AS-BUILT CHANGES ONLY

WKE JAN 07

WKE JAN 07

PROJECT ID: 2140-08-73 WITH: N/A

COUNTY: MILWAUKEE

JAN 07
ORDER OF SHEETS

Section No.	1	Title
Section No.	2	Typical Sections and Details (Includes Erosion Control Plans)
Section No.	3	Estimate of Quantities
Section No.	3	Miscellaneous Quantities
Section No.	4	Right of Way Plat
Section No.	5	Plan and Profile
Section No.	6	Standard Detail Drawings
Section No.	7	Sign Plates
Section No.	8	Structure Plans
Section No.	9	Computer Earthwork Data
Section No.	9	Cross Sections

1150

TOTAL SHEETS = 1150

STATE PROJECT	FEDERAL PROJECT	
	STP 2008010	CONTRACT
2140-08-73	STP 2008010	1

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

PLAN OF PROPOSED IMPROVEMENT

NORTH 76TH STREET, CITY OF MILWAUKEE

CLINTON AVENUE - WEST COUNTY LINE ROAD

STH 181

MILWAUKEE COUNTY

PRIME CONTRACTOR: ZIGNEGO CO.
SUBCONTRACTORS:
ARROWCRETE CONST.
C+L CONTRACTING
CENTURY FENCE
COMMUNITY ENGR. BLDG SVCS.
CON-COR
DAKOTA INTERTEK
J+A POHL, INC
KUEHNE CO.
McDOWELL CONST.
MEGA RENTALS
OUTDOOR LIGHTING
PAYNE + DOLAN
QC TECH
WILLCOMM EXC + GRADING
ZENITH TECH



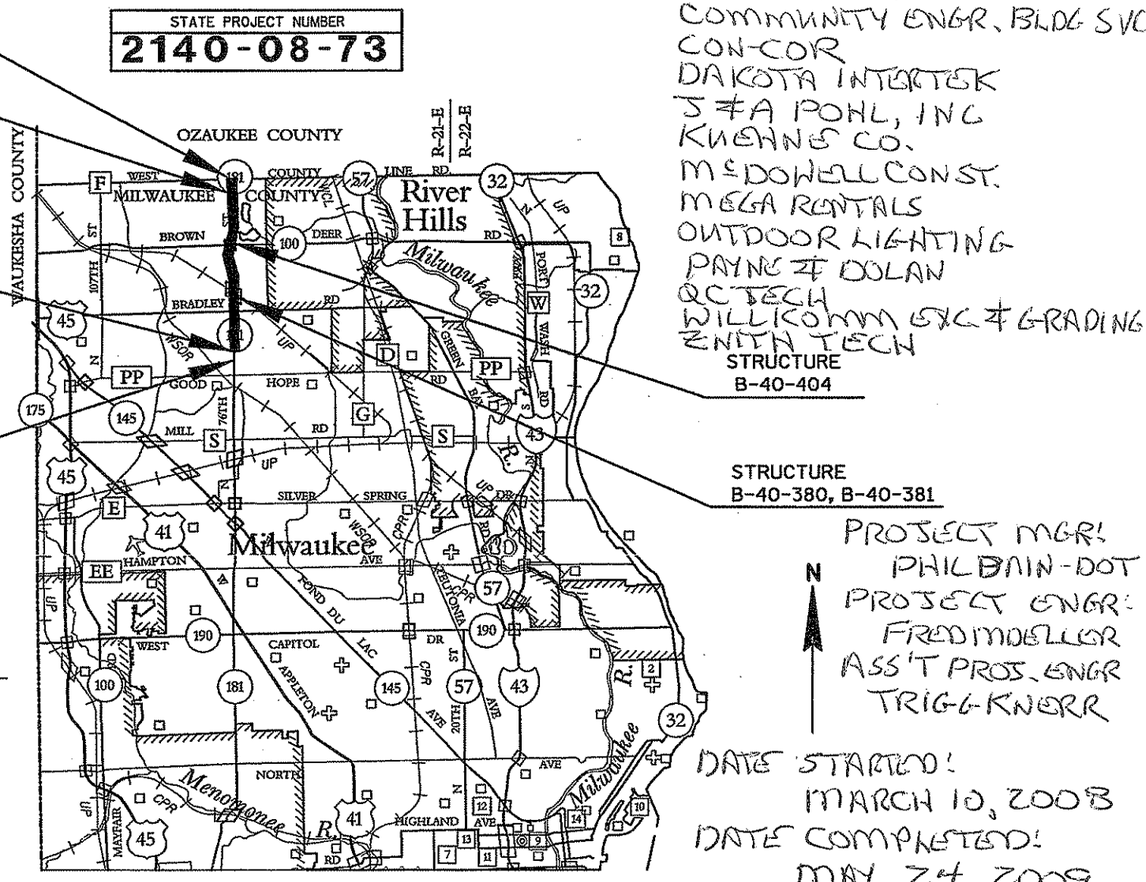
END CONSTRUCTION
STA. 284+79.21

END PROJECT
STA. 281+00.00

BEGIN PROJECT
STA. 140+00.00
Y = 341,097.96
X = 580,448.22

BEGIN CONSTRUCTION
STA. 138+25.00

STATE PROJECT NUMBER
2140-08-73



STRUCTURE
B-40-404

STRUCTURE
B-40-380, B-40-381

N

LAYOUT
SCALE 0 1 MI.

TOTAL NET LENGTH OF CENTERLINE = 2.670 MI.

Coordinates on this plan are referenced to the Wisconsin County Coordinate System (WCCS), Milwaukee County NAD83 (91).

Elevations are NGVD29

PROJECT MGR: PHIL BAIN - DOT
PROJECT ENGR: FRED MOELLER
ASS'T PROJ. ENGR TRIG KNERR

DATE STARTED: MARCH 10, 2008
DATE COMPLETED: MAY 24, 2009
CONTRACT AMOUNT $11,789,752.09

DESIGN DESIGNATION

A.A.D.T. (2008)	= 37,340
A.A.D.T. (2028)	= 40,955
D.H.V. (2028)	= 9.9%
D.D. (2028)	= 58/42
T.	= 5.2%
DESIGN SPEED	= 45 MPH SOUTH OF DEAN/ 50 MPH NORTH OF DEAN
ESALS	= 2,635,300

CONVENTIONAL SYMBOLS

PLAN		PROFILE	
CORPORATE LIMITS		GRADE LINE	
PROPERTY LINE		ORIGINAL GROUND	
LOT LINE		MARSH OR ROCK PROFILE (To be noted as such)	ROCK
LIMITED HIGHWAY EASEMENT		SPECIAL DITCH	LABEL
EXISTING RIGHT OF WAY		GRADE ELEVATION	95.36
PROPOSED OR NEW R/W LINE		CULVERT (Profile View)	
SLOPE INTERCEPT		UTILITIES	
REFERENCE LINE		ELECTRIC	E
EXISTING CULVERT		FIBER OPTIC	FO
PROPOSED CULVERT (Box or Pipe)		GAS	G (SIZE)
COMBUSTIBLE FLUIDS	CAUTION	SANITARY SEWER	SAN
		STORM SEWER	SS
		TELEPHONE	T
MARSH AREA		WATER	W
		UTILITY PEDESTAL	
		POWER POLE	
WOODED OR SHRUB AREA		TELEPHONE POLE	

ORIGINAL PLANS PREPARED BY:

STRAND ASSOCIATES, INC. ENGINEERS
910 WEST WINGRA DRIVE
MADISON, WISCONSIN 53715
(608) 251-4843

WISCONSIN
BRIAN M. ANDREAS
E-28413
Madison, WI
PROFESSIONAL ENGINEER
Brian M. Andreas
7/25/07

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

PREPARED BY	
Surveyor	STRAND ASSOCIATES, INC.
Designer	STRAND ASSOCIATES, INC.
Project Manager	DEBRA WEBB-FRANSEEN
Regional Examiner	Carl W. Buyanovski
Regional Supervisor	DAVID LARSON
C.O. Examiner	Carl W. Buyanovski

APPR: 7-30-07
DATE: 7-30-07
IE DEPARTMENT
Dave Larson
(Signature)

E

2

GENERAL NOTES

NO TREES OR SHRUBS ARE TO REMOVED WITHOUT APPROVAL OF THE ENGINEER.

THE LOCATIONS OF EXISTING AND PROPOSED UTILITY INSTALLATIONS AS SHOWN ON THE PLANS ARE APPROXIMATE. THERE MAY BE OTHER UTILITY INSTALLATIONS WITHIN THE PROJECT AREA THAT ARE NOT SHOWN.

EROSION CONTROL FEATURES AS SHOWN ON THE PLANS ARE SUGGESTED LOCATIONS. EXACT LOCATIONS WILL BE DETERMINED BY THE CONTRACTORS ECIP AND APPROVED BY THE ENGINEER IN CONSULTATION WITH THE DNR.

ALL SIGN LOCATIONS SHALL BE REVIEWED BY THE ENGINEER PRIOR TO INSTALLATION.

ANY CONFLICTING SIGN SHALL BE COVERED OR REMOVED.

DISTURBED AREAS WITHIN THE RIGHT-OF-WAY SHALL BE RESTORED AS DIRECTED BY THE ENGINEER.

MISCELLANEOUS REMOVAL ITEMS SHALL BE REMOVED TO AN EXISTING JOINT, SAWCUT WHERE SHOWN ON THE PLANS, OR AS DIRECTED BY THE ENGINEER.

THE LOCATION AND WIDTH OF DRIVEWAYS WILL BE DETERMINED BY THE ENGINEER.

RADIUS DIMENSIONS FOR THE CURB AND GUTTER ARE TO THE FLAG LINE UNLESS OTHERWISE NOTED.

STORM SEWER PIPE ELEVATIONS, LENGTH, AND LOCATIONS AS SHOWN ON THE PLANS MAY BE ADJUSTED TO FIT FIELD CONDITIONS.

EXISTING PIPE CULVERT AND CONCRETE BOX CULVERT SIZES SHOWN ARE APPROXIMATE AND THE CONTRACTOR WILL BASE IT'S BID ON THE ACTUAL FIELD SIZES.

A SAWED JOINT WILL BE REQUIRED WHERE NEW PAVEMENT IS TO MEET AN EXISTING PAVED SURFACE.

FILL QUANTITIES HAVE BEEN EXPANDED BY A FACTOR OF 1.25 ON YARDAGE SHEETS.

6½-INCH HMA PAVEMENT SHALL BE CONSTRUCTED WITH TWO 2¼-INCH LOWER LAYERS AND ONE 2-INCH UPPER LAYER.

5-INCH ASPHALTIC SURFACE TEMPORARY SHALL BE CONSTRUCTED WITH ONE 2¾-INCH LOWER LAYER AND ONE 2¼-INCH UPPER LAYER

THE PROJECT LIMITS SHALL BE THE LIMITS FOR EARTHWORK BALANCE POINT.

SECTION 2 ORDER OF SHEETS

GENERAL NOTES
PROJECT OVERVIEW
TYPICAL SECTIONS
CONSTRUCTION DETAILS
PLAN DETAILS
EROSION CONTROL
STORM SEWER
SIGN REMOVAL DETAIL SHEETS
PERMANENT SIGNING
LIGHTING CONDUIT PLAN
TRAFFIC SIGNALS
PAVEMENT MARKING
TRUCK DETOUR ROUTE
CONSTRUCTION STAGING TYPICALS
CONSTRUCTION DETAILS - STAGING
CONSTRUCTION STAGING SHEETS
ALIGNMENT DETAILS
CONTROL POINT DATA SHEETS

ABBREVIATIONS

ABUT.	ABUTMENT
A.D.T.	AVERAGE DAILY TRAFFIC
B.F.	BACK FACE
B.M.	BENCH MARK
B.O.C.	BACK OF CURB
CTR.	CENTER
C.L.	CENTERLINE
D.	LANE DISTRIBUTION
D.H.V.	DESIGN HOURLY VOLUME
DIA.	DIAMETER
DIM.	DIMENSION
EL. OR ELEV.	ELEVATION
EXC.	EXCAVATION
F.F.	FRONT FACE
MAX.	MAXIMUM
MIN.	MINIMUM
NORM.	NORMAL
O.H.	OVERHEAD POWER LINE
P.O.L.	POINT ON LINE
REQ'D.	REQUIRED
RDWY.	ROADWAY
R.H.F.	RIGHT HAND FORWARD
S.E.	SUPERELEVATION
SPA.	SPACE
STA.	STATION
SYM.	SYMMETRICAL
T.	PERCENT TRUCKS
TYP.	TYPICAL
V.	DESIGN SPEED

WISDOT REGION CONTACT

DEBRA WEBB-FRANSEEN
WISDOT NORTH CENTRAL REGION
WISCONSIN RAPIDS OFFICE
1681 SECOND AVENUE SOUTH
WISCONSIN RAPIDS, WI 54495
PH: (715) 421-8301

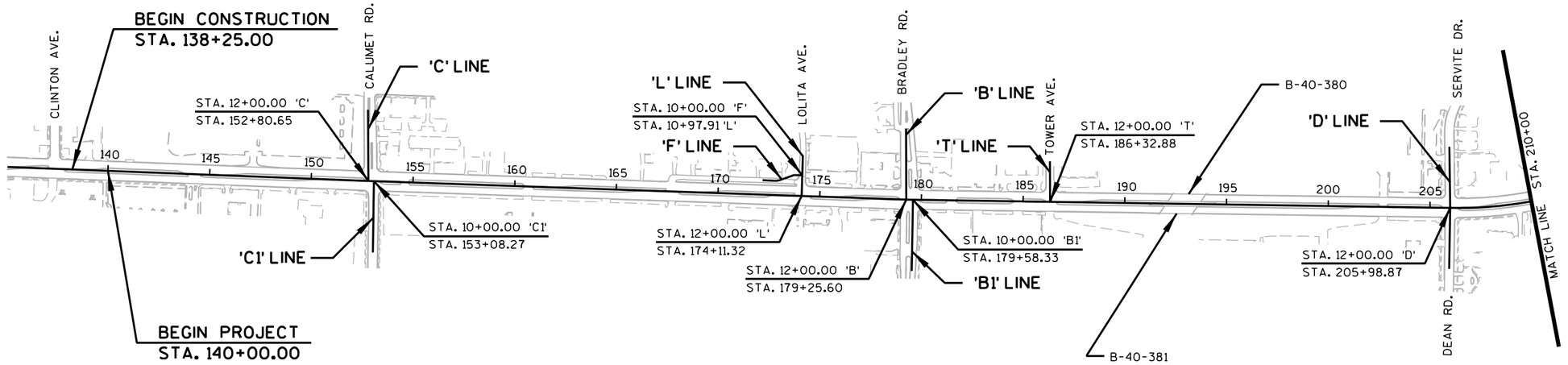
WISDNR CONTACT

MIKE THOMPSON
WISCONSIN DEPARTMENT OF NATURAL RESOURCES
SOUTHEASTERN DISTRICT
2300 N. DR. MARTIN LUTHER KING JR. DR.
MILWAUKEE, WI 53212
PH: (414) 263-8648

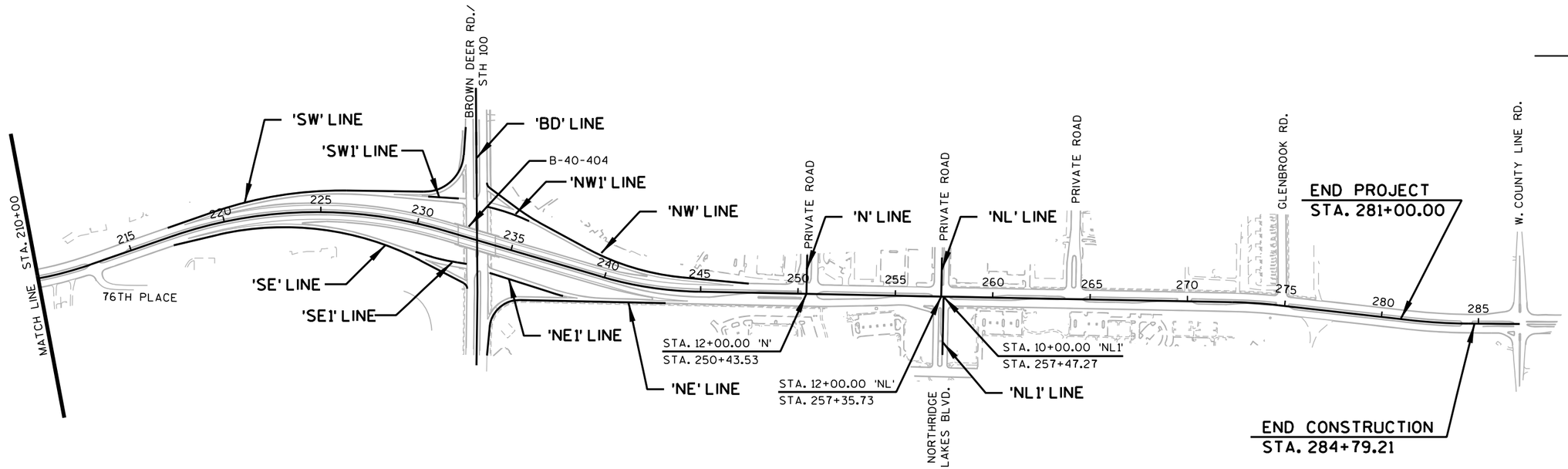
DIGGERS HOTLINE
Toll Free (800) 242-8511
Milwaukee Area (414) 259-1181
Hearing Impaired TDD (800) 542-2289
www.DiggersHotline.com

UTILITIES

UTILITY OR MUNICIPALITY	ADDRESS	CONTACT	UTILITY TYPE
WE ENERGIES	5400 N. GREEN BAY AVENUE MILWAUKEE, WI 53209 PH: (414) 540-5782 (CURT DAWKINS) PH: (414) 540-5708 (PAUL OSMANSKI)	CURT DAWKINS PAUL OSMANSKI	ELECTRIC GAS
SPRINT COMMUNICATIONS	5600 N. RIVER RD., SUITE 500 ROSEMONT, IL 60018 PH: (800) 788-0751	JIM BURTON	COMMUNICATIONS
AT&T	7721 W. FOND DU LAC AVE., 1ST FLOOR MILWAUKEE, WI 53218 PH: (414) 535-7420	STEVE UBERT	COMMUNICATIONS
TIME WARNER CABLE	1320 N. MARTIN LUTHER KING JR. DR. MILWAUKEE, WI 53212 PH: (414) 908-4890	CHRISTOPHER CROSBY	COMMUNICATIONS
NORLIGHT TELECOMMUNICATIONS	13935 BISHOPS DR. BROOKFIELD, WI 53005 PH: (262) 792-7219	PAUL NEUMANN	COMMUNICATIONS
AT&T LOCAL NETWORK SERVICES-NORTHWIND TECHNICAL SERVICES	W307 N1499 GOLF ROAD DELAFIELD, WI 53018 PH: (262) 646-5602	DONALD DIETSCH	COMMUNICATIONS
MILWAUKEE METROPOLITAN SEWERAGE DISTRICT	260 W. SEEBOTH ST. MILWAUKEE, WI 53204-1446 PH: (414) 225-2143	DEBRA JENSEN	SANITARY SEWER
MILWAUKEE WATER WORKS	3850 N 35TH ST., SUITE 101 MILWAUKEE, WI 53216 PH: (414) 286-6304	BEN GLATZEL	WATER
WISDOT SIGNALS	WEST ALLIS SERVICE CENTER 935 S. 60TH ST. WEST ALLIS, WI 53214 PH: (414) 266-1162	DENNIS CAULEY	WISDOT SIGNALS
MCLEOD USA	1858 WRIGHT ST. MADISON, WI 53704 PH: (608) 819-5007	JEFFREY WISWELL	COMMUNICATIONS
ATC	N19 W23993 RIDGEVIEW PARKWAY WEST WAUKESHA, WI 53188 PH: (262) 506-6864	ANDY EBERHARDT	ELECTRIC TRANSMISSION
CITY OF MILWAUKEE	841 N. BROADWAY MILWAUKEE, WI 53202 PH: (414) 286-5970	ROGER REED	SANITARY & STORM SEWER STREET LIGHTING UNDERGROUND CONDUIT
MILWAUKEE COUNTY HIGHWAY	10320 WATERTOWN PLANK ROAD WAUTOSA, WI 53226 PH: (414) 257-6596	GEORGE TORRES	COUNTY HIGHWAY
MILWAUKEE COUNTY TRANSIT SYSTEM	1942 NORTH 17TH STREET MILWAUKEE, WI 53205 PH: (414) 343-1764	DAVE ZIAREK	TRANSIT
UNION PACIFIC RAILROAD	301 W. LAKE STREET NORTHLAKE, IL 60164 PH: (708) 649-5210	RICHARD ELLISON	RAILROAD
WISDOT TRAFFIC LIGHTING	141 NW BARSTOW PO BOX 798 WAUKESHA, WI 53187 PH: (262) 521-5346	CHARLES LANDEY	WISDOT TRAFFIC LIGHTING
SEWRPC	W239 N1812 ROCKWOOD DR. PO BOX 1607 WAUKESHA, WI 53187-1607 PH: (262) 547-6721	DON SIMON	PLANNING COMMISSION



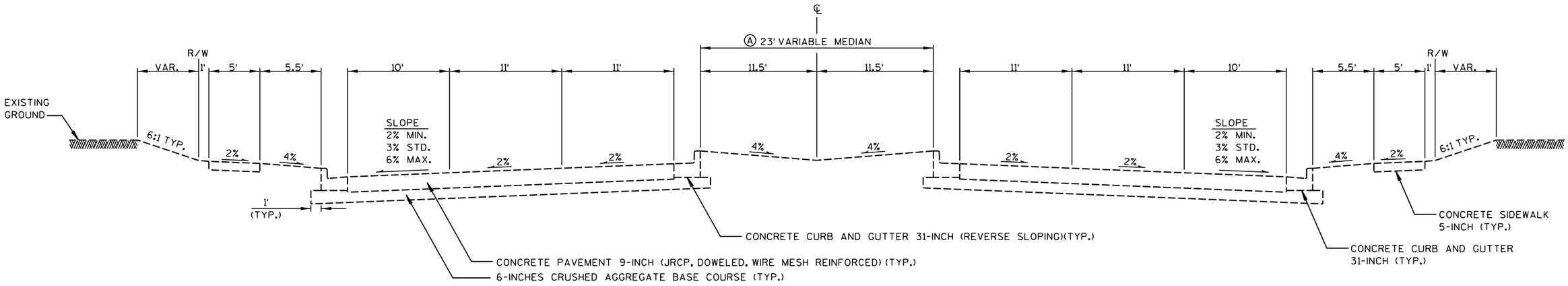
CITY OF MILWAUKEE



CITY OF MILWAUKEE

PROJECT NO: 2140-08-73	HWY: STH 181	COUNTY: MILWAUKEE	PROJECT OVERVIEW	SHEET 3	E

2

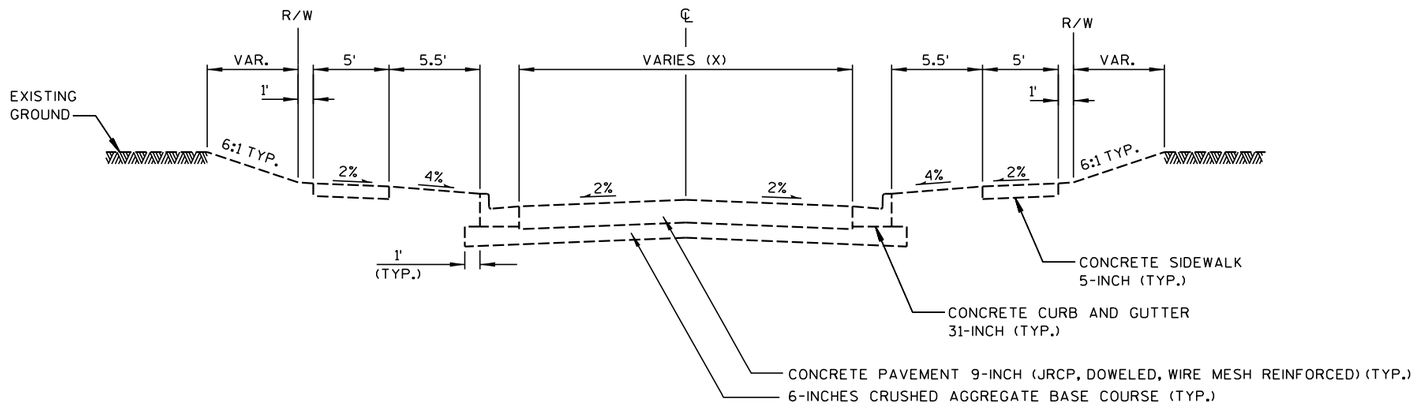


TYPICAL EXISTING SECTION
STH 181

Ⓐ GRASS MEDIAN (TYP.)

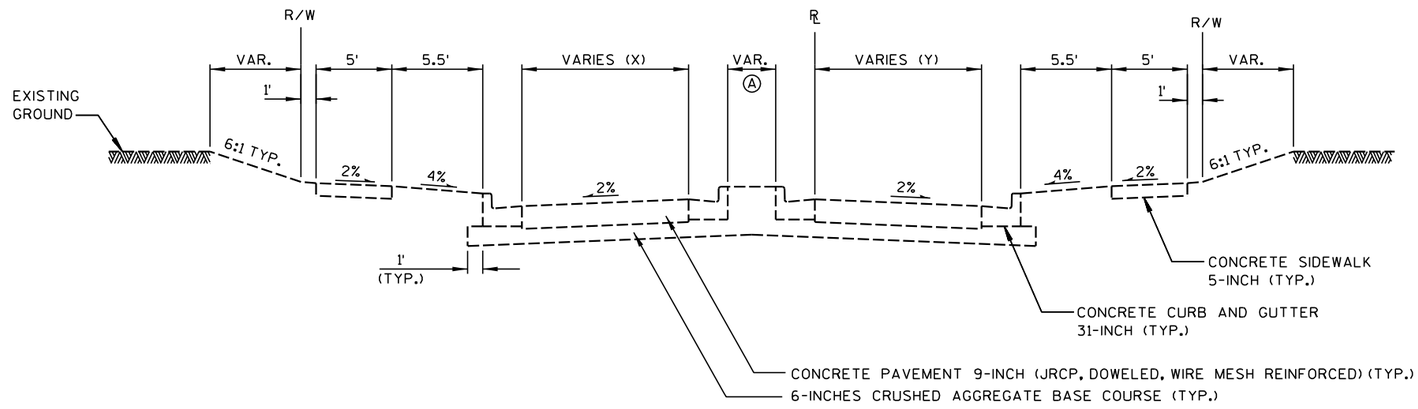
5-INCH CONCRETE SIDEWALK WHEN MEDIAN IS LESS THAN 4' WIDE

PROJECT NO:2140-08-73	HWY: STH 181	COUNTY: MILWAUKEE	EXSITING TYPICAL SECTIONS	SHEET 4	E



TYPICAL EXISTING SECTION

LOLITA AVE. (X=30')
TOWER AVE. (X=37')
SERVITE DR./ DEAN RD. (X=44')
N. 76TH PL. (X=24')
GLENBROOK RD. (X=40')



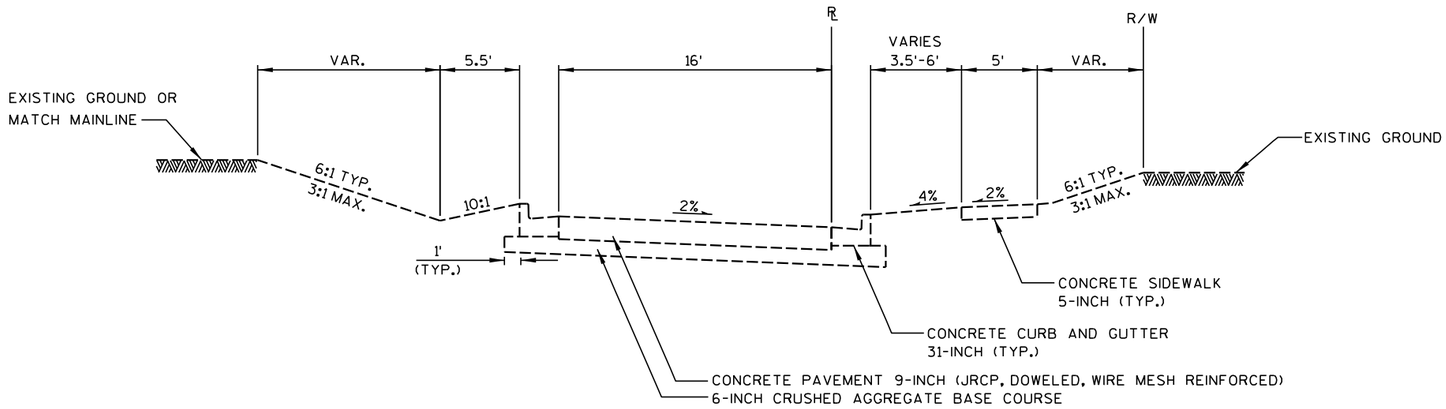
TYPICAL EXISTING SECTION

CALUMET RD. (X=31', Y=20')
BRADLEY RD. (X=38', Y=28')
PRIVATE ROAD - STA. 250+44 LT (X=32', Y=32')
PRIVATE ROAD - STA. 257+36 LT (X=24', Y=36')
NORTHRIDGE LAKES BLVD. (X=24', Y=24')
PRIVATE ROAD - STA. 264+00 LT (X=24', Y=24')

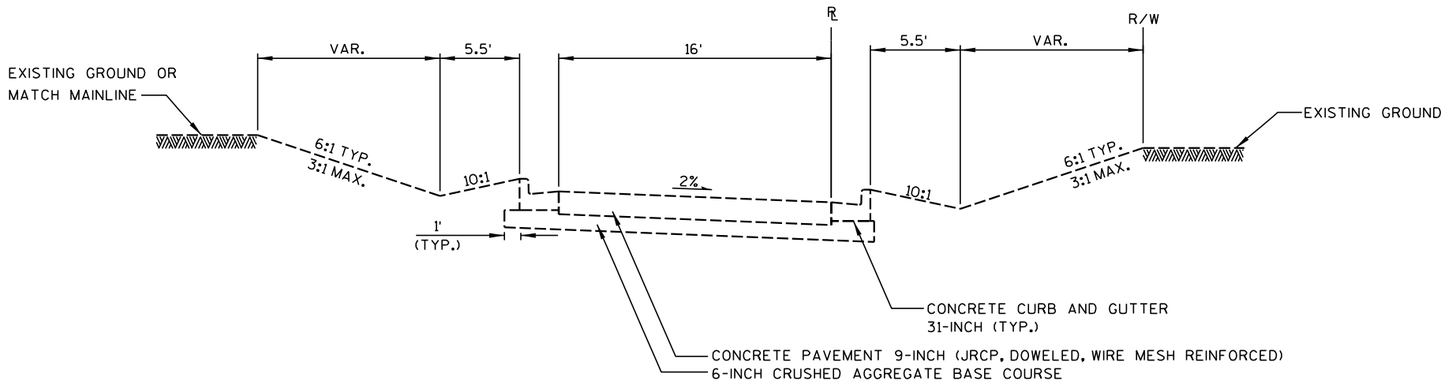
Ⓐ GRASS MEDIAN (TYP.)

5-INCH CONCRETE SIDEWALK WHEN MEDIAN IS LESS THAN 4' WIDE

PROJECT NO: 2140-08-73	HWY: STH 181	COUNTY: MILWAUKEE	EXISTING TYPICAL SECTIONS	SHEET 5	E



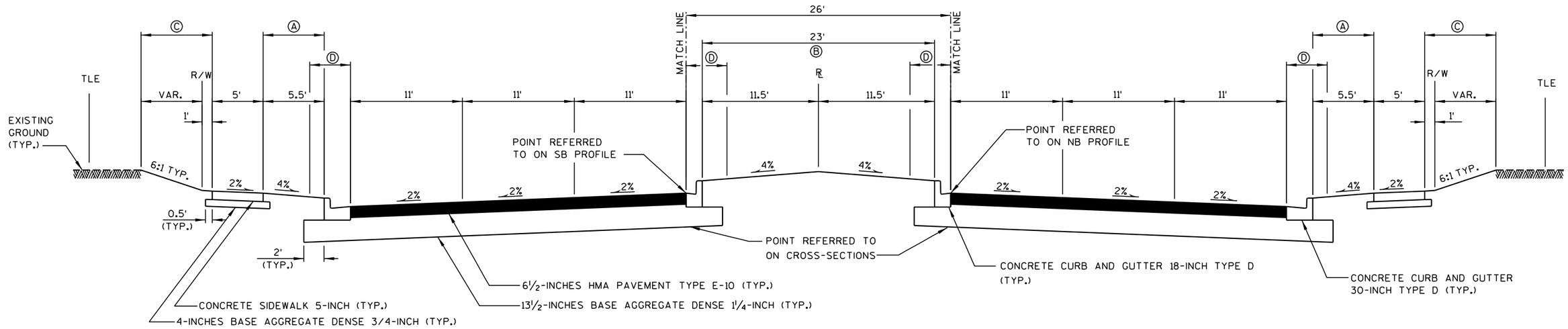
TYPICAL EXISTING SECTION
BROWN DEER ROAD/STH 100 RAMPS
NE RAMP



TYPICAL EXISTING SECTION
BROWN DEER ROAD/STH 100 RAMPS
① NW RAMP
① SW RAMP
SE RAMP

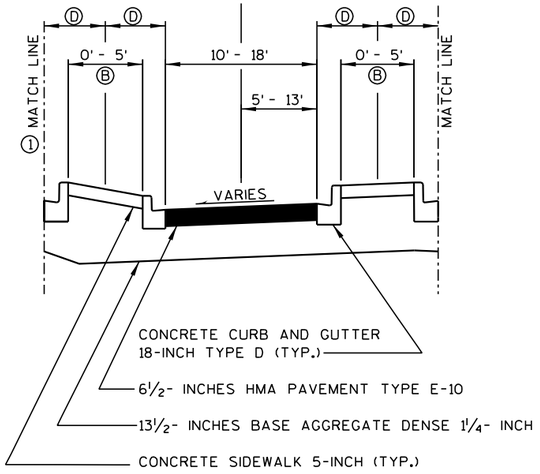
① REVERSED TYPICAL EXISTING SECTION

PROJECT NO:2140-08-73	HWY: STH 181	COUNTY: MILWAUKEE	EXISTING TYPICAL SECTIONS	SHEET 6	E

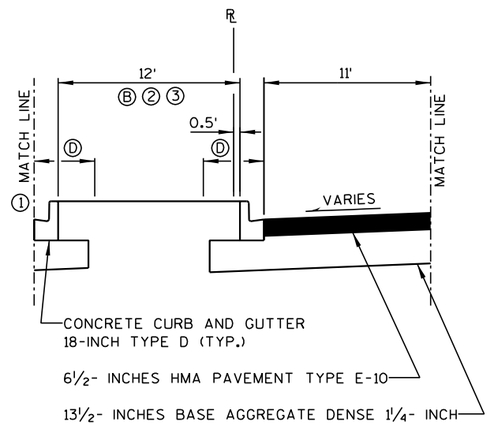


TYPICAL FINISHED SECTION
STH 181

STA. 140+00 - STA. 204+92



STA. 144+30 - STA. 145+70
STA. 150+12 - STA. 152+71
STA. 153+28 - STA. 154+68
STA. 172+45- STA. 173+93
STA. 174+40 - STA. 175+40
STA. 177+20 - STA. 178+96
STA. 179+85 - STA. 181+42
STA. 186+60 - STA. 187+97
STA. 204+66 - STA. 205+70



② ③ STA. 159+06 - STA. 160+28
STA. 161+03 - STA. 162+25
STA. 166+16 - STA. 167+40
STA. 168+20 - STA. 169+36
STA. 182+52 - STA. 183+34
STA. 184+37 - STA. 184+98
STA. 185+22 - STA. 185+91
STA. 201+11 - STA. 202+35

① REVERSED FOR SOUTHBOUND LEFT TURN LANE(S)

② VARIES FROM 5.7' TO 12' FROM STA. 184+37 TO STA. 184+98

③ VARIES FROM 5.0' TO 12' FROM STA. 185+22 TO STA. 185+94

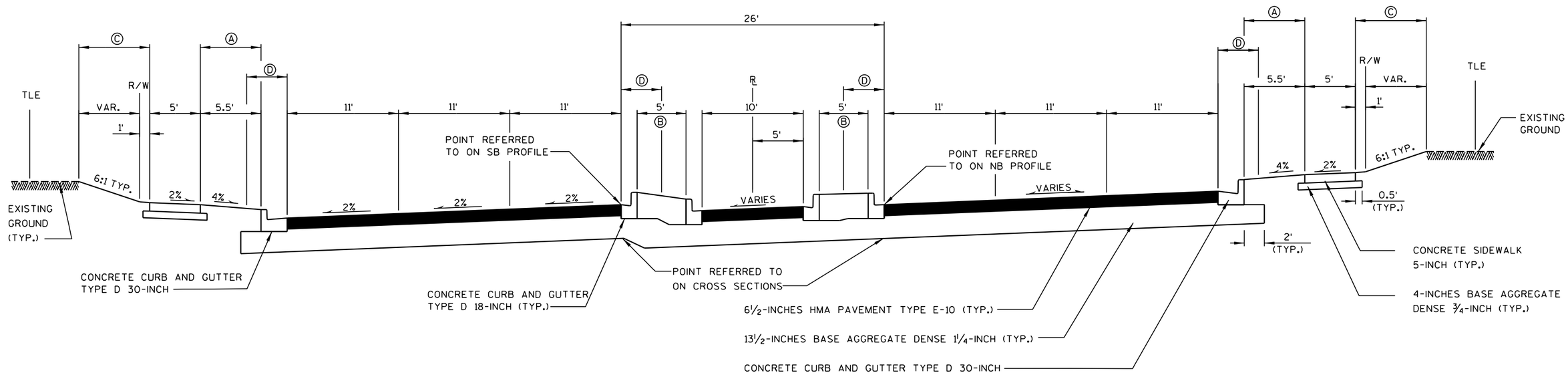
Ⓐ TOPSOIL; FERTILIZER TYPE B; SEEDING MIXTURE NO. 30; AND EROSION MAT URBAN CLASS I TYPE A

Ⓑ SALVAGE TOPSOIL; FERTILIZER TYPE B; SEEDING MIXTURE NO. 30; AND EROSION MAT URBAN CLASS I TYPE A WHEN MEDIAN IS GREATER THAN 5' WIDE (B.O.C.TO B.O.C.)

CONCRETE SIDEWALK 5-INCH WHEN MEDIAN IS 5' OR LESS (B.O.C. TO B.O.C.)

Ⓒ TOPSOIL; FERTILIZER TYPE B; SEEDING MIXTURE NO. 30; AND MULCHING

Ⓓ 4' LATERAL CLEARANCE



TYPICAL FINISHED SECTION
STH 181

STA. 204+92 - STA. 206+12

Ⓐ TOPSOIL; FERTILIZER TYPE B; SEEDING MIXTURE NO. 30; AND EROSION MAT URBAN CLASS I TYPE A

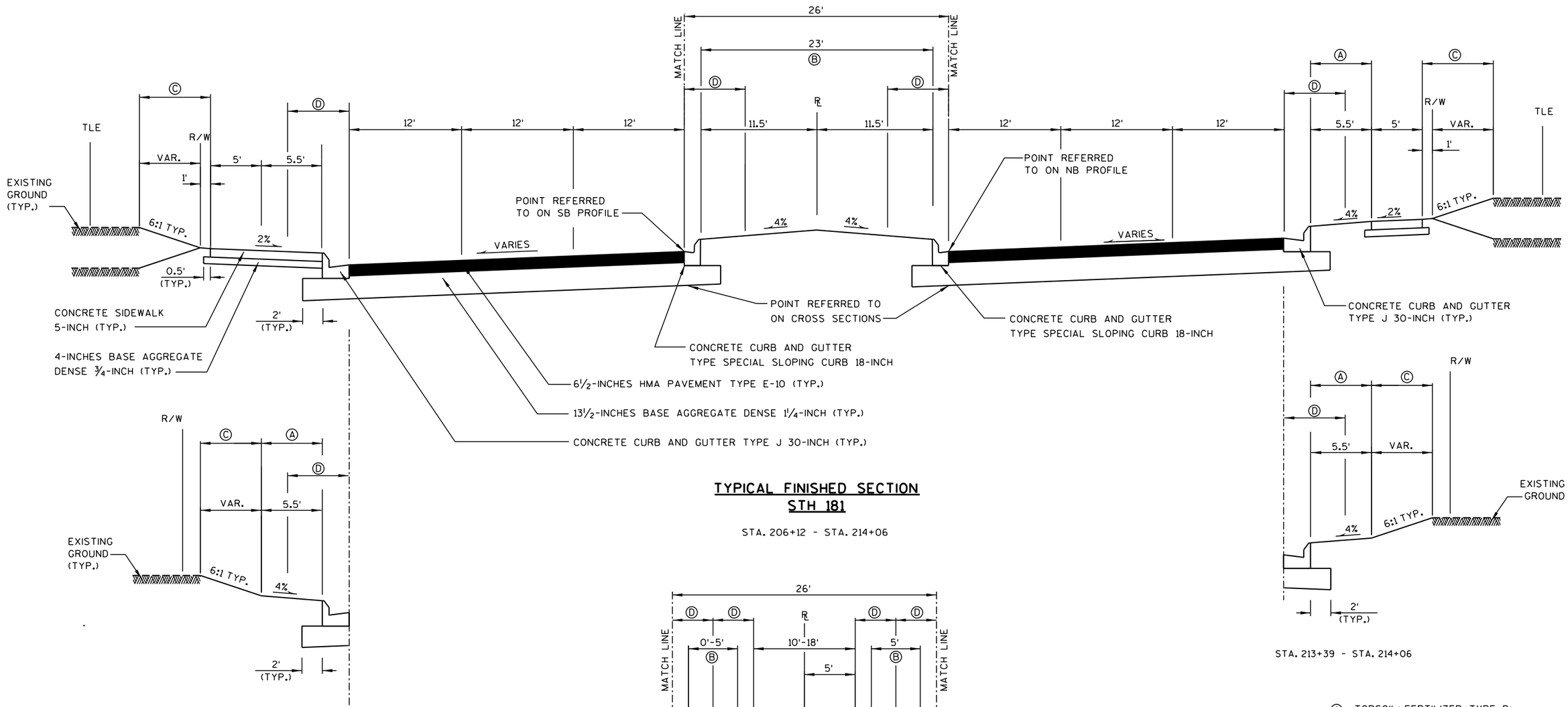
Ⓑ SALVAGE TOPSOIL; FERTILIZER TYPE B; SEEDING MIXTURE NO. 30; AND EROSION MAT URBAN CLASS I TYPE A WHEN MEDIAN IS GREATER THAN 5' WIDE (B.O.C.TO B.O.C.)

CONCRETE SIDEWALK 5-INCH WHEN MEDIAN IS 5' OR LESS (B.O.C. TO B.O.C.)

Ⓒ TOPSOIL; FERTILIZER TYPE B; SEEDING MIXTURE NO. 30; AND MULCHING

Ⓓ 4' LATERAL CLEARANCE

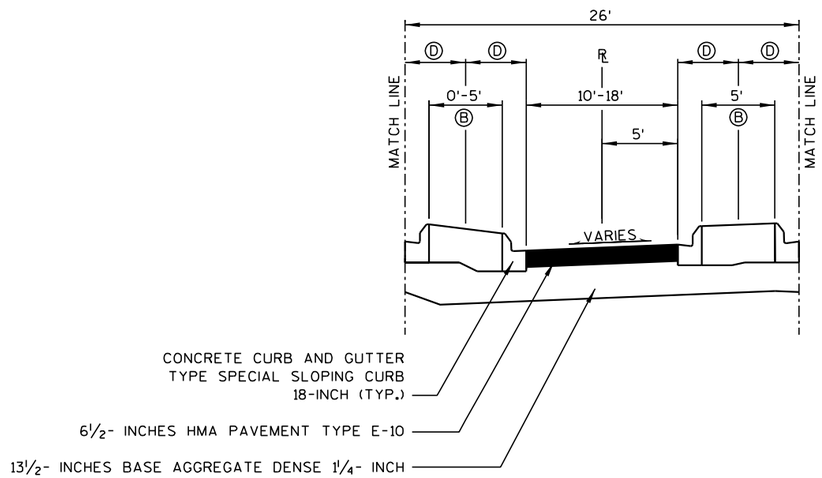
PROJECT NO: 2140-08-73	HWY: STH 181	COUNTY: MILWAUKEE	TYPICAL SECTIONS	SHEET 8	E



TYPICAL FINISHED SECTION STH 181

STA. 206+12 - STA. 214+06

STA. 206+73 - STA. 214+06



STA. 206+27 - STA. 207+64
STA. 213+20 - STA. 214+06

STA. 213+39 - STA. 214+06

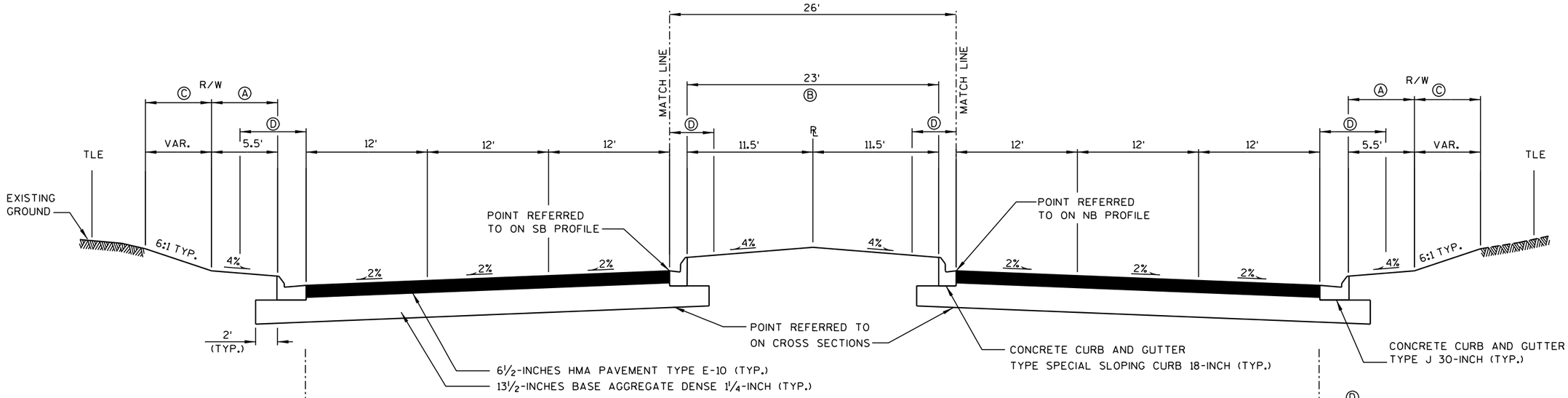
Ⓐ TOPSOIL; FERTILIZER TYPE B; SEEDING MIXTURE NO. 30; AND EROSION MAT URBAN CLASS I TYPE A

Ⓑ SALVAGE TOPSOIL; FERTILIZER TYPE B; SEEDING MIXTURE NO. 30; AND EROSION MAT URBAN CLASS I TYPE A WHEN MEDIAN IS GREATER THAN 5' WIDE (B.O.C.TO B.O.C.)

CONCRETE SIDEWALK 5-INCH WHEN MEDIAN IS 5' OR LESS (B.O.C. TO B.O.C.)

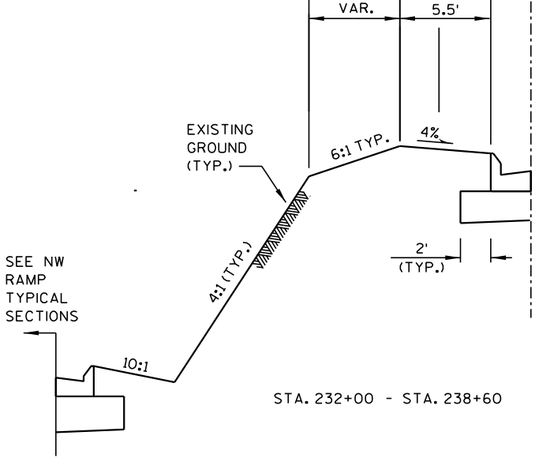
Ⓒ TOPSOIL; FERTILIZER TYPE B; SEEDING MIXTURE NO. 30; AND MULCHING

Ⓓ 6' LATERAL CLEARANCE

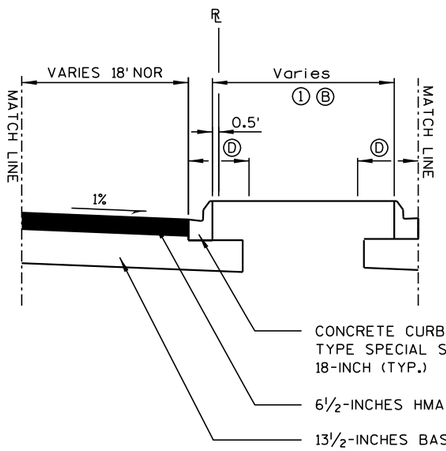


TYPICAL FINISHED SECTION
STH 181

STA. 214+06 - STA. 215+95
STA. 232+00 - STA. 238+60

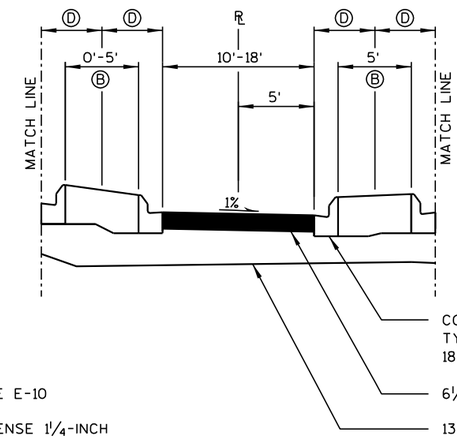


STA. 232+00 - STA. 238+60

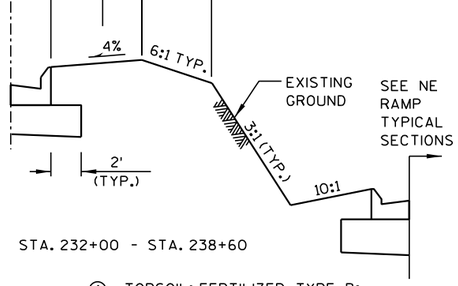


Ⓘ VARIES FROM 5' TO 23' FROM STA. 214+59 TO STA. 217+12

STA. 214+59 - STA. 217+12



STA. 214+06 - STA. 214+59



STA. 232+00 - STA. 238+60

Ⓐ TOPSOIL; FERTILIZER TYPE B; SEEDING MIXTURE NO. 30; AND EROSION MAT URBAN CLASS I TYPE A

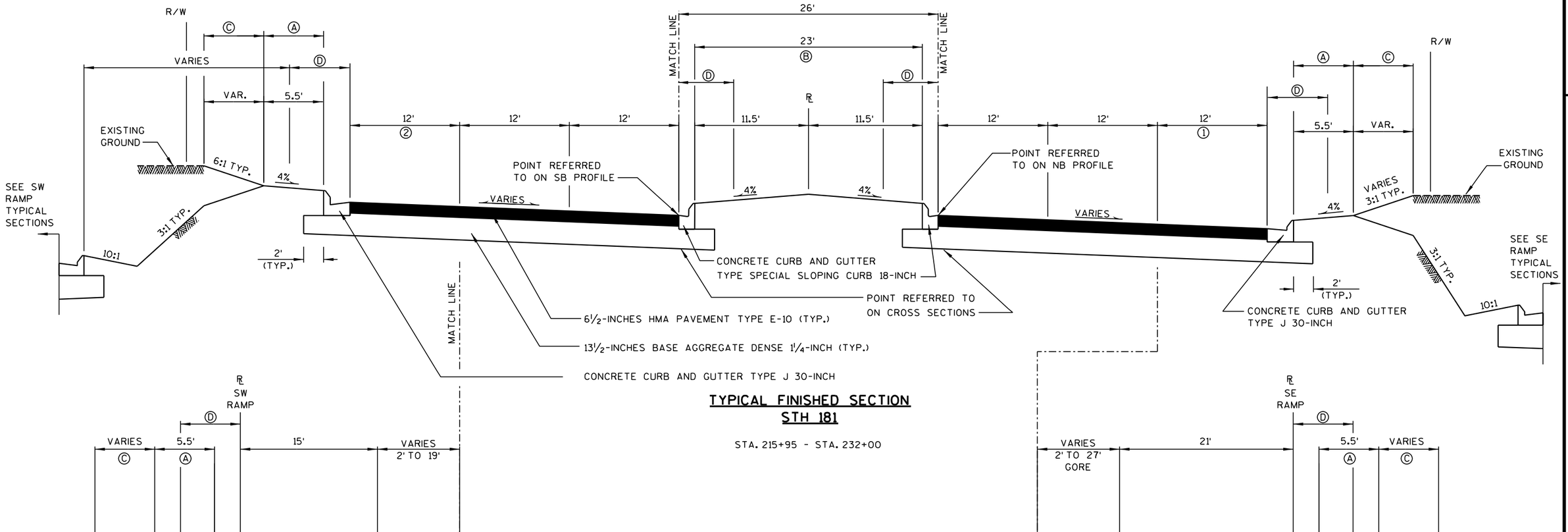
Ⓑ SALVAGE TOPSOIL; FERTILIZER TYPE B; SEEDING MIXTURE NO. 30; AND EROSION MAT URBAN CLASS I TYPE A WHEN MEDIAN IS GREATER THAN 5' WIDE (B.O.C. TO B.O.C.)

CONCRETE SIDEWALK 5-INCH WHEN MEDIAN IS 5' OR LESS (B.O.C. TO B.O.C.)

Ⓒ TOPSOIL; FERTILIZER TYPE B; SEEDING MIXTURE NO. 30; AND MULCHING

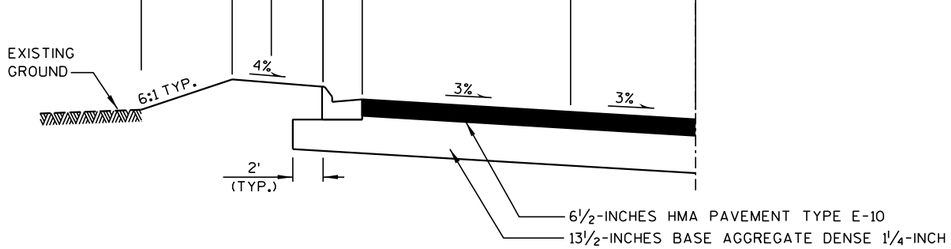
Ⓓ 6' LATERAL CLEARANCE

PROJECT NO: 2140-08-73	HWY: STH 181	COUNTY: MILWAUKEE	TYPICAL SECTIONS	SHEET 10	E

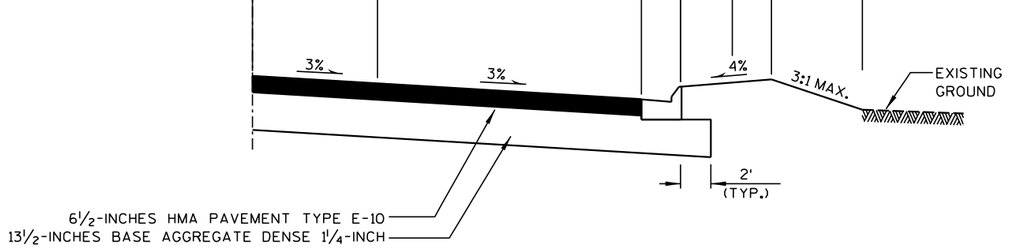


TYPICAL FINISHED SECTION STH 181

STA. 215+95 - STA. 232+00



STA. 218+65.52 - STA. 220+43.54



STA. 220+86.67- STA. 224+64.25

① VARIES FROM 12' TO 23' FROM STA. 217+45.01 TO STA. 220+86.67

VARIES FROM 18' TO 12' FROM STA. 224+64.25 TO 225+84.25

② VARIES FROM 12' TO 17' FROM STA. 217+13.59 TO STA. 218+65.52

VARIES FROM 3' TO 12' FROM STA. 220+43.54 TO STA. 223+13.54

Ⓐ TOPSOIL; FERTILIZER TYPE B; SEEDING MIXTURE NO. 30; AND EROSION MAT URBAN CLASS I TYPE A

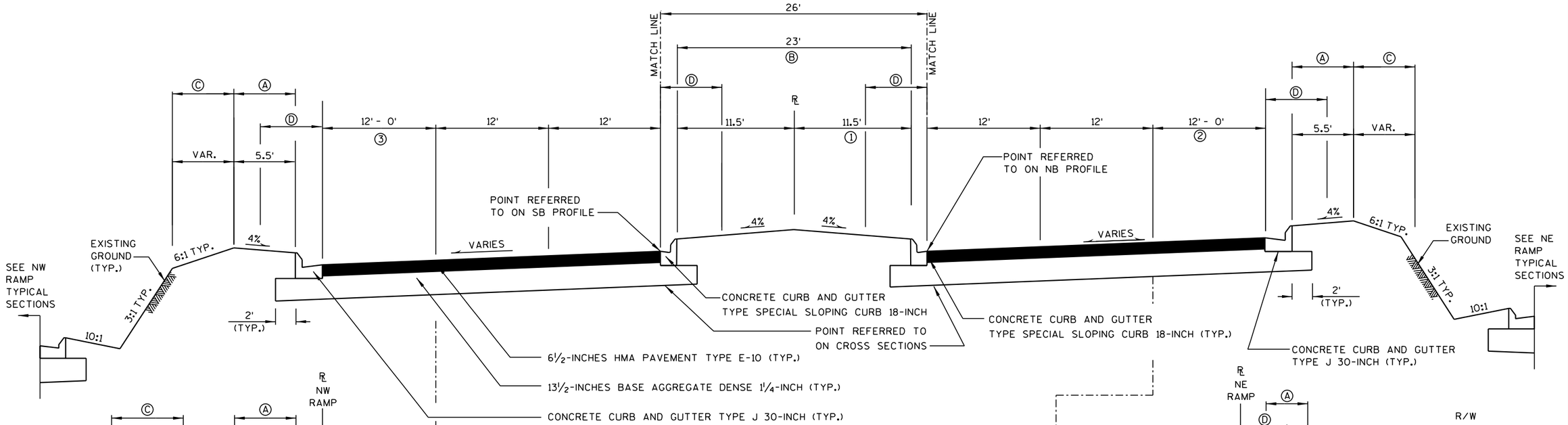
Ⓑ SALVAGE TOPSOIL; FERTILIZER TYPE B; SEEDING MIXTURE NO. 30; AND EROSION MAT URBAN CLASS I TYPE A WHEN MEDIAN IS GREATER THAN 5' WIDE (B.O.C.TO B.O.C.)

CONCRETE SIDEWALK 5-INCH WHEN MEDIAN IS 5' OR LESS (B.O.C. TO B.O.C.)

Ⓒ TOPSOIL; FERTILIZER TYPE B; SEEDING MIXTURE NO. 30; AND MULCHING

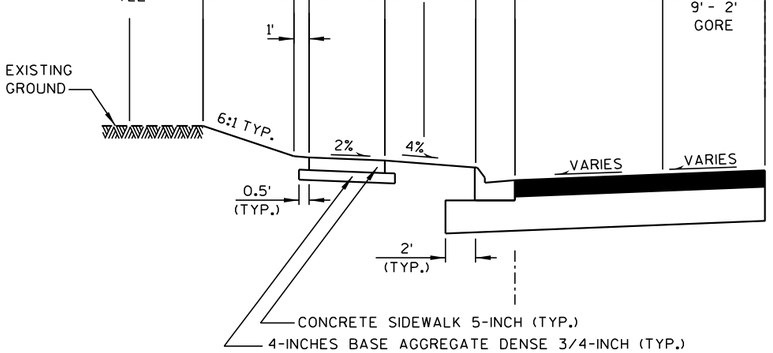
Ⓓ 6' LATERAL CLEARANCE

PROJECT NO: 2140-08-73	HWY: STH 181	COUNTY: MILWAUKEE	TYPICAL SECTIONS	SHEET 11	E

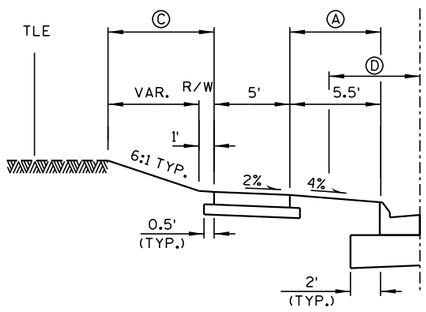


TYPICAL FINISHED SECTION STH 181

STA. 238+60 - STA. 246+14



STA. 244+62.64 - STA. 245+59



STA. 245+59 - STA. 246+14

① VARIES FROM 11.5' TO 25.5' FROM STA. 239+84.19 TO STA. 244+58.55

VARIES FROM 25.4' TO 9.6' FROM STA. 244+80.42 TO STA. 246+14.00

② VARIES FROM 12' TO 3' FROM STA. 239+64.74 TO STA. 242+28.90

0' STA. 244+28.90 TO STA. 243+72.58

VARIES FROM 14' TO 1.25' FROM STA. 243+72.58' TO STA. 246+14

③ VARIES FROM 12' TO 0' FROM STA. 238+64.19 TO STA. 239+84.18

0' STA. 239+84.18 TO STA. 245+59

VARIES FROM 23' TO 18.93' FROM STA. 245+59 TO STA. 246+14

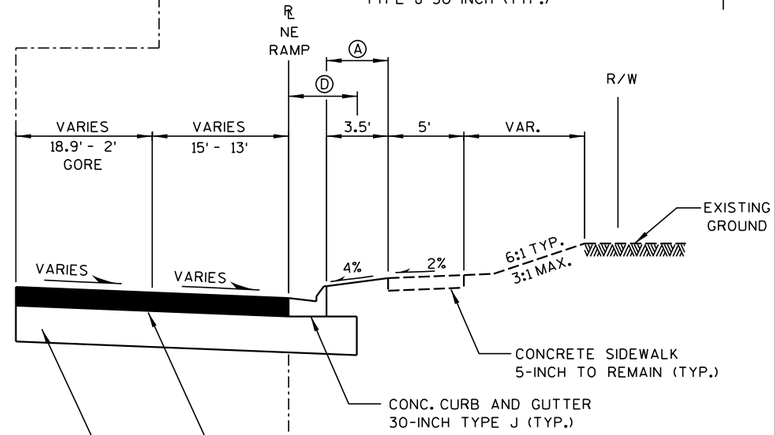
Ⓐ TOPSOIL; FERTILIZER TYPE B; SEEDING MIXTURE NO. 30; AND EROSION MAT URBAN CLASS I TYPE A

Ⓑ SALVAGE TOPSOIL; FERTILIZER TYPE B; SEEDING MIXTURE NO. 30; AND EROSION MAT URBAN CLASS I TYPE A WHEN MEDIAN IS GREATER THAN 5' WIDE (B.O.C.TO B.O.C.)

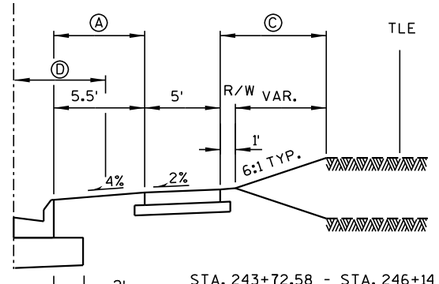
CONCRETE SIDEWALK 5-INCH WHEN MEDIAN IS 5' OR LESS (B.O.C. TO B.O.C.)

Ⓒ TOPSOIL; FERTILIZER TYPE B; SEEDING MIXTURE NO. 30; AND MULCHING

Ⓓ 6' LATERAL CLEARANCE

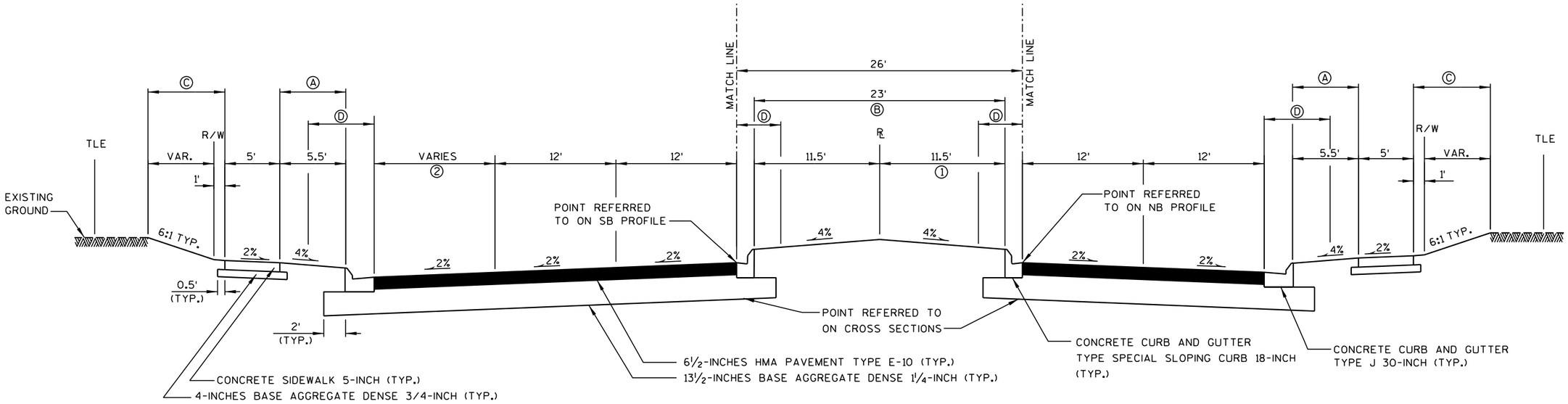


STA. 242+29 - STA. 243+72.58



STA. 243+72.58 - STA. 246+14

PROJECT NO: 2140-08-73	HWY: STH 181	COUNTY: MILWAUKEE	TYPICAL SECTIONS	SHEET 12	E

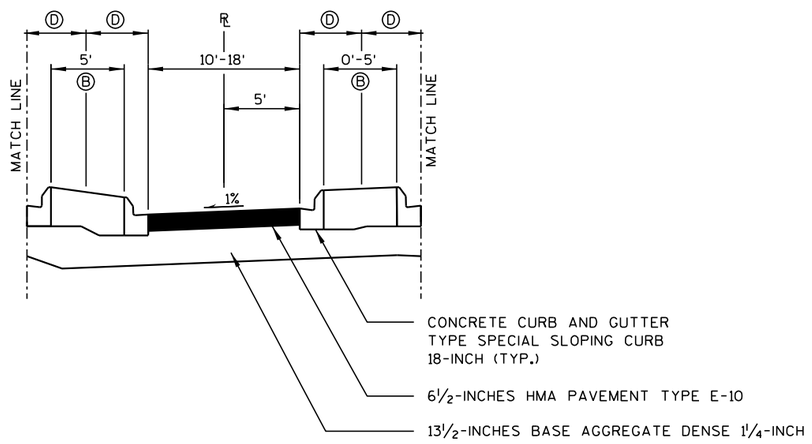


TYPICAL FINISHED SECTION
STH 181

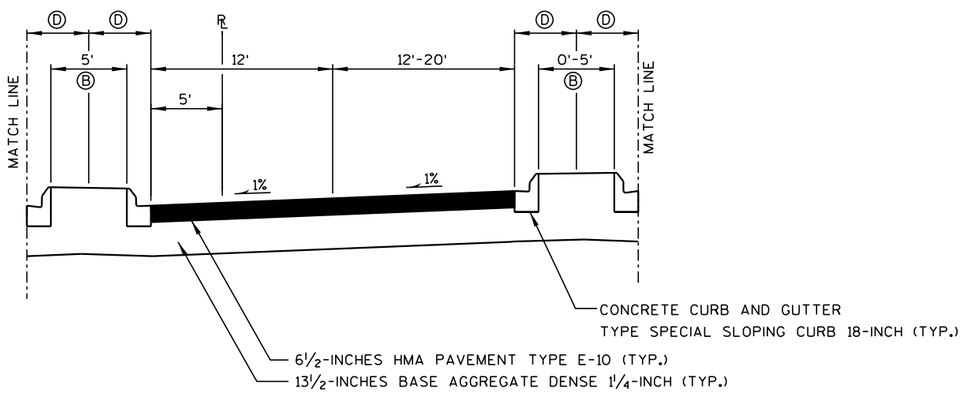
STA. 246+14 - STA. 257+50

① VARIES FROM 12.09' TO 0' FROM STA. 246+14 TO STA. 247+34.93

② VARIES FROM 18.93' TO 0' FROM STA. 246+14 TO STA. 248+66.26



STA. 254+97 - STA. 256+96



STA. 248+00 - STA. 250+26

Ⓐ TOPSOIL; FERTILIZER TYPE B; SEEDING MIXTURE NO. 30; AND EROSION MAT URBAN CLASS I TYPE A

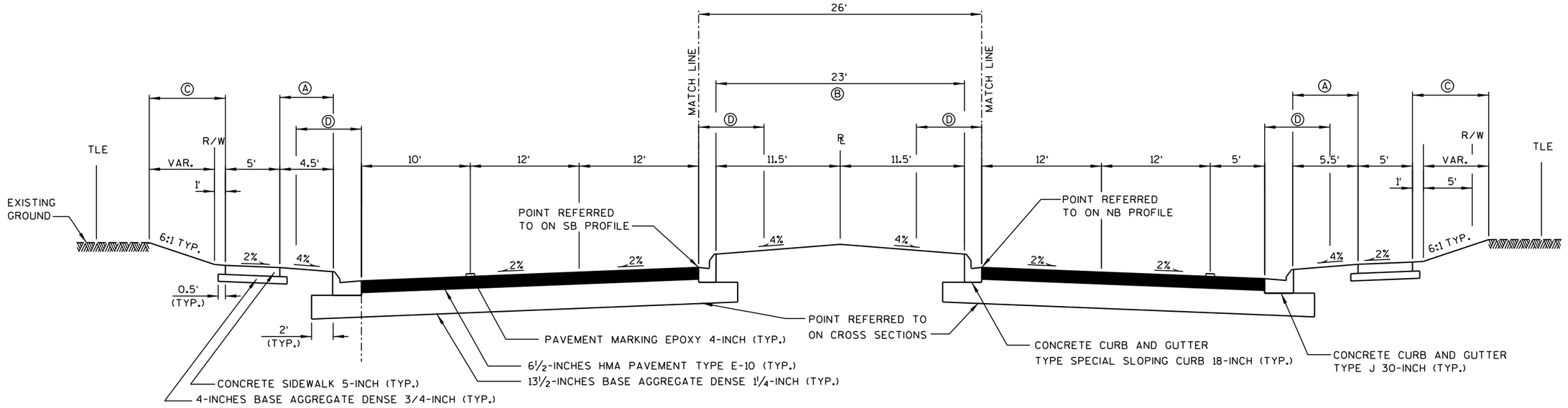
Ⓑ SALVAGE TOPSOIL; FERTILIZER TYPE B; SEEDING MIXTURE NO. 30; AND EROSION MAT URBAN CLASS I TYPE A WHEN MEDIAN IS GREATER THAN 5' WIDE (B.O.C. TO B.O.C.)

CONCRETE SIDEWALK 5-INCH WHEN MEDIAN IS 5' OR LESS (B.O.C. TO B.O.C.)

Ⓒ TOPSOIL; FERTILIZER TYPE B; SEEDING MIXTURE NO. 30; AND MULCHING

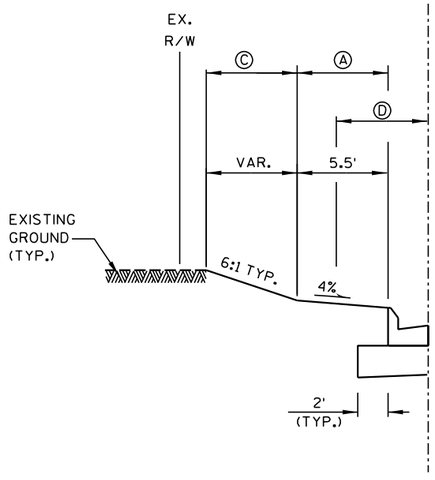
Ⓓ 6' LATERAL CLEARANCE

2

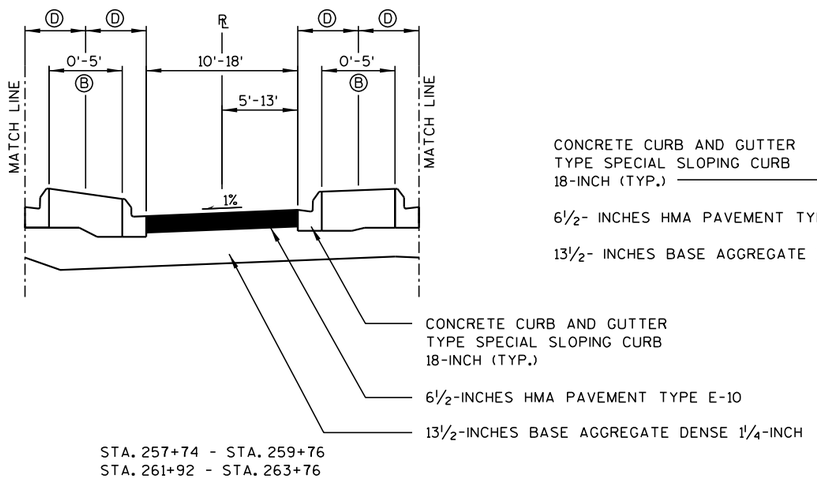


TYPICAL FINISHED SECTION
STH 181

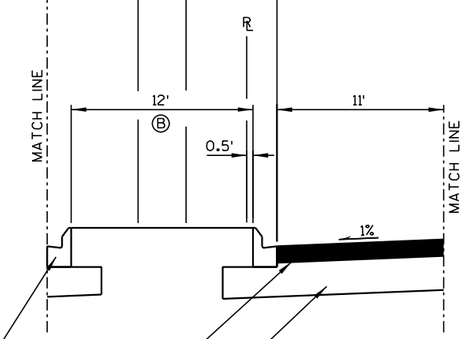
STA. 257+50 - STA. 271+15
STA. 275+82 - STA. 280+29



STA. 275+82 - STA. 280+29 RT
STA. 276+84 - STA. 280+29 LT



STA. 257+74 - STA. 259+76
STA. 261+92 - STA. 263+76



STA. 268+32 - STA. 269+65

Ⓐ TOPSOIL; FERTILIZER TYPE B; SEEDING MIXTURE NO. 30; AND EROSION MAT URBAN CLASS I TYPE A

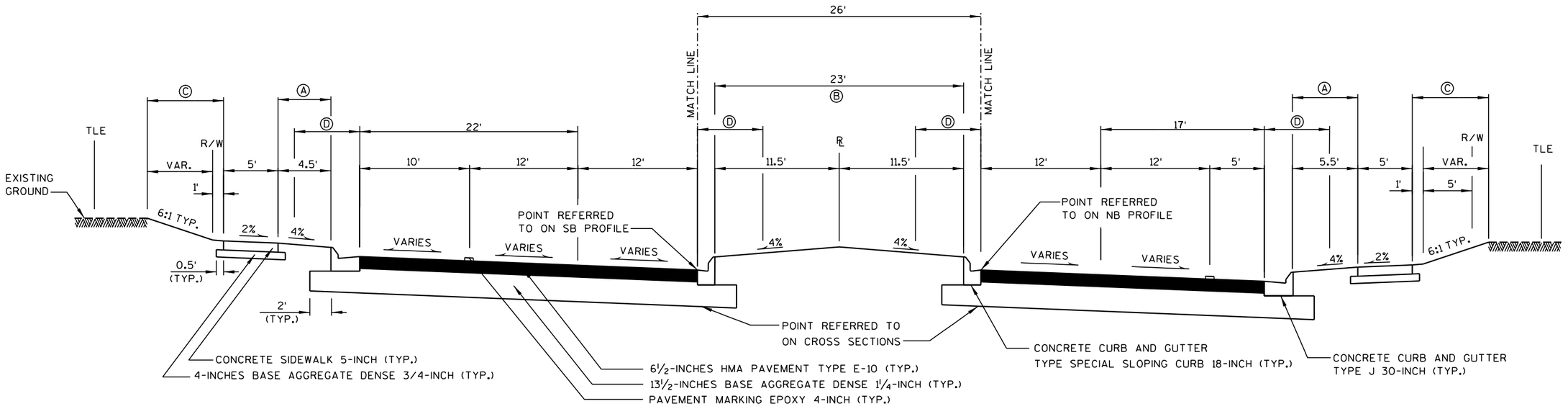
Ⓑ SALVAGE TOPSOIL; FERTILIZER TYPE B; SEEDING MIXTURE NO. 30; AND EROSION MAT URBAN CLASS I TYPE A WHEN MEDIAN IS GREATER THAN 5' WIDE (B.O.C.TO B.O.C.)

CONCRETE SIDEWALK 5-INCH WHEN MEDIAN IS 5' OR LESS (B.O.C. TO B.O.C.)

Ⓒ TOPSOIL; FERTILIZER TYPE B; SEEDING MIXTURE NO. 30; AND MULCHING

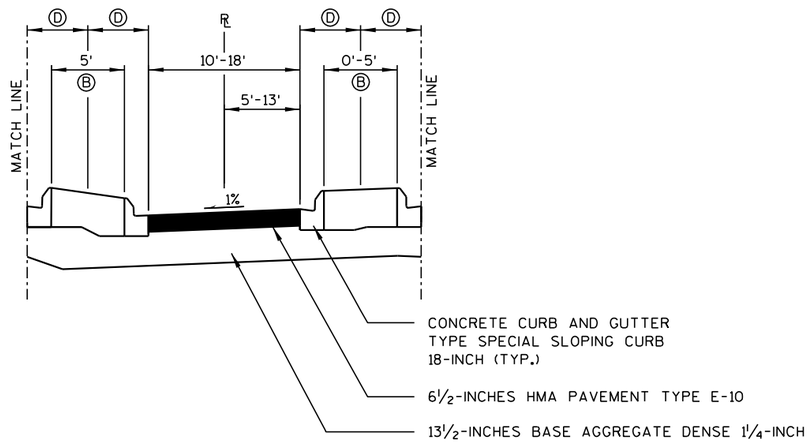
Ⓓ 6' LATERAL CLEARANCE

2



TYPICAL FINISHED SECTION
STH 181

STA. 271+15 - STA. 275+82



STA. 272+97 - STA. 274+58

Ⓐ TOPSOIL; FERTILIZER TYPE B; SEEDING MIXTURE NO. 30; AND EROSION MAT URBAN CLASS I TYPE A

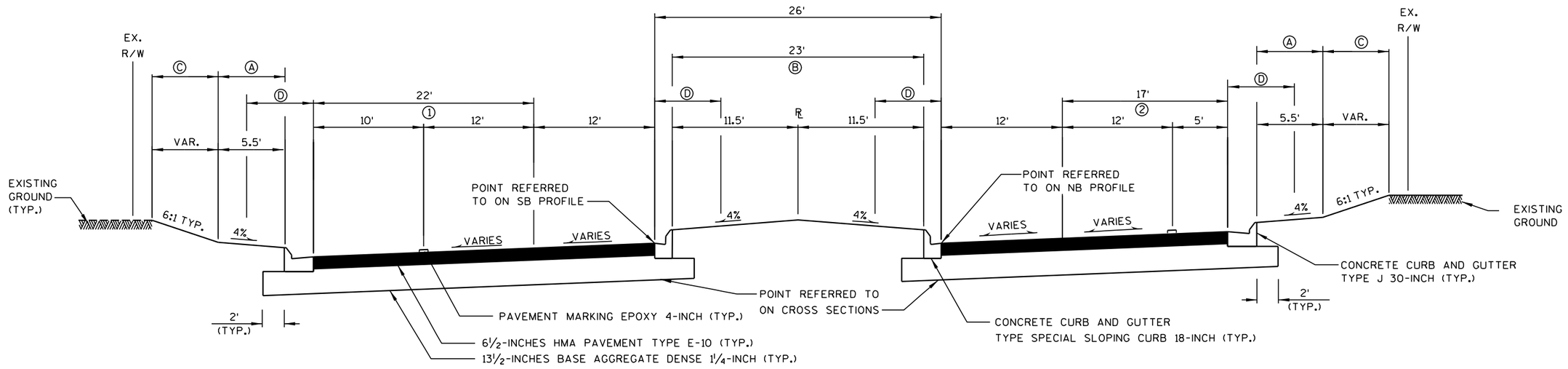
Ⓑ SALVAGE TOPSOIL; FERTILIZER TYPE B; SEEDING MIXTURE NO. 30; AND EROSION MAT URBAN CLASS I TYPE A WHEN MEDIAN IS GREATER THAN 5' WIDE (B.O.C.TO B.O.C.)

CONCRETE SIDEWALK 5-INCH WHEN MEDIAN IS 5' OR LESS (B.O.C. TO B.O.C.)

Ⓒ TOPSOIL; FERTILIZER TYPE B; SEEDING MIXTURE NO. 30; AND MULCHING

Ⓓ 6' LATERAL CLEARANCE

PROJECT NO: 2140-08-73	HWY: STH 181	COUNTY: MILWAUKEE	TYPICAL SECTIONS	SHEET 15	E



TYPICAL FINISHED SECTION
STH 181

STA. 280+29 - STA. 281+00

① VARIES FROM 22' TO 20' FROM STA. 280+50 TO STA. 281+00

② VARIES FROM 17' TO 21' FROM STA. 280+33 TO STA. 281+00

Ⓐ TOPSOIL; FERTILIZER TYPE B; SEEDING MIXTURE NO. 30; AND EROSION MAT URBAN CLASS I TYPE A

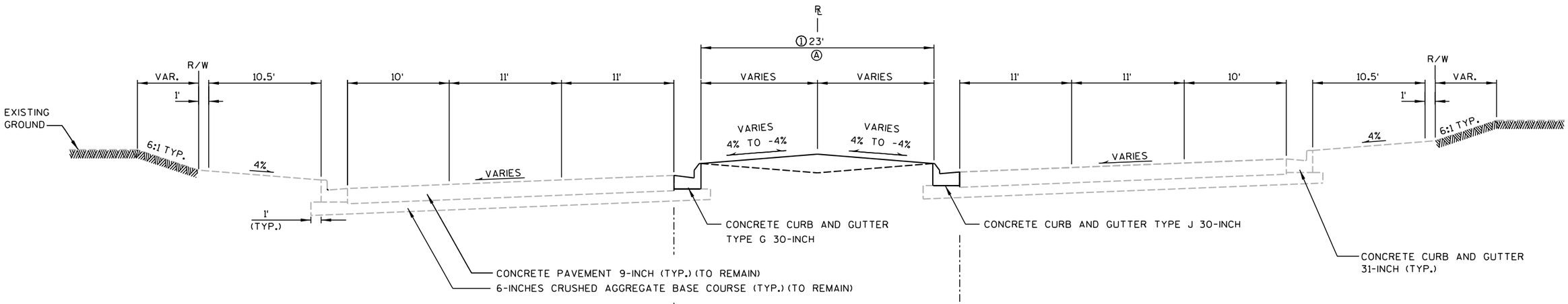
Ⓑ SALVAGE TOPSOIL; FERTILIZER TYPE B; SEEDING MIXTURE NO. 30; AND EROSION MAT URBAN CLASS I TYPE A WHEN MEDIAN IS GREATER THAN 5' WIDE (B.O.C.TO B.O.C.)

CONCRETE SIDEWALK 5-INCH WHEN MEDIAN IS 5' OR LESS (B.O.C. TO B.O.C.)

Ⓒ TOPSOIL; FERTILIZER TYPE B; SEEDING MIXTURE NO. 30; AND MULCHING

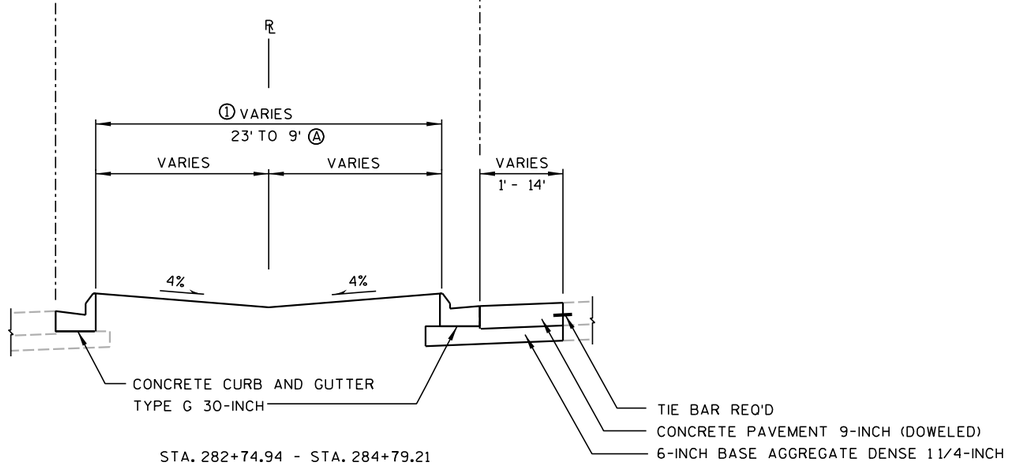
Ⓓ 6' LATERAL CLEARANCE

PROJECT NO: 2140-08-73	HWY: STH 181	COUNTY: MILWAUKEE	TYPICAL SECTIONS	SHEET 16	E



TYPICAL FINISHED SECTION STH 181

STA. 281+00 - STA. 282+74.94



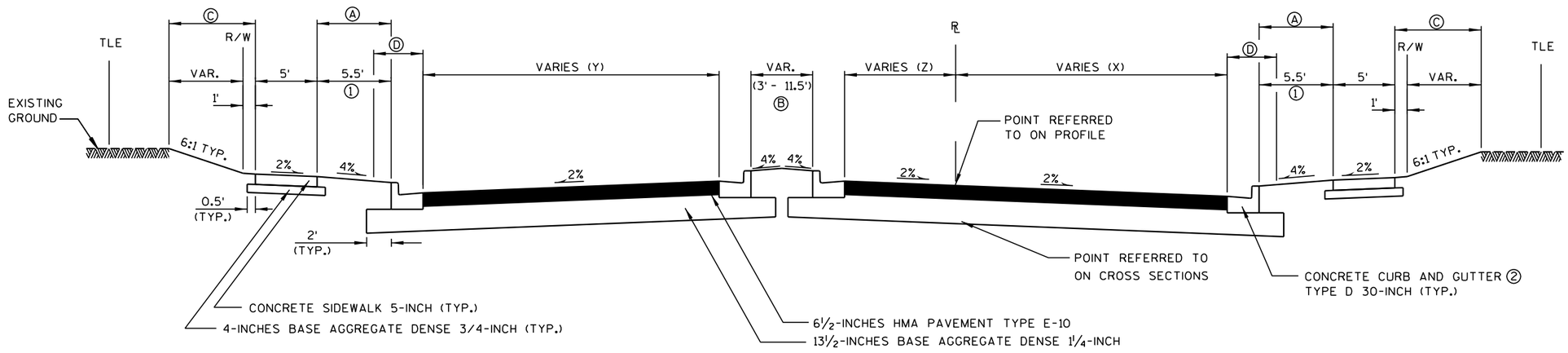
STA. 282+74.94 - STA. 284+79.21

① VARIES FROM 23' TO 9' FROM STA. 282+94.89 TO STA. 284+79.21

Ⓐ SALVAGE TOPSOIL; FERTILIZER TYPE B; SEEDING MIXTURE NO. 30; AND EROSION MAT URBAN CLASS I TYPE A WHEN MEDIAN IS GREATER THAN 5' WIDE (B.O.C.TO B.O.C.)

CONCRETE SIDEWALK 5-INCH WHEN MEDIAN IS 5' OR LESS (B.O.C. TO B.O.C.)

PROJECT NO: 2140-08-73	HWY: STH 181	COUNTY: MILWAUKEE	TYPICAL SECTIONS	SHEET 17	E

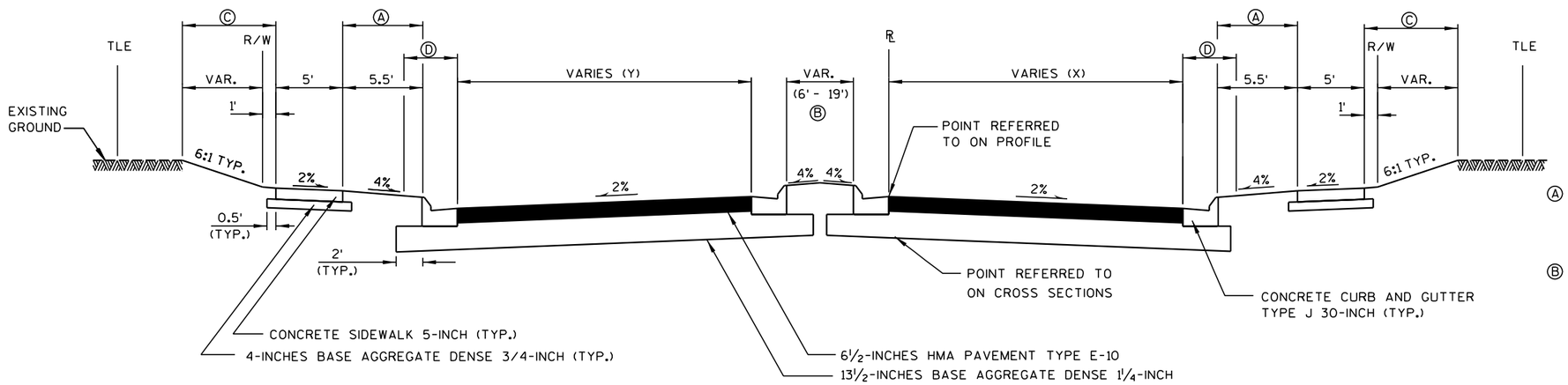


TYPICAL FINISHED SECTION

CALUMET RD. (WEST) (X=18.5', Y=20', Z=12.5')
BRADLEY RD. (WEST) (X=26', Y=28', Z=12')
BRADELY RD. (EAST) (REVERSED TYPICAL) (X=24', Y=28', Z=15')
② NORTHRIDGE LAKES BLVD. (REVERSED TYPICAL) (X=24', Y=24', Z=10')

① CALUMET ROAD - VARIES

② CONCRETE CURB AND GUTTER TYPE J 30-INCH (TYP.)



TYPICAL FINISHED SECTION

PRIVATE ROAD - STA. 250+44 LT (X=32', Y=32')
PRIVATE ROAD - STA. 257+36 LT (X=36', Y=24')
PRIVATE ROAD - STA. 264+00 LT (X=24', Y=24')

Ⓐ TOPSOIL; FERTILIZER TYPE B; SEEDING MIXTURE NO. 30; AND EROSION MAT URBAN CLASS I TYPE A

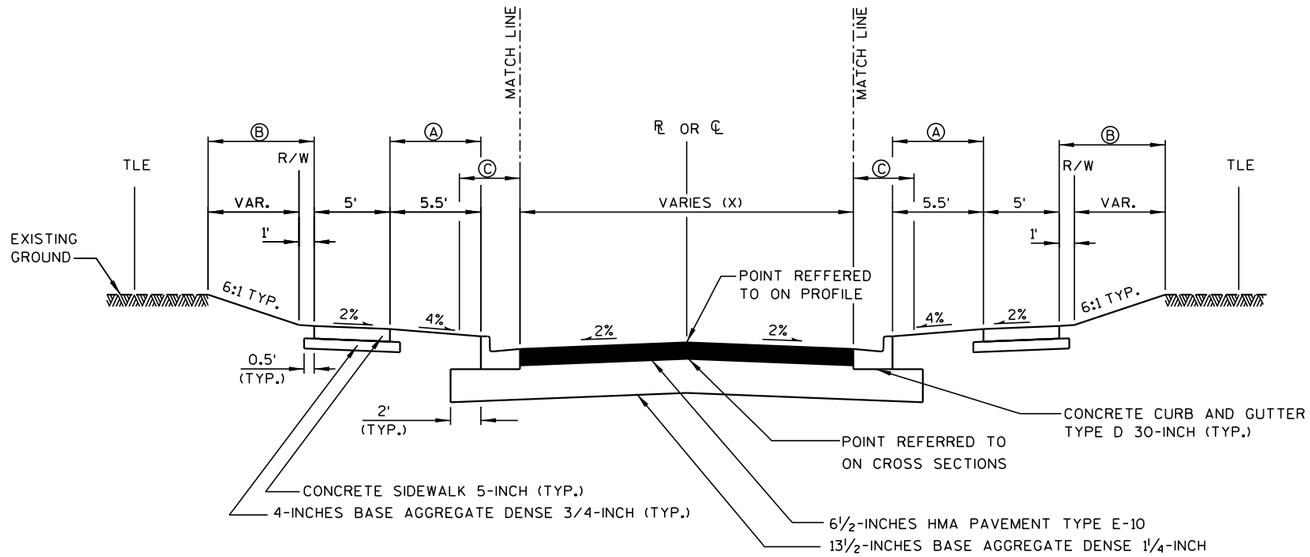
Ⓑ SALVAGE TOPSOIL; FERTILIZER TYPE B; SEEDING MIXTURE NO. 30; AND EROSION MAT URBAN CLASS I TYPE A WHEN MEDIAN IS GREATER THAN 5' WIDE (B.O.C.TO B.O.C.)

CONCRETE SIDEWALK 5-INCH WHEN MEDIAN IS 5' OR LESS (B.O.C. TO B.O.C.)

Ⓒ TOPSOIL; FERTILIZER TYPE B; SEEDING MIXTURE NO. 30; AND MULCHING

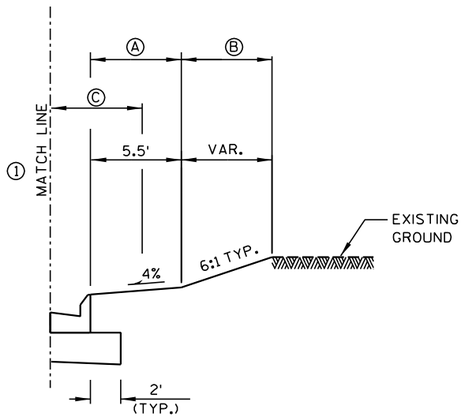
Ⓓ 4' LATERAL CLEARANCE

PROJECT NO: 2140-08-73	HWY: STH 181	COUNTY: MILWAUKEE	TYPICAL SECTIONS	SHEET 18	E

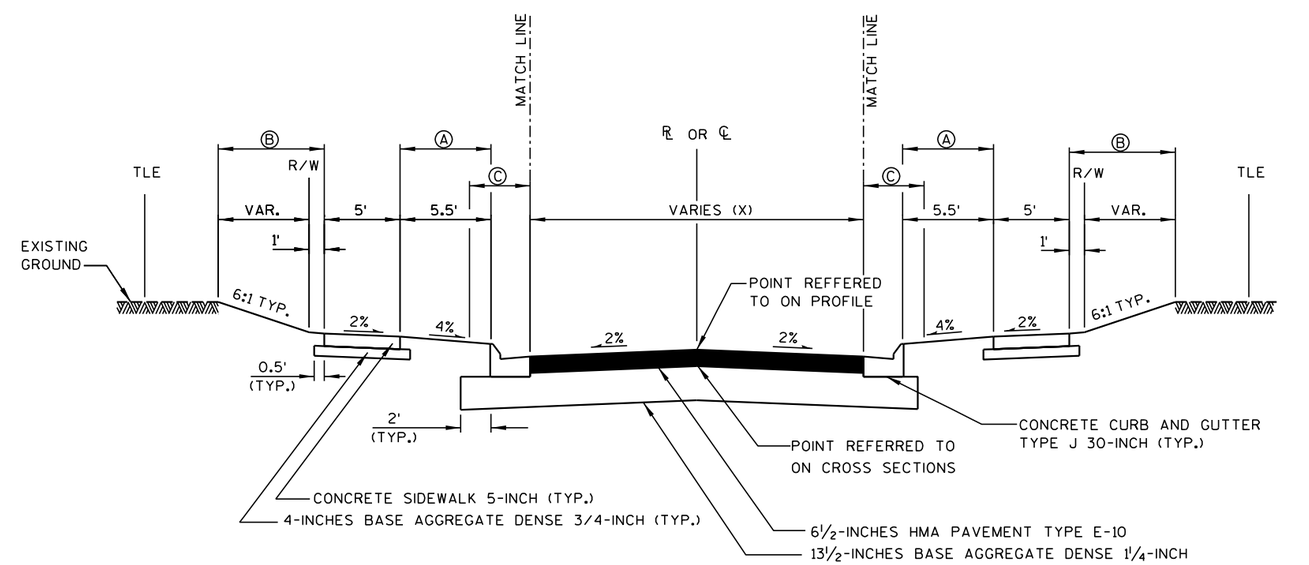


TYPICAL FINISHED SECTION

TOWER AVE. (X=37')
CALUMET RD. (EAST) (X=44')



TOWER AVE.
N. 76TH PLACE



TYPICAL FINISHED SECTION

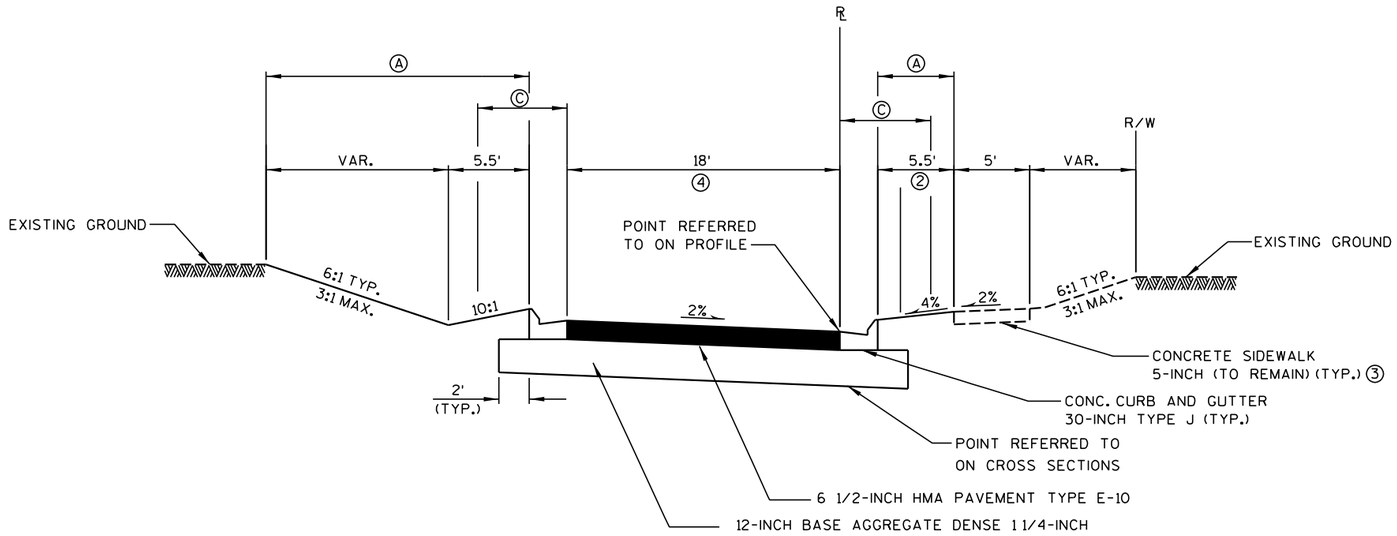
SERVITE DR./ DEAN RD. (X=44')
N. 76TH PL. (X=36')
GLENBROOK RD. (X=40')

① REVERSED FOR OTHER SIDE

Ⓐ TOPSOIL; FERTILIZER TYPE B; SEEDING MIXTURE NO. 30; AND EROSION MAT URBAN CLASS I TYPE A

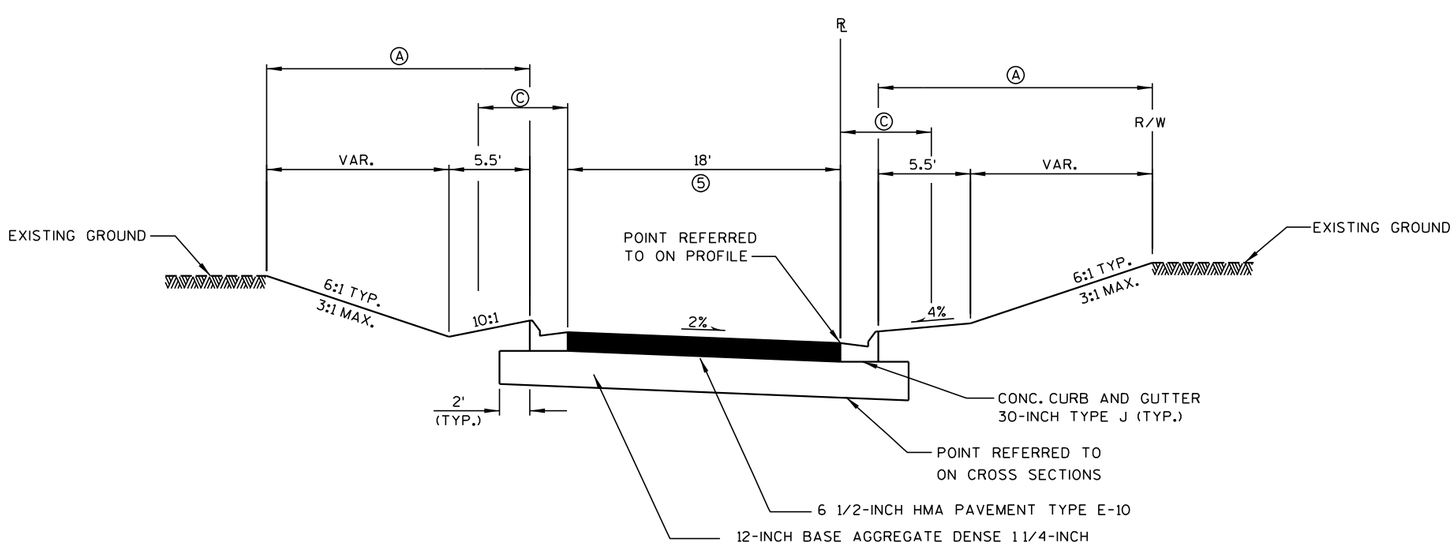
Ⓑ TOPSOIL; FERTILIZER TYPE B; SEEDING MIXTURE NO. 30; AND MULCHING

Ⓒ 4' LATERAL CLEARANCE



TYPICAL FINISHED SECTION
BROWN DEER ROAD/STH 100 RAMPS

NE RAMP
① NW RAMP



TYPICAL FINISHED SECTION
BROWN DEER ROAD/STH 100 RAMPS

① SW RAMP
SE RAMP

Ⓐ TOPSOIL: FERTILIZER TYPE B;
SEEDING MIXTURE NO. 30;
AND EROSION MAT URBAN CLASS I
TYPE A

Ⓒ 6' LATERAL CLEARANCE

① REVERSED TYPICAL FINISHED SECTION

② VARIES FROM 3.5' TO 6' - NE RAMP

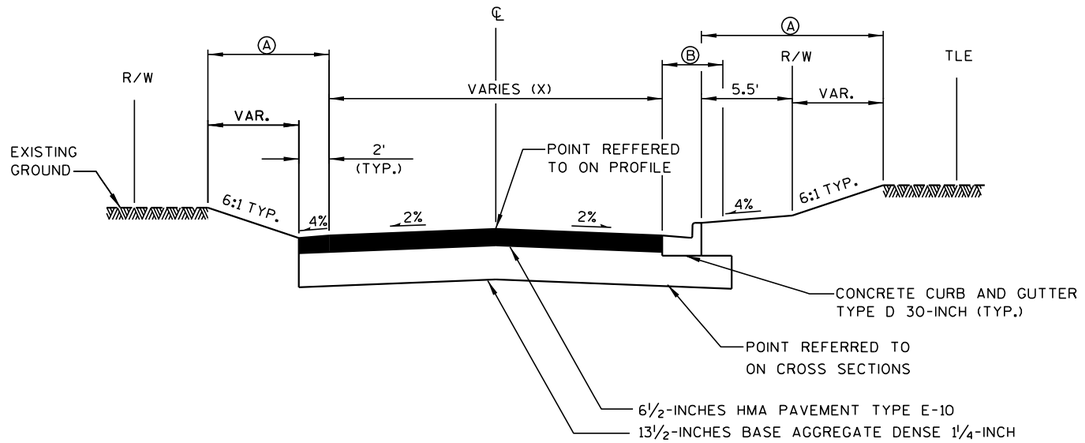
③ NEW CONCRETE SIDEWALK 5-INCH
REQUIRED - NW RAMP

④ VARIES FROM 18' TO 13' FROM
STA. 240'NE'+71.64 TO STA. 243'NE'+21.64

⑤ VARIES FROM 15' TO 18' FROM
STA. 220'SW'+50.76 TO STA. 221'SW'+70.32

VARIES FROM 21' TO 18' FROM
STA. 224'SE'+42.23 TO STA. 225'SE'+02.23

PROJECT NO: 2140-08-73	HWY: STH 181	COUNTY: MILWAUKEE	TYPICAL SECTIONS	SHEET 20	E



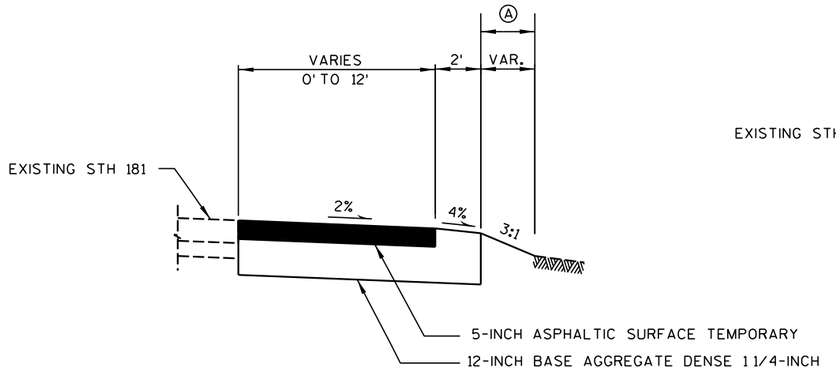
TYPICAL FINISHED SECTION

LOLITA AVE. (X=28')
FRONTAGE RD. (X=20')

Ⓐ TOPSOIL; FERTILIZER, TYPE B; SEEDING MIXTURE NO. 30; AND EROSION MAT URBAN CLASS I TYPE A

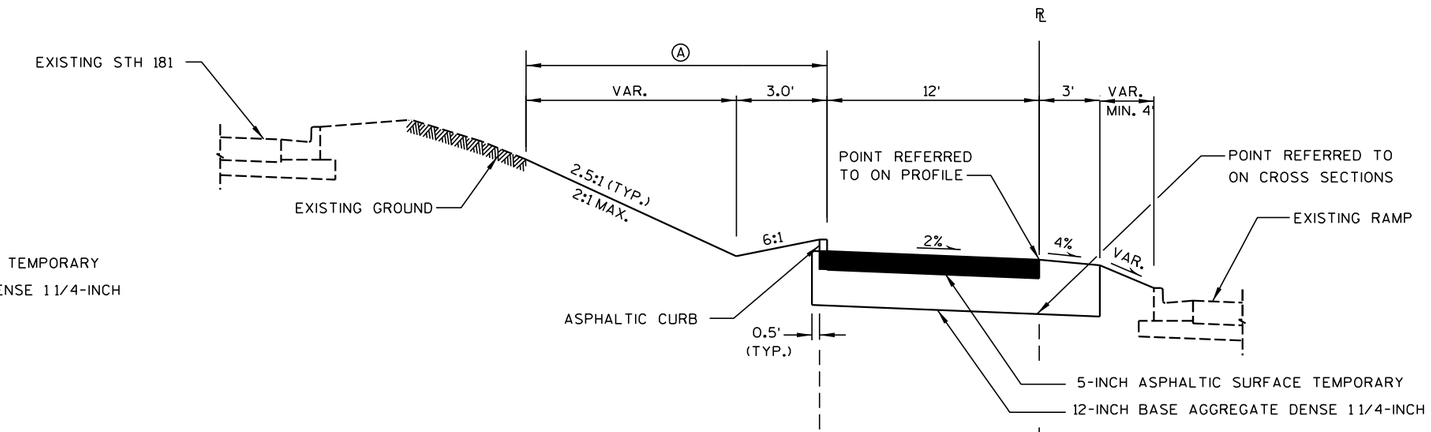
Ⓑ 4' LATERAL CLEARANCE

PROJECT NO: 2140-08-73	HWY: STH 181	COUNTY: MILWAUKEE	TYPICAL SECTIONS	SHEET 21	E



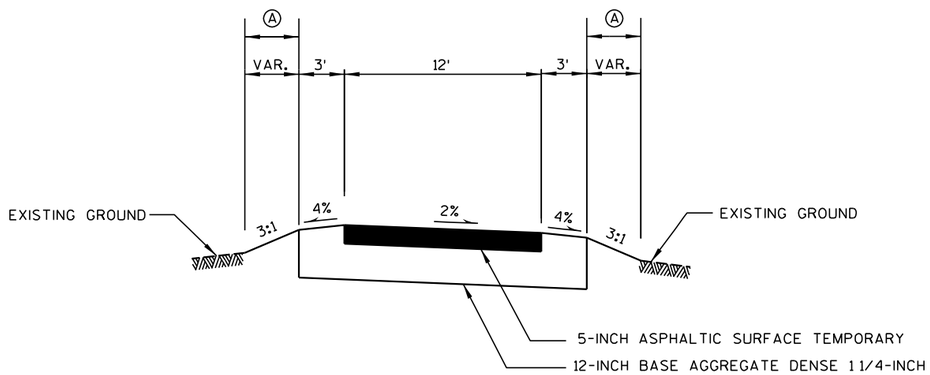
TYPICAL FINISHED SECTION
RAMP CROSSOVER

STA. 1+00 'TSE' TO STA. 2+45 'TSE'
STA. 8+55 'TNE' TO STA. 10+71 'TNE'
STA. 4+25 'TSW' TO STA. 5+03 'TSW'
STA. 7+46 'TNW' TO STA. 7+86 'TNW'
STA. 2+55 'TSE' TO STA. 5+12 'TSE'
① STA. 7+20 'TNE' TO STA. 7+71 'TNE'
① STA. 1+00 'TSW' TO STA. 3+14 'TSW'
① STA. 8+32 'TNW' TO STA. 9+45 'TNW'



TYPICAL FINISHED SECTION
TEMPORARY RAMPS

STA. 10+09 'TSE' TO STA. 16+00 'TSE'
STA. 4+00 'TNE' TO STA. 5+89 'TNE'
① STA. 7+05 'TSW' TO STA. 15+90 'TSW'
① STA. 11+58 'TNW' TO STA. 6+41 'TNW'

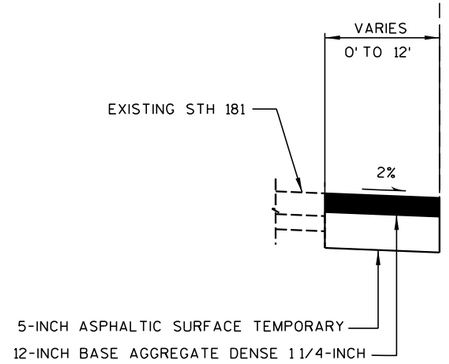


TYPICAL FINISHED SECTION
RAMP CROSSOVER

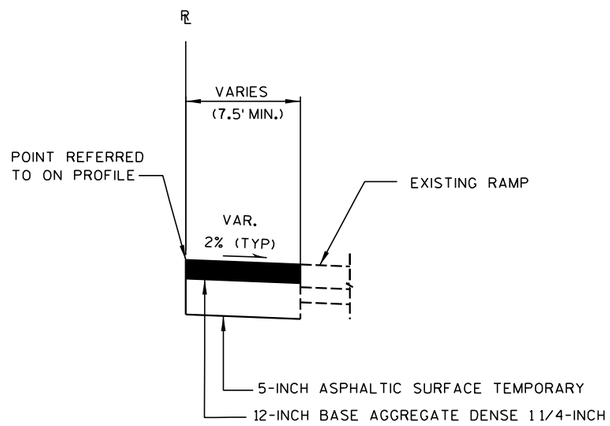
STA. 2+45 'TSE' TO STA. 3+55 'TSE'
STA. 7+69 'TNE' TO STA. 8+55 'TNE'
STA. 3+58 'TSW' TO STA. 4+26 'TSW'
STA. 7+87 'TNW' TO STA. 8+26 'TNW'

Ⓐ FERTILIZER, TYPE B; SEEDING
TEMPORARY MULCHING

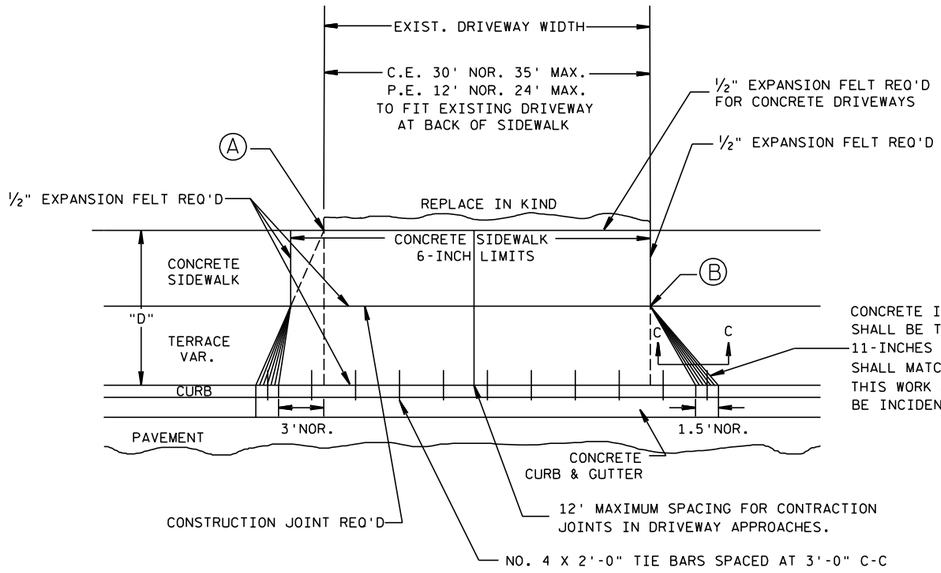
① REVERSED TYPICAL FINISHED SECTION



STA. 9+53 'TSE' TO STA. 10+09 'TSE'
STA. 5+87 'TNE' TO STA. 6+36 'TNE'
STA. 6+21 'TSW' TO STA. 7+05 'TSW'
STA. 6+41 'TNW' TO STA. 6+79 'TNW'



STA. 16+00 'TSE' TO STA. 17+82 'TSE'
STA. 1+04 'TNE' TO STA. 4+00 'TNE'
① STA. 15+90 'TSW' TO STA. 16+19 'TSW'
① STA. 1+24 'TNW' TO STA. 1+58 'TNW'

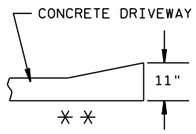


CONCRETE IN THE 1.5' TAPER AREA SHALL BE TAPERED TO A DEPTH OF 11-INCHES AND THE EXPANSION FELT SHALL MATCH THIS DEPTH. THIS WORK AND MATERIAL WILL BE INCIDENTAL TO THE BID ITEM.

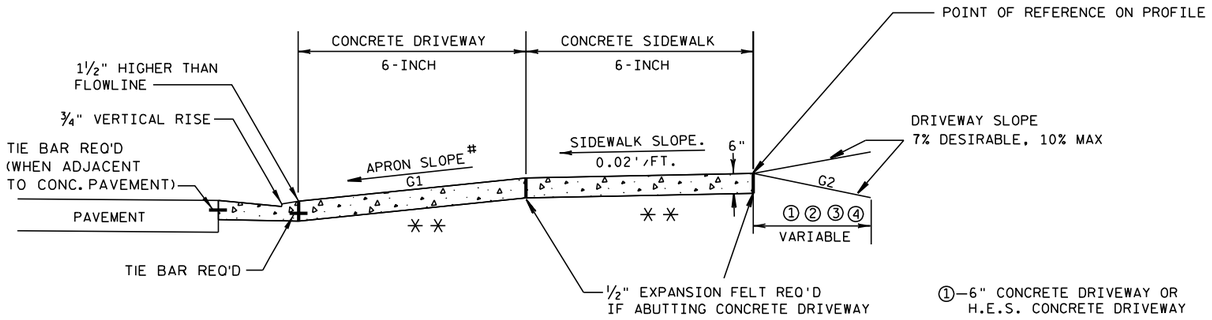
PLAN VIEW

Ⓐ WHEN "D" IS 13' OR LESS, ALIGN TAPER WITH BACK OF SIDEWALK

Ⓑ WHEN "D" IS GREATER THAN 13', ALIGN TAPER WITH FRONT OF SIDEWALK



SECTION C-C



TYPICAL SIDEWALK SECTION

①—6" CONCRETE DRIVEWAY OR H.E.S. CONCRETE DRIVEWAY

②—6" BASE AGG. DENSE 1 1/4-INCH

③—4" BASE AGGREGATE DENSE 1 1/4-INCH BASE WITH 2" ASPHALTIC SURFACE DRIVEWAYS AND FIELD ENTRANCES

④—8" BASE AGGREGATE DENSE 1 1/4-INCH BASE WITH 4" ASPHALTIC SURFACE DRIVEWAYS AND FIELD ENTRANCES

- STA. 147+10 LT

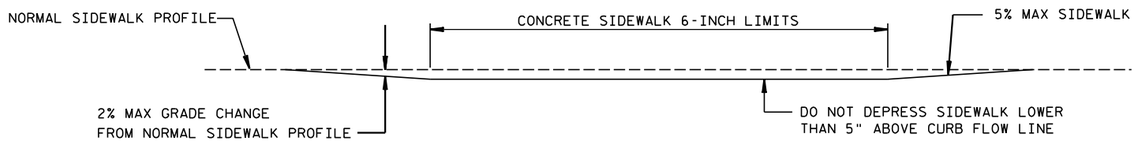
* * = 6" BASE AGGREGATE DENSE 1 1/4-INCH REQ'D UNDER CONCRETE DRWY

\#

TERRACE WIDTH	APRON SLOPE (G1) MIN %	DESIRABLE %	MAX %
3 FT	7.0	8.5	9.0
4 FT	5.0	7.0	9.0
5 FT	4.0	7.0	9.0
6 FT	4.0	7.0	9.0
7 FT	3.5	7.0	9.0
8 FT	3.0	7.0	9.0

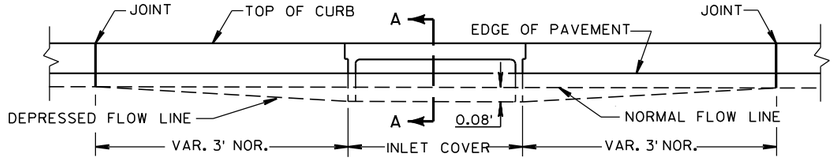
NOTE: ALGEBRAIC DIFFERENCE BETWEEN TANGENT GRADES G1 & G2 TO NOT EXCEED 15%

DEPRESS SIDEWALK PROFILE IF DRIVEWAY APRON EXCEEDS MAX SLOPE

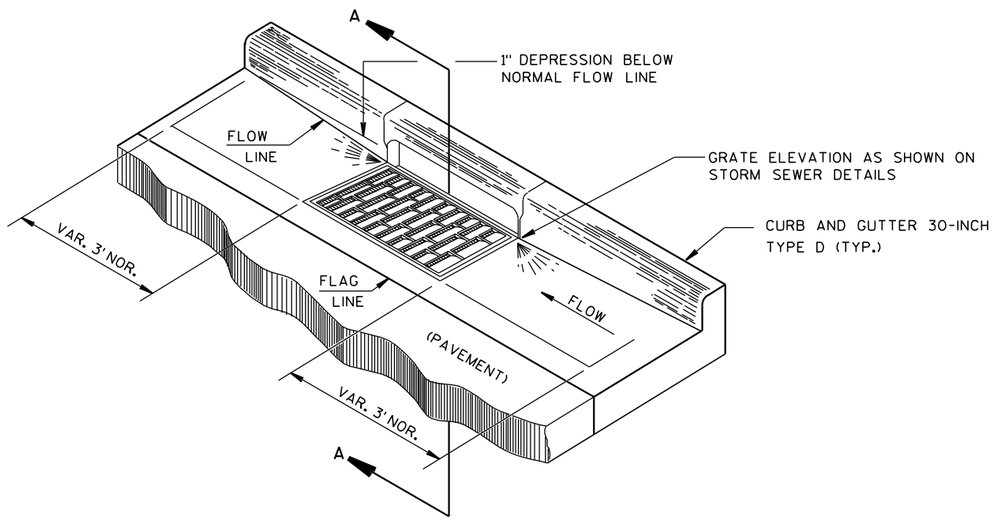


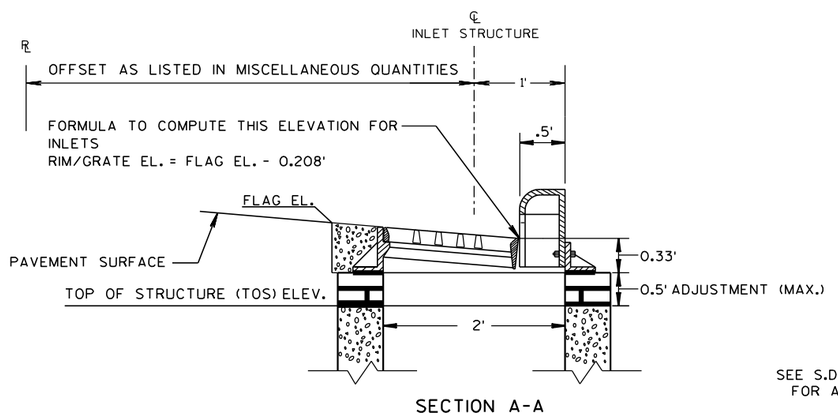
DEPRESSED SIDEWALK PROFILE DETAIL

DRIVEWAY ENTRANCE DETAIL WITH SIDEWALK, CURB & GUTTER



ELEVATION



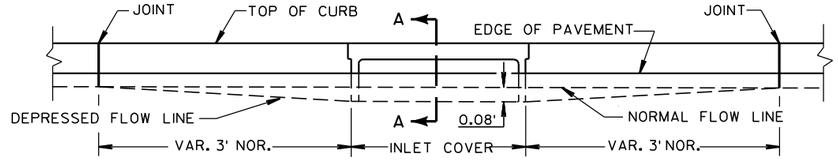


SECTION A-A

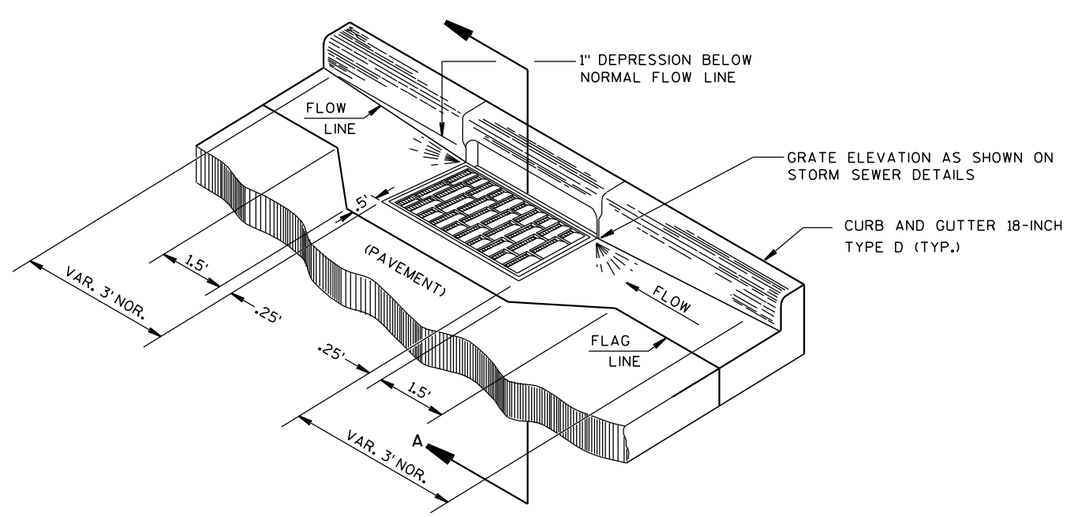
SEE S.D.D. INLETS TYPE 1, 3 & 8
FOR ADDITIONAL INFORMATION

DETAIL OF CONCRETE CURB AND GUTTER 30-INCH TYPE D AT INLETS

(TYPE 3-H INLET SHOWN)



ELEVATION

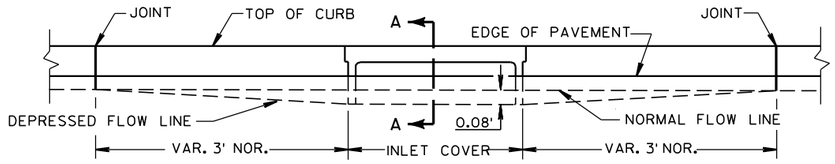


SECTION A-A

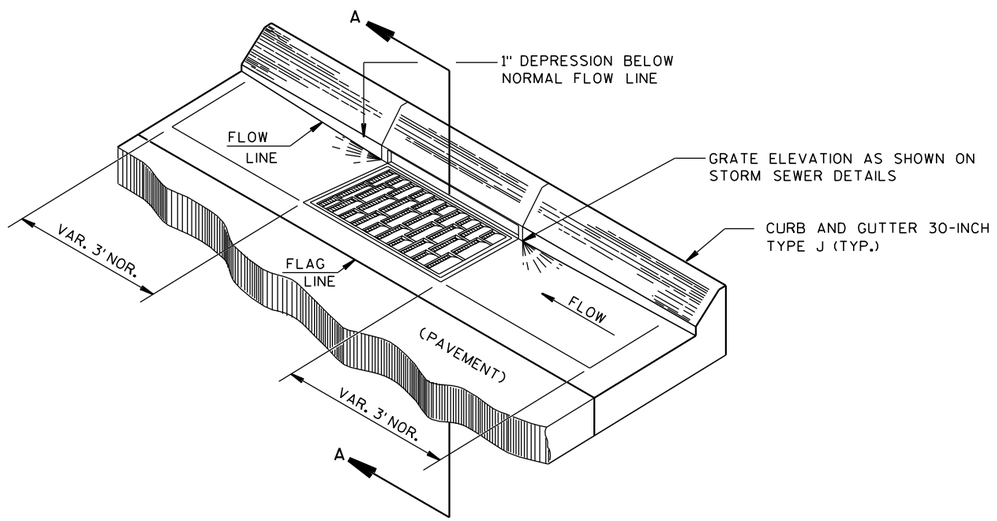
SEE S.D.D. INLETS TYPE 1, 3 & 8
FOR ADDITIONAL INFORMATION

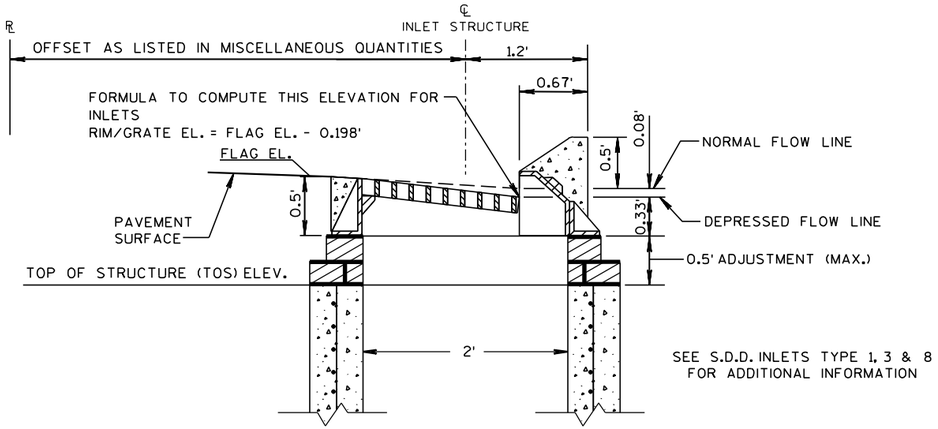
DETAIL OF CONCRETE CURB AND GUTTER 18-INCH TYPE D AT INLETS

(TYPE 3-H INLET SHOWN)



ELEVATION

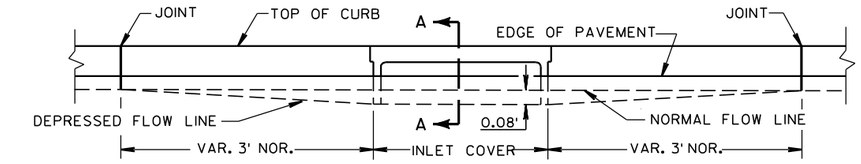




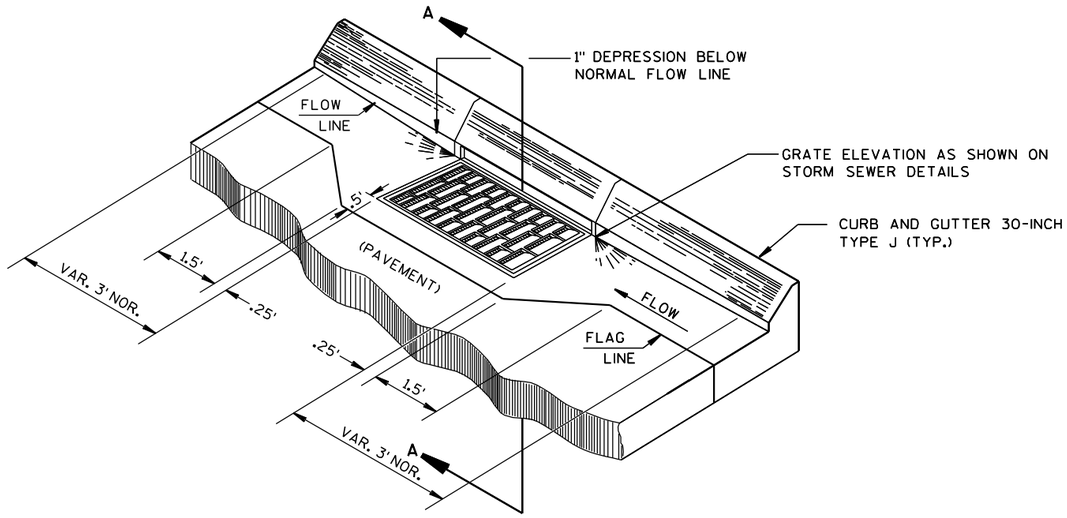
SECTION A-A

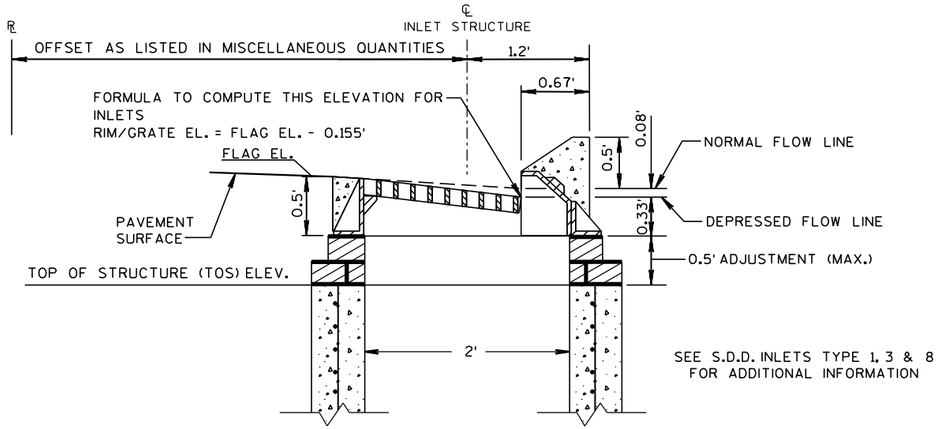
DETAIL OF CONCRETE CURB AND GUTTER 30-INCH TYPE J AT INLETS

(TYPE 3-HM-GJ INLET SHOWN)



ELEVATION

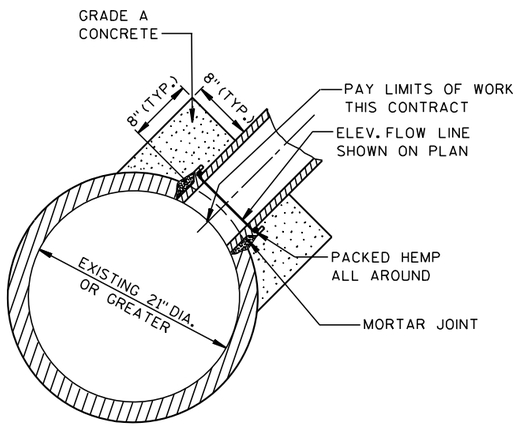




SECTION A-A

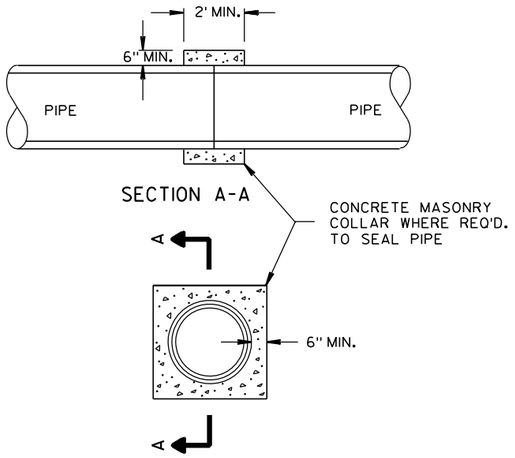
DETAIL OF CONCRETE CURB AND GUTTER TYPE SPECIAL SLOPING CURB 18-INCH AT INLETS

(TYPE 3-HM-GJ INLET SHOWN)

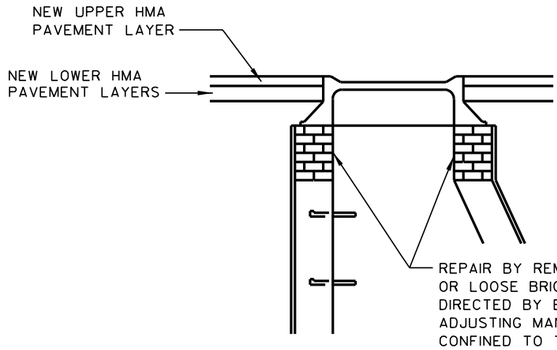


DETAIL OF CONNECTION TO EXISTING STORM SEWER

NOTE: PAY AS CULVERT PIPE CONCRETE COLLAR



CULVERT PIPE CONCRETE COLLAR DETAIL



REPAIR BY REMOVING & REPLACING DAMAGED OR LOOSE BRICK OR BLOCK TO DEPTH AS DIRECTED BY ENGINEER. WORK UNDER ADJUSTING MANHOLE COVERS SHALL BE CONFINED TO THE BRICK SHIMMING ABOVE THE STRUCTURE CORBEL. THIS SHIMMING SHALL NOT EXCEED 1 FOOT BETWEEN THE TOP OF THE CORBEL AND THE FRAME BOTTOM. ANY WORK MORE EXTENSIVE THAN DESCRIBED IMMEDIATELY ABOVE SHALL BE CONSTRUED AS WORK UNDER RECONSTRUCTING MANHOLES.

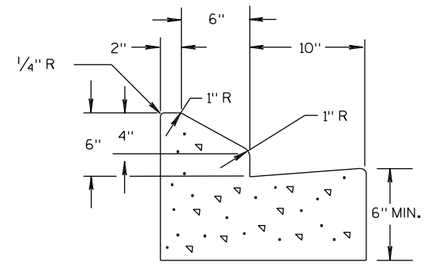
CONSTRUCTION NOTES

1. LOCATIONS OF STRUCTURES REFER TO CENTERLINE OF STRUCTURE.

2. GRATE & RIM ELEVATIONS ARE GIVEN AT CENTERLINE OF MANHOLE COVER.

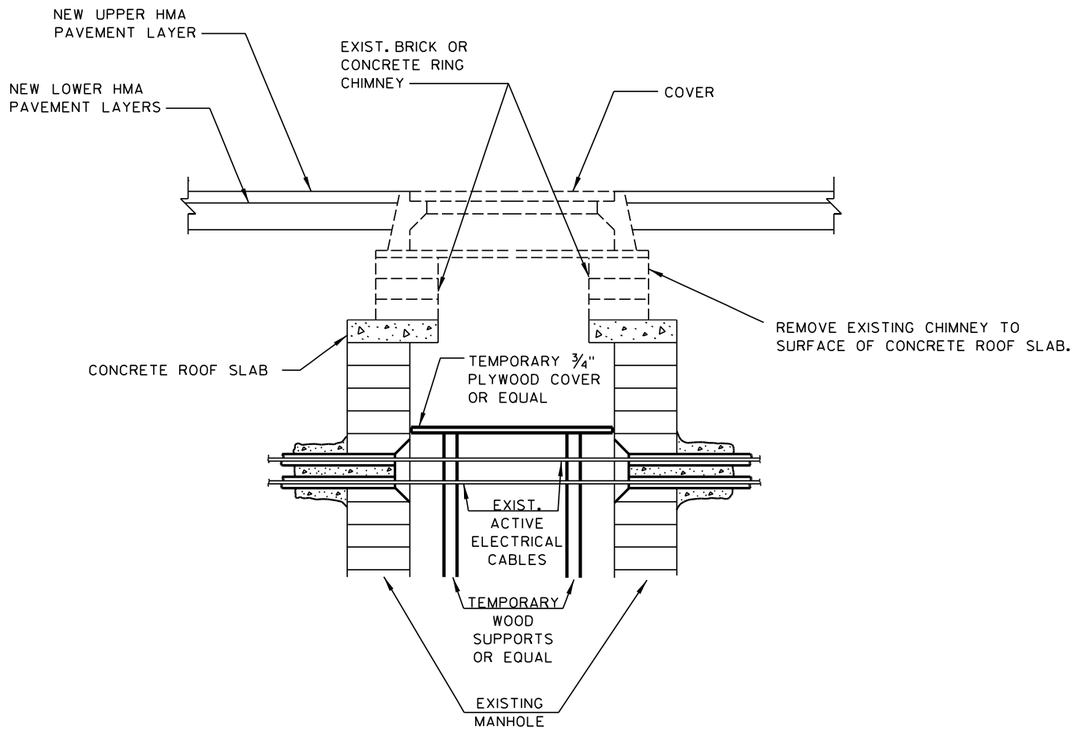
3. TEMPORARY COVER PLATES REQUIRED FOR PROPOSED ADJUSTING MANHOLE COVERS LOCATED WITHIN PROPOSED TEMPORARY PAVEMENT AREAS.

ADJUSTING MANHOLE COVERS



SEE S.D.D. "CONCRETE CURB, CONCRETE CURB & GUTTER AND PAVEMENT TIES" FOR ADDITIONAL INFORMATION

CONCRETE CURB AND GUTTER TYPE SPECIAL SLOPING CURB 18-INCH



BLOCK OR PRECAST MANHOLE

CONSTRUCTION NOTES

PRIOR TO REMOVING PAVEMENT:

1. FURNISH AND INSTALL TEMPORARY WOOD SUPPORTS OR EQUAL.

2. FURNISH AND INSTALL TEMPORARY ¾" PLYWOOD COVER OR EQUAL.

AFTER PAVING LOWER LAYERS:

1. ADJUST MANHOLE CHIMNEY OR CORBEL WITH PROPER SIZE CONCRETE ADJUSTING RINGS (SIZE OF OPENING OF CONCRETE ADJUSTING RING TO BE DETERMINED BY SIZE OF OPENING IN FRAME) AND REINSTALL EXISTING OR NEW MANHOLE COVER TO FINISH GRADE.

AFTER PAVING UPPER LAYER:

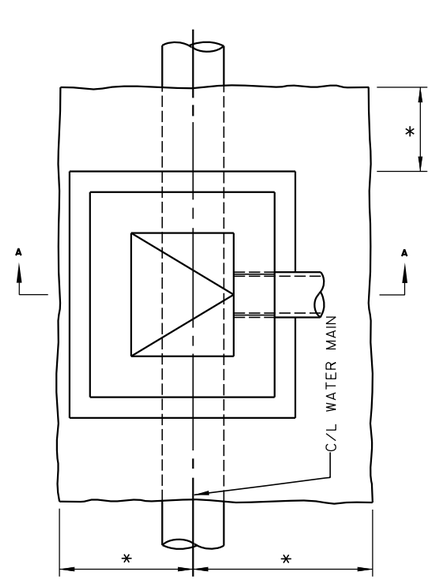
1. REMOVE DEBRIS FROM TEMPORARY PLYWOOD COVER.

2 REMOVE TEMPORARY PLYWOOD COVER AND SUPPORTS.

(BACKFILL AND OTHER WORK TO BE DONE IN ACCORDANCE WITH ITEM - ADJUSTING MANHOLE COVERS)

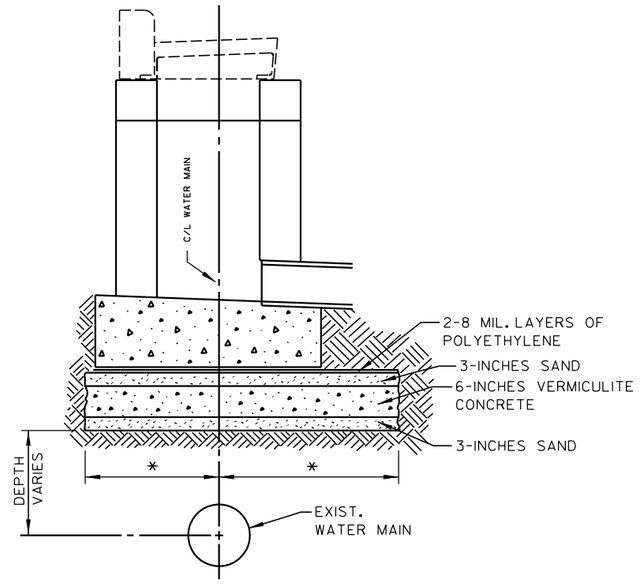
ADJUSTING MANHOLE COVERS - TES

STA. 142+68, 17' LT	STA. 179+24, 18' LT
STA. 147+73, 17' LT	STA. 186+00, 17' LT
STA. 152+78, 18' LT	STA. 191+74, 17' LT
STA. 157+76, 17' LT	STA. 198+73, 17' LT
STA. 162+57, 17' LT	STA. 205+74, 17' LT
STA. 167+35, 17' LT	STA. 212+40, 17' LT
STA. 173+88, 17' LT	STA. 223+36, 88' LT
STA. 179+19, 72' LT	STA. 228+30 'SW', 8' RT
STA. 179+24, 75' RT	STA. 218+05 'SW', 10' RT



PLAN VIEW

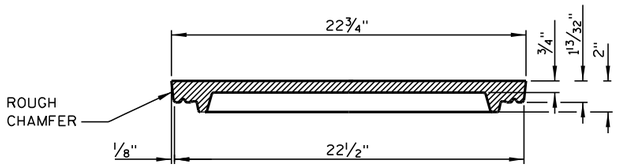
* LIMITS OF EXCAVATION FOR DRAINAGE STRUCTURE OR 2' MAXIMUM



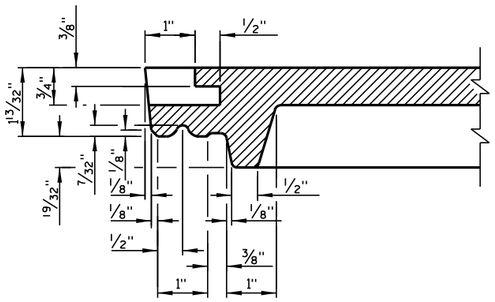
SECTION A-A

DRAINAGE STRUCTURES	
NO.	LOCATION
I-18.2	168 + 10, 57.00' LT
I-19.1	168 + 10, 47.50' RT
I-21.2	170 + 65, 47.50' RT
I-21B.1	8 + 63'F', 12.50' RT
I-54.1	244 + 50 'NW' 1.30' LT
I-54.2	244 + 75, 67.58' LT
I-55.4	245 + 50, 'NW', 1.30' LT
I-57.1	247 + 50, 47.00' LT
I-78.1	278 + 99, 48.30' LT

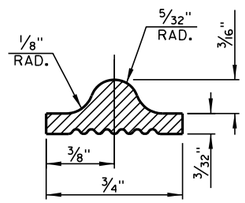
WATER MAIN PROTECTION



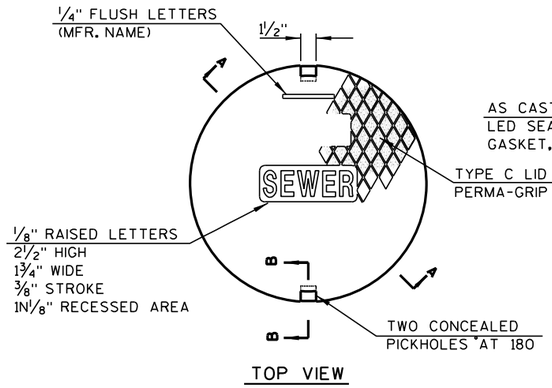
SECTION A-A



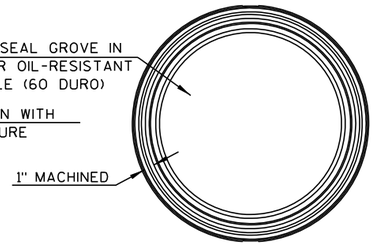
SECTION B-B



"T" GASKET DETAIL



TOP VIEW



BOTTOM VIEW

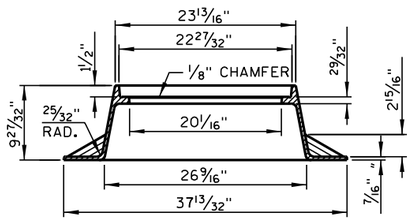
LID - 107 LBS.

NOTE:

ALL CASTINGS SHALL BEAR THE FOLLOWING IDENTIFICATION MARKS IN THE FORM OF LEGIBLE LETTERS OR NUMERALS RAISED⅛ HAVING A DIGIT OR LETTER HEIGHT OF ONE INCH ON LOWER FACE OF LID:

1. THE INITIALS OR MONOGRAM OF THE FOUNDRY.
2. THE CONTRACT NUMBER AND YEAR MADE.
3. THE CASTING IDENTIFICATION NUMBER.
4. THE SERIAL NUMBER OF THE INDIVIDUAL CASTING.

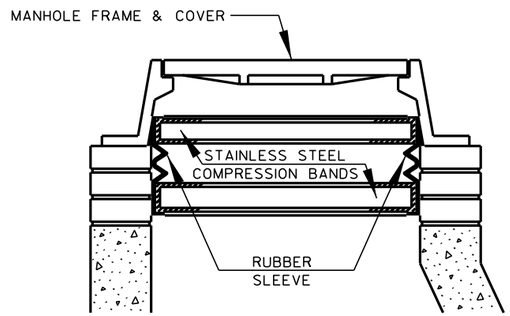
NOTE: ALL EXTERIOR EDGES SHALL BE GROUND.



MANHOLE FRAME - TYPE MS21

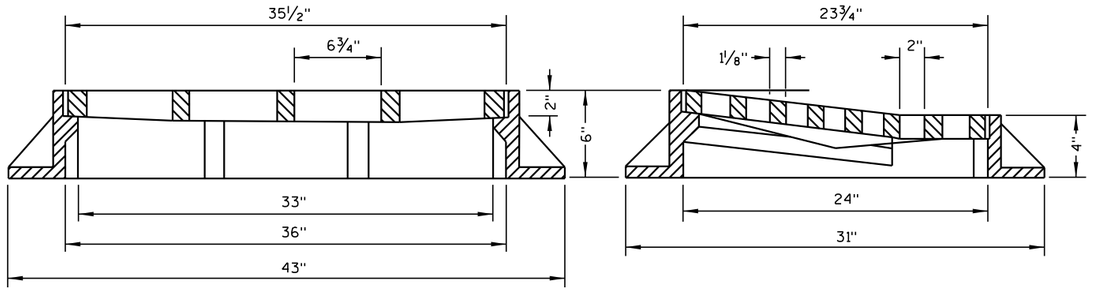
FRAME - 182 LBS.

MANHOLE COVER-TYPE 58-A

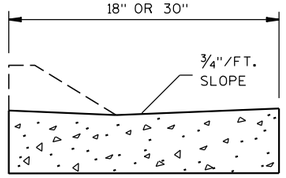


INTERNAL SANITARY MANHOLE SEAL

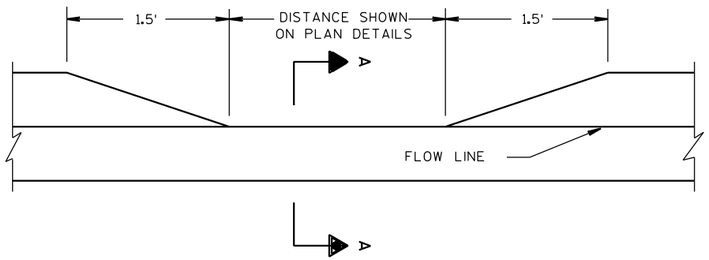
TOTAL WEIGHT APPROXIMATELY 420 POUNDS



INLET COVERS TYPE H-D



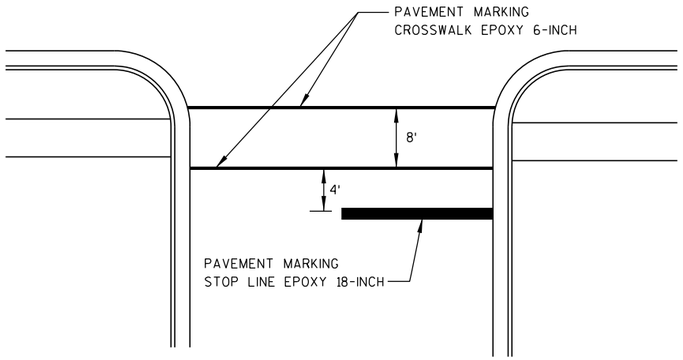
SECTION A-A



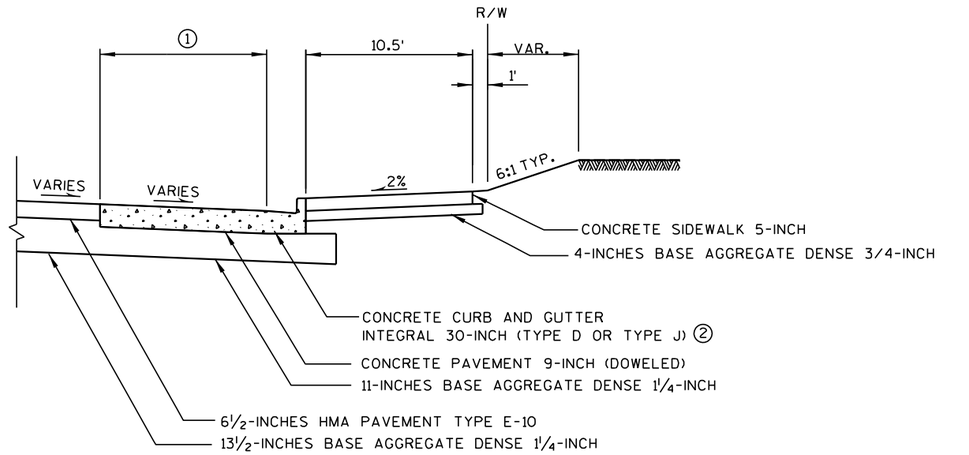
DETAIL OF CURB HEAD DEPRESSION FOR CURB & GUTTER SECTION AT ENERGY ABSORBING TERMINAL

	HYDROLOGIC SOIL GROUP											
	A			B			C			D		
	SLOPE RANGE (PERCENT)			SLOPE RANGE (PERCENT)			SLOPE RANGE (PERCENT)			SLOPE RANGE (PERCENT)		
LAND USE:	0-2	2-6	6 & OVER	0-2	2-6	6 & OVER	0-2	2-6	6 & OVER	0-2	2-6	6 & OVER
ROW CROPS	.08 .22	.16 .30	.22 .38	.12 .26	.20 .34	.27 .44	.15 .30	.24 .37	.33 .50	.19 .34	.28 .41	.38 .56
MEDIAN STRIP-TURF	.19 .24	.20 .26	.24 .30	.19 .25	.22 .28	.26 .33	.20 .26	.23 .30	.30 .37	.20 .27	.25 .32	.30 .40
SIDE SLOPE-TURF			.25 .32			.27 .34			.28 .36			.30 .38
PAVEMENT:												
ASPHALT	.70 - .95											
CONCRETE	.80 - .95											
BRICK	.70 - .80											
DRIVES, WALKS	.75 - .85											
ROOFS	.75 - .95											
GRAVEL ROADS, SHOULDERS	.40 - .60											

TOTAL PROJECT AREA = 68.9 ACRES
TOTAL AREA EXPECTED TO BE DISTURBED BY CONSTRUCTION ACTIVITIES = 49.9 ACRES



STOP LINE AND CROSSWALK



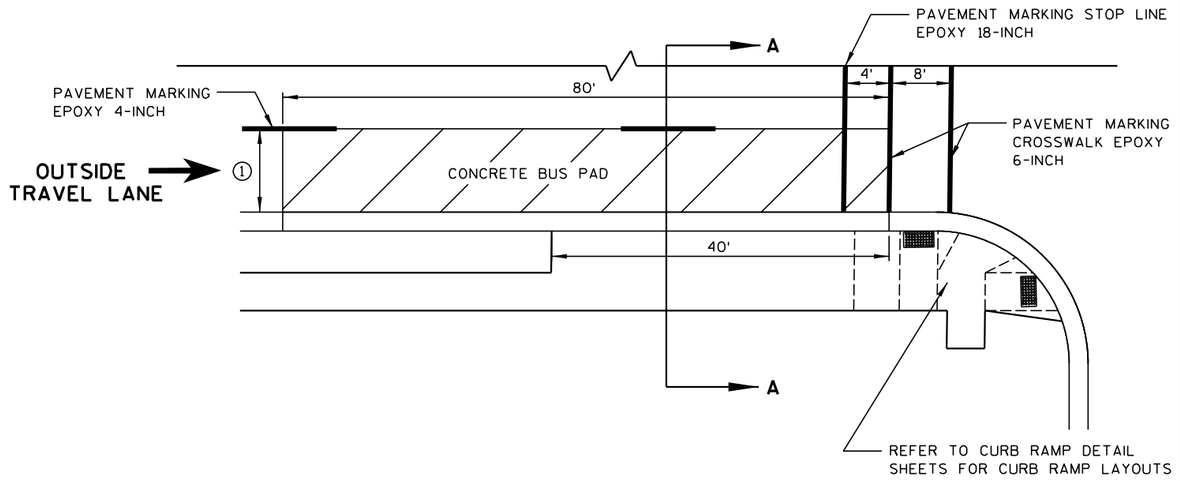
SECTION A-A

① 11' FROM STA. 140+00 - STA. 206+12
12' FROM STA. 206+12 - STA. 281+00

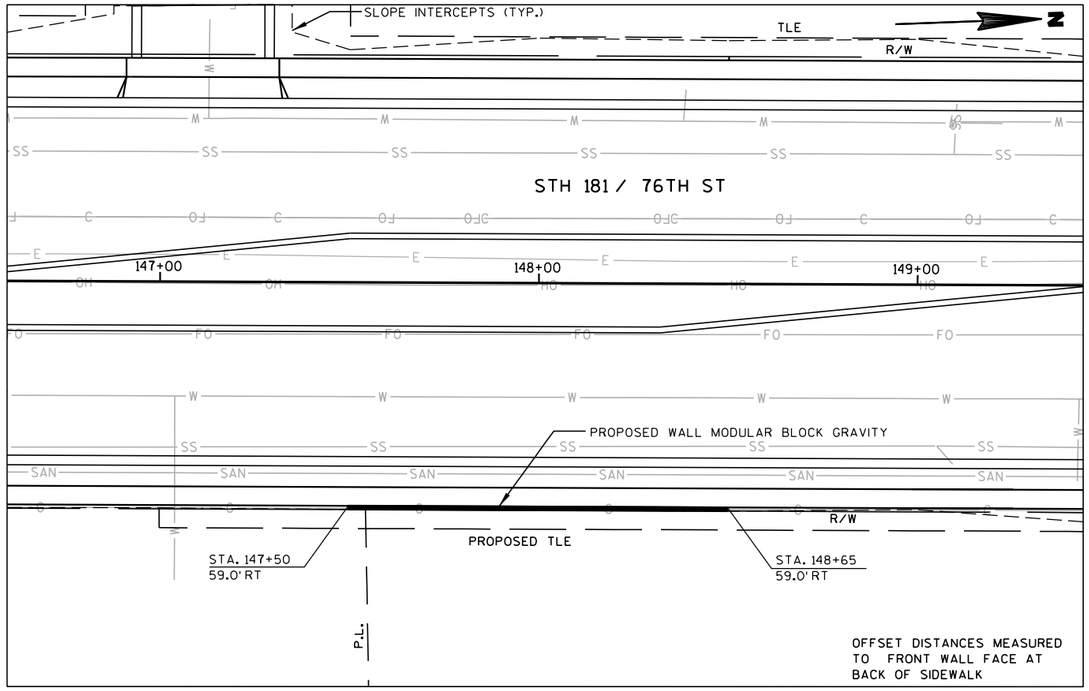
② CONCRETE CURB AND GUTTER
INTEGRAL 30-INCH TYPE D
FROM STA. 140+00 - STA. 206+12

CONCRETE CURB AND GITTER
INTEGRAL 30-INCH TYPE J
FROM STA. 206+12 - STA. 281+00

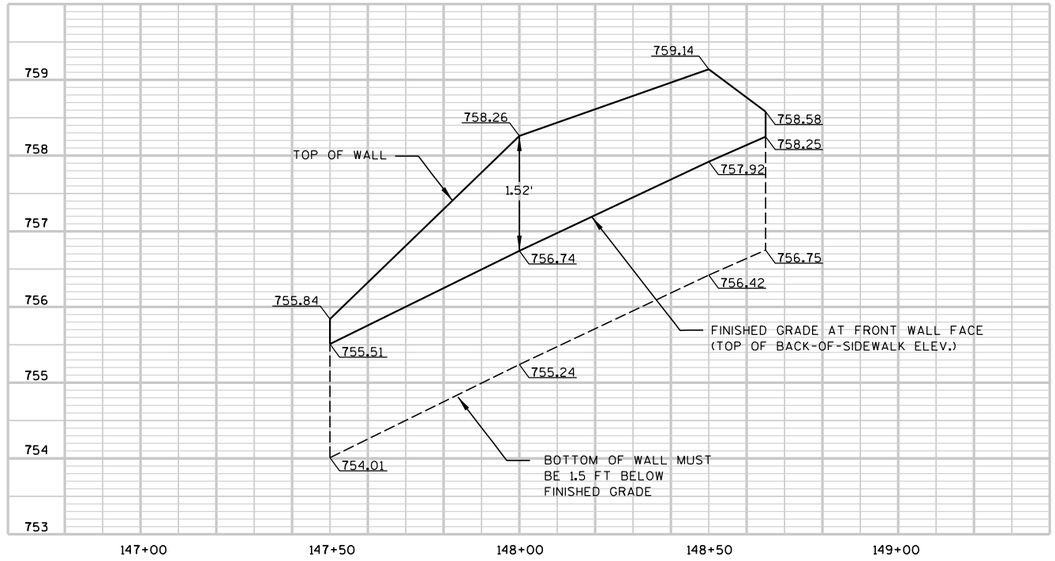
STH 181



CONCRETE BUS PAD AND ADJACENT TERRACE SIDEWALK DETAIL



PLAN VIEW



ELEVATION VIEW

WALL MODULAR BLOCK GRAVITY, STATION 148+00 (RT)

DESIGN DATA

THE CONTRACTOR SHALL PROVIDE COMPLETE DESIGN, PLANS, DETAILS, SPECIFICATIONS, AND SHOP DRAWINGS FOR THE RETAINING WALLS IN ACCORDANCE WITH THE SPECIAL PROVISIONS. THE RETAINING WALL MANUFACTURER SHALL PROVIDE TECHNICAL ASSISTANCE TO THE CONTRACTOR DURING CONSTRUCTION. THE COST OF FURNISHING THESE ITEMS SHALL BE INCLUDED IN THE BID ITEM WALL MODULAR BLOCK GRAVITY.

PLANS, ELEVATION AND DETAILS SHOWN ON THESE DRAWINGS ARE INTENDED TO INDICATE WALL LOCATIONS, LENGTHS, HEIGHTS, AND DETAILS COMMON TO THE WALL SYSTEM SELECTED. THE CONTRACTOR SHALL VERIFY THAT THE WALL SYSTEM SELECTED WILL CONFORM TO THE REQUIRED ALIGNMENTS AND DETAILS.

THE RETAINING WALL IS TO BE DESIGNED USING THE ELEVATIONS GIVEN ON THIS SHEET.

DESIGN FOR RETAINING WALL TO PROVIDE FOR FINISHED GRADE SLOPED BEHIND WALL AS SHOWN.

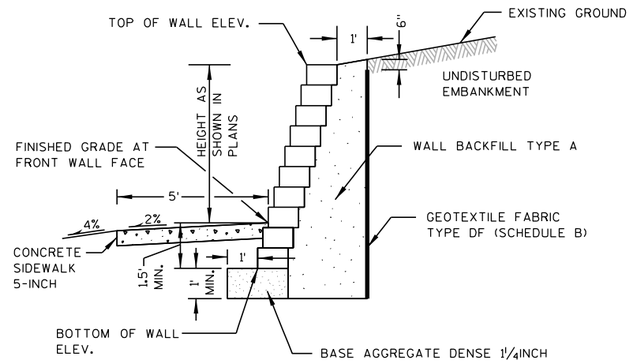
THE COLOR AND SURFACE TEXTURE OF THE BLOCK SHALL BE AS APPROVED BY THE ENGINEER.

GENERAL NOTES

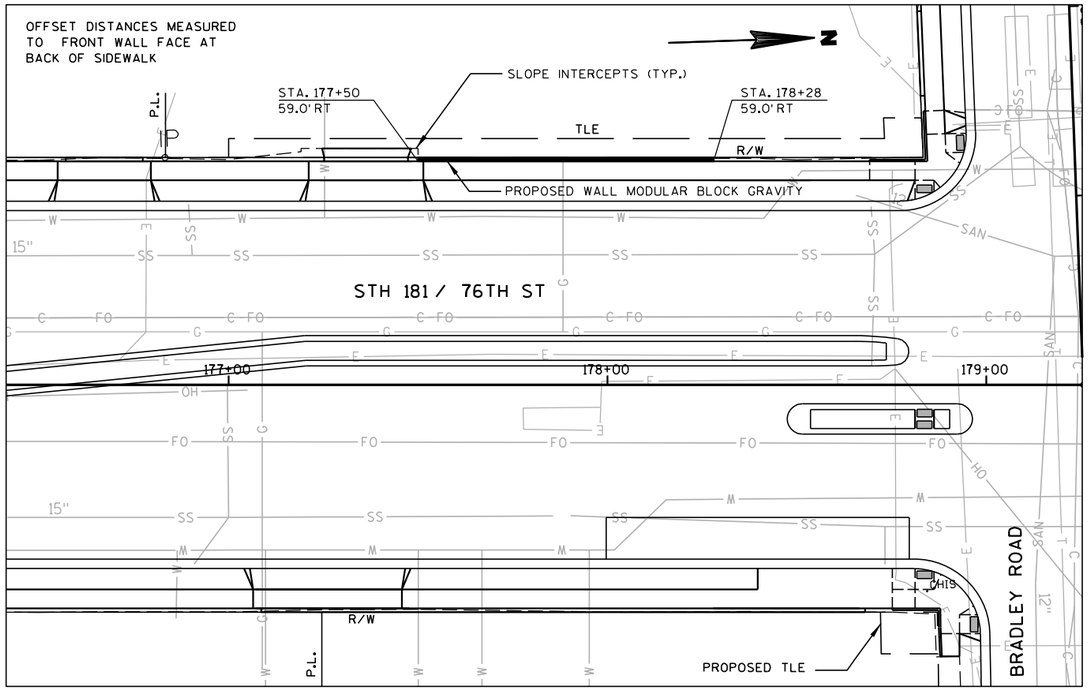
DRAWINGS SHALL NOT BE SCALED.

SOIL PARAMETERS

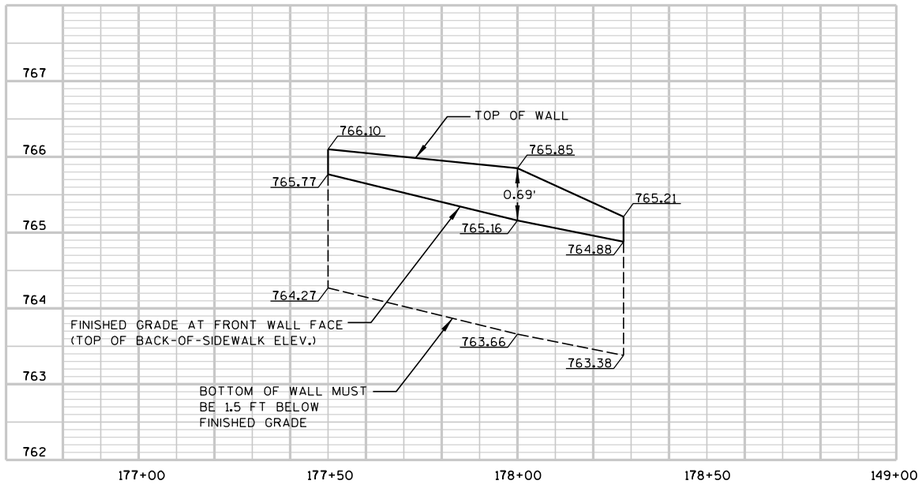
SOIL DESCRIPTIONS	UNIT WEIGHT (PCF)	FRICTION ANGLE (DEGREES)	COHESION (PSF)	ULTIMATE BEARING CAPACITIY (PSF)
WALL BACKFILL	115	30	0	---
RETAINED SOIL	100	20	1000	2000



TYPICAL SECTION



PLAN VIEW



ELEVATION VIEW

DESIGN DATA

THE CONTRACTOR SHALL PROVIDE COMPLETE DESIGN, PLANS, DETAILS, SPECIFICATIONS, AND SHOP DRAWINGS FOR THE RETAINING WALLS IN ACCORDANCE WITH THE SPECIAL PROVISIONS. THE RETAINING WALL MANUFACTURER SHALL PROVIDE TECHNICAL ASSISTANCE TO THE CONTRACTOR DURING CONSTRUCTION. THE COST OF FURNISHING THESE ITEMS SHALL BE INCLUDED IN THE BID ITEM WALL MODULAR BLOCK GRAVITY.

PLANS, ELEVATION AND DETAILS SHOWN ON THESE DRAWINGS ARE INTENDED TO INDICATE WALL LOCATIONS, LENGTHS, HEIGHTS, AND DETAILS COMMON TO THE WALL SYSTEM SELECTED. THE CONTRACTOR SHALL VERIFY THAT THE WALL SYSTEM SELECTED WILL CONFORM TO THE REQUIRED ALIGNMENTS AND DETAILS.

THE RETAINING WALL IS TO BE DESIGNED USING THE ELEVATIONS GIVEN ON THIS SHEET.

DESIGN FOR RETAINING WALL TO PROVIDE FOR FINISHED GRADE SLOPED BEHIND WALL AS SHOWN.

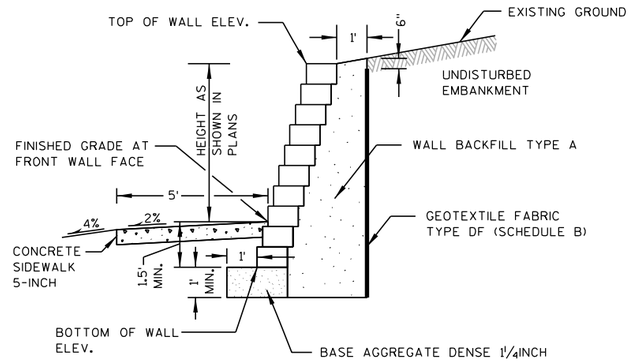
THE COLOR AND SURFACE TEXTURE OF THE BLOCK SHALL BE AS APPROVED BY THE ENGINEER.

GENERAL NOTES

DRAWINGS SHALL NOT BE SCALED.

SOIL PARAMETERS

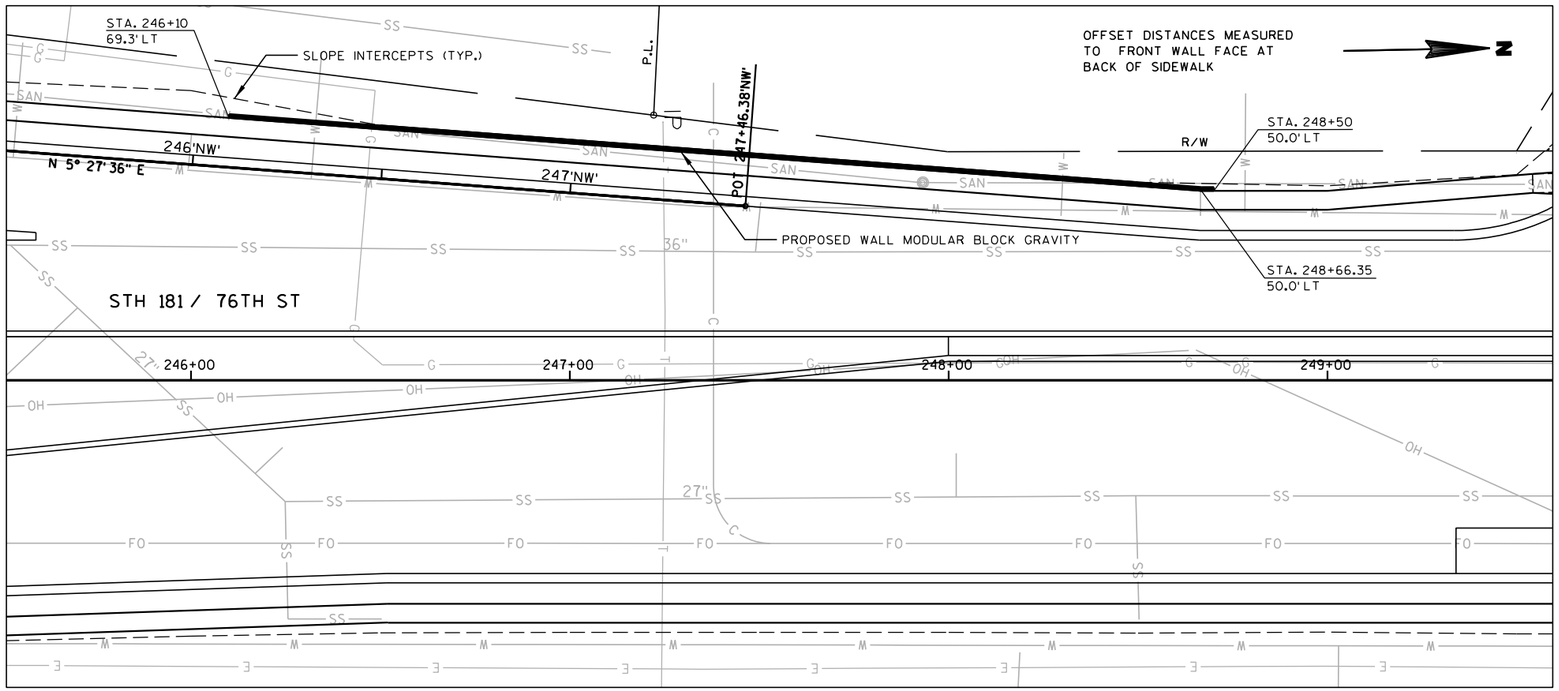
SOIL DESCRIPTIONS	UNIT WEIGHT (PCF)	FRICTION ANGLE (DEGREES)	COHESION (PSF)	ULTIMATE BEARING CAPACITIY (PSF)
WALL BACKFILL	115	30	0	---
RETAINED SOIL	100	20	1000	2000



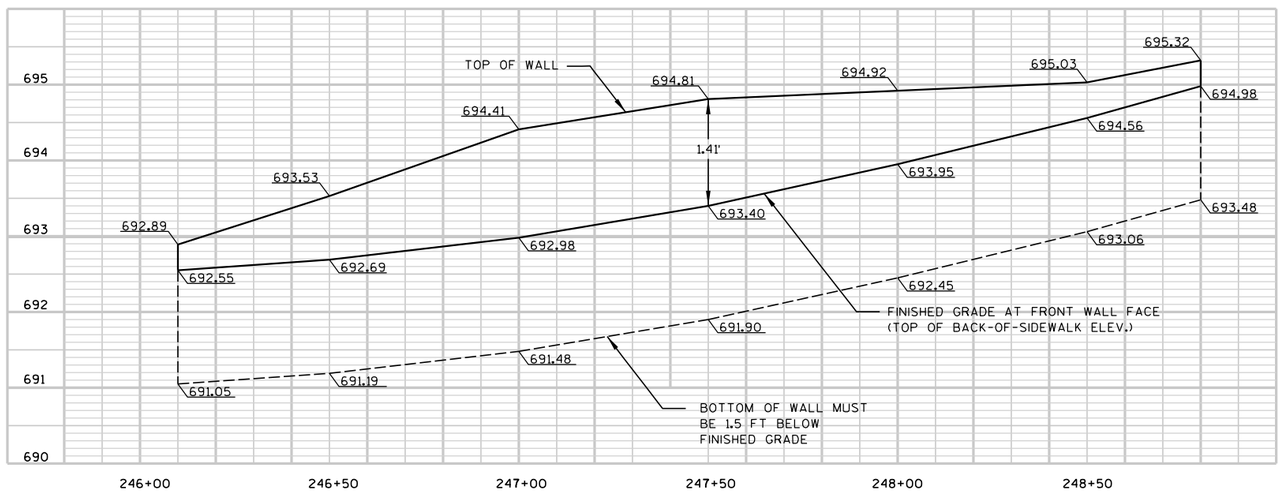
TYPICAL SECTION

WALL MODULAR BLOCK GRAVITY, STATION 177+75 (LT)

PROJECT NO: 2140-08-73	HWY: STH 181	COUNTY: MILWAUKEE	CONSTRUCTION DETAILS	SHEET 32	E



PLAN VIEW



ELEVATION VIEW

WALL MODULAR BLOCK GRAVITY, STATION 247+50 (LT)

DESIGN DATA

THE CONTRACTOR SHALL PROVIDE COMPLETE DESIGN, PLANS, DETAILS, SPECIFICATIONS, AND SHOP DRAWINGS FOR THE RETAINING WALLS IN ACCORDANCE WITH THE SPECIAL PROVISIONS. THE RETAINING WALL MANUFACTURER SHALL PROVIDE TECHNICAL ASSISTANCE TO THE CONTRACTOR DURING CONSTRUCTION. THE COST OF FURNISHING THESE ITEMS SHALL BE INCLUDED IN THE BID ITEM WALL MODULAR BLOCK GRAVITY.

PLANS, ELEVATION AND DETAILS SHOWN ON THESE DRAWINGS ARE INTENDED TO INDICATE WALL LOCATIONS, LENGTHS, HEIGHTS, AND DETAILS COMMON TO THE WALL SYSTEM SELECTED. THE CONTRACTOR SHALL VERIFY THAT THE WALL SYSTEM SELECTED WILL CONFORM TO THE REQUIRED ALIGNMENTS AND DETAILS.

THE RETAINING WALL IS TO BE DESIGNED USING THE ELEVATIONS GIVEN ON THIS SHEET.

DESIGN FOR RETAINING WALL TO PROVIDE FOR FINISHED GRADE SLOPED BEHIND WALL AS SHOWN.

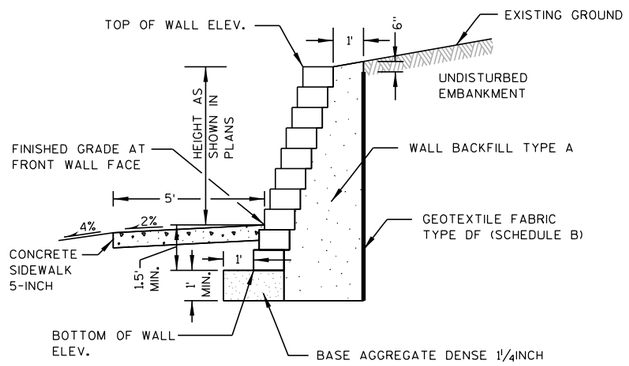
THE COLOR AND SURFACE TEXTURE OF THE BLOCK SHALL BE AS APPROVED BY THE ENGINEER.

GENERAL NOTES

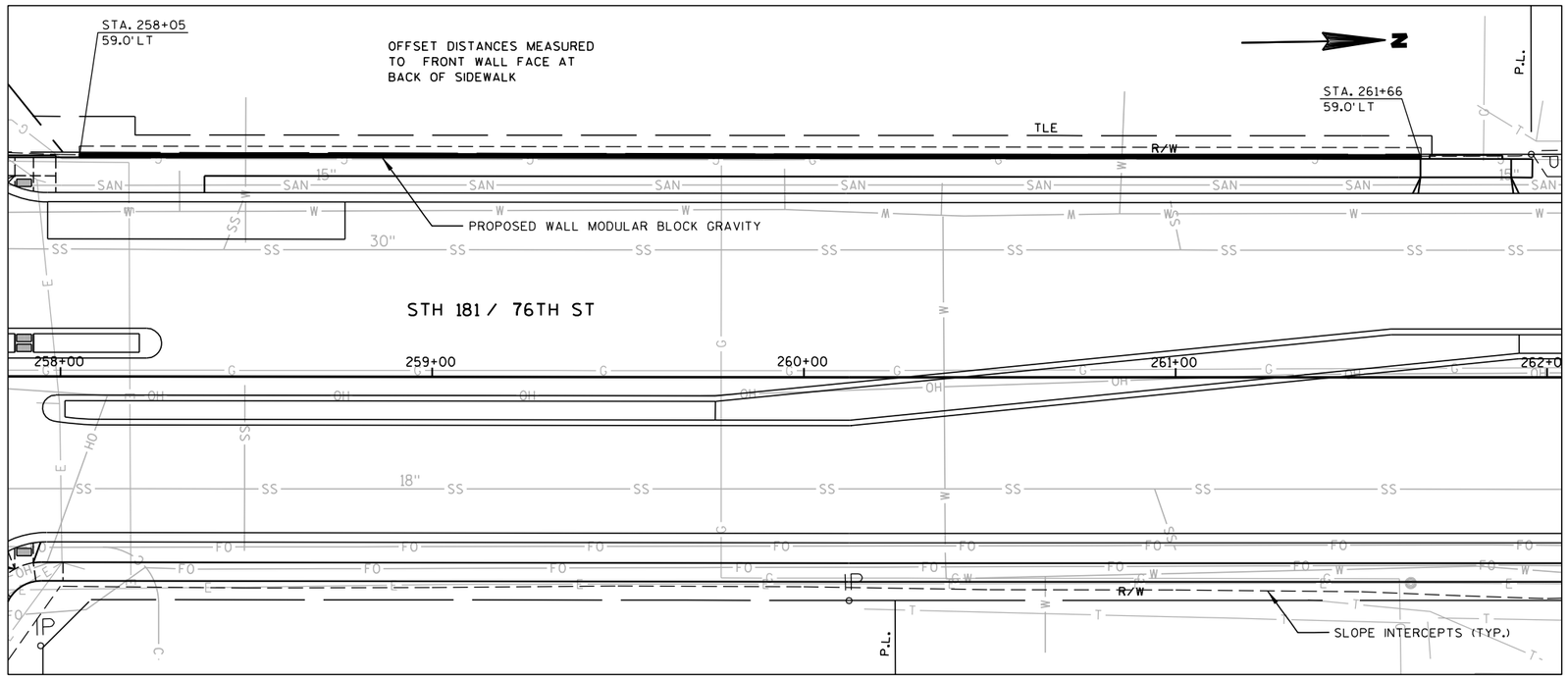
DRAWINGS SHALL NOT BE SCALED.

SOIL PARAMETERS

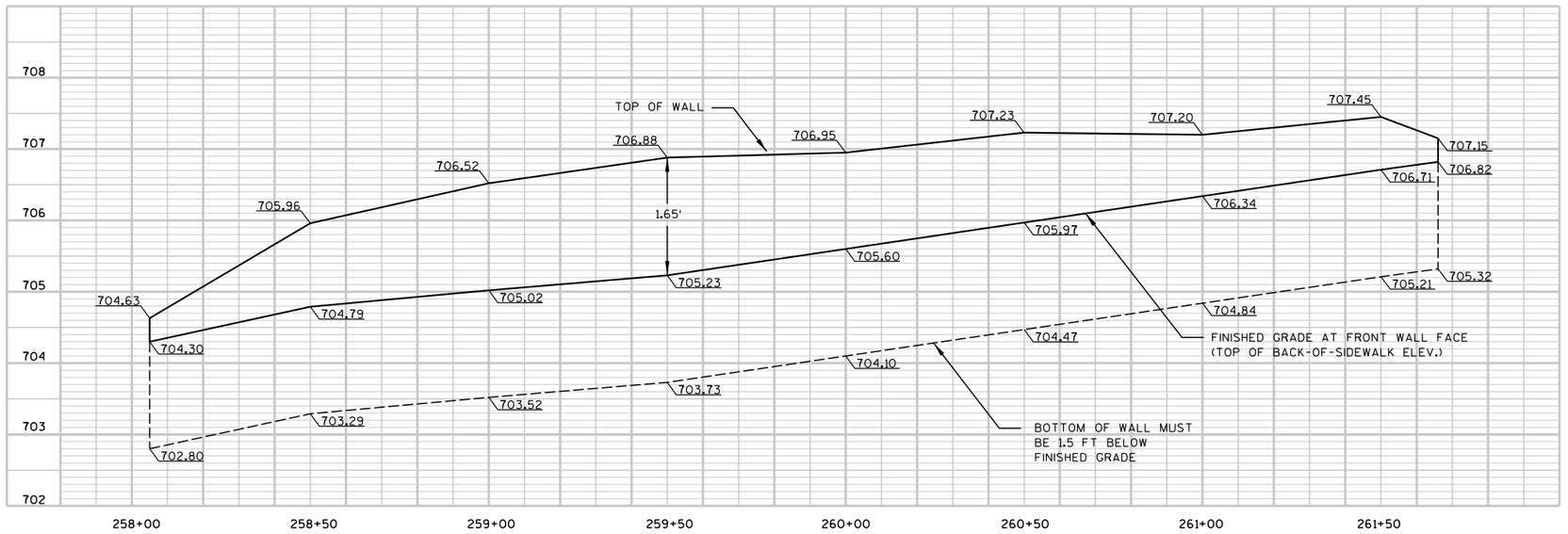
SOIL DESCRIPTIONS	UNIT WEIGHT (PCF)	FRICTION ANGLE (DEGREES)	COHESION (PSF)	ULTIMATE BEARING CAPACITIY (PSF)
WALL BACKFILL	115	30	0	---
RETAINED SOIL	100	20	1000	2000



TYPICAL SECTION



PLAN VIEW



ELEVATION VIEW

DESIGN DATA

THE CONTRACTOR SHALL PROVIDE COMPLETE DESIGN, PLANS, DETAILS, SPECIFICATIONS, AND SHOP DRAWINGS FOR THE RETAINING WALLS IN ACCORDANCE WITH THE SPECIAL PROVISIONS. THE RETAINING WALL MANUFACTURER SHALL PROVIDE TECHNICAL ASSISTANCE TO THE CONTRACTOR DURING CONSTRUCTION. THE COST OF FURNISHING THESE ITEMS SHALL BE INCLUDED IN THE BID ITEM WALL MODULAR BLOCK GRAVITY.

PLANS, ELEVATION AND DETAILS SHOWN ON THESE DRAWINGS ARE INTENDED TO INDICATE WALL LOCATIONS, LENGTHS, HEIGHTS, AND DETAILS COMMON TO THE WALL SYSTEM SELECTED. THE CONTRACTOR SHALL VERIFY THAT THE WALL SYSTEM SELECTED WILL CONFORM TO THE REQUIRED ALIGNMENTS AND DETAILS.

THE RETAINING WALL IS TO BE DESIGNED USING THE ELEVATIONS GIVEN ON THIS SHEET.

DESIGN FOR RETAINING WALL TO PROVIDE FOR FINISHED GRADE SLOPED BEHIND WALL AS SHOWN.

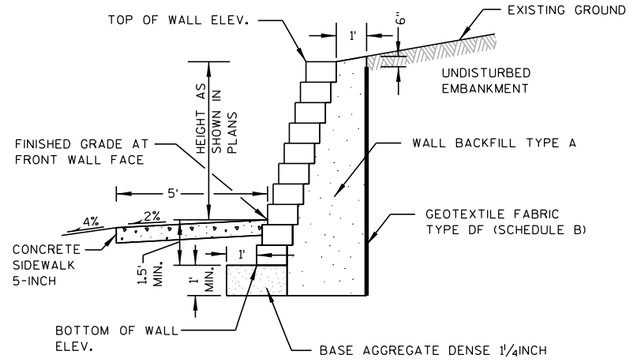
THE COLOR AND SURFACE TEXTURE OF THE BLOCK SHALL BE AS APPROVED BY THE ENGINEER.

GENERAL NOTES

DRAWINGS SHALL NOT BE SCALED.

SOIL PARAMETERS

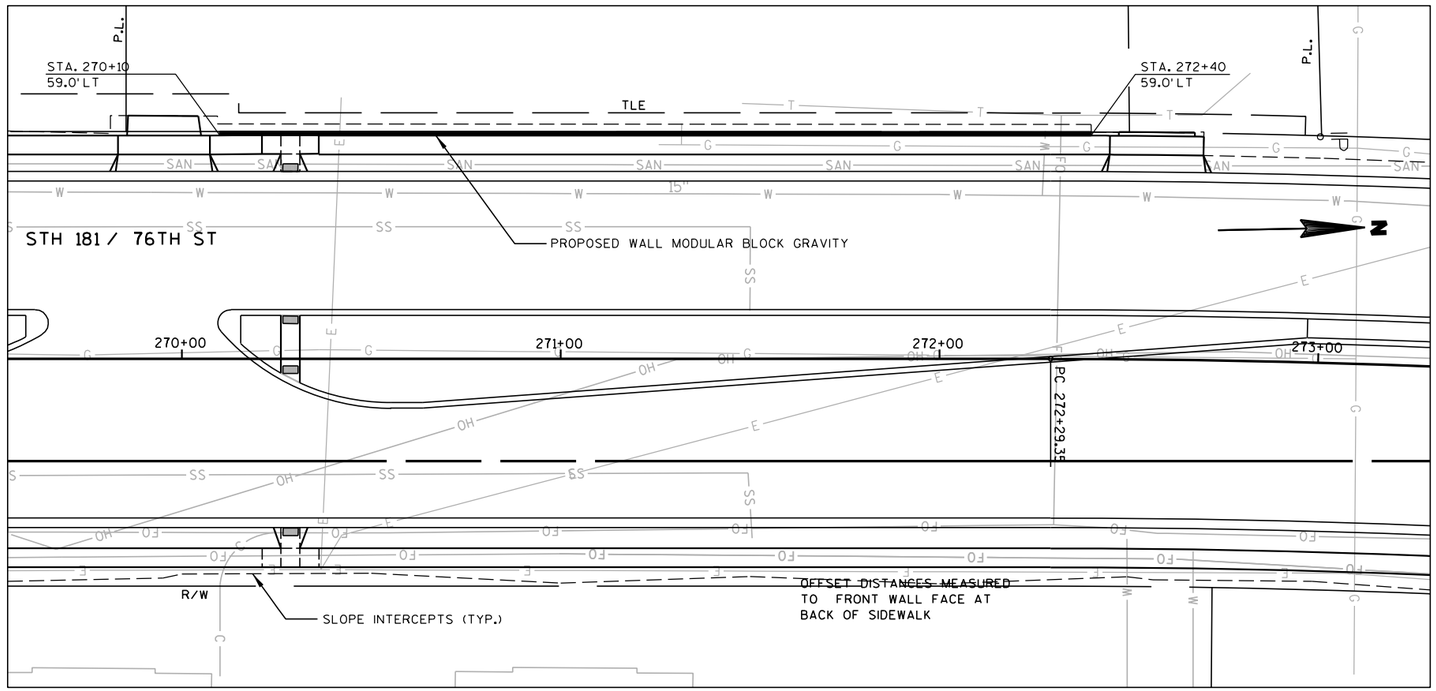
SOIL DESCRIPTIONS	UNIT WEIGHT (PCF)	FRICTION ANGLE (DEGREES)	COHESION (PSF)	ULTIMATE BEARING CAPACITIY (PSF)
WALL BACKFILL	115	30	0	---
RETAINED SOIL	100	20	1000	2000



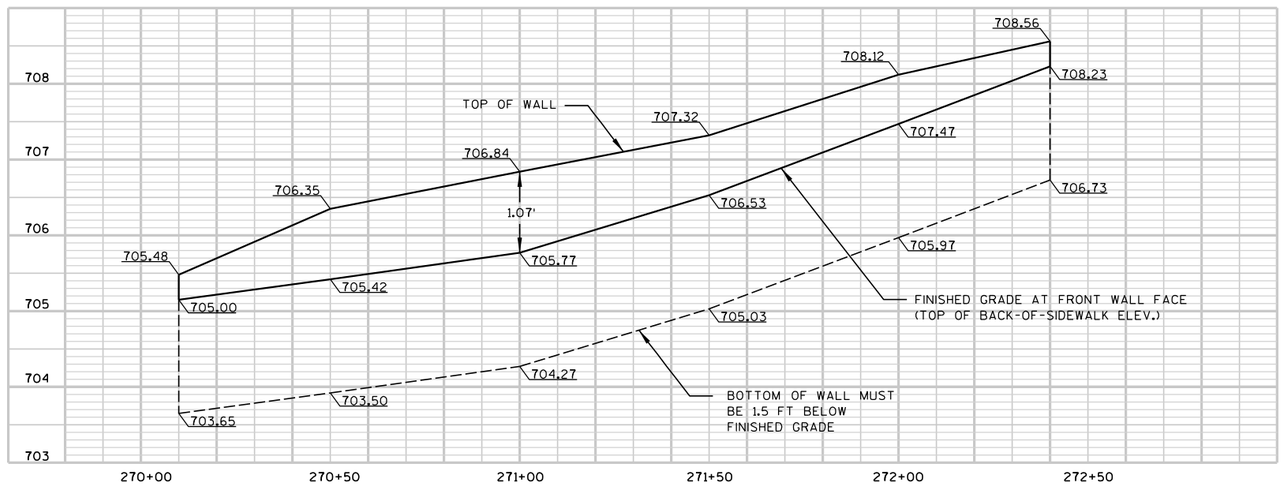
TYPICAL SECTION

WALL MODULAR BLOCK GRAVITY, STATION 260+00 (LT)

PROJECT NO:2140-08-73	HWY: STH 181	COUNTY: MILWAUKEE	CONSTRUCTION DETAILS	SHEET 34	E



PLAN VIEW



ELEVATION VIEW

WALL MODULAR BLOCK GRAVITY, STATION 271+25 (LT)

DESIGN DATA

THE CONTRACTOR SHALL PROVIDE COMPLETE DESIGN, PLANS, DETAILS, SPECIFICATIONS, AND SHOP DRAWINGS FOR THE RETAINING WALLS IN ACCORDANCE WITH THE SPECIAL PROVISIONS. THE RETAINING WALL MANUFACTURER SHALL PROVIDE TECHNICAL ASSISTANCE TO THE CONTRACTOR DURING CONSTRUCTION. THE COST OF FURNISHING THESE ITEMS SHALL BE INCLUDED IN THE BID ITEM WALL MODULAR BLOCK GRAVITY.

PLANS, ELEVATION AND DETAILS SHOWN ON THESE DRAWINGS ARE INTENDED TO INDICATE WALL LOCATIONS, LENGTHS, HEIGHTS, AND DETAILS COMMON TO THE WALL SYSTEM SELECTED. THE CONTRACTOR SHALL VERIFY THAT THE WALL SYSTEM SELECTED WILL CONFORM TO THE REQUIRED ALIGNMENTS AND DETAILS.

THE RETAINING WALL IS TO BE DESIGNED USING THE ELEVATIONS GIVEN ON THIS SHEET.

DESIGN FOR RETAINING WALL TO PROVIDE FOR FINISHED GRADE SLOPED BEHIND WALL AS SHOWN.

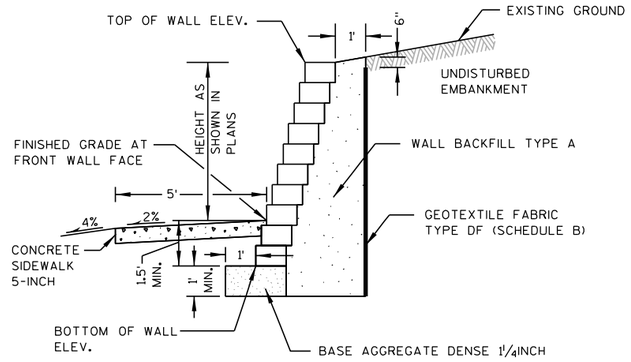
THE COLOR AND SURFACE TEXTURE OF THE BLOCK SHALL BE AS APPROVED BY THE ENGINEER.

GENERAL NOTES

DRAWINGS SHALL NOT BE SCALED.

SOIL PARAMETERS

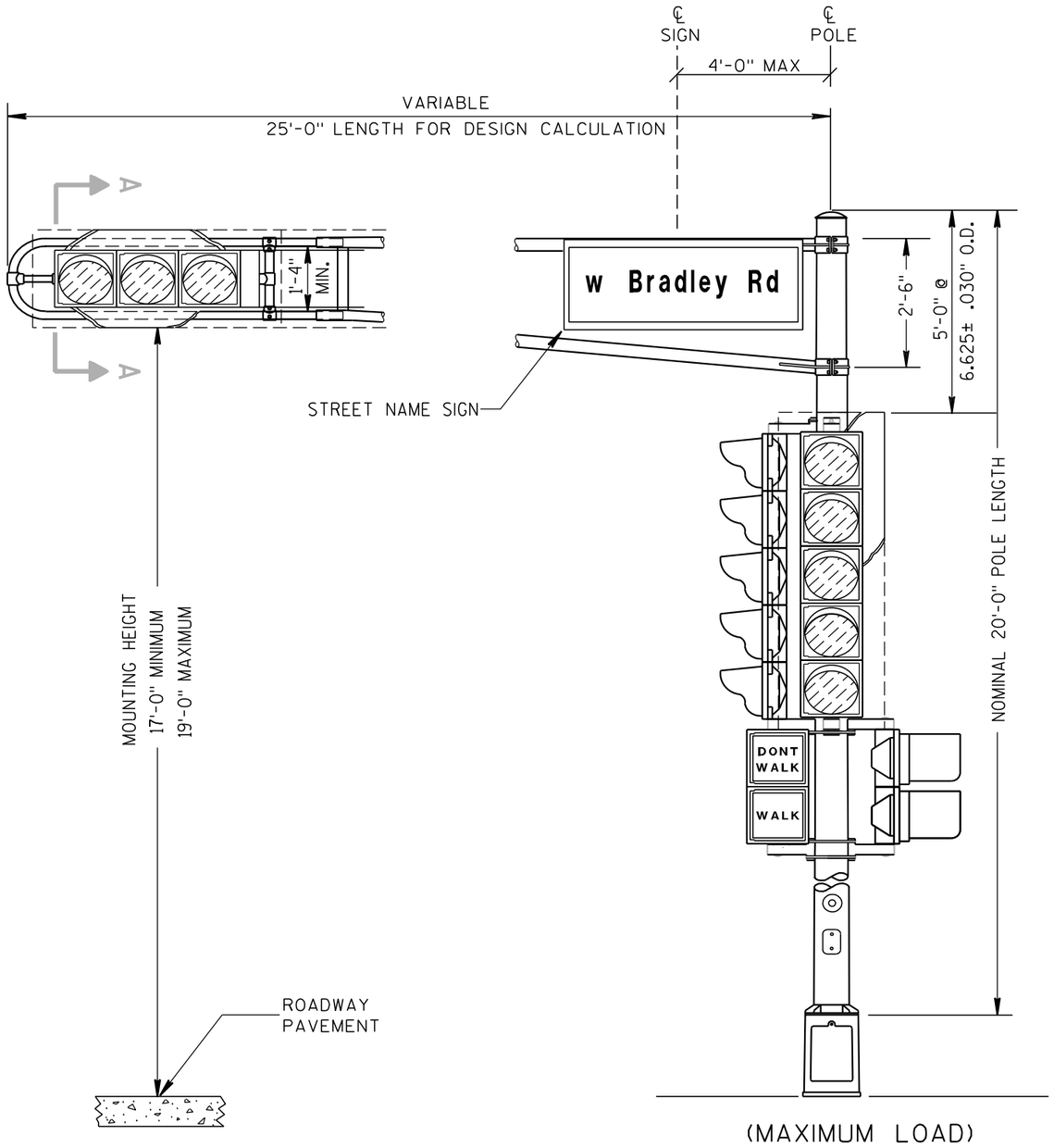
SOIL DESCRIPTIONS	UNIT WEIGHT (PCF)	FRICTION ANGLE (DEGREES)	COHESION (PSF)	ULTIMATE BEARING CAPACITIY (PSF)
WALL BACKFILL	115	30	0	---
RETAINED SOIL	100	20	1000	2000



TYPICAL SECTION

PROJECT NO: 2140-08-73	HWY: STH 181	COUNTY: MILWAUKEE	CONSTRUCTION DETAILS	SHEET 35	E

NOTE: STREET NAME SIGN ALLOWED IF 3 SIGNAL HEADS, NOT IF 4 OR 5 SIGNAL HEADS.

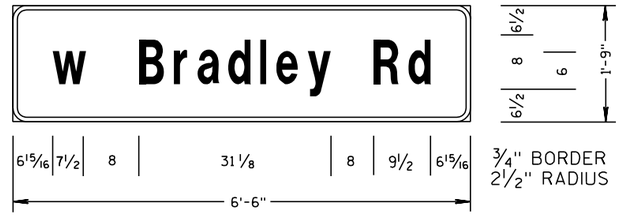


STREET NAME SIGN MOUNTED ON SIGNAL POLE ARM

SIGN SPECS

MAXIMUM SIGN AREA 14'-0" SQ. FEET
8" UPPER CASE SERIES C LETTERS
6" LOWER CASE SERIES C LETTERS
GREEN BACKGROUND
WHITE LETTERS
HI SHEETING
TYPE II SIGN
WISCONSIN STANDARD SPECIFICATION 2006 TO BE FOLLOWED FOR ATTACHING SIGN TO TROMBONE ARM.

SIGN DETAIL
(TYPICAL)



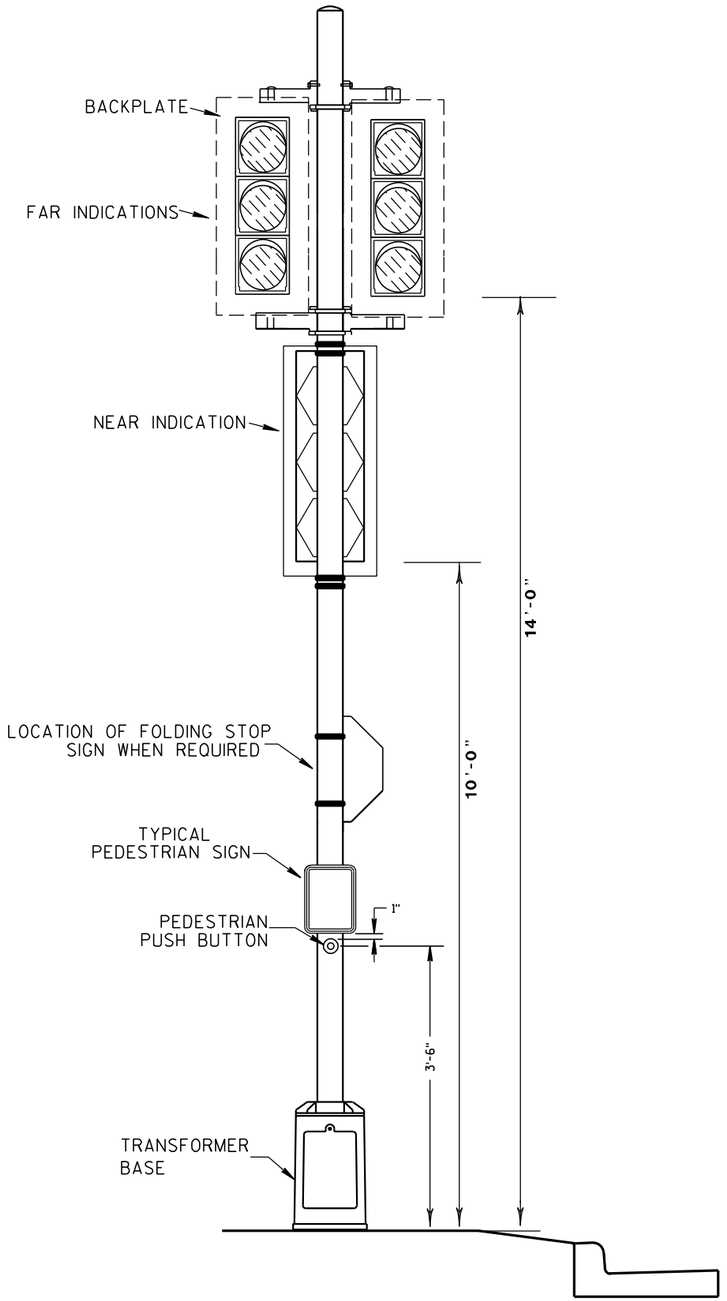
SERIES C
GREEN/WHITE
HI SHEETING
TYPE II

GENERAL NOTES:

1. DETAILS OF CONSTRUCTION, MATERIALS, AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS, THE SPECIAL PROVISIONS, AND THE PLANS.
2. SEE SIGN LAYOUT DETAILS SHEET FOR SIGN DETAILS

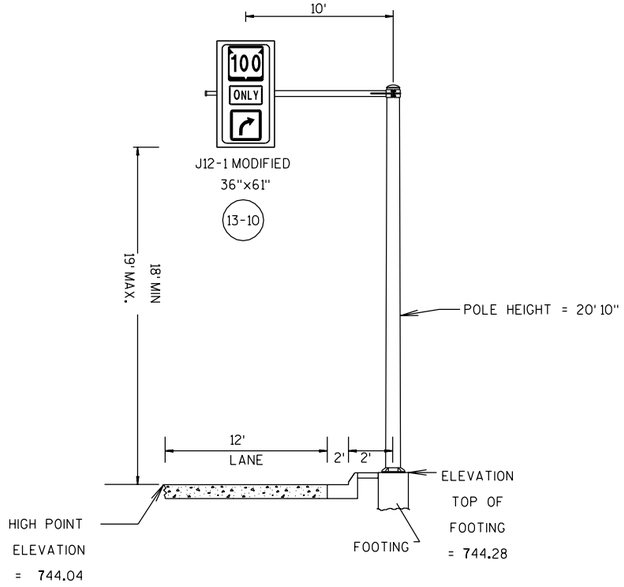
PROJECT NO: 2140-08-73	HWY: STH 181	COUNTY: MILWAUKEE	CONSTRUCTION DETAILS	SHEET 36	E

2

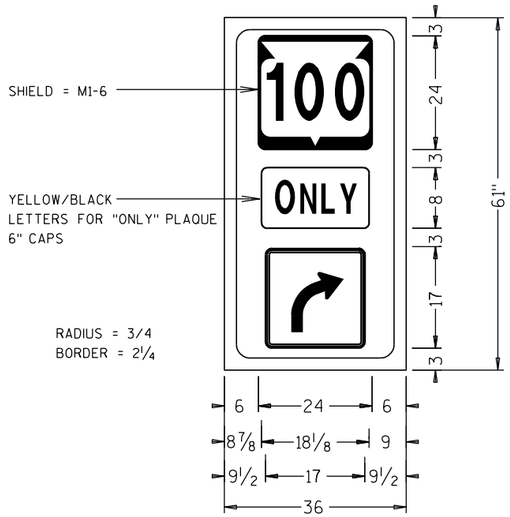


DUAL FAR INDICATIONS
MOUNTED WITH NEAR INDICATION
20-FOOT POLE, TYPE 2 CONCRETE BASE

PROJECT NO:2140-08-73	HWY: STH 181	COUNTY: MILWAUKEE	CONSTRUCTION DETAIL	SHEET 37	E



OVERHEAD SIGN SUPPORTS DETAIL
S-40-918
STA 214+00
STH 181



SIGN: GREEN BACKGROUND
WHITE LETTERS
SERIES C LETTERS

OVERHEAD SIGN SUPPORT DETAIL, STATION 214+00 (RT)

NOTE, CONTRACTOR SHALL:
1.) SUBMIT SHOP DRAWINGS OF OVERHEAD SIGN SUPPORT. FOOTING IS INCIDENTAL TO OVERHEAD SIGN SUPPORT.
2.) PROVIDE DESIGN CALCULATIONS.
3.) SHOW SIGNS ON SHOP DRAWINGS.
4.) I.D. PLAQUE INCIDENTAL TO SIGN SUPPORT

GENERAL NOTES

DRAWINGS NOT TO SCALE

CONTRACTOR TO DESIGN CONCRETE SUPPORT

SEE S.D.D. 30" DIAMETER CANTILEVER OVERHEAD SIGN SUPPORT BASE FOR ADDITIONAL INFORMATION

DESIGN ACCORDING TO AASHTO "STANDARD SPECIFICATIONS FOR STRUCTURAL SUPPORTS FOR HIGHWAY SIGNS, LUMINAIRES AND TRAFFIC SIGNALS".

THE SIGN STRUCTURES SHALL BE DESIGNED TO SUPPORT THE SIGNS SHOWN.

WIND VELOCITY PER WISDOT STD SPECIFICATIONS

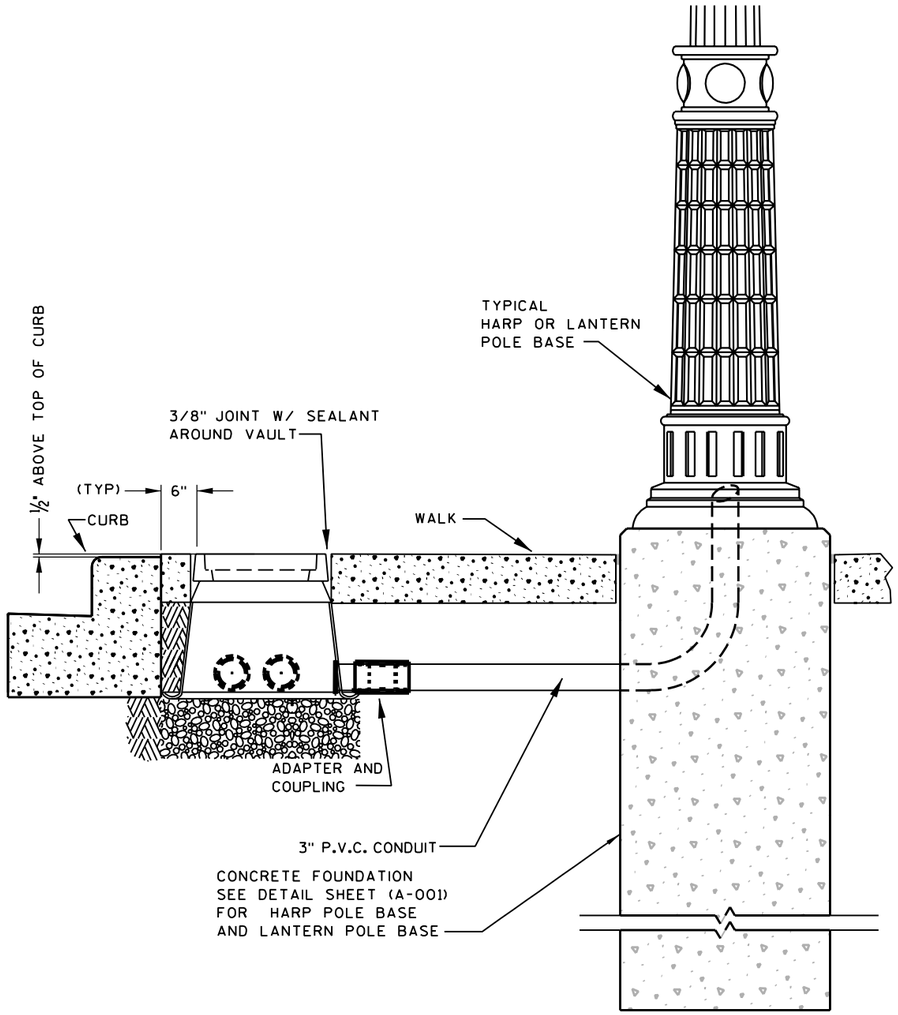
BAR STEEL REINFORCEMENT SHALL BE EMBEDDED 3" CLEAR UNLESS DETAILED OTHERWISE.

ALLOWABLE DESIGN STRESSES

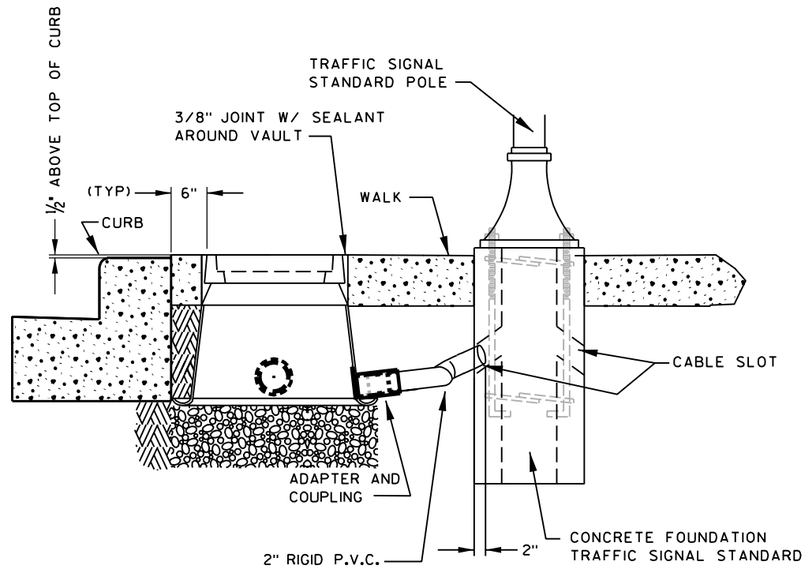
CONCRETE MASONRY	FC=3500 PSI
HIGH STRENGTH BAR STEEL REINFORCEMENT, GRADE 60	FY=60,000 PSI

FOUNDATION DATA

PRESUMPTIVE ALLOWABLE SOIL BEARING PRESSURE = 1500 PSF



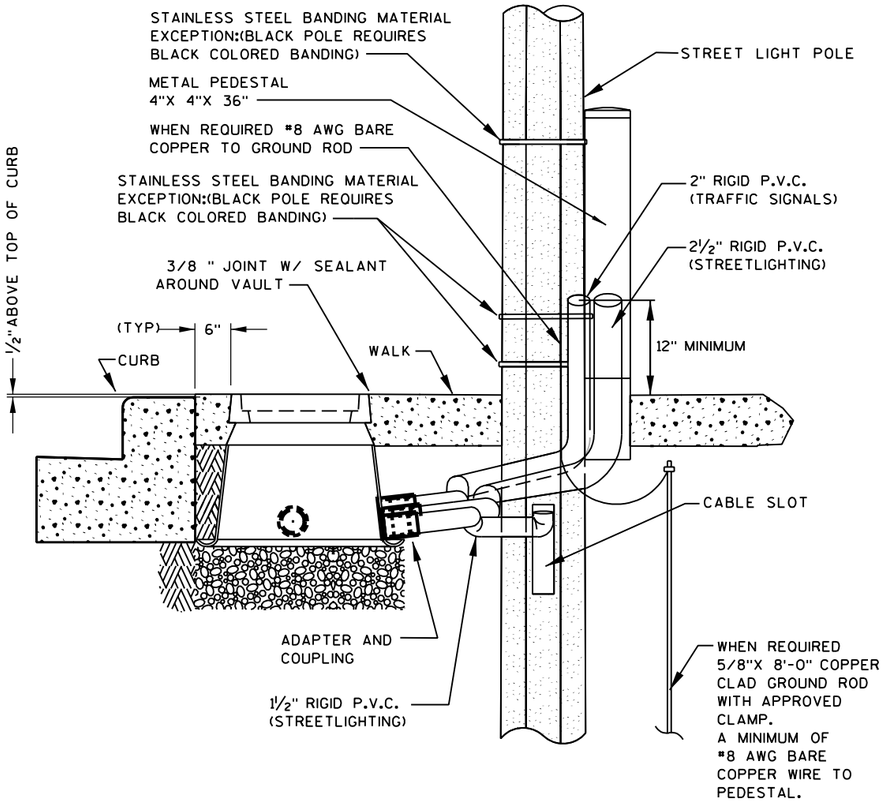
TYPICAL CONDUIT INSTALLATION FROM VAULT TO HARP OR LANTERN POLE BASE



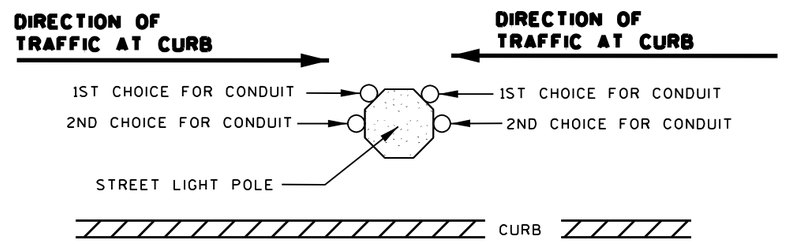
NOT TO SCALE

TYPICAL CONDUIT INSTALLATION FROM VAULT TO SIGNAL STANDARD

NOT TO SCALE



TYPICAL CONDUIT INSTALLATION FROM VAULT TO POLE



TRAFFIC RISER CONDUIT LOCATIONS ON STREET LIGHT POLE DEPENDING ON DIRECTION OF TRAFFIC AT CURB

NOT TO SCALE

2

CLINTON AVE.

U/C

MATCH LINE STA. 134+00

135+00

136+00

137+00

138+00

139+00

MATCH LINE STA. 140+00

10'

45

CS-5

46

44

11'

11'

11'

11'

STH 181 / 76TH ST

MINI GOLF COURSE

DATA TABLE

POINT #	NORTHING	EASTING	STATION	OFFSET	ELEVATION	REMARK
44	340922.58	580454.41	138+25.00	13.00	738.36	MATCH EXIST.
45	340922.89	580446.42	138+25.00	5.00	738.50	MATCH EXIST.
46	341006.29	580449.43	139+02.45	5.00	739.05	MATCH EXIST.

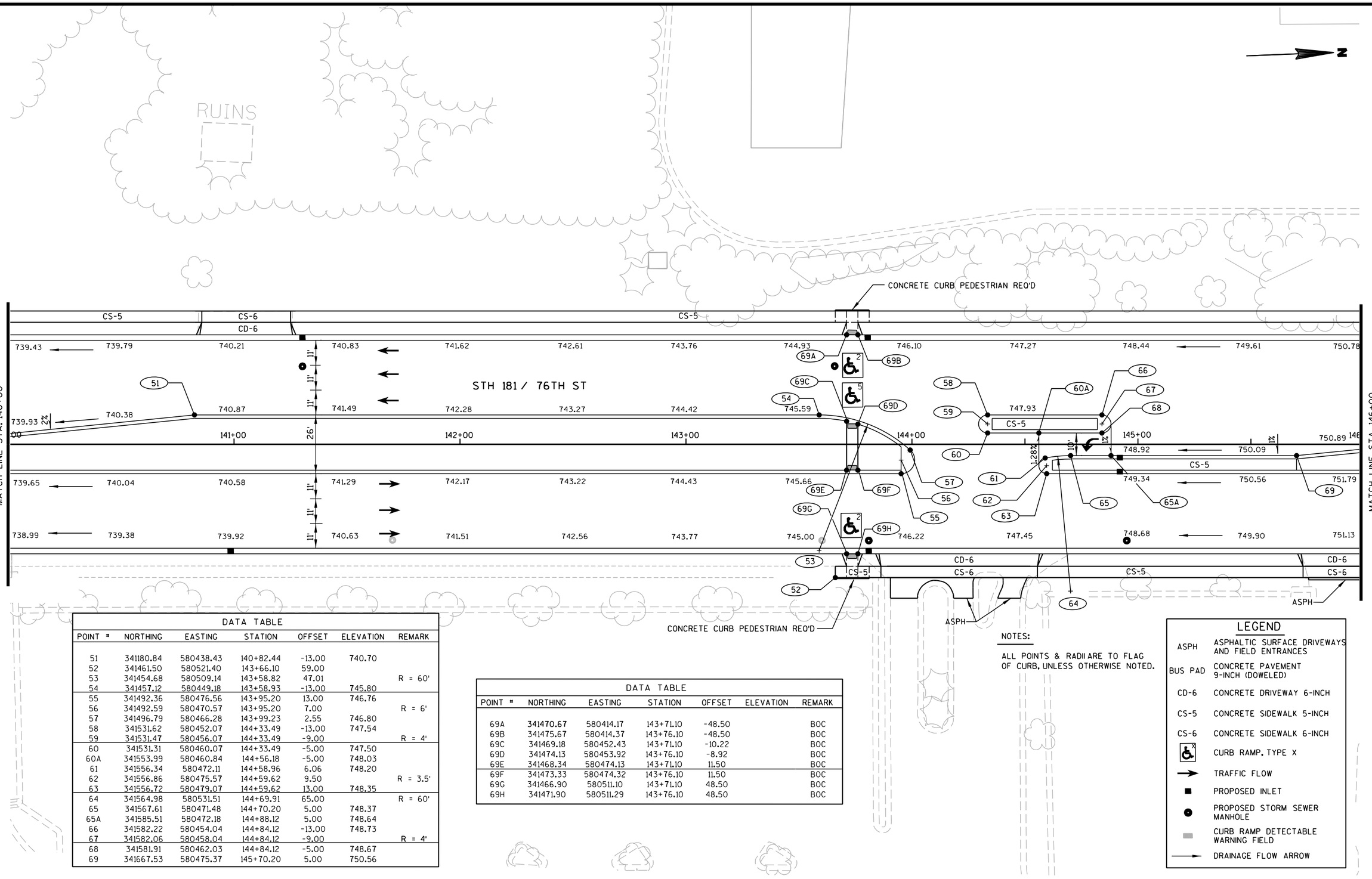
LEGEND

ASPH	ASPHALTIC SURFACE DRIVEWAYS AND FIELD ENTRANCES
BUS PAD	CONCRETE PAVEMENT 9-INCH (DOWELED)
CD-6	CONCRETE DRIVEWAY 6-INCH
CS-5	CONCRETE SIDEWALK 5-INCH
CS-6	CONCRETE SIDEWALK 6-INCH
	CURB RAMP, TYPE X
	TRAFFIC FLOW
	PROPOSED INLET
	PROPOSED STORM SEWER MANHOLE
	CURB RAMP DETECTABLE WARNING FIELD
	DRAINAGE FLOW ARROW

NOTES:

ALL POINTS & RADII ARE TO FLAG OF CURB, UNLESS OTHERWISE NOTED.

PROJECT NO: 2140-08-73	HWY: STH 181	COUNTY: MILWAUKEE	PLAN DETAILS	SHEET 41	E



DATA TABLE						
POINT #	NORTHING	EASTING	STATION	OFFSET	ELEVATION	REMARK
51	341180.84	580438.43	140+82.44	-13.00	740.70	
52	341461.50	580521.40	143+66.10	59.00		
53	341454.68	580509.14	143+58.82	47.01		R = 60'
54	341457.12	580449.18	143+58.93	-13.00	745.80	
55	341492.36	580476.56	143+95.20	13.00	746.76	
56	341492.59	580470.57	143+95.20	7.00		R = 6'
57	341496.79	580466.28	143+99.23	2.55	746.80	
58	341531.62	580452.07	144+33.49	-13.00	747.54	
59	341531.47	580456.07	144+33.49	-9.00		R = 4'
60	341531.31	580460.07	144+33.49	-5.00	747.50	
60A	341553.99	580460.84	144+56.18	-5.00	748.03	
61	341556.34	580472.11	144+58.96	6.06	748.20	
62	341556.86	580475.57	144+59.62	9.50		R = 3.5'
63	341556.72	580479.07	144+59.62	13.00	748.35	
64	341564.98	580531.51	144+69.91	65.00		R = 60'
65	341567.61	580471.48	144+70.20	5.00	748.37	
65A	341585.51	580472.18	144+88.12	5.00	748.64	
66	341582.22	580454.04	144+84.12	-13.00	748.73	
67	341582.06	580458.04	144+84.12	-9.00		R = 4'
68	341581.91	580462.03	144+84.12	-5.00	748.67	
69	341667.53	580475.37	145+70.20	5.00	750.56	

DATA TABLE						
POINT #	NORTHING	EASTING	STATION	OFFSET	ELEVATION	REMARK
69A	341470.67	580414.17	143+71.10	-48.50		BOC
69B	341475.67	580414.37	143+76.10	-48.50		BOC
69C	341469.18	580452.43	143+71.10	-10.22		BOC
69D	341474.13	580453.92	143+76.10	-8.92		BOC
69E	341468.34	580474.13	143+71.10	11.50		BOC
69F	341473.33	580474.32	143+76.10	11.50		BOC
69G	341466.90	580511.10	143+71.10	48.50		BOC
69H	341471.90	580511.29	143+76.10	48.50		BOC

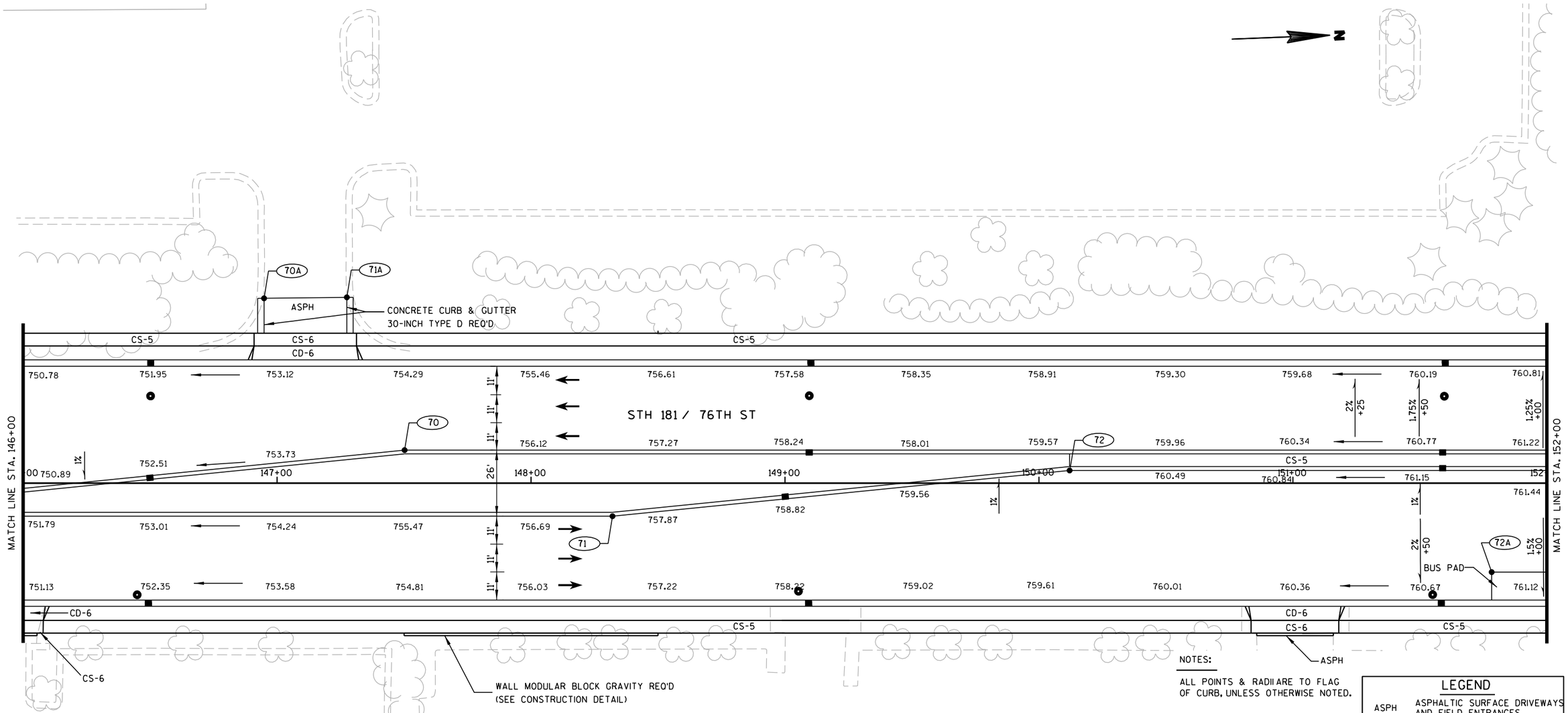
NOTES:

ALL POINTS & RADII ARE TO FLAG OF CURB, UNLESS OTHERWISE NOTED.

LEGEND

ASPH	ASPHALTIC SURFACE DRIVEWAYS AND FIELD ENTRANCES
BUS PAD	CONCRETE PAVEMENT 9-INCH (DOWELED)
CD-6	CONCRETE DRIVEWAY 6-INCH
CS-5	CONCRETE SIDEWALK 5-INCH
CS-6	CONCRETE SIDEWALK 6-INCH
	CURB RAMP, TYPE X
	TRAFFIC FLOW
	PROPOSED INLET
	PROPOSED STORM SEWER MANHOLE
	CURB RAMP DETECTABLE WARNING FIELD
	DRAINAGE FLOW ARROW

2



DATA TABLE					
POINT #	NORTHING	EASTING	STATION	OFFSET	ELEVATION
70	341848.08	580464.37	147+50.18	-13.00	754.96
70A	341795.09	580402.52	146+94.83	-72.75	
71	341928.90	580493.53	148+32.08	13.00	757.47
71A	341827.67	580403.39	147+27.42	-73.14	
72	342109.45	580482.54	150+12.06	-5.00	760.19
72A	342273.99	580528.97	151+78.28	35.00	761.11

NOTES:

ALL POINTS & RADII ARE TO FLAG OF CURB, UNLESS OTHERWISE NOTED.

LEGEND

ASPH	ASPHALTIC SURFACE DRIVEWAYS AND FIELD ENTRANCES
BUS PAD	CONCRETE PAVEMENT 9-INCH (DOWELED)
CD-6	CONCRETE DRIVEWAY 6-INCH
CS-5	CONCRETE SIDEWALK 5-INCH
CS-6	CONCRETE SIDEWALK 6-INCH
	CURB RAMP, TYPE X
	TRAFFIC FLOW
	PROPOSED INLET
	PROPOSED STORM SEWER MANHOLE
	CURB RAMP DETECTABLE WARNING FIELD
	DRAINAGE FLOW ARROW

2

DATA TABLE						
POINT #	NORTHING	EASTING	STATION	OFFSET	ELEVATION	REMARK
73	342321.29	580500.78	152+24.45	5.00	761.68	
74	342321.14	580504.78	152+24.45	9.00		R = 4'
75	342320.98	580508.78	152+24.45	13.00	761.76	
76	342327.81	580483.02	152+30.28	-13.00	761.50	
76A	342317.68	580490.63	152+20.45	-5.00	761.56	
77	342332.83	580450.19	152+34.02	-46.00	761.21	
77A	342347.95	580503.32	152+51.19	6.50		BOC
78	342333.81	580425.21	152+34.02	-71.00		R = 25'
78A	342353.04	580503.52	152+56.28	6.50		BOC
79	342323.66	580415.85	152+23.52	-79.96		R = 75'
80	342358.64	580383.67	152+57.22	-113.48	760.49	
81	342324.90	580557.97	152+30.28	62.00		R = 75'
82	342340.26	580484.55	152+42.77	-11.95	761.63	
83	342339.54	580487.98	152+42.19	-8.50		R = 3.5'
84	342339.40	580491.48	152+42.19	-5.00	761.69	
85	342353.51	580543.06	152+58.28	46.00	761.66	
85A	342353.93	580532.07	152+58.28	35.00	761.77	
86	342363.59	580502.43	152+66.78	5.00	761.98	
86A	342342.50	580501.61	152+45.68	5.00	761.82	
87	342363.44	580506.42	152+66.78	9.00		R = 4'
88	342363.28	580510.42	152+66.78	13.00	762.08	
89	342445.43	580488.83	153+48.08	-11.50		BOC
90	342352.57	580570.05	152+58.40	73.00		R = 27'
91	342450.43	580489.01	1153+53.08	-11.50		BOC
91A	342442.64	580454.22	153+44.09	-46.00	762.56	
92	342381.12	580628.58	152+88.67	130.39	761.31	

DATA TABLE						
POINT #	NORTHING	EASTING	STATION	OFFSET	ELEVATION	REMARK
93	342379.65	580572.53	152+85.24	74.44	761.83	
94	342379.56	580569.34	152+85.05	71.24	761.86	
95	342358.81	580425.11	152+59.00	-72.07	761.17	
96	342389.77	580415.28	152+89.89	-83.07	761.46	
97	342389.58	580383.42	152+88.59	-114.90	761.15	
98	342389.83	580430.74	152+90.49	-67.63	761.62	
99	342389.83	580430.74	152+90.49	-67.63		R = 3.5'
100	342396.75	580431.46	152+97.44	-67.15	761.65	
101	342398.40	580415.22	152+98.52	-83.44	761.52	
102	342398.58	580397.62	152+98.09	-101.03	761.44	
103	342418.32	580397.46	153+17.81	-101.87	760.95	
104	342418.51	580429.43	153+19.11	-69.94	761.39	
105	342425.41	580629.26	153+32.95	129.54	760.91	
106	342426.27	580573.24	153+31.87	73.52	762.00	
107	342434.63	580486.96	153+37.22	-13.00	762.79	
108	342434.49	580490.96	153+37.22	-9.00		R = 4'
109	343434.35	580490.96	153+37.22	-5.00	762.68	
109A	342451.97	580495.57	153+54.85	-5.00	762.91	
110	342443.44	580429.37	153+44.02	-70.86		R = 25'
111	342348.72	580508.35	152+52.15	11.50		BOC
112	342353.81	580508.55	152+57.25	11.50		BOC
112A	342452.74	580465.57	153+54.58	-35.00	762.80	
113	342464.86	580438.98	153+65.77	-62.00		R = 75'
114	342454.58	580506.31	153+57.83	5.65	763.06	
115	342454.98	580509.79	153+58.35	9.11		
116	342454.49	580513.26	153+57.99	12.59	763.13	

DATA TABLE						
POINT #	NORTHING	EASTING	STATION	OFFSET	ELEVATION	REMARK
117	342454.21	580546.67	153+58.86	46.00	762.77	
118	342450.25	580494.00	153+53.08	-6.50		BOC
119	342445.26	580493.83	153+48.08	-6.50		BOC
120	342453.27	580573.66	153+58.86	73.00		R = 27'
122	342461.33	580565.93	153+66.65	65.00		R = 60'
123	342462.26	580513.93	153+65.77	13.00	763.21	
124	342463.41	580505.97	153+66.65	5.00	763.14	
124A	342483.60	580506.67	153+86.85	5.00	763.32	
125	342480.23	580488.54	153+82.85	-13.00	763.44	
126	342480.09	580492.54	153+82.85	-9.00		R = 4'
126A	342532.69	580468.36	154+34.58	-35.00	763.76	
127	342479.95	580496.54	153+82.85	-5.00	763.36	
128	342564.33	580509.48	154+67.63	5.00	764.47	
129	342744.84	580497.75	156+47.62	-13.00	766.30	
130	342892.07	580528.88	157+95.84	13.00	765.52	

NOTES:

ALL POINTS & RADII ARE TO FLAG OF CURB, UNLESS OTHERWISE NOTED.

LEGEND

ASPH	ASPHALTIC SURFACE DRIVEWAYS AND FIELD ENTRANCES
BUS PAD	CONCRETE PAVEMENT 9-INCH (DOWELED)
CD-6	CONCRETE DRIVEWAY 6-INCH
CS-5	CONCRETE SIDEWALK 5-INCH
CS-6	CONCRETE SIDEWALK 6-INCH
	CURB RAMP, TYPE X
	TRAFFIC FLOW
	PROPOSED INLET
	PROPOSED STORM SEWER MANHOLE
	CURB RAMP DETECTABLE WARNING FIELD
	DRAINAGE FLOW ARROW

ADDENDA #1
REV. SHEET 44
12/4/07

DATA TABLE						
POINT #	NORTHING	EASTING	STATION	OFFSET	ELEVATION	REMARK
73	342321.29	580500.78	152+24.45	5.00	761.68	
74	342321.14	580504.78	152+24.45	9.00		R = 4'
75	342320.98	580508.78	152+24.45	13.00	761.76	
76	342327.81	580483.02	152+30.28	-13.00	761.50	
76A	342317.68	580490.63	152+20.45	-5.00	761.56	
77	342332.83	580450.19	152+34.02	-46.00	761.21	
77A	342347.95	580503.32	152+51.19	6.50		BOC
78	342333.81	580425.21	152+34.02	-71.00		R = 25'
78A	342353.04	580503.52	152+56.28	6.50		BOC
79	342323.66	580415.85	152+23.52	-79.96		R = 75'
80	342358.64	580383.67	152+57.22	-113.48	760.49	
81	342324.90	580557.97	152+30.28	62.00		R = 75'
82	342340.26	580484.55	152+42.77	-11.95	761.63	
83	342339.54	580487.98	152+42.19	-8.50		R = 3.5'
84	342339.40	580491.48	152+42.19	-5.00	761.69	
85	342353.51	580543.06	152+58.28	46.00	761.66	
85A	342353.93	580532.07	152+58.28	35.00	761.77	
86	342363.59	580502.43	152+66.78	5.00	761.98	
86A	342342.50	580501.61	152+45.68	5.00	761.82	
87	342363.44	580506.42	152+66.78	9.00		R = 4'
88	342363.28	580510.42	152+66.78	13.00	762.08	
89	342445.43	580488.83	153+48.08	-11.50		BOC
90	342352.57	580570.05	152+58.40	73.00		R = 27'
91	342450.43	580489.01	1153+53.08	-11.50		BOC
91A	342442.64	580454.22	153+44.09	-46.00	762.56	
92	342381.12	580628.58	152+88.67	130.39	761.31	

DATA TABLE						
POINT #	NORTHING	EASTING	STATION	OFFSET	ELEVATION	REMARK
93	342379.65	580572.53	152+85.24	74.44	761.83	
94	342379.56	580569.34	152+85.05	71.24	761.86	
95	342358.81	580425.11	152+59.00	-72.07	761.17	
96	342389.77	580415.28	152+89.89	-83.07	761.46	
97	342389.58	580383.42	152+88.59	-114.90	761.15	
98	342389.83	580430.74	152+90.49	-67.63	761.62	
99	342389.83	580430.74	152+90.49	-67.63		R = 3.5'
100	342396.75	580431.46	152+97.44	-67.15	761.65	
101	342398.40	580415.22	152+98.52	-83.44	761.52	
102	342398.58	580397.62	152+98.09	-101.03	761.44	
103	342418.32	580397.46	153+17.81	-101.87	760.95	
104	342418.51	580429.43	153+19.11	-69.94	761.39	
105	342425.41	580629.26	153+32.95	129.54	760.91	
106	342426.27	580573.24	153+31.87	73.52	762.00	
107	342434.63	580486.96	153+37.22	-13.00	762.79	
108	342434.49	580490.96	153+37.22	-9.00		R = 4'
109	343434.35	580490.96	153+37.22	-5.00	762.68	
109A	342451.97	580495.57	153+54.85	-5.00	762.91	
110	342443.44	580429.37	153+44.02	-70.86		R = 25'
111	342348.72	580508.35	152+52.15	11.50		BOC
112	342353.81	580508.55	152+57.25	11.50		BOC
112A	342452.74	580465.57	153+54.58	-35.00	762.80	
113	342464.86	580438.98	153+65.77	-62.00		R = 75'
114	342454.58	580506.31	153+57.83	5.65	763.06	
115	342454.98	580509.73	153+58.35	9.11		
116	342454.49	580513.26	153+57.99	12.59	763.13	

DATA TABLE						
POINT #	NORTHING	EASTING	STATION	OFFSET	ELEVATION	REMARK
117	342454.21	580546.67	153+58.86	46.00	762.77	
118	342450.25	580494.00	153+53.08	-6.50		BOC
119	342445.26	580493.83	153+48.08	-6.50		BOC
120	342453.27	580573.66	153+58.86	73.00		R = 27'
122	342461.33	580565.93	153+66.65	65.00		R = 60'
123	342462.26	580513.93	153+65.77	13.00	763.21	
124	342463.41	580505.97	153+66.65	5.00	763.14	
124A	342483.60	580506.67	153+86.85	5.00	763.32	
125	342480.23	580488.54	153+82.85	-13.00	763.44	
126	342480.09	580492.54	153+82.85	-9.00		R = 4'
126A	342532.69	580468.36	154+34.58	-35.00	763.76	
127	342479.95	580496.54	153+82.85	-5.00	763.36	
128	342564.33	580509.48	154+67.63	5.00	764.47	
129	342744.84	580497.75	156+47.62	-13.00	766.30	
130	342892.07	580528.88	157+95.84	13.00	765.52	

NOTES:

ALL POINTS & RADII ARE TO FLAG OF CURB, UNLESS OTHERWISE NOTED.

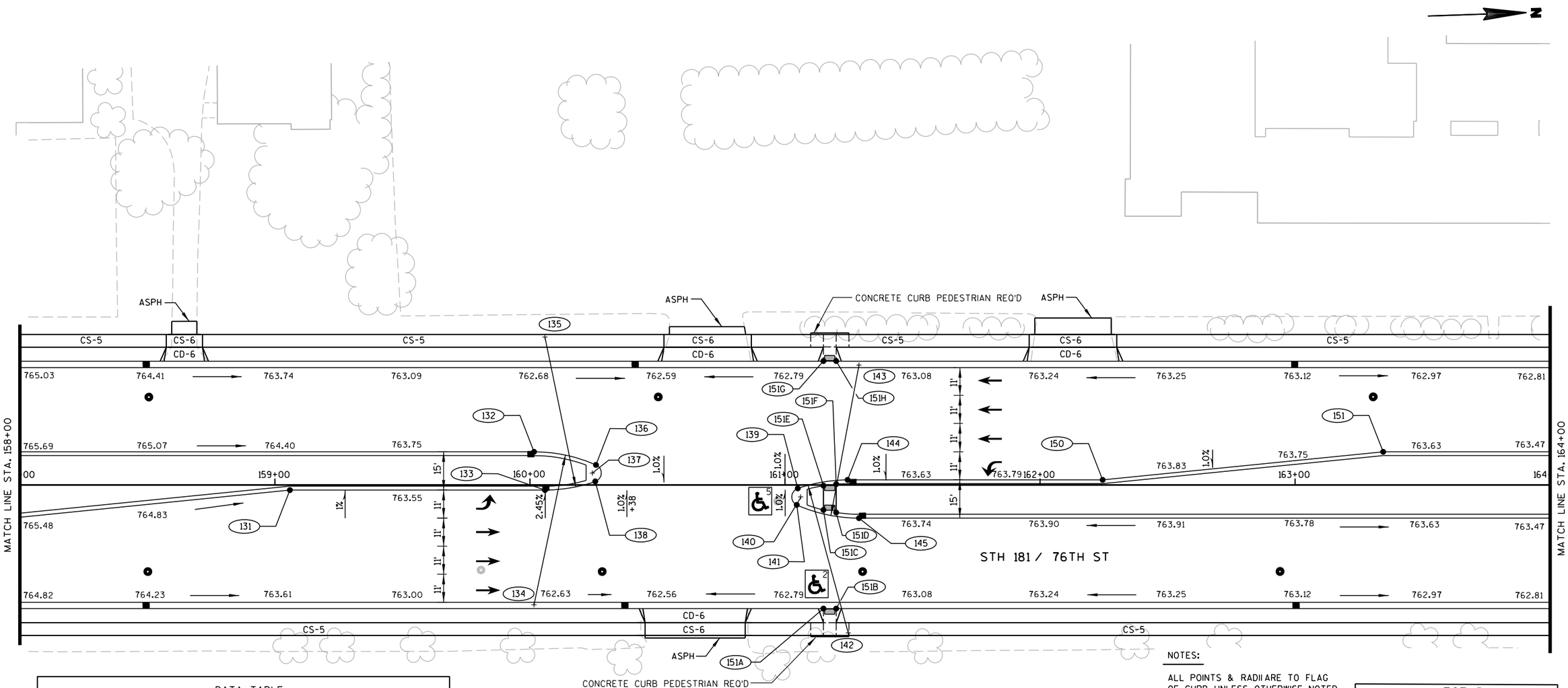
LEGEND

ASPH	ASPHALTIC SURFACE DRIVEWAYS AND FIELD ENTRANCES
BUS PAD	CONCRETE PAVEMENT 9-INCH (DOWELED)
CD-6	CONCRETE DRIVEWAY 6-INCH
CS-5	CONCRETE SIDEWALK 5-INCH
CS-6	CONCRETE SIDEWALK 6-INCH
CS-7	CONCRETE SIDEWALK 7-INCH
	CURB RAMP, TYPE X
	TRAFFIC FLOW
	PROPOSED INLET
	PROPOSED STORM SEWER MANHOLE
	CURB RAMP DETECTABLE WARNING FIELD
	DRAINAGE FLOW ARROW

CALUMET RD.
STH 181 / 76TH ST
CONCRETE CURB PEDESTRIAN REQ'D
BUS PAD
ASPH
MATCH LINE STA. 152+00
MATCH LINE STA. 158+00

PROJECT NO: 2140-08-73 | HWY: STH 181 | COUNTY: MILWAUKEE | PLAN DETAILS | SHEET 44A | E

2



DATA TABLE						
POINT #	NORTHING	EASTING	STATION	OFFSET	ELEVATION	REMARK
131	343002.37	580521.71	159+05.83	2.00	764.09	
132	343098.59	580510.05	160+01.59	-13.00	763.33	
133	343102.31	580525.19	160+05.83	2.00	763.00	
134	343096.51	580570.02	160+01.59	47.00		R = 60'
135	343104.40	580465.23	160+05.83	-58.00		R = 60'
136	343122.70	580516.03	160+25.88	-7.86	763.20	
137	343121.17	580519.18	160+24.46	-4.66		R = 3.5'
138	343122.21	580522.52	160+25.62	-1.36	763.09	
139	343201.44	580527.99	161+05.00	1.36	763.40	
140	343202.56	580531.32	161+06.23	4.64		R = 3.5'
141	343200.84	580534.43	161+04.62	7.81	763.46	
142	343219.25	580585.29	161+24.78	58.00		R = 60'
143	343227.14	580480.50	161+29.03	-47.00		R = 60'
144	343221.09	580525.32	161+24.54	-2.00	763.48	
145	343225.06	580540.47	161+29.03	13.00	763.62	
150	343321.03	580528.79	162+24.54	-2.00	763.82	
151	343431.34	580521.62	163+34.53	-13.00	763.67	
151A	343209.84	580575.46	161+15.04	48.50		BOC
151B	343214.84	580575.63	161+20.04	48.50		BOC
151C	343211.19	580536.78	161+15.04	9.80		BOC

DATA TABLE						
POINT #	NORTHING	EASTING	STATION	OFFSET	ELEVATION	REMARK
151D	343216.15	580537.96	161+20.04	10.80		BOC
151E	343211.52	580527.26	161+15.04	0.28		BOC
151F	343216.54	580526.83	161+20.04	-0.33		BOC
151G	343213.22	580478.42	161+15.04	-48.60		BOC
151H	343218.21	580478.59	161+20.04	-48.60		BOC

NOTES:

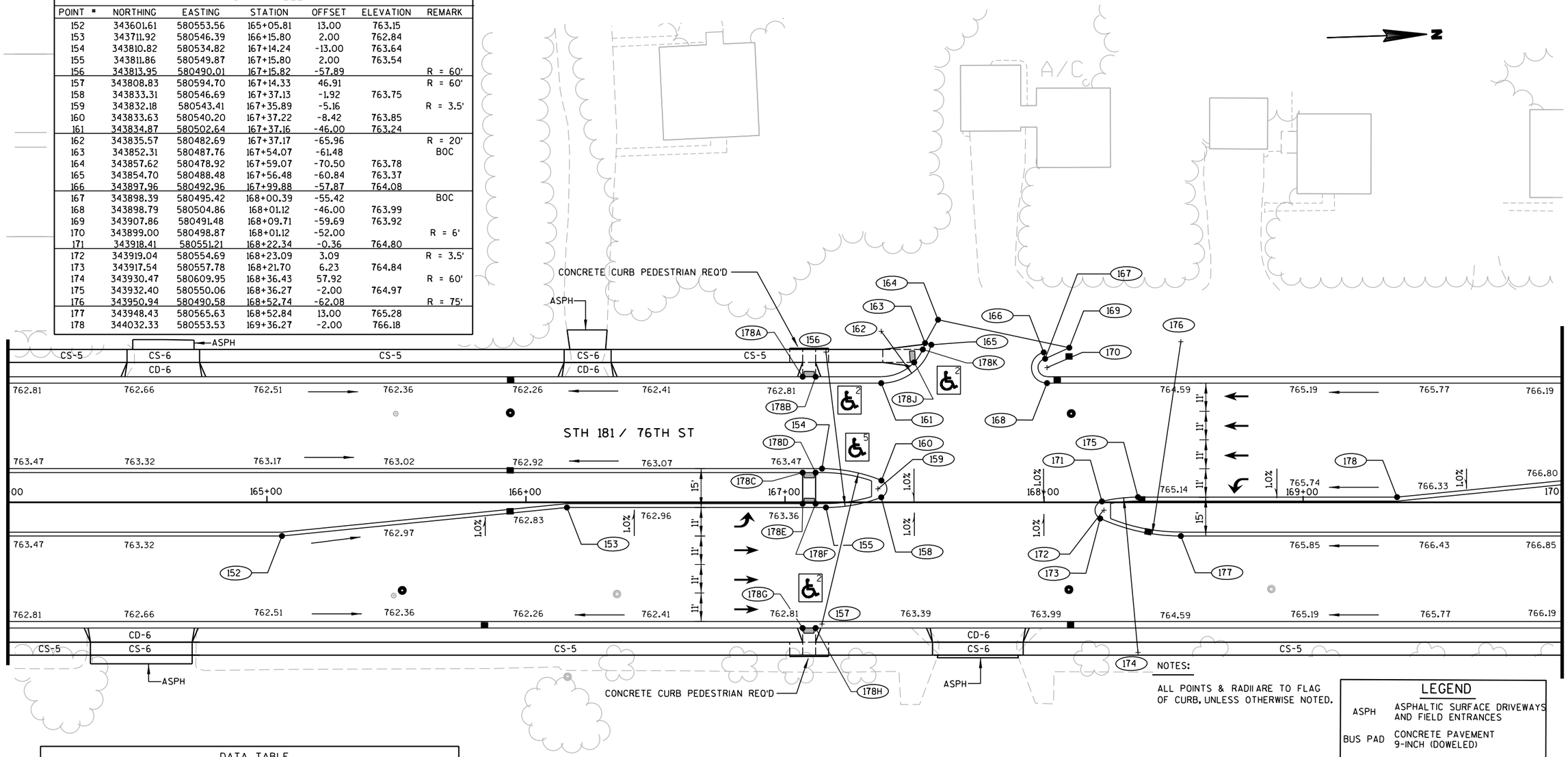
ALL POINTS & RADII ARE TO FLAG OF CURB, UNLESS OTHERWISE NOTED.

LEGEND

ASPH	ASPHALTIC SURFACE DRIVEWAYS AND FIELD ENTRANCES
BUS PAD	CONCRETE PAVEMENT 9-INCH (DOWELED)
CD-6	CONCRETE DRIVEWAY 6-INCH
CS-5	CONCRETE SIDEWALK 5-INCH
CS-6	CONCRETE SIDEWALK 6-INCH
	CURB RAMP, TYPE X
	TRAFFIC FLOW
	PROPOSED INLET
	PROPOSED STORM SEWER MANHOLE
	CURB RAMP DETECTABLE WARNING FIELD
	DRAINAGE FLOW ARROW

PROJECT NO: 2140-08-73	HWY: STH 181	COUNTY: MILWAUKEE	PLAN DETAILS	SHEET 45	E

DATA TABLE						
POINT #	NORTHING	EASTING	STATION	OFFSET	ELEVATION	REMARK
152	343601.61	580553.56	165+05.81	13.00	763.15	
153	343711.92	580546.39	166+15.80	2.00	762.84	
154	343810.82	580534.82	167+14.24	-13.00	763.64	
155	343811.86	580549.87	167+15.80	2.00	763.54	
156	343813.95	580490.01	167+15.82	-57.89		R = 60'
157	343808.83	580594.70	167+14.33	46.91		R = 60'
158	343833.31	580546.69	167+37.13	-1.92	763.75	
159	343832.18	580543.41	167+35.89	-5.16		R = 3.5'
160	343833.63	580540.20	167+37.22	-8.42	763.85	
161	343834.87	580502.64	167+37.16	-46.00	763.24	
162	343835.57	580482.69	167+37.17	-65.96		R = 20'
163	343852.31	580487.76	167+54.07	-61.48		BOC
164	343857.62	580478.92	167+59.07	-70.50	763.78	
165	343854.70	580488.48	167+56.48	-60.84	763.37	
166	343897.96	580492.96	167+99.88	-57.87	764.08	
167	343898.39	580495.42	168+00.39	-55.42		BOC
168	343898.79	580504.86	168+01.12	-46.00	763.99	
169	343907.86	580491.48	168+09.71	-59.69	763.92	
170	343899.00	580498.87	168+01.12	-52.00		R = 6'
171	343918.41	580551.21	168+22.34	-0.36	764.80	
172	343919.04	580554.69	168+23.09	3.09		R = 3.5'
173	343917.54	580557.78	168+21.70	6.23	764.84	
174	343930.47	580609.95	168+36.43	57.92		R = 60'
175	343932.40	580550.06	168+36.27	-2.00	764.97	
176	343950.94	580490.58	168+52.74	-62.08		R = 75'
177	343948.43	580565.63	168+52.84	13.00	765.28	
178	344032.33	580553.53	169+36.27	-2.00	766.18	



NOTES:

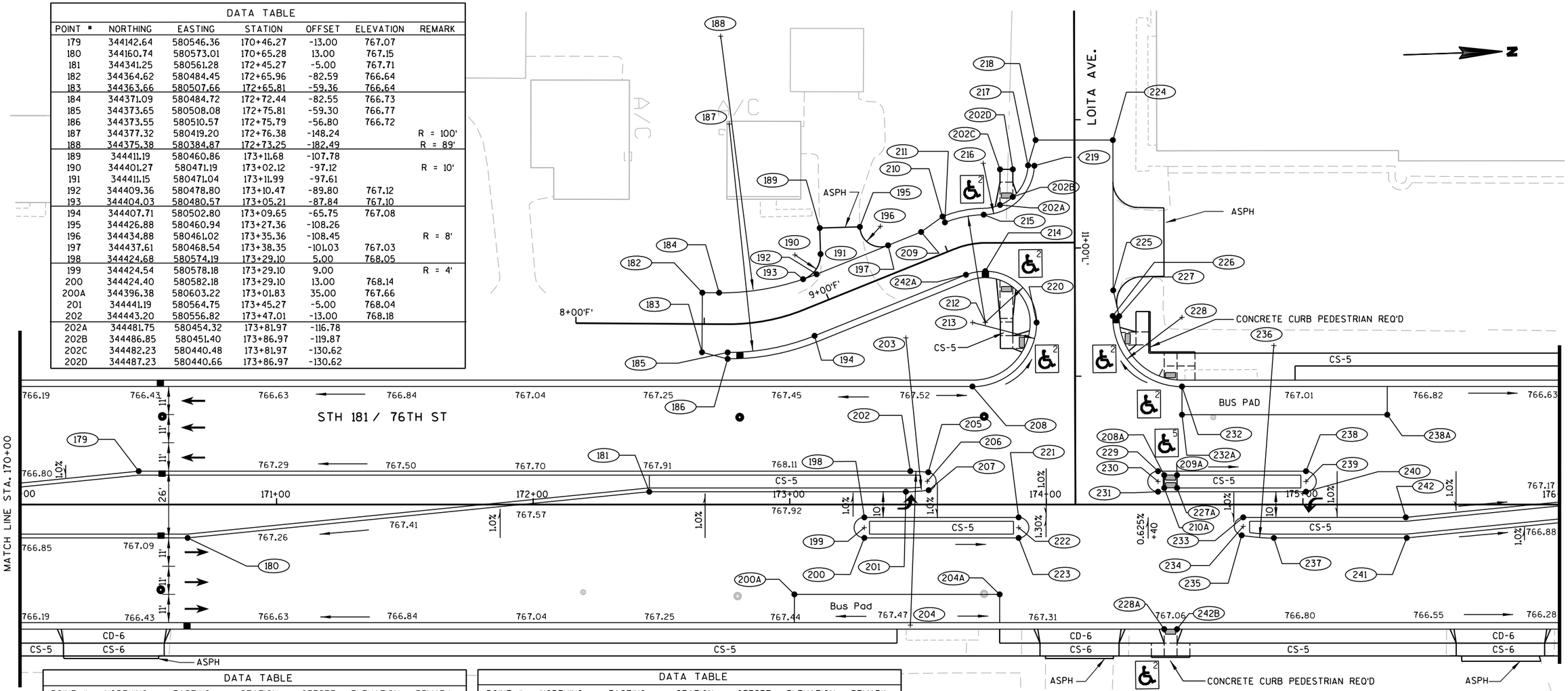
ALL POINTS & RADII ARE TO FLAG OF CURB, UNLESS OTHERWISE NOTED.

DATA TABLE						
POINT #	NORTHING	EASTING	STATION	OFFSET	ELEVATION	REMARK
178A	343804.61	580499.09	167+06.83	-48.50		BOC
178B	343809.64	580499.26	167+11.83	-48.50		BOC
178C	343803.36	580536.06	167+06.83	-11.50		BOC
178D	343808.35	580536.24	167+11.83	-11.50		BOC
178E	343802.94	580548.06	167+06.83	0.50		BOC
178F	343807.94	580548.23	167+11.83	0.50		BOC
178G	343801.27	580596.03	167+06.83	48.50		BOC
178H	343806.27	580596.20	167+11.83	48.50		BOC
178J	343847.88	580495.09	167+49.90	-54.00		BOC
178K	343851.36	580490.21	167+53.20	-59.00		BOC

LEGEND

ASPH	ASPHALTIC SURFACE DRIVEWAYS AND FIELD ENTRANCES
BUS PAD	CONCRETE PAVEMENT 9-INCH (DOWELED)
CD-6	CONCRETE DRIVEWAY 6-INCH
CS-5	CONCRETE SIDEWALK 5-INCH
CS-6	CONCRETE SIDEWALK 6-INCH
	CURB RAMP, TYPE X
	TRAFFIC FLOW
	PROPOSED INLET
	PROPOSED STORM SEWER MANHOLE
	CURB RAMP DETECTABLE WARNING FIELD
	DRAINAGE FLOW ARROW

DATA TABLE						
POINT #	NORTHING	EASTING	STATION	OFFSET	ELEVATION	REMARK
179	344142.64	580546.36	170+46.27	-13.00	767.07	
180	344160.74	580573.01	170+65.28	13.00	767.15	
181	344341.25	580561.28	172+45.27	-5.00	767.71	
182	344364.62	580484.45	172+65.96	-82.59	766.64	
183	344363.66	580507.66	172+65.81	-59.36	766.64	
184	344371.09	580484.72	172+72.44	-82.55	766.73	
185	344373.65	580508.08	172+75.81	-59.30	766.77	
186	344373.55	580510.57	172+75.79	-56.80	766.72	
187	344377.32	580419.20	172+76.38	-148.24		R = 100'
188	344375.38	580384.87	172+73.25	-182.49		R = 89'
189	344411.19	580460.86	173+11.68	-107.78		
190	344401.27	580471.19	173+02.12	-97.12		R = 10'
191	344411.15	580471.04	173+11.99	-97.61		
192	344409.36	580478.80	173+10.47	-89.80	767.12	
193	344404.03	580480.57	173+05.21	-87.84	767.10	
194	344407.71	580502.80	173+09.65	-65.75	767.08	
195	344426.88	580460.94	173+27.36	-108.26		
196	344434.88	580461.02	173+35.36	-108.45		R = 8'
197	344437.61	580468.54	173+38.35	-101.03	767.03	
198	344424.68	580574.19	173+29.10	5.00	768.05	
199	344424.54	580578.18	173+29.10	9.00		R = 4'
200	344424.40	580582.18	173+29.10	13.00	768.14	
200A	344396.38	580603.22	173+01.83	35.00	767.66	
201	344441.19	580564.75	173+45.27	-5.00	768.04	
202	344443.20	580556.82	173+47.01	-13.00	768.18	
202A	344481.75	580454.32	173+81.97	-116.78		
202B	344486.85	580451.40	173+86.97	-119.87		
202C	344482.23	580440.48	173+81.97	-130.62		
202D	344487.23	580440.66	173+86.97	-130.62		



DATA TABLE						
POINT #	NORTHING	EASTING	STATION	OFFSET	ELEVATION	REMARK
203	344443.27	580504.79	173+45.27	-65.00		R = 60'
204	344441.14	580616.78	173+47.03	47.00		R = 60'
204A	344476.33	580606.00	173+81.82	35.00	767.61	
205	344450.18	580557.47	173+54.00	-12.59	768.16	
206	344449.65	580560.93	173+53.60	-9.12		R = 3.5'
207	344450.05	580564.41	173+54.11	-5.66	768.08	
208	344468.51	580524.68	173+71.18	-46.00	767.49	
208A	344542.01	580561.76	174+45.93	-11.50		BOC
209	344450.64	580463.81	173+51.21	-106.22	766.90	
209A	344547.01	580561.93	174+50.93	-11.50		BOC
210	344459.19	580458.04	173+59.55	-112.27	766.72	
210A	344541.84	580566.75	174+45.93	-6.50		BOC
211	344460.04	580460.39	173+60.48	-109.95	766.77	
212	344474.38	580499.87	173+76.18	-71.00		R = 42',20'
213	344469.38	580499.69	173+71.18	-71.00		R = 25
214	344475.07	580479.88	173+76.18	-91.00	766.58	
215	344475.30	580457.88	173+75.64	-113.00	767.02	
216	344475.60	580437.70	173+75.24	-133.17		R = 20'
217	344493.17	580439.32	173+92.86	-132.17	766.01	
218	344496.49	580429.56	173+95.83	-142.04	765.94	
219	344495.66	580439.52	173+95.36	-132.05	766.06	
220	344494.29	580500.61	173+96.11	-70.95	767.76	
221	344484.73	580576.27	173+89.18	5.00	767.94	
222	344484.59	580580.27	173+89.18	9.00		R = 4'
223	344484.45	580584.27	173+89.18	13.00	768.02	

DATA TABLE						
POINT #	NORTHING	EASTING	STATION	OFFSET	ELEVATION	REMARK
224	344526.57	580430.60	174+25.94	-142.04	765.94	
225	344524.69	580489.12	174+26.09	-83.49	766.80	
226	344524.16	580499.11	174+25.91	-73.49	766.74	
227	344526.66	580499.24	174+28.41	-73.45	766.70	
227A	344546.83	580566.93	174+50.93	-6.50		BOC
228	344551.12	580500.54	174+52.91	-73.00		R = 27'
228A	344539.92	580621.72	174+45.93	48.50		BOC
229	344539.72	580560.18	174+43.58	-13.00	767.88	
230	344539.58	580564.17	174+43.58	-9.00		R = 4'
231	344539.44	580568.17	174+43.58	-5.00	767.80	
232	344550.18	580527.52	174+52.91	-46.00	767.19	
232A	344549.80	580538.51	174+52.91	-35.00	767.41	
233	344572.23	580579.32	174+76.74	5.00	767.58	
234	344572.11	580582.82	174+76.74	8.50		R = 3.5'
235	344571.41	580586.24	174+76.16	11.95	767.58	
236	344586.47	580512.77	174+88.66	-62.00		R = 75'
237	344583.87	580587.73	174+88.66	13.00	767.52	
238	344597.34	580562.18	175+01.24	-13.00	767.67	
238A	344629.75	580541.29	175+32.91	-35.00	767.11	
239	344597.20	580566.18	175+01.24	-9.00		R = 4'
240	344597.06	580570.18	175+01.24	-5.00	767.59	
241	344635.63	580589.53	175+40.46	13.00	767.26	
242	344635.52	580581.52	175+40.06	5.00	767.34	
242A	344467.55	580481.07	173+68.71	-89.55	766.88	
242B	344544.92	580621.89	174+50.93	48.50		BOC

NOTES:

ALL POINTS & RADII ARE TO FLAG OF CURB, UNLESS OTHERWISE NOTED.

LEGEND

ASPH	ASPHALTIC SURFACE DRIVEWAYS AND FIELD ENTRANCES
BUS PAD	CONCRETE PAVEMENT 9-INCH (DOWELED)
CD-6	CONCRETE DRIVEWAY 6-INCH
CS-5	CONCRETE SIDEWALK 5-INCH
CS-6	CONCRETE SIDEWALK 6-INCH
	CURB RAMP, TYPE X
	TRAFFIC FLOW
	PROPOSED INLET
	PROPOSED STORM SEWER MANHOLE
	CURB RAMP DETECTABLE WARNING FIELD
	DRAINAGE FLOW ARROW

PROJECT NO: 2140-08-73	HWY: STH 181	COUNTY: MILWAUKEE	PLAN DETAILS	SHEET 47	E

2

DATA TABLE						
POINT #	NORTHING	EASTING	STATION	OFFSET	ELEVATION	REMARK
243	344816.02	580569.79	177+20.05	-13.00	766.13	
244	344816.14	580577.80	177+20.45	-5.00	765.60	
245	344946.76	580592.34	178+51.50	5.00	764.03	
246	344946.63	580596.34	178+51.50	9.00		R = 4'
247	344946.49	580600.34	178+51.50	13.00	764.07	
247A	344893.96	580620.53	177+99.71	35.00	764.34	
248	344961.48	580574.85	178+65.60	-13.00	764.24	
249	344958.85	580649.80	178+65.58	62.00		R = 75'
250	344964.11	580650.03	178+70.84	62.05		R = 75'
251	344966.05	580583.01	178+70.45	-5.00	764.00	
252	344968.65	580508.05	178+70.44	-80.00		R = 75'
253	344976.40	580594.88	178+81.21	6.50		BOC
254	344974.91	580522.28	178+77.19	-66.00		R = 20'
255	344974.21	580542.27	178+77.19	-46.00	763.82	
256	344972.45	580576.04	178+76.61	-12.19	764.13	
257	344971.82	580579.48	178+76.09	-8.72		R = 3.5'
258	344971.97	580582.98	178+76.37	-5.23	764.02	
258A	344943.11	580582.21	178+47.50	-5.00	763.94	
259	344974.81	580634.35	178+80.99	46.00	763.44	
259A	344973.91	580623.31	178+79.71	35.00	763.56	
260	344974.12	580654.33	178+80.99	66.00		R = 20'
261	344981.40	580595.05	178+86.21	6.50		BOC
262	344993.89	580669.90	179+01.29	80.87	762.50	
263	344994.11	580654.63	179+00.99	65.60	762.61	
264	344976.23	580599.87	178+81.21	11.50		R = 20'

DATA TABLE						
POINT #	NORTHING	EASTING	STATION	OFFSET	ELEVATION	REMARK
288	345084.21	580578.17	179+88.64	-13.00	763.67	
289	345097.24	580545.36	180+01.18	-46.00	763.35	
289A	345097.08	580556.36	180+01.18	-35.00	763.46	
290	345027.33	580650.90	179+34.05	60.72		BOC
291	345097.54	580525.36	180+01.18	-66.00		R = 20'
292	345098.44	580596.44	180+03.14	5.06	763.38	
293	345098.53	580599.94	180+03.28	8.56		R = 3.5'
294	345098.30	580603.33	180+03.10	11.95	763.26	
295	345096.89	580637.36	180+02.19	46.00	762.92	
296	345026.06	580655.86	179+32.95	65.72		BOC
297	345096.88	580671.37	180+02.69	80.00		R = 75'
298	345100.26	580671.42	180+06.07	80.00		R = 75'
299	345096.59	580657.36	180+02.19	66.00		R = 20'
300	345036.37	580656.22	179+41.96	65.75		BOC
301	345111.16	580529.56	180+14.87	-62.00		R = 75'
301A	345127.08	580596.81	180+31.78	5.00	763.58	
302	345101.38	580596.43	180+06.07	5.00	763.41	
303	345110.05	580604.56	180+14.86	13.00	764.27	
304	345123.23	580586.75	180+27.78	-5.00	763.66	
305	345123.29	580582.75	180+27.78	-9.00		R = 4'
306	345123.35	580578.75	180+27.78	-13.00	763.75	
306A	345177.07	580557.55	180+81.18	-35.00	763.79	
307	345237.30	580598.45	181+42.01	5.00	764.21	
307A	344973.99	580508.26	178+75.79	-79.98		R = 75'
308	345237.58	580606.46	181+42.41	13.00	764.07	
308A	344994.60	580464.97	178+94.87	-123.96	762.55	

DATA TABLE						
POINT #	NORTHING	EASTING	STATION	OFFSET	ELEVATION	REMARK
265	344987.32	580601.76	178+92.35	13.00	763.67	
266	344987.46	580597.76	178+92.35	9.00		R = 4'
267	344987.59	580593.77	178+92.35	5.00	763.88	
267A	344974.72	580593.32	178+79.47	5.00	763.93	
268	344981.22	580600.05	178+86.21	11.50		BOC
269	344994.91	580522.17	178+97.18	-66.81	763.13	
270	345032.81	580464.76	179+33.06	-125.50	763.04	
271	345032.81	580531.61	179+35.39	-58.69	763.35	
272	345027.33	580643.31	179+33.78	53.13	762.97	
273	345021.89	580670.27	179+29.29	80.27	762.73	
274	345032.95	580645.49	179+39.48	55.11		R = 6'
275	345038.88	580645.17	179+44.31	54.67	762.97	
276	345038.99	580652.40	179+44.53	61.90	762.92	
277	345037.40	580710.51	179+43.81	120.03	762.46	
278	345044.46	580533.46	179+48.23	-57.11	763.27	
279	345038.81	580531.44	179+42.55	-59.04		R = 6'
280	345048.83	580507.82	179+52.21	-82.81	763.32	
281	345077.57	580526.42	179+81.23	-64.65	762.97	
282	345076.58	580507.67	179+79.96	-83.38	762.89	
283	345075.88	580711.02	179+82.28	119.96	761.62	
285	345076.59	580657.10	179+82.19	66.04	762.53	
286	345084.09	580586.17	179+88.64	-5.00	763.53	
286A	345095.23	580586.33	179+99.78	-5.00	763.52	
287	345084.15	580582.17	179+88.64	-9.00		R = 4'

DATA TABLE						
POINT #	NORTHING	EASTING	STATION	OFFSET	ELEVATION	REMARK
308B	345036.52	580651.22	179+42.04	60.75		BOC
308C	345088.66	580584.74	179+93.18	-6.50		BOC
308D	345093.73	580584.81	179+98.18	-6.50		BOC
308E	345088.73	580579.74	179+93.18	-11.50		BOC
308F	345093.73	580579.81	179+98.18	-11.50		BOC
308G	345043.66	580527.73	179+47.34	-62.82		BOC
308H	345044.87	580522.74	179+48.47	-67.82		BOC
308J	345035.29	580527.69	179+37.72	-62.70		BOC
308K	345035.30	580522.69	179+37.56	-67.70		BOC

BRADLEY RD.

STH 181 / 76TH ST

MATCH LINE STA. 176+00

MATCH LINE STA. 182+00

WALL MODULAR BLOCK GRAVITY REQ'D (SEE CONSTRUCTION DETAIL)

CONCRETE CURB PEDESTRIAN REQ'D

BUS PAD

ASPH

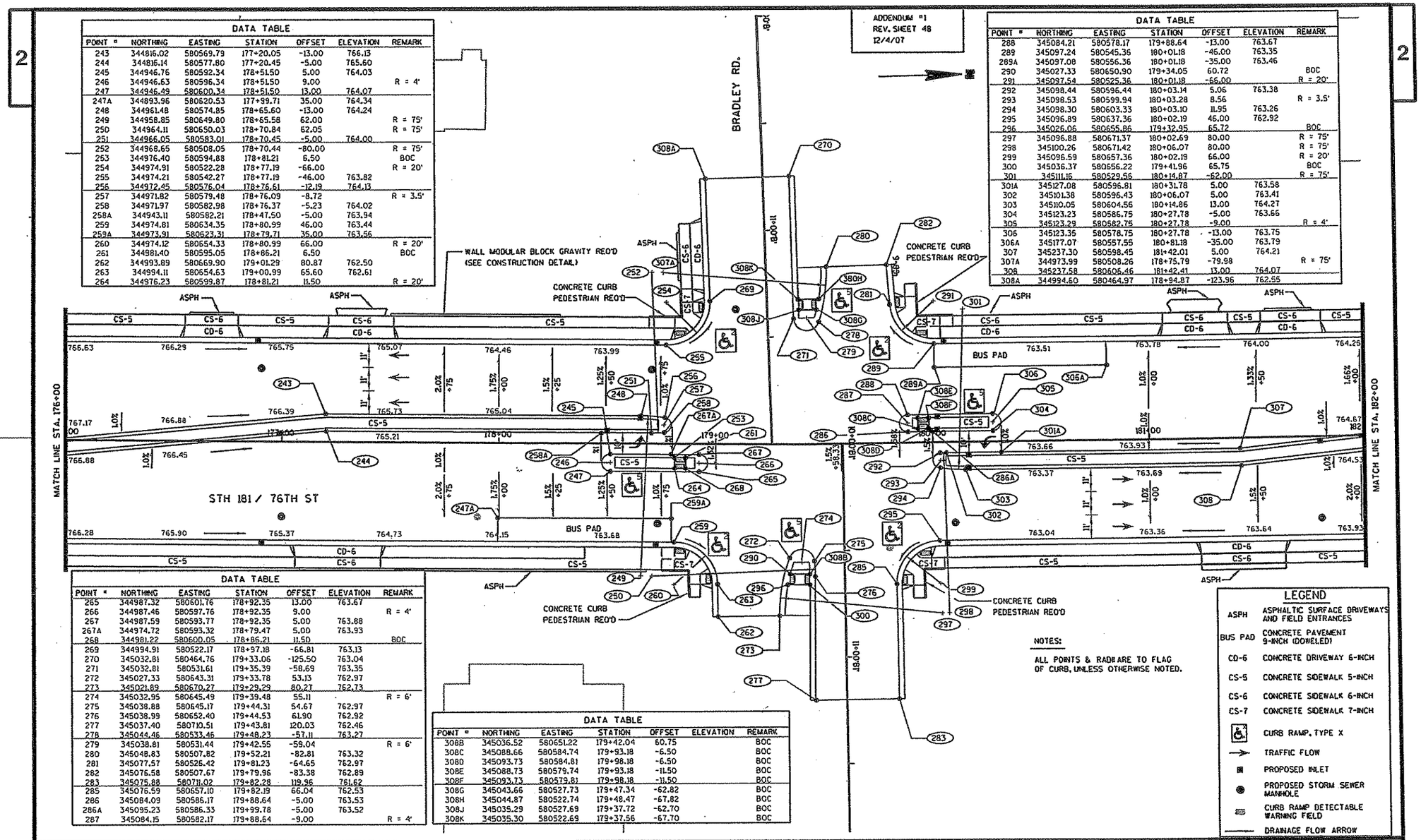
CS-5 CS-6 CD-6

NOTES:

ALL POINTS & RADII ARE TO FLAG OF CURB, UNLESS OTHERWISE NOTED.

LEGEND

ASPH	ASPHALTIC SURFACE DRIVEWAYS AND FIELD ENTRANCES
BUS PAD	CONCRETE PAVEMENT 9-INCH (DOWELED)
CD-6	CONCRETE DRIVEWAY 6-INCH
CS-5	CONCRETE SIDEWALK 5-INCH
CS-6	CONCRETE SIDEWALK 6-INCH
	CURB RAMP, TYPE X
	TRAFFIC FLOW
	PROPOSED INLET
	PROPOSED STORM SEWER MANHOLE
	CURB RAMP DETECTABLE WARNING FIELD
	DRAINAGE FLOW ARROW



ADDENDUM #1
REV. SHEET 48
12/4/07

DATA TABLE

POINT #	NORTHING	EASTING	STATION	OFFSET	ELEVATION	REMARK
243	344816.02	580569.79	177+20.05	-13.00	766.13	
244	344816.14	580577.80	177+20.45	-5.00	765.60	
245	344946.76	580592.34	178+51.50	5.00	764.03	
246	344946.63	580596.34	178+51.50	9.00		R = 4'
247	344946.49	580600.34	178+51.50	13.00	764.07	
247A	344893.96	580620.53	177+99.71	35.00	764.34	
248	344961.48	580574.85	178+65.60	-13.00	764.24	
249	344958.85	580649.80	178+65.58	62.00		R = 75'
250	344964.11	580650.03	178+70.84	62.05		R = 75'
251	344966.05	580583.01	178+70.45	-5.00	764.00	
252	344968.65	580508.05	178+70.44	-80.00		R = 75'
253	344976.40	580594.88	178+81.21	6.50		BOC
254	344974.91	580522.28	178+77.19	-66.00		R = 20'
255	344974.21	580542.27	178+77.19	-46.00	763.82	
256	344972.65	580576.04	178+76.61	-12.19	764.13	
257	344971.82	580579.48	178+76.09	-8.72		R = 3.5'
258	344971.97	580582.98	178+76.37	-5.23	764.02	
258A	344943.11	580582.21	178+47.50	-5.00	763.94	
259	344974.81	580634.35	178+80.99	46.00	763.44	
259A	344973.91	580623.31	178+79.71	35.00	763.56	
260	344974.12	580654.33	178+80.99	66.00		R = 20'
261	344981.40	580595.05	178+86.21	6.50		BOC
262	344993.89	580669.90	179+01.29	80.87	762.50	
263	344994.11	580654.63	179+00.99	65.60	762.61	
264	344976.23	580599.87	178+81.21	11.50		R = 20'

DATA TABLE

POINT #	NORTHING	EASTING	STATION	OFFSET	ELEVATION	REMARK
265	344987.32	580601.76	178+92.35	13.00	763.67	
266	344987.46	580597.76	178+92.35	9.00		R = 4'
267	344987.59	580593.77	178+92.35	5.00	763.88	
267A	344974.72	580593.32	178+79.47	5.00	763.93	
268	344981.22	580600.05	178+86.21	11.50		BOC
269	344994.91	580522.17	178+97.18	-66.81	763.13	
270	345032.81	580464.76	179+33.06	-125.50	763.04	
271	345032.81	580531.61	179+35.39	-58.69	763.35	
272	345027.33	580643.31	179+33.78	53.13	762.97	
273	345021.89	580670.27	179+29.29	80.27	762.73	
274	345032.95	580645.49	179+39.48	55.11		R = 6'
275	345038.88	580645.17	179+44.31	54.67	762.97	
276	345038.99	580652.40	179+44.53	61.90	762.92	
277	345037.40	580710.51	179+43.81	120.03	762.46	
278	345044.46	580533.46	179+48.23	-57.11	763.27	
279	345038.81	580531.44	179+42.55	-59.04		R = 6'
280	345048.83	580507.82	179+52.21	-82.81	763.32	
281	345077.57	580526.42	179+81.23	-64.65	762.97	
282	345076.58	580507.67	179+79.96	-83.38	762.89	
283	345075.88	580711.02	179+82.28	119.96	761.62	
285	345076.59	580657.10	179+82.19	66.04	762.53	
286	345084.09	580586.17	179+88.64	-5.00	763.53	
286A	345095.23	580586.33	179+99.78	-5.00	763.52	
287	345084.15	580582.17	179+88.64	-9.00		R = 4'

DATA TABLE

POINT #	NORTHING	EASTING	STATION	OFFSET	ELEVATION	REMARK
288	345084.21	580578.17	179+88.64	-13.00	763.67	
289	345097.24	580545.36	180+01.18	-46.00	763.35	
289A	345097.08	580556.36	180+01.18	-35.00	763.46	
290	345027.33	580650.90	179+34.05	60.72		BOC
291	345097.54	580525.36	180+01.18	-66.00		R = 20'
292	345098.44	580596.44	180+03.14	5.06	763.38	
293	345098.53	580599.94	180+03.28	8.56		R = 3.5'
294	345098.30	580603.33	180+03.10	11.95	763.26	
295	345096.89	580637.36	180+02.19	46.00	762.92	
296	345026.06	580655.86	179+32.95	65.72		BOC
297	345096.88	580671.37	180+02.69	80.00		R = 75'
298	345100.26	580671.42	180+06.07	80.00		R = 75'
299	345098.59	580657.36	180+02.19	66.00		R = 20'
300	345036.37	580656.22	179+41.96	65.75		BOC
301	345111.16	580529.56	180+14.87	-62.00		R = 75'
301A	345127.08	580596.81	180+31.78	5.00	763.58	
302	345101.38	580596.43	180+06.07	5.00	763.41	
303	345110.05	580604.56	180+14.86	13.00	764.27	
304	345123.23	580586.75	180+27.78	-5.00	763.66	
305	345123.29	580582.75	180+27.78	-9.00		R = 4'
306	345123.35	580578.75	180+27.78	-13.00	763.75	
306A	345177.07	580557.55	180+81.18	-35.00	763.79	
307	345237.30	580598.45	181+42.01	5.00	764.21	
307A	344973.99	580508.26	178+75.79	-79.98		R = 75'
308	345237.58	580606.46	181+42.41	13.00	764.07	
308A	344994.60	580464.97	178+94.87	-123.96	762.55	

DATA TABLE

POINT #	NORTHING	EASTING	STATION	OFFSET	ELEVATION	REMARK
308B	345036.52	580651.22	179+42.04	60.75		BOC
308C	345088.66	580584.74	179+93.18	-6.50		BOC
308D	345093.73	580584.81	179+98.18	-6.50		BOC
308E	345088.73	580579.74	179+93.18	-11.50		BOC
308F	345093.73	580579.81	179+98.18	-11.50		BOC
308G	345043.66	580527.73	179+47.34	-62.82		BOC
308H	345044.87	580522.74	179+48.47	-67.82		BOC
308J	345035.29	580527.69	179+37.72	-62.70		BOC
308K	345035.30	580522.69	179+37.56	-67.70		BOC

PROJECT NO: 2140-08-73	HWY: STH 181	COUNTY: MILWAUKEE	PLAN DETAILS	SHEET 48-A	E

FILE NAME : s:\eSAI\051--100\089\099\Micros\DESIGN\0873\021208_pd.dgn PLOT DATE : 12/4/2007 PLOT BY : ee...plotuser...ee PLOT NAME : PLOT SCALE : ee.....plotscale.....ee WISDOT/CADDS SHEET 42

DATA TABLE						
POINT #	NORTHING	EASTING	STATION	OFFSET	ELEVATION	REMARK
309	345347.72	580597.10	182+52.40	2.00	764.88	
310	345398.33	580597.85	183+03.02	2.00	765.05	
311	345399.22	580537.86	183+03.01	-58.00		R = 60'
312	345416.65	580643.13	183+22.00	47.00		R = 60'
313	345417.54	580583.13	183+22.00	-13.00	765.31	
314	345426.88	580584.01	183+31.36	-12.27	765.29	
315	345426.28	580587.46	183+30.81	-8.81		R = 3.5'
316	345427.96	580590.53	183+32.53	-5.76	765.15	
317	345543.33	580596.01	184+47.97	-2.00	764.60	
318	345534.87	580596.48	184+39.52	-1.40	764.66	
319	345535.31	580599.95	184+40.01	2.06		R = 3.5'
320	345533.53	580602.97	184+38.27	5.10	764.69	
321	345542.43	580656.00	184+47.97	58.00		R = 60'
322	345564.06	580551.31	184+68.03	-47.00		R = 60'
323	345557.85	580611.31	184+62.72	12.76	764.55	
324	345593.32	580596.75	184+97.97	-2.00	764.32	
325	345663.00	580661.35	185+37.72	2.00	764.08	
325A	345606.50	580633.96	185+11.70	35.00	763.83	
326	345668.47	580587.67	185+72.97	-12.80	764.11	
327	345666.83	580601.85	185+71.54	2.00	763.96	
328	345662.69	580646.79	185+68.08	47.00		R = 60'
328A	345686.49	580635.15	185+91.70	35.00	763.66	
329	345668.03	580541.86	185+71.86	-58.00		R = 60'
330	345682.93	580600.00	185+87.62	-0.09	764.05	
331	345681.78	580595.03	185+86.39	-5.04		R = 5'

DATA TABLE						
POINT #	NORTHING	EASTING	STATION	OFFSET	ELEVATION	REMARK
332	345683.35	580590.46	185+87.90	-9.63	764.08	
333	345683.91	580554.10	185+87.91	-46.00	763.47	
334	345684.28	580529.10	185+87.91	-71.00		R = 25'
334A	345701.86	580546.87	186+05.76	-53.50	763.55	
335	345709.28	580528.99	186+12.91	-71.49	763.42	
336	345709.17	580485.83	186+12.16	-114.64	763.19	
337	345746.56	580485.63	186+49.54	-115.39	762.77	
338	345750.58	580528.77	186+54.20	-72.32	763.71	
339	345750.96	580532.84	186+54.64	-68.26	763.79	
340	345759.70	580588.23	186+64.20	-13.00	764.66	
341	345759.64	580592.23	186+64.20	-9.00		R = 4'
342	345759.58	580596.23	186+64.20	-5.00	764.60	
343	345775.85	580530.47	186+79.49	-71.00		R = 25'
343A	345764.66	580589.81	186+69.19	-11.50		BOC
344	345775.48	580555.46	186+79.48	-46.00	764.20	
344A	345775.32	580566.46	186+79.49	-35.00	764.42	
345	345790.10	580606.69	186+94.88	5.00	764.90	
345A	345818.73	580607.11	187+23.50	5.00	765.40	
346	345790.05	580610.19	186+94.88	8.50		R = 3.5'
347	345789.42	580613.63	186+94.29	11.95	765.05	
348	345801.91	580614.86	187+06.80	13.00	765.25	
349	345803.00	580539.87	187+06.78	-62.00		R = 75'
350	345814.87	580589.05	187+19.38	-13.00	765.50	
350A	345855.31	580567.65	187+59.49	-35.00	765.92	
351	345814.81	580593.05	187+19.38	-9.00		R = 4'

DATA TABLE						
POINT #	NORTHING	EASTING	STATION	OFFSET	ELEVATION	REMARK
351A	345892.59	580608.23	187+97.38	5.00	767.17	
352	345814.75	580597.05	187+19.38	-5.00	765.42	
352A	345786.76	580596.64	186+91.38	-5.00	765.00	
352B	345769.66	580589.88	186+74.19	-11.50		BOC
352C	345764.59	580594.80	186+69.19	-6.50		BOC
352D	345769.59	580594.88	186+74.19	-6.50		BOC
352E	345687.61	580648.67	185+93.22	48.50		BOC
352F	345692.80	580648.74	185+98.22	48.50		BOC
352G	345763.77	580649.80	186+69.19	48.50		BOC
352H	345768.77	580649.87	186+74.19	48.50		BOC

NOTES:

ALL POINTS & RADII ARE TO FLAG OF CURB, UNLESS OTHERWISE NOTED.

LEGEND

ASPH	ASPHALTIC SURFACE DRIVEWAYS AND FIELD ENTRANCES
BUS PAD	CONCRETE PAVEMENT 9-INCH (DOWELED)
CD-6	CONCRETE DRIVEWAY 6-INCH
CS-5	CONCRETE SIDEWALK 5-INCH
CS-6	CONCRETE SIDEWALK 6-INCH
	CURB RAMP, TYPE X
	TRAFFIC FLOW
	PROPOSED INLET
	PROPOSED STORM SEWER MANHOLE
	CURB RAMP DETECTABLE WARNING FIELD
	DRAINAGE FLOW ARROW

ADDENDUM #1
REV. SHEET 49
12/4/07

DATA TABLE						
POINT #	NORTHING	EASTING	STATION	OFFSET	ELEVATION	REMARK
309	345347.72	580597.10	182+52.40	2.00	764.88	
310	345398.33	580597.85	183+03.02	2.00	765.05	
311	345399.22	580537.86	183+03.01	-58.00		R = 60'
312	345416.65	580643.13	183+22.00	47.00		R = 60'
313	345417.54	580583.13	183+22.00	-13.00	765.31	
314	345426.88	580584.01	183+31.36	-12.27	765.29	
315	345426.28	580587.46	183+30.81	-8.81		R = 3.5'
316	345427.96	580590.53	183+32.53	-5.76	765.15	
317	345543.33	580596.01	184+47.97	-2.00	764.60	
318	345534.87	580596.48	184+39.52	-1.40	764.66	
319	345535.31	580599.95	184+40.01	2.06		R = 3.5'
320	345533.53	580602.97	184+38.27	5.10	764.69	
321	345542.43	580656.00	184+47.97	58.00		R = 60'
322	345564.06	580551.31	184+68.03	-47.00		R = 60'
323	345557.85	580631.31	184+62.72	12.76	764.55	
324	345593.32	580596.75	184+97.97	-2.00	764.32	
325	345663.00	580661.35	185+37.72	2.00	764.08	
325A	345606.50	580633.96	185+11.70	35.00	763.83	
326	345668.47	580587.67	185+72.97	-12.80	764.11	
327	345666.83	580601.85	185+71.54	2.00	763.96	
328	345662.69	580646.79	185+68.08	47.00		R = 60'
328A	345686.49	580635.15	185+91.70	35.00	763.66	
329	345668.03	580541.86	185+71.86	-58.00		R = 60'
330	345682.93	580600.00	185+87.62	-0.09	764.05	
331	345681.78	580595.03	185+86.39	-5.04		R = 5'

DATA TABLE						
POINT #	NORTHING	EASTING	STATION	OFFSET	ELEVATION	REMARK
332	345683.35	580590.46	185+87.90	-9.63	764.08	
333	345683.91	580554.10	185+87.91	-46.00	763.47	
334	345684.28	580529.10	185+87.91	-71.00		R = 25'
334A	345701.86	580546.87	186+05.76	-53.50	763.55	
335	345709.28	580528.99	186+12.91	-71.49	763.42	
336	345709.17	580485.83	186+12.16	-114.64	763.19	
337	345746.56	580485.63	186+49.54	-115.39	762.77	
338	345750.58	580528.77	186+54.20	-72.32	763.71	
339	345750.96	580532.84	186+54.64	-68.26	763.79	
340	345759.70	580588.23	186+64.20	-13.00	764.66	
341	345759.64	580592.23	186+64.20	-9.00		R = 4'
342	345759.58	580596.23	186+64.20	-5.00	764.60	
343	345775.85	580530.47	186+79.49	-71.00		R = 25'
343A	345764.66	580589.81	186+69.19	-11.50		BOC
344	345775.48	580555.46	186+79.49	-46.00	764.20	
344A	345775.32	580566.46	186+79.49	-35.00	764.42	
345	345790.10	580606.59	186+94.88	5.00	764.90	
345A	345818.73	580607.11	187+23.50	5.00	765.40	
346	345790.05	580610.19	186+94.88	8.50		R = 3.5'
347	345789.42	580613.63	186+94.29	11.95	765.05	
348	345801.91	580614.86	187+06.80	13.00	765.25	
349	345803.00	580539.87	187+06.78	-62.00		R = 75'
350	345814.87	580589.05	187+19.38	-13.00	765.50	
350A	345855.31	580567.65	187+59.49	-35.00	765.92	
351	345814.81	580593.05	187+19.38	-9.00		R = 4'

DATA TABLE						
POINT #	NORTHING	EASTING	STATION	OFFSET	ELEVATION	REMARK
351A	345892.59	580608.21	187+97.38	5.00	767.17	
352	345814.75	580597.05	187+19.38	-5.00	765.42	
352A	345786.76	580596.64	186+91.38	-5.00	765.00	
352B	345769.66	580589.88	186+74.19	-11.50		BOC
352C	345764.59	580594.80	186+69.19	-6.50		BOC
352D	345769.59	580594.88	186+74.19	-6.50		BOC
352E	345687.81	580648.67	185+93.22	48.50		BOC
352F	345692.80	580648.74	185+98.22	48.50		BOC
352G	345763.77	580649.80	186+69.19	48.50		BOC
352H	345768.77	580649.87	186+74.19	48.50		BOC

NOTES:

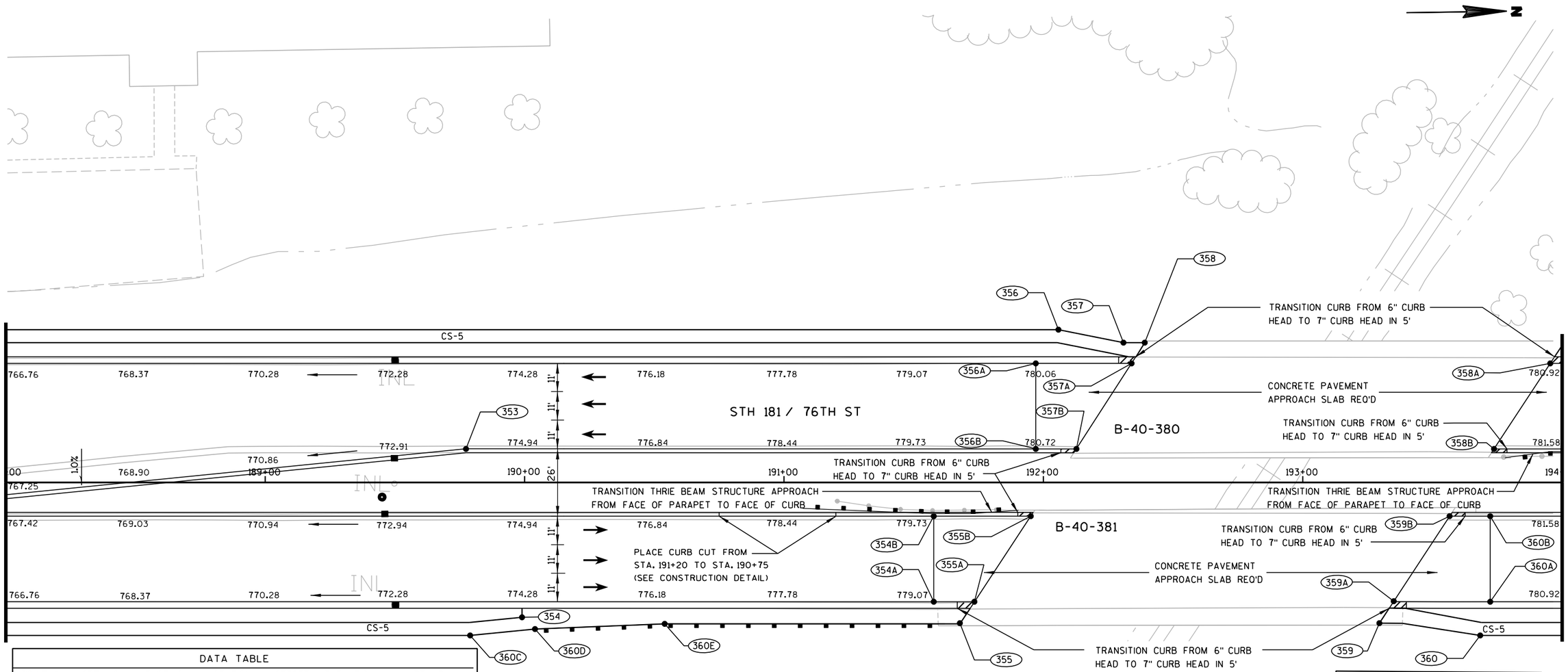
ALL POINTS & RADII ARE TO FLAG OF CURB, UNLESS OTHERWISE NOTED.

LEGEND

ASPH	ASPHALTIC SURFACE DRIVEWAYS AND FIELD ENTRANCES
BUS PAD	CONCRETE PAVEMENT 9-INCH (DOWELED)
CD-6	CONCRETE DRIVEWAY 6-INCH
CS-5	CONCRETE SIDEWALK 5-INCH
CS-6	CONCRETE SIDEWALK 6-INCH
CS-7	CONCRETE SIDEWALK 7-INCH
	CURB RAMP, TYPE X
	TRAFFIC FLOW
	PROPOSED INLET
	PROPOSED STORM SEWER MANHOLE
	CURB RAMP DETECTABLE WARNING FIELD
	DRAINAGE FLOW ARROW

PROJECT NO: 2140-08-73 | HWY: STH 181 | COUNTY: MILWAUKEE | PLAN DETAILS | SHEET 49-A | E

FILE NAME : s:\oSAI\051--100\089\099\Micros\DESIGN\0873\021209_pd.dgn PLOT DATE : 12/4/2007 PLOT BY : ee...plotuser...ee PLOT NAME : PLOT SCALE : ee.....plotscale.....ee WISDOT/CADDS SHEET 42



DATA TABLE						
POINT #	NORTHING	EASTING	STATION	OFFSET	ELEVATION	REMARK
353	346072.83	580592.90	189+77.37	-13.00	774.03	
354	346093.49	580658.19	189+99.00	51.98		
354A	346252.32	580654.58	191+57.75	46.00	779.25	
354B	346252.81	580621.58	191+57.75	13.00	779.91	
355	346262.27	580663.23	191+67.83	54.50		
355A	346267.98	580654.81	191+73.42	46.00		MATCH B-40-381
355B	346290.17	580622.14	191+95.12	13.00		MATCH B-40-381
356	346301.95	580550.31	192+05.83	-59.00		
356A	346292.99	580563.17	191+97.06	-46.00	780.01	
356B	346292.50	580596.17	191+97.06	-13.00	780.67	
357	346326.95	580555.68	192+30.90	-54.00		
357A	346329.95	580563.72	192+34.02	-46.00		MATCH B-40-380
357B	346308.17	580596.40	192+12.73	-13.00		MATCH B-40-380
358	346335.16	580555.80	192+39.11	-54.00		
358A	346491.36	580566.13	193+95.45	-46.00		MATCH B-40-380
358B	346469.18	580598.80	193+73.76	-13.00		MATCH B-40-380
359	346423.97	580665.40	193+29.55	54.27		
359A	346429.52	580657.22	193+34.97	46.00		MATCH B-40-381
359B	346451.67	580624.55	193+56.64	13.00		MATCH B-40-381
360	346462.75	580670.72	193+68.41	59.00		
360A	346466.85	580657.77	193+72.31	46.00	781.09	
360B	346467.34	580624.78	193+72.31	13.00	781.75	
360C	346073.39	580664.91	189+79.00	59.00		
360D	346098.42	580662.79	190+04.00	56.50		
360E	346148.45	580661.53	190+54.00	54.50		

NOTES:

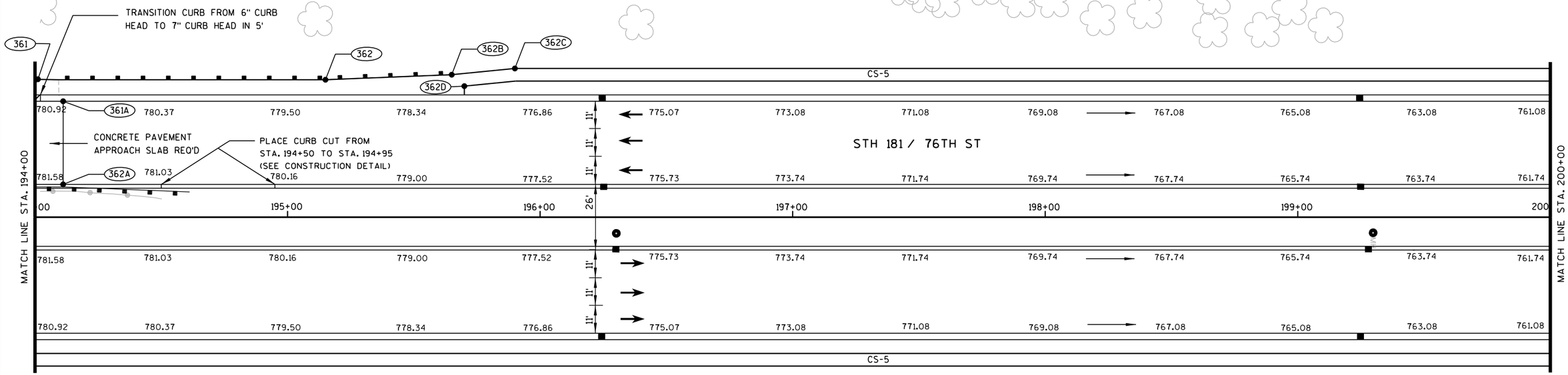
ALL POINTS & RADII ARE TO FLAG OF CURB, UNLESS OTHERWISE NOTED.

LEGEND

ASPH	ASPHALTIC SURFACE DRIVEWAYS AND FIELD ENTRANCES
BUS PAD	CONCRETE PAVEMENT 9-INCH (DOWELED)
CD-6	CONCRETE DRIVEWAY 6-INCH
CS-5	CONCRETE SIDEWALK 5-INCH
CS-6	CONCRETE SIDEWALK 6-INCH
	CURB RAMP, TYPE X
	TRAFFIC FLOW
	PROPOSED INLET
	PROPOSED STORM SEWER MANHOLE
	CURB RAMP DETECTABLE WARNING FIELD
	DRAINAGE FLOW ARROW

2

N



DATA TABLE						
POINT #	NORTHING	EASTING	STATION	OFFSET	ELEVATION	REMARK
361	346497.17	580557.58	194+01.13	-54.64		
361A	346507.03	580566.36	194+11.12	-46.00	780.82	
362	346611.02	580559.41	195+15.00	-54.50		
362A	346506.54	580599.36	194+11.12	-13.00	781.48	
362B	346661.05	580558.16	195+65.00	-56.50		
362C	346686.08	580556.03	195+90.00	-59.00		
362D	346665.98	580562.75	195+70.00	-51.98		

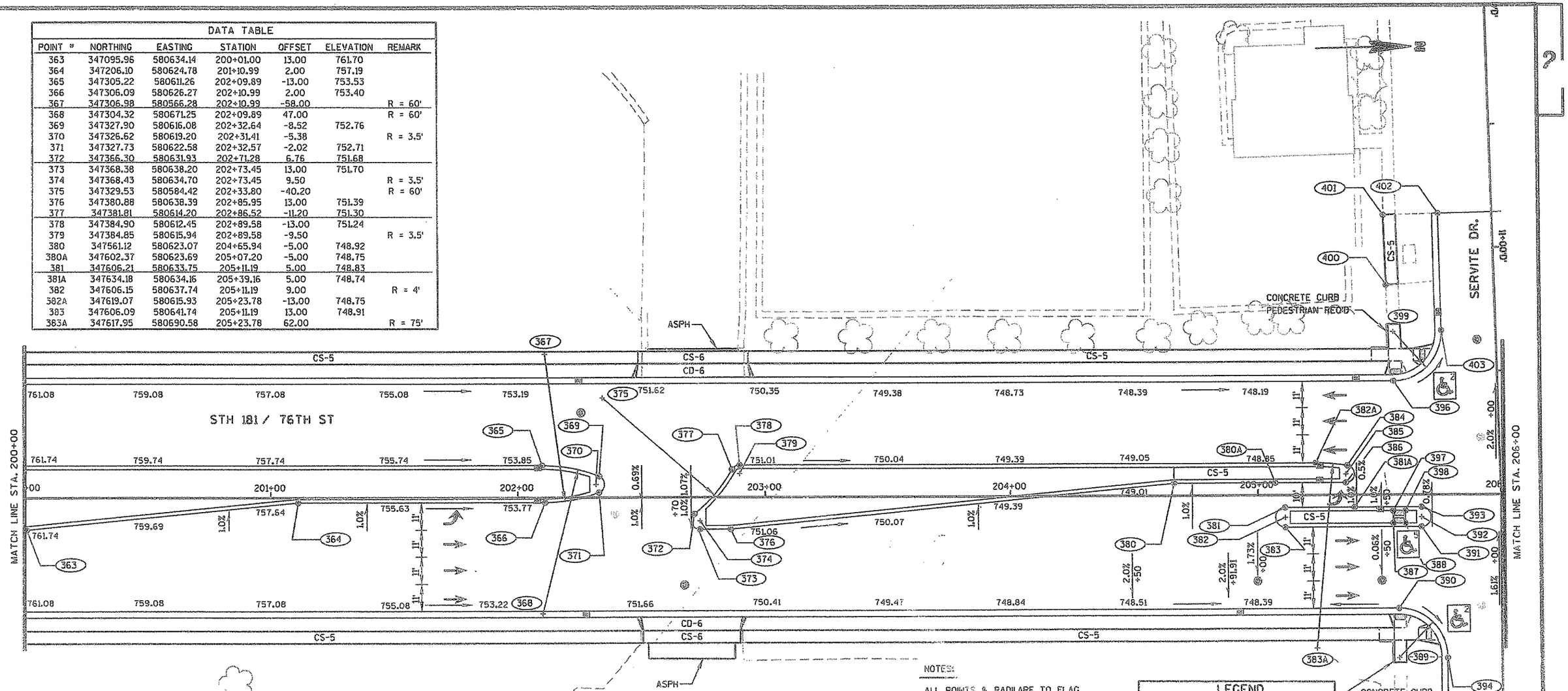
NOTES:

ALL POINTS & RADII ARE TO FLAG OF CURB, UNLESS OTHERWISE NOTED.

LEGEND

ASPH	ASPHALTIC SURFACE DRIVEWAYS AND FIELD ENTRANCES
BUS PAD	CONCRETE PAVEMENT 9-INCH (DOWELED)
CD-6	CONCRETE DRIVEWAY 6-INCH
CS-5	CONCRETE SIDEWALK 5-INCH
CS-6	CONCRETE SIDEWALK 6-INCH
	CURB RAMP, TYPE X
	TRAFFIC FLOW
	PROPOSED INLET
	PROPOSED STORM SEWER MANHOLE
	CURB RAMP DETECTABLE WARNING FIELD
	DRAINAGE FLOW ARROW

DATA TABLE						
POINT #	NORTHING	EASTING	STATION	OFFSET	ELEVATION	REMARK
363	347095.96	580634.14	200+01.00	13.00	761.70	
364	347206.10	580624.78	201+10.99	2.00	757.19	
365	347305.22	580611.26	202+09.89	-13.00	753.53	
366	347306.09	580626.27	202+10.99	2.00	753.40	
367	347306.98	580566.28	202+10.99	-58.00		R = 60'
368	347304.32	580671.25	202+09.89	47.00		R = 60'
369	347327.90	580616.08	202+32.64	-8.52	752.76	
370	347326.62	580619.20	202+31.41	-5.38		R = 3.5'
371	347327.73	580622.58	202+32.57	-2.02	752.71	
372	347366.30	580631.93	202+71.28	6.76	751.68	
373	347368.38	580638.20	202+73.45	13.00	751.70	
374	347368.43	580634.70	202+73.45	9.50		R = 3.5'
375	347329.53	580584.42	202+33.80	-40.20		R = 60'
376	347380.88	580638.39	202+85.95	13.00	751.39	
377	347381.81	580614.20	202+86.52	-11.20	751.30	
378	347384.90	580612.45	202+89.58	-13.00	751.24	
379	347384.85	580615.94	202+89.58	-9.50		R = 3.5'
380	347561.12	580623.07	204+65.94	-5.00	748.92	
380A	347602.37	580623.69	205+07.20	-5.00	748.75	
381	347606.21	580633.75	205+11.19	5.00	748.83	
381A	347634.18	580634.16	205+39.16	5.00	748.74	
382	347606.15	580637.74	205+11.19	9.00		R = 4'
382A	347619.07	580615.93	205+23.78	-13.00	748.75	
383	347606.09	580641.74	205+11.19	13.00	748.91	
383A	347617.95	580690.58	205+23.78	62.00		R = 75'



DATA TABLE						
POINT #	NORTHING	EASTING	STATION	OFFSET	ELEVATION	REMARK
384	347631.55	580617.17	205+36.28	-11.95	748.69	
385	347630.92	580620.61	205+35.69	-8.50		R =3.5'
386	347630.87	580624.11	205+35.69	-5.00	748.65	
387	347649.66	580640.89	205+54.74	11.50		BOC
388	347654.66	580640.97	205+59.74	11.50		BOC
389	347650.93	580695.42	205+56.82	66.00		R = 20'
390	347651.23	580675.42	205+56.82	46.00	748.78	
391	347661.33	580642.57	205+66.43	13.00	748.67	
392	347661.39	580638.57	205+66.43	9.00		R = 4'
393	347661.45	580634.57	205+66.43	5.00	748.59	
394	347670.93	580695.75	205+76.82	66.03	748.66	
395	347670.17	580749.76	205+76.87	120.05	748.19	
396	347650.94	580583.41	205+55.16	-46.00	747.96	
397	347649.74	580635.89	205+54.74	6.50		BOC
398	347654.74	580635.97	205+59.74	6.50		BOC
399	347651.24	580563.41	205+55.16	-66.00		R = 20'
400	347648.88	580544.43	205+52.52	-84.94		
401	347648.31	580516.04	205+51.52	-113.32		
402	347670.90	580515.78	205+74.11	-113.92	747.86	
403	347671.24	580563.22	205+75.15	-66.49	747.70	

NOTES:

ALL POINTS & RADII ARE TO FLAG OF CURB, UNLESS OTHERWISE NOTED.

LEGEND

ASPH	ASPHALTIC SURFACE DRIVEWAYS AND FIELD ENTRANCES
BUS PAD	CONCRETE PAVEMENT 9-INCH (DOWELED)
CD-6	CONCRETE DRIVEWAY 6-INCH
CS-5	CONCRETE SIDEWALK 5-INCH
CS-6	CONCRETE SIDEWALK 6-INCH
	CURB RAMP, TYPE X
	TRAFFIC FLOW
	PROPOSED INLET
	PROPOSED STORM SEWER MANHOLE
	CURB RAMP DETECTABLE WARNING FIELD
	DRAINAGE FLOW ARROW

PROJECT NO: 2140-08-73	HWY: STH 181	COUNTY: MILWAUKEE	PLAN DETAILS	SHEET 52

FILE NAME : s:\@soi\051--100\089\099\micros\design\0873\021212_pd.dgn PLOT DATE : 7/30/2007 PLOT BY : $$...plotuser...$$ PLOT NAME : PLOT SCALE : $$.....plotscale.....$$ WISDOT/CADDS SHEET: 42

ADDENDUM #1
REV. SHEET 52
12/4/07

DATA TABLE						
POINT #	NORTHING	EASTING	STATION	OFFSET	ELEVATION	REMARK
363	347095.96	580634.14	200+01.00	13.00	761.70	
364	347206.10	580624.78	201+10.99	2.00	757.19	
365	347305.22	580611.26	202+09.89	-13.00	753.53	
366	347306.09	580626.27	202+10.99	2.00	753.40	
367	347306.98	580566.28	202+10.99	-58.00		R = 60'
368	347304.32	580671.25	202+09.89	47.00		R = 60'
369	347327.90	580615.08	202+32.64	-8.52	752.76	
370	347326.62	580619.20	202+31.41	-5.38		R = 3.5'
371	347327.73	580622.58	202+32.57	-2.02	752.71	
372	347366.30	580631.93	202+71.28	6.76	751.68	
373	347368.38	580638.20	202+73.45	13.00	751.70	
374	347368.43	580634.70	202+73.45	9.50		R = 3.5'
375	347329.53	580584.42	202+33.80	-40.20		R = 60'
376	347380.88	580638.39	202+85.85	13.00	751.39	
377	347381.81	580614.20	202+86.52	-11.20	751.30	
378	347384.90	580612.45	202+89.58	-13.00	751.24	
379	347384.85	580615.94	202+89.58	-9.50		R = 3.5'
380	347561.12	580623.07	204+65.94	-5.00	748.92	
380A	347602.37	580623.69	205+07.20	-5.00	748.75	
381	347606.21	580633.75	205+11.19	5.00	748.83	
381A	347634.18	580634.16	205+39.16	5.00	748.74	
382	347606.16	580637.74	205+11.19	9.00		R = 4'
382A	347619.07	580615.93	205+23.78	-13.00	748.75	
383	347606.09	580641.74	205+11.19	13.00	748.91	
383A	347617.95	580690.58	205+23.78	62.00		R = 75'

DATA TABLE						
POINT #	NORTHING	EASTING	STATION	OFFSET	ELEVATION	REMARK
384	347631.55	580617.17	205+36.28	-11.95	748.69	
385	347630.92	580620.61	205+35.69	-8.50		R =3.5'
386	347630.87	580624.11	205+35.69	-5.00	748.65	
387	347649.66	580640.89	205+54.74	11.50		BOC
388	347654.66	580640.97	205+59.74	11.50		BOC
389	347650.93	580695.42	205+56.82	66.00		R = 20'
390	347651.23	580675.42	205+56.82	46.00	748.78	
391	347661.33	580642.57	205+66.43	13.00	748.67	
392	347661.39	580638.57	205+66.43	9.00		R = 4'
393	347661.45	580634.57	205+66.43	5.00	748.59	
394	347670.93	580695.75	205+76.82	66.03	748.66	
395	347670.17	580749.76	205+76.87	120.05	748.19	
396	347650.94	580583.41	205+55.16	-46.00	747.96	
397	347649.74	580635.89	205+54.74	6.50		BOC
398	347654.74	580635.97	205+59.74	6.50		BOC
399	347651.24	580563.41	205+55.16	-66.00		R = 20'
400	347648.88	580544.43	205+52.52	-84.94		
401	347648.31	580516.04	205+51.52	-113.32		
402	347670.90	580515.78	205+74.11	-113.92	747.86	
403	347671.24	580563.22	205+75.15	-66.49	747.70	

STH 181 / 76TH ST

ASPH

CONCRETE CURB
PEDESTRIAN RECD

SERVITE DR.

DEAN RD.

MATCH LINE STA. 200+00

MATCH LINE STA. 206+00

CS-5 CS-6 CD-6 CS-7

LEGEND	
ASPH	ASPHALTIC SURFACE DRIVEWAYS AND FIELD ENTRANCES
BUS PAD	CONCRETE PAVEMENT 9-INCH (DOWELED)
CD-6	CONCRETE DRIVEWAY 6-INCH
CS-5	CONCRETE SIDEWALK 5-INCH
CS-6	CONCRETE SIDEWALK 6-INCH
CS-7	CONCRETE SIDEWALK 7-INCH
	CURB RAMP, TYPE X
	TRAFFIC FLOW
	PROPOSED INLET
	PROPOSED STORM SEWER MANHOLE
	CURB RAMP DETECTABLE WARNING FIELD
	DRAINAGE FLOW ARROW

NOTES:

ALL POINTS & RADIARE TO FLAG OF CURB, UNLESS OTHERWISE NOTED.

PROJECT NO: 2140-08-73	HWY: STH 181	COUNTY: MILWAUKEE	PLAN DETAILS	SHEET 52A	E

DATA TABLE						
POINT #	NORTHING	EASTING	STATION	OFFSET	ELEVATION	REMARK
404	347714.88	580699.18	206+20.65	68.82	748.71	
405	347734.87	580699.51	206+39.94	69.00		R = 20'
406	347714.17	580750.19	206+20.59	119.83	748.19	
407	347725.87	580625.47	206+30.75	-5.00	748.27	
408	347725.90	580621.47	206+30.75	-9.00		R = 4'
409	347725.93	580617.47	206+30.75	-13.00	748.31	
410	347715.21	580561.81	206+19.21	-68.54	748.01	
410A	347735.20	580561.51	206+39.79	-69.00		R = 20'
411	347714.50	580515.36	206+17.80	-114.98	747.77	
412	347735.16	580581.51	206+39.95	-49.00	747.19	
413	347736.64	580520.35	206+41.37	-110.16		
414	347736.76	580539.56	206+41.53	-90.95		
415	347732.27	580619.00	206+37.14	-11.50		BOC
416	347737.28	580619.01	206+42.18	-11.50		BOC
418A	347739.32	580593.52	206+44.22	-37.00	747.49	
419	347757.21	580635.44	206+62.08	5.00	748.19	
419A	347785.40	580634.97	206+90.20	5.00	747.88	
420	347757.24	580638.94	206+62.08	8.50		R = 3.5'

DATA TABLE						
POINT #	NORTHING	EASTING	STATION	OFFSET	ELEVATION	REMARK
421	347756.70	580642.39	206+61.51	11.95	748.26	
421A	347769.45	580643.29	206+74.16	13.00	748.21	
422	347734.92	580679.51	206+39.95	49.00	749.43	
423	347732.26	580624.00	206+37.14	-6.50		BOC
423A	347737.26	580624.02	206+42.16	-6.50		BOC
424	347768.26	580568.29	206+74.14	-62.00		R = 75'
426	347781.52	580617.05	206+86.73	-13.00	748.07	
426A	347819.34	580591.88	207+25.85	-37.00	747.13	
427	347781.61	580621.05	206+86.73	-9.00		
428	347781.70	580625.05	206+86.73	-5.00	747.99	R = 4'
428A	347754.01	580625.50	206+58.97	-5.00	748.14	
429	347859.66	580631.75	207+64.34	5.00	747.58	
430	348125.87	580577.79	210+36.17	-13.00	746.64	

LEGEND

ASPH	ASPHALTIC SURFACE DRIVEWAYS AND FIELD ENTRANCES
BUS PAD	CONCRETE PAVEMENT 9-INCH (DOWELED)
CD-6	CONCRETE DRIVEWAY 6-INCH
CS-5	CONCRETE SIDEWALK 5-INCH
CS-6	CONCRETE SIDEWALK 6-INCH
	CURB RAMP, TYPE X
	TRAFFIC FLOW
	PROPOSED INLET
	PROPOSED STORM SEWER MANHOLE
	CURB RAMP DETECTABLE WARNING FIELD
	DRAINAGE FLOW ARROW

SERVITE DR.

DEAN RD.

MATCH LINE STA. 206+00

MATCH LINE STA. 212+00

STH 181 / 76TH ST

CONCRETE CURB
PEDESTRIAN REQ'D

BUS PAD

ASPH

GREENHOUSE

VOID

NOTES:

ALL POINTS & RADII ARE TO FLAG OF CURB, UNLESS OTHERWISE NOTED.

53

PROJECT NO: 2140-08-73	HWY: STH 181	COUNTY: MILWAUKEE	PLAN DETAILS	SHEET 53 E

DATA TABLE						
POINT #	NORTHING	EASTING	STATION	OFFSET	ELEVATION	REMARK
404	347714.88	580699.18	206+20.65	68.82	748.71	
405	347734.87	580699.51	206+39.94	69.00		R = 20'
406	347714.17	580750.19	206+20.59	119.83	748.19	
407	347725.87	580625.47	206+30.75	-5.00	748.27	
408	347725.90	580621.47	206+30.75	-9.00		R = 4'
409	347725.93	580617.47	206+30.75	-13.00	748.31	
410	347715.21	580561.81	206+19.21	-68.54	748.01	
410A	347735.20	580561.51	206+39.79	-69.00		R = 20'
411	347714.50	580515.36	206+17.80	-114.98	747.77	
412	347736.16	580581.51	206+39.95	-49.00	747.19	
413	347736.64	580520.35	206+41.37	-110.16		
414	347736.76	580539.56	206+41.53	-90.95		
415	347732.27	580619.00	206+37.14	-11.50		BOC
416	347737.28	580619.01	206+42.18	-11.50		BOC
418A	347739.32	580593.52	206+44.22	-37.00	747.49	
419	347757.21	580635.44	206+62.08	5.00	748.19	
419A	347785.40	580634.97	206+90.20	5.00	747.88	
420	347757.24	580638.94	206+62.08	8.50		R = 3.5'

DATA TABLE						
POINT #	NORTHING	EASTING	STATION	OFFSET	ELEVATION	REMARK
421	347756.70	580642.39	206+61.51	11.95	748.26	
421A	347769.45	580643.29	206+74.16	13.00	748.21	
422	347734.92	580679.51	206+39.95	49.00	749.43	
423	347732.26	580624.00	206+37.14	-6.50		BOC
423A	347737.26	580624.02	206+42.16	-6.50		BOC
424	347768.26	580568.29	206+74.14	-62.00		R = 75'
426	347781.52	580617.05	206+86.73	-13.00	748.07	
426A	347819.34	580591.88	207+25.85	-37.00	747.13	
427	347781.61	580621.05	206+86.73	-9.00		
428	347781.70	580625.05	206+86.73	-5.00	747.99	R = 4'
428A	347754.01	580625.50	206+58.97	-5.00	748.14	
429	347859.66	580631.75	207+64.34	5.00	747.58	
430	348125.87	580577.79	210+36.17	-13.00	746.64	

LEGEND

ASPH	ASPHALTIC SURFACE DRIVEWAYS AND FIELD ENTRANCES
BUS PAD	CONCRETE PAVEMENT 9-INCH (DOWELED)
CD-6	CONCRETE DRIVEWAY 6-INCH
CS-5	CONCRETE SIDEWALK 5-INCH
CS-6	CONCRETE SIDEWALK 6-INCH
CS-7	CONCRETE SIDEWALK 7-INCH
	CURB RAMP, TYPE X
	TRAFFIC FLOW
	PROPOSED INLET
	PROPOSED STORM SEWER MANHOLE
	CURB RAMP DETECTABLE WARNING FIELD
	DRAINAGE FLOW ARROW

ADDENDUM #1
REV. SHEET 53
12/4/07

SERVITE DR.
DEAN RD.
STH 181 / 76TH ST
MATCH LINE STA. 206+00
MATCH LINE STA. 212+00
CONCRETE CURB PEDESTRIAN RED'D
BUS PAD
GREENHOUSE
ASPH

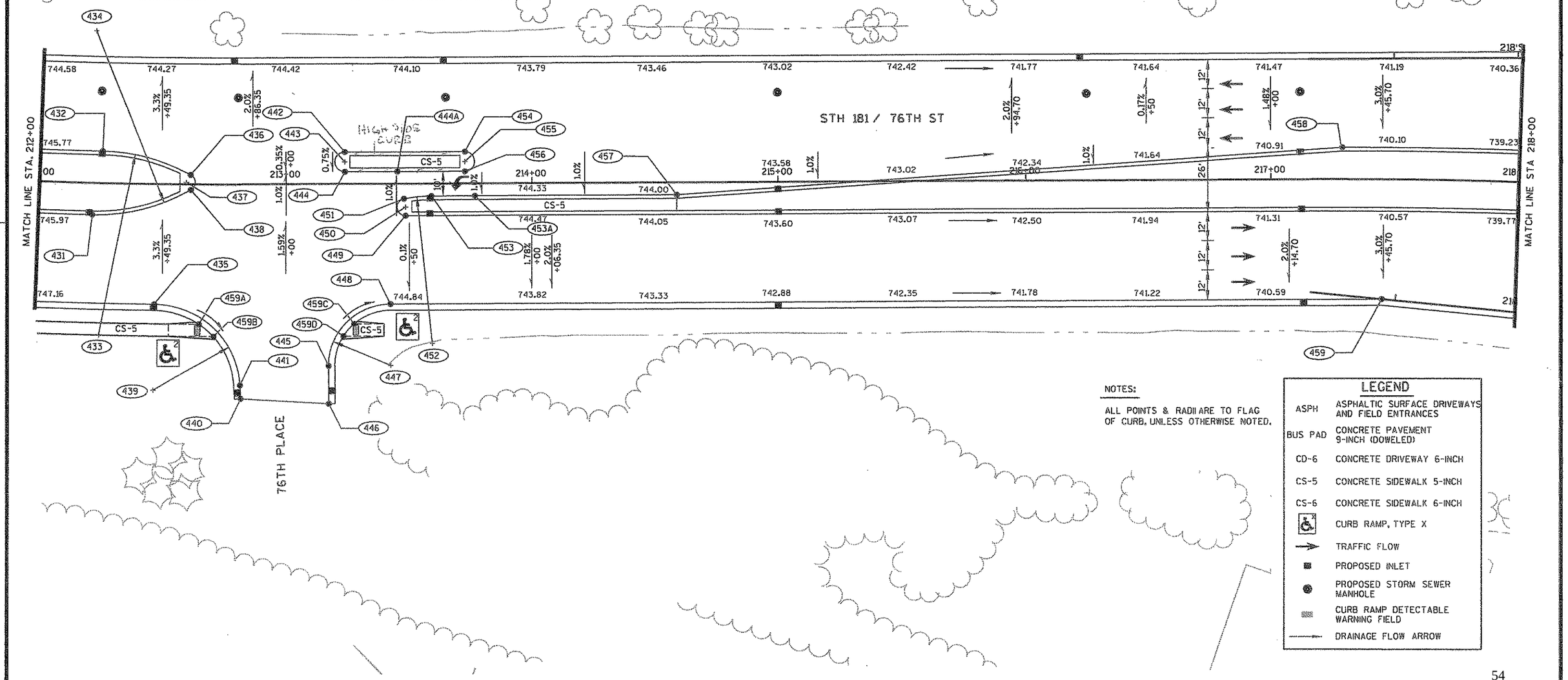
NOTES:
ALL POINTS & RADII ARE TO FLAG OF CURB, UNLESS OTHERWISE NOTED.

PROJECT NO: 2140-08-73	HWY: STH 181	COUNTY: MILWAUKEE	PLAN DETAILS	SHEET 53-A	E

FILE NAME : s:\gSAI\051--100\089\099\Micros\DESIGN\0873\021213_pd.dgn PLOT DATE : 12/4/2007 PLOT BY : ee...plotuser...ee PLOT NAME : PLOT SCALE : ee.....plotscale.....ee WISDOT/CADDS SHEET 42

DATA TABLE						
POINT #	NORTHING	EASTING	STATION	OFFSET	ELEVATION	REMARK
431	348312.13	580556.33	212+21.92	13.00	745.85	
432	348307.95	580530.39	212+25.68	-13.00	745.61	
433	348330.38	580602.06	212+25.61	62.00		R = 75'
434	348289.79	580484.72	212+21.85	-62.00		R = 75'
435	348347.37	580582.87	212+47.02	49.00	746.89	
436	348344.36	580528.25	212+61.13	-3.80	745.34	
437	348343.67	580531.73	212+59.37	-0.72		R = 3.5'
438	348346.35	580533.99	212+61.20	2.27	745.51	
439	348358.22	580616.14	212+47.17	84.00		R = 35'
440	348392.74	580608.11	212+80.78	87.38	746.02	
441	348390.67	580603.01	212+80.51	81.88	746.10	
442	348400.69	580499.12	213+23.94	-13.00	744.99	
443	348402.00	580502.90	213+23.94	-9.00		R = 4'
444	348403.31	580506.68	213+23.94	-5.00	744.72	
444A	348423.31	580499.74	213+45.11	-5.00	744.74	
445	348422.57	580583.61	213+16.95	74.00	745.87	
446	348427.70	580598.24	213+17.00	89.50	746.27	
447	348446.23	580575.42	213+42.06	74.00		R = 25'
448	348438.01	580551.80	213+41.95	49.00	745.01	
449	348432.21	580515.71	213+48.29	13.00	744.90	

DATA TABLE						
POINT #	NORTHING	EASTING	STATION	OFFSET	ELEVATION	REMARK
450	348431.06	580512.40	213+48.29	9.50		R = 3.5'
451	348429.32	580509.37	213+47.63	6.06	744.83	
452	348459.23	580561.37	213+59.00	65.00		R = 60'
453	348439.59	580504.69	213+58.87	5.00	744.68	
453A	348456.50	580498.83	213+76.77	5.00	744.48	
454	348446.85	580483.12	213+72.80	-13.00	744.68	
455	348448.16	580486.90	213+72.80	-9.00		R = 4'
456	348449.47	580490.68	213+72.80	-5.00	744.60	
457	348534.08	580471.94	214+58.87	5.00	743.93	
458	348783.32	580366.57	217+28.80	-13.00	740.46	
459	348818.25	580420.03	217+45.01	49.00	739.57	
459A	348366.91	580584.82	212+64.47	57.00		B0C
459B	348373.48	580587.71	212+70.07	62.00		B0C
459C	348426.70	580564.19	213+27.21	57.00		B0C
459D	348424.28	580570.32	213+22.92	62.00		B0C



NOTES:

ALL POINTS & RADII ARE TO FLAG OF CURB, UNLESS OTHERWISE NOTED.

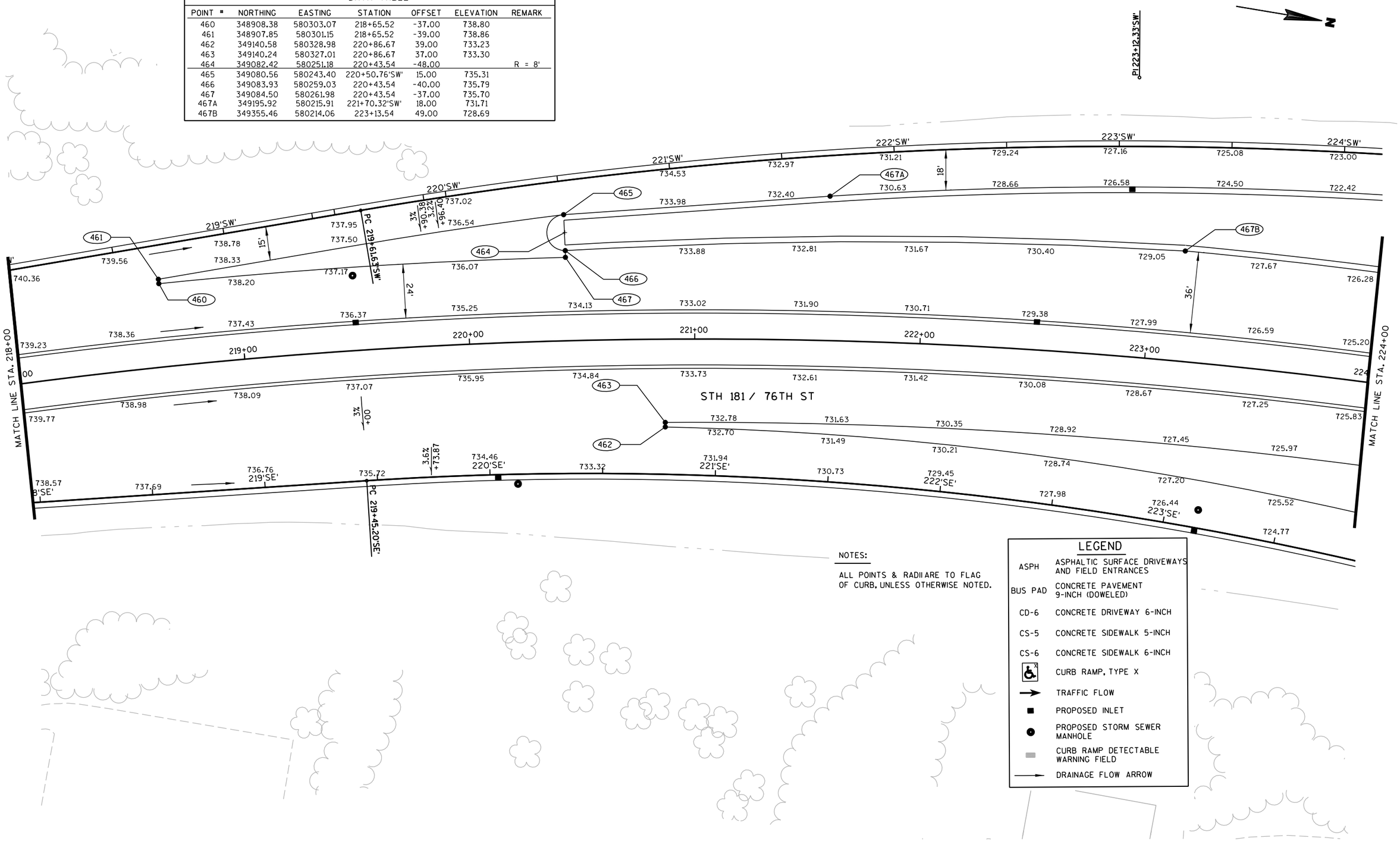
LEGEND

ASPH	ASPHALTIC SURFACE DRIVEWAYS AND FIELD ENTRANCES
BUS PAD	CONCRETE PAVEMENT 9-INCH (DOWELED)
CD-6	CONCRETE DRIVEWAY 6-INCH
CS-5	CONCRETE SIDEWALK 5-INCH
CS-6	CONCRETE SIDEWALK 6-INCH
	CURB RAMP, TYPE X
	TRAFFIC FLOW
	PROPOSED INLET
	PROPOSED STORM SEWER MANHOLE
	CURB RAMP DETECTABLE WARNING FIELD
	DRAINAGE FLOW ARROW

PROJECT NO: 2140-08-73	HWY: STH 181	COUNTY: MILWAUKEE	PLAN DETAILS	SHEET 54	E

FILE NAME : s:\@sai\051--100\089\099\micros\design\0873\021214_pd.dgn PLOT DATE : 7/30/2007 PLOT BY : $$...plotuser...$$ PLOT NAME : PLOT SCALE : $$.....plotscale.....$$ WISDOT/CADDS SHEET 42

DATA TABLE						
POINT #	NORTHING	EASTING	STATION	OFFSET	ELEVATION	REMARK
460	348908.38	580303.07	218+65.52	-37.00	738.80	
461	348907.85	580301.15	218+65.52	-39.00	738.86	
462	349140.58	580328.98	220+86.67	39.00	733.23	
463	349140.24	580327.01	220+86.67	37.00	733.30	
464	349082.42	580251.18	220+43.54	-48.00		R = 8'
465	349080.56	580243.40	220+50.76'SW'	15.00	735.31	
466	349083.93	580259.03	220+43.54	-40.00	735.79	
467	349084.50	580261.98	220+43.54	-37.00	735.70	
467A	349195.92	580215.91	221+70.32'SW'	18.00	731.71	
467B	349355.46	580214.06	223+13.54	49.00	728.69	



NOTES:

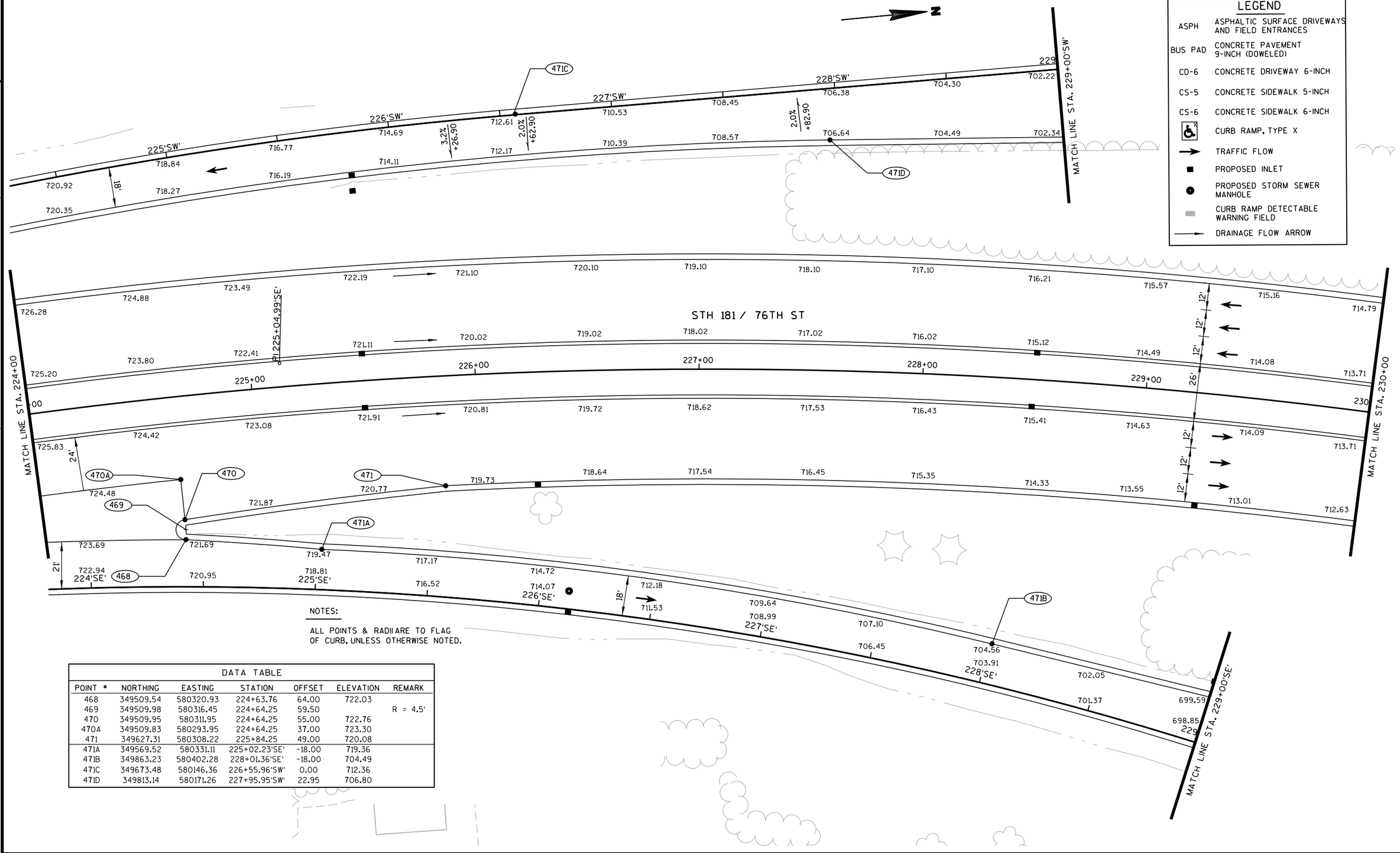
ALL POINTS & RADII ARE TO FLAG OF CURB, UNLESS OTHERWISE NOTED.

LEGEND

ASPH	ASPHALTIC SURFACE DRIVEWAYS AND FIELD ENTRANCES
BUS PAD	CONCRETE PAVEMENT 9-INCH (DOWELED)
CD-6	CONCRETE DRIVEWAY 6-INCH
CS-5	CONCRETE SIDEWALK 5-INCH
CS-6	CONCRETE SIDEWALK 6-INCH
	CURB RAMP, TYPE X
	TRAFFIC FLOW
	PROPOSED INLET
	PROPOSED STORM SEWER MANHOLE
	CURB RAMP DETECTABLE WARNING FIELD
	DRAINAGE FLOW ARROW

PROJECT NO: 2140-08-73	HWY: STH 181	COUNTY: MILWAUKEE	PLAN DETAILS	SHEET 55	E

2



DATA TABLE

POINT #	NORTHING	EASTING	STATION	OFFSET	ELEVATION	REMARK
468	349509.54	580320.93	224+63.76	64.00	722.03	
469	349509.98	580316.45	224+64.25	59.50		R = 4.5'
470	349509.95	580311.95	224+64.25	55.00	722.76	
470A	349509.83	580293.95	224+64.25	37.00	723.30	
471	349627.31	580308.22	225+84.25	49.00	720.08	
471A	349569.52	580331.11	225+02.23'SE'	-18.00	719.36	
471B	349863.23	580402.28	228+01.36'SE'	-18.00	704.49	
471C	349673.48	580146.36	226+55.96'SW'	0.00	712.36	
471D	349813.14	580171.26	227+95.95'SW'	22.95	706.80	

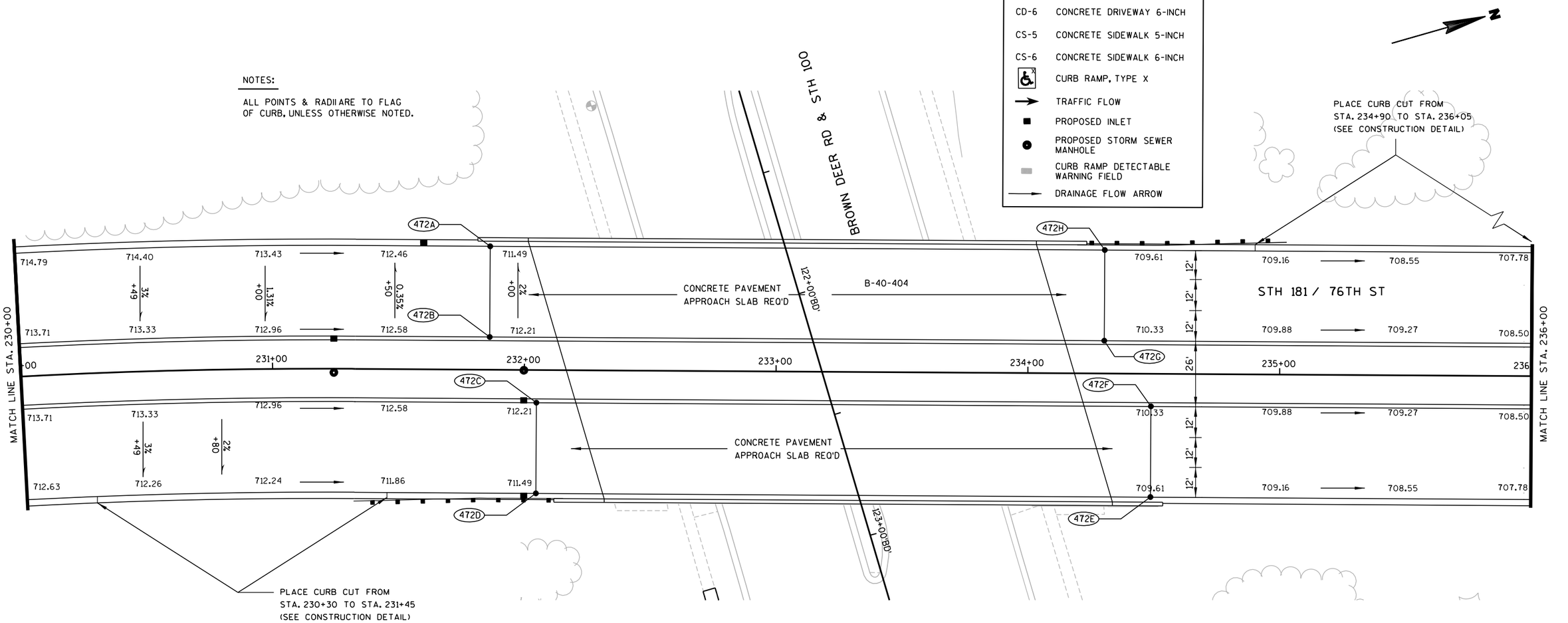
2

NOTES:

ALL POINTS & RADII ARE TO FLAG OF CURB, UNLESS OTHERWISE NOTED.

LEGEND

ASPH	ASPHALTIC SURFACE DRIVEWAYS AND FIELD ENTRANCES
BUS PAD	CONCRETE PAVEMENT 9-INCH (DOWELED)
CD-6	CONCRETE DRIVEWAY 6-INCH
CS-5	CONCRETE SIDEWALK 5-INCH
CS-6	CONCRETE SIDEWALK 6-INCH
	CURB RAMP, TYPE X
	TRAFFIC FLOW
	PROPOSED INLET
	PROPOSED STORM SEWER MANHOLE
	CURB RAMP DETECTABLE WARNING FIELD
	DRAINAGE FLOW ARROW



DATA TABLE

POINT #	NORTHING	EASTING	STATION	OFFSET	ELEVATION	REMARK
472A	350234.32	580317.25	231+86.17	-49.00	711.75	
472B	350224.21	580351.80	231+86.17	-13.00	712.31	
472C	350234.85	580382.00	232+04.88	13.00	712.17	
472D	350224.74	580416.55	232+04.88	49.00	711.35	
472E	350458.96	580485.14	234+48.93	49.00	709.62	
472F	350469.07	580450.59	234+48.93	13.00	710.34	
472G	350458.42	580420.38	234+30.22	-13.00	710.48	
472H	350468.54	580385.83	234+30.22	-49.00	709.76	

PROJECT NO: 2140-08-73	HWY: STH 181	COUNTY: MILWAUKEE	PLAN DETAILS	SHEET 57	E

DATA TABLE						
POINT #	NORTHING	EASTING	STATION	OFFSET	ELEVATION	REMARK
476	350885.02	580507.79	238+64.19	-49.00	702.58	
477	350996.80	580553.02	239+84.18	-37.00	700.41	
476A	350953.98	580630.10	239+64.74	49.00	701.85	
476B	351083.77	580630.10	240+88.63	15.88	698.82	
476C	351074.82	580630.10	240+86.93	47.68	699.91	
476D	351016.33	580630.10	240+22.23'NE'	-18.00	695.58	
624	351065.73	580700.64	240+71.64'NE'	-18.00	696.16	

MATCH LINE STA. 237+00'NW'

692.63 692.99 693.25 693.61 693.87 694.23 694.45 694.81 694.88 695.16 695.47 695.84 695.28 695.96 695.25 695.93 695.05 695.74 694.71 695.39 694.21 694.89

238'NW' 239'NW' 240'NW' 241'NW' 242'NW'

18' 2.0% +66.80 3.8% +12.80 CS-5

476 477 476B 476A 476C 476D 624

707.78 706.86 705.86 704.86 703.87 702.87 701.94 701.0 699.94 698.80 697.80 696.80 695.80

708.50 707.58 706.58 705.58 704.59 703.59 702.59 701.59 700.59 699.59 698.59 697.59 696.59

707.78 706.86 705.86 704.86 703.87 702.87 702.36 701.97 701.55 700.70 699.63 698.57 697.51

12' 12' 12' 26' 12' 12' 12'

2% +79.52 2.72% +00 3.3% +16.52 2% +59.52 0.64% +00 1.05% +50 2.74% +00 3.3% +16.52

STH 181 / 76TH ST

MATCH LINE STA. 236+00

237+00 238+00 239+00 240+00 241+00 242+00

MATCH LINE STA. 242+00

MATCH LINE STA. 233+00'NE'

692.41 693.21 693.96 694.66 695.31 695.92 696.40 696.67

693.15 693.75 239'NE' 694.35 694.95 240'NE' 695.56 696.05 241'NE' 696.34

692.55 NE'

18'

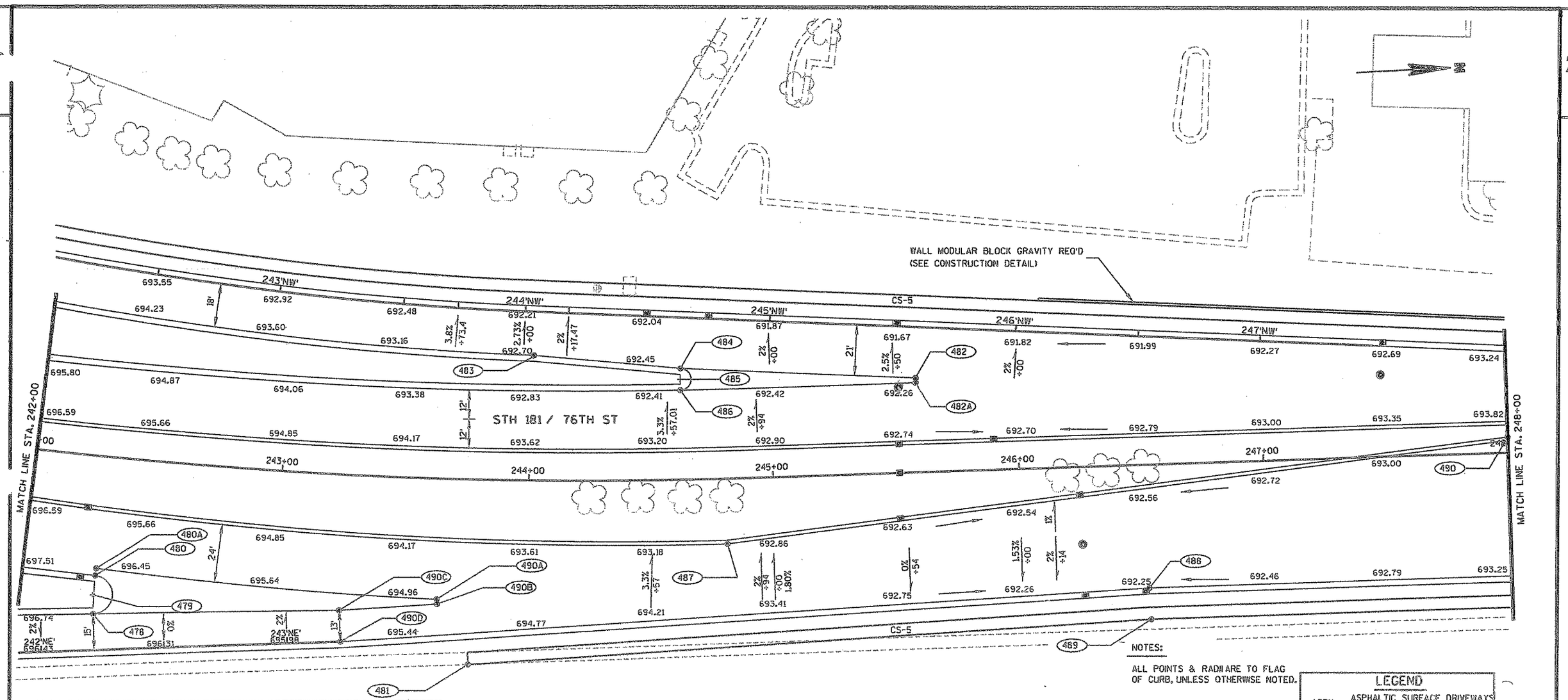
NOTES:

ALL POINTS & RADII ARE TO FLAG OF CURB, UNLESS OTHERWISE NOTED.

LEGEND

ASPH	ASPHALTIC SURFACE DRIVEWAYS AND FIELD ENTRANCES
BUS PAD	CONCRETE PAVEMENT 9-INCH (DOWELED)
CD-6	CONCRETE DRIVEWAY 6-INCH
CS-5	CONCRETE SIDEWALK 5-INCH
CS-6	CONCRETE SIDEWALK 6-INCH
	CURB RAMP, TYPE X
	TRAFFIC FLOW
	PROPOSED INLET
	PROPOSED STORM SEWER MANHOLE
	CURB RAMP DETECTABLE WARNING FIELD
	DRAINAGE FLOW ARROW

PROJECT NO: 2140-08-73 | HWY: STH 181 | COUNTY: MILWAUKEE | PLAN DETAILS | SHEET 58 58



NOTES:

ALL POINTS & RADII ARE TO FLAG OF CURB, UNLESS OTHERWISE NOTED.

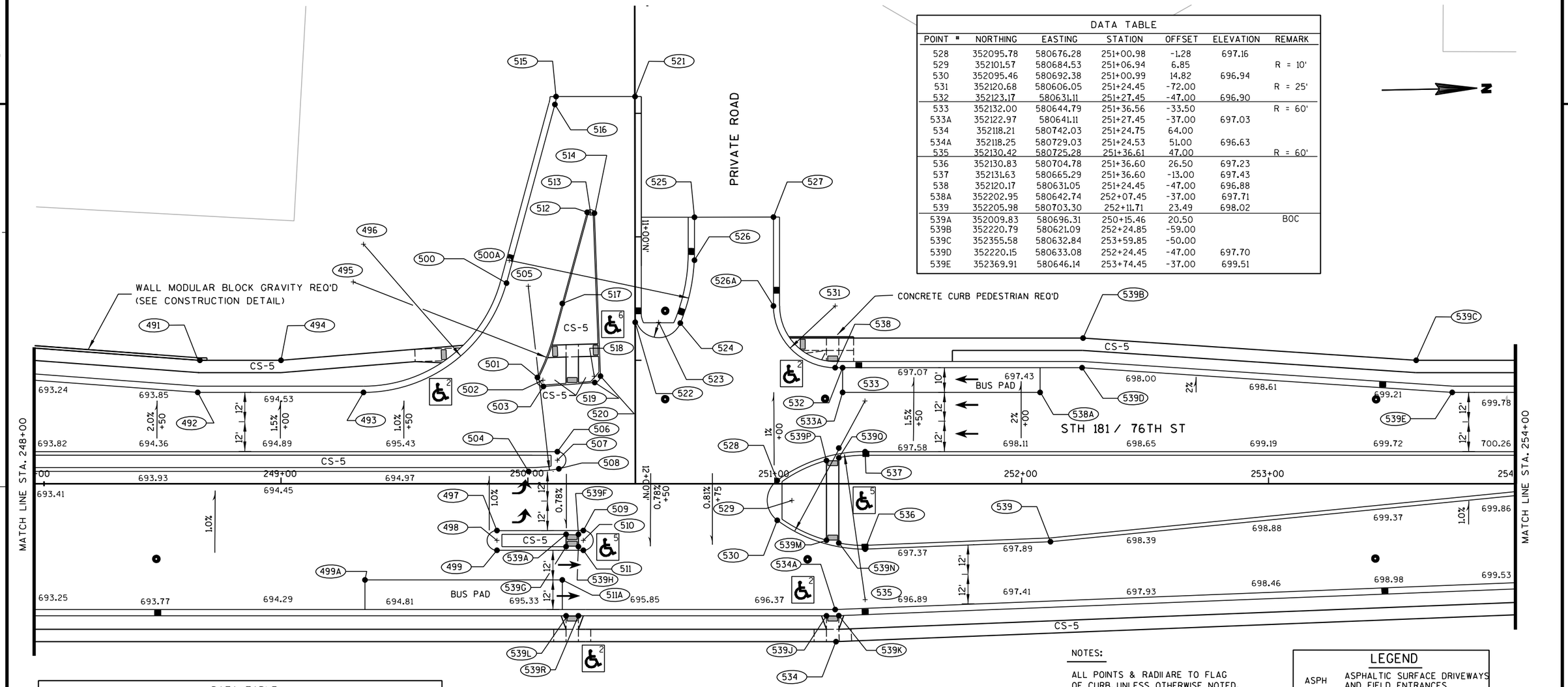
DATA TABLE

POINT #	NORTHING	EASTING	STATION	OFFSET	ELEVATION	REMARK
478	351215.64	580706.64	242+21.64'NE'	-15.00	696.57	
479	351215.80	580698.64	242+28.63	57.30	0.00	R = 8'
480	351217.33	580690.79	242+28.90	49.30	696.93	
480A	351217.90	580687.85	242+28.90	46.30	696.83	
481	351366.15	580735.83	243+77.14	76.55	0.00	
482	351554.77	580627.53	245+59.09	-39.00	692.19	
482A	351554.72	580629.53	245+59.09	-37.00	692.24	
483	351399.74	580609.70	244+04.14'NW'	18.00	692.65	
484	351459.40	580618.42	244+64.36'NW'	21.00	692.41	
485	351458.98	580622.90	244+62.64	-41.50	0.00	R = 4.5'
486	351458.82	580627.40	244+62.64	-37.00	692.37	
487	351474.64	580691.89	244+80.42	27.00	692.98	
488	351645.48	580719.40	246+51.66	51.00	692.26	
489	351645.48	580732.00	246+51.91	63.60	0.00	
490	351794.94	580666.43	248+00.00	-5.00	693.41	
490A	351354.76	580708.16	243+63.95	49.91	694.79	
490B	351354.78	580710.16	243+64.14	51.90	694.86	
490C	351315.44	580710.67	243+21.50'NE'	-13.00	695.40	
490D	351315.31	580723.68	243+21.64'NE'	0.00	695.77	

LEGEND

ASPH	ASPHALTIC SURFACE DRIVEWAYS AND FIELD ENTRANCES
BUS PAD	CONCRETE PAVEMENT 9-INCH (DOWELED)
CD-6	CONCRETE DRIVEWAY 6-INCH
CS-5	CONCRETE SIDEWALK 5-INCH
CS-6	CONCRETE SIDEWALK 6-INCH
	CURB RAMP, TYPE X
	TRAFFIC FLOW
	PROPOSED INLET
	PROPOSED STORM SEWER MANHOLE
	CURB RAMP DETECTABLE WARNING FIELD
	DRAINAGE FLOW ARROW

PROJECT NO: 2140-08-73	HWY: STH 181	COUNTY: MILWAUKEE	PLAN DETAILS	SHEET 59	E



DATA TABLE						
POINT #	NORTHING	EASTING	STATION	OFFSET	ELEVATION	REMARK
528	352095.78	580676.28	251+00.98	-1.28	697.16	
529	352101.57	580684.53	251+06.94	6.85		R = 10'
530	352095.46	580692.38	251+00.99	14.82	696.94	
531	352120.68	580606.05	251+24.45	-72.00		R = 25'
532	352123.17	580631.11	251+27.45	-47.00	696.90	
533	352132.00	580644.79	251+36.56	-33.50		R = 60'
533A	352122.97	580641.11	251+27.45	-37.00	697.03	
534	352118.21	580742.03	251+24.75	64.00		
534A	352118.25	580729.03	251+24.53	51.00	696.63	
535	352130.42	580725.28	251+36.61	47.00		R = 60'
536	352130.83	580704.78	251+36.60	26.50	697.23	
537	352131.63	580665.29	251+36.60	-13.00	697.43	
538	352120.17	580631.05	251+24.45	-47.00	696.88	
538A	352202.95	580642.74	252+07.45	-37.00	697.71	
539	352205.98	580703.30	252+11.71	23.49	698.02	
539A	352009.83	580696.31	250+15.46	20.50		BOC
539B	352220.79	580621.09	252+24.85	-59.00		
539C	352355.58	580632.84	253+59.85	-50.00		
539D	352220.15	580633.08	252+24.45	-47.00	697.70	
539E	352369.91	580646.14	253+74.45	-37.00	699.51	

DATA TABLE						
POINT #	NORTHING	EASTING	STATION	OFFSET	ELEVATION	REMARK
491	351862.97	580622.84	248+67.14	-50.00	0.00	
492	351861.83	580635.79	248+66.26	-37.00	694.09	
493	351928.96	580637.16	249+33.41	-37.00	694.97	
494	351895.83	580623.48	249+00.00	-50.00		
495	351925.71	580592.39	249+29.24	-81.69		R = 84'
496	351930.18	580577.16	249+33.40	-97.00		R = 60'
497	351981.83	580694.24	249+87.42	19.00	695.62	
498	351981.75	580698.24	249+87.42	23.00		R = 4'
499	351981.67	580702.24	249+87.42	27.00	695.68	
499A	351927.97	580713.15	249+33.96	39.00	694.88	
500	351987.75	580594.08	249+91.30	-81.26	696.08	
500A	351989.08	580584.90	249+92.44	-90.47		R = 75'
501	351999.50	580632.54	250+03.83	-43.05	695.89	
502	352001.69	580633.74	250+06.05	-41.90		R = 2.5'
503	352001.83	580636.23	250+06.24	-39.41	695.74	
504	351995.14	580670.51	250+00.25	-5.00	695.79	
505	351996.55	580595.52	250+00.13	-80.00		R = 75'
506	352006.98	580662.75	250+11.92	-13.00	696.09	
507	352006.91	580666.25	250+11.92	-9.50		R = 3.5'
508	352007.41	580669.71	250+12.50	-6.05	696.11	
509	352016.86	580694.96	250+22.46	19.00	696.18	

DATA TABLE						
POINT #	NORTHING	EASTING	STATION	OFFSET	ELEVATION	REMARK
510	352016.78	580698.96	250+22.46	23.00		R = 4'
511	352016.69	580702.96	250+22.46	27.00	696.04	
511A	352007.95	580714.78	250+13.96	39.00	695.71	
512	352020.98	580566.11	250+23.96	-109.90	697.35	
513	352022.42	580566.53	250+25.41	-109.51		R = 1.5'
514	352023.92	580566.51	250+26.91	-109.56	697.44	
515	352009.38	580518.96	250+11.40	-156.81	698.11	
516	352008.87	580522.20	250+10.96	-153.56	698.03	
517	352010.20	580602.84	250+13.92	-72.97	696.27	
518	352022.55	580632.56	250+26.88	-43.50		R = 2.5'
519	352022.69	580635.06	250+27.07	-41.00	695.94	
520	352025.05	580632.52	250+29.38	-43.59	696.02	
521	352041.40	580519.61	250+43.42	-156.81	698.75	
522	352039.56	580611.02	250+43.45	-65.38	696.90	
523	352048.85	580611.22	250+52.74	-65.37		R = 9.5'
524	352057.83	580611.74	250+61.73	-65.04	696.70	
525	352064.41	580568.95	250+67.44	-107.95	697.23	
526	352064.09	580586.40	250+67.47	-90.49	697.02	
526A	352095.69	580605.55	250+99.45	-72.00	696.38	
527	352096.41	580569.59	250+99.44	-107.96	696.78	

DATA TABLE						
POINT #	NORTHING	EASTING	STATION	OFFSET	ELEVATION	REMARK
539F	352014.83	580696.42	250+20.46	20.50		BOC
539G	352009.73	580701.31	250+15.46	25.50		BOC
539H	352014.73	580701.42	250+20.46	25.50		BOC
539J	352114.63	580731.41	251+20.95	53.50		BOC
539K	352119.63	580731.50	251+25.95	53.44		BOC
539L	352009.16	580729.31	250+15.46	53.50		BOC
539M	352115.25	580700.84	251+20.95	22.88		BOC
539N	352120.23	580702.09	251+25.95	24.03		BOC
539P	352115.91	580668.60	251+20.95	-9.37		BOC
5390	352120.93	580667.55	251+25.95	-10.52		BOC
539R	352014.16	580729.41	250+20.46	53.50		BOC

NOTES:

ALL POINTS & RADII ARE TO FLAG OF CURB, UNLESS OTHERWISE NOTED.

LEGEND

ASPH	ASPHALTIC SURFACE DRIVEWAYS AND FIELD ENTRANCES
BUS PAD	CONCRETE PAVEMENT 9-INCH (DOWELED)
CD-6	CONCRETE DRIVEWAY 6-INCH
CS-5	CONCRETE SIDEWALK 5-INCH
CS-6	CONCRETE SIDEWALK 6-INCH
	CURB RAMP, TYPE X
	TRAFFIC FLOW
	PROPOSED INLET
	PROPOSED STORM SEWER MANHOLE
	CURB RAMP DETECTABLE WARNING FIELD
	DRAINAGE FLOW ARROW

DATA TABLE

POINT #	NORTHING	EASTING	STATION	OFFSET	ELEVATION	REMARK
540	352468.72	580735.16	254+75.05	50.00		
541	352468.39	580722.16	254+74.45	37.00	700.27	
542	352491.40	580680.62	254+96.61	-5.00	700.85	
543	352545.78	580723.74	255+51.86	37.00	701.05	
544	352545.52	580736.73	255+51.86	50.00		
545	352543.74	580823.71	255+51.86	137.00		R = 100'
545A	352593.76	580712.71	255+99.60	25.00	701.72	
546	352567.85	580740.12	255+74.25	52.93		
547	352571.45	580727.63	255+77.60	40.37	701.20	
548	352644.16	580693.73	256+49.60	5.00	702.22	
549	352644.08	580697.73	256+49.60	9.00		R = 4'
550	352644.00	580701.73	256+49.60	13.00	702.32	
551	352657.22	580675.99	256+62.30	-13.00	702.84	
552	352670.01	580652.25	256+74.60	-37.00	702.83	
553	352674.12	580695.84	256+79.69	6.50		BOC
554	352670.52	580627.26	256+74.60	-62.00		R = 25'
555	352640.43	580683.65	256+45.68	-5.00	702.11	
556	352679.12	580695.94	256+84.60	6.50		BOC
557	352668.76	580609.33	256+72.48	-79.89		
558	352669.58	580677.28	256+74.68	-11.97	702.94	
559	352668.93	580680.72	256+74.10	-8.50		R = 3.5'
560	352668.94	580684.22	256+74.18	-5.00	702.88	
561	352687.03	580694.61	256+92.48	5.00	702.80	
562	352686.95	580698.60	256+92.48	9.00		R = 4'
563	352686.86	580702.60	256+92.48	13.00	702.66	

DATA TABLE

POINT #	NORTHING	EASTING	STATION	OFFSET	ELEVATION	REMARK
564	352639.57	580729.65	256+45.74	41.00	701.96	
564A	352672.24	580694.30	256+77.69	5.00	702.79	
565	352639.18	580732.59	256+45.42	43.95	701.89	
566	352655.69	580750.98	256+62.30	62.00		R = 75'
567	352639.60	580731.15	256+45.81	42.50		R = 1.5'
568	352639.65	580725.65	256+45.74	37.00	702.01	
569	352662.03	580785.00	256+69.33	95.88		R = 30'
570	352670.35	580756.15	256+77.06	66.87	701.87	
571	352687.69	580728.63	256+93.83	39.00	702.42	
571A	352673.75	580714.34	256+79.61	25.00	702.44	

DATA TABLE

POINT #	NORTHING	EASTING	STATION	OFFSET	ELEVATION	REMARK
572	352687.74	580731.13	256+93.94	41.50		R = 2.5'
573	352690.24	580731.18	256+96.44	41.50	702.44	
574	352689.99	580742.66	256+96.42	52.99	702.29	
575	352686.61	580742.59	256+93.04	52.98		R = 2.5'
576	352686.77	580746.31	256+93.28	56.70	702.25	
577	352719.96	580749.16	257+26.52	58.87	702.40	
578	352691.79	580797.75	256+99.34	108.03	702.19	
579	352716.49	580770.35	257+23.48	80.13	702.51	
580	352692.04	580785.58	256+99.34	95.85	702.11	
581	352715.97	580798.25	257+23.53	108.04	702.66	
582	352729.56	580810.50	257+37.37	120.00	702.70	
583	352730.71	580750.92	257+37.30	60.42	702.40	
584	352725.21	580750.82	257+31.80	60.42		R = 5.5'
585	352695.51	580627.76	256+99.60	-62.00	703.71	
586	352737.14	580621.70	257+41.10	-68.91		R = 5.5'
587	352731.64	580621.60	257+35.60	-68.90	704.18	
588	352696.53	580574.80	256+99.54	-114.98	704.48	
589	352732.52	580575.51	257+35.54	-114.99	705.16	
590	352743.86	580605.69	257+47.49	-85.06	704.58	
591	352743.75	580610.86	257+47.49	-79.89	704.89	

DATA TABLE

POINT #	NORTHING	EASTING	STATION	OFFSET	ELEVATION	REMARK
592	352742.55	580622.69	257+46.53	-68.03	703.96	
593	352767.86	580606.21	257+71.49	-85.02	703.85	
594	352767.57	580619.23	257+71.47	-72.00	703.64	
595	352792.57	580619.74	257+96.48	-72.00		R = 25'
596	352792.06	580644.73	257+96.47	-47.00	703.83	
596A	352791.85	580654.73	257+96.47	-37.00	703.88	
597	352773.24	580682.36	257+78.43	-9.00		R = 4'
597A	352782.55	580680.05	257+87.69	-11.50		BOC
598	352773.32	580678.36	257+78.43	-13.00	703.84	
598A	352787.55	580680.15	257+92.69	-11.50		BOC

DATA TABLE

POINT #	NORTHING	EASTING	STATION	OFFSET	ELEVATION	REMARK
599	352773.16	580686.36	257+78.43	-5.00	703.68	
599A	352789.93	580686.70	257+95.20	-5.00	703.73	
600	352793.21	580696.77	257+98.69	5.00	703.58	
600A	352821.71	580697.35	258+27.19	5.00	704.09	
601	352793.14	580700.27	257+98.69	8.50		R = 3.5'
601A	352782.45	580685.05	257+87.69	-6.50		BOC
602	352763.66	580811.18	257+71.47	119.99	702.12	
602A	352787.40	580685.15	257+92.69	-6.50		BOC
603	352791.52	580771.77	257+98.52	80.02		R = 75'
604	352764.62	580758.28	257+71.35	67.08	702.93	

DATA TABLE

POINT #	NORTHING	EASTING	STATION	OFFSET	ELEVATION	REMARK
605	352674.02	580700.84	256+79.60	11.50		BOC
606	352789.62	580758.71	257+96.35	67.00		R = 25'
607	352679.02	580700.94	256+84.60	11.50		BOC
608	352790.12	580733.71	257+96.35	42.00	703.18	
609	352792.49	580703.71	257+98.11	11.95	703.47	
610	352804.96	580705.01	258+10.60	13.00	703.58	
611	352806.49	580630.02	258+10.60	-62.00		R = 75'
612	352787.40	580685.15	257+92.69	-6.50		
613	352818.08	580679.27	258+23.19	-13.00	704.23	
614	352817.99	580683.27	258+23.19	-9.00	0.00	R = 4'
614A	352871.84	580656.36	258+76.47	-37.00	704.38	
615	352817.91	580687.27	258+23.19	-5.00	704.19	
616	352970.68	580700.38	259+76.19	5.00	705.25	

PRIVATE ROAD

NORTHRIDGE LAKES BLVD

STH 181 / 76TH ST

CONCRETE CURB PEDESTRIAN REQ'D

WALL MODULAR BLOCK GRAVITY REQ'D (SEE CONSTRUCTION DETAIL)

EXISTING WE FACILITY

VOID

NOTES:
ALL POINTS & RADII ARE TO FLAG OF CURB, UNLESS OTHERWISE NOTED.

LEGEND

ASPH	ASPHALTIC SURFACE DRIVEWAYS AND FIELD ENTRANCES
BUS PAD	CONCRETE PAVEMENT 9-INCH (DOWELED)
CD-6	CONCRETE DRIVEWAY 6-INCH
CS-5	CONCRETE SIDEWALK 5-INCH
CS-6	CONCRETE SIDEWALK 6-INCH
	CURB RAMP, TYPE X
	TRAFFIC FLOW
	PROPOSED INLET
	PROPOSED STORM SEWER MANHOLE
	CURB RAMP DETECTABLE WARNING FIELD
	DRAINAGE FLOW ARRC

PROJECT NO: 2140-08-73 | HWY: STH 181 | COUNTY: MILWAUKEE | PLAN DETAILS | SHEET 61 | E

ADDENDUM #1
REV. SHEET 61
12/4/07

DATA TABLE

POINT #	NORTHING	EASTING	STATION	OFFSET	ELEVATION	REMARK
540	352468.72	580735.16	254+75.05	50.00		
541	352468.39	580722.16	254+74.45	37.00	700.27	
542	352491.40	580680.62	254+96.61	-5.00	700.85	
543	352545.78	580723.74	255+51.86	37.00	701.05	
544	352545.52	580736.73	255+51.86	50.00		
545	352543.74	580823.71	255+51.86	137.00		R = 100'
545A	352593.76	580712.71	255+99.60	25.00	701.72	
546	352567.85	580740.12	255+74.25	52.93		
547	352571.45	580727.63	255+77.60	40.37	701.20	
548	352644.16	580693.73	256+49.60	5.00	702.22	
549	352644.08	580697.73	256+49.60	9.00		R = 4'
550	352644.00	580701.73	256+49.60	13.00	702.32	
551	352657.22	580675.99	256+62.30	-13.00	702.84	
552	352670.01	580652.25	256+74.60	-37.00	702.83	
553	352674.12	580695.84	256+79.69	6.50		BOC
554	352670.52	580627.26	256+74.60	-62.00		R = 25'
555	352640.43	580683.65	256+45.68	-5.00	702.11	
556	352679.12	580695.94	256+84.60	6.50		BOC
557	352668.76	580609.33	256+72.48	-79.89		
558	352669.58	580677.28	256+74.68	-11.97	702.94	
559	352668.93	580680.72	256+74.10	-8.50		R = 3.5'
560	352668.94	580684.22	256+74.18	-5.00	702.88	
561	352687.03	580694.51	256+92.48	5.00	702.80	
562	352686.95	580598.60	256+92.48	9.00		R = 4'
563	352686.86	580702.60	256+92.48	13.00	702.66	

DATA TABLE

POINT #	NORTHING	EASTING	STATION	OFFSET	ELEVATION	REMARK
564	352639.57	580729.55	256+45.74	41.00	701.96	
564A	352672.24	580694.30	256+77.69	5.00	702.79	
565	352639.18	580732.59	256+45.42	43.95	701.89	
566	352655.69	580750.98	256+62.30	62.00		R = 75'
567	352639.60	580731.15	256+45.81	42.50		R = 1.5'
568	352639.65	580725.65	256+45.74	37.00	702.01	
569	352662.03	580785.00	256+69.33	95.88		R = 30'
570	352670.35	580756.15	256+77.06	66.87	701.87	
571	352687.69	580728.63	256+93.83	39.00	702.42	
571A	352673.75	580714.34	256+79.61	25.00	702.44	

DATA TABLE

POINT #	NORTHING	EASTING	STATION	OFFSET	ELEVATION	REMARK
572	352687.74	580731.13	256+93.94	41.50		R = 2.5'
573	352690.24	580731.18	256+96.44	41.50	702.44	
574	352689.99	580742.66	256+96.42	52.99	702.29	
575	352686.61	580742.59	256+93.04	52.98		R = 2.5'
576	352686.77	580746.31	256+93.28	56.70	702.25	
577	352719.98	580749.16	257+26.52	58.87	702.40	
578	352691.79	580797.75	256+99.34	108.03	702.19	
579	352716.49	580770.35	257+23.48	80.13	702.51	
580	352692.04	580785.58	256+99.34	95.85	702.11	
581	352715.97	580798.25	257+23.53	108.04	702.66	
582	352729.56	580810.50	257+37.37	120.00	702.70	
583	352730.71	580750.92	257+37.30	60.42	702.40	
584	352725.21	580750.82	257+31.80	60.42		R = 5.5'
585	352695.51	580627.76	256+99.60	-62.00	703.71	
586	352737.14	580621.70	257+41.10	-68.91		R = 5.5'
587	352731.64	580621.60	257+35.60	-68.90	704.18	
588	352696.53	580574.80	256+99.54	-114.98	704.48	
589	352732.52	580575.51	257+35.54	-114.99	705.16	
590	352743.86	580605.69	257+47.49	-85.06	704.58	
591	352743.75	580510.86	257+47.49	-79.89	704.89	

DATA TABLE

POINT #	NORTHING	EASTING	STATION	OFFSET	ELEVATION	REMARK
592	352742.55	580622.69	257+46.53	-68.03	703.96	
593	352767.86	580606.21	257+71.49	-85.02	703.85	
594	352767.57	580619.23	257+71.47	-72.00	703.64	
595	352792.57	580619.74	257+96.48	-72.00		R = 25'
596	352792.06	580644.73	257+96.47	-47.00	703.83	
596A	352791.85	580654.73	257+96.47	-37.00	703.88	
597	352773.24	580682.36	257+78.43	-9.00		R = 4'
597A	352782.55	580680.05	257+87.69	-11.50		BOC
598	352773.32	580678.36	257+78.43	-13.00	703.64	
598A	352787.55	580680.15	257+52.69	-11.50		BOC

DATA TABLE

POINT #	NORTHING	EASTING	STATION	OFFSET	ELEVATION	REMARK
599	352773.16	580686.36	257+78.43	-5.00	703.68	
599A	352789.93	580686.70	257+95.20	-5.00	703.73	
600	352793.21	580696.77	257+98.69	5.00	703.58	
600A	352821.71	580697.35	258+27.19	5.00	704.09	
601	352793.14	580700.27	257+98.69	8.50		R = 3.5'
601A	352782.45	580685.05	257+87.69	-6.50		BOC
602	352763.66	580811.18	257+71.47	119.99	702.12	
602A	352787.40	580685.15	257+92.69	-6.50		BOC
603	352791.52	580771.77	257+98.52	80.02		R = 75'
604	352764.62	580758.28	257+71.35	67.08	702.93	

DATA TABLE

POINT #	NORTHING	EASTING	STATION	OFFSET	ELEVATION	REMARK
605	352674.02	580700.84	256+79.60	11.50		BOC
606	352789.62	580758.71	257+96.35	67.00		R = 25'
607	352679.02	580700.94	256+84.60	11.50		BOC
608	352790.12	580733.71	257+96.35	42.00	703.18	
609	352792.49	580703.71	257+98.11	11.95	703.47	
610	352804.96	580705.01	258+10.60	13.00	703.58	
611	352805.49	580630.02	258+10.60	-62.00		R = 75'
612	352787.40	580685.15	257+92.69	-6.50		
613	352818.08	580679.27	258+23.19	-13.00	704.23	
614	352817.99	580683.27	258+23.19	-9.00	0.00	R = 4'
614A	352871.84	580656.36	258+76.47	-37.00	704.38	
615	352817.91	580687.27	258+23.19	-5.00	704.19	
616	352970.68	580700.38	259+76.19	5.00	705.25	

PRIVATE ROAD

CONCRETE CURB PEDESTRIAN REQ'D

WALL MODULAR BLOCK GRAVITY REQ'D (SEE CONSTRUCTION DETAIL)

EXIST. WC FACING MEAS. TO BACK OF CURB

STH 181 / 76TH ST

NORTHRIDGE LAKES BLVD

MATCH LINE STA. 254+00

MATCH LINE STA. 260+00

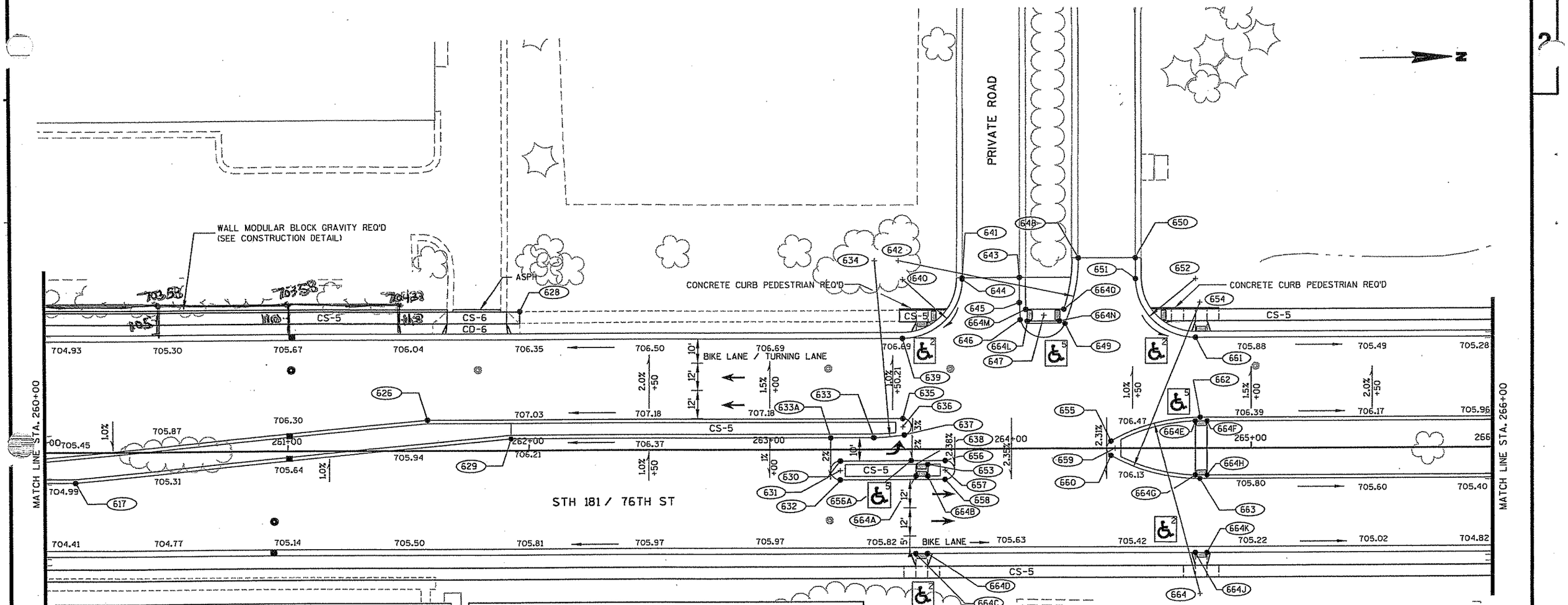
NOTES:
ALL POINTS & RADII ARE TO FLAG OF CURB, UNLESS OTHERWISE NOTED.

LEGEND

ASPH	ASPHALTIC SURFACE DRIVEWAYS AND FIELD ENTRANCES
BUS PAD	CONCRETE PAVEMENT 9-INCH (DOWELED)
CD-6	CONCRETE DRIVEWAY 6-INCH
CS-5	CONCRETE SIDEWALK 5-INCH
CS-6	CONCRETE SIDEWALK 6-INCH
CS-7	CONCRETE SIDEWALK 7-INCH
	CURB RAMP, TYPE X
	TRAFFIC FLOW
	PROPOSED INLET
	PROPOSED STORM SEWER MANHOLE
	CURB RAMP DETECTABLE WARNING FIELD
	DRAINAGE FLOW ARROW

PROJECT NO: 2140-08-73	HWY: STH 181	COUNTY: MILWAUKEE	PLAN DETAILS	SHEET 61-A	E

FILE NAME : s:\eSAI\051--100\089\099\Micros\DESIGN\0873\021221_pd.dgn
PLOT DATE : 12/4/2007
PLOT BY : ss...plotuser...ss PLOT NAME :
PLOT SCALE : ss.....plotscale.....ss WISDOT/CADDS SHEET 42



DATA TABLE						
POINT #	NORTHING	EASTING	STATION	OFFSET	ELEVATION	REMARK
617	353006.75	580709.12	260+12.42	13.00	705.08	
626	353152.74	580685.91	261+57.93	-13.00	706.78	
628	353191.68	580640.87	261+96.00	-59.00		
629	353187.05	580694.57	261+92.40	-5.00	706.17	
630	353323.74	580707.20	263+29.32	5.00	706.64	
631	353323.67	580711.20	263+29.32	9.00		R = 4'
632	353323.59	580715.20	263+29.32	13.00	706.49	
633	353337.02	580697.45	263+42.40	-5.00	706.79	
633A	353319.94	580697.12	263+25.32	-5.00	706.85	
634	353338.45	580622.46	263+42.44	-80.00		R = 75'
635	353349.09	580689.68	263+54.32	-13.00	707.01	
636	353349.03	580693.18	263+54.32	-9.50		R = 3.5'
637	353349.54	580696.64	263+54.91	-6.05	706.77	
638	353354.22	580709.28	263+59.82	6.50		BOC
639	353349.43	580655.68	263+54.01	-47.00	706.67	
640	353349.91	580630.68	263+54.01	-72.00		R = 25'
641	353374.91	580630.66	263+79.01	-72.50	706.86	
642	353348.29	580622.51	263+52.23	-80.14		R = 75'
643	353398.98	580631.04	264+03.08	-72.58	707.07	
644	353374.90	580631.16	263+79.01	-72.00	706.80	
645	353398.79	580641.70	264+03.09	-61.93	706.70	
646	353399.03	580648.06	264+03.46	-55.57	706.42	
647	353408.50	580647.30	264+12.91	-56.51		R = 9.5'
648	353423.17	580624.62	264+27.14	-79.47	707.24	
649	353417.65	580650.82	264+22.12	-53.17	706.24	

DATA TABLE						
POINT #	NORTHING	EASTING	STATION	OFFSET	ELEVATION	REMARK
650	353447.32	580623.74	264+51.27	-80.81	706.96	
651	353447.03	580632.58	264+51.15	-71.96	706.79	
652	353472.02	580633.03	264+76.15	-72.00		R = 25'
653	353359.22	580709.38	263+64.82	6.50		BOC
654	353473.78	580643.06	264+78.09	-62.00		R = 75'
655	353435.35	580701.34	264+40.79	-3.00	706.36	
656	353366.43	580708.02	263+72.01	5.00	706.50	
656A	353352.23	580707.74	263+57.81	5.00	706.56	
657	353366.36	580712.02	263+72.01	9.00		R = 4'
658	353366.28	580716.02	263+72.01	13.00	706.31	
659	353437.04	580704.40	264+42.54	0.03		R = 3.5'
660	353435.35	580708.21	264+40.92	3.87	706.27	
661	353471.55	580658.02	264+76.15	-47.00	706.06	
662	353472.95	580692.06	264+78.21	-13.00	706.48	
663	353472.34	580718.05	264+78.09	13.00	705.89	
664	353471.52	580767.04	264+78.21	62.00		R = 75'
664A	353354.12	580714.28	263+59.82	11.50		BOC
664B	353359.12	580714.38	263+64.82	11.50		BOC
664C	353353.49	580747.28	263+59.82	44.50		BOC
664D	353358.49	580747.37	263+64.82	44.50		BOC
664E	353470.87	580693.52	264+76.15	-11.50		BOC
664F	353475.86	580693.61	264+81.15	-11.50		BOC
664G	353470.43	580716.49	264+76.15	11.50		BOC
664H	353475.42	580716.61	264+81.15	11.50		BOC
664J	353469.80	580749.51	264+76.15	44.50		BOC

NOTES:

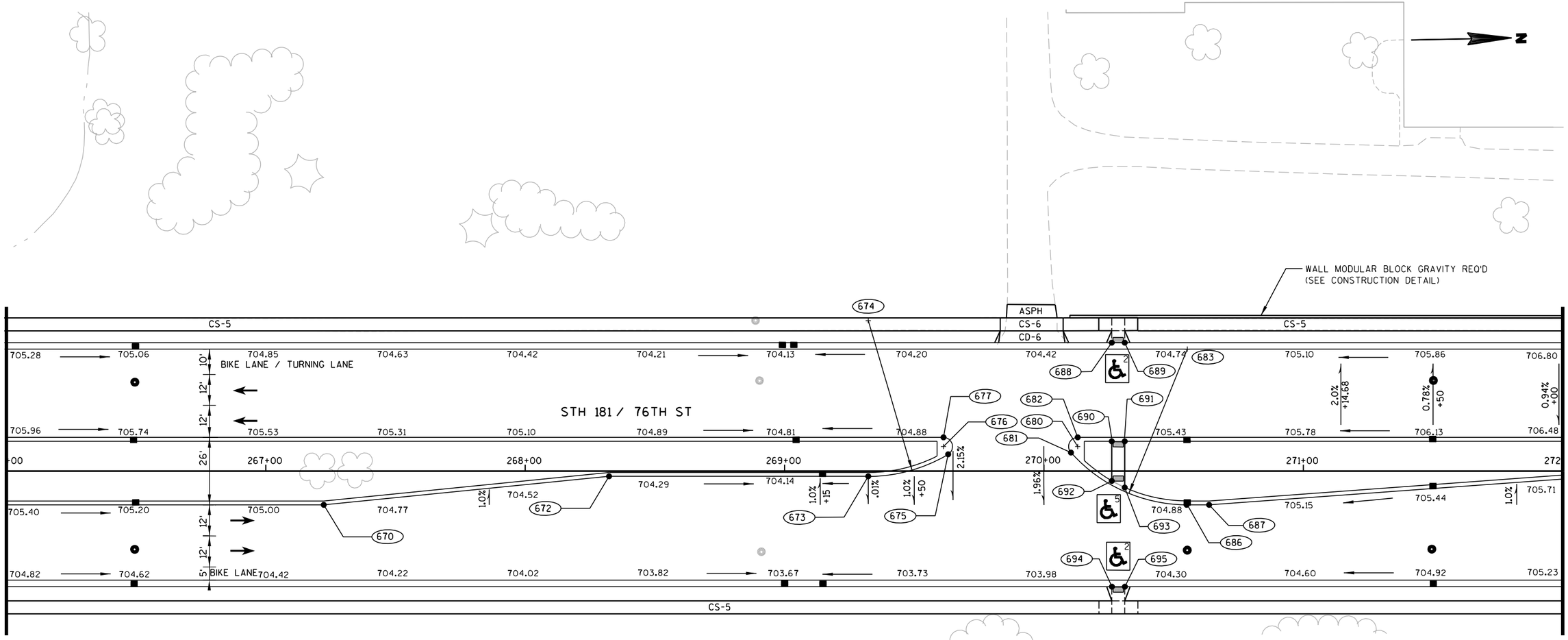
ALL POINTS & RADII ARE TO FLAG OF CURB, UNLESS OTHERWISE NOTED.

DATA TABLE						
POINT #	NORTHING	EASTING	STATION	OFFSET	ELEVATION	REMARK
664K	353474.79	580749.60	264+81.15	44.50		BOC
664L	353401.92	580649.69	264+06.38	-54.00		BOC
664M	353401.34	580644.67	264+05.70	-59.00		BOC
664N	353414.99	580649.94	264+19.45	-54.00		BOC
664Q	353416.88	580644.97	264+21.24	-59.00		BOC

LEGEND

ASPH	ASPHALTIC SURFACE DRIVEWAYS AND FIELD ENTRANCES
BUS PAD	CONCRETE PAVEMENT 9-INCH (DOWELED)
CD-6	CONCRETE DRIVEWAY 6-INCH
CS-5	CONCRETE SIDEWALK 5-INCH
CS-6	CONCRETE SIDEWALK 6-INCH
	CURB RAMP, TYPE X
	TRAFFIC FLOW
	PROPOSED INLET
	PROPOSED STORM SEWER MANHOLE
	CURB RAMP DETECTABLE WARNING FIELD
	DRAINAGE FLOW ARROW

PROJECT NO: 2140-08-73	HWY: STH 181	COUNTY: MILWAUKEE	PLAN DETAILS	SHEET 62	E



DATA TABLE						
POINT #	NORTHING	EASTING	STATION	OFFSET	ELEVATION	REMARK
670	353716.51	580722.73	267+22.31	13.00	704.91	
672	353826.69	580713.84	268+32.30	2.00	704.36	
673	353926.67	580715.76	269+32.30	2.00	704.27	
674	353927.82	580655.77	269+32.50	-58.00		R = 60'
675	353957.61	580707.85	269+63.08	-6.50	704.75	
676	353955.88	580704.82	269+61.29	-9.50		R = 3.5'
677	353955.94	580701.32	269+61.29	-13.00	704.92	
680	354007.60	580705.81	270+13.02	-9.50		R = 3.5'
681	354004.93	580708.08	270+10.40	-7.18	705.08	
682	354007.66	580702.31	270+13.02	-13.00	705.18	
683	354050.56	580669.12	270+55.27	-47.00		R = 60'
686	354049.42	580729.12	270+55.28	13.00	704.91	
687	354057.83	580729.28	270+63.69	13.00	704.96	
688	354021.48	580666.07	270+26.14	-49.50		BOC
689	354026.48	580666.16	270+31.14	-49.50		BOC
690	354020.75	580704.06	270+26.14	-11.50		BOC
691	354025.75	580704.16	270+31.14	-11.50		BOC
692	354020.46	580719.28	270+26.14	3.73		BOC
693	354025.41	580721.94	270+31.14	6.29		BOC
694	354019.68	580760.05	270+26.14	44.50		BOC
695	354024.68	580760.15	270+31.14	44.50		BOC

NOTES:

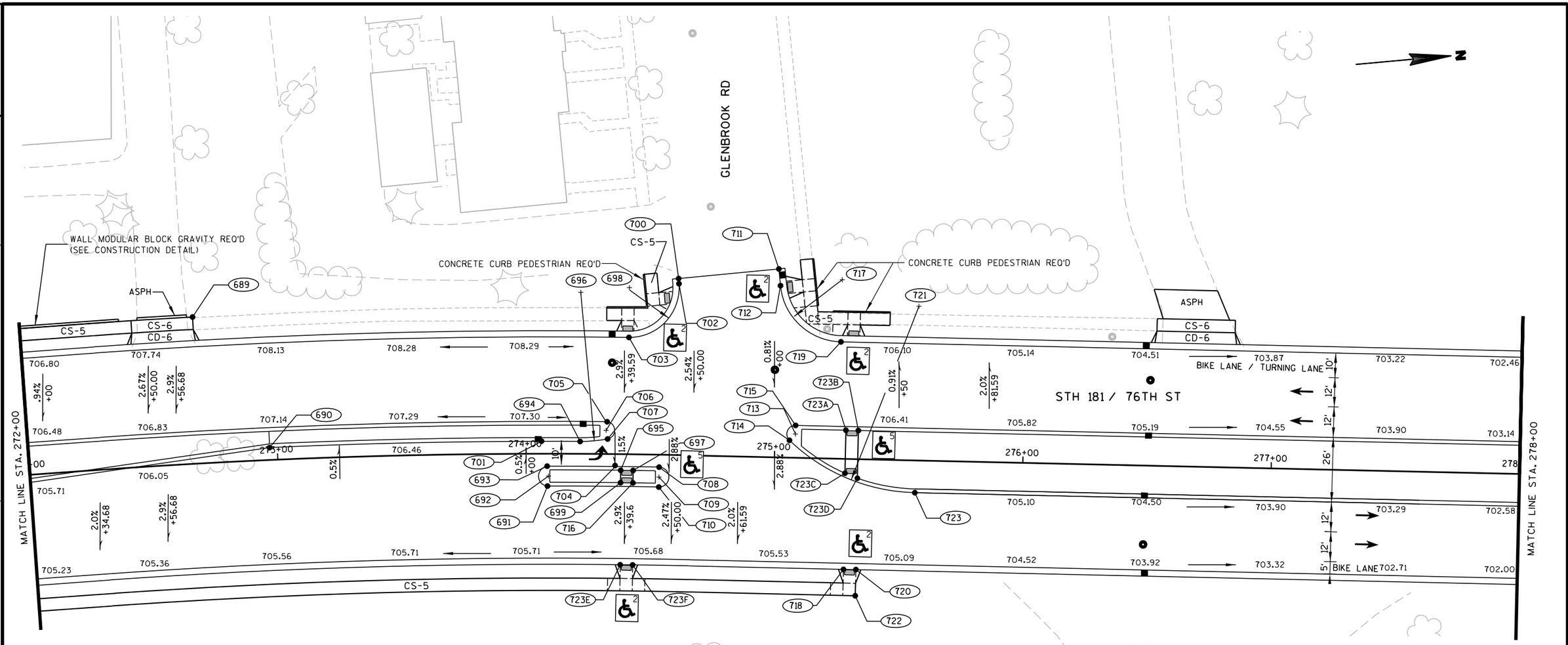
ALL POINTS & RADII ARE TO FLAG OF CURB, UNLESS OTHERWISE NOTED.

LEGEND

ASPH	ASPHALTIC SURFACE DRIVEWAYS AND FIELD ENTRANCES
BUS PAD	CONCRETE PAVEMENT 9-INCH (DOWELED)
CD-6	CONCRETE DRIVEWAY 6-INCH
CS-5	CONCRETE SIDEWALK 5-INCH
CS-6	CONCRETE SIDEWALK 6-INCH
	CURB RAMP, TYPE X
	TRAFFIC FLOW
	PROPOSED INLET
	PROPOSED STORM SEWER MANHOLE
	CURB RAMP DETECTABLE WARNING FIELD
	DRAINAGE FLOW ARROW

PROJECT NO: 2140-08-73	HWY: STH 181	COUNTY: MILWAUKEE	PLAN DETAILS	SHEET	E

FILE NAME : s:\@sdi\051--100\089\099\micros\design\0873\021223_pd.dgn PLOT DATE : 7/30/2007 PLOT BY : $$...plotuser...$$ PLOT NAME : PLOT SCALE : $$.....plotscale.....$$ WISDOT/CADDS SHEET 42



NOTES:

ALL POINTS & RADII ARE TO FLAG OF CURB, UNLESS OTHERWISE NOTED.

DATA TABLE

POINT #	NORTHING	EASTING	STATION	OFFSET	ELEVATION	REMARK
689	354265.27	580661.55	272+66.75	-59.00		
690	354291.49	580716.66	272+96.94	-5.00	706.21	
691	354401.46	580742.14	274+08.57	13.00	706.53	
692	354402.28	580738.16	274+09.02	9.00		R = 4'
693	354402.11	580734.16	274+08.50	5.00	706.49	
694	354416.17	580725.42	274+21.69	-5.00	706.83	
695	354431.38	580738.47	274+38.12	6.50		BOC
696	354421.83	580664.68	274+21.75	-65.00		R = 60'
697	354436.36	580738.98	274+43.13	6.50		BOC
698	354441.56	580665.63	274+40.81	-67.00		R = 20'
699	354430.88	580743.44	274+38.12	11.50		BOC
700	354461.57	580663.71	274+60.00	-71.02	707.98	
701	354400.73	580723.89	274+06.21	-5.00	706.44	
702	354461.55	580665.78	274+60.20	-68.97	707.99	
703	354439.52	580685.52	274+40.81	-47.00	708.18	
704	354429.29	580736.76	274+35.82	5.00	706.94	
705	354427.36	580718.47	274+32.12	-13.00	707.22	
706	354427.01	580721.95	274+32.12	-9.50		
707	354427.33	580725.44	274+32.79	-6.06	707.10	
708	354446.91	580738.58	274+53.61	5.00	706.62	

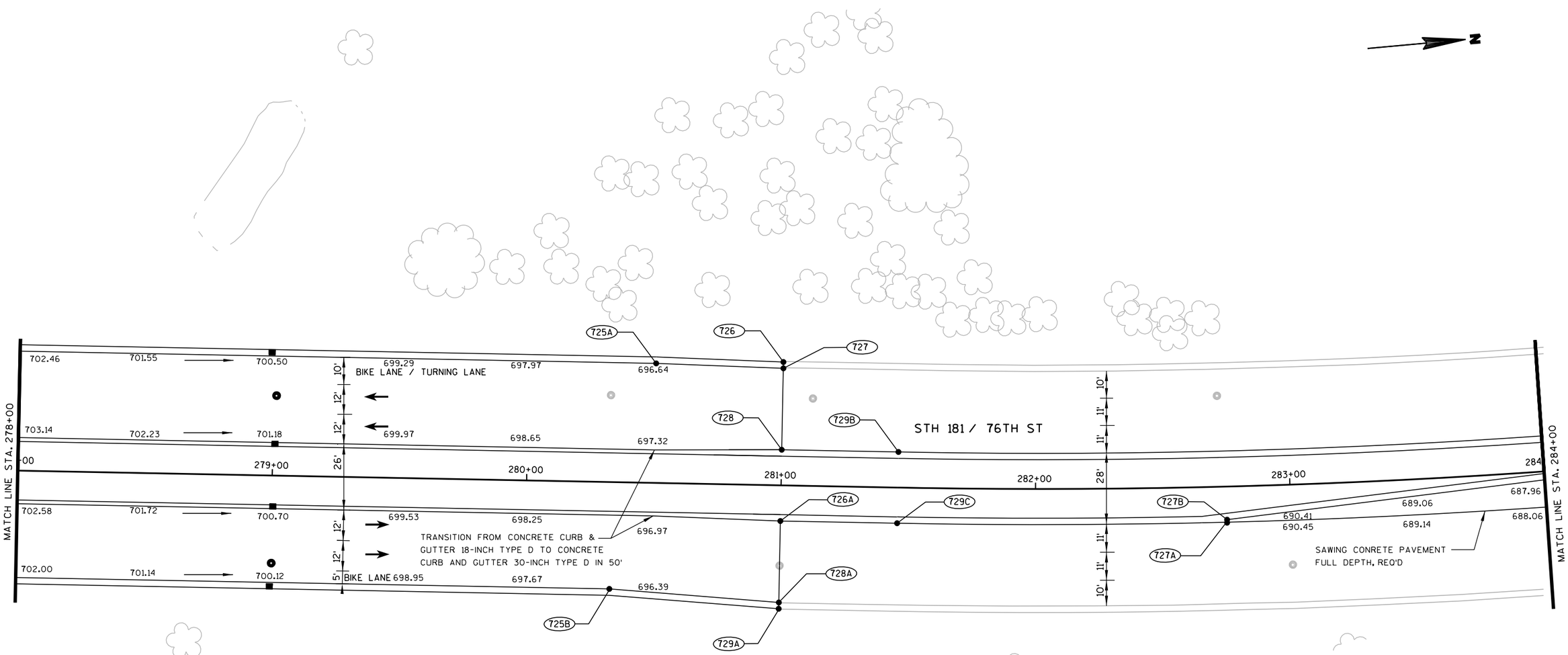
DATA TABLE

POINT #	NORTHING	EASTING	STATION	OFFSET	ELEVATION	REMARK
709	354446.48	580742.56	274+53.61	9.00		R = 4'
710	354446.05	580746.54	274+53.61	13.00	706.39	
711	354502.12	580663.51	275+00.07	-75.76	707.79	
712	354502.15	580670.24	275+00.86	-69.07	707.60	
713	354502.79	580730.27	275+08.23	-9.50		R = 3.5'
714	354500.15	580732.55	275+05.86	-6.93	706.63	
715	354503.19	580726.79	275+08.23	-13.00	706.80	
716	354435.86	580743.95	274+43.15	11.50		BOC
717	354527.15	580670.12	275+25.69	-72.00		R = 25'
718	354517.12	580786.21	275+28.74	44.50		BOC
719	354524.35	580694.96	275+25.69	-47.00	706.63	
720	354522.09	580786.77	275+33.74	44.50		BOC
721	354556.92	580683.54	275+56.77	-62.00		R = 75'
722	354520.91	580797.22	275+33.74	55.00		
723	354548.50	580758.07	275+56.77	13.00	705.60	
723A	354523.17	580730.55	275+28.52	-11.50		BOC
723B	354528.14	580731.11	275+33.52	-11.50		BOC
723C	354521.23	580747.80	275+28.52	5.85		BOC
723D	354525.99	580750.22	275+33.52	7.73		BOC
723E	354427.78	580776.29	274+38.36	44.50		BOC
723F	354432.76	580776.80	274+43.45	44.50		BOC

LEGEND

ASPH	ASPHALTIC SURFACE DRIVEWAYS AND FIELD ENTRANCES
BUS PAD	CONCRETE PAVEMENT 9-INCH (DOWELED)
CD-6	CONCRETE DRIVEWAY 6-INCH
CS-5	CONCRETE SIDEWALK 5-INCH
CS-6	CONCRETE SIDEWALK 6-INCH
	CURB RAMP, TYPE X
	TRAFFIC FLOW
	PROPOSED INLET
	PROPOSED STORM SEWER MANHOLE
	CURB RAMP DETECTABLE WARNING FIELD
	DRAINAGE FLOW ARROW

2



NOTES:

ALL POINTS & RADII ARE TO FLAG OF CURB, UNLESS OTHERWISE NOTED.

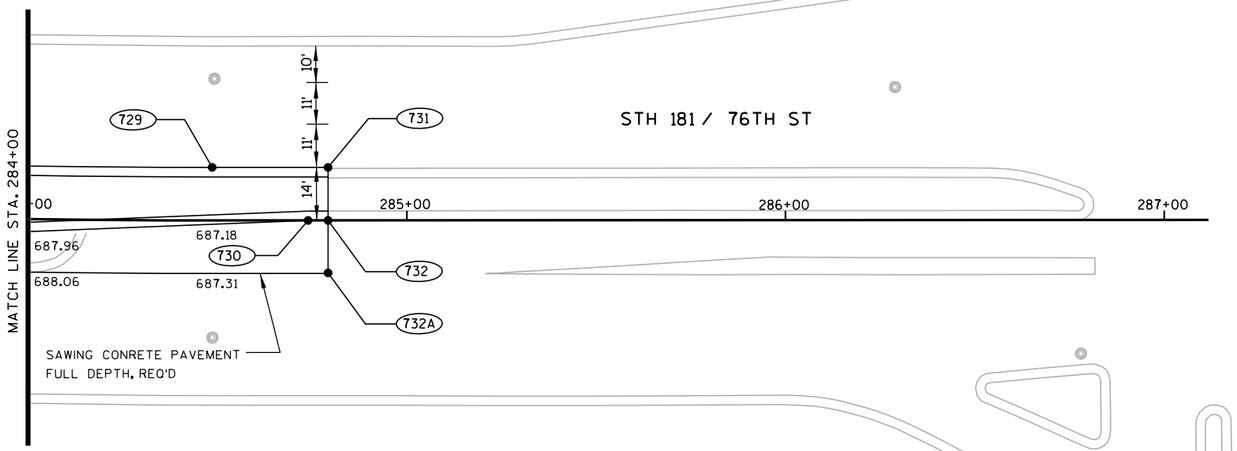
DATA TABLE

POINT #	NORTHING	EASTING	STATION	OFFSET	ELEVATION	REMARK
725A	355045.35	580753.77	280+50.00	-47.00	696.64	
725B	355018.81	580840.34	280+33.34	42.00	696.81	
726	355095.20	580757.89	281+00.00	-48.50		
726A	355088.19	580820.00	281+00.00	14.00	695.61	
727	355094.92	580760.38	281+00.00	-46.00	695.30	
727A	355262.94	580836.79	282+74.94	14.00	691.07	
727B	355263.00	580835.79	283+74.94	13.00	691.06	
728	355091.33	580792.18	281+00.00	-14.00	695.90	
728A	355084.60	580851.80	281+00.00	46.00	694.92	
729A	355084.32	580854.28	281+00.00	48.50		
729B	355136.90	580797.32	281+45.86	-14.00	694.55	
729C	355133.76	580825.14	281+45.86	14.00	694.37	

LEGEND

ASPH	ASPHALTIC SURFACE DRIVEWAYS AND FIELD ENTRANCES
BUS PAD	CONCRETE PAVEMENT 9-INCH (DOWELED)
CD-6	CONCRETE DRIVEWAY 6-INCH
CS-5	CONCRETE SIDEWALK 5-INCH
CS-6	CONCRETE SIDEWALK 6-INCH
	CURB RAMP, TYPE X
	TRAFFIC FLOW
	PROPOSED INLET
	PROPOSED STORM SEWER MANHOLE
	CURB RAMP DETECTABLE WARNING FIELD
	DRAINAGE FLOW ARROW

2



STH 181 / 76TH ST

W. COUNTY LINE RD.

N

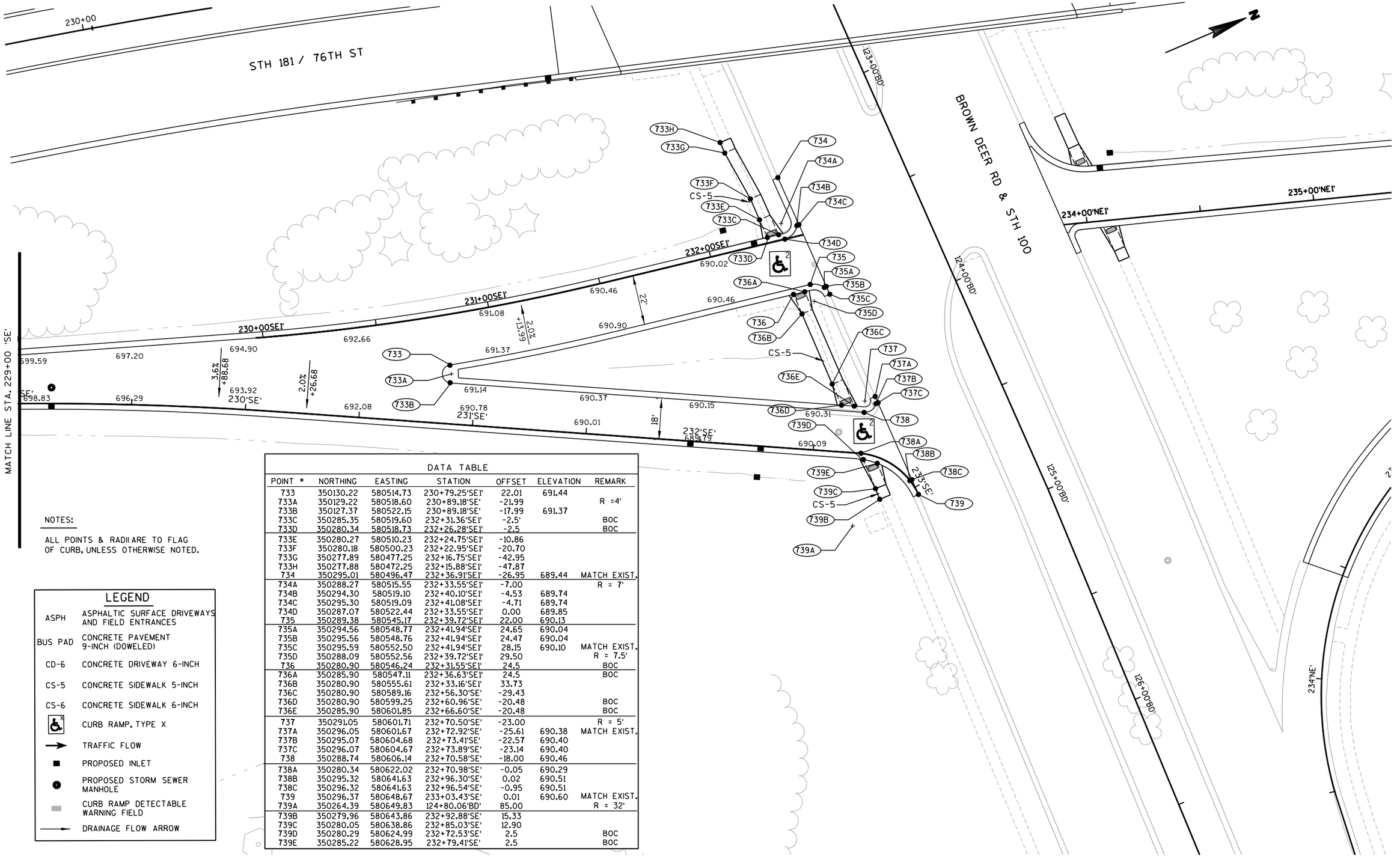
DATA TABLE						
POINT #	NORTHING	EASTING	STATION	OFFSET	ELEVATION	REMARK
729	355437.55	580815.25	284+48.66	-14.00	687.55	
730	355463.01	580829.42	284+74.21	0.00	686.95	
731	355468.10	580815.45	284+79.21	-14.00	687.05	
732	355468.01	580829.45	284+79.21	0.00	686.90	
732A	355467.91	580843.29	284+79.21	13.84	687.04	

NOTES:

ALL POINTS & RADII ARE TO FLAG OF CURB, UNLESS OTHERWISE NOTED.

LEGEND

ASPH	ASPHALTIC SURFACE DRIVEWAYS AND FIELD ENTRANCES
BUS PAD	CONCRETE PAVEMENT 9-INCH (DOWELED)
CD-6	CONCRETE DRIVEWAY 6-INCH
CS-5	CONCRETE SIDEWALK 5-INCH
CS-6	CONCRETE SIDEWALK 6-INCH
	CURB RAMP, TYPE X
	TRAFFIC FLOW
	PROPOSED INLET
	PROPOSED STORM SEWER MANHOLE
	CURB RAMP DETECTABLE WARNING FIELD
	DRAINAGE FLOW ARROW



NOTES:

ALL POINTS & RADII ARE TO FLAG OF CURB, UNLESS OTHERWISE NOTED.

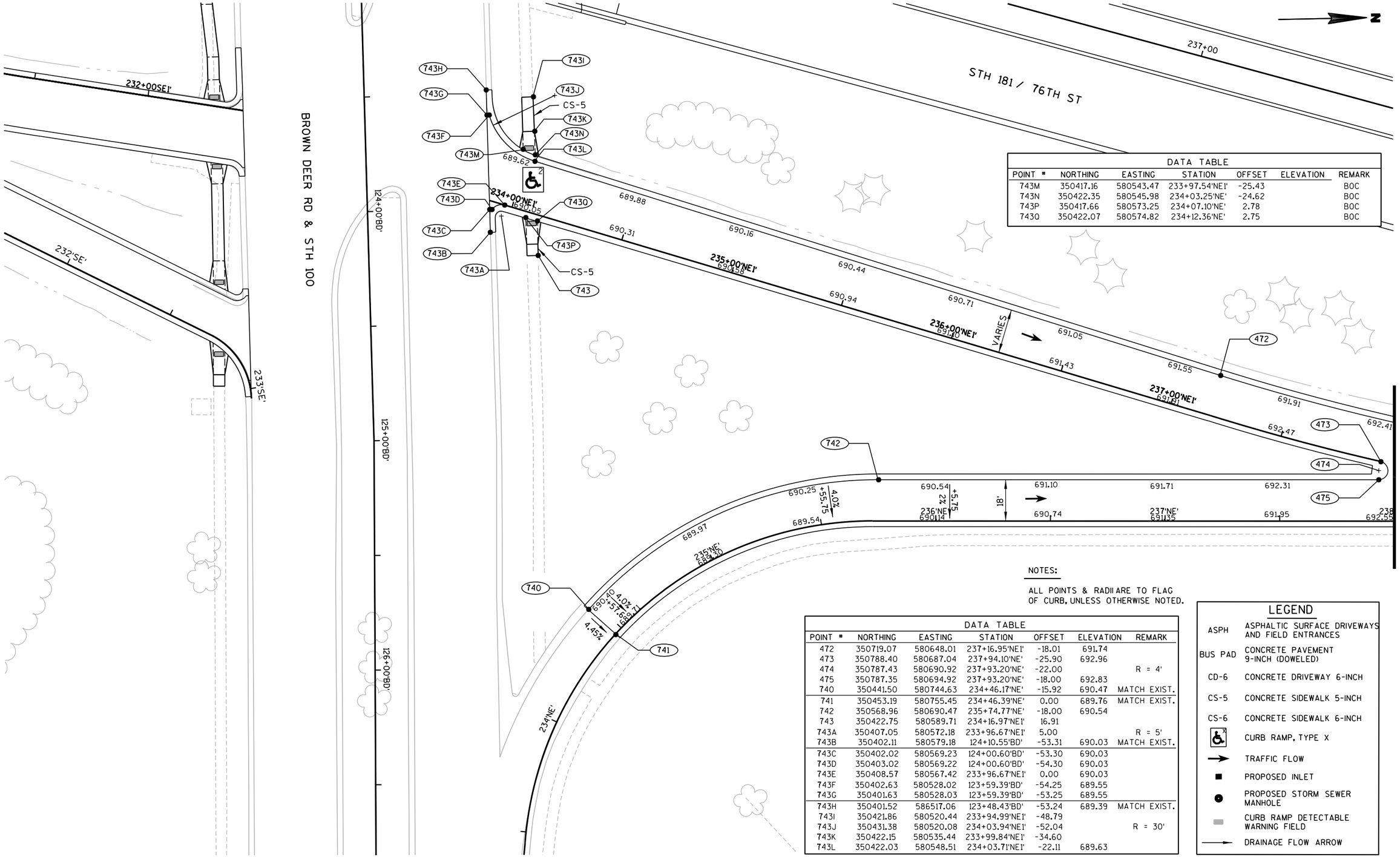
DATA TABLE

POINT #	NORTHING	EASTING	STATION	OFFSET	ELEVATION	REMARK
733	350130.22	580514.73	230+79.25'SE'	22.01	691.44	
733A	350129.22	580518.60	230+89.18'SE'	-21.99		R =4'
733B	350127.37	580522.15	230+89.18'SE'	-17.99	691.37	
733C	350285.35	580519.60	232+31.36'SE'	-2.5'		BOC
733D	350280.34	580518.73	232+26.28'SE'	-2.5		BOC
733E	350280.27	580510.23	232+24.75'SE'	-10.86		
733F	350280.18	580500.23	232+22.95'SE'	-20.70		
733G	350277.89	580477.25	232+16.75'SE'	-42.95		
733H	350277.88	580472.25	232+15.88'SE'	-47.87		
734	350295.01	580496.47	232+36.91'SE'	-26.95	689.44	MATCH EXIST.
734A	350288.27	580515.55	232+33.55'SE'	-7.00		R = 7'
734B	350294.30	580519.10	232+40.10'SE'	-4.53	689.74	
734C	350295.30	580519.09	232+41.08'SE'	-4.71	689.74	
734D	350287.07	580522.44	232+33.55'SE'	0.00	689.85	
735	350289.38	580545.17	232+39.72'SE'	22.00	690.13	
735A	350294.56	580548.77	232+41.94'SE'	24.65	690.04	
735B	350295.56	580548.76	232+41.94'SE'	24.47	690.04	
735C	350295.59	580552.50	232+41.94'SE'	28.15	690.10	MATCH EXIST.
735D	350288.09	580552.56	232+39.72'SE'	29.50		R = 7.5'
736	350280.90	580546.24	232+31.55'SE'	24.5		BOC
736A	350285.90	580547.11	232+36.63'SE'	24.5		BOC
736B	350280.90	580555.61	232+33.16'SE'	33.73		
736C	350280.90	580589.16	232+56.30'SE'	-29.43		
736D	350280.90	580599.25	232+60.96'SE'	-20.48		BOC
736E	350285.90	580601.85	232+66.60'SE'	-20.48		BOC
737	350291.05	580601.71	232+70.50'SE'	-23.00		R = 5'
737A	350296.05	580601.67	232+72.92'SE'	-25.61	690.38	MATCH EXIST.
737B	350295.07	580604.68	232+73.41'SE'	-22.57	690.40	
737C	350296.07	580604.67	232+73.89'SE'	-23.14	690.40	
738	350288.74	580606.14	232+70.58'SE'	-18.00	690.46	
738A	350280.34	580622.02	232+70.98'SE'	-0.05	690.29	
738B	350295.32	580641.63	232+96.30'SE'	0.02	690.51	
738C	350296.32	580641.63	232+96.54'SE'	-0.95	690.51	
739	350296.37	580648.67	233+03.43'SE'	0.01	690.60	MATCH EXIST.
739A	350264.39	580649.83	124+80.06'BD'	85.00		R = 32'
739B	350279.96	580643.86	232+92.88'SE'	15.33		
739C	350280.05	580638.86	232+85.03'SE'	12.90		
739D	350280.29	580624.99	232+72.53'SE'	2.5		BOC
739E	350285.22	580628.95	232+79.41'SE'	2.5		BOC

LEGEND

ASPH	ASPHALTIC SURFACE DRIVEWAYS AND FIELD ENTRANCES
BUS PAD	CONCRETE PAVEMENT 9-INCH (DOWELED)
CD-6	CONCRETE DRIVEWAY 6-INCH
CS-5	CONCRETE SIDEWALK 5-INCH
CS-6	CONCRETE SIDEWALK 6-INCH
	CURB RAMP, TYPE X
	TRAFFIC FLOW
	PROPOSED INLET
	PROPOSED STORM SEWER MANHOLE
	CURB RAMP DETECTABLE WARNING FIELD
	DRAINAGE FLOW ARROW

PROJECT NO: 2140-08-73	HWY: STH 181	COUNTY: MILWAUKEE	PLAN DETAILS	SHEET 67	E



DATA TABLE						
POINT #	NORTHING	EASTING	STATION	OFFSET	ELEVATION	REMARK
743M	350417.16	580543.47	233+97.54'NE1'	-25.43		BOC
743N	350422.35	580545.98	234+03.25'NE'	-24.62		BOC
743P	350417.66	580573.25	234+07.10'NE'	2.78		BOC
743Q	350422.07	580574.82	234+12.36'NE'	2.75		BOC

NOTES:

ALL POINTS & RADII ARE TO FLAG OF CURB, UNLESS OTHERWISE NOTED.

DATA TABLE						
POINT #	NORTHING	EASTING	STATION	OFFSET	ELEVATION	REMARK
472	350719.07	580648.01	237+16.95'NE1'	-18.01	691.74	
473	350788.40	580687.04	237+94.10'NE'	-25.90	692.96	
474	350787.43	580690.92	237+93.20'NE'	-22.00		R = 4'
475	350787.35	580694.92	237+93.20'NE'	-18.00	692.83	
740	350441.50	580744.63	234+46.17'NE'	-15.92	690.47	MATCH EXIST.
741	350453.19	580755.45	234+46.39'NE'	0.00	689.76	MATCH EXIST.
742	350568.96	580690.47	235+74.77'NE'	-18.00	690.54	
743	350422.75	580589.71	234+16.97'NE1'	16.91		
743A	350407.05	580572.18	233+96.67'NE1'	5.00		R = 5'
743B	350402.11	580579.18	124+10.55'BD'	-53.31	690.03	MATCH EXIST.
743C	350402.02	580569.23	124+00.60'BD'	-53.30	690.03	
743D	350403.02	580569.22	124+00.60'BD'	-54.30	690.03	
743E	350408.57	580567.42	233+96.67'NE1'	0.00	690.03	
743F	350402.63	580528.02	123+59.39'BD'	-54.25	689.55	
743G	350401.63	580528.03	123+59.39'BD'	-53.25	689.55	
743H	350401.52	586517.06	123+48.43'BD'	-53.24	689.39	MATCH EXIST.
743I	350421.86	580520.44	233+94.99'NE1'	-48.79		
743J	350431.38	580520.08	234+03.94'NE1'	-52.04		R = 30'
743K	350422.15	580535.44	233+99.84'NE1'	-34.60		
743L	350422.03	580548.51	234+03.71'NE1'	-22.11	689.63	

LEGEND

ASPH	ASPHALTIC SURFACE DRIVEWAYS AND FIELD ENTRANCES
BUS PAD	CONCRETE PAVEMENT 9-INCH (DOWELED)
CD-6	CONCRETE DRIVEWAY 6-INCH
CS-5	CONCRETE SIDEWALK 5-INCH
CS-6	CONCRETE SIDEWALK 6-INCH
	CURB RAMP, TYPE X
	TRAFFIC FLOW
	PROPOSED INLET
	PROPOSED STORM SEWER MANHOLE
	CURB RAMP DETECTABLE WARNING FIELD
	DRAINAGE FLOW ARROW

PROJECT NO: 2140-08-73	HWY: STH 181	COUNTY: MILWAUKEE	PLAN DETAILS	SHEET 68	E

LEGEND

ASPH	ASPHALTIC SURFACE DRIVEWAYS AND FIELD ENTRANCES
BUS PAD	CONCRETE PAVEMENT 9-INCH (DOWELED)
CD-6	CONCRETE DRIVEWAY 6-INCH
CS-5	CONCRETE SIDEWALK 5-INCH
CS-6	CONCRETE SIDEWALK 6-INCH
	CURB RAMP, TYPE X
	TRAFFIC FLOW
	PROPOSED INLET
	PROPOSED STORM SEWER MANHOLE
	CURB RAMP DETECTABLE WARNING FIELD
	DRAINAGE FLOW ARROW

DATA TABLE

POINT #	NORTHING	EASTING	STATION	OFFSET	ELEVATION	REMARK
744	350251.27	580208.46	232+33.14'SW1'	21.61	690.71	
744A	350262.96	580239.56	232+46.75'SW1'	51.93		R = 30'
744B	350276.21	580234.57	120+64.91'BD'	69.72		
744C	350293.01	580243.78	120+74.25'BD'	53.00	689.89	MATCH EXIST.
744D	350292.87	580231.53	120+62.00'BD'	53.03	690.01	
744E	350291.87	580231.54	120+62.01'BD'	54.03	690.03	
744F	350292.35	580185.43	120+15.91'BD'	53.18	690.27	
744G	350291.35	580185.45	120+15.91'BD'	-54.18	690.29	
744H	350292.31	580182.52	120+12.99'BD'	53.19	690.25	MATCH EXIST.
744I	350285.31	580181.91	232+65.47'SW1'	-7.00		R = 7'
744J	350275.12	580172.24	120+02.57'BD'	70.29		
744K	350284.88	580188.89	232+65.47'SW1'	0.00	690.44	
745	350095.97	580173.19	230+76.69'SW'	22.00		R = 4'
745A	350095.65	580169.21	230+76.69'SW'	18.00	695.49	
745B	350074.57	580151.95	230+57.09'SW'	0.00	695.69	
745C	350077.38	579949.97	230+57.09'SW'	-202.00		R = 202'
745D	350239.59	580049.86	232+65.71'SW'	-11.50		
745E	350252.40	580024.80	232+95.58'SW'	-11.65		
746	350095.72	580177.19	230+76.31'SW1'	0.00	695.64	
747	350263.05	580029.55	232+95.41'SW'	0.00	690.34	MATCH EXIST.
748	350279.73	580036.98	232+95.17'SW'	18.26	690.87	MATCH EXIST.
748A	350279.99	580067.70	232+70.87'SW'	32.33		
748B	350280.02	580075.56	232+65.12'SW'	36.40		

DATA TABLE

POINT #	NORTHING	EASTING	STATION	OFFSET	ELEVATION	REMARK
748C	350276.09	580215.39	232+58.35'SW1'	27.00		BOC
748D	350280.94	580218.75	232+63.40'SW1'	30.04		BOC
748E	350276.21	580234.57	232+55.54'SW1'	-2.50		BOC
748F	350280.25	580186.10	232+60.68'SW1'	-2.50		BOC
748G	350267.47	580066.07	232+66.45'SW'	20.74		BOC
748H	350269.98	580061.87	232+70.88'SW'	20.74		BOC
748J	350247.32	580054.47	232+65.64'SW'	-2.50		BOC
748K	350249.89	580050.18	232+70.90'SW'	-2.50		BOC

NOTES:

ALL POINTS & RADII ARE TO FLAG OF CURB, UNLESS OTHERWISE NOTED.

MATCH LINE STA. 229+00 'SW'

229+00

STH 181 / 76TH ST

230+00

230'SW'

231'SW'

232'SW'

232+00'SW1'

231+00'SW1'

234'NW'

234+00'NW1'

BROWN DEER RD & STH 100

118+00'BD'

119+00'BD'

120+00'BD'

121+00'BD'

N

DATA TABLE						
POINT #	NORTHING	EASTING	STATION	OFFSET	ELEVATION	REMARK
749	350397.89	580107.11	232+69.00'NW'	0.00	690.51	MATCH EXIST.
749A	350398.96	580114.31	232+76.29'NW'	0.00	690.51	
749B	350397.96	580114.32	232+76.05'NW'	0.97	690.51	
749C	350429.87	580106.04	232+97.72'NW'	-32.00		R = 32'
750	350419.45	580114.97	232+90.60'NW'	-18.28		
750A	350419.45	580121.97	232+98.87'NW'	-13.00		
750B	350410.70	580131.66	232+97.64'NW'	0.00	690.29	
750C	350404.71	580149.65	233+03.57'NW'	18.00	690.28	
751	350399.30	580150.24	232+99.58'NW'	21.71	690.32	
751A	350398.30	580150.25	232+98.78'NW'	22.31	690.32	
751B	350398.33	580152.87	233+00.37'NW'	24.40	690.31	MATCH EXIST.
751C	350402.33	580152.86	233+03.57'NW'	22.00		R = 4'
752	350418.95	580173.30	233+29.12'NW'	28.48		
752A	350419.15	580197.31	233+52.83'NW1'	-35.32		
752B	350404.86	580201.49	120+32.90'BD'	-59.20		R = 6'
752C	350398.80	580199.62	120+30.98'BD'	-53.15	690.07	MATCH EXIST.
753	350399.89	580204.85	120+36.22'BD'	-54.20	690.07	
753A	350398.89	580204.86	120+36.22'BD'	-53.20	690.07	
753B	350403.54	580207.35	120+38.74'BD'	-57.83	690.00	
753C	350407.79	580230.91	233+49.61'NW1'	0.00	689.75	
754	350399.15	580234.18	233+41.91'NW1'	5.14	689.88	
754A	350400.15	580234.17	233+42.89'NW1'	4.91	689.88	
754B	350406.18	580237.72	233+49.61'NW1'	7.00		R = 7'
754C	350399.30	580251.92	233+46.10'NW1'	22.39	689.62	MATCH EXIST.
755	350419.64	580257.98	233+67.79'NW1'	23.46		
755A	350419.54	580245.62	233+64.60'NW1'	11.51		
755B	350509.59	580237.42	234+48.19'NW1'	-22.01	689.66	
756	350510.89	580233.64	234+38.89'NW1'	22.00		R = 4'
756A	350513.28	580230.43	234+38.89'NW'	18.00	689.76	
756B	350650.97	580323.01	236+10.38'NW1'	0.00	691.95	

NOTES:

ALL POINTS & RADII ARE TO FLAG OF CURB, UNLESS OTHERWISE NOTED.

LEGEND

ASPH	ASPHALTIC SURFACE DRIVEWAYS AND FIELD ENTRANCES
BUS PAD	CONCRETE PAVEMENT 9-INCH (DOWELED)
CD-6	CONCRETE DRIVEWAY 6-INCH
CS-5	CONCRETE SIDEWALK 5-INCH
CS-6	CONCRETE SIDEWALK 6-INCH
	CURB RAMP, TYPE X
	TRAFFIC FLOW
	PROPOSED INLET
	PROPOSED STORM SEWER MANHOLE
	CURB RAMP DETECTABLE WARNING FIELD
	DRAINAGE FLOW ARROW

BROWN DEER RD & STH 100

118+00'BD'

119+00'BD'

120+00'BD'

121+00'BD'

232+00'SW'

233'SW'

232'SW'

749 749A 749B 749C 750 750A 750B 750C 751 751A 751B 751C 752 752A 752B 752C 753 753A 753B 753C 754 754A 754B 754C 755 755A 755B 756 756A 756B 756C 756D 756E 756F 756G 756H 756J 756K

CS-5

234'NW'

235'NW'

236'NW'

234+00'NW1'

235+00'NW1'

236+00'NW1'

689.56 689.89 689.57 689.74 689.59 689.15 689.74 689.21 689.53 690.15 690.77 691.39 691.45 691.95 689.51 690.80

18' 22'

2.0% +76.16

3.10% +97.16

3.1% +99.32

2.0% +20.32

692.01 692.37 692.63 692.99

MATCH LINE STA. 237+00 'NW'

STH 181 / 76TH ST

DATA TABLE						
POINT #	NORTHING	EASTING	STATION	OFFSET	ELEVATION	REMARK
756C	350414.06	580131.04	232+99.96'NW'	-2.50		BOC
756D	350418.65	580134.46	233+05.68'NW'	-2.50		BOC
756E	350414.27	580159.87	233+17.34'NW'	20.50		BOC
756F	350418.88	580163.30	233+23.09'NW'	20.50		BOC
756G	350414.61	580207.35	233+50.81'NW1'	-24.50		BOC
756H	350419.24	580208.46	233+55.45'NW1'	-24.50		BOC
756J	350414.82	580235.17	233+57.45'NW1'	2.50		BOC
756K	350419.47	580236.31	233+62.25'NW1'	2.50		BOC

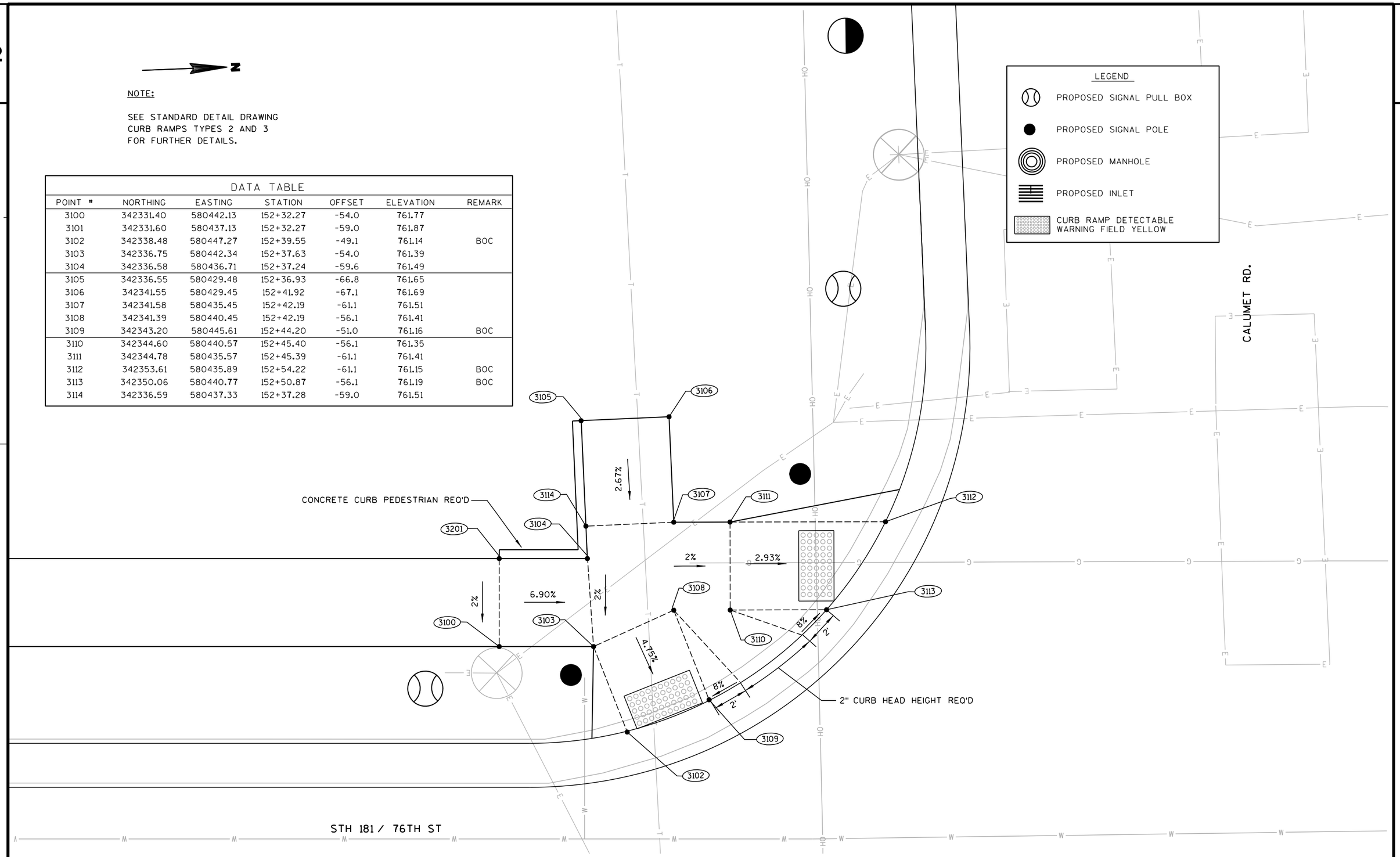
N

NOTE:

SEE STANDARD DETAIL DRAWING
CURB RAMPS TYPES 2 AND 3
FOR FURTHER DETAILS.

DATA TABLE

POINT #	NORTHING	EASTING	STATION	OFFSET	ELEVATION	REMARK
3100	342331.40	580442.13	152+32.27	-54.0	761.77	
3101	342331.60	580437.13	152+32.27	-59.0	761.87	
3102	342338.48	580447.27	152+39.55	-49.1	761.14	BOC
3103	342336.75	580442.34	152+37.63	-54.0	761.39	
3104	342336.58	580436.71	152+37.24	-59.6	761.49	
3105	342336.55	580429.48	152+36.93	-66.8	761.65	
3106	342341.55	580429.45	152+41.92	-67.1	761.69	
3107	342341.58	580435.45	152+42.19	-61.1	761.51	
3108	342341.39	580440.45	152+42.19	-56.1	761.41	
3109	342343.20	580445.61	152+44.20	-51.0	761.16	BOC
3110	342344.60	580440.57	152+45.40	-56.1	761.35	
3111	342344.78	580435.57	152+45.39	-61.1	761.41	
3112	342353.61	580435.89	152+54.22	-61.1	761.15	BOC
3113	342350.06	580440.77	152+50.87	-56.1	761.19	BOC
3114	342336.59	580437.33	152+37.28	-59.0	761.51	



2

CALUMET RD.

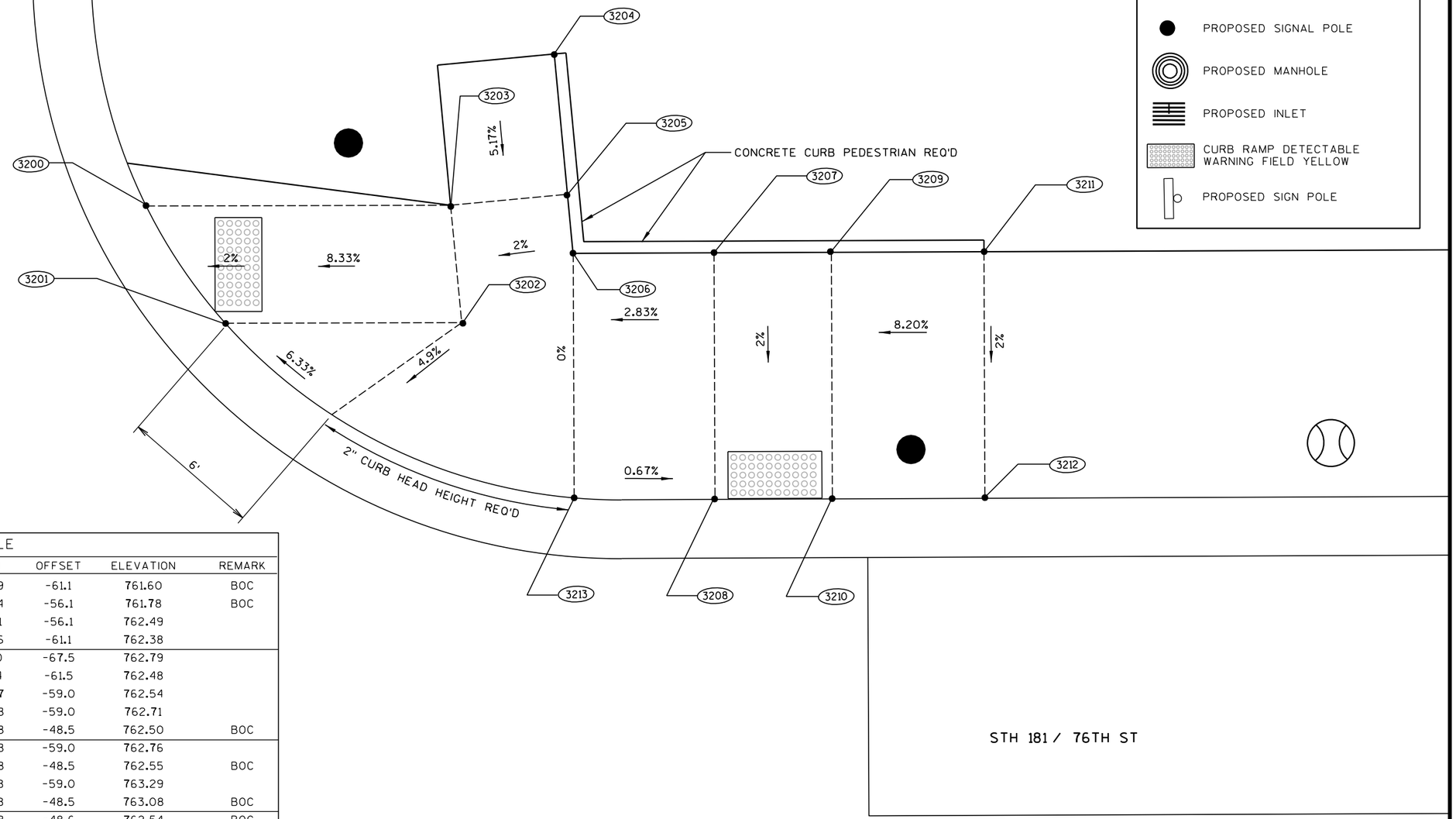
N

NOTE:

SEE STANDARD DETAIL DRAWING
CURB RAMPS TYPES 2 AND 3
FOR FURTHER DETAILS.

LEGEND

- PROPOSED SIGNAL PULL BOX
- PROPOSED SIGNAL POLE
- PROPOSED MANHOLE
- PROPOSED INLET
- CURB RAMP DETECTABLE WARNING FIELD YELLOW
- PROPOSED SIGN POLE

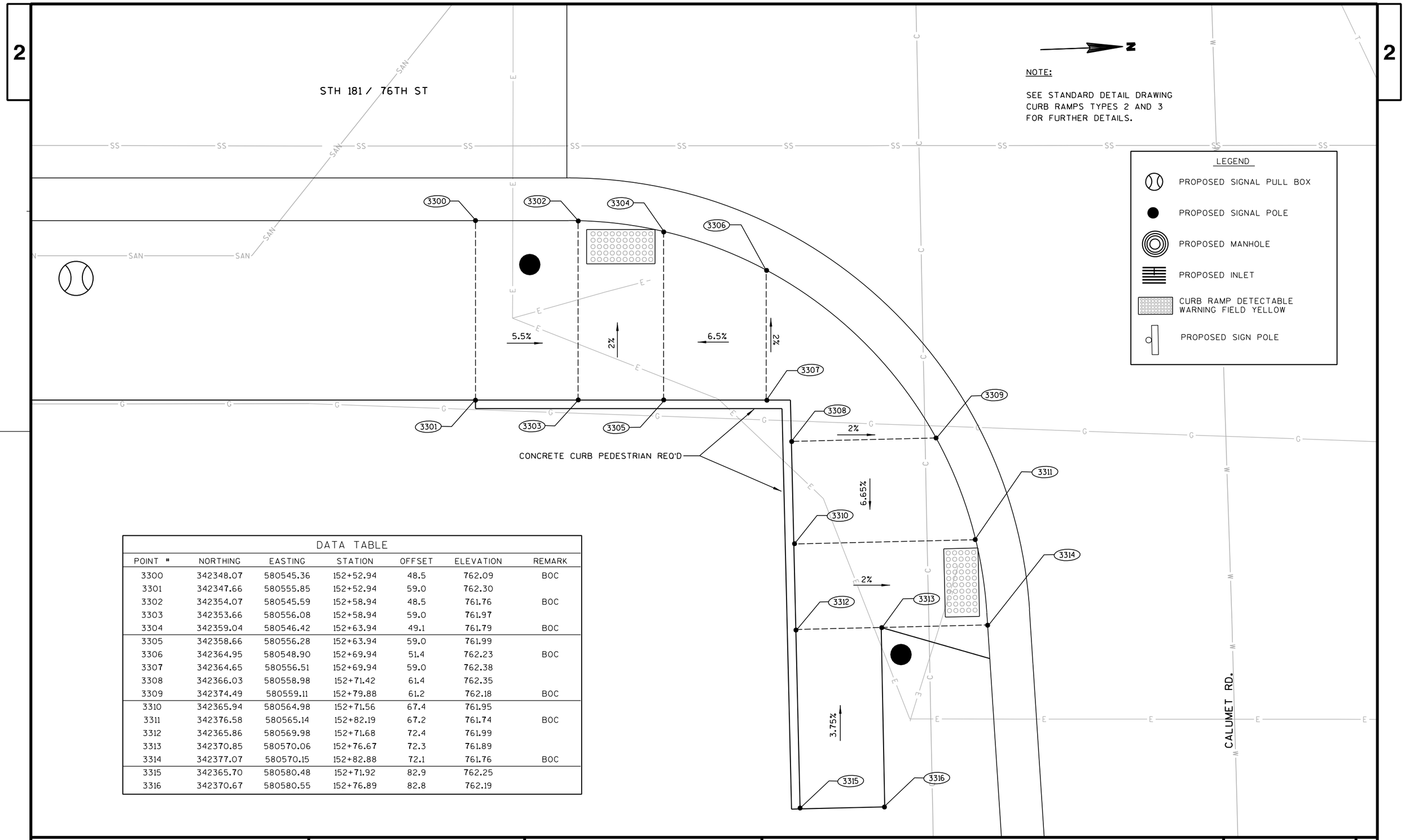


DATA TABLE

POINT #	NORTHING	EASTING	STATION	OFFSET	ELEVATION	REMARK
3200	342422.98	580438.43	153+23.89	-61.1	761.60	BOC
3201	342426.15	580443.55	153+27.24	-56.1	761.78	BOC
3202	342436.22	580443.92	153+37.31	-56.1	762.49	
3203	342435.94	580438.90	153+36.86	-61.1	762.38	
3204	342440.61	580432.64	153+41.30	-67.5	762.79	
3205	342440.94	580438.63	153+41.84	-61.5	762.48	
3206	342441.08	580441.15	153+42.07	-59.0	762.54	
3207	342447.08	580441.36	153+48.08	-59.0	762.71	
3208	342446.72	580451.86	153+48.08	-48.5	762.50	BOC
3209	342452.08	580441.54	153+53.08	-59.0	762.76	
3210	342451.71	580452.03	153+53.08	-48.5	762.55	BOC
3211	342458.57	580441.76	153+59.58	-59.0	763.29	
3212	342458.21	580452.26	153+59.58	-48.5	763.08	BOC
3213	342440.72	580451.56	153+42.08	-48.6	762.54	BOC

PROJECT NO: 2140-08-73	HWY: STH 181	COUNTY: MILWAUKEE	CURB RAMP DETAILS - CALUMET RD. NW	SHEET	E

FILE NAME : s:\@SAI\051--100\089\099\Micros\DESIGN\0873\021232_pd.dgn PLOT DATE : 7/30/2007 PLOT BY : $$...plotuser...$$ PLOT NAME : PLOT SCALE : $$.....plotscale.....$$ WISDOT/CADDS SHEET 42



DATA TABLE						
POINT #	NORTHING	EASTING	STATION	OFFSET	ELEVATION	REMARK
3300	342348.07	580545.36	152+52.94	48.5	762.09	BOC
3301	342347.66	580555.85	152+52.94	59.0	762.30	
3302	342354.07	580545.59	152+58.94	48.5	761.76	BOC
3303	342353.66	580556.08	152+58.94	59.0	761.97	
3304	342359.04	580546.42	152+63.94	49.1	761.79	BOC
3305	342358.66	580556.28	152+63.94	59.0	761.99	
3306	342364.95	580548.90	152+69.94	51.4	762.23	BOC
3307	342364.65	580556.51	152+69.94	59.0	762.38	
3308	342366.03	580558.98	152+71.42	61.4	762.35	
3309	342374.49	580559.11	152+79.88	61.2	762.18	BOC
3310	342365.94	580564.98	152+71.56	67.4	761.95	
3311	342376.58	580565.14	152+82.19	67.2	761.74	BOC
3312	342365.86	580569.98	152+71.68	72.4	761.99	
3313	342370.85	580570.06	152+76.67	72.3	761.89	
3314	342377.07	580570.15	152+82.88	72.1	761.76	BOC
3315	342365.70	580580.48	152+71.92	82.9	762.25	
3316	342370.67	580580.55	152+76.89	82.8	762.19	

PROJECT NO: 2140-08-73	HWY: STH 181	COUNTY: MILWAUKEE	CURB RAMP DETAILS - CALUMET RD. SE	SHEET 73	E

2

2

STH 181 / 76TH ST

NOTE:

SEE STANDARD DETAIL DRAWING
CURB RAMPS TYPES 2 AND 3
FOR FURTHER DETAILS.

LEGEND

- PROPOSED SIGNAL PULL BOX
- PROPOSED SIGNAL POLE
- PROPOSED MANHOLE
- PROPOSED INLET
- CURB RAMP DETECTABLE WARNING FIELD YELLOW
- PROPOSED SIGN POLE

2" CURB HEAD HEIGHT REQ'D

CONCRETE CURB PEDESTRIAN REQ'D

CALUMET RD.

3400 3401 3402 3403 3404 3405 3406 3407 3408 3409 3410 3411 3412 3413 3414 3415 3416

0.50% 2% 2% 8.11% 2% 8.2% 1.57% 8.33% 2% 2.13%

DATA TABLE

POINT #	NORTHING	EASTING	STATION	OFFSET	ELEVATION	REMARK
3400	342446.45	580549.59	153+51.21	49.2	762.56	BOC
3401	342446.28	580554.40	153+51.21	54.0	762.66	
3402	342455.10	580559.71	153+60.21	59.0	763.49	
3403	342446.11	580559.39	153+51.21	59.0	762.76	
3404	342441.39	580551.22	153+46.21	51.0	762.46	BOC
3405	342441.11	580559.22	153+46.21	59.0	762.62	
3406	342438.33	580552.86	153+43.21	52.7	762.55	BOC
3407	342438.11	580559.37	153+43.21	59.3	762.56	
3408	342429.49	580562.63	153+34.71	62.8	762.26	BOC
3409	342435.21	580562.72	153+40.43	62.7	762.17	
3410	342428.15	580565.88	153+33.48	66.1	761.75	BOC
3411	342435.34	580565.99	153+40.68	66.0	761.90	
3412	342427.05	580570.86	153+32.57	71.1	761.95	BOC
3413	342430.52	580570.92	153+36.03	71.1	762.02	
3414	342435.54	580570.99	153+41.05	71.0	762.12	
3415	342430.84	580579.18	153+36.64	79.3	762.08	
3416	342435.87	580578.99	153+41.65	78.9	762.29	

PROJECT NO:2140-08-73	HWY: STH 181	COUNTY: MILWAUKEE	CURB RAMP DETAIL - CALUMET RD. NE	SHEET	E

FILE NAME : s:\@SAI\051--100\089\099\Micros\DESIGN\0873\021234_pd.dgn PLOT DATE : 7/30/2007 PLOT BY : $$...plotuser...$$ PLOT NAME : PLOT SCALE : $$.....plotscale.....$$ WISDOT/CADDS SHEET 42

2

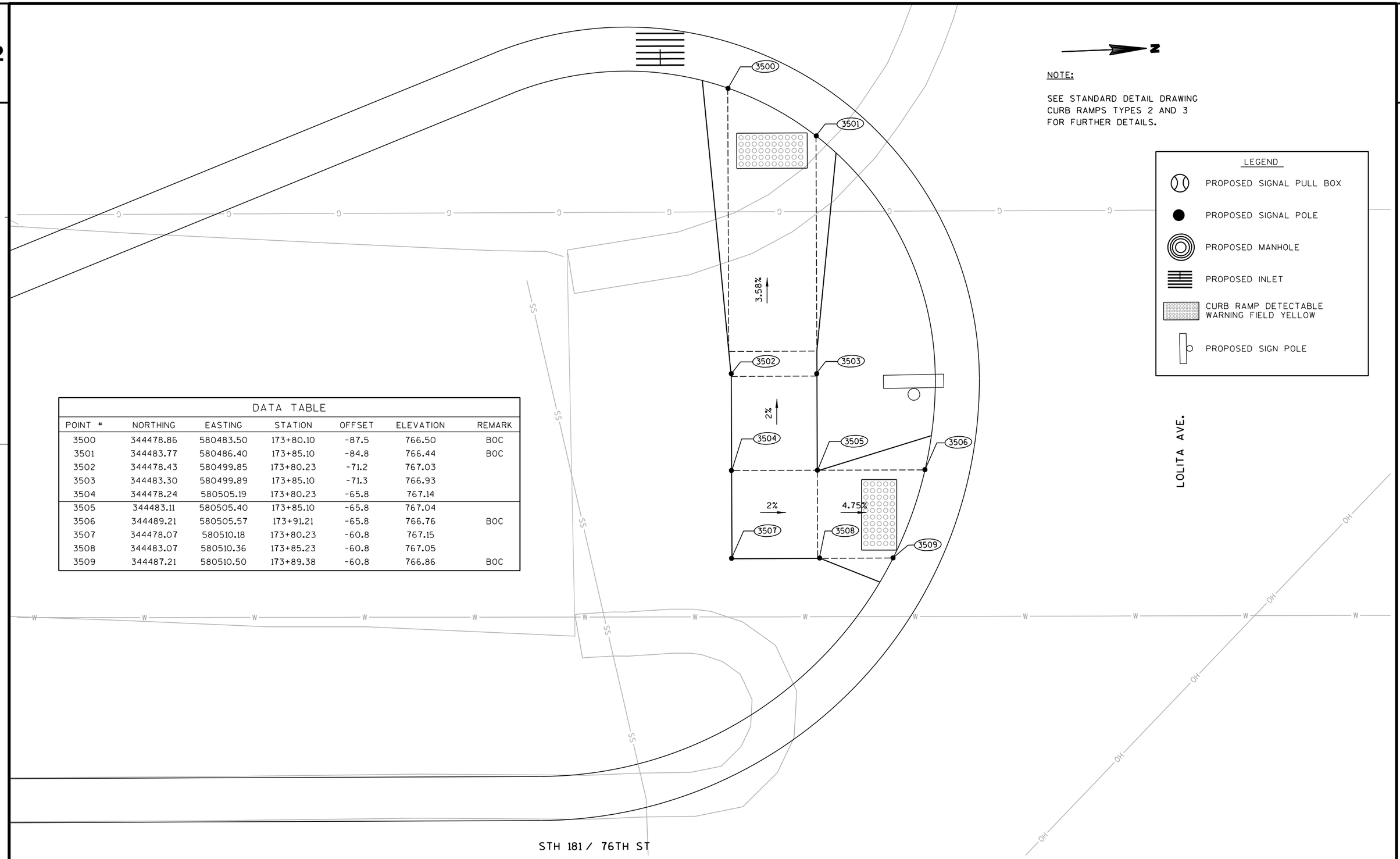
N

NOTE:

SEE STANDARD DETAIL DRAWING
CURB RAMPS TYPES 2 AND 3
FOR FURTHER DETAILS.

LEGEND

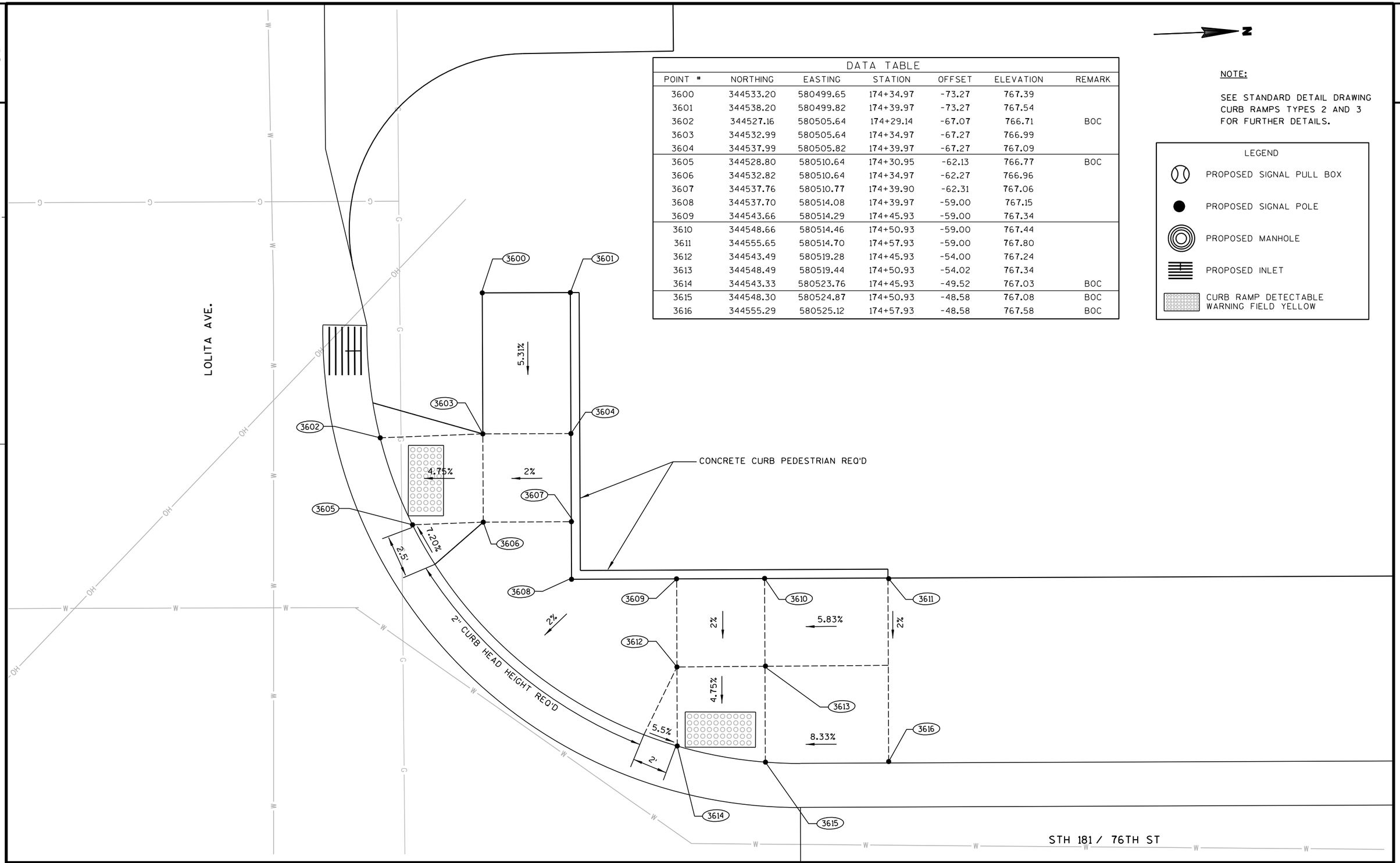
- PROPOSED SIGNAL PULL BOX
- PROPOSED SIGNAL POLE
- PROPOSED MANHOLE
- PROPOSED INLET
- CURB RAMP DETECTABLE WARNING FIELD YELLOW
- PROPOSED SIGN POLE



DATA TABLE

POINT #	NORTHING	EASTING	STATION	OFFSET	ELEVATION	REMARK
3500	344478.86	580483.50	173+80.10	-87.5	766.50	BOC
3501	344483.77	580486.40	173+85.10	-84.8	766.44	BOC
3502	344478.43	580499.85	173+80.23	-71.2	767.03	
3503	344483.30	580499.89	173+85.10	-71.3	766.93	
3504	344478.24	580505.19	173+80.23	-65.8	767.14	
3505	344483.11	580505.40	173+85.10	-65.8	767.04	
3506	344489.21	580505.57	173+91.21	-65.8	766.76	BOC
3507	344478.07	580510.18	173+80.23	-60.8	767.15	
3508	344483.07	580510.36	173+85.23	-60.8	767.05	
3509	344487.21	580510.50	173+89.38	-60.8	766.86	BOC

PROJECT NO:2140-08-73	HWY: STH 181	COUNTY:MILWAUKEE	CURB RAMP DETAILS - LOLITA AVE. SW	SHEET 75	E



DATA TABLE						
POINT #	NORTHING	EASTING	STATION	OFFSET	ELEVATION	REMARK
3600	344533.20	580499.65	174+34.97	-73.27	767.39	
3601	344538.20	580499.82	174+39.97	-73.27	767.54	
3602	344527.16	580505.64	174+29.14	-67.07	766.71	BOC
3603	344532.99	580505.64	174+34.97	-67.27	766.99	
3604	344537.99	580505.82	174+39.97	-67.27	767.09	
3605	344528.80	580510.64	174+30.95	-62.13	766.77	BOC
3606	344532.82	580510.64	174+34.97	-62.27	766.96	
3607	344537.76	580510.77	174+39.90	-62.31	767.06	
3608	344537.70	580514.08	174+39.97	-59.00	767.15	
3609	344543.66	580514.29	174+45.93	-59.00	767.34	
3610	344548.66	580514.46	174+50.93	-59.00	767.44	
3611	344555.65	580514.70	174+57.93	-59.00	767.80	
3612	344543.49	580519.28	174+45.93	-54.00	767.24	
3613	344548.49	580519.44	174+50.93	-54.02	767.34	
3614	344543.33	580523.76	174+45.93	-49.52	767.03	BOC
3615	344548.30	580524.87	174+50.93	-48.58	767.08	BOC
3616	344555.29	580525.12	174+57.93	-48.58	767.58	BOC

N

NOTE:

SEE STANDARD DETAIL DRAWING CURB RAMPS TYPES 2 AND 3 FOR FURTHER DETAILS.

LEGEND

- PROPOSED SIGNAL PULL BOX
- PROPOSED SIGNAL POLE
- PROPOSED MANHOLE
- PROPOSED INLET
- CURB RAMP DETECTABLE WARNING FIELD YELLOW

PROJECT NO: 2140-08-73	HWY: STH 181	COUNTY: MILWAUKEE	CURB RAMP DETAILS - LOLITA AVE. NW	SHEET	E

FILE NAME : s:\@sai\051--100\089\099\micros\design\0873\021236_pd.dgn PLOT DATE : 7/30/2007 PLOT BY : $$...plotuser...$$ PLOT NAME : PLOT SCALE : $$.....plotscale.....$$ WISDOT/CADDS SHEET 42

DATA TABLE						
POINT #	NORTHING	EASTING	STATION	OFFSET	ELEVATION	REMARK
3700	344990.52	580518.48	178+92.66	-70.3	763.28	BOC
3701	344990.53	580520.38	178+92.74	-68.4	763.30	BOC
3702	344989.76	580527.38	178+92.21	-61.4	763.03	BOC
3703	344981.53	580537.51	178+84.34	-51.0	763.52	BOC
3704	344976.46	580539.37	178+79.34	-49.0	763.63	BOC
3705	344976.64	580534.34	178+79.34	-54.0	763.73	
3706	344981.63	580534.51	178+84.34	-54.0	763.58	
3707	344980.08	580529.46	178+82.61	-59.0	763.62	
3708	344985.07	580527.35	178+87.52	-61.3	763.36	
3709	344980.07	580527.15	178+82.52	-61.3	763.46	
3710	344985.04	580522.35	178+87.32	-66.3	763.29	
3711	344985.01	580516.15	178+87.07	-72.5	763.49	
3712	344980.01	580516.18	178+82.08	-72.3	763.59	
3713	344980.04	580522.32	178+82.33	-66.1	763.39	
3714	344976.81	580529.34	178+79.34	-59.0	763.73	
3715	344964.82	580528.93	178+67.34	-59.0	764.57	
3716	344964.64	580533.92	178+67.34	-54.0	764.47	
3717	344990.54	580522.38	178+92.82	-66.4	763.03	BOC

N

NOTE:

SEE STANDARD DETAIL DRAWING CURB RAMPS TYPES 2 AND 3 FOR FURTHER DETAILS.

BRADLEY RD.

3711 3712 3713 3714 3715 3716 3717 3700 3701 3702 3703 3704 3705 3706 3707 3708 3709 3710

4" CURB HEAD HEIGHT

3.33%

2%

4.75%

8.33%

3'

CONCRETE CURB PEDESTRIAN REQ'D

7.5%

2%

3%

2'

2" CURB HEAD HEIGHT REQ'D

LEGEND

- PROPOSED SIGNAL PULL BOX
- PROPOSED SIGNAL POLE
- PROPOSED MANHOLE
- PROPOSED INLET
- CURB RAMP DETECTABLE WARNING FIELD YELLOW
- PROPOSED SIGN POLE

STH 181 / 76TH ST

PROJECT NO: 2140-08-73	HWY: STH 181	COUNTY: MILWAUKEE	CURB RAMP DETAILS - BRADLEY RD. SW	SHEET 77	E

DATA TABLE						
POINT #	NORTHING	EASTING	STATION	OFFSET	ELEVATION	REMARK
3800	345082.95	580516.89	179+86.46	-74.3	763.52	
3801	345087.93	580516.86	179+91.44	-74.4	763.62	
3802	345078.05	580522.86	179+81.66	-68.2	762.97	BOC
3803	345083.00	580522.89	179+86.60	-68.3	763.10	
3804	345087.97	580522.86	179+91.57	-68.4	763.20	
3805	345078.30	580527.86	179+81.97	-63.2	762.89	BOC
3806	345083.04	580527.89	179+86.72	-63.3	763.12	
3807	345087.98	580527.61	179+91.66	-63.6	763.22	
3808	345088.03	580532.18	179+91.77	-59.0	763.42	
3809	345092.57	580532.24	179+96.31	-59.0	763.56	
3810	345098.57	580532.33	180+02.31	-59.0	763.58	
3811	345106.44	580532.49	180+10.18	-59.0	763.73	
3812	345092.49	580537.19	179+96.31	-54.1	763.46	
3813	345098.50	580537.17	180+02.31	-54.2	763.48	
3814	345106.36	580537.49	180+10.18	-54.0	763.63	
3815	345087.44	580540.73	179+91.31	-50.5	763.15	BOC
3816	345092.42	580542.39	179+96.31	-48.9	763.21	BOC
3817	345098.42	580542.48	180+02.31	-48.9	763.37	BOC

N

NOTE:

SEE STANDARD DETAIL DRAWING
CURB RAMPS TYPES 2 AND 3
FOR FURTHER DETAILS.

LEGEND

- PROPOSED SIGNAL PULL BOX
- PROPOSED SIGNAL POLE
- PROPOSED MANHOLE
- PROPOSED INLET
- CURB RAMP DETECTABLE WARNING FIELD YELLOW

BRADLEY RD.

3801 3800 3802 3803 3804 3805 3806 3807 3808 3809 3810 3811 3812 3813 3814 3815 3816 3817

7%
2%
4.75%
7.20%
3'
2% CURB HEAD HEIGHT REQ'D
2%
2%
0.10%
2%
5%
4.75%
2'
2.67%

CONCRETE CURB PEDESTRIAN REQ'D

STH 181 / 76TH ST

PROJECT NO: 2140-08-73	HWY: STH 181	COUNTY: MILWAUKEE	CURB RAMP DETAILS - BRADLEY RD. NW	SHEET	E

FILE NAME : s:\@sai\051--100\089\099\micros\design\0873\021238_pd.dgn PLOT DATE : 7/30/2007 PLOT BY : $$...plotuser...$$ PLOT NAME : PLOT SCALE : $$.....plotscale.....$$ WISDOT/CADDS SHEET 42

2

N

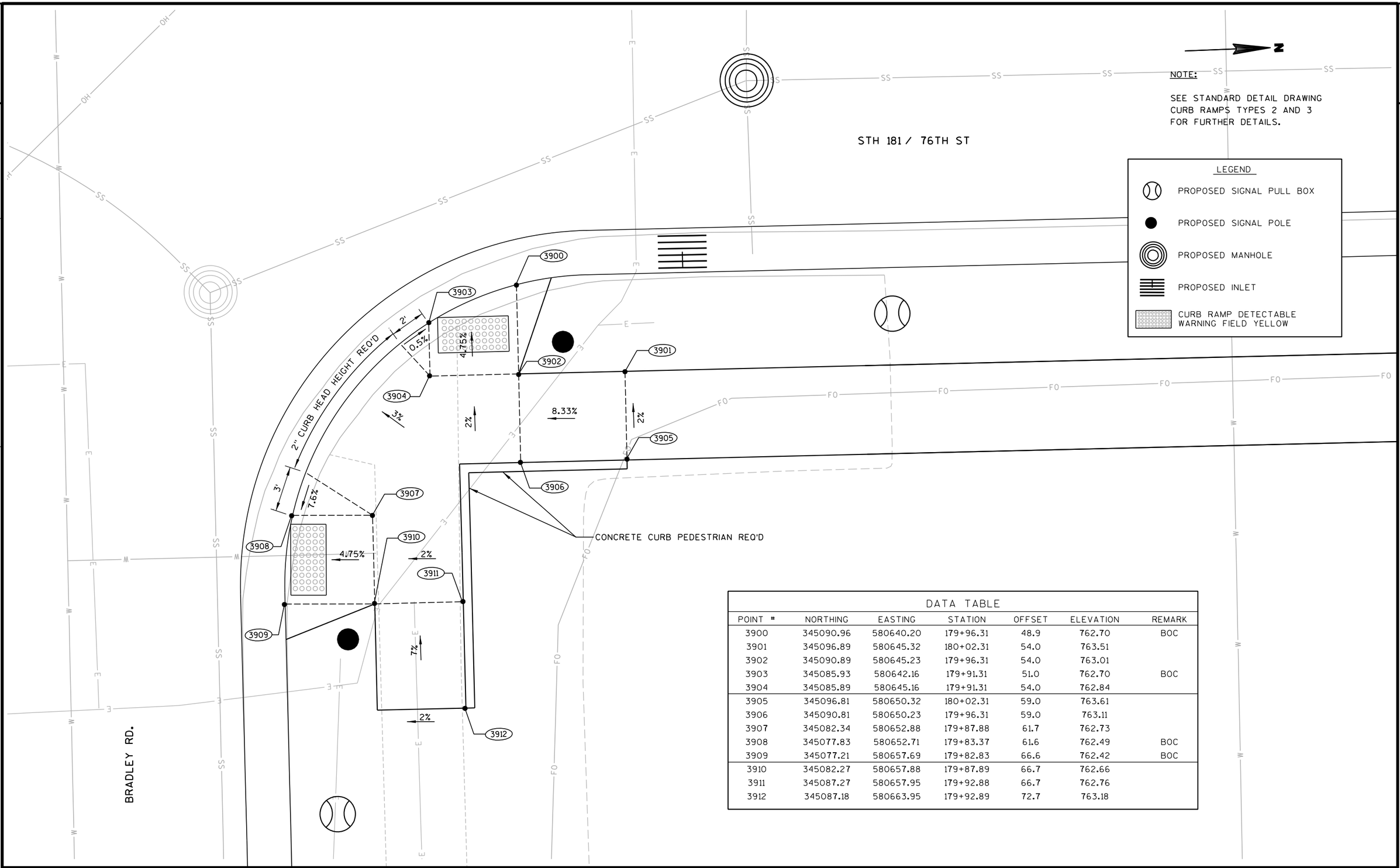
NOTE:

SEE STANDARD DETAIL DRAWING CURB RAMPS TYPES 2 AND 3 FOR FURTHER DETAILS.

STH 181 / 76TH ST

LEGEND

- PROPOSED SIGNAL PULL BOX
- PROPOSED SIGNAL POLE
- PROPOSED MANHOLE
- PROPOSED INLET
- CURB RAMP DETECTABLE WARNING FIELD YELLOW



DATA TABLE

POINT #	NORTHING	EASTING	STATION	OFFSET	ELEVATION	REMARK
3900	345090.96	580640.20	179+96.31	48.9	762.70	BOC
3901	345096.89	580645.32	180+02.31	54.0	763.51	
3902	345090.89	580645.23	179+96.31	54.0	763.01	
3903	345085.93	580642.16	179+91.31	51.0	762.70	BOC
3904	345085.89	580645.16	179+91.31	54.0	762.84	
3905	345096.81	580650.32	180+02.31	59.0	763.61	
3906	345090.81	580650.23	179+96.31	59.0	763.11	
3907	345082.34	580652.88	179+87.88	61.7	762.73	
3908	345077.83	580652.71	179+83.37	61.6	762.49	BOC
3909	345077.21	580657.69	179+82.83	66.6	762.42	BOC
3910	345082.27	580657.88	179+87.89	66.7	762.66	
3911	345087.27	580657.95	179+92.88	66.7	762.76	
3912	345087.18	580663.95	179+92.89	72.7	763.18	

STH 181 / 76TH ST

BRADLEY RD.

NOTE:

SEE STANDARD DETAIL DRAWING CURB RAMPS TYPES 2 AND 3 FOR FURTHER DETAILS.

LEGEND

- PROPOSED SIGNAL PULL BOX
- PROPOSED SIGNAL POLE
- PROPOSED MANHOLE
- PROPOSED INLET
- CURB RAMP DETECTABLE WARNING FIELD YELLOW

4000 8.33% 4003 4005 2' 2" CURB HEAD HEIGHT REQ'D 4.5% 2% 4004 8.33% 2% 2% 0.6% 4001 4002 4006 4007 CONCRETE CURB PEDESTRIAN REQ'D 8% 3' 4008 4011 2% 4.75% 4010 4009 4012 7.83% 4013 4014

DATA TABLE

POINT #	NORTHING	EASTING	STATION	OFFSET	ELEVATION	REMARK
4000	344968.94	580636.64	178+75.21	48.5	763.80	
4001	344968.58	580647.14	178+75.21	59.0	764.01	
4002	344974.58	580647.34	178+81.21	59.0	763.51	
4003	344974.94	580636.85	178+81.21	48.5	763.34	BOC
4004	344979.75	580642.52	178+86.21	54.0	763.25	
4005	344979.91	580637.82	178+86.21	49.3	763.20	BOC
4006	344979.57	580647.52	178+86.21	59.0	763.28	
4007	344981.25	580647.58	178+87.88	59.0	763.10	
4008	344986.26	580649.45	178+92.96	60.7	762.88	
4009	344986.09	580654.44	178+92.96	65.7	762.77	
4010	344981.17	580654.27	178+88.04	65.7	762.87	
4011	344990.97	580649.62	178+97.67	60.7	762.66	BOC
4012	344991.61	580654.64	178+98.49	65.7	762.51	BOC
4013	344981.18	580660.28	178+88.25	71.7	763.38	
4014	344985.88	580660.44	178+92.96	71.7	763.24	

PROJECT NO: 2140-08-73	HWY: STH 181	COUNTY: MILWAUKEE	CURB RAMP DETAILS - BRADLEY RD. SE	SHEET 80	E

DATA TABLE						
POINT #	NORTHING	EASTING	STATION	OFFSET	ELEVATION	REMARK
4100	345683.41	580541.09	185+87.22	59.0	764.16	
4101	345689.41	580541.18	185+93.22	59.0	763.76	
4102	345694.94	580541.32	185+98.75	58.9	763.61	
4103	345703.13	580541.38	186+06.94	59.0	763.43	BOC
4104	345683.33	580546.09	185+87.22	54.0	764.06	
4105	345694.35	580546.21	185+98.23	54.0	763.56	
4106	345698.76	580546.32	186+02.65	54.0	763.47	BOC
4107	345694.29	580549.25	185+98.22	51.0	763.42	BOC
4108	345689.26	580551.04	185+93.22	49.1	763.40	BOC

NOTE:

SEE STANDARD DETAIL DRAWING CURB RAMPS TYPES 2 AND 3 FOR FURTHER DETAILS.

LEGEND

- PROPOSED SIGNAL PULL BOX
- PROPOSED SIGNAL POLE
- PROPOSED MANHOLE
- PROPOSED INLET
- CURB RAMP DETECTABLE WARNING FIELD YELLOW

TOWER AVE.

CONCRETE CURB PEDESTRIAN REQ'D

4100 4101 4102 4103 4104 4105 4106 4107 4108

2% 7.17% 1.4% 2.04% 4.75% 7.7% 8.3% 2' 2' 2'

2" CURB HEAD HEIGHT REQ'D

STH 181 / 76TH ST

PROJECT NO:2140-08-73	HWY: STH 181	COUNTY:MILWAUKEE	CURB RAMP DETAILS - TOWER AVE. SW	SHEET 81	E

2

TOWER AVE.

DATA TABLE						
POINT #	NORTHING	EASTING	STATION	OFFSET	ELEVATION	REMARK
4200	345756.64	580542.18	186+60.46	-59.0	763.80	BOC
4201	345765.37	580542.31	186+69.19	-59.0	764.18	
4202	345770.37	580542.39	186+74.19	-59.0	764.28	
4203	345776.37	580542.48	186+80.19	-59.0	764.78	
4204	345760.86	580547.24	186+64.75	-54.0	763.87	BOC
4205	345765.29	580547.31	186+69.19	-54.0	764.08	
4206	345770.29	580547.39	186+74.19	-54.0	764.18	
4207	345765.25	580550.31	186+69.19	-51.0	763.98	BOC
4208	345770.22	580552.25	186+74.19	-49.1	764.04	BOC
4209	345776.21	580552.97	186+80.19	-48.5	764.58	BOC

N

NOTE:

SEE STANDARD DETAIL DRAWING CURB RAMPS TYPES 2 AND 3 FOR FURTHER DETAILS.

LEGEND

- PROPOSED SIGNAL PULL BOX
- PROPOSED SIGNAL POLE
- PROPOSED MANHOLE
- PROPOSED INLET
- CURB RAMP DETECTABLE WARNING FIELD YELLOW

4200 4201 4202 4203 4204 4205 4206 4207 4208 4209

4.75%

2%

8.33%

2%

7.60%

3'

8%

2'

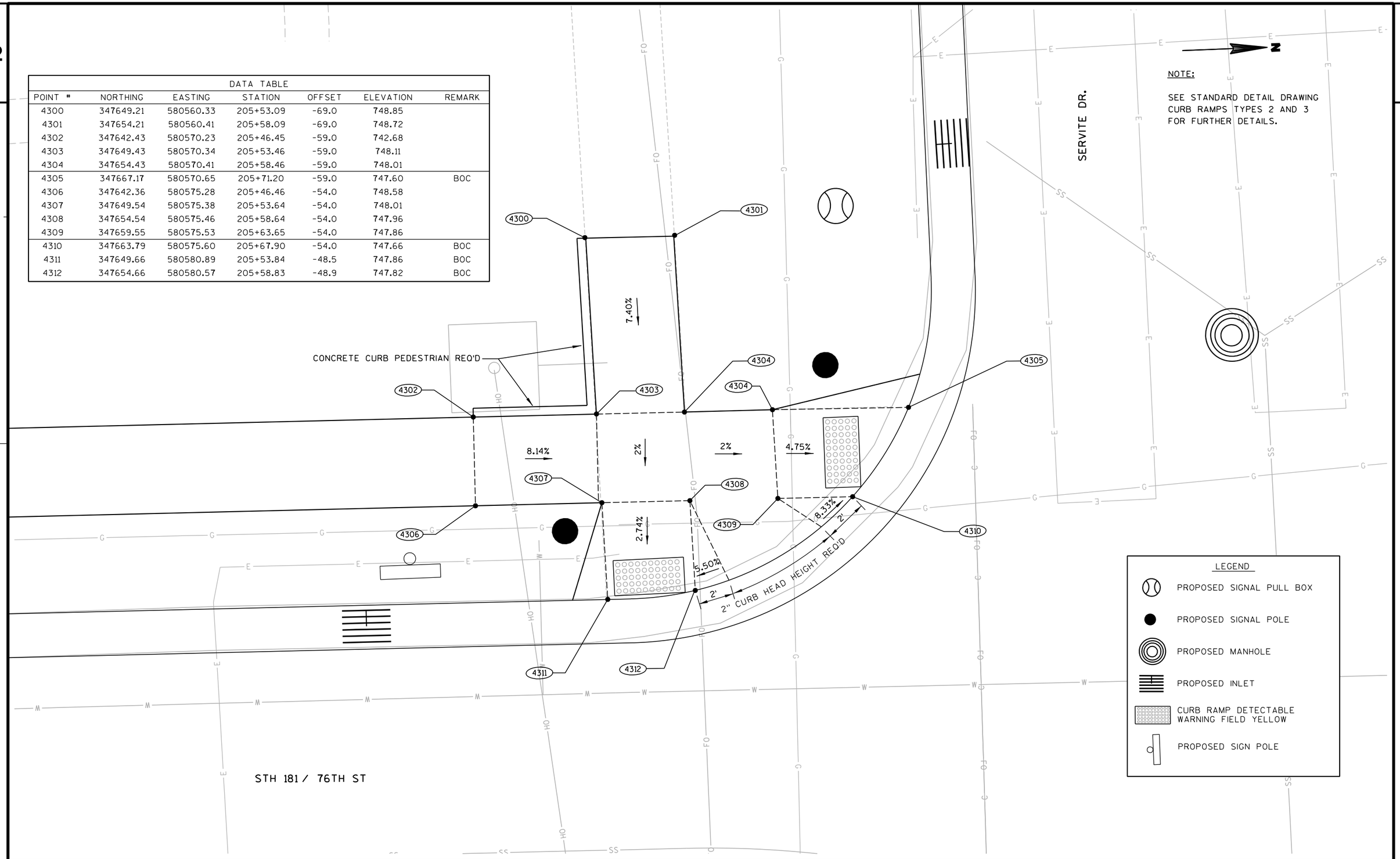
3.33%

2" CURB HEAD HEIGHT REQ'D

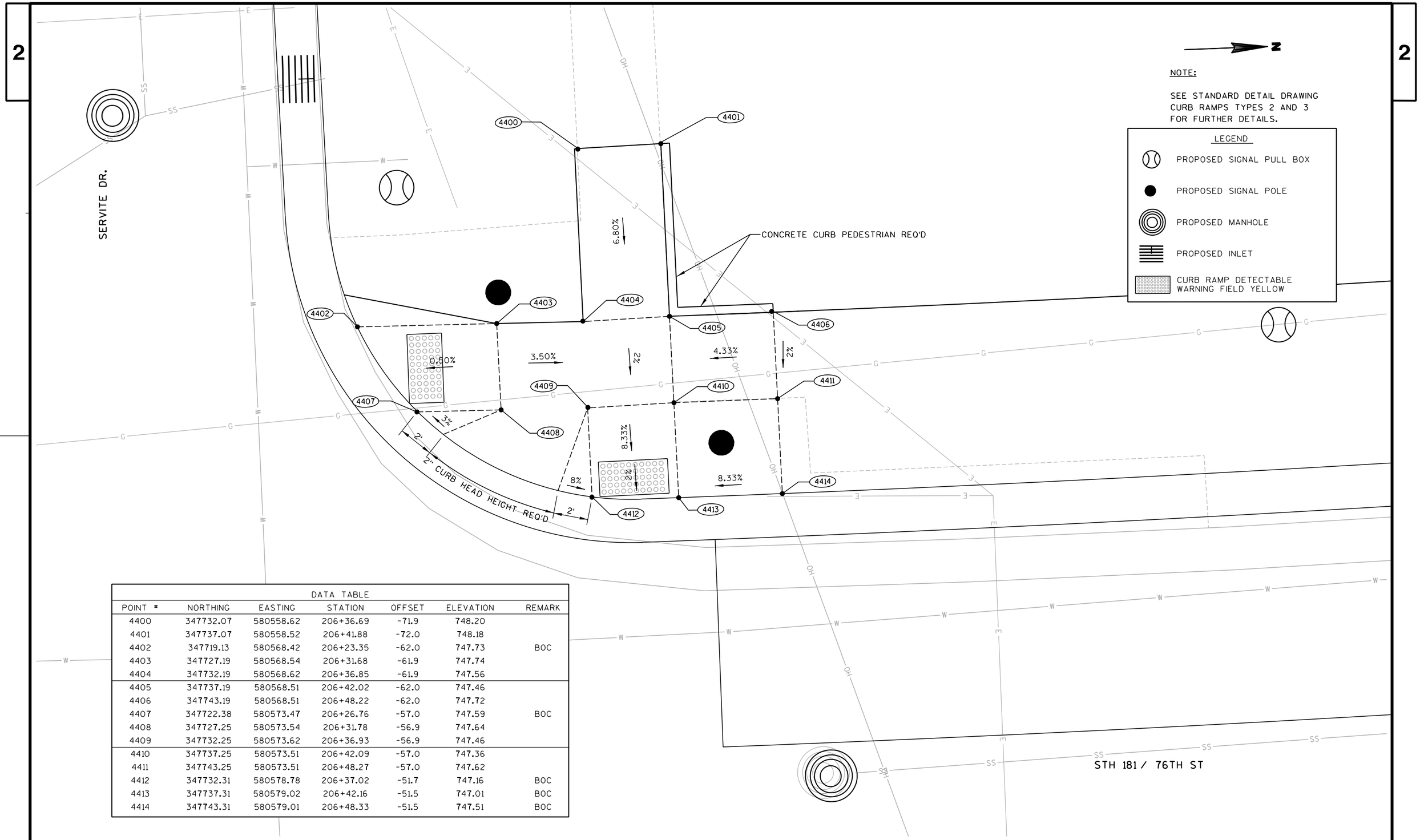
STH 181 / 76TH ST

PROJECT NO:2140-08-73	HWY: STH 181	COUNTY:MILWAUKEE	CURB RAMP DETAILS - TOWER AVE. NW	SHEET 82	E

DATA TABLE						
POINT #	NORTHING	EASTING	STATION	OFFSET	ELEVATION	REMARK
4300	347649.21	580560.33	205+53.09	-69.0	748.85	
4301	347654.21	580560.41	205+58.09	-69.0	748.72	
4302	347642.43	580570.23	205+46.45	-59.0	742.68	
4303	347649.43	580570.34	205+53.46	-59.0	748.11	
4304	347654.43	580570.41	205+58.46	-59.0	748.01	
4305	347667.17	580570.65	205+71.20	-59.0	747.60	BOC
4306	347642.36	580575.28	205+46.46	-54.0	748.58	
4307	347649.54	580575.38	205+53.64	-54.0	748.01	
4308	347654.54	580575.46	205+58.64	-54.0	747.96	
4309	347659.55	580575.53	205+63.65	-54.0	747.86	
4310	347663.79	580575.60	205+67.90	-54.0	747.66	BOC
4311	347649.66	580580.89	205+53.84	-48.5	747.86	BOC
4312	347654.66	580580.57	205+58.83	-48.9	747.82	BOC



PROJECT NO:2140-08-73	HWY: STH 181	COUNTY: MILWAUKEE	CURB RAMP DETAILS - SERVITE DR. SW	SHEET 83	E



DATA TABLE

POINT #	NORTHING	EASTING	STATION	OFFSET	ELEVATION	REMARK
4400	347732.07	580558.62	206+36.69	-71.9	748.20	
4401	347737.07	580558.52	206+41.88	-72.0	748.18	
4402	347719.13	580568.42	206+23.35	-62.0	747.73	BOC
4403	347727.19	580568.54	206+31.68	-61.9	747.74	
4404	347732.19	580568.62	206+36.85	-61.9	747.56	
4405	347737.19	580568.51	206+42.02	-62.0	747.46	
4406	347743.19	580568.51	206+48.22	-62.0	747.72	
4407	347722.38	580573.47	206+26.76	-57.0	747.59	BOC
4408	347727.25	580573.54	206+31.78	-56.9	747.64	
4409	347732.25	580573.62	206+36.93	-56.9	747.46	
4410	347737.25	580573.51	206+42.09	-57.0	747.36	
4411	347743.25	580573.51	206+48.27	-57.0	747.62	
4412	347732.31	580578.78	206+37.02	-51.7	747.16	BOC
4413	347737.31	580579.02	206+42.16	-51.5	747.01	BOC
4414	347743.31	580579.01	206+48.33	-51.5	747.51	BOC

PROJECT NO: 2140-08-73	HWY: STH 181	COUNTY: MILWAUKEE	CURB RAMP DETAILS - SERVITE DR. NW	SHEET 84	E

2

N

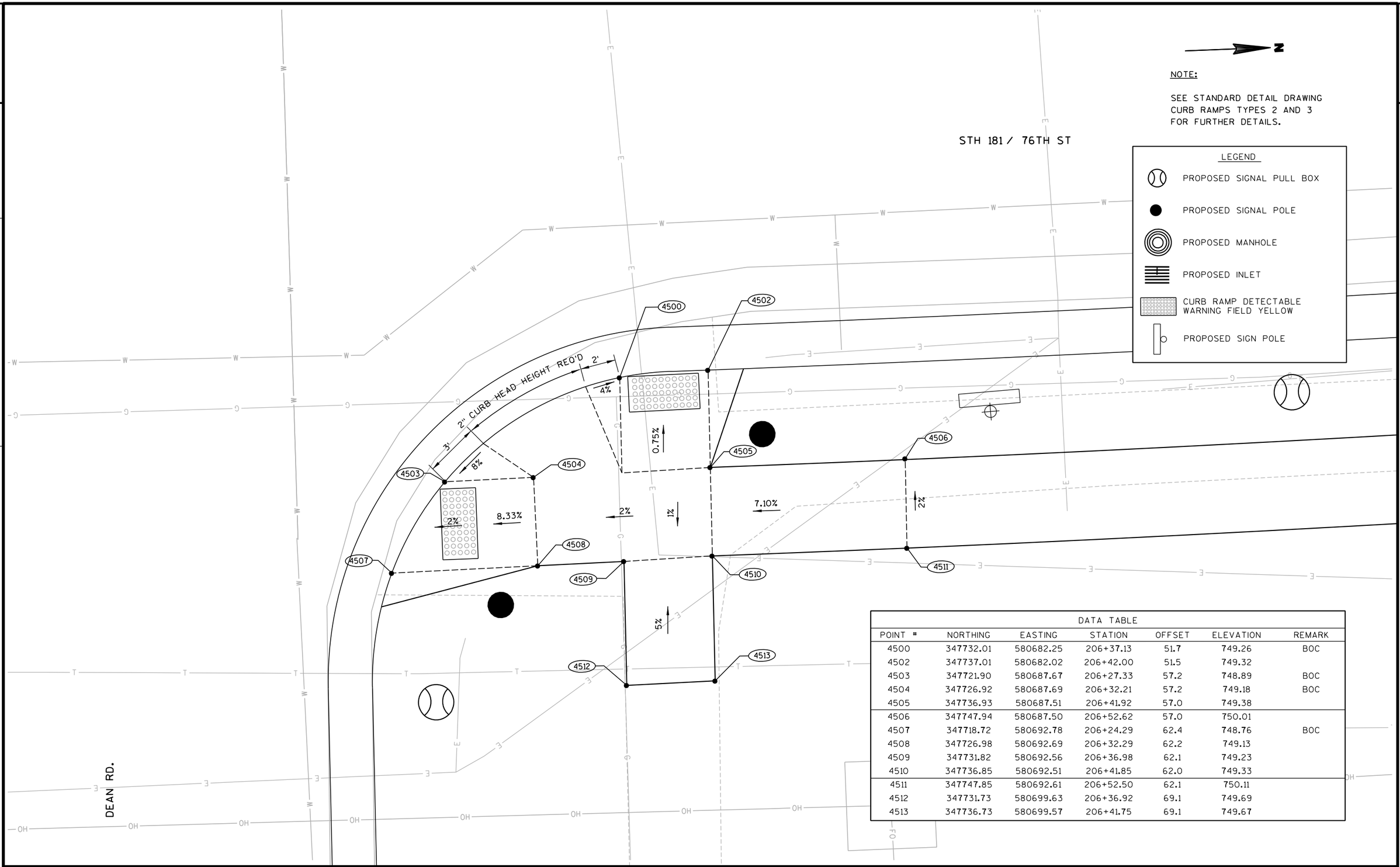
NOTE:

SEE STANDARD DETAIL DRAWING CURB RAMPS TYPES 2 AND 3 FOR FURTHER DETAILS.

STH 181 / 76TH ST

LEGEND

- PROPOSED SIGNAL PULL BOX
- PROPOSED SIGNAL POLE
- PROPOSED MANHOLE
- PROPOSED INLET
- CURB RAMP DETECTABLE WARNING FIELD YELLOW
- PROPOSED SIGN POLE



DATA TABLE

POINT #	NORTHING	EASTING	STATION	OFFSET	ELEVATION	REMARK
4500	347732.01	580682.25	206+37.13	51.7	749.26	BOC
4502	347737.01	580682.02	206+42.00	51.5	749.32	
4503	347721.90	580687.67	206+27.33	57.2	748.89	BOC
4504	347726.92	580687.69	206+32.21	57.2	749.18	BOC
4505	347736.93	580687.51	206+41.92	57.0	749.38	
4506	347747.94	580687.50	206+52.62	57.0	750.01	
4507	347718.72	580692.78	206+24.29	62.4	748.76	BOC
4508	347726.98	580692.69	206+32.29	62.2	749.13	
4509	347731.82	580692.56	206+36.98	62.1	749.23	
4510	347736.85	580692.51	206+41.85	62.0	749.33	
4511	347747.85	580692.61	206+52.50	62.1	750.11	
4512	347731.73	580699.63	206+36.92	69.1	749.69	
4513	347736.73	580699.57	206+41.75	69.1	749.67	

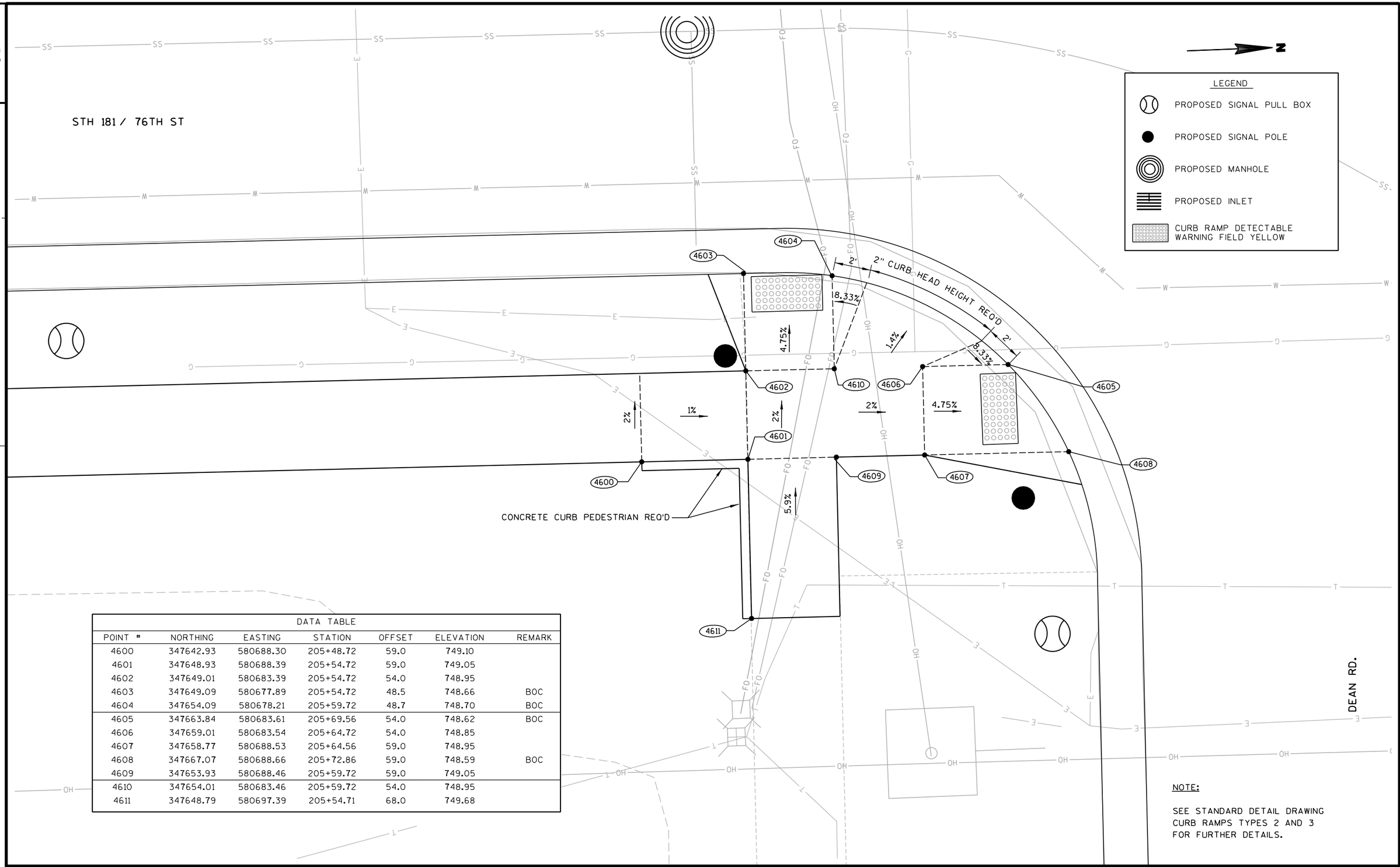
PROJECT NO: 2140-08-73	HWY: STH 181	COUNTY: MILWAUKEE	CURB RAMP DETAILS - DEAN RD. NE	SHEET 85	E

2

STH 181 / 76TH ST

LEGEND

- PROPOSED SIGNAL PULL BOX
- PROPOSED SIGNAL POLE
- PROPOSED MANHOLE
- PROPOSED INLET
- CURB RAMP DETECTABLE WARNING FIELD YELLOW



DATA TABLE						
POINT #	NORTHING	EASTING	STATION	OFFSET	ELEVATION	REMARK
4600	347642.93	580688.30	205+48.72	59.0	749.10	
4601	347648.93	580688.39	205+54.72	59.0	749.05	
4602	347649.01	580683.39	205+54.72	54.0	748.95	
4603	347649.09	580677.89	205+54.72	48.5	748.66	BOC
4604	347654.09	580678.21	205+59.72	48.7	748.70	BOC
4605	347663.84	580683.61	205+69.56	54.0	748.62	BOC
4606	347659.01	580683.54	205+64.72	54.0	748.85	
4607	347658.77	580688.53	205+64.56	59.0	748.95	
4608	347667.07	580688.66	205+72.86	59.0	748.59	BOC
4609	347653.93	580688.46	205+59.72	59.0	749.05	
4610	347654.01	580683.46	205+59.72	54.0	748.95	
4611	347648.79	580697.39	205+54.71	68.0	749.68	

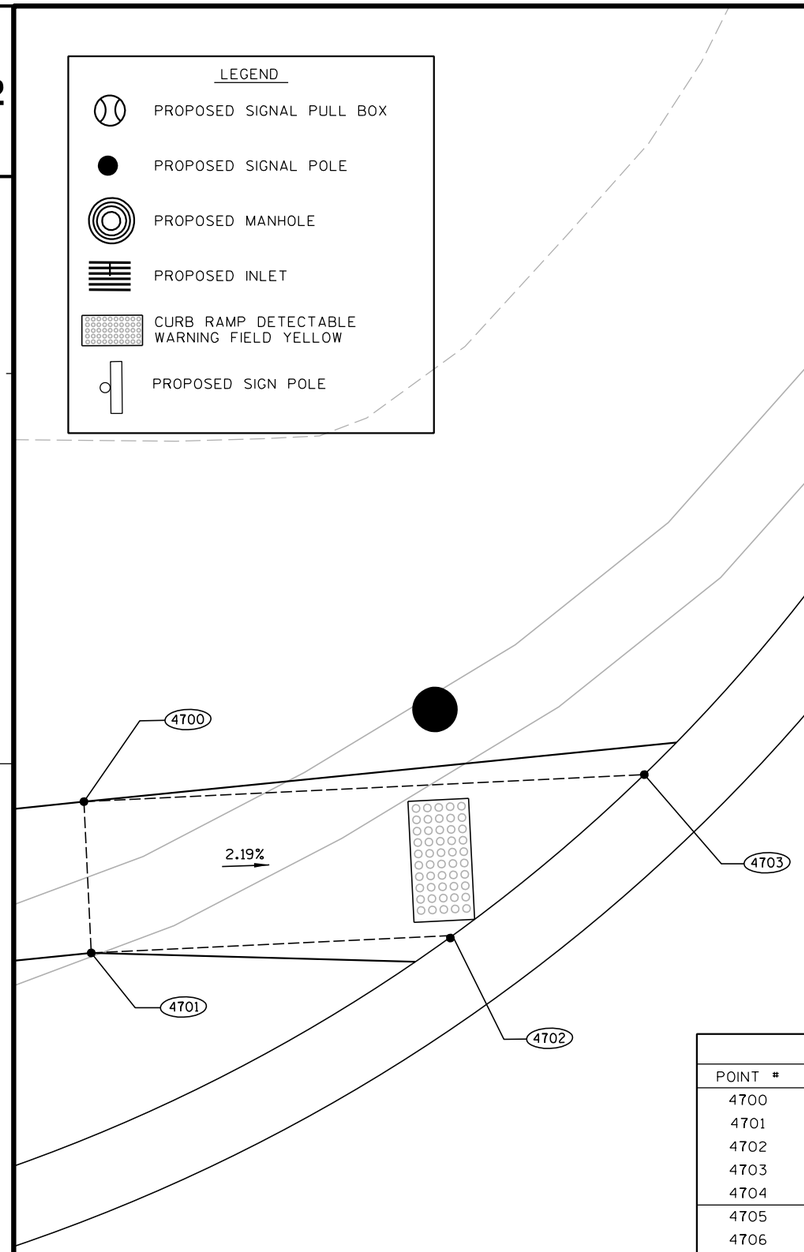
NOTE:

SEE STANDARD DETAIL DRAWING CURB RAMPS TYPES 2 AND 3 FOR FURTHER DETAILS.

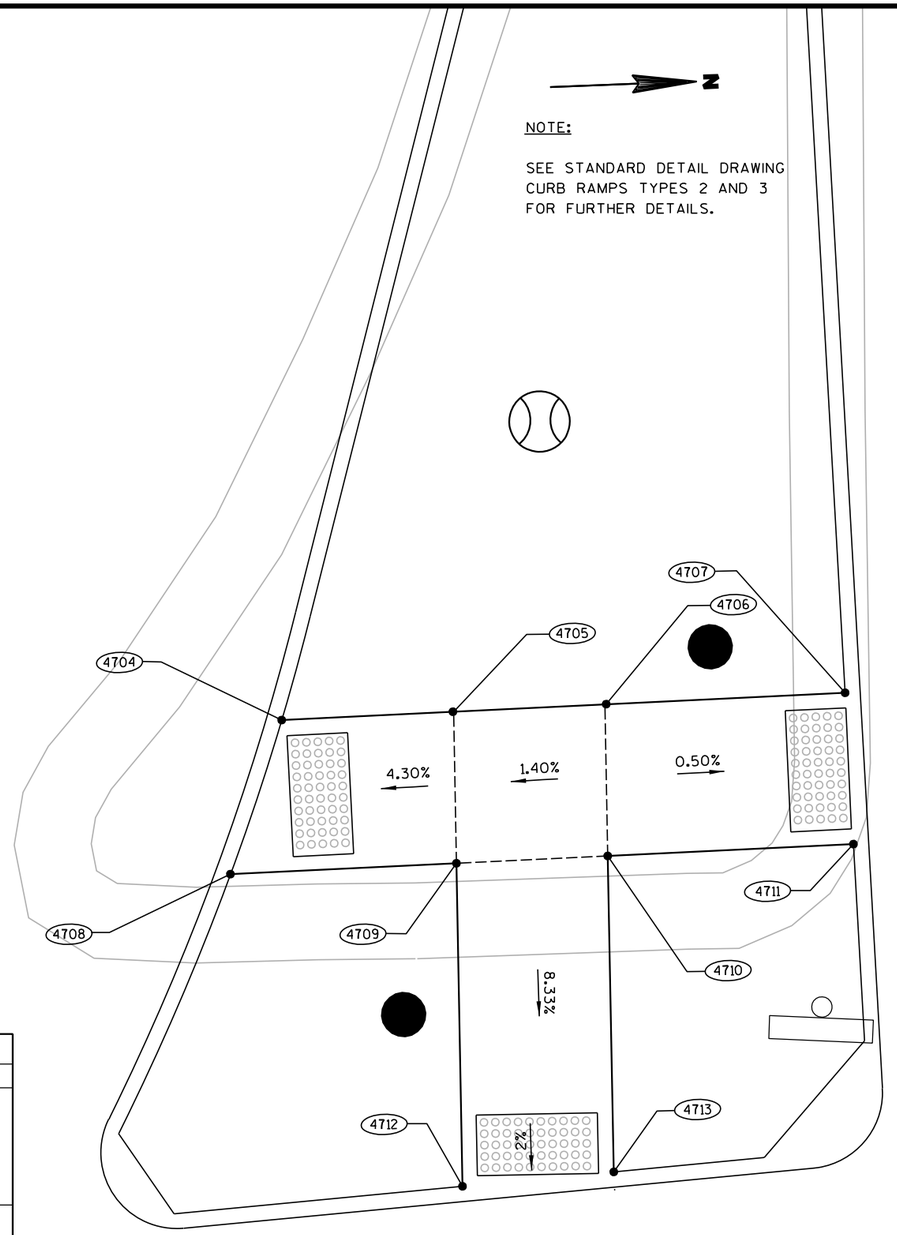
PROJECT NO: 2140-08-73	HWY: STH 181	COUNTY: MILWAUKEE	CURB RAMP DETAILS - DEAN RD. SE	SHEET 86	E

LEGEND

- PROPOSED SIGNAL PULL BOX
- PROPOSED SIGNAL POLE
- PROPOSED MANHOLE
- PROPOSED INLET
- CURB RAMP DETECTABLE WARNING FIELD YELLOW
- PROPOSED SIGN POLE



PRIVATE ROAD



DATA TABLE

POINT #	NORTHING	EASTING	STATION	OFFSET	ELEVATION	REMARK
4700	351950.08	580620.14	249+54.17	-54.4	796.01	
4701	351950.13	580625.14	249+54.32	-49.4	795.91	
4702	351962.07	580625.02	249+66.25	-49.8	795.54	BOC
4703	351968.60	580619.96	249+72.68	-55.0	795.77	BOC
4704	352005.71	580619.60	250+09.78	-56.1	796.33	BOC
4705	352011.39	580619.55	250+15.46	-56.3	796.57	
4706	352016.39	580619.50	250+20.46	-56.4	796.64	
4707	352024.33	580619.42	250+28.39	-56.7	796.63	BOC
4708	352003.83	580624.62	250+08.00	-51.1	796.24	BOC
4709	352011.29	580624.55	250+15.46	-51.3	796.57	
4710	352016.29	580624.50	250+20.46	-51.4	796.64	
4711	352024.41	580624.42	250+28.57	-51.7	796.56	BOC
4712	352011.07	580635.21	250+15.46	-40.6	795.81	BOC
4713	352016.08	580634.93	250+20.46	-41.0	795.86	BOC

STH 181 / 76TH ST

2

PRIVATE ROAD

CONCRETE CURB PEDESTRIAN REQ'D

4806 4800 4810 4805 4807 4804 4801 4809 4802 4803 4808

1.60% 2% 4.10% 5.50% 2% 4.75% 4.50% 7.50% 8% 2' 2" CURB HEAD HEIGHT REQ'D 2'

N

NOTE:

SEE STANDARD DETAIL DRAWING CURB RAMPS TYPES 2 AND 3 FOR FURTHER DETAILS.

LEGEND

- PROPOSED SIGNAL PULL BOX
- PROPOSED SIGNAL POLE
- PROPOSED MANHOLE
- PROPOSED INLET
- CURB RAMP DETECTABLE WARNING FIELD YELLOW

DATA TABLE

POINT #	NORTHING	EASTING	STATION	OFFSET	ELEVATION	REMARK
4800	352127.92	580619.20	251+31.95	-59.0	797.52	
4801	352127.82	580624.20	251+31.95	-54.0	797.42	
4802	352127.72	580628.70	251+31.95	-49.5	797.33	
4803	352121.73	580628.58	251+25.95	-49.5	796.88	BOC
4804	352121.82	580624.08	251+25.95	-54.0	797.09	
4805	352121.92	580619.08	251+25.95	-59.0	797.19	
4806	352116.92	580618.98	251+20.95	-59.0	797.11	
4807	352116.82	580623.98	251+20.95	-54.0	797.01	
4808	352116.73	580628.20	251+20.95	-49.8	796.81	BOC
4809	352106.82	580623.78	251+10.95	-54.0	796.54	BOC
4810	352102.06	580618.68	251+06.08	-59.0	796.43	BOC

STH 181 / 76TH ST

PROJECT NO: 2140-08-73	HWY: STH 181	COUNTY: MILWAUKEE	CURB RAMP DETAILS - PRIVATE RD (STA. 250+44 LT) NW	SHEET 88	E

DATA TABLE						
POINT #	NORTHING	EASTING	STATION	OFFSET	ELEVATION	REMARK
4900	352682.07	580630.49	256+86.22	-59.0	703.83	
4901	352687.46	580630.60	256+91.61	-59.0	703.72	BOC
4902	352692.75	580630.71	256+96.90	-59.0	703.54	
4903	352669.23	580639.23	256+73.56	-50.0	703.51	
4904	352673.64	580638.84	256+77.96	-50.5	703.19	
4905	352691.38	580635.68	256+95.63	-54.0	703.43	BOC
4906	352669.13	580644.23	256+73.56	-45.0	703.41	
4907	352675.13	580644.35	256+79.56	-45.0	703.08	
4908	352680.13	580644.45	256+84.56	-45.0	703.11	
4909	352675.03	580649.29	256+79.56	-40.1	702.84	
4910	352680.07	580647.61	256+84.56	-41.8	702.96	BOC
4911	352687.36	580635.60	256+91.61	-54.0	703.62	BOC

NOTE:

SEE STANDARD DETAIL DRAWING CURB RAMPS TYPES 2 AND 3 FOR FURTHER DETAILS.

LEGEND

- PROPOSED SIGNAL PULL BOX
- PROPOSED SIGNAL POLE
- PROPOSED MANHOLE
- PROPOSED INLET
- CURB RAMP DETECTABLE WARNING FIELD YELLOW
- PROPOSED SIGN POLE

PRIVATE ROAD

4900 4901 4902 4903 4904 4905 4906 4907 4908 4909 4910 4911

2% 4.07% 3.50% 2' 1.50% 2% 2% 4.75% 8.33% 3' 2" CURB HEAD HEIGHT REQ'D

STH 181 / 76TH ST

PROJECT NO: 2140-08-73	HWY: STH 181	COUNTY: MILWAUKEE	CURB RAMP DETAILS - PRIVATE RD (STA. 257+36 LT) SW	SHEET 89	E

NOTE:

SEE STANDARD DETAIL DRAWING CURB RAMPS TYPES 2 AND 3 FOR FURTHER DETAILS.

LEGEND

- PROPOSED SIGNAL PULL BOX
- PROPOSED SIGNAL POLE
- PROPOSED MANHOLE
- PROPOSED INLET
- CURB RAMP DETECTABLE WARNING FIELD YELLOW

PRIVATE ROAD

CONCRETE CURB PEDESTRIAN REQ'D

2" CURB HEAD HEIGHT REQ'D

3.55%

7.83%

8.33%

2%

2%

8%

6%

4.75%

2'

2'

5000 5001 5002 5003 5004 5005 5006 5007 5008 5009

DATA TABLE						
POINT #	NORTHING	EASTING	STATION	OFFSET	ELEVATION	REMARK
5000	352773.94	580632.36	257+78.11	-59.0	703.61	BOC
5001	352788.48	580632.66	257+92.65	-59.0	703.94	
5002	352794.48	580632.78	257+98.65	-59.0	704.41	
5003	352778.70	580637.46	257+82.97	-54.0	703.64	BOC
5004	352783.38	580637.56	257+87.65	-54.0	703.82	
5005	352788.38	580637.66	257+92.65	-54.0	703.84	
5006	352794.38	580637.68	257+98.65	-54.1	704.31	
5007	352783.36	580640.10	257+87.68	-51.5	703.69	BOC
5008	352788.29	580641.83	257+92.65	-49.8	703.71	BOC
5009	352794.28	580642.28	257+98.65	-49.5	704.22	BOC

STH 181 / 76TH ST

PROJECT NO: 2140-08-73	HWY: STH 181	COUNTY: MILWAUKEE	CURB RAMP DETAILS - PRIVATE RD (STA. 257+36 LT) NW	SHEET 90	E

2

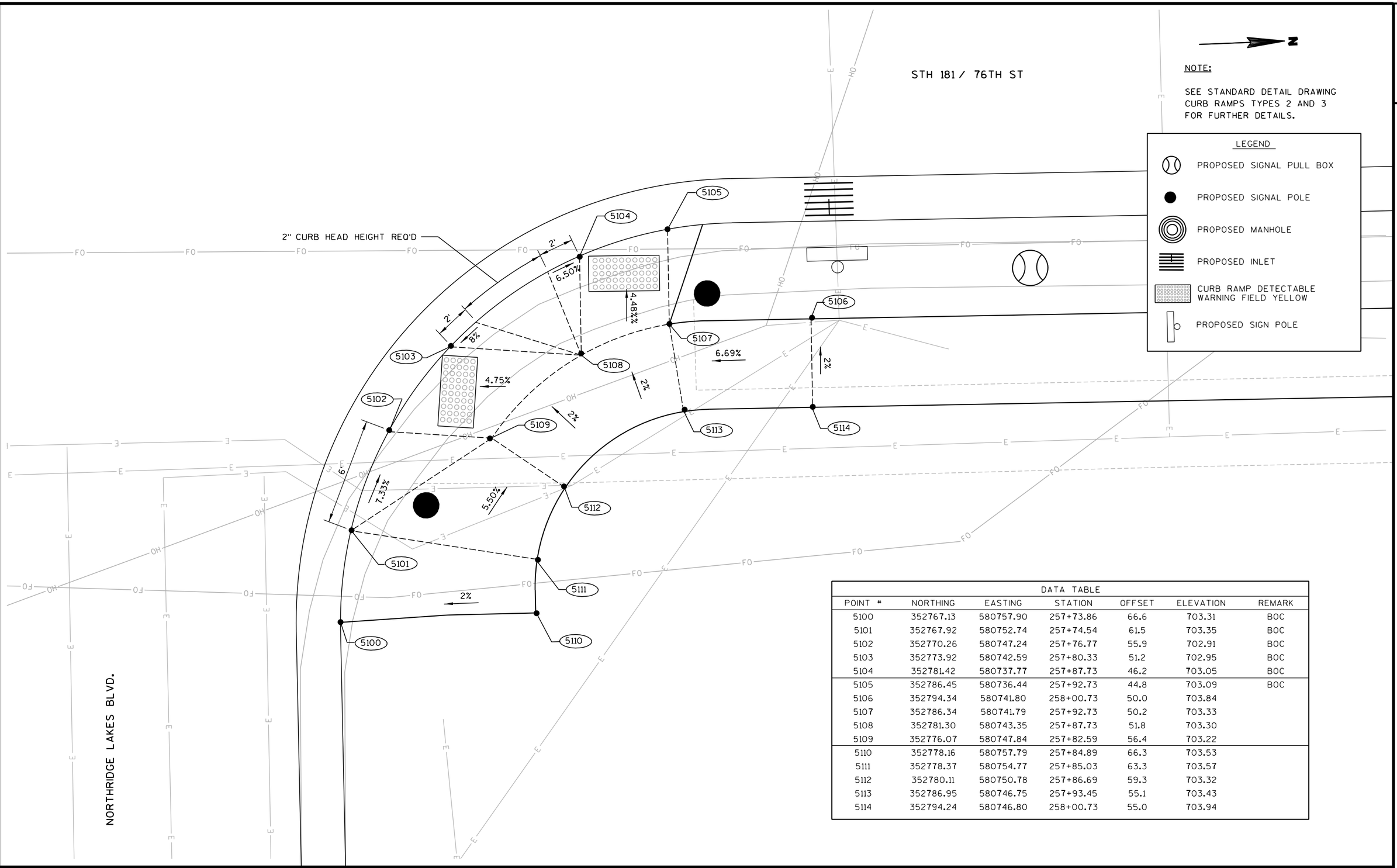
STH 181 / 76TH ST

NOTE:

SEE STANDARD DETAIL DRAWING CURB RAMPS TYPES 2 AND 3 FOR FURTHER DETAILS.

LEGEND

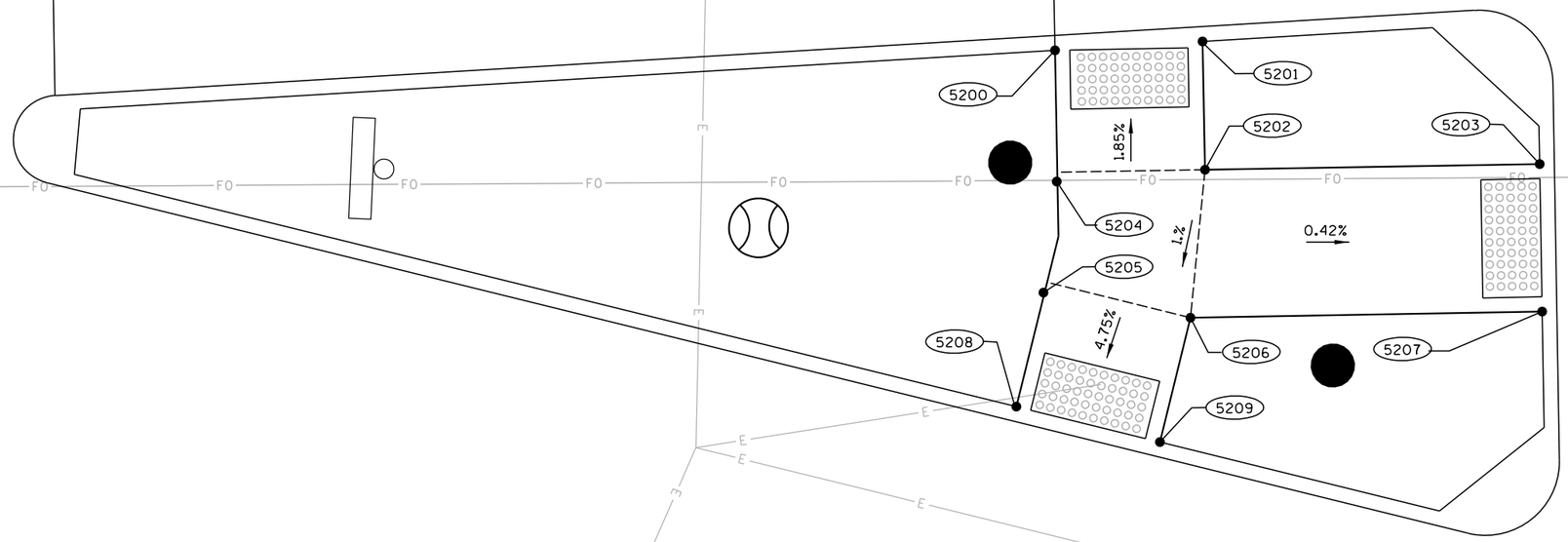
- PROPOSED SIGNAL PULL BOX
- PROPOSED SIGNAL POLE
- PROPOSED MANHOLE
- PROPOSED INLET
- CURB RAMP DETECTABLE WARNING FIELD YELLOW
- PROPOSED SIGN POLE

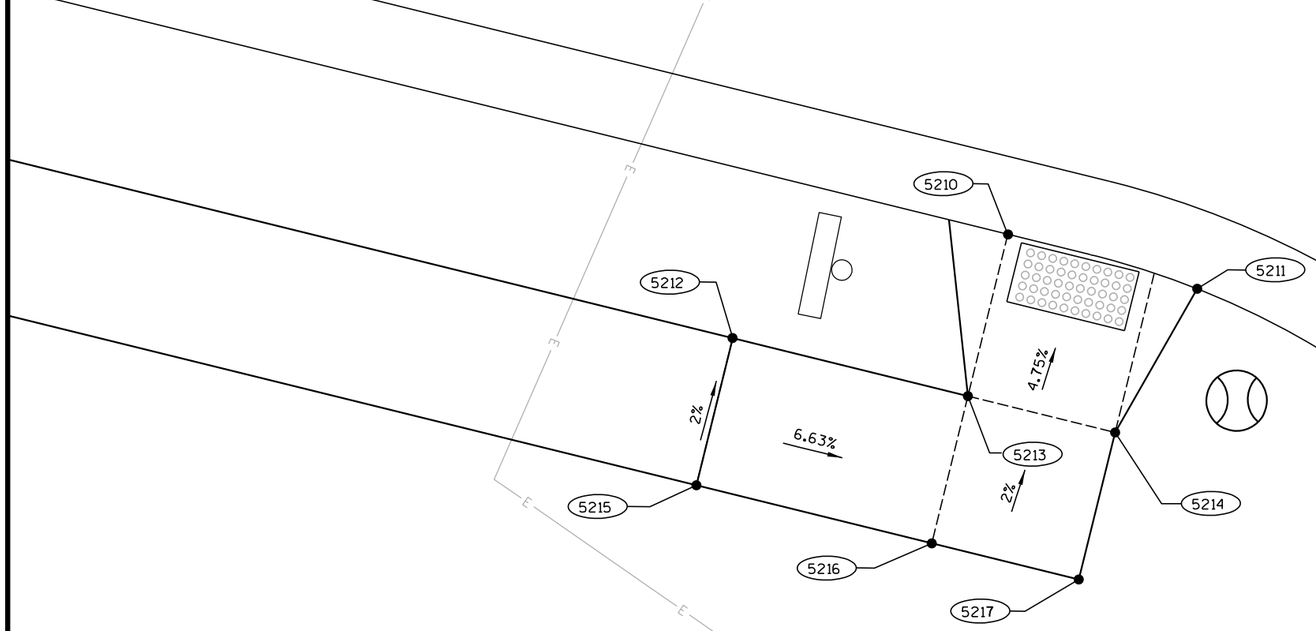


DATA TABLE

POINT #	NORTHING	EASTING	STATION	OFFSET	ELEVATION	REMARK
5100	352767.13	580757.90	257+73.86	66.6	703.31	BOC
5101	352767.92	580752.74	257+74.54	61.5	703.35	BOC
5102	352770.26	580747.24	257+76.77	55.9	702.91	BOC
5103	352773.92	580742.59	257+80.33	51.2	702.95	BOC
5104	352781.42	580737.77	257+87.73	46.2	703.05	BOC
5105	352786.45	580736.44	257+92.73	44.8	703.09	BOC
5106	352794.34	580741.80	258+00.73	50.0	703.84	
5107	352786.34	580741.79	257+92.73	50.2	703.33	
5108	352781.30	580743.35	257+87.73	51.8	703.30	
5109	352776.07	580747.84	257+82.59	56.4	703.22	
5110	352778.16	580757.79	257+84.89	66.3	703.53	
5111	352778.37	580754.77	257+85.03	63.3	703.57	
5112	352780.11	580750.78	257+86.69	59.3	703.32	
5113	352786.95	580746.75	257+93.45	55.1	703.43	
5114	352794.24	580746.80	258+00.73	55.0	703.94	

STH 181 / 76TH ST





N

NOTE:

SEE STANDARD DETAIL DRAWING CURB RAMPS TYPES 2 AND 3 FOR FURTHER DETAILS.

LEGEND

- PROPOSED SIGNAL PULL BOX
- PROPOSED SIGNAL POLE
- PROPOSED MANHOLE
- PROPOSED INLET
- CURB RAMP DETECTABLE WARNING FIELD YELLOW
- PROPOSED SIGN POLE

NORTHRIDGE LAKES BLVD.

DATA TABLE

POINT #	NORTHING	EASTING	STATION	OFFSET	ELEVATION	REMARK
5200	352673.44	580729.43	256+79.60	40.1	702.26	BOC
5201	352678.44	580729.32	256+84.61	39.9	702.31	BOC
5202	352678.35	580733.67	256+84.60	44.2	702.39	
5203	352689.68	580733.91	256+95.93	44.2	702.34	
5204	352673.35	580733.56	256+79.60	44.2	702.34	
5205	352672.87	580737.27	256+79.19	47.9	702.30	
5206	352677.67	580738.65	256+84.03	49.2	702.34	
5207	352689.57	580738.91	256+95.93	49.2	702.29	BOC
5208	352671.67	580741.43	256+78.08	52.1	702.09	BOC
5209	352676.47	580742.82	256+82.91	53.4	702.13	BOC
5210	352666.96	580757.77	256+73.70	68.6	701.75	BOC
5211	352671.74	580759.24	256+78.51	69.9	701.79	BOC
5212	352657.75	580760.84	256+64.56	71.8	702.51	
5213	352665.43	580763.05	256+72.28	73.9	701.98	
5214	352670.24	580764.44	256+77.12	75.2	702.02	
5215	352656.36	580765.64	256+63.27	76.6	702.61	
5216	352664.05	580767.86	256+71.00	78.7	702.08	
5217	352668.85	580769.24	256+75.83	80.0	702.12	

PROJECT NO:2140-08-73	HWY: STH 181	COUNTY: MILWAUKEE	CURB RAMP DETAILS - NORTHRIDGE LAKES BLVD. SE	SHEET	E

FILE NAME : s:\@sai\051--100\089\099\micros\design\0873\021252_pd.dgn PLOT DATE : 7/30/2007 PLOT BY : $$...plotuser...$$ PLOT NAME : PLOT SCALE : $$.....plotscale.....$$ WISDOT/CADDS SHEET 42

DATA TABLE						
POINT #	NORTHING	EASTING	STATION	OFFSET	ELEVATION	REMARK
5300	353348.44	580643.66	263+52.79	-59.0	707.40	
5301	353355.44	580643.79	263+59.79	-59.0	706.87	
5302	353360.43	580643.89	263+64.79	-59.0	706.79	
5303	353368.02	580644.03	263+72.37	-59.0	706.66	BOC
5304	353348.34	580648.66	263+52.79	-54.0	707.25	
5305	353355.34	580648.79	263+59.79	-54.0	706.77	
5306	353355.27	580652.54	263+59.79	-50.3	706.59	BOC
5307	353360.34	580648.89	263+64.79	-54.0	706.69	
5308	353360.30	580650.64	263+64.79	-52.2	706.61	BOC
5309	353361.71	580649.84	263+66.18	-53.1	706.74	BOC
5310	353363.06	580648.94	263+67.51	-54.0	706.63	BOC

N

NOTE:

SEE STANDARD DETAIL DRAWING CURB RAMPS TYPES 2 AND 3 FOR FURTHER DETAILS.

LEGEND

- PROPOSED SIGNAL PULL BOX
- PROPOSED SIGNAL POLE
- PROPOSED MANHOLE
- PROPOSED INLET
- CURB RAMP DETECTABLE WARNING FIELD YELLOW
- PROPOSED SIGN POLE

CONCRETE CURB PEDESTRIAN REQ'D

5300 5301 5302 5303 5304 5305 5306 5307 5308 5309 5310

1.60% 2% 7.07% 2.47% 4.15% 8.33% 7.33%

PRIVATE ROAD

STH 181 / 76TH ST

PROJECT NO:2140-08-73	HWY: STH 181	COUNTY:MILWAUKEE	CURB RAMP DETAILS - PRIVATE RD (STA. 264+03 LT) SW	SHEET 93	E

2

DATA TABLE						
POINT #	NORTHING	EASTING	STATION	OFFSET	ELEVATION	REMARK
5400	353453.41	580645.67	264+57.78	-59.0	706.44	BOC
5401	353461.78	580645.83	264+66.15	-59.0	706.59	
5402	353466.78	580645.93	264+71.15	-59.0	706.69	
5403	353471.78	580646.02	264+76.15	-59.0	706.27	
5404	353476.77	580646.12	264+81.15	-59.0	706.23	
5405	353481.77	580646.22	264+86.15	-59.0	706.54	
5406	353458.18	580650.76	264+62.65	-54.0	706.32	BOC
5407	353461.68	580650.83	264+66.15	-54.0	706.49	
5408	353466.68	580650.93	264+71.15	-54.0	706.59	
5409	353471.68	580651.02	264+76.15	-54.0	706.17	
5410	353476.68	580651.12	264+81.15	-54.0	706.13	
5411	353481.68	580651.21	264+86.15	-54.0	706.44	
5412	353471.59	580655.52	264+76.15	-49.5	705.96	BOC
5413	353476.59	580655.62	264+81.15	-49.5	705.92	BOC

N

NOTE:

SEE STANDARD DETAIL DRAWING CURB RAMPS TYPES 2 AND 3 FOR FURTHER DETAILS.

LEGEND

- PROPOSED SIGNAL PULL BOX
- PROPOSED SIGNAL POLE
- PROPOSED MANHOLE
- PROPOSED INLET
- CURB RAMP DETECTABLE WARNING FIELD YELLOW

PRIVATE ROAD

CONCRETE CURB PEDESTRIAN REQ'D

5400 5401 5402 5403 5404 5405

5406 5407 5408 5409 5410 5411

5412 5413

3.27% 2% 8.33% 2% 3.10% 4.75%

STH 181 / 76TH ST

PROJECT NO: 2140-08-73	HWY: STH 181	COUNTY: MILWAUKEE	CURB RAMP DETAILS - PRIVATE RD (STA. 264+03 LT) NW	SHEET 94	E

DATA TABLE						
POINT #	NORTHING	EASTING	STATION	OFFSET	ELEVATION	REMARK
5500	354448.06	580660.78	274+46.62	-72.5	708.82	
5501	354453.06	580660.76	274+51.45	-73.0	708.78	
5502	354448.09	580668.66	274+47.46	-64.7	708.27	
5503	354453.13	580668.69	274+52.35	-65.2	708.17	
5504	354458.79	580668.61	274+57.82	-65.8	707.90	BOC
5505	354448.18	580673.73	274+48.06	-59.6	708.21	
5506	354453.09	580673.69	274+52.82	-60.2	708.11	
5507	354457.09	580673.69	274+56.71	-60.6	707.92	BOC
5508	354431.74	580672.93	274+32.00	-58.7	708.63	
5509	354437.71	580673.48	274+37.86	-58.8	708.37	
5510	354442.69	580673.93	274+42.75	-58.9	708.35	
5511	354448.19	580674.43	274+48.14	-58.9	708.23	
5512	354431.24	580677.92	274+31.99	-53.7	708.68	
5513	354437.21	580678.46	274+37.86	-53.8	708.27	
5514	354442.19	580678.91	274+42.76	-53.8	708.25	
5515	354436.78	580682.73	274+37.87	-49.5	708.07	BOC
5516	354441.77	580683.12	274+42.77	-49.6	708.05	BOC

NOTE:

SEE STANDARD DETAIL DRAWING CURB RAMPS TYPES 2 AND 3 FOR FURTHER DETAILS.

LEGEND

- PROPOSED SIGNAL PULL BOX
- PROPOSED SIGNAL POLE
- PROPOSED MANHOLE
- PROPOSED INLET
- CURB RAMP DETECTABLE WARNING FIELD YELLOW
- PROPOSED SIGN POLE

GLENBROOK RD.

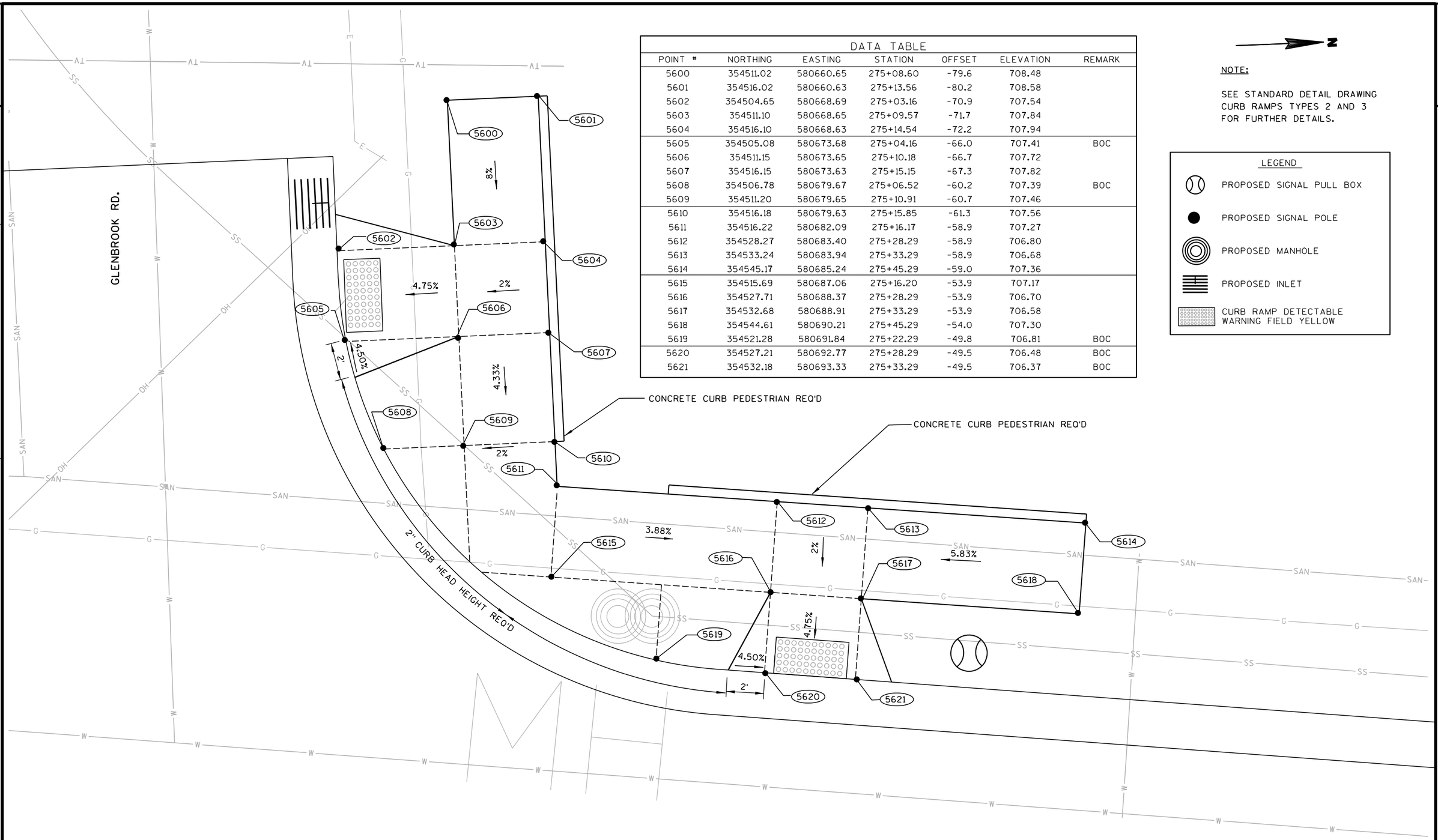
CONCRETE CURB PEDESTRIAN REQ'D

2" CURB HEAD HEIGHT REQ'D

STH 181 / 76TH ST

PROJECT NO: 2140-08-73	HWY: STH 181	COUNTY: MILWAUKEE	CURB RAMP DETAILS - GLENBROOK RD. SW	SHEET 95	E

FILE NAME : s:\@sai\051--100\089\099\micros\design\0873\021255_pd.dgn PLOT DATE : 7/30/2007 PLOT BY : $$...plotuser...$$ PLOT NAME : PLOT SCALE : $$.....plotscale.....$$



DATA TABLE						
POINT #	NORTHING	EASTING	STATION	OFFSET	ELEVATION	REMARK
5600	354511.02	580660.65	275+08.60	-79.6	708.48	
5601	354516.02	580660.63	275+13.56	-80.2	708.58	
5602	354504.65	580668.69	275+03.16	-70.9	707.54	
5603	354511.10	580668.65	275+09.57	-71.7	707.84	
5604	354516.10	580668.63	275+14.54	-72.2	707.94	
5605	354505.08	580673.68	275+04.16	-66.0	707.41	BOC
5606	354511.15	580673.65	275+10.18	-66.7	707.72	
5607	354516.15	580673.63	275+15.15	-67.3	707.82	
5608	354506.78	580679.67	275+06.52	-60.2	707.39	BOC
5609	354511.20	580679.65	275+10.91	-60.7	707.46	
5610	354516.18	580679.63	275+15.85	-61.3	707.56	
5611	354516.22	580682.09	275+16.17	-58.9	707.27	
5612	354528.27	580683.40	275+28.29	-58.9	706.80	
5613	354533.24	580683.94	275+33.29	-58.9	706.68	
5614	354545.17	580685.24	275+45.29	-59.0	707.36	
5615	354515.69	580687.06	275+16.20	-53.9	707.17	
5616	354527.71	580688.37	275+28.29	-53.9	706.70	
5617	354532.68	580688.91	275+33.29	-53.9	706.58	
5618	354544.61	580690.21	275+45.29	-54.0	707.30	
5619	354521.28	580691.84	275+22.29	-49.8	706.81	BOC
5620	354527.21	580692.77	275+28.29	-49.5	706.48	BOC
5621	354532.18	580693.33	275+33.29	-49.5	706.37	BOC

N

NOTE:

SEE STANDARD DETAIL DRAWING CURB RAMPS TYPES 2 AND 3 FOR FURTHER DETAILS.

LEGEND

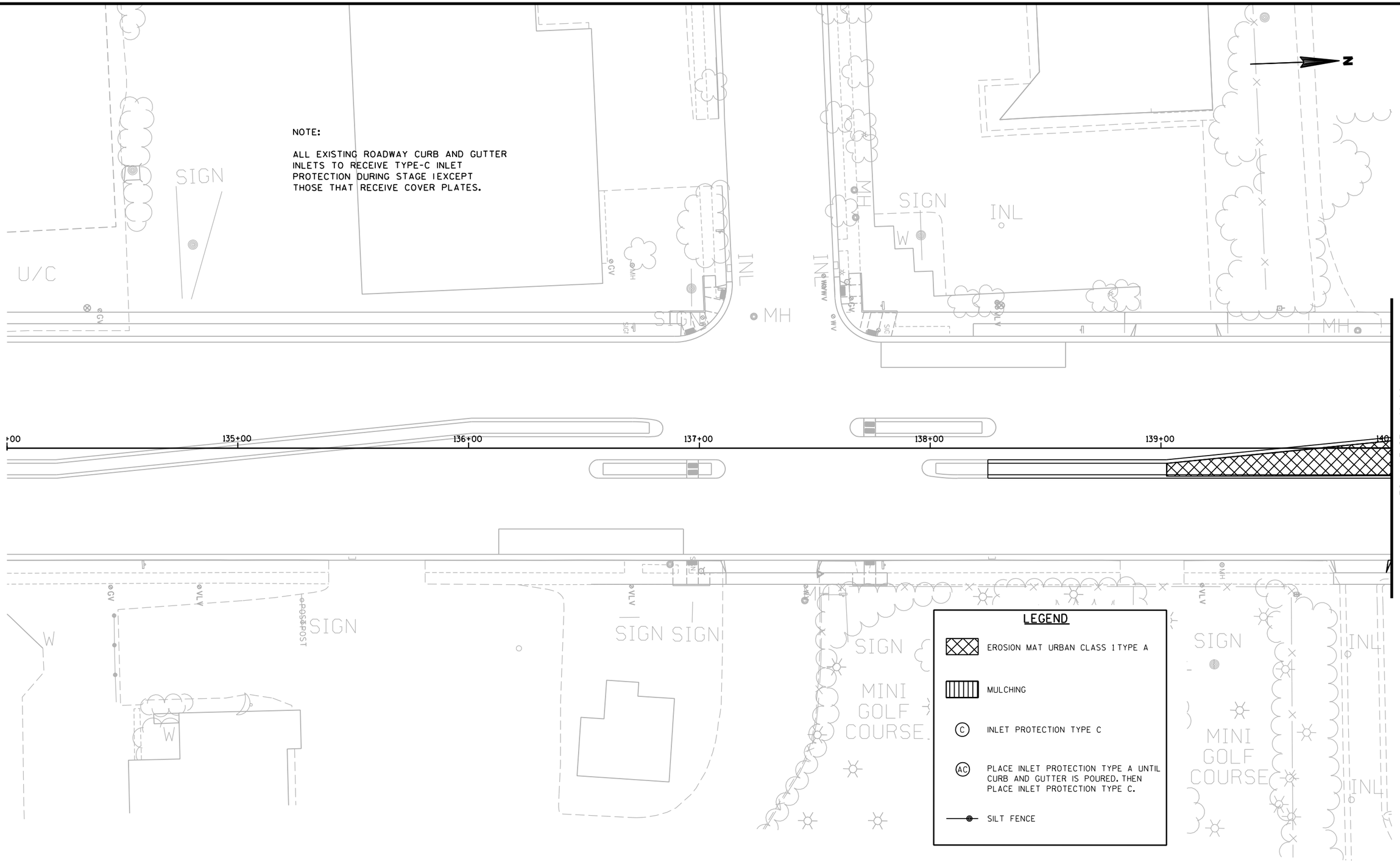
- PROPOSED SIGNAL PULL BOX
- PROPOSED SIGNAL POLE
- PROPOSED MANHOLE
- PROPOSED INLET
- CURB RAMP DETECTABLE WARNING FIELD YELLOW

2

PROJECT NO: 2140-08-73	HWY: STH 181	COUNTY: MILWAUKEE	CURB RAMP DETAILS - GLENBROOK RD. NW	SHEET 96	E

NOTE:

ALL EXISTING ROADWAY CURB AND GUTTER INLETS TO RECEIVE TYPE-C INLET PROTECTION DURING STAGE IEXCEPT THOSE THAT RECEIVE COVER PLATES.



PROJECT NO: 2140-08-73	HWY: STH 181	COUNTY: MILWAUKEE	EROSION CONTROL	SHEET 97	E

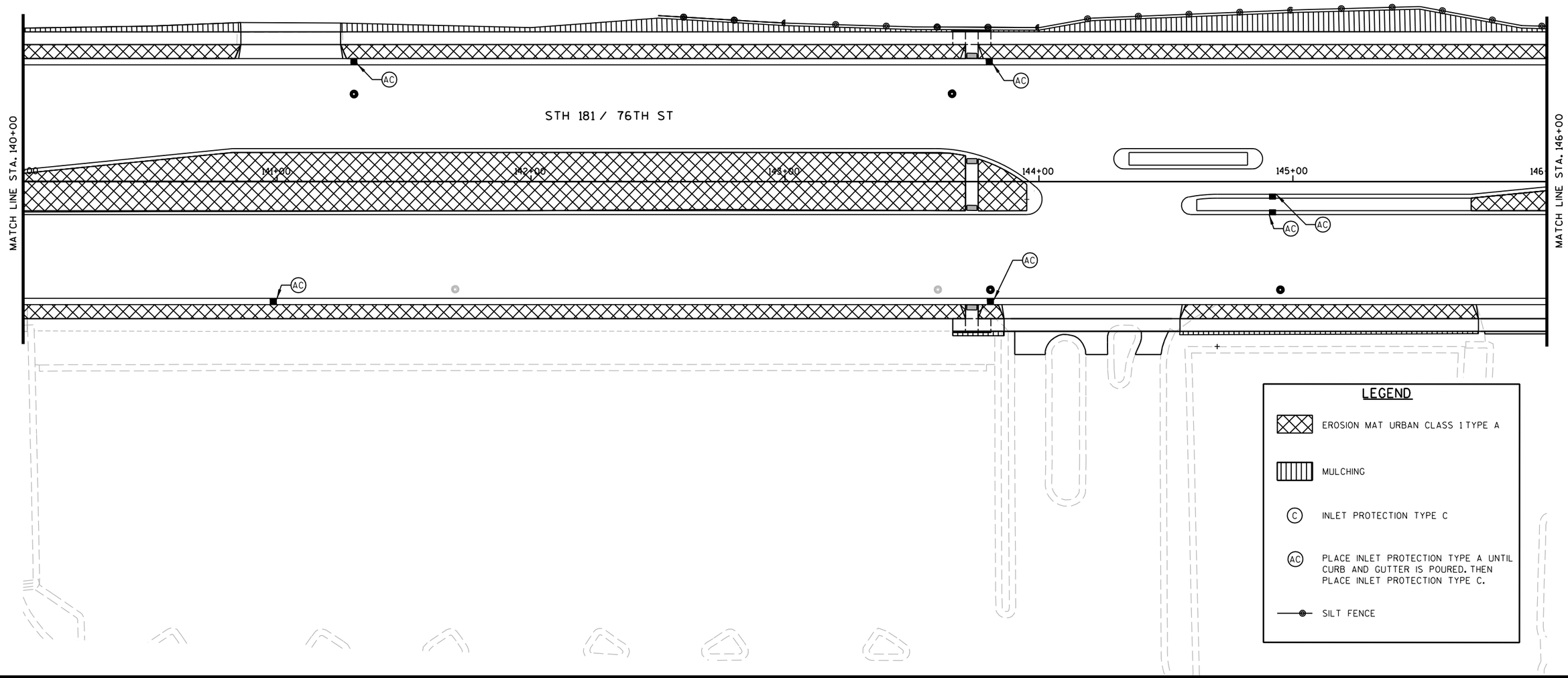
2

2

N

NOTE:

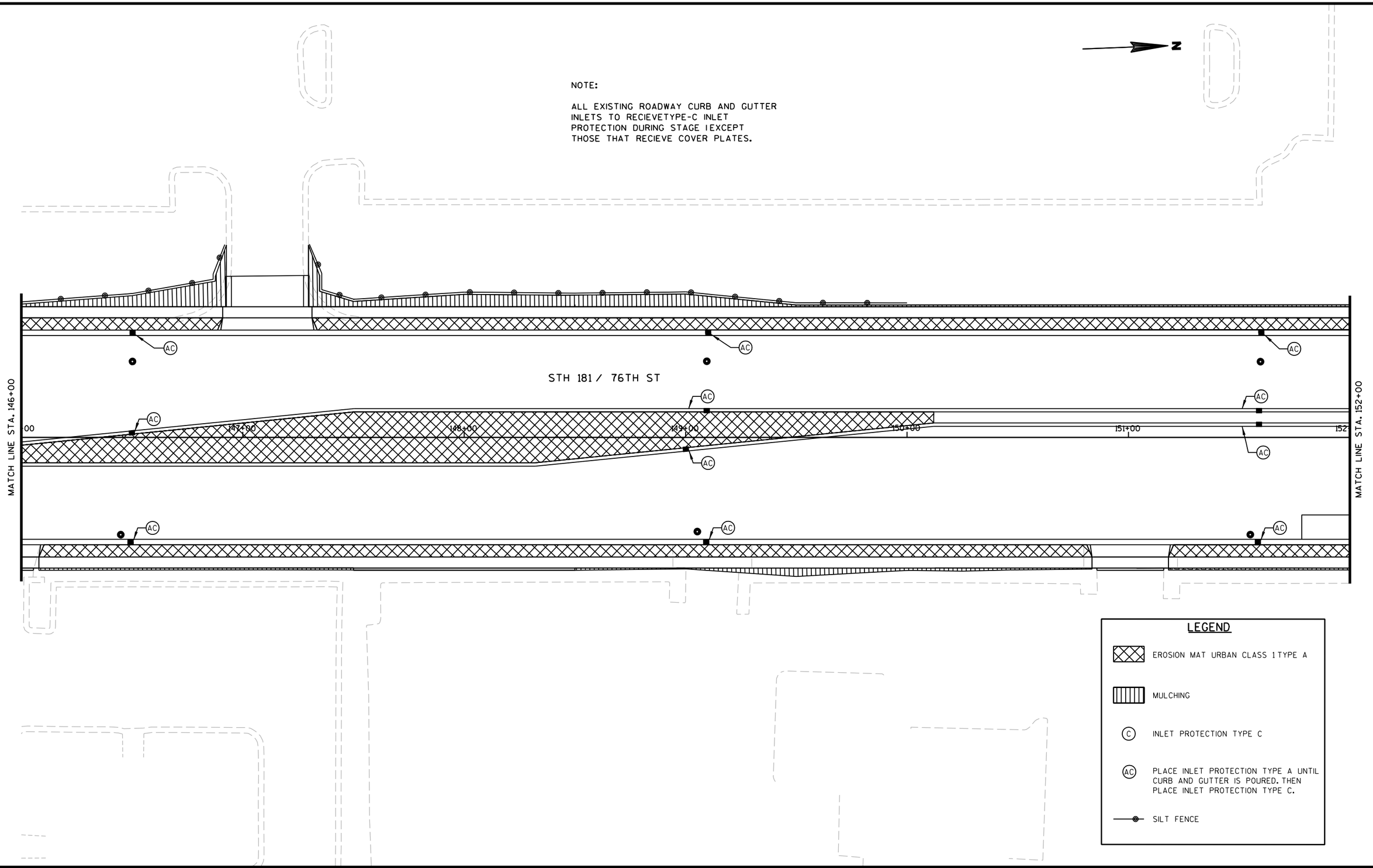
ALL EXISTING ROADWAY CURB AND GUTTER INLETS TO RECIEVE TYPE-C INLET PROTECTION DURING STAGE 1EXCEPT THOSE THAT RECIEVE COVER PLATES.



PROJECT NO: 2140-08-73	HWY: STH 181	COUNTY: MILWAUKEE	EROSION CONTROL	SHEET 98	E

NOTE:

ALL EXISTING ROADWAY CURB AND GUTTER INLETS TO RECIEVETYPE-C INLET PROTECTION DURING STAGE IEXCEPT THOSE THAT RECIEVE COVER PLATES.



PROJECT NO: 2140-08-73	HWY: STH 181	COUNTY: MILWAUKEE	EROSION CONTROL	SHEET 99	E

2

2

N

CALUMET RD.

11+00

NOTE:

ALL EXISTING ROADWAY CURB AND GUTTER INLET TO RECEIVE TYPE-C INLET PROTECTION DURING STAGE IEXCEPT THOSE THAT RECEIVE COVER PLATES.

STH 181 / 76TH ST

MATCH LINE STA. 152+00

153+00

10+00

154+00

155+00

156+00

157+00

158

MATCH LINE STA. 158+00

AC

11+00

12

LEGEND

- EROSION MAT URBAN CLASS 1 TYPE A
- MULCHING
- (C) INLET PROTECTION TYPE C
- (AC) PLACE INLET PROTECTION TYPE A UNTIL CURB AND GUTTER IS POURED. THEN PLACE INLET PROTECTION TYPE C.
- SILT FENCE

PROJECT NO: 2140-08-73	HWY: STH 181	COUNTY: MILWAUKEE	EROSION CONTROL	SHEET 100	E

FILE NAME : s:\@sai\051--100\089\099\micros\design\0873\022004_ec.dgn PLOT DATE : 10/12/2007 PLOT BY : $$...plotuser...$$ PLOT NAME : PLOT SCALE : $$.....plotscale.....$$

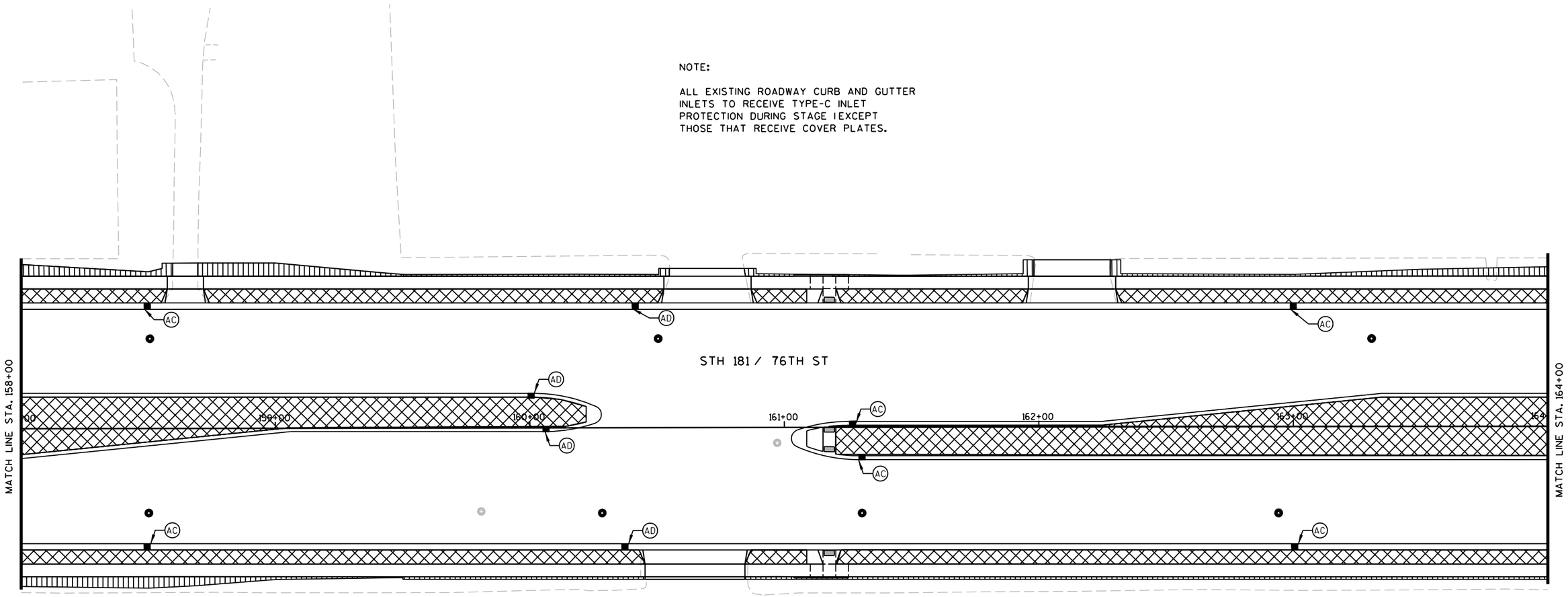
WISDOT/CADDS SHEET 42

2

N

NOTE:

ALL EXISTING ROADWAY CURB AND GUTTER INLETS TO RECEIVE TYPE-C INLET PROTECTION DURING STAGE 1 EXCEPT THOSE THAT RECEIVE COVER PLATES.

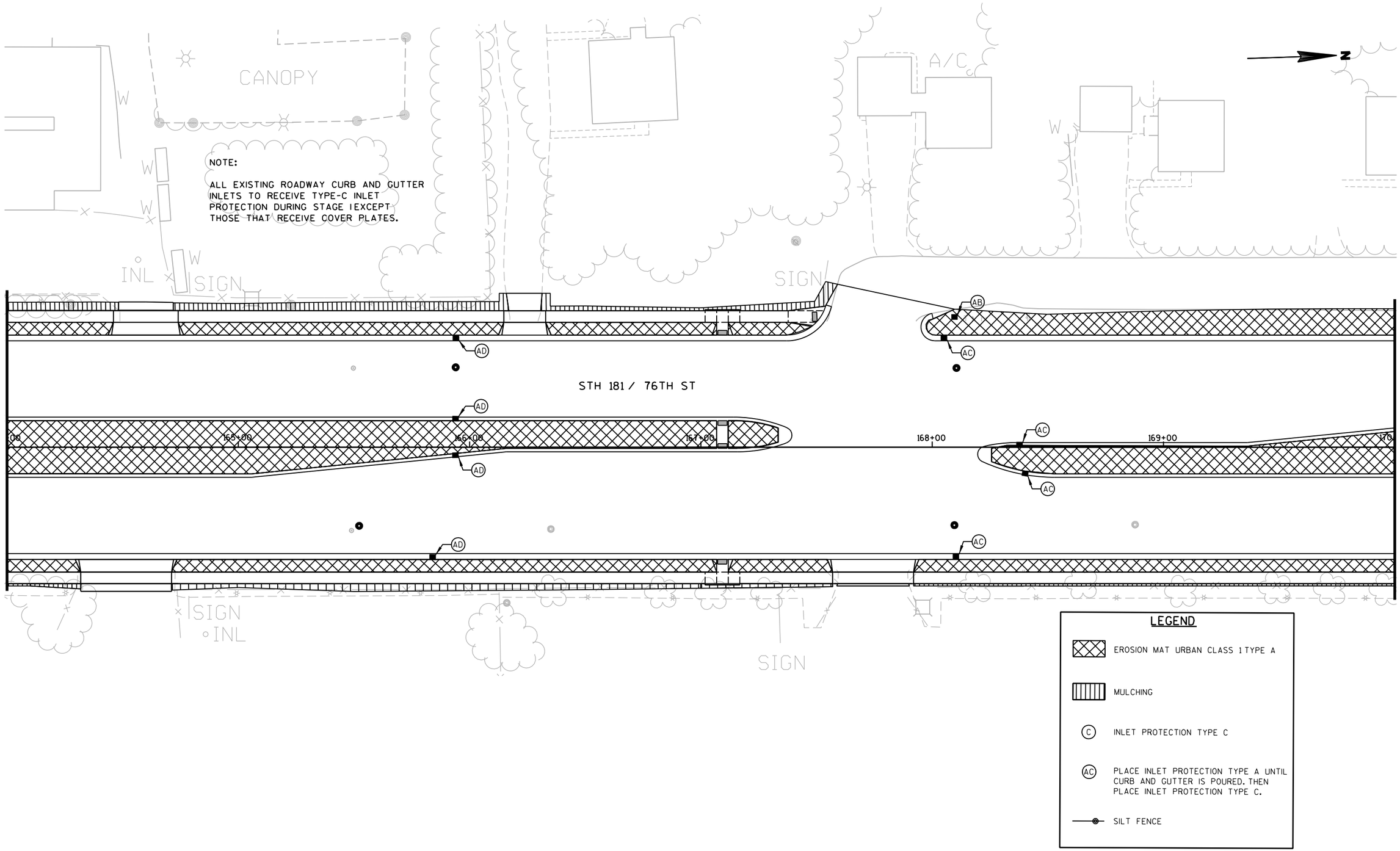


LEGEND

- EROSION MAT URBAN CLASS 1 TYPE A
- MULCHING
- (C) INLET PROTECTION TYPE C
- (AC) PLACE INLET PROTECTION TYPE A UNTIL CURB AND GUTTER IS POURED. THEN PLACE INLET PROTECTION TYPE C.
- SILT FENCE

PROJECT NO: 2140-08-73	HWY: STH 181	COUNTY: MILWAUKEE	EROSION CONTROL	SHEET 101	E

2



LEGEND

- EROSION MAT URBAN CLASS 1 TYPE A
- MULCHING
- (C) INLET PROTECTION TYPE C
- (AC) PLACE INLET PROTECTION TYPE A UNTIL CURB AND GUTTER IS POURED. THEN PLACE INLET PROTECTION TYPE C.
- SILT FENCE

PROJECT NO: 2140-08-73	HWY: STH 181	COUNTY: MILWAUKEE	EROSION CONTROL	SHEET 102	E

2

N

LOITA AVE.

NOTE:

ALL EXISTING ROADWAY CURB ANG GUTTER INLETS TO RECEIVE TYPE-C INLET PROTECTION DURING STAGE IEXCEPT THOSE THAT RECEIVE COVER PLATES.

8+00'F'

9+00'F'

7+00

7+00+11

AC

STH 181 / 76TH ST

MATCH LINE STA. 170+00

170+00

171+00

172+00

173+00

174+00

175+00

176

MATCH LINE STA. 176+00

LEGEND

- EROSION MAT URBAN CLASS 1 TYPE A
- MULCHING
- (C) INLET PROTECTION TYPE C
- (AC) PLACE INLET PROTECTION TYPE A UNTIL CURB AND GUTTER IS POURED. THEN PLACE INLET PROTECTION TYPE C.
- SILT FENCE

PROJECT NO: 2140-08-73	HWY: STH 181	COUNTY: MILWAUKEE	EROSION CONTROL	SHEET 103	E

NOTE:

ALL EXISTING ROADWAY CURB AND GUTTER INLETS TO RECEIVE TYPE-C INLET PROTECTION DURING STAGE 1EXCEPT THOSE THAT RECEIVE COVER PLATES.

N

BRADLEY RD.

STH 181 / 76TH ST

MATCH LINE STA. 176+00

177+00

178+00

179+00

180+00

181+00

MATCH LINE STA. 182+00

18.00+11

18.00+10

18.00+11

AC

AD

LEGEND

- EROSION MAT URBAN CLASS 1 TYPE A
- MULCHING
- (C) INLET PROTECTION TYPE C
- (AC) PLACE INLET PROTECTION TYPE A UNTIL CURB AND GUTTER IS POURED. THEN PLACE INLET PROTECTION TYPE C.
- SILT FENCE

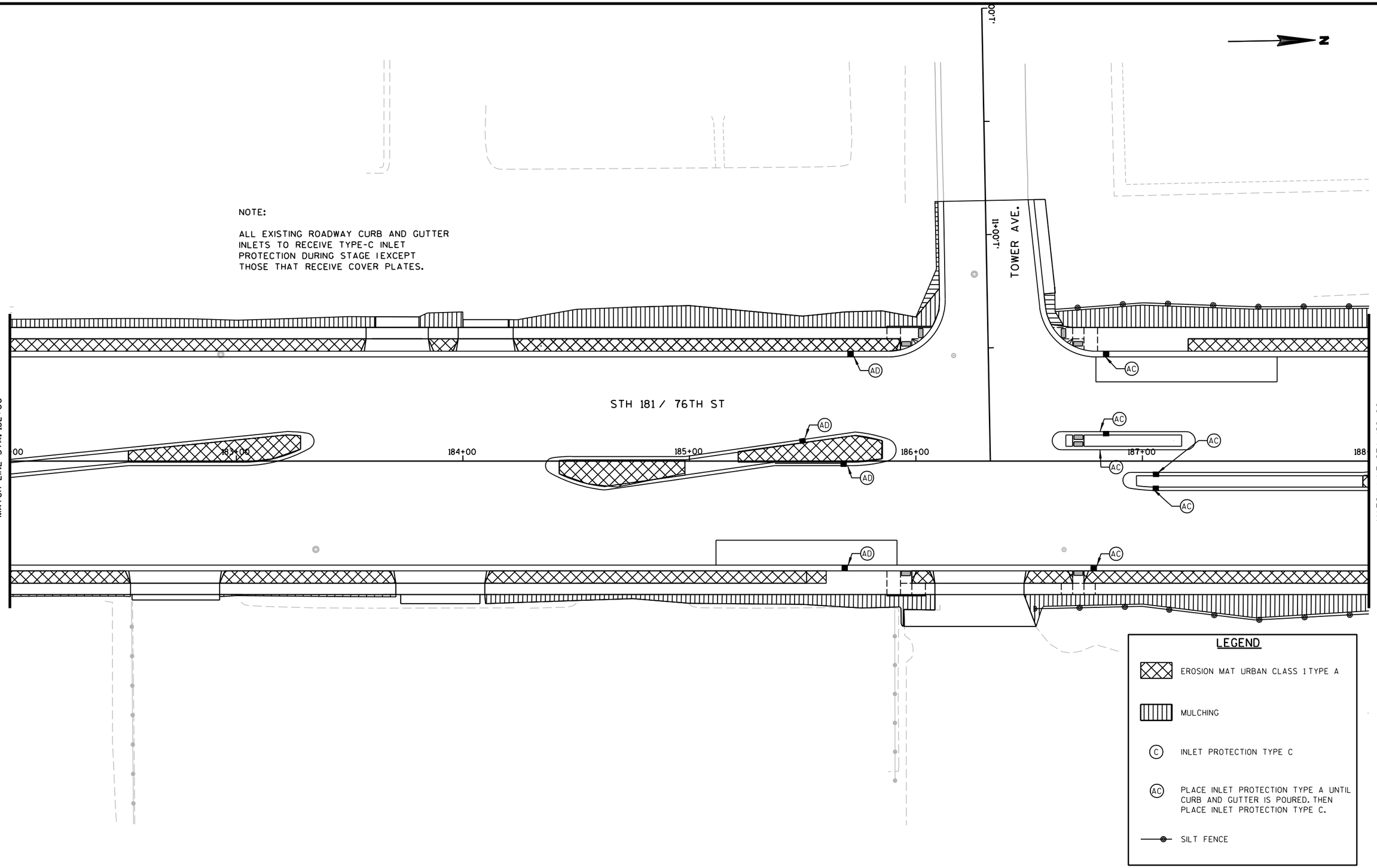
PROJECT NO: 2140-08-73	HWY: STH 181	COUNTY: MILWAUKEE	EROSION CONTROL	SHEET 104	E

2

2

NOTE:

ALL EXISTING ROADWAY CURB AND GUTTER INLETS TO RECEIVE TYPE-C INLET PROTECTION DURING STAGE 1EXCEPT THOSE THAT RECEIVE COVER PLATES.

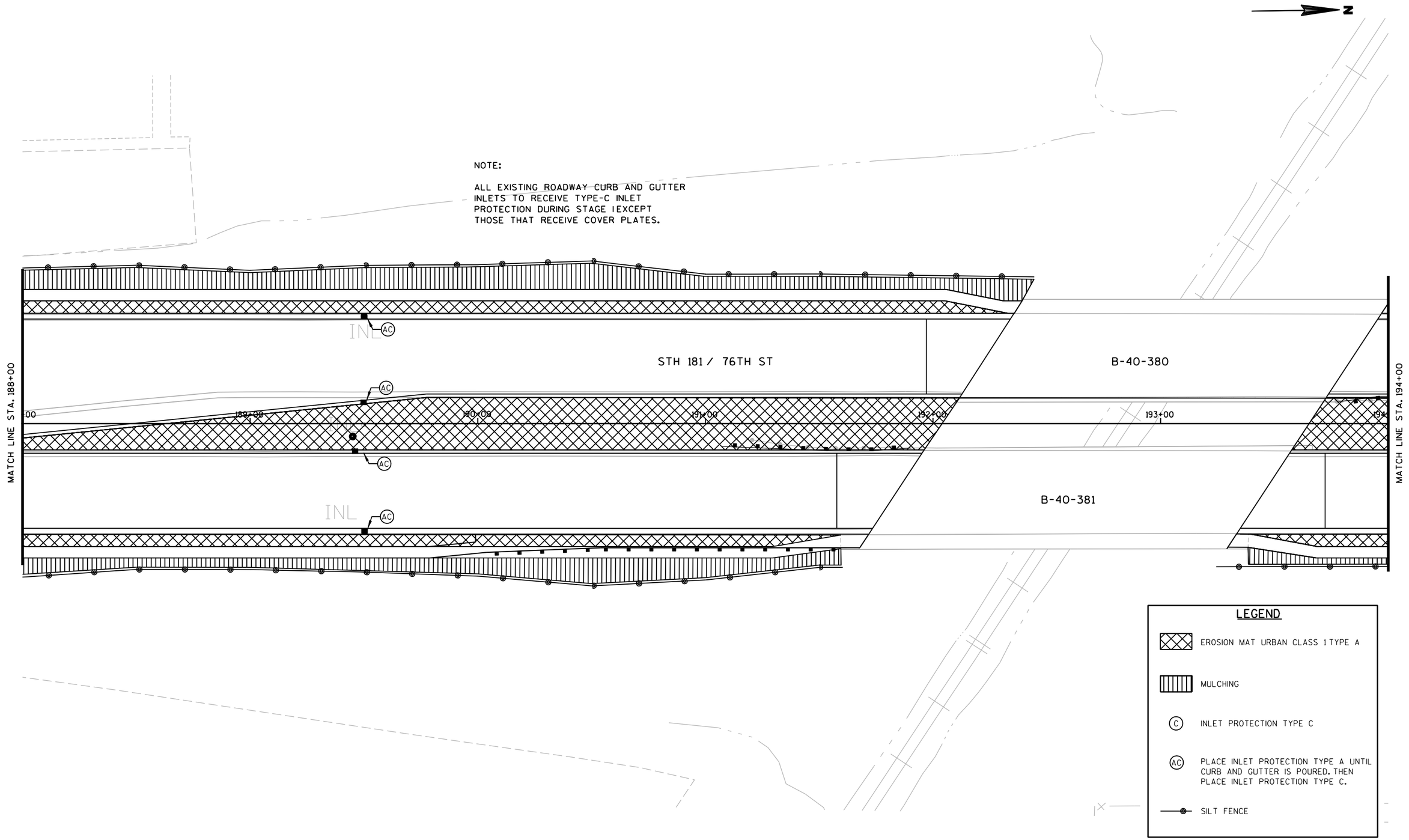


PROJECT NO: 2140-08-73	HWY: STH 181	COUNTY: MILWAUKEE	EROSION CONTROL	SHEET 105	E

2

NOTE:

ALL EXISTING ROADWAY CURB AND GUTTER INLETS TO RECEIVE TYPE-C INLET PROTECTION DURING STAGE IEXCEPT THOSE THAT RECEIVE COVER PLATES.



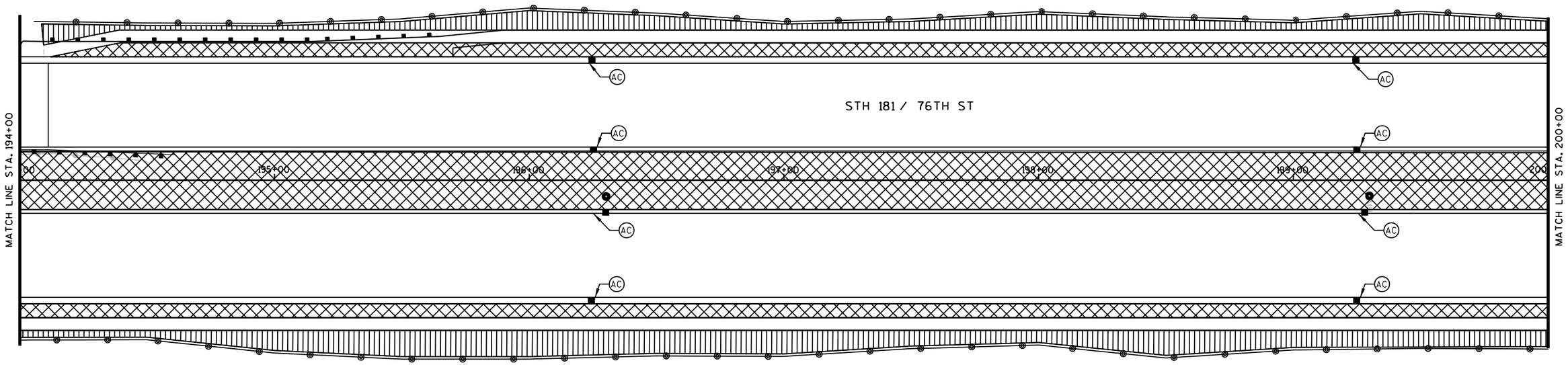
PROJECT NO: 2140-08-73	HWY: STH 181	COUNTY: MILWAUKEE	EROSION CONTROL	SHEET 106	E

2

N

NOTE:

ALL EXISTING ROADWAY CURB AND GUTTER INLETS TO RECEIVE TYPE-C INLET PROTECTION DURING STAGE 1EXCEPT THOSE THAT RECEIVE COVER PLATES.



LEGEND

- EROSION MAT URBAN CLASS 1TYPE A
- MULCHING
- (C) INLET PROTECTION TYPE C
- (AC) PLACE INLET PROTECTION TYPE A UNTIL CURB AND GUTTER IS POURED. THEN PLACE INLET PROTECTION TYPE C.
- SILT FENCE

PROJECT NO: 2140-08-73	HWY: STH 181	COUNTY: MILWAUKEE	EROSION CONTROL	SHEET 107	E

2

2

NOTE:

ALL EXISTING ROADWAY CURN AND GUTTER INLETS TO RECEIVE TYPE-C INLET PROTECTION DURING STAGE IEXCEPT THOSE THAT RECEIVE COVER PLATES.

N

SERVITE DR.

STH 181 / 76TH ST

MATCH LINE STA. 200+00

MATCH LINE STA. 206+00

281+00

202+00

203+00

204+00

205+00

206

11+00

13+00

DEAN RD.

AC

LEGEND

- EROSION MAT URBAN CLASS 1TYPE A
- MULCHING
- (C) INLET PROTECTION TYPE C
- (AC) PLACE INLET PROTECTION TYPE A UNTIL CURB AND GUTTER IS POURED. THEN PLACE INLET PROTECTION TYPE C.
- SILT FENCE

PROJECT NO: 2140-08-73	HWY: STH 181	COUNTY: MILWAUKEE	EROSION CONTROL	SHEET	E

FILE NAME : s:\@sai\051--100\089\099\micros\design\0873\022012_ec.dgn PLOT DATE : 10/12/2007 PLOT BY : $$...plotuser...$$ PLOT NAME : PLOT SCALE : $$.....plotscale.....$$

2

N

LEGEND

- EROSION MAT URBAN CLASS 1 TYPE A
- MULCHING
- (C) INLET PROTECTION TYPE C
- (AC) PLACE INLET PROTECTION TYPE A UNTIL CURB AND GUTTER IS POURED. THEN PLACE INLET PROTECTION TYPE C.
- SILT FENCE

NOTE:

ALL EXISTING ROADWAY CURB AND GUTTER INLETS TO RECEIVE TYPE-C INLET PROTECTION DURING STAGE 1 EXCEPT THOSE THAT RECEIVE COVER PLATES.

SERVITE DR.

MATCH LINE STA. 206+00

STH 181 / 76TH ST

207+00

208+00

209+00

210+00

211+00

MATCH LINE STA. 212+00

DEAN RD.

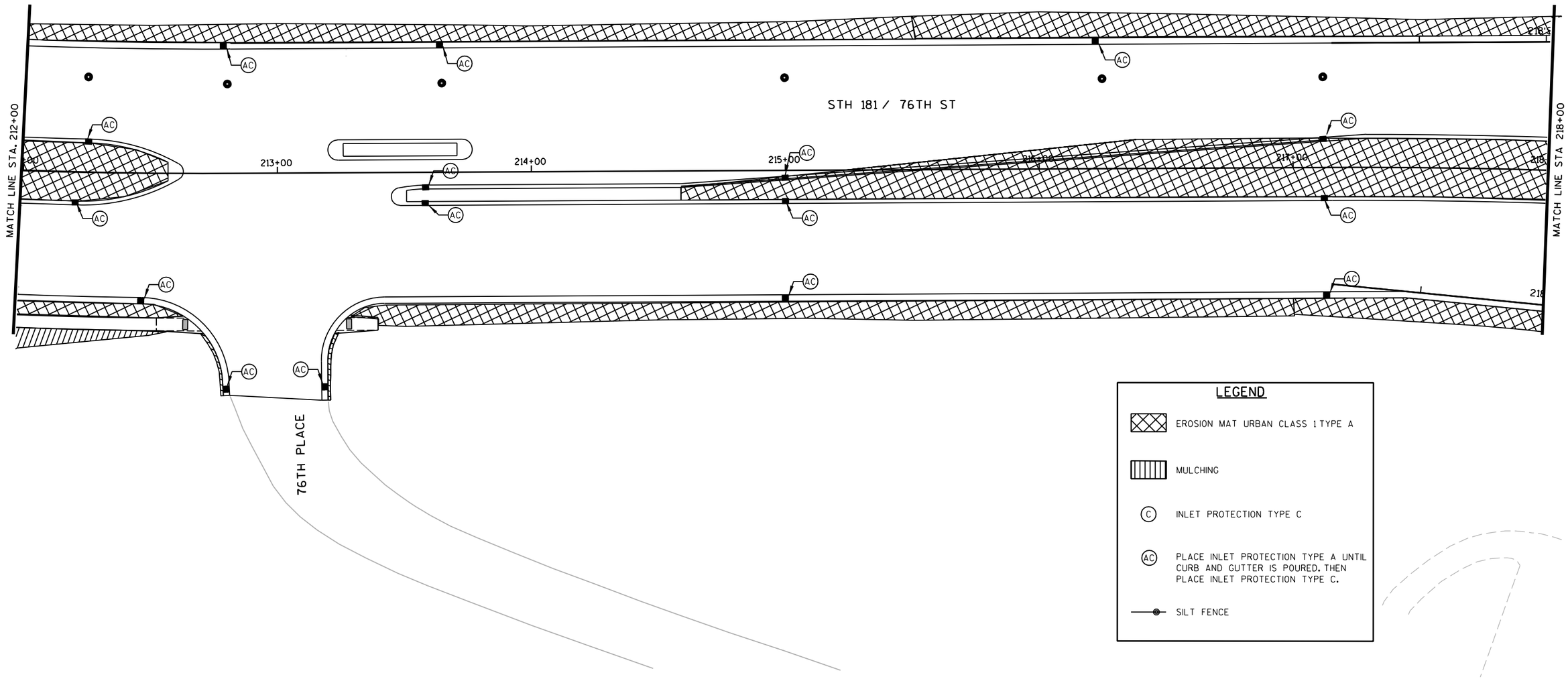
PROJECT NO: 2140-08-73	HWY: STH 181	COUNTY: MILWAUKEE	EROSION CONTROL	SHEET 109	E

2

2

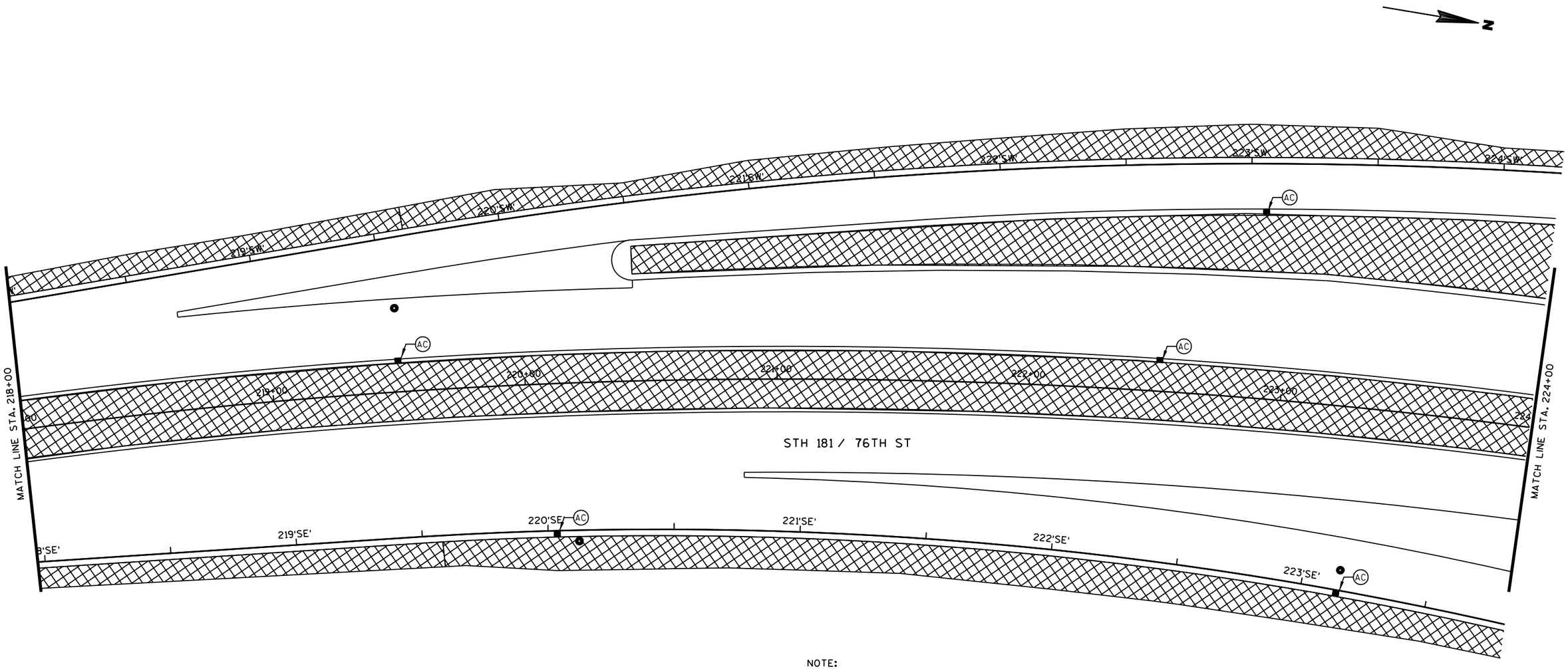
NOTE:

ALL EXISTING ROADWAY CURB AND GUTTER INLETS TO RECEIVE TYPE-C INLET PROTECTION DURING STAGE IEXCEPT THOSE THAT RECEIVE COVER PLATES.



PROJECT NO: 2140-08-73	HWY: STH 181	COUNTY: MILWAUKEE	EROSION CONTROL	SHEET 110	E

2



NOTE:

ALL EXISTING ROADWAY CURB ABD GUTTER INLETS TO RECEIVE TYPE-C INLET PROTECTION DURING STAGE 1EXCEPT THOSE THAT RECEIVE COVER PLATES.

LEGEND

- EROSION MAT URBAN CLASS 1 TYPE A
- MULCHING
- (C) INLET PROTECTION TYPE C
- (AC) PLACE INLET PROTECTION TYPE A UNTIL CURB AND GUTTER IS POURED. THEN PLACE INLET PROTECTION TYPE C.
- SILT FENCE

PROJECT NO: 2140-08-73	HWY: STH 181	COUNTY: MILWAUKEE	EROSION CONTROL	SHEET 111	E

2

N

MATCH LINE STA. 229+00 'SW'

225'SW'

226'SW'

227'SW'

228'SW'

AB

AC

STH 181 / 76TH ST

PI 225+04.99'SE'

MATCH LINE STA. 224+00

MATCH LINE STA. 230+00

225+00

226+00

227+00

228+00

229+00

224'SE'

225'SE'

226'SE'

227'SE'

228'SE'

MATCH LINE STA. 229+00 SE

LEGEND

- EROSION MAT URBAN CLASS 1 TYPE A
- MULCHING
- (C) INLET PROTECTION TYPE C
- (AC) PLACE INLET PROTECTION TYPE A UNTIL CURB AND GUTTER IS POURED. THEN PLACE INLET PROTECTION TYPE C.
- SILT FENCE

NOTE:

ALL EXISTING ROADWAY CURB AND GUTTER INLETS TO RECEIVE TYPE-C INLET PROTECTION DURING STAGE 1 EXCEPT THOSE THAT RECEIVE COVER PLATES.

PROJECT NO: 2140-08-73	HWY: STH 181	COUNTY: MILWAUKEE	EROSION CONTROL	SHEET 112	E

2

2

N

231'SW

232+00'SW

231+00'SW

BROWN DEER RD & STH 100

121+00'BD'

122+00'BD'

123+00'BD'

234+00'NW

235+00'NW

236+00'NW

NOTE:

ALL EXISTING ROADWAY CURB AND GUTTER INLETS TO RECEIVE TYPE-C INLET PROTECTION DURING STAGE 1EXCEPT THOSE THAT RECEIVE COVER PLATES.

STH 181 / 76TH ST

B-40-404

MATCH LINE STA. 230+00

MATCH LINE STA. 236+00

231+00

232+00

233+00

234+00

235+00

236+00'SE'

232+00'SE'

231+00'SE'

230'SE'

235+00'NE'

LEGEND

- EROSION MAT URBAN CLASS 1 TYPE A
- MULCHING
- (C) INLET PROTECTION TYPE C
- (AC) PLACE INLET PROTECTION TYPE A UNTIL CURB AND GUTTER IS POURED. THEN PLACE INLET PROTECTION TYPE C.
- SILT FENCE

PROJECT NO: 2140-08-73	HWY: STH 181	COUNTY: MILWAUKEE	EROSION CONTROL	SHEET	E

FILE NAME : s:\@sai\051--100\089\099\micros\design\0873\022017_ec.dgn PLOT DATE : 10/12/2007 PLOT BY : $$...plotuser...$$ PLOT NAME : PLOT SCALE : $$.....plotscale.....$$ WISDOT/CADDS SHEET 42

2

NOTE:

ALL EXISTING ROADWAY CURB AND GUTTER INLETS TO RECEIVE TYPE-C INLET PROTECTION DURING STAGE IEXCEPT THOSE THAT RECEIVE COVER PLATES.

MATCH LINE STA. 238+00 NW

MATCH LINE STA. 236+00

MATCH LINE STA. 242+00

STH 181 / 76TH ST

237+00

238+00

239+00

240+00

241+00

242

258'NW

252'NW

240'NW

241'NW

242'NW

AC

AB

239'NE'

240'NE'

241'NE'

MATCH LINE STA. 238+00 NE

LEGEND

- EROSION MAT URBAN CLASS 1 TYPE A
- MULCHING
- (C) INLET PROTECTION TYPE C
- (AC) PLACE INLET PROTECTION TYPE A UNTIL CURB AND GUTTER IS POURED. THEN PLACE INLET PROTECTION TYPE C.
- SILT FENCE

PROJECT NO: 2140-08-73	HWY: STH 181	COUNTY: MILWAUKEE	EROSION CONTROL	SHEET 114	E

2

N

242'NW'
243'NW'
244'NW'
245'NW'
246'NW'
247'NW'

AC
AC
AD
AC

STH 181 / 76TH ST

MATCH LINE STA. 242+00

MATCH LINE STA. 248+00

AC
AD
AB
AD
AC
AD
AC
AC
AD
AD

243+00
244+00
245+00
246+00
247+00

242'NE'
243'NE'

NOTE:

ALL EXISTING ROADWAY CURB AND GUTTER INLETS TO RECEIVE TYPE-C INLET PROTECTION DURING STAGE 1 EXCEPT THOSE THAT RECEIVE COVER PLATES.

LEGEND

- EROSION MAT URBAN CLASS 1 TYPE A
- MULCHING
- (C) INLET PROTECTION TYPE C
- (AC) PLACE INLET PROTECTION TYPE A UNTIL CURB AND GUTTER IS POURED. THEN PLACE INLET PROTECTION TYPE C.
- SILT FENCE

PROJECT NO: 2140-08-73	HWY: STH 181	COUNTY: MILWAUKEE	EROSION CONTROL	SHEET	E

FILE NAME : s:\@sai\051--100\089\099\micros\design\0873\022019_ec.dgn PLOT DATE : 10/12/2007 PLOT BY : $$...plotuser...$$ PLOT NAME : PLOT SCALE : $$.....plotscale.....$$ WISDOT/CADDS SHEET 42

2

2

PRIVATE ROAD

N. 12TH ST.

STH 181 / 76TH ST

MATCH LINE STA. 248+00

MATCH LINE STA. 254+00

248+00 249+00 250+00 251+00 252+00 253+00 254

AC

NOTE:

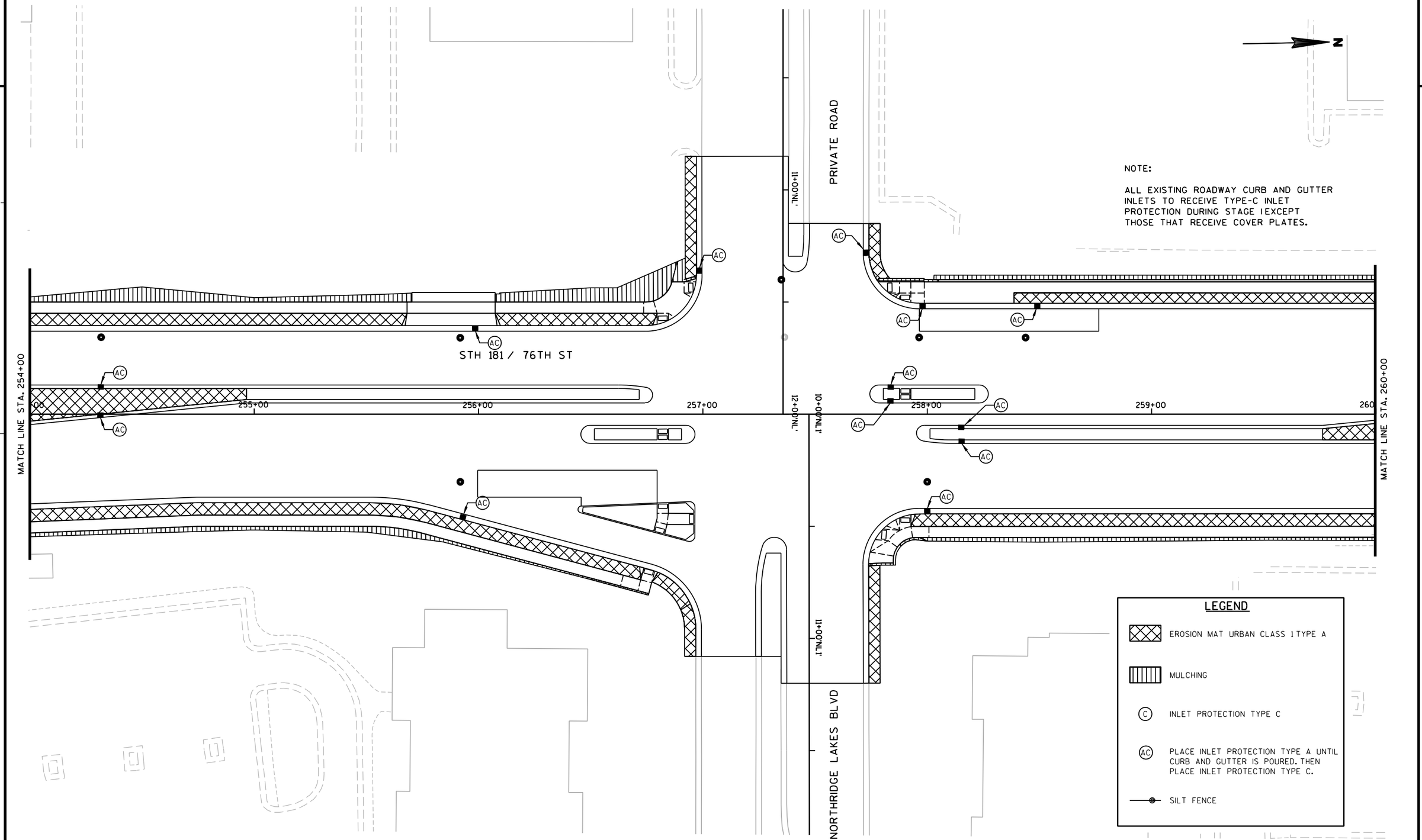
ALL EXISTING ROADWAY CURB AND GUTTER INLETS TO RECEIVE TYPE-C INLET PROTECTION DURING STAGE 1EXCEPT THOSE THAT RECEIVE COVER PLATES.

LEGEND

- EROSION MAT URBAN CLASS 1 TYPE A
- MULCHING
- (C) INLET PROTECTION TYPE C
- (AC) PLACE INLET PROTECTION TYPE A UNTIL CURB AND GUTTER IS POURED. THEN PLACE INLET PROTECTION TYPE C.
- SILT FENCE

PROJECT NO: 2140-08-73	HWY: STH 181	COUNTY: MILWAUKEE	EROSION CONTROL	SHEET 116	E

2



PROJECT NO: 2140-08-73	HWY: STH 181	COUNTY: MILWAUKEE	EROSION CONTROL	SHEET 117	E

2

PRIVATE ROAD

N

NOTE:

ALL EXISTING ROADWAY CURB AND GUTTER INLETS TO RECEIVE TYPE-C INLET PROTECTION DURING STAGE IEXCEPT THOSE THAT RECEIVE COVER PLATES.

STH 181 / 76TH ST

MATCH LINE STA. 260+00

261+00

262+00

263+00

264+00

265+00

MATCH LINE STA. 266+00

AC

AC

AC

AC

LEGEND

- EROSION MAT URBAN CLASS 1 TYPE A
- MULCHING
- (C) INLET PROTECTION TYPE C
- (AC) PLACE INLET PROTECTION TYPE A UNTIL CURB AND GUTTER IS POURED. THEN PLACE INLET PROTECTION TYPE C.
- SILT FENCE

PROJECT NO: 2140-08-73	HWY: STH 181	COUNTY: MILWAUKEE	EROSION CONTROL	SHEET	E

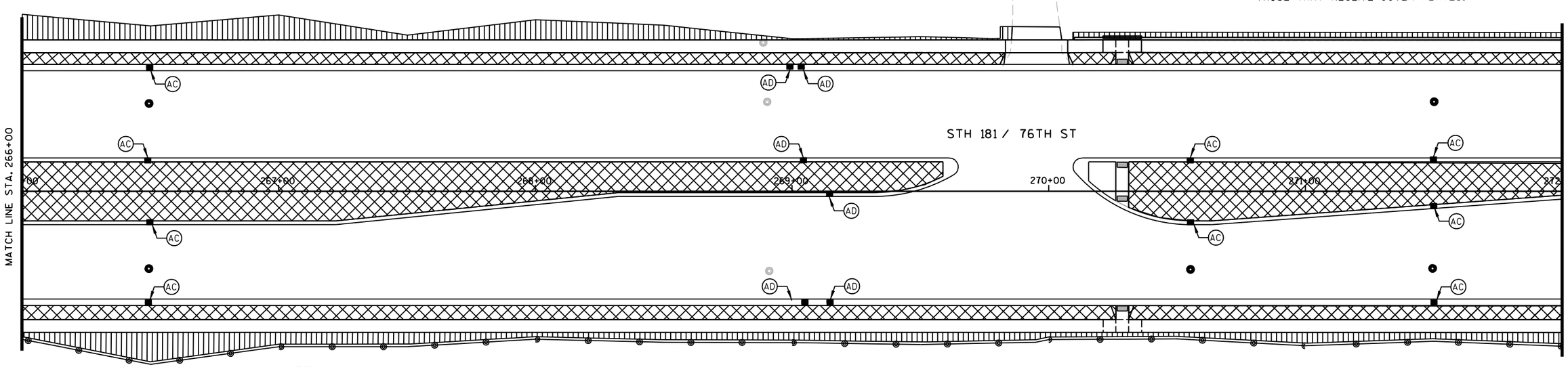
FILE NAME : s:\@sdi\051--100\089\099\micros\design\0873\022022_ec.dgn PLOT DATE : 10/12/2007 PLOT BY : $$...plotuser...$$ PLOT NAME : PLOT SCALE : $$.....plotscale.....$$ WISDOT/CADDS SHEET 42

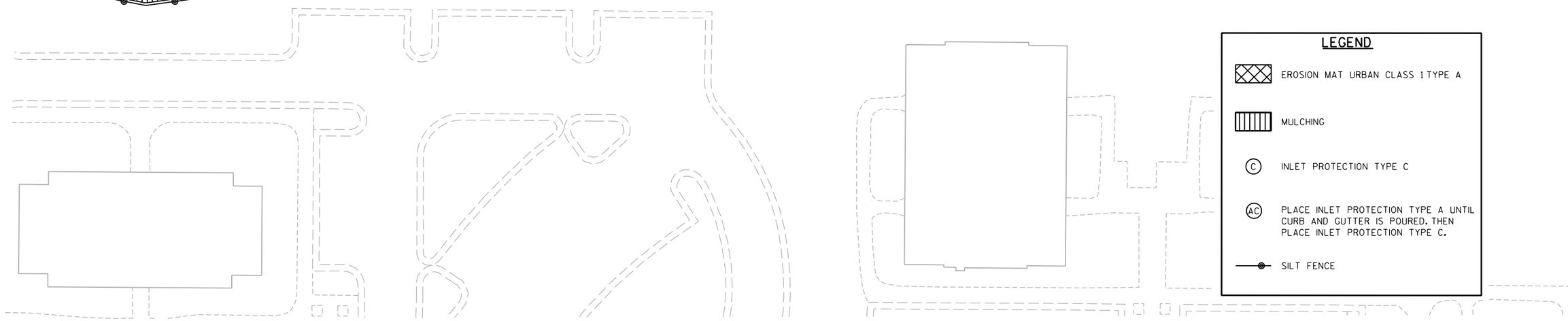
2

N

NOTE:

ALL EXISTING ROADWAY CURB AND GUTTER INLETS TO RECEIVE TYPE-C INLET PROTECTION DURING STAGE 1 EXCEPT THOSE THAT RECEIVE COVER PLATES.





LEGEND

- EROSION MAT URBAN CLASS 1 TYPE A
- MULCHING
- (C) INLET PROTECTION TYPE C
- (AC) PLACE INLET PROTECTION TYPE A UNTIL CURB AND GUTTER IS POURED. THEN PLACE INLET PROTECTION TYPE C.
- SILT FENCE

PROJECT NO: 2140-08-73	HWY: STH 181	COUNTY: MILWAUKEE	EROSION CONTROL	SHEET 119	E

2

N

GLENBROOK RD.

STH 181 / 76TH ST

MATCH LINE STA. 272+00

MATCH LINE STA. 278+00

273+00

274+00

275+00

276+00

277+00

AC

NOTE:

ALL EXISTING ROADWAY CURB AND GUTTER INLETS TO RECEIVE TYPE-C INLET PROTECTION DURING STAGE 1EXCEPT THOSE THAT RECEIVE COVER PLATES.

LEGEND

- EROSION MAT URBAN CLASS 1TYPE A
- MULCHING
- (C) INLET PROTECTION TYPE C
- (AC) PLACE INLET PROTECTION TYPE A UNTIL CURB AND GUTTER IS POURED. THEN PLACE INLET PROTECTION TYPE C.
- SILT FENCE

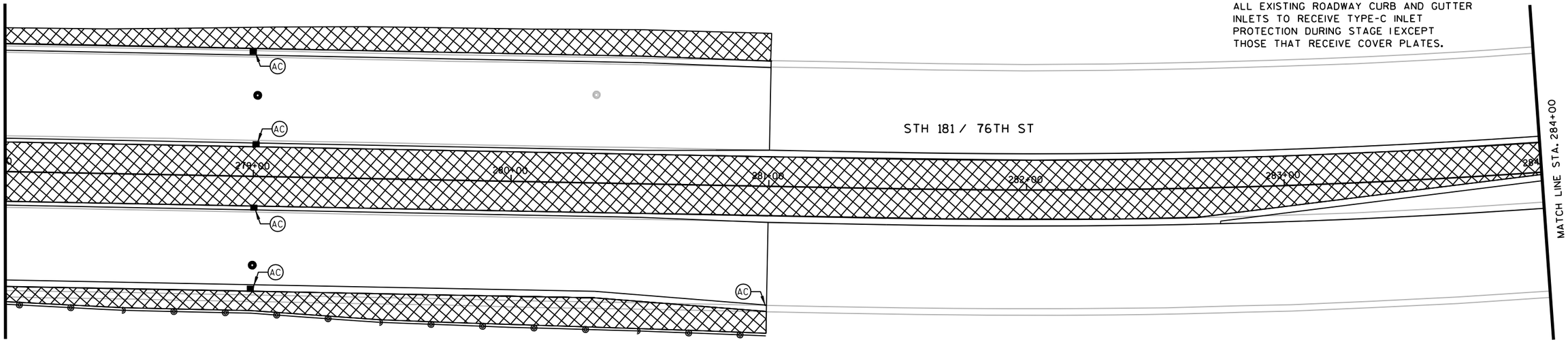
PROJECT NO: 2140-08-73	HWY: STH 181	COUNTY: MILWAUKEE	EROSION CONTROL	SHEET 120	E

2

N

NOTE:

ALL EXISTING ROADWAY CURB AND GUTTER INLETS TO RECEIVE TYPE-C INLET PROTECTION DURING STAGE 1EXCEPT THOSE THAT RECEIVE COVER PLATES.



LEGEND

- EROSION MAT URBAN CLASS 1 TYPE A
- MULCHING
- (C) INLET PROTECTION TYPE C
- (AC) PLACE INLET PROTECTION TYPE A UNTIL CURB AND GUTTER IS POURED. THEN PLACE INLET PROTECTION TYPE C.
- SILT FENCE

PROJECT NO: 2140-08-73	HWY: STH 181	COUNTY: MILWAUKEE	EROSION CONTROL	SHEET 121	E

2

N

W. COUNTY LINE RD

STH 181 / 76TH ST

MATCH LINE STA. 284+00

00

285+00

286+00

287+00

NOTE:

ALL EXISTING ROADWAY CURB AND GUTTER INLETS TO RECEIVE TYPE-C INLET PROTECTION DURING STAGE 1EXCEPT THOSE THAT RECEIVE COVER PLATES.

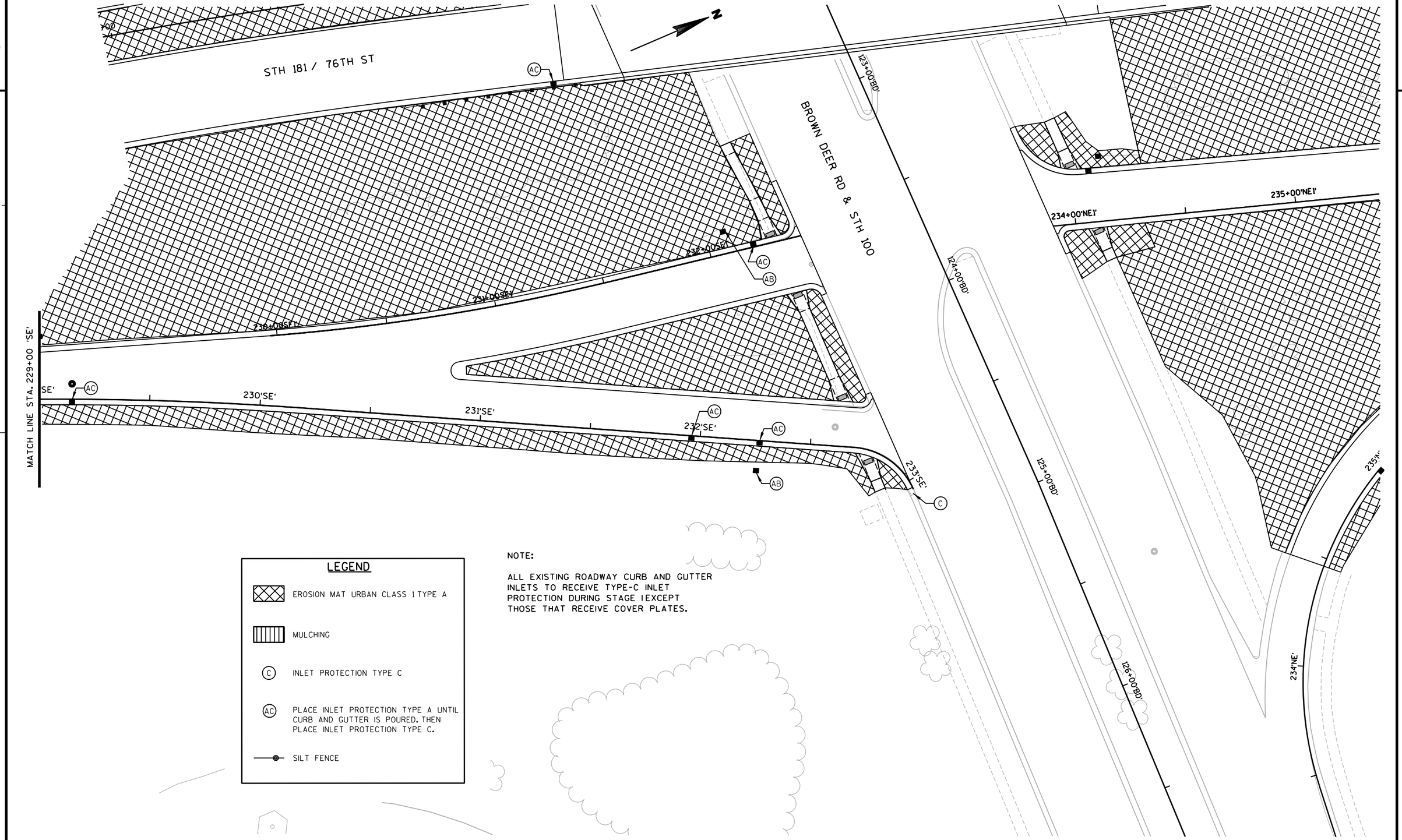
LEGEND

- EROSION MAT URBAN CLASS 1TYPE A
- MULCHING
- (C) INLET PROTECTION TYPE C
- (AC) PLACE INLET PROTECTION TYPE A UNTIL CURB AND GUTTER IS POURED. THEN PLACE INLET PROTECTION TYPE C.
- SILT FENCE

PROJECT NO: 2140-08-73	HWY: STH 181	COUNTY: MILWAUKEE	EROSION CONTROL	SHEET	E

FILE NAME : s:\@sdi\051--100\089\099\micros\design\0873\022026_ec.dgn PLOT DATE : 10/12/2007 PLOT BY : $$...plotuser...$$ PLOT NAME : PLOT SCALE : $$.....plotscale.....$$ WISDOT/CADDS SHEET 42

2



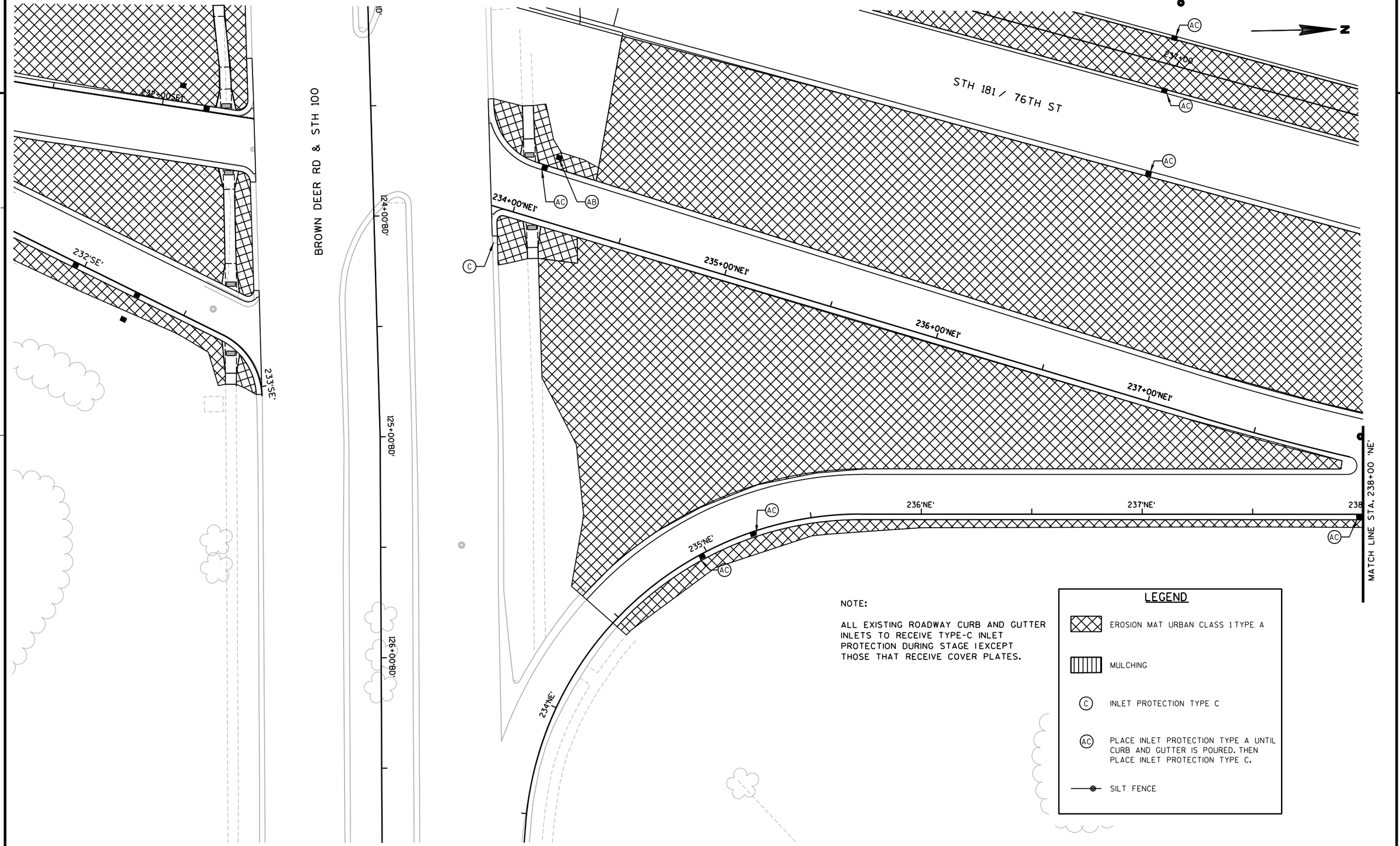
LEGEND

- EROSION MAT URBAN CLASS 1 TYPE A
- MULCHING
- (C) INLET PROTECTION TYPE C
- (AC) PLACE INLET PROTECTION TYPE A UNTIL CURB AND GUTTER IS POURED. THEN PLACE INLET PROTECTION TYPE C.
- SILT FENCE

NOTE:

ALL EXISTING ROADWAY CURB AND GUTTER INLETS TO RECEIVE TYPE-C INLET PROTECTION DURING STAGE 1 EXCEPT THOSE THAT RECEIVE COVER PLATES.

PROJECT NO: 2140-08-73	HWY: STH 181	COUNTY: MILWAUKEE	EROSION CONTROL	SHEET 123	E



PROJECT NO: 2140-08-73	HWY: STH 181	COUNTY: MILWAUKEE	EROSION CONTROL	SHEET 124	E

2

N

MATCH LINE STA. 229+00 'SW'

229+00'SW'

230'SW'

231'SW'

231+00'SW'

232+00'SW'

233'SW'

AC

AB

C

STH 181 / 76TH ST

118+00'BD'

119+00'BD'

120+00'BD'

121+00'BD'

BROWN DEER RD & STH 100

233+00'NW'

234+00'NW'

LEGEND

- EROSION MAT URBAN CLASS 1 TYPE A
- MULCHING
- (C) INLET PROTECTION TYPE C
- (AC) PLACE INLET PROTECTION TYPE A UNTIL CURB AND GUTTER IS POURED. THEN PLACE INLET PROTECTION TYPE C.
- SILT FENCE

NOTE:

ALL EXISTING ROADWAY CURB AND GUTTER INLETS TO RECEIVE TYPE-C INLET PROTECTION DURING STAGE I EXCEPT THOSE THAT RECEIVE COVER PLATES.

PROJECT NO: 2140-08-73	HWY: STH 181	COUNTY: MILWAUKEE	EROSION CONTROL	SHEET 125	E

2

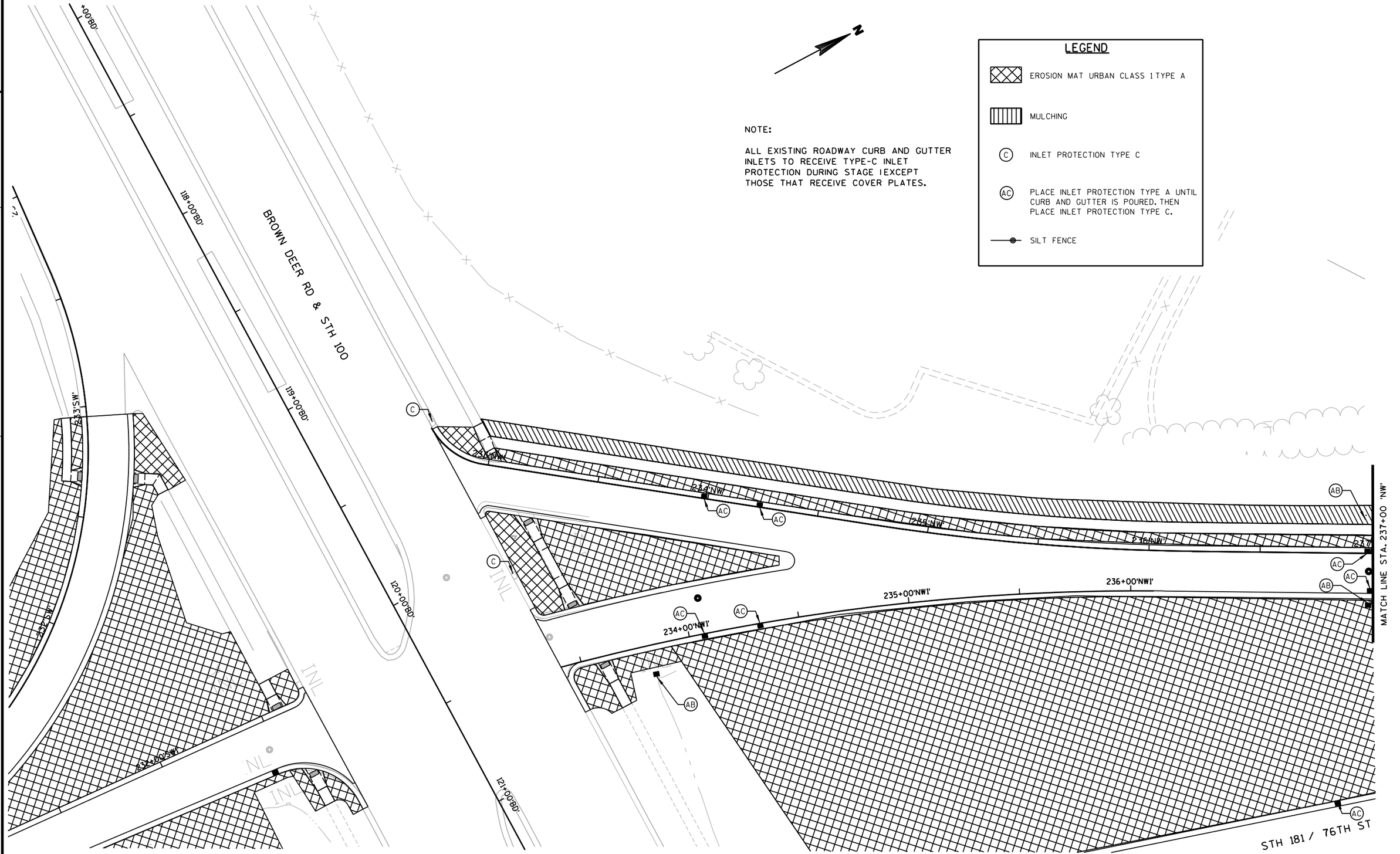
N

NOTE:

ALL EXISTING ROADWAY CURB AND GUTTER INLETS TO RECEIVE TYPE-C INLET PROTECTION DURING STAGE 1EXCEPT THOSE THAT RECEIVE COVER PLATES.

LEGEND

- EROSION MAT URBAN CLASS 1TYPE A
- MULCHING
- (C) INLET PROTECTION TYPE C
- (AC) PLACE INLET PROTECTION TYPE A UNTIL CURB AND GUTTER IS POURED. THEN PLACE INLET PROTECTION TYPE C.
- SILT FENCE



PROJECT NO: 2140-08-73	HWY: STH 181	COUNTY: MILWAUKEE	EROSION CONTROL	SHEET 126	E

SIGN

REMOVING INLET REQ'D

REMOVING STORM SEWER (8") REQ'D

141+30, 47.50 LT
INLET 3-H
I-1.1

REMOVING MANHOLE REQ'D

141+30, 34.40 LT
MANHOLE 1-J
MH-1

STH 181 / 76TH ST

REMOVING INLET REQ'D

143+80, 47.50 LT
INLET 3-H
I-3.1

REMOVING STORM SEWER (8") REQ'D

143+66, 34.57 LT
MANHOLE 1-J
MH-3

144+92, 5.50 RT
INLET 3-H
I-4.2

141+00 142+00 143+00 144+00 145+00 146

REMOVING INLET REQ'D

ABANDONING SEWER (8") REQ'D

ADJUSTING MANHOLE COVER REQ'D

I-1.2 140+98, 47.50 RT
INLET 3-H

REMOVING STORM SEWER (8") REQ'D

REMOVING MANHOLE REQ'D

143+81, 42.54 RT
MANHOLE 1-J
MH-2

I-4.1 144+92, 12.50 RT
INLET 3-H

144+95, 45.40 RT
MANHOLE 1-J
MH-4

REMOVING INLET REQ'D

I-2.1 143+65, 47.50 RT
INLET 3-H

144+95, 45.40 RT
STORM SEWER PIPE
12" DIAMETER
2.75' LENGTH
(CONNECTS TO EXISTING 12" RCP PIPE)

MATCH LINE STA. 146+00

38' - 24" SSPRC
MATCH EXISTING
MH-1
740.79
8' - 21" SSPRC
MATCH EXISTING
734.61

8' - 21" SSPRC
MATCH EXISTING
MH-3
745.53
8' - 18" SSPRC
MATCH EXISTING
737.70
738.52

29' - 24" SSPRC
MATCH EXISTING
MH-2
745.83
8' - 21" SSPRC
MATCH EXISTING
741.77

PROPOSED PROFILE

EXISTING GROUND

I-1.1 I-1.2 MH-1 MH-2 MH-3 I-2.1 I-3.1 I-4.1 I-4.2 MH-4

740.35 740.79 739.68 736.89 736.63 734.61 733.51 733.59
745.53 745.83 745.13 745.42 741.14 740.74 737.70 741.89 741.77
748.52 748.93 748.62 745.50 745.40 744.78 742.59

13' - 12" SSPRC @ 2.0%
2' - 12" SSPRC @ 2.0%
20' - 12" SSPRC @ 2.0%
6' - 12" SSPRC @ 2.0%
5' - 12" SSPRC @ 2.0%
31' - 12" SSPRC @ 2.0%
12" 2.75' - SSPRC @ 2.0%

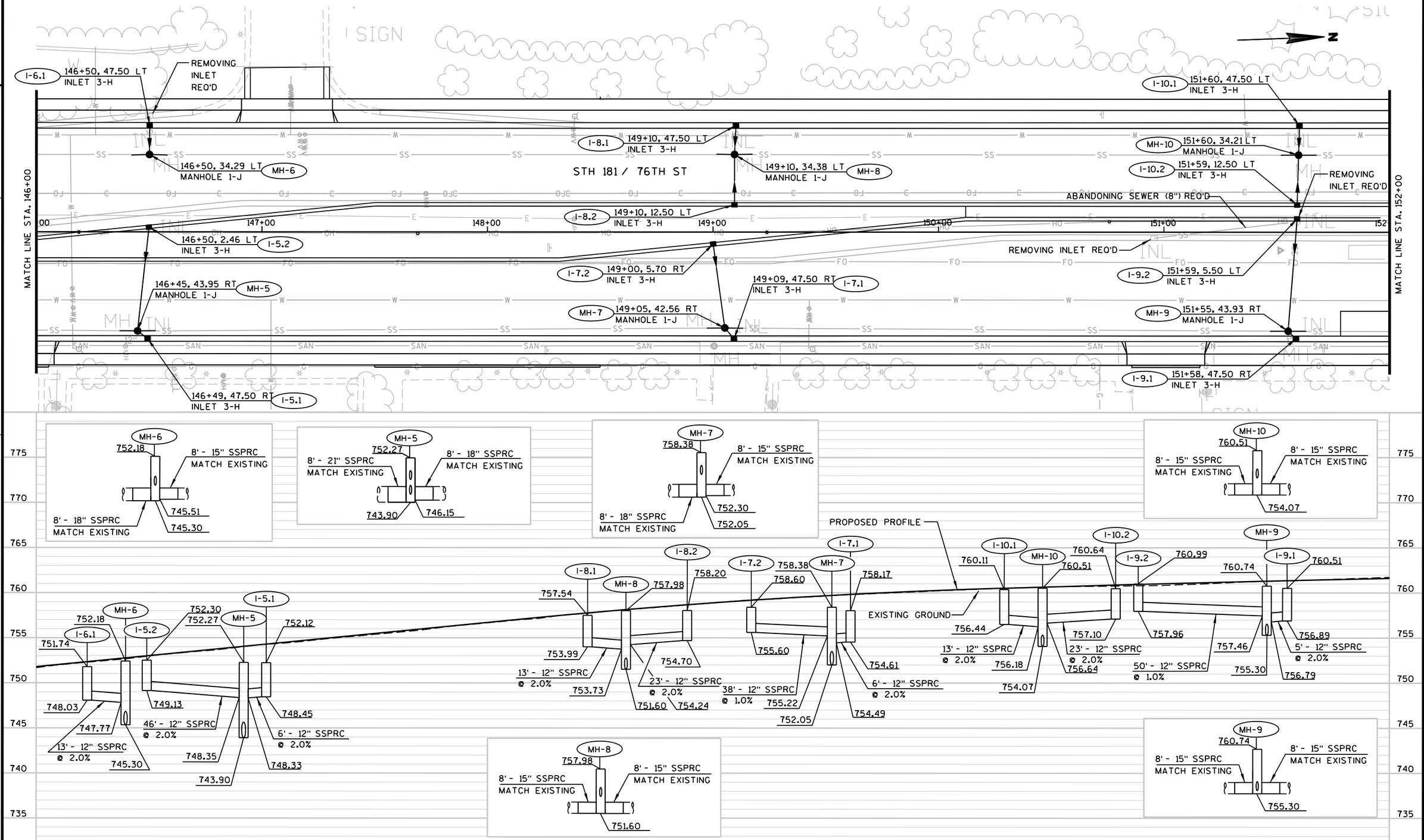
8' - 21" SSPRC
MATCH EXISTING
MH-4
748.62
8' - 21" SSPRC
MATCH EXISTING
742.59

765 760 755 750 745 740 735 730 725 720

PROJECT NO: 2140-08-73	HWY: STH 181	COUNTY: MILWAUKEE	STORM SEWER	SHEET 127 127 E

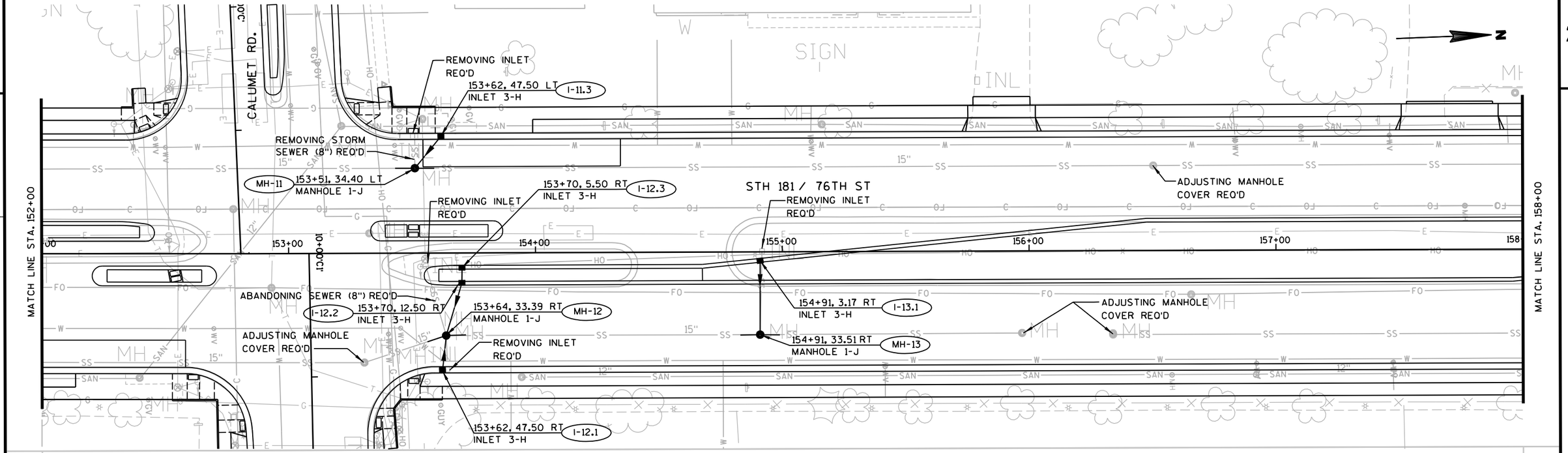
FILE NAME : s:\wsdi\051--100\089\099\micros\design\0873\022501_ss.dgn PLOT DATE : 10/17/2007 PLOT BY : $$...plotuser...$$ PLOT NAME : PLOT SCALE : $$.....plotscale.....$$ WISDOT/CADDS SHEET 41

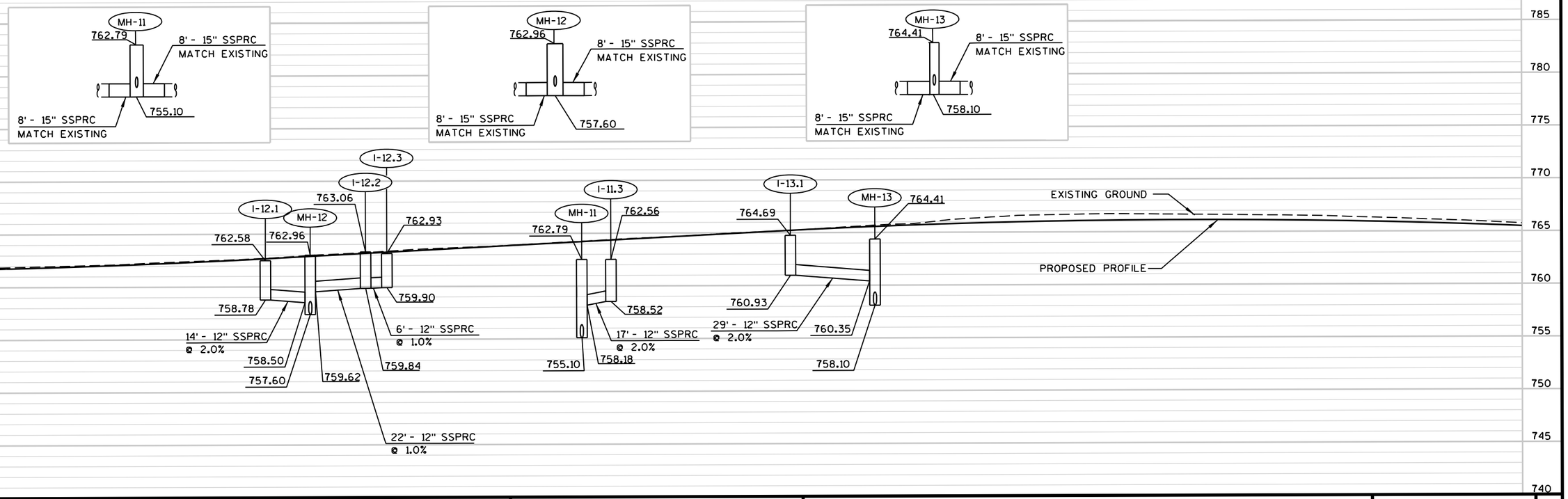
2



PROJECT NO: 2140-08-73	HWY: STH 181	COUNTY: MILWAUKEE	STORM SEWER	SHEET 128 E

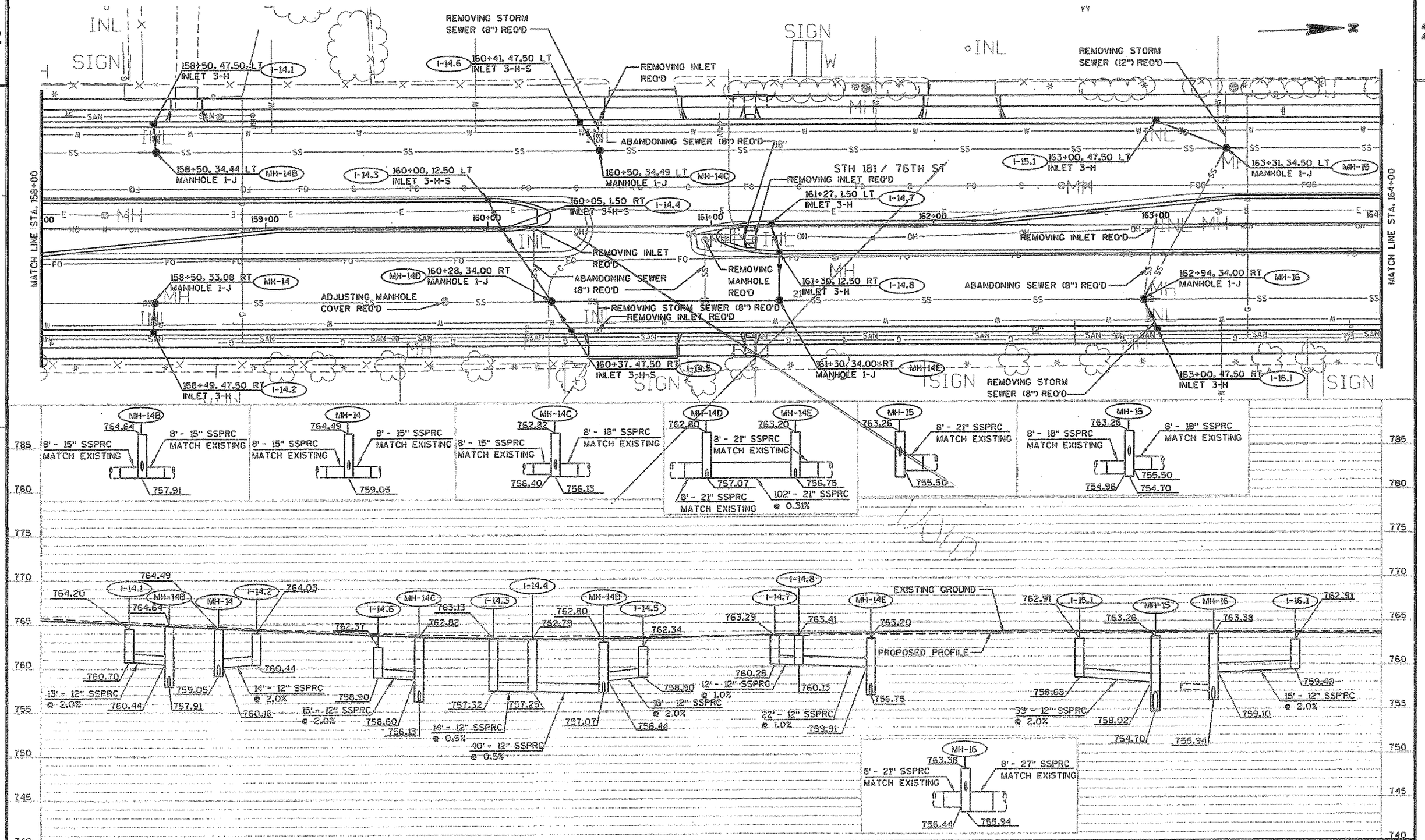
2



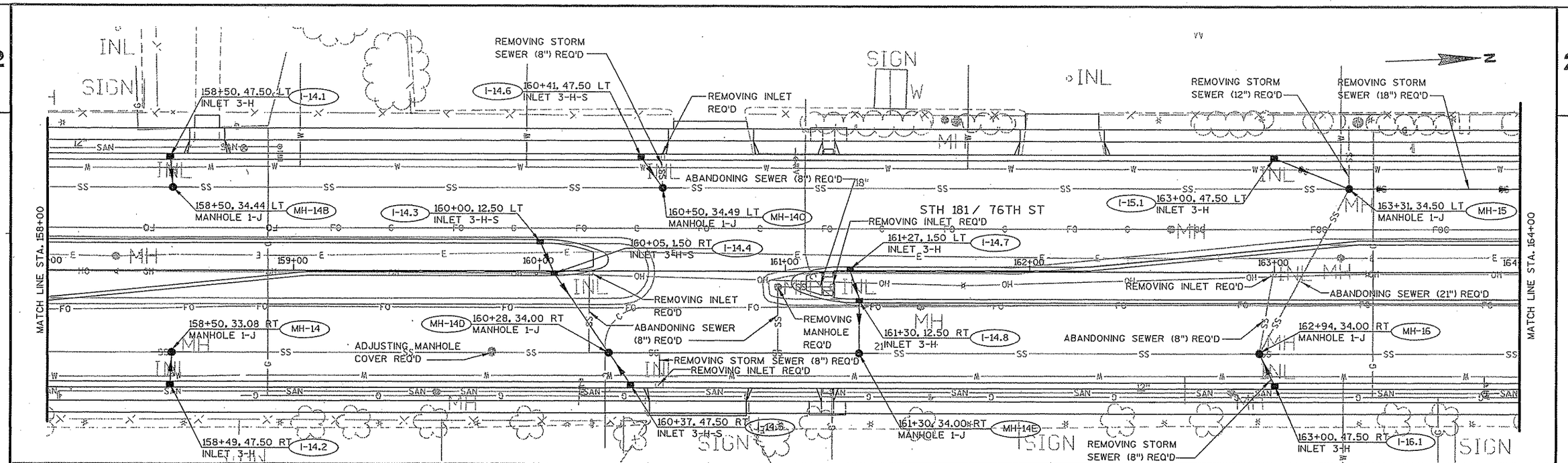


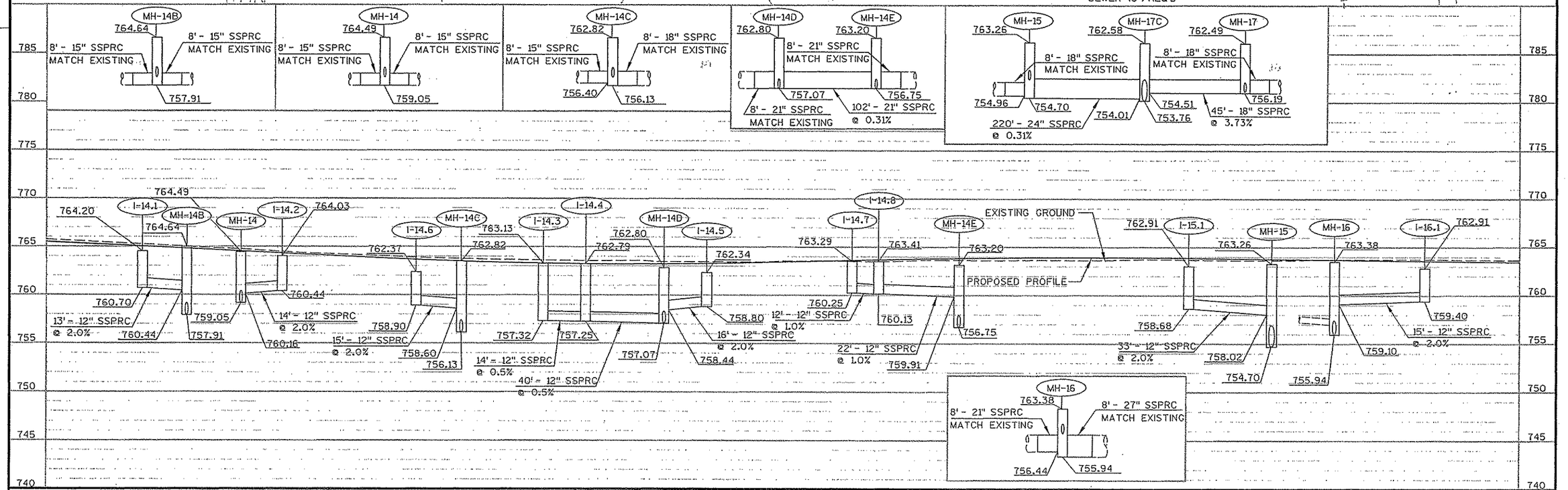
PROJECT NO: 2140-08-73	HWY: STH 181	COUNTY: MILWAUKEE	STORM SEWER	SHEET E

FILE NAME : s:\@sai\051--100\089\099\micros\design\0873\022503_ss.dgn PLOT DATE : 10/17/2007 PLOT BY : $$...plotuser...$$ PLOT NAME : PLOT SCALE : $$.....plotscale.....$$ WISDOT/CADDS SHEET 41



PROJECT NO: 2140-08-73	HWY: STH 181	COUNTY: MILWAUKEE	STORM SEWER	SHEET 130	E





PROJECT NO: 2140-08-73	HWY: STH 181	COUNTY: MILWAUKEE	STORM SEWER	SHEET 130A	E

FILE NAME : s:\MAD\1000--1099\1089\099\Micros\DESIGN\0873\022504_ss.dgn PLOT DATE : 8/19/2008 PLOT BY : $$...plotuser...$$ PLOT NAME : PLOT SCALE : $$.....plotscale.....$$ WISDOT/CADDS SHEET 41

MATCH LINE STA. 164+00

MATCH LINE STA. 170+00

STH 181 / 76TH ST

REMOVING INLET REQ'D

165+94, 47.50 LT
INLET 3-H-S
I-17.1

ABANDONING SEWER (8") REQ'D

ADJUSTING MANHOLE COVER REQ'D

MH-17
165+94, 34.56 LT
MANHOLE 1-J

165+94, 12.50 LT
INLET 3-H-S
I-17.2

165+00

166+00

167+00

165+94, 3.69 RT
INLET 3-H-S
I-17.3

MH-17B
165+52, 34.00 RT
MANHOLE 3-J

165+84, 47.50 RT
INLET 3-H-S
I-17.4

REMOVING STORM SEWER (8") REQ'D

REMOVING INLET REQ'D

I-18.2
168+10, 57.00 LT
INLET 8-MS

REMOVING INLET REQ'D

REMOVING STORM SEWER (8") REQ'D

I-18.1
168+05, 47.50 LT
INLET 3-H

168+11, 34.27 LT
MANHOLE 1-J
MH-18

168+38, 1.50 LT
INLET 3-H
I-19.2

168+00

169+00

170

ABANDONING SEWER (8") REQ'D

168+40, 11.37 RT
INLET 3-H
I-19.3

168+10, 33.73 RT
MANHOLE 1-J
MH-19

ADJUSTING MANHOLE COVER REQ'D

168+10, 47.50 RT
INLET 3-H
I-19.1

12" SSPRC
ST LOUIS

MH-17B
762.59
8' - 27" SSPRC MATCH EXISTING
753.50
8' - 27" SSPRC MATCH EXISTING

MH-17
762.49
8' - 18" SSPRC MATCH EXISTING
756.19
8' - 18" SSPRC MATCH EXISTING

MH-18
764.35
8' - 15" SSPRC MATCH EXISTING
756.70
756.45
8' - 18" SSPRC MATCH EXISTING

MH-19
764.36
8' - 18" SSPRC MATCH EXISTING
758.95
8' - 18" SSPRC MATCH EXISTING

EXISTING GROUND

PROPOSED PROFILE

MH-17B
762.59
I-17.4
762.06
I-17.1
762.05
MH-17
762.49
I-17.2
762.71
I-17.3
762.62
758.50
13' - 12" SSPRC @ 2.0%
754.25
758.24
756.19
753.50
753.31
34' - 12" SSPRC @ 1.0%
756.38
756.30
16' - 12" SSPRC @ 0.5%
22' - 12" SSPRC @ 0.5%

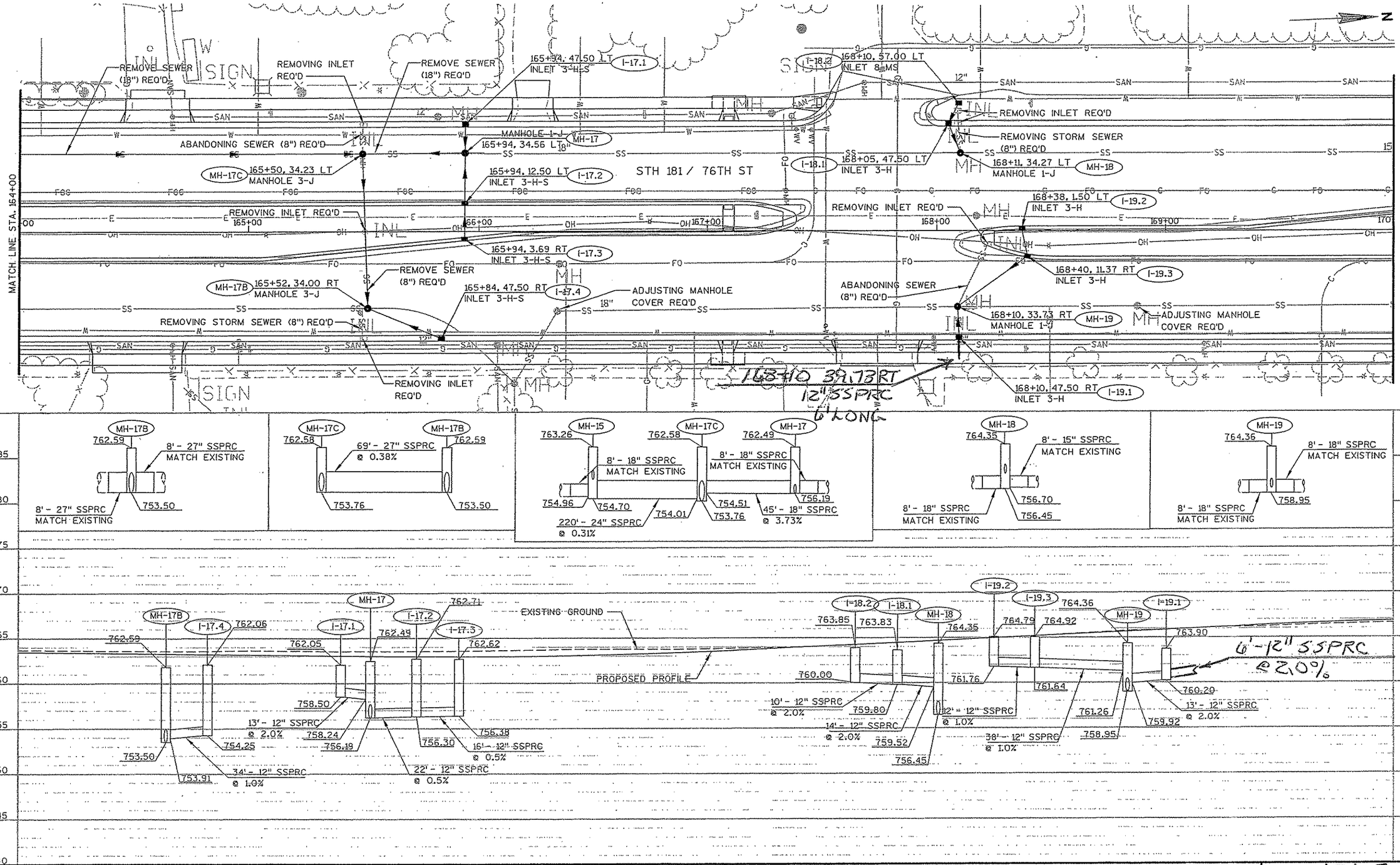
I-18.2
763.85
I-18.1
763.83
MH-18
764.35
760.00
10' - 12" SSPRC @ 2.0%
759.80
14' - 12" SSPRC @ 2.0%
759.52
12' - 12" SSPRC @ 1.0%
756.45
I-19.2
764.79
I-19.3
764.92
761.78
761.64
38' - 12" SSPRC @ 1.0%
761.26
MH-19
764.36
758.95
I-19.1
763.90
760.20
13' - 12" SSPRC @ 2.0%
759.92
6' - 12" SSPRC @ 2.0%

785
780
775
770
765
760
755
750
745
740

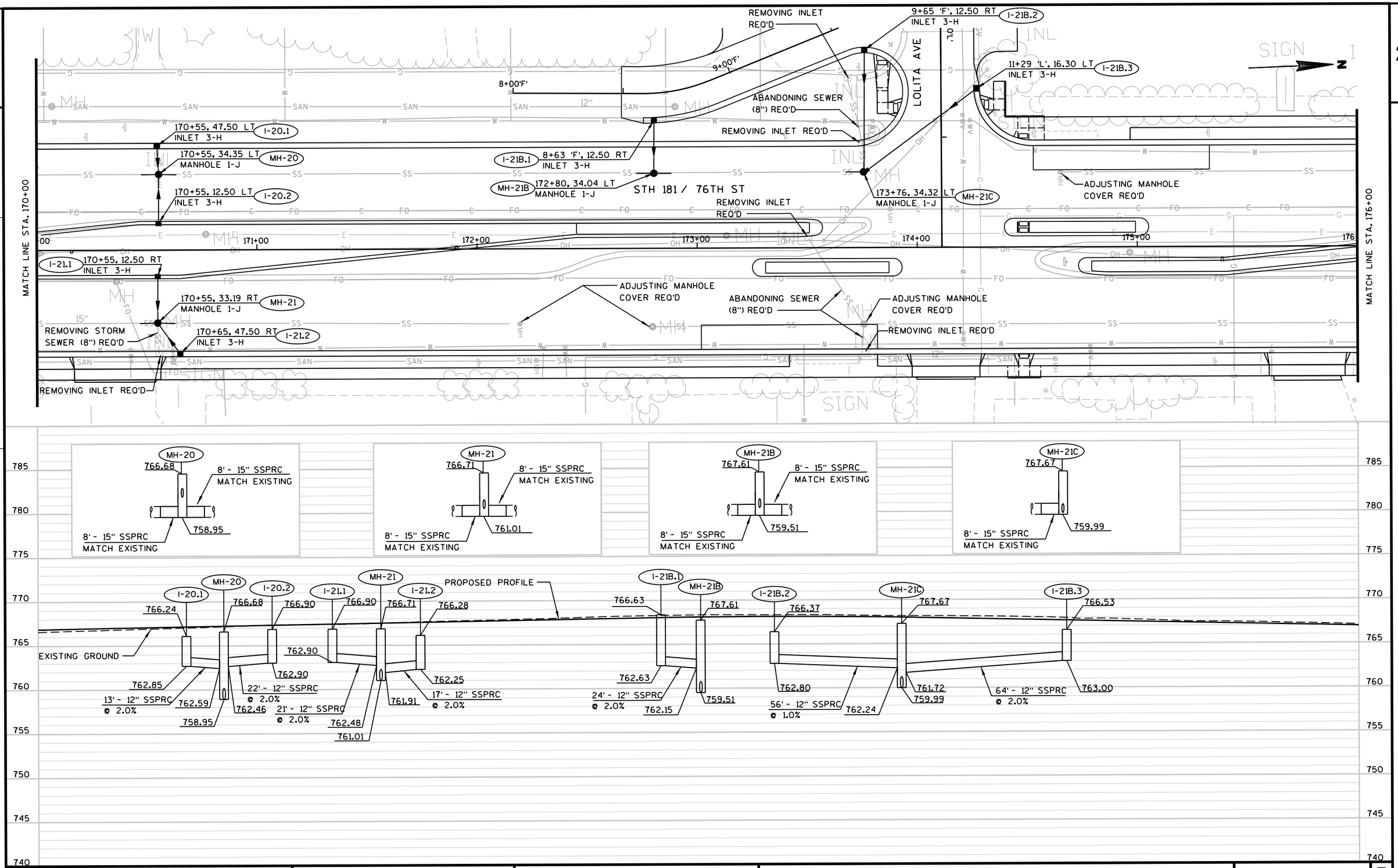
PROJECT NO: 2140-08-73 | HWY: STH 181 | COUNTY: MILWAUKEE | STORM SEWER | SHEET 131 | E

FILE NAME : s:\@soi\051--100\089\099\micros\design\0873\022505_ss.dgn
PLOT DATE : 10/17/2007
PLOT BY : $$...plotuser...$$ PLOT NAME :
PLOT SCALE : $$.....plotscale.....$$
WISDOT/CADDS SHEET 41

2

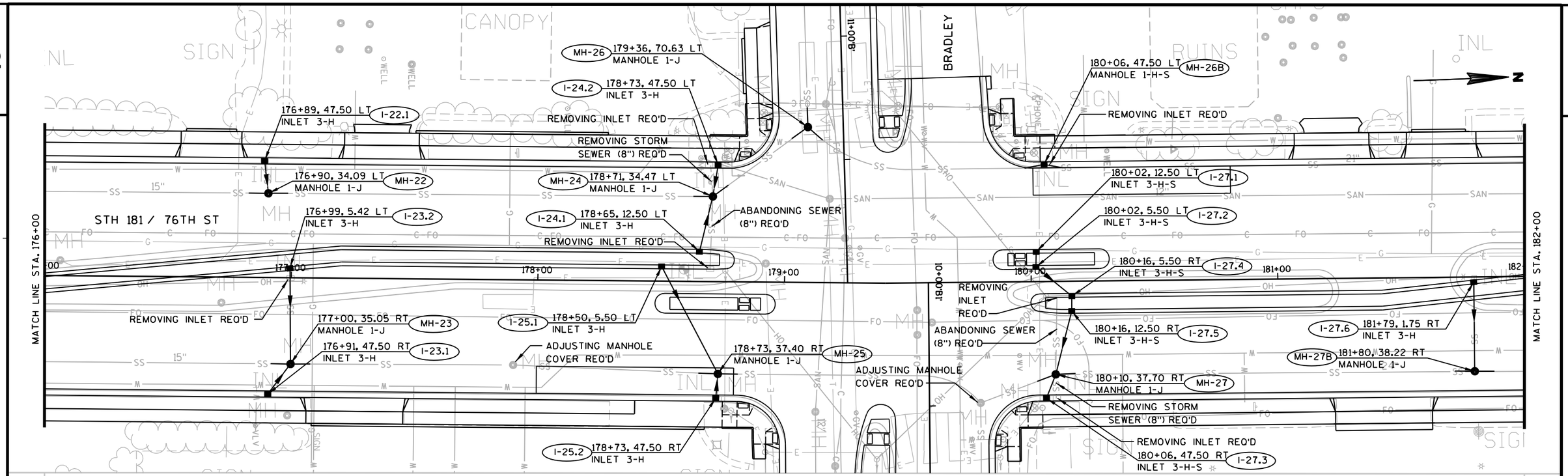


PROJECT NO: 2140-08-73	HWY: STH 181	COUNTY: MILWAUKEE	STORM SEWER	SHEET 131-A	E

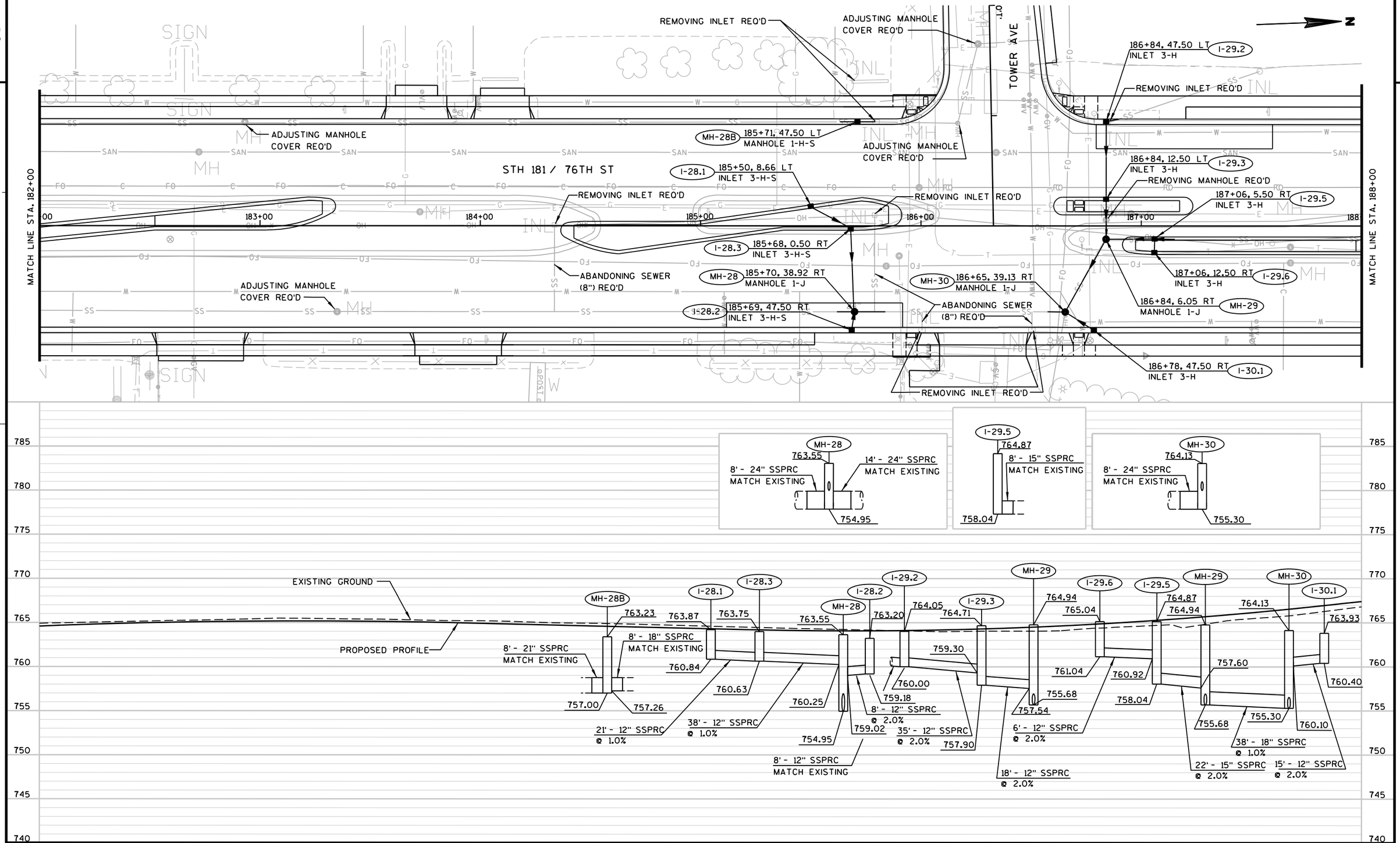


PROJECT NO: 2140-08-73	HWY: STH 181	COUNTY: MILWAUKEE	STORM SEWER	SHEET E

FILE NAME : s:\@sai\051--100\089\099\micros\design\0873\022506_ss.dgn PLOT DATE : 10/17/2007 PLOT BY : $$...plotuser...$$ PLOT NAME : PLOT SCALE : $$.....plotscale.....$$ WISDOT/CADDS SHEET 41

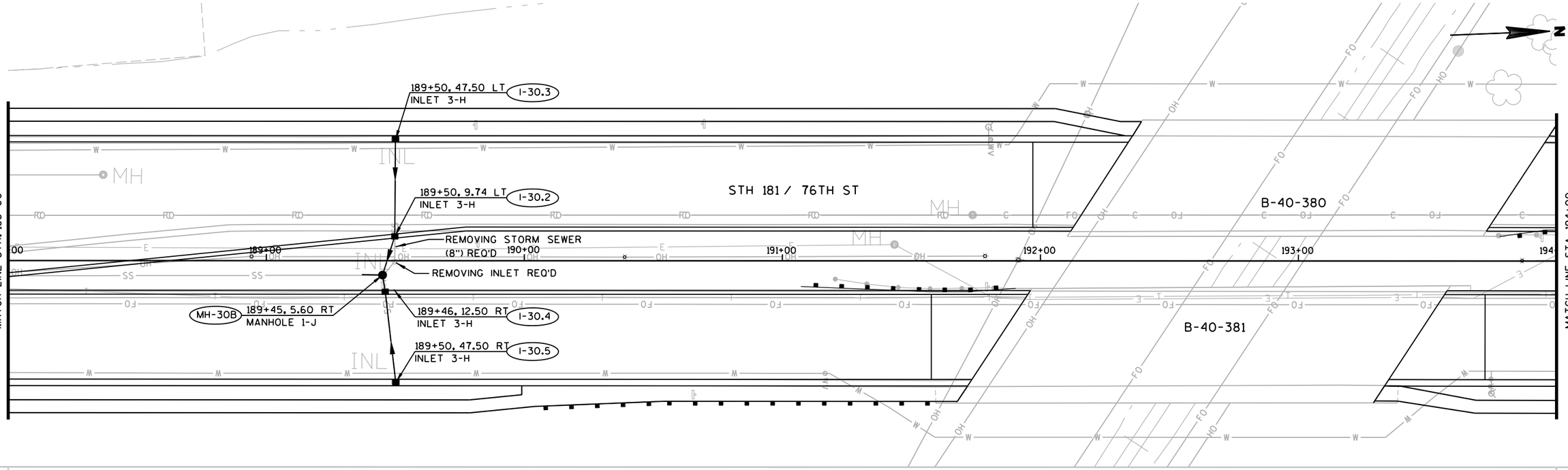


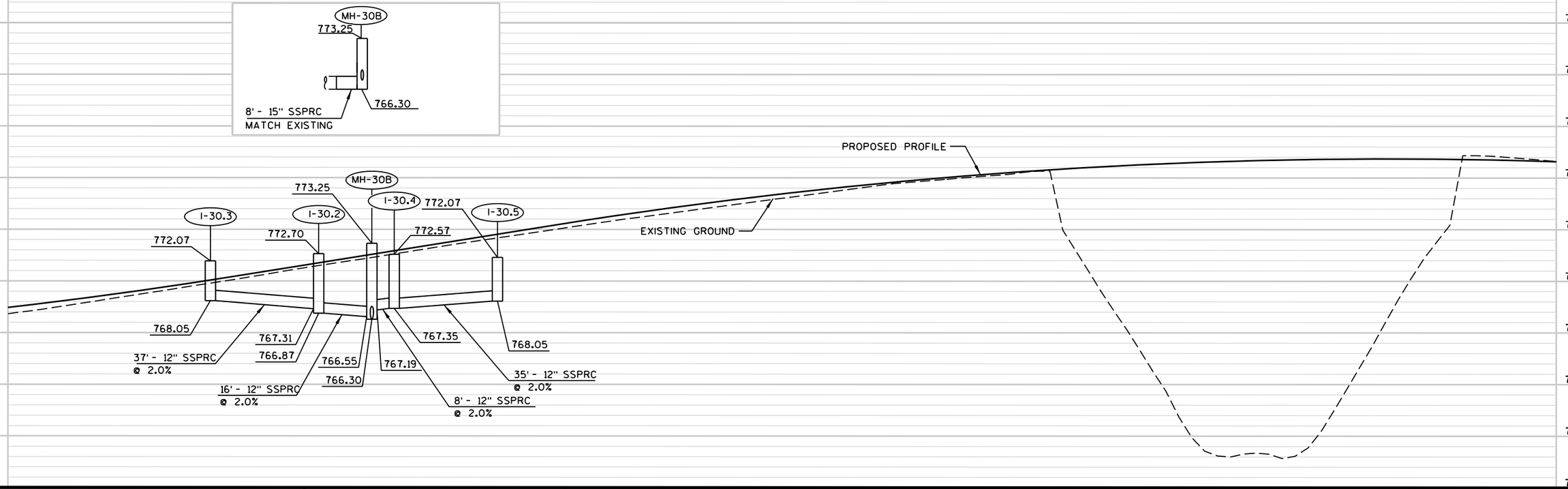
PROJECT NO: 2140-08-73	HWY: STH 181	COUNTY: MILWAUKEE	STORM SEWER	SHEET 133	E



PROJECT NO: 2140-08-73	HWY: STH 181	COUNTY: MILWAUKEE	STORM SEWER	SHEET 134	E

2

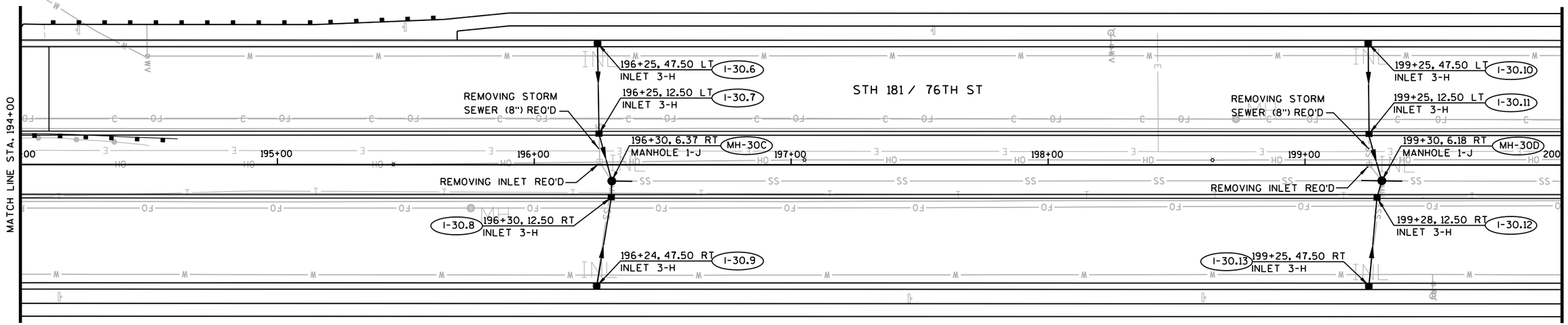


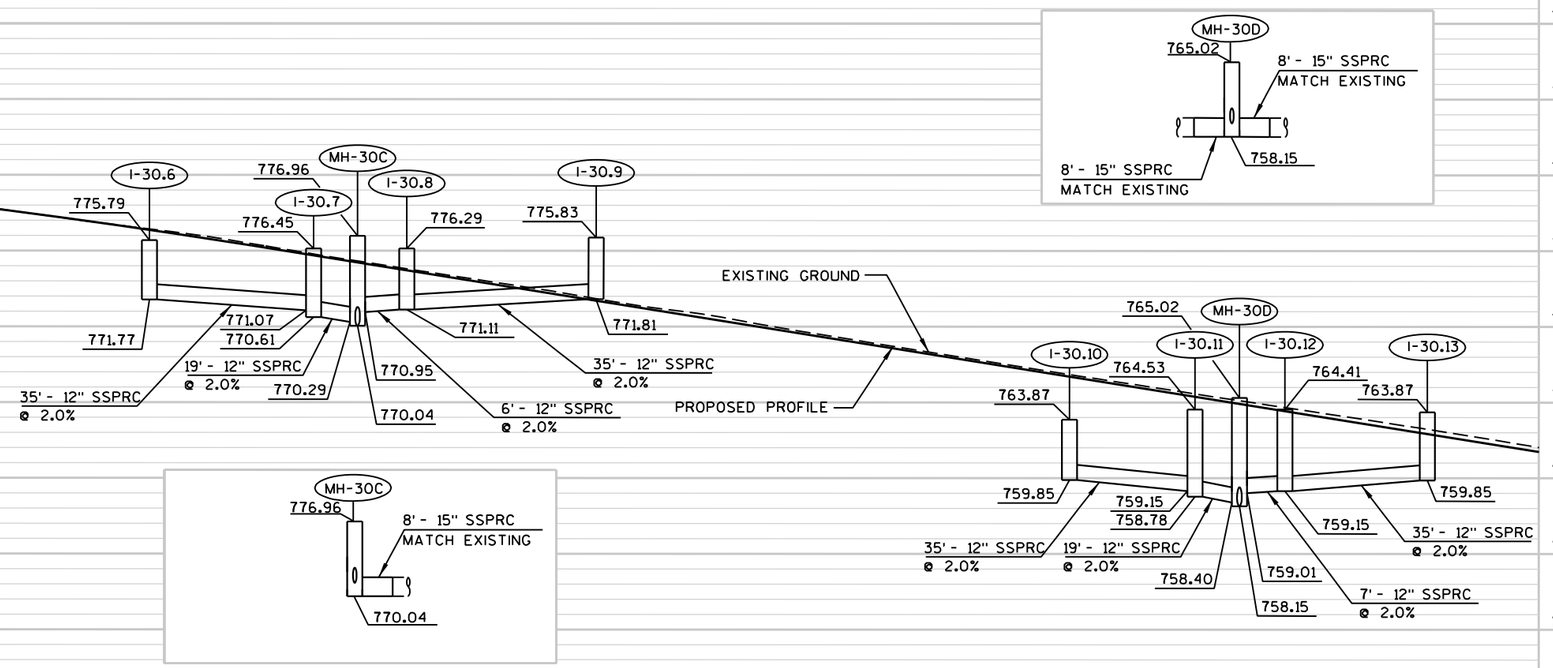


PROJECT NO: 2140-08-73	HWY: STH 181	COUNTY: MILWAUKEE	STORM SEWER	SHEET 135 E

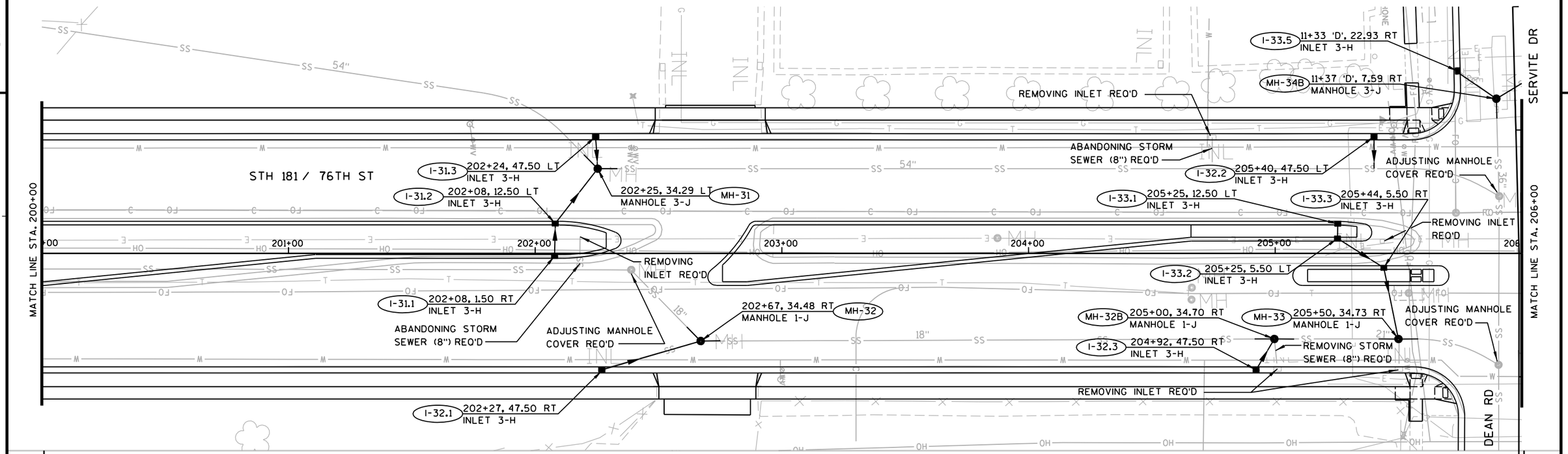
FILE NAME : s:\@sai\051--100\089\099\micros\design\0873\022509_ss.dgn PLOT DATE : 10/17/2007 PLOT BY : $$...plotuser...$$ PLOT NAME : PLOT SCALE : $$.....plotscale.....$$

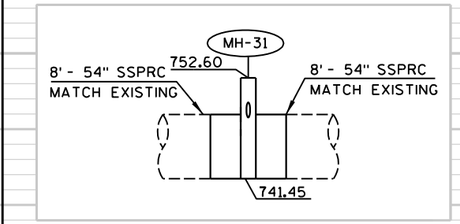
2

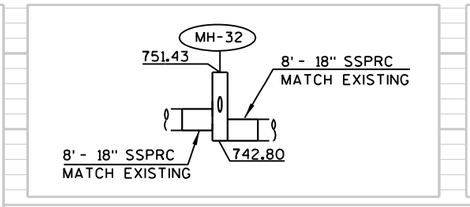


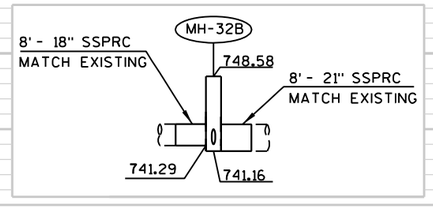


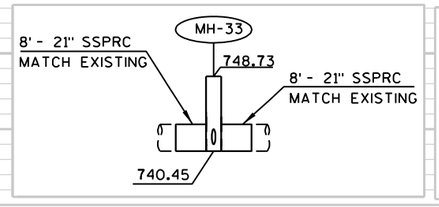
PROJECT NO: 2140-08-73	HWY: STH 181	COUNTY: MILWAUKEE	STORM SEWER	SHEET 136 E

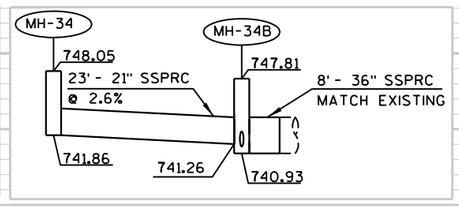


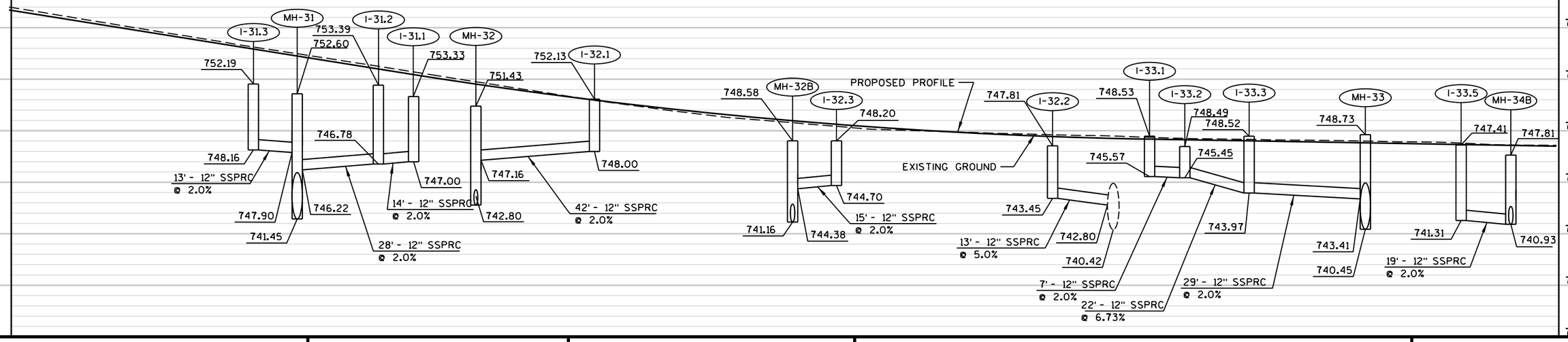






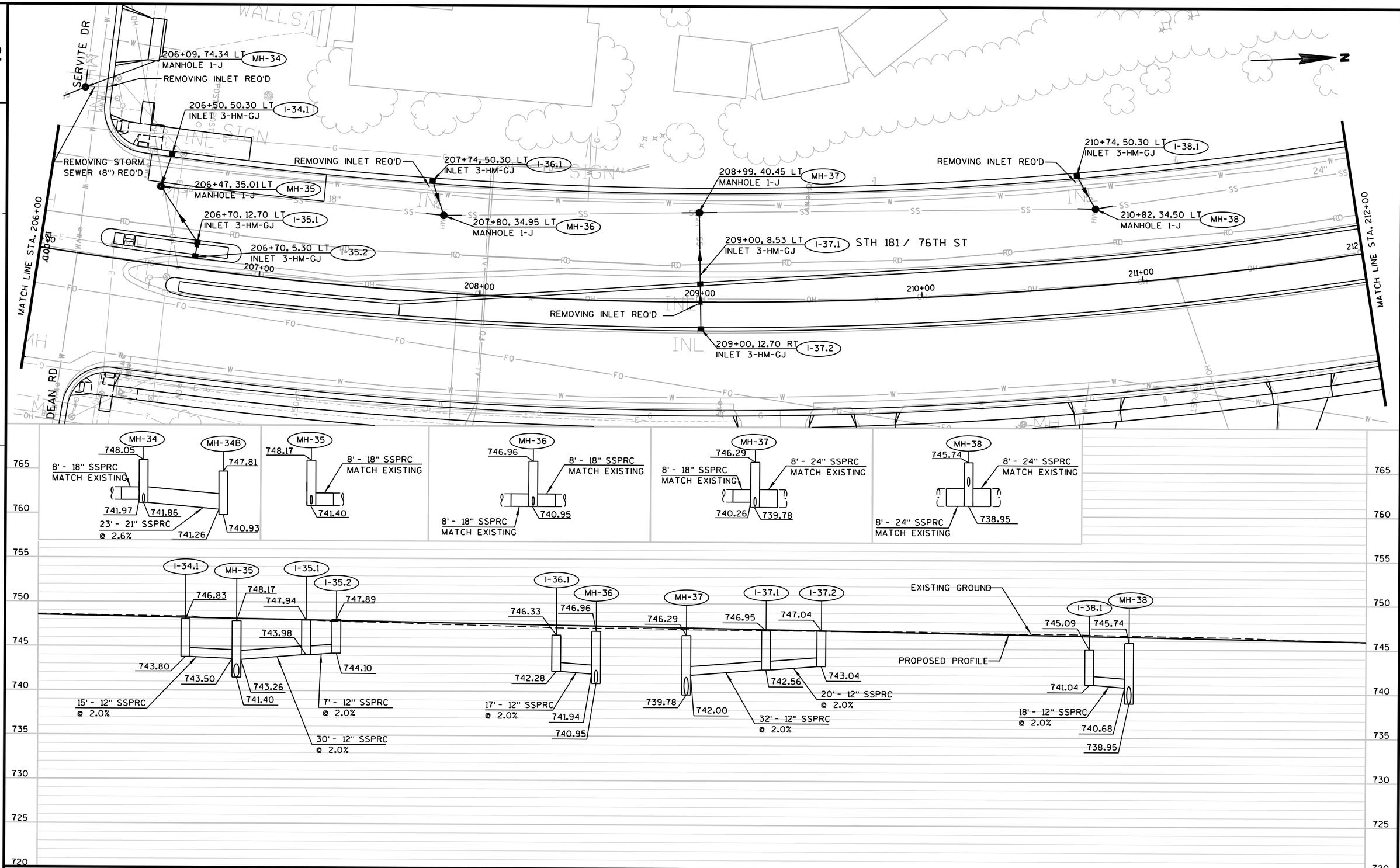






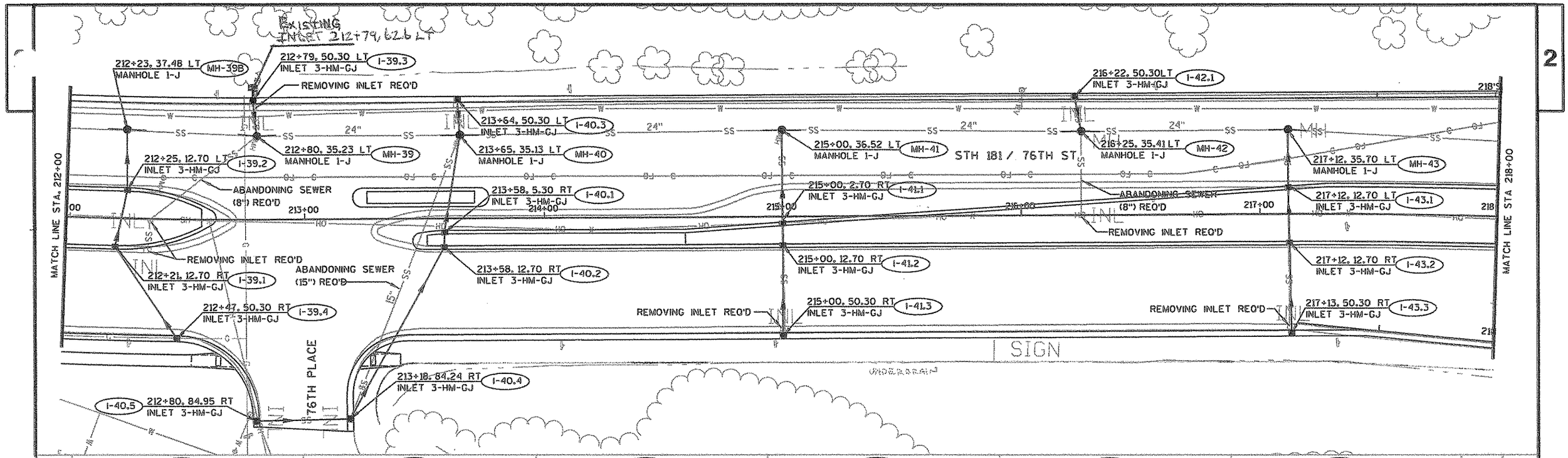
PROJECT NO: 2140-08-73	HWY: STH 181	COUNTY: MILWAUKEE	STORM SEWER	SHEET 137	E

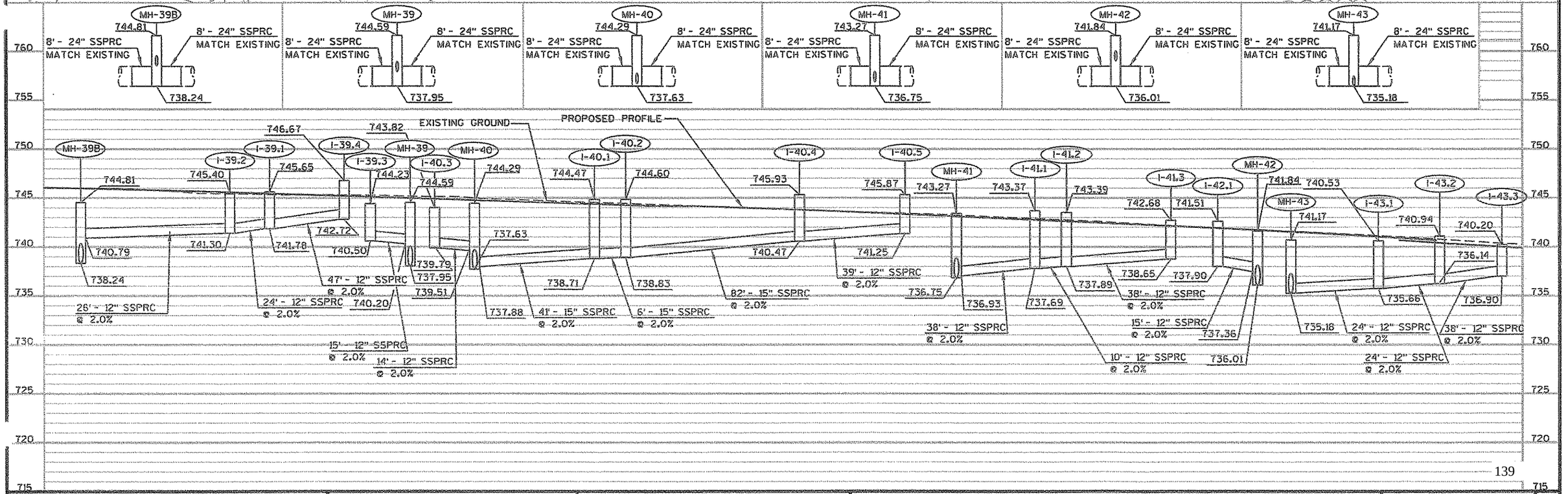
2



PROJECT NO: 2140-08-73	HWY: STH 181	COUNTY: MILWAUKEE	STORM SEWER	SHEET 138	E

FILE NAME : s:\@sai\051--100\089\099\micros\design\0873\022512_ss.dgn PLOT DATE : 10/17/2007 PLOT BY : $$...plotuser...$$ PLOT NAME : PLOT SCALE : $$.....plotscale.....$$ WISDOT/CADDS SHEET 41





PROJECT NO: 2140-08-73	HWY: STH 181	COUNTY: MILWAUKEE	STORM SEWER	SHEET 139	E

FILE NAME : s:\sgi\051--100\089\099\micros\design\0873\022513_ss.dgn PLOT DATE : 10/17/2007 PLOT BY : $$...plotuser...$$ PLOT NAME : PLOT SCALE : $$.....plotscale.....$$

2

MATCH LINE STA. 218+00

MATCH LINE STA. 224+00

STH 181 / 76TH ST

MH-44 219+50, 33.30 LT MANHOLE 1-J

REMOVING INLET REQ'D

I-44.1 219+50, 12.70 LT INLET 3-HM-GJ

I-45.1 220+10, 59.72 RT INLET 3-HM-GJ

220+19, 62.30 RT MANHOLE 1-J MH-45

I-45.2 222+51, 12.70 LT INLET 3-HM-GJ

REMOVING INLET REQ'D

222+88, 73.99LT MANHOLE 1-HM-GJ MH-44B

MH-45C 223+14 'SE', 8.50 LT MANHOLE 1-J

I-45.4 223+14 'SE', 1.30 RT INLET 3-HM-GJ

24" SS

UNDERDRAIN

UNDERDRAIN

MH-44
736.98
8' - 24" SSPRC MATCH EXISTING
8' - 24" SSPRC MATCH EXISTING
731.10

MH-45
734.05
8' - 12" SSPRC MATCH EXISTING
728.63

MH-44B
726.13
8' - 24" SSPRC MATCH EXISTING
8' - 24" SSPRC MATCH EXISTING
719.50

MH-45C
726.30
8' - 15" SSPRC MATCH EXISTING
8' - 12" SSPRC MATCH EXISTING
720.19
720.05

755 750 745 740 735 730 725 720 715 710

736.16
736.98
MH-44
I-44.1
732.24
731.10
732.24
732.66
21' - 12" SSPRC @ 2.0%
8' - 12" SSPRC MATCH EXISTING

734.12
MH-45
I-45.1
734.05
729.28
729.10
728.63
9' - 12" SSPRC @ 2.0%
8' - 12" SSPRC MATCH EXISTING

PROPOSED PROFILE
EXISTING GROUND

I-45.2
729.15
725.15
72' - 12" SSPRC @ 6.63%
720.38
719.50
MH-44B
726.13

I-45.4
MH-45C
726.30
725.79
8' - 12" SSPRC MATCH EXISTING
720.05
720.41
720.61
10' - 12" SSPRC @ 2.0%

140

PROJECT NO: 2140-08-73	HWY: STH 181	COUNTY: MILWAUKEE	STORM SEWER	SHEET 140	E

MATCH LINE STA. 224+00

MATCH LINE STA. 230+00

STH 181 / 76TH ST

INL

OH

SS

HO

15"

224'SE'

225'SE'

226'SE'

227'SE'

228'SE'

229'SE'

225+00

226+00

227+00

228+00

229+00

230

REMOVING INLET REQ'D

I-45.6 225+51, 12.70 LT INLET 3-HM-GJ

225+51, 12.70 RT INLET 3-HM-GJ I-45.7

226+27, 50.30 RT I-46.1 INLET 3-HM-GJ

226+13 'SE', 8.00 LT MH-46 MANHOLE 1-J

226+13 'SE', 1.30 RT I-46.2 INLET 3-HM-GJ

228+49, 12.70 LT I-46.3 INLET 3-HM-GJ

REMOVING INLET REQ'D

I-46.4 228+49, 12.70 RT INLET 3-HM-GJ

ABANDONING SEWER (15") REQ'D

REMOVING INLET REQ'D

I-46.5 229+23, 50.30 RT INLET 3-HM-GJ

ABANDONING SEWER (15") REQ'D

REMOVING INLET REQ'D

ABANDONING SEWER (15") REQ'D

I-46.6 229+00 'SE', 29.3 LT INLET 8-MS

MH-46B 229+14 'SE', 1.80 LT MANHOLE 1-J

I-46.7 229+15 'SE', 1.30 RT INLET 3-HM-GJ

MH-45B
714.94
8' - 24" SSPRC MATCH EXISTING
708.65
8' - 24" SSPRC MATCH EXISTING
708.80

MH-46
713.70
8' - 18" SSPRC MATCH EXISTING
8' - 15" SSPRC MATCH EXISTING
707.60

I-46.5
712.86
16' - 15" SSPRC MATCH EXISTING
703.02

MH-46B
698.35
8' - 18" SSPRC MATCH EXISTING
8' - 18" SSPRC MATCH EXISTING
692.00

735 730 725 720 715 710 705 700 695 690

I-45.6 720.68 I-45.7 721.67 718.94 I-46.1

MH-45B I-45.5 714.94 714.99 716.88 717.34

MH-46 713.70 713.19 I-46.2 I-46.3 I-46.4

PROPOSED PROFILE

715.22 714.93

I-46.5 715.06

EXISTING GROUND

709.87

708.65 710.00

77' - 12" SSPRC @ 2.0%

7' - 18" SSPRC @ 2.0%

23' - 12" SSPRC @ 2.0% 714.89

55' - 12" SSPRC @ 11.5%

708.33

710.93 710.45

24' - 12" SSPRC @ 2.0%

85' - 12" SSPRC @ 2.0%

708.75

708.55 707.60 708.25

8' - 12" SSPRC @ 1.0%

8' - 12" SSPRC MATCH EXISTING

703.02 703.44

I-46.6 699.43 MH-46B 698.35 I-46.7 697.86

80' - 15" SSPRC @ 11.3% 694.00 693.60

693.86

9' - 12" SSPRC @ 2.0% 693.69

26' - 18" SSPRC @ 6.0% 692.82 692.00

PROJECT NO: 2140-08-73	HWY: STH 181	COUNTY: MILWAUKEE	STORM SEWER	SHEET 141 141

E

2

N

225'SW' 226'SW' 227'SW' 228'SW' 229'SW' 230'SW'

24"

REMOVING INLET REQ'D

225+75 'SW', 19.30 RT
MANHOLE 1-H
MH-45B

225+75 'SW', 26.00 RT
INLET 8-MS
I-45.5

ADJUSTING MANHOLE
COVER REQ'D

STH 181 / 76TH ST

225+51, 12.70 LT
INLET 3-HM-GJ
I-45.6

225+51, 12.70 RT
INLET 3-HM-GJ
I-45.7

REMOVING INLET REQ'D

ABANDONING SEWER
(15") REQ'D

MATCH LINE STA. 224+00

MATCH LINE STA. 230+00

225+00 226+00 227+00 228+00 229+00 230

MH-45B
714.94
8' - 24" SSPRC
MATCH EXISTING

8' - 24" SSPRC
MATCH EXISTING
708.65
708.80

I-45.6
720.88
I-45.7
721.67

MH-45B
I-45.5
714.94
714.99
709.87
708.65
710.00
7' - 18" SSPRC
@ 2.0%
77' - 12" SSPRC
@ 2.0%
716.88
717.34
23' - 12" SSPRC
@ 2.0%

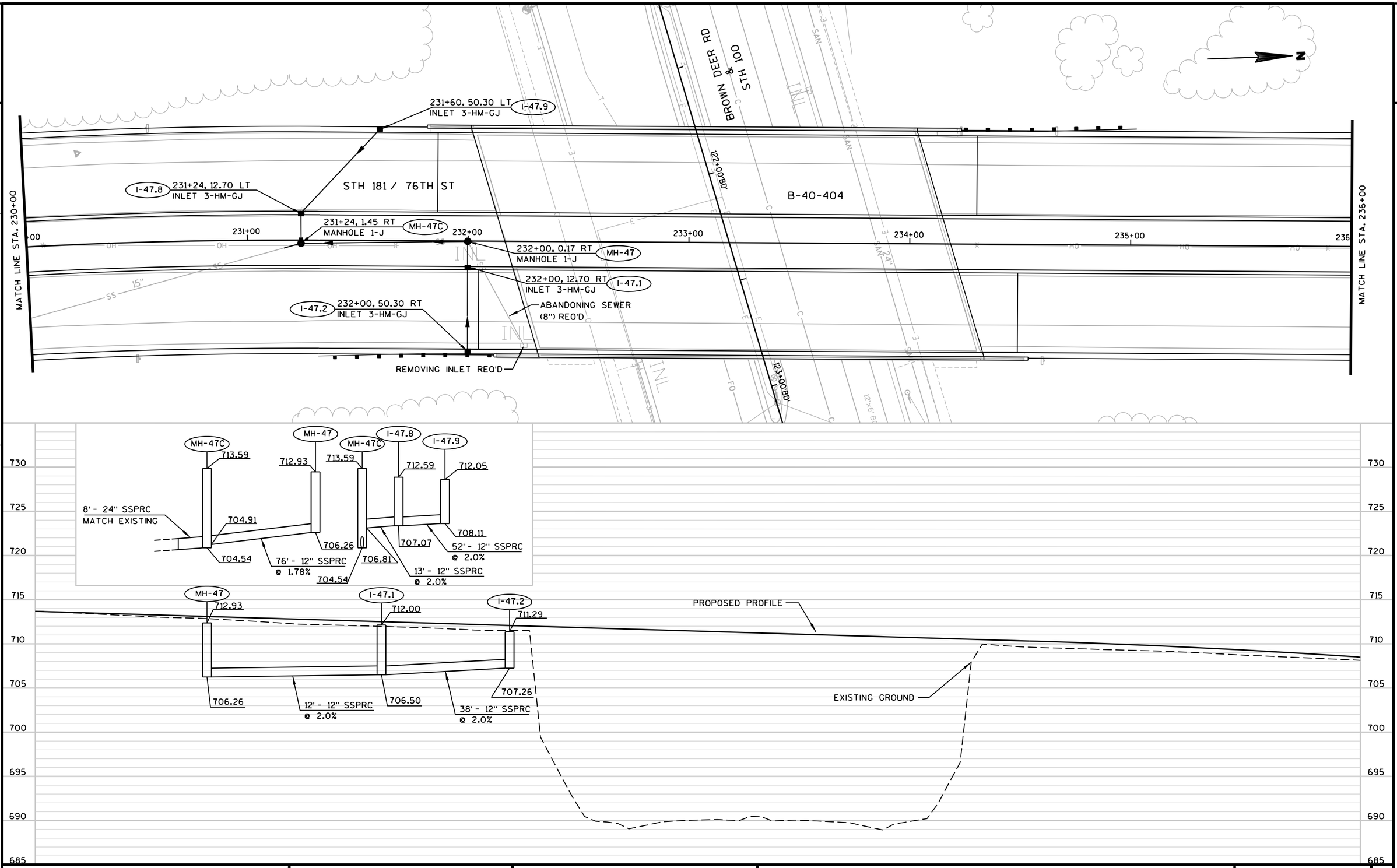
PROPOSED PROFILE

EXISTING GROUND

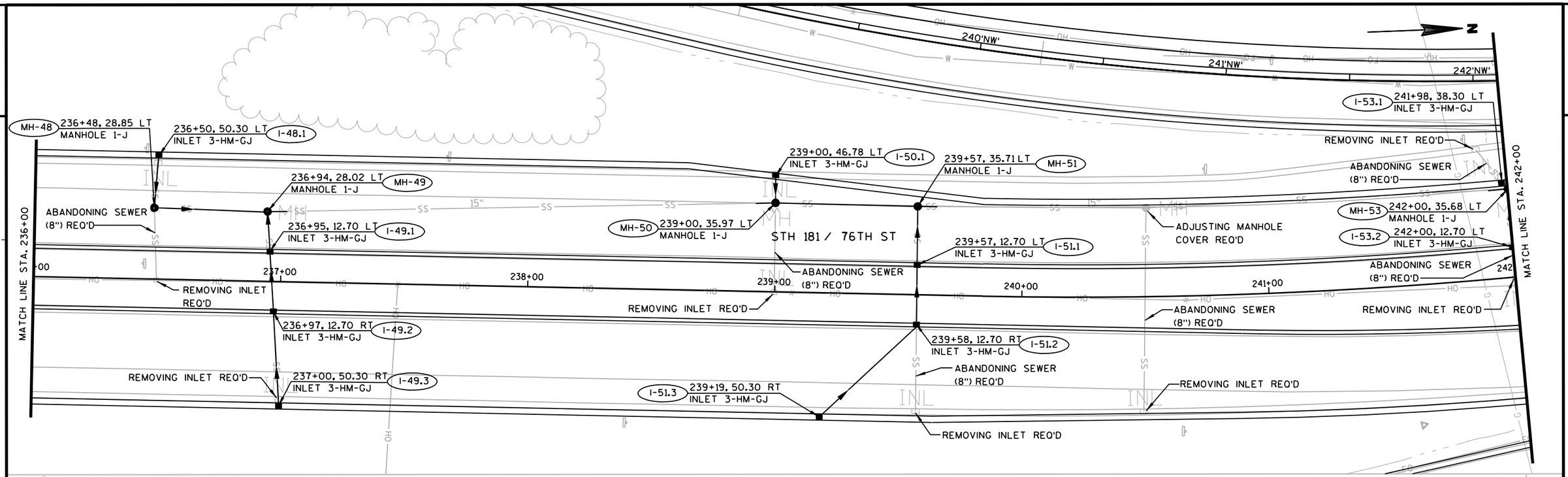
740 735 730 725 720 715 710 705 700 695

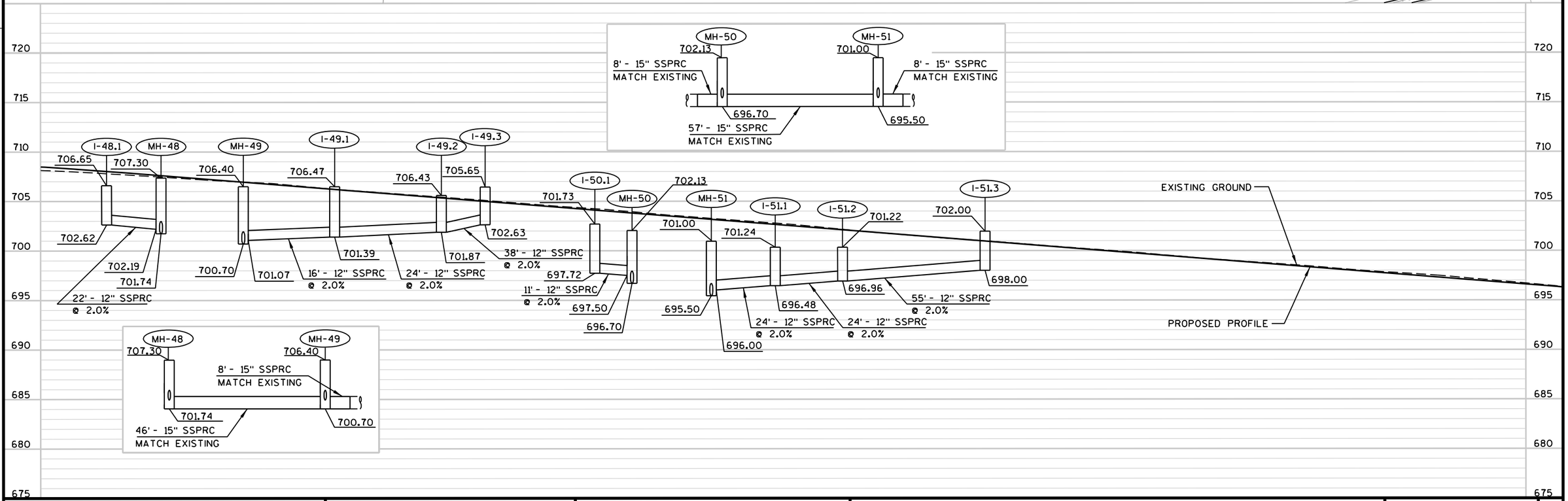
PROJECT NO: 2140-08-73	HWY: STH 181	COUNTY: MILWAUKEE	STORM SEWER	SHEET 142	E

2

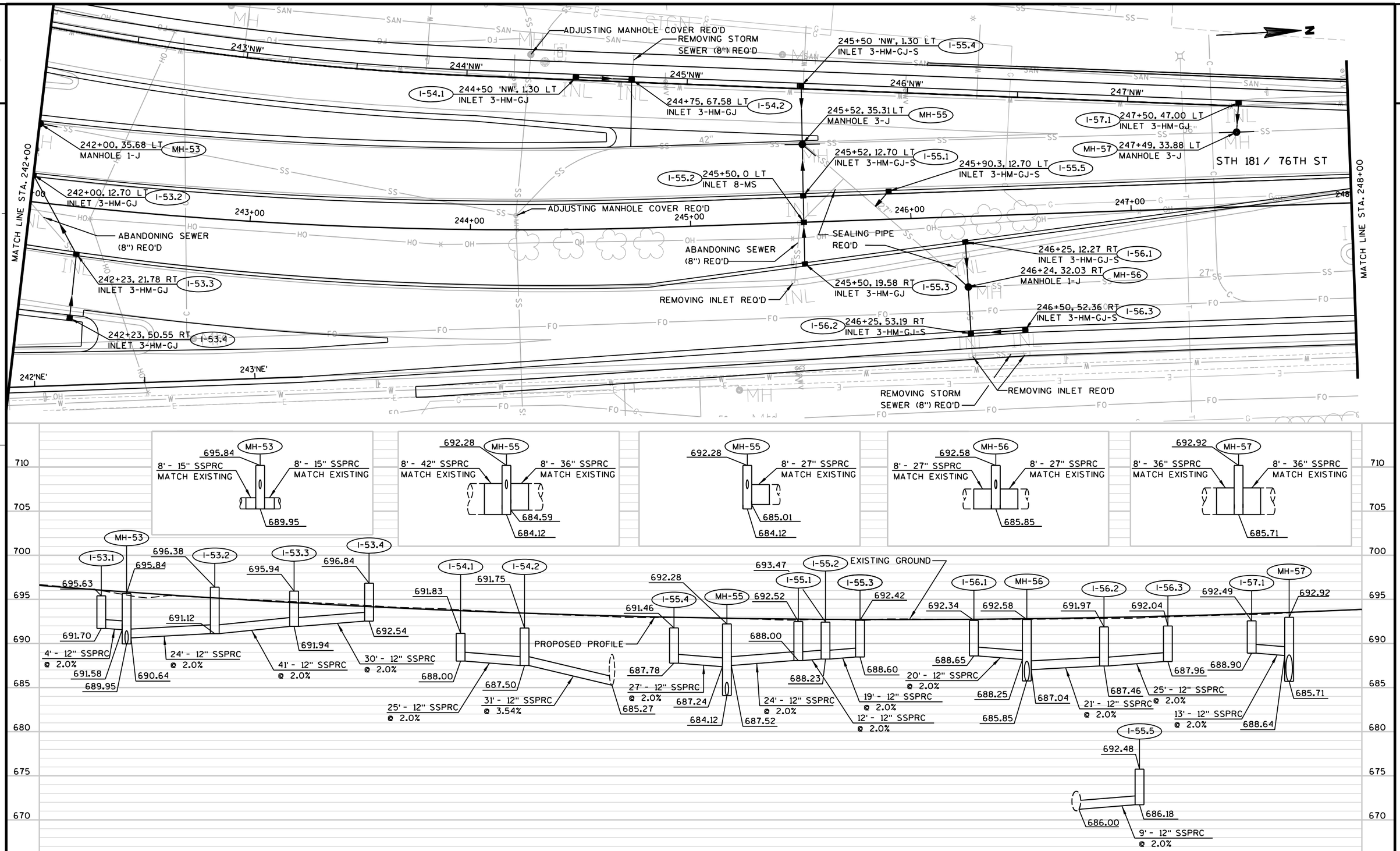


PROJECT NO: 2140-08-73	HWY: STH 181	COUNTY: MILWAUKEE	STORM SEWER	SHEET 143	E

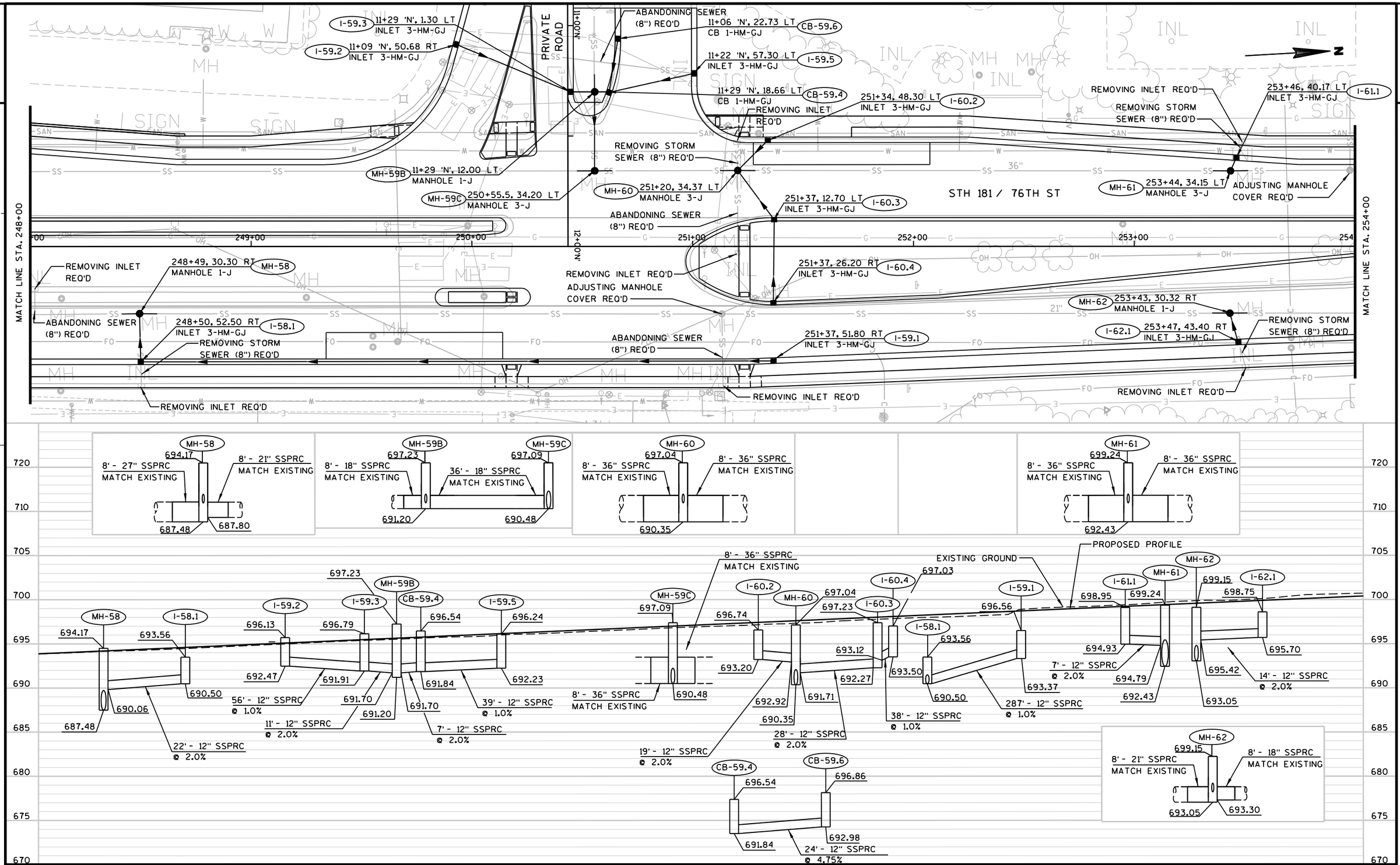




PROJECT NO: 2140-08-73	HWY: STH 181	COUNTY: MILWAUKEE	STORM SEWER	SHEET 144	E



PROJECT NO: 2140-08-73	HWY: STH 181	COUNTY: MILWAUKEE	STORM SEWER	SHEET 145 E



PROJECT NO: 2140-08-73	HWY: STH 181	COUNTY: MILWAUKEE	STORM SEWER	SHEET 146 E

MATCH LINE STA. 254+00

MATCH LINE STA. 260+00

PHONE

SIGN

INL

MH

SAN

SS

FO

REMOVING INLET REQ'D

REMOVING STORM SEWER (8") REQ'D

I-65.1 11+36 'NL', 37.42 RT INLET 3-HM-GJ

PRIVATE ROAD

ABANDONING SEWER (8") REQ'D

REMOVING STORM SEWER (8") REQ'D

REMOVING INLET REQ'D

11+26 'NL', 37.05 LT I-65.2 INLET 3-HM-GJ

258+49, 48.30 LT I-67.1 INLET 3-HM-GJ

258+00, 48.30 LT I-66.3 INLET 3-HM-GJ

MH-66 257+96, 34.00 LT MANHOLE 1-J

254+32, 34.29 LT MH-63 MANHOLE 3-J

254+32, 12.70 LT I-63.1 INLET 3-HM-GJ

MH-64 255+92, 34.02 LT MANHOLE 3-J

255+98, 38.30 LT I-64.1 INLET 3-H-D

MH-65 257+35, 60.00 LT MANHOLE 1-J

ADJUSTING MANHOLE COVER REQ'D

257+84, 12.70 LT I-66.1 INLET 3-HM-GJ

258+44, 34.16 LT MH-67 MANHOLE 1-J

257+84, 5.30 LT I-66.2 INLET 3-HM-GJ

REMOVING INLET REQ'D

STH 181 / 76TH ST

253+00 254+00 255+00 256+00 257+00 258+00 259+00 260

254+31, 1.20 RT I-63.2 INLET 3-HM-GJ

REMOVING INLET REQ'D

255+92, 30.18 RT MH-64B MANHOLE 1-J

255+93, 45.80 RT I-64.2 INLET 3-HM-GJ

I-68.3 258+15, 5.30 RT INLET 3-HM-GJ

I-68.2 258+15, 12.70 RT INLET 3-HM-GJ

258+00, 30.18 RT MH-68 MANHOLE 1-J

ABANDONING SEWER (8") REQ'D

I-68.1 258+00, 43.30 RT INLET 3-HM-GJ

ABANDONING SEWER (8") REQ'D

ADJUSTING MANHOLE COVER REQ'D

REMOVING INLET REQ'D

REMOVING STORM SEWER (8") REQ'D

REMOVING INLET REQ'D

NORTHRIDGE LAKES BLVD

MH-63 700.17

8' - 36" SSPRC MATCH EXISTING

8' - 36" SSPRC MATCH EXISTING 693.13

MH-64B 701.40

8' - 18" SSPRC MATCH EXISTING

8' - 18" SSPRC MATCH EXISTING 696.23

MH-65 702.76

8' - 18" SSPRC MATCH EXISTING

8' - 18" SSPRC MATCH EXISTING 696.08

MH-66 703.90

8' - 30" SSPRC MATCH EXISTING

8' - 30" SSPRC MATCH EXISTING 696.05

MH-68 703.42

8' - 18" SSPRC MATCH EXISTING

8' - 18" SSPRC MATCH EXISTING 697.90

MH-67 704.29

8' - 30" SSPRC MATCH EXISTING

8' - 30" SSPRC MATCH EXISTING 696.43

725 720 715 710 705 700 695 690 685 680

PROPOSED PROFILE

MH-63 700.17 I-63.1 700.38 I-63.2 699.95

696.88 697.00 695.52 695.90 693.13

12' - 12" SSPRC @ 1.0%

33' - 12" SSPRC @ 2.0%

I-64.1 701.85 MH-64 701.85 MH-64B 701.40 I-64.2 701.16

697.57 694.41 697.41 696.23

5' - 12" SSPRC @ 2.0%

16' - 12" SSPRC @ 2.0%

697.68

MH-64 701.85

8' - 30" SSPRC MATCH EXISTING

8' - 36" SSPRC MATCH EXISTING 694.91 694.41

I-65.1 703.50 MH-65 702.76 I-65.2 703.43 I-66.3 703.66 MH-66 703.90

698.94 698.20 698.79 699.59 700.10 699.02 697.97

14' - 12" SSPRC @ 2.0%

60' - 12" SSPRC @ 2.0%

696.08 696.65

I-66.1 703.69 I-66.2 703.49 MH-67 704.29 I-67.1 705.90

EXISTING GROUND

698.61 698.45 696.43 700.50 700.20

6' - 12" SSPRC @ 2.0%

66' - 12" SSPRC @ 2.0%

15' - 12" SSPRC @ 2.0%

I-68.3 703.41 I-68.2 703.67 MH-68 703.42 I-68.1 703.66

699.41 699.53 699.95

6' - 12" SSPRC @ 2.0%

24' - 12" SSPRC @ 1.0%

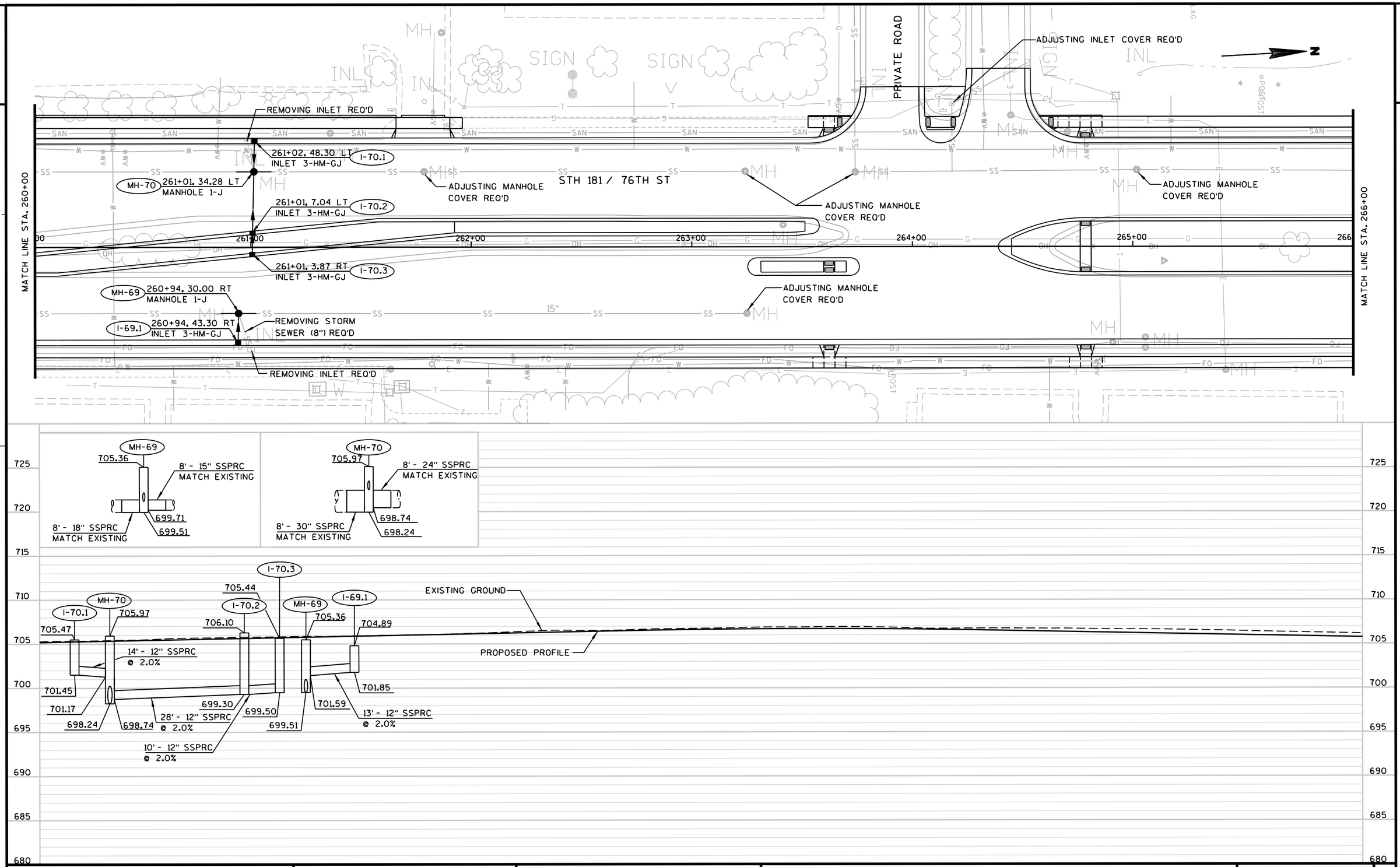
699.17 697.90 699.82

13' - 12" SSPRC @ 1.0%

PROJECT NO: 2140-08-73	HWY: STH 181	COUNTY: MILWAUKEE	STORM SEWER	SHEET 147

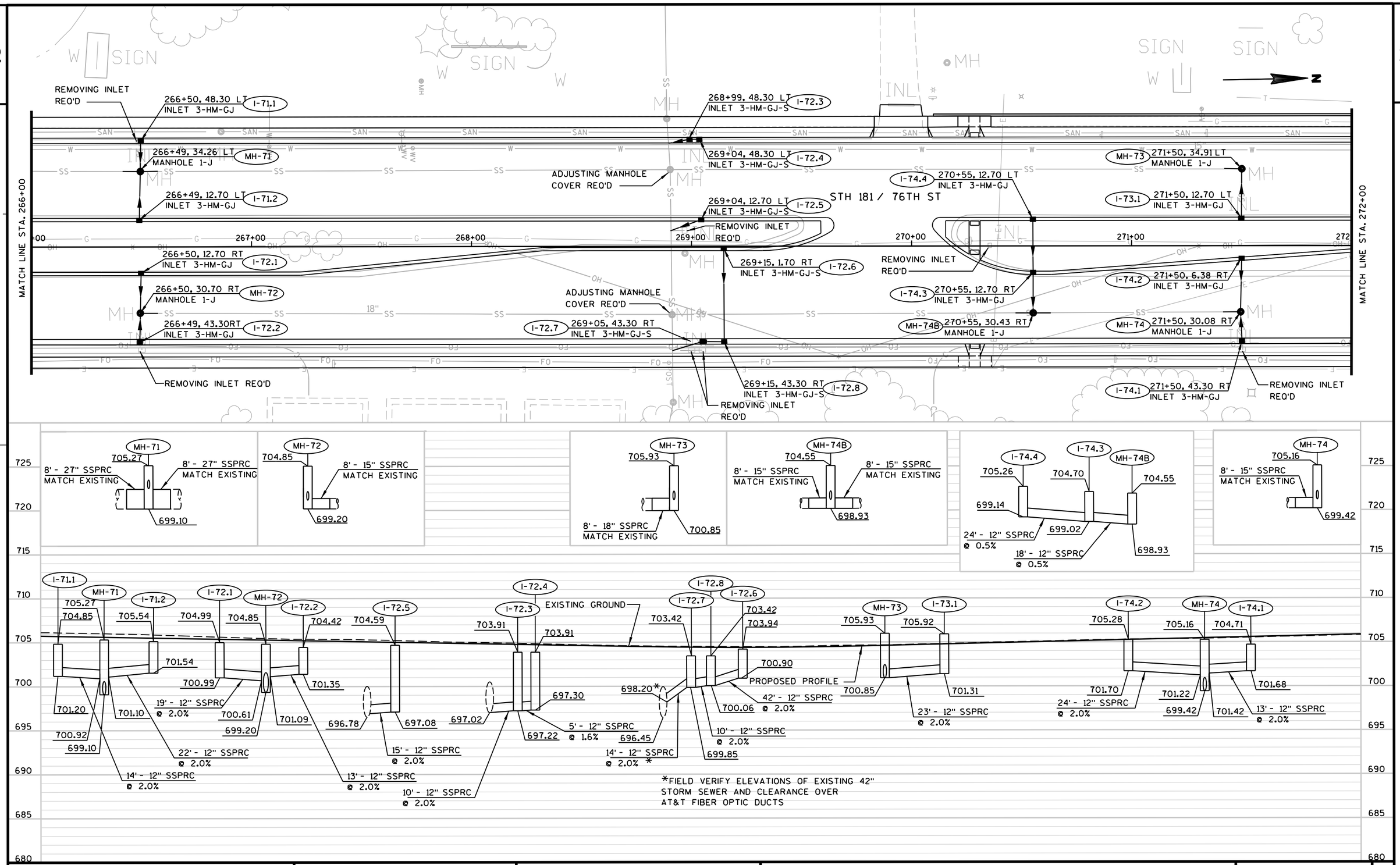
E

FILE NAME : s:\@sdi\051--100\089\099\micros\design\0873\022521_ss.dgn PLOT DATE : 10/17/2007 PLOT BY : ##...plotuser...## PLOT NAME : PLOT SCALE : ##.....plotscale.....## WISDOT/CADDS SHEET 41

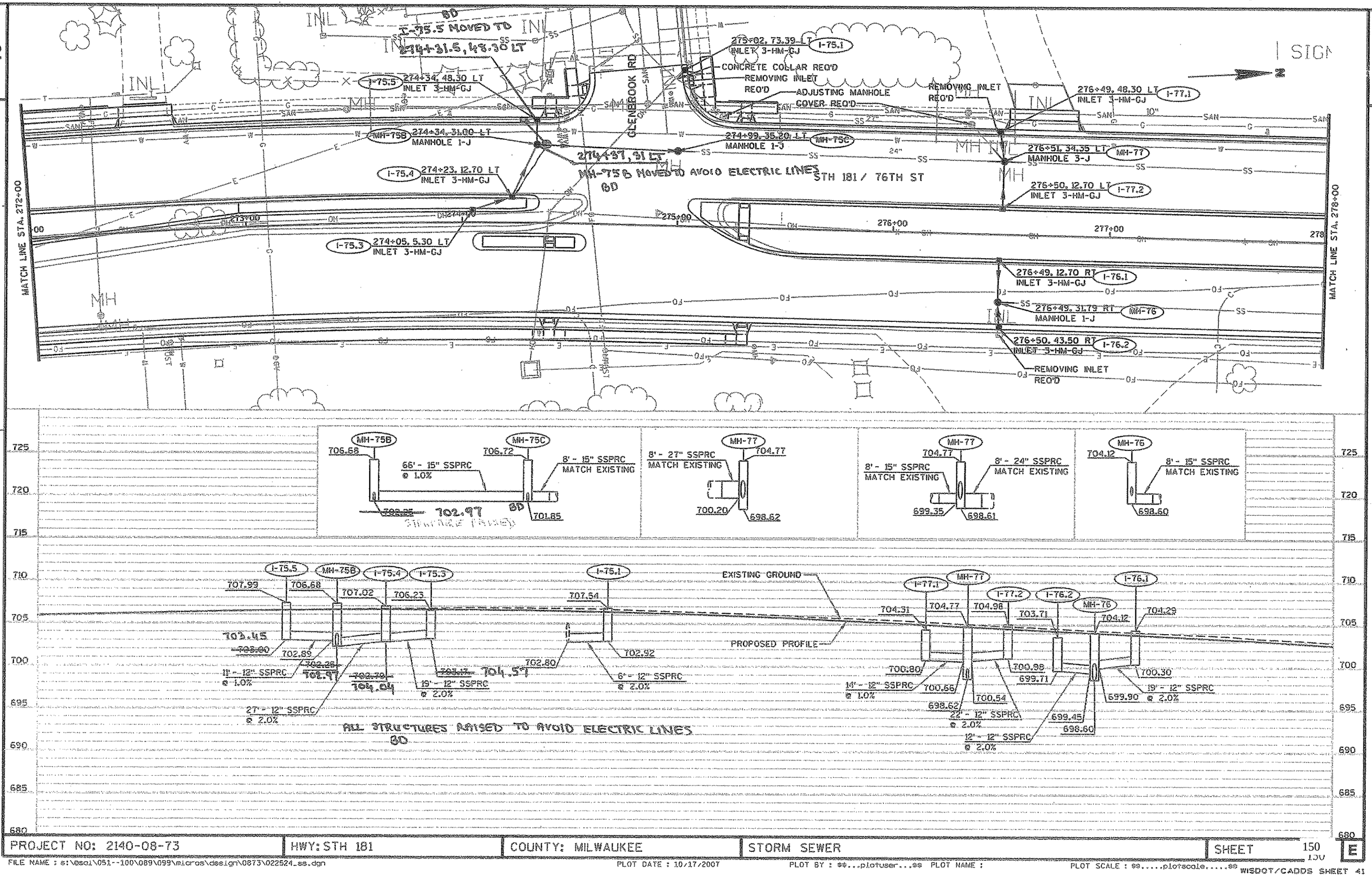


PROJECT NO: 2140-08-73	HWY: STH 181	COUNTY: MILWAUKEE	STORM SEWER	SHEET 148	E

2



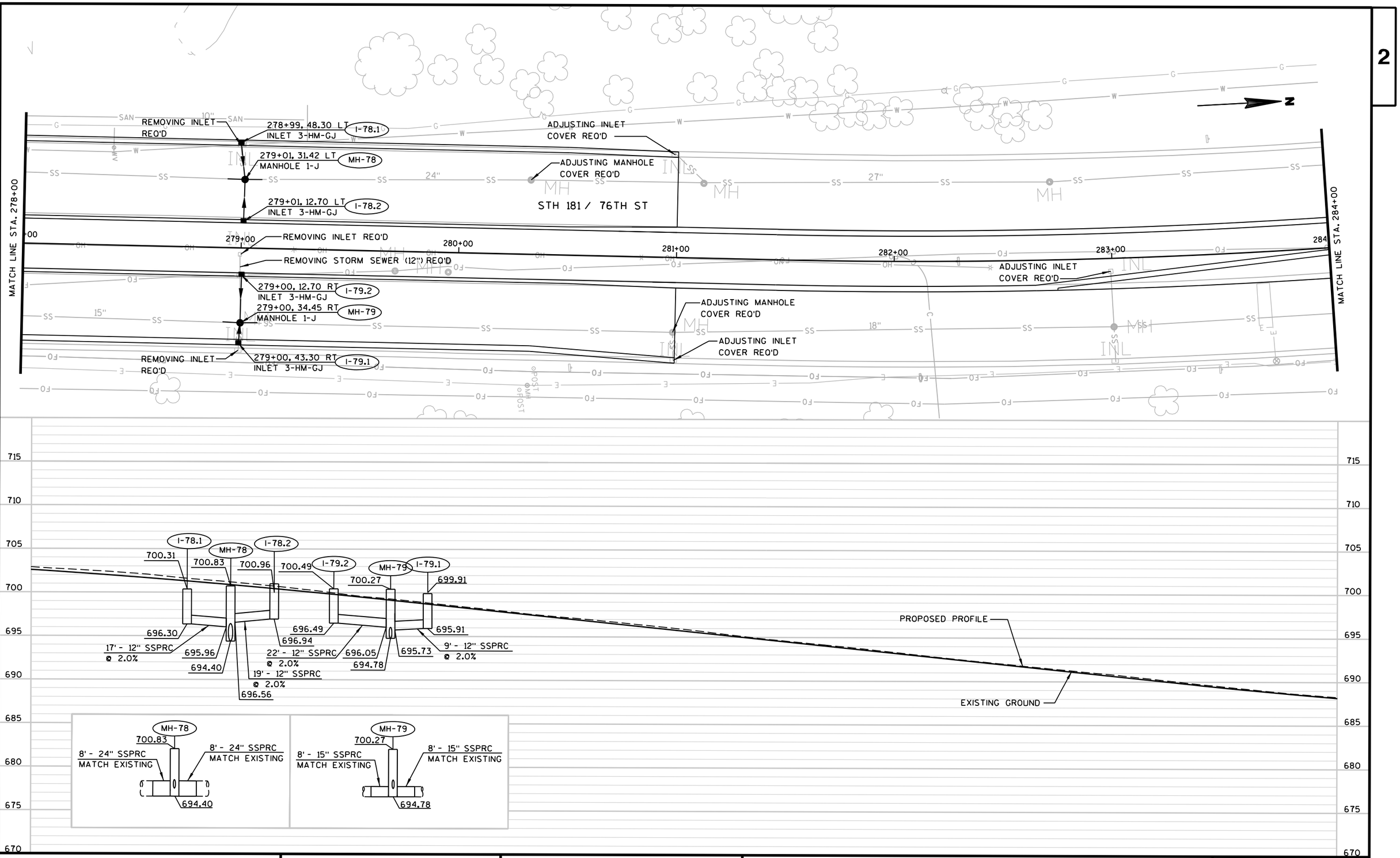
PROJECT NO: 2140-08-73	HWY: STH 181	COUNTY: MILWAUKEE	STORM SEWER	SHEET 149	E



PROJECT NO: 2140-08-73	HWY: STH 181	COUNTY: MILWAUKEE	STORM SEWER	SHEET 150

FILE NAME : S:\esol\051--100\089\099\micros\design\0873\022524_ss.dgn PLOT DATE : 10/17/2007 PLOT BY : $$...plotuser...$$ PLOT NAME : PLOT SCALE : $$.....plotscale.....$$ WISDOT/CADDS SHEET 41

2



PROJECT NO: 2140-08-73	HWY: STH 181	COUNTY: MILWAUKEE	STORM SEWER	SHEET 151 E

2

2

MATCH LINE STA. 284+00

STH 181 / 76TH ST

W. COUNTY LINE RD

N

284+00

285+00

286+00

287+00

SIGN

EXISTING GROUND

PROPOSED PROFILE

710

705

700

695

690

685

680

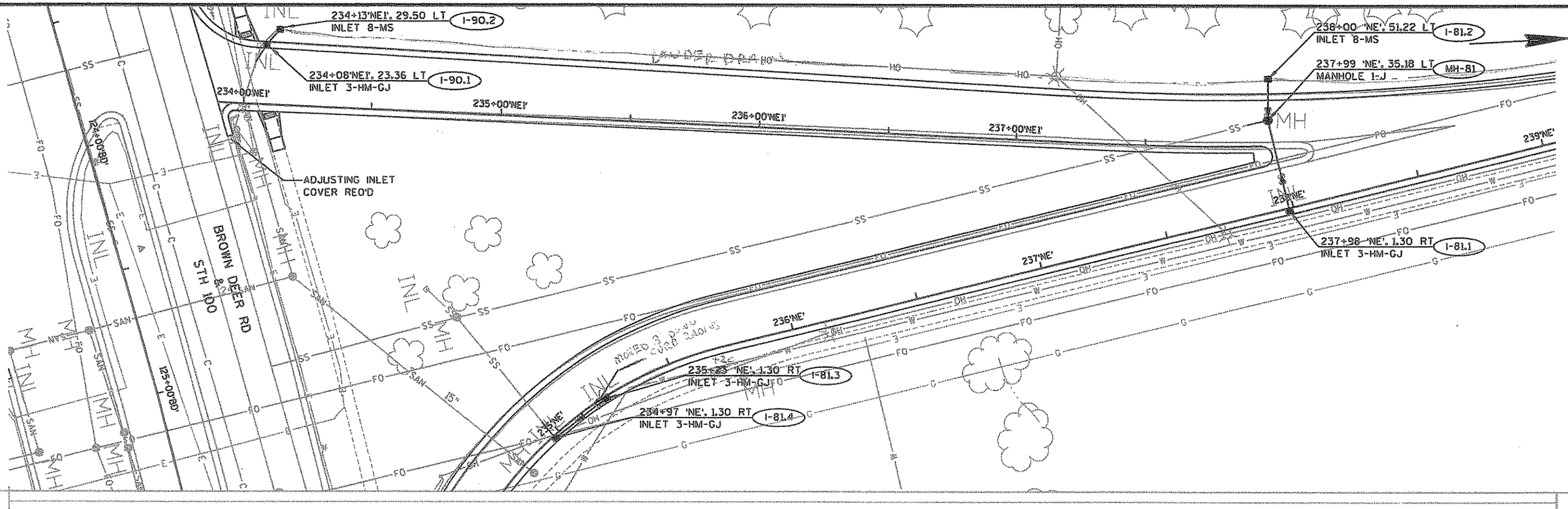
675

670

665

PROJECT NO: 2140-08-73	HWY: STH 181	COUNTY: MILWAUKEE	STORM SEWER	SHEET 152 E

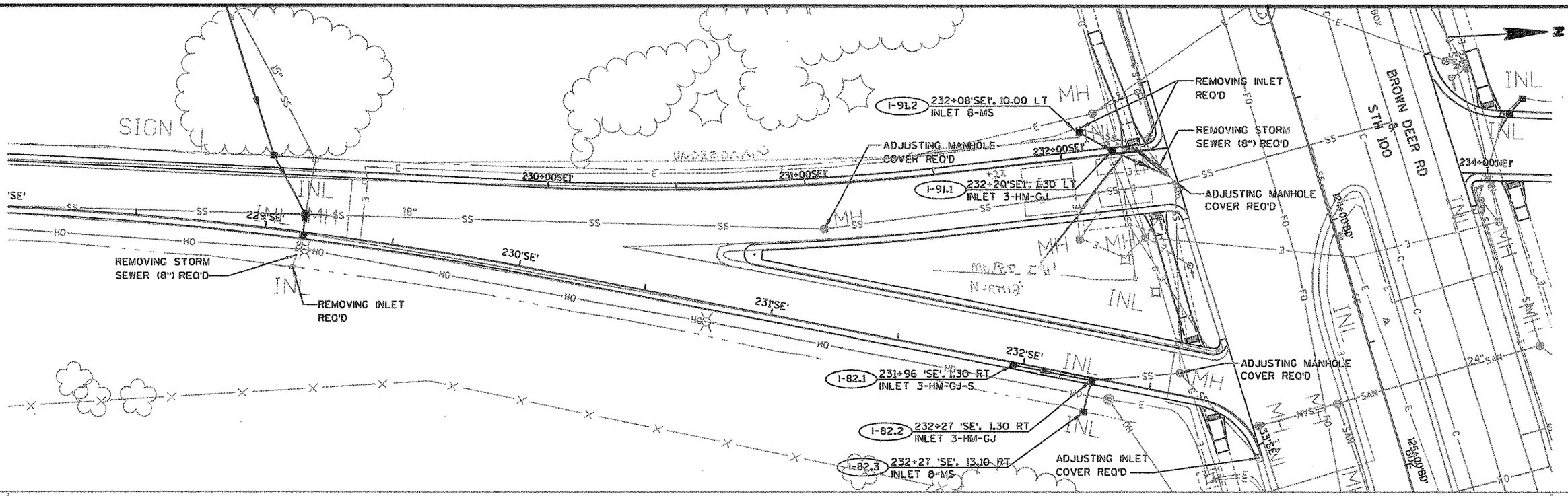
FILE NAME : s:\@sai\051--100\089\099\micros\design\0873\022526_ss.dgn PLOT DATE : 10/17/2007 PLOT BY : $$...plotuser...$$ PLOT NAME : PLOT SCALE : $$.....plotscale.....$$ WISDOT/CADDS SHEET 41

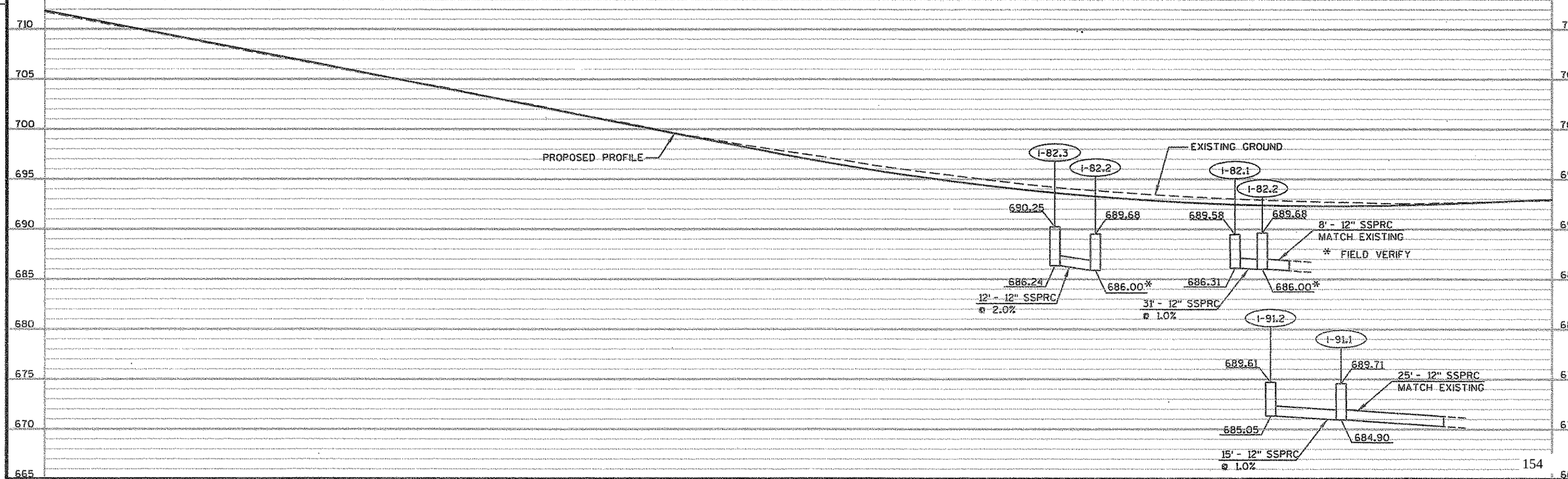


153

PROJECT NO: 2140-08-73	HWY: STH 181	COUNTY: MILWAUKEE	STORM SEWER	SHEET 153	E

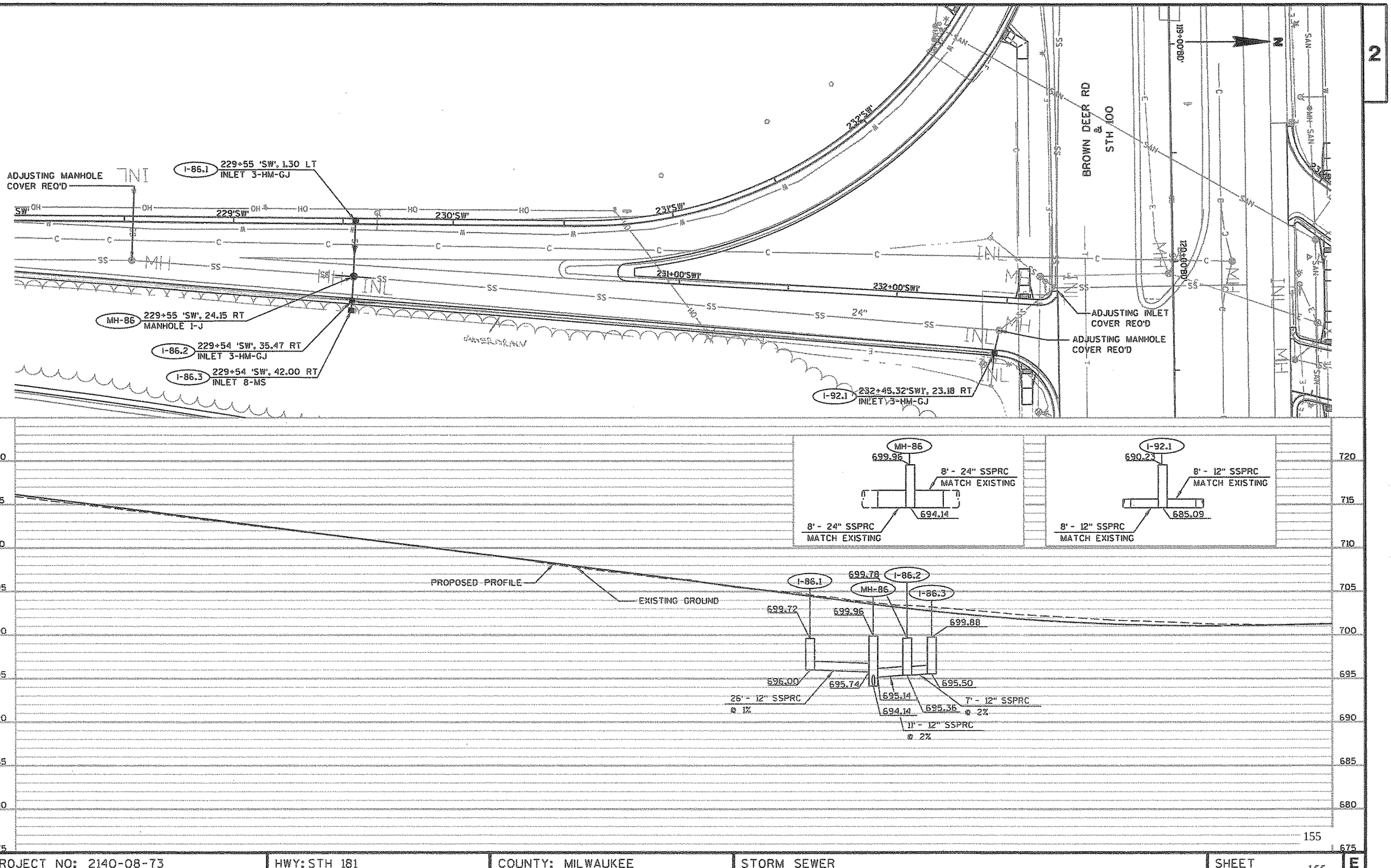
FILE NAME : s:\gsoi\051--100\089\099\micros\design\0873\022527_ss.dgn PLOT DATE : 10/17/2007 PLOT BY : $$...plotuser...$$ PLOT NAME : PLOT SCALE : $$.....plotscale.....$$





PROJECT NO: 2140-08-73	HWY: STH 181	COUNTY: MILWAUKEE	STORM SEWER	SHEET 154	E

FILE NAME : s:\@sgi\051--100\089\099\micros\design\0873\022528_ss.dgn PLOT DATE : 10/17/2007 PLOT BY : $$...plotuser...$$ PLOT NAME : PLOT SCALE : $$.....plotscale.....$$ WISDOT/CADDS SHEET 41



155

PROJECT NO: 2140-08-73	HWY: STH 181	COUNTY: MILWAUKEE	STORM SEWER	SHEET 155 E

ADJUSTING INLET COVER REQ'D

I-84.1 234+00 'NW', 1.30 LT INLET 3-HM-GJ

234+24 'NW', 1.30 LT INLET 3-HM-GJ I-84.2

MH-84 234+02 'NW', 44.78 RT MANHOLE 1-J

ADJUSTING MANHOLE COVER REQ'D

234+32'NW', 1.3 RT INLET 3-HM-GJ I-84.4

234+07'NW', 1.30 RT INLET 3-HM-GJ I-84.3

233+81.87'NW', 13.26 RT INLET 8-MS I-84.5

BROWN DEER RD STH 100

UNDERDRAIN

I-83.1 237+00 'NW', 18.00 LT INLET 8-MS

237+00 'NW', 1.30 LT INLET 3-HM-GJ I-83.2

MH-83 236+99 'NW', 8.13 RT MANHOLE 1-J

I-83.4 237+00 'NW', 26.00 RT INLET 8-MS

237+00 'NW', 19.50 RT INLET 3-HM-GJ I-83.3

234'NW' 235'NW' 236'NW' 237'NW' 238'NW'

234+00'NW' 235+00'NW' 236+00'NW'

EXISTING GROUND

PROPOSED PROFILE

I-84.5 689.00 685.22 28' - 12" SSPRC @ 1%

I-84.3 688.99 684.94 24' - 12" SSPRC @ 2%

I-84.2 689.07 685.98

I-84.1 689.00 685.50 46' - 12" SSPRC @ 2%

689.49 MH-84 684.58 684.08

I-84.3 688.99 684.94 18' - 12" SSPRC @ 2%

I-84.4 689.05 685.44 25' - 12" SSPRC @ 2%

MH-83 692.77

I-83.1 692.84 687.93 17' - 12" SSPRC @ 2%

I-83.2 692.42 687.60 10' - 12" SSPRC @ 2%

687.40

I-83.3 692.78 687.15

I-83.4 692.83 687.75 7' - 12" SSPRC @ 2% 687.62 11' - 12" SSPRC @ 2% 687.40

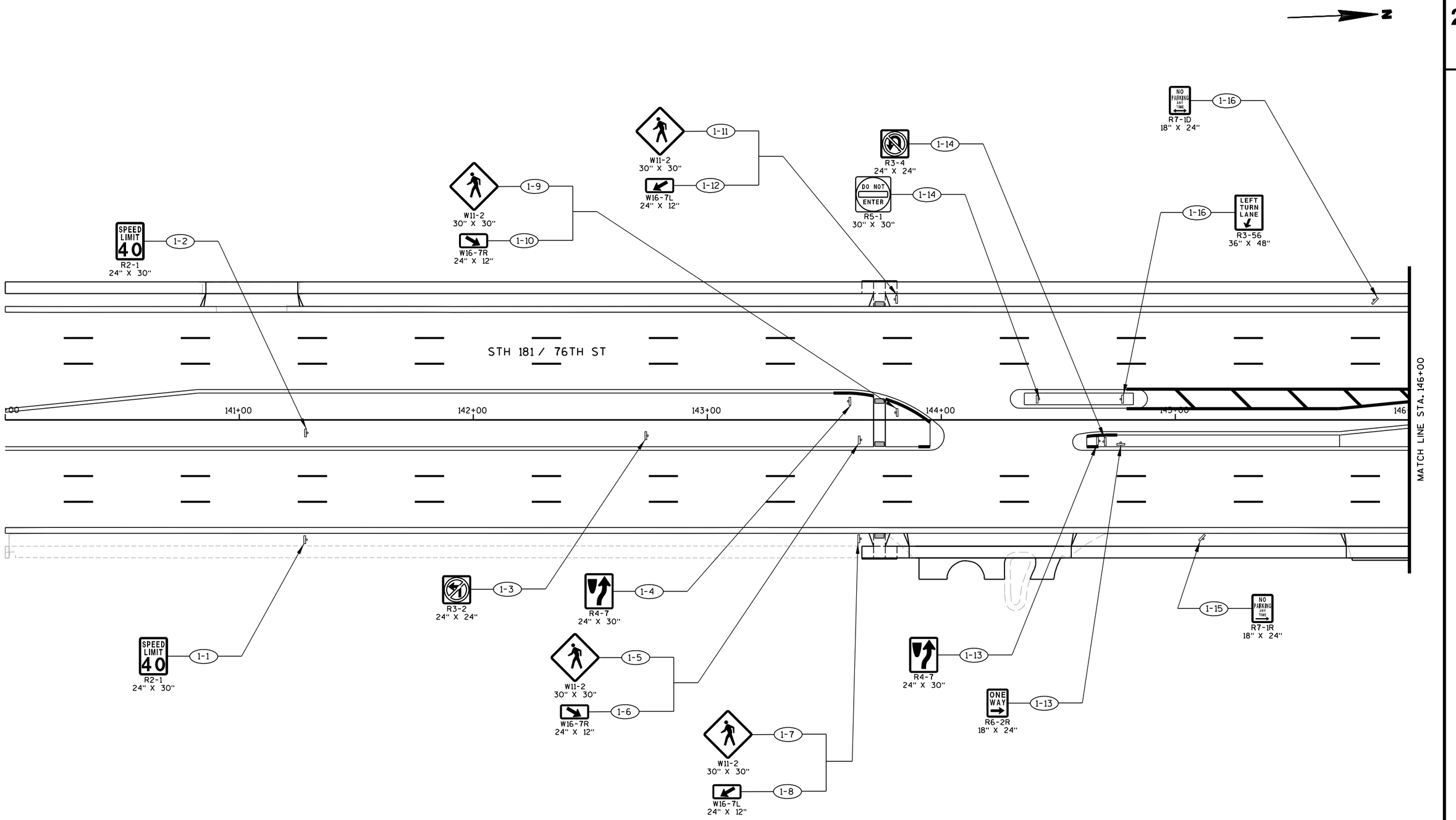
MH-84 689.49 8' - 15" SSPRC MATCH EXISTING 684.45 8' - 18" SSPRC MATCH EXISTING 684.08

MH-83 692.77 687.15 8' - 15" SSPRC MATCH EXISTING

705 700 695 690 685 680 675 670 665 660

PROJECT NO: 2140-08-73	HWY: STH 181	COUNTY: MILWAUKEE	STORM SEWER	SHEET 156	E

FILE NAME : s:\@sai\051--100\089\099\micros\design\0873\022530_ss.dgn PLOT DATE : 10/17/2007 PLOT BY : $$...plotuser...$$ PLOT NAME : PLOT SCALE : $$.....plotscale.....$$ WISDOT/CADDS SHEET 41



PROJECT NO: 2140-08-73	HWY: STH 181	COUNTY: MILWAUKEE	PERMANENT SIGNING	SHEET 157	E

2

N

STOP
R1-1
36" X 36"
2-3

LEFT TURN LANE
R3-55L
36" X 48"
2-4

NO PARKING ANY TIME
R7-1D
18" X 24"
2-6

SPEED LIMIT 40
R2-1
24" X 30"
2-7

M 3-3
24" X 12"
SOUTH
M1-6
24" X 24"
181
J4-1
24" X 36"
2-9

SPEED LIMIT 40
R2-1
24" X 30"
2-8

STH 181 / 76TH ST

MATCH LINE STA. 146+00

00

147+00

148+00

149+00

150+00

151+00

152

MATCH LINE STA. 152+00

2-2

W3-3
36" X 36"

2-1

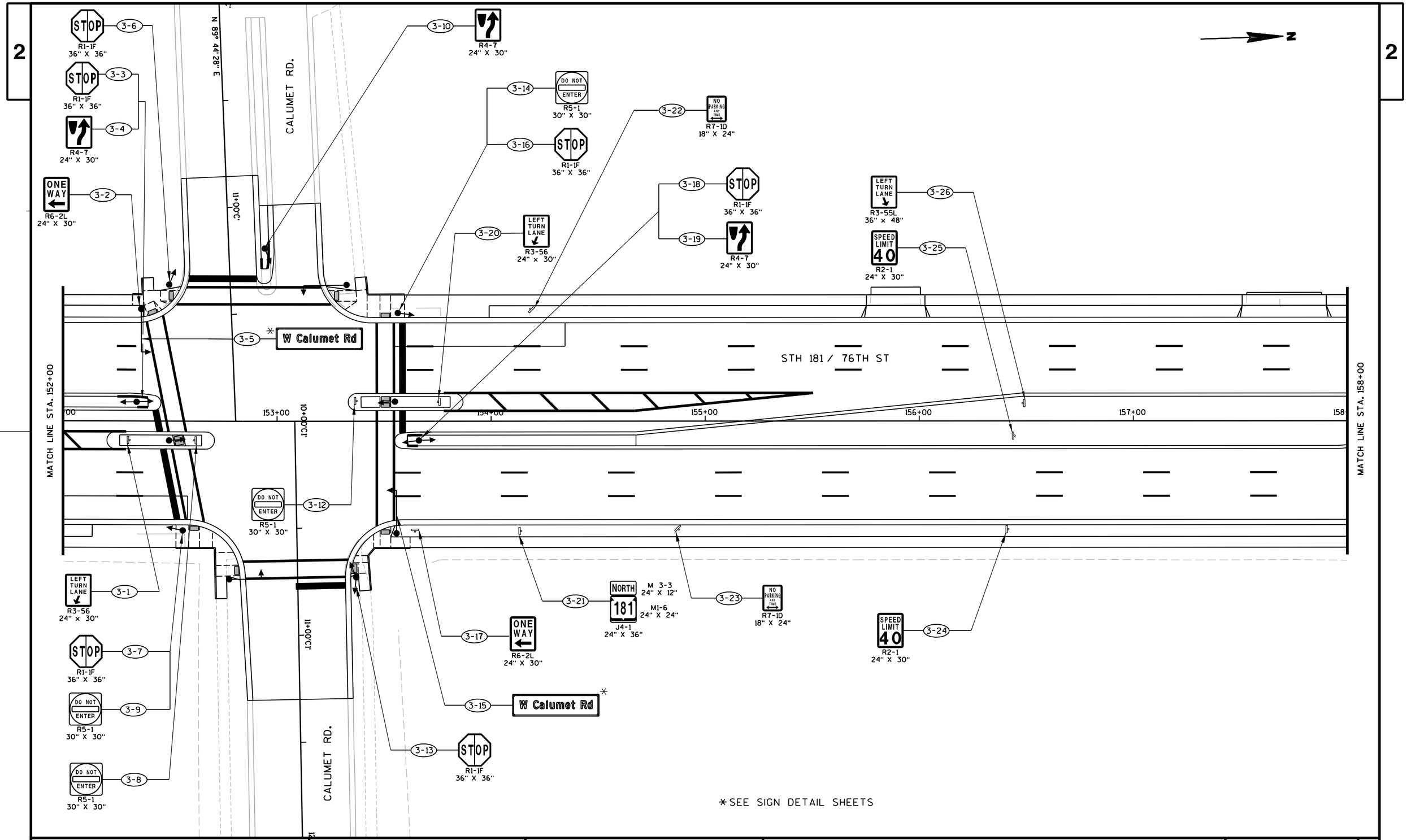
W3-3
36" X 36"

2-5

LEFT TURN LANE
R3-55L
36" X 48"

NO PARKING ANY TIME
R7-1D
18" X 24"
2-10

PROJECT NO: 2140-08-73	HWY: STH 181	COUNTY: MILWAUKEE	PERMANENT SIGNING	SHEET 158	E



PROJECT NO: 2140-08-73	HWY: STH 181	COUNTY: MILWAUKEE	PERMANENT SIGNING	SHEET	E

FILE NAME : s:\@SAI\051--100\089\099\Micros\DESIGN\0873\023203_ps.dgn PLOT DATE : 10/16/2007 PLOT BY : $$...plotuser...$$ PLOT NAME : PLOT SCALE : $$.....plotscale.....$$ WISDOT/CADDS SHEET 42

2

N

NO PARKING ANY TIME
R7-1D
18" X 24"
4-1

NO PARKING ANY TIME
R7-1D
18" X 24"
4-5

MATCH LINE STA. 158+00

159+00

160+00

161+00

162+00

163+00

164

MATCH LINE STA. 164+00

STH 181 / 76TH ST

R4-7
24" X 30"
4-2

R4-7
24" X 30"
4-3

NO PARKING ANY TIME
R7-1D
18" X 24"
4-4

PROJECT NO: 2140-08-73	HWY: STH 181	COUNTY: MILWAUKEE	PERMANENT SIGNING	SHEET 160	E

2

N

W11-2
30" X 30"
5-9

W16-7L
24" X 12"
5-10

STOP
R1-1
36" X 36"
5-11

NO PARKING ANY TIME
R7-1D
18" X 24"
5-5

SPEED LIMIT 40
R2-1
24" X 30"
5-4

SPEED LIMIT 40
R2-1
24" X 30"
5-3

ONE WAY
R6-2L
24" X 30"
5-12

R4-7
24" X 30"
5-16

STH 181 / 76TH ST

DO NOT ENTER
R5-1
30" X 30"
5-13

MATCH LINE STA. 164+00

00

165+00

166+00

167+00

168+00

169+00

170

MATCH LINE STA. 170+00

SPEED LIMIT 40
R2-1
24" X 30"
5-1

SPEED LIMIT 40
R2-1
24" X 30"
5-2

R4-7
24" X 30"
5-8

W11-2
30" X 30"
5-6

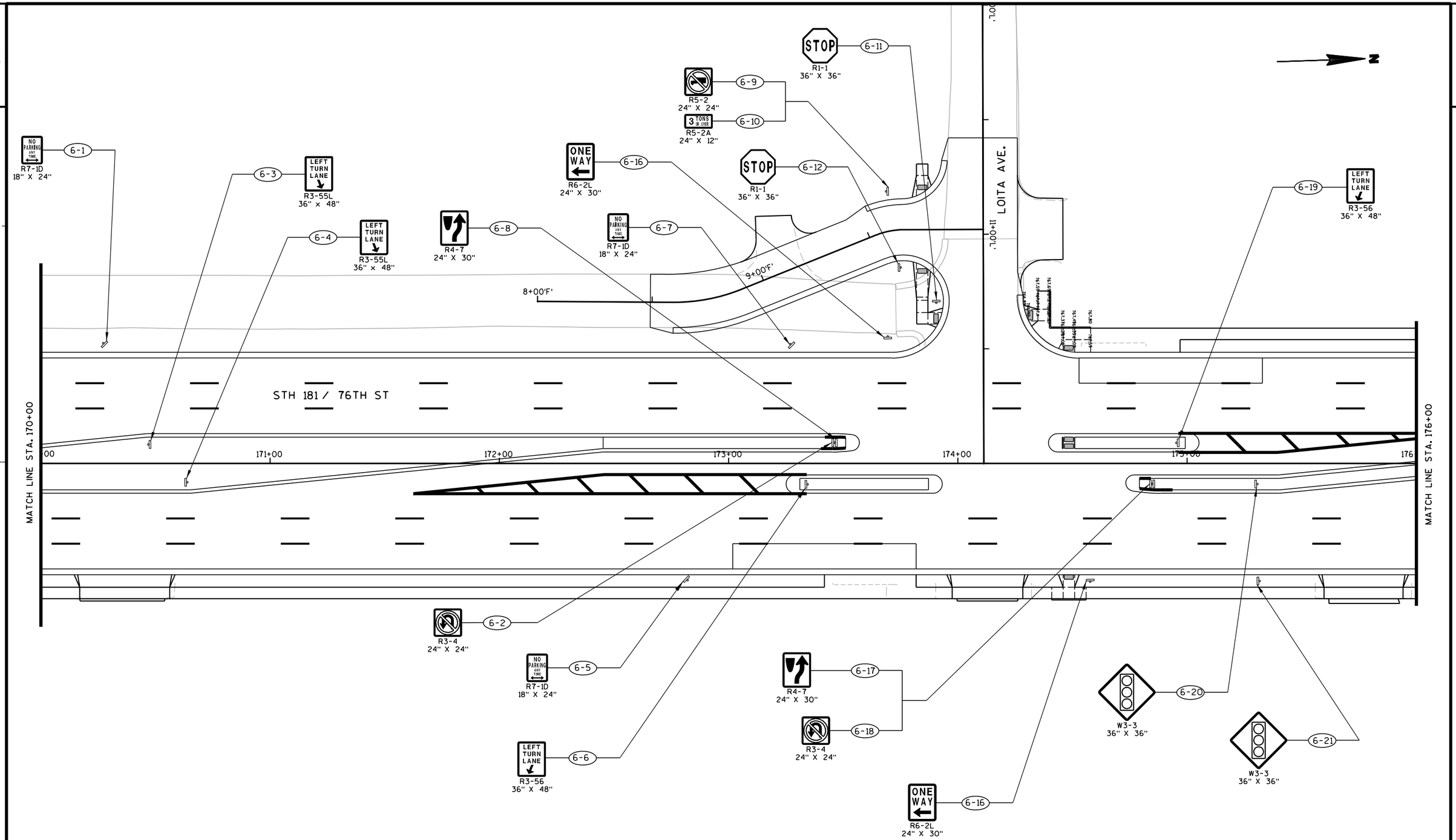
W16-7L
24" X 12"
5-7

ONE WAY
R6-2L
24" X 30"
5-14

NO PARKING ANY TIME
R7-1D
18" X 24"
5-15

PROJECT NO: 2140-08-73	HWY: STH 181	COUNTY: MILWAUKEE	PERMANENT SIGNING	SHEET	E

FILE NAME : s:\@sai\051--100\089\099\micros\design\0873\023205_ps.dgn PLOT DATE : 7/30/2007 PLOT BY : $$...plotuser...$$ PLOT NAME : PLOT SCALE : $$.....plotscale.....$$ WISDOT/CADDS SHEET 42



PROJECT NO: 2140-08-73	HWY: STH 181	COUNTY: MILWAUKEE	PERMANENT SIGNING	SHEET	E

FILE NAME : s:\@sai\051--100\089\099\micros\design\0873\023206_ps.dgn PLOT DATE : 7/30/2007 PLOT BY : $$...plotuser...$$ PLOT NAME : PLOT SCALE : $$.....plotscale.....$$ WISDOT/CADDS SHEET 42

2

N 89°53'04" E

BRADLEY RD.

11+00.08'

10+00.08'

11+00.08'

MATCH LINE STA. 176+00

MATCH LINE STA. 182+00

STH 181 / 76TH ST

BRADLEY RD.

177+00

178+00

179+00

180+00

181+00

182

7-1 NO PARKING ANY TIME — R7-1D 18" X 24"

7-2 NO PARKING ANY TIME — R7-1D 18" X 24"

7-3 LEFT TURN LANE — R3-55L 36"X 48"

7-4 SPEED LIMIT 40 — R2-1 24" X 30"

7-5 SPEED LIMIT 40 — R2-1 24" X 30"

7-6 M 3-3 24" X 12" / M1-6 24" X 24" / SOUTH 181 — J4-1 24" X 36"

7-7 STOP — R1-1F 36" X 36"

7-8 — R4-7 24" X 30"

7-9 LEFT TURN LANE — R3-56 24" X 30"

7-10 ONE WAY — R6-2L 24" X 30"

7-11 W Bradley Rd *

7-12 DO NOT ENTER — R5-1 30" X 30"

7-13 STOP — R1-1F 36" X 36"

7-14 STOP — R1-1F 36" X 36"

7-15 STOP — R1-1F 36" X 36"

7-16 — R4-7 24" X 30"

7-17 STOP — R1-1F 36" X 36"

7-18 — R4-7 24" X 30"

7-19 DO NOT ENTER — R5-1 30" X 30"

7-20 STOP — R1-1F 36" X 36"

7-21 W Bradley Rd *

7-22 ONE WAY — R6-2L 24" X 30"

7-23 STOP — R1-1F 36" X 36"

7-24 — R4-7 24" X 30"

7-25 LEFT TURN LANE — R3-56 24" X 30"

7-26 NORTH 181 — M3-1 24" X 12" / M1-6 24" X 24" / J4-1 24" X 36"

7-27 SPEED LIMIT 40 — R2-1 24" X 30"

7-28 SPEED LIMIT 40 — R2-1 24" X 30"

7-31 DO NOT ENTER — R5-1 30" X 30"

* SEE SIGN DETAIL SHEETS

PROJECT NO: 2140-08-73	HWY: STH 181	COUNTY: MILWAUKEE	PERMANENT SIGNING	SHEET 163	E

2

* SEE SIGN DETAIL SHEETS

8-1 NO PARKING ANY TIME R7-1D 18" X 24"

8-2 NO PARKING ANY TIME R7-1D 18" X 24"

8-3 LEFT TURN LANE R3-55L 36"X 48"

8-4 R4-7 24" X 30"

8-5 STOP R1-1F 36" X 36"

8-6 STOP R1-1F 36" X 36"

8-7 ONE WAY R6-2L 24" X 30"

8-8 * W Tower Ave

8-9 STOP R1-1F 36" X 36"

8-10 * W Tower Ave

8-11 ONE WAY R6-2L 24" X 30"

8-12 STOP R1-1F 36" X 36"

8-13 STOP R1-1F 36" X 36"

8-14 R4-7 24" X 30"

8-15 LEFT TURN LANE R3-56 24" X 30"

8-16 SPEED LIMIT 40 R2-1 24" X 30"

8-17 SPEED LIMIT 40 R2-1 24" X 30"

8-18 NO PARKING ANY TIME R7-1D 18" X 24"

8-19 LEFT TURN LANE R3-55L 36"X 48"

STH 181 / 76TH ST

TOWER AVE.

N 89° 46' 17" E 11+00'T.

POT 12+00.00'T'

183+00 184+00 185+00 186+00 187+00

MATCH LINE STA. 182+00

MATCH LINE STA. 188+00

PROJECT NO: 2140-08-73	HWY: STH 181	COUNTY: MILWAUKEE	PERMANENT SIGNING	SHEET 164	E

2

N

9-1
LEFT TURN LANE
R3-5SL
36" X 48"

9-2
W3-3
36" X 36"

9-4
W3-3
36" X 36"

9-5
NO PARKING ANY TIME
R7-1D
18" X 24"

MATCH LINE STA. 188+00

188+00

189+00

190+00

191+00

192+00

193+00

194

STH 181 / 76TH ST

MATCH LINE

9-3
NO PARKING ANY TIME
R7-1D
18" X 24"

PROJECT NO: 2140-08-73	HWY: STH 181	COUNTY: MILWAUKEE	PERMANENT SIGNING	SHEET 165	E

2

N

10-4

NO PARKING ANY TIME

R7-1D
18" X 24"

SPEED LIMIT 40

R2-1
24" X 30"

10-5

STH 181 / 76TH ST

MATCH LINE STA. 194+00

195+00

196+00

197+00

198+00

199+00

200

MATCH LINE STA. 200+00

10-3

NO PARKING ANY TIME

R7-1D
18" X 24"

10-6

SPEED LIMIT 40

R2-1
24" X 30"

PROJECT NO: 2140-08-73	HWY: STH 181	COUNTY: MILWAUKEE	PERMANENT SIGNING	SHEET	E

FILE NAME : s:\@sai\051--100\089\099\micros\design\0873\023210_ps.dgn PLOT DATE : 7/30/2007 PLOT BY : $$...plotuser...$$ PLOT NAME : PLOT SCALE : $$.....plotscale.....$$ WISDOT/CADDS SHEET 42

2

2

N

STH 181 / 76TH ST

MATCH LINE STA. 200+00

MATCH LINE STA. 206+00

200+00

201+00

202+00

203+00

204+00

205+00

206

11+00'

13+00'

N 89° 22' 38" E

S 89° 05' 49" E

DEAN RD.

11-1 — R7-1D (NO PARKING ANY TIME) 18" X 24"

11-2 — W3-3 36" X 36"

11-3 — W3-3 36" X 36"

11-4 — R3-55L (LEFT TURN LANE) 36" X 48"

11-5 — R3-2 24" X 24"

11-6 — R7-1D (NO PARKING ANY TIME) 18" X 24"

11-7 — R2-1 (SPEED LIMIT 40) 24" X 30"

11-8 — R2-1 (SPEED LIMIT 40) 24" X 30"

11-9 — R3-56 (LEFT TURN LANE) 24" X 30"

11-10 — R1-1F (STOP) 36" X 36"

11-11 — R4-7 24" X 30"

11-12 — R6-2L (ONE WAY) 24" X 30"

11-13 — * W Dean Rd

11-14 — R1-1F (STOP) 36" X 36"

11-15 — R1-1F (STOP) 36" X 36"

11-16 — R5-1 (DO NOT ENTER) 30" X 30"

11-17 — R5-1 (DO NOT ENTER) 30" X 30"

* SEE SIGN DETAIL SHEETS

PROJECT NO: 2140-08-73	HWY: STH 181	COUNTY: MILWAUKEE	PERMANENT SIGNING	SHEET 167	E

2

* SEE SIGN DETAIL SHEETS

N

SERVITE DR.

MATCH LINE STA. 206+00

DEAN RD.

STH 181 / 76TH ST

MATCH LINE STA. 212+00

207+00 208+00 209+00 210+00 211+00 212

12-3 DO NOT ENTER R5-1 36" X 36"

12-4 STOP R1-1F 36" X 36"

12-19 DO NOT ENTER R5-1 36" X 36"

12-6 STOP R1-1F 36" X 36"

12-7 R4-7 36" X 48"

12-8 LEFT TURN LANE R3-56 24" X 30"

12-10 LEFT TURN LANE R3-55L 36" X 48"

12-15 NO PARKING ANY TIME R7-1D 24" X 30"

12-18 W3-3 36" X 36"

12-17 W3-3 36" X 36"

12-5 ONE WAY R6-2L 24" X 30"

12-9 SOUTH 181 M 3-3 30" X 15" M1-6 36" X 36" J4-1 36" X 51"

12-11 NO PARKING ANY TIME R7-1D 24" X 30"

12-2 W Dean Rd *

12-12 M 2-1 30" X 21" M1-6 36" X 36" JCT 100 J1-1 36" X 57"

12-14 M 2-1 30" X 21" M1-6 36" X 36" JCT 100 J1-1 36" X 57"

12-16 SPEED LIMIT 45 R2-1 36" X 48"

12-13 * W Brown Deer Rd 8800 N M1-94A 96" X 24"

12-1 STOP R1-1F 36" X 36"

PROJECT NO: 2140-08-73	HWY: STH 181	COUNTY: MILWAUKEE	PERMANENT SIGNING	SHEET 168	E

2

N

13-2
R4-7
36" X 48"

13-5
ONE WAY
R6-2L
24" X 30"

13-7
DO NOT ENTER
R5-1
36" X 36"

13-9
LEFT TURN LANE
R3-56
36" X 48"

13-11
NO PARKING ANY TIME
R7-1D
24" X 30"

13-17
LEFT TURN LANE
R3-55L
36" X 48"

13-19
SPEED LIMIT 45
R2-1
36" X 48"

13-20
SPEED LIMIT 45
R2-1
36" X 48"

STH 181 / 76TH ST

MATCH LINE STA. 212+00

00

213+00

214+00

215+00

216+00

217+00

218

218'S

MATCH LINE STA 218+00

13-8
R4-7
36" X 48"

13-1
RIGHT LANE MUST TURN RIGHT
R3-7R
36" X 36"

13-10
100 ONLY
J12-1 (MODIFIED)
36" X 61"
* *

13-6
STOP
R1-1
36" X 36"

76TH PLACE

13-12
M1-6
36" X 36"
100
M 5-2R
30" X 30"
J12-1
36" X 66"

13-13
M1-6
36" X 36"
100
M 5-2R
30" X 30"
J12-1
36" X 66"

13-14
NO PARKING ANY TIME
R7-1D
24" X 30"

13-16
Mequon
Brown Deer
Menomonee Falls
D1-3
108" X 36"
*

13-15
Mequon
Brown Deer
Menomonee Falls
D1-3
108" X 36"

13-21
100
M1-6
36" X 36"
M 5-2R
30" X 30"
J12-1
36" X 66"

13-18
RIGHT LANE MUST TURN RIGHT
R3-7R
48" X 48"

* = SEE SIGN DETAIL SHEETS

* * = SEE CONSTRUCTION DETAIL SHEETS

PROJECT NO: 2140-08-73	HWY: STH 181	COUNTY: MILWAUKEE	PERMANENT SIGNING	SHEET	E

FILE NAME : s:\@SAI\051--100\089\099\Micros\DESIGN\0873\023213_ps.dgn PLOT DATE : 10/12/2007 PLOT BY : $$...plotuser...$$ PLOT NAME : PLOT SCALE : $$.....plotscale.....$$ WISDOT/CADDS SHEET 42

2

N

NO PARKING ANY TIME
R7-1D
18" X 24"

14-2

219'SW' 220'SW' 221'SW' 222'SW' 223'SW' 224'SW'

STH 181 / 76TH ST

MATCH LINE STA. 218+00

219+00 220+00 221+00 222+00 223+00

MATCH LINE STA. 224+00

219'SE' 220'SE' 221'SE' 222'SE' 223'SE'

NO PARKING ANY TIME
R7-1D
24" X 30"

14-1

PROJECT NO: 2140-08-73	HWY: STH 181	COUNTY: MILWAUKEE	PERMANENT SIGNING	SHEET 170	E

2

N

15-1
W4-1
36" X 36"

225'SW'
226'SW'
227'SW'
228'SW'
229
MATCH LINE STA. 229+00 'SW'

15-8
NO PARKING ANY TIME
R7-1D
24" X 30"

SPEED LIMIT 45
15-3
R2-1
36" X 48"

STH 181 / 76TH ST

Pl 225+04.9 'SE'

MATCH LINE STA. 224+00

225+00
226+00
227+00
228+00
229+00
230

MATCH LINE STA. 230+00

15-4
SPEED LIMIT 45
R2-1
36" X 48"

15-7
NO PARKING ANY TIME
R7-1D
24" X 30"

15-11
WRONG WAY
R5-1A
30" X 18"

224'SE'
225'SE'
226'SE'
227'SE'

MATCH LINE STA. 228+00 'SE'

M1-6
24" X 24"
100
M 6-2
21" X 21"
J13-1
24" X 45"
15-2

15-12
EXIT
E5-1
72" X 60"

M3-4/M3-2
24" X 12"
WEST EAST
M1-6
24" X 24"
100 100
M5-1L/M5-2R
21" X 21"
J2-2
48" X 57"
15-6

15-5
W3-3
30" X 30"

ONLY
15-10
R3-8A
30" X 36"

15-9
Menomonee Falls
Brown Deer
D1-2
108" X 30"
*

* = SEE SIGN DETAIL SHEETS

PROJECT NO: 2140-08-73	HWY: STH 181	COUNTY: MILWAUKEE	PERMANENT SIGNING	SHEET	E

FILE NAME : s:\@SAI\051--100\089\099\Micros\DESIGN\0873\023215_ps.dgn PLOT DATE : 10/17/2007 PLOT BY : $$...plotuser...$$ PLOT NAME : PLOT SCALE : $$.....plotscale.....$$ WISDOT/CADDS SHEET 42

2

N

16-1
NO PARKING ANY TIME
R7-1D
24" X 30"

BROWN DEER RD & STH 100

16-8
NO PARKING ANY TIME
R7-1D
24" X 30"

STH 181 / 76TH ST

12+00 BD

MATCH LINE STA. 230+00

231+00

232+00

233+00

234+00

235+00

236

MATCH LINE STA. 236+00

16-2
NO PARKING ANY TIME
R7-1D
24" X 30"

123+00 BD

16-7
NO PARKING ANY TIME
R7-1D
24" X 30"

PROJECT NO: 2140-08-73	HWY: STH 181	COUNTY: MILWAUKEE	PERMANENT SIGNING	SHEET	E

FILE NAME : s:\@sai\051--100\089\099\micros\design\0873\023216_ps.dgn PLOT DATE : 7/30/2007 PLOT BY : $$...plotuser...$$ PLOT NAME : PLOT SCALE : $$.....plotscale.....$$ WISDOT/CADDS SHEET 42

2

MATCH LINE STA. 237+00 'NW'

238'NW'

239'NW'

240'NW'

241'NW'

242'NW'

17-7

EAST | WEST
100 | 100

M3-2/M3-4
24" X 12"

M1-6
24" X 24"

M5-1L/M5-1R
21" X 21"

J2-2
48" X 57"

17-8

W3-3
36" X 36"

17-2

SPEED LIMIT 45

R2-1
36" X 48"

17-4

NO PARKING ANY TIME

R7-1D
24" X 30"

STH 181 / 76TH ST

MATCH LINE STA. 236+00

237+00

238+00

239+00

240+00

241+00

MATCH LINE STA. 242+00

17-1

SPEED LIMIT 45

R2-1
36" X 48"

17-3

NO PARKING ANY TIME

R7-1D
24" X 30"

17-5

W4-1
36" X 36"

17-9

W3-3
36" X 36"

241'NE'

240'NE'

239'NE'

238'NE'

237'NE'

236+00'NE'

237+00'NE'

17-11

W3-3
36" X 36"

17-10

W3-3
36" X 36"

17-6

YIELD

R1-2
36" X 31"

PROJECT NO: 2140-08-73	HWY: STH 181	COUNTY: MILWAUKEE	PERMANENT SIGNING	SHEET 173	E

2

N

18-3 — 100 M1-6 24" X 24" / M 5-2R 21" X 21" / J12-1 24" X 45"

18-8 — 100 M1-6 24" X 24" / M 5-2R 21" X 21" / J12-1 24" X 45"

18-2 — NO PARKING ANY TIME R7-1D 18" X 24"

18-9 — EXIT E5-1 72" X 60"

18-7 — NO PARKING ANY TIME R7-1D 24" X 30"

243'NW' 244'NW' 245'NW' 246'NW' 247'NW'

STH 181 / 76TH ST

MATCH LINE STA. 242+00

243+00 244+00 245+00 246+00 247+00 248

MATCH LINE STA. 248+00

242'NE' 243'NE'

18-1 — YIELD R1-2 36" X 31"

18-4 — LEFT TURN LANE R3-55L 36" X 48"

18-6 — NO PARKING ANY TIME R7-1D 24" X 30"

* = SEE SIGN DETAIL SHEETS

PROJECT NO: 2140-08-73	HWY: STH 181	COUNTY: MILWAUKEE	PERMANENT SIGNING	SHEET 174	E

2

19-1 — Wauwatosa / Brown Deer / Menomonee Falls — D1-3, 108" X 36"

19-12 — RIGHT LANE MUST TURN RIGHT — R3-7R, 36" X 36"

19-13 — NO PARKING ANY TIME — R7-1D, 18" X 24"

19-14 — STOP — R1-1F, 36" X 36"

19-5 — STOP — R1-1F, 36" X 36"

19-6 — NO TURN ON RED — R10-11B, 24" X 24"

19-15 — 2' MIN. MOUNTING HEIGHT ABOVE THE ROADWAY — W012-1D, 24" X 24"

19-18 — ONLY ONLY ONLY — R3-8R, 30" X 54"

19-22 — STOP — R1-1F, 36" X 36"

19-3 — JCT 100 — J1-1, 36" X 57"; M 2-1, 30" X 21"; M1-6, 36" X 36"

19-29 — NO PARKING ANY TIME — R7-1D, 24" X 30"

19-4 — W Brown Deer Rd 8800 N — M1-94A, 96" X 24" *

19-8 — STOP — R1-1F, 36" X 36"

19-9 — R4-7, 36" X 48"

19-21 — STOP — R1-1F, 36" X 36"

PRIVATE ROAD

STH 181 / 76TH ST

19-16 — ONE WAY — R6-2L, 24" X 30"

MATCH LINE STA. 248+00

249+00

250+00

251+00

252+00

253+00

254

MATCH LINE STA. 254+00

19-11 — DO NOT ENTER — R5-1, 36" X 36"

19-2 — NO PARKING ANY TIME — R7-1D, 24" X 30"

19-7 — LEFT TURN LANE — R3-56, 24" X 30"

19-10 — STOP — R1-1F, 36" X 36"

19-20 — R4-7, 36" X 48"

19-19 — ONE WAY — R6-2L, 24" X 30"

19-24 — LEFT TURN LANE — R3-55L, 36" X 48"

19-23 — NORTH 181 — J4-1, 30" X 51"; M3-1, 30" X 15"; M1-6, 36" X 36"

19-25 — SPEED LIMIT 45 — R2-1, 36" X 48"

19-27 — Northridge Lakes Blvd — M1-94A, 78" X 24" *

19-26 — SPEED LIMIT 45 — R2-1, 36" X 48"

* = SEE SIGN DETAIL SHEETS

PROJECT NO: 2140-08-73	HWY: STH 181	COUNTY: MILWAUKEE	PERMANENT SIGNING	SHEET 175	E

2

N

STH 181 / 76TH ST

PRIVATE ROAD

NORTHRIDGE LAKES BLVD.

MATCH LINE STA. 254+00

MATCH LINE STA. 260+00

255+00

256+00

257+00

259+00

11+00 N.L.T.

12+00 N.L.T.

10+00 N.L.T.

20-1 — NO PARKING ANY TIME — R7-1D 24" X 30"

20-2 — M 3-3 30" X 15" — SOUTH 181 — M1-6 36" X 36" — J4-1 36" X 51"

20-3 — LEFT TURN LANE — R3-56 24" X 30"

20-4 — W012-1D 30" X 30" 2' MIN. MOUNTING HEIGHT ABOVE THE ROADWAY

20-5 — R4-7 36" X 48"

20-6 — STOP — R1-1F 36" X 36"

20-7 — ONE WAY — R6-2L 24" X 30"

20-8 — STOP — R1-1F 36" X 36"

20-9 — YIELD — R1-2 36" X 31"

20-10 — DO NOT ENTER — R5-1 36" X 36"

20-11 — DO NOT ENTER — R5-1 36" X 36"

20-12 — STOP — R1-1F 36" X 36"

20-13 — STOP — R1-1F 36" X 36"

20-14 — R4-7 24" X 30"

20-15 — STOP — R1-1F 36" X 36"

20-16 — R4-7 24" X 30"

20-17 — DO NOT ENTER — R5-1 36" X 36"

20-18 — NO PARKING ANY TIME — R7-1D 18" X 24"

20-19 — STOP — R1-1F 36" X 36"

20-20 — STOP — R1-1F 36" X 36"

20-21 — ONE WAY — R6-2L 24" X 30"

20-22 — R4-7 36" X 48"

20-23 — STOP — R1-1F 36" X 36"

20-24 — LEFT TURN LANE — R3-56 24" X 30"

20-25 — DO NOT ENTER — R5-1 36" X 36"

PROJECT NO: 2140-08-73	HWY: STH 181	COUNTY: MILWAUKEE	PERMANENT SIGNING	SHEET	E

FILE NAME : s:\@sai\051--100\089\099\micros\design\0873\023220_ps.dgn PLOT DATE : 7/30/2007 PLOT BY : $$...plotuser...$$ PLOT NAME : PLOT SCALE : $$.....plotscale.....$$ WISDOT/CADDS SHEET 42

2

N

PRIVATE ROAD

STH 181 / 76TH ST

MATCH LINE STA. 260+00

MATCH LINE STA. 266+00

261+00 262+00 263+00 264+00 265+00

STOP R1-1 36" X 36" — 21-12

STOP R1-1 36" X 36" — 21-11

STOP R1-1 36" X 36" — 21-2

LEFT TURN LANE R3-55L 36" X 48" — 21-3

R4-7 36" X 48" — 21-9

R4-7 24" X 30" — 21-13

LEFT TURN LANE R3-55L 36" X 48" — 21-5

ONE WAY R6-2L 24" X 30" — 21-4

NO PARKING ANY TIME R7-1D 24" X 31" — 21-6

LEFT TURN LANE R3-56 36" X 48" — 21-8

DO NOT ENTER R5-1 36" X 36" — 21-10

R4-7 24" X 30" — 21-15

NORTH 181 J4-1 36" X 51" — M 3-3 30" X 15", M1-6 36" X 36" — 21-1

ONE WAY R6-2L 24" X 30" — 21-14

* = SEE SIGN DETAIL SHEETS

PROJECT NO: 2140-08-73	HWY: STH 181	COUNTY: MILWAUKEE	PERMANENT SIGNING	SHEET 177	E

2

2

N

22-4

W3-3
36" X 36"

22-3

W3-3
36" X 36"

22-2

SPEED LIMIT 45
R2-1
36" X 48"

SPEED LIMIT 45
R2-1
36" X 48"

22-12

NO PARKING ANY TIME
R7-1D
24" X 30"

22-9

22-13

SPEED LIMIT 45
R2-1
36" X 48"

STH 181 / 76TH ST

MATCH LINE STA. 266+00

00

267+00

268+00

269+00

270+00

271+00

272

MATCH LINE STA. 272+00

22-1

SPEED LIMIT 45
R2-1
36" X 48"

22-5

LEFT TURN LANE
R3-55L
36" X 48"

22-6

R4-7
36" X 48"

22-7

R4-7
36" X 48"

*

W Glenbrook Rd
M1-94A
102 " X 15"

22-8

NO PARKING ANY TIME
R7-1D
24" X 30"

22-10

22-11

LEFT TURN LANE
R3-55L
36" X 48"

* = SEE SIGN DETAIL SHEETS

PROJECT NO: 2140-08-73	HWY: STH 181	COUNTY: MILWAUKEE	PERMANENT SIGNING	SHEET	E

FILE NAME : s:\@SAI\051--100\089\099\Micros\DESIGN\0873\023222_ps.dgn PLOT DATE : 10/17/2007 PLOT BY : $$...plotuser...$$ PLOT NAME : PLOT SCALE : $$.....plotscale.....$$ WISDOT/CADDS SHEET 42

2

N

GLENBROOK RD

STOP
R1-1
36" X 36"
23-8

NO PARKING ANY TIME
R7-1D
24" X 30"
23-2

NO PARKING ANY TIME
R7-1D
24" X 30"
23-10

23-4
R4-7
36" X 48"

DO NOT ENTER
R5-1
36" X 36"
23-6

STH 181 / 76TH ST

MATCH LINE STA. 272+00

273+00

274+00

275+00

276+00

277+00

278

MATCH LINE STA. 278+00

LEFT TURN LANE
R3-56
36" X 48"
23-3

NO PARKING ANY TIME
R7-1D
24" X 30"
23-5

R4-7
36" X 48"
23-9

PROJECT NO: 2140-08-73	HWY: STH 181	COUNTY: MILWAUKEE	PERMANENT SIGNING	SHEET 179	E

2

2

CITY OF
MILWAUKEE
NO PARKING
2 AM-6 AM
ON ANY STREET WITHOUT
POLICE PERMIT
NIGHT PARKING AND SNOW
EMERGENCY REGULATIONS
ARE IN EFFECT IN THIS CITY

24-7

N

24-2 W Glenbrook Rd ⇨ *
M1-94A
102 " X 15"

24-5 County Line Rd 9600 N *
M1-94A
84" X 24"

SPEED LIMIT 45 24-8
R2-1
36" X 48"

STH 181 / 76TH ST

MATCH LINE STA. 278+00

278+00

279+00

280+00

281+00

282+00

283+00

284

MATCH LINE STA. 284+00

24-4
W3-3
36" X 36"

24-3
W3-3
36" X 36"

24-6
RIGHT TURN LANE
R3-55R
36" X 48"

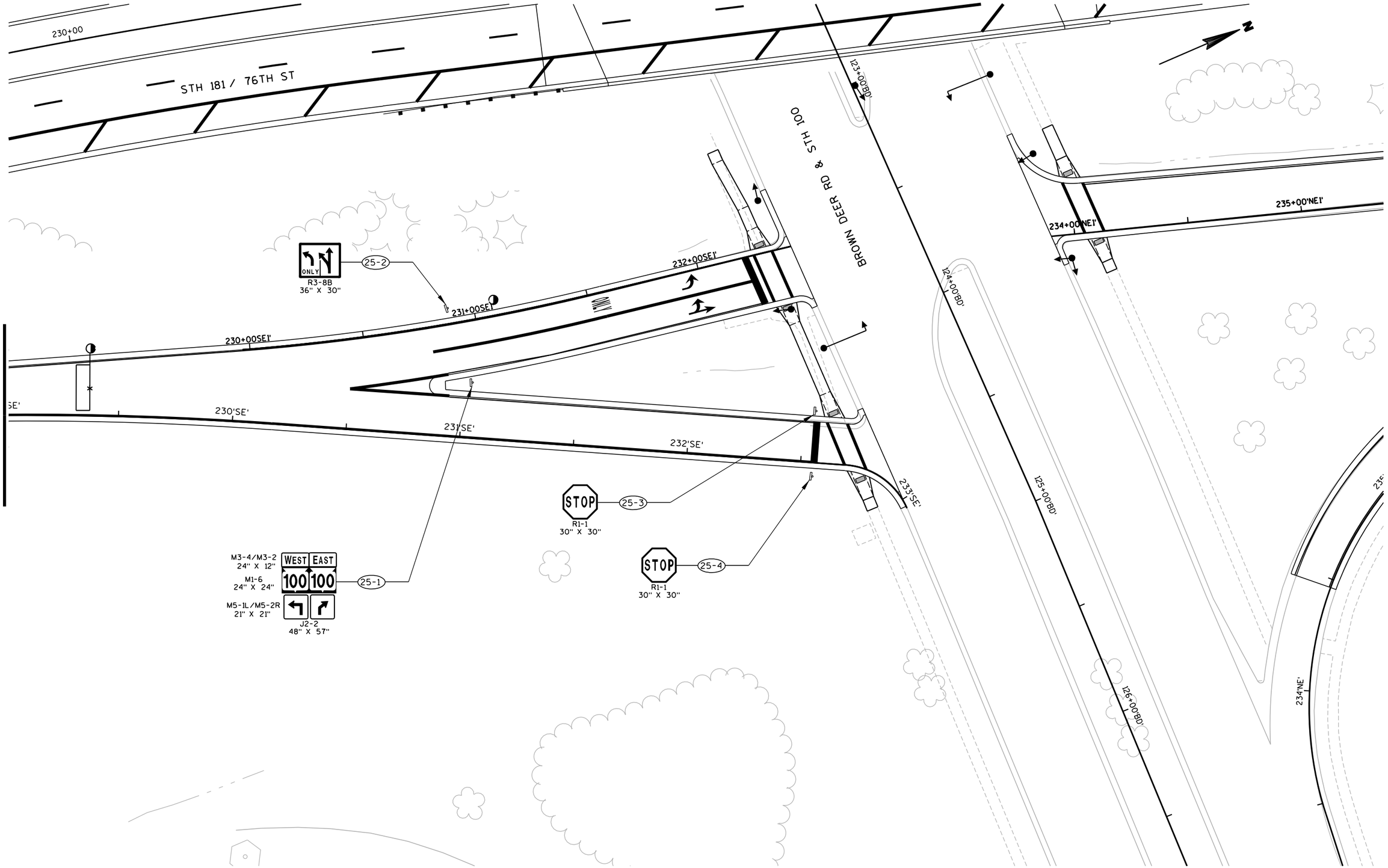
LEFT TURN LANE 24-9
R3-55L
36" X 48"

24-1
NO PARKING ANY TIME
R7-1D
24" X 30"

* = SEE SIGN DETAIL SHEETS

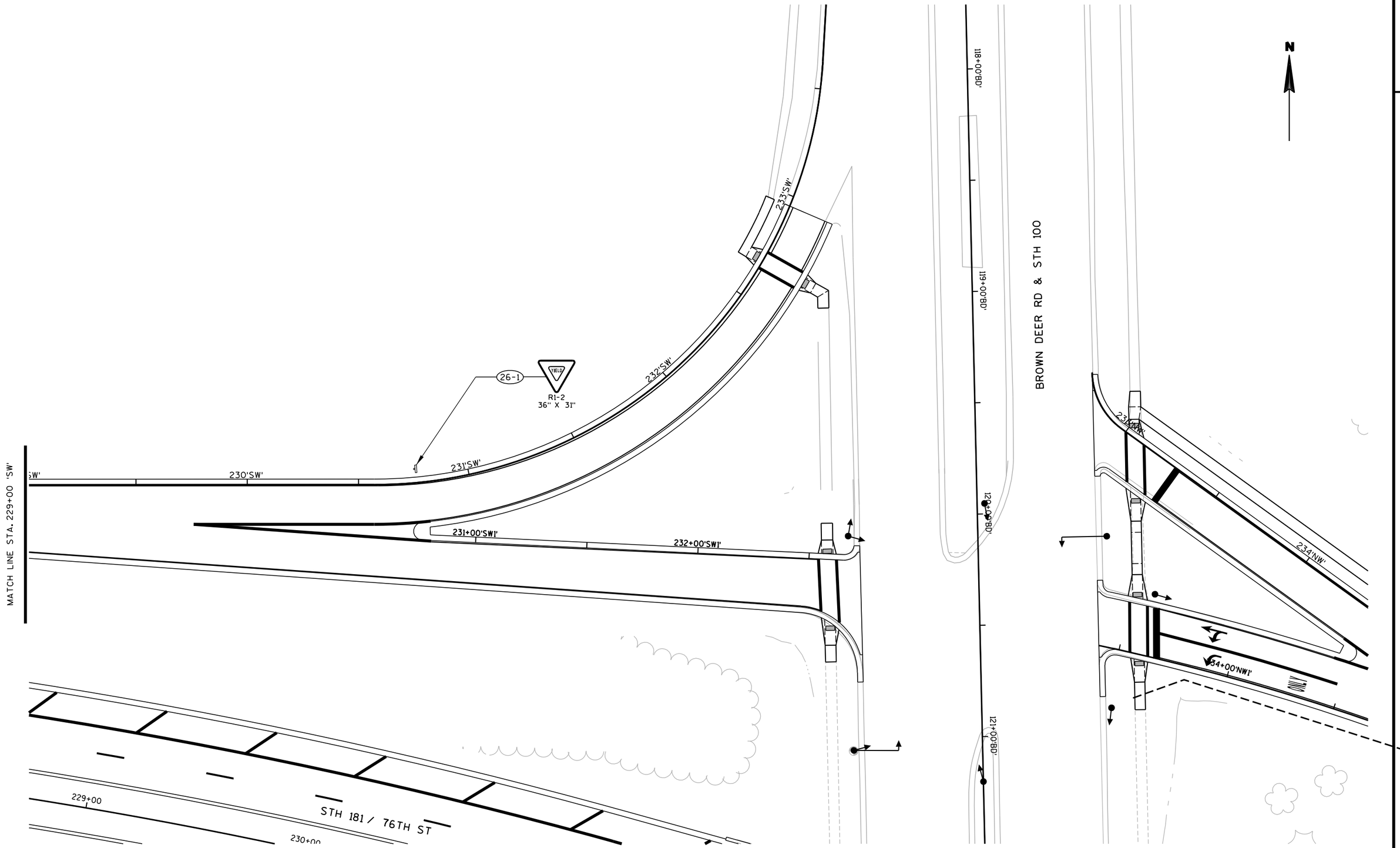
PROJECT NO: 2140-08-73	HWY: STH 181	COUNTY: MILWAUKEE	PERMANENT SIGNING	SHEET 180	E

2



PROJECT NO: 2140-08-73	HWY: STH 181	COUNTY: MILWAUKEE	PERMANENT SIGNING	SHEET 181	E

2



PROJECT NO: 2140-08-73	HWY: STH 181	COUNTY: MILWAUKEE	PERMANENT SIGNING	SHEET 182	E

2

2

N

BROWN DEER RD & STH 100

118+00'BD'

119+00'BD'

120+00'BD'

121+00'BD'

233'SW'

232'SW'

232+00'SW'

STOP
27-1
R1-1
30" X 30"

234'NW'

235'NW'

236'NW'

237

235+00'NW'

236+00'NW'

234+00'NW'

STOP
27-2
R1-1
30" X 30"

27-3
ONLY
R3-8B
36" X 30"

27-4
EAST WEST
100 100
J2-2
48" X 57"

M3-4/M3-2
24" X 12"

M1-6
24" X 24"

M5-1L/M5-2R
21" X 21"

MATCH LINE STA. 237+00 'NW'

PROJECT NO: 2140-08-73	HWY: STH 181	COUNTY: MILWAUKEE	PERMANENT SIGNING	SHEET 183	E

FILE NAME : s:\@sai\051--100\089\099\micros\design\0873\023227_ps.dgn PLOT DATE : 7/30/2007 PLOT BY : $$...plotuser...$$ PLOT NAME : PLOT SCALE : $$.....plotscale.....$$

WISDOT/CADDS SHEET 42

2

N

STA 139+80
S.L. BY OTHERS

MATCH LINE STA. 140+00

135+00 136+00 137+00 138+00 139+00

SIGN U/C INL MH SIGN W INL MH SIGN INL W MH

SIGN SIGN SIGN SIGN MINI GOLF COURSE SIGN MINI GOLF COURSE INL INL

W W

LEGEND

- INSTALL CONDUIT RIGID NONMETALLIC SCHEDULE 40 2.5"
- INSTALL CONDUIT RIGID NONMETALLIC SCHEDULE 40 1.5"
- STREET LIGHT POLE (BY OTHERS)
- POLYMER CONCRETE VAULT (13"W X 24"D X 18"H)

ALL VAULTS ARE 13" X 24" X 18" UNLESS OTHERWISE SPECIFIED

PROJECT NO: 2140-08-73	HWY: STH 181	COUNTY: MILWAUKEE	LIGHTING CONDUIT PLAN	SHEET 184	E

2

LEGEND

- INSTALL CONDUIT RIGID NONMETALLIC SCHEDULE 40 2.5"
- INSTALL CONDUIT RIGID NONMETALLIC SCHEDULE 40 1.5"
- (V) STREET LIGHT POLE (BY OTHERS)
- POLYMER CONCRETE VAULT (13"W X 24"D X 18"H)

ALL VAULTS ARE 13" X 24" X 18" UNLESS OTHERWISE SPECIFIED

N

STA 141+41 S.L. BY OTHERS

STA 143+10 S.L. BY OTHERS

STA 144+70 S.L. BY OTHERS

STH 181 / 76TH ST

MATCH LINE STA. 140+00

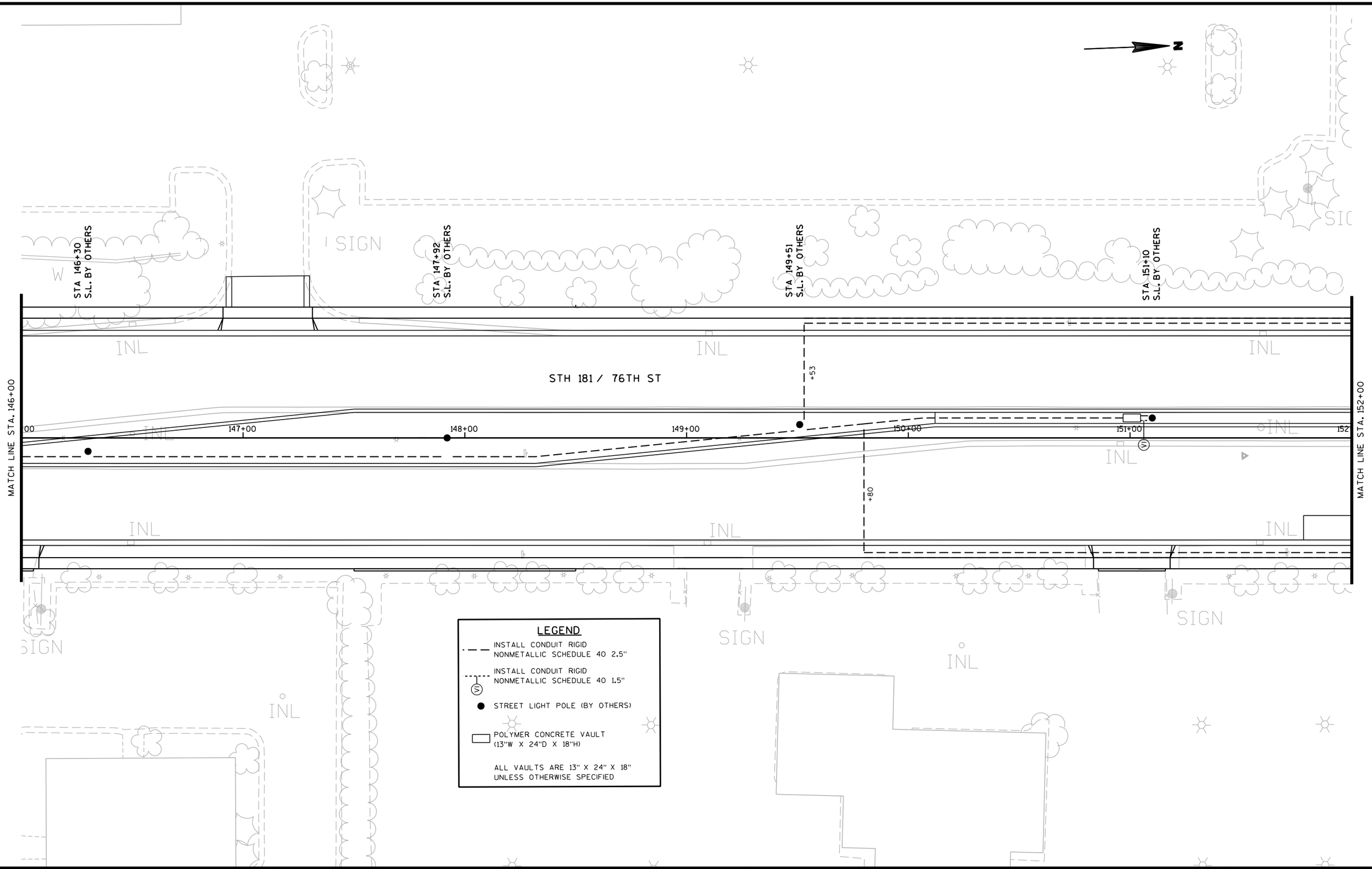
MATCH LINE STA. 146+00

141+00 142+00 143+00 144+00 145+00

RUINS SIGN INL W POST

PROJECT NO: 2140-08-73	HWY: STH 181	COUNTY: MILWAUKEE	LIGHTING CONDUIT PLAN	SHEET 185	E

2



PROJECT NO: 2140-08-73	HWY: STH 181	COUNTY: MILWAUKEE	LIGHTING CONDUIT PLAN	SHEET	E

FILE NAME : s:\@sai\051--100\089\099\micros\design\0873\023503_lp.dgn PLOT DATE : 7/30/2007 PLOT BY : $$...plotuser...$$ PLOT NAME : PLOT SCALE : $$.....plotscale.....$$ WISDOT/CADDS SHEET 42

2

2

CALUMET RD.

STA 154+85
S.L. BY OTHERS

STA 156+45
S.L. BY OTHERS

STH 181 / 76TH ST

MATCH LINE STA. 152+00

MATCH LINE STA. 158+00

153+00

154+00

155+00

156+00

157+00

158

+87

+03

+90

+26

11+00

10+00

11+00

LEGEND

- INSTALL CONDUIT RIGID NONMETALLIC SCHEDULE 40 2.5"
- INSTALL CONDUIT RIGID NONMETALLIC SCHEDULE 40 1.5"
- (S) STREET LIGHT POLE (BY OTHERS)
- POLYMER CONCRETE VAULT (13"W X 24"D X 18"H)

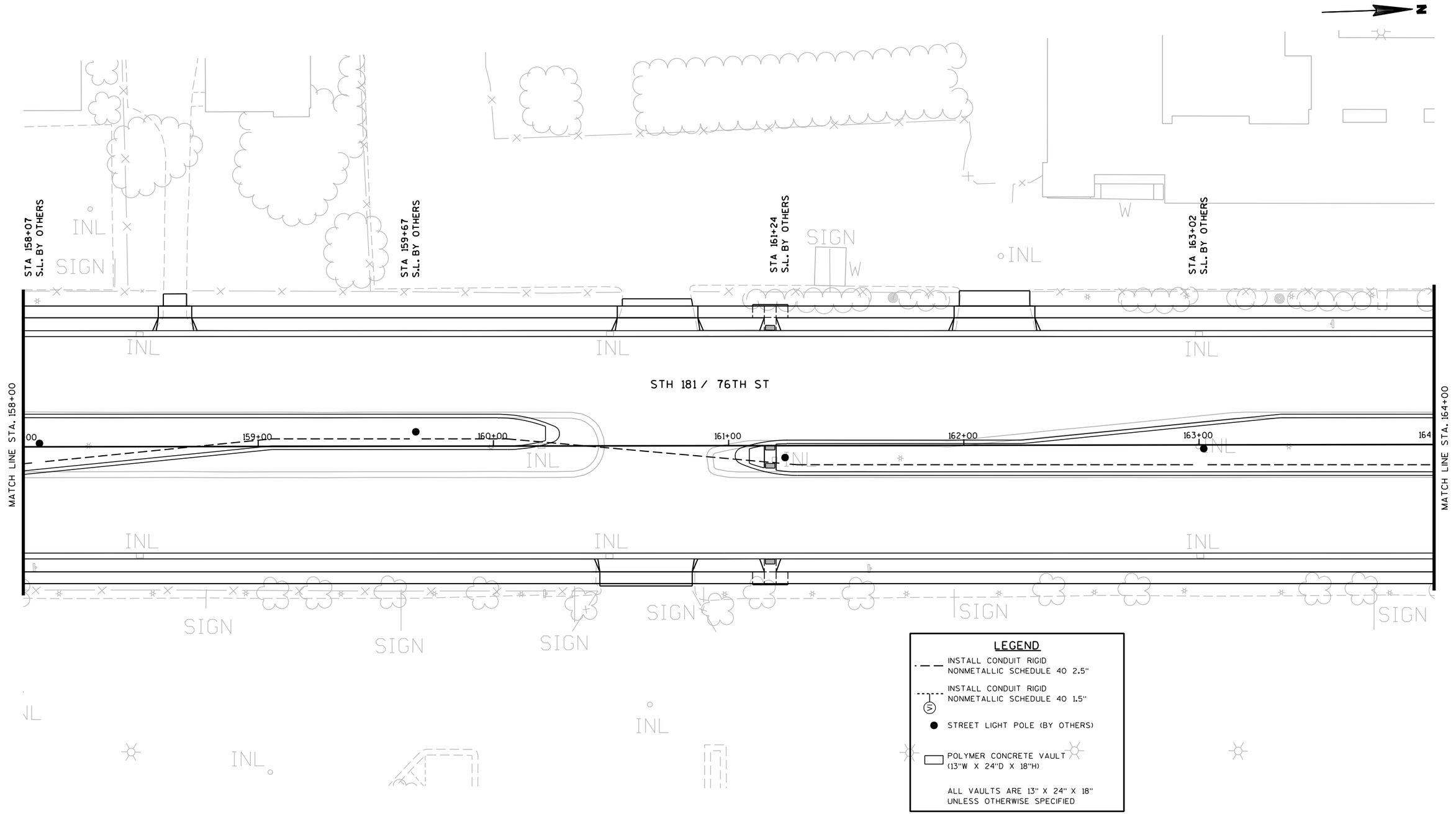
ALL VAULTS ARE 13" X 24" X 18" UNLESS OTHERWISE SPECIFIED

SIGN

PROJECT NO: 2140-08-73	HWY: STH 181	COUNTY: MILWAUKEE	LIGHTING CONDUIT PLAN	SHEET 187	E

FILE NAME : s:\@sdi\051--100\089\099\micros\design\0873\023504_lp.dgn PLOT DATE : 7/30/2007 PLOT BY : $$...plotuser...$$ PLOT NAME : PLOT SCALE : $$.....plotscale.....$$

2



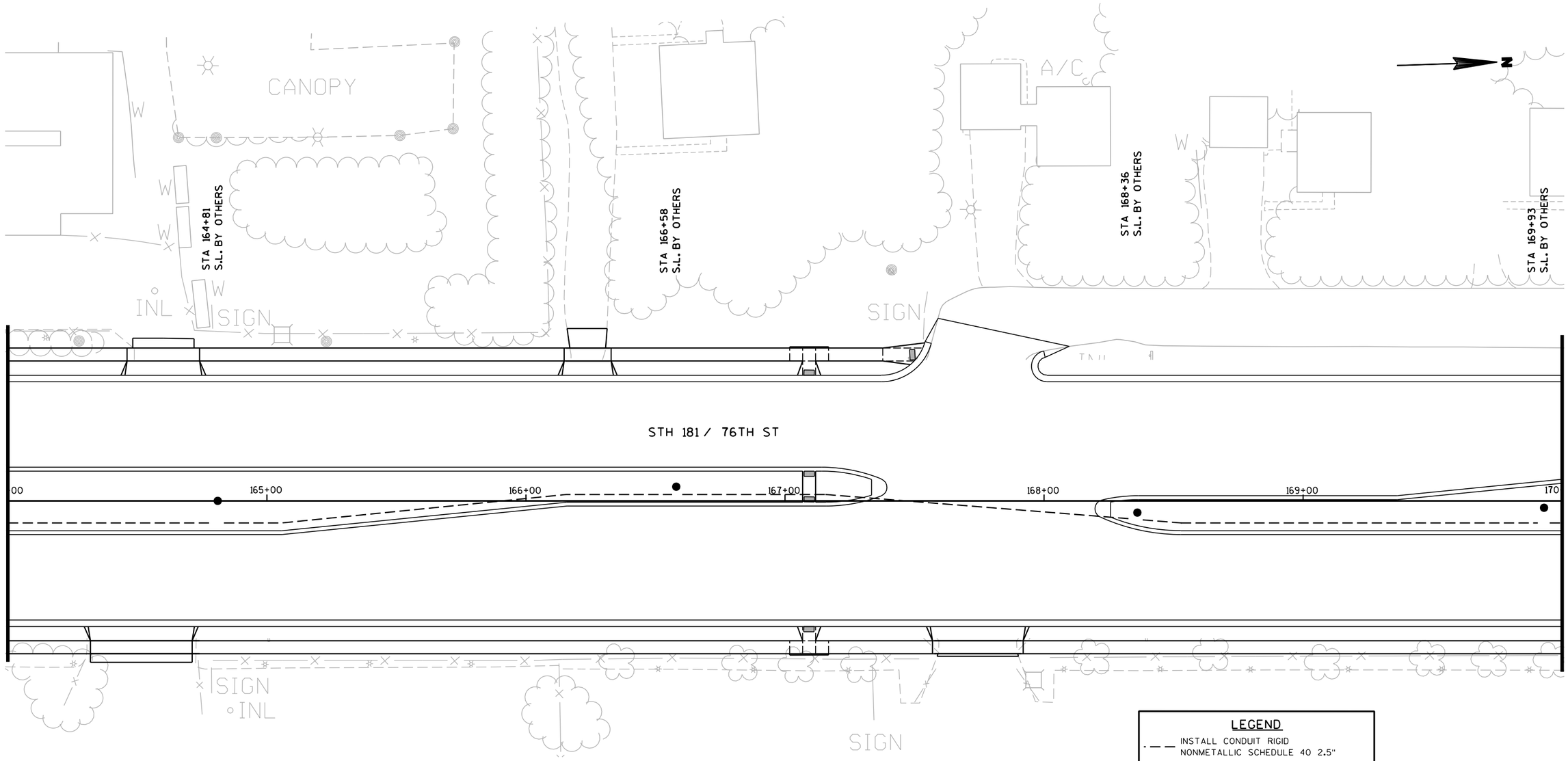
LEGEND

- INSTALL CONDUIT RIGID NONMETALLIC SCHEDULE 40 2.5"
- INSTALL CONDUIT RIGID NONMETALLIC SCHEDULE 40 1.5" (S)
- STREET LIGHT POLE (BY OTHERS)
- POLYMER CONCRETE VAULT (13"W X 24"D X 18"H)

ALL VAULTS ARE 13" X 24" X 18" UNLESS OTHERWISE SPECIFIED

PROJECT NO: 2140-08-73	HWY: STH 181	COUNTY: MILWAUKEE	LIGHTING CONDUIT PLAN	SHEET 188	E

2



LEGEND

- INSTALL CONDUIT RIGID NONMETALLIC SCHEDULE 40 2.5"
- INSTALL CONDUIT RIGID NONMETALLIC SCHEDULE 40 1.5"
- (S) STREET LIGHT POLE (BY OTHERS)
- POLYMER CONCRETE VAULT (13"W X 24"D X 18"H)

ALL VAULTS ARE 13" X 24" X 18" UNLESS OTHERWISE SPECIFIED

PROJECT NO: 2140-08-73	HWY: STH 181	COUNTY: MILWAUKEE	LIGHTING CONDUIT PLAN	SHEET 189	E

2

2

STA 173+03
S.L. BY OTHERS

STA 173+09
VAULT

A/C

A/C

W

STA 171+47
S.L. BY OTHERS

8+00'F'

9+00'F'

INL

INL

INL

LOITA AVE.

.100+11

STA 174+52
VAULT

STA 174+58
S.L. BY OTHERS

STA 174+92
VAULT

SIGN

STA 175+94
VAULT

STA 176+00
S.L. BY OTHERS

N

STH 181 / 76TH ST

MATCH LINE STA. 170+00

00

171+00

172+00

173+00

174+00

175+00

176

MATCH LINE STA. 176+00

INL

INL

SIGN

INL

SIGN

INL

SIGN

SIGN

S

INL

LEGEND

- INSTALL CONDUIT RIGID NONMETALLIC SCHEDULE 40 2.5"
- INSTALL CONDUIT RIGID NONMETALLIC SCHEDULE 40 1.5"
- STREET LIGHT POLE (BY OTHERS)
- POLYMER CONCRETE VAULT (13"W X 24"D X 18"H)

ALL VAULTS ARE 13" X 24" X 18" UNLESS OTHERWISE SPECIFIED

PROJECT NO: 2140-08-73	HWY: STH 181	COUNTY: MILWAUKEE	LIGHTING CONDUIT PLAN	SHEET 190	E

FILE NAME : s:\@sai\051--100\089\099\micros\design\0873\023507_lp.dgn PLOT DATE : 7/30/2007 PLOT BY : $$...plotuser...$$ PLOT NAME : PLOT SCALE : $$.....plotscale.....$$

2

STA 176+00
S.L. BY OTHERS

STA 177+34
VAULT

STA 177+40
S.L. BY OTHERS

STA 177+70
VAULT

STH 181 / 76TH ST

BRADLEY RD.

RUINS

STA 181+48
VAULT

STA 181+60
S.L. BY OTHERS

INL

MATCH LINE STA. 176+00

MATCH LINE STA. 182+00

177+00

178+00

179+00

180+00

181+00

182

+89

+24

+18

+57

+78

+15

SIGN

LEGEND

- INSTALL CONDUIT RIGID NONMETALLIC SCHEDULE 40 2.5"
- (W) INSTALL CONDUIT RIGID NONMETALLIC SCHEDULE 40 1.5"
- STREET LIGHT POLE (BY OTHERS)
- POLYMER CONCRETE VAULT (13"W X 24"D X 18"H)

ALL VAULTS ARE 13" X 24" X 18" UNLESS OTHERWISE SPECIFIED

PROJECT NO: 2140-08-73	HWY: STH 181	COUNTY: MILWAUKEE	LIGHTING CONDUIT PLAN	SHEET	E

FILE NAME : s:\@sai\051--100\089\099\micros\design\0873\023508_lp.dgn PLOT DATE : 7/30/2007 PLOT BY : $$...plotuser...$$ PLOT NAME : PLOT SCALE : $$.....plotscale.....$$ WISDOT/CADDS SHEET 42

2

2

STA 183+15
VAULT
STA 183+18
S.L. BY OTHERS

STA 184+49
VAULT
STA 184+52
S.L. BY OTHERS

TOWER AVE.

STH 181 / 76TH ST

+15

+87

183+00

184+00

185+00

186+00

187+00

MATCH LINE STA. 182+00

MATCH LINE STA. 188+00

SIGN

SIGN

POST

INL

INL

LEGEND

INSTALL CONDUIT RIGID
NONMETALLIC SCHEDULE 40 2.5"

INSTALL CONDUIT RIGID
NONMETALLIC SCHEDULE 40 1.5"

STREET LIGHT POLE (BY OTHERS)

POLYMER CONCRETE VAULT
(13"W X 24"D X 18"H)

ALL VAULTS ARE 13" X 24" X 18"
UNLESS OTHERWISE SPECIFIED

PROJECT NO: 2140-08-73	HWY: STH 181	COUNTY: MILWAUKEE	LIGHTING CONDUIT PLAN	SHEET 192	E

2

2

STA 188+36
S.L. BY OTHERS

STA 189+98
S.L. BY OTHERS

STA 191+66
S.L. BY OTHERS

STA 193+97
S.L. BY OTHERS

INL

STH 181 / 76TH ST

B-40-380

B-40-381

MATCH LINE STA. 188+00

MATCH LINE STA. 194+00

+00

+69

+99

+40

+97

188+00

189+00

190+00

191+00

192+00

193+00

194

INL

INL

SIGN

SIGN

LEGEND

INSTALL CONDUIT RIGID NONMETALLIC SCHEDULE 40 2.5"

INSTALL CONDUIT RIGID NONMETALLIC SCHEDULE 40 1.5"

(S) STREET LIGHT POLE (BY OTHERS)

POLYMER CONCRETE VAULT (13"W X 24"D X 18"H)

ALL VAULTS ARE 13" X 24" X 18" UNLESS OTHERWISE SPECIFIED

PROJECT NO: 2140-08-73	HWY: STH 181	COUNTY: MILWAUKEE	LIGHTING CONDUIT PLAN	SHEET 193	E

FILE NAME : s:\@sai\051--100\089\099\micros\design\0873\023510_lp.dgn PLOT DATE : 7/30/2007 PLOT BY : $$...plotuser...$$ PLOT NAME : PLOT SCALE : $$.....plotscale.....$$

2

2

N

SIGN

STA 195+62
S.L. BY OTHERS

STA 197+25
S.L. BY OTHERS

STA 198+90
S.L. BY OTHERS

INL

+30

STH 181 / 76TH ST

MATCH LINE STA. 194+00

195+00

196+00

197+00

198+00

199+00

200

MATCH LINE STA. 200+00

INL

INL

INL

INL

INL

SIGN

LEGEND

INSTALL CONDUIT RIGID NONMETALLIC SCHEDULE 40 2.5"

INSTALL CONDUIT RIGID NONMETALLIC SCHEDULE 40 1.5"

S

STREET LIGHT POLE (BY OTHERS)

POLYMER CONCRETE VAULT (13"W X 24"D X 18"H)

ALL VAULTS ARE 13" X 24" X 18" UNLESS OTHERWISE SPECIFIED

PROJECT NO: 2140-08-73	HWY: STH 181	COUNTY: MILWAUKEE	LIGHTING CONDUIT PLAN	SHEET	E

FILE NAME : s:\@sai\051--100\089\099\micros\design\0873\023511_lp.dgn PLOT DATE : 7/30/2007 PLOT BY : $$...plotuser...$$ PLOT NAME : PLOT SCALE : $$.....plotscale.....$$ WISDOT/CADDS SHEET 42

2

2

STA 200+53
S.L. BY OTHERS

STA 202+19
S.L. BY OTHERS

STA 203+89
S.L. BY OTHERS

SERVITE DR.

STH 181 / 76TH ST

MATCH LINE STA. 200+00

200+00

201+00

202+00

203+00

204+00

205+00

206

+89

+95

MATCH LINE STA. 206+00

11+00

13+00

DEAN RD.

INL

SIGN

CATV

LEGEND

INSTALL CONDUIT RIGID
NONMETALLIC SCHEDULE 40 2.5"

INSTALL CONDUIT RIGID
NONMETALLIC SCHEDULE 40 1.5"

(S)

STREET LIGHT POLE (BY OTHERS)

POLYMER CONCRETE VAULT
(13"W X 24"D X 18"H)

ALL VAULTS ARE 13" X 24" X 18"
UNLESS OTHERWISE SPECIFIED

PROJECT NO: 2140-08-73	HWY: STH 181	COUNTY: MILWAUKEE	LIGHTING CONDUIT PLAN	SHEET	E

FILE NAME : s:\@sai\051--100\089\099\micros\design\0873\023512_lp.dgn PLOT DATE : 7/30/2007 PLOT BY : $$...plotuser...$$ PLOT NAME : PLOT SCALE : $$.....plotscale.....$$ WISDOT/CADDS SHEET 42

2

N

SERVITE DR.

WALLS

INL

INL

INL SIGN

POST

SIGN

INL

INL

STA 207+93
S.L. BY OTHERS

STA 209+42
S.L. BY OTHERS

STA 210+90
S.L. BY OTHERS

LEGEND

- INSTALL CONDUIT RIGID NONMETALLIC SCHEDULE 40 2.5"
- INSTALL CONDUIT RIGID NONMETALLIC SCHEDULE 40 1.5" (M)
- STREET LIGHT POLE (BY OTHERS)
- POLYMER CONCRETE VAULT (13"W X 24"D X 18"H)
- ALL VAULTS ARE 13" X 24" X 18" UNLESS OTHERWISE SPECIFIED

MATCH LINE STA. 206+00

STH 181 / 76TH ST

MATCH LINE STA. 212+00

207+00

208+00

209+00

210+00

211+00

212

+92

+93

DEAN RD.

SIGN

SIGN

SIGN

SIGN

GREENHOUSE

INL

INL

INL

INL

PROJECT NO: 2140-08-73	HWY: STH 181	COUNTY: MILWAUKEE	LIGHTING CONDUIT PLAN	SHEET 196	E

2

2

STA 212+47
S.L. BY OTHERS

STA 213+95
S.L. BY OTHERS

STA 214+01
VAULT

STA 215+53
S.L. BY OTHERS

STA 217+15
S.L. BY OTHERS

STH 181 / 76TH ST

MATCH LINE STA 212+00

MATCH LINE STA 218+00

212+00

213+00

214+00

215+00

216+00

217+00

218+00

+47

+01

S.L. BY OTHERS
20' EECL

76TH PLACE

SIGN

A/C

LEGEND

- INSTALL CONDUIT RIGID NONMETALLIC SCHEDULE 40 2.5"
- INSTALL CONDUIT RIGID NONMETALLIC SCHEDULE 40 1.5"
- (V) STREET LIGHT POLE (BY OTHERS)
- POLYMER CONCRETE VAULT (13"W X 24"D X 18"H)

ALL VAULTS ARE 13" X 24" X 18" UNLESS OTHERWISE SPECIFIED

PROJECT NO: 2140-08-73	HWY: STH 181	COUNTY: MILWAUKEE	LIGHTING CONDUIT PLAN	SHEET 197	E

2

STA 218+72
S.L. BY OTHERS

STA 220+34
S.L. BY OTHERS

STA 221+40 'SW'
S.L. BY OTHERS

STA 221+92
S.L. BY OTHERS

STA 222+97 'SW'
S.L. BY OTHERS

219'SW'
220'SW'
221'SW'
222'SW'
224'SW'

MATCH LINE STA. 218+00

219+00
220+00
221+00
222+00
223+00
+50

STH 181 / 76TH ST

MATCH LINE STA. 224+00

219'SE'
220'SE'
221'SE'
222'SE'
223'SE'

STA 223+09 'SE'
S.L. BY OTHERS

INL

LEGEND

- INSTALL CONDUIT RIGID NONMETALLIC SCHEDULE 40 2.5"
- INSTALL CONDUIT RIGID NONMETALLIC SCHEDULE 40 1.5"
- (W) STREET LIGHT POLE (BY OTHERS)
- POLYMER CONCRETE VAULT (13"W X 24"D X 18"H)

ALL VAULTS ARE 13" X 24" X 18" UNLESS OTHERWISE SPECIFIED

PROJECT NO: 2140-08-73	HWY: STH 181	COUNTY: MILWAUKEE	LIGHTING CONDUIT PLAN	SHEET 198 E

FILE NAME : s:\@sai\051--100\089\099\micros\design\0873\023515_lp.dgn PLOT DATE : 7/30/2007 PLOT BY : $$...plotuser...$$ PLOT NAME : PLOT SCALE : $$.....plotscale.....$$

2

2

STA 224+57 'SW'
S.L. BY OTHERS

STA 225+13
S.L. BY OTHERS

STA 226+17 'SW'
S.L. BY OTHERS

STA 226+74
S.L. BY OTHERS

STA 227+77 'SW'
S.L. BY OTHERS

225'SW'

226'SW'

227'SW'

228'SW'

229

MATCH LINE STA. 229+00 'SW'

INL

INL

INL

STA 228+35
S.L. BY OTHERS

STA 229+95
S.L. BY OTHERS

STH 181 / 76TH ST

225+04.99'SE'

225+00

226+00

227+00

228+00

229+00

230

MATCH LINE STA. 224+00

MATCH LINE STA. 230+00

INL

INL

INL

INL

INL

224'SE'

225'SE'

226'SE'

227'SE'

228'SE'

229

SIGN

STA 224+70 'SE'
S.L. BY OTHERS

STA 226+23 'SE'
S.L. BY OTHERS

STA 227+90 'SE'
S.L. BY OTHERS

MATCH LINE STA. 229+00 SE

LEGEND

INSTALL CONDUIT RIGID
NONMETALLIC SCHEDULE 40 2.5"

INSTALL CONDUIT RIGID
NONMETALLIC SCHEDULE 40 1.5"

(V)

STREET LIGHT POLE (BY OTHERS)

POLYMER CONCRETE VAULT
(13"W X 24"D X 18"H)

ALL VAULTS ARE 13" X 24" X 18"
UNLESS OTHERWISE SPECIFIED

PROJECT NO: 2140-08-73	HWY: STH 181	COUNTY: MILWAUKEE	LIGHTING CONDUIT PLAN	SHEET	E

FILE NAME : s:\@sdi\051--100\089\099\micros\design\0873\023516_lp.dgn PLOT DATE : 7/30/2007 PLOT BY : $$...plotuser...$$ PLOT NAME : PLOT SCALE : $$.....plotscale.....$$ WISDOT/CADDS SHEET 42

2

231'SW'

232+00'SW'

231+00'SW'

INL

INL

BROWN DEER RD & STH 100

121+00'BD'

STA 231+57
S.L. BY OTHERS

234+00'NW'

INL

INL

235+00'NW'

236'NW

INL

236+00'NW'

LEGEND

- INSTALL CONDUIT RIGID NONMETALLIC SCHEDULE 40 2.5"
- INSTALL CONDUIT RIGID NONMETALLIC SCHEDULE 40 1.5"
- (V) STREET LIGHT POLE (BY OTHERS)
- POLYMER CONCRETE VAULT (13"W X 24"D X 18"H)

ALL VAULTS ARE 13" X 24" X 18" UNLESS OTHERWISE SPECIFIED

STA. 234+86
S.L. BY OTHERS

2

MATCH LINE STA. 230+00

STH 181 / 76TH ST

+75

B-40-404

122+00'BD'

+40

MATCH LINE STA. 236+00

00

231+00

232+00

233+00

234+00

235+00

INL

+00

+65

INL

123+00'BD'

INL

INL

INL

2

2

MATCH LINE STA. 238+00 NW

STA 238+16 'NW'
S.L. BY OTHERS

STA 239+76 'NW'
S.L. BY OTHERS

STA 239+90
S.L. BY OTHERS

STA 241+36 'NW'
S.L. BY OTHERS

STA 241+58
S.L. BY OTHERS

STA 236+54
S.L. BY OTHERS

STA 238+22
S.L. BY OTHERS

238'NW'

239'NW'

240'NW'

241'NW'

242'NW'

INL

STH 181 / 76TH ST

MATCH LINE STA. 236+00

237+00

238+00

239+00

240+00

241+00

242

MATCH LINE STA. 242+00

LEGEND

- INSTALL CONDUIT RIGID NONMETALLIC SCHEDULE 40 2.5"
- INSTALL CONDUIT RIGID NONMETALLIC SCHEDULE 40 1.5" (V)
- STREET LIGHT POLE (BY OTHERS)
- POLYMER CONCRETE VAULT (13"W X 24"D X 18"H)

ALL VAULTS ARE 13" X 24" X 18" UNLESS OTHERWISE SPECIFIED

MATCH LINE STA. 238+00 NE

239'NE'

240'NE'

241'NE'

STA 239+32 'NE'
S.L. BY OTHERS

STA 240+92 'NE'
S.L. BY OTHERS

PROJECT NO: 2140-08-73	HWY: STH 181	COUNTY: MILWAUKEE	LIGHTING CONDUIT PLAN	SHEET 201	E

2

STA 242+96 'NW'
S.L. BY OTHERS

STA 243+44
S.L. BY OTHERS

STA 244+56 'NW'
S.L. BY OTHERS

STA 245+12
S.L. BY OTHERS

STA 246+80
S.L. BY OTHERS

243'NW'

244'NW'

245'NW'

246'NW'

247'NW'

STH 181 / 76TH ST

+12

+80

243+00

244+00

245+00

246+00

247+00

MATCH LINE STA. 248+00

+44

+60

242'NE'

243'NE'

STA 242+52 'NE'
S.L. BY OTHERS

LEGEND

- INSTALL CONDUIT RIGID NONMETALLIC SCHEDULE 40 2.5"
- INSTALL CONDUIT RIGID NONMETALLIC SCHEDULE 40 1.5"
- STREET LIGHT POLE (BY OTHERS)
- POLYMER CONCRETE VAULT (13"W X 24"D X 18"H)

ALL VAULTS ARE 13" X 24" X 18" UNLESS OTHERWISE SPECIFIED

PROJECT NO: 2140-08-73	HWY: STH 181	COUNTY: MILWAUKEE	LIGHTING CONDUIT PLAN	SHEET 202	E

2

2

PRIVATE ROAD

STA 248+42
VAULT T
STA 248+48
S.L. BY OTHERS

STA 252+50
S.L. BY OTHERS

STA 253+95
S.L. BY OTHERS

STH 181 / 76TH ST

MATCH LINE STA. 248+00

MATCH LINE STA. 254+00

248+00
249+00
250+00
251+00
252+00
253+00
254+00

+42
+50
+95

12+00N

SIGN

INL

LEGEND

- INSTALL CONDUIT RIGID NONMETALLIC SCHEDULE 40 2.5"
- INSTALL CONDUIT RIGID NONMETALLIC SCHEDULE 40 1.5"
- (V) STREET LIGHT POLE (BY OTHERS)
- POLYMER CONCRETE VAULT (13"W X 24"D X 18"H)

ALL VAULTS ARE 13" X 24" X 18" UNLESS OTHERWISE SPECIFIED

PROJECT NO: 2140-08-73	HWY: STH 181	COUNTY: MILWAUKEE	LIGHTING CONDUIT PLAN	SHEET 203	E

FILE NAME : s:\@sai\051--100\089\099\micros\design\0873\023520_lp.dgn PLOT DATE : 7/30/2007 PLOT BY : $$...plotuser...$$ PLOT NAME : PLOT SCALE : $$.....plotscale.....$$

WISDOT/CADDS SHEET 42

2

2

CANOPY

PRIVATE ROAD

STA 253+31
VAULT

STA 253+37
S.L. BY OTHERS

STA 259+60
S.L. BY OTHERS

STA 259+66
VAULT

+87

+17

STH 181 / 76TH ST

MATCH LINE STA. 254+00

255+00

256+00

257+00

258+00

259+00

260

MATCH LINE STA. 260+00

+30

+20

+45

+66

12+00 N.L.

10+00 N.L.

11+00 N.L.

+00

+15

NORTHRIDGE LAKES BLVD

POST

LEGEND

- INSTALL CONDUIT RIGID NONMETALLIC SCHEDULE 40 2.5"
- (V) INSTALL CONDUIT RIGID NONMETALLIC SCHEDULE 40 1.5"
- STREET LIGHT POLE (BY OTHERS)
- POLYMER CONCRETE VAULT (13"W X 24"D X 18"H)

ALL VAULTS ARE 13" X 24" X 18" UNLESS OTHERWISE SPECIFIED

PROJECT NO: 2140-08-73	HWY: STH 181	COUNTY: MILWAUKEE	LIGHTING CONDUIT PLAN	SHEET 204	E

FILE NAME : s:\@sai\051--100\089\099\micros\design\0873\023521_lp.dgn PLOT DATE : 7/30/2007 PLOT BY : $$...plotuser...$$ PLOT NAME : PLOT SCALE : $$.....plotscale.....$$

WISDOT/CADDS SHEET 42

2

2

STA 261+26
S.L. BY OTHERS

STA 262+86
VAULT
STA 262+92
S.L. BY OTHERS

PRIVATE ROAD

STA 264+15
S.L. BY OTHERS

STA 264+55
S.L. BY OTHERS

INL

SIGN

FLAG

POST

STH 181 / 76TH ST

MATCH LINE STA. 260+00

261+00

262+00

263+00

264+00

265+00

266

+85

+86

MATCH LINE STA. 266+00

LEGEND

- INSTALL CONDUIT RIGID NONMETALLIC SCHEDULE 40 2.5"
- INSTALL CONDUIT RIGID NONMETALLIC SCHEDULE 40 1.5"
- (V) STREET LIGHT POLE (BY OTHERS)
- POLYMER CONCRETE VAULT (13"W X 24"D X 18"H)

ALL VAULTS ARE 13" X 24" X 18" UNLESS OTHERWISE SPECIFIED

PROJECT NO: 2140-08-73	HWY: STH 181	COUNTY: MILWAUKEE	LIGHTING CONDUIT PLAN	SHEET 205	E

2

N

STA 266+13
S.L. BY OTHERS

STA 267+73
S.L. BY OTHERS

STA 269+33
S.L. BY OTHERS

STA 270+93
S.L. BY OTHERS

SIGN

SIGN

SIGN

SIGN

W

INL

STH 181 / 76TH ST

MATCH LINE STA. 266+00

267+00

268+00

269+00

270+00

271+00

MATCH LINE STA. 272+00

POST

LEGEND

- INSTALL CONDUIT RIGID NONMETALLIC SCHEDULE 40 2.5"
- INSTALL CONDUIT RIGID NONMETALLIC SCHEDULE 40 1.5" (SL)
- STREET LIGHT POLE (BY OTHERS)
- POLYMER CONCRETE VAULT (13"W X 24"D X 18"H)

ALL VAULTS ARE 13" X 24" X 18" UNLESS OTHERWISE SPECIFIED

PROJECT NO: 2140-08-73	HWY: STH 181	COUNTY: MILWAUKEE	LIGHTING CONDUIT PLAN	SHEET 206	E

2

2

N

GLENBROOK RD.

STA 272+53
S.L. BY OTHERS

STA 274+07
VAULT
STA 274+13
S.L. BY OTHERS

STA 275+67
S.L. BY OTHERS

STA 277+24
S.L. BY OTHERS

STH 181 / 76TH ST

MATCH LINE STA. 272+00

MATCH LINE STA. 278+00

273+00

274+00

275+00

276+00

277+00

+07

+67

INL

W

LEGEND

- INSTALL CONDUIT RIGID NONMETALLIC SCHEDULE 40 2.5"
- INSTALL CONDUIT RIGID NONMETALLIC SCHEDULE 40 1.5"
- STREET LIGHT POLE (BY OTHERS)
- POLYMER CONCRETE VAULT (13"W X 24"D X 18"H)

ALL VAULTS ARE 13" X 24" X 18" UNLESS OTHERWISE SPECIFIED

PROJECT NO: 2140-08-73	HWY: STH 181	COUNTY: MILWAUKEE	LIGHTING CONDUIT PLAN	SHEET 207	E

2

N

STA 278+81
S.L. BY OTHERS

STA 280+38
S.L. BY OTHERS

STA 281+95
S.L. BY OTHERS

STA 283+52
S.L. BY OTHERS

INL

STH 181 / 76TH ST

MATCH LINE STA. 278+00

MATCH LINE STA. 284+00

279+00

280+00

281+00

282+00

283+00

284

POST

POST

LEGEND

INSTALL CONDUIT RIGID
NONMETALLIC SCHEDULE 40 2.5"

INSTALL CONDUIT RIGID
NONMETALLIC SCHEDULE 40 1.5"

STREET LIGHT POLE (BY OTHERS)

POLYMER CONCRETE VAULT
(13"W X 24"D X 18"H)

ALL VAULTS ARE 13" X 24" X 18"
UNLESS OTHERWISE SPECIFIED

PROJECT NO: 2140-08-73	HWY: STH 181	COUNTY: MILWAUKEE	LIGHTING CONDUIT PLAN	SHEET	E

FILE NAME : s:\@sai\051--100\089\099\micros\design\0873\023525_lp.dgn PLOT DATE : 7/30/2007 PLOT BY : $$...plotuser...$$ PLOT NAME : PLOT SCALE : $$.....plotscale.....$$ WISDOT/CADDS SHEET 42

2

2

LEGEND

INSTALL CONDUIT RIGID NONMETALLIC SCHEDULE 40 2.5"

INSTALL CONDUIT RIGID NONMETALLIC SCHEDULE 40 1.5"

STREET LIGHT POLE (BY OTHERS)

POLYMER CONCRETE VAULT (13"W X 24"D X 18"H)

ALL VAULTS ARE 13" X 24" X 18" UNLESS OTHERWISE SPECIFIED

N

STA 285+03
S.L. BY OTHERS

W. COUNTY LINE RD

STH 181 / 76TH ST

MATCH LINE STA. 284+00

+00

285+00

286+00

287+00

+05

+05

INL

INL

INL

INL

INL

INL

SIGN

W

PROJECT NO: 2140-08-73	HWY: STH 181	COUNTY: MILWAUKEE	LIGHTING CONDUIT PLAN	SHEET	E

FILE NAME : s:\@sai\051--100\089\099\micros\design\0873\023526_lp.dgn PLOT DATE : 7/30/2007 PLOT BY : $$...plotuser...$$ PLOT NAME : PLOT SCALE : $$.....plotscale.....$$ WISDOT/CADDS SHEET 42

2

STH 181 / 76TH ST

+00

N

BROWN DEER RD & STH 100

123+00 BD'

124+00 BD'

125+00 BD'

126+00 BD'

INL

230+00 SE'

231+00 SE'

232+00 SE'

234+00 NE'

235+00 NE'

MATCH LINE STA. 229+00 'SE'

SE'

230'SE'

231'SE'

232'SE'

233'SE'

234'NE'

+10

STA 229+50 'SE'
S.L. BY OTHERS

STA 231+10 'SE'
S.L. BY OTHERS

LEGEND

- INSTALL CONDUIT RIGID NONMETALLIC SCHEDULE 40 2.5"
- INSTALL CONDUIT RIGID NONMETALLIC SCHEDULE 40 1.5"
- (VI) STREET LIGHT POLE (BY OTHERS)
- POLYMER CONCRETE VAULT (13"W X 24"D X 18"H)

ALL VAULTS ARE 13" X 24" X 18" UNLESS OTHERWISE SPECIFIED

PROJECT NO: 2140-08-73	HWY: STH 181	COUNTY: MILWAUKEE	LIGHTING CONDUIT PLAN	SHEET 210	E

2

2

BROWN DEER RD & STH 100

STH 181 / 76TH ST

232+00'SE'

232'SE'

233'SE'

124+00'BD'

125+00'BD'

126+00'BD'

EXISTING STEET LIGHT

234+00'NE'

235+00'NE'

236+00'NE'

237+00'NE'

237+00

STA 235+84 'NE'
S.L. BY OTHERS

STA 237+73 'NE'
S.L. BY OTHERS

MATCH LINE STA. 238+00 'NE'

+72

236'NE'

237'NE'

235'NE'

STA 236+41 'NE'
S.L. BY OTHERS

STA 235+02 'NE'
S.L. BY OTHERS

+07

234'NE'

EXISTING STEET LIGHT

SIGN

INL

N

LEGEND

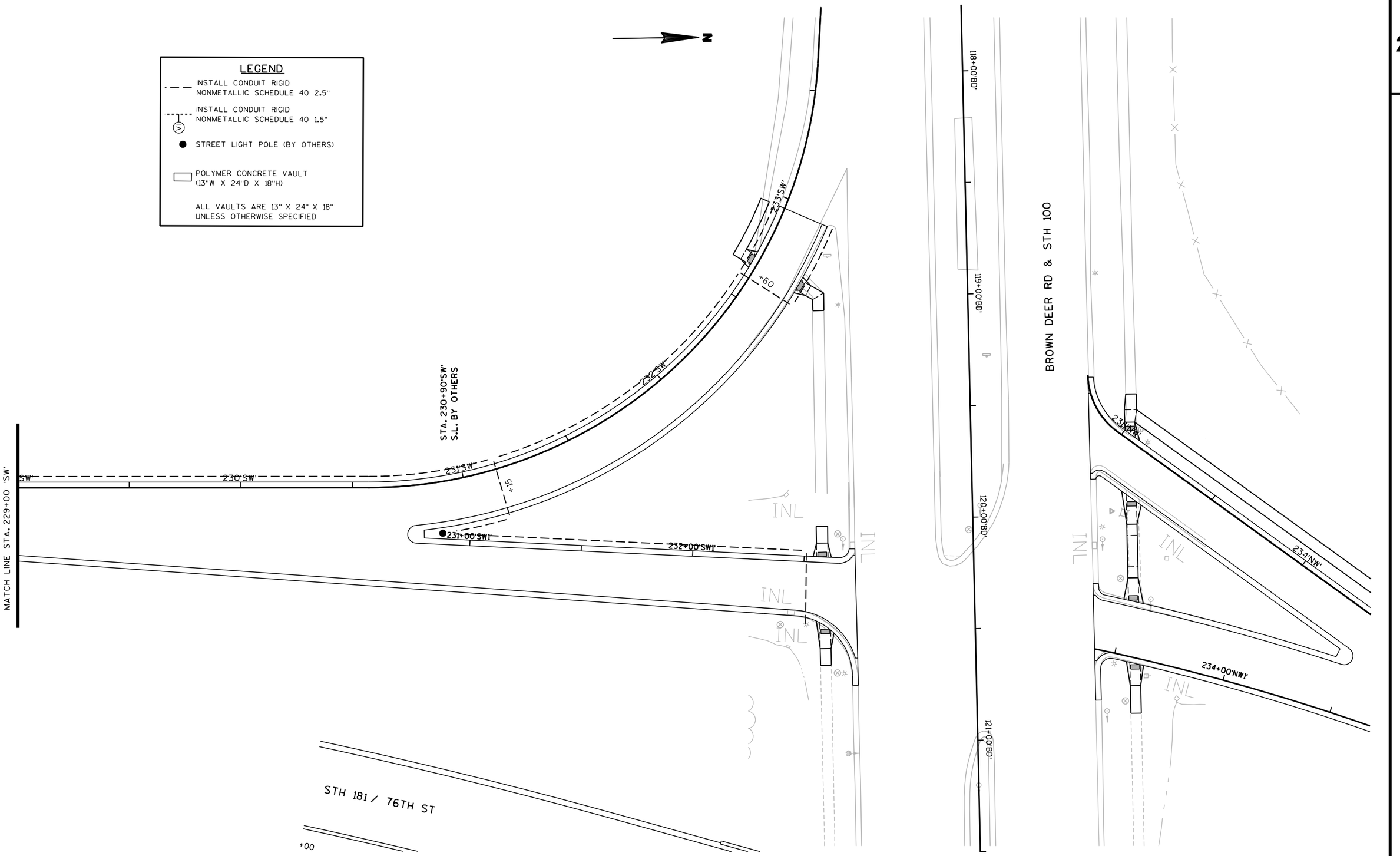
- INSTALL CONDUIT RIGID NONMETALLIC SCHEDULE 40 2.5"
- INSTALL CONDUIT RIGID NONMETALLIC SCHEDULE 40 1.5" (SL)
- STREET LIGHT POLE (BY OTHERS)
- POLYMER CONCRETE VAULT (13"W X 24"D X 18"H)

ALL VAULTS ARE 13" X 24" X 18" UNLESS OTHERWISE SPECIFIED

PROJECT NO: 2140-08-73	HWY: STH 181	COUNTY: MILWAUKEE	LIGHTING CONDUIT PLAN	SHEET 211	E

LEGEND

- INSTALL CONDUIT RIGID NONMETALLIC SCHEDULE 40 2.5"
- INSTALL CONDUIT RIGID NONMETALLIC SCHEDULE 40 1.5"
- (S) STREET LIGHT POLE (BY OTHERS)
- POLYMER CONCRETE VAULT (13"W X 24"D X 18"H)
- ALL VAULTS ARE 13" X 24" X 18" UNLESS OTHERWISE SPECIFIED

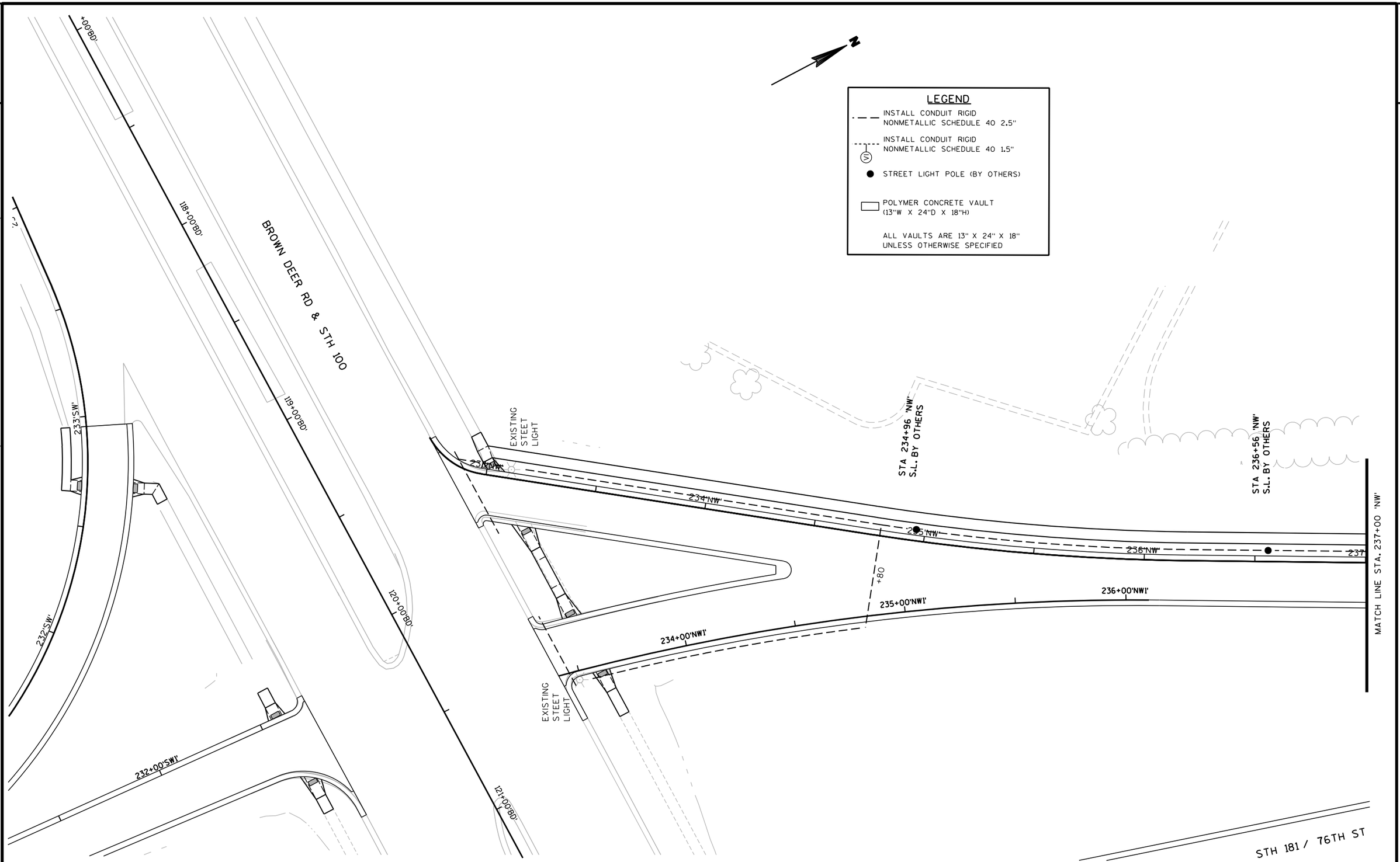


PROJECT NO: 2140-08-73	HWY: STH 181	COUNTY: MILWAUKEE	LIGHTING CONDUIT PLAN	SHEET	E

FILE NAME : s:\@sai\051--100\089\099\micros\design\0873\023529_lp.dgn PLOT DATE : 7/30/2007 PLOT BY : $$...plotuser...$$ PLOT NAME : PLOT SCALE : $$.....plotscale.....$$ WISDOT/CADDS SHEET 42

2

2



PROJECT NO: 2140-08-73	HWY: STH 181	COUNTY: MILWAUKEE	LIGHTING CONDUIT PLAN	SHEET 213	E

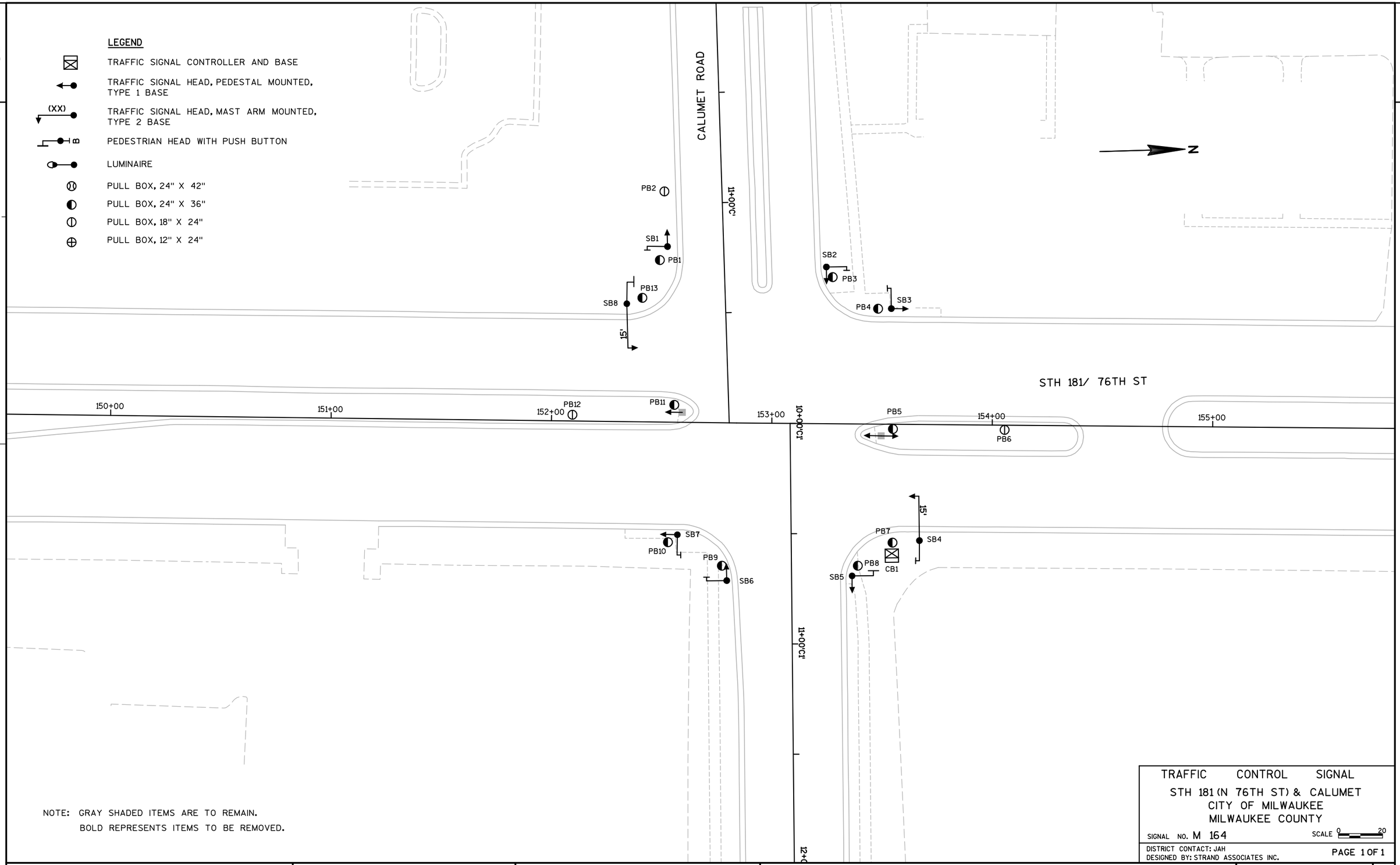
FILE NAME : s:\@sai\051--100\089\099\micros\design\0873\023530_lp.dgn PLOT DATE : 7/30/2007 PLOT BY : $$...plotuser...$$ PLOT NAME : PLOT SCALE : $$.....plotscale.....$$

WISDOT/CADDS SHEET 42

2

LEGEND

- TRAFFIC SIGNAL CONTROLLER AND BASE
- TRAFFIC SIGNAL HEAD, PEDESTAL MOUNTED, TYPE 1 BASE
- (XX) TRAFFIC SIGNAL HEAD, MAST ARM MOUNTED, TYPE 2 BASE
- B PEDESTRIAN HEAD WITH PUSH BUTTON
- LUMINAIRE
- PULL BOX, 24" X 42"
- PULL BOX, 24" X 36"
- PULL BOX, 18" X 24"
- PULL BOX, 12" X 24"



NOTE: GRAY SHADED ITEMS ARE TO REMAIN.
BOLD REPRESENTS ITEMS TO BE REMOVED.

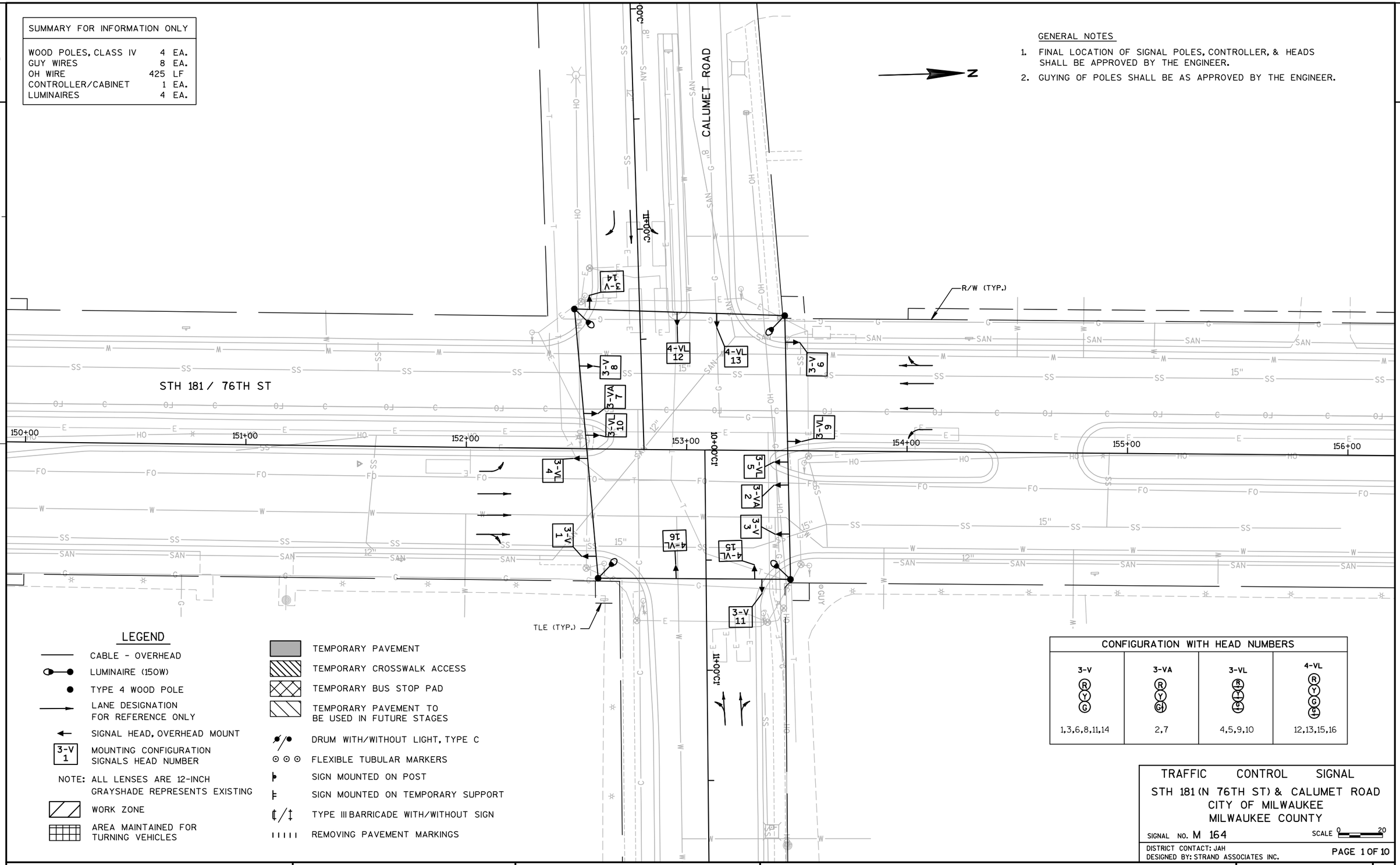
TRAFFIC CONTROL SIGNAL
STH 181 (N 76TH ST) & CALUMET
CITY OF MILWAUKEE
MILWAUKEE COUNTY
SIGNAL NO. M 164
SCALE 0 20
DISTRICT CONTACT: JAH
DESIGNED BY: STRAND ASSOCIATES INC.
PAGE 1 OF 1

PROJECT NO: 2140-08-73	HWY: STH 181	COUNTY: MILWAUKEE	TRAFFIC SIGNAL REMOVAL PLAN	SHEET 214	E

SUMMARY FOR INFORMATION ONLY	
WOOD POLES, CLASS IV	4 EA.
GUY WIRES	8 EA.
OH WIRE	425 LF
CONTROLLER/CABINET	1 EA.
LUMINAIRES	4 EA.

GENERAL NOTES

1. FINAL LOCATION OF SIGNAL POLES, CONTROLLER, & HEADS SHALL BE APPROVED BY THE ENGINEER.
2. GUYING OF POLES SHALL BE AS APPROVED BY THE ENGINEER.



LEGEND

- CABLE - OVERHEAD
- LUMINAIRE (150W)
- TYPE 4 WOOD POLE
- LANE DESIGNATION FOR REFERENCE ONLY
- SIGNAL HEAD, OVERHEAD MOUNT
- 3-V 1 — MOUNTING CONFIGURATION SIGNALS HEAD NUMBER
- NOTE: ALL LENSES ARE 12-INCH GRAYSHADE REPRESENTS EXISTING
- WORK ZONE
- AREA MAINTAINED FOR TURNING VEHICLES
- TEMPORARY PAVEMENT
- TEMPORARY CROSSWALK ACCESS
- TEMPORARY BUS STOP PAD
- TEMPORARY PAVEMENT TO BE USED IN FUTURE STAGES
- DRUM WITH/WITHOUT LIGHT, TYPE C
- FLEXIBLE TUBULAR MARKERS
- SIGN MOUNTED ON POST
- SIGN MOUNTED ON TEMPORARY SUPPORT
- TYPE III BARRICADE WITH/WITHOUT SIGN
- REMOVING PAVEMENT MARKINGS

CONFIGURATION WITH HEAD NUMBERS			
3-V (R Y G)	3-VA (R Y G)	3-VL (R Y G)	4-VL (R Y G G)
1,3,6,8,11,14	2,7	4,5,9,10	12,13,15,16

TRAFFIC CONTROL SIGNAL

STH 181 (N 76TH ST) & CALUMET ROAD
CITY OF MILWAUKEE
MILWAUKEE COUNTY

SIGNAL NO. M 164 SCALE 0 20

DISTRICT CONTACT: JAH
DESIGNED BY: STRAND ASSOCIATES INC.

PAGE 1 OF 10

PROJECT NO: 2140-08-73	HWY: STH 181	COUNTY: MILWAUKEE	TEMPORARY SIGNAL PLAN - PRE-STAGE 1	SHEET 215	E

FILE NAME : s:\@sai\051--100\089\099\micros\design\0873\024110_sp.dgn PLOT DATE : 7/30/2007 PLOT BY : $$...plotuser...$$ PLOT NAME : PLOT SCALE : $$.....plotscale.....$$ WISDOT/CADDS SHEET 42

2

GENERAL NOTES

1. FINAL LOCATION OF SIGNAL POLES, CONTROLLER, & HEADS SHALL BE APPROVED BY THE ENGINEER.
2. GUYING OF POLES SHALL BE AS APPROVED BY THE ENGINEER.

N

CALUMET ROAD

STH 181 / 76TH ST

R/W (TYP.)

TLE (TYP.)

ONLY

3-V 14 · 3-V 8 · 3-VA 7 · 3-VL 10 · 4-VL 12 · 4-VL 13 · 3-V 6 · 3-VL 9 · 3-VL 5 · 3-VA 2 · 3-V 3 · 4-VL 16 · 4-VL 15 · 3-VL 4 · 3-V 1 · 3-V 11

11+00C'L · 10+00C'L · 11+00C'L

150+00 · 151+00 · 152+00 · 153+00 · 154+00 · 155+00 · 156+00

LEGEND

- CABLE - OVERHEAD
- LUMINAIRE (150W)
- TYPE 4 WOOD POLE
- LANE DESIGNATION FOR REFERENCE ONLY
- SIGNAL HEAD, OVERHEAD MOUNT
- 3-V 1 — MOUNTING CONFIGURATION SIGNALS HEAD NUMBER
- NOTE: ALL LENSES ARE 12-INCH GRAYSHADE REPRESENTS EXISTING
- WORK ZONE
- AREA MAINTAINED FOR TURNING VEHICLES
- TEMPORARY PAVEMENT
- TEMPORARY CROSSWALK ACCESS
- TEMPORARY BUS STOP PAD
- TEMPORARY PAVEMENT TO BE USED IN FUTURE STAGES
- DRUM WITH/WITHOUT LIGHT, TYPE C
- FLEXIBLE TUBULAR MARKERS
- SIGN MOUNTED ON POST
- SIGN MOUNTED ON TEMPORARY SUPPORT
- TYPE III BARRICADE WITH/WITHOUT SIGN
- REMOVING PAVEMENT MARKINGS

CONFIGURATION WITH HEAD NUMBERS			
3-V (R Y G)	3-VA (R Y G)	3-VL (R Y G)	4-VL (R Y G G)
1,3,6,8,11,14	2,7	4,5,9,10	12,13,15,16

TRAFFIC CONTROL SIGNAL

STH 181 (N 76TH ST) & CALUMET ROAD
CITY OF MILWAUKEE
MILWAUKEE COUNTY

SIGNAL NO. M 164 — SCALE 0 20

DISTRICT CONTACT: JAH
DESIGNED BY: STRAND ASSOCIATES INC.

PAGE 2 OF 10

PROJECT NO: 2140-08-73	HWY: STH 181	COUNTY: MILWAUKEE	TEMPORARY SIGNAL PLAN - STAGE 1	SHEET 216	E

FILE NAME : s:\@sai\051--100\089\099\micros\design\0873\024111_sp.dgn — PLOT DATE : 7/30/2007 — PLOT BY : $$...plotuser...$$ PLOT NAME : — PLOT SCALE : $$.....plotscale.....$$

2

GENERAL NOTES

1. FINAL LOCATION OF SIGNAL POLES, CONTROLLER, & HEADS SHALL BE APPROVED BY THE ENGINEER.
2. GUYING OF POLES SHALL BE AS APPROVED BY THE ENGINEER.

N

CALUMET ROAD

STH 181 / 76TH ST

R/W (TYP.)

TLE (TYP.)

150+00 151+00 152+00 153+00 154+00 155+00 156+00

11+00 CT

10+00 CT

3-V 14 | 4-VL 12 | 4-VL 13 | 3-V 8 | 3-VA 7 | 3-VL 10 | 3-V 4 | 3-V 1 | 3-V 6 | 3-VL 5 | 3-VA 2 | 3-V 3 | 4-VL 16 | 4-VL 15 | 3-V 11

LEGEND

- CABLE - OVERHEAD
- LUMINAIRE (150W)
- TYPE 4 WOOD POLE
- LANE DESIGNATION FOR REFERENCE ONLY
- SIGNAL HEAD, OVERHEAD MOUNT
- 3-V 1 MOUNTING CONFIGURATION SIGNALS HEAD NUMBER
- NOTE: ALL LENSES ARE 12-INCH GRAYSHADE REPRESENTS EXISTING
- WORK ZONE
- AREA MAINTAINED FOR TURNING VEHICLES
- TEMPORARY PAVEMENT
- TEMPORARY CROSSWALK ACCESS
- TEMPORARY BUS STOP PAD
- TEMPORARY PAVEMENT TO BE USED IN FUTURE STAGES
- DRUM WITH/WITHOUT LIGHT, TYPE C
- FLEXIBLE TUBULAR MARKERS
- SIGN MOUNTED ON POST
- SIGN MOUNTED ON TEMPORARY SUPPORT
- TYPE III BARRICADE WITH/WITHOUT SIGN
- REMOVING PAVEMENT MARKINGS

CONFIGURATION WITH HEAD NUMBERS			
3-V (R Y G)	3-VA (R Y G)	3-VL (R Y G)	4-VL (R Y G G)
1,3,6,8,11,14	2,7	4,5,9,10	12,13,15,16

TRAFFIC CONTROL SIGNAL

STH 181 (N 76TH ST) & CALUMET ROAD
CITY OF MILWAUKEE
MILWAUKEE COUNTY

SIGNAL NO. M 164 SCALE 0 20

DISTRICT CONTACT: JAH
DESIGNED BY: STRAND ASSOCIATES INC.

PAGE 3 OF 10

PROJECT NO: 2140-08-73	HWY: STH 181	COUNTY: MILWAUKEE	TEMPORARY SIGNAL PLAN - STAGE 2 PHASE I	SHEET 217 E

2

GENERAL NOTES

1. FINAL LOCATION OF SIGNAL POLES, CONTROLLER, & HEADS SHALL BE APPROVED BY THE ENGINEER.
2. GUYING OF POLES SHALL BE AS APPROVED BY THE ENGINEER.

N

CALUMET ROAD

STH 181 / 76TH ST

R/W (TYP.)

TLE (TYP.)

10+00 C.L.

11+00 C.L.

3-V 1 · 3-VA 2 · 3-V 3 · 4-VL 4 · 3-VL 5 · 3-VL 6 · 3-V 8 · 3-VA 7 · 3-VL 10 · 4-VL 12 · 4-VL 13 · 3-V 9 · 3-V 14 · 4-VL 15 · 4-VL 16 · 3-V 11

150+00 · 151+00 · 152+00 · 153+00 · 154+00 · 155+00 · 156+00

LEGEND

- CABLE - OVERHEAD
- LUMINAIRE (150W)
- TYPE 4 WOOD POLE
- LANE DESIGNATION FOR REFERENCE ONLY
- SIGNAL HEAD, OVERHEAD MOUNT
- 3-V 1 — MOUNTING CONFIGURATION SIGNALS HEAD NUMBER
- NOTE: ALL LENSES ARE 12-INCH GRAYSHADE REPRESENTS EXISTING
- WORK ZONE
- AREA MAINTAINED FOR TURNING VEHICLES
- TEMPORARY PAVEMENT
- TEMPORARY CROSSWALK ACCESS
- TEMPORARY BUS STOP PAD
- TEMPORARY PAVEMENT TO BE USED IN FUTURE STAGES
- DRUM WITH/WITHOUT LIGHT, TYPE C
- FLEXIBLE TUBULAR MARKERS
- SIGN MOUNTED ON POST
- SIGN MOUNTED ON TEMPORARY SUPPORT
- TYPE III BARRICADE WITH/WITHOUT SIGN
- REMOVING PAVEMENT MARKINGS

CONFIGURATION WITH HEAD NUMBERS			
3-V (R Y G)	3-VA (R Y G)	3-VL (R Y G)	4-VL (R Y G G)
1,3,6,8,11,14	2,7	4,5,9,10	12,13,15,16

TRAFFIC CONTROL SIGNAL

STH 181 (N 76TH ST) & CALUMET ROAD
CITY OF MILWAUKEE
MILWAUKEE COUNTY

SIGNAL NO. M 164 SCALE 0 20

DISTRICT CONTACT: JAH
DESIGNED BY: STRAND ASSOCIATES INC.

PAGE 4 OF 10

PROJECT NO: 2140-08-73	HWY: STH 181	COUNTY: MILWAUKEE	TEMPORARY SIGNAL PLAN - STAGE 2 PHASE II	SHEET 218 E

2

GENERAL NOTES

1. FINAL LOCATION OF SIGNAL POLES, CONTROLLER, & HEADS SHALL BE APPROVED BY THE ENGINEER.
2. GUYING OF POLES SHALL BE AS APPROVED BY THE ENGINEER.

N

CALUMET ROAD

STH 181 / 76TH ST

R/W (TYP.)

TLE (TYP.)

3-V 14
4-VL 12
4-VL 13
3-V 8
3-V 6
3-VL 4
3-VA 7
3-VL 10
3-VL 5
3-VA 2
3-V 3
3-V 1
4-VL 16
4-VL 15
3-V 11
3-VL 9

150+00 151+00 152+00 153+00 154+00 155+00 156+00

10+00 C.L.

11+00 C.L.

LEGEND

- CABLE - OVERHEAD
- LUMINAIRE (150W)
- TYPE 4 WOOD POLE
- LANE DESIGNATION FOR REFERENCE ONLY
- SIGNAL HEAD, OVERHEAD MOUNT
- 3-V 1 MOUNTING CONFIGURATION SIGNALS HEAD NUMBER
- NOTE: ALL LENSES ARE 12-INCH GRAYSHADE REPRESENTS EXISTING
- WORK ZONE
- AREA MAINTAINED FOR TURNING VEHICLES
- TEMPORARY PAVEMENT
- TEMPORARY CROSSWALK ACCESS
- TEMPORARY BUS STOP PAD
- TEMPORARY PAVEMENT TO BE USED IN FUTURE STAGES
- DRUM WITH/WITHOUT LIGHT, TYPE C
- FLEXIBLE TUBULAR MARKERS
- SIGN MOUNTED ON POST
- SIGN MOUNTED ON TEMPORARY SUPPORT
- TYPE III BARRICADE WITH/WITHOUT SIGN
- REMOVING PAVEMENT MARKINGS

CONFIGURATION WITH HEAD NUMBERS			
3-V (R Y G)	3-VA (R Y G)	3-VL (B Y G)	4-VL (R Y G G)
1,3,6,8,11,14	2,7	4,5,9,10	12,13,15,16

TRAFFIC CONTROL SIGNAL

STH 181 (N 76TH ST) & CALUMET ROAD
CITY OF MILWAUKEE
MILWAUKEE COUNTY

SIGNAL NO. M 164 SCALE 0 20

DISTRICT CONTACT: JAH
DESIGNED BY: STRAND ASSOCIATES INC.

PAGE 5 OF 10

PROJECT NO: 2140-08-73	HWY: STH 181	COUNTY: MILWAUKEE	TEMPORARY SIGNAL PLAN - STAGE 3 PHASE I	SHEET 219	E

FILE NAME : s:\@sai\051--100\089\099\micros\design\0873\024114_sp.dgn PLOT DATE : 7/30/2007 PLOT BY : $$...plotuser...$$ PLOT NAME : PLOT SCALE : $$.....plotscale.....$$ WISDOT/CADDS SHEET 42

2

GENERAL NOTES

1. FINAL LOCATION OF SIGNAL POLES, CONTROLLER, & HEADS SHALL BE APPROVED BY THE ENGINEER.
2. GUYING OF POLES SHALL BE AS APPROVED BY THE ENGINEER.

N

CALUMET ROAD

STH 181 / 76TH ST

R/W (TYP.)

TLE (TYP.)

150+00 151+00 152+00 153+00 154+00 155+00 156+00

10+00 Ct.

11+00 Ct.

3-V 14 · 4-VL 12 · 4-VL 13 · 3-V 8 · 3-VA 7 · 3-VL 10 · 3-VL 4 · 3-V 1 · 4-VL 16 · 4-VL 15 · 3-V 3 · 3-VA 2 · 3-VL 5 · 3-VL 9 · 3-V 6 · 3-V 11

LEGEND

- CABLE - OVERHEAD
- LUMINAIRE (150W)
- TYPE 4 WOOD POLE
- LANE DESIGNATION FOR REFERENCE ONLY
- SIGNAL HEAD, OVERHEAD MOUNT
- 3-V 1 MOUNTING CONFIGURATION SIGNALS HEAD NUMBER
- NOTE: ALL LENSES ARE 12-INCH GRAYSHADE REPRESENTS EXISTING
- WORK ZONE
- AREA MAINTAINED FOR TURNING VEHICLES
- TEMPORARY PAVEMENT
- TEMPORARY CROSSWALK ACCESS
- TEMPORARY BUS STOP PAD
- TEMPORARY PAVEMENT TO BE USED IN FUTURE STAGES
- DRUM WITH/WITHOUT LIGHT, TYPE C
- FLEXIBLE TUBULAR MARKERS
- SIGN MOUNTED ON POST
- SIGN MOUNTED ON TEMPORARY SUPPORT
- TYPE III BARRICADE WITH/WITHOUT SIGN
- REMOVING PAVEMENT MARKINGS

CONFIGURATION WITH HEAD NUMBERS			
3-V (R Y G)	3-VA (R Y G)	3-VL (B Y G)	4-VL (R Y G G)
1,3,6,8,11,14	2,7	4,5,9,10	12,13,15,16

TRAFFIC CONTROL SIGNAL

STH 181 (N 76TH ST) & CALUMET ROAD
CITY OF MILWAUKEE
MILWAUKEE COUNTY

SIGNAL NO. M 164 SCALE 0 20

DISTRICT CONTACT: JAH
DESIGNED BY: STRAND ASSOCIATES INC.

PAGE 6 OF 10

PROJECT NO: 2140-08-73	HWY: STH 181	COUNTY: MILWAUKEE	TEMPORARY SIGNAL PLAN - STAGE 3 PHASE II	SHEET 220	E

FILE NAME : s:\@sai\051--100\089\099\micros\design\0873\024115_sp.dgn PLOT DATE : 7/30/2007 PLOT BY : $$...plotuser...$$ PLOT NAME : PLOT SCALE : $$.....plotscale.....$$ WISDOT/CADDS SHEET 42

2

GENERAL NOTES

1. FINAL LOCATION OF SIGNAL POLES, CONTROLLER, & HEADS SHALL BE APPROVED BY THE ENGINEER.
2. GUYING OF POLES SHALL BE AS APPROVED BY THE ENGINEER.

N

CALUMET ROAD

STH 181 / 76TH ST

R/W (TYP.)

TLE (TYP.)

3-V 14
4-VL 12
4-VL 13
3-V 8
3-VA 7
3-VL 10
3-VL 4
3-V 6
3-VL 9
3-VA 5
3-VA 2
3-V 3
4-VL 16
4-VL 15
3-V 1
3-V 11

150+00 151+00 152+00 153+00 154+00 155+00 156+00

11+00 CL

LEGEND

- CABLE - OVERHEAD
- LUMINAIRE (150W)
- TYPE 4 WOOD POLE
- LANE DESIGNATION FOR REFERENCE ONLY
- SIGNAL HEAD, OVERHEAD MOUNT
- 3-V 1 MOUNTING CONFIGURATION SIGNALS HEAD NUMBER
- NOTE: ALL LENSES ARE 12-INCH GRAYSHADE REPRESENTS EXISTING
- WORK ZONE
- AREA MAINTAINED FOR TURNING VEHICLES
- TEMPORARY PAVEMENT
- TEMPORARY CROSSWALK ACCESS
- TEMPORARY BUS STOP PAD
- TEMPORARY PAVEMENT TO BE USED IN FUTURE STAGES
- DRUM WITH/WITHOUT LIGHT, TYPE C
- FLEXIBLE TUBULAR MARKERS
- SIGN MOUNTED ON POST
- SIGN MOUNTED ON TEMPORARY SUPPORT
- TYPE III BARRICADE WITH/WITHOUT SIGN
- REMOVING PAVEMENT MARKINGS

CONFIGURATION WITH HEAD NUMBERS			
3-V (R Y G)	3-VA (R Y G)	3-VL (R Y G)	4-VL (R Y G G)
1,3,6,8,11,14	2,7	4,5,9,10	12,13,15,16

TRAFFIC CONTROL SIGNAL
STH 181 (N 76TH ST) & CALUMET ROAD
CITY OF MILWAUKEE
MILWAUKEE COUNTY

SIGNAL NO. M 164 SCALE 0 20

DISTRICT CONTACT: JAH
DESIGNED BY: STRAND ASSOCIATES INC.

PAGE 7 OF 10

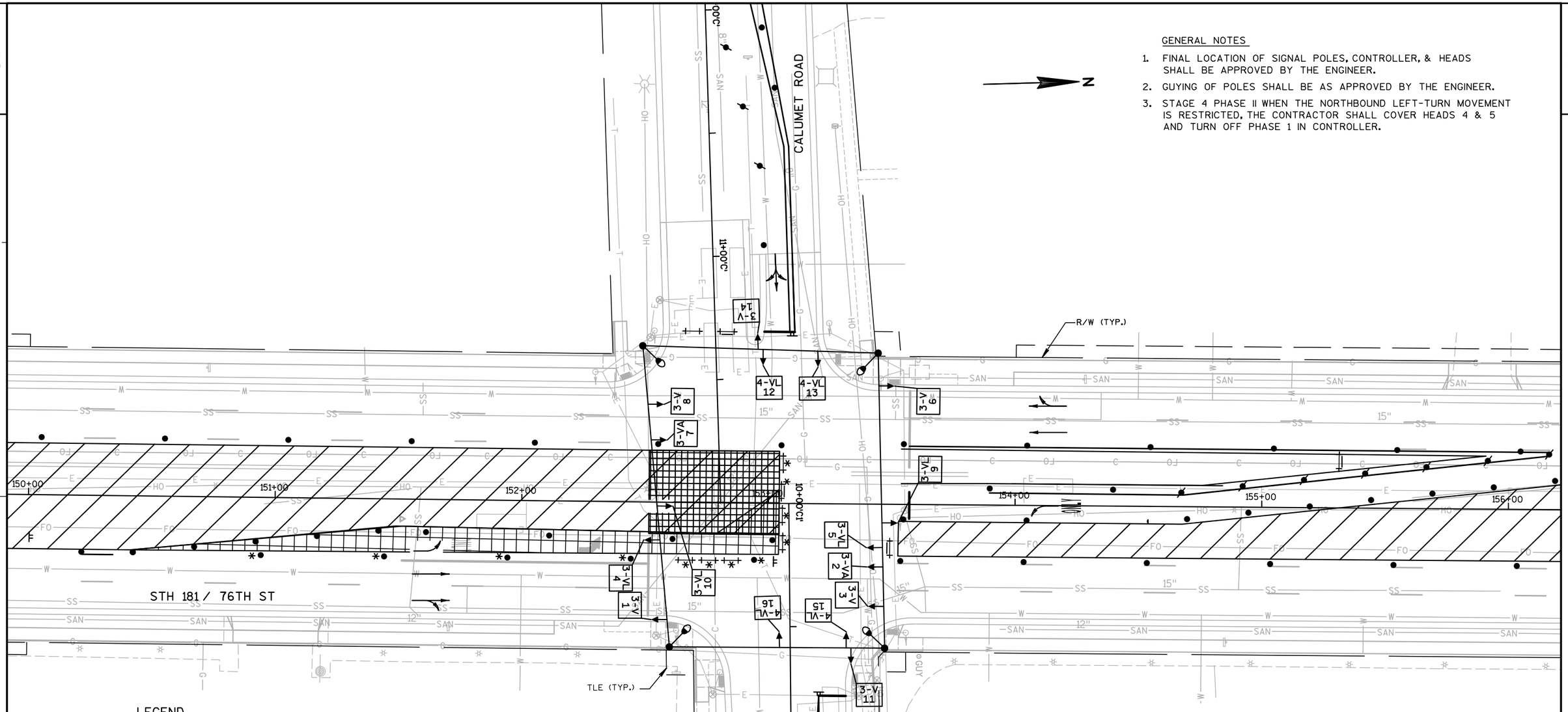
PROJECT NO: 2140-08-73	HWY: STH 181	COUNTY: MILWAUKEE	TEMPORARY SIGNAL PLAN - STAGE 4 PHASE I	SHEET	E

FILE NAME : s:\@sai\051--100\089\099\micros\design\0873\024116_sp.dgn PLOT DATE : 7/30/2007 PLOT BY : $$...plotuser...$$ PLOT NAME : PLOT SCALE : $$.....plotscale.....$$

2

GENERAL NOTES

1. FINAL LOCATION OF SIGNAL POLES, CONTROLLER, & HEADS SHALL BE APPROVED BY THE ENGINEER.
2. GUYING OF POLES SHALL BE AS APPROVED BY THE ENGINEER.
3. STAGE 4 PHASE II WHEN THE NORTHBOUND LEFT-TURN MOVEMENT IS RESTRICTED, THE CONTRACTOR SHALL COVER HEADS 4 & 5 AND TURN OFF PHASE 1 IN CONTROLLER.



LEGEND

- CABLE - OVERHEAD
- LUMINAIRE (150W)
- TYPE 4 WOOD POLE
- LANE DESIGNATION FOR REFERENCE ONLY
- SIGNAL HEAD, OVERHEAD MOUNT
- 3-V 1 — MOUNTING CONFIGURATION SIGNALS HEAD NUMBER
- NOTE: ALL LENSES ARE 12-INCH GRAYSHADE REPRESENTS EXISTING
- WORK ZONE
- AREA MAINTAINED FOR TURNING VEHICLES
- TEMPORARY PAVEMENT
- TEMPORARY CROSSWALK ACCESS
- TEMPORARY BUS STOP PAD
- TEMPORARY PAVEMENT TO BE USED IN FUTURE STAGES
- DRUM WITH/WITHOUT LIGHT, TYPE C
- FLEXIBLE TUBULAR MARKERS
- SIGN MOUNTED ON POST
- SIGN MOUNTED ON TEMPORARY SUPPORT
- TYPE III BARRICADE WITH/WITHOUT SIGN
- REMOVING PAVEMENT MARKINGS

CONFIGURATION WITH HEAD NUMBERS			
3-V (R Y G)	3-VA (R Y G)	3-VL (R Y G)	4-VL (R Y G G)
1,3,6,8,11,14	2,7	4,5,9,10	12,13,15,16

TRAFFIC CONTROL SIGNAL
STH 181 (N 76TH ST) & CALUMET ROAD
CITY OF MILWAUKEE
MILWAUKEE COUNTY

SIGNAL NO. M 164 SCALE 0 20

DISTRICT CONTACT: JAH
DESIGNED BY: STRAND ASSOCIATES INC.

PAGE 8 OF 10

PROJECT NO: 2140-08-73	HWY: STH 181	COUNTY: MILWAUKEE	TEMPORARY SIGNAL PLAN - STAGE 4 PHASE II	SHEET 222	E

2

GENERAL NOTES

1. FINAL LOCATION OF SIGNAL POLES, CONTROLLER, & HEADS SHALL BE APPROVED BY THE ENGINEER.
2. GUYING OF POLES SHALL BE AS APPROVED BY THE ENGINEER.

N

CALUMET ROAD

STH 181 / 76TH ST

R/W (TYP.)

TLE (TYP.)

3-V 14 · 4-VL 12 · 4-VL 13 · 3-V 8 · 3-V 6 · 3-VA 7 · 5-VL 4 · 3-VL 10 · 3-VL 5 · 3-VA 2 · 6-VL 3 · 3-V 3 · 3-V 1 · 4-VL 16 · 4-VL 15 · 3-V 11

11+00C · 10+00C · 11+00C

150+00 · 151+00 · 152+00 · 153+00 · 154+00 · 155+00 · 156+00

LEGEND

- CABLE - OVERHEAD
- LUMINAIRE (150W)
- TYPE 4 WOOD POLE
- LANE DESIGNATION FOR REFERENCE ONLY
- SIGNAL HEAD, OVERHEAD MOUNT
- 3-V 1 — MOUNTING CONFIGURATION SIGNALS HEAD NUMBER
- NOTE: ALL LENSES ARE 12-INCH GRAYSHADE REPRESENTS EXISTING
- WORK ZONE
- AREA MAINTAINED FOR TURNING VEHICLES
- TEMPORARY PAVEMENT
- TEMPORARY CROSSWALK ACCESS
- TEMPORARY BUS STOP PAD
- TEMPORARY PAVEMENT TO BE USED IN FUTURE STAGES
- DRUM WITH/WITHOUT LIGHT, TYPE C
- FLEXIBLE TUBULAR MARKERS
- SIGN MOUNTED ON POST
- SIGN MOUNTED ON TEMPORARY SUPPORT
- TYPE III BARRICADE WITH/WITHOUT SIGN
- REMOVING PAVEMENT MARKINGS

CONFIGURATION WITH HEAD NUMBERS			
3-V (R Y G)	3-VA (R Y G)	3-VL (R Y G)	4-VL (R Y G G)
1,3,6,8,11,14	2,7	4,5,9,10	12,13,15,16

TRAFFIC CONTROL SIGNAL
STH 181 (N 76TH ST) & CALUMET ROAD
CITY OF MILWAUKEE
MILWAUKEE COUNTY

SIGNAL NO. M 164 — SCALE 0 20

DISTRICT CONTACT: JAH
DESIGNED BY: STRAND ASSOCIATES INC.

PAGE 9 OF 10

PROJECT NO: 2140-08-73	HWY: STH 181	COUNTY: MILWAUKEE	TEMPORARY SIGNAL PLAN - STAGE 4 PHASE III	SHEET 223	E

SEQUENCE OF OPERATION

RING 1

	HEAD NUMBERS	Ø1 R/W	Ø1 ✳✳	Ø1 CLEAR TO	Ø2 R/W	Ø2 ✳✳	Ø2 CLEAR TO	Ø3 R/W	Ø3 ✳✳	Ø3 CLEAR TO	Ø4 R/W	Ø4 ✳✳	Ø4 CLEAR TO	FLASH
Ø1	4,5	G ←	Y ←	R ←	R ←	R ←	R ←	R ←	R ←	R ←	R ←	R ←	R ←	R ←
Ø2	6,7,8	R	R	R	G,G ↓	Y	R	R	R	R	R	R	R	R
Ø3	14,15,16	R	R	R	R	R	R	G,G ←	Y	R	R	R	R	R
Ø4	11,12,13	R	R	R	R	R	R	R	R	R	G,G ←	Y	R	R
Ø5	9,10	R ←	R ←	R ←	R ←	R ←	R ←	R ←	R ←	R ←	R ←	R ←	R ←	R ←
Ø6	1,2,3	R	R	R	R	R	R	R	R	R	R	R	R	R
Ø7														
Ø8														
Ø2P														
Ø4P														
Ø6P														
Ø8P														

RING 2

	HEAD NUMBERS	Ø5 R/W	Ø5 ✳✳	Ø5 CLEAR TO	Ø6 R/W	Ø6 ✳✳	Ø6 CLEAR TO	Ø7 R/W	Ø7 ✳✳	Ø7 CLEAR TO	Ø8 R/W	Ø8 ✳✳	Ø8 CLEAR TO
Ø1	4,5	R ←	R ←	R ←	R ←	R ←	R ←						
Ø2	6,7,8	R	R	R	R	R	R						
Ø3	14,15,16	R	R	R	R	R	R						
Ø4	11,12,13	R	R	R	R	R	R						
Ø5	9,10	G ←	Y ←	R ←	R ←	R ←	R ←						
Ø6	1,2,3	R	R	R	G,G ↓	Y	R						
Ø7													
Ø8													
Ø2P													
Ø4P													
Ø6P													
Ø8P													

BARRIER

** CLEARANCE TO A PHASE IN CONFLICT WITH THIS PHASE ON (SEE CHART 1)

N

CONTROLLER LOGIC

PHASE NUMBER	PHASE LOCKING	DUAL ENTRY W / Ø	PHASE RECALL	PHASE ACTIVE
1			MAX	X
2			MAX	X
3			MAX	X
4			MAX	X
5			MAX	X
6			MAX	X
7				
8				

OVERLAPS

O.L. "A" =
O.L. "B" =
O.L. "C" =
O.L. "D" =

SIGNAL PHASING NOTES

1. STAGE 4 PHASE II WHEN THE NORTHBOUND LEFT-TURN MOVEMENT IS RESTRICTED, THE CONTRACTOR SHALL COVER HEADS 4 & 5 AND TURN OFF PHASE 1 IN THE CONTROLLER.

TYPE OF INTERCONNECT	
NONE	
TBC	X
CLOSED LOOP	
HARDWIRE	
TONE (FREQ)	
FIBER OPTIC	

TYPE OF PRE-EMPT	
NONE	X
RAILROAD	
EMERGENCY VEHICLE	

TYPE OF LIGHTING	
NONE	
IN TRAFFIC CONTROL CABINET	X
IN SEPARATE CONTROL CABINET	

GENERAL NOTES:

1. WHEN ONE PHASE IS ON ALONE, ANY NONCONFLICTING PHASE MAY START TIMING CONCURRENTLY WITHOUT A CLEARANCE INTERVAL. (SEE CHART 1 BELOW.)

CHART 1

PHASE ON	NONCONFLICTING PHASE ALLOWED TO TIME CONCURRENTLY	PHASES IN CONFLICT WITH PHASE ON
Ø1	5 OR 6	2,3,4
Ø2	5 OR 6	1,3,4
Ø3	NONE	1,2,4,5,6
Ø4	NONE	1,2,3,5,6
Ø5	1 OR 2	3,4,6
Ø6	1 OR 2	3,4,5
Ø7		
Ø8		

STH 181 & CALUMET ROAD
CITY OF MILWAUKEE
MILWAUKEE COUNTY

SIGNAL NO. M 164

CONTROLLER TYPE:

DATE 7/07

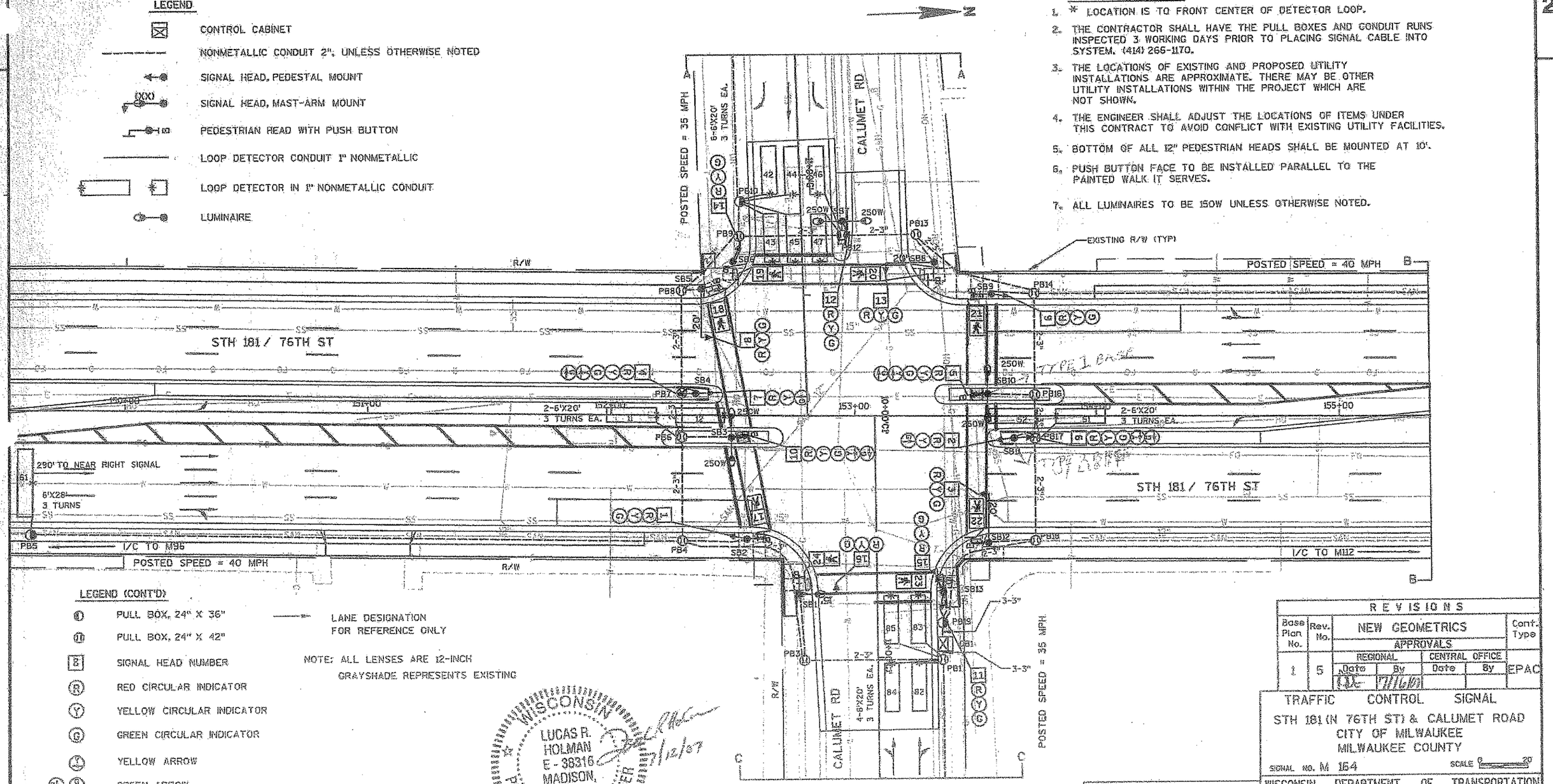
FILE NAME : s:\@sai\051--100\089\099\micros\design\0873\024119_ph.dgn PLOT DATE : 7/30/2007 PLOT BY : $$...plotuser...$$ PLOT NAME : PLOT SCALE : $$.....plotscale.....$$ WISDOT/CADDS SHEET 42

LEGEND

- CONTROL CABINET
- NONMETALLIC CONDUIT 2", UNLESS OTHERWISE NOTED
- SIGNAL HEAD, PEDESTAL MOUNT
- (XX) SIGNAL HEAD, MAST-ARM MOUNT
- PEDESTRIAN HEAD WITH PUSH BUTTON
- LOOP DETECTOR CONDUIT 1" NONMETALLIC
- LOOP DETECTOR IN 1" NONMETALLIC CONDUIT
- LUMINAIRE

CONSTRUCTION NOTES:

1. * LOCATION IS TO FRONT CENTER OF DETECTOR LOOP.
2. THE CONTRACTOR SHALL HAVE THE PULL BOXES AND CONDUIT RUNS INSPECTED 3 WORKING DAYS PRIOR TO PLACING SIGNAL CABLE INTO SYSTEM. (414) 266-1170.
3. THE LOCATIONS OF EXISTING AND PROPOSED UTILITY INSTALLATIONS ARE APPROXIMATE. THERE MAY BE OTHER UTILITY INSTALLATIONS WITHIN THE PROJECT WHICH ARE NOT SHOWN.
4. THE ENGINEER SHALL ADJUST THE LOCATIONS OF ITEMS UNDER THIS CONTRACT TO AVOID CONFLICT WITH EXISTING UTILITY FACILITIES.
5. BOTTOM OF ALL 12" PEDESTRIAN HEADS SHALL BE MOUNTED AT 10'.
6. PUSH BUTTON FACE TO BE INSTALLED PARALLEL TO THE PAINTED WALK IT SERVES.
7. ALL LUMINAIRES TO BE 150W UNLESS OTHERWISE NOTED.



LEGEND (CONT'D)

- PULL BOX, 24" X 36"
- PULL BOX, 24" X 42"
- SIGNAL HEAD NUMBER
- (R) RED CIRCULAR INDICATOR
- (Y) YELLOW CIRCULAR INDICATOR
- (G) GREEN CIRCULAR INDICATOR
- YELLOW ARROW
- GREEN ARROW
- DON'T WALK INDICATOR 12" / WALK INDICATOR 12"

LANE DESIGNATION FOR REFERENCE ONLY

NOTE: ALL LENSES ARE 12-INCH
GRAYSHADE REPRESENTS EXISTING

WISCONSIN
LUCAS R. HOLMAN
E-38316
MADISON, WI
PROFESSIONAL ENGINEER
7/12/07

REVISIONS						
Base Plan No.	Rev. No.	NEW GEOMETRICS				Cont. Type
		APPROVALS				
		REGIONAL		CENTRAL OFFICE		
		Date	By	Date	By	
1	5	[illegible]	[illegible]			EPAC

5-21-00 ADD LOOP DETECTOR 45
10-14-99 CHANGE YELLOW FLASH TO RED
9-8-93 DETECTION PUSH BUTTONS FOR SOUTH CROSSWALK
9-92 INSTALL NB & SB LEFT TURN ARROWS AND DETECTION

TRAFFIC CONTROL SIGNAL

STH 181 (N 76TH ST) & CALUMET ROAD
CITY OF MILWAUKEE
MILWAUKEE COUNTY

SIGNAL NO. M 164 SCALE 0 20'

WISCONSIN DEPARTMENT OF TRANSPORTATION

APPROVAL RECOMMENDED
Date 8/1/89 EDWARD J. FRIEDE, DISTRICT TRAFFIC ENGINEER

APPROVED
Date 8/23/89 H.O. PRICE, STATE TRAFFIC ENGINEER

DISTRICT CONTACT: JAH
DESIGNED BY: STRAND ASSOCIATES INC.

PAGE 1 OF 4

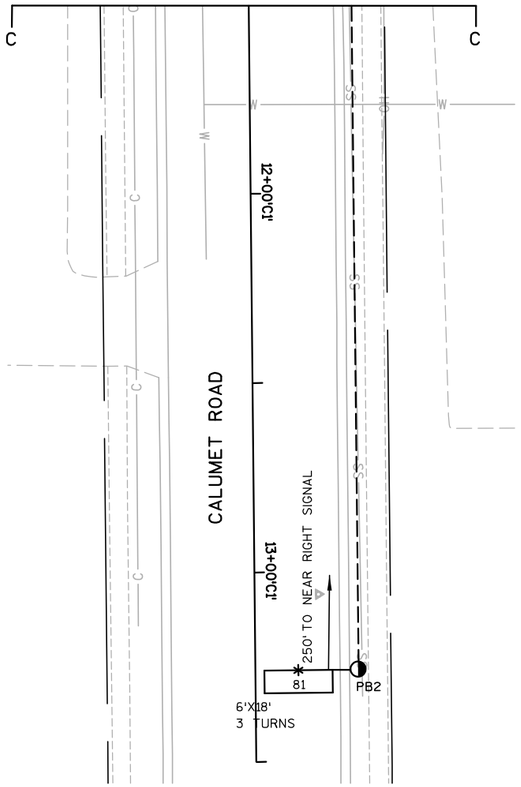
PROJECT NO: 2140-08-73	HWY: STH 181	COUNTY: MILWAUKEE	TRAFFIC SIGNAL PLAN	SHEET 225 225

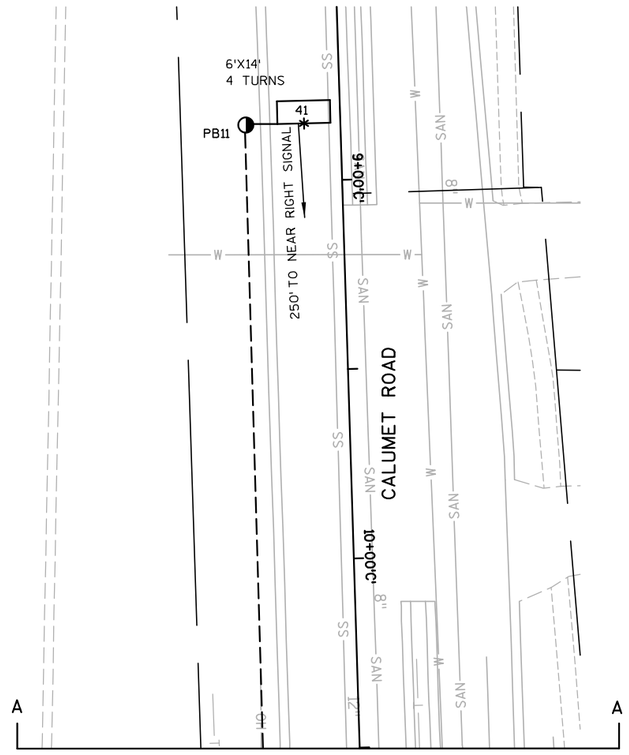
FILE NAME : S:\MSAE\051--100\089\099\Micros\DESIGN\0673\024120_sp.dgn PLOT DATE : 7/12/2007 PLOT BY : $$...plotuser...$$ PLOT NAME : PLOT SCALE : $$.....plotscale.....$$ WISDOT/CADDS SHEET 42

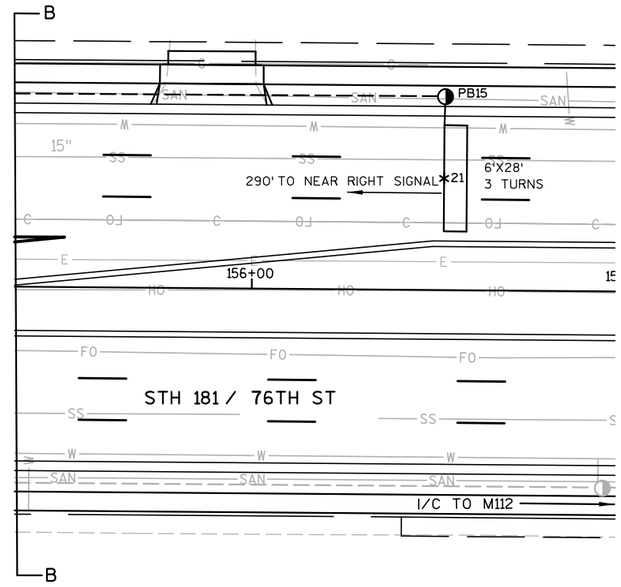
7-12-07 [illegible]

2

N







TRAFFIC CONTROL SIGNAL

STH 181 (N 76TH ST) & CALUMET ROAD
CITY OF MILWAUKEE
MILWAUKEE COUNTY

SIGNAL NO. M 164 SCALE 0 20

DISTRICT CONTACT: JAH
DESIGNED BY: STRAND ASSOCIATES INC.

PAGE 2 OF 4

PROJECT NO: 2140-08-73	HWY: STH 181	COUNTY: MILWAUKEE	TRAFFIC SIGNAL PLAN	SHEET 226	E

2

SEQUENCE OF OPERATION

RING 1

	HEAD NUMBERS	Ø1 R/W	Ø1 CLEAR TO **	Ø2 R/W	Ø2 CLEAR TO **	Ø3 R/W	Ø3 CLEAR TO **	Ø4 R/W	Ø4 CLEAR TO **	FLASH
							NOT USED			
Ø1	4,5	G ←	Y ← -	-	- -			-	- -	-
Ø2	6,7,8,9,10	R	R R	G, G↑	Y R			R	R R	R
Ø3										
Ø4	14,15,16	R	R R	R	R R			G	Y R	R
Ø5	9,10	-	- -	-	- -			-	- -	-
Ø6	1,2,3,4,5	R	R R	R	R R			R	R R	R
Ø7										
Ø8	11,12,13	R	R R	R	R R			R	R R	R
Ø2P	19,20	DW	DW DW	*	DW DW			DW	DW DW	
Ø4P	17,18	DW	DW DW	DW	DW DW			*	DW DW	
Ø6P	23,24	DW	DW DW	DW	DW DW			DW	DW DW	
Ø8P	21,22	DW	DW DW	DW	DW DW			DW	DW DW	

RING 2

	HEAD NUMBERS	Ø5 R/W	Ø5 CLEAR TO **	Ø6 R/W	Ø6 CLEAR TO **	Ø7 R/W	Ø7 CLEAR TO **	Ø8 R/W	Ø8 CLEAR TO **
							NOT USED		
Ø1	4,5	-	- -	-	- -			-	- -
Ø2	6,7,8,9,10	R	R R	R	R R			R	R R
Ø3									
Ø4	14,15,16	R	R R	R	R R			R	R R
Ø5	9,10	G ←	Y ← -	-	- -			-	- -
Ø6	1,2,3,4,5	R	R R	G, G↑	Y R			R	R R
Ø7									
Ø8	11,12,13	R	R R	R	R R			G	Y R
Ø2P	19,20	DW	DW DW	DW	DW DW			DW	DW DW
Ø4P	17,18	DW	DW DW	DW	DW DW			DW	DW DW
Ø6P	23,24	DW	DW DW	*	DW DW			DW	DW DW
Ø8P	21,22	DW	DW DW	DW	DW DW			*	DW DW

BARRIER

** CLEARANCE TO A PHASE IN CONFLICT WITH THIS PHASE ON (SEE CHART 1)

* WHEN CALLED, TIMED STEADY WALK, THEN FLASHING DON'T WALK, THEN GOES TO STEADY DON'T WALK

CHART 1

PHASE ON	NONCONFLICTING PHASE ALLOWED TO TIME CONCURRENTLY	PHASES IN CONFLICT WITH PHASE ON
Ø1	5 OR 6	2,4,8
Ø2	5 OR 6	1,4,8
Ø3		
Ø4	8	1,2,5,6
Ø5	1 OR 2	4,6,8
Ø6	1 OR 2	4,5,8
Ø7		
Ø8	4	1,2,5,6

DETECTOR LOGIC

DETECTOR NUMBER	AMPLIFIER CHANNEL NUMBER	DETECTOR OPERATION: CALLS AND EXTENDS	DETECTOR OPERATION: CALLS ONLY	DETECTOR OPERATION: EXTENDS ONLY	PHASE CALLED	PHASE EXTENDED	DETECTOR DISCONNECT PHASE	CALLING DELAY	EXTENSION STRETCH	SIZE	NUMBER OF TURNS
11	1	X			1	1				6X20	3
12	1	X			1	1				6X20	3
21	2	X			2	2				6X28	3
41	3			X		4			X	6X14	4
42	4	X			4	4		X		6X20	3
43	4	X			4	4		X		6X20	3
44	5	X			4	4				6X20	3
45	5	X			4	4				6X20	3
46	6	X			4	4				6X20	3
47	6	X			4	4				6X20	3
51	7	X			5	5				6X20	3
52	7	X			5	5				6X20	3
61	8	X			6	6				6X28	3
81	9			X		8			X	6X18	3
82	10	X			8	8		X		6X20	3
83	10	X			8	8		X		6X20	3
84	11	X			8	8		X		6X20	3
85	11	X			8	8		X		6X20	3

CONTROLLER LOGIC

PHASE NUMBER	PHASE LOCKING	DUAL ENTRY W / Ø	PHASE RECALL	PHASE ACTIVE
1		6		X
2	X	6	MIN.	X
3				
4		8		X
5		2		X
6	X	2	MIN.	X
7				
8		4		X

OVERLAPS

O.L. "A" =
O.L. "B" =
O.L. "C" =
O.L. "D" =

N

TYPE OF INTERCONNECT	
NONE	
TBC	
CLOSED LOOP	X
HARDWIRE	
TONE (FREQ)	
FIBER OPTIC	

TYPE OF PRE-EMPT	
NONE	X
RAILROAD	
EMERGENCY VEHICLE	

TYPE OF LIGHTING	
NONE	
IN TRAFFIC CONTROL CABINET	X
IN SEPARATE CONTROL CABINET	

GENERAL NOTES:

1. ANY ACTUATED PHASE FOR WHICH THERE IS NO CALL SHALL BE SKIPPED.
2. WHEN ONE PHASE IS ON ALONE, ANY NONCONFLICTING PHASE MAY START TIMING CONCURRENTLY WITHOUT A CLEARANCE INTERVAL. (SEE CHART 1 AT LEFT.)
3. IF ANY OPPOSING THRU PHASES ARE TIMING CONCURRENTLY, THEY SHALL TERMINATE TOGETHER DUE TO PERMISSIVE LEFT TURN CONFLICT.

STH 181 & CALUMET ROAD
CITY OF MILWAUKEE
MILWAUKEE COUNTY

SIGNAL NO. M 164

CONTROLLER TYPE: EPAC

DATE 7/07

FILE NAME : s:\@sai\051--100\089\099\micros\design\0873\024122_ph.dgn PLOT DATE : 7/30/2007 PLOT BY : $$...plotuser...$$ PLOT NAME : PLOT SCALE : $$.....plotscale.....$$ WISDOT/CADDS SHEET 42

PROJECT ID:	2140-08-73
INTERSECTION:	STH 181 (N 76TH ST.) & CALUMET ROAD

Signal Wire Color Coding	BLK - black	RED - red	GRN - green
	WHT - white	BLU - blue	ORG - orange

CB1 TO	JUMPER	# OF COND.	HEAD NO.	PHASE	SIGNAL INDICATION WIRE COLOR								PED BUTTON	OTHER
					RED	YELLOW	GREEN	<RED	<YELLOW>	<GREEN>	D/WALK	WALK		
SB1		12	16	4	RED	ORG	GRN							
			24	6							BLK	BLU		
			BUTTON	6									WHT/BLK	
SB2		12	1	6	RED	ORG	GRN							
			17	4							BLK	BLU		
			BUTTON	4									WHT/BLK	
SB3		12	10	2	RED	ORG	GRN							
				5					BLK	BLU				
			BUTTON	4									WHT/BLK	
SB4		12	4	6	RED	ORG	GRN							
				1					BLK	BLU				
			7	2	RED/BLK	ORG/BLK				GRN/BLK				
SB5		12	8	2	RED	ORG	GRN							
			18	4							BLK	BLU		
			BUTTON	4									WHT/BLK	
SB6		12	14	4	RED	ORG	GRN							
			19	2							BLK	BLU		
			BUTTON	2									WHT/BLK	
SB7		12	12	8	RED	ORG	GRN							
SB8		12	13	8	RED	ORG	GRN							
			20	2							BLK	BLU		
			BUTTON	2									WHT/BLK	
SB9		12	6	2	RED	ORG	GRN							
			21	8							BLK	BLU		
			BUTTON	8									WHT/BLK	
SB10		12	5	6	RED	ORG	GRN							
				1					BLK	BLU				
			BUTTON	8									WHT/BLK	
SB11		12	2	6	RED	ORG				GRN				
			9	2	RED/BLK	ORG/BLK	GRN/BLK							
				5					BLK/WHT	BLU/BLK				
SB12		12	3	6	RED	ORG	GRN							
			22	8							BLK	BLU		
			BUTTON	8									WHT/BLK	
SB13		12	11	8	RED/BLK	ORG/BLK	GRN/BLK							
			15	4	RED	ORG	GRN							
			23	6							BLK	BLU		
			BUTTON	6									WHT/BLK	

Equipment grounding conductor 10 AWG Green XLP	
From	To
CB1	SB1
SB1	SB2
SB2	SB3
SB3	SB4
SB4	SB5
SB5	SB6
SB6	SB7
SB7	SB8
SB8	SB9
SB9	SB10
SB10	SB11
SB11	SB12
SB12	SB13
SB13	CB1

Pull Box Bonding Jumper 10 AWG Green XLP	
From	To
SB1	PB3
SB2	PB4
SB3	PB6
SB4	PB7
SB5	PB8
SB6	PB9
SB7	PB12
SB8	PB13
SB9	PB14
SB10	PB16
SB11	PB17
SB12	PB18
SB13	PB19
CB1	PB1

Lighting UF 12 AWG w/ground	
From	To
CB1	SB1
SB1	SB3
CB1	SB10
SB10	SB7

*Use the white conductor in the signal cable as the grounded conductor for all traffic signal indications.

*Ensure the grounded conductor in the feeder cable and the pole cables are both 18" longer than the ungrounded conductors.

*At the signal bases, connect one terminal from the pedestrian push buttons to the color indicated in the chart. Connect the other terminal to the grounded conductor.

"Other" column may include shadow box sign

TRAFFIC CONTROL SIGNAL

STH 181 (N 76TH STREET) & CALUMET
CITY OF MILWAUKEE
MILWAUKEE COUNTY

SIGNAL NO. M 164 SCALE 0 20

DISTRICT CONTACT: JAH
DESIGNED BY: STRAND ASSOCIATES INC.

PAGE 4 OF 4

2

LEGEND

- TRAFFIC SIGNAL CONTROLLER AND BASE
- TRAFFIC SIGNAL HEAD, PEDESTAL MOUNTED, TYPE 1 BASE
- (XX) TRAFFIC SIGNAL HEAD, MAST ARM MOUNTED, TYPE 2 BASE
- B PEDESTRIAN HEAD WITH PUSH BUTTON
- LUMINAIRE
- PULL BOX, 24" X 42"
- PULL BOX, 24" X 36"
- PULL BOX, 18" X 24"
- PULL BOX, 12" X 24"

NOTES

1. CONTRACTOR SHALL REMOVE LOOP WIRE FROM ABANDONED LOOPS.

N

BRADLEY ROAD

ABANDON PB18

PB17 PB16 SB3

11+00B'

CB1 SB4 PB2 PB3 SB5

PB1 SB2 SB1

STH 181/ 76TH ST

177+00 178+00 179+00 180+00 181+00 182+00

PB14 PB15 PB6 PB5 PB4

10+00B'

15'

SB6 PB7 PB8 SB7

SB10 PB13 SB9 PB12 SB8

11+00B'

PB11 PB10 PB9 ABANDON

NOTE: GRAY SHADED ITEMS ARE TO REMAIN.
BOLD REPRESENTS ITEMS TO BE REMOVED.

TRAFFIC CONTROL SIGNAL

STH 181 (N 76TH ST) & W. BRADLEY ROAD
CITY OF MILWAUKEE
MILWAUKEE COUNTY

SIGNAL NO. M 112 SCALE 0 20

DISTRICT CONTACT: JAH
DESIGNED BY: STRAND ASSOCIATES INC

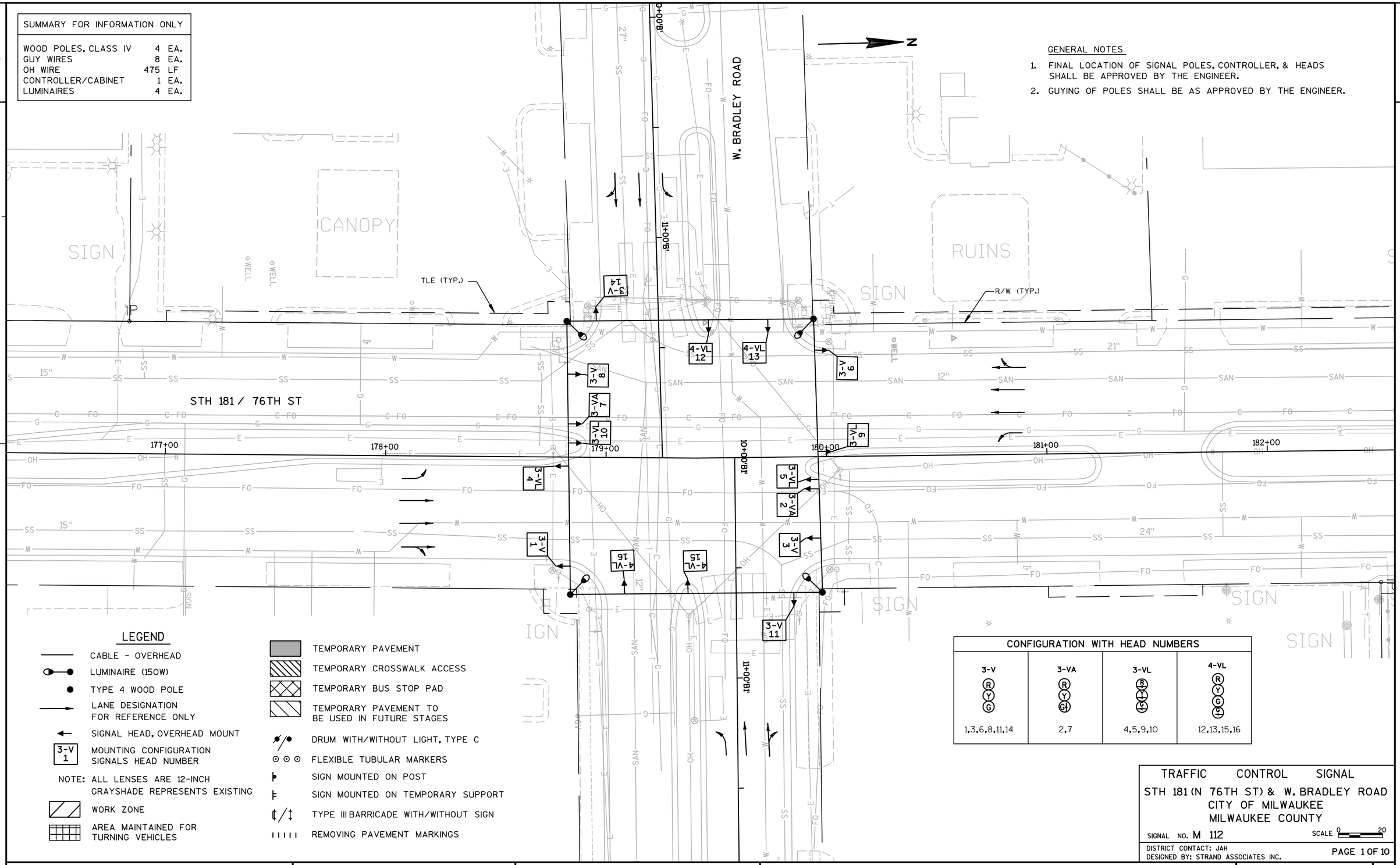
PAGE 1 OF 1

PROJECT NO: 2140-08-73	HWY: STH 181	COUNTY: MILWAUKEE	TRAFFIC SIGNAL REMOVAL PLAN	SHEET 229	E

SUMMARY FOR INFORMATION ONLY	
WOOD POLES, CLASS IV	4 EA.
GUY WIRES	8 EA.
OH WIRE	475 LF
CONTROLLER/CABINET	1 EA.
LUMINAIRES	4 EA.

GENERAL NOTES

1. FINAL LOCATION OF SIGNAL POLES, CONTROLLER, & HEADS SHALL BE APPROVED BY THE ENGINEER.
2. GUYING OF POLES SHALL BE AS APPROVED BY THE ENGINEER.



LEGEND

- CABLE - OVERHEAD
- LUMINAIRE (150W)
- TYPE 4 WOOD POLE
- LANE DESIGNATION FOR REFERENCE ONLY
- SIGNAL HEAD, OVERHEAD MOUNT
- 3-V 1 — MOUNTING CONFIGURATION SIGNALS HEAD NUMBER
- NOTE: ALL LENSES ARE 12-INCH GRAYSHADE REPRESENTS EXISTING
- WORK ZONE
- AREA MAINTAINED FOR TURNING VEHICLES
- TEMPORARY PAVEMENT
- TEMPORARY CROSSWALK ACCESS
- TEMPORARY BUS STOP PAD
- TEMPORARY PAVEMENT TO BE USED IN FUTURE STAGES
- DRUM WITH/WITHOUT LIGHT, TYPE C
- FLEXIBLE TUBULAR MARKERS
- SIGN MOUNTED ON POST
- SIGN MOUNTED ON TEMPORARY SUPPORT
- TYPE III BARRICADE WITH/WITHOUT SIGN
- REMOVING PAVEMENT MARKINGS

CONFIGURATION WITH HEAD NUMBERS			
3-V (R Y G)	3-VA (R Y G)	3-VL (R Y G)	4-VL (R Y G G)
1,3,6,8,11,14	2,7	4,5,9,10	12,13,15,16

TRAFFIC CONTROL SIGNAL

STH 181 (N 76TH ST) & W. BRADLEY ROAD
CITY OF MILWAUKEE
MILWAUKEE COUNTY

SIGNAL NO. M 112 SCALE 0 20

DISTRICT CONTACT: JAH
DESIGNED BY: STRAND ASSOCIATES INC.

PAGE 1 OF 10

PROJECT NO: 2140-08-73	HWY: STH 181	COUNTY: MILWAUKEE	TEMPORARY SIGNAL PLAN - PRE-STAGE 1	SHEET 230	E

2

GENERAL NOTES

1. FINAL LOCATION OF SIGNAL POLES, CONTROLLER, & HEADS SHALL BE APPROVED BY THE ENGINEER.
2. GUYING OF POLES SHALL BE AS APPROVED BY THE ENGINEER.

W. BRADLEY ROAD

STH 181 / 76TH ST

TLE (TYP.)

R/W (TYP.)

CANOPY

SIGN

RUINS

177+00 178+00 179+00 180+00 181+00 182+00

11+00Bl.

10+00Bl.

3-V 14 | 3-V 8 | 5-VA 7 | 5-VL 10 | 4-VL 12 | 4-VL 13 | 3-V 6 | 5-VL 9 | 3-VL 4 | 3-VL 5 | 3-VA 2 | 3-V 1 | 4-VL 16 | 4-VL 15 | 3-V 3 | 3-V 11

LEGEND

- CABLE - OVERHEAD
- LUMINAIRE (150W)
- TYPE 4 WOOD POLE
- LANE DESIGNATION FOR REFERENCE ONLY
- SIGNAL HEAD, OVERHEAD MOUNT
- 3-V 1 — MOUNTING CONFIGURATION SIGNALS HEAD NUMBER
- NOTE: ALL LENSES ARE 12-INCH GRAYSHADE REPRESENTS EXISTING
- WORK ZONE
- AREA MAINTAINED FOR TURNING VEHICLES
- TEMPORARY PAVEMENT
- TEMPORARY CROSSWALK ACCESS
- TEMPORARY BUS STOP PAD
- TEMPORARY PAVEMENT TO BE USED IN FUTURE STAGES
- DRUM WITH/WITHOUT LIGHT, TYPE C
- FLEXIBLE TUBULAR MARKERS
- SIGN MOUNTED ON POST
- SIGN MOUNTED ON TEMPORARY SUPPORT
- TYPE III BARRICADE WITH/WITHOUT SIGN
- REMOVING PAVEMENT MARKINGS

CONFIGURATION WITH HEAD NUMBERS			
3-V (R, Y, G)	3-VA (R, Y, G)	3-VL (R, Y, G)	4-VL (R, Y, G, G)
1,3,6,8,11,14	2,7	4,5,9,10	12,13,15,16

TRAFFIC CONTROL SIGNAL

STH 181 (N 76TH ST) & W. BRADLEY ROAD
CITY OF MILWAUKEE
MILWAUKEE COUNTY

SIGNAL NO. M 112 SCALE 0 20

DISTRICT CONTACT: JAH
DESIGNED BY: STRAND ASSOCIATES INC.

PAGE 2 OF 10

PROJECT NO: 2140-08-73	HWY: STH 181	COUNTY: MILWAUKEE	TEMPORARY SIGNAL PLAN - STAGE 1	SHEET 231	E

2

GENERAL NOTES

1. FINAL LOCATION OF SIGNAL POLES, CONTROLLER, & HEADS SHALL BE APPROVED BY THE ENGINEER.
2. GUYING OF POLES SHALL BE AS APPROVED BY THE ENGINEER.

N

W. BRADLEY ROAD

STH 181 / 76TH ST

TLE (TYP.)

R/W (TYP.)

SIGN

CANOPY

RUINS

IP

177+00 178+00 179+00 180+00 181+00 182+00

18+00

19+00

3-V 1, 3-VL 4, 3-VA 7, 3-V 8, 3-VL 10, 4-VL 12, 4-VL 13, 3-V 14, 3-V 6, 3-VL 5, 3-VL 9, 3-VA 2, 3-V 3, 4-VL 15, 4-VL 16, 3-V 11

LEGEND

- CABLE - OVERHEAD
- LUMINAIRE (150W)
- TYPE 4 WOOD POLE
- LANE DESIGNATION FOR REFERENCE ONLY
- SIGNAL HEAD, OVERHEAD MOUNT
- 3-V 1 MOUNTING CONFIGURATION SIGNALS HEAD NUMBER
- NOTE: ALL LENSES ARE 12-INCH GRAYSHADE REPRESENTS EXISTING
- WORK ZONE
- AREA MAINTAINED FOR TURNING VEHICLES
- TEMPORARY PAVEMENT
- TEMPORARY CROSSWALK ACCESS
- TEMPORARY BUS STOP PAD
- TEMPORARY PAVEMENT TO BE USED IN FUTURE STAGES
- DRUM WITH/WITHOUT LIGHT, TYPE C
- FLEXIBLE TUBULAR MARKERS
- SIGN MOUNTED ON POST
- SIGN MOUNTED ON TEMPORARY SUPPORT
- TYPE III BARRICADE WITH/WITHOUT SIGN
- REMOVING PAVEMENT MARKINGS

CONFIGURATION WITH HEAD NUMBERS			
3-V (R Y G)	3-VA (R Y G)	3-VL (R Y G)	4-VL (R Y G G)
1,3,6,8,11,14	2,7	4,5,9,10	12,13,15,16

TRAFFIC CONTROL SIGNAL

STH 181 (N 76TH ST) & W. BRADLEY ROAD
CITY OF MILWAUKEE
MILWAUKEE COUNTY

SIGNAL NO. M 112 SCALE 0 20

DISTRICT CONTACT: JAH
DESIGNED BY: STRAND ASSOCIATES INC.

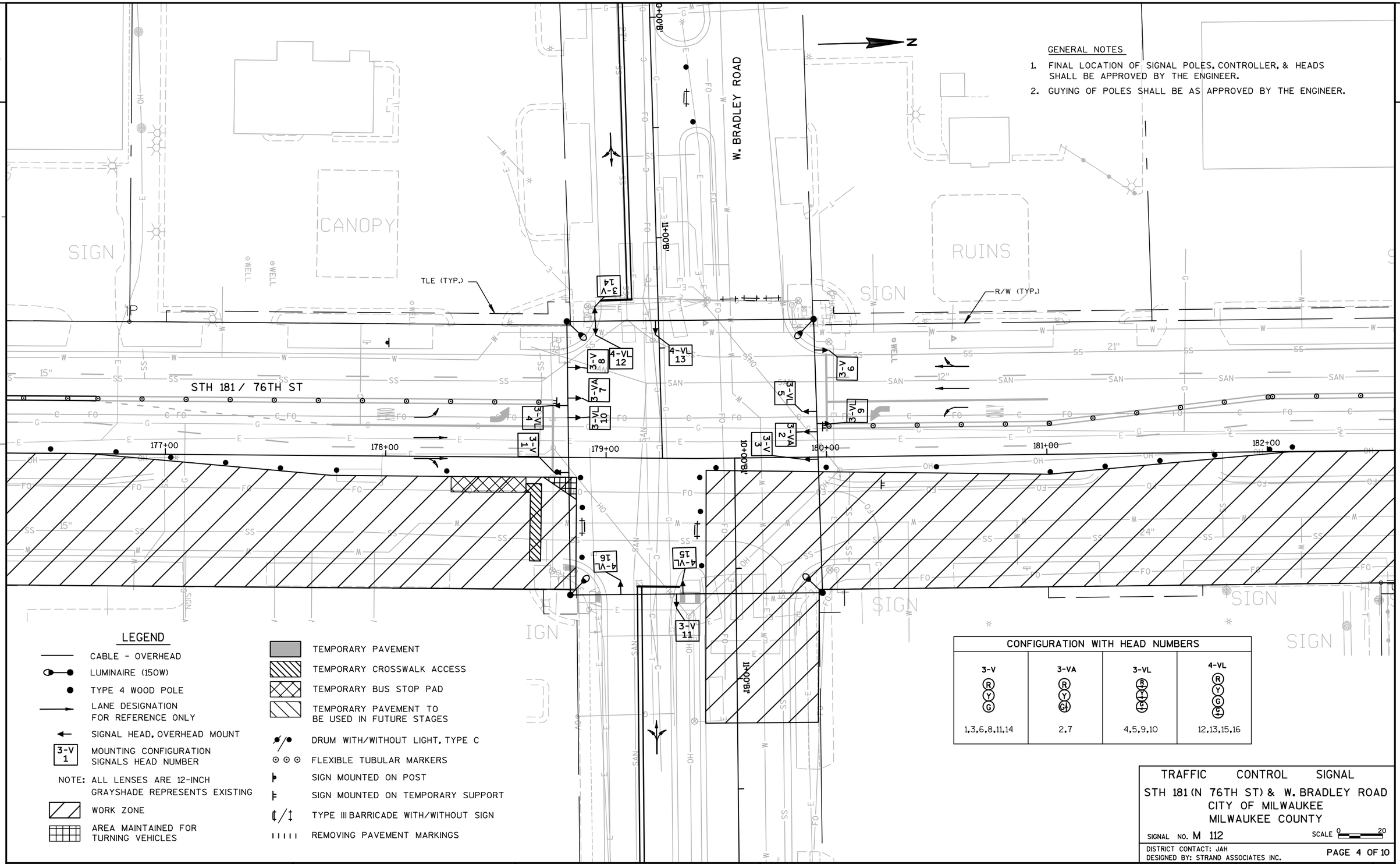
PAGE 3 OF 10

PROJECT NO: 2140-08-73	HWY: STH 181	COUNTY: MILWAUKEE	TEMPORARY SIGNAL PLAN - STAGE 2 PHASE I	SHEET 232	E

2

GENERAL NOTES

1. FINAL LOCATION OF SIGNAL POLES, CONTROLLER, & HEADS SHALL BE APPROVED BY THE ENGINEER.
2. GUYING OF POLES SHALL BE AS APPROVED BY THE ENGINEER.



LEGEND

- CABLE - OVERHEAD
- LUMINAIRE (150W)
- TYPE 4 WOOD POLE
- LANE DESIGNATION FOR REFERENCE ONLY
- SIGNAL HEAD, OVERHEAD MOUNT
- 3-V 1 — MOUNTING CONFIGURATION SIGNALS HEAD NUMBER
- NOTE: ALL LENSES ARE 12-INCH GRAYSHADE REPRESENTS EXISTING
- WORK ZONE
- AREA MAINTAINED FOR TURNING VEHICLES
- TEMPORARY PAVEMENT
- TEMPORARY CROSSWALK ACCESS
- TEMPORARY BUS STOP PAD
- TEMPORARY PAVEMENT TO BE USED IN FUTURE STAGES
- DRUM WITH/WITHOUT LIGHT, TYPE C
- FLEXIBLE TUBULAR MARKERS
- SIGN MOUNTED ON POST
- SIGN MOUNTED ON TEMPORARY SUPPORT
- TYPE III BARRICADE WITH/WITHOUT SIGN
- REMOVING PAVEMENT MARKINGS

CONFIGURATION WITH HEAD NUMBERS			
3-V (R, Y, G)	3-VA (R, Y, G)	3-VL (R, Y, G, G)	4-VL (R, Y, G, G)
1,3,6,8,11,14	2,7	4,5,9,10	12,13,15,16

TRAFFIC CONTROL SIGNAL

STH 181 (N 76TH ST) & W. BRADLEY ROAD
CITY OF MILWAUKEE
MILWAUKEE COUNTY

SIGNAL NO. M 112 SCALE 0 20

DISTRICT CONTACT: JAH
DESIGNED BY: STRAND ASSOCIATES INC.

PAGE 4 OF 10

PROJECT NO: 2140-08-73	HWY: STH 181	COUNTY: MILWAUKEE	TEMPORARY SIGNAL PLAN - STAGE 2 PHASE II	SHEET 233	E

2

GENERAL NOTES

1. FINAL LOCATION OF SIGNAL POLES, CONTROLLER, & HEADS SHALL BE APPROVED BY THE ENGINEER.
2. GUYING OF POLES SHALL BE AS APPROVED BY THE ENGINEER.

N

W. BRADLEY ROAD

STH 181 / 76TH ST

CANOPY

SIGN

RUINS

TLE (TYP.)

R/W (TYP.)

3-V 14
4-VL 12
4-VL 13
3-V 8
3-VA 7
3-VL 10
3-VL 4
3-V 1
4-VL 16
4-VL 15
3-V 11
3-V 6
3-VL 9
3-VL 5
3-VA 2
3-V 3

177+00 178+00 179+00 180+00 181+00 182+00

18+00 Bl.

11+00 Bl.

LEGEND

- CABLE - OVERHEAD
- LUMINAIRE (150W)
- TYPE 4 WOOD POLE
- LANE DESIGNATION FOR REFERENCE ONLY
- SIGNAL HEAD, OVERHEAD MOUNT
- 3-V 1 MOUNTING CONFIGURATION SIGNALS HEAD NUMBER
- NOTE: ALL LENSES ARE 12-INCH GRAYSHADE REPRESENTS EXISTING
- WORK ZONE
- AREA MAINTAINED FOR TURNING VEHICLES
- TEMPORARY PAVEMENT
- TEMPORARY CROSSWALK ACCESS
- TEMPORARY BUS STOP PAD
- TEMPORARY PAVEMENT TO BE USED IN FUTURE STAGES
- DRUM WITH/WITHOUT LIGHT, TYPE C
- FLEXIBLE TUBULAR MARKERS
- SIGN MOUNTED ON POST
- SIGN MOUNTED ON TEMPORARY SUPPORT
- TYPE III BARRICADE WITH/WITHOUT SIGN
- REMOVING PAVEMENT MARKINGS

CONFIGURATION WITH HEAD NUMBERS

3-V	3-VA	3-VL	4-VL
1,3,6,8,11,14	2,7	4,5,9,10	12,13,15,16

TRAFFIC CONTROL SIGNAL

STH 181 (N 76TH ST) & W. BRADLEY ROAD
CITY OF MILWAUKEE
MILWAUKEE COUNTY

SIGNAL NO. M 112 SCALE 0 20

DISTRICT CONTACT: JAH
DESIGNED BY: STRAND ASSOCIATES INC.

PAGE 5 OF 10

PROJECT NO: 2140-08-73	HWY: STH 181	COUNTY: MILWAUKEE	TEMPORARY SIGNAL PLAN - STAGE 3 PHASE I	SHEET 234 E

2

2

N

W. BRADLEY ROAD

STH 181 / 76TH ST

CANOPY

SIGN

RUINS

TLE (TYP.)

R/W (TYP.)

177+00 178+00 179+00 180+00 181+00 182+00

10+00 BL 11+00 BL 12+00 BL

3-V 14 4-VL 12 4-VL 13 3-V 8 3-V 6 3-VA 7 3-VL 10 3-VL 4 3-V 1 3-VL 5 3-VA 2 3-V 3 4-VL 16 4-VL 15 3-V 11 3-VL 9

GENERAL NOTES

1. FINAL LOCATION OF SIGNAL POLES, CONTROLLER, & HEADS SHALL BE APPROVED BY THE ENGINEER.
2. GUYING OF POLES SHALL BE AS APPROVED BY THE ENGINEER.

LEGEND

- CABLE - OVERHEAD
- LUMINAIRE (150W)
- TYPE 4 WOOD POLE
- LANE DESIGNATION FOR REFERENCE ONLY
- SIGNAL HEAD, OVERHEAD MOUNT
- 3-V 1 — MOUNTING CONFIGURATION SIGNALS HEAD NUMBER
- NOTE: ALL LENSES ARE 12-INCH GRAYSHADE REPRESENTS EXISTING
- WORK ZONE
- AREA MAINTAINED FOR TURNING VEHICLES
- TEMPORARY PAVEMENT
- TEMPORARY CROSSWALK ACCESS
- TEMPORARY BUS STOP PAD
- TEMPORARY PAVEMENT TO BE USED IN FUTURE STAGES
- DRUM WITH/WITHOUT LIGHT, TYPE C
- FLEXIBLE TUBULAR MARKERS
- SIGN MOUNTED ON POST
- SIGN MOUNTED ON TEMPORARY SUPPORT
- TYPE III BARRICADE WITH/WITHOUT SIGN
- REMOVING PAVEMENT MARKINGS

CONFIGURATION WITH HEAD NUMBERS

3-V	3-VA	3-VL	4-VL
(R)(Y)(G)	(R)(Y)(G)	(R)(Y)(G)	(R)(Y)(G)(G)
1,3,6,8,11,14	2,7	4,5,9,10	12,13,15,16

TRAFFIC CONTROL SIGNAL

STH 181 (N 76TH ST) & W. BRADLEY ROAD
CITY OF MILWAUKEE
MILWAUKEE COUNTY

SIGNAL NO. M 112 SCALE 0 20

DISTRICT CONTACT: JAH
DESIGNED BY: STRAND ASSOCIATES INC.

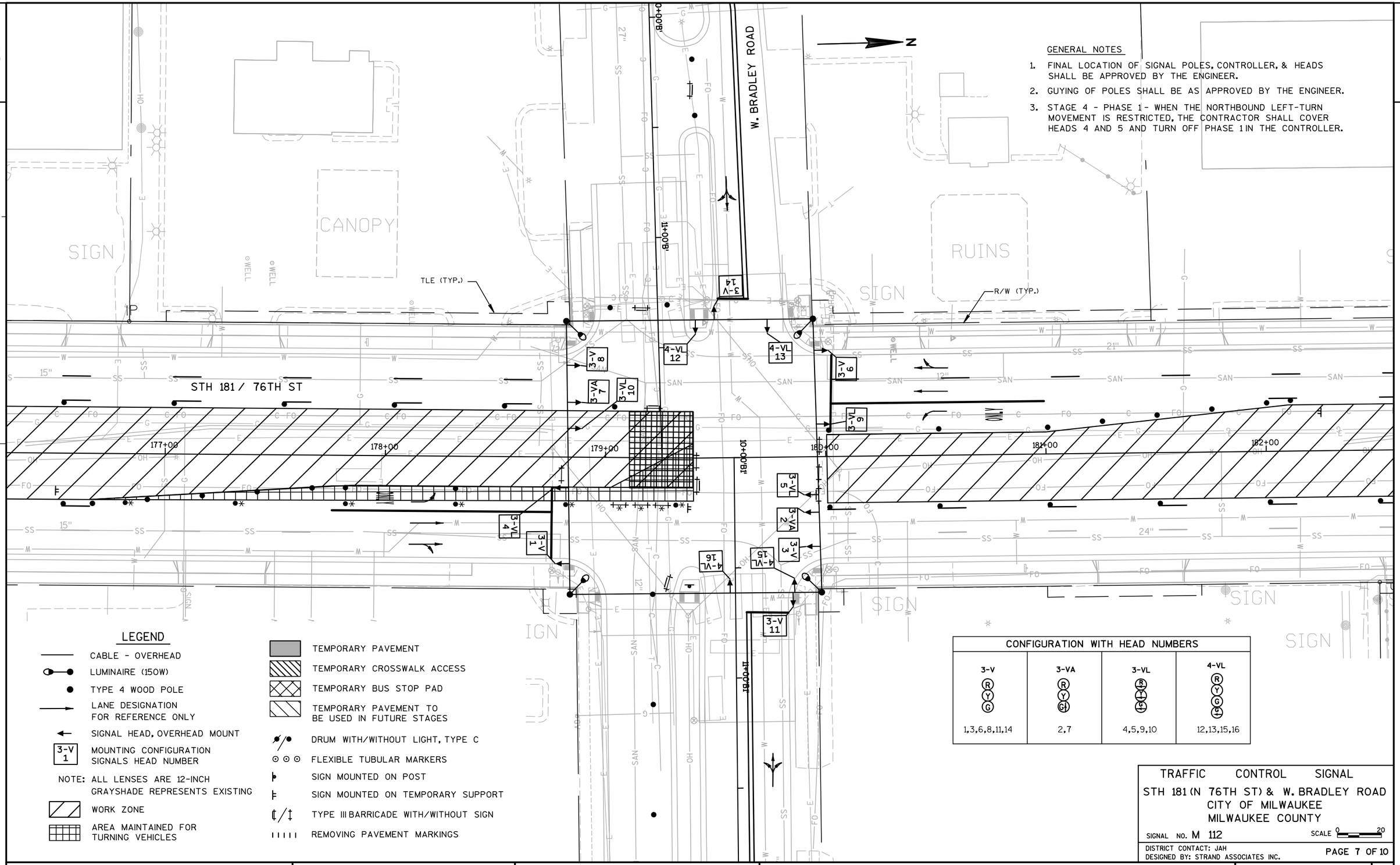
PAGE 6 OF 10

PROJECT NO: 2140-08-73	HWY: STH 181	COUNTY: MILWAUKEE	TEMPORARY SIGNAL PLAN - STAGE 3 PHASE II	SHEET 235	E

2

GENERAL NOTES

1. FINAL LOCATION OF SIGNAL POLES, CONTROLLER, & HEADS SHALL BE APPROVED BY THE ENGINEER.
2. GUYING OF POLES SHALL BE AS APPROVED BY THE ENGINEER.
3. STAGE 4 - PHASE 1- WHEN THE NORTHBOUND LEFT-TURN MOVEMENT IS RESTRICTED, THE CONTRACTOR SHALL COVER HEADS 4 AND 5 AND TURN OFF PHASE 1 IN THE CONTROLLER.



LEGEND

- CABLE - OVERHEAD
- LUMINAIRE (150W)
- TYPE 4 WOOD POLE
- LANE DESIGNATION FOR REFERENCE ONLY
- SIGNAL HEAD, OVERHEAD MOUNT
- 3-V 1 — MOUNTING CONFIGURATION SIGNALS HEAD NUMBER
- NOTE: ALL LENSES ARE 12-INCH GRAYSHADE REPRESENTS EXISTING
- WORK ZONE
- AREA MAINTAINED FOR TURNING VEHICLES
- TEMPORARY PAVEMENT
- TEMPORARY CROSSWALK ACCESS
- TEMPORARY BUS STOP PAD
- TEMPORARY PAVEMENT TO BE USED IN FUTURE STAGES
- DRUM WITH/WITHOUT LIGHT, TYPE C
- FLEXIBLE TUBULAR MARKERS
- SIGN MOUNTED ON POST
- SIGN MOUNTED ON TEMPORARY SUPPORT
- TYPE III BARRICADE WITH/WITHOUT SIGN
- REMOVING PAVEMENT MARKINGS

CONFIGURATION WITH HEAD NUMBERS			
3-V (R, Y, G)	3-VA (R, Y, G)	3-VL (R, Y, G)	4-VL (R, Y, G, G)
1,3,6,8,11,14	2,7	4,5,9,10	12,13,15,16

TRAFFIC CONTROL SIGNAL

STH 181 (N 76TH ST) & W. BRADLEY ROAD
CITY OF MILWAUKEE
MILWAUKEE COUNTY

SIGNAL NO. M 112 SCALE 0 20

DISTRICT CONTACT: JAH
DESIGNED BY: STRAND ASSOCIATES INC.

PAGE 7 OF 10

PROJECT NO: 2140-08-73	HWY: STH 181	COUNTY: MILWAUKEE	TEMPORARY SIGNAL PLAN - STAGE 4 PHASE 1	SHEET 236	E

2

GENERAL NOTES

1. FINAL LOCATION OF SIGNAL POLES, CONTROLLER, & HEADS SHALL BE APPROVED BY THE ENGINEER.
2. GUYING OF POLES SHALL BE AS APPROVED BY THE ENGINEER.

W. BRADLEY ROAD

STH 181 / 76TH ST

TLE (TYP.)

R/W (TYP.)

CANOPY

SIGN

RUINS

177+00 178+00 179+00 180+00 181+00 182+00

11+00 Bl

18+00 Bl

3-V 14 | 4-VL 12 | 4-VL 13 | 3-V 8 | 3-VA 7 | 3-VL 10 | 3-V 6 | 3-VL 9 | 3-VL 4 | 3-V 1 | 4-VL 16 | 4-VL 15 | 3-VL 5 | 3-VA 2 | 3-V 3 | 3-V 11

LEGEND

- CABLE - OVERHEAD
- LUMINAIRE (150W)
- TYPE 4 WOOD POLE
- LANE DESIGNATION FOR REFERENCE ONLY
- SIGNAL HEAD, OVERHEAD MOUNT
- 3-V 1 — MOUNTING CONFIGURATION SIGNALS HEAD NUMBER
- NOTE: ALL LENSES ARE 12-INCH GRAYSHADE REPRESENTS EXISTING
- WORK ZONE
- AREA MAINTAINED FOR TURNING VEHICLES
- TEMPORARY PAVEMENT
- TEMPORARY CROSSWALK ACCESS
- TEMPORARY BUS STOP PAD
- TEMPORARY PAVEMENT TO BE USED IN FUTURE STAGES
- DRUM WITH/WITHOUT LIGHT, TYPE C
- FLEXIBLE TUBULAR MARKERS
- SIGN MOUNTED ON POST
- SIGN MOUNTED ON TEMPORARY SUPPORT
- TYPE III BARRICADE WITH/WITHOUT SIGN
- REMOVING PAVEMENT MARKINGS

CONFIGURATION WITH HEAD NUMBERS			
3-V (R Y G)	3-VA (R Y G)	3-VL (R Y G)	4-VL (R Y G G)
1,3,6,8,11,14	2,7	4,5,9,10	12,13,15,16

TRAFFIC CONTROL SIGNAL

STH 181 (N 76TH ST) & W. BRADLEY ROAD
CITY OF MILWAUKEE
MILWAUKEE COUNTY

SIGNAL NO. M 112 SCALE 0 20

DISTRICT CONTACT: JAH
DESIGNED BY: STRAND ASSOCIATES INC.

PROJECT NO: 2140-08-73	HWY: STH 181	COUNTY: MILWAUKEE	TEMPORARY SIGNAL PLAN - STAGE 4 PHASE II	SHEET 237	E

FILE NAME : s:\@sai\051--100\089\099\micros\design\0873\024217_sp.dgn PLOT DATE : 7/30/2007 PLOT BY : $$...plotuser...$$ PLOT NAME : PLOT SCALE : $$.....plotscale.....$$ WISDOT/CADDS SHEET 42

2

2

W. BRADLEY ROAD

STH 181 / 76TH ST

GENERAL NOTES

1. FINAL LOCATION OF SIGNAL POLES, CONTROLLER, & HEADS SHALL BE APPROVED BY THE ENGINEER.
2. GUYING OF POLES SHALL BE AS APPROVED BY THE ENGINEER.

TLE (TYP.)

R/W (TYP.)

SIGN

CANOPY

RUINS

LEGEND

- CABLE - OVERHEAD
- LUMINAIRE (150W)
- TYPE 4 WOOD POLE
- LANE DESIGNATION FOR REFERENCE ONLY
- SIGNAL HEAD, OVERHEAD MOUNT
- 3-V 1 — MOUNTING CONFIGURATION SIGNALS HEAD NUMBER
- NOTE: ALL LENSES ARE 12-INCH GRAYSHADE REPRESENTS EXISTING
- WORK ZONE
- AREA MAINTAINED FOR TURNING VEHICLES
- TEMPORARY PAVEMENT
- TEMPORARY CROSSWALK ACCESS
- TEMPORARY BUS STOP PAD
- TEMPORARY PAVEMENT TO BE USED IN FUTURE STAGES
- DRUM WITH/WITHOUT LIGHT, TYPE C
- FLEXIBLE TUBULAR MARKERS
- SIGN MOUNTED ON POST
- SIGN MOUNTED ON TEMPORARY SUPPORT
- TYPE III BARRICADE WITH/WITHOUT SIGN
- REMOVING PAVEMENT MARKINGS

CONFIGURATION WITH HEAD NUMBERS			
3-V (R Y G)	3-VA (R Y G)	3-VL (R Y G)	4-VL (R Y G G)
1,3,6,8,11,14	2,7	4,5,9,10	12,13,15,16

TRAFFIC CONTROL SIGNAL

STH 181 (N 76TH ST) & W. BRADLEY ROAD
CITY OF MILWAUKEE
MILWAUKEE COUNTY

SIGNAL NO. M 112 SCALE 0 20

DISTRICT CONTACT: JAH
DESIGNED BY: STRAND ASSOCIATES INC.

PAGE 9 OF 10

PROJECT NO: 2140-08-73	HWY: STH 181	COUNTY: MILWAUKEE	TEMPORARY SIGNAL PLAN - STAGE 4 PHASE III	SHEET	E

FILE NAME : s:\@sai\051--100\089\099\micros\design\0873\024218_sp.dgn PLOT DATE : 7/30/2007 PLOT BY : $$...plotuser...$$ PLOT NAME : PLOT SCALE : $$.....plotscale.....$$ WISDOT/CADDS SHEET 42

SEQUENCE OF OPERATION

RING 1

	HEAD NUMBERS	Ø1 R/W	Ø1 ✳✳	Ø1 CLEAR TO	Ø2 R/W	Ø2 ✳✳	Ø2 CLEAR TO	Ø3 R/W	Ø3 ✳✳	Ø3 CLEAR TO	Ø4 R/W	Ø4 ✳✳	Ø4 CLEAR TO	FLASH
Ø1	4,5	G ←	Y ←	R ←	R ←	R ←	R ←	R ←	R ←	R ←	R ←	R ←	R ←	R ←
Ø2	6,7,8	R	R	R	G,G↓	Y	R	R	R	R	R	R	R	R
Ø3	14,15,16	R	R	R	R	R	R	G,G ←	Y	R	R	R	R	R
Ø4	11,12,13	R	R	R	R	R	R	R	R	R	G,G ←	Y	R	R
Ø5	9,10	R ←	R ←	R ←	R ←	R ←	R ←	R ←	R ←	R ←	R ←	R ←	R ←	R ←
Ø6	1,2,3	R	R	R	R	R	R	R	R	R	R	R	R	R
Ø7														
Ø8														
Ø2P														
Ø4P														
Ø6P														
Ø8P														

RING 2

	HEAD NUMBERS	Ø5 R/W	Ø5 ✳✳	Ø5 CLEAR TO	Ø6 R/W	Ø6 ✳✳	Ø6 CLEAR TO	Ø7 R/W	Ø7 ✳✳	Ø7 CLEAR TO	Ø8 R/W	Ø8 ✳✳	Ø8 CLEAR TO
Ø1	4,5	R ←	R ←	R ←	R ←	R ←	R ←						
Ø2	6,7,8	R	R	R	R	R	R						
Ø3	14,15,16	R	R	R	R	R	R						
Ø4	11,12,13	R	R	R	R	R	R						
Ø5	9,10	G ←	Y ←	R ←	R ←	R ←	R ←						
Ø6	1,2,3	R	R	R	G,G↓	Y	R						
Ø7													
Ø8													
Ø2P													
Ø4P													
Ø6P													
Ø8P													

NOT USED

NOT USED

BARRIER

** CLEARANCE TO A PHASE IN CONFLICT WITH THIS PHASE ON (SEE CHART 1)

N

CONTROLLER LOGIC

PHASE NUMBER	PHASE LOCKING	DUAL ENTRY W / Ø	PHASE RECALL	PHASE ACTIVE
1			MAX	X
2			MAX	X
3			MAX	X
4			MAX	X
5			MAX	X
6			MAX	X
7				
8				

OVERLAPS

O.L. "A" =
O.L. "B" =
O.L. "C" =
O.L. "D" =

SIGNAL PHASING NOTES

1. STAGE 4 PHASE 1 - WHEN THE NORTHBOUND LEFT-TURN MOVEMENT IS RESTRICTED, THE CONTRACTOR SHALL COVER HEADS 4 & 5 AND TURN OFF PHASE 1 IN THE CONTROLLER.

TYPE OF INTERCONNECT	
NONE	
TBC	X
CLOSED LOOP	
HARDWIRE	
TONE (FREQ)	
FIBER OPTIC	

TYPE OF PRE-EMPT	
NONE	X
RAILROAD	
EMERGENCY VEHICLE	

TYPE OF LIGHTING	
NONE	
IN TRAFFIC CONTROL CABINET	X
IN SEPARATE CONTROL CABINET	

GENERAL NOTES:

1. ANY ACTUATED PHASE FOR WHICH THERE IS NO CALL WILL BE SKIPPED.
2. WHEN ONE PHASE IS ON ALONE, ANY NONCONFLICTING PHASE MAY START TIMING CONCURRENTLY WITHOUT A CLEARANCE INTERVAL. (SEE CHART 1 BELOW.)

CHART 1

PHASE ON	NONCONFLICTING PHASE ALLOWED TO TIME CONCURRENTLY	PHASES IN CONFLICT WITH PHASE ON
Ø1	5 OR 6	2,3,4
Ø2	5 OR 6	1,3,4
Ø3	NONE	1,2,4,5,6
Ø4	NONE	1,2,3,5,6
Ø5	1 OR 2	3,4,6
Ø6	1 OR 2	3,4,5
Ø7		
Ø8		

STH 181 & W. BRADLEY ROAD
CITY OF MILWAUKEE
MILWAUKEE COUNTY

SIGNAL NO. M 112

CONTROLLER TYPE:

DATE 7/07

PAGE NO. 10 OF 10

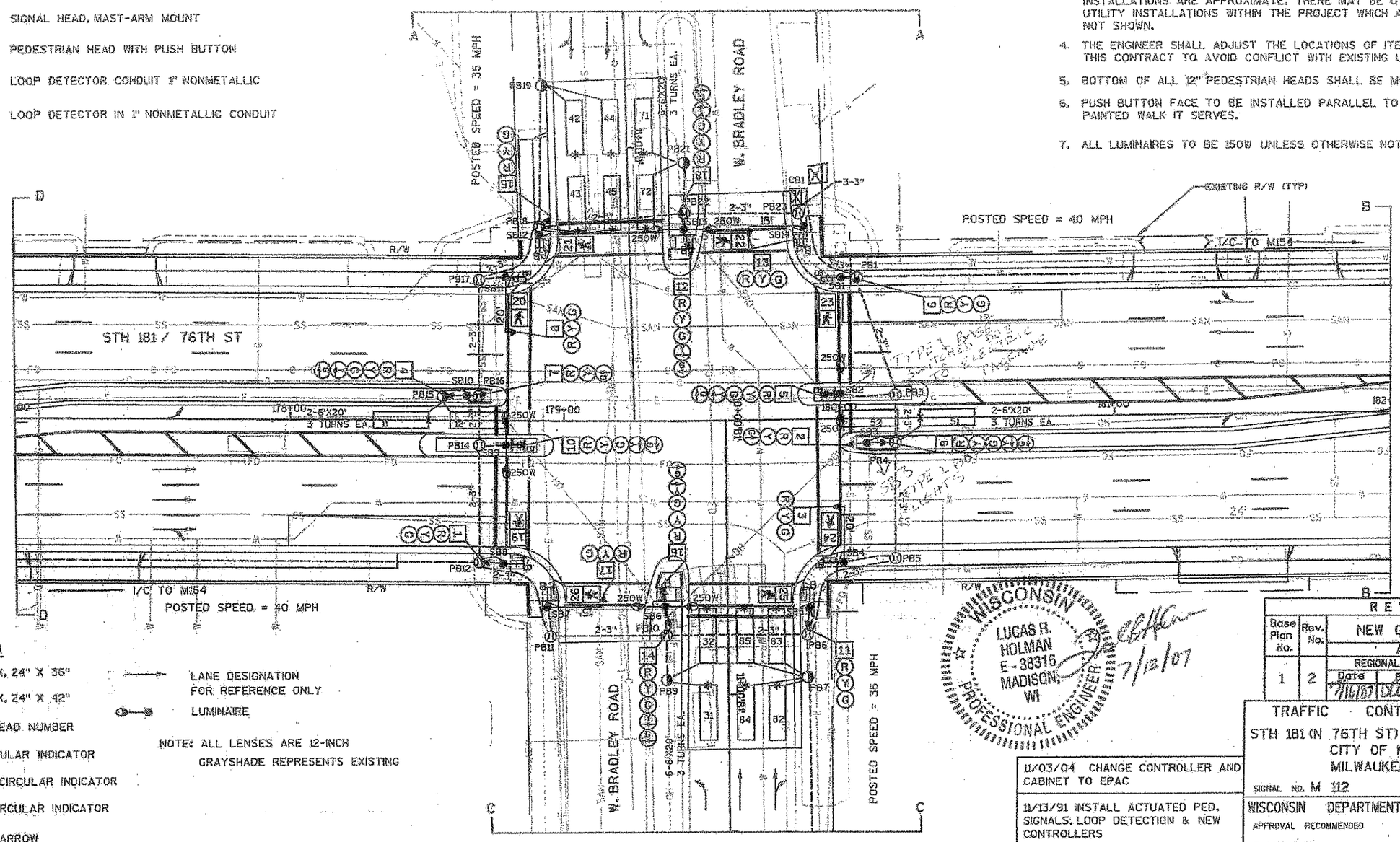
PROJECT NO: 2140-08-73	HWY: STH 181	COUNTY: MILWAUKEE	TEMPORARY SEQUENCE OF OPERATIONS - ALL STAGES	SHEET NO: 239	E

LEGEND

- CONTROL CABINET
- NONMETALLIC CONDUIT 2", UNLESS OTHERWISE NOTED
- SIGNAL HEAD, PEDESTAL MOUNT
- (XX) SIGNAL HEAD, MAST-ARM MOUNT
- PEDESTRIAN HEAD WITH PUSH BUTTON
- LOOP DETECTOR CONDUIT 3" NONMETALLIC
- LOOP DETECTOR IN 1" NONMETALLIC CONDUIT

CONSTRUCTION NOTES:

1. * LOCATION IS TO FRONT CENTER OF DETECTOR LOOP.
2. THE CONTRACTOR SHALL HAVE THE PULL BOXES AND CONDUIT RUNS INSPECTED 3 WORKING DAYS PRIOR TO PLACING SIGNAL CABLE INTO SYSTEM. (414) 266-1170.
3. THE LOCATIONS OF EXISTING AND PROPOSED UTILITY INSTALLATIONS ARE APPROXIMATE. THERE MAY BE OTHER UTILITY INSTALLATIONS WITHIN THE PROJECT WHICH ARE NOT SHOWN.
4. THE ENGINEER SHALL ADJUST THE LOCATIONS OF ITEMS UNDER THIS CONTRACT TO AVOID CONFLICT WITH EXISTING UTILITY FACILITIES.
5. BOTTOM OF ALL 12" PEDESTRIAN HEADS SHALL BE MOUNTED AT 10'.
6. PUSH BUTTON FACE TO BE INSTALLED PARALLEL TO THE PAINTED WALK IT SERVES.
7. ALL LUMINAIRES TO BE 150W UNLESS OTHERWISE NOTED.



LEGEND (CONT'D)

- PULL BOX, 24" X 36"
- PULL BOX, 24" X 42"
- SIGNAL HEAD NUMBER
- R RED CIRCULAR INDICATOR
- Y YELLOW CIRCULAR INDICATOR
- G GREEN CIRCULAR INDICATOR
- Y YELLOW ARROW
- G GREEN ARROW
- DON'T WALK INDICATOR 12"
  WALK INDICATOR 12"
- LANE DESIGNATION FOR REFERENCE ONLY
- LUMINAIRE

NOTE: ALL LENSES ARE 12-INCH
GRAYSHADE REPRESENTS EXISTING

WISCONSIN
LUCAS R. HOLMAN
E-38316
MADISON, WI
PROFESSIONAL ENGINEER
7/12/07

REVISIONS						
Base Plan No.	Rev. No.	NEW GEOMETRICS				Cont. Type
		APPROVALS				
		REGIONAL		CENTRAL OFFICE		
		Date	By	Date	By	
1	2	7/6/07	LLL			EPAC

11/03/04 CHANGE CONTROLLER AND CABINET TO EPAC

11/13/91 INSTALL ACTUATED PED. SIGNALS; LOOP DETECTION & NEW CONTROLLERS

CHANGED SIGNAL HEAD DESIGNATION

6/05/71 DATE OF INITIAL INSTALLLATION

TRAFFIC CONTROL SIGNAL

STH 181 (N 76TH ST) & W. BRADLEY ROAD
CITY OF MILWAUKEE
MILWAUKEE COUNTY

SIGNAL NO. M 112 SCALE 0 20

WISCONSIN DEPARTMENT OF TRANSPORTATION

APPROVAL RECOMMENDED
Date 5-4-71 ROBERT MOE, DISTRICT TRAFFIC ENGINEER

APPROVED
Date 5-20-71 WAYNE VOLK, STATE TRAFFIC ENGINEER

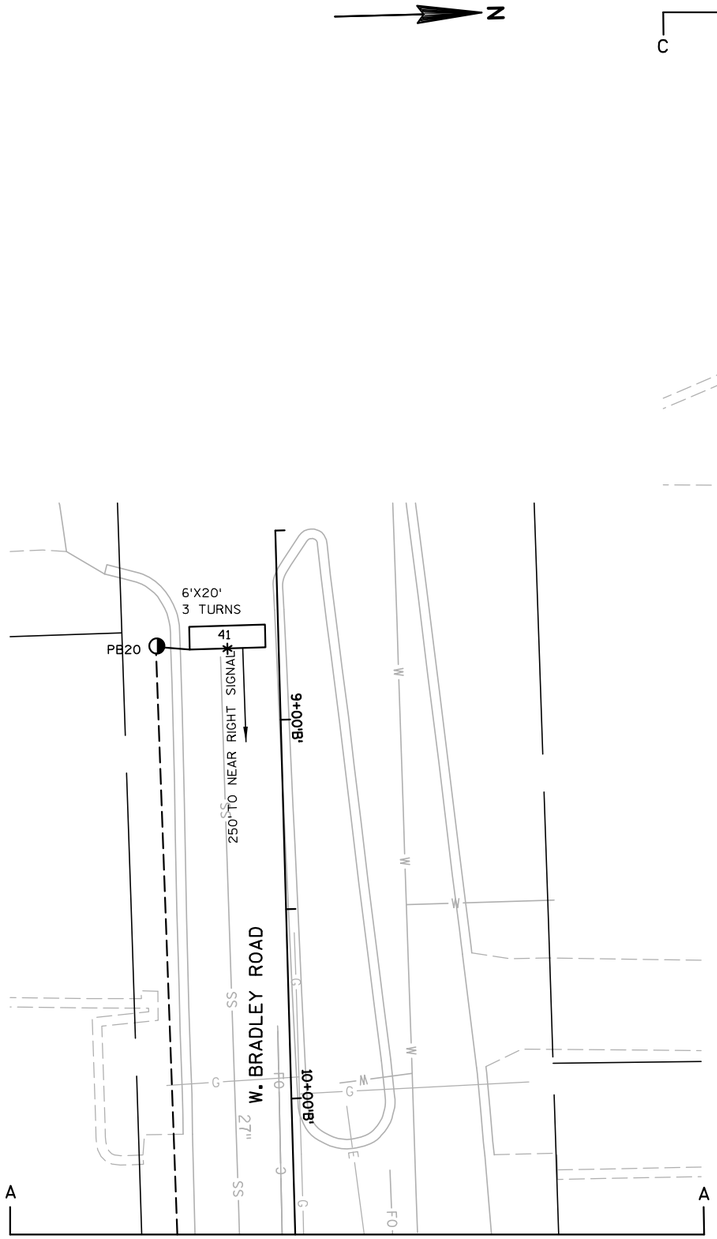
DISTRICT CONTACT: JAH
DESIGNED BY: STRAND ASSOCIATES, INC.

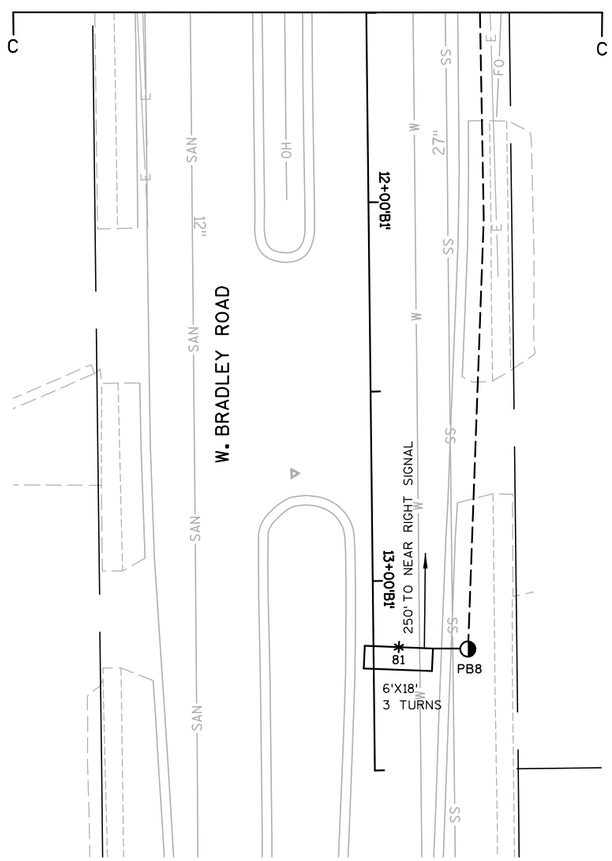
PAGE 10F 4

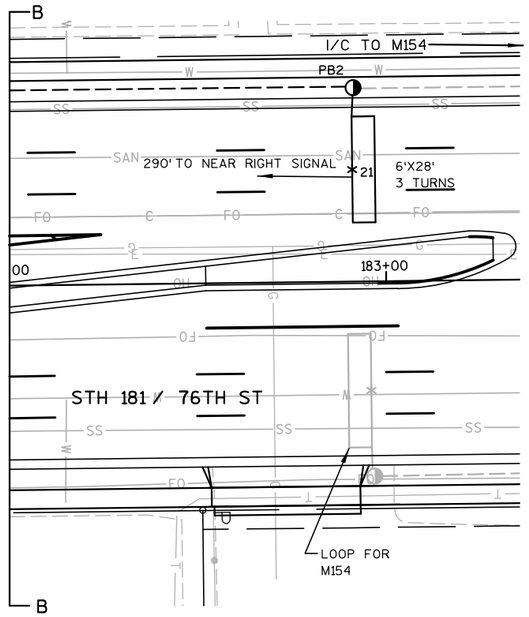
PROJECT NO: 2140-08-73	HWY: STH 181	COUNTY: MILWAUKEE	TRAFFIC SIGNAL PLAN	SHEET 240 E

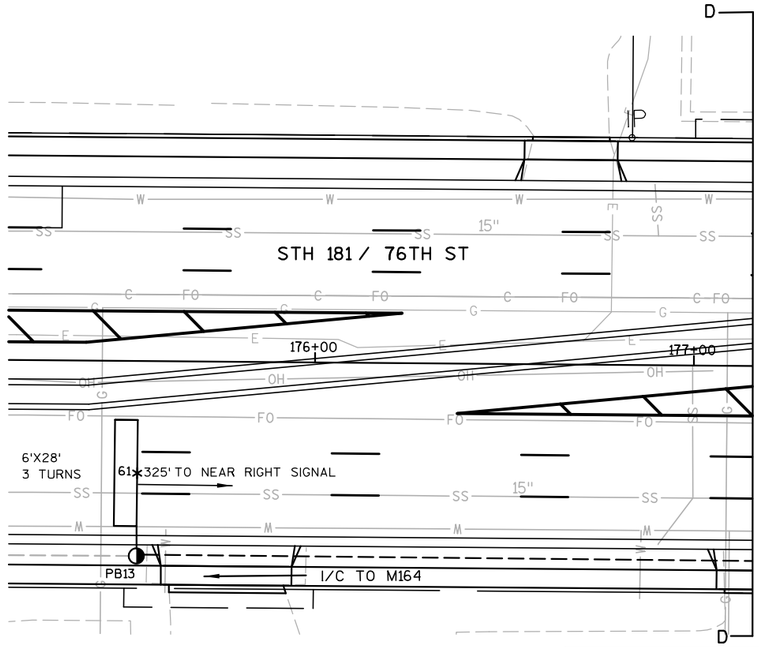
FILE NAME : S:\e9AI\051-100\089\099\Micros\DESIGN\0873\024220_sp.dgn PLOT DATE : 7/12/2007 PLOT BY : $$...plotuser...$$ PLOT NAME : PLOT SCALE : 2$.....plotscale.....$$ WISDOT/CADD: 240 of 42

7-11-07









TRAFFIC CONTROL SIGNAL

STH 181 (N 76TH ST) & W. BRADLEY ROAD
CITY OF MILWAUKEE
MILWAUKEE COUNTY

SIGNAL NO. M 112

SCALE 0 20

DISTRICT CONTACT: JAH
DESIGNED BY: STRAND ASSOCIATES INC

PAGE 2 OF 4

PROJECT NO: 2140-08-73	HWY: STH 181	COUNTY: MILWAUKEE	TRAFFIC SIGNAL PLAN	SHEET 241	E

2

SEQUENCE OF OPERATION

RING 1

	HEAD NUMBERS	Ø1 R/W	Ø1 CLEAR TO **	Ø1 CLEAR TO **	Ø2 R/W	Ø2 CLEAR TO **	Ø2 CLEAR TO **	Ø3 R/W	Ø3 CLEAR TO **	Ø3 CLEAR TO **	Ø4 R/W	Ø4 CLEAR TO **	Ø4 CLEAR TO **	FLASH
Ø1	4,5	G ←	Y ←	-	-	-	-	-	-	-	-	-	-	-
Ø2	6,7,8,9,10	R	R	R	G, G↓	Y	R	R	R	R	R	R	R	R
Ø3	12,14	-	-	-	-	-	-	G ←	Y ←	-	-	-	-	-
Ø4	15,16,17,18	R	R	R	R	R	R	R	R	R	G	Y	R	R
Ø5	9,10	-	-	-	-	-	-	-	-	-	-	-	-	-
Ø6	1,2,3,4,5	R	R	R	R	R	R	R	R	R	R	R	R	R
Ø7	16,18	-	-	-	-	-	-	-	-	-	-	-	-	-
Ø8	11,12,13,14	R	R	R	R	R	R	R	R	R	R	R	R	R
Ø2P	21,22	DW	DW	DW	*	DW	DW	DW	DW	DW	DW	DW	DW	
Ø4P	19,20	DW	DW	DW	DW	DW	DW	DW	DW	DW	*	DW	DW	
Ø6P	25,26	DW	DW	DW	DW	DW	DW	DW	DW	DW	DW	DW	DW	
Ø8P	23,24	DW	DW	DW	DW	DW	DW	DW	DW	DW	DW	DW	DW	

RING 2

	HEAD NUMBERS	Ø5 R/W	Ø5 CLEAR TO **	Ø5 CLEAR TO **	Ø6 R/W	Ø6 CLEAR TO **	Ø6 CLEAR TO **	Ø7 R/W	Ø7 CLEAR TO **	Ø7 CLEAR TO **	Ø8 R/W	Ø8 CLEAR TO **	Ø8 CLEAR TO **
Ø1	4,5	-	-	-	-	-	-	-	-	-	-	-	-
Ø2	6,7,8,9,10	R	R	R	R	R	R	R	R	R	R	R	R
Ø3	12,14	-	-	-	-	-	-	-	-	-	-	-	-
Ø4	15,16,17,18	R	R	R	R	R	R	R	R	R	R	R	R
Ø5	9,10	G ←	Y ←	-	-	-	-	-	-	-	-	-	-
Ø6	1,2,3,4,5	R	R	R	G, G↓	Y	R	R	R	R	R	R	R
Ø7	16,18	-	-	-	-	-	-	G ←	Y ←	-	-	-	-
Ø8	11,12,13,14	R	R	R	R	R	R	R	R	R	G	Y	R
Ø2P	21,22	DW	DW	DW	DW	DW	DW	DW	DW	DW	DW	DW	DW
Ø4P	19,20	DW	DW	DW	DW	DW	DW	DW	DW	DW	DW	DW	DW
Ø6P	25,26	DW	DW	DW	*	DW	DW	DW	DW	DW	DW	DW	DW
Ø8P	23,24	DW	DW	DW	DW	DW	DW	DW	DW	DW	*	DW	DW

BARRIER

** CLEARANCE TO A PHASE IN CONFLICT WITH THIS PHASE ON (SEE CHART 1)

* WHEN CALLED, TIMED STEADY WALK, THEN FLASHING DON'T WALK, THEN GOES TO STEADY DON'T WALK

CHART 1

PHASE ON	NONCONFLICTING PHASE ALLOWED TO TIME CONCURRENTLY	PHASES IN CONFLICT WITH PHASE ON
Ø1	5 OR 6	2,3,4,7,8
Ø2	5 OR 6	1,3,4,7,8
Ø3	7 OR 8	1,2,4,5,6
Ø4	7 OR 8	1,2,3,5,6
Ø5	1 OR 2	3,4,6,7,8
Ø6	1 OR 2	3,4,5,7,8
Ø7	3 OR 4	1,2.5.6.8
Ø8	3 OR 4	1.2.5.6.7

DETECTOR LOGIC

DETECTOR NUMBER	AMPLIFIER CHANNEL NUMBER	DETECTOR OPERATION: CALLS AND EXTENDS	DETECTOR OPERATION: CALLS ONLY	DETECTOR OPERATION: EXTENDS ONLY	PHASE CALLED	PHASE EXTENDED	DETECTOR DISCONNECT PHASE	CALLING DELAY	EXTENSION STRETCH	SIZE	NUMBER OF TURNS
11	1	X			1	1				6X20	3
12	1	X			1	1				6X20	3
21	2	X			2	2				6X28	3
31	3	X			3	3				6X20	3
32	3	X			3	3				6X20	3
41	4			X		4			X	6X20	3
42	5	X			4	4		X		6X20	3
43	5	X			4	4		X		6X20	3
44	6	X			4	4				6X20	3
45	6	X			4	4				6X20	3
51	7	X			5	5				6X20	3
52	7	X			5	5				6X20	3
61	8	X			6	6				6X28	3
71	9	X			7	7				6X20	3
72	9	X			7	7				6X20	3
81	10			X		8			X	6X18	3
82	11	X			8	8		X		6X20	3
83	11	X			8	8		X		6X20	3
84	12	X			8	8				6X20	3
85	12	X			8	8				6X20	3

CONTROLLER LOGIC

PHASE NUMBER	PHASE LOCKING	DUAL ENTRY W / Ø	PHASE RECALL	PHASE ACTIVE
1		6		X
2	X	6	MIN.	X
3		8		X
4		8		X
5		2		X
6	X	2	MIN.	X
7		4		X
8		4		X

OVERLAPS

O.L. "A" =
O.L. "B" =
O.L. "C" =
O.L. "D" =

N

TYPE OF INTERCONNECT	
NONE	
TBC	
CLOSED LOOP	X
HARDWIRE	
TONE (FREQ)	
FIBER OPTIC	

TYPE OF PRE-EMPT	
NONE	X
RAILROAD	
EMERGENCY VEHICLE	

TYPE OF LIGHTING	
NONE	
IN TRAFFIC CONTROL CABINET	X
IN SEPARATE CONTROL CABINET	

GENERAL NOTES:

1. ANY ACTUATED PHASE FOR WHICH THERE IS NO CALL SHALL BE SKIPPED.
2. WHEN ONE PHASE IS ON ALONE, ANY NONCONFLICTING PHASE MAY START TIMING CONCURRENTLY WITHOUT A CLEARANCE INTERVAL. (SEE CHART 1 AT LEFT.)
3. IF ANY OPPOSING THRU PHASES ARE TIMING CONCURRENTLY, THEY SHALL TERMINATE TOGETHER DUE TO PERMISSIVE LEFT TURN CONFLICT.

STH 181 & W. BRADLEY ROAD
CITY OF MILWAUKEE
MILWAUKEE COUNTY

SIGNAL NO. M 112

CONTROLLER TYPE: EPAC

DATE 7/07

FILE NAME : s:\@sai\051--100\089\099\micros\design\0873\024222_ph.dgn PLOT DATE : 7/30/2007 PLOT BY : $$...plotuser...$$ PLOT NAME : PLOT SCALE : $$.....plotscale.....$$ WISDOT/CADDS SHEET 42

PROJECT ID:	2140-08-73
INTERSECTION:	STH 181 (N 76TH ST.) & BRADLEY ROAD

Signal Wire Color Coding	BLK - black	RED - red	GRN - green
	WHT - white	BLU - blue	ORG - orange

CB1 TO	JUMPER	# OF COND.	HEAD NO.	PHASE	SIGNAL INDICATION WIRE COLOR								PED BUTTON	OTHER
					RED	YELLOW	GREEN	<RED	<YELLOW>	<GREEN>	D/WALK	WALK		
SB1		12	6	2	RED	ORG	GRN							
			23	8							BLK	BLU		
			BUTTON	8									WHT/BLK	
SB2		12	5	6	RED	ORG	GRN							
				1					BLK	BLU				
			BUTTON	8									WHT/BLK	
SB3		12	2	6	RED	ORG				GRN				
			9	2	RED/BLK	ORG/BLK	GRN/BLK							
				5					BLK/WHT	BLU/BLK				
SB4		12	3	6	RED	ORG	GRN							
			24	8							BLK	BLU		
			BUTTON	8									WHT/BLK	
SB5		12	11	8	RED	ORG	GRN							
			25	6							BLK	BLU		
			BUTTON	6									WHT/BLK	
SB6		12	16	4	RED	ORG	GRN							
				3					BLK	BLU				
			14	8	RED/BLK	ORG/BLK	GRN/BLK							
				7					BLK/WHT	BLU/BLK				
			BUTTON	6									WHT/BLK	
SB7		12	17	4	RED	ORG	GRN							
			26	6							BLK	BLU		
			BUTTON	6									WHT/BLK	
SB8		12	1	6	RED	ORG	GRN							
			19	4							BLK	BLU		
			BUTTON	4									WHT/BLK	
SB9		12	10	2	RED	ORG	GRN							
				5					BLK	BLU				
			BUTTON	4									WHT/BLK	
SB10		12	4	6	RED	ORG	GRN							
				1					BLK	BLU				
			7	2	RED/BLK	ORG/BLK				GRN/BLK				
SB11		12	8	2	RED	ORG	GRN							
			20	4							BLK	BLU		
			BUTTON	4									WHT/BLK	
SB12		12	15	4	RED	ORG	GRN							
			21	2							BLK	BLU		
			BUTTON	2									WHT/BLK	
SB13		12	18	4	RED	ORG	GRN							
				3					BLK	BLU				
			12	8	RED/BLK	ORG/BLK	GRN/BLK							
				7					BLK/WHT	BLU/BLK				
			BUTTON	2									WHT/BLK	
SB14		12	13	8	RED	ORG	GRN							
			22	2							BLK	BLU		
			BUTTON	2									WHT/BLK	

Equipment grounding conductor 10 AWG Green XLP	
From	To
CB1	SB1
SB1	SB2
SB2	SB3
SB3	SB4
SB4	SB5
SB5	SB6
SB6	SB7
SB7	SB8
SB8	SB9
SB9	SB10
SB10	SB11
SB11	SB12
SB12	SB13
SB13	SB14
SB14	CB1

Pull Box Bonding Jumper 10 AWG Green XLP	
From	To
SB1	PB1
SB2	PB3
SB3	PB4
SB4	PB5
SB5	PB6
SB6	PB10
SB7	PB11
SB8	PB12
SB9	PB14
SB10	PB16
SB11	PB17
SB12	PB18
SB13	PB22
SB14	PB23

Lighting UF 12 AWG w/ground	
From	To
CB1	SB13
SB13	SB9
CB1	SB2
SB2	SB6

*Use the white conductor in the signal cable as the grounded conductor for all traffic signal indications.

*Ensure the grounded conductor in the feeder cable and the pole cables are both 18" longer than the ungrounded conductors.

*At the signal bases, connect one terminal from the pedestrian push buttons to the color indicated in the chart. Connect the other terminal to the grounded conductor.

"Other" column may include shadow box sign

TRAFFIC CONTROL SIGNAL

STH 181 (N 76TH STREET) & W. BRADLEY
CITY OF MILWAUKEE
MILWAUKEE COUNTY

SIGNAL NO. M 112 SCALE 0 20

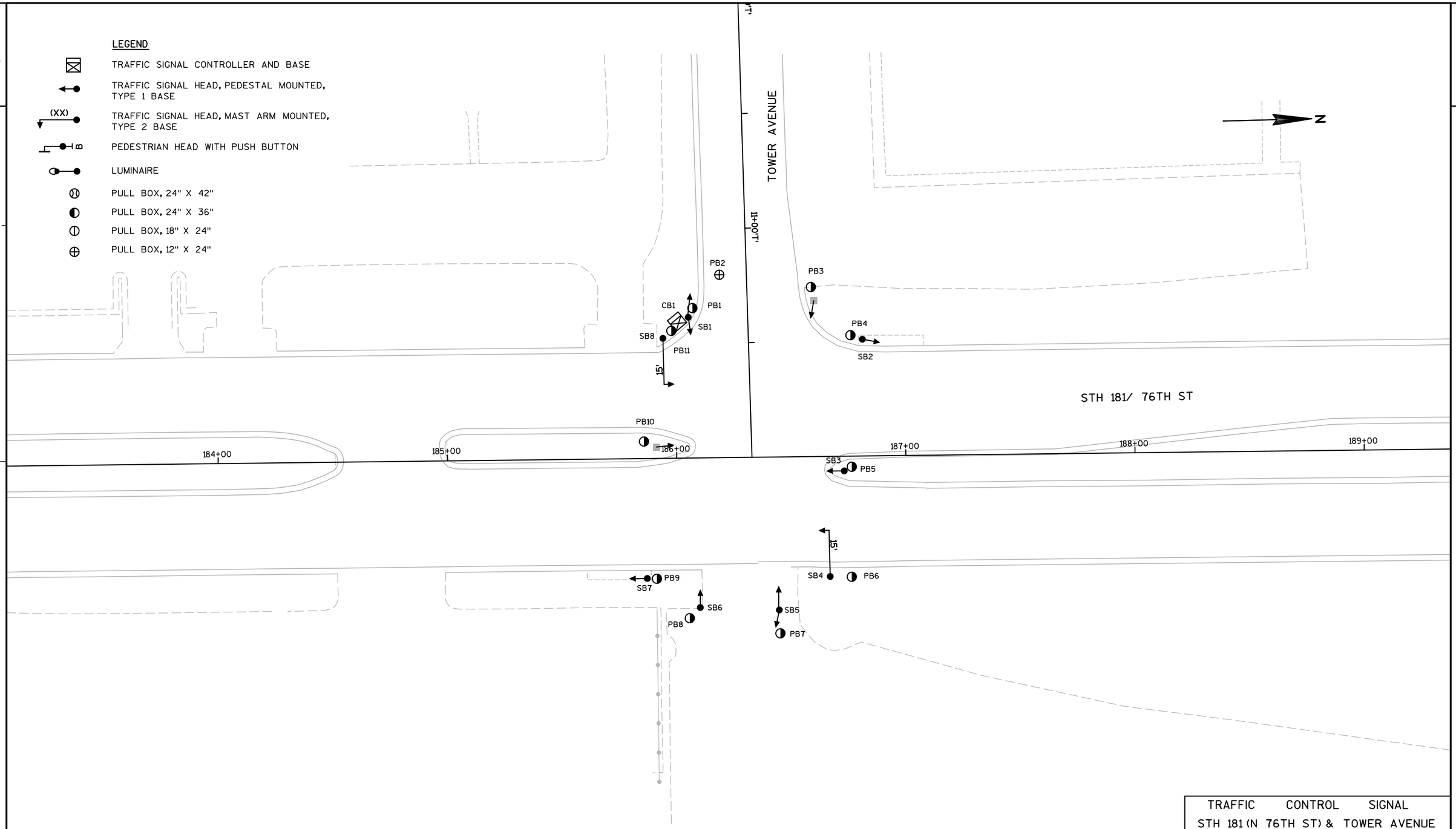
DISTRICT CONTACT: JAH
DESIGNED BY: STRAND ASSOCIATES INC.

FILE NAME : s:\@sai\051--100\089\099\micros\design\0873\024223_cr.dgn PLOT DATE : 7/30/2007 PLOT BY : $$...plotuser...$$ PLOT NAME : PLOT SCALE : $$.....plotscale.....$$ WISDOT/CADDS SHEET 42

2

LEGEND

- TRAFFIC SIGNAL CONTROLLER AND BASE
- TRAFFIC SIGNAL HEAD, PEDESTAL MOUNTED, TYPE 1 BASE
- (XX) TRAFFIC SIGNAL HEAD, MAST ARM MOUNTED, TYPE 2 BASE
- B PEDESTRIAN HEAD WITH PUSH BUTTON
- LUMINAIRE
- PULL BOX, 24" X 42"
- PULL BOX, 24" X 36"
- PULL BOX, 18" X 24"
- PULL BOX, 12" X 24"



NOTE: GRAY SHADED ITEMS ARE TO REMAIN.
BOLD REPRESENTS ITEMS TO BE REMOVED.

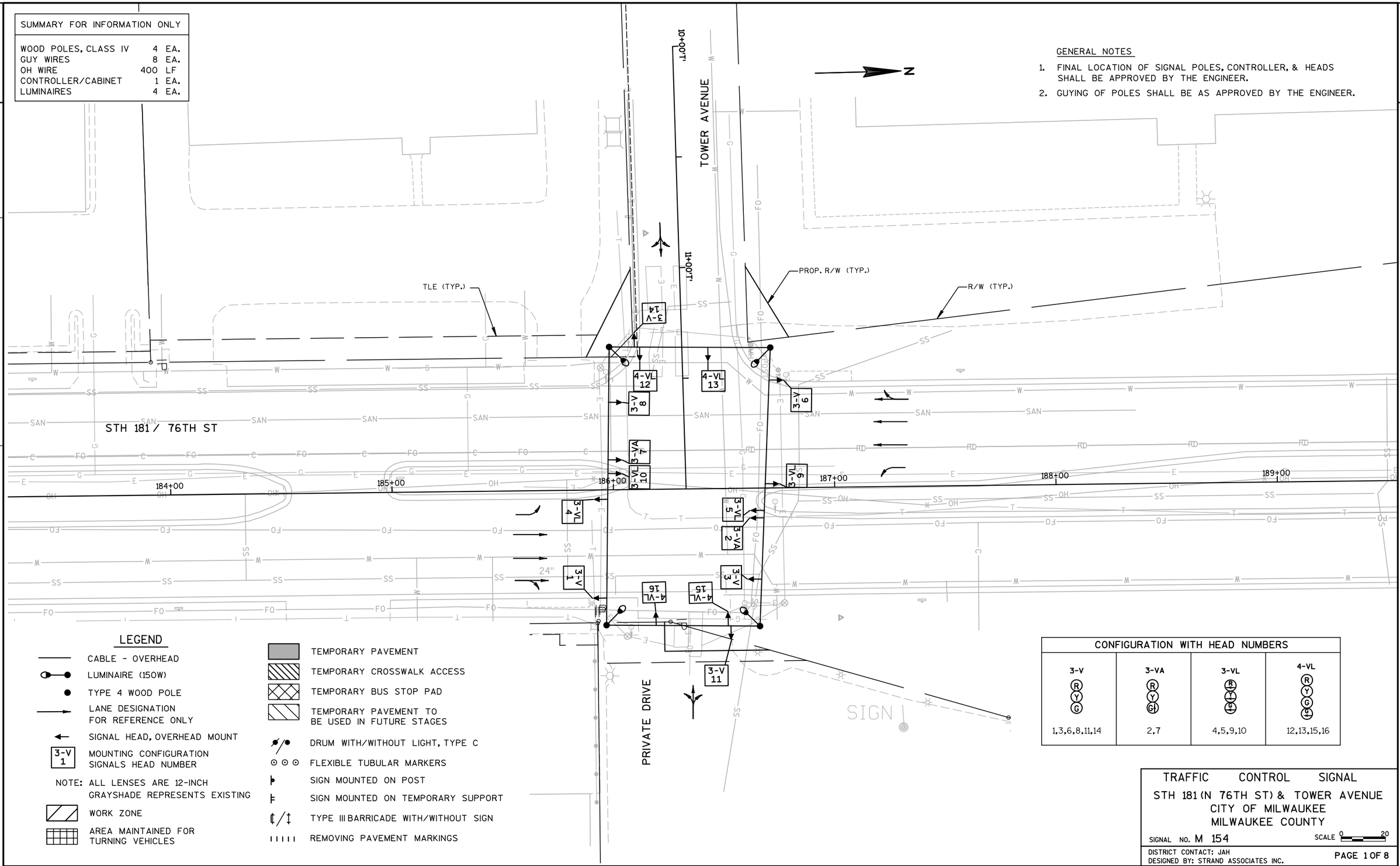
TRAFFIC CONTROL SIGNAL
STH 181 (N 76TH ST) & TOWER AVENUE
CITY OF MILWAUKEE
MILWAUKEE COUNTY
SIGNAL NO. M 154 SCALE 0 20
DISTRICT CONTACT: JAH
DESIGNED BY: STRAND ASSOCIATES INC
PAGE 1 OF 1

PROJECT NO: 2140-08-73	HWY: STH 181	COUNTY: MILWAUKEE	TRAFFIC SIGNAL REMOVAL PLAN	SHEET 244	E

SUMMARY FOR INFORMATION ONLY	
WOOD POLES, CLASS IV	4 EA.
GUY WIRES	8 EA.
OH WIRE	400 LF
CONTROLLER/CABINET	1 EA.
LUMINAIRES	4 EA.

GENERAL NOTES

1. FINAL LOCATION OF SIGNAL POLES, CONTROLLER, & HEADS SHALL BE APPROVED BY THE ENGINEER.
2. GUYING OF POLES SHALL BE AS APPROVED BY THE ENGINEER.



LEGEND

- CABLE - OVERHEAD
- LUMINAIRE (150W)
- TYPE 4 WOOD POLE
- LANE DESIGNATION FOR REFERENCE ONLY
- SIGNAL HEAD, OVERHEAD MOUNT
- 3-V 1 MOUNTING CONFIGURATION SIGNALS HEAD NUMBER
- NOTE: ALL LENSES ARE 12-INCH GRAYSHADE REPRESENTS EXISTING
- WORK ZONE
- AREA MAINTAINED FOR TURNING VEHICLES
- TEMPORARY PAVEMENT
- TEMPORARY CROSSWALK ACCESS
- TEMPORARY BUS STOP PAD
- TEMPORARY PAVEMENT TO BE USED IN FUTURE STAGES
- DRUM WITH/WITHOUT LIGHT, TYPE C
- FLEXIBLE TUBULAR MARKERS
- SIGN MOUNTED ON POST
- SIGN MOUNTED ON TEMPORARY SUPPORT
- TYPE III BARRICADE WITH/WITHOUT SIGN
- REMOVING PAVEMENT MARKINGS

CONFIGURATION WITH HEAD NUMBERS			
3-V (R Y G)	3-VA (R Y G)	3-VL (R Y G)	4-VL (R Y G G)
1,3,6,8,11,14	2,7	4,5,9,10	12,13,15,16

TRAFFIC CONTROL SIGNAL

STH 181 (N 76TH ST) & TOWER AVENUE
CITY OF MILWAUKEE
MILWAUKEE COUNTY

SIGNAL NO. M 154 SCALE 0 20

DISTRICT CONTACT: JAH
DESIGNED BY: STRAND ASSOCIATES INC.

PAGE 1 OF 8

PROJECT NO: 2140-08-73	HWY: STH 181	COUNTY: MILWAUKEE	TEMPORARY SIGNAL PLAN - PRE-STAGE 1	SHEET 245	E

2

GENERAL NOTES

1. FINAL LOCATION OF SIGNAL POLES, CONTROLLER, & HEADS SHALL BE APPROVED BY THE ENGINEER.
2. GUYING OF POLES SHALL BE AS APPROVED BY THE ENGINEER.

N

TOWER AVENUE

STH 181 / 76TH ST

PRIVATE DRIVE

10+00 T.

11+00 T.

184+00

185+00

186+00

187+00

188+00

189+00

TLE (TYP.)

PROP. R/W (TYP.)

R/W (TYP.)

3-V 14

4-VL 12

4-VL 13

3-V 8

3-VA 7

3-V 6

3-VL 10

3-VL 9

3-VL 5

3-VA 2

3-V 3

3-VL 4

3-V 1

4-VL 16

4-VL 15

3-V 11

SIGN

24"

LEGEND

- CABLE - OVERHEAD
- LUMINAIRE (150W)
- TYPE 4 WOOD POLE
- LANE DESIGNATION FOR REFERENCE ONLY
- SIGNAL HEAD, OVERHEAD MOUNT
- 3-V 1 MOUNTING CONFIGURATION SIGNALS HEAD NUMBER
- NOTE: ALL LENSES ARE 12-INCH GRAYSHADE REPRESENTS EXISTING
- WORK ZONE
- AREA MAINTAINED FOR TURNING VEHICLES
- TEMPORARY PAVEMENT
- TEMPORARY CROSSWALK ACCESS
- TEMPORARY BUS STOP PAD
- TEMPORARY PAVEMENT TO BE USED IN FUTURE STAGES
- DRUM WITH/WITHOUT LIGHT, TYPE C
- FLEXIBLE TUBULAR MARKERS
- SIGN MOUNTED ON POST
- SIGN MOUNTED ON TEMPORARY SUPPORT
- TYPE III BARRICADE WITH/WITHOUT SIGN
- REMOVING PAVEMENT MARKINGS

CONFIGURATION WITH HEAD NUMBERS			
3-V (R, Y, G)	3-VA (R, Y, G)	3-VL (R, Y, G)	4-VL (R, Y, G, G)
1,3,6,8,11,14	2,7	4,5,9,10	12,13,15,16

TRAFFIC CONTROL SIGNAL

STH 181 (N 76TH ST) & TOWER AVENUE
CITY OF MILWAUKEE
MILWAUKEE COUNTY

SIGNAL NO. M 154

SCALE 0 20

DISTRICT CONTACT: JAH
DESIGNED BY: STRAND ASSOCIATES INC.

PAGE 2 OF 8

PROJECT NO: 2140-08-73	HWY: STH 181	COUNTY: MILWAUKEE	TEMPORARY SIGNAL PLAN - STAGE 1	SHEET 246	E

FILE NAME : s:\@sai\051--100\089\099\micros\design\0873\024311_sp.dgn PLOT DATE : 7/30/2007 PLOT BY : $$...plotuser...$$ PLOT NAME : PLOT SCALE : $$.....plotscale.....$$

2

2

GENERAL NOTES

1. FINAL LOCATION OF SIGNAL POLES, CONTROLLER, & HEADS SHALL BE APPROVED BY THE ENGINEER.
2. GUYING OF POLES SHALL BE AS APPROVED BY THE ENGINEER.
3. COVER HEADS 9 AND 10 DURING STAGE 2. TURN OFF PHASE 5 IN THE CONTROLLER.

N

TOWER AVENUE

STH 181 / 76TH ST

PROP. R/W (TYP.)

R/W (TYP.)

TLE (TYP.)

PRIVATE DRIVE

SIGN

10+00 T.

11+00 T.

184+00 185+00 186+00 187+00 188+00 189+00

3-V 14 | 4-VL 12 | 4-VL 13 | 3-V 8 | 3-V 7 | 3-VL 4 | 3-VL 10 BAGGED | 3-V 1 | 3-VA 3 | 3-VL 5 | 3-VA 2 | 3-V 9 | 3-VL 6 BAGGED | 4-VL 16 | 4-VL 15 | 3-V 11

LEGEND

- CABLE - OVERHEAD
- LUMINAIRE (150W)
- TYPE 4 WOOD POLE
- LANE DESIGNATION FOR REFERENCE ONLY
- SIGNAL HEAD, OVERHEAD MOUNT
- 3-V 1 MOUNTING CONFIGURATION SIGNALS HEAD NUMBER
- NOTE: ALL LENSES ARE 12-INCH GRAYSHADE REPRESENTS EXISTING
- WORK ZONE
- AREA MAINTAINED FOR TURNING VEHICLES
- TEMPORARY PAVEMENT
- TEMPORARY CROSSWALK ACCESS
- TEMPORARY BUS STOP PAD
- TEMPORARY PAVEMENT TO BE USED IN FUTURE STAGES
- DRUM WITH/WITHOUT LIGHT, TYPE C
- FLEXIBLE TUBULAR MARKERS
- SIGN MOUNTED ON POST
- SIGN MOUNTED ON TEMPORARY SUPPORT
- TYPE III BARRICADE WITH/WITHOUT SIGN
- REMOVING PAVEMENT MARKINGS

CONFIGURATION WITH HEAD NUMBERS			
3-V (R Y G)	3-VA (R Y G)	3-VL (R Y G)	4-VL (R Y G G)
1,3,6,7,8,11,14	2	4,5,9,10	12,13,15,16

TRAFFIC CONTROL SIGNAL

STH 181 (N 76TH ST) & TOWER AVENUE
CITY OF MILWAUKEE
MILWAUKEE COUNTY

SIGNAL NO. M 154 SCALE 0 20

DISTRICT CONTACT: JAH
DESIGNED BY: STRAND ASSOCIATES INC.

PAGE 3 OF 8

PROJECT NO: 2140-08-73	HWY: STH 181	COUNTY: MILWAUKEE	TEMPORARY SIGNAL PLAN - STAGE 2	SHEET 247	E

GENERAL NOTES

1. FINAL LOCATION OF SIGNAL POLES, CONTROLLER, & HEADS SHALL BE APPROVED BY THE ENGINEER.
2. GUYING OF POLES SHALL BE AS APPROVED BY THE ENGINEER.
3. WEST APPROACH OF TOWER AVENUE CLOSED DURING STAGE 3 PHASE I. COVER HEADS 4, 5, 9, 10, 14, 15 AND 16 DURING STAGE 3 PHASE I. TURN OFF PHASES 1, 3, AND 5 IN THE CONTROLLER.

N

TOWER AVENUE

STH 181 / 76TH ST

PRIVATE DRIVE

SIGN

10+00 FT

11+00 FT

TLE (TYP.)

PROP. R/W (TYP.)

R/W (TYP.)

184+00

185+00

186+00

187+00

188+00

189+00

BAGGED

3-V 14

4-VL 12

4-VL 13

4-VL 4

3-V 7

3-V 8

3-VL 10

3-V 5

3-VA 2

3-V 3

3-V 9

3-VL 6

3-V 1

4-VL 16

4-VL 15

3-V 11

LEGEND

- CABLE - OVERHEAD
- LUMINAIRE (150W)
- TYPE 4 WOOD POLE
- LANE DESIGNATION FOR REFERENCE ONLY
- SIGNAL HEAD, OVERHEAD MOUNT
- 3-V 1 MOUNTING CONFIGURATION SIGNALS HEAD NUMBER
- NOTE: ALL LENSES ARE 12-INCH GRAYSHADE REPRESENTS EXISTING
- WORK ZONE
- AREA MAINTAINED FOR TURNING VEHICLES
- TEMPORARY PAVEMENT
- TEMPORARY CROSSWALK ACCESS
- TEMPORARY BUS STOP PAD
- TEMPORARY PAVEMENT TO BE USED IN FUTURE STAGES
- DRUM WITH/WITHOUT LIGHT, TYPE C
- FLEXIBLE TUBULAR MARKERS
- SIGN MOUNTED ON POST
- SIGN MOUNTED ON TEMPORARY SUPPORT
- TYPE III BARRICADE WITH/WITHOUT SIGN
- REMOVING PAVEMENT MARKINGS

CONFIGURATION WITH HEAD NUMBERS			
3-V (R, Y, G)	3-VA (R, Y, G)	3-VL (R, Y, G)	4-VL (R, Y, G, G)
1,3,6,7,8,11,14	2	4,5,9,10	12,13,15,16

TRAFFIC CONTROL SIGNAL

STH 181 (N 76TH ST) & TOWER AVENUE
CITY OF MILWAUKEE
MILWAUKEE COUNTY

SIGNAL NO. M 154 SCALE 0 20

DISTRICT CONTACT: JAH
DESIGNED BY: STRAND ASSOCIATES INC.

PAGE 4 OF 8

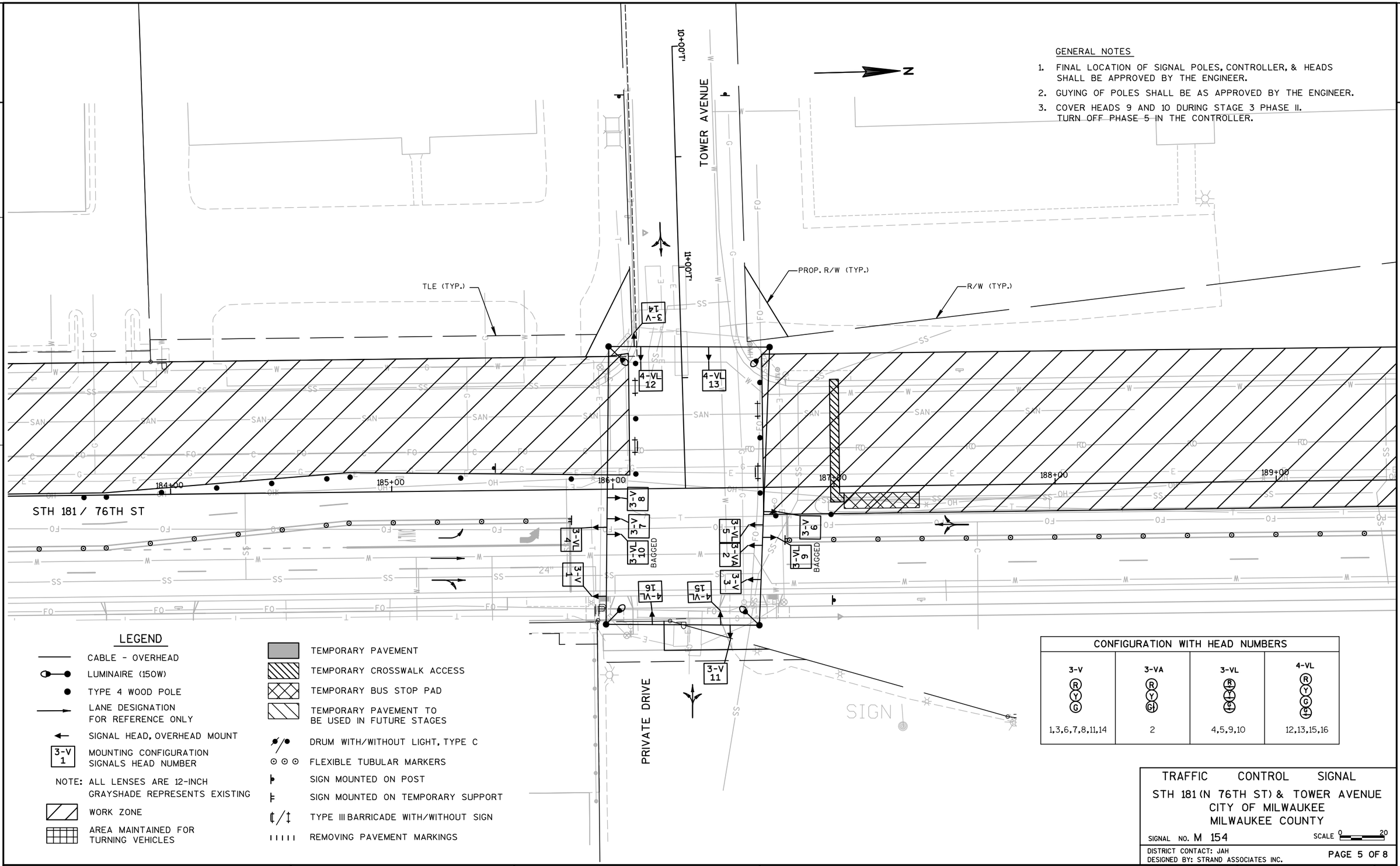
PROJECT NO: 2140-08-73	HWY: STH 181	COUNTY: MILWAUKEE	TEMPORARY SIGNAL PLAN - STAGE 3 PHASE I	SHEET 248 E

FILE NAME : s:\@sai\051--100\089\099\micros\design\0873\024313_sp.dgn PLOT DATE : 7/30/2007 PLOT BY : $$...plotuser...$$ PLOT NAME : PLOT SCALE : $$.....plotscale.....$$ WISDOT/CADDS SHEET 42

2

GENERAL NOTES

1. FINAL LOCATION OF SIGNAL POLES, CONTROLLER, & HEADS SHALL BE APPROVED BY THE ENGINEER.
2. GUYING OF POLES SHALL BE AS APPROVED BY THE ENGINEER.
3. COVER HEADS 9 AND 10 DURING STAGE 3 PHASE II. TURN OFF PHASE 5 IN THE CONTROLLER.



LEGEND

- CABLE - OVERHEAD
- LUMINAIRE (150W)
- TYPE 4 WOOD POLE
- LANE DESIGNATION FOR REFERENCE ONLY
- SIGNAL HEAD, OVERHEAD MOUNT
- 3-V 1 MOUNTING CONFIGURATION SIGNALS HEAD NUMBER
- NOTE: ALL LENSES ARE 12-INCH GRAYSHADE REPRESENTS EXISTING
- WORK ZONE
- AREA MAINTAINED FOR TURNING VEHICLES
- TEMPORARY PAVEMENT
- TEMPORARY CROSSWALK ACCESS
- TEMPORARY BUS STOP PAD
- TEMPORARY PAVEMENT TO BE USED IN FUTURE STAGES
- DRUM WITH/WITHOUT LIGHT, TYPE C
- FLEXIBLE TUBULAR MARKERS
- SIGN MOUNTED ON POST
- SIGN MOUNTED ON TEMPORARY SUPPORT
- TYPE III BARRICADE WITH/WITHOUT SIGN
- REMOVING PAVEMENT MARKINGS

CONFIGURATION WITH HEAD NUMBERS			
3-V (R Y G)	3-VA (R Y G)	3-VL (R Y G)	4-VL (R Y G G)
1,3,6,7,8,11,14	2	4,5,9,10	12,13,15,16

TRAFFIC CONTROL SIGNAL

STH 181 (N 76TH ST) & TOWER AVENUE
CITY OF MILWAUKEE
MILWAUKEE COUNTY

SIGNAL NO. M 154 SCALE 0 20

DISTRICT CONTACT: JAH
DESIGNED BY: STRAND ASSOCIATES INC.

PROJECT NO: 2140-08-73	HWY: STH 181	COUNTY: MILWAUKEE	TEMPORARY SIGNAL PLAN - STAGE 3 PHASE II	SHEET 249	E

FILE NAME : s:\@sai\051--100\089\099\micros\design\0873\024314_sp.dgn PLOT DATE : 7/30/2007 PLOT BY : $$...plotuser...$$ PLOT NAME : PLOT SCALE : $$.....plotscale.....$$ WISDOT/CADDS SHEET 42

2

GENERAL NOTES

1. FINAL LOCATION OF SIGNAL POLES, CONTROLLER, & HEADS SHALL BE APPROVED BY THE ENGINEER.
2. GUYING OF POLES SHALL BE AS APPROVED BY THE ENGINEER.

N

TOWER AVENUE

10+00 T.

11+00 T.

TLE (TYP.)

PROP. R/W (TYP.)

R/W (TYP.)

3-V 14

4-VL 12

4-VL 13

3-V 8

3-V 6

5-VA 7

3-VL 10

5-VL 9

3-VL 5

3-VA 2

3-VL 4

3-V 1

3-V 3

4-VL 16

4-VL 15

3-V 11

184+00

185+00

186+00

187+00

188+00

189+00

STH 181 / 76TH ST

PRIVATE DRIVE

SIGN

LEGEND

- CABLE - OVERHEAD
- LUMINAIRE (150W)
- TYPE 4 WOOD POLE
- LANE DESIGNATION FOR REFERENCE ONLY
- SIGNAL HEAD, OVERHEAD MOUNT
- 3-V 1 MOUNTING CONFIGURATION SIGNALS HEAD NUMBER
- NOTE: ALL LENSES ARE 12-INCH GRAYSHADE REPRESENTS EXISTING
- WORK ZONE
- AREA MAINTAINED FOR TURNING VEHICLES
- TEMPORARY PAVEMENT
- TEMPORARY CROSSWALK ACCESS
- TEMPORARY BUS STOP PAD
- TEMPORARY PAVEMENT TO BE USED IN FUTURE STAGES
- DRUM WITH/WITHOUT LIGHT, TYPE C
- FLEXIBLE TUBULAR MARKERS
- SIGN MOUNTED ON POST
- SIGN MOUNTED ON TEMPORARY SUPPORT
- TYPE III BARRICADE WITH/WITHOUT SIGN
- REMOVING PAVEMENT MARKINGS

CONFIGURATION WITH HEAD NUMBERS

3-V	3-VA	3-VL	4-VL
R Y G	R Y G	R Y G	R Y G G
1,3,6,8,11,14	2,7	4,5,9,10	12,13,15,16

TRAFFIC CONTROL SIGNAL

STH 181 (N 76TH ST) & TOWER AVENUE
CITY OF MILWAUKEE
MILWAUKEE COUNTY

SIGNAL NO. M 154

SCALE 0 20

DISTRICT CONTACT: JAH
DESIGNED BY: STRAND ASSOCIATES INC.

PAGE 6 OF 8

PROJECT NO: 2140-08-73	HWY: STH 181	COUNTY: MILWAUKEE	TEMPORARY SIGNAL PLAN - STAGE 4 PHASE I	SHEET 250	E

FILE NAME : s:\@sai\051--100\089\099\micros\design\0873\024315_sp.dgn PLOT DATE : 7/30/2007 PLOT BY : $$...plotuser...$$ PLOT NAME : PLOT SCALE : $$.....plotscale.....$$ WISDOT/CADDS SHEET 42

2

GENERAL NOTES

1. FINAL LOCATION OF SIGNAL POLES, CONTROLLER, & HEADS SHALL BE APPROVED BY THE ENGINEER.
2. GUYING OF POLES SHALL BE AS APPROVED BY THE ENGINEER.

N

TOWER AVENUE

10+00 T.

11+00 T.

PROP. R/W (TYP.)

R/W (TYP.)

TLE (TYP.)

STH 181 / 76TH ST

184+00 185+00 186+00 187+00 188+00 189+00

PRIVATE DRIVE

SIGN

3-V 14
4-VL 12
4-VL 13
3-V 8
3-V 6
3-VA 7
3-VL 4
3-VL 10
3-VL 5
3-VA 2
3-VL 9
3-V 1
3-V 3
4-VL 16
4-VL 15
3-V 11

LEGEND

- CABLE - OVERHEAD
- LUMINAIRE (150W)
- TYPE 4 WOOD POLE
- LANE DESIGNATION FOR REFERENCE ONLY
- SIGNAL HEAD, OVERHEAD MOUNT
- 3-V 1 MOUNTING CONFIGURATION SIGNALS HEAD NUMBER
- NOTE: ALL LENSES ARE 12-INCH GRAYSHADE REPRESENTS EXISTING
- WORK ZONE
- AREA MAINTAINED FOR TURNING VEHICLES
- TEMPORARY PAVEMENT
- TEMPORARY CROSSWALK ACCESS
- TEMPORARY BUS STOP PAD
- TEMPORARY PAVEMENT TO BE USED IN FUTURE STAGES
- DRUM WITH/WITHOUT LIGHT, TYPE C
- FLEXIBLE TUBULAR MARKERS
- SIGN MOUNTED ON POST
- SIGN MOUNTED ON TEMPORARY SUPPORT
- TYPE III BARRICADE WITH/WITHOUT SIGN
- REMOVING PAVEMENT MARKINGS

CONFIGURATION WITH HEAD NUMBERS			
3-V (R Y G)	3-VA (R Y G)	3-VL (R Y G)	4-VL (R Y G G)
1,3,6,8,11,14	2,7	4,5,9,10	12,13,15,16

TRAFFIC CONTROL SIGNAL

STH 181 (N 76TH ST) & TOWER AVENUE
CITY OF MILWAUKEE
MILWAUKEE COUNTY

SIGNAL NO. M 154 SCALE 0 20

DISTRICT CONTACT: JAH
DESIGNED BY: STRAND ASSOCIATES INC.

PAGE 7 OF 8

PROJECT NO: 2140-08-73	HWY: STH 181	COUNTY: MILWAUKEE	TEMPORARY SIGNAL PLAN - STAGE 4 PHASE II	SHEET 251	E

FILE NAME : s:\@sai\051--100\089\099\micros\design\0873\024316_sp.dgn PLOT DATE : 7/30/2007 PLOT BY : $$...plotuser...$$ PLOT NAME : PLOT SCALE : $$.....plotscale.....$$ WISDOT/CADDS SHEET 42

SEQUENCE OF OPERATION

RING 1

	HEAD NUMBERS	Ø1 R/W	Ø1 **	Ø1	Ø1	Ø1	Ø1	Ø2 R/W	Ø2 **	Ø2	Ø2	Ø2	Ø2	Ø3 R/W	Ø3 **	Ø3	Ø3	Ø3	Ø3	Ø4 R/W	Ø4 **	Ø4	Ø4	Ø4	Ø4	FLASH
			CLEAR TO						CLEAR TO						CLEAR TO						CLEAR TO					
Ø1	4,5	G ←	Y ←	R ←				R ←	R ←	R ←				R ←	R ←	R ←				R ←	R ←	R ←				R ←
Ø2	6,7,8	R	R	R				G,G↓	Y	R				R	R	R				R	R	R				R
Ø3	14,15,16	R	R	R				R	R	R				G,G ←	Y	R				R	R	R				R
Ø4	11,12,13	R	R	R				R	R	R				R	R	R				G,G ←	Y	R				R
Ø5	9,10	R ←	R ←	R ←				R ←	R ←	R ←				R ←	R ←	R ←				R ←	R ←	R ←				R ←
Ø6	1,2,3	R	R	R				R	R	R				R	R	R				R	R	R				R
Ø7																										
Ø8																										
Ø2P																										
Ø4P																										
Ø6P																										
Ø8P																										

RING 2

	HEAD NUMBERS	Ø5 R/W	Ø5 **	Ø5	Ø5	Ø5	Ø5	Ø6 R/W	Ø6 **	Ø6	Ø6	Ø6	Ø6	Ø7 R/W	Ø7 **	Ø7	Ø7	Ø7	Ø7	Ø8 R/W	Ø8 **	Ø8	Ø8	Ø8	Ø8
			CLEAR TO						CLEAR TO						CLEAR TO						CLEAR TO				
Ø1	4,5	R ←	R ←	R ←				R ←	R ←	R ←															
Ø2	6,7,8	R	R	R				R	R	R															
Ø3	14,15,16	R	R	R				R	R	R															
Ø4	11,12,13	R	R	R				R	R	R															
Ø5	9,10	G ←	Y ←	R ←				R ←	R ←	R ←															
Ø6	1,2,3	R	R	R				G,G↓	Y	R															
Ø7																									
Ø8																									
Ø2P																									
Ø4P																									
Ø6P																									
Ø8P																									

Ø1 Ø2 Ø3 Ø4 Ø5 Ø6 NOT USED NOT USED

BARRIER

** CLEARANCE TO A PHASE IN CONFLICT WITH THIS PHASE ON (SEE CHART 1)

N

CONTROLLER LOGIC

PHASE NUMBER	PHASE LOCKING	DUAL ENTRY W / Ø	PHASE RECALL	PHASE ACTIVE
1			MAX	X
2			MAX	X
3			MAX	X
4			MAX	X
5			MAX	X
6			MAX	X
7				
8				

OVERLAPS

O.L. "A" =
O.L. "B" =
O.L. "C" =
O.L. "D" =

SIGNAL PHASING NOTES

1. TURN OFF PHASE 5 DURING STAGE 2 AND STAGE 3 PHASE II.
2. TURN OFF PHASES 1, 3, & 5 DURING STAGE 3 PHASE 1.

TYPE OF INTERCONNECT	
NONE	
TBC	X
CLOSED LOOP	
HARDWIRE	
TONE (FREQ)	
FIBER OPTIC	

TYPE OF PRE-EMPT	
NONE	X
RAILROAD	
EMERGENCY VEHICLE	

TYPE OF LIGHTING	
NONE	
IN TRAFFIC CONTROL CABINET	X
IN SEPARATE CONTROL CABINET	

GENERAL NOTES:

1. ANY ACTUATED PHASE FOR WHICH THERE IS NO CALL SHALL BE SKIPPED.
2. WHEN ONE PHASE IS ON ALONE, ANY NONCONFLICTING PHASE MAY START TIMING CONCURRENTLY WITHOUT A CLEARANCE INTERVAL. (SEE CHART 1 BELOW.)

CHART 1

PHASE ON	NONCONFLICTING PHASE ALLOWED TO TIME CONCURRENTLY	PHASES IN CONFLICT WITH PHASE ON
Ø1	5 OR 6	2,3,4
Ø2	5 OR 6	1,3,4
Ø3	NONE	1,2,4,5,6
Ø4	NONE	1,2,3,5,6
Ø5	1 OR 2	3,4,6
Ø6	1 OR 2	3,4,5
Ø7		
Ø8		

STH 181 & TOWER AVENUE
CITY OF MILWAUKEE
MILWAUKEE COUNTY

SIGNAL NO. M 154

CONTROLLER TYPE:

DATE 7/07

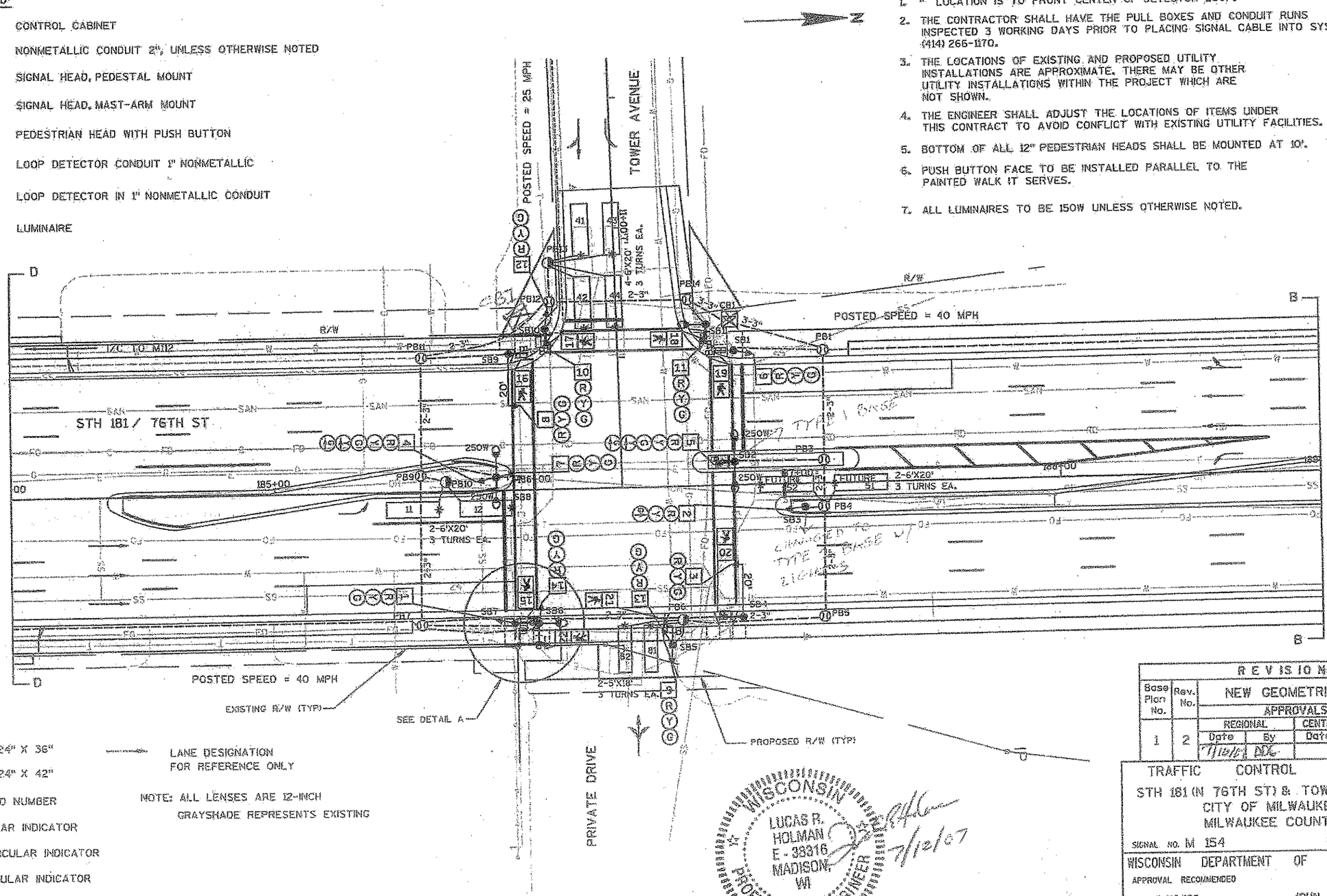
FILE NAME : s:\@sai\051--100\089\099\micros\design\0873\024317_ph.dgn PLOT DATE : 7/30/2007 PLOT BY : $$...plotuser...$$ PLOT NAME : PLOT SCALE : $$.....plotscale.....$$ WISDOT/CADDS SHEET 42

LEGEND

- CONTROL CABINET
- NONMETALLIC CONDUIT 2", UNLESS OTHERWISE NOTED
- SIGNAL HEAD, PEDESTAL MOUNT
- SIGNAL HEAD, MAST-ARM MOUNT
- PEDESTRIAN HEAD WITH PUSH BUTTON
- LOOP DETECTOR CONDUIT 1" NONMETALLIC
- LOOP DETECTOR IN 1" NONMETALLIC CONDUIT
- LUMINAIRE

CONSTRUCTION NOTES:

1. * LOCATION IS TO FRONT CENTER OF DETECTOR LOOP.
2. THE CONTRACTOR SHALL HAVE THE PULL BOXES AND CONDUIT RUNS INSPECTED 3 WORKING DAYS PRIOR TO PLACING SIGNAL CABLE INTO SYSTEM. (414) 266-1170.
3. THE LOCATIONS OF EXISTING AND PROPOSED UTILITY INSTALLATIONS ARE APPROXIMATE. THERE MAY BE OTHER UTILITY INSTALLATIONS WITHIN THE PROJECT WHICH ARE NOT SHOWN.
4. THE ENGINEER SHALL ADJUST THE LOCATIONS OF ITEMS UNDER THIS CONTRACT TO AVOID CONFLICT WITH EXISTING UTILITY FACILITIES.
5. BOTTOM OF ALL 12" PEDESTRIAN HEADS SHALL BE MOUNTED AT 10'.
6. PUSH BUTTON FACE TO BE INSTALLED PARALLEL TO THE PAINTED WALK IT SERVES.
7. ALL LUMINAIRES TO BE 150W UNLESS OTHERWISE NOTED.



LEGEND (CONT'D)

- PULL BOX, 24" X 36"
- PULL BOX, 24" X 42"
- SIGNAL HEAD NUMBER
- RED CIRCULAR INDICATOR
- YELLOW CIRCULAR INDICATOR
- GREEN CIRCULAR INDICATOR
- YELLOW ARROW
- GREEN ARROW
- DON'T WALK INDICATOR 12" / WALK INDICATOR 12"
- LANE DESIGNATION FOR REFERENCE ONLY

NOTE: ALL LENSES ARE 12-INCH
GRAYSHADE REPRESENTS EXISTING

WISCONSIN PROFESSIONAL ENGINEER
LUCAS R. HOLMAN
E-33316
MADISON, WI
7/12/07

REVISIONS					
Base Plan No.	Rev. No.	NEW GEOMETRICS			Cont. Type
		APPROVALS			
		REGIONAL		CENTRAL OFFICE	
		Date	By	Date	By
1	2	11/3/04	DJC		EPAC

TRAFFIC CONTROL SIGNAL
STH 181 (N 76TH ST) & TOWER AVENUE
CITY OF MILWAUKEE
MILWAUKEE COUNTY

SIGNAL NO. M 154 SCALE 0 20

WISCONSIN DEPARTMENT OF TRANSPORTATION
APPROVAL RECOMMENDED
Date 6/16/86 JOHN A. WHITE, DISTRICT TRAFFIC ENGINEER
APPROVED
Date 7/2/86 H.O. PRICE, STATE TRAFFIC ENGINEER

11/03/04 CHANGE CONTROLLER TO EPAC CHANGE CABINET

DISTRICT CONTACT: JAH
DESIGNED BY: STRAND ASSOCIATES INC
PAGE 1 OF 4

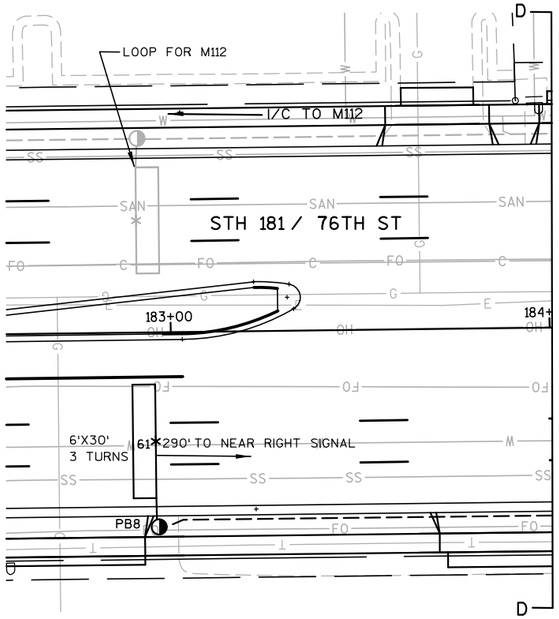
PROJECT NO: 2140-08-73	HWY: STH 181	COUNTY: MILWAUKEE	TRAFFIC SIGNAL PLAN	SHEET 253 253 E

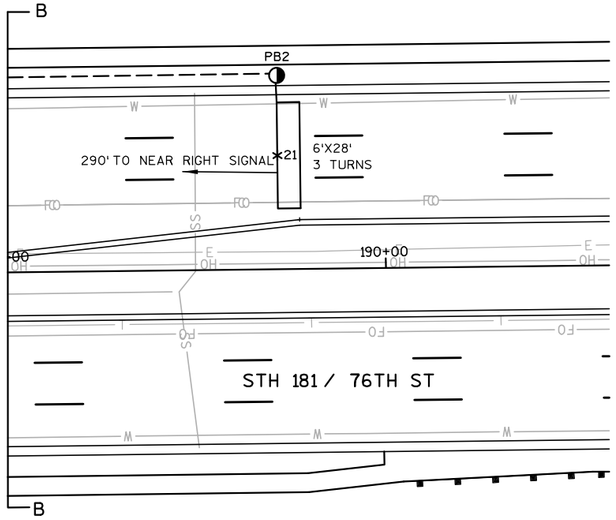
PLOT DATE : 7/12/2007 PLOT BY : ss...plotuser...ss PLOT NAME : PLOT SCALE : ss....plotscale.....ss WISDOT/CADDS SHEET 42

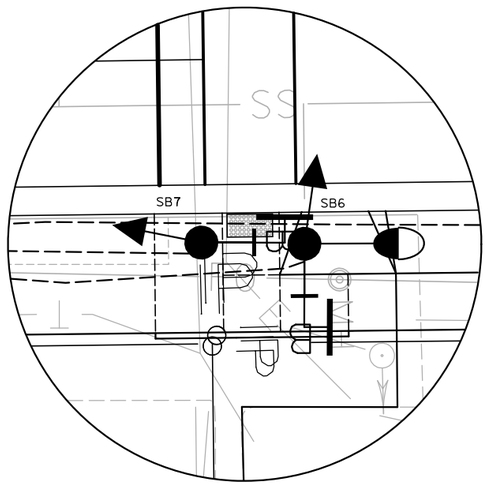
7-17-07

2

N







DETAIL A

TRAFFIC CONTROL SIGNAL

STH 181 (N 76TH ST) & TOWER AVENUE
CITY OF MILWAUKEE
MILWAUKEE COUNTY

SIGNAL NO. M 154

SCALE 0 20

DISTRICT CONTACT: JAH
DESIGNED BY: STRAND ASSOCIATES INC

PAGE 2 OF 4

PROJECT NO: 2140-08-73	HWY: STH 181	COUNTY: MILWAUKEE	TRAFFIC SIGNAL PLAN	SHEET 254	E

2

SEQUENCE OF OPERATION

RING 1

	HEAD NUMBERS	Ø1 R/W	Ø1 CLEAR TO **	Ø2 R/W	Ø2 CLEAR TO **	Ø3 R/W	Ø3 CLEAR TO **	Ø4 R/W	Ø4 CLEAR TO **	FLASH
Ø1	4,5	G ←	Y ← -	-	- -			-	- -	-
Ø2	6,7,8	R	R R	G	Y R			R	R R	R
Ø3										
Ø4	12,13,14	R	R R	R	R R			G	Y R	R
Ø5										
Ø6	1,2,3,4,5	R	R R	R	R R			R	R R	R
Ø7										
Ø8	9,10,11	R	R R	R	R R			R	R R	R
Ø2P	17,18	DW	DW DW	*	DW DW			DW	DW DW	
Ø4P	15,16	DW	DW DW	DW	DW DW			*	DW DW	
Ø6P	21, 22	DW	DW DW	DW	DW DW			DW	DW DW	
Ø8P	19,20	DW	DW DW	DW	DW DW			DW	DW DW	

RING 2

	HEAD NUMBERS	Ø5 R/W	Ø5 CLEAR TO **	Ø6 R/W	Ø6 CLEAR TO **	Ø7 R/W	Ø7 CLEAR TO **	Ø8 R/W	Ø8 CLEAR TO **
Ø1	4,5	-	- -	-	- -			-	- -
Ø2	6,7,8	R	R R	R	R R			R	R R
Ø3									
Ø4	12,13,14	R	R R	R	R R			R	R R
Ø5									
Ø6	1,2,3,4,5	R	R R	G,G↓	Y R			R	R R
Ø7									
Ø8	9,10,11	R	R R	R	R R			G	Y R
Ø2P	17,18	DW	DW DW	DW	DW DW			DW	DW DW
Ø4P	15,16	DW	DW DW	DW	DW DW			DW	DW DW
Ø6P	21, 22	DW	DW DW	*	DW DW			DW	DW DW
Ø8P	19,20	DW	DW DW	DW	DW DW			*	DW DW

BARRIER

** CLEARANCE TO A PHASE IN CONFLICT WITH THIS PHASE ON (SEE CHART 1)

* WHEN CALLED, TIMED STEADY WALK, THEN FLASHING DON'T WALK, THEN GOES TO STEADY DON'T WALK

CHART 1

PHASE ON	NONCONFLICTING PHASE ALLOWED TO TIME CONCURRENTLY	PHASES IN CONFLICT WITH PHASE ON
Ø1	6	2,4,8
Ø2	6	1,4,8
Ø3		
Ø4	8	1,2,6
Ø5		
Ø6	1 OR 2	4,8
Ø7		
Ø8	4	1,2,6

DETECTOR LOGIC

DETECTOR NUMBER	AMPLIFIER CHANNEL NUMBER	DETECTOR OPERATION: CALLS AND EXTENDS	DETECTOR OPERATION: CALLS ONLY	DETECTOR OPERATION: EXTENDS ONLY	PHASE CALLED	PHASE EXTENDED	DETECTOR DISCONNECT PHASE	CALLING DELAY	EXTENSION STRETCH	SIZE	NUMBER OF TURNS
11	1	X			1	1				6X20	3
12	1	X			1	1				6X20	3
21	2	X			2	2				6X28	3
41	3	X			4	4		X		6X20	3
42	3	X			4	4		X		6X20	3
43	4	X			4	4		X		6X20	3
44	4	X			4	4		X		6X20	3
51	FUTURE									6X20	3
52	FUTURE									6X20	3
61	5	X			6	6				6X30	3
81	6	X			8	8		X		5X18	3
82	7	X			8	8				5X18	3

CONTROLLER LOGIC

PHASE NUMBER	PHASE LOCKING	DUAL ENTRY W / Ø	PHASE RECALL	PHASE ACTIVE
1		6		X
2	X	6	MIN.	X
3				
4		8		X
5				
6	X	2	MIN.	X
7				
8	X	4		X

OVERLAPS

O.L. "A" =
O.L. "B" =
O.L. "C" =
O.L. "D" =

N

TYPE OF INTERCONNECT	
NONE	
TBC	
CLOSED LOOP	X
HARDWIRE	
TONE (FREQ)	
FIBER OPTIC	

TYPE OF PRE-EMPT	
NONE	X
RAILROAD	
EMERGENCY VEHICLE	

TYPE OF LIGHTING	
NONE	
IN TRAFFIC CONTROL CABINET	X
IN SEPARATE CONTROL CABINET	

GENERAL NOTES:

1. ANY ACTUATED PHASE FOR WHICH THERE IS NO CALL SHALL BE SKIPPED.
2. WHEN ONE PHASE IS ON ALONE, ANY NONCONFLICTING PHASE MAY START TIMING CONCURRENTLY WITHOUT A CLEARANCE INTERVAL. (SEE CHART 1 AT LEFT.)
3. IF ANY OPPOSING THRU PHASES ARE TIMING CONCURRENTLY, THEY SHALL TERMINATE TOGETHER DUE TO PERMISSIVE LEFT TURN CONFLICT.
4. MASTER CONTROLLER AT THE INTERSECTION OF STH 181/TOWER AVENUE.

STH 181 & TOWER AVENUE
CITY OF MILWAUKEE
MILWAUKEE COUNTY

SIGNAL NO. M 154

CONTROLLER TYPE: EPAC

DATE 7/07

FILE NAME : s:\@sai\051--100\089\099\micros\design\0873\024322_ph.dgn PLOT DATE : 7/30/2007 PLOT BY : $$...plotuser...$$ PLOT NAME : PLOT SCALE : $$.....plotscale.....$$ WISDOT/CADDS SHEET 42

PROJECT ID:	2140-08-73
INTERSECTION:	STH 181(N 76TH ST.) & TOWER AVENUE

Signal Wire Color Coding	BLK - black	RED - red	GRN - green
	WHT - white	BLU - blue	ORG - orange

CB1 TO	JUMPER	# OF COND.	HEAD NO.	PHASE	SIGNAL INDICATION WIRE COLOR								PED BUTTON	OTHER
					RED	YELLOW	GREEN	<RED	<YELLOW>	<GREEN	D/WALK	WALK		
SB1		12	6	2	RED	ORG	GRN							
			19	8							BLK	BLU		
			BUTTON	8									WHT/BLK	
SB2		12	5	6	RED	ORG	GRN							
				1					BLK	BLU				
			BUTTON	8									WHT/BLK	
SB3		12	2	6	RED	ORG				GRN				
SB4		12	3	6	RED	ORG	GRN							
			20	8							BLK	BLU		
			BUTTON	8									WHT/BLK	
SB5		12	13	4	RED	ORG	GRN							
			9	8	RED/BLK	ORG/BLK	GRN/BLK							
			21	6							BLK	BLU		
			BUTTON	6									WHT/BLK	
SB6		12	14	4	RED	ORG	GRN							
			22	6							BLK	BLU		
			BUTTON	6									WHT/BLK	
SB7		12	1	6	RED	ORG	GRN							
			15	4							BLK	BLU		
			BUTTON	4									WHT/BLK	
SB8		12	4	6	RED	ORG	GRN							
				1					BLK	BLU				
			7	2	RED/BLK	ORG/BLK	GRN/BLK							
SB9		12	8	2	RED	ORG	GRN							
			16	4							BLK	BLU		
			BUTTON	4									WHT/BLK	
SB10		12	12	4	RED	ORG	GRN							
			10	8	RED/BLK	ORG/BLK	GRN/BLK							
			17	2							BLK	BLU		
			BUTTON	2									WHT/BLK	
SB11		12	11	8	RED	ORG	GRN							
			18	2							BLK	BLU		
			BUTTON	2									WHT/BLK	

Equipment grounding conductor 10 AWG Green XLP	
From	To
CB1	SB1
SB1	SB2
SB2	SB3
SB3	SB4
SB4	SB5
SB5	SB6
SB6	SB7
SB7	SB8
SB8	SB9
SB9	SB10
SB10	SB11
SB11	CB1

Pull Box Bonding Jumper 10 AWG Green XLP	
From	To
SB1	PB1
SB2	PB3
SB3	PB4
SB4	PB5
SB5	PB6
SB7	PB7
SB8	PB9
SB9	PB11
SB10	PB12
SB11	PB14

Lighting UF 12 AWG w/ground	
From	To
CB1	SB2
SB2	SB6
CB1	SB11
SB11	SB8

*Use the white conductor in the signal cable as the grounded conductor for all traffic signal indications.

*Ensure the grounded conductor in the feeder cable and the pole cables are both 18" longer than the ungrounded conductors.

*At the signal bases, connect one terminal from the pedestrian push buttons to the color indicated in the chart. Connect the other terminal to the grounded conductor.

"Other" column may include shadow box sign

TRAFFIC CONTROL SIGNAL

STH 181 & TOWER AVENUE
CITY OF MILWAUKEE
MILWAUKEE COUNTY

SIGNAL NO. M 154 SCALE 0 20

DISTRICT CONTACT: JAH
DESIGNED BY: STRAND ASSOCIATES INC.

PAGE 4 OF 4

2

LEGEND

- TRAFFIC SIGNAL CONTROLLER AND BASE
- TRAFFIC SIGNAL HEAD, PEDESTAL MOUNTED, TYPE 1 BASE
- (XX) TRAFFIC SIGNAL HEAD, MAST ARM MOUNTED, TYPE 2 BASE
- B PEDESTRIAN HEAD WITH PUSH BUTTON
- LUMINAIRE
- PULL BOX, 24" X 42"
- PULL BOX, 24" X 36"
- PULL BOX, 18" X 24"
- PULL BOX, 12" X 24"

NOTES

1. CONTRACTOR SHALL REMOVE LOOP WIRE FROM ABANDONED LOOPS.

N

PB15 ABANDON

PB2 PB1 SB1

PB14 SB10

SERVITE DRIVE

11+00'D'

PB3 SB2

PB4 SB3

STH 181/ 76TH ST

203+00 204+00 205+00 PB13 PB12 SB9 206+00 207+00 208+00

12+00'D'

SB4 PB5

PB11 SB8

SB7 PB10

DEAN ROAD

13+00'D'

15' SB5 PB6

CB1

SB6 PB9

PB8

PB7

ABANDON

14+0

NOTE: GRAY SHADED ITEMS ARE TO REMAIN.
BOLD REPRESENTS ITEMS TO BE REMOVED.

TRAFFIC CONTROL SIGNAL
STH 181 (N 76TH STREET) &
SERVITE DRIVE/DEAN ROAD
CITY OF MILWAUKEE
MILWAUKEE COUNTY

SIGNAL NO. M 145 SCALE 0 20

DISTRICT CONTACT: JAH
DESIGNED BY: STRAND ASSOCIATES INC

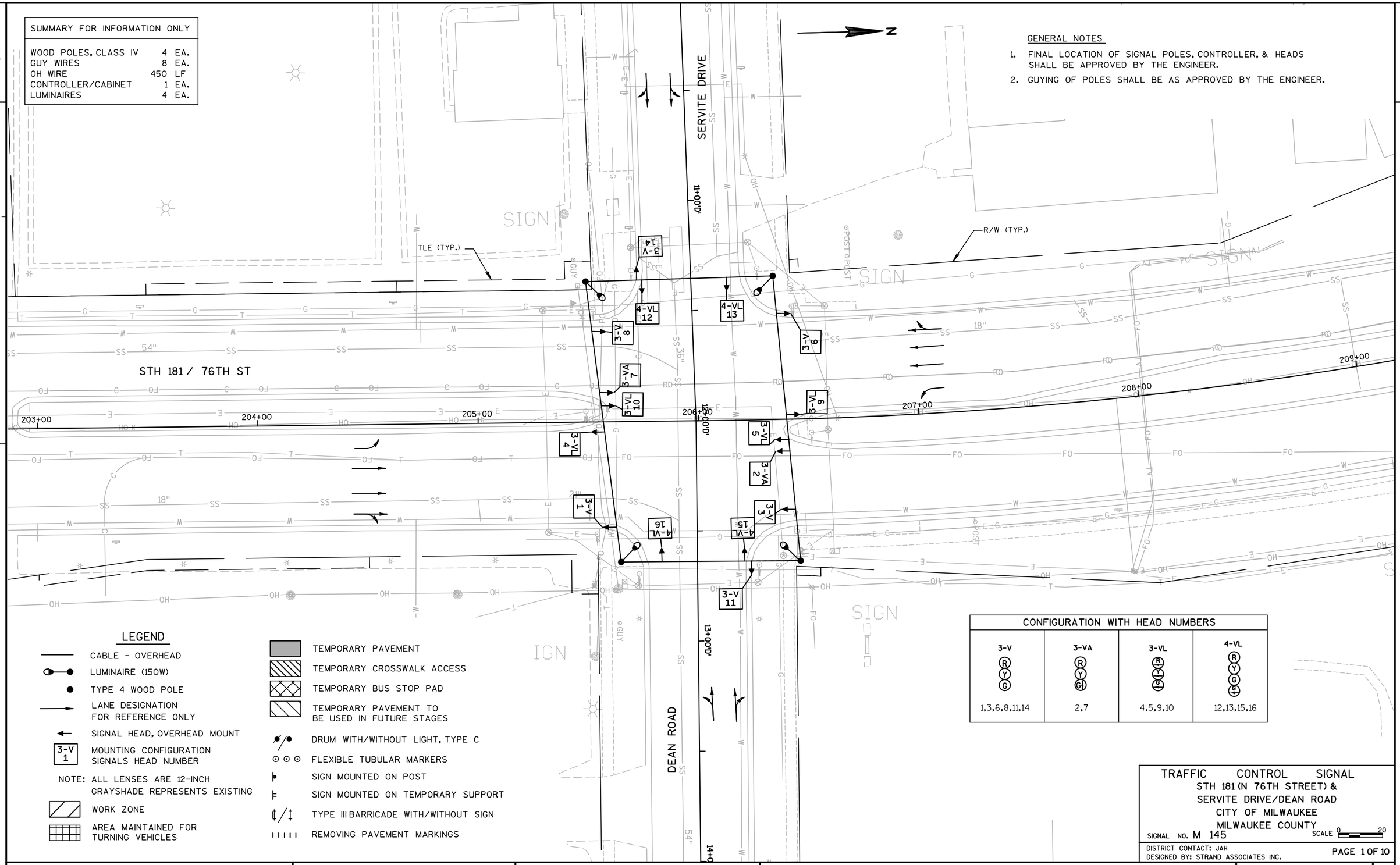
PAGE 1 OF 1

PROJECT NO: 2140-08-73	HWY: STH 181	COUNTY: MILWAUKEE	TRAFFIC SIGNAL REMOVAL PLAN	SHEET 257	E

SUMMARY FOR INFORMATION ONLY	
WOOD POLES, CLASS IV	4 EA.
GUY WIRES	8 EA.
OH WIRE	450 LF
CONTROLLER/CABINET	1 EA.
LUMINAIRES	4 EA.

GENERAL NOTES

1. FINAL LOCATION OF SIGNAL POLES, CONTROLLER, & HEADS SHALL BE APPROVED BY THE ENGINEER.
2. GUYING OF POLES SHALL BE AS APPROVED BY THE ENGINEER.



LEGEND

- CABLE - OVERHEAD
- LUMINAIRE (150W)
- TYPE 4 WOOD POLE
- LANE DESIGNATION FOR REFERENCE ONLY
- SIGNAL HEAD, OVERHEAD MOUNT
- 3-V 1 — MOUNTING CONFIGURATION SIGNALS HEAD NUMBER
- NOTE: ALL LENSES ARE 12-INCH GRAYSHADE REPRESENTS EXISTING
- WORK ZONE
- AREA MAINTAINED FOR TURNING VEHICLES
- TEMPORARY PAVEMENT
- TEMPORARY CROSSWALK ACCESS
- TEMPORARY BUS STOP PAD
- TEMPORARY PAVEMENT TO BE USED IN FUTURE STAGES
- DRUM WITH/WITHOUT LIGHT, TYPE C
- FLEXIBLE TUBULAR MARKERS
- SIGN MOUNTED ON POST
- SIGN MOUNTED ON TEMPORARY SUPPORT
- TYPE III BARRICADE WITH/WITHOUT SIGN
- REMOVING PAVEMENT MARKINGS

CONFIGURATION WITH HEAD NUMBERS			
3-V (R Y G)	3-VA (R Y G)	3-VL (R Y G)	4-VL (R Y G G)
1,3,6,8,11,14	2,7	4,5,9,10	12,13,15,16

TRAFFIC CONTROL SIGNAL
STH 181 (N 76TH STREET) &
SERVITE DRIVE/DEAN ROAD
CITY OF MILWAUKEE
MILWAUKEE COUNTY
SIGNAL NO. M 145
SCALE 0 20
DISTRICT CONTACT: JAH
DESIGNED BY: STRAND ASSOCIATES INC.
PAGE 1 OF 10

PROJECT NO: 2140-08-73	HWY: STH 181	COUNTY: MILWAUKEE	TEMPORARY SIGNAL PLAN - PRE-STAGE 1	SHEET 258	E

2

N

GENERAL NOTES

1. FINAL LOCATION OF SIGNAL POLES, CONTROLLER, & HEADS SHALL BE APPROVED BY THE ENGINEER.
2. GUYING OF POLES SHALL BE AS APPROVED BY THE ENGINEER.

SERVITE DRIVE

STH 181 / 76TH ST

DEAN ROAD

TLE (TYP.)

R/W (TYP.)

203+00 204+00 205+00 206+00 207+00 208+00 209+00

11+00'D' 13+00'D' 14+00'D'

3-V 8 | 4-VL 12 | 3-VA 7 | 3-VL 10 | 4-VL 13 | 3-V 14 | 3-V 6 | 3-VL 9 | 3-VL 4 | 3-V 1 | 4-VL 16 | 4-VL 15 | 3-VL 5 | 3-VA 2 | 3-V 3 | 3-V 11

LEGEND

- CABLE - OVERHEAD
- LUMINAIRE (150W)
- TYPE 4 WOOD POLE
- LANE DESIGNATION FOR REFERENCE ONLY
- SIGNAL HEAD, OVERHEAD MOUNT
- 3-V 1 MOUNTING CONFIGURATION SIGNALS HEAD NUMBER
- NOTE: ALL LENSES ARE 12-INCH GRAYSHADE REPRESENTS EXISTING
- WORK ZONE
- AREA MAINTAINED FOR TURNING VEHICLES
- TEMPORARY PAVEMENT
- TEMPORARY CROSSWALK ACCESS
- TEMPORARY BUS STOP PAD
- TEMPORARY PAVEMENT TO BE USED IN FUTURE STAGES
- DRUM WITH/WITHOUT LIGHT, TYPE C
- FLEXIBLE TUBULAR MARKERS
- SIGN MOUNTED ON POST
- SIGN MOUNTED ON TEMPORARY SUPPORT
- TYPE III BARRICADE WITH/WITHOUT SIGN
- REMOVING PAVEMENT MARKINGS

CONFIGURATION WITH HEAD NUMBERS			
3-V (R Y G)	3-VA (R Y G)	3-VL (R Y G)	4-VL (R Y G G)
1,3,6,8,11,14	2,7	4,5,9,10	12,13,15,16

TRAFFIC CONTROL SIGNAL
STH 181 (N 76TH STREET) &
SERVITE DRIVE/DEAN ROAD
CITY OF MILWAUKEE
MILWAUKEE COUNTY
SIGNAL NO. M 145
SCALE 0 20
DISTRICT CONTACT: JAH
DESIGNED BY: STRAND ASSOCIATES INC.
PAGE 2 OF 10

PROJECT NO: 2140-08-73	HWY: STH 181	COUNTY: MILWAUKEE	TEMPORARY SIGNAL PLAN - STAGE 1	SHEET 259	E

GENERAL NOTES

1. FINAL LOCATION OF SIGNAL POLES, CONTROLLER, & HEADS SHALL BE APPROVED BY THE ENGINEER.
2. GUYING OF POLES SHALL BE AS APPROVED BY THE ENGINEER.

N

STH 181 / 76TH ST

SERVITE DRIVE

DEAN ROAD

TLE (TYP.)

R/W (TYP.)

11+00'

12+00'

13+00'

14+00'

3-V 14
4-VL 12
4-VL 13
3-V 8
3-VA 7
5-VL 4
3-VL 10
3-V 1
3-VL 5
3-VA 2
3-V 3
3-VL 9
4-VL 16
4-VL 15
3-V 11

203+00 204+00 205+00 206+00 207+00 208+00 209+00

LEGEND

- CABLE - OVERHEAD
- LUMINAIRE (150W)
- TYPE 4 WOOD POLE
- LANE DESIGNATION FOR REFERENCE ONLY
- SIGNAL HEAD, OVERHEAD MOUNT
- 3-V 1 — MOUNTING CONFIGURATION SIGNALS HEAD NUMBER
- NOTE: ALL LENSES ARE 12-INCH GRAYSHADE REPRESENTS EXISTING
- WORK ZONE
- AREA MAINTAINED FOR TURNING VEHICLES
- TEMPORARY PAVEMENT
- TEMPORARY CROSSWALK ACCESS
- TEMPORARY BUS STOP PAD
- TEMPORARY PAVEMENT TO BE USED IN FUTURE STAGES
- DRUM WITH/WITHOUT LIGHT, TYPE C
- FLEXIBLE TUBULAR MARKERS
- SIGN MOUNTED ON POST
- SIGN MOUNTED ON TEMPORARY SUPPORT
- TYPE III BARRICADE WITH/WITHOUT SIGN
- REMOVING PAVEMENT MARKINGS

CONFIGURATION WITH HEAD NUMBERS			
3-V (R, Y, G)	3-VA (R, Y, G)	3-VL (R, Y, G)	4-VL (R, Y, G, G)
1,3,6,8,11,14	2,7	4,5,9,10	12,13,15,16

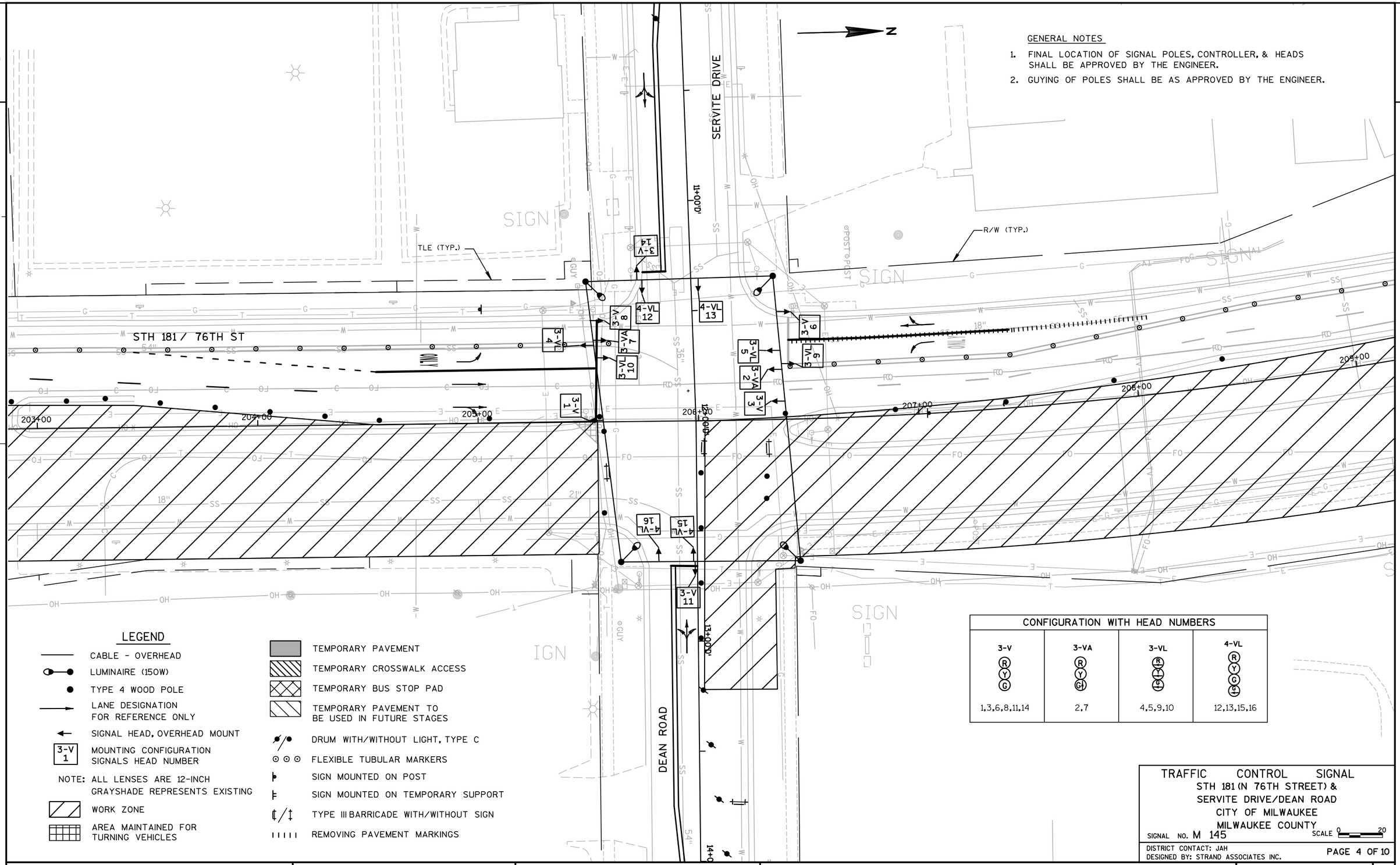
TRAFFIC CONTROL SIGNAL
STH 181 (N 76TH STREET) &
SERVITE DRIVE/DEAN ROAD
CITY OF MILWAUKEE
MILWAUKEE COUNTY
SIGNAL NO. M 145
SCALE 0 20
DISTRICT CONTACT: JAH
DESIGNED BY: STRAND ASSOCIATES INC.
PAGE 3 OF 10

PROJECT NO: 2140-08-73	HWY: STH 181	COUNTY: MILWAUKEE	TEMPORARY SIGNAL PLAN - STAGE 2 PHASE I	SHEET 260	E

2

GENERAL NOTES

1. FINAL LOCATION OF SIGNAL POLES, CONTROLLER, & HEADS SHALL BE APPROVED BY THE ENGINEER.
2. GUYING OF POLES SHALL BE AS APPROVED BY THE ENGINEER.



LEGEND

- CABLE - OVERHEAD
- LUMINAIRE (150W)
- TYPE 4 WOOD POLE
- LANE DESIGNATION FOR REFERENCE ONLY
- SIGNAL HEAD, OVERHEAD MOUNT
- 3-V 1 — MOUNTING CONFIGURATION SIGNALS HEAD NUMBER
- NOTE: ALL LENSES ARE 12-INCH GRAYSHADE REPRESENTS EXISTING
- WORK ZONE
- AREA MAINTAINED FOR TURNING VEHICLES
- TEMPORARY PAVEMENT
- TEMPORARY CROSSWALK ACCESS
- TEMPORARY BUS STOP PAD
- TEMPORARY PAVEMENT TO BE USED IN FUTURE STAGES
- DRUM WITH/WITHOUT LIGHT, TYPE C
- FLEXIBLE TUBULAR MARKERS
- SIGN MOUNTED ON POST
- SIGN MOUNTED ON TEMPORARY SUPPORT
- TYPE III BARRICADE WITH/WITHOUT SIGN
- REMOVING PAVEMENT MARKINGS

CONFIGURATION WITH HEAD NUMBERS			
3-V (R Y G)	3-VA (R Y G)	3-VL (R Y G)	4-VL (R Y G G)
1,3,6,8,11,14	2,7	4,5,9,10	12,13,15,16

TRAFFIC CONTROL SIGNAL
STH 181 (N 76TH STREET) &
SERVITE DRIVE/DEAN ROAD
CITY OF MILWAUKEE
MILWAUKEE COUNTY
SIGNAL NO. M 145
SCALE 0 20
DISTRICT CONTACT: JAH
DESIGNED BY: STRAND ASSOCIATES INC.
PAGE 4 OF 10

PROJECT NO: 2140-08-73	HWY: STH 181	COUNTY: MILWAUKEE	TEMPORARY SIGNAL PLAN - STAGE 2 PHASE II	SHEET 261	E

2

GENERAL NOTES

1. FINAL LOCATION OF SIGNAL POLES, CONTROLLER, & HEADS SHALL BE APPROVED BY THE ENGINEER.
2. GUYING OF POLES SHALL BE AS APPROVED BY THE ENGINEER.

N

SERVITE DRIVE

STH 181 / 76TH ST

DEAN ROAD

TLE (TYP.)

R/W (TYP.)

3-V 14

4-VL 13

4-VL 12

3-V 8

3-VA 7

3-VL 10

3-VL 4

3-V 1

4-VL 16

4-VL 15

3-VL 5

3-VA 2

3-V 3

3-V 9

3-V 6

3-V 11

203+00

204+00

205+00

206+00

207+00

208+00

209+00

13+00

14+00

LEGEND

- CABLE - OVERHEAD
- LUMINAIRE (150W)
- TYPE 4 WOOD POLE
- LANE DESIGNATION FOR REFERENCE ONLY
- SIGNAL HEAD, OVERHEAD MOUNT
- 3-V 1 MOUNTING CONFIGURATION SIGNALS HEAD NUMBER
- NOTE: ALL LENSES ARE 12-INCH GRAYSHADE REPRESENTS EXISTING
- WORK ZONE
- AREA MAINTAINED FOR TURNING VEHICLES
- TEMPORARY PAVEMENT
- TEMPORARY CROSSWALK ACCESS
- TEMPORARY BUS STOP PAD
- TEMPORARY PAVEMENT TO BE USED IN FUTURE STAGES
- DRUM WITH/WITHOUT LIGHT, TYPE C
- FLEXIBLE TUBULAR MARKERS
- SIGN MOUNTED ON POST
- SIGN MOUNTED ON TEMPORARY SUPPORT
- TYPE III BARRICADE WITH/WITHOUT SIGN
- REMOVING PAVEMENT MARKINGS

CONFIGURATION WITH HEAD NUMBERS			
3-V (R Y G)	3-VA (R Y G)	3-VL (R Y G)	4-VL (R Y G G)
1,3,6,8,11,14	2,7	4,5,9,10	12,13,15,16

TRAFFIC CONTROL SIGNAL
STH 181 (N 76TH STREET) &
SERVITE DRIVE/DEAN ROAD
CITY OF MILWAUKEE
MILWAUKEE COUNTY
SIGNAL NO. M 145
SCALE 0 20

DISTRICT CONTACT: JAH
DESIGNED BY: STRAND ASSOCIATES INC.

PAGE 5 OF 10

PROJECT NO: 2140-08-73	HWY: STH 181	COUNTY: MILWAUKEE	TEMPORARY SIGNAL PLAN - STAGE 3 PHASE I	SHEET 262	E

FILE NAME : s:\@sai\051--100\089\099\micros\design\0873\024414_sp.dgn PLOT DATE : 7/30/2007 PLOT BY : $$...plotuser...$$ PLOT NAME : PLOT SCALE : $$.....plotscale.....$$ WISDOT/CADDS SHEET 42

2

GENERAL NOTES

1. FINAL LOCATION OF SIGNAL POLES, CONTROLLER, & HEADS SHALL BE APPROVED BY THE ENGINEER.
2. GUYING OF POLES SHALL BE AS APPROVED BY THE ENGINEER.

N

SERVITE DRIVE

STH 181 / 76TH ST

DEAN ROAD

TLE (TYP.)

R/W (TYP.)

11+00.0'

12+00.0'

13+00.0'

14+0

3-V 14

4-VL 13

4-VL 12

3-V 8

3-VA 7

3-VL 10

3-VL 4

3-V 1

4-VL 16

4-VL 15

3-V 3

3-VL 5

3-VA 2

3-V 6

3-VL 9

3-V 11

203+00

204+00

205+00

206+00

207+00

208+00

209+00

LEGEND

- CABLE - OVERHEAD
- LUMINAIRE (150W)
- TYPE 4 WOOD POLE
- LANE DESIGNATION FOR REFERENCE ONLY
- SIGNAL HEAD, OVERHEAD MOUNT
- 3-V 1 — MOUNTING CONFIGURATION SIGNALS HEAD NUMBER
- NOTE: ALL LENSES ARE 12-INCH GRAYSHADE REPRESENTS EXISTING
- WORK ZONE
- AREA MAINTAINED FOR TURNING VEHICLES
- TEMPORARY PAVEMENT
- TEMPORARY CROSSWALK ACCESS
- TEMPORARY BUS STOP PAD
- TEMPORARY PAVEMENT TO BE USED IN FUTURE STAGES
- DRUM WITH/WITHOUT LIGHT, TYPE C
- FLEXIBLE TUBULAR MARKERS
- SIGN MOUNTED ON POST
- SIGN MOUNTED ON TEMPORARY SUPPORT
- TYPE III BARRICADE WITH/WITHOUT SIGN
- REMOVING PAVEMENT MARKINGS

CONFIGURATION WITH HEAD NUMBERS			
3-V (R Y G)	3-VA (R Y G)	3-VL (R Y G)	4-VL (R Y G G)
1,3,6,8,11,14	2,7	4,5,9,10	12,13,15,16

TRAFFIC CONTROL SIGNAL
STH 181 (N 76TH STREET) &
SERVITE DRIVE/DEAN ROAD
CITY OF MILWAUKEE
MILWAUKEE COUNTY

SIGNAL NO. M 145

SCALE 0 20

DISTRICT CONTACT: JAH
DESIGNED BY: STRAND ASSOCIATES INC.

PAGE 6 OF 10

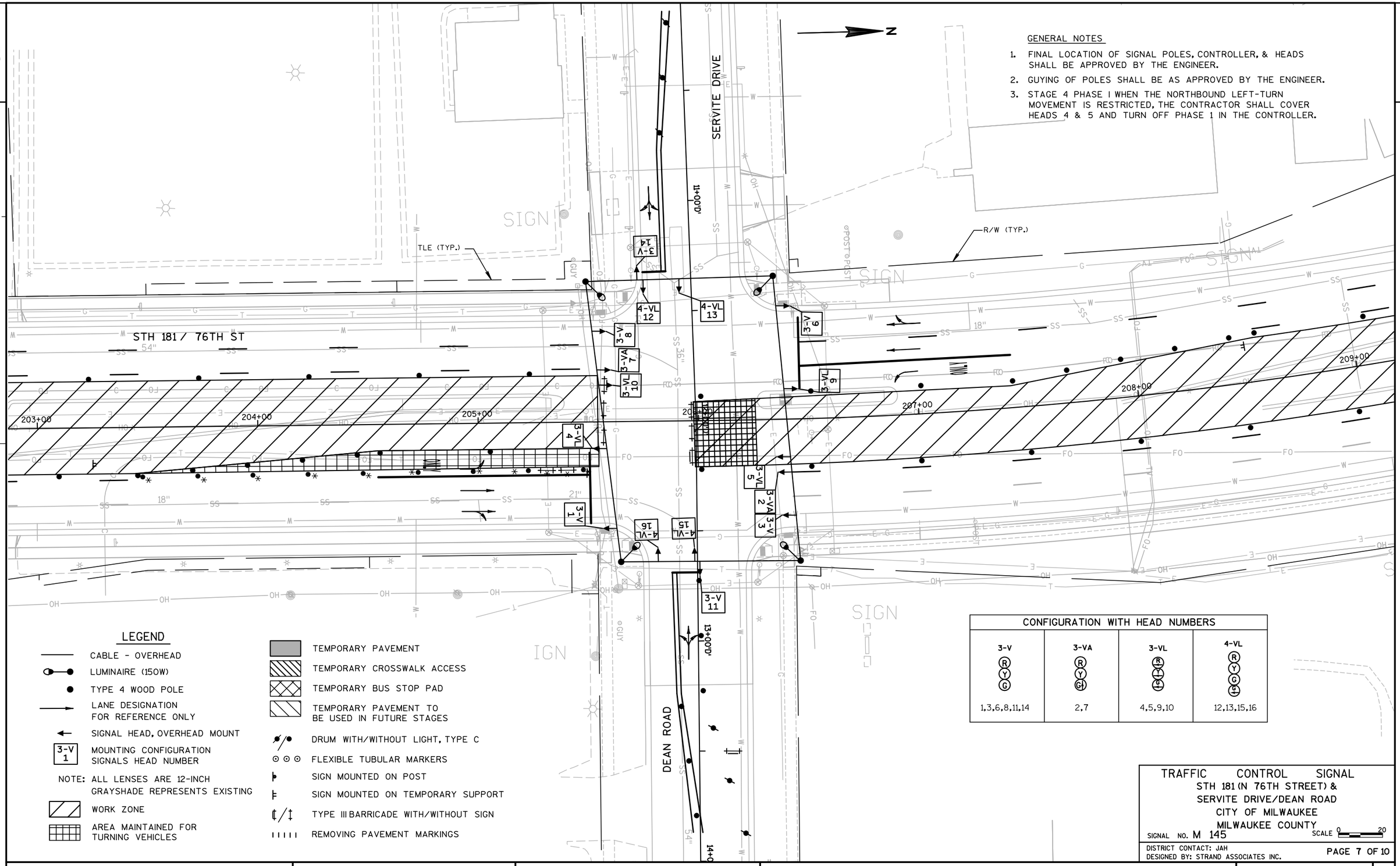
PROJECT NO: 2140-08-73	HWY: STH 181	COUNTY: MILWAUKEE	TEMPORARY SIGNAL PLAN - STAGE 3 PHASE II	SHEET 263	E

FILE NAME : s:\@sai\051--100\089\099\micros\design\0873\024415_sp.dgn PLOT DATE : 7/30/2007 PLOT BY : $$...plotuser...$$ PLOT NAME : PLOT SCALE : $$.....plotscale.....$$ WISDOT/CADDS SHEET 42

2

GENERAL NOTES

1. FINAL LOCATION OF SIGNAL POLES, CONTROLLER, & HEADS SHALL BE APPROVED BY THE ENGINEER.
2. GUYING OF POLES SHALL BE AS APPROVED BY THE ENGINEER.
3. STAGE 4 PHASE I WHEN THE NORTHBOUND LEFT-TURN MOVEMENT IS RESTRICTED, THE CONTRACTOR SHALL COVER HEADS 4 & 5 AND TURN OFF PHASE 1 IN THE CONTROLLER.



LEGEND

- CABLE - OVERHEAD
- LUMINAIRE (150W)
- TYPE 4 WOOD POLE
- LANE DESIGNATION FOR REFERENCE ONLY
- SIGNAL HEAD, OVERHEAD MOUNT
- 3-V 1 — MOUNTING CONFIGURATION SIGNALS HEAD NUMBER
- NOTE: ALL LENSES ARE 12-INCH GRAYSHADE REPRESENTS EXISTING
- WORK ZONE
- AREA MAINTAINED FOR TURNING VEHICLES
- TEMPORARY PAVEMENT
- TEMPORARY CROSSWALK ACCESS
- TEMPORARY BUS STOP PAD
- TEMPORARY PAVEMENT TO BE USED IN FUTURE STAGES
- DRUM WITH/WITHOUT LIGHT, TYPE C
- FLEXIBLE TUBULAR MARKERS
- SIGN MOUNTED ON POST
- SIGN MOUNTED ON TEMPORARY SUPPORT
- TYPE III BARRICADE WITH/WITHOUT SIGN
- REMOVING PAVEMENT MARKINGS

CONFIGURATION WITH HEAD NUMBERS			
3-V (R Y G)	3-VA (R Y G)	3-VL (R Y G)	4-VL (R Y G G)
1,3,6,8,11,14	2,7	4,5,9,10	12,13,15,16

TRAFFIC CONTROL SIGNAL
STH 181 (N 76TH STREET) &
SERVITE DRIVE/DEAN ROAD
CITY OF MILWAUKEE
MILWAUKEE COUNTY
SIGNAL NO. M 145
SCALE 0 20
DISTRICT CONTACT: JAH
DESIGNED BY: STRAND ASSOCIATES INC.
PAGE 7 OF 10

PROJECT NO: 2140-08-73	HWY: STH 181	COUNTY: MILWAUKEE	TEMPORARY SIGNAL PLAN - STAGE 4 PHASE I	SHEET 264	E

FILE NAME : s:\@sai\051--100\089\099\micros\design\0873\024416_sp.dgn PLOT DATE : 7/30/2007 PLOT BY : $$...plotuser...$$ PLOT NAME : PLOT SCALE : $$.....plotscale.....$$ WISDOT/CADDS SHEET 42

2

GENERAL NOTES

1. FINAL LOCATION OF SIGNAL POLES, CONTROLLER, & HEADS SHALL BE APPROVED BY THE ENGINEER.
2. GUYING OF POLES SHALL BE AS APPROVED BY THE ENGINEER.
3. STAGE 4 PHASE II WHEN THE NORTHBOUND LEFT-TURN MOVEMENT IS RESTRICTED, THE CONTRACTOR SHALL COVER HEADS 4 & 5 AND TURN OFF PHASE 1 IN THE CONTROLLER.

N

SERVITE DRIVE

STH 181 / 76TH ST

DEAN ROAD

TLE (TYP.)

R/W (TYP.)

3-V 14 · 4-VL 12 · 4-VL 13 · 3-V 6 · 3-V 8 · 3-VA 7 · 3-VL 10 · 3-VL 9 · 3-VL 5 · 3-VA 2 · 3-V 1 · 4-VL 16 · 4-VL 15 · 3-V 3 · 3-V 11

11+00.00'

12+00.00'

13+00.00'

14+00

203+00 · 204+00 · 205+00 · 206+00 · 207+00 · 208+00 · 209+00

LEGEND

- CABLE - OVERHEAD
- LUMINAIRE (150W)
- TYPE 4 WOOD POLE
- LANE DESIGNATION FOR REFERENCE ONLY
- SIGNAL HEAD, OVERHEAD MOUNT
- 3-V 1 — MOUNTING CONFIGURATION SIGNALS HEAD NUMBER
- NOTE: ALL LENSES ARE 12-INCH GRAYSHADE REPRESENTS EXISTING
- WORK ZONE
- AREA MAINTAINED FOR TURNING VEHICLES
- TEMPORARY PAVEMENT
- TEMPORARY CROSSWALK ACCESS
- TEMPORARY BUS STOP PAD
- TEMPORARY PAVEMENT TO BE USED IN FUTURE STAGES
- DRUM WITH/WITHOUT LIGHT, TYPE C
- FLEXIBLE TUBULAR MARKERS
- SIGN MOUNTED ON POST
- SIGN MOUNTED ON TEMPORARY SUPPORT
- TYPE III BARRICADE WITH/WITHOUT SIGN
- REMOVING PAVEMENT MARKINGS

CONFIGURATION WITH HEAD NUMBERS			
3-V (R Y G)	3-VA (R Y G)	3-VL (R Y G)	4-VL (R Y G G)
1,3,6,8,11,14	2,7	4,5,9,10	12,13,15,16

TRAFFIC CONTROL SIGNAL
STH 181 (N 76TH STREET) &
SERVITE DRIVE/DEAN ROAD
CITY OF MILWAUKEE
MILWAUKEE COUNTY
SIGNAL NO. M 145
SCALE 0 20
DISTRICT CONTACT: JAH
DESIGNED BY: STRAND ASSOCIATES INC.
PAGE 8 OF 10

PROJECT NO: 2140-08-73	HWY: STH 181	COUNTY: MILWAUKEE	TEMPORARY SIGNAL PLAN - STAGE 4 PHASE II	SHEET 265	E

2

N

GENERAL NOTES

1. FINAL LOCATION OF SIGNAL POLES, CONTROLLER, & HEADS SHALL BE APPROVED BY THE ENGINEER.
2. GUYING OF POLES SHALL BE AS APPROVED BY THE ENGINEER.

STH 181 / 76TH ST

SERVITE DRIVE

DEAN ROAD

TLE (TYP.)

R/W (TYP.)

11+00'

12+00'

13+00'

14+00'

203+00 204+00 205+00 206+00 207+00 208+00 209+00

3-V 1 | 3-V 2 | 3-V 3 | 3-V 4 | 3-V 5 | 3-V 6 | 3-V 8 | 3-V 11 | 3-V 14

3-VA 7

3-VL 10

4-VL 12 | 4-VL 13 | 4-VL 15 | 4-VL 16

LEGEND

- CABLE - OVERHEAD
- LUMINAIRE (150W)
- TYPE 4 WOOD POLE
- LANE DESIGNATION FOR REFERENCE ONLY
- SIGNAL HEAD, OVERHEAD MOUNT
- 3-V 1 — MOUNTING CONFIGURATION SIGNALS HEAD NUMBER
- NOTE: ALL LENSES ARE 12-INCH GRAYSHADE REPRESENTS EXISTING
- WORK ZONE
- AREA MAINTAINED FOR TURNING VEHICLES
- TEMPORARY PAVEMENT
- TEMPORARY CROSSWALK ACCESS
- TEMPORARY BUS STOP PAD
- TEMPORARY PAVEMENT TO BE USED IN FUTURE STAGES
- DRUM WITH/WITHOUT LIGHT, TYPE C
- FLEXIBLE TUBULAR MARKERS
- SIGN MOUNTED ON POST
- SIGN MOUNTED ON TEMPORARY SUPPORT
- TYPE III BARRICADE WITH/WITHOUT SIGN
- REMOVING PAVEMENT MARKINGS

CONFIGURATION WITH HEAD NUMBERS			
3-V (R Y G)	3-VA (R Y G)	3-VL (R Y G)	4-VL (R Y G G)
1,3,6,8,11,14	2,7	4,5,9,10	12,13,15,16

TRAFFIC CONTROL SIGNAL
STH 181 (N 76TH STREET) &
SERVITE DRIVE/DEAN ROAD
CITY OF MILWAUKEE
MILWAUKEE COUNTY
SIGNAL NO. M 145
SCALE 0 20
DISTRICT CONTACT: JAH
DESIGNED BY: STRAND ASSOCIATES INC.
PAGE 9 OF 10

PROJECT NO: 2140-08-73	HWY: STH 181	COUNTY: MILWAUKEE	TEMPORARY SIGNAL PLAN - STAGE 4 PHASE III	SHEET 266	E

SEQUENCE OF OPERATION

RING 1

	HEAD NUMBERS	Ø1 R/W	Ø1 ✳✳	Ø1 CLEAR TO	Ø2 R/W	Ø2 ✳✳	Ø2 CLEAR TO	Ø3 R/W	Ø3 ✳✳	Ø3 CLEAR TO	Ø4 R/W	Ø4 ✳✳	Ø4 CLEAR TO	FLASH
Ø1	4,5	G ←	Y ←	R ←	R ←	R ←	R ←	R ←	R ←	R ←	R ←	R ←	R ←	R ←
Ø2	6,7,8	R	R	R	G,G↓	Y	R	R	R	R	R	R	R	R
Ø3	14,15,16	R	R	R	R	R	R	G,G ←	Y	R	R	R	R	R
Ø4	11,12,13	R	R	R	R	R	R	R	R	R	G,G ←	Y	R	R
Ø5	9,10	R ←	R ←	R ←	R ←	R ←	R ←	R ←	R ←	R ←	R ←	R ←	R ←	R ←
Ø6	1,2,3	R	R	R	R	R	R	R	R	R	R	R	R	R
Ø7														
Ø8														
Ø2P														
Ø4P														
Ø6P														
Ø8P														

RING 2

	HEAD NUMBERS	Ø5 R/W	Ø5 ✳✳	Ø5 CLEAR TO	Ø6 R/W	Ø6 ✳✳	Ø6 CLEAR TO	Ø7 R/W	Ø7 ✳✳	Ø7 CLEAR TO	Ø8 R/W	Ø8 ✳✳	Ø8 CLEAR TO
Ø1	4,5	R ←	R ←	R ←	R ←	R ←	R ←						
Ø2	6,7,8	R	R	R	R	R	R						
Ø3	14,15,16	R	R	R	R	R	R						
Ø4	11,12,13	R	R	R	R	R	R						
Ø5	9,10	G ←	Y ←	R ←	R ←	R ←	R ←						
Ø6	1,2,3	R	R	R	G,G↓	Y	R						
Ø7													
Ø8													
Ø2P													
Ø4P													
Ø6P													
Ø8P													

BARRIER

** CLEARANCE TO A PHASE IN CONFLICT WITH THIS PHASE ON (SEE CHART 1)

N

CONTROLLER LOGIC

PHASE NUMBER	PHASE LOCKING	DUAL ENTRY W / Ø	PHASE RECALL	PHASE ACTIVE
1			MAX	X
2			MAX	X
3			MAX	X
4			MAX	X
5			MAX	X
6			MAX	X
7				
8				

OVERLAPS

O.L. "A" =
O.L. "B" =
O.L. "C" =
O.L. "D" =

SIGNAL PHASING NOTES

1. DURING STAGE 4 PHASE I & II WHEN THE NORTHBOUND LEFT-TURN MOVEMENT IS RESTRICTED, THE CONTRACTOR SHALL COVER HEADS 4 & 5 AND TURN OFF PHASE 1 IN THE CONTROLLER.

TYPE OF INTERCONNECT	
NONE	
TBC	X
CLOSED LOOP	
HARDWIRE	
TONE (FREQ)	
FIBER OPTIC	

TYPE OF PRE-EMPT	
NONE	X
RAILROAD	
EMERGENCY VEHICLE	

TYPE OF LIGHTING	
NONE	
IN TRAFFIC CONTROL CABINET	X
IN SEPARATE CONTROL CABINET	

GENERAL NOTES:

1. ANY ACTUATED PHASE FOR WHICH THERE IS NO CALL SHALL BE SKIPPED.
2. WHEN ONE PHASE IS ON ALONE, ANY NONCONFLICTING PHASE MAY START TIMING CONCURRENTLY WITHOUT A CLEARANCE INTERVAL. (SEE CHART 1 BELOW.)

CHART 1

PHASE ON	NONCONFLICTING PHASE ALLOWED TO TIME CONCURRENTLY	PHASES IN CONFLICT WITH PHASE ON
Ø1	5 OR 6	2,3,4
Ø2	5 OR 6	1,3,4
Ø3	NONE	1,2,4,5,6
Ø4	NONE	1,2,3,5,6
Ø5	1 OR 2	3,4,6
Ø6	1 OR 2	3,4,5
Ø7		
Ø8		

STH 181 & SERVITE DRIVE/DEAN ROAD
CITY OF MILWAUKEE
MILWAUKEE COUNTY

SIGNAL NO. M 145

CONTROLLER TYPE:

DATE 7/07

FILE NAME : s:\@sai\051--100\089\099\micros\design\0873\024419_ph.dgn PLOT DATE : 7/30/2007 PLOT BY : $$...plotuser...$$ PLOT NAME : PLOT SCALE : $$.....plotscale.....$$ WISDOT/CADDS SHEET 42

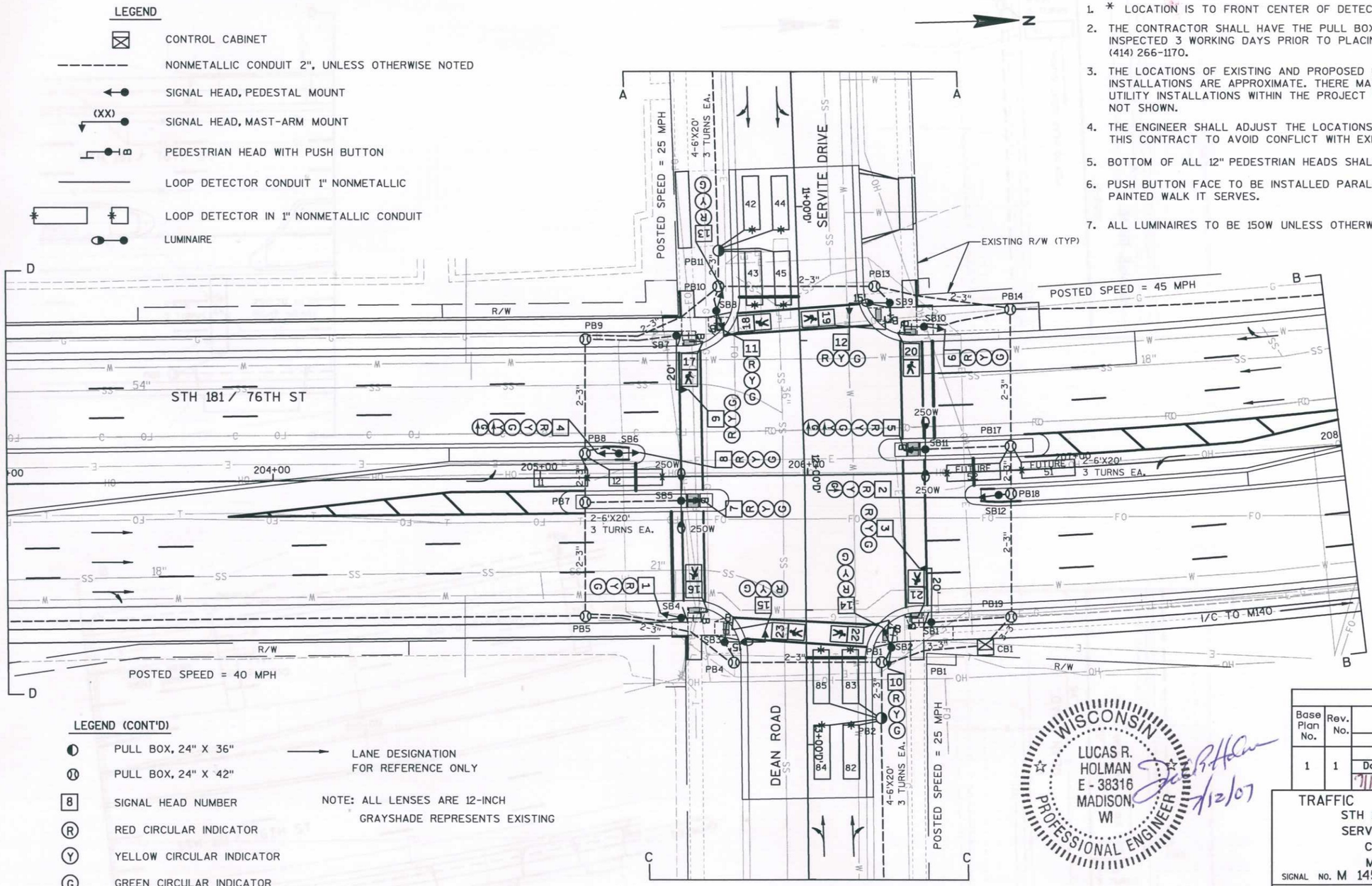
2

LEGEND

- CONTROL CABINET
- NONMETALLIC CONDUIT 2", UNLESS OTHERWISE NOTED
- SIGNAL HEAD, PEDESTAL MOUNT
- (XX) SIGNAL HEAD, MAST-ARM MOUNT
- PEDESTRIAN HEAD WITH PUSH BUTTON
- LOOP DETECTOR CONDUIT 1" NONMETALLIC
- LOOP DETECTOR IN 1" NONMETALLIC CONDUIT
- LUMINAIRE

CONSTRUCTION NOTES:

1. * LOCATION IS TO FRONT CENTER OF DETECTOR LOOP.
2. THE CONTRACTOR SHALL HAVE THE PULL BOXES AND CONDUIT RUNS INSPECTED 3 WORKING DAYS PRIOR TO PLACING SIGNAL CABLE INTO SYSTEM. (414) 266-1170.
3. THE LOCATIONS OF EXISTING AND PROPOSED UTILITY INSTALLATIONS ARE APPROXIMATE. THERE MAY BE OTHER UTILITY INSTALLATIONS WITHIN THE PROJECT WHICH ARE NOT SHOWN.
4. THE ENGINEER SHALL ADJUST THE LOCATIONS OF ITEMS UNDER THIS CONTRACT TO AVOID CONFLICT WITH EXISTING UTILITY FACILITIES.
5. BOTTOM OF ALL 12" PEDESTRIAN HEADS SHALL BE MOUNTED AT 10'.
6. PUSH BUTTON FACE TO BE INSTALLED PARALLEL TO THE PAINTED WALK IT SERVES.
7. ALL LUMINAIRES TO BE 150W UNLESS OTHERWISE NOTED.



LEGEND (CONT'D)

- PULL BOX, 24" X 36"
- PULL BOX, 24" X 42"
- 8 SIGNAL HEAD NUMBER
- (R) RED CIRCULAR INDICATOR
- (Y) YELLOW CIRCULAR INDICATOR
- (G) GREEN CIRCULAR INDICATOR
- YELLOW ARROW
- GREEN ARROW
- DON'T WALK INDICATOR 12" WALK INDICATOR 12"

LANE DESIGNATION FOR REFERENCE ONLY

NOTE: ALL LENSES ARE 12-INCH GRAYSHADE REPRESENTS EXISTING

WISCONSIN PROFESSIONAL ENGINEER
LUCAS R. HOLMAN
E - 38316
MADISON, WI
7/12/07

REVISIONS					
Base Plan No.	Rev. No.	NEW GEOMETRICS			Cont. Type
		APPROVALS			
		REGIONAL		CENTRAL OFFICE	
		Date	By	Date	By
1	1	7/16/07	TSDE		EPAC

6/01/96	REVISED TIMING
12/11/84	INSTALLED DETECTOR LOOP AND ARROWS NB LEFT TURN
05/28/81	DATE OF INITIAL INSTALLATION

TRAFFIC CONTROL SIGNAL
STH 181 (N 76TH STREET) &
SERVITE DRIVE/DEAN ROAD
CITY OF MILWAUKEE
MILWAUKEE COUNTY

SIGNAL NO. M 145 SCALE 0 20

WISCONSIN DEPARTMENT OF TRANSPORTATION

APPROVAL RECOMMENDED
Date 3/9/81 JOHN A. WHITE, DISTRICT TRAFFIC ENGINEER

APPROVED
Date 3/17/81 H. O. PRICE, STATE TRAFFIC ENGINEER

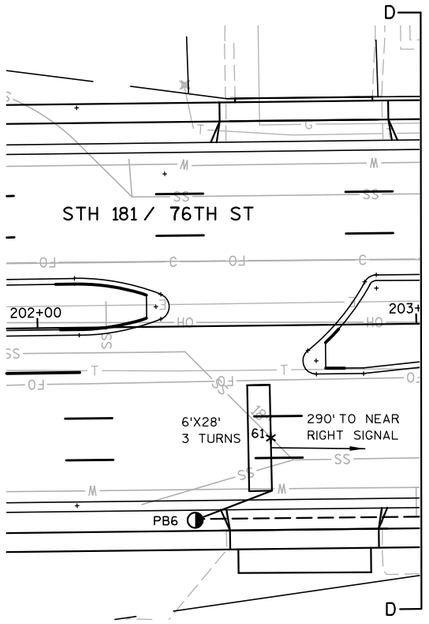
DISTRICT CONTACT: JAH
DESIGNED BY: STRAND ASSOCIATES INC

PAGE 1 OF 4

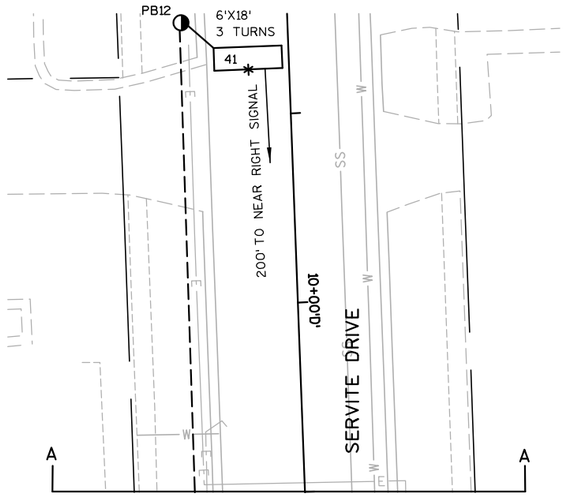
Dept 7-17-07

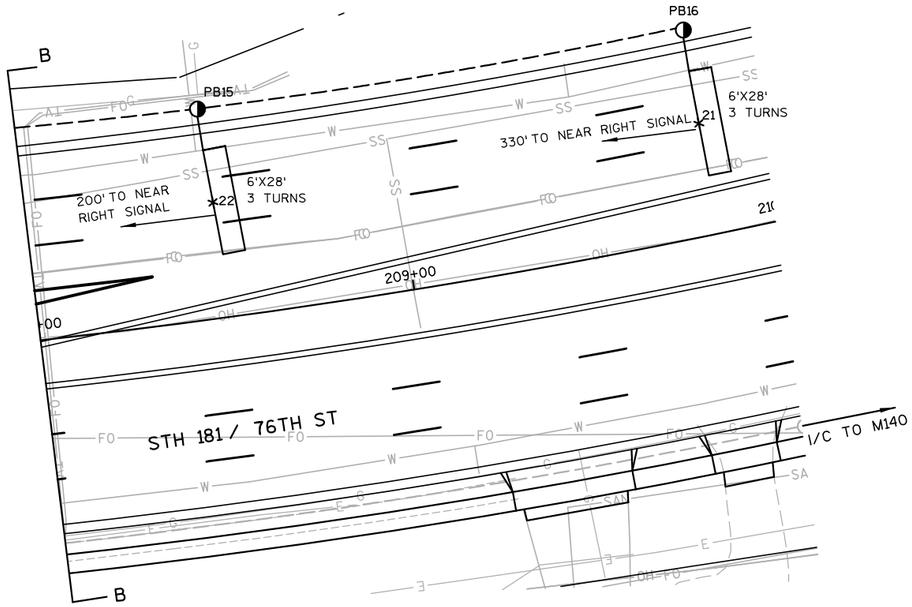
PROJECT NO: 2140-08-73	HWY: STH 181	COUNTY: MILWAUKEE	TRAFFIC SIGNAL PLAN	SHEET E

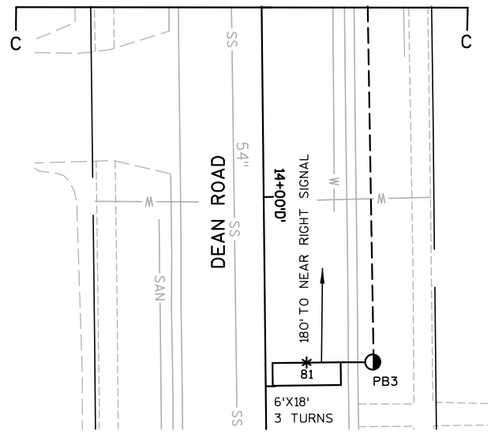
FILE NAME : S:\eSAI\051--100\089\099\Micros\DESIGN\0873\024420_sp.dgn PLOT DATE : 7/12/2007 PLOT BY : $$...plotuser...$$ PLOT NAME : PLOT SCALE : $$.....plotscale.....$$ WISDOT/CADDS SHEET 42











TRAFFIC CONTROL SIGNAL
STH 181 (N 76TH STREET) &
SERVITE DRIVE/DEAN ROAD
CITY OF MILWAUKEE
MILWAUKEE COUNTY

SIGNAL NO. M 145

SCALE 0 20

DISTRICT CONTACT: JAH
DESIGNED BY: STRAND ASSOCIATES INC

PAGE 2 OF 4

PROJECT NO: 2140-08-73	HWY: STH 181	COUNTY: MILWAUKEE	TRAFFIC SIGNAL PLAN	SHEET 269	E

2

SEQUENCE OF OPERATION

RING 1

	HEAD NUMBERS	Ø1 R/W	Ø1 **	Ø1 CLEAR TO	Ø2 R/W	Ø2 **	Ø2 CLEAR TO	Ø3 R/W	Ø3 **	Ø3 CLEAR TO	Ø4 R/W	Ø4 **	Ø4 CLEAR TO	FLASH
Ø1	4,5	G ←	Y ←	-	-	-	-				-	-	-	-
Ø2	6,7,8,9	R	R	R	G	Y	R				R	R	R	R
Ø3														
Ø4	13,14,15	R	R	R	R	R	R				G	Y	R	R
Ø5														
Ø6	1,2,3,4,5	R	R	R	R	R	R				R	R	R	R
Ø7														
Ø8	10,11,12	R	R	R	R	R	R				R	R	R	R
Ø2P	18,19	DW	DW	DW	*	DW	DW				DW	DW	DW	
Ø4P	16,17	DW	DW	DW	DW	DW	DW				*	DW	DW	
Ø6P	22,23	DW	DW	DW	DW	DW	DW				DW	DW	DW	
Ø8P	20,21	DW	DW	DW	DW	DW	DW				DW	DW	DW	

RING 2

	HEAD NUMBERS	Ø5 R/W	Ø5 **	Ø5 CLEAR TO	Ø6 R/W	Ø6 **	Ø6 CLEAR TO	Ø7 R/W	Ø7 **	Ø7 CLEAR TO	Ø8 R/W	Ø8 **	Ø8 CLEAR TO
Ø1	4,5				-	-	-				-	-	-
Ø2	6,7,8,9				R	R	R				R	R	R
Ø3													
Ø4	13,14,15				R	R	R				R	R	R
Ø5													
Ø6	1,2,3,4,5				G, G ←	Y	R				R	R	R
Ø7													
Ø8	10,11,12				R	R	R				G	Y	R
Ø2P	18,19				DW	DW	DW				DW	DW	DW
Ø4P	16,17				DW	DW	DW				DW	DW	DW
Ø6P	22,23				*	DW	DW				DW	DW	DW
Ø8P	20,21				DW	DW	DW				*	DW	DW

BARRIER

** CLEARANCE TO A PHASE IN CONFLICT WITH THIS PHASE ON (SEE CHART 1)

* WHEN CALLED, TIMED STEADY WALK, THEN FLASHING DON'T WALK, THEN GOES TO STEADY DON'T WALK

CHART 1

PHASE ON	NONCONFLICTING PHASE ALLOWED TO TIME CONCURRENTLY	PHASES IN CONFLICT WITH PHASE ON
Ø1	6	2,4,8
Ø2	6	1,4,8
Ø3		
Ø4	8	1,2,6
Ø5		
Ø6	1 OR 2	4,8
Ø7		
Ø8	4	1,2,6

DETECTOR LOGIC

DETECTOR NUMBER	AMPLIFIER CHANNEL NUMBER	DETECTOR OPERATION: CALLS AND EXTENDS	DETECTOR OPERATION: CALLS ONLY	DETECTOR OPERATION: EXTENDS ONLY	PHASE CALLED	PHASE EXTENDED	DETECTOR DISCONNECT PHASE	CALLING DELAY	EXTENSION STRETCH	SIZE	NUMBER OF TURNS
11	1	X			1	1				6X20	3
12	1	X			1	1				6X20	3
21	2	X			2	2				6X28	3
22	2	X			2	2				6X28	3
41	3			X		4			X	6X18	3
42	4	X			4	4		X		6X20	3
43	4	X			4	4		X		6X20	3
44	5	X			4	4		X		6X20	3
45	5	X			4	4		X		6X20	3
51	FUTURE									6X20	3
52	FUTURE									6X20	3
61	6	X			6	6				6X28	3
81	7			X		8			X	6X18	3
82	8	X			8	8		X		6X20	3
83	8	X			8	8		X		6X20	3
84	9	X			8	8		X		6X20	3
85	9	X			8	8		X		6X20	3

CONTROLLER LOGIC

PHASE NUMBER	PHASE LOCKING	DUAL ENTRY W / Ø	PHASE RECALL	PHASE ACTIVE
1		6		X
2	X	6	MIN.	X
3				
4		8		X
5				
6	X	2	MIN.	X
7				
8		4		X

OVERLAPS

O.L. "A" =
O.L. "B" =
O.L. "C" =
O.L. "D" =

N

TYPE OF INTERCONNECT	
NONE	
TBC	
CLOSED LOOP	X
HARDWIRE	
TONE (FREQ)	
FIBER OPTIC	

TYPE OF PRE-EMPT	
NONE	X
RAILROAD	
EMERGENCY VEHICLE	

TYPE OF LIGHTING	
NONE	
IN TRAFFIC CONTROL CABINET	X
IN SEPARATE CONTROL CABINET	

GENERAL NOTES:

1. ANY ACTUATED PHASE FOR WHICH THERE IS NO CALL SHALL BE SKIPPED.
2. WHEN ONE PHASE IS ON ALONE, ANY NONCONFLICTING PHASE MAY START TIMING CONCURRENTLY WITHOUT A CLEARANCE INTERVAL. (SEE CHART 1 AT LEFT.)
3. IF ANY OPPOSING THRU PHASES ARE TIMING CONCURRENTLY, THEY SHALL TERMINATE TOGETHER DUE TO PERMISSIVE LEFT TURN CONFLICT.

STH 181 & SERVITE DRIVE/DEAN ROAD
CITY OF MILWAUKEE
MILWAUKEE COUNTY

SIGNAL NO. M 145

CONTROLLER TYPE: EPAC

DATE 7/07

FILE NAME : s:\@sai\051--100\089\099\micros\design\0873\024422_ph.dgn PLOT DATE : 7/30/2007 PLOT BY : $$...plotuser...$$ PLOT NAME : PLOT SCALE : $$.....plotscale.....$$ WISDOT/CADDS SHEET 42

PROJECT ID:	2140-08-73
INTERSECTION:	STH 181 (N 76TH ST.) & DEAN ROAD

Signal Wire Color Coding	BLK - black	RED - red	GRN - green
	WHT - white	BLU - blue	ORG - orange

CB1 TO	JUMPER	# OF COND.	HEAD NO.	PHASE	SIGNAL INDICATION WIRE COLOR								PED BUTTON	OTHER
					RED	YELLOW	GREEN	<RED	<YELLOW>	<GREEN>	D/WALK	WALK		
SB1		12	3	6	RED	ORG	GRN							
			21	8							BLK	BLU		
			BUTTON	8									WHT/BLK	
SB2		12	14	4	RED	ORG	GRN							
			10	8	RED/BLK	ORG/BLK	GRN/BLK							
			22	6							BLK	BLU		
			BUTTON	6									WHT/BLK	
SB3		12	15	4	RED	ORG	GRN							
			23	6							BLK	BLU		
			BUTTON	6									WHT/BLK	
SB4		12	1	6	RED	ORG	GRN							
			16	4							BLK	BLU		
			BUTTON	4									WHT/BLK	
SB5		12	7	2	RED	ORG	GRN							
			BUTTON	4									WHT/BLK	
SB6		12	4	6	RED	ORG	GRN							
				1					BLK	BLU				
			8	2	RED/BLK	ORG/BLK	GRN/BLK							
SB7		12	9	2	RED	ORG	GRN							
			17	4							BLK	BLU		
			BUTTON	4									WHT/BLK	
SB8		12	13	4	RED	ORG	GRN							
			11	8	RED/BLK	ORG/BLK	GRN/BLK							
			18	2							BLK	BLU		
			BUTTON	2									WHT/BLK	
SB9		12	12	8	RED	ORG	GRN							
			19	2							BLK	BLU		
			BUTTON	2									WHT/BLK	
SB10		12	6	2	RED	ORG	GRN							
			20	8							BLK	BLU		
			BUTTON	8									WHT/BLK	
SB11		12	5	6	RED	ORG	GRN							
				1					BLK	BLU				
			BUTTON	8									WHT/BLK	
SB12		12	2	6	RED	ORG				GRN				

Equipment grounding conductor 10 AWG Green XLP	
From	To
CB1	SB2
SB2	SB3
SB3	SB4
SB4	SB5
SB5	SB6
SB6	SB7
SB7	SB8
SB8	SB9
SB9	SB10
SB10	SB11
SB11	SB12
SB12	SB1
SB1	CB1

Pull Box Bonding Jumper 10 AWG Green XLP	
From	To
SB2	PB1
SB3	PB4
SB4	PB5
SB5	PB7
SB6	PB8
SB7	PB9
SB8	PB10
SB9	PB13
SB10	PB14
SB11	PB17
SB12	PB18
CB1	PB19

Lighting UF 12 AWG w/ground	
From	To
CB1	SB3
SB3	SB5
CB1	SB11
SB11	SB9

*Use the white conductor in the signal cable as the grounded conductor for all traffic signal indications.

*Ensure the grounded conductor in the feeder cable and the pole cables are both 18" longer than the ungrounded conductors.

*At the signal bases, connect one terminal from the pedestrian push buttons to the color indicated in the chart. Connect the other terminal to the grounded conductor.

"Other" column may include shadow box sign

TRAFFIC CONTROL SIGNAL
STH 181 (N 76TH ST) &
SERVITE DRIVE/DEAN ROAD
CITY OF MILWAUKEE
MILWAUKEE COUNTY

SIGNAL NO. M 145

SCALE 0 20

DISTRICT CONTACT: JAH
DESIGNED BY: STRAND ASSOCIATES INC.

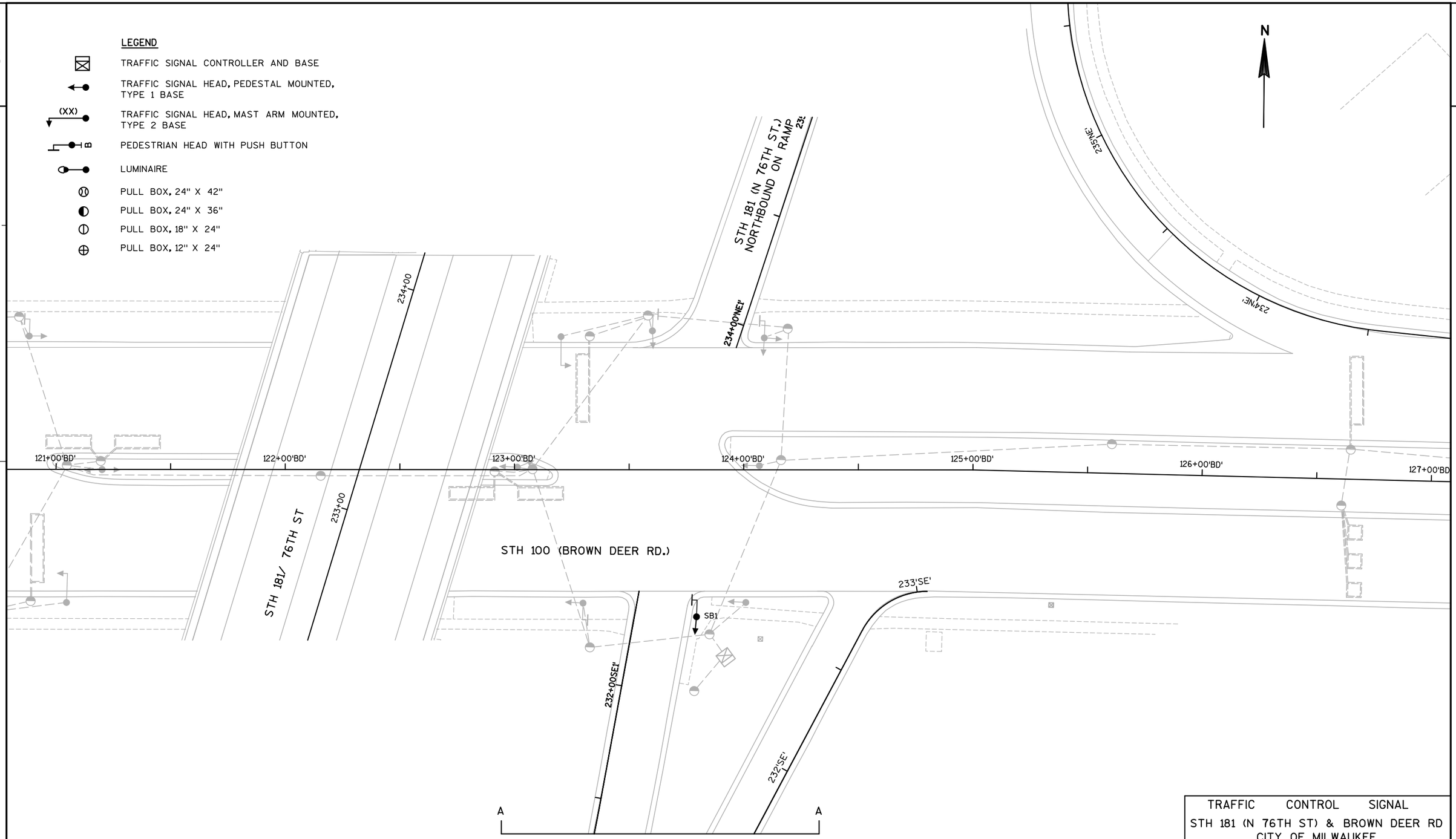
FILE NAME : s:\@sai\051--100\089\099\micros\design\0873\024423_cr.dgn PLOT DATE : 7/30/2007 PLOT BY : $$...plotuser...$$ PLOT NAME : PLOT SCALE : $$.....plotscale.....$$ WISDOT/CADDS SHEET 42

2

2

LEGEND

- TRAFFIC SIGNAL CONTROLLER AND BASE
- TRAFFIC SIGNAL HEAD, PEDESTAL MOUNTED, TYPE 1 BASE
- (XX) TRAFFIC SIGNAL HEAD, MAST ARM MOUNTED, TYPE 2 BASE
- PEDESTRIAN HEAD WITH PUSH BUTTON
- LUMINAIRE
- PULL BOX, 24" X 42"
- PULL BOX, 24" X 36"
- PULL BOX, 18" X 24"
- PULL BOX, 12" X 24"



NOTE: GRAY SHADED ITEMS ARE TO REMAIN.
BOLD REPRESENTS ITEMS TO BE REMOVED.

TRAFFIC CONTROL SIGNAL
STH 181 (N 76TH ST) & BROWN DEER RD
CITY OF MILWAUKEE
MILWAUKEE COUNTY
SIGNAL NO. M 140 SCALE 0 20
DISTRICT CONTACT: JAH
DESIGNED BY: STRAND ASSOCIATES INC
PAGE 1 OF 3

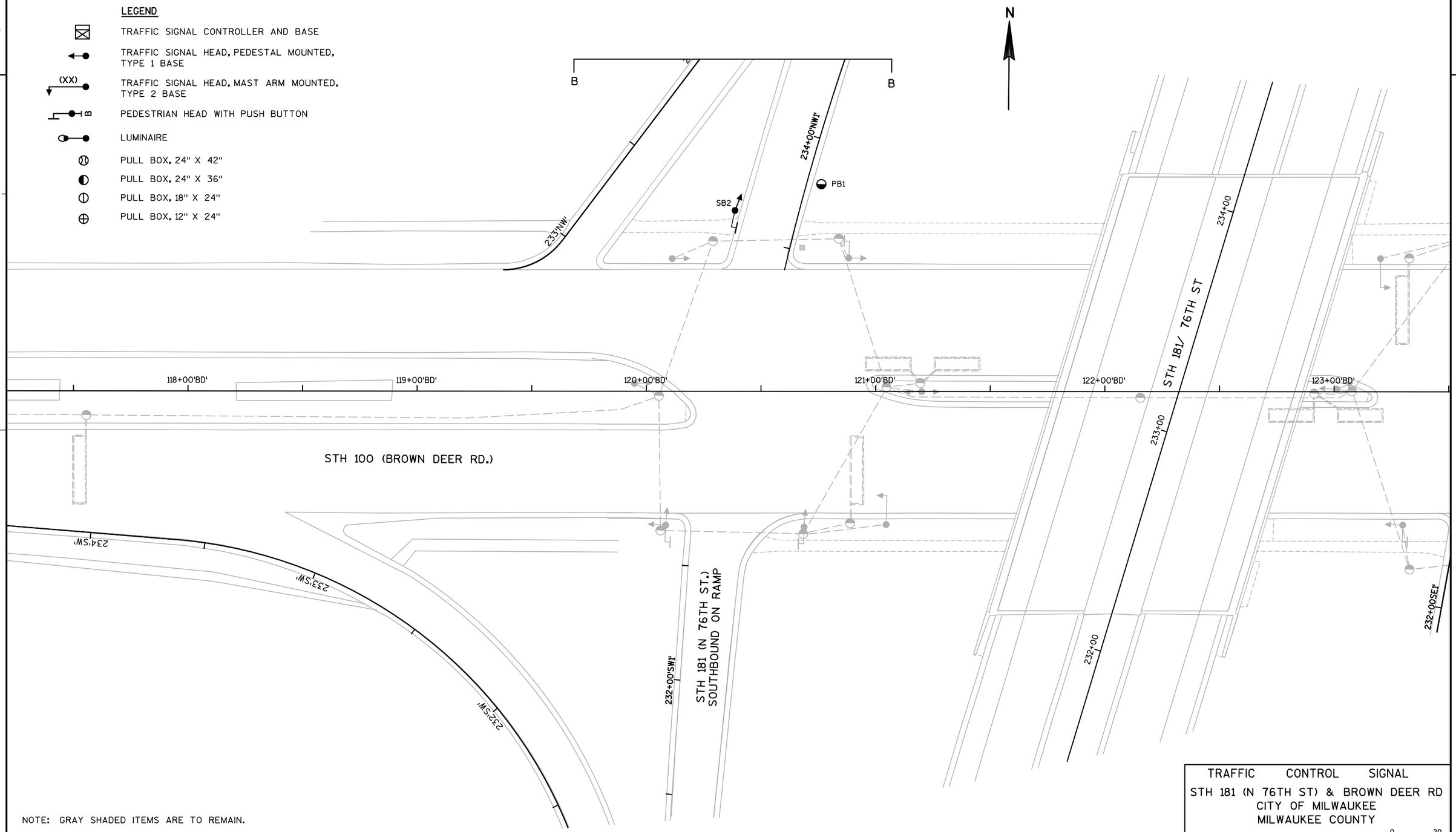
PROJECT NO: 2140-08-73	HWY: STH 181	COUNTY: MILWAUKEE	TRAFFIC SIGNAL REMOVAL PLAN	SHEET 272	E

2

2

LEGEND

- TRAFFIC SIGNAL CONTROLLER AND BASE
- TRAFFIC SIGNAL HEAD, PEDESTAL MOUNTED, TYPE 1 BASE
- (XX) TRAFFIC SIGNAL HEAD, MAST ARM MOUNTED, TYPE 2 BASE
- PEDESTRIAN HEAD WITH PUSH BUTTON
- LUMINAIRE
- PULL BOX, 24" X 42"
- PULL BOX, 24" X 36"
- PULL BOX, 18" X 24"
- PULL BOX, 12" X 24"



NOTE: GRAY SHADED ITEMS ARE TO REMAIN.
BOLD REPRESENTS ITEMS TO BE REMOVED.

TRAFFIC CONTROL SIGNAL

STH 181 (N 76TH ST) & BROWN DEER RD
CITY OF MILWAUKEE
MILWAUKEE COUNTY

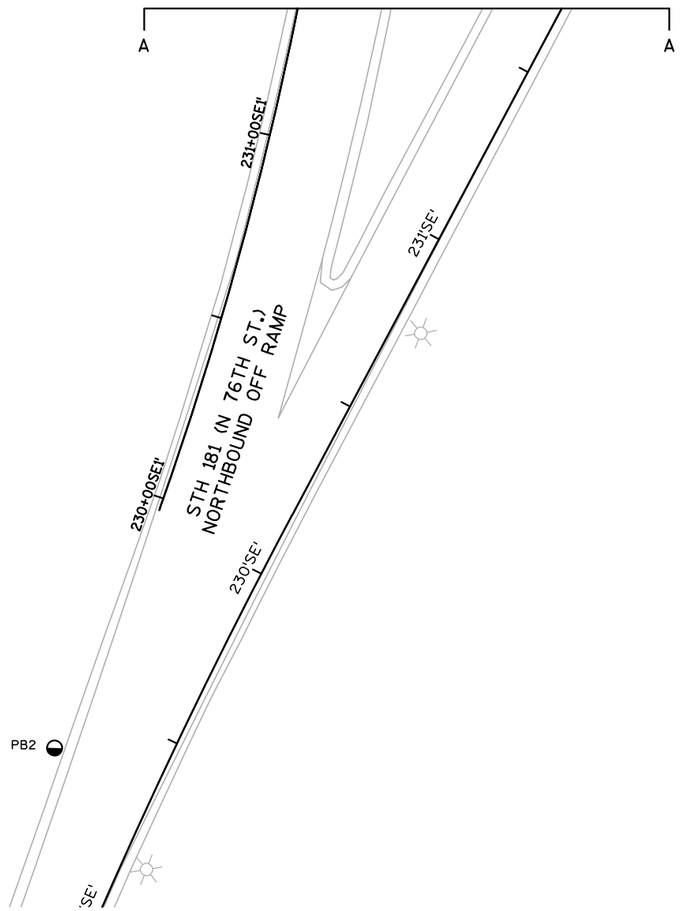
SIGNAL NO. M 140 SCALE 0 20

DISTRICT CONTACT: JAH
DESIGNED BY: STRAND ASSOCIATES INC

PAGE 2 OF 3

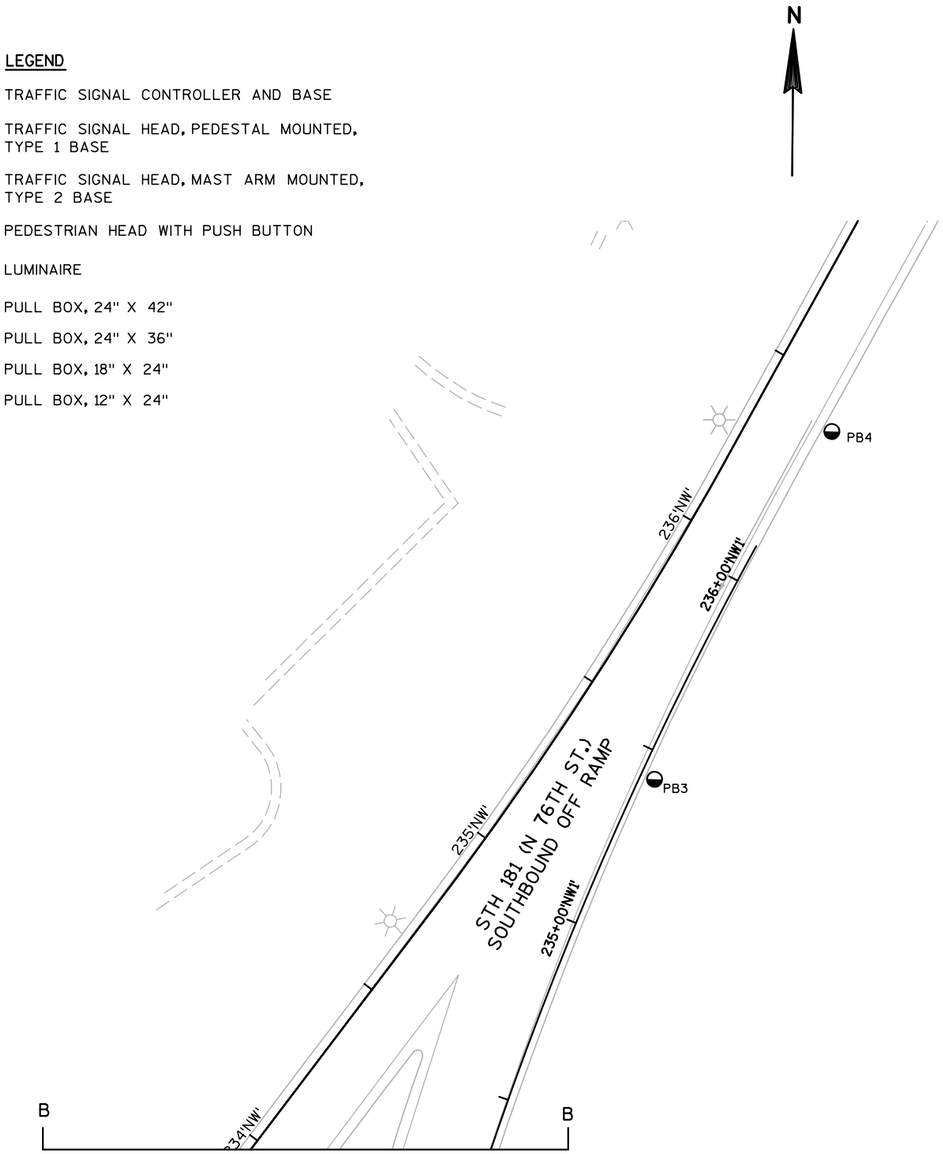
PROJECT NO: 2140-08-73	HWY: STH 181	COUNTY: MILWAUKEE	TRAFFIC SIGNAL REMOVAL PLAN	SHEET 273	E

2



LEGEND

- TRAFFIC SIGNAL CONTROLLER AND BASE
- TRAFFIC SIGNAL HEAD, PEDESTAL MOUNTED, TYPE 1 BASE
- (XX) TRAFFIC SIGNAL HEAD, MAST ARM MOUNTED, TYPE 2 BASE
- PEDESTRIAN HEAD WITH PUSH BUTTON
- LUMINAIRE
- PULL BOX, 24" X 42"
- PULL BOX, 24" X 36"
- PULL BOX, 18" X 24"
- PULL BOX, 12" X 24"



NOTE: GRAY SHADED ITEMS ARE TO REMAIN.
BOLD REPRESENTS ITEMS TO BE REMOVED.

TRAFFIC CONTROL SIGNAL
STH 181 (N 76TH ST) & BROWN DEER RD
CITY OF MILWAUKEE
MILWAUKEE COUNTY
SIGNAL NO. M 140
SCALE 0 20
DISTRICT CONTACT: JAH
DESIGNED BY: STRAND ASSOCIATES INC
PAGE 3 OF 3

PROJECT NO: 2140-08-73	HWY: STH 181	COUNTY: MILWAUKEE	TRAFFIC SIGNAL REMOVAL PLAN	SHEET 274	E

LEGEND

- CABLE - OVERHEAD
- LUMINAIRE (150W)
- TYPE 4 WOOD POLE
- LANE DESIGNATION FOR REFERENCE ONLY
- SIGNAL HEAD, OVERHEAD MOUNT
- 3-V 1 — MOUNTING CONFIGURATION SIGNALS HEAD NUMBER
- NOTE: ALL LENSES ARE 12-INCH GRAYSHADE REPRESENTS EXISTING
- WORK ZONE
- AREA MAINTAINED FOR TURNING VEHICLES
- TEMPORARY PAVEMENT
- TEMPORARY CROSSWALK ACCESS
- TEMPORARY BUS STOP PAD
- TEMPORARY PAVEMENT TO BE USED IN FUTURE STAGES
- DRUM WITH/WITHOUT LIGHT, TYPE C
- FLEXIBLE TUBULAR MARKERS
- SIGN MOUNTED ON POST
- SIGN MOUNTED ON TEMPORARY SUPPORT
- TYPE III BARRICADE WITH/WITHOUT SIGN
- REMOVING PAVEMENT MARKINGS

LEGEND (CONT'D)

- CONTROL CABINET
- NONMETALLIC CONDUIT 2", UNLESS OTHERWISE NOTED
- SIGNAL HEAD, PEDESTAL MOUNT
- (XX) SIGNAL HEAD, MAST-ARM MOUNT
- PEDESTRIAN HEAD WITH PUSH BUTTON
- LOOP DETECTOR CONDUIT 1" NONMETALLIC
- LOOP DETECTOR IN 1" NONMETALLIC CONDUIT
- LUMINAIRE
- DON'T WALK INDICATOR 12" WALK INDICATOR 12"
- LANE DESIGNATION FOR REFERENCE ONLY
- PULL BOX, 24" X 36"
- PULL BOX, 24" X 42"
- 8 — SIGNAL HEAD NUMBER
- R — RED CIRCULAR INDICATOR
- Y — YELLOW CIRCULAR INDICATOR
- G — GREEN CIRCULAR INDICATOR
- Y — YELLOW ARROW
- G — GREEN ARROW
- R Y G — OPTICALLY PROGRAMMED HEAD
- NOTE: ALL LENSES ARE 12-INCH GRAYSHADE REPRESENTS EXISTING

N

STH 181 (N 76TH ST.) NORTHBOUND ON RAMP

STH 181/ 76TH ST

STH 100 (BROWN DEER RD.)

1+00'TNE'
2+00'TNE'
234+00'NE'
235+00'NE'
234+00
233+00
18+00'TSE'
17+00'TSE'
232+00'SE'
233'SE'
121+00'BD'
122+00'BD'
123+00'BD'
124+00'BD'
125+00'BD'
126+00'BD'
127+00'BD

SB8
CB1
12'x6' BOX

GENERAL NOTES

1. FINAL LOCATION OF SIGNAL POLES, CONTROLLER, & HEADS SHALL BE APPROVED BY THE ENGINEER.
2. GUYING OF POLES SHALL BE AS APPROVED BY THE ENGINEER.
3. WISCONSIN DOT REGIONAL ELECTRICAL UNIT SHALL MAKE THE CONNECTION OF THE TEMPORARY SIGNAL FACES INTO THE PERMANENT SIGNAL FACE AT SB8.

SUMMARY FOR INFORMATION ONLY		
WOOD POLES, CLASS IV	4	EA.
GUY WIRES	6	EA.
OH WIRE	200	LF

TRAFFIC CONTROL SIGNAL

STH 181 (N 76TH ST) & BROWN DEER RD
CITY OF MILWAUKEE
MILWAUKEE COUNTY

SIGNAL NO. M 140 SCALE 0 20

DISTRICT CONTACT: JAH
DESIGNED BY: STRAND ASSOCIATES INC.

PAGE 1 OF 7

PROJECT NO: 2140-08-73	HWY: STH 181	COUNTY: MILWAUKEE	PARTIAL TEMPORARY SIGNAL PLAN - STAGE 1	SHEET 275 E

FILE NAME : s:\@sai\051--100\089\099\micros\design\0873\024510_sp.dgn PLOT DATE : 7/30/2007 PLOT BY : $$...plotuser...$$ PLOT NAME : PLOT SCALE : $$.....plotscale.....$$

LEGEND

- CABLE - OVERHEAD
- LUMINAIRE (150W)
- TYPE 4 WOOD POLE
- LANE DESIGNATION FOR REFERENCE ONLY
- SIGNAL HEAD, OVERHEAD MOUNT
- 3-V 1 — MOUNTING CONFIGURATION SIGNALS HEAD NUMBER
- NOTE: ALL LENSES ARE 12-INCH GRAYSHADE REPRESENTS EXISTING
- WORK ZONE
- AREA MAINTAINED FOR TURNING VEHICLES
- TEMPORARY PAVEMENT
- TEMPORARY CROSSWALK ACCESS
- TEMPORARY BUS STOP PAD
- TEMPORARY PAVEMENT TO BE USED IN FUTURE STAGES
- DRUM WITH/WITHOUT LIGHT, TYPE C
- FLEXIBLE TUBULAR MARKERS
- SIGN MOUNTED ON POST
- SIGN MOUNTED ON TEMPORARY SUPPORT
- TYPE III BARRICADE WITH/WITHOUT SIGN
- REMOVING PAVEMENT MARKINGS

LEGEND (CONT'D)

- CONTROL CABINET
- NONMETALLIC CONDUIT 2", UNLESS OTHERWISE NOTED
- SIGNAL HEAD, PEDESTAL MOUNT
- (XX) SIGNAL HEAD, MAST-ARM MOUNT
- PEDESTRIAN HEAD WITH PUSH BUTTON
- LOOP DETECTOR CONDUIT 1" NONMETALLIC
- LOOP DETECTOR IN 1" NONMETALLIC CONDUIT
- LUMINAIRE
- DON'T WALK INDICATOR 12" WALK INDICATOR 12"
- LANE DESIGNATION FOR REFERENCE ONLY
- PULL BOX, 24" X 36"
- PULL BOX, 24" X 42"
- 8 — SIGNAL HEAD NUMBER
- R — RED CIRCULAR INDICATOR
- Y — YELLOW CIRCULAR INDICATOR
- G — GREEN CIRCULAR INDICATOR
- Y — YELLOW ARROW
- G — GREEN ARROW
- R Y G — OPTICALLY PROGRAMMED HEAD
- NOTE: ALL LENSES ARE 12-INCH GRAYSHADE REPRESENTS EXISTING

2

N

STH 181 (N 76TH ST.) NORTHBOUND ON RAMP

STH 181/ 76TH ST

STH 100 (BROWN DEER RD.)

1+00'TNE'
2+00'TNE'
234+00'NE'
235+00'NE'
234+00
233+00
232+00'SE'
18+00'TSE'
17+00'TSE'
233'SE'
232'SE'
SB8
CB1
12'x6' BOX
121+00'BD'
122+00'BD'
123+00'BD'
124+00'BD'
125+00'BD'
126+00'BD'
127+00'BD

GENERAL NOTES

1. FINAL LOCATION OF SIGNAL POLES, CONTROLLER, & HEADS SHALL BE APPROVED BY THE ENGINEER.
2. GUYING OF POLES SHALL BE AS APPROVED BY THE ENGINEER.
3. WISCONSIN DOT REGIONAL ELECTRICAL UNIT SHALL MAKE THE CONNECTION OF THE TEMPORARY SIGNAL FACES INTO THE PERMANENT SIGNAL FACE AT SB8.

TRAFFIC CONTROL SIGNAL

STH 181 (N 76TH ST) & BROWN DEER RD
CITY OF MILWAUKEE
MILWAUKEE COUNTY

SIGNAL NO. M 140 SCALE 0 20

DISTRICT CONTACT: JAH
DESIGNED BY: STRAND ASSOCIATES INC.

PAGE 2 OF 7

PROJECT NO: 2140-08-73	HWY: STH 181	COUNTY: MILWAUKEE	PARTIAL TEMPORARY SIGNAL PLAN - STAGE 2 PHASE I	SHEET 276 E

LEGEND

- CABLE - OVERHEAD
- LUMINAIRE (150W)
- TYPE 4 WOOD POLE
- LANE DESIGNATION FOR REFERENCE ONLY
- SIGNAL HEAD, OVERHEAD MOUNT
- 3-V 1 — MOUNTING CONFIGURATION SIGNALS HEAD NUMBER
- NOTE: ALL LENSES ARE 12-INCH GRAYSHADE REPRESENTS EXISTING
- WORK ZONE
- AREA MAINTAINED FOR TURNING VEHICLES
- TEMPORARY PAVEMENT
- TEMPORARY CROSSWALK ACCESS
- TEMPORARY BUS STOP PAD
- TEMPORARY PAVEMENT TO BE USED IN FUTURE STAGES
- DRUM WITH/WITHOUT LIGHT, TYPE C
- FLEXIBLE TUBULAR MARKERS
- SIGN MOUNTED ON POST
- SIGN MOUNTED ON TEMPORARY SUPPORT
- TYPE III BARRICADE WITH/WITHOUT SIGN
- REMOVING PAVEMENT MARKINGS

LEGEND (CONT'D)

- CONTROL CABINET
- NONMETALLIC CONDUIT 2", UNLESS OTHERWISE NOTED
- SIGNAL HEAD, PEDESTAL MOUNT
- (XX) SIGNAL HEAD, MAST-ARM MOUNT
- PEDESTRIAN HEAD WITH PUSH BUTTON
- LOOP DETECTOR CONDUIT 1" NONMETALLIC
- LOOP DETECTOR IN 1" NONMETALLIC CONDUIT
- LUMINAIRE
- DON'T WALK INDICATOR 12" WALK INDICATOR 12"
- LANE DESIGNATION FOR REFERENCE ONLY
- PULL BOX, 24" X 36"
- PULL BOX, 24" X 42"
- 8 — SIGNAL HEAD NUMBER
- R — RED CIRCULAR INDICATOR
- Y — YELLOW CIRCULAR INDICATOR
- G — GREEN CIRCULAR INDICATOR
- Y — YELLOW ARROW
- G — GREEN ARROW
- R Y G — OPTICALLY PROGRAMMED HEAD

NOTE: ALL LENSES ARE 12-INCH GRAYSHADE REPRESENTS EXISTING

N

STH 181 (N 76TH ST.) NORTHBOUND ON RAMP 235+00'NE'

STH 181/ 76TH ST

STH 100 (BROWN DEER RD.)

121+00'BD' 122+00'BD' 123+00'BD' 124+00'BD' 125+00'BD' 126+00'BD' 127+00'BD

234+00'NE' 233+00'NE' 232+00'SE' 233'SE' 232'SE'

1+00'TSE' 18+00'TSE' 1+00'TNE' 2+00'TNE'

SB8 CB1 P1 P2 P3

12'x6' BOX

GENERAL NOTES

1. FINAL LOCATION OF SIGNAL POLES, CONTROLLER, & HEADS SHALL BE APPROVED BY THE ENGINEER.
2. GUYING OF POLES SHALL BE AS APPROVED BY THE ENGINEER.
3. WISCONSIN DOT REGIONAL ELECTRICAL UNIT SHALL MAKE THE CONNECTION OF THE TEMPORARY SIGNAL FACES INTO THE PERMANENT SIGNAL FACE AT SB8.

TRAFFIC CONTROL SIGNAL

STH 181 (N 76TH ST) & BROWN DEER RD
CITY OF MILWAUKEE
MILWAUKEE COUNTY

SIGNAL NO. M 140 SCALE 0 20

DISTRICT CONTACT: JAH
DESIGNED BY: STRAND ASSOCIATES INC.

PAGE 3 OF 7

PROJECT NO: 2140-08-73	HWY: STH 181	COUNTY: MILWAUKEE	PARTIAL TEMPORARY SIGNAL PLAN - STAGE 2 PHASE II	SHEET 277 E

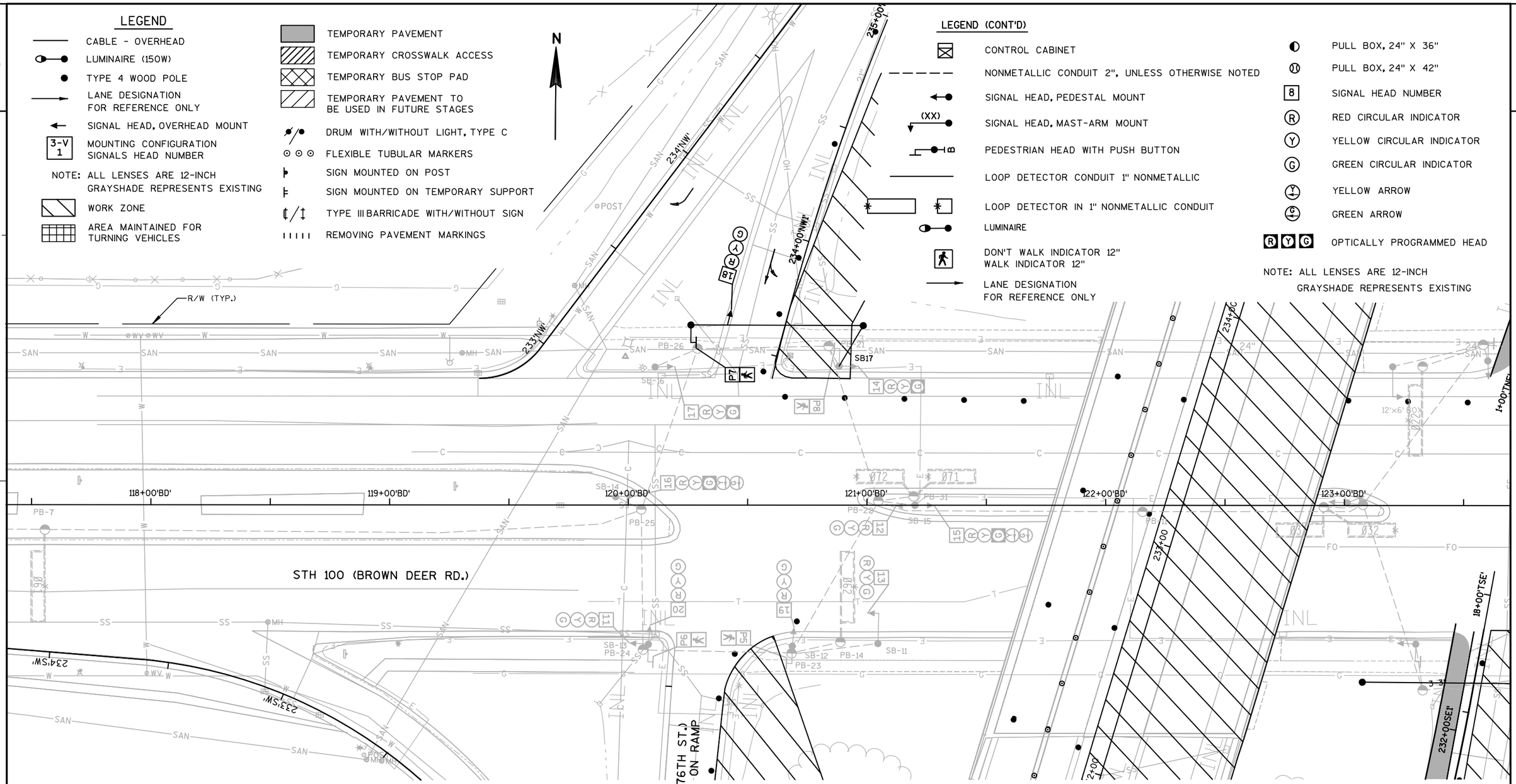
LEGEND

- CABLE - OVERHEAD
- LUMINAIRE (150W)
- TYPE 4 WOOD POLE
- LANE DESIGNATION FOR REFERENCE ONLY
- SIGNAL HEAD, OVERHEAD MOUNT
- 3-V 1 — MOUNTING CONFIGURATION SIGNALS HEAD NUMBER
- NOTE: ALL LENSES ARE 12-INCH GRAYSHADE REPRESENTS EXISTING
- WORK ZONE
- AREA MAINTAINED FOR TURNING VEHICLES
- TEMPORARY PAVEMENT
- TEMPORARY CROSSWALK ACCESS
- TEMPORARY BUS STOP PAD
- TEMPORARY PAVEMENT TO BE USED IN FUTURE STAGES
- DRUM WITH/WITHOUT LIGHT, TYPE C
- FLEXIBLE TUBULAR MARKERS
- SIGN MOUNTED ON POST
- SIGN MOUNTED ON TEMPORARY SUPPORT
- TYPE III BARRICADE WITH/WITHOUT SIGN
- REMOVING PAVEMENT MARKINGS

LEGEND (CONT'D)

- CONTROL CABINET
- NONMETALLIC CONDUIT 2", UNLESS OTHERWISE NOTED
- SIGNAL HEAD, PEDESTAL MOUNT
- (XX) SIGNAL HEAD, MAST-ARM MOUNT
- PEDESTRIAN HEAD WITH PUSH BUTTON
- LOOP DETECTOR CONDUIT 1" NONMETALLIC
- LOOP DETECTOR IN 1" NONMETALLIC CONDUIT
- LUMINAIRE
- DON'T WALK INDICATOR 12" WALK INDICATOR 12"
- LANE DESIGNATION FOR REFERENCE ONLY
- PULL BOX, 24" X 36"
- PULL BOX, 24" X 42"
- 8 — SIGNAL HEAD NUMBER
- R — RED CIRCULAR INDICATOR
- Y — YELLOW CIRCULAR INDICATOR
- G — GREEN CIRCULAR INDICATOR
- YELLOW ARROW
- GREEN ARROW
- R Y G — OPTICALLY PROGRAMMED HEAD

NOTE: ALL LENSES ARE 12-INCH GRAYSHADE REPRESENTS EXISTING



GENERAL NOTES

1. FINAL LOCATION OF SIGNAL POLES, CONTROLLER, & HEADS SHALL BE APPROVED BY THE ENGINEER.
2. GUYING OF POLES SHALL BE AS APPROVED BY THE ENGINEER.
3. WISCONSIN DOT REGIONAL ELECTRICAL UNIT SHALL MAKE THE CONNECTION OF THE TEMPORARY SIGNAL FACES INTO THE PERMANENT SIGNAL FACE AT SB17.

TRAFFIC CONTROL SIGNAL

STH 181 (N 76TH ST) & BROWN DEER RD
CITY OF MILWAUKEE
MILWAUKEE COUNTY

SIGNAL NO. M 140 SCALE 0 20

DISTRICT CONTACT: JAH
DESIGNED BY: STRAND ASSOCIATES INC.

PAGE 4 OF 7

PROJECT NO: 2140-08-73	HWY: STH 181	COUNTY: MILWAUKEE	PARTIAL TEMPORARY SIGNAL PLAN - STAGE 2	SHEET 278 E

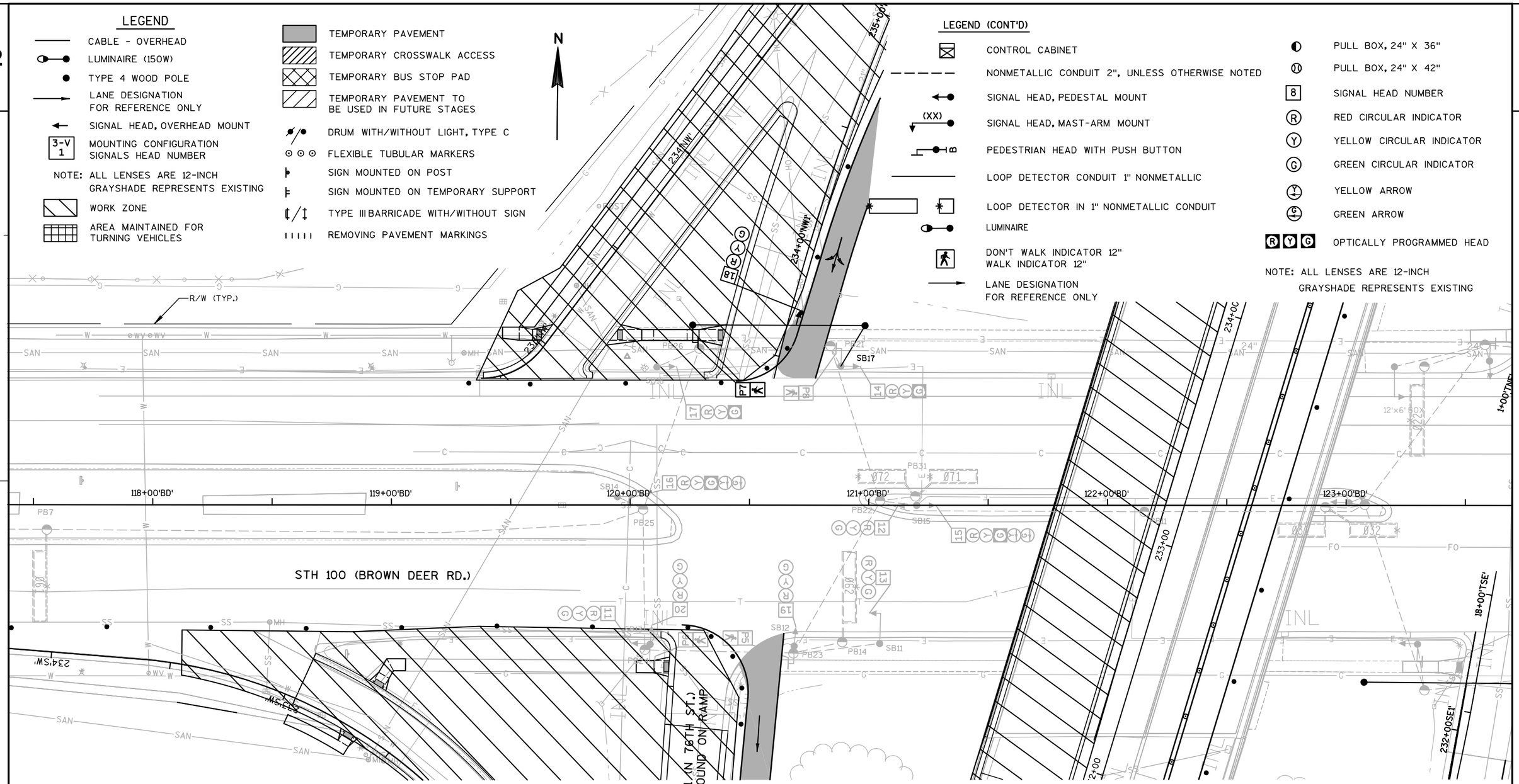
LEGEND

- CABLE - OVERHEAD
- LUMINAIRE (150W)
- TYPE 4 WOOD POLE
- LANE DESIGNATION FOR REFERENCE ONLY
- SIGNAL HEAD, OVERHEAD MOUNT
- 3-V 1 — MOUNTING CONFIGURATION SIGNALS HEAD NUMBER
- NOTE: ALL LENSES ARE 12-INCH GRAYSHADE REPRESENTS EXISTING
- WORK ZONE
- AREA MAINTAINED FOR TURNING VEHICLES
- TEMPORARY PAVEMENT
- TEMPORARY CROSSWALK ACCESS
- TEMPORARY BUS STOP PAD
- TEMPORARY PAVEMENT TO BE USED IN FUTURE STAGES
- DRUM WITH/WITHOUT LIGHT, TYPE C
- FLEXIBLE TUBULAR MARKERS
- SIGN MOUNTED ON POST
- SIGN MOUNTED ON TEMPORARY SUPPORT
- TYPE III BARRICADE WITH/WITHOUT SIGN
- REMOVING PAVEMENT MARKINGS

LEGEND (CONT'D)

- CONTROL CABINET
- NONMETALLIC CONDUIT 2", UNLESS OTHERWISE NOTED
- SIGNAL HEAD, PEDESTAL MOUNT
- (XX) SIGNAL HEAD, MAST-ARM MOUNT
- PEDESTRIAN HEAD WITH PUSH BUTTON
- LOOP DETECTOR CONDUIT 1" NONMETALLIC
- LOOP DETECTOR IN 1" NONMETALLIC CONDUIT
- LUMINAIRE
- DON'T WALK INDICATOR 12" WALK INDICATOR 12"
- LANE DESIGNATION FOR REFERENCE ONLY
- PULL BOX, 24" X 36"
- PULL BOX, 24" X 42"
- 8 — SIGNAL HEAD NUMBER
- (R) RED CIRCULAR INDICATOR
- (Y) YELLOW CIRCULAR INDICATOR
- (G) GREEN CIRCULAR INDICATOR
- YELLOW ARROW
- GREEN ARROW
- R Y G — OPTICALLY PROGRAMMED HEAD

NOTE: ALL LENSES ARE 12-INCH GRAYSHADE REPRESENTS EXISTING



GENERAL NOTES

1. FINAL LOCATION OF SIGNAL POLES, CONTROLLER, & HEADS SHALL BE APPROVED BY THE ENGINEER.
2. GUYING OF POLES SHALL BE AS APPROVED BY THE ENGINEER.
3. WISCONSIN DOT REGIONAL ELECTRICAL UNIT SHALL MAKE THE CONNECTION OF THE TEMPORARY SIGNAL FACES INTO THE PERMANENT SIGNAL FACE AT SB17.

TRAFFIC CONTROL SIGNAL

STH 181 (N 76TH ST) & BROWN DEER RD
CITY OF MILWAUKEE
MILWAUKEE COUNTY

SIGNAL NO. M 140 SCALE 0 20

DISTRICT CONTACT: JAH
DESIGNED BY: STRAND ASSOCIATES INC.

PAGE 5 OF 7

PROJECT NO: 2140-08-73	HWY: STH 181	COUNTY: MILWAUKEE	PARTIAL TEMPORARY SIGNAL PLAN - STAGE 3 PHASE I	SHEET 279	E

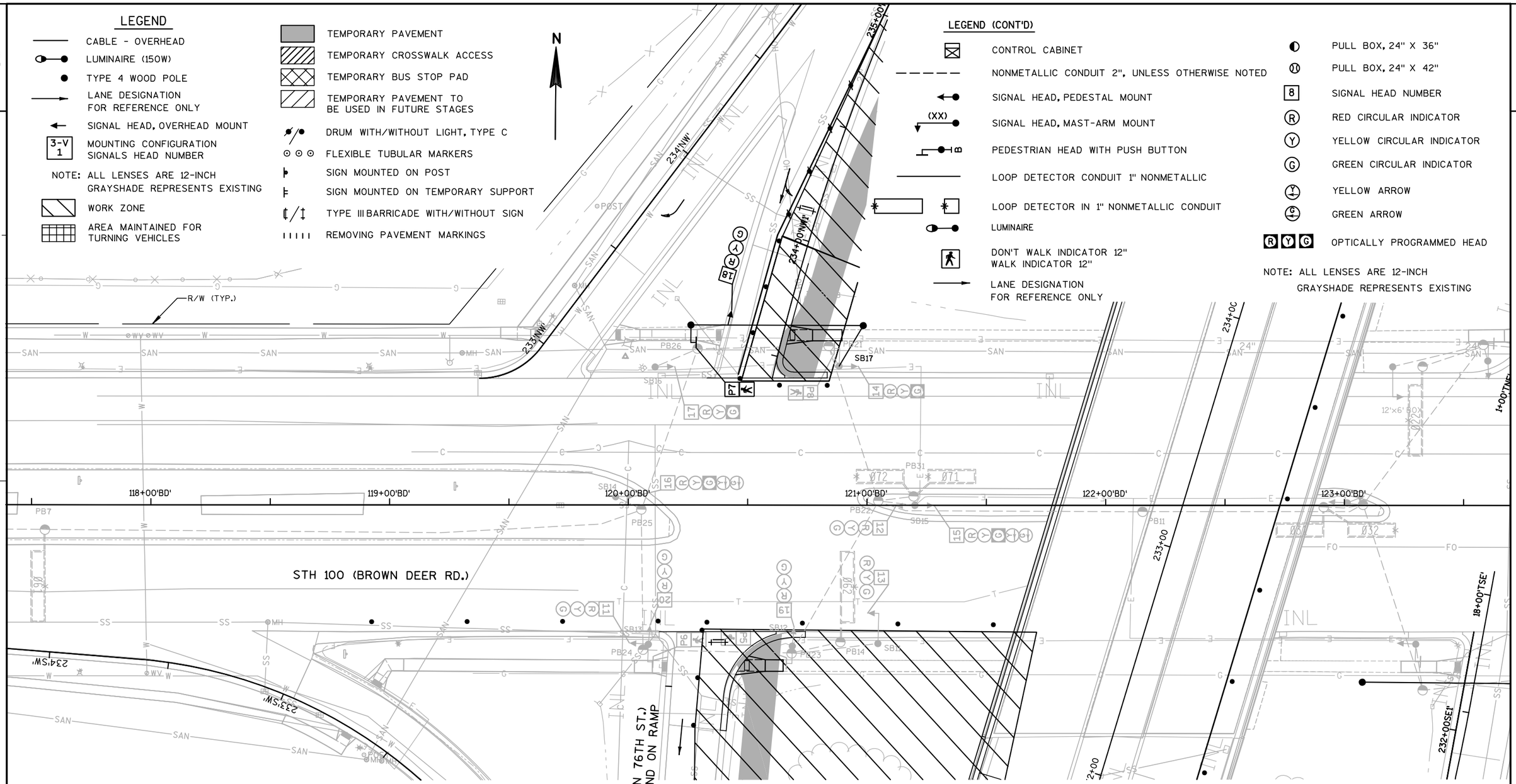
LEGEND

- CABLE - OVERHEAD
- LUMINAIRE (150W)
- TYPE 4 WOOD POLE
- LANE DESIGNATION FOR REFERENCE ONLY
- SIGNAL HEAD, OVERHEAD MOUNT
- 3-V 1 — MOUNTING CONFIGURATION SIGNALS HEAD NUMBER
- NOTE: ALL LENSES ARE 12-INCH GRAYSHADE REPRESENTS EXISTING
- WORK ZONE
- AREA MAINTAINED FOR TURNING VEHICLES
- TEMPORARY PAVEMENT
- TEMPORARY CROSSWALK ACCESS
- TEMPORARY BUS STOP PAD
- TEMPORARY PAVEMENT TO BE USED IN FUTURE STAGES
- DRUM WITH/WITHOUT LIGHT, TYPE C
- FLEXIBLE TUBULAR MARKERS
- SIGN MOUNTED ON POST
- SIGN MOUNTED ON TEMPORARY SUPPORT
- TYPE III BARRICADE WITH/WITHOUT SIGN
- REMOVING PAVEMENT MARKINGS

LEGEND (CONT'D)

- CONTROL CABINET
- NONMETALLIC CONDUIT 2", UNLESS OTHERWISE NOTED
- SIGNAL HEAD, PEDESTAL MOUNT
- (XX) SIGNAL HEAD, MAST-ARM MOUNT
- PEDESTRIAN HEAD WITH PUSH BUTTON
- LOOP DETECTOR CONDUIT 1" NONMETALLIC
- LOOP DETECTOR IN 1" NONMETALLIC CONDUIT
- LUMINAIRE
- DON'T WALK INDICATOR 12" WALK INDICATOR 12"
- LANE DESIGNATION FOR REFERENCE ONLY
- PULL BOX, 24" X 36"
- PULL BOX, 24" X 42"
- 8 — SIGNAL HEAD NUMBER
- R — RED CIRCULAR INDICATOR
- Y — YELLOW CIRCULAR INDICATOR
- G — GREEN CIRCULAR INDICATOR
- YELLOW ARROW
- GREEN ARROW
- R Y G — OPTICALLY PROGRAMMED HEAD

NOTE: ALL LENSES ARE 12-INCH GRAYSHADE REPRESENTS EXISTING



GENERAL NOTES

1. FINAL LOCATION OF SIGNAL POLES, CONTROLLER, & HEADS SHALL BE APPROVED BY THE ENGINEER.
2. GUYING OF POLES SHALL BE AS APPROVED BY THE ENGINEER.
3. WISCONSIN DOT REGIONAL ELECTRICAL UNIT SHALL MAKE THE CONNECTION OF THE TEMPORARY SIGNAL FACES INTO THE PERMANENT SIGNAL FACE AT SB17.

TRAFFIC CONTROL SIGNAL

STH 181 (N 76TH ST) & BROWN DEER RD
CITY OF MILWAUKEE
MILWAUKEE COUNTY

SIGNAL NO. M 140 SCALE 0 20

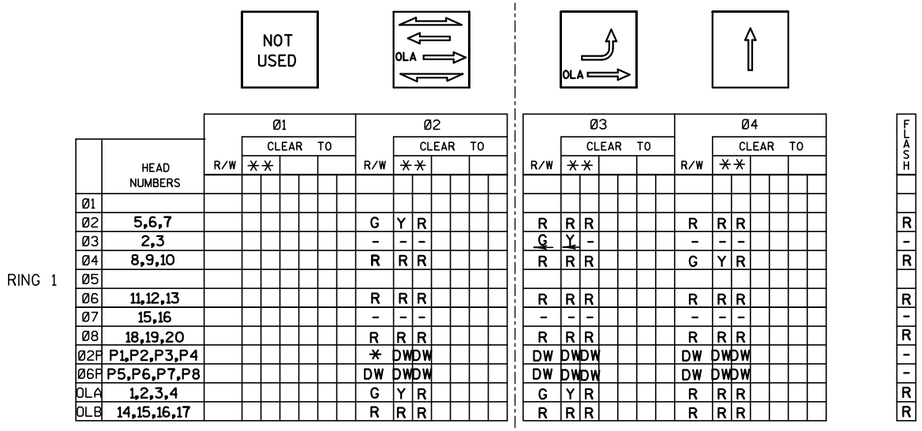
DISTRICT CONTACT: JAH
DESIGNED BY: STRAND ASSOCIATES INC.

PAGE 6 OF 7

PROJECT NO: 2140-08-73	HWY: STH 181	COUNTY: MILWAUKEE	PARTIAL TEMPORARY SIGNAL PLAN - STAGE 3 PHASE II	SHEET 280	E

2

SEQUENCE OF OPERATION



RING 1

	HEAD NUMBERS	Ø1 R/W	Ø1 CLEAR TO **	Ø2 R/W	Ø2 CLEAR TO **	Ø3 R/W	Ø3 CLEAR TO **	Ø4 R/W	Ø4 CLEAR TO **	FLASH
Ø1										
Ø2	5,6,7			G	Y R	R	R R	R	R R	R
Ø3	2,3			-	- -	G	Y -	-	- -	-
Ø4	8,9,10			R	R R	R	R R	G	Y R	R
Ø5										
Ø6	11,12,13			R	R R	R	R R	R	R R	R
Ø7	15,16			-	- -	-	- -	-	- -	-
Ø8	18,19,20			R	R R	R	R R	R	R R	R
Ø2P	P1,P2,P3,P4			*	DW DW	DW	DW DW	DW	DW DW	-
Ø6P	P5,P6,P7,P8			DW	DW DW	DW	DW DW	DW	DW DW	-
OLA	1,2,3,4			G	Y R	G	Y R	R	R R	R
OLB	14,15,16,17			R	R R	R	R R	R	R R	R

RING 2

	HEAD NUMBERS	Ø5 R/W	Ø5 CLEAR TO **	Ø6 R/W	Ø6 CLEAR TO **	Ø7 R/W	Ø7 CLEAR TO **	Ø8 R/W	Ø8 CLEAR TO **
Ø1									
Ø2	5,6,7			R	R R	R	R R	R	R R
Ø3	2,3			-	- -	-	- -	-	- -
Ø4	8,9,10			R	R R	R	R R	R	R R
Ø5									
Ø6	11,12,13			G	Y R	R	R R	R	R R
Ø7	15,16			-	- -	G	Y -	-	- -
Ø8	18,19,20			R	R R	R	R R	G	Y R
Ø2P	P1,P2,P3,P4			DW	DW DW	DW	DW DW	DW	DW DW
Ø6P	P5,P6,P7,P8			*	DW DW	DW	DW DW	DW	DW DW
OLA	1,2,3,4			R	R R	R	R R	R	R R
OLB	14,15,16,17			G	Y R	G	Y R	R	R R

** CLEARANCE TO A PHASE IN CONFLICT WITH THIS PHASE ON (SEE CHART 1 BELOW)

* WHEN CALLED, TIMES STEADY WALK, THEN FLASHING DONT WALK, THEN GOES TO STEADY DONT WALK.

CHART 1

PHASE ON	NONCONFLICTING PHASE ALLOWED TO TIME CONCURRENTLY	PHASES IN CONFLICT WITH PHASE ON
Ø1		
Ø2	6	3,4,7,8
Ø3	7 OR 8	2,4,6
Ø4	7 OR 8	2,3,6
Ø5		
Ø6	2	3,4,7,8
Ø7	3 OR 4	2,6,8
Ø8	3 OR 4	2,6,7

DETECTOR LOGIC

DETECTOR NUMBER	AMPLIFIER CHANNEL NUMBER	DETECTOR OPERATION: CALLS AND EXTENDS	DETECTOR OPERATION: CALLS ONLY	DETECTOR OPERATION: EXTENDS ONLY	PHASE CALLED	PHASE EXTENDED	DETECTOR DISCONNECT PHASE	CALLING DELAY	EXTENSION STRETCH	SIZE	NUMBER OF TURNS
21	FUTURE									EXISTING	3
22	FUTURE									EXISTING	3
31	1	X			3	3				EXISTING	3
32	1	X			3	3				EXISTING	3
61	FUTURE									EXISTING	4
62	FUTURE									EXISTING	3
71	2	X			7	7				EXISTING	3
72	2	X			7	7				EXISTING	3

CONTROLLER LOGIC

PHASE NUMBER	PHASE LOCKING	DUAL ENTRY W / Ø	PHASE RECALL	PHASE ACTIVE
1				
2	X	6	PED	X
3				X
4			MAX	X
5				
6	X	2	PED	X
7				X
8			MAX	X

OVERLAPS

O.L. "A" = Ø2, Ø3
O.L. "B" = Ø6, Ø7
O.L. "C" =
O.L. "D" =

TYPE OF INTERCONNECT	
NONE	
TBC	X
CLOSED LOOP	
HARDWIRE	
TONE (FREQ)	
FIBER OPTIC	

TYPE OF PRE-EMPT	
NONE	X
RAILROAD	
EMERGENCY VEHICLE	

TYPE OF LIGHTING	
NONE	X
IN TRAFFIC CONTROL CABINET	
IN SEPARATE CONTROL CABINET	

GENERAL NOTES:

1. ANY ACTUATED PHASE FOR WHICH THERE IS NO CALL SHALL BE SKIPPED.
2. WHEN ONE PHASE IS ON ALONE, ANY NONCONFLICTING PHASE MAY START TIMING CONCURRENTLY WITHOUT A CLEARANCE INTERVAL. (SEE CHART 1 AT LEFT.)

STH 181 (N 76TH ST) & BROWN DEER RD
CITY OF MILWAUKEE
MILWAUKEE COUNTY

SIGNAL NO. M 140

CONTROLLER TYPE: EPAC

DATE 7/07

PAGE NO. 7 OF 7

2

LEGEND

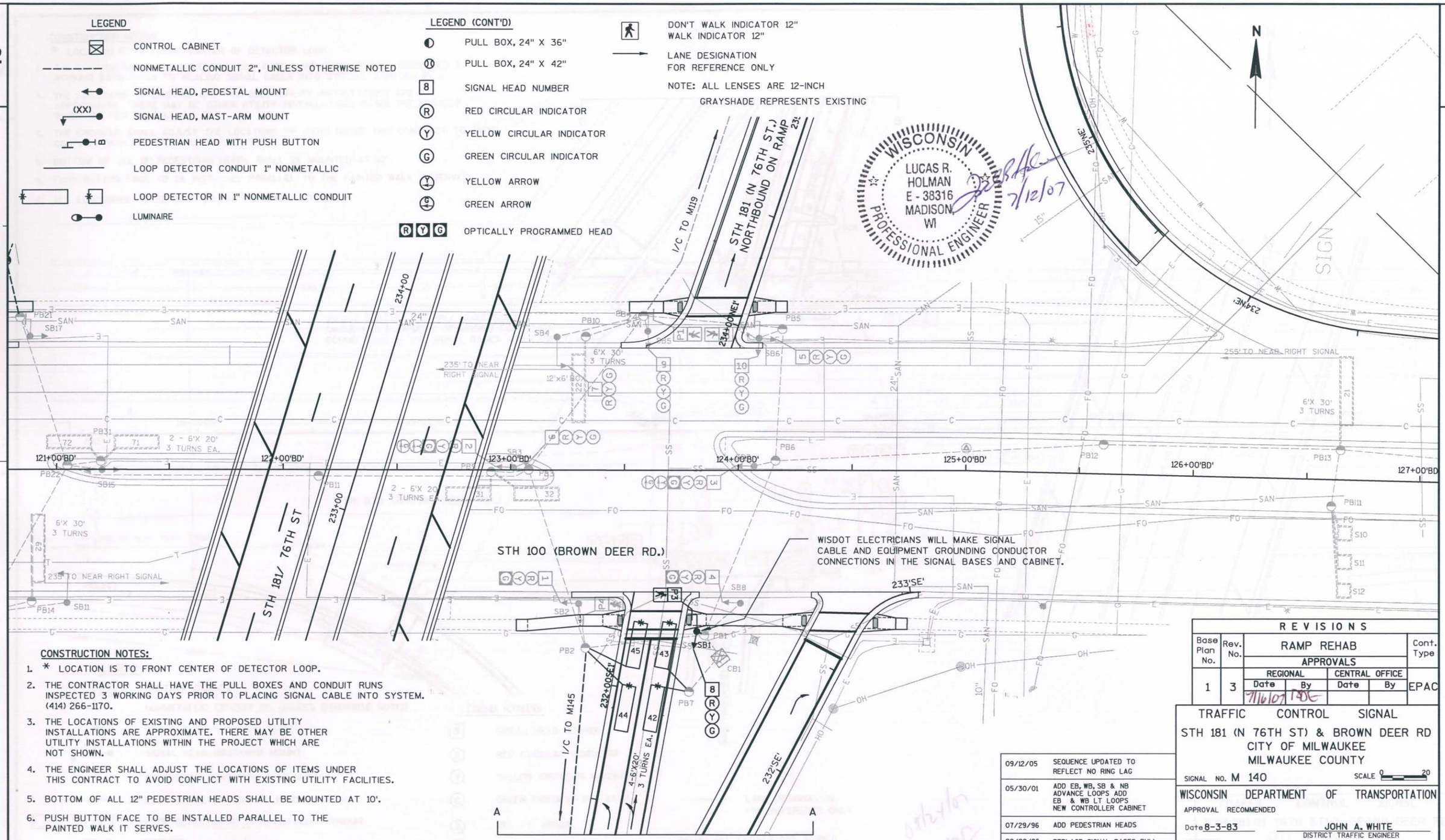
- CONTROL CABINET
- NONMETALLIC CONDUIT 2", UNLESS OTHERWISE NOTED
- SIGNAL HEAD, PEDESTAL MOUNT
- (XX) SIGNAL HEAD, MAST-ARM MOUNT
- PEDESTRIAN HEAD WITH PUSH BUTTON
- LOOP DETECTOR CONDUIT 1" NONMETALLIC
- LOOP DETECTOR IN 1" NONMETALLIC CONDUIT
- LUMINAIRE

LEGEND (CONT'D)

- PULL BOX, 24" X 36"
- PULL BOX, 24" X 42"
- 8 SIGNAL HEAD NUMBER
- (R) RED CIRCULAR INDICATOR
- (Y) YELLOW CIRCULAR INDICATOR
- (G) GREEN CIRCULAR INDICATOR
- YELLOW ARROW
- GREEN ARROW
- R Y G OPTICALLY PROGRAMMED HEAD
- DON'T WALK INDICATOR 12"
  WALK INDICATOR 12"
- LANE DESIGNATION
  FOR REFERENCE ONLY

NOTE: ALL LENSES ARE 12-INCH
GRAYSHADE REPRESENTS EXISTING

WISCONSIN
LUCAS R. HOLMAN
E - 38316
MADISON, WI
PROFESSIONAL ENGINEER
7/12/07



CONSTRUCTION NOTES:

1. * LOCATION IS TO FRONT CENTER OF DETECTOR LOOP.
2. THE CONTRACTOR SHALL HAVE THE PULL BOXES AND CONDUIT RUNS INSPECTED 3 WORKING DAYS PRIOR TO PLACING SIGNAL CABLE INTO SYSTEM. (414) 266-1170.
3. THE LOCATIONS OF EXISTING AND PROPOSED UTILITY INSTALLATIONS ARE APPROXIMATE. THERE MAY BE OTHER UTILITY INSTALLATIONS WITHIN THE PROJECT WHICH ARE NOT SHOWN.
4. THE ENGINEER SHALL ADJUST THE LOCATIONS OF ITEMS UNDER THIS CONTRACT TO AVOID CONFLICT WITH EXISTING UTILITY FACILITIES.
5. BOTTOM OF ALL 12" PEDESTRIAN HEADS SHALL BE MOUNTED AT 10'.
6. PUSH BUTTON FACE TO BE INSTALLED PARALLEL TO THE PAINTED WALK IT SERVES.
7. ALL LUMINAIRES TO BE 150W UNLESS OTHERWISE NOTED.

09/12/05	SEQUENCE UPDATED TO REFLECT NO RING LAG
05/30/01	ADD EB, WB, SB & NB ADVANCE LOOPS ADD EB & WB LT LOOPS NEW CONTROLLER CABINET
07/29/96	ADD PEDESTRIAN HEADS
02/02/96	REPLACE SIGNAL BASES, PULL BOXES, AND CONTROLLER
02/22/87	CHANGE SEQUENCE OF OPERATION
12/14/78	INITIAL INSTALLATION

REVISIONS						
Base Plan No.	Rev. No.	RAMP REHAB				Cont. Type
		APPROVALS				
		REGIONAL		CENTRAL OFFICE		
1	3	Date	By	Date	By	EPAC
		7/16/07	TDE			

TRAFFIC CONTROL SIGNAL

STH 181 (N 76TH ST) & BROWN DEER RD
CITY OF MILWAUKEE
MILWAUKEE COUNTY

SIGNAL NO. M 140 SCALE 0 20

WISCONSIN DEPARTMENT OF TRANSPORTATION

APPROVAL RECOMMENDED
Date 8-3-83 JOHN A. WHITE, DISTRICT TRAFFIC ENGINEER

APPROVED
Date 12-11-84 H.O. PRICE, STATE TRAFFIC ENGINEER

DISTRICT CONTACT: JAH
DESIGNED BY: STRAND ASSOCIATES INC

PAGE 1 OF 4

PROJECT NO: 2140-08-73	HWY: STH 181	COUNTY: MILWAUKEE	TRAFFIC SIGNAL PLAN	SHEET E

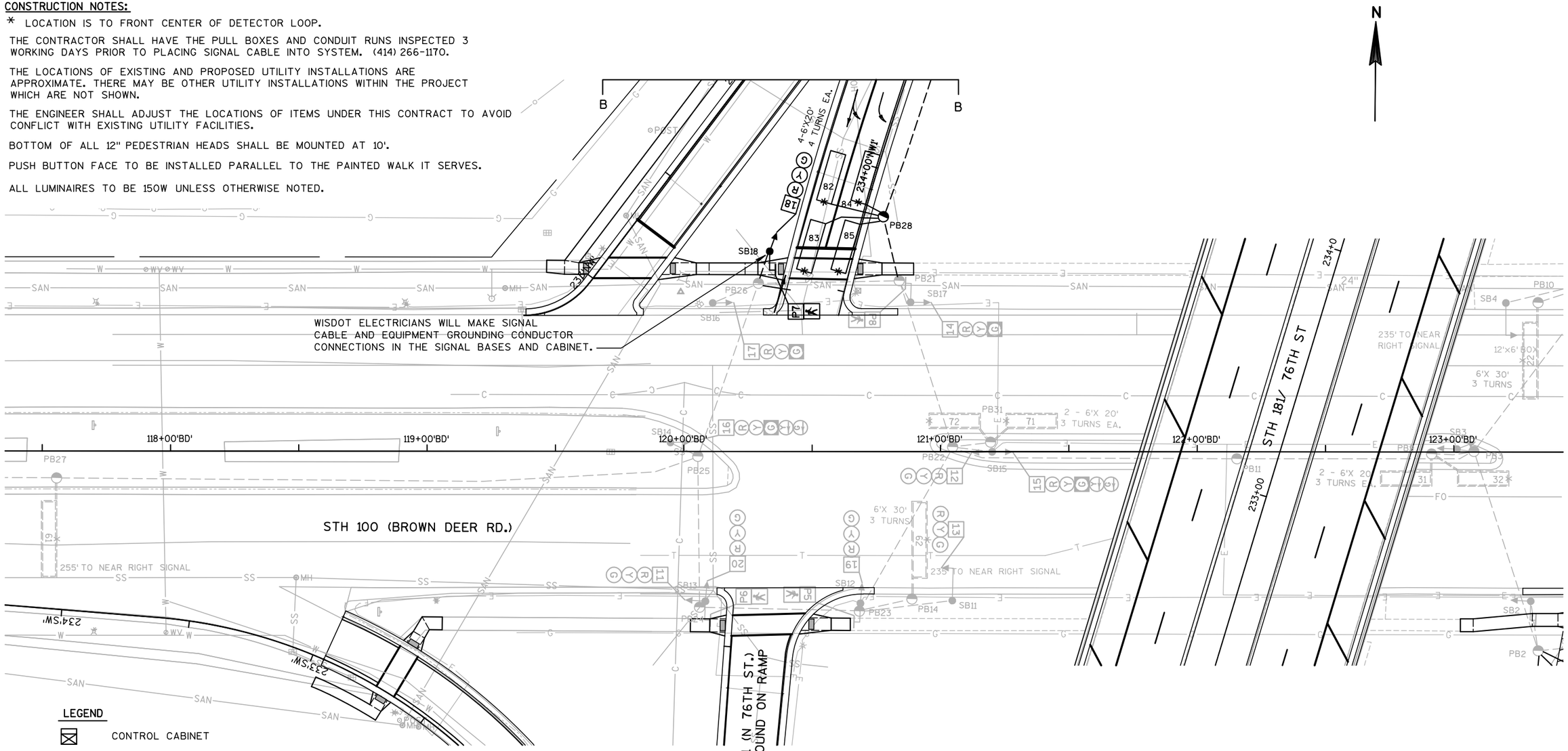
JAH 7-17-07

FILE NAME : S:\eSAI\051--100\089\099\Micros\DESIGN\0873\024521_sp.dgn PLOT DATE : 7/12/2007 PLOT BY : $$...plotuser...$$ PLOT NAME : PLOT SCALE : $$.....plotscale.....$$ WISDOT/CADDS SHEET 42

2

CONSTRUCTION NOTES:

1. * LOCATION IS TO FRONT CENTER OF DETECTOR LOOP.
2. THE CONTRACTOR SHALL HAVE THE PULL BOXES AND CONDUIT RUNS INSPECTED 3 WORKING DAYS PRIOR TO PLACING SIGNAL CABLE INTO SYSTEM. (414) 266-1170.
3. THE LOCATIONS OF EXISTING AND PROPOSED UTILITY INSTALLATIONS ARE APPROXIMATE. THERE MAY BE OTHER UTILITY INSTALLATIONS WITHIN THE PROJECT WHICH ARE NOT SHOWN.
4. THE ENGINEER SHALL ADJUST THE LOCATIONS OF ITEMS UNDER THIS CONTRACT TO AVOID CONFLICT WITH EXISTING UTILITY FACILITIES.
5. BOTTOM OF ALL 12" PEDESTRIAN HEADS SHALL BE MOUNTED AT 10'.
6. PUSH BUTTON FACE TO BE INSTALLED PARALLEL TO THE PAINTED WALK IT SERVES.
7. ALL LUMINAIRES TO BE 150W UNLESS OTHERWISE NOTED.



LEGEND

- CONTROL CABINET
- NONMETALLIC CONDUIT 2", UNLESS OTHERWISE NOTED
- SIGNAL HEAD, PEDESTAL MOUNT
- (XX) SIGNAL HEAD, MAST-ARM MOUNT
- PEDESTRIAN HEAD WITH PUSH BUTTON
- LOOP DETECTOR CONDUIT 1" NONMETALLIC
- LOOP DETECTOR IN 1" NONMETALLIC CONDUIT
- LUMINAIRE
- PULL BOX, 24" X 36"
- PULL BOX, 24" X 42"

LEGEND (CONT'D)

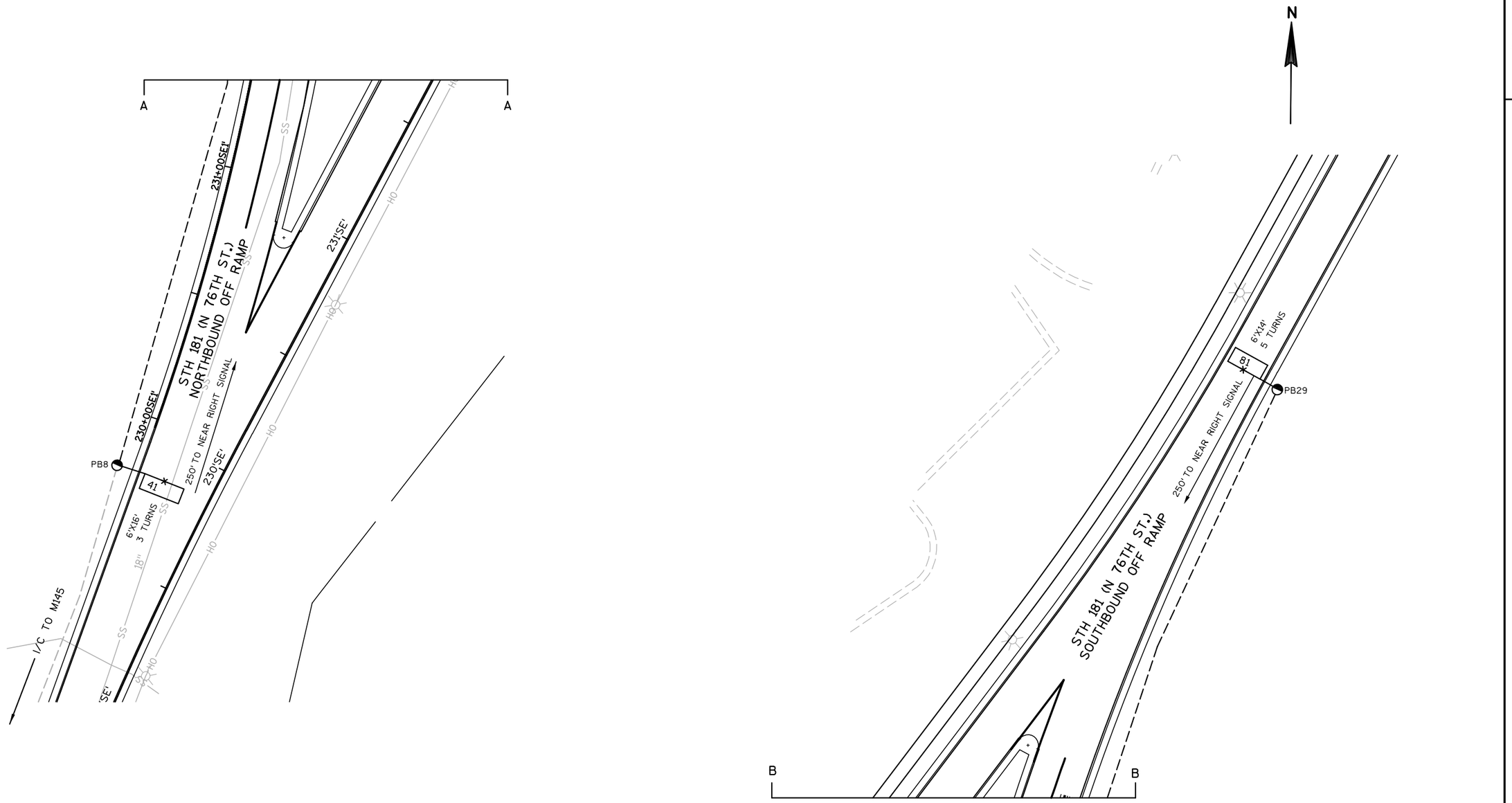
- 8 SIGNAL HEAD NUMBER
- (R) RED CIRCULAR INDICATOR
- (Y) YELLOW CIRCULAR INDICATOR
- (G) GREEN CIRCULAR INDICATOR
- YELLOW ARROW
- GREEN ARROW
- DON'T WALK INDICATOR 12" WALK INDICATOR 12"

LANE DESIGNATION FOR REFERENCE ONLY

NOTE: ALL LENSES ARE 12-INCH
GRAYSHADE REPRESENTS EXISTING

TRAFFIC CONTROL SIGNAL
STH 181 (N 76TH ST) & BROWN DEER RD
CITY OF MILWAUKEE
MILWAUKEE COUNTY
SIGNAL NO. M 140
SCALE 0 20
DISTRICT CONTACT: JAH
DESIGNED BY: STRAND ASSOCIATES INC
PAGE 2 OF 4

PROJECT NO: 2140-08-73	HWY: STH 181	COUNTY: MILWAUKEE	TRAFFIC SIGNAL PLAN	SHEET 283	E



TRAFFIC CONTROL SIGNAL

STH 181 (N 76TH ST) & BROWN DEER RD
CITY OF MILWAUKEE
MILWAUKEE COUNTY

SIGNAL NO. M 140

SCALE 0 20

DISTRICT CONTACT: JAH
DESIGNED BY: STRAND ASSOCIATES INC

PAGE 3 OF 4

PROJECT NO: 2140-08-73	HWY: STH 181	COUNTY: MILWAUKEE	TRAFFIC SIGNAL PLAN	SHEET 284	E

2

SEQUENCE OF OPERATION

NOT USED | OLA | OLA | ⇑

RING 1

	HEAD NUMBERS	Ø1 R/W	Ø1 CLEAR TO **	Ø2 R/W	Ø2 CLEAR TO **	Ø3 R/W	Ø3 CLEAR TO **	Ø4 R/W	Ø4 CLEAR TO **	FLASH
Ø1										
Ø2	5,6,7			G	Y R	R	R R	R	R R	R
Ø3	2,3			-	- -	G	Y -	-	- -	-
Ø4	8,9,10			R	R R	R	R R	G	Y R	R
Ø5										
Ø6	11,12,13			R	R R	R	R R	R	R R	R
Ø7	15,16			-	- -	-	- -	-	- -	-
Ø8	18,19,20			R	R R	R	R R	R	R R	R
Ø2F	P1,P2,P3,P4			*	DW DW	DW	DW DW	DW	DW DW	-
Ø6F	P5,P6,P7,P8			DW	DW DW	DW	DW DW	DW	DW DW	-
OLA	1,2,3,4			G	Y R	G	Y R	R	R R	R
OLB	14,15,16,17			R	R R	R	R R	R	R R	R

NOT USED | OLB | OLB | ⇓

RING 2

	HEAD NUMBERS	Ø5 R/W	Ø5 CLEAR TO **	Ø6 R/W	Ø6 CLEAR TO **	Ø7 R/W	Ø7 CLEAR TO **	Ø8 R/W	Ø8 CLEAR TO **
Ø1									
Ø2	5,6,7			R	R R	R	R R	R	R R
Ø3	2,3			-	- -	-	- -	-	- -
Ø4	8,9,10			R	R R	R	R R	R	R R
Ø5									
Ø6	11,12,13			G	Y R	R	R R	R	R R
Ø7	15,16			-	- -	G	Y -	-	- -
Ø8	18,19,20			R	R R	R	R R	G	Y R
Ø2F	P1,P2,P3,P4			DW	DW DW	DW	DW DW	DW	DW DW
Ø6F	P5,P6,P7,P8			*	DW DW	DW	DW DW	DW	DW DW
OLA	1,2,3,4			R	R R	R	R R	R	R R
OLB	14,15,16,17			G	Y R	G	Y R	R	R R

BARRIER

N

** CLEARANCE TO A PHASE IN CONFLICT WITH THIS PHASE ON (SEE CHART 1 BELOW)

* WHEN CALLED, TIMES STEADY WALK, THEN FLASHING DONT WALK, THEN GOES TO STEADY DONT WALK.

CHART 1

PHASE ON	NONCONFLICTING PHASE ALLOWED TO TIME CONCURRENTLY	PHASES IN CONFLICT WITH PHASE ON
Ø1		
Ø2	6	3,4,7,8
Ø3	7 OR 8	2,4,6
Ø4	7 OR 8	2,3,6
Ø5		
Ø6	2	3,4,7,8
Ø7	3 OR 4	2,6,8
Ø8	3 OR 4	2,6,7

DETECTOR LOGIC

DETECTOR NUMBER	AMPLIFIER CHANNEL NUMBER	DETECTOR OPERATION: CALLS AND EXTENDS	CALLS ONLY	EXTENDS ONLY	PHASE CALLED	PHASE EXTENDED	DETECTOR DISCONNECT PHASE	CALLING DELAY	EXTENSION STRETCH	SIZE	NUMBER OF TURNS
21	FUTURE									EXISTING	3
22	FUTURE									EXISTING	3
31	1	X			3	3				EXISTING	3
32	1	X			3	3				EXISTING	3
41	2			X		4			X	6x16	3
42	3	X			4	4				6x20	3
43	3	X			4	4				6x20	3
44	4	X			4	4				6x20	3
45	4	X			4	4				6x20	3
61	FUTURE									EXISTING	4
62	FUTURE									EXISTING	3
71	5	X			7	7				EXISTING	3
72	5	X			7	7				EXISTING	3
81	6			X		8			X	6x14	5
82	7	X			8	8				6x20	4
83	7	X			8	8				6x20	4
84	8	X			8	8				6x20	4
85	8	X			8	8				6x20	4

CONTROLLER LOGIC

PHASE NUMBER	PHASE LOCKING	DUAL ENTRY W / Ø	PHASE RECALL	PHASE ACTIVE
1				
2	X	6	PED	X
3				X
4				X
5				
6	X	2	PED	X
7				X
8				X

OVERLAPS

O.L. "A" = Ø2, Ø3
O.L. "B" = Ø6, Ø7
O.L. "C" =
O.L. "D" =

TYPE OF INTERCONNECT	
NONE	
TBC	X
CLOSED LOOP	
HARDWIRE	
TONE (FREQ)	
FIBER OPTIC	

TYPE OF PRE-EMPT	
NONE	X
RAILROAD	
EMERGENCY VEHICLE	

TYPE OF LIGHTING	
NONE	X
IN TRAFFIC CONTROL CABINET	
IN SEPARATE CONTROL CABINET	

GENERAL NOTES:

1. ANY ACTUATED PHASE FOR WHICH THERE IS NO CALL SHALL BE SKIPPED.
2. WHEN ONE PHASE IS ON ALONE, ANY NONCONFLICTING PHASE MAY START TIMING CONCURRENTLY WITHOUT A CLEARANCE INTERVAL. (SEE CHART 1 AT LEFT.)

STH 181 (N 76TH ST) & BROWN DEER RD
CITY OF MILWAUKEE
MILWAUKEE COUNTY

SIGNAL NO. M 140

CONTROLLER TYPE: EPAC

DATE 7/07

PAGE NO. 4 OF 4

2

2

LEGEND

- TRAFFIC SIGNAL CONTROLLER AND BASE
- TRAFFIC SIGNAL HEAD, PEDESTAL MOUNTED, TYPE 1 BASE
- (XX) TRAFFIC SIGNAL HEAD, MAST ARM MOUNTED, TYPE 2 BASE
- PEDESTRIAN HEAD WITH PUSH BUTTON
- LUMINAIRE
- PULL BOX, 24" X 42"
- PULL BOX, 24" X 36"
- PULL BOX, 18" X 24"
- PULL BOX, 12" X 24"

N

NORTHRIDGE DRIVE

11+00N

12+00N

STH 181/ 76TH ST

248+00 249+00 250+00 251+00 252+00 253+00

PB1 PB2 PB3 PB4 PB5 PB6 PB7 PB8 PB9 PB10 PB11 PB12 PB13

SB1 SB2 SB3 SB4 SB5 SB6 SB7 SB8 SB9 SB10 SB11 SB12

CB1

NOTE: GRAY SHADED ITEMS ARE TO REMAIN.
BOLD REPRESENTS ITEMS TO BE REMOVED.

TRAFFIC CONTROL SIGNAL

STH 181 (N 76TH STREET) & NORTHRIDGE DR
CITY OF MILWAUKEE
MILWAUKEE COUNTY

SIGNAL NO. M 119

SCALE 0 20

DISTRICT CONTACT: JAH
DESIGNED BY: STRAND ASSOCIATES INC

PAGE 1 OF 1

PROJECT NO: 2140-08-73	HWY: STH 181	COUNTY: MILWAUKEE	TRAFFIC SIGNAL REMOVAL PLAN	SHEET 286	E

SUMMARY FOR INFORMATION ONLY	
WOOD POLES, CLASS IV	5 EA.
GUY WIRES	8 EA.
OH WIRE	500 LF
CONTROLLER/CABINET	1 EA.
LUMINAIRES	5 EA.

GENERAL NOTES

1. FINAL LOCATION OF SIGNAL POLES, CONTROLLER, & HEADS SHALL BE APPROVED BY THE ENGINEER.
2. GUYING OF POLES SHALL BE AS APPROVED BY THE ENGINEER.

NORTHRIDGE DRIVE

STH 181 / 76TH ST

TLE (TYP.)

PROP. R/W (TYP.)

R/W (TYP.)

11+00N

12+00N

248+00 249+00 250+00 251+00 252+00 253+00

3-V 1 3-V 2 3-V 3 3-V 4 3-V 5 3-V 6 3-V 7 3-V 8 3-V 9 3-V 10 3-V 11 3-VA 2 3-VL 4 3-VL 5

IP

LEGEND

- CABLE - OVERHEAD
- LUMINAIRE (150W)
- TYPE 4 WOOD POLE
- LANE DESIGNATION FOR REFERENCE ONLY
- SIGNAL HEAD, OVERHEAD MOUNT
- 3-V 1 MOUNTING CONFIGURATION SIGNALS HEAD NUMBER
- NOTE: ALL LENSES ARE 12-INCH GRAYSHADE REPRESENTS EXISTING
- WORK ZONE
- AREA MAINTAINED FOR TURNING VEHICLES
- S STOP SIGN
- TEMPORARY PAVEMENT
- TEMPORARY CROSSWALK ACCESS
- TEMPORARY BUS STOP PAD
- TEMPORARY PAVEMENT TO BE USED IN FUTURE STAGES
- DRUM WITH/WITHOUT LIGHT, TYPE C
- FLEXIBLE TUBULAR MARKERS
- SIGN MOUNTED ON POST
- SIGN MOUNTED ON TEMPORARY SUPPORT
- TYPE III BARRICADE WITH/WITHOUT SIGN
- REMOVING PAVEMENT MARKINGS

CONFIGURATION WITH HEAD NUMBERS		
3-V (R Y G)	3-VA (R Y G)	3-VL (R L G)
1,3,6,7 8,9,10,11	2	4,5

TRAFFIC CONTROL SIGNAL

STH 181 (N 76TH STREET) & NORTHRIDGE DR
CITY OF MILWAUKEE
MILWAUKEE COUNTY

SIGNAL NO. M 119 SCALE 0 20

DISTRICT CONTACT: JAH
DESIGNED BY: STRAND ASSOCIATES INC.

PAGE 1 OF 7

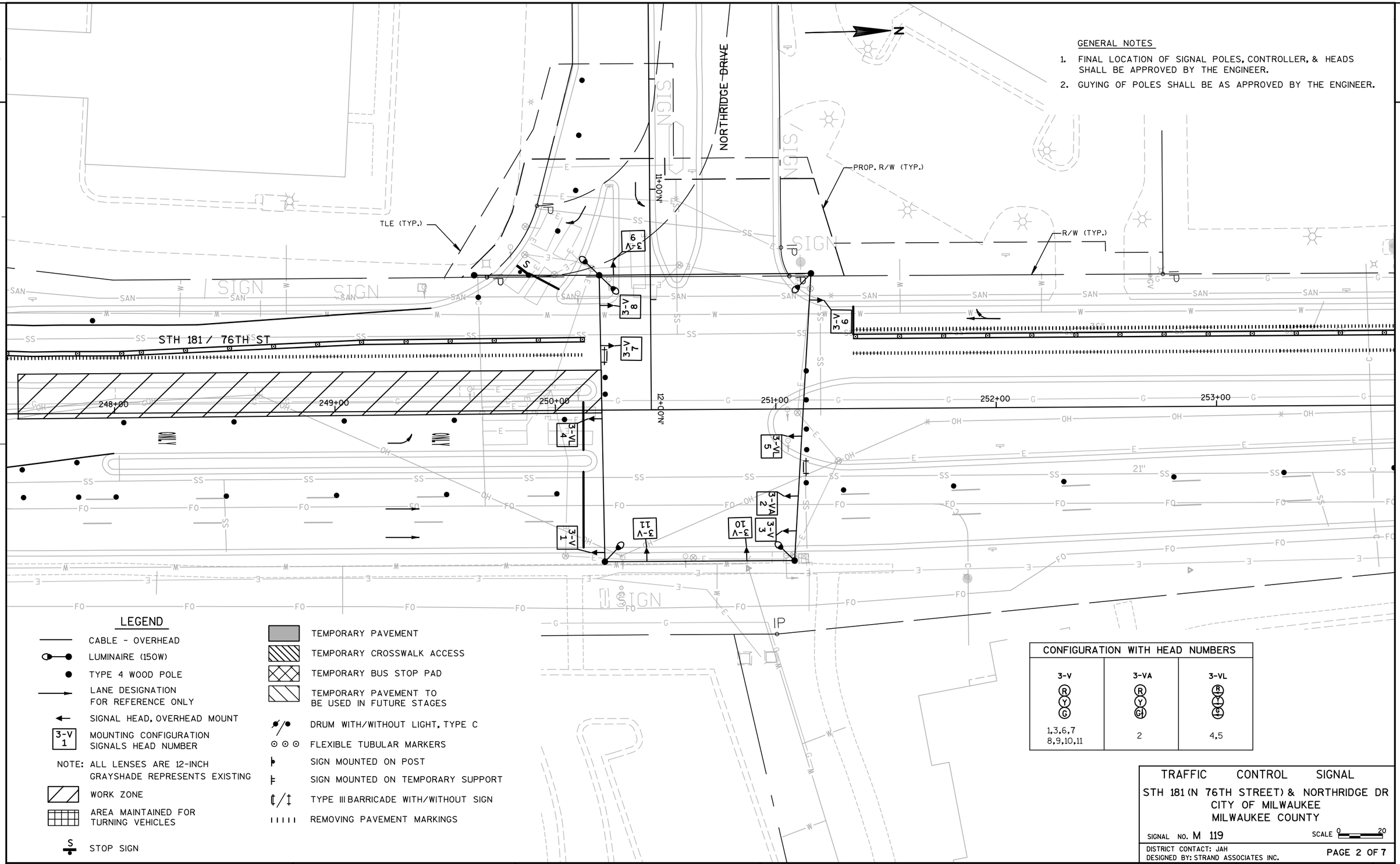
PROJECT NO: 2140-08-73	HWY: STH 181	COUNTY: MILWAUKEE	TEMPORARY SIGNAL PLAN - PRE-STAGE 1	SHEET 287	E

FILE NAME : s:\@sai\051--100\089\099\micros\design\0873\024610_sp.dgn PLOT DATE : 7/30/2007 PLOT BY : $$...plotuser...$$ PLOT NAME : PLOT SCALE : $$.....plotscale.....$$ WISDOT/CADDS SHEET 42

2

GENERAL NOTES

1. FINAL LOCATION OF SIGNAL POLES, CONTROLLER, & HEADS SHALL BE APPROVED BY THE ENGINEER.
2. GUYING OF POLES SHALL BE AS APPROVED BY THE ENGINEER.



LEGEND

- CABLE - OVERHEAD
- LUMINAIRE (150W)
- TYPE 4 WOOD POLE
- LANE DESIGNATION FOR REFERENCE ONLY
- SIGNAL HEAD, OVERHEAD MOUNT
- 3-V 1 — MOUNTING CONFIGURATION SIGNALS HEAD NUMBER
- NOTE: ALL LENSES ARE 12-INCH GRAYSHADE REPRESENTS EXISTING
- WORK ZONE
- AREA MAINTAINED FOR TURNING VEHICLES
- S — STOP SIGN
- TEMPORARY PAVEMENT
- TEMPORARY CROSSWALK ACCESS
- TEMPORARY BUS STOP PAD
- TEMPORARY PAVEMENT TO BE USED IN FUTURE STAGES
- DRUM WITH/WITHOUT LIGHT, TYPE C
- FLEXIBLE TUBULAR MARKERS
- SIGN MOUNTED ON POST
- SIGN MOUNTED ON TEMPORARY SUPPORT
- TYPE III BARRICADE WITH/WITHOUT SIGN
- REMOVING PAVEMENT MARKINGS

CONFIGURATION WITH HEAD NUMBERS

3-V	3-VA	3-VL
R Y G	R Y GH	R Y LT
1,3,6,7 8,9,10,11	2	4,5

TRAFFIC CONTROL SIGNAL

STH 181 (N 76TH STREET) & NORTHRIDGE DR
CITY OF MILWAUKEE
MILWAUKEE COUNTY

SIGNAL NO. M 119 SCALE 0 20

DISTRICT CONTACT: JAH
DESIGNED BY: STRAND ASSOCIATES INC.

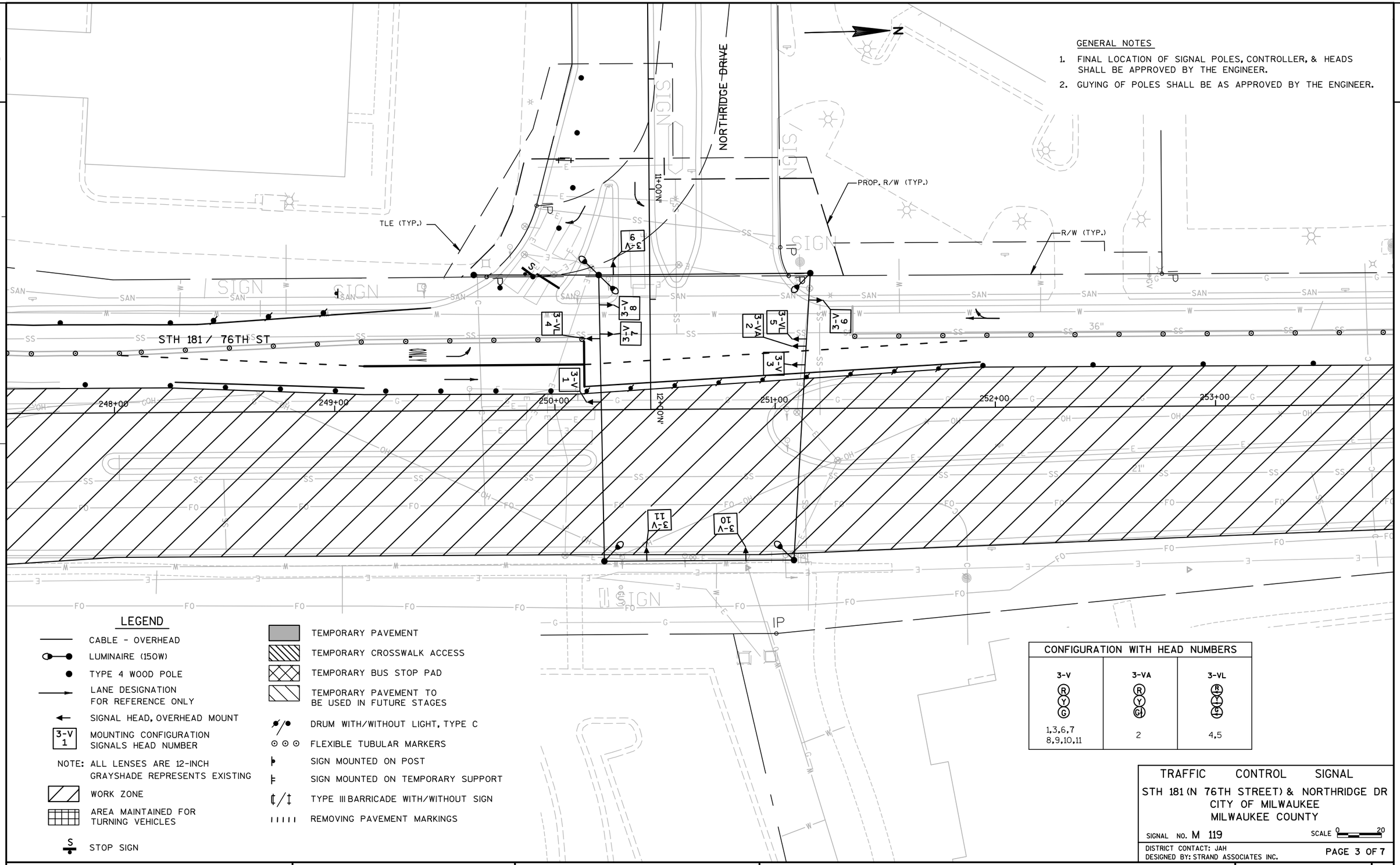
PAGE 2 OF 7

PROJECT NO: 2140-08-73	HWY: STH 181	COUNTY: MILWAUKEE	TEMPORARY SIGNAL PLAN - STAGE 1	SHEET 288	E

2

GENERAL NOTES

1. FINAL LOCATION OF SIGNAL POLES, CONTROLLER, & HEADS SHALL BE APPROVED BY THE ENGINEER.
2. GUYING OF POLES SHALL BE AS APPROVED BY THE ENGINEER.



LEGEND

- CABLE - OVERHEAD
- LUMINAIRE (150W)
- TYPE 4 WOOD POLE
- LANE DESIGNATION FOR REFERENCE ONLY
- SIGNAL HEAD, OVERHEAD MOUNT
- 3-V 1 — MOUNTING CONFIGURATION SIGNALS HEAD NUMBER
- NOTE: ALL LENSES ARE 12-INCH GRAYSHADE REPRESENTS EXISTING
- WORK ZONE
- AREA MAINTAINED FOR TURNING VEHICLES
- S — STOP SIGN
- TEMPORARY PAVEMENT
- TEMPORARY CROSSWALK ACCESS
- TEMPORARY BUS STOP PAD
- TEMPORARY PAVEMENT TO BE USED IN FUTURE STAGES
- DRUM WITH/WITHOUT LIGHT, TYPE C
- FLEXIBLE TUBULAR MARKERS
- SIGN MOUNTED ON POST
- SIGN MOUNTED ON TEMPORARY SUPPORT
- TYPE III BARRICADE WITH/WITHOUT SIGN
- REMOVING PAVEMENT MARKINGS

CONFIGURATION WITH HEAD NUMBERS		
3-V (R Y G)	3-VA (R Y G)	3-VL (R Y G)
1,3,6,7 8,9,10,11	2	4,5

TRAFFIC CONTROL SIGNAL

STH 181 (N 76TH STREET) & NORTHRIDGE DR
CITY OF MILWAUKEE
MILWAUKEE COUNTY

SIGNAL NO. M 119 SCALE 0 20

DISTRICT CONTACT: JAH
DESIGNED BY: STRAND ASSOCIATES INC.

PAGE 3 OF 7

PROJECT NO: 2140-08-73	HWY: STH 181	COUNTY: MILWAUKEE	TEMPORARY SIGNAL PLAN - STAGE 2	SHEET 289	E

FILE NAME : s:\@sai\051--100\089\099\micros\design\0873\024612_sp.dgn PLOT DATE : 7/30/2007 PLOT BY : $$...plotuser...$$ PLOT NAME : PLOT SCALE : $$.....plotscale.....$$ WISDOT/CADDS SHEET 42

2

GENERAL NOTES

1. FINAL LOCATION OF SIGNAL POLES, CONTROLLER, & HEADS SHALL BE APPROVED BY THE ENGINEER.
2. GUYING OF POLES SHALL BE AS APPROVED BY THE ENGINEER.
3. SIGNALS TO BE TURNED OFF DURING STAGE 3. COVER ALL HEADS DURING THIS STAGE.

N

NORTHRIDGE DRIVE

PROP. R/W (TYP.)

R/W (TYP.)

TLE (TYP.)

11+00N

12+00N

248+00 249+00 250+00 251+00 252+00 253+00

STH 181 / 76TH ST

3-V 9 BAGGED
3-V 8 BAGGED
3-V 7 BAGGED
3-VL 5 BAGGED
3-V 6 BAGGED
3-VL 4 BAGGED
3-V 1 BAGGED
3-V 11 BAGGED
3-V 10 BAGGED
3-VA 2 BAGGED
3-V 3 BAGGED

IP

LEGEND

- CABLE - OVERHEAD
- LUMINAIRE (150W)
- TYPE 4 WOOD POLE
- LANE DESIGNATION FOR REFERENCE ONLY
- SIGNAL HEAD, OVERHEAD MOUNT
- 3-V 1 MOUNTING CONFIGURATION SIGNALS HEAD NUMBER
- NOTE: ALL LENSES ARE 12-INCH GRAYSHADE REPRESENTS EXISTING
- WORK ZONE
- AREA MAINTAINED FOR TURNING VEHICLES
- TEMPORARY PAVEMENT
- TEMPORARY CROSSWALK ACCESS
- TEMPORARY BUS STOP PAD
- TEMPORARY PAVEMENT TO BE USED IN FUTURE STAGES
- DRUM WITH/WITHOUT LIGHT, TYPE C
- FLEXIBLE TUBULAR MARKERS
- SIGN MOUNTED ON POST
- SIGN MOUNTED ON TEMPORARY SUPPORT
- TYPE III BARRICADE WITH/WITHOUT SIGN
- REMOVING PAVEMENT MARKINGS

CONFIGURATION WITH HEAD NUMBERS		
3-V	3-VA	3-VL
R Y G	R Y G	R Y Y G

TRAFFIC CONTROL SIGNAL

STH 181 (N 76TH STREET) & NORTHRIDGE DR
CITY OF MILWAUKEE
MILWAUKEE COUNTY

SIGNAL NO. M 119 SCALE 0 20

DISTRICT CONTACT: JAH
DESIGNED BY: STRAND ASSOCIATES INC.

PAGE 4 OF 7

PROJECT NO: 2140-08-73	HWY: STH 181	COUNTY: MILWAUKEE	TEMPORARY SIGNAL PLAN - STAGE 3	SHEET 290	E

2

2

GENERAL NOTES

1. FINAL LOCATION OF SIGNAL POLES, CONTROLLER, & HEADS SHALL BE APPROVED BY THE ENGINEER.
2. GUYING OF POLES SHALL BE AS APPROVED BY THE ENGINEER.

NORTHRIDGE DRIVE

PROP. R/W (TYP.)

R/W (TYP.)

TLE (TYP.)

STH 181 / 76TH ST

STOP BAR?

11+00N

12+00N

248+00 249+00 250+00 251+00 252+00 253+00

3-V 9 3-V 8 3-V 7 3-V 6 3-VL 4 3-VL 5 3-VA 2 3-V 3 3-V 10 3-V 11 3-V 1

ONLY ONLY

IP

LEGEND

- CABLE - OVERHEAD
- LUMINAIRE (150W)
- TYPE 4 WOOD POLE
- LANE DESIGNATION FOR REFERENCE ONLY
- SIGNAL HEAD, OVERHEAD MOUNT
- 3-V 1 MOUNTING CONFIGURATION SIGNALS HEAD NUMBER
- NOTE: ALL LENSES ARE 12-INCH GRAYSHADE REPRESENTS EXISTING
- WORK ZONE
- AREA MAINTAINED FOR TURNING VEHICLES
- S STOP SIGN
- TEMPORARY PAVEMENT
- TEMPORARY CROSSWALK ACCESS
- TEMPORARY BUS STOP PAD
- TEMPORARY PAVEMENT TO BE USED IN FUTURE STAGES
- DRUM WITH/WITHOUT LIGHT, TYPE C
- FLEXIBLE TUBULAR MARKERS
- SIGN MOUNTED ON POST
- SIGN MOUNTED ON TEMPORARY SUPPORT
- TYPE III BARRICADE WITH/WITHOUT SIGN
- REMOVING PAVEMENT MARKINGS

CONFIGURATION WITH HEAD NUMBERS		
3-V (R Y G)	3-VA (R Y G)	3-VL (R Y G)
1,3,6,7 8,9,10,11	2	4,5

TRAFFIC CONTROL SIGNAL

STH 181 (N 76TH STREET) & NORTHRIDGE DR
CITY OF MILWAUKEE
MILWAUKEE COUNTY

SIGNAL NO. M 119 SCALE 0 20

DISTRICT CONTACT: JAH
DESIGNED BY: STRAND ASSOCIATES INC.

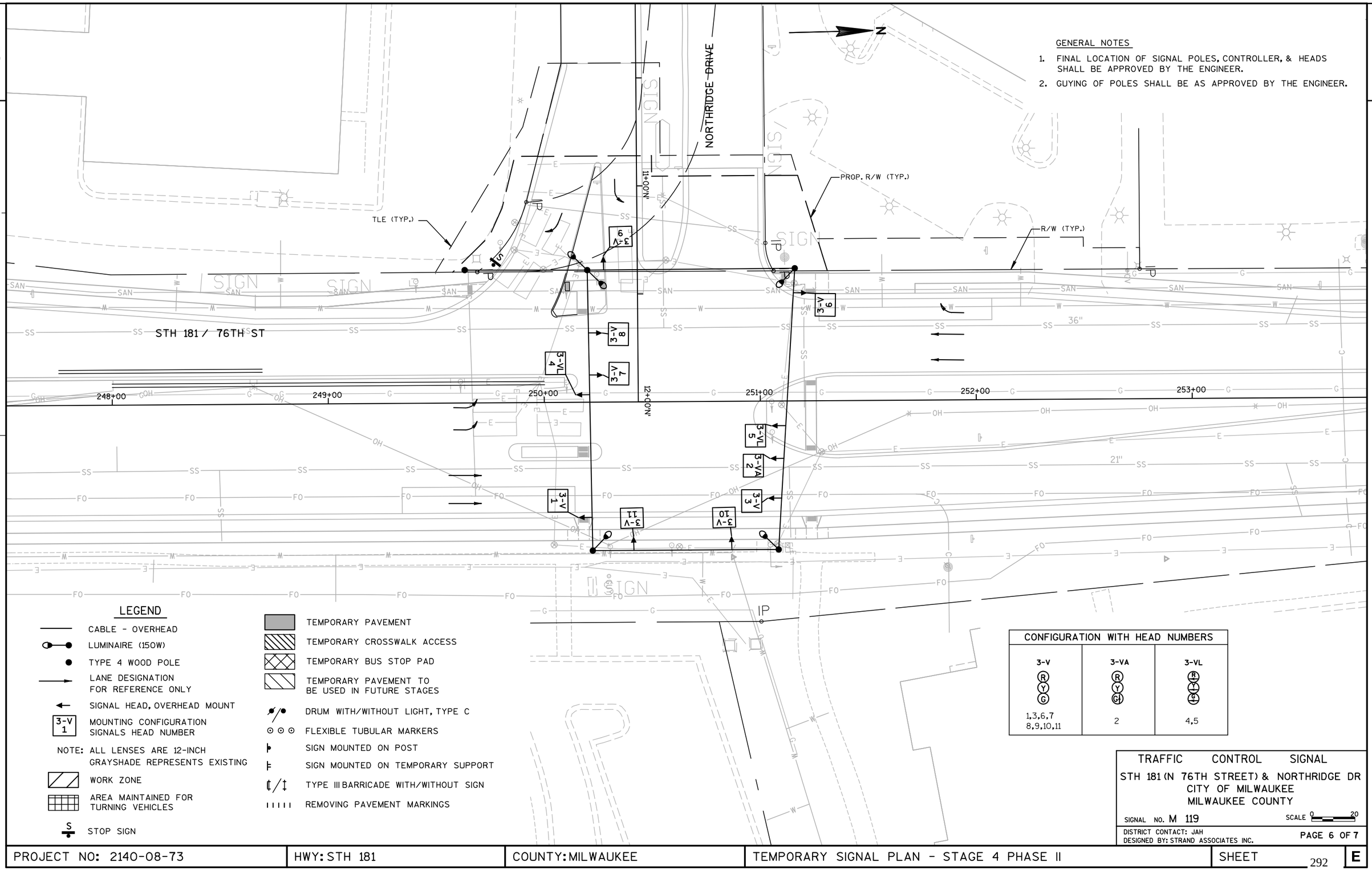
PAGE 5 OF 7

PROJECT NO: 2140-08-73	HWY: STH 181	COUNTY: MILWAUKEE	TEMPORARY SIGNAL PLAN - STAGE 4 PHASE I	SHEET 291	E

2

GENERAL NOTES

1. FINAL LOCATION OF SIGNAL POLES, CONTROLLER, & HEADS SHALL BE APPROVED BY THE ENGINEER.
2. GUYING OF POLES SHALL BE AS APPROVED BY THE ENGINEER.



LEGEND

- CABLE - OVERHEAD
- LUMINAIRE (150W)
- TYPE 4 WOOD POLE
- LANE DESIGNATION FOR REFERENCE ONLY
- SIGNAL HEAD, OVERHEAD MOUNT
- 3-V 1 MOUNTING CONFIGURATION SIGNALS HEAD NUMBER
- NOTE: ALL LENSES ARE 12-INCH GRAYSHADE REPRESENTS EXISTING
- WORK ZONE
- AREA MAINTAINED FOR TURNING VEHICLES
- S STOP SIGN
- TEMPORARY PAVEMENT
- TEMPORARY CROSSWALK ACCESS
- TEMPORARY BUS STOP PAD
- TEMPORARY PAVEMENT TO BE USED IN FUTURE STAGES
- DRUM WITH/WITHOUT LIGHT, TYPE C
- FLEXIBLE TUBULAR MARKERS
- SIGN MOUNTED ON POST
- SIGN MOUNTED ON TEMPORARY SUPPORT
- TYPE III BARRICADE WITH/WITHOUT SIGN
- REMOVING PAVEMENT MARKINGS

CONFIGURATION WITH HEAD NUMBERS		
3-V (R Y G)	3-VA (R Y G)	3-VL (R L G)
1,3,6,7 8,9,10,11	2	4,5

TRAFFIC CONTROL SIGNAL

STH 181 (N 76TH STREET) & NORTHRIDGE DR
CITY OF MILWAUKEE
MILWAUKEE COUNTY

SIGNAL NO. M 119 SCALE 0 20

DISTRICT CONTACT: JAH
DESIGNED BY: STRAND ASSOCIATES INC.

PAGE 6 OF 7

PROJECT NO: 2140-08-73	HWY: STH 181	COUNTY: MILWAUKEE	TEMPORARY SIGNAL PLAN - STAGE 4 PHASE II	SHEET 292	E

SEQUENCE OF OPERATION

RING 1

	HEAD NUMBERS	Ø1 R/W	Ø1 **	Ø1	Ø1	Ø2 R/W	Ø2 **	Ø2	Ø2	Ø3 R/W	Ø3 **	Ø3	Ø3	Ø4 R/W	Ø4 **	Ø4	Ø4	FLASH
			CLEAR TO				CLEAR TO				CLEAR TO				CLEAR TO			
Ø1	4,5	G	Y	R		R	R	R										R
Ø2	6,7,8	R	R	R		G	Y	R										R
Ø3																		
Ø4																		
Ø5																		
Ø6	1,2,3	R	R	R		R	R	R										R
Ø7	9,10,11	R	R	R		R	R	R										R
Ø8																		
OLA																		
Ø4P																		
Ø6P																		
Ø8P																		

RING 2

	HEAD NUMBERS	Ø5 R/W	Ø5 **	Ø5	Ø5	Ø6 R/W	Ø6 **	Ø6	Ø6	Ø7 R/W	Ø7 **	Ø7	Ø7	Ø8 R/W	Ø8 **	Ø8	Ø8
			CLEAR TO				CLEAR TO				CLEAR TO				CLEAR TO		
Ø1	4,5					R	R	R		R	R	R					
Ø2	6,7,8					R	R	R		R	R	R					
Ø3																	
Ø4																	
Ø5																	
Ø6	1,2,3					G,G↑	Y	R		R	R	R					
Ø7	9,10,11					R	R	R		G	Y	R					
Ø8																	
OLA																	
Ø4P																	
Ø6P																	
Ø8P																	

BARRIER

** CLEARANCE TO A PHASE IN CONFLICT WITH THIS PHASE ON (SEE CHART 1)

N

CONTROLLER LOGIC

PHASE NUMBER	PHASE LOCKING	DUAL ENTRY W / Ø	PHASE RECALL	PHASE ACTIVE
1			MAX	X
2			MAX	X
3				
4				
5				
6			MAX	X
7			MAX	X
8				

OVERLAPS

O.L. "A" =
O.L. "B" =
O.L. "C" =
O.L. "D" =

SIGNAL PHASING NOTES

1. TURN OFF SIGNALS DURING STAGE 3.

TYPE OF INTERCONNECT	
NONE	
TBC	X
CLOSED LOOP	
HARDWIRE	
TONE (FREQ)	
FIBER OPTIC	

TYPE OF PRE-EMPT	
NONE	X
RAILROAD	
EMERGENCY VEHICLE	

TYPE OF LIGHTING	
NONE	
IN TRAFFIC CONTROL CABINET	X
IN SEPARATE CONTROL CABINET	

GENERAL NOTES:

1. ANY ACTUATED PHASE FOR WHICH THERE IS NO CALL SHALL BE SKIPPED.
2. WHEN ONE PHASE IS ON ALONE, ANY NONCONFLICTING PHASE MAY START TIMING CONCURRENTLY WITHOUT A CLEARANCE INTERVAL. (SEE CHART 1 BELOW.)

CHART 1

PHASE ON	NONCONFLICTING PHASE ALLOWED TO TIME CONCURRENTLY	PHASES IN CONFLICT WITH PHASE ON
Ø1	6	2,7
Ø2	6	1,7
Ø3		
Ø4		
Ø5		
Ø6	1 OR 2	7
Ø7	NONE	1,2,6
Ø8		

STH 181 & NORTHRIDGE DRIVE
CITY OF MILWAUKEE
MILWAUKEE COUNTY

SIGNAL NO. M 119

CONTROLLER TYPE:

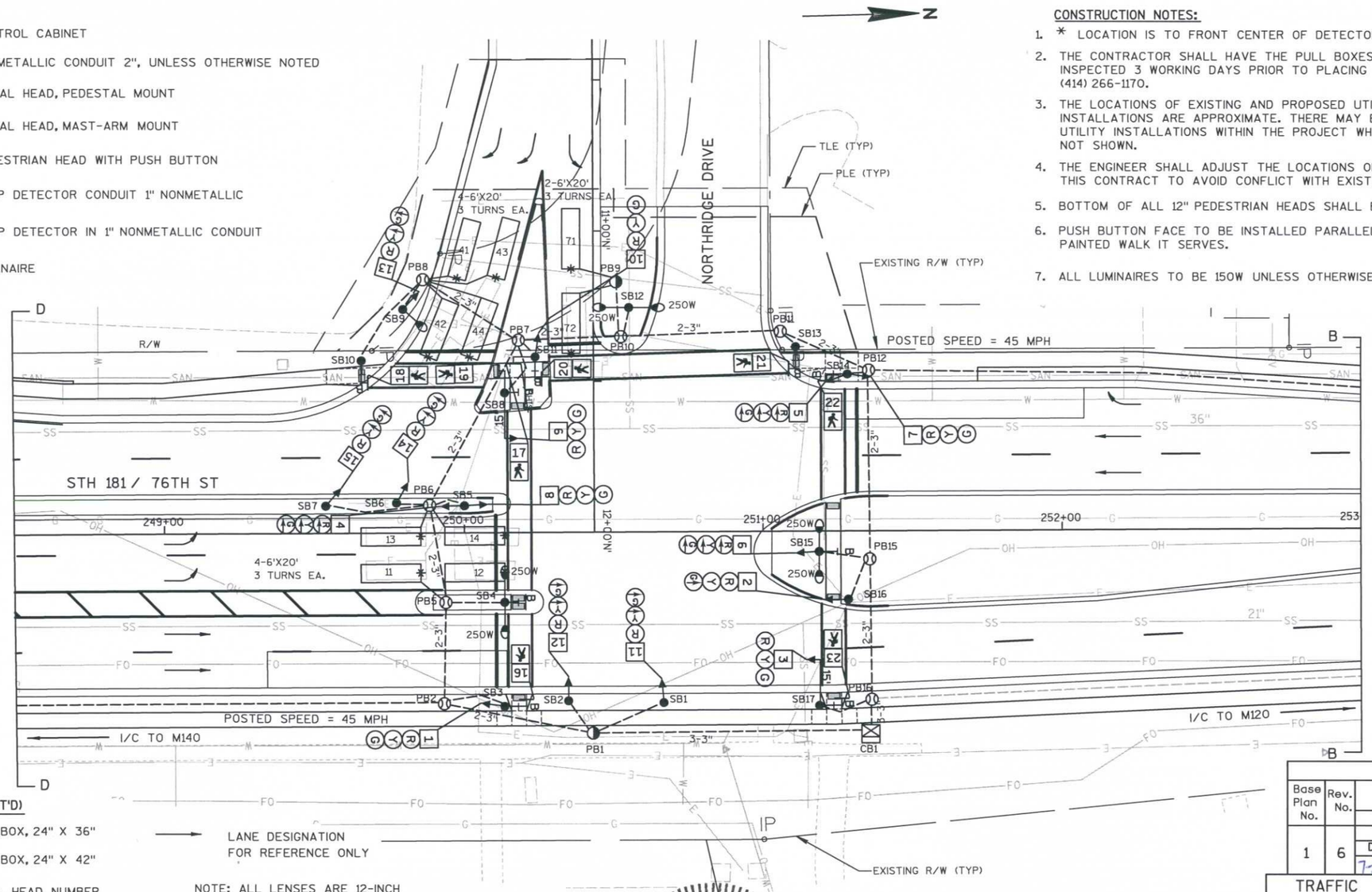
DATE 7/07

FILE NAME : s:\@sai\051--100\089\099\micros\design\0873\024616_ph.dgn PLOT DATE : 7/30/2007 PLOT BY : $$...plotuser...$$ PLOT NAME : PLOT SCALE : $$.....plotscale.....$$ WISDOT/CADDS SHEET 42

2

LEGEND

- CONTROL CABINET
- NONMETALLIC CONDUIT 2", UNLESS OTHERWISE NOTED
- SIGNAL HEAD, PEDESTAL MOUNT
- (XX) SIGNAL HEAD, MAST-ARM MOUNT
- B PEDESTRIAN HEAD WITH PUSH BUTTON
- LOOP DETECTOR CONDUIT 1" NONMETALLIC
- LOOP DETECTOR IN 1" NONMETALLIC CONDUIT
- LUMINAIRE



CONSTRUCTION NOTES:

1. * LOCATION IS TO FRONT CENTER OF DETECTOR LOOP.
2. THE CONTRACTOR SHALL HAVE THE PULL BOXES AND CONDUIT RUNS INSPECTED 3 WORKING DAYS PRIOR TO PLACING SIGNAL CABLE INTO SYSTEM. (414) 266-1170.
3. THE LOCATIONS OF EXISTING AND PROPOSED UTILITY INSTALLATIONS ARE APPROXIMATE. THERE MAY BE OTHER UTILITY INSTALLATIONS WITHIN THE PROJECT WHICH ARE NOT SHOWN.
4. THE ENGINEER SHALL ADJUST THE LOCATIONS OF ITEMS UNDER THIS CONTRACT TO AVOID CONFLICT WITH EXISTING UTILITY FACILITIES.
5. BOTTOM OF ALL 12" PEDESTRIAN HEADS SHALL BE MOUNTED AT 10'.
6. PUSH BUTTON FACE TO BE INSTALLED PARALLEL TO THE PAINTED WALK IT SERVES.
7. ALL LUMINAIRES TO BE 150W UNLESS OTHERWISE NOTED.

LEGEND (CONT'D)

- PULL BOX, 24" X 36"
- PULL BOX, 24" X 42"
- 8 SIGNAL HEAD NUMBER
- R RED CIRCULAR INDICATOR
- Y YELLOW CIRCULAR INDICATOR
- G GREEN CIRCULAR INDICATOR
- Y YELLOW ARROW
- G GREEN ARROW
- DON'T WALK INDICATOR 12"
  WALK INDICATOR 12"

LANE DESIGNATION FOR REFERENCE ONLY

NOTE: ALL LENSES ARE 12-INCH
GRAYSHADE REPRESENTS EXISTING

WISCONSIN
LUCAS R. HOLMAN
E-38316
MADISON, WI
PROFESSIONAL ENGINEER
7/25/07

REVISIONS						
Base Plan No.	Rev. No.	NEW GEOMETRICS				Cont. Type
		APPROVALS				
		REGIONAL		CENTRAL OFFICE		
		Date	By	Date	By	
1	6	7-31-07	[illegible]			EPAC

9-9-03	ADD LOOPS 21, 22, 61, 62
10-1-99	CHANGE YELLOW FLASH TO RED
3-2-94	INSTALL NEW CONTROLLER, LOOP DETECTORS, RECABLE SERVICE
7-17-78	REMOVED MAGNETIC DETECTORS & INSTALLED PRETIMED CONTROLLER.
6-27-78	INSTALLED 8" PEDESTRIAN SIGNALS & PUSH BUTTONS AT NORTH CROSSWALK
DATE OF INITIAL INSTALLATION 5/1973	

TRAFFIC CONTROL SIGNAL

STH 181 (N 76TH STREET) & NORTHRIDGE DR
CITY OF MILWAUKEE
MILWAUKEE COUNTY

SIGNAL NO. M 119 SCALE 0 20

WISCONSIN DEPARTMENT OF TRANSPORTATION

APPROVAL RECOMMENDED
Date 9/19/77 ROBERT MOE, DISTRICT TRAFFIC ENGINEER

APPROVED
Date 10/28/77 H. O. PRICE, STATE TRAFFIC ENGINEER

DISTRICT CONTACT: JAH
DESIGNED BY: STRAND ASSOCIATES INC

PAGE 1 OF 4

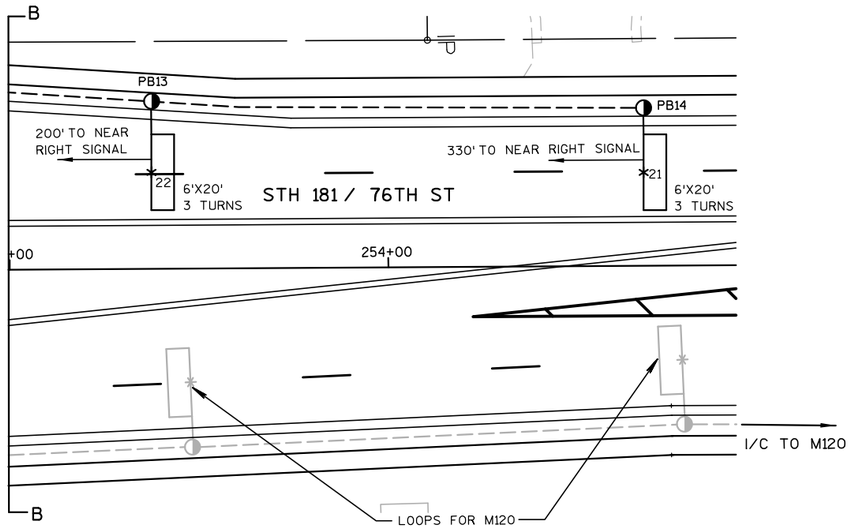
7-31-07

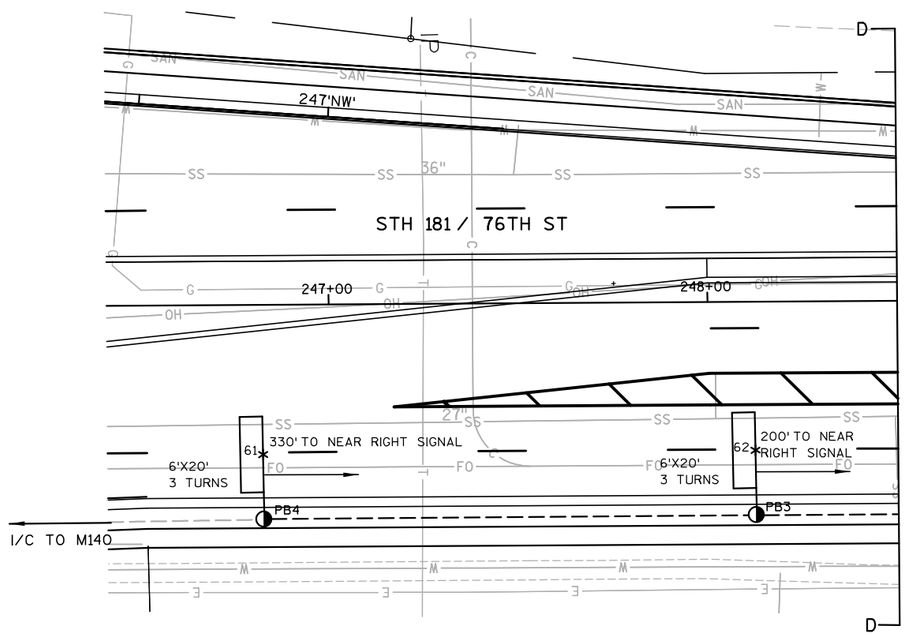
PROJECT NO: 2140-08-73	HWY: STH 181	COUNTY: MILWAUKEE	TRAFFIC SIGNAL PLAN	SHEET E

FILE NAME : s:\oSAI\051--100\089\099\Micros\DESIGN\0873\024620_sp.dgn PLOT DATE : 7/25/2007 PLOT BY : $$...plotuser...$$ PLOT NAME : PLOT SCALE : $$.....plotscale.....$$ WISDOT/CADDS SHEET 42

2

N





TRAFFIC CONTROL SIGNAL

STH 181 (N 76TH STREET) & NORTHRIDGE DR
CITY OF MILWAUKEE
MILWAUKEE COUNTY

SIGNAL NO. M 119

SCALE 0 20

DISTRICT CONTACT: JAH
DESIGNED BY: STRAND ASSOCIATES INC

PAGE 2 OF 4

PROJECT NO: 2140-08-73	HWY: STH 181	COUNTY: MILWAUKEE	TRAFFIC SIGNAL PLAN	SHEET 295	E

2

SEQUENCE OF OPERATION

RING 1	HEAD NUMBERS	Ø1 R/W	Ø1 **	Ø1 CLEAR TO 4,7,8	Ø1 CLEAR TO 8	Ø2 R/W	Ø2 **	Ø2 CLEAR TO	Ø3 R/W	Ø3 **	Ø3 CLEAR TO	Ø4 R/W	Ø4 **	Ø4 CLEAR TO 1,7,8	FLASH
Ø1															
Ø2	7,8,9	R	R	R		G	Y	R				R	R	R	R
Ø3															
Ø4															
Ø5															
Ø6	1,2,3	R	R	R		R	R	R				R	R	R	R
Ø7	10,11,12	R	R	R		R	R	R				R	R	R	R
Ø8															
OLA	13,14,15	G	Y	R	G G	R	R	R				G	Y	R G G	R
OLB	4,5,6	G	Y	R	G G	R	R	R				R	R	R	R
Ø2P	18,19,20,21	DW	DW	DW		*	DW	DW				DW	DW	DW	
Ø7P	16,17	DW	DW	DW		DW	DW	DW				DW	DW	DW	
Ø8P	22,23	DW	DW	DW		DW	DW	DW				DW	DW	DW	

RING 2	HEAD NUMBERS	Ø5 R/W	Ø5 **	Ø5 CLEAR TO	Ø6 R/W	Ø6 **	Ø6 CLEAR TO	Ø7 R/W	Ø7 **	Ø7 CLEAR TO 1,4,8	Ø8 R/W	Ø8 **	Ø8 CLEAR TO 1,4,7	Ø8 CLEAR TO 1
Ø1														
Ø2	7,8,9				R	R	R	R	R	R	R	R	R	R
Ø3														
Ø4														
Ø5														
Ø6	1,2,3				G G	Y	R	R	R	R	R	R	R	R
Ø7	10,11,12				R	R	R	G	Y	R	R	R	R	R
Ø8														
OLA	13,14,15				R	R	R	G	Y	R G G	G	Y	R G G	
OLB	4,5,6				R	R	R	R	R	R	G	Y	R	G G
Ø2P	18,19,20,21				DW	DW	DW	DW	DW	DW	DW	DW	DW	
Ø7P	16,17				DW	DW	DW	*	DW	DW	DW	DW	DW	
Ø8P	22,23				DW	DW	DW	DW	DW	DW	*	DW	DW	

BARRIER

** CLEARANCE TO A PHASE IN CONFLICT WITH THIS PHASE ON (SEE CHART 1)

* WHEN CALLED, TIMED STEADY WALK, THEN FLASHING DON'T WALK, THEN GOES TO STEADY DON'T WALK

CHART 1

PHASE ON	NONCONFLICTING PHASE ALLOWED TO TIME CONCURRENTLY	PHASES IN CONFLICT WITH PHASE ON
Ø1	6	2,4,7,8
Ø2	6	1,4,7,8
Ø3		
Ø4	7 OR 8	1,2,6
Ø5		
Ø6	1 OR 2	4,7,8
Ø7	4	1,2,6,8
Ø8	4	1,2,6,7

DETECTOR LOGIC

DETECTOR NUMBER	AMPLIFIER CHANNEL NUMBER	DETECTOR OPERATION: CALLS AND EXTENDS	DETECTOR OPERATION: CALLS ONLY	DETECTOR OPERATION: EXTENDS ONLY	PHASE CALLED	PHASE EXTENDED	DETECTOR DISCONNECT PHASE	CALLING DELAY	EXTENSION STRETCH	SIZE	NUMBER OF TURNS
11	1	X			1	1				6X20	3
12	1	X			1	1				6X20	3
13	2	X			1	1				6X20	3
14	2	X			1	1				6X20	3
21	3	X			2	2				6X20	3
22	3	X			2	2				6X20	3
41	4	X			4	4	*	X		6X20	3
42	4	X			4	4	*	X		6X20	3
43	5	X			4	4	*			6X20	3
44	5	X			4	4	*			6X20	3
61	6	X			6	6				6X20	3
62	6	X			6	6				6X20	3
71	7	X			7	7				6X20	3
72	7	X			7	7				6X20	3

CONTROLLER LOGIC

PHASE NUMBER	PHASE LOCKING	DUAL ENTRY W / Ø	PHASE RECALL	PHASE ACTIVE
1		6		X
2	X	6	MIN.	X
3				
4		8		X
5				
6	X	2	MIN.	X
7		4		X
8		4		X

OVERLAPS

O.L. "A" =1,4,7,8
O.L. "B" =1,8
O.L. "C" =
O.L. "D" =

N

TYPE OF INTERCONNECT	
NONE	
TBC	X
CLOSED LOOP	
HARDWIRE	
TONE (FREQ)	
FIBER OPTIC	

TYPE OF PRE-EMPT	
NONE	X
RAILROAD	
EMERGENCY VEHICLE	

TYPE OF LIGHTING	
NONE	
IN TRAFFIC CONTROL CABINET	X
IN SEPARATE CONTROL CABINET	

GENERAL NOTES:

1. ANY ACTUATED PHASE FOR WHICH THERE IS NO CALL SHALL BE SKIPPED.
2. WHEN ONE PHASE IS ON ALONE, ANY NONCONFLICTING PHASE MAY START TIMING CONCURRENTLY WITHOUT A CLEARANCE INTERVAL. (SEE CHART 1 AT LEFT.)

* LOOPS 41, 42, 43 AND 44 DISCONNECT DURING PHASE 4 WITH PHASE 1 CHECK

STH 181 & NORTHRIDGE DRIVE
CITY OF MILWAUKEE
MILWAUKEE COUNTY

SIGNAL NO. M 119
CONTROLLER TYPE: EPAC
DATE 7/07
PAGE NO. 3 OF 4

PROJECT NO: 2140-08-73 | HWY: STH 181 | COUNTY: MILWAUKEE | SEQUENCE OF OPERATIONS | SHEET NO: 296 | E

PROJECT ID:	2140-08-73
INTERSECTION:	STH 181(N 76TH ST.) & NORTHRIDGE DRIVE

Signal Wire Color Coding	BLK - black	RED - red	GRN - green
	WHT - white	BLU - blue	ORG - orange

CB1 TO	JUMPER	# OF COND.	HEAD NO.	PHASE	SIGNAL INDICATION WIRE COLOR								PED BUTTON	OTHER
					RED	YELLOW	GREEN	<RED	<YELLOW>	<GREEN>	D/WALK	WALK		
SB1		12	11	7	RED				ORG	GRN				
SB2		12	12	7	RED				ORG	GRN				
SB3		12	1	6	RED	ORG	GRN							
			16	4							BLK	BLU		
			BUTTON	4									WHT/BLK	
SB4		5	BUTTON	4									BLK	
SB5		12	8	2	RED	ORG	GRN							
			4	1				RED/BLK	ORG/BLK	GRN/BLK				
SB6		12	14	OLA	RED				ORG	GRN				
SB7		12	15	OLA	RED				ORG	GRN				
SB8		12	9	2	RED	ORG	GRN							
			19	2							BLK	BLU		
			BUTTON	4									WHT/BLK	
SB9		12	13	OLA	RED				ORG	GRN				
SB10		5	18	2							RED	GRN		
			BUTTON	2									BLK	
SB11		12	10	4	RED	ORG	GRN							
			17	4							BLK	BLU		
			20	2							BLK	BLU		
			BUTTON	2									WHT/BLK	
SB13		5	21	2							RED	GRN		
			BUTTON	2									BLK	
SB14		12	7	2	RED	ORG	GRN							
			5	1				RED/BLK	ORG/BLK	GRN/BLK				
			22	8							BLK	BLU		
			BUTTON	8									WHT/BLK	
SB15		12	6	1				RED	ORG	GRN				
			BUTTON	8									WHT/BLK	
SB16		12	2	6	RED	ORG				GRN				
SB17		12	3	6	RED	ORG	GRN							
			23	8							BLK	BLU		
			BUTTON	8									WHT/BLK	

Equipment grounding conductor 10 AWG Green XLP	
From	To
CB1	SB1
SB1	SB2
SB2	SB3
SB3	SB4
SB4	SB5
SB5	SB6
SB6	SB7
SB7	SB8
SB8	SB9
SB9	SB10
SB10	SB11
SB11	SB12
SB12	SB13
SB13	SB14
SB14	SB15
SB15	SB16
SB16	SB17
SB17	CB1

Pull Box Bonding Jumper 10 AWG Green XLP	
From	To
SB1	PB1
SB3	PB2
SB4	PB5
SB5	PB6
SB8	PB7
SB9	PB8
SB12	PB10
SB13	PB11
SB14	PB12
SB15	PB15
SB17	PB16

Lighting UF 12 AWG w/ground	
From	To
CB1	SB15
SB15	SB12
CB1	SB4
SB4	SB9

*Use the white conductor in the signal cable as the grounded conductor for all traffic signal indications.

*Ensure the grounded conductor in the feeder cable and the pole cables are both 18" longer than the ungrounded conductors.

*At the signal bases, connect one terminal from the pedestrian push buttons to the color indicated in the chart. Connect the other terminal to the grounded conductor.

"Other" column may include shadow box sign

TRAFFIC CONTROL SIGNAL

STH 181 (N 76TH ST) & NORTHRIDGE DR
CITY OF MILWAUKEE
MILWAUKEE COUNTY

SIGNAL NO. M 119 SCALE 0 20

DISTRICT CONTACT: JAH
DESIGNED BY: STRAND ASSOCIATES INC.

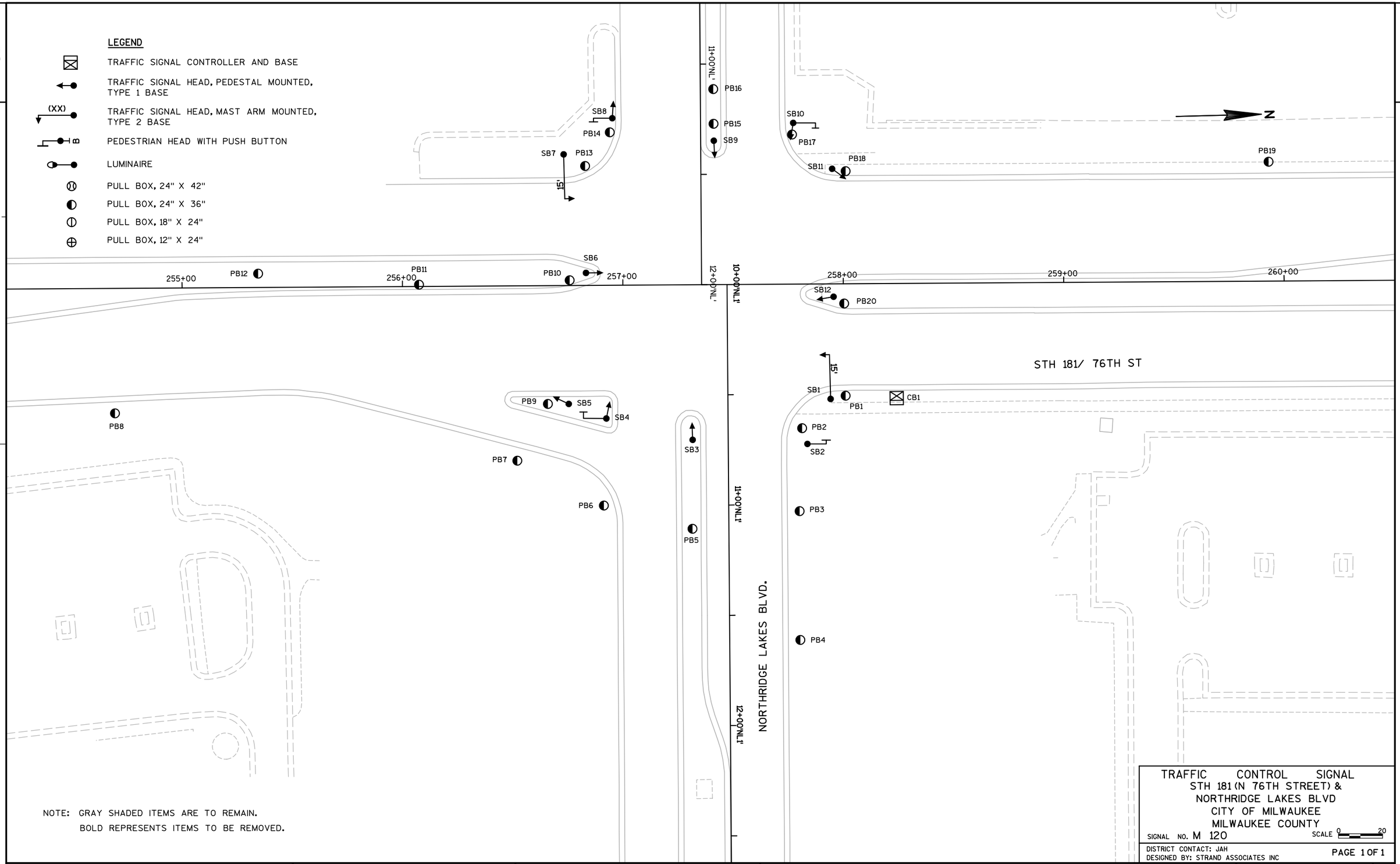
PAGE 4 OF 4

2

2

LEGEND

- TRAFFIC SIGNAL CONTROLLER AND BASE
- TRAFFIC SIGNAL HEAD, PEDESTAL MOUNTED, TYPE 1 BASE
- (XX) TRAFFIC SIGNAL HEAD, MAST ARM MOUNTED, TYPE 2 BASE
- B PEDESTRIAN HEAD WITH PUSH BUTTON
- LUMINAIRE
- PULL BOX, 24" X 42"
- PULL BOX, 24" X 36"
- PULL BOX, 18" X 24"
- PULL BOX, 12" X 24"



NOTE: GRAY SHADED ITEMS ARE TO REMAIN.
BOLD REPRESENTS ITEMS TO BE REMOVED.

TRAFFIC CONTROL SIGNAL
STH 181 (N 76TH STREET) &
NORTHRIDGE LAKES BLVD
CITY OF MILWAUKEE
MILWAUKEE COUNTY

SIGNAL NO. M 120 SCALE 0 20

DISTRICT CONTACT: JAH
DESIGNED BY: STRAND ASSOCIATES INC

PAGE 1 OF 1

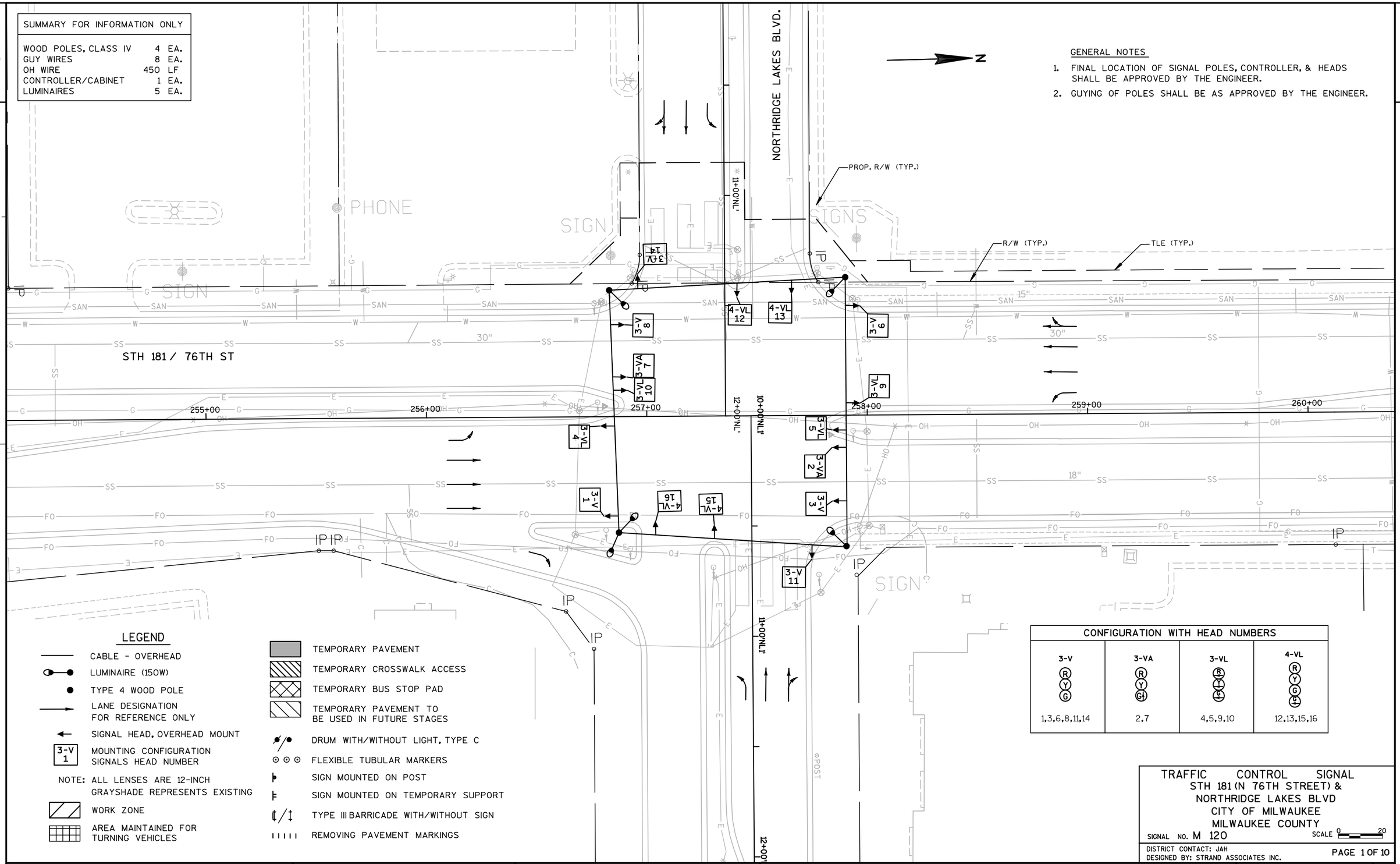
PROJECT NO: 2140-08-73	HWY: STH 181	COUNTY: MILWAUKEE	TRAFFIC SIGNAL REMOVAL PLAN	SHEET	E

FILE NAME : s:\@sai\051--100\089\099\micros\design\0873\024700_cd.dgn PLOT DATE : 7/30/2007 PLOT BY : $$...plotuser...$$ PLOT NAME : PLOT SCALE : $$.....plotscale.....$$ WISDOT/CADDS SHEET 42

SUMMARY FOR INFORMATION ONLY	
WOOD POLES, CLASS IV	4 EA.
GUY WIRES	8 EA.
OH WIRE	450 LF
CONTROLLER/CABINET	1 EA.
LUMINAIRES	5 EA.

GENERAL NOTES

1. FINAL LOCATION OF SIGNAL POLES, CONTROLLER, & HEADS SHALL BE APPROVED BY THE ENGINEER.
2. GUYING OF POLES SHALL BE AS APPROVED BY THE ENGINEER.



LEGEND

- CABLE - OVERHEAD
- LUMINAIRE (150W)
- TYPE 4 WOOD POLE
- LANE DESIGNATION FOR REFERENCE ONLY
- SIGNAL HEAD, OVERHEAD MOUNT
- 3-V 1 — MOUNTING CONFIGURATION SIGNALS HEAD NUMBER
- NOTE: ALL LENSES ARE 12-INCH GRAYSHADE REPRESENTS EXISTING
- WORK ZONE
- AREA MAINTAINED FOR TURNING VEHICLES
- TEMPORARY PAVEMENT
- TEMPORARY CROSSWALK ACCESS
- TEMPORARY BUS STOP PAD
- TEMPORARY PAVEMENT TO BE USED IN FUTURE STAGES
- DRUM WITH/WITHOUT LIGHT, TYPE C
- FLEXIBLE TUBULAR MARKERS
- SIGN MOUNTED ON POST
- SIGN MOUNTED ON TEMPORARY SUPPORT
- TYPE III BARRICADE WITH/WITHOUT SIGN
- REMOVING PAVEMENT MARKINGS

CONFIGURATION WITH HEAD NUMBERS			
3-V (R Y G)	3-VA (R Y G)	3-VL (R Y G)	4-VL (R Y G G)
1,3,6,8,11,14	2,7	4,5,9,10	12,13,15,16

TRAFFIC CONTROL SIGNAL
STH 181 (N 76TH STREET) &
NORTHRIDGE LAKES BLVD
CITY OF MILWAUKEE
MILWAUKEE COUNTY

SIGNAL NO. M 120 SCALE 0 20

DISTRICT CONTACT: JAH
DESIGNED BY: STRAND ASSOCIATES INC.

PROJECT NO: 2140-08-73	HWY: STH 181	COUNTY: MILWAUKEE	TEMPORARY SIGNAL PLAN - PRE-STAGE 1	SHEET 299	E

FILE NAME : s:\@sai\051--100\089\099\micros\design\0873\024710_sp.dgn PLOT DATE : 7/30/2007 PLOT BY : $$...plotuser...$$ PLOT NAME : PLOT SCALE : $$.....plotscale.....$$ WISDOT/CADDS SHEET 42

2

2

NORTHRIDGE LAKES BLVD.

N

GENERAL NOTES

1. FINAL LOCATION OF SIGNAL POLES, CONTROLLER, & HEADS SHALL BE APPROVED BY THE ENGINEER.
2. GUYING OF POLES SHALL BE AS APPROVED BY THE ENGINEER.

PROP. R/W (TYP.)

R/W (TYP.)

TLE (TYP.)

STH 181 / 76TH ST

11+00 NL

12+00 NL

255+00 256+00 257+00 258+00 259+00 260+00

3-V 14
3-V 8
3-VA 7
3-VL 10
4-VL 12
4-VL 13
3-V 6
3-VL 9
3-VL 4
3-V 1
4-VL 16
4-VL 15
3-VL 5
3-VA 2
3-V 3
3-V 11

PHONE SIGN SIGN SIGNS IP

LEGEND

- CABLE - OVERHEAD
- LUMINAIRE (150W)
- TYPE 4 WOOD POLE
- LANE DESIGNATION FOR REFERENCE ONLY
- SIGNAL HEAD, OVERHEAD MOUNT
- 3-V 1 — MOUNTING CONFIGURATION SIGNALS HEAD NUMBER
- NOTE: ALL LENSES ARE 12-INCH GRAYSHADE REPRESENTS EXISTING
- WORK ZONE
- AREA MAINTAINED FOR TURNING VEHICLES
- TEMPORARY PAVEMENT
- TEMPORARY CROSSWALK ACCESS
- TEMPORARY BUS STOP PAD
- TEMPORARY PAVEMENT TO BE USED IN FUTURE STAGES
- DRUM WITH/WITHOUT LIGHT, TYPE C
- FLEXIBLE TUBULAR MARKERS
- SIGN MOUNTED ON POST
- SIGN MOUNTED ON TEMPORARY SUPPORT
- TYPE III BARRICADE WITH/WITHOUT SIGN
- REMOVING PAVEMENT MARKINGS

CONFIGURATION WITH HEAD NUMBERS			
3-V (R Y G)	3-VA (R Y G)	3-VL (R Y G)	4-VL (R Y G)
1,3,6,8,11,14	2,7	4,5,9,10	12,13,15,16

TRAFFIC CONTROL SIGNAL
STH 181 (N 76TH STREET) &
NORTHRIDGE LAKES BLVD
CITY OF MILWAUKEE
MILWAUKEE COUNTY

SIGNAL NO. M 120 SCALE 0 20

DISTRICT CONTACT: JAH
DESIGNED BY: STRAND ASSOCIATES INC.

PAGE 2 OF 10

PROJECT NO: 2140-08-73	HWY: STH 181	COUNTY: MILWAUKEE	TEMPORARY SIGNAL PLAN - STAGE 1	SHEET 300	E

FILE NAME : s:\@sai\051--100\089\099\micros\design\0873\024711_sp.dgn PLOT DATE : 7/30/2007 PLOT BY : $$...plotuser...$$ PLOT NAME : PLOT SCALE : $$.....plotscale.....$$

WISDOT/CADDS SHEET 42

2

GENERAL NOTES

1. FINAL LOCATION OF SIGNAL POLES, CONTROLLER, & HEADS SHALL BE APPROVED BY THE ENGINEER.
2. GUYING OF POLES SHALL BE AS APPROVED BY THE ENGINEER.

N

NORTHRIDGE LAKES BLVD.

PROP. R/W (TYP.)

R/W (TYP.)

TLE (TYP.)

11+00 NL'

10+00 NL'

11+00 NL'

12+00 NL'

3-V 14

4-VL 12

4-VL 13

3-V 8

3-VA 7

3-VL 10

3-VL 4

3-V 1

3-VL 5

3-VA 2

3-V 3

3-V 6

3-VL 9

4-VL 15

4-VL 16

3-V 11

255+00

256+00

257+00

258+00

259+00

260+00

STH 181 / 76TH ST

PHONE

SIGN

SIGNS

POST

LEGEND

- CABLE - OVERHEAD
- LUMINAIRE (150W)
- TYPE 4 WOOD POLE
- LANE DESIGNATION FOR REFERENCE ONLY
- SIGNAL HEAD, OVERHEAD MOUNT
- 3-V 1 — MOUNTING CONFIGURATION SIGNALS HEAD NUMBER
- NOTE: ALL LENSES ARE 12-INCH GRAYSHADE REPRESENTS EXISTING
- WORK ZONE
- AREA MAINTAINED FOR TURNING VEHICLES
- TEMPORARY PAVEMENT
- TEMPORARY CROSSWALK ACCESS
- TEMPORARY BUS STOP PAD
- TEMPORARY PAVEMENT TO BE USED IN FUTURE STAGES
- DRUM WITH/WITHOUT LIGHT, TYPE C
- FLEXIBLE TUBULAR MARKERS
- SIGN MOUNTED ON POST
- SIGN MOUNTED ON TEMPORARY SUPPORT
- TYPE III BARRICADE WITH/WITHOUT SIGN
- REMOVING PAVEMENT MARKINGS

CONFIGURATION WITH HEAD NUMBERS			
3-V (R Y G)	3-VA (R Y G)	3-VL (R Y G)	4-VL (R Y G G)
1,3,6,8,11,14	2,7	4,5,9,10	12,13,15,16

TRAFFIC CONTROL SIGNAL
STH 181 (N 76TH STREET) &
NORTHRIDGE LAKES BLVD
CITY OF MILWAUKEE
MILWAUKEE COUNTY

SIGNAL NO. M 120

SCALE 0 20

DISTRICT CONTACT: JAH
DESIGNED BY: STRAND ASSOCIATES INC.

PROJECT NO: 2140-08-73	HWY: STH 181	COUNTY: MILWAUKEE	TEMPORARY SIGNAL PLAN - STAGE 2 PHASE I	SHEET 301	E

FILE NAME : s:\@sai\051--100\089\099\micros\design\0873\024712_sp.dgn PLOT DATE : 7/30/2007 PLOT BY : $$...plotuser...$$ PLOT NAME : PLOT SCALE : $$.....plotscale.....$$ WISDOT/CADDS SHEET 42

2

GENERAL NOTES

1. FINAL LOCATION OF SIGNAL POLES, CONTROLLER, & HEADS SHALL BE APPROVED BY THE ENGINEER.
2. GUYING OF POLES SHALL BE AS APPROVED BY THE ENGINEER.

N

NORTHRIDGE LAKES BLVD.

PROP. R/W (TYP.)

R/W (TYP.)

TLE (TYP.)

STH 181 / 76TH ST

11+00NL'

11+00RNL'

12+00'

3-V 14
4-VL 12
4-VL 13
3-V 8
3-VA 7
3-VL 10
3-VL 4
3-V 1
3-VL 5
3-VA 2
3-V 3
3-V 9
3-VL 6
4-VL 16
4-VL 15
3-V 11

255+00 256+00 257+00 258+00 259+00 260+00

PHONE SIGN SIGN SIGNS SIGN?

IP

LEGEND

- CABLE - OVERHEAD
- LUMINAIRE (150W)
- TYPE 4 WOOD POLE
- LANE DESIGNATION FOR REFERENCE ONLY
- SIGNAL HEAD, OVERHEAD MOUNT
- 3-V 1 — MOUNTING CONFIGURATION SIGNALS HEAD NUMBER
- NOTE: ALL LENSES ARE 12-INCH GRAYSHADE REPRESENTS EXISTING
- WORK ZONE
- AREA MAINTAINED FOR TURNING VEHICLES
- TEMPORARY PAVEMENT
- TEMPORARY CROSSWALK ACCESS
- TEMPORARY BUS STOP PAD
- TEMPORARY PAVEMENT TO BE USED IN FUTURE STAGES
- DRUM WITH/WITHOUT LIGHT, TYPE C
- FLEXIBLE TUBULAR MARKERS
- SIGN MOUNTED ON POST
- SIGN MOUNTED ON TEMPORARY SUPPORT
- TYPE III BARRICADE WITH/WITHOUT SIGN
- REMOVING PAVEMENT MARKINGS

CONFIGURATION WITH HEAD NUMBERS			
3-V (R Y G)	3-VA (R Y G)	3-VL (R Y 12)	4-VL (R Y G 12)
1,3,6,8,11,14	2,7	4,5,9,10	12,13,15,16

TRAFFIC CONTROL SIGNAL
STH 181 (N 76TH STREET) &
NORTHRIDGE LAKES BLVD
CITY OF MILWAUKEE
MILWAUKEE COUNTY

SIGNAL NO. M 120 SCALE 0 20

DISTRICT CONTACT: JAH
DESIGNED BY: STRAND ASSOCIATES INC.

PAGE 4 OF 10

PROJECT NO: 2140-08-73	HWY: STH 181	COUNTY: MILWAUKEE	TEMPORARY SIGNAL PLAN - STAGE 2 PHASE II	SHEET 302	E

2

GENERAL NOTES

1. FINAL LOCATION OF SIGNAL POLES, CONTROLLER, & HEADS SHALL BE APPROVED BY THE ENGINEER.
2. GUYING OF POLES SHALL BE AS APPROVED BY THE ENGINEER.

N

NORTHRIDGE LAKES BLVD.

PROP. R/W (TYP.)

R/W (TYP.)

TLE (TYP.)

STH 181 / 76TH ST

11+00 NL

10+00 NL

11+00 NL

12+00

255+00 256+00 257+00 258+00 259+00 260+00

3-V 14 | 4-VL 12 | 4-VL 13 | 3-V 8 | 3-VA 7 | 3-VL 10 | 3-VL 4 | 3-V 1 | 4-VL 16 | 4-VL 15 | 3-V 11 | 3-VL 5 | 3-VA 2 | 3-V 3 | 3-V 6 | 3-VL 9

PHONE SIGN SIGN SIGNS IP IP IP IP IP SIGN POST

LEGEND

- CABLE - OVERHEAD
- LUMINAIRE (150W)
- TYPE 4 WOOD POLE
- LANE DESIGNATION FOR REFERENCE ONLY
- SIGNAL HEAD, OVERHEAD MOUNT
- 3-V 1 — MOUNTING CONFIGURATION SIGNALS HEAD NUMBER
- NOTE: ALL LENSES ARE 12-INCH GRAYSHADE REPRESENTS EXISTING
- WORK ZONE
- AREA MAINTAINED FOR TURNING VEHICLES
- TEMPORARY PAVEMENT
- TEMPORARY CROSSWALK ACCESS
- TEMPORARY BUS STOP PAD
- TEMPORARY PAVEMENT TO BE USED IN FUTURE STAGES
- DRUM WITH/WITHOUT LIGHT, TYPE C
- FLEXIBLE TUBULAR MARKERS
- SIGN MOUNTED ON POST
- SIGN MOUNTED ON TEMPORARY SUPPORT
- TYPE III BARRICADE WITH/WITHOUT SIGN
- REMOVING PAVEMENT MARKINGS

CONFIGURATION WITH HEAD NUMBERS			
3-V (R Y G)	3-VA (R Y GA)	3-VL (R Y GL)	4-VL (R Y G GL)
1,3,6,8,11,14	2,7	4,5,9,10	12,13,15,16

TRAFFIC CONTROL SIGNAL
STH 181 (N 76TH STREET) &
NORTHRIDGE LAKES BLVD
CITY OF MILWAUKEE
MILWAUKEE COUNTY

SIGNAL NO. M 120 SCALE 0 20

DISTRICT CONTACT: JAH
DESIGNED BY: STRAND ASSOCIATES INC.

PAGE 5 OF 10

PROJECT NO: 2140-08-73	HWY: STH 181	COUNTY: MILWAUKEE	TEMPORARY SIGNAL PLAN - STAGE 3 PHASE I	SHEET 303 E

FILE NAME : s:\@sai\051--100\089\099\micros\design\0873\024714_sp.dgn PLOT DATE : 7/30/2007 PLOT BY : $$...plotuser...$$ PLOT NAME : PLOT SCALE : $$.....plotscale.....$$ WISDOT/CADDS SHEET 42

2

GENERAL NOTES

1. FINAL LOCATION OF SIGNAL POLES, CONTROLLER, & HEADS SHALL BE APPROVED BY THE ENGINEER.
2. GUYING OF POLES SHALL BE AS APPROVED BY THE ENGINEER.

N

NORTHRIDGE LAKES BLVD.

PROP. R/W (TYP.)

R/W (TYP.)

TLE (TYP.)

STH 181 / 76TH ST

255+00 256+00 257+00 258+00 259+00 260+00

10+00 NL1

11+00 NL1

12+00 NL1

3-V 14 | 4-VL 12 | 4-VL 13 | 3-V 8 | 3-VA 7 | 3-VL 10 | 3-VL 4 | 3-V 1 | 3-V 6 | 3-VL 9 | 3-VL 5 | 3-VA 2 | 3-V 3 | 4-VL 16 | 4-VL 15 | 3-V 11

IP

SIGN

PHONE

POST

LEGEND

- CABLE - OVERHEAD
- LUMINAIRE (150W)
- TYPE 4 WOOD POLE
- LANE DESIGNATION FOR REFERENCE ONLY
- SIGNAL HEAD, OVERHEAD MOUNT
- 3-V 1 — MOUNTING CONFIGURATION SIGNALS HEAD NUMBER
- NOTE: ALL LENSES ARE 12-INCH GRAYSHADE REPRESENTS EXISTING
- WORK ZONE
- AREA MAINTAINED FOR TURNING VEHICLES
- TEMPORARY PAVEMENT
- TEMPORARY CROSSWALK ACCESS
- TEMPORARY BUS STOP PAD
- TEMPORARY PAVEMENT TO BE USED IN FUTURE STAGES
- DRUM WITH/WITHOUT LIGHT, TYPE C
- FLEXIBLE TUBULAR MARKERS
- SIGN MOUNTED ON POST
- SIGN MOUNTED ON TEMPORARY SUPPORT
- TYPE III BARRICADE WITH/WITHOUT SIGN
- REMOVING PAVEMENT MARKINGS

CONFIGURATION WITH HEAD NUMBERS			
3-V (R Y G)	3-VA (R Y G)	3-VL (R Y G)	4-VL (R Y G G)
1,3,6,8,11,14	2,7	4,5,9,10	12,13,15,16

TRAFFIC CONTROL SIGNAL
STH 181 (N 76TH STREET) &
NORTHRIDGE LAKES BLVD
CITY OF MILWAUKEE
MILWAUKEE COUNTY

SIGNAL NO. M 120

SCALE 0 20

DISTRICT CONTACT: JAH
DESIGNED BY: STRAND ASSOCIATES INC.

PAGE 6 OF 10

PROJECT NO: 2140-08-73	HWY: STH 181	COUNTY: MILWAUKEE	TEMPORARY SIGNAL PLAN - STAGE 3 PHASE II	SHEET 304	E

2

GENERAL NOTES

1. FINAL LOCATION OF SIGNAL POLES, CONTROLLER, & HEADS SHALL BE APPROVED BY THE ENGINEER.
2. GUYING OF POLES SHALL BE AS APPROVED BY THE ENGINEER.
3. STAGE 4 PHASE I WHEN THE NORTHBOUND LEFT-TURN MOVEMENT IS RESTRICTED, THE CONTRACTOR SHALL COVER HEADS 4 & 5 AND TURN OFF PHASE 1 IN THE CONTROLLER.

N

NORTHRIDGE LAKES BLVD.

TLE (TYP.)

PROP. R/W (TYP.)

R/W (TYP.)

TLE (TYP.)

11+00NL'

10+00NL'

12+00NL'

11+00NL'

STH 181 / 76TH ST

255+00 256+00 257+00 258+00 259+00 260+00

3-V 1 | 3-VA 2 | 3-V 3 | 3-VL 4 | 3-VL 5 | 3-VL 6 | 3-VL 7 | 3-V 8 | 3-VL 9 | 3-VL 10 | 4-VL 12 | 4-VL 13 | 3-V 14 | 4-VL 15 | 4-VL 16 | 3-V 11

PHONE SIGN SIGN SIGNS SIGN? IP POST

LEGEND

- CABLE - OVERHEAD
- LUMINAIRE (150W)
- TYPE 4 WOOD POLE
- LANE DESIGNATION FOR REFERENCE ONLY
- SIGNAL HEAD, OVERHEAD MOUNT
- 3-V 1 — MOUNTING CONFIGURATION SIGNALS HEAD NUMBER
- NOTE: ALL LENSES ARE 12-INCH GRAYSHADE REPRESENTS EXISTING
- WORK ZONE
- AREA MAINTAINED FOR TURNING VEHICLES
- TEMPORARY PAVEMENT
- TEMPORARY CROSSWALK ACCESS
- TEMPORARY BUS STOP PAD
- TEMPORARY PAVEMENT TO BE USED IN FUTURE STAGES
- DRUM WITH/WITHOUT LIGHT, TYPE C
- FLEXIBLE TUBULAR MARKERS
- SIGN MOUNTED ON POST
- SIGN MOUNTED ON TEMPORARY SUPPORT
- TYPE III BARRICADE WITH/WITHOUT SIGN
- REMOVING PAVEMENT MARKINGS

CONFIGURATION WITH HEAD NUMBERS			
3-V (R Y G)	3-VA (R Y G)	3-VL (R Y G)	4-VL (R Y G G)
1,3,6,8,11,14	2,7	4,5,9,10	12,13,15,16

TRAFFIC CONTROL SIGNAL
STH 181 (N 76TH STREET) &
NORTHRIDGE LAKES BLVD
CITY OF MILWAUKEE
MILWAUKEE COUNTY

SIGNAL NO. M 120 SCALE 0 20

DISTRICT CONTACT: JAH
DESIGNED BY: STRAND ASSOCIATES INC.

PAGE 7 OF 10

PROJECT NO: 2140-08-73	HWY: STH 181	COUNTY: MILWAUKEE	TEMPORARY SIGNAL PLAN - STAGE 4 PHASE I	SHEET 305 E

2

GENERAL NOTES

1. FINAL LOCATION OF SIGNAL POLES, CONTROLLER, & HEADS SHALL BE APPROVED BY THE ENGINEER.
2. GUYING OF POLES SHALL BE AS APPROVED BY THE ENGINEER.

N

NORTHRIDGE LAKES BLVD.

PROP. R/W (TYP.)

R/W (TYP.)

TLE (TYP.)

STH 181 / 76TH ST

11+00 NLI

11+00 NLI

12+00

3-V 14
4-VL 12
4-VL 13
3-V 8
3-VA 7
3-VL 10
3-V 6
3-VL 9
3-VL 4
3-V 1
4-VL 16
4-VL 15
3-V 11
3-VL 5
3-VA 2
3-V 3

255+00 256+00 257+00 258+00 259+00 260+00

PHONE SIGN SIGN SIGNS SIGN

IP

POST

LEGEND

- CABLE - OVERHEAD
- LUMINAIRE (150W)
- TYPE 4 WOOD POLE
- LANE DESIGNATION FOR REFERENCE ONLY
- SIGNAL HEAD, OVERHEAD MOUNT
- 3-V 1 — MOUNTING CONFIGURATION SIGNALS HEAD NUMBER
- NOTE: ALL LENSES ARE 12-INCH GRAYSHADE REPRESENTS EXISTING
- WORK ZONE
- AREA MAINTAINED FOR TURNING VEHICLES
- TEMPORARY PAVEMENT
- TEMPORARY CROSSWALK ACCESS
- TEMPORARY BUS STOP PAD
- TEMPORARY PAVEMENT TO BE USED IN FUTURE STAGES
- DRUM WITH/WITHOUT LIGHT, TYPE C
- FLEXIBLE TUBULAR MARKERS
- SIGN MOUNTED ON POST
- SIGN MOUNTED ON TEMPORARY SUPPORT
- TYPE III BARRICADE WITH/WITHOUT SIGN
- REMOVING PAVEMENT MARKINGS

CONFIGURATION WITH HEAD NUMBERS			
3-V (R Y G)	3-VA (R Y G)	3-VL (R Y G)	4-VL (R Y G G)
1,3,6,8,11,14	2,7	4,5,9,10	12,13,15,16

TRAFFIC CONTROL SIGNAL
STH 181 (N 76TH STREET) &
NORTHRIDGE LAKES BLVD
CITY OF MILWAUKEE
MILWAUKEE COUNTY

SIGNAL NO. M 120

SCALE 0 20

DISTRICT CONTACT: JAH
DESIGNED BY: STRAND ASSOCIATES INC.

PAGE 8 OF 10

PROJECT NO: 2140-08-73	HWY: STH 181	COUNTY: MILWAUKEE	TEMPORARY SIGNAL PLAN - STAGE 4 PHASE II	SHEET 306	E

2

GENERAL NOTES

1. FINAL LOCATION OF SIGNAL POLES, CONTROLLER, & HEADS SHALL BE APPROVED BY THE ENGINEER.
2. GUYING OF POLES SHALL BE AS APPROVED BY THE ENGINEER.

N

NORTHRIDGE LAKES BLVD.

PROP. R/W (TYP.)

R/W (TYP.)

TLE (TYP.)

STH 181 / 76TH ST

11+00 NL'

10+00 NL1'

12+00 NL'

255+00 256+00 257+00 258+00 259+00 260+00

3-V 14 | 4-VL 12 | 4-VL 13 | 3-V 6 | 3-V 8 | 3-VA 7 | 3-VL 10 | 3-VL 9 | 3-VL 4 | 3-VL 5 | 3-VA 2 | 3-V 1 | 4-VL 16 | 4-VL 15 | 3-V 3 | 3-V 11

PHONE SIGN SIGN SIGNS SIGN IP

LEGEND

- CABLE - OVERHEAD
- LUMINAIRE (150W)
- TYPE 4 WOOD POLE
- LANE DESIGNATION FOR REFERENCE ONLY
- SIGNAL HEAD, OVERHEAD MOUNT
- 3-V 1 — MOUNTING CONFIGURATION SIGNALS HEAD NUMBER
- NOTE: ALL LENSES ARE 12-INCH GRAYSHADE REPRESENTS EXISTING
- WORK ZONE
- AREA MAINTAINED FOR TURNING VEHICLES
- TEMPORARY PAVEMENT
- TEMPORARY CROSSWALK ACCESS
- TEMPORARY BUS STOP PAD
- TEMPORARY PAVEMENT TO BE USED IN FUTURE STAGES
- DRUM WITH/WITHOUT LIGHT, TYPE C
- FLEXIBLE TUBULAR MARKERS
- SIGN MOUNTED ON POST
- SIGN MOUNTED ON TEMPORARY SUPPORT
- TYPE III BARRICADE WITH/WITHOUT SIGN
- REMOVING PAVEMENT MARKINGS

CONFIGURATION WITH HEAD NUMBERS			
3-V (R Y G)	3-VA (R Y G)	3-VL (R Y G)	4-VL (R Y G G)
1,3,6,8,11,14	2,7	4,5,9,10	12,13,15,16

TRAFFIC CONTROL SIGNAL
STH 181 (N 76TH STREET) &
NORTHRIDGE LAKES BLVD
CITY OF MILWAUKEE
MILWAUKEE COUNTY

SIGNAL NO. M 120 SCALE 0 20

DISTRICT CONTACT: JAH
DESIGNED BY: STRAND ASSOCIATES INC.

PROJECT NO: 2140-08-73	HWY: STH 181	COUNTY: MILWAUKEE	TEMPORARY SIGNAL PLAN - STAGE 4 PHASE III	SHEET 307	E

FILE NAME : s:\@ssi\051--100\089\099\micros\design\0873\024718_sp.dgn PLOT DATE : 7/30/2007 PLOT BY : $$...plotuser...$$ PLOT NAME : PLOT SCALE : $$.....plotscale.....$$ WISDOT/CADDS SHEET 42

SEQUENCE OF OPERATION

RING 1

	HEAD NUMBERS	Ø1 R/W	Ø1 ✳✳	Ø1 CLEAR TO	Ø2 R/W	Ø2 ✳✳	Ø2 CLEAR TO	Ø3 R/W	Ø3 ✳✳	Ø3 CLEAR TO	Ø4 R/W	Ø4 ✳✳	Ø4 CLEAR TO	FLASH
Ø1	4,5	G ←	Y ←	R ←	R ←	R ←	R ←	R ←	R ←	R ←	R ←	R ←	R ←	R ←
Ø2	6,7,8	R	R	R	G,G ↓	Y	R	R	R	R	R	R	R	R
Ø3	14,15,16	R	R	R	R	R	R	G,G ←	Y	R	R	R	R	R
Ø4	11,12,13	R	R	R	R	R	R	R	R	R	G,G ←	Y	R	R
Ø5	9,10	R ←	R ←	R ←	R ←	R ←	R ←	R ←	R ←	R ←	R ←	R ←	R ←	R ←
Ø6	1,2,3	R	R	R	R	R	R	R	R	R	R	R	R	R
Ø7														
Ø8														
Ø2P														
Ø4P														
Ø6P														
Ø8P														

RING 2

	HEAD NUMBERS	Ø5 R/W	Ø5 ✳✳	Ø5 CLEAR TO	Ø6 R/W	Ø6 ✳✳	Ø6 CLEAR TO	Ø7 R/W	Ø7 ✳✳	Ø7 CLEAR TO	Ø8 R/W	Ø8 ✳✳	Ø8 CLEAR TO
Ø1	4,5	R ←	R ←	R ←	R ←	R ←	R ←						
Ø2	6,7,8	R	R	R	R	R	R						
Ø3	14,15,16	R	R	R	R	R	R						
Ø4	11,12,13	R	R	R	R	R	R						
Ø5	9,10	G ←	Y ←	R ←	R ←	R ←	R ←						
Ø6	1,2,3	R	R	R	G,G ↓	Y	R						
Ø7													
Ø8													
Ø2P													
Ø4P													
Ø6P													
Ø8P													

NOT USED

NOT USED

BARRIER

** CLEARANCE TO A PHASE IN CONFLICT WITH THIS PHASE ON (SEE CHART 1)

N

CONTROLLER LOGIC

PHASE NUMBER	PHASE LOCKING	DUAL ENTRY W / Ø	PHASE RECALL	PHASE ACTIVE
1			MAX	X
2			MAX	X
3			MAX	X
4			MAX	X
5			MAX	X
6			MAX	X
7				
8				

OVERLAPS

O.L. "A" =
O.L. "B" =
O.L. "C" =
O.L. "D" =

SIGNAL PHASING NOTES

1. STAGE 4 PHASE 1 WHEN THE NORTHBOUND LEFT-TURN MOVEMENT IS RESTRICTED, THE CONTRACTOR SHALL COVER HEADS 4 & 5 AND TURN OFF PHASE 1 IN THE CONTROLLER.

TYPE OF INTERCONNECT	
NONE	
TBC	X
CLOSED LOOP	
HARDWIRE	
TONE (FREQ)	
FIBER OPTIC	

TYPE OF PRE-EMPT	
NONE	X
RAILROAD	
EMERGENCY VEHICLE	

TYPE OF LIGHTING	
NONE	
IN TRAFFIC CONTROL CABINET	X
IN SEPARATE CONTROL CABINET	

GENERAL NOTES:

1. ANY ACTUATED PHASE FOR WHICH THERE IS NO CALL SHALL BE SKIPPED.
2. WHEN ONE PHASE IS ON ALONE, ANY NONCONFLICTING PHASE MAY START TIMING CONCURRENTLY WITHOUT A CLEARANCE INTERVAL. (SEE CHART 1 BELOW.)

CHART 1

PHASE ON	NONCONFLICTING PHASE ALLOWED TO TIME CONCURRENTLY	PHASES IN CONFLICT WITH PHASE ON
Ø1	5 OR 6	2,3,4
Ø2	5 OR 6	1,3,4
Ø3	NONE	1,2,4,5,6
Ø4	NONE	1,2,3,5,6
Ø5	1 OR 2	3,4,6
Ø6	1 OR 2	3,4,5
Ø7		
Ø8		

STH 181 & NORTHRIDGE LAKES BLVD.
CITY OF MILWAUKEE
MILWAUKEE COUNTY

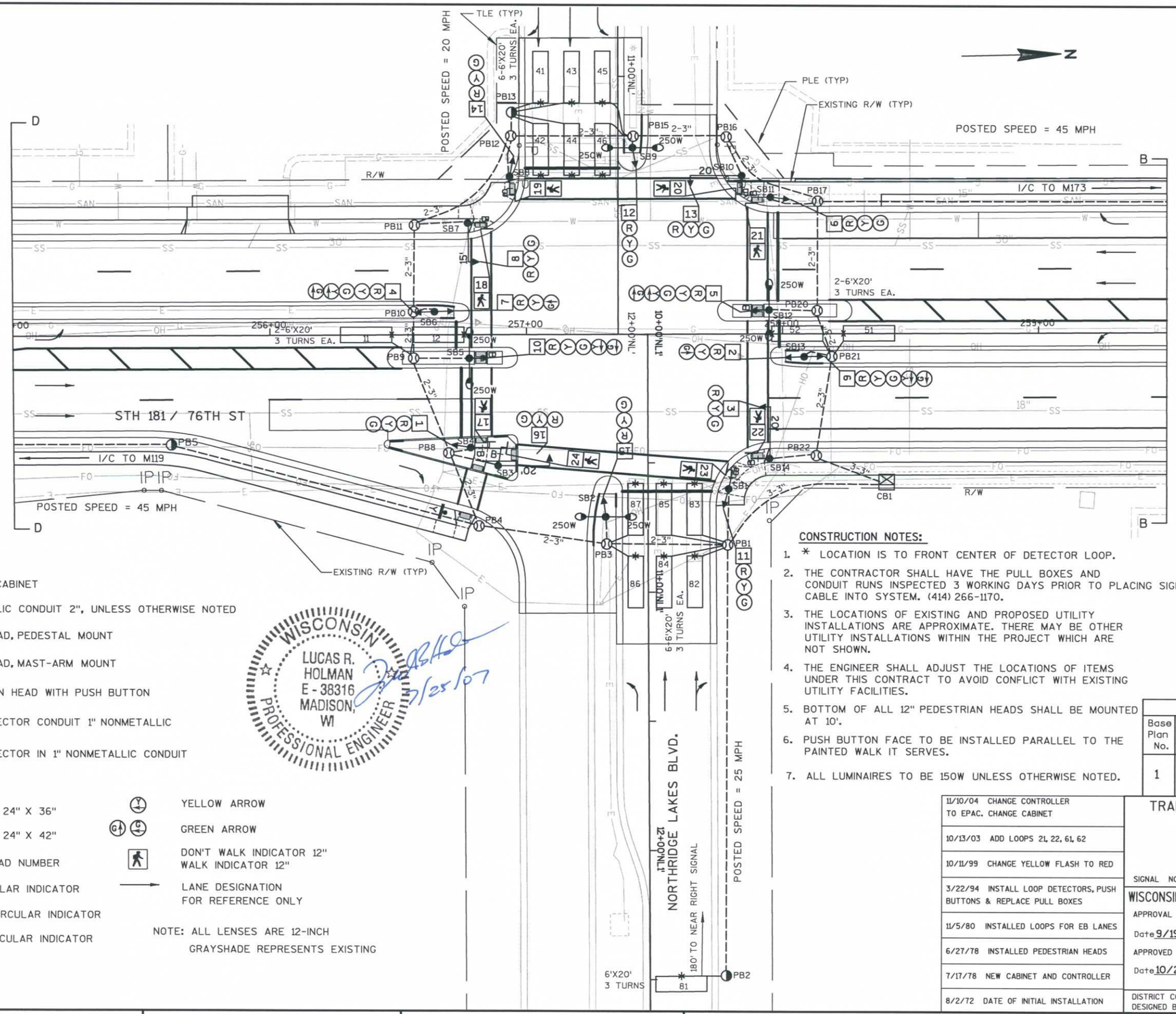
SIGNAL NO. M 120

CONTROLLER TYPE:

DATE 7/07

FILE NAME : s:\@sai\051--100\089\099\micros\design\0873\024719_ph.dgn PLOT DATE : 7/30/2007 PLOT BY : $$...plotuser...$$ PLOT NAME : PLOT SCALE : $$.....plotscale.....$$ WISDOT/CADDS SHEET 42

2



LEGEND

- CONTROL CABINET
- NONMETALLIC CONDUIT 2", UNLESS OTHERWISE NOTED
- SIGNAL HEAD, PEDESTAL MOUNT
- (XX) SIGNAL HEAD, MAST-ARM MOUNT
- PEDESTRIAN HEAD WITH PUSH BUTTON
- LOOP DETECTOR CONDUIT 1" NONMETALLIC
- LOOP DETECTOR IN 1" NONMETALLIC CONDUIT
- LUMINAIRE
- PULL BOX, 24" X 36"
- PULL BOX, 24" X 42"
- 8 SIGNAL HEAD NUMBER
- (R) RED CIRCULAR INDICATOR
- (Y) YELLOW CIRCULAR INDICATOR
- (G) GREEN CIRCULAR INDICATOR
- (Y) YELLOW ARROW
- (G) GREEN ARROW
- DON'T WALK INDICATOR 12" WALK INDICATOR 12"
- LANE DESIGNATION FOR REFERENCE ONLY

NOTE: ALL LENSES ARE 12-INCH
GRAYSHADE REPRESENTS EXISTING

WISCONSIN
LUCAS R. HOLMAN
E-38316
MADISON, WI
PROFESSIONAL ENGINEER
7/25/07

CONSTRUCTION NOTES:

1. * LOCATION IS TO FRONT CENTER OF DETECTOR LOOP.
2. THE CONTRACTOR SHALL HAVE THE PULL BOXES AND CONDUIT RUNS INSPECTED 3 WORKING DAYS PRIOR TO PLACING SIGNAL CABLE INTO SYSTEM. (414) 266-1170.
3. THE LOCATIONS OF EXISTING AND PROPOSED UTILITY INSTALLATIONS ARE APPROXIMATE. THERE MAY BE OTHER UTILITY INSTALLATIONS WITHIN THE PROJECT WHICH ARE NOT SHOWN.
4. THE ENGINEER SHALL ADJUST THE LOCATIONS OF ITEMS UNDER THIS CONTRACT TO AVOID CONFLICT WITH EXISTING UTILITY FACILITIES.
5. BOTTOM OF ALL 12" PEDESTRIAN HEADS SHALL BE MOUNTED AT 10'.
6. PUSH BUTTON FACE TO BE INSTALLED PARALLEL TO THE PAINTED WALK IT SERVES.
7. ALL LUMINAIRES TO BE 150W UNLESS OTHERWISE NOTED.

REVISIONS						
Base Plan No.	Rev. No.	NEW GEOMETRICS				Cont. Type
		APPROVALS				
		REGIONAL		CENTRAL OFFICE		
		Date	By	Date	By	
1	7	7-31-07	EAH			EPAC

11/10/04	CHANGE CONTROLLER TO EPAC. CHANGE CABINET
10/13/03	ADD LOOPS 21, 22, 61, 62
10/11/99	CHANGE YELLOW FLASH TO RED
3/22/94	INSTALL LOOP DETECTORS, PUSH BUTTONS & REPLACE PULL BOXES
11/5/80	INSTALLED LOOPS FOR EB LANES
6/27/78	INSTALLED PEDESTRIAN HEADS
7/17/78	NEW CABINET AND CONTROLLER
8/2/72	DATE OF INITIAL INSTALLATION

TRAFFIC CONTROL SIGNAL
STH 181 (N 76TH STREET) &
NORTHRIDGE LAKES BLVD
CITY OF MILWAUKEE
MILWAUKEE COUNTY

SIGNAL NO. M 120 SCALE 0 20

WISCONSIN DEPARTMENT OF TRANSPORTATION

APPROVAL RECOMMENDED
Date 9/19/77 ROBERT MOE, DISTRICT TRAFFIC ENGINEER

APPROVED
Date 10/28/77 HARRY PRICE, STATE TRAFFIC ENGINEER

DISTRICT CONTACT: JAH
DESIGNED BY: STRAND ASSOCIATES INC

PAGE 1 OF 4

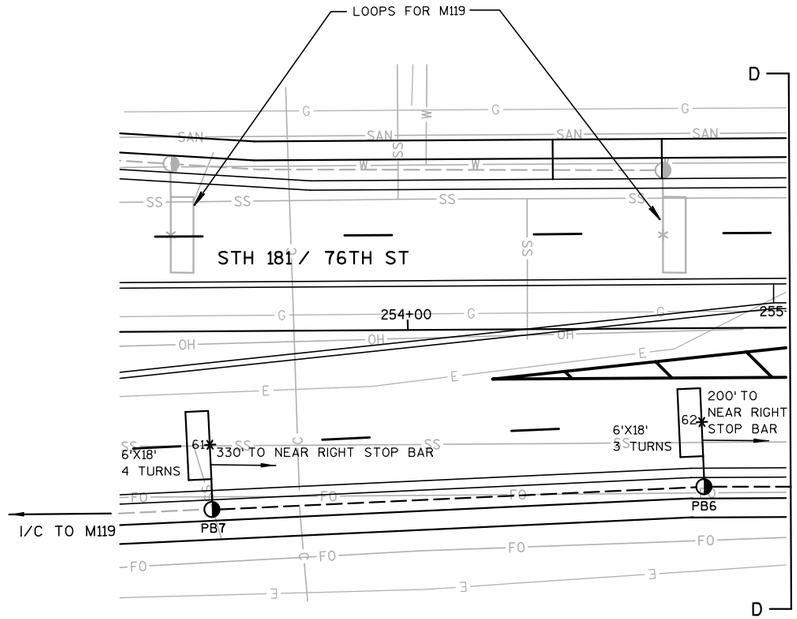
7-31-07

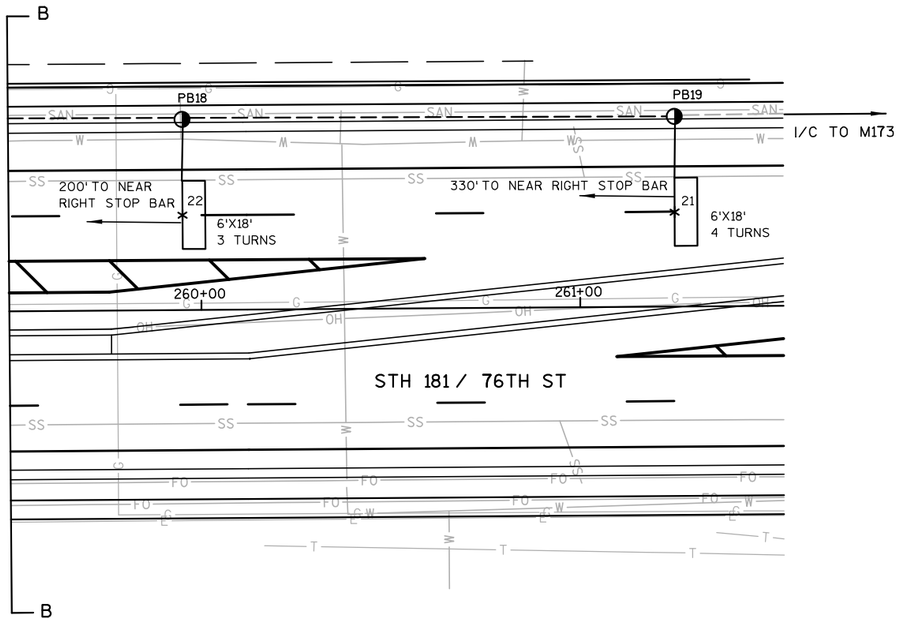
PROJECT NO: 2140-08-73	HWY: STH 181	COUNTY: MILWAUKEE	TRAFFIC SIGNAL PLAN	SHEET E

FILE NAME : s:\eSAI\051--100\089\099\Micros\DESIGN\0873\024720_sp.dgn PLOT DATE : 7/25/2007 PLOT BY : $$...plotuser...$$ PLOT NAME : PLOT SCALE : $$.....plotscale.....$$ WISDOT/CADDS SHEET 42

2

N





TRAFFIC CONTROL SIGNAL
STH 181 (N 76TH STREET) &
NORTHRIDGE LAKES BLVD
CITY OF MILWAUKEE
MILWAUKEE COUNTY

SIGNAL NO. M 120

SCALE 0 20

DISTRICT CONTACT: JAH
DESIGNED BY: STRAND ASSOCIATES INC

PAGE 2 OF 4

PROJECT NO: 2140-08-73	HWY: STH 181	COUNTY: MILWAUKEE	TRAFFIC SIGNAL PLAN	SHEET 310	E

SEQUENCE OF OPERATION

RING 1

	HEAD NUMBERS	Ø1 R/W	Ø1 CLEAR TO **	Ø1 CLEAR TO	Ø2 R/W	Ø2 CLEAR TO **	Ø2 CLEAR TO	Ø3 R/W	Ø3 CLEAR TO **	Ø3 CLEAR TO	Ø4 R/W	Ø4 CLEAR TO **	Ø4 CLEAR TO	FLASH
Ø1	4,5	G ←	Y ←	-	-	-	-				-	-	-	-
Ø2	6,7,8,9,10	R	R	R	G, G↑	Y	R				R	R	R	R
Ø3														
Ø4	14,15,16	R	R	R	R	R	R				G	Y	R	R
Ø5	9,10	-	-	-	-	-	-				-	-	-	-
Ø6	1,2,3,4,5	R	R	R	R	R	R				R	R	R	R
Ø7														
Ø8	11,12,13	R	R	R	R	R	R				R	R	R	R
Ø2P	19,20	DW	DW	DW	*	DW	DW				DW	DW	DW	
Ø4P	17,18	DW	DW	DW	DW	DW	DW				*	DW	DW	
Ø6P	23,24	DW	DW	DW	DW	DW	DW				DW	DW	DW	
Ø8P	21,22	DW	DW	DW	DW	DW	DW				DW	DW	DW	

RING 2

	HEAD NUMBERS	Ø5 R/W	Ø5 CLEAR TO **	Ø5 CLEAR TO	Ø6 R/W	Ø6 CLEAR TO **	Ø6 CLEAR TO	Ø7 R/W	Ø7 CLEAR TO **	Ø7 CLEAR TO	Ø8 R/W	Ø8 CLEAR TO **	Ø8 CLEAR TO
Ø1	4,5	-	-	-	-	-	-				-	-	-
Ø2	6,7,8,9,10	R	R	R	R	R	R				R	R	R
Ø3													
Ø4	14,15,16	R	R	R	R	R	R				R	R	R
Ø5	9,10	G ←	Y ←	-	-	-	-				-	-	-
Ø6	1,2,3,4,5	R	R	R	G, G↑	Y	R				R	R	R
Ø7													
Ø8	11,12,13	R	R	R	R	R	R				G	Y	R
Ø2P	19,20	DW	DW	DW	DW	DW	DW				DW	DW	DW
Ø4P	17,18	DW	DW	DW	DW	DW	DW				DW	DW	DW
Ø6P	23,24	DW	DW	DW	*	DW	DW				DW	DW	DW
Ø8P	21,22	DW	DW	DW	DW	DW	DW				*	DW	DW

BARRIER

** CLEARANCE TO A PHASE IN CONFLICT WITH THIS PHASE ON (SEE CHART 1)

* WHEN CALLED, TIMED STEADY WALK, THEN FLASHING DON'T WALK, THEN GOES TO STEADY DON'T WALK

CHART 1

PHASE ON	NONCONFLICTING PHASE ALLOWED TO TIME CONCURRENTLY	PHASES IN CONFLICT WITH PHASE ON
Ø1	5 OR 6	2,4,8
Ø2	5 OR 6	1,4,8
Ø3		
Ø4	8	1,2,5,6
Ø5	1 OR 2	4,6,8
Ø6	1 OR 2	4,5,8
Ø7		
Ø8	4	1,2,5,6

DETECTOR LOGIC

DETECTOR NUMBER	AMPLIFIER CHANNEL NUMBER	DETECTOR OPERATION: CALLS AND EXTENDS	DETECTOR OPERATION: CALLS ONLY	DETECTOR OPERATION: EXTENDS ONLY	PHASE CALLED	PHASE EXTENDED	DETECTOR DISCONNECT PHASE	CALLING DELAY	EXTENSION STRETCH	SIZE	NUMBER OF TURNS
11	1	X			1	1				6X20	3
12	1	X			1	1				6X20	3
21	2	X			2	2				6X18	4
22	2	X			2	2				6X18	3
41	3	X			4	4		X		6X20	3
42	3	X			4	4		X		6X20	3
43	4	X			4	4				6X20	3
44	4	X			4	4				6X20	3
45	5	X			4	4				6X20	3
46	5	X			4	4				6X20	3
51	6	X			5	5				6X20	3
52	6	X			5	5				6X20	3
61	7	X			6	6				6X18	4
62	7	X			6	6				6X18	3
81	8			X		8			X	6X20	3
82	9	X			8	8		X		6X20	3
83	9	X			8	8		X		6X20	3
84	10	X			8	8				6X20	3
85	10	X			8	8				6X20	3
86	11	X			8	8				6X20	3
87	11	X			8	8				6X20	3

CONTROLLER LOGIC

PHASE NUMBER	PHASE LOCKING	DUAL ENTRY W / Ø	PHASE RECALL	PHASE ACTIVE
1		6		X
2	X	6	MIN.	X
3				
4		8		X
5		2		X
6	X	2	MIN.	X
7				
8		4		X

OVERLAPS

O.L. "A" =
O.L. "B" =
O.L. "C" =
O.L. "D" =

N

TYPE OF INTERCONNECT	
NONE	
TBC	X
CLOSED LOOP	
HARDWIRE	
TONE (FREQ)	
FIBER OPTIC	

TYPE OF PRE-EMPT	
NONE	X
RAILROAD	
EMERGENCY VEHICLE	

TYPE OF LIGHTING	
NONE	
IN TRAFFIC CONTROL CABINET	X
IN SEPARATE CONTROL CABINET	

GENERAL NOTES:

1. ANY ACTUATED PHASE FOR WHICH THERE IS NO CALL SHALL BE SKIPPED.
2. WHEN ONE PHASE IS ON ALONE, ANY NONCONFLICTING PHASE MAY START TIMING CONCURRENTLY WITHOUT A CLEARANCE INTERVAL. (SEE CHART 1 AT LEFT.)
3. IF ANY OPPOSING THRU PHASES ARE TIMING CONCURRENTLY, THEY SHALL TERMINATE TOGETHER DUE TO PERMISSIVE LEFT TURN CONFLICT.

STH 181 & NORTHRIDGE LAKES BLVD.
CITY OF MILWAUKEE
MILWAUKEE COUNTY

SIGNAL NO. M 120

CONTROLLER TYPE: EPAC

DATE 7/07

FILE NAME : s:\@sai\051--100\089\099\micros\design\0873\024722_ph.dgn PLOT DATE : 7/30/2007 PLOT BY : $$...plotuser...$$ PLOT NAME : PLOT SCALE : $$.....plotscale.....$$ WISDOT/CADDS SHEET 42

PROJECT ID:	2140-08-73
INTERSECTION:	STH 181 (N 76TH ST.) & NORTHRIDGE LAKES BLVD.

Signal Wire Color Coding	BLK - black	RED - red	GRN - green
	WHT - white	BLU - blue	ORG - orange

CB1 TO	JUMPER	# OF COND.	HEAD NO.	PHASE	SIGNAL INDICATION WIRE COLOR						D/WALK	WALK	PED BUTTON	OTHER
					RED	YELLOW	GREEN	<RED	<YELLOW>	<GREEN>				
SB1		12	11	8	RED	ORG	GRN							
			23	6							BLK	BLU		
			BUTTON	6									WHT/BLK	
SB2		12	15	4	RED	ORG	GRN							
SB3		12	16	4	RED	ORG	GRN							
			24	6							BLK	BLU		
			BUTTON	6									WHT/BLK	
SB4		12	1	6	RED	ORG	GRN							
			17	4							BLK	BLU		
			BUTTON	4									WHT/BLK	
SB5		12	10	2	RED	ORG	GRN							
				5					BLK	BLU				
			BUTTON	4									WHT/BLK	
SB6		12	4	6	RED	ORG	GRN							
				1					BLK	BLU				
			7	2	RED/BLK	ORG/BLK				GRN/BLK				
SB7		12	8	2	RED	ORG	GRN							
			18	4							BLK	BLU		
			BUTTON	4									WHT/BLK	
SB8		12	14	4	RED	ORG	GRN							
			19	2							BLK	BLU		
			BUTTON	2									WHT/BLK	
SB9		12	12	8	RED	ORG	GRN							
SB10		12	13	8	RED	ORG	GRN							
			20	2							BLK	BLU		
			BUTTON	2									WHT/BLK	
SB11		12	6	2	RED	ORG	GRN							
			21	8							BLK	BLU		
			BUTTON	8									WHT/BLK	
SB12		12	5	6	RED	ORG	GRN							
				1					BLK	BLU				
			BUTTON	8									WHT/BLK	
SB13		12	2	6	RED	ORG				GRN				
			9	2	RED/BLK	ORG/BLK	GRN/BLK							
				5					BLK/WHT	BLU/BLK				
SB14		12	3	6	RED	ORG	GRN							
			22	8							BLK	BLU		
			BUTTON	8									WHT/BLK	

Equipment grounding conductor 10 AWG Green XLP	
From	To
CB1	SB1
SB1	SB2
SB2	SB3
SB3	SB4
SB4	SB5
SB5	SB6
SB6	SB7
SB7	SB8
SB8	SB9
SB9	SB10
SB10	SB11
SB11	SB12
SB12	SB13
SB13	SB14
SB14	CB1

Pull Box Bonding Jumper 10 AWG Green XLP	
From	To
SB1	PB1
SB2	PB3
SB3	PB4
SB4	PB8
SB5	PB9
SB6	PB10
SB7	PB11
SB8	PB12
SB9	PB15
SB10	PB16
SB11	PB17
SB12	PB20
SB13	PB21
SB14	PB22

Lighting UF 12 AWG w/ground	
From	To
CB1	SB2
SB2	SB5
CB1	SB12
SB12	SB9

*Use the white conductor in the signal cable as the grounded conductor for all traffic signal indications.

*Ensure the grounded conductor in the feeder cable and the pole cables are both 18" longer than the ungrounded conductors.

*At the signal bases, connect one terminal from the pedestrian push buttons to the color indicated in the chart. Connect the other terminal to the grounded conductor.

"Other" column may include shadow box sign

TRAFFIC CONTROL SIGNAL
STH 181 (N 76TH ST) &
NORTHRIDGE LAKES BLVD
CITY OF MILWAUKEE
MILWAUKEE COUNTY

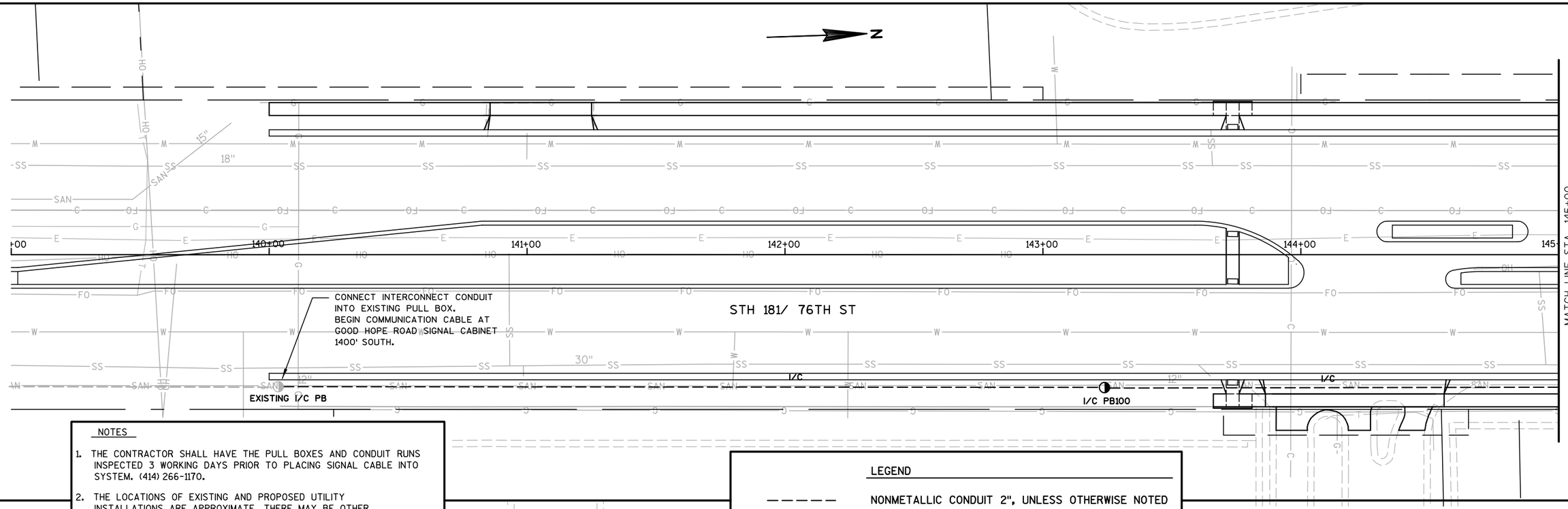
SIGNAL NO. M 120

SCALE 0 20

DISTRICT CONTACT: JAH
DESIGNED BY: STRAND ASSOCIATES INC.

PAGE 4 OF 4

PROJECT NO: 2140-08-73	HWY: STH 181	COUNTY: MILWAUKEE	CABLE ROUTING	SHEET 312	E

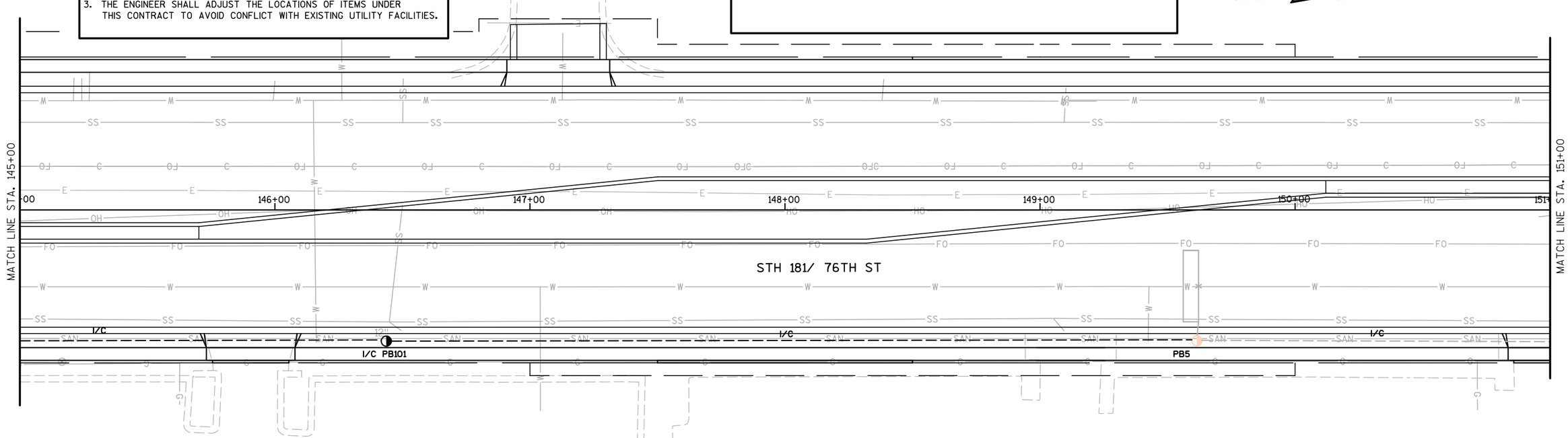


NOTES

1. THE CONTRACTOR SHALL HAVE THE PULL BOXES AND CONDUIT RUNS INSPECTED 3 WORKING DAYS PRIOR TO PLACING SIGNAL CABLE INTO SYSTEM. (414) 266-1170.
2. THE LOCATIONS OF EXISTING AND PROPOSED UTILITY INSTALLATIONS ARE APPROXIMATE. THERE MAY BE OTHER UTILITY INSTALLATIONS WITHIN THE PROJECT WHICH ARE NOT SHOWN.
3. THE ENGINEER SHALL ADJUST THE LOCATIONS OF ITEMS UNDER THIS CONTRACT TO AVOID CONFLICT WITH EXISTING UTILITY FACILITIES.

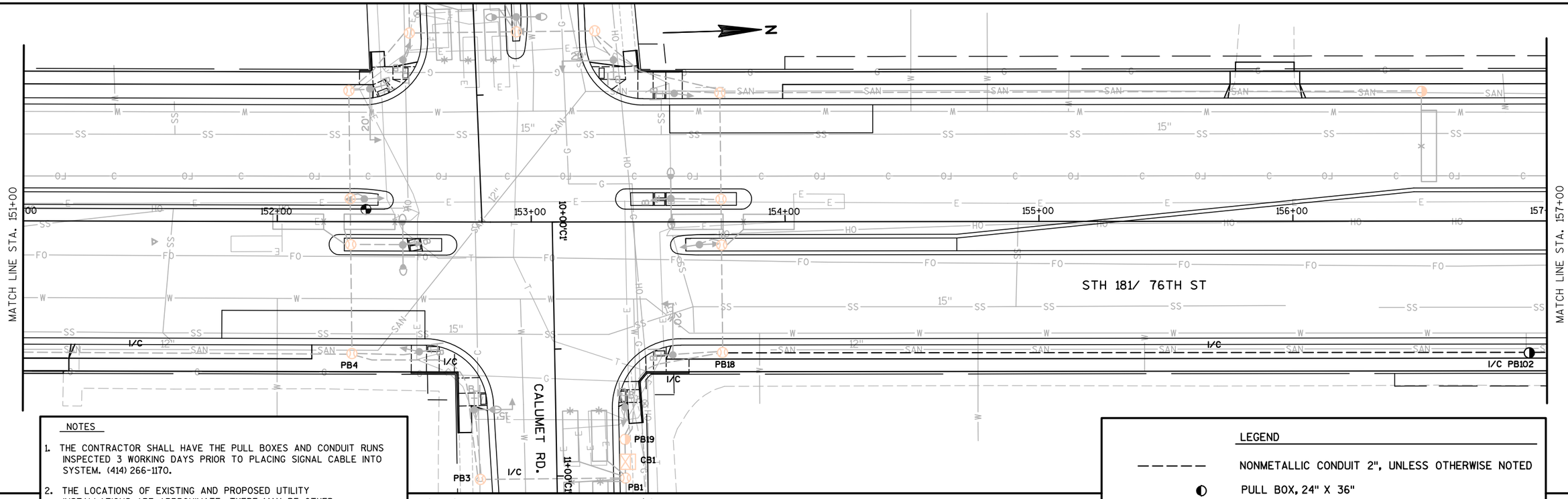
LEGEND

- NONMETALLIC CONDUIT 2", UNLESS OTHERWISE NOTED
- PULL BOX, 24" X 36"



PROJECT NO: 2140-08-73	HWY: STH 181	COUNTY: MILWAUKEE	INTERCONNECT PLAN	SHEET 313	E

FILE NAME : s:\@sai\051--100\089\099\micros\design\0873\024801_sp.dgn PLOT DATE : 7/30/2007 PLOT BY : $$...plotuser...$$ PLOT NAME : PLOT SCALE : $$.....plotscale.....$$ WISDOT/CADDS SHEET 42

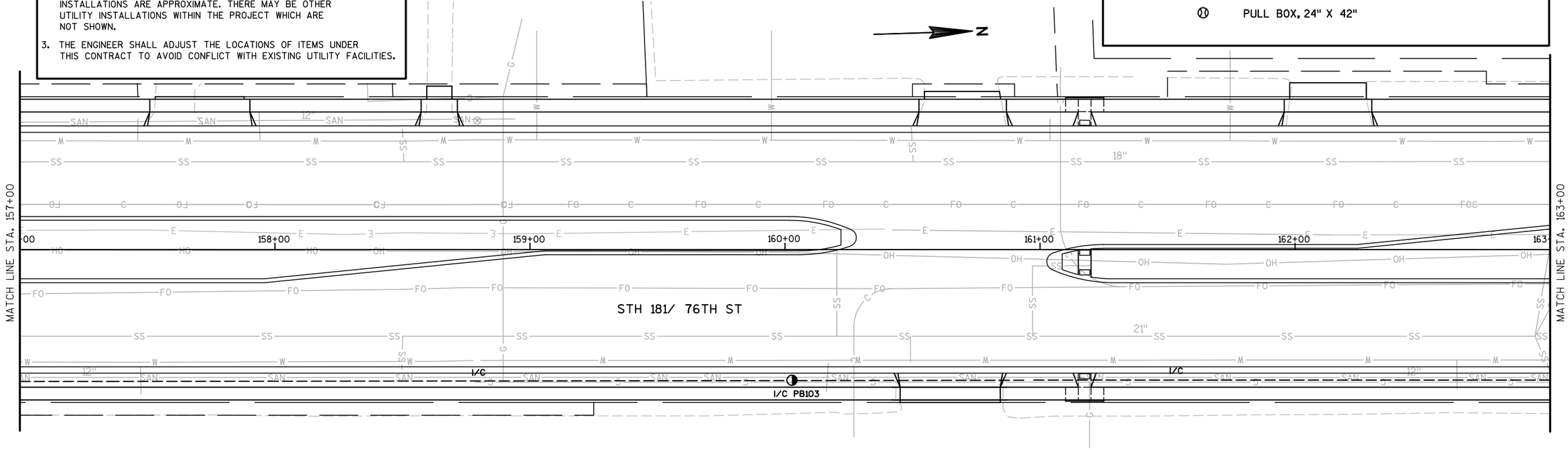


NOTES

1. THE CONTRACTOR SHALL HAVE THE PULL BOXES AND CONDUIT RUNS INSPECTED 3 WORKING DAYS PRIOR TO PLACING SIGNAL CABLE INTO SYSTEM. (414) 266-1170.
2. THE LOCATIONS OF EXISTING AND PROPOSED UTILITY INSTALLATIONS ARE APPROXIMATE. THERE MAY BE OTHER UTILITY INSTALLATIONS WITHIN THE PROJECT WHICH ARE NOT SHOWN.
3. THE ENGINEER SHALL ADJUST THE LOCATIONS OF ITEMS UNDER THIS CONTRACT TO AVOID CONFLICT WITH EXISTING UTILITY FACILITIES.

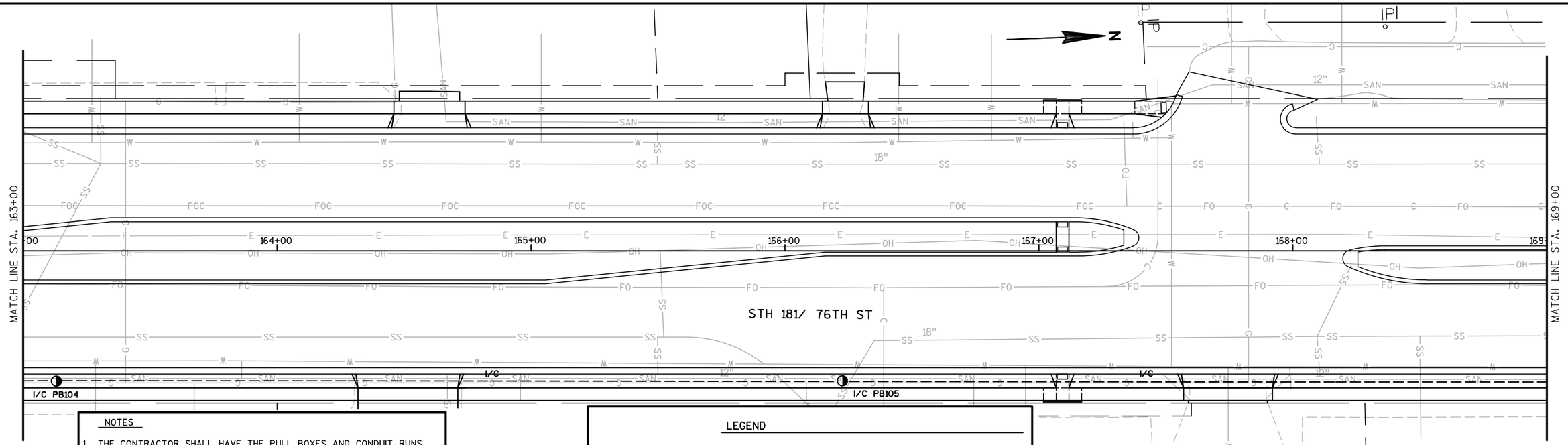
LEGEND

- NONMETALLIC CONDUIT 2", UNLESS OTHERWISE NOTED
- PULL BOX, 24" X 36"
- PULL BOX, 24" X 42"



PROJECT NO: 2140-08-73	HWY: STH 181	COUNTY: MILWAUKEE	INTERCONNECT PLAN	SHEET 314	E

FILE NAME : s:\@sai\051--100\089\099\micros\design\0873\024802_sp.dgn PLOT DATE : 7/30/2007 PLOT BY : $$...plotuser...$$ PLOT NAME : PLOT SCALE : $$.....plotscale.....$$ WISDOT/CADDS SHEET 42



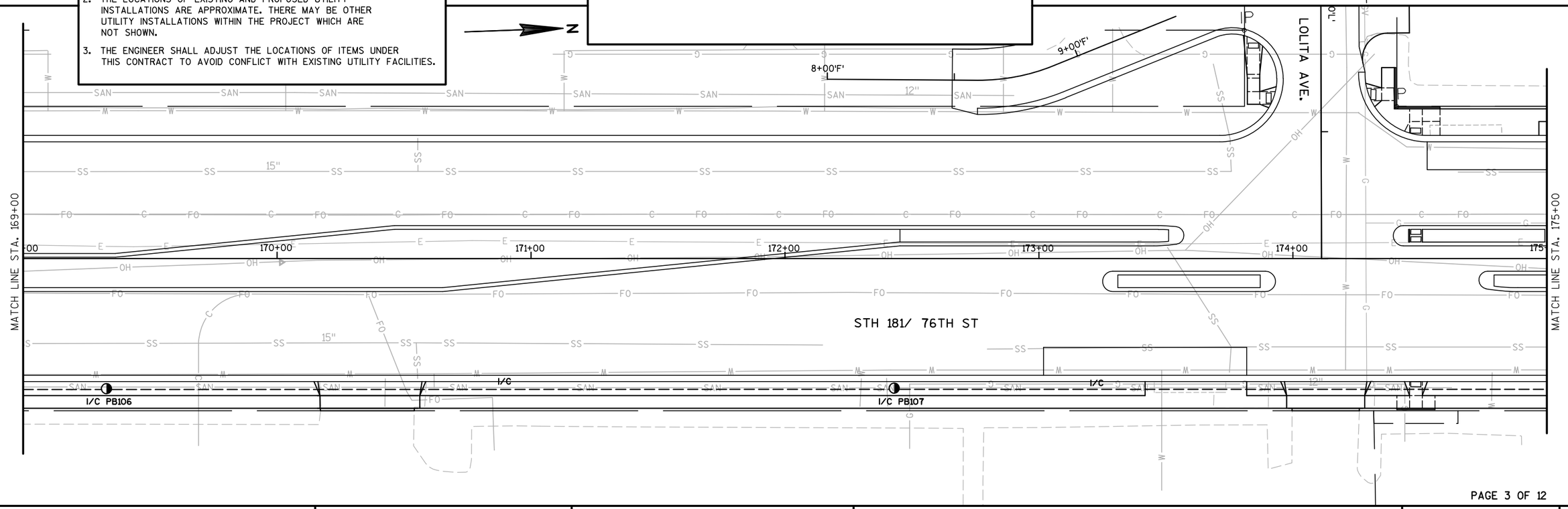
NOTES

1. THE CONTRACTOR SHALL HAVE THE PULL BOXES AND CONDUIT RUNS INSPECTED 3 WORKING DAYS PRIOR TO PLACING SIGNAL CABLE INTO SYSTEM. (414) 266-1170.
2. THE LOCATIONS OF EXISTING AND PROPOSED UTILITY INSTALLATIONS ARE APPROXIMATE. THERE MAY BE OTHER UTILITY INSTALLATIONS WITHIN THE PROJECT WHICH ARE NOT SHOWN.
3. THE ENGINEER SHALL ADJUST THE LOCATIONS OF ITEMS UNDER THIS CONTRACT TO AVOID CONFLICT WITH EXISTING UTILITY FACILITIES.

LEGEND

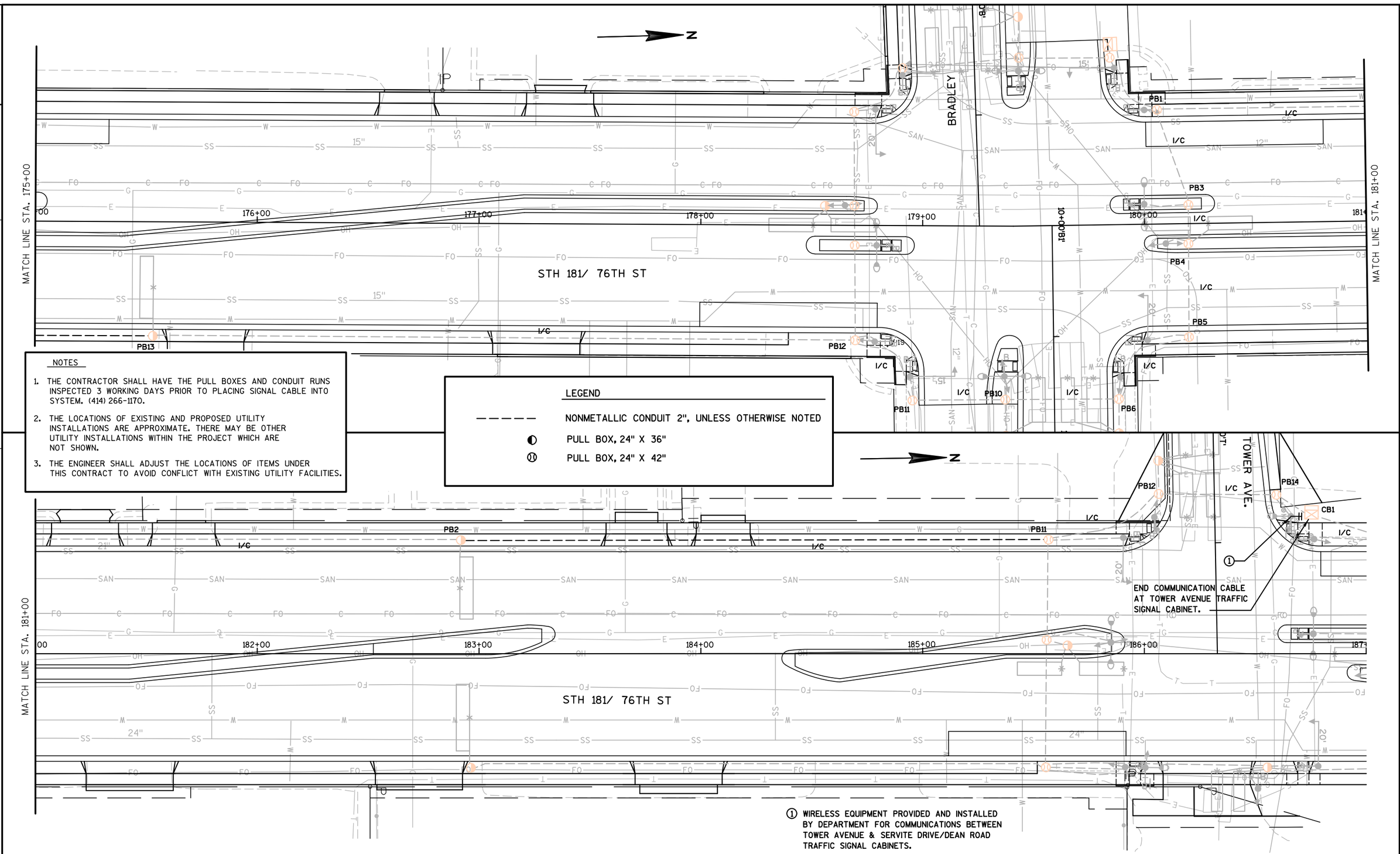
NONMETALLIC CONDUIT 2", UNLESS OTHERWISE NOTED

PULL BOX, 24" X 36"



PROJECT NO: 2140-08-73	HWY: STH 181	COUNTY: MILWAUKEE	INTERCONNECT PLAN	SHEET 315 E

FILE NAME : s:\@sai\051--100\089\099\micros\design\0873\024803_sp.dgn PLOT DATE : 7/30/2007 PLOT BY : $$...plotuser...$$ PLOT NAME : PLOT SCALE : $$.....plotscale.....$$ WISDOT/CADDS SHEET 42



NOTES

1. THE CONTRACTOR SHALL HAVE THE PULL BOXES AND CONDUIT RUNS INSPECTED 3 WORKING DAYS PRIOR TO PLACING SIGNAL CABLE INTO SYSTEM. (414) 266-1170.
2. THE LOCATIONS OF EXISTING AND PROPOSED UTILITY INSTALLATIONS ARE APPROXIMATE. THERE MAY BE OTHER UTILITY INSTALLATIONS WITHIN THE PROJECT WHICH ARE NOT SHOWN.
3. THE ENGINEER SHALL ADJUST THE LOCATIONS OF ITEMS UNDER THIS CONTRACT TO AVOID CONFLICT WITH EXISTING UTILITY FACILITIES.

LEGEND

- NONMETALLIC CONDUIT 2", UNLESS OTHERWISE NOTED
- PULL BOX, 24" X 36"
- PULL BOX, 24" X 42"

PROJECT NO: 2140-08-73	HWY: STH 181	COUNTY: MILWAUKEE	INTERCONNECT PLAN	SHEET 316	E

FILE NAME : s:\@sai\051--100\089\099\micros\design\0873\024804_sp.dgn PLOT DATE : 7/30/2007 PLOT BY : $$...plotuser...$$ PLOT NAME : PLOT SCALE : $$.....plotscale.....$$ WISDOT/CADDS SHEET 42

NOTES

1. THE CONTRACTOR SHALL HAVE THE PULL BOXES AND CONDUIT RUNS INSPECTED 3 WORKING DAYS PRIOR TO PLACING SIGNAL CABLE INTO SYSTEM. (414) 266-1170.
2. THE LOCATIONS OF EXISTING AND PROPOSED UTILITY INSTALLATIONS ARE APPROXIMATE. THERE MAY BE OTHER UTILITY INSTALLATIONS WITHIN THE PROJECT WHICH ARE NOT SHOWN.
3. THE ENGINEER SHALL ADJUST THE LOCATIONS OF ITEMS UNDER THIS CONTRACT TO AVOID CONFLICT WITH EXISTING UTILITY FACILITIES.

LEGEND

- NONMETALLIC CONDUIT 2", UNLESS OTHERWISE NOTED
- PULL BOX, 24" X 36"
- PULL BOX, 24" X 42"

N

SERVITE DR.

DEAN RD.

STH 181/ 76TH ST

MATCH LINE STA. 211+00

205+00

206+00

207+00

208+00

209+00

210+00

211+

PB19

CB1

I/C

I/C PB108

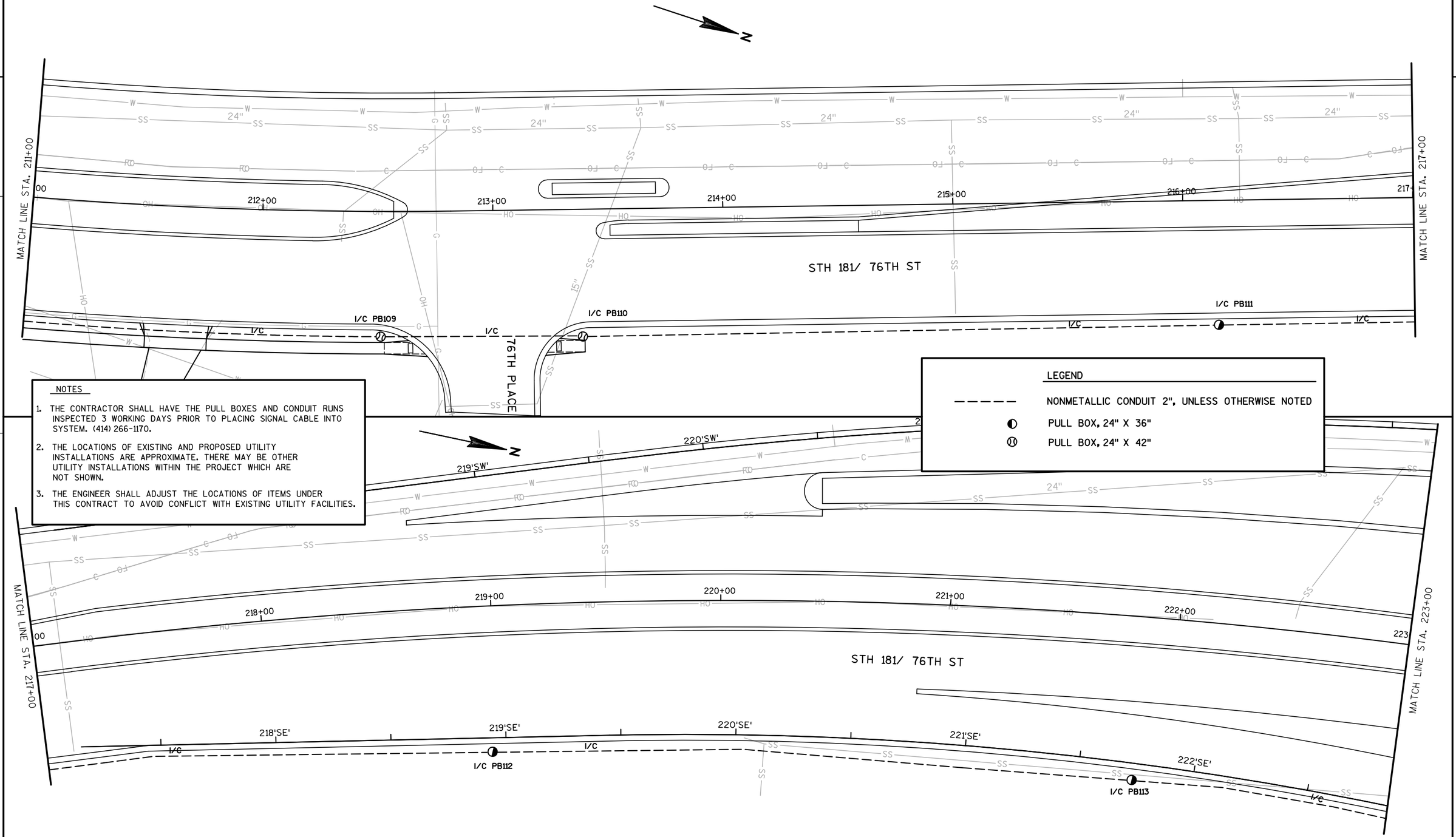
BEGIN COMMUNICATION CABLE AT SERVITE DRIVE/DEAN ROAD TRAFFIC SIGNAL CABINET.

WIRELESS EQUIPMENT PROVIDED AND INSTALLED BY DEPARTMENT FOR COMMUNICATIONS BETWEEN TOWER AVENUE & SERVITE DRIVE/DEAN ROAD TRAFFIC SIGNAL CABINETS.

PROJECT NO: 2140-08-73	HWY: STH 181	COUNTY: MILWAUKEE	INTERCONNECT PLAN	SHEET 317	E

FILE NAME : s:\@sai\051--100\089\099\micros\design\0873\024806_sp.dgn PLOT DATE : 7/30/2007 PLOT BY : $$...plotuser...$$ PLOT NAME : PLOT SCALE : $$.....plotscale.....$$ WISDOT/CADDS SHEET 42

2



NOTES

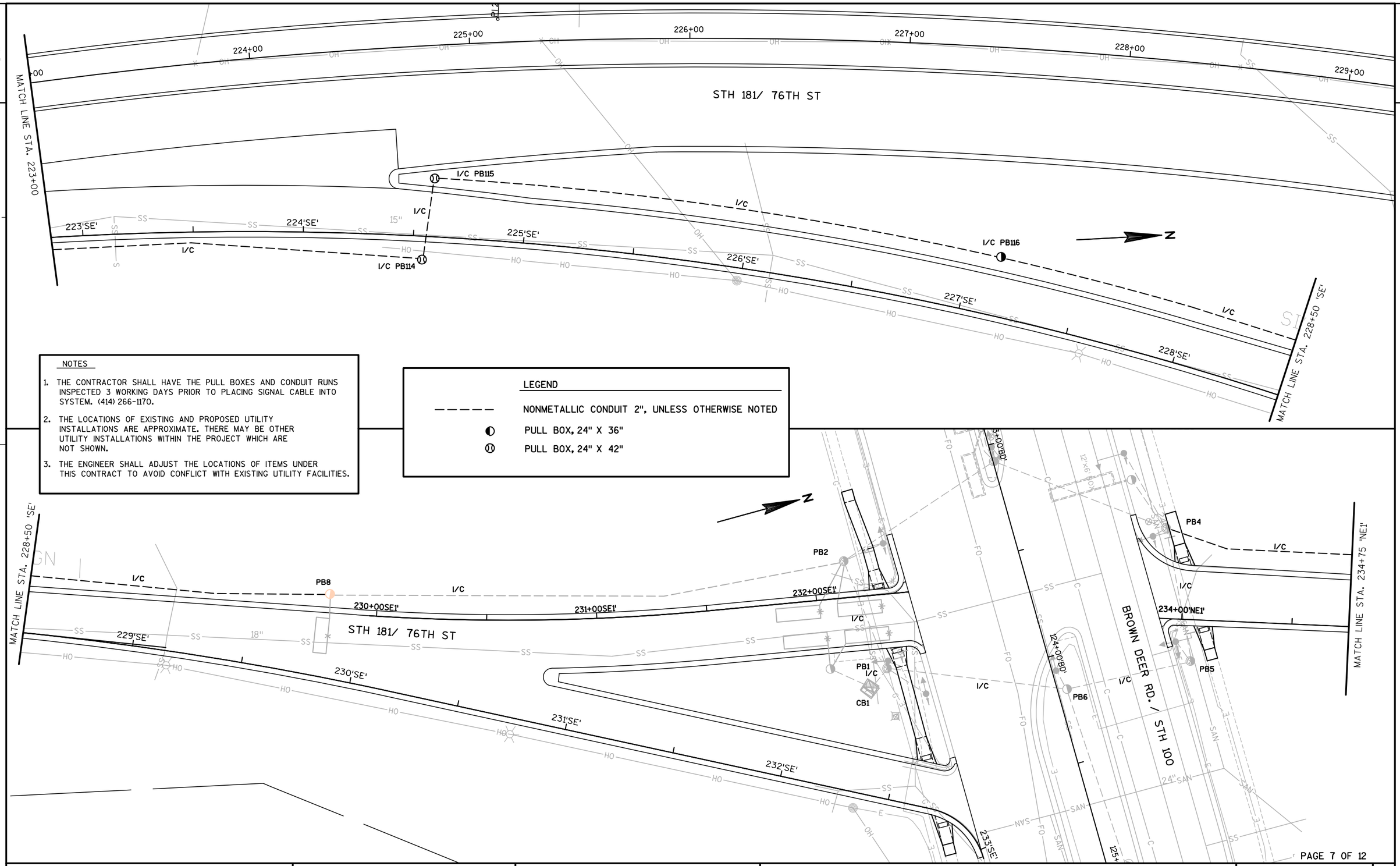
1. THE CONTRACTOR SHALL HAVE THE PULL BOXES AND CONDUIT RUNS INSPECTED 3 WORKING DAYS PRIOR TO PLACING SIGNAL CABLE INTO SYSTEM. (414) 266-1170.
2. THE LOCATIONS OF EXISTING AND PROPOSED UTILITY INSTALLATIONS ARE APPROXIMATE. THERE MAY BE OTHER UTILITY INSTALLATIONS WITHIN THE PROJECT WHICH ARE NOT SHOWN.
3. THE ENGINEER SHALL ADJUST THE LOCATIONS OF ITEMS UNDER THIS CONTRACT TO AVOID CONFLICT WITH EXISTING UTILITY FACILITIES.

LEGEND

- NONMETALLIC CONDUIT 2", UNLESS OTHERWISE NOTED
- PULL BOX, 24" X 36"
- PULL BOX, 24" X 42"

PROJECT NO: 2140-08-73	HWY: STH 181	COUNTY: MILWAUKEE	INTERCONNECT PLAN	SHEET 318	E

FILE NAME : s:\@sai\051--100\089\099\micros\design\0873\024807_sp.dgn PLOT DATE : 7/30/2007 PLOT BY : $$...plotuser...$$ PLOT NAME : PLOT SCALE : $$.....plotscale.....$$ WISDOT/CADDS SHEET 42

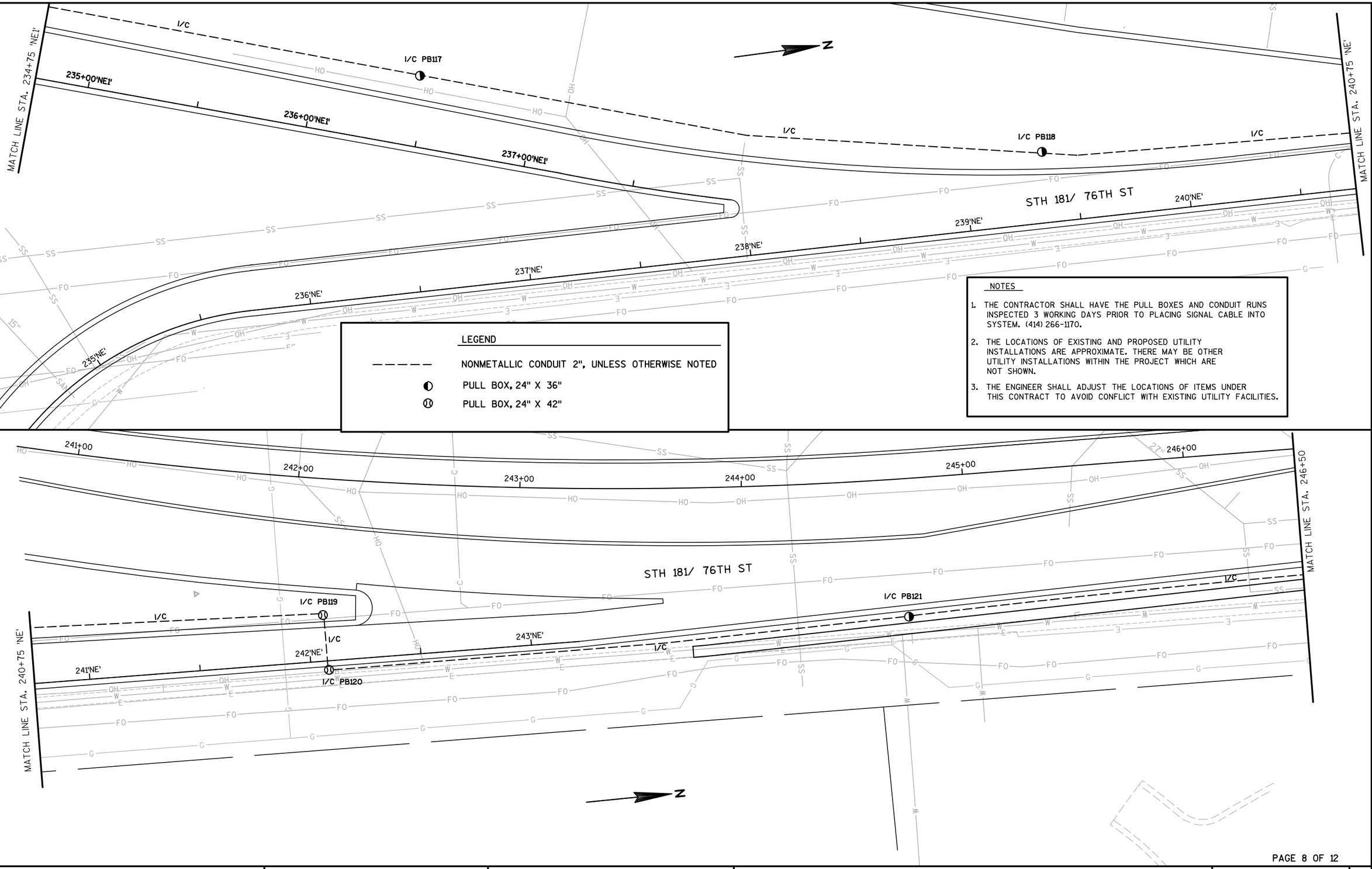


NOTES

1. THE CONTRACTOR SHALL HAVE THE PULL BOXES AND CONDUIT RUNS INSPECTED 3 WORKING DAYS PRIOR TO PLACING SIGNAL CABLE INTO SYSTEM. (414) 266-1170.
2. THE LOCATIONS OF EXISTING AND PROPOSED UTILITY INSTALLATIONS ARE APPROXIMATE. THERE MAY BE OTHER UTILITY INSTALLATIONS WITHIN THE PROJECT WHICH ARE NOT SHOWN.
3. THE ENGINEER SHALL ADJUST THE LOCATIONS OF ITEMS UNDER THIS CONTRACT TO AVOID CONFLICT WITH EXISTING UTILITY FACILITIES.

LEGEND

- NONMETALLIC CONDUIT 2", UNLESS OTHERWISE NOTED
- PULL BOX, 24" X 36"
- PULL BOX, 24" X 42"



PROJECT NO: 2140-08-73	HWY: STH 181	COUNTY: MILWAUKEE	INTERCONNECT PLAN	SHEET 320	E

FILE NAME : s:\@sai\051--100\089\099\micros\design\0873\024809_sp.dgn PLOT DATE : 7/30/2007 PLOT BY : $$...plotuser...$$ PLOT NAME : PLOT SCALE : $$.....plotscale.....$$ WISDOT/CADDS SHEET 42

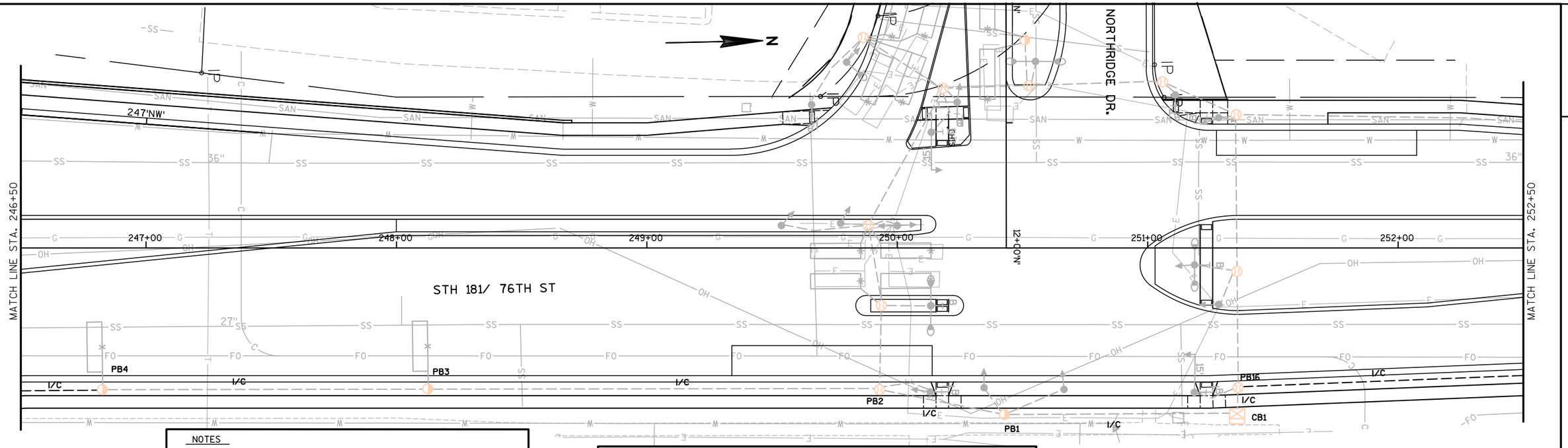
2

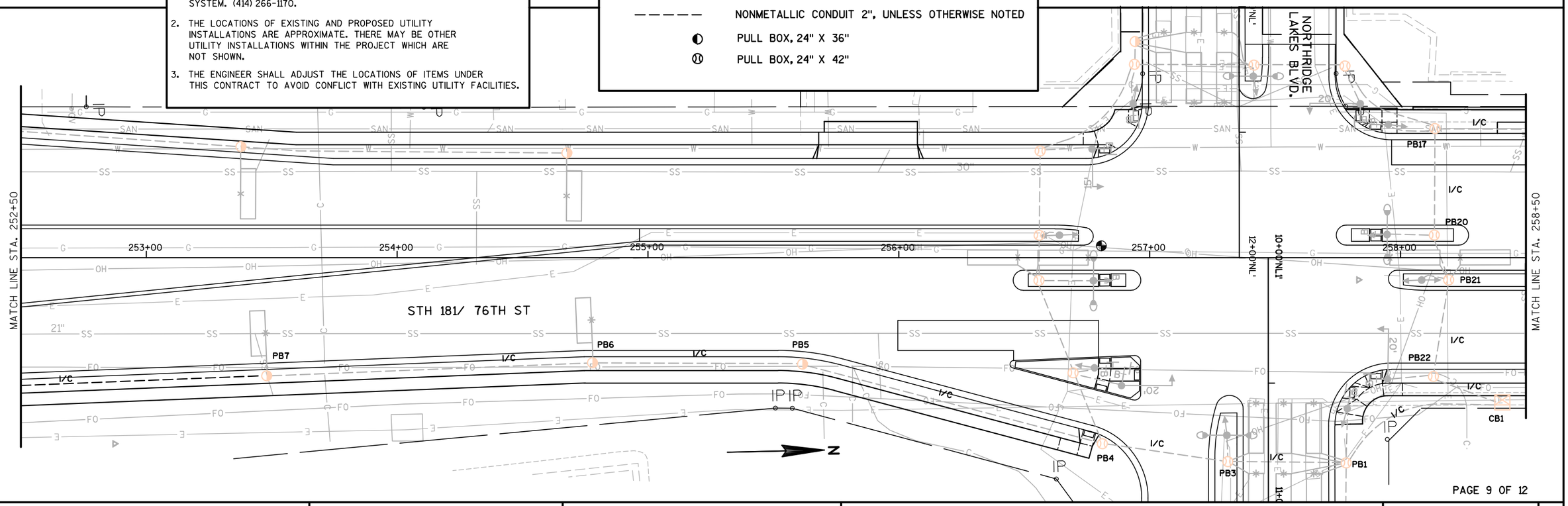
NOTES

1. THE CONTRACTOR SHALL HAVE THE PULL BOXES AND CONDUIT RUNS INSPECTED 3 WORKING DAYS PRIOR TO PLACING SIGNAL CABLE INTO SYSTEM. (414) 266-1170.
2. THE LOCATIONS OF EXISTING AND PROPOSED UTILITY INSTALLATIONS ARE APPROXIMATE. THERE MAY BE OTHER UTILITY INSTALLATIONS WITHIN THE PROJECT WHICH ARE NOT SHOWN.
3. THE ENGINEER SHALL ADJUST THE LOCATIONS OF ITEMS UNDER THIS CONTRACT TO AVOID CONFLICT WITH EXISTING UTILITY FACILITIES.

LEGEND

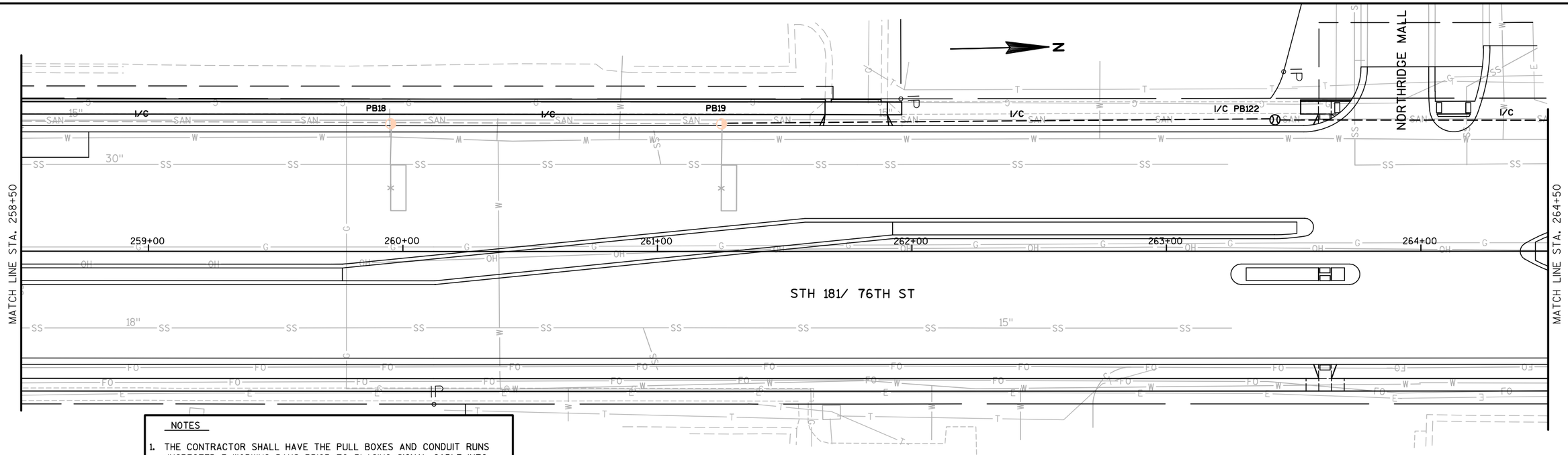
- NONMETALLIC CONDUIT 2", UNLESS OTHERWISE NOTED
- PULL BOX, 24" X 36"
- PULL BOX, 24" X 42"





PROJECT NO: 2140-08-73	HWY: STH 181	COUNTY: MILWAUKEE	INTERCONNECT PLAN	SHEET	E

FILE NAME : s:\@sai\051--100\089\099\micros\design\0873\024810_sp.dgn PLOT DATE : 7/30/2007 PLOT BY : $$...plotuser...$$ PLOT NAME : PLOT SCALE : $$.....plotscale.....$$ WISDOT/CADDS SHEET 42

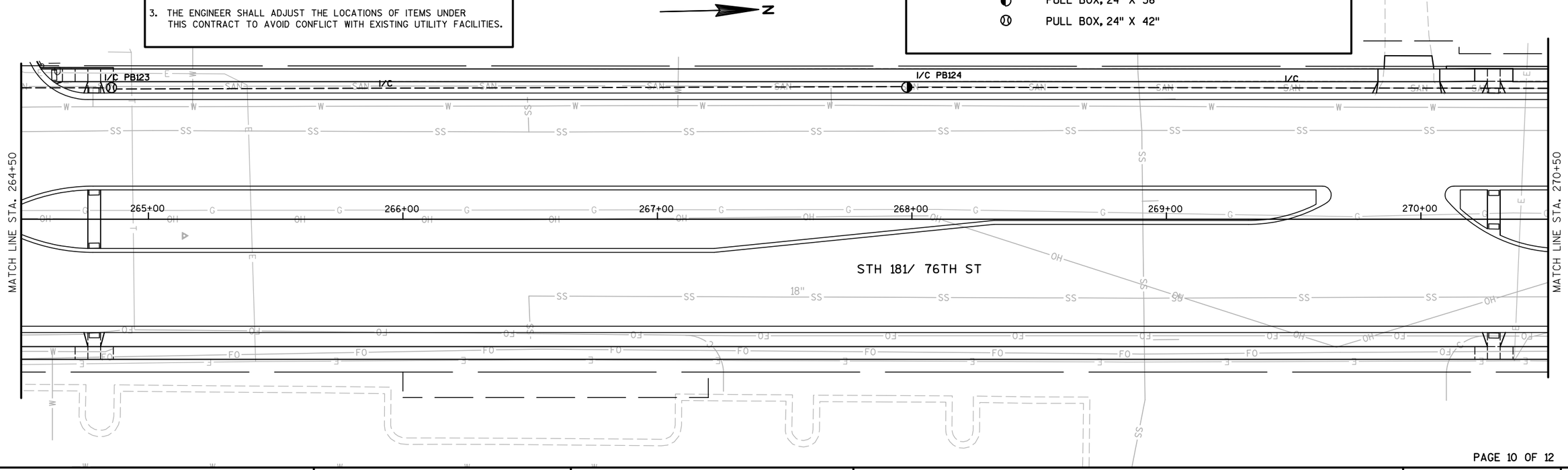


NOTES

1. THE CONTRACTOR SHALL HAVE THE PULL BOXES AND CONDUIT RUNS INSPECTED 3 WORKING DAYS PRIOR TO PLACING SIGNAL CABLE INTO SYSTEM. (414) 266-1170.
2. THE LOCATIONS OF EXISTING AND PROPOSED UTILITY INSTALLATIONS ARE APPROXIMATE. THERE MAY BE OTHER UTILITY INSTALLATIONS WITHIN THE PROJECT WHICH ARE NOT SHOWN.
3. THE ENGINEER SHALL ADJUST THE LOCATIONS OF ITEMS UNDER THIS CONTRACT TO AVOID CONFLICT WITH EXISTING UTILITY FACILITIES.

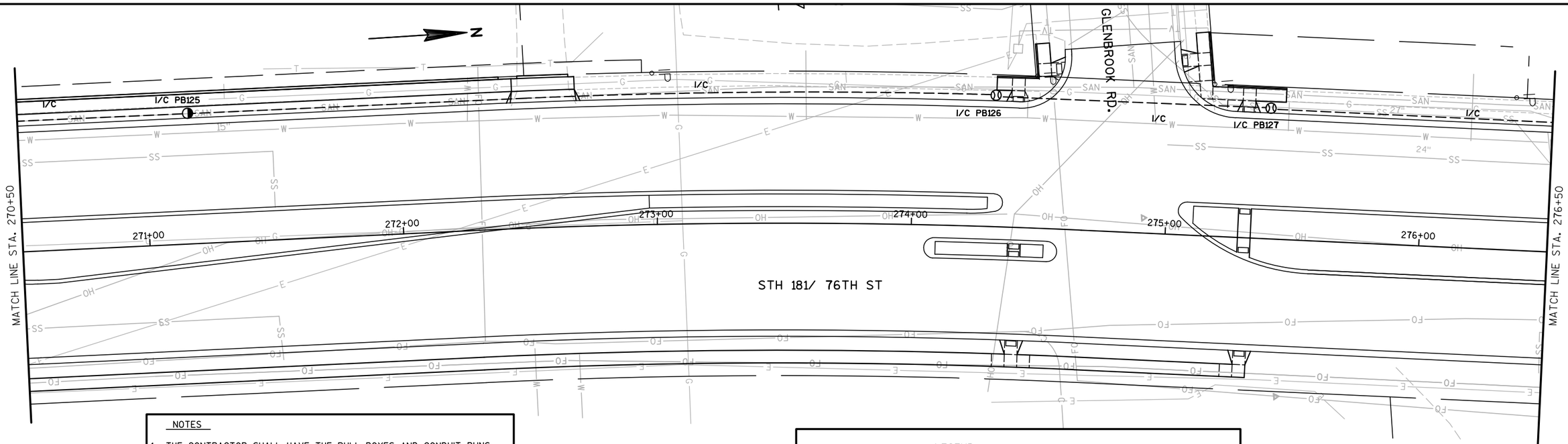
LEGEND

- NONMETALLIC CONDUIT 2", UNLESS OTHERWISE NOTED
- PULL BOX, 24" X 36"
- PULL BOX, 24" X 42"



PROJECT NO: 2140-08-73	HWY: STH 181	COUNTY: MILWAUKEE	INTERCONNECT PLAN	SHEET 322	E

FILE NAME : s:\@sai\051--100\089\099\micros\design\0873\024811_sp.dgn PLOT DATE : 7/30/2007 PLOT BY : $$...plotuser...$$ PLOT NAME : PLOT SCALE : $$.....plotscale.....$$ WISDOT/CADDS SHEET 42

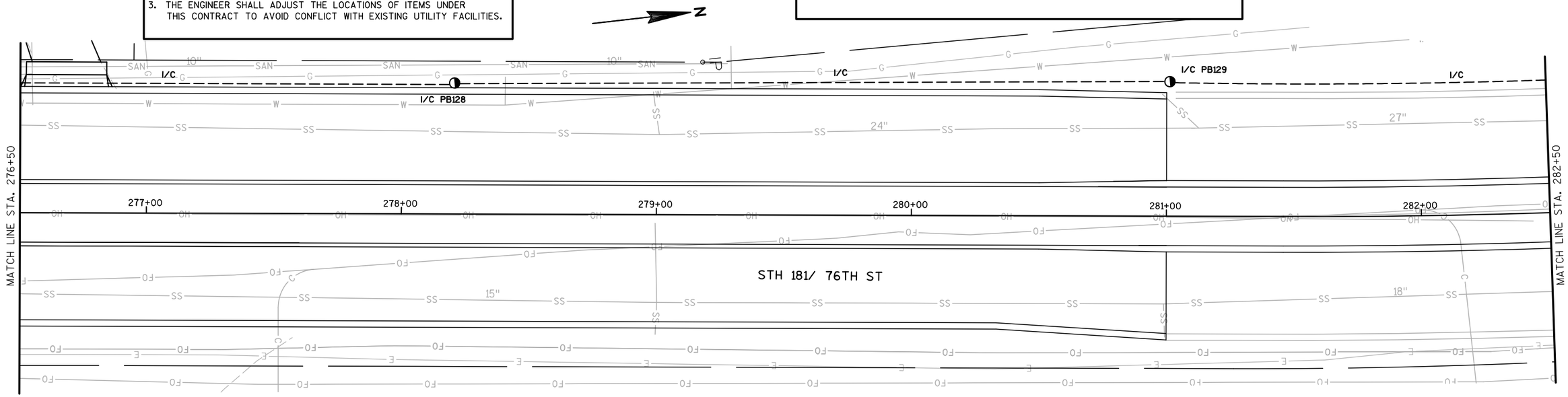


NOTES

1. THE CONTRACTOR SHALL HAVE THE PULL BOXES AND CONDUIT RUNS INSPECTED 3 WORKING DAYS PRIOR TO PLACING SIGNAL CABLE INTO SYSTEM. (414) 266-1170.
2. THE LOCATIONS OF EXISTING AND PROPOSED UTILITY INSTALLATIONS ARE APPROXIMATE. THERE MAY BE OTHER UTILITY INSTALLATIONS WITHIN THE PROJECT WHICH ARE NOT SHOWN.
3. THE ENGINEER SHALL ADJUST THE LOCATIONS OF ITEMS UNDER THIS CONTRACT TO AVOID CONFLICT WITH EXISTING UTILITY FACILITIES.

LEGEND

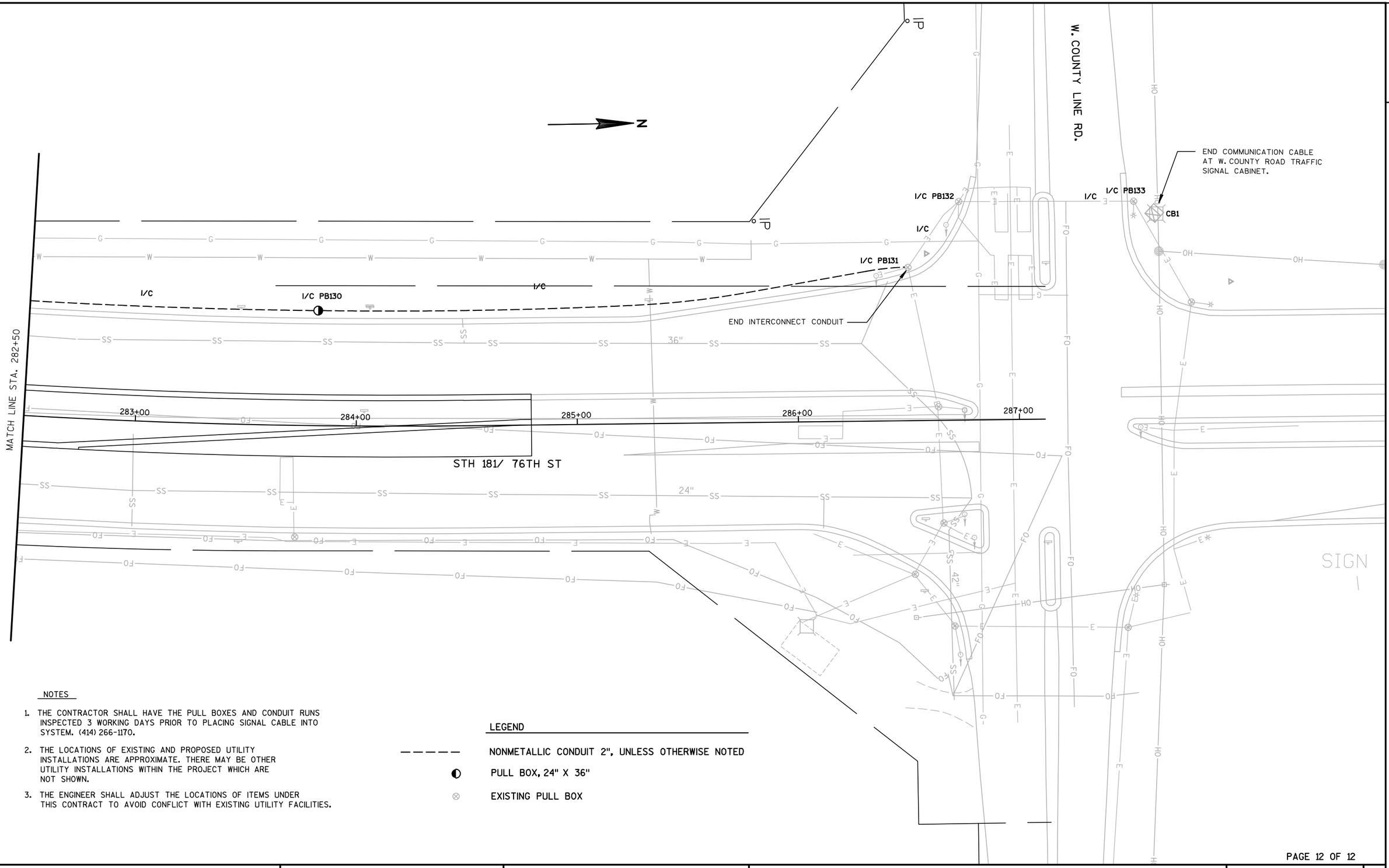
- NONMETALLIC CONDUIT 2", UNLESS OTHERWISE NOTED
- PULL BOX, 24" X 36"
- PULL BOX, 24" X 42"



PROJECT NO: 2140-08-73	HWY: STH 181	COUNTY: MILWAUKEE	INTERCONNECT PLAN	SHEET 323	E

FILE NAME : s:\@sdi\051--100\089\099\micros\design\0873\024812_sp.dgn PLOT DATE : 7/30/2007 PLOT BY : $$...plotuser...$$ PLOT NAME : PLOT SCALE : $$.....plotscale.....$$ WISDOT/CADDS SHEET 42

2



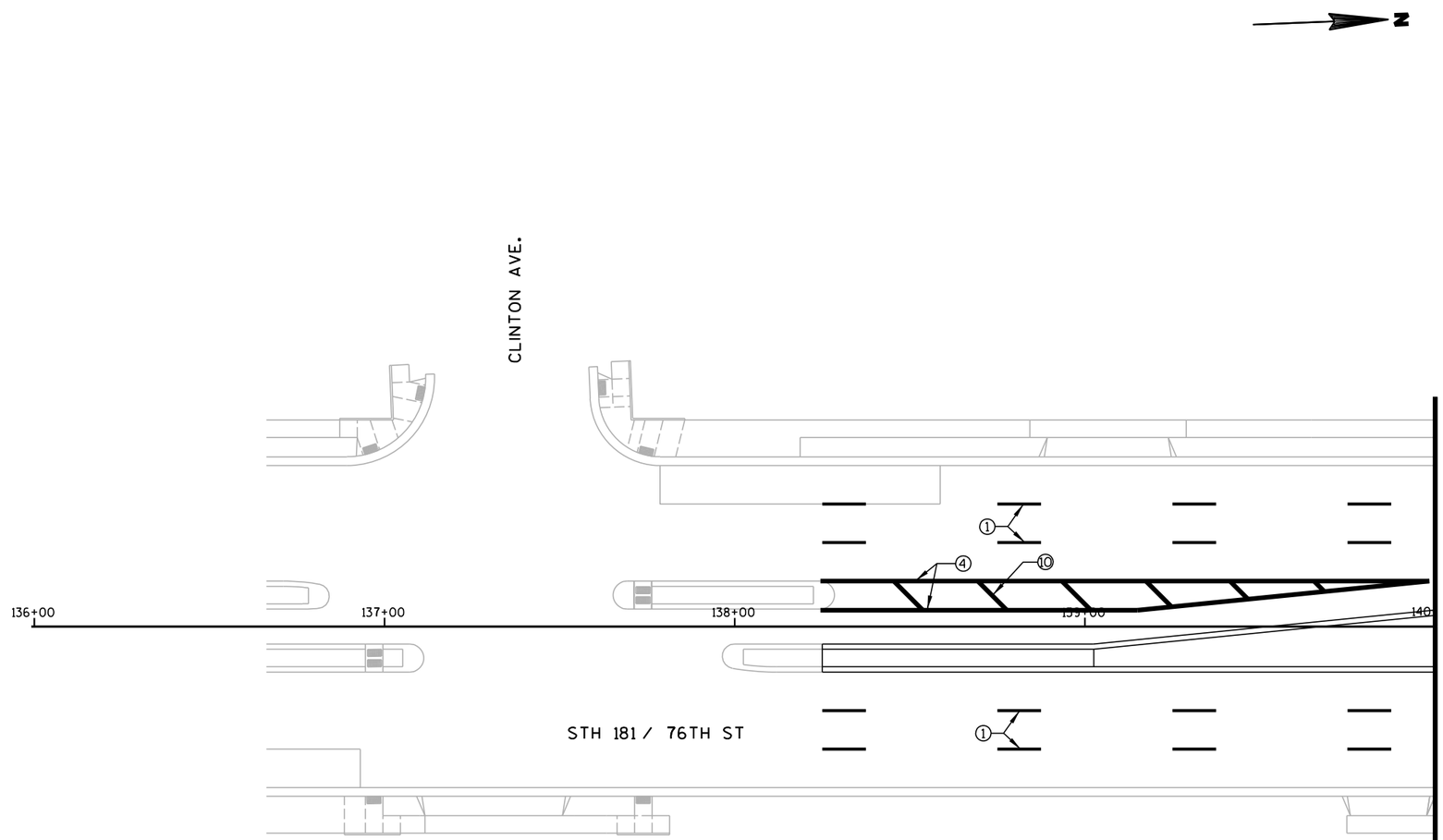
NOTES

1. THE CONTRACTOR SHALL HAVE THE PULL BOXES AND CONDUIT RUNS INSPECTED 3 WORKING DAYS PRIOR TO PLACING SIGNAL CABLE INTO SYSTEM. (414) 266-1170.
2. THE LOCATIONS OF EXISTING AND PROPOSED UTILITY INSTALLATIONS ARE APPROXIMATE. THERE MAY BE OTHER UTILITY INSTALLATIONS WITHIN THE PROJECT WHICH ARE NOT SHOWN.
3. THE ENGINEER SHALL ADJUST THE LOCATIONS OF ITEMS UNDER THIS CONTRACT TO AVOID CONFLICT WITH EXISTING UTILITY FACILITIES.

LEGEND

- NONMETALLIC CONDUIT 2", UNLESS OTHERWISE NOTED
- PULL BOX, 24" X 36"
- EXISTING PULL BOX

2

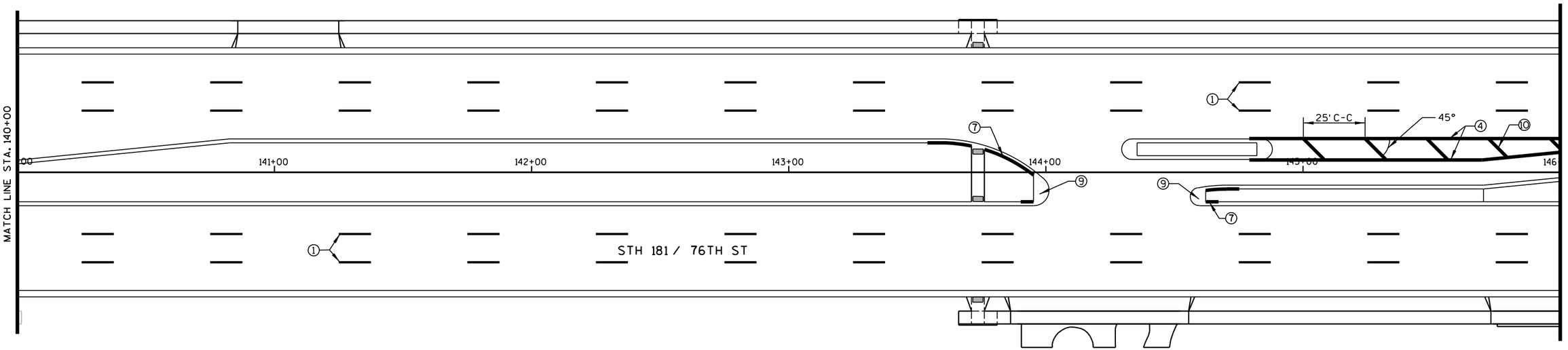


LEGEND

①	PAVEMENT MARKING WET REFLECTIVE TAPE 4-INCH, WHITE SKIP, 12½' SEG., 37½' GAP
②	PAVEMENT MARKING EPOXY 4-INCH, WHITE
③	PAVEMENT MARKING EPOXY 4-INCH, YELLOW
④	PAVEMENT MARKING EPOXY 8-INCH, WHITE
⑤	PAVEMENT MARKING ARROWS EPOXY TYPE 2
⑥	PAVEMENT MARKING WORDS EPOXY
⑦	PAVEMENT MARKING CURB EPOXY, YELLOW
⑧	PAVEMENT MARKING STOP LINE EPOXY 18-INCH
⑨	PAVEMENT MARKING ISLAND NOSE EPOXY, YELLOW
⑩	PAVEMENT MARKING DIAGONAL EPOXY 12-INCH
⑪	PAVEMENT MARKING CROSSWALK EPOXY 6-INCH
⑫	PAVEMENT MARKING EPOXY 4-INCH, WHITE SKIP, 5' SEG., 5' GAP
⑬	PAVEMENT MARKING EPOXY 8-INCH, WHITE SKIP, 3' SEG., 12' GAP
⑭	PAVEMENT MARKING ARROWS EPOXY TYPE 3
⑮	PAVEMENT MARKING GROOVED WET REFLECTIVE TAPE 4-INCH, WHITE SKIP, 12½' SEG., 37½GAP

2

N



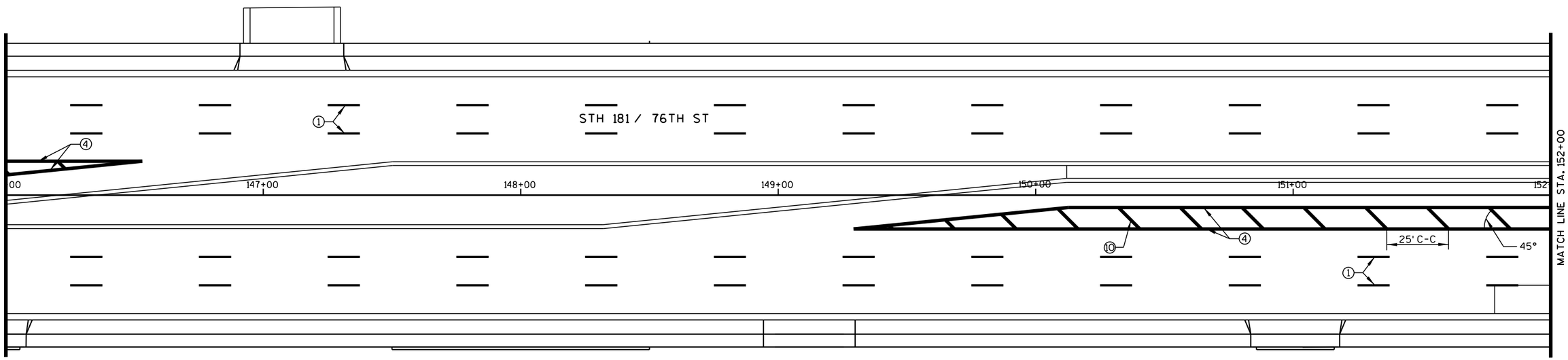
LEGEND

①	PAVEMENT MARKING WET REFLECTIVE TAPE 4-INCH, WHITE SKIP, 12½' SEG., 37½' GAP
②	PAVEMENT MARKING EPOXY 4-INCH, WHITE
③	PAVEMENT MARKING EPOXY 4-INCH, YELLOW
④	PAVEMENT MARKING EPOXY 8-INCH, WHITE
⑤	PAVEMENT MARKING ARROWS EPOXY TYPE 2
⑥	PAVEMENT MARKING WORDS EPOXY
⑦	PAVEMENT MARKING CURB EPOXY, YELLOW
⑧	PAVEMENT MARKING STOP LINE EPOXY 18-INCH
⑨	PAVEMENT MARKING ISLAND NOSE EPOXY, YELLOW
⑩	PAVEMENT MARKING DIAGONAL EPOXY 12-INCH
⑪	PAVEMENT MARKING CROSSWALK EPOXY 6-INCH
⑫	PAVEMENT MARKING EPOXY 4-INCH, WHITE SKIP, 5' SEG., 5' GAP
⑬	PAVEMENT MARKING EPOXY 8-INCH, WHITE SKIP, 3' SEG., 12' GAP
⑭	PAVEMENT MARKING ARROWS EPOXY TYPE 3
⑮	PAVEMENT MARKING GROOVED WET REFLECTIVE TAPE 4-INCH, WHITE SKIP, 12½' SEG., 37½GAP

PROJECT NO: 2140-08-73	HWY: STH 181	COUNTY: MILWAUKEE	PAVEMENT MARKING	SHEET	E

FILE NAME : s:\@sai\051--100\089\099\micros\design\0873\024902_pm.dgn PLOT DATE : 7/30/2007 PLOT BY : $$...plotuser...$$ PLOT NAME : PLOT SCALE : $$.....plotscale.....$$
WISDOT/CADDS SHEET 42

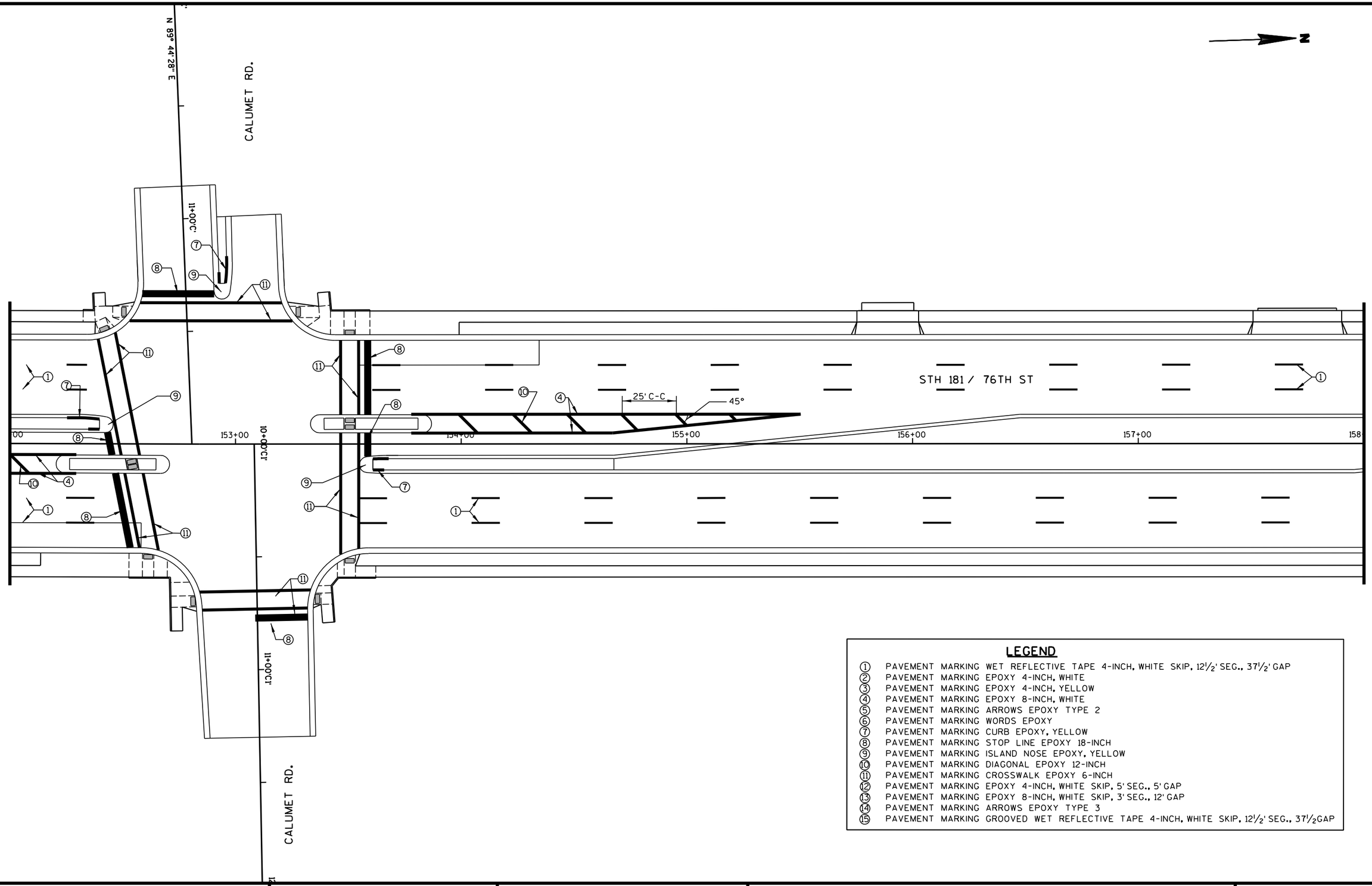
2



LEGEND

①	PAVEMENT MARKING WET REFLECTIVE TAPE 4-INCH, WHITE SKIP, 12½' SEG., 37½' GAP
②	PAVEMENT MARKING EPOXY 4-INCH, WHITE
③	PAVEMENT MARKING EPOXY 4-INCH, YELLOW
④	PAVEMENT MARKING EPOXY 8-INCH, WHITE
⑤	PAVEMENT MARKING ARROWS EPOXY TYPE 2
⑥	PAVEMENT MARKING WORDS EPOXY
⑦	PAVEMENT MARKING CURB EPOXY, YELLOW
⑧	PAVEMENT MARKING STOP LINE EPOXY 18-INCH
⑨	PAVEMENT MARKING ISLAND NOSE EPOXY, YELLOW
⑩	PAVEMENT MARKING DIAGONAL EPOXY 12-INCH
⑪	PAVEMENT MARKING CROSSWALK EPOXY 6-INCH
⑫	PAVEMENT MARKING EPOXY 4-INCH, WHITE SKIP, 5' SEG., 5' GAP
⑬	PAVEMENT MARKING EPOXY 8-INCH, WHITE SKIP, 3' SEG., 12' GAP
⑭	PAVEMENT MARKING ARROWS EPOXY TYPE 3
⑮	PAVEMENT MARKING GROOVED WET REFLECTIVE TAPE 4-INCH, WHITE SKIP, 12½' SEG., 37½GAP

2



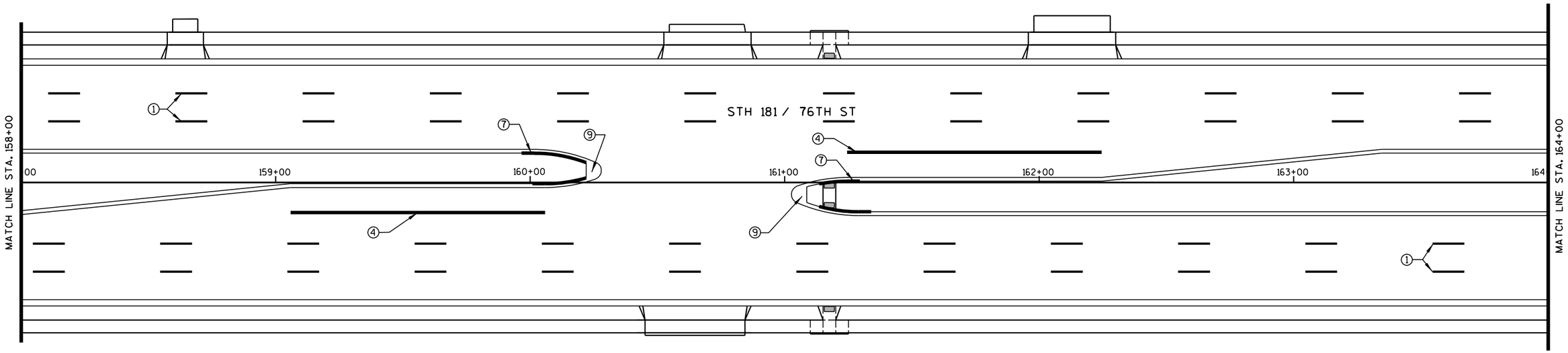
LEGEND

①	PAVEMENT MARKING WET REFLECTIVE TAPE 4-INCH, WHITE SKIP, 12½' SEG., 37½' GAP
②	PAVEMENT MARKING EPOXY 4-INCH, WHITE
③	PAVEMENT MARKING EPOXY 4-INCH, YELLOW
④	PAVEMENT MARKING EPOXY 8-INCH, WHITE
⑤	PAVEMENT MARKING ARROWS EPOXY TYPE 2
⑥	PAVEMENT MARKING WORDS EPOXY
⑦	PAVEMENT MARKING CURB EPOXY, YELLOW
⑧	PAVEMENT MARKING STOP LINE EPOXY 18-INCH
⑨	PAVEMENT MARKING ISLAND NOSE EPOXY, YELLOW
⑩	PAVEMENT MARKING DIAGONAL EPOXY 12-INCH
⑪	PAVEMENT MARKING CROSSWALK EPOXY 6-INCH
⑫	PAVEMENT MARKING EPOXY 4-INCH, WHITE SKIP, 5' SEG., 5' GAP
⑬	PAVEMENT MARKING EPOXY 8-INCH, WHITE SKIP, 3' SEG., 12' GAP
⑭	PAVEMENT MARKING ARROWS EPOXY TYPE 3
⑮	PAVEMENT MARKING GROOVED WET REFLECTIVE TAPE 4-INCH, WHITE SKIP, 12½' SEG., 37½GAP

PROJECT NO: 2140-08-73	HWY: STH 181	COUNTY: MILWAUKEE	PAVEMENT MARKING	SHEET	E

FILE NAME : s:\@sdi\051--100\089\099\micros\design\0873\024904_pm.dgn PLOT DATE : 7/30/2007 PLOT BY : $$...plotuser...$$ PLOT NAME : PLOT SCALE : $$.....plotscale.....$$ WISDOT/CADDS SHEET 42

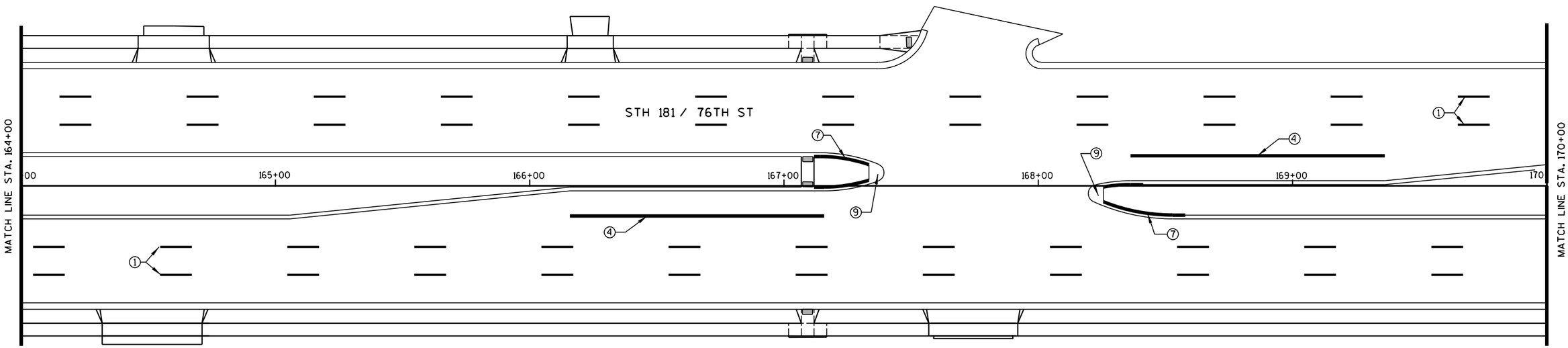
2



LEGEND

①	PAVEMENT MARKING WET REFLECTIVE TAPE 4-INCH, WHITE SKIP, 12½' SEG., 37½' GAP
②	PAVEMENT MARKING EPOXY 4-INCH, WHITE
③	PAVEMENT MARKING EPOXY 4-INCH, YELLOW
④	PAVEMENT MARKING EPOXY 8-INCH, WHITE
⑤	PAVEMENT MARKING ARROWS EPOXY TYPE 2
⑥	PAVEMENT MARKING WORDS EPOXY
⑦	PAVEMENT MARKING CURB EPOXY, YELLOW
⑧	PAVEMENT MARKING STOP LINE EPOXY 18-INCH
⑨	PAVEMENT MARKING ISLAND NOSE EPOXY, YELLOW
⑩	PAVEMENT MARKING DIAGONAL EPOXY 12-INCH
⑪	PAVEMENT MARKING CROSSWALK EPOXY 6-INCH
⑫	PAVEMENT MARKING EPOXY 4-INCH, WHITE SKIP, 5' SEG., 5' GAP
⑬	PAVEMENT MARKING EPOXY 8-INCH, WHITE SKIP, 3' SEG., 12' GAP
⑭	PAVEMENT MARKING ARROWS EPOXY TYPE 3
⑮	PAVEMENT MARKING GROOVED WET REFLECTIVE TAPE 4-INCH, WHITE SKIP, 12½' SEG., 37½GAP

2



LEGEND

①	PAVEMENT MARKING WET REFLECTIVE TAPE 4-INCH, WHITE SKIP, 12½' SEG., 37½' GAP
②	PAVEMENT MARKING EPOXY 4-INCH, WHITE
③	PAVEMENT MARKING EPOXY 4-INCH, YELLOW
④	PAVEMENT MARKING EPOXY 8-INCH, WHITE
⑤	PAVEMENT MARKING ARROWS EPOXY TYPE 2
⑥	PAVEMENT MARKING WORDS EPOXY
⑦	PAVEMENT MARKING CURB EPOXY, YELLOW
⑧	PAVEMENT MARKING STOP LINE EPOXY 18-INCH
⑨	PAVEMENT MARKING ISLAND NOSE EPOXY, YELLOW
⑩	PAVEMENT MARKING DIAGONAL EPOXY 12-INCH
⑪	PAVEMENT MARKING CROSSWALK EPOXY 6-INCH
⑫	PAVEMENT MARKING EPOXY 4-INCH, WHITE SKIP, 5' SEG., 5' GAP
⑬	PAVEMENT MARKING EPOXY 8-INCH, WHITE SKIP, 3' SEG., 12' GAP
⑭	PAVEMENT MARKING ARROWS EPOXY TYPE 3
⑮	PAVEMENT MARKING GROOVED WET REFLECTIVE TAPE 4-INCH, WHITE SKIP, 12½' SEG., 37½GAP

2

N

LOITA AVE.

8+00'F'

9+00'F'

STH 181 / 76TH ST

MATCH LINE STA. 170+00

MATCH LINE STA. 176+00

00

171+00

172+00

173+00

174+00

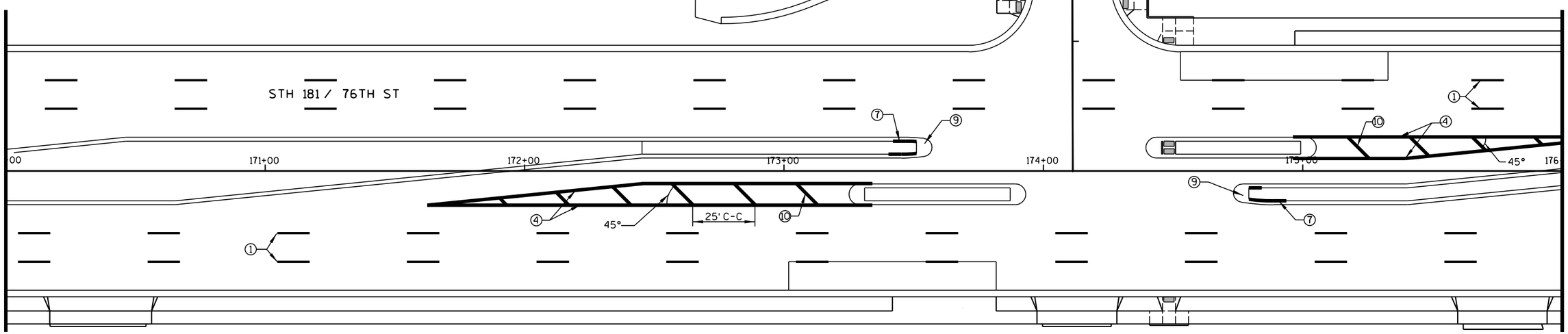
175+00

176

45°

25' C-C

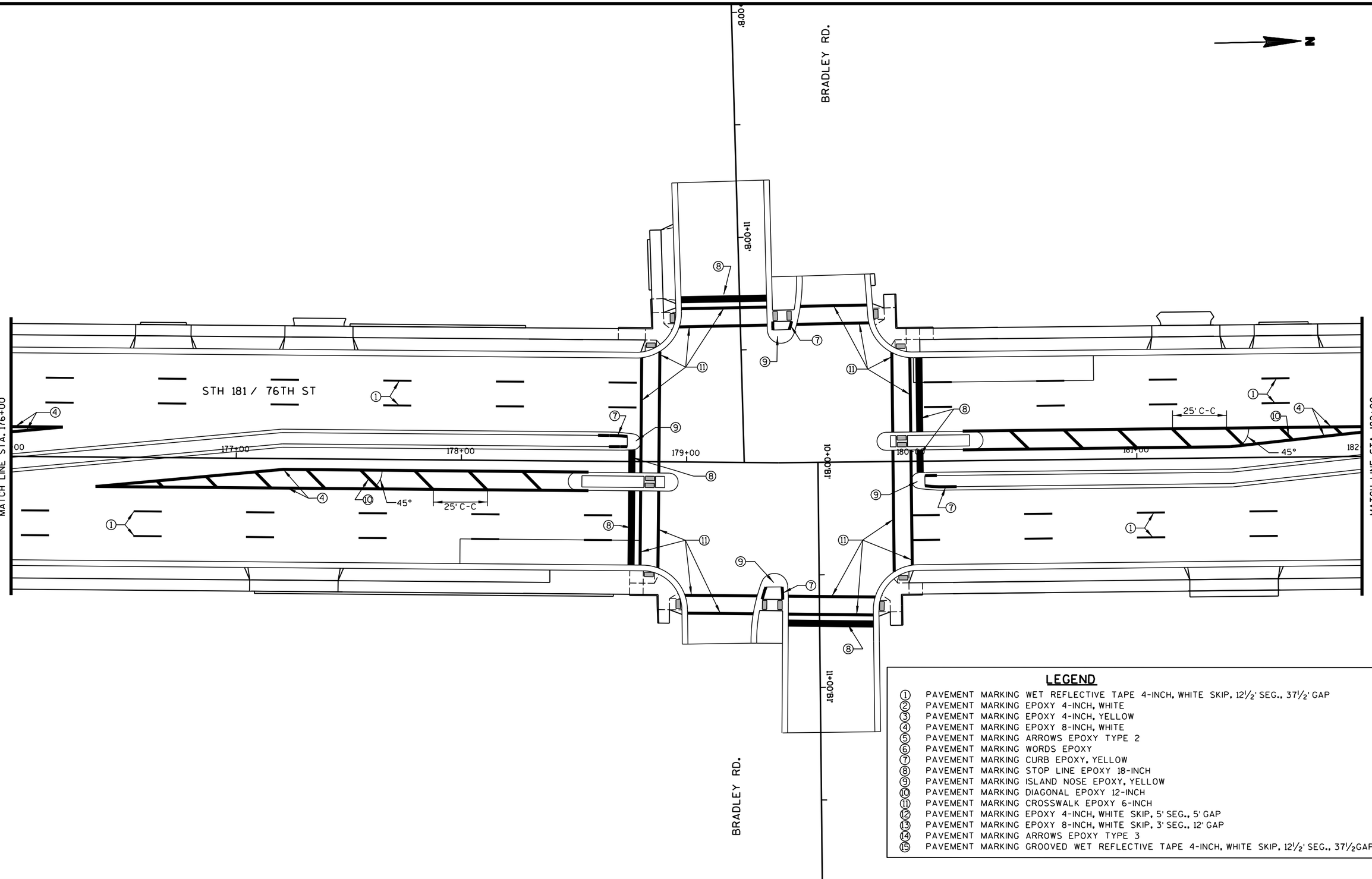
45°



LEGEND

①	PAVEMENT MARKING WET REFLECTIVE TAPE 4-INCH, WHITE SKIP, 12½' SEG., 37½' GAP
②	PAVEMENT MARKING EPOXY 4-INCH, WHITE
③	PAVEMENT MARKING EPOXY 4-INCH, YELLOW
④	PAVEMENT MARKING EPOXY 8-INCH, WHITE
⑤	PAVEMENT MARKING ARROWS EPOXY TYPE 2
⑥	PAVEMENT MARKING WORDS EPOXY
⑦	PAVEMENT MARKING CURB EPOXY, YELLOW
⑧	PAVEMENT MARKING STOP LINE EPOXY 18-INCH
⑨	PAVEMENT MARKING ISLAND NOSE EPOXY, YELLOW
⑩	PAVEMENT MARKING DIAGONAL EPOXY 12-INCH
⑪	PAVEMENT MARKING CROSSWALK EPOXY 6-INCH
⑫	PAVEMENT MARKING EPOXY 4-INCH, WHITE SKIP, 5' SEG., 5' GAP
⑬	PAVEMENT MARKING EPOXY 8-INCH, WHITE SKIP, 3' SEG., 12' GAP
⑭	PAVEMENT MARKING ARROWS EPOXY TYPE 3
⑮	PAVEMENT MARKING GROOVED WET REFLECTIVE TAPE 4-INCH, WHITE SKIP, 12½' SEG., 37½GAP

2

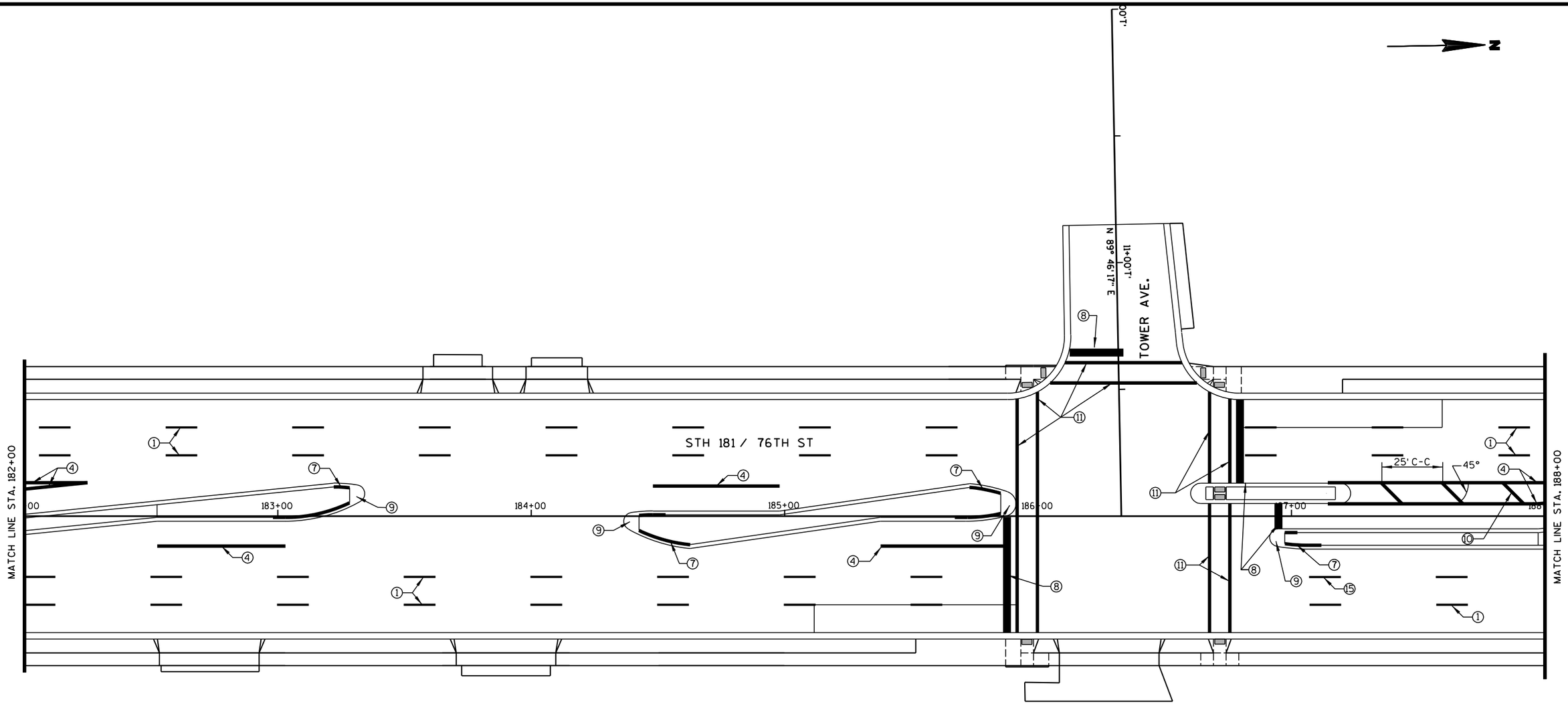


LEGEND

1. PAVEMENT MARKING WET REFLECTIVE TAPE 4-INCH, WHITE SKIP, 12½' SEG., 37½' GAP
2. PAVEMENT MARKING EPOXY 4-INCH, WHITE
3. PAVEMENT MARKING EPOXY 4-INCH, YELLOW
4. PAVEMENT MARKING EPOXY 8-INCH, WHITE
5. PAVEMENT MARKING ARROWS EPOXY TYPE 2
6. PAVEMENT MARKING WORDS EPOXY
7. PAVEMENT MARKING CURB EPOXY, YELLOW
8. PAVEMENT MARKING STOP LINE EPOXY 18-INCH
9. PAVEMENT MARKING ISLAND NOSE EPOXY, YELLOW
10. PAVEMENT MARKING DIAGONAL EPOXY 12-INCH
11. PAVEMENT MARKING CROSSWALK EPOXY 6-INCH
12. PAVEMENT MARKING EPOXY 4-INCH, WHITE SKIP, 5' SEG., 5' GAP
13. PAVEMENT MARKING EPOXY 8-INCH, WHITE SKIP, 3' SEG., 12' GAP
14. PAVEMENT MARKING ARROWS EPOXY TYPE 3
15. PAVEMENT MARKING GROOVED WET REFLECTIVE TAPE 4-INCH, WHITE SKIP, 12½' SEG., 37½GAP

PROJECT NO: 2140-08-73	HWY: STH 181	COUNTY: MILWAUKEE	PAVEMENT MARKING	SHEET 332	E

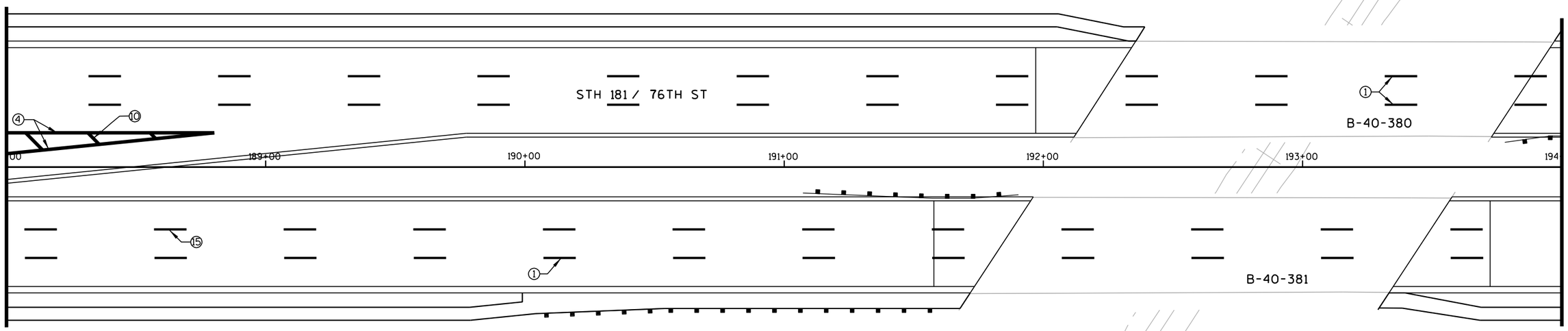
2



LEGEND

①	PAVEMENT MARKING WET REFLECTIVE TAPE 4-INCH, WHITE SKIP, 12½' SEG., 37½' GAP
②	PAVEMENT MARKING EPOXY 4-INCH, WHITE
③	PAVEMENT MARKING EPOXY 4-INCH, YELLOW
④	PAVEMENT MARKING EPOXY 8-INCH, WHITE
⑤	PAVEMENT MARKING ARROWS EPOXY TYPE 2
⑥	PAVEMENT MARKING WORDS EPOXY
⑦	PAVEMENT MARKING CURB EPOXY, YELLOW
⑧	PAVEMENT MARKING STOP LINE EPOXY 18-INCH
⑨	PAVEMENT MARKING ISLAND NOSE EPOXY, YELLOW
⑩	PAVEMENT MARKING DIAGONAL EPOXY 12-INCH
⑪	PAVEMENT MARKING CROSSWALK EPOXY 6-INCH
⑫	PAVEMENT MARKING EPOXY 4-INCH, WHITE SKIP, 5' SEG., 5' GAP
⑬	PAVEMENT MARKING EPOXY 8-INCH, WHITE SKIP, 3' SEG., 12' GAP
⑭	PAVEMENT MARKING ARROWS EPOXY TYPE 3
⑮	PAVEMENT MARKING GROOVED WET REFLECTIVE TAPE 4-INCH, WHITE SKIP, 12½' SEG., 37½GAP

2



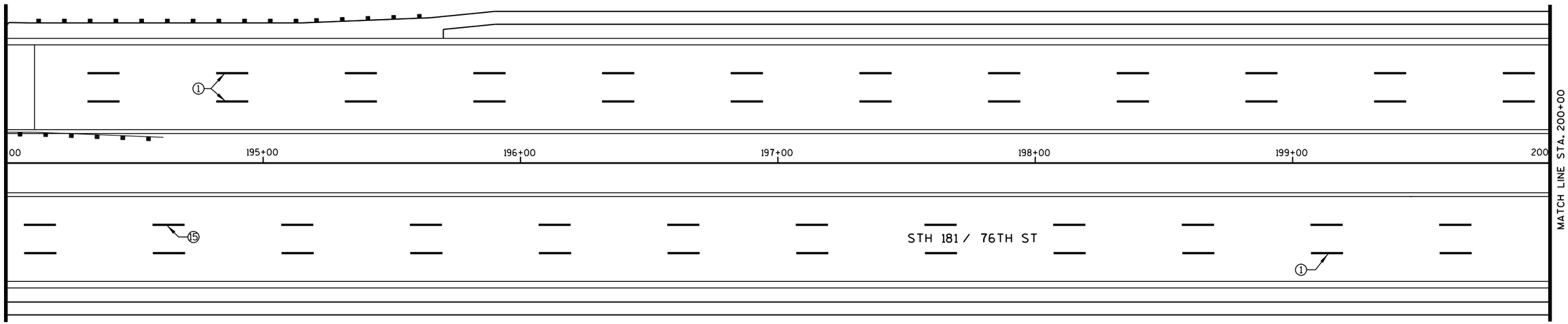
LEGEND

①	PAVEMENT MARKING WET REFLECTIVE TAPE 4-INCH, WHITE SKIP, 12½' SEG., 37½' GAP
②	PAVEMENT MARKING EPOXY 4-INCH, WHITE
③	PAVEMENT MARKING EPOXY 4-INCH, YELLOW
④	PAVEMENT MARKING EPOXY 8-INCH, WHITE
⑤	PAVEMENT MARKING ARROWS EPOXY TYPE 2
⑥	PAVEMENT MARKING WORDS EPOXY
⑦	PAVEMENT MARKING CURB EPOXY, YELLOW
⑧	PAVEMENT MARKING STOP LINE EPOXY 18-INCH
⑨	PAVEMENT MARKING ISLAND NOSE EPOXY, YELLOW
⑩	PAVEMENT MARKING DIAGONAL EPOXY 12-INCH
⑪	PAVEMENT MARKING CROSSWALK EPOXY 6-INCH
⑫	PAVEMENT MARKING EPOXY 4-INCH, WHITE SKIP, 5' SEG., 5' GAP
⑬	PAVEMENT MARKING EPOXY 8-INCH, WHITE SKIP, 3' SEG., 12' GAP
⑭	PAVEMENT MARKING ARROWS EPOXY TYPE 3
⑮	PAVEMENT MARKING GROOVED WET REFLECTIVE TAPE 4-INCH, WHITE SKIP, 12½' SEG., 37½GAP

PROJECT NO: 2140-08-73	HWY: STH 181	COUNTY: MILWAUKEE	PAVEMENT MARKING	SHEET 334	E

2

N

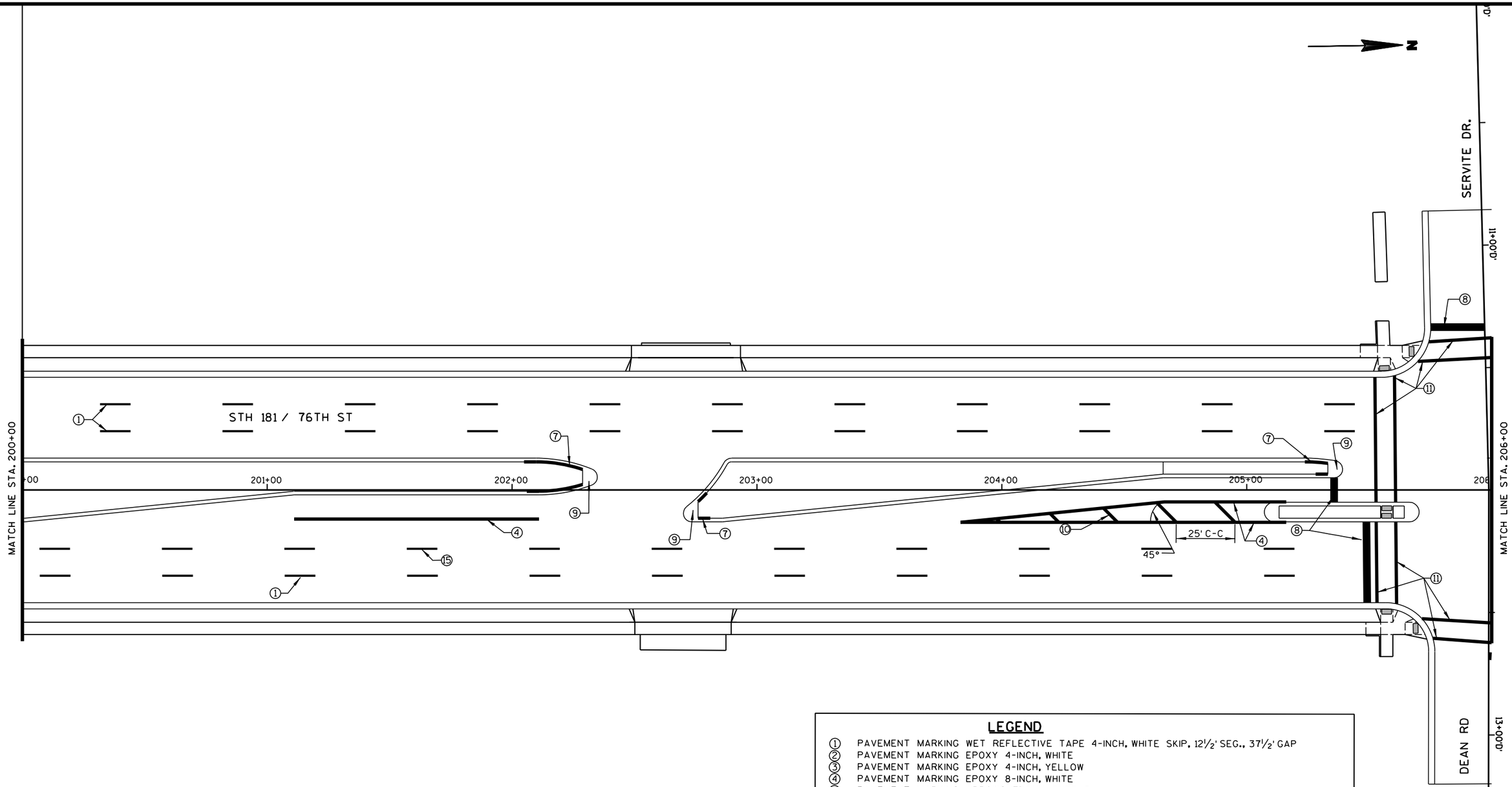


LEGEND

1. PAVEMENT MARKING WET REFLECTIVE TAPE 4-INCH, WHITE SKIP, 12½' SEG., 37½' GAP
2. PAVEMENT MARKING EPOXY 4-INCH, WHITE
3. PAVEMENT MARKING EPOXY 4-INCH, YELLOW
4. PAVEMENT MARKING EPOXY 8-INCH, WHITE
5. PAVEMENT MARKING ARROWS EPOXY TYPE 2
6. PAVEMENT MARKING WORDS EPOXY
7. PAVEMENT MARKING CURB EPOXY, YELLOW
8. PAVEMENT MARKING STOP LINE EPOXY 18-INCH
9. PAVEMENT MARKING ISLAND NOSE EPOXY, YELLOW
10. PAVEMENT MARKING DIAGONAL EPOXY 12-INCH
11. PAVEMENT MARKING CROSSWALK EPOXY 6-INCH
12. PAVEMENT MARKING EPOXY 4-INCH, WHITE SKIP, 5' SEG., 5' GAP
13. PAVEMENT MARKING EPOXY 8-INCH, WHITE SKIP, 3' SEG., 12' GAP
14. PAVEMENT MARKING ARROWS EPOXY TYPE 3
15. PAVEMENT MARKING GROOVED WET REFLECTIVE TAPE 4-INCH, WHITE SKIP, 12½' SEG., 37½GAP

PROJECT NO: 2140-08-73	HWY: STH 181	COUNTY: MILWAUKEE	PAVEMENT MARKING	SHEET 335	E

2



LEGEND

①	PAVEMENT MARKING WET REFLECTIVE TAPE 4-INCH, WHITE SKIP, 12½' SEG., 37½' GAP
②	PAVEMENT MARKING EPOXY 4-INCH, WHITE
③	PAVEMENT MARKING EPOXY 4-INCH, YELLOW
④	PAVEMENT MARKING EPOXY 8-INCH, WHITE
⑤	PAVEMENT MARKING ARROWS EPOXY TYPE 2
⑥	PAVEMENT MARKING WORDS EPOXY
⑦	PAVEMENT MARKING CURB EPOXY, YELLOW
⑧	PAVEMENT MARKING STOP LINE EPOXY 18-INCH
⑨	PAVEMENT MARKING ISLAND NOSE EPOXY, YELLOW
⑩	PAVEMENT MARKING DIAGONAL EPOXY 12-INCH
⑪	PAVEMENT MARKING CROSSWALK EPOXY 6-INCH
⑫	PAVEMENT MARKING EPOXY 4-INCH, WHITE SKIP, 5' SEG., 5' GAP
⑬	PAVEMENT MARKING EPOXY 8-INCH, WHITE SKIP, 3' SEG., 12' GAP
⑭	PAVEMENT MARKING ARROWS EPOXY TYPE 3
⑮	PAVEMENT MARKING GROOVED WET REFLECTIVE TAPE 4-INCH, WHITE SKIP, 12½' SEG., 37½GAP

PROJECT NO: 2140-08-73	HWY: STH 181	COUNTY: MILWAUKEE	PAVEMENT MARKING	SHEET	E

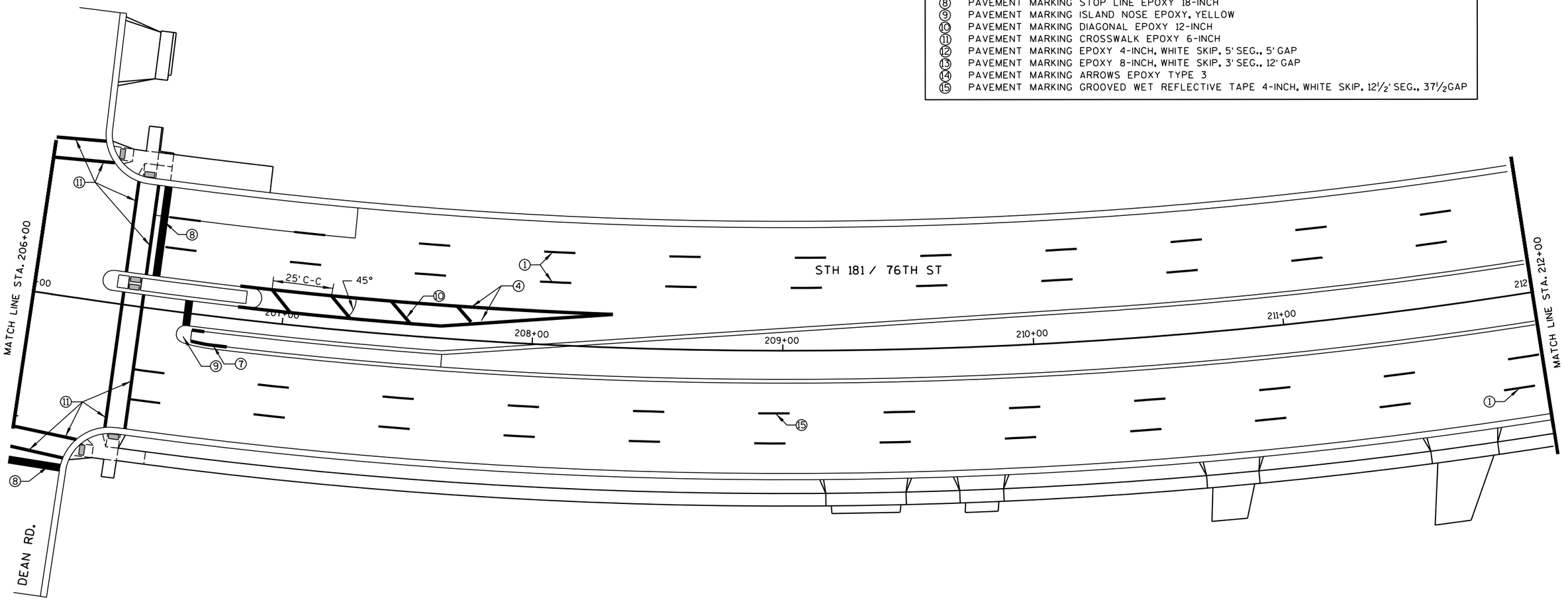
FILE NAME : s:\@sai\051--100\089\099\micros\design\0873\024912_pm.dgn PLOT DATE : 7/30/2007 PLOT BY : $$...plotuser...$$ PLOT NAME : PLOT SCALE : $$.....plotscale.....$$ WISDOT/CADDS SHEET 42

2

N

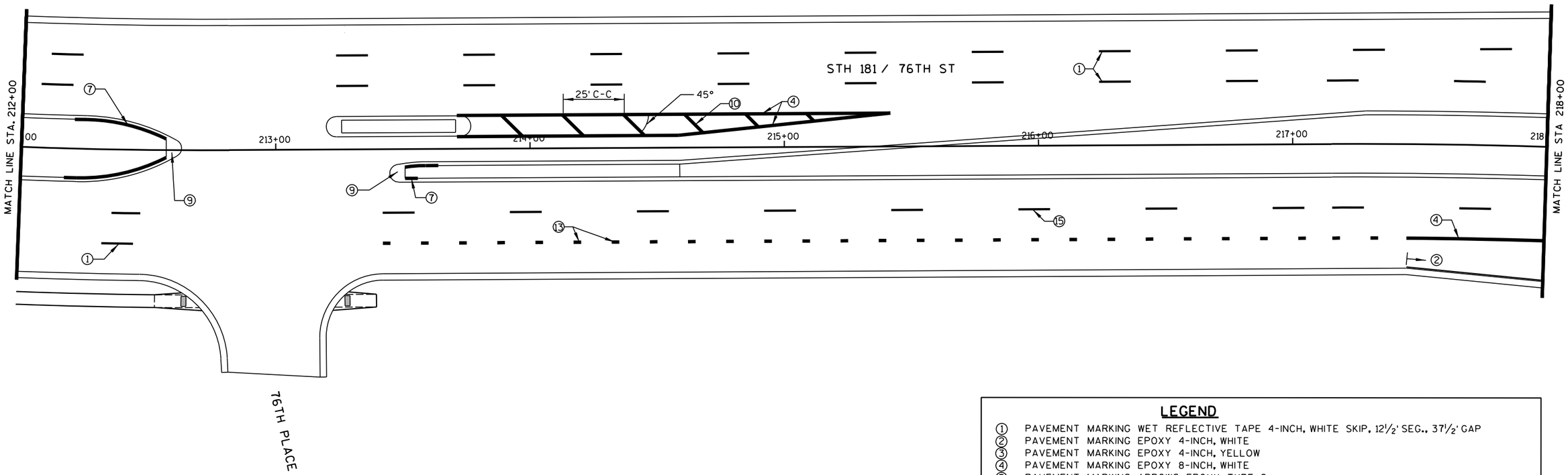
LEGEND

①	PAVEMENT MARKING WET REFLECTIVE TAPE 4-INCH, WHITE SKIP, 12½' SEG., 37½' GAP
②	PAVEMENT MARKING EPOXY 4-INCH, WHITE
③	PAVEMENT MARKING EPOXY 4-INCH, YELLOW
④	PAVEMENT MARKING EPOXY 8-INCH, WHITE
⑤	PAVEMENT MARKING ARROWS EPOXY TYPE 2
⑥	PAVEMENT MARKING WORDS EPOXY
⑦	PAVEMENT MARKING CURB EPOXY, YELLOW
⑧	PAVEMENT MARKING STOP LINE EPOXY 18-INCH
⑨	PAVEMENT MARKING ISLAND NOSE EPOXY, YELLOW
⑩	PAVEMENT MARKING DIAGONAL EPOXY 12-INCH
⑪	PAVEMENT MARKING CROSSWALK EPOXY 6-INCH
⑫	PAVEMENT MARKING EPOXY 4-INCH, WHITE SKIP, 5' SEG., 5' GAP
⑬	PAVEMENT MARKING EPOXY 8-INCH, WHITE SKIP, 3' SEG., 12' GAP
⑭	PAVEMENT MARKING ARROWS EPOXY TYPE 3
⑮	PAVEMENT MARKING GROOVED WET REFLECTIVE TAPE 4-INCH, WHITE SKIP, 12½' SEG., 37½GAP



PROJECT NO: 2140-08-73	HWY: STH 181	COUNTY: MILWAUKEE	PAVEMENT MARKING	SHEET 337 E

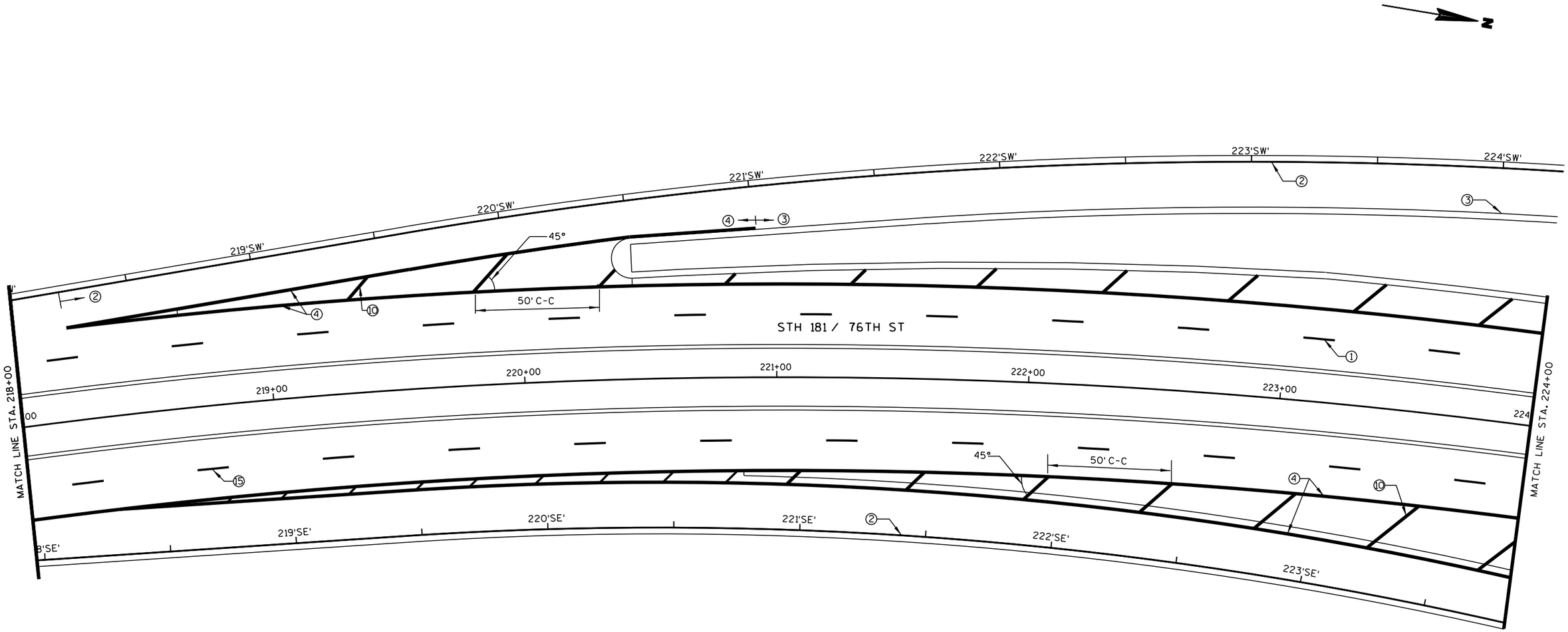
2



LEGEND

①	PAVEMENT MARKING WET REFLECTIVE TAPE 4-INCH, WHITE SKIP, 12½' SEG., 37½' GAP
②	PAVEMENT MARKING EPOXY 4-INCH, WHITE
③	PAVEMENT MARKING EPOXY 4-INCH, YELLOW
④	PAVEMENT MARKING EPOXY 8-INCH, WHITE
⑤	PAVEMENT MARKING ARROWS EPOXY TYPE 2
⑥	PAVEMENT MARKING WORDS EPOXY
⑦	PAVEMENT MARKING CURB EPOXY, YELLOW
⑧	PAVEMENT MARKING STOP LINE EPOXY 18-INCH
⑨	PAVEMENT MARKING ISLAND NOSE EPOXY, YELLOW
⑩	PAVEMENT MARKING DIAGONAL EPOXY 12-INCH
⑪	PAVEMENT MARKING CROSSWALK EPOXY 6-INCH
⑫	PAVEMENT MARKING EPOXY 4-INCH, WHITE SKIP, 5' SEG., 5' GAP
⑬	PAVEMENT MARKING EPOXY 8-INCH, WHITE SKIP, 3' SEG., 12' GAP
⑭	PAVEMENT MARKING ARROWS EPOXY TYPE 3
⑮	PAVEMENT MARKING GROOVED WET REFLECTIVE TAPE 4-INCH, WHITE SKIP, 12½' SEG., 37½GAP

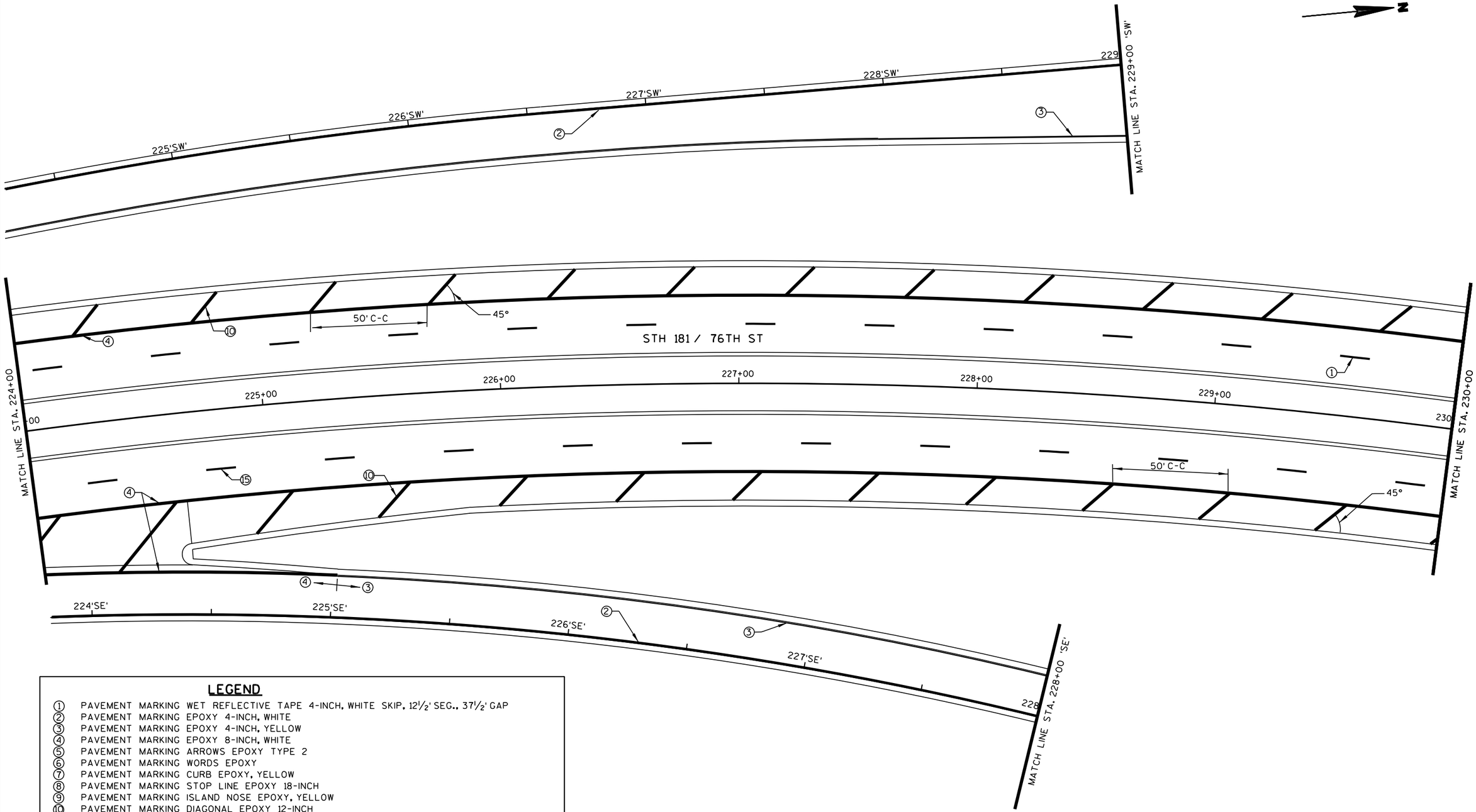
2



LEGEND

①	PAVEMENT MARKING WET REFLECTIVE TAPE 4-INCH, WHITE SKIP, 12½' SEG., 37½' GAP
②	PAVEMENT MARKING EPOXY 4-INCH, WHITE
③	PAVEMENT MARKING EPOXY 4-INCH, YELLOW
④	PAVEMENT MARKING EPOXY 8-INCH, WHITE
⑤	PAVEMENT MARKING ARROWS EPOXY TYPE 2
⑥	PAVEMENT MARKING WORDS EPOXY
⑦	PAVEMENT MARKING CURB EPOXY, YELLOW
⑧	PAVEMENT MARKING STOP LINE EPOXY 18-INCH
⑨	PAVEMENT MARKING ISLAND NOSE EPOXY, YELLOW
⑩	PAVEMENT MARKING DIAGONAL EPOXY 12-INCH
⑪	PAVEMENT MARKING CROSSWALK EPOXY 6-INCH
⑫	PAVEMENT MARKING EPOXY 4-INCH, WHITE SKIP, 5' SEG., 5' GAP
⑬	PAVEMENT MARKING EPOXY 8-INCH, WHITE SKIP, 3' SEG., 12' GAP
⑭	PAVEMENT MARKING ARROWS EPOXY TYPE 3
⑮	PAVEMENT MARKING GROOVED WET REFLECTIVE TAPE 4-INCH, WHITE SKIP, 12½' SEG., 37½GAP

2



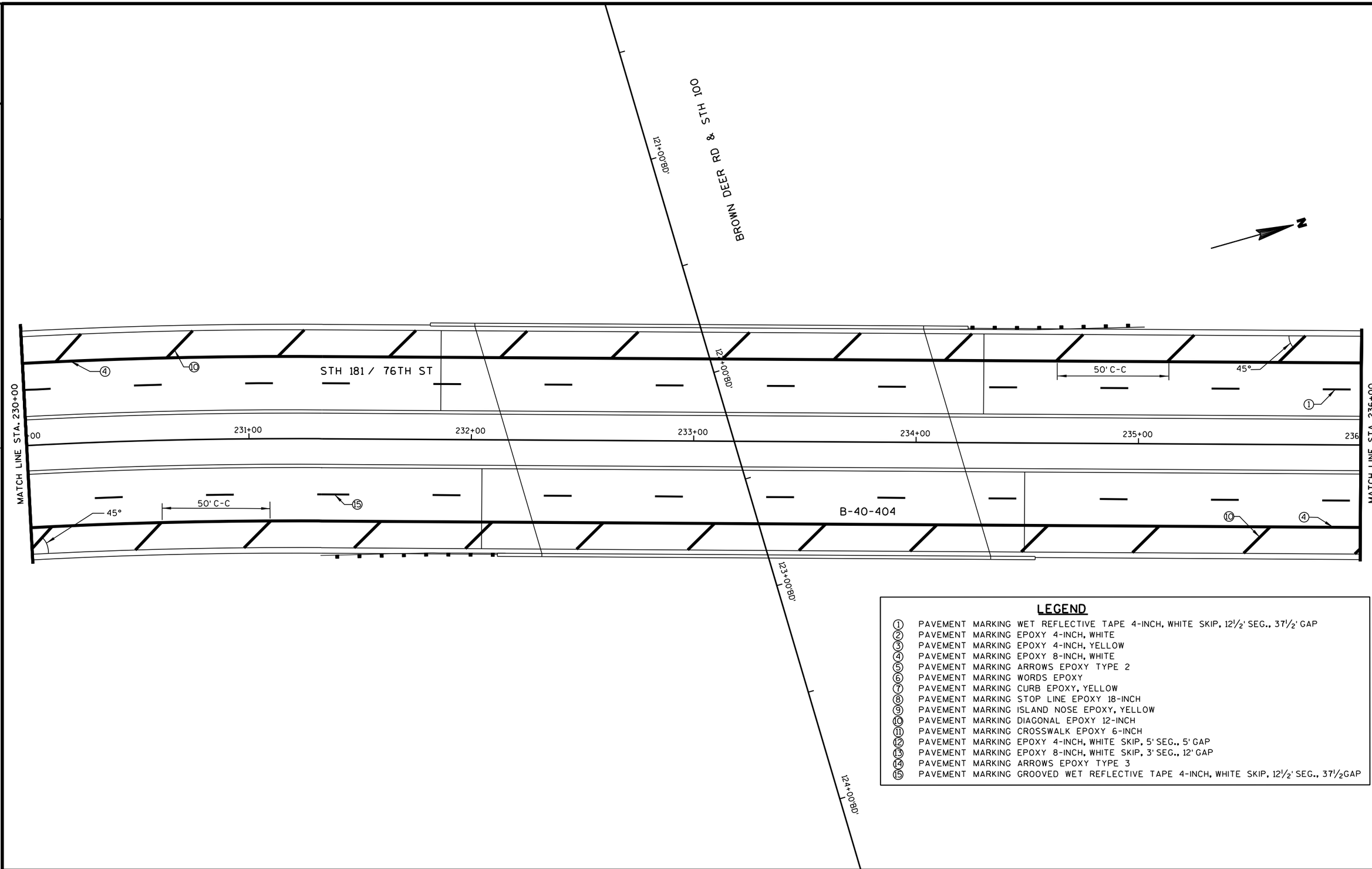
LEGEND

① PAVEMENT MARKING WET REFLECTIVE TAPE 4-INCH, WHITE SKIP, 12½' SEG., 37½' GAP
② PAVEMENT MARKING EPOXY 4-INCH, WHITE
③ PAVEMENT MARKING EPOXY 4-INCH, YELLOW
④ PAVEMENT MARKING EPOXY 8-INCH, WHITE
⑤ PAVEMENT MARKING ARROWS EPOXY TYPE 2
⑥ PAVEMENT MARKING WORDS EPOXY
⑦ PAVEMENT MARKING CURB EPOXY, YELLOW
⑧ PAVEMENT MARKING STOP LINE EPOXY 18-INCH
⑨ PAVEMENT MARKING ISLAND NOSE EPOXY, YELLOW
⑩ PAVEMENT MARKING DIAGONAL EPOXY 12-INCH
⑪ PAVEMENT MARKING CROSSWALK EPOXY 6-INCH
⑫ PAVEMENT MARKING EPOXY 4-INCH, WHITE SKIP, 5' SEG., 5' GAP
⑬ PAVEMENT MARKING EPOXY 8-INCH, WHITE SKIP, 3' SEG., 12' GAP
⑭ PAVEMENT MARKING ARROWS EPOXY TYPE 3
⑮ PAVEMENT MARKING GROOVED WET REFLECTIVE TAPE 4-INCH, WHITE SKIP, 12½' SEG., 37½GAP

PROJECT NO: 2140-08-73	HWY: STH 181	COUNTY: MILWAUKEE	PAVEMENT MARKING	SHEET	E

FILE NAME : s:\@sdi\051--100\089\099\micros\design\0873\024916_pm.dgn PLOT DATE : 7/30/2007 PLOT BY : $$...plotuser...$$ PLOT NAME : PLOT SCALE : $$.....plotscale.....$$ WISDOT/CADDS SHEET 42

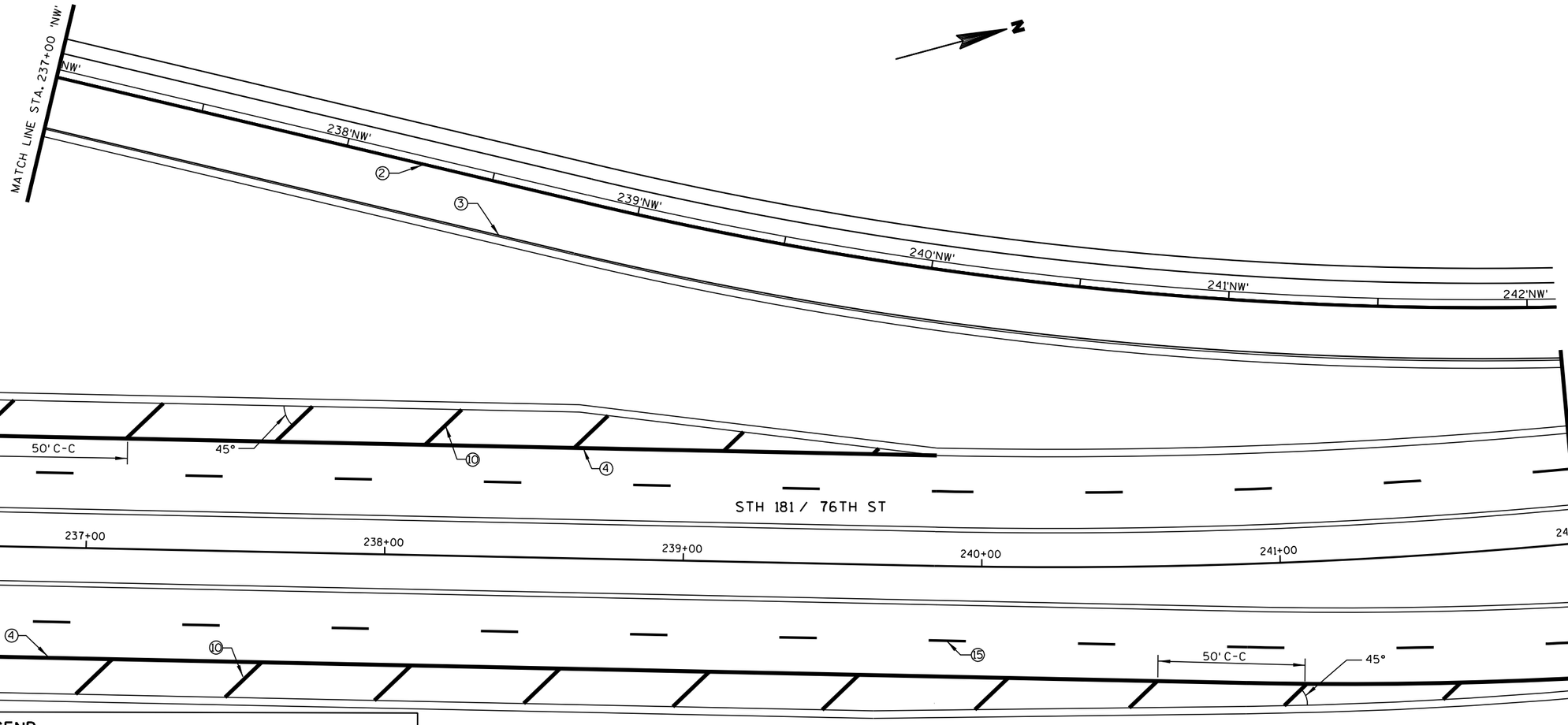
2



LEGEND

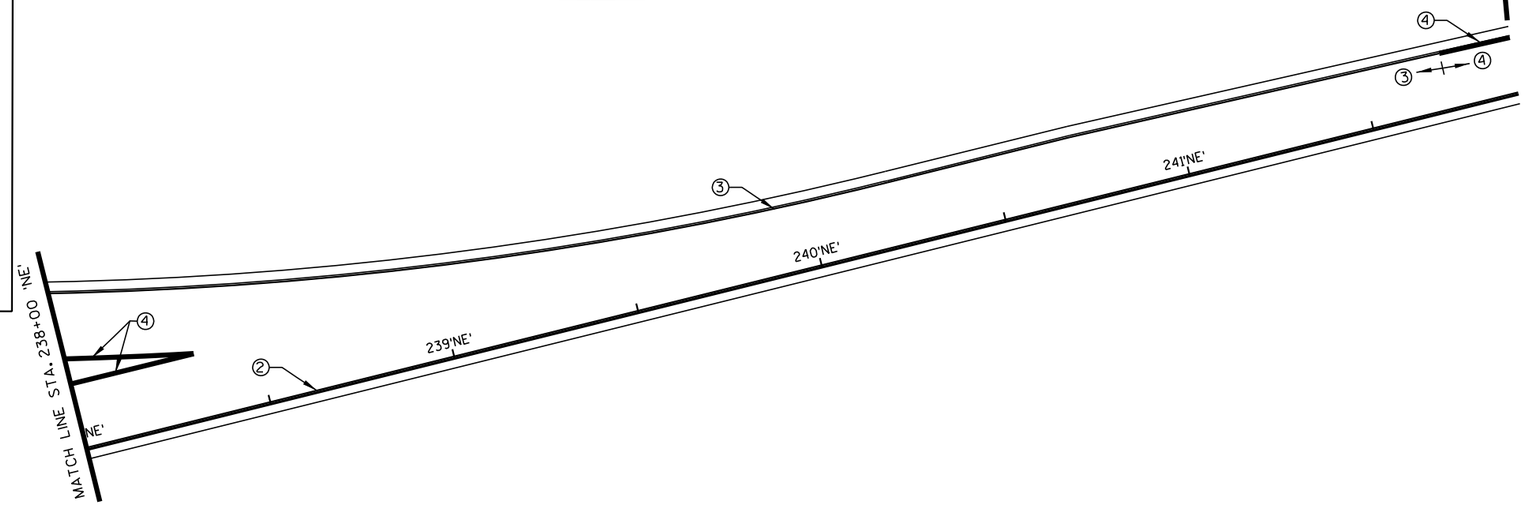
①	PAVEMENT MARKING WET REFLECTIVE TAPE 4-INCH, WHITE SKIP, 12½' SEG., 37½' GAP
②	PAVEMENT MARKING EPOXY 4-INCH, WHITE
③	PAVEMENT MARKING EPOXY 4-INCH, YELLOW
④	PAVEMENT MARKING EPOXY 8-INCH, WHITE
⑤	PAVEMENT MARKING ARROWS EPOXY TYPE 2
⑥	PAVEMENT MARKING WORDS EPOXY
⑦	PAVEMENT MARKING CURB EPOXY, YELLOW
⑧	PAVEMENT MARKING STOP LINE EPOXY 18-INCH
⑨	PAVEMENT MARKING ISLAND NOSE EPOXY, YELLOW
⑩	PAVEMENT MARKING DIAGONAL EPOXY 12-INCH
⑪	PAVEMENT MARKING CROSSWALK EPOXY 6-INCH
⑫	PAVEMENT MARKING EPOXY 4-INCH, WHITE SKIP, 5' SEG., 5' GAP
⑬	PAVEMENT MARKING EPOXY 8-INCH, WHITE SKIP, 3' SEG., 12' GAP
⑭	PAVEMENT MARKING ARROWS EPOXY TYPE 3
⑮	PAVEMENT MARKING GROOVED WET REFLECTIVE TAPE 4-INCH, WHITE SKIP, 12½' SEG., 37½GAP

2



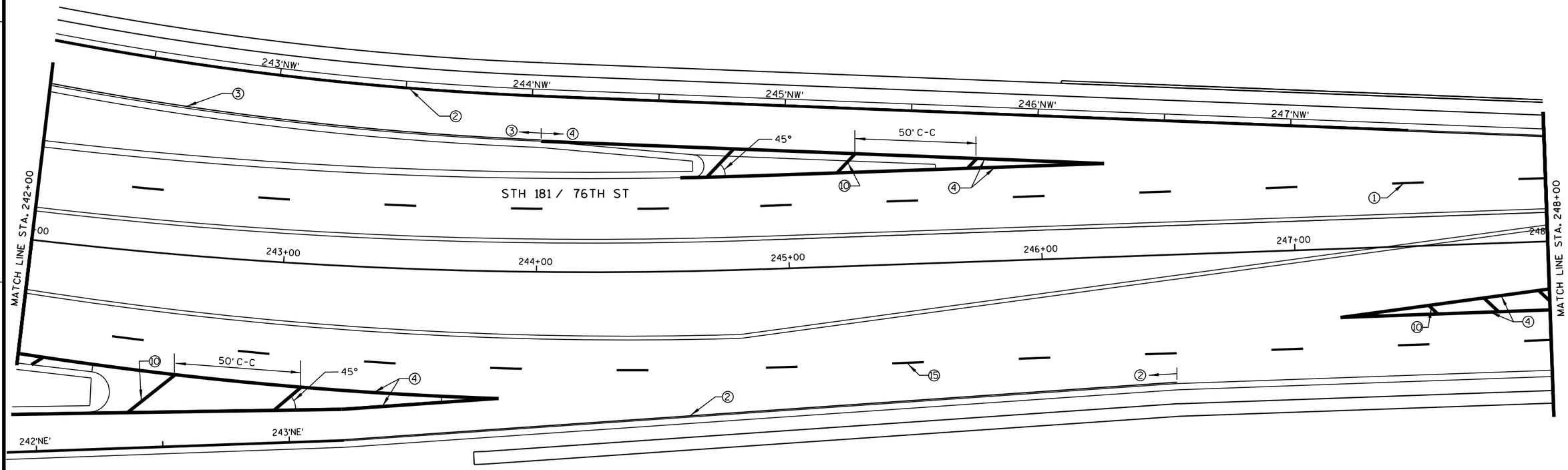
LEGEND

①	PAVEMENT MARKING WET REFLECTIVE TAPE 4-INCH, WHITE SKIP, 12½' SEG., 37½' GAP
②	PAVEMENT MARKING EPOXY 4-INCH, WHITE
③	PAVEMENT MARKING EPOXY 4-INCH, YELLOW
④	PAVEMENT MARKING EPOXY 8-INCH, WHITE
⑤	PAVEMENT MARKING ARROWS EPOXY TYPE 2
⑥	PAVEMENT MARKING WORDS EPOXY
⑦	PAVEMENT MARKING CURB EPOXY, YELLOW
⑧	PAVEMENT MARKING STOP LINE EPOXY 18-INCH
⑨	PAVEMENT MARKING ISLAND NOSE EPOXY, YELLOW
⑩	PAVEMENT MARKING DIAGONAL EPOXY 12-INCH
⑪	PAVEMENT MARKING CROSSWALK EPOXY 6-INCH
⑫	PAVEMENT MARKING EPOXY 4-INCH, WHITE SKIP, 5' SEG., 5' GAP
⑬	PAVEMENT MARKING EPOXY 8-INCH, WHITE SKIP, 3' SEG., 12' GAP
⑭	PAVEMENT MARKING ARROWS EPOXY TYPE 3
⑮	PAVEMENT MARKING GROOVED WET REFLECTIVE TAPE 4-INCH, WHITE SKIP, 12½' SEG., 37½GAP



PROJECT NO: 2140-08-73	HWY: STH 181	COUNTY: MILWAUKEE	PAVEMENT MARKING	SHEET 342	E

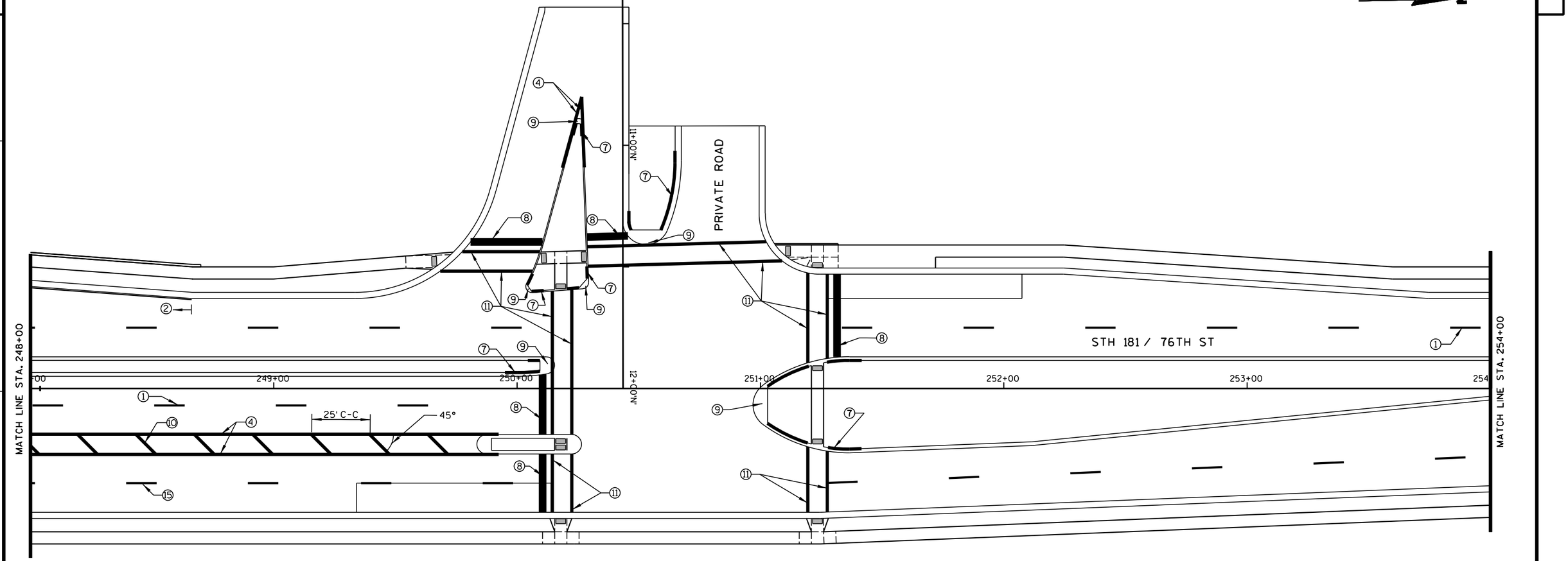
2



LEGEND

①	PAVEMENT MARKING WET REFLECTIVE TAPE 4-INCH, WHITE SKIP, 12½' SEG., 37½' GAP
②	PAVEMENT MARKING EPOXY 4-INCH, WHITE
③	PAVEMENT MARKING EPOXY 4-INCH, YELLOW
④	PAVEMENT MARKING EPOXY 8-INCH, WHITE
⑤	PAVEMENT MARKING ARROWS EPOXY TYPE 2
⑥	PAVEMENT MARKING WORDS EPOXY
⑦	PAVEMENT MARKING CURB EPOXY, YELLOW
⑧	PAVEMENT MARKING STOP LINE EPOXY 18-INCH
⑨	PAVEMENT MARKING ISLAND NOSE EPOXY, YELLOW
⑩	PAVEMENT MARKING DIAGONAL EPOXY 12-INCH
⑪	PAVEMENT MARKING CROSSWALK EPOXY 6-INCH
⑫	PAVEMENT MARKING EPOXY 4-INCH, WHITE SKIP, 5' SEG., 5' GAP
⑬	PAVEMENT MARKING EPOXY 8-INCH, WHITE SKIP, 3' SEG., 12' GAP
⑭	PAVEMENT MARKING ARROWS EPOXY TYPE 3
⑮	PAVEMENT MARKING GROOVED WET REFLECTIVE TAPE 4-INCH, WHITE SKIP, 12½' SEG., 37½GAP

2

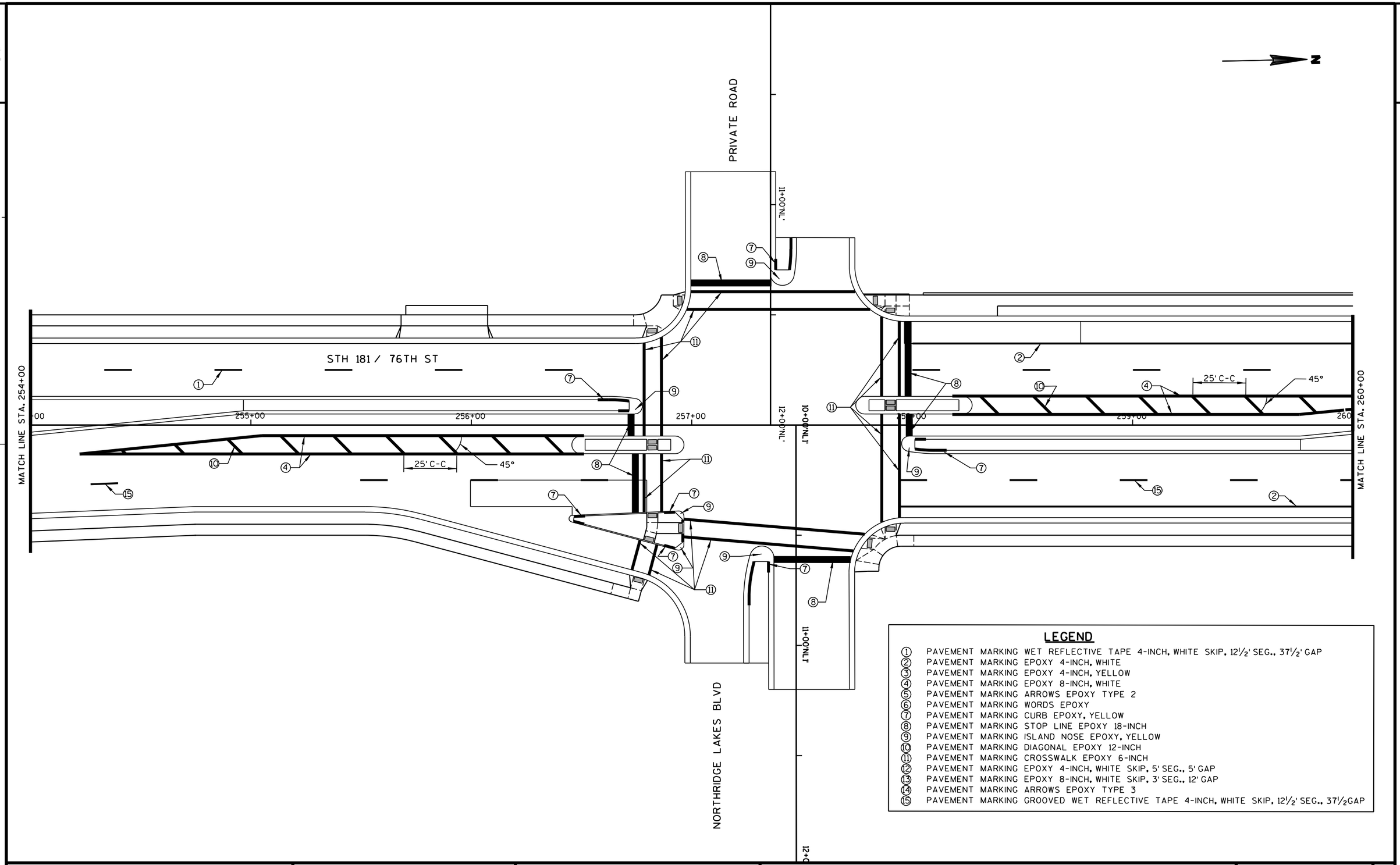


LEGEND

①	PAVEMENT MARKING WET REFLECTIVE TAPE 4-INCH, WHITE SKIP, 12½' SEG., 37½' GAP
②	PAVEMENT MARKING EPOXY 4-INCH, WHITE
③	PAVEMENT MARKING EPOXY 4-INCH, YELLOW
④	PAVEMENT MARKING EPOXY 8-INCH, WHITE
⑤	PAVEMENT MARKING ARROWS EPOXY TYPE 2
⑥	PAVEMENT MARKING WORDS EPOXY
⑦	PAVEMENT MARKING CURB EPOXY, YELLOW
⑧	PAVEMENT MARKING STOP LINE EPOXY 18-INCH
⑨	PAVEMENT MARKING ISLAND NOSE EPOXY, YELLOW
⑩	PAVEMENT MARKING DIAGONAL EPOXY 12-INCH
⑪	PAVEMENT MARKING CROSSWALK EPOXY 6-INCH
⑫	PAVEMENT MARKING EPOXY 4-INCH, WHITE SKIP, 5' SEG., 5' GAP
⑬	PAVEMENT MARKING EPOXY 8-INCH, WHITE SKIP, 3' SEG., 12' GAP
⑭	PAVEMENT MARKING ARROWS EPOXY TYPE 3
⑮	PAVEMENT MARKING GROOVED WET REFLECTIVE TAPE 4-INCH, WHITE SKIP, 12½' SEG., 37½GAP

PROJECT NO: 2140-08-73	HWY: STH 181	COUNTY: MILWAUKEE	PAVEMENT MARKING	SHEET	E

FILE NAME : s:\@sdi\051--100\089\099\micros\design\0873\024920_pm.dgn PLOT DATE : 7/30/2007 PLOT BY : $$...plotuser...$$ PLOT NAME : PLOT SCALE : $$.....plotscale.....$$ WISDOT/CADDS SHEET 42



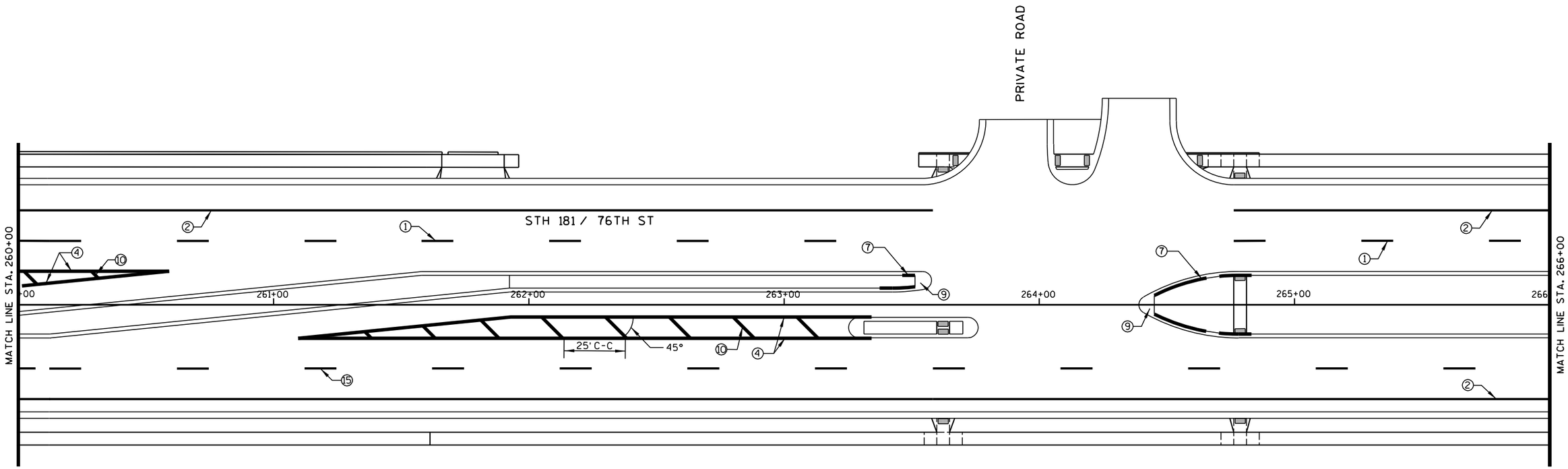
LEGEND

①	PAVEMENT MARKING WET REFLECTIVE TAPE 4-INCH, WHITE SKIP, 12½' SEG., 37½' GAP
②	PAVEMENT MARKING EPOXY 4-INCH, WHITE
③	PAVEMENT MARKING EPOXY 4-INCH, YELLOW
④	PAVEMENT MARKING EPOXY 8-INCH, WHITE
⑤	PAVEMENT MARKING ARROWS EPOXY TYPE 2
⑥	PAVEMENT MARKING WORDS EPOXY
⑦	PAVEMENT MARKING CURB EPOXY, YELLOW
⑧	PAVEMENT MARKING STOP LINE EPOXY 18-INCH
⑨	PAVEMENT MARKING ISLAND NOSE EPOXY, YELLOW
⑩	PAVEMENT MARKING DIAGONAL EPOXY 12-INCH
⑪	PAVEMENT MARKING CROSSWALK EPOXY 6-INCH
⑫	PAVEMENT MARKING EPOXY 4-INCH, WHITE SKIP, 5' SEG., 5' GAP
⑬	PAVEMENT MARKING EPOXY 8-INCH, WHITE SKIP, 3' SEG., 12' GAP
⑭	PAVEMENT MARKING ARROWS EPOXY TYPE 3
⑮	PAVEMENT MARKING GROOVED WET REFLECTIVE TAPE 4-INCH, WHITE SKIP, 12½' SEG., 37½GAP

PROJECT NO: 2140-08-73	HWY: STH 181	COUNTY: MILWAUKEE	PAVEMENT MARKING	SHEET	E

FILE NAME : s:\@sdi\051--100\089\099\micros\design\0873\024921_pm.dgn PLOT DATE : 7/30/2007 PLOT BY : $$...plotuser...$$ PLOT NAME : PLOT SCALE : $$.....plotscale.....$$ WISDOT/CADDS SHEET 42

2

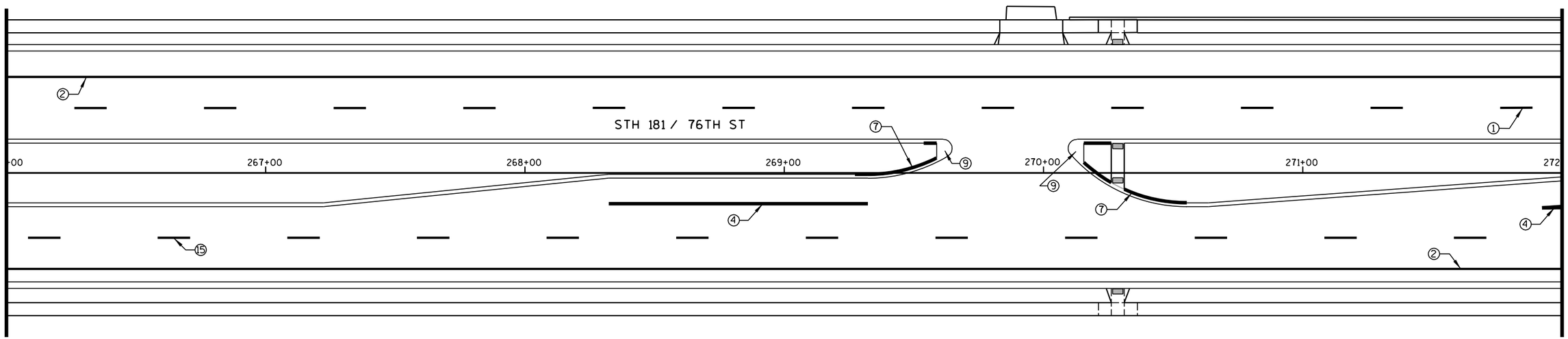


LEGEND

①	PAVEMENT MARKING WET REFLECTIVE TAPE 4-INCH, WHITE SKIP, 12½' SEG., 37½' GAP
②	PAVEMENT MARKING EPOXY 4-INCH, WHITE
③	PAVEMENT MARKING EPOXY 4-INCH, YELLOW
④	PAVEMENT MARKING EPOXY 8-INCH, WHITE
⑤	PAVEMENT MARKING ARROWS EPOXY TYPE 2
⑥	PAVEMENT MARKING WORDS EPOXY
⑦	PAVEMENT MARKING CURB EPOXY, YELLOW
⑧	PAVEMENT MARKING STOP LINE EPOXY 18-INCH
⑨	PAVEMENT MARKING ISLAND NOSE EPOXY, YELLOW
⑩	PAVEMENT MARKING DIAGONAL EPOXY 12-INCH
⑪	PAVEMENT MARKING CROSSWALK EPOXY 6-INCH
⑫	PAVEMENT MARKING EPOXY 4-INCH, WHITE SKIP, 5' SEG., 5' GAP
⑬	PAVEMENT MARKING EPOXY 8-INCH, WHITE SKIP, 3' SEG., 12' GAP
⑭	PAVEMENT MARKING ARROWS EPOXY TYPE 3
⑮	PAVEMENT MARKING GROOVED WET REFLECTIVE TAPE 4-INCH, WHITE SKIP, 12½' SEG., 37½GAP

2

N



LEGEND

①	PAVEMENT MARKING WET REFLECTIVE TAPE 4-INCH, WHITE SKIP, 12½' SEG., 37½' GAP
②	PAVEMENT MARKING EPOXY 4-INCH, WHITE
③	PAVEMENT MARKING EPOXY 4-INCH, YELLOW
④	PAVEMENT MARKING EPOXY 8-INCH, WHITE
⑤	PAVEMENT MARKING ARROWS EPOXY TYPE 2
⑥	PAVEMENT MARKING WORDS EPOXY
⑦	PAVEMENT MARKING CURB EPOXY, YELLOW
⑧	PAVEMENT MARKING STOP LINE EPOXY 18-INCH
⑨	PAVEMENT MARKING ISLAND NOSE EPOXY, YELLOW
⑩	PAVEMENT MARKING DIAGONAL EPOXY 12-INCH
⑪	PAVEMENT MARKING CROSSWALK EPOXY 6-INCH
⑫	PAVEMENT MARKING EPOXY 4-INCH, WHITE SKIP, 5' SEG., 5' GAP
⑬	PAVEMENT MARKING EPOXY 8-INCH, WHITE SKIP, 3' SEG., 12' GAP
⑭	PAVEMENT MARKING ARROWS EPOXY TYPE 3
⑮	PAVEMENT MARKING GROOVED WET REFLECTIVE TAPE 4-INCH, WHITE SKIP, 12½' SEG., 37½GAP

2

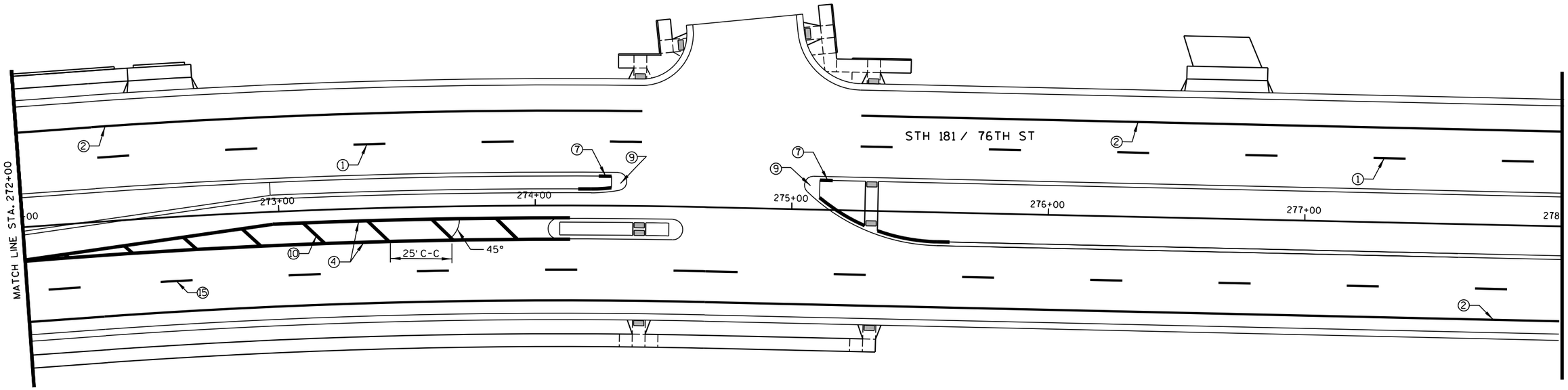
GLENBROOK RD.

N

STH 181 / 76TH ST

MATCH LINE STA. 272+00

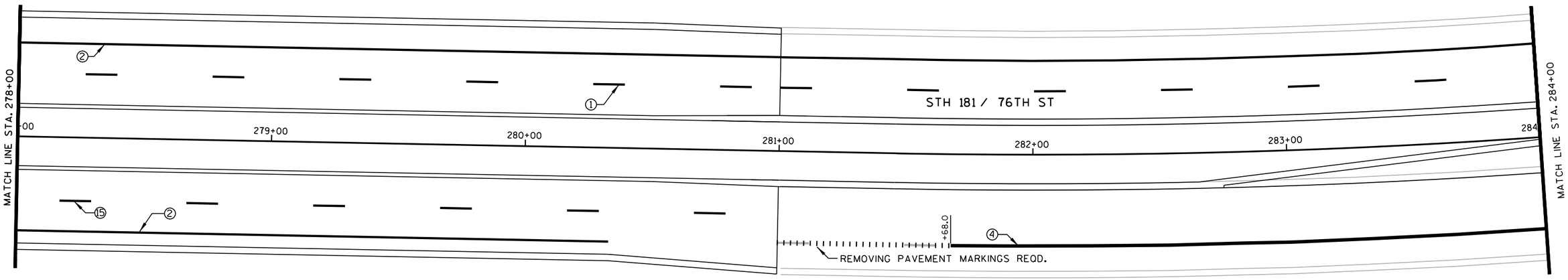
MATCH LINE STA. 278+00



LEGEND

①	PAVEMENT MARKING WET REFLECTIVE TAPE 4-INCH, WHITE SKIP, 12½' SEG., 37½' GAP
②	PAVEMENT MARKING EPOXY 4-INCH, WHITE
③	PAVEMENT MARKING EPOXY 4-INCH, YELLOW
④	PAVEMENT MARKING EPOXY 8-INCH, WHITE
⑤	PAVEMENT MARKING ARROWS EPOXY TYPE 2
⑥	PAVEMENT MARKING WORDS EPOXY
⑦	PAVEMENT MARKING CURB EPOXY, YELLOW
⑧	PAVEMENT MARKING STOP LINE EPOXY 18-INCH
⑨	PAVEMENT MARKING ISLAND NOSE EPOXY, YELLOW
⑩	PAVEMENT MARKING DIAGONAL EPOXY 12-INCH
⑪	PAVEMENT MARKING CROSSWALK EPOXY 6-INCH
⑫	PAVEMENT MARKING EPOXY 4-INCH, WHITE SKIP, 5' SEG., 5' GAP
⑬	PAVEMENT MARKING EPOXY 8-INCH, WHITE SKIP, 3' SEG., 12' GAP
⑭	PAVEMENT MARKING ARROWS EPOXY TYPE 3
⑮	PAVEMENT MARKING GROOVED WET REFLECTIVE TAPE 4-INCH, WHITE SKIP, 12½' SEG., 37½GAP

2



LEGEND

①	PAVEMENT MARKING WET REFLECTIVE TAPE 4-INCH, WHITE SKIP, 12½' SEG., 37½' GAP
②	PAVEMENT MARKING EPOXY 4-INCH, WHITE
③	PAVEMENT MARKING EPOXY 4-INCH, YELLOW
④	PAVEMENT MARKING EPOXY 8-INCH, WHITE
⑤	PAVEMENT MARKING ARROWS EPOXY TYPE 2
⑥	PAVEMENT MARKING WORDS EPOXY
⑦	PAVEMENT MARKING CURB EPOXY, YELLOW
⑧	PAVEMENT MARKING STOP LINE EPOXY 18-INCH
⑨	PAVEMENT MARKING ISLAND NOSE EPOXY, YELLOW
⑩	PAVEMENT MARKING DIAGONAL EPOXY 12-INCH
⑪	PAVEMENT MARKING CROSSWALK EPOXY 6-INCH
⑫	PAVEMENT MARKING EPOXY 4-INCH, WHITE SKIP, 5' SEG., 5' GAP
⑬	PAVEMENT MARKING EPOXY 8-INCH, WHITE SKIP, 3' SEG., 12' GAP
⑭	PAVEMENT MARKING ARROWS EPOXY TYPE 3
⑮	PAVEMENT MARKING GROOVED WET REFLECTIVE TAPE 4-INCH, WHITE SKIP, 12½' SEG., 37½GAP

2

N

W. COUNTY LINE RD.

REMOVING PAVEMENT MARKINGS REQD.

STH 181 / 76TH ST

MATCH LINE STA. 284+00

284+00

285+00

286+00

287+00

+61.9

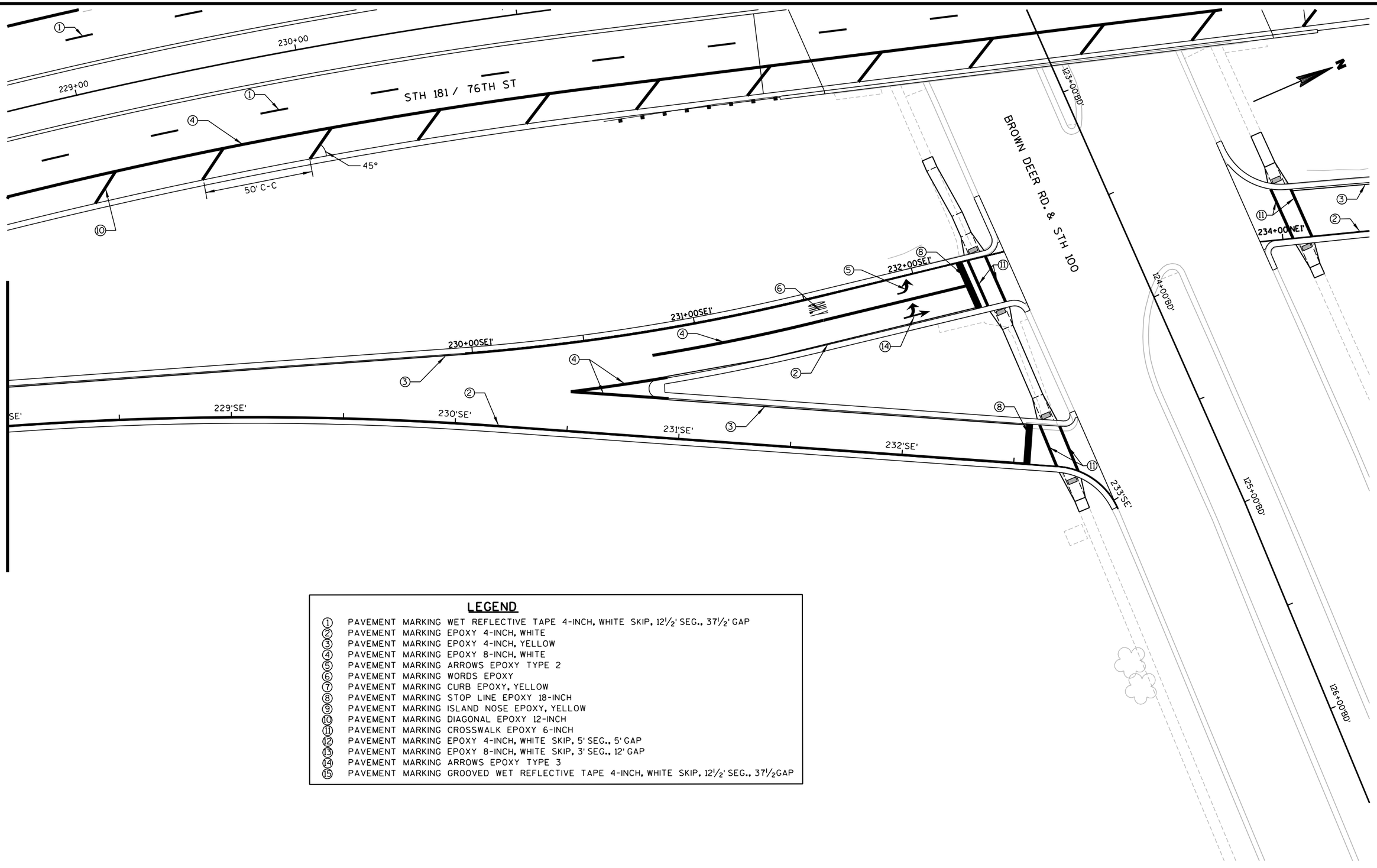
+00

W. COUNTY LINE RD.

LEGEND

1. PAVEMENT MARKING WET REFLECTIVE TAPE 4-INCH, WHITE SKIP, 12½' SEG., 37½' GAP
2. PAVEMENT MARKING EPOXY 4-INCH, WHITE
3. PAVEMENT MARKING EPOXY 4-INCH, YELLOW
4. PAVEMENT MARKING EPOXY 8-INCH, WHITE
5. PAVEMENT MARKING ARROWS EPOXY TYPE 2
6. PAVEMENT MARKING WORDS EPOXY
7. PAVEMENT MARKING CURB EPOXY, YELLOW
8. PAVEMENT MARKING STOP LINE EPOXY 18-INCH
9. PAVEMENT MARKING ISLAND NOSE EPOXY, YELLOW
10. PAVEMENT MARKING DIAGONAL EPOXY 12-INCH
11. PAVEMENT MARKING CROSSWALK EPOXY 6-INCH
12. PAVEMENT MARKING EPOXY 4-INCH, WHITE SKIP, 5' SEG., 5' GAP
13. PAVEMENT MARKING EPOXY 8-INCH, WHITE SKIP, 3' SEG., 12' GAP
14. PAVEMENT MARKING ARROWS EPOXY TYPE 3
15. PAVEMENT MARKING GROOVED WET REFLECTIVE TAPE 4-INCH, WHITE SKIP, 12½' SEG., 37½GAP

PROJECT NO: 2140-08-73	HWY: STH 181	COUNTY: MILWAUKEE	PAVEMENT MARKING	SHEET 350	E

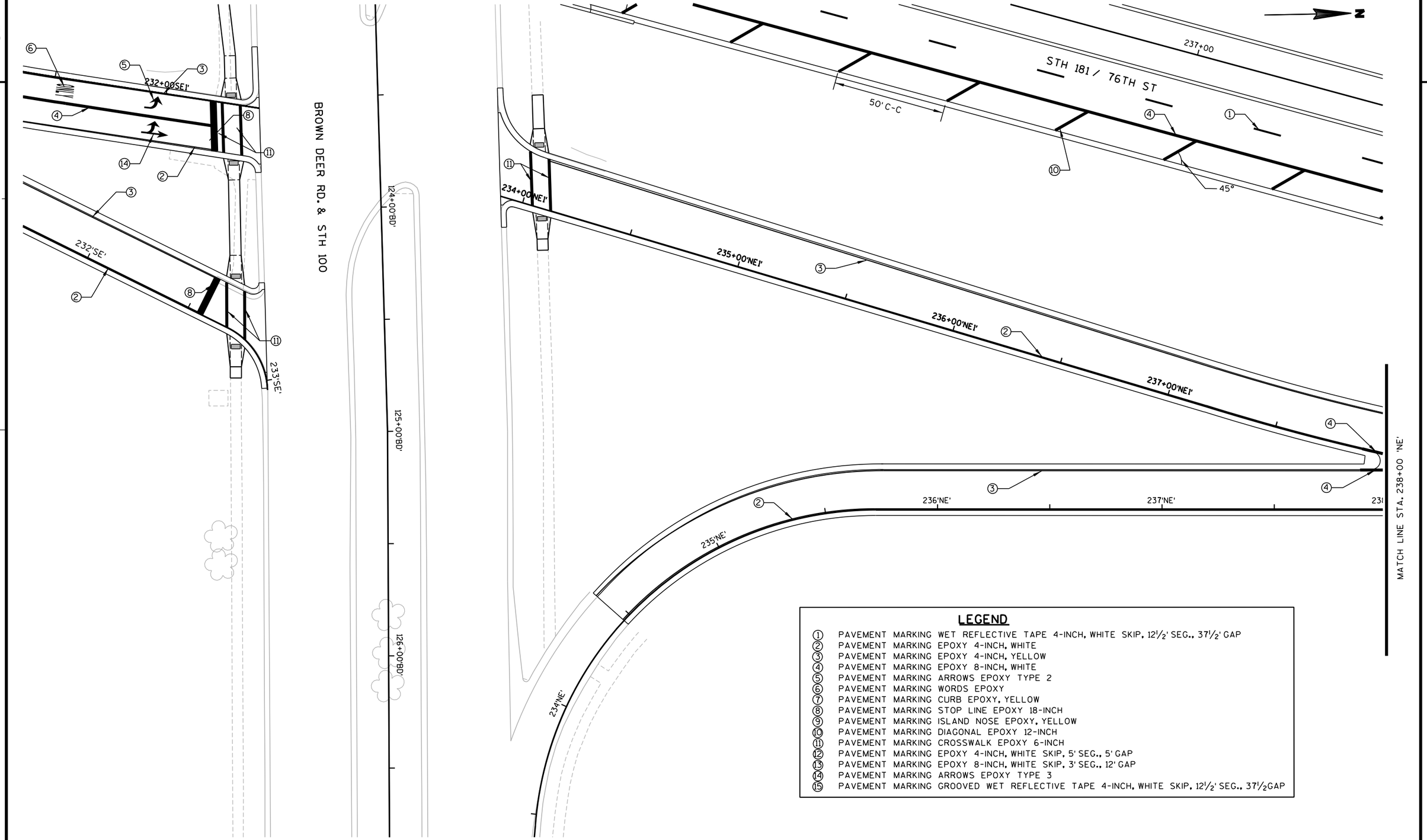


LEGEND

①	PAVEMENT MARKING WET REFLECTIVE TAPE 4-INCH, WHITE SKIP, 12½' SEG., 37½' GAP
②	PAVEMENT MARKING EPOXY 4-INCH, WHITE
③	PAVEMENT MARKING EPOXY 4-INCH, YELLOW
④	PAVEMENT MARKING EPOXY 8-INCH, WHITE
⑤	PAVEMENT MARKING ARROWS EPOXY TYPE 2
⑥	PAVEMENT MARKING WORDS EPOXY
⑦	PAVEMENT MARKING CURB EPOXY, YELLOW
⑧	PAVEMENT MARKING STOP LINE EPOXY 18-INCH
⑨	PAVEMENT MARKING ISLAND NOSE EPOXY, YELLOW
⑩	PAVEMENT MARKING DIAGONAL EPOXY 12-INCH
⑪	PAVEMENT MARKING CROSSWALK EPOXY 6-INCH
⑫	PAVEMENT MARKING EPOXY 4-INCH, WHITE SKIP, 5' SEG., 5' GAP
⑬	PAVEMENT MARKING EPOXY 8-INCH, WHITE SKIP, 3' SEG., 12' GAP
⑭	PAVEMENT MARKING ARROWS EPOXY TYPE 3
⑮	PAVEMENT MARKING GROOVED WET REFLECTIVE TAPE 4-INCH, WHITE SKIP, 12½' SEG., 37½GAP

PROJECT NO: 2140-08-73	HWY: STH 181	COUNTY: MILWAUKEE	PAVEMENT MARKING	SHEET 351	E

2



LEGEND

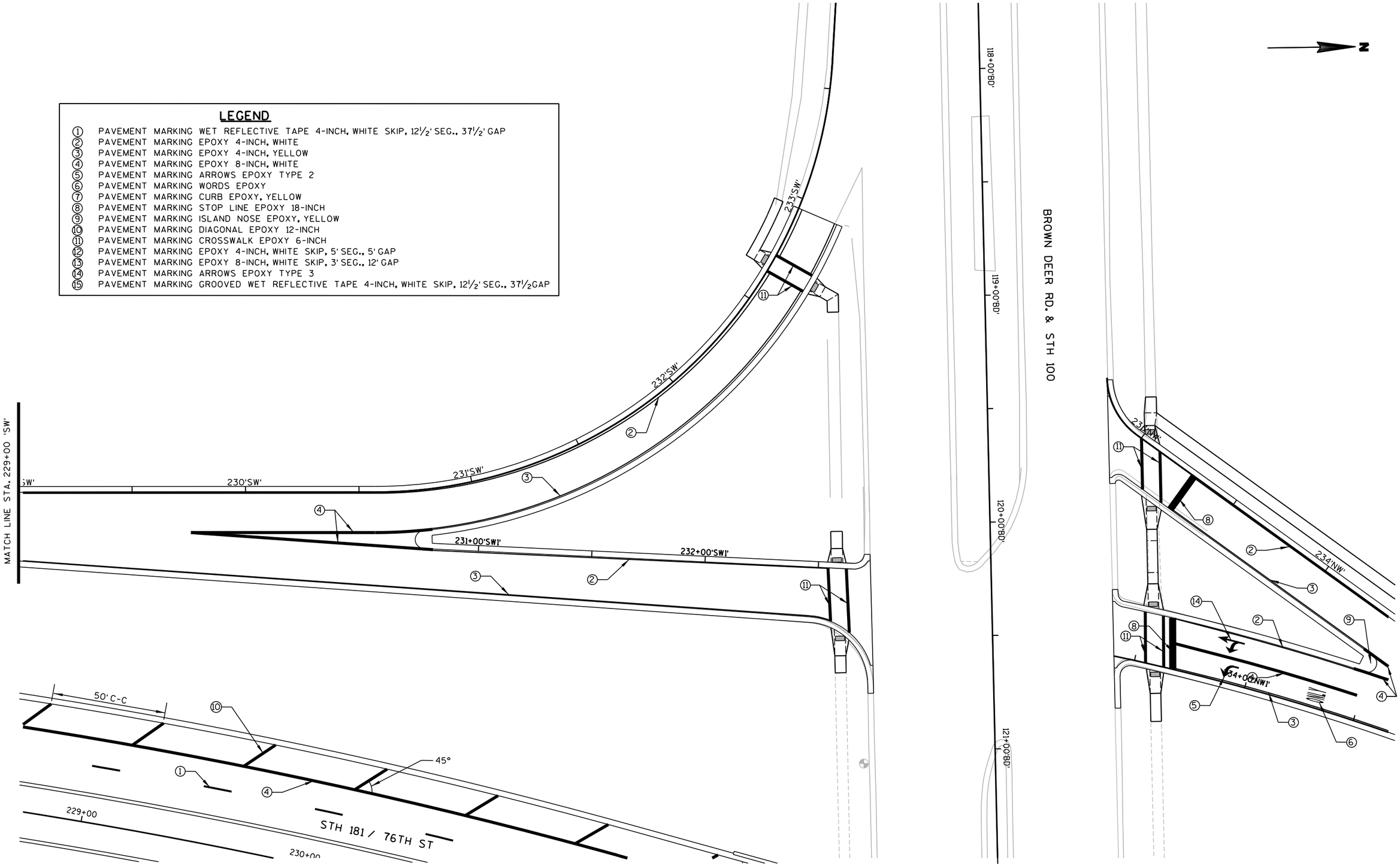
①	PAVEMENT MARKING WET REFLECTIVE TAPE 4-INCH, WHITE SKIP, 12½' SEG., 37½' GAP
②	PAVEMENT MARKING EPOXY 4-INCH, WHITE
③	PAVEMENT MARKING EPOXY 4-INCH, YELLOW
④	PAVEMENT MARKING EPOXY 8-INCH, WHITE
⑤	PAVEMENT MARKING ARROWS EPOXY TYPE 2
⑥	PAVEMENT MARKING WORDS EPOXY
⑦	PAVEMENT MARKING CURB EPOXY, YELLOW
⑧	PAVEMENT MARKING STOP LINE EPOXY 18-INCH
⑨	PAVEMENT MARKING ISLAND NOSE EPOXY, YELLOW
⑩	PAVEMENT MARKING DIAGONAL EPOXY 12-INCH
⑪	PAVEMENT MARKING CROSSWALK EPOXY 6-INCH
⑫	PAVEMENT MARKING EPOXY 4-INCH, WHITE SKIP, 5' SEG., 5' GAP
⑬	PAVEMENT MARKING EPOXY 8-INCH, WHITE SKIP, 3' SEG., 12' GAP
⑭	PAVEMENT MARKING ARROWS EPOXY TYPE 3
⑮	PAVEMENT MARKING GROOVED WET REFLECTIVE TAPE 4-INCH, WHITE SKIP, 12½' SEG., 37½GAP

PROJECT NO: 2140-08-73	HWY: STH 181	COUNTY: MILWAUKEE	PAVEMENT MARKING	SHEET	E

FILE NAME : s:\@sai\051--100\089\099\micros\design\0873\024928_pm.dgn PLOT DATE : 7/30/2007 PLOT BY : $$...plotuser...$$ PLOT NAME : PLOT SCALE : $$.....plotscale.....$$ WISDOT/CADDS SHEET 42

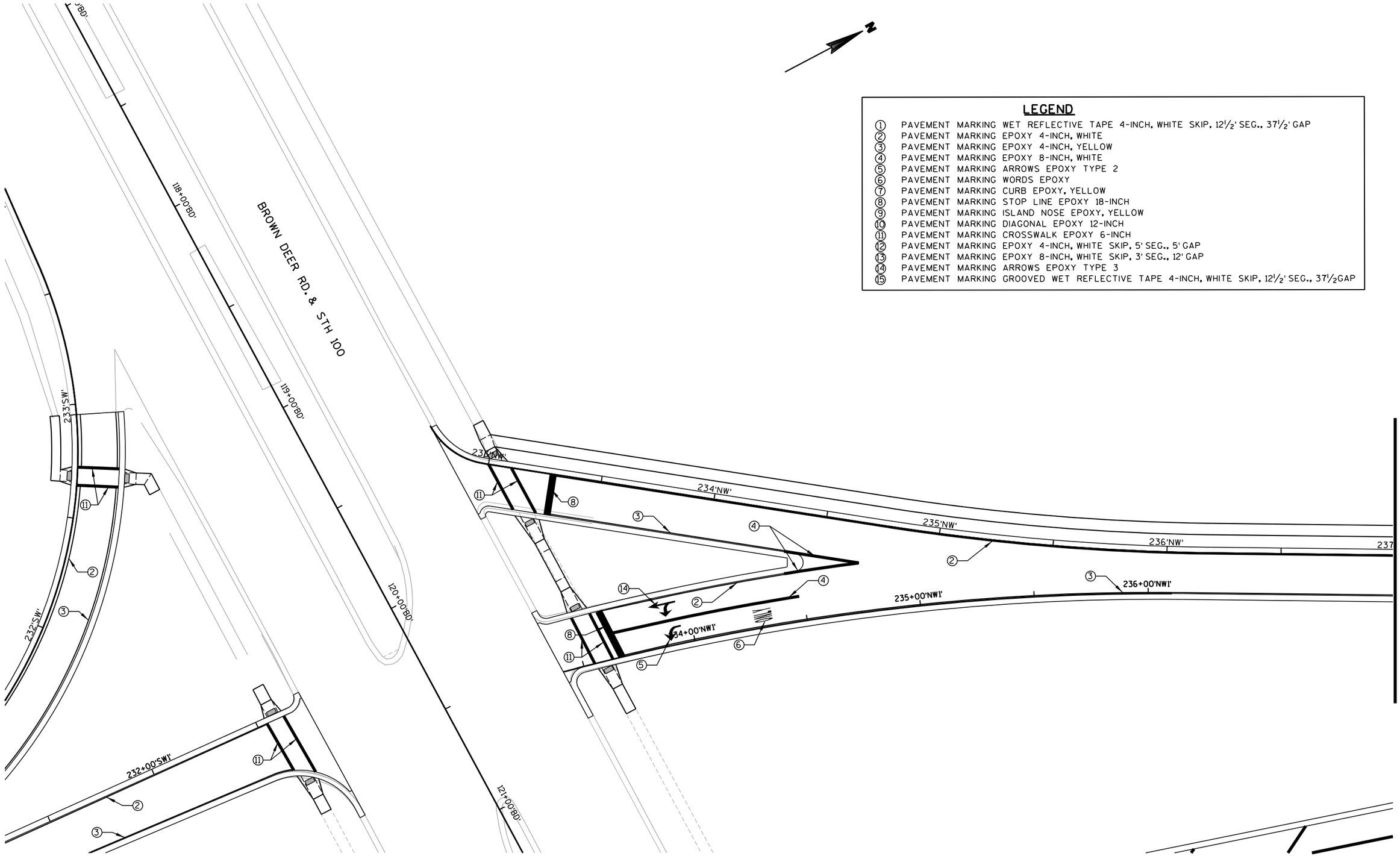
LEGEND

①	PAVEMENT MARKING WET REFLECTIVE TAPE 4-INCH, WHITE SKIP, 12½' SEG., 37½' GAP
②	PAVEMENT MARKING EPOXY 4-INCH, WHITE
③	PAVEMENT MARKING EPOXY 4-INCH, YELLOW
④	PAVEMENT MARKING EPOXY 8-INCH, WHITE
⑤	PAVEMENT MARKING ARROWS EPOXY TYPE 2
⑥	PAVEMENT MARKING WORDS EPOXY
⑦	PAVEMENT MARKING CURB EPOXY, YELLOW
⑧	PAVEMENT MARKING STOP LINE EPOXY 18-INCH
⑨	PAVEMENT MARKING ISLAND NOSE EPOXY, YELLOW
⑩	PAVEMENT MARKING DIAGONAL EPOXY 12-INCH
⑪	PAVEMENT MARKING CROSSWALK EPOXY 6-INCH
⑫	PAVEMENT MARKING EPOXY 4-INCH, WHITE SKIP, 5' SEG., 5' GAP
⑬	PAVEMENT MARKING EPOXY 8-INCH, WHITE SKIP, 3' SEG., 12' GAP
⑭	PAVEMENT MARKING ARROWS EPOXY TYPE 3
⑮	PAVEMENT MARKING GROOVED WET REFLECTIVE TAPE 4-INCH, WHITE SKIP, 12½' SEG., 37½GAP



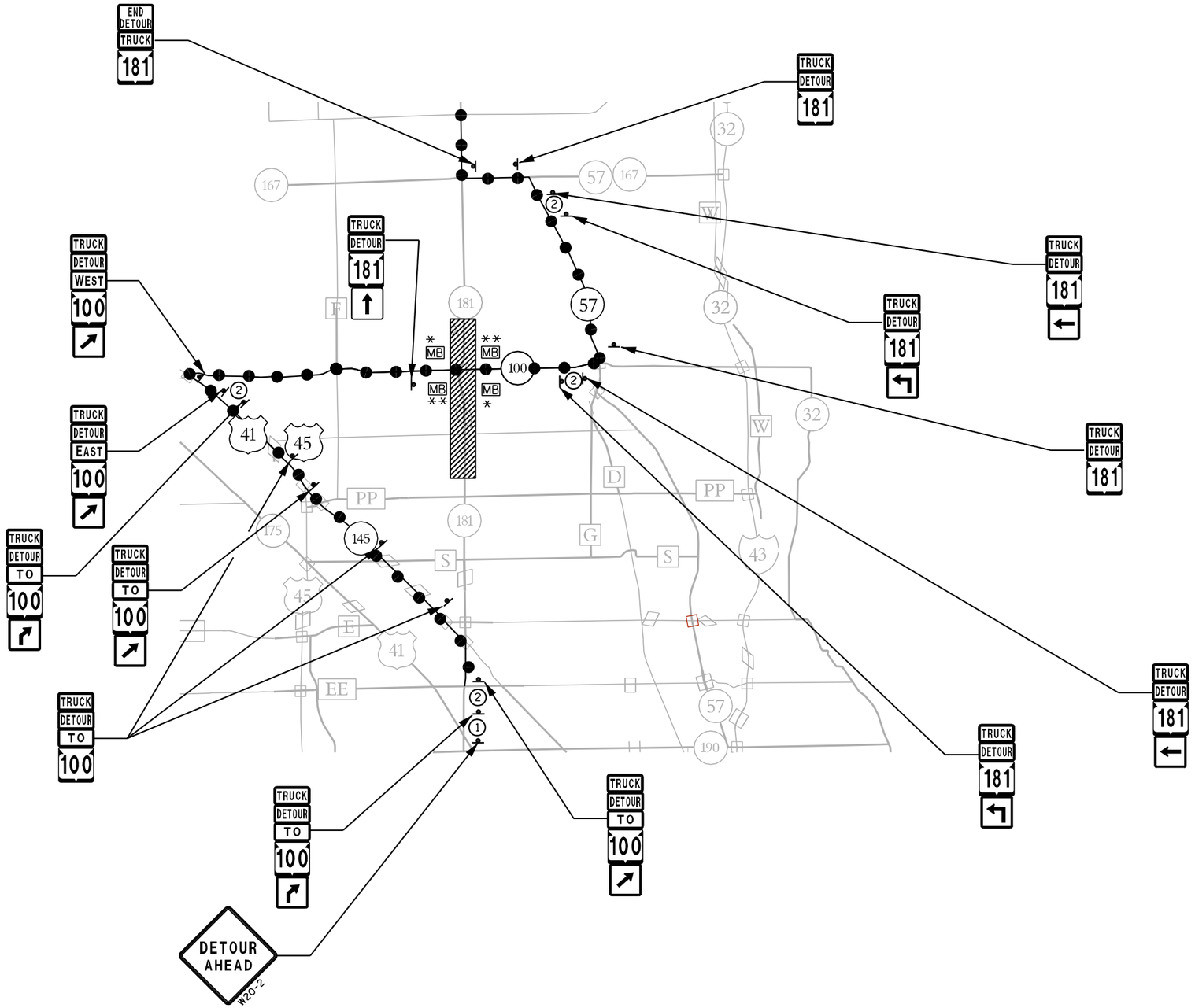
PROJECT NO: 2140-08-73	HWY: STH 181	COUNTY: MILWAUKEE	PAVEMENT MARKING	SHEET 353	E

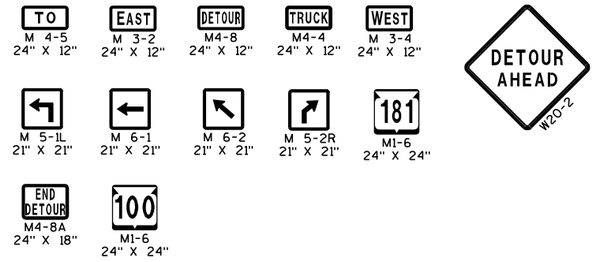
2



LEGEND

① PAVEMENT MARKING WET REFLECTIVE TAPE 4-INCH, WHITE SKIP, 12½' SEG., 37½' GAP
② PAVEMENT MARKING EPOXY 4-INCH, WHITE
③ PAVEMENT MARKING EPOXY 4-INCH, YELLOW
④ PAVEMENT MARKING EPOXY 8-INCH, WHITE
⑤ PAVEMENT MARKING ARROWS EPOXY TYPE 2
⑥ PAVEMENT MARKING WORDS EPOXY
⑦ PAVEMENT MARKING CURB EPOXY, YELLOW
⑧ PAVEMENT MARKING STOP LINE EPOXY 18-INCH
⑨ PAVEMENT MARKING ISLAND NOSE EPOXY, YELLOW
⑩ PAVEMENT MARKING DIAGONAL EPOXY 12-INCH
⑪ PAVEMENT MARKING CROSSWALK EPOXY 6-INCH
⑫ PAVEMENT MARKING EPOXY 4-INCH, WHITE SKIP, 5' SEG., 5' GAP
⑬ PAVEMENT MARKING EPOXY 8-INCH, WHITE SKIP, 3' SEG., 12' GAP
⑭ PAVEMENT MARKING ARROWS EPOXY TYPE 3
⑮ PAVEMENT MARKING GROOVED WET REFLECTIVE TAPE 4-INCH, WHITE SKIP, 12½' SEG., 37½GAP





GENERAL NOTES

THE EXACT NUMBER, LOCATION AND SPACING OF ALL SIGNS SHALL BE ADJUSTED TO FIT FIELD CONDITIONS AS APPROVED BY THE ENGINEER.

IF THERE ARE EXISTING ROUTE MARKER ASSEMBLIES THAT WILL REMAIN IN PLACE, ADJUST THE LOCATION OF THE DETOUR ROUTE SIGNS TO CORRESPOND WITH THE EXISTING ASSEMBLIES

THE SPACING BETWEEN TRAFFIC CONTROL AND DETOUR SIGNS SHOULD BE ADJUSTED TO NOT CONFLICT WITH AND TO PROVIDE A DESIRABLE MINIMUM OF 200 FEET CLEARANCE TO EXISTING SIGNS THAT WILL REMAIN IN PLACE

ANY SIGNS TEMPORARY OR EXISTING, WHICH CONFLICT WITH TRAFFIC CONTROL "IN USE", SHALL BE REMOVED OR COVERED AS NEEDED AND AS APPROVED BY THE ENGINEER

SIGNS THAT WILL BE IN PLACE LESS THAN 7 CONTINUOUS DAYS AND NIGHTS MAY BE MOUNTED ON PORTABLE SUPPORTS

"MO" SIGNS ARE THE SAME AS "M" SIGNS EXCEPT THE BACKGROUND IS ORANGE

ALL SIGNS ARE 48" X 48" UNLESS OTHERWISE NOTED

ALL MO5 AND MO6 ARROW SIGNS AND "WO" SHALL BE THE SAME AS "M" AND "W" SIGNS EXCEPT THAT THE BACKGROUND IS ORANGE

ALL M3 SERIES SIGNS WHICH ARE PART OF ANY DETOUR ROUTE MARKER SIGNING ASSEMBLY OR ATTACHED TO ANY WARNING SIGN SHALL BE BLACK LETTERING ON A WHITE BACKGROUND

NOTES

* = PORTABLE CHANGEABLE MESSAGE BOARD MOUNTED ON STH 181 AND TO READ "NO TRUCK ACCESS TO STH 100 (NB/SB)"

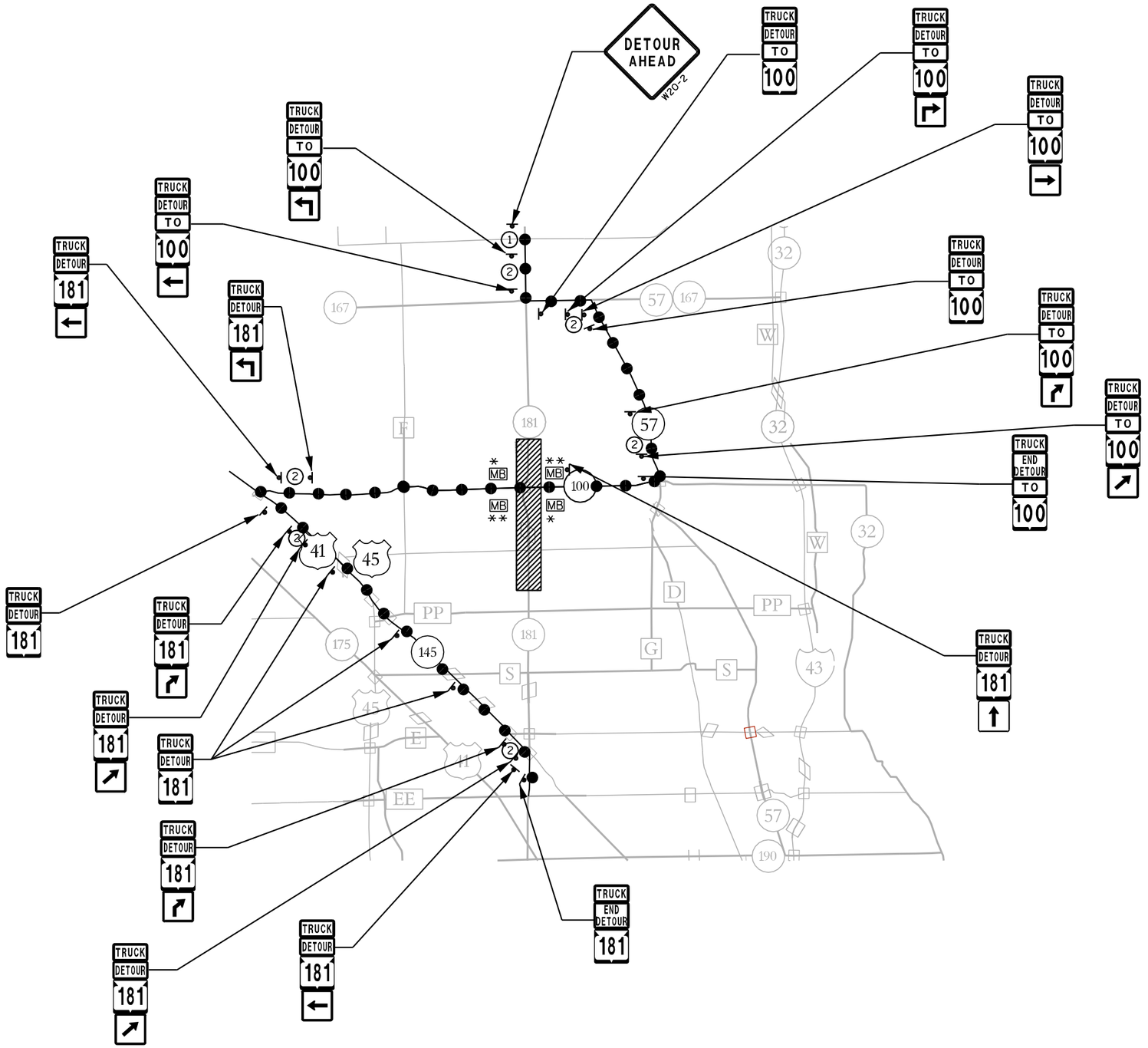
** = PORTABLE MESSAGE BOARD MOUNTED ON STH 100 AND TO READ "NO TRUCKS ALLOWED STH 181 (NB/SB)"

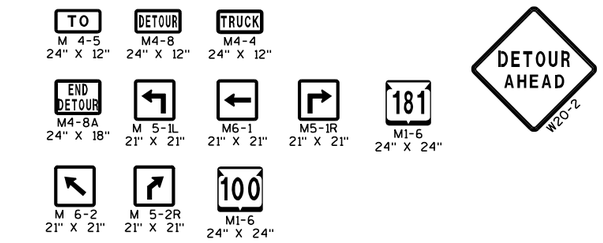
DETOUR ROUTE

WORK ZONE

(1) 1000' (2) 500'

PROJECT NO: 2140-08-73	HWY: STH 181-N. 76TH ST.	COUNTY: MILWAUKEE	TRUCK DETOUR ROUTE - NORTHBOUND	SHEET 355	E





GENERAL NOTES

THE EXACT NUMBER, LOCATION AND SPACING OF ALL SIGNS SHALL BE ADJUSTED TO FIT FIELD CONDITIONS AS APPROVED BY THE ENGINEER.

IF THERE ARE EXISTING ROUTE MARKER ASSEMBLIES THAT WILL REMAIN IN PLACE, ADJUST THE LOCATION OF THE DETOUR ROUTE SIGNS TO CORRESPOND WITH THE EXISTING ASSEMBLIES

THE SPACING BETWEEN TRAFFIC CONTROL AND DETOUR SIGNS SHOULD BE ADJUSTED TO NOT CONFLICT WITH AND TO PROVIDE A DESIRABLE MINIMUM OF 200 FEET CLEARANCE TO EXISTING SIGNS THAT WILL REMAIN IN PLACE

ANY SIGNS TEMPORARY OR EXISTING, WHICH CONFLICT WITH TRAFFIC CONTROL "IN USE", SHALL BE REMOVED OR COVERED AS NEEDED AND AS APPROVED BY THE ENGINEER

SIGNS THAT WILL BE IN PLACE LESS THAN 7 CONTINUOUS DAYS AND NIGHTS MAY BE MOUNTED ON PORTABLE SUPPORTS

"MO" SIGNS ARE THE SAME AS "M" SIGNS EXCEPT THE BACKGROUND IS ORANGE

ALL SIGNS ARE 48" X 48" UNLESS OTHERWISE NOTED

ALL MO5 AND MO6 ARROW SIGNS AND "WO" SHALL BE THE SAME AS "M" AND "W" SIGNS EXCEPT THAT THE BACKGROUND IS ORANGE

ALL M3 SERIES SIGNS WHICH ARE PART OF ANY DETOUR ROUTE MARKER SIGNING ASSEMBLY OR ATTACHED TO ANY WARNING SIGN SHALL BE BLACK LETTERING ON A WHITE BACKGROUND

NOTES

* = PORTABLE CHANGEABLE MESSAGE BOARD MOUNTED ON STH 181 AND TO READ "NO TRUCK ACCESS TO STH 100 (NB/SB)"

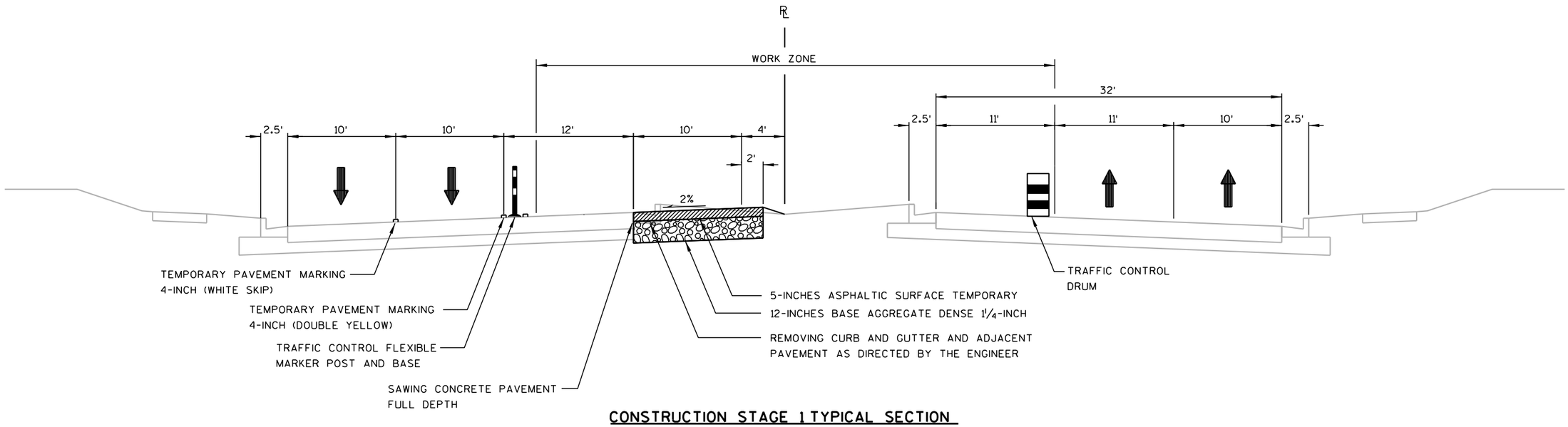
** = PORTABLE CHANGEABLE MESSAGE BOARD MOUNTED ON STH 100 AND TO READ "NO TRUCK ACCESS TO STH 181 (NB/SB)"

DETOUR ROUTE

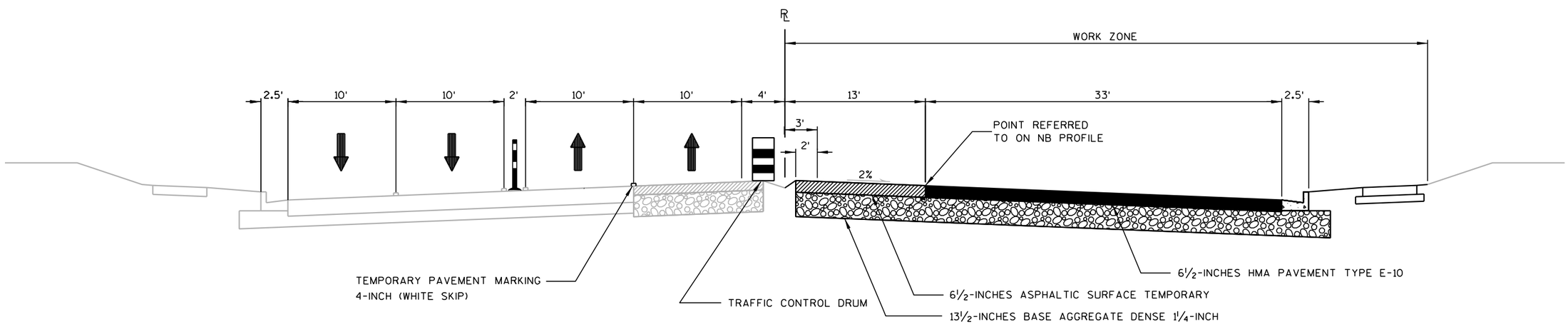
WORK ZONE

(1) 1000' (2) 500'

PROJECT NO: 2140-08-73	HWY: STH 181-N. 76TH ST.	COUNTY: MILWAUKEE	TRUCK DETOUR ROUTE - SOUTHBOUND	SHEET 356	E

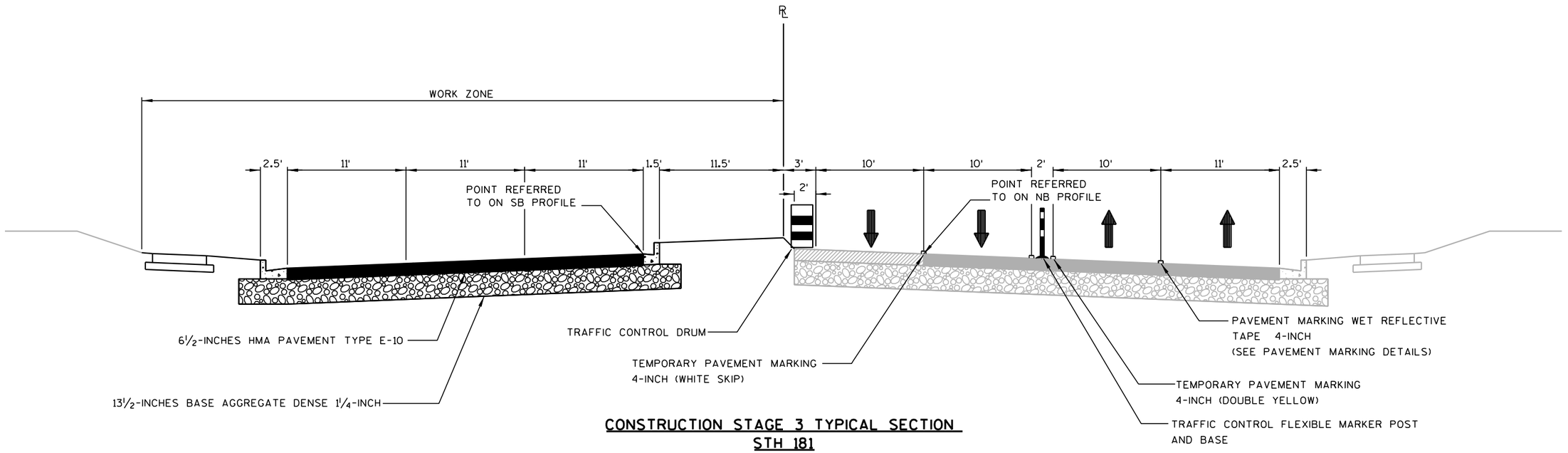


CONSTRUCTION STAGE 1 TYPICAL SECTION
STH 181
(W. CLINTON AVE. TO W. TOWER AVE.)



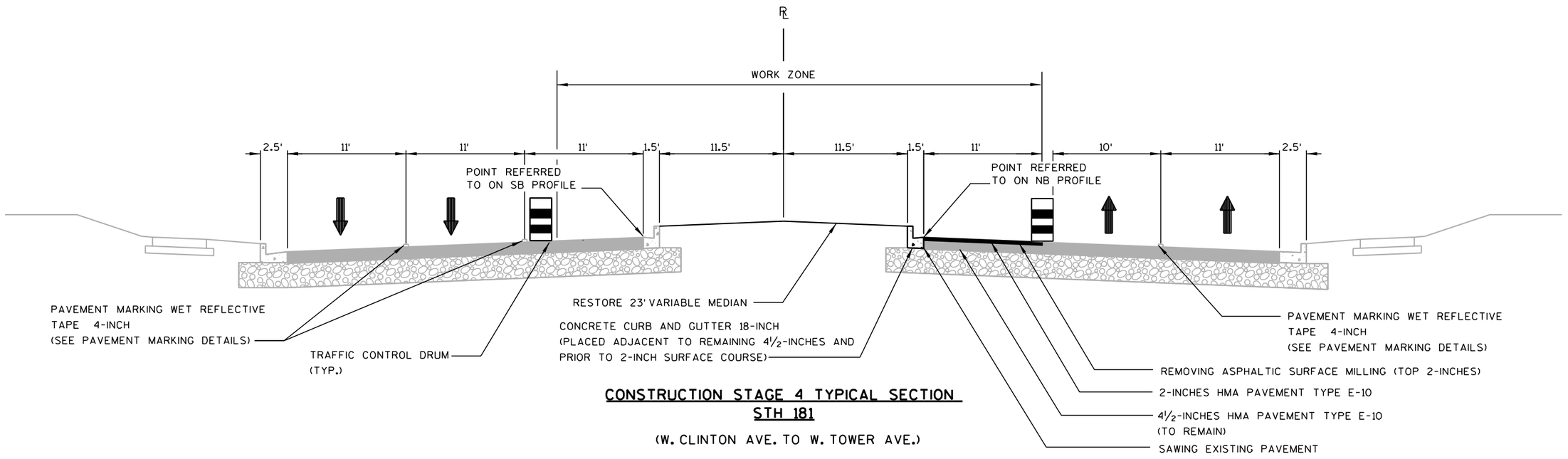
CONSTRUCTION STAGE 2 TYPICAL SECTION
STH 181
(W. CLINTON AVE. TO W. TOWER AVE.)

PROJECT NO: 2140-08-73	HWY: STH 181	COUNTY: MILWAUKEE	CONSTRUCTION STAGING TYPICALS	SHEET 357	E



CONSTRUCTION STAGE 3 TYPICAL SECTION
STH 181

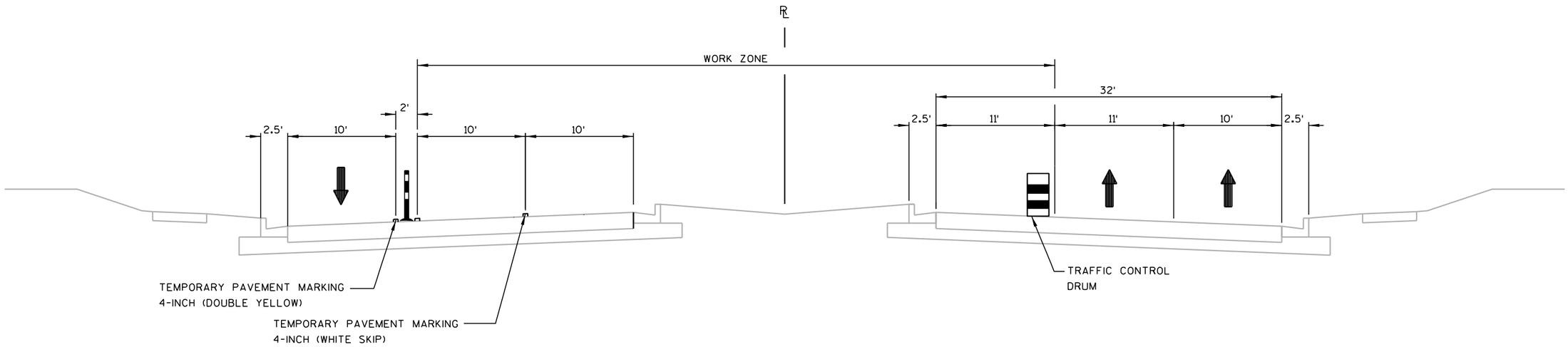
(W. CLINTON AVE. TO W. TOWER AVE.)



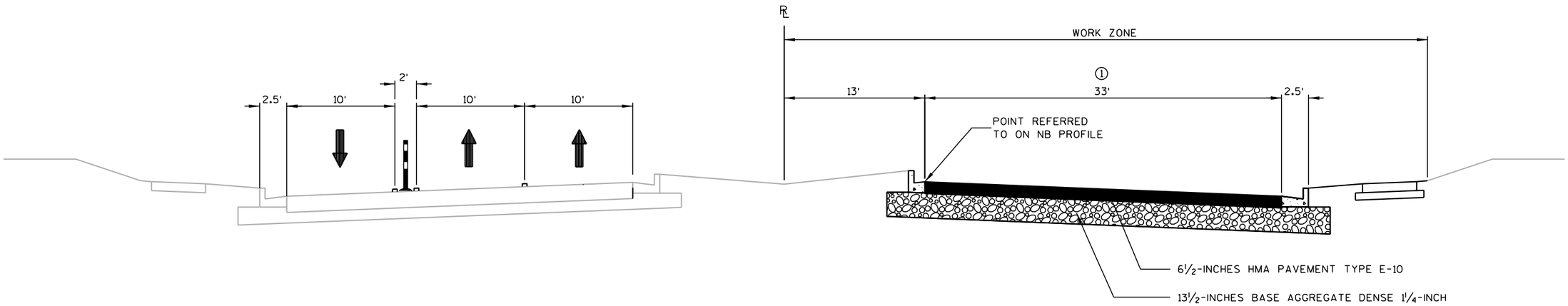
CONSTRUCTION STAGE 4 TYPICAL SECTION
STH 181

(W. CLINTON AVE. TO W. TOWER AVE.)

PROJECT NO: 2140-08-73	HWY: STH 181	COUNTY: MILWAUKEE	CONSTRUCTION STAGING TYPICALS	SHEET 358	E

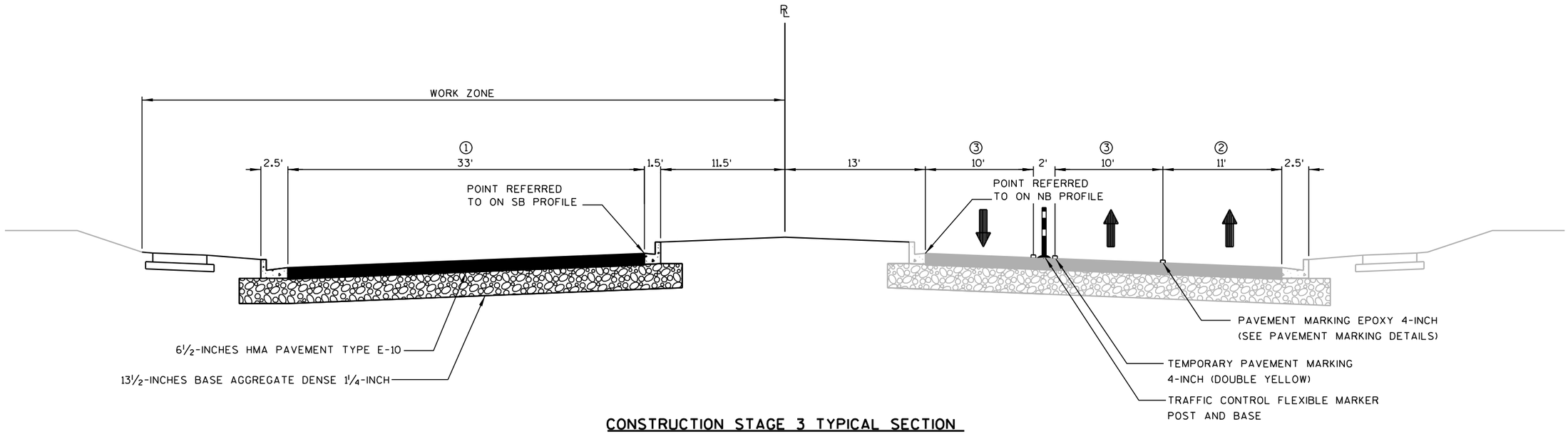


CONSTRUCTION STAGE 1 TYPICAL SECTION
STH 181
(W. TOWER AVE. TO W. BROWN DEER RD.)



CONSTRUCTION STAGE 2 TYPICAL SECTION
STH 181
(W. TOWER AVE. TO W. BROWN DEER RD.)

PROJECT NO: 2140-08-73	HWY: STH 181	COUNTY: MILWAUKEE	CONSTRUCTION STAGING TYPICALS	SHEET 359	E



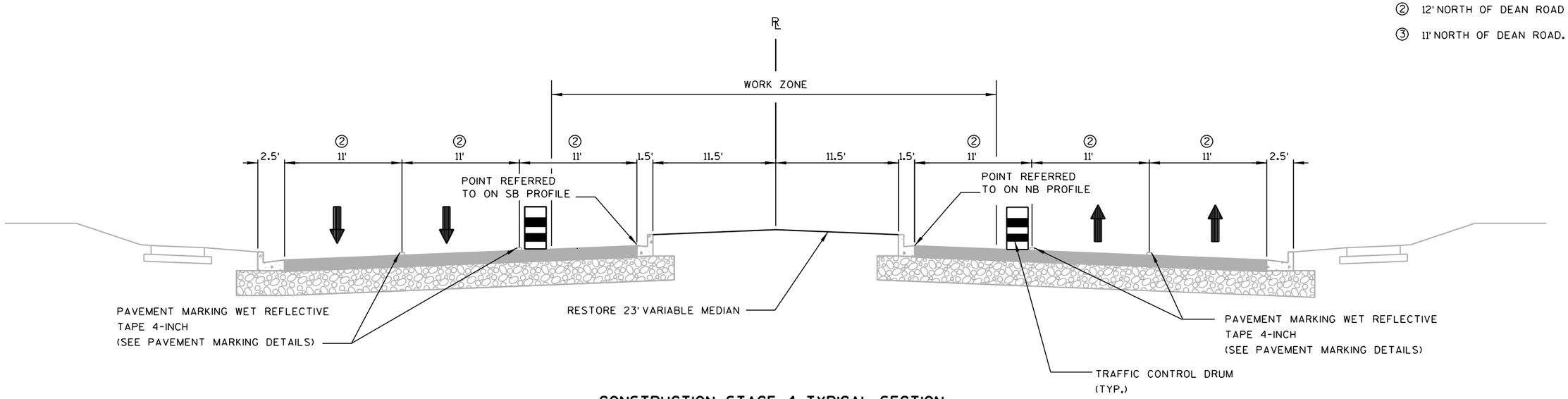
CONSTRUCTION STAGE 3 TYPICAL SECTION
STH 181

(W. TOWER AVE. TO W. BROWN DEER RD.)

① 36' NORTH OF DEAN ROAD

② 12' NORTH OF DEAN ROAD

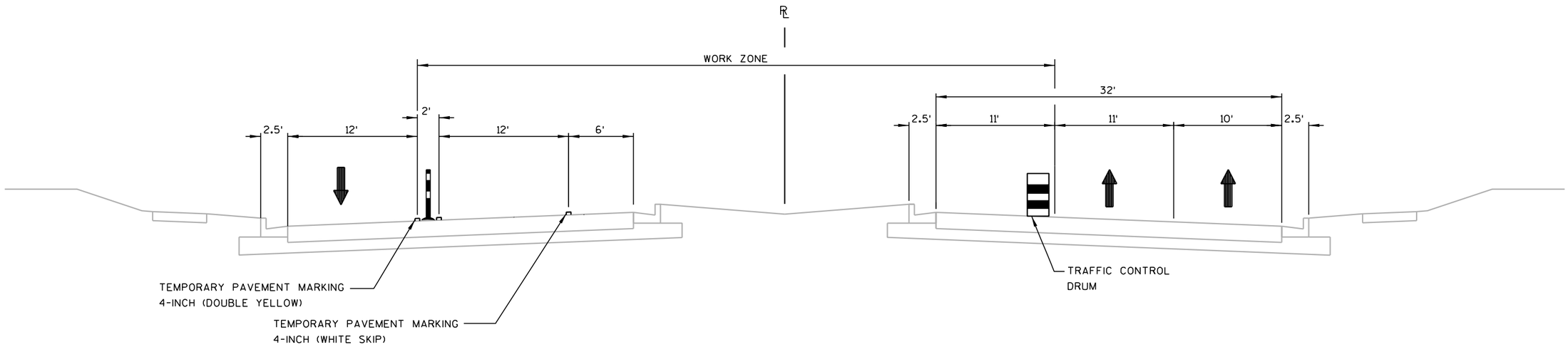
③ 11' NORTH OF DEAN ROAD.



CONSTRUCTION STAGE 4 TYPICAL SECTION
STH 181

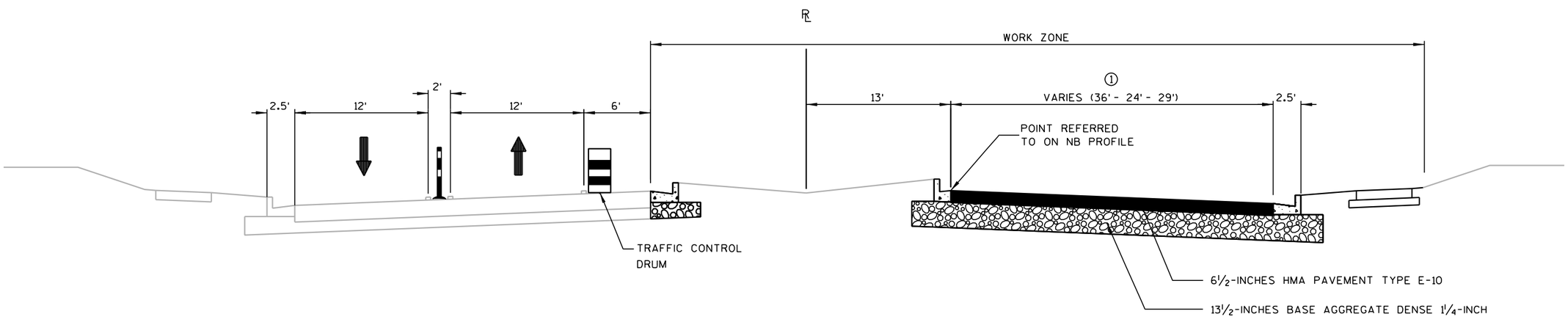
(W. TOWER AVE. TO W. BROWN DEER RD.)

PROJECT NO:2140-08-73	HWY: STH 181	COUNTY: MILWAUKEE	CONSTRUCTION STAGING TYPICALS	SHEET 360	E



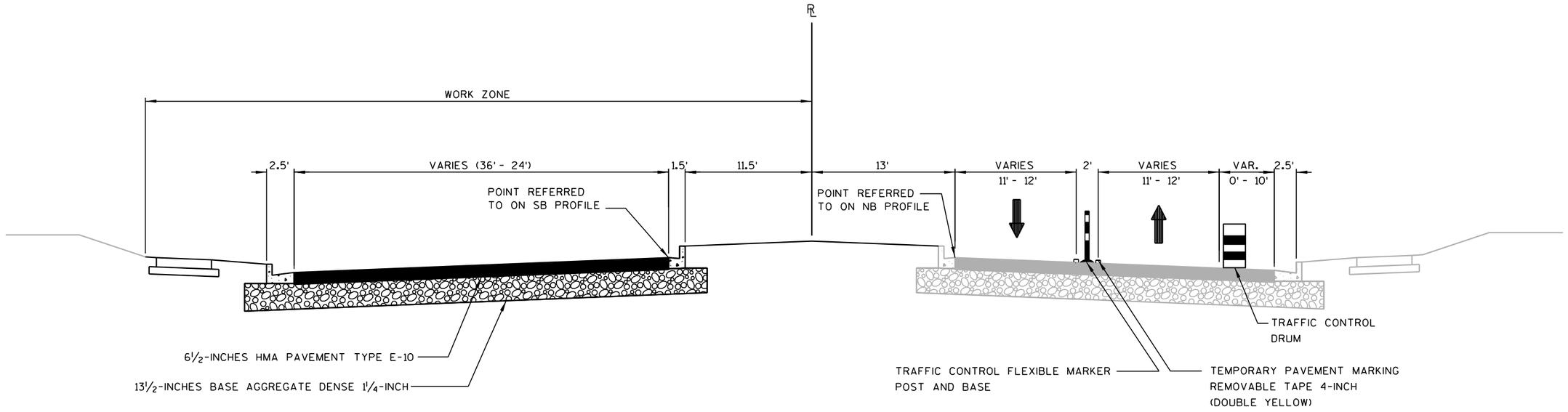
CONSTRUCTION STAGE 1 TYPICAL SECTION
STH 181
(W. BROWN DEER RD. TO W. COUNTY LINE RD.)

① 36' BETWEEN BROWN DEER RD. AND NORTHRIDGE DR
24' BETWEEN NORTHRIDGE DR. AND NORTHRIDGE LAKES BLVD.
29' NORTH OF NORTHRIDGE LAKES BLVD.

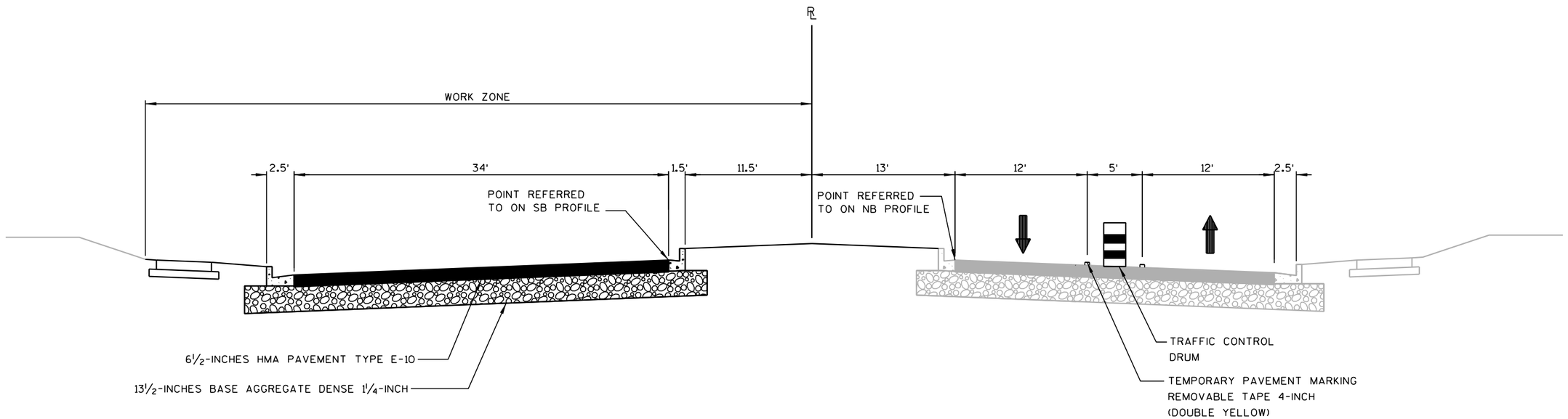


CONSTRUCTION STAGE 2 TYPICAL SECTION
STH 181
(W. BROWN DEER RD. TO W. COUNTY LINE RD.)

PROJECT NO: 2140-08-73	HWY: STH 181	COUNTY: MILWAUKEE	CONSTRUCTION STAGING TYPICALS	SHEET 361	E

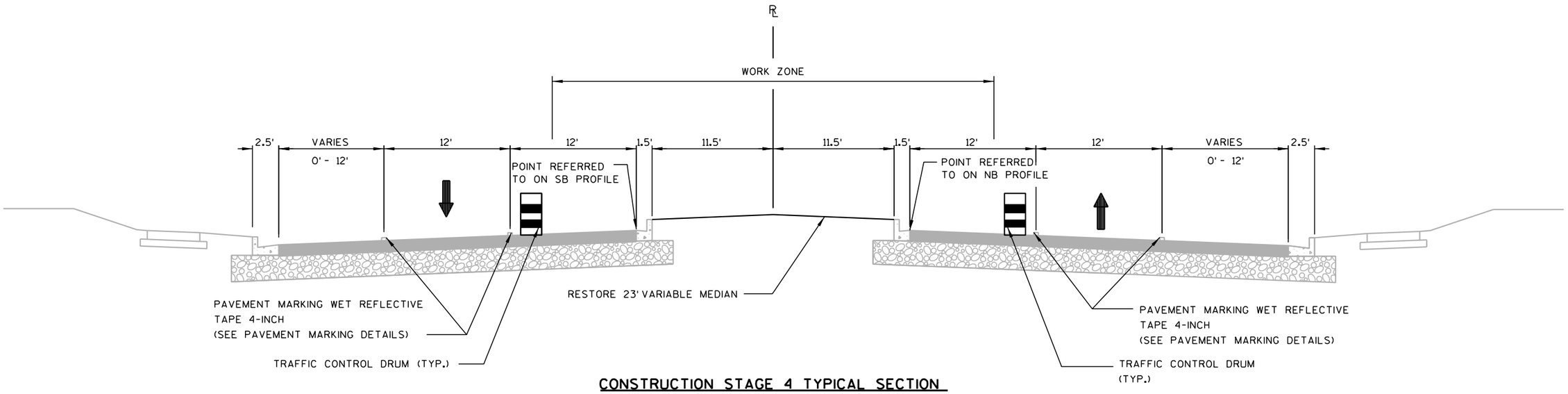


CONSTRUCTION STAGE 3 TYPICAL SECTION
STH 181
(W. BROWN DEER RD. TO NORTHRIDGE LAKES BLVD.)

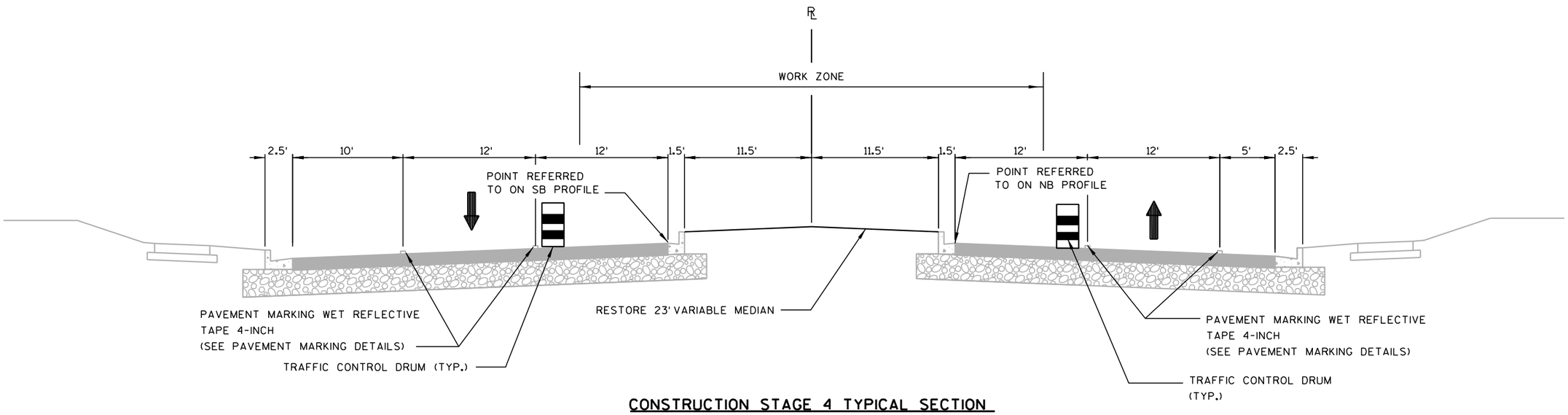


CONSTRUCTION STAGE 3 TYPICAL SECTION
STH 181
(NORTHRIDGE LAKES BLVD. TO W. COUNTY LINE RD.)

PROJECT NO:2140-08-73	HWY: STH 181	COUNTY: MILWAUKEE	CONSTRUCTION STAGING TYPICALS	SHEET 362	E



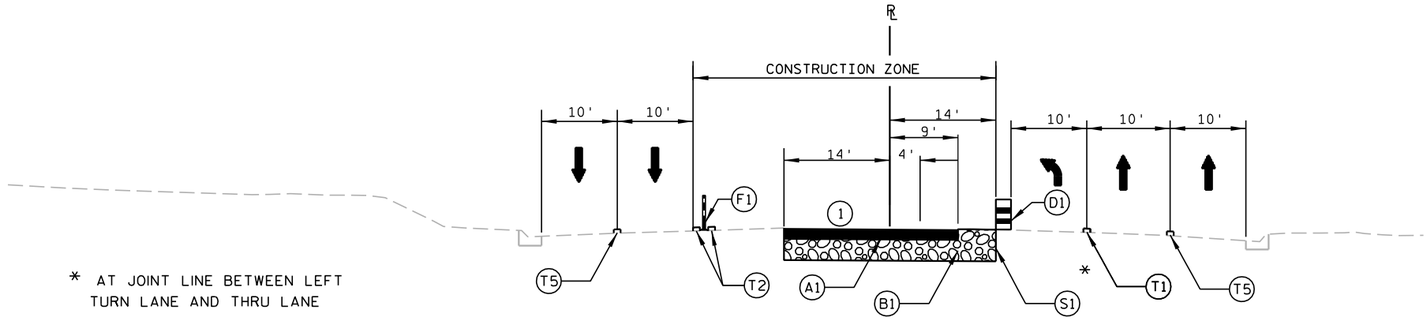
CONSTRUCTION STAGE 4 TYPICAL SECTION
STH 181
(W. BROWN DEER RD. TO NORTHRIDGE LAKES BLVD.)



CONSTRUCTION STAGE 4 TYPICAL SECTION
STH 181
(NORTHRIDGE LAKES BLVD. TO W. COUNTY LINE RD.)

PROJECT NO: 2140-08-73	HWY: STH 181	COUNTY: MILWAUKEE	CONSTRUCTION STAGING TYPICALS	SHEET	E

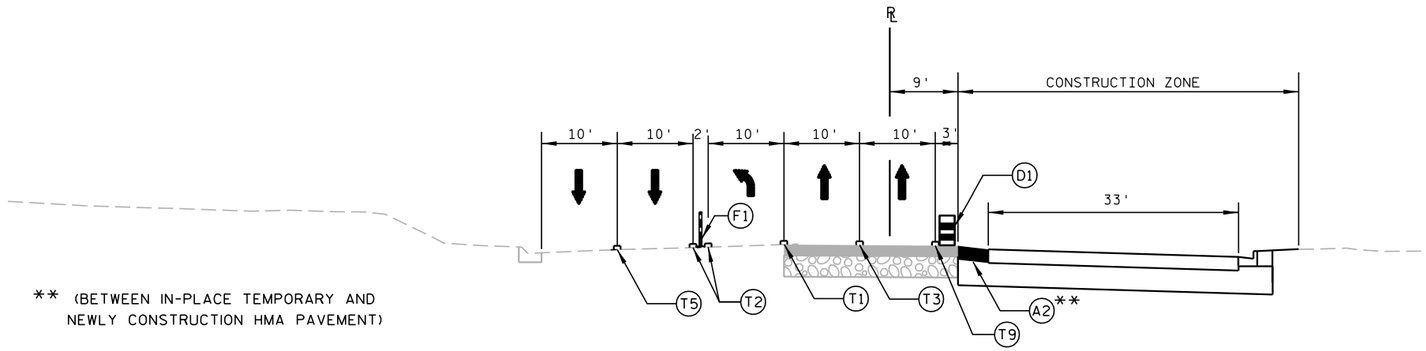
FILE NAME : s:\@sai\051--100\089\099\micros\design\0873\026001_a_g.dgn PLOT DATE : 7/30/2007 PLOT BY : $$...plotuser...$$ PLOT NAME : PLOT SCALE : $$.....plotscale.....$$
WISDOT/CADDS SHEET 42



* AT JOINT LINE BETWEEN LEFT TURN LANE AND THRU LANE

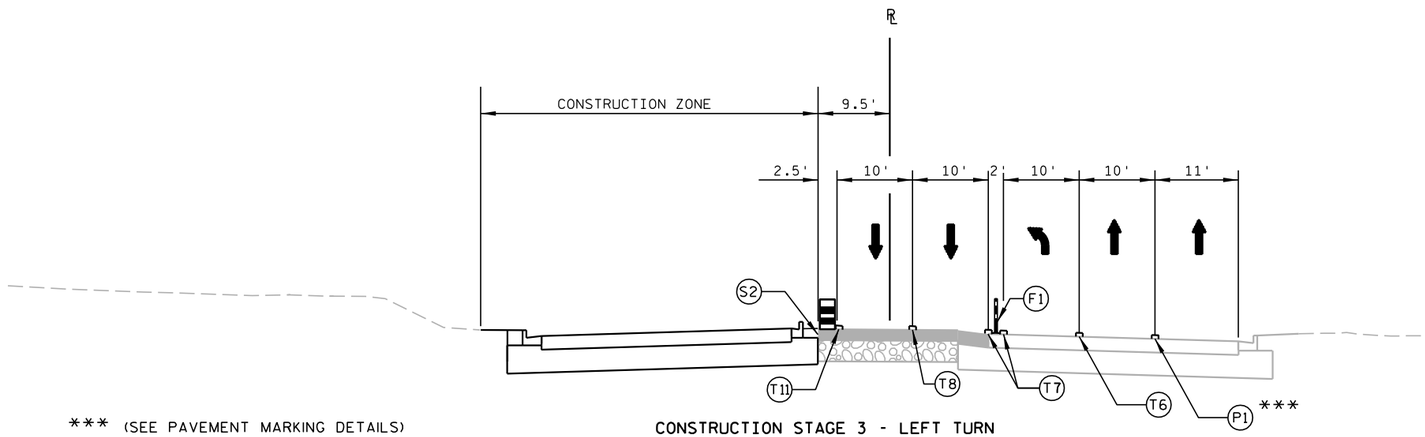
(1) MATCH CROSS-SLOPE OF THE EXISTING ADJACENT PAVEMENT

CONSTRUCTION STAGE 1 - LEFT TURN
NORTHBOUND AT CALUMET, LOLITA, BRADLEY AND TOWER



** (BETWEEN IN-PLACE TEMPORARY AND NEWLY CONSTRUCTION HMA PAVEMENT)

CONSTRUCTION STAGE 2 - LEFT TURN
NORTHBOUND AT CALUMET, LOLITA, BRADLEY AND TOWER



*** (SEE PAVEMENT MARKING DETAILS)

CONSTRUCTION STAGE 3 - LEFT TURN
NORTHBOUND AT CALUMET, LOLITA, BRADLEY AND TOWER

(A1) 5" ASPHALTIC SURFACE TEMPORARY

(A2) 6½" ASPHALTIC SURFACE TEMPORARY

(B1) 12" BASE AGGREGATE DENSE 1 1/4-INCH

(D1) TRAFFIC CONTROL DRUM

(F1) FLEXIBLE TUBULAR MARKER POSTS AND BASES

(P1) PAVEMENT MARKING EPOXY 4-INCH (DASHED WHITE)

(S1) SAWING CONCRETE PAVEMENT FULL DEPTH (REQ'D)

(S2) SAWING EXISTING PAVEMENT (REQ'D)

(T1) TEMPORARY PAVEMENT MARKING 8-INCH (CHANNELIZING)

(T2) TEMPORARY PAVEMENT MARKING 4-INCH (DOUBLE YELLOW)

(T3) TEMPORARY PAVEMENT MARKING 4-INCH (DASHED WHITE)

(T5) EXISTING PAVEMENT MARKING (TO REMAIN)

(T6) TEMPORARY PAVEMENT MARKING REMOVABLE TAPE 4-INCH (DOUBLE YELLOW)

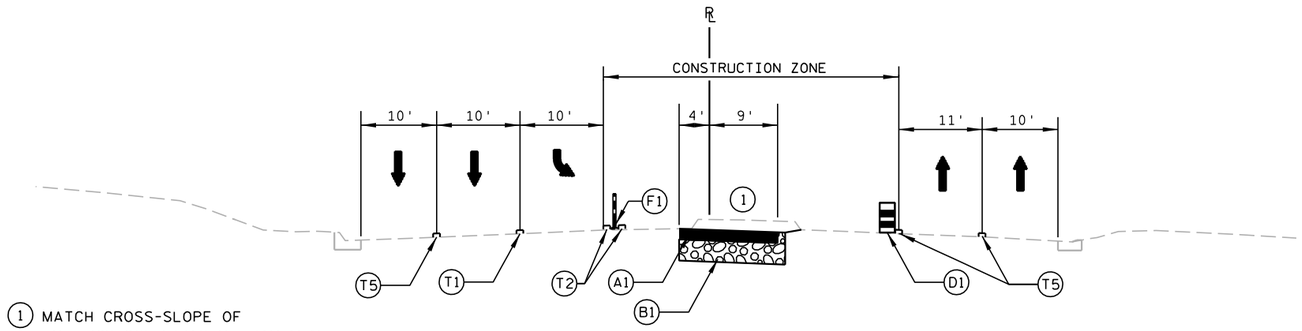
(T7) TEMPORARY PAVEMENT MARKING REMOVABLE TAPE 8-INCH (CHANNELIZING)

(T8) TEMPORARY PAVEMENT MARKING REMOVABLE TAPE 4-INCH (DASHED WHITE)

(T9) TEMPORARY PAVEMENT MARKING 4-INCH (WHITE)

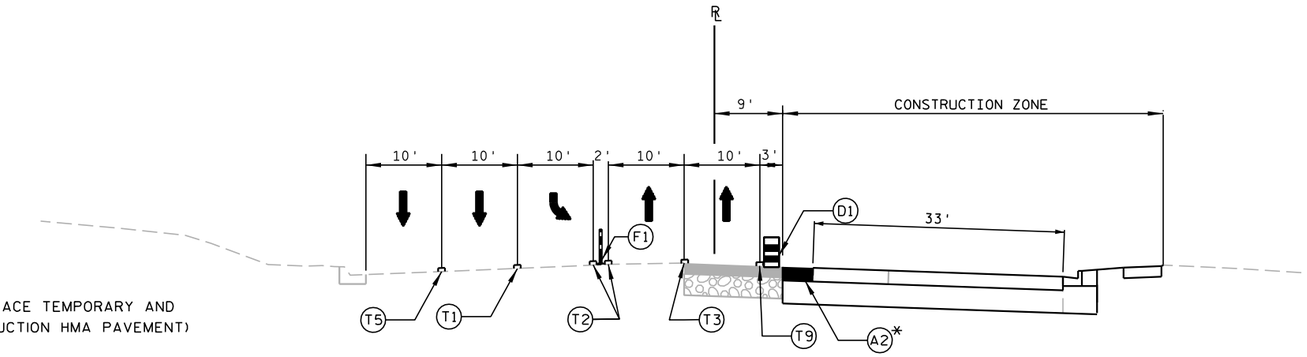
(T11) TEMPORARY PAVEMENT MARKING REMOVABLE TAPE 4-INCH (WHITE)

PROJECT NO:2140-08-73	HWY: STH 181	COUNTY: MILWAUKEE	STAGING TYPICAL SECTIONS	SHEET 364	E



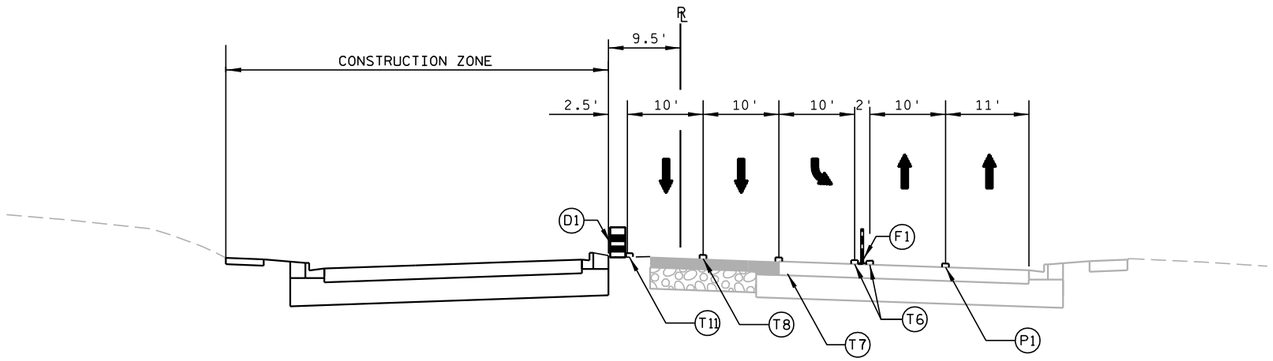
(1) MATCH CROSS-SLOPE OF THE EXISTING ADJACENT PAVEMENT

CONSTRUCTION STAGE 1 - LEFT TURN
SOUTHBOUND AT CALUMET, LOLITA AND BRADLEY



* (BETWEEN IN-PLACE TEMPORARY AND NEWLY CONSTRUCTION HMA PAVEMENT)

CONSTRUCTION STAGE 2 - LEFT TURN
SOUTHBOUND AT CALUMET, LOLITA AND BRADLEY

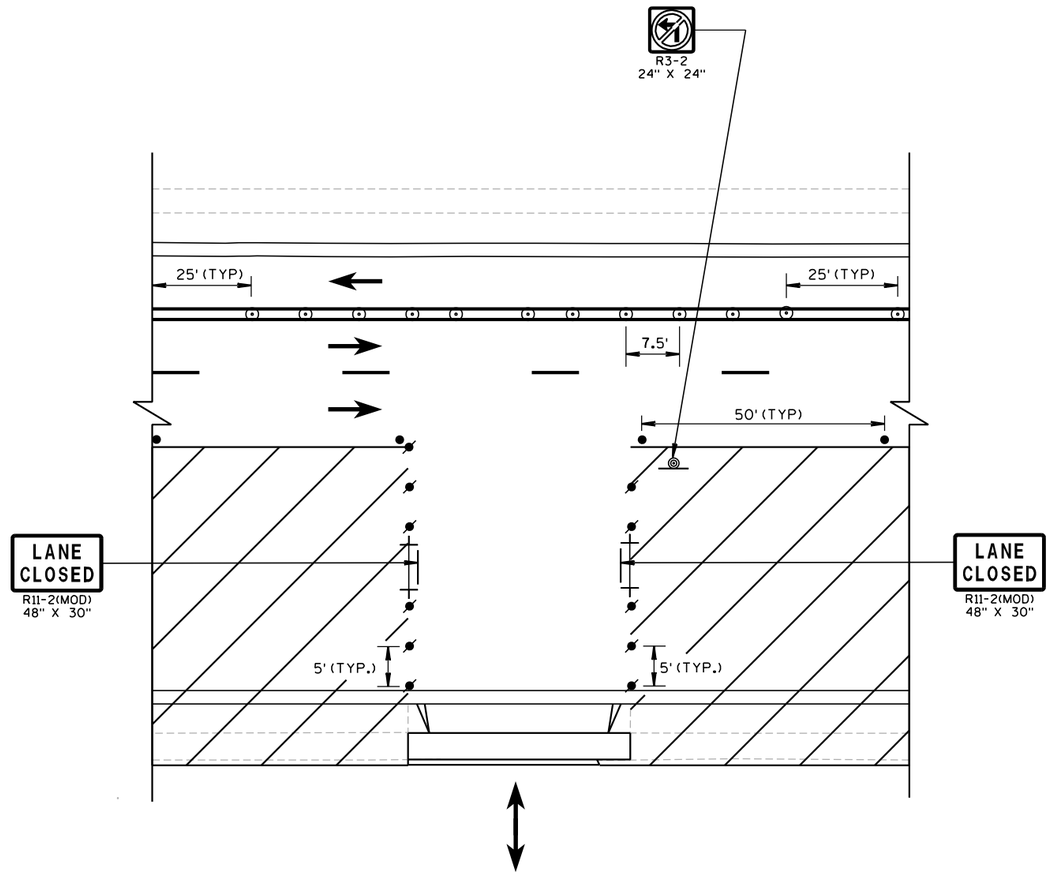


CONSTRUCTION STAGE 3 - LEFT TURN
SOUTHBOUND AT CALUMET, LOLITA AND BRADLEY

(A1) 5" ASPHALTIC SURFACE TEMPORARY
(A2) 6½" ASPHALTIC SURFACE TEMPORARY
(B1) 12" BASE AGGREGATE DENSE 1 1/4-INCH
(D1) TRAFFIC CONTROL DRUM
(F1) FLEXIBLE TUBULAR MARKER POSTS AND BASES
(P1) PAVEMENT MARKING EPOXY 4-INCH (DASHED WHITE)
(T1) TEMPORARY PAVEMENT MARKING 8-INCH (CHANNELIZING)
(T2) TEMPORARY PAVEMENT MARKING 4-INCH (DOUBLE YELLOW)
(T3) TEMPORARY PAVEMENT MARKING 4-INCH (DASHED WHITE)
(T5) EXISTING PAVEMENT MARKING (TO REMAIN)
(T6) TEMPORARY PAVEMENT MARKING REMOVABLE TAPE 4-INCH (DOUBLE YELLOW)
(T7) TEMPORARY PAVEMENT MARKING REMOVABLE TAPE 8-INCH (CHANNELIZING)
(T8) TEMPORARY PAVEMENT MARKING REMOVABLE TAPE 4-INCH (DASHED WHITE)
(T9) TEMPORARY PAVEMENT MARKING 4-INCH (WHITE)
(T11) TEMPORARY PAVEMENT MARKING REMOVABLE TAPE 4-INCH (WHITE)

PROJECT NO:2140-08-73	HWY: STH 181	COUNTY:MILWAUKEE	CONSTRUCTION STAGING TYPICAL SECTIONS	SHEET 365	E

2



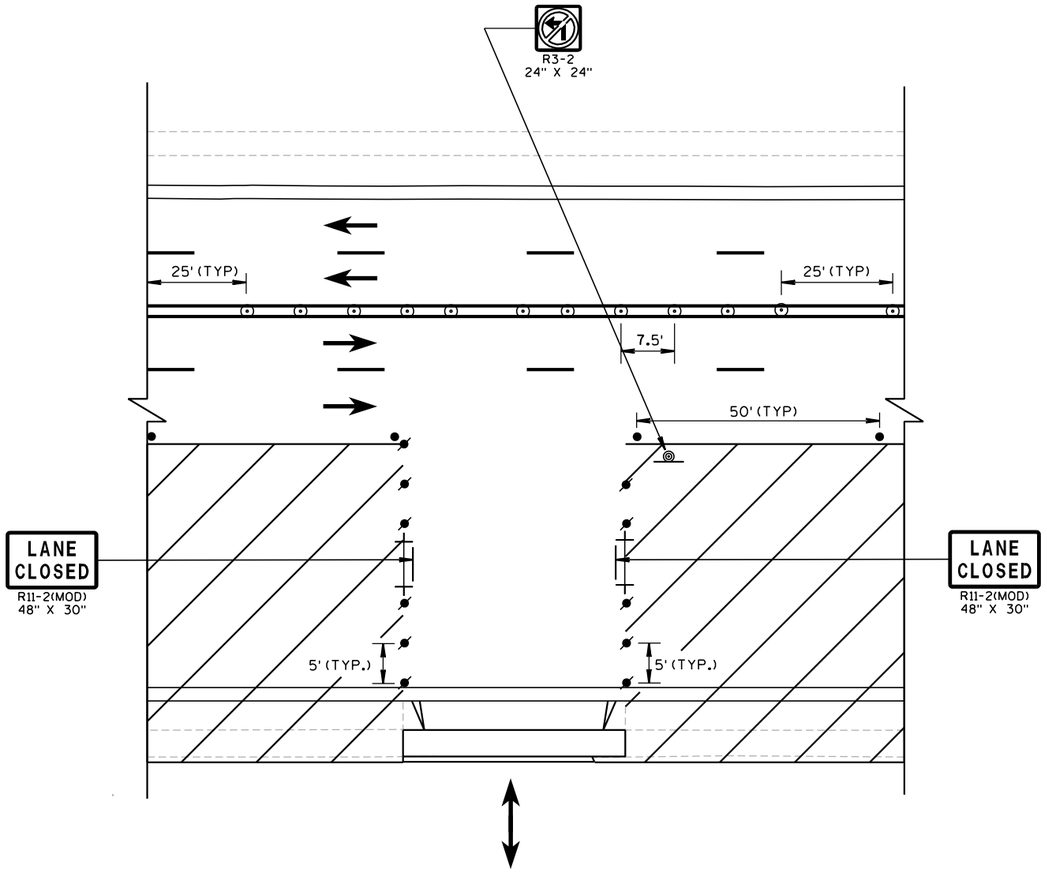
TEMPORARY ACCESS TO DRIVEWAY DETAIL NORTH OF TOWER

(STAGE 2)

LEGEND

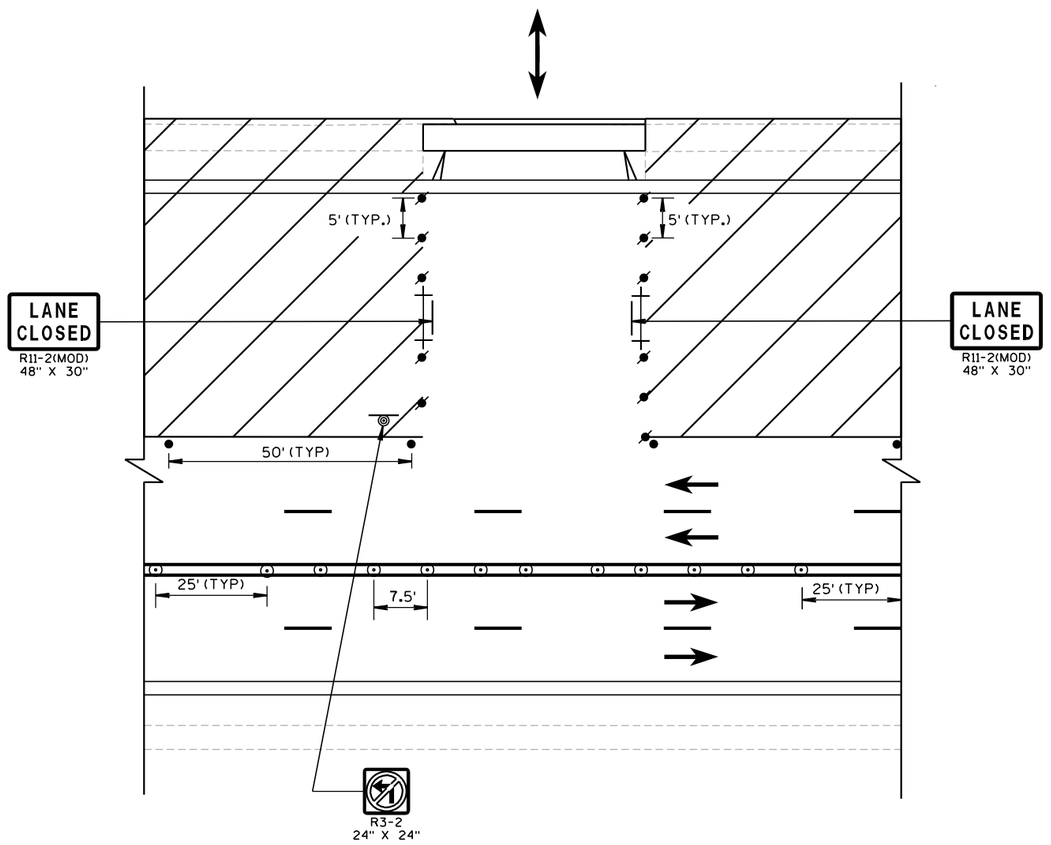
- WORK ZONE
- TRAFFIC FLOW ARROW
- DRUM WITH/WITHOUT LIGHT, TYPE C
- TYPE III BARRICADE WITH/WITHOUT SIGN
- FLEXIBLE TUBULAR MARKERS

FILE NAME : s:\@sdi\051--100\089\099\micros\design\0873\026001_c.dgn PLOT DATE : 7/30/2007 PLOT BY : $$...plotuser...$$ PLOT NAME : PLOT SCALE : $$.....plotscale.....$$ WISDOT/CADDS SHEET 42



TEMPORARY ACCESS TO DRIVEWAY DETAIL

(STAGE 2)



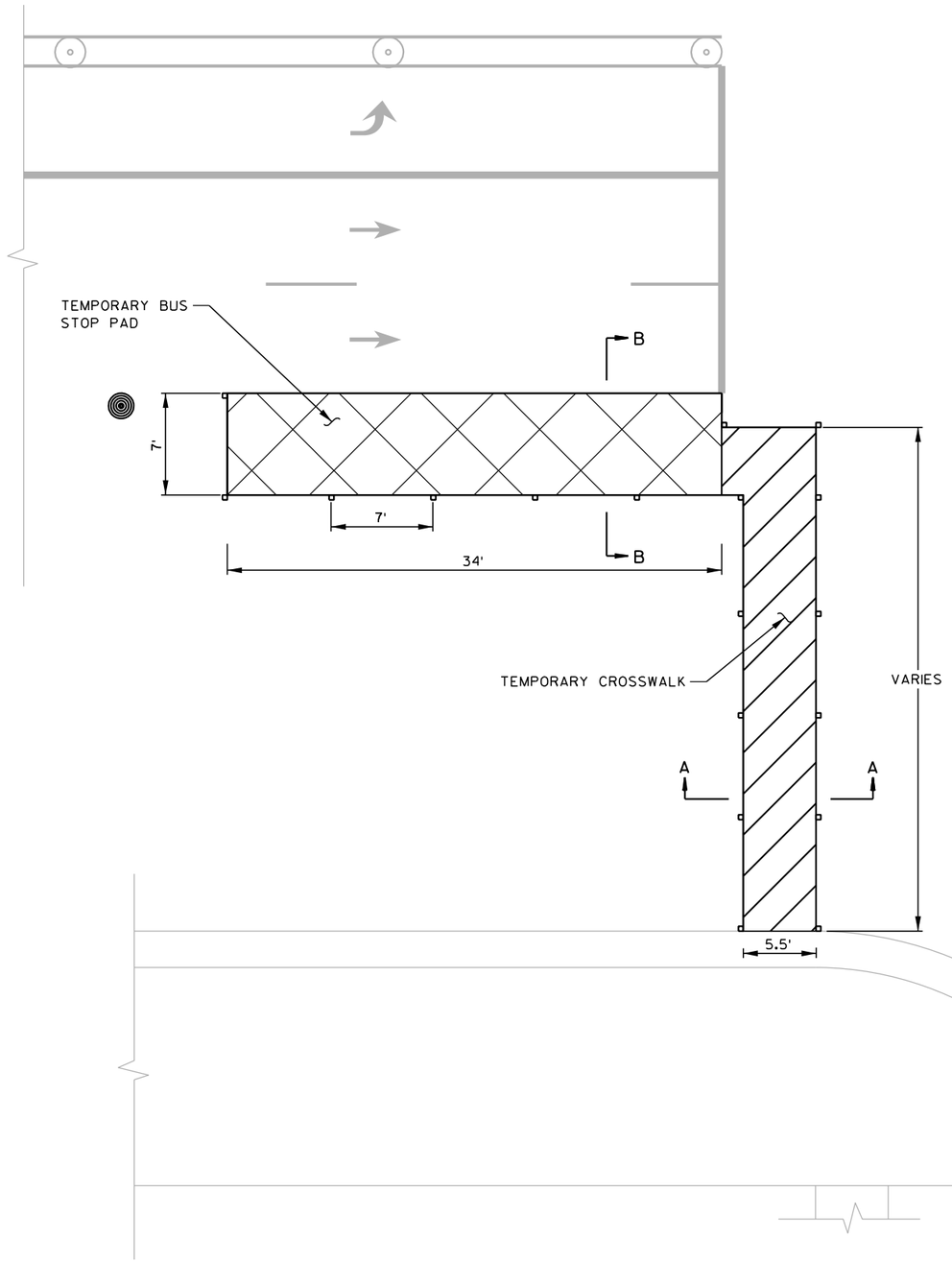
TEMPORARY ACCESS TO DRIVEWAY DETAIL

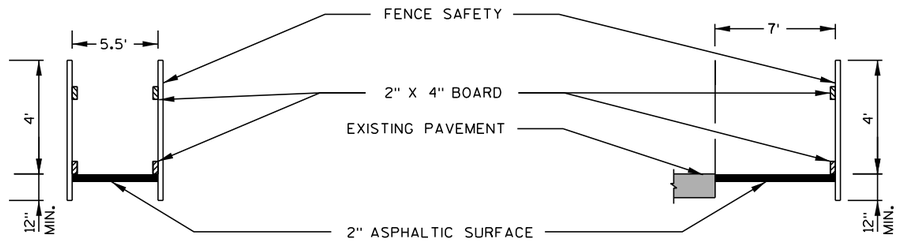
(STAGE 3)

LEGEND

- WORK ZONE
- TRAFFIC FLOW ARROW
- DRUM WITH/WITHOUT LIGHT, TYPE C
- TYPE III BARRICADE WITH/WITHOUT SIGN
- FLEXIBLE TUBULAR MARKERS

2



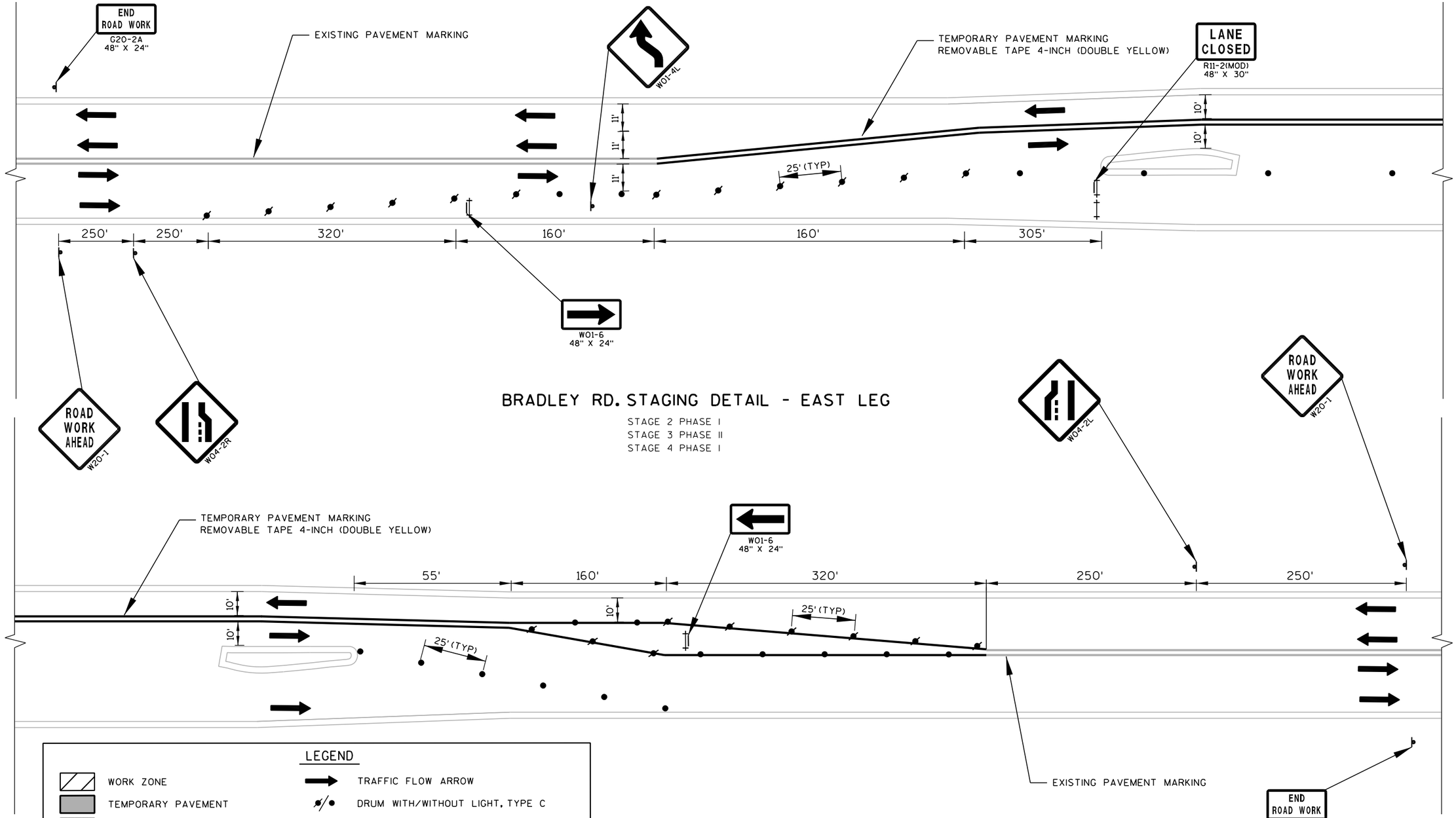


SECTION A - A

SECTION B - B

TEMPORARY CROSS WALK AND BUS STOP PAD DETAIL

PROJECT NO:2140-08-73	HWY: STH 181	COUNTY:MILWAUKEE	CONSTRUCTION DETAILS - STAGING	SHEET 368	E



BRADLEY RD. STAGING DETAIL - EAST LEG

STAGE 2 PHASE I
STAGE 3 PHASE II
STAGE 4 PHASE I

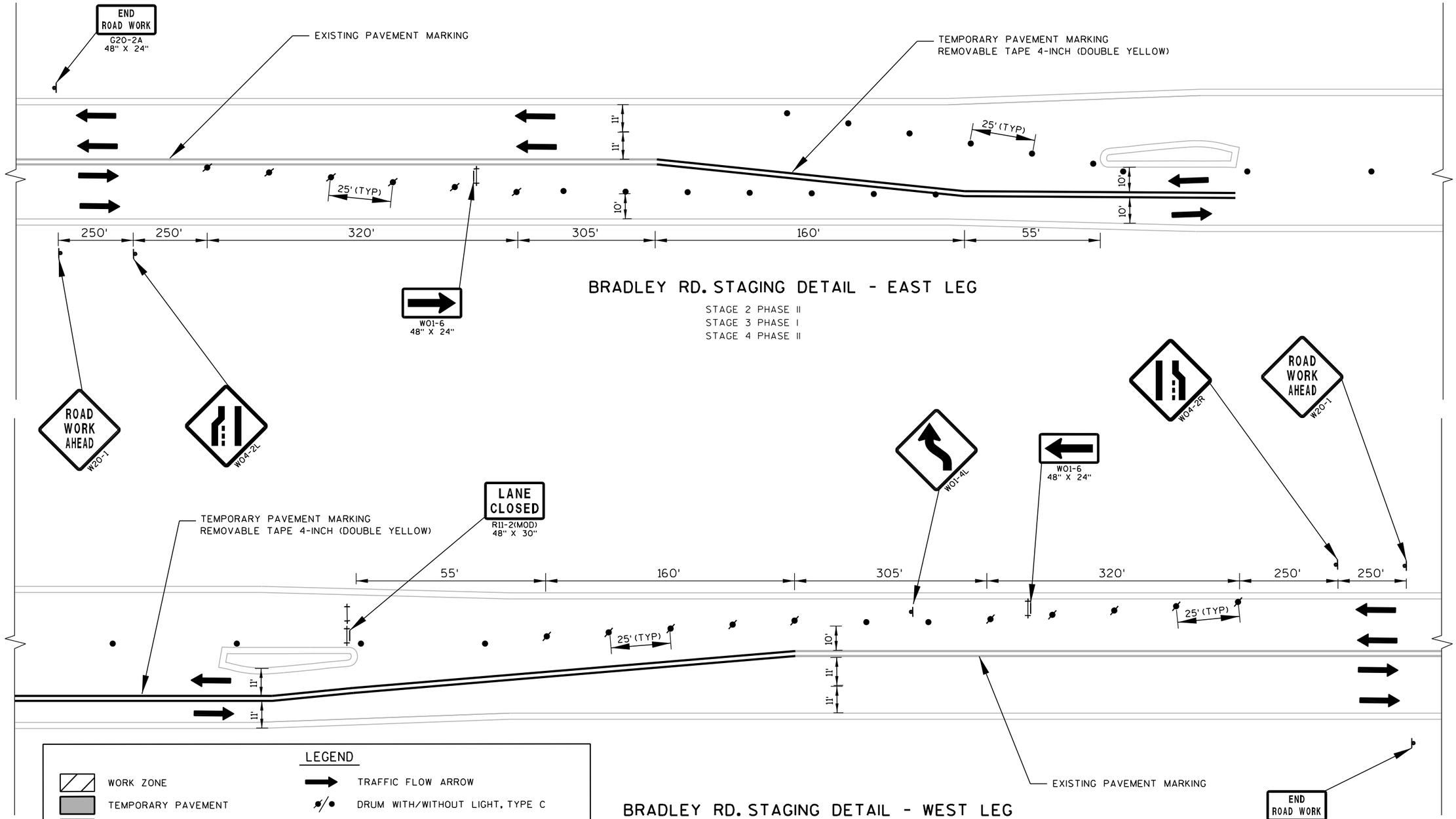
BRADLEY RD. STAGING DETAIL - WEST LEG

STAGE 2 PHASE I

LEGEND

- WORK ZONE
- TEMPORARY PAVEMENT
- TEMPORARY CROSSWALK ACCESS
- TEMPORARY BUS STOP PAD
- TEMPORARY PAVEMENT TO BE USED IN FUTURE STAGES
- SIGNAL CONTROLLED INTERSECTION
- TRAFFIC FLOW ARROW
- DRUM WITH/WITHOUT LIGHT, TYPE C
- FLEXIBLE TUBULAR MARKERS
- SIGN MOUNTED ON POST
- SIGN MOUNTED ON TEMPORARY SUPPORT
- TYPE III BARRICADE WITH/WITHOUT SIGN
- REMOVING PAVEMENT MARKINGS

PROJECT NO: 2140-08-73	HWY: STH 181-N. 76TH ST.	COUNTY: MILWAUKEE	CONSTRUCTION DETAILS - STAGING	SHEET 369	E



BRADLEY RD. STAGING DETAIL - EAST LEG

STAGE 2 PHASE II
STAGE 3 PHASE I
STAGE 4 PHASE II

BRADLEY RD. STAGING DETAIL - WEST LEG

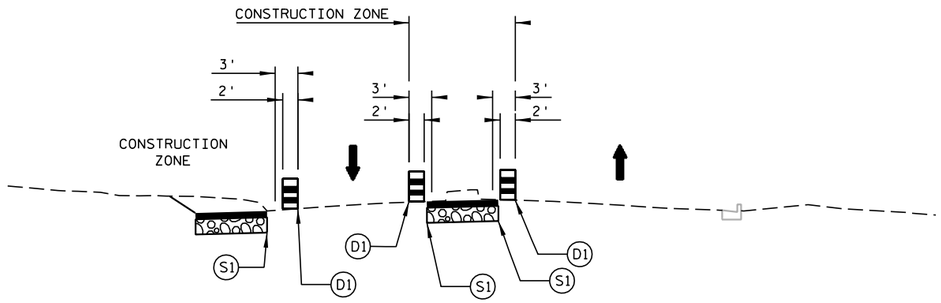
STAGE 2 PHASE II
STAGE 3 PHASE I
STAGE 4 PHASE II

LEGEND

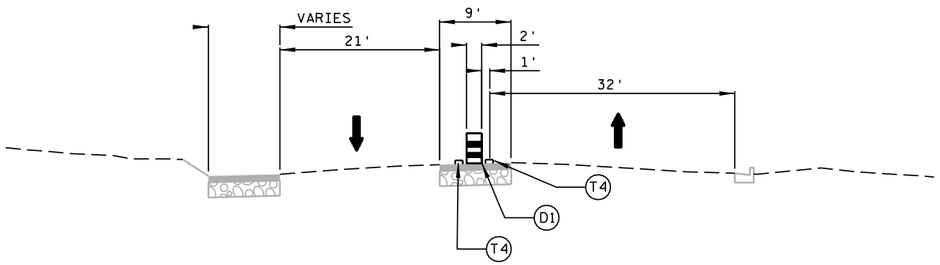
- WORK ZONE
- TEMPORARY PAVEMENT
- TEMPORARY CROSSWALK ACCESS
- TEMPORARY BUS STOP PAD
- TEMPORARY PAVEMENT TO BE USED IN FUTURE STAGES
- SIGNAL CONTROLLED INTERSECTION
- TRAFFIC FLOW ARROW
- DRUM WITH/WITHOUT LIGHT, TYPE C
- FLEXIBLE TUBULAR MARKERS
- SIGN MOUNTED ON POST
- SIGN MOUNTED ON TEMPORARY SUPPORT
- TYPE III BARRICADE WITH/WITHOUT SIGN
- REMOVING PAVEMENT MARKINGS

PROJECT NO: 2140-08-73	HWY: STH 181-N. 76TH ST.	COUNTY: MILWAUKEE	CONSTRUCTION DETAILS - STAGING	SHEET	E

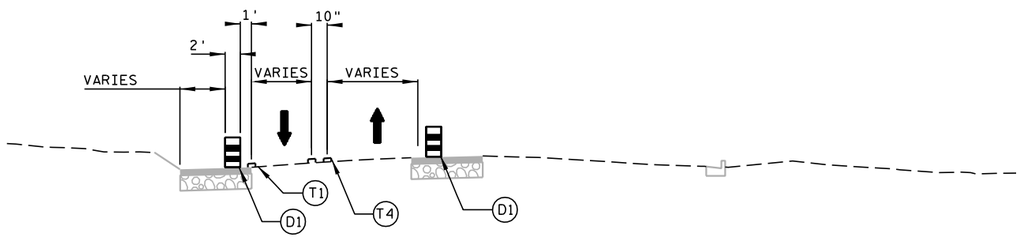
FILE NAME : s:\@sai\051--100\089\099\micros\design\0873\026001_c_e.dgn PLOT DATE : 7/30/2007 PLOT BY : $$...plotuser...$$ PLOT NAME : PLOT SCALE : $$.....plotscale.....$$ WISDOT/CADDS SHEET 42



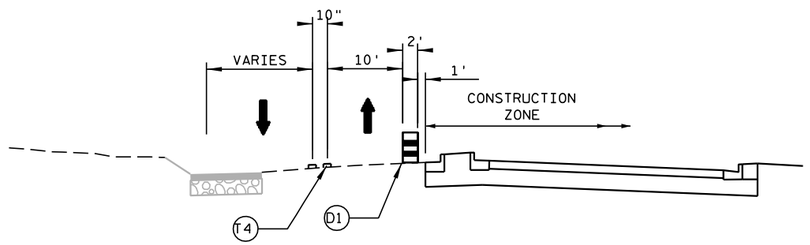
CONSTRUCTION STAGE 1 TYPICAL SECTION
CALUMET RD AT SOUTHBOUND STH 181



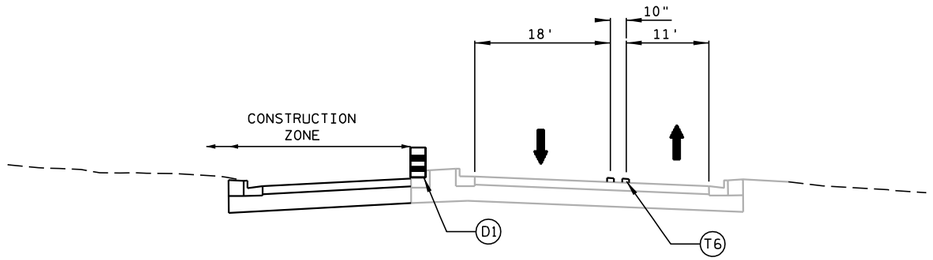
CONSTRUCTION STAGE 2 PHASE I TYPICAL SECTION
CALUMET RD AT SOUTHBOUND STH 181



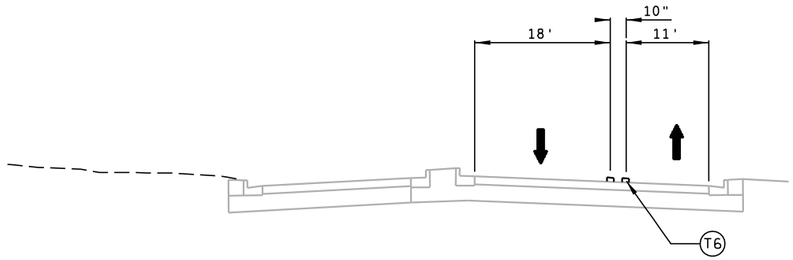
CONSTRUCTION STAGE 2 PHASE II TYPICAL SECTION
CALUMET RD AT SOUTHBOUND STH 181



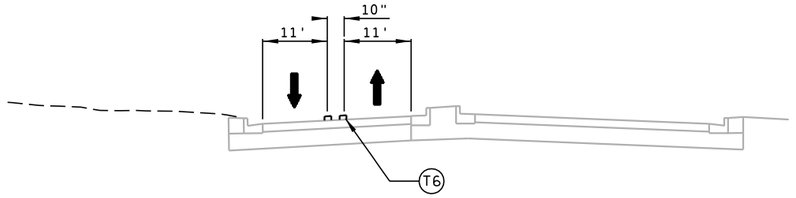
CONSTRUCTION STAGE 3 PHASE I TYPICAL SECTION
CALUMET RD AT SOUTHBOUND STH 181



CONSTRUCTION STAGE 3 PHASE II TYPICAL SECTION
CALUMET RD AT SOUTHBOUND STH 181



CONSTRUCTION STAGE 4 PHASE I TYPICAL SECTION
CALUMET RD AT SOUTHBOUND STH 181



CONSTRUCTION STAGE 4 PHASE II TYPICAL SECTION
CALUMET RD AT SOUTHBOUND STH 181

(D1) TRAFFIC CONTROL DRUM

(S1) SAWING CONCRETE PAVEMENT FULL DEPTH (REQ'D)

(T1) TEMPORARY PAVEMENT MARKING 8-INCH (CHANNELIZING)

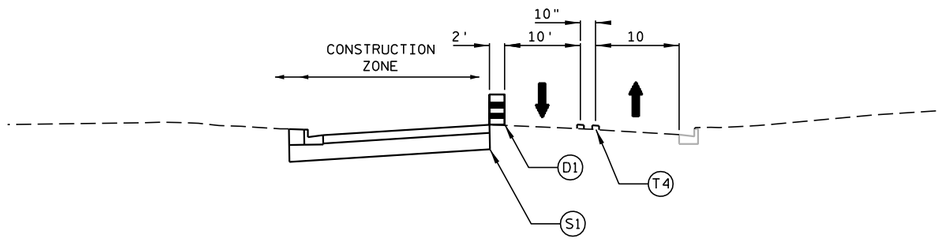
(T4) TEMPORARY PAVEMENT MARKING 4-INCH (YELLOW)

(T6) TEMPORARY PAVEMENT MARKING
REMOVABLE TAPE 4-INCH (YELLOW)

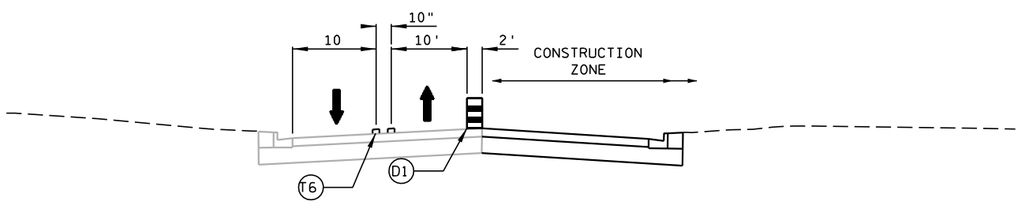
PROJECT NO:2140-08-73	HWY: STH 181	COUNTY:MILWAUKEE	CONSTRUCTION STAGING TYPICAL SECTIONS	SHEET 371	E



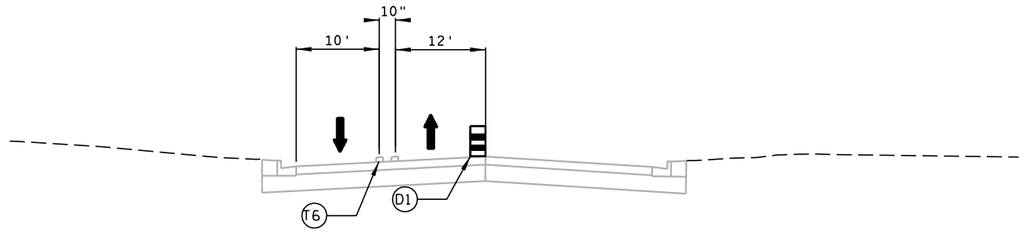
CONSTRUCTION STAGE 1 TYPICAL SECTION
CALUMET RD AT NORTHBOUND STH 181



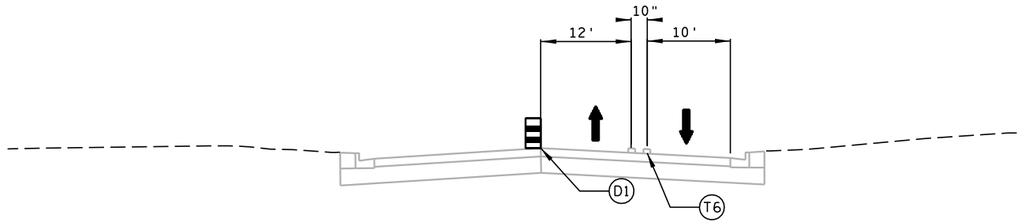
CONSTRUCTION STAGE 2 PHASE I TYPICAL SECTION
CALUMET RD AT NORTHBOUND STH 181



CONSTRUCTION STAGE 2 PHASE II TYPICAL SECTION
CALUMET RD AT NORTHBOUND STH 181



CONSTRUCTION STAGE 3 PHASE I AND STAGE 4 PHASE II TYPICAL SECTION
CALUMET RD AT NORTHBOUND STH 181



CONSTRUCTION STAGE 3 PHASE II AND STAGE 4 PHASE I TYPICAL SECTION
CALUMET RD AT NORTHBOUND STH 181

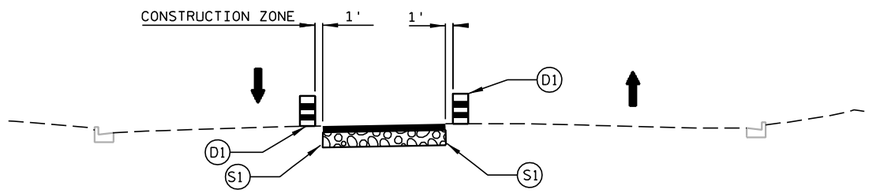
(D1) TRAFFIC CONTROL DRUM

(S1) SAWING CONCRETE PAVEMENT FULL DEPTH (REQ'D)

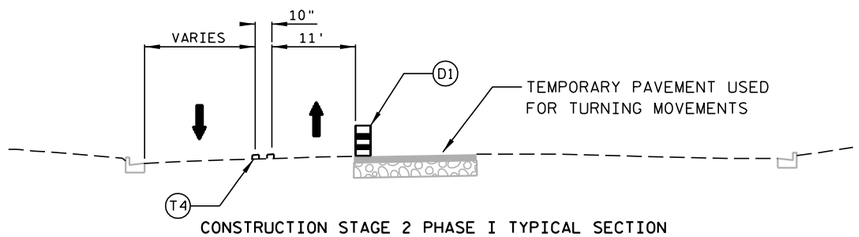
(T4) TEMPORARY PAVEMENT MARKING 4-INCH (YELLOW)

(T6) TEMPORARY PAVEMENT MARKING
REMOVABLE TAPE 4-INCH (YELLOW)

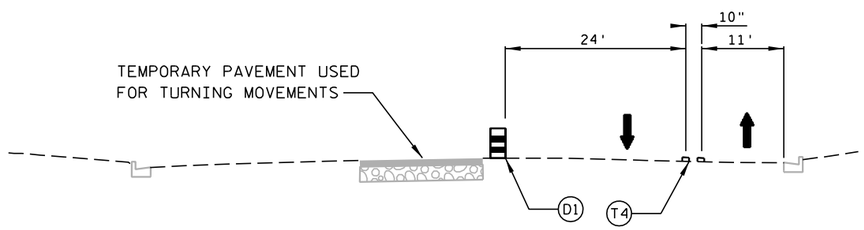
PROJECT NO:2140-08-73	HWY: STH 181	COUNTY: MILWAUKEE	CONSTRUCTION STAGING TYPICAL SECTIONS	SHEET 372	E



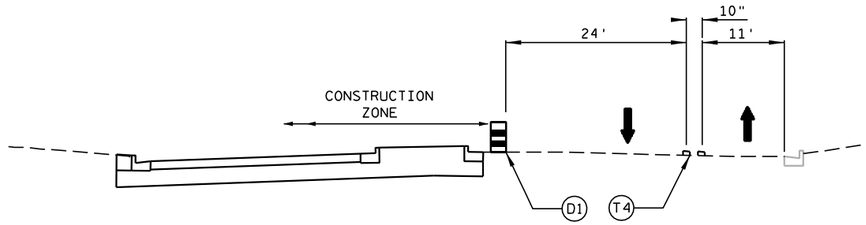
CONSTRUCTION STAGE 1 TYPICAL SECTION
BRADLEY RD. AT SOUTHBOUND STH 181



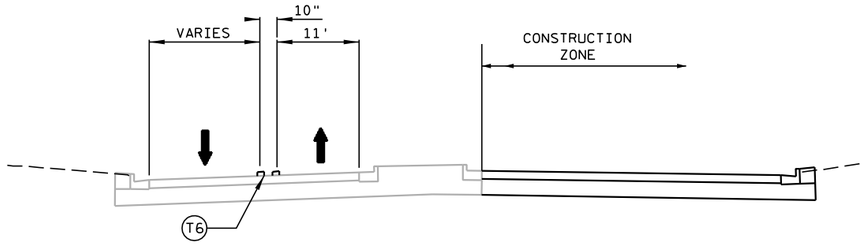
CONSTRUCTION STAGE 2 PHASE I TYPICAL SECTION
BRADLEY RD. AT SOUTHBOUND STH 181



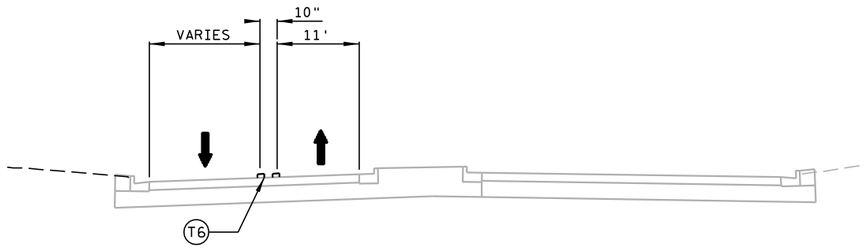
CONSTRUCTION STAGE 2 PHASE II TYPICAL SECTION
BRADLEY RD. AT SOUTHBOUND STH 181



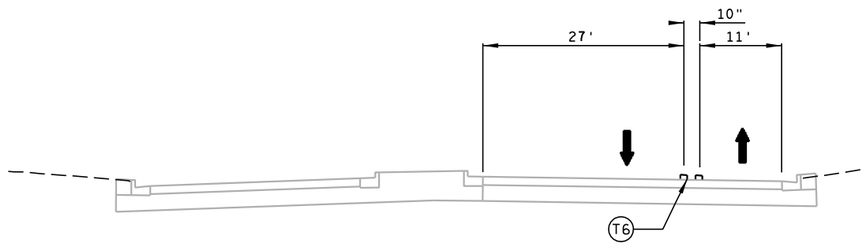
CONSTRUCTION STAGE 3 PHASE I TYPICAL SECTION
BRADLEY RD. AT SOUTHBOUND STH 181



CONSTRUCTION STAGE 3 PHASE II TYPICAL SECTION
BRADLEY RD. AT SOUTHBOUND STH 181



CONSTRUCTION STAGE 4 PHASE I TYPICAL SECTION
BRADLEY RD. AT SOUTHBOUND STH 181



CONSTRUCTION STAGE 4 PHASE II TYPICAL SECTION
BRADLEY RD. AT SOUTHBOUND STH 181

(D1) TRAFFIC CONTROL DRUM

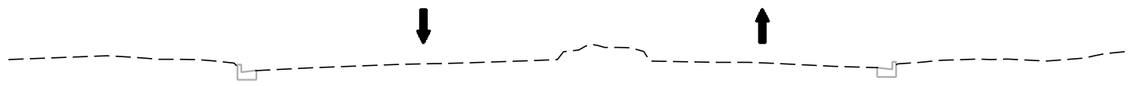
(S1) SAWING CONCRETE PAVEMENT FULL DEPTH (REQ'D)

(T4) TEMPORARY PAVEMENT MARKING 4-INCH (YELLOW)

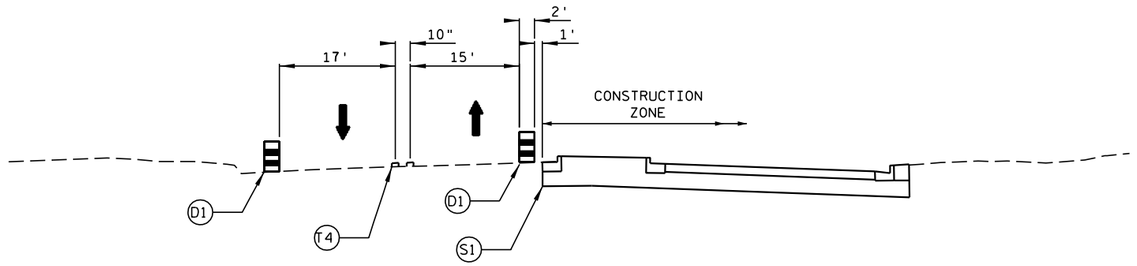
(T5) EXISTING PAVEMENT MARKING (TO REMAIN)

(T6) TEMPORARY PAVEMENT MARKING
REMOVABLE TAPE 4-INCH (YELLOW)

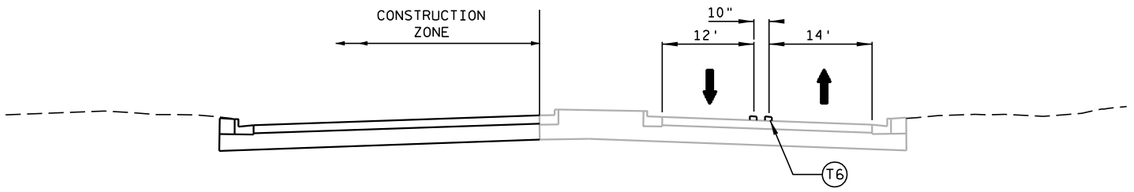
PROJECT NO:2140-08-73	HWY: STH 181	COUNTY: MILWAUKEE	CONSTRUCTION STAGING TYPICAL SECTIONS	SHEET 373	E



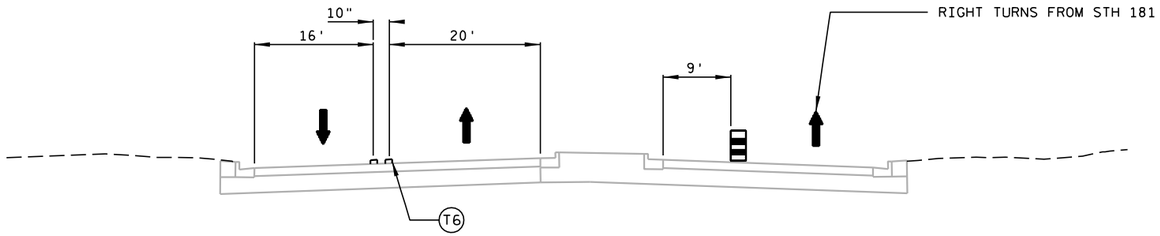
CONSTRUCTION STAGE 1 TYPICAL SECTION
BRADLEY RD. AT NORTHBOUND STH 181



CONSTRUCTION STAGE 2 PHASE I TYPICAL SECTION
BRADLEY RD. AT NORTHBOUND STH 181



CONSTRUCTION STAGE 2 PHASE II TYPICAL SECTION
BRADLEY RD. AT NORTHBOUND STH 181



CONSTRUCTION STAGE 3 PHASE II AND STAGE 4 PHASE I TYPICAL SECTION
BRADLEY RD. AT NORTHBOUND STH 181

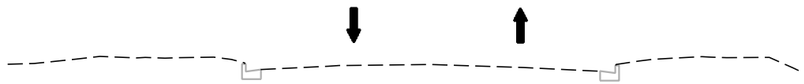
CONSTRUCTION STAGE 3 PHASE I AND STAGE 4 PHASE II TYPICAL SECTION
BRADLEY RD. AT NORTHBOUND STH 181

(D1) TRAFFIC CONTROL DRUM

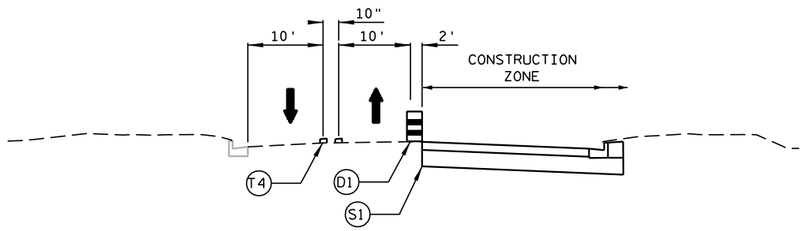
(S1) SAWING CONCRETE PAVEMENT FULL DEPTH (REQ'D)

(T4) TEMPORARY PAVEMENT MARKING 4-INCH (YELLOW)

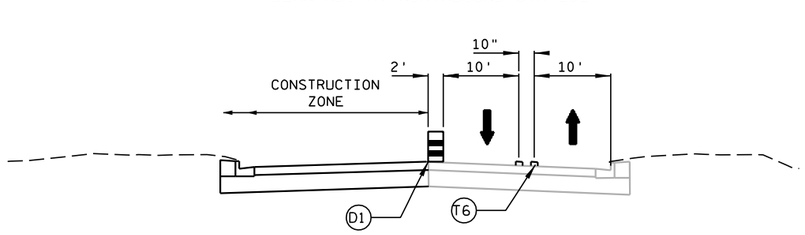
(T6) TEMPORARY PAVEMENT MARKING
REMOVABLE TAPE 4-INCH (YELLOW)



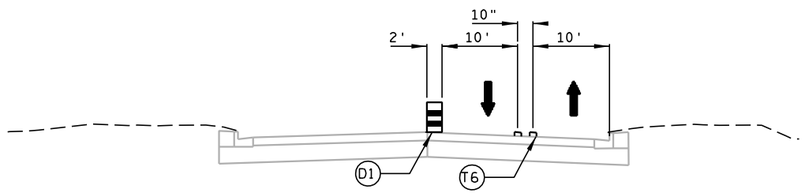
CONSTRUCTION STAGE 1 TYPICAL SECTION
DEAN RD. AT SOUTHBOUND AND NORTHBOUND STH 181



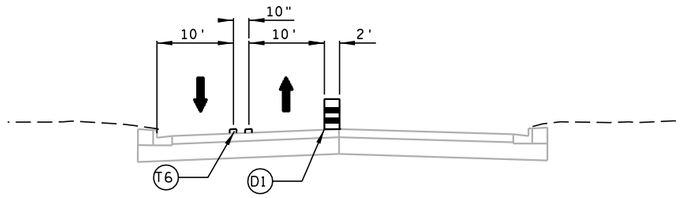
CONSTRUCTION STAGE 2 PHASE I TYPICAL SECTION
DEAN RD. AT NORTHBOUND STH 181



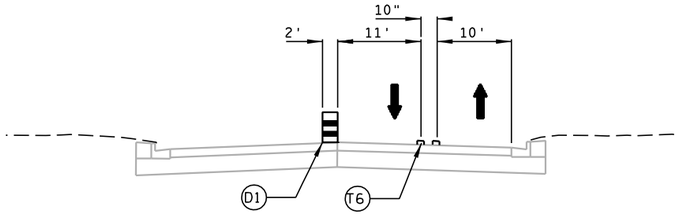
CONSTRUCTION STAGE 2 PHASE II TYPICAL SECTION
DEAN RD. AT NORTHBOUND STH 181



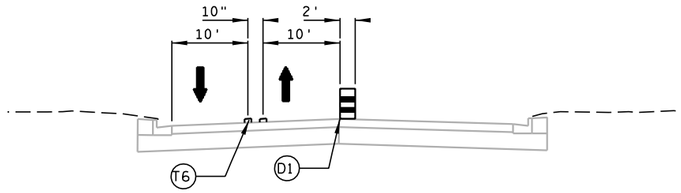
CONSTRUCTION STAGE 3 PHASE I TYPICAL SECTION
DEAN RD. AT NORTHBOUND STH 181



CONSTRUCTION STAGE 3 PHASE II TYPICAL SECTION
DEAN RD. AT NORTHBOUND STH 181



CONSTRUCTION STAGE 4 PHASE I TYPICAL SECTION
DEAN RD. AT NORTHBOUND STH 181



CONSTRUCTION STAGE 4 PHASE II TYPICAL SECTION
DEAN RD. AT NORTHBOUND STH 181

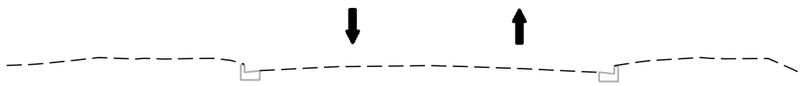
(D1) TRAFFIC CONTROL DRUM

(S1) SAWING CONCRETE PAVEMENT FULL DEPTH (REQ'D)

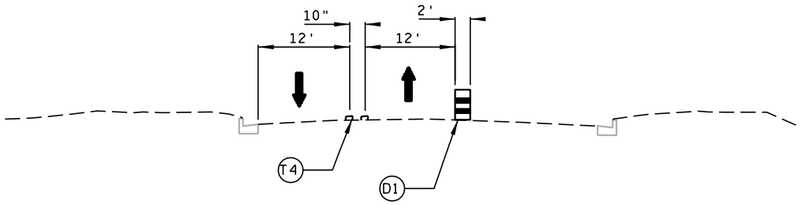
(T4) TEMPORARY PAVEMENT MARKING 4-INCH (YELLOW)

(T6) TEMPORARY PAVEMENT MARKING
REMOVABLE TAPE 4-INCH (YELLOW)

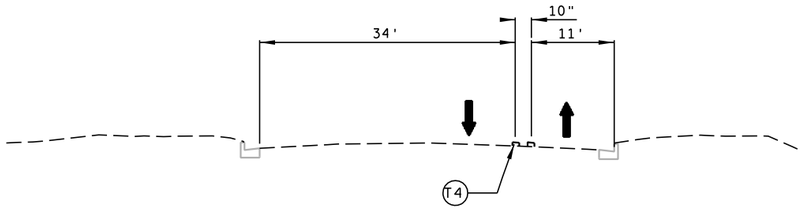
PROJECT NO:2140-08-73	HWY: STH 181	COUNTY:MILWAUKEE	CONSTRUCTION STAGING TYPICAL SECTIONS	SHEET 375	E



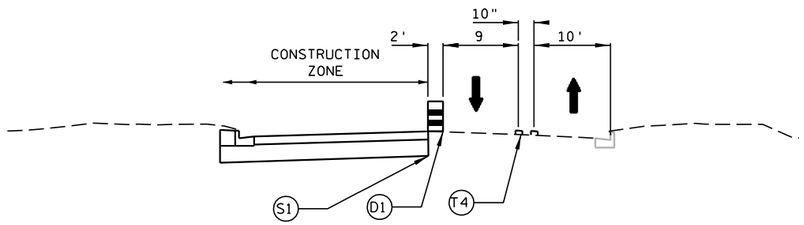
CONSTRUCTION STAGE 1 TYPICAL SECTION
DEAN RD. AT SOUTHBOUND AND NORTHBOUND STH 181



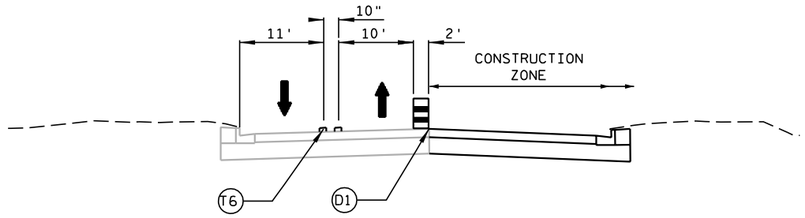
CONSTRUCTION STAGE 2 PHASE I TYPICAL SECTION
DEAN RD. AT SOUTHBOUND STH 181



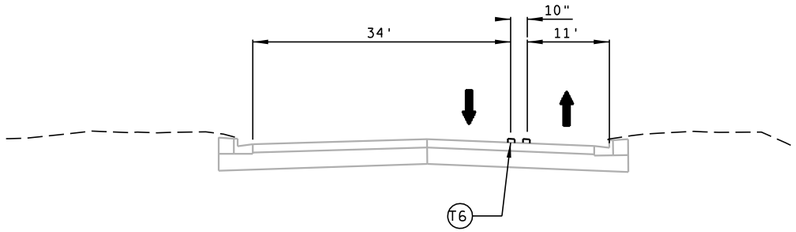
CONSTRUCTION STAGE 2 PHASE I TYPICAL SECTION
DEAN RD. AT SOUTHBOUND STH 181



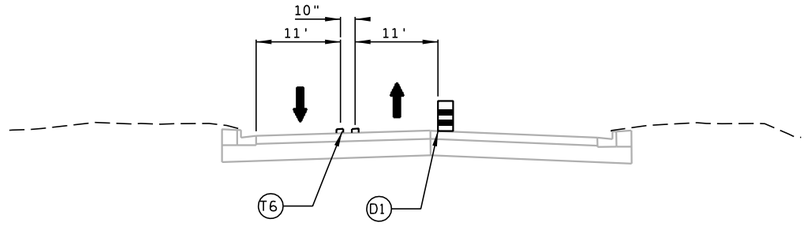
CONSTRUCTION STAGE 3 PHASE I TYPICAL SECTION
DEAN RD. AT SOUTHBOUND STH 181



CONSTRUCTION STAGE 3 PHASE II TYPICAL SECTION
DEAN RD. AT SOUTHBOUND STH 181



CONSTRUCTION STAGE 4 PHASE I TYPICAL SECTION
DEAN RD. AT SOUTHBOUND STH 181



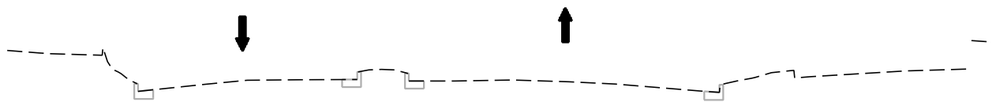
CONSTRUCTION STAGE 4 PHASE II TYPICAL SECTION
DEAN RD. AT SOUTHBOUND STH 181

(D1) TRAFFIC CONTROL DRUM

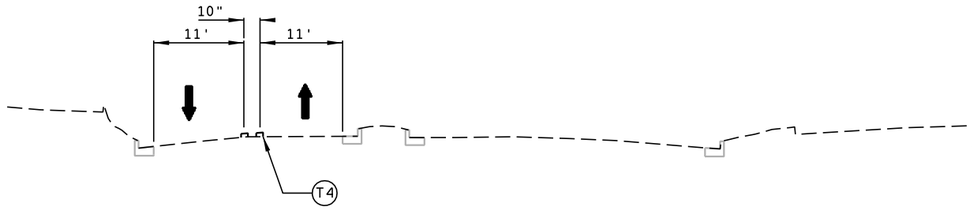
(S1) SAWING CONCRETE PAVEMENT FULL DEPTH (REQ'D)

(T4) TEMPORARY PAVEMENT MARKING 4-INCH (YELLOW)

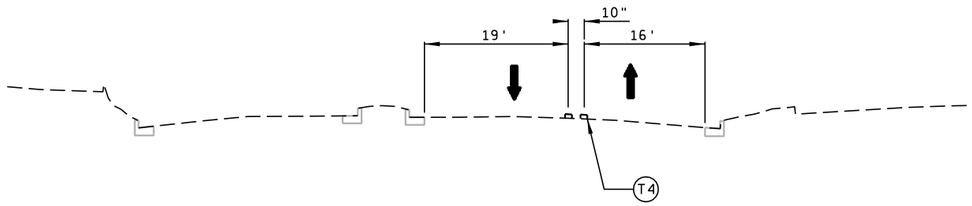
(T6) TEMPORARY PAVEMENT MARKING
REMOVABLE TAPE 4-INCH (YELLOW)



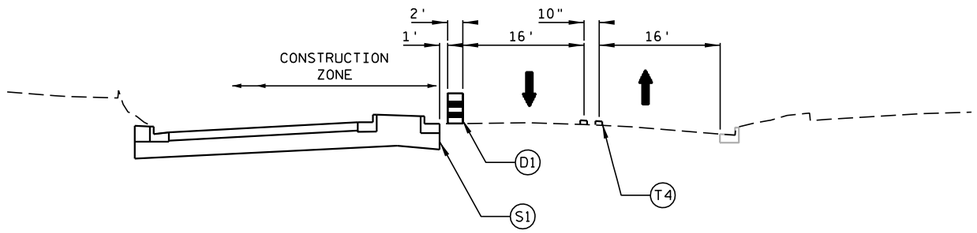
CONSTRUCTION STAGE 1 TYPICAL SECTION
NORTHRIDGE LAKES BLVD AT SOUTHBOUND STH 181



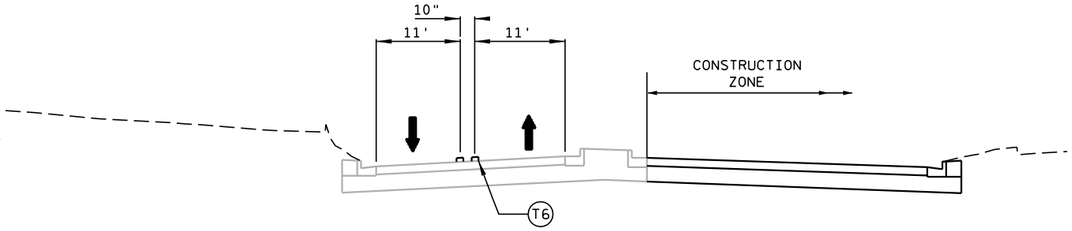
CONSTRUCTION STAGE 2 PHASE I TYPICAL SECTION
NORTHRIDGE LAKES BLVD AT SOUTHBOUND STH 181



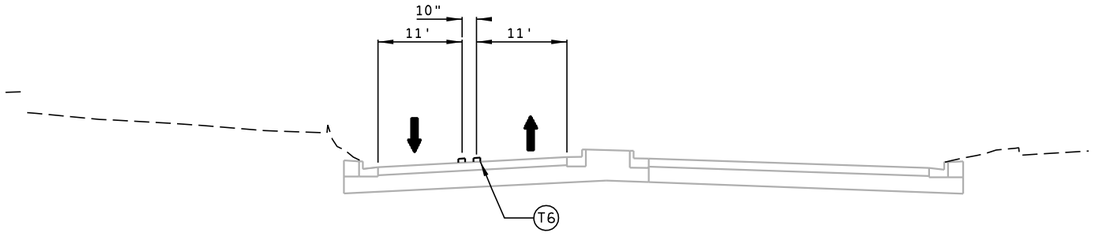
CONSTRUCTION STAGE 2 PHASE II TYPICAL SECTION
NORTHRIDGE LAKES BLVD AT SOUTHBOUND STH 181



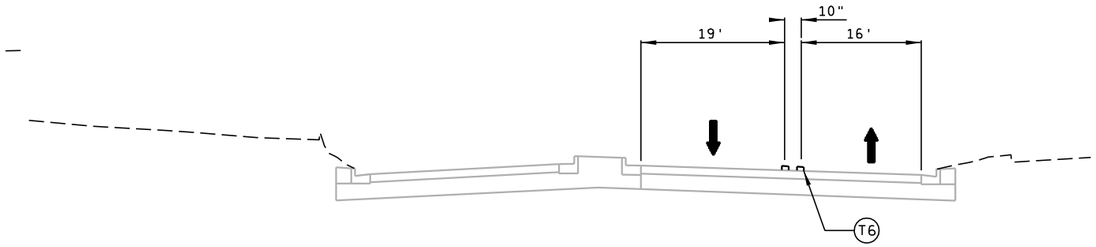
CONSTRUCTION STAGE 3 PHASE I TYPICAL SECTION
NORTHRIDGE LAKES BLVD AT SOUTHBOUND STH 181



CONSTRUCTION STAGE 3 PHASE II TYPICAL SECTION
NORTHRIDGE LAKES BLVD AT SOUTHBOUND STH 181



CONSTRUCTION STAGE 4 PHASE I TYPICAL SECTION
NORTHRIDGE LAKES BLVD AT SOUTHBOUND STH 181



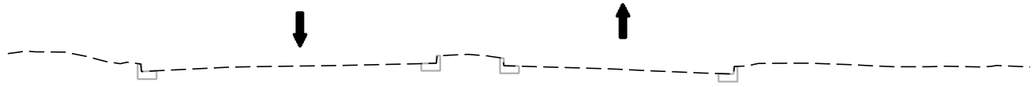
CONSTRUCTION STAGE 4 PHASE II TYPICAL SECTION
NORTHRIDGE LAKES BLVD AT SOUTHBOUND STH 181

(D1) TRAFFIC CONTROL DRUM

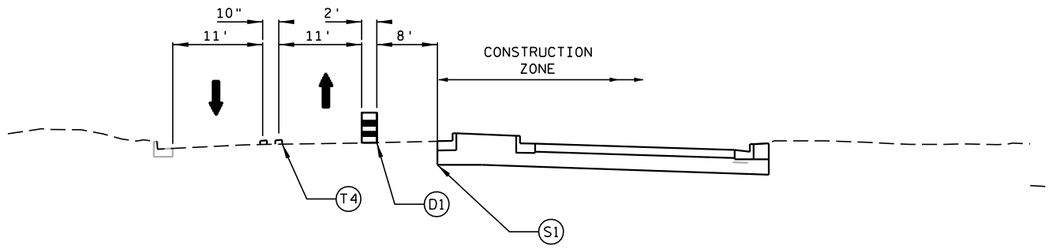
(S1) SAWING CONCRETE PAVEMENT FULL DEPTH (REQ'D)

(T4) TEMPORARY PAVEMENT MARKING 4-INCH (YELLOW)

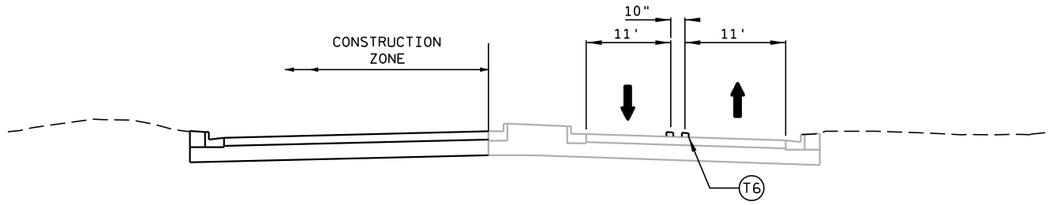
(T6) TEMPORARY PAVEMENT MARKING
REMOVABLE TAPE 4-INCH (YELLOW)



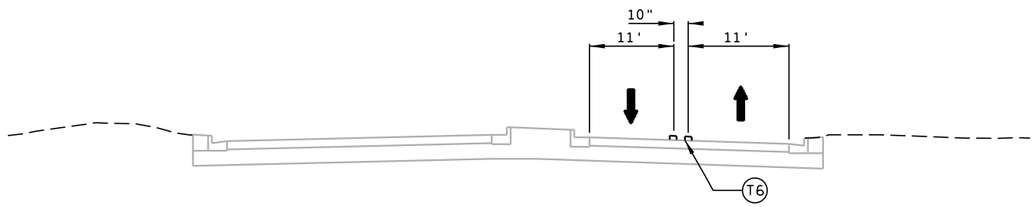
CONSTRUCTION STAGE 1 TYPICAL SECTION
NORTHRIDGE LAKES BLVD AT NORTHBOUND STH 181



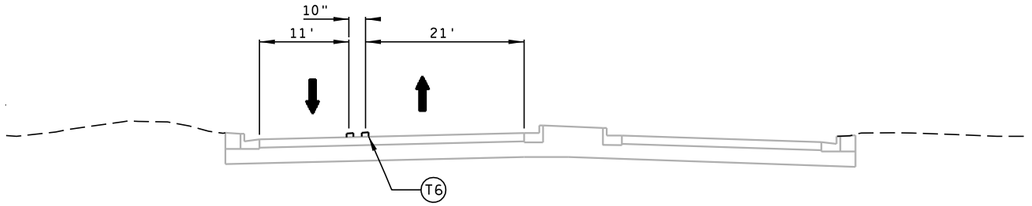
CONSTRUCTION STAGE 2 PHASE I TYPICAL SECTION
NORTHRIDGE LAKES BLVD AT NORTHBOUND STH 181



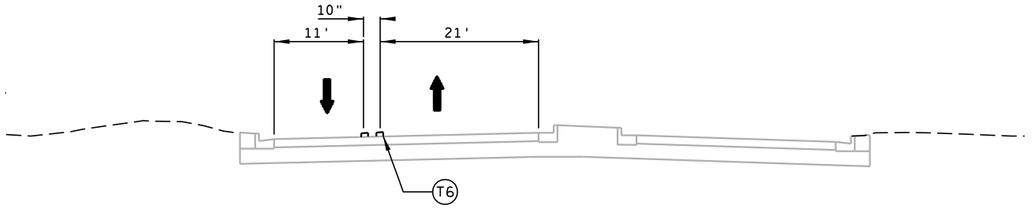
CONSTRUCTION STAGE 2 PHASE II TYPICAL SECTION
NORTHRIDGE LAKES BLVD AT NORTHBOUND STH 181



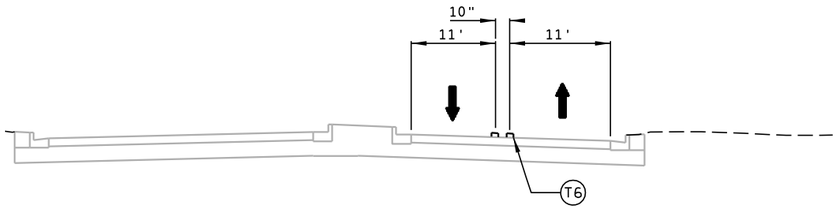
CONSTRUCTION STAGE 3 PHASE I TYPICAL SECTION
NORTHRIDGE LAKES BLVD AT NORTHBOUND STH 181



CONSTRUCTION STAGE 3 PHASE II TYPICAL SECTION
NORTHRIDGE LAKES BLVD AT NORTHBOUND STH 181



CONSTRUCTION STAGE 4 PHASE I TYPICAL SECTION
NORTHRIDGE LAKES BLVD AT NORTHBOUND STH 181



CONSTRUCTION STAGE 4 PHASE II TYPICAL SECTION
NORTHRIDGE LAKES BLVD AT NORTHBOUND STH 181

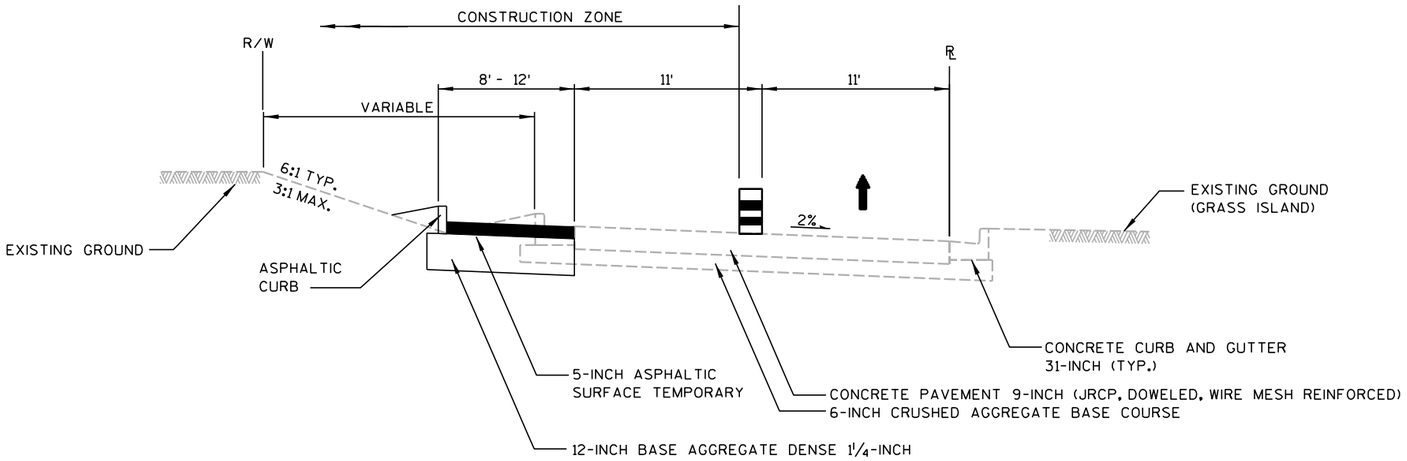
(D1) TRAFFIC CONTROL DRUM

(S1) SAWING CONCRETE PAVEMENT FULL DEPTH (REQ'D)

(T4) TEMPORARY PAVEMENT MARKING 4-INCH (YELLOW)

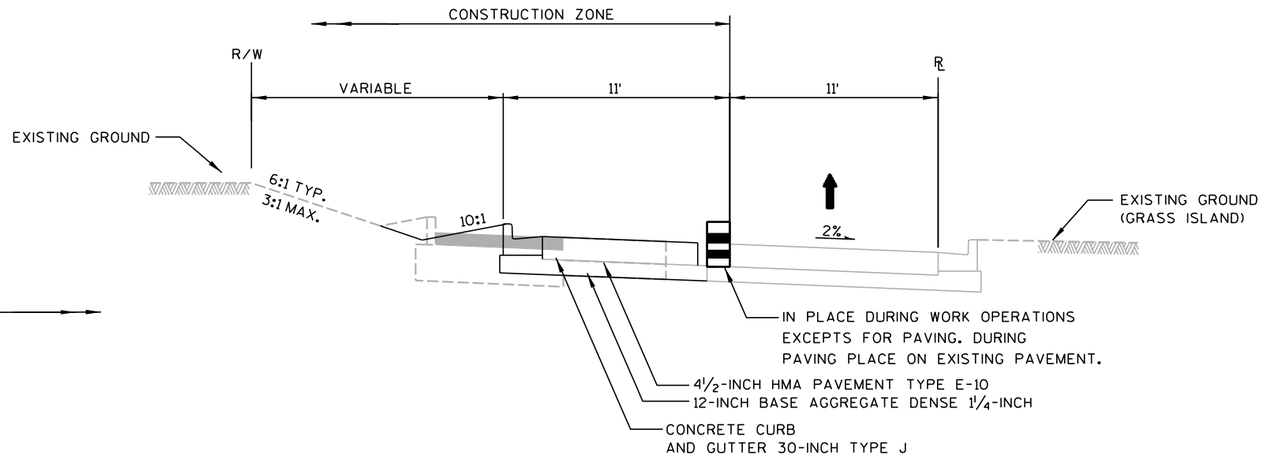
(T6) TEMPORARY PAVEMENT MARKING
REMOVABLE TAPE 4-INCH (YELLOW)

PROJECT NO:2140-08-73	HWY: STH 181	COUNTY:MILWAUKEE	CONSTRUCTION STAGING TYPICAL SECTIONS	SHEET 378	E



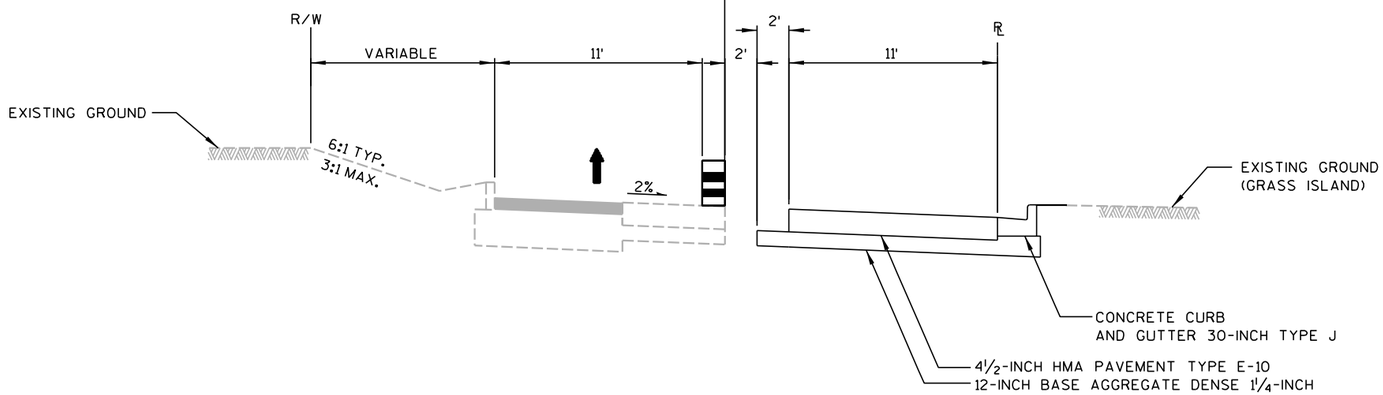
TYPICAL RAMP STAGING - STAGE 1
'TSE' AND 'TNE' RAMPS AT BROWN DEER RD

- TRAFFIC ON EXISTING RAMP PAVEMENT
- REMOVE EXISTING CURB AND GUTTER
- GRADE FOR TEMPORARY ROADWAY
- PAVE TEMPORARY ASPHALTIC SURFACE



TYPICAL RAMP STAGING - STAGE 2 PHASE 2
'TSE' AND 'TNE' RAMPS AT BROWN DEER RD

- TRAFFIC ON PROPOSED RAMP
- REMOVE TEMPORARY CURB AND GUTTER AND ASPHALT
- GRADE FOR PROPOSED ROADWAY
- INSTALL NEW CURB AND GUTTER
- PAVE PROPOSD ASPHALTIC SURFACE



TYPICAL RAMP STAGING - STAGE 2 PHASE 1
'TSE' AND 'TNE' RAMPS AT BROWN DEER RD

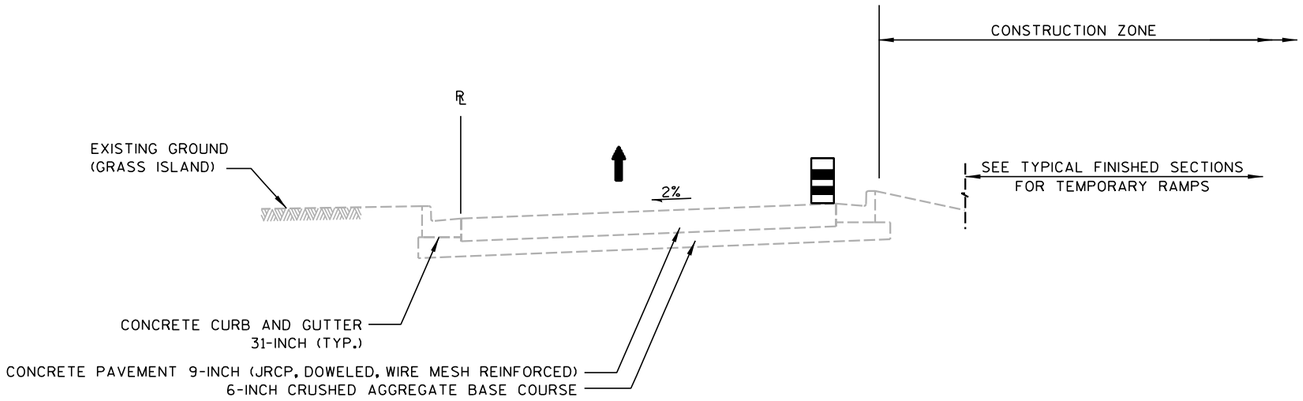
- TRAFFIC ON TEMPORARY RAMP
- REMOVE EXISTING CURB AND GUTTER AND ASPHALT
- GRADE FOR PROPOSED ROADWAY
- INSTALL NEW CURB AND GUTTER
- PAVE PROPOSD ASPHALTIC SURFACE

NOTES

TYPICAL SECTIONS FOR RAMPS NEAR
ISLANDS AT BROWN DEER ROAD

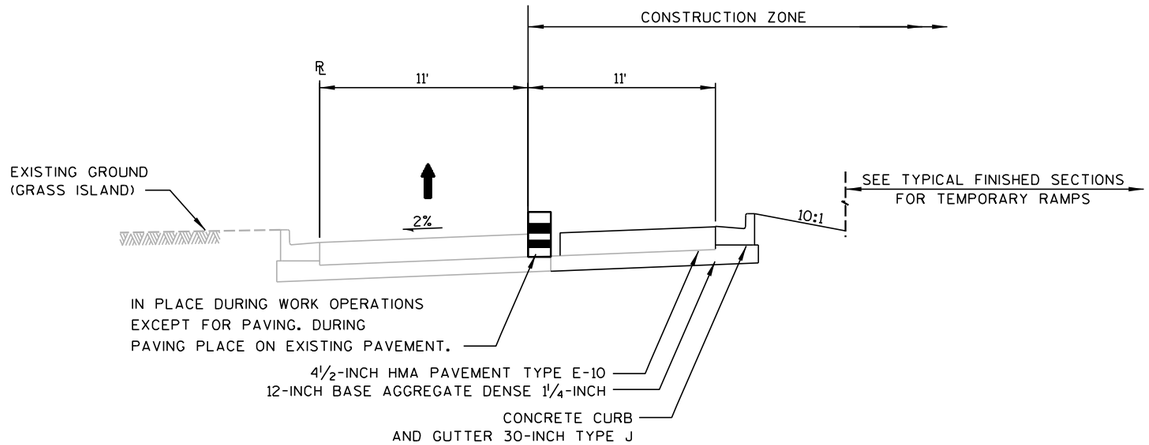
TOP COURSE OF ASPHALT TO BE PAVED
DURING RAMP CLOSURE. SEE SPECIAL PROVISIONS

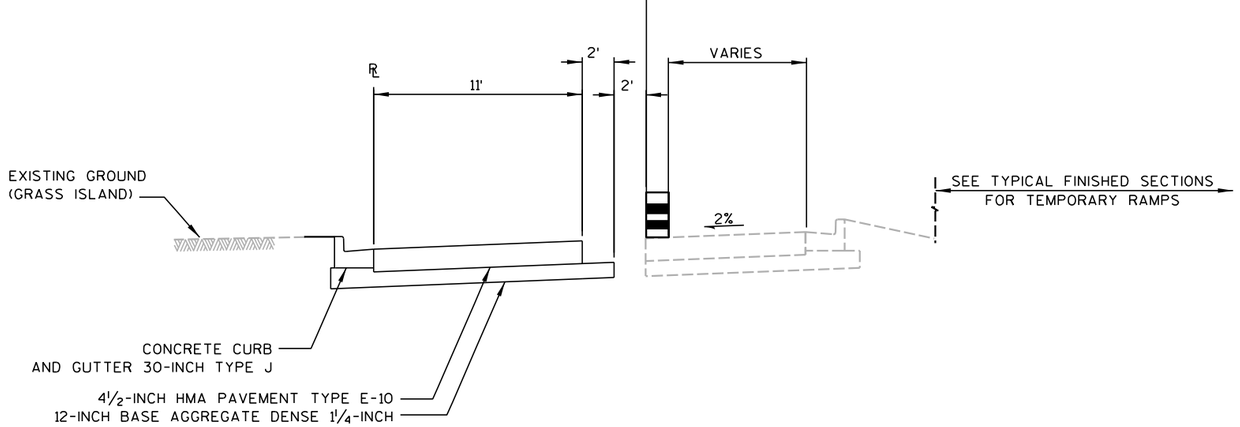
PROJECT NO: 2140-08-73	HWY: STH 181	COUNTY: MILWAUKEE	CONSTRUCTION STAGING - TYPICAL SECTIONS RAMPS	SHEET 379	E



TYPICAL RAMP STAGING - STAGE 2 PHASE 1
'TSW' AND 'TNW' RAMPS AT BROWN DEER RD

- TRAFFIC ON EXISTING RAMP PAVEMENT
- REMOVE EXISTING CURB AND GUTTER
- GRADE FOR TEMPORARY ROADWAY
- PAVE TEMPORARY ASPHALTIC SURFACE





TYPICAL RAMP STAGING - STAGE 3 PHASE 1
'TSW' AND 'TNW' RAMPS AT BROWN DEER RD

- TRAFFIC ON TEMPORARY RAMP
- REMOVE EXISTING CURB AND GUTTER AND ASPHALT
- GRADE FOR PROPOSED ROADWAY
- INSTALL NEW CURB AND GUTTER
- PAVE PROPOSD ASPHALTIC SURFACE

TYPICAL RAMP STAGING - STAGE 3 PHASE 2
'TSW' AND 'TNW' RAMPS AT BROWN DEER RD

- TRAFFIC ON PROPOSED RAMP
- REMOVE EXISTING CURB AND GUTTER AND ASPHALT
- GRADE FOR PROPOSED ROADWAY
- INSTALL NEW CURB AND GUTTER
- PAVE PROPOSD ASPHALTIC SURFACE

NOTES

TYPICAL SECTIONS FOR RAMPS NEAR
ISLANDS AT BROWN DEER ROAD

TOP COURSE OF ASPHALT TO BE PAVED
DURING RAMP CLOSURE. SEE SPECIAL PROVISIONS

PROJECT NO: 2140-08-73	HWY: STH 181	COUNTY: MILWAUKEE	CONSTRUCTION STAGING - TYPICAL SECTIONS RAMPS	SHEET 380	E

2

1. TEMPORARY PAVEMENT MARKING 4-INCH (DASHED WHITE)
2. TEMPORARY PAVEMENT MARKING REMOVABLE TAPE 4-INCH (DASHED WHITE)
3. TEMPORARY PAVEMENT MARKING 4-INCH (WHITE)
4. TEMPORARY PAVEMENT MARKING REMOVABLE TAPE 4-INCH (WHITE)
5. TEMPORARY PAVEMENT MARKING 4-INCH (YELLOW)
6. TEMPORARY PAVEMENT MARKING REMOVABLE TAPE 4-INCH (YELLOW)
7. TEMPORARY PAVEMENT MARKING ARROWS (TYP)
8. TEMPORARY PAVEMENT MARKING ARROWS REMOVABLE TAPE (TYP)
9. TEMPORARY PAVEMENT MARKING WORDS (TYP)
10. TEMPORARY PAVEMENT MARKING WORDS REMOVABLE TAPE (TYP)
11. TEMPORARY PAVEMENT MARKING 8-INCH (CHANNELIZING)
12. TEMPORARY PAVEMENT MARKING REMOVABLE TAPE 8-INCH (CHANNELIZING)
13. TEMPORARY PAVEMENT MARKING STOP LINE 18-INCH
14. TEMPORARY PAVEMENT MARKING STOP LINE REMOVABLE TAPE 18-INCH
15. TEMPORARY PAVEMENT MARKING 4-INCH (DOUBLE YELLOW)
16. TEMPORARY PAVEMENT MARKING REMOVABLE TAPE 4-INCH (DOUBLE YELLOW)
17. PAVEMENT MARKING WET REFLECTIVE TAPE 4-INCH (DASHED WHITE)
18. PAVEMENT MARKING PAINT 4-INCH (YELLOW)
19. PAVEMENT MARKING EPOXY 4-INCH (WHITE)
21. PAVEMENT MARKING EPOXY 4-INCH (YELLOW)
22. TEMPORARY PAVEMENT MARKING REMOVABLE TAPE 4-INCH (DASHED WHITE)
24. PAVEMENT MARKING STOP LINE EPOXY 18-INCH
25. PAVEMENT MARKING GROOVED WET REFLECTIVE TAPE 4-INCH (DASHED WHITE)

LEGEND

- WORK ZONE
- TEMPORARY PAVEMENT
- TEMPORARY CROSSWALK ACCESS
- TEMPORARY BUS STOP PAD
- TEMPORARY PAVEMENT TO BE USED IN FUTURE STAGES
- SIGNAL CONTROLLED INTERSECTION
- TRAFFIC FLOW ARROW
- DRUM WITH/WITHOUT LIGHT, TYPE C
- FLEXIBLE TUBULAR MARKERS
- SIGN MOUNTED ON POST
- SIGN MOUNTED ON TEMPORARY SUPPORT
- TYPE III BARRICADE WITH/WITHOUT SIGN
- REMOVING PAVEMENT MARKINGS

TRAFFIC CONTROL NOTES

-THE EXACT NUMBER, LOCATION, AND SPACING OF ALL SIGNS AND DEVICES SHALL BE ADJUSTED TO FIT FIELD CONDITIONS AS APPROVED BY THE ENGINEER.
-ALL SIGNS ARE 48" X 48" UNLESS OTHERWISE NOTED.
-ANY SIGNS, TEMPORARY OR EXISTING, WHICH CONFLICT WITH TRAFFIC CONTROL "IN-USE" SHALL BE REMOVED OR COVERED AS NEEDED AND AS APPROVED BY THE ENGINEER.
-SIGNS DESIGNATED AS "WO" ARE THE SAME AS "W" EXCEPT THE BACKGROUND IS ORANGE.
-SEE SPECIAL PROVISIONS FOR ADDITIONAL TRAFFIC/STAGING REQUIREMENTS.
-PAVEMENT MARKING WHICH MAY CONFLICT WITH TRAFFIC CONTROL "IN-USE" SHALL BE REMOVED AS DIRECTED BY THE ENGINEER.
-ALL DRUM SPACING IS 50', UNLESS NOTED OTHERWISE

MOVE/REMOVE SIGN LEGEND



R1-1
30" X 30"
EXISTING SIGN TO BE REMOVED AT END OF STAGE



R1-1
30" X 30"
EXISTING SIGN TO BE REMOVED BEFORE STAGE

NOTES

ALL SIGNS MOVED DURING STAGE 4
TO BE REMOVED AT END OF STAGE

2

2

W. CLINTON

N

U/C

NOTE:

ALL EXISTING PAVEMENT MARKINGS TO REMAIN IN STAGE 1 UNLESS OTHERWISE SPECIFIED.

11'

11'

11'

11'

11'

11'

50' (TYP)

25'(TYP)

135+00

136+00

137+00

138+00

139+00

MH

STH 181 / 76TH ST

MATCH LINE STA. 140+00

150'

FOR LANE CLOSURE
USE STANDARD DETAIL DRAWING
"TRAFFIC CONTROL SINGLE LANE CLOSURE, NON-FREEWAY/EXPRESSWAY"

LEGEND

- WORK ZONE
- TEMPORARY PAVEMENT
- TEMPORARY CROSSWALK ACCESS
- TEMPORARY BUS STOP PAD
- TEMPORARY PAVEMENT TO BE USED IN FUTURE STAGES
- SIGNAL CONTROLLED INTERSECTION
- TRAFFIC FLOW ARROW
- DRUM WITH/WITHOUT LIGHT, TYPE C
- FLEXIBLE TUBULAR MARKERS
- SIGN MOUNTED ON POST
- SIGN MOUNTED ON TEMPORARY SUPPORT
- TYPE III BARRICADE WITH/WITHOUT SIGN
- REMOVING PAVEMENT MARKINGS

PROJECT NO: 2140-08-73	HWY: STH 181-N. 76TH ST.	COUNTY: MILWAUKEE	CONSTRUCTION STAGING - STAGE 1	SHEET 382	E

2

PAVEMENT MARKING LEGEND	
(11)	TEMPORARY PAVEMENT MARKING CHANNELIZING 8-INCH
(15)	TEMPORARY PAVEMENT MARKING 4-INCH (DOUBLE YELLOW)

N

NOTE:

ALL EXISTING PAVEMENT MARKINGS TO REMAIN IN STAGE 1 UNLESS OTHERWISE SPECIFIED.

RUINS

EXISTING SIGN TO BE MOVED

SPEED LIMIT 40 — R2-1 24" X 30" — (1-3)

SAWING CONCRETE PAVEMENT FULL DEPTH REQ'D

REMOVE CURB AND GUTTER INSTALL TEMPORARY PAVEMENT

(1-5) R4-7 24" X 30"

MATCH LINE STA. 140+00

MATCH LINE STA. 146+00

50'(TYP)

10'

10'

+75.0 14.0'LT

(15)

25'(TYP)

+41.8 13.9'LT

(11)

+73.0 2.1'LT

140+00

141+00

142+00

143+00

144+00

145+00

146

11'

10'

+75.0 2.2'LT

50'(TYP)

+96.4 2.2'LT

STH 181 / 76TH ST

LANE CLOSED — R11-2(MOD) 48" X 30" — R4-7 24" X 30"

(1-6) R3-4 24" X 24"

MOVE SIGN TO HERE

SPEED LIMIT 40 — R2-1 24" X 30" — (1-3)

LEGEND

- WORK ZONE
- TEMPORARY PAVEMENT
- TEMPORARY CROSSWALK ACCESS
- TEMPORARY BUS STOP PAD
- TEMPORARY PAVEMENT TO BE USED IN FUTURE STAGES
- SIGNAL CONTROLLED INTERSECTION
- TRAFFIC FLOW ARROW
- DRUM WITH/WITHOUT LIGHT, TYPE C
- FLEXIBLE TUBULAR MARKERS
- SIGN MOUNTED ON POST
- SIGN MOUNTED ON TEMPORARY SUPPORT
- TYPE III BARRICADE WITH/WITHOUT SIGN
- REMOVING PAVEMENT MARKINGS

PROJECT NO: 2140-08-73	HWY: STH 181-N. 76TH ST.	COUNTY: MILWAUKEE	CONSTRUCTION STAGING - STAGE 1	SHEET 383	E

2

PAVEMENT MARKING LEGEND

- (9) TEMPORARY PAVEMENT MARKING WORDS (TYP)
- (11) TEMPORARY PAVEMENT MARKING CHANNELIZING 8-INCH
- (15) TEMPORARY PAVEMENT MARKING 4-INCH (DOUBLE YELLOW)

NOTE:

ALL EXISTING PAVEMENT MARKINGS TO REMAIN IN STAGE 1 UNLESS OTHERWISE SPECIFIED.

N

EXISTING SIGN TO BE MOVED

2-8

CALUMET RD
7600 N
M1-94A

MOVE SIGN TO HERE

2-8

CALUMET RD
7600 N

LEFT TURN LANE
R3-55L
24" X 30"

REMOVE CURB AND GUTTER
INSTALL TEMPORARY PAVEMENT

SAWING CONCRETE PAVEMENT
FULL DEPTH REQ'D

MATCH LINE STA. 146+00

MATCH LINE STA. 152+00

10'
10'

25'(TYP)

+41.2
2.1'LT

15

146+00
147+00
148+00
149+00
150+00
151+00
152

50'(TYP)

11'
10'

STH 181 / 76TH ST

25'(TYP)

+80.1
9.0'LT

11

9

10'
10'
10'

110'

100'

2-4

EXISTING SIGN TO BE MOVED

W3-3
36" X 36"

2-4

MOVE SIGN TO HERE

W3-3
36" X 36"

LEFT TURN LANE
R3-55L
24" X 30"

LEGEND

- WORK ZONE
- TEMPORARY PAVEMENT
- TEMPORARY CROSSWALK ACCESS
- TEMPORARY BUS STOP PAD
- TEMPORARY PAVEMENT TO BE USED IN FUTURE STAGES
- SIGNAL CONTROLLED INTERSECTION
- TRAFFIC FLOW ARROW
- DRUM WITH/WITHOUT LIGHT, TYPE C
- FLEXIBLE TUBULAR MARKERS
- SIGN MOUNTED ON POST
- SIGN MOUNTED ON TEMPORARY SUPPORT
- TYPE III BARRICADE WITH/WITHOUT SIGN
- REMOVING PAVEMENT MARKINGS

PROJECT NO: 2140-08-73	HWY: STH 181-N. 76TH ST.	COUNTY: MILWAUKEE	CONSTRUCTION STAGING - STAGE 1	SHEET 384	E

2

PAVEMENT MARKING LEGEND

- (7) TEMPORARY PAVEMENT MARKING ARROWS (TYP)
- (9) TEMPORARY PAVEMENT MARKING WORDS (TYP)
- (11) TEMPORARY PAVEMENT MARKING CHANNELIZING 8-INCH
- (13) TEMPORARY PAVEMENT MARKING STOP LINE 18-INCH
- (15) TEMPORARY PAVEMENT MARKING 4-INCH (DOUBLE YELLOW)

NOTE:

ALL EXISTING PAVEMENT MARKINGS TO REMAIN IN STAGE 1 UNLESS OTHERWISE SPECIFIED.

ROAD WORK AHEAD W20-1

END ROAD WORK G20-2A 48" X 24"

+14.2 186' LT

+31.7 109.1' LT

+39.5 65.9' LT

+69.1 46.4' LT

+67.4 9.0' RT

+40.9 9.0' RT

+40.5 9.0' RT

+80.4 5.5' RT

250'

50'

100'

110'

25' (TYP)

50' (TYP)

10'

11'

11+00 C.

R4-7 24" X 30"

3-2

3-12

LEFT TURN LANE R3-55L 24" X 30"

SAWING CONCRETE PAVEMENT FULL DEPTH REO'D

REMOVE CURB AND GUTTER INSTALL TEMPORARY PAVEMENT

MATCH LINE STA. 152+00

MATCH LINE STA. 158+00

153+00

154+00

155+00

156+00

157+00

158

STH 181 / 76TH ST

LANE CLOSED R11-2(MOD) 48" X 30"

REMOVE CURB AND GUTTER INSTALL TEMPORARY PAVEMENT

EXISTING SIGN TO BE MOVED

3-16

SPEED LIMIT 40 R2-1 24" X 30"

MOVE SIGN TO HERE

3-19

W3-3 36" X 36"

CALUMET RD.

END ROAD WORK G20-2A 48" X 24"

ROAD WORK AHEAD W20-1

LEGEND

- WORK ZONE
- TEMPORARY PAVEMENT
- TEMPORARY CROSSWALK ACCESS
- TEMPORARY BUS STOP PAD
- TEMPORARY PAVEMENT TO BE USED IN FUTURE STAGES
- SIGNAL CONTROLLED INTERSECTION
- TRAFFIC FLOW ARROW
- DRUM WITH/WITHOUT LIGHT, TYPE C
- FLEXIBLE TUBULAR MARKERS
- SIGN MOUNTED ON POST
- SIGN MOUNTED ON TEMPORARY SUPPORT
- TYPE III BARRICADE WITH/WITHOUT SIGN
- REMOVING PAVEMENT MARKINGS

PROJECT NO: 2140-08-73	HWY: STH 181-N. 76TH ST.	COUNTY: MILWAUKEE	CONSTRUCTION STAGING - STAGE 1	SHEET E

FILE NAME : s:\@sai\051--100\089\099\micros\design\0873\026004_s1.dgn PLOT DATE : 7/30/2007 PLOT BY : $$...plotuser...$$ PLOT NAME : PLOT SCALE : $$.....plotscale.....$$ WISDOT/CADDS SHEET 42

2

PAVEMENT MARKING LEGEND

(11) TEMPORARY PAVEMENT MARKING CHANNELIZING 8-INCH

(15) TEMPORARY PAVEMENT MARKING 4-INCH (DOUBLE YELLOW)

NOTE:

ALL EXISTING PAVEMENT MARKINGS TO REMAIN IN STAGE 1 UNLESS OTHERWISE SPECIFIED.

MOVE SIGN TO HERE

4-2 — CALUMET RD 7600 N — M1-94A

REMOVE CURB AND GUTTER
INSTALL TEMPORARY PAVEMENT

SAWING CONCRETE PAVEMENT
FULL DEPTH REQ'D

LEFT TURN LANE
R3-55L
24" X 30"

SAWING CONCRETE PAVEMENT
FULL DEPTH REQ'D

MATCH LINE STA. 158+00

159+00

160+00

161+00

162+00

163+00

MATCH LINE STA. 164+00

10'

10'

(15)

10'

10'

(11)

STH 181 / 76TH ST

25' (TYP)

+13.0
13.6' LT

25' (TYP)

11'

10'

+46.7
2.1' LT

11'

10'

+92.8
1.6' LT

50' (TYP)

LANE CLOSED
R11-2(MOD)
48" X 30"

R4-7
24" X 30"

REMOVE CURB AND GUTTER
INSTALL TEMPORARY PAVEMENT

EXISTING SIGN TO BE MOVED

4-2 — CALUMET RD 7600 N — M1-94A

LEGEND

- WORK ZONE
- TEMPORARY PAVEMENT
- TEMPORARY CROSSWALK ACCESS
- TEMPORARY BUS STOP PAD
- TEMPORARY PAVEMENT TO BE USED IN FUTURE STAGES
- SIGNAL CONTROLLED INTERSECTION
- TRAFFIC FLOW ARROW
- DRUM WITH/WITHOUT LIGHT, TYPE C
- FLEXIBLE TUBULAR MARKERS
- SIGN MOUNTED ON POST
- SIGN MOUNTED ON TEMPORARY SUPPORT
- TYPE III BARRICADE WITH/WITHOUT SIGN
- REMOVING PAVEMENT MARKINGS

PROJECT NO: 2140-08-73	HWY: STH 181-N. 76TH ST.	COUNTY: MILWAUKEE	CONSTRUCTION STAGING - STAGE 1	SHEET 386	E

2

PAVEMENT MARKING LEGEND

(11) TEMPORARY PAVEMENT MARKING CHANNELIZING 8-INCH

(15) TEMPORARY PAVEMENT MARKING 4-INCH (DOUBLE YELLOW)

N

NOTE:

ALL EXISTING PAVEMENT MARKINGS TO REMAIN IN STAGE 1 UNLESS OTHERWISE SPECIFIED.

CANOPY

A/C

MOVE SIGN TO HERE

5-3 SPEED LIMIT 40 R2-1 24" X 30"

EXISTING SIGN TO BE MOVED

5-3 SPEED LIMIT 40 R2-1 24" X 30"

5-7 R4-7 24" X 30"

5-12 R4-7 24" X 30"

SAWING CONCRETE PAVEMENT FULL DEPTH REQ'D

REMOVE CURB AND GUTTER INSTALL TEMPORARY PAVEMENT

STH 181 / 76TH ST

MATCH LINE STA. 164+00

MATCH LINE STA. 170+00

25' (TYP)

50' (TYP)

10'

11'

+32.9 1.6' LT

+10.0 1.9' LT

165+00

166+00

167+00

168+00

169+00

LEFT TURN LANE R3-55L 24" X 30"

LANE CLOSED R11-2(MOD) 48" X 30"

R4-7 24" X 30"

MOVE SIGN TO HERE

5-4 SPEED LIMIT 40 R2-1 24" X 30"

EXISTING SIGN TO BE MOVED

5-4 SPEED LIMIT 40 R2-1 24" X 30"

LEGEND

- WORK ZONE
- TEMPORARY PAVEMENT
- TEMPORARY CROSSWALK ACCESS
- TEMPORARY BUS STOP PAD
- TEMPORARY PAVEMENT TO BE USED IN FUTURE STAGES
- SIGNAL CONTROLLED INTERSECTION
- TRAFFIC FLOW ARROW
- DRUM WITH/WITHOUT LIGHT, TYPE C
- FLEXIBLE TUBULAR MARKERS
- SIGN MOUNTED ON POST
- SIGN MOUNTED ON TEMPORARY SUPPORT
- TYPE III BARRICADE WITH/WITHOUT SIGN
- REMOVING PAVEMENT MARKINGS

PROJECT NO: 2140-08-73	HWY: STH 181-N. 76TH ST.	COUNTY: MILWAUKEE	CONSTRUCTION STAGING - STAGE 1	SHEET 387	E

2

N

MATCH LINE STA. 170+00

MATCH LINE STA. 176+00

LOLITA AVE

STH 181 / 76TH ST

170+00 171+00 172+00 173+00 174+00 175+00 176+00

ROAD WORK AHEAD
W20-1

250'

END ROAD WORK
G20-2A
48" X 24"

MOVE SIGN TO HERE

6-3

SPEED LIMIT 40
R2-1
24" X 30"

EXISTING SIGN TO BE MOVED

6-3

SPEED LIMIT 40
R2-1
24" X 30"

REMOVE CURB AND GUTTER
INSTALL TEMPORARY PAVEMENT

SAWING CONCRETE PAVEMENT
FULL DEPTH REQ'D

LEFT TURN LANE
R3-55L
24" X 30"

15

25' (TYP)

10'

10'

50' (TYP)

25' (TYP)

10'

10'

10'

9

11

7

13

+66.8
1.9' LT

+71.5
2.3' LT

110'

100'

6-7

6-8

LANE CLOSED
R11-2(MOD)
48" X 30"

R4-7
24" X 30"

100'

110'

EXISTING SIGN TO BE MOVED

6-25

W3-3
36" X 36"

MOVE SIGN TO HERE

6-25

W3-3
36" X 36"

LEFT TURN LANE
R3-55L
24" X 30"

EXISTING SIGN TO BE MOVED

6-1

Bradley Rd
8000 N
M1-94A

MOVE SIGN TO HERE

6-1

Bradley Rd
8000 N
M1-94A

6-20

R4-7
24" X 30"

6-21

W3-3
24" X 24"

PAVEMENT MARKING LEGEND

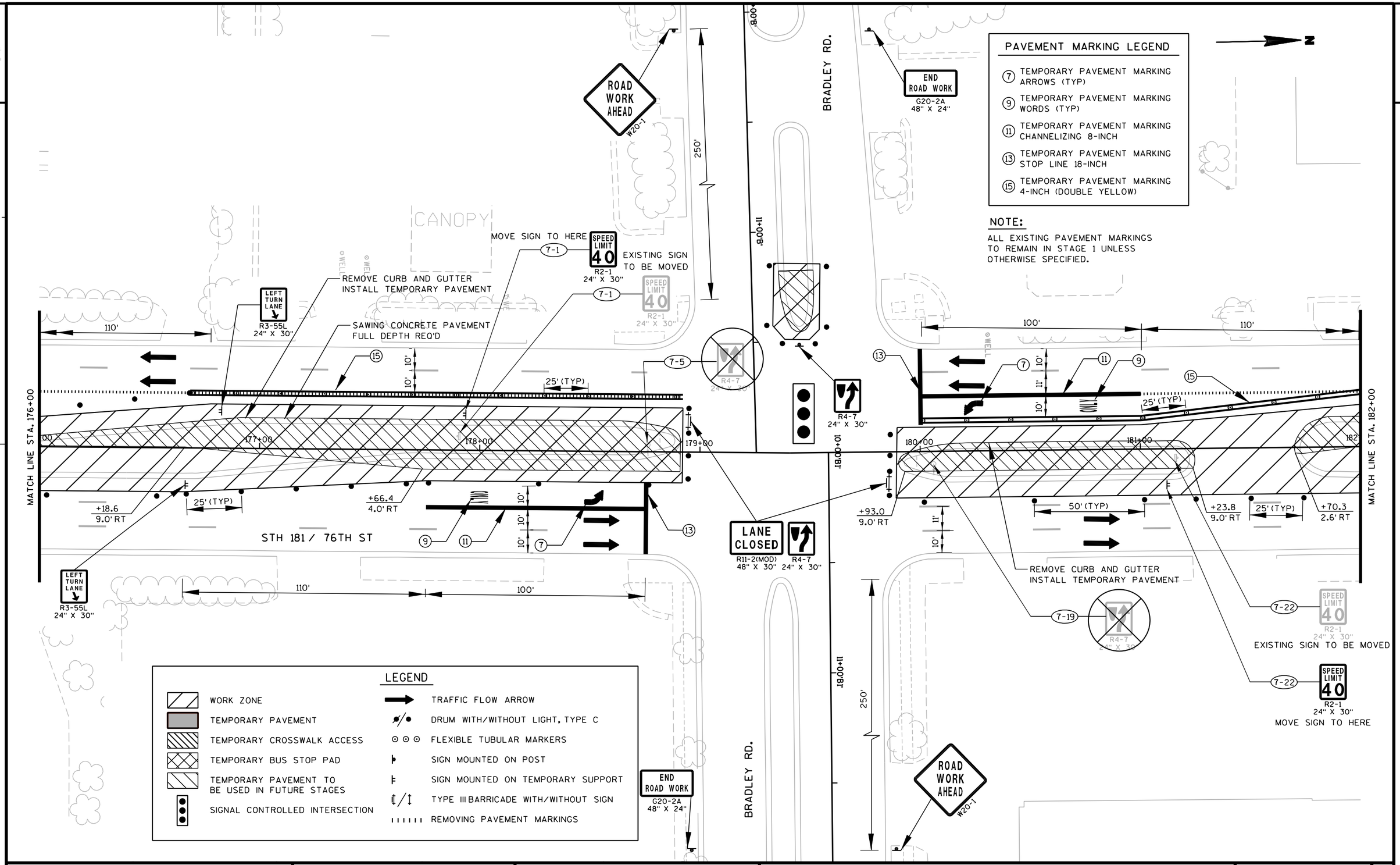
- (7) TEMPORARY PAVEMENT MARKING ARROWS (TYP)
- (9) TEMPORARY PAVEMENT MARKING WORDS (TYP)
- (11) TEMPORARY PAVEMENT MARKING CHANNELIZING 8-INCH
- (13) TEMPORARY PAVEMENT MARKING STOP LINE 18-INCH
- (15) TEMPORARY PAVEMENT MARKING 4-INCH (DOUBLE YELLOW)

NOTE:

LEGEND

- WORK ZONE
- TEMPORARY PAVEMENT
- TEMPORARY CROSSWALK ACCESS
- TEMPORARY BUS STOP PAD
- TEMPORARY PAVEMENT TO BE USED IN FUTURE STAGES
- SIGNAL CONTROLLED INTERSECTION
- TRAFFIC FLOW ARROW
- DRUM WITH/WITHOUT LIGHT, TYPE C
- FLEXIBLE TUBULAR MARKERS
- SIGN MOUNTED ON POST
- SIGN MOUNTED ON TEMPORARY SUPPORT
- TYPE III BARRICADE WITH/WITHOUT SIGN
- REMOVING PAVEMENT MARKINGS

PROJECT NO: 2140-08-73	HWY: STH 181-N. 76TH ST.	COUNTY: MILWAUKEE	CONSTRUCTION STAGING - STAGE 1	SHEET 388	E



PROJECT NO: 2140-08-73	HWY: STH 181-N. 76TH ST.	COUNTY: MILWAUKEE	CONSTRUCTION STAGING - STAGE 1	SHEET 389 E

MOVE SIGNS TO HERE

8-3 JCT M2-1 21" X 15"

8-4 Bradley Rd 8000 N M1-94A

EXISTING SIGNS TO BE MOVED

8-3 JCT M2-1 21" X 15"

8-4 Bradley Rd 8000 N M1-94A

ROAD WORK AHEAD W20-1

250'

8-6 R4-7 24" X 30"

8-5 R3-2 24" X 24"

END ROAD WORK G20-2A 48" X 24"

TOWER AVE.

REMOVE CURB AND GUTTER
INSTALL TEMPORARY PAVEMENT

SAWING CONCRETE PAVEMENT
FULL DEPTH REQ'D

LEFT TURN LANE R3-55L 24" X 30"

STH 181 / 76TH ST

15

25' (TYP)

10'

10'

MATCH LINE STA. 182+00

183+00

184+00

185+00

186+00

POT 12+00.00'T'

187+00

188

MATCH LINE STA. 188+00

115'

13

7

9

11

50' (TYP)

+53.0
4.7' RT

25' (TYP)

10'

10'

10'

**

11

9

7

13

50' (TYP)

LEFT TURN LANE R3-55L 24" X 30"

110'

100'

LANE CLOSED R11-2(MOD) 48" X 30"

R4-7 24" X 30"

8-11

SPEED LIMIT 40 R2-1 24" X 30"

8-17

EXISTING SIGN TO BE MOVED

MOVE SIGN TO HERE

8-17

SPEED LIMIT 40 R2-1 24" X 30"

PAVEMENT MARKING LEGEND

7	TEMPORARY PAVEMENT MARKING ARROWS (TYP)
9	TEMPORARY PAVEMENT MARKING WORDS (TYP)
11	TEMPORARY PAVEMENT MARKING CHANNELIZING 8-INCH
13	TEMPORARY PAVEMENT MARKING STOP LINE 18-INCH
15	TEMPORARY PAVEMENT MARKING 4-INCH (DOUBLE YELLOW)

** = AREA TO BE MAINTAINED AT ALL TIMES FOR TURNING MOVEMENTS EXCEPT FOR SPECIFIC WORK OPERATIONS IN THIS AREA

NOTE:

ALL EXISTING PAVEMENT MARKINGS TO REMAIN IN STAGE 1 UNLESS OTHERWISE SPECIFIED.

LEGEND

- WORK ZONE
- TEMPORARY PAVEMENT
- TEMPORARY CROSSWALK ACCESS
- TEMPORARY BUS STOP PAD
- TEMPORARY PAVEMENT TO BE USED IN FUTURE STAGES
- SIGNAL CONTROLLED INTERSECTION
- TRAFFIC FLOW ARROW
- DRUM WITH/WITHOUT LIGHT, TYPE C
- FLEXIBLE TUBULAR MARKERS
- SIGN MOUNTED ON POST
- SIGN MOUNTED ON TEMPORARY SUPPORT
- TYPE III BARRICADE WITH/WITHOUT SIGN
- REMOVING PAVEMENT MARKINGS

PROJECT NO: 2140-08-73	HWY: STH 181-N. 76TH ST.	COUNTY: MILWAUKEE	CONSTRUCTION STAGING - STAGE 1	SHEET 390	E

2

PAVEMENT MARKING LEGEND

(1) TEMPORARY PAVEMENT MARKING 4-INCH (DASHED WHITE)

(3) TEMPORARY PAVEMENT MARKING 4-INCH (WHITE)

(5) TEMPORARY PAVEMENT MARKING 4-INCH (YELLOW)

(15) TEMPORARY PAVEMENT MARKING 4-INCH (DOUBLE YELLOW)

N

MOVE SIGN TO HERE

9-2

W3-3
36" X 36"

EXISTING SIGN TO BE MOVED

9-2

W3-3
36" X 36"

EXISTING SIGN TO BE MOVED

9-6

W5-52L
12" X 36"

9-6

W5-52L
12" X 36"
MOVE SIGN TO HERE

320'

(15)

(1) *

25' (TYP)

10'

10'

10'

(5)

(3)

MATCH LINE STA. 188+00

188+00

189+00

190+00

191+00

192+00

193+00

194

MATCH LINE STA. 194+00

50' (TYP)

11'

10'

STH 181 / 76TH ST

B-40-381

LEFT TURN LANE

R3-55L
24" X 30"

MOVE SIGN TO HERE

9-5

EXISTING SIGN TO BE MOVED

W5-52L
12" X 36"

9-5

W5-52L
12" X 36"

NOTE:

ALL EXISTING PAVEMENT MARKINGS TO REMAIN IN STAGE 1 UNLESS OTHERWISE SPECIFIED.

* = OFFSET 1' FROM EXISTING PAVEMENT MARKING

LEGEND

- WORK ZONE
- TEMPORARY PAVEMENT
- TEMPORARY CROSSWALK ACCESS
- TEMPORARY BUS STOP PAD
- TEMPORARY PAVEMENT TO BE USED IN FUTURE STAGES
- SIGNAL CONTROLLED INTERSECTION
- TRAFFIC FLOW ARROW
- DRUM WITH/WITHOUT LIGHT, TYPE C
- FLEXIBLE TUBULAR MARKERS
- SIGN MOUNTED ON POST
- SIGN MOUNTED ON TEMPORARY SUPPORT
- TYPE III BARRICADE WITH/WITHOUT SIGN
- REMOVING PAVEMENT MARKINGS

2

PAVEMENT MARKING LEGEND

(1) TEMPORARY PAVEMENT MARKING 4-INCH (DASHED WHITE)

(15) TEMPORARY PAVEMENT MARKING 4-INCH (DOUBLE YELLOW)

NOTE:

ALL EXISTING PAVEMENT MARKINGS TO REMAIN IN STAGE 1 UNLESS OTHERWISE SPECIFIED.

* = OFFSET 1' FROM EXISTING PAVEMENT MARKING

N

EXISTING SIGN TO BE MOVED

10-4

W3-3
36" X 36"

15

1 *

25' (TYP)

10'
10'
10'

MATCH LINE STA. 194+00

195+00

196+00

197+00

198+00

199+00

200

MATCH LINE STA. 200+00

50' (TYP)

10' - 11'

STH 181 / 76TH ST

MOVE SIGN TO HERE

10-4

W3-3
36" X 36"

EXISTING SIGN TO BE MOVED

SPEED LIMIT 40
R2-1
24" X 30"

10-9

10-9

SPEED LIMIT 40
R2-1
24" X 30"
MOVE SIGN TO HERE

LEGEND

- WORK ZONE
- TEMPORARY PAVEMENT
- TEMPORARY CROSSWALK ACCESS
- TEMPORARY BUS STOP PAD
- TEMPORARY PAVEMENT TO BE USED IN FUTURE STAGES
- SIGNAL CONTROLLED INTERSECTION
- TRAFFIC FLOW ARROW
- DRUM WITH/WITHOUT LIGHT, TYPE C
- FLEXIBLE TUBULAR MARKERS
- SIGN MOUNTED ON POST
- SIGN MOUNTED ON TEMPORARY SUPPORT
- TYPE III BARRICADE WITH/WITHOUT SIGN
- REMOVING PAVEMENT MARKINGS

PROJECT NO: 2140-08-73	HWY: STH 181-N. 76TH ST.	COUNTY: MILWAUKEE	CONSTRUCTION STAGING - STAGE 1	SHEET 392	E

2

PAVEMENT MARKING LEGEND

1. TEMPORARY PAVEMENT MARKING 4-INCH (DASHED WHITE)
7. TEMPORARY PAVEMENT MARKING ARROWS (TYP)
9. TEMPORARY PAVEMENT MARKING WORDS (TYP)
11. TEMPORARY PAVEMENT MARKING CHANNELIZING 8-INCH
13. TEMPORARY PAVEMENT MARKING STOP LINE 18-INCH
15. TEMPORARY PAVEMENT MARKING 4-INCH (DOUBLE YELLOW)

NOTE:

ALL EXISTING PAVEMENT MARKINGS TO REMAIN IN STAGE 1 UNLESS OTHERWISE SPECIFIED.

* = OFFSET 1' FROM EXISTING PAVEMENT MARKING

N 69°22'38" E

ROAD WORK AHEAD
W20-1

11-14
R4-7
24" X 30"

250'

11-12
W11-2
30" X 30"
EXISTING SIGN TO BE MOVED

MOVE SIGN TO HERE
11-12
W11-2
30" X 30"

MOVE SIGN TO HERE
11-2
W3-3
36" X 36"

EXISTING SIGN TO BE MOVED
11-8
SPEED LIMIT 40
R2-1
24" X 30"

15
1 *

10'
25'(TYP)
7.5'(TYP)

+44.0
14.3' LT

STH 181 / 76TH ST

+54.1
10.7' LT

MATCH LINE STA. 200+00

200+00
201+00
202+00
203+00
204+00
205+00
206

+54.1
4.3' LT

LANE CLOSED
R11-2(MOD)
48" X 30"

12.5'(TYP)

50'(TYP)
11'
10'

+54.1
3.8' LT

10'
10'
10'

9
11
7

R4-7
24" X 30"
LANE CLOSED
R11-2(MOD)
48" X 30"

13

110'
100'

EXISTING SIGN TO BE MOVED
11-2
W3-3
36" X 36"
11-5
W11-2
30" X 30"

WO1-6
48" X 24"

LEFT TURN LANE
R3-55L
24" X 30"

MOVE SIGN TO HERE
SPEED LIMIT 40
11-8
R2-1
24" X 30"

11-5
W11-2
30" X 30"
MOVE SIGN TO HERE

250'

END ROAD WORK
G20-2A
48" X 24"

DEAN RD.

S 69°50'38" W

MATCH LINE STA. 206+00

LEGEND

- WORK ZONE
- TEMPORARY PAVEMENT
- TEMPORARY CROSSWALK ACCESS
- TEMPORARY BUS STOP PAD
- TEMPORARY PAVEMENT TO BE USED IN FUTURE STAGES
- SIGNAL CONTROLLED INTERSECTION
- TRAFFIC FLOW ARROW
- DRUM WITH/WITHOUT LIGHT, TYPE C
- FLEXIBLE TUBULAR MARKERS
- SIGN MOUNTED ON POST
- SIGN MOUNTED ON TEMPORARY SUPPORT
- TYPE III BARRICADE WITH/WITHOUT SIGN
- REMOVING PAVEMENT MARKINGS

PROJECT NO: 2140-08-73	HWY: STH 181-N. 76TH ST.	COUNTY: MILWAUKEE	CONSTRUCTION STAGING - STAGE 1	SHEET 393 E

2

PAVEMENT MARKING LEGEND

(1)	TEMPORARY PAVEMENT MARKING 4-INCH (DASHED WHITE)
(7)	TEMPORARY PAVEMENT MARKING ARROWS (TYP)
(9)	TEMPORARY PAVEMENT MARKING WORDS (TYP)
(11)	TEMPORARY PAVEMENT MARKING CHANNELIZING 8-INCH
(13)	TEMPORARY PAVEMENT MARKING STOP LINE 18-INCH
(15)	TEMPORARY PAVEMENT MARKING 4-INCH (DOUBLE YELLOW)

NOTE:

ALL EXISTING PAVEMENT MARKINGS TO REMAIN IN STAGE 1 UNLESS OTHERWISE SPECIFIED.

* = OFFSET 1' FROM EXISTING PAVEMENT MARKING

END ROAD WORK
G20-2A
48" X 24"

JCT 100
M 2-1
21" X 15"
M1-6
24" X 24"
J1-1
24" X 39"

12-10

EXISTING SIGNS TO BE MOVED

12-11

Brown Deer Rd
8800 N
M1-94A

LEFT TURN LANE
R3-55L
24" X 30"

100'

110'

25' (TYP)

10'

MATCH LINE STA. 206+00

207+00

208+00

209+00

210+00

211+00

212

MATCH LINE STA. 212+00

LANE CLOSED
R11-2(MOD)
48" X 30"

R4-7
24" X 30"

DEAN RD

250'

ROAD WORK AHEAD
W20-1

12-7

R4-7
24" X 30"

MOVE SIGN TO HERE

12-8

W11-2
30" X 30"

EXISTING SIGN TO BE MOVED

12-8

W11-2
30" X 30"

10' - 11"

50' (TYP)

STH 181 / 76TH ST

JCT 100
M 2-1
21" X 15"
M1-6
24" X 24"
J1-1
24" X 39"

12-10

MOVE SIGNS TO HERE

12-11

Brown Deer Rd
8800 N
M1-94A

LEGEND

- WORK ZONE
- TEMPORARY PAVEMENT
- TEMPORARY CROSSWALK ACCESS
- TEMPORARY BUS STOP PAD
- TEMPORARY PAVEMENT TO BE USED IN FUTURE STAGES
- SIGNAL CONTROLLED INTERSECTION
- TRAFFIC FLOW ARROW
- DRUM WITH/WITHOUT LIGHT, TYPE C
- FLEXIBLE TUBULAR MARKERS
- SIGN MOUNTED ON POST
- SIGN MOUNTED ON TEMPORARY SUPPORT
- TYPE III BARRICADE WITH/WITHOUT SIGN
- REMOVING PAVEMENT MARKINGS

PROJECT NO: 2140-08-73	HWY: STH 181-N. 76TH ST.	COUNTY: MILWAUKEE	CONSTRUCTION STAGING - STAGE 1	SHEET	E

FILE NAME : s:\@sai\051--100\089\099\micros\design\0873\026013_s1.dgn PLOT DATE : 7/30/2007 PLOT BY : $$...plotuser...$$ PLOT NAME : PLOT SCALE : $$.....plotscale.....$$ WISDOT/CADDS SHEET 42

2

2

PAVEMENT MARKING LEGEND

(1) TEMPORARY PAVEMENT MARKING 4-INCH (DASHED WHITE)

(11) TEMPORARY PAVEMENT MARKING CHANNELIZING 8-INCH

(15) TEMPORARY PAVEMENT MARKING 4-INCH (DOUBLE YELLOW)

NOTE:

ALL EXISTING PAVEMENT MARKINGS TO REMAIN IN STAGE 1 UNLESS OTHERWISE SPECIFIED.

EXISTING SIGN TO BE MOVED

13-2

W3-3
36" X 36"

MOVE SIGN TO HERE

13-2

W3-3
36" X 36"

LANE CLOSED
R11-2(MOD)
48" X 30"

R4-7
24" X 30"

LEFT TURN LANE
R3-55L
24" X 30"

EXISTING SIGN TO BE MOVED

13-18

100 M1-6 24" X 24"

M 5-2R 21" X 21"

J13-1
24" X 45"

MATCH LINE STA. 212+00

MATCH LINE STA 218+00

00

213+00

214+00

215+00

216+00

217+00

218+00

11'

11'

10'

25' (TYP)

+73.3
6.4' LT

+03.3
14.0' LT

+0.0 'TSE'
1.0' RT

+0.0 'TSE'
0.0' LT

+45.0 'TSE'
12.0' LT

25' (TYP)

1+00 'TSW'

+69.1
13.0' RT

+32.0
13.0' RT

50' (TYP)

STH 181 / 76TH ST

EXISTING SIGN TO BE MOVED

13-13

SPEED LIMIT 45
R2-1
24" X 30"

MOVE SIGN TO HERE

13-13

SPEED LIMIT 45
R2-1
24" X 30"

MOVE SIGN TO HERE

13-18

100 M1-6 24" X 24"

M 5-2R 21" X 21"

J13-1
24" X 45"

EXIT
E5-1
60" X 48"

250'

76TH PLACE

ROAD WORK AHEAD
W20-1

END ROAD WORK
G20-2A
48" X 24"

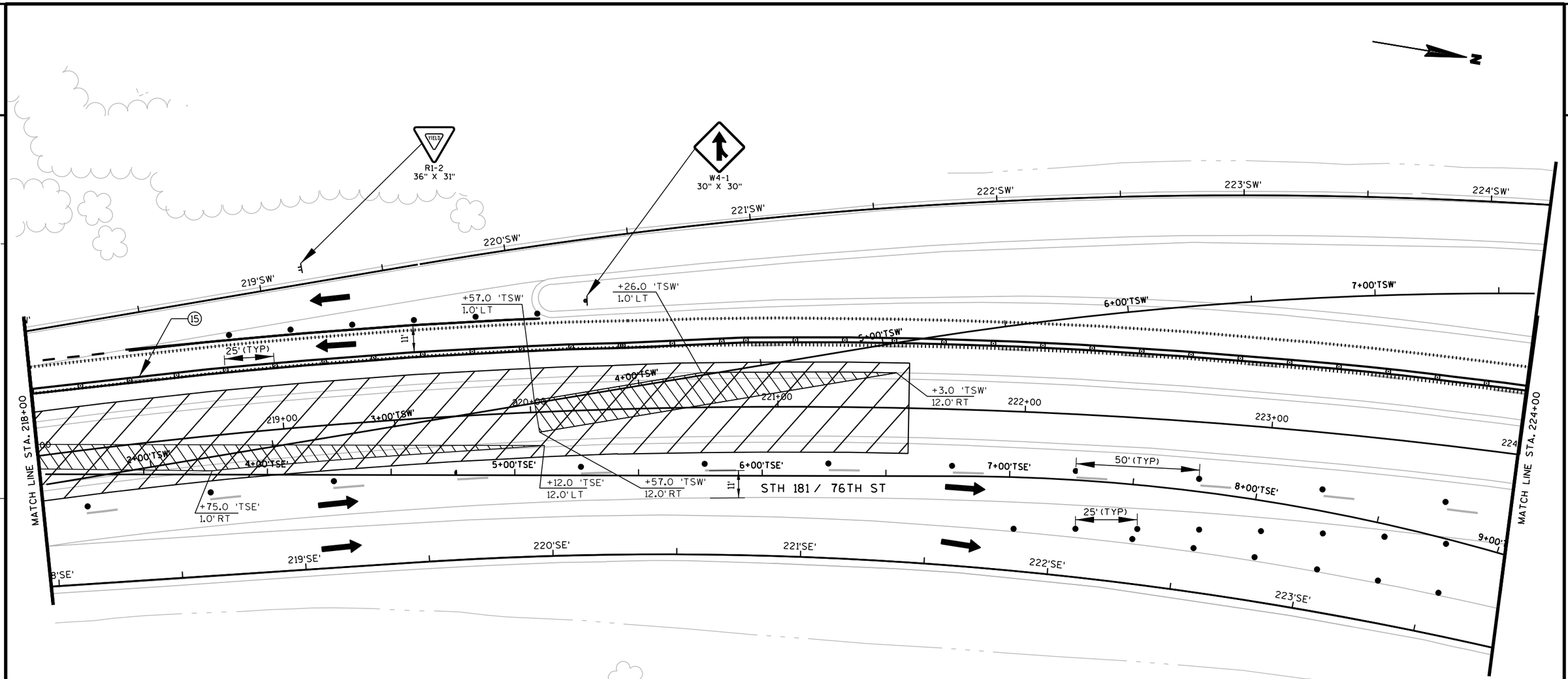
LEGEND

- WORK ZONE
- TEMPORARY PAVEMENT
- TEMPORARY CROSSWALK ACCESS
- TEMPORARY BUS STOP PAD
- TEMPORARY PAVEMENT TO BE USED IN FUTURE STAGES
- SIGNAL CONTROLLED INTERSECTION
- TRAFFIC FLOW ARROW
- DRUM WITH/WITHOUT LIGHT, TYPE C
- FLEXIBLE TUBULAR MARKERS
- SIGN MOUNTED ON POST
- SIGN MOUNTED ON TEMPORARY SUPPORT
- TYPE III BARRICADE WITH/WITHOUT SIGN
- REMOVING PAVEMENT MARKINGS

PROJECT NO: 2140-08-73	HWY: STH 181-N. 76TH ST.	COUNTY: MILWAUKEE	CONSTRUCTION STAGING - STAGE 1	SHEET	E

FILE NAME : s:\@sai\051--100\089\099\micros\design\0873\026014_s1.dgn PLOT DATE : 7/30/2007 PLOT BY : $$...plotuser...$$ PLOT NAME : PLOT SCALE : $$.....plotscale.....$$ WISDOT/CADDS SHEET 42

2



PAVEMENT MARKING LEGEND

(15) TEMPORARY PAVEMENT MARKING 4-INCH (DOUBLE YELLOW)

NOTE:

ALL EXISTING PAVEMENT MARKINGS TO REMAIN IN STAGE 1 UNLESS OTHERWISE SPECIFIED.

LEGEND

- WORK ZONE
- TEMPORARY PAVEMENT
- TEMPORARY CROSSWALK ACCESS
- TEMPORARY BUS STOP PAD
- TEMPORARY PAVEMENT TO BE USED IN FUTURE STAGES
- SIGNAL CONTROLLED INTERSECTION
- TRAFFIC FLOW ARROW
- DRUM WITH/WITHOUT LIGHT, TYPE C
- FLEXIBLE TUBULAR MARKERS
- SIGN MOUNTED ON POST
- SIGN MOUNTED ON TEMPORARY SUPPORT
- TYPE III BARRICADE WITH/WITHOUT SIGN
- REMOVING PAVEMENT MARKINGS

PROJECT NO: 2140-08-73	HWY: STH 181-N. 76TH ST.	COUNTY: MILWAUKEE	CONSTRUCTION STAGING - STAGE 1	SHEET 396	E

2

N

225'SW' 226'SW' 227'SW' 228'SW' 229'SW' 230'SW'

8+00'TSW' 9+00'TSW' 10+00'TSW' 11+00'TSW' 12+00'TSW' 13+00'TSW'

SPEED LIMIT 45 R2-1 24" X 30"

15-3

15

18'

14'

50'(TYP)

MOVE SIGN TO HERE

15-4

SPEED LIMIT 45 R2-1 24" X 30"

225+00 226+00 227+00 228+00 229+00 230+00

MATCH LINE STA. 224+00

MATCH LINE STA. 230+00

STH 181 / 76TH ST

11'

50'(TYP)

25'(TYP)

+53.0 'TSE' 1.0' RT

+9.0 'TSE' 13.0' LT

224'SE' 225'SE' 226'SE' 227'SE' 228'SE' 229'SE'

50'(TYP)

EXISTING SIGN TO BE MOVED

15-4

SPEED LIMIT 45 R2-1 24" X 30"

NOTE:

ALL EXISTING PAVEMENT MARKINGS TO REMAIN IN STAGE 1 UNLESS OTHERWISE SPECIFIED.

PAVEMENT MARKING LEGEND

(15) TEMPORARY PAVEMENT MARKING 4-INCH (DOUBLE YELLOW)

LEGEND

- WORK ZONE
- TEMPORARY PAVEMENT
- TEMPORARY CROSSWALK ACCESS
- TEMPORARY BUS STOP PAD
- TEMPORARY PAVEMENT TO BE USED IN FUTURE STAGES
- SIGNAL CONTROLLED INTERSECTION
- TRAFFIC FLOW ARROW
- DRUM WITH/WITHOUT LIGHT, TYPE C
- FLEXIBLE TUBULAR MARKERS
- SIGN MOUNTED ON POST
- SIGN MOUNTED ON TEMPORARY SUPPORT
- TYPE III BARRICADE WITH/WITHOUT SIGN
- REMOVING PAVEMENT MARKINGS

PROJECT NO: 2140-08-73	HWY: STH 181-N. 76TH ST.	COUNTY: MILWAUKEE	CONSTRUCTION STAGING - STAGE 1	SHEET 397	E

2

231'SW'

232+00'SW'

231+00'SW'

00'TSW'

LEGEND

- WORK ZONE
- TEMPORARY PAVEMENT
- TEMPORARY CROSSWALK ACCESS
- TEMPORARY BUS STOP PAD
- TEMPORARY PAVEMENT TO BE USED IN FUTURE STAGES
- SIGNAL CONTROLLED INTERSECTION
- TRAFFIC FLOW ARROW
- DRUM WITH/WITHOUT LIGHT, TYPE C
- FLEXIBLE TUBULAR MARKERS
- SIGN MOUNTED ON POST
- SIGN MOUNTED ON TEMPORARY SUPPORT
- TYPE III BARRICADE WITH/WITHOUT SIGN
- REMOVING PAVEMENT MARKINGS

121+00'BD'

BROWN DEER RD & STH 100

234+00'NW'

235+00'NW'

236'NW'

236+00'NW'

PAVEMENT MARKING LEGEND

⑮ TEMPORARY PAVEMENT MARKING 4-INCH (DOUBLE YELLOW)

NOTE:

ALL EXISTING PAVEMENT MARKINGS TO REMAIN IN STAGE 1 UNLESS OTHERWISE SPECIFIED.

N

2

14'

50' (TYP)

25' (TYP)

⑮

MATCH LINE STA. 230+00

MATCH LINE

231+00

232+00

233+00

234+00

235+00

236

B-40-404

11'

50' (TYP)

STH 181 / 76TH ST

123+00'BD'

124+00'BD'

230+00SE'

231+00SE'

232+00SE'

230'SE'

234+00'NE'

235+00'NE'

PROJECT NO: 2140-08-73	HWY: STH 181-N. 76TH ST.	COUNTY: MILWAUKEE	CONSTRUCTION STAGING - STAGE 1	SHEET 398	E

NOTE:

ALL EXISTING PAVEMENT MARKINGS TO REMAIN IN STAGE 1 UNLESS OTHERWISE SPECIFIED.

LEGEND

- WORK ZONE
- TEMPORARY PAVEMENT
- TEMPORARY CROSSWALK ACCESS
- TEMPORARY BUS STOP PAD
- TEMPORARY PAVEMENT TO BE USED IN FUTURE STAGES
- SIGNAL CONTROLLED INTERSECTION
- TRAFFIC FLOW ARROW
- DRUM WITH/WITHOUT LIGHT, TYPE C
- FLEXIBLE TUBULAR MARKERS
- SIGN MOUNTED ON POST
- SIGN MOUNTED ON TEMPORARY SUPPORT
- TYPE III BARRICADE WITH/WITHOUT SIGN
- REMOVING PAVEMENT MARKINGS

PAVEMENT MARKING LEGEND

(3) TEMPORARY PAVEMENT MARKING 4-INCH (WHITE)

(15) TEMPORARY PAVEMENT MARKING 4-INCH (DOUBLE YELLOW)

MATCH LINE STA. 236+00

MATCH LINE STA. 242+00

STH 181 / 76TH ST

SPEED LIMIT 45 R2-1 24" X 30"

17-1

17-9

W3-3 36" X 36"

EXISTING SIGN TO BE MOVED

MOVE SIGN TO HERE

PROJECT NO: 2140-08-73	HWY: STH 181-N. 76TH ST.	COUNTY: MILWAUKEE	CONSTRUCTION STAGING - STAGE 1	SHEET 399	E

2

PAVEMENT MARKING LEGEND

(1)	TEMPORARY PAVEMENT MARKING 4-INCH (DASHED WHITE)
(3)	TEMPORARY PAVEMENT MARKING 4-INCH (WHITE)
(15)	TEMPORARY PAVEMENT MARKING 4-INCH (DOUBLE YELLOW)

N

EXIT
E5-1
60" X 48"

NOTE:
ALL EXISTING PAVEMENT MARKINGS TO REMAIN IN STAGE 1 UNLESS OTHERWISE SPECIFIED.

243'NW' 244'NW' 245'NW' 246'NW' 247'NW'

50' (TYP)

STH 181 / 76TH ST

MATCH LINE STA. 242+00

10+00 'TNE'
+74.5 'TNE'
0.0' LT

243+00 244+00 245+00 246+00 247+00

+75.2
14.1' LT

+75.2
0.9' LT

MATCH LINE STA. 248+00

11'

50' (TYP)

25' (TYP)

242'NE' 243'NE'

MOVE SIGN TO HERE
LEFT TURN LANE
R3-55L
24" X 30"
18-3

EXISTING SIGN TO BE MOVED
LEFT TURN LANE
R3-55L
24" X 30"
18-3

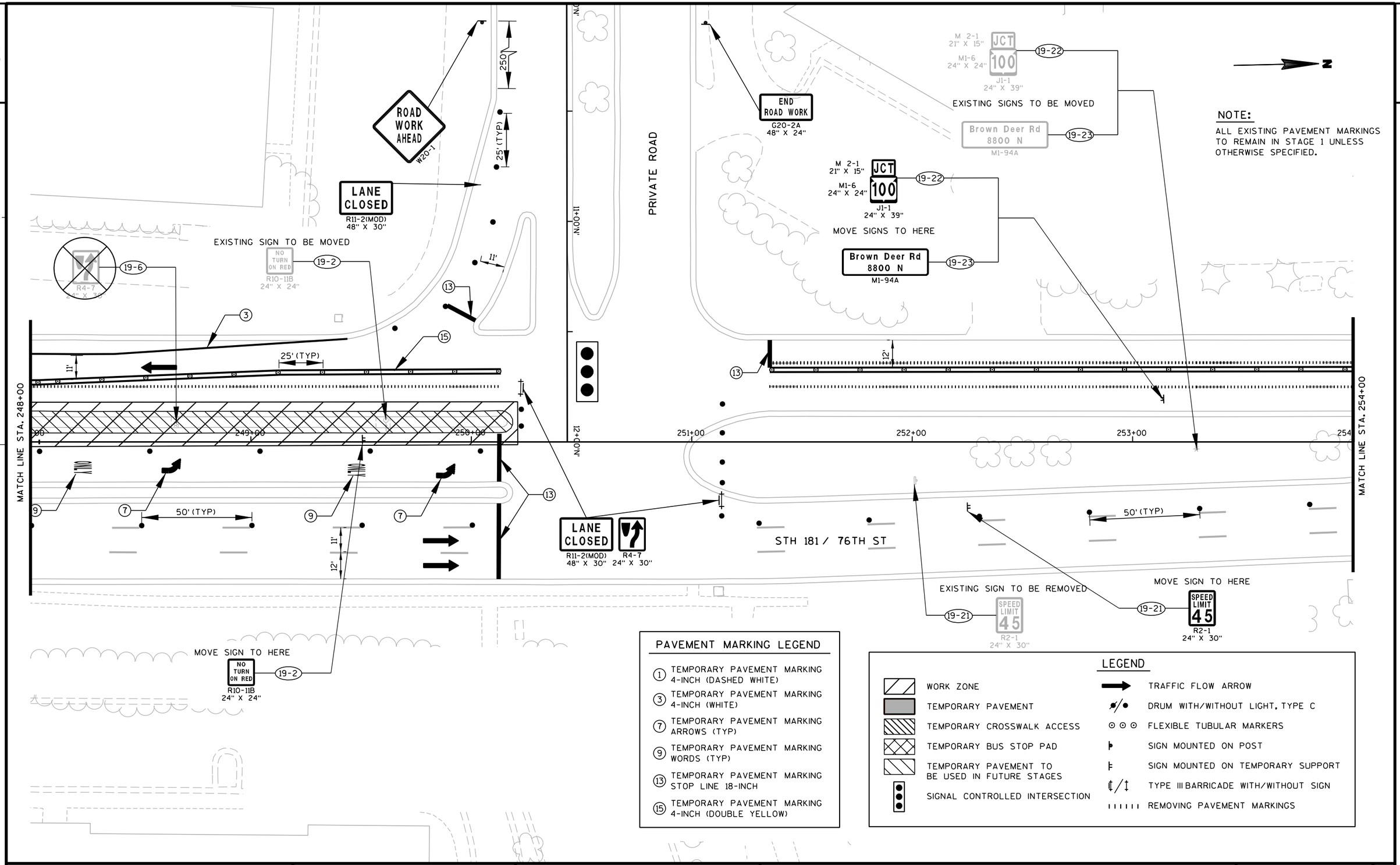
MOVE SIGN TO HERE
LEFT TURN LANE
R3-55L(MOD)
24" X 30"
18-7

EXISTING SIGN TO BE MOVED
LEFT TURN LANE
R3-55L(MOD)
24" X 30"
18-7

LEGEND

- WORK ZONE
- TEMPORARY PAVEMENT
- TEMPORARY CROSSWALK ACCESS
- TEMPORARY BUS STOP PAD
- TEMPORARY PAVEMENT TO BE USED IN FUTURE STAGES
- SIGNAL CONTROLLED INTERSECTION
- TRAFFIC FLOW ARROW
- DRUM WITH/WITHOUT LIGHT, TYPE C
- FLEXIBLE TUBULAR MARKERS
- SIGN MOUNTED ON POST
- SIGN MOUNTED ON TEMPORARY SUPPORT
- TYPE III BARRICADE WITH/WITHOUT SIGN
- REMOVING PAVEMENT MARKINGS

PROJECT NO: 2140-08-73	HWY: STH 181-N. 76TH ST.	COUNTY: MILWAUKEE	CONSTRUCTION STAGING - STAGE 1	SHEET 400	E



PAVEMENT MARKING LEGEND

- (1) TEMPORARY PAVEMENT MARKING 4-INCH (DASHED WHITE)
- (3) TEMPORARY PAVEMENT MARKING 4-INCH (WHITE)
- (7) TEMPORARY PAVEMENT MARKING ARROWS (TYP)
- (9) TEMPORARY PAVEMENT MARKING WORDS (TYP)
- (13) TEMPORARY PAVEMENT MARKING STOP LINE 18-INCH
- (15) TEMPORARY PAVEMENT MARKING 4-INCH (DOUBLE YELLOW)

LEGEND

- WORK ZONE
- TEMPORARY PAVEMENT
- TEMPORARY CROSSWALK ACCESS
- TEMPORARY BUS STOP PAD
- TEMPORARY PAVEMENT TO BE USED IN FUTURE STAGES
- SIGNAL CONTROLLED INTERSECTION
- TRAFFIC FLOW ARROW
- DRUM WITH/WITHOUT LIGHT, TYPE C
- FLEXIBLE TUBULAR MARKERS
- SIGN MOUNTED ON POST
- SIGN MOUNTED ON TEMPORARY SUPPORT
- TYPE III BARRICADE WITH/WITHOUT SIGN
- REMOVING PAVEMENT MARKINGS

PROJECT NO: 2140-08-73	HWY: STH 181-N. 76TH ST.	COUNTY: MILWAUKEE	CONSTRUCTION STAGING - STAGE 1	SHEET 401	E

2

2

PAVEMENT MARKING LEGEND

- (7) TEMPORARY PAVEMENT MARKING ARROWS (TYP)
- (9) TEMPORARY PAVEMENT MARKING WORDS (TYP)
- (11) TEMPORARY PAVEMENT MARKING CHANNELIZING 8-INCH
- (15) TEMPORARY PAVEMENT MARKING 4-INCH (DOUBLE YELLOW)

N

NOTE:

ALL EXISTING PAVEMENT MARKINGS TO REMAIN IN STAGE 1 UNLESS OTHERWISE SPECIFIED.

ROAD WORK AHEAD
W20-1

PRIVATE ROAD

11+00 N.L.

STH 181 / 76TH ST

MATCH LINE STA. 254+00

255+00

256+00

257+00

25' (TYP)

12'

10'

11'

(15)

(9)

(7)

(11)

LEFT TURN LANE
R3-55L
24" X 30"

20-3

R4-7
24" X 30"

LANE CLOSED
R11-2(MOD)
48" X 30"

R4-7
24" X 30"

END ROAD WORK
C20-2A
48" X 24"

ROAD WORK AHEAD
W20-1

12+00 N.L.

10+00.00'NL1'

258+00

259+00

260

MATCH LINE STA. 260+00

50' (TYP)

20-15

R4-7
24" X 30"

NORTHRIDGE LAKES BLVD.

250'

LEGEND

- WORK ZONE
- TEMPORARY PAVEMENT
- TEMPORARY CROSSWALK ACCESS
- TEMPORARY BUS STOP PAD
- TEMPORARY PAVEMENT TO BE USED IN FUTURE STAGES
- SIGNAL CONTROLLED INTERSECTION
- TRAFFIC FLOW ARROW
- DRUM WITH/WITHOUT LIGHT, TYPE C
- FLEXIBLE TUBULAR MARKERS
- SIGN MOUNTED ON POST
- SIGN MOUNTED ON TEMPORARY SUPPORT
- TYPE III BARRICADE WITH/WITHOUT SIGN
- REMOVING PAVEMENT MARKINGS

PROJECT NO: 2140-08-73	HWY: STH 181-N. 76TH ST.	COUNTY: MILWAUKEE	CONSTRUCTION STAGING - STAGE 1	SHEET 402	E

2

ROAD WORK AHEAD
W20-1

250'

PRIVATE ROAD

END ROAD WORK
G20-2A
48" X 24"

N

PAVEMENT MARKING LEGEND

- (7) TEMPORARY PAVEMENT MARKING ARROWS (TYP)
- (9) TEMPORARY PAVEMENT MARKING WORDS (TYP)
- (11) TEMPORARY PAVEMENT MARKING CHANNELIZING 8-INCH
- (15) TEMPORARY PAVEMENT MARKING 4-INCH (DOUBLE YELLOW)

NOTE:

ALL EXISTING PAVEMENT MARKINGS TO REMAIN IN STAGE 1 UNLESS OTHERWISE SPECIFIED.

LEFT TURN LANE
R3-55L
24" X 30"

15

25' (TYP)

12'

MATCH LINE STA. 260+00

STH 181 / 76TH ST

25' (TYP)

11'

10'

9

11

7

21-9

R4-7
24" X 30"

12'

MATCH LINE STA. 266+00

50' (TYP)

11'

10'

ROAD CLOSED
R11-2
48" X 30"

R4-7
24" X 30"

LEFT TURN LANE
R3-55L
24" X 30"

21-4

TRANSIT

LEGEND

- WORK ZONE
- TEMPORARY PAVEMENT
- TEMPORARY CROSSWALK ACCESS
- TEMPORARY BUS STOP PAD
- TEMPORARY PAVEMENT TO BE USED IN FUTURE STAGES
- SIGNAL CONTROLLED INTERSECTION
- TRAFFIC FLOW ARROW
- DRUM WITH/WITHOUT LIGHT, TYPE C
- FLEXIBLE TUBULAR MARKERS
- SIGN MOUNTED ON POST
- SIGN MOUNTED ON TEMPORARY SUPPORT
- TYPE III BARRICADE WITH/WITHOUT SIGN
- REMOVING PAVEMENT MARKINGS

PROJECT NO: 2140-08-73	HWY: STH 181-N. 76TH ST.	COUNTY: MILWAUKEE	CONSTRUCTION STAGING - STAGE 1	SHEET 403	E

2

PAVEMENT MARKING LEGEND

(11) TEMPORARY PAVEMENT MARKING CHANNELIZING 8-INCH

(15) TEMPORARY PAVEMENT MARKING 4-INCH (DOUBLE YELLOW)

NOTE:

ALL EXISTING PAVEMENT MARKINGS TO REMAIN IN STAGE 1 UNLESS OTHERWISE SPECIFIED.

N

MOVE SIGN TO HERE

22-4

W3-3
36" X 36"

EXISTING SIGN TO BE MOVED

22-4

W3-3
36" X 36"

22-11

SPEED LIMIT 45
R2-1
24" X 30"

MATCH LINE STA. 266+00

266+00 267+00 268+00 269+00 270+00 271+00 272+00

MATCH LINE STA. 272+00

12'

25' (TYP)

50' (TYP)

11

STH 181 / 76TH ST

10' 11'

LEFT TURN LANE
R3-55L
24" X 30"

LANE CLOSED
R11-2(MOD)
48" X 30"

R4-7
24" X 30"

22-7

R4-7
24" X 30"

EXISTING SIGN TO BE MOVED 24" X 30"

22-5

SPEED LIMIT 45
R2-1
24" X 30"

MOVE SIGN TO HERE

22-5

SPEED LIMIT 45
R2-1
24" X 30"

LEGEND

- WORK ZONE
- TEMPORARY PAVEMENT
- TEMPORARY CROSSWALK ACCESS
- TEMPORARY BUS STOP PAD
- TEMPORARY PAVEMENT TO BE USED IN FUTURE STAGES
- SIGNAL CONTROLLED INTERSECTION
- TRAFFIC FLOW ARROW
- DRUM WITH/WITHOUT LIGHT, TYPE C
- FLEXIBLE TUBULAR MARKERS
- SIGN MOUNTED ON POST
- SIGN MOUNTED ON TEMPORARY SUPPORT
- TYPE III BARRICADE WITH/WITHOUT SIGN
- REMOVING PAVEMENT MARKINGS

PROJECT NO: 2140-08-73	HWY: STH 181-N. 76TH ST.	COUNTY: MILWAUKEE	CONSTRUCTION STAGING - STAGE 1	SHEET 404	E

2

2

ROAD WORK AHEAD
W20-1

250'

GLENBROOK RD

END ROAD WORK
G20-2A
48" X 24"

PAVEMENT MARKING LEGEND

(11) TEMPORARY PAVEMENT MARKING CHANNELIZING 8-INCH

(15) TEMPORARY PAVEMENT MARKING 4-INCH (DOUBLE YELLOW)

NOTE:

ALL EXISTING PAVEMENT MARKINGS TO REMAIN IN STAGE 1 UNLESS OTHERWISE SPECIFIED.

N

25' (TYP)

23-7

R4-7
24" X 30"

12'

15

STH 181 / 76TH ST

MATCH LINE STA. 272+00

272+00

273+00

274+00

275+00

276+00

277+00

278

MATCH LINE STA. 278+00

25' (TYP)

11

LEFT TURN LANE
R3-55L
24" X 30"

TRANSIT

23-2

LANE CLOSED
R11-2(MOD)
48" X 30"

R4-7
24" X 30"

11'

10'

50' (TYP)

EXISTING SIGN TO BE MOVED

SPEED LIMIT 45
R2-1
24" X 30"

23-8

MOVE SIGN TO HERE

SPEED LIMIT 45
R2-1
24" X 30"

23-8

LEGEND

- WORK ZONE
- TEMPORARY PAVEMENT
- TEMPORARY CROSSWALK ACCESS
- TEMPORARY BUS STOP PAD
- TEMPORARY PAVEMENT TO BE USED IN FUTURE STAGES
- SIGNAL CONTROLLED INTERSECTION
- TRAFFIC FLOW ARROW
- DRUM WITH/WITHOUT LIGHT, TYPE C
- FLEXIBLE TUBULAR MARKERS
- SIGN MOUNTED ON POST
- SIGN MOUNTED ON TEMPORARY SUPPORT
- TYPE III BARRICADE WITH/WITHOUT SIGN
- REMOVING PAVEMENT MARKINGS

PROJECT NO: 2140-08-73	HWY: STH 181-N. 76TH ST.	COUNTY: MILWAUKEE	CONSTRUCTION STAGING - STAGE 1	SHEET 405	E

2

EXISTING SIGN TO BE MOVED

CITY OF
MILWAUKEE
NO PARKING
2 AM-6 AM
ON ANY STREET WITHOUT
POLICE PERMIT
NIGHT PARKING AN SNOW
EMERGENCY REGULATIONS
ARE IN EFFECT IN THIS CITY

24-7

MOVE SIGN TO HERE

CITY OF
MILWAUKEE
NO PARKING
2 AM-6 AM
ON ANY STREET WITHOUT
POLICE PERMIT
NIGHT PARKING AN SNOW
EMERGENCY REGULATIONS
ARE IN EFFECT IN THIS CITY

24-7

EXISTING SIGN TO BE MOVED

24-5

W3-3
36" X 36"

15

25' (TYP)

12'

50' (TYP)

+48.2
4.4' LT

+59.9
13.8' LT

+83.1
5.4' LT

MATCH LINE STA. 278+00

278+00

279+00

280+00

281+00

282+00

283+00

284

MATCH LINE STA. 284+00

50' (TYP)

STH 181 / 76TH ST

+46.0
13.7' RT

+70.9
13.9' RT

11'

10'

+67.9
2.5' RT

+61.2
14.2' RT

MOVE SIGN TO HERE

24-5

W3-3
36" X 36"

PAVEMENT MARKING LEGEND

(15) TEMPORARY PAVEMENT MARKING
4-INCH (DOUBLE YELLOW)

NOTE:

ALL EXISTING PAVEMENT MARKINGS
TO REMAIN IN STAGE 1 UNLESS
OTHERWISE SPECIFIED.

LEGEND

- WORK ZONE
- TEMPORARY PAVEMENT
- TEMPORARY CROSSWALK ACCESS
- TEMPORARY BUS STOP PAD
- TEMPORARY PAVEMENT TO BE USED IN FUTURE STAGES
- SIGNAL CONTROLLED INTERSECTION
- TRAFFIC FLOW ARROW
- DRUM WITH/WITHOUT LIGHT, TYPE C
- FLEXIBLE TUBULAR MARKERS
- SIGN MOUNTED ON POST
- SIGN MOUNTED ON TEMPORARY SUPPORT
- TYPE III BARRICADE WITH/WITHOUT SIGN
- REMOVING PAVEMENT MARKINGS

PROJECT NO: 2140-08-73	HWY: STH 181-N. 76TH ST.	COUNTY: MILWAUKEE	CONSTRUCTION STAGING - STAGE 1	SHEET	E

FILE NAME : s:\@sai\051--100\089\099\micros\design\0873\026025_s1.dgn PLOT DATE : 7/30/2007 PLOT BY : $$...plotuser...$$ PLOT NAME : PLOT SCALE : $$.....plotscale.....$$ WISDOT/CADDS SHEET 42

2

PAVEMENT MARKING LEGEND

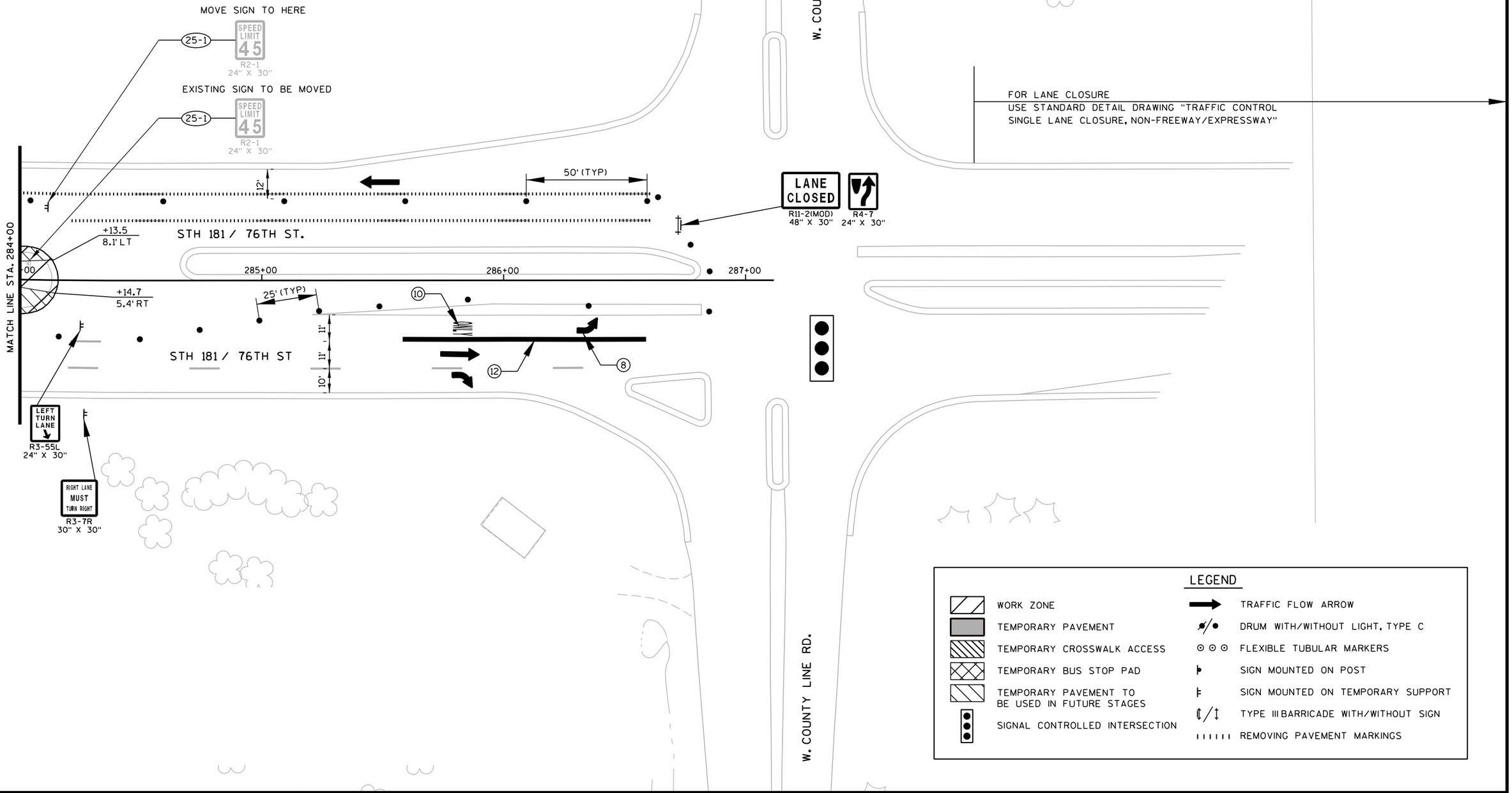
(8) TEMPORARY PAVEMENT MARKING ARROWS REMOVABLE TAPE (TYP)

(10) TEMPORARY PAVEMENT MARKING WORDS REMOVABLE TAPE (TYP)

(12) TEMPORARY PAVEMENT MARKING CHANNELIZING REMOVABLE TAPE 8-INCH

NOTE:

ALL EXISTING PAVEMENT MARKINGS TO REMAIN IN STAGE 1 UNLESS OTHERWISE SPECIFIED.



LEGEND

- WORK ZONE
- TEMPORARY PAVEMENT
- TEMPORARY CROSSWALK ACCESS
- TEMPORARY BUS STOP PAD
- TEMPORARY PAVEMENT TO BE USED IN FUTURE STAGES
- SIGNAL CONTROLLED INTERSECTION
- TRAFFIC FLOW ARROW
- DRUM WITH/WITHOUT LIGHT, TYPE C
- FLEXIBLE TUBULAR MARKERS
- SIGN MOUNTED ON POST
- SIGN MOUNTED ON TEMPORARY SUPPORT
- TYPE III BARRICADE WITH/WITHOUT SIGN
- REMOVING PAVEMENT MARKINGS

PROJECT NO: 2140-08-73	HWY: STH 181-N. 76TH ST.	COUNTY: MILWAUKEE	CONSTRUCTION STAGING - STAGE 1	SHEET 407	E

2

N

225'SW'

9+00'TSW'

10+00

SW'

8+00'TSW'

224+00

225+00

226+00

227+00

228+00

STH 181 / 76TH ST

+07.7 'TSE'
12.5' LT

+53.6 'TSE'
0.0' RT

10+00'TSE'

11+00'TSE'

12+00'TSE'

13+00'TSE'

14+00'TSE'

50' (TYP)

9+00'TSE'

225'SE'

226'SE'

227'SE'

228'SE'

224'SE'

223'SE'

MATCH LINE STA. 230+00 'SE'

NOTE:

ALL EXISTING PAVEMENT MARKINGS TO REMAIN IN STAGE 1 UNLESS OTHERWISE SPECIFIED.

LEGEND

- WORK ZONE
- TEMPORARY PAVEMENT
- TEMPORARY CROSSWALK ACCESS
- TEMPORARY BUS STOP PAD
- TEMPORARY PAVEMENT TO BE USED IN FUTURE STAGES
- SIGNAL CONTROLLED INTERSECTION
- TRAFFIC FLOW ARROW
- DRUM WITH/WITHOUT LIGHT, TYPE C
- FLEXIBLE TUBULAR MARKERS
- SIGN MOUNTED ON POST
- SIGN MOUNTED ON TEMPORARY SUPPORT
- TYPE III BARRICADE WITH/WITHOUT SIGN
- REMOVING PAVEMENT MARKINGS

2

STH 181 / 76TH ST.

231+00

230+00

123+00'BD'

124+00'BD'

125+00'BD'

126+00'BD'

127+0

LANE CLOSED
R11-2(MOD)
48" X 30"

27-2

R3-7L
36" X 36"

+82.12 'TSE'
12.5' LT

18+00'TSE'

17+00'TSE'

16+00'TSE'

15+00'TSE'

232+00'SE'

231+00'SE'

230+00'SE'

230'SE'

231'SE'

232'SE'

233'SE'

+4.6 'TNE'
12.5' LT

1+00'TNE'

2+00'TNE'

+37.4 'TNE'
12.5' LT

235+00'NE'

234+00'NE'

LANE CLOSED
R11-2(MOD)
48" X 30"

234'NE'

BROWN DEER RD. & STH 100

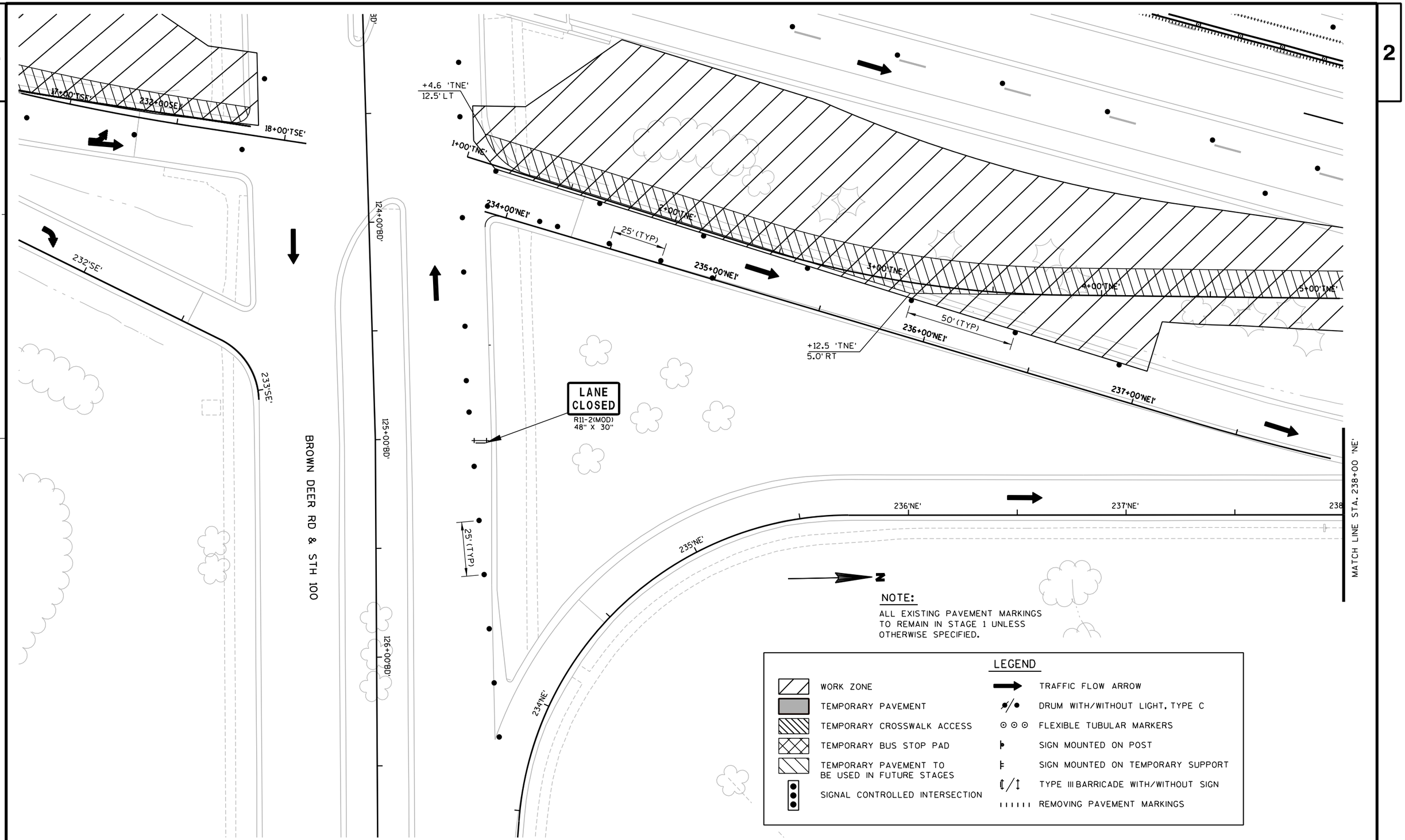
N

LEGEND

WORK ZONE	TRAFFIC FLOW ARROW
TEMPORARY PAVEMENT	DRUM WITH/WITHOUT LIGHT, TYPE C
TEMPORARY CROSSWALK ACCESS	FLEXIBLE TUBULAR MARKERS
TEMPORARY BUS STOP PAD	SIGN MOUNTED ON POST
TEMPORARY PAVEMENT TO BE USED IN FUTURE STAGES	SIGN MOUNTED ON TEMPORARY SUPPORT
SIGNAL CONTROLLED INTERSECTION	TYPE III BARRICADE WITH/WITHOUT SIGN
	REMOVING PAVEMENT MARKINGS

PROJECT NO: 2140-08-73	HWY: STH 181-N. 76TH ST.	COUNTY: MILWAUKEE	CONSTRUCTION STAGING - STAGE 1	SHEET 409	E

2



NOTE:

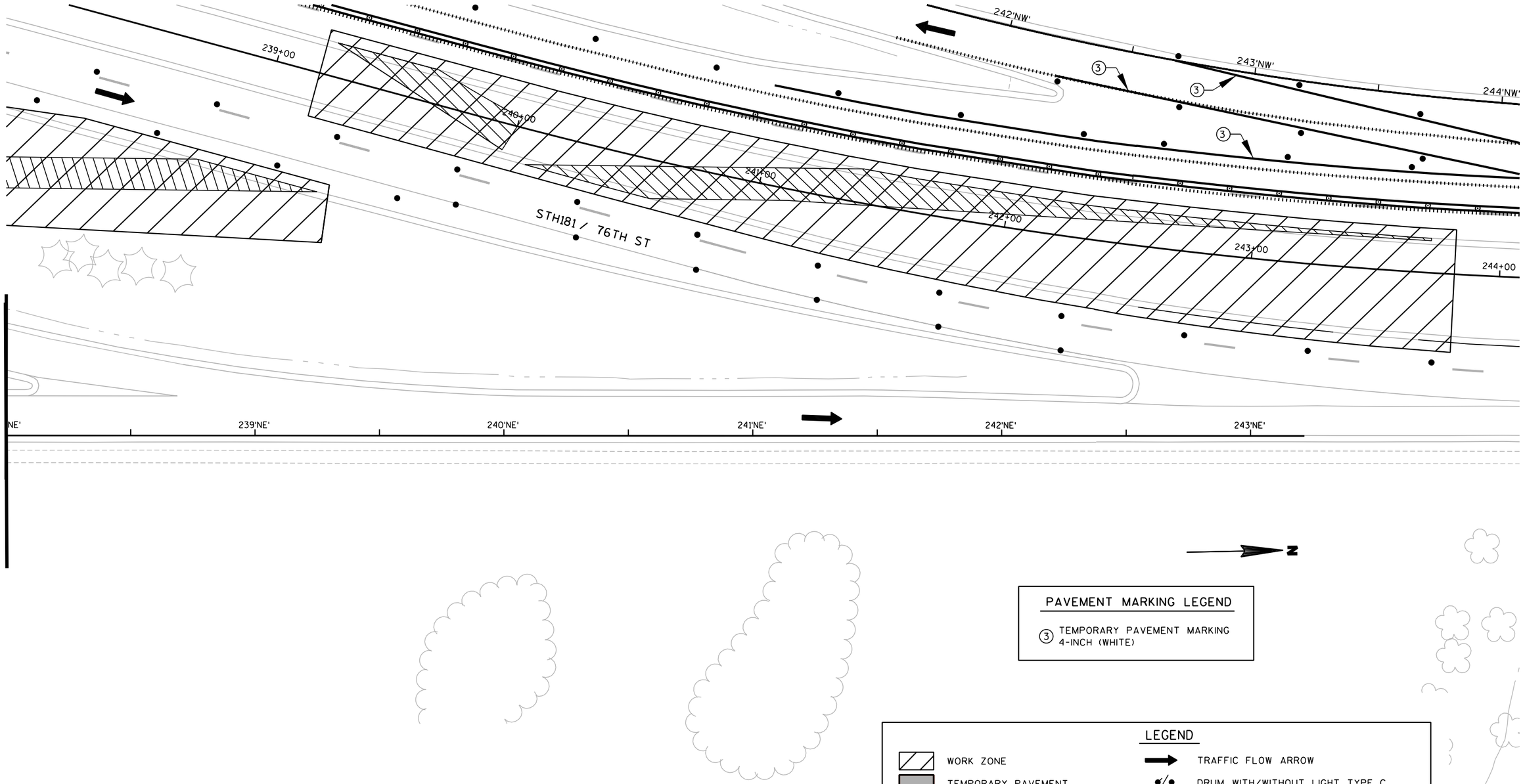
ALL EXISTING PAVEMENT MARKINGS TO REMAIN IN STAGE 1 UNLESS OTHERWISE SPECIFIED.

LEGEND

- WORK ZONE
- TEMPORARY PAVEMENT
- TEMPORARY CROSSWALK ACCESS
- TEMPORARY BUS STOP PAD
- TEMPORARY PAVEMENT TO BE USED IN FUTURE STAGES
- SIGNAL CONTROLLED INTERSECTION
- TRAFFIC FLOW ARROW
- DRUM WITH/WITHOUT LIGHT, TYPE C
- FLEXIBLE TUBULAR MARKERS
- SIGN MOUNTED ON POST
- SIGN MOUNTED ON TEMPORARY SUPPORT
- TYPE III BARRICADE WITH/WITHOUT SIGN
- REMOVING PAVEMENT MARKINGS

PROJECT NO: 2140-08-73	HWY: STH 181-N. 76TH ST.	COUNTY: MILWAUKEE	CONSTRUCTION STAGING - STAGE 1	SHEET 410	E

2



PAVEMENT MARKING LEGEND

③ TEMPORARY PAVEMENT MARKING 4-INCH (WHITE)

LEGEND

WORK ZONE	TRAFFIC FLOW ARROW
TEMPORARY PAVEMENT	DRUM WITH/WITHOUT LIGHT, TYPE C
TEMPORARY CROSSWALK ACCESS	FLEXIBLE TUBULAR MARKERS
TEMPORARY BUS STOP PAD	SIGN MOUNTED ON POST
TEMPORARY PAVEMENT TO BE USED IN FUTURE STAGES	SIGN MOUNTED ON TEMPORARY SUPPORT
SIGNAL CONTROLLED INTERSECTION	TYPE III BARRICADE WITH/WITHOUT SIGN
	REMOVING PAVEMENT MARKINGS

PROJECT NO: 2140-08-73	HWY: STH 181-N. 76TH ST.	COUNTY: MILWAUKEE	CONSTRUCTION STAGING - STAGE 1	SHEET 411	E

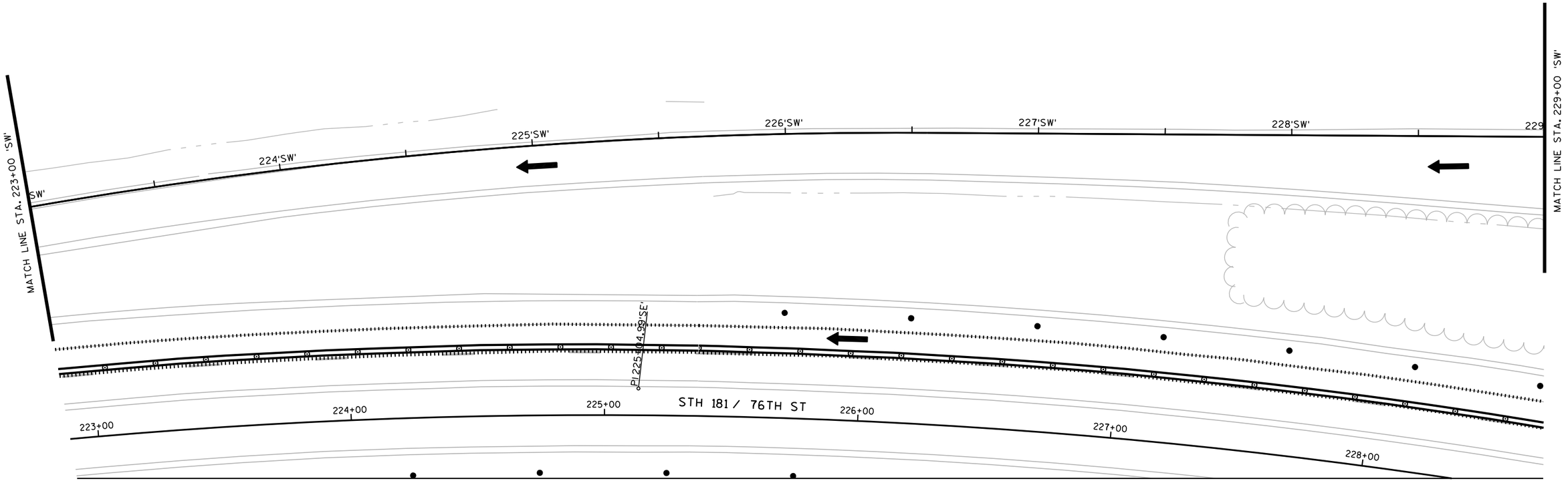
2

2

N

LEGEND

- WORK ZONE
- TEMPORARY PAVEMENT
- TEMPORARY CROSSWALK ACCESS
- TEMPORARY BUS STOP PAD
- TEMPORARY PAVEMENT TO BE USED IN FUTURE STAGES
- SIGNAL CONTROLLED INTERSECTION
- TRAFFIC FLOW ARROW
- DRUM WITH/WITHOUT LIGHT, TYPE C
- FLEXIBLE TUBULAR MARKERS
- SIGN MOUNTED ON POST
- SIGN MOUNTED ON TEMPORARY SUPPORT
- TYPE III BARRICADE WITH/WITHOUT SIGN
- REMOVING PAVEMENT MARKINGS



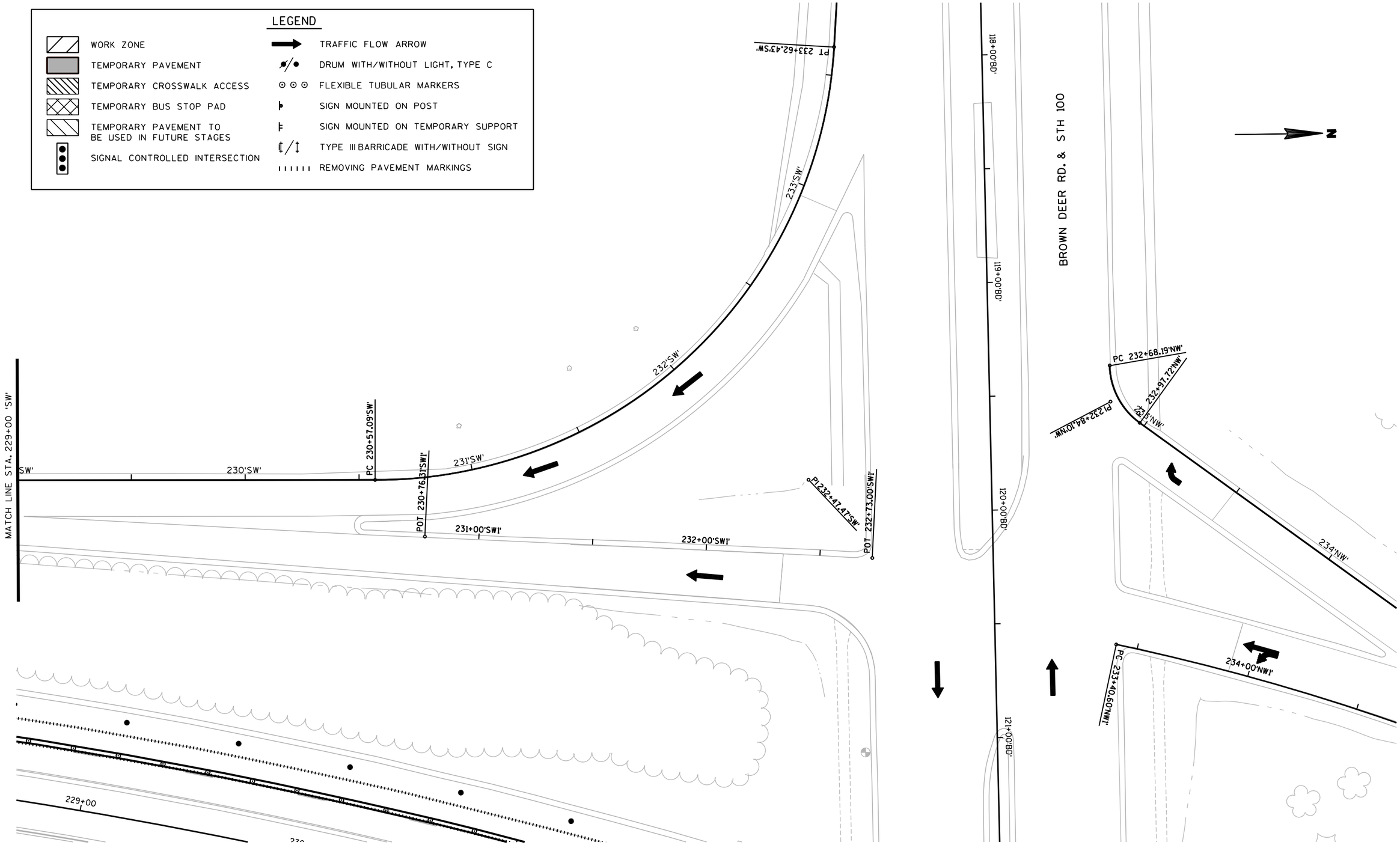
PROJECT NO: 2140-08-73	HWY: STH 181-N. 76TH ST.	COUNTY: MILWAUKEE	CONSTRUCTION STAGING - STAGE 1	SHEET 412	E

FILE NAME : s:\@sdi\051--100\089\099\micros\design\0873\026031_s1.dgn PLOT DATE : 7/30/2007 PLOT BY : $$...plotuser...$$ PLOT NAME : PLOT SCALE : $$.....plotscale.....$$ WISDOT/CADDS SHEET 42

2

LEGEND

- WORK ZONE
- TEMPORARY PAVEMENT
- TEMPORARY CROSSWALK ACCESS
- TEMPORARY BUS STOP PAD
- TEMPORARY PAVEMENT TO BE USED IN FUTURE STAGES
- SIGNAL CONTROLLED INTERSECTION
- TRAFFIC FLOW ARROW
- DRUM WITH/WITHOUT LIGHT, TYPE C
- FLEXIBLE TUBULAR MARKERS
- SIGN MOUNTED ON POST
- SIGN MOUNTED ON TEMPORARY SUPPORT
- TYPE III BARRICADE WITH/WITHOUT SIGN
- REMOVING PAVEMENT MARKINGS



PROJECT NO: 2140-08-73	HWY: STH 181-N. 76TH ST.	COUNTY: MILWAUKEE	CONSTRUCTION STAGING - STAGE 1	SHEET 413	E

2

LEGEND

- WORK ZONE
- TEMPORARY PAVEMENT
- TEMPORARY CROSSWALK ACCESS
- TEMPORARY BUS STOP PAD
- TEMPORARY PAVEMENT TO BE USED IN FUTURE STAGES
- SIGNAL CONTROLLED INTERSECTION
- TRAFFIC FLOW ARROW
- DRUM WITH/WITHOUT LIGHT, TYPE C
- FLEXIBLE TUBULAR MARKERS
- SIGN MOUNTED ON POST
- SIGN MOUNTED ON TEMPORARY SUPPORT
- TYPE III BARRICADE WITH/WITHOUT SIGN
- REMOVING PAVEMENT MARKINGS

N

BROWN DEER RD. & STH 100

118+00'BD'

119+00'BD'

120+00'BD'

121+00'BD'

PC 232+68.19'NW'

232+97.72'NW'

PI 232+84.10'NW'

233'NW'

234'NW'

PC 234+77.16'NW'

235'NW'

PI 234+76.31'NW'

236'NW'

PT 236+19.32'NW'

237

MATCH LINE STA. 237+00 'NW'

PI 235+48.96'NW'

236+00'NW'

235+00'NW'

234+00'NW'

PT 236+10.38'NW'

PC 233+40.60'NW'

PT 233+6.

233'SW'

232'SW'

PI 232+47.47'SW'

PT 232+13.00'SW'

232+00'SW'

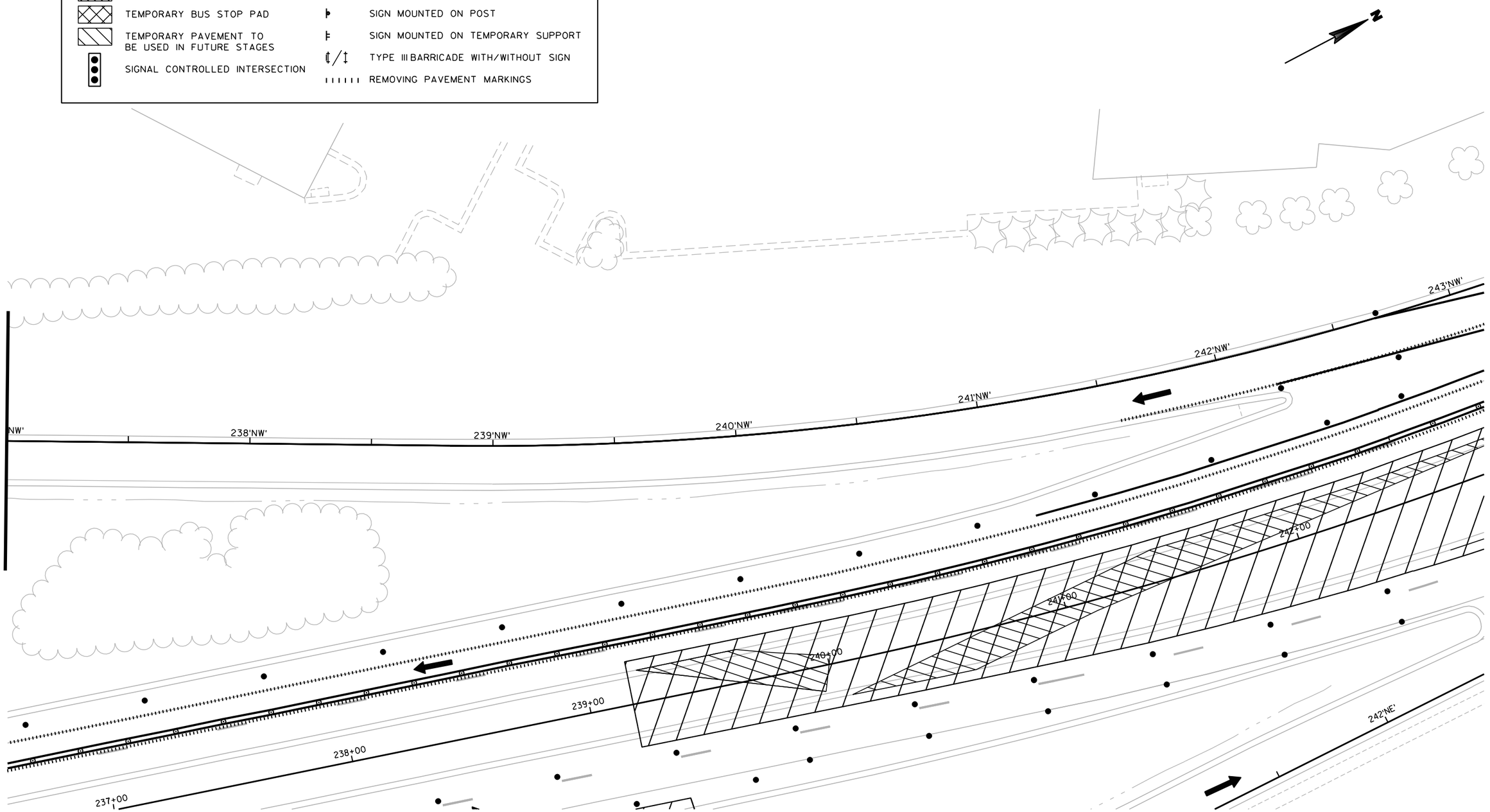
PROJECT NO: 2140-08-73	HWY: STH 181-N. 76TH ST.	COUNTY: MILWAUKEE	CONSTRUCTION STAGING - STAGE 1	SHEET 414	E

2

2

LEGEND

- WORK ZONE
- TEMPORARY PAVEMENT
- TEMPORARY CROSSWALK ACCESS
- TEMPORARY BUS STOP PAD
- TEMPORARY PAVEMENT TO BE USED IN FUTURE STAGES
- SIGNAL CONTROLLED INTERSECTION
- TRAFFIC FLOW ARROW
- DRUM WITH/WITHOUT LIGHT, TYPE C
- FLEXIBLE TUBULAR MARKERS
- SIGN MOUNTED ON POST
- SIGN MOUNTED ON TEMPORARY SUPPORT
- TYPE III BARRICADE WITH/WITHOUT SIGN
- REMOVING PAVEMENT MARKINGS



PROJECT NO: 2140-08-73	HWY: STH 181-N. 76TH ST.	COUNTY: MILWAUKEE	CONSTRUCTION STAGING - STAGE 1	SHEET 415	E

FILE NAME : s:\@sai\051--100\089\099\micros\design\0873\026034_s1.dgn PLOT DATE : 7/30/2007 PLOT BY : $$...plotuser...$$ PLOT NAME : PLOT SCALE : $$.....plotscale.....$$

WISDOT/CADDS SHEET 42

2

N

ONLY

STH 181 / 76TH ST

207+00

END
ROAD WORK
G20-2A
48" X 24"

ROAD
WORK
AHEAD
W20-1

LANE
CLOSED
R11-2(MOD)
48" X 30"

250'

250'

10+00'D'

11+00'D'

12+00'D'

13+00'D'

14+00'D'

206+00

DEAN RD

205+00

ONLY

204+00

ROAD
WORK
AHEAD
W20-1

END
ROAD WORK
G20-2A
48" X 24"

NOTE:

ALL EXISTING PAVEMENT MARKINGS TO REMAIN IN STAGE 1 UNLESS OTHERWISE SPECIFIED.

LEGEND

- WORK ZONE
- TEMPORARY PAVEMENT
- TEMPORARY CROSSWALK ACCESS
- TEMPORARY BUS STOP PAD
- TEMPORARY PAVEMENT TO BE USED IN FUTURE STAGES
- SIGNAL CONTROLLED INTERSECTION
- TRAFFIC FLOW ARROW
- DRUM WITH/WITHOUT LIGHT, TYPE C
- FLEXIBLE TUBULAR MARKERS
- SIGN MOUNTED ON POST
- SIGN MOUNTED ON TEMPORARY SUPPORT
- TYPE III BARRICADE WITH/WITHOUT SIGN
- REMOVING PAVEMENT MARKINGS

PROJECT NO: 2140-08-73	HWY: STH 181-N. 76TH ST.	COUNTY: MILWAUKEE	CONSTRUCTION STAGING - STAGE 1	SHEET 416	E

2

PAVEMENT MARKING LEGEND

② TEMPORARY PAVEMENT MARKING REMOVABLE TAPE 4-INCH (DASHED WHITE)

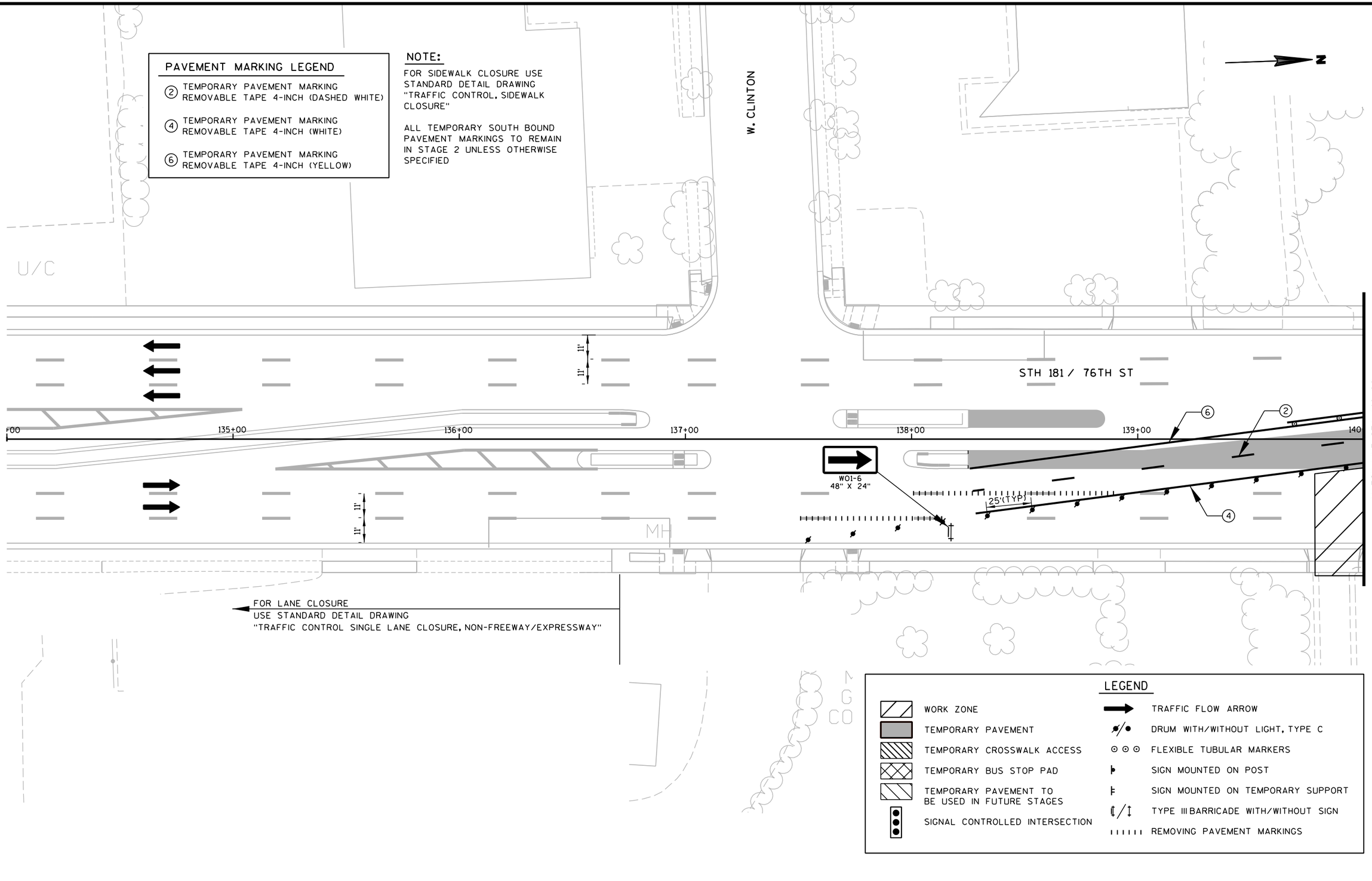
④ TEMPORARY PAVEMENT MARKING REMOVABLE TAPE 4-INCH (WHITE)

⑥ TEMPORARY PAVEMENT MARKING REMOVABLE TAPE 4-INCH (YELLOW)

NOTE:

FOR SIDEWALK CLOSURE USE STANDARD DETAIL DRAWING "TRAFFIC CONTROL, SIDEWALK CLOSURE"

ALL TEMPORARY SOUTH BOUND PAVEMENT MARKINGS TO REMAIN IN STAGE 2 UNLESS OTHERWISE SPECIFIED



LEGEND

- WORK ZONE
- TEMPORARY PAVEMENT
- TEMPORARY CROSSWALK ACCESS
- TEMPORARY BUS STOP PAD
- TEMPORARY PAVEMENT TO BE USED IN FUTURE STAGES
- SIGNAL CONTROLLED INTERSECTION
- TRAFFIC FLOW ARROW
- DRUM WITH/WITHOUT LIGHT, TYPE C
- FLEXIBLE TUBULAR MARKERS
- SIGN MOUNTED ON POST
- SIGN MOUNTED ON TEMPORARY SUPPORT
- TYPE III BARRICADE WITH/WITHOUT SIGN
- REMOVING PAVEMENT MARKINGS

PROJECT NO: 2140-08-73	HWY: STH 181-N. 76TH ST.	COUNTY: MILWAUKEE	CONSTRUCTION STAGING - STAGE 2	SHEET 417	E

2

NOTE:

FOR SIDEWALK CLOSURE USE STANDARD DETAIL DRAWING "TRAFFIC CONTROL, SIDEWALK CLOSURE"

ALL TEMPORARY SOUTH BOUND PAVEMENT MARKINGS TO REMAIN IN STAGE 2 UNLESS OTHERWISE SPECIFIED

PAVEMENT MARKING LEGEND

- (1) TEMPORARY PAVEMENT MARKING 4-INCH (DASHED WHITE)
- (2) TEMPORARY PAVEMENT MARKING REMOVABLE TAPE 4-INCH (DASHED WHITE)
- (4) TEMPORARY PAVEMENT MARKING REMOVABLE TAPE 4-INCH (WHITE)
- (6) TEMPORARY PAVEMENT MARKING REMOVABLE TAPE 4-INCH (YELLOW)
- (15) TEMPORARY PAVEMENT MARKING 4-INCH (DOUBLE YELLOW)
- (16) TEMPORARY PAVEMENT MARKING REMOVABLE TAPE 4-INCH (DOUBLE YELLOW)

N

MOVE SIGN TO HERE

SPEED LIMIT 40 — 1-3
R2-1
24" X 30"

SAW CUT REQUIRED

PLACED IN STAGE 1

STH 181 / 76TH ST

25' (TYP)

10' 10'

10' 10'

+75.84
0.8' RT

+75.1
13.0' RT

50' (TYP)

MATCH LINE STA. 140+00

141+00

142+00

143+00

144+00

145+00

146

MATCH LINE STA. 146+00

REMOVE CURB AND GUTTER
INSTALL TEMPORARY PAVEMENT

STA. 144+21 RT
MAINTAIN TEMPORARY ACCESS, SEE DETAIL

EXISTING SIGN TO BE MOVED

SPEED LIMIT 40 — 1-3
R2-1
24" X 30"

SPEED LIMIT 40 — 1-1
R2-1
24" X 30"

NO TURN ON RED — 1-2
R7-1D
18" X 24"

NO TURN ON RED — 1-7
R7-1R
18" X 24"

W06-3

LEGEND

- WORK ZONE
- TEMPORARY PAVEMENT
- TEMPORARY CROSSWALK ACCESS
- TEMPORARY BUS STOP PAD
- TEMPORARY PAVEMENT TO BE USED IN FUTURE STAGES
- SIGNAL CONTROLLED INTERSECTION
- TRAFFIC FLOW ARROW
- DRUM WITH/WITHOUT LIGHT, TYPE C
- FLEXIBLE TUBULAR MARKERS
- SIGN MOUNTED ON POST
- SIGN MOUNTED ON TEMPORARY SUPPORT
- TYPE III BARRICADE WITH/WITHOUT SIGN
- REMOVING PAVEMENT MARKINGS

PROJECT NO: 2140-08-73	HWY: STH 181-N. 76TH ST.	COUNTY: MILWAUKEE	CONSTRUCTION STAGING - STAGE 2	SHEET 418 E

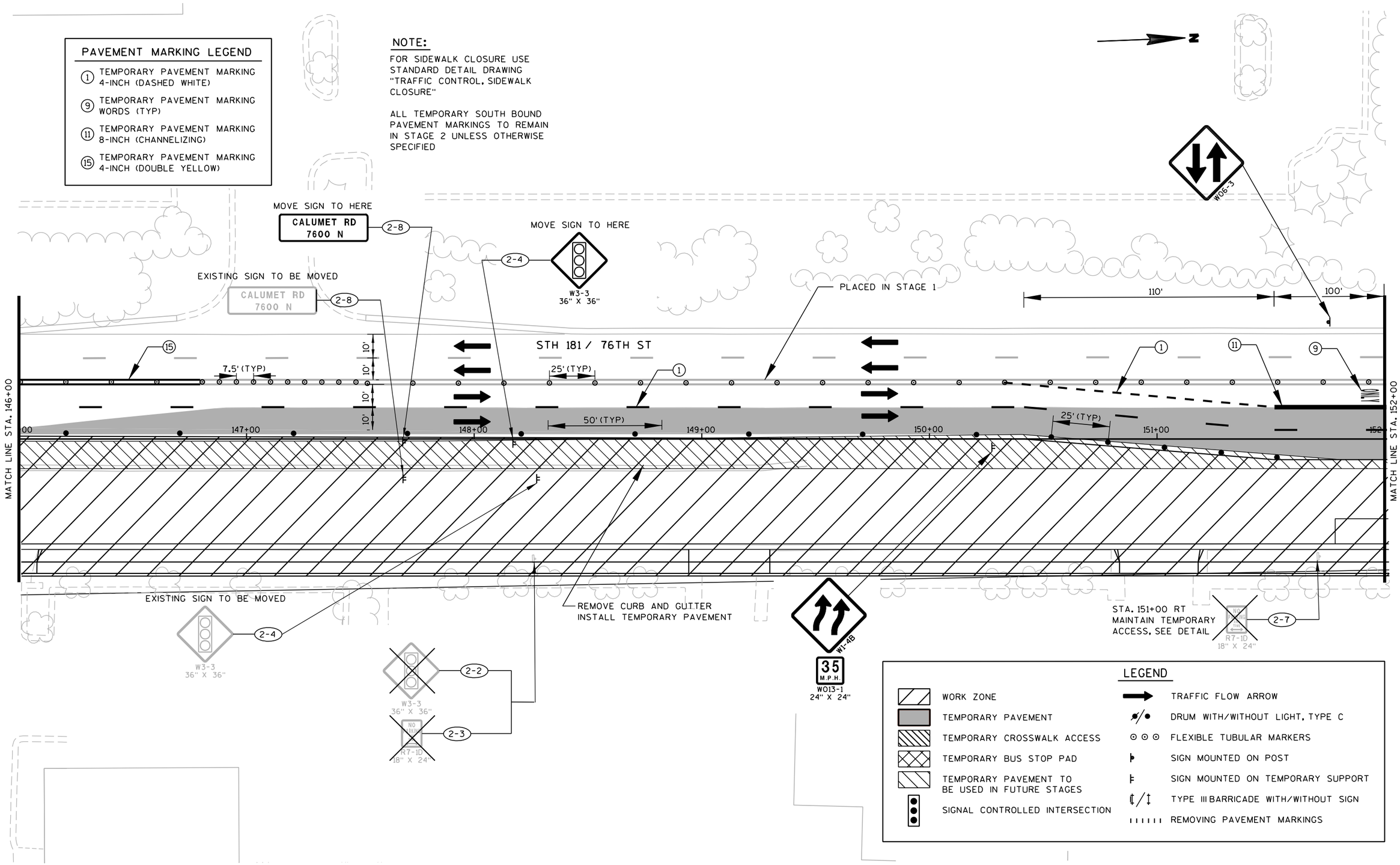
PAVEMENT MARKING LEGEND

- (1) TEMPORARY PAVEMENT MARKING 4-INCH (DASHED WHITE)
- (9) TEMPORARY PAVEMENT MARKING WORDS (TYP)
- (11) TEMPORARY PAVEMENT MARKING 8-INCH (CHANNELIZING)
- (15) TEMPORARY PAVEMENT MARKING 4-INCH (DOUBLE YELLOW)

NOTE:

FOR SIDEWALK CLOSURE USE STANDARD DETAIL DRAWING "TRAFFIC CONTROL, SIDEWALK CLOSURE"

ALL TEMPORARY SOUTH BOUND PAVEMENT MARKINGS TO REMAIN IN STAGE 2 UNLESS OTHERWISE SPECIFIED



LEGEND

- WORK ZONE
- TEMPORARY PAVEMENT
- TEMPORARY CROSSWALK ACCESS
- TEMPORARY BUS STOP PAD
- TEMPORARY PAVEMENT TO BE USED IN FUTURE STAGES
- SIGNAL CONTROLLED INTERSECTION
- TRAFFIC FLOW ARROW
- DRUM WITH/WITHOUT LIGHT, TYPE C
- FLEXIBLE TUBULAR MARKERS
- SIGN MOUNTED ON POST
- SIGN MOUNTED ON TEMPORARY SUPPORT
- TYPE III BARRICADE WITH/WITHOUT SIGN
- REMOVING PAVEMENT MARKINGS

PROJECT NO: 2140-08-73	HWY: STH 181-N. 76TH ST.	COUNTY: MILWAUKEE	CONSTRUCTION STAGING - STAGE 2	SHEET 419	E

2

N

** = AREA TO BE MAINTAINED AT ALL TIMES FOR TURNING MOVEMENTS EXCEPT FOR SPECIFIC WORK OPERATIONS IN THIS AREA

NOTE:

FOR SIDEWALK CLOSURE USE STANDARD DETAIL DRAWING "TRAFFIC CONTROL, SIDEWALK CLOSURE"

ALL TEMPORARY SOUTH BOUND PAVEMENT MARKINGS TO REMAIN IN STAGE 2 UNLESS OTHERWISE SPECIFIED

PAVEMENT MARKING LEGEND

- (1) TEMPORARY PAVEMENT MARKING 4-INCH (DASHED WHITE)
- (7) TEMPORARY PAVEMENT MARKING ARROWS (TYP)
- (11) TEMPORARY PAVEMENT MARKING CHANNELIZING 8-INCH
- (13) TEMPORARY PAVEMENT MARKING STOP LINE 18-INCH

CALUMET

MOVE SIGN TO HERE

SPEED LIMIT 40 R2-1 24" X 30" (3-16)

PLACED IN STAGE 1

STH 181 / 76TH ST

R4-7 24" X 30"

100' 100' 110'

25' (TYP) 50' (TYP) 25' (TYP)

10' 10' 10' 10'

MATCH LINE STA. 152+00

MATCH LINE STA. 158+00

153+00 154+00 155+00 156+00 157+00 158

11+00 CT.

10+00 CT.

REMOVE CURB AND GUTTER
INSTALL TEMPORARY PAVEMENT

EXISTING SIGN TO BE MOVED

SPEED LIMIT 40 R2-1 24" X 30" (3-16)

W06-3

W3-3 36" X 36" (3-19)

TRANSIT (3-5)

W1-4B

35 M.P.H. W013-1 24" X 24"

SPEED LIMIT 40 R2-1 24" X 30" (3-14)

NO TURNING R7-10 18" X 24" (3-15)

LEGEND

- WORK ZONE
- TEMPORARY PAVEMENT
- TEMPORARY CROSSWALK ACCESS
- TEMPORARY BUS STOP PAD
- TEMPORARY PAVEMENT TO BE USED IN FUTURE STAGES
- SIGNAL CONTROLLED INTERSECTION
- TRAFFIC FLOW ARROW
- DRUM WITH/WITHOUT LIGHT, TYPE C
- FLEXIBLE TUBULAR MARKERS
- SIGN MOUNTED ON POST
- SIGN MOUNTED ON TEMPORARY SUPPORT
- TYPE III BARRICADE WITH/WITHOUT SIGN
- REMOVING PAVEMENT MARKINGS

PROJECT NO: 2140-08-73	HWY: STH 181-N. 76TH ST.	COUNTY: MILWAUKEE	CONSTRUCTION STAGING - STAGE 2 PHASE I	SHEET 420	E

2

N

CALUMET

11+00C

NOTE:

FOR SIDEWALK CLOSURE USE STANDARD DETAIL DRAWING "TRAFFIC CONTROL, SIDEWALK CLOSURE"

ALL TEMPORARY SOUTH BOUND PAVEMENT MARKINGS TO REMAIN IN STAGE 2 UNLESS OTHERWISE SPECIFIED

100'

100'

110'

PLACED IN STAGE 1

R4-7
24" X 30"

STH 181 / 76TH ST

10'

10'

10'

10'

25' (TYP)

50'

50' (TYP)

25' (TYP)

**

MATCH LINE STA. 152+00

00

153+00

154+00

155+00

156+00

157+00

158

MATCH LINE STA. 158+00

10+00C

11+00C

REMOVE CURB AND GUTTER
INSTALL TEMPORARY PAVEMENT

W1-4B

W06-3

35
M.P.H.
W013-1
24" X 24"

** = AREA TO BE MAINTAINED AT ALL TIMES FOR TURNING MOVEMENTS EXCEPT FOR SPECIFIC WORK OPERATIONS IN THIS AREA

PAVEMENT MARKING LEGEND

- (1) TEMPORARY PAVEMENT MARKING 4-INCH (DASHED WHITE)
- (7) TEMPORARY PAVEMENT MARKING ARROWS (TYP)
- (11) TEMPORARY PAVEMENT MARKING 8-INCH (CHANNELIZING)
- (13) TEMPORARY PAVEMENT MARKING STOP LINE 18-INCH

LEGEND

- WORK ZONE
- TEMPORARY PAVEMENT
- TEMPORARY CROSSWALK ACCESS
- TEMPORARY BUS STOP PAD
- TEMPORARY PAVEMENT TO BE USED IN FUTURE STAGES
- SIGNAL CONTROLLED INTERSECTION
- TRAFFIC FLOW ARROW
- DRUM WITH/WITHOUT LIGHT, TYPE C
- FLEXIBLE TUBULAR MARKERS
- SIGN MOUNTED ON POST
- SIGN MOUNTED ON TEMPORARY SUPPORT
- TYPE III BARRICADE WITH/WITHOUT SIGN
- REMOVING PAVEMENT MARKINGS

PROJECT NO: 2140-08-73	HWY: STH 181-N. 76TH ST.	COUNTY: MILWAUKEE	CONSTRUCTION STAGING - STAGE 2 PHASE II	SHEET 421	E

NOTE:

FOR SIDEWALK CLOSURE USE STANDARD DETAIL DRAWING "TRAFFIC CONTROL, SIDEWALK CLOSURE"

ALL TEMPORARY SOUTH BOUND PAVEMENT MARKINGS TO REMAIN IN STAGE 2 UNLESS OTHERWISE SPECIFIED

PAVEMENT MARKING LEGEND

(1) TEMPORARY PAVEMENT MARKING 4-INCH (DASHED WHITE)

(15) TEMPORARY PAVEMENT MARKING 4-INCH (DOUBLE YELLOW)

MOVE SIGN TO HERE

4-2 CALUMET RD 7600 N M1-94A

EXISTING SIGN TO BE MOVED

4-2 CALUMET RD 7600 N M1-94A

PLACED IN STAGE 1

ONE WAY R6-2R 18" X 24"

STH 181 / 76TH ST

10' 10' 10' 10'

7.5'(TYP) 25'(TYP) 50'(TYP)

MATCH LINE STA. 158+00

158+00 159+00 160+00 161+00 162+00 163+00 164+00

MATCH LINE STA. 164+00

STA. 160+64 RT MAINTAIN TEMPORARY ACCESS, SEE DETAIL

REMOVE CURB AND GUTTER INSTALL TEMPORARY PAVEMENT

4-1 NO OUTLET R7-1D 18" X 24"

4-4 NO OUTLET R7-1D 18" X 24"

LEGEND

- WORK ZONE
- TEMPORARY PAVEMENT
- TEMPORARY CROSSWALK ACCESS
- TEMPORARY BUS STOP PAD
- TEMPORARY PAVEMENT TO BE USED IN FUTURE STAGES
- SIGNAL CONTROLLED INTERSECTION
- TRAFFIC FLOW ARROW
- DRUM WITH/WITHOUT LIGHT, TYPE C
- FLEXIBLE TUBULAR MARKERS
- SIGN MOUNTED ON POST
- SIGN MOUNTED ON TEMPORARY SUPPORT
- TYPE III BARRICADE WITH/WITHOUT SIGN
- REMOVING PAVEMENT MARKINGS

PROJECT NO: 2140-08-73	HWY: STH 181-N. 76TH ST.	COUNTY: MILWAUKEE	CONSTRUCTION STAGING - STAGE 2	SHEET 422	E

2

NOTE:

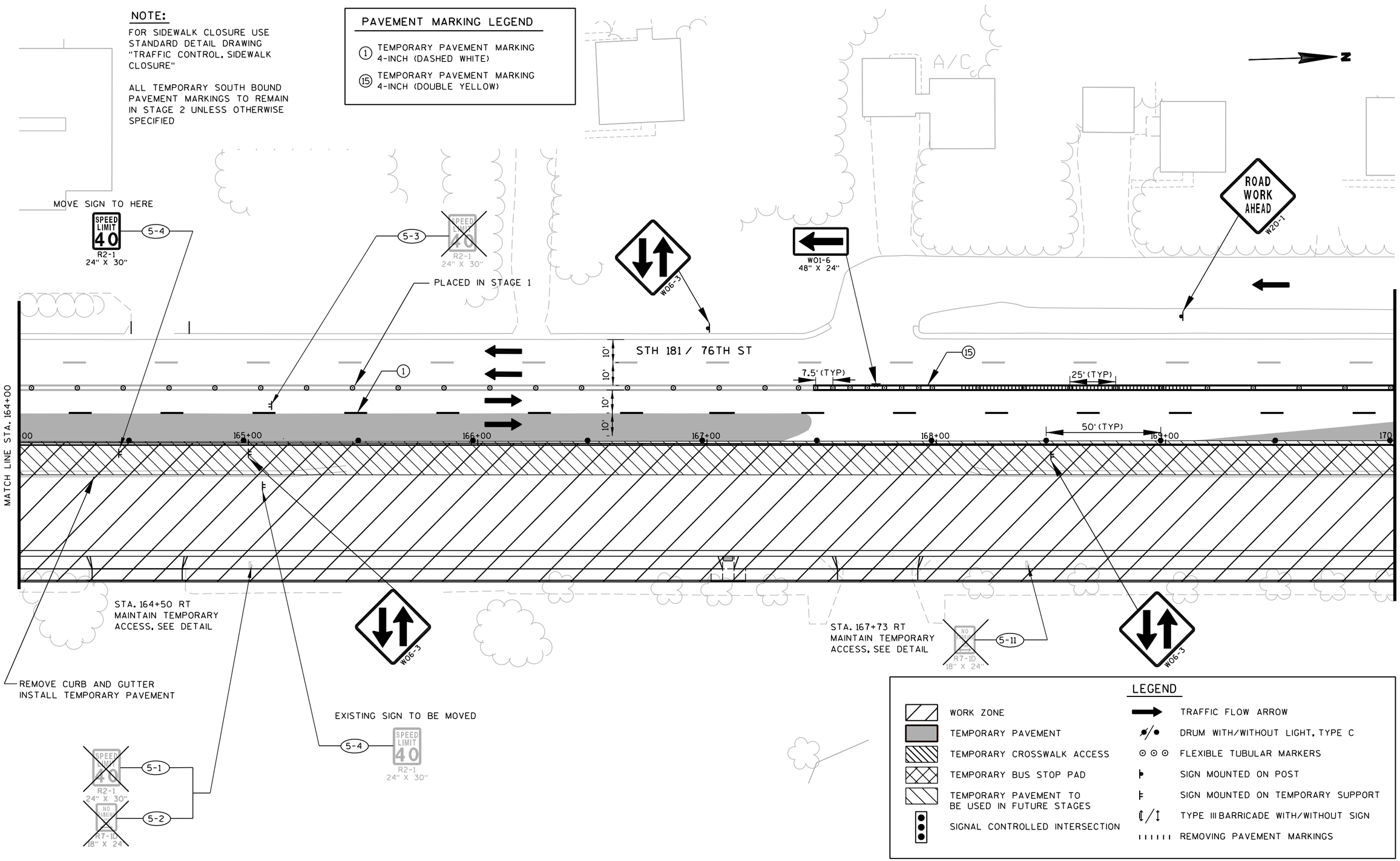
FOR SIDEWALK CLOSURE USE STANDARD DETAIL DRAWING "TRAFFIC CONTROL, SIDEWALK CLOSURE"

ALL TEMPORARY SOUTH BOUND PAVEMENT MARKINGS TO REMAIN IN STAGE 2 UNLESS OTHERWISE SPECIFIED

PAVEMENT MARKING LEGEND

(1) TEMPORARY PAVEMENT MARKING 4-INCH (DASHED WHITE)

(15) TEMPORARY PAVEMENT MARKING 4-INCH (DOUBLE YELLOW)



LEGEND

- WORK ZONE
- TEMPORARY PAVEMENT
- TEMPORARY CROSSWALK ACCESS
- TEMPORARY BUS STOP PAD
- TEMPORARY PAVEMENT TO BE USED IN FUTURE STAGES
- SIGNAL CONTROLLED INTERSECTION
- TRAFFIC FLOW ARROW
- DRUM WITH/WITHOUT LIGHT, TYPE C
- FLEXIBLE TUBULAR MARKERS
- SIGN MOUNTED ON POST
- SIGN MOUNTED ON TEMPORARY SUPPORT
- TYPE III BARRICADE WITH/WITHOUT SIGN
- REMOVING PAVEMENT MARKINGS

PROJECT NO: 2140-08-73	HWY: STH 181-N. 76TH ST.	COUNTY: MILWAUKEE	CONSTRUCTION STAGING - STAGE 2	SHEET 423	E

2

PAVEMENT MARKING LEGEND

(1) TEMPORARY PAVEMENT MARKING 4-INCH (DASHED WHITE)

(15) TEMPORARY PAVEMENT MARKING 4-INCH (DOUBLE YELLOW)

MOVE SIGN TO HERE

6-1 — Bradley Rd 8000 N — M1-94A

MOVE SIGN TO HERE

SPEED LIMIT 40 — R2-1 24" X 30" — 6-3

EXISTING SIGN TO BE MOVED

6-3 — SPEED LIMIT 40 — R2-1 24" X 30"

ROAD WORK AHEAD — W20-1 — 250'

W06-3

PLACED IN STAGE 1

END ROAD WORK — G20-2A 48" X 24"

NOTE:

FOR SIDEWALK CLOSURE USE STANDARD DETAIL DRAWING "TRAFFIC CONTROL, SIDEWALK CLOSURE"

ALL TEMPORARY SOUTH BOUND PAVEMENT MARKINGS TO REMAIN IN STAGE 2 UNLESS OTHERWISE SPECIFIED

ONE WAY — R6-2R 18" X 24"

MOVE SIGN TO HERE

6-25 — W3-3 36" X 36"

LOLITA AVE

STH 181 / 76TH ST

25'(TYP)

7.5'(TYP)

10' 10' 10' 10'

50'(TYP)

MATCH LINE STA. 170+00

170+00 171+00 172+00 173+00 174+00 175+00 176

MATCH LINE STA. 176+00

STA. 170+37 RT MAINTAIN TEMPORARY ACCESS, SEE DETAIL

REMOVE CURB AND GUTTER INSTALL TEMPORARY PAVEMENT

STA. 174+12 RT MAINTAIN TEMPORARY ACCESS, SEE DETAIL

W1-4B — 35 M.P.H. — W013-1 24" X 24"

EXISTING SIGN TO BE MOVED

6-25 — W3-3 36" X 36"

6-11 — RANSI

MOVE SIGN TO HERE

6-4 — SPEED LIMIT 40 — R2-1 24" X 30"

EXISTING SIGN TO BE MOVED

6-1 — Bradley Rd 8000 N — M1-94A

EXISTING SIGN TO BE MOVED

SPEED LIMIT 40 — R2-1 24" X 30" — 6-4

NO PARKING — R7-1D 18" X 24" — 6-5

W3-3 36" X 36" — 6-23

NO PARKING — R7-1D 18" X 24" — 6-24

LEGEND

- WORK ZONE
- TEMPORARY PAVEMENT
- TEMPORARY CROSSWALK ACCESS
- TEMPORARY BUS STOP PAD
- TEMPORARY PAVEMENT TO BE USED IN FUTURE STAGES
- SIGNAL CONTROLLED INTERSECTION
- TRAFFIC FLOW ARROW
- DRUM WITH/WITHOUT LIGHT, TYPE C
- FLEXIBLE TUBULAR MARKERS
- SIGN MOUNTED ON POST
- SIGN MOUNTED ON TEMPORARY SUPPORT
- TYPE III BARRICADE WITH/WITHOUT SIGN
- REMOVING PAVEMENT MARKINGS

PROJECT NO: 2140-08-73	HWY: STH 181-N. 76TH ST.	COUNTY: MILWAUKEE	CONSTRUCTION STAGING - STAGE 2	SHEET 424	E

2

2

PAVEMENT MARKING LEGEND

1. TEMPORARY PAVEMENT MARKING 4-INCH (DASHED WHITE)
7. TEMPORARY PAVEMENT MARKING ARROWS (TYP)
9. TEMPORARY PAVEMENT MARKING WORDS (TYP)
11. TEMPORARY PAVEMENT MARKING 8-INCH (CHANNELIZING)
13. TEMPORARY PAVEMENT MARKING STOP LINE 18-INCH
15. TEMPORARY PAVEMENT MARKING 4-INCH (DOUBLE YELLOW)

NOTE:

FOR SIDEWALK CLOSURE USE STANDARD DETAIL DRAWING "TRAFFIC CONTROL, SIDEWALK CLOSURE"

ALL TEMPORARY SOUTH BOUND PAVEMENT MARKINGS TO REMAIN IN STAGE 2 UNLESS OTHERWISE SPECIFIED

N

BRADLEY

CANOPY

WELL

PLACED IN STAGE 1

STH 181 / 76TH ST

MATCH LINE STA. 176+00

MATCH LINE STA. 182+00

176+00 177+00 178+00 179+00 180+00 181+00 182

25' (TYP)

10' 10' 10' 10'

8.00+11

18.00+10

100' 110' 50'

7-1 R2-1 24" X 30" SPEED LIMIT 40

W06-3

R4-7 24" X 30"

7-7 TRANSIT

7-11

REMOVE CURB AND GUTTER INSTALL TEMPORARY PAVEMENT

STA. 177+28 RT MAINTAIN TEMPORARY ACCESS, SEE DETAIL

MOVE SIGN TO HERE

7-22 SPEED LIMIT 40 R2-1 24" X 30"

EXISTING SIGN TO BE MOVED

W1-4B

35 M.P.H. W013-1 24" X 24"

MOVE SIGN TO HERE

7-17 NORTH 181 M3-1 24" X 12" M1-6 24" X 24" J1-1 24" X 39"

7-20 SPEED LIMIT 40 R2-1 24" X 30"

7-21 NO TURNING R7-1 24" X 24"

EXISTING SIGN TO BE MOVED

7-17 NORTH 181 M3-1 24" X 12" M1-6 24" X 24" J1-1 24" X 39"

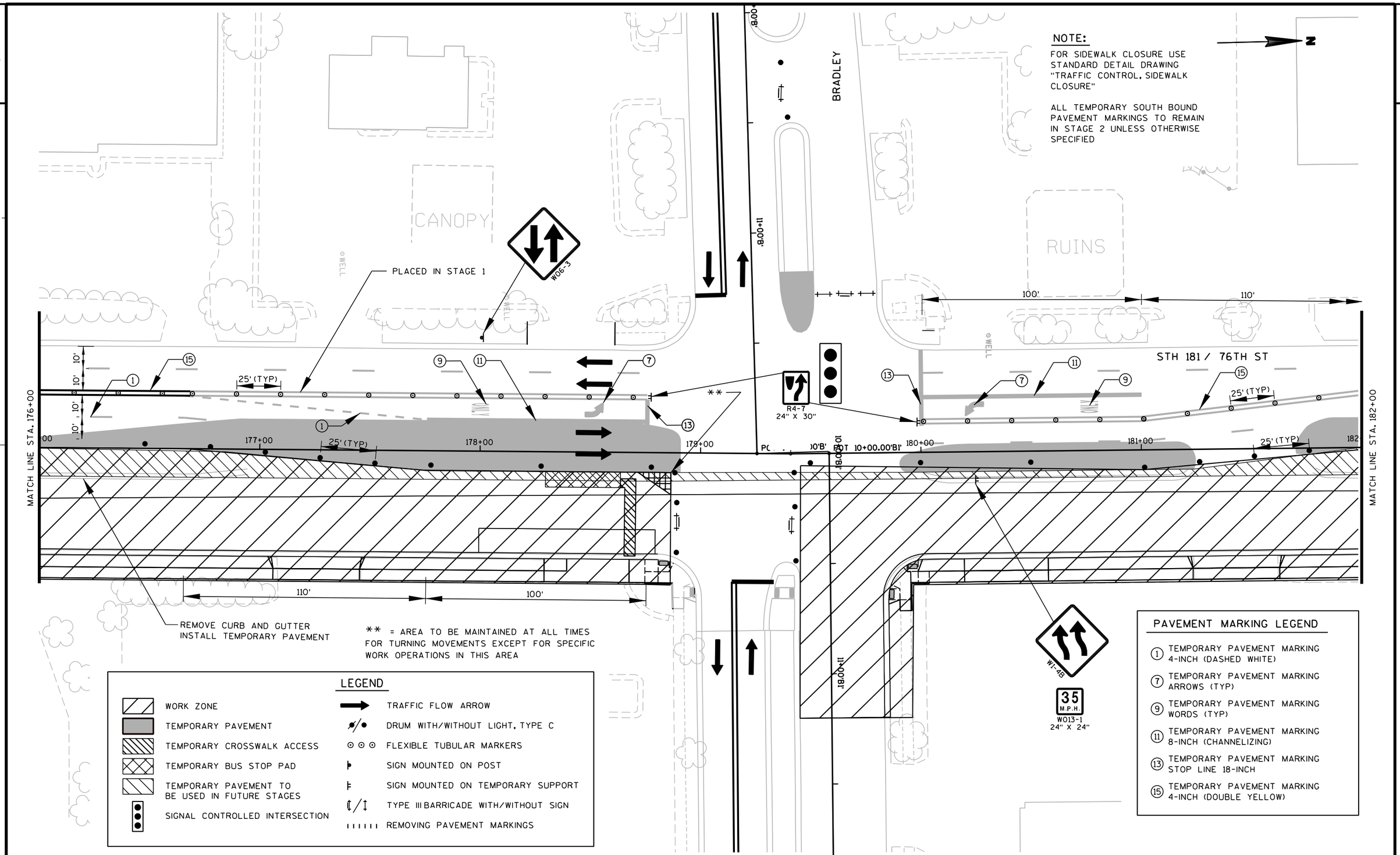
** = AREA TO BE MAINTAINED AT ALL TIMES FOR TURNING MOVEMENTS EXCEPT FOR SPECIFIC WORK OPERATIONS IN THIS AREA

LEGEND

- WORK ZONE
- TEMPORARY PAVEMENT
- TEMPORARY CROSSWALK ACCESS
- TEMPORARY BUS STOP PAD
- TEMPORARY PAVEMENT TO BE USED IN FUTURE STAGES
- SIGNAL CONTROLLED INTERSECTION
- TRAFFIC FLOW ARROW
- DRUM WITH/WITHOUT LIGHT, TYPE C
- FLEXIBLE TUBULAR MARKERS
- SIGN MOUNTED ON POST
- SIGN MOUNTED ON TEMPORARY SUPPORT
- TYPE III BARRICADE WITH/WITHOUT SIGN
- REMOVING PAVEMENT MARKINGS

PROJECT NO: 2140-08-73	HWY: STH 181-N. 76TH ST.	COUNTY: MILWAUKEE	CONSTRUCTION STAGING - STAGE 2 PHASE I	SHEET 425	E

2



PROJECT NO: 2140-08-73	HWY: STH 181-N. 76TH ST.	COUNTY: MILWAUKEE	CONSTRUCTION STAGING - STAGE 2 PHASE II	SHEET 426	E

NOTE:

FOR SIDEWALK CLOSURE USE STANDARD DETAIL DRAWING "TRAFFIC CONTROL, SIDEWALK CLOSURE"

ALL TEMPORARY SOUTH BOUND PAVEMENT MARKINGS TO REMAIN IN STAGE 2 UNLESS OTHERWISE SPECIFIED

MOVE SIGNS TO HERE

JCT M2-1 21" X 15" — 8-3

Bradley Rd 8000 N M1-94A — 8-4

EXISTING SIGNS TO BE MOVED

JCT M2-1 21" X 15" — 8-3

Bradley Rd 8000 N M1-94A — 8-4

ROAD WORK AHEAD W20-1

W06-3

250'

R4-7 24" X 30"

PLACED IN STAGE 1

110'

100'

STH 181 / 76TH ST

25'(TYP)

10'

50'(TYP)

MATCH LINE STA. 182+00

183+00

184+00

185+00

186+00

187+00

188

MATCH LINE STA. 188+00

+80.4 9.0' RT

+79.8 13.0' RT

TOWER AVE

END ROAD WORK G20-2A 48" X 24"

MOVE SIGN TO HERE

SPEED LIMIT 40 R2-1 24" X 30" — 8-17

15

3

STA. 182+76 RT MAINTAIN TEMPORARY ACCESS, SEE DETAIL

W1-4B

35 M.P.H. W013-1 24" X 24"

NO PARKING R7-1D 18" X 24" — 8-2

REMOVE CURB AND GUTTER INSTALL TEMPORARY PAVEMENT

TRANSIT — 8-8

STA. 186+50 RT MAINTAIN TEMPORARY ACCESS

W1-4B

35 M.P.H. W013-1 24" X 24"

EXISTING SIGN TO BE MOVED

SPEED LIMIT 40 R2-1 24" X 30" — 8-17

SPEED LIMIT 40 R2-1 24" X 30" — 8-15

NO PARKING R7-1D 18" X 24" — 8-16

PAVEMENT MARKING LEGEND

1. TEMPORARY PAVEMENT MARKING 4-INCH (DASHED WHITE)
7. TEMPORARY PAVEMENT MARKING ARROWS (TYP)
9. TEMPORARY PAVEMENT MARKING WORDS (TYP)
11. TEMPORARY PAVEMENT MARKING 8-INCH (CHANNELIZING)
13. TEMPORARY PAVEMENT MARKING STOP LINE 18-INCH
15. TEMPORARY PAVEMENT MARKING 4-INCH (DOUBLE YELLOW)

LEGEND

- WORK ZONE
- TEMPORARY PAVEMENT
- TEMPORARY CROSSWALK ACCESS
- TEMPORARY BUS STOP PAD
- TEMPORARY PAVEMENT TO BE USED IN FUTURE STAGES
- SIGNAL CONTROLLED INTERSECTION
- TRAFFIC FLOW ARROW
- DRUM WITH/WITHOUT LIGHT, TYPE C
- FLEXIBLE TUBULAR MARKERS
- SIGN MOUNTED ON POST
- SIGN MOUNTED ON TEMPORARY SUPPORT
- TYPE III BARRICADE WITH/WITHOUT SIGN
- REMOVING PAVEMENT MARKINGS

PROJECT NO: 2140-08-73	HWY: STH 181-N. 76TH ST.	COUNTY: MILWAUKEE	CONSTRUCTION STAGING - STAGE 2	SHEET 427	E

PAVEMENT MARKING LEGEND

(1) TEMPORARY PAVEMENT MARKING 4-INCH (DASHED WHITE)

(3) TEMPORARY PAVEMENT MARKING 4-INCH (WHITE)

(15) TEMPORARY PAVEMENT MARKING 4-INCH (DOUBLE YELLOW)

N

EXISTING SIGN TO BE MOVED

9-2

W3-3
36" X 36"

MOVE SIGN TO HERE

9-2

W3-3
36" X 36"

15

PLACED IN STAGE 1

10'
10'
10'

1

25' (TYP)

3

STH 181 / 76TH ST

MATCH LINE STA. 188+00

188+00

189+00

190+00

191+00

192+00

193+00

194

MATCH LINE STA. 194+00

W06-3

9-3

NO DRUM

R7-1D
18" X 24"

EXISTING SIGN TO BE MOVED

9-5

W5-52L
12" X 36"

MOVE SIGN TO HERE

9-5

W5-52L
12" X 36"

NOTE:

FOR SIDEWALK CLOSURE USE STANDARD DETAIL DRAWING "TRAFFIC CONTROL, SIDEWALK CLOSURE"

ALL TEMPORARY SOUTH BOUND PAVEMENT MARKINGS TO REMAIN IN STAGE 2 UNLESS OTHERWISE SPECIFIED

LEGEND

- WORK ZONE
- TEMPORARY PAVEMENT
- TEMPORARY CROSSWALK ACCESS
- TEMPORARY BUS STOP PAD
- TEMPORARY PAVEMENT TO BE USED IN FUTURE STAGES
- SIGNAL CONTROLLED INTERSECTION
- TRAFFIC FLOW ARROW
- DRUM WITH/WITHOUT LIGHT, TYPE C
- FLEXIBLE TUBULAR MARKERS
- SIGN MOUNTED ON POST
- SIGN MOUNTED ON TEMPORARY SUPPORT
- TYPE III BARRICADE WITH/WITHOUT SIGN
- REMOVING PAVEMENT MARKINGS

PROJECT NO: 2140-08-73	HWY: STH 181-N. 76TH ST.	COUNTY: MILWAUKEE	CONSTRUCTION STAGING - STAGE 2	SHEET 428	E

2

N

PLACED IN STAGE 1

1

25' (TYP)

10'
10'
10'

STH 181 / 76TH ST

MATCH LINE STA. 194+00

195+00

196+00

197+00

198+00

199+00

200

MATCH LINE STA. 200+00

10-2

R7-1D
18" X 24"

EXISTING SIGN TO BE MOVED

10-4

W3-3
36" X 36"

MOVE SIGN TO HERE

10-4

W3-3
36" X 36"

10-6

R7-1D
18" X 24"

10-8

R2-1
24" X 30"

EXISTING SIGN TO BE MOVED

10-9

SPEED LIMIT 40

R2-1
24" X 30"

MOVE SIGN TO HERE

10-9

SPEED LIMIT 40

R2-1
24" X 30"

PAVEMENT MARKING LEGEND

① TEMPORARY PAVEMENT MARKING 4-INCH (DASHED WHITE)

NOTE:

FOR SIDEWALK CLOSURE USE STANDARD DETAIL DRAWING "TRAFFIC CONTROL, SIDEWALK CLOSURE"

ALL TEMPORARY SOUTH BOUND PAVEMENT MARKINGS TO REMAIN IN STAGE 2 UNLESS OTHERWISE SPECIFIED

LEGEND

- WORK ZONE
- TEMPORARY PAVEMENT
- TEMPORARY CROSSWALK ACCESS
- TEMPORARY BUS STOP PAD
- TEMPORARY PAVEMENT TO BE USED IN FUTURE STAGES
- SIGNAL CONTROLLED INTERSECTION
- TRAFFIC FLOW ARROW
- DRUM WITH/WITHOUT LIGHT, TYPE C
- FLEXIBLE TUBULAR MARKERS
- SIGN MOUNTED ON POST
- SIGN MOUNTED ON TEMPORARY SUPPORT
- TYPE III BARRICADE WITH/WITHOUT SIGN
- REMOVING PAVEMENT MARKINGS

PROJECT NO: 2140-08-73	HWY: STH 181-N. 76TH ST.	COUNTY: MILWAUKEE	CONSTRUCTION STAGING - STAGE 2	SHEET 429	E

PAVEMENT MARKING LEGEND

1. TEMPORARY PAVEMENT MARKING 4-INCH (DASHED WHITE)
7. TEMPORARY PAVEMENT MARKING ARROWS (TYP)
9. TEMPORARY PAVEMENT MARKING WORDS (TYP)
11. TEMPORARY PAVEMENT MARKING 8-INCH (CHANNELIZING)
13. TEMPORARY PAVEMENT MARKING STOP LINE 18-INCH

** = AREA TO BE MAINTAINED AT ALL TIMES FOR TURNING MOVEMENTS EXCEPT FOR SPECIFIC WORK OPERATIONS IN THIS AREA

NOTE:

FOR SIDEWALK CLOSURE USE STANDARD DETAIL DRAWING "TRAFFIC CONTROL, SIDEWALK CLOSURE"

ALL TEMPORARY SOUTH BOUND PAVEMENT MARKINGS TO REMAIN IN STAGE 2 UNLESS OTHERWISE SPECIFIED

MOVE SIGN TO HERE
11-2
W3-3
36" X 36"

EXISTING SIGN TO BE MOVED
11-2
W3-3
36" X 36"

PLACED IN STAGE 1

MOVE SIGN TO HERE
SPEED LIMIT 40
R2-1
24" X 30"
11-8

W0G5-3

110'
100'

DEAN RD

MATCH LINE STA. 200+00

25'(TYP)
10'
10'
10'

STH 181 / 76TH ST

200+00
201+00
202+00
203+00
204+00
205+00
206+00

MATCH LINE STA. 206+00

MOVE SIGN TO HERE
11-5
W11-2
30" X 30"

11-3
W3-3
36" X 36"

11-4
NO TRUCKS
R7-10
18" X 24"

W11-2
30" X 30"
11-5
EXISTING SIGN TO BE MOVED

W1-4B
35 M.P.H.
W013-1
24" X 24"

EXISTING SIGN TO BE MOVED
SPEED LIMIT 40
R2-1
24" X 30"
11-8

11-6
NO TRUCKS
R7-10
18" X 24"
11-7
TRANSIT

LEGEND

- WORK ZONE
- TEMPORARY PAVEMENT
- TEMPORARY CROSSWALK ACCESS
- TEMPORARY BUS STOP PAD
- TEMPORARY PAVEMENT TO BE USED IN FUTURE STAGES
- SIGNAL CONTROLLED INTERSECTION
- TRAFFIC FLOW ARROW
- DRUM WITH/WITHOUT LIGHT, TYPE C
- FLEXIBLE TUBULAR MARKERS
- SIGN MOUNTED ON POST
- SIGN MOUNTED ON TEMPORARY SUPPORT
- TYPE III BARRICADE WITH/WITHOUT SIGN
- REMOVING PAVEMENT MARKINGS

PROJECT NO: 2140-08-73	HWY: STH 181-N. 76TH ST.	COUNTY: MILWAUKEE	CONSTRUCTION STAGING - STAGE 2	SHEET 430 E

2

NOTE:

FOR SIDEWALK CLOSURE USE STANDARD DETAIL DRAWING "TRAFFIC CONTROL, SIDEWALK CLOSURE"

ALL TEMPORARY SOUTH BOUND PAVEMENT MARKINGS TO REMAIN IN STAGE 2 UNLESS OTHERWISE SPECIFIED

* PLACED IN STAGE 1

PAVEMENT MARKING LEGEND

1. TEMPORARY PAVEMENT MARKING 4-INCH (DASHED WHITE)
7. TEMPORARY PAVEMENT MARKING ARROWS (TYP)
9. TEMPORARY PAVEMENT MARKING WORDS (TYP)
11. TEMPORARY PAVEMENT MARKING 8-INCH (CHANNELIZING)
13. TEMPORARY PAVEMENT MARKING STOP LINE 18-INCH

MOVE SIGN TO HERE

12-8 — W11-2, 30" X 30"

MOVE SIGNS TO HERE

12-10 — JCT 100, M 2-1 21" X 15", M1-6 24" X 24", J1-1 24" X 39"

12-11 — Brown Deer Rd 8800 N, M1-94A

MOVE SIGN TO HERE

12-13 — SPEED LIMIT 45, R2-1 24" X 30"

EXISTING SIGN TO BE MOVED

12-13 — SPEED LIMIT 45, R2-1 24" X 30"

12-14 — NO LIVING, R7-1D 18" X 24"

PLACED IN STAGE 1

W06-3

LANE CLOSED, R11-2(MOD) 48" X 30"

100'

110'

25' (TYP)

10'

10'

10'

DEAN RD

STH 181 / 76TH ST

MATCH LINE STA. 206+00

MATCH LINE STA. 212+00

207+00

208+00

209+00

210+00

211+00

212

EXISTING SIGN TO BE MOVED

12-8 — W11-2, 30" X 30"

W1-4B

35 M.P.H., W013-1 24" X 24"

12-9

12-5 — R7-1D 18" X 24"

EXISTING SIGNS TO MOVE

12-10 — JCT 100, M 2-1 21" X 15", M1-6 24" X 24", J1-1 24" X 39"

12-11 — Brown Deer Rd 8800 N, M1-94A

STA. 209+32 RT
MAINTAIN TEMPORARY
ACCESS, SEE DETAIL

STA. 209+79 RT
MAINTAIN TEMPORARY
ACCESS, SEE DETAIL

LEGEND

- WORK ZONE
- TEMPORARY PAVEMENT
- TEMPORARY CROSSWALK ACCESS
- TEMPORARY BUS STOP PAD
- TEMPORARY PAVEMENT TO BE USED IN FUTURE STAGES
- SIGNAL CONTROLLED INTERSECTION
- TRAFFIC FLOW ARROW
- DRUM WITH/WITHOUT LIGHT, TYPE C
- FLEXIBLE TUBULAR MARKERS
- SIGN MOUNTED ON POST
- SIGN MOUNTED ON TEMPORARY SUPPORT
- TYPE III BARRICADE WITH/WITHOUT SIGN
- REMOVING PAVEMENT MARKINGS

PROJECT NO: 2140-08-73	HWY: STH 181-N. 76TH ST.	COUNTY: MILWAUKEE	CONSTRUCTION STAGING - STAGE 2	SHEET 431	E

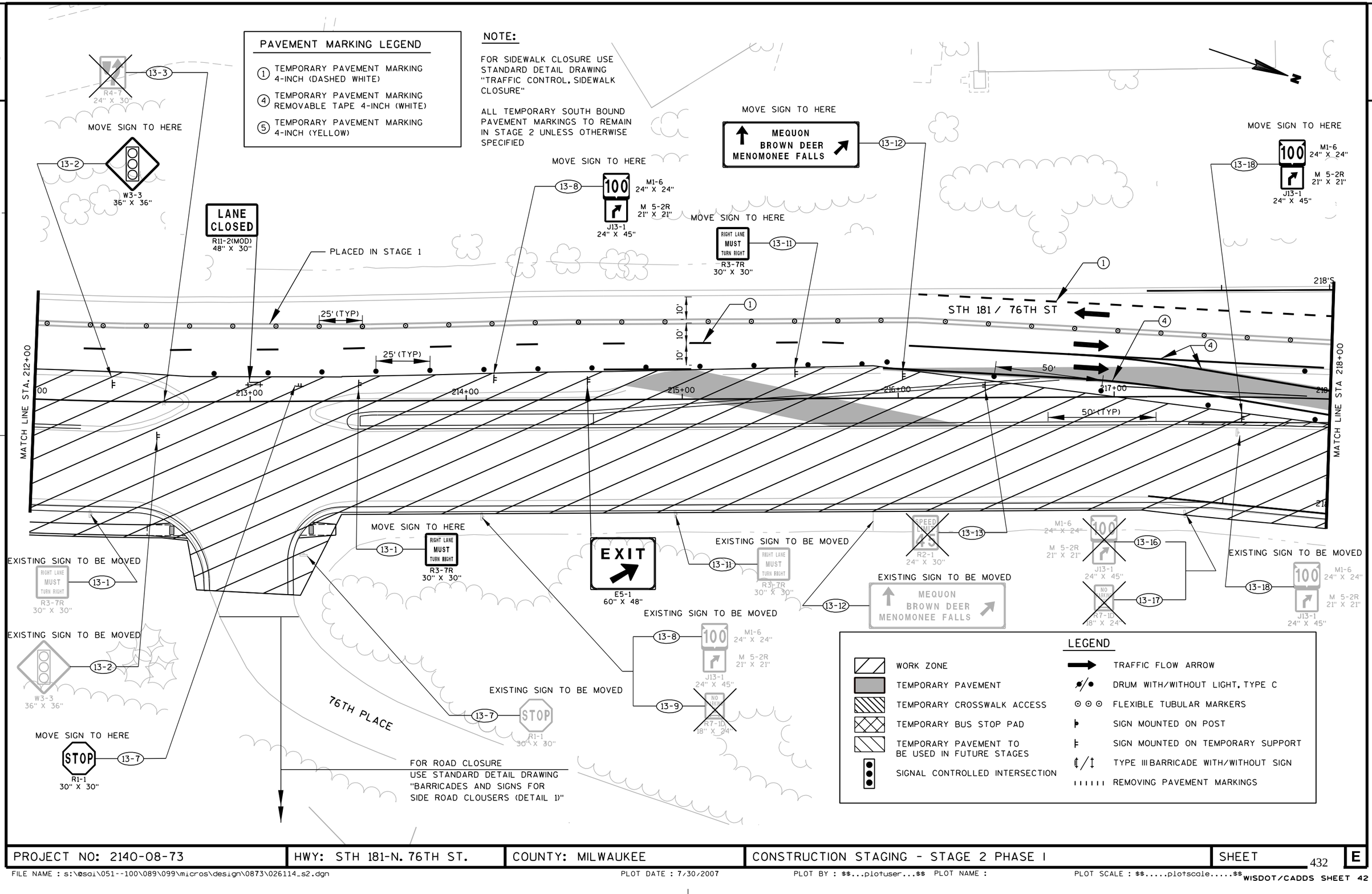
PAVEMENT MARKING LEGEND

1. TEMPORARY PAVEMENT MARKING 4-INCH (DASHED WHITE)
4. TEMPORARY PAVEMENT MARKING REMOVABLE TAPE 4-INCH (WHITE)
5. TEMPORARY PAVEMENT MARKING 4-INCH (YELLOW)

NOTE:

FOR SIDEWALK CLOSURE USE STANDARD DETAIL DRAWING "TRAFFIC CONTROL, SIDEWALK CLOSURE"

ALL TEMPORARY SOUTH BOUND PAVEMENT MARKINGS TO REMAIN IN STAGE 2 UNLESS OTHERWISE SPECIFIED



LEGEND

- WORK ZONE
- TEMPORARY PAVEMENT
- TEMPORARY CROSSWALK ACCESS
- TEMPORARY BUS STOP PAD
- TEMPORARY PAVEMENT TO BE USED IN FUTURE STAGES
- SIGNAL CONTROLLED INTERSECTION
- TRAFFIC FLOW ARROW
- DRUM WITH/WITHOUT LIGHT, TYPE C
- FLEXIBLE TUBULAR MARKERS
- SIGN MOUNTED ON POST
- SIGN MOUNTED ON TEMPORARY SUPPORT
- TYPE III BARRICADE WITH/WITHOUT SIGN
- REMOVING PAVEMENT MARKINGS

PROJECT NO: 2140-08-73	HWY: STH 181-N. 76TH ST.	COUNTY: MILWAUKEE	CONSTRUCTION STAGING - STAGE 2 PHASE 1	SHEET 432	E

2

PAVEMENT MARKING LEGEND

(1) TEMPORARY PAVEMENT MARKING 4-INCH (DASHED WHITE)

(4) TEMPORARY PAVEMENT MARKING REMOVABLE TAPE 4-INCH (WHITE)

(6) TEMPORARY PAVEMENT MARKING REMOVABLE TAPE 4-INCH (YELLOW)

ROAD CLOSED
R11-2
48" X 30"

PLACED IN STAGE 1

STH 181 / 76TH ST

MATCH LINE STA. 212+00

MATCH LINE STA 218+00

25' (TYP)

10'

11'

213+00

214+00

215+00

216+00

217+00

218

+0.0 'TSW'
0.0'RT

RIGHT LANE MUST TURN RIGHT
R3-7R
30" X 30"

EXIT
E5-1
60" X 48"

FOR ROAD CLOSURE
USE STANDARD DETAIL DRAWING
"BARRICADES AND SIGNS FOR
SIDE ROAD CLOUSERS (DETAIL 1)"

76TH PLACE

NOTE:

FOR SIDEWALK CLOSURE USE STANDARD DETAIL DRAWING "TRAFFIC CONTROL, SIDEWALK CLOSURE"

ALL TEMPORARY SOUTH BOUND PAVEMENT MARKINGS TO REMAIN IN STAGE 2 UNLESS OTHERWISE SPECIFIED

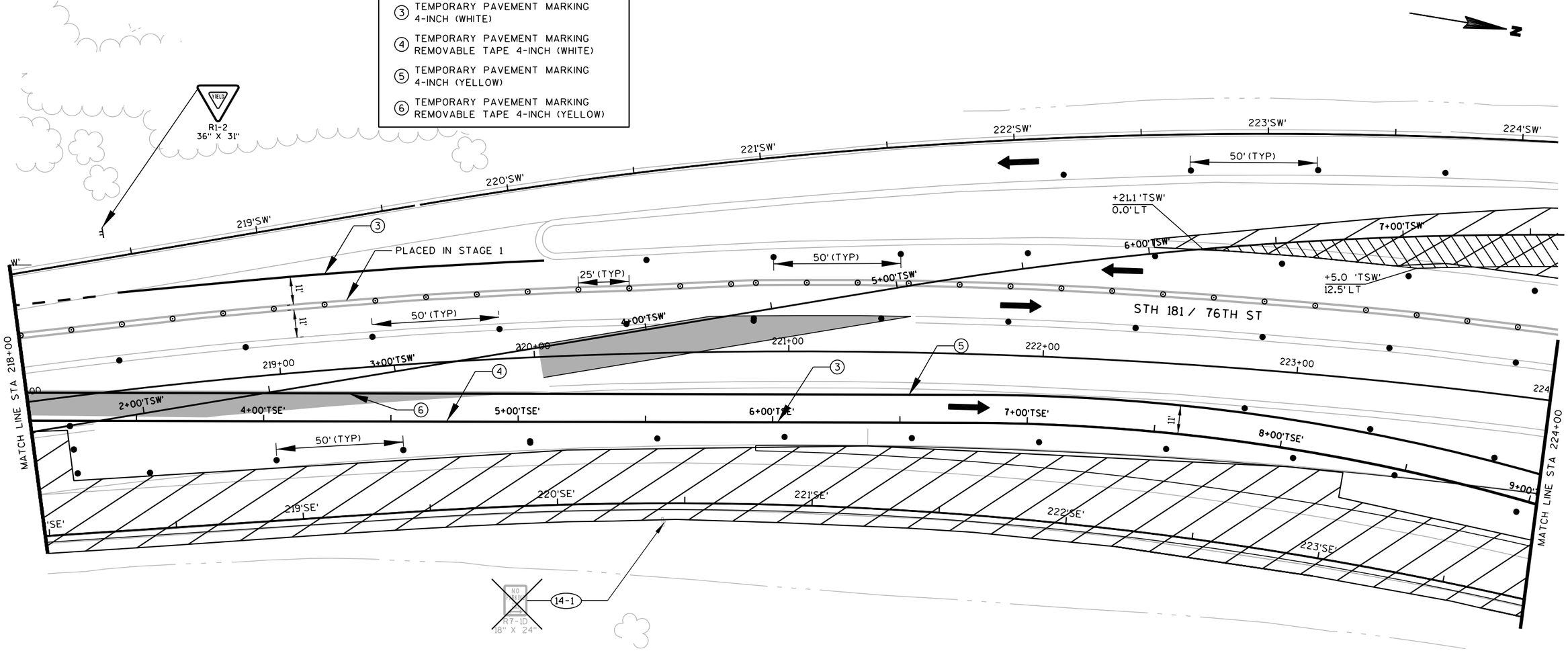
LEGEND

- WORK ZONE
- TEMPORARY PAVEMENT
- TEMPORARY CROSSWALK ACCESS
- TEMPORARY BUS STOP PAD
- TEMPORARY PAVEMENT TO BE USED IN FUTURE STAGES
- SIGNAL CONTROLLED INTERSECTION
- TRAFFIC FLOW ARROW
- DRUM WITH/WITHOUT LIGHT, TYPE C
- FLEXIBLE TUBULAR MARKERS
- SIGN MOUNTED ON POST
- SIGN MOUNTED ON TEMPORARY SUPPORT
- TYPE III BARRICADE WITH/WITHOUT SIGN
- REMOVING PAVEMENT MARKINGS

PROJECT NO: 2140-08-73	HWY: STH 181-N. 76TH ST.	COUNTY: MILWAUKEE	CONSTRUCTION STAGING - STAGE 2 PHASE II	SHEET 433	E

PAVEMENT MARKING LEGEND

- (3) TEMPORARY PAVEMENT MARKING 4-INCH (WHITE)
- (4) TEMPORARY PAVEMENT MARKING REMOVABLE TAPE 4-INCH (WHITE)
- (5) TEMPORARY PAVEMENT MARKING 4-INCH (YELLOW)
- (6) TEMPORARY PAVEMENT MARKING REMOVABLE TAPE 4-INCH (YELLOW)



NOTE:

FOR SIDEWALK CLOSURE USE STANDARD DETAIL DRAWING "TRAFFIC CONTROL, SIDEWALK CLOSURE"

ALL TEMPORARY SOUTH BOUND PAVEMENT MARKINGS TO REMAIN IN STAGE 2 UNLESS OTHERWISE SPECIFIED

LEGEND

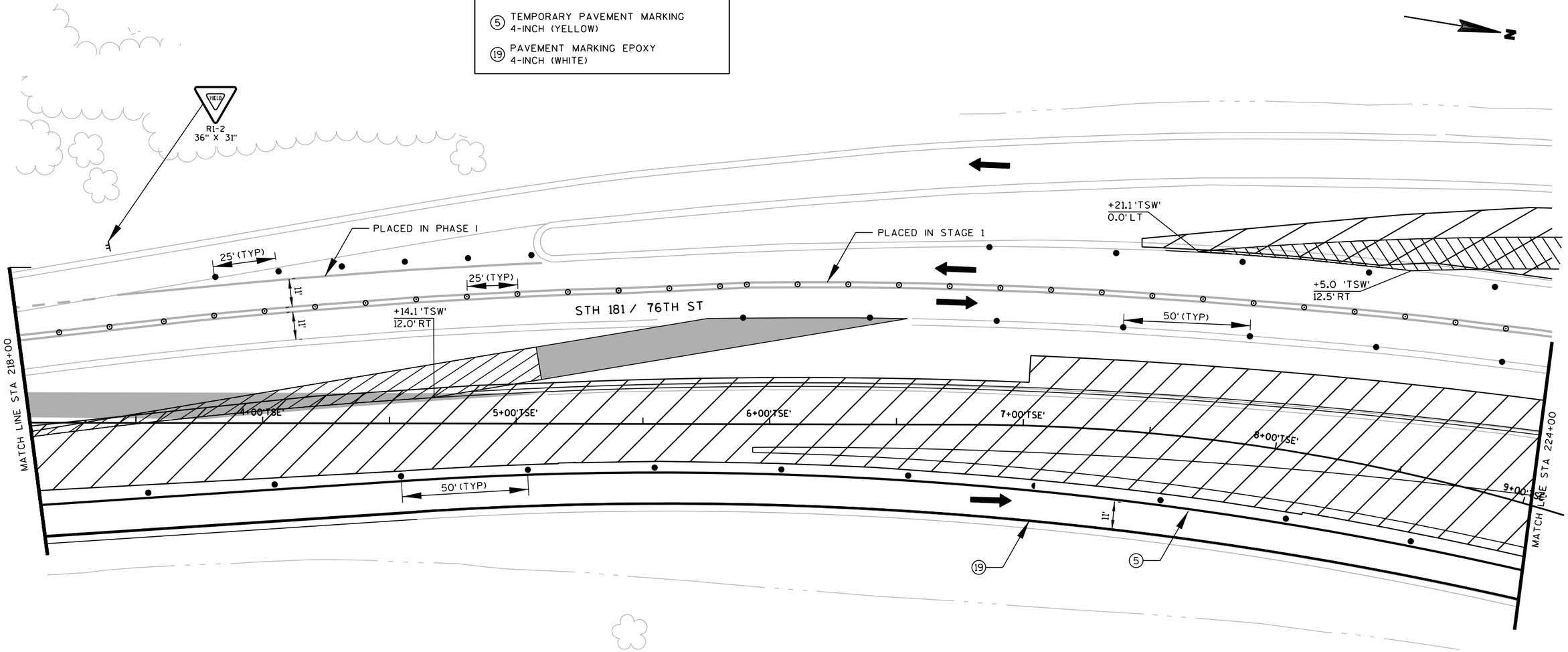
- WORK ZONE
- TEMPORARY PAVEMENT
- TEMPORARY CROSSWALK ACCESS
- TEMPORARY BUS STOP PAD
- TEMPORARY PAVEMENT TO BE USED IN FUTURE STAGES
- SIGNAL CONTROLLED INTERSECTION
- TRAFFIC FLOW ARROW
- DRUM WITH/WITHOUT LIGHT, TYPE C
- FLEXIBLE TUBULAR MARKERS
- SIGN MOUNTED ON POST
- SIGN MOUNTED ON TEMPORARY SUPPORT
- TYPE III BARRICADE WITH/WITHOUT SIGN
- REMOVING PAVEMENT MARKINGS

PROJECT NO: 2140-08-73	HWY: STH 181-N. 76TH ST.	COUNTY: MILWAUKEE	CONSTRUCTION STAGING - STAGE 2 PHASE 1	SHEET 434 E

PAVEMENT MARKING LEGEND

(5) TEMPORARY PAVEMENT MARKING 4-INCH (YELLOW)

(19) PAVEMENT MARKING EPOXY 4-INCH (WHITE)



NOTE:

FOR SIDEWALK CLOSURE USE STANDARD DETAIL DRAWING "TRAFFIC CONTROL, SIDEWALK CLOSURE"

ALL TEMPORARY SOUTH BOUND PAVEMENT MARKINGS TO REMAIN IN STAGE 2 UNLESS OTHERWISE SPECIFIED

LEGEND

- WORK ZONE
- TEMPORARY PAVEMENT
- TEMPORARY CROSSWALK ACCESS
- TEMPORARY BUS STOP PAD
- TEMPORARY PAVEMENT TO BE USED IN FUTURE STAGES
- SIGNAL CONTROLLED INTERSECTION
- TRAFFIC FLOW ARROW
- DRUM WITH/WITHOUT LIGHT, TYPE C
- FLEXIBLE TUBULAR MARKERS
- SIGN MOUNTED ON POST
- SIGN MOUNTED ON TEMPORARY SUPPORT
- TYPE III BARRICADE WITH/WITHOUT SIGN
- REMOVING PAVEMENT MARKINGS

PROJECT NO: 2140-08-73	HWY: STH 181-N. 76TH ST.	COUNTY: MILWAUKEE	CONSTRUCTION STAGING - STAGE 2 PHASE II	SHEET 435	E

2

EXISTING SIGN TO BE MOVED

26-1 — 100 M1-6 24" X 24" — M 6-2 21" X 21" — J13-1 24" X 45"

MOVE SIGN TO HERE

26-1 — 100 M1-6 24" X 24" — M 6-2 21" X 21" — J13-1 24" X 45"

PAVEMENT MARKING LEGEND

(3) TEMPORARY PAVEMENT MARKING 4-INCH (WHITE)

(5) TEMPORARY PAVEMENT MARKING 4-INCH (YELLOW)

NOTE:

FOR SIDEWALK CLOSURE USE STANDARD DETAIL DRAWING "TRAFFIC CONTROL, SIDEWALK CLOSURE"

ALL TEMPORARY SOUTH BOUND PAVEMENT MARKINGS TO REMAIN IN STAGE 2 UNLESS OTHERWISE SPECIFIED

MOVE SIGN TO HERE

26-4 — MENOMONEE FALLS / BROWN DEER

26-5 — ONLY — R3-8A 30" X 36"

225'SW' 226'SW' 227'SW' 230'SW'

13'

50' (TYP)

PLACED IN STAGE 1

50' (TYP)

12' 12'

STH 181 / 76TH ST

25' (TYP)

225+00 226+00 227+00 228+00 229+00 230

MATCH LINE STA. 224+00

MATCH LINE STA. 230+00

(5) (3)

15-5 — NO TURNING — R7-1D 18" X 24"

EXISTING SIGN TO BE MOVED

26-6 — WRONG WAY — R5-1A 36" X 24"

MOVE SIGN TO HERE

26-6 — WRONG WAY — R5-1A 36" X 24"

224'SE' 225'SE' 226'SE' 227'SE' 228'SE' 229'SE'

EXISTING SIGN TO BE MOVED

26-2 — W3-3 36" X 36"

MOVE SIGN TO HERE

26-2 — W3-3 36" X 36"

EXISTING SIGN TO BE MOVED

26-3 — WEST EAST 100 100 — J3-2 48" X 57"

MOVE SIGN TO HERE

M1-6 24" X 24"

26-3 — WEST EAST 100 100 — J3-2 48" X 57"

EXISTING SIGN TO BE MOVED

26-4 — MENOMONEE FALLS / BROWN DEER

26-5 — ONLY — R3-8A 30" X 36"

LEGEND

- WORK ZONE
- TEMPORARY PAVEMENT
- TEMPORARY CROSSWALK ACCESS
- TEMPORARY BUS STOP PAD
- TEMPORARY PAVEMENT TO BE USED IN FUTURE STAGES
- SIGNAL CONTROLLED INTERSECTION
- TRAFFIC FLOW ARROW
- DRUM WITH/WITHOUT LIGHT, TYPE C
- FLEXIBLE TUBULAR MARKERS
- SIGN MOUNTED ON POST
- SIGN MOUNTED ON TEMPORARY SUPPORT
- TYPE III BARRICADE WITH/WITHOUT SIGN
- REMOVING PAVEMENT MARKINGS

PROJECT NO: 2140-08-73	HWY: STH 181-N. 76TH ST.	COUNTY: MILWAUKEE	CONSTRUCTION STAGING - STAGE 2 PHASE 1	SHEET 436	E

2

PAVEMENT MARKING LEGEND

(5) TEMPORARY PAVEMENT MARKING 4-INCH (YELLOW)

(19) PAVEMENT MARKING EPOXY 4-INCH (WHITE)

N

225'SW' 226'SW' 227'SW' 228'SW' 229'SW' 230'SW'

13'

8+00'TSW' 9+00'TSW' 10+00'TSW' 11+00'TSW' 12+00'TSW' 13+00'TSW' 14+

50' (TYP)

PLACED IN STAGE 1

STH 181 / 76TH ST

12' 12'

25' (TYP)

225+00 226+00 227+00 228+00 229+00

MATCH LINE STA. 224+00

MATCH LINE STA. 230+00

10+00'TSE' 11+00'TSE' 12+00'TSE' 13+00'TSE' 14+00'TSE'

224'SE' 225'SE' 226'SE' 227'SE' 228'SE' 229'SE'

17'

50' (TYP)

LEGEND

- WORK ZONE
- TEMPORARY PAVEMENT
- TEMPORARY CROSSWALK ACCESS
- TEMPORARY BUS STOP PAD
- TEMPORARY PAVEMENT TO BE USED IN FUTURE STAGES
- SIGNAL CONTROLLED INTERSECTION
- TRAFFIC FLOW ARROW
- DRUM WITH/WITHOUT LIGHT, TYPE C
- FLEXIBLE TUBULAR MARKERS
- SIGN MOUNTED ON POST
- SIGN MOUNTED ON TEMPORARY SUPPORT
- TYPE III BARRICADE WITH/WITHOUT SIGN
- REMOVING PAVEMENT MARKINGS

NOTE:

FOR SIDEWALK CLOSURE USE STANDARD DETAIL DRAWING "TRAFFIC CONTROL, SIDEWALK CLOSURE"

ALL TEMPORARY SOUTH BOUND PAVEMENT MARKINGS TO REMAIN IN STAGE 2 UNLESS OTHERWISE SPECIFIED

PROJECT NO: 2140-08-73	HWY: STH 181-N. 76TH ST.	COUNTY: MILWAUKEE	CONSTRUCTION STAGING - STAGE 2 PHASE II	SHEET 437	E

2

231+00'SW'

232+00'SW'

231+00'SW'

50' (TYP)

NOTE:

FOR SIDEWALK CLOSURE USE STANDARD DETAIL DRAWING "TRAFFIC CONTROL, SIDEWALK CLOSURE"

ALL TEMPORARY SOUTH BOUND PAVEMENT MARKINGS TO REMAIN IN STAGE 2 UNLESS OTHERWISE SPECIFIED

PLACED IN STAGE 1

BROWN DEER RD & STH 100

121+00BD'

122+00BD'

123+00BD'

124+00BD'

236+00'NW'

LEGEND

- WORK ZONE
- TEMPORARY PAVEMENT
- TEMPORARY CROSSWALK ACCESS
- TEMPORARY BUS STOP PAD
- TEMPORARY PAVEMENT TO BE USED IN FUTURE STAGES
- SIGNAL CONTROLLED INTERSECTION
- TRAFFIC FLOW ARROW
- DRUM WITH/WITHOUT LIGHT, TYPE C
- FLEXIBLE TUBULAR MARKERS
- SIGN MOUNTED ON POST
- SIGN MOUNTED ON TEMPORARY SUPPORT
- TYPE III BARRICADE WITH/WITHOUT SIGN
- REMOVING PAVEMENT MARKINGS

25' (TYP)

STH 181 / 76TH ST

50' (TYP)

12'

12'

MATCH LINE STA. 230+00

231+00

232+00

233+00

234+00

235+00

236

MATCH LINE STA. 236+00

16-2

NO TURN

R7-1D

18" X 24"

16-4

NO TURN

R7-1D

18" X 24"

230+00SE'

230+00SE'

231+00SE'

232+00SE'

234+00'NE'

235+00'NE'

PROJECT NO: 2140-08-73	HWY: STH 181-N. 76TH ST.	COUNTY: MILWAUKEE	CONSTRUCTION STAGING - STAGE 2 PHASE 1	SHEET 438	E

2

231'SW'

232+00'SW'

231+00'SW'

234+00'NW'

235+00'NW'

236+00'NW'

BROWN DEER RD & STH 100

121+00'BD'

NOTE:

FOR SIDEWALK CLOSURE USE STANDARD DETAIL DRAWING "TRAFFIC CONTROL, SIDEWALK CLOSURE"

ALL TEMPORARY SOUTH BOUND PAVEMENT MARKINGS TO REMAIN IN STAGE 2 UNLESS OTHERWISE SPECIFIED

PLACED IN STAGE 1

LEGEND

- WORK ZONE
- TEMPORARY PAVEMENT
- TEMPORARY CROSSWALK ACCESS
- TEMPORARY BUS STOP PAD
- TEMPORARY PAVEMENT TO BE USED IN FUTURE STAGES
- SIGNAL CONTROLLED INTERSECTION
- TRAFFIC FLOW ARROW
- DRUM WITH/WITHOUT LIGHT, TYPE C
- FLEXIBLE TUBULAR MARKERS
- SIGN MOUNTED ON POST
- SIGN MOUNTED ON TEMPORARY SUPPORT
- TYPE III BARRICADE WITH/WITHOUT SIGN
- REMOVING PAVEMENT MARKINGS

25' (TYP)

50' (TYP)

STH 181 / 76TH ST

122+00'BD'

12'

12'

50' (TYP)

MATCH LINE STA. 230+00

231+00

232+00

233+00

234+00

235+00

236

MATCH LINE STA. 236+00

123+00'BD'

124+00'BD'

230'SE'

231'SE'

234+00'NE'

235+00'NE'

2

PROJECT NO: 2140-08-73	HWY: STH 181-N. 76TH ST.	COUNTY: MILWAUKEE	CONSTRUCTION STAGING - STAGE 2 PHASE II	SHEET	E

FILE NAME : s:\@sdi\051--100\089\099\micros\design\0873\026117_s2_phase ii.dgn PLOT DATE : 7/30/2007 PLOT BY : $$...plotuser...$$ PLOT NAME : PLOT SCALE : $$.....plotscale.....$$ WISDOT/CADDS SHEET 42

PAVEMENT MARKING LEGEND

(3) TEMPORARY PAVEMENT MARKING 4-INCH (WHITE)

(5) TEMPORARY PAVEMENT MARKING 4-INCH (YELLOW)

NOTE:

FOR SIDEWALK CLOSURE USE STANDARD DETAIL DRAWING "TRAFFIC CONTROL, SIDEWALK CLOSURE"

ALL TEMPORARY SOUTH BOUND PAVEMENT MARKINGS TO REMAIN IN STAGE 2 UNLESS OTHERWISE SPECIFIED

LEGEND

- WORK ZONE
- TEMPORARY PAVEMENT
- TEMPORARY CROSSWALK ACCESS
- TEMPORARY BUS STOP PAD
- TEMPORARY PAVEMENT TO BE USED IN FUTURE STAGES
- SIGNAL CONTROLLED INTERSECTION
- TRAFFIC FLOW ARROW
- DRUM WITH/WITHOUT LIGHT, TYPE C
- FLEXIBLE TUBULAR MARKERS
- SIGN MOUNTED ON POST
- SIGN MOUNTED ON TEMPORARY SUPPORT
- TYPE III BARRICADE WITH/WITHOUT SIGN
- REMOVING PAVEMENT MARKINGS

N

MATCH LINE STA. 236+00

MATCH LINE STA. 242+00

'TNW'

4+00'TNW'

6+00'TNW'

+40.5 'TNW' 12.5'RT

+79.2 'TNW' 0.0'LT

7+00'TNW'

239'NW'

240'NW'

241'NW'

242'NW'

12'

25' (TYP)

50' (TYP)

PLACED IN STAGE 1

STH 181 / 76TH ST

8+00'TNW'

9+00'TNW'

9+00'TNE'

8+00'TNE'

7+00'TNE'

6+00'TNE'

5+00'TNE'

4+00'TNE'

'TNE'

236+00

237+00

238+00

239+00

240+00

241+00

242

236+00'NE'

237+00'NE'

238'NE'

239'NE'

240'NE'

241'NE'

237'NE'

17-9

W3-3 36" X 36"

MOVE SIGN TO HERE

29-2

R1-2 36" X 31"

YIELD

17-3

NO PARKING

R7-1D 18" X 24"

17-5

W4-1 30" X 30"

EXISTING SIGN TO BE MOVED

17-6

17-7

17-11

2

LEGEND

- WORK ZONE
- TEMPORARY PAVEMENT
- TEMPORARY CROSSWALK ACCESS
- TEMPORARY BUS STOP PAD
- TEMPORARY PAVEMENT TO BE USED IN FUTURE STAGES
- SIGNAL CONTROLLED INTERSECTION
- TRAFFIC FLOW ARROW
- DRUM WITH/WITHOUT LIGHT, TYPE C
- FLEXIBLE TUBULAR MARKERS
- SIGN MOUNTED ON POST
- SIGN MOUNTED ON TEMPORARY SUPPORT
- TYPE III BARRICADE WITH/WITHOUT SIGN
- REMOVING PAVEMENT MARKINGS

N

+40.5 'TNW'
12.5' RT

+79.2 'TNW'
0.0' LT

PLACED IN STAGE 1

12'

240'NW'

241'NW'

242'NW'

25' (TYP)

50' (TYP)

12'

12'

3

STH 181 / 76TH ST

MATCH LINE STA. 236+00

237+00

238+00

239+00

240+00

241+00

242

MATCH LINE STA. 242+00

+45.9 'TNW'
1.0 LT

+32.9 'TNW'
12.9' RT

241'NE'

240'NE'

239'NE'

238'NE'

237'NE'

236+00'NE'

237+00'NE'

NOTE:

FOR SIDEWALK CLOSURE USE STANDARD DETAIL DRAWING "TRAFFIC CONTROL, SIDEWALK CLOSURE"

ALL TEMPORARY SOUTH BOUND PAVEMENT MARKINGS TO REMAIN IN STAGE 2 UNLESS OTHERWISE SPECIFIED

PROJECT NO: 2140-08-73	HWY: STH 181-N. 76TH ST.	COUNTY: MILWAUKEE	CONSTRUCTION STAGING - STAGE 2 PHASE II	SHEET 441	E

PAVEMENT MARKING LEGEND

① TEMPORARY PAVEMENT MARKING 4-INCH (DASHED WHITE)

③ TEMPORARY PAVEMENT MARKING 4-INCH (WHITE)

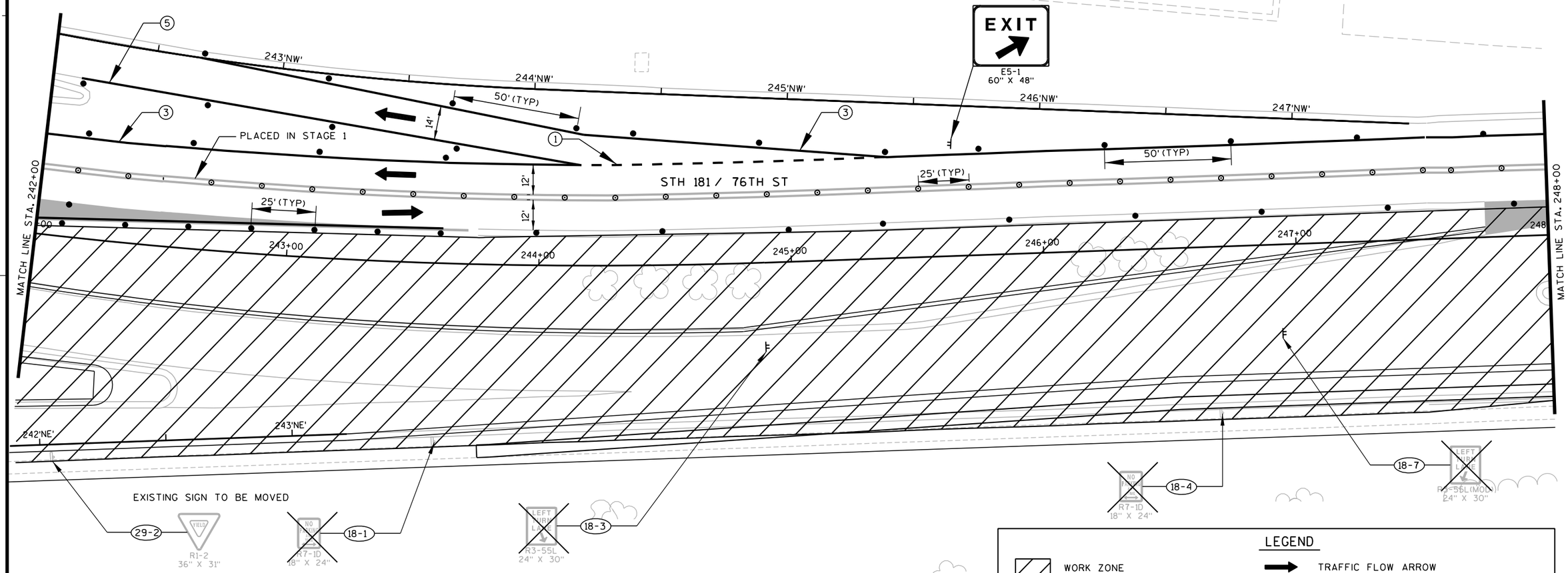
⑤ TEMPORARY PAVEMENT MARKING 4-INCH (YELLOW)

NOTE:

FOR SIDEWALK CLOSURE USE STANDARD DETAIL DRAWING "TRAFFIC CONTROL, SIDEWALK CLOSURE"

ALL TEMPORARY SOUTH BOUND PAVEMENT MARKINGS TO REMAIN IN STAGE 2 UNLESS OTHERWISE SPECIFIED

N



LEGEND

- WORK ZONE
- TEMPORARY PAVEMENT
- TEMPORARY CROSSWALK ACCESS
- TEMPORARY BUS STOP PAD
- TEMPORARY PAVEMENT TO BE USED IN FUTURE STAGES
- SIGNAL CONTROLLED INTERSECTION
- TRAFFIC FLOW ARROW
- DRUM WITH/WITHOUT LIGHT, TYPE C
- FLEXIBLE TUBULAR MARKERS
- SIGN MOUNTED ON POST
- SIGN MOUNTED ON TEMPORARY SUPPORT
- TYPE III BARRICADE WITH/WITHOUT SIGN
- REMOVING PAVEMENT MARKINGS

PROJECT NO: 2140-08-73	HWY: STH 181-N. 76TH ST.	COUNTY: MILWAUKEE	CONSTRUCTION STAGING - STAGE 2 PHASE 1	SHEET 442	E

2

2

PAVEMENT MARKING LEGEND

(3) TEMPORARY PAVEMENT MARKING 4-INCH (WHITE)

(5) TEMPORARY PAVEMENT MARKING 4-INCH (YELLOW)

NOTE:

FOR SIDEWALK CLOSURE USE STANDARD DETAIL DRAWING "TRAFFIC CONTROL, SIDEWALK CLOSURE"

ALL TEMPORARY SOUTH BOUND PAVEMENT MARKINGS TO REMAIN IN STAGE 2 UNLESS OTHERWISE SPECIFIED

N

EXIT
E5-1
60" X 48"

W01-4R

35 M.P.H.
W013-1
24" X 24"

PLACED IN STAGE 1

50' (TYP)

14'

12'

12'

25' (TYP)

50'

243'NW'

244'NW'

245'NW'

246'NW'

247'NW'

STH 181 / 76TH ST

MATCH LINE STA. 242+00

MATCH LINE STA. 248+00

243+00

244+00

245+00

246+00

247+00

248

242'NE'

243'NE'

50' (TYP)

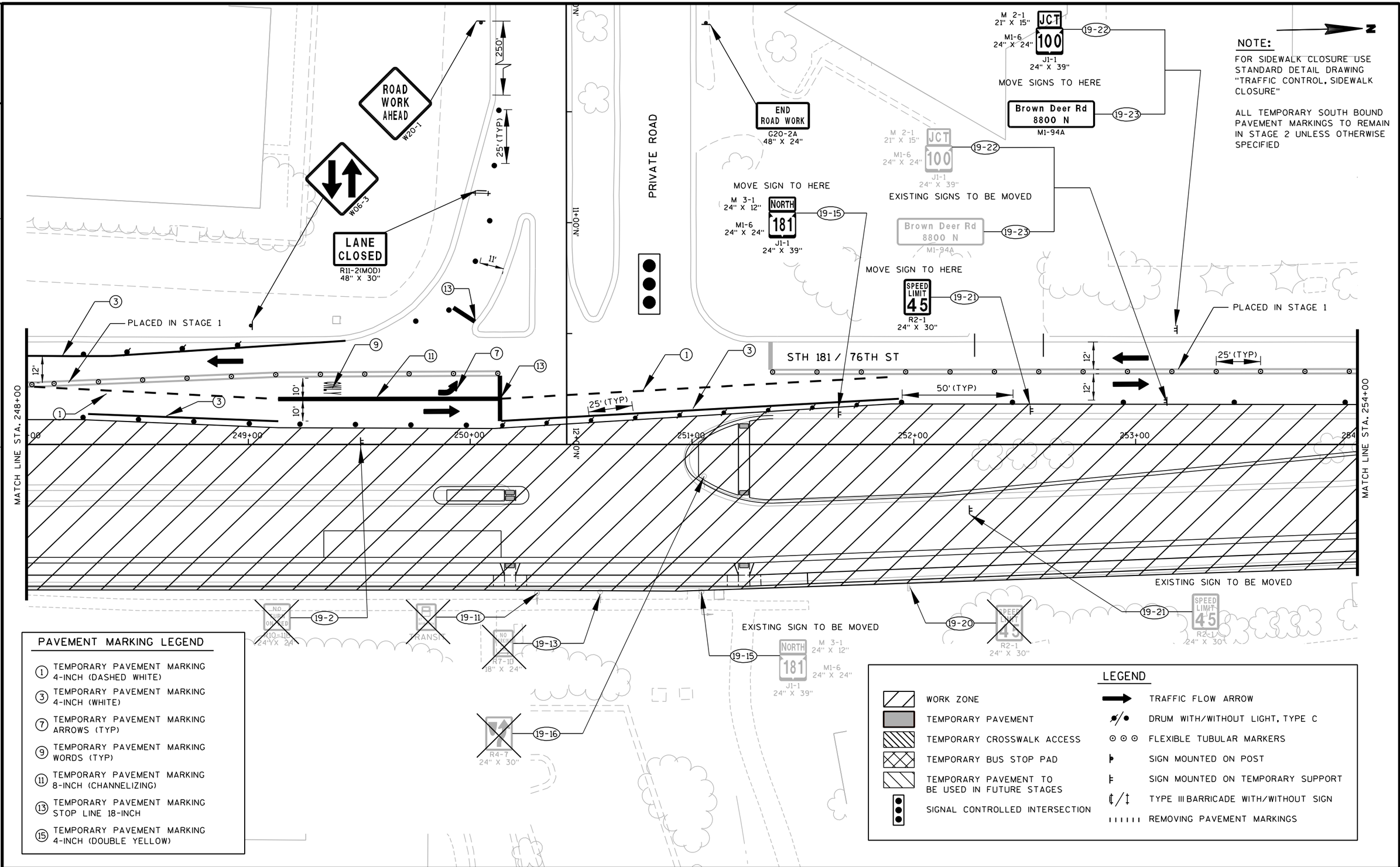
25' (TYP)

25' (TYP)

LEGEND

- WORK ZONE
- TEMPORARY PAVEMENT
- TEMPORARY CROSSWALK ACCESS
- TEMPORARY BUS STOP PAD
- TEMPORARY PAVEMENT TO BE USED IN FUTURE STAGES
- SIGNAL CONTROLLED INTERSECTION
- TRAFFIC FLOW ARROW
- DRUM WITH/WITHOUT LIGHT, TYPE C
- FLEXIBLE TUBULAR MARKERS
- SIGN MOUNTED ON POST
- SIGN MOUNTED ON TEMPORARY SUPPORT
- TYPE III BARRICADE WITH/WITHOUT SIGN
- REMOVING PAVEMENT MARKINGS

PROJECT NO: 2140-08-73	HWY: STH 181-N. 76TH ST.	COUNTY: MILWAUKEE	CONSTRUCTION STAGING - STAGE 2 PHASE II	SHEET 443	E



PAVEMENT MARKING LEGEND

- (1) TEMPORARY PAVEMENT MARKING 4-INCH (DASHED WHITE)
- (3) TEMPORARY PAVEMENT MARKING 4-INCH (WHITE)
- (7) TEMPORARY PAVEMENT MARKING ARROWS (TYP)
- (9) TEMPORARY PAVEMENT MARKING WORDS (TYP)
- (11) TEMPORARY PAVEMENT MARKING 8-INCH (CHANNELIZING)
- (13) TEMPORARY PAVEMENT MARKING STOP LINE 18-INCH
- (15) TEMPORARY PAVEMENT MARKING 4-INCH (DOUBLE YELLOW)

LEGEND

- WORK ZONE
- TEMPORARY PAVEMENT
- TEMPORARY CROSSWALK ACCESS
- TEMPORARY BUS STOP PAD
- TEMPORARY PAVEMENT TO BE USED IN FUTURE STAGES
- SIGNAL CONTROLLED INTERSECTION
- TRAFFIC FLOW ARROW
- DRUM WITH/WITHOUT LIGHT, TYPE C
- FLEXIBLE TUBULAR MARKERS
- SIGN MOUNTED ON POST
- SIGN MOUNTED ON TEMPORARY SUPPORT
- TYPE III BARRICADE WITH/WITHOUT SIGN
- REMOVING PAVEMENT MARKINGS

PROJECT NO: 2140-08-73	HWY: STH 181-N. 76TH ST.	COUNTY: MILWAUKEE	CONSTRUCTION STAGING - STAGE 2	SHEET 444	E

NOTE:

FOR SIDEWALK CLOSURE USE STANDARD DETAIL DRAWING "TRAFFIC CONTROL, SIDEWALK CLOSURE"

ALL TEMPORARY SOUTH BOUND PAVEMENT MARKINGS TO REMAIN IN STAGE 2 UNLESS OTHERWISE SPECIFIED

* PLACED IN STAGE 1

PRIVATE ROAD

STH 181 / 76TH ST

W01-4R

W06-3

W1-4B

35 M.P.H. W013-1 24" X 24"

LANE CLOSED R11-2(MOD) 48" X 30"

MATCH LINE STA. 254+00

MATCH LINE STA. 260+00

11+00 N.L.

10+00 N.L.

25' (TYP)

50' (TYP)

12'

10'

255+00

256+00

257+00

258+00

259+00

260

R1-2 36" X 31"

TRANSIT

R4-7 24" X 30"

R1-10 18" X 24"

NO TURNS

20-2

20-5

20-8

20-12

** = AREA TO BE MAINTAINED AT ALL TIMES FOR TURNING MOVEMENTS EXCEPT FOR SPECIFIC WORK OPERATIONS IN THIS AREA

NORTHRIDGE LAKES BLVD

PAVEMENT MARKING LEGEND

⑦ TEMPORARY PAVEMENT MARKING ARROWS (TYP)

⑨ TEMPORARY PAVEMENT MARKING WORDS (TYP)

⑪ TEMPORARY PAVEMENT MARKING 8-INCH (CHANNELIZING)

⑬ TEMPORARY PAVEMENT MARKING STOP LINE 18-INCH

⑭ TEMPORARY PAVEMENT MARKING STOP LINE REMOVABLE TAPE 18-INCH

⑮ TEMPORARY PAVEMENT MARKING 4-INCH (DOUBLE YELLOW)

⑯ TEMPORARY PAVEMENT MARKING REMOVABLE TAPE 4-INCH (DOUBLE YELLOW)

LEGEND

- WORK ZONE
- TEMPORARY PAVEMENT
- TEMPORARY CROSSWALK ACCESS
- TEMPORARY BUS STOP PAD
- TEMPORARY PAVEMENT TO BE USED IN FUTURE STAGES
- SIGNAL CONTROLLED INTERSECTION
- TRAFFIC FLOW ARROW
- DRUM WITH/WITHOUT LIGHT, TYPE C
- FLEXIBLE TUBULAR MARKERS
- SIGN MOUNTED ON POST
- SIGN MOUNTED ON TEMPORARY SUPPORT
- TYPE III BARRICADE WITH/WITHOUT SIGN
- REMOVING PAVEMENT MARKINGS

PROJECT NO: 2140-08-73	HWY: STH 181-N. 76TH ST.	COUNTY: MILWAUKEE	CONSTRUCTION STAGING - STAGE 2 PHASE I	SHEET 445	E

2

NOTE:

FOR SIDEWALK CLOSURE USE STANDARD DETAIL DRAWING "TRAFFIC CONTROL, SIDEWALK CLOSURE"

ALL TEMPORARY SOUTH BOUND PAVEMENT MARKINGS TO REMAIN IN STAGE 2 UNLESS OTHERWISE SPECIFIED

* PLACED IN PHASE I

PAVEMENT MARKING LEGEND

- (7) TEMPORARY PAVEMENT MARKING ARROWS (TYP)
- (9) TEMPORARY PAVEMENT MARKING WORDS (TYP)
- (11) TEMPORARY PAVEMENT MARKING 8-INCH (CHANNELIZING)
- (13) TEMPORARY PAVEMENT MARKING STOP LINE 18-INCH
- (14) TEMPORARY PAVEMENT MARKING STOP LINE REMOVABLE TAPE 18-INCH
- (15) TEMPORARY PAVEMENT MARKING 4-INCH (DOUBLE YELLOW)
- (16) TEMPORARY PAVEMENT MARKING REMOVABLE TAPE 4-INCH (DOUBLE YELLOW)

** = AREA TO BE MAINTAINED AT ALL TIMES FOR TURNING MOVEMENTS EXCEPT FOR SPECIFIC WORK OPERATIONS IN THIS AREA

N

W01-4R

35 M.P.H.

W013-1 24" X 24"

W06-3

16'

19'

PRIVATE ROAD

LANE CLOSED

R11-2(MOD) 48" X 30"

STH 181 / 76TH ST

12'

12'

25' (TYP)

50' (TYP)

10'

MATCH LINE STA. 254+00

MATCH LINE STA. 260+00

NORTHRIDGE LAKES BLVD

LEGEND

- WORK ZONE
- TEMPORARY PAVEMENT
- TEMPORARY CROSSWALK ACCESS
- TEMPORARY BUS STOP PAD
- TEMPORARY PAVEMENT TO BE USED IN FUTURE STAGES
- SIGNAL CONTROLLED INTERSECTION
- TRAFFIC FLOW ARROW
- DRUM WITH/WITHOUT LIGHT, TYPE C
- FLEXIBLE TUBULAR MARKERS
- SIGN MOUNTED ON POST
- SIGN MOUNTED ON TEMPORARY SUPPORT
- TYPE III BARRICADE WITH/WITHOUT SIGN
- REMOVING PAVEMENT MARKINGS

PROJECT NO: 2140-08-73	HWY: STH 181-N. 76TH ST.	COUNTY: MILWAUKEE	CONSTRUCTION STAGING - STAGE 2 PHASE II	SHEET	E

FILE NAME : s:\@sai\051--100\089\099\micros\design\0873\026121_s2_phase ii.dgn PLOT DATE : 7/30/2007 PLOT BY : $$...plotuser...$$ PLOT NAME : PLOT SCALE : $$.....plotscale.....$$ WISDOT/CADDS SHEET 42

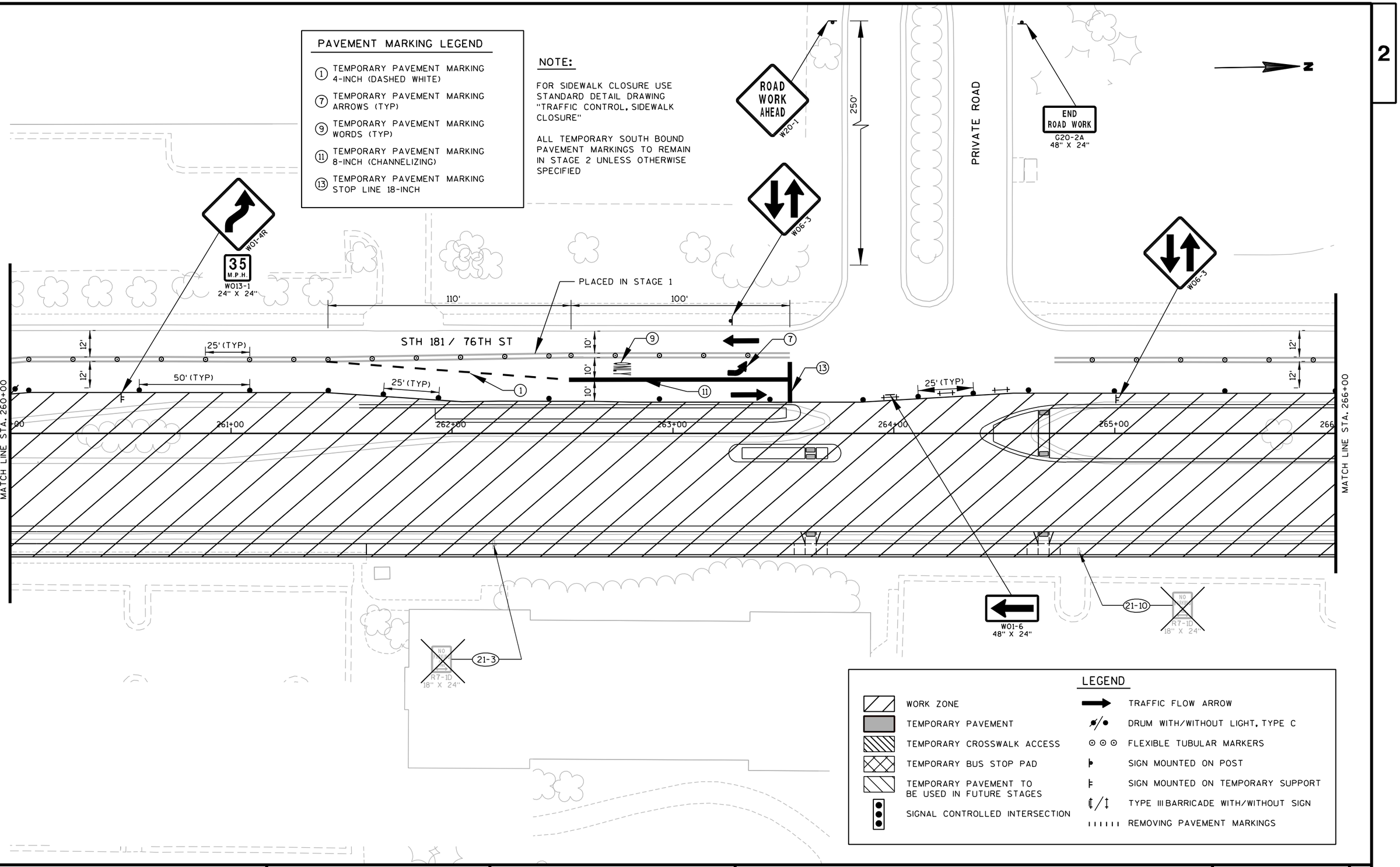
PAVEMENT MARKING LEGEND

1. TEMPORARY PAVEMENT MARKING 4-INCH (DASHED WHITE)
7. TEMPORARY PAVEMENT MARKING ARROWS (TYP)
9. TEMPORARY PAVEMENT MARKING WORDS (TYP)
11. TEMPORARY PAVEMENT MARKING 8-INCH (CHANNELIZING)
13. TEMPORARY PAVEMENT MARKING STOP LINE 18-INCH

NOTE:

FOR SIDEWALK CLOSURE USE STANDARD DETAIL DRAWING "TRAFFIC CONTROL, SIDEWALK CLOSURE"

ALL TEMPORARY SOUTH BOUND PAVEMENT MARKINGS TO REMAIN IN STAGE 2 UNLESS OTHERWISE SPECIFIED



LEGEND

- WORK ZONE
- TEMPORARY PAVEMENT
- TEMPORARY CROSSWALK ACCESS
- TEMPORARY BUS STOP PAD
- TEMPORARY PAVEMENT TO BE USED IN FUTURE STAGES
- SIGNAL CONTROLLED INTERSECTION
- TRAFFIC FLOW ARROW
- DRUM WITH/WITHOUT LIGHT, TYPE C
- FLEXIBLE TUBULAR MARKERS
- SIGN MOUNTED ON POST
- SIGN MOUNTED ON TEMPORARY SUPPORT
- TYPE III BARRICADE WITH/WITHOUT SIGN
- REMOVING PAVEMENT MARKINGS

PROJECT NO: 2140-08-73	HWY: STH 181-N. 76TH ST.	COUNTY: MILWAUKEE	CONSTRUCTION STAGING - STAGE 2	SHEET 447	E

2

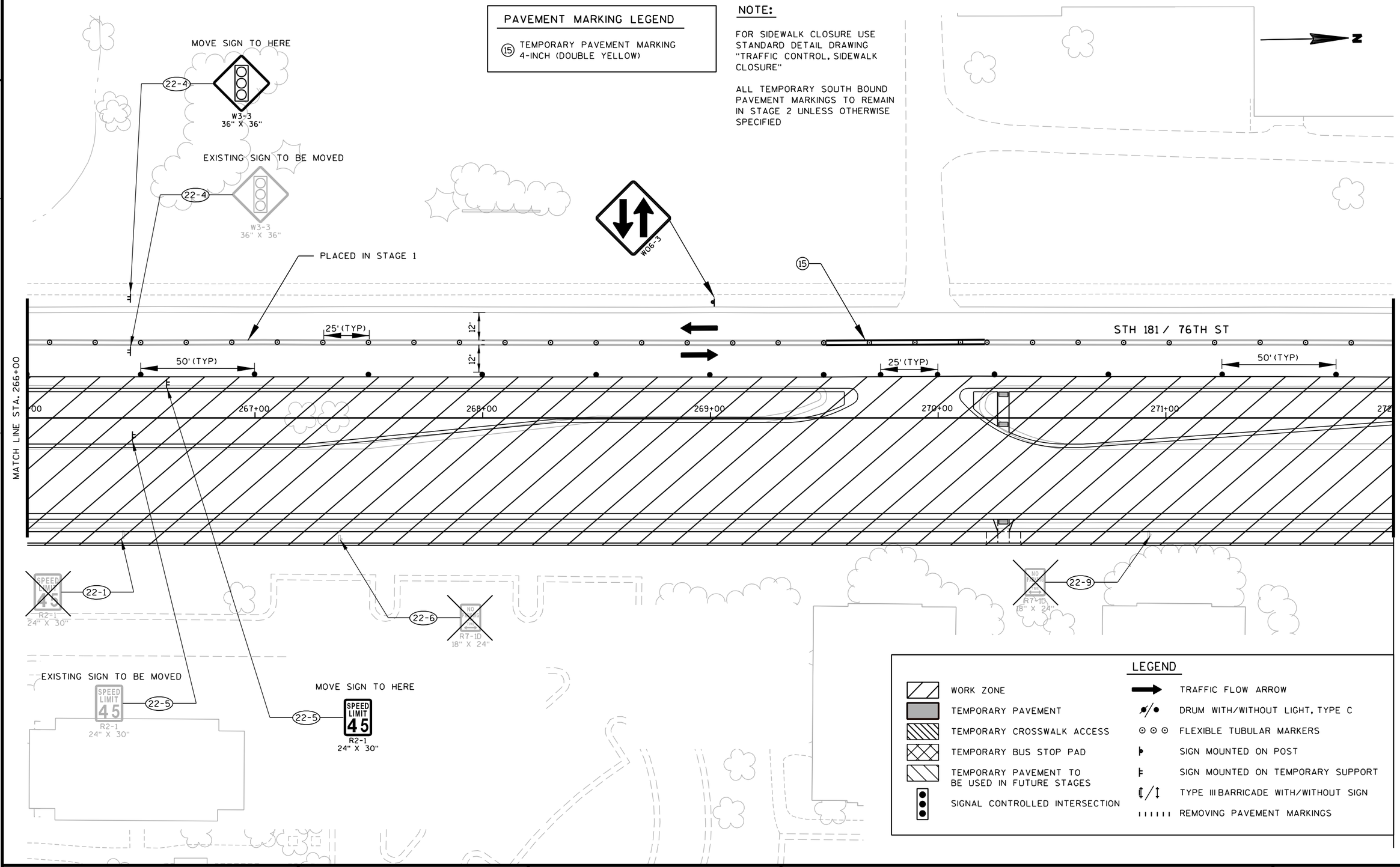
PAVEMENT MARKING LEGEND

(15) TEMPORARY PAVEMENT MARKING 4-INCH (DOUBLE YELLOW)

NOTE:

FOR SIDEWALK CLOSURE USE STANDARD DETAIL DRAWING "TRAFFIC CONTROL, SIDEWALK CLOSURE"

ALL TEMPORARY SOUTH BOUND PAVEMENT MARKINGS TO REMAIN IN STAGE 2 UNLESS OTHERWISE SPECIFIED



LEGEND

- WORK ZONE
- TEMPORARY PAVEMENT
- TEMPORARY CROSSWALK ACCESS
- TEMPORARY BUS STOP PAD
- TEMPORARY PAVEMENT TO BE USED IN FUTURE STAGES
- SIGNAL CONTROLLED INTERSECTION
- TRAFFIC FLOW ARROW
- DRUM WITH/WITHOUT LIGHT, TYPE C
- FLEXIBLE TUBULAR MARKERS
- SIGN MOUNTED ON POST
- SIGN MOUNTED ON TEMPORARY SUPPORT
- TYPE III BARRICADE WITH/WITHOUT SIGN
- REMOVING PAVEMENT MARKINGS

PROJECT NO: 2140-08-73	HWY: STH 181-N. 76TH ST.	COUNTY: MILWAUKEE	CONSTRUCTION STAGING - STAGE 2	SHEET 448	E

2

ROAD WORK AHEAD
W20-1

250'

GLENBROOK RD

END ROAD WORK
G20-2A
48" X 24"

R3-2
24" X 24"

W06-3

PAVEMENT MARKING LEGEND

(15) TEMPORARY PAVEMENT MARKING 4-INCH (DOUBLE YELLOW)

NOTE:

FOR SIDEWALK CLOSURE USE STANDARD DETAIL DRAWING "TRAFFIC CONTROL, SIDEWALK CLOSURE"

ALL TEMPORARY SOUTH BOUND PAVEMENT MARKINGS TO REMAIN IN STAGE 2 UNLESS OTHERWISE SPECIFIED

PLACED IN STAGE 1

(15)

12'

12'

7.5' (TYP)

25' (TYP)

STH 181 / 76TH ST

25' (TYP)

50' (TYP)

12'

12'

MATCH LINE STA. 272+00

MATCH LINE STA. 278+00

273+00

274+00

275+00

276+00

277+00

R3-2
24" X 24"

NO PARKING BUS STOP

R7-1D
18" X 24"

23-4

MOVE SIGN TO HERE

SPEED LIMIT 45

R2-1
24" X 30"

23-8

EXISTING SIGN TO BE MOVED

SPEED LIMIT 45

R2-1
24" X 30"

23-8

W06-3

LEGEND

- WORK ZONE
- TEMPORARY PAVEMENT
- TEMPORARY CROSSWALK ACCESS
- TEMPORARY BUS STOP PAD
- TEMPORARY PAVEMENT TO BE USED IN FUTURE STAGES
- SIGNAL CONTROLLED INTERSECTION
- TRAFFIC FLOW ARROW
- DRUM WITH/WITHOUT LIGHT, TYPE C
- FLEXIBLE TUBULAR MARKERS
- SIGN MOUNTED ON POST
- SIGN MOUNTED ON TEMPORARY SUPPORT
- TYPE III BARRICADE WITH/WITHOUT SIGN
- REMOVING PAVEMENT MARKINGS

PROJECT NO: 2140-08-73	HWY: STH 181-N. 76TH ST.	COUNTY: MILWAUKEE	CONSTRUCTION STAGING - STAGE 2	SHEET 449	E

NOTE:

FOR SIDEWALK CLOSURE USE STANDARD DETAIL DRAWING "TRAFFIC CONTROL, SIDEWALK CLOSURE"

ALL TEMPORARY SOUTH BOUND PAVEMENT MARKINGS TO REMAIN IN STAGE 2 UNLESS OTHERWISE SPECIFIED

MOVE SIGN TO HERE

24-7

CITY OF
MILWAUKEE
NO PARKING
2 AM-6 AM
ON ANY STREET WITHOUT
POLICE PERMIT
NIGHT PARKING AN SNOW
EMERGENCY REGULATIONS
ARE IN EFFECT IN THIS CITY

MOVE SIGN TO HERE

24-9

RIGHT LANE MUST TURN RIGHT
R3-7R
30" X 30"

EXISTING SIGN TO BE MOVED

24-7

CITY OF
MILWAUKEE
NO PARKING
2 AM-6 AM
ON ANY STREET WITHOUT
POLICE PERMIT
NIGHT PARKING AN SNOW
EMERGENCY REGULATIONS
ARE IN EFFECT IN THIS CITY

MOVE SIGN TO HERE

24-1

RIGHT LANE MUST TURN RIGHT
R3-7R
30" X 30"

W06-3

PLACED IN STAGE 1

300'

12'

12'

50' (TYP)

25' (TYP)

50' (TYP)

6

4

STH 181 76TH ST

MATCH LINE STA. 278+00

278+00

279+00

280+00

281+00

282+00

283+00

284

MATCH LINE STA. 284+00

EXISTING SIGN TO BE MOVED

24-1

24-2

RIGHT LANE MUST TURN RIGHT
R3-7R
30" X 30"

NO PARKING
R7-1D
18" X 24"

W01-4R

35
M.P.H.
W013-1
24" X 24"

MOVE SIGN TO HERE

24-5

W3-3
36" X 36"

EXISTING SIGN TO BE MOVED

24-5

W3-3
36" X 36"

EXISTING SIGN TO BE MOVED

COUNTY LINE RD
M1-94

24-6

MOVE SIGN TO HERE

24-6

COUNTY LINE RD
M1-94

EXISTING SIGN TO BE MOVED

24-9

RIGHT LANE MUST TURN RIGHT
R3-7R
30" X 30"

24-10

NO PARKING
R7-1D
18" X 24"

24-3

W3-3
36" X 36"

24-4

NO PARKING
R7-1D
18" X 24"

PAVEMENT MARKING LEGEND

4 TEMPORARY PAVEMENT MARKING REMOVABLE TAPE 4-INCH (WHITE)

6 TEMPORARY PAVEMENT MARKING REMOVABLE TAPE 4-INCH (YELLOW)

LEGEND

- WORK ZONE
- TEMPORARY PAVEMENT
- TEMPORARY CROSSWALK ACCESS
- TEMPORARY BUS STOP PAD
- TEMPORARY PAVEMENT TO BE USED IN FUTURE STAGES
- SIGNAL CONTROLLED INTERSECTION
- TRAFFIC FLOW ARROW
- DRUM WITH/WITHOUT LIGHT, TYPE C
- FLEXIBLE TUBULAR MARKERS
- SIGN MOUNTED ON POST
- SIGN MOUNTED ON TEMPORARY SUPPORT
- TYPE III BARRICADE WITH/WITHOUT SIGN
- REMOVING PAVEMENT MARKINGS

PROJECT NO: 2140-08-73	HWY: STH 181-N. 76TH ST.	COUNTY: MILWAUKEE	CONSTRUCTION STAGING - STAGE 2	SHEET 450	E

MOVE SIGN TO HERE

25-1 SPEED LIMIT 45 R2-1 24" X 30"

EXISTING SIGN TO BE MOVED

25-1 SPEED LIMIT 45 R2-1 24" X 30"

W04-2L

LANE CLOSED R11-2(MOD) 48" X 30"

50' (TYP)

MATCH LINE STA. 284+00

285+00

286+00

287+00

6

4

25' (TYP)

STH 181 / 76TH ST

NE RD.

W. COUNTY LINE RD

N

NOTE:

FOR SIDEWALK CLOSURE USE STANDARD DETAIL DRAWING "TRAFFIC CONTROL, SIDEWALK CLOSURE"

ALL TEMPORARY SOUTH BOUND PAVEMENT MARKINGS TO REMAIN IN STAGE 2 UNLESS OTHERWISE SPECIFIED

FOR LANE CLOSURE USE STANDARD DETAIL DRAWING "TRAFFIC CONTROL SINGLE LANE CLOSURE, NON-FREEWAY/EXPRESSWAY"

PAVEMENT MARKING LEGEND

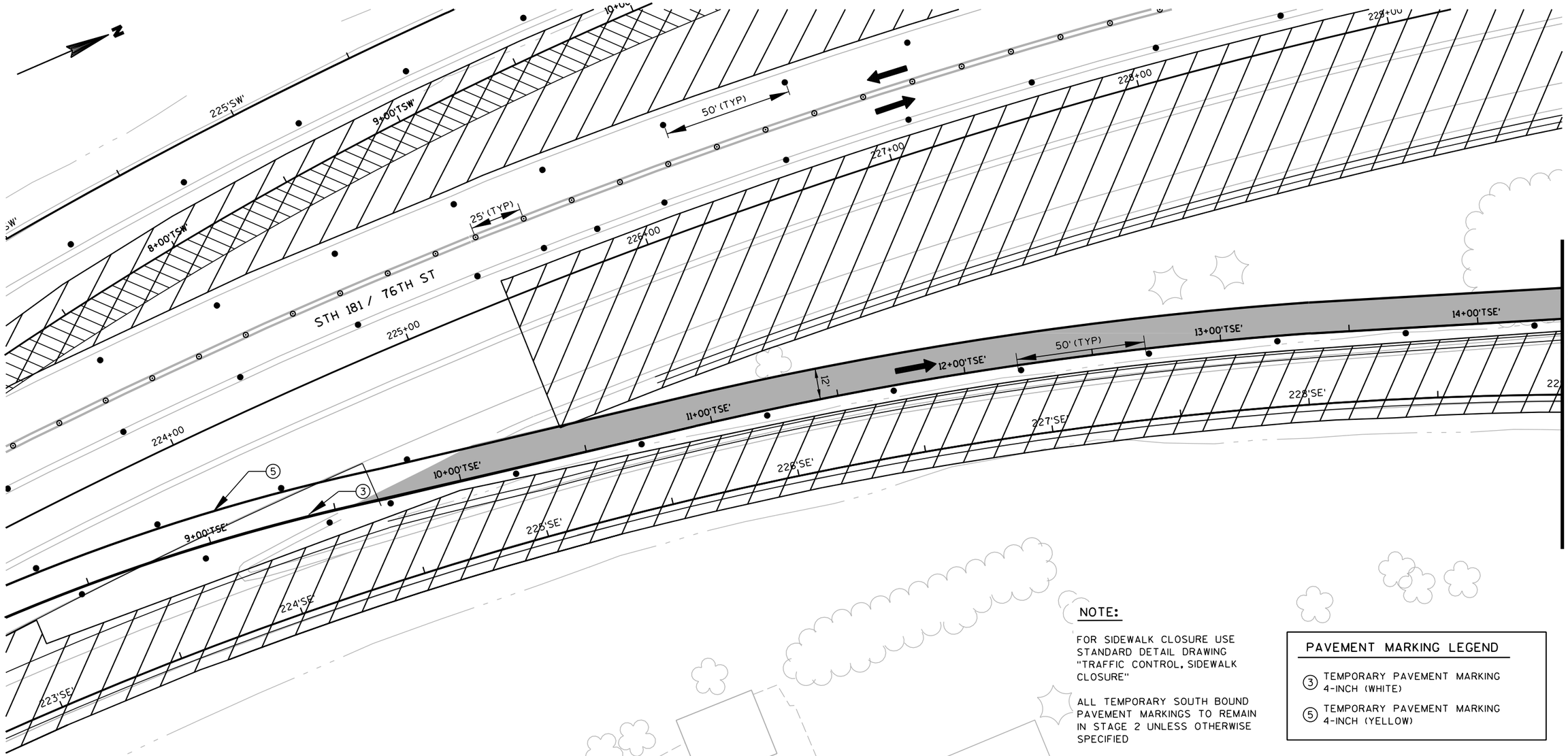
(4) TEMPORARY PAVEMENT MARKING REMOVABLE TAPE 4-INCH (WHITE)

(6) TEMPORARY PAVEMENT MARKING REMOVABLE TAPE 4-INCH (YELLOW)

LEGEND

- WORK ZONE
- TEMPORARY PAVEMENT
- TEMPORARY CROSSWALK ACCESS
- TEMPORARY BUS STOP PAD
- TEMPORARY PAVEMENT TO BE USED IN FUTURE STAGES
- SIGNAL CONTROLLED INTERSECTION
- TRAFFIC FLOW ARROW
- DRUM WITH/WITHOUT LIGHT, TYPE C
- FLEXIBLE TUBULAR MARKERS
- SIGN MOUNTED ON POST
- SIGN MOUNTED ON TEMPORARY SUPPORT
- TYPE III BARRICADE WITH/WITHOUT SIGN
- REMOVING PAVEMENT MARKINGS

2



NOTE:

FOR SIDEWALK CLOSURE USE STANDARD DETAIL DRAWING "TRAFFIC CONTROL, SIDEWALK CLOSURE"

ALL TEMPORARY SOUTH BOUND PAVEMENT MARKINGS TO REMAIN IN STAGE 2 UNLESS OTHERWISE SPECIFIED

PAVEMENT MARKING LEGEND

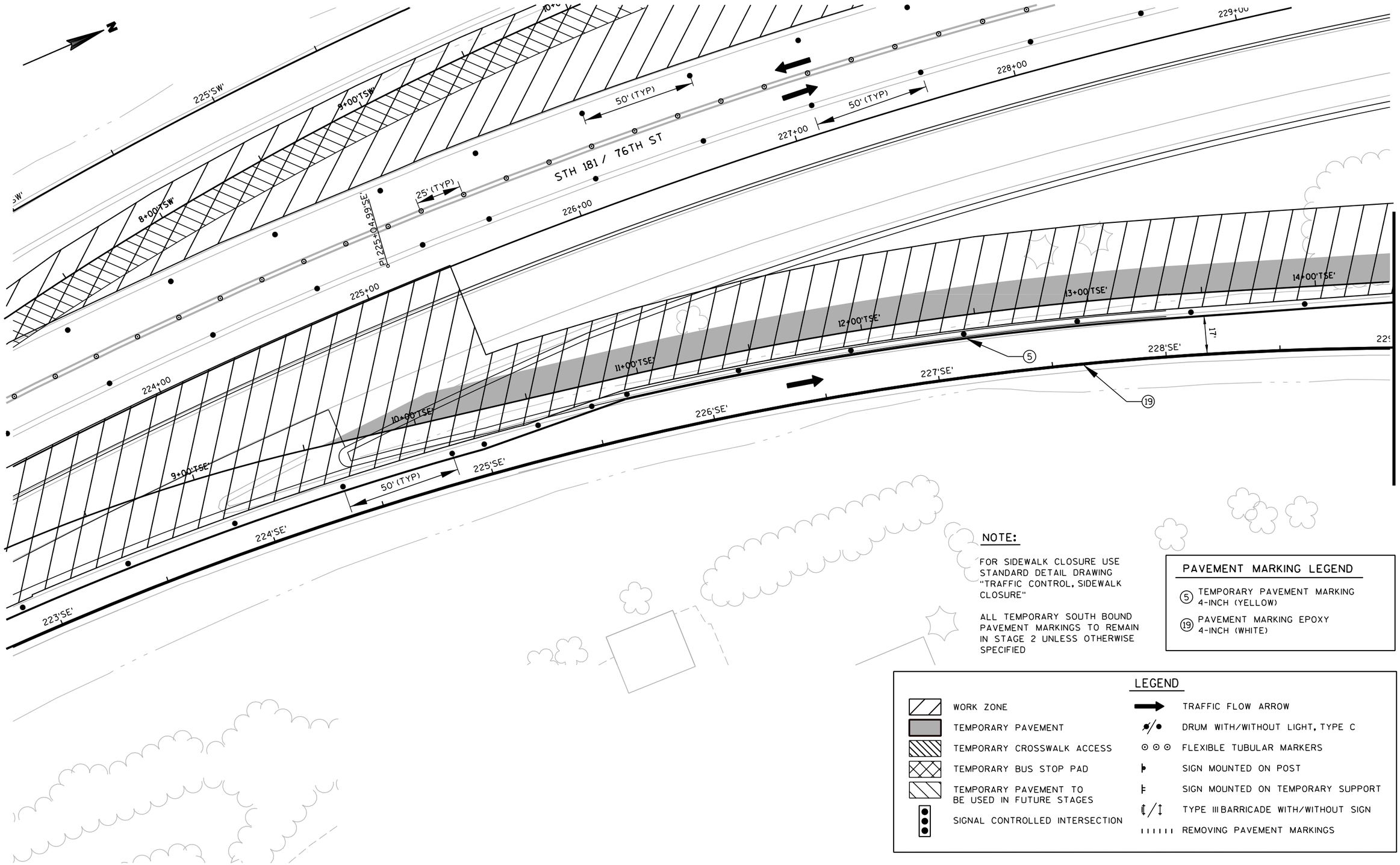
- (3) TEMPORARY PAVEMENT MARKING 4-INCH (WHITE)
- (5) TEMPORARY PAVEMENT MARKING 4-INCH (YELLOW)

LEGEND

- WORK ZONE
- TEMPORARY PAVEMENT
- TEMPORARY CROSSWALK ACCESS
- TEMPORARY BUS STOP PAD
- TEMPORARY PAVEMENT TO BE USED IN FUTURE STAGES
- SIGNAL CONTROLLED INTERSECTION
- TRAFFIC FLOW ARROW
- DRUM WITH/WITHOUT LIGHT, TYPE C
- FLEXIBLE TUBULAR MARKERS
- SIGN MOUNTED ON POST
- SIGN MOUNTED ON TEMPORARY SUPPORT
- TYPE III BARRICADE WITH/WITHOUT SIGN
- REMOVING PAVEMENT MARKINGS

PROJECT NO: 2140-08-73	HWY: STH 181-N. 76TH ST.	COUNTY: MILWAUKEE	CONSTRUCTION STAGING - STAGE 2 PHASE I	SHEET 452	E

2



NOTE:

FOR SIDEWALK CLOSURE USE STANDARD DETAIL DRAWING "TRAFFIC CONTROL, SIDEWALK CLOSURE"

ALL TEMPORARY SOUTH BOUND PAVEMENT MARKINGS TO REMAIN IN STAGE 2 UNLESS OTHERWISE SPECIFIED

PAVEMENT MARKING LEGEND

- (5) TEMPORARY PAVEMENT MARKING 4-INCH (YELLOW)
- (19) PAVEMENT MARKING EPOXY 4-INCH (WHITE)

LEGEND

- WORK ZONE
- TEMPORARY PAVEMENT
- TEMPORARY CROSSWALK ACCESS
- TEMPORARY BUS STOP PAD
- TEMPORARY PAVEMENT TO BE USED IN FUTURE STAGES
- SIGNAL CONTROLLED INTERSECTION
- TRAFFIC FLOW ARROW
- DRUM WITH/WITHOUT LIGHT, TYPE C
- FLEXIBLE TUBULAR MARKERS
- SIGN MOUNTED ON POST
- SIGN MOUNTED ON TEMPORARY SUPPORT
- TYPE III BARRICADE WITH/WITHOUT SIGN
- REMOVING PAVEMENT MARKINGS

PROJECT NO: 2140-08-73	HWY: STH 181-N. 76TH ST.	COUNTY: MILWAUKEE	CONSTRUCTION STAGING - STAGE 2 PHASE II	SHEET 453	E

2

2

STH 181 / 76TH ST

230+00

MATCH LINE STA. 229+00 'SE'

15+00'TSE'

50' (TYP)

16+00'TSE'

17+00'TSE'

18+00'TSE'

230+00SE'

231+00SE'

232+00SE'

12

SE'

230'SE'

231'SE'

232'SE'

233'SE'

EXISTING SIGN TO BE MOVED

WEST EAST 100 100

27-1

J2-2
48" X 57"

MOVE SIGN TO HERE

WEST EAST 100 100

27-1

J2-2
48" X 57"

NOTE:

FOR SIDEWALK CLOSURE USE STANDARD DETAIL DRAWING "TRAFFIC CONTROL, SIDEWALK CLOSURE"

ALL TEMPORARY SOUTH BOUND PAVEMENT MARKINGS TO REMAIN IN STAGE 2 UNLESS OTHERWISE SPECIFIED

LEGEND

- WORK ZONE
- TEMPORARY PAVEMENT
- TEMPORARY CROSSWALK ACCESS
- TEMPORARY BUS STOP PAD
- TEMPORARY PAVEMENT TO BE USED IN FUTURE STAGES
- SIGNAL CONTROLLED INTERSECTION
- TRAFFIC FLOW ARROW
- DRUM WITH/WITHOUT LIGHT, TYPE C
- FLEXIBLE TUBULAR MARKERS
- SIGN MOUNTED ON POST
- SIGN MOUNTED ON TEMPORARY SUPPORT
- TYPE III BARRICADE WITH/WITHOUT SIGN
- REMOVING PAVEMENT MARKINGS

PAVEMENT MARKING LEGEND

- (2) TEMPORARY PAVEMENT MARKING REMOVABLE TAPE 4-INCH (DASHED WHITE)
- (3) TEMPORARY PAVEMENT MARKING 4-INCH (WHITE)
- (4) TEMPORARY PAVEMENT MARKING REMOVABLE TAPE 4-INCH (WHITE)
- (5) TEMPORARY PAVEMENT MARKING 4-INCH (YELLOW)
- (14) TEMPORARY PAVEMENT MARKING STOP LINE REMOVABLE TAPE 18-INCH

N

BROWN DEER RD & STH 100

123+00BD'

124+00BD'

125+00BD'

126+00BD'

LANE CLOSED
R11-2(MOD)
48" X 30"

1+00'TNE'

2+00'TNE'

12

234+00NE'

235+00'NE'

50' (TYP)

234'NE'

235'NE'

LANE CLOSED
R11-2(MOD)
48" X 30"

PROJECT NO: 2140-08-73	HWY: STH 181-N. 76TH ST.	COUNTY: MILWAUKEE	CONSTRUCTION STAGING - STAGE 2 PHASE I	SHEET 454	E

2

2

STH 181 / 76TH ST

230+00

123+00 BD'

* = SEE PERMANENT PAVEMENT MARKING PLAN

25' (TYP)

18+00'TSE'

232+00SE'

17+00'TSE'

16+00'TSE'

231+00SE'

15+00'TSE'

230+00SE'

50' (TYP)

11'

6

*

*

SE'

230'SE'

231'SE'

232'SE'

233'SE'

MATCH LINE STA. 229+00 'SE'

BROWN DEER RD & STH 100

125+00 BD'

126+00 BD'

1+00'TNE'

2+00'TNE'

6 235+00'NE'

4

11'

234+00'NE'

PLACED IN STAGE 1

124+00 BD'

50' (TYP)

LANE CLOSED
R11-2(MOD)
48" X 30"

235'NE'

234'NE'

PAVEMENT MARKING LEGEND

4 TEMPORARY PAVEMENT MARKING REMOVABLE TAPE 4-INCH (WHITE)

6 TEMPORARY PAVEMENT MARKING REMOVABLE TAPE 4-INCH (YELLOW)

LEGEND

- WORK ZONE
- TEMPORARY PAVEMENT
- TEMPORARY CROSSWALK ACCESS
- TEMPORARY BUS STOP PAD
- TEMPORARY PAVEMENT TO BE USED IN FUTURE STAGES
- SIGNAL CONTROLLED INTERSECTION
- TRAFFIC FLOW ARROW
- DRUM WITH/WITHOUT LIGHT, TYPE C
- FLEXIBLE TUBULAR MARKERS
- SIGN MOUNTED ON POST
- SIGN MOUNTED ON TEMPORARY SUPPORT
- TYPE III BARRICADE WITH/WITHOUT SIGN
- REMOVING PAVEMENT MARKINGS

NOTE:

FOR SIDEWALK CLOSURE USE STANDARD DETAIL DRAWING "TRAFFIC CONTROL, SIDEWALK CLOSURE"

ALL TEMPORARY SOUTH BOUND PAVEMENT MARKINGS TO REMAIN IN STAGE 2 UNLESS OTHERWISE SPECIFIED

PROJECT NO: 2140-08-73	HWY: STH 181-N. 76TH ST.	COUNTY: MILWAUKEE	CONSTRUCTION STAGING - STAGE 2 PHASE II	SHEET 455 E

2

N

17+00'TSE'

16+00'SE'

18+00'TSE'

5

3

232'SE'

233'SE'

LANE CLOSED
R11-2(MOD)
48" X 30"

1+00'TNE'

5

14

3

2+00'TNE'

12'

234+00'NE'

3+00'TNE'

4+00'TNE'

5+00'TNE'

235+00'NE'

236+00'NE'

237+00'NE'

124+00'BD'

125+00'BD'

126+00'BD'

2

50' (TYP)

BROWN DEER RD & STH 100

236'NE'

237'NE'

235'NE'

234'NE'

4

LANE CLOSED
R11-2(MOD)
48" X 30"

MATCH LINE STA. 238+00 'NE'

28-1

R1-2
36" X 31"

NOTE:

FOR SIDEWALK CLOSURE USE STANDARD DETAIL DRAWING "TRAFFIC CONTROL, SIDEWALK CLOSURE"

ALL TEMPORARY SOUTH BOUND PAVEMENT MARKINGS TO REMAIN IN STAGE 2 UNLESS OTHERWISE SPECIFIED

LEGEND

- WORK ZONE
- TEMPORARY PAVEMENT
- TEMPORARY CROSSWALK ACCESS
- TEMPORARY BUS STOP PAD
- TEMPORARY PAVEMENT TO BE USED IN FUTURE STAGES
- SIGNAL CONTROLLED INTERSECTION
- TRAFFIC FLOW ARROW
- DRUM WITH/WITHOUT LIGHT, TYPE C
- FLEXIBLE TUBULAR MARKERS
- SIGN MOUNTED ON POST
- SIGN MOUNTED ON TEMPORARY SUPPORT
- TYPE III BARRICADE WITH/WITHOUT SIGN
- REMOVING PAVEMENT MARKINGS

PAVEMENT MARKING LEGEND

(2) TEMPORARY PAVEMENT MARKING REMOVABLE TAPE 4-INCH (DASHED WHITE)

(3) TEMPORARY PAVEMENT MARKING 4-INCH (WHITE)

(4) TEMPORARY PAVEMENT MARKING REMOVABLE TAPE 4-INCH (WHITE)

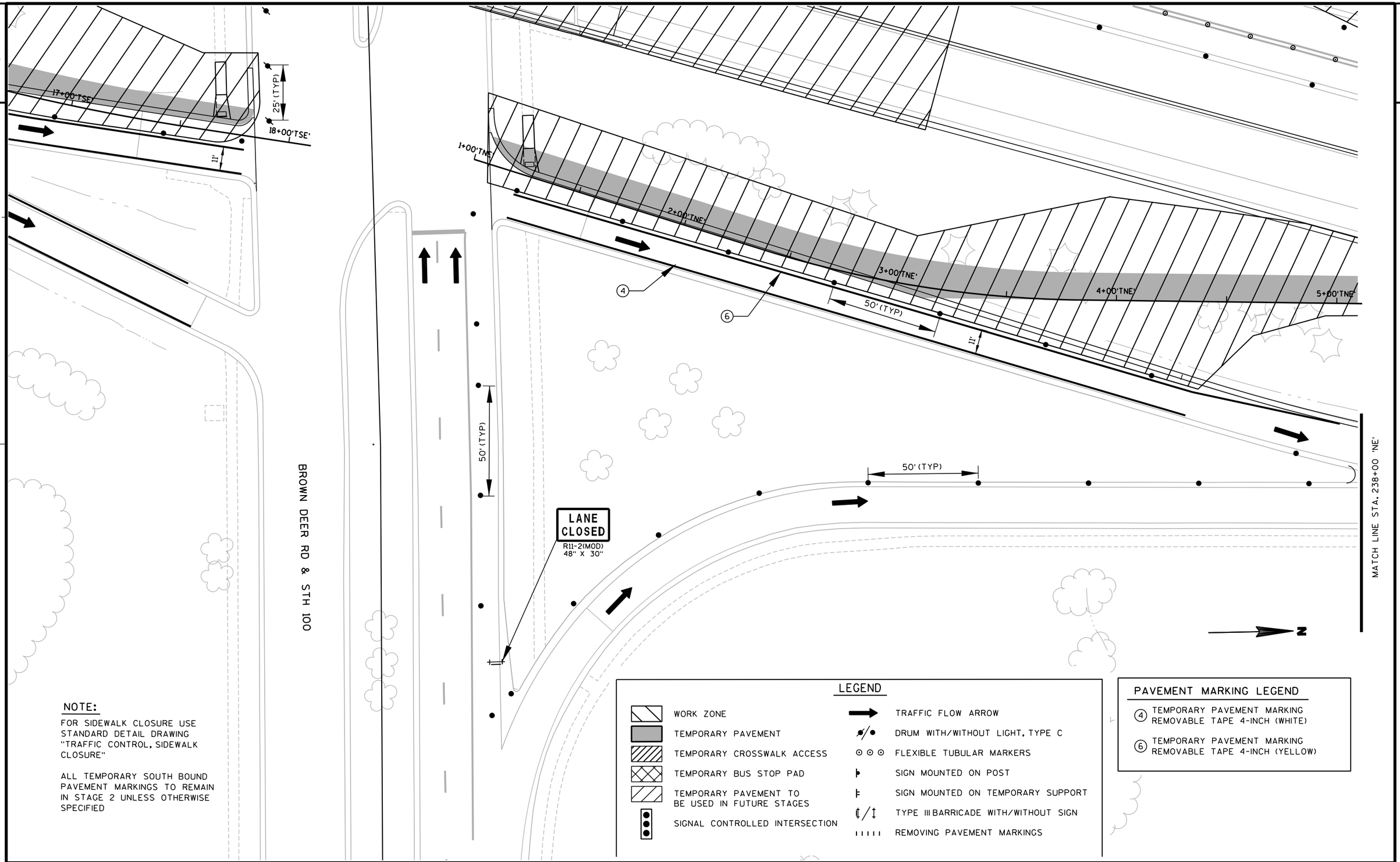
(5) TEMPORARY PAVEMENT MARKING 4-INCH (YELLOW)

(14) TEMPORARY PAVEMENT MARKING STOP LINE REMOVABLE TAPE 18-INCH

PROJECT NO: 2140-08-73	HWY: STH 181-N. 76TH ST.	COUNTY: MILWAUKEE	CONSTRUCTION STAGING - STAGE 2 PHASE 1	SHEET 456	E

FILE NAME : s:\@sai\051--100\089\099\micros\design\0873\026129_s2.dgn PLOT DATE : 7/30/2007 PLOT BY : $$...plotuser...$$ PLOT NAME : PLOT SCALE : $$.....plotscale.....$$ WISDOT/CADDS SHEET 42

2



NOTE:

FOR SIDEWALK CLOSURE USE STANDARD DETAIL DRAWING "TRAFFIC CONTROL, SIDEWALK CLOSURE"

ALL TEMPORARY SOUTH BOUND PAVEMENT MARKINGS TO REMAIN IN STAGE 2 UNLESS OTHERWISE SPECIFIED

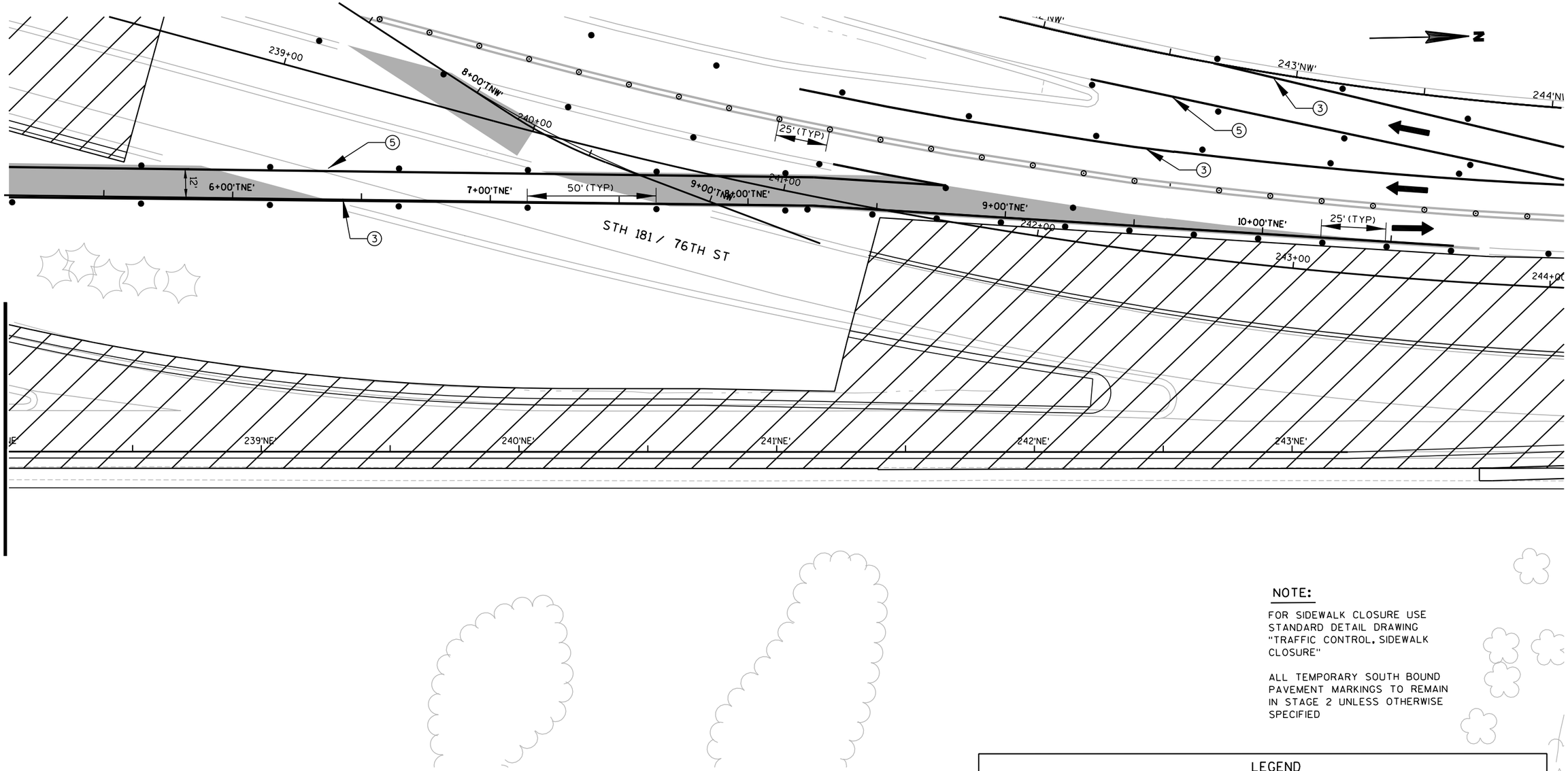
LEGEND

- WORK ZONE
- TEMPORARY PAVEMENT
- TEMPORARY CROSSWALK ACCESS
- TEMPORARY BUS STOP PAD
- TEMPORARY PAVEMENT TO BE USED IN FUTURE STAGES
- SIGNAL CONTROLLED INTERSECTION
- TRAFFIC FLOW ARROW
- DRUM WITH/WITHOUT LIGHT, TYPE C
- FLEXIBLE TUBULAR MARKERS
- SIGN MOUNTED ON POST
- SIGN MOUNTED ON TEMPORARY SUPPORT
- TYPE III BARRICADE WITH/WITHOUT SIGN
- REMOVING PAVEMENT MARKINGS

PAVEMENT MARKING LEGEND

- (4) TEMPORARY PAVEMENT MARKING REMOVABLE TAPE 4-INCH (WHITE)
- (6) TEMPORARY PAVEMENT MARKING REMOVABLE TAPE 4-INCH (YELLOW)

PROJECT NO: 2140-08-73	HWY: STH 181-N. 76TH ST.	COUNTY: MILWAUKEE	CONSTRUCTION STAGING - STAGE 2 PHASE II	SHEET 457	E



PAVEMENT MARKING LEGEND

③ TEMPORARY PAVEMENT MARKING 4-INCH (WHITE)

⑤ TEMPORARY PAVEMENT MARKING 4-INCH (YELLOW)

NOTE:

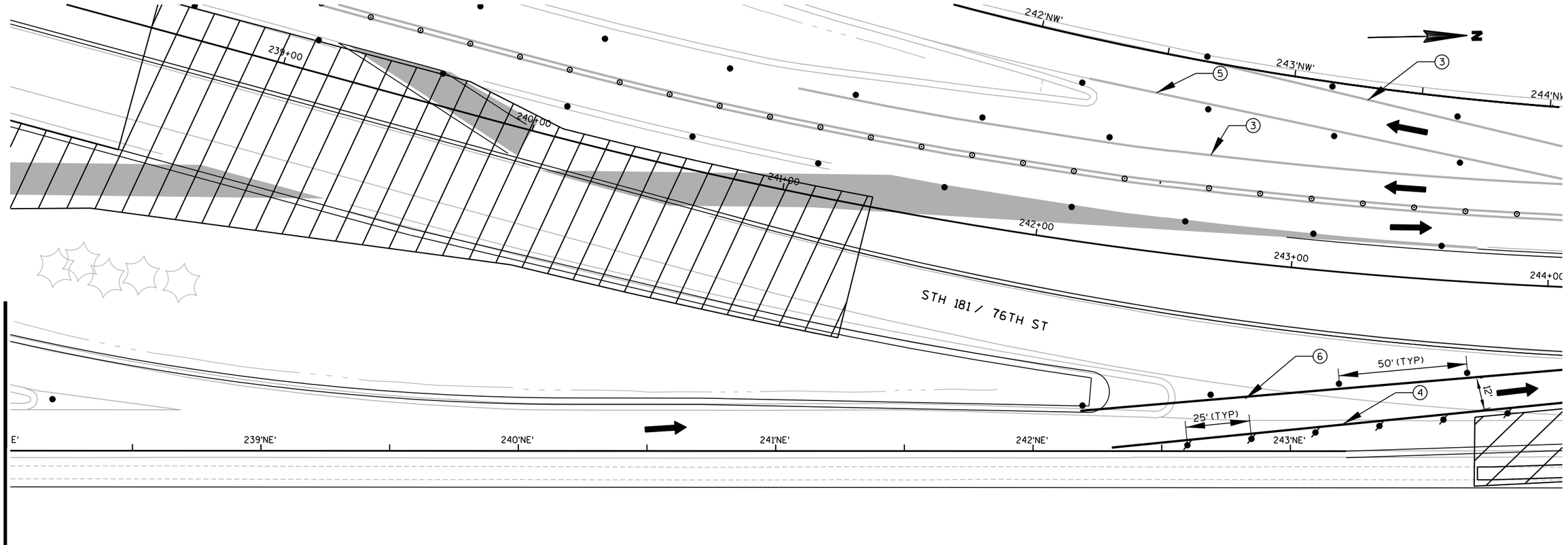
FOR SIDEWALK CLOSURE USE STANDARD DETAIL DRAWING "TRAFFIC CONTROL, SIDEWALK CLOSURE"

ALL TEMPORARY SOUTH BOUND PAVEMENT MARKINGS TO REMAIN IN STAGE 2 UNLESS OTHERWISE SPECIFIED

LEGEND

- WORK ZONE
- TEMPORARY PAVEMENT
- TEMPORARY CROSSWALK ACCESS
- TEMPORARY BUS STOP PAD
- TEMPORARY PAVEMENT TO BE USED IN FUTURE STAGES
- SIGNAL CONTROLLED INTERSECTION
- TRAFFIC FLOW ARROW
- DRUM WITH/WITHOUT LIGHT, TYPE C
- FLEXIBLE TUBULAR MARKERS
- SIGN MOUNTED ON POST
- SIGN MOUNTED ON TEMPORARY SUPPORT
- TYPE III BARRICADE WITH/WITHOUT SIGN
- REMOVING PAVEMENT MARKINGS

PROJECT NO: 2140-08-73	HWY: STH 181-N. 76TH ST.	COUNTY: MILWAUKEE	CONSTRUCTION STAGING - STAGE 2 PHASE 1	SHEET 458	E



MATCH LINE STA. 238+00 NE

PAVEMENT MARKING LEGEND

- (3) TEMPORARY PAVEMENT MARKING 4-INCH (WHITE)
- (4) TEMPORARY PAVEMENT MARKING REMOVABLE TAPE 4-INCH (WHITE)
- (5) TEMPORARY PAVEMENT MARKING 4-INCH (YELLOW)
- (6) TEMPORARY PAVEMENT MARKING REMOVABLE TAPE 4-INCH (YELLOW)

NOTE:

FOR SIDEWALK CLOSURE USE STANDARD DETAIL DRAWING "TRAFFIC CONTROL, SIDEWALK CLOSURE"

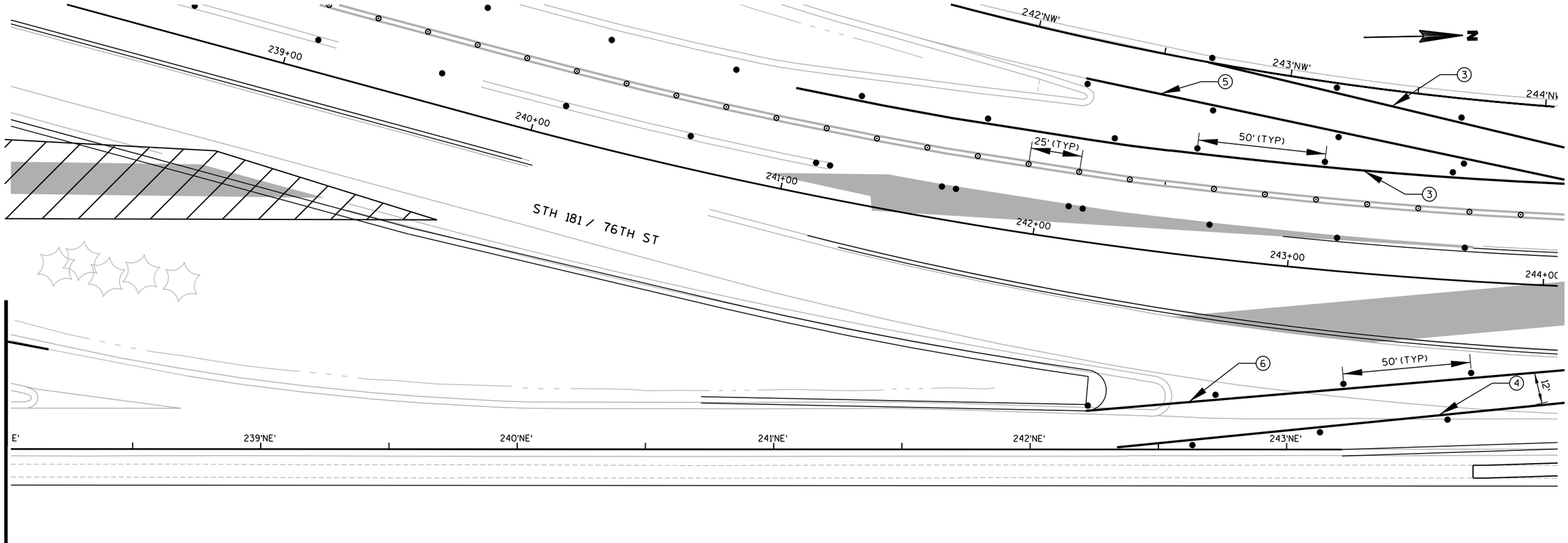
ALL TEMPORARY SOUTH BOUND PAVEMENT MARKINGS TO REMAIN IN STAGE 2 UNLESS OTHERWISE SPECIFIED

LEGEND

- WORK ZONE
- TEMPORARY PAVEMENT
- TEMPORARY CROSSWALK ACCESS
- TEMPORARY BUS STOP PAD
- TEMPORARY PAVEMENT TO BE USED IN FUTURE STAGES
- SIGNAL CONTROLLED INTERSECTION
- TRAFFIC FLOW ARROW
- DRUM WITH/WITHOUT LIGHT, TYPE C
- FLEXIBLE TUBULAR MARKERS
- SIGN MOUNTED ON POST
- SIGN MOUNTED ON TEMPORARY SUPPORT
- TYPE III BARRICADE WITH/WITHOUT SIGN
- REMOVING PAVEMENT MARKINGS

PROJECT NO: 2140-08-73	HWY: STH 181-N. 76TH ST.	COUNTY: MILWAUKEE	CONSTRUCTION STAGING - STAGE 2 PHASE II	SHEET 459	E

2



NOTE:

FOR SIDEWALK CLOSURE USE STANDARD DETAIL DRAWING "TRAFFIC CONTROL, SIDEWALK CLOSURE"

ALL TEMPORARY SOUTH BOUND PAVEMENT MARKINGS TO REMAIN IN STAGE 2 UNLESS OTHERWISE SPECIFIED

PAVEMENT MARKING LEGEND

- (3) TEMPORARY PAVEMENT MARKING 4-INCH (WHITE)
- (4) TEMPORARY PAVEMENT MARKING REMOVABLE TAPE 4-INCH (WHITE)
- (5) TEMPORARY PAVEMENT MARKING 4-INCH (YELLOW)
- (6) TEMPORARY PAVEMENT MARKING REMOVABLE TAPE 4-INCH (YELLOW)

LEGEND

- WORK ZONE
- TEMPORARY PAVEMENT
- TEMPORARY CROSSWALK ACCESS
- TEMPORARY BUS STOP PAD
- TEMPORARY PAVEMENT TO BE USED IN FUTURE STAGES
- SIGNAL CONTROLLED INTERSECTION
- TRAFFIC FLOW ARROW
- DRUM WITH/WITHOUT LIGHT, TYPE C
- FLEXIBLE TUBULAR MARKERS
- SIGN MOUNTED ON POST
- SIGN MOUNTED ON TEMPORARY SUPPORT
- TYPE III BARRICADE WITH/WITHOUT SIGN
- REMOVING PAVEMENT MARKINGS

PROJECT NO: 2140-08-73	HWY: STH 181-N. 76TH ST.	COUNTY: MILWAUKEE	CONSTRUCTION STAGING - STAGE 2 PHASE III	SHEET 460	E

2

N

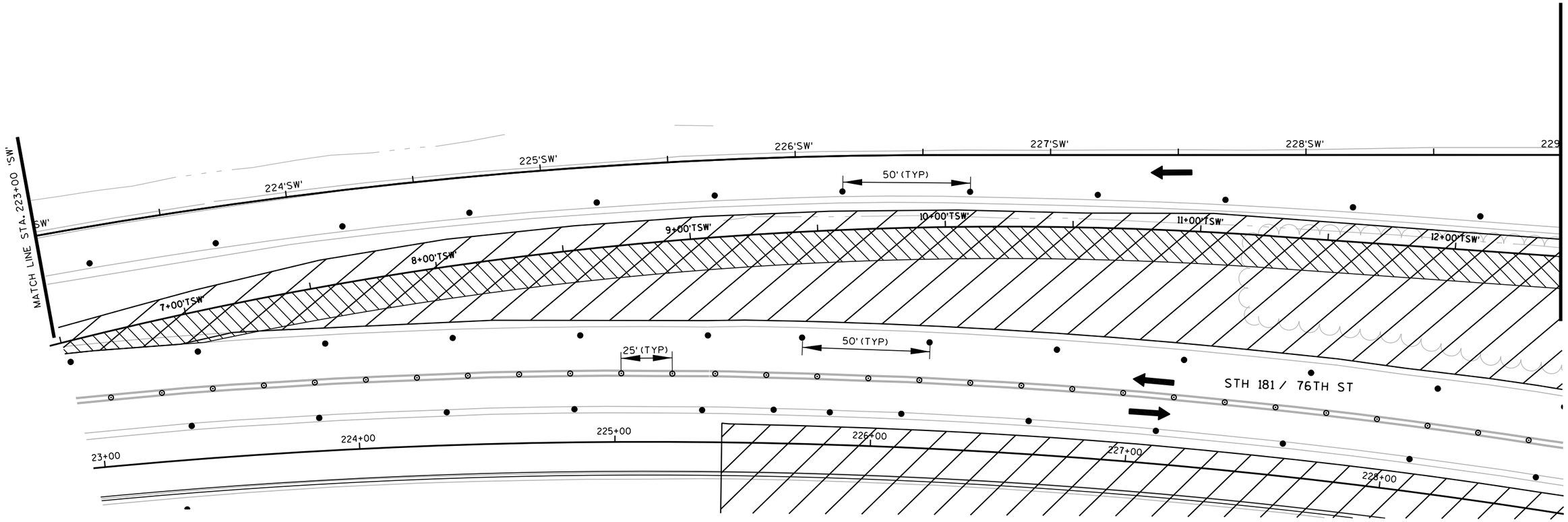
LEGEND

- WORK ZONE
- TEMPORARY PAVEMENT
- TEMPORARY CROSSWALK ACCESS
- TEMPORARY BUS STOP PAD
- TEMPORARY PAVEMENT TO BE USED IN FUTURE STAGES
- SIGNAL CONTROLLED INTERSECTION
- TRAFFIC FLOW ARROW
- DRUM WITH/WITHOUT LIGHT, TYPE C
- FLEXIBLE TUBULAR MARKERS
- SIGN MOUNTED ON POST
- SIGN MOUNTED ON TEMPORARY SUPPORT
- TYPE III BARRICADE WITH/WITHOUT SIGN
- REMOVING PAVEMENT MARKINGS

NOTE:

FOR SIDEWALK CLOSURE USE STANDARD DETAIL DRAWING "TRAFFIC CONTROL, SIDEWALK CLOSURE"

ALL TEMPORARY SOUTH BOUND PAVEMENT MARKINGS TO REMAIN IN STAGE 2 UNLESS OTHERWISE SPECIFIED



PROJECT NO: 2140-08-73	HWY: STH 181-N. 76TH ST.	COUNTY: MILWAUKEE	CONSTRUCTION STAGING - STAGE 2	SHEET	E

FILE NAME : s:\@sdi\051--100\089\099\micros\design\0873\026131_s2.dgn PLOT DATE : 7/30/2007 PLOT BY : $$...plotuser...$$ PLOT NAME : PLOT SCALE : $$.....plotscale.....$$ WISDOT/CADDS SHEET 42

2

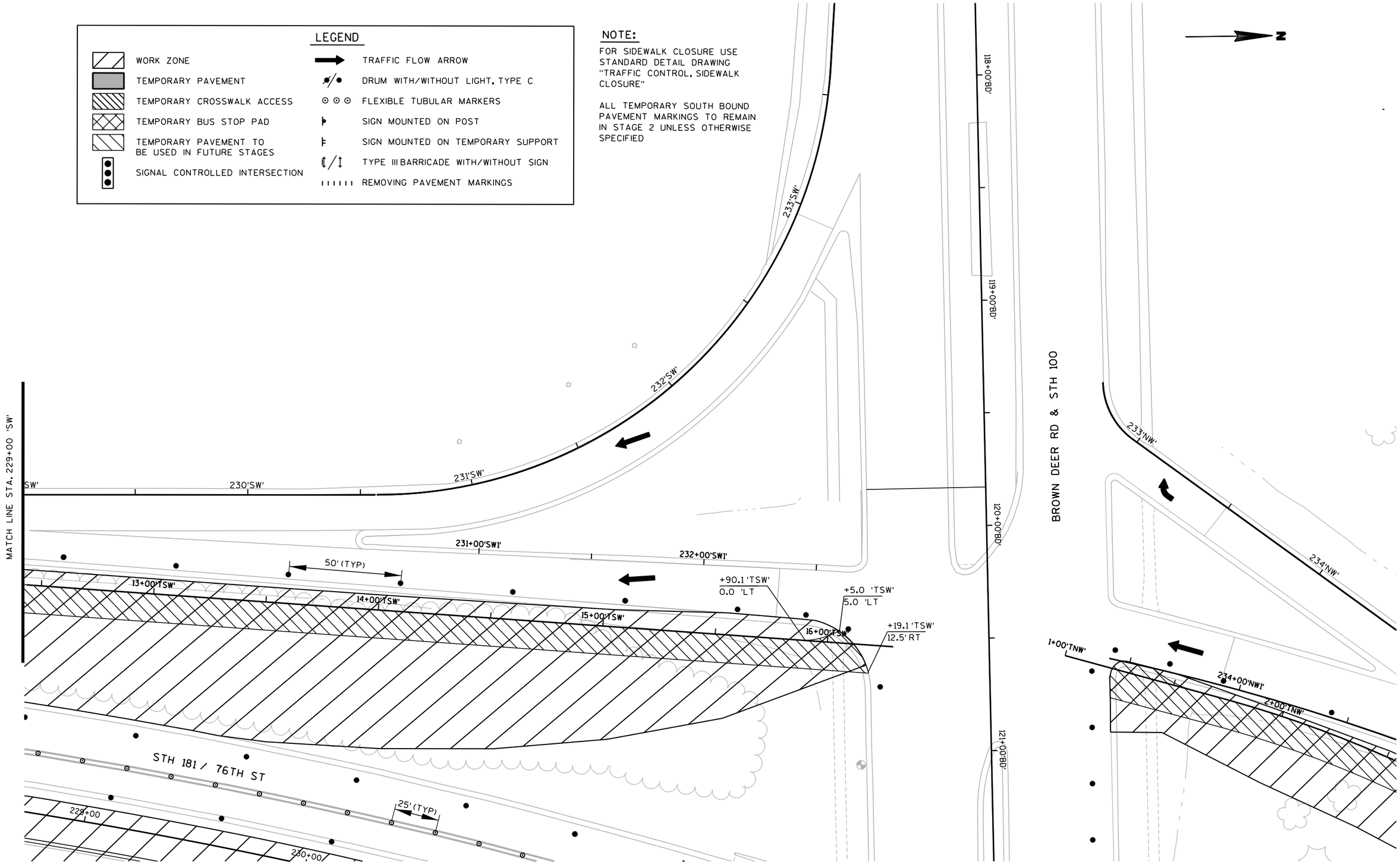
LEGEND

- WORK ZONE
- TEMPORARY PAVEMENT
- TEMPORARY CROSSWALK ACCESS
- TEMPORARY BUS STOP PAD
- TEMPORARY PAVEMENT TO BE USED IN FUTURE STAGES
- SIGNAL CONTROLLED INTERSECTION
- TRAFFIC FLOW ARROW
- DRUM WITH/WITHOUT LIGHT, TYPE C
- FLEXIBLE TUBULAR MARKERS
- SIGN MOUNTED ON POST
- SIGN MOUNTED ON TEMPORARY SUPPORT
- TYPE III BARRICADE WITH/WITHOUT SIGN
- REMOVING PAVEMENT MARKINGS

NOTE:

FOR SIDEWALK CLOSURE USE STANDARD DETAIL DRAWING "TRAFFIC CONTROL, SIDEWALK CLOSURE"

ALL TEMPORARY SOUTH BOUND PAVEMENT MARKINGS TO REMAIN IN STAGE 2 UNLESS OTHERWISE SPECIFIED



PROJECT NO: 2140-08-73	HWY: STH 181-N. 76TH ST.	COUNTY: MILWAUKEE	CONSTRUCTION STAGING - STAGE 2	SHEET 462	E

NOTE:

FOR SIDEWALK CLOSURE USE STANDARD DETAIL DRAWING "TRAFFIC CONTROL, SIDEWALK CLOSURE"

ALL TEMPORARY SOUTH BOUND PAVEMENT MARKINGS TO REMAIN IN STAGE 2 UNLESS OTHERWISE SPECIFIED

LEGEND

- WORK ZONE
- TEMPORARY PAVEMENT
- TEMPORARY CROSSWALK ACCESS
- TEMPORARY BUS STOP PAD
- TEMPORARY PAVEMENT TO BE USED IN FUTURE STAGES
- SIGNAL CONTROLLED INTERSECTION
- TRAFFIC FLOW ARROW
- DRUM WITH/WITHOUT LIGHT, TYPE C
- FLEXIBLE TUBULAR MARKERS
- SIGN MOUNTED ON POST
- SIGN MOUNTED ON TEMPORARY SUPPORT
- TYPE III BARRICADE WITH/WITHOUT SIGN
- REMOVING PAVEMENT MARKINGS

BROWN DEER RD & STH 100

MATCH LINE STA. 237+00 'NW'

STH 181 / 76TH ST

PROJECT NO: 2140-08-73	HWY: STH 181-N. 76TH ST.	COUNTY: MILWAUKEE	CONSTRUCTION STAGING - STAGE 2	SHEET 463 E

2

LEGEND

- WORK ZONE
- TEMPORARY PAVEMENT
- TEMPORARY CROSSWALK ACCESS
- TEMPORARY BUS STOP PAD
- TEMPORARY PAVEMENT TO BE USED IN FUTURE STAGES
- SIGNAL CONTROLLED INTERSECTION
- TRAFFIC FLOW ARROW
- DRUM WITH/WITHOUT LIGHT, TYPE C
- FLEXIBLE TUBULAR MARKERS
- SIGN MOUNTED ON POST
- SIGN MOUNTED ON TEMPORARY SUPPORT
- TYPE III BARRICADE WITH/WITHOUT SIGN
- REMOVING PAVEMENT MARKINGS

N

NOTE:

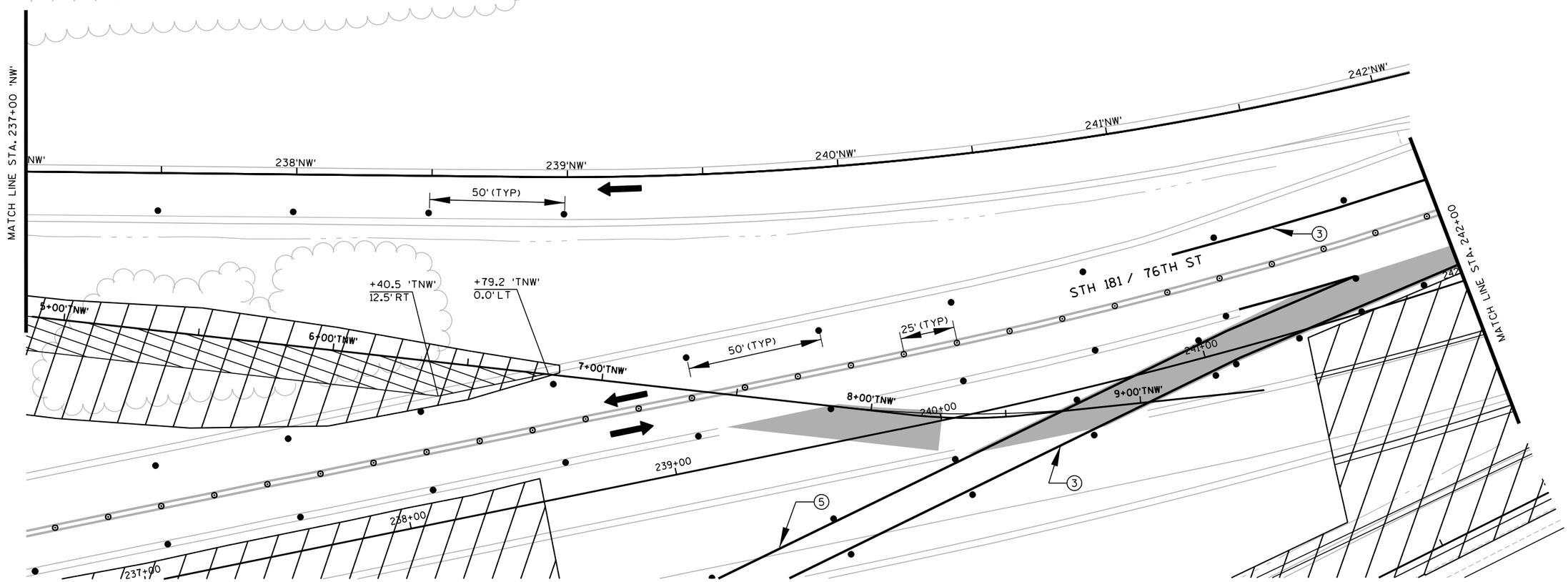
FOR SIDEWALK CLOSURE USE STANDARD DETAIL DRAWING "TRAFFIC CONTROL, SIDEWALK CLOSURE"

ALL TEMPORARY SOUTH BOUND PAVEMENT MARKINGS TO REMAIN IN STAGE 2 UNLESS OTHERWISE SPECIFIED

PAVEMENT MARKING LEGEND

(3) TEMPORARY PAVEMENT MARKING 4-INCH (WHITE)

(5) TEMPORARY PAVEMENT MARKING 4-INCH (YELLOW)



PROJECT NO: 2140-08-73	HWY: STH 181-N. 76TH ST.	COUNTY: MILWAUKEE	CONSTRUCTION STAGING - STAGE 2 PHASE 1	SHEET 464	E

2

2

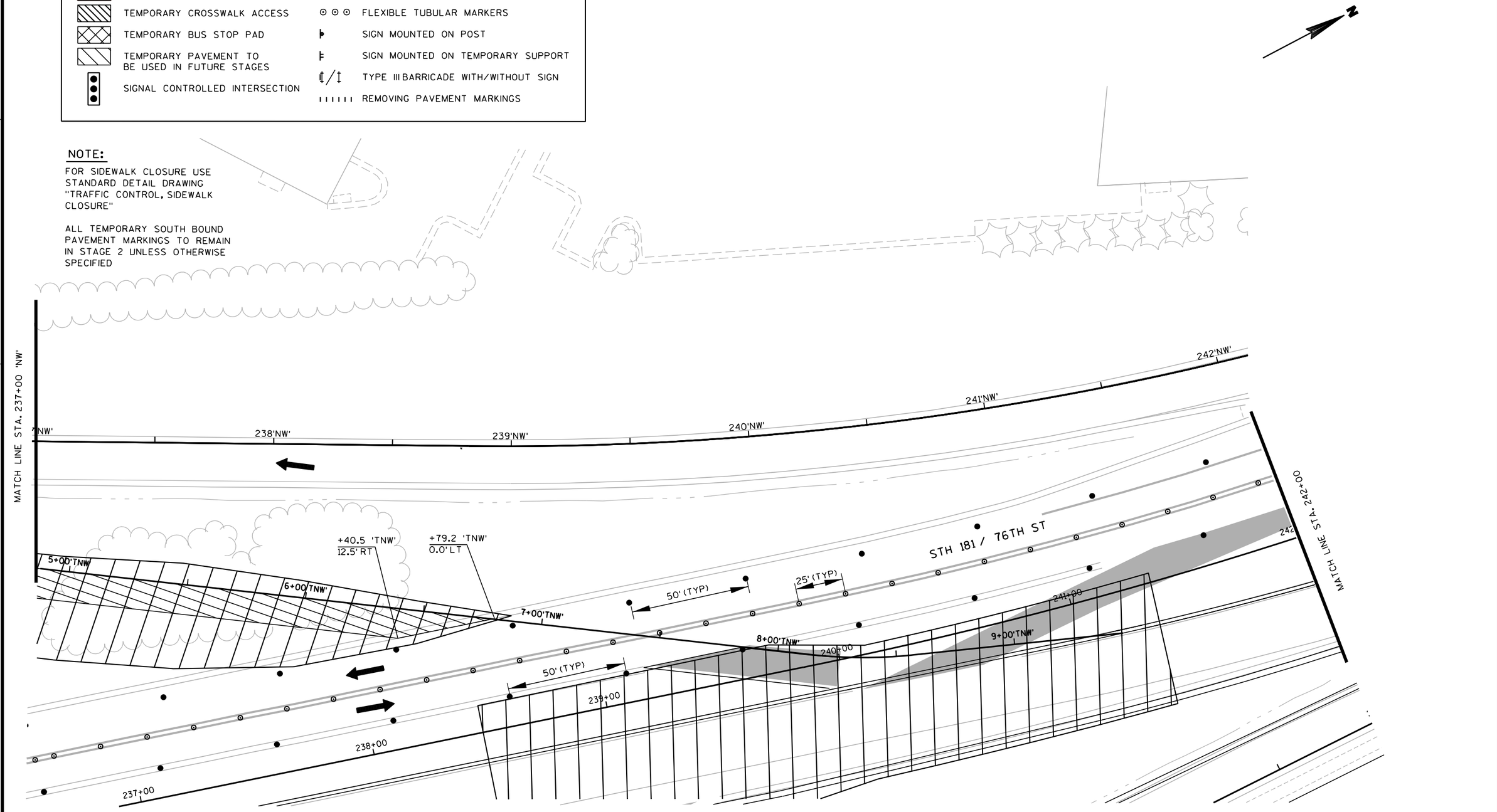
LEGEND

- WORK ZONE
- TEMPORARY PAVEMENT
- TEMPORARY CROSSWALK ACCESS
- TEMPORARY BUS STOP PAD
- TEMPORARY PAVEMENT TO BE USED IN FUTURE STAGES
- SIGNAL CONTROLLED INTERSECTION
- TRAFFIC FLOW ARROW
- DRUM WITH/WITHOUT LIGHT, TYPE C
- FLEXIBLE TUBULAR MARKERS
- SIGN MOUNTED ON POST
- SIGN MOUNTED ON TEMPORARY SUPPORT
- TYPE III BARRICADE WITH/WITHOUT SIGN
- REMOVING PAVEMENT MARKINGS

NOTE:

FOR SIDEWALK CLOSURE USE STANDARD DETAIL DRAWING "TRAFFIC CONTROL, SIDEWALK CLOSURE"

ALL TEMPORARY SOUTH BOUND PAVEMENT MARKINGS TO REMAIN IN STAGE 2 UNLESS OTHERWISE SPECIFIED



PROJECT NO: 2140-08-73	HWY: STH 181-N. 76TH ST.	COUNTY: MILWAUKEE	CONSTRUCTION STAGING - STAGE 2 PHASE II	SHEET 465 E

2

2

PAVEMENT MARKING LEGEND

(6) TEMPORARY PAVEMENT MARKING REMOVABLE TAPE 4-INCH (YELLOW)

(14) TEMPORARY PAVEMENT MARKING STOP LINE REMOVABLE TAPE 18-INCH

(16) TEMPORARY PAVEMENT MARKING REMOVABLE TAPE 4-INCH (DOUBLE YELLOW)

NOTE:

FOR SIDEWALK CLOSURE USE STANDARD DETAIL DRAWING "TRAFFIC CONTROL, SIDEWALK CLOSURE"

ALL TEMPORARY SOUTH BOUND PAVEMENT MARKINGS TO REMAIN IN STAGE 2 UNLESS OTHERWISE SPECIFIED

N

END ROAD WORK
G20-2A
48" X 24"

125'

R4-7
24" X 30"

LANE CLOSED
R11-2(MOD)
48" X 30"

ROAD WORK AHEAD
W20-1

25' (TYP)

5'

9+00'C'

10+00'C'

11+00'C'

CALUMET RD.

350'

155+00

154+00

153+00

ONLY

10'

160'

12+00'C'

13+00'C'

STH 181 / 76TH ST.

LEGEND

- WORK ZONE
- TEMPORARY PAVEMENT
- TEMPORARY CROSSWALK ACCESS
- TEMPORARY BUS STOP PAD
- TEMPORARY PAVEMENT TO BE USED IN FUTURE STAGES
- SIGNAL CONTROLLED INTERSECTION
- TRAFFIC FLOW ARROW
- DRUM WITH/WITHOUT LIGHT, TYPE C
- FLEXIBLE TUBULAR MARKERS
- SIGN MOUNTED ON POST
- SIGN MOUNTED ON TEMPORARY SUPPORT
- TYPE III BARRICADE WITH/WITHOUT SIGN
- REMOVING PAVEMENT MARKINGS

PROJECT NO: 2140-08-73	HWY: STH 181-N. 76TH ST.	COUNTY: MILWAUKEE	CONSTRUCTION STAGING - STAGE 2 PHASE I	SHEET 466	E

2

PAVEMENT MARKING LEGEND

(6) TEMPORARY PAVEMENT MARKING REMOVABLE TAPE 4-INCH (YELLOW)

(14) TEMPORARY PAVEMENT MARKING STOP LINE REMOVABLE TAPE 18-INCH

(16) TEMPORARY PAVEMENT MARKING REMOVABLE TAPE 4-INCH (DOUBLE YELLOW)

NOTE:

FOR SIDEWALK CLOSURE USE STANDARD DETAIL DRAWING "TRAFFIC CONTROL, SIDEWALK CLOSURE"

ALL TEMPORARY SOUTH BOUND PAVEMENT MARKINGS TO REMAIN IN STAGE 2 UNLESS OTHERWISE SPECIFIED

N

END ROAD WORK
G20-2A
48" X 24"

LANE CLOSED
R11-2(MOD)
48" X 30"

ROAD WORK AHEAD
W20-1

CALUMET RD.

STH 181 / 76TH ST.

ONLY

154+00

153+00

152+00

10+00'C'

11+00'C'

12+00'C'

13+00'C'

25' (TYP)

250'

228'

55'

125'

16'

18'

10'

LEGEND

- WORK ZONE
- TEMPORARY PAVEMENT
- TEMPORARY CROSSWALK ACCESS
- TEMPORARY BUS STOP PAD
- TEMPORARY PAVEMENT TO BE USED IN FUTURE STAGES
- SIGNAL CONTROLLED INTERSECTION
- TRAFFIC FLOW ARROW
- DRUM WITH/WITHOUT LIGHT, TYPE C
- FLEXIBLE TUBULAR MARKERS
- SIGN MOUNTED ON POST
- SIGN MOUNTED ON TEMPORARY SUPPORT
- TYPE III BARRICADE WITH/WITHOUT SIGN
- REMOVING PAVEMENT MARKINGS

PROJECT NO: 2140-08-73	HWY: STH 181-N. 76TH ST.	COUNTY: MILWAUKEE	CONSTRUCTION STAGING - STAGE 2 PHASE I	SHEET 467	E

2

2

N

STH 181 / 76TH ST

ONLY

181+00

180+00

179+00

178+00

FOR LANE CLOSURE
SEE CONSTRUCTION DETAIL SHEET

END
ROAD WORK
G20-2A
48" X 24"

LANE
CLOSED
R11-2(MOD)
48" X 30"

ROAD
WORK
AHEAD
W20-1

16

14

12'

10'

9+00'B'

10+00'B'

11+00'B'

12+00'B'

BRADLEY ROAD

PAVEMENT MARKING LEGEND

(14) TEMPORARY PAVEMENT MARKING
STOP LINE REMOVABLE TAPE 18-INCH

(16) TEMPORARY PAVEMENT MARKING
REMOVABLE TAPE 4-INCH (DOUBLE YELLOW)

NOTE:

FOR SIDEWALK CLOSURE USE STANDARD DETAIL DRAWING "TRAFFIC CONTROL, SIDEWALK CLOSURE"

ALL TEMPORARY SOUTH BOUND PAVEMENT MARKINGS TO REMAIN IN STAGE 2 UNLESS OTHERWISE SPECIFIED

LEGEND

- WORK ZONE
- TEMPORARY PAVEMENT
- TEMPORARY CROSSWALK ACCESS
- TEMPORARY BUS STOP PAD
- TEMPORARY PAVEMENT TO BE USED IN FUTURE STAGES
- SIGNAL CONTROLLED INTERSECTION
- TRAFFIC FLOW ARROW
- DRUM WITH/WITHOUT LIGHT, TYPE C
- FLEXIBLE TUBULAR MARKERS
- SIGN MOUNTED ON POST
- SIGN MOUNTED ON TEMPORARY SUPPORT
- TYPE III BARRICADE WITH/WITHOUT SIGN
- REMOVING PAVEMENT MARKINGS

PROJECT NO: 2140-08-73	HWY: STH 181-N. 76TH ST.	COUNTY: MILWAUKEE	CONSTRUCTION STAGING - STAGE 2 PHASE I	SHEET E

FILE NAME : s:\@sdi\051--100\089\099\micros\design\0873\026136_s2_phasei.dgn PLOT DATE : 7/30/2007 PLOT BY : $$...plotuser...$$ PLOT NAME : PLOT SCALE : $$.....plotscale.....$$ WISDOT/CADDS SHEET 42

2

N

RUINS

ONLY

WELL

FOR LANE CLOSURE
SEE CONSTRUCTION DETAIL SHEET

END
ROAD WORK
G20-2A
48" X 24"

LANE
CLOSED
R11-2(MOD)
48" X 30"

9+00'B'

10+00'B'

11+00'B'

12'

12'

BRADLEY RD.

181+00

180+00

179+00

178+00

STH 181 / 76TH ST.

ROAD
WORK
AHEAD
W20-1

CAN

10+00'B'

11+00'B'

12+00'B'

BRADLEY RD.

12'

13'

14

16

PAVEMENT MARKING LEGEND

(14) TEMPORARY PAVEMENT MARKING
STOP LINE REMOVABLE TAPE 18-INCH

(16) TEMPORARY PAVEMENT MARKING
REMOVABLE TAPE 4-INCH (DOUBLE YELLOW)

NOTE:

FOR SIDEWALK CLOSURE USE STANDARD DETAIL DRAWING "TRAFFIC CONTROL, SIDEWALK CLOSURE"

ALL TEMPORARY SOUTH BOUND PAVEMENT MARKINGS TO REMAIN IN STAGE 2 UNLESS OTHERWISE SPECIFIED

LEGEND

- WORK ZONE
- TEMPORARY PAVEMENT
- TEMPORARY CROSSWALK ACCESS
- TEMPORARY BUS STOP PAD
- TEMPORARY PAVEMENT TO BE USED IN FUTURE STAGES
- SIGNAL CONTROLLED INTERSECTION
- TRAFFIC FLOW ARROW
- DRUM WITH/WITHOUT LIGHT, TYPE C
- FLEXIBLE TUBULAR MARKERS
- SIGN MOUNTED ON POST
- SIGN MOUNTED ON TEMPORARY SUPPORT
- TYPE III BARRICADE WITH/WITHOUT SIGN
- REMOVING PAVEMENT MARKINGS

PROJECT NO: 2140-08-73	HWY: STH 181-N. 76TH ST.	COUNTY: MILWAUKEE	CONSTRUCTION STAGING - STAGE 2 PHASE II	SHEET 469	E

2

N

NOTE:

FOR SIDEWALK CLOSURE USE STANDARD DETAIL DRAWING "TRAFFIC CONTROL, SIDEWALK CLOSURE"

ALL TEMPORARY SOUTH BOUND PAVEMENT MARKINGS TO REMAIN IN STAGE 2 UNLESS OTHERWISE SPECIFIED

END ROAD WORK
G20-2A
48" X 24"

ROAD WORK AHEAD
W20-1

62'
100'
12'
12'
16
10+00'D'
11+00'D'
14
DEAN RD
250'

LANE CLOSED
R11-2(MOD)
48" X 30"

ONLY
207+00
204+00
12+00'D'
55'
62'
10'
10'
14
13+00'D'
14+00'D'
16

ROAD WORK AHEAD
W20-1

STH 181 / 76TH ST
205+00
204+00
ONLY

END ROAD WORK
G20-2A
48" X 24"

PAVEMENT MARKING LEGEND

(14) TEMPORARY PAVEMENT MARKING STOP LINE REMOVABLE TAPE 18-INCH

(16) TEMPORARY PAVEMENT MARKING REMOVABLE TAPE 4-INCH (DOUBLE YELLOW)

LEGEND

- WORK ZONE
- TEMPORARY PAVEMENT
- TEMPORARY CROSSWALK ACCESS
- TEMPORARY BUS STOP PAD
- TEMPORARY PAVEMENT TO BE USED IN FUTURE STAGES
- SIGNAL CONTROLLED INTERSECTION
- TRAFFIC FLOW ARROW
- DRUM WITH/WITHOUT LIGHT, TYPE C
- FLEXIBLE TUBULAR MARKERS
- SIGN MOUNTED ON POST
- SIGN MOUNTED ON TEMPORARY SUPPORT
- TYPE III BARRICADE WITH/WITHOUT SIGN
- REMOVING PAVEMENT MARKINGS

PROJECT NO: 2140-08-73	HWY: STH 181-N. 76TH ST.	COUNTY: MILWAUKEE	CONSTRUCTION STAGING - STAGE 2 PHASE 1	SHEET 470	E

2

N

NOTE:

FOR SIDEWALK CLOSURE USE STANDARD DETAIL DRAWING "TRAFFIC CONTROL, SIDEWALK CLOSURE"

ALL TEMPORARY SOUTH BOUND PAVEMENT MARKINGS TO REMAIN IN STAGE 2 UNLESS OTHERWISE SPECIFIED

END ROAD WORK
G20-2A
48" X 24"

62'

103'

ROAD WORK AHEAD
W20-1

DEAN RD

10+00'D'

11+00'D'

16

14

250'

ONLY

207+00

204+00

12+00'D'

25' (TYP)

13+00'D'

ROAD CLOSED
R11-2
48" X 30"

W01-6
48" X 24"

ROAD WORK AHEAD
W20-1

14+00'D'

25' (TYP)

110'

63'

END ROAD WORK
G20-2A
48" X 24"

STH 181 / 76TH ST

205+00

ONLY

202+00

PAVEMENT MARKING LEGEND

(14) TEMPORARY PAVEMENT MARKING STOP LINE REMOVABLE TAPE 18-INCH

(16) TEMPORARY PAVEMENT MARKING REMOVABLE TAPE 4-INCH (DOUBLE YELLOW)

LEGEND

- WORK ZONE
- TEMPORARY PAVEMENT
- TEMPORARY CROSSWALK ACCESS
- TEMPORARY BUS STOP PAD
- TEMPORARY PAVEMENT TO BE USED IN FUTURE STAGES
- SIGNAL CONTROLLED INTERSECTION
- TRAFFIC FLOW ARROW
- DRUM WITH/WITHOUT LIGHT, TYPE C
- FLEXIBLE TUBULAR MARKERS
- SIGN MOUNTED ON POST
- SIGN MOUNTED ON TEMPORARY SUPPORT
- TYPE III BARRICADE WITH/WITHOUT SIGN
- REMOVING PAVEMENT MARKINGS

PROJECT NO: 2140-08-73	HWY: STH 181-N. 76TH ST.	COUNTY: MILWAUKEE	CONSTRUCTION STAGING - STAGE 2 PHASE II	SHEET 471	E

FILE NAME : s:\@sai\051--100\089\099\micros\design\0873\026137_s2_phase ii.dgn PLOT DATE : 7/30/2007 PLOT BY : $$...plotuser...$$ PLOT NAME : PLOT SCALE : $$.....plotscale.....$$ WISDOT/CADDS SHEET 42

2

PAVEMENT MARKING LEGEND

④ TEMPORARY PAVEMENT MARKING REMOVABLE TAPE 4-INCH (WHITE)

⑥ TEMPORARY PAVEMENT MARKING REMOVABLE TAPE 4-INCH (YELLOW)

W. CLINTON

N

NOTE:

FOR SIDEWALK CLOSURE USE STANDARD DETAIL DRAWING "TRAFFIC CONTROL, SIDEWALK CLOSURE"

U/C

11'

11'

④

25' (TYP)

⑥

135+00

136+00

137+00

138+00

139+00

140

MATCH LINE STA. 140+00

STH 181 / 76TH ST

MH

11'

11'

FOR LANE CLOSURE
USE STANDARD DETAIL DRAWING
"TRAFFIC CONTROL SINGLE LANE CLOSURE, NON-FREEWAY/EXPRESSWAY"

LEGEND

- WORK ZONE
- TEMPORARY PAVEMENT
- TEMPORARY CROSSWALK ACCESS
- TEMPORARY BUS STOP PAD
- TEMPORARY PAVEMENT TO BE USED IN FUTURE STAGES
- SIGNAL CONTROLLED INTERSECTION
- TRAFFIC FLOW ARROW
- DRUM WITH/WITHOUT LIGHT, TYPE C
- FLEXIBLE TUBULAR MARKERS
- SIGN MOUNTED ON POST
- SIGN MOUNTED ON TEMPORARY SUPPORT
- TYPE III BARRICADE WITH/WITHOUT SIGN
- REMOVING PAVEMENT MARKINGS

PROJECT NO: 2140-08-73	HWY: STH 181-N. 76TH ST.	COUNTY: MILWAUKEE	CONSTRUCTION STAGING - STAGE 3	SHEET 472	E

2

2

RUINS

PAVEMENT MARKING LEGEND

- (2) TEMPORARY PAVEMENT MARKING REMOVABLE TAPE 4-INCH (DASHED WHITE)
- (4) TEMPORARY PAVEMENT MARKING REMOVABLE TAPE 4-INCH (WHITE)
- (6) TEMPORARY PAVEMENT MARKING REMOVABLE TAPE 4-INCH (YELLOW)
- (16) TEMPORARY PAVEMENT MARKING REMOVABLE TAPE 4-INCH (DOUBLE YELLOW)
- (17) PAVEMENT MARKING WET REFLECTIVE TAPE 4-INCH (DASHED WHITE)

N

NO U-TURN R7-1D 18" X 24" — 1-4

NO U-TURN R7-1D 18" X 24" — 1-8

SPEED LIMIT 40 R2-1 24" X 30" — 1-3

MATCH LINE STA. 140+00

140+00 — 25' (TYP) — 141+00 — 142+00 — 143+00 — 144+00 — 145+00 — 146

50' (TYP)

25' (TYP) — 7.5' (TYP)

10' — 10' — 10' — 11'

STH 181 / 76TH ST

MATCH LINE STA. 146+00

W06-3

LEGEND

- WORK ZONE
- TEMPORARY PAVEMENT
- TEMPORARY CROSSWALK ACCESS
- TEMPORARY BUS STOP PAD
- TEMPORARY PAVEMENT TO BE USED IN FUTURE STAGES
- SIGNAL CONTROLLED INTERSECTION
- TRAFFIC FLOW ARROW
- DRUM WITH/WITHOUT LIGHT, TYPE C
- FLEXIBLE TUBULAR MARKERS
- SIGN MOUNTED ON POST
- SIGN MOUNTED ON TEMPORARY SUPPORT
- TYPE III BARRICADE WITH/WITHOUT SIGN
- REMOVING PAVEMENT MARKINGS

NOTE:

FOR SIDEWALK CLOSURE USE STANDARD DETAIL DRAWING "TRAFFIC CONTROL, SIDEWALK CLOSURE"

PROJECT NO: 2140-08-73	HWY: STH 181-N. 76TH ST.	COUNTY: MILWAUKEE	CONSTRUCTION STAGING - STAGE 3	SHEET 473	E

PAVEMENT MARKING LEGEND

1. TEMPORARY PAVEMENT MARKING 4-INCH (DASHED WHITE)
2. TEMPORARY PAVEMENT MARKING REMOVABLE TAPE 4-INCH (DASHED WHITE)
10. TEMPORARY PAVEMENT MARKING WORDS REMOVABLE TAPE (TYP)
12. TEMPORARY PAVEMENT MARKING REMOVABLE TAPE 8-INCH (CHANNELIZING)
16. TEMPORARY PAVEMENT MARKING REMOVABLE TAPE 4-INCH (DOUBLE YELLOW)
17. PAVEMENT MARKING WET REFLECTIVE TAPE 4-INCH (DASHED WHITE)

N

STOP R1-1 30" X 30" — 2-1

ROAD CLOSED R11-2 48" X 30"

W06-3

EXISTING SIGN TO BE MOVED

SPEED LIMIT 40 R2-1 24" X 30" — 2-5

NO PARKING R7-1D 18" X 24" — 2-6

MOVE SIGN TO HERE

SPEED LIMIT 40 R2-1 24" X 30" — 2-5

EXISTING SIGN TO BE MOVED

CALUMET RD 7600 N M1-94A — 2-8

W06-3

MATCH LINE STA. 146+00

147+00 148+00 149+00 150+00 151+00 152

25'(TYP) 50'(TYP) 25'(TYP)

10' 10' 10' 11'

+39.00

MATCH LINE STA. 152+00

STH 181 / 76TH ST

2-4

W3-3 36" X 36"

110' 100'

MOVE SIGN TO HERE

CALUMET RD 7600 N M1-94A — 2-8

NOTE:

FOR SIDEWALK CLOSURE USE STANDARD DETAIL DRAWING "TRAFFIC CONTROL, SIDEWALK CLOSURE"

LEGEND

- WORK ZONE
- TEMPORARY PAVEMENT
- TEMPORARY CROSSWALK ACCESS
- TEMPORARY BUS STOP PAD
- TEMPORARY PAVEMENT TO BE USED IN FUTURE STAGES
- SIGNAL CONTROLLED INTERSECTION
- TRAFFIC FLOW ARROW
- DRUM WITH/WITHOUT LIGHT, TYPE C
- FLEXIBLE TUBULAR MARKERS
- SIGN MOUNTED ON POST
- SIGN MOUNTED ON TEMPORARY SUPPORT
- TYPE III BARRICADE WITH/WITHOUT SIGN
- REMOVING PAVEMENT MARKINGS

PROJECT NO: 2140-08-73	HWY: STH 181-N. 76TH ST.	COUNTY: MILWAUKEE	CONSTRUCTION STAGING - STAGE 3	SHEET 474	E

NOTE:

FOR SIDEWALK CLOSURE USE STANDARD DETAIL DRAWING "TRAFFIC CONTROL, SIDEWALK CLOSURE"

** = AREA TO BE MAINTAINED AT ALL TIMES FOR TURNING MOVEMENTS EXCEPT FOR SPECIFIC WORK OPERATIONS IN THIS AREA

MOVE SIGN TO HERE

EXISTING SIGN TO BE MOVED

STA. 155+91 LT
MAINTAIN TEMPORARY
ACCESS, SEE DETAIL

STA. 157+60 LT
MAINTAIN TEMPORARY
ACCESS, SEE DETAIL

MATCH LINE STA. 152+00

MATCH LINE STA. 158+00

STH 181 / 76TH ST

CALUMET

11+00 CT

153+00

154+00

155+00

156+00

157+00

+47.00

25' (TYP)

50' (TYP)

10'

10'

10'

11'

100'

100'

110'

PAVEMENT MARKING LEGEND

(2) TEMPORARY PAVEMENT MARKING REMOVABLE TAPE 4-INCH (DASHED WHITE)

(8) TEMPORARY PAVEMENT MARKING ARROWS REMOVABLE TAPE (TYP)

(10) TEMPORARY PAVEMENT MARKING WORDS REMOVABLE TAPE (TYP)

(12) TEMPORARY PAVEMENT MARKING REMOVABLE TAPE 8-INCH (CHANNELIZING)

(14) TEMPORARY PAVEMENT MARKING STOP LINE REMOVABLE TAPE 18-INCH

(16) TEMPORARY PAVEMENT MARKING REMOVABLE TAPE 4-INCH (DOUBLE YELLOW)

(17) PAVEMENT MARKING WET REFLECTIVE TAPE 4-INCH (DASHED WHITE)

LEGEND

- WORK ZONE
- TEMPORARY PAVEMENT
- TEMPORARY CROSSWALK ACCESS
- TEMPORARY BUS STOP PAD
- TEMPORARY PAVEMENT TO BE USED IN FUTURE STAGES
- SIGNAL CONTROLLED INTERSECTION
- TRAFFIC FLOW ARROW
- DRUM WITH/WITHOUT LIGHT, TYPE C
- FLEXIBLE TUBULAR MARKERS
- SIGN MOUNTED ON POST
- SIGN MOUNTED ON TEMPORARY SUPPORT
- TYPE III BARRICADE WITH/WITHOUT SIGN
- REMOVING PAVEMENT MARKINGS

PROJECT NO: 2140-08-73	HWY: STH 181-N. 76TH ST.	COUNTY: MILWAUKEE	CONSTRUCTION STAGING - STAGE 3 PHASE I	SHEET 475	E

2

N

NOTE:
FOR SIDEWALK CLOSURE USE STANDARD DETAIL DRAWING "TRAFFIC CONTROL, SIDEWALK CLOSURE"

CALUMET

11+00C

W1-4B
35 M.P.H.
W013-1
24" X 24"

STA. 155+91 LT
MAINTAIN TEMPORARY
ACCESS, SEE DETAIL

W1-4B
35 M.P.H.
W013-1
24" X 24"

STA. 157+60 LT
MAINTAIN TEMPORARY
ACCESS, SEE DETAIL

MATCH LINE STA. 152+00

152+00

153+00

11+00CT

154+00

25' (TYP)

155+00

156+00

157+00

50' (TYP)

158

MATCH LINE STA. 158+00

10'

10'

10'

11'

25' (TYP)

+47.00

STH 181 / 76TH ST

R4-7
24" X 30"

100'

100'

110'

W06-3

11+00CT

PAVEMENT MARKING LEGEND

1. TEMPORARY PAVEMENT MARKING 4-INCH (DASHED WHITE)
2. TEMPORARY PAVEMENT MARKING REMOVABLE TAPE 4-INCH (DASHED WHITE)
8. TEMPORARY PAVEMENT MARKING ARROWS REMOVABLE TAPE (TYP)
10. TEMPORARY PAVEMENT MARKING WORDS REMOVABLE TAPE (TYP)
12. TEMPORARY PAVEMENT MARKING REMOVABLE TAPE 8-INCH (CHANNELIZING)
14. TEMPORARY PAVEMENT MARKING STOP LINE REMOVABLE TAPE 18-INCH
16. TEMPORARY PAVEMENT MARKING REMOVABLE TAPE 4-INCH (DOUBLE YELLOW)
17. PAVEMENT MARKING WET REFLECTIVE TAPE 4-INCH (DASHED WHITE)

** = AREA TO BE MAINTAINED AT ALL TIMES FOR TURNING MOVEMENTS EXCEPT FOR SPECIFIC WORK OPERATIONS IN THIS AREA

* PLACED DURING PHASE I

LEGEND

- WORK ZONE
- TEMPORARY PAVEMENT
- TEMPORARY CROSSWALK ACCESS
- TEMPORARY BUS STOP PAD
- TEMPORARY PAVEMENT TO BE USED IN FUTURE STAGES
- SIGNAL CONTROLLED INTERSECTION
- TRAFFIC FLOW ARROW
- DRUM WITH/WITHOUT LIGHT, TYPE C
- FLEXIBLE TUBULAR MARKERS
- SIGN MOUNTED ON POST
- SIGN MOUNTED ON TEMPORARY SUPPORT
- TYPE III BARRICADE WITH/WITHOUT SIGN
- REMOVING PAVEMENT MARKINGS

PROJECT NO: 2140-08-73	HWY: STH 181-N. 76TH ST.	COUNTY: MILWAUKEE	CONSTRUCTION STAGING - STAGE 3 PHASE II	SHEET 476	E

2

N

EXISTING SIGN TO BE MOVED

4-2

CALUMET RD
7600 N
M1-94A

4-3

NO PARKING
R7-1D
18" X 24"

STA. 158+64 LT
MAINTAIN TEMPORARY
ACCESS, SEE DETAIL

STA. 160+70 LT
MAINTAIN TEMPORARY
ACCESS, SEE DETAIL

NOTE:

FOR SIDEWALK CLOSURE USE STANDARD DETAIL DRAWING "TRAFFIC CONTROL, SIDEWALK CLOSURE"

4-5

NO PARKING
R7-1D
18" X 24"

MATCH LINE STA. 158+00

00 159+00 160+00 161+00 162+00 163+00 164

MATCH LINE STA. 164+00

25' (TYP)

50' (TYP)

25' (TYP)

10'
10'
10'
11'

②

⑯

⑰

STH 181 / 76TH ST

MOVE SIGN TO HERE

4-2

CALUMET RD
7600 N
M1-94A

PAVEMENT MARKING LEGEND

② TEMPORARY PAVEMENT MARKING REMOVABLE TAPE 4-INCH (DASHED WHITE)

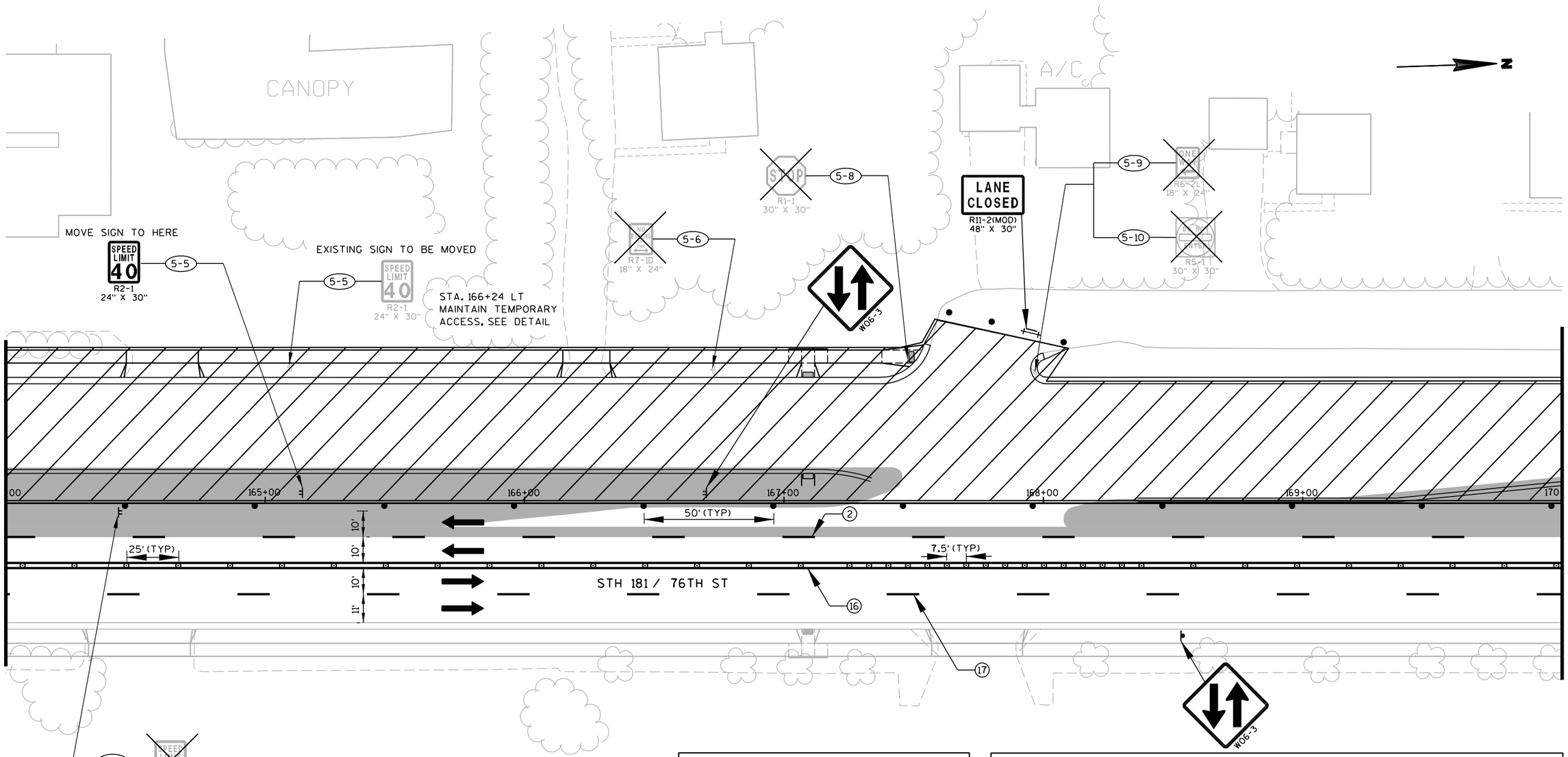
⑯ TEMPORARY PAVEMENT MARKING REMOVABLE TAPE 4-INCH (DOUBLE YELLOW)

⑰ PAVEMENT MARKING WET REFLECTIVE TAPE 4-INCH (DASHED WHITE)

LEGEND

- WORK ZONE
- TEMPORARY PAVEMENT
- TEMPORARY CROSSWALK ACCESS
- TEMPORARY BUS STOP PAD
- TEMPORARY PAVEMENT TO BE USED IN FUTURE STAGES
- SIGNAL CONTROLLED INTERSECTION
- TRAFFIC FLOW ARROW
- DRUM WITH/WITHOUT LIGHT, TYPE C
- FLEXIBLE TUBULAR MARKERS
- SIGN MOUNTED ON POST
- SIGN MOUNTED ON TEMPORARY SUPPORT
- TYPE III BARRICADE WITH/WITHOUT SIGN
- REMOVING PAVEMENT MARKINGS

2



NOTE:

FOR SIDEWALK CLOSURE USE STANDARD DETAIL DRAWING "TRAFFIC CONTROL, SIDEWALK CLOSURE"

PAVEMENT MARKING LEGEND

(2) TEMPORARY PAVEMENT MARKING REMOVABLE TAPE 4-INCH (DASHED WHITE)

(16) TEMPORARY PAVEMENT MARKING REMOVABLE TAPE 4-INCH (DOUBLE YELLOW)

(17) PAVEMENT MARKING WET REFLECTIVE TAPE 4-INCH (DASHED WHITE)

LEGEND

- WORK ZONE
- TEMPORARY PAVEMENT
- TEMPORARY CROSSWALK ACCESS
- TEMPORARY BUS STOP PAD
- TEMPORARY PAVEMENT TO BE USED IN FUTURE STAGES
- SIGNAL CONTROLLED INTERSECTION
- TRAFFIC FLOW ARROW
- DRUM WITH/WITHOUT LIGHT, TYPE C
- FLEXIBLE TUBULAR MARKERS
- SIGN MOUNTED ON POST
- SIGN MOUNTED ON TEMPORARY SUPPORT
- TYPE III BARRICADE WITH/WITHOUT SIGN
- REMOVING PAVEMENT MARKINGS

PROJECT NO: 2140-08-73	HWY: STH 181-N. 76TH ST.	COUNTY: MILWAUKEE	CONSTRUCTION STAGING - STAGE 3 PHASE I	SHEET 478	E

2

CANOPY

A/C

N

NOTE:

FOR SIDEWALK CLOSURE USE STANDARD DETAIL DRAWING "TRAFFIC CONTROL, SIDEWALK CLOSURE"

STA. 166+24 LT
MAINTAIN TEMPORARY
ACCESS, SEE DETAIL

W06-3

LANE CLOSED
R11-2(MOD)
48" X 30"

MATCH LINE STA. 164+00

165+00

166+00

167+00

168+00

169+00

170

MATCH LINE STA. 170+00

50' (TYP)

2

10'

10'

10'

11'

STH 181 / 76TH ST

7.5' (TYP)

16

17

W1-6
48" X 24"

W06-3

PAVEMENT MARKING LEGEND

(2) TEMPORARY PAVEMENT MARKING REMOVABLE TAPE 4-INCH (DASHED WHITE)

(16) TEMPORARY PAVEMENT MARKING REMOVABLE TAPE 4-INCH (DOUBLE YELLOW)

(17) PAVEMENT MARKING WET REFLECTIVE TAPE 4-INCH (DASHED WHITE)

LEGEND

- WORK ZONE
- TEMPORARY PAVEMENT
- TEMPORARY CROSSWALK ACCESS
- TEMPORARY BUS STOP PAD
- TEMPORARY PAVEMENT TO BE USED IN FUTURE STAGES
- SIGNAL CONTROLLED INTERSECTION
- TRAFFIC FLOW ARROW
- DRUM WITH/WITHOUT LIGHT, TYPE C
- FLEXIBLE TUBULAR MARKERS
- SIGN MOUNTED ON POST
- SIGN MOUNTED ON TEMPORARY SUPPORT
- TYPE III BARRICADE WITH/WITHOUT SIGN
- REMOVING PAVEMENT MARKINGS

PROJECT NO: 2140-08-73	HWY: STH 181-N. 76TH ST.	COUNTY: MILWAUKEE	CONSTRUCTION STAGING - STAGE 3 PHASE II	SHEET 479	E

PAVEMENT MARKING LEGEND

(2) TEMPORARY PAVEMENT MARKING REMOVABLE TAPE 4-INCH (DASHED WHITE)

(16) TEMPORARY PAVEMENT MARKING REMOVABLE TAPE 4-INCH (DOUBLE YELLOW)

◯ PAVEMENT MARKING WET REFLECTIVE TAPE 4-INCH (DASHED WHITE)

NOTE:
FOR SIDEWALK CLOSURE USE STANDARD DETAIL DRAWING "TRAFFIC CONTROL, SIDEWALK CLOSURE"

N

MOVE SIGN TO HERE

EXISTING SIGN TO BE MOVED

SPEED LIMIT 40 R2-1 24" X 30"

NO OUTLET R7-1D 18" X 24"

R5-2 24" X 12"

STOP R1-1 30" X 30"

ONE R6-2L 18" X 24"

OUTLET W14-2 30" X 30"

TRANSIT

W06-3

LANE CLOSED R11-2(MOD) 48" X 30"

STA. 174+27 LT MAINTAIN TEMPORARY ACCESS, SEE DETAIL

LOLITA AVE

7+00

11+00

8+00'F'

9+00'F'

MATCH LINE STA. 170+00

MATCH LINE STA. 176+00

170+00 171+00 172+00 173+00 174+00 176

50' (TYP)

25' (TYP)

7.5' (TYP)

10'

10'

10'

11'

STH 181 / 76TH ST

Bradley Rd 8000 N M1-94A

W3-3 36" X 36"

LEGEND

- WORK ZONE
- TEMPORARY PAVEMENT
- TEMPORARY CROSSWALK ACCESS
- TEMPORARY BUS STOP PAD
- TEMPORARY PAVEMENT TO BE USED IN FUTURE STAGES
- SIGNAL CONTROLLED INTERSECTION
- TRAFFIC FLOW ARROW
- DRUM WITH/WITHOUT LIGHT, TYPE C
- FLEXIBLE TUBULAR MARKERS
- SIGN MOUNTED ON POST
- SIGN MOUNTED ON TEMPORARY SUPPORT
- TYPE III BARRICADE WITH/WITHOUT SIGN
- REMOVING PAVEMENT MARKINGS

PROJECT NO: 2140-08-73	HWY: STH 181-N. 76TH ST.	COUNTY: MILWAUKEE	CONSTRUCTION STAGING - STAGE 3 PHASE 1	SHEET 480	E

2

PAVEMENT MARKING LEGEND

(2) TEMPORARY PAVEMENT MARKING REMOVABLE TAPE 4-INCH (DASHED WHITE)

(16) TEMPORARY PAVEMENT MARKING REMOVABLE TAPE 4-INCH (DOUBLE YELLOW)

(17) PAVEMENT MARKING WET REFLECTIVE TAPE 4-INCH (DASHED WHITE)

LOLITA AVE

A/C

W06-3

8+00'F'

9+00'F'

STA. 174+27 LT
MAINTAIN TEMPORARY
ACCESS, SEE DETAIL

NOTE:

FOR SIDEWALK CLOSURE USE STANDARD DETAIL DRAWING "TRAFFIC CONTROL, SIDEWALK CLOSURE"

**

MATCH LINE STA. 170+00

171+00

172+00

173+00

174+00

175+00

176

50' (TYP)

25' (TYP)

10'

10'

10'

11'

7.5' (TYP)

(2)

(16)

(17)

STH 181 / 76TH ST

MATCH LINE STA. 176+00

** = AREA TO BE MAINTAINED AT ALL TIMES FOR LOLITA AVE EXCEPT FOR SPECIFIC WORK OPERATIONS IN THIS AREA

LEGEND

- WORK ZONE
- TEMPORARY PAVEMENT
- TEMPORARY CROSSWALK ACCESS
- TEMPORARY BUS STOP PAD
- TEMPORARY PAVEMENT TO BE USED IN FUTURE STAGES
- SIGNAL CONTROLLED INTERSECTION
- TRAFFIC FLOW ARROW
- DRUM WITH/WITHOUT LIGHT, TYPE C
- FLEXIBLE TUBULAR MARKERS
- SIGN MOUNTED ON POST
- SIGN MOUNTED ON TEMPORARY SUPPORT
- TYPE III BARRICADE WITH/WITHOUT SIGN
- REMOVING PAVEMENT MARKINGS

PROJECT NO: 2140-08-73	HWY: STH 181-N. 76TH ST.	COUNTY: MILWAUKEE	CONSTRUCTION STAGING - STAGE 3 PHASE II	SHEET 481	E

2

NOTE:

FOR SIDEWALK CLOSURE USE STANDARD DETAIL DRAWING "TRAFFIC CONTROL, SIDEWALK CLOSURE"

EXISTING SIGN TO BE MOVED

M 3-3 24" X 12"
M1-6 24" X 24"
SOUTH 181
J1-1 24" X 39"
7-6

MOVE SIGN TO HERE

M 3-3 24" X 12"
M1-6 24" X 24"
SOUTH 181
J1-1 24" X 39"
7-6

EXISTING SIGN TO BE MOVED

SPEED LIMIT 40
R2-1 24" X 30"
7-2

NO LIVE
R7-1D 18" X 24"
7-3

MOVE SIGN TO HERE

W06-3

SPEED LIMIT 40
R2-1 24" X 30"
7-2

W1-4B

35 M.P.H.
W013-1 24" X 24"

BRADLEY

M3-1 24" X 12"
M1-6 24" X 24"
NORTH 181
J1-1 24" X 39"
7-17

7-13
R4-7 24" X 30"

7-16
TRANSIT

STA. 181+22 LT
MAINTAIN TEMPORARY ACCESS, SEE DETAIL

STA. 181+66 LT
MAINTAIN TEMPORARY ACCESS, SEE DETAIL

PAVEMENT MARKING LEGEND

(2) TEMPORARY PAVEMENT MARKING REMOVABLE TAPE 4-INCH (DASHED WHITE)
(8) TEMPORARY PAVEMENT MARKING ARROWS REMOVABLE TAPE (TYP)
(10) TEMPORARY PAVEMENT MARKING WORDS REMOVABLE TAPE (TYP)
(12) TEMPORARY PAVEMENT MARKING REMOVABLE TAPE 8-INCH (CHANNELIZING)
(14) TEMPORARY PAVEMENT MARKING STOP LINE REMOVABLE TAPE 18-INCH
(16) TEMPORARY PAVEMENT MARKING REMOVABLE TAPE 4-INCH (DOUBLE YELLOW)
(17) PAVEMENT MARKING WET REFLECTIVE TAPE 4-INCH (DASHED WHITE)

MATCH LINE STA. 176+00

177+00 178+00 179+00 180+00 181+00 182

25' (TYP) 50' (TYP) 25' (TYP)

10' 10' 10' 11'

+66.00

110' 100'

** = AREA TO BE MAINTAINED AT ALL TIMES FOR TURNING MOVEMENTS EXCEPT FOR SPECIFIC WORK OPERATIONS IN THIS AREA

MATCH LINE STA. 182+00

STH 181 / 76TH ST

100' 110'

SPEED LIMIT 40
R2-1 24" X 30"
7-22

W06-3

250'

ROAD WORK AHEAD
W20-1

END ROAD WORK
G20-2A 48" X 24"

LEGEND

- WORK ZONE
- TEMPORARY PAVEMENT
- TEMPORARY CROSSWALK ACCESS
- TEMPORARY BUS STOP PAD
- TEMPORARY PAVEMENT TO BE USED IN FUTURE STAGES
- SIGNAL CONTROLLED INTERSECTION
- TRAFFIC FLOW ARROW
- DRUM WITH/WITHOUT LIGHT, TYPE C
- FLEXIBLE TUBULAR MARKERS
- SIGN MOUNTED ON POST
- SIGN MOUNTED ON TEMPORARY SUPPORT
- TYPE III BARRICADE WITH/WITHOUT SIGN
- REMOVING PAVEMENT MARKINGS

PROJECT NO: 2140-08-73	HWY: STH 181-N. 76TH ST.	COUNTY: MILWAUKEE	CONSTRUCTION STAGING - STAGE 3 PHASE 1	SHEET 482	E

2

NOTE:

FOR SIDEWALK CLOSURE USE STANDARD DETAIL DRAWING "TRAFFIC CONTROL, SIDEWALK CLOSURE"

* = PLACED IN PHASE I

N

BRADLEY

W06-3

W1-4B

35 M.P.H.
W013-1
24" X 24"

STA. 181+22 LT
MAINTAIN TEMPORARY
ACCESS, SEE DETAIL

STA. 181+66 LT
MAINTAIN TEMPORARY
ACCESS, SEE DETAIL

MATCH LINE STA. 176+00

177+00

178+00

179+00

180+00

181+00

182+00

MATCH LINE STA. 182+00

25' (TYP)

50' (TYP)

25' (TYP)

+66.00

10'

10'

10'

11'

18.00'

18.00'

18.00'

*(16)

*(14)

*(12)

*(10)

*(8)

(2)*

(16)*

(17)*

**

R4-7
24" X 30"

R4-7
24" X 30"

STH 181 / 76TH ST

110'

100'

100'

110'

** = AREA TO BE MAINTAINED AT ALL TIMES FOR TURNING MOVEMENTS EXCEPT FOR SPECIFIC WORK OPERATIONS IN THIS AREA

LANE USED FOR RIGHT TURNS FROM NORTH BOUND STH 181

W06-3

LEGEND

- WORK ZONE
- TEMPORARY PAVEMENT
- TEMPORARY CROSSWALK ACCESS
- TEMPORARY BUS STOP PAD
- TEMPORARY PAVEMENT TO BE USED IN FUTURE STAGES
- SIGNAL CONTROLLED INTERSECTION
- TRAFFIC FLOW ARROW
- DRUM WITH/WITHOUT LIGHT, TYPE C
- FLEXIBLE TUBULAR MARKERS
- SIGN MOUNTED ON POST
- SIGN MOUNTED ON TEMPORARY SUPPORT
- TYPE III BARRICADE WITH/WITHOUT SIGN
- REMOVING PAVEMENT MARKINGS

PAVEMENT MARKING LEGEND

- (2) TEMPORARY PAVEMENT MARKING REMOVABLE TAPE 4-INCH (DASHED WHITE)
- (8) TEMPORARY PAVEMENT MARKING ARROWS REMOVABLE TAPE (TYP)
- (10) TEMPORARY PAVEMENT MARKING WORDS REMOVABLE TAPE (TYP)
- (12) TEMPORARY PAVEMENT MARKING REMOVABLE TAPE 8-INCH (CHANNELIZING)
- (14) TEMPORARY PAVEMENT MARKING STOP LINE REMOVABLE TAPE 18-INCH
- (16) TEMPORARY PAVEMENT MARKING REMOVABLE TAPE 4-INCH (DOUBLE YELLOW)
- (17) PAVEMENT MARKING WET REFLECTIVE TAPE 4-INCH (DASHED WHITE)

PROJECT NO: 2140-08-73	HWY: STH 181-N. 76TH ST.	COUNTY: MILWAUKEE	CONSTRUCTION STAGING - STAGE 3 PHASE II	SHEET 483	E

NOTE:

FOR SIDEWALK CLOSURE USE STANDARD DETAIL DRAWING "TRAFFIC CONTROL, SIDEWALK CLOSURE"

FOR ROAD CLOSURE USE STANDARD DETAIL DRAWING "BARRICADES AND SIGNS FOR SIDE ROAD CLOUSERS (DETAIL 1)"

EXISTING SIGNS TO BE MOVED

JCT M2-1 21" X 15" — 8-3
Bradley Rd 8000 N M1-94A — 8-4
NO TURN R7-1D 18" X 24" — 8-1
W1-4B
35 M.P.H. W013-1 24" X 24"

MOVE SIGNS TO HERE

8-3 JCT M2-1 21" X 15"
8-4 Bradley Rd 8000 N M1-94A
W1-4B
35 M.P.H. W013-1 24" X 24"

LANE CLOSED R11-2(MOD) 48" X 30"

TOWER AVE

SPEED LIMIT 40 R2-1 24" X 30" — 8-17
8-13 TRANSIT
NO TURN R7-1D 18" X 24" — 8-18

MATCH LINE STA. 182+00

183+00 184+00 185+00 186+00 187+00 188

50' (TYP)
25' (TYP)
+10.00
+70.00
10' 10' 10' 11'

STH 181 / 76TH ST

110' 100'

LANE CLOSED R11-2(MOD) 48" X 30"

W06-3

MATCH LINE STA. 188+00

PAVEMENT MARKING LEGEND

(2) TEMPORARY PAVEMENT MARKING REMOVABLE TAPE 4-INCH (DASHED WHITE)
(4) TEMPORARY PAVEMENT MARKING REMOVABLE TAPE 4-INCH (WHITE)
(8) TEMPORARY PAVEMENT MARKING ARROWS REMOVABLE TAPE (TYP)
(10) TEMPORARY PAVEMENT MARKING WORDS REMOVABLE TAPE (TYP)
(12) TEMPORARY PAVEMENT MARKING REMOVABLE TAPE 8-INCH (CHANNELIZING)
(14) TEMPORARY PAVEMENT MARKING STOP LINE REMOVABLE TAPE 18-INCH
(16) TEMPORARY PAVEMENT MARKING REMOVABLE TAPE 4-INCH (DOUBLE YELLOW)
(17) PAVEMENT MARKING WET REFLECTIVE TAPE 4-INCH (DASHED WHITE)

LEGEND

- WORK ZONE
- TEMPORARY PAVEMENT
- TEMPORARY CROSSWALK ACCESS
- TEMPORARY BUS STOP PAD
- TEMPORARY PAVEMENT TO BE USED IN FUTURE STAGES
- SIGNAL CONTROLLED INTERSECTION
- TRAFFIC FLOW ARROW
- DRUM WITH/WITHOUT LIGHT, TYPE C
- FLEXIBLE TUBULAR MARKERS
- SIGN MOUNTED ON POST
- SIGN MOUNTED ON TEMPORARY SUPPORT
- TYPE III BARRICADE WITH/WITHOUT SIGN
- REMOVING PAVEMENT MARKINGS

PROJECT NO: 2140-08-73	HWY: STH 181-N. 76TH ST.	COUNTY: MILWAUKEE	CONSTRUCTION STAGING - STAGE 3 PHASE I	SHEET 484	E

PAVEMENT MARKING LEGEND

- (2) TEMPORARY PAVEMENT MARKING REMOVABLE TAPE 4-INCH (DASHED WHITE)
- (8) TEMPORARY PAVEMENT MARKING ARROWS REMOVABLE TAPE (TYP)
- (10) TEMPORARY PAVEMENT MARKING WORDS REMOVABLE TAPE (TYP)
- (12) TEMPORARY PAVEMENT MARKING REMOVABLE TAPE 8-INCH (CHANNELIZING)
- (14) TEMPORARY PAVEMENT MARKING STOP LINE REMOVABLE TAPE 18-INCH
- (16) TEMPORARY PAVEMENT MARKING REMOVABLE TAPE 4-INCH (DOUBLE YELLOW)
- (17) PAVEMENT MARKING WET REFLECTIVE TAPE 4-INCH (DASHED WHITE)

ROAD WORK AHEAD W20-1

W1-4B

35 M.P.H. W013-1 24" X 24"

STA. 184+08 LT MAINTAIN TEMPORARY ACCESS, SEE DETAIL

STA. 183+71 LT MAINTAIN TEMPORARY ACCESS, SEE DETAIL

W1-4B

35 M.P.H. W013-1 24" X 24"

END ROAD WORK G20-2A 48" X 24"

TOWER AVE

NOTE:

FOR SIDEWALK CLOSURE USE STANDARD DETAIL DRAWING "TRAFFIC CONTROL, SIDEWALK CLOSURE"

MATCH LINE STA. 182+00

183+00 184+00 185+00 186+00 187+00 188

+10.00 25' (TYP) +70.00

10' 10' 11' 10' 10' 11'

STH 181 / 76TH ST

110' 100'

R4-7 24" X 30"

LANE CLOSED R11-2(MOD) 48" X 30"

R4-7 24" X 30"

W06-3

MATCH LINE STA. 188+00

LEGEND

- WORK ZONE
- TEMPORARY PAVEMENT
- TEMPORARY CROSSWALK ACCESS
- TEMPORARY BUS STOP PAD
- TEMPORARY PAVEMENT TO BE USED IN FUTURE STAGES
- SIGNAL CONTROLLED INTERSECTION
- TRAFFIC FLOW ARROW
- DRUM WITH/WITHOUT LIGHT, TYPE C
- FLEXIBLE TUBULAR MARKERS
- SIGN MOUNTED ON POST
- SIGN MOUNTED ON TEMPORARY SUPPORT
- TYPE III BARRICADE WITH/WITHOUT SIGN
- REMOVING PAVEMENT MARKINGS

2

PAVEMENT MARKING LEGEND

(16) TEMPORARY PAVEMENT MARKING REMOVABLE TAPE 4-INCH (DOUBLE YELLOW)

(17) PAVEMENT MARKING WET REFLECTIVE TAPE 4-INCH (DASHED WHITE)

N

EXISTING SIGN TO BE MOVED

9-1

W3-3
36" X 36"

9-4

R7-1D
18" X 24"

9-2

W3-3
36" X 36"

MOVE SIGN TO HERE

9-6

W5-52L
12" X 36"

EXISTING SIGN TO BE MOVED

9-6

W5-52L
12" X 36"

NOTE:

FOR SIDEWALK CLOSURE USE STANDARD DETAIL DRAWING "TRAFFIC CONTROL, SIDEWALK CLOSURE"

MATCH LINE STA. 188+00

189+00

190+00

191+00

192+00

193+00

194

MATCH LINE STA. 194+00

10'

10'

11'

25'(TYP)

STH 181 / 76TH ST

16

17

MOVE SIGN TO HERE

9-1

W3-3
36" X 36"

9-5

W5-52L
12" X 36"

LEGEND

- WORK ZONE
- TEMPORARY PAVEMENT
- TEMPORARY CROSSWALK ACCESS
- TEMPORARY BUS STOP PAD
- TEMPORARY PAVEMENT TO BE USED IN FUTURE STAGES
- SIGNAL CONTROLLED INTERSECTION
- TRAFFIC FLOW ARROW
- DRUM WITH/WITHOUT LIGHT, TYPE C
- FLEXIBLE TUBULAR MARKERS
- SIGN MOUNTED ON POST
- SIGN MOUNTED ON TEMPORARY SUPPORT
- TYPE III BARRICADE WITH/WITHOUT SIGN
- REMOVING PAVEMENT MARKINGS

PROJECT NO: 2140-08-73	HWY: STH 181-N. 76TH ST.	COUNTY: MILWAUKEE	CONSTRUCTION STAGING - STAGE 3	SHEET 486	E

2

MOVE SIGN TO HERE

10-5

W3-3
36" X 36"

EXISTING SIGN TO BE MOVED

10-5

W3-3
36" X 36"

10-3

R7-1D
18" X 24"

10-7

R7-1D
18" X 24"

PAVEMENT MARKING LEGEND

(16) TEMPORARY PAVEMENT MARKING REMOVABLE TAPE 4-INCH (DOUBLE YELLOW)

(17) PAVEMENT MARKING WET REFLECTIVE TAPE 4-INCH (DASHED WHITE)

NOTE:

FOR SIDEWALK CLOSURE USE STANDARD DETAIL DRAWING "TRAFFIC CONTROL, SIDEWALK CLOSURE"

MATCH LINE STA. 194+00

194+00

195+00

196+00

197+00

198+00

199+00

200

MATCH LINE STA. 200+00

10'

10'

11'

25' (TYP)

STH 181 / 76TH ST

16

17

10-4

W3-3
36" X 36"

10-9

SPEED LIMIT
40
R2-1
24" X 30"

LEGEND

- WORK ZONE
- TEMPORARY PAVEMENT
- TEMPORARY CROSSWALK ACCESS
- TEMPORARY BUS STOP PAD
- TEMPORARY PAVEMENT TO BE USED IN FUTURE STAGES
- SIGNAL CONTROLLED INTERSECTION
- TRAFFIC FLOW ARROW
- DRUM WITH/WITHOUT LIGHT, TYPE C
- FLEXIBLE TUBULAR MARKERS
- SIGN MOUNTED ON POST
- SIGN MOUNTED ON TEMPORARY SUPPORT
- TYPE III BARRICADE WITH/WITHOUT SIGN
- REMOVING PAVEMENT MARKINGS

PROJECT NO: 2140-08-73	HWY: STH 181-N. 76TH ST.	COUNTY: MILWAUKEE	CONSTRUCTION STAGING - STAGE 3	SHEET 487	E

PAVEMENT MARKING LEGEND

- (2) TEMPORARY PAVEMENT MARKING REMOVABLE TAPE 4-INCH (DASHED WHITE)
- (8) TEMPORARY PAVEMENT MARKING ARROWS REMOVABLE TAPE (TYP)
- (10) TEMPORARY PAVEMENT MARKING WORDS REMOVABLE TAPE (TYP)
- (12) TEMPORARY PAVEMENT MARKING REMOVABLE TAPE 8-INCH (CHANNELIZING)
- (14) TEMPORARY PAVEMENT MARKING STOP LINE REMOVABLE TAPE 18-INCH
- (16) TEMPORARY PAVEMENT MARKING REMOVABLE TAPE 4-INCH (DOUBLE YELLOW)
- (17) PAVEMENT MARKING WET REFLECTIVE TAPE 4-INCH (DASHED WHITE)

NOTE:

FOR SIDEWALK CLOSURE USE STANDARD DETAIL DRAWING "TRAFFIC CONTROL, SIDEWALK CLOSURE"

EXISTING SIGN TO BE MOVED

SPEED LIMIT 40 R2-1 24" X 30" — 11-8

W06-3

STA. 202+70 LT MAINTAIN TEMPORARY ACCESS, SEE DETAIL

SPEED LIMIT 40 R2-1 24" X 30" — 11-9

NO PARKING R7-1 18" X 24" — 11-10

ENGINEERS WITHOUT BORDERS-MSOE — 11-11

W11-2 30" X 30" — 11-12

W01-4L

35 M.P.H. W013-1 24" X 24"

STA. 205+18 LT MAINTAIN TEMPORARY ACCESS, SEE DETAIL

11-1 — NO PARKING R7-1D 18" X 24"

MATCH LINE STA. 200+00

200+00 201+00 202+00 203+00 204+00 205+00 206+00

50'(TYP) 25'(TYP) 25'(TYP) 25'(TYP)

10' 10' 11'

STH 181 / 76TH ST

MATCH LINE STA. 206+00

DEAN RD

16 2 10 12 8 14 17

11-2 — W3-3 36" X 36"

11-5 — W11-2 30" X 30"

110' 100'

** = AREA TO BE MAINTAINED AT ALL TIMES FOR TURNING MOVEMENTS EXCEPT FOR SPECIFIC WORK OPERATIONS IN THIS AREA

MOVE SIGN TO HERE

SPEED LIMIT 40 R2-1 24" X 30" — 11-8

LEGEND

- WORK ZONE
- TEMPORARY PAVEMENT
- TEMPORARY CROSSWALK ACCESS
- TEMPORARY BUS STOP PAD
- TEMPORARY PAVEMENT TO BE USED IN FUTURE STAGES
- SIGNAL CONTROLLED INTERSECTION
- TRAFFIC FLOW ARROW
- DRUM WITH/WITHOUT LIGHT, TYPE C
- FLEXIBLE TUBULAR MARKERS
- SIGN MOUNTED ON POST
- SIGN MOUNTED ON TEMPORARY SUPPORT
- TYPE III BARRICADE WITH/WITHOUT SIGN
- REMOVING PAVEMENT MARKINGS

PROJECT NO: 2140-08-73	HWY: STH 181-N. 76TH ST.	COUNTY: MILWAUKEE	CONSTRUCTION STAGING - STAGE 3	SHEET 488	E

2

N

PAVEMENT MARKING LEGEND

- (8) TEMPORARY PAVEMENT MARKING ARROWS REMOVABLE TAPE (TYP)
- (10) TEMPORARY PAVEMENT MARKING WORDS REMOVABLE TAPE (TYP)
- (12) TEMPORARY PAVEMENT MARKING REMOVABLE TAPE 8-INCH (CHANNELIZING)
- (14) TEMPORARY PAVEMENT MARKING STOP LINE REMOVABLE TAPE 18-INCH
- (16) TEMPORARY PAVEMENT MARKING REMOVABLE TAPE 4-INCH (DOUBLE YELLOW)
- (17) PAVEMENT MARKING WET REFLECTIVE TAPE 4-INCH (DASHED WHITE)

DEAN RD

MATCH LINE STA. 206+00

MATCH LINE STA. 212+00

12-8 W11-2 30" X 30" EXISTING SIGN TO BE MOVED

12-4 W11-2 30" X 30"

12-2 TRANSIT

W01-4L 35 M.P.H. W013-1 24" X 24"

12-12 W11-2 30" X 30"

12-15 SOUTH 181 M 3-3 24" X 12" M1-6 24" X 24" J1-1 24" X 39"

12-16 NO R7-1D 18" X 24"

12-13 SPEED LIMIT R2-1 24" X 30"

200+00 208+00 209+00 210+00 211+00 212+00

25' (TYP) 25' (TYP)

11' 11' 12'

STH 181 / 76TH ST

100' 110'

12-10 JCT 100 M 2-1 M1-6 J1-1 24" X 39" MOVE SIGNS TO HERE

12-11 Brown Deer Rd 8800 N M1-94A

12-9 AT&T WIRELESS OPERATIONS AND ENGINEERING

12-10 JCT 100 M 2-1 M1-6 J1-1 24" X 39" EXISTING SIGNS TO BE MOVED

12-11 Brown Deer Rd 8800 N M1-94A

W06-3

12-8 W11-2 30" X 30" MOVE SIGN TO HERE

NOTE:

FOR SIDEWALK CLOSURE USE STANDARD DETAIL DRAWING "TRAFFIC CONTROL, SIDEWALK CLOSURE"

** = AREA TO BE MAINTAINED AT ALL TIMES FOR TURNING MOVEMENTS EXCEPT FOR SPECIFIC WORK OPERATIONS IN THIS AREA

LEGEND

- WORK ZONE
- TEMPORARY PAVEMENT
- TEMPORARY CROSSWALK ACCESS
- TEMPORARY BUS STOP PAD
- TEMPORARY PAVEMENT TO BE USED IN FUTURE STAGES
- SIGNAL CONTROLLED INTERSECTION
- TRAFFIC FLOW ARROW
- DRUM WITH/WITHOUT LIGHT, TYPE C
- FLEXIBLE TUBULAR MARKERS
- SIGN MOUNTED ON POST
- SIGN MOUNTED ON TEMPORARY SUPPORT
- TYPE III BARRICADE WITH/WITHOUT SIGN
- REMOVING PAVEMENT MARKINGS

PROJECT NO: 2140-08-73	HWY: STH 181-N. 76TH ST.	COUNTY: MILWAUKEE	CONSTRUCTION STAGING - STAGE 3	SHEET 489 E

2

PAVEMENT MARKING LEGEND

(2) TEMPORARY PAVEMENT MARKING REMOVABLE TAPE 4-INCH (DASHED WHITE)

(4) TEMPORARY PAVEMENT MARKING REMOVABLE TAPE 4-INCH (WHITE)

(16) TEMPORARY PAVEMENT MARKING REMOVABLE TAPE 4-INCH (DOUBLE YELLOW)

(19) PAVEMENT MARKING EPOXY 4-INCH (WHITE)

NOTE:

FOR SIDEWALK CLOSURE USE STANDARD DETAIL DRAWING "TRAFFIC CONTROL, SIDEWALK CLOSURE"

MOVE SIGN TO HERE

EXISTING SIGN TO BE MOVED

MATCH LINE STA. 212+00

MATCH LINE STA 218+00

STH 181 / 76TH ST

12'

11'

11'

25' (TYP)

110'

76TH PLACE

W3-3 36" X 36"

W06-3

R7-1D 18" X 24"

M1-6 24" X 24"

M 5-2R 21" X 21"

J13-1 24" X 45"

R3-7R 30" X 30"

R2-1 24" X 30"

R1-1 30" X 30"

W20-1

G20-2A 48" X 24"

E5-1 60" X 48"

MEQUON
BROWN DEER
MENOMONEE FALLS

ROAD WORK AHEAD

END ROAD WORK

EXIT

LEGEND

- WORK ZONE
- TEMPORARY PAVEMENT
- TEMPORARY CROSSWALK ACCESS
- TEMPORARY BUS STOP PAD
- TEMPORARY PAVEMENT TO BE USED IN FUTURE STAGES
- SIGNAL CONTROLLED INTERSECTION
- TRAFFIC FLOW ARROW
- DRUM WITH/WITHOUT LIGHT, TYPE C
- FLEXIBLE TUBULAR MARKERS
- SIGN MOUNTED ON POST
- SIGN MOUNTED ON TEMPORARY SUPPORT
- TYPE III BARRICADE WITH/WITHOUT SIGN
- REMOVING PAVEMENT MARKINGS

PROJECT NO: 2140-08-73	HWY: STH 181-N. 76TH ST.	COUNTY: MILWAUKEE	CONSTRUCTION STAGING - STAGE 3 PHASE I	SHEET 490	E

2

PAVEMENT MARKING LEGEND

④ TEMPORARY PAVEMENT MARKING REMOVABLE TAPE 4-INCH (WHITE)

⑯ TEMPORARY PAVEMENT MARKING REMOVABLE TAPE 4-INCH (DOUBLE YELLOW)

⑲ PAVEMENT MARKING EPOXY 4-INCH (WHITE)

W06-3

R1-2
36" X 31"

MATCH LINE STA. 212+00

213+00

214+00

215+00

216+00

217+00

218

MATCH LINE STA 218+00

STH 181 / 76TH ST

12'

11'

11'

25' (TYP)

110'

EXIT
E5-1
60" X 48"

W06-3

ROAD WORK AHEAD
W20-1

76TH PLACE

END ROAD WORK
G20-2A
48" X 24"

NOTE:

FOR SIDEWALK CLOSURE USE STANDARD DETAIL DRAWING "TRAFFIC CONTROL, SIDEWALK CLOSURE"

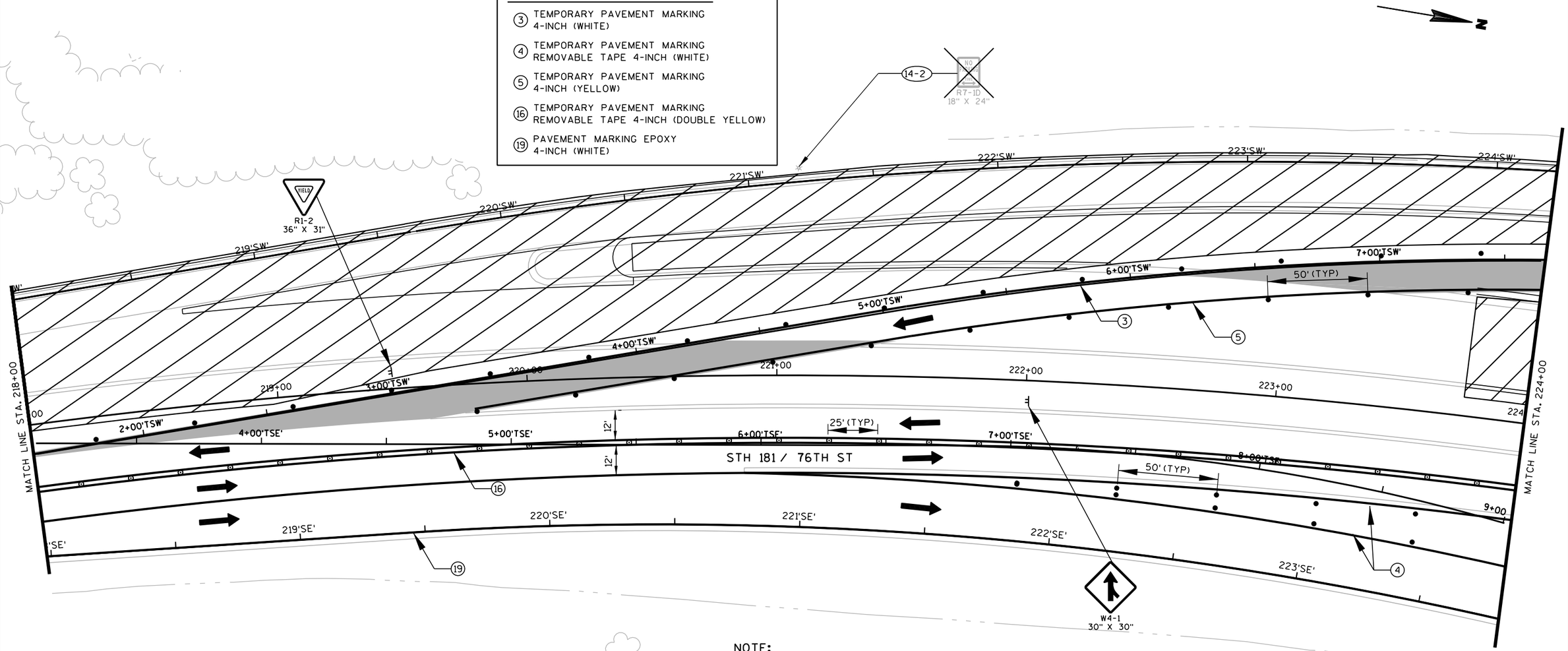
LEGEND

- WORK ZONE
- TEMPORARY PAVEMENT
- TEMPORARY CROSSWALK ACCESS
- TEMPORARY BUS STOP PAD
- TEMPORARY PAVEMENT TO BE USED IN FUTURE STAGES
- SIGNAL CONTROLLED INTERSECTION
- TRAFFIC FLOW ARROW
- DRUM WITH/WITHOUT LIGHT, TYPE C
- FLEXIBLE TUBULAR MARKERS
- SIGN MOUNTED ON POST
- SIGN MOUNTED ON TEMPORARY SUPPORT
- TYPE III BARRICADE WITH/WITHOUT SIGN
- REMOVING PAVEMENT MARKINGS

PROJECT NO: 2140-08-73	HWY: STH 181-N. 76TH ST.	COUNTY: MILWAUKEE	CONSTRUCTION STAGING - STAGE 3 PHASE II	SHEET 491	E

PAVEMENT MARKING LEGEND

- (3) TEMPORARY PAVEMENT MARKING 4-INCH (WHITE)
- (4) TEMPORARY PAVEMENT MARKING REMOVABLE TAPE 4-INCH (WHITE)
- (5) TEMPORARY PAVEMENT MARKING 4-INCH (YELLOW)
- (16) TEMPORARY PAVEMENT MARKING REMOVABLE TAPE 4-INCH (DOUBLE YELLOW)
- (19) PAVEMENT MARKING EPOXY 4-INCH (WHITE)



NOTE:

FOR SIDEWALK CLOSURE USE STANDARD DETAIL DRAWING "TRAFFIC CONTROL, SIDEWALK CLOSURE"

LEGEND

- WORK ZONE
- TEMPORARY PAVEMENT
- TEMPORARY CROSSWALK ACCESS
- TEMPORARY BUS STOP PAD
- TEMPORARY PAVEMENT TO BE USED IN FUTURE STAGES
- SIGNAL CONTROLLED INTERSECTION
- TRAFFIC FLOW ARROW
- DRUM WITH/WITHOUT LIGHT, TYPE C
- FLEXIBLE TUBULAR MARKERS
- SIGN MOUNTED ON POST
- SIGN MOUNTED ON TEMPORARY SUPPORT
- TYPE III BARRICADE WITH/WITHOUT SIGN
- REMOVING PAVEMENT MARKINGS

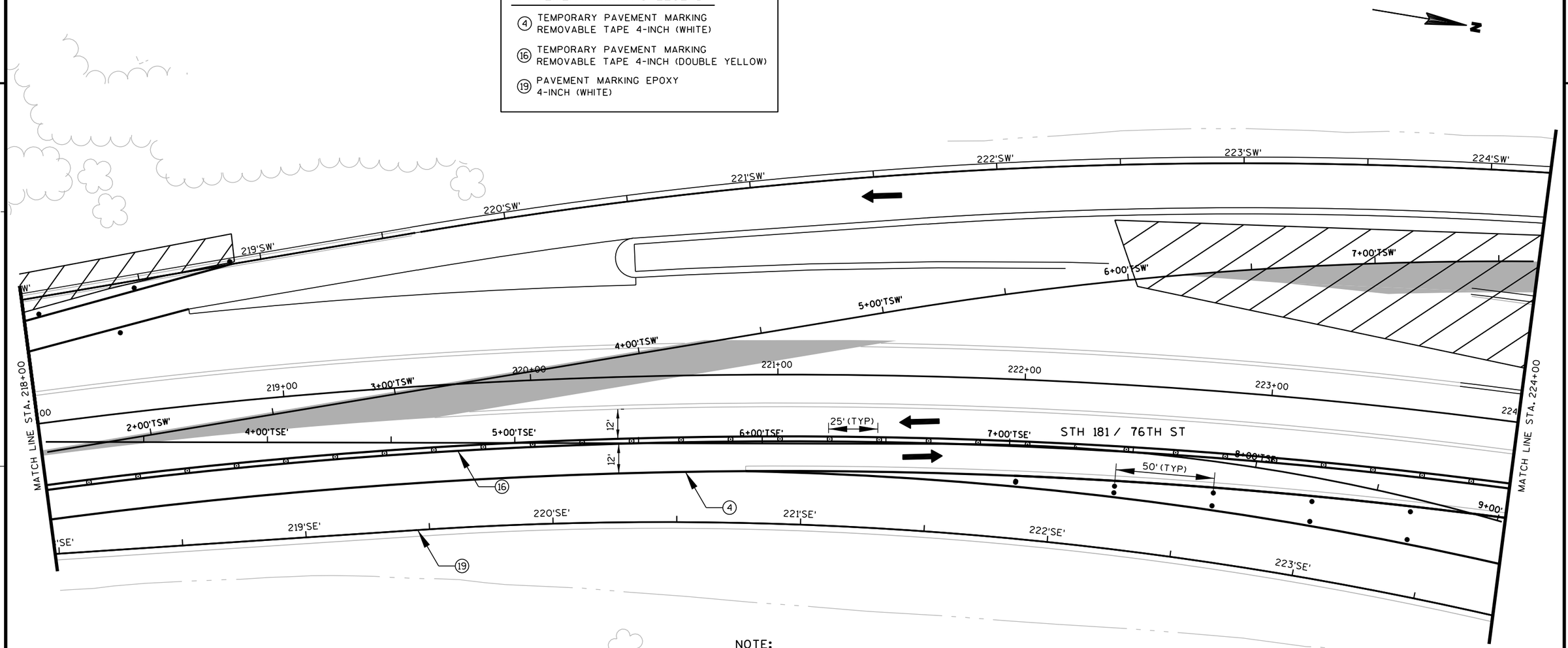
PROJECT NO: 2140-08-73	HWY: STH 181-N. 76TH ST.	COUNTY: MILWAUKEE	CONSTRUCTION STAGING - STAGE 3 PHASE I	SHEET 492	E

PAVEMENT MARKING LEGEND

(4) TEMPORARY PAVEMENT MARKING REMOVABLE TAPE 4-INCH (WHITE)

(16) TEMPORARY PAVEMENT MARKING REMOVABLE TAPE 4-INCH (DOUBLE YELLOW)

(19) PAVEMENT MARKING EPOXY 4-INCH (WHITE)



NOTE:

FOR SIDEWALK CLOSURE USE STANDARD DETAIL DRAWING "TRAFFIC CONTROL, SIDEWALK CLOSURE"

LEGEND

- WORK ZONE
- TEMPORARY PAVEMENT
- TEMPORARY CROSSWALK ACCESS
- TEMPORARY BUS STOP PAD
- TEMPORARY PAVEMENT TO BE USED IN FUTURE STAGES
- SIGNAL CONTROLLED INTERSECTION
- TRAFFIC FLOW ARROW
- DRUM WITH/WITHOUT LIGHT, TYPE C
- FLEXIBLE TUBULAR MARKERS
- SIGN MOUNTED ON POST
- SIGN MOUNTED ON TEMPORARY SUPPORT
- TYPE III BARRICADE WITH/WITHOUT SIGN
- REMOVING PAVEMENT MARKINGS

PROJECT NO: 2140-08-73	HWY: STH 181-N. 76TH ST.	COUNTY: MILWAUKEE	CONSTRUCTION STAGING - STAGE 3 PHASE II	SHEET 493	E

MOVE SIGN TO HERE

15-1

W4-1
30" X 30"

MOVE SIGN TO HERE

EXISTING SIGN TO BE MOVED

15-1

W4-1
30" X 30"

15-2

NO PKING
R7-1D
18" X 24"

26-1

M1-6
24" X 24"

M 6-2
" X 21"

J13-1
24" X 45"

NOTE:

FOR SIDEWALK CLOSURE USE STANDARD DETAIL DRAWING "TRAFFIC CONTROL, SIDEWALK CLOSURE"

N

225'SW'

226'SW'

227'SW'

230'SW'

15-6

NO PKING
R7-1D
18" X 24"

3

5

MATCH LINE STA. 224+00

225+00

226+00

227+00

228+00

229+00

230

MATCH LINE STA. 230+00

STH 181 / 76TH ST

12'

12'

25' (TYP)

50' (TYP)

16

4

15-4

SPEED LIMIT 45
R2-1
24" X 30"

26-2

W3-3
36" X 36"

26-4

MENOMONEE FALLS
BROWN DEER

26-5

21

ONLY
R3-8A
30" X 36"

26-6

WRONG WAY
R5-1A
36" X 24"

224'SE'

225'SE'

226'SE'

227'SE'

228'SE'

229'SE'

19

26-3

WEST EAST
J3-2
48" X 57"

PAVEMENT MARKING LEGEND

- (3) TEMPORARY PAVEMENT MARKING 4-INCH (WHITE)
- (4) TEMPORARY PAVEMENT MARKING REMOVABLE TAPE 4-INCH (WHITE)
- (5) TEMPORARY PAVEMENT MARKING 4-INCH (YELLOW)
- (16) TEMPORARY PAVEMENT MARKING REMOVABLE TAPE 4-INCH (DOUBLE YELLOW)
- (19) PAVEMENT MARKING EPOXY 4-INCH (WHITE)
- (21) PAVEMENT MARKING EPOXY 4-INCH (YELLOW)

LEGEND

- WORK ZONE
- TEMPORARY PAVEMENT
- TEMPORARY CROSSWALK ACCESS
- TEMPORARY BUS STOP PAD
- TEMPORARY PAVEMENT TO BE USED IN FUTURE STAGES
- SIGNAL CONTROLLED INTERSECTION
- TRAFFIC FLOW ARROW
- DRUM WITH/WITHOUT LIGHT, TYPE C
- FLEXIBLE TUBULAR MARKERS
- SIGN MOUNTED ON POST
- SIGN MOUNTED ON TEMPORARY SUPPORT
- TYPE III BARRICADE WITH/WITHOUT SIGN
- REMOVING PAVEMENT MARKINGS

PROJECT NO: 2140-08-73	HWY: STH 181-N. 76TH ST.	COUNTY: MILWAUKEE	CONSTRUCTION STAGING - STAGE 3	SHEET 494 E

2

2

1+00'TSW'

15+00'TSW'

231+00'SW'

232+00'SW'

231+00'SW'

1+00'TNW'

234+00'NW'

2+00'TNW'

235+00'NW'

3+00'TNW'

236'NW'

236+00'NW'

121+00'BD'

BROWN DEER RD & STH 100

122+00'BD'

123+00'BD'

124+00'BD'

PAVEMENT MARKING LEGEND

(4) TEMPORARY PAVEMENT MARKING REMOVABLE TAPE 4-INCH (WHITE)

(16) TEMPORARY PAVEMENT MARKING REMOVABLE TAPE 4-INCH (DOUBLE YELLOW)

16-1 — NO TURN ON RED R7-1D 18" X 24"

16-5 — NO TURN ON RED R7-1D 18" X 24"

16-3 — W5-52R 12" X 36"

MATCH LINE STA. 230+00

230+00

231+00

232+00

233+00

234+00

235+00

236

MATCH LINE STA. 236+00

STH 181 / 76TH ST

50' (TYP)

25' (TYP)

12'

12'

16

4

232+00'SE'

230'SE'

234+00'NE'

235+00'NE'

N

LEGEND

- WORK ZONE
- TEMPORARY PAVEMENT
- TEMPORARY CROSSWALK ACCESS
- TEMPORARY BUS STOP PAD
- TEMPORARY PAVEMENT TO BE USED IN FUTURE STAGES
- SIGNAL CONTROLLED INTERSECTION
- TRAFFIC FLOW ARROW
- DRUM WITH/WITHOUT LIGHT, TYPE C
- FLEXIBLE TUBULAR MARKERS
- SIGN MOUNTED ON POST
- SIGN MOUNTED ON TEMPORARY SUPPORT
- TYPE III BARRICADE WITH/WITHOUT SIGN
- REMOVING PAVEMENT MARKINGS

NOTE:

FOR SIDEWALK CLOSURE USE STANDARD DETAIL DRAWING "TRAFFIC CONTROL, SIDEWALK CLOSURE"

PROJECT NO: 2140-08-73	HWY: STH 181-N. 76TH ST.	COUNTY: MILWAUKEE	CONSTRUCTION STAGING - STAGE 3	SHEET 495	E

2

N

MOVE SIGN TO HERE

EAST | WEST
100 | 100
32-1
J3-2
48" X 57"

EXISTING SIGN TO BE MOVED

EAST | WEST
100 | 100
32-1
J3-2
48" X 57"

PAVEMENT MARKING LEGEND

(2) TEMPORARY PAVEMENT MARKING REMOVABLE TAPE 4-INCH (DASHED WHITE)

(3) TEMPORARY PAVEMENT MARKING 4-INCH (WHITE)

(4) TEMPORARY PAVEMENT MARKING REMOVABLE TAPE 4-INCH (WHITE)

(5) TEMPORARY PAVEMENT MARKING 4-INCH (YELLOW)

(16) TEMPORARY PAVEMENT MARKING REMOVABLE TAPE 4-INCH (DOUBLE YELLOW)

EXISTING SIGN TO BE MOVED

32-2
W3-3
36" X 36"

EXIT
E5-1
60" X 48"

29-2
R1-2
36" X 31"

EXISTING SIGN TO BE MOVED

SPEED LIMIT 45
17-2
R2-1
24" X 30"

NO U-TURN
17-4
R7-1D
18" X 24"

237'NW'
238'NW'
239'NW'
240'NW'
241'NW'
242'NW'

MATCH LINE STA. 236+00

237+00
238+00
239+00
240+00
241+00
242

8+00'TNE'

STH 181 / 76TH ST

25' (TYP)

12'
12'

5
3
16
2
4

SPEED LIMIT 45
17-2
R2-1
24" X 30"
MOVE SIGN TO HERE

MOVE SIGN TO HERE
32-2
W3-3
36" X 36"

5+00'TNE'
17-5
W4-1
30" X 30"

6+00'TNE'

17-8
R7-1D
18" X 24"

17-9
W3-3
36" X 36"
MOVE SIGN TO HERE

17-10
W12-1D
24" X 24"

17-6
W3-3
36" X 36"

MATCH LINE STA. 242+00

236+00'NE'
237+00'NE'
238'NE'
239'NE'
237'NE'

LEGEND

- WORK ZONE
- TEMPORARY PAVEMENT
- TEMPORARY CROSSWALK ACCESS
- TEMPORARY BUS STOP PAD
- TEMPORARY PAVEMENT TO BE USED IN FUTURE STAGES
- SIGNAL CONTROLLED INTERSECTION
- TRAFFIC FLOW ARROW
- DRUM WITH/WITHOUT LIGHT, TYPE C
- FLEXIBLE TUBULAR MARKERS
- SIGN MOUNTED ON POST
- SIGN MOUNTED ON TEMPORARY SUPPORT
- TYPE III BARRICADE WITH/WITHOUT SIGN
- REMOVING PAVEMENT MARKINGS

NOTE:

FOR SIDEWALK CLOSURE USE STANDARD DETAIL DRAWING "TRAFFIC CONTROL, SIDEWALK CLOSURE"

PROJECT NO: 2140-08-73	HWY: STH 181-N. 76TH ST.	COUNTY: MILWAUKEE	CONSTRUCTION STAGING - STAGE 3 PHASE 1	SHEET 496	E

2

PAVEMENT MARKING LEGEND

(4) TEMPORARY PAVEMENT MARKING REMOVABLE TAPE 4-INCH (WHITE)

(16) TEMPORARY PAVEMENT MARKING REMOVABLE TAPE 4-INCH (DOUBLE YELLOW)

NOTE:

FOR SIDEWALK CLOSURE USE STANDARD DETAIL DRAWING "TRAFFIC CONTROL, SIDEWALK CLOSURE"

N

237'NW'

238'NW'

239'NW'

240'NW'

241'NW'

242'NW'

5+00'TNW'

6+00'TNW'

7+00'TNW'

8+00'TNW'

9+00'TNW'

MATCH LINE STA. 236+00

237+00

238+00

239+00

240+00

241+00

242

MATCH LINE STA. 242+00

25' (TYP)

STH 181 / 76TH ST

12'

12'

50' (TYP)

16

4

236+00'NE

237'NE'

238'NE'

239'NE'

LEGEND

- WORK ZONE
- TEMPORARY PAVEMENT
- TEMPORARY CROSSWALK ACCESS
- TEMPORARY BUS STOP PAD
- TEMPORARY PAVEMENT TO BE USED IN FUTURE STAGES
- SIGNAL CONTROLLED INTERSECTION
- TRAFFIC FLOW ARROW
- DRUM WITH/WITHOUT LIGHT, TYPE C
- FLEXIBLE TUBULAR MARKERS
- SIGN MOUNTED ON POST
- SIGN MOUNTED ON TEMPORARY SUPPORT
- TYPE III BARRICADE WITH/WITHOUT SIGN
- REMOVING PAVEMENT MARKINGS

PROJECT NO: 2140-08-73	HWY: STH 181-N. 76TH ST.	COUNTY: MILWAUKEE	CONSTRUCTION STAGING - STAGE 3 PHASE II	SHEET 497	E

2

PAVEMENT MARKING LEGEND

(3) TEMPORARY PAVEMENT MARKING 4-INCH (WHITE)

(4) TEMPORARY PAVEMENT MARKING REMOVABLE TAPE 4-INCH (WHITE)

(5) TEMPORARY PAVEMENT MARKING 4-INCH (YELLOW)

(16) TEMPORARY PAVEMENT MARKING REMOVABLE TAPE 4-INCH (DOUBLE YELLOW)

(19) PAVEMENT MARKING EPOXY 4-INCH (WHITE)

NOTE:

FOR SIDEWALK CLOSURE USE STANDARD DETAIL DRAWING "TRAFFIC CONTROL, SIDEWALK CLOSURE"

EXISTING SIGN TO BE MOVED

18-5 — M1-6 24" X 24" / M 5-2R 21" X 21" / J13-1 24" X 45"

18-6 — NO R7-1D 18" X 24"

18-2 — NO R7-1D 18" X 24"

MATCH LINE STA. 242+00

MATCH LINE STA. 248+00

243'NW' 244'NW' 245'NW' 246'NW' 247'NW'

243+00 244+00 245+00 246+00 247+00 248

STH 181 / 76TH ST

12' 11'

4 16 19

243'NE'

18-5 — M1-6 24" X 24" / M 5-2R 21" X 21" / J13-1 24" X 45"

MOVE SIGN TO HERE

LEGEND

- WORK ZONE
- TEMPORARY PAVEMENT
- TEMPORARY CROSSWALK ACCESS
- TEMPORARY BUS STOP PAD
- TEMPORARY PAVEMENT TO BE USED IN FUTURE STAGES
- SIGNAL CONTROLLED INTERSECTION
- TRAFFIC FLOW ARROW
- DRUM WITH/WITHOUT LIGHT, TYPE C
- FLEXIBLE TUBULAR MARKERS
- SIGN MOUNTED ON POST
- SIGN MOUNTED ON TEMPORARY SUPPORT
- TYPE III BARRICADE WITH/WITHOUT SIGN
- REMOVING PAVEMENT MARKINGS

PROJECT NO: 2140-08-73	HWY: STH 181-N. 76TH ST.	COUNTY: MILWAUKEE	CONSTRUCTION STAGING - STAGE 3	SHEET 498	E

2

EXISTING SIGN TO BE MOVED

WAUWATOSA
BROWN DEER
MENOMONEE FALLS

19-1

R1-1P
30" X 30"
19-3

NO U-TURN
R10-11B
24" X 24"
19-4

R3-8S
30" X 54"
19-10

RIGHT LANE MUST EXIT
R3-7R
30" X 30"
19-7

NO TURN ON RED
R7-1D
18" X 24"
19-8

W06-3

MATCH LINE STA. 248+00

248+00 249+00 250+00

N.00+11

PRIVATE ROAD

FOR ROAD CLOSURE
USE STANDARD DETAIL DRAWING
"BARRICADES AND SIGNS FOR
SIDE ROAD CLOUSERS (DETAIL 1)"

19-14

R3-8R
30" X 54"
19-18

TRANSIT

NORTH
181
J1-1
24" X 39"
19-15

SPEED LIMIT
45
R2-1
24" X 30"
19-21

M 2-1
21" X 15"
M1-6
24" X 24"
JCT
100
J1-1
24" X 39"
19-22

EXISTING SIGNS TO BE MOVED

Brown Deer Rd
8800 N
M1-94A
19-23

MOVE SIGNS TO HERE

Brown Deer Rd
8800 N
M1-94A
19-23

19-24

NO U-TURN
R7-1D
18" X 24"

N

251+00 252+00 253+00 254+00

MATCH LINE STA. 254+00

4

25' (TYP)

25' (TYP)

11'

11'

STH 181 / 76TH ST

16

LANE CLOSED
R11-2(MOD)
48" X 30"

W06-3

MOVE SIGN TO HERE

19-1

WAUWATOSA
BROWN DEER
MENOMONEE FALLS

PAVEMENT MARKING LEGEND

(4) TEMPORARY PAVEMENT MARKING REMOVABLE TAPE 4-INCH (WHITE)

(16) TEMPORARY PAVEMENT MARKING REMOVABLE TAPE 4-INCH (DOUBLE YELLOW)

NOTE:

FOR SIDEWALK CLOSURE USE STANDARD DETAIL DRAWING "TRAFFIC CONTROL, SIDEWALK CLOSURE"

LEGEND

- WORK ZONE
- TEMPORARY PAVEMENT
- TEMPORARY CROSSWALK ACCESS
- TEMPORARY BUS STOP PAD
- TEMPORARY PAVEMENT TO BE USED IN FUTURE STAGES
- SIGNAL CONTROLLED INTERSECTION
- TRAFFIC FLOW ARROW
- DRUM WITH/WITHOUT LIGHT, TYPE C
- FLEXIBLE TUBULAR MARKERS
- SIGN MOUNTED ON POST
- SIGN MOUNTED ON TEMPORARY SUPPORT
- TYPE III BARRICADE WITH/WITHOUT SIGN
- REMOVING PAVEMENT MARKINGS

PROJECT NO: 2140-08-73	HWY: STH 181-N. 76TH ST.	COUNTY: MILWAUKEE	CONSTRUCTION STAGING - STAGE 3	SHEET 499	E

NOTE:

FOR SIDEWALK CLOSURE USE STANDARD DETAIL DRAWING "TRAFFIC CONTROL, SIDEWALK CLOSURE"

NO PARKING R7-1D 18" X 24"

20-1

ROAD WORK AHEAD W20-1

250'

W01-4L

W06-3

35 M.P.H. W013-1 24" X 24"

16

14

LANE CLOSED R11-2(MOD) 48" X 30"

PRIVATE ROAD

END ROAD WORK G20-2A 48" X 24"

20-11

R4-7 24" X 30"

N

11+00 N.L.

** = AREA TO BE MAINTAINED AT ALL TIMES FOR TURNING MOVEMENTS EXCEPT FOR SPECIFIC WORK OPERATIONS IN THIS AREA

MATCH LINE STA. 254+00

255+00

256+00

257+00

258+00

259+00

260

MATCH LINE STA. 260+00

25' (TYP)

25' (TYP)

STH 181 / 76TH ST

4

2

10

12

8

14

16

**

110'

100'

R4-7 24" X 30"

LANE CLOSED R11-2(MOD) 48" X 30"

W06-3

12'

10'

11'

50' (TYP)

6

NORTHRIDGE LAKES BLVD

END ROAD WORK G20-2A 48" X 24"

ROAD WORK AHEAD W20-1

250'

11+00 N.L.

12+0

PAVEMENT MARKING LEGEND

(2) TEMPORARY PAVEMENT MARKING REMOVABLE TAPE 4-INCH (DASHED WHITE)

(3) TEMPORARY PAVEMENT MARKING 4-INCH (WHITE)

(6) TEMPORARY PAVEMENT MARKING REMOVABLE TAPE 4-INCH (YELLOW)

(8) TEMPORARY PAVEMENT MARKING ARROWS REMOVABLE TAPE (TYP)

(10) TEMPORARY PAVEMENT MARKING WORDS REMOVABLE TAPE (TYP)

(12) TEMPORARY PAVEMENT MARKING REMOVABLE TAPE 8-INCH (CHANNELIZING)

(14) TEMPORARY PAVEMENT MARKING STOP LINE REMOVABLE TAPE 18-INCH

(16) TEMPORARY PAVEMENT MARKING REMOVABLE TAPE 4-INCH (DOUBLE YELLOW)

LEGEND

- WORK ZONE
- TEMPORARY PAVEMENT
- TEMPORARY CROSSWALK ACCESS
- TEMPORARY BUS STOP PAD
- TEMPORARY PAVEMENT TO BE USED IN FUTURE STAGES
- SIGNAL CONTROLLED INTERSECTION
- TRAFFIC FLOW ARROW
- DRUM WITH/WITHOUT LIGHT, TYPE C
- FLEXIBLE TUBULAR MARKERS
- SIGN MOUNTED ON POST
- SIGN MOUNTED ON TEMPORARY SUPPORT
- TYPE III BARRICADE WITH/WITHOUT SIGN
- REMOVING PAVEMENT MARKINGS

PROJECT NO: 2140-08-73	HWY: STH 181-N. 76TH ST.	COUNTY: MILWAUKEE	CONSTRUCTION STAGING - STAGE 3 PHASE 1	SHEET E

FILE NAME : s:\@sai\051--100\089\099\micros\design\0873\026221_s3.dgn PLOT DATE : 7/30/2007 PLOT BY : $$...plotuser...$$ PLOT NAME : PLOT SCALE : $$.....plotscale.....$$ WISDOT/CADDS SHEET 42

* = PLACE AT INTERSECTION OF NORTHRIDGE LAKES AND NORTHRIDGE MALL RD

@ = PLACE AT INTERSECTION OF NORTHRIDGE LAKES AND 75TH ST

NOTE:

FOR SIDEWALK CLOSURE USE STANDARD DETAIL DRAWING "TRAFFIC CONTROL, SIDEWALK CLOSURE"

PAVEMENT MARKING LEGEND

- (2) TEMPORARY PAVEMENT MARKING REMOVABLE TAPE 4-INCH (DASHED WHITE)
- (3) TEMPORARY PAVEMENT MARKING 4-INCH (WHITE)
- (6) TEMPORARY PAVEMENT MARKING REMOVABLE TAPE 4-INCH (YELLOW)
- (8) TEMPORARY PAVEMENT MARKING ARROWS REMOVABLE TAPE (TYP)
- (10) TEMPORARY PAVEMENT MARKING WORDS REMOVABLE TAPE (TYP)
- (12) TEMPORARY PAVEMENT MARKING REMOVABLE TAPE 8-INCH (CHANNELIZING)
- (14) TEMPORARY PAVEMENT MARKING STOP LINE REMOVABLE TAPE 18-INCH
- (16) TEMPORARY PAVEMENT MARKING REMOVABLE TAPE 4-INCH (DOUBLE YELLOW)

N

ROAD WORK AHEAD W20-1

END ROAD WORK G20-2A 48" X 24"

W1-4B

35 M.P.H. W013-1 24" X 24"

PRIVATE ROAD

11+00 N.L.

11' 11'

LANE CLOSED R11-2(MOD) 48" X 30"

MATCH LINE STA. 254+00

255+00 256+00 257+00 258+00 259+00 260

25' (TYP)

STH 181 / 76TH ST

12+00 N.L.T.

10+00 N.L.T.

** R4-7 24" X 30"

12' 10' 11'

50' (TYP)

MATCH LINE STA. 260+00

110' 100'

LANE CLOSED R11-2(MOD) 48" X 30"

W06-3

** = AREA TO BE MAINTAINED AT ALL TIMES FOR TURNING MOVEMENTS EXCEPT FOR SPECIFIC WORK OPERATIONS IN THIS AREA

ROAD WORK AHEAD W20-1

END ROAD WORK G20-2A 48" X 24"

NORTHRIDGE LAKES BLVD

11+00 N.L.T.

21' 11'

12+00 N.L.T.

LEGEND

- WORK ZONE
- TEMPORARY PAVEMENT
- TEMPORARY CROSSWALK ACCESS
- TEMPORARY BUS STOP PAD
- TEMPORARY PAVEMENT TO BE USED IN FUTURE STAGES
- SIGNAL CONTROLLED INTERSECTION
- TRAFFIC FLOW ARROW
- DRUM WITH/WITHOUT LIGHT, TYPE C
- FLEXIBLE TUBULAR MARKERS
- SIGN MOUNTED ON POST
- SIGN MOUNTED ON TEMPORARY SUPPORT
- TYPE III BARRICADE WITH/WITHOUT SIGN
- REMOVING PAVEMENT MARKINGS

PROJECT NO: 2140-08-73	HWY: STH 181-N. 76TH ST.	COUNTY: MILWAUKEE	CONSTRUCTION STAGING - STAGE 3 PHASE II	SHEET 501 E

2

NOTE:

FOR SIDEWALK CLOSURE USE STANDARD DETAIL DRAWING "TRAFFIC CONTROL, SIDEWALK CLOSURE"

W01-4L

35 M.P.H.
W013-1
24" X 24"

STOP
R1-1
30" X 30"
21-6

STOP
R1-1
30" X 30"
21-5

R4-7
24" X 30"
21-7

PRIVATE ROAD

FOR ROAD CLOSURE
USE STANDARD DETAIL DRAWING
"BARRICADES AND SIGNS FOR
SIDE ROAD CLOUSERS (DETAIL 1)"

STA. 264+15 LT
MAINTAIN TEMPORARY
ACCESS, SEE DETAIL

N

MATCH LINE STA. 260+00

00 261+00 262+00 263+00 264+00 265+00 266

MATCH LINE STA. 266+00

50' (TYP)

STH 181 / 76TH ST

12'
5'
12'

50' (TYP)

W06-3

4

6

PAVEMENT MARKING LEGEND

④ TEMPORARY PAVEMENT MARKING REMOVABLE TAPE 4-INCH (WHITE)

⑥ TEMPORARY PAVEMENT MARKING REMOVABLE TAPE 4-INCH (YELLOW)

LEGEND

- WORK ZONE
- TEMPORARY PAVEMENT
- TEMPORARY CROSSWALK ACCESS
- TEMPORARY BUS STOP PAD
- TEMPORARY PAVEMENT TO BE USED IN FUTURE STAGES
- SIGNAL CONTROLLED INTERSECTION
- TRAFFIC FLOW ARROW
- DRUM WITH/WITHOUT LIGHT, TYPE C
- FLEXIBLE TUBULAR MARKERS
- SIGN MOUNTED ON POST
- SIGN MOUNTED ON TEMPORARY SUPPORT
- TYPE III BARRICADE WITH/WITHOUT SIGN
- REMOVING PAVEMENT MARKINGS

PROJECT NO: 2140-08-73	HWY: STH 181-N. 76TH ST.	COUNTY: MILWAUKEE	CONSTRUCTION STAGING - STAGE 3	SHEET 502	E

2

NOTE:

FOR SIDEWALK CLOSURE USE STANDARD DETAIL DRAWING "TRAFFIC CONTROL, SIDEWALK CLOSURE"

PAVEMENT MARKING LEGEND

(4) TEMPORARY PAVEMENT MARKING REMOVABLE TAPE 4-INCH (WHITE)

(6) TEMPORARY PAVEMENT MARKING REMOVABLE TAPE 4-INCH (YELLOW)

22-2 — W3-3, 36" X 36"

22-3 — NO PARKING, R7-1D, 18" X 24"

EXISTING SIGN TO BE MOVED

22-4 — W3-3, 36" X 36"

MOVE SIGN TO HERE

22-4 — W3-3, 36" X 36"

22-10 — SPEED LIMIT 45, R2-1, 24" X 30"

MOVE SIGN TO HERE

22-11 — SPEED LIMIT 45, R2-1, 24" X 30"

22-8 — NO PARKING, R7-1D, 18" X 24"

STA. 270+00 LT
MAINTAIN TEMPORARY
ACCESS, SEE DETAIL

W06-3

MATCH LINE STA. 266+00

00 | 267+00 | 268+00 | 269+00 | 270+00 | 271+00 | 272

4

12'

5'

12'

STH 181 / 76TH ST

50' (TYP)

6

MATCH LINE STA. 272+00

22-5 — SPEED LIMIT 45, R2-1, 24" X 30"

22-11 — SPEED LIMIT 45, R2-1, 24" X 30"

EXISTING SIGN TO BE MOVED

LEGEND

- WORK ZONE
- TEMPORARY PAVEMENT
- TEMPORARY CROSSWALK ACCESS
- TEMPORARY BUS STOP PAD
- TEMPORARY PAVEMENT TO BE USED IN FUTURE STAGES
- SIGNAL CONTROLLED INTERSECTION
- TRAFFIC FLOW ARROW
- DRUM WITH/WITHOUT LIGHT, TYPE C
- FLEXIBLE TUBULAR MARKERS
- SIGN MOUNTED ON POST
- SIGN MOUNTED ON TEMPORARY SUPPORT
- TYPE III BARRICADE WITH/WITHOUT SIGN
- REMOVING PAVEMENT MARKINGS

PROJECT NO: 2140-08-73	HWY: STH 181-N. 76TH ST.	COUNTY: MILWAUKEE	CONSTRUCTION STAGING - STAGE 3	SHEET 503	E

2

N

GLENBROOK RD

ROAD WORK AHEAD
W20-1

250'

END ROAD WORK
G20-2A
48" X 24"

MOVE SIGN TO HERE
23-6
STOP
R1-1
30" X 30"

23-3
NO PASSING ZONE
R7-1D
18" X 24"

W01-4L

35 M.P.H.
W013-1
24" X 24"

EXISTING SIGN TO BE MOVED
STOP
23-6
R1-1
30" X 30"

23-9
NO PASSING ZONE
R7-1D
18" X 24"

STA. 276+68 LT
MAINTAIN TEMPORARY
ACCESS, SEE DETAIL

MATCH LINE STA. 272+00

273+00

274+00

275+00

276+00

277+00

278

MATCH LINE STA. 278+00

25' (TYP)

50' (TYP)

50' (TYP)

125'

**

STH 181 / 76TH ST

12'

5'

12'

LANE CLOSED
R11-2(MOD)
48" X 30"

R4-7
24" X 30"

W06-3

MOVE SIGN TO HERE
SPEED LIMIT 45
R2-1
24" X 30"
23-8

SPEED LIMIT 45
R2-1
24" X 30"
23-8
EXISTING SIGN TO BE MOVED

NOTE:

FOR SIDEWALK CLOSURE USE STANDARD DETAIL DRAWING "TRAFFIC CONTROL, SIDEWALK CLOSURE"

** = AREA TO BE MAINTAINED AT ALL TIMES FOR TURNING MOVEMENTS EXCEPT FOR SPECIFIC WORK OPERATIONS IN THIS AREA

PAVEMENT MARKING LEGEND

1. TEMPORARY PAVEMENT MARKING 4-INCH (DASHED WHITE)
2. TEMPORARY PAVEMENT MARKING REMOVABLE TAPE 4-INCH (DASHED WHITE)
4. TEMPORARY PAVEMENT MARKING REMOVABLE TAPE 4-INCH (WHITE)
6. TEMPORARY PAVEMENT MARKING REMOVABLE TAPE 4-INCH (YELLOW)
8. TEMPORARY PAVEMENT MARKING ARROWS REMOVABLE TAPE (TYP)
10. TEMPORARY PAVEMENT MARKING WORDS REMOVABLE TAPE (TYP)
12. TEMPORARY PAVEMENT MARKING REMOVABLE TAPE 8-INCH (CHANNELIZING)

LEGEND

- WORK ZONE
- TEMPORARY PAVEMENT
- TEMPORARY CROSSWALK ACCESS
- TEMPORARY BUS STOP PAD
- TEMPORARY PAVEMENT TO BE USED IN FUTURE STAGES
- SIGNAL CONTROLLED INTERSECTION
- TRAFFIC FLOW ARROW
- DRUM WITH/WITHOUT LIGHT, TYPE C
- FLEXIBLE TUBULAR MARKERS
- SIGN MOUNTED ON POST
- SIGN MOUNTED ON TEMPORARY SUPPORT
- TYPE III BARRICADE WITH/WITHOUT SIGN
- REMOVING PAVEMENT MARKINGS

PROJECT NO: 2140-08-73	HWY: STH 181-N. 76TH ST.	COUNTY: MILWAUKEE	CONSTRUCTION STAGING - STAGE 3 PHASE I	SHEET 504	E

2

N

ROAD WORK AHEAD
W20-1

250'

GLENBROOK RD

END ROAD WORK
G20-2A
48" X 24"

W01-4L

35 M.P.H.
W013-1
24" X 24"

LANE CLOSED
R11-2(MOD)
48" X 30"

NOTE:

FOR SIDEWALK CLOSURE USE STANDARD DETAIL DRAWING "TRAFFIC CONTROL, SIDEWALK CLOSURE"

PAVEMENT MARKING LEGEND

(1)	TEMPORARY PAVEMENT MARKING 4-INCH (DASHED WHITE)
(4)	TEMPORARY PAVEMENT MARKING REMOVABLE TAPE 4-INCH (WHITE)
(6)	TEMPORARY PAVEMENT MARKING REMOVABLE TAPE 4-INCH (YELLOW)
(8)	TEMPORARY PAVEMENT MARKING ARROWS REMOVABLE TAPE (TYP)
(10)	TEMPORARY PAVEMENT MARKING WORDS REMOVABLE TAPE (TYP)
(12)	TEMPORARY PAVEMENT MARKING REMOVABLE TAPE 8-INCH (CHANNELIZING)

MATCH LINE STA. 272+00

273+00

274+00

275+00

276+00

277+00

MATCH LINE STA. 278+00

50' (TYP)

50' (TYP)

12'

5'

12'

STH 181 / 76TH ST

R4-7
24" X 30"

W06-3

LEGEND

WORK ZONE	TRAFFIC FLOW ARROW
TEMPORARY PAVEMENT	DRUM WITH/WITHOUT LIGHT, TYPE C
TEMPORARY CROSSWALK ACCESS	FLEXIBLE TUBULAR MARKERS
TEMPORARY BUS STOP PAD	SIGN MOUNTED ON POST
TEMPORARY PAVEMENT TO BE USED IN FUTURE STAGES	SIGN MOUNTED ON TEMPORARY SUPPORT
SIGNAL CONTROLLED INTERSECTION	TYPE III BARRICADE WITH/WITHOUT SIGN
	REMOVING PAVEMENT MARKINGS

PROJECT NO: 2140-08-73	HWY: STH 181-N. 76TH ST.	COUNTY: MILWAUKEE	CONSTRUCTION STAGING - STAGE 3 PHASE II	SHEET 505	E

2

MOVE SIGN TO HERE

CITY OF
MILWAUKEE
NO PARKING
2 AM-6 AM
ON ANY STREET WITHOUT
POLICE PERMIT
NIGHT PARKING AN SNOW
EMERGENCY REGULATIONS
ARE IN EFFECT IN THIS CITY

24-7

EXISTING SIGN TO BE MOVED

CITY OF
MILWAUKEE
NO PARKING
2 AM-6 AM
ON ANY STREET WITHOUT
POLICE PERMIT
NIGHT PARKING AN SNOW
EMERGENCY REGULATIONS
ARE IN EFFECT IN THIS CITY

24-7

24-9

RIGHT LANE MUST TURN RIGHT
R3-7R
30" X 30"

24-1

RIGHT LANE MUST TURN RIGHT
R3-7R
30" X 30"

W06-3

MATCH LINE STA. 278+00

MATCH LINE STA. 284+00

278+00

279+00

280+00

281+00

282+00

283+00

284

STH 181 / 76TH ST

50' (TYP)

12'

5'

12'

25' (TYP)

25' (TYP)

25' (TYP)

4

6

6

24-6

COUNTY LINE RD
MI-94

MOVE SIGN TO HERE

24-5

W3-3
36" X 36"

24-5

W3-3
36" X 36"
EXISTING SIGN TO BE MOVED

NOTE:

FOR SIDEWALK CLOSURE USE STANDARD DETAIL DRAWING "TRAFFIC CONTROL, SIDEWALK CLOSURE"

PAVEMENT MARKING LEGEND

(4) TEMPORARY PAVEMENT MARKING REMOVABLE TAPE 4-INCH (WHITE)

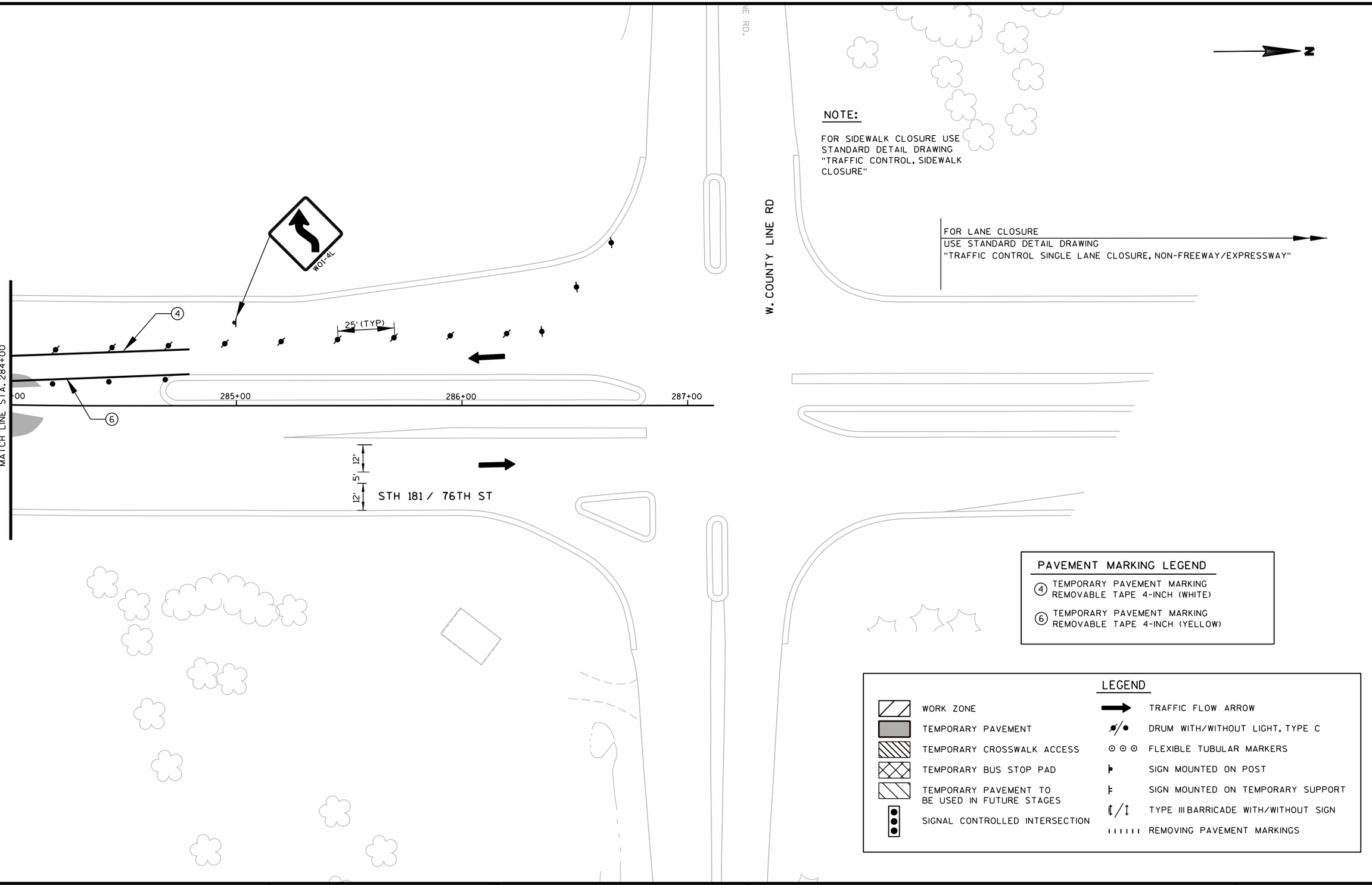
(6) TEMPORARY PAVEMENT MARKING REMOVABLE TAPE 4-INCH (YELLOW)

LEGEND

- WORK ZONE
- TEMPORARY PAVEMENT
- TEMPORARY CROSSWALK ACCESS
- TEMPORARY BUS STOP PAD
- TEMPORARY PAVEMENT TO BE USED IN FUTURE STAGES
- SIGNAL CONTROLLED INTERSECTION
- TRAFFIC FLOW ARROW
- DRUM WITH/WITHOUT LIGHT, TYPE C
- FLEXIBLE TUBULAR MARKERS
- SIGN MOUNTED ON POST
- SIGN MOUNTED ON TEMPORARY SUPPORT
- TYPE III BARRICADE WITH/WITHOUT SIGN
- REMOVING PAVEMENT MARKINGS

PROJECT NO: 2140-08-73	HWY: STH 181-N. 76TH ST.	COUNTY: MILWAUKEE	CONSTRUCTION STAGING - STAGE 3	SHEET 506	E

2



NOTE:

FOR SIDEWALK CLOSURE USE STANDARD DETAIL DRAWING "TRAFFIC CONTROL, SIDEWALK CLOSURE"

FOR LANE CLOSURE
USE STANDARD DETAIL DRAWING
"TRAFFIC CONTROL SINGLE LANE CLOSURE, NON-FREEWAY/EXPRESSWAY"

PAVEMENT MARKING LEGEND

④ TEMPORARY PAVEMENT MARKING REMOVABLE TAPE 4-INCH (WHITE)

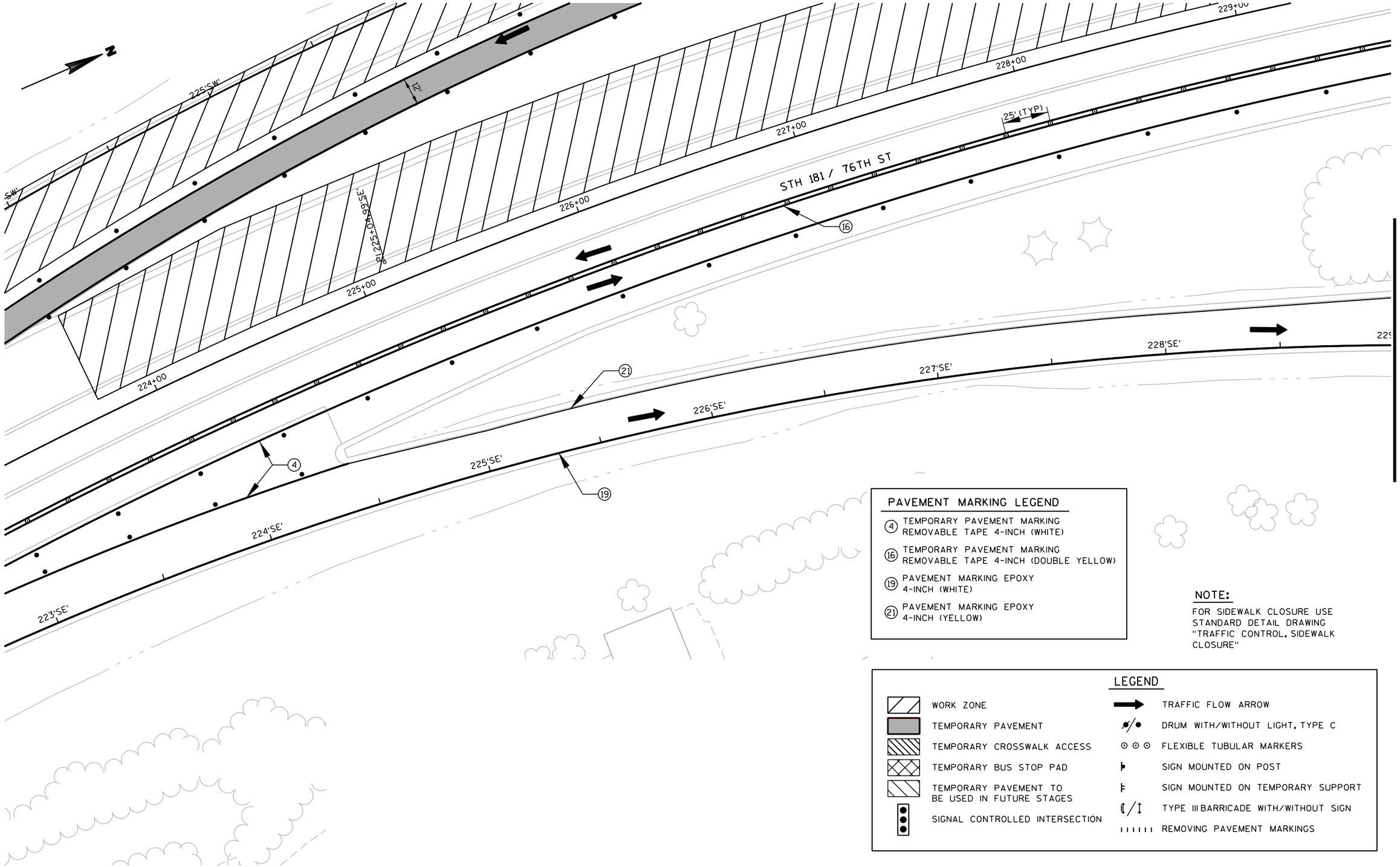
⑥ TEMPORARY PAVEMENT MARKING REMOVABLE TAPE 4-INCH (YELLOW)

LEGEND

- WORK ZONE
- TEMPORARY PAVEMENT
- TEMPORARY CROSSWALK ACCESS
- TEMPORARY BUS STOP PAD
- TEMPORARY PAVEMENT TO BE USED IN FUTURE STAGES
- SIGNAL CONTROLLED INTERSECTION
- TRAFFIC FLOW ARROW
- DRUM WITH/WITHOUT LIGHT, TYPE C
- FLEXIBLE TUBULAR MARKERS
- SIGN MOUNTED ON POST
- SIGN MOUNTED ON TEMPORARY SUPPORT
- TYPE III BARRICADE WITH/WITHOUT SIGN
- REMOVING PAVEMENT MARKINGS

PROJECT NO: 2140-08-73	HWY: STH 181-N. 76TH ST.	COUNTY: MILWAUKEE	CONSTRUCTION STAGING - STAGE 3	SHEET 507	E

2



PAVEMENT MARKING LEGEND

- (4) TEMPORARY PAVEMENT MARKING REMOVABLE TAPE 4-INCH (WHITE)
- (16) TEMPORARY PAVEMENT MARKING REMOVABLE TAPE 4-INCH (DOUBLE YELLOW)
- (19) PAVEMENT MARKING EPOXY 4-INCH (WHITE)
- (21) PAVEMENT MARKING EPOXY 4-INCH (YELLOW)

NOTE:

FOR SIDEWALK CLOSURE USE STANDARD DETAIL DRAWING "TRAFFIC CONTROL, SIDEWALK CLOSURE"

LEGEND

- WORK ZONE
- TEMPORARY PAVEMENT
- TEMPORARY CROSSWALK ACCESS
- TEMPORARY BUS STOP PAD
- TEMPORARY PAVEMENT TO BE USED IN FUTURE STAGES
- SIGNAL CONTROLLED INTERSECTION
- TRAFFIC FLOW ARROW
- DRUM WITH/WITHOUT LIGHT, TYPE C
- FLEXIBLE TUBULAR MARKERS
- SIGN MOUNTED ON POST
- SIGN MOUNTED ON TEMPORARY SUPPORT
- TYPE III BARRICADE WITH/WITHOUT SIGN
- REMOVING PAVEMENT MARKINGS

PROJECT NO: 2140-08-73	HWY: STH 181-N. 76TH ST.	COUNTY: MILWAUKEE	CONSTRUCTION STAGING - STAGE 3 PHASE I	SHEET 508	E

2

LEGEND

- WORK ZONE
- TEMPORARY PAVEMENT
- TEMPORARY CROSSWALK ACCESS
- TEMPORARY BUS STOP PAD
- TEMPORARY PAVEMENT TO BE USED IN FUTURE STAGES
- SIGNAL CONTROLLED INTERSECTION
- TRAFFIC FLOW ARROW
- DRUM WITH/WITHOUT LIGHT, TYPE C
- FLEXIBLE TUBULAR MARKERS
- SIGN MOUNTED ON POST
- SIGN MOUNTED ON TEMPORARY SUPPORT
- TYPE III BARRICADE WITH/WITHOUT SIGN
- REMOVING PAVEMENT MARKINGS

N

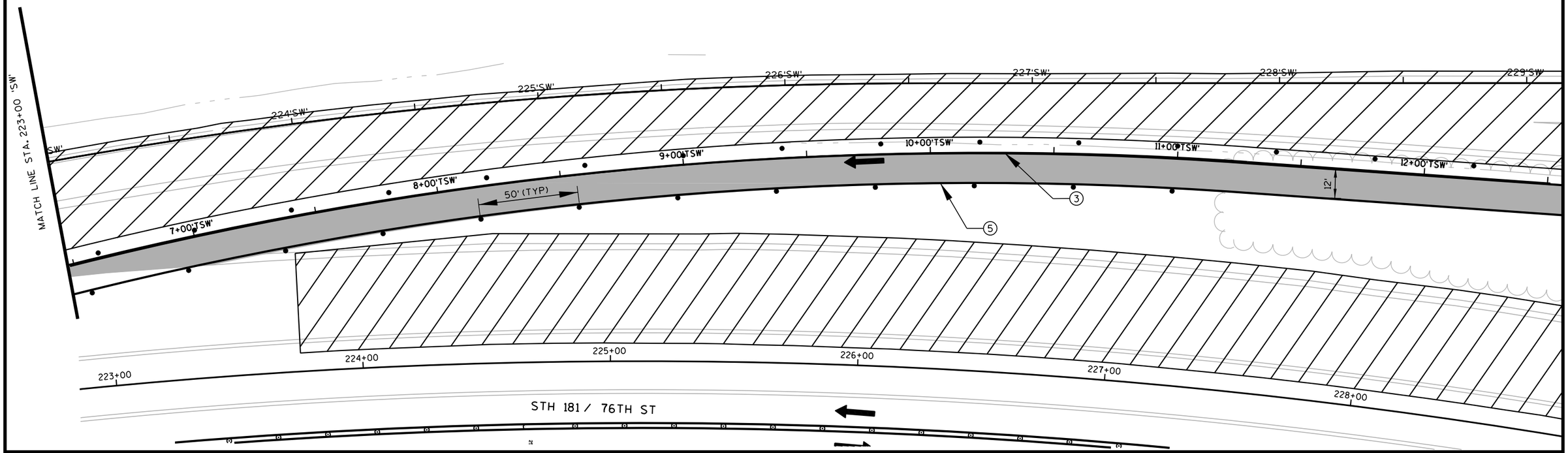
PAVEMENT MARKING LEGEND

(3) TEMPORARY PAVEMENT MARKING 4-INCH (WHITE)

(5) TEMPORARY PAVEMENT MARKING 4-INCH (YELLOW)

NOTE:

FOR SIDEWALK CLOSURE USE STANDARD DETAIL DRAWING "TRAFFIC CONTROL, SIDEWALK CLOSURE"



PROJECT NO: 2140-08-73	HWY: STH 181-N. 76TH ST.	COUNTY: MILWAUKEE	CONSTRUCTION STAGING - STAGE 3 PHASE I	SHEET 509	E

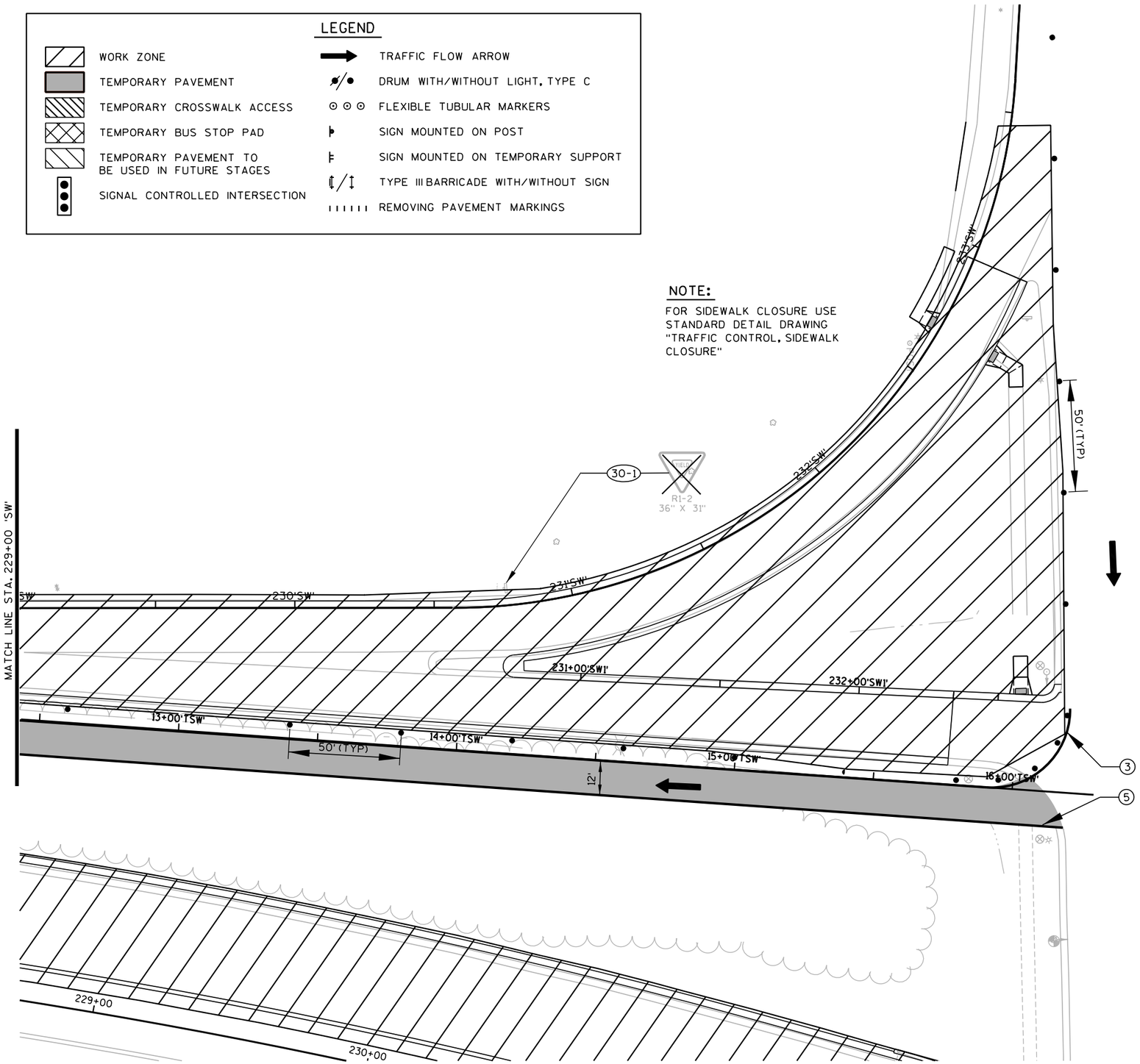
2

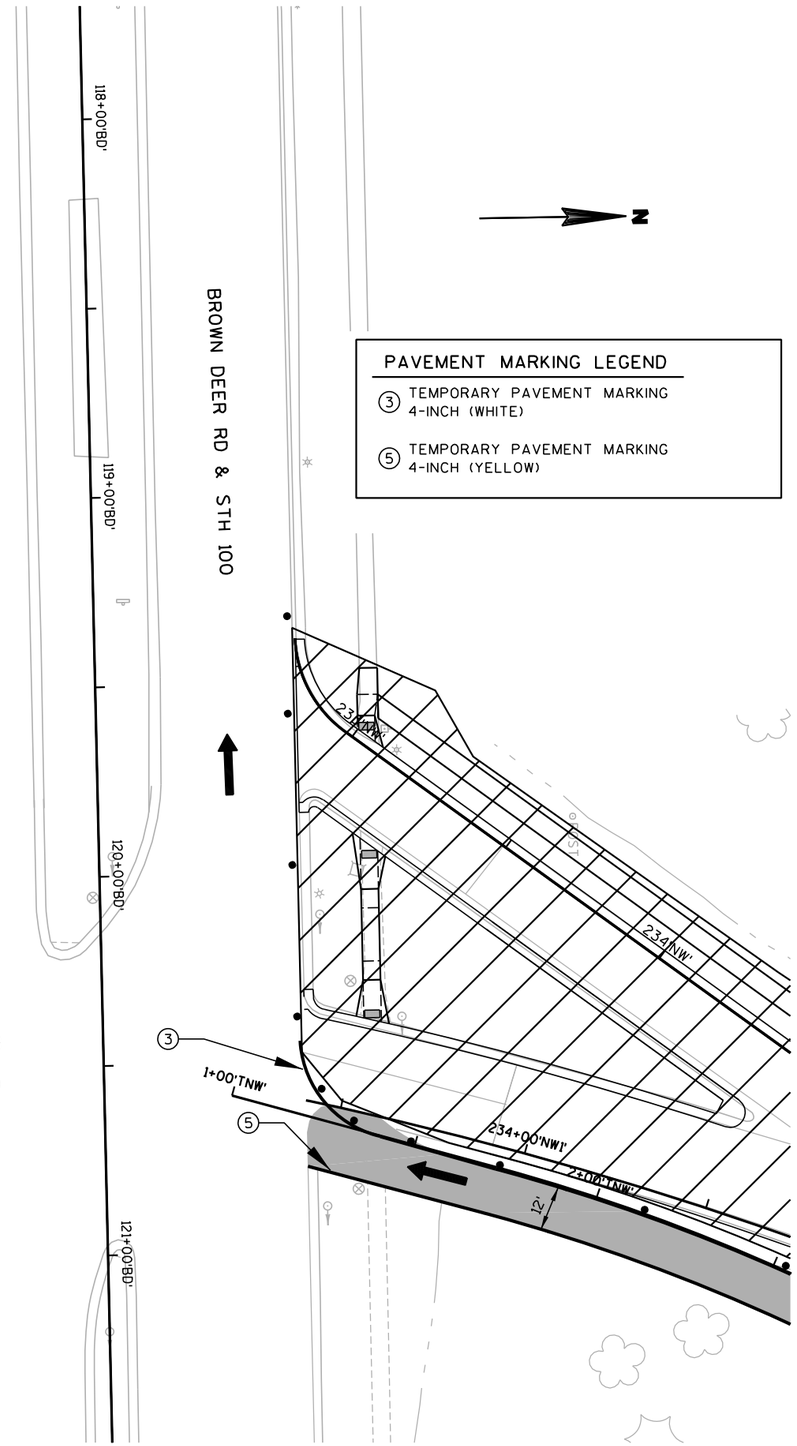
LEGEND

- WORK ZONE
- TEMPORARY PAVEMENT
- TEMPORARY CROSSWALK ACCESS
- TEMPORARY BUS STOP PAD
- TEMPORARY PAVEMENT TO BE USED IN FUTURE STAGES
- SIGNAL CONTROLLED INTERSECTION
- TRAFFIC FLOW ARROW
- DRUM WITH/WITHOUT LIGHT, TYPE C
- FLEXIBLE TUBULAR MARKERS
- SIGN MOUNTED ON POST
- SIGN MOUNTED ON TEMPORARY SUPPORT
- TYPE III BARRICADE WITH/WITHOUT SIGN
- REMOVING PAVEMENT MARKINGS

NOTE:

FOR SIDEWALK CLOSURE USE STANDARD DETAIL DRAWING "TRAFFIC CONTROL, SIDEWALK CLOSURE"





PAVEMENT MARKING LEGEND

(3) TEMPORARY PAVEMENT MARKING 4-INCH (WHITE)

(5) TEMPORARY PAVEMENT MARKING 4-INCH (YELLOW)

PROJECT NO: 2140-08-73	HWY: STH 181-N. 76TH ST.	COUNTY: MILWAUKEE	CONSTRUCTION STAGING - STAGE 3 PHASE I	SHEET 510	E

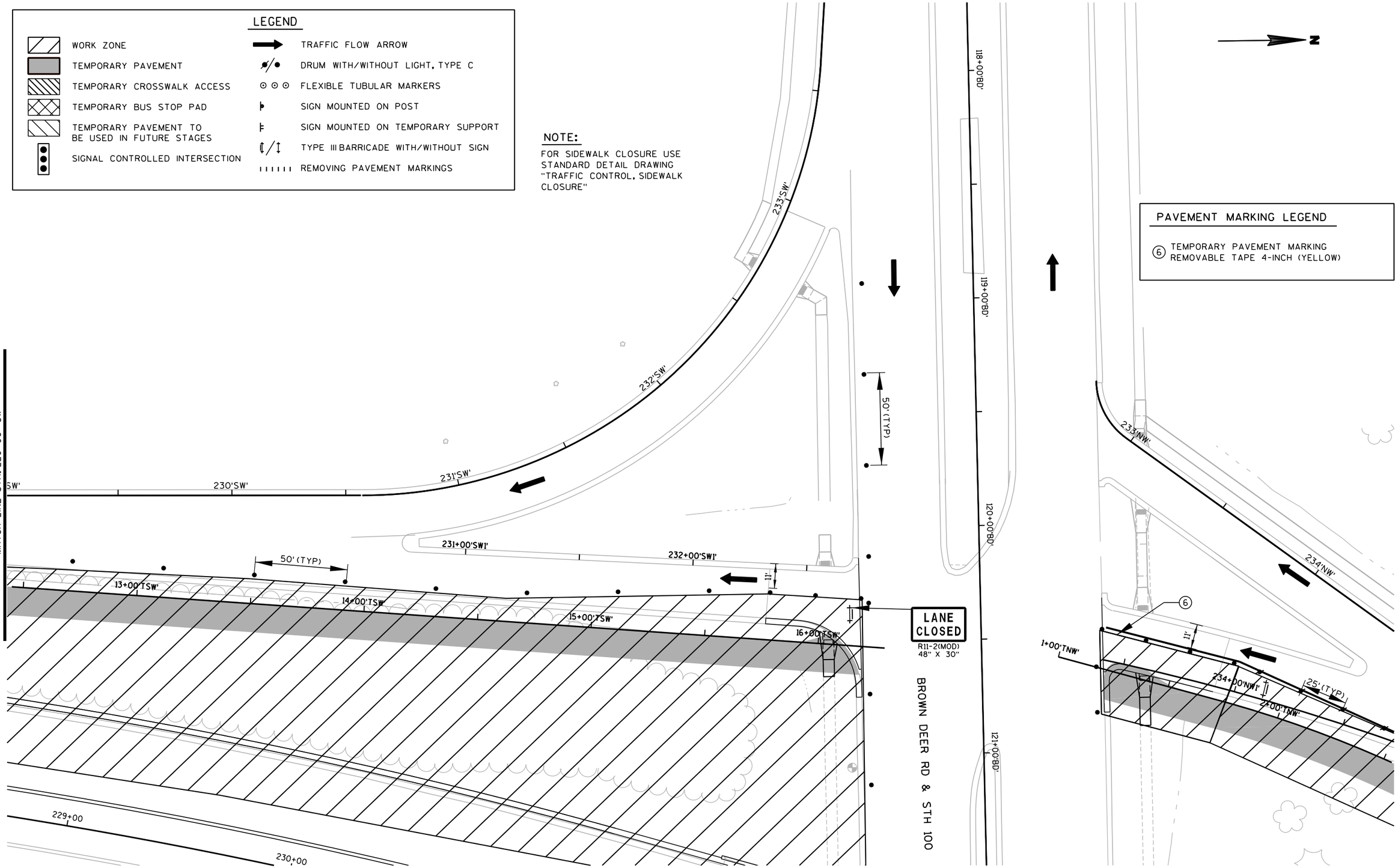
2

LEGEND

- WORK ZONE
- TEMPORARY PAVEMENT
- TEMPORARY CROSSWALK ACCESS
- TEMPORARY BUS STOP PAD
- TEMPORARY PAVEMENT TO BE USED IN FUTURE STAGES
- SIGNAL CONTROLLED INTERSECTION
- TRAFFIC FLOW ARROW
- DRUM WITH/WITHOUT LIGHT, TYPE C
- FLEXIBLE TUBULAR MARKERS
- SIGN MOUNTED ON POST
- SIGN MOUNTED ON TEMPORARY SUPPORT
- TYPE III BARRICADE WITH/WITHOUT SIGN
- REMOVING PAVEMENT MARKINGS

NOTE:

FOR SIDEWALK CLOSURE USE STANDARD DETAIL DRAWING "TRAFFIC CONTROL, SIDEWALK CLOSURE"



2

PROJECT NO: 2140-08-73	HWY: STH 181-N. 76TH ST.	COUNTY: MILWAUKEE	CONSTRUCTION STAGING - STAGE 3 PHASE II	SHEET 511	E

2

LEGEND

- WORK ZONE
- TEMPORARY PAVEMENT
- TEMPORARY CROSSWALK ACCESS
- TEMPORARY BUS STOP PAD
- TEMPORARY PAVEMENT TO BE USED IN FUTURE STAGES
- SIGNAL CONTROLLED INTERSECTION
- TRAFFIC FLOW ARROW
- DRUM WITH/WITHOUT LIGHT, TYPE C
- FLEXIBLE TUBULAR MARKERS
- SIGN MOUNTED ON POST
- SIGN MOUNTED ON TEMPORARY SUPPORT
- TYPE III BARRICADE WITH/WITHOUT SIGN
- REMOVING PAVEMENT MARKINGS

NOTE:

FOR SIDEWALK CLOSURE USE STANDARD DETAIL DRAWING "TRAFFIC CONTROL, SIDEWALK CLOSURE"

PAVEMENT MARKING LEGEND

(3) TEMPORARY PAVEMENT MARKING 4-INCH (WHITE)

(5) TEMPORARY PAVEMENT MARKING 4-INCH (YELLOW)

BROWN DEER ROAD

118+00'BD'

119+00'BD'

120+00'BD'

121+00'BD'

50' (TYP)

232+00'SW'

232+50'SW'

232+75'SW'

233+00'SW'

233+40.60'NW'

232+97'NW'

234+00'NW'

234'NW'

235'NW'

236'NW'

237

235+00'NW'

236+00'NW'

234+00'TNW'

2+00'TNW'

3+00'TNW'

4+00'TNW'

1+00'TNW'

PC 233+40.60'NW'

PT 234+76.31'NW

PT 236+10.31'NW

12'

31-1 R1-1F 36" X 36"

31-2 R1-1F 36" X 36"

31-3 R3-7L 30" X 30"

31-4 J2-2 48" X 57"

EXISTING SIGN TO BE MOVED

MOVE SIGN TO HERE

NOTE: REMOVE AT END OF STAGE

MATCH LINE STA. 237+00 'NW'

PROJECT NO: 2140-08-73	HWY: STH 181-N. 76TH ST.	COUNTY: MILWAUKEE	CONSTRUCTION STAGING - STAGE 3 PHASE 1	SHEET 512	E

2

LEGEND

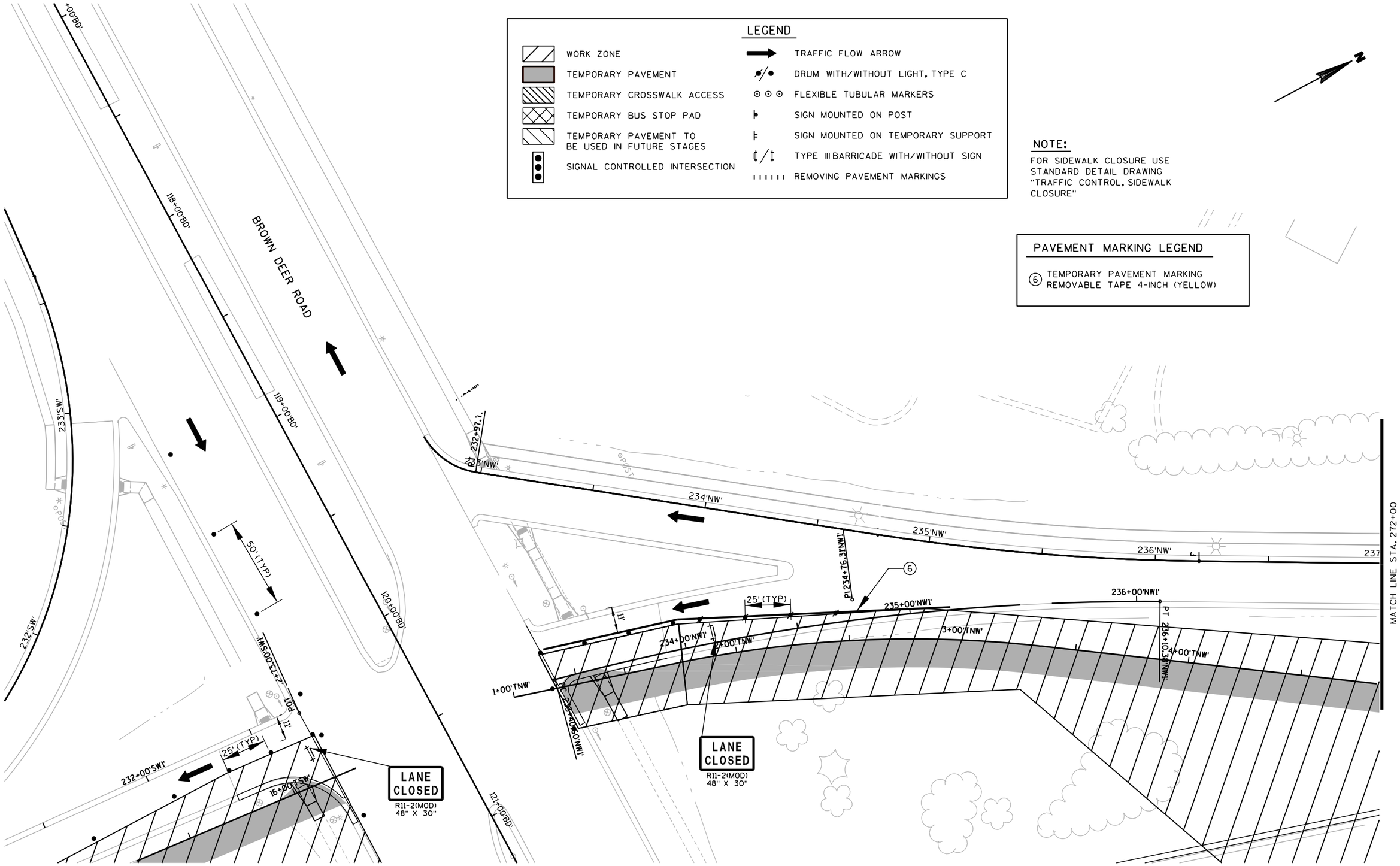
- WORK ZONE
- TEMPORARY PAVEMENT
- TEMPORARY CROSSWALK ACCESS
- TEMPORARY BUS STOP PAD
- TEMPORARY PAVEMENT TO BE USED IN FUTURE STAGES
- SIGNAL CONTROLLED INTERSECTION
- TRAFFIC FLOW ARROW
- DRUM WITH/WITHOUT LIGHT, TYPE C
- FLEXIBLE TUBULAR MARKERS
- SIGN MOUNTED ON POST
- SIGN MOUNTED ON TEMPORARY SUPPORT
- TYPE III BARRICADE WITH/WITHOUT SIGN
- REMOVING PAVEMENT MARKINGS

NOTE:

FOR SIDEWALK CLOSURE USE STANDARD DETAIL DRAWING "TRAFFIC CONTROL, SIDEWALK CLOSURE"

PAVEMENT MARKING LEGEND

⑥ TEMPORARY PAVEMENT MARKING REMOVABLE TAPE 4-INCH (YELLOW)



PROJECT NO: 2140-08-73	HWY: STH 181-N. 76TH ST.	COUNTY: MILWAUKEE	CONSTRUCTION STAGING - STAGE 3 PHASE II	SHEET 513	E

2

NOTE:

FOR SIDEWALK CLOSURE USE STANDARD DETAIL DRAWING "TRAFFIC CONTROL, SIDEWALK CLOSURE"

LEGEND

- WORK ZONE
- TEMPORARY PAVEMENT
- TEMPORARY CROSSWALK ACCESS
- TEMPORARY BUS STOP PAD
- TEMPORARY PAVEMENT TO BE USED IN FUTURE STAGES
- SIGNAL CONTROLLED INTERSECTION
- TRAFFIC FLOW ARROW
- DRUM WITH/WITHOUT LIGHT, TYPE C
- FLEXIBLE TUBULAR MARKERS
- SIGN MOUNTED ON POST
- SIGN MOUNTED ON TEMPORARY SUPPORT
- TYPE III BARRICADE WITH/WITHOUT SIGN
- REMOVING PAVEMENT MARKINGS

PAVEMENT MARKING LEGEND

- (2) TEMPORARY PAVEMENT MARKING REMOVABLE TAPE 4-INCH (DASHED WHITE)
- (3) TEMPORARY PAVEMENT MARKING 4-INCH (WHITE)
- (5) TEMPORARY PAVEMENT MARKING 4-INCH (YELLOW)
- (16) TEMPORARY PAVEMENT MARKING REMOVABLE TAPE 4-INCH (DOUBLE YELLOW)

MATCH LINE STA. 237+00 'NW'

EXISTING SIGN TO BE MOVED

32-1

EAST 100 | WEST 100

J3-2
48" X 57"

MOVE SIGN TO HERE

EAST 100 | WEST 100

J3-2
48" X 57"

32-1

EXISTING SIGN TO BE MOVED

32-2

W3-3
36" X 36"

17-10

W12-1D
24" X 24"

MOVE SIGN TO HERE

32-2

W3-3
36" X 36"

NO TURN ON RED

R7-1D
18" X 24"

17-8

238'NW'

239'NW'

240'NW'

241'NW'

242'NW'

243'NW'

5+00'TNW'

6+00'TNW'

7+00'TNW'

8+00'TNW'

9+00'TNW'

10+00'TNE'

9+00'TNE'

237+00

238+00

239+00

240+00

241+00

242+00

50' (TYP)

12'

25' (TYP)

50' (TYP)

NO TURN ON RED

R7-1D
18" X 24"

17-4

5

3

2

16

17-6

MOVE SIGN TO HERE

242'NE'

W3-3
36" X 36"

17-6

EXISTING SIGN TO BE MOVED

W3-3
36" X 36"

PROJECT NO: 2140-08-73	HWY: STH 181-N. 76TH ST.	COUNTY: MILWAUKEE	CONSTRUCTION STAGING - STAGE 3 PHASE I	SHEET 514	E

2

2

LEGEND

- WORK ZONE
- TEMPORARY PAVEMENT
- TEMPORARY CROSSWALK ACCESS
- TEMPORARY BUS STOP PAD
- TEMPORARY PAVEMENT TO BE USED IN FUTURE STAGES
- SIGNAL CONTROLLED INTERSECTION
- TRAFFIC FLOW ARROW
- DRUM WITH/WITHOUT LIGHT, TYPE C
- FLEXIBLE TUBULAR MARKERS
- SIGN MOUNTED ON POST
- SIGN MOUNTED ON TEMPORARY SUPPORT
- TYPE III BARRICADE WITH/WITHOUT SIGN
- REMOVING PAVEMENT MARKINGS

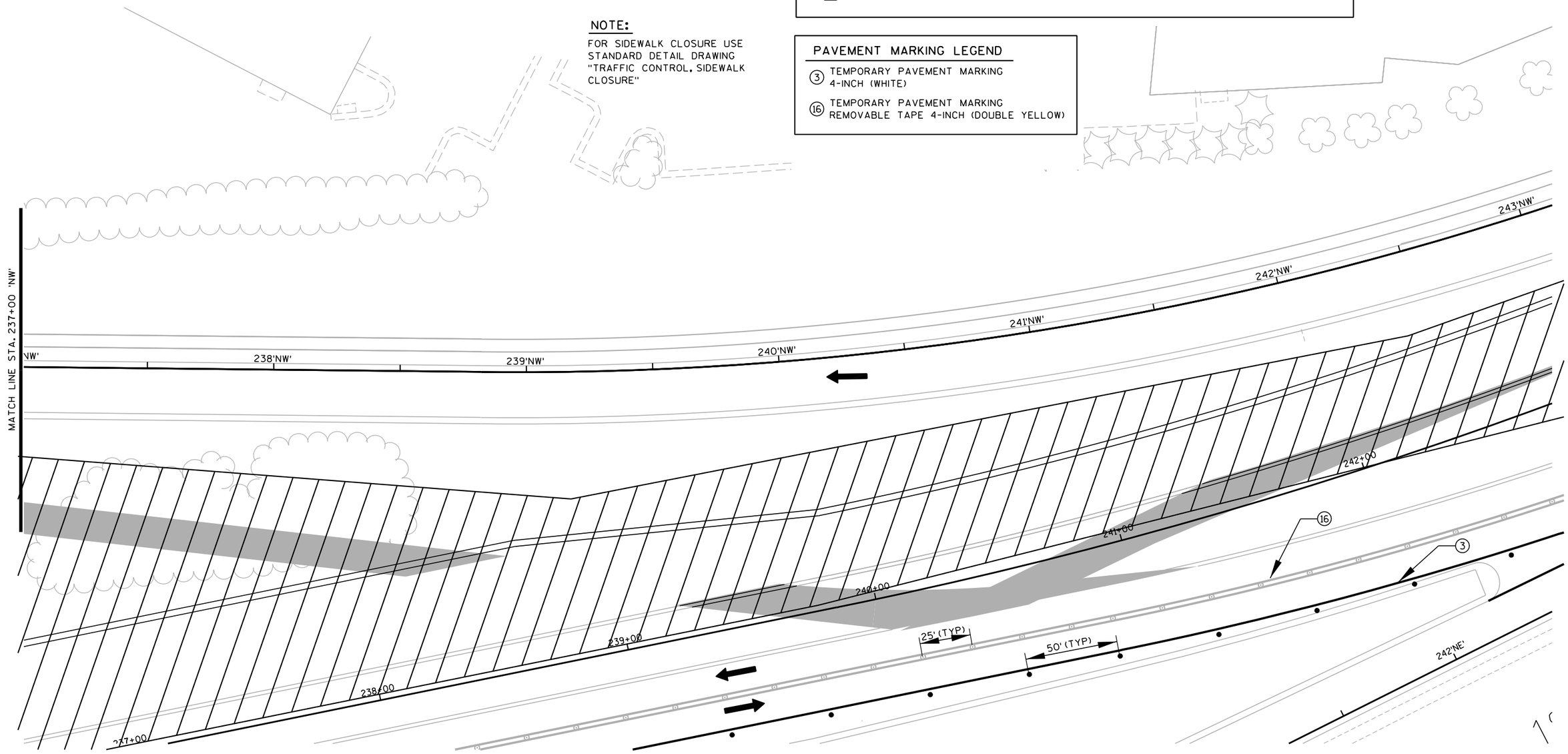
NOTE:

FOR SIDEWALK CLOSURE USE STANDARD DETAIL DRAWING "TRAFFIC CONTROL, SIDEWALK CLOSURE"

PAVEMENT MARKING LEGEND

(3) TEMPORARY PAVEMENT MARKING 4-INCH (WHITE)

(16) TEMPORARY PAVEMENT MARKING REMOVABLE TAPE 4-INCH (DOUBLE YELLOW)



PROJECT NO: 2140-08-73	HWY: STH 181-N. 76TH ST.	COUNTY: MILWAUKEE	CONSTRUCTION STAGING - STAGE 3 PHASE II	SHEET 515	E

2

LEGEND

- WORK ZONE
- TEMPORARY PAVEMENT
- TEMPORARY CROSSWALK ACCESS
- TEMPORARY BUS STOP PAD
- TEMPORARY PAVEMENT TO BE USED IN FUTURE STAGES
- SIGNAL CONTROLLED INTERSECTION
- TRAFFIC FLOW ARROW
- DRUM WITH/WITHOUT LIGHT, TYPE C
- FLEXIBLE TUBULAR MARKERS
- SIGN MOUNTED ON POST
- SIGN MOUNTED ON TEMPORARY SUPPORT
- TYPE III BARRICADE WITH/WITHOUT SIGN
- REMOVING PAVEMENT MARKINGS

NOTE:
FOR SIDEWALK CLOSURE USE STANDARD DETAIL DRAWING "TRAFFIC CONTROL, SIDEWALK CLOSURE"

N

END ROAD WORK
G20-2A
48" X 24"

163'
100'
10'
25' (TYP)
9+00'C'
10+00'C'
11+00'C'
350'
55'
100'
25' (TYP)
10'
11+00'C'
350'

LANE CLOSED
R11-2(MOD)
48" X 30"

ROAD WORK AHEAD
W20-1

CALUMET ROAD

154+00
153+00
152+00
151+00
ONLY

W01-6
48" X 24"

LANE CLOSED
R11-2(MOD)
48" X 30"

ROAD WORK AHEAD
W20-1

END ROAD WORK
G20-2A
48" X 24"

PAVEMENT MARKING LEGEND

(4) TEMPORARY PAVEMENT MARKING REMOVABLE TAPE 4-INCH (WHITE)

(14) TEMPORARY PAVEMENT MARKING STOP LINE REMOVABLE TAPE 18-INCH

(16) TEMPORARY PAVEMENT MARKING REMOVABLE TAPE 4-INCH (DOUBLE YELLOW)

PROJECT NO: 2140-08-73	HWY: STH 181-N. 76TH ST.	COUNTY: MILWAUKEE	CONSTRUCTION STAGING - STAGE 3 PHASE I	SHEET 516	E

LEGEND

- WORK ZONE
- TEMPORARY PAVEMENT
- TEMPORARY CROSSWALK ACCESS
- TEMPORARY BUS STOP PAD
- TEMPORARY PAVEMENT TO BE USED IN FUTURE STAGES
- SIGNAL CONTROLLED INTERSECTION
- TRAFFIC FLOW ARROW
- DRUM WITH/WITHOUT LIGHT, TYPE C
- FLEXIBLE TUBULAR MARKERS
- SIGN MOUNTED ON POST
- SIGN MOUNTED ON TEMPORARY SUPPORT
- TYPE III BARRICADE WITH/WITHOUT SIGN
- REMOVING PAVEMENT MARKINGS

NOTE:

FOR SIDEWALK CLOSURE USE STANDARD DETAIL DRAWING "TRAFFIC CONTROL, SIDEWALK CLOSURE"

END ROAD WORK
G20-2A
48" X 24"

ROAD WORK AHEAD
W20-1

RIGHT TURN LANE
R3-55R
24" X 30"

ROAD WORK AHEAD
W20-1

END ROAD WORK
G20-2A
48" X 24"

9+00'C'
10+00'C'
11+00'C'
10+00'C1'
11+00'C1'
12+00'C1'
25' (TYP)
179'
35'
100'
205'
11'
154+00
153+00
152+00
151+00
ONLY
STH 181 / 76TH ST
CALUMET RD

PAVEMENT MARKING LEGEND

⑫ TEMPORARY PAVEMENT MARKING CHANNELIZING REMOVABLE TAPE 8-INCH

⑭ TEMPORARY PAVEMENT MARKING STOP LINE REMOVABLE TAPE 18-INCH

⑯ TEMPORARY PAVEMENT MARKING REMOVABLE TAPE 4-INCH (DOUBLE YELLOW)

PROJECT NO: 2140-08-73	HWY: STH 181-N. 76TH ST.	COUNTY: MILWAUKEE	CONSTRUCTION STAGING - STAGE 3 PHASE II	SHEET 517	E

2

N

LANE CLOSED
R11-2(MOD)
48" X 30"

LANE CLOSED
R11-2(MOD)
48" X 30"

LANE CLOSED
R11-2(MOD)
48" X 30"

RUINS

WELL

ONLY

18

180+00

NOTE:
FOR SIDEWALK CLOSURE USE STANDARD DETAIL DRAWING "TRAFFIC CONTROL, SIDEWALK CLOSURE"

FOR LANE CLOSURE
SEE CONSTRUCTION DETAIL SHEET

10+00'B'

11+00'B'

12+00'B'

BRADLEY ROAD

9+00'B'

10+00'B'

11+00'B'

12'

12'

14'

16

14

16

14

FOR LANE CLOSURE
SEE CONSTRUCTION DETAIL SHEET

179+00

178+00

ONLY

STH 181 / 76TH STREET

CANOPY

WELL

WELL

WELL

PAVEMENT MARKING LEGEND

(14) TEMPORARY PAVEMENT MARKING
STOP LINE REMOVABLE TAPE 18-INCH

(16) TEMPORARY PAVEMENT MARKING
REMOVABLE TAPE 4-INCH (DOUBLE YELLOW)

LEGEND

- WORK ZONE
- TEMPORARY PAVEMENT
- TEMPORARY CROSSWALK ACCESS
- TEMPORARY BUS STOP PAD
- TEMPORARY PAVEMENT TO BE USED IN FUTURE STAGES
- SIGNAL CONTROLLED INTERSECTION
- TRAFFIC FLOW ARROW
- DRUM WITH/WITHOUT LIGHT, TYPE C
- FLEXIBLE TUBULAR MARKERS
- SIGN MOUNTED ON POST
- SIGN MOUNTED ON TEMPORARY SUPPORT
- TYPE III BARRICADE WITH/WITHOUT SIGN
- REMOVING PAVEMENT MARKINGS

PROJECT NO: 2140-08-73	HWY: STH 181-N. 76TH ST.	COUNTY: MILWAUKEE	CONSTRUCTION STAGING - STAGE 3 PHASE 1	SHEET E

FILE NAME : s:\@sdi\051--100\089\099\micros\design\0873\026233_s3_phase 1.dgn PLOT DATE : 7/30/2007 PLOT BY : $$...plotuser...$$ PLOT NAME : PLOT SCALE : $$.....plotscale.....$$ WISDOT/CADDS SHEET 42

2

N

RUINS

LANE CLOSED
R11-2(MOD)
48" X 30"

NOTE:
FOR SIDEWALK CLOSURE USE STANDARD DETAIL DRAWING "TRAFFIC CONTROL, SIDEWALK CLOSURE"

FOR LANE CLOSURE
SEE CONSTRUCTION DETAIL SHEET

FOR LANE CLOSURE
SEE CONSTRUCTION DETAIL SHEET

R4-8
24" X 30"

BRADLEY ROAD

9+00'B'
10+00'B'
11+00'B'
12+00'B'

181+00
180+00
179+00
178+00

ONLY

12'
11'
10'
10'
16'
20'

50' (TYP)

LANE USED FOR RIGHT TURNS
FROM NORTHBOUND STH 181

RIGHT TURN LANE
R3-55R(MOD)
24" X 30"

R4-7
24" X 30"

STH 181 / 76TH STREET

CANOPY

WELL

WELL

WELL

LEGEND

- WORK ZONE
- TEMPORARY PAVEMENT
- TEMPORARY CROSSWALK ACCESS
- TEMPORARY BUS STOP PAD
- TEMPORARY PAVEMENT TO BE USED IN FUTURE STAGES
- SIGNAL CONTROLLED INTERSECTION
- TRAFFIC FLOW ARROW
- DRUM WITH/WITHOUT LIGHT, TYPE C
- FLEXIBLE TUBULAR MARKERS
- SIGN MOUNTED ON POST
- SIGN MOUNTED ON TEMPORARY SUPPORT
- TYPE III BARRICADE WITH/WITHOUT SIGN
- REMOVING PAVEMENT MARKINGS

PAVEMENT MARKING LEGEND

(14) TEMPORARY PAVEMENT MARKING
STOP LINE REMOVABLE TAPE 18-INCH

(16) TEMPORARY PAVEMENT MARKING
REMOVABLE TAPE 4-INCH (DOUBLE YELLOW)

PROJECT NO: 2140-08-73	HWY: STH 181-N. 76TH ST.	COUNTY: MILWAUKEE	CONSTRUCTION STAGING - STAGE 3 PHASE II	SHEET 519 E

2

2

N

NOTE:

FOR SIDEWALK CLOSURE USE STANDARD DETAIL DRAWING "TRAFFIC CONTROL, SIDEWALK CLOSURE"

END ROAD WORK
G20-2A
48" X 24"

ROAD WORK AHEAD
W20-1

63'

55'

DEAN RD

25' (TYP)

10+00'D'

11+00'D'

24' 00'D'

16

14

10'

10'

250'

ONLY

20+00

20+00

STH 181 / 76TH ST

ONLY

W01-6
48" X 24"

ROAD WORK AHEAD
W20-1

16

25' (TYP)

13+00'D'

14+00'D'

14

10'

10'

55'

65'

END ROAD WORK
G20-2A
48" X 24"

PAVEMENT MARKING LEGEND

(14) TEMPORARY PAVEMENT MARKING STOP LINE REMOVABLE TAPE 18-INCH

(16) TEMPORARY PAVEMENT MARKING REMOVABLE TAPE 4-INCH (DOUBLE YELLOW)

LEGEND

- WORK ZONE
- TEMPORARY PAVEMENT
- TEMPORARY CROSSWALK ACCESS
- TEMPORARY BUS STOP PAD
- TEMPORARY PAVEMENT TO BE USED IN FUTURE STAGES
- SIGNAL CONTROLLED INTERSECTION
- TRAFFIC FLOW ARROW
- DRUM WITH/WITHOUT LIGHT, TYPE C
- FLEXIBLE TUBULAR MARKERS
- SIGN MOUNTED ON POST
- SIGN MOUNTED ON TEMPORARY SUPPORT
- TYPE III BARRICADE WITH/WITHOUT SIGN
- REMOVING PAVEMENT MARKINGS

PROJECT NO: 2140-08-73	HWY: STH 181-N. 76TH ST.	COUNTY: MILWAUKEE	CONSTRUCTION STAGING - STAGE 3 PHASE 1	SHEET 520	E

2

N

NOTE:

FOR SIDEWALK CLOSURE USE STANDARD DETAIL DRAWING "TRAFFIC CONTROL, SIDEWALK CLOSURE"

END ROAD WORK
G20-2A
48" X 24"

ROAD WORK AHEAD
W20-1

63'

55'

11'

10+00'D'

11+00'D'

12+00'D'

13+00'D'

14+00'D'

25' (TYP)

DEAN RD

250'

W01-6
48" X 24"

ONLY

20+00

ONLY

STH 181 / 76TH ST

20+00

14+00

**

16

14

10'

55'

65'

** = AREA TO BE MAINTAINED AT ALL TIMES FOR TURNING MOVEMENTS EXCEPT FOR SPECIFIC WORK OPERATIONS IN THIS AREA

END ROAD WORK
G20-2A
48" X 24"

PAVEMENT MARKING LEGEND

(14) TEMPORARY PAVEMENT MARKING STOP LINE REMOVABLE TAPE 18-INCH

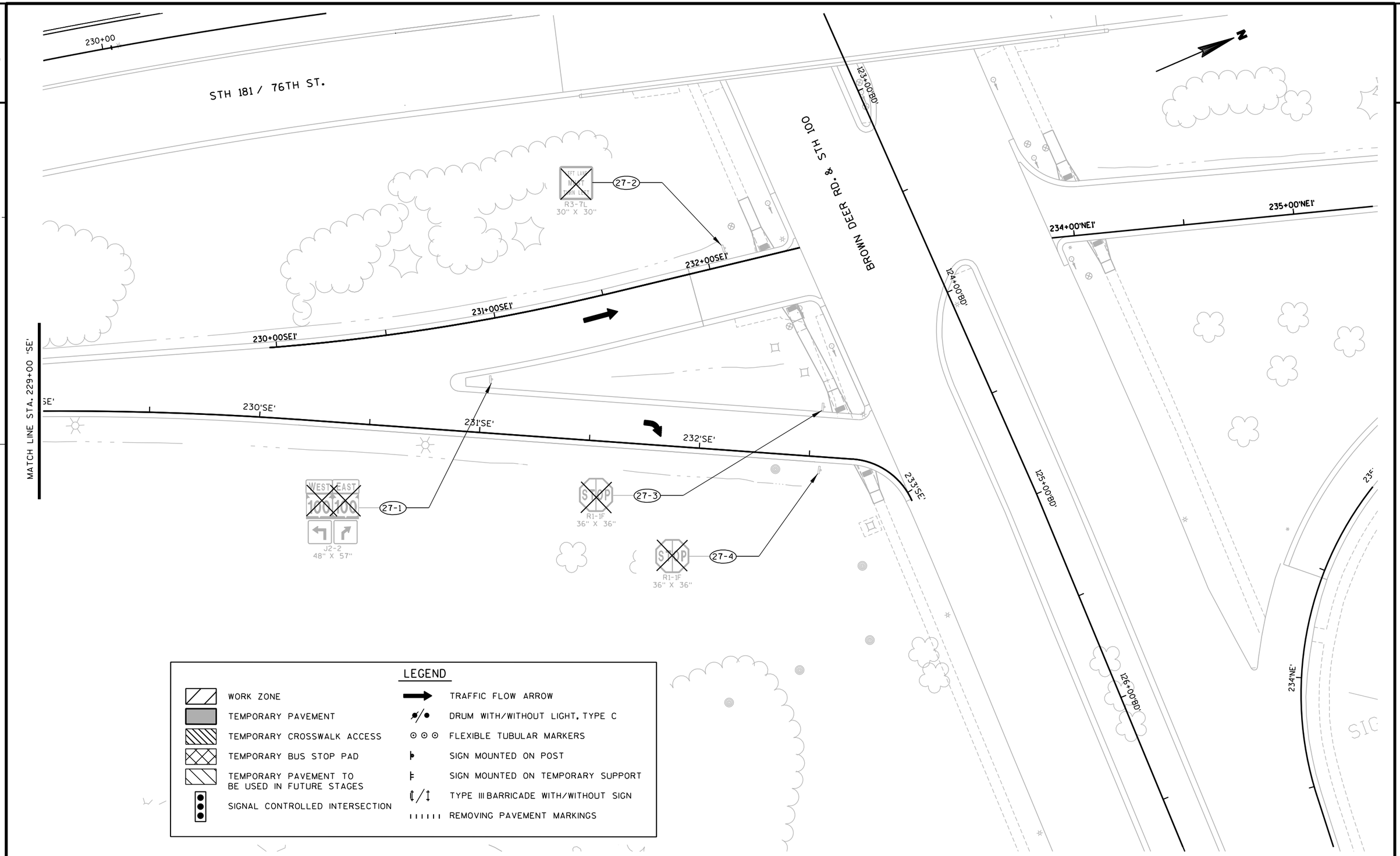
(16) TEMPORARY PAVEMENT MARKING REMOVABLE TAPE 4-INCH (DOUBLE YELLOW)

LEGEND

- WORK ZONE
- TEMPORARY PAVEMENT
- TEMPORARY CROSSWALK ACCESS
- TEMPORARY BUS STOP PAD
- TEMPORARY PAVEMENT TO BE USED IN FUTURE STAGES
- SIGNAL CONTROLLED INTERSECTION
- TRAFFIC FLOW ARROW
- DRUM WITH/WITHOUT LIGHT, TYPE C
- FLEXIBLE TUBULAR MARKERS
- SIGN MOUNTED ON POST
- SIGN MOUNTED ON TEMPORARY SUPPORT
- TYPE III BARRICADE WITH/WITHOUT SIGN
- REMOVING PAVEMENT MARKINGS

PROJECT NO: 2140-08-73	HWY: STH 181-N. 76TH ST.	COUNTY: MILWAUKEE	CONSTRUCTION STAGING - STAGE 3 PHASE II	SHEET 521	E

2



PROJECT NO: 2140-08-73	HWY: STH 181	COUNTY: MILWAUKEE	CONSTRUCTION STAGING - STAGE 3	SHEET 522	E

2

N

W. CLINTON

U/C

STH 181 / 76TH ST

11'

11'

11'

11'

135+00

136+00

137+00

138+00

139+00

MATCH LINE STA. 140+00

MH

FOR LANE CLOSURE
USE STANDARD DETAIL DRAWING
"TRAFFIC CONTROL SINGLE LANE CLOSURE, NON-FREEWAY/EXPRESSWAY"

LEGEND

- WORK ZONE
- TEMPORARY PAVEMENT
- TEMPORARY CROSSWALK ACCESS
- TEMPORARY BUS STOP PAD
- TEMPORARY PAVEMENT TO BE USED IN FUTURE STAGES
- SIGNAL CONTROLLED INTERSECTION
- TRAFFIC FLOW ARROW
- DRUM WITH/WITHOUT LIGHT, TYPE C
- FLEXIBLE TUBULAR MARKERS
- SIGN MOUNTED ON POST
- SIGN MOUNTED ON TEMPORARY SUPPORT
- TYPE III BARRICADE WITH/WITHOUT SIGN
- REMOVING PAVEMENT MARKINGS

PROJECT NO: 2140-08-73	HWY: STH 181-N. 76TH ST.	COUNTY: MILWAUKEE	CONSTRUCTION STAGING - STAGE 4	SHEET	E

FILE NAME : s:\@sdi\051--100\089\099\micros\design\0873\026301_s4.dgn PLOT DATE : 7/30/2007 PLOT BY : $$...plotuser...$$ PLOT NAME : PLOT SCALE : $$.....plotscale.....$$ WISDOT/CADDS SHEET 42

2

N

RUINS

STH 181 / 76TH ST

50' (TYP)

11'

11'

11'

11'

MATCH LINE STA. 140+00

141+00

142+00

143+00

144+00

145+00

146

MATCH LINE STA. 146+00

17

PLACED IN STAGE 3

LEGEND

- WORK ZONE
- TEMPORARY PAVEMENT
- TEMPORARY CROSSWALK ACCESS
- TEMPORARY BUS STOP PAD
- TEMPORARY PAVEMENT TO BE USED IN FUTURE STAGES
- SIGNAL CONTROLLED INTERSECTION
- TRAFFIC FLOW ARROW
- DRUM WITH/WITHOUT LIGHT, TYPE C
- FLEXIBLE TUBULAR MARKERS
- SIGN MOUNTED ON POST
- SIGN MOUNTED ON TEMPORARY SUPPORT
- TYPE III BARRICADE WITH/WITHOUT SIGN
- REMOVING PAVEMENT MARKINGS

PAVEMENT MARKING LEGEND

(17) PAVEMENT MARKING WET REFLECTIVE TAPE 4-INCH (DASHED WHITE)

PROJECT NO: 2140-08-73	HWY: STH 181-N. 76TH ST.	COUNTY: MILWAUKEE	CONSTRUCTION STAGING - STAGE 4 PHASE 1	SHEET 524	E

2

RUINS

N

17

MATCH LINE STA. 140+00

140+00

141+00

142+00

143+00

50' (TYP)

144+00

145+00

146

MATCH LINE STA. 146+00

LANE CLOSED
R11-2(MOD)
48" X 30"

STH 181 / 76TH ST

11'
11'
10'
11'
11'

17

PLACED IN STAGE 3

LEGEND

- WORK ZONE
- TEMPORARY PAVEMENT
- TEMPORARY CROSSWALK ACCESS
- TEMPORARY BUS STOP PAD
- TEMPORARY PAVEMENT TO BE USED IN FUTURE STAGES
- SIGNAL CONTROLLED INTERSECTION
- TRAFFIC FLOW ARROW
- DRUM WITH/WITHOUT LIGHT, TYPE C
- FLEXIBLE TUBULAR MARKERS
- SIGN MOUNTED ON POST
- SIGN MOUNTED ON TEMPORARY SUPPORT
- TYPE III BARRICADE WITH/WITHOUT SIGN
- REMOVING PAVEMENT MARKINGS

PAVEMENT MARKING LEGEND

(17) PAVEMENT MARKING WET REFLECTIVE TAPE 4-INCH (DASHED WHITE)

PROJECT NO: 2140-08-73	HWY: STH 181-N. 76TH ST.	COUNTY: MILWAUKEE	CONSTRUCTION STAGING - STAGE 4 PHASE II	SHEET 525	E

PAVEMENT MARKING LEGEND

⑩ TEMPORARY PAVEMENT MARKING WORDS REMOVABLE TAPE (TYP)

⑫ TEMPORARY PAVEMENT MARKING REMOVABLE TAPE 8-INCH (CHANNELIZING)

⑰ PAVEMENT MARKING WET REFLECTIVE TAPE 4-INCH (DASHED WHITE)

N

SPEED LIMIT 40 R2-1 24" X 30"

2-5

LEFT TURN LANE R3-55L 24" X 30"

⑰

11'

11'

50' (TYP)

MATCH LINE STA. 146+00

147+00

148+00

149+00

150+00

151+00

152

MATCH LINE STA. 152+00

11'

11'

STH 181 / 76TH ST

25' (TYP)

LANE

⑫

⑩

110'

100'

⑰

PLACED IN STAGE 3

MOVE SIGN TO HERE

2-8

CALUMET RD 7600 N

MI-94A XX" X 24"

EXISTING SIGN TO BE MOVED

CALUMET RD 7600 N

2-8

MI-94A XX" X 24"

LEFT TURN LANE R3-55L 24" X 30"

LEGEND

- WORK ZONE
- TEMPORARY PAVEMENT
- TEMPORARY CROSSWALK ACCESS
- TEMPORARY BUS STOP PAD
- TEMPORARY PAVEMENT TO BE USED IN FUTURE STAGES
- SIGNAL CONTROLLED INTERSECTION
- TRAFFIC FLOW ARROW
- DRUM WITH/WITHOUT LIGHT, TYPE C
- FLEXIBLE TUBULAR MARKERS
- SIGN MOUNTED ON POST
- SIGN MOUNTED ON TEMPORARY SUPPORT
- TYPE III BARRICADE WITH/WITHOUT SIGN
- REMOVING PAVEMENT MARKINGS

PROJECT NO: 2140-08-73	HWY: STH 181-N. 76TH ST.	COUNTY: MILWAUKEE	CONSTRUCTION STAGING - STAGE 4	SHEET	E

FILE NAME : s:\@sai\051--100\089\099\micros\design\0873\026303_s4.dgn PLOT DATE : 7/30/2007 PLOT BY : $$...plotuser...$$ PLOT NAME : PLOT SCALE : $$.....plotscale.....$$ WISDOT/CADDS SHEET 42

2

LEGEND

- WORK ZONE
- TEMPORARY PAVEMENT
- TEMPORARY CROSSWALK ACCESS
- TEMPORARY BUS STOP PAD
- TEMPORARY PAVEMENT TO BE USED IN FUTURE STAGES
- SIGNAL CONTROLLED INTERSECTION
- TRAFFIC FLOW ARROW
- DRUM WITH/WITHOUT LIGHT, TYPE C
- FLEXIBLE TUBULAR MARKERS
- SIGN MOUNTED ON POST
- SIGN MOUNTED ON TEMPORARY SUPPORT
- TYPE III BARRICADE WITH/WITHOUT SIGN
- REMOVING PAVEMENT MARKINGS

N

MATCH LINE STA. 152+00

MATCH LINE STA. 158+00

11+00C'

11+00C'

3-3 STOP R1-1F 30" X 30"

3-9 STOP R1-1F 30" X 30"

**

LANE CLOSED R11-2(MOD) 48" X 30"

LEFT TURN LANE R3-5L 24" X 30"

100'

110'

50' (TYP)

25' (TYP)

11'

11'

11'

11'

152+00

153+00

154+00

155+00

156+00

157+00

158

STH 181 / 76TH ST

CALUMET

100'

3-11 STOP R1-1F 30" X 30"

3-1 STOP R1-1F 30" X 30"

3-4 STOP R1-1F 30" X 30"

3-8 STOP R1-1F 30" X 30"

3-18 W3-3 36" X 36"

PLACED IN STAGE 3

** = AREA TO BE MAINTAINED AT ALL TIMES FOR TURNING MOVEMENTS EXCEPT FOR SPECIFIC WORK OPERATIONS IN THIS AREA

PAVEMENT MARKING LEGEND

- (8) TEMPORARY PAVEMENT MARKING ARROWS REMOVABLE TAPE (TYP)
- (10) TEMPORARY PAVEMENT MARKING WORDS REMOVABLE TAPE (TYP)
- (12) TEMPORARY PAVEMENT MARKING REMOVABLE TAPE 8-INCH (CHANNELIZING)
- (14) TEMPORARY PAVEMENT MARKING STOP LINE REMOVABLE TAPE 18-INCH
- (17) PAVEMENT MARKING WET REFLECTIVE TAPE 4-INCH (DASHED WHITE)

PROJECT NO: 2140-08-73	HWY: STH 181-N. 76TH ST.	COUNTY: MILWAUKEE	CONSTRUCTION STAGING - STAGE 4 PHASE 1	SHEET 527	E

2

N

MATCH LINE STA. 152+00

MATCH LINE STA. 158+00

STH 181 / 76TH ST

CALUMET

100'

110'

50' (TYP)

25' (TYP)

25' (TYP)

154+00

155+00

156+00

157+00

158

10'-0"

11'

11'

11'

11'

LEFT TURN LANE
R3-55L
24" X 30"

LEFT TURN LANE
R3-55L
24" X 30"

LANE CLOSED
R11-2(MOD)
48" X 30"

R3-2
24" X 24"

PLACED IN STAGE 3

AREA TO BE MAINTAINED AT ALL TIMES FOR LEFT TURN MOVEMENT EXCEPT FOR SPECIFIC CONSTRUCTION OPERATIONS IN THIS AREA AS DISCUSSED IN THE SPECIAL PROVISIONS.

* TRAFFIC CONTROL SIGNS/DRUMS/BARRICADES SHALL BE IN PLACE WHEN LEFT TURN LANE IS UNAVAILABLE.

** = AREA TO BE MAINTAINED AT ALL TIMES FOR TURNING MOVEMENTS EXCEPT FOR SPECIFIC WORK OPERATIONS IN THIS AREA

PAVEMENT MARKING LEGEND

(8) TEMPORARY PAVEMENT MARKING ARROWS REMOVABLE TAPE (TYP)

(4) TEMPORARY PAVEMENT MARKING REMOVABLE TAPE 4-INCH (WHITE)

(10) TEMPORARY PAVEMENT MARKING WORDS REMOVABLE TAPE (TYP)

(12) TEMPORARY PAVEMENT MARKING REMOVABLE TAPE 8-INCH (CHANNELIZING)

(14) TEMPORARY PAVEMENT MARKING STOP LINE REMOVABLE TAPE 18-INCH

(17) PAVEMENT MARKING WET REFLECTIVE TAPE 4-INCH (DASHED WHITE)

LEGEND

- WORK ZONE
- TEMPORARY PAVEMENT
- TEMPORARY CROSSWALK ACCESS
- TEMPORARY BUS STOP PAD
- TEMPORARY PAVEMENT TO BE USED IN FUTURE STAGES
- SIGNAL CONTROLLED INTERSECTION
- TRAFFIC FLOW ARROW
- DRUM WITH/WITHOUT LIGHT, TYPE C
- FLEXIBLE TUBULAR MARKERS
- SIGN MOUNTED ON POST
- SIGN MOUNTED ON TEMPORARY SUPPORT
- TYPE III BARRICADE WITH/WITHOUT SIGN
- REMOVING PAVEMENT MARKINGS

PROJECT NO: 2140-08-73	HWY: STH 181-N. 76TH ST.	COUNTY: MILWAUKEE	CONSTRUCTION STAGING - STAGE 4 PHASE II	SHEET 528	E

2

ROAD WORK AHEAD W20-1

END ROAD WORK G20-2A 48" X 24"

N

CALUMET

11+00 CT.

* ALL PAVEMENT MARKINGS PERMANENT.

STH 181 / 76TH ST

MATCH LINE STA. 152+00

153+00

154+00

155+00

156+00

157+00

158

MATCH LINE STA. 158+00

10+00 CT.

11+00 CT.

CALUMET

END ROAD WORK G20-2A 48" X 24"

ROAD WORK AHEAD W20-1

LEGEND

- WORK ZONE
- TEMPORARY PAVEMENT
- TEMPORARY CROSSWALK ACCESS
- TEMPORARY BUS STOP PAD
- TEMPORARY PAVEMENT TO BE USED IN FUTURE STAGES
- SIGNAL CONTROLLED INTERSECTION
- TRAFFIC FLOW ARROW
- DRUM WITH/WITHOUT LIGHT, TYPE C
- FLEXIBLE TUBULAR MARKERS
- SIGN MOUNTED ON POST
- SIGN MOUNTED ON TEMPORARY SUPPORT
- TYPE III BARRICADE WITH/WITHOUT SIGN
- REMOVING PAVEMENT MARKINGS

PROJECT NO: 2140-08-73	HWY: STH 181-N. 76TH ST.	COUNTY: MILWAUKEE	CONSTRUCTION STAGING - STAGE 4 PHASE III	SHEET 529	E

2

MOVE SIGN TO HERE

4-2 CALUMET RD 7600 N M1-94A

PAVEMENT MARKING LEGEND

(17) PAVEMENT MARKING WET REFLECTIVE TAPE 4-INCH (DASHED WHITE)

STH 181 / 76TH ST

11'

11'

50' (TYP)

MATCH LINE STA. 158+00

159+00

160+00

161+00

162+00

163+00

164+00

MATCH LINE STA. 164+00

EXISTING SIGN TO BE MOVED

4-2 CALUMET RD 7600 N M1-94A

PLACED IN STAGE 3

LEGEND

- WORK ZONE
- TEMPORARY PAVEMENT
- TEMPORARY CROSSWALK ACCESS
- TEMPORARY BUS STOP PAD
- TEMPORARY PAVEMENT TO BE USED IN FUTURE STAGES
- SIGNAL CONTROLLED INTERSECTION
- TRAFFIC FLOW ARROW
- DRUM WITH/WITHOUT LIGHT, TYPE C
- FLEXIBLE TUBULAR MARKERS
- SIGN MOUNTED ON POST
- SIGN MOUNTED ON TEMPORARY SUPPORT
- TYPE III BARRICADE WITH/WITHOUT SIGN
- REMOVING PAVEMENT MARKINGS

PROJECT NO: 2140-08-73	HWY: STH 181-N. 76TH ST.	COUNTY: MILWAUKEE	CONSTRUCTION STAGING - STAGE 4	SHEET 530	E

2

CANOPY

A/C

N

PAVEMENT MARKING LEGEND

(17) PAVEMENT MARKING WET REFLECTIVE TAPE 4-INCH (DASHED WHITE)

LANE CLOSED
R11-2(MOD)
48" X 30"

(17)

11'
11'

STH 181 / 76TH ST

50' (TYP)

MATCH LINE STA. 164+00

00 165+00 166+00 167+00 168+00 169+00 170

MATCH LINE STA. 170+00

11'
11'

PLACED IN STAGE 3

(17)

SPEED LIMIT 40 R2-1 24" X 30"

5-5

LEGEND

- WORK ZONE
- TEMPORARY PAVEMENT
- TEMPORARY CROSSWALK ACCESS
- TEMPORARY BUS STOP PAD
- TEMPORARY PAVEMENT TO BE USED IN FUTURE STAGES
- SIGNAL CONTROLLED INTERSECTION
- TRAFFIC FLOW ARROW
- DRUM WITH/WITHOUT LIGHT, TYPE C
- FLEXIBLE TUBULAR MARKERS
- SIGN MOUNTED ON POST
- SIGN MOUNTED ON TEMPORARY SUPPORT
- TYPE III BARRICADE WITH/WITHOUT SIGN
- REMOVING PAVEMENT MARKINGS

PROJECT NO: 2140-08-73	HWY: STH 181-N. 76TH ST.	COUNTY: MILWAUKEE	CONSTRUCTION STAGING - STAGE 4 PHASE 1	SHEET 531	E

2

CANOPY

A/C

N

PAVEMENT MARKING LEGEND

(17) PAVEMENT MARKING WET REFLECTIVE TAPE 4-INCH (DASHED WHITE)

MATCH LINE STA. 164+00

STH 181 / 76TH ST

11'

11'

11'

11'

165+00

166+00

167+00

168+00

LANE CLOSED

R11-2(MOD)
48" X 30"

50' (TYP)

169+00

170

MATCH LINE STA. 170+00

(17)

(17)

PLACED IN STAGE 3

LEGEND

- WORK ZONE
- TEMPORARY PAVEMENT
- TEMPORARY CROSSWALK ACCESS
- TEMPORARY BUS STOP PAD
- TEMPORARY PAVEMENT TO BE USED IN FUTURE STAGES
- SIGNAL CONTROLLED INTERSECTION
- TRAFFIC FLOW ARROW
- DRUM WITH/WITHOUT LIGHT, TYPE C
- FLEXIBLE TUBULAR MARKERS
- SIGN MOUNTED ON POST
- SIGN MOUNTED ON TEMPORARY SUPPORT
- TYPE III BARRICADE WITH/WITHOUT SIGN
- REMOVING PAVEMENT MARKINGS

PROJECT NO: 2140-08-73	HWY: STH 181-N. 76TH ST.	COUNTY: MILWAUKEE	CONSTRUCTION STAGING - STAGE 4 PHASE II	SHEET 532	E

2

EXISTING SIGN TO BE MOVED

SPEED LIMIT 40
R2-1
24" X 30"

6-3

MOVE SIGN TO HERE

6-3

SPEED LIMIT 40
R2-1
24" X 30"

ROAD WORK AHEAD
W20-1

250'

A/C

END ROAD WORK
G20-2A
48" X 24"

N

LOLITA AVE

PAVEMENT MARKING LEGEND

(17) PAVEMENT MARKING WET REFLECTIVE TAPE 4-INCH (DASHED WHITE)

9+00'F'

8+00'F'

STH 181 / 76TH ST

11'

11'

LANE CLOSED
R11-2(MOD)
48" X 30"

50' (TYP)

MATCH LINE STA. 170+00

170+00

171+00

172+00

173+00

174+00

175+00

176

MATCH LINE STA. 176+00

11'

11'

PLACED IN STAGE 3

(17)

EXISTING SIGN TO BE MOVED

6-1

Bradley Rd
8000 N
M1-94A

MOVE SIGN TO HERE

6-1

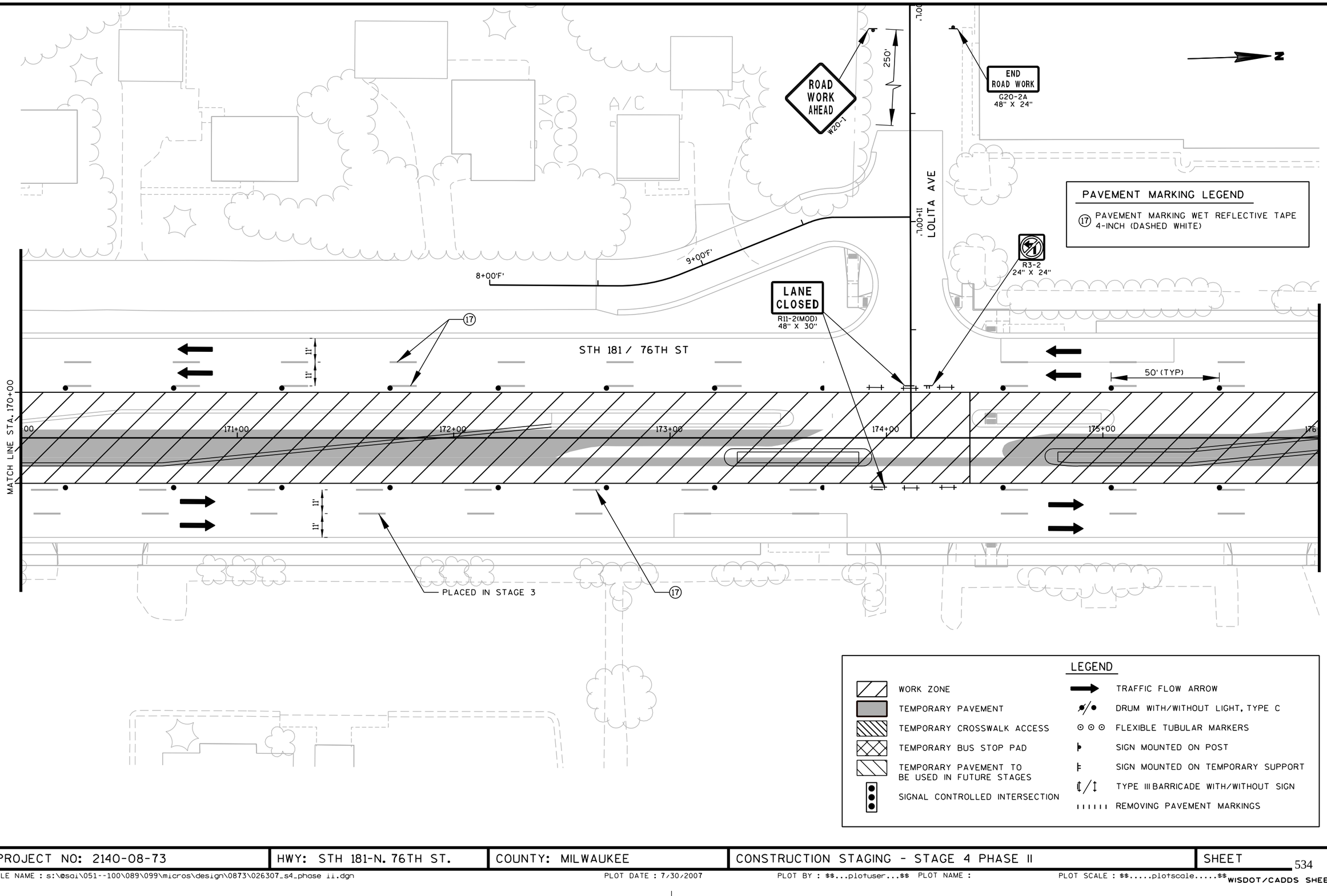
Bradley Rd
8000 N
M1-94A

LEGEND

- WORK ZONE
- TEMPORARY PAVEMENT
- TEMPORARY CROSSWALK ACCESS
- TEMPORARY BUS STOP PAD
- TEMPORARY PAVEMENT TO BE USED IN FUTURE STAGES
- SIGNAL CONTROLLED INTERSECTION
- TRAFFIC FLOW ARROW
- DRUM WITH/WITHOUT LIGHT, TYPE C
- FLEXIBLE TUBULAR MARKERS
- SIGN MOUNTED ON POST
- SIGN MOUNTED ON TEMPORARY SUPPORT
- TYPE III BARRICADE WITH/WITHOUT SIGN
- REMOVING PAVEMENT MARKINGS

PROJECT NO: 2140-08-73	HWY: STH 181-N. 76TH ST.	COUNTY: MILWAUKEE	CONSTRUCTION STAGING - STAGE 4 PHASE 1	SHEET 533	E

2



PROJECT NO: 2140-08-73	HWY: STH 181-N. 76TH ST.	COUNTY: MILWAUKEE	CONSTRUCTION STAGING - STAGE 4 PHASE II	SHEET 534	E

* TRAFFIC CONTROL SIGNS/DRUMS/BARRICADES SHALL BE IN PLACE WHEN LEFT TURN LANE IS UNAVAILABLE.

AREA TO BE MAINTAINED AT ALL TIMES FOR LEFT TURN MOVEMENT EXCEPT FOR SPECIFIC CONSTRUCTION OPERATIONS IN THIS AREA AS DISCUSSED IN THE SPECIAL PROVISIONS.

BRADLEY

RUINS

STH 181 / 76TH ST

MATCH LINE STA. 176+00

MATCH LINE STA. 182+00

LANE CLOSED
R11-2(MOD)
48" X 30"

SPEED LIMIT 40
R2-1
24" X 30"

SOUTH 181
M1-1
24" X 39"

M 3-3
24" X 18"
M1-6
24" X 24"

STOP
R1-1F
30" X 30"

LEFT TURN LANE
R3-55L
24" X 30"

R3-2
24" X 24"

7-2, 7-4, 7-6, 7-8, 7-9, 7-10, 7-12, 7-14, 7-15, 7-18

11'

50' (TYP)

25' (TYP)

100'

110'

177+00, 178+00, 179+00, 180+00, 181+00, 182+00

18.00+10

18.00+11

PLACED IN STAGE 3

** = AREA TO BE MAINTAINED AT ALL TIMES FOR TURNING MOVEMENTS EXCEPT FOR SPECIFIC WORK OPERATIONS IN THIS AREA

LEGEND

- WORK ZONE
- TEMPORARY PAVEMENT
- TEMPORARY CROSSWALK ACCESS
- TEMPORARY BUS STOP PAD
- TEMPORARY PAVEMENT TO BE USED IN FUTURE STAGES
- SIGNAL CONTROLLED INTERSECTION
- TRAFFIC FLOW ARROW
- DRUM WITH/WITHOUT LIGHT, TYPE C
- FLEXIBLE TUBULAR MARKERS
- SIGN MOUNTED ON POST
- SIGN MOUNTED ON TEMPORARY SUPPORT
- TYPE III BARRICADE WITH/WITHOUT SIGN
- REMOVING PAVEMENT MARKINGS

PAVEMENT MARKING LEGEND

- (8) TEMPORARY PAVEMENT MARKING ARROWS REMOVABLE TAPE (TYP)
- (10) TEMPORARY PAVEMENT MARKING WORDS REMOVABLE TAPE (TYP)
- (12) TEMPORARY PAVEMENT MARKING CHANNELIZING REMOVABLE TAPE 8-INCH
- (14) TEMPORARY PAVEMENT MARKING STOP LINE REMOVABLE TAPE 18-INCH
- (17) PAVEMENT MARKING WET REFLECTIVE TAPE 4-INCH (DASHED WHITE)

PROJECT NO: 2140-08-73	HWY: STH 181-N. 76TH ST.	COUNTY: MILWAUKEE	CONSTRUCTION STAGING - STAGE 4 PHASE I	SHEET 535	E

2

N

BRADLEY

CANOPY

RUINS

** = AREA TO BE MAINTAINED AT ALL TIMES FOR TURNING MOVEMENTS EXCEPT FOR SPECIFIC WORK OPERATIONS IN THIS AREA

**

LANE CLOSED
R11-2(MOD)
48" X 30"

LEFT TURN LANE
R3-55L
24" X 30"

11'
11'
11'
11'

50' (TYP)
25' (TYP)
100'
110'
100'
110'
25' (TYP)

MATCH LINE STA. 176+00

177+00
178+00
179+00
180+00
181+00
182

MATCH LINE STA. 182+00

STH 181 / 76TH ST

PLACED IN STAGE 3

LEGEND

- WORK ZONE
- TEMPORARY PAVEMENT
- TEMPORARY CROSSWALK ACCESS
- TEMPORARY BUS STOP PAD
- TEMPORARY PAVEMENT TO BE USED IN FUTURE STAGES
- SIGNAL CONTROLLED INTERSECTION
- TRAFFIC FLOW ARROW
- DRUM WITH/WITHOUT LIGHT, TYPE C
- FLEXIBLE TUBULAR MARKERS
- SIGN MOUNTED ON POST
- SIGN MOUNTED ON TEMPORARY SUPPORT
- TYPE III BARRICADE WITH/WITHOUT SIGN
- REMOVING PAVEMENT MARKINGS

PAVEMENT MARKING LEGEND

- (8) TEMPORARY PAVEMENT MARKING ARROWS REMOVABLE TAPE (TYP)
- (10) TEMPORARY PAVEMENT MARKING WORDS REMOVABLE TAPE (TYP)
- (12) TEMPORARY PAVEMENT MARKING CHANNELIZING REMOVABLE TAPE 8-INCH
- (14) TEMPORARY PAVEMENT MARKING STOP LINE REMOVABLE TAPE 18-INCH
- (17) PAVEMENT MARKING WET REFLECTIVE TAPE 4-INCH (DASHED WHITE)

PROJECT NO: 2140-08-73	HWY: STH 181-N. 76TH ST.	COUNTY: MILWAUKEE	CONSTRUCTION STAGING - STAGE 4 PHASE II	SHEET 536	E

2

MOVE SIGNS TO HERE

8-3 JCT M2-1 21" X 15"

8-4 Bradley Rd 8000 N M1-94A

ROAD WORK AHEAD W20-1

250'

EXISTING SIGNS TO BE MOVED

8-3 JCT M2-1 21" X 15"

8-4 Bradley Rd 8000 N M1-94A

8-10 STOP R1-1F 30" X 30"

LEFT TURN LANE R3-55L 24" X 30"

END ROAD WORK G20-2A 48" X 24"

TOWER AVE

11+00'T.

00'T.

8-14 STOP R1-1F 30" X 30"

100'

110'

STH 181 / 76TH ST

50'(TYP)

11'

11'

25'(TYP)

MATCH LINE STA. 182+00

183+00

184+00

185+00

186+00

187+00

MATCH LINE STA. 188+00

LANE CLOSED R11-2(MOD) 48" X 30"

PLACED IN STAGE 3

LEFT TURN LANE R3-55L 24" X 30"

8-9 STOP R1-1F 30" X 30"

8-7 STOP R1-1F 30" X 30"

8-12 STOP R1-1F 30" X 30"

PAVEMENT MARKING LEGEND

(8) TEMPORARY PAVEMENT MARKING ARROWS REMOVABLE TAPE (TYP)

(10) TEMPORARY PAVEMENT MARKING WORDS REMOVABLE TAPE (TYP)

(12) TEMPORARY PAVEMENT MARKING CHANNELIZING REMOVABLE TAPE 8-INCH

(14) TEMPORARY PAVEMENT MARKING STOP LINE REMOVABLE TAPE 18-INCH

(17) PAVEMENT MARKING WET REFLECTIVE TAPE 4-INCH (DASHED WHITE)

(25) PAVEMENT MARKING GROOVED WET REFLECTIVE TAPE 4-INCH (DASHED WHITE)

LEGEND

- WORK ZONE
- TEMPORARY PAVEMENT
- TEMPORARY CROSSWALK ACCESS
- TEMPORARY BUS STOP PAD
- TEMPORARY PAVEMENT TO BE USED IN FUTURE STAGES
- SIGNAL CONTROLLED INTERSECTION
- TRAFFIC FLOW ARROW
- DRUM WITH/WITHOUT LIGHT, TYPE C
- FLEXIBLE TUBULAR MARKERS
- SIGN MOUNTED ON POST
- SIGN MOUNTED ON TEMPORARY SUPPORT
- TYPE III BARRICADE WITH/WITHOUT SIGN
- REMOVING PAVEMENT MARKINGS

PROJECT NO: 2140-08-73	HWY: STH 181-N. 76TH ST.	COUNTY: MILWAUKEE	CONSTRUCTION STAGING - STAGE 4	SHEET 537	E

2

N

MOVE SIGN TO HERE

9-6

W5-52L
12" X 36"

EXISTING SIGN TO MOVE

9-6

W5-52L
12" X 36"

PAVEMENT MARKING LEGEND

(17) PAVEMENT MARKING WET REFLECTIVE TAPE 4-INCH (DASHED WHITE)

(25) PAVEMENT MARKING GROOVED WET REFLECTIVE TAPE 4-INCH (DASHED WHITE)

LEFT TURN LANE

R3-55L
24" X 30"

110'

17

25' (TYP)

11'

11'

STH 181 / 76TH ST

50' (TYP)

MATCH LINE STA. 188+00

189+00

190+00

191+00

192+00

193+00

194

MATCH LINE STA. 194+00

11'

11'

25

PLACED IN STAGE 3

9-1

36" X 36"

LEGEND

- WORK ZONE
- TEMPORARY PAVEMENT
- TEMPORARY CROSSWALK ACCESS
- TEMPORARY BUS STOP PAD
- TEMPORARY PAVEMENT TO BE USED IN FUTURE STAGES
- SIGNAL CONTROLLED INTERSECTION
- TRAFFIC FLOW ARROW
- DRUM WITH/WITHOUT LIGHT, TYPE C
- FLEXIBLE TUBULAR MARKERS
- SIGN MOUNTED ON POST
- SIGN MOUNTED ON TEMPORARY SUPPORT
- TYPE III BARRICADE WITH/WITHOUT SIGN
- REMOVING PAVEMENT MARKINGS

PROJECT NO: 2140-08-73	HWY: STH 181-N. 76TH ST.	COUNTY: MILWAUKEE	CONSTRUCTION STAGING - STAGE 4	SHEET 538	E

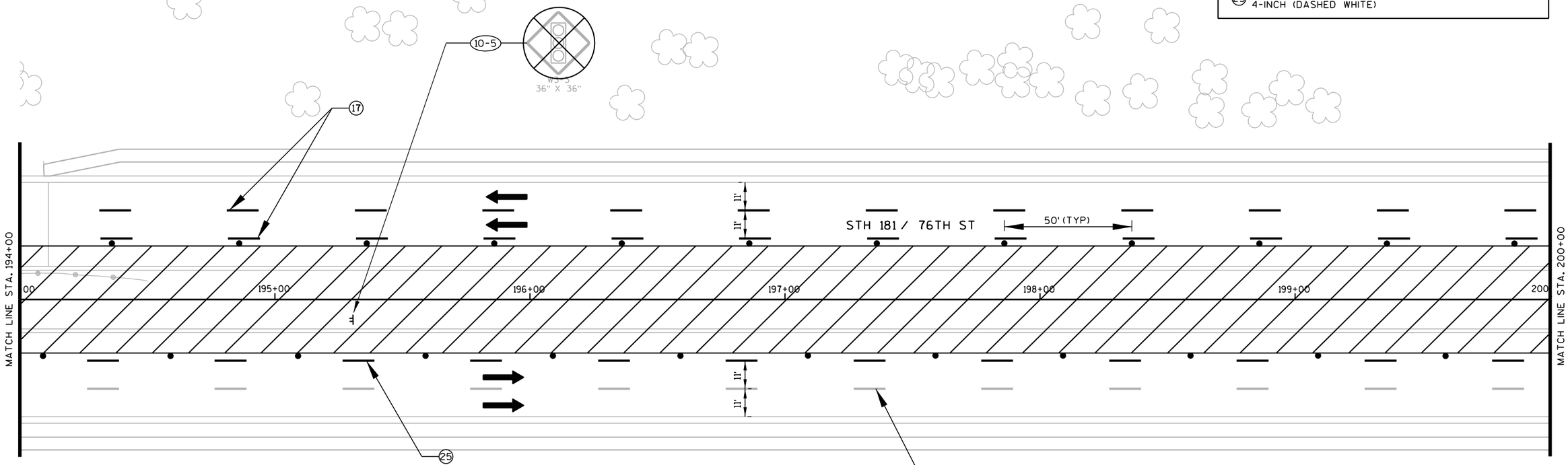
2

N

PAVEMENT MARKING LEGEND

(17) PAVEMENT MARKING EPOXY 4-INCH (DASHED WHITE)

(25) PAVEMENT MARKING GROOVED WET REFLECTIVE TAPE 4-INCH (DASHED WHITE)



LEGEND

- WORK ZONE
- TEMPORARY PAVEMENT
- TEMPORARY CROSSWALK ACCESS
- TEMPORARY BUS STOP PAD
- TEMPORARY PAVEMENT TO BE USED IN FUTURE STAGES
- SIGNAL CONTROLLED INTERSECTION
- TRAFFIC FLOW ARROW
- DRUM WITH/WITHOUT LIGHT, TYPE C
- FLEXIBLE TUBULAR MARKERS
- SIGN MOUNTED ON POST
- SIGN MOUNTED ON TEMPORARY SUPPORT
- TYPE III BARRICADE WITH/WITHOUT SIGN
- REMOVING PAVEMENT MARKINGS

PROJECT NO: 2140-08-73	HWY: STH 181-N. 76TH ST.	COUNTY: MILWAUKEE	CONSTRUCTION STAGING - STAGE 4	SHEET 539	E

2

PAVEMENT MARKING LEGEND

- (8) TEMPORARY PAVEMENT MARKING ARROWS REMOVABLE TAPE (TYP)
- (10) TEMPORARY PAVEMENT MARKING WORDS REMOVABLE TAPE (TYP)
- (12) TEMPORARY PAVEMENT MARKING CHANNELIZING REMOVABLE TAPE 8-INCH
- (14) TEMPORARY PAVEMENT MARKING STOP LINE REMOVABLE TAPE 18-INCH
- (17) PAVEMENT MARKING WET REFLECTIVE TAPE 4-INCH (DASHED WHITE)
- (25) PAVEMENT MARKING GROOVED WET REFLECTIVE TAPE 4-INCH (DASHED WHITE)

N

* TRAFFIC CONTROL SIGNS/DRUMS/BARRICADES SHALL BE IN PLACE WHEN LEFT TURN LANE IS UNAVAILABLE.

MOVE SIGN TO HERE

SPEED LIMIT 40 — 11-8
R2-1
24" X 30"

STOP — 11-16
R1-1F
30" X 30"

STOP — 11-15
R1-1F
30" X 30"

DEAN RD

LANE CLOSED
R11-2(MOD)
48" X 30"

STH 181 / 76TH ST

MATCH LINE STA. 200+00

200+00 201+00 202+00 203+00 204+00 205+00 206

MATCH LINE STA. 206+00

11' 11' 11' 11'

50' (TYP)

25' (TYP)

17

PLACED IN STAGE 3

25

LEFT TURN LANE
R3-55L
24" X 30"

110' 100'

10 12 8 14

STOP — 11-13
R1-1F
30" X 30"

EXISTING SIGN TO BE MOVED

SPEED LIMIT 40 — 11-8
R2-1
24" X 30"

LEGEND

- WORK ZONE
- TEMPORARY PAVEMENT
- TEMPORARY CROSSWALK ACCESS
- TEMPORARY BUS STOP PAD
- TEMPORARY PAVEMENT TO BE USED IN FUTURE STAGES
- SIGNAL CONTROLLED INTERSECTION
- TRAFFIC FLOW ARROW
- DRUM WITH/WITHOUT LIGHT, TYPE C
- FLEXIBLE TUBULAR MARKERS
- SIGN MOUNTED ON POST
- SIGN MOUNTED ON TEMPORARY SUPPORT
- TYPE III BARRICADE WITH/WITHOUT SIGN
- REMOVING PAVEMENT MARKINGS

PROJECT NO: 2140-08-73	HWY: STH 181-N. 76TH ST.	COUNTY: MILWAUKEE	CONSTRUCTION STAGING - STAGE 4	SHEET 540 E

2

PAVEMENT MARKING LEGEND

- (8) TEMPORARY PAVEMENT MARKING ARROWS REMOVABLE TAPE (TYP)
- (10) TEMPORARY PAVEMENT MARKING WORDS REMOVABLE TAPE (TYP)
- (12) TEMPORARY PAVEMENT MARKING CHANNELIZING REMOVABLE TAPE 8-INCH
- (14) TEMPORARY PAVEMENT MARKING STOP LINE REMOVABLE TAPE 18-INCH
- (17) PAVEMENT MARKING WET REFLECTIVE TAPE 4-INCH (DASHED WHITE)
- (25) PAVEMENT MARKING GROOVED WET REFLECTIVE TAPE 4-INCH (DASHED WHITE)

MATCH LINE STA. 206+00

MATCH LINE STA. 212+00

DEAN RD

STH 181 / 76TH ST

11+00'

12-3 R1-1F 30" X 30"

100'

110'

25' (TYP)

50' (TYP)

12'

12'

12'

12'

207+00

208+00

209+00

210+00

211+00

212+00

LEFT TURN LANE R3-55L 24" X 30"

14 8 12 10 17

25

PLACED IN STAGE 3

EXISTING SIGN TO BE MOVED

12-8 W11-2 30" X 30"

12-6 R1-1F 30" X 30"

MOVE SIGN TO HERE

12-8 W11-2 30" X 30"

MOVE SIGN TO HERE

M 2-1 M1-6 JCT 100 21" X 15" J1-1 24" X 39"

12-10

EXISTING SIGN TO BE MOVED

12-10 JCT 100 M 2-1 M1-6 21" X 15" J1-1 24" X 39"

12-11 Brown Deer Rd 8800 N M1-94A

12-1 R1-1F 30" X 30"

LEGEND

- WORK ZONE
- TEMPORARY PAVEMENT
- TEMPORARY CROSSWALK ACCESS
- TEMPORARY BUS STOP PAD
- TEMPORARY PAVEMENT TO BE USED IN FUTURE STAGES
- SIGNAL CONTROLLED INTERSECTION
- TRAFFIC FLOW ARROW
- DRUM WITH/WITHOUT LIGHT, TYPE C
- FLEXIBLE TUBULAR MARKERS
- SIGN MOUNTED ON POST
- SIGN MOUNTED ON TEMPORARY SUPPORT
- TYPE III BARRICADE WITH/WITHOUT SIGN
- REMOVING PAVEMENT MARKINGS

PROJECT NO: 2140-08-73	HWY: STH 181-N. 76TH ST.	COUNTY: MILWAUKEE	CONSTRUCTION STAGING - STAGE 4	SHEET 541	E

2

2

PAVEMENT MARKING LEGEND

(8) TEMPORARY PAVEMENT MARKING ARROWS REMOVABLE TAPE (TYP)

(10) TEMPORARY PAVEMENT MARKING WORDS REMOVABLE TAPE (TYP)

(12) TEMPORARY PAVEMENT MARKING CHANNELIZING REMOVABLE TAPE 8-INCH

(17) PAVEMENT MARKING WET REFLECTIVE TAPE 4-INCH (DASHED WHITE)

(25) PAVEMENT MARKING GROOVED WET REFLECTIVE TAPE 4-INCH (DASHED WHITE)

SPEED LIMIT 45 R2-1 24" X 30"

13-14

LEFT TURN LANE R3-55L(MOD) 24" X 30"

PLACED IN STAGE 3

MATCH LINE STA. 212+00

MATCH LINE STA. 218+00

00 213+00 214+00 215+00 216+00 217+00 218

218'S

8 12 10

25' (TYP)

12' 12' 12' 12'

50' (TYP)

LANE CLOSED R11-2(MOD) 48" X 30"

25

110'

MOVE SIGN TO HERE

13-2

W3-3 36" X 36"

EXISTING SIGN TO BE MOVED

13-2

W3-3 36" X 36"

ROAD WORK AHEAD W20-1

76TH PLACE

END ROAD WORK G20-2A 48" X 24"

LEGEND

- WORK ZONE
- TEMPORARY PAVEMENT
- TEMPORARY CROSSWALK ACCESS
- TEMPORARY BUS STOP PAD
- TEMPORARY PAVEMENT TO BE USED IN FUTURE STAGES
- SIGNAL CONTROLLED INTERSECTION
- TRAFFIC FLOW ARROW
- DRUM WITH/WITHOUT LIGHT, TYPE C
- FLEXIBLE TUBULAR MARKERS
- SIGN MOUNTED ON POST
- SIGN MOUNTED ON TEMPORARY SUPPORT
- TYPE III BARRICADE WITH/WITHOUT SIGN
- REMOVING PAVEMENT MARKINGS

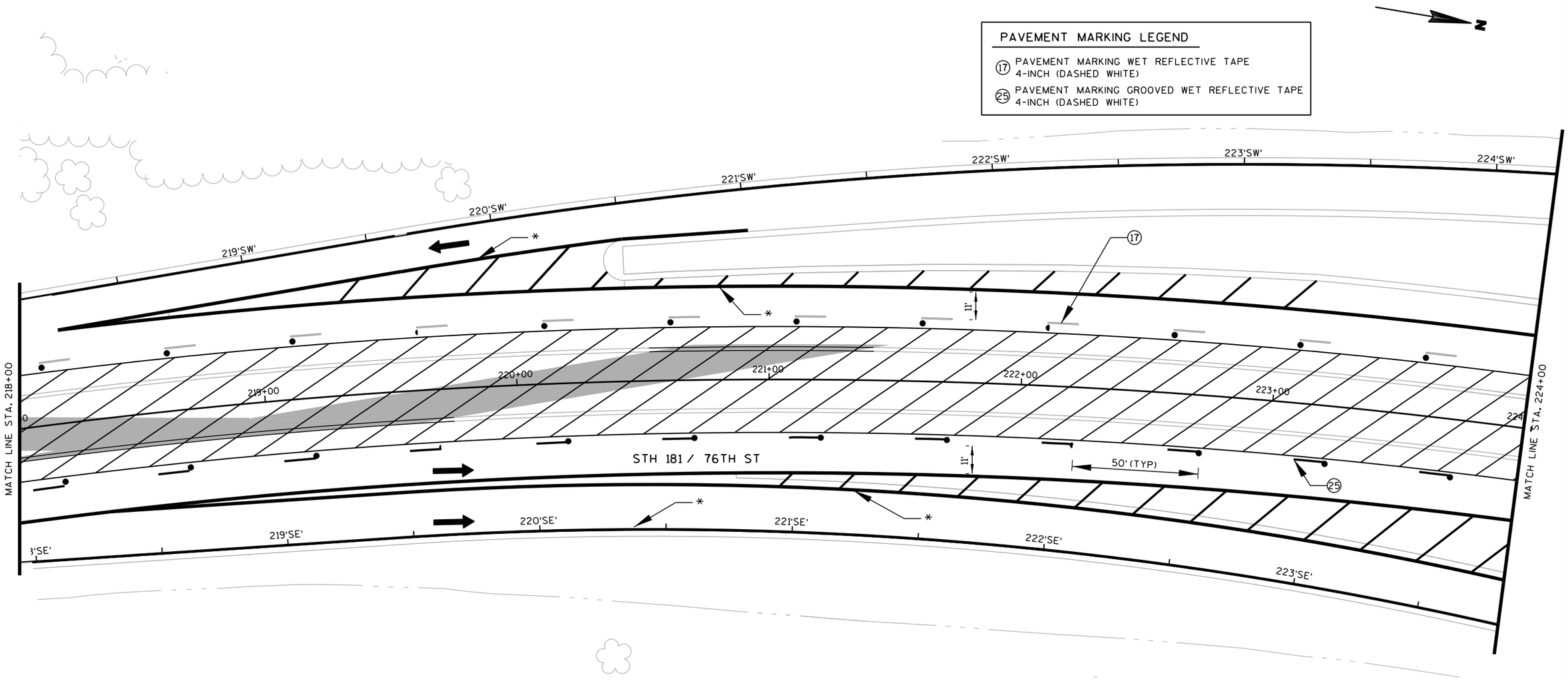
PROJECT NO: 2140-08-73	HWY: STH 181-N. 76TH ST.	COUNTY: MILWAUKEE	CONSTRUCTION STAGING - STAGE 4	SHEET 542	E

2

PAVEMENT MARKING LEGEND

(17) PAVEMENT MARKING WET REFLECTIVE TAPE 4-INCH (DASHED WHITE)

(25) PAVEMENT MARKING GROOVED WET REFLECTIVE TAPE 4-INCH (DASHED WHITE)



* = SEE PERMANENT PAVEMENT MARKING PLAN

LEGEND

- WORK ZONE
- TEMPORARY PAVEMENT
- TEMPORARY CROSSWALK ACCESS
- TEMPORARY BUS STOP PAD
- TEMPORARY PAVEMENT TO BE USED IN FUTURE STAGES
- SIGNAL CONTROLLED INTERSECTION
- TRAFFIC FLOW ARROW
- DRUM WITH/WITHOUT LIGHT, TYPE C
- FLEXIBLE TUBULAR MARKERS
- SIGN MOUNTED ON POST
- SIGN MOUNTED ON TEMPORARY SUPPORT
- TYPE III BARRICADE WITH/WITHOUT SIGN
- REMOVING PAVEMENT MARKINGS

PROJECT NO: 2140-08-73	HWY: STH 181-N. 76TH ST.	COUNTY: MILWAUKEE	CONSTRUCTION STAGING - STAGE 4	SHEET 543 E

2

15-1

W4-1
30" X 30"

225'SW' 226'SW' 227'SW' 228'SW' 229'SW' 230'SW'

* = SEE PERMANENT PAVEMENT MARKING PLAN

17

*

11'

11'

MATCH LINE STA. 224+00

225+00 226+00 227+00 228+00 229+00 230

MATCH LINE-STA. 230+00

50' (TYP)

STH 181 / 76TH ST

25

*

224'SE' 225'SE' 226'SE' 227'SE' 228'SE' 229'SE'

LEGEND

- WORK ZONE
- TEMPORARY PAVEMENT
- TEMPORARY CROSSWALK ACCESS
- TEMPORARY BUS STOP PAD
- TEMPORARY PAVEMENT TO BE USED IN FUTURE STAGES
- SIGNAL CONTROLLED INTERSECTION
- TRAFFIC FLOW ARROW
- DRUM WITH/WITHOUT LIGHT, TYPE C
- FLEXIBLE TUBULAR MARKERS
- SIGN MOUNTED ON POST
- SIGN MOUNTED ON TEMPORARY SUPPORT
- TYPE III BARRICADE WITH/WITHOUT SIGN
- REMOVING PAVEMENT MARKINGS

PAVEMENT MARKING LEGEND

(17) PAVEMENT MARKING WET REFLECTIVE TAPE 4-INCH (DASHED WHITE)

(25) PAVEMENT MARKING GROOVED WET REFLECTIVE TAPE 4-INCH (DASHED WHITE)

PROJECT NO: 2140-08-73	HWY: STH 181-N. 76TH ST.	COUNTY: MILWAUKEE	CONSTRUCTION STAGING - STAGE 4	SHEET 544	E

2

231'SW'

232+00'SW'

231+00'SW'

234+00'NW'

ONLY

235+00'NW'

236'NW'

236+00'NW'

BROWN DEER RD & STH 100

121+00'BD'

122+00'BD'

123+00'BD'

124+00'BD'

N

PAVEMENT MARKING LEGEND

(17) PAVEMENT MARKING WET REFLECTIVE TAPE 4-INCH (DASHED WHITE)

(25) PAVEMENT MARKING GROOVED WET REFLECTIVE TAPE 4-INCH (DASHED WHITE)

STH 181 / 76TH ST

12'

50' (TYP)

MATCH LINE STA. 230+00

230+00

231+00

232+00

233+00

234+00

235+00

236+

(17)

(25)

* = SEE PERMANENT PAVEMENT MARKING PLAN

230+00SE'

231+00SE'

232+00SE'

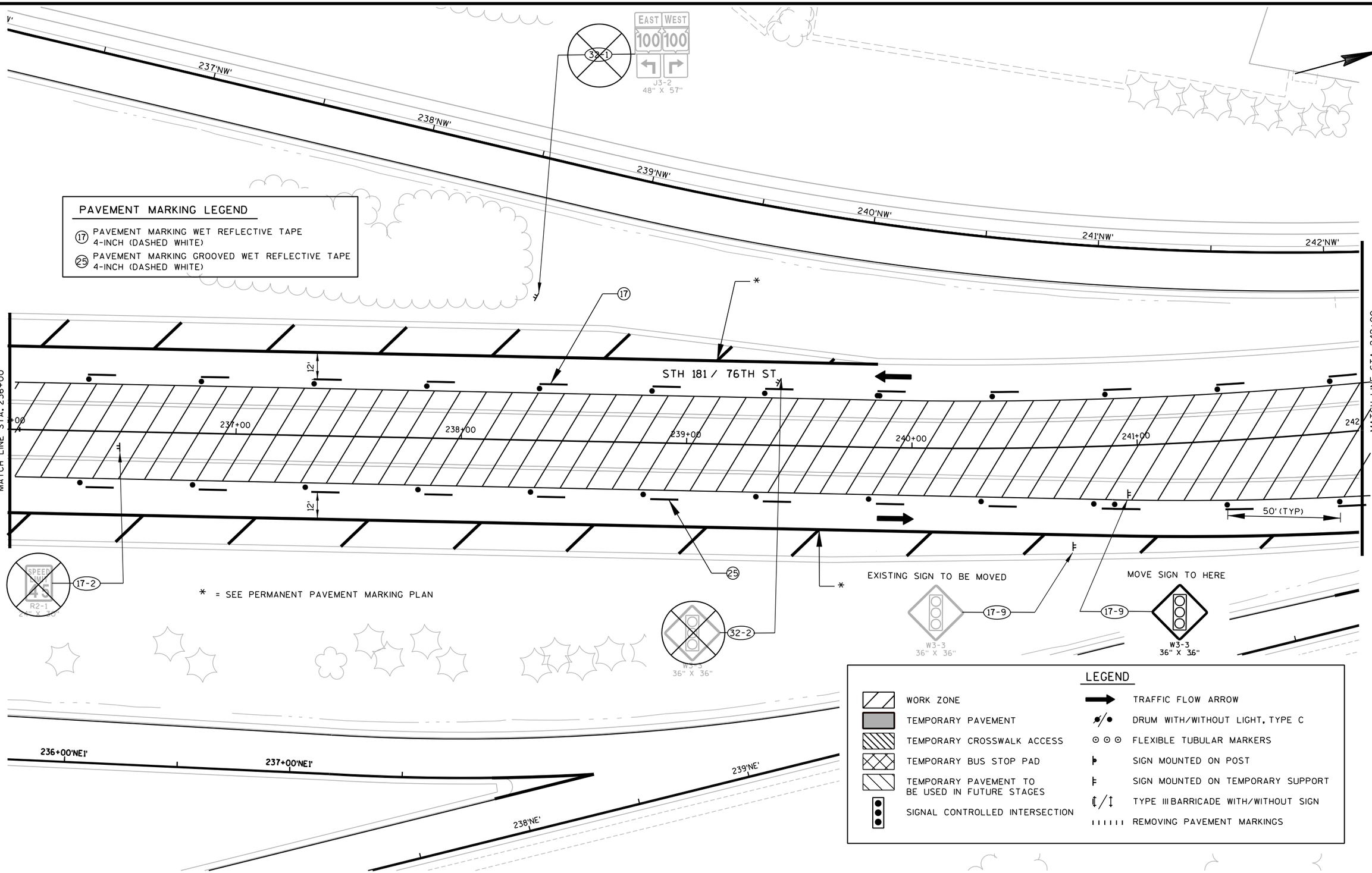
230'SE'

LEGEND

- WORK ZONE
- TEMPORARY PAVEMENT
- TEMPORARY CROSSWALK ACCESS
- TEMPORARY BUS STOP PAD
- TEMPORARY PAVEMENT TO BE USED IN FUTURE STAGES
- SIGNAL CONTROLLED INTERSECTION
- TRAFFIC FLOW ARROW
- DRUM WITH/WITHOUT LIGHT, TYPE C
- FLEXIBLE TUBULAR MARKERS
- SIGN MOUNTED ON POST
- SIGN MOUNTED ON TEMPORARY SUPPORT
- TYPE III BARRICADE WITH/WITHOUT SIGN
- REMOVING PAVEMENT MARKINGS

PROJECT NO: 2140-08-73	HWY: STH 181-N. 76TH ST.	COUNTY: MILWAUKEE	CONSTRUCTION STAGING - STAGE 4	SHEET 545	E

2



PROJECT NO: 2140-08-73	HWY: STH 181-N. 76TH ST.	COUNTY: MILWAUKEE	CONSTRUCTION STAGING - STAGE 4	SHEET	E

FILE NAME : s:\@sai\051--100\089\099\micros\design\0873\026318_s4.dgn PLOT DATE : 7/30/2007 PLOT BY : $$...plotuser...$$ PLOT NAME : PLOT SCALE : $$.....plotscale.....$$ WISDOT/CADDS SHEET 42

2

PAVEMENT MARKING LEGEND

(17) PAVEMENT MARKING WET REFLECTIVE TAPE 4-INCH (DASHED WHITE)

(25) PAVEMENT MARKING GROOVED WET REFLECTIVE TAPE 4-INCH (DASHED WHITE)

N

18-5

M1-6 24" X 24"

M5-2R 21" X 21"

M13-1 24" X 45"

243'NW' 244'NW' 245'NW' 246'NW' 247'NW'

MATCH LINE STA. 242+00

STH 181 / 76TH ST

11'

11'

50' (TYP)

25' (TYP)

25' (TYP)

+00 243+00 244+00 245+00 246+00 247+00 248

2'NE' 243'NE'

(17)

(25)

LEFT TURN LANE

R3-55L 24" X 30"

LANE CLOSED

R11-2(MOD) 48" X 30"

LEGEND

- WORK ZONE
- TEMPORARY PAVEMENT
- TEMPORARY CROSSWALK ACCESS
- TEMPORARY BUS STOP PAD
- TEMPORARY PAVEMENT TO BE USED IN FUTURE STAGES
- SIGNAL CONTROLLED INTERSECTION
- TRAFFIC FLOW ARROW
- DRUM WITH/WITHOUT LIGHT, TYPE C
- FLEXIBLE TUBULAR MARKERS
- SIGN MOUNTED ON POST
- SIGN MOUNTED ON TEMPORARY SUPPORT
- TYPE III BARRICADE WITH/WITHOUT SIGN
- REMOVING PAVEMENT MARKINGS

PROJECT NO: 2140-08-73	HWY: STH 181-N. 76TH ST.	COUNTY: MILWAUKEE	CONSTRUCTION STAGING - STAGE 4	SHEET 547	E

2

ROAD WORK AHEAD
W20-1

250'

25' (TYP)

LANE CLOSED
R11-2(MOD)
48" X 30"

19-5

STOP
R1-1F
30" X 30"

17

11'

*

10'

MATCH LINE STA. 248+00

249+00

250+00

25' (TYP)

11'

LANE CLOSED
R11-2(MOD)
48" X 30"

25

* = SEE PERMANENT PAVEMENT MARKING PLAN

19-1

WAUWATOSA
BROWN DEER
MENOMONEE FALLS

19-12

STOP
R1-1F
30" X 30"

M 2-1
21" X 15"
JCT
M1-6
24" X 24"
100
J1-1
24" X 39"

19-22

MOVE SIGNS TO HERE

Brown Deer Rd
8800 N
M1-94A

19-23

19-9

STOP
R1-1F
30" X 30"

PRIVATE ROAD

11+00 N

12+00 N

END ROAD WORK
G20-2A
48" X 24"

19-19

STOP
R1-1F
30" X 30"

M 2-1
21" X 15"
JCT
M1-6
24" X 24"
100
J1-1
24" X 39"

19-22

EXISTING SIGNS TO BE MOVED

Brown Deer Rd
8800 N
M1-94A

19-23

19-17

STOP
R1-1F
30" X 30"

12'

STH 181 / 76TH ST

50' (TYP)

251+00

252+00

253+00

254

N

PAVEMENT MARKING LEGEND

PAVEMENT MARKING WET REFLECTIVE TAPE
4-INCH (DASHED WHITE)
PAVEMENT MARKING GROOVED WET REFLECTIVE TAPE
4-INCH (DASHED WHITE)

LEGEND

- WORK ZONE
- TEMPORARY PAVEMENT
- TEMPORARY CROSSWALK ACCESS
- TEMPORARY BUS STOP PAD
- TEMPORARY PAVEMENT TO BE USED IN FUTURE STAGES
- SIGNAL CONTROLLED INTERSECTION
- TRAFFIC FLOW ARROW
- DRUM WITH/WITHOUT LIGHT, TYPE C
- FLEXIBLE TUBULAR MARKERS
- SIGN MOUNTED ON POST
- SIGN MOUNTED ON TEMPORARY SUPPORT
- TYPE III BARRICADE WITH/WITHOUT SIGN
- REMOVING PAVEMENT MARKINGS

PROJECT NO: 2140-08-73	HWY: STH 181-N. 76TH ST.	COUNTY: MILWAUKEE	CONSTRUCTION STAGING - STAGE 4	SHEET 548	E

PAVEMENT MARKING LEGEND

(14) TEMPORARY PAVEMENT MARKING
STOP LINE REMOVABLE TAPE 18-INCH

(16) TEMPORARY PAVEMENT MARKING
REMOVABLE TAPE 4-INCH (DOUBLE YELLOW)

(17) PAVEMENT MARKING WET REFLECTIVE TAPE
4-INCH (DASHED WHITE)

(25) PAVEMENT MARKING GROOVED WET REFLECTIVE TAPE
4-INCH (DASHED WHITE)

* = PLACE AT INTERSECTION OF NORTHRIDGE LAKES AND NORTHRIDGE MALL RD

ROAD WORK AHEAD W20-1 *

LANE CLOSED R11-2(MOD) 48" X 30" *

END ROAD WORK G20-2A 48" X 24" *

20-10 STOP R1-1F 30" X 30"

20-4 STOP R1-1F 30" X 30"

20-7 STOP R1-1F 30" X 30"

20-14 STOP R1-1F 30" X 30"

20-13 STOP R1-1F 30" X 30"

20-16 STOP R1-1F 30" X 30"

20-6 STOP R1-1F 30" X 30"

20-9 STOP R1-1F 30" X 30"

PRIVATE ROAD

11+00 N.L.

12+00 N.L.

10+00 N.L.T.

11+00 N.L.T.

12+00 N.L.T.

NORTHRIDGE LAKES BLVD

MATCH LINE STA. 254+00

MATCH LINE STA. 260+00

50' (TYP)

25' (TYP)

12'

10'

5'

ONLY

255+00

256+00

257+00

258+00

259+00

260

LEFT TURN LANE R3-55L 24" X 30"

** TRAFFIC CONTROL SIGNS/DRUMS/BARRICADES SHALL BE IN PLACE WHEN LEFT TURN LANE IS UNAVAILABLE.

AREA TO BE MAINTAINED AT ALL TIMES FOR LEFT TURN MOVEMENT EXCEPT FOR SPECIFIC CONSTRUCTION OPERATIONS IN THIS AREA AS DISCUSSED IN THE SPECIAL PROVISIONS.

* = SEE PERMANENT PAVEMENT MARKING PLAN

21'

11'

250'

LEGEND

- WORK ZONE
- TEMPORARY PAVEMENT
- TEMPORARY CROSSWALK ACCESS
- TEMPORARY BUS STOP PAD
- TEMPORARY PAVEMENT TO BE USED IN FUTURE STAGES
- SIGNAL CONTROLLED INTERSECTION
- TRAFFIC FLOW ARROW
- DRUM WITH/WITHOUT LIGHT, TYPE C
- FLEXIBLE TUBULAR MARKERS
- SIGN MOUNTED ON POST
- SIGN MOUNTED ON TEMPORARY SUPPORT
- TYPE III BARRICADE WITH/WITHOUT SIGN
- REMOVING PAVEMENT MARKINGS

PROJECT NO: 2140-08-73	HWY: STH 181-N. 76TH ST.	COUNTY: MILWAUKEE	CONSTRUCTION STAGING - STAGE 4 PHASE I	SHEET E

FILE NAME : s:\@sdi\051--100\089\099\micros\design\0873\026321_s4.dgn PLOT DATE : 7/30/2007 PLOT BY : $$...plotuser...$$ PLOT NAME : PLOT SCALE : $$.....plotscale.....$$ WISDOT/CADDS SHEET 42

2

N

ROAD WORK AHEAD
W20-1

250'

16

* = SEE PERMANENT PAVEMENT MARKING PLAN

= PLACE AT INTERSECTION OF NORTHRIDGE LAKES AND 75TH ST

END ROAD WORK
G20-2A
48" X 24"

PRIVATE ROAD

11+00 N.L.

PAVEMENT MARKING LEGEND

- (14) TEMPORARY PAVEMENT MARKING STOP LINE REMOVABLE TAPE 18-INCH
- (16) TEMPORARY PAVEMENT MARKING REMOVABLE TAPE 4-INCH (DOUBLE YELLOW)
- (17) PAVEMENT MARKING WET REFLECTIVE TAPE 4-INCH (DASHED WHITE)
- (25) PAVEMENT MARKING GROOVED WET REFLECTIVE TAPE 4-INCH (DASHED WHITE)

17

14

LANE CLOSED
R11-2(MOD)
48" X 30"

50' (TYP)

12'

MATCH LINE STA. 254+00

255+00

256+00

257+00

25' (TYP)

10'

LEFT TURN LANE
R3-55L
24" X 30"

10'

12'

*

25' (TYP)

258+00

259+00

260

MATCH LINE STA. 260+00

5'

12'

25

14

NORTHRIDGE LAKES BLVD

11+00 N.L.

LANE CLOSED
R11-2(MOD)
48" X 30"

#

END ROAD WORK
G20-2A
48" X 24"

16

#

ROAD WORK AHEAD
W20-1

12+00

LEGEND

- WORK ZONE
- TEMPORARY PAVEMENT
- TEMPORARY CROSSWALK ACCESS
- TEMPORARY BUS STOP PAD
- TEMPORARY PAVEMENT TO BE USED IN FUTURE STAGES
- SIGNAL CONTROLLED INTERSECTION
- TRAFFIC FLOW ARROW
- DRUM WITH/WITHOUT LIGHT, TYPE C
- FLEXIBLE TUBULAR MARKERS
- SIGN MOUNTED ON POST
- SIGN MOUNTED ON TEMPORARY SUPPORT
- TYPE III BARRICADE WITH/WITHOUT SIGN
- REMOVING PAVEMENT MARKINGS

PROJECT NO: 2140-08-73	HWY: STH 181-N. 76TH ST.	COUNTY: MILWAUKEE	CONSTRUCTION STAGING - STAGE 4 PHASE II	SHEET	E

FILE NAME : s:\@sai\051--100\089\099\micros\design\0873\026321_s4_phase ii.dgn PLOT DATE : 7/30/2007 PLOT BY : $$...plotuser...$$ PLOT NAME : PLOT SCALE : $$.....plotscale.....$$ WISDOT/CADDS SHEET 42

2

ROAD WORK AHEAD
W20-1

250'

PRIVATE ROAD

END ROAD WORK
G20-2A
48" X 24"

N

* = SEE PERMANENT PAVEMENT MARKING PLAN

LEFT TURN LANE
R3-55L
24" X 30"

17

10'

12'

STH 181 / 76TH ST

50' (TYP)

*

MATCH LINE STA. 260+00

260+00

261+00

262+00

263+00

264+00

265+00

266

MATCH LINE STA. 266+00

25' (TYP)

12'

5'

LANE CLOSED
R11-2(MOD)
48" X 30"

8

14

10

12

25

*

LEFT TURN LANE
R3-55L
24" X 30"

PAVEMENT MARKING LEGEND

(8) TEMPORARY PAVEMENT MARKING ARROWS REMOVABLE TAPE (TYP)

(10) TEMPORARY PAVEMENT MARKING WORDS REMOVABLE TAPE (TYP)

(12) TEMPORARY PAVEMENT MARKING REMOVABLE TAPE 8-INCH (CHANNELIZING)

(14) TEMPORARY PAVEMENT MARKING STOP LINE REMOVABLE TAPE 18-INCH

(17) PAVEMENT MARKING WET REFLECTIVE TAPE 4-INCH (DASHED WHITE)

(25) PAVEMENT MARKING GROOVED WET REFLECTIVE TAPE 4-INCH (DASHED WHITE)

LEGEND

- WORK ZONE
- TEMPORARY PAVEMENT
- TEMPORARY CROSSWALK ACCESS
- TEMPORARY BUS STOP PAD
- TEMPORARY PAVEMENT TO BE USED IN FUTURE STAGES
- SIGNAL CONTROLLED INTERSECTION
- TRAFFIC FLOW ARROW
- DRUM WITH/WITHOUT LIGHT, TYPE C
- FLEXIBLE TUBULAR MARKERS
- SIGN MOUNTED ON POST
- SIGN MOUNTED ON TEMPORARY SUPPORT
- TYPE III BARRICADE WITH/WITHOUT SIGN
- REMOVING PAVEMENT MARKINGS

PROJECT NO: 2140-08-73	HWY: STH 181-N. 76TH ST.	COUNTY: MILWAUKEE	CONSTRUCTION STAGING - STAGE 4	SHEET 551	E

MOVE SIGN TO HERE

22-4

W3-3
36" X 36"

EXISTING SIGN TO MOVED

22-4

W3-3
36" X 36"

* = SEE PERMANENT PAVEMENT MARKING PLAN

N

EXISTING SIGN TO BE MOVED

SPEED LIMIT 45
R2-1
24" X 30"

22-11

17

*

10'

12'

STH 181 / 76TH ST

50' (TYP)

MATCH LINE STA. 266+00

0

267+00

268+00

269+00

270+00

271+00

272

MATCH LINE STA. 272+00

25' (TYP)

12'

5'

STH 181 / 76TH ST

25

12

LANE CLOSED
R11-2(MOD)
48" X 30"

*

MOVE SIGN TO HERE

SPEED LIMIT 45
R2-1
24" X 30"

22-11

LEFT TURN LANE
R3-55L
24" X 30"

PAVEMENT MARKING LEGEND

(12) TEMPORARY PAVEMENT MARKING REMOVABLE TAPE 8-INCH (CHANNELIZING)

(17) PAVEMENT MARKING WET REFLECTIVE TAPE 4-INCH (DASHED WHITE)

(25) PAVEMENT MARKING GROOVED WET REFLECTIVE TAPE 4-INCH (DASHED WHITE)

LEGEND

- WORK ZONE
- TEMPORARY PAVEMENT
- TEMPORARY CROSSWALK ACCESS
- TEMPORARY BUS STOP PAD
- TEMPORARY PAVEMENT TO BE USED IN FUTURE STAGES
- SIGNAL CONTROLLED INTERSECTION
- TRAFFIC FLOW ARROW
- DRUM WITH/WITHOUT LIGHT, TYPE C
- FLEXIBLE TUBULAR MARKERS
- SIGN MOUNTED ON POST
- SIGN MOUNTED ON TEMPORARY SUPPORT
- TYPE III BARRICADE WITH/WITHOUT SIGN
- REMOVING PAVEMENT MARKINGS

PROJECT NO: 2140-08-73	HWY: STH 181-N. 76TH ST.	COUNTY: MILWAUKEE	CONSTRUCTION STAGING - STAGE 4	SHEET 552	E

2

N

ROAD WORK AHEAD
W20-1

250'

GLENBROOK RD

END ROAD WORK
G20-2A
48" X 24"

23-6

STOP
R1-1
30" X 30"

LANE CLOSED
R11-2(MOD)
48" X 30"

14

17

*

10'

12'

50' (TYP)

STH 181 / 76TH ST

MATCH LINE STA. 272+00

0

273+00

274+00

275+00

276+00

277+00

278

MATCH LINE STA. 278+00

25' (TYP)

10

8

14

12

12'

5'

25

LEFT TURN LANE
R3-55L
24" X 30"

* = SEE PERMANENT PAVEMENT MARKING PLAN

EXISTING SIGN TO BE MOVED

SPEED LIMIT 45
R2-1
24" X 30"

23-8

MOVE SIGN TO HERE

SPEED LIMIT 45
R2-1
24" X 30"

23-8

** TRAFFIC CONTROL SIGNS/DRUMS/BARRICADES SHALL BE IN PLACE WHEN LEFT TURN LANE IS UNAVAILABLE.

AREA TO BE MAINTAINED AT ALL TIMES FOR LEFT TURN MOVEMENT EXCEPT FOR SPECIFIC CONSTRUCTION OPERATIONS IN THIS AREA AS DISCUSSED IN THE SPECIAL PROVISIONS.

PAVEMENT MARKING LEGEND

(8) TEMPORARY PAVEMENT MARKING ARROWS REMOVABLE TAPE (TYP)

(10) TEMPORARY PAVEMENT MARKING WORDS REMOVABLE TAPE (TYP)

(12) TEMPORARY PAVEMENT MARKING REMOVABLE TAPE 8-INCH (CHANNELIZING)

(14) TEMPORARY PAVEMENT MARKING STOP LINE REMOVABLE TAPE 18-INCH

(17) PAVEMENT MARKING WET REFLECTIVE TAPE 4-INCH (DASHED WHITE)

(25) PAVEMENT MARKING GROOVED WET REFLECTIVE TAPE 4-INCH (DASHED WHITE)

LEGEND

- WORK ZONE
- TEMPORARY PAVEMENT
- TEMPORARY CROSSWALK ACCESS
- TEMPORARY BUS STOP PAD
- TEMPORARY PAVEMENT TO BE USED IN FUTURE STAGES
- SIGNAL CONTROLLED INTERSECTION
- TRAFFIC FLOW ARROW
- DRUM WITH/WITHOUT LIGHT, TYPE C
- FLEXIBLE TUBULAR MARKERS
- SIGN MOUNTED ON POST
- SIGN MOUNTED ON TEMPORARY SUPPORT
- TYPE III BARRICADE WITH/WITHOUT SIGN
- REMOVING PAVEMENT MARKINGS

PROJECT NO: 2140-08-73	HWY: STH 181-N. 76TH ST.	COUNTY: MILWAUKEE	CONSTRUCTION STAGING - STAGE 4	SHEET 553	E

2

EXISTING SIGN TO BE MOVED

CITY OF
MILWAUKEE
NO PARKING
2 AM-6 AM
ON ANY STREET WITHOUT
POLICE PERMIT
NIGHT PARKING AN SNOW
EMERGENCY REGULATIONS
ARE IN EFFECT IN THIS CITY

24-7

MOVE SIGN TO HERE

CITY OF
MILWAUKEE
NO PARKING
2 AM-6 AM
ON ANY STREET WITHOUT
POLICE PERMIT
NIGHT PARKING AN SNOW
EMERGENCY REGULATIONS
ARE IN EFFECT IN THIS CITY

24-7

N

17

10'

12'

50' (TYP)

STH 181 / 76TH ST

MATCH LINE STA. 278+00

278+00

279+00

280+00

281+00

282+00

283+00

284

MATCH LINE STA. 284+00

12'

9'

25

*

EXISTING SIGN TO BE MOVED

24-5

W3-3
36" X 36"

MOVE SIGN TO HERE

24-5

W3-3
36" X 36"

* = SEE PERMANENT PAVEMENT MARKING PLAN

PAVEMENT MARKING LEGEND

(17) PAVEMENT MARKING WET REFLECTIVE TAPE 4-INCH (DASHED WHITE)

(25) PAVEMENT MARKING GROOVED WET REFLECTIVE TAPE 4-INCH (DASHED WHITE)

LEGEND

- WORK ZONE
- TEMPORARY PAVEMENT
- TEMPORARY CROSSWALK ACCESS
- TEMPORARY BUS STOP PAD
- TEMPORARY PAVEMENT TO BE USED IN FUTURE STAGES
- SIGNAL CONTROLLED INTERSECTION
- TRAFFIC FLOW ARROW
- DRUM WITH/WITHOUT LIGHT, TYPE C
- FLEXIBLE TUBULAR MARKERS
- SIGN MOUNTED ON POST
- SIGN MOUNTED ON TEMPORARY SUPPORT
- TYPE III BARRICADE WITH/WITHOUT SIGN
- REMOVING PAVEMENT MARKINGS

PROJECT NO: 2140-08-73	HWY: STH 181-N. 76TH ST.	COUNTY: MILWAUKEE	CONSTRUCTION STAGING - STAGE 4	SHEET	E

FILE NAME : s:\@sai\051--100\089\099\micros\design\0873\026325_s4.dgn PLOT DATE : 7/30/2007 PLOT BY : $$...plotuser...$$ PLOT NAME : PLOT SCALE : $$.....plotscale.....$$ WISDOT/CADDS SHEET 42

2

N

NE RD.

STH 181 / 76TH ST

MATCH LINE STA. 284+00

+00

285+00

286+00

287+00

FOR LANE CLOSURE
USE STANDARD DETAIL DRAWING
"TRAFFIC CONTROL SINGLE LANE CLOSURE, NON-FREEWAY/EXPRESSWAY"

W. COUNTY LINE RD

LEGEND

- WORK ZONE
- TEMPORARY PAVEMENT
- TEMPORARY CROSSWALK ACCESS
- TEMPORARY BUS STOP PAD
- TEMPORARY PAVEMENT TO BE USED IN FUTURE STAGES
- SIGNAL CONTROLLED INTERSECTION
- TRAFFIC FLOW ARROW
- DRUM WITH/WITHOUT LIGHT, TYPE C
- FLEXIBLE TUBULAR MARKERS
- SIGN MOUNTED ON POST
- SIGN MOUNTED ON TEMPORARY SUPPORT
- TYPE III BARRICADE WITH/WITHOUT SIGN
- REMOVING PAVEMENT MARKINGS

PROJECT NO: 2140-08-73	HWY: STH 181-N. 76TH ST.	COUNTY: MILWAUKEE	CONSTRUCTION STAGING - STAGE 4	SHEET 555	E

FILE NAME : s:\@sai\051--100\089\099\micros\design\0873\026326_s4.dgn PLOT DATE : 7/30/2007 PLOT BY : $$...plotuser...$$ PLOT NAME : PLOT SCALE : $$.....plotscale.....$$ WISDOT/CADDS SHEET 42

2

ONLY

154+00

153+00

END ROAD WORK
G20-2A
48" X 24"

R4-7
24" X 30"

LANE CLOSED
R11-2(MOD)
48" X 30"

**

25' (TYP)

9+00'C'

10+00'C'

11+00'C'

16

14

10'

250'

ROAD WORK AHEAD
W20-1

11+00'C1'

12+00'C1'

350'

CALUMET RD

N

ROAD WORK AHEAD
W20-1

END ROAD WORK
G20-2A
48" X 24"

NOTE:

FOR SIDEWALK CLOSURE USE STANDARD DETAIL DRAWING "TRAFFIC CONTROL, SIDEWALK CLOSURE"

** = AREA TO BE MAINTAINED AT ALL TIMES FOR TURNING MOVEMENTS EXCEPT FOR SPECIFIC WORK OPERATIONS IN THIS AREA

152+00

ONLY

STH 181 / 76TH ST

151+00

LEGEND

- WORK ZONE
- TEMPORARY PAVEMENT
- TEMPORARY CROSSWALK ACCESS
- TEMPORARY BUS STOP PAD
- TEMPORARY PAVEMENT TO BE USED IN FUTURE STAGES
- SIGNAL CONTROLLED INTERSECTION
- TRAFFIC FLOW ARROW
- DRUM WITH/WITHOUT LIGHT, TYPE C
- FLEXIBLE TUBULAR MARKERS
- SIGN MOUNTED ON POST
- SIGN MOUNTED ON TEMPORARY SUPPORT
- TYPE III BARRICADE WITH/WITHOUT SIGN
- REMOVING PAVEMENT MARKINGS

PAVEMENT MARKING LEGEND

(14) TEMPORARY PAVEMENT MARKING STOP LINE REMOVABLE TAPE 18-INCH

(16) TEMPORARY PAVEMENT MARKING REMOVABLE TAPE 4-INCH (DOUBLE YELLOW)

PROJECT NO: 2140-08-73	HWY: STH 181-N. 76TH ST.	COUNTY: MILWAUKEE	CONSTRUCTION STAGING - STAGE 4 PHASE 1	SHEET 556	E

2

2

END ROAD WORK
G20-2A
48" X 24"

ROAD WORK AHEAD
W20-1

W01-6
48" X 24"

LANE CLOSED
R11-2(MOD)
48" X 30"

ROAD WORK AHEAD
W20-1

END ROAD WORK
G20-2A
48" X 24"

N

CALUMET RD

25' (TYP)

250'

9+00'C'

10+00'C'

11+00'C'

10+00'C1'

12+00

13+00

15+00

STH 181 / 76TH ST

10'

14

16

**

AREA TO BE MAINTAINED AT ALL TIMES FOR LEFT TURN MOVEMENT EXCEPT FOR SPECIFIC CONSTRUCTION OPERATIONS IN THIS AREA AS DISCUSSED IN THE SPECIAL PROVISIONS.

* TRAFFIC CONTROL SIGNS/DRUMS/BARRICADES SHALL BE IN PLACE WHEN LEFT TURN LANE IS UNAVAILABLE.

** = AREA TO BE MAINTAINED AT ALL TIMES FOR TURNING MOVEMENTS EXCEPT FOR SPECIFIC WORK OPERATIONS IN THIS AREA

LEGEND

- WORK ZONE
- TEMPORARY PAVEMENT
- TEMPORARY CROSSWALK ACCESS
- TEMPORARY BUS STOP PAD
- TEMPORARY PAVEMENT TO BE USED IN FUTURE STAGES
- SIGNAL CONTROLLED INTERSECTION
- TRAFFIC FLOW ARROW
- DRUM WITH/WITHOUT LIGHT, TYPE C
- FLEXIBLE TUBULAR MARKERS
- SIGN MOUNTED ON POST
- SIGN MOUNTED ON TEMPORARY SUPPORT
- TYPE III BARRICADE WITH/WITHOUT SIGN
- REMOVING PAVEMENT MARKINGS

PAVEMENT MARKING LEGEND

(14) TEMPORARY PAVEMENT MARKING STOP LINE REMOVABLE TAPE 18-INCH

(16) TEMPORARY PAVEMENT MARKING REMOVABLE TAPE 4-INCH (DOUBLE YELLOW)

PROJECT NO: 2140-08-73	HWY: STH 181-N. 76TH ST.	COUNTY: MILWAUKEE	CONSTRUCTION STAGING - STAGE 4 PHASE II	SHEET 557	E

2

N

* TRAFFIC CONTROL SIGNS/DRUMS/BARRICADES SHALL BE IN PLACE WHEN LEFT TURN LANE IS UNAVAILABLE.

** = AREA TO BE MAINTAINED AT ALL TIMES FOR TURNING MOVEMENTS EXCEPT FOR SPECIFIC WORK OPERATIONS IN THIS AREA

RUINS

WELL

ONLY

STH 181 / 76TH ST

181+00

180+00

FOR LANE CLOSURE
SEE CONSTRUCTION DETAIL SHEET

LANE CLOSED
R11-2(MOD)
48" X 30"

12'

10'

16

14

9+00'B'

10+00'B'

11+00'B'

LANE CLOSED
R11-2(MOD)
48" X 30"

R4-8
24" X 30"

10+00'B1'

FOR LANE CLOSURE
SEE CONSTRUCTION DETAIL SHEET

LANE CLOSED
R11-2(MOD)
48" X 30"

14

16

17'

19'

11+00'B1'

12+00'B1'

BRADLEY RD

50' (TYP)

179+00

178+00

RIGHT TURN LANE
R3-55R(MOD)
24" X 30"

R4-7
24" X 30"

AREA TO BE MAINTAINED AT ALL TIMES FOR LEFT TURN MOVEMENT EXCEPT FOR SPECIFIC CONSTRUCTION OPERATIONS IN THIS AREA AS DISCUSSED IN THE SPECIAL PROVISIONS.

LEGEND

- WORK ZONE
- TEMPORARY PAVEMENT
- TEMPORARY CROSSWALK ACCESS
- TEMPORARY BUS STOP PAD
- TEMPORARY PAVEMENT TO BE USED IN FUTURE STAGES
- SIGNAL CONTROLLED INTERSECTION
- TRAFFIC FLOW ARROW
- DRUM WITH/WITHOUT LIGHT, TYPE C
- FLEXIBLE TUBULAR MARKERS
- SIGN MOUNTED ON POST
- SIGN MOUNTED ON TEMPORARY SUPPORT
- TYPE III BARRICADE WITH/WITHOUT SIGN
- REMOVING PAVEMENT MARKINGS

PAVEMENT MARKING LEGEND

(14) TEMPORARY PAVEMENT MARKING STOP LINE REMOVABLE TAPE 18-INCH

(16) TEMPORARY PAVEMENT MARKING REMOVABLE TAPE 4-INCH (DOUBLE YELLOW)

PROJECT NO: 2140-08-73	HWY: STH 181-N. 76TH ST.	COUNTY: MILWAUKEE	CONSTRUCTION STAGING - STAGE 4 PHASE I	SHEET 558 E

2

2

N

** = AREA TO BE MAINTAINED AT ALL TIMES FOR TURNING MOVEMENTS EXCEPT FOR SPECIFIC WORK OPERATIONS IN THIS AREA

RUINS

WELL

ONLY

STH 181 / 76TH ST

181+00

180+00

179+00

178+00

FOR LANE CLOSURE
SEE CONSTRUCTION DETAIL SHEET

LANE CLOSED
R11-2(MOD)
48" X 30"

9+00'B'

10+00'B'

11+00'B'

12+00'B'

12'

12'

13'

16

14

**

BRADLEY RD

LEGEND

- WORK ZONE
- TEMPORARY PAVEMENT
- TEMPORARY CROSSWALK ACCESS
- TEMPORARY BUS STOP PAD
- TEMPORARY PAVEMENT TO BE USED IN FUTURE STAGES
- SIGNAL CONTROLLED INTERSECTION
- TRAFFIC FLOW ARROW
- DRUM WITH/WITHOUT LIGHT, TYPE C
- FLEXIBLE TUBULAR MARKERS
- SIGN MOUNTED ON POST
- SIGN MOUNTED ON TEMPORARY SUPPORT
- TYPE III BARRICADE WITH/WITHOUT SIGN
- REMOVING PAVEMENT MARKINGS

PAVEMENT MARKING LEGEND

(14) TEMPORARY PAVEMENT MARKING
STOP LINE REMOVABLE TAPE 18-INCH

(16) TEMPORARY PAVEMENT MARKING
REMOVABLE TAPE 4-INCH (DOUBLE YELLOW)

PROJECT NO: 2140-08-73	HWY: STH 181-N. 76TH ST.	COUNTY: MILWAUKEE	CONSTRUCTION STAGING - STAGE 4 PHASE II	SHEET 559	E

2

2

N

* TRAFFIC CONTROL SIGNS/DRUMS/BARRICADES SHALL BE IN PLACE WHEN LEFT TURN LANE IS UNAVAILABLE.

** = AREA TO BE MAINTAINED AT ALL TIMES FOR TURNING MOVEMENTS EXCEPT FOR SPECIFIC WORK OPERATIONS IN THIS AREA

END ROAD WORK
G20-2A
48" X 24"

ROAD WORK AHEAD
W20-1

ONLY

201+00

65'

55'

10+00'D'

11+00'D'

DEAN RD

13+00'D'

14+00'D'

16

14

25' (TYP)

11'

10'

250'

**

W01-6
48" X 24"

ROAD WORK AHEAD
W20-1

55'

65'

AREA TO BE MAINTAINED AT ALL TIMES FOR LEFT TURN MOVEMENT EXCEPT FOR SPECIFIC CONSTRUCTION OPERATIONS IN THIS AREA AS DISCUSSED IN THE SPECIAL PROVISIONS.

END ROAD WORK
G20-2A
48" X 24"

205+00

STH 181 / 76TH ST

204+00

PAVEMENT MARKING LEGEND

(14) TEMPORARY PAVEMENT MARKING STOP LINE REMOVABLE TAPE 18-INCH

(16) TEMPORARY PAVEMENT MARKING REMOVABLE TAPE 4-INCH (DOUBLE YELLOW)

LEGEND

- WORK ZONE
- TEMPORARY PAVEMENT
- TEMPORARY CROSSWALK ACCESS
- TEMPORARY BUS STOP PAD
- TEMPORARY PAVEMENT TO BE USED IN FUTURE STAGES
- SIGNAL CONTROLLED INTERSECTION
- TRAFFIC FLOW ARROW
- DRUM WITH/WITHOUT LIGHT, TYPE C
- FLEXIBLE TUBULAR MARKERS
- SIGN MOUNTED ON POST
- SIGN MOUNTED ON TEMPORARY SUPPORT
- TYPE III BARRICADE WITH/WITHOUT SIGN
- REMOVING PAVEMENT MARKINGS

PROJECT NO: 2140-08-73	HWY: STH 181-N. 76TH ST.	COUNTY: MILWAUKEE	CONSTRUCTION STAGING - STAGE 4 PHASE 1	SHEET	E

FILE NAME : s:\@sai\051--100\089\099\micros\design\0873\026337_s4_phase 1.dgn PLOT DATE : 7/30/2007 PLOT BY : $$...plotuser...$$ PLOT NAME : PLOT SCALE : $$.....plotscale.....$$ WISDOT/CADDS SHEET 42

2

2

N

** TRAFFIC CONTROL SIGNS/DRUMS/BARRICADES SHALL BE IN PLACE WHEN LEFT TURN LANE IS UNAVAILABLE.

AREA TO BE MAINTAINED AT ALL TIMES FOR LEFT TURN MOVEMENT EXCEPT FOR SPECIFIC CONSTRUCTION OPERATIONS IN THIS AREA AS DISCUSSED IN THE SPECIAL PROVISIONS.

* TRAFFIC CONTROL SIGNS/DRUMS/BARRICADES SHALL BE IN PLACE WHEN LEFT TURN LANE IS UNAVAILABLE.

** = AREA TO BE MAINTAINED AT ALL TIMES FOR TURNING MOVEMENTS EXCEPT FOR SPECIFIC WORK OPERATIONS IN THIS AREA

END ROAD WORK
G20-2A
48" X 24"

ROAD WORK AHEAD
W20-1

ROAD WORK AHEAD
W20-1

65'

55'

10+00'D'

11'

11'

11+00'D'

25' (TYP)

250'

W01-6
48" X 24"

207+00

206+00

205+00

204+00

STH 181 / 76TH ST

12+00'D'

13+00'D'

10'

25' (TYP)

14+00'D'

DEAN RD

55'

65'

AREA TO BE MAINTAINED AT ALL TIMES FOR LEFT TURN MOVEMENT EXCEPT FOR SPECIFIC CONSTRUCTION OPERATIONS IN THIS AREA AS DISCUSSED IN THE SPECIAL PROVISIONS.

END ROAD WORK
G20-2A
48" X 24"

PAVEMENT MARKING LEGEND

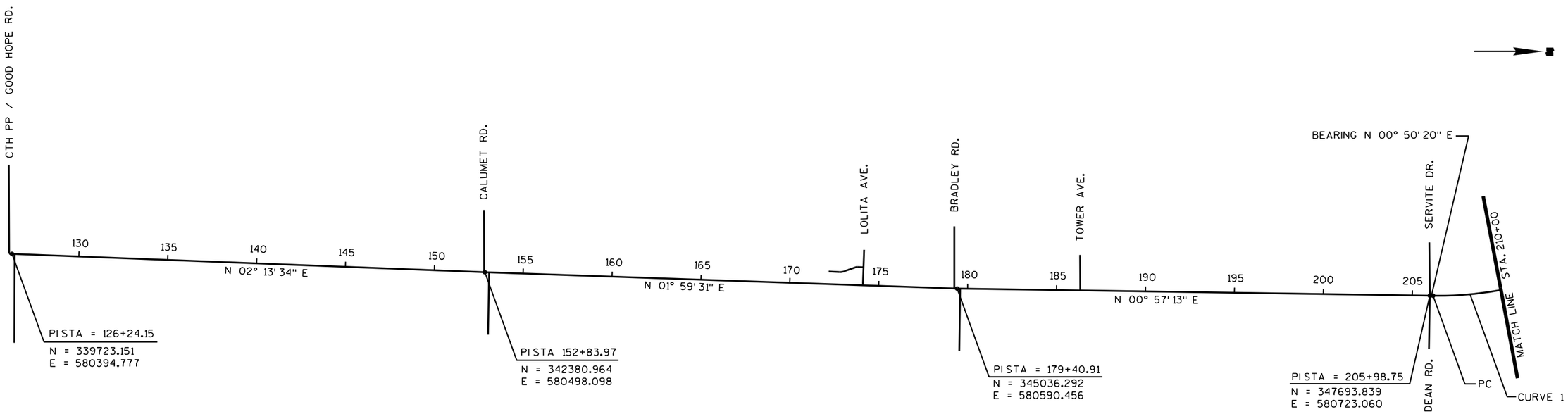
(14) TEMPORARY PAVEMENT MARKING STOP LINE REMOVABLE TAPE 18-INCH

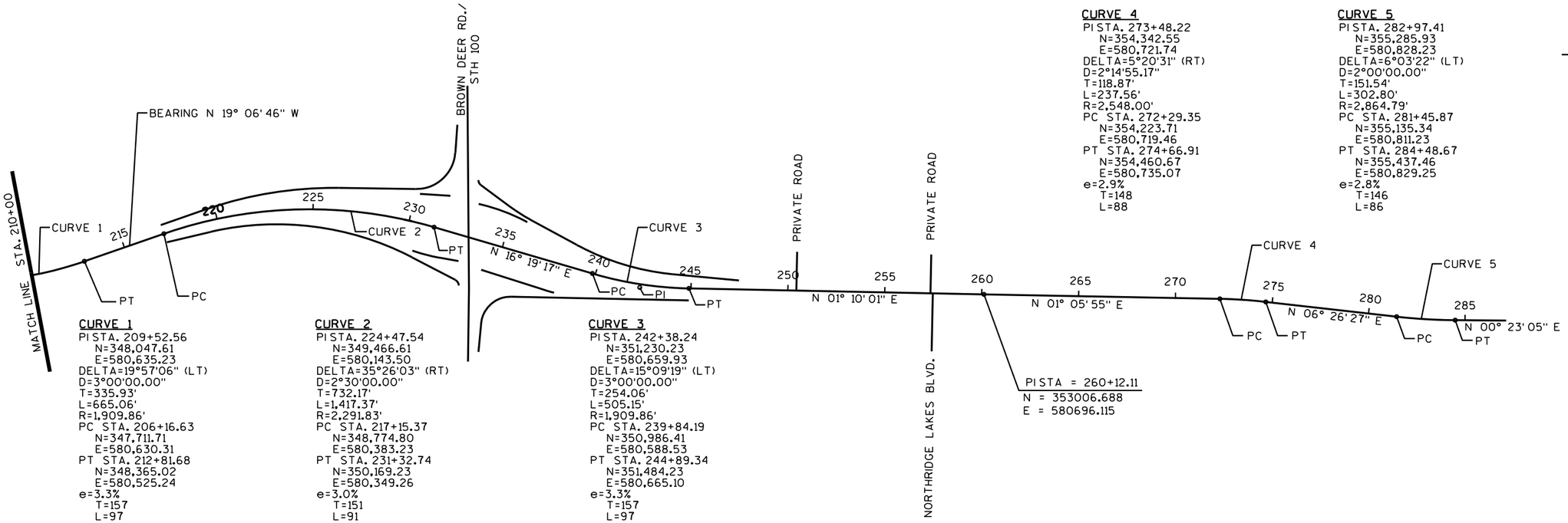
(16) TEMPORARY PAVEMENT MARKING REMOVABLE TAPE 4-INCH (DOUBLE YELLOW)

LEGEND

- WORK ZONE
- TEMPORARY PAVEMENT
- TEMPORARY CROSSWALK ACCESS
- TEMPORARY BUS STOP PAD
- TEMPORARY PAVEMENT TO BE USED IN FUTURE STAGES
- SIGNAL CONTROLLED INTERSECTION
- TRAFFIC FLOW ARROW
- DRUM WITH/WITHOUT LIGHT, TYPE C
- FLEXIBLE TUBULAR MARKERS
- SIGN MOUNTED ON POST
- SIGN MOUNTED ON TEMPORARY SUPPORT
- TYPE III BARRICADE WITH/WITHOUT SIGN
- REMOVING PAVEMENT MARKINGS

PROJECT NO: 2140-08-73	HWY: STH 181-N. 76TH ST.	COUNTY: MILWAUKEE	CONSTRUCTION STAGING - STAGE 4 PHASE II	SHEET 561	E





CURVE 1
PI STA. 209+52.56
N=348,047.61
E=580,635.23
DELTA=19°57'06" (LT)
D=3°00'00.00"
T=335.93'
L=665.06'
R=1,909.86'
PC STA. 206+16.63
N=347,711.71
E=580,630.31
PT STA. 212+81.68
N=348,365.02
E=580,525.24
e=3.3%
T=157
L=97

CURVE 2
PI STA. 224+47.54
N=349,466.61
E=580,143.50
DELTA=35°26'03" (RT)
D=2°30'00.00"
T=732.17'
L=1,417.37'
R=2,291.83'
PC STA. 217+15.37
N=348,774.80
E=580,383.23
PT STA. 231+32.74
N=350,169.23
E=580,349.26
e=3.0%
T=151
L=91

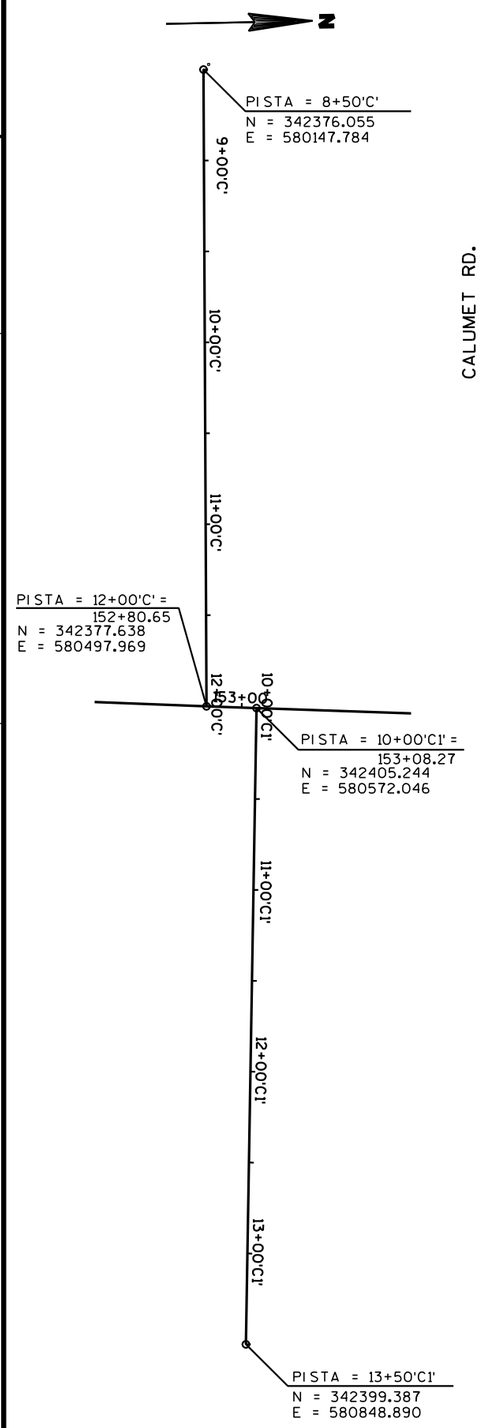
CURVE 3
PI STA. 242+38.24
N=351,230.23
E=580,659.93
DELTA=15°09'19" (LT)
D=3°00'00.00"
T=254.06'
L=505.15'
R=1,909.86'
PC STA. 239+84.19
N=350,986.41
E=580,588.53
PT STA. 244+89.34
N=351,484.23
E=580,665.10
e=3.3%
T=157
L=97

CURVE 4
PI STA. 273+48.22
N=354,342.55
E=580,721.74
DELTA=5°20'31" (RT)
D=2°14'55.17"
T=118.87'
L=237.56'
R=2,548.00'
PC STA. 272+29.35
N=354,223.71
E=580,719.46
PT STA. 274+66.91
N=354,460.67
E=580,735.07
e=2.9%
T=148
L=88

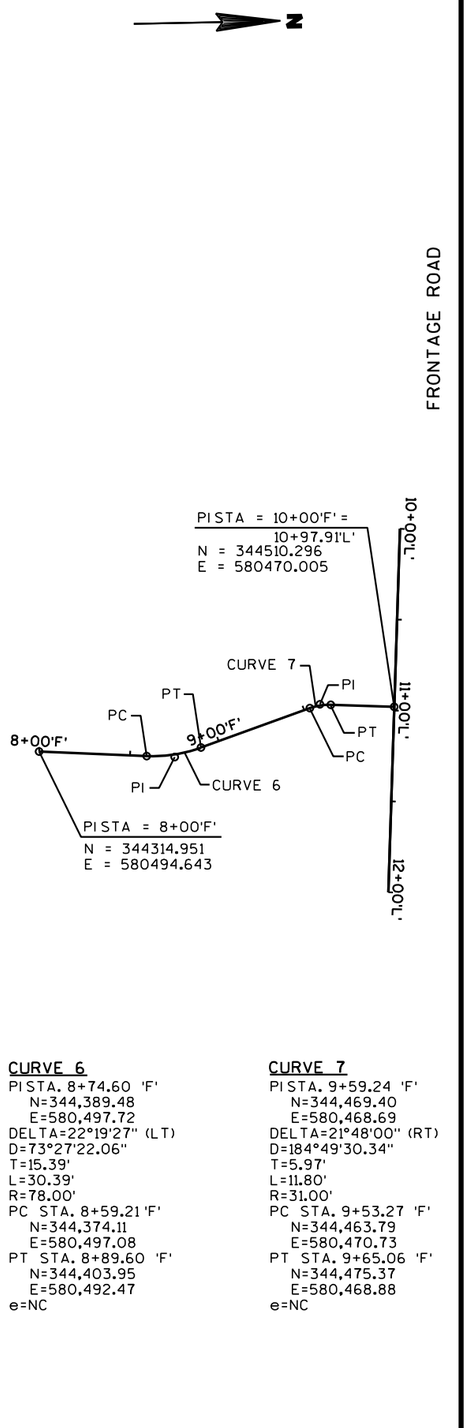
CURVE 5
PI STA. 282+97.41
N=355,285.93
E=580,828.23
DELTA=6°03'22" (LT)
D=2°00'00.00"
T=151.54'
L=302.80'
R=2,864.79'
PC STA. 281+45.87
N=355,135.34
E=580,811.23
PT STA. 284+48.67
N=355,437.46
E=580,829.25
e=2.8%
T=146
L=86

PROJECT NO: 2140-08-73	HWY: STH 181	COUNTY: MILWAUKEE	ALIGNMENT DETAIL (MAINLINE)	SHEET 562	E

2



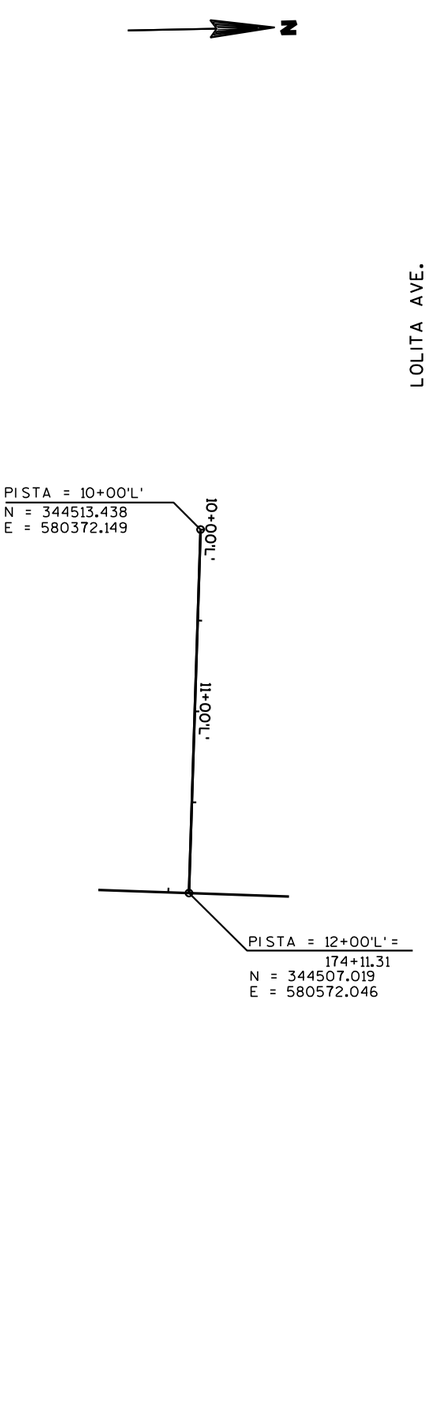
CALUMET RD.



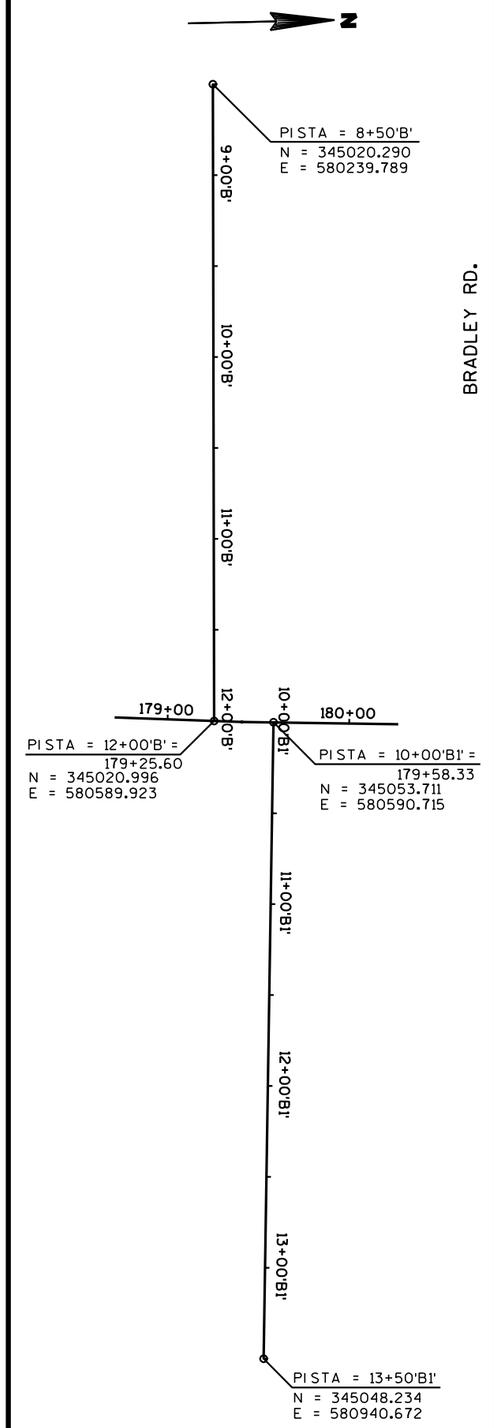
FRONTAGE ROAD

CURVE 6
PISTA. 8+74.60 'F'
N=344,389.48
E=580,497.72
DELTA=22°19'27" (LT)
D=73°27'22.06"
T=15.39'
L=30.39'
R=78.00'
PC STA. 8+59.21 'F'
N=344,374.11
E=580,497.08
PT STA. 8+89.60 'F'
N=344,403.95
E=580,492.47
e=NC

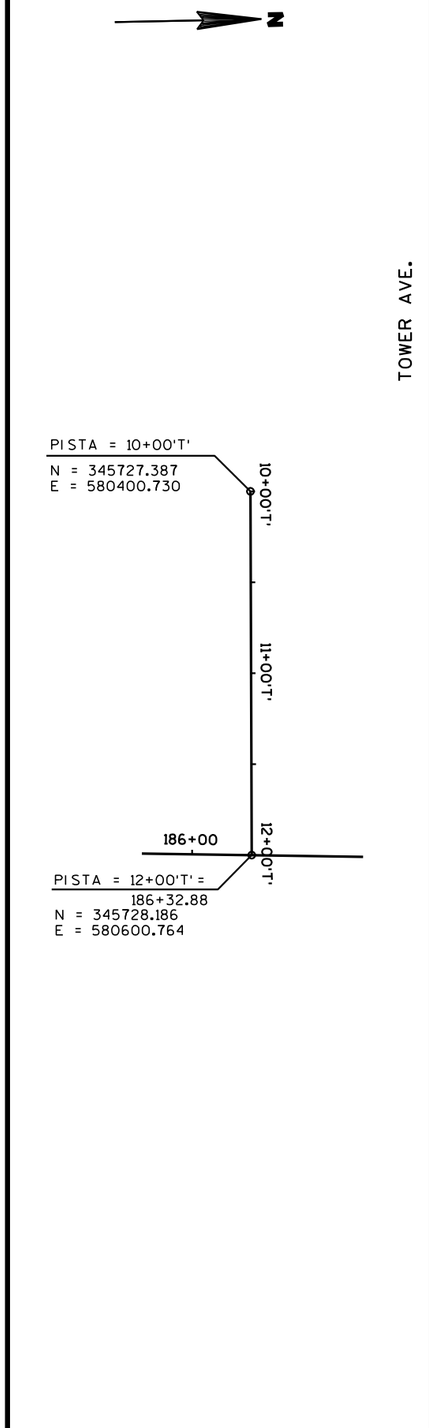
CURVE 7
PISTA. 9+59.24 'F'
N=344,469.40
E=580,468.69
DELTA=21°48'00" (RT)
D=184°49'30.34"
T=5.97'
L=11.80'
R=31.00'
PC STA. 9+53.27 'F'
N=344,463.79
E=580,470.73
PT STA. 9+65.06 'F'
N=344,475.37
E=580,468.88
e=NC



LOLITA AVE.



BRADLEY RD.



TOWER AVE.

2

PROJECT NO:2140-08-73	HWY: STH 181	COUNTY: MILWAUKEE	ALIGNMENT DETAIL (SIDEROADS)	SHEET 563	E

2

N

PISTA = 9+00'D'
N = 347690.701
E = 580330.003

9+00'D'

10+00'D'

11+00'D'

12+00'D'

206+00

PISTA = 12+00'D' =
205+98.88
N = 347693.964
E = 580630.052

13+00'D'

14+00'D'

15+00'D'

PISTA = 15+00'D'
N = 347689.235
E = 580930.015

SERVITE DR.

DEAN RD.

N

PISTA = 114+50'BD'
N = 350340.819
E = 579619.106

115+00'BD'

116+00'BD'

117+00'BD'

118+00'BD'

119+00'BD'

120+00'BD'

121+00'BD'

122+00'BD'

233+00

PISTA = 122+32.39'BD' =
233+18.09
N = 350347.488
E = 580401.319

STH 100/BROWN DEER RD. (WEST)

N

233+00

PISTA = 122+32.39'BD' =
233+18.09
N = 350347.488
E = 580401.319

123+00'BD'

124+00'BD'

125+00'BD'

126+00'BD'

127+00'BD'

128+00'BD'

PISTA = 128+74.06'BD'
N = 350343.809
E = 581043.088

STH 100/BROWN DEER RD. (EAST)

N

PISTA = 10+00'N'
N = 352042.140
E = 580476.427

10+00'N'

11+00'N'

12+00'N'

PISTA = 12+00'N' =
250+43.53
N = 352037.816
E = 580676.391

PRIVATE ROAD

N

PISTA = 10+00'NL'
N = 352734.428
E = 580490.527

10+00'NL'

11+00'NL'

PISTA = 12+00'NL' =
257+35.73
N = 352730.372
E = 580690.487

257+00

12+00'NL'

10+00'NL1'

PISTA = 10+00'NL1' =
257+47.26
N = 352741.904
E = 580690.722

11+00'NL1'

12+00'NL1'

13+00'NL1'

PISTA = 13+00'NL1'
N = 352736.211
E = 580990.668

PRIVATE ROAD

NORTHRIDGE LAKES BLVD.

2

PROJECT NO:2140-08-73	HWY: STH 181	COUNTY: MILWAUKEE	ALIGNMENT DETAIL (SIDEROADS)	SHEET 564	E

2

N

STH 181/BROWN DEER RD.

STH 181

CURVE 8
PI STA. 223+12.33 'SW'
N=349,322.81
E=580,141.47
DELTA=19°54'40" (RT)
D=2°52'03.56"
T=350.71'
L=694.34'
R=1,998.00'
PC STA. 219+61.63 'SW'
N=348,991.44
E=580,256.30
PT STA. 226+55.96 'SW'
N=349,673.48
E=580,146.36
e=3.2%
T=156
L=96

CURVE 9
PI STA. 232+47.47 'SW'
N=350,264.93
E=580,154.60
DELTA=86°36'25" (LT)
D=28°21'51.29"
T=190.38'
L=305.34'
R=202.00'
PC STA. 230+57.09 'SW'
N=350,074.57
E=580,151.95
PT STA. 233+62.43 'SW'
N=350,278.84
E=579,964.73
e=4%
T=101
L=67

CURVE 12
PI STA. 232+84.10 'NW'
N=350,398.00
E=580,122.22
DELTA=52°52'13" (LT)
D=179°02'57.52"
T=15.91'
L=29.53'
R=32.00'
PC STA. 232+68.19 'NW'
N=350,397.87
E=580,106.31
PT STA. 232+97.72 'NW'
N=350,410.77
E=580,131.71
e=NC

CURVE 13
PI STA. 235+48.36 'NW'
N=350,611.88
E=580,281.30
DELTA=8°08'44" (LT)
D=5°43'46.48"
T=71.20'
L=142.17'
R=1,000.00'
PC STA. 234+77.16 'NW'
N=350,554.72
E=580,238.83
PT STA. 236+19.32 'NW'
N=350,674.47
E=580,315.24
e=3.1%
T=99
L=60

CURVE 14
PI STA. 241+46.70 'NW'
N=351,138.08
E=580,566.61
DELTA=23°00'24" (LT)
D=4°24'26.52"
T=264.57'
L=522.21'
R=1,300.00'
PC STA. 238+82.13 'NW'
N=350,905.50
E=580,440.50
PT STA. 244+04.14 'NW'
N=351,401.45
E=580,591.78
e=3.8%
T=140
L=92

CURVE 18
PI STA. 234+76.31 'NW1'
N=350,531.36
E=580,258.88
DELTA=15°25'35" (RT)
D=5°43'05.31"
T=135.71'
L=269.78'
R=1002.00'
PC STA. 233+40.60 'NW1'
N=350,399.01
E=580,228.88
PT STA. 236+10.38 'NW1'
N=350,650.97
E=580,323.01
e=NC

PI STA. 217+15.37 'SW'
N=348,758.76
E=580,336.94

PI STA. 217+15.37 'SE'
N=348,789.97
E=580,426.66

PI STA. 235+08.01 'SW'
N=350,289.48
E=579,819.54

PI STA. 230+76.31 'SW1'
N=350,096.08
E=580,177.14

PI STA. 232+33.90 'SW1'
N=350,253.37
E=580,186.94

PI STA. 232+31.94 'SE1'
N=350,295.35
E=580,523.88

PI STA. 234+00.00 'NE1'
N=350,412.54
E=580,568.69

PI STA. 247+46.38 'NW'
N=351,742.14
E=580,624.35

PI STA. 243+21.64 'NE'
N=351,315.31
E=580,723.68

PI STA. 231+95.68 'NE'
N=350,397.56
E=580,994.61

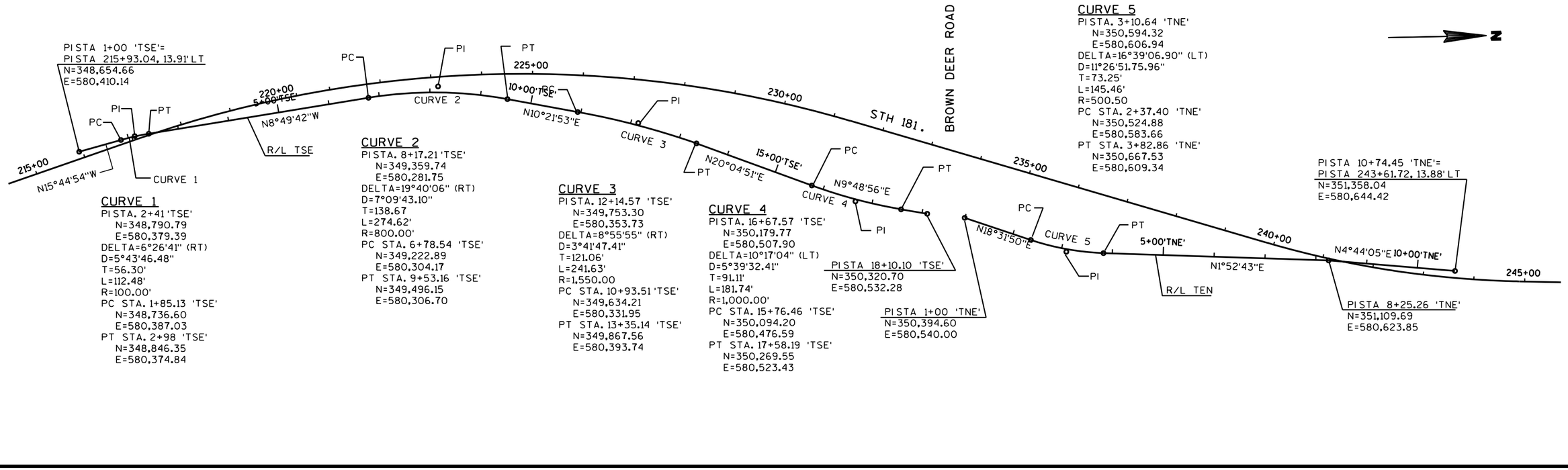
CURVE 10
PI STA. 225+04.99 'SE'
N=349,558.77
E=580,246.56
DELTA=40°40'30" (RT)
D=3°47'37.66"
T=559.78'
L=1,072.15'
R=1,510.25'
PC STA. 219+45.20 'SE'
N=349,013.74
E=580,374.24
PT STA. 230+17.35 'SE'
N=350,055.35
E=580,504.96
e=3.6%
T=134
L=86

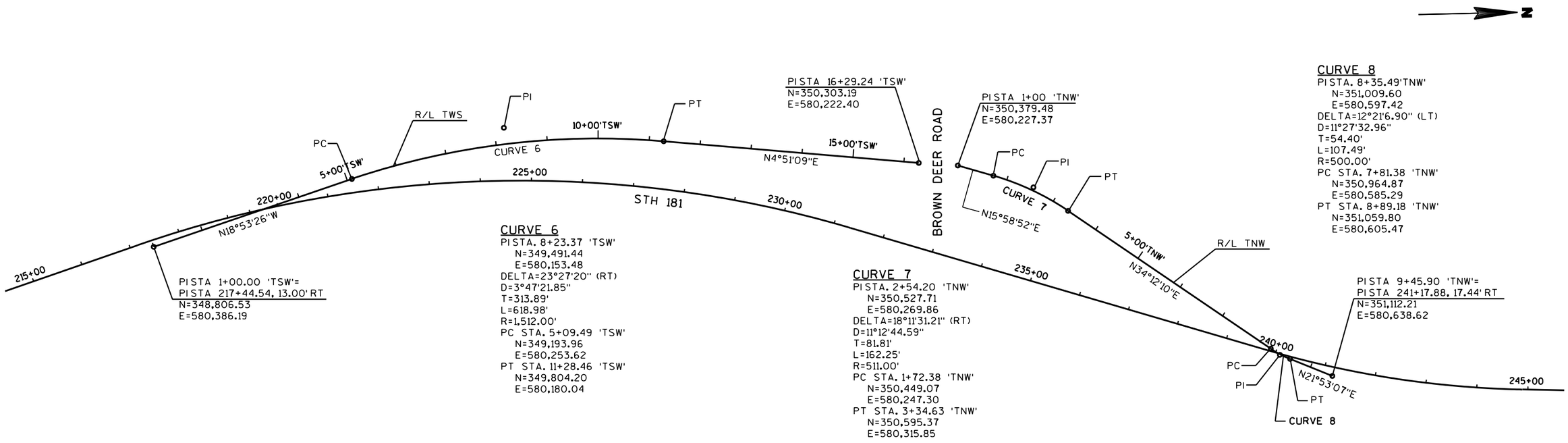
CURVE 11
PI STA. 232+88.90 'SE'
N=350,296.24
E=580,630.31
DELTA=62°01'55" (RT)
D=179°02'57.52"
T=19.24'
L=34.65'
R=32.00'
PC STA. 232+69.66 'SE'
N=350,279.17
E=580,621.43
PT STA. 233+04.31 'SE'
N=350,296.40
E=580,649.55
e=NC

CURVE 15
PI STA. 237+55.47 'NE1'
N=350,750.90
E=580,677.61
DELTA=4°21'02" (LT)
D=5°37'41.77"
T=38.67'
L=77.30'
R=1,018.00'
PC STA. 237+16.80 'NE1'
N=350,714.22
E=580,665.37
PT STA. 237+94.10 'NE1'
N=350,788.40
E=580,687.04
e=3.1%
T=99
L=60

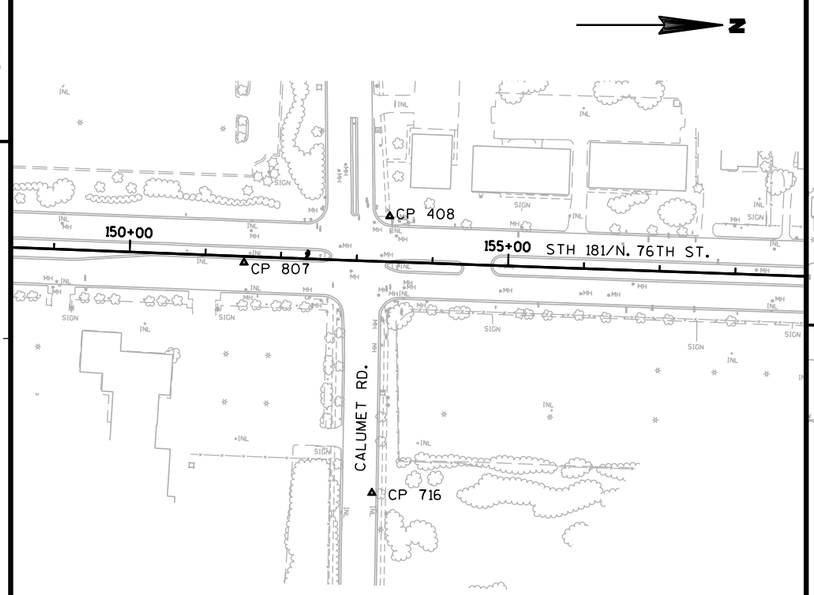
CURVE 16
PI STA. 234+86.07 'NE'
N=350,425.32
E=580,705.55
DELTA=85°40'55" (RT)
D=37°41'40.53"
T=140.96'
L=227.31'
R=152.00'
PC STA. 233+45.11 'NE'
N=350,411.84
E=580,845.86
PT STA. 235+72.42 'NE'
N=350,566.24
E=580,708.42
e=4%
T=101
L=67

CURVE 17
PI STA. 230+74.07 'SE1'
N=350,129.64
E=580,495.04
DELTA=9°04'01" (LT)
D=5°52'36.02"
T=77.31'
L=154.13'
R=974.97'
PC STA. 229+96.76 'SE1'
N=350,056.52
E=580,469.94
PT STA. 231+51.05 'SE1'
N=350,205.80
E=580,508.29
e=3.2%
T=100
L=61





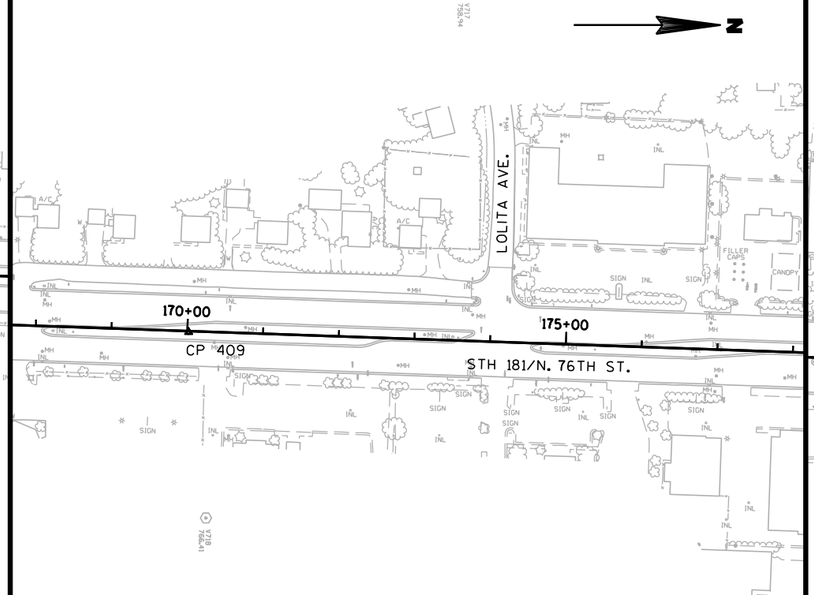
PROJECT NO:2140-08-73	HWY: STH 181	COUNTY: MILWAUKEE	ALIGNMENT DETAIL (BROWN DEER ROAD TEMPORARY RAMPS)	SHEET 566	E



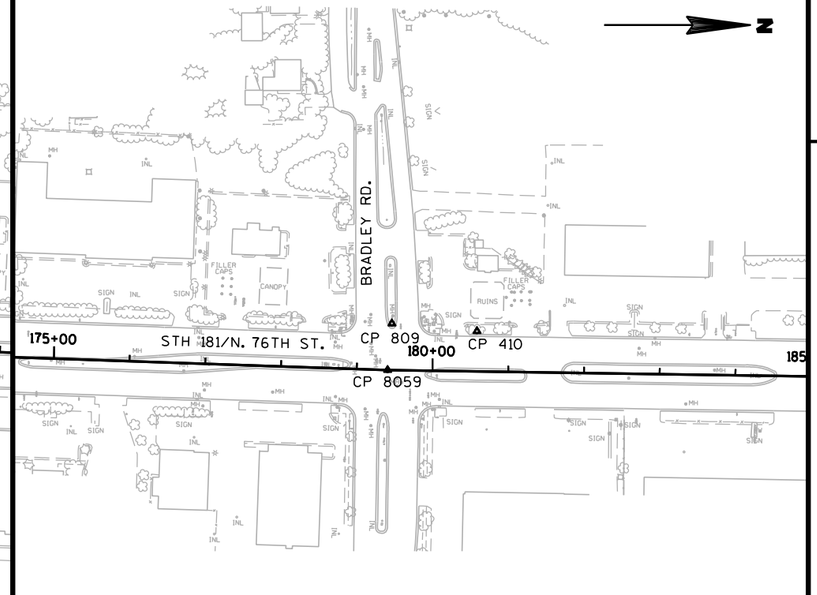
CP 408 (PK)
STA. 153+41.4, 60.24 LT
NORTHING: 342440.50
EASTING: 580439.89

CP 716 (CHISX)
STA. 153+30.6, 305.55 RT
NORTHING: 342416.95
EASTING: 580805.08

CP 807 (PK)
STA. 151+51.4, 8.03 RT
NORTHING: 342248.23
EASTING: 580500.98



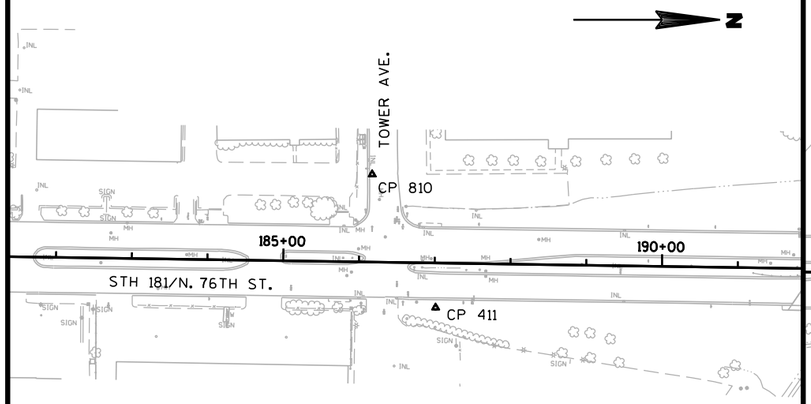
CP 409
STA. 170+01.6, 1.44 RT
NORTHING: 344097.56
EASTING: 580559.25



CP 809
STA. 179+45.5, 61.44 LT
NORTHING: 345041.85
EASTING: 580529.09

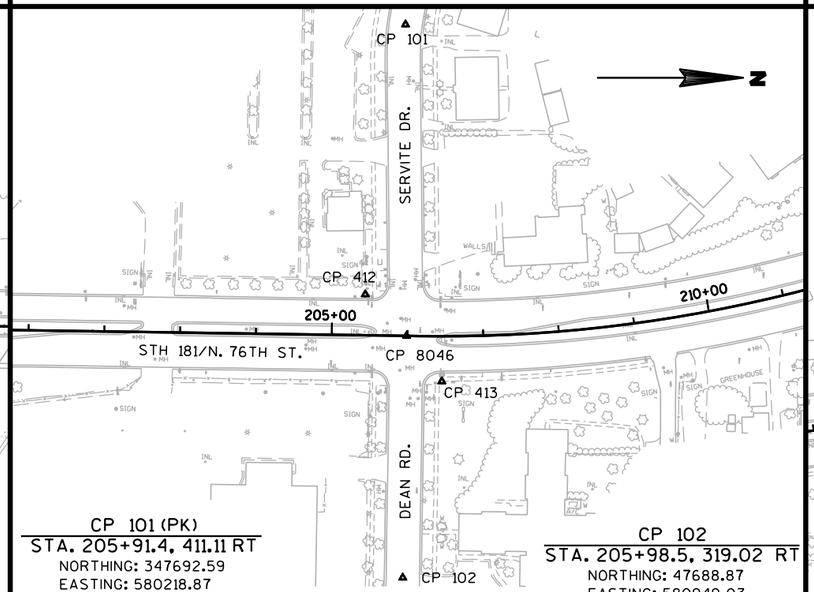
CP 8059 (SEC COR.)
STA. 179+40.9, 0.00
NORTHING: 345036.29
EASTING: 580590.45

CP 410
STA. 180+58.1, 53.10 LT
NORTHING: 345154.30
EASTING: 580539.10



CP 810 (PK)
STA. 186+15.7, 115.78 LT
NORTHING: 345712.68
EASTING: 580484.74

CP 411 (SPIKE)
STA. 187+01.9, 58.91 RT
NORTHING: 345796.34
EASTING: 580660.69



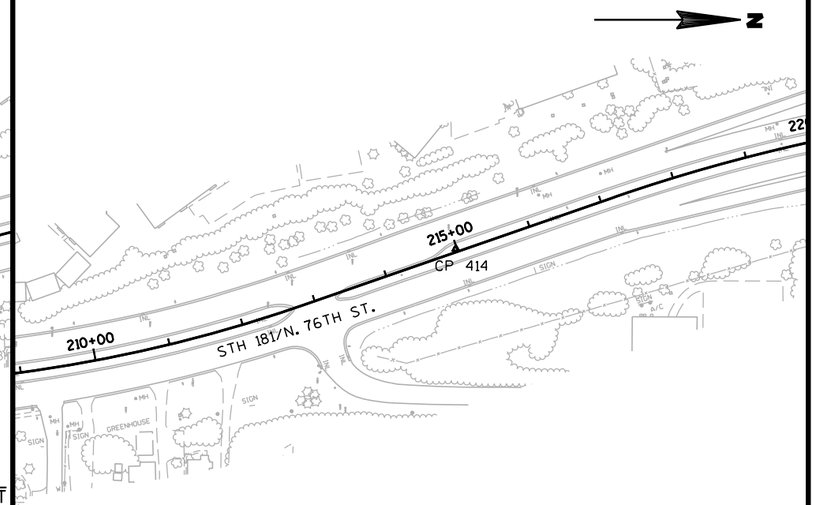
CP 101 (PK)
STA. 205+91.4, 411.11 RT
NORTHING: 347692.59
EASTING: 580218.87

CP 102
STA. 205+98.5, 319.02 RT
NORTHING: 47688.87
EASTING: 580949.03

CP 412 (CHK)
STA. 205+43.5, 53.91 LT
NORTHING: 347639.44
EASTING: 580575.32

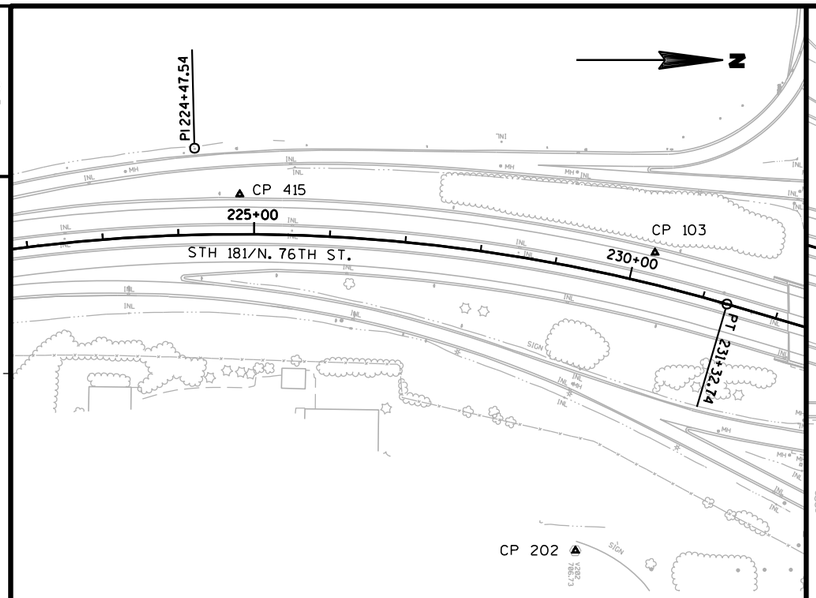
CP 8046 (SEC COR.)
STA. 205+48.8, 0.00
NORTHING: 347693.84
EASTING: 580630.05

CP 413 (SPIKE)
STA. 206+45.2, 59.40 RT
NORTHING: 347740.35
EASTING: 580689.92



CP 414
STA. 214+98.6, 4.12 LT
NORTHING: 348568.66
EASTING: 580450.31

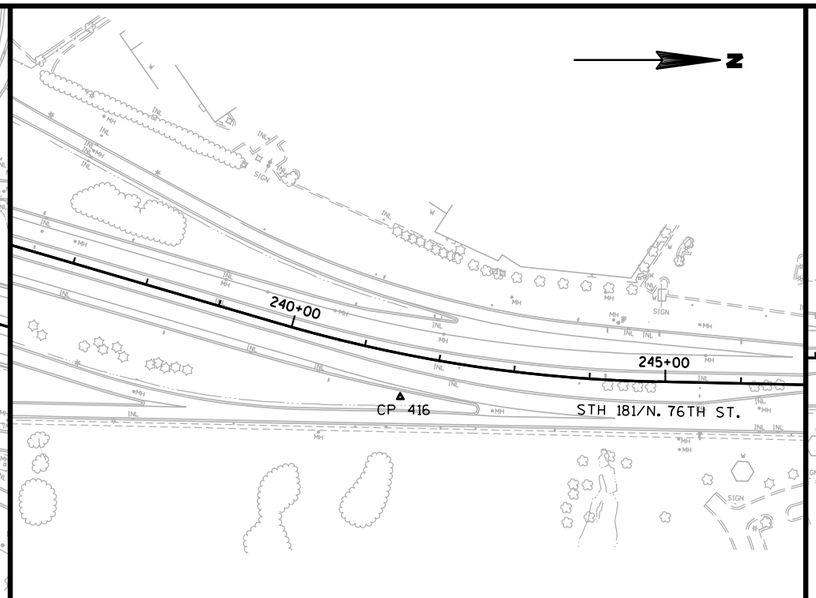
PROJECT NO:2140-08-73	HWY: STH 181-N. 76TH ST.	COUNTY: MILWAUKEE	CONTROL POINT DATA SHEET	SHEET 567	E



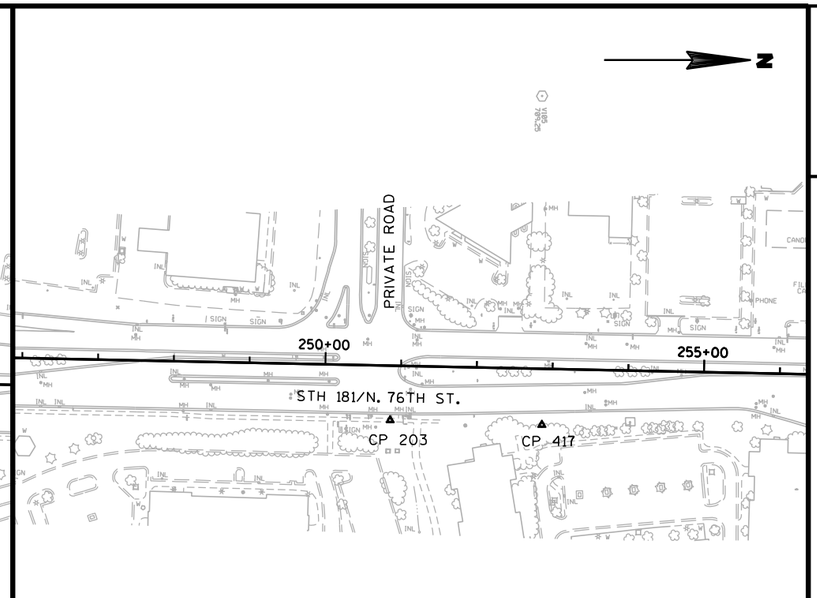
CP 415 (SPIKE)
STA. 224+81.0, 52.90 LT
NORTHING: 349526.38
EASTING: 580204.00

CP 103 (CHK)
STA. 230+24.5, 41.23 LT
NORTHING: 350074.47
EASTING: 580281.24

CP 202
STA. 230+13.0, 365.73 RT
NORTHING: 349969.24
EASTING: 580674.50

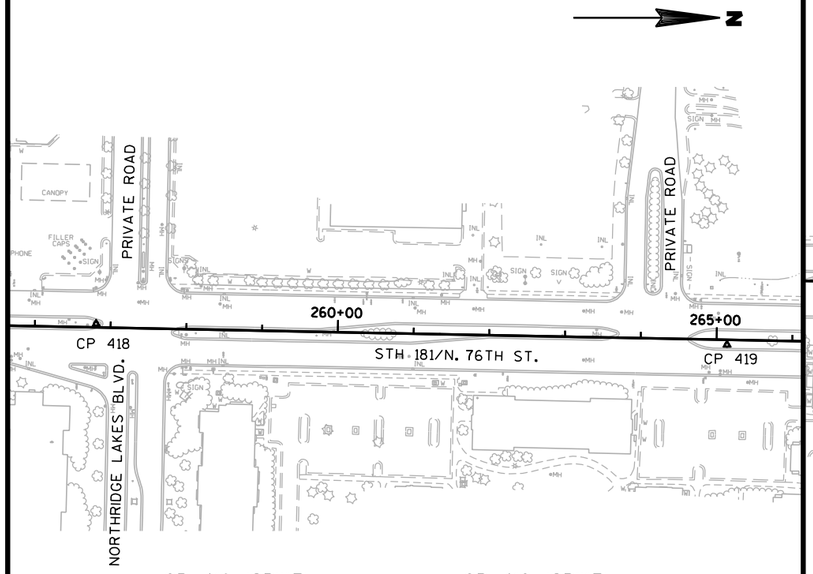


CP 416 (SPIKE)
STA. 241+58.8, 56.62 RT
NORTHING: 351145.16
EASTING: 580685.46



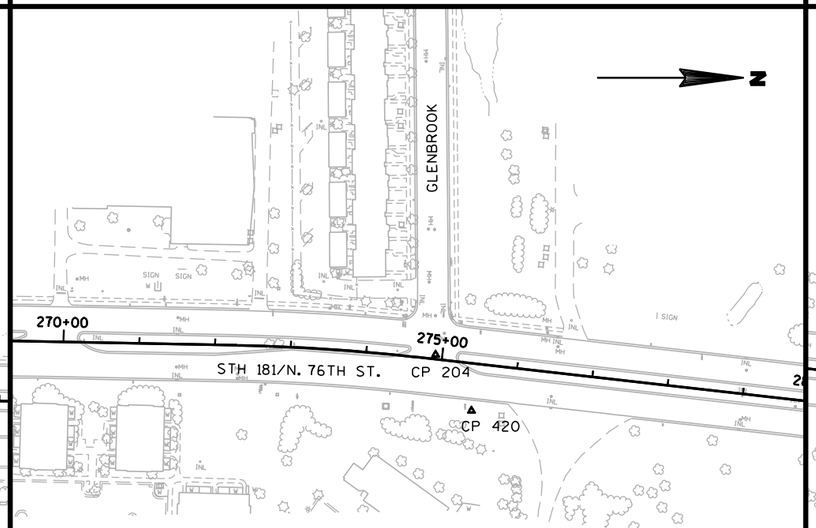
CP 203 (PK)
STA. 250+87.0, 72.16 RT
NORTHING: 352080.30
EASTING: 580749.42

CP 417
STA. 252+87.3, 74.18 RT
NORTHING: 352280.60
EASTING: 580755.52



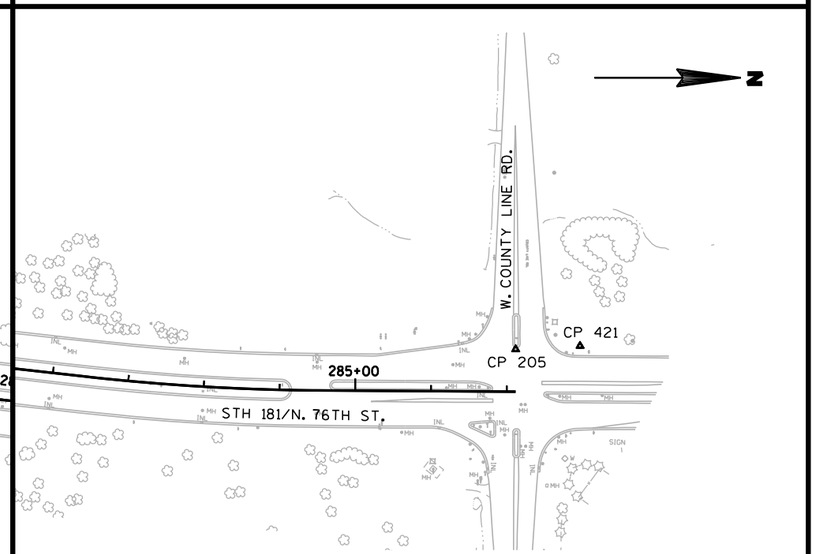
CP 418 (SPIKE)
STA. 256+80.7, 4.71 LT
NORTHING: 352675.49
EASTING: 580684.65

CP 419 (SPIKE)
STA. 265+14.0, 6.50 RT
NORTHING: 353508.41
EASTING: 580712.23



CP 204
STA. 274+91.1, 5.96 LT
NORTHING: 354485.42
EASTING: 580731.86

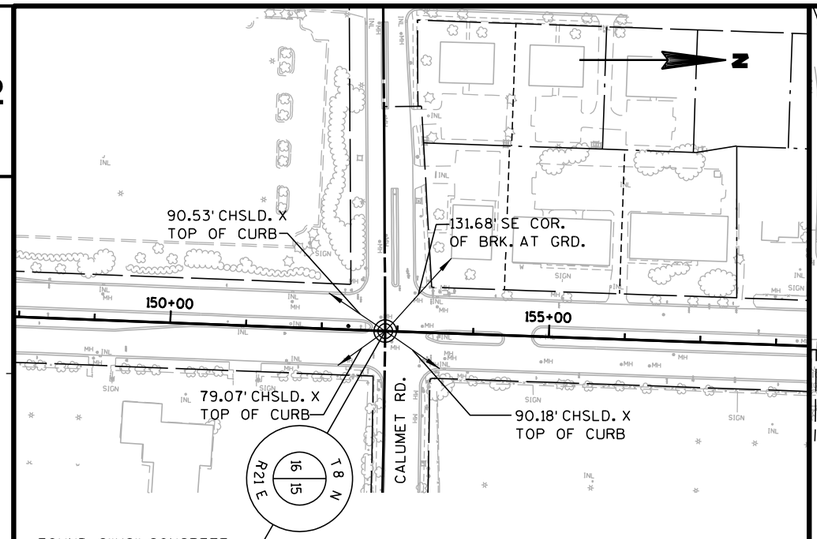
CP 420 (SPIKE)
STA. 275+46.3, 61.86 RT
NORTHING: 354532.67
EASTING: 580805.45



CP 205
STA. 287+11.1, 56.25 LT
NORTHING: 355700.31
EASTING: 580774.76

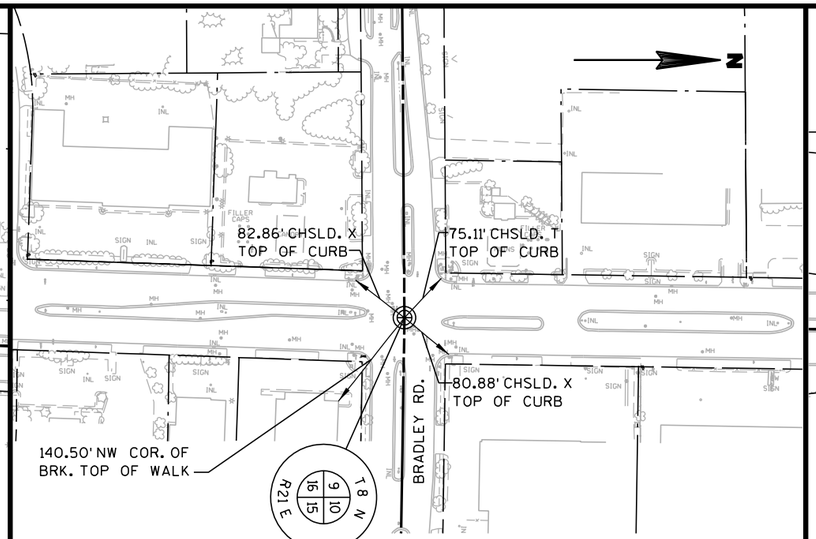
CP 421 (DISK)
STA. N/A
NORTHING: 355785.32
EASTING: 580770.20

PROJECT NO: 2140-08-73	HWY: STH 181-N. 76TH ST.	COUNTY: MILWAUKEE	CONTROL POINT DATA SHEET	SHEET 568 E



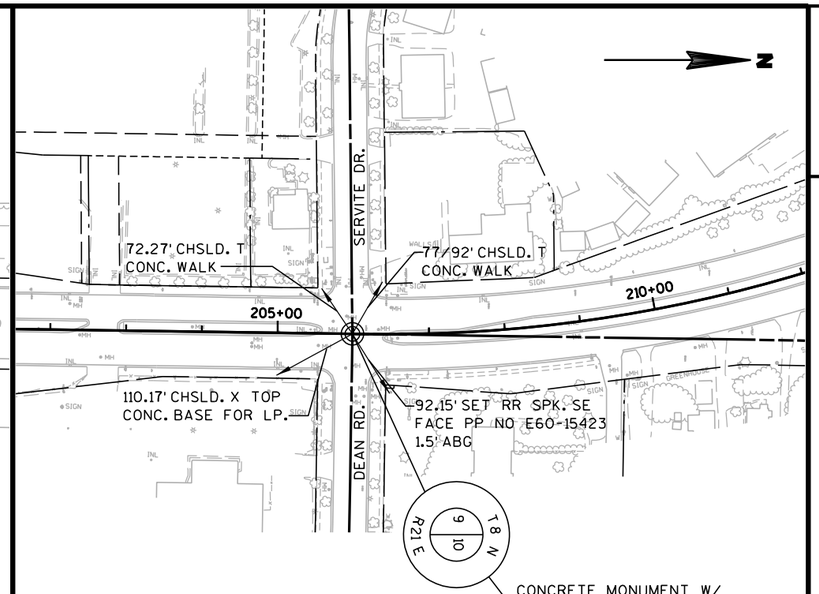
FOUND 6"X6" CONCRETE
MONUMENT W/ CAP
Y = 342380.964
X = 580498.098
P.I. STA. 152+83.97, 0.00 RT

SECTION CORNER
STA. 152+83.97, 0.00 RT
NORTHING: 342380.964
EASTING: 580498.098



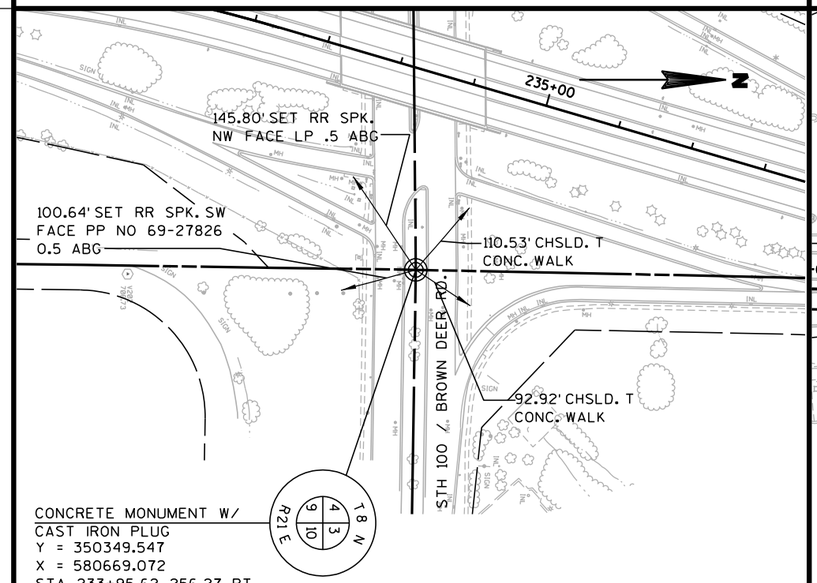
CONCRETE MONUMENT W/
SEWRPC BRASS CP
Y = 345036.291
X = 580590.455
P.I. STA. 179+40.91, 0.00 RT

SECTION CORNER
STA. 179+40.19, 0.00 RT
NORTHING: 345036.292
EASTING: 580590.456



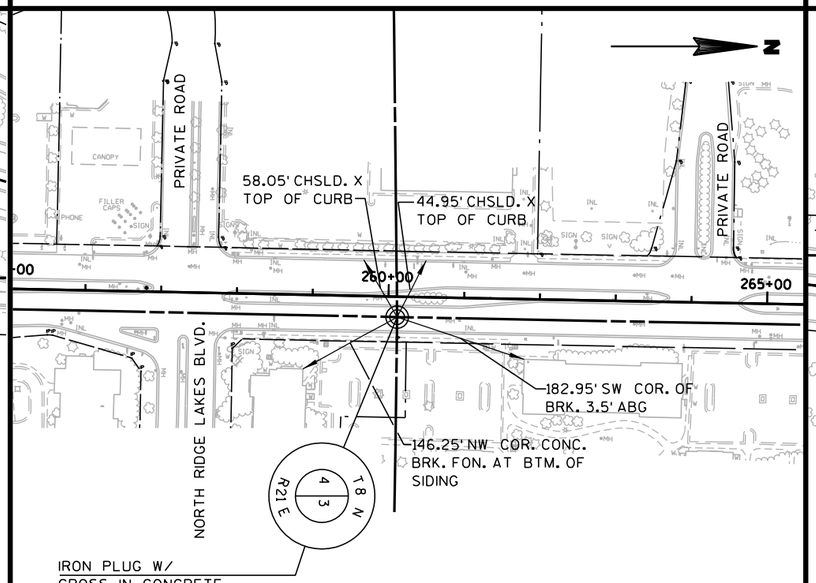
CONCRETE MONUMENT W/
WISDOT ALUMINIUM CAP
Y = 347693.839
X = 580630.050
P.I. STA. 205+98.75, 0.00 RT

SECTION CORNER
STA. 205+98.75, 0.00 RT
NORTHING: 347693.839
EASTING: 580630.050



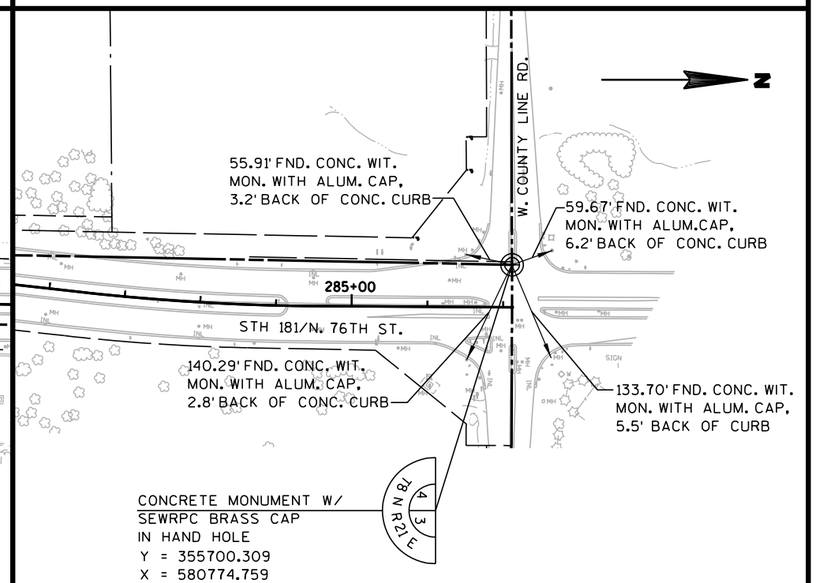
CONCRETE MONUMENT W/
CAST IRON PLUG
Y = 350349.547
X = 580669.072
STA. 233+95.62, 256.27 RT

SECTION CORNER
STA. 233+95.62, 256.27 RT
NORTHING: 350349.547
EASTING: 580669.072



IRON PLUG W/
CROSS IN CONCRETE
Y = 353006.082
X = 580723.060
STA 260+13.92, 26.95 RT

SECTION CORNER
STA. 260+13.92, 26.95 RT
NORTHING: 353006.082
EASTING: 580723.060



CONCRETE MONUMENT W/
SEWRPC BRASS CAP
IN HAND HOLE
Y = 355700.309
X = 580774.759
STA. 287+11.14, 56.25 LT

SECTION CORNER
STA. 287+11.1, 56.25 LT
NORTHING: 355700.309
EASTING: 580774.759

PROJECT NO:2140-08-73	HWY: STH 181-N. 76TH ST.	COUNTY: MILWAUKEE	CONTROL POINT DATA SHEET	SHEET 569 E

DATE 13NOV07 E S T I M A T E O F Q U A N T I T I E S

LINE NUMBER	ITEM	ITEM DESCRIPTION	UNIT	TOTAL	2140-08-73 QUANTITY
0010	203.0200	REMOVING OLD STRUCTURE (STATION) 01. 233+18.80	LS	1.000	1.000
0020	203.0225.S	DEBRIS CONTAINMENT (STRUCTURE) 01. B-40-380	LS	1.000	1.000
0030	203.0225.S	DEBRIS CONTAINMENT (STRUCTURE) 02. B-40-381	LS	1.000	1.000
0040	204.0100	REMOVING PAVEMENT	SY	119,555.000	119,555.000
0050	204.0120	REMOVING ASPHALTIC SURFACE MILLING	SY	6,435.000	6,435.000
0060	204.0125	REMOVING ASPHALTIC SURFACE MILLING	TON	15.000	15.000
0070	204.0150	REMOVING CURB & GUTTER	LF	7,434.000	7,434.000
0080	204.0155	REMOVING CONCRETE SIDEWALK	SY	1,440.000	1,440.000
0090	204.0165	REMOVING GUARDRAIL	LF	145.000	145.000
0100	204.0175	REMOVING CONCRETE SLOPE PAVING	SY	84.000	84.000
0110	204.0195	REMOVING CONCRETE BASES	EACH	68.000	68.000
0120	204.0210	REMOVING MANHOLES	EACH	83.000	83.000
0130	204.0220	REMOVING INLETS	EACH	187.000	187.000
0140	204.0245	REMOVING STORM SEWER (SIZE) 01. 8-INCH	LF	2,129.000	2,129.000
0150	204.0245	REMOVING STORM SEWER (SIZE) 02. 12-INCH	LF	807.000	807.000
0160	204.0245	REMOVING STORM SEWER (SIZE) 03. 15-INCH	LF	596.000	596.000
0170	204.0245	REMOVING STORM SEWER (SIZE) 04. 18-INCH	LF	362.000	362.000
0180	204.0245	REMOVING STORM SEWER (SIZE) 05. 21-INCH	LF	332.000	332.000
0190	204.0245	REMOVING STORM SEWER (SIZE) 06. 24-INCH	LF	340.000	340.000
0200	204.0245	REMOVING STORM SEWER (SIZE) 07. 27-INCH	LF	88.000	88.000
0210	204.0245	REMOVING STORM SEWER (SIZE) 08. 30-INCH	LF	48.000	48.000
0220	204.0245	REMOVING STORM SEWER (SIZE) 09. 36-INCH	LF	104.000	104.000
0230	204.0245	REMOVING STORM SEWER (SIZE) 10. 42-INCH	LF	8.000	8.000
0240	204.0245	REMOVING STORM SEWER (SIZE) 11. 54-INCH	LF	16.000	16.000
0250	204.0280	SEALING PIPES	EACH	3.000	3.000
0260	204.0291.S	ABANDONING SEWER	CY	31.800	31.800
0270	204.9060.S	REMOVING (ITEM DESCRIPTION) 01. BOLLARDS	EACH	16.000	16.000
0280	205.0100	EXCAVATION COMMON	CY	116,455.000	116,455.000
0290	205.0501.S	EXCAVATION, HAULING, AND DISPOSAL OF PETROLEUM CONTAMINATED SOIL	TON	425.000	425.000
0300	210.0100	BACKFILL STRUCTURE	CY	38.000	38.000
0310	213.0100	FINISHING ROADWAY (PROJECT) 01. 2140-08-73	EACH	1.000	1.000
0320	305.0110	BASE AGGREGATE DENSE 3/4-INCH	TON	2,850.000	2,850.000
0330	305.0120	BASE AGGREGATE DENSE 1 1/4-INCH	TON	142,784.000	142,784.000
0340	311.0110	BREAKER RUN	TON	13,760.000	13,760.000
0350	415.0090	CONCRETE PAVEMENT 9-INCH	SY	1,465.000	1,465.000
0360	415.2000.S	INCENTIVE STRENGTH CONCRETE PAVEMENT	DOL	504.000	504.000
0370	416.0050	CONCRETE PAVEMENT APPROACH SLAB	SY	724.000	724.000
0380	416.0160	CONCRETE DRIVEWAY 6-INCH	SY	442.000	442.000
0390	416.0260	CONCRETE DRIVEWAY HES 6-INCH	SY	485.000	485.000
0400	416.0620	PAVEMENT DOWEL BARS	EACH	306.000	306.000
0410	416.0710	CONCRETE PAVEMENT REPAIR	CY	28.100	28.100
0420	440.4410.S	INCENTIVE IRI RIDE	DOL	13,960.000	13,960.000
0430	455.0115	ASPHALTIC MATERIAL PG64-22	TON	1,707.000	1,707.000
0440	455.0120	ASPHALTIC MATERIAL PG64-28	TON	767.000	767.000
0450	455.0605	TACK COAT	GAL	5,911.000	5,911.000
0460	460.1110	HMA PAVEMENT TYPE E-10	TON	41,196.000	41,196.000
0470	460.2000	INCENTIVE DENSITY HMA PAVEMENT	DOL	26,366.000	26,366.000
0480	465.0110	ASPHALTIC SURFACE PATCHING	TON	100.000	100.000
0490	465.0120	ASPHALTIC SURFACE DRIVEWAYS AND FIELD ENTRANCES	TON	146.000	146.000

3

DATE 13NOV07 E S T I M A T E O F Q U A N T I T I E S

LINE NUMBER	ITEM	ITEM DESCRIPTION	UNIT	TOTAL	2140-08-73 QUANTITY
0500	465.0125	ASPHALTIC SURFACE TEMPORARY	TON	5,515.000	5,515.000
0510	502.0100	CONCRETE MASONRY BRIDGES	CY	447.000	447.000
0520	502.0400.S	INCENTIVE STRENGTH CONCRETE STRUCTURES	DOL	3,576.000	3,576.000
0530	502.2000	COMPRESSION JOINT SEALER PREFORMED ELASTOMERIC (WIDTH) 01. 3-INCH	LF	199.000	199.000
0540	502.3100	EXPANSION DEVICE (STRUCTURE) 01. B-40-404	LS	1.000	1.000
0550	502.3200	PROTECTIVE SURFACE TREATMENT	SY	2,447.000	2,447.000
0560	502.5005	MASONRY ANCHORS TYPE L NO. 5 BARS	EACH	788.000	788.000
0570	505.0605	BAR STEEL REINFORCEMENT HS COATED BRIDGES	LB	181,030.000	181,030.000
0580	506.2610	BEARING PADS ELASTOMERIC LAMINATED	EACH	24.000	24.000
0590	506.3010	WELDED STUD SHEAR CONNECTORS 7/8X5-INCH	EACH	612.000	612.000
0600	506.5000	BEARING ASSEMBLIES FIXED (STRUCTURE) 01. B-40-404	EACH	12.000	12.000
0610	506.7050.S	REMOVING BEARINGS (STRUCTURE) 01. B-40-404	EACH	36.000	36.000
0620	509.1500	CONCRETE SURFACE REPAIR	SF	855.000	855.000
0630	516.0500	RUBBERIZED MEMBRANE WATERPROOFING	SY	50.000	50.000
0640	517.0900.S	PREPARATION AND COATING OF TOP FLANGES	LS	1.000	1.000
0650	517.1800.S	STRUCTURE REPAINTING RECYCLED ABRASIVE (STRUCTURE) 01. B-40-380	LS	1.000	1.000
0660	517.1800.S	STRUCTURE REPAINTING RECYCLED ABRASIVE (STRUCTURE) 02. B-40-381	LS	1.000	1.000
0670	517.1800.S	STRUCTURE REPAINTING RECYCLED ABRASIVE (STRUCTURE) 03. B-40-404	LS	1.000	1.000
0680	517.3000.S	STRUCTURE OVERCOATING CLEANING AND PRIMING (STRUCTURE) 01. B-40-380	LS	1.000	1.000
0690	517.3000.S	STRUCTURE OVERCOATING CLEANING AND PRIMING (STRUCTURE) 02. B-40-381	LS	1.000	1.000
0700	517.4000.S	CONTAINMENT AND COLLECTION OF WASTE MATERIALS (STRUCTURE) 01. B-40-380	LS	1.000	1.000
0710	517.4000.S	CONTAINMENT AND COLLECTION OF WASTE MATERIALS (STRUCTURE) 02. B-40-381	LS	1.000	1.000
0720	517.4000.S	CONTAINMENT AND COLLECTION OF WASTE MATERIALS (STRUCTURE) 03. B-40-404	LS	1.000	1.000
0730	517.4500.S	NEGATIVE PRESSURE CONTAINMENT AND COLLECTION OF WASTE MATERIALS (STRUCTURE) 01. B-40-380	LS	1.000	1.000
0740	517.4500.S	NEGATIVE PRESSURE CONTAINMENT AND COLLECTION OF WASTE MATERIALS (STRUCTURE) 02. B-40-381	LS	1.000	1.000
0750	517.4500.S	NEGATIVE PRESSURE CONTAINMENT AND COLLECTION OF WASTE MATERIALS (STRUCTURE) 03. B-40-404	LS	1.000	1.000
0760	517.6001.S	PORTABLE DECONTAMINATION FACILITY	EACH	1.000	1.000
0770	520.8000.S	CULVERT PIPE CONCRETE COLLAR	EACH	208.000	208.000
0780	532.0200.S	WALL MODULAR BLOCK GRAVITY	SF	2,620.000	2,620.000
0790	601.0120	CONCRETE CURB TYPE J	LF	295.000	295.000
0800	601.0407	CONCRETE CURB & GUTTER 18-INCH TYPE D	LF	13,570.000	13,570.000
0810	601.0409	CONCRETE CURB & GUTTER 30-INCH TYPE A	LF	54.000	54.000
0820	601.0411	CONCRETE CURB & GUTTER 30-INCH TYPE D	LF	24,958.000	24,958.000
0830	601.0413	CONCRETE CURB & GUTTER 30-INCH TYPE G	LF	760.000	760.000
0840	601.0415	CONCRETE CURB & GUTTER 30-INCH TYPE J	LF	13,390.000	13,390.000
0850	601.0452	CONCRETE CURB & GUTTER INTEGRAL 30-INCH TYPE D	LF	640.000	640.000

3

DATE 13NOV07 E S T I M A T E O F Q U A N T I T I E S

LINE NUMBER	ITEM	ITEM DESCRIPTION	UNIT	TOTAL	2140-08-73 QUANTITY
0860	601.0454	CONCRETE CURB & GUTTER INTEGRAL 30-INCH TYPE J	LF	320.000	320.000
0870	601.0600	CONCRETE CURB PEDESTRIAN	LF	625.000	625.000
0880	602.0410	CONCRETE SIDEWALK 5-INCH	SF	113,191.000	113,191.000
0890	602.0415	CONCRETE SIDEWALK 6-INCH	SF	7,000.000	7,000.000
0900	602.0505	CURB RAMP DETECTABLE WARNING FIELD YELLOW	SF	1,096.000	1,096.000
0910	603.0500	CONCRETE BARRIER TEMPORARY PRECAST CONTRACTOR FURNISHED & DELIVERED	LF	337.500	337.500
0920	603.0801	CONCRETE BARRIER TEMPORARY PRECAST CONTRACTOR INSTALLED	LF	675.000	675.000
0930	604.0400	SLOPE PAVING CONCRETE	SY	84.000	84.000
0940	608.0312	STORM SEWER PIPE REINFORCED CONCRETE CLASS III 12-INCH	LF	5,312.000	5,312.000
0950	608.0315	STORM SEWER PIPE REINFORCED CONCRETE CLASS III 15-INCH	LF	864.000	864.000
0960	608.0318	STORM SEWER PIPE REINFORCED CONCRETE CLASS III 18-INCH	LF	411.000	411.000
0970	608.0321	STORM SEWER PIPE REINFORCED CONCRETE CLASS III 21-INCH	LF	277.000	277.000
0980	608.0324	STORM SEWER PIPE REINFORCED CONCRETE CLASS III 24-INCH	LF	369.000	369.000
0990	608.0327	STORM SEWER PIPE REINFORCED CONCRETE CLASS III 27-INCH	LF	88.000	88.000
1000	608.0330	STORM SEWER PIPE REINFORCED CONCRETE CLASS III 30-INCH	LF	48.000	48.000
1010	608.0336	STORM SEWER PIPE REINFORCED CONCRETE CLASS III 36-INCH	LF	104.000	104.000
1020	608.0342	STORM SEWER PIPE REINFORCED CONCRETE CLASS III 42-INCH	LF	8.000	8.000
1030	608.0354	STORM SEWER PIPE REINFORCED CONCRETE CLASS III 54-INCH	LF	16.000	16.000
1040	611.0101	CATCH BASINS TYPE 1	EACH	2.000	2.000
1050	611.0201	MANHOLES TYPE 1	EACH	95.000	95.000
1060	611.0210	MANHOLES TYPE 3	EACH	11.000	11.000
1070	611.0303	INLETS TYPE 3	EACH	221.000	221.000
1080	611.0305	INLETS TYPE 8	EACH	12.000	12.000
1090	611.0530	MANHOLE COVERS TYPE J	EACH	102.000	102.000
1100	611.0624	INLET COVERS TYPE H	EACH	75.000	75.000
1110	611.0630	INLET COVERS TYPE HM-GJ	EACH	120.000	120.000
1120	611.0633	INLET COVERS TYPE HM-GJ-S	EACH	13.000	13.000
1130	611.0639	INLET COVERS TYPE H-S	EACH	18.000	18.000
1140	611.0642	INLET COVERS TYPE MS	EACH	12.000	12.000
1150	611.8110	ADJUSTING MANHOLE COVERS	EACH	47.000	47.000
1160	611.8115	ADJUSTING INLET COVERS	EACH	8.000	8.000
1170	611.8120.S	COVER PLATES TEMPORARY	EACH	28.000	28.000
1180	614.0150	ANCHOR ASSEMBLIES FOR STEEL PLATE BEAM GUARD	EACH	4.000	4.000
1190	614.0200	STEEL THRIE BEAM STRUCTURE APPROACH	LF	124.200	124.200
1200	614.0250	STEEL THRIE BEAM STRUCTURE APPROACH TEMPORARY	LF	41.400	41.400
1210	614.0305	STEEL PLATE BEAM GUARD CLASS A	LF	225.000	225.000
1220	614.0360	STEEL PLATE BEAM GUARD TEMPORARY	LF	25.000	25.000
1230	614.0370	STEEL PLATE BEAM GUARD ENERGY ABSORBING TERMINAL	EACH	6.000	6.000
1240	614.0380	STEEL PLATE BEAM GUARD ENERGY ABSORBING TERMINAL TEMPORARY	EACH	2.000	2.000

DATE 13NOV07 E S T I M A T E O F Q U A N T I T I E S

LINE NUMBER	ITEM	ITEM DESCRIPTION	UNIT	TOTAL	2140-08-73 QUANTITY
1250	616.0700.S	FENCE SAFETY	LF	3,304.000	3,304.000
1260	619.1000	MOBILIZATION	EACH	1.000	1.000
1270	620.0300	CONCRETE MEDIAN SLOPED NOSE	SF	3,470.000	3,470.000
1280	621.0100	LANDMARK REFERENCE MONUMENTS	EACH	19.000	19.000
1290	623.0200	DUST CONTROL SURFACE TREATMENT	SY	183,500.000	183,500.000
1300	624.0100	WATER	MGAL	490.000	490.000
1310	625.0100	TOPSOIL	SY	45,380.000	45,380.000
1320	625.0500	SALVAGED TOPSOIL	SY	22,125.000	22,125.000
1330	627.0200	MULCHING	SY	7,355.000	7,355.000
1340	628.1504	SILT FENCE	LF	5,540.000	5,540.000
1350	628.1520	SILT FENCE MAINTENANCE	LF	11,080.000	11,080.000
1360	628.1905	MOBILIZATIONS EROSION CONTROL	EACH	4.000	4.000
1370	628.1910	MOBILIZATIONS EMERGENCY EROSION CONTROL	EACH	4.000	4.000
1380	628.2006	EROSION MAT URBAN CLASS I TYPE A	SY	73,970.000	73,970.000
1390	628.7005	INLET PROTECTION TYPE A	EACH	231.000	231.000
1400	628.7010	INLET PROTECTION TYPE B	EACH	9.000	9.000
1410	628.7015	INLET PROTECTION TYPE C	EACH	367.000	367.000
1420	628.7020	INLET PROTECTION TYPE D	EACH	27.000	27.000
1430	629.0210	FERTILIZER TYPE B	CWT	62.000	62.000
1440	630.0130	SEEDING MIXTURE NO. 30	LB	1,370.000	1,370.000
1450	630.0200	SEEDING TEMPORARY	LB	1,051.000	1,051.000
1460	630.0300	SEEDING BORROW PIT	LB	830.000	830.000
1470	631.0300	SOD WATER	MGAL	10.000	10.000
1480	631.1000	SOD LAWN	SY	450.000	450.000
1490	634.0414	POSTS WOOD 4X4-INCH X 14-FT	EACH	43.000	43.000
1500	634.0614	POSTS WOOD 4X6-INCH X 14-FT	EACH	217.000	217.000
1510	634.0616	POSTS WOOD 4X6-INCH X 16-FT	EACH	55.000	55.000
1520	634.0618	POSTS WOOD 4X6-INCH X 18-FT	EACH	2.000	2.000
1530	637.0202	SIGNS REFLECTIVE TYPE II	SF	2,737.000	2,737.000
1540	638.2102	MOVING SIGNS TYPE II	EACH	213.000	213.000
1550	638.2602	REMOVING SIGNS TYPE II	EACH	358.000	358.000
1560	638.3000	REMOVING SMALL SIGN SUPPORTS	EACH	220.000	220.000
1570	638.4000	MOVING SMALL SIGN SUPPORTS	EACH	171.000	171.000
1580	641.8100	OVERHEAD SIGN SUPPORT (STRUCTURE) 01. S-40-918	LS	1.000	1.000
1590	642.5401	FIELD OFFICE TYPE D	EACH	1.000	1.000
1600	643.0200	TRAFFIC CONTROL SURVEILLANCE AND MAINTENANCE (PROJECT) 01. 2140-08-73	DAYS	229.000	229.000
1610	643.0300	TRAFFIC CONTROL DRUMS	DAYS	154,844.000	154,844.000
1620	643.0410	TRAFFIC CONTROL BARRICADES TYPE II	DAYS	5,985.000	5,985.000
1630	643.0420	TRAFFIC CONTROL BARRICADES TYPE III	DAYS	11,320.000	11,320.000
1640	643.0500	TRAFFIC CONTROL FLEXIBLE TUBULAR MARKER POSTS	EACH	2,958.000	2,958.000
1650	643.0600	TRAFFIC CONTROL FLEXIBLE TUBULAR MARKER BASES	EACH	2,958.000	2,958.000
1660	643.0705	TRAFFIC CONTROL WARNING LIGHTS TYPE A	DAYS	13,708.000	13,708.000
1670	643.0715	TRAFFIC CONTROL WARNING LIGHTS TYPE C	DAYS	22,748.000	22,748.000
1680	643.0800	TRAFFIC CONTROL ARROW BOARDS	DAYS	2,088.000	2,088.000
1690	643.0900	TRAFFIC CONTROL SIGNS	DAYS	28,104.000	28,104.000
1700	643.0905.S	TRAFFIC CONTROL COVERING SIGNS	EACH	20.000	20.000
1710	643.1050.S	TRAFFIC CONTROL SIGNS PORTABLE CHANGEABLE MESSAGE	DAY	748.000	748.000
1720	643.3000	TRAFFIC CONTROL DETOUR SIGNS	DAYS	28,026.000	28,026.000
1730	646.0106	PAVEMENT MARKING EPOXY 4-INCH	LF	15,885.000	15,885.000

3

DATE 13NOV07 E S T I M A T E O F Q U A N T I T I E S

LINE NUMBER	ITEM	ITEM DESCRIPTION	UNIT	TOTAL	2140-08-73 QUANTITY
1740	646.0126	PAVEMENT MARKING EPOXY 8-INCH	LF	14,848.000	14,848.000
1750	646.0600	REMOVING PAVEMENT MARKINGS	LF	8,316.000	8,316.000
1760	646.0871.S	PAVEMENT MARKING WET REFLECTIVE TAPE 4-INCH	LF	9,000.000	9,000.000
1770	646.0881.S	PAVEMENT MARKING GROOVED WET REFLECTIVE TAPE 4-INCH	LF	1,373.000	1,373.000
1780	647.0166	PAVEMENT MARKING ARROWS EPOXY TYPE 2	EACH	2.000	2.000
1790	647.0176	PAVEMENT MARKING ARROWS EPOXY TYPE 3	EACH	2.000	2.000
1800	647.0356	PAVEMENT MARKING WORDS EPOXY	EACH	2.000	2.000
1810	647.0456	PAVEMENT MARKING CURB EPOXY	LF	1,181.000	1,181.000
1820	647.0566	PAVEMENT MARKING STOP LINE EPOXY 18-INCH	LF	891.000	891.000
1830	647.0606	PAVEMENT MARKING ISLAND NOSE EPOXY	EACH	44.000	44.000
1840	647.0726	PAVEMENT MARKING DIAGONAL EPOXY 12-INCH	LF	2,859.000	2,859.000
1850	647.0766	PAVEMENT MARKING CROSSWALK EPOXY 6-INCH	LF	3,691.000	3,691.000
1860	649.0100	TEMPORARY PAVEMENT MARKING 4-INCH	LF	44,592.000	44,592.000
1870	649.0400	TEMPORARY PAVEMENT MARKING REMOVABLE TAPE 4-INCH	LF	75,015.000	75,015.000
1880	649.0701	TEMPORARY PAVEMENT MARKING 8-INCH	LF	2,700.000	2,700.000
1890	649.0801	TEMPORARY PAVEMENT MARKING REMOVABLE TAPE 8-INCH	LF	2,455.000	2,455.000
1900	649.1100	TEMPORARY PAVEMENT MARKING STOP LINE 18-INCH	LF	580.000	580.000
1910	649.1200	TEMPORARY PAVEMENT MARKING STOP LINE REMOVABLE TAPE 18-INCH	LF	1,360.000	1,360.000
1920	649.1700	TEMPORARY PAVEMENT MARKING ARROWS	EACH	22.000	22.000
1930	649.1800	TEMPORARY PAVEMENT MARKING ARROWS REMOVABLE TAPE	EACH	23.000	23.000
1940	649.1900	TEMPORARY PAVEMENT MARKING WORDS	EACH	22.000	22.000
1950	649.2000	TEMPORARY PAVEMENT MARKING WORDS REMOVABLE TAPE	EACH	23.000	23.000
1960	650.4000	CONSTRUCTION STAKING STORM SEWER SYSTEM	EACH	342.000	342.000
1970	650.4500	CONSTRUCTION STAKING SUBGRADE	LF	34,726.000	34,726.000
1980	650.5000	CONSTRUCTION STAKING BASE	LF	34,470.000	34,470.000
1990	650.5500	CONSTRUCTION STAKING CURB GUTTER AND CURB & GUTTER	LF	73,122.000	73,122.000
2000	650.7000	CONSTRUCTION STAKING CONCRETE PAVEMENT	LF	1,471.000	1,471.000
2010	650.8500	CONSTRUCTION STAKING ELECTRICAL INSTALLATIONS (PROJECT) 01. 2140-08-73	LS	1.000	1.000
2020	650.9910	CONSTRUCTION STAKING SUPPLEMENTAL CONTROL	LS	1.000	1.000
2030	650.9920	CONSTRUCTION STAKING SLOPE STAKES	LF	34,726.000	34,726.000
2040	652.0130	CONDUIT RIGID METALLIC 2 1/2-INCH	LF	140.000	140.000
2050	652.0220	CONDUIT RIGID NONMETALLIC SCHEDULE 40 1 1/2-INCH	LF	120.000	120.000
2060	652.0225	CONDUIT RIGID NONMETALLIC SCHEDULE 40 2-INCH	LF	16,602.000	16,602.000
2070	652.0230	CONDUIT RIGID NONMETALLIC SCHEDULE 40 2 1/2-INCH	LF	28,780.000	28,780.000
2080	652.0235	CONDUIT RIGID NONMETALLIC SCHEDULE 40 3-INCH	LF	7,196.000	7,196.000
2090	652.0605	CONDUIT SPECIAL 2-INCH	LF	180.000	180.000
2100	652.0800	CONDUIT LOOP DETECTOR	LF	8,532.000	8,532.000
2110	653.0135	PULL BOXES STEEL 24X36-INCH	EACH	64.000	64.000
2120	653.0140	PULL BOXES STEEL 24X42-INCH	EACH	82.000	82.000
2130	653.0222	JUNCTION BOXES 18X12X6-INCH	EACH	2.000	2.000
2140	654.0101	CONCRETE BASES TYPE 1	EACH	42.000	42.000

3

DATE 13NOV07 E S T I M A T E O F Q U A N T I T I E S

LINE NUMBER	ITEM	ITEM DESCRIPTION	UNIT	TOTAL	2140-08-73 QUANTITY
2150	654.0102	CONCRETE BASES TYPE 2	EACH	40.000	40.000
2160	654.0105	CONCRETE BASES TYPE 5	EACH	1.000	1.000
2170	654.0217	CONCRETE CONTROL CABINET BASES TYPE 9 SPECIAL	EACH	6.000	6.000
2180	655.0230	CABLE TRAFFIC SIGNAL 5-14 AWG	LF	3,593.000	3,593.000
2190	655.0240	CABLE TRAFFIC SIGNAL 7-14 AWG	LF	460.000	460.000
2200	655.0260	CABLE TRAFFIC SIGNAL 12-14 AWG	LF	15,090.000	15,090.000
2210	655.0305	CABLE TYPE UF 2-12 AWG GROUNDED	LF	3,967.000	3,967.000
2220	655.0410	COMMUNICATION CABLE INSTALLED IN CONDUIT	LF	14,755.000	14,755.000
2230	655.0515	ELECTRICAL WIRE TRAFFIC SIGNALS 10 AWG	LF	9,181.000	9,181.000
2240	655.0610	ELECTRICAL WIRE LIGHTING 12 AWG	LF	5,886.000	5,886.000
2250	655.0700	LOOP DETECTOR LEAD IN CABLE	LF	26,222.000	26,222.000
2260	655.0800	LOOP DETECTOR WIRE	LF	25,096.000	25,096.000
2270	656.0200	ELECTRICAL SERVICE METER BREAKER PEDESTAL (LOCATION) 01. CALUMET ROAD	LS	1.000	1.000
2280	656.0200	ELECTRICAL SERVICE METER BREAKER PEDESTAL (LOCATION) 02. BRADLEY ROAD	LS	1.000	1.000
2290	656.0200	ELECTRICAL SERVICE METER BREAKER PEDESTAL (LOCATION) 03. TOWER AVENUE	LS	1.000	1.000
2300	656.0200	ELECTRICAL SERVICE METER BREAKER PEDESTAL (LOCATION) 04. SERVITE DRIVE/DEAN ROAD	LS	1.000	1.000
2310	656.0200	ELECTRICAL SERVICE METER BREAKER PEDESTAL (LOCATION) 07. NORTHRIDGE DRIVE	LS	1.000	1.000
2320	656.0200	ELECTRICAL SERVICE METER BREAKER PEDESTAL (LOCATION) 08. NORTHRIDGE LAKES BOULEVARD	LS	1.000	1.000
2330	661.0200	TEMPORARY TRAFFIC SIGNALS FOR INTERSECTIONS (LOCATION) 01. CALUMET ROAD	LS	1.000	1.000
2340	661.0200	TEMPORARY TRAFFIC SIGNALS FOR INTERSECTIONS (LOCATION) 02. BRADLEY ROAD	LS	1.000	1.000
2350	661.0200	TEMPORARY TRAFFIC SIGNALS FOR INTERSECTIONS (LOCATION) 03. TOWER AVENUE	LS	1.000	1.000
2360	661.0200	TEMPORARY TRAFFIC SIGNALS FOR INTERSECTIONS (LOCATION) 04. SERVITE DRIVE/DEAN ROAD	LS	1.000	1.000
2370	661.0200	TEMPORARY TRAFFIC SIGNALS FOR INTERSECTIONS (LOCATION) 07. NORTHRIDGE DRIVE	LS	1.000	1.000
2380	661.0200	TEMPORARY TRAFFIC SIGNALS FOR INTERSECTIONS (LOCATION) 08. NORTHRIDGE LAKES BOULEVARD	LS	1.000	1.000
2390	690.0100	SAWING EXISTING PAVEMENT	LF	9,930.000	9,930.000
2400	690.0200	SAWING CONCRETE PAVEMENT FULL DEPTH	LF	16,536.000	16,536.000
2410	ASP.1T0A	ON-THE-JOB TRAINING APPRENTICE AT $5.00/HR	HRS	700.000	700.000
2420	ASP.1T0G	ON-THE-JOB TRAINING GRADUATE AT $5.00/HR	HRS	2,900.000	2,900.000
2430	SPV.0060	SPECIAL 01. MARKER POST FLEXIBLE FOR GUARD RAIL TERMINAL	EACH	6.000	6.000
2440	SPV.0060	SPECIAL 02. ADJUSTING WATER SERVICE BOXES	EACH	43.000	43.000
2450	SPV.0060	SPECIAL 03. ADJUSTING WATER GATE VALVES	EACH	139.000	139.000
2460	SPV.0060	SPECIAL 04. WATER MAIN PROTECTION	EACH	9.000	9.000
2470	SPV.0060	SPECIAL 05. MANHOLE COVER TYPE 58A	EACH	44.000	44.000

3

DATE 13NOV07 E S T I M A T E O F Q U A N T I T I E S

LINE NUMBER	ITEM	ITEM DESCRIPTION	UNIT	TOTAL	2140-08-73 QUANTITY
2480	SPV.0060	SPECIAL 06. INTERNAL SANITARY MANHOLE SEALS	EACH	44.000	44.000
2490	SPV.0060	SPECIAL 07. ADJUSTING TES MANHOLE COVER	EACH	18.000	18.000
2500	SPV.0060	SPECIAL 08. LANDMARK REFERENCE MONUMENTS SPECIAL	EACH	4.000	4.000
2510	SPV.0060	SPECIAL 09. REMOVING PULL BOXES	EACH	94.000	94.000
2520	SPV.0060	SPECIAL 10. POLYMER CONCRETE VAULT (13" W X 24" D X 18" H)	EACH	17.000	17.000
2530	SPV.0060	SPECIAL 11. INLET COVERS TYPE H-D	EACH	1.000	1.000
2540	SPV.0060	SPECIAL 12. ANCHOR ASSEMBLIES LIGHT POLES	EACH	2.000	2.000
2550	SPV.0060	SPECIAL 13. CONSTRUCTION STAKING CURB RAMP	EACH	26.000	26.000
2560	SPV.0090	SPECIAL 01. STORM SEWER CLEANING AND TELEVISING	LF	11,635.000	11,635.000
2570	SPV.0090	SPECIAL 02. CONCRETE CURB AND GUTTER TYPE SPECIAL SLOPING CURB 18-INCH	LF	18,510.000	18,510.000
2580	SPV.0105	SPECIAL 01. RESEARCH AND LOCATE EXISTING PROPERTY MONUMENTS	LS	1.000	1.000
2590	SPV.0105	SPECIAL 02. VERIFY AND REPLACE EXISTING PROPERTY MONUMENTS	LS	1.000	1.000
2600	SPV.0105	SPECIAL 03. REMOVE TRAFFIC SIGNALS, CALUMET ROAD	LS	1.000	1.000
2610	SPV.0105	SPECIAL 04. REMOVE TRAFFIC SIGNALS, BRADLEY ROAD	LS	1.000	1.000
2620	SPV.0105	SPECIAL 05. REMOVE TRAFFIC SIGNALS, TOWER AVENUE	LS	1.000	1.000
2630	SPV.0105	SPECIAL 06. REMOVE TRAFFIC SIGNALS, SERVITE DRIVE/DEAN ROAD	LS	1.000	1.000
2640	SPV.0105	SPECIAL 07. REMOVE TRAFFIC SIGNALS, STH 100 (BROWN DEER ROAD)	LS	1.000	1.000
2650	SPV.0105	SPECIAL 09. REMOVE TRAFFIC SIGNALS, NORTHRIDGE DRIVE	LS	1.000	1.000
2660	SPV.0105	SPECIAL 10. REMOVE TRAFFIC SIGNALS, NORTHRIDGE LAKES BOULEVARD	LS	1.000	1.000
2670	SPV.0105	SPECIAL 11. TRAFFIC SIGNALS AND INTERSECTION LIGHTING, CALUMET ROAD	LS	1.000	1.000
2680	SPV.0105	SPECIAL 12. TRAFFIC SIGNALS AND INTERSECTION LIGHTING, BRADLEY ROAD	LS	1.000	1.000
2690	SPV.0105	SPECIAL 13. TRAFFIC SIGNALS AND INTERSECTION LIGHTING, TOWER AVENUE	LS	1.000	1.000
2700	SPV.0105	SPECIAL 14. TRAFFIC SIGNALS AND INTERSECTION LIGHTING, SERVITE DRIVE/DEAN ROAD	LS	1.000	1.000
2710	SPV.0105	SPECIAL 15. TRAFFIC SIGNALS AND INTERSECTION LIGHTING, STH 100 (BROWN DEER ROAD)	LS	1.000	1.000
2720	SPV.0105	SPECIAL 17. TRAFFIC SIGNALS AND INTERSECTION LIGHTING, NORTHRIDGE DRIVE	LS	1.000	1.000
2730	SPV.0105	SPECIAL 18. TRAFFIC SIGNALS AND INTERSECTION LIGHTING, NORTHRIDGE LAKES BOULEVARD	LS	1.000	1.000
2740	SPV.0105	SPECIAL 19. TRANSPORT EXISTING TRAFFIC SIGNALS, CALUMET ROAD	LS	1.000	1.000
2750	SPV.0105	SPECIAL 20. TRANSPORT EXISTING TRAFFIC SIGNALS, BRADLEY ROAD	LS	1.000	1.000
2760	SPV.0105	SPECIAL 21. TRANSPORT EXISTING TRAFFIC SIGNALS, TOWER AVENUE	LS	1.000	1.000

3

DATE 13NOV07 E S T I M A T E O F Q U A N T I T I E S

LINE NUMBER	ITEM	ITEM DESCRIPTION	UNIT	TOTAL	2140-08-73 QUANTITY
2770	SPV.0105	SPECIAL 22. TRANSPORT EXISTING TRAFFIC SIGNALS, SERVITE DRIVE/DEAN ROAD	LS	1.000	1.000
2780	SPV.0105	SPECIAL 23. TRANSPORT EXISTING TRAFFIC SIGNALS, STH 100 (BROWN DEER ROAD)	LS	1.000	1.000
2790	SPV.0105	SPECIAL 25. TRANSPORT EXISTING TRAFFIC SIGNALS, NORTHRIDGE DRIVE	LS	1.000	1.000
2800	SPV.0105	SPECIAL 26. TRANSPORT EXISTING TRAFFIC SIGNALS, NORTHRIDGE LAKES BOULEVARD	LS	1.000	1.000
2810	SPV.0105	SPECIAL 27. TEMP TRAF SIG INTERSECTIONS PARTIAL STH 181 (N 76) & STH 100 (BRWN DEER RD)	LS	1.000	1.000
2820	SPV.0105	SPECIAL 28. UTILITY PROTECTION STRUCTURE B-40-380 CITY OF MILWAUKEE	LS	1.000	1.000
2830	SPV.0105	SPECIAL 29. UTILITY PROTECTION STRUCTURE B-40-381 WE ENERGIES - ELECTRIC	LS	1.000	1.000
2840	SPV.0120	SPECIAL 01. WATER FOR SEEDED AREAS	MGAL	2,344.000	2,344.000
2850	SPV.0165	SPECIAL 01. CONCRETE SIDEWALK HES 6-INCH	SF	3,770.000	3,770.000
2860	SPV.0170	SPECIAL 01. TEST ROLLING	STA	280.000	280.000

3

REMOVING PAVEMENT

CATEGORY	STAGE	STATION - STATION	LOCATION	204.0100 SY
0010	STAGE 1	140+00 - 153+00	MEDIAN	280
		153+00 - 179+50	MEDIAN	770
		179+50 - 186+30	MEDIAN	510
		186+30 - 206+00	MEDIAN	15
		206+00 - 233+25	MEDIAN	100
		SUBTOTAL (STAGE 1)		1,675
	STAGE 2	140+00 - 153+00	NB	4,550
		153+00 - 179+50	NB	9,750
		179+50 - 186+30	NB	2,800
		186+30 - 206+00	NB	7,450
		206+00 - 233+25	NB	10,700
		233+25 - 250+50	NB	6,650
		250+50 - 257+50	NB	3,550
		257+50 - 274+75	NB	2,800
		274+75 - 281+00	NB	4,800
		231+96 'NE' - 244+89 'NE'	RAMP	1,800
		234+00 'NE1' - 238+00 'NE1'	RAMP	750
		217+00 'SE' - 233+04 'SE'	RAMP	2,500
		SUBTOTAL (STAGE 2)		58,100
	STAGE 3	140+00 - 153+00	SB	5,350
		153+00 - 179+50	SB	11,500
		179+50 - 186+30	SB	2,600
		186+30 - 206+00	SB	7,200
		206+00 - 233+25	SB	9,600
		233+25 - 250+50	SB	7,100
		250+50 - 257+50	SB	3,150
		257+50 - 274+75	SB	3,700
		274+75 - 281+00	SB	4,100
		232+68 'NW' - 247+46 'NW'	RAMP	2,250
		217+15 'SW' - 235+08 'SW'	RAMP	2,900
		230+75 'SW1' - 232+75 'SW1'	RAMP	330
		SUBTOTAL (STAGE 3)		59,780
		TOTAL		119,555

REMOVING ASPHALTIC SURFACE MILLING

CATEGORY	STAGE	STATION - STATION	LOCATION	204.0120 SY
0010	STAGE 4	138+25 - 153+00	MEDIAN	1,365
		153+00 - 179+50	MEDIAN	4,890
		179+50 - 186+30	MEDIAN	180
		TOTAL		6,435

REMOVING ASPHALTIC SURFACE MILLING

CATEGORY	LOCATION	204.0125 TON	REMARKS
0010	UNDISTRIBUTED	15	INTERSECTION TEMPORARY ASPHALT WEDGING

REMOVING CURB & GUTTER

CATEGORY	STATION - STATION	LOCATION	204.0150 LF
0010	140+00 - 153+00	MEDIAN	1,105
	153+00 - 179+50	MEDIAN	2,290
	179+50 - 186+30	MEDIAN	565
	186+30 - 206+00	MEDIAN	280
	206+00 - 233+25	MEDIAN	470
	233+25 - 250+50	MEDIAN	790
	274+75 - 281+00	MEDIAN	540
	231+96 'NE' - 244+89 'NE'	RAMP	470
	232+68 'NW' - 247+46 'NW'	RAMP	330
	217+00 'SE' - 233+04 'SE'	RAMP	280
	217+15 'SW' - 235+08 'SW'	RAMP	260
	CALUMET RD.	LOOP DETECTORS	14
	BRADLEY RD.	LOOP DETECTORS	14
	SERVITE DR.	LOOP DETECTORS	12
	DEAN RD.	LOOP DETECTORS	7
	NORTHRIDGE LAKES BLVD.	LOOP DETECTORS	7
	TOTAL		7,434

REMOVING CONCRETE SIDEWALK

CATEGORY	STATION - STATION	LOCATION	204.0155 SY
0010	143+66 - 143+86	RT	10
	152+34 - 152+81	RT	40
	153+25 - 153+76	LT	35
	153+35 - 153+44	RT	10
	173+45 - 173+75	RT	15
	174+54 - 174+82	LT	25
	178+68 - 178+97	RT	35
	178+85 - 180+08	LT	30
	179+89 - 179+96	RT	10
	185+60 - 185+89	RT	15
	186+80 - 187+08	LT	15
	205+54 - 205+71	LT	15
	205+55 - 205+74	RT	30
	206+22 - 206+72	LT	45
	206+24 - 206+48	RT	30
	206+48 - 209+18	RT	170
	257+77 - 261+61	RT	215
	257+78 - 261+60	LT	215
	263+55 - 265+74	LT	10
	264+57 - 269+89	LT	295
	270+21 - 272+68	LT	140
	274+39 - 274+59	LT	15
	275+07 - 275+36	LT	20
	TOTAL		1,440

REMOVING GUARDRAIL

CATEGORY	STATION - STATION	LOCATION	204.0165 LF
0010	191+20 - 191+88	RT	70
	193+77 - 194+50	LT	75
	TOTAL		145

REMOVING MANHOLES

CATEGORY	STATION	LOCATION	204.0210 EACH
0010	141+00	LT	1
	143+58	RT	1
	143+66	LT	1
	144+95	RT	1
	146+50	LT	1
	146+45	RT	1
	149+05	RT	1
	149+10	LT	1
	151+55	RT	1
	151+60	LT	1
	153+51	LT	1
	153+64	RT	1
	158+50	RT	1
	158+50	LT	1
	160+93	RT	1
	162+94	RT	1
	163+31	LT	1
	168+10	RT	1
	168+11	LT	1
	170+55	RT	1
	170+55	LT	1
	173+76	LT	1
	176+90	LT	1
	177+00	RT	1
	178+71	LT	1
	178+73	RT	1
	179+36	LT	1
	180+10	RT	1
	186+65	RT	1
	186+84	LT	1
	189+45	RT	1
	196+30	RT	1
	199+30	RT	1
	202+25	LT	1
	202+67	RT	1
	11+37'D'	RT	1
	206+06	LT	1
	206+47	LT	1
	207+80	LT	1
	208+99	LT	1
	210+82	LT	1
	212+80	LT	1
	213+65	LT	1
	215+00	LT	1
	216+25	LT	1

CONT. ABOVE

REMOVING MANHOLES (CONT.)

CATEGORY	STATION	LOCATION	204.0210 EACH
0010	217+12	LT	1
	219+50	LT	1
	220+19	RT	1
	223+14 'SE'	LT	1
	226+14 'SE'	LT	1
	229+14 'SE'	RT	1
	231+24	RT	1
	236+48	LT	1
	236+94	LT	1
	239+00	LT	1
	242+00	LT	1
	245+52	LT	1
	246+24	RT	1
	247+49	LT	1
	248+49	RT	1
	250+55	LT	1
	251+20	LT	1
	253+43	RT	1
	253+44	LT	1
	255+92	LT	1
	255+92	RT	1
	257+35	LT	1
	258+44	LT	1
	260+94	RT	1
	261+01	LT	1
	266+49	LT	1
	266+50	RT	1
	271+50	LT	1
	271+50	RT	1
	274+99	LT	1
	276+51	LT	1
	276+49	RT	1
	279+00	RT	1
	279+01	LT	1
	237+99 'NE'	LT	1
	229+55 'SW'	RT	1
	236+99 'NW'	RT	1
	234+02 'NW'	RT	1
	TOTAL		83

REMOVING INLETS

CATEGORY	STATION	LOCATION	204.0220 EACH	REMARKS
0010	140+93	MEDIAN	1	
	141+00	LT,RT	2	
	143+65	LT,RT	2	
	144+92	MEDIAN	1	
	146+50	LT,RT,MEDIAN	3	
	149+10	LT,RT	2	
	150+96	MEDIAN	1	
	151+59	LT,RT,MEDIAN	3	
	153+51	LT	1	
	153+56	MEDIAN	1	
	153+62	LT	1	
	153+64	RT	1	
	154+92	MEDIAN	1	
	158+50	LT,RT	2	
	160+20	MEDIAN	1	
	160+50	LT,RT	2	
	161+20	MEDIAN	1	
	163+00	LT,RT,MEDIAN	3	
	165+50	LT,RT,MEDIAN	3	
	168+10	LT,LT,RT	3	
	168+23	MEDIAN	1	
	170+55	LT,RT	2	
	173+50	MEDIAN	1	
	173+69	LT	1	WEST SIDE OF FRONTAGE ROAD
	173+75	LT,RT	2	
	176+90	LT,RT	2	
	177+00	MEDIAN	1	
	178+70	LT,RT,MEDIAN	3	
	180+10	LT,RT,MEDIAN	3	
	181+80	MEDIAN	1	
	184+34	MEDIAN	1	
	185+76	LT	1	EXIST. STRIP INLET
	185+79	LT,MEDIAN	2	
	186+00	RT	1	
	186+50	RT	1	
	186+84	LT,MEDIAN	2	
	189+50	LT,RT,MEDIAN	3	
	196+25	LT,RT,MEDIAN	3	
	199+25	LT,RT,MEDIAN	3	
	202+25	LT,RT,MEDIAN	3	
	204+75	LT	1	
	204+92	RT	1	
	205+43	MEDIAN	1	
	205+50	RT	1	
	11+33'D'	RT	1	
	206+17	LT	1	
	207+73	LT	1	
	209+00	RT, MEDIAN	2	MIDDLE AND RT SIDE OF MEDIAN
	210+75	LT	1	
	212+35	RT, MEDIAN	2	MIDDLE AND RT SIDE OF MEDIAN
	212+78	LT	1	
	212+80	RT	1	
	213+20	RT	1	
	213+64	LT	1	
	215+00	RT	1	
	216+25	LT,MEDIAN	2	
	217+13	RT	1	
	219+50	MEDIAN	2	MIDDLE AND LT SIDE OF MEDIAN
	220+10	RT	1	
	222+50	MEDIAN	2	MIDDLE AND LT SIDE OF MEDIAN
	223+14'SE'	RT	1	
	225+50	LT, MEDIAN	2	MIDDLE AND LT SIDE OF MEDIAN
	226+26	RT	1	
	228+50	MEDIAN	2	MIDDLE AND LT SIDE OF MEDIAN

CONT. ABOVE

REMOVING INLETS (CONT.)

CATEGORY	STATION	LOCATION	204.0220 EACH	REMARKS
0010	229+25	RT	1	
	232+00	MEDIAN	1	
	232+25	RT	1	
	236+50	LT,MEDIAN	2	
	237+00	RT	1	
	239+00	LT,MEDIAN	2	
	239+55	RT	1	
	240+50	RT	1	
	241+88	LT	1	
	242+00	MEDIAN	1	
	242+23	MEDIAN	1	RT SIDE OF MEDIAN
	226+15 'SE'	RT	1	EAST SIDE OF NB EXIT RAMP
	229+16 'SE'	LT	1	WEST SIDE OF NB EXIT RAMP
	229+15 'SE'	RT	2	EAST SIDE OF NB EXIT RAMP
	232+27 'SE'	RT	2	EAST SIDE OF NB EXIT RAMP
	232+08 'SE1'	LT	1	WEST SIDE OF NB EXIT RAMP
	232+32 'SE1'	LT	1	WEST SIDE OF NB EXIT RAMP
	234+97 'NE'	RT	1	EAST SIDE OF NB ON RAMP
	235+23 'NE'	RT	1	EAST SIDE OF NB ON RAMP
	238+00 'NE'	RT	1	EAST SIDE OF NB ON RAMP
	234+07 'NE1'	LT	1	WEST SIDE OF NB ON RAMP
	234+13 'NE1'	LT	1	WEST SIDE OF NB ON RAMP
	222+89 'SW'	LT	1	EAST SIDE OF SB ON RAMP
	225+75 'SW'	RT	2	EAST SIDE OF SB ON RAMP
	229+54 'SW'	LT, RT	2	EAST SIDE OF SB ON RAMP
	232+45 'SW1'	RT	1	EAST SIDE OF SB ON RAMP
	233+82 'NW1'	RT	1	EAST SIDE OF SB EXIT RAMP
	234+07 'NW1'	RT	1	EAST SIDE OF SB EXIT RAMP
	234+32 'NW1'	RT	1	EAST SIDE OF SB EXIT RAMP
	234+00 'NW'	LT	1	WEST SIDE OF SB EXIT RAMP
	234+24 'NW'	LT	1	WEST SIDE OF SB EXIT RAMP
	237+00 'NW'	LT/RT	4	EAST AND WEST SIDE OF SB EXIT RAMP
	244+50	LT	1	
	244+75	LT	1	
	245+46	MEDIAN	1	RT SIDE OF MEDIAN
	245+50	MEDIAN	1	
	246+25	RT,MEDIAN	2	
	246+50	RT	1	
	247+50	LT	1	
	248+00	MEDIAN	1	
	248+50	RT	1	
	11+09'N'	RT	1	
	11+22'N'	LT	1	
	251+13	RT	1	
	251+20	LT,MEDIAN	2	
	253+50	LT,RT	2	
	254+32	MEDIAN	1	
	255+93	RT	1	
	256+00	LT	1	
	11+22 'NL'	RT	1	
	11+23 'NL'	LT	1	
	258+50	LT,RT,MEDIAN	3	
	261+00	LT,RT	2	
	266+50	LT,RT	2	
	268+97	MEDIAN	1	
	269+00	LT,RT	2	
	269+04	LT,RT	2	
	270+35	MEDIAN	1	
	271+50	RT,MEDIAN	2	
	275+00	LT	1	
	276+50	LT,RT	2	
	279+00	LT,RT,MEDIAN	3	
TOTAL			187	

REMOVING STORM SEWER

		204.0245										
		01. 8-INCH	02. 12-INCH	03. 15-INCH	04. 18-INCH	05. 21-INCH	06. 24-INCH	07. 27-INCH	08. 30-INCH	09. 36-INCH	10. 42-INCH	11. 54-INCH
CATEGORY	STATION - STATION	LF	LF	LF	LF	LF	LF	LF	LF	LF	LF	LF
0010	140+92, 34.4' LT - 141+38, 34.4' LT	---	---	---	---	---	46	---	---	---	---	---
	141+00, 47' LT - 141+00, 12.7' LT	13	---	---	---	---	---	---	---	---	---	---
	143+58, 34.5' LT - 143+74, 34.5' LT	---	---	---	---	16	---	---	---	---	---	---
	143+60, 42' RT - 143+65, 47' RT	7	---	---	---	---	---	---	---	---	---	---
	143+65, 47' LT - 143+66, 34' LT	14	---	---	---	---	---	---	---	---	---	---
	143+52, 42' RT - 143+89, 42' RT	---	---	---	---	40	---	---	---	---	---	---
	144+92, 6.5' RT - 144+95, 42.6' RT	35	---	---	---	---	---	---	---	---	---	---
	144+87, 42.65' RT - 145+03, 42.6' RT	---	---	---	---	16	---	---	---	---	---	---
	146+42, 34' LT - 146+58, 34' LT	---	---	8	8	---	---	---	---	---	---	---
	146+50, 47.5' LT - 146+50, 34' LT	16	---	---	---	---	---	---	---	---	---	---
	146+37, 44' RT - 146+53, 44' RT	---	---	---	8	8	---	---	---	---	---	---
	146+50, 2' LT - 146+45, 43' RT	46	---	---	---	---	---	---	---	---	---	---
	149+02, 34' LT - 149+18, 34' LT	---	---	16	---	---	---	---	---	---	---	---
	149+10, 47.5' LT - 149+10, 34' LT	15	---	---	---	---	---	---	---	---	---	---
	148+97, 42' RT - 149+13, 42' RT	---	---	8	8	---	---	---	---	---	---	---
	149+09, 47.5' RT - 149+05, 42.5' RT	6	---	---	---	---	---	---	---	---	---	---
	151+52, 34' LT - 151+68, 34' LT	---	---	16	---	---	---	---	---	---	---	---
	151+60, 47.5' LT - 151+60, 34' LT	15	---	---	---	---	---	---	---	---	---	---
	151+47, 44' RT - 151+63, 44' RT	---	---	16	---	---	---	---	---	---	---	---
	151+59, 5.5' LT - 151+55, 44' RT	48	---	---	---	---	---	---	---	---	---	---
	151+58, 47.5' RT - 151+55, 44' RT	4	---	---	---	---	---	---	---	---	---	---
	153+43, 34' LT - 153+59, 34' LT	---	---	16	---	---	---	---	---	---	---	---
	153+51, 47.5' LT - 153+51, 35' RT	13	---	---	---	---	---	---	---	---	---	---
	153+56, 33' RT - 153+72, 34' RT	---	---	16	---	---	---	---	---	---	---	---
	153+62, 47.5' RT - 153+64, 33' RT	15	---	---	---	---	---	---	---	---	---	---
	154+83, 33' RT - 154+99, 33' RT	---	---	16	---	---	---	---	---	---	---	---
	154+92, 0.0' RT - 154+91, 33' RT	35	---	---	---	---	---	---	---	---	---	---
	158+43, 34' LT - 158+59, 34' LT	---	---	16	---	---	---	---	---	---	---	---
	158+50, 47.5' LT - 158+50, 34' LT	15	---	---	---	---	---	---	---	---	---	---
	158+42, 33' RT - 158+58, 33' RT	---	---	16	---	---	---	---	---	---	---	---
	158+50, 33' RT - 158+49, 47.5' RT	15	---	---	---	---	---	---	---	---	---	---
	160+42, 34' LT - 160+58, 34' LT	---	---	8	8	---	---	---	---	---	---	---
	160+20, 34' RT - 161+38, 34' RT	---	---	---	---	118	---	---	---	---	---	---
	160+50, 47.5' LT - 160+50, 35' LT	13	---	---	---	---	---	---	---	---	---	---
	160+50, 47.5' RT - 160+50, 34' RT	13	---	---	---	---	---	---	---	---	---	---
	162+86, 34' RT - 163+02, 34' RT	---	---	---	---	8	---	8	---	---	---	---
	162+94, 34' RT - 163+00, 47.5' RT	16	---	---	---	---	---	---	---	---	---	---
	162+94, 34' RT - 163+00, 26' RT	---	---	---	---	8	---	---	---	---	---	---
	163+00, 47.5' LT - 163+31, 35' LT	32	---	---	---	---	---	---	---	---	---	---
	163+23, 34.5' LT - 163+39, 34.5' LT	---	---	---	16	---	---	---	---	---	---	---
	163+31, 34.5' LT - 163+31, 59' LT	---	24	---	---	---	---	---	---	---	---	---
	163+31, 34.5' LT - 163+27, 27' LT	---	---	---	---	8	---	---	---	---	---	---
	163+31, 34.5' LT - 163+27, 34' LT	---	8	---	---	---	---	---	---	---	---	---
	165+86, 34.5' LT - 166+02, 34.5' LT	---	---	---	16	---	---	---	---	---	---	---
	165+44, 34' RT - 165+60, 34' RT	---	---	---	---	---	---	16	---	---	---	---
	165+52, 34' RT - 165+52, 47.5' RT	13	---	---	---	---	---	---	---	---	---	---
	168+03, 34' LT - 168+19, 34' LT	---	---	8	8	---	---	---	---	---	---	---
	168+02, 34' RT - 168+18, 34' RT	---	---	---	16	---	---	---	---	---	---	---
	168+10, 47.5' RT - 168+10, 34' RT	15	---	---	---	---	---	---	---	---	---	---
	168+10, 55' LT - 168+11, 35' LT	20	---	---	---	---	---	---	---	---	---	---
	170+47, 34' LT - 170+63, 34' LT	---	---	16	---	---	---	---	---	---	---	---
	170+55, 47.5' LT - 170+55, 34' LT	15	---	---	---	---	---	---	---	---	---	---
	170+47, 33' RT - 170+63, 33' RT	---	---	16	---	---	---	---	---	---	---	---
	170+55, 47.5' RT - 170+55, 34' RT	13	---	---	---	---	---	---	---	---	---	---
	172+72, 34' LT - 172+88, 34' LT	---	---	16	---	---	---	---	---	---	---	---
	173+68, 34' LT - 173+76, 34' LT	---	---	8	---	---	---	---	---	---	---	---
	173+76, 34' LT - 173+75, 47' LT	13	---	---	---	---	---	---	---	---	---	---
	176+82, 34' LT - 176+98, 34' LT	---	---	16	---	---	---	---	---	---	---	---
	176+89, 47.5 'LT - 176+90, 34' LT	13	---	---	---	---	---	---	---	---	---	---
	176+92, 35' RT - 177+08, 35' RT	---	---	8	---	8	---	---	---	---	---	---
	176+91, 47.5' RT - 177+00, 35' RT	15	---	---	---	---	---	---	---	---	---	---
	176+99, 0.0' RT - 177+00, 35' RT	35	---	---	---	---	---	---	---	---	---	---
	178+63, 35' LT - 178+77, 35' LT	---	---	8	8	---	---	---	---	---	---	---
	178+65, 37' RT - 178+81, 37' RT	---	---	---	8	8	---	---	---	---	---	---

CONT. ON NEXT PAGE

REMOVING STORM SEWER (CONT.)

		204.0245										
		01. 8-INCH	02. 12-INCH	03. 15-INCH	04. 18-INCH	05. 21-INCH	06. 24-INCH	07. 27-INCH	08. 30-INCH	09. 36-INCH	10. 42-INCH	11. 54-INCH
CATEGORY	STATION - STATION	LF	LF	LF	LF	LF	LF	LF	LF	LF	LF	LF
0010	178+73, 47.5' RT - 178+81, 37' RT	10	---	---	---	---	---	---	---	---	---	---
	178+70, 47.5' LT - 178+71, 35' LT	12	---	---	---	---	---	---	---	---	---	---
	179+03, 58' LT - 179+36, 70' LT	---	---	---	8	---	---	---	---	---	---	---
	179+15, 58' LT - 179+36, 70' LT	---	---	---	---	---	8	---	---	---	---	---
	179+36, 70' LT - 179+36, 78' LT	---	---	---	---	---	---	8	---	---	---	---
	179+98, 47.5' LT - 180+14, 47.5' LT	---	---	---	---	8	8	---	---	---	---	---
	180+02, 37' RT - 180+18, 37' RT	---	---	---	---	---	16	---	---	---	---	---
	180+10, 47.5' RT - 180+10, 38' RT	9	---	---	---	---	---	---	---	---	---	---
	181+71, 38' RT - 181+87, 38' RT	---	---	---	---	---	16	---	---	---	---	---
	181+79, 3' RT - 181+80, 38' RT	40	---	---	---	---	---	---	---	---	---	---
	185+62, 39' RT - 185+83, 39' RT	---	---	---	---	---	22	---	---	---	---	---
	185+63, 47.5' LT - 185+79, 47.5' LT	---	---	---	8	8	---	---	---	---	---	---
	186+57, 39' RT - 186+65, 39' RT	---	---	---	---	---	8	---	---	---	---	---
	186+65, 39' RT - 186+84, 6' RT	---	---	---	38	---	---	---	---	---	---	---
	186+84, 6' RT - 187+14, 6' RT	---	---	30	---	---	---	---	---	---	---	---
	186+84, 6' RT - 186+84, 47.5' LT	53	---	---	---	---	---	---	---	---	---	---
	186+84, 47.5' LT - 186+91, 49' LT	8	---	---	---	---	---	---	---	---	---	---
	189+37, 6' RT - 189+45, 6' RT	---	---	8	---	---	---	---	---	---	---	---
	189+45, 6' RT - 189+50, 0.0' RT	10	---	---	---	---	---	---	---	---	---	---
	189+50, 0.0' RT - 189+50, 47.5' LT	45	---	---	---	---	---	---	---	---	---	---
	189+45, 6' RT - 189+50, 47.5' RT	40	---	---	---	---	---	---	---	---	---	---
	196+30, 6' RT - 196+38, 6' RT	---	---	8	---	---	---	---	---	---	---	---
	196+25, 1' LT - 196+30, 7' RT	5	---	---	---	---	---	---	---	---	---	---
	196+25, 1' LT - 196+25, 47.5' LT	45	---	---	---	---	---	---	---	---	---	---
	196+30, 7' RT - 196+24, 47.5' RT	40	---	---	---	---	---	---	---	---	---	---
	199+22, 7' RT - 199+38, 7' RT	---	---	16	---	---	---	---	---	---	---	---
	199+25, 0.0' RT - 199+30, 7' RT	10	---	---	---	---	---	---	---	---	---	---
	199+25, 0.0' RT - 199+25, 47.5' LT	45	---	---	---	---	---	---	---	---	---	---
	199+30, 7' RT - 199+25, 47.5' RT	40	---	---	---	---	---	---	---	---	---	---
	202+19, 34' LT - 202+33, 34' LT	---	---	---	---	---	---	---	---	---	---	16
	202+24, 47.5' LT - 202+25, 35' LT	12	---	---	---	---	---	---	---	---	---	---
	202+62, 35' RT - 202+75, 35' RT	---	---	---	16	---	---	---	---	---	---	---
	202+27, 47.5' RT - 202+67, 35' RT	40	---	---	---	---	---	---	---	---	---	---
	204+92, 35' RT - 205+08, 35' RT	---	---	---	8	8	---	---	---	---	---	---
	205+00, 47' RT - 205+00, 35' RT	12	---	---	---	---	---	---	---	---	---	---
	205+42, 35' RT - 205+58, 35' RT	---	---	---	---	16	---	---	---	---	---	---
	205+50, 47' RT - 205+50, 35' RT	12	---	---	---	---	---	---	---	---	---	---
	11+33 'D', 23' RT - 11+37 'D', 8' RT	20	---	---	---	---	---	---	---	---	---	---
	11+37 'D', 8' RT - 205+90, 47' LT	---	---	---	---	---	---	---	---	8	---	---
	11+37 'D', 8' RT - 206+09, 74' LT	---	---	---	---	22	---	---	---	---	---	---
	206+20, 76' LT - 206+09, 74' LT	9	---	---	---	---	---	---	---	---	---	---
	206+59, 35' LT - 206+47, 35' LT	---	---	---	8	---	---	---	---	---	---	---
	207+73, 35' LT - 207+90, 35' LT	---	---	---	16	---	---	---	---	---	---	---
	207+73, 50' LT - 207+80, 35' LT	13	---	---	---	---	---	---	---	---	---	---
	208+91, 40' LT - 209+07, 40' LT	---	---	---	8	---	8	---	---	---	---	---
	208+99, 40' LT - 209+00, 12' LT	52	---	---	---	---	---	---	---	---	---	---
	210+74, 36' LT - 210+90, 35' LT	---	---	---	---	---	16	---	---	---	---	---
	210+73, 47.5' LT - 210+82, 35' LT	14	---	---	---	---	---	---	---	---	---	---
	212+17, 35' LT - 212+31, 35' LT	---	---	---	---	---	16	---	---	---	---	---
	212+72, 35' LT - 212+88, 35' LT	---	---	---	---	---	16	---	---	---	---	---
	212+79, 47.5' LT - 212+80, 35' LT	13	---	---	---	---	---	---	---	---	---	---
	212+80, 85' RT - 213+18, 84' RT	36	---	---	---	---	---	---	---	---	---	---
	213+57, 35' LT - 213+73, 35' LT	---	---	---	---	---	16	---	---	---	---	---
	213+64, 47.5' LT - 213+65, 35' LT	12	---	---	---	---	---	---	---	---	---	---
	214+92, 36' LT - 215+08, 36' LT	---	---	---	---	---	16	---	---	---	---	---
	215+00, 50' RT - 215+00, 36' LT	---	85	---	---	---	---	---	---	---	---	---
	216+17, 35' LT - 216+33, 35' LT	---	---	---	---	---	16	---	---	---	---	---
	216+22, 50' LT - 216+25, 35' LT	12	---	---	---	---	---	---	---	---	---	---
	217+04, 36' LT - 217+20, 36' LT	---	---	---	---	---	16	---	---	---	---	---
	217+12, 36' LT - 217+13, 50' RT	---	85	---	---	---	---	---	---	---	---	---
	219+42, 33' LT - 219+58, 33' LT	---	---	---	---	---	16	---	---	---	---	---
	219+50, 33' LT - 219+50, 11.5' LT	20	---	---	---	---	---	---	---	---	---	---
	219+50, 11.5' LT - 219+50, 18' LT	10	---	---	---	---	---	---	---	---	---	---

CONT. ON NEXT PAGE

REMOVING STORM SEWER (CONT.)

		204.0245										
		01. 8-INCH	02. 12-INCH	03. 15-INCH	04. 18-INCH	05. 21-INCH	06. 24-INCH	07. 27-INCH	08. 30-INCH	09. 36-INCH	10. 42-INCH	11. 54-INCH
CATEGORY	STATION - STATION	LF	LF	LF	LF	LF	LF	LF	LF	LF	LF	LF
0010	219+50, 34'LT - 219+50, 42'LT	8	---	---	---	---	---	---	---	---	---	---
	220+19, 62'RT - 220+27, 62'RT	---	8	---	---	---	---	---	---	---	---	---
	220+10, 60'RT - 220+19, 62'RT	9	---	---	---	---	---	---	---	---	---	---
	220+19, 63'RT - 220+19, 71'RT	8	---	---	---	---	---	---	---	---	---	---
	222+80, 74'LT - 222+96, 74'LT	---	---	---	---	---	16	---	---	---	---	---
	222+49, 6'LT - 222+88, 74'LT	78	---	---	---	---	---	---	---	---	---	---
	223+07 'SE', 8'LT - 223+22 'SE', 8'LT	---	8	8	---	---	---	---	---	---	---	---
	223+14 'SE', 8.5'LT - 223+14 'SE', 1.5'RT	10	---	---	---	---	---	---	---	---	---	---
	225+51, 6'LT - 225+75'SW', 22'RT	---	82	---	---	---	---	---	---	---	---	---
	225+75'SW', 22'RT - 225+69'SW', 17'RT	8	---	---	---	---	---	---	---	---	---	---
	225+67'SW', 18'RT - 225+83'SW', 18'RT	---	---	---	---	---	16	---	---	---	---	---
	226+27, 50'RT - 226+13 'SE', 8'LT	---	52	---	---	---	---	---	---	---	---	---
	226+05 'SE', 8'LT - 226+21'SE', 8'LT	---	---	8	8	---	---	---	---	---	---	
	226+13 'SE', 9'RT - 226+13 'SE', 8'LT	20	---	---	---	---	---	---	---	---	---	---
	229+23, 50'RT - 229+31, 48'RT	---	---	16	---	---	---	---	---	---	---	---
	228+49, 6'LT - 228+49, 11.5'LT	5	---	---	---	---	---	---	---	---	---	---
	229+07 'SE', 7'LT - 229+23 'SE', 7'LT	---	---	---	16	---	---	---	---	---	---	---
	229+15 'SE', 1.5'RT - 229+14 'SE', 7'LT	8	---	---	---	---	---	---	---	---	---	---
	231+24, 11.5'LT - 231+24, 1.5'RT	15	---	---	---	---	---	---	---	---	---	---
	231+24, 1.5'RT - 231+17, 3'RT	---	---	8	---	---	---	---	---	---	---	---
	231+24, 1.5'RT - 232+00, 0.2'RT	---	75	---	---	---	---	---	---	---	---	---
	236+50, 50'LT - 236+48, 29'LT	20	---	---	---	---	---	---	---	---	---	---
	236+48, 29'LT - 236+94, 28'LT	---	---	45	---	---	---	---	---	---	---	---
	236+94, 28'LT - 237+02, 28'LT	---	---	8	---	---	---	---	---	---	---	---
	236+94, 28'LT - 237+00, 50'RT	---	75	---	---	---	---	---	---	---	---	---
	238+92, 36'LT - 239+65, 36'LT	---	---	73	---	---	---	---	---	---	---	---
	239+00, 47'LT - 239+00, 36'LT	10	---	---	---	---	---	---	---	---	---	---
	239+57, 36'LT - 239+58, 11.5'RT	---	46	---	---	---	---	---	---	---	---	---
	241+92, 36'LT - 242+08, 36'LT	---	---	16	---	---	---	---	---	---	---	---
	242+00, 36'LT - 242+00, 11.5'LT	24	---	---	---	---	---	---	---	---	---	---
	244+50'NW', 1'LT - 244+75, 68'LT	22	---	---	---	---	---	---	---	---	---	---
	244+75, 79'LT - 244+75, 37'LT	42	---	---	---	---	---	---	---	---	---	---
	245+44, 35'LT - 245+60, 35'LT	---	---	---	---	---	---	---	---	8	8	---
	246+19, 26'RT - 246+32, 32'RT	---	---	---	---	---	---	16	---	---	---	---
	245+52, 35'LT - 245+58, 30'LT	---	---	---	---	---	---	8	---	---	---	---
	246+24, 32'RT - 246+25, 53'RT	20	---	---	---	---	---	---	---	---	---	---
	246+25, 53'RT - 246+50, 52'RT	25	---	---	---	---	---	---	---	---	---	---
	247+41, 34'LT - 247+57, 34'LT	---	---	---	---	---	---	---	---	16	---	---
	247+50, 47'LT - 247+49, 34'LT	12	---	---	---	---	---	---	---	---	---	---
	248+41, 30'RT - 248+57, 30'RT	---	---	---	---	8	---	8	---	---	---	---
	248+49, 30'RT - 248+50, 63'RT	---	32	---	---	---	---	---	---	---	---	---
	250+48, 34'LT - 250+63, 34'LT	---	---	---	---	---	---	---	---	16	---	---
	250+55.5, 34'LT - 11+21'N', 12'LT	---	---	---	44	---	---	---	---	---	---	---
	251+12, 35'LT - 251+28, 35'LT	---	---	---	---	---	---	---	---	16	---	---
	251+05, 31'RT - 251+21, 31'RT	---	---	---	---	16	---	---	---	---	---	---
	251+20, 47'LT - 251+20, 35'LT	12	---	---	---	---	---	---	---	---	---	---
	253+36, 34'LT - 253+52, 34'LT	---	---	---	---	---	---	---	---	16	---	---
	253+44, 34'LT - 253+50, 47'LT	13	---	---	---	---	---	---	---	---	---	---
	253+35, 30'RT - 253+51, 30'RT	---	---	---	8	8	---	---	---	---	---	---
	253+43, 30'RT - 253+50, 54'RT	24	---	---	---	---	---	---	---	---	---	---
	254+24, 34'LT - 254+40, 34'LT	---	---	---	---	---	---	---	---	16	---	---
	254+32, 34'LT - 254+31, 0.5'RT	---	35	---	---	---	---	---	---	---	---	---
	255+84, 34'LT - 256+00, 34'LT	---	---	---	---	---	---	---	8	8	---	---
	255+92, 34'LT - 256+00, 47'LT	13	---	---	---	---	---	---	---	---	---	---
	255+84, 30'RT - 256+00, 30'RT	---	---	---	16	---	---	---	---	---	---	---
	255+92, 30'RT - 255+93, 56'RT	25	---	---	---	---	---	---	---	---	---	---
	257+35, 68'LT - 257+35, 52'LT	---	---	---	16	---	---	---	---	---	---	---
	257+35, 60'LT - 11+25'NL', 37'LT	38	---	---	---	---	---	---	---	---	---	---
	257+88, 34'LT - 258+04, 34'LT	---	---	---	---	---	---	---	16	---	---	---
	257+92, 30'RT - 258+08, 30'RT	---	---	---	16	---	---	---	---	---	---	---
	258+36, 34'LT - 258+52, 34'LT	---	---	---	---	---	---	---	16	---	---	---
	258+49, 48'LT - 258+44, 34'LT	13	---	---	---	---	---	---	---	---	---	---
	260+86, 30'RT - 261+02, 30'RT	---	---	8	8	---	---	---	---	---	---	---
	260+94, 30'RT - 261+00, 47'RT	15	---	---	---	---	---	---	---	---	---	---

CONT. ON NEXT PAGE

REMOVING STORM SEWER (CONT.)

		204.0245										
		01. 8-INCH	02. 12-INCH	03. 15-INCH	04. 18-INCH	05. 21-INCH	06. 24-INCH	07. 27-INCH	08. 30-INCH	09. 36-INCH	10. 42-INCH	11. 54-INCH
CATEGORY	STATION - STATION	LF	LF	LF	LF	LF	LF	LF	LF	LF	LF	LF
0010	260+93, 34'LT - 261+09, 34'LT	---	---	---	---	---	8	---	8	---	---	---
	260+98, 47'LT - 261+01, 34'LT	12	---	---	---	---	---	---	---	---	---	---
	266+41, 34'LT - 266+57, 34'LT	---	---	---	---	---	---	16	---	---	---	---
	266+50, 48'LT - 266+49, 34'LT	12	---	---	---	---	---	---	---	---	---	---
	266+50, 30'RT - 266+58, 30'RT	---	---	8	---	---	---	---	---	---	---	---
	266+50, 47'RT - 266+46, 30'RT	15	---	---	---	---	---	---	---	---	---	---
	269+04, 48'LT - 268+91, 48'LT	12	---	---	---	---	---	---	---	---	---	---
	268+97, 7'LT - 268+91, 7'LT	5	---	---	---	---	---	---	---	---	---	---
	269+05, 43'RT - 268+95, 43'RT	10	---	---	---	---	---	---	---	---	---	---
	270+47, 30'RT - 270+63, 30'RT	---	---	16	---	---	---	---	---	---	---	---
	271+42, 35'LT - 271+50, 35'LT	---	---	---	8	---	---	---	---	---	---	---
	271+50, 35'LT - 271+50, 12'LT	---	20	---	---	---	---	---	---	---	---	---
	271+42, 30'RT - 271+50, 30'RT	---	---	8	---	---	---	---	---	---	---	---
	271+50, 30'RT - 271+50, 47'RT	15	---	---	---	---	---	---	---	---	---	---
	274+99, 35'LT - 275+07, 35'LT	---	---	8	---	---	---	---	---	---	---	---
	276+43, 34'LT - 276+59, 34'LT	---	---	8	---	---	8	---	---	---	---	---
	276+49, 48'LT - 276+51, 34'LT	12	---	---	---	---	---	---	---	---	---	---
	276+47, 40'LT - 276+51, 34'LT	---	---	---	---	---	---	8	---	---	---	---
	276+49, 32'RT - 276+57, 32'RT	---	---	8	---	---	---	---	---	---	---	---
	276+49, 32'RT - 276+50, 47'RT	14	---	---	---	---	---	---	---	---	---	---
	278+93, 31'LT - 279+09, 31'LT	---	---	---	---	---	16	---	---	---	---	---
	279+01, 31'LT - 278+99, 48.5'LT	15	---	---	---	---	---	---	---	---	---	---
	278+92, 35'RT - 279+08, 35'RT	---	---	16	---	---	---	---	---	---	---	---
	279+00, 47'RT - 279+00, 35'RT	12	---	---	---	---	---	---	---	---	---	---
	279+00, 35'RT - 279+00, 3'RT	---	30	---	---	---	---	---	---	---	---	---
	234+13 'NE1', 29'LT - 234+05 'NE1', 16'LT	14	---	---	---	---	---	---	---	---	---	---
	234+97 'NE', 1.5'RT - 234+97 'NE', 6.5'LT	8	---	---	---	---	---	---	---	---	---	---
	234+97 'NE', 1.5'RT - 235+23 'NE', 1.5'RT	25	---	---	---	---	---	---	---	---	---	---
	237+89 'NE', 35'LT - 237+99 'NE', 35'LT	---	---	8	---	---	---	---	---	---	---	---
	238+00 'NE', 51'LT - 237+99 'NE', 35'LT	14	---	---	---	---	---	---	---	---	---	---
	237+99 'NE', 35'LT - 237+98 'NE', 1.5'RT	---	35	---	---	---	---	---	---	---	---	---
	229+47 'SW', 24'RT - 229+63 'SW', 24'RT	---	---	---	---	---	16	---	---	---	---	---
	229+54 'SW', 42'RT - 229+55 'SW', 1.5'LT	---	38	---	---	---	---	---	---	---	---	---
	232+45 'SW1', 31'RT - 232+45 'SW', 1.5'LT	---	16	---	---	---	---	---	---	---	---	---
	233+82 'NW1', 13'RT - 234+07 'NW1', 2'RT	24	---	---	---	---	---	---	---	---	---	---
	234+07 'NW1', 1'RT - 234+32 'NW1', 1'RT	24	---	---	---	---	---	---	---	---	---	---
	234+07 'NW1', 1'RT - 234+02 'NW', 45'RT	15	---	---	---	---	---	---	---	---	---	---
	233+04 'NW', 45;'RT - 234+10 'NW', 45'RT	---	---	8	8	---	---	---	---	---	---	---
	234+02 'NW', 45;'RT - 234+00 'NW', 1.5'LT	---	45	---	---	---	---	---	---	---	---	---
	234+00 'NW', 1.5'LT - 234+24 'NW', 1.5'LT	24	---	---	---	---	---	---	---	---	---	---
	236+91 'NW', 8'RT - 236+99 'NW', 8'RT	---	---	8	---	---	---	---	---	---	---	---
	237+00 'NW', 18'LT - 237+00 'NW', 1.5'LT	16	---	---	---	---	---	---	---	---	---	---
	237+00 'NW', 1.5'LT - 236+99 'NW', 8'RT	8	---	---	---	---	---	---	---	---	---	---
	236+99 'NW', 8'RT - 237+00 'NW', 19.5'RT	10	---	---	---	---	---	---	---	---	---	---
	237+00 'NW', 19.5'RT - 237+00 'NW', 26'RT	6	---	---	---	---	---	---	---	---	---	---
	229+14 'SE', 13'RT - 229+15 'SE', 1.5'RT	13	---	---	---	---	---	---	---	---	---	---
	232+16 'SE', 1.5'RT - 232+27 'SE', 1.5'RT	10	---	---	---	---	---	---	---	---	---	---
	232+27 'SE', 1.5'RT - 232+27 'SE', 13.1'RT	10	---	---	---	---	---	---	---	---	---	---
	232+27 'SE', 1.5'RT - 232+35 'SE', 1.5'RT	---	8	---	---	---	---		---	---	---	---
	232+08 'SE1', 10'LT - 232+32 'SE1', 1.5'RT	26	---	---	---	---	---		---	---	---	---
	232+32 'SE1', 1.5'RT - 232+43 'SE1', 11'RT	14	---	---	---	---	---		---	---	---	---
	TOTALS	2,129	807	596	362	332	340	88	48	104	8	16

SEALING PIPES

CATEGORY	STATION	LOCATION	204.0280 EACH
0010	245+75	11' LT	1
	248+00	30' RT	1
	246+25	11' RT	1
	TOTAL		3

REMOVING BOLLARDS

CATEGORY	STATION	LOCATION	204.9060.S.01 EACH
0010	166+14 - 167+60	RT	16
	TOTAL		16

ABANDONING SEWER

CATEGORY	STATION - STATION	204.0291.S CY
0010	140+93, 0.5' LT - 140+93, 43' RT	0.6
	150+95, 2.6' RT - 151+59, 6.5' LT	0.8
	153+55, 5.3' RT - 153+64, 33' RT	0.4
	160+20, 0.5' RT - 160+20, 34' RT	0.4
	160+97, 6' RT - 161+20, 6' RT	0.3
	160+97, 6' RT - 160+97, 34' RT	0.3
	163+00, 0.5' RT - 162+94, 34' RT	0.4
	165+50, 0.0' RT - 165+52, 34' RT	0.4
	165+50, 47' LT - 165+50, 34' LT	0.2
	168+23, 6' RT - 168+10, 33' RT	0.4
	173+50, 4.3' LT - 173+76, 35' RT	0.6
	173+69, 76' LT - 173+75, 47' LT	0.4
	173+76, 35' RT - 173+76, 47' RT	0.2
	178+69, 5' LT - 178+71, 35' LT	0.4
	180+10, 6.7' RT - 180+10, 37' RT	0.4
	184+34, 0.0' RT - 184+34, 39' RT	0.5
	185+79, 38' RT - 185+79, 4.8' LT	0.6
	186+00, 47' RT - 186+00, 39' RT	0.1
	186+50, 47' RT - 186+50, 39' RT	0.1
	202+18, 7' LT - 202+18, 7' RT	0.2
	204+74, 47' LT - 204+74, 34' LT	0.2
	212+35, 0.0' RT - 212+34, 13' RT	0.2
	212+35 0.0' RT -212+80, 35' LT	0.7
	213+65, 35' LT - 213+18, 84' RT	5.8
	216+25, 0.0' RT - 216+25, 35' LT	0.5
	228+49, 6' LT - 229+25, 47' RT	4.1
	229+25, 47' RT - 229+60, 130' RT	4.0
	229+60, 130' RT - 229+14, 'SE' 7' LT	1.0
	232+26, 47' RT - 232+00, 0.2' RT	0.7
	236+49, 0.0' RT - 236+48, 29' LT	0.4
	239+00, 0.0' RT - 239+00, 36' LT	0.5
	239+58, 11.5' RT - 239+58, 47' RT	0.5
	240+50, 36' LT - 240+49, 46' RT	1.1
	241+90, 50' LT - 242+00, 36' LT	0.2
	242+00, 36' LT - 242+00, 0.0' RT	0.2
	242+00, 0.0' RT - 242+23, 20' RT	0.4
	245+50, 0.0' RT - 245+46, 27' RT	0.3
	248+02, 20' RT - 248+02, 31' RT	0.1
	11+09'N', 50' RT - 11+22'N', 57' LT	1.4
	251+20, 34' LT - 251+20, 3' RT	0.5
	251+13, 63' RT - 251+13, 30' RT	0.4
	256+98, 78' LT - 257+35, 60' LT	0.5
	258+49, 2.2' RT - 258+49, 30' RT	0.3
	258+49, 30' RT - 258+49, 47' RT	0.2
	TOTAL	31.8

EARTHWORK SUMMARY

CATEGORY	STAGE	STATION - STATION	205.0100 EXCAVATION COMMON CY	CONCRETE REMOVAL CY	USEABLE EXCAVATION CY	FILL CY	EXPANDED FILL (1) CY	WASTE (2) CY	205.0100 EBS CY	311.0110 BREAKER RUN (4) TON
0010	STAGE 1	140+00 - 284+50	4,850	420	4,430	---	---	4,850	440	780
		1+15 'TNE' - 6+25 'TNE'	2,250	---	2,250	16	20	2,230	230	390
		10+55 'TSE' - 18+70 'TSE'	1,650	---	1,650	12	15	1,635	170	290
		SUBTOTAL (STAGE 1)	8,750	420	8,330	28	35	8,715	840	1,460
	STAGE 2	140+00 - 285+00	40,200	13,250	26,950	1,320	1,650	38,550	2,700	4,700
		1+25 'TNW' - 9+25 'TNW'	1,250	---	1,250	16	20	1,230	130	220
		6+75 'TSW' - 16+50 'TSW'	4,150	---	4,150	36	45	4,105	420	730
		234+00 'NE1' - 238+00 'NE1'	670	190	480	1	1	669	50	85
		231+96'NE' - 243+50 'NE'	1,850	440	1,410	20	25	1,825	130	230
		217+00 'SE' - 233+04 'SE'	2,300	630	1,670	80	100	2,200	160	280
		SUBTOTAL (STAGE 2)	50,420	14,510	35,910	1,473	1,841	48,579	3,590	6,245
	STAGE 3	140+00 - 281+50	37,300	13,600	23,700	1,360	1,700	35,600	2,350	4,150
		233+50 'NW' - 243+00 'NW'	2,200	570	1,630	128	160	2,040	170	300
		219+00 'SW' - 232+50 'SW'	2,000	730	1,270	328	410	1,590	130	230
		231+00 'SW1' - 232+00 'SW1'	220	85	135	8	10	210	15	25
		SUBTOTAL (STAGE 3)	41,720	14,985	26,735	1,824	2,280	39,440	2,665	4,705
	STAGE 4	140+00 - 284+50	7,700	---	7,700	3,600	4,500	3,200	770	1,350
		TOTALS	108,590	29,915	78,675	6,925	8,656	99,934	7,865	13,760

(1) FILL EXPANDED BY A FACTOR OF 1.25
(2) WASTE = EXCAVATION COMMON - EXPANDED FILL
(3) EXCAVATION COMMON TOTAL = EXCAVATION COMMON + EBS (108,590 + 7,865 = 116,455 CY)
(4) USED FOR BACKFILL OF EBS (ESTIMATED AT 1.75 TONS/CY)

EXCAVATION, HAULING, AND DISPOSAL OF PETROLEUM CONTAMINATED SOIL

CATEGORY	STATION - STATION	LOCATION	205.0501.S TON
0010	180+15 - 181+50	35'LT - 60'LT	425
		TOTAL	425

FINISHING ROADWAY

CATEGORY	PROJECT	213.0100.01 EACH
0010	2140-08-73	1
	TOTAL	1

BASE AGGREGATE DENSE

CATEGORY	STAGE	STATION - STATION	LOCATION	305.0110 3/4-INCH TON	305.0120 1 1/4-INCH TON	REMARKS
0010	STAGE 1	140+00 - 153+00	MEDIAN	---	940	
		153+00 - 179+50	MEDIAN	---	2,150	
		179+50 - 186+30	MEDIAN	---	580	
		186+30 - 206+00	MEDIAN	---	130	
		206+00 - 233+25	MEDIAN	---	450	
		233+25 - 250+50	MEDIAN	---	460	
		274+75 - 281+00	MEDIAN	---	500	
		231+96'NE' - 244+89 'NE'	TEMP RAMP	---	550	
		217+00 'SE' - 233+04 'SE'	TEMP RAMP	---	830	
		SUBTOTAL (STAGE 1)		0	6,590	
0010	STAGE 2	140+00 - 153+00	NB	---	5,300	
		153+00 - 179+50	NB	---	11,350	
		179+50 - 186+30	NB	---	2,550	
		186+30 - 206+00	NB	---	7,600	
		206+00 - 233+25	NB	---	11,000	
		233+25 - 250+50	NB	---	6,350	
		250+50 - 257+50	NB	---	2,800	
		257+50 - 274+75	NB	---	6,850	
		274+75 - 281+00	NB	---	1,800	
		231+96'NE' - 244+89 'NE'	RAMP	---	2,900	
		232+68 'NW' - 247+46 'NW'	TEMP RAMP	---	650	
		217+00 'SE' - 233+04 'SE'	RAMP	---	2,350	
		217+15 'SW' - 235+08 'SW'	TEMP RAMP	---	1,020	
		140+00 - 281+00	NB	---	360	BUS STOP PADS
		140+00 - 281+00	NB	---	240	TEMPORARY BUSPAD
		140+00 - 281+00	NB	---	30	TEMPORARY CROSSWALK
		140+00 - 281+00	NB	310	---	5 IN SIDEWALK
		140+00 - 281+00	NB	---	9	6 IN SIDEWALK
		SUBTOTAL (STAGE 2 (0010))		310	63,159	
0050	STAGE 2	140+00 - 281+00	NB	1,150	---	5 IN SIDEWALK
		140+00 - 281+00	NB	---	130	6 IN SIDEWALK
		SUBTOTAL (STAGE 2 (0050))		1150	130	
		SUBTOTAL (STAGE 2)		1,460	63,289	

CONT. ABOVE

BASE AGGREGATE DENSE (CONT.)

CATEGORY	STAGE	STATION - STATION	LOCATION	305.0110 3/4-INCH TON	305.0120 1 1/4-INCH TON	REMARKS
0010	STAGE 3	140+00 - 153+00	SB	---	4,550	
		153+00 - 179+50	SB	---	10,000	
		179+50 - 186+30	SB	---	2,800	
		186+30 - 206+00	SB	---	7,150	
		206+00 - 233+25	SB	---	9,900	
		233+25 - 250+50	SB	---	5,600	
		250+50 - 257+50	SB	---	2,550	
		257+50 - 274+75	SB	---	6,900	
		274+75 - 281+00	SB	---	2,000	
		232+68 'NW' - 247+46 'NW'	RAMP	---	2,700	
		217+15 'SW' - 235+08 'SW'	RAMP	---	3,650	
		140+00 - 281+00	SB	---	420	BUS STOP PADS
		140+00 - 281+00	SB	---	420	TEMPORARY BUSPAD
		140+00 - 281+00	SB	---	80	TEMPORARY CROSSWALK
		140+00 - 281+00	SB	280	---	5 IN SIDEWALK
		140+00 - 281+00	SB	---	20	6 IN SIDEWALK
		SUBTOTAL (STAGE 3 (0010))		280	58,740	
0050	STAGE 3	140+00 - 281+00	SB	1,100	---	5 IN SIDEWALK
		140+00 - 281+00	SB	---	105	6 IN SIDEWALK
		SUBTOTAL (STAGE 3 (0050))		1,100	105	
		SUBTOTAL (STAGE 3)		1,380	58,845	
0010	STAGE 4	140+00 - 153+00	MEDIAN	---	150	
		153+00 - 179+50	MEDIAN	---	170	
		186+30 - 206+00	MEDIAN	---	230	
		233+25 - 250+50	MEDIAN	---	140	
		250+50 - 257+50	MEDIAN	---	130	
		140+00 - 281+00	SB	10	---	5 IN SIDEWALK
		280+50 - 284+79	NB	---	240	
		SUBTOTAL (STAGE 4)		10	1,060	
0010		UNDISTRIBUTED		---	13,000	STAGING
0010		TOTAL CATEGORY 0010		600	142,549	
0050		TOTAL CATEGORY 0050		2250	235	
		GRAND TOTALS		2850	142784	

CONCRETE PAVEMENT 9-INCH AND CONSTRUCTION STAKING

CATEGORY	STATION - STATION	LOCATION	415.0090 CONCRETE PAVEMENT 9-INCH SY	650.7000 CONSTRUCTION STAKING CONCRETE PAVEMENT LF*	415.2000.S INCENTIVE STRENGTH CONCRETE PAVEMENT DOL*
0010	151+78 - 152+58	RT	100	80	23
	153+54 - 154+34	LT	100	80	23
	173+01 - 173+81	RT	100	80	23
	174+53 - 175+33	LT	100	80	23
	178+00 - 178+80	RT	100	80	23
	180+01 - 180+81	LT	100	80	23
	185+12 - 185+92	RT	100	80	23
	186+80 - 187+60	LT	100	80	23
	206+44 - 207+24	LT	100	80	23
	249+34 - 250+14	RT	100	80	23
	251+28 - 252+07	LT	100	80	23
	256+00 - 256+80	RT	100	80	23
	257+96 - 258+76	LT	100	80	23
	283+04 - 284+79	RT	165	175	38
	TOTALS		1,465	1,215	337

* ADDITIONAL QUANTITIES LISTED ELSEWHERE

CONCRETE PAVEMENT APPROACH SLAB

CATEGORY	STAGE	STATION - STATION	LOCATION	416.0050 SY	650.7000 CONSTRUCTION STAKING CONCRETE PAVEMENT LF*	415.2000.S INCENTIVE STRENGTH CONCRETE PAVEMENT DOL*
0010	STAGE 2	191+58 - 191+95	NB	97	37	22
		193+35 - 193+72	NB	97	37	22
		232+05 - 232+31	NB	85	27	20
		234+22 - 234+49	NB	85	27	20
	STAGE 3	191+97 - 192+34	SB	96	37	22
		193+74 - 194+11	SB	97	37	22
		231+86 - 232+13	SB	85	27	20
		234+03 - 234+30	SB	82	27	19
		TOTALS		724	256	167

* ADDITIONAL QUANTITIES LISTED ELSEWHERE

CONCRETE DRIVEWAY 6-INCH

CATEGORY	STATION	LOCATION	416.0160 SY
0010	141+05	LT	25
	145+90	RT	23
	147+11	LT	26
	162+13	LT	22
	164+60	LT	19
	11+11 'B'	RT	20
	175+77	RT	23
	176+68	LT	16
	177+36	LT	20
	11+20 'B'	LT	1
	181+43	RT	25
	183+90	RT	25
	186+28	RT	25
	11+06 'T'	LT	23
	202+71	LT	29
	11+00 'D'	LT	37
	210+74	RT	14
	211+67	RT	18
	255+88	LT	25
	261+78	LT	13
	272+57	LT	13
	TOTAL		442

CONCRETE DRIVEWAY HES 6-INCH

CATEGORY	STATION	LOCATION	416.0260 SY
0010	144+21	RT	44
	151+00	RT	23
	155+91	LT	18
	157+60	LT	25
	158+64	LT	10
	160+64	RT	25
	160+70	LT	22
	164+50	RT	25
	166+24	LT	13
	167+73	RT	23
	170+37	RT	25
	174+13	RT	20
	177+28	RT	25
	181+22	LT	20
	181+66	LT	19
	183+71	LT	18
	182+76	RT	25
	184+08	LT	16
	202+70	RT	25
	209+32	RT	21
	209+79	RT	12
	270+00	LT	13
	276+68	LT	18
	TOTAL		485

CONCRETE PAVEMENT REPAIR

CATEGORY	LOCATION	416.0710 CONCRETE PAVEMENT REPAIR CY	416.0620 PAVEMENT DOWEL BARS EACH	690.0200 SAWING CONCRETE PAVEMENT FULL DEPTH LF*
0010	CALUMET RD. EB FAR LOOP	3.2	34	46
	CALUMET RD. WB FAR LOOP	4.0	44	54
	BRADLEY RD. EB FAR LOOP	4.3	48	56
	BRADLEY RD. WB FAR LOOP	4.1	44	51
	SERVITE DR. WB FAR LOOP	4.1	44	54
	DEAN RD. EB FAR LOOP	4.0	44	53
	NORTHRIDGE LAKES BLVD. EB FAR LOOP	4.4	48	57
		28.1	306	371

* ADDITIONAL QUANTITIES LISTED ELSEWHERE

ASPHALTIC ITEMS

CATEGORY	STAGE	STATION - STATION	LOCATION	455.0115 ASPHALTIC MATERIAL PG 64-22 TON	455.0120 ASPHALTIC MATERIAL PG 64-28 TON	455.0605 TACK COAT GAL	460.1110 HMA PAVEMENT TYPE E-10 TON	460.2000 INCENTIVE DENSITY HMA PAVEMENT DOL
0010	STAGE 2	140+00 - 153+00	NB	73	33	250	1,760	1,126
		153+00 - 179+50	NB	145	65	500	3,520	2,253
		179+50 - 186+30	NB	70	31	250	1,690	1,082
		186+30 - 206+00	NB	70	31	250	1,680	1,075
		206+00 - 233+25	NB	18	8	60	420	269
		233+25 - 250+50	NB	41	18	150	980	627
		250+50 - 257+50	NB	33	15	100	785	502
		257+50 - 274+75	NB	115	51	400	2,780	1,779
		274+75 - 281+00	NB	31	14	100	755	483
		231+96 'NE' - 244+89 'NE'	RAMP	40	17	150	945	605
		232+68 'NW' - 247+46 'NW'	RAMP	---	---	---	---	---
		217+00 'SE' - 233+04 'SE'	RAMP	44	19	150	1,050	672
		217+15 'SW' - 235+08 'SW'	RAMP	---	---	---	---	---
		SUBTOTAL (STAGE 2)		680	302	2,360	16,365	10,473
	STAGE 3	140+00 - 153+00	SB	78	35	250	1,870	1,197
		153+00 - 179+50	SB	160	72	550	3,880	2,483
		179+50 - 186+30	SB	41	18	150	990	634
		186+30 - 206+00	SB	30	13	100	710	454
		206+00 - 233+25	SB	68	30	250	1,630	1,043
		233+25 - 250+50	SB	155	69	500	3,730	2,387
		250+50 - 257+50	SB	90	40	300	2,170	1,389
		257+50 - 274+75	SB	39	17	150	945	605
		274+75 - 281+00	SB	105	46	350	2,480	1,587
		231+96 'NE' - 244+89 'NE'	RAMP	---	---	---	---	---
		232+68 'NW' - 247+46 'NW'	RAMP	43	19	150	1,040	666
		217+00 'SE' - 233+04 'SE'	RAMP	---	---	---	---	---
		217+15 'SW' - 235+08 'SW'	RAMP	52	23	200	1,250	800
		SUBTOTAL (STAGE 3)		861	382	2,950	20,695	13,245
	STAGE 4	140+00 - 153+00	MEDIAN	16	7	60	395	253
		140+00 - 153+00	SURFACE MILL AREA	---	4	30	65	42
		153+00 - 179+50	MEDIAN	49	22	150	1,190	762
		153+00 - 179+50	SURFACE MILL AREA	---	3	20	50	32
		179+50 - 186+30	MEDIAN	18	8	60	425	272
		179+50 - 186+30	SURFACE MILL AREA	---	1	1	6	4
		186+30 - 206+00	MEDIAN	19	9	70	465	298
		206+00 - 233+25	MEDIAN	16	7	50	380	243
		233+25 - 250+50	MEDIAN	21	9	70	510	326
		250+50 - 257+50	MEDIAN	17	8	60	410	262
		257+50 - 274+75	MEDIAN	10	5	30	240	154
		SUBTOTAL (STAGE 4)		166	83	601	4,136	2,648
		TOTALS		1,707	767	5,911	41,196	26,366

ASPAHLTIC SURFACE PATCHING

CATEGORY	LOCATION	465.0110 TON
0010	UNDISTRIBUTED	100
	TOTAL	100

ASPAHLTIC SURFACE DRIVEWAYS AND FIELD ENTRANCES

CATEGORY	STATION	LOCATION	465.0120 TON
0010	144+21	RT	7.9
	145+90	RT	0.7
	147+10	LT	21.9
	151+00	RT	0.7
	155+91	LT	2.0
	157+60	LT	0.9
	158+64	LT	1.2
	160+70	LT	2.2
	160+64	RT	1.0
	162+12	LT	4.7
	164+50	RT	3.2
	164+60	LT	2.2
	166+24	LT	2.7
	167+73	RT	0.8
	170+37	RT	0.9
	174+12	RT	0.7
	10+98 'L'	LT	14.3
	175+78	RT	1.5
	176+66	LT	0.5
	177+35	LT	1.9
	177+09 - 178+6	RT	3.9
	181+22	LT	3.4
	181+66	LT	0.5
	181+42	RT	2.6
	182+73	RT	2.2
	183+71	LT	2.2
	183+90	RT	3.4
	184+08	LT	1.7
	186+30	RT	6.4
	202+70	LT	0.9
	202+70	RT	5.5
	209+32	RT	2.0
	209+79	RT	1.2
	210+57	RT	5.1
	211+67	RT	11.1
	255+85	LT	3.9
	261+78	LT	0.5
	270+00	LT	2.2
	272+58	LT	0.5
	276+67	LT	7.5
	9+12 'F'	RT	6.5
	11+11 'B'	RT	0.6
	11+00 'D'	LT	0.5
	TOTAL		146

WALL MODULAR BLOCK GRAVITY

CATEGORY	STATION - STATION	LOCATION	532.0200.S SF
0010	147+50 - 148+65	RT	300
	177+50 - 178+00	LT	160
	246+10 - 248+80	LT	660
	258+50 - 261+50	LT	960
	270+50 - 272+00	LT	540
	TOTAL		2,620

APSHALTIC SURFACE TEMPORARY

CATEGORY	STAGE	STATION - STATION	465.0125 TON	REMARKS
0010	STAGE 1	140+00 - 153+00	350	
		153+00 - 179+50	835	
		179+50 - 186+30	210	
		186+30 - 206+00	50	
		206+00 - 233+25	190	
		233+25 - 250+50	110	
		250+50 - 257+50	75	
		274+75 - 281+00	205	
		231+96'NE' - 244+89 'NE'	195	TEMP RAMP
		217+00 'SE' - 233+04 'SE'	295	TEMP RAMP
		SUBTOTAL (STAGE 1)	2,515	
	STAGE 2	140+00 - 153+00	450	
		153+00 - 179+50	1,670	
		179+50 - 186+30	170	
		206+00 - 233+25	50	
		232+68 'NW' - 247+46 'NW'	210	TEMP RAMP
		217+15 'SW' - 235+08 'SW'	370	TEMP RAMP
		152+00	5	TEMP BUS PAD AND CROSSWALK
		173+25	5	TEMP BUS PAD AND CROSSWALK
		178+50	5	TEMP BUS PAD AND CROSSWALK
		185+50	5	TEMP BUS PAD AND CROSSWALK
		SUBTOTAL (STAGE 2)	2,940	
	STAGE 3	153+50	5	TEMP BUS PAD AND CROSSWALK
		174+50	5	TEMP BUS PAD AND CROSSWALK
		180+10	5	TEMP BUS PAD AND CROSSWALK
		187+00	5	TEMP BUS PAD AND CROSSWALK
		206+75	5	TEMP BUS PAD AND CROSSWALK
		251+25	10	TEMP BUS PAD AND CROSSWALK
		258+25	10	TEMP BUS PAD AND CROSSWALK
		SUBTOTAL (STAGE 3)	45	
		UNDISTRIBUTED	15	INTERSECTION TEMPORARY ASPHALT WEDGING
		TOTAL	5,515	

CULVERT PIPE CONCRETE COLLAR

CATEGORY	LOCATION	520.8000.S EACH
0010	I-1.2	1
	MH-1	2
	MH-2	2
	MH-3	2
	MH-4	2
	MH-5	2
	MH-6	2
	MH-8	2
	MH-7	2
	MH-9	2
	MH-10	2
	MH-11	2
	MH-12	2
	MH-13	2
	MH-14	2
	MH-14B	2
	MH-14D	1
	MH-14C	2
	MH-14E	1
	MH-15	3
	MH-16	3
	MH-17	2
	MH-17B	2
	MH-18	2
	MH-19	2
	MH-20	2
	MH-21	2
	MH-21B	2
	MH-21C	1
	MH-22	2
	MH-23	2
	MH-24	2
	MH-25	2
	MH-26	3
	MH-26B	2
	MH-27	2
	MH-27B	2
	MH-28	2
	MH-28B	2
	MH-30	1
	MH-30B	1
	MH-30C	1
	MH-30D	2
	MH-31	2
	MH-32	2
	I-32.2	1
	MH-32B	2
	MH-33	2
	MH-34	1
	MH-34B	1
	MH-35	1
	MH-36	2
	MH-37	2
	MH-38	2
	MH-39	2
	MH-39B	2
	MH-40	2
	MH-41	2
	MH-42	2
	MH-43	2

CONT. ON NEXT PAGE

CULVERT PIPE CONCRETE COLLAR (CONT.)

CATEGORY	LOCATION	520.8000.S EACH
0010	MH-44	3
	MH-45	2
	MH-44B	2
	MH-45C	2
	I-45.4	1
	MH-46	2
	I-46.2	1
	MH-46B	2
	I-46.5	1
	MH-45B	2
	MH-47C	1
	MH 49	1
	MH-50	1
	MH-51	1
	MH-53	2
	I-54.2	1
	MH-55	3
	I-55.5	1
	MH-56	2
	MH-57	2
	MH-58	2
	MH-59	2
	MH-59B	1
	MH-59C	2
	MH-60	2
	MH-61	2
	MH-62	2
	MH-63	2
	MH-64	2
	MH-64B	2
	MH-65	2
	MH-66	2
	MH-67	2
	MH-68	2
	MH-69	2
	MH-70	2
	MH-71	2
	MH-72	1
	I-72.7	1
	I 72.3	1
	I 72.5	1
	MH-73	1
	MH-74	1
	MH-74B	2
	MH 75C	1
	I 75.1	1
	MH-76	1
	MH-77	3
	MH-78	2
	MH-79	2
	MH-81	1
	MH-86	2
	MH-84	2
	MH-83	1
	I-81.4	1
	I-82.2	1
	I 90.1	1
	I 91.1	1
	I 92.1	2
TOTAL		208

CONCRETE CURB & GUTTER ITEMS

CATEGORY	STAGE	STATION - STATION	LOCATION	SPV.0090.02 TYPE SPECIAL SLOPING CURB 18-INCH LF	601.0120 CONCRETE CURB TYPE J LF	601.0407 18-INCH TYPE D LF	601.0409 30-INCH TYPE A LF	601.0415 30-INCH TYPE J LF	601.0411 30-INCH TYPE D LF	601.0413 30-INCH TYPE G LF	601.0452 INTEGRAL 30-INCH TYPE D LF	601.0454 INTEGRAL 30-INCH TYPE J LF	601.0600 CONCRETE CURB PEDESTRIAN LF	650.5500 CONSTRUCTION STAKING CURB GUTTER AND CURB & GUTTER LF
0010	STAGE 2	140+00 - 153+00	RT	---	---	---	---	---	1,280	---	80	---	55	1,415
		140+00 - 153+00	MEDIAN	---	---	---	---	---	---	---	---	---	---	---
		153+00 - 179+50	RT	---	---	100	---	---	2,480	---	160	---	110	2,850
		179+50 - 186+30	RT	---	---	---	---	---	630	---	80	---	40	750
		186+30 - 206+00	RT	---	---	1,420	---	---	2,010	---	---	---	15	3,445
		206+00 - 233+25	RT	---	---	---	---	1,960	---	---	---	---	---	1,960
		206+00 - 233+25	MEDIAN	4,050	---	---	---	---	---	---	---	---	---	4,050
		233+25 - 250+50	RT	---	---	---	---	1,510	---	---	---	80	---	1,590
		233+25 - 250+50	MEDIAN	2,630	---	---	---	---	---	---	---	---	---	2,630
		250+50 - 257+50	RT	---	---	---	---	780	---	---	---	---	---	780
		250+50 - 257+50	MEDIAN	700	125	---	---	---	---	---	---	---	---	825
		257+50 - 274+75	RT	---	---	---	---	---	---	---	---	---	---	---
		257+50 - 274+75	MEDIAN	2,460	---	---	---	1,860	---	---	---	---	---	4,320
		274+75 - 281+00	RT	---	---	---	---	540	---	---	---	---	---	540
		274+75 - 281+00	MEDIAN	1,130	---	---	---	---	---	---	---	---	---	1,130
		SE RAMP	RT	---	---	---	---	---	2,780	---	---	---	---	2,780
		NE RAMP	RT	---	---	---	---	---	2,660	---	---	---	---	2,660
		CALUMET RD. (EB)	FAR LOOP DETECTOR	---	---	---	7	---	---	---	---	---	---	7
		BRADLEY RD. (EB)	FAR LOOP DETECTOR	---	---	---	7	---	---	---	---	---	---	7
		DEAN RD. (EB)	FAR LOOP DETECTOR	---	---	---	7	---	---	---	---	---	---	7
		NORTHRIDGE LAKES BLVD. (EB)	FAR LOOP DETECTOR	---	---	---	7	---	---	---	---	---	---	7
		SUBTOTAL (STAGE 2)		10,970	125	1,520	28	6,650	11,840	0	320	80	220	31,753
	STAGE	140+00 - 153+00	LT	---	---	---	---	---	1,348	---	---	---	30	1,378
		140+00 - 153+00	MEDIAN	---	---	900	---	---	---	---	---	---	---	900
		153+00 - 179+50	LT	---	---	---	---	---	2,820	---	160	---	120	3,100
		153+00 - 179+50	MEDIAN	---	---	2,130	---	---	---	---	---	---	---	2,130
		179+50 - 186+30	LT	---	---	---	---	---	750	---	80	---	50	880
		179+50 - 186+30	MEDIAN	---	---	180	---	---	---	---	---	---	---	180
		186+30 - 206+00	LT	---	---	---	---	---	1,970	---	80	---	20	2,070
		186+30 - 206+00	MEDIAN	---	---	2,170	---	---	---	---	---	---	---	2,170
		206+00 - 233+25	LT	---	---	---	---	2,080	---	---	---	80	15	2,175
		206+00 - 233+25	MEDIAN	2,050	---	---	---	---	---	---	---	---	---	2,050
		233+25 - 250+50	LT	---	---	---	---	1,370	---	---	---	---	---	1,370
		233+25 - 250+50	MEDIAN	1,130	170	---	---	---	---	---	---	---	---	1,300
		250+50 - 257+50	LT	---	---	---	---	800	---	---	---	80	30	910
		250+50 - 257+50	MEDIAN	730	---	---	---	---	---	---	---	---	---	730
		257+50 - 274+75	LT	---	---	---	---	1,870	---	---	---	80	100	2,050
		257+50 - 274+75	MEDIAN	440	---	---	---	---	---	---	---	---	---	440
		274+75 - 281+00	LT	---	---	---	---	620	---	---	---	---	40	660
		274+75 - 281+00	MEDIAN	---	---	---	---	---	---	---	---	---	---	---
		SW RAMP	LT	---	---	---	---	---	3,270	---	---	---	---	3,270
		NW RAMP	LT	---	---	---	---	---	2,960	---	---	---	---	2,960
		CALUMET RD. (WB)	FAR LOOP DETECTOR	---	---	---	7	---	---	---	---	---	---	7
		BRADLEY RD. (WB)	FAR LOOP DETECTOR	---	---	---	7	---	---	---	---	---	---	7
		SERVITE DR. (WB)	FAR LOOP DETECTOR	---	---	---	12	---	---	---	---	---	---	12
		SUBTOTAL (STAGE 3)		4,350	170	5,380	26	6,740	13,118	0	320	240	405	30,749
	STAGE	138+25 - 153+00	MEDIAN	---	---	2,330	---	---	---	---	---	---	---	2,330
		153+00 - 179+50	MEDIAN	---	---	2,980	---	---	---	---	---	---	---	2,980
		179+50 - 186+30	MEDIAN	---	---	900	---	---	---	---	---	---	---	900
		186+30 - 206+00	MEDIAN	---	---	460	---	---	---	---	---	---	---	460
		206+00 - 233+25	MEDIAN	1,020	---	---	---	---	---	---	---	---	---	1,020
		233+25 - 250+50	MEDIAN	850	---	---	---	---	---	---	---	---	---	850
		250+50 - 257+50	MEDIAN	100	---	---	---	---	---	---	---	---	---	100
		257+50 - 274+75	MEDIAN	590	---	---	---	---	---	---	---	---	---	590
		274+75 - 281+00	MEDIAN	630	---	---	---	---	---	---	---	---	---	630
		281+00 - 284+79	MEDIAN		---	---	---	---	---	760	---	---	---	760
		SUBTOTAL (STAGE 4)		3,190	0	6,670	0	0	0	760	0	0	0	10,620
		TOTALS		18,510	295	13,570	54	13,390	24,958	760	640	320	625	73,122

CONCRETE SIDEWALK 5-INCH

CATEGORY	STATION-STATION	OFFSET	602.0410 SF
0010	143+66 - 143+86	RT	139
	143+71 - 143+76	MEDIAN	105
	144+35 - 144+82	MEDIAN	233
	144+62 - 145+70	MEDIAN	539
	150+12 - 152+40	MEDIAN	1136
	152+26 - 152+65	MEDIAN	191
	11+00 'C' - 11+30 'C'	MEDIAN	106
	152+53 - 152+83	RT	399
	153+23 - 153+59	LT	372
	153+34 - 153+81	MEDIAN	237
	153+34 - 153+44	RT	142
	153+61 - 154+68	MEDIAN	534
	161+09 - 161+14	MEDIAN	38
	167+07 - 167+12	MEDIAN	60
	172+45 - 173+51	MEDIAN	528
	173+31 - 173+87	MEDIAN	280
	174+46 - 174+99	MEDIAN	268
	174+79 - 178+74	MEDIAN	1973
	178+54 - 178+90	MEDIAN	184
	178+68 - 178+99	RT	353
	178+61 - 178+95	LT	295
	11+33 'B' - 11+42 'B'	MEDIAN	74
	10+55 'B1' - 10+66 'B1'	MEDIAN	96
	179+82 - 180+09	LT	328
	179+85 - 179+95	RT	151
	179+91 - 180+26	MEDIAN	176
	180+06 - 182+52	MEDIAN	1234
	184+98 - 185+22	MEDIAN	124
	186+66 - 187+17	MEDIAN	256
	186+97 - 187+97	MEDIAN	498
	204+66 - 205+33	MEDIAN	335
	205+13 - 205+64	MEDIAN	256
	205+55 - 205+74	RT	181
	10+86 'D' - 11+14 'D'	RT	140
	205+53 - 205+72	LT	174
	206+33 - 206+85	MEDIAN	254
	206+23 - 206+48	LT	241
	206+24 - 209+17	RT	1746
	206+65 - 207+64	MEDIAN	499
	213+26 - 213+71	MEDIAN	224
	213+51 - 214+59	MEDIAN	539
	232+20 'SE1' - 232+31 'SE1'	LT	136
	232+33 'SE' - 232+68 'SE'	LT	297
	232+63 'SW' - 232+72 'SW'	RT	91
	232+64 'SW' - 232+96 'SW'	LT	147
	232+54 'SW1' - 232+62 'SW1'	LT	39
	232+57 'SW1' - 232+65 'SW1'	RT	100
	232+71 'SE' - 232+96 'SE'	RT	103
	120+03 'BD' - 120+17 'BD'	RT	79
	120+45 'BD' - 120+65 'BD'	RT	100
	120+66 'BD' - 120+90 'BD'	LT	119
	123+24 'BD' - 123+49 'BD'	RT	129
	123+52 'BD' - 123+78 'BD'	LT	137
	124+04 'BD' - 124+21 'BD'	LT	93
	232+85 'NW' - 233+08 'NW'	LT	98
	233+15 'NW' - 233+52 'NW'	RT	258
	233+56 'NW1' - 233+68 'NW1'	RT	118
	233+90 'NE1' - 234+05 'NE1'	LT	137
	234+06 'NE1' - 234+17 'NE1'	RT	93
	243+80 - 256+75	RT	3973
	248+00 - 250+09	MEDIAN	1045
	249+89 - 250+20	MEDIAN	155
	10+91 'N' - 11+60 'N'	ISLAND	1017
	251+21 - 251+26	MEDIAN	167
	254+96 - 256+72	MEDIAN	873
	256+46 - 256+96	ISLAND	474

CONT. ABOVE

CONCRETE SIDEWALK 5-INCH (CONT.)

CATEGORY	STATION-STATION	OFFSET	602.0410 SF
0010	256+52 - 256+90	MEDIAN	194
	257+74 - 261+61	RT	2085
	257+78 - 261+66	LT	2157
	257+80 - 258+21	MEDIAN	204
	258+01 - 259+76	MEDIAN	873
	261+90 - 261+96	LT	30
	261+92 - 263+51	MEDIAN	793
	263+31 - 263+70	MEDIAN	193
	263+54 - 263+72	LT	102
	264+06 - 264+21	MEDIAN	83.9
	264+57 - 269+83	LT	2634
	264+65 - 264+70	MEDIAN	107.4
	270+07 - 272+45	LT	1204
	270+26 - 270+31	MEDIAN	83
	272+97 - 274+30	MEDIAN	664
	274+10 - 274+52	MEDIAN	212
	274+33 - 274+58	LT	244
	275+29 - 275+34	MEDIAN	91
	275+03 - 275+39	LT	389
	SUBTOTAL (0010)		37,959
0050	140+00 - 140+85	LT	425
	141+25 - 146+91	LT	2,864
	144+56 - 145+73	RT	585
	146+08 - 150+83	RT	2,375
	147+31 - 152+55	LT	2,737
	151+18 - 152+53	RT	889
	153+59 - 155+75	LT	1,300
	153+40 - 160+45	RT	3,555
	156+03 - 157+51	LT	740
	157+90 - 158+57	LT	335
	158+72 - 160+53	LT	905
	160+87 - 161+96	LT	584
	160+84 - 164+32	RT	1,779
	162+30 - 164+46	LT	1,080
	164+71 - 167+57	RT	1,469
	164+74 - 166+15	LT	705
	166+33 - 167+54	LT	658
	167+92 - 170+17	RT	1,125
	170+56 - 173+98	RT	1,920
	173+81 - 173+93	LT	182
	174+28 - 175+60	RT	699
	174+29 - 176+55	LT	1,487
	175+94 - 177+06	RT	560
	176+79 - 177+21	LT	210
	177+46 - 178+68	RT	767
	177+51 - 178+61	LT	550
	179+95 - 181+23	RT	661
	180+43 - 181+07	LT	320
	181+37 - 181+53	LT	80
	181+62 - 182+53	RT	455
	181+81 - 183+57	LT	880
	182+93 - 183+70	RT	385
	183+85 - 183+98	LT	65
	184+10 - 186+08	RT	1,255
	184+22 - 186+07	LT	945
	186+48 - 191+59	RT	2,612
	186+60 - 192+39	LT	3,168
	193+39 - 202+50	RT	4,575
	194+09 - 202+49	LT	4,200
	202+89 - 205+55	RT	1,330
	202+93 - 205+53	LT	1,300
	206+48 - 206+89	LT	419
	209+49 - 209+71	RT	110
	209+88 - 210+66	RT	390
	210+87 - 211+53	RT	330

CONT. ABOVE

CONCRETE SIDEWALK 5-INCH (CONT.)

CATEGORY	STATION-STATION	OFFSET	602.0410 SF
0050	211+80 - 212+71	RT	476
	213+22 - 213+39	RT	88
	232+99 'NW' - 247 +00 'NW'	LT	6,505
	247+01 - 249+74	LT	1,358
	251+52 - 256+80	RT	2,679
	251+06 - 255+68	LT	2,555
	256+07 - 256+97	LT	572
	261+61 - 275+34	RT	7,034
	SUBTOTAL (0050)		75,232
	TOTAL		113,191

CONCRETE SIDEWALK 6-INCH

CATEGORY	STATION-STATION	OFFSET	602.0415 SF
0010	261+66 - 261+90	LT	120
	269+83 - 270+07	LT	120
	272+45 - 272+70	LT	125
	276+53 - 276+84	LT	155
	10+96 'B' - 11+26 'B'	RT	150
	10+91 'D' - 11+10 'D'	RT	95
	SUBTOTAL (0010)		765
0050	140+85 - 141+25	LT	200
	143+86 - 144+56	RT	350
	145+73 - 146+08	RT	175
	146+91 - 147+31	LT	200
	150+83 - 151+18	RT	175
	155+75 - 156+03	LT	140
	157+51 - 157+90	LT	195
	158+57 - 158+72	LT	75
	160+53 - 160+87	LT	170
	160+45 - 160+84	RT	195
	161+96 - 162+30	LT	170
	164+32 - 164+71	RT	195
	164+46 - 164+74	LT	140
	166+15 - 166+33	LT	90
	167+57 - 167+92	RT	175
	170+17 - 170+56	RT	195
	173+98 - 174+28	RT	150
	175+60 - 175+94	RT	170
	177+06 - 177+46	RT	200
	176+55 - 176+79	LT	120
	177+21 - 177+51	LT	150
	180+10 - 180+43	LT	165
	181+07 - 181+37	LT	150
	181+53 - 181+81	LT	140
	181+23 - 181+62	RT	195
	182+53 - 182+93	RT	200
	183+57 - 183+85	LT	140
	183+70 - 184+10	RT	200
	183+98 - 184+22	LT	120
	186+08 - 186+48	RT	200
	202+49 - 202+93	LT	220
	202+50 - 202+89	RT	195
	209+17 - 209+49	RT	160
	209+71 - 209+88	RT	85
	210+66 - 210+87	RT	105
	211+53 - 211+80	RT	135
	255+68 - 256+07	LT	195
	SUBTOTAL (0050)		6,235
	TOTAL		7,000

ADDENDUM #1
REV. SHEET 584 → 592
12/4/07

CONCRETE SIDEWALK

CATEGORY	STATION-STATION	OFFSET	602.0410 5-INCH SF	602.0420 7-INCH SF
0010	143+66 - 143+86	RT	139	---
	143+71 - 143+76	MEDIAN	105	---
	144+35 - 144+82	MEDIAN	233	---
	144+62 - 145+70	MEDIAN	539	---
	150+12 - 152+40	MEDIAN	1136	---
	152+26 - 152+65	MEDIAN	191	---
	11+00 'C' - 11+30 'C'	MEDIAN	105	---
	152+53 - 152+83	RT	---	399
	153+23 - 153+59	LT	---	372
	153+34 - 153+81	MEDIAN	237	---
	153+34 - 153+44	RT	---	142
	153+61 - 154+68	MEDIAN	534	---
	161+09 - 161+14	MEDIAN	38	---
	167+07 - 167+12	MEDIAN	60	---
	172+45 - 173+51	MEDIAN	528	---
	173+31 - 173+87	MEDIAN	280	---
	174+46 - 174+99	MEDIAN	268	---
	174+79 - 178+74	MEDIAN	1973	---
	178+54 - 178+90	MEDIAN	184	---
	178+68 - 178+76	RT	80	---
	178+76 - 178+99	RT	---	273
	178+61 - 178+70	LT	45	---
	178+70 - 178+95	LT	---	250
	11+33 'B' - 11+42 'B'	MEDIAN	74	---
	10+55 'B1' - 10+66 'B1'	MEDIAN	96	---
	179+82 - 180+09	LT	---	328
	179+85 - 179+95	RT	---	151
	179+91 - 180+26	MEDIAN	176	---
	180+05 - 182+52	MEDIAN	1234	---
	184+98 - 185+22	MEDIAN	124	---
	186+66 - 187+17	MEDIAN	256	---
	186+97 - 187+97	MEDIAN	498	---
	204+66 - 205+33	MEDIAN	335	---
	205+13 - 205+64	MEDIAN	256	---
	205+55 - 205+74	RT	---	181
	10+86 'D' - 11+14 'D'	RT	140	---
	205+53 - 205+72	LT	---	174
	206+33 - 206+85	MEDIAN	254	---
	206+23 - 206+48	LT	---	241
	206+24 - 206+52	RT	---	150
	205+52 - 209+17	RT	1586	---
	206+65 - 207+64	MEDIAN	499	---
	213+26 - 213+71	MEDIAN	224	---
	213+51 - 214+59	MEDIAN	539	---
	232+20 'SE1' - 232+31 'SE1'	LT	136	---
	232+33 'SE' - 232+68 'SE'	LT	297	---
	232+63 'SW' - 232+72 'SW'	RT	91	---
	232+64 'SW' - 232+96 'SW'	LT	147	---
	232+54 'SW1' - 232+62 'SW1'	LT	39	---
	232+57 'SW1 - 232+65 'SW1'	RT	100	---
	232+71 'SE' - 232+96 'SE'	RT	103	---
	120+03 'BD' - 120+17 'BD'	RT	79	---
	120+45 'BD' - 120+65 'BD'	RT	100	---
	120+66 'BD' - 120+90 'BD'	LT	119	---
	123+24 'BD' - 123+49 'BD'	RT	129	---
	123+52 'BD' - 123+78 'BD'	LT	137	---
	124+04 'BD' - 124+21 'BD'	LT	93	---
	232+85 'NW' - 233+08 'NW'	LT	98	---
	233+15 'NW' - 233+52 'NW'	RT	258	---
	233+56 'NW1' - 233+68 'NW1'	RT	118	---
	233+90 'NE1' - 234+05 'NE1'	LT	137	---
	234+06 'NE1' - 234+17 'NE1'	RT	93	---
	243+80 - 256+75	RT	3973	---
	248+00 - 250+09	MEDIAN	1045	---
	249+89 - 250+20	MEDIAN	155	---
	10+91 'N' - 11+60 'N'	ISLAND	1017	---
	251+21 - 251+26	MEDIAN	167	---
	254+96 - 256+72	MEDIAN	873	---
	256+46 - 256+96	ISLAND	474	---

CONCRETE SIDEWALK (CONT.)

CATEGORY	STATION-STATION	OFFSET	602.0410 5-INCH SF	602.0420 7-INCH SF
0010	256+52 - 256+90	MEDIAN	194	---
	257+74 - 258+01	RT	---	280
	258+01 - 261+61	RT	1805	---
	257+78 - 258+00	LT	---	145
	258+00 - 261+66	LT	2012	---
	257+80 - 258+21	MEDIAN	204	---
	258+01 - 259+76	MEDIAN	873	---
	261+90 - 261+96	LT	30	---
	261+92 - 263+51	MEDIAN	793	---
	263+31 - 263+70	MEDIAN	193	---
	263+54 - 263+72	LT	102	---
	264+08 - 264+21	MEDIAN	84	---
	264+57 - 269+83	LT	2634	---
	264+65 - 264+70	MEDIAN	107	---
	270+07 - 272+45	LT	1204	---
	270+26 - 270+31	MEDIAN	83	---
	272+97 - 274+30	MEDIAN	664	---
	274+10 - 274+52	MEDIAN	212	---
	274+33 - 274+58	LT	244	---
	275+29 - 275+34	MEDIAN	91	---
	275+03 - 275+39	LT	389	---
	SUBTOTAL (0010)		34,863	3,096
0050	140+00 - 140+85	LT	425	---
	141+25 - 146+91	LT	2,864	---
	144+56 - 145+73	RT	585	---
	146+08 - 150+83	RT	2,375	---
	147+31 - 152+32	LT	2,537	---
	152+32 - 152+55	LT	---	200
	151+18 - 152+53	RT	889	---
	153+59 - 155+75	LT	1,300	---
	153+40 - 153+63	RT	---	128
	153+40 - 160+45	RT	3,425	---
	156+03 - 157+51	LT	740	---
	157+90 - 158+57	LT	335	---
	158+72 - 160+53	LT	905	---
	160+87 - 161+96	LT	584	---
	160+84 - 164+32	RT	1,779	---
	162+30 - 164+46	LT	1,080	---
	164+71 - 167+57	RT	1,469	---
	164+74 - 166+15	LT	705	---
	166+33 - 167+54	LT	658	---
	167+92 - 170+17	RT	1,125	---
	170+56 - 173+98	RT	1,920	---
	173+81 - 173+93	LT	182	---
	174+28 - 175+60	RT	699	---
	174+29 - 176+55	LT	1,487	---
	175+94 - 177+06	RT	560	---
	176+79 - 177+21	LT	210	---
	177+46 - 178+68	RT	767	---
	177+51 - 178+61	LT	550	---
	179+95 - 180+05	RT	---	74
	180+05 - 181+23	RT	587	---
	180+43 - 181+07	LT	320	---
	181+37 - 181+53	LT	80	---
	181+62 - 182+53	RT	455	---
	181+81 - 183+57	LT	880	---
	182+93 - 183+70	RT	385	---
	183+85 - 183+98	LT	65	---
	184+10- 186+08	RT	1,255	---
	184+22 - 185+87	LT	825	---
	185+87 - 186+07	LT	---	120
	186+48 - 191+59	RT	2,612	---
	186+60 - 186+80	LT	---	155
	186+60 - 192+39	LT	3,013	---
	193+39 - 202+50	RT	4,575	---
	194+09 - 202+49	LT	4,200	---
	202+89 - 205+48	RT	1,281	---
	205+48 - 205+55	RT	---	49
	202+93 - 205+47	LT	1,270	---
	205+47 - 205+53	LT	---	30
	206+48 - 206+89	LT	419	---
	209+49 - 209+71	RT	110	---
	209+88 - 210+66	RT	390	---
	210+87 - 211+53	RT	330	---

CONCRETE SIDEWALK (CONT.)

CATEGORY	STATION-STATION	OFFSET	602.0410 5-INCH SF	602.0420 7-INCH SF
0050	211+80 - 212+71	RT	476	---
	213+22 - 213+39	RT	88	---
	232+99 'NW' - 247 +00 'NW'	LT	6,505	---
	247+01 - 249+74	LT	1,358	---
	251+52 - 256+80	RT	2,679	---
	251+06 - 255+68	LT	2,555	---
	256+07 - 256+75	LT	332	---
	256+75 - 256+97	LT	---	240
	261+61 - 275+34	RT	7,034	---
	SUBTOTAL (0050)		74,234	996
	TOTAL		109,097	4,092

CONCRETE SIDEWALK 6-INCH

CATEGORY	STATION-STATION	OFFSET	602.0415 SF
0010	261+66 - 261+90	LT	120
	269+83 - 270+07	LT	120
	272+45 - 272+70	LT	125
	276+53 - 276+84	LT	155
	10+96 'B' - 11+26 'B'	RT	150
	10+91 'D' - 11+10 'D'	RT	95
	SUBTOTAL (0010)		765
0050	140+85 - 141+25	LT	200
	143+86 - 144+56	RT	350
	145+73 - 146+08	RT	175
	146+91 - 147+31	LT	200
	150+83 - 151+18	RT	175
	155+75 - 156+03	LT	140
	157+51 - 157+90	LT	195
	158+57 - 158+72	LT	75
	160+53 - 160+87	LT	170
	160+45 - 160+84	RT	195
	161+96 - 162+30	LT	170
	164+32 - 164+71	RT	195
	164+46 - 164+74	LT	140
	166+15 - 166+33	LT	90
	167+57 - 167+92	RT	175
	170+17 - 170+56	RT	195
	173+98 - 174+28	RT	150
	175+60 - 175+94	RT	170
	177+06 - 177+46	RT	200
	176+55 - 176+79	LT	120
	177+21 - 177+51	LT	150
	180+10 - 180+43	LT	165
	181+07 - 181+37	LT	150
	181+53 - 181+81	LT	140
	181+23 - 181+52	RT	195
	182+53 - 182+93	RT	200
	183+57 - 183+85	LT	140
	183+70 - 184+10	RT	200
	183+98 - 184+22	LT	120
	186+08 - 186+48	RT	200
	202+49 - 202+93	LT	220
	202+50 - 202+89	RT	195
	209+17 - 209+49	RT	160
	209+71 - 209+88	RT	85
	210+66 - 210+87	RT	105
	211+53 - 211+80	RT	135
	255+68 - 256+07	LT	195
	SUBTOTAL (0050)		6,235
	TOTAL		7,000

CONT. ABOVE

CONT. ABOVE

PROJECT NO: 2140-08-73	HWY: STH 181	COUNTY: MILWAUKEE	MISCELLANEOUS QUANTITIES	SHEET 592A	E

FILE NAME : ¢¢....designfile....¢¢ PLOT DATE : ¢¢...plottingdate...¢¢ PLOT BY : ¢¢...plotuser...¢¢ PLOT NAME : PLOT SCALE : ¢¢.....plotscale.....¢¢ WISDOT/CADDS SHEET 43

CONCRETE SIDEWALK HES 6-INCH

CATEGORY	STATION-STATION	OFFSET	SPV.0165.01 SF
0010	269+83 - 270+07	LT	120
	276+53 - 276+84	LT	155
	SUBTOTAL (0010)		275
0050	143+86 - 144+56	RT	350
	150+83 - 151+18	RT	175
	155+75 - 156+03	LT	140
	157+51 - 157+90	LT	195
	158+57 - 158+72	LT	75
	160+53 - 160+87	LT	170
	160+45 - 160+84	RT	195
	164+32 - 164+71	RT	195
	166+15 - 166+33	LT	90
	167+57 - 167+92	RT	175
	170+17 - 170+56	RT	195
	173+98 - 174+28	RT	150
	177+06 - 177+46	RT	200
	181+07 - 181+37	LT	150
	181+53 - 181+81	LT	140
	182+53 - 182+93	RT	200
	183+57 - 183+85	LT	140
	183+98 - 184+22	LT	120
	202+50 - 202+89	RT	195
	209+17 - 209+49	RT	160
	209+71 - 209+88	RT	85
	SUBTOTAL (0050)		3,495
	TOTAL		3,770

CURB RAMP DETECTABLE WARNING FIELD YELLOW

CATEGORY	STATION	OFFSET	602.0505 SF
0010	143+74	51' LT	8
	143+74	7' LT	8
	143+74	9' RT	8
	143+74	51' RT	8
	152+49	59' LT	8
	152+41	52' LT	8
	152+54	9' RT	16
	152+61	51' RT	8
	152+80	70' RT	8
	153+29	59' LT	8
	153+51	51' LT	8
	153+51	9' LT	16
	153+51	53' RT	8
	153+37	69' RT	8
	161+18	51' LT	8
	161+18	2' RT	8
	161+18	8' RT	8
	161+18	51' RT	8
	167+09	51' LT	8
	167+09	9' LT	8
	167+09	2' LT	8

CONT. ABOVE

CURB RAMP DETECTABLE WARNING FIELD YELLOW (CONT.)

CATEGORY	STATION	OFFSET	602.0505 SF
0010	167+09	51' RT	8
	167+48	56' LT	8
	173+84	121 LT	8
	173+84	83' LT	8
	173+89	63' LT	8
	174+33	65' LT	8
	174+48	51' LT	8
	174+48	10' LT	8
	174+48	9' LT	8
	174+48	51' RT	8
	178+92	64' LT	8
	178+84	53' LT	8
	178+84	8' RT	8
	178+84	10' RT	8
	178+84	51' RT	8
	178+96	63' RT	8
	179+40	65' LT	8
	179+45	65' LT	8
	179+36	63' RT	8
	179+41	63' RT	8
	179+86	66' LT	8
	179+96	52' LT	8
	179+96	9' LT	8
	179+96	8' LT	8
	179+96	53' RT	8
	179+87	64' RT	8
	186+01	56' LT	8
	185+96	53' LT	8
	185+96	51' RT	8
	186+66	57' LT	8
	186+72	53' LT	8
	186+72	10' LT	8
	186+72	9' LT	8
	186+72	51' RT	8
	205+66	57' LT	8
	205+56	51' LT	8
	205+57	8' RT	8
	205+57	10' RT	8
	205+57	51' RT	8
	205+68	56' RT	8
	206+28	59' LT	8
	206+40	54' LT	8
	206+40	10' LT	8
	206+40	8' LT	8
	206+40	54' RT	8
	206+29	60' RT	8
	212+63	60' RT	8
	213+29	60' RT	8
	249+65	52' LT	8
	250+12	54' LT	8
	250+18	43' LT	8
	250+26	54' LT	8
	250+18	23' RT	16
	250+18	56' RT	8
	251+12	56' LT	8
	251+23	52' LT	8
	251+23	7' LT	8
	251+23	21' RT	8
	251+23	56' RT	8
	256+94	56' LT	8
	256+82	44' LT	8
	256+82	9' RT	16

CONT. ABOVE

CURB RAMP DETECTABLE WARNING FIELD YELLOW (CONT.)

CATEGORY	STATION	OFFSET	602.0505 SF
0010	256+82	42' RT	8
	256+94	47' RT	8
	256+81	51' RT	8
	256+76	71' RT	8
	257+84	57' LT	8
	257+90	53' LT	8
	257+90	9' LT	16
	257+90	48' RT	8
	257+82	54' RT	8
	263+66	57' LT	8
	263+62	54' LT	8
	263+62	8' RT	8
	263+62	10' RT	8
	263+62	47' RT	8
	264+08	57' LT	8
	264+18	57' LT	8
	264+64	57' LT	8
	264+79	52' LT	8
	264+79	9' LT	8
	264+79	9' RT	8
	264+79	47' RT	8
	270+29	51' LT	8
	270+29	9' LT	8
	270+29	2' RT	8
	270+29	47' RT	8
	274+55	63' LT	8
	274+40	52' LT	8
	274+41	9' RT	16
	274+41	47' RT	8
	275+06	69' LT	8
	275+31	52' LT	8
	275+31	9' LT	8
	275+31	4' RT	8
	275+31	47' RT	8
	232+28 'SE1'	5' LT	8
	232+34 'SE1'	27' RT	8
	232+58 'SW1'	5' LT	8
	232+61 'SW1'	32' RT	8
	232+62 'SE'	23' LT	8
	232+68 'SW'	5' LT	8
	232+69 'SW'	23' RT	8
	232+79 'SE'	6' RT	8
	233+01 'NW'	5' LT	8
	233+22 'NW'	23' RT	8
	233+53 'NW1'	27' LT	8
	233+60 'NW1'	5' RT	8
	234+00 'NE1'	28' LT	8
	234+10 'NE1'	5' RT	8
	TOTAL		1,096

CONCRETE BARRIER TEMPORARY ITEMS

CATEGORY	STATION - STATION	STAGE	LOCATION	603.0500 CONCRETE BARRIER TEMPORARY PRECAST CONTRACTOR FURNISHED & DELIVERED LF	603.0801 CONCRETE BARRIER TEMPORARY PRECAST CONTRACTOR INSTALLED LF
0010	231+50.00 - 234+87.50	STAGE 2	MEDIAN LT	337.5	337.5
	231+50.00 - 234+87.50	STAGE 3	MEDIAN RT	---	337.5
	TOTALS			337.5	675.0

NOTE: CONCRETE BARRIER TEMPORARY PRECAST 12'-6" SECTIONS REQUIRED
ANCHORS REQUIRED ON TRAFFIC SIDE
SEE S.D.D CONCRETE BARRIER TEMPORARY PRECAST, 12'-6" FOR ADDITIONAL INFORMATION

STORM SEWER PIPE REINFORCED CONCRETE CLASS III ITEMS

CATEGORY	FROM STRUCTURE	TO STRUCTURE	608.0312 12-INCH LF	608.0315 15-INCH LF	608.0318 18-INCH LF	608.0321 21-INCH LF	608.0324 24-INCH LF	608.0327 27-INCH LF	608.0330 30-INCH LF	608.0336 36-INCH LF	608.0342 42-INCH LF	608.0354 54-INCH LF
0010	MH-1	24" TRUNKLINE	---	---	---	---	38	---	---	---	---	---
	21" TRUNKLINE	MH-1	---	---	---	8	---	---	---	---	---	---
	I-1.1	MH-1	13	---	---	---	---	---	---	---	---	---
	I-1.2	30" TRUNKLINE	2	---	---	---	---	---	---	---	---	---
	21" TRUNKLINE	MH-3	---	---	---	8	---	---	---	---	---	---
	18" TRUNKLINE	MH-3	---	---	8	---	---	---	---	---	---	---
	MH-3	24" TRUNKLINE	20	---	---	---	---	---	---	---	---	---
	MH-2	24" TRUNKLINE	---	---	---	---	29	---	---	---	---	---
	21" TRUNKLINE	MH-2	---	---	---	8	---	---	---	---	---	---
	I-2.1	MH-2	6	---	---	---	---	---	---	---	---	---
	MH-4	21" TRUNKLINE	---	---	---	8	---	---	---	---	---	---
	21" TRUNKLINE	MH-4	---	---	---	8	---	---	---	---	---	---
	I-4.1	MH-4	31	---	---	---	---	---	---	---	---	---
	I-4.2	I-4.1	5	---	---	---	---	---	---	---	---	---
	MH-6	18" TRUNKLINE	---	---	8	---	---	---	---	---	---	---
	15" TRUNKLINE	MH-6	---	8	---	---	---	---	---	---	---	---
	I-6.1	MH-6	13	---	---	---	---	---	---	---	---	---
	MH-5	21" TRUNKLINE	---	---	---	8	---	---	---	---	---	---
	18" TRUNKLINE	MH-5	---	---	8	---	---	---	---	---	---	---
	I-5.1	MH-5	6	---	---	---	---	---	---	---	---	---
	I-5.2	MH-5	46	---	---	---	---	---	---	---	---	---
	MH-7	18" TRUNKLINE	---	---	8	---	---	---	---	---	---	---
	15" TRUNKLINE	MH-7	---	8	---	---	---	---	---	---	---	---
	I-7.1	MH-7	6	---	---	---	---	---	---	---	---	---
	I-7.2	MH-7	38	---	---	---	---	---	---	---	---	---
	MH-8	15" TRUNKLINE	---	8	---	---	---	---	---	---	---	---
	15" TRUNKLINE	MH-8	---	8	---	---	---	---	---	---	---	---
	I-8.1	MH-8	13	---	---	---	---	---	---	---	---	---
	I-8.2	MH-8	23	---	---	---	---	---	---	---	---	---
	MH-9	15" TRUNKLINE	---	8	---	---	---	---	---	---	---	---
	15" TRUNKLINE	MH-9	---	8	---	---	---	---	---	---	---	---
	I-9.1	MH-9	5	---	---	---	---	---	---	---	---	---
	I-9.2	MH-9	50	---	---	---	---	---	---	---	---	---
	MH-10	15" TRUNKLINE	---	8	---	---	---	---	---	---	---	---
	15" TRUNKLINE	MH-10	---	8	---	---	---	---	---	---	---	---
	I-10.1	MH-10	13	---	---	---	---	---	---	---	---	---
	I-10.2	MH-10	23	---	---	---	---	---	---	---	---	---
	MH-11	15" TRUNKLINE	---	8	---	---	---	---	---	---	---	---
	15" TRUNKLINE	MH-11	---	8	---	---	---	---	---	---	---	---
	I-11.3	MH-11	17	---	---	---	---	---	---	---	---	---
	MH-12	15" TRUNKLINE	---	8	---	---	---	---	---	---	---	---
	15" TRUNKLINE	MH-12	---	8	---	---	---	---	---	---	---	---
	I-12.1	MH-12	14	---	---	---	---	---	---	---	---	---
	I-12.2	MH-12	22	---	---	---	---	---	---	---	---	---
	I-12.3	I-12.2	6	---	---	---	---	---	---	---	---	---
	MH13	15" TRUNKLINE	---	8	---	---	---	---	---	---	---	---
	15" TRUNKLINE	MH-13	---	8	---	---	---	---	---	---	---	---
	I-13.1	MH-13	29	---	---	---	---	---	---	---	---	---
	MH-14B	15" TRUNKLINE	---	8	---	---	---	---	---	---	---	---
	15" TRUNKLINE	MH-14B	---	8	---	---	---	---	---	---	---	---
	I-14.1	MH-14B	13	---	---	---	---	---	---	---	---	---
	MH-14	15" TRUNKLINE	---	8	---	---	---	---	---	---	---	---
	15" TRUNKLINE	MH-14	---	8	---	---	---	---	---	---	---	---
	I-14.2	MH-14	14	---	---	---	---	---	---	---	---	---
	15" TRUNKLINE	MH-14C	---	8	---	---	---	---	---	---	---	---
	MH-14C	18" TRUNKLINE	---	---	8	---	---	---	---	---	---	---
	I-14.6	MH-14C	15	---	---	---	---	---	---	---	---	---
	21" TRUNKLINE	MH-14D		---	---	8	---	---	---	---	---	---
	MH-14D	MH-14E	---	---	---	102	---	---	---	---	---	---
	MH-14E	21" TRUNKLINE	---	---	---	8	---	---	---	---	---	---
	I-14.5	MH-14D	16	---	---	---	---	---	---	---	---	---
	I-14.4	MH-14D	40	---	---	---	---	---	---	---	---	---
	I-14.3	I-14.4	14	---	---	---	---	---	---	---	---	---

CONT. ON NEXT PAGE

STORM SEWER PIPE REINFORCED CONCRETE CLASS III ITEMS (CONT.)

CATEGORY	FROM STRUCTURE	TO STRUCTURE	608.0312 12-INCH LF	608.0315 15-INCH LF	608.0318 18-INCH LF	608.0321 21-INCH LF	608.0324 24-INCH LF	608.0327 27-INCH LF	608.0330 30-INCH LF	608.0336 36-INCH LF	608.0342 42-INCH LF	608.0354 54-INCH LF
0010	I-14.8	MH-14E	22	---	---	---	---	---	---	---	---	---
	I-14.7	I-14.8	12	---	---	---	---	---	---	---	---	---
	21" TRUNKLINE	MH-16	---	---	---	8	---	---	---	---	---	---
	MH-16	27" TRUNKLINE	---	---	---	---	---	8	---	---	---	---
	I-16.1	MH-16	15	---	---	---	---	---	---	---	---	---
	MH-15	18" TRUNKLINE	---	---	8	---	---	---	---	---	---	---
	18" TRUNKLINE	MH-15	---	---	8	---	---	---	---	---	---	---
	MH-15	21" TRUNKLINE	---	---	---	8	---	---	---	---	---	---
	I-15.1	MH-15	33	---	---	---	---	---	---	---	---	---
	MH-17B	27" TRUNKLINE	---	---	---	---	---	8	---	---	---	---
	27" TRUNKLINE	MH-17B	---	---	---	---	---	8	---	---	---	---
	I-17.4	MH-17B	34	---	---	---	---	---	---	---	---	---
	MH-17	18" TRUNKLINE	---	---	8	---	---	---	---	---	---	---
	18" TRUNKLINE	MH-17	---	---	8	---	---	---	---	---	---	---
	I-17.1	MH-17	13	---	---	---	---	---	---	---	---	---
	I-17.2	MH-17	22	---	---	---	---	---	---	---	---	---
	I-17.3	I-17.2	16	---	---	---	---	---	---	---	---	---
	MH-18	18" TRUNKLINE	---	---	8	---	---	---	---	---	---	---
	15" TRUNKLINE	MH-18	---	8	---	---	---	---	---	---	---	---
	I-18.1	MH-18	14	---	---	---	---	---	---	---	---	---
	I-18.2	I-18.1	10	---	---	---	---	---	---	---	---	---
	MH-19	18" TRUNKLINE	---	---	8	---	---	---	---	---	---	---
	18" TRUNKLINE	MH-19	---	---	8	---	---	---	---	---	---	---
	I-19.1	MH-19	13	---	---	---	---	---	---	---	---	---
	I-19.3	MH-19	38	---	---	---	---	---	---	---	---	---
	I-19.2	I-19.3	12	---	---	---	---	---	---	---	---	---
	MH-20	15" TRUNKLINE	---	8	---	---	---	---	---	---	---	---
	15" TRUNKLINE	MH-20	---	8	---	---	---	---	---	---	---	---
	I-20.1	MH-20	13	---	---	---	---	---	---	---	---	---
	I-20.2	MH-20	22	---	---	---	---	---	---	---	---	---
	MH-21	15" TRUNKLINE	---	8	---	---	---	---	---	---	---	---
	15" TRUNKLINE	MH-21	---	8	---	---	---	---	---	---	---	---
	I-21.1	MH-21	21	---	---	---	---	---	---	---	---	---
	I-21.2	MH-21	17	---	---	---	---	---	---	---	---	---
	MH-21B	15" TRUNKLINE	---	8	---	---	---	---	---	---	---	---
	15" TRUNKLINE	MH-21B	---	8	---	---	---	---	---	---	---	---
	I-21B.1	MH-21B	24	---	---	---	---	---	---	---	---	---
	MH-21C	15" TRUNKLINE	---	8	---	---	---	---	---	---	---	---
	I-21B.2	MH-21C	56	---	---	---	---	---	---	---	---	---
	I-21B.3	MH-21C	64	---	---	---	---	---	---	---	---	---
	MH-22	15" TRUNKLINE	---	8	---	---	---	---	---	---	---	---
	15" TRUNKLINE	MH-22	---	8	---	---	---	---	---	---	---	---
	I-22.1	MH-22	13	---	---	---	---	---	---	---	---	---
	15" TRUNKLINE	MH-23	---	8	---	---	---	---	---	---	---	---
	MH-23	21" TRUNKLINE	---	---	---	8	---	---	---	---	---	---
	I-23.1	MH-23	15	---	---	---	---	---	---	---	---	---
	I-23.2	MH-23	38	---	---	---	---	---	---	---	---	---
	15" TRUNKLINE	MH-24	---	8	---	---	---	---	---	---	---	---
	MH-24	18" TRUNKLINE	---	---	8	---	---	---	---	---	---	---
	I-24.1	MH-24	23	---	---	---	---	---	---	---	---	---
	I-24.2	MH-24	13	---	---	---	---	---	---	---	---	---
	18" TRUNKLINE	MH-25	---	---	8	---	---	---	---	---	---	---
	MH-25	21" TRUNKLINE	---	---	---	8	---	---	---	---	---	---
	I-25.1	MH-25	49	---	---	---	---	---	---	---	---	---
	I-25.2	MH-25	10	---	---	---	---	---	---	---	---	---
	18" TRUNKLINE	MH-26	---	---	8	---	---	---	---	---	---	---
	24" TRUNKLINE	MH-26	---	---	---	---	8	---	---	---	---	---
	MH-26	27" TRUNKLINE	---	---	---	---	---	8	---	---	---	---
	21" TRUNKLINE	MH-26B	---	---	---	8	---	---	---	---	---	---
	MH-26B	24" TRUNKLINE	---	---	---	---	8	---	---	---	---	---
	MH-27	24" TRUNKLINE	---	---	---	---	8	---	---	---	---	---
	24" TRUNKLINE	MH-27	---	---	---	---	8	---	---	---	---	---
	I-27.5	MH-27	27	---	---	---	---	---	---	---	---	---

CONT. ON NEXT PAGE

STORM SEWER PIPE REINFORCED CONCRETE CLASS III ITEMS (CONT.)

CATEGORY	FROM STRUCTURE	TO STRUCTURE	608.0312 12-INCH LF	608.0315 15-INCH LF	608.0318 18-INCH LF	608.0321 21-INCH LF	608.0324 24-INCH LF	608.0327 27-INCH LF	608.0330 30-INCH LF	608.0336 36-INCH LF	608.0342 42-INCH LF	608.0354 54-INCH LF
0010	I-27.4	I-27.5	6	---	---	---	---	---	---	---	---	---
	I-27.2	I-27.4	19	---	---	---	---	---	---	---	---	---
	I-27.1	I-27.2	6	---	---	---	---	---	---	---	---	---
	I-27.3	MH-27	10	---	---	---	---	---	---	---	---	---
	MH-27B	24" TRUNKLINE	---	---	---	---	8	---	---	---	---	---
	24" TRUNKLINE	MH-27B	---	---	---	---	8	---	---	---	---	---
	I-27.6	MH-27B	35	---	---	---	---	---	---	---	---	---
	MH-28	24" TRUNKLINE	---	---	---	---	8	---	---	---	---	---
	24" TRUNKLINE	MH-28	---	---	---	---	14	---	---	---	---	---
	I-28.2	MH-28	8	---	---	---	---	---	---	---	---	---
	I-28.3	MH-28	38	---	---	---	---	---	---	---	---	---
	I-28.1	I-28.3	21	---	---	---	---	---	---	---	---	---
	MH-28B	21" TRUNKLINE	---	---	---	8	---	---	---	---	---	---
	18" TRUNKLINE	MH-28B	---	---	8	---	---	---	---	---	---	---
	MH-30	24" TRUNKLINE	---	---	---	---	8	---	---	---	---	---
	I-30.1	MH-30	15	---	---	---	---	---	---	---	---	---
	MH-29	MH-30	---	---	38	---	---	---	---	---	---	---
	I-29.5	MH-29	---	22	---	---	---	---	---	---	---	---
	I-29.5	15" TRUNKLINE	---	8	---	---	---	---	---	---	---	---
	I-29.6	I-29.5	6	---	---	---	---	---	---	---	---	---
	I-29.3	MH-29	18	---	---	---	---	---	---	---	---	---
	I-29.2	I-29.3	35	---	---	---	---	---	---	---	---	---
	EXISTING INLET	I-29.2	8	---	---	---	---	---	---	---	---	---
	MH-30B	15" TRUNKLINE	---	8	---	---	---	---	---	---	---	---
	I-30.2	MH-30B	16	---	---	---	---	---	---	---	---	---
	I-30.3	I-30.2	37	---	---	---	---	---	---	---	---	---
	I-30.4	MH-30	8	---	---	---	---	---	---	---	---	---
	I-30.5	I-30.4	35	---	---	---	---	---	---	---	---	---
	MH-30C	15" TRUNKLINE	---	8	---	---	---	---	---	---	---	---
	I-30.7	MH-30C	19	---	---	---	---	---	---	---	---	---
	I-30.6	I-30.7	35	---	---	---	---	---	---	---	---	---
	I-30.8	MH-30C	6	---	---	---	---	---	---	---	---	---
	I-30.9	I-30.8	35	---	---	---	---	---	---	---	---	---
	MH-30D	15" TRUNKLINE	---	8	---	---	---	---	---	---	---	---
	15" TRUNKLINE	MH-30D	---	8	---	---	---	---	---	---	---	---
	I-30.11	MH-30D	19	---	---	---	---	---	---	---	---	---
	I-30.10	I-30.11	35	---	---	---	---	---	---	---	---	---
	I-30.12	MH-30D	7	---	---	---	---	---	---	---	---	---
	I-30.13	I-30.12	35	---	---	---	---	---	---	---	---	---
	MH-31	54" TRUNKLINE	---	---	---	---	---	---	---	---	---	8
	54" TRUNKLINE	MH-31	---	---	---	---	---	---	---	---	---	8
	I-31.3	MH-31	13	---	---	---	---	---	---	---	---	---
	I-31.2	MH-31	28	---	---	---	---	---	---	---	---	---
	I-31.1	I-31.2	14	---	---	---	---	---	---	---	---	---
	MH-32	18" TRUNKLINE	---	---	8	---	---	---	---	---	---	---
	18" TRUNKLINE	MH-32	---	---	8	---	---	---	---	---	---	---
	I-32.1	MH-32	42	---	---	---	---	---	---	---	---	---
	18" TRUNKLINE	MH-32B	---	---	8	---	---	---	---	---	---	---
	MH-32B	21" TRUNKLINE	---	---	---	8	---	---	---	---	---	---
	I-32.3	MH-32B	15	---	---	---	---	---	---	---	---	---
	I-32.2	54" TRUNKLINE	13	---	---	---	---	---	---	---	---	---
	MH-33	21" TRUNKLINE	---	---	---	8	---	---	---	---	---	---
	21" TRUNKLINE	MH-33	---	---	---	8	---	---	---	---	---	---
	I-33.3	MH-33	29	---	---	---	---	---	---	---	---	---
	I-33.2	I-33.3	22	---	---	---	---	---	---	---	---	---
	I-33.1	I-33.2	7	---	---	---	---	---	---	---	---	---
	MH-34	MH-34B	---	---	---	23	---	---	---	---	---	---
	MH-34B	36" TRUNKLINE	---	---	---	---	---	---	---	8	---	---
	I-33.5	MH-34B	19	---	---	---	---	---	---	---	---	---
	18" TRUNKLINE	MH-34	---	---	8	---	---	---	---	---	---	---
	I-34.1	MH-35	15	---	---	---	---	---	---	---	---	---
	MH-35	18" TRUNKLINE	---	---	8	---	---	---	---	---	---	---

CONT. ON NEXT PAGE

STORM SEWER PIPE REINFORCED CONCRETE CLASS III ITEMS (CONT.)

CATEGORY	FROM STRUCTURE	TO STRUCTURE	608.0312 12-INCH LF	608.0315 15-INCH LF	608.0318 18-INCH LF	608.0321 21-INCH LF	608.0324 24-INCH LF	608.0327 27-INCH LF	608.0330 30-INCH LF	608.0336 36-INCH LF	608.0342 42-INCH LF	608.0354 54-INCH LF
0010	I-35.1	MH-35	30	---	---	---	---	---	---	---	---	---
	I-35.2	I-35.1	7	---	---	---	---	---	---	---	---	---
	MH-36	18" TRUNKLINE	---	---	8	---	---	---	---	---	---	---
	18" TRUNKLINE	MH-36	---	---	8	---	---	---	---	---	---	---
	I-36.1	MH-36	17	---	---	---	---	---	---	---	---	---
	18" TRUNKLINE	MH-37	---	---	8	---	---	---	---	---	---	---
	MH-37	24" TRUNKLINE	---	---	---	---	8	---	---	---	---	---
	I-37.1	MH-37	32	---	---	---	---	---	---	---	---	---
	I-37.2	I-37.1	20	---	---	---	---	---	---	---	---	---
	MH-38	24" TRUNKLINE	---	---	---	---	8	---	---	---	---	---
	24" TRUNKLINE	MH-38	---	---	---	---	8	---	---	---	---	---
	I-38.1	MH-38	18	---	---	---	---	---	---	---	---	---
	MH-39B	24" TRUNKLINE	---	---	---	---	8	---	---	---	---	---
	24" TRUNKLINE	MH-39B	---	---	---	---	8	---	---	---	---	---
	I-39.2	MH-39B	26	---	---	---	---	---	---	---	---	---
	I-39.1	I-39.2	24	---	---	---	---	---	---	---	---	---
	I-39.4	I-39.1	47	---	---	---	---	---	---	---	---	---
	MH-39	24" TRUNKLINE	---	---	---	---	8	---	---	---	---	---
	24" TRUNKLINE	MH-39	---	---	---	---	8	---	---	---	---	---
	I-39.3	MH-39	15	---	---	---	---	---	---	---	---	---
	MH-40	24" TRUNKLINE	---	---	---	---	8	---	---	---	---	---
	24" TRUNKLINE	MH-40	---	---	---	---	8	---	---	---	---	---
	I-40.3	MH-40	14	---	---	---	---	---	---	---	---	---
	I-40.1	MH-40	---	41	---	---	---	---	---	---	---	---
	I-40.2	I-40.1	---	6	---	---	---	---	---	---	---	---
	I-40.4	I-40.2	---	82	---	---	---	---	---	---	---	---
	I-40.5	I-40.4	39	---	---	---	---	---	---	---	---	---
	MH-41	24" TRUNKLINE	---	---	---	---	8	---	---	---	---	---
	24" TRUNKLINE	MH-41	---	---	---	---	8	---	---	---	---	---
	I-41.1	MH-41	38	---	---	---	---	---	---	---	---	---
	I-41.2	I-41.1	10	---	---	---	---	---	---	---	---	---
	I-41.3	I-41.2	38	---	---	---	---	---	---	---	---	---
	MH-42	24" TRUNKLINE	---	---	---	---	8	---	---	---	---	---
	24" TRUNKLINE	MH-42	---	---	---	---	8	---	---	---	---	---
	I-42.1	MH-42	15	---	---	---	---	---	---	---	---	---
	MH-43	24" TRUNKLINE	---	---	---	---	8	---	---	---	---	---
	24" TRUNKLINE	MH-43	---	---	---	---	8	---	---	---	---	---
	I-43.1	MH-43	24	---	---	---	---	---	---	---	---	---
	I-43.2	I-43.1	24	---	---	---	---	---	---	---	---	---
	I-43.3	I-43.2	38	---	---	---	---	---	---	---	---	---
	MH-44	24" TRUNKLINE	---	---	---	---	8	---	---	---	---	---
	24" TRUNKLINE	MH-44	---	---	---	---	8	---	---	---	---	---
	EXISTING INLET	MH-44	8	---	---	---	---	---	---	---	---	---
	I-44.1	MH-44	21	---	---	---	---	---	---	---	---	---
	EXISTING INLET	MH-45	8	---	---	---	---	---	---	---	---	---
	I-45.1	MH-45	9	---	---	---	---	---	---	---	---	---
	MH-45	12" TRUNKLINE	8	---	---	---	---	---	---	---	---	---
	MH-44B	24" TRUNKLINE	---	---	---	---	8	---	---	---	---	---
	24" TRUNKLINE	MH-44B	---	---	---	---	8	---	---	---	---	---
	I-45.2	MH-44B	72	---	---	---	---	---	---	---	---	---
	12" TRUNKLINE	MH-45C	8	---	---	---	---	---	---	---	---	---
	MH-45C	15" TRUNKLINE	---	8	---	---	---	---	---	---	---	---
	I-45.4	MH-45C	10	---	---	---	---	---	---	---	---	---
	EXISTING INLET	I-45.4	8	---	---	---	---	---	---	---	---	---
	MH-45B	24" TRUNKLINE	---	---	---	---	8	---	---	---	---	---
	24" TRUNKLINE	MH-45B	---	---	---	---	8	---	---	---	---	---
	I-45.5	MH-45B	---	---	7	---	---	---	---	---	---	---
	I-45.6	I-45.5	77	---	---	---	---	---	---	---	---	---
	I-45.7	I-45.6	23	---	---	---	---	---	---	---	---	---
	MH-46	18" TRUNKLINE	---	---	8	---	---	---	---	---	---	---
	15" TRUNKLINE	MH-46	---	8	---	---	---	---	---	---	---	---
	I-46.1	MH-46	55	---	---	---	---	---	---	---	---	---

CONT. ON NEXT PAGE

STORM SEWER PIPE REINFORCED CONCRETE CLASS III ITEMS (CONT.)

CATEGORY	FROM STRUCTURE	TO STRUCTURE	608.0312 12-INCH LF	608.0315 15-INCH LF	608.0318 18-INCH LF	608.0321 21-INCH LF	608.0324 24-INCH LF	608.0327 27-INCH LF	608.0330 30-INCH LF	608.0336 36-INCH LF	608.0342 42-INCH LF	608.0354 54-INCH LF
0010	I-46.2	MH-46	8	---	---	---	---	---	---	---	---	---
	EXISTING INLET	I-46.2	8	---	---	---	---	---	---	---	---	---
	18" TRUNKLINE	MH-46B	---	---	8	---	---	---	---	---	---	---
	MH-46B	18" TRUNKLINE	---	---	8	---	---	---	---	---	---	---
	I-46.7	MH-46B	9	---	---	---	---	---	---	---	---	---
	I-46.6	MH-46B	---	---	26	---	---	---	---	---	---	---
	I-46.5	I-46.6	---	80	---	---	---	---	---	---	---	---
	I-46.4	I-46.5	85	---	---	---	---	---	---	---	---	---
	I-46.3	I-46.4	24	---	---	---	---	---	---	---	---	---
	15" TRUNKLINE	I-46.5	---	16	---	---	---	---	---	---	---	---
	MH-47C	24" TRUNKLINE	---	---	---	---	8	---	---	---	---	---
	I-47.8	MH-47C	13	---	---	---	---	---	---	---	---	---
	I-47.9	I-47.8	52	---	---	---	---	---	---	---	---	---
	MH-47	MH-47C	76	---	---	---	---	---	---	---	---	---
	I-47.1	MH-47	12	---	---	---	---	---	---	---	---	---
	I-47.2	I-47.1	38	---	---	---	---	---	---	---	---	---
	I-48.1	MH-48	22	---	---	---	---	---	---	---	---	---
	MH-48	MH-49	---	46	---	---	---	---	---	---	---	---
	MH-49	15" TRUNKLINE	---	8	---	---	---	---	---	---	---	---
	I-49.1	MH-49	16	---	---	---	---	---	---	---	---	---
	I-49.2	I-49.1	24	---	---	---	---	---	---	---	---	---
	I-49.3	I-49.2	38	---	---	---	---	---	---	---	---	---
	MH-50	15" TRUNKLINE	---	8	---	---	---	---	---	---	---	---
	MH-50	MH-51	---	57	---	---	---	---	---	---	---	---
	I-50.1	MH-50	11	---	---	---	---	---	---	---	---	---
	MH-51	15" TRUNKLINE	---	8	---	---	---	---	---	---	---	---
	I-51.1	MH-51	24	---	---	---	---	---	---	---	---	---
	I-51.2	I-51.1	24	---	---	---	---	---	---	---	---	---
	I-51.3	I-51.2	55	---	---	---	---	---	---	---	---	---
	MH-53	15" TRUNKLINE	---	8	---	---	---	---	---	---	---	---
	15" TRUNKLINE	MH-53	---	8	---	---	---	---	---	---	---	---
	I-53.1	MH-53	4	---	---	---	---	---	---	---	---	---
	I-53.2	MH-53	24	---	---	---	---	---	---	---	---	---
	I-53.3	I-53.2	41	---	---	---	---	---	---	---	---	---
	I-53.4	I-53.3	30	---	---	---	---	---	---	---	---	---
	I-54.2	42" TRUNKLINE	31	---	---	---	---	---	---	---	---	---
	I-54.1	I-54.2	25	---	---	---	---	---	---	---	---	---
	MH-55	42" TRUNKLINE	---	---	---	---	---	---	---	---	8	---
	36" TRUNKLINE	MH-55	---	---	---	---	---	---	---	8	---	---
	I-55.4	MH-55	27	---	---	---	---	---	---	---	---	---
	I-55.1	MH-55	24	---	---	---	---	---	---	---	---	---
	I-55.2	I-55.1	12	---	---	---	---	---	---	---	---	---
	I-55.3	I-55.2	19	---	---	---	---	---	---	---	---	---
	I-55.5	27" TRUNKLINE	9	---	---	---	---	---	---	---	---	---
	27" TRUNKLINE	MH-55	---	---	---	---	---	8	---	---	---	---
	MH-56	27" TRUNKLINE	---	---	---	---	---	8	---	---	---	---
	27" TRUNKLINE	MH-56	---	---	---	---	---	8	---	---	---	---
	I-56.1	MH-56	20	---	---	---	---	---	---	---	---	---
	I-56.2	MH-56	21	---	---	---	---	---	---	---	---	---
	I-56.3	I-56.2	25	---	---	---	---	---	---	---	---	---
	MH-57	36" TRUNKLINE	---	---	---	---	---	---	---	8	---	---
	36" TRUNKLINE	MH-57	---	---	---	---	---	---	---	8	---	---
	I-57.1	MH-57	13	---	---	---	---	---	---	---	---	---
	MH-58	27" TRUNKLINE	---	---	---	---	---	8	---	---	---	---
	21" TRUNKLINE	MH-58	---	---	---	8	---	---	---	---	---	---
	I-58.1	MH-58	22	---	---	---	---	---	---	---	---	---
	18" TRUNKLINE	MH-59B	---	---	8	---	---	---	---	---	---	---
	MH-59B	MH-59C	---	---	36	---	---	---	---	---	---	---
	I-59.3	MH-59B	11	---	---	---	---	---	---	---	---	---
	I-59.2	I-59.3	56	---	---	---	---	---	---	---	---	---
	I-59.4	MH-59B	7	---	---	---	---	---	---	---	---	---
	I-59.5	I-59.4	39	---	---	---	---	---	---	---	---	---

CONT. ON NEXT PAGE

STORM SEWER PIPE REINFORCED CONCRETE CLASS III ITEMS (CONT.)

CATEGORY	FROM STRUCTURE	TO STRUCTURE	608.0312 12-INCH LF	608.0315 15-INCH LF	608.0318 18-INCH LF	608.0321 21-INCH LF	608.0324 24-INCH LF	608.0327 27-INCH LF	608.0330 30-INCH LF	608.0336 36-INCH LF	608.0342 42-INCH LF	608.0354 54-INCH LF
0010	I-59.6	I-59.4	24	---	---	---	---	---	---	---	---	---
	36" TRUNKLINE	MH-59C	---	---	---	---	---	---	---	8	---	---
	MH-59C	36" TRUNKLINE	---	---	---	---	---	---	---	8	---	---
	36" TRUNKLINE	MH-60	---	---	---	---	---	---	---	8	---	---
	MH-60	36" TRUNKLINE	---	---	---	---	---	---	---	8	---	---
	I-60.2	MH-60	19	---	---	---	---	---	---	---	---	---
	I-60.3	MH-60	28	---	---	---	---	---	---	---	---	---
	I-60.4	I-60.3	38	---	---	---	---	---	---	---	---	---
	I-59.1	I-58.1	287	---	---	---	---	---	---	---	---	---
	MH-61	36" TRUNKLINE	---	---	---	---	---	---	---	8	---	---
	36" TRUNKLINE	MH-61	---	---	---	---	---	---	---	8	---	---
	I-61.1	MH-61	7	---	---	---	---	---	---	---	---	---
	MH-62	21" TRUNKLINE	---	---	---	8	---	---	---	---	---	---
	18" TRUNKLINE	MH-62	---	---	8	---	---	---	---	---	---	---
	I-62.1	MH-62	14	---	---	---	---	---	---	---	---	---
	MH-63	36" TRUNKLINE	---	---	---	---	---	---	---	8	---	---
	36" TRUNKLINE	MH-63	---	---	---	---	---	---	---	8	---	---
	I-63.1	MH-63	23	---	---	---	---	---	---	---	---	---
	I-63.2	I-63.1	12	---	---	---	---	---	---	---	---	---
	MH-64	36" TRUNKLINE	---	---	---	---	---	---	---	8	---	---
	30" TRUNKLINE	MH-64	---	---	---	---	---	---	8	---	---	---
	I-64.1	MH-64	8	---	---	---	---	---	---	---	---	---
	MH-64B	18" TRUNKLINE	---	---	8	---	---	---	---	---	---	---
	18" TRUNKLINE	MH-64B	---	---	8	---	---	---	---	---	---	---
	I-64.2	MH-64B	16	---	---	---	---	---	---	---	---	---
	MH-65	18" TRUNKLINE	---	---	8	---	---	---	---	---	---	---
	18" TRUNKLINE	MH-65	---	---	8	---	---	---	---	---	---	---
	I-65.1	MH-65	37	---	---	---	---	---	---	---	---	---
	I-65.2	MH-65	40	---	---	---	---	---	---	---	---	---
	MH-66	30" TRUNKLINE	---	---	---	---	---	---	8	---	---	---
	30" TRUNKLINE	MH-66	---	---	---	---	---	---	8	---	---	---
	I-66.3	MH-66	14	---	---	---	---	---	---	---	---	---
	I-66.1	MH-66	26	---	---	---	---	---	---	---	---	---
	I-66.2	I-66.1	6	---	---	---	---	---	---	---	---	---
	MH-68	18" TRUNKLINE	---	---	8	---	---	---	---	---	---	---
	18" TRUNKLINE	MH-68	---	---	8	---	---	---	---	---	---	---
	I-68.1	MH-68	13	---	---	---	---	---	---	---	---	---
	I-68.2	MH-68	24	---	---	---	---	---	---	---	---	---
	I-68.3	I-68.2	6	---	---	---	---	---	---	---	---	---
	MH-67	30" TRUNKLINE	---	---	---	---	---	---	8	---	---	---
	30" TRUNKLINE	MH-67	---	---	---	---	---	---	8	---	---	---
	I-67.1	MH-67	15	---	---	---	---	---	---	---	---	---
	MH-69	18" TRUNKLINE	---	---	8	---	---	---	---	---	---	---
	15" TRUNKLINE	MH-69	---	8	---	---	---	---	---	---	---	---
	I-69.1	MH-69	13	---	---	---	---	---	---	---	---	---
	MH-70	30" TRUNKLINE	---	---	---	---	---	---	8	---	---	---
	24" TRUNKLINE	MH-70	---	---	---	---	8	---	---	---	---	---
	I-70.1	MH-70	14	---	---	---	---	---	---	---	---	---
	I-70.2	MH-70	28	---	---	---	---	---	---	---	---	---
	I-70.3	I-70.2	10	---	---	---	---	---	---	---	---	---
	MH-72	15" TRUNKLINE	---	8	---	---	---	---	---	---	---	---
	I-72.1	MH-72	19	---	---	---	---	---	---	---	---	---
	I-72.2	MH-72	13	---	---	---	---	---	---	---	---	---
	MH-71	27" TRUNKLINE	---	---	---	---	---	8	---	---	---	---
	27" TRUNKLINE	MH-71	---	---	---	---	---	8	---	---	---	---
	I-71.1	MH-71	14	---	---	---	---	---	---	---	---	---
	I-71.2	MH-71	22	---	---	---	---	---	---	---	---	---
	I-72.5	EXISTING TRUNKLINE	15	---	---	---	---	---	---	---	---	---
	I-72.3	EXISTING TRUNKLINE	10	---	---	---	---	---	---	---	---	---
	I-72.4	I-72.3	5	---	---	---	---	---	---	---	---	---

CONT. ON NEXT PAGE

STORM SEWER PIPE REINFORCED CONCRETE CLASS III ITEMS (CONT.)

CATEGORY	FROM STRUCTURE	TO STRUCTURE	608.0312 12-INCH LF	608.0315 15-INCH LF	608.0318 18-INCH LF	608.0321 21-INCH LF	608.0324 24-INCH LF	608.0327 27-INCH LF	608.0330 30-INCH LF	608.0336 36-INCH LF	608.0342 42-INCH LF	608.0354 54-INCH LF
0010	I-72.7	EXISTING TRUNK	14	---	---	---	---	---	---	---	---	---
	I-72.8	I-72.7	15	---	---	---	---	---	---	---	---	---
	I-72.6	I-72.8	42	---	---	---	---	---	---	---	---	---
	MH-74B	15" TRUNKLINE	---	8	---	---	---	---	---	---	---	---
	15" TRUNKLINE	MH-74B	---	8	---	---	---	---	---	---	---	---
	I-74.3	MH-74B	18	---	---	---	---	---	---	---	---	---
	I-74.4	I-74.3	24	---	---	---	---	---	---	---	---	---
	MH-73	18" TRUNKLINE	---	---	8	---	---	---	---	---	---	---
	I-73.1	MH-73	23	---	---	---	---	---	---	---	---	---
	MH-74	15" TRUNKLINE	---	8	---	---	---	---	---	---	---	---
	I-74.1	MH-74	13	---	---	---	---	---	---	---	---	---
	I-74.2	MH-74	24	---	---	---	---	---	---	---	---	---
	MH-75B	MH-75C	---	66	---	---	---	---	---	---	---	---
	I-75.5	MH-75B	11	---	---	---	---	---	---	---	---	---
	I-75.4	MH-75B	27	---	---	---	---	---	---	---	---	---
	I-75.3	I-75.4	19	---	---	---	---	---	---	---	---	---
	MH-75C	15" TRUNKLINE	---	8	---	---	---	---	---	---	---	---
	I-75.1	EXISTING TRUNK	6	---	---	---	---	---	---	---	---	---
	MH-76	15" TRUNKLINE	---	8	---	---	---	---	---	---	---	---
	I-76.1	MH-76	19	---	---	---	---	---	---	---	---	---
	I-76.2	MH-76	12	---	---	---	---	---	---	---	---	---
	15" TRUNKLINE	MH-77	---	8	---	---	---	---	---	---	---	---
	MH-77	24" TRUNKLINE	---	---	---	---	8	---	---	---	---	---
	27" TRUNKLINE	MH-77	---	---	---	---	---	8	---	---	---	---
	I-77.1	MH-77	14	---	---	---	---	---	---	---	---	---
	I-77.2	MH-77	22	---	---	---	---	---	---	---	---	---
	MH-78	24" TRUNKLINE	---	---	---	---	8	---	---	---	---	---
	24" TRUNKLINE	MH-78	---	---	---	---	8	---	---	---	---	---
	I-78.1	MH-78	17	---	---	---	---	---	---	---	---	---
	I-78.2	MH-78	19	---	---	---	---	---	---	---	---	---
	MH-79	15" TRUNKLINE	---	8	---	---	---	---	---	---	---	---
	15" TRUNKLINE	MH-79	---	8	---	---	---	---	---	---	---	---
	I-79.1	MH-79	9	---	---	---	---	---	---	---	---	---
	I-79.2	MH-79	22	---	---	---	---	---	---	---	---	---
	MH-81	15" TRUNKLINE	---	8	---	---	---	---	---	---	---	---
	I-81.2	MH-81	16	---	---	---	---	---	---	---	---	---
	I-81.1	MH-81	36	---	---	---	---	---	---	---	---	---
	I-81.3	I-81.4	26	---	---	---	---	---	---	---	---	---
	I-81.4	12" TRUNKLINE	8	---	---	---	---	---	---	---	---	---
	I-82.1	I-82.2	31	---	---	---	---	---	---	---	---	---
	I-82.3	I-82.2	12	---	---	---	---	---	---	---	---	---
	I-82.2	12" TRUNKLINE	8	---	---	---	---	---	---	---	---	---
	MH-86	24" TRUNKLINE	---	---	---	---	8	---	---	---	---	---
	24" TRUNKLINE	MH-86	---	---	---	---	8	---	---	---	---	---
	I-86.1	MH-86	26	---	---	---	---	---	---	---	---	---
	I-86.2	MH-86	11	---	---	---	---	---	---	---	---	---
	I-86.3	I-86.2	7	---	---	---	---	---	---	---	---	---
	I-84.2	I-84.1	24	---	---	---	---	---	---	---	---	---
	I-84.1	MH-84	46	---	---	---	---	---	---	---	---	---
	I-84.3	MH-84	18	---	---	---	---	---	---	---	---	---
	I-84.4	I-84.3	25	---	---	---	---	---	---	---	---	---
	I-84.5	I-84.3	28	---	---	---	---	---	---	---	---	---
	MH-84	18" TRUNKLINE	---	---	8	---	---	---	---	---	---	---
	15" TRUNKLINE	MH-84	---	8	---	---	---	---	---	---	---	---
	MH-83	15" TRUNKLINE	---	8	---	---	---	---	---	---	---	---
	I-83.1	I-83.2	17	---	---	---	---	---	---	---	---	---
	I-83.2	MH-83	10	---	---	---	---	---	---	---	---	---
	I-83.3	MH-83	11	---	---	---	---	---	---	---	---	---
	I-83.4	I-83.3	7	---	---	---	---	---	---	---	---	---
	I-90.2	I-90.1	8	---	---	---	---	---	---	---	---	---
	I-90.1	12" TRUNKLINE	8	---	---	---	---	---	---	---	---	---
	I-91.2	I-91.1	15	---	---	---	---	---	---	---	---	---
	I-91.1	12" TRUNKLINE	25	---	---	---	---	---	---	---	---	---
	I-92.1	12" TRUNKLINE	16	---	---	---	---	---	---	---	---	---
	TOTALS		5,312	864	411	277	369	88	48	104	8	16

STORM SEWER ITEMS

CATEGORY	STATION	LOCATION	STRUCTURE NO.	611.0201 MANHOLES TYPE 1 EACH	611.0210 MANHOLES TYPE 3 EACH	611.0303 INLETS TYPE 3 EACH	611.0305 INLETS TYPE 8 EACH	**611.0101 CATCH BASIN TYPE 1 EACH	611.0530 MANHOLE COVERS TYPE J EACH	611.0624 INLET COVERS TYPE H EACH	611.0630 INLET COVERS TYPE HM-GJ EACH	611.0633 INLET COVERS TYPE HM-GJ-S EACH	611.0639 INLET COVERS TYPE H-S EACH	611.0642 INLET COVERS TYPE MS EACH	SPV.0060.11 INLET COVERS TYPE H-D EACH	*GRATE ELEVATION FT	*TOP OF STRUCTURE ELEVATION FT	*BOTTOM OF STRUCTURE ELEVATION FT	*DEPTH FT
0010	140+98	47.50' RT	I-1.2	---	---	1	---	---	---	1	---	---	---	---	---	739.68	738.85	733.59	5.26
	141+30	34.40' LT	MH-1	1	---	---	---	---	1	---	---	---	---	---	---	740.79	739.54	734.61	4.93
	141+30	47.50' LT	I-1.1	---	---	1	---	---	---	1	---	---	---	---	---	740.35	739.52	736.89	2.63
	143+65	47.50' RT	I-2.1	---	---	1	---	---	---	1	---	---	---	---	---	745.13	744.30	741.89	2.41
	143+66	34.57' LT	MH-3	1	---	---	---	---	1	---	---	---	---	---	---	745.53	744.28	737.70	6.58
	143+80	47.50' LT	I-3.1	---	---	1	---	---	---	1	---	---	---	---	---	745.42	744.59	741.14	3.45
	143+81	42.54' RT	MH-2	1	---	---	---	---	1	---	---	---	---	---	---	745.83	744.58	741.77	2.81
	144+92	5.50' RT	I-4.2	---	---	1	---	---	---	1	---	---	---	---	---	748.52	747.69	745.50	2.19
	144+92	12.50' RT	I-4.1	---	---	1	---	---	---	1	---	---	---	---	---	748.93	748.10	745.40	2.70
	144+95	42.65' RT	MH-4	1	---	---	---	---	1	---	---	---	---	---	---	748.62	747.37	742.59	4.78
	146+45	43.95' RT	MH-5	1	---	---	---	---	1	---	---	---	---	---	---	752.27	751.02	743.90	7.12
	146+49	47.50' RT	I-5.1	---	---	1	---	---	---	1	---	---	---	---	---	752.12	751.29	748.45	2.84
	146+50	2.46' LT	I-5.2	---	---	1	---	---	---	1	---	---	---	---	---	752.30	751.47	749.13	2.34
	146+50	34.29' LT	MH-6	1	---	---	---	---	1	---	---	---	---	---	---	752.18	750.93	745.30	5.63
	146+50	47.50' LT	I-6.1	---	---	1	---	---	---	1	---	---	---	---	---	751.74	750.91	748.03	2.88
	149+00	5.70' RT	I-7.2	---	---	1	---	---	---	1	---	---	---	---	---	758.60	757.77	755.60	2.17
	149+00	12.50' LT	I-8.2	---	---	1	---	---	---	1	---	---	---	---	---	758.20	757.37	754.70	2.67
	149+05	42.56' RT	MH-7	1	---	---	---	---	1	---	---	---	---	---	---	758.38	757.13	752.05	5.08
	149+09	47.50' RT	I-7.1	---	---	1	---	---	---	1	---	---	---	---	---	758.17	757.34	754.61	2.73
	149+10	34.38' LT	MH-8	1	---	---	---	---	1	---	---	---	---	---	---	757.98	756.73	751.60	5.13
	149+10	47.50' LT	I-8.1	---	---	1	---	---	---	1	---	---	---	---	---	757.54	756.71	753.99	2.72
	151+59	5.50' LT	I-9.2	---	---	1	---	---	---	1	---	---	---	---	---	760.99	760.16	757.96	2.20
	151+59	12.50' LT	I-10.2	---	---	1	---	---	---	1	---	---	---	---	---	760.64	759.81	757.10	2.71
	151+55	43.93' RT	MH-9	1	---	---	---	---	1	---	---	---	---	---	---	760.74	759.49	755.30	4.19
	151+58	47.50' RT	I-9.1	---	---	1	---	---	---	1	---	---	---	---	---	760.51	759.68	756.89	2.79
	151+60	34.21' LT	MH-10	1	---	---	---	---	1	---	---	---	---	---	---	760.51	759.26	754.07	5.19
	151+60	47.50' LT	I-10.1	---	---	1	---	---	---	1	---	---	---	---	---	760.11	759.28	756.44	2.84
	153+51	34.40' LT	MH-11	1	---	---	---	---	1	---	---	---	---	---	---	762.79	761.54	755.10	6.44
	153+62	47.50' LT	I-11.3	---	---	1	---	---	---	1	---	---	---	---	---	762.56	761.73	758.52	3.21
	153+62	47.50' RT	I-12.1	---	---	1	---	---	---	1	---	---	---	---	---	762.58	761.75	758.78	2.97
	153+64	33.39' RT	MH-12	1	---	---	---	---	1	---	---	---	---	---	---	762.96	761.71	757.60	4.11
	153+70	12.50' RT	I-12.2	---	---	1	---	---	---	1	---	---	---	---	---	763.06	762.23	759.84	2.39
	153+70	5.50' RT	I-12.3	---	---	1	---	---	---	1	---	---	---	---	---	762.93	762.10	759.90	2.20
	154+91	3.17' RT	I-13.1	---	---	1	---	---	---	1	---	---	---	---	---	764.69	763.86	760.93	2.93
	154+91	33.51' RT	MH-13	1	---	---	---	---	1	---	---	---	---	---	---	764.41	763.16	758.10	5.06
	158+49	47.50' RT	I-14.2	---	---	1	---	---	---	1	---	---	---	---	---	764.03	763.20	760.44	2.76
	158+50	47.50'LT	I-14.1	---	---	1	---	---	---	1	---	---	---	---	---	764.20	763.37	760.70	2.67
	158+50	34.44' LT	MH-14B	1	---	---	---	---	1	---	---	---	---	---	---	764.64	763.39	757.91	5.48
	158+50	33.08' RT	MH-14	1	---	---	---	---	1	---	---	---	---	---	---	764.49	763.24	759.05	4.19
	160+00	12.50' LT	I-14.3	---	---	1	---	---	---	---	---	---	1	---	---	763.13	762.30	757.32	4.98
	160+05	1.50' RT	I-14.4	---	---	1	---	---	---	---	---	---	1	---	---	762.79	761.96	757.25	4.71
	160+37	47.50' RT	I-14.5	---	---	1	---	---	---	---	---	---	1	---	---	762.34	761.51	758.80	2.71
	160+28	34.00' RT	MH-14D	1	---	---	---	---	1	---	---	---	---	---	---	762.80	761.55	757.07	4.48
	160+41	47.50' LT	I-14.6	---	---	1	---	---	---	---	---	---	1	---	---	762.37	761.54	758.90	2.64
	160+50	34.49' LT	MH-14C	1	---	---	---	---	1	---	---	---	---	---	---	762.82	761.57	756.13	5.44
	161+27	1.50' LT	I-14.7	---	---	1	---	---	---	1	---	---	---	---	---	763.29	762.46	760.25	2.21
	161+30	34.00' RT	MH-14E	1	---	---	---	---	1	---	---	---	---	---	---	763.20	761.95	756.75	5.20
	161+30	12.50' RT	I-14.8	---	---	1	---	---	---	1	---	---	---	---	---	763.41	762.58	760.13	2.45
	162+94	34.00' RT	MH-16	1	---	---	---	---	1	---	---	---	---	---	---	763.38	762.13	755.94	6.19
	163+00	47.50' RT	I-16.1	---	---	1	---	---	---	1	---	---	---	---	---	762.91	762.08	759.40	2.68
	163+00	47.50' LT	I-15.1	---	---	1	---	---	---	1	---	---	---	---	---	762.91	762.08	758.68	3.40
	163+31	34.50' LT	MH-15	1	---	---	---	---	1	---	---	---	---	---	---	763.26	762.01	754.70	7.31
	165+52	34.00' RT	MH-17B	---	1	---	---	---	1	---	---	---	---	---	---	762.59	761.34	753.50	7.84
	165+84	47.50' RT	I-17.4	---	---	1	---	---	---	---	---	---	1	---	---	762.06	761.23	754.25	6.98
	165+94	47.50' LT	I-17.1	---	---	1	---	---	---	---	---	---	1	---	---	762.05	761.22	758.50	2.72
	165+94	34.56' LT	MH-17	1	---	---	---	---	1	---	---	---	---	---	---	762.49	761.24	756.19	5.05
	165+94	12.50' LT	I-17.2	---	---	1	---	---	---	---	---	---	1	---	---	762.71	761.88	756.30	5.58
	165+94	3.69' RT	I-17.3	---	---	1	---	---	---	---	---	---	1	---	---	762.62	761.79	756.38	5.41
	168+05	47.50' LT	I-18.1	---	---	1	---	---	---	1	---	---	---	---	---	763.83	763.00	759.80	3.20
	168+10	33.73' RT	MH-19	1	---	---	---	---	1	---	---	---	---	---	---	764.36	763.11	758.95	4.16

CONT. ON NEXT PAGE

STORM SEWER ITEMS (CONT.)

CATEGORY	STATION	LOCATION	STRUCTURE NO.	611.0201 MANHOLES TYPE 1 EACH	611.0210 MANHOLES TYPE 3 EACH	611.0303 INLETS TYPE 3 EACH	611.0305 INLETS TYPE 8 EACH	**611.0101 CATCH BASIN TYPE 1 EACH	611.0530 MANHOLE COVERS TYPE J EACH	611.0624 INLET COVERS TYPE H EACH	611.0630 INLET COVERS TYPE HM-GJ EACH	611.0633 INLET COVERS TYPE HM-GJ-S EACH	611.0639 INLET COVERS TYPE H-S EACH	611.0642 INLET COVER TYPE MS EACH	SPV.0060.11 INLET COVERS TYPE H-D EACH	*GRATE ELEVATION FT	*TOP OF STRUCTURE ELEVATION FT	*BOTTOM OF STRUCTURE ELEVATION FT	*DEPTH FT
0010	168+10	47.50' RT	I-19.1	---	---	1	---	---	---	1	---	---	---	---	---	763.90	763.07	760.20	2.87
	168+10	57.00' LT	I-18.2	---	---	---	1	---	---	---	---	---	---	1	---	763.85	763.85	760.00	3.85
	168+11	34.27' LT	MH-18	1	---	---	---	---	1	---	---	---	---	---	---	764.35	763.10	756.45	6.65
	168+38	1.50' LT	I-19.2	---	---	1	---	---	---	1	---	---	---	---	---	764.79	763.96	761.76	2.20
	168+40	11.37' RT	I-19.3	---	---	1	---	---	---	1	---	---	---	---	---	764.92	764.09	761.64	2.45
	170+55	47.50' LT	I-20.1	---	---	1	---	---	---	1	---	---	---	---	---	766.24	765.41	762.85	2.56
	170+55	34.35' LT	MH-20	1	---	---	---	---	1	---	---	---	---	---	---	766.68	765.43	758.95	6.48
	170+55	12.50' LT	I-20.2	---	---	1	---	---	---	1	---	---	---	---	---	766.90	766.07	762.90	3.17
	170+55	12.50' RT	I-21.1	---	---	1	---	---	---	1	---	---	---	---	---	766.90	766.07	762.90	3.17
	170+55	33.19' RT	MH-21	1	---	---	---	---	1	---	---	---	---	---	---	766.71	765.46	761.01	4.45
	170+65	47.50' RT	I-21.2	---	---	1	---	---	---	1	---	---	---	---	---	766.28	765.45	762.25	3.20
	11+29 'L'	16.30' LT	I-21B.3	---	---	1	---	---	---	1	---	---	---	---	---	766.53	765.70	763.00	2.70
	8+63 'F'	12.50' RT	I-21B.1	---	---	1	---	---	---	1	---	---	---	---	---	766.63	765.80	762.63	3.17
	9+65 'F'	12.50' RT	I-21B.2	---	---	1	---	---	---	1	---	---	---	---	---	766.37	765.54	762.80	2.74
	172+80	34.04' LT	MH-21B	1	---	---	---	---	1	---	---	---	---	---	---	767.61	766.36	759.51	6.85
	173+76	34.32' LT	MH-21C	1	---	---	---	---	1	---	---	---	---	---	---	767.67	766.84	759.99	6.85
	176+89	47.50' LT	I-22.1	---	---	1	---	---	---	1	---	---	---	---	---	765.68	764.85	761.66	3.19
	176+90	34.09' LT	MH-22	1	---	---	---	---	1	---	---	---	---	---	---	766.11	764.86	759.00	5.86
	176+91	47.50' RT	I-23.1	---	---	1	---	---	---	1	---	---	---	---	---	765.27	764.44	761.24	3.20
	176+99	5.42' LT	I-23.2	---	---	1	---	---	---	1	---	---	---	---	---	765.66	764.83	759.80	5.03
	177+00	35.05' RT	MH-23	1	---	---	---	---	1	---	---	---	---	---	---	765.59	764.34	757.25	7.09
	178+50	5.50' LT	I-25.1	---	---	1	---	---	---	1	---	---	---	---	---	763.74	762.91	755.83	7.08
	178+65	12.50' LT	I-24.1	---	---	1	---	---	---	1	---	---	---	---	---	764.04	763.21	760.04	3.17
	178+71	34.47' LT	MH-24	1	---	---	---	---	1	---	---	---	---	---	---	763.97	762.72	754.14	8.58
	178+73	47.50' LT	I-24.2	---	---	1	---	---	---	1	---	---	---	---	---	763.63	762.80	759.28	3.52
	178+73	37.40' RT	MH-25	1	---	---	---	---	1	---	---	---	---	---	---	763.60	762.35	754.37	7.98
	178+73	47.50' RT	I-25.2	---	---	1	---	---	---	1	---	---	---	---	---	763.31	762.48	759.35	3.13
	179+36	70.63' LT	MH-26	1	---	---	---	---	1	---	---	---	---	---	---	763.76	762.51	752.79	9.72
	180+02	12.50' LT	I-27.1	---	---	1	---	---	---	---	---	---	1	---	---	763.47	762.64	755.12	7.52
	180+02	5.50' LT	I-27.2	---	---	1	---	---	---	---	---	---	1	---	---	763.31	762.48	755.00	7.48
	180+06	47.50' LT	MH-26B	1	---	---	---	---	---	---	---	---	1	---	---	763.14	761.89	753.54	8.35
	180+06	47.50' RT	I-27.3	---	---	1	---	---	---	---	---	---	1	---	---	762.72	761.89	758.71	3.18
	180+10	37.70' RT	MH-27	1	---	---	---	---	1	---	---	---	---	---	---	762.99	761.74	753.13	8.61
	180+16	5.50' RT	I-27.4	---	---	1	---	---	---	---	---	---	1	---	---	763.27	762.44	754.06	8.38
	180+16	12.50' RT	I-27.5	---	---	1	---	---	---	---	---	---	1	---	---	763.06	762.23	753.67	8.56
	181+79	1.75' RT	I-27.6	---	---	1	---	---	---	1	---	---	---	---	---	764.30	763.47	754.33	9.14
	181+80	38.22' RT	MH-27B	1	---	---	---	---	1	---	---	---	---	---	---	763.91	762.66	753.66	9.00
	185+50	8.66' LT	I-28.1	---	---	1	---	---	---	---	---	---	1	---	---	763.87	763.04	760.84	2.20
	185+68	0.50' RT	I-28.3	---	---	1	---	---	---	---	---	---	1	---	---	763.75	762.92	760.63	2.29
	185+69	47.50' RT	I-28.2	---	---	1	---	---	---	---	---	---	1	---	---	763.20	762.37	759.18	3.19
	185+70	38.92' RT	MH-28	1	---	---	---	---	1	---	---	---	---	---	---	763.55	762.30	754.95	7.35
	185+71	47.50' LT	MH-28B	1	---	---	---	---	---	---	---	---	1	---	---	763.23	762.40	757.00	5.40
	186+65	39.13' RT	MH-30	1	---	---	---	---	1	---	---	---	---	---	---	764.13	762.88	755.30	7.58
	186+78	47.50' RT	I-30.1	---	---	1	---	---	---	1	---	---	---	---	---	763.93	763.10	760.40	2.70
	186+84	12.50' LT	I-29.3	---	---	1	---	---	---	1	---	---	---	---	---	764.71	763.88	757.90	5.98
	186+84	47.50' LT	I-29.2	---	---	1	---	---	---	1	---	---	---	---	---	764.05	763.22	760.00	3.22
	186+84	6.05' RT	MH-29	1	---	---	---	---	1	---	---	---	---	---	---	764.94	763.69	755.68	8.01
	187+06	12.50' RT	I-29.6	---	---	1	---	---	---	1	---	---	---	---	---	765.04	764.21	761.04	3.17
	187+06	5.50' RT	I-29.5	---	---	1	---	---	---	1	---	---	---	---	---	764.87	764.04	758.04	6.00
	189+45	5.60' RT	MH-30B	1	---	---	---	---	1	---	---	---	---	---	---	773.25	772.00	766.30	5.70
	189+46	12.50' RT	I-30.4	---	---	1	---	---	---	1	---	---	---	---	---	772.57	771.74	767.35	4.39
	189+50	47.50' RT	I-30.5	---	---	1	---	---	---	1	---	---	---	---	---	772.07	771.24	768.05	3.19
	189+50	9.74' LT	I-30.2	---	---	1	---	---	---	1	---	---	---	---	---	772.70	771.87	766.87	5.00
	189+50	47.50' LT	I-30.3	---	---	1	---	---	---	1	---	---	---	---	---	772.07	771.24	768.05	3.19
	196+24	47.50'RT	I-30.9	---	---	1	---	---	---	1	---	---	---	---	---	775.83	775.00	771.81	3.19
	196+30	12.50' RT	I-30.8	---	---	1	---	---	---	1	---	---	---	---	---	776.29	775.46	771.11	4.35
	196+25	12.50' LT	I-30.7	---	---	1	---	---	---	1	---	---	---	---	---	776.45	775.62	770.61	5.01
	196+25	47.50' LT	I-30.6	---	---	1	---	---	---	1	---	---	---	---	---	775.79	774.96	771.77	3.19
	196+30	6.37' RT	MH-30C	1	---	---	---	---	1	---	---	---	---	---	---	776.96	775.71	770.04	5.67
	199+25	47.50' RT	I-30.13	---	---	1	---	---	---	1	---	---	---	---	---	763.87	763.04	759.85	3.19

CONT. ON NEXT PAGE

STORM SEWER ITEMS (CONT.)

CATEGORY	STATION	LOCATION	STRUCTURE NO.	611.0201 MANHOLES TYPE 1 EACH	611.0210 MANHOLES TYPE 3 EACH	611.0303 INLETS TYPE 3 EACH	611.0305 INLETS TYPE 8 EACH	**611.0101 CATCH BASIN TYPE 1 EACH	611.0530 MANHOLE COVERS TYPE J EACH	611.0624 INLET COVERS TYPE H EACH	611.0630 INLET COVERS TYPE HM-GJ EACH	611.0633 INLET COVERS TYPE HM-GJ-S EACH	611.0639 INLET COVERS TYPE H-S EACH	611.0642 INLET COVER TYPE MS EACH	SPV.0060.11 INLET COVERS TYPE H-D EACH	*GRATE ELEVATION FT	*TOP OF STRUCTURE ELEVATION FT	*BOTTOM OF STRUCTURE ELEVATION FT	*DEPTH FT
0010	199+28	12.50' RT	I-30.12	---	---	1	---	---	---	1	---	---	---	---	---	764.41	763.58	759.15	4.43
	199+25	12.50' LT	I-30.11	---	---	1	---	---	---	1	---	---	---	---	---	764.53	763.70	758.78	4.92
	199+25	47.50' LT	I-30.10	---	---	1	---	---	---	1	---	---	---	---	---	763.87	763.04	759.85	3.19
	199+30	6.18' RT	MH-30D	1	---	---	---	---	1	---	---	---	---	---	---	765.02	763.77	758.15	5.62
	202+08	1.50' RT	I-31.1	---	---	1	---	---	---	1	---	---	---	---	---	753.33	752.50	747.00	5.50
	202+08	12.50' LT	I-31.2	---	---	1	---	---	---	1	---	---	---	---	---	753.39	752.56	746.78	5.78
	202+24	47.50' LT	I-31.3	---	---	1	---	---	---	1	---	---	---	---	---	752.19	751.36	748.16	3.20
	202+25	34.29' LT	MH-31	---	1	---	---	---	1	---	---	---	---	---	---	752.60	751.35	741.45	9.90
	202+27	47.50' RT	I-32.1	---	---	1	---	---	---	1	---	---	---	---	---	752.13	751.30	748.00	3.30
	202+67	34.48' RT	MH-32	1	---	---	---	---	1	---	---	---	---	---	---	751.43	750.18	742.80	7.38
	204+92	47.50' RT	I-32.3	---	---	1	---	---	---	1	---	---	---	---	---	748.20	747.37	744.70	2.67
	205+00	34.70' RT	MH-32B	1	---	---	---	---	1	---	---	---	---	---	---	748.58	747.33	741.16	6.17
	205+25	5.50' LT	I-33.2	---	---	1	---	---	---	1	---	---	---	---	---	748.49	747.66	745.45	2.21
	205+25	12.50' LT	I-33.1	---	---	1	---	---	---	1	---	---	---	---	---	748.53	747.70	745.57	2.13
	205+50	34.73 RT	MH-33	1	---	---	---	---	1	---	---	---	---	---	---	748.73	747.48	740.45	7.03
	205+44	5.50' RT	I-33.3	---	---	1	---	---	---	1	---	---	---	---	---	748.52	747.69	743.97	3.72
	205+40	47.50' LT	I-32.2	---	---	1	---	---	---	1	---	---	---	---	---	747.81	746.98	743.45	3.53
	11+33 'D'	22.93' RT	I-33.5	---	---	1	---	---	---	1	---	---	---	---	---	747.41	746.58	741.31	5.27
	11+37 'D'	7.59' RT	MH-34B	---	1	---	---	---	1	---	---	---	---	---	---	747.81	746.56	740.93	5.63
	206+09	74.34' LT	MH-34	1	---	---	---	---	1	---	---	---	---	---	---	748.05	746.80	741.86	4.94
	206+50	50.30' LT	I-34.1	---	---	1	---	---	---	---	1	---	---	---	---	746.83	746.00	743.80	2.20
	206+47	35.01' LT	MH-35	1	---	---	---	---	1	---	---	---	---	---	---	748.17	746.92	741.40	5.52
	206+70	5.30' LT	I-35.2	---	---	1	---	---	---	---	1	---	---	---	---	747.89	747.06	744.10	2.96
	206+70	12.70' LT	I-35.1	---	---	1	---	---	---	---	1	---	---	---	---	747.94	747.11	743.98	3.13
	207+74	50.30' LT	I-36.1	---	---	1	---	---	---	---	1	---	---	---	---	746.33	745.50	742.28	3.22
	207+80	34.95' LT	MH-36	1	---	---	---	---	1	---	---	---	---	---	---	746.96	745.71	740.95	4.76
	208+99	40.45' LT	MH-37	1	---	---	---	---	1	---	---	---	---	---	---	746.29	745.04	739.78	5.26
	209+00	8.53' LT	I-37.1	---	---	1	---	---	---	---	1	---	---	---	---	746.95	746.12	742.56	3.56
	209+00	12.70' RT	I-37.2	---	---	1	---	---	---	---	1	---	---	---	---	747.04	746.21	743.04	3.17
	210+74	50.30' LT	I-38.1	---	---	1	---	---	---	---	1	---	---	---	---	745.09	744.26	741.04	3.22
	210+82	34.50' LT	MH-38	1	---	---	---	---	1	---	---	---	---	---	---	745.74	744.49	738.95	5.54
	212+21	12.70' RT	I-39.1	---	---	1	---	---	---	---	1	---	---	---	---	745.65	744.82	741.78	3.04
	212+23	37.48' LT	MH-39B	1	---	---	---	---	1	---	---	---	---	---	---	744.81	743.56	738.24	5.32
	212+25	12.70' LT	I-39.2	---	---	1	---	---	---	---	1	---	---	---	---	745.40	744.57	741.30	3.27
	212+47	50.30' RT	I-39.4	---	---	1	---	---	---	---	1	---	---	---	---	746.67	745.84	742.72	3.12
	212+79	50.30' LT	I-39.3	---	---	1	---	---	---	---	1	---	---	---	---	744.23	743.40	740.50	2.90
	212+80	35.23' LT	MH-39	1	---	---	---	---	1	---	---	---	---	---	---	744.59	743.34	737.95	5.39
	212+80	84.95' RT	I-40.5	---	---	1	---	---	---	---	1	---	---	---	---	745.87	745.04	741.25	3.79
	213+18	84.24' RT	I-40.4	---	---	1	---	---	---	---	1	---	---	---	---	745.93	745.10	740.47	4.63
	213+58	12.70' RT	I-40.2	---	---	1	---	---	---	---	1	---	---	---	---	744.60	743.77	738.83	4.94
	213+58	5.30' RT	I-40.1	---	---	1	---	---	---	---	1	---	---	---	---	744.47	743.64	738.71	4.93
	213+64	50.30' LT	I-40.3	---	---	1	---	---	---	---	1	---	---	---	---	743.82	742.99	739.79	3.20
	213+65	35.13' LT	MH-40	1	---	---	---	---	1	---	---	---	---	---	---	744.29	743.04	737.63	5.41
	215+00	50.30' RT	I-41.3	---	---	1	---	---	---	---	1	---	---	---	---	742.68	741.85	738.65	3.20
	215+00	12.70' RT	I-41.2	---	---	1	---	---	---	---	1	---	---	---	---	743.39	742.56	737.89	4.67
	215+00	2.70' RT	I-41.1	---	---	1	---	---	---	---	1	---	---	---	---	743.37	742.54	737.69	4.85
	215+00	36.52' LT	MH-41	1	---	---	---	---	1	---	---	---	---	---	---	743.27	742.02	736.75	5.27
	216+22	50.30' LT	I-42.1	---	---	1	---	---	---	---	1	---	---	---	---	741.51	740.68	737.90	2.78
	216+25	35.41' LT	MH-42	1	---	---	---	---	1	---	---	---	---	---	---	741.84	740.59	736.01	4.58
	217+12	35.70' LT	MH-43	1	---	---	---	---	1	---	---	---	---	---	---	741.17	739.92	735.18	4.74
	217+12	12.70' LT	I-43.1	---	---	1	---	---	---	---	1	---	---	---	---	740.53	739.70	735.66	4.04
	217+12	12.70' RT	I-43.2	---	---	1	---	---	---	---	1	---	---	---	---	740.94	740.11	736.14	3.97
	217+13	50.30' RT	I-43.3	---	---	1	---	---	---	---	1	---	---	---	---	740.20	739.37	736.90	2.47
	219+50	33.30' LT	MH-44	1	---	---	---	---	1	---	---	---	---	---	---	736.98	735.73	731.10	4.63
	219+50	12.70' LT	I-44.1	---	---	1	---	---	---	---	1	---	---	---	---	736.16	735.33	732.66	2.67
	220+10	59.72' RT	I-45.1	---	---	1	---	---	---	---	1	---	---	---	---	734.12	733.29	729.28	4.01
	220+19	62.30' RT	MH-45	1	---	---	---	---	1	---	---	---	---	---	---	734.05	732.80	728.63	4.17
	222+51	12.70' LT	I-45.2	---	---	1	---	---	---	---	1	---	---	---	---	729.15	728.32	725.15	3.17
	222+88	73.99' LT	MH-44B	1	---	---	---	---	---	---	1	---	---	---	---	726.13	725.30	719.50	5.80
	225+51	12.70' LT	I-45.6	---	---	1	---	---	---	---	1	---	---	---	---	720.88	720.05	716.88	3.17

CONT. ON NEXT PAGE

STORM SEWER ITEMS (CONT.)

CATEGORY	STATION	LOCATION	STRUCTURE NO.	611.0201 MANHOLES TYPE 1 EACH	611.0210 MANHOLES TYPE 3 EACH	611.0303 INLETS TYPE 3 EACH	611.0305 INLETS TYPE 8 EACH	**611.0101 CATCH BASIN TYPE 1 EACH	611.0530 MANHOLE COVERS TYPE J EACH	611.0624 INLET COVERS TYPE H EACH	611.0630 INLET COVERS TYPE HM-GJ EACH	611.0633 INLET COVERS TYPE HM-GJ-S EACH	611.0639 INLET COVERS TYPE H-S EACH	611.0642 INLET COVER TYPE MS EACH	SPV.0060.11 INLET COVERS TYPE H-D EACH	*GRATE ELEVATION FT	*TOP OF STRUCTURE ELEVATION FT	*BOTTOM OF STRUCTURE ELEVATION FT	*DEPTH FT
0010	225+51	12.70' RT	I-45.7	---	---	1	---	---	---	---	1	---	---	---	---	721.67	720.84	717.34	3.50
	226+27	50.30' RT	I-46.1	---	---	1	---	---	---	---	1	---	---	---	---	718.94	718.11	714.89	3.22
	226+13 'SE'	1.3' RT	I-46.2	---	---	1	---	---	---	---	1	---	---	---	---	713.19	712.36	708.33	4.03
	226+13 'SE'	8.0' LT	MH-46	1	---	---	---	---	1	---	---	---	---	---	---	713.70	712.45	707.60	4.85
	228+49	12.70' LT	I-46.3	---	---	1	---	---	---	---	1	---	---	---	---	714.93	714.10	710.93	3.17
	228+49	12.70' RT	I-46.4	---	---	1	---	---	---	---	1	---	---	---	---	715.22	714.39	710.45	3.94
	229+23	50.30' RT	I-46.5	---	---	1	---	---	---	---	1	---	---	---	---	713.06	712.23	703.02	9.21
	231+24	1.45' RT	MH-47C	1	---	---	---	---	1	---	---	---	---	---	---	713.59	712.34	704.54	7.80
	231+24	12.70' LT	I-47.8	---	---	1	---	---	---	---	1	---	---	---	---	712.59	711.76	707.07	4.69
	231+60	50.30' LT	I-47.9	---	---	1	---	---	---	---	1	---	---	---	---	712.05	711.22	708.11	3.11
	232+00	.17' RT	MH-47	1	---	---	---	---	1	---	---	---	---	---	---	712.93	711.68	706.26	5.42
	232+00	12.70' RT	I-47.1	---	---	1	---	---	---	---	1	---	---	---	---	712.00	711.17	706.50	4.67
	232+00	50.30' RT	I-47.2	---	---	1	---	---	---	---	1	---	---	---	---	711.29	710.46	707.26	3.20
	236+48	28.85' LT	MH-48	1	---	---	---	---	1	---	---	---	---	---	---	707.30	706.05	701.74	4.31
	236+50	50.30' LT	I-48.1	---	---	1	---	---	---	---	1	---	---	---	---	706.65	705.82	702.62	3.20
	236+94	28.02' LT	MH-49	1	---	---	---	---	1	---	---	---	---	---	---	706.40	705.15	700.70	4.45
	236+95	12.70' LT	I-49.1	---	---	1	---	---	---	---	1	---	---	---	---	706.47	705.64	701.39	4.25
	236+97	12.70' RT	I-49.2	---	---	1	---	---	---	---	1	---	---	---	---	706.43	705.60	701.87	3.73
	237+00	50.30' RT	I-49.3	---	---	1	---	---	---	---	1	---	---	---	---	705.65	704.82	702.63	2.19
	239+00	46.78' LT	I-50.1	---	---	1	---	---	---	---	1	---	---	---	---	701.73	700.90	697.72	3.18
	239+00	35.97' LT	MH-50	1	---	---	---	---	1	---	---	---	---	---	---	702.13	700.88	696.70	4.18
	239+19	50.30' RT	I-51.3	---	---	1	---	---	---	---	1	---	---	---	---	702.00	701.17	698.00	3.17
	239+57	35.71' LT	MH-51	1	---	---	---	---	1	---	---	---	---	---	---	701.00	699.75	695.50	4.25
	239+57	12.70' LT	I-51.1	---	---	1	---	---	---	---	1	---	---	---	---	701.24	700.41	696.48	3.93
	239+58	12.70' RT	I-51.2	---	---	1	---	---	---	---	1	---	---	---	---	701.22	700.39	696.96	3.43
	241+98	38.30' LT	I-53.1	---	---	1	---	---	---	---	1	---	---	---	---	695.63	694.80	691.70	3.10
	242+00	35.68' LT	MH-53	1	---	---	---	---	1	---	---	---	---	---	---	695.84	694.59	689.95	4.64
	242+00	12.70' LT	I-53.2	---	---	1	---	---	---	---	1	---	---	---	---	696.38	695.55	691.12	4.43
	242+23	21.78' RT	I-53.3	---	---	1	---	---	---	---	1	---	---	---	---	695.94	695.11	691.94	3.17
	242+23	50.55' RT	I-53.4	---	---	1	---	---	---	---	1	---	---	---	---	696.84	696.01	692.54	3.47
	244+75	67.58' LT	I-54.2	---	---	1	---	---	---	---	1	---	---	---	---	691.75	690.92	687.50	3.42
	245+50	0' RT	I-55.2	---	---	---	1	---	---	---	---	---	---	1	---	693.47	693.47	688.23	5.24
	245+50	19.58' RT	I-55.3	---	---	1	---	---	---	---	1	---	---	---	---	692.42	691.59	688.60	2.99
	245+52	12.70' LT	I-55.1	---	---	1	---	---	---	---	---	1	---	---	---	692.52	691.69	688.00	3.69
	245+52	35.31' LT	MH-55	---	1	---	---	---	1	---	---	---	---	---	---	692.28	691.03	684.12	6.91
	245+90	12.70' LT	I-55.5	---	---	1	---	---	---	---	---	1	---	---	---	692.48	691.65	686.18	5.47
	246+24	32.03' RT	MH-56	1	---	---	---	---	1	---	---	---	---	---	---	692.58	691.33	685.85	5.48
	246+25	12.27' RT	I-56.1	---	---	1	---	---	---	---	---	1	---	---	---	692.34	691.51	688.65	2.86
	246+25	53.19' RT	I-56.2	---	---	1	---	---	---	---	---	1	---	---	---	691.97	691.14	687.46	3.68
	246+50	52.36' RT	I-56.3	---	---	1	---	---	---	---	---	1	---	---	---	692.04	691.21	687.96	3.25
	247+49	33.88' LT	MH-57	---	1	---	---	---	1	---	---	---	---	---	---	692.92	691.67	685.71	5.96
	247+50	47.00' LT	I-57.1	---	---	1	---	---	---	---	1	---	---	---	---	692.49	691.66	688.90	2.76
	248+49	30.30' RT	MH-58	1	---	---	---	---	1	---	---	---	---	---	---	694.17	692.92	687.48	5.44
	223+14 'SE'	8.50' LT	MH-45C	1	---	---	---	---	1	---	---	---	---	---	---	726.30	725.05	720.05	5.00
	223+14 'SE'	1.30' RT	I-45.4	---	---	1	---	---	---	---	1	---	---	---	---	725.79	724.54	720.61	3.93
	225+75 'SW'	26.00' RT	I-45.5	---	---	---	1	---	---	---	---	---	---	1	---	714.99	714.16	710.00	4.16
	225+75 'SW'	19.30' RT	MH-45B	1	---	---	---	---	---	1	---	---	---	---	---	714.94	713.69	708.65	5.04
	229+00 'SE'	29.30' LT	I-46.6	---	---	---	1	---	---	---	---	---	---	1	---	699.43	698.60	693.60	5.00
	229+14 'SE'	7.00' LT	MH-46B	1	---	---	---	---	1	---	---	---	---	---	---	698.35	697.10	692.00	5.10
	229+15 'SE'	1.30' RT	I-46.7	---	---	1	---	---	---	---	1	---	---	---	---	697.86	697.03	693.86	3.17
	244+50 'NW'	1.30' LT	I-54.1	---	---	1	---	---	---	---	1	---	---	---	---	691.83	691.00	688.00	3.00
	245+50 'NW'	1.30' LT	I-55.4	---	---	1	---	---	---	---	---	1	---	---	---	691.46	690.63	687.78	2.85
	248+50	52.50' RT	I-58.1	---	---	1	---	---	---	---	1	---	---	---	---	693.56	692.73	690.50	2.23
	250+56	34.20' LT	MH-59C	---	1	---	---	---	1	---	---	---	---	---	---	697.09	695.84	690.48	5.36
	251+20	34.37' LT	MH-60	---	1	---	---	---	1	---	---	---	---	---	---	697.04	695.79	690.35	5.44
	251+34	48.30' LT	I-60.2	---	---	1	---	---	---	---	1	---	---	---	---	696.74	695.91	693.20	2.71
	251+37	12.70' LT	I-60.3	---	---	1	---	---	---	---	1	---	---	---	---	697.23	696.40	692.27	4.13
	251+37	26.20' RT	I-60.4	---	---	1	---	---	---	---	1	---	---	---	---	697.03	696.20	693.50	2.70
	251+37	51.80' RT	I-59.1	---	---	1	---	---	---	---	1	---	---	---	---	696.56	695.73	693.37	2.36

CONT. ON NEXT PAGE

STORM SEWER ITEMS (CONT.)

CATEGORY	STATION	LOCATION	STRUCTURE NO.	611.0201 MANHOLES TYPE 1 EACH	611.0210 MANHOLES TYPE 3 EACH	611.0303 INLETS TYPE 3 EACH	611.0305 INLETS TYPE 8 EACH	**611.0101 CATCH BASIN TYPE 1 EACH	611.0530 MANHOLE COVERS TYPE J EACH	611.0624 INLET COVERS TYPE H EACH	611.0630 INLET COVERS TYPE HM-GJ EACH	611.0633 INLET COVERS TYPE HM-GJ-S EACH	611.0639 INLET COVERS TYPE H-S EACH	611.0642 INLET COVER TYPE MS EACH	SPV.0060.11 INLET COVERS TYPE H-D EACH	*GRATE ELEVATION FT	*TOP OF STRUCTURE ELEVATION FT	*BOTTOM OF STRUCTURE ELEVATION FT	*DEPTH FT
0010	253+43	30.32' RT	MH-62	1	---	---	---	---	1	---	---	---	---	---	---	699.15	697.90	693.05	4.85
	253+44	34.15' LT	MH-61	---	1	---	---	---	1	---	---	---	---	---	---	699.24	697.99	692.43	5.56
	253+46	40.17' LT	I-61.1	---	---	1	---	---	---	---	1	---	---	---	---	698.95	698.12	694.93	3.19
	253+47	43.40' RT	I-62.1	---	---	1	---	---	---	---	1	---	---	---	---	698.75	697.92	695.70	2.22
	254+31	1.20' RT	I-63.2	---	---	1	---	---	---	---	1	---	---	---	---	699.96	699.13	697.00	2.13
	254+32	12.70' LT	I-63.1	---	---	1	---	---	---	---	1	---	---	---	---	700.39	699.56	695.98	3.58
	254+32	34.29' LT	MH-63	---	1	---	---	---	1	---	---	---	---	---	---	700.17	698.92	693.13	5.79
	255+92	34.02' LT	MH-64	---	1	---	---	---	1	---	---	---	---	---	---	701.85	700.60	694.41	6.19
	255+92	30.18' RT	MH-64B	1	---	---	---	---	1	---	---	---	---	---	---	701.40	700.15	696.23	3.92
	255+93	45.80' RT	I-64.2	---	---	1	---	---	---	---	1	---	---	---	---	701.10	700.27	698.00	2.27
	255+98	38.30' LT	I-64.1	---	---	1	---	---	---	---	---	---	---	---	1	701.65	700.82	697.57	3.25
	257+35	60.00' LT	MH-65	1	---	---	---	---	1	---	---	---	---	---	---	702.76	701.51	696.08	5.43
	257+84	12.70' LT	I-66.1	---	---	1	---	---	---	---	1	---	---	---	---	703.69	702.86	698.49	4.37
	257+84	5.30' LT	I-66.2	---	---	1	---	---	---	---	1	---	---	---	---	703.49	702.66	698.61	4.05
	257+96	34.00' LT	MH-66	1	---	---	---	---	1	---	---	---	---	---	---	703.90	702.65	696.05	6.60
	258+00	43.30' RT	I-68.1	---	---	1	---	---	---	---	1	---	---	---	---	703.00	702.17	699.95	2.22
	258+00	48.30' LT	I-66.3	---	---	1	---	---	---	---	1	---	---	---	---	703.65	702.82	700.10	2.72
	258+15	12.70' RT	I-68.2	---	---	1	---	---	---	---	1	---	---	---	---	703.41	702.58	699.41	3.17
	258+15	5.30' RT	I-68.3	---	---	1	---	---	---	---	1	---	---	---	---	703.67	702.84	699.53	3.31
	258+44	34.16' LT	MH-67	1	---	---	---	---	1	---	---	---	---	---	---	704.29	703.04	696.43	6.61
	258+49	48.30' LT	I-67.1	---	---	1	---	---	---	---	1	---	---	---	---	703.90	703.07	700.50	2.57
	258+00	30.18' RT	MH-68	1	---	---	---	---	1	---	---	---	---	---	---	703.42	702.17	697.90	4.27
	260+94	30.00' RT	MH-69	1	---	---	---	---	1	---	---	---	---	---	---	705.36	704.11	699.51	4.60
	260+94	43.30' RT	I-69.1	---	---	1	---	---	---	---	1	---	---	---	---	704.89	704.06	701.85	2.21
	261+01	3.87' RT	I-70.3	---	---	1	---	---	---	---	1	---	---	---	---	705.44	704.61	699.50	5.11
	261+01	7.04' LT	I-70.2	---	---	1	---	---	---	---	1	---	---	---	---	706.10	705.27	699.30	5.97
	261+01	34.28' LT	MH-70	1	---	---	---	---	1	---	---	---	---	---	---	705.97	704.72	698.24	6.48
	261+02	48.30' LT	I-70.1	---	---	1	---	---	---	---	1	---	---	---	---	705.47	704.64	701.45	3.19
	266+50	30.70' RT	MH-72	1	---	---	---	---	1	---	---	---	---	---	---	704.85	703.60	699.20	4.40
	266+49	43.30' RT	I-72.2	---	---	1	---	---	---	---	1	---	---	---	---	704.42	703.59	701.35	2.24
	266+49	12.70' LT	I-71.2	---	---	1	---	---	---	---	1	---	---	---	---	705.54	704.71	701.54	3.17
	11+06 'N'	22.73' LT	CB-59.6	---	---	---	---	1	---	---	1	---	---	---	---	696.86	696.03	692.98	3.05
	11+09 'N'	50.68' RT	I-59.2	---	---	1	---	---	---	---	1	---	---	---	---	696.13	695.30	692.47	2.83
	11+22 'N'	57.30' LT	I-59.5	---	---	1	---	---	---	---	1	---	---	---	---	696.24	695.41	692.23	3.18
	11+26 'NL'	37.05' LT	I-65.2	---	---	1	---	---	---	---	1	---	---	---	---	703.43	702.60	699.59	3.01
	11+29 'N'	12.00' LT	MH-59B	1	---	---	---	---	1	---	---	---	---	---	---	697.23	695.98	691.20	4.78
	11+29 'N'	1.30' LT	I-59.3	---	---	1	---	---	---	---	1	---	---	---	---	696.79	695.96	691.91	4.05
	11+29 'N'	18.66' LT	CB-59.4	---	---	---	---	1	---	---	1	---	---	---	---	696.54	695.71	691.84	3.87
	11+36 'NL'	37.42' RT	I-65.1	---	---	1	---	---	---	---	1	---	---	---	---	703.50	702.67	698.94	3.73
	266+49	34.26' LT	MH-71	1	---	---	---	---	1	---	---	---	---	---	---	705.27	704.02	699.10	4.92
	266+50	48.30' LT	I-71.1	---	---	1	---	---	---	---	1	---	---	---	---	704.85	704.02	701.20	2.82
	266+50	12.70' RT	I-72.1	---	---	1	---	---	---	---	1	---	---	---	---	704.99	704.16	700.99	3.17
	268+99	48.30' LT	I-72.3	---	---	1	---	---	---	---	---	1	---	---	---	703.91	703.08	697.22	5.86
	269+04	48.30' LT	I-72.4	---	---	1	---	---	---	---	---	1	---	---	---	703.91	703.08	697.30	5.78
	269+04	12.70' LT	I-72.5	---	---	1	---	---	---	---	---	1	---	---	---	704.59	703.76	697.08	6.68
	269+05	43.30' RT	I-72.7	---	---	1	---	---	---	---	---	1	---	---	---	703.42	702.59	699.85	2.74
	269+15	1.70' RT	I-72.6	---	---	1	---	---	---	---	---	1	---	---	---	703.94	703.11	700.90	2.21
	269+15	43.30' RT	I-72.8	---	---	1	---	---	---	---	---	1	---	---	---	703.42	702.59	700.06	2.53
	270+55	12.70' LT	I-74.4	---	---	1	---	---	---	---	1	---	---	---	---	705.26	704.43	699.14	5.29
	270+55	12.70' RT	I-74.3	---	---	1	---	---	---	---	1	---	---	---	---	704.70	703.87	699.02	4.85
	270+55	30.43' RT	MH-74B	1	---	---	---	---	1	---	---	---	---	---	---	704.55	703.30	698.93	4.37
	271+50	34.91' LT	MH-73	1	---	---	---	---	1	---	---	---	---	---	---	705.93	704.68	700.85	3.83
	271+50	12.70' LT	I-73.1	---	---	1	---	---	---	---	1	---	---	---	---	705.92	705.09	701.31	3.78
	271+50	30.08' RT	MH-74	1	---	---	---	---	1	---	---	---	---	---	---	705.16	703.91	699.42	4.49
	271+50	43.30' RT	I-74.1	---	---	1	---	---	---	---	1	---	---	---	---	704.71	703.88	701.68	2.20
	271+54	6.40' RT	I-74.2	---	---	1	---	---	---	---	1	---	---	---	---	705.28	704.45	701.70	2.75
	274+05	5.30' LT	I-75.3	---	---	1	---	---	---	---	1	---	---	---	---	706.23	705.40	703.17	2.23
	274+23	12.70' LT	I-75.4	---	---	1	---	---	---	---	1	---	---	---	---	707.02	706.19	702.79	3.40
	274+34	31.00' LT	MH-75B	1	---	---	---	---	1	---	---	---	---	---	---	706.68	705.43	702.25	3.18
	274+99	35.20' LT	MH-75C	1	---	---	---	---	1	---	---	---	---	---	---	706.72	705.47	701.85	3.62
	275+02	73.39' LT	I-75.1	---	---	1	---	---	---	---	1	---	---	---	---	707.54	706.71	702.92	3.79
	274+34	48.30' LT	I-75.5	---	---	1	---	---	---	---	1	---	---	---	---	707.99	707.16	703.00	4.16

* FOR INFORMATION ONLY

** REQUIRES PRECAST REINFORCED CONCRETE FLAT SLAB TOP WITH 2'x3' OPENING

CONT. ON NEXT PAGE

STORM SEWER ITEMS (CONT.)

CATEGORY	STATION	LOCATION	STRUCTURE NO.	611.0201 MANHOLES TYPE 1 EACH	611.0210 MANHOLES TYPE 3 EACH	611.0303 INLETS TYPE 3 EACH	611.0305 INLETS TYPE 8 EACH	**611.0101 CATCH BASIN TYPE 1 EACH	611.0530 MANHOLE COVERS TYPE J EACH	611.0624 INLET COVERS TYPE H EACH	611.0630 INLET COVERS TYPE HM-GJ EACH	611.0633 INLET COVERS TYPE HM-GJ-S EACH	611.0639 INLET COVERS TYPE H-S EACH	611.0642 INLET COVER TYPE MS EACH	SPV.0060.11 INLET COVERS TYPE H-D EACH	*GRATE ELEVATION FT	*TOP OF STRUCTURE ELEVATION FT	*BOTTOM OF STRUCTURE ELEVATION FT	*DEPTH FT
0010	276+49	12.70' RT	I-76.1	---	---	1	---	---	---	---	1	---	---	---	---	704.29	703.46	700.30	3.16
	276+49	31.79' RT	MH-76	1	---	---	---	---	1	---	---	---	---	---	---	704.12	702.87	698.60	4.27
	276+49	48.30' LT	I-77.1	---	---	1	---	---	---	---	1	---	---	---	---	704.31	703.48	700.80	2.68
	276+50	12.70' LT	I-77.2	---	---	1	---	---	---	---	1	---	---	---	---	704.98	704.15	700.98	3.17
	276+50	43.50' RT	I-76.2	---	---	1	---	---	---	---	1	---	---	---	---	703.71	702.88	699.71	3.17
	276+51	34.35' LT	MH-77	---	1	---	---	---	1	---	---	---	---	---	---	704.77	703.52	698.62	4.90
	278+99	48.30' LT	I-78.1	---	---	1	---	---	---	---	1	---	---	---	---	700.31	699.48	696.30	3.18
	279+00	12.70' RT	I-79.2	---	---	1	---	---	---	---	1	---	---	---	---	700.49	699.66	696.49	3.17
	279+00	34.45' RT	MH-79	1	---	---	---	---	1	---	---	---	---	---	---	700.27	699.02	694.78	4.24
	279+00	43.30' RT	I-79.1	---	---	1	---	---	---	---	1	---	---	---	---	699.91	699.08	695.91	3.17
	279+01	31.42' LT	MH-78	1	---	---	---	---	1	---	---	---	---	---	---	700.83	699.58	694.40	5.18
	279+01	12.70' LT	I-78.2	---	---	1	---	---	---	---	1	---	---	---	---	700.96	700.13	696.94	3.19
	234+97 'NE'	1.30' RT	I-81.4	---	---	1	---	---	---	---	1	---	---	---	---	689.09	688.26	684.95	3.31
	235+23 'NE'	1.30' RT	I-81.3	---	---	1	---	---	---	---	1	---	---	---	---	689.12	688.29	685.21	3.08
	237+99 'NE'	35.18' LT	MH-81	1	---	---	---	---	1	---	---	---	---	---	---	692.55	691.30	687.56	3.74
	237+98' NE'	1.30' RT	I-81.1	---	---	1	---	---	---	---	1	---	---	---	---	692.31	691.48	688.53	2.95
	238+00 'NE'	51.22' LT	I-81.2	---	---	---	1	---	---	---	---	---	---	1	---	692.25	692.25	688.13	4.12
	231+96 'SE'	1.30' RT	I-82.1	---	---	1	---	---	---	---	---	1	---	---	---	689.58	688.75	686.31	2.44
	232+27 'SE'	1.30' RT	I-82.2	---	---	1	---	---	---	---	1	---	---	---	---	689.68	688.85	686.00	2.85
	232+27 'SE'	13.10' RT	I-82.3	---	---	---	1	---	---	---	---	---	---	1	---	690.25	690.25	686.24	4.01
	229+54 'SW'	35.47' RT	I-86.2	---	---	1	---	---	---	---	1	---	---	---	---	699.78	698.95	695.36	3.59
	229+55 'SW'	24.15' RT	MH-86	1	---	---	---	---	1	---	---	---	---	---	---	699.96	698.71	694.14	4.57
	229+55 'SW'	1.30' LT	I-86.1	---	---	1	---	---	---	---	1	---	---	---	---	699.72	698.89	696.00	2.89
	229+54 'SW'	42.00' RT	I-86.3	---	---	---	1	---	---	---	---	---	---	1	---	699.88	699.88	695.50	4.38
	234+02 'NW'	44.78' RT	MH-84	1	---	---	---	---	1	---	---	---	---	---	---	689.49	688.24	684.08	4.16
	234+00 'NW'	1.30' LT	I-84.1	---	---	1	---	---	---	---	1	---	---	---	---	689.00	688.17	685.50	2.67
	234+07 'NW1'	1.30' RT	I-84.3	---	---	1	---	---	---	---	1	---	---	---	---	688.99	688.16	684.94	3.22
	234+24 'NW'	1.30' LT	I-84.2	---	---	1	---	---	---	---	1	---	---	---	---	689.07	688.24	685.98	2.26
	233+81.87'NW1'	13.26' RT	I-84.5	---	---	---	1	---	---	---	---	---	---	1	---	689.00	689.00	685.22	3.78
	234+32 'NW1'	1.30' RT	I-84.4	---	---	1	---	---	---	---	1	---	---	---	---	689.05	688.22	685.44	2.78
	237+00 'NW'	1.30' LT	I-83.2	---	---	1	---	---	---	---	1	---	---	---	---	692.42	691.59	687.60	3.99
	236+99 'NW'	8.13' RT	MH-83	1	---	---	---	---	1	---	---	---	---	---	---	692.77	691.52	687.15	4.37
	237+00 'NW'	19.50' RT	I-83.3	---	---	1	---	---	---	---	1	---	---	---	---	692.78	691.95	687.62	4.33
	237+00 'NW'	18.00' LT	I-83.1	---	---	---	1	---	---	---	---	---	---	1	---	692.84	692.84	687.93	4.91
	237+00 'NW'	26.00' RT	I-83.4	---	---	---	1	---	---	---	---	---	---	1	---	692.83	692.83	687.75	5.08
	234+08 'NE1'	23.36' LT	I-90.1	---	---	1	---	---	---	---	1	---	---	---	---	689.44	688.61	682.40	6.21
	234+13 'NE1'	29.50' LT	I-90.2	---	---	---	1	---	---	---	---	---	---	1	---	689.52	689.52	682.56	6.96
	232+20 'SE1'	1.30' LT	I-91.1	---	---	1	---	---	---	---	1	---	---	---	---	689.71	688.88	684.90	3.98
	232+08 'SE1'	10.00' LT	I-91.2	---	---	---	1	---	---	---	---	---	---	1	---	689.61	689.61	685.05	4.56
	232+45.32'SW1'	23.18' RT	I-92.1	---	---	1	---	---	---	---	1	---	---	---	---	690.23	689.40	685.09	4.31
	TOTALS			95	11	221	12	2	102	75	120	13	18	12	1				

* FOR INFORMATION ONLY

** REQUIRES PRECAST REINFORCED CONCRETE FLAT SLAB TOP WITH 2'x3' OPENING

ADJUSTING MANHOLE COVERS

CATEGORY	STATION	LOCATION	611.8110 EACH
0010	141+70	42' RT	1
	153+31	44' RT	1
	155+96	33' RT	1
	156+34	34' RT	1
	156+50	34' LT	1
	159+81	33' RT	1
	165+50	34' LT	1
	166+35	35' RT	1
	168+88	34' RT	1
	172+19	34' RT	1
	172+80	35' RT	1
	173+76	35' RT	1
	174+65	33' LT	1
	177+90	35' RT	1
	179+79	49' RT	1
	182+93	47' LT	1
	183+35	39' RT	1
	186+17	47' LT	1
	186+26	82' LT	1
	202+39	7' RT	1
	205+90	45' RT	1
	205+90	23' LT	1
	228+53 'SW'	18' RT	1
	240+50	36' LT	1
	244+21	6' LT	1
	244+28	80' LT	1
	251+13	31' RT	1
	253+98	35' LT	1
	257+37	34' LT	1
	258+49	30' RT	1
	261+78	35' LT	1
	263+24	34' LT	1
	263+24	34' RT	1
	263+74	34' LT	1
	265+02	34' LT	1
	268+90	35' LT	1
	268+91	31' RT	1
	275+20	51' LT	1
	276+35	51' LT	1
	280+33	34' LT	1
	280+99	34' RT	1
	231+14 'SE'	37' LT	1
	232+45 'SE'	81' LT	1
	232+60 'SE'	8' LT	1
	233+40 'NW'	72' RT	1
	228+53 'SW'	18' RT	1
	232+46'SW1'	12' RT	1
	TOTAL		47

ADJUSTING INLET COVERS

CATEGORY	STATION	LOCATION	611.8115 EACH
0010	264+18	65' LT	1
	280+99	47' LT	1
	281+00	47' RT	1
	283+00	6' RT	1
	233+96'NE1'	14' RT	1
	233+05'SE'	1' RT	1
	232+70'SW1'	1' LT	1
	232+67'NW'	1' LT	1
	TOTAL		8

COVER PLATES TEMPORARY

CATEGORY	STAGE	STATION	STRUCTURE NO.	LOCATION	611.8120.S EACH	REMARKS
0010	STAGE 1	146+50	EXISTING INLET	LT	1	
		151+59	EXISTING INLET	LT	1	
		153+55	EXISTING INLET	RT	1	
		154+92	EXISTING INLET	CL	1	
		173+51	EXISTING INLET	LT	1	
		177+00	EXISTING INLET	CL	1	
		178+70	EXISTING INLET	LT	1	
		181+80	EXISTING INLET	RT	1	
		184+34	EXISTING INLET	LT	1	
		185+79	EXISTING INLET	LT	1	
		205+45	EXISTING INLET	LT	1	
		232+04 'SE'	EXISTING INLET	LT	1	SE RAMP
		234+00 'NE1'	EXISTING INLET	RT	1	NE RAMP
		234+05 'NE1'	EXISTING INLET	LT	1	NE RAMP
		234+12 'NE1'	EXISTING INLET	LT	1	NE RAMP
		283+00	EXISTING INLET	RT	1	
		SUBTOTAL (STAGE 1)			16	
	STAGE 2	144+92	I-4.2	RT	1	
		144+92	I-4.1	RT	1	
		149+00	I-7.2	RT	1	
		153+70	I-12.2	RT	1	
		160+05	I-14.4	RT	1	
		161+30	I-14.8	RT	1	
		168+40	I-19.3	RT	1	
		170+55	I-21.1	RT	1	
		180+16	I-27.5	RT	1	
		231+85 'SW'	EXISTING INLET	RT	1	SW RAMP
		232+11 'SW'	EXISTING INLET	RT	1	SW RAMP
		233+90 'NW'	EXISTING INLET	RT	1	NW RAMP
		SUBTOTAL (STAGE 2)			12	
		TOTAL			28	

FENCE SAFETY

CATEGORY	STATION	LOCATION	616.0700.S LF*	REMARKS
0010	156+40 - 159+25	RT	200	EXIST. BOLLARD PROTECTION
	161+50 - 167+40	LT	590	LANDSCAPE PROTECTION
	164+00 - 166+14	RT	115	EXIST. BOLLARD PROTECTION
	166+14 - 167+60	RT	146	EXIST. BOLLARD REMOVAL AREA
	203+00 - 204+50	RT	85	EXIST. BOLLARD REMOVAL AREA
	258+00 - 261+60	LT	360	LANDSCAPE PROTECTION
	UNDISTRIBUTED		150	
	TOTAL		1,646	

* ADDITIONAL QUANTITIES LISTED ELSEWHERE

BEAM GUARD ITEMS

CATEGORY	STATION - STATION	LOCATION	614.0200 STEEL THRIE BEAM STRUCTURE APPROACH LF	614.0305 STEEL PLATE BEAM GUARD CLASS A LF	614.0370 STEEL PLATE BEAM GUARD ENERGY ABSORBING TERMINAL EACH	SPV.0060.01 MARKER POST FLEXIBLE FOR GUARD RAIL TERMINAL EACH
0010	190+04.00 - 191+62.20	RT	20.7	87.5	1	1
	191+07.20 - 191+90.40	MEDIAN RT	20.7	12.5	1	1
	193+78.00 - 194+61.20	MEDIAN LT	20.7	12.5	1	1
	194+07.00 - 195+65.20	LT	20.7	87.5	1	1
	231+32.50 - 232+15.70	RT	20.7	12.5	1	1
	234+19.30 - 235+02.50	LT	20.7	12.5	1	1
	TOTALS		124.2	225.0	6	6

BEAM GUARD TEMPORARY ITEMS

CATEGORY	STATION - STATION	STAGE	LOCATION	614.0250 STEEL THRIE BEAM STRUCTURE APPROACH TEMPORARY LF	614.0360 STEEL PLATE BEAM GUARD TEMPORARY LF	614.0380 STEEL PLATE BEAM GUARD ENERGY ABSORBING TERMINAL TEMPORARY EACH
0010	191+18.00 - 192+01.20	STAGE 2	B-40-380 (SE)	20.7	12.5	1
	193+66.00 - 194+49.2	STAGE 3	B-40-381 (NW)	20.7	12.5	1
	TOTALS			41.4	25.0	2

MOBILIZATION

CATEGORY	PROJECT	619.1000 EACH
0010	2140-08-73	1
	TOTAL	1

CONCRETE MEDIAN SLOPED NOSE

CATEGORY	STATION	OFFSET	620.0300 SF	REMARKS
0010	143+95	CL	60	
	144+35	9' LT	40	
	144+54	9' RT	40	
	145+64	9' LT	40	
	152+33	9' LT	40	
	152+71	9' RT	40	
	152+66	9' RT	40	
	11+29'CW'	4' LT	45	
	153+33	9' LT	40	
	153+62	9' LT	40	
	153+84	9' LT	40	
	160+26	5' RT	40	
	161+13	5' RT	40	
	167+32	5' LT	40	
	168+15	6' RT	35	
	173+29	9' RT	40	
	173+57	9' LT	40	
	173+89	9' RT	40	
	174+44	9' LT	40	
	174+77	9' RT	40	
	175+01	9' LT	40	
	178+50	8' RT	40	
	178+74	9' LT	40	
	178+92	9' RT	40	
	11+33'B'	5' LT	60	
	12+16'B'	5' RT	60	
	179+89	9' LT	40	
	180+06	9' RT	40	
	183+36	9' LT	40	
	184+39	2' RT	40	
	185+89	4' LT	50	
	186+65	9 LT	40	
	186+97	7' RT	40	
	187+19	9' LT	40	
	202+30	5' LT	40	
	202+72	9' RT	40	
	205+11	9' RT	40	
	205+34	9' LT	40	
	205+67	9' LT	40	
	206+31	9' LT	40	
	206+65	9' RT	40	
	212+60	CL	45	
	213+25	9' LT	40	
	213+50	9' RT	40	
	213+74	9' LT	40	
	220+32	46' LT	100	EXIT RAMP
	224+63	59' RT	40	EXIT RAMP
	230+86'SE'	22' RT	50	EXIT RAMP
	230+75'SW'	22' RT	50	EXIT RAMP
	234+43'NW'	22' RT	50	EXIT RAMP
	237+98'NE'	4' RT	50	EXIT RAMP
	242+31	56' RT	90	EXIT RAMP
	244+64	42' LT	30	EXIT RAMP
	249+86	23' RT	40	
	250+11	9' LT	40	
	250+25	23' RT	40	
	251+00	6' RT	80	
	11+33'N'	8' LT	75	
	256+49	9' RT	40	
	256+75	9' LT	40	
	256+92	9' RT	40	
	256+37	49' RT	5	ISLAND
	256+96	49' RT	10	ISLAND

CONT. ABOVE

CONCRETE MEDIAN SLOPED NOSE (CONT.)

CATEGORY	STATION	OFFSET	620.0300 SF	REMARKS
0010	256+96	66' RT	10	ISLAND
	11+33'NL'	5' LT	60	
	12+68'NL'	4' RT	65	
	257+80	9' LT	40	
	258+05	9' RT	40	
	259+71	9' LT	40	
	263+29	9' RT	40	
	263+52	9' LT	40	
	263+72	9' RT	40	
	264+11	49' LT	75	
	264+46	CL	40	
	269+55	5' LT	40	
	270+32	CL	45	
	274+07	9' RT	30	
	274+30	9' LT	40	
	274+53	10' RT	35	
	275+30	CL	45	
	TOTAL		3,470	

LANDMARK REFERENCE MONUMENTS

CATEGORY	TANGENT STATION	ALIGNMENT STATION	ALIGNMENT OFFSET	621.0100 EACH
0010	209+52.56	209+49.15	29.32	1
	224+47.54	224+24.06	-114.11	1
	242+38.24	242+36.76	16.82	1
	273+48.22	273+48.13	-2.77	1
	282+97.41	282+97.27	4.01	1
	217+15.37 'SW'	217+15.37 'SW'	0.00	1
	223+12.33 'SW'	223+08.80 'SW'	-30.55	1
	232+47.47 'SW'	232+09.76 'SW'	75.58	1
	235+08.01 'SW'	235+08.01 'SW'	0.00	1
	217+15.37 'SE'	217+15.37 'SE'	0.00	1
	225+04.99 'SE'	224+81.28 'SE'	-100.41	1
	232+88.90 'SE'	232+86.98 'SE'	-5.34	1
	231+95.68 'NE'	231+95.68 'NE'	0.00	1
	234+86.07 'NE'	234+58.77 'NE'	-55.30	1
	243+21.64 'NE'	243+21.64 'NE'	0.00	1
	232+84.10 'NW'	232+82.95 'NW'	3.74	1
	235+48.36 'NW'	235+48.24 'NW'	2.53	1
	241+46.70 'NW'	241+43.13 'NW'	26.65	1
	247+46.38 'NW'	247+46.38 'NW'	0.00	1
			TOTAL	19

DUST CONTROL SURFACE TREATMENT

CATEGORY	STAGE	STATION - STATION	LOCATION	623.0200 SY
0010	STAGE 1	140+00 - 153+00	MEDIAN	1,250
		153+00 - 179+50	MEDIAN	2,900
		179+50 - 186+30	MEDIAN	750
		186+30 - 206+00	MEDIAN	150
		206+00 - 233+25	MEDIAN	650
		233+25 - 250+50	MEDIAN	650
		250+50 - 257+50	MEDIAN	0
		257+50 - 274+75	MEDIAN	0
		274+75 - 281+00	MEDIAN	750
		231+96'NE' - 244+89 'NE'	RAMP	1,350
		232+68 'NW' - 247+46 'NW'	RAMP	0
		217+00 'SE' - 233+04 'SE'	RAMP	1,500
		217+15 'SW' - 235+08 'SW'	RAMP	0
		SUBTOTAL (STAGE 1)		9,950

CONT. ABOVE

DUST CONTROL SURFACE TREATMENT (CONT.)

CATEGORY	STAGE	STATION - STATION	LOCATION	623.0200 SY
0010	STAGE 2	140+00 - 153+00	NB	7,050
		153+00 - 179+50	NB	15,150
		179+50 - 186+30	NB	3,400
		186+30 - 206+00	NB	10,100
		206+00 - 233+25	NB	14,650
		233+25 - 250+50	NB	8,450
		250+50 - 257+50	NB	3,750
		257+50 - 274+75	NB	9,150
		274+75 - 281+00	NB	2,400
		231+96'NE' - 244+89 'NE'	RAMP	6,750
		232+68 'NW' - 247+46 'NW'	RAMP	1,000
		217+00 'SE' - 233+04 'SE'	RAMP	3,200
		217+15 'SW' - 235+08 'SW'	RAMP	1,850
		140+00 - 281+00	NB	0
		140+00 - 281+00	NB	0
		140+00 - 281+00	NB	0
		140+00 - 281+00	NB	4,500
		140+00 - 281+00	NB	350
		SUBTOTAL (STAGE 2)		91,750
	STAGE 3	140+00 - 153+00	SB	6,050
		153+00 - 179+50	SB	13,350
		179+50 - 186+30	SB	3,750
		186+30 - 206+00	SB	9,550
		206+00 - 233+25	SB	13,200
		233+25 - 250+50	SB	7,450
		250+50 - 257+50	SB	3,400
		257+50 - 274+75	SB	9,250
		274+75 - 281+00	SB	2,650
		231+96'NE' - 244+89 'NE'	RAMP	0
		232+68 'NW' - 247+46 'NW'	RAMP	3,200
		217+00 'SE' - 233+04 'SE'	RAMP	0
		217+15 'SW' - 235+08 'SW'	RAMP	4,750
		140+00 - 281+00	SB	0
		140+00 - 281+00	SB	0
		140+00 - 281+00	SB	0
		140+00 - 281+00	SB	3,500
		140+00 - 281+00	SB	550
		SUBTOTAL (STAGE 3)		80,650
	STAGE 4	140+00 - 153+00	MEDIAN	200
		153+00 - 179+50	MEDIAN	250
		179+50 - 186+30	MEDIAN	0
		186+30 - 206+00	MEDIAN	300
		206+00 - 233+25	MEDIAN	0
		233+25 - 250+50	MEDIAN	200
		250+50 - 257+50	MEDIAN	150
		257+50 - 274+75	MEDIAN	0
		274+75 - 281+00	MEDIAN	0
		231+96'NE' - 244+89 'NE'	RAMP	0
		232+68 'NW' - 247+46 'NW'	RAMP	0
		217+00 'SE' - 233+04 'SE'	RAMP	0
		217+15 'SW' - 235+08 'SW'	RAMP	0
		140+00 - 281+00	SB	50
		140+00 - 281+00	SB	0
		SUBTOTAL (STAGE 4)		1,150
		TOTAL		183,500

WATER

CATEGORY	STATION -STATION	LOCATION	624.0100 MGAL
0010	140+00 - 281+00	LT/RT	490
	TOTAL		490

FINISHING ITEMS

CATEGORY	STATION - STATION	LOCATION	625.0100 TOPSOIL SY	625.0500 SALVAGED TOPSOIL SY	629.0210 FERTILIZER TYPE B CWT	630.0130 SEEDING MIXTURE NO. 30 LB	630.0200 SEEDING TEMPORARY LB	630.0300 SEEDING BORROW PIT LB	SPV.0120.01 WATER FOR SEEDED AREAS MGAL	(1) 631.1000 SOD LAWN SY	631.0300 SOD WATER MGAL
0010	140+00 - 153+00	LT	860	---	1	15	10	---	19	---	---
	140+00 - 153+00	RT	840	---	1	15	10	---	19	---	---
	145+70 - 150+12	MEDIAN	---	770	1	15	10	---	17	---	---
	139+02 - 143+95	MEDIAN	---	1050	1	20	15	---	24	---	---
	153+00 - 179+50	LT	1950	---	1	35	25	---	44	---	---
	153+00 - 179+50	RT	1400	---	1	25	20	---	31	---	---
	154+68 - 160+22	MEDIAN	---	1020	1	20	15	---	23	---	---
	161+14 - 167+33	MEDIAN	---	1150	1	20	15	---	26	---	---
	168+26 - 172+45	MEDIAN	---	690	1	10	9	---	15	---	---
	179+50 - 186+30	LT	290	---	1	5	4	---	6	---	---
	179+50 - 186+30	RT	300	---	1	5	4	---	7	---	---
	182+52 - 183+28	MEDIAN	---	65	1	1	1	---	1	---	---
	184+43 - 185+88	MEDIAN	---	120	1	2	2	---	3	---	---
	186+30 - 206+00	LT	1050	---	1	20	15	---	24	---	---
	186+30 - 206+00	RT	1,100	---	1	20	15	---	24	---	---
	187+97 - 202+29	MEDIAN	---	2,800	2	50	40	---	63	---	---
	202+76 - 204+66	MEDIAN	---	290	1	5	4	---	7	---	---
	206+00 - 233+25	LT	9,400	---	6	170	130	---	211	---	---
	206+00 - 233+25	RT	8,200	---	5	150	110	---	184	---	---
	207+64 - 212+55	MEDIAN	---	1,050	1	20	15	---	24	---	---
	214+59 - 233+25	MEDIAN	---	4,300	3	80	60	---	96	---	---
	233+25 - 250+50	LT	7,800	---	5	140	110	---	175	---	---
	233+25 - 250+50	RT	8,600	---	5	150	120	---	193	---	---
	233+25 - 247+75	MEDIAN	---	3,950	3	70	55	---	89	---	---
	250+50 - 257+50	LT	400	---	1	7	5	---	9	---	---
	250+50 - 257+50	RT	400	---	1	7	5	---	9	---	---
	251+06 - 254+97	MEDIAN	---	990	1	20	15	---	22	---	---
	257+50 - 274+75	LT	760	---	1	15	10	---	17	---	---
	257+50 - 274+75	RT	1,100	---	1	20	15	---	24	---	---
	259+76 - 261+92	MEDIAN	---	190	1	3	3	---	4	---	---
	264+70 - 269+59	MEDIAN	---	1,000	1	20	15	---	23	---	---
	270+31 - 272+97	MEDIAN	---	440	1	8	6	---	10	---	---
	274+75 - 281+00	LT	450	---	1	8	6	---	10	---	---
	274+75 - 281+00	RT	480	---	1	9	7	---	11	---	---
	275+11 - 284+79	MEDIAN	---	2250	1	40	30	---	50	---	---
	UNDISTRIBUTED		---		5	150	120	830	830	450	10.0
	TOTALS		45,380	22,125	62	1,370	1,051	830	2344	450	10.0

(1) TO BE USED AT ENGINEER'S DISCRETION

MULCHING

CATEGORY	STATION - STATION	LOCATION	627.0200 SY
0010	140+00 - 153+00	LT	430
	140+00 - 153+00	RT	90
	153+00 - 179+50	LT	420
	153+00 - 179+50	RT	350
	179+50 - 186+30	LT	260
	179+50 - 186+30	RT	120
	186+30 - 206+00	LT	1000
	186+30 - 206+00	RT	1200
	206+00 - 233+25	LT	35
	206+00 - 233+25	RT	620
	233+25 - 250+50	LT	910
	233+25 - 250+50	RT	150
	250+50 - 257+50	LT	330
	250+50 - 257+50	RT	180
	257+50 - 274+75	LT	450
	257+50 - 274+75	RT	530
	274+75 - 281+00	LT	5
	274+75 - 281+00	RT	---
	UNDISTRIBUTED		275
	TOTAL		7,355

SILT FENCE ITEMS

CATEGORY	STATION - STATION	LOCATION	628.1504 SILT FENCE LF	628.1520 SILT FENCE MAINTENANCE LF
0010	142+50 - 146+95	LT	455	910
	147+30 - 150+00	LT	290	580
	186+50 - 191+60	RT	510	1020
	186+60 - 192+45	LT	585	1170
	193+25 - 202+50	RT	925	1850
	194+05 - 202+50	LT	845	1690
	206+40 - 209+15	RT	285	570
	243+75 - 245+70	RT	195	390
	261+00 - 272+50	RT	1150	2300
	UNDISTRIBUTED		300	600
	TOTAL		5,540	11,080

MOBILIZATIONS EROSION CONTROL

CATEGORY	STAGE	STATION - STATION	628.1905 EACH
0010	STAGE 1	140+00.00 - 281+00.00	1
	STAGE2	140+00.00 - 281+00.00	1
	STAGE 3	140+00.00 - 281+00.00	1
	STAGE 4	140+00.00 - 281+00.00	1
	TOTAL		4

MOBILIZATIONS EMERGENCY EROSION CONTROL

CATEGORY	STAGE	STATION - STATION	628.1910 EACH
0010	STAGE 1	140+00.00 - 281+00.00	1
	STAGE 2	140+00.00 - 281+00.00	1
	STAGE 3	140+00.00 - 281+00.00	1
	STAGE 4	140+00.00 - 281+00.00	1
	TOTAL		4

EROSION MAT ITEMS

CATEGORY	STATION - STATION	LOCATION	628.2006 URBAN CLASS I TYPE A SY
0010	140+00 - 153+00	LT	860
	140+00 - 153+00	MEDIAN	1,800
	140+00 - 153+00	RT	840
	153+00 - 179+50	LT	1,950
	153+00 - 179+50	MEDIAN	2,850
	153+00 - 179+50	RT	1,400
	179+50 - 186+30	LT	290
	179+50 - 186+30	MEDIAN	180
	179+50 - 186+30	RT	300
	186+30 - 206+00	LT	1,050
	186+30 - 206+00	MEDIAN	3,100
	186+30 - 206+00	RT	1,100
	206+00 - 233+25	LT	1,200
	206+00 - 233+25	MEDIAN	5,350
	206+00 - 233+25	RT	720
	233+25 - 250+50	LT	---
	233+25 - 250+50	MEDIAN	3,950
	233+25 - 250+50	RT	400
	250+50 - 257+50	LT	400
	250+50 - 257+50	MEDIAN	990
	250+50 - 257+50	RT	400
	257+50 - 274+75	LT	760
	257+50 - 274+75	MEDIAN	1,650
	257+50 - 274+75	RT	1,100
	274+75 - 281+00	LT	450
	274+75 - 281+00	MEDIAN	2,250
	274+75 - 281+00	RT	480
	SE RAMP	LT/RT	7,450
	SW RAMP	LT/RT	8,200
	NW RAMP	LT/RT	7,800
	NE RAMP	LT/RT	8,200
	UNDISTRIBUTED		6,500
	TOTAL		73,970

INLET PROTECTION

CATEGORY	STAGE	STATION	LOCATION	628.7005 TYPE A EACH	628.7010 TYPE B EACH	628.7015 TYPE C EACH	628.7020 TYPE D EACH
0010	STAGE 1	EXISTING INLETS	LT/RT	---	---	170	---
	STAGE 2	140+98	RT	1	---	1	---
		143+81	RT	1	---	1	---
		146+49	RT	1	---	1	---
		149+09	RT	1	---	1	---
		151+58	RT	1	---	1	---
		153+62	RT	1	---	1	---
		158+49	RT	1	---	1	---
		160+37	RT	1	---	---	1
		162+94	RT	1	---	1	---
		165+84	RT	1	---	---	1
		168+10	RT	1	---	1	---
		170+65	RT	1	---	1	---
		176+91	RT	1	---	1	---
		178+73	RT	1	---	1	---
		108+06	RT	1	---	---	1

CONT. ABOVE

INLET PROTECTION (CONT.)

CATEGORY	STAGE	STATION	LOCATION	628.7005 TYPE A EACH	628.7010 TYPE B EACH	628.7015 TYPE C EACH	628.7020 TYPE D EACH
0010	STAGE 2 (CONT.)	185+69	RT	1	---	---	1
		186+78	RT	1	---	1	---
		187+06	RT	2	---	2	---
		189+50	RT	1	---	1	---
		189+49	RT	1	---	1	---
		196+24	RT	1	---	1	---
		196+25	RT	1	---	1	---
		199+25	RT	2	---	2	---
		202+27	RT	1	---	1	---
		204+92	RT	1	---	1	---
		209+00	RT	1	---	1	---
		212+47	RT	1	---	1	---
		212+80	RT	1	---	1	---
		213+18	RT	1	---	1	---
		213+58	RT	2	---	2	---
		215+00	RT	2	---	2	---
		217+13	RT	2	---	2	---
		220+10	RT	1	---	1	---
		223+14' SE'	RT	1	---	1	---
		223+06 'SW'	RT	1	---	1	---
		225+51	RT	1	---	1	---
		226+27	RT	1	---	1	---
		226+13 'SE'	RT	1	---	1	---
		228+49	RT	1	---	1	---
		229+23	RT	1	---	1	---
		232+00	RT	2	---	2	---
		237+00	RT	2	---	2	---
		239+19	RT	1	---	1	---
		239+58	RT	1	---	1	---
		242+23	RT	2	---	2	---
		245+50	RT	1	---	1	---
		245+50	RT	1	1	---	---
		246+25	RT	2	---	---	2
		246+50	RT	1	---	---	1
		248+50	RT	1	---	1	---
		251+37	RT	2	---	2	---
		253+47	RT	1	---	1	---
		254+31	RT	1	---	1	---
		255+93	RT	1	---	1	---
		258+00	RT	1	---	1	---
		260+94	RT	1	---	1	---
		261+01	RT	1	---	1	---
		266+46	RT	1	---	1	---
		266+50	LT/RT	2	---	2	---
		269+05	LT/RT	2	---	---	2
		269+15	RT	2	---	---	2
		270+55	LT/RT	2	---	2	---
		271+50	LT/RT	2	---	2	---
		271+54	RT	1	---	1	---
		274+05	RT	1	---	1	---
		274+23	LT	1	---	1	---
		276+50	RT	2	---	2	---
		279+00	LT/RT	3	---	3	---
		281+00	RT	1	---	1	---
		232+04 'SE'	LT	1	1	---	---
		232+16 'SE'	LT	1	---	1	---
		232+18 'SE'	LT	1	---	1	---
		232+26 'SE'	RT	1	1	---	---
		232+27 'SE'	LT	1	---	1	---
		234+07 'NE'	LT	1	---	1	---
		234+13 'NE'	LT	1	1	---	---
		234+97 'NE'	RT	1	---	1	---
		235+23 'NE'	RT	1	---	1	---
		237+98 'NE'	RT	1	---	1	---
		SUBTOTAL (STAGE 2)		91	4	78	9

CONT. ON NEXT PAGE

INLET PROTECTION (CONT.)

CATEGORY	STAGE	STATION	LOCATION	628.7005 TYPE A EACH	628.7010 TYPE B EACH	628.7015 TYPE C EACH	628.7020 TYPE D EACH
0010	STAGE 3	141+30	LT	1	---	1	---
		143+80	LT	1	---	1	---
		146+50	LT	1	---	1	---
		149+00	LT	1	---	1	---
		149+10	LT	1	---	1	---
		151+50	LT	1	---	1	---
		151+60	LT	1	---	1	---
		153+36	LT	1	---	1	---
		153+62	LT	1	---	1	---
		158+50	LT	1	---	1	---
		160+00	LT	1	---	---	1
		160+41	LT	1	---	---	1
		161+27	LT	1	---	1	---
		163+00	LT	1	---	1	---
		165+94	LT	2	---	---	2
		168+05	LT	1	---	1	---
		168+10	LT	1	1	---	---
		170+55	LT	2	---	2	---
		8+63 'F'	RT	1	---	1	---
		9+67'F'	RT	1	---	1	---
		11+29 'L'	LT	1	---	1	---
		176+89	LT	1	---	1	---
		178+73	LT	1	---	1	---
		180+02	LT	1	---	---	1
		180+06	LT	1	---	---	1
		185+71	LT	1	---	---	1
		186+80	LT	1	---	1	---
		186+80	LT	1	---	1	---
		186+80	LT	1	---	1	---
		189+50	LT	2	---	2	---
		196+25	LT	2	---	2	---
		199+25	LT	2	---	2	---
		202+08	LT	1	---	1	---
		202+08	RT	1	---	1	---
		202+24	LT	1	---	1	---
		205+25	LT	2	---	2	---
		205+40	LT	1	---	1	---
		11+25 'D'	RT	1	---	1	---
		206+70	LT	2	---	2	---
		207+74	LT	1	---	1	---
		209+00	LT	1	---	1	---
		210+74	LT	1	---	1	---
		212+25	LT	1	---	1	---
		212+79	LT	1	---	1	---
		213+64	LT	1	---	1	---
		215+00	RT	1	---	1	---
		216+22	LT	1	---	1	---
		217+12	LT	1	---	1	---
		225+75 'SW'	RT	1	---	1	---
		225+75 'SW'	RT	1	1	---	---
		225+51	LT	1	---	1	---
		228+49	LT	1	---	1	---
		231+24	LT	1	---	1	---
		231+60	LT	1	---	1	---
		236+50	LT	1	---	1	---
		236+94	LT	1	---	1	---
		239+00	LT	1	---	1	---
		244+50 'NW'	LT	1	---	1	---
		244+75 'NW'	LT	1	---	1	---
		245+50 'NW'	LT	1	---	---	1
		245+52	LT	1	---	---	1

CONT. ABOVE

INLET PROTECTION (CONT.)

CATEGORY	STAGE	STATION	LOCATION	628.7005 TYPE A EACH	628.7010 TYPE B EACH	628.7015 TYPE C EACH	628.7020 TYPE D EACH
0010	STAGE 3 (CONT.)	247+50	LT	1	---	1	---
		11+29 'N'	LT	2	---	2	---
		11+21 'N'	RT	1	---	1	---
		11+08 'N'	RT	1	---	1	---
		11+06 'N'	LT	1	---	1	---
		11+24 'D'	LT	1	---	1	---
		251+34	LT	1	---	1	---
		251+37	LT	1	---	1	---
		253+46	LT	1	---	1	---
		254+32	LT	1	---	1	---
		255+98	LT	1	---	1	---
		11+36 'NL'	RT	1	---	1	---
		11+26 'NL'	LT	1	---	1	---
		258+00	LT	1	---	1	---
		257+84	LT	1	---	1	---
		258+49	LT	1	---	1	---
		261+01	LT	2	---	2	---
		266+50	LT	1	---	1	---
		268+99	LT	1	---	---	1
		269+04	LT	1	---	---	1
		274+35	LT	1	---	1	---
		275+02	LT	1	---	1	---
		276+50	LT	2	---	2	---
		278+99	LT	1	---	1	---
		229+54 'SW'	RT	1	---	1	---
		229+54 'SW'	RT	1	1	---	---
		229+54 'SW'	LT	1	---	1	---
		232+70 'SW1'	LT	---	---	1	---
		232+69 'NW'	LT	---	---	1	---
		234+00 'NW'	RT	1	---	1	---
		234+08 'NW'	RT	1	---	1	---
		234+32 'NW'	RT	1	---	1	---
		234+24 'NW'	RT	1	---	1	---
		236+98 'NW'	LT	1	---	1	---
		236+99 'NW'	LT	1	1	---	---
		236+99 'NW'	RT	1	1	---	---
		237+00 'NW'	RT	1	---	1	---
	SUBTOTAL (STAGE 3)			106	5	92	11
	STAGE 4	144+92	RT	2	---	2	---
		146+50	LT	1	---	1	---
		149+00	RT	1	---	1	---
		151+50	RT	1	---	1	---
		153+36	LT	1	---	1	---
		153+70	RT	2	---	2	---
		154+91	RT	1	---	1	---
		160+05	RT	1	---	---	1
		161+30	RT	1	---	1	---
		165+94	RT	1	---	---	1
		168+38	LT	1	---	1	---
		168+40	RT	1	---	1	---
		170+55	RT	1	---	1	---
		176+99	LT	1	---	1	---
		178+50	LT	1	---	1	---
		178+65	LT	1	---	1	---
		180+02	LT	1	---	---	1
		180+16	RT	2	---	---	2
		181+79	RT	1	---	1	---
		185+50	LT	1	---	---	1
		185+68	RT	1	---	---	1
		205+50	RT	1	---	1	---
		212+21	RT	1	---	1	---
		219+50	LT	1	---	1	---
		222+50	LT	1	---	1	---
		239+54	LT	1	---	1	---
		241+94	LT	1	---	1	---
		242+00	LT	1	---	1	---
		257+84	LT	1	---	1	---
		258+15	RT	2	---	2	---
	SUBTOTAL (STAGE 4)			34	---	27	7
	TOTALS			231	9	367	27

POSTS WOOD & SIGNS REFLECTIVE TYPE II

CATEGORY	SIGN NO.	STATION	LOCATION	SIGN CODE	SIZE	CODE DESCRIPTION W/ VARIABLE MESSAGE	637.0202 SIGNS REFLECTIVE TYPE II SF	634.0614 POSTS WOOD 4X6-INCH X 14-FT EACH	634.0616 POSTS WOOD 4X6-INCH X 16-FT EACH	634.0618 POSTS WOOD 4X6-INCH X 18-FT EACH	REMARKS
0010	1-1	141+28	RT	R2-1	24 X 30	SPEED LIMIT 40 MPH	5.00	1	---	---	
	1-2	141+28	RT	R2-1	24 X 30	SPEED LIMIT 40 MPH	5.00	1	---	---	
	1-3	142+73	RT	R3-2	24 X 24	NO LEFT TURN SYMBOL	4.00	1	---	---	
	1-4	143+60	LT	R4-7	24 X 30	KEEP RIGHT	5.00	1	---	---	
	1-5	143+65	RT	W11-2	30 X 30	CROSSWALK	6.25	---	1	---	
	1-6	143+65	RT	W16-7R	24 X 12	ARROW	2.00	---	---	---	MOUNT WITH SIGN 1-5
	1-7	143+65	RT	W11-2	30 X 30	CROSSWALK	6.25	---	1	---	
	1-8	143+65	RT	W16-7R	24 X 12	ARROW	2.00	---	---	---	MOUNT WITH SIGN 1-7
	1-9	143+82	LT	W11-2	30 X 30	CROSSWALK	6.25	---	1	---	
	1-10	143+82	LT	W16-7R	24 X 12	ARROW	2.00	---	---	---	MOUNT WITH SIGN 1-9
	1-11	143+82	LT	W11-2	30 X 30	CROSSWALK	6.25	---	1	---	
	1-12	143+82	LT	W16-7R	24 X 12	ARROW	2.00	---	---	---	MOUNT WITH SIGN 1-11
	1-13	144+65	RT	R4-7	24 X 30	KEEP RIGHT	5.00	1	---	---	
	1-14	144+70	RT	R3-4	24 X 24	NO U-TURN SYMBOL	4.00	1	---	---	
	1-15	145+10	RT	R7-1R	18 X 24	NO PARKING ANYTIME (SINGLE ARROW)	3.00	1	---	---	
	1-16	145+85	LT	R7-1D	18 X 24	NO PARKING ANYTIME (DOUBLE ARROW)	3.00	1	---	---	
	1-17	144+65	LT	R3-55L	36 X 48	LEFT TURN LANE W/ DOWN RIGHT ARROW	12.00	1	---	---	
	2-1	146+21	RT	W3-3	36 X 36	SIGNAL AHEAD	9.00	---	1	---	
	2-2	146+21	RT	W3-3	36 X 36	SIGNAL AHEAD	9.00	---	1	---	
	2-3	146+82	LT	R1-1	36 X 36	STOP	9.00	1	---	---	
	2-4	147+50	LT	R3-55L	36 X 48	LEFT TURN LANE W/ DOWN RIGHT ARROW	12.00	1	---	---	
	2-5	148+31	RT	R3-55L	36 X 48	LEFT TURN LANE W/ DOWN RIGHT ARROW	12.00	1	---	---	
	2-6	149+30	LT	R7-1D	18 X 24	NO PARKING (DOUBLE ARROW)	3.00	1	---	---	
	2-7	150+76	LT	R2-1	24 X 30	SPEED LIMIT 40 MPH	5.00	1	---	---	
	2-8	150+76	LT	R2-1	24 X 30	SPEED LIMIT 40 MPH	5.00	1	---	---	
	2-9	151+90	LT	J4-1	24 X 36	REASSURANCE ASSEMBLY	6.00	1	---	---	
				M3-3	24 X 12	SOUTH					
				M1-6	24 X 24	STATE ROUTE MARKER (181)					
	2-10	151+67	RT	R7-1D	18 X 24	NO PARKING ANYTIME (DOUBLE ARROW)	3.00	1	---	---	
	3-1	152+31	RT	R3-56	24 X 30	LEFT TURN LANE W/ DOWN LEFT ARROW	5.00	---	1	---	
	3-2	152+35	LT	R6-2L	24 X 30	ONE WAY	5.00	---	---	---	MOUNT ON TRAFFIC SIGNAL POLE
	3-3	152+37	LT	R1-1F	36 X 36	FOLDING STOP	9.00	---	---	---	MOUNT ON TRAFFIC SIGNAL POLE
	3-4	152+37	LT	R4-7	24 X 30	KEEP RIGHT	5.00	---	---	---	MOUNT ON OVERHEAD SUPPORT
	3-5	152+50	LT	M1-94	84 X 21	W CALUMET RD	12.25	---	---	---	MOUNT ON TRAFFIC SIGNAL POLE
	3-6	152+50	LT	R1-1F	36 X 36	FOLDING STOP	9.00	---	---	---	MOUNT ON TRAFFIC SIGNAL POLE
	3-7	152+55	RT	R1-1F	36 X 36	FOLDING STOP	9.00	---	---	---	MOUNT ON TRAFFIC SIGNAL POLE
	3-8	152+61	RT	R5-1	30 X 30	DO NOT ENTER	6.25	1	---	---	
	3-9	152+55	RT	R5-1	30 X 30	DO NOT ENTER	6.25	---	---	---	MOUNT ON TRAFFIC SIGNAL POLE
	3-10	152+95	LT	R4-7	24 X 30	KEEP RIGHT	5.00	---	---	---	MOUNT ON TRAFFIC SIGNAL POLE
	3-12	153+35	LT	R5-1	30 X 30	DO NOT ENTER	6.25	1	---	---	
	3-13	153+37	RT	R1-1F	36 X 36	FOLDING STOP	9.00	---	---	---	MOUNT ON TRAFFIC SIGNAL POLE
	3-14	153+46	LT	R5-1	30 X 30	DO NOT ENTER	6.25	1	---	---	
	3-15	153+50	RT	M1-94	84 X 21	W CALUMET RD	12.25	---	---	---	MOUNT ON OVERHEAD SUPPORT
	3-16	153+56	LT	R1-1F	36 X 36	FOLDING STOP	9.00	---	---	---	MOUNT ON TRAFFIC SIGNAL POLE
	3-17	153+64	RT	R6-2L	24 X 30	ONE WAY	5.00	1	---	---	
	3-18	153+66	RT	R1-1F	36 X 36	FOLDING STOP	9.00	---	---	---	MOUNT ON TRAFFIC SIGNAL POLE
	3-19	153+66	RT	R4-7	24 X 30	KEEP RIGHT	5.00	---	---	---	MOUNT ON TRAFFIC SIGNAL POLE
	3-20	153+75	LT	R3-56	24 X 30	LEFT TURN LANE W/ DOWN LEFT ARROW	5.00	---	1	---	
	3-21	154+14	RT	J4-1	24 X 36	REASSURANCE ASSEMBLY	6.00	1	---	---	
				M3-3	24 X 12	NORTH					
				M1-6	24 X 24	STATE ROUTE MARKER (181)					
	3-22	154+18	LT	R7-1D	18 X 24	NO PARKING ANYTIME (DOUBLE ARROW)	3.00	1	---	---	
	3-23	154+88	RT	R7-1D	18 X 24	NO PARKING ANYTIME (DOUBLE ARROW)	3.00	1	---	---	
	3-24	156+42	RT	R2-1	24 X 30	SPEED LIMIT 40 MPH	5.00	1	---	---	
	3-25	156+45	RT	R2-1	24 X 30	SPEED LIMIT 40 MPH	5.00	1	---	---	
	3-26	156+49	LT	R3-55L	36 X 48	LEFT TURN LANE W/ DOWN RIGHT ARROW	12.00	1	---	---	
	4-1	160+10	LT	R7-1D	18 X 24	NO PARKING ANYTIME (DOUBLE ARROW)	3.00	1	---	---	
	4-2	160+17	LT	R4-7	24 X 30	KEEP RIGHT	5.00	1	---	---	
	4-3	161+18	LT	R4-7	24 X 30	KEEP RIGHT	5.00	1	---	---	
	4-4	161+62	RT	R7-1D	18 X 24	NO PARKING ANYTIME (DOUBLE ARROW)	3.00	1	---	---	
	4-5	163+57	LT	R7-1D	18 X 24	NO PARKING ANYTIME (DOUBLE ARROW)	3.00	1	---	---	

CONT. ON NEXT PAGE

POSTS WOOD & SIGNS REFLECTIVE TYPE II (CONT'D)

CATEGORY	SIGN NO.	STATION	LOCATION	SIGN CODE	SIZE	CODE DESCRIPTION W/ VARIABLE MESSAGE	637.0202 SIGNS REFLECTIVE TYPE II SF	634.0614 POSTS WOOD 4X6-INCH X 14-FT EACH	634.0616 POSTS WOOD 4X6-INCH X 16-FT EACH	634.0618 POSTS WOOD 4X6-INCH X 18-FT EACH	REMARKS
0010	5-1	165+02	RT	R2-1	24 X 30	SPEED LIMIT 40 MPH	5.00	1	---	---	
	5-2	165+07	RT	R2-1	24 X 30	SPEED LIMIT 40 MPH	5.00	1	---	---	
	5-3	165+07	LT	R2-1	24 X 30	SPEED LIMIT 40 MPH	5.00	1	---	---	
	5-4	165+07	LT	R2-1	24 X 30	SPEED LIMIT 40 MPH	5.00	1	---	---	
	5-5	166+20	LT	R7-1D	18 X 24	NO PARKING ANYTIME (DOUBLE ARROW)	3.00	1	---	---	
	5-6	166+97	RT	W11-2	30 X 30	CROSSWALK	6.25	---	1	---	
	5-7	166+97	RT	W16-7R	24 X 12	ARROW	2.00	---	---	---	MOUNT WITH SIGN 5-6
	5-8	167+19	LT	R4-7	24 X 30	KEEP RIGHT	5.00	1	---	---	
	5-9	167+21	LT	W11-2	30 X 30	CROSSWALK	6.25	---	1	---	
	5-10	167+21	LT	W16-7R	24 X 12	ARROW	2.00	---	---	---	MOUNT WITH SIGN 5-9
	5-11	167+53	LT	R1-1	36 X 36	STOP	9.00	1	---	---	
	5-12	168+04	LT	R6-2L	24 X 30	ONE WAY	5.00	1	---	---	
	5-13	168+04	LT	R5-1	30 X 30	DO NOT ENTER	6.25	1	---	---	
	5-14	168+11	RT	R6-2L	24 X 30	ONE WAY	5.00	1	---	---	
	5-15	168+38	RT	R7-1D	18 X 24	NO PARKING ANYTIME (DOUBLE ARROW)	3.00	1	---	---	
	5-16	168+34	RT	R4-7	24 X 30	KEEP RIGHT	5.00	1	---	---	
	6-1	170+27	LT	R7-1D	18 X 24	NO PARKING ANYTIME (DOUBLE ARROW)	3.00	1	---	---	
	6-2	173+46	LT	R3-4	24 X 24	NO U TURN	4.00	---	---	---	MOUNT WITH SIGN 6-8
	6-3	170+47	LT	R3-55L	36 X 48	LEFT TURN LANE W/ DOWN RIGHT ARROW	12.00	1	---	---	
	6-4	170+64	RT	R3-55L	36 X 48	LEFT TURN LANE W/ DOWN RIGHT ARROW	12.00	1	---	---	
	6-5	172+82	RT	R7-1D	18 X 24	NO PARKING ANYTIME (DOUBLE ARROW)	3.00	1	---	---	
	6-6	173+35	RT	R3-56	36 X 48	LEFT TURN LANE W/ DOWN LEFT ARROW	12.00	---	1	---	
	6-7	173+27	LT	R7-1D	18 X 24	NO PARKING ANYTIME (DOUBLE ARROW)	3.00	1	---	---	
	6-8	173+46	LT	R4-7	24 X 30	KEEP RIGHT	5.00	1	---	---	
	6-9	173+69	LT	R5-2	24 X 24	NO TRUCKS	4.00	1	---	---	
	6-10	173+69	LT	R5-2A	24 X 12	3 TONS OR OVER	2.00	---	---	---	MOUNT WITH SIGN 6-9
	6-11	174+00	LT	R1-1	36 X 36	STOP	9.00	1	---	---	
	6-12	173+69	LT	R1-1	36 X 36	STOP	9.00	1	---	---	
	6-16	174+58	RT	R6-2L	24 X 30	ONE WAY	5.00	1	---	---	
	6-17	174+85	RT	R4-7	24 X 30	KEEP RIGHT	5.00	1	---	---	
	6-18	174+85	RT	R3-4	24 X 24	NO U TURN	4.00	---	---	---	MOUNT WITH SIGN 6-17
	6-19	174+95	LT	R3-56	36 X 48	LEFT TURN LANE W/ DOWN LEFT ARROW	12.00	---	1	---	
	6-20	175+31	RT	W3-3	36 X 36	SIGNAL AHEAD	9.00	---	1	---	
	6-21	175+31	RT	W3-3	36 X 36	SIGNAL AHEAD	9.00	---	1	---	
	7-1	176+30	LT	R7-1D	18 X 24	NO PARKING ANYTIME (DOUBLE ARROW)	3.00	1	---	---	
	7-2	176+45	RT	R7-1D	18 X 24	NO PARKING ANYTIME (DOUBLE ARROW)	3.00	1	---	---	
	7-3	177+21	LT	R3-55L	36 X 48	LEFT TURN LANE W/ DOWN RIGHT ARROW	12.00	1	---	---	
	7-4	177+92	LT	R2-1	24 X 30	SPEED LIMIT 40 MPH	5.00	1	---	---	
	7-5	177+92	LT	R2-1	24 X 30	SPEED LIMIT 40 MPH	5.00	1	---	---	
	7-6	178+54	LT	J4-1	24 X 36	REASSURANCE ASSEMBLY	6.00	1	---	---	
				M3-3	24 X 12	SOUTH					
				M1-6	24 X 24	STATE ROUTE MARKER (181)					
	7-7	178+61	LT	R1-1F	36 X 36	FOLDING STOP	9.00	---	---	---	MOUNT ON TRAFFIC SIGNAL POLE
	7-8	178+61	LT	R4-7	24 X 30	KEEP RIGHT	5.00	---	---	---	MOUNT ON TRAFFIC SIGNAL POLE
	7-9	178+57	RT	R3-56	24 X 30	LEFT TURN LANE W/ DOWN LEFT ARROW	5.00	---	1	---	
	7-10	178+71	LT	R6-2L	24 X 30	ONE WAY	5.00	1	---	---	
	7-11	178+84	LT	M1-94	84 X 21	W BRADLEY RD	12.25	---	---	---	MOUNT ON OVERHEAD SUPPORT
	7-12	178+88	RT	R5-1	30 X 30	DO NOT ENTER	6.25	1	---	---	
	7-13	178+79	RT	R1-1F	36 X 36	FOLDING STOP	9.00	---	---	---	MOUNT ON TRAFFIC SIGNAL POLE
	7-14	178+91	LT	R1-1F	36 X 36	FOLDING STOP	9.00	---	---	---	MOUNT ON TRAFFIC SIGNAL POLE
	7-15	179+37	RT	R1-1F	36 X 36	FOLDING STOP	9.00	---	---	---	MOUNT ON TRAFFIC SIGNAL POLE
	7-16	179+37	RT	R4-7	24 X 30	KEEP RIGHT	5.00	---	---	---	MOUNT ON TRAFFIC SIGNAL POLE
	7-17	179+44	LT	R1-1F	36 X 36	FOLDING STOP	9.00	---	---	---	MOUNT ON TRAFFIC SIGNAL POLE
	7-18	179+44	LT	R4-7	24 X 36	KEEP RIGHT	6.00	---	---	---	MOUNT ON TRAFFIC SIGNAL POLE
	7-19	179+92	LT	R5-1	30 X 30	DO NOT ENTER	6.25	1	---	---	
	7-20	179+88	RT	R1-1F	36 X 36	FOLDING STOP	9.00	---	---	---	MOUNT ON TRAFFIC SIGNAL POLE
	7-21	179+95	RT	M1-94	84 X 21	W BRADLEY RD	12.25	---	---	---	MOUNT ON OVERHEAD SUPPORT

CONT. ON NEXT PAGE

POSTS WOOD & SIGNS REFLECTIVE TYPE II (CONT'D)

CATEGORY	SIGN NO.	STATION	LOCATION	SIGN CODE	SIZE	CODE DESCRIPTION W/ VARIABLE MESSAGE	637.0202 SIGNS REFLECTIVE TYPE II SF	634.0614 POSTS WOOD 4X6-INCH X 14-FT EACH	634.0616 POSTS WOOD 4X6-INCH X 16-FT EACH	634.0618 POSTS WOOD 4X6-INCH X 18-FT EACH	REMARKS
0010	7-22	180+10	RT	R6-2L	24 X 30	ONE WAY	5.00	1	---	---	
	7-23	180+10	RT	R1-1F	36 X 36	FOLDING STOP	9.00	---	---	---	MOUNT ON TRAFFIC SIGNAL POLE
	7-24	180+10	RT	R4-7	24 X 30	KEEP RIGHT	5.00	---	---	---	MOUNT ON TRAFFIC SIGNAL POLE
	7-25	180+23	RT	R3-56	24 X 30	LEFT TURN LANE W/ DOWN LEFT ARROW	5.00	---	1	---	
	7-26	180+66	RT	J4-1	24 X 36	REASSURANCE ASSEMBLY	6.00	1	---	---	
				M3-1	24 X 12	NORTH					
				M1-6	24 X 24	STATE ROUTE MARKER (181)					
	7-27	181+20	RT	R2-1	24 X 30	SPEED LIMIT 40 MPH	5.00	1	---	---	
	7-28	181+20	RT	R2-1	24 X 30	SPEED LIMIT 40 MPH	5.00	1	---	---	
	7-30	178+79	RT	R5-1	30 X 30	DO NOT ENTER	6.25	---	---	---	MOUNT ON TRAFFIC SIGNAL POLE
	7-31	179+44	LT	R5-1	30 X 30	DO NOT ENTER	6.25				MOUNT ON TRAFFIC SIGNAL POLE
	8-1	182+33	RT	R7-1D	18 X 24	NO PARKING ANYTIME (DOUBLE ARROW)	3.00	1	---	---	
	8-2	183+36	LT	R7-1D	18 X 24	NO PARKING ANYTIME (DOUBLE ARROW)	3.00	1	---	---	
	8-3	184+66	RT	R3-55L	36 X 48	LEFT TURN LANE W/ DOWN RIGHT ARROW	12.00	---	1	---	
	8-4	185+85	LT	R4-7	24 X 30	KEEP RIGHT	5.00	---	---	---	MOUNT ON TRAFFIC SIGNAL POLE
	8-5	185+85	LT	R1-1F	36 X 36	FOLDING STOP	9.00	---	---	---	MOUNT ON TRAFFIC SIGNAL POLE
	8-6	185+85	RT	R1-1F	36 X 36	FOLDING STOP	9.00	---	---	---	MOUNT ON TRAFFIC SIGNAL POLE
	8-7	185+80	LT	R6-2L	24 X 30	ONE WAY	5.00	1	---	---	
	8-8	185+95	LT	M1-94	78 X 21	W TOWER AVE	11.38	---	---	---	MOUNT ON OVERHEAD SUPPORT
	8-9	186+05	LT	R1-1F	36 X 36	FOLDING STOP	9.00	---	---	---	MOUNT ON TRAFFIC SIGNAL POLE
	8-10	186+72	RT	M1-94	78 X 21	W TOWER AVE	11.38	---	---	---	MOUNT ON OVERHEAD SUPPORT
	8-11	186+80	RT	R6-2L	24 X 30	ONE WAY	5.00	---	---	---	MOUNT ON TRAFFIC SIGNAL POLE
	8-12	186+82	LT	R1-1F	36 X 36	FOLDING STOP	9.00	---	---	---	MOUNT ON TRAFFIC SIGNAL POLE
	8-13	187+02	RT	R1-1F	36 X 36	FOLDING STOP	9.00	---	---	---	MOUNT ON TRAFFIC SIGNAL POLE
	8-14	187+02	RT	R4-7	24 X 30	KEEP RIGHT	5.00	---	---	---	MOUNT ON TRAFFIC SIGNAL POLE
	8-15	187+13	LT	R3-56	24 X 30	LEFT TURN LANE W/ DOWN LEFT ARROW	5.00	---	1	---	
	8-16	187+37	RT	R2-1	24 X 30	SPEED LIMIT 40 MPH	5.00	1	---	---	
	8-17	187+37	RT	R2-1	24 X 30	SPEED LIMIT 40 MPH	5.00	1	---	---	
	8-18	187+58	LT	R7-1D	18 X 24	NO PARKING ANYTIME (DOUBLE ARROW)	3.00	1	---	---	
	9-1	189+79	LT	R3-55L	36 X 48	LEFT TURN LANE W/ DOWN RIGHT ARROW	12.00	1	---	---	
	9-2	190+67	LT	W3-3	36 X 36	SIGNAL AHEAD	9.00	---	1	---	
	9-3	190+67	RT	R7-1D	18 X 24	NO PARKING ANYTIME (DOUBLE ARROW)	3.00	1	---	---	
	9-4	190+67	LT	W3-3	36 X 36	SIGNAL AHEAD	9.00	---	1	---	
	9-5	191+37	LT	R7-1D	18 X 24	NO PARKING ANYTIME (DOUBLE ARROW)	3.00	1	---	---	
	10-3	194+95	RT	R7-1D	18 X 24	NO PARKING ANYTIME (DOUBLE ARROW)	3.00	1	---	---	
	10-4	194+90	LT	R7-1D	18 X 24	NO PARKING ANYTIME (DOUBLE ARROW)	3.00	1	---	---	
	10-5	198+66	RT	R2-1	24 X 30	SPEED LIMIT 40 MPH	5.00	1	---	---	
	10-6	198+66	RT	R2-1	24 X 30	SPEED LIMIT 40 MPH	5.00	1	---	---	
	11-1	200+22	LT	R7-1D	18 X 24	NO PARKING ANYTIME (DOUBLE ARROW)	3.00	1	---	---	
	11-2	200+22	RT	W3-3	36 X 36	SIGNAL AHEAD	9.00	---	1	---	
	11-3	200+22	RT	W3-3	36 X 36	SIGNAL AHEAD	9.00	---	1	---	
	11-4	202+89	RT	R3-55L	36 X 48	LEFT TURN LANE W/ DOWN RIGHT ARROW	12.00	1	---	---	
	11-5	202+89	LT	R3-2	24 X 24	NO LEFT TURN SYMBOL	4.00	1	---	---	
	11-6	203+36	RT	R7-1D	18 X 24	NO PARKING ANYTIME (DOUBLE ARROW)	3.00	1	---	---	
	11-7	203+45	LT	R2-1	24 X 30	SPEED LIMIT 40 MPH	5.00	1	---	---	
	11-8	203+45	LT	R2-1	24 X 30	SPEED LIMIT 40 MPH	5.00	1	---	---	
	11-9	205+17	RT	R3-56	24 X 30	LEFT TURN LANE W/ DOWN LEFT ARROW	5.00	---	1	---	
	11-10	205+30	LT	R1-1F	36 X 36	FOLDING STOP	9.00	---	---	---	MOUNT ON TRAFFIC SIGNAL POLE
	11-11	205+30	LT	R4-7	24 X 30	KEEP RIGHT	5.00	---	---	---	MOUNT ON TRAFFIC SIGNAL POLE
	11-12	205+41	LT	R6-2L	24 X 30	ONE WAY	5.00	1	---	---	
	11-13	205+58	LT	M1-94	66 X 21	W DEAN RD	9.63	---	---	---	MOUNT ON OVERHEAD SUPPORT
	11-14	205+65	LT	R1-1F	36 X 36	FOLDING STOP	9.00	---	---	---	MOUNT ON TRAFFIC SIGNAL POLE
	11-15	205+52	RT	R1-1F	36 X 36	FOLDING STOP	9.00	---	---	---	MOUNT ON TRAFFIC SIGNAL POLE
	11-16	205+62	RT	R5-1	30 X 30	DO NOT ENTER	6.25	1	---	---	
	11-17	205+52	RT	R5-1	30 X 30	DO NOT ENTER	6.25	---	---	---	MOUNT ON TRAFFIC SIGNAL POLE
	12-1	206+32	RT	R1-1F	36 X 36	FOLDING STOP	9.00	---	---	---	MOUNT ON TRAFFIC SIGNAL POLE
	12-2	206+45	LT	M1-94	66 X 21	W DEAN AVE	9.63	---	---	---	MOUNT ON OVERHEAD SUPPORT
	12-3	206+36	LT	R5-1	36 X 36	DO NOT ENTER	9.00	1	---	---	
	12-4	206+52	LT	R1-1F	36 X 36	FOLDING STOP	9.00	---	---	---	MOUNT ON TRAFFIC SIGNAL POLE
	12-5	206+56	RT	R6-2L	24 X 30	ONE WAY	5.00	1	---	---	

CONT. ON NEXT PAGE

POSTS WOOD & SIGNS REFLECTIVE TYPE II (CONT'D)

CATEGORY	SIGN NO.	STATION	LOCATION	SIGN CODE	SIZE	CODE DESCRIPTION W/ VARIABLE MESSAGE	637.0202 SIGNS REFLECTIVE TYPE II SF	634.0614 POSTS WOOD 4X6-INCH X 14-FT EACH	634.0616 POSTS WOOD 4X6-INCH X 16-FT EACH	634.0618 POSTS WOOD 4X6-INCH X 18-FT EACH	REMARKS
0010	12-6	206+69	LT	R1-1F	36 X 36	FOLDING STOP	9.00	---	---	---	MOUNT ON TRAFFIC SIGNAL POLE
	12-7	206+69	LT	R4-7	36 X 48	KEEP RIGHT	12.00	---	---	---	MOUNT ON TRAFFIC SIGNAL POLE
	12-8	206+81	LT	R3-56	24 X 30	LEFT TURN LANE W/ DOWN LEFT ARROW	5.00	1	---	---	
	12-9	207+56	RT	J4-1	36 X 51	REASSURANCE ASSEMBLY	12.75	1	---	---	
				M3-3	30 X 15	JCT					
				M1-6	36 X 36	STATE ROUTE MARKER (100)					
	12-10	208+66	LT	R3-55L	36 X 48	LEFT TURN LANE W/ DOWN RIGHT ARROW	12.00	---	1	---	
	12-11	208+93	RT	R7-1D	24 X 30	NO PARKING ANYTIME (DOUBLE ARROW)	5.00	1	---	---	
	12-12	209+50	RT	J1-1	36 X 57	JUNCTION ASSEMBLY	14.25	1	---	---	
				M2-1	30 X 21	JCT					
				M1-6	36 X 36	100					
	12-13	211+00	RT	M1-94A	96 X 24	BROWN DEER RD W/ 8800 N	16.00	2	---	---	
	12-14	209+56	RT	J1-1	36 X 57	JUNCTION ASSEMBLY	14.25	1	---	---	
				M2-1	30 X 21	JCT					
				M1-6	36 X 36	100					
	12-15	209+57	LT	R7-1D	24 X 30	NO PARKING ANYTIME (DOUBLE ARROW)	5.00	1	---	---	
	12-16	211+07	RT	R2-1	36 X 48	SPEED LIMIT 45 MPH	12.00	1	---	---	
	12-17	211+16	LT	W3-3	36 X 36	SIGNAL AHEAD	9.00	---	1	---	
	12-18	211+16	LT	W3-3	36 X 36	SIGNAL AHEAD	9.00	---	1	---	
	12-19	206+52	LT	R5-1	36 X 36	DO NOT ENTER	9.00	---	---	---	MOUNT ON TRAFFIC SIGNAL POLE
	13-1	212+25	RT	R3-7R	36 X 36	RIGHT LANE MUST TURN RIGHT	9.00	1	---	---	
	13-2	212+42	LT	R4-7	36 X 48	KEEP RIGHT	12.00	1	---	---	
	13-5	212+64	LT	R6-2L	24 X 30	ONE WAY	5.00	1	---	---	
	13-6	213+25	RT	R1-1	36 X 36	STOP	9.00	1	---	---	
	13-7	213+29	LT	R5-1	36 X 36	DO NOT ENTER	9.00	1	---	---	
	13-8	213+58	RT	R4-7	36 X 48	KEEP RIGHT	12.00	1	---	---	
	13-9	213+68	LT	R3-56	36 X 48	LEFT TURN LANE W/ DOWN LEFT ARROW	12.00	---	1	---	
	13-10	214+00	RT	J12-1 MOD.	36 X 61	ROUTE TURN ASSEMBLY W/O CARDINAL (MODIFIED)	15.25	---	---	---	MOUNTED ON OVERHEAD SUPPORT
	13-11	214+18	LT	R7-1D	24 X 30	NO PARKING ANYTIME (DOUBLE ARROW)	5.00	1	---	---	
	13-12	215+12	RT	J12-1	36 X 66	ROUTE TURN ASSEMBLY W/O CARDINAL	16.50	1	---	---	
				M1-6	36 X 36	STATE ROUTE MARKER (100)					
				M5-2R	30 X 30	RIGHT ARROW					
	13-13	215+12	RT	J12-1	36 X 66	ROUTE TURN ASSEMBLY W/O CARDINAL	16.50	1	---	---	
				M1-6	36 X 36	STATE ROUTE MARKER (100)					
				M5-2R	30 X 30	RIGHT ARROW					
	13-14	215+53	RT	R7-1D	24 X 30	NO PARKING ANYTIME (DOUBLE ARROW)	5.00	1	---	---	
	13-15	215+90	RT	D1-3	108 X 36	DESTINATION SIGN	27.00	3	---	---	
	13-16	215+90	RT	D1-3	108 X 36	DESTINATION SIGN	27.00	3	---	---	
	13-17	216+39	LT	R3-55L	36 X 48	LEFT TURN LANE W/ DOWN RIGHT ARROW	12.00	1	---	---	
	13-18	217+00	RT	R3-7R	48 X 48	RIGHT LANE MUST TURN RIGHT	16.00	---	1	---	
	13-19	217+30	LT	R2-1	36 X 45	SPEED LIMIT 45 MPH	11.25	1	---	---	
	13-20	217+29	LT	R2-1	36 X 48	SPEED LIMIT 45 MPH	12.00	1	---	---	
	13-21	217+32	RT	J12-1	36 X 66	ROUTE TURN ASSEMBLY W/O CARDINAL	16.50	1	---	---	
				M1-6	36 X 36	100					
				M5-2R	30 X 30	RIGHT ARROW					
	14-1	220+51	RT	R7-1D	24 X 30	NO PARKING ANYTIME (DOUBLE ARROW)	5.00	1	---	---	
	14-2	221+06	LT	R7-1D	18 X 24	NO PARKING ANYTIME (DOUBLE ARROW)	3.00	1	---	---	
	15-1	224+75	LT	W4-1	36 X 36	MERGING TRAFFIC	9.00	1	---	---	
	15-2	224+75	RT	J13-1	24 X 45	DIRECTIONAL ASSEMBLY W/O CARDINAL	7.50	1	---	---	
				M1-6	24 X 24	100					
				M6-2	21 X 21	ARROW					
	15-3	226+00	RT	R2-1	24 X 30	SPEED LIMIT 45 MPH	5.00	1	---	---	
	15-4	226+00	RT	R2-1	24 X 30	SPEED LIMIT 45 MPH	5.00	1	---	---	
	15-5	225+90 'SE'	RT	W3-3	30 X 30	SIGNAL AHEAD	6.25	---	1	---	
	15-6	226+61 'SE'	RT	J2-2	48 X 57	ROUTE TURN ASSEMBLY	19.00	---	1	---	
				M3-2	24 X 12	EAST					
				M3-4	24 X 12	WEST					
				M1-6	24 X 24	100					
				M1-6	24 X 24	100					
				M5-2L	21 X 21	LEFT ARROW					

CONT. ON NEXT PAGE

POSTS WOOD & SIGNS REFLECTIVE TYPE II (CONT'D)

CATEGORY	SIGN NO.	STATION	LOCATION	SIGN CODE	SIZE	CODE DESCRIPTION W/ VARIABLE MESSAGE	637.0202 SIGNS REFLECTIVE TYPE II SF	634.0614 POSTS WOOD 4X6-INCH X 14-FT EACH	634.0616 POSTS WOOD 4X6-INCH X 16-FT EACH	634.0618 POSTS WOOD 4X6-INCH X 18-FT EACH	REMARKS
0010				M5-2R	21 X 21	RIGHT ARROW					
	15-7	227+50	RT	R7-1D	24 X 30	NO PARKING ANYTIME (DOUBLE ARROW)	5.00	1	---	---	
	15-8	227+53	LT	R7-1D	24 X 30	NO PARKING ANYTIME (DOUBLE ARROW)	5.00	1	---	---	
	15-9	227+88 'SE'	LT	D1-3	108 X 30	DESTINATION SIGN	22.50	3	---	---	
	15-10	227+53 'SE'	RT	R3-8A	30 X 36	LANE DESIGNATION	7.50	1	---	---	
	15-11	227+88 'SE'	RT	R5-1A	30 X 18	WRONG WAY	3.75	1	---	---	
	15-12	225+00	RT	E5-1	72 X 60	EXIT	30.00	---	---	2	
	16-1	230+53	LT	R7-1D	24 X 30	NO PARKING	5.00	1	---	---	
	16-2	230+49	RT	R7-1D	24 X 30	NO PARKING	5.00	1	---	---	
	16-7	234+66	RT	R7-1D	24 X 30	NO PARKING ANYTIME (DOUBLE ARROW)	5.00	1	---	---	
	16-8	234+94	LT	R7-1D	24 X 30	NO PARKING ANYTIME (DOUBLE ARROW)	5.00	1	---	---	
	17-1	236+40	LT	R2-1	36 X 48	SPEED LIMIT 45 MPH	12.00	1	---	---	
	17-2	236+40	LT	R2-1	36 X 48	SPEED LIMIT 45 MPH	12.00	1	---	---	
	17-3	237+67	RT	R7-1D	24 X 30	NO PARKING ANYTIME (DOUBLE ARROW)	5.00	1	---	---	
	17-4	237+63	LT	R7-1D	24 X 30	NO PARKING ANYTIME (DOUBLE ARROW)	5.00	1	---	---	
	17-5	238+40	RT	W4-1	36 X 36	MERGING TRAFFIC	9.00	---	1	---	
	17-6	238+00	RT	R1-2	36 X 31	YIELD	7.75	1	---	---	
	17-7	238+92	LT	J2-2	48 X 57	ROUTE TURN ASSEMBLY	19.00	---	1	---	
				M3-2	24 X 12	EAST					
				M3-4	24 X 12	WEST					
				M1-6	24 X 24	100					
				M1-6	24 X 24	100					
				M5-1L	21 X 21	ARROW LEFT					
				M5-1R	21 X 21	ARROW RIGHT					
	17-8	240+59	LT	W3-3	36 X 36	SIGNAL AHEAD	9.00	---	1	---	
	17-9	240+70	RT	W3-3	36 X 36	SIGNAL AHEAD	9.00	---	1	---	
	17-10	240+68	RT	W3-3	36 X 36	SIGNAL AHEAD	9.00	---	1	---	
	17-11	240+68	RT	W3-3	36 X 36	SIGNAL AHEAD	9.00	---	1	---	
	18-1	242+39	RT	R1-2	36 X 31	YIELD	7.75	1	---	---	
	18-2	243+73	LT	R7-1D	18 X 24	NO PARKING ANYTIME (DOUBLE ARROW)	3.00	1	---	---	
	18-3	244+40	LT	J12-1	24 X 45	ROUTE TURN W/O CARDINAL	7.50	1	---	---	
				M1-6	24 X 24	100					
				M5-2R	21 X 21	ARROW					
	18-4	244+79	RT	R3-55L	36 X 48	LEFT TURN ONLY	12.00	1	---	---	
	18-6	246+68	RT	R7-1D	24 X 30	NO PARKING ANYTIME (DOUBLE ARROW)	5.00	1	---	---	
	18-7	246+61	LT	R7-1D	24 X 30	NO PARKING ANYTIME (DOUBLE ARROW)	5.00	1	---	---	
	18-8	247+47	LT	J12-1	24 X 45	ROUTE TURN W/O CARDINAL	7.50	1	---	---	
				M1-6	24 X 24	100					
				M5-2R	21 X 21	RIGHT ARROW					
	19-1	248+03	LT	D1-3	108 X 36	DESTINATION SIGN	27.00	---	3	---	
	19-2	248+80	RT	R7-1D	24 X 30	NO PARKING	5.00	1	---	---	
	19-3	252+32	LT	J1-1	36 X 57	JUNCTION ASSEMBLY	14.25	1	---	---	
				M2-1	30 X 21	JCT					
				M1-6	36 X 36	100					
	19-4	248+99	LT	M1-94A	96 X 24	BROWN DEER RD W/ 8800 N	16.00	2	---	---	
	19-5	249+80	LT	R1-1F	36 X 36	FOLDING STOP	9.00	---	---	---	MOUNT ON TRAFFIC SIGNAL POLE
	19-6	249+80	LT	R10-11B	24 X 24	NO TURN ON RED	4.00	---	---	---	MOUNT ON TRAFFIC SIGNAL POLE
	19-7	249+94	RT	R3-56	24 X 30	LEFT TURN LANE W/ DOWN LEFT ARROW	5.00	---	1	---	
	19-8	250+00	LT	R1-1F	36 X 36	FOLDING STOP	9.00	---	---	---	MOUNT ON TRAFFIC SIGNAL POLE
	19-9	250+00	LT	R4-7	36 X 48	KEEP RIGHT	12.00	---	---	---	MOUNT ON TRAFFIC SIGNAL POLE
	19-10	250+10	RT	R1-1F	36 X 36	FOLDING STOP	9.00	---	---	---	MOUNT ON TRAFFIC SIGNAL POLE
	19-11	250+12	RT	R5-1	36 X 36	DO NOT ENTER	9.00	---	---	---	MOUNT ON TRAFFIC SIGNAL POLE
	19-12	250+05	LT	R3-7R	36 X 36	RIGHT LANE MUST TURN RIGHT	9.00	1	---	---	
	19-13	250+05	LT	R7-1D	18 X 24	NO PARKING ANYTIME (DOUBLE ARROW)	3.00	---	---	---	MOUNT WITH SIGN 19-12
	19-14	250+11	LT	R1-1F	36 X 36	FOLDING STOP	9.00	---	---	---	MOUNT ON TRAFFIC SIGNAL POLE
	19-15	250+25	LT	W012-1D	24 X 24	DOUBLE DOWN ARROW	4.00	1	---	---	2' MIN. MOUNTING HEIGHT
	19-16	250+25	RT	R6-2L	24 X 30	ONE WAY	5.00	1	---	---	

CONT. ON NEXT PAGE

POSTS WOOD & SIGNS REFLECTIVE TYPE II (CONT'D)

CATEGORY	SIGN NO.	STATION	LOCATION	SIGN CODE	SIZE	CODE DESCRIPTION W/ VARIABLE MESSAGE	637.0202 SIGNS REFLECTIVE TYPE II SF	634.0614 POSTS WOOD 4X6-INCH X 14-FT EACH	634.0616 POSTS WOOD 4X6-INCH X 16-FT EACH	634.0618 POSTS WOOD 4X6-INCH X 18-FT EACH	REMARKS
0010	19-18	250+55	LT	R3-8R	54 X 30	LANE DESIGNATION	11.25	2	---	---	
	19-19	251+09	RT	R6-2L	24 X 30	ONE WAY	5.00	1	---	---	
	19-20	251+10	RT	R4-7	36 X 48	KEEP RIGHT	12.00	---	---	---	MOUNT ON TRAFFIC SIGNAL POLE
	19-21	251+18	LT	R1-1F	36 X 36	FOLDING STOP	9.00	---	---	---	MOUNT ON TRAFFIC SIGNAL POLE
	19-22	251+30	LT	R1-1F	36 X 36	FOLDING STOP	9.00	---	---	---	MOUNT ON TRAFFIC SIGNAL POLE
	19-23	251+94	RT	J4-1	36 X 51	REASSURANCE ASSEMBLY	12.75	1	---	---	
				M3-1	30 X 15	NORTH					
				M1-6	36 X 36	181					
	19-24	252+06	RT	R3-55L	36 X 48	LEFT TURN LANE	12.00	1	---	---	
	19-25	252+96	RT	R2-1	36 X 48	SPEED LIMIT 45 MPH	12.00	1	---	---	
	19-26	252+96	RT	R2-1	36 X 48	SPEED LIMIT 45 MPH	12.00	1	---	---	
	19-27	253+36	RT	M1-94A	78 X 24	NORTHRIDGE LAKES	13.00	2	---	---	
	19-29	253+64	LT	R7-1D	24 X 30	NO PARKING ANYTIME (DOUBLE ARROW)	5.00	1	---	---	
	20-1	255+18	RT	R7-1D	24 X 30	NO PARKING	5.00	1	---	---	
	20-2	256+47	LT	J4-1	36 X 51	REASSURANCE ASSEMBLY	12.75	1	---	---	
				M3-3	30 X 15	SOUTH					
				M1-6	36 X 36	181					
	20-3	256+55	RT	R3-56	24 X 30	LEFT TURN LANE W/ DOWN LEFT ARROW	5.00	---	1	---	
	20-4	256+57	RT	W012-1D	30 X 30	DOUBLE DOWN ARROW	6.25	1	---	---	2' MIN. MOUNTING HEIGHT
	20-5	256+69	LT	R4-7	36 X 48	KEEP RIGHT	12.00	---	---	---	MOUNT ON TRAFFIC SIGNAL POLE
	20-6	256+69	LT	R1-1F	36 X 36	FOLDING STOP	9.00	---	---	---	MOUNT ON TRAFFIC SIGNAL POLE
	20-7	256+68	LT	R6-2L	24 X 30	ONE WAY	5.00	1	---	---	
	20-8	256+78	RT	R1-1F	36 X 36	FOLDING STOP	9.00	---	---	---	MOUNT ON TRAFFIC SIGNAL POLE
	20-9	256+57	RT	R1-2	36 X 31	YIELD	7.75	1	---	---	
	20-10	256+87	RT	R5-1	36 X 36	DO NOT ENTER	9.00	1	---	---	
	20-11	256+91	RT	R5-1	36 X 36	DO NOT ENTER	9.00	---	---	---	MOUNT ON TRAFFIC SIGNAL POLE
	20-12	256+91	LT	R1-1F	36 X 36	FOLDING STOP	9.00	---	---	---	MOUNT ON TRAFFIC SIGNAL POLE
	20-13	257+31	RT	R1-1F	36 X 36	FOLDING STOP	9.00	---	---	---	MOUNT ON TRAFFIC SIGNAL POLE
	20-14	257+31	RT	R4-7	24 X 30	KEEP RIGHT	5.00	---	---	---	MOUNT ON TRAFFIC SIGNAL POLE
	20-15	257+42	LT	R1-1F	36 X 36	FOLDING STOP	9.00	---	---	---	MOUNT ON TRAFFIC SIGNAL POLE
	20-16	257+42	LT	R4-7	24 X 30	KEEP RIGHT	5.00	---	---	---	MOUNT ON TRAFFIC SIGNAL POLE
	20-17	257+83	LT	R5-1	36 X 36	DO NOT ENTER	9.00	1	---	---	
	20-18	257+78	RT	R7-1D	18 X 24	NO PARKING ANYTIME (DOUBLE ARROW)	3.00	1	---	---	
	20-19	257+79	RT	R1-1F	36 X 36	FOLDING STOP	9.00	---	---	---	MOUNT ON TRAFFIC SIGNAL POLE
	20-20	257+97	LT	R1-1F	36 X 36	FOLDING STOP	9.00	---	---	---	MOUNT ON TRAFFIC SIGNAL POLE
	20-21	258+09	RT	R6-2L	24 X 30	ONE WAY	5.00	1	---	---	
	20-22	258+09	RT	R4-7	36 X 48	KEEP RIGHT	12.00	---	---	---	MOUNT ON TRAFFIC SIGNAL POLE
	20-23	258+09	RT	R1-1F	36 X 36	FOLDING STOP	9.00	---	---	---	MOUNT ON TRAFFIC SIGNAL POLE
	20-24	258+15	LT	R3-56	24 X 30	LEFT TURN LANE W/ DOWN LEFT ARROW	5.00	---	1	---	
	20-25	257+97	LT	R5-1	36 X 36	DO NOT ENTER	9.00	---	---	---	MOUNT ON TRAFFIC SIGNAL POLE
	21-1	260+32	RT	J4-1	36 X 51	REASSURANCE ASSEMBLY	12.75	1	---	---	
				M3-3	30 X 15	NORTH					
				M1-6	36 X 36	181					
	21-2	261+56	LT	R1-1	36 X 36	STOP	9.00	1	---	---	
	21-3	261+59	LT	R3-55L	36 X 48	LEFT TURN LANE W/ DOWN RIGHT ARROW	12.00	1	---	---	
	21-4	261+80	LT	R6-2L	24 X 30	ONE WAY	5.00	1	---	---	
	21-5	260+12	RT	R3-55L	36 X 48	LEFT TURN LANE	12.00	---	1	---	
	21-6	262+16	RT	R7-1D	24 X 30	NO PARKING ANYTIME (DOUBLE ARROW)	5.00	1	---	---	
	21-8	263+34	RT	R3-56	36 X 48	LEFT TURN LANE W/ DOWN LEFT ARROW	12.00	---	1	---	
	21-9	263+44	LT	R4-7	36 X 48	KEEP RIGHT	12.00	1	---	---	
	21-10	263+67	RT	R5-1	36 X 36	DO NOT ENTER	9.00	1	---	---	
	21-11	263+73	LT	R1-1	36 X 36	STOP	9.00	1	---	---	
	21-12	264+10	LT	R1-1	36 X 36	STOP	9.00	1	---	---	
	21-13	264+14	LT	R4-7	24 X 30	KEEP RIGHT	5.00	1	---	---	
	21-14	264+46	RT	R6-2L	24 X 30	ONE WAY	5.00	1	---	---	
	21-15	264+54	RT	R4-7	24 X 30	KEEP RIGHT	5.00	1	---	---	
	22-1	266+44	RT	R2-1	36 X 48	SPEED LIMIT 45 MPH	12.00	1	---	---	
	22-2	266+46	RT	R2-1	36 X 48	SPEED LIMIT 45 MPH	12.00	1	---	---	
	22-3	266+45	LT	W3-3	36 X 36	SIGNAL AHEAD	9.00	---	1	---	
	22-4	266+45	LT	W3-3	36 X 36	SIGNAL AHEAD	9.00	---	1	---	
	22-5	267+23	RT	R3-55L	36 X 48	LEFT TURN LANE W/ DOWN RIGHT ARROW	12.00	---	1	---	
	22-6	269+53	LT	R4-7	36 X 48	KEEP RIGHT	12.00	1	---	---	

CONT. ON NEXT PAGE

POSTS WOOD & SIGNS REFLECTIVE TYPE II (CONT'D)

CATEGORY	SIGN NO.	STATION	LOCATION	SIGN CODE	SIZE	CODE DESCRIPTION W/ VARIABLE MESSAGE	637.0202 SIGNS REFLECTIVE TYPE II SF	634.0614 POSTS WOOD 4X6-INCH X 14-FT EACH	634.0616 POSTS WOOD 4X6-INCH X 16-FT EACH	634.0618 POSTS WOOD 4X6-INCH X 18-FT EACH	REMARKS
0010	22-7	270+40	RT	R4-7	36 X 48	KEEP RIGHT	12.00	1	---	---	
	22-8	270+71	RT	M1-94A	102 X 15	GLENBROOK RD	10.63	2	---	---	
	22-9	270+88	LT	R7-1D	24 X 30	NO PARKING ANYTIME (DOUBLE ARROW)	5.00	1	---	---	
	22-10	270+91	RT	R7-1D	24 X 30	NO PARKING ANYTIME (DOUBLE ARROW)	5.00	1	---	---	
	22-11	271+14	RT	R3-55L	36 X 48	LEFT TURN LANE W/ DOWN RIGHT ARROW	12.00	---	1	---	
	22-12	271+29	LT	R2-1	36 X 48	SPEED LIMIT 45 MPH	12.00	1	---	---	
	22-13	271+29	LT	R2-1	36 X 48	SPEED LIMIT 45 MPH	12.00	1	---	---	
	23-2	274+00	LT	R7-1D	24 X 30	NO PARKING ANYTIME (DOUBLE ARROW)	5.00	1	---	---	
	23-3	274+13	RT	R3-56	36 X 48	LEFT TURN LANE W/ DOWN LEFT ARROW	12.00	---	1	---	
	23-4	274+25	LT	R4-7	36 X 48	KEEP RIGHT	12.00	1	---	---	
	23-5	274+30	RT	R7-1D	24 X 30	NO PARKING ANYTIME (DOUBLE ARROW)	5.00	1	---	---	
	23-6	274+49	RT	R5-1	36 X 36	DO NOT ENTER	9.00	1	---	---	
	23-8	274+55	LT	R1-1	36 X 36	STOP	9.00	1	---	---	
	23-9	275+40	RT	R4-7	36 X 48	KEEP RIGHT	12.00	1	---	---	
	23-10	277+75	LT	R7-1D	24 X 30	NO PARKING ANYTIME (DOUBLE ARROW)	5.00	1	---	---	
	24-1	278+09	RT	R7-1D	24 X 30	NO PARKING ANYTIME (DOUBLE ARROW)	5.00	1	---	---	
	24-2	278+15	LT	M1-94A	102 X 15	GLENBROOK RD	10.63	2	---	---	
	24-3	279+08	RT	W3-3	36 X 36	SIGNAL AHEAD	9.00	---	1	---	
	24-4	279+08	RT	W3-3	36 X 36	SIGNAL AHEAD	9.00	---	1	---	
	24-5	279+99	RT	M1-94A	84 X 15	COUNTY LINE RD	8.75	2	---	---	
	24-6	280+32	RT	R3-55R	36 X 48	RIGHT TURN LANE W/ DOWN LEFT ARROW	12.00	---	1	---	
	24-7	282+31	LT			CITY OF MILWAUKEE SIGN					
	24-8	283+87	LT	R2-1	36 X 48	SPEED LIMIT 45 MPH	12.00	1	---	---	
	24-9	282+93	RT	R3-55L	36 X 48	LEFT TURN LANE W/DOWN RIGHT ARROW	12.00	---	1	---	
	25-1	231+04	LT	J2-2	48 X 57	ROUTE TURN ASSEMBLY	19.00	---	1	---	
				M3-2	24 X 12	EAST					
				M3-4	24 X 12	WEST					
				M1-6	24 X 24	100					
				M1-6	24 X 24	100					
				M5-1L	21 X 21	ARROW LEFT					
				M5-2R	21 X 21	ARROW RIGHT					
	25-2	230'SE'+91	LT	R3-8B	36 X 30	LANE DESIGNATION	7.50	1	---	---	
	25-3	232'SE'+55	LT	R1-1F	36 X 36	STOP	9.00	1	---	---	
	25-4	232'SE'+56	RT	R1-1F	36 X 36	STOP	9.00	1	---	---	
	26-1	230'SW'+75	LT	R1-2	36 X 31	YIELD	7.75	1	---	---	
	27-1	233'NW'+10	LT	R1-1F	36 X 36	STOP	9.00	1	---	---	
	27-2	233'NW'+28	RT	R1-1F	36 X 36	STOP	9.00	1	---	---	
	27-3	234'NW'+55	RT	R3-8B	36 X 30	LANE DESIGNATION	7.50	1	---	---	
	27-4	234'NW'+30	RT	J2-2	48 X 57	ROUTE TURN ASSEMBLY	19.00	---	1	---	
				M3-2	24 X 12	EAST					
				M3-4	24 X 12	WEST					
				M1-6	24 X 24	100					
				M1-6	24 X 24	100					
				M5-1L	21 X 21	ARROW LEFT					
				M5-2R	21 X 21	ARROW RIGHT					
						TOTALS	2737.00	217	55	2	

MOVING/REMOVING SIGN ITEMS

CATEGORY	STAGE	SIGN NO.	STATION	LOCATION	SIGN CODE	CODE DESCRIPTION W/ VARIABLE MESSAGE	634.0414 POSTS WOOD 4X4-INCH X 14-FT EACH	638.2102 MOVING SIGNS TYPE II EACH	638.2602 REMOVING SIGNS TYPE II EACH	638.3000 REMOVING SMALL SIGN SUPPORTS EACH	638.4000 MOVING SMALL SIGN SUPPORTS EACH	REMARKS
010	STAGE 1	1-1	141+26	54' RT	R2-1	SPEED LIMIT 40 MPH	---	---	1	1	---	REMOVE AT END OF STAGE
		1-2	141+26	54' RT	R7-1D	NO PARKING ANY TIME DO	---	---	1	---	---	REMOVE AT END OF STAGE
		1-3	141+29	1' RT	R2-1	SPEED LIMIT 40 MPH	1	1	---	---	---	MOVE BEFORE STAGE
		1-3	141+29	1' RT	R2-1	SPEED LIMIT 40 MPH	---	1	---	---	1	MOVE AT END OF STAGE
		1-5	143+67	3' LT	R4-7	KEEP RIGHT	---	---	1	1	---	REMOVE BEFORE STAGE
		1-6	144+67	6' RT	R3-4	NO U TURN SYMBOL	---	---	1	---	---	REMOVE BEFORE STAGE
		1-7	145+12	53' RT	R7-1R	NO PARKING ANY TIME RT	---	---	1	1	---	REMOVE AT END OF STAGE
		2-2	148+26	54' RT	W3-3	SIGNAL AHEAD	---	---	1	1	---	REMOVE AT END OF STAGE
		2-3	148+26	54' RT	R7-1D	NO PARKING ANY TIME DO	---	---	1	---	---	REMOVE AT END OF STAGE
		2-4	148+27	9' RT	W3-3	SIGNAL AHEAD	---	1	---	---	1	MOVE BEFORE STAGE
		2-4	148+27	9' RT	W3-3	SIGNAL AHEAD	---	1	---	---	1	MOVE AT END OF STAGE
		2-7	151+72	53' RT	R7-1D	NO PARKING ANY TIME DO	---	---	1	1	---	REMOVE AT END OF STAGE
		2-8	147+70	0	M1-94A	CALUMET RD 7600 N	2	1	---	---	---	MOVE BEFORE STAGE
		2-8	147+70	0	M1-94A	CALUMET RD 7600 N	---	1	---	---	2	MOVE AT END OF STAGE
		3-2	152+52	5' LT	R4-7	KEEP RIGHT	---	---	1	---	---	REMOVE BEFORE STAGE
		3-5	152+63	52' RT	---	BUS STOP SIGN	---	---	1	---	---	REMOVE AT END OF STAGE
		3-12	153+53	7' RT	R4-7	KEEP RIGHT	---	---	1	---	---	REMOVE BEFORE STAGE
		3-14	154+86	55' RT	R2-1	SPEED LIMIT 40 MPH	---	---	1	1	---	REMOVE AT END OF STAGE
		3-15	154+86	55' RT	R7-1D	NO PARKING ANY TIME DO	---	---	1	---	---	REMOVE AT END OF STAGE
		3-16	154+89	1' RT	R2-1	SPEED LIMIT 40 MPH	1	1	---	---	---	MOVE BEFORE STAGE
		3-16	154+89	1' RT	R2-1	SPEED LIMIT 40 MPH	---	1	---	---	1	MOVE AT END OF STAGE
		3-19	157+50	1' LT	W3-3	SIGNAL AHEAD	---	1	---	---	1	MOVE BEFORE STAGE
		3-19	157+50	1' LT	W3-3	SIGNAL AHEAD	---	---	1	1	---	REMOVE AT END OF STAGE
		4-1	158+05	53' RT	R7-1D	NO PARKING ANY TIME DO	---	---	1	1	---	REMOVE AT END OF STAGE
		4-2	158+28	1' RT	M1-94A	CALUMET RD 7600 N	2	1	---	---	---	MOVE BEFORE STAGE
		4-2	158+28	1' RT	M1-94A	CALUMET RD 7600 N	---	1	---	---	2	MOVE AT END OF STAGE
		4-4	161+60	53' RT	R7-1D	NO PARKING ANY TIME DO	---	---	1	1	---	REMOVE AT END OF STAGE
		5-1	165+01	53' RT	R2-1	SPEED LIMIT 40 MPH	---	---	1	1	---	REMOVE AT END OF STAGE
		5-2	165+01	53' RT	R7-1D	NO PARKING ANY TIME DO	---	---	1	---	---	REMOVE AT END OF STAGE
		5-3	165+07	1' RT	R2-1	SPEED LIMIT 40 MPH	1	1	---	---	---	MOVE BEFORE STAGE
		5-3	165+07	1' RT	R2-1	SPEED LIMIT 40 MPH	---	---	1	1	---	REMOVE AT END OF STAGE
		5-4	165+07	1' RT	R2-1	SPEED LIMIT 40 MPH	1	1	---	---	---	MOVE BEFORE STAGE
		5-4	165+07	1' RT	R2-1	SPEED LIMIT 40 MPH	---	1	---	---	1	MOVE AT END OF STAGE
		5-7	167+22	7' LT	R4-7	KEEP RIGHT	---	---	1	1	---	REMOVE BEFORE STAGE
		5-11	168+40	53' RT	R7-1D	NO PARKING ANY TIME DO	---	---	1	1	---	REMOVE AT END OF STAGE
		5-12	168+50	7' RT	R4-7	KEEP RIGHT	---	---	1	---	---	REMOVE BEFORE STAGE
		6-1	170+16	1' RT	M1-94A	BRADLEY RD 8000 N	2	1	---	---	---	MOVE BEFORE STAGE
		6-1	170+16	1' RT	M1-94A	BRADLEY RD 8000 N	---	1	---	---	2	MOVE AT END OF STAGE
		6-3	171+91	1' LT	R2-1	SPEED LIMIT 40 MPH	1	1	---	---	---	MOVE BEFORE STAGE
		6-3	171+91	1' LT	R2-1	SPEED LIMIT 40 MPH	---	1	---	---	1	MOVE AT END OF STAGE
		6-4	172+01	1' LT	R2-1	SPEED LIMIT 40 MPH	---	1	---	---	1	MOVE AT END OF STAGE
		6-5	172+01	52' RT	R7-1D	NO PARKING ANY TIME DO	---	---	1	---	---	REMOVE AT END OF STAGE
		6-7	173+58	3' LT	R4-7	KEEP RIGHT	---	---	1	---	---	REMOVE BEFORE STAGE
		6-8	173+58	3' LT	R3-4	NO U TURN SYMBOL	---	---	1	---	---	REMOVE BEFORE STAGE
		6-11	173+74	3' LT	---	BUS STOP SIGN	---	---	1	1	---	REMOVE AT END OF STAGE
		6-20	174+67	7' RT	R4-7	KEEP RIGHT	---	---	1	1	---	REMOVE BEFORE STAGE
		6-21	174+67	7' RT	R3-4	NO U TURN SYMBOL	---	---	1	---	---	REMOVE BEFORE STAGE
		6-23	175+36	53' RT	W3-3	SIGNAL AHEAD	---	---	1	1	---	REMOVE AT END OF STAGE
		6-24	175+36	53' RT	R7-1D	NO PARKING ANY TIME DO	---	---	1	---	---	REMOVE AT END OF STAGE
		6-25	175+39	6' RT	W3-3	SIGNAL AHEAD	1	1	---	---	---	MOVE BEFORE STAGE
		6-25	175+39	6' RT	W3-3	SIGNAL AHEAD	---	1	---	---	1	MOVE AT END OF STAGE
		7-1	177+90	6' LT	R2-1	SPEED LIMIT 40 MPH	---	1	---	---	1	MOVE BEFORE STAGE
		7-1	177+90	6' LT	R2-1	SPEED LIMIT 40 MPH	---	---	1	1	---	REMOVE AT END OF STAGE
		7-5	178+76	4' LT	R4-7	KEEP RIGHT	---	---	1	---	---	REMOVE BEFORE STAGE
		7-7	178+79	57' RT	---	BUS STOP SIGN	---	---	1	---	---	REMOVE AT END OF STAGE
		7-11	179+38	71' RT	R4-7	KEEP RIGHT	---	---	1	---	---	REMOVE AT END OF STAGE
		7-17	180+04	51' RT	J4-1	NORTH	1	1	---	---	---	MOVE AT END OF STAGE
						STATE ROUTE MARKER (181)	---	1	---	---	---	MOVE AT END OF STAGE
		7-19	180+06	6' RT	R4-7	KEEP RIGHT	---	---	1	---	---	REMOVE BEFOVE STAGE
		7-20	180+90	52' RT	R2-1	SPEED LIMIT 40 MPH	---	---	1	1	---	REMOVE AT END OF STAGE
		7-21	180+90	52' RT	R7-1D	NO PARKING ANY TIME DO	---	---	1	---	---	REMOVE AT END OF STAGE

CONT. ON NEXT PAGE

MOVING/REMOVING SIGN ITEMS (CONT.)

CATEGORY	STAGE	SIGN NO.	STATION	LOCATION	SIGN CODE	CODE DESCRIPTION W/ VARIABLE MESSAGE	634.0414 POSTS WOOD 4X4-INCH X 14-FT EACH	638.2102 MOVING SIGNS TYPE II EACH	638.2602 REMOVING SIGNS TYPE II EACH	638.3000 REMOVING SMALL SIGN SUPPORTS EACH	638.4000 MOVING SMALL SIGN SUPPORTS EACH	REMARKS
0010	STAGE 1 (CONT.)	7-22	181+17	5' RT	R2-1	SPEED LIMIT 40 MPH	---	1	---	---	1	MOVE BEFORE STAGE
		7-22	181+17	5' RT	R2-1	SPEED LIMIT 40 MPH	---	1	---	---	1	MOVE AT END OF STAGE
		8-2	184+03	52' RT	R7-1D	NO PARKING ANY TIME DO	---	---	1	1	---	REMOVE AT END OF STAGE
		8-3	184+49	1' LT	M2-1	JCT	---	1	---	---	---	MOVE BEFORE STAGE
		8-3	184+49	1' LT	M2-1	JCT	---	1	---	---	---	MOVE AT END OF STAGE
		8-4	184+49	1' LT	M1-94A	BRADLEY RD 8000 N	2	1	---	---	---	MOVE BEFORE STAGE
		8-4	184+49	1' LT	M1-94A	BRADLEY RD 8000 N	2	1	---	---	---	MOVE AT END OF STAGE
		8-5	185+04	8' LT	R3-2	NO LEFT TURN SYMBOL	---	---	1	1	---	REMOVE BEFORE STAGE
		8-6	185+79	4' LT	R4-7	KEEP RIGHT	---	---	1	---	---	REMOVE BEFORE STAGE
		8-8	185+82	57' RT	---	BUS STOP SIGN	---	---	1	---	---	REMOVE AT END OF STAGE
		8-11	186+73	6' RT	R4-7	KEEP RIGHT	---	---	1	---	---	REMOVE BEFORE STAGE
		8-15	187+39	53' RT	R2-1	SPEED LIMIT 40 MPH	---	---	1	1	---	REMOVE AT END OF STAGE
		8-16	187+39	53' RT	R7-1D	NO PARKING ANY TIME DO	---	---	1	---	---	REMOVE AT END OF STAGE
		8-17	187+42	7' RT	R2-1	SPEED LIMIT 40 MPH	1	1	---	---	---	MOVE BEFORE STAGE
		8-17	187+43	7' RT	R2-2	SPEED LIMIT 40 MPH	1	1	---	---	---	MOVE AT END OF STAGE
		9-2	189+81	8' LT	W3-3	SIGNAL AHEAD	---	1	---	---	1	MOVE BEFORE STAGE
		9-2	189+81	8' LT	W3-3	SIGNAL AHEAD	---	1	---	---	1	MOVE AT END OF STAGE
		9-3	190+66	52' RT	R7-1D	NO PARKING ANY TIME DO	---	---	1	1	---	REMOVE AT END OF STAGE
		9-5	191+91	1' RT	W5-52L	CLEARANCE STRIPER DOWN	---	1	---	---	1	MOVE BEFORE STAGE
		9-5	191+91	1' RT	W5-52L	CLEARANCE STRIPER DOWN	---	1	---	---	1	MOVE AT END OF STAGE
		9-6	194+03	4' LT	W5-52L	CLEARANCE STRIPER DOWN	---	1	---	---	1	MOVE BEFORE STAGE
		10-2	194+16	52' RT	R7-1D	NO PARKING ANY TIME DO	---	---	1	1	---	REMOVE AT END OF STAGE
		10-4	195+45	1' LT	W3-3	SIGNAL AHEAD	1	1	---	---	---	MOVE BEFORE STAGE
		10-4	195+45	1' LT	W3-3	SIGNAL AHEAD	---	1	---	---	1	MOVE AT END OF STAGE
		10-6	197+46	52' RT	R7-1D	NO PARKING ANY TIME DO	---	---	1	1	---	REMOVE AT END OF STAGE
		10-8	198+61	52' RT	R2-1	SPEED LIMIT 40 MPH	---	---	1	1	---	REMOVE AT END OF STAGE
		10-9	198+64	2' LT	R2-1	SPEED LIMIT 40 MPH	1	1	---	---	---	MOVE BEFORE STAGE
		10-9	198+64	2' LT	R2-1	SPEED LIMIT 40 MPH	---	1	---	---	1	MOVE AT END OF STAGE
		11-2	200+24	2' LT	W3-3	SIGNAL AHEAD	1	1	---	---	---	MOVE BEFORE STAGE
		11-2	200+24	2' LT	W3-3	SIGNAL AHEAD	---	1	---	---	1	MOVE AT END OF STAGE
		11-3	200+25	53' RT	W3-3	SIGNAL AHEAD	---	---	1	1	---	REMOVE AT END OF STAGE
		11-4	200+25	53' RT	R7-1D	NO PARKING ANY TIME DO	---	---	1	---	---	REMOVE AT END OF STAGE
		11-5	201+84	2' LT	W11-2	PEDESTRIAN CROSSING SYMBOL	1	1	---	---	---	MOVE BEFORE STAGE
		11-5	201+84	2' LT	W11-2	PEDESTRIAN CROSSING SYMBOL	---	1	---	---	1	MOVE AT END OF STAGE
		11-6	203+35	53' RT	R7-1D	NO PARKING ANY TIME DO	---	---	1	1	---	REMOVE AT END OF STAGE
		11-7	203+35	53' RT		BUS STOP SIGN	---	---	1	---	---	REMOVE AT END OF STAGE
		11-8	203+43	1' LT	R2-1	SPEED LIMIT 40 MPH	1	1	---	---	---	MOVE BEFORE STAGE
		11-8	203+43	1' LT	R2-1	SPEED LIMIT 40 MPH	---	1	---	---	1	MOVE AT END OF STAGE
		11-12	205+02	1' LT	W11A-2	PEDESTRIAN CROSSING SYMBOL	1	1	---	---	---	MOVE BEFORE STAGE
		11-14	205+49	5' LT	R4-7	KEEP RIGHT	---	---	1	---	---	REMOVE BEFORE STAGE
		12-5	206+44	52' RT	R7-1D	NO PARKING ANY TIME DO	---	---	1	---	---	REMOVE AT END OF STAGE
		12-7	206+51	6' RT	R4-7	KEEP RIGHT	---	---	1	---	---	REMOVE BEFORE STAGE
		12-8	206+51	6' RT	W11-2	PEDESTRIAN CROSSING SYMBOL	1	1	---	---	---	MOVE BEFORE STAGE
		12-8	206+51	6' RT	W11-2	PEDESTRIAN CROSSING SYMBOL	---	1	---	---	1	MOVE AT END OF STAGE
		12-9	207+86	51' RT	ADOPT	ADOPT A HIGHWAY	---	1	---	---	1	MOVE AT END OF STAGE
		12-10	208+23	1' RT	J1-1	JCT	1	1	---	---	---	MOVE BEFORE STAGE
						STATE ROUTE MARKER (100)	---	1	---	---	---	
		12-10	208+23	1' RT	J1-1	JCT	---	1	---	---	1	MOVE AT END OF STAGE
						STATE ROUTE MARKER (100)	---	1	---	---	---	
		12-11	208+23	1' RT	M1-94A	BROWN DEER RD 8800 N	2	1	---	---	---	MOVE BEFORE STAGE
		12-11	208+23	1' RT	M1-94A	BROWN DEER RD 8800 N	---	1	---	---	2	MOVE AT END OF STAGE
		12-13	211+05	54' RT	R2-1	SPEED LIMIT 45 MPH	---	1	---	---	1	MOVE AT END OF STAGE
		12-14	211+05	54' RT	R7-1D	NO PARKING ANY TIME DO	---	---	1	---	---	REMOVE AT END OF STAGE
		13-1	212+27	53' RT	R3-7R	RIGHT LANE MUST TURN RIGHT	---	1	---	---	1	MOVE AT END OF STAGE
		13-2	212+60	1' RT	W3-3	SIGNAL AHEAD	1	1	---	---	---	MOVE BEFORE STAGE
		13-2	212+60	1' RT	W3-3	SIGNAL AHEAD	---	1	---	---	1	MOVE AT END OF STAGE
		13-3	212+60	1' RT	R4-7	KEEP RIGHT	---	---	1	---	---	REMOVE AT END OF STAGE

CONT. ON NEXT PAGE

MOVING/REMOVING SIGN ITEMS (CONT.)

CATEGORY	STAGE	SIGN NO.	STATION	LOCATION	SIGN CODE	CODE DESCRIPTION W/ VARIABLE MESSAGE	634.0414 POSTS WOOD 4X4-INCH X 14-FT EACH	638.2102 MOVING SIGNS TYPE II EACH	638.2602 REMOVING SIGNS TYPE II EACH	638.3000 REMOVING SMALL SIGN SUPPORTS EACH	638.4000 MOVING SMALL SIGN SUPPORTS EACH	REMARKS
0010	STAGE 1 (CONT.)	13-7	213+26	70' RT	R1-1	STOP	---	1	---	---	1	MOVE AT END OF STAGE
		13-8	214+07	54' RT	J13-1	STATE ROUTE MARKER (100)	---	1	---	---	1	MOVE AT END OF STAGE
						ADVANCE ARROW RT BENT	---	1	---	---	---	
		13-9	214+07	54' RT	R7-1D	NO PARKING ANY TIME DO	---	---	1	---	---	REMOVE AT END OF STAGE
		13-11	214+97	54' RT	R3-7R	RIGHT LANE MUST TURN RIGHT	---	1	---	---	1	MOVE AT END OF STAGE
		13-12	215+88	57' RT	M1-94	MEQUON	---	1	---	---	2	MOVE AT END OF STAGE
						BROWN DEER	---	---	---	---	---	
						MENOMONEE FALLS	---	---	---	---	---	
		13-13	216+55	8' LT	R2-1	SPEED LIMIT 45 MPH	---	1	---	---	1	MOVE BEFORE STAGE
		13-13	216+55	8' LT	R2-1	SPEED LIMIT 45 MPH	---	---	1	1	---	REMOVE AT END OF STAGE
		13-16	217+33	54' RT	J13-1	STATE ROUTE MARKER (100)	---	---	1	1	---	REMOVE AT END OF STAGE
						ADVANCE ARROW RT BENT	---	1	---	---	---	
		13-17	217+33	54' RT	R7-1D	NO PARKING ANY TIME DO	---	---	1	---	---	REMOVE AT END OF STAGE
		13-18	217+38	5' RT	J13-1	STATE ROUTE MARKER (100)	---	1	---	---	1	MOVE BEFORE STAGE
						ADVANCE ARROW RT BENT	---	1	---	---	---	
		13-18	217+38	5' RT	J13-1	STATE ROUTE MARKER (100)	---	1	---	---	1	MOVE AT END OF STAGE
						ADVANCE ARROW RT BENT	---	1	---	---	---	
		14-1	220+49	67' RT	R7-1D	NO PARKING ANY TIME DO	---	---	1	1	---	REMOVE AT END OF STAGE
		26-1	224+30	58' RT	J13-1	STATE ROUTE MARKER (100)	---	1	---	---	1	MOVE AT END OF STAGE
						ARROW TILT RT OR LT	---	1	---	---	---	
		15-4	225+32	53' RT	R2-1	SPEED LIMIT 45 MPH	---	1	---	---	1	MOVE BEFORE STAGE
		15-3	225+33	1' LT	R2-1	SPEED LIMIT 45 MPH	---	---	1	---	---	REMOVE BEFORE STAGE
		15-5	227+48	54' RT	R7-1D	NO PARKING ANY TIME DO	---	---	1	1	---	REMOVE AT END OF STAGE
		26-2	226+15	111' RT	W3-3	SIGNAL AHEAD	---	1	---	---	1	MOVE AT END OF STAGE
		26-3	227+10	113' RT	J3-2	WEST EAST	---	1	---	---	2	MOVE AT END OF STAGE
						STATE ROUTE MARKER (100)	---	1	---	---	---	
						ARROWS	---	1	---	---	---	
		26-6	228+23	111' RT	R5-1A	WRONG WAY RIGHT LANE	---	1	---	---	1	MOVE AT END OF STAGE
		26-4	227+84	103' RT		MENOMONEE FALLS	---	1	---	---	2	MOVE AT END OF STAGE
						BROWN DEER	---	1	---	---	---	
		26-5	227+84	103' RT	R3-8A	LANE DESIGNATION LO RT	---	1	---	---	---	MOVE AT END OF STAGE
		16-2	230+56	53' RT	R7-1D	NO PARKING ANY TIME DO	---	---	1	1	---	REMOVE AT END OF STAGE
		16-4	234+61	51' RT	R7-1D	NO PARKING ANY TIME DO	---	---	1	1	---	REMOVE AT END OF STAGE
		17-1	236+44	6' LT	R2-1	SPEED LIMIT 45 MPH	---	---	1	1	---	REMOVE BEFORE STAGE
		17-3	237+63	53' RT	R7-1D	NO PARKING ANY TIME DO	---	---	1	1	---	REMOVE AT END OF STAGE
		17-5	238+41	54' RT	W4-1	MERGING TRAFFIC SYMBOL	---	1	---	---	1	MOVE AT END OF STAGE
		17-6	240+64	54' RT	W3-3	SIGNALS AHEAD	---	1	---	---	1	MOVE AT END OF STAGE
		17-7	240+64	54' RT	R7-1D	NO PARKING ANY TIME DO	---	---	1	---	---	REMOVE AT END OF STAGE
		17-9	240+67	2' RT	W3-3	SIGNALS AHEAD	1	1	---	---	---	MOVE BEFORE STAGE
		17-9	240+67	2' RT	W3-3	SIGNALS AHEAD	---	1	---	---	1	MOVE AT END OF STAGE
		17-11	241+12	106' RT	W3-3	SIGNALS AHEAD	---	---	1	---	---	REMOVE AT END OF STAGE
		29-2	242+09	87' RT	R1-2	YIELD	---	1	---	---	1	MOVE AT END OF STAGE
		18-1	243+61	71' RT	R7-1D	NO PARKING ANY TIME DO	---	---	1	1	---	REMOVE AT END OF STAGE
		18-3	245+46	18' RT	R3-55L	LEFT TURN LANE W DOWN	---	1	---	---	1	MOVE BEFORE STAGE
		18-3	245+46	18' RT	R3-55L	LEFT TURN LANE W DOWN	---	---	1	1	---	REMOVE AT END OF STAGE
		18-4	246+69	66' RT	R7-1D	NO PARKING ANY TIME DO	---	---	1	1	---	REMOVE AT END OF STAGE
		18-7	247+98	23' RT	R3-55(MOD)	LEFT TURN LANE W DOWN ARROW	---	1	---	---	1	MOVE BEFORE STAGE
		18-7	247+98	23' RT	R3-55(MOD)	LEFT TURN LANE W DOWN ARROW	---	---	1	1	---	REMOVE AT END OF STAGE
		19-2	249+61	10' LT	R10-11B	NO TURN ON RED	1	1	---	---	---	MOVE BEFORE STAGE
		19-2	249+61	10' LT	R10-11B	NO TURN ON RED	---	---	1	1	---	REMOVE AT END OF STAGE
		19-6	250+10	9' LT	R4-7	KEEP RIGHT	---	---	1	---	---	REMOVE BEFORE STAGE
		19-11	250+31	67' RT	---	BUS STOP SIGN	---	---	1	---	---	REMOVE AT END OF STAGE
		19-13	250+59	68' RT	R7-1D	NO PARKING ANY TIME DO	---	---	1	---	---	REMOVE AT END OF STAGE
		19-15	251+04	67' RT	J4-1	NORTH	1	1	---	---	---	MOVE AT END OF STAGE
						STATE ROUTE MARKER (181)	---	1	---	---	---	
		19-16	251+05	14' RT	R4-7	KEEP RIGHT	---	---	1	---	---	REMOVE AT END OF STAGE
		19-20	251+98	65' RT	R2-1	SPEED LIMIT 45 MPH	---	---	1	1	---	REMOVE AT END OF STAGE
		19-21	252+02	18' RT	R2-1	SPEED LIMIT 45 MPH	---	1	---	---	1	MOVE BEFORE STAGE

CONT. ON NEXT PAGE

MOVING/REMOVING SIGN ITEMS (CONT.)

CATEGORY	STAGE	SIGN NO.	STATION	LOCATION	SIGN CODE	CODE DESCRIPTION W/ VARIABLE MESSAGE	634.0414 POSTS WOOD 4X4-INCH X 14-FT EACH	638.2102 MOVING SIGNS TYPE II EACH	638.2602 REMOVING SIGNS TYPE II EACH	638.3000 REMOVING SMALL SIGN SUPPORTS EACH	638.4000 MOVING SMALL SIGN SUPPORTS EACH	REMARKS
0010	STAGE 1 (CONT.)	19-21	252+02	18' RT	R2-1	SPEED LIMIT 45 MPH	---	1	---	---	1	MOVE AT END OF STAGE
		19-22	253+30	4' RT	J1-1	JCT	1	1	---	---	---	MOVE BEFORE STAGE
						STATE ROUTE MARKER (100)	---	1	---	---	---	
		19-22	253+30	4' RT	J1-1	JCT	---	1	---	---	1	MOVE AT END OF STAGE
						STATE ROUTE MARKER (100)	---	1	---	---	---	
		19-23	253+30	4' RT	M1-94A	BROWN DEER RD 8800 N	2	1	---	---	---	MOVE BEFORE STAGE
		19-23	253+30	4' RT	M1-94A	BROWN DEER RD 8800 N	---	1	---	---	2	MOVE AT END OF STAGE
		20-2	256+77	83' RT	R1-2	YIELD	---	---	1	1	---	REMOVE AT END OF STAGE
		20-3	256+78	6' LT	R4-7	KEEP RIGHT	---	---	1	---	---	REMOVE BEFORE STAGE
		20-5	256+92	60' RT	---	BUS STOP SIGN	---	---	1	---	---	REMOVE AT END OF STAGE
		20-8	257+31	73' RT	R4-7	KEEP RIGHT	---	---	1	---	---	REMOVE AT END OF STAGE
		20-12	257+78	72' RT	R7-1D	NO PARKING ANY TIME DO	---	---	1	---	---	REMOVE AT END OF STAGE
		20-15	257+94	7' RT	R4-7	KEEP RIGHT	---	---	1	---	---	REMOVE BEFORE STAGE
		21-3	262+19	51' RT	R7-1D	NO PARKING ANY TIME DO	---	---	1	1	---	REMOVE AT END OF STAGE
		21-4	262+84	1' LT	---	BUS ROUTE 67 SIGN	---	---	1	---	---	REMOVE BEFORE STAGE
		21-9	264+82	0	R4-7	KEEP RIGHT	---	---	1	---	---	REMOVE BEFORE STAGE
		21-10	264+84	54' RT	R7-1D	NO PARKING ANY TIME DO	---	---	1	1	---	REMOVE AT END OF STAGE
		22-1	266+40	47' RT	R2-1	SPEED LIMIT 45 MPH	---	---	1	1	---	REMOVE AT END OF STAGE
		22-4	266+46	1' RT	W3-3	SIGNALS AHEAD	1	1	---	---	---	MOVE BEFORE STAGE
		22-4	266+46	1' RT	W3-3	SIGNALS AHEAD	---	1	---	---	1	MOVE AT END OF STAGE
		22-5	266+46	1' RT	R2-1	SPEED LIMIT 45 MPH	1	1	---	---	---	MOVE BEFORE STAGE
		22-5	266+46	1' RT	R2-1	SPEED LIMIT 45 MPH	---	1	---	---	1	MOVE AT END OF STAGE
		22-6	267+38	53' RT	R7-1D	NO PARKING ANY TIME DO	---	---	1	1	---	REMOVE AT END OF STAGE
		22-7	270+27	2' LT	R4-7	KEEP RIGHT	---	---	1	1	---	REMOVE BEFORE STAGE
		22-9	270+93	52' RT	R7-1D	NO PARKING ANY TIME DO	---	---	1	1	---	REMOVE AT END OF STAGE
		22-11	271+30	1' LT	R2-1	SPEED LIMIT 45 MPH	---	---	1	---	---	REMOVE BEFORE STAGE
		23-2	273+05	1' RT		BUS ROUTE 67 SIGN	---	---	1	1	---	REMOVE BEFORE STAGE
		23-4	274+37	52' RT	R7-1D	NO PARKING ANY TIME DO	---	---	1	1	---	REMOVE AT END OF STAGE
		23-7	275+28	1' LT	R4-7	KEEP RIGHT	---	---	1	1	---	REMOVE BEFORE STAGE
		23-8	277+63	1' RT	R2-1	SPEED LIMIT 45 MPH	1	1	---	---	---	MOVE BEFORE STAGE
		23-8	277+63	1' RT	R2-1	SPEED LIMIT 45 MPH	---	1	---	---	1	MOVE AT END OF STAGE
		24-1	278+00	53' RT	R3-7R	RIGHT LANE MUST TURN RIGHT	---	1	---	---	1	MOVE AT END OF STAGE
		24-2	278+00	53' RT	R7-1D	NO PARKING ANY TIME DO	---	---	1	---	---	REMOVE AT END OF STAGE
		24-3	280+52	52' RT	W3-3	SIGNALS AHEAD	---	---	1	1	---	REMOVE AT END OF STAGE
		24-4	280+52	52' RT	R7-1D	NO PARKING ANY TIME DO	---	---	1	---	---	REMOVE AT END OF STAGE
		24-5	280+84	1' RT	W3-3	SIGNALS AHEAD	1	1	---	---	---	MOVE BEFORE STAGE
		24-5	280+84	1' RT	W3-3	SIGNALS AHEAD	---	1	---	---	1	MOVE AT END OF STAGE
		24-6	282+14	54' RT	M1-94A	COUNTY LINE RD	---	1	---	---	2	MOVE AT END OF STAGE
		24-7	282+28	0		PARKING ORDINANCE	---	1	---	---	1	MOVE BEFORE STAGE
		24-7	282+28	0		PARKING ORDINANCE	---	1	---	---	1	MOVE AT END OF STAGE
		25-1	284+03	7' LT	R2-1	SPEED LIMIT 45 MPH	---	1	---	---	1	MOVE BEFORE STAGE
		25-1	284+03	7' LT	R2-1	SPEED LIMIT 45 MPH	---	1	---	---	1	MOVE AT END OF STAGE
		24-9	283+50	53' RT	R3-7R	RIGHT LANE MUST TURN RIGHT	---	1	---	---	1	MOVE AT END OF STAGE
		24-10	283+50	53' RT	R7-1D	NO PARKING ANY TIME DO	---	---	1	---	---	REMOVE AT END OF STAGE
		27-1			J2-2	WEST EAST	---	2	---	---	2	MOVE AT END OF STAGE
						STATE ROUTE MARKER (100)	---	2	---	---	---	
						ARROWS	---	2	---	---	---	
		27-2			R3-7L	LEFT LANE MUST TURN LEFT	---	---	1	1	---	REMOVE BEFORE STAGE
		28-1	237+97	6' RT	R1-2	YIELD	---	---	1	---	---	REMOVE BEFORE STAGE
SUBTOTAL (STAGE 1)							40	122	104	53	77	

CONT. ON NEXT PAGE

MOVING/REMOVING SIGN ITEMS (CONT.)

CATEGORY	STAGE	SIGN NO.	STATION	LOCATION	SIGN CODE	CODE DESCRIPTION W/ VARIABLE MESSAGE	634.0414 POSTS WOOD 4X4-INCH X 14-FT EACH	638.2102 MOVING SIGNS TYPE II EACH	638.2602 REMOVING SIGNS TYPE II EACH	638.3000 REMOVING SMALL SIGN SUPPORTS EACH	638.4000 MOVING SMALL SIGN SUPPORTS EACH	REMARKS
0010	STAGE 2	1-3	141+29	1' RT	R2-1	SPEED LIMIT 40 MPH	---	---	1	1	---	REMOVE AT END OF STAGE
		1-4	142+63	53' LT	R7-1D	NO PARKING ANY TIME DO	---	---	1	1	---	REMOVE AT END OF STAGE
		1-8	145+82	52' LT	R7-1D	NO PARKING ANY TIME DO	---	---	1	1	---	REMOVE AT END OF STAGE
		2-1	146+90	88' LT	R1-1	STOP	---	---	1	---	---	REMOVE AT END OF STAGE
		2-4	148+27	9' RT	W3-3	SIGNAL AHEAD	---	---	1	1	---	REMOVE AT END OF STAGE
		2-5	150+72	54' LT	R2-1	SPEED LIMIT 40 MPH	---	1	---	---	1	MOVE AT END OF STAGE
		2-6	150+72	54' LT	R7-1D	NO PARKING ANY TIME DO	---	---	1	---	---	REMOVE AT END OF STAGE
		2-8	147+70	0	M1-94A	CALUMET RD 7600 N	---	1	---	---	2	MOVE AT END OF STAGE
		3-6	152+94	64' LT	R4-7	KEEP RIGHT	---	---	1	---	---	REMOVE AT END OF STAGE
		3-7	152+94	64' LT	W5-52L	CLEARANCE STRIPER DOWN	---	---	1	---	1	REMOVE AT END OF STAGE
		3-10	153+45	51' LT	---	BUS STOP SIGN	---	---	1	---	---	REMOVE AT END OF STAGE
		3-13	154+28	53' LT	R7-7L	NO PARKING SYMBOL WITH ARROW	---	---	1	1	---	REMOVE AT END OF STAGE
		3-16	154+89	1' RT	R2-1	SPEED LIMIT 40 MPH	---	---	1	1	---	REMOVE AT END OF STAGE
		3-17	156+54	52' LT	R7-1D	NO PARKING ANY TIME DO	---	---	1	1	---	REMOVE AT END OF STAGE
		3-18	157+41	53' LT	W3-3	SIGNAL AHEAD	---	1	---	---	1	MOVE AT END OF STAGE
		4-2	158+28	1' RT	M1-94A	CALUMET RD 7600 N	---	1	---	---	2	MOVE AT END OF STAGE
		4-3	160+08	53' LT	R7-1D	NO PARKING ANY TIME DO	---	---	1	1	---	REMOVE AT END OF STAGE
		4-5	163+56	52' LT	R7-1D	NO PARKING ANY TIME DO	---	---	1	1	---	REMOVE AT END OF STAGE
		5-4	165+07	1' RT	R2-1	SPEED LIMIT 40 MPH	---	---	1	1	---	REMOVE AT END OF STAGE
		5-5	165+09	53' LT	R2-1	SPEED LIMIT 40 MPH	---	1	---	---	1	MOVE AT END OF STAGE
		5-6	166+72	52' LT	R7-1D	NO PARKING ANY TIME DO	---	---	1	1	---	REMOVE AT END OF STAGE
		5-8	167+49	56' LT	R1-1	STOP	---	---	1	1	---	REMOVE AT END OF STAGE
		5-9	167+97	51' LT	R6-2L	ONE WAY LEFT ARROW	---	---	1	1	---	REMOVE AT END OF STAGE
		5-10	167+97	51' LT	R5-1	DO NOT ENTER	---	---	1	---	---	REMOVE AT END OF STAGE
		6-1	170+16	1' RT	M1-94A	BRADLEY RD 8000 N	---	1	---	---	2	MOVE AT END OF STAGE
		6-2	170+22	52' LT	R7-1D	NO PARKING ANY TIME DO	---	---	1	1	---	REMOVE AT END OF STAGE
		6-3	171+91	1' LT	R2-1	SPEED LIMIT 40 MPH	---	1	---	---	1	MOVE AT END OF STAGE
		6-4	172+01	52' RT	R2-1	SPEED LIMIT 40 MPH	---	---	1	1	---	REMOVE AT END OF STAGE
		6-6	173+40	53' LT	R7-1D	NO PARKING ANY TIME DO	---	---	1	1	---	REMOVE AT END OF STAGE
		6-9	173+74	82' LT	R5-2	NO TRUCK SYMBOL	---	---	1	1	---	REMOVE AT END OF STAGE
		6-10	173+74	82' LT	R5-2A	3 TONS OR OVER	---	---	1	---	---	REMOVE AT END OF STAGE
		6-12	173+85	58' LT	R1-1	STOP	---	---	1	1	---	REMOVE AT END OF STAGE
		6-13	173+85	58' LT	R6-2L	ONE WAY LEFT ARROW	---	---	1	---	---	REMOVE AT END OF STAGE
		6-17	174+35	61' LT	W14-2	NO OUTLET	---	---	1	1	---	REMOVE AT END OF STAGE
		6-19	174+53	52' LT	---	BUS STOP SIGN	---	---	1	1	---	REMOVE AT END OF STAGE
		6-22	175+33	53' LT	---	BUS STOP SIGN	---	---	1	1	---	REMOVE AT END OF STAGE
		6-25	175+39	6' RT	W3-3	SIGNAL AHEAD	---	---	1	1	---	REMOVE AT END OF STAGE
		7-2	177+91	52' LT	R2-1	SPEED LIMIT 40 MPH	---	1	---	---	1	MOVE AT END OF STAGE
		7-3	177+91	52' LT	R7-1D	NO PARKING ANY TIME DO	---	---	1	---	---	REMOVE AT END OF STAGE
		7-6	178+78	53' LT	J4-1	SOUTH	1	1	---	---	---	MOVE AT END OF STAGE
						STATE ROUTE MARKER (181)	---	1	---	---	---	
		7-13	179+47	72' LT	R4-7	KEEP RIGHT	---	---	1	---	---	REMOVE AT END OF STAGE
		7-16	180+02	52' LT	---	BUS STOP SIGN	---	---	1	---	---	REMOVE AT END OF STAGE
		7-17	180+04	51' RT	J4-1	NORTH	---	---	1	1	---	REMOVE AT END OF STAGE
						STATE ROUTE MARKER (181)	---	---	1	---	---	
		7-22	181+17	5' RT	R2-1	SPEED LIMIT 40 MPH	---	---	1	1	---	REMOVE AT END OF STAGE
		8-1	183+38	54' LT	R7-1D	NO PARKING ANY TIME DO	---	---	1	1	---	REMOVE AT END OF STAGE
		8-3	184+49	1' LT	M2-1	JCT	---	1	---	---	---	MOVE AT END OF STAGE
		8-4	184+49	1' LT	M1-94A	BRADLEY RD 8000 N	---	1	---	---	2	MOVE AT END OF STAGE
		8-13	186+79	53' LT	---	BUS STOP SIGN	---	---	1	---	---	REMOVE AT END OF STAGE
		8-17	187+42	7' RT	R2-1	SPEED LIMIT 40 MPH	---	---	1	1	---	REMOVE AT END OF STAGE
		8-18	187+57	53' LT	R7-1D	NO PARKING ANY TIME DO	---	---	1	1	---	REMOVE AT END OF STAGE
		9-1	189+81	53' LT	W3-3	SIGNAL AHEAD	---	1	---	---	1	MOVE AT END OF STAGE
		9-2	189+81	8' LT	W3-3	SIGNAL AHEAD	---	---	1	1	---	REMOVE AT END OF STAGE
		9-4	190+69	54' LT	R7-1D	NO PARKING ANY TIME DO	---	---	1	1	---	REMOVE AT END OF STAGE
		9-5	191+91	1' RT	W5-52L	CLEARANCE STRIPER DOWN	---	---	1	1	---	REMOVE AT END OF STAGE
		9-6	194+03	4' LT	W5-52L	CLEARANCE STRIPER DOWN	---	1	---	---	1	MOVE AT END OF STAGE
		10-3	194+22	52' LT	R7-1D	NO PARKING ANY TIME DO	---	---	1	1	---	REMOVE AT END OF STAGE

CONT. ON NEXT PAGE

MOVING/REMOVING SIGN ITEMS (CONT.)

CATEGORY	STAGE	SIGN NO.	STATION	LOCATION	SIGN CODE	CODE DESCRIPTION W/ VARIABLE MESSAGE	634.0414 POSTS WOOD 4X4-INCH X 14-FT EACH	638.2102 MOVING SIGNS TYPE II EACH	638.2602 REMOVING SIGNS TYPE II EACH	638.3000 REMOVING SMALL SIGN SUPPORTS EACH	638.4000 MOVING SMALL SIGN SUPPORTS EACH	REMARKS
0010	STAGE 2 (CONT.)	10-4	195+45	1' LT	W3-3	SIGNAL AHEAD	---	---	1	1	---	REMOVE AT END OF STAGE
		10-5	195+49	53' LT	W3-3	SIGNAL AHEAD	---	1	---	---	1	MOVE AT END OF STAGE
		10-7	197+55	52' LT	R7-1D	NO PARKING ANY TIME DO	---	---	1	1	---	REMOVE AT END OF STAGE
		10-9	198+64	2' LT	R2-1	SPEED LIMIT 40 MPH	---	---	1	1	---	REMOVE AT END OF STAGE
		11-1	200+24	53' LT	R7-1D	NO PARKING ANY TIME DO	---	---	1	1	---	REMOVE AT END OF STAGE
		11-2	200+24	2' LT	W3-3	SIGNAL AHEAD	---	---	1	1	---	REMOVE AT END OF STAGE
		11-5	201+84	2' LT	W11-2	PEDESTRIAN CROSSING SYMBOL	---	---	1	1	---	REMOVE AT END OF STAGE
		11-8	203+43	1' LT	R2-1	SPEED LIMIT 40 MPH	---	1	---	---	1	MOVE AT END OF STAGE
		11-9	203+47	55' LT	R2-1	SPEED LIMIT 40 MPH	---	---	1	1	---	REMOVE AT END OF STAGE
		11-10	203+47	55' LT	R7-1D	NO PARKING ANY TIME DO	---	---	1	---	---	REMOVE AT END OF STAGE
		11-11	204+62	56' LT	ADOPT	ADOPT A HIGHWAY	---	1	---	---	1	MOVE AT END OF STAGE
		11-12	205+02	1' LT	W11A-2	PEDESTRIAN CROSSING SYMBOL	---	---	1	1	---	REMOVE AT END OF STAGE
		12-2	206+44	51' LT	---	BUS STOP SIGN	---	---	1	---	---	REMOVE AT END OF STAGE
		12-4	206+45	6' RT	W11-2	PEDESTRIAN CROSSING SYMBOL	---	---	1	---	---	REMOVE AT END OF STAGE
		12-8	206+51	6' RT	W11-2	PEDESTRIAN CROSSING SYMBOL	---	1	---	---	1	MOVE AT END OF STAGE
		12-9	207+86	51' RT	ADOPT	ADOPT A HIGHWAY	---	---	1	1	---	REMOVE AT END OF STAGE
		12-10	208+23	1' RT	J1-1	JCT	---	1	---	---	1	MOVE AT END OF STAGE
						STATE ROUTE MARKER (100)	---	1	---	---	---	
		12-11	208+23	1' RT	M1-94A	BROWN DEER RD 8800 N	---	1	---	---	2	MOVE AT END OF STAGE
		12-12	209+80	54' LT	W11-2	PEDESTRIAN CROSSING SYMBOL	---	---	1	1	---	REMOVE AT END OF STAGE
		12-13	211+50	54' RT	R2-1	SPEED LIMIT 45 MPH	---	---	1	1	---	REMOVE AT END OF STAGE
		12-15	211+20	53' LT	J4-1	SOUTH	---	---	1	---	1	REMOVE AT END OF STAGE
						STATE ROUTE MARKER (181)	---	---	1	---	---	
		12-16	211+20	53' LT	R7-1D	NO PARKING ANY TIME DO	---	---	1	---	---	REMOVE AT END OF STAGE
		13-1	212+27	53' RT	R3-7R	RIGHT LANE MUST TURN RIGHT	---	---	1	1	---	REMOVE AT END OF STAGE
		13-2	212+60	1' RT	W3-3	SIGNAL AHEAD	---	1	---	---	1	MOVE AT END OF STAGE
		13-4	212+63	54' LT	W3-3	SIGNAL AHEAD	---	---	1	1	---	REMOVE AT END OF STAGE
		13-7	213+26	70' RT	R1-1	STOP	---	---	1	1	---	REMOVE AT END OF STAGE
		13-8	214+07	54' RT	J13-1	STATE ROUTE MARKER (100)	---	---	1	1	---	REMOVE AT END OF STAGE
						ADVANCE ARROW RT BENT	---	---	1	---	---	
		13-10	214+11	55' LT	R7-1D	NO PARKING ANY TIME DO	---	---	1	1	---	REMOVE AT END OF STAGE
		13-11	214+97	54' RT	R3-7R	RIGHT LANE MUST TURN RIGHT	---	---	1	1	---	REMOVE AT END OF STAGE
		13-12	215+88	57' RT	M1-94	MEQUON	---	---	1	2	---	REMOVE AT END OF STAGE
						BROWN DEER	---	---	---	---	---	
						MENOMONEE FALLS	---	---	---	---	---	
		13-14	216+57	55' LT	R2-1	SPEED LIMIT 45 MPH	---	1	---	---	1	MOVE AT END OF STAGE
		13-15	216+57	55' LT	R7-1D	NO PARKING ANY TIME DO	---	---	1	---	---	REMOVE AT END OF STAGE
		13-18	217+38	5' RT	J13-1	STATE ROUTE MARKER (100)	---	---	1	1	---	REMOVE AT END OF STAGE
						ADVANCE ARROW RT BENT	---	---	1	---	---	
		14-2	221+09	83' LT	R7-1D	NO PARKING ANY TIME DO	---	---	1	---	---	REMOVE AT END OF STAGE
		26-1	224+30	58' RT	J13-1	STATE ROUTE MARKER (100)	---	---	1	1	---	REMOVE AT END OF STAGE
						ARROW TILT RT OR LT	---	---	1	---	---	
		15-1	224+55	54' LT	W4-1	MERGING TRAFFIC SYMBOL	---	1	---	---	1	MOVE AT END OF STAGE
		15-2	224+55	54' LT	R7-1D	NO PARKING ANY TIME DO	---	---	1	---	---	REMOVE AT END OF STAGE
		15-4	225+32	53' RT	R2-1	SPEED LIMIT 45 MPH	---	---	1	1	---	REMOVE AT END OF STAGE
		26-2	226+15	111' RT	W3-3	SIGNAL AHEAD	---	---	1	1	---	REMOVE AT END OF STAGE
		26-3	227+10	113' RT	J3-2	WEST EAST	---	---	1	2	---	REMOVE AT END OF STAGE
						STATE ROUTE MARKER (100)	---	---	1	---	---	
							---	---	1	---	---	
		26-6	228+23	111' RT	R5-1A	WRONG WAY RIGHT LANE	---	---	1	1	---	REMOVE AT END OF STAGE
		15-6	227+57	52' LT	R7-1D	NO PARKING ANY TIME DO	---	---	1	1	---	REMOVE AT END OF STAGE
		26-4	227+84	103' RT		MENOMONEE FALLS	---	---	1	2	---	REMOVE AT END OF STAGE
						BROWN DEER	---	---	---	---	---	
		26-5	227+84	103' RT	R3-8A	LANE DESIGNATION LO RT	---	---	1	---	---	REMOVE AT END OF STAGE
		16-1	230+49	51' LT	R7-1D	NO PARKING ANY TIME DO	---	---	1	1	---	REMOVE AT END OF STAGE
		16-3	234+23	51' LT	W5-52R	CLEARANCE STRIPER DOWN	---	---	1	1	---	REMOVE AT END OF STAGE
		16-5	234+66	49' LT	R7-1D	NO PARKING ANY TIME DO	---	---	1	1	---	REMOVE AT END OF STAGE
		17-2	236+45	53' LT	R2-1	SPEED LIMIT 45 MPH	---	1	---	---	1	MOVE AT END OF STAGE
		17-4	237+67	52' LT	R7-1D	NO PARKING ANY TIME DO	---	---	1	1	---	REMOVE AT END OF STAGE

CONT. ON NEXT PAGE

MOVING/REMOVING SIGN ITEMS (CONT.)

CATEGORY	STAGE	SIGN NO.	STATION	LOCATION	SIGN CODE	CODE DESCRIPTION W/ VARIABLE MESSAGE	634.0414 POSTS WOOD 4X4-INCH X 14-FT EACH	638.2102 MOVING SIGNS TYPE II EACH	638.2602 REMOVING SIGNS TYPE II EACH	638.3000 REMOVING SMALL SIGN SUPPORTS EACH	638.4000 MOVING SMALL SIGN SUPPORTS EACH	REMARKS
0010	STAGE 2 (CONT.)	17-5	238+41	54' RT	W4-1	MERGING TRAFFIC SYMBOL	---	---	1	1	---	REMOVE AT END OF STAGE
		32-1	239+29	118' LT	J3-2	WEST EAST	---	2	---	---	2	MOVE AT END OF STAGE
						STATE ROUTE MARKER (100)	---	2	---	---	---	
						ARROWS	---	2	---	---	---	
		32-2	241+05	94' LT	W3-3	SIGNALS AHEAD	---	1	---	---	1	MOVE AT END OF STAGE
		17-6	240+64	54' RT	W3-3	SIGNALS AHEAD	---	---	1	1	---	REMOVE AT END OF STAGE
		17-8	240+75	51' LT	R7-1D	NO PARKING ANY TIME DO	---	---	1	1	---	REMOVE AT END OF STAGE
		17-10	241+84	57' LT	W12-1D	DOUBLE DOWN ARROW	---	---	1	1	---	REMOVE AT END OF STAGE
		29-2	242+09	87' RT	R1-2	YIELD	---	---	1	1	---	REMOVE AT END OF STAGE
		18-2	243+79	77' LT	R7-1D	NO PARKING ANY TIME DO	---	---	1	1	---	REMOVE AT END OF STAGE
		18-5	247+63	53' LT	J13-1	STATE ROUTE MARKER (100)	---	1	---	---	1	MOVE AT END OF STAGE
						ADVANCE ARROW RT BENT	---	1	---	---	---	
		18-6	247+63	53' LT	R7-1D	NO PARKING ANY TIME DO	---	---	1	---	---	REMOVE AT END OF STAGE
		19-1	248+42	61' LT		WAUWATOSA	---	1	---	---	2	MOVE AT END OF STAGE
						BROWN DEER	---	---	---	---	---	
						MENOMONEE FALLS	---	---	---	---	---	
		19-3	249+87	83' LT	R1-1F	STOP FOLDING	---	---	1	---	---	REMOVE AT END OF STAGE
		19-4	249+87	83' LT	R10-11B	NO TURN ON RED	---	---	1	---	---	REMOVE AT END OF STAGE
		19-7	250+11	53' LT	R3-7R	RIGHT LANE MUST TURN RIGHT	---	---	1	---	---	REMOVE AT END OF STAGE
		19-8	250+11	53' LT	R7-1D	NO PARKING ANY TIME DO	---	---	1	---	---	REMOVE AT END OF STAGE
		19-10	250+23	102' LT	R3-8S	LANE DESIGNATION LO RO	---	---	1	2	---	REMOVE AT END OF STAGE
		19-14	250+63	109' LT	R3-8R	LANE DESIGNATION LO LO	---	---	1	2	---	REMOVE AT END OF STAGE
		19-15	251+04	67' RT	J4-1	NORTH	---	---	1	1	---	REMOVE AT END OF STAGE
						STATE ROUTE MARKER (181)	---	---	1	---	---	
		19-18	251+11	59' LT		BUS STOP SIGN	---	---	1	---	---	REMOVE AT END OF STAGE
		19-19	251+11	59' LT	R1-1F	FOLDING STOP	---	---	1	---	---	REMOVE AT END OF STAGE
		19-21	252+02	18' RT	R2-1	SPEED LIMIT 45 MPH	---	---	1	1	---	REMOVE AT END OF STAGE
		19-22	253+30	4' RT	J1-1	JCT	---	1	---	---	1	MOVE AT END OF STAGE
						STATE ROUTE MARKER (100)	---	1	---	---	---	
		19-23	253+30	4' RT	M1-94A	BROWN DEER RD 8800 N	---	1	---	---	2	MOVE AT END OF STAGE
		19-24	253+59	53' LT	R7-1D	NO PARKING ANY TIME DO	---	---	1	1	---	REMOVE AT END OF STAGE
		20-1	256+76	51' LT	R7-1D	NO PARKING ANY TIME DO	---	---	1	---	---	REMOVE AT END OF STAGE
		20-11	257+41	62' LT	R4-7	KEEP RIGHT	---	---	1	---	---	REMOVE AT END OF STAGE
		21-5	263+74	71' LT	R1-1	STOP	---	---	1	1	---	REMOVE AT END OF STAGE
		21-6	264+07	72' LT	R1-1	STOP	---	---	1	1	---	REMOVE AT END OF STAGE
		21-7	264+14	64' LT	R4-7	KEEP RIGHT	---	---	1	1	---	REMOVE AT END OF STAGE
		22-2	266+46	52' LT	W3-3	SIGNALS AHEAD	---	---	1	1	---	REMOVE AT END OF STAGE
		22-3	266+46	52' LT	R7-1D	NO PARKING ANY TIME DO	---	---	1	---	---	REMOVE AT END OF STAGE
		22-4	266+46	1' RT	W3-3	SIGNALS AHEAD	---	1	---	---	1	MOVE AT END OF STAGE
		22-5	266+46	1' RT	R2-1	SPEED LIMIT 45 MPH	---	---	1	1	---	REMOVE AT END OF STAGE
		22-8	270+86	51' LT	R7-1D	NO PARKING ANY TIME DO	---	---	1	1	---	REMOVE AT END OF STAGE
		22-10	271+34	53' LT	R2-1	SPEED LIMIT 45 MPH	---	---	1	1	---	REMOVE AT END OF STAGE
		22-11	271+30	1' LT	R2-1	SPEED LIMIT 45 MPH	---	1	---	---	1	MOVE AT END OF STAGE
		23-3	273+94	51' LT	R7-1D	NO PARKING ANY TIME DO	---	---	1	1	---	REMOVE AT END OF STAGE
		23-6	274+55	65' LT	R1-1	STOP	---	1	---	---	1	MOVE AT END OF STAGE
		23-8	277+63	1' RT	R2-1	SPEED LIMIT 45 MPH	---	1	---	---	1	MOVE AT END OF STAGE
		23-9	277+72	51' LT	R7-1D	NO PARKING ANY TIME DO	---	---	1	1	---	REMOVE AT END OF STAGE
		24-1	278+00	53' RT	R3-7R	RIGHT LANE MUST TURN RIGHT	---	---	1	1	---	REMOVE AT END OF STAGE
		24-5	280+84	1' RT	W3-3	SIGNALS AHEAD	---	1	---	---	1	MOVE AT END OF STAGE
		24-6	282+14	54' RT	M1-94A	COUNTY LINE RD	---	---	1	2	---	REMOVE AT END OF STAGE
		24-7	282+28	0		PARKING ORDINANCE	---	1	---	---	1	MOVE AT END OF STAGE
		24-9	283+50	53' RT	R3-7R	RIGHT LANE MUST TURN RIGHT	---	---	1	1	---	REMOVE AT END OF STAGE
		27-1	31'SE'+0	24' LT	J2-2	WEST EAST	---	---	2	2	---	REMOVE AT END OF STAGE
						STATE ROUTE MARKER (100)	---	---	2	---	---	
						ARROWS	---	---	2	---	---	
		27-2	32'SE'+0	91' LT	R3-7L	LEFT LANE MUST TURN LEFT	---	---	1	1	---	REMOVE AT END OF STAGE
		27-3	32'SE'+5	23' LT	R1-F1	STOP FOLDING	---	---	1	---	---	REMOVE AT END OF STAGE
		27-4	32'SE'+5	7' RT	R1-F1	STOP FOLDING	---	---	1	---	---	REMOVE AT END OF STAGE
		30-1	230+12	180' LT	R1-2	YIELD	---	---	1	1	---	REMOVE BEFORE STAGE
		31-1	233+19	278' LT	R1-F1	STOP FOLDING	---	---	1	1	---	REMOVE BEFORE STAGE
		31-2	233+25	244' LT	R1-F1	STOP FOLDING	---	---	1	1	---	REMOVE BEFORE STAGE
		31-3	233+69	174' LT	R3-7L	LEFT LANE MUST TURN LEFT	---	---	1	1	---	REMOVE AT END OF STAGE

CONT. ON NEXT PAGE

MOVING/REMOVING SIGN ITEMS (CONT.)

CATEGORY	STAGE	SIGN NO.	STATION	LOCATION	SIGN CODE	CODE DESCRIPTION W/ VARIABLE MESSAGE	634.0414 POSTS WOOD 4X4-INCH X 14-FT EACH	638.2102 MOVING SIGNS TYPE II EACH	638.2602 REMOVING SIGNS TYPE II EACH	638.3000 REMOVING SMALL SIGN SUPPORTS EACH	638.4000 MOVING SMALL SIGN SUPPORTS EACH	REMARKS
0010	STAGE 2 (CONT.)	31-4	23420	210' LT	J2-2	WEST EAST	---	---	1	---	2	MOVE AT END OF STAGE
						STATE ROUTE MARKER (100)	---	---	1	---	---	
						ARROWS	---	---	1	---	---	
		32-1	239+29	118' LT	J3-2	WEST EAST	---	2	---	---	2	MOVE AT END OF STAGE
						STATE ROUTE MARKER (100)	---	2	---	---	---	
						ARROWS	---	2	---	---	---	
		32-2	241+05	94' LT	W3-3	SIGNALS AHEAD	---	1	---	---	1	MOVE AT END OF STAGE
		SUBTOTAL (STAGE 2)					1	51	139	97	48	
	STAGE 3	2-5	150+72	54' LT	R2-1	SPEED LIMIT 40 MPH	---	---	1	1	---	REMOVE AT END OF STAGE
		2-8	147+70	0	M1-94A	CALUMET RD 7600 N	---	1	---	---	2	MOVE AT END OF STAGE
		3-18	157+41	53' LT	W3-3	SIGNAL AHEAD	---	---	1	1	---	REMOVE AT END OF STAGE
		4-2	158+28	1' RT	M1-94A	CALUMET RD 7600 N	---	1	---	---	2	MOVE AT END OF STAGE
		5-5	165+09	53' LT	R2-1	SPEED LIMIT 40 MPH	---	---	1	1	---	REMOVE AT END OF STAGE
		6-1	170+16	1' RT	M1-94A	BRADLEY RD 8000 N	---	1	---	---	2	MOVE AT END OF STAGE
		6-3	171+91	1' LT	R2-1	SPEED LIMIT 40 MPH	---	1	---	---	1	MOVE AT END OF STAGE
		7-2	177+91	52' LT	R2-1	SPEED LIMIT 40 MPH	---	---	1	1	---	REMOVE AT END OF STAGE
		7-6	178+78	53' LT	J4-1	SOUTH	---	---	1	1	---	REMOVE AT END OF STAGE
		8-3	184+49	1' LT	M2-1	JCT	---	1	---	---	---	MOVE AT END OF STAGE
		8-4	184+49	1' LT	M1-94A	BRADLEY RD 8000 N	---	1	---	---	2	MOVE AT END OF STAGE
		9-1	189+81	53' LT	W3-3	SIGNAL AHEAD	---	---	1	1	---	REMOVE AT END OF STAGE
		9-6	194+03	4' LT	W5-52L	CLEARANCE STRIPER DOWN	---	1	---	---	1	MOVE AT END OF STAGE
		10-5	195+49	53' LT	W3-3	SIGNAL AHEAD	---	---	1	1	---	REMOVE AT END OF STAGE
		11-8	203+43	1' LT	R2-1	SPEED LIMIT 40 MPH	---	1	---	---	1	MOVE AT END OF STAGE
		11-11	204+62	56' LT	ADOPT	ADOPT A HIGHWAY	---	---	1	1	---	REMOVE BEFORE STAGE
		12-8	206+51	6' RT	W11-2	PEDESTRIAN CROSSING SYMBOL	---	1	---	---	1	MOVE AT END OF STAGE
		12-10	208+23	1' RT	J1-1	JCT	---	1	---	---	1	MOVE AT END OF STAGE
						STATE ROUTE MARKER (100)	---	---	1	---	---	
		12-11	208+23	1' RT	M1-94A	BROWN DEER RD 8800 N	---	---	1	1	---	REMOVE AT END OF STAGE
						STATE ROUTE MARKER (181)	---	---	1	---	---	
		13-2	212+60	1' RT	W3-3	SIGNAL AHEAD	---	1	---	---	1	MOVE AT END OF STAGE
		13-14	216+57	55' LT	R2-1	SPEED LIMIT 45 MPH	---	---	1	1	---	REMOVE AT END OF STAGE
		15-1	224+55	54' LT	W4-1	MERGING TRAFFIC SYMBOL	---	---	1	1	---	REMOVE AT END OF STAGE
		17-2	236+45	53' LT	R2-1	SPEED LIMIT 45 MPH	---	---	1	1	---	REMOVE AT END OF STAGE
		17-9	240+67	2' RT	W3-3	SIGNALS AHEAD	---	1	---	---	1	MOVE AT END OF STAGE
		18-5	247+63	53' LT	J13-1	STATE ROUTE MARKER (100)	---	---	1	1	---	REMOVE AT END OF STAGE
						ADVANCE ARROW RT BENT	---	---	1	---	---	
		19-1	248+42	61' LT		WAUWATOSA	---	---	1	2	---	REMOVE AT END OF STAGE
						BROWN DEER	---	---	---	---	---	
						MENOMONEE FALLS	---	---	---	---	---	
		19-22	253+30	4' RT	J1-1	JCT	---	1	---	---	1	MOVE AT END OF STAGE
						STATE ROUTE MARKER (100)	---	1	---	---	---	
		19-23	253+30	4' RT	M1-94A	BROWN DEER RD 8800 N	---	1	---	---	2	MOVE AT END OF STAGE
		22-4	266+46	1' RT	W3-3	SIGNALS AHEAD	---	1	---	---	1	MOVE AT END OF STAGE
		22-11	271+30	1' LT	R2-1	SPEED LIMIT 45 MPH	---	1	---	---	1	MOVE AT END OF STAGE
		23-6	274+55	65' LT	R1-1	STOP	---	---	1	1	---	REMOVE AT END OF STAGE
		23-8	277+63	1' RT	R2-1	SPEED LIMIT 45 MPH	---	1	---	---	1	MOVE AT END OF STAGE
		24-5	280+84	1' RT	W3-3	SIGNALS AHEAD	---	1	---	---	1	MOVE AT END OF STAGE
		24-7	282+28	0		PARKING ORDINANCE	---	1	---	---	1	MOVE AT END OF STAGE
		31-4	23420	210' LT	J2-2	WEST EAST	---	---	1	2	---	REMOVE AT END OF STAGE
						STATE ROUTE MARKER (100)	---	---	1	---	---	
						ARROWS	---	---	1	---	---	
		32-1	239+29	118' LT	J3-2	WEST EAST	---	---	2	2	---	REMOVE AT END OF STAGE
						STATE ROUTE MARKER (100)	---	---	2	---	---	
						ARROWS	---	---	2	---	---	
		32-2	241+05	94' LT	W3-3	SIGNALS AHEAD	---	---	1	1	---	REMOVE AT END OF STAGE
		SUBTOTAL (STAGE 3)					1	20	28	21	23	

CONT. ON NEXT PAGE

MOVING/REMOVING SIGN ITEMS (CONT.)

CATEGORY	STAGE	SIGN NO.	STATION	LOCATION	SIGN CODE	CODE DESCRIPTION W/ VARIABLE MESSAGE	634.0414 POSTS WOOD 4X4-INCH X 14-FT EACH	638.2102 MOVING SIGNS TYPE II EACH	638.2602 REMOVING SIGNS TYPE II EACH	638.3000 REMOVING SMALL SIGN SUPPORTS EACH	638.4000 MOVING SMALL SIGN SUPPORTS EACH	REMARKS
0010	STAGE 4	3-1	152+52	5'LT	R1-1F	STOP FOLDING	---	---	1	1	---	REMOVE AT END OF STAGE
		3-3	152+52	70'LT	R1-1F	STOP FOLDING	---	---	1	1	---	REMOVE AT END OF STAGE
		3-4	152+63	52'RT	R1-1F	STOP FOLDING	---	---	1	1	---	REMOVE AT END OF STAGE
		3-8	153+35	76'RT	R1-1F	STOP FOLDING	---	---	1	1	---	REMOVE AT END OF STAGE
		3-9	153+45	51'LT	R1-1F	STOP FOLDING	---	---	1	1	---	REMOVE AT END OF STAGE
		3-11	153+53	7'RT	R1-1F	STOP FOLDING	---	---	1	1	---	REMOVE AT END OF STAGE
		4-2	158+28	1'RT	M1-94A	CALUMET RD 7600 N	---	---	1	2	---	REMOVE AT END OF STAGE
		6-1	170+16	1'RT	M1-94A	BRADLEY RD 8000 N	---	---	1	2	---	REMOVE AT END OF STAGE
		6-3	171+91	1'LT	R2-1	SPEED LIMIT 40 MPH	---	---	1	1	---	REMOVE AT END OF STAGE
		7-4	178+76	4'LT	R1-1F	STOP FOLDING	---	---	1	---	---	REMOVE AT END OF STAGE
		7-8	178+79	57'RT	R1-1F	STOP FOLDING	---	---	1	---	---	REMOVE AT END OF STAGE
		7-9	178+81	73'LT	R1-1F	STOP FOLDING	---	---	1	---	---	REMOVE AT END OF STAGE
		7-10	179+38	71'RT	R1-1F	STOP FOLDING	---	---	1	---	---	REMOVE AT END OF STAGE
		7-12	179+47	72'LT	R1-1F	STOP FOLDING	---	---	1	---	---	REMOVE AT END OF STAGE
		7-14	179+87	71'RT	R1-1F	STOP FOLDING	---	---	1	---	---	REMOVE AT END OF STAGE
		7-15	180+02	52'LT	R1-1F	STOP FOLDING	---	---	1	---	---	REMOVE AT END OF STAGE
		7-18	180+05	6'RT	R1-1F	STOP FOLDING	---	---	1	---	---	REMOVE AT END OF STAGE
		8-3	184+49	1'LT	M2-1	JCT	---	---	1	---	---	REMOVE AT END OF STAGE
		8-4	184+49	1'LT	M1-94A	BRADLEY RD 8000 N	---	---	1	2	---	REMOVE AT END OF STAGE
		8-7	185+79	4'LT	R1-1F	STOP FOLDING	---	---	1	---	---	REMOVE AT END OF STAGE
		8-9	185+82	57'RT	R1-1F	STOP FOLDING	---	---	1	---	---	REMOVE AT END OF STAGE
		8-10	186+08	69'LT	R1-1F	STOP FOLDING	---	---	1	---	---	REMOVE AT END OF STAGE
		8-12	186+73	6'RT	R1-1F	STOP FOLDING	---	---	1	---	---	REMOVE AT END OF STAGE
		8-14	186+79	53'LT	R1-1F	STOP FOLDING	---	---	1	---	---	REMOVE AT END OF STAGE
		9-6	194+03	4'LT	W5-52L	CLEARANCE STRIPER DOWN	---	---	1	1	---	REMOVE AT END OF STAGE
		11-8	203+43	1'LT	R2-1	SPEED LIMIT 40 MPH	---	---	1	1	---	REMOVE AT END OF STAGE
		11-13	205+32	50'RT	R1-1F	STOP FOLDING	---	---	1	---	---	REMOVE AT END OF STAGE
		11-15	205+49	5'LT	R1-1F	STOP FOLDING	---	---	1	---	---	REMOVE AT END OF STAGE
		11-16	205+69	78'LT	R1-1F	STOP FOLDING	---	---	1	---	---	REMOVE AT END OF STAGE
		12-1	206+27	66'RT	R1-1F	STOP FOLDING	---	---	1	---	---	REMOVE AT END OF STAGE
		12-3	206+44	51'LT	R1-1F	STOP FOLDING	---	---	1	---	---	REMOVE AT END OF STAGE
		12-6	206+51	6'RT	R1-1F	STOP FOLDING	---	---	1	---	---	REMOVE AT END OF STAGE
		12-8	206+51	6'RT	W11-2	PEDESTRIAN CROSSING SYMBOL	---	---	1	1	---	REMOVE AT END OF STAGE
		12-10	208+23	1'RT	J4-1	JCT	---	---	1	1	---	REMOVE AT END OF STAGE
						STATE ROUTE MARKER (100)	---	---	1	---	---	REMOVE AT END OF STAGE
		13-2	212+60	1'RT	W3-3	SIGNAL AHEAD	---	---	1	1	---	REMOVE AT END OF STAGE
		17-9	240+67	2'RT	W3-3	SIGNALS AHEAD	---	---	1	1	---	REMOVE AT END OF STAGE
		19-5	250+10	9'LT	R1-1F	STOP FOLDING	---	---	1	---	---	REMOVE AT END OF STAGE
		19-9	250+11	53'LT	R1-1F	STOP FOLDING	---	---	1	---	---	REMOVE AT END OF STAGE
		19-12	250+31	67'RT	R1-1F	STOP FOLDING	---	---	1	---	---	REMOVE AT END OF STAGE
		19-17	251+10	2'RT	R1-1F	STOP FOLDING	---	---	1	---	---	REMOVE AT END OF STAGE
		19-19	251+11	59'LT	R1-1F	STOP FOLDING	---	---	1	---	---	REMOVE AT END OF STAGE
		19-22	253+30	4'RT	J1-1	JCT	---	---	1	1	---	REMOVE AT END OF STAGE
						STATE ROUTE MARKER (100)	---	---	1	---	---	
		19-23	253+30	4'RT	M1-94A	BROWN DEER RD 8800 N	---	---	1	2	---	REMOVE AT END OF STAGE
		20-4	256+78	6'LT	R1-1F	STOP FOLDING	---	---	1	---	---	REMOVE AT END OF STAGE
		20-6	256+92	60'RT	R1-1F	STOP FOLDING	---	---	1	---	---	REMOVE AT END OF STAGE
		20-7	256+94	69'LT	R1-1F	STOP FOLDING	---	---	1	---	---	REMOVE AT END OF STAGE
		20-9	257+31	68'RT	R1-1F	STOP FOLDING	---	---	1	---	---	REMOVE AT END OF STAGE
		20-10	257+41	62'LT	R1-1F	STOP FOLDING	---	---	1	---	---	REMOVE AT END OF STAGE
		20-13	257+80	81'RT	R1-1F	STOP FOLDING	---	---	1	---	---	REMOVE AT END OF STAGE
		20-14	257+94	53'LT	R1-1F	STOP FOLDING	---	---	1	---	---	REMOVE AT END OF STAGE
		20-16	257+94	7'RT	R1-1F	STOP FOLDING	---	---	1	---	---	REMOVE AT END OF STAGE
		22-4	266+46	1'RT	W3-3	SIGNALS AHEAD	---	---	1	1	---	REMOVE AT END OF STAGE
		22-11	271+30	1'LT	R2-1	SPEED LIMIT 45 MPH	---	---	1	1	---	REMOVE AT END OF STAGE
		23-8	277+63	1'RT	R2-1	SPEED LIMIT 45 MPH	---	---	1	1	---	REMOVE AT END OF STAGE
		24-5	280+84	1'RT	W3-3	SIGNALS AHEAD	---	---	1	1	---	REMOVE AT END OF STAGE
		24-7	282+28	0		PARKING ORDINANCE	---	---	1	1	---	REMOVE AT END OF STAGE
SUBTOTAL (STAGE 4)							1	20	87	49	23	
TOTALS							43	213	358	220	171	

OVERHEAD SIGN SUPPORT (S-40-918)

CATEGORY	STATION	LOCATION	641.8100 LS	REMARKS
0010	214+00	RT	1	S-40-918
	TOTAL		1	

FIELD OFFICE TYPE D

CATEGORY	PROJECT	642.5400.01 EACH
0010	2140-08-73	1
	TOTAL	1

TRAFFIC CONTROL SURVEILLANCE AND MAINTENANCE (2140-08-73)

CATEGORY	PROJECT	643.0200.01 DAYS
0010	2140-08-73	229
	TOTAL	229

TRAFFIC CONTROL ITEMS

CATEGORY	STAGE	STATION - STATION	LOCATION	616.0700.S FENCE SAFETY LF*	643.0300 TRAFFIC CONTROL DRUMS DAYS	643.0410 TRAFFIC CONTROL BARRICADES TYPE II DAYS	643.0420 TRAFFIC CONTROL BARRICADES TYPE III DAYS	643.0500 TRAFFIC CONTROL FLEXIBLE TUBULAR MARKER POSTS EACH	643.0600 TRAFFIC CONTROL FLEXIBLE TUBULAR MARKER BASES EACH	643.0705 TRAFFIC CONTROL WARNING LIGHTS TYPE A DAYS	643.0715 TRAFFIC CONTROL WARNING LIGHTS TYPE C DAYS	643.0800 TRAFFIC CONTROL ARROW BOARDS DAYS	643.0900 TRAFFIC CONTROL SIGNS DAYS
0010	STAGE 1	140+00 - 153+00	LT/RT	---	1,617	---	168	32	32	168	294	---	357
		153+00 - 179+50	LT/RT	---	2,541	---	147	72	72	336	---	---	525
		179+50 - 186+30	LT/RT	---	903	---	252	25	25	84	---	---	126
		186+30 - 206+00	LT/RT	---	1,323	---	210	76	76	168	105	---	168
		206+00 - 233+25	LT/RT	---	2,352	---	483	96	96	126	---	---	273
		233+25 - 250+50	LT/RT	---	1,995	---	252	69	69	42	---	---	84
		250+50 - 257+50	LT/RT	---	525	---	21	23	23	84	---	---	105
		257+50 - 274+75	LT/RT	---	1,449	---	42	59	59	252	---	---	420
		274+75 - 281+00	LT/RT	---	1,176	---	42	24	24	84	147	---	126
		SE RAMP	LT/RT	---	546	---	21	---	---	---	---	---	21
		NE RAMP	LT/RT	---	546	---	21	---	---	---	---	---	21
		SW RAMP	LT/RT	---	---	---	21	---	---	---	---	---	---
		NW RAMP	LT/RT	---	168	---	---	---	---	---	---	---	---
		CALUMET	LT/RT	---	378	---	105	---	---	---	---	---	105
		BRADLEY	LT/RT	---	126	---	---	---	---	---	---	---	84
		TOWER	LT/RT	---	---	---	---	---	---	---	---	---	42
		DEAN	LT/RT	---	---	---	---	---	---	---	---	---	84
		NORTHRIDGE	LT/RT	---	126	---	21	---	---	---	126	---	63
		NORTHRIDGE LAKES	LT/RT	---	---	---	---	---	---	---	---	---	84
		UNDISTRIBUTED		---	80	---	---	50	50	---	---	42	---
		SUBTOTAL (STAGE 1)		0	15,851	0	1,806	526	526	1,344	672	42	2,688
	STAGE 2	140+00 - 153+00	LT/RT	138	5,005	---	182	57	57	182	2,457	---	1,274
		153+00 - 179+50	LT/RT	276	5,369	---	---	119	119	---	455	---	1,820
		179+50 - 186+30	LT/RT	138	2,366	---	---	23	23	---	455	---	273
		186+30 - 206+00	LT/RT	---	1,456	---	---	85	85	---	---	---	728
		206+00 - 233+25	LT/RT	---	2,730	---	---	107	107	---	455	---	546
		233+25 - 250+50	LT/RT	---	2,366	---	---	69	69	---	364	---	273
		250+50 - 257+50	LT/RT	---	2,366	---	364	22	22	364	455	---	546
		257+50 - 274+75	LT/RT	---	3,822	---	---	76	76	---	455	---	1,274
		274+75 - 281+00	LT/RT	---	6,188	---	182	17	17	182	2,275	---	728
		SW RAMP	LT/RT	---	2,366	---	---	---	---	---	---	---	---
		NW RAMP	LT/RT	---	1,729	---	---	---	---	---	---	---	---
		BROWN DEER ROAD	LT/RT	---	5,636	---	176	---	---	---	1,760	176	1,556
		UNDISTRIBUTED		---	40	---	---	50	50	---	---	182	---
		SUBTOTAL (STAGE 2)		552	41,439	0	904	625	625	728	9,131	358	9,018
	STAGE 2 (PHASE I)	140+00 - 153+00	LT/RT	---	730	2,701	---	---	---	---	---	---	---
		153+00 - 179+50	LT/RT	---	730	---	---	---	---	---	---	---	---
		179+50 - 186+30	LT/RT	---	730	---	---	---	---	---	---	---	---
		186+30 - 206+00	LT/RT	---	730	---	---	---	---	---	---	---	---
		206+00 - 233+25	LT/RT	---	5,402	---	73	---	---	146	---	---	73
		233+25 - 250+50	LT/RT	---	5,074	---	---	---	---	---	---	---	---
		250+50 - 257+50	LT/RT	---	730	---	---	---	---	---	---	---	---
		257+50 - 274+75	LT/RT	---	730	---	219	---	---	438	---	---	219
		274+75 - 281+00	LT/RT	---	730	---	---	---	---	---	---	---	---
		SE RAMP	LT/RT	---	2,117	---	---	---	---	---	---	---	---

* ADDITIONAL QUANTITIES LISTED ELSEWHERE

CONT. ON NEXT PAGE

TRAFFIC CONTROL ITEMS (CONT.)

CATEGORY	STAGE	STATION - STATION	LOCATION	616.0700.S FENCE SAFETY LF*	643.0300 TRAFFIC CONTROL DRUMS DAYS	643.0410 TRAFFIC CONTROL BARRICADES TYPE II DAYS	643.0420 TRAFFIC CONTROL BARRICADES TYPE III DAYS	643.0500 TRAFFIC CONTROL FLEXIBLE TUBULAR MARKER POSTS EACH	643.0600 TRAFFIC CONTROL FLEXIBLE TUBULAR MARKER BASES EACH	643.0705 TRAFFIC CONTROL WARNING LIGHTS TYPE A DAYS	643.0715 TRAFFIC CONTROL WARNING LIGHTS TYPE C DAYS	643.0800 TRAFFIC CONTROL ARROW BOARDS DAYS	643.0900 TRAFFIC CONTROL SIGNS DAYS
0010	STAGE 2 (PHASE I CON'T	NE RAMP	LT/RT	---	1,971	---	73	---	---	146	---	---	73
		SW RAMP	LT/RT	---	---	---	---	---	---	---	---	---	---
		NW RAMP	LT/RT	---	---	---	---	---	---	---	---	---	---
		CALUMET	LT/RT	---	38	---	219	---	---	438	438	---	511
		BRADLEY	LT/RT	---	19	---	219	---	---	292	---	---	511
		TOWER	LT/RT	---	300	---	---	---	---	---	---	---	---
		DEAN	LT/RT	---	690	---	60	---	---	120	---	---	180
		NORTHRIDGE	LT/RT	---	300	---	---	---	---	---	---	---	---
		NORTHRIDGE LAKES	LT/RT	---	810	---	---	---	---	---	---	---	---
		UNDISTRIBUTED		---	40	---	---	---	---	---	---	---	---
		SUBTOTAL (STAGE 2 PHASE I)		0	22,514	3,344	1,506	643	643	2,223	1,081	643	2,210
	STAGE 2 (PHASE II)	186+30 - 206+00	LT/RT	---	---	---	---	---	---	---	---	---	---
		206+00 - 233+25	LT/RT	---	1,302	---	14	---	---	28	112	---	14
		233+25 - 250+50	LT/RT	---	1,029	---	---	---	---	---	322	---	---
		SE RAMP	LT/RT	---	210	---	---	---	---	---	70	---	---
		NE RAMP	LT/RT	---	392	---	14	---	---	---	84	---	14
		CALUMET	LT/RT	---	2,257	---	183	---	---	366	1,281	---	427
		BRADLEY	LT/RT	---	122	---	305	---	---	610	671	---	549
		DEAN	LT/RT	---	---	---	183	---	---	366	366	---	488
		UNDISTRIBUTED		---	30	---	---	---	---	---	---	---	---
		SUBTOTAL (STAGE 2 PHASE II)		0	5,342	0	699	0	0	1,370	2,906	0	1,492
	STAGE 3	140+00 - 153+00	LT/RT	---	4,469	---	328	56	56	328	984	---	1,394
		153+00 - 179+50	LT/RT	316	4,797	---	---	114	114	---	410	---	902
		179+50 - 186+30	LT/RT	316	1,400	---	1	24	24	---	---	---	411
		186+30 - 206+00	LT/RT	158	1,066	---	---	76	76	---	---	---	328
		206+00 - 233+25	LT/RT	---	4,756	---	---	104	104	---	---	---	738
		233+25 - 250+50	LT/RT	158	2,747	---	---	71	71	---	---	---	82
		250+50 - 257+50	LT/RT	158	328	---	82	26	26	164	328	---	410
		257+50 - 274+75	LT/RT	---	5,576	---	---	---	---	---	---	---	574
		274+75 - 281+00	LT/RT	---	4,756	---	---	---	---	---	2,050	---	410
		BROWN DEER ROAD	LT/RT	---	5,544	---	168	---	---	---	1,680	168	1,484
		UNDISTRIBUTED		---	40	---	---	50	50	---	---	164	---
		SUBTOTAL (STAGE 3)		1,106	35,479	0	579	492	521	492	5,452	332	6,733
	STAGE 3 (PHASE I)	140+00 - 153+00	LT/RT	---	---	---	264	---	---	396	---	---	132
		153+00 - 179+50	LT/RT	---	---	---	264	---	---	528	---	---	264
		179+50 - 186+30	LT/RT	---	528	---	198	---	---	264	---	---	66
		233+25 - 250+50	LT/RT	---	---	---	---	---	---	---	---	---	66
		250+50 - 257+50	LT/RT	---	---	---	132	---	---	132	---	---	132
		257+50 - 274+75	LT/RT	---	---	---	66	---	---	132	---	---	66
		274+75 - 281+00	LT/RT	---	198	---	66	---	---	132	---	---	66
		SW RAMP	LT/RT	---	23	---	---	---	---	---	---	---	---
		NW RAMP	LT/RT	---	1,716	---	---	---	---	---	---	---	---
		CALUMET	LT/RT	---	1,140	---	180	---	---	300	570	---	240
		BRADLEY	LT/RT	---	360	---	90	---	---	---	---	---	120
		DEAN	LT/RT	---	630	---	90	---	---	---	180	---	210
		NORTHRIDGE LAKES	LT/RT	---	210	---	---	---	---	---	---	---	---
		UNDISTRIBUTED		---	20	---	---	---	---	---	---	---	---
		SUBTOTAL (STAGE 3 PHASE I)		0	4,825	0	1,350	0	0	1,884	750	0	1,362
	STAGE 3 (PHASE II)	140+00 - 153+00	LT/RT	---	---	---	16	---	---	32	---	---	16
		153+00 - 179+50	LT/RT	---	---	---	96	---	---	160	---	---	64
		179+50 - 186+30	LT/RT	---	---	---	64	---	---	128	---	---	48
		186+30 - 206+00	LT/RT	---	---	---	32	---	---	64	---	---	16
		233+25 - 250+50	LT/RT	---	---	---	16	---	---	32	---	---	16
		250+50 - 257+50	LT/RT	---	---	---	64	---	---	112	---	---	48
		257+50 - 274+75	LT/RT	---	---	---	16	---	---	32	---	---	16
		274+75 - 281+00	LT/RT	---	96	---	16	---	---	32	---	---	16

* ADDITIONAL QUANTITIES LISTED ELSEWHERE

CONT. ON NEXT PAGE

TRAFFIC CONTROL ITEMS (CONT.)

CATEGORY	STAGE	STATION - STATION	LOCATION	616.0700.S FENCE SAFETY LF*	643.0300 TRAFFIC CONTROL DRUMS DAYS	643.0410 TRAFFIC CONTROL BARRICADES TYPE II DAYS	643.0420 TRAFFIC CONTROL BARRICADES TYPE III DAYS	643.0500 TRAFFIC CONTROL FLEXIBLE TUBULAR MARKER POSTS EACH	643.0600 TRAFFIC CONTROL FLEXIBLE TUBULAR MARKER BASES EACH	643.0705 TRAFFIC CONTROL WARNING LIGHTS TYPE A DAYS	643.0715 TRAFFIC CONTROL WARNING LIGHTS TYPE C DAYS	643.0800 TRAFFIC CONTROL ARROW BOARDS DAYS	643.0900 TRAFFIC CONTROL SIGNS DAYS
0010	STAGE 2 (PHASE I CON'T)	NE RAMP	LT/RT	---	1,971	---	73	---	---	146	---	---	73
		SW RAMP	LT/RT	---	---	---	---	---	---	---	---	---	---
		NW RAMP	LT/RT	---	---	---	---	---	---	---	---	---	---
		CALUMET	LT/RT	---	38	---	219	---	---	438	438	---	511
		BRADLEY	LT/RT	---	19	---	219	---	---	292	---	---	511
		TOWER	LT/RT	---	300	---	---	---	---	---	---	---	---
		DEAN	LT/RT	---	690	---	60	---	---	120	---	---	180
		NORTHRIDGE	LT/RT	---	300	---	---	---	---	---	---	---	---
		NORTHRIDGE LAKES	LT/RT	---	810	---	---	---	---	---	---	---	---
		UNDISTRIBUTED		---	40	---	---	---	---	---	---	---	---
		SUBTOTAL (STAGE 2 PHASE I)		0	21,871	2,701	863	0	0	1,580	438	0	1,567
	STAGE 2 (PHASE II)	186+30 - 206+00	LT/RT	---	---	---	---	---	---	---	---	---	---
		206+00 - 233+25	LT/RT	---	1,302	---	14	---	---	28	112	---	14
		233+25 - 250+50	LT/RT	---	1,029	---	---	---	---	---	322	---	---
		SE RAMP	LT/RT	---	210	---	---	---	---	---	70	---	---
		NE RAMP	LT/RT	---	392	---	14	---	---	---	84	---	14
		CALUMET	LT/RT	---	2,257	---	183	---	---	366	1,281	---	427
		BRADLEY	LT/RT	---	122	---	305	---	---	610	671	---	549
		DEAN	LT/RT	---	---	---	183	---	---	366	366	---	488
		UNDISTRIBUTED		---	30	---	---	---	---	---	---	---	---
		SUBTOTAL (STAGE 2 PHASE II)		0	5,342	0	699	0	0	1,370	2,906	0	1,492
	STAGE 3	140+00 - 153+00	LT/RT	---	4,469	---	328	56	56	328	984	---	1,394
		153+00 - 179+50	LT/RT	316	4,797	---	---	114	114	---	410	---	902
		179+50 - 186+30	LT/RT	316	1,400	---	1	24	24	---	---	---	411
		186+30 - 206+00	LT/RT	158	1,066	---	---	76	76	---	---	---	328
		206+00 - 233+25	LT/RT	---	4,756	---	---	104	104	---	---	---	738
		233+25 - 250+50	LT/RT	158	2,747	---	---	71	71	---	---	---	82
		250+50 - 257+50	LT/RT	158	328	---	82	26	26	164	328	---	410
		257+50 - 274+75	LT/RT	---	5,576	---	---	---	---	---	---	---	574
		274+75 - 281+00	LT/RT	---	4,756	---	---	---	---	---	2,050	---	410
		BROWN DEER ROAD	LT/RT	---	5,544	---	168	---	---	---	1,680	168	1,484
		UNDISTRIBUTED		---	40	---	---	50	50	---	---	164	---
		SUBTOTAL (STAGE 3)		1,106	35,479	0	579	521	521	492	5,452	332	6,733
	STAGE 3 (PHASE I)	140+00 - 153+00	LT/RT	---	---	---	264	---	---	396	---	---	132
		153+00 - 179+50	LT/RT	---	---	---	264	---	---	528	---	---	264
		179+50 - 186+30	LT/RT	---	528	---	198	---	---	264	---	---	66
		233+25 - 250+50	LT/RT	---	---	---	---	---	---	---	---	---	66
		250+50 - 257+50	LT/RT	---	---	---	132	---	---	132	---	---	132
		257+50 - 274+75	LT/RT	---	---	---	66	---	---	132	---	---	66
		274+75 - 281+00	LT/RT	---	198	---	66	---	---	132	---	---	66
		SW RAMP	LT/RT	---	23	---	---	---	---	---	---	---	---
		NW RAMP	LT/RT	---	1,716	---	---	---	---	---	---	---	---
		CALUMET	LT/RT	---	1,140	---	180	---	---	300	570	---	240
		BRADLEY	LT/RT	---	360	---	90	---	---	---	---	---	120
		DEAN	LT/RT	---	630	---	90	---	---	---	180	---	210
		NORTHRIDGE LAKES	LT/RT	---	210	---	---	---	---	---	---	---	---
		UNDISTRIBUTED		---	20	---	---	---	---	---	---	---	---
		SUBTOTAL (STAGE 3 PHASE I)		0	4,825	0	1,350	0	0	1,884	750	0	1,362
	STAGE 3 (PHASE II)	140+00 - 153+00	LT/RT	---	---	---	16	---	---	32	---	---	16
		153+00 - 179+50	LT/RT	---	---	---	96	---	---	160	---	---	64
		179+50 - 186+30	LT/RT	---	---	---	64	---	---	128	---	---	48
		186+30 - 206+00	LT/RT	---	---	---	32	---	---	64	---	---	16
		233+25 - 250+50	LT/RT	---	---	---	16	---	---	32	---	---	16
		250+50 - 257+50	LT/RT	---	---	---	64	---	---	112	---	---	48
		257+50 - 274+75	LT/RT	---	---	---	16	---	---	32	---	---	16
		274+75 - 281+00	LT/RT	---	96	---	16	---	---	32	---	---	16

CONT. ON NEXT PAGE

* ADDITIONAL QUANTITIES LISTED ELSEWHERE

TRAFFIC CONTROL ITEMS (CONT.)

CATEGORY	STAGE	STATION - STATION	LOCATION	616.0700.S FENCE SAFETY LF*	643.0300 TRAFFIC CONTROL DRUMS DAYS	643.0410 TRAFFIC CONTROL BARRICADES TYPE II DAYS	643.0420 TRAFFIC CONTROL BARRICADES TYPE III DAYS	643.0500 TRAFFIC CONTROL FLEXIBLE TUBULAR MARKER POSTS EACH	643.0600 TRAFFIC CONTROL FLEXIBLE TUBULAR MARKER BASES EACH	643.0705 TRAFFIC CONTROL WARNING LIGHTS TYPE A DAYS	643.0715 TRAFFIC CONTROL WARNING LIGHTS TYPE C DAYS	643.0800 TRAFFIC CONTROL ARROW BOARDS DAYS	643.0900 TRAFFIC CONTROL SIGNS DAYS
0010	TAGE 3 (PHASE II CON'T	SW RAMP	LT/RT	---	304	---	16	---	---	32	---	---	16
		NW RAMP	LT/RT	---	176	---	16	---	---	---	64	---	16
		CALUMET	LT/RT	---	1,456	---	104	---	---	104	624	---	468
		BRADLEY	LT/RT	---	676	---	104	---	---	---	---	---	156
		TOWER	LT/RT	---	---	---	52	---	---	---	---	---	52
		DEAN	LT/RT	---	1,040	---	104	---	---	104	---	---	312
		NORTHRIDGE LAKES	LT/RT	---	364	---	---	---	---	104	312	---	---
		UNDISTRIBUTED		---	10	---	---	---	---	---	---	---	---
		SUBTOTAL (STAGE 3 PHASE II)		0	4,765	643	1,359	643	643	1,579	1,643	643	1,903
	STAGE 4	140+00 - 153+00	LT/RT	---	2,380	175	35	---	---	---	490	---	105
		153+00 - 179+50	LT/RT	---	2,905	280	---	---	---	---	---	---	105
		179+50 - 186+30	LT/RT	---	1,103	70	105	---	---	140	---	---	105
		186+30 - 206+00	LT/RT	---	280	---	105	---	---	140	---	---	210
		206+00 - 233+25	LT/RT	---	2,555	---	210	---	---	280	---	---	175
		233+25 - 250+50	LT/RT	---	3,955	---	105	---	---	140	---	---	105
		250+50 - 257+50	LT/RT	---	4,655	70	385	---	---	420	---	---	315
		257+50 - 274+75	LT/RT	---	2,730	210	315	---	---	420	---	---	385
		274+75 - 281+00	LT/RT	---	910	70	105	---	---	140	---	---	105
		LEFT TURN LANE (GLENBROOK)	RT	---	210	35	105	---	---	140	---	---	35
		UNDISTRIBUTED		---	50	---	---	---	---	---	---	70	---
		SUBTOTAL (STAGE 4)		0	21,733	910	1,470	0	0	1,820	490	70	1,645
	STAGE 4 (PHASE I)	140+00 - 153+00	LT/RT	---	112	140	84	---	---	112	---	---	28
		153+00 - 179+50	LT/RT	---	756	224	476	---	---	672	---	---	168
		179+50 - 186+30	LT/RT	---	---	56	84	---	---	112	---	---	28
		186+30 - 206+00	LT/RT	---	---	112	84	---	---	112	---	---	28
		206+00 - 233+25	LT/RT	---	---	84	84	---	---	112	---	---	28
		250+50 - 257+50	LT/RT	---	---	56	168	---	---	224	---	---	56
		257+50 - 274+75	LT/RT	---	56	168	---	---	---	---	---	---	---
		CALUMET	LT/RT	---	306	---	18	---	---	36	126	---	108
		LEFT TURN LANE (CALUMET)	RT	---	108	---	54	---	---	72	---	---	18
		BRADLEY	LT/RT	---	126	---	72	---	---	108	---	---	108
		LEFT TURN LANE (BRADLEY)	RT	---	108	---	54	---	---	72	---	---	18
		DEAN	LT/RT	---	198	---	18	---	---	36	108	---	90
		LEFT TURN LANE (NORTHRIDGE LAKES)	RT	---	108	---	54	---	---	72	---	---	18
		UNDISTRIBUTED		---	20	---	---	---	---	---	---	---	---
		SUBTOTAL (STAGE 4 PHASE I)		0	1,898	840	1,250	0	0	1,740	234	0	696
	STAGE 4 (PHASE II)	140+00 - 153+00	LT/RT	---	70	35	28	---	---	42	---	---	14
		153+00 - 179+50	LT/RT	---	273	56	140	---	---	196	49	---	56
		179+50 - 186+30	LT/RT	---	---	14	28	---	---	42	---	---	14
		186+30 - 206+00	LT/RT	---	---	28	21	---	---	28	---	---	7
		206+00 - 233+25	LT/RT	---	---	21	21	---	---	28	---	---	7
		233+25 - 250+50	LT/RT	---	---	7	---	---	---	---	---	---	---
		250+50 - 257+50	LT/RT	---	---	14	21	---	---	28	---	---	7
		257+50 - 274+75	LT/RT	---	---	42	2	---	---	28	---	---	14
		274+75 - 281+00	LT/RT	---	---	14	---	---	---	---	---	---	---
		SE RAMP	LT/RT	---	---	---	---	---	---	---	---	---	---
		NE RAMP	LT/RT	---	---	---	---	---	---	---	---	---	---
		SW RAMP	LT/RT	---	---	---	---	---	---	---	---	---	---
		NW RAMP	LT/RT	---	---	---	---	---	---	---	---	---	---
		CALUMET	LT/RT	---	170	---	17	---	---	34	170	---	85
		BRADLEY	LT/RT	---	170	---	51	---	---	68	---	---	51
		TOWER	LT/RT	---	---	---	---	---	---	---	---	---	---
		DEAN	LT/RT	---	204	---	17	---	---	34	102	---	85
		LEFT TURN LANE (DEAN)	RT	---	102	17	51	---	---	---	68	---	17
		NORTHRIDGE	LT/RT	---	---	---	---	---	---	---	---	---	---
		NORTHRIDGE LAKES	LT/RT	---	---	---	---	---	---	---	---	---	---
		UNDISTRIBUTED		---	10	---	---	---	---	---	---	---	---
		SUBTOTAL (STAGE 4 PHASE II)		0	999	248	397	0	0	528	389	0	357
		TOTALS		1,658	154,844	5,985	11,320	2,958	2,958	13,708	22,748	2,088	28,104

* ADDITONAL QUANTITIES LISTED ELSEWHERE

TRAFFIC CONTROL ITEMS (CONT.)

CATEGORY	STAGE	STATION - STATION	LOCATION	616.0700.S FENCE SAFETY LF*	643.0300 TRAFFIC CONTROL DRUMS DAYS	643.0410 TRAFFIC CONTROL BARRICADES TYPE II DAYS	643.0420 TRAFFIC CONTROL BARRICADES TYPE III DAYS	643.0500 TRAFFIC CONTROL FLEXIBLE TUBULAR MARKER POSTS EACH	643.0600 TRAFFIC CONTROL FLEXIBLE TUBULAR MARKER BASES EACH	643.0705 TRAFFIC CONTROL WARNING LIGHTS TYPE A DAYS	643.0715 TRAFFIC CONTROL WARNING LIGHTS TYPE C DAYS	643.0800 TRAFFIC CONTROL ARROW BOARDS DAYS	643.0900 TRAFFIC CONTROL SIGNS DAYS
0010	STAGE 3 (PHASE II CON'T)	SW RAMP	LT/RT	---	304	---	16	---	---	32	---	---	16
		NW RAMP	LT/RT	---	176	---	16	---	---	---	64	---	16
		CALUMET	LT/RT	---	1,456	---	104	---	---	104	624	---	468
		BRADLEY	LT/RT	---	676	---	104	---	---	---	---	---	156
		TOWER	LT/RT	---	---	---	52	---	---	104	---	---	52
		DEAN	LT/RT	---	1,040	---	104	---	---	104	312	---	312
		NORTHRIDGE LAKES	LT/RT	---	364	---	---	---	---	---	---	---	---
		UNDISTRIBUTED		---	10	---	---	---	---	---	---	---	---
		SUBTOTAL (STAGE 3 PHASE II)		0	4,122	0	716	0	0	936	1,000	0	1,260
	STAGE 4	140+00 - 153+00	LT/RT	---	2,380	175	35	---	---	---	490	---	105
		153+00 - 179+50	LT/RT	---	2,905	280	---	---	---	---	---	---	105
		179+50 - 186+30	LT/RT	---	1,103	70	105	---	---	140	---	---	105
		186+30 - 206+00	LT/RT	---	280	---	105	---	---	140	---	---	210
		206+00 - 233+25	LT/RT	---	2,555	---	210	---	---	280	---	---	175
		233+25 - 250+50	LT/RT	---	3,955	---	105	---	---	140	---	---	105
		250+50 - 257+50	LT/RT	---	4,655	70	385	---	---	420	---	---	315
		257+50 - 274+75	LT/RT	---	2,730	210	315	---	---	420	---	---	385
		274+75 - 281+00	LT/RT	---	910	70	105	---	---	140	---	---	105
		LEFT TURN LANE (GLENBROOK)	RT	---	210	35	105	---	---	140	---	---	35
		UNDISTRIBUTED		---	50	---	---	---	---	---	---	70	---
		SUBTOTAL (STAGE 4)		0	21,733	910	1,470	0	0	1,820	490	70	1,645
	STAGE 4 (PHASE I)	140+00 - 153+00	LT/RT	---	112	140	84	---	---	112	---	---	28
		153+00 - 179+50	LT/RT	---	756	224	476	---	---	672	---	---	168
		179+50 - 186+30	LT/RT	---	---	56	84	---	---	112	---	---	28
		186+30 - 206+00	LT/RT	---	---	112	84	---	---	112	---	---	28
		206+00 - 233+25	LT/RT	---	---	84	84	---	---	112	---	---	28
		250+50 - 257+50	LT/RT	---	---	56	168	---	---	224	---	---	56
		257+50 - 274+75	LT/RT	---	56	168	---	---	---	---	---	---	---
		CALUMET	LT/RT	---	306	---	18	---	---	36	126	---	108
		LEFT TURN LANE (CALUMET)	RT	---	108	---	54	---	---	72	---	---	18
		BRADLEY	LT/RT	---	126	---	72	---	---	108	---	---	108
		LEFT TURN LANE (BRADLEY)	RT	---	108	---	54	---	---	72	---	---	18
		DEAN	LT/RT	---	198	---	18	---	---	36	108	---	90
		LEFT TURN LANE (NORTHRIDGE LAKES)	RT	---	108	---	54	---	---	72	---		18
		UNDISTRIBUTED		---	20	---	---	---	---	---	---	---	---
		SUBTOTAL (STAGE 4 PHASE I)		0	1,898	840	1,250	0	0	1,740	234	0	696
	STAGE 4 (PHASE II)	140+00 - 153+00	LT/RT	---	70	35	28	---	---	42	---	---	14
		153+00 - 179+50	LT/RT	---	273	56	140	---	---	196	49	---	56
		179+50 - 186+30	LT/RT	---	---	14	28	---	---	42	---	---	14
		186+30 - 206+00	LT/RT	---	---	28	21	---	---	28	---	---	7
		206+00 - 233+25	LT/RT	---	---	21	21	---	---	28	---	---	7
		233+25 - 250+50	LT/RT	---	---	7	---	---	---	---	---	---	---
		250+50 - 257+50	LT/RT	---	---	14	21	---	---	28	---	---	7
		257+50 - 274+75	LT/RT	---	---	42	2	---	---	28	---	---	14
		274+75 - 281+00	LT/RT	---	---	14	---	---	---	---	---	---	---
		SE RAMP	LT/RT	---	---	---	---	---	---	---	---	---	---
		NE RAMP	LT/RT	---	---	---	---	---	---	---	---	---	---
		SW RAMP	LT/RT	---	---	---	---	---	---	---	---	---	---
		NW RAMP	LT/RT	---	---	---	---	---	---	---	---	---	---
		CALUMET	LT/RT	---	170	---	17	---	---	34	170	---	85
		BRADLEY	LT/RT	---	170	---	51	---	---	68	---	---	51
		TOWER	LT/RT	---	---	---	---	---	---	---	---	---	---
		DEAN	LT/RT	---	204	---	17	---	---	34	102	---	85
		LEFT TURN LANE (DEAN)	RT	---	102	17	51	---	---	---	68	---	17
		NORTHRIDGE	LT/RT	---	---	---	---	---	---	---	---	---	---
		NORTHRIDGE LAKES	LT/RT	---	---	---	---	---	---	---	---	---	---
		UNDISTRIBUTED		---	10	---	---	---	---	---	---	---	---
		SUBTOTAL (STAGE 4 PHASE II)		0	999	248	397	0	0	528	389	0	357
		TOTALS		1,658	153,558	4,699	10,034	1,672	1,672	12,422	21,462	802	26,818

* ADDITONAL QUANTITIES LISTED ELSEWHERE

3

TRAFFIC CONTROL COVERING SIGNS

CATEGORY	LOCATION	643.0905.S EACH
0010	UNDISTRIBUTED	20
	TOTAL	20

TRAFFIC CONTROL SIGNS PORTABLE CHANGEABLE MESSAGE

CATEGORY	STAGE	EACH	DURATION	643.1050.S DAYS
0010	STAGE 1	2	7	14
	STAGE 2	2	7	14
	STAGE 3	2	7	14
	STAGE 4	2	7	14
	TRUCK DETOUR	4	173	692
	TOTAL			748

TRAFFIC CONTROL DETOUR SIGNS

CATEGORY	LOCATION	EACH	DURATION	643.3000 DAYS
0010	NORTHBOUND	72	173	12,456
	SOUTHBOUND	90	173	15,570
	TOTAL			28,026

3

PAVEMENT MARKING ITEMS

CATEGORY	STATION - STATION	LOCATION	646.0106 PAVEMENT MARKING EPOXY 4-INCH (WHITE) LF	646.0106 PAVEMENT MARKING EPOXY 4-INCH (YELLOW) LF	646.0871.S PAVEMENT MARKING WET REFLECTIVE TAPE 4-INCH (WHITE) LF	646.0881.S PAVEMENT MARKING GROOVED WET REFLECTIVE TAPE 4-INCH (WHITE) LF	646.0126 PAVEMENT MARKING EPOXY 8-INCH (WHITE) LF	647.0166 PAVEMENT MARKING ARROWS EPOXY TYPE 2 EACH	647.0176 PAVEMENT MARKING ARROWS EPOXY TYPE 3 EACH	647.0356 PAVEMENT MARKING WORDS EPOXY EACH	647.0456 PAVEMENT MARKING CURB EPOXY LF	647.0566 PAVEMENT MARKING STOP LINE EPOXY 18-INCH LF	647.0606 PAVEMENT MARKING ISLAND NOSE EPOXY EACH	647.0726 PAVEMENT MARKING DIAGONAL EPOXY 12-INCH (WHITE) LF	647.0766 PAVEMENT MARKING CROSSWALK EPOXY 6-INCH LF
0010	140+00 - CALUMET	140+00 - 153+00	---	---	1,250	---	1,296	---	---	---	81	46	3	235	172
	CALUMET - BRADLEY	153+00 - 179+50	---	---	2,525	---	1,786	---	---	---	249	86	8	241	336
	BRADLEY - TOWER	179+50 - 186+30	---	---	585	---	569	---	---	---	152	88	4	73	344
	TOWER - DEAN/SERVITE	186+30 - 206+00	---	---	1,870	---	706	---	---	---	91	86	4	101	332
	DEAN/SERVITE - BROWNDEER	206+00 - 233+25	400	---	1,315	439	4,544	---	---	---	114	46	3	1341	182
	BROWNDEER - PRIVATE ROAD	233+25 - 250+50	---	---	554	185	2,826	---	---	---	20	48	1	524	164
	PRIVATE ROAD - NORTHRIDGE LAKE	250+50 - 257+50	---	---	206	69	460	---	---	---	90	71	5	86	294
	NORTHRIDGE LAKES - GLENBROOK	257+50 - 274+75	3,225	---	430	430	1,480	---	---	---	211	44	6	258	---
	GLENBROOK - 284+62	274+75 - 286+00	1,258	---	250	250	435	---	---	---	55	---	1	---	164
	NE RAMP	231+96 'NE' - 244+89 'NE'	1,456	1,093	---	---	90	---	---	---	---	---	---	---	48
	NW RAMP	232+68 'NW' - 247+46 'NW'	1,692	1,136	---	---	151	1	1	1	---	23	---	---	90
	SE RAMP	217+00 'SE' - 233+04 'SE'	1,617	906	---	---	232	1	1	1	---	41	---	---	87
	SW RAMP	217+15 'SW' - 235+08 'SW'	1,700	1,262	---	---	213	---	---	---	---	---	---	---	88
	CALUMET - BRADLEY		---	---	---	---	---	---	---	---	18	57	1	---	234
	BRADLEY		---	---	---	---	---	---	---	---	---	76	2	---	272
	TOWER		---	---	---	---	---	---	---	---	---	24	---	---	164
	DEAN/SERVITE		---	---	---	---	---	---	---	---	---	44	---	---	204
	PRIVATE ROAD (STA. 250+44)		15	---	15	---	60	---	---	---	55	42	4	---	210
	NORTHRIDGE LAKES		---	---	---	---	---	---	---	---	45	69	2	---	306
	BROWNDEER	114+50 'BD' - 128+74 'BD'	125	---	---	---	---	---	---	---	---	---	---	---	---
	TOTALS		11,488	4,397	9,000	1,373	14,848	2	2	2	1,181	891	44	2,859	3,691

REMOVING PAVEMENT MARKINGS

CATEGORY	STAGE	STATION - STATION	LOCATION	646.0600 LF
0010	STAGE 1	140+00 - 144+55	LT	114
		145+55 - 152+68	LT	178
		154+53 - 160+94	LT	160
		161+94 - 168+11	LT	284
		165+55 - 166+41	RT	25
		167+41 - 167+68	RT	13
		169+11 - 173+79	LT	117
		175+68 -178+92	LT	81
		181+00 - 186+09	LT	127
		187+75 - 188+85	LT	28
		186+75 - 205+61	LT	472
		207+43 - 212+41	LT	125
		207+43 - 208+53	LT	28
		213+42 - 218+00	LT	53
		213+42 - 250+14	LT	918
		218+00 - 246+70	LT	2870
		251+35 - 256+70	LT	134
		251+35 - 256+72	LT	134
		257+97 - 263+65	LT	142
		259+70 - 263+53	LT	100
		264+74 - 274+43	LT	242
		264+74 - 274+43	LT	242
		275+18 - 286+60	LT	286
		275+18 - 281+00	LT	146
		284+20 - 286+60	LT	60
		241+57 'NW' - 246+67 'NW	RT	510
		SUBTOTAL (STAGE 1)		7,589

CONT. ABOVE

REMOVING PAVEMENT MARKINGS (CONT.)

CATEGORY	STAGE	STATION - STATION	LOCATION	646.0600 LF
0010	STAGE 2	138+25 - 139+15	RT	23
		160+96 - 161+96	LT	100
		168+11 - 169+11	LT	100
		174+68 - 175+68	LT	100
		185+80 - 186+09	LT	58
		186+75 - 187+75	LT	100
		212+37 - 215+55	LT	80
		BROWN DEER ROAD	LT/RT	125
		SUBTOTAL (STAGE 2)		686
	STAGE 3	138+50 - 139+50	LT	16
	STAGE 4	281+00 - 281+68	RT	25
		TOTAL		8,316

TEMPORARY PAVEMENT MARKING ITEMS

CATEGORY	STAGE	STATION - STATION	LOCATION	649.0100 TEMPORARY PAVEMENT MARKING 4-INCH (WHITE) LF	649.0100 TEMPORARY PAVEMENT MARKING 4-INCH (YELLOW) LF	649.0400 TEMPORARY PAVEMENT MARKING REMOVABLE TAPE 4-INCH (WHITE) LF	649.0400 TEMPORARY PAVEMENT MARKING REMOVABLE TAPE 4-INCH (YELLOW) LF	649.0701 TEMPORARY PAVEMENT MARKING 8-INCH (WHITE) LF	649.0801 TEMPORARY PAVEMENT MARKING REMOVABLE TAPE 8-INCH (WHITE) LF	649.1100 TEMPORARY PAVEMENT MARKING STOP LINE 18-INCH LF	649.1200 TEMPORARY PAVEMENT MARKING STOP LINE REMOVEABLE TAPE 18-INCH LF	649.1700 TEMPORARY PAVEMENT MARKING ARROWS EACH	649.1800 TEMPORARY PAVEMENT MARKING ARROWS REMOVABLE TAPE EACH	649.1900 TEMPORARY PAVEMENT MARKING WORDS EACH	649.2000 TEMPORARY PAVEMENT MARKING WORDS REMOVABLE TAPE EACH
0010	STAGE 1	137+25 - 153+00	LT/RT	---	1,520	---	---	300	---	33	---	1	---	1	---
		153+00 - 179+50	LT/RT	---	3,340	---	---	600	---	134	---	4	---	4	---
		179+50 - 186+30	LT/RT	---	1,220	---	---	200	---	65	---	2	---	2	---
		186+30 - 206+00	LT/RT	550	3,475	---	---	200	---	52	---	2	---	2	---
		206+00 - 233+25	LT/RT	380	4,740	---	---	200	---	21	---	1	---	1	---
		233+25 - 250+50	LT/RT	990	3,380	---	---	---	---	56	---	2	---	2	---
		250+50 - 257+50	LT/RT	---	1,070	---	---	100	---	12	---	1	---	1	---
		257+50 - 274+75	LT/RT	---	2,920	---	---	400	---	---	---	2	---	2	---
		274+75 - 287+00	LT/RT	---	1,160	---	---	---	100	---	---	---	1	---	1
		231+96 'NE' - 244+89 'NE'	LT/RT	---	---	---	---	---	---	---	---	---	---	---	---
		232+68 'NW' - 247+46 'NW'	LT/RT	495		---	---	---	---	---	---	---	---	---	---
		217+00 'SE' - 233+04 'SE'	LT/RT	---	---	---	---	---	---	---	---	---	---	---	---
		217+15 'SW' - 235+08 'SW'	LT/RT	---	---	---	---	---	---	---	---	---	---	---	---
		CALUMET	LT/RT	---	---	---	---	---	---	---	---	---	---	---	---
		BRADLEY	LT/RT	---	---	---	---	---	---	---	---	---	---	---	---
		TOWER	LT/RT	---	---	---	---	---	---	---	---	---	---	---	---
		DEAN/SERVITE	LT/RT	---	---	---	---	---	---	---	---	---	---	---	---
		NORTHRIDGE	LT/RT	---	---	---	---	---	---	11	---	---	---	---	---
		NORTHRIDGE LAKES	LT/RT	---	---	---	---	---	---	---	---	---	---	---	---
		114+50 'BD' - 128+74 'BD'	LT/RT	---	---	---	---	---	---	---	---	---	---	---	---
		SUBTOTAL (STAGE 1)		2,415	22,825	0	0	2,000	100	384	0	15	1	15	1

CONT. ON NEXT PAGE

TEMPORARY PAVEMENT MARKING ITEMS (CONT.)

CATEGORY	STAGE	STATION - STATION	LOCATION	649.0100 TEMPORARY PAVEMENT MARKING 4-INCH (WHITE) LF	649.0100 TEMPORARY PAVEMENT MARKING 4-INCH (YELLOW) LF	649.0400 TEMPORARY PAVEMENT MARKING REMOVABLE TAPE 4-INCH (WHITE) LF	649.0400 TEMPORARY PAVEMENT MARKING REMOVABLE TAPE 4-INCH (YELLOW) LF	649.0701 TEMPORARY PAVEMENT MARKING 8-INCH (WHITE) LF	649.0801 TEMPORARY PAVEMENT MARKING REMOVABLE TAPE 8-INCH (WHITE) LF	649.1100 TEMPORARY PAVEMENT MARKING STOP LINE 18-INCH LF	649.1200 TEMPORARY PAVEMENT MARKING STOP LINE REMOVEABLE TAPE 18-INCH LF	649.1700 TEMPORARY PAVEMENT MARKING ARROWS EACH	649.1800 TEMPORARY PAVEMENT MARKING ARROWS REMOVABLE TAPE EACH	649.1900 TEMPORARY PAVEMENT MARKING WORDS EACH	649.2000 TEMPORARY PAVEMENT MARKING WORDS REMOVABLE TAPE EACH
0010	STAGE 2	137+25 - 153+00	LT/RT	410	---	400	1,110	100	---	30	---	1	---	1	---
		153+00 - 179+50	LT/RT	2,590	1,680	---	---	100	---	30	---	1	---	1	---
		179+50 - 186+30	LT/RT	290	100	---	---	---	---	30	---	1	---	1	---
		186+30 - 206+00	LT/RT	730	510	---	---	200	---	35	---	1	---	1	---
		206+00 - 233+25	LT/RT	1,040	475	1,270	1,200	---	---	---	---	---	---	---	---
		233+25 - 250+50	LT/RT	1,910	335	---	---	100	---	20	---	1	---	1	---
		250+50 - 257+50	LT/RT	175	170	---	---	100	---	---	---	1	---	1	---
		257+50 - 274+75	LT/RT	55	200	---	---	100	---	40	---	1	---	1	---
		274+75 - 287+00	LT/RT	---	105	620	525	---	---	---	---	---	---	---	---
		231+96 'NE' - 244+89 'NE'	LT/RT	693	769	1,076	623	---	---	---	20	---	---	---	---
		232+68 'NW' - 247+46 'NW'	LT/RT	270	205	---	---	---	---	---	---	---	---	---	---
		217+00 'SE' - 233+04 'SE'	LT/RT	1,594	1,516	---	1,571	---	---	---	---	---	---	---	---
		217+15 'SW' - 235+08 'SW'	LT/RT	---	---	---	---	---	---	---	---	---	---	---	---
		CALUMET	LT/RT	25	---	305	2,410	---	---	---	80	---	---	---	---
		BRADLEY	LT/RT	---	---	---	5,110	---	---	---	70	---	---	---	---
		TOWER	LT/RT	---	---	---	---	---	---	---	---	---	---	---	---
		DEAN/SERVITE	LT/RT	---	---	---	860	---	---	---	55	---	---	---	---
		NORTHRIDGE	LT/RT	---	---	---	---	---	---	11	---	---	---	---	---
		NORTHRIDGE LAKES	LT/RT	---	---	---	1,900	---	---	---	65	---	---	---	---
		114+50 'BD' - 128+74 'BD'	LT/RT	---	---	760	---	---	---	---	25	---	---	---	---
		SUBTOTAL (STAGE 2)		9,782	6,065	4,431	15,309	700	0	196	315	7	0	7	0
	STAGE 3	137+25 - 153+00	LT/RT	---	---	790	2,600	---	100	---	30	---	1	---	1
		153+00 - 179+50	LT/RT	---	---	745	5,080	---	200	---	60	---	2	---	2
		179+50 - 186+30	LT/RT	---	---	230	1,160	---	200	---	65	---	2	---	2
		186+30 - 206+00	LT/RT	---	---	55	3,810	---	100	---	40	---	1	---	1
		206+00 - 233+25	LT/RT	---	---	2,380	5,340	---	100	---	20	---	1	---	1
		233+25 - 250+50	LT/RT	495	255	1,810	3,560	---	---	---	---	---	---	---	---
		250+50 - 257+50	LT/RT	---	---	690	1,250	---	105	---	25	---	1	---	1
		257+50 - 274+75	LT/RT	---	---	1,520	3,280	---	200	---	25	---	2	---	2
		274+75 - 287+00	LT/RT	---	---	465	1,620	---	---	---	---	---	---	---	---
		231+96 'NE' - 244+89 'NE'	LT/RT	---	---	---	---	---	---	---	---	---	---	---	---
		232+68 'NW' - 247+46 'NW'	LT/RT	---	---	615	750	---	---	---	---	---	---	---	---
		217+00 'SE' - 233+04 'SE'	LT/RT	---	---	---	---	---	---	---	---	---	---	---	---
		217+15 'SW' - 235+08 'SW'	LT/RT	1,050	1,215	415	---	---	---	---	---	---	---	---	---
		CALUMET	LT/RT	---	---	320	1,800	---	100	---	70	---	---	---	---
		BRADLEY	LT/RT	---	---	---	3,980	---	---	---	65	---	---	---	---
		TOWER	LT/RT	---	---	---	---	---	---	---	---	---	---	---	---
		DEAN/SERVITE	LT/RT	---	---	---	1,090	---	---	---	40	---	---	---	---
		NORTHRIDGE	LT/RT	---	---	---	---	---	---	---	---	---	---	---	---
		NORTHRIDGE LAKES	LT/RT	---	---	---	1,860	---	---	---	55	---	---	---	---
		114+50 'BD' - 128+74 'BD'	LT/RT	---	---	---	---	---	---	---	---	---	---	---	---
		SUBTOTAL (STAGE 3)		1,545	1,470	10,035	37,180	0	1,105	0	495	0	10	0	10

CONT. ON NEXT PAGE

TEMPORARY PAVEMENT MARKING ITEMS (CONT.)

CATEGORY	STAGE	STATION - STATION	LOCATION	649.0100 TEMPORARY PAVEMENT MARKING 4-INCH (WHITE) LF	649.0100 TEMPORARY PAVEMENT MARKING 4-INCH (YELLOW) LF	649.0400 TEMPORARY PAVEMENT MARKING REMOVABLE TAPE 4-INCH (WHITE) LF	649.0400 TEMPORARY PAVEMENT MARKING REMOVABLE TAPE 4-INCH (YELLOW) LF	649.0701 TEMPORARY PAVEMENT MARKING 8-INCH (WHITE) LF	649.0801 TEMPORARY PAVEMENT MARKING REMOVABLE TAPE 8-INCH (WHITE) LF	649.1100 TEMPORARY PAVEMENT MARKING STOP LINE 18-INCH LF	649.1200 TEMPORARY PAVEMENT MARKING STOP LINE REMOVEABLE TAPE 18-INCH LF	649.1700 TEMPORARY PAVEMENT MARKING ARROWS EACH	649.1800 TEMPORARY PAVEMENT MARKING ARROWS REMOVABLE TAPE EACH	649.1900 TEMPORARY PAVEMENT MARKING WORDS EACH	649.2000 TEMPORARY PAVEMENT MARKING WORDS REMOVABLE TAPE EACH
0010	STAGE 4	137+25 - 153+00	LT/RT	---	---	---	---	---	100	---	30	---	1	---	1
		153+00 - 179+50	LT/RT	490	---	---	---	---	200	---	75	---	3	---	3
		179+50 - 186+30	LT/RT	---	---	---	---	---	200	---	65	---	2	---	2
		186+30 - 206+00	LT/RT	---	---	---	---	---	200	---	70	---	2	---	2
		206+00 - 233+25	LT/RT	---	---	---	---	---	100	---	30	---	2	---	2
		233+25 - 250+50	LT/RT	---	---	---	---	---	100	---	---	---	---	---	---
		250+50 - 257+50	LT/RT	---	---	---	---	---	---	---	---	---	---	---	---
		257+50 - 274+75	LT/RT	---	---	---	---	---	350	---	55	---	2	---	2
		274+75 - 287+00	LT/RT	---	---	---	---	---	---	---	---	---	---	---	---
		231+96 'NE' - 244+89 'NE'	LT/RT	---	---	---	---	---	---	---	---	---	---	---	---
		232+68 'NW' - 247+46 'NW'	LT/RT	---	---	---	---	---	---	---	---	---	---	---	---
		217+00 'SE' - 233+04 'SE'	LT/RT	---	---	---	---	---	---	---	---	---	---	---	---
		217+15 'SW' - 235+08 'SW'	LT/RT	---	---	---	---	---	---	---	---	---	---	---	---
		CALUMET	LT/RT	---	---	---	1,340	---	---	---	50	---	---	---	---
		BRADLEY	LT/RT	---	---	---	3,990	---	---	---	70	---	---	---	---
		TOWER	LT/RT	---	---	---	---	---	---	---	---	---	---	---	---
		DEAN/SERVITE	LT/RT	---	---	---	940	---	---	---	50	---	---	---	---
		NORTHRIDGE	LT/RT	---	---	---	---	---	---	---	---	---	---	---	---
		NORTHRIDGE LAKES	LT/RT	---	---	---	1,790	---	---	---	55	---	---	---	---
		114+50 'BD' - 128+74 'BD'	LT/RT	---	---	---	---	---	---	---	---	---	---	---	---
		SUBTOTAL (STAGE 4)		490	0	0	8,060	0	1,250	0	550	0	12	0	12
		TOTALS		14,232	30,360	14,466	60,549	2,700	2,455	580	1,360	22	23	22	23

CONSTRUCTION STAKING SUMMARY

CATEGORY	STATION - STATION	LOCATION	650.4000 CONSTRUCTION STAKING STORM SEWER SYSTEM EACH	650.4500 CONSTRUCTION STAKING SUBGRADE LF	650.5000 CONSTRUCTION STAKING BASE LF	650.9920 CONSTRUCTION STAKING SLOPE STAKES LF
0010	140+00 - 153+00	RT	14	1,300	1,300	1,300
	153+00 - 179+50	RT	30	2,650	2,650	2,650
	179+50 - 186+30	RT	9	680	680	680
	186+30 - 191+58	RT	8	528	528	528
	191+58 - 191+95	RT	---	37	---	37
	193+35 - 193+72	RT	---	37	---	37
	193+72 - 206+00	RT	14	1,228	1,228	1,228
	206+00 - 232+05	RT	19	2,605	2,605	2,605
	232+05 - 232+32	RT	---	27	---	27
	234+22 - 234+49	RT	---	27	---	27
	234+49 - 250+50	RT	13	1,601	1,601	1,601
	250+50 - 257+50	RT	8	700	700	700
	257+50 - 274+75	RT	18	1,725	1,725	1,725
	274+75 - 281+00	RT	6	625	625	625
	140+00 - 153+00	LT	13	1,300	1,300	1,300
	153+00 - 179+50	LT	31	2,650	2,650	2,650
	179+50 - 186+30	LT	5	680	680	680
	186+30 - 191+97	LT	4	567	567	567
	191+97 - 192+34	LT	---	37	---	37
	193+74 - 194+11	LT	---	37	---	37
	194+11 - 206+00	LT	12	1,189	1,189	1,189
	206+00 - 231+86	LT	30	2,586	2,586	2,586

CONT. ABOVE

CONSTRUCTION STAKING SUMMARY (CONT.)

CATEGORY	STATION - STATION	LOCATION	650.4000 CONSTRUCTION STAKING STORM SEWER SYSTEM EACH	650.4500 CONSTRUCTION STAKING SUBGRADE LF	650.5000 CONSTRUCTION STAKING BASE LF	650.9920 CONSTRUCTION STAKING SLOPE STAKES LF
0010	231+86 - 232+13	LT	---	27	---	27
	234+03 - 234+30	LT	---	27	---	27
	234+30 - 250+50	LT	20	1,620	1,620	1,620
	250+50 - 257+50	LT	14	700	700	700
	257+50 - 274+75	LT	23	1,725	1,725	1,725
	274+50 - 281+00	LT	8	625	625	625
	231+96 'NE' - 244+89 'NE'	---	7	1,293	1,293	1,293
	232+68 'NW' - 247+46 'NW'	---	14	1,478	1,478	1,478
	217+00 'SE' - 233+04 'SE'	---	14	1,604	1,604	1,604
	217+15 'SW' - 235+08 'SW'	---	8	1,793	1,793	1,793
	10+86 'C' - 11+54 'C'	---	---	68	68	68
	10+46 'C1' - 11+30 'C1'	---	---	84	84	84
	10+58 'L' - 11+54 'L'	---	---	96	96	96
	8+49 'F' - 9+85 'F'	---	---	136	136	136
	10+75 'B' - 11+54 'B'	---	---	79	79	79
	10+46 'B1' - 11+20 'B1'	---	---	74	74	74
	10+85 'T' - 11+54 'T'	---	---	69	69	69
	10+85 'D' - 11+52 'D'	---	---	67	67	67
	12+47 'D' - 13+20 'D'	---	---	73	73	73
	10+43 'N' - 11+63 'N'	---	---	120	120	120
	10+85 'NL' - 11+58 'NL'	---	---	73	73	73
	10+41 'NL1' - 11+20 'NL1'	---	---	79	79	79
	TOTALS		342	34,726	34,470	34,726

CONSTRUCTION STAKING SUPPLEMENTAL CONTROL (2140-08-73)

CATEGORY	PROJECT	650.9910 CONSTRUCTION STAKING SUPPLEMENTAL CONTROL LS
0010	2140-08-73	1

CONSTRUCTION STAKING CURB RAMPS

CATEGORY	LOCATION	SPV.0060.13 EACH
0010	CALUMET RD. - SW QUAD.	1
	CALUMET RD. - NW QUAD.	1
	CALUMET RD. - SE QUAD.	1
	CALUMET RD. - NE QUAD.	1
	LOLITA AVE. - SW QUAD.	1
	LOLITA AVE. - NW QUAD.	1
	BRADLEY RD. - SW QUAD.	1
	BRADLEY RD. - NW QUAD.	1
	BRADLEY RD. - NE QUAD.	1
	BRADLEY RD. - SE QUAD.	1
	TOWER AVE. - SW QUAD.	1
	TOWER AVE. - NW QUAD.	1
	SERVITE DR. - SW QUAD.	1
	SERVITE DR. - NW QUAD.	1
	DEAN RD. - NE QUAD.	1
	DEAN RD. - SE QUAD.	1
	PRIVATE RD. (STA. 250+44 LT) - SW QUAD.	1
	PRIVATE RD. (STA. 250+44 LT) - NW QUAD.	1
	PRIVATE RD. (STA. 257+36 LT) - SW QUAD.	1
	PRIVATE RD. (STA. 257+36 LT) - NW QUAD.	1
	NORTHRIDGE LAKES BLVD. - NE QUAD.	1
	NORTHRIDGE LAKES BLVD. - SE QUAD.	1
	PRIVATE RD. (STA. 264+03 LT) - SW QUAD.	1
	PRIVATE RD. (STA. 264+03 LT) - NW QUAD.	1
	GLENBROOK RD. - SW QUAD.	1
	GLENBROOK RD. - NW QUAD.	1
	TOTAL	26

CONSTRUCTION STAKING ELECTRICAL INSTALLATIONS (2140-08-73)

CATEGORY	PROJECT	650.8500.01 LS
0010	2140-08-73	1

STREET LIGHTING CONDUIT

CATEGORY	652.0220 CONDUIT RIGID NONMETALLIC SCHEDULE 40 1 1/2-INCH LF	652.0230 CONDUIT RIGID NONMETALLIC SCHEDULE 40 2 1/2-INCH LF
0080	115	28,000

SUMMARY OF STATE FURNISHED MATERIALS

SPV.0105.11 TRAFFIC SIGNALS AND INTERSECTION LIGHTING, CALUMET ROAD
1 - LUMP SUM

QUANT. EACH	DESCRIPTION
6	PEDESTAL BASES
7	TRANSFORMER BASES, STANDARD, 11 1/2" BOLT CIRCLE
3	POLES, TYPE 2
1	POLES, TYPE 3
3	POLES, TYPE 4
4	TRAFFIC SIGNAL STANDARDS, ALUMINUM, 13'
2	TRAFFIC SIGNAL STANDARDS, ALUMINUM, 15'
1	TROMBONE ARMS, 15'
3	TROMBONE ARMS, 20'
8	TRAFFIC SIGNAL FACES, 3-12" VERTICAL, LED MODULES
4	TRAFFIC SIGNAL FACES, 5-12" VERTICAL, LED MODULES
4	TRAFFIC SIGNAL FACES, 3-12" HORIZONTAL, LED MODULES
12	BACKPLATES, 3 SECTION, 12" SIGNAL FACES
4	BACKPLATES, 5 SECTION, 12" SIGNAL FACES
8	PEDESTRIAN SIGNAL FACES, 12", LED MODULES
10	PEDESTRIAN PUSH BUTTONS
1	TRAFFIC SIGNAL MOUNTING HARDWARE, STH 181 (N 76TH ST) AND CALUMET ROAD
1	LUMINAIRES, UTILITY, 150 W
6	LUMINAIRES, UTILITY, 250 W
7	LUMINAIRE ARMS, SINGLE MEMBER, 4" CLAMP, 6'

NOTE: THIS TABLE IS FOR INFORMATION ONLY

PEDESTAL BASES*
TRANSFORMER BASES, BREAKAWAY, 11 1/2 INCH BOLT CIRCLE*
POLES, TYPE 2 - ALUMINUM*
POLES, TYPE 3 *
POLES, TYPE 4 *
TRAFFIC SIGNAL STANDARDS, ALUMINUM, 13-FOOT*
TRAFFIC SIGNAL STANDARDS, ALUMINUM, 15-FOOT*
TRAFFIC SIGNAL STANDARDS, ALUMINUM, 3.5-FOOT*
TROMBONE ARMS, 15-FOOT*
TROMBONE ARMS, 20-FOOT*
LUMINAIRES, UTILITY, 150 W*
LUMINAIRES, UTILITY, 250 W*
LUMINAIRE ARMS, SINGLE MEMBER, 4-INCH CLAMP, 6-FOOT*
PEDESTRIAN PUSH BUTTONS*

SIG. BASE NO.	PED. BASE EACH**	TRANS. BASE EACH**	POLE TYPE 2 EACH**	POLE TYPE 3 EACH**	POLE TYPE 4 EACH**	13-FOOT STAND. EACH**	15-FOOT STAND. EACH**	15-FOOT TROMB. EACH**	20-FOOT TROMB. EACH**	LUMIN. 150 W EACH**	LUMIN. 250 W EACH**	ARM 6-FOOT EACH**	PUSH BUTTON EACH**
SB1		1.0		1.0				1.0		1.0		1.0	1.0
SB2	1.0					1.0							1.0
SB3		1.0			1.0						2.0	2.0	1.0
SB4	1.0						1.0						
SB5		1.0	1.0						1.0				1.0
SB6	1.0					1.0							1.0
SB7		1.0			1.0						2.0	2.0	
SB8		1.0	1.0						1.0				1.0
SB9	1.0					1.0							1.0
SB10		1.0			1.0						2.0	2.0	1.0
SB11	1.0						1.0						
SB12		1.0	1.0						1.0				1.0
SB13	1.0					1.0							1.0
TOTALS	6.0	7.0	3.0	1.0	3.0	4.0	2.0	1.0	3.0	1.0	6.0	7.0	10.0

* INCIDENTAL TO ITEM, "TRAFFIC SIGNALS AND INTERSECTION LIGHTING, CALUMET ROAD"
** ADDITIONAL QUANTITIES LISTED ELSEWHERE

NOTE: THIS TABLE IS FOR INFORMATION ONLY

TRAFFIC SIGNAL FACES, 3-12 INCH VERTICAL, LED MODULES*
TRAFFIC SIGNAL FACES, 5-12 INCH VERTICAL, LED MODULES*
TRAFFIC SIGNAL FACES, 3-12 INCH HORIZONTAL, LED MODULES*
BACKPLATES, 3 SECTION, 12-INCH SIGNAL FACES*
BACKPLATES, 5 SECTION, 12-INCH SIGNAL FACES*
COUNTDOWN PEDESTRIAN SIGNAL FACES, 12-INCH, LED MODULES*

SIG. HEAD NO.	SIG. BASE NO.	3-12" VERT. EACH**	5-12" VERT. EACH**	3-12" HORZ. EACH**	BCKPLT 3-SEC. EACH**	BCKPLT 5-SEC. EACH**	PED. FACE EACH**
1	SB2	1.0			1.0		
2	SB11	1.0			1.0		
3	SB12			1.0	1.0		
4	SB4		1.0			1.0	
5	SB10		1.0			1.0	
6	SB9	1.0			1.0		
7	SB4	1.0			1.0		
8	SB5			1.0	1.0		
9	SB11		1.0			1.0	
10	SB3		1.0			1.0	
11	SB13	1.0			1.0		
12	SB7	1.0			1.0		
13	SB8			1.0	1.0		
14	SB6	1.0			1.0		
15	SB13	1.0			1.0		
16	SB1			1.0	1.0		
17	SB2						1.0
18	SB5						1.0
19	SB6						1.0
20	SB8						1.0
21	SB9						1.0
22	SB12						1.0
23	SB13						1.0
24	SB1						1.0
TOTALS		8.0	4.0	4.0	12.0	4.0	8.0

* INCIDENTAL TO ITEM, "TRAFFIC SIGNALS AND INTERSECTION LIGHTING, CALUMET ROAD"
** ADDITIONAL QUANTITIES LISTED ELSEWHERE

STH 181 & CALUMET ROAD
PAGE 1 OF 4

LOC.	TO	LOC.	652.0225 CONDUIT RIGID NONMETALLIC SCHEDULE 40 2-INCH L.F.*	652.0235 CONDUIT RIGID NONMETALLIC SCHEDULE 40 3-INCH L.F.*
CB1	TO	PB1		21.00
PB1	TO	PB2	225.00	
PB1	TO	PB3		114.00
PB3	TO	SB1	24.00	
PB3	TO	PB4		176.00
PB4	TO	SB2	27.00	
PB4	TO	PB5	268.00	
PB4	TO	PB6		86.00
PB6	TO	SB3	21.00	
PB6	TO	PB7		36.00
PB7	TO	SB4	9.00	
PB7	TO	PB8		86.00
PB8	TO	SB5	8.00	
PB8	TO	PB9		66.00
PB9	TO	SB6	12.00	
PB9	TO	PB10	14.00	
PB10	TO	PB11	226.00	
PB9	TO	PB12		84.00
PB12	TO	SB7	6.00	
PB12	TO	PB13		62.00
PB13	TO	SB8	14.00	
PB13	TO	PB14		112.00
PB14	TO	SB9	18.00	
PB14	TO	PB15	276.00	
PB14	TO	PB16		84.00
PB16	TO	SB10	20.00	
PB16	TO	PB17		36.00
PB17	TO	SB11	10.00	
PB17	TO	PB18		84.00
PB18	TO	SB12	20.00	
PB18	TO	PB19		118.00
PB19	TO	SB13	11.00	
PB19	TO	CB1	0.00	27.00
		TOTALS	1209.0	1192.0

* ADDITIONAL QUANTITIES LISTED ELSEWHERE

PULL BOX NO.	LOCATION*		653.0135 PULL BOXES STEEL 24X36-INCH EACH**	653.0140 PULL BOXES STEEL 24X42-INCH EACH**
PB1	153+37.01	100.79' RT		1.0
PB2	13+25.79 'C1'	27.02' LT	1.0	
PB3	152+80.31	101.26' RT		1.0
PB4	152+29.58	51.88' RT		1.0
PB5	149+61.48	51.37' RT	1.0	
PB6	152+28.96	8.98' RT		1.0
PB7	152+28.69	9.08' LT		1.0
PB8	152+28.07	51.61' LT		1.0
PB9	152+51.83	74.34' LT		1.0
PB10	152+51.95	88.72' LT	1.0	
PB11	8+84.93	24.93' RT	1.0	
PB12	152+94.25	74.89' LT		1.0
PB13	153+25.14	75.25' LT		1.0
PB14	153+75.33	50.79' LT		1.0
PB15	156+50.74	51.07' LT	1.0	
PB16	153+74.77	8.92' LT		1.0
PB17	153+75.01	9.16' RT		1.0
PB18	153+75.33	51.41' RT		1.0
PB19	153+36.84	85.59' RT	1.0	
		TOTALS	6.0	13.0

* FINAL LOCATION TO BE DETERMINED BY THE ENGINEER IN THE FIELD.
** ADDITIONAL QUANTITIES LISTED ELSEWHERE

SIGNAL BASE NO.	LOCATION*		654.0101 CONCRETE BASES TYPE 1 EACH**	654.0102 CONCRETE BASES TYPE 2 EACH**
SB1	152+77.83	73.89' RT		1.0
SB2	152+56.12	51.07' RT	1.0	
SB3	152+49.52	8.99' RT		1.0
SB4	152+34.34	9.01' LT	1.0	
SB5	152+36.34	52.38' LT		1.0
SB6	152+49.38	63.81' LT	1.0	
SB7	152+94.27	80.74' LT		1.0
SB8	153+32.52	63.75' LT		1.0
SB9	153+56.44	50.59' LT	1.0	
SB10	153+55.06	9.18' LT		1.0
SB11	153+66.28	8.96' RT	1.0	
SB12	153+55.74	52.35' RT		1.0
SB13	153+36.96	72.89' RT	1.0	
		TOTALS	6.0	7.0

* FINAL LOCATION TO BE DETERMINED BY THE ENGINEER IN THE FIELD.
** ADDITIONAL QUANTITIES LISTED ELSEWHERE

654.0217 CONCRETE CONTROL CABINET BASES, TYPE 9, SPECIAL
656.0200.01 ELECTRICAL SERVICE, METER BREAKER PEDESTAL,
STH 181 (N 76TH ST) & CALUMET ROAD

LOCATION*		BASE EACH**	METER L.S.
153+36.80	94.26' RT	1.0	1.0

* FINAL LOCATION TO BE DETERMINED BY THE ENGINEER IN THE FIELD.

** ADDITIONAL QUANTITES LISTED ELSEWHERE

LOC.	TO	LOC.	655.0305 CABLE TYPE UF 2-12 AWG GROUNDED L.F.*	655.0610 ELECTRICAL WIRE LIGHTING 12 AWG L.F.*
CB1	TO	SB1	105	---
SB1	TO	POLE	---	117
SB1	TO	SB3	194	---
SB3	TO	POLE	---	288
CB1	TO	SB10	178	---
SB10	TO	POLE	---	288
SB10	TO	SB7	179	---
SB7	TO	POLE	---	288
		TOTALS	656	981

* ADDITIONAL QUANTITIES LISTED ELSEWHERE

STH 181 & CALUMET ROAD
PAGE 2 OF 4

FILE NAME : s:\@sai\051--100\089\099\micros\design\0873\030301_mq.dgn PLOT DATE : 7/30/2007 PLOT BY : $$...plotuser...$$ PLOT NAME : PLOT SCALE : $$.....plotscale.....$$ WISDOT/CADDS SHEET 43

LOC.	TO	LOC.	655.0230 CABLE TRAFFIC SIGNAL 5-14 AWG L.F.*	655.0240 CABLE TRAFFIC SIGNAL 7-14 AWG L.F.*	655.0260 CABLE TRAFFIC SIGNAL 12-14 AWG L.F.*
CB1	TO	SB1	---	---	105
SB1	TO	16	45	---	---
SB1	TO	24	12	---	---
SB1	TO	PED	6	---	---
CB1	TO	SB2	---	---	202
SB2	TO	1	19	---	---
SB2	TO	17	12	---	---
SB2	TO	PED	6	---	---
CB1	TO	SB3	---	---	245
SB3	TO	10	---	23	---
SB3	TO	PED	6	---	---
CB1	TO	SB4	---	---	257
SB4	TO	4	---	23	---
SB4	TO	7	23	---	---
CB1	TO	SB5	---	---	305
SB5	TO	8	45	---	---
SB5	TO	18	12	---	---
SB5	TO	PED	6	---	---
CB1	TO	SB6	---	---	348
SB6	TO	14	19	---	---
SB6	TO	19	12	---	---
SB6	TO	PED	6	---	---
CB1	TO	SB7	---	---	311
SB7	TO	12	19	---	---
CB1	TO	SB8	---	---	282
SB8	TO	13	45	---	---
SB8	TO	20	12	---	---
SB8	TO	PED	6	---	---
CB1	TO	SB9	---	---	224
SB9	TO	6	19	---	---
SB9	TO	21	12	---	---
SB9	TO	PED	6	---	---
CB1	TO	SB10	---	---	178
SB10	TO	5	---	23	---
SB10	TO	PED	6	---	---
CB1	TO	SB11	---	---	144
SB11	TO	2	23	---	---
SB11	TO	9	---	23	---
CB1	TO	SB12	---	---	106
SB12	TO	3	45	---	---
SB12	TO	22	12	---	---
SB12	TO	PED	6	---	---
CB1	TO	SB13	---	---	32
SB13	TO	11	19	---	---
SB13	TO	15	19	---	---
SB13	TO	23	12	---	---
SB13	TO	PED	6	---	---
		TOTALS	496	92	2739

* ADDITIONAL QUANTITIES LISTED ELSEWHERE

LOC.	TO	LOC.	655.0515 ELECTRICAL WIRE TRAFFIC SIGNALS 10 AWG L.F.*
CB1	TO	SB1	105
SB1	TO	SB2	151
SB2	TO	SB3	103
SB3	TO	SB4	60
SB4	TO	SB5	72
SB5	TO	SB6	65
SB6	TO	SB7	72
SB7	TO	SB8	63
SB8	TO	SB9	100
SB9	TO	SB10	92
SB10	TO	SB11	60
SB11	TO	SB12	84
SB12	TO	SB13	102
SB13	TO	CB1	32
SB1	TO	PB3	30
SB2	TO	PB4	33
SB3	TO	PB6	27
SB4	TO	PB7	15
SB5	TO	PB8	14
SB6	TO	PB9	18
SB7	TO	PB12	12
SB8	TO	PB13	20
SB9	TO	PB14	24
SB10	TO	PB16	26
SB11	TO	PB17	16
SB12	TO	PB18	26
SB13	TO	PB19	17
CB1	TO	PB1	18
		TOTAL	1457

* ADDITIONAL QUANTITIES LISTED ELSEWHERE

661.0200.01 TEMPORARY TRAFFIC SIGNALS FOR INTERSECTION (LOCATION)	
LOCATION	L.S.
STH 181 (N 76TH ST) & CALUMET ROAD	1

SIGNAL BASE NO.	LOCATION		204.0195 REMOVING CONCRETE BASES EACH**
SB1	152+52	80' LT	1.0
SB2	153+24	71' LT	1.0
SB3	153+54	52' LT	1.0
SB4	153+67	53' RT	1.0
SB5	153+37	69' RT	1.0
SB6	152+80	72' RT	1.0
SB7	152+78	51' RT	1.0
SB8	152+34	54' LT	1.0
CB1	153+55	59' RT	1.0
		TOTAL	9.0

** ADDITIONAL QUANTITES LISTED ELSEWHERE

PULL BOX NO.	LOCATION		SPV.0060.09 REMOVING PULL BOXES EACH**
PB1	152+48	74' LT	1.0
PB2	152+50	105' LT	1.0
PB3	153+27	67' LT	1.0
PB4	153+48	52' LT	1.0
PB5	153+55	2' RT	1.0
PB6	154+06	1' RT	1.0
PB7	153+55	54' RT	1.0
PB8	153+40	64' RT	1.0
PB9	152+78	65' RT	1.0
PB10	152+54	54' RT	1.0
PB11	152+56	8' LT	1.0
PB12	152+09	3' LT	1.0
PB13	152+41	56' LT	1.0
		TOTAL	13.0

** ADDITIONAL QUANTITES LISTED ELSEWHERE

STH 181 & CALUMET ROAD
PAGE 3 OF 4

LOOP NO.	HOME RUN PB	LOCATION*	SIZE (FT)x(FT)	NO. OF TURNS	PAVEMENT TYPE	CONST. METHOD***	SDD INSTALLATION REFERENCE	652.0800 CONDUIT LOOP DETECTOR L.F.**	655.0700 LOOP DETECTOR LEAD IN CABLE L.F.**	655.0800 LOOP DETECTOR WIRE L.F.**
11	PB6	152+18.31 0.01' LT	6X20	3	ASPH	CABC	LOOP DETECTOR INSTALLED IN BASE COURSE WITH PULL (SPLICE) BOX OFF ROADWAY (OPTION 2)	76.0	194.0	152.0
12	PB6	152+46.34 0.03' RT	6X20	3	ASPH	CABC	LOOP DETECTOR INSTALLED IN BASE COURSE WITH PULL (SPLICE) BOX OFF ROADWAY (OPTION 2)	66.0	194.0	132.0
21	PB15	156+50.58 29.50' LT	6X28	3	ASPH	CABC	LOOP DETECTOR INSTALLED IN BASE COURSE WITH PULL (SPLICE) BOX OFF ROADWAY (OPTION 2)	84.0	446.0	252.0
41	PB11	8+84.99 'C1' 9.60' RT	6X14	4	ASPH	CABC	LOOP DETECTOR INSTALLED IN BASE COURSE WITH PULL (SPLICE) BOX OFF ROADWAY (OPTION 2)	56.0	528.0	224.0
42	PB10	152+64.43 91.78' LT	6X20	3	ASPH	CABC	LOOP DETECTOR INSTALLED IN BASE COURSE WITH PULL (SPLICE) BOX OFF ROADWAY (OPTION 2)	72.0	302.0	216.0
43	PB10	152+65.63 63.78' LT	6X20	3	ASPH	CABC	LOOP DETECTOR INSTALLED IN BASE COURSE WITH PULL (SPLICE) BOX OFF ROADWAY (OPTION 2)	74.0	302.0	222.0
44	PB10	152+73.74 91.70' LT	6X20	3	ASPH	CABC	LOOP DETECTOR INSTALLED IN BASE COURSE WITH PULL (SPLICE) BOX OFF ROADWAY (OPTION 2)	90.0	302.0	270.0
45	PB10	152+74.94 63.70' LT	6X20	3	ASPH	CABC	LOOP DETECTOR INSTALLED IN BASE COURSE WITH PULL (SPLICE) BOX OFF ROADWAY (OPTION 2)	92.0	302.0	276.0
46	PB12	152+84.17 91.85' LT	6X20	3	ASPH	CABC	LOOP DETECTOR INSTALLED IN BASE COURSE WITH PULL (SPLICE) BOX OFF ROADWAY (OPTION 2)	88.0	257.0	176.0
47	PB12	152+85.26 63.84' LT	6X20	3	ASPH	CABC	LOOP DETECTOR INSTALLED IN BASE COURSE WITH PULL (SPLICE) BOX OFF ROADWAY (OPTION 2)	74.0	257.0	148.0
51	PB17	153+83.59 0.01' RT	6X20	3	ASPH	CABC	LOOP DETECTOR INSTALLED IN BASE COURSE WITH PULL (SPLICE) BOX OFF ROADWAY (OPTION 2)	74.0	110.0	148.0
52	PB17	153+55.56 0.03' LT	6X20	3	ASPH	CABC	LOOP DETECTOR INSTALLED IN BASE COURSE WITH PULL (SPLICE) BOX OFF ROADWAY (OPTION 2)	64.0	110.0	128.0
61	PB5	149+62.17 29.91' RT	6X28	3	ASPH	CABC	LOOP DETECTOR INSTALLED IN BASE COURSE WITH PULL (SPLICE) BOX OFF ROADWAY (OPTION 2)	84.0	419.0	252.0
81	PB2	13+25.89 'C1' 11.27' LT	6X18	3	ASPH	CABC	LOOP DETECTOR INSTALLED IN BASE COURSE WITH PULL (SPLICE) BOX OFF ROADWAY (OPTION 2)	62.0	231.0	124.0
82	PB1	153+27.23 104.33' RT	6X20	3	ASPH	CABC	LOOP DETECTOR INSTALLED IN BASE COURSE WITH PULL (SPLICE) BOX OFF ROADWAY (OPTION 2)	68.0	6.0	68.0
83	PB1	153+26.73 76.30' RT	6X20	3	ASPH	CABC	LOOP DETECTOR INSTALLED IN BASE COURSE WITH PULL (SPLICE) BOX OFF ROADWAY (OPTION 2)	68.0	6.0	68.0
84	PB1	153+15.88 104.54' RT	6X20	3	ASPH	CABC	LOOP DETECTOR INSTALLED IN BASE COURSE WITH PULL (SPLICE) BOX OFF ROADWAY (OPTION 2)	90.0	6.0	90.0
85	PB1	153+15.38 76.52' RT	6X20	3	ASPH	CABC	LOOP DETECTOR INSTALLED IN BASE COURSE WITH PULL (SPLICE) BOX OFF ROADWAY (OPTION 2)	90.0	6.0	90.0
							TOTALS	1372.0	3978.0	3036.0

* LOCATION IS TO FRONT CENTER OF DETECTOR LOOP. FINAL LOCATION TO BE DETERMINED BY THE FIELD ENGINEER
** ADDITIONAL QUANTITES LISTED ELSEWHERE
***CONSTRUCTION METHOD:
CUT= SAW CUT SLOTS INTO EXISTING PAVEMENT
FLOAT= FLOAT INTO NEW CONCRETE PAVEMENT.
TOP= INSTALL LOOP DETECTOR ON TOP OF CRUSHED AGGREGATE BASE COURSE
CABC= INSTALL LOOP DETECTOR IN CRUSHED AGGREGATE BASE COURSE.

REMOVE TRAFFIC SIGNALS, CALUMET ROAD		
CATEGORY	PROJECT	SPV.0105.03 LS
0010	2140-08-73	1
	TOTAL	1

TRANSPORT EXISTING TRAFFIC SIGNALS, CALUMET ROAD		
CATEGORY	PROJECT	SPV.0105.19 LS
0070	2140-08-73	1
	TOTAL	1

SUMMARY OF STATE FURNISHED MATERIALS

SPV.0105.12 TRAFFIC SIGNALS AND INTERSECTION LIGHTING, W. BRADLEY ROAD 1 - LUMP SUM

QUANT. EACH	DESCRIPTION
6	PEDESTAL BASES
8	TRANSFORMER BASES, STANDARD, 11 1/2" BOLT CIRCLE
4	POLES, TYPE 2
4	POLES, TYPE 4
4	TRAFFIC SIGNAL STANDARDS, ALUMINUM, 13'
2	TRAFFIC SIGNAL STANDARDS, ALUMINUM, 15'
2	TROMBONE ARMS, 15'
2	TROMBONE ARMS, 20'
6	TRAFFIC SIGNAL FACES, 3-12" VERTICAL, LED MODULES
8	TRAFFIC SIGNAL FACES, 5-12" VERTICAL, LED MODULES
4	TRAFFIC SIGNAL FACES, 3-12" HORIZONTAL, LED MODULES
10	BACKPLATES, 3 SECTION, 12" SIGNAL FACES
8	BACKPLATES, 5 SECTION, 12" SIGNAL FACES
8	PEDESTRIAN SIGNAL FACES, 12", LED MODULES
12	PEDESTRIAN PUSH BUTTONS
1	TRAFFIC SIGNAL MOUNTING HARDWARE, STH 181 (N 76TH ST) AND W. BRADLEY ROAD
8	LUMINAIRES, UTILITY, 250 W
8	LUMINAIRE ARMS, SINGLE MEMBER, 4" CLAMP, 6'

NOTE: THIS TABLE IS FOR INFORMATION ONLY

PEDESTAL BASES*
TRANSFORMER BASES, BREAKAWAY, 11 1/2 INCH BOLT CIRCLE*
POLES, TYPE 2 - ALUMINUM*
POLES, TYPE 4 *
TRAFFIC SIGNAL STANDARDS, ALUMINUM, 13-FOOT*
TRAFFIC SIGNAL STANDARDS, ALUMINUM, 15-FOOT*
TROMBONE ARMS, 15-FOOT*
TROMBONE ARMS, 20-FOOT*
LUMINAIRES, UTILITY, 250 W*
LUMINAIRE ARMS, SINGLE MEMBER, 4-INCH CLAMP, 6-FOOT*
PEDESTRIAN PUSH BUTTONS*

SIG. BASE NO.	PED. BASE EACH**	TRANS. BASE EACH**	POLE TYPE 2 EACH**	POLE TYPE 4 EACH**	13-FOOT STAND. EACH**	15-FOOT STAND. EACH**	15-FOOT TROMB. EACH**	20-FOOT TROMB. EACH**	LUMIN. 250 W EACH**	ARM 6-FOOT EACH**	PUSH BUTTON EACH**
SB1	1.0				1.0						1.0
SB2		1.0		1.0					2.0	2.0	1.0
SB3	1.0					1.0					
SB4		1.0	1.0					1.0			1.0
SB5	1.0				1.0						1.0
SB6		1.0		1.0					2.0	2.0	1.0
SB7		1.0	1.0				1.0				1.0
SB8	1.0				1.0						1.0
SB9		1.0		1.0					2.0	2.0	1.0
SB10	1.0					1.0					
SB11		1.0	1.0					1.0			1.0
SB12	1.0				1.0						1.0
SB13		1.0		1.0					2.0	2.0	1.0
SB14		1.0	1.0				1.0				1.0
TOTALS	6.0	8.0	4.0	4.0	4.0	2.0	2.0	2.0	8.0	8.0	12.0

* INCIDENTAL TO ITEM, "TRAFFIC SIGNALS AND INTERSECTION LIGHTING, W. BRADLEY ROAD"
** ADDITIONAL QUANTITIES LISTED ELSEWHERE

NOTE: THIS TABLE IS FOR INFORMATION ONLY

TRAFFIC SIGNAL FACES, 3-12 INCH VERTICAL, LED MODULES*
TRAFFIC SIGNAL FACES, 5-12 INCH VERTICAL, LED MODULES*
TRAFFIC SIGNAL FACES, 3-12 INCH HORIZONTAL, LED MODULES*
BACKPLATES, 3 SECTION, 12-INCH SIGNAL FACES*
BACKPLATES, 5 SECTION, 12-INCH SIGNAL FACES*
COUNTDOWN PEDESTRIAN SIGNAL FACES, 12-INCH, LED MODULES*

SIG. HEAD NO.	SIG. BASE NO.	3-12" VERT. EACH**	5-12" VERT. EACH**	3-12" HORZ. EACH**	BCKPLT 3-SEC. EACH**	BCKPLT 5-SEC. EACH**	PED. FACE EACH**
1	SB8	1.0			1.0		
2	SB3	1.0			1.0		
3	SB4			1.0	1.0		
4	SB10		1.0			1.0	
5	SB2		1.0			1.0	
6	SB1	1.0			1.0		
7	SB10	1.0			1.0		
8	SB11			1.0	1.0		
9	SB3		1.0			1.0	
10	SB9		1.0			1.0	
11	SB5	1.0			1.0		
12	SB13		1.0			1.0	
13	SB14			1.0	1.0		
14	SB6		1.0			1.0	
15	SB12	1.0			1.0		
16	SB6		1.0			1.0	
17	SB7			1.0	1.0		
18	SB13		1.0			1.0	
19	SB8						1.0
20	SB11						1.0
21	SB12						1.0
22	SB14						1.0
23	SB1						1.0
24	SB4						1.0
25	SB5						1.0
26	SB7						1.0
TOTALS		6.0	8.0	4.0	10.0	8.0	8.0

* INCIDENTAL TO ITEM, "TRAFFIC SIGNALS AND INTERSECTION LIGHTING, W. BRADLEY ROAD"
** ADDITIONAL QUANTITIES LISTED ELSEWHERE

STH 181 & W. BRADLEY ROAD
PAGE 1 OF 4

LOC.	TO	LOC.	652.0225 CONDUIT RIGID NONMETALLIC SCHEDULE 40 2-INCH L.F.*	652.0235 CONDUIT RIGID NONMETALLIC SCHEDULE 40 3-INCH L.F.*	652.0605 CONDUIT SPECIAL 2-INCH L.F.*
CB1	TO	PB1		126.00	
PB1	TO	SB1	6.00		
PB1	TO	PB2	285.00		
PB1	TO	PB3		90.00	
PB3	TO	SB2	20.00		
PB3	TO	PB4		34.00	
PB4	TO	SB3	11.00		
PB4	TO	PB5		84.00	
PB5	TO	SB4	19.00		
PB5	TO	PB6		102.00	
PB6	TO	SB5	11.00		
PB6	TO	PB7	16.00		
PB7	TO	PB8	134.00		90.00
PB6	TO	PB10		102.00	
PB10	TO	PB9	16.00		
PB10	TO	SB6	11.00		
PB10	TO	PB11		84.00	
PB11	TO	SB7	11.00		
PB11	TO	PB12		86.00	
PB12	TO	SB8	10.00		
PB12	TO	PB13	317.00		
PB12	TO	PB14		86.00	
PB14	TO	SB9	10.00		
PB14	TO	PB16		36.00	
PB16	TO	PB15	14.00		
PB16	TO	SB10	6.00		
PB16	TO	PB17		84.00	
PB17	TO	SB11	10.00		
PB17	TO	PB18		66.00	
PB18	TO	PB19	52.00		
PB18	TO	SB12	3.00		
PB19	TO	PB20	147.00		50.00
PB18	TO	PB22		106.00	
PB22	TO	PB21	18.00		
PB22	TO	SB13	6.00		
PB22	TO	PB23		82.00	
PB23	TO	SB14	5.00		
PB23	TO	CB1		18.00	
		TOTALS	1138.0	1186.0	140.0

* ADDITIONAL QUANTITIES LISTED ELSEWHERE

PULL BOX NO.	LOCATION*		653.0135 PULL BOXES STEEL 24X36-INCH EACH**	653.0140 PULL BOXES STEEL 24X42-INCH EACH**
PB1	180+06.42	51.52' LT		1.0
PB2	182+91.83	51.19' LT	1.0	
PB3	180+19.80	8.60' LT		1.0
PB4	180+19.73	9.04' RT		1.0
PB5	180+19.16	51.12' RT		1.0
PB6	179+87.38	78.58' RT		1.0
PB7	179+87.27	94.11' RT	1.0	
PB8	13+18.27 'B1'	24.88' LT	1.0	
PB9	179+38.05	94.53' RT	1.0	
PB10	179+37.69	78.19' RT		1.0
PB11	178+95.82	78.76' RT		1.0
PB12	178+69.88	51.76' RT		1.0
PB13	175+53.20	51.51' RT	1.0	
PB14	178+69.47	9.07' RT		1.0
PB15	178+55.95	8.67' LT	1.0	
PB16	178+69.22	8.87' LT		1.0
PB17	178+68.84	51.18' LT		1.0
PB18	178+90.50	70.94' LT		1.0
PB19	178+90.74	122.50' L	1.0	
PB20	8+79.68 'B'	32.14' RT	1.0	
PB21	179+44.33	94.33' LT	1.0	
PB22	179+44.38	75.88' LT		1.0
PB23	179+85.48	75.46' LT		1.0
		TOTALS	9.0	14.0

* FINAL LOCATION TO BE DETERMINED BY THE ENGINEER IN THE FIELD.
** ADDITIONAL QUANTITIES LISTED ELSEWHERE

SIGNAL BASE NO.	LOCATION*		654.0101 CONCRETE BASES TYPE 1 EACH**	654.0102 CONCRETE BASES TYPE 2 EACH**
SB1	180+00.63	51.55' LT	1.0	
SB2	180+00.06	9.10' LT		1.0
SB3	180+09.55	8.82' RT	1.0	
SB4	180+00.73	52.25' RT		1.0
SB5	179+88.20	68.74' RT	1.0	
SB6	179+37.22	67.68' RT		1.0
SB7	178+94.72	68.00' RT		1.0
SB8	178+78.68	52.30' RT	1.0	
SB9	178+79.29	8.90' RT		1.0
SB10	178+64.97	9.07' LT	1.0	
SB11	178+78.49	52.36' LT		1.0
SB12	178+90.58	67.85' LT	1.0	
SB13	179+44.17	69.93' LT		1.0
SB14	179+87.40	70.67' LT		1.0
		TOTALS	6.0	8.0

* FINAL LOCATION TO BE DETERMINED BY THE ENGINEER IN THE FIELD.
** ADDITIONAL QUANTITIES LISTED ELSEWHERE

654.0217 CONCRETE CONTROL CABINET BASES, TYPE 9, SPECIAL
656.0200.02 ELECTRICAL SERVICE, METER BREAKER PEDESTAL,
STH 181 (N 76TH ST) & W. BRADLEY ROAD

LOCATION*		BASE EACH**	METER L.S.
179+84.69	81.34' LT	1.0	1.0

* FINAL LOCATION TO BE DETERMINED BY THE ENGINEER IN THE FIELD.
** ADDITIONAL QUANTITES LISTED ELSEWHERE

LOC.	TO	LOC.	655.0305 CABLE TYPE UF 2-12 AWG GROUNDED L.F.*	655.0610 ELECTRICAL WIRE LIGHTING 12 AWG L.F.*
CB1	TO	SB13	71	---
SB13	TO	POLE	---	288
SB13	TO	SB9	192	---
SB9	TO	POLE	---	288
CB1	TO	SB2	125	---
SB2	TO	POLE	---	288
SB2	TO	SB6	289	---
SB6	TO	POLE	---	288
		TOTALS	677	1152

* ADDITIONAL QUANTITIES LISTED ELSEWHERE

STH 181 & W. BRADLEY ROAD
PAGE 2 OF 4

LOC.	TO	LOC.	655.0230 CABLE TRAFFIC SIGNAL 5-14 AWG L.F.*	655.0240 CABLE TRAFFIC SIGNAL 7-14 AWG L.F.*	655.0260 CABLE TRAFFIC SIGNAL 12-14 AWG L.F.*
CB1	TO	SB1	---	---	60
SB1	TO	6	19	---	---
SB1	TO	23	12	---	---
SB1	TO	PED	6	---	---
CB1	TO	SB2	---	---	125
SB2	TO	5	---	23	---
SB2	TO	PED	6	---	---
CB1	TO	SB3	---	---	139
SB3	TO	2	23	---	---
SB3	TO	9	---	23	---
CB1	TO	SB4	---	---	195
SB4	TO	3	45	---	---
SB4	TO	24	12	---	---
SB4	TO	PED	6	---	---
CB1	TO	SB5	---	---	244
SB5	TO	11	19	---	---
SB5	TO	25	12	---	---
SB5	TO	PED	6	---	---
CB1	TO	SB6	---	---	301
SB6	TO	14	---	23	---
SB6	TO	16	---	23	---
SB6	TO	PED	6	---	---
CB1	TO	SB7	---	---	344
SB7	TO	17	45	---	---
SB7	TO	26	12	---	---
SB7	TO	PED	6	---	---
CB1	TO	SB8	---	---	276
SB8	TO	1	19	---	---
SB8	TO	19	12	---	---
SB8	TO	PED	6	---	---
CB1	TO	SB9	---	---	245
SB9	TO	10	---	23	---
SB9	TO	PED	6	---	---
CB1	TO	SB10	---	---	217
SB10	TO	4	---	23	---
SB10	TO	7	23	---	---
CB1	TO	SB11	---	---	173
SB11	TO	8	45	---	---
SB11	TO	20	12	---	---
SB11	TO	PED	6	---	---
CB1	TO	SB12	---	---	127
SB12	TO	15	19	---	---
SB12	TO	21	12	---	---
SB12	TO	PED	6	---	---
CB1	TO	SB13	---	---	71
SB13	TO	12	---	23	---
SB13	TO	18	---	23	---
SB13	TO	PED	6	---	---
CB1	TO	SB14	---	---	23
SB14	TO	13	45	---	---
SB14	TO	22	23	---	---
SB14	TO	PED	6	---	---
		TOTAL	481	184	2540

* ADDITIONAL QUANTITIES LISTED ELSEWHERE

661.0200.02 TEMPORARY TRAFFIC SIGNALS FOR INTERSECTION (LOCATION)	
LOCATION	L.S.
STH 181 (N 76TH ST) & W. BRADLEY ROAD	1

LOC.	TO	LOC.	655.0515 ELECTRICAL WIRE TRAFFIC SIGNALS 10 AWG L.F.*
CB1	TO	SB1	60
SB1	TO	SB2	83
SB2	TO	SB3	60
SB3	TO	SB4	84
SB4	TO	SB5	93
SB5	TO	SB6	85
SB6	TO	SB7	76
SB7	TO	SB8	76
SB8	TO	SB9	75
SB9	TO	SB10	46
SB10	TO	SB11	70
SB11	TO	SB12	58
SB12	TO	SB13	74
SB13	TO	SB14	64
SB14	TO	CB1	23
SB1	TO	PB1	12
SB2	TO	PB3	26
SB3	TO	PB4	17
SB4	TO	PB5	25
SB5	TO	PB6	17
SB6	TO	PB10	17
SB7	TO	PB11	17
SB8	TO	PB12	16
SB9	TO	PB14	16
SB10	TO	PB16	20
SB11	TO	PB17	16
SB12	TO	PB18	9
SB13	TO	PB22	12
SB14	TO	PB23	11
		TOTAL	1258

* ADDITIONAL QUANTITIES LISTED ELSEWHERE

SIGNAL BASE NO.	LOCATION		204.0195 REMOVING CONCRETE BASES EACH**
SB1	178+74	50' LT	1.0
SB2	178+94	68' LT	1.0
SB3	179+45	70' LT	1.0
SB4	179+86	70' LT	1.0
SB5	180+01	51' LT	1.0
SB6	180+07	52' RT	1.0
SB7	179+88	72' RT	1.0
SB8	179+68	71' RT	1.0
SB9	178+96	71' RT	1.0
SB10	178+79	51' RT	1.0
CB1	179+85	87' LT	1.0
		TOTAL	11.0

** ADDITIONAL QUANTITES LISTED ELSEWHERE

PULL BOX NO.	LOCATION		SPV.0060.09 REMOVING PULL BOXES EACH**
PB1	178+88	85' LT	1.0
PB2	179+93	72' LT	1.0
PB3	179+97	52' LT	1.0
PB4	182+52	7' LT	1.0
PB5	180+89	3' RT	1.0
PB6	180+04	7' RT	1.0
PB7	180+03	52' RT	1.0
PB8	179+88	67' RT	1.0
PB9	179+41	184' RT	1.0
PB10	179+39	121' RT	1.0
PB11	179+39	93' RT	1.0
PB12	179+39	67' RT	1.0
PB13	178+96	67' RT	1.0
PB14	177+95	5' LT	1.0
PB15	176+77	8' RT	1.0
PB16	179+45	91' LT	1.0
PB17	179+43	116' LT	1.0
PB18	179+25	199' LT	1.0
		TOTAL	18.0

** ADDITIONAL QUANTITES LISTED ELSEWHERE

STH 181 & W. BRADLEY ROAD
PAGE 3 OF 4

LOOP NO.	HOME RUN PB	LOCATION*		SIZE (FT)x(FT)	NO. OF TURNS	PAVEMENT TYPE	CONST. METHOD***	SDD INSTALLATION REFERENCE	652.0800 CONDUIT LOOP DETECTOR L.F.**	655.0700 LOOP DETECTOR LEAD IN CABLE L.F.**	655.0800 LOOP DETECTOR WIRE L.F.**
11	PB15	178+50.66	0.01' RT	6X20	3	ASPH	CABC	LOOP DETECTOR INSTALLED IN BASE COURSE WITH PULL (SPLICE) BOX OFF ROADWAY (OPTION 2)	68.0	189.0	204.0
12	PB15	178+78.69	0.04' LT	6X20	3	ASPH	CABC	LOOP DETECTOR INSTALLED IN BASE COURSE WITH PULL (SPLICE) BOX OFF ROADWAY (OPTION 2)	64.0	189.0	192.0
21	PB2	182+91.83	51.19' LT	6X28	3	ASPH	CABC	LOOP DETECTOR INSTALLED IN BASE COURSE WITH PULL (SPLICE) BOX OFF ROADWAY (OPTION 2)	84.0	333.0	252.0
31	PB9	179+51.12	96.52' RT	6X20	3	ASPH	CABC	LOOP DETECTOR INSTALLED IN BASE COURSE WITH PULL (SPLICE) BOX OFF ROADWAY (OPTION 2)	76.0	270.0	228.0
32	PB9	179+51.13	68.49' RT	6X20	3	ASPH	CABC	LOOP DETECTOR INSTALLED IN BASE COURSE WITH PULL (SPLICE) BOX OFF ROADWAY (OPTION 2)	78.0	270.0	234.0
41	PB20	8+80.95 'B'	13.51' RT	6X20	3	ASPH	CABC	LOOP DETECTOR INSTALLED IN BASE COURSE WITH PULL (SPLICE) BOX OFF ROADWAY (OPTION 2)	70.0	349.0	210.0
42	PB19	179+03.19	97.23' LT	6X20	3	ASPH	CABC	LOOP DETECTOR INSTALLED IN BASE COURSE WITH PULL (SPLICE) BOX OFF ROADWAY (OPTION 2)	72.0	152.0	216.0
43	PB18	179+04.34	69.23' LT	6X20	3	ASPH	CABC	LOOP DETECTOR INSTALLED IN BASE COURSE WITH PULL (SPLICE) BOX OFF ROADWAY (OPTION 2)	74.0	100.0	222.0
44	PB19	179+16.11	97.58' LT	6X20	3	ASPH	CABC	LOOP DETECTOR INSTALLED IN BASE COURSE WITH PULL (SPLICE) BOX OFF ROADWAY (OPTION 2)	96.0	152.0	288.0
45	PB18	179+17.04	69.57' LT	6X20	3	ASPH	CABC	LOOP DETECTOR INSTALLED IN BASE COURSE WITH PULL (SPLICE) BOX OFF ROADWAY (OPTION 2)	106.0	100.0	318.0
51	PB4	180+28.70	0.01' LT	6X20	3	ASPH	CABC	LOOP DETECTOR INSTALLED IN BASE COURSE WITH PULL (SPLICE) BOX OFF ROADWAY (OPTION 2)	66.0	117.0	198.0
52	PB4	180+00.67	0.02' LT	6X20	3	ASPH	CABC	LOOP DETECTOR INSTALLED IN BASE COURSE WITH PULL (SPLICE) BOX OFF ROADWAY (OPTION 2)	68.0	117.0	204.0
61	PB13	175+53.29	29.60' RT	6X28	3	ASPH	CABC	LOOP DETECTOR INSTALLED IN BASE COURSE WITH PULL (SPLICE) BOX OFF ROADWAY (OPTION 2)	84.0	553.0	252.0
71	PB21	179+28.17	97.95' LT	6X20	3	ASPH	CABC	LOOP DETECTOR INSTALLED IN BASE COURSE WITH PULL (SPLICE) BOX OFF ROADWAY (OPTION 2)	76.0	65.0	228.0
72	PB21	179+29.09	69.93' LT	6X20	3	ASPH	CABC	LOOP DETECTOR INSTALLED IN BASE COURSE WITH PULL (SPLICE) BOX OFF ROADWAY (OPTION 2)	76.0	65.0	228.0
81	PB8	13+17.51 'B1'	6.72' LT	6X18	3	ASPH	CABC	LOOP DETECTOR INSTALLED IN BASE COURSE WITH PULL (SPLICE) BOX OFF ROADWAY (OPTION 2)	66.0	443.0	198.0
82	PB7	179+75.92	97.07' RT	6X20	3	ASPH	CABC	LOOP DETECTOR INSTALLED IN BASE COURSE WITH PULL (SPLICE) BOX OFF ROADWAY (OPTION 2)	70.0	219.0	210.0
83	PB7	179+75.93	69.04' RT	6X20	3	ASPH	CABC	LOOP DETECTOR INSTALLED IN BASE COURSE WITH PULL (SPLICE) BOX OFF ROADWAY (OPTION 2)	72.0	219.0	216.0
84	PB7	179+64.32	96.76' RT	6X20	3	ASPH	CABC	LOOP DETECTOR INSTALLED IN BASE COURSE WITH PULL (SPLICE) BOX OFF ROADWAY (OPTION 2)	92.0	219.0	276.0
85	PB7	179+64.33	68.73' RT	6X20	3	ASPH	CABC	LOOP DETECTOR INSTALLED IN BASE COURSE WITH PULL (SPLICE) BOX OFF ROADWAY (OPTION 2)	94.0	219.0	282.0
								TOTALS	1552.0	4340.0	4656.0

* LOCATION IS TO FRONT CENTER OF DETECTOR LOOP. FINAL LOCATION TO BE DETERMINED BY THE FIELD ENGINEER
** ADDITIONAL QUANTITES LISTED ELSEWHERE
***CONSTRUCTION METHOD:
CUT= SAW CUT SLOTS INTO EXISTING PAVEMENT
FLOAT= FLOAT INTO NEW CONCRETE PAVEMENT.
TOP= INSTALL LOOP DETECTOR ON TOP OF CRUSHED AGGREGATE BASE COURSE
CABC= INSTALL LOOP DETECTOR IN CRUSHED AGGREGATE BASE COURSE.

REMOVE TRAFFIC SIGNALS, BRADLEY ROAD		
CATEGORY	PROJECT	SPV.0105.04 LS
0010	2140-08-73	1
	TOTAL	1

TRANSPORT EXISTING TRAFFIC SIGNALS, BRADLEY ROAD		
CATEGORY	PROJECT	SPV.0105.20 LS
0070	2140-08-73	1
	TOTAL	1

SUMMARY OF STATE FURNISHED MATERIALS

SPV.0105.13 TRAFFIC SIGNALS AND INTERSECTION LIGHTING, TOWER AVENUE
1 - LUMP SUM

QUANT. EACH	DESCRIPTION
5	PEDESTAL BASES
6	TRANSFORMER BASES, STANDARD, 11 1/2" BOLT CIRCLE
2	POLES, TYPE 2
4	POLES, TYPE 4
5	TRAFFIC SIGNAL STANDARDS, ALUMINUM, 13'
2	TROMBONE ARMS, 20'
10	TRAFFIC SIGNAL FACES, 3-12" VERTICAL, LED MODULES
2	TRAFFIC SIGNAL FACES, 5-12" VERTICAL, LED MODULES
2	TRAFFIC SIGNAL FACES, 3-12" HORIZONTAL, LED MODULES
12	BACKPLATES, 3 SECTION, 12" SIGNAL FACES
2	BACKPLATES, 5 SECTION, 12" SIGNAL FACES
8	PEDESTRIAN SIGNAL FACES, 12", LED MODULES
10	PEDESTRIAN PUSH BUTTONS
1	TRAFFIC SIGNAL MOUNTING HARDWARE, STH 181 (N 76TH ST) AND TOWER AVENUE
2	LUMINAIRES, UTILITY, 150 W
4	LUMINAIRES, UTILITY, 250 W
6	LUMINAIRE ARMS, SINGLE MEMBER, 4" CLAMP, 6'

NOTE: THIS TABLE IS FOR INFORMATION ONLY

PEDESTAL BASES*
TRANSFORMER BASES, BREAKAWAY, 11 1/2 INCH BOLT CIRCLE*
POLES, TYPE 2 - ALUMINUM*
POLES, TYPE 4 *
TRAFFIC SIGNAL STANDARDS, ALUMINUM, 13-FOOT*
TROMBONE ARMS, 20-FOOT*
LUMINAIRES, UTILITY, 150 W*
LUMINAIRES, UTILITY, 250 W*
LUMINAIRE ARMS, SINGLE MEMBER, 4-INCH CLAMP, 6-FOOT*
PEDESTRIAN PUSH BUTTONS*

SIG. BASE NO.	PED. BASE EACH**	TRANS. BASE EACH**	POLE TYPE 2 EACH**	POLE TYPE 4 EACH**	13-FOOT STAND. EACH**	20-FOOT TROMB. EACH**	LUMIN. 150 W EACH**	LUMIN. 250 W EACH**	ARM 6-FOOT EACH**	PUSH BUTTON EACH**
SB1	1.0				1.0					1.0
SB2		1.0		1.0				2.0	2.0	1.0
SB3	1.0				1.0					
SB4		1.0	1.0			1.0				1.0
SB5	1.0				1.0					1.0
SB6		1.0		1.0			1.0		1.0	1.0
SB7	1.0				1.0					1.0
SB8		1.0		1.0				2.0	2.0	1.0
SB9		1.0	1.0			1.0				1.0
SB10	1.0				1.0					1.0
SB11		1.0		1.0			1.0		1.0	1.0
TOTALS	5.0	6.0	2.0	4.0	5.0	2.0	2.0	4.0	6.0	10.0

* INCIDENTAL TO ITEM, "TRAFFIC SIGNALS AND INTERSECTION LIGHTING, TOWER AVENUE"
** ADDITIONAL QUANTITIES LISTED ELSEWHERE

NOTE: THIS TABLE IS FOR INFORMATION ONLY

TRAFFIC SIGNAL FACES, 3-12 INCH VERTICAL, LED MODULES*
TRAFFIC SIGNAL FACES, 5-12 INCH VERTICAL, LED MODULES*
TRAFFIC SIGNAL FACES, 3-12 INCH HORIZONTAL, LED MODULES*
BACKPLATES, 3 SECTION, 12-INCH SIGNAL FACES*
BACKPLATES, 5 SECTION, 12-INCH SIGNAL FACES*
COUNTDOWN PEDESTRIAN SIGNAL FACES, 12-INCH, LED MODULES*

SIG. HEAD NO.	SIG. BASE NO.	3-12" VERT. EACH**	5-12" VERT. EACH**	3-12" HORZ. EACH**	BCKPLT 3-SEC. EACH**	BCKPLT 5-SEC. EACH**	PED. FACE EACH**
1	SB7	1.0			1.0		
2	SB3	1.0			1.0		
3	SB4			1.0	1.0		
4	SB8		1.0			1.0	
5	SB2		1.0			1.0	
6	SB1	1.0			1.0		
7	SB8	1.0			1.0		
8	SB9			1.0	1.0		
9	SB5	1.0			1.0		
10	SB10	1.0			1.0		
11	SB11	1.0			1.0		
12	SB10	1.0			1.0		
13	SB5	1.0			1.0		
14	SB6	1.0			1.0		
15	SB7						1.0
16	SB9						1.0
17	SB10						1.0
18	SB11						1.0
19	SB1						1.0
20	SB4						1.0
21	SB5						1.0
22	SB6						1.0
	TOTALS	10.0	2.0	2.0	12.0	2.0	8.0

* INCIDENTAL TO ITEM, "TRAFFIC SIGNALS AND INTERSECTION LIGHTING, TOWER AVENUE"
** ADDITIONAL QUANTITIES LISTED ELSEWHERE

STH 181 & TOWER AVENUE
PAGE 1 OF 4

LOC.	TO	LOC.	652.0225 CONDUIT RIGID NONMETALLIC SCHEDULE 40 2-INCH L.F.*	652.0235 CONDUIT RIGID NONMETALLIC SCHEDULE 40 3-INCH L.F.*
CB1	TO	PB1		111.00
PB1	TO	SB1	34.00	
PB1	TO	PB2	261.00	
PB1	TO	PB3		84.00
PB3	TO	SB2	34.00	
PB3	TO	PB4		36.00
PB4	TO	SB3	7.00	
PB4	TO	PB5		84.00
PB5	TO	PB6		108.00
PB6	TO	SB4	23.00	
PB6	TO	SB5	10.00	
PB6	TO	PB7		200.00
PB7	TO	SB6	45.00	
PB7	TO	SB7	36.00	
PB7	TO	PB8	259.00	
PB7	TO	PB9		114.00
PB9	TO	PB10	10.00	
PB9	TO	SB8	30.00	
PB9	TO	PB11		82.00
PB11	TO	PB12		110.00
PB11	TO	SB9	34.00	
PB12	TO	SB10	11.00	
PB12	TO	PB13	15.00	
PB12	TO	PB14		106.00
PB14	TO	SB11	13.00	
PB14	TO	CB1		63.00
		TOTALS	822.0	1098.0

* ADDITIONAL QUANTITIES LISTED ELSEWHERE

PULL BOX NO.	LOCATION*		653.0135 PULL BOXES STEEL 24X36-INCH EACH**	653.0140 PULL BOXES STEEL 24X42-INCH EACH**
PB1	187+10.31	51.03' LT		1.0
PB2	189+71.76	51.09' LT	1.0	
PB3	187+09.90	8.83' LT		1.0
PB4	187+09.60	8.92' RT		1.0
PB5	187+09.06	51.15' RT		1.0
PB6	186+55.49	51.21' RT	1.0	
PB7	185+55.54	51.20' RT		1.0
PB8	182+96.37	51.40' RT	1.0	
PB9	185+55.89	6.25' LT		1.0
PB10	185+65.40	3.75' LT	1.0	
PB11	185+56.78	51.38' LT		1.0
PB12	186+06.44	71.98' LT		1.0
PB13	186+06.26	87.02' LT	1.0	
PB14	186+59.52	71.63' LT		1.0
		TOTALS	5.0	9.0

* FINAL LOCATION TO BE DETERMINED BY THE ENGINEER IN THE FIELD.
** ADDITIONAL QUANTITIES LISTED ELSEWHERE

SIGNAL BASE NO.	LOCATION*		654.0101 CONCRETE BASES TYPE 1 EACH**	654.0102 CONCRETE BASES TYPE 2 EACH**
SB1	186+76.50	51.64' LT	1.0	
SB2	186+76.21	8.97' LT		1.0
SB3	187+02.57	8.99' RT	1.0	
SB4	186+78.41	50.69' RT		1.0
SB5	186+51.22	60.79' RT	1.0	
SB6	186+00.42	51.29' RT		1.0
SB7	185+91.35	51.07' RT	1.0	
SB8	185+84.93	5.12' LT		1.0
SB9	185+90.52	52.32' LT		1.0
SB10	186+04.52	61.52' LT	1.0	
SB11	186+66.07	61.91' LT		1.0
		TOTALS	5.0	6.0

* FINAL LOCATION TO BE DETERMINED BY THE ENGINEER IN THE FIELD.
** ADDITIONAL QUANTITIES LISTED ELSEWHERE

654.0217 CONCRETE CONTROL CABINET BASES, TYPE 9, SPECIAL
656.0200.03 ELECTRICAL SERVICE, METER BREAKER PEDESTAL,
STH 181 (N 76TH ST) & TOWER AVENUE

LOCATION*		BASE EACH**	METER L.S.
18+75.34	62.69' LT	1.0	1.0

* FINAL LOCATION TO BE DETERMINED BY THE ENGINEER IN THE FIELD.

** ADDITIONAL QUANTITES LISTED ELSEWHERE

LOC.	TO	LOC.	655.0305 CABLE TYPE UF 2-12 AWG GROUNDED L.F.*	655.0610 ELECTRICAL WIRE LIGHTING 12 AWG L.F.*
CB1	TO	SB2	131	---
SB2	TO	POLE	---	288
SB2	TO	SB6	323	---
SB6	TO	POLE	---	117
CB1	TO	SB11	46	---
SB11	TO	POLE	---	288
SB11	TO	SB8	224	---
SB8	TO	POLE	---	117
		TOTALS	724	810

* ADDITIONAL QUANTITIES LISTED ELSEWHERE

STH 181 & TOWER AVENUE
PAGE 2 OF 4

LOC.	TO	LOC.	655.0230 CABLE TRAFFIC SIGNAL 5-14 AWG L.F.*	655.0240 CABLE TRAFFIC SIGNAL 7-14 AWG L.F.*	655.0260 CABLE TRAFFIC SIGNAL 12-14 AWG L.F.*
CB1	TO	SB1	---	---	83
SB1	TO	6	19	---	---
SB1	TO	19	12	---	---
SB1	TO	PEDB	6	---	---
CB1	TO	SB2	---	---	131
SB2	TO	5	---	23	---
SB2	TO	PEDB	6	---	---
CB1	TO	SB3	---	---	128
SB3	TO	2	19	---	---
CB1	TO	SB4	---	---	252
SB4	TO	3	45	---	---
SB4	TO	20	12	---	---
SB4	TO	PEDB	6	---	---
CB1	TO	SB5	---	---	239
SB5	TO	9	19	---	---
SB5	TO	13	19	---	---
SB5	TO	21	12	---	---
SB5	TO	PEDB	6	---	---
CB1	TO	SB6	---	---	308
SB6	TO	14	19	---	---
SB6	TO	22	12	---	---
SB6	TO	PEDB	6	---	---
CB1	TO	SB7	---	---	299
SB7	TO	1	19	---	---
SB7	TO	15	12	---	---
SB7	TO	PEDB	6	---	---
CB1	TO	SB8	---	---	230
SB8	TO	4	---	23	---
SB8	TO	7	6	---	---
CB1	TO	SB9	---	---	187
SB9	TO	8	45	---	---
SB9	TO	16	12	---	---
SB9	TO	PEDB	6	---	---
CB1	TO	SB10	---	---	103
SB10	TO	10	19	---	---
SB10	TO	12	19	---	---
SB10	TO	17	12	---	---
SB10	TO	PEDB	6	---	---
CB1	TO	SB11	---	---	46
SB11	TO	11	19	---	---
SB11	TO	18	12	---	---
SB11	TO	PEDB	6	---	---
		TOTALS	417	46	2006

* ADDITIONAL QUANTITIES LISTED ELSEWHERE

LOC.	TO	LOC.	655.0515 ELECTRICAL WIRE TRAFFIC SIGNALS 10 AWG L.F.*
CB1	TO	SB1	83
SB1	TO	SB2	122
SB2	TO	SB3	71
SB3	TO	SB4	144
SB4	TO	SB5	39
SB5	TO	SB6	167
SB6	TO	SB7	87
SB7	TO	SB8	135
SB8	TO	SB9	117
SB9	TO	SB10	112
SB10	TO	SB11	89
SB11	TO	CB1	46
SB1	TO	PB1	40
SB2	TO	PB3	40
SB3	TO	PB4	13
SB4	TO	PB5	89
SB5	TO	PB6	16
SB7	TO	PB7	42
SB8	TO	PB9	36
SB9	TO	PB11	40
SB10	TO	PB12	17
SB11	TO	PB14	19
		TOTAL	1564

* ADDITIONAL QUANTITIES LISTED ELSEWHERE

661.0200.03 TEMPORARY TRAFFIC SIGNALS FOR INTERSECTION (LOCATION)	
LOCATION	L.S.
STH 181 (N 76TH ST) & TOWER AVENUE	1

SIGNAL BASE NO.	LOCATION		204.0195 REMOVING CONCRETE BASES EACH**
SB1	186+06	61' LT	1.0
SB2	186+82	51' LT	1.0
SB3	186+73	6' RT	1.0
SB4	186+66	52' RT	1.0
SB5	186+44	67' RT	1.0
SB6	186+10	65' RT	1.0
SB7	185+87	52' RT	1.0
SB8	185+95	52' LT	1.0
CB1	186+02	59' LT	1.0
		TOTAL	9.0

** ADDITIONAL QUANTITES LISTED ELSEWHERE

PULL BOX NO.	LOCATION		SPV.0060.09 REMOVING PULL BOXES EACH**
PB1	186+08	65' LT	1.0
PB2	186+20	80' LT	1.0
PB3	186+59	74' LT	1.0
PB4	186+76	53' LT	1.0
PB5	186+76	5' RT	1.0
PB6	186+76	53' RT	1.0
PB7	186+44	77' RT	1.0
PB8	186+05	70' RT	1.0
PB9	185+91	53' RT	1.0
PB10	185+91	5' LT	1.0
PB11	185+98	56' LT	1.0
		TOTAL	11.0

** ADDITIONAL QUANTITES LISTED ELSEWHERE

LOOP NO.	HOME RUN PB	LOCATION*		SIZE (FT)x(FT)	NO. OF TURNS	PAVEMENT TYPE	CONST. METHOD***	SDD INSTALLATION REFERENCE	652.0800 CONDUIT LOOP DETECTOR L.F.**	655.0700 LOOP DETECTOR LEAD IN CABLE L.F.**	655.0800 LOOP DETECTOR WIRE L.F.**
11	PB10	185+62.70	6.79' RT	6X20	3	ASPH	CABC	LOOP DETECTOR INSTALLED IN BASE COURSE WITH PULL (SPLICE) BOX OFF ROADWAY (OPTION 2)	68.0	180.0	204.0
12	PB10	185+90.73	6.82' RT	6X20	3	ASPH	CABC	LOOP DETECTOR INSTALLED IN BASE COURSE WITH PULL (SPLICE) BOX OFF ROADWAY (OPTION 2)	70.0	180.0	210.0
21	PB2	189+71.76	51.09' LT	6X28	3	ASPH	CABC	LOOP DETECTOR INSTALLED IN BASE COURSE WITH PULL (SPLICE) BOX OFF ROADWAY (OPTION 2)	82.0	298.0	246.0
41	PB13	186+19.57	89.49' LT	6X20	3	ASPH	CABC	LOOP DETECTOR INSTALLED IN BASE COURSE WITH PULL (SPLICE) BOX OFF ROADWAY (OPTION 2)	72.0	89.0	216.0
42	PB13	186+19.09	61.46' LT	6X20	3	ASPH	CABC	LOOP DETECTOR INSTALLED IN BASE COURSE WITH PULL (SPLICE) BOX OFF ROADWAY (OPTION 2)	74.0	89.0	222.0
43	PB13	186+30.57	89.65' LT	6X20	3	ASPH	CABC	LOOP DETECTOR INSTALLED IN BASE COURSE WITH PULL (SPLICE) BOX OFF ROADWAY (OPTION 2)	94.0	89.0	282.0
44	PB13	186+31.09	61.63' LT	6X20	3	ASPH	CABC	LOOP DETECTOR INSTALLED IN BASE COURSE WITH PULL (SPLICE) BOX OFF ROADWAY (OPTION 2)	96.0	89.0	288.0
51	PB4	187+13.82	0.22' RT	6X20	3	ASPH	CABC	LOOP DETECTOR INSTALLED IN BASE COURSE WITH PULL (SPLICE) BOX OFF ROADWAY (OPTION 2)	66.0	97.0	198.0
52	PB4	186+85.79	0.21' RT	6X20	3	ASPH	CABC	LOOP DETECTOR INSTALLED IN BASE COURSE WITH PULL (SPLICE) BOX OFF ROADWAY (OPTION 2)	66.0	97.0	198.0
61	PB8	182+95.72	28.80' RT	6X30	3	ASPH	CABC	LOOP DETECTOR INSTALLED IN BASE COURSE WITH PULL (SPLICE) BOX OFF ROADWAY (OPTION 2)	88.0	486.0	264.0
81	PB6	186+42.72	53.00' RT	5X18	3	ASPH	CABC	LOOP DETECTOR INSTALLED IN BASE COURSE WITH PULL (SPLICE) BOX OFF ROADWAY (OPTION 2)	64.0	193.0	192.0
82	PB6	186+32.72	53.00' RT	5X18	3	ASPH	CABC	LOOP DETECTOR INSTALLED IN BASE COURSE WITH PULL (SPLICE) BOX OFF ROADWAY (OPTION 2)	82.0	193.0	246.0
								TOTALS	840.0	1887.0	2520.0

* LOCATION IS TO FRONT CENTER OF DETECTOR LOOP. FINAL LOCATION TO BE DETERMINED BY THE FIELD ENGINEER
** ADDITIONAL QUANTITES LISTED ELSEWHERE
***CONSTRUCTION METHOD:
CUT= SAW CUT SLOTS INTO EXISTING PAVEMENT
FLOAT= FLOAT INTO NEW CONCRETE PAVEMENT.
TOP= INSTALL LOOP DETECTOR ON TOP OF CRUSHED AGGREGATE BASE COURSE
CABC= INSTALL LOOP DETECTOR IN CRUSHED AGGREGATE BASE COURSE.

REMOVE TRAFFIC SIGNALS, TOWER AVENUE		
CATEGORY	PROJECT	SPV.0105.05 LS
0010	2140-08-73	1
	TOTAL	1

TRANSPORT EXISTING TRAFFIC SIGNALS, TOWER AVENUE		
CATEGORY	PROJECT	SPV.0105.21 LS
0070	2140-08-73	1
	TOTAL	1

SUMMARY OF STATE FURNISHED MATERIALS

SPV.0105.14 TRAFFIC SIGNALS AND INTERSECTION LIGHTING, SERVITE DRIVE/DEAN ROAD
1 - LUMP SUM

QUANT. EACH	DESCRIPTION
6	PEDESTAL BASES
6	TRANSFORMER BASES, STANDARD, 11 1/2" BOLT CIRCLE
2	POLES, TYPE 2
2	POLES, TYPE 3
2	POLES, TYPE 4
5	TRAFFIC SIGNAL STANDARDS, ALUMINUM, 13'
1	TRAFFIC SIGNAL STANDARDS, ALUMINUM, 15'
2	TROMBONE ARMS, 15'
2	TROMBONE ARMS, 20'
9	TRAFFIC SIGNAL FACES, 3-12" VERTICAL, LED MODULES
2	TRAFFIC SIGNAL FACES, 5-12" VERTICAL, LED MODULES
4	TRAFFIC SIGNAL FACES, 3-12" HORIZONTAL, LED MODULES
13	BACKPLATES, 3 SECTION, 12" SIGNAL FACES
2	BACKPLATES, 5 SECTION, 12" SIGNAL FACES
8	PEDESTRIAN SIGNAL FACES, 12", LED MODULES
10	PEDESTRIAN PUSH BUTTONS
1	TRAFFIC SIGNAL MOUNTING HARDWARE, STH 181 (N 76TH ST) AND SERVITE DRIVE/DEAN ROAD
2	LUMINAIRES, UTILITY, 150 W
4	LUMINAIRES, UTILITY, 250 W
6	LUMINAIRE ARMS, SINGLE MEMBER, 4" CLAMP, 6'

NOTE: THIS TABLE IS FOR INFORMATION ONLY

PEDESTAL BASES*
TRANSFORMER BASES, BREAKAWAY, 11 1/2 INCH BOLT CIRCLE*
POLES, TYPE 2 - ALUMINUM*
POLES, TYPE 3 *
POLES, TYPE 4 *
TRAFFIC SIGNAL STANDARDS, ALUMINUM, 13-FOOT*
TRAFFIC SIGNAL STANDARDS, ALUMINUM, 15-FOOT*
TROMBONE ARMS, 15-FOOT*
TROMBONE ARMS, 20-FOOT*
LUMINAIRES, UTILITY, 150 W*
LUMINAIRES, UTILITY, 250 W*
LUMINAIRE ARMS, SINGLE MEMBER, 4-INCH CLAMP, 6-FOOT*
PEDESTRIAN PUSH BUTTONS*

SIG. BASE NO.	PED. BASE EACH**	TRANS. BASE EACH**	POLE TYPE 2 EACH**	POLE TYPE 3 EACH**	POLE TYPE 4 EACH**	13-FOOT STAND. EACH**	15-FOOT STAND. EACH**	15-FOOT TROMB. EACH**	20-FOOT TROMB. EACH**	LUMIN. 150 W EACH**	LUMIN. 250 W EACH**	ARM 6-FOOT EACH**	PUSH BUTTON EACH**
SB1		1.0	1.0						1.0				1.0
SB2	1.0					1.0							1.0
SB3		1.0		1.0				1.0		1.0		1.0	1.0
SB4	1.0					1.0							1.0
SB5		1.0			1.0						2.0	2.0	1.0
SB6	1.0						1.0						
SB7		1.0	1.0						1.0				1.0
SB8	1.0					1.0							1.0
SB9		1.0		1.0				1.0		1.0		1.0	1.0
SB10	1.0					1.0							1.0
SB11		1.0			1.0						2.0	2.0	1.0
SB12	1.0					1.0							
TOTALS	6.0	6.0	2.0	2.0	2.0	5.0	1.0	2.0	2.0	2.0	4.0	6.0	10.0

* INCIDENTAL TO ITEM, "TRAFFIC SIGNALS AND INTERSECTION LIGHTING, SERVITE DRIVE/DEAN ROAD"
** ADDITIONAL QUANTITIES LISTED ELSEWHERE

NOTE: THIS TABLE IS FOR INFORMATION ONLY

TRAFFIC SIGNAL FACES, 3-12 INCH VERTICAL, LED MODULES*
TRAFFIC SIGNAL FACES, 5-12 INCH VERTICAL, LED MODULES*
TRAFFIC SIGNAL FACES, 3-12 INCH HORIZONTAL, LED MODULES*
BACKPLATES, 3 SECTION, 12-INCH SIGNAL FACES*
BACKPLATES, 5 SECTION, 12-INCH SIGNAL FACES*
COUNTDOWN PEDESTRIAN SIGNAL FACES, 12-INCH, LED MODULES*

SIG. HEAD NO.	SIG. BASE NO.	3-12" VERT. EACH**	5-12" VERT. EACH**	3-12" HORZ. EACH**	BCKPLT 3-SEC. EACH**	BCKPLT 5-SEC. EACH**	PED. FACE EACH**
1	SB4	1.0			1.0		
2	SB12	1.0			1.0		
3	SB1			1.0	1.0		
4	SB6		1.0			1.0	
5	SB11		1.0			1.0	
6	SB10	1.0			1.0		
7	SB5	1.0			1.0		
8	SB6	1.0			1.0		
9	SB7			1.0	1.0		
10	SB2	1.0			1.0		
11	SB8	1.0			1.0		
12	SB9			1.0	1.0		
13	SB8	1.0			1.0		
14	SB2	1.0			1.0		
15	SB3			1.0	1.0		
16	SB4						1.0
17	SB7						1.0
18	SB8						1.0
19	SB9						1.0
20	SB10						1.0
21	SB1						1.0
22	SB2						1.0
23	SB3						1.0
TOTALS		9.0	2.0	4.0	13.0	2.0	8.0

* INCIDENTAL TO ITEM, "TRAFFIC SIGNALS AND INTERSECTION LIGHTING, SERVITE DRIVE/DEAN ROAD"
** ADDITIONAL QUANTITIES LISTED ELSEWHERE

LOC.	TO	LOC.	652.0225 CONDUIT RIGID NONMETALLIC SCHEDULE 40 2-INCH L.F.*	652.0235 CONDUIT RIGID NONMETALLIC SCHEDULE 40 3-INCH L.F.*	652.0605 CONDUIT SPECIAL 2-INCH L.F.*
CB1	TO	PB1		117.00	
PB1	TO	SB2	6.00		
PB1	TO	PB2		42.00	
PB2	TO	PB3	154.00		
PB1	TO	PB4		110.00	
PB4	TO	SB3	8.00		
PB4	TO	PB5		120.00	
PB5	TO	SB4	36.00		
PB5	TO	PB6	273.00		
PB5	TO	PB7		84.00	
PB7	TO	SB5	36.00		
PB7	TO	PB8		36.00	
PB8	TO	SB6	13.00		
PB8	TO	PB9		84.00	
PB9	TO	SB7	34.00		
PB9	TO	PB10		110.00	
PB10	TO	SB8	9.00		
PB10	TO	PB11		26.00	
PB11	TO	PB12	182.00		40.00
PB10	TO	PB13		116.00	
PB13	TO	SB9	8.00		
PB13	TO	PB14		104.00	
PB14	TO	SB10	33.00		
PB14	TO	PB15	166.00		
PB15	TO	PB16	130.00		
PB14	TO	PB17		102.00	
PB17	TO	SB11	32.00		
PB17	TO	PB18		36.00	
PB18	TO	SB12	9.00		
PB18	TO	PB19		92.00	
PB19	TO	SB1	30.00		
PB19	TO	CB1		42.00	
		TOTALS	1159.0	1221.0	40.0

* ADDITIONAL QUANTITIES LISTED ELSEWHERE

PULL BOX NO.	LOCATION*		653.0135 PULL BOXES STEEL 24X36-INCH EACH**	653.0140 PULL BOXES STEEL 24X42-INCH EACH**
PB1	206+26.51	69.71' RT		1.0
PB2	206+26.07	90.50' RT	1.0	
PB3	14+43.93 'D'	28.29' LT	1.0	
PB4	205+71.69	69.27' RT		1.0
PB5	205+16.36	51.39' RT		1.0
PB6	202+43.17	51.44' RT	1.0	
PB7	205+16.62	9.15' RT		1.0
PB8	205+16.68	8.95' LT		1.0
PB9	205+17.28	51.42' LT		1.0
PB10	205+67.33	70.54' LT		1.0
PB11	205+67.55	83.92' LT	1.0	
PB12	9+25.03 'D'	28.10' RT	1.0	
PB13	206+25.94	69.97' LT		1.0
PB14	206+78.34	59.86' LT		1.0
PB15	208+49.60	55.58' LT	1.0	
PB16	209+83.43	54.52' LT	1.0	
PB17	206+76.33	8.97' LT		1.0
PB18	206+75.76	8.62' RT		1.0
PB19	206+73.99	54.26' RT		1.0
		TOTALS	7.0	12.0

* FINAL LOCATION TO BE DETERMINED BY THE ENGINEER IN THE FIELD.
** ADDITIONAL QUANTITIES LISTED ELSEWHERE

654.0217 656.0200.04	CONCRETE CONTROL CABINET BASES, TYPE 9, SPECIAL ELECTRICAL SERVICE, METER BREAKER PEDESTAL, STH 181 (N 76TH ST) & SERVITE DRIVE/DEAN ROAD		
LOCATION*		BASE EACH**	METER L.S.
206+64.21	64.09' RT	1.0	1.0

* FINAL LOCATION TO BE DETERMINED BY THE ENGINEER IN THE FIELD.
** ADDITIONAL QUANTITES LISTED ELSEWHERE

SIGNAL BASE NO.	LOCATION*		654.0101 CONCRETE BASES TYPE 1 EACH**	654.0102 CONCRETE BASES TYPE 2 EACH**
SB1	206+44.84	55.23' RT		1.0
SB2	206+30.19	64.36' RT	1.0	
SB3	205+68.36	61.51' RT		1.0
SB4	205+52.24	52.37' RT	1.0	
SB5	205+52.71	8.98' RT		1.0
SB6	205+29.43	8.90' LT	1.0	
SB7	205+51.51	52.44' LT		1.0
SB8	205+66.53	61.52' LT	1.0	
SB9	206+31.84	63.73' LT		1.0
SB10	206+44.82	54.58' LT	1.0	
SB11	206+44.22	8.93' LT		1.0
SB12	206+70.55	8.78' RT	1.0	
		TOTALS	6.0	6.0

* FINAL LOCATION TO BE DETERMINED BY THE ENGINEER IN THE FIELD.
** ADDITIONAL QUANTITIES LISTED ELSEWHERE

LOC.	TO	LOC.	655.0305 CABLE TYPE UF 2-12 AWG GROUNDED L.F.*	655.0610 ELECTRICAL WIRE LIGHTING 12 AWG L.F.*
CB1	TO	SB3	127	---
SB3	TO	POLE	---	117
SB3	TO	SB5	164	---
SB5	TO	POLE	---	288
CB1	TO	SB11	134	---
SB11	TO	POLE	---	117
SB11	TO	SB9	161	---
SB9	TO	POLE	---	288
		TOTALS	586	810

* ADDITIONAL QUANTITIES LISTED ELSEWHERE

STH 181 & SERVITE DRIVE/DEAN ROAD
PAGE 2 OF 4

LOC.	TO	LOC.	655.0230 CABLE TRAFFIC SIGNAL 5-14 AWG L.F.*	655.0240 CABLE TRAFFIC SIGNAL 7-14 AWG L.F.*	655.0260 CABLE TRAFFIC SIGNAL 12-14 AWG L.F.*
CB1	TO	SB1	---	---	56
SB1	TO	3	45	---	---
SB1	TO	21	12	---	---
SB1	TO	PEDB	6	---	---
CB1	TO	SB2	---	---	64
SB2	TO	10	19	---	---
SB2	TO	14	19	---	---
SB2	TO	22	12	---	---
SB2	TO	PEDB	6	---	---
CB1	TO	SB3	---	---	127
SB3	TO	15	40	---	---
SB3	TO	23	12	---	---
SB3	TO	PEDB	6	---	---
CB1	TO	SB4	---	---	221
SB4	TO	1	19	---	---
SB4	TO	16	12	---	---
SB4	TO	PEDB	6	---	---
CB1	TO	SB5	---	---	269
SB5	TO	7	19	---	---
SB5	TO	PEDB	6	---	---
CB1	TO	SB6	---	---	270
SB6	TO	4	---	23	---
SB6	TO	8	19	---	---
CB1	TO	SB7	---	---	339
SB7	TO	9	45	---	---
SB7	TO	17	12	---	---
SB7	TO	PEDB	6	---	---
CB1	TO	SB8	---	---	290
SB8	TO	11	19	---	---
SB8	TO	13	19	---	---
SB8	TO	18	12	---	---
SB8	TO	PEDB	6	---	---
CB1	TO	SB9	---	---	225
SB9	TO	12	40	---	---
SB9	TO	19	12	---	---
SB9	TO	PEDB	6	---	---
CB1	TO	SB10	---	---	192
SB10	TO	6	19	---	---
SB10	TO	20	12	---	---
SB10	TO	PEDB	6	---	---
CB1	TO	SB11	---	---	134
SB11	TO	5	---	23	---
SB11	TO	PEDB	6	---	---
CB1	TO	SB12	---	---	87
SB12	TO	2	19	---	---
		TOTALS	497	46	2274

* ADDITIONAL QUANTITIES LISTED ELSEWHERE

LOC.	TO	LOC.	655.0515 ELECTRICAL WIRE TRAFFIC SIGNALS 10 AWG L.F.*
CB1	TO	SB2	47
SB2	TO	SB3	81
SB3	TO	SB4	116
SB4	TO	SB5	126
SB5	TO	SB6	79
SB6	TO	SB7	101
SB7	TO	SB8	110
SB8	TO	SB9	87
SB9	TO	SB10	105
SB10	TO	SB11	128
SB11	TO	SB12	71
SB12	TO	SB1	99
SB1	TO	CB1	50
SB2	TO	PB1	15
SB3	TO	PB4	12
SB4	TO	PB5	42
SB5	TO	PB7	42
SB6	TO	PB8	19
SB7	TO	PB9	40
SB8	TO	PB10	15
SB9	TO	PB13	14
SB10	TO	PB14	39
SB11	TO	PB17	38
SB12	TO	PB18	15
CB1	TO	PB19	26
		TOTAL	1517

* ADDITIONAL QUANTITIES LISTED ELSEWHERE

661.0200.04 TEMPORARY TRAFFIC SIGNALS FOR INTERSECTION (LOCATION)	
LOCATION	L.S.
STH 181 (N 76TH ST) & SERVITE DRIVE/DEAN ROAD	1

SIGNAL BASE NO.	LOCATION		204.0195 REMOVING CONCRETE BASES EACH**
SB1	205+68	69' LT	1.0
SB2	206+25	70' LT	1.0
SB3	206+45	51' LT	1.0
SB4	206+54	7' RT	1.0
SB5	206+47	51' RT	1.0
SB6	206+28	70' RT	1.0
SB7	205+71	75' RT	1.0
SB8	205+52	54' RT	1.0
SB9	205+46	7' LT	1.0
SB10	205+54	52' LT	1.0
CB1	206+74	62' RT	1.0
		TOTAL	11.0

** ADDITIONAL QUANTITES LISTED ELSEWHERE

PULL BOX NO.	LOCATION		SPV.0060.09 REMOVING PULL BOXES EACH**
PB1	205+69	80' LT	1.0
PB2	205+69	84' LT	1.0
PB3	206+25	79' LT	1.0
PB4	206+79	56' LT	1.0
PB5	206+76	5' RT	1.0
PB6	206+74	51' RT	1.0
PB7	206+26	172' RT	1.0
PB8	206+27	93' RT	1.0
PB9	206+27	81' RT	1.0
PB10	205+69	80' RT	1.0
PB11	205+23	53' RT	1.0
PB12	205+24	4' LT	1.0
PB13	205+07	1' LT	1.0
PB14	205+25	53' LT	1.0
PB15	205+67	173' LT	1.0
		TOTAL	15.0

** ADDITIONAL QUANTITES LISTED ELSEWHERE

STH 181 & SERVITE DRIVE/DEAN ROAD
PAGE 3 OF 4

LOOP NO.	HOME RUN PB	LOCATION*		SIZE (FT)x(FT)	NO. OF TURNS	PAVEMENT TYPE	CONST. METHOD***	SDD INSTALLATION REFERENCE	652.0800 CONDUIT LOOP DETECTOR L.F.**	655.0700 LOOP DETECTOR LEAD IN CABLE L.F.**	655.0800 LOOP DETECTOR WIRE L.F.**
11	PB8	205+17.65	0.12' RT	6X20	3	ASPH	CABC	LOOP DETECTOR INSTALLED IN BASE COURSE WITH PULL (SPLICE) BOX OFF ROADWAY (OPTION 2)	64.0	215.0	192.0
12	PB8	205+45.68	0.12' RT	6X20	3	ASPH	CABC	LOOP DETECTOR INSTALLED IN BASE COURSE WITH PULL (SPLICE) BOX OFF ROADWAY (OPTION 2)	74.0	215.0	222.0
21	PB16	209+82.43	29.58' LT	6X28	3	ASPH	CABC	LOOP DETECTOR INSTALLED IN BASE COURSE WITH PULL (SPLICE) BOX OFF ROADWAY (OPTION 2)	90.0	425.0	270.0
22	PB15	208+50.38	30.63' LT	6X28	3	ASPH	CABC	LOOP DETECTOR INSTALLED IN BASE COURSE WITH PULL (SPLICE) BOX OFF ROADWAY (OPTION 2)	90.0	430.0	270.0
41	PB12	9+37.99 'D'	10.77' RT	6X18	3	ASPH	CABC	LOOP DETECTOR INSTALLED IN BASE COURSE WITH PULL (SPLICE) BOX OFF ROADWAY (OPTION 2)	68.0	442.0	204.0
42	PB11	205+80.09	91.49' LT	6X20	3	ASPH	CABC	LOOP DETECTOR INSTALLED IN BASE COURSE WITH PULL (SPLICE) BOX OFF ROADWAY (OPTION 2)	76.0	252.0	228.0
43	PB11	205+80.77	63.47' LT	6X20	3	ASPH	CABC	LOOP DETECTOR INSTALLED IN BASE COURSE WITH PULL (SPLICE) BOX OFF ROADWAY (OPTION 2)	72.0	252.0	216.0
44	PB11	205+90.84	91.39' LT	6X20	3	ASPH	CABC	LOOP DETECTOR INSTALLED IN BASE COURSE WITH PULL (SPLICE) BOX OFF ROADWAY (OPTION 2)	96.0	252.0	288.0
45	PB11	205+91.52	63.37' LT	6X20	3	ASPH	CABC	LOOP DETECTOR INSTALLED IN BASE COURSE WITH PULL (SPLICE) BOX OFF ROADWAY (OPTION 2)	94.0	252.0	282.0
51	PB17	206+80.05	0.11' RT	6X20	3	ASPH	CABC	LOOP DETECTOR INSTALLED IN BASE COURSE WITH PULL (SPLICE) BOX OFF ROADWAY (OPTION 2)	66.0	78.0	198.0
52	PB17	206+52.05	0.23' RT	6X20	3	ASPH	CABC	LOOP DETECTOR INSTALLED IN BASE COURSE WITH PULL (SPLICE) BOX OFF ROADWAY (OPTION 2)	68.0	442.0	204.0
61	PB6	202+61.26	29.68' RT	6X28	3	ASPH	CABC	LOOP DETECTOR INSTALLED IN BASE COURSE WITH PULL (SPLICE) BOX OFF ROADWAY (OPTION 2)	76.0	252.0	228.0
81	PB3	14+43.87 'D'	10.86' LT	6X18	3	ASPH	CABC	LOOP DETECTOR INSTALLED IN BASE COURSE WITH PULL (SPLICE) BOX OFF ROADWAY (OPTION 2)	72.0	252.0	216.0
82	PB2	206+15.18	92.95' RT	6X20	3	ASPH	CABC	LOOP DETECTOR INSTALLED IN BASE COURSE WITH PULL (SPLICE) BOX OFF ROADWAY (OPTION 2)	96.0	252.0	288.0
83	PB2	206+15.20	64.92' RT	6X20	3	ASPH	CABC	LOOP DETECTOR INSTALLED IN BASE COURSE WITH PULL (SPLICE) BOX OFF ROADWAY (OPTION 2)	94.0	252.0	282.0
84	PB2	206+04.21	92.88' RT	6X20	3	ASPH	CABC	LOOP DETECTOR INSTALLED IN BASE COURSE WITH PULL (SPLICE) BOX OFF ROADWAY (OPTION 2)	66.0	78.0	198.0
85	PB2	206+04.24	64.84' RT	6X20	3	ASPH	CABC	LOOP DETECTOR INSTALLED IN BASE COURSE WITH PULL (SPLICE) BOX OFF ROADWAY (OPTION 2)	66.0	78.0	198.0
								TOTALS	1328.0	4419.0	3984.0

* LOCATION IS TO FRONT CENTER OF DETECTOR LOOP. FINAL LOCATION TO BE DETERMINED BY THE FIELD ENGINEER
** ADDITIONAL QUANTITES LISTED ELSEWHERE
***CONSTRUCTION METHOD:
CUT= SAW CUT SLOTS INTO EXISTING PAVEMENT
FLOAT= FLOAT INTO NEW CONCRETE PAVEMENT.
TOP= INSTALL LOOP DETECTOR ON TOP OF CRUSHED AGGREGATE BASE COURSE
CABC= INSTALL LOOP DETECTOR IN CRUSHED AGGREGATE BASE COURSE.

REMOVE TRAFFIC SIGNALS, SERVITE DRIVE/DEAN ROAD

CATEGORY	PROJECT	SPV.0105.06 LS
0010	2140-08-73	1
	TOTAL	1

TRANSPORT EXISTING TRAFFIC SIGNALS, SERVITE DRIVE/DEAN ROAD

CATEGORY	PROJECT	SPV.0105.22 LS
0070	2140-08-73	1
	TOTAL	1

SUMMARY OF STATE FURNISHED MATERIALS	
SPV.0105.15	TRAFFIC SIGNALS AND INTERSECTION LIGHTING, STH 100 (BROWN DEER RD) 1 - LUMP SUM
QUANT. EACH	DESCRIPTION
2	PEDESTAL BASES
2	TRAFFIC SIGNAL STANDARDS, ALUMINUM, 13'
2	TRAFFIC SIGNAL FACES, 3-12" VERTICAL, LED MODULES
1	TRAFFIC SIGNAL MOUNTING HARDWARE, STH 181 (N 76TH ST) AND STH 100 (BROWN DEER RD)

NOTE: THIS TABLE IS FOR INFORMATION ONLY

TRAFFIC SIGNAL FACES, 3-12 INCH VERTICAL, LED MODULES*

SIG. HEAD NO.	SIG. BASE NO.	3-12" VERT. EACH**
1	SB1	1.0
2	SB18	1.0
	TOTALS	2.0

* INCIDENTAL TO ITEM, "TRAFFIC SIGNALS AND INTERSECTION LIGHTING, STH 100 (BROWN DEER RD)"
** ADDITIONAL QUANTITIES LISTED ELSEWHERE

NOTE: THIS TABLE IS FOR INFORMATION ONLY

PEDESTAL BASES*
TRAFFIC SIGNAL STANDARDS, ALUMINUM, 13-FOOT*

SIG. BASE NO.	PED. BASE EACH**	13-FOOT STAND. EACH**
SB1	1.0	1.0
SB18	1.0	1.0
TOTALS	2.0	2.0

* INCIDENTAL TO ITEM, "TRAFFIC SIGNALS AND INTERSECTION LIGHTING, STH 100 (BROWN DEER RD)"
** ADDITIONAL QUANTITIES LISTED ELSEWHERE

LOC.	TO	LOC.	652.0225 CONDUIT RIGID NONMETALLIC SCHEDULE 40 2-INCH L.F.*
SB1	TO	PB1	4.00
PB2	TO	PB8	235.00
PB21	TO	PB28	28.00
PB28	TO	PB29	225.00
SB18	TO	PB26	14.00
		TOTALS	506.0

* ADDITIONAL QUANTITIES LISTED ELSEWHERE

PULL BOX NO.	LOCATION*		653.0135 PULL BOXES STEEL 24X36-INCH EACH**
PB8	229+96.76 'SE1'	8.68' LT	1.0
PB28	120+77.64 'BD'	91.56' LT	1.0
PB29	121+60.87 'BD'	300.66' L	1.0
		TOTALS	3.0

* FINAL LOCATION TO BE DETERMINED BY THE ENGINEER IN THE FIELD.
** ADDITIONAL QUANTITIES LISTED ELSEWHERE

SIGNAL BASE NO.	LOCATION*		654.0101 CONCRETE BASES TYPE 1 EACH**
SB1	123+81.93 'BD	70.23' RT	1.0
SB18	120+33.38 'BD	78.03' LT	1.0
		TOTALS	2.0

* FINAL LOCATION TO BE DETERMINED BY THE ENGINEER IN THE FIELD.
** ADDITIONAL QUANTITIES LISTED ELSEWHERE

LOC.	TO	LOC.	655.0230 CABLE TRAFFIC SIGNAL 5-14 AWG L.F.*
SB1	TO	4	19
SB1	TO	P3	12
SB18	TO	18	19
SB18	TO	P7	12
		TOTAL	62

* ADDITIONAL QUANTITIES LISTED ELSEWHERE

LOC.	TO	LOC.	655.0515 ELECTRICAL WIRE TRAFFIC SIGNALS 10 AWG L.F.*
SB1	TO	PB1	10
SB18	TO	PB26	20
		TOTAL	30

* ADDITIONAL QUANTITIES LISTED ELSEWHERE

STH 181 & STH 100 (BROWN DEER RD)
PAGE 1 OF 2

TEMPORARY TRAFFIC SIGNALS FOR INTERSECTIONS PARTIAL, STH 181 (NORTH 76TH STREET) AND STH 100 (BROWN DEER ROAD)		
CATEGORY	PROJECT	SPV.0105.27 LS
0010	2140-08-73	1
	TOTAL	1

SIGNAL BASE NO.	LOCATION		204.0195 REMOVING CONCRETE BASES EACH**
SB1	123+79 'BD'	64' RT	1.0
SB2	120+39 'BD'	79' LT	1.0
		TOTAL	2.0

** ADDITIONAL QUANTITES LISTED ELSEWHERE

PULL BOX NO.	LOCATION		SPV.0060.09 REMOVING PULL BOXES EACH**
PB1	120+76 BD'	90' LT	1.0
PB2	229+35 'SE'	29' LT	1.0
PB3	235+38 'NW'	28' RT	1.0
PB4	236+38 'NW'	21' RT	1.0
		TOTAL	4.0

** ADDITIONAL QUANTITES LISTED ELSEWHERE

TRANSPORT EXISTING TRAFFIC SIGNALS, STH 100 (BROWN DEER ROAD)		
CATEGORY	PROJECT	SPV.0105.23 LS
0070	2140-08-73	1
	TOTAL	1

REMOVE TRAFFIC SIGNALS, STH 100 (BROWN DEER ROAD)		
CATEGORY	PROJECT	SPV.0105.07 LS
0010	2140-08-73	1
	TOTAL	1

LOOP NO.	HOME RUN PB	LOCATION*	SIZE (FT)x(FT)	NO. OF TURNS	PAVEMENT TYPE	CONST. METHOD***	SDD INSTALLATION REFERENCE	652.0800 CONDUIT LOOP DETECTOR L.F.**	655.0700 LOOP DETECTOR LEAD IN CABLE L.F.**	655.0800 LOOP DETECTOR WIRE L.F.**
41	PB8	229+96.76 'SE'	18.26' RT	6x16	3	ASPH	CABC	LOOP DETECTOR INSTALLED IN BASE COURSE WITH PULL (SPLICE) BOX OFF ROADWAY (OPTION 2)	58.0	323.0	174.0
42	PB7	123+64.81 'BD'	94.08' RT	6X20	3	ASPH	CABC	LOOP DETECTOR INSTALLED IN BASE COURSE WITH PULL (SPLICE) BOX OFF ROADWAY (OPTION 2)	74.0	33.0	222.0
43	PB2	123+52.13 'BD'	93.99' RT	6X20	3	ASPH	CABC	LOOP DETECTOR INSTALLED IN BASE COURSE WITH PULL (SPLICE) BOX OFF ROADWAY (OPTION 2)	98.0	82.0	294.0
44	PB7	123+70.00 'BD'	66.53' RT	6X20	3	ASPH	CABC	LOOP DETECTOR INSTALLED IN BASE COURSE WITH PULL (SPLICE) BOX OFF ROADWAY (OPTION 2)	80.0	33.0	240.0
45	PB2	123+57.32 'BD'	66.44' RT	6X20	3	ASPH	CABC	LOOP DETECTOR INSTALLED IN BASE COURSE WITH PULL (SPLICE) BOX OFF ROADWAY (OPTION 2)	92.0	82.0	276.0
81	PB29	236+01.81 'NW'	9.10' RT	6X14	5	ASPH	CABC	LOOP DETECTOR INSTALLED IN BASE COURSE WITH PULL (SPLICE) BOX OFF ROADWAY (OPTION 2)	56.0	731.0	280.0
82	PB28	120+54.54 'BD'	97.31' LT	6x20	4	ASPH	CABC	LOOP DETECTOR INSTALLED IN BASE COURSE WITH PULL (SPLICE) BOX OFF ROADWAY (OPTION 2)	94.0	450.0	376.0
83	PB28	120+46.76 'BD'	70.38' LT	6x20	4	ASPH	CABC	LOOP DETECTOR INSTALLED IN BASE COURSE WITH PULL (SPLICE) BOX OFF ROADWAY (OPTION 2)	94.0	450.0	376.0
84	PB28	120+67.91 'BD'	97.15' LT	6x20	4	ASPH	CABC	LOOP DETECTOR INSTALLED IN BASE COURSE WITH PULL (SPLICE) BOX OFF ROADWAY (OPTION 2)	70.0	450.0	280.0
85	PB28	120+60.13 'BD'	70.22' LT	6x20	4	ASPH	CABC	LOOP DETECTOR INSTALLED IN BASE COURSE WITH PULL (SPLICE) BOX OFF ROADWAY (OPTION 2)	70.0	450.0	280.0
								TOTALS	786.0	3084.0	2798.0

* LOCATION IS TO FRONT CENTER OF DETECTOR LOOP. FINAL LOCATION TO BE DETERMINED BY THE FIELD ENGINEER
** ADDITIONAL QUANTITES LISTED ELSEWHERE
***CONSTRUCTION METHOD:
CUT= SAW CUT SLOTS INTO EXISTING PAVEMENT
FLOAT= FLOAT INTO NEW CONCRETE PAVEMENT.
TOP= INSTALL LOOP DETECTOR ON TOP OF CRUSHED AGGREGATE BASE COURSE
CABC= INSTALL LOOP DETECTOR IN CRUSHED AGGREGATE BASE COURSE.

SUMMARY OF STATE FURNISHED MATERIALS

SPV.0105.17 TRAFFIC SIGNALS AND INTERSECTION LIGHTING, NORTHRIDGE DRIVE
1 - LUMP SUM

QUANT. EACH	DESCRIPTION
11	PEDESTAL BASES
6	TRANSFORMER BASES, STANDARD, 11 1/2" BOLT CIRCLE
2	POLES, TYPE 2
3	POLES, TYPE 4
1	POLES, TYPE 5
11	TRAFFIC SIGNAL STANDARDS, ALUMINUM, 13'
2	TROMBONE ARMS, 15'
13	TRAFFIC SIGNAL FACES, 3-12" VERTICAL, LED MODULES
2	TRAFFIC SIGNAL FACES, 3-12" HORIZONTAL, LED MODULES
15	BACKPLATES, 3 SECTION, 12" SIGNAL FACES
8	PEDESTRIAN SIGNAL FACES, 12", LED MODULES
9	PEDESTRIAN PUSH BUTTONS
1	TRAFFIC SIGNAL MOUNTING HARDWARE, STH 181 (N 76TH ST) AND NORTHRIDGE DRIVE
1	LUMINAIRES, UTILITY, 150 W
6	LUMINAIRES, UTILITY, 250 W
7	LUMINAIRE ARMS, SINGLE MEMBER, 4" CLAMP, 6'

NOTE: THIS TABLE IS FOR INFORMATION ONLY

PEDESTAL BASES*
TRANSFORMER BASES, BREAKAWAY, 11 1/2 INCH BOLT CIRCLE*
POLES, TYPE 2 - ALUMINUM*
POLES, TYPE 4 *
POLES, TYPE 5 *
TRAFFIC SIGNAL STANDARDS, ALUMINUM, 13-FOOT*
TROMBONE ARMS, 15-FOOT*
LUMINAIRES, UTILITY, 150 W*
LUMINAIRES, UTILITY, 250 W*
LUMINAIRE ARMS, SINGLE MEMBER, 4-INCH CLAMP, 6-FOOT*
PEDESTRIAN PUSH BUTTONS*

SIG. BASE NO.	PED. BASE EACH**	TRANS. BASE EACH**	POLE TYPE 2 EACH**	POLE TYPE 4 EACH**	POLE TYPE 5 EACH**	13-FOOT STAND. EACH**	15-FOOT TROMB. EACH**	LUMIN. 150 W EACH**	LUMIN. 250 W EACH**	ARM 6-FOOT EACH**	PUSH BUTTON EACH**
SB1	1.0					1.0					
SB2	1.0					1.0					
SB3	1.0					1.0					1.0
SB4		1.0		1.0					2.0	2.0	1.0
SB5	1.0					1.0					
SB6	1.0					1.0					
SB7	1.0					1.0					
SB8		1.0	1.0				1.0				1.0
SB9		1.0		1.0				1.0		1.0	
SB10	1.0					1.0					1.0
SB11	1.0					1.0					1.0
SB12		1.0			1.0				2.0	2.0	
SB13	1.0					1.0					1.0
SB14	1.0					1.0					1.0
SB15		1.0		1.0					2.0	2.0	1.0
SB16	1.0					1.0					
SB17		1.0	1.0				1.0				1.0
TOTALS	11.0	6.0	2.0	3.0	1.0	11.0	2.0	1.0	6.0	7.0	9.0

* INCIDENTAL TO ITEM, "TRAFFIC SIGNALS AND INTERSECTION LIGHTING, NORTHRIDGE DRIVE"
** ADDITIONAL QUANTITIES LISTED ELSEWHERE

NOTE: THIS TABLE IS FOR INFORMATION ONLY

TRAFFIC SIGNAL FACES, 3-12 INCH VERTICAL, LED MODULES*
TRAFFIC SIGNAL FACES, 5-12 INCH VERTICAL, LED MODULES*
TRAFFIC SIGNAL FACES, 3-12 INCH HORIZONTAL, LED MODULES*
BACKPLATES, 3 SECTION, 12-INCH SIGNAL FACES*
BACKPLATES, 5 SECTION, 12-INCH SIGNAL FACES*
COUNTDOWN PEDESTRIAN SIGNAL FACES, 12-INCH, LED MODULES*

SIG. HEAD NO.	SIG. BASE NO.	3-12" VERT. EACH**	3-12" HORZ. EACH**	BCKPLT 3-SEC. EACH**	PED. FACE EACH**
1	SB3	1.0		1.0	
2	SB16	1.0		1.0	
3	SB17		1.0	1.0	
4	SB5	1.0		1.0	
5	SB14	1.0		1.0	
6	SB15	1.0		1.0	
7	SB14	1.0		1.0	
8	SB5	1.0		1.0	
9	SB8		1.0	1.0	
10	SB11	1.0		1.0	
11	SB1	1.0		1.0	
12	SB2	1.0		1.0	
13	SB9	1.0		1.0	
14	SB6	1.0		1.0	
15	SB7	1.0		1.0	
16	SB3				1.0
17	SB11				1.0
18	SB10				1.0
19	SB8				1.0
20	SB11				1.0
21	SB13				1.0
22	SB14				1.0
23	SB17				1.0
	TOTALS	13.0	2.0	15.0	8.0

* INCIDENTAL TO ITEM, "TRAFFIC SIGNALS AND INTERSECTION LIGHTING, NORTHRIDGE DRIVE"
** ADDITIONAL QUANTITIES LISTED ELSEWHERE

STH 181 & NORTHRIDGE DRIVE
PAGE 1 OF 4

LOC.	TO	LOC.	652.0225 CONDUIT RIGID NONMETALLIC SCHEDULE 40 2-INCH L.F.*	652.0235 CONDUIT RIGID NONMETALLIC SCHEDULE 40 3-INCH L.F.*
CB1	TO	PB1		279.00
PB1	TO	SB1	25.00	
PB1	TO	SB2	13.00	
PB1	TO	PB2		102.00
PB2	TO	PB3	180.00	
PB3	TO	PB4	130.00	
PB2	TO	SB3	21.00	
PB2	TO	PB5		68.00
PB5	TO	SB4	20.00	
PB5	TO	PB6		46.00
PB6	TO	SB5	11.00	
PB6	TO	SB6	11.00	
PB6	TO	SB7	35.00	
PB6	TO	PB7		124.00
PB7	TO	PB8		76.00
PB8	TO	SB9	5.00	
PB8	TO	SB10	28.00	
PB7	TO	SB8	21.00	
PB7	TO	SB11	8.00	
PB7	TO	PB10		68.00
PB10	TO	PB9	18.00	
PB10	TO	SB12	10.00	
PB10	TO	PB11		106.00
PB11	TO	SB13	7.00	
PB11	TO	PB12		72.00
PB12	TO	SB14	7.00	
PB12	TO	PB13	203.00	
PB13	TO	PB14	130.00	
PB12	TO	PB15		126.00
PB15	TO	SB15	17.00	
PB15	TO	SB16	15.00	
PB15	TO	PB16		92.00
PB16	TO	SB17	18.00	
PB16	TO	CB1		30.00
		TOTALS	933.0	1189.0

* ADDITIONAL QUANTITIES LISTED ELSEWHERE

PULL BOX NO.	LOCATION*		653.0135 PULL BOXES STEEL 24X36-INCH EACH**	653.0140 PULL BOXES STEEL 24X42-INCH EACH**
PB1	250+42.72	55.96' RT	1.0	
PB2	249+92.91	56.56' RT		1.0
PB3	248+12.52	56.24' RT	1.0	
PB4	246+82.51	56.58' RT	1.0	
PB5	249+93.64	23.00' RT		1.0
PB6	249+88.20	8.99' LT		1.0
PB7	250+18.28	63.84' LT		1.0
PB8	249+86.37	84.19' LT		1.0
PB9	250+50.92	83.14' LT	1.0	
PB10	250+52.51	64.81' LT		1.0
PB11	251+05.94	66.35' LT		1.0
PB12	251+35.38	53.30' LT		1.0
PB13	253+37.73	44.25' LT	1.0	
PB14	254+67.66	41.69' LT	1.0	
PB15	251+35.59	9.32' RT		1.0
PB16	251+36.08	55.75' RT		1.0
		TOTALS	6.0	10.0

* FINAL LOCATION TO BE DETERMINED BY THE ENGINEER IN THE FIELD.
** ADDITIONAL QUANTITIES LISTED ELSEWHERE

654.0217	CONCRETE CONTROL CABINET BASES, TYPE 9, SPECIAL
656.0200.07	ELECTRICAL SERVICE, METER BREAKER PEDESTAL, STH 181 (N 76TH ST) & NORTHRIDGE DRIVE

LOCATION*		BASE EACH**	METER L.S.
251+35.72	66.18' RT	1.0	1.0

* FINAL LOCATION TO BE DETERMINED BY THE ENGINEER IN THE FIELD.
** ADDITIONAL QUANTITES LISTED ELSEWHERE

SIGNAL BASE NO.	LOCATION*		654.0101 CONCRETE BASES TYPE 1 EACH**	654.0102 CONCRETE BASES TYPE 2 EACH**	654.0105 CONCRETE BASES TYPE 5 EACH
SB1	250+66.58	56.49' RT	1.0		
SB2	250+30.14	55.74' RT	1.0		
SB3	250+13.15	57.44' RT	1.0		
SB4	250+13.40	23.01' RT		1.0	
SB5	250+00.01	8.95' LT	1.0		
SB6	249+77.40	9.96' LT	1.0		
SB7	249+53.74	9.02' LT	1.0		
SB8	250+13.62	46.32' LT		1.0	
SB9	249+79.78	74.31' LT		1.0	
SB10	249+65.82	57.28' LT	1.0		
SB11	250+23.97	58.27' LT	1.0		
SB12	250+55.23	74.54' LT			1.0
SB13	251+11.04	61.25' LT	1.0		
SB14	251+28.33	51.08' LT	1.0		
SB15	251+18.77	6.73' RT		1.0	
SB16	251+28.43	22.55' RT	1.0		
SB17	251+18.62	57.68' RT		1.0	
		TOTALS	11.0	5.0	1.0

* FINAL LOCATION TO BE DETERMINED BY THE ENGINEER IN THE FIELD.
** ADDITIONAL QUANTITIES LISTED ELSEWHERE

LOC.	TO	LOC.	655.0305 CABLE TYPE UF 2-12 AWG GROUNDED L.F.*	655.0610 ELECTRICAL WIRE LIGHTING 12 AWG L.F.*
CB1	TO	SB15	91	---
SB15	TO	POLE	---	288
SB15	TO	SB12	203	---
SB12	TO	POLE	---	288
CB1	TO	SB4	223	---
SB4	TO	POLE	---	288
SB4	TO	SB9	179	---
SB9	TO	POLE	---	117
		TOTALS	696	981

* ADDITIONAL QUANTITIES LISTED ELSEWHERE

LOC.	TO	LOC.	655.0230 CABLE TRAFFIC SIGNAL 5-14 AWG L.F.*	655.0260 CABLE TRAFFIC SIGNAL 12-14 AWG L.F.*
CB1	TO	SB1	---	137
SB1	TO	11	19	---
CB1	TO	SB2	---	126
SB2	TO	12	19	---
CB1	TO	SB3	---	184
SB3	TO	1	19	---
SB3	TO	16	12	---
SB3	TO	PEDB	6	---
CB1	TO	SB4	199	---
SB4	TO	PEDB	6	---
CB1	TO	SB5	---	248
SB5	TO	4	19	---
SB5	TO	8	19	---
CB1	TO	SB6	---	263
SB6	TO	14	19	---
CB1	TO	SB7	---	287
SB7	TO	15	19	---
CB1	TO	SB8	---	305
SB8	TO	9	40	---
SB8	TO	19	12	---
SB8	TO	PEDB	6	---
CB1	TO	SB9	---	333
SB9	TO	13	19	---
CB1	TO	SB10	306	---
SB10	TO	18	12	---
SB10	TO	PEDB	6	---
CB1	TO	SB11	---	292
SB11	TO	10	19	---
SB11	TO	17	12	---
SB11	TO	20	12	---
SB11	TO	PEDB	6	---
CB1	TO	SB13	162	---
SB13	TO	21	12	---
SB13	TO	PEDB	6	---
CB1	TO	SB14	---	150
SB14	TO	5	19	---
SB14	TO	7	19	---
SB14	TO	22	12	---
SB14	TO	PEDB	6	---
CB1	TO	SB15	---	91
SB15	TO	6	19	---
SB15	TO	PEDB	6	---
CB1	TO	SB16	---	89
SB16	TO	2	19	---
CB1	TO	SB17	---	40
SB17	TO	3	40	---
SB17	TO	23	12	---
SB17	TO	PEDB	6	---
		TOTALS	1144	2545

* ADDITIONAL QUANTITIES LISTED ELSEWHERE

LOC.	TO	LOC.	655.0515 ELECTRICAL WIRE TRAFFIC SIGNALS 10 AWG L.F.*
CB1	TO	SB1	137
SB1	TO	SB2	43
SB2	TO	SB3	238
SB3	TO	SB4	87
SB4	TO	SB5	71
SB5	TO	SB6	35
SB6	TO	SB7	52
SB7	TO	SB8	139
SB8	TO	SB9	76
SB9	TO	SB10	39
SB10	TO	SB11	86
SB11	TO	SB12	64
SB12	TO	SB13	82
SB13	TO	SB14	62
SB14	TO	SB15	99
SB15	TO	SB16	38
SB16	TO	SB17	91
SB17	TO	CB1	40
SB1	TO	PB1	38
SB3	TO	PB2	26
SB4	TO	PB5	26
SB5	TO	PB6	13
SB8	TO	PB7	27
SB9	TO	PB8	11
SB12	TO	PB10	16
SB13	TO	PB11	13
SB14	TO	PB12	13
SB15	TO	PB15	23
SB17	TO	PB16	24
		TOTAL	1709

* ADDITIONAL QUANTITIES LISTED ELSEWHERE

661.0200.07 TEMPORARY TRAFFIC SIGNALS FOR INTERSECTION (LOCATION)	
LOCATION	L.S.
STH 181 (N 76TH ST) & NORTHRIDGE DRIVE	1

SIGNAL BASE NO.	LOCATION		204.0195 REMOVING CONCRETE BASES EACH**
SB1	250+92	68' RT	1.0
SB2	250+60	67' RT	1.0
SB3	250+31	67' RT	1.0
SB4	250+14	8' LT	1.0
SB5	249+55	9' LT	1.0
SB6	250+10	57' LT	1.0
SB7	249+79	83' LT	1.0
SB8	250+25	67' LT	1.0
SB9	251+12	68' LT	1.0
SB10	251+33	51' LT	1.0
SB11	251+07	5' RT	1.0
SB12	251+07	12' RT	1.0
CB1	251+19	67' RT	1.0
		TOTAL	13.0

** ADDITIONAL QUANTITES LISTED ELSEWHERE

PULL BOX NO.	LOCATION		SPV.0060.09 REMOVING PULL BOXES EACH**
PB1	250+97	68' RT	1.0
PB2	250+43	68' RT	1.0
PB3	250+07	68' RT	1.0
PB4	248+26	67' RT	1.0
PB5	250+12	24' RT	1.0
PB6	250+01	9' LT	1.0
PB7	249+86	89' LT	1.0
PB8	250+20	69' LT	1.0
PB9	250+24	85' LT	1.0
PB10	250+61	71' LT	1.0
PB11	251+20	55' LT	1.0
PB12	253+41	52' LT	1.0
PB13	251+15	4' RT	1.0
		TOTAL	13.0

** ADDITIONAL QUANTITES LISTED ELSEWHERE

LOOP NO.	HOME RUN PB	LOCATION*		SIZE (FT)x(FT)	NO. OF TURNS	PAVEMENT TYPE	CONST. METHOD***	SDD INSTALLATION REFERENCE	652.0800 CONDUIT LOOP DETECTOR L.F.**	655.0700 LOOP DETECTOR LEAD IN CABLE L.F.**	655.0800 LOOP DETECTOR WIRE L.F.**
11	PB5	249+85.40	1.10' RT	6X20	3	ASPH	CABC	LOOP DETECTOR INSTALLED IN BASE COURSE WITH PULL (SPLICE) BOX OFF ROADWAY (OPTION 2)	90.0	216.0	270.0
12	PB5	250+13.43	0.96' RT	6X20	3	ASPH	CABC	LOOP DETECTOR INSTALLED IN BASE COURSE WITH PULL (SPLICE) BOX OFF ROADWAY (OPTION 2)	92.0	216.0	276.0
13	PB6	249+85.37	13.21' RT	6X20	3	ASPH	CABC	LOOP DETECTOR INSTALLED IN BASE COURSE WITH PULL (SPLICE) BOX OFF ROADWAY (OPTION 2)	68.0	216.0	204.0
14	PB6	250+13.40	13.08' RT	6X20	3	ASPH	CABC	LOOP DETECTOR INSTALLED IN BASE COURSE WITH PULL (SPLICE) BOX OFF ROADWAY (OPTION 2)	70.0	216.0	210.0
21	PB14	254+67.53	24.65' LT	6X20	3	ASPH	CABC	LOOP DETECTOR INSTALLED IN BASE COURSE WITH PULL (SPLICE) BOX OFF ROADWAY (OPTION 2)	66.0	325.0	198.0
22	PB13	253+37.59	25.47' LT	6X20	3	ASPH	CABC	LOOP DETECTOR INSTALLED IN BASE COURSE WITH PULL (SPLICE) BOX OFF ROADWAY (OPTION 2)	66.0	455.0	198.0
41	PB8	249+97.76	84.48' LT	6X20	3	ASPH	CABC	LOOP DETECTOR INSTALLED IN BASE COURSE WITH PULL (SPLICE) BOX OFF ROADWAY (OPTION 2)	70.0	278.0	210.0
42	PB8	249+88.14	58.31' LT	6X20	3	ASPH	CABC	LOOP DETECTOR INSTALLED IN BASE COURSE WITH PULL (SPLICE) BOX OFF ROADWAY (OPTION 2)	70.0	278.0	210.0
43	PB8	250+10.80	84.67' LT	6X20	3	ASPH	CABC	LOOP DETECTOR INSTALLED IN BASE COURSE WITH PULL (SPLICE) BOX OFF ROADWAY (OPTION 2)	96.0	278.0	288.0
44	PB8	250+01.82	58.25' LT	6X20	3	ASPH	CABC	LOOP DETECTOR INSTALLED IN BASE COURSE WITH PULL (SPLICE) BOX OFF ROADWAY (OPTION 2)	92.0	278.0	276.0
61	PB4	246+82.46	39.55' RT	6X20	3	ASPH	CABC	LOOP DETECTOR INSTALLED IN BASE COURSE WITH PULL (SPLICE) BOX OFF ROADWAY (OPTION 2)	70.0	322.0	210.0
62	PB3	248+12.47	39.20' RT	6X20	3	ASPH	CABC	LOOP DETECTOR INSTALLED IN BASE COURSE WITH PULL (SPLICE) BOX OFF ROADWAY (OPTION 2)	66.0	452.0	198.0
71	PB9	250+35.98	87.44' LT	6X20	3	ASPH	CABC	LOOP DETECTOR INSTALLED IN BASE COURSE WITH PULL (SPLICE) BOX OFF ROADWAY (OPTION 2)	78.0	226.0	234.0
72	PB9	250+36.00	59.40' LT	6X20	3	ASPH	CABC	LOOP DETECTOR INSTALLED IN BASE COURSE WITH PULL (SPLICE) BOX OFF ROADWAY (OPTION 2)	78.0	226.0	234.0
								TOTALS	1072.0	3982.0	3216.0

* LOCATION IS TO FRONT CENTER OF DETECTOR LOOP. FINAL LOCATION TO BE DETERMINED BY THE FIELD ENGINEER
** ADDITIONAL QUANTITES LISTED ELSEWHERE
***CONSTRUCTION METHOD:
CUT= SAW CUT SLOTS INTO EXISTING PAVEMENT
FLOAT= FLOAT INTO NEW CONCRETE PAVEMENT.
TOP= INSTALL LOOP DETECTOR ON TOP OF CRUSHED AGGREGATE BASE COURSE
CABC= INSTALL LOOP DETECTOR IN CRUSHED AGGREGATE BASE COURSE.

REMOVE TRAFFIC SIGNALS, NORTHRIDGE DRIVE		
CATEGORY	PROJECT	SPV.0105.09 LS
0010	2140-08-73	1
	TOTAL	1

TRANSPORT EXISTING TRAFFIC SIGNALS, NORTHRIDGE DRIVE		
CATEGORY	PROJECT	SPV.0105.25 LS
0070	2140-08-73	1
	TOTAL	1

STH 181 & NORTHRIDGE DRIVE
PAGE 4 OF 4

SUMMARY OF STATE FURNISHED MATERIALS	
SPV.0105.18	TRAFFIC SIGNALS AND INTERSECTION LIGHTING, NORTHRIDGE LAKES BOULEVARD 1 - LUMP SUM
QUANT. EACH	DESCRIPTION
6	PEDESTAL BASES
8	TRANSFORMER BASES, STANDARD, 11 1/2" BOLT CIRCLE
4	POLES, TYPE 2
4	POLES, TYPE 4
4	TRAFFIC SIGNAL STANDARDS, ALUMINUM, 13'
2	TRAFFIC SIGNAL STANDARDS, ALUMINUM, 15'
2	TROMBONE ARMS, 15'
2	TROMBONE ARMS, 20'
8	TRAFFIC SIGNAL FACES, 3-12" VERTICAL, LED MODULES
4	TRAFFIC SIGNAL FACES, 5-12" VERTICAL, LED MODULES
4	TRAFFIC SIGNAL FACES, 3-12" HORIZONTAL, LED MODULES
12	BACKPLATES, 3 SECTION, 12" SIGNAL FACES
4	BACKPLATES, 5 SECTION, 12" SIGNAL FACES
8	PEDESTRIAN SIGNAL FACES, 12", LED MODULES
10	PEDESTRIAN PUSH BUTTONS
1	TRAFFIC SIGNAL MOUNTING HARDWARE, STH 181 (N 76TH ST) AND NORTHRIDGE LAKES BOULEVARD
8	LUMINAIRES, UTILITY, 250 W
8	LUMINAIRE ARMS, SINGLE MEMBER, 4" CLAMP, 6'

NOTE: THIS TABLE IS FOR INFORMATION ONLY

PEDESTAL BASES*
TRANSFORMER BASES, BREAKAWAY, 11 1/2 INCH BOLT CIRCLE*
POLES, TYPE 2 - ALUMINUM*
POLES, TYPE 4 *
TRAFFIC SIGNAL STANDARDS, ALUMINUM, 13-FOOT*
TRAFFIC SIGNAL STANDARDS, ALUMINUM, 15-FOOT*
TROMBONE ARMS, 20-FOOT*
LUMINAIRES, UTILITY, 250 W*
LUMINAIRE ARMS, SINGLE MEMBER, 4-INCH CLAMP, 6-FOOT*
PEDESTRIAN PUSH BUTTONS*

SIG. BASE NO.	PED. BASE EACH**	TRANS. BASE EACH**	POLE TYPE 2 EACH**	POLE TYPE 4 EACH**	13-FOOT STAND. EACH**	15-FOOT STAND. EACH**	15-FOOT TROMB. EACH**	20-FOOT TROMB. EACH**	LUMIN. 250 W EACH**	ARM 6-FOOT EACH**	PUSH BUTTON EACH**
SB1	1.0				1.0						1.0
SB2		1.0		1.0					2.0	2.0	
SB3		1.0	1.0					1.0			1.0
SB4	1.0				1.0						1.0
SB5		1.0		1.0					2.0	2.0	1.0
SB6	1.0					1.0					
SB7		1.0	1.0				1.0				1.0
SB8	1.0				1.0						1.0
SB9		1.0		1.0					2.0	2.0	
SB10		1.0	1.0					1.0			1.0
SB11	1.0				1.0						1.0
SB12		1.0		1.0					2.0	2.0	1.0
SB13	1.0					1.0					
SB14		1.0	1.0					1.0			1.0
TOTALS	6.0	8.0	4.0	4.0	4.0	2.0	1.0	3.0	8.0	8.0	10.0

* INCIDENTAL TO ITEM, "TRAFFIC SIGNALS AND INTERSECTION LIGHTING, NORTHRIDGE LAKES BLVD."
** ADDITIONAL QUANTITIES LISTED ELSEWHERE

NOTE: THIS TABLE IS FOR INFORMATION ONLY

TRAFFIC SIGNAL FACES, 3-12 INCH VERTICAL, LED MODULES*
TRAFFIC SIGNAL FACES, 5-12 INCH VERTICAL, LED MODULES*
TRAFFIC SIGNAL FACES, 3-12 INCH HORIZONTAL, LED MODULES*
BACKPLATES, 3 SECTION, 12-INCH SIGNAL FACES*
BACKPLATES, 5 SECTION, 12-INCH SIGNAL FACES*
COUNTDOWN PEDESTRIAN SIGNAL FACES, 12-INCH, LED MODULES*

SIG. HEAD NO.	SIG. BASE NO.	3-12" VERT. EACH**	5-12" VERT. EACH**	3-12" HORZ. EACH**	BCKPLT 3-SEC. EACH**	BCKPLT 5-SEC. EACH**	PED. FACE EACH**
1	SB4	1.0			1.0		
2	SB13	1.0			1.0		
3	SB14			1.0	1.0		
4	SB6		1.0			1.0	
5	SB12		1.0			1.0	
6	SB11	1.0			1.0		
7	SB6	1.0			1.0		
8	SB7			1.0	1.0		
9	SB13		1.0			1.0	
10	SB5		1.0			1.0	
11	SB1	1.0			1.0		
12	SB9	1.0			1.0		
13	SB10			1.0	1.0		
14	SB8	1.0			1.0		
15	SB2	1.0			1.0		
16	SB3			1.0	1.0		
17	SB4						1.0
18	SB7						1.0
19	SB8						1.0
20	SB10						1.0
21	SB11						1.0
22	SB14						1.0
23	SB1						1.0
24	SB3						1.0
TOTALS		8.0	4.0	4.0	12.0	4.0	8.0

* INCIDENTAL TO ITEM, "TRAFFIC SIGNALS AND INTERSECTION LIGHTING, NORTHRIDGE LAKES BLVD."
** ADDITIONAL QUANTITIES LISTED ELSEWHERE

STH 181 & NORTHRIDGE LAKES BOULEVARD
PAGE 1 OF 4

LOC.	TO	LOC.	652.0225 CONDUIT RIGID NONMETALLIC SCHEDULE 40 2-INCH L.F.*	652.0235 CONDUIT RIGID NONMETALLIC SCHEDULE 40 3-INCH L.F.*
CB1	TO	PB1		213.00
PB1	TO	SB1	22.00	
PB1	TO	PB2	167.00	
PB1	TO	PB3		94.00
PB3	TO	SB2	11.00	
PB3	TO	PB4		102.00
PB4	TO	PB5	124.00	
PB5	TO	PB6	84.00	
PB6	TO	PB7	130.00	
PB4	TO	PB8		62.00
PB8	TO	SB3	25.00	
PB8	TO	SB4	9.00	
PB8	TO	PB9		78.00
PB9	TO	SB5	22.00	
PB9	TO	PB10		36.00
PB10	TO	SB6	8.00	
PB10	TO	PB11		68.00
PB11	TO	SB7	21.00	
PB11	TO	PB12		108.00
PB12	TO	SB8	16.00	
PB12	TO	PB13	9.00	
PB12	TO	PB15		96.00
PB15	TO	SB9	5.00	
PB15	TO	PB16		72.00
PB16	TO	SB10	16.00	
PB16	TO	PB17		92.00
PB17	TO	SB11	19.00	
PB17	TO	PB18	181.00	
PB18	TO	PB19	130.00	
PB17	TO	PB20		86.00
PB20	TO	SB12	19.00	
PB20	TO	PB21		38.00
PB21	TO	SB13	11.00	
PB21	TO	PB22		78.00
PB22	TO	SB14	18.00	
PB22	TO	CB1		87.00
		TOTALS	1047.0	1310.0

* ADDITIONAL QUANTITIES LISTED ELSEWHERE

PULL BOX NO.	LOCATION*		653.0135 PULL BOXES STEEL 24X36-INCH EACH**	653.0140 PULL BOXES STEEL 24X42-INCH EACH**
PB1	257+78.34	81.82' RT		1.0
PB2	12+48.80 'NL1	29.66' LT	1.0	
PB3	257+31.16	81.29' RT		1.0
PB4	256+81.15	74.19' RT		1.0
PB5	255+61.57	42.44' RT	1.0	
PB6	254+77.87	41.89' RT	1.0	
PB7	253+47.97	47.09' RT	1.0	
PB8	256+69.46	45.92' RT		1.0
PB9	256+55.91	9.11' RT		1.0
PB10	256+55.92	8.95' LT		1.0
PB11	256+56.37	42.55' LT		1.0
PB12	256+93.95	77.04' LT		1.0
PB13	256+94.23	86.16' LT	1.0	
PB15	257+41.59	76.76' LT		1.0
PB16	257+77.91	76.40' LT		1.0
PB17	258+13.73	51.45' LT		1.0
PB18	259+95.15	50.31' LT	1.0	
PB19	261+25.22	50.17' LT	1.0	
PB20	258+13.52	8.97' LT		1.0
PB21	258+19.25	8.90' RT		1.0
PB22	258+13.16	47.36' RT		1.0
		TOTALS	7.0	14.0

* FINAL LOCATION TO BE DETERMINED BY THE ENGINEER IN THE FIELD.
** ADDITIONAL QUANTITIES LISTED ELSEWHERE

SIGNAL BASE NO.	LOCATION*		654.0101 CONCRETE BASES TYPE 1 EACH**	654.0102 CONCRETE BASES TYPE 2 EACH**
SB1	257+78.81	60.13' RT	1.0	
SB2	257+30.81	70.78' RT		1.0
SB3	256+88.81	50.93' RT		1.0
SB4	256+78.02	43.87' RT	1.0	
SB5	256+77.62	9.18' RT		1.0
SB6	256+64.09	8.99' LT	1.0	
SB7	256+77.06	43.36' LT		1.0
SB8	256+93.51	61.33' LT	1.0	
SB9	257+41.36	72.35' LT		1.0
SB10	257+83.99	61.41' LT		1.0
SB11	257+95.24	53.08' LT	1.0	
SB12	257+94.71	9.28' LT		1.0
SB13	258+08.47	8.91' RT	1.0	
SB14	257+94.89	48.47' RT		1.0
		TOTALS	6.0	8.0

* FINAL LOCATION TO BE DETERMINED BY THE ENGINEER IN THE FIELD.
** ADDITIONAL QUANTITIES LISTED ELSEWHERE

654.0217 CONCRETE CONTROL CABINET BASES, TYPE 9, SPECIAL
656.0200.08 ELECTRICAL SERVICE, METER BREAKER PEDESTAL, STH 181 (N 76TH ST) & NORTHRIDGE LAKES BLVD.

LOCATION*		BASE EACH**	METER L.S.
258+40.63	56.69' RT	1.0	1.0

* FINAL LOCATION TO BE DETERMINED BY THE ENGINEER IN THE FIELD.
** ADDITIONAL QUANTITES LISTED ELSEWHERE

LOC.	TO	LOC.	655.0305 CABLE TYPE UF 2-12 AWG GROUNDED L.F.*	655.0610 ELECTRICAL WIRE LIGHTING 12 AWG L.F.*
CB1	TO	SB2	147	---
SB2	TO	POLE	---	288
SB2	TO	SB5	178	---
SB5	TO	POLE	---	288
CB1	TO	SB12	130	---
SB12	TO	POLE	---	288
SB12	TO	SB9	173	---
SB9	TO	POLE	---	288
		TOTALS	628	1152

* ADDITIONAL QUANTITIES LISTED ELSEWHERE

STH 181 & NORTHRIDGE LAKES BOULEVARD
PAGE 2 OF 4

LOC.	TO	LOC.	655.0230 CABLE TRAFFIC SIGNAL 5-14 AWG L.F.*	655.0240 CABLE TRAFFIC SIGNAL 7-14 AWG L.F.*	655.0260 CABLE TRAFFIC SIGNAL 12-14 AWG L.F.*
CB1	TO	SB1	---	---	105
SB1	TO	11	19	---	---
SB1	TO	23	12	---	---
SB1	TO	PEDB	6	---	---
CB1	TO	SB2	---	---	141
SB2	TO	15	19	---	---
CB1	TO	SB3	---	---	255
SB3	TO	16	45	---	---
SB3	TO	24	12	---	---
SB3	TO	PEDB	6	---	---
CB1	TO	SB4	---	---	239
SB4	TO	1	19	---	---
SB4	TO	17	12	---	---
SB4	TO	PEDB	6	---	---
CB1	TO	SB5	---	---	303
SB5	TO	10	---	23	---
SB5	TO	PEDB	6	---	---
CB1	TO	SB6	---	---	307
SB6	TO	4	---	23	---
SB6	TO	7	23	---	---
CB1	TO	SB7	---	---	360
SB7	TO	8	45	---	---
SB7	TO	18	12	---	---
SB7	TO	PEDB	6	---	---
CB1	TO	SB8	---	---	324
SB8	TO	14	19	---	---
SB8	TO	19	12	---	---
SB8	TO	PEDB	6	---	---
CB1	TO	SB9	---	---	259
SB9	TO	12	19	---	---
CB1	TO	SB10	---	---	228
SB10	TO	13	45	---	---
SB10	TO	20	12	---	---
SB10	TO	PEDB	6	---	---
CB1	TO	SB11	---	---	179
SB11	TO	6	19	---	---
SB11	TO	21	12	---	---
SB11	TO	PEDB	6	---	---
CB1	TO	SB12	---	---	130
SB12	TO	5	---	23	---
SB12	TO	PEDB	6	---	---
CB1	TO	SB13	---	---	97
SB13	TO	2	23	---	---
SB13	TO	9	---	23	---
CB1	TO	SB14	---	---	59
SB14	TO	3	45	---	---
SB14	TO	22	12	---	---
SB14	TO	PEDB	6	---	---
		TOTALS	496	92	2986

* ADDITIONAL QUANTITIES LISTED ELSEWHERE

661.0200.08 TEMPORARY TRAFFIC SIGNALS FOR INTERSECTION (LOCATION)	
LOCATION	L.S.
STH 181 (N 76TH ST) & NORTHRIDGE LAKES BLVD.	1

LOC.	TO	LOC.	655.0515 ELECTRICAL WIRE TRAFFIC SIGNALS 10 AWG L.F.*
CB1	TO	SB1	105
SB1	TO	SB2	92
SB2	TO	SB3	136
SB3	TO	SB4	120
SB4	TO	SB5	82
SB5	TO	SB6	60
SB6	TO	SB7	75
SB7	TO	SB8	103
SB8	TO	SB9	81
SB9	TO	SB10	69
SB10	TO	SB11	93
SB11	TO	SB12	93
SB12	TO	SB13	61
SB13	TO	SB14	80
SB14	TO	CB1	59
SB1	TO	PB1	28
SB2	TO	PB3	17
SB3	TO	PB4	62
SB4	TO	PB8	15
SB5	TO	PB9	28
SB6	TO	PB10	14
SB7	TO	PB11	27
SB8	TO	PB12	22
SB9	TO	PB15	11
SB10	TO	PB16	22
SB11	TO	PB17	25
SB12	TO	PB20	25
SB13	TO	PB21	17
SB14	TO	PB22	24
		TOTAL	1646

* ADDITIONAL QUANTITIES LISTED ELSEWHERE

SIGNAL BASE NO.	LOCATION		204.0195 REMOVING CONCRETE BASES EACH**
SB1	257+94	52' RT	1.0
SB2	257+83	73' RT	1.0
SB3	257+31	70' RT	1.0
SB4	256+92	60' RT	1.0
SB5	256+75	54' RT	1.0
SB6	256+83	6' LT	1.0
SB7	256+73	59' LT	1.0
SB8	256+96	76' LT	1.0
SB9	257+42	65' LT	1.0
SB10	257+78	73' LT	1.0
SB11	257+95	52' LT	1.0
SB12	257+96	6' RT	1.0
CB1	258+24	51' RT	1.0
		TOTAL	13.0

** ADDITIONAL QUANTITES LISTED ELSEWHERE

PULL BOX NO.	LOCATION		SPV.0060.09 REMOVING PULL BOXES EACH**
PB1	258+01	51' RT	1.0
PB2	257+81	65' RT	1.0
PB3	257+80	103' RT	1.0
PB4	257+79	161' RT	1.0
PB5	257+31	111' RT	1.0
PB6	256+91	100' RT	1.0
PB7	256+52	79' RT	1.0
PB8	254+69	57' RT	1.0
PB9	256+66	54' RT	1.0
PB10	256+76	2' LT	1.0
PB11	256+08	1' LT	1.0
PB12	255+35	6' LT	1.0
PB13	256+83	54' LT	1.0
PB14	256+95	63' LT	1.0
PB15	257+42	73' LT	1.0
PB16	257+42	89' LT	1.0
PB17	257+77	68' LT	1.0
PB18	258+01	51' LT	1.0
PB19	259+93	54' LT	1.0
PB20	258+00	9' RT	1.0
		TOTAL	20.0

** ADDITIONAL QUANTITES LISTED ELSEWHERE

STH 181 & NORTHRIDGE LAKES BOULEVARD
PAGE 3 OF 4

LOOP NO.	HOME RUN PB	LOCATION*		SIZE (FT)x(FT)	NO. OF TURNS	PAVEMENT TYPE	CONST. METHOD***	SDD INSTALLATION REFERENCE	652.0800 CONDUIT LOOP DETECTOR L.F.**	655.0700 LOOP DETECTOR LEAD IN CABLE L.F.**	655.0800 LOOP DETECTOR WIRE L.F.**
11	PB9	256+47.44	0.04' LT	6X20	3	ASPH	CABC	LOOP DETECTOR INSTALLED IN BASE COURSE WITH PULL (SPLICE) BOX OFF ROADWAY (OPTION 2)	72.0	239.0	216.0
12	PB9	256+75.47	0.00'	6X20	3	ASPH	CABC	LOOP DETECTOR INSTALLED IN BASE COURSE WITH PULL (SPLICE) BOX OFF ROADWAY (OPTION 2)	64.0	239.0	192.0
21	PB19	261+25.10	24.97' LT	6X18	4	ASPH	CABC	LOOP DETECTOR INSTALLED IN BASE COURSE WITH PULL (SPLICE) BOX OFF ROADWAY (OPTION 2)	76.0	441.0	304.0
22	PB18	259+95.15	25.10' LT	6X18	3	ASPH	CABC	LOOP DETECTOR INSTALLED IN BASE COURSE WITH PULL (SPLICE) BOX OFF ROADWAY (OPTION 2)	76.0	311.0	228.0
41	PB13	257+05.66	89.79' LT	6X20	3	ASPH	CABC	LOOP DETECTOR INSTALLED IN BASE COURSE WITH PULL (SPLICE) BOX OFF ROADWAY (OPTION 2)	70.0	269.0	210.0
42	PB13	257+05.68	61.76' LT	6X20	3	ASPH	CABC	LOOP DETECTOR INSTALLED IN BASE COURSE WITH PULL (SPLICE) BOX OFF ROADWAY (OPTION 2)	70.0	269.0	210.0
43	PB13	257+17.70	89.78' LT	6X20	3	ASPH	CABC	LOOP DETECTOR INSTALLED IN BASE COURSE WITH PULL (SPLICE) BOX OFF ROADWAY (OPTION 2)	94.0	269.0	282.0
44	PB13	257+17.72	61.75' LT	6X20	3	ASPH	CABC	LOOP DETECTOR INSTALLED IN BASE COURSE WITH PULL (SPLICE) BOX OFF ROADWAY (OPTION 2)	94.0	269.0	282.0
45	PB15	257+29.67	89.80' LT	6X20	3	ASPH	CABC	LOOP DETECTOR INSTALLED IN BASE COURSE WITH PULL (SPLICE) BOX OFF ROADWAY (OPTION 2)	82.0	224.0	246.0
46	PB15	257+29.70	61.77' LT	6X20	3	ASPH	CABC	LOOP DETECTOR INSTALLED IN BASE COURSE WITH PULL (SPLICE) BOX OFF ROADWAY (OPTION 2)	72.0	224.0	216.0
51	PB21	258+23.79	0.06' LT	6X20	3	ASPH	CABC	LOOP DETECTOR INSTALLED IN BASE COURSE WITH PULL (SPLICE) BOX OFF ROADWAY (OPTION 2)	68.0	68.0	204.0
52	PB21	257+95.76	0.00'	6X20	3	ASPH	CABC	LOOP DETECTOR INSTALLED IN BASE COURSE WITH PULL (SPLICE) BOX OFF ROADWAY (OPTION 2)	66.0	68.0	198.0
61	PB7	253+47.59	30.03' RT	6X18	4	ASPH	CABC	LOOP DETECTOR INSTALLED IN BASE COURSE WITH PULL (SPLICE) BOX OFF ROADWAY (OPTION 2)	64.0	507.0	256.0
62	PB6	254+77.49	24.83' RT	6X18	3	ASPH	CABC	LOOP DETECTOR INSTALLED IN BASE COURSE WITH PULL (SPLICE) BOX OFF ROADWAY (OPTION 2)	64.0	377.0	192.0
81	PB2	12+48.80 'NL1'	12.14' LT	6X20	3	ASPH	CABC	LOOP DETECTOR INSTALLED IN BASE COURSE WITH PULL (SPLICE) BOX OFF ROADWAY (OPTION 2)	68.0	238.0	204.0
82	PB1	257+65.46	86.05' RT	6X20	3	ASPH	CABC	LOOP DETECTOR INSTALLED IN BASE COURSE WITH PULL (SPLICE) BOX OFF ROADWAY (OPTION 2)	74.0	71.0	222.0
83	PB1	257+65.43	58.02' RT	6X20	3	ASPH	CABC	LOOP DETECTOR INSTALLED IN BASE COURSE WITH PULL (SPLICE) BOX OFF ROADWAY (OPTION 2)	74.0	71.0	222.0
84	PB1	257+53.44	86.07' RT	6X20	3	ASPH	CABC	LOOP DETECTOR INSTALLED IN BASE COURSE WITH PULL (SPLICE) BOX OFF ROADWAY (OPTION 2)	96.0	71.0	288.0
85	PB1	257+53.42	58.04' RT	6X20	3	ASPH	CABC	LOOP DETECTOR INSTALLED IN BASE COURSE WITH PULL (SPLICE) BOX OFF ROADWAY (OPTION 2)	96.0	71.0	288.0
86	PB3	257+42.42	86.00' RT	6X20	3	ASPH	CABC	LOOP DETECTOR INSTALLED IN BASE COURSE WITH PULL (SPLICE) BOX OFF ROADWAY (OPTION 2)	72.0	118.0	216.0
87	PB3	257+42.39	57.97' RT	6X20	3	ASPH	CABC	LOOP DETECTOR INSTALLED IN BASE COURSE WITH PULL (SPLICE) BOX OFF ROADWAY (OPTION 2)	70.0	118.0	210.0
								TOTALS	1582.0	4532.0	4886.0

* LOCATION IS TO FRONT CENTER OF DETECTOR LOOP. FINAL LOCATION TO BE DETERMINED BY THE FIELD ENGINEER
** ADDITIONAL QUANTITES LISTED ELSEWHERE
***CONSTRUCTION METHOD:
CUT= SAW CUT SLOTS INTO EXISTING PAVEMENT
FLOAT= FLOAT INTO NEW CONCRETE PAVEMENT.
TOP= INSTALL LOOP DETECTOR ON TOP OF CRUSHED AGGREGATE BASE COURSE
CABC= INSTALL LOOP DETECTOR IN CRUSHED AGGREGATE BASE COURSE.

REMOVE TRAFFIC SIGNALS, NORTHRIDGE LAKES BOULEVARD		
CATEGORY	PROJECT	SPV.0105.10 LS
0010	2140-08-73	1
	TOTAL	1

TRANSPORT EXISTING TRAFFIC SIGNALS, NORTHRIDGE LAKES BOULEVARD		
CATEGORY	PROJECT	SPV.0105.26 LS
0070	2140-08-73	1
	TOTAL	1

LOC.	TO LOC.	652.0225 CONDUIT RIGID NONMETALLIC SCHEDULE 40 2-INCH L.F.*
EX. PB99	TO I/CPB100	319
I/CPB100	TO I/CPB101	318
I/CPB101	TO PB5	316
CALUMET ROAD		
PB18	TO I/CPB102	316
I/CPB102	TO I/CPB103	308
I/CPB103	TO I/CPB104	311
I/CPB104	TO I/CPB105	308
I/CPB105	TO I/CPB106	309
I/CPB106	TO I/CPB107	309
I/CPB107	TO PB13	309
W. BRADLEY ROAD		
PB2	TO PB11	263
TOWER AVENUE		
PB19	TO I/CPB108	303
I/CPB108	TO I/CPB109	266
I/CPB109	TO I/CPB110	88
I/CPB110	TO I/CPB111	277
I/CPB111	TO I/CPB112	279
I/CPB112	TO I/CPB113	279
I/CPB113	TO I/CPB114	280
I/CPB114	TO I/CPB115	38
I/CPB115	TO I/CPB116	260
I/CPB116	TO PB8	276
BROWN DEER ROAD		
PB4	TO I/CPB117	257
I/CPB117	TO I/CPB118	284
I/CPB118	TO I/CPB119	272
I/CPB119	TO I/CPB120	25
I/CPB120	TO I/CPB121	263
I/CPB121	TO PB4	212
NORTHRIDGE DRIVE		
PB16	TO PB7	212
NORTHRIDGE LAKES BLVD.		
PB19	TO I/CPB122	218
I/CPB122	TO I/CPB123	138
I/CPB123	TO I/CPB124	318
I/CPB124	TO I/CPB125	320
I/CPB125	TO I/CPB126	319
I/CPB126	TO I/CPB127	109
I/CPB127	TO I/CPB128	282
I/CPB128	TO I/CPB129	281
I/CPB129	TO I/CPB130	277
I/CPB130	TO I/CPB131	269
	TOTAL	9788.0

* ADDITIONAL QUANTITIES LISTED ELSEWHERE

PULL BOX NO.	LOCATION*		653.0135 PULL BOXES STEEL 24X36-INCH EACH**	653.0140 PULL BOXES STEEL 24X42-INCH EACH**
I/CPB100	143+23.91	51.53' RT	1.0	
I/CPB101	146+43.67	51.48' RT	1.0	
I/CPB102	156+93.02	51.95' RT	1.0	
I/CPB103	160+02.71	51.28' RT	1.0	
I/CPB104	163+13.04	51.33' RT	1.0	
I/CPB105	166+22.60	51.20' RT	1.0	
I/CPB106	169+32.80	51.29' RT	1.0	
I/CPB107	172+43.03	51.12' RT	1.0	
I/CPB108	209+93.51	54.46' R	1.0	
I/CPB109	212+51.35	54.46' RT		1.0
I/CPB110	213+38.38	55.32' RT		1.0
I/CPB111	216+15.04	54.17' RT	1.0	
I/CPB112	218+94.08 'SE'	6.10' RT	1.0	
I/CPB113	221+73.55 'SE'	7.33' RT	1.0	
I/CPB114	224+54.43 'SE'	10.60' RT		1.0
I/CPB115	224+58.23 'SE'	26.43' LT		1.0
I/CPB116	227+13.46 'SE'	26.93' L	1.0	
I/CPB117	236+46.41 'NE'	32.05' L	1.0	
I/CPB118	239+35.80 'NE'	32.02' L	1.0	
I/CPB119	242+07.21 'NE'	20.81' LT		1.0
I/CPB120	242+08.00 'NE'	4.07' RT		1.0
I/CPB121	244+71.60	62.37' R	1.0	
I/CPB122	263+42.70	51.73' LT		1.0
I/CPB123	264+85.43	51.63' LT		1.0
I/CPB124	267+98.03	51.86' LT	1.0	
I/CPB125	271+17.21	51.37' LT	1.0	
I/CPB126	274+31.74	51.75' LT		1.0
I/CPB127	275+39.42	51.39' LT		1.0
I/CPB128	278+20.74	51.38' LT	1.0	
I/CPB129	281+01.23	52.82' L	1.0	
I/CPB130	283+82.19	52.11' LT	1.0	
		TOTALS	21.0	10.0

* FINAL LOCATION TO BE DETERMINED BY THE ENGINEER IN THE FIELD.
** ADDITIONAL QUANTITIES LISTED ELSEWHERE

LOC.	TO LOC.	655.0410 COMMUNICATION CABLE INSTALLED IN CONDUIT L.F.
FROM GHR	TO EX. PB	1400.0
EX. PB	TO I/CPB100	319.0
I/CPB100	TO I/CPB101	318.0
I/CPB101	TO PB5	316.0
PB5	TO PB4	268.0
PB4	TO PB3	88.0
PB3	TO PB2	57.0
PB2	TO CB1	6.0
CB1	TO PB1	9.0
PB1	TO PB18	61.0
PB18	TO I/CPB102	316.0
I/CPB102	TO I/CPB103	308.0
I/CPB103	TO I/CPB104	311.0
I/CPB104	TO I/CPB105	308.0
I/CPB105	TO I/CPB106	309.0
I/CPB106	TO I/CPB107	309.0
I/CPB107	TO PB13	317.0
PB13	TO PB12	44.0
PB12	TO PB11	42.0
PB11	TO PB10	51.0
PB10	TO PB6	51.0
PB6	TO PB5	42.0
PB5	TO PB4	17.0
PB4	TO PB3	45.0
PB3	TO PB1	285.0
PB1	TO PB2	263.0
PB2	TO PB11	55.0
PB11	TO PB12	53.0
PB12	TO PB14	21.0
PB14	TO CB1	
CB1	TO PB19	14.0
PB19	TO I/CPB108	303.0
I/CPB108	TO I/CPB109	266.0
I/CPB109	TO I/CPB110	88.0
I/CPB110	TO I/CPB111	277.0
I/CPB111	TO I/CPB112	279.0
I/CPB112	TO I/CPB113	279.0
I/CPB113	TO I/CPB114	280.0
I/CPB114	TO I/CPB115	38.0
I/CPB115	TO I/CPB116	260.0
I/CPB116	TO PB8	276.0
PB8	TO PB2	235.0

COMMUNICATION CABLE CONT.		
LOC.	TO LOC.	655.0410 COMMUNICATION CABLE INSTALLED IN CONDUIT L.F.
PB2	TO PB1	53.0
PB1	TO CB1	12.0
PB1	TO PB6	82.0
PB6	TO PB5	57.0
PB5	TO PB4	61.0
PB4	TO I/CPB117	257.0
I/CPB117	TO I/CPB128	284.0
I/CPB118	TO I/CPB119	272.0
I/CPB119	TO I/CPB120	25.0
I/CPB120	TO I/CPB121	263.0
I/CPB121	TO PB4	212.0
PB4	TO PB3	130.0
PB3	TO PB2	180.0
PB2	TO PB1	51.0
PB19	TO CB1	93.0
CB1	TO PB16	10.0
PB16	TO PB7	212.0
PB7	TO PB6	130.0
PB6	TO PB5	84.0
PB5	TO PB4	124.0
PB4	TO PB3	51.0
PB3	TO PB1	47.0
PB1	TO CB1	71.0
CB1	TO PB22	29.0
PB22	TO PB21	39.0
PB21	TO PB20	19.0
PB20	TO PB17	42.0
PB17	TO PB18	181.0
PB18	TO PB19	130.0
PB19	TO I/CPB122	218.0
I/CPB122	TO I/CPB123	138.0
I/CPB123	TO I/CPB124	318.0
I/CPB124	TO I/CPB125	320.0
I/CPB125	TO I/CPB126	319.0
I/CPB126	TO I/CPB127	109.0
I/CPB127	TO I/CPB128	282.0
I/CPB128	TO I/CPB129	281.0
I/CPB129	TO I/CPB130	277.0
I/CPB130	TO I/CPB131	269.0
I/CPB131	TO I/CPB132	38.0
I/CPB132	TO I/CPB133	79.0
I/CPB133	TO CB1	13.0
	TOTAL	14755.0

STH 181 TRAFFIC SIGNAL INTERCONNECT
PAGE 1 OF 1

PROJECT NO: 2140-08-73	HWY: STH 181	COUNTY: MILWAUKEE	MISCELLANEOUS QUANTITIES	SHEET 663	E

SAWING EXISTING PAVEMENT

CATEGORY	STAGE	STATION - STATION	LOCATION	690.0100 LF
0010	STAGE 2	140+00 - 153+00	RT	145
		153+00 - 179+50	RT	280
		179+50 - 186+30	RT	210
		186+30 - 206+00	RT	40
		206+00 - 233+25	RT	55
		SUBTOTAL (STAGE 2)		730
	STAGE 3	140+00 - 153+00	LT	615
		153+00 - 179+50	LT	2,270
		179+50 - 186+30	LT	795
		186+30 - 206+00	LT	40
		206+00 - 233+25	LT	15
		250+50 - 274+75	LT	105
		257+50 - 274+75	LT	25
		274+75 - 281+00	LT	25
		SUBTOTAL (STAGE 3)		3,890
	STAGE 4	138+25 - 153+00	MEDIAN	1,160
		153+00 - 179+50	MEDIAN	4,000
		179+50 - 186+30	MEDIAN	150
		SUBTOTAL (STAGE 4)		5,310
		TOTAL		9,930

SAWING CONCRETE PAVEMENT FULL DEPTH

CATEGORY	STAGE	STATION - STATION	LOCATION	690.0200 LF*
0010	STAGE 1	140+00 - 153+00	MEDIAN	1,270
		153+00 - 179+50	MEDIAN	2,180
		179+50 - 186+30	MEDIAN	705
		186+30 - 206+00	MEDIAN	215
		206+00 - 233+25	MEDIAN	575
		233+25 - 250+50	MEDIAN	1,210
		274+75 - 281+00	MEDIAN	555
		231+98 'NE' - 244+89 'NE'	RAMP	190
		217+00 'SE' - 233+04 'SE'	RAMP	65
		SUBTOTAL (STAGE 1)		6,965
	STAGE 2	140+00 - 153+00	RT	1,200
		153+00 - 179+50	RT	4,090
		179+50 - 186+30	RT	875
		186+30 - 206+00	RT	130
		206+00 - 233+25	RT	225
		233+25 - 250+50	RT	40
		250+50 - 274+75	RT	70
		257+50 - 274+75	RT	100
		274+75 - 281+00	RT	35
		231+98 'NE' - 244+89 'NE'	RT	260
		232+68 'NW' - 247+46 'NW'	RT	40
		217+00 'SE' - 233+04 'SE'	RT	200
		217+15 'SW' - 235+08 'SW'	RT	25
		SUBTOTAL (STAGE 2)		7,290
	STAGE 3	140+00 - 153+00	LT	260
		153+00 - 179+50	LT	635
		179+50 - 186+30	LT	265
		186+30 - 206+00	LT	130
		206+00 - 233+25	LT	140
		233+25 - 250+50	LT	75
		250+50 - 257+50	LT	70
		257+50 - 274+75	LT	205
		274+75 - 281+00	LT	35
		232+68 'NW' - 247+46 'NW'	LT	50
		217+15 'SW' - 235+08 'SW'	LT	45
		SUBTOTAL (STAGE 3)		1,910
		TOTAL		16,165

*ADDITIONAL QUANTITIES LISTED ELSEWHERE

3

ADJUSTING WATER SERVICE BOXES

CATEGORY	STATION - STATION	LOCATION	SPV.0060.02 EACH
0060	140+00.00 - 281+00.00	LT/RT	43
	TOTAL		43

ADJUSTING WATER GATE VALVES

CATEGORY	STATION - STATION	LOCATION	SPV.0060.03 EACH
0060	140+00.00 - 281+00.00	LT/RT	139
	TOTAL		139

WATER MAIN PROTECTION

CATEGORY	STRUCTURE NO.	STATION	OFFSET	SPV.0060.04 EACH
0060	I-18.2	168+10	57.00' LT	1
	I-19.1	168+10	47.50' RT	1
	I-21.2	170+65	47.50' RT	1
	I-21B.1	8+63 'F'	12.50' RT	1
	I-54.1	244+50 'NW'	1.30' LT	1
	I-54.2	244+75	67.58' LT	1
	I-55.4	245+50 'NW'	1.30' LT	1
	I-57.1	247+50	47.00' LT	1
	I-78.1	278+99	48.30' LT	1
	TOTAL			9

SANITARY MANHOLES

CATEGORY	STATION	OFFSET	SPV.0060.05 MANHOLE COVER TYPE 58A EACH	SPV.0060.06 INTERNAL SANITARY MANHOLE SEALS EACH
0060	141+65	51' RT	1	1
	144+07	50' RT	1	1
	146+40	50' RT	1	1
	149+01	50' RT	1	1
	152+40	50' RT	1	1
	153+22	52' LT	1	1
	153+94	50' RT	1	1
	155+16	51' LT	1	1
	156+58	50' RT	1	1
	157+10	50' LT	1	1
	158+95	51' LT	1	1
	159+58	50' RT	1	1
	162+83	50' RT	1	1
	164+67	51' LT	1	1
	165+83	50' LT	1	1
	166+09	50' RT	1	1
	167+29	52' LT	1	1
	167+69	65' LT	1	1
	169+18	50' RT	1	1
	172+27	50' RT	1	1
	172+91	64' LT	1	1
	174+63	50' RT	1	1
	178+66	50' LT	1	1
	179+13	52' RT	1	1
	179+18	34' LT	1	1
	182+72	34' LT	1	1
	186+34	33' LT	1	1
	188+38	33' LT	1	1
	209+30	70' RT	1	1
	210+27	69' RT	1	1
	210+42	60' RT	1	1
	234+81 'NE'	5' RT	1	1
	233+27 'NW'	4' LT	1	1
	234+79 'NW'	16' LT	1	1
	245+43 'NW'	15' LT	1	1
	247+93	52' LT	1	1
	251+30	51' LT	1	1
	254+66	51' LT	1	1
	258+00	51' LT	1	1
	261+36	52' LT	1	1
	264+70	52' LT	1	1
	266+86	52' LT	1	1
	273+48	54' LT	1	1
	274+86	57' LT	1	1
	TOTALS		44	44

ADJUSTING TES MANHOLE COVER

CATEGORY	STATION	OFFSET	SPV.0060.07 EACH	REMARKS
0060	142+68	17' LT	1	
	147+73	17' LT	1	NEW IRON
	152+78	18' LT	1	NEW IRON
	157+76	17' LT	1	NEW IRON
	162+57	17' LT	1	
	167+35	17' LT	1	NEW IRON
	173+88	17' LT	1	NEW IRON
	179+19	72' LT	1	NEW IRON
	179+24	18' LT	1	
	179+24	75' RT	1	
	186+00	17' LT	1	
	191+74	17' LT	1	
	198+73	17' LT	1	
	205+74	17' LT	1	NEW IRON
	212+40	17' LT	1	
	223+36	88' LT	1	NEW IRON
	218+05 'SW'	10' RT	1	NEW IRON
	228+30 'SW'	8' RT	1	
	TOTAL		18	

LANDMARK REFERENCE MONUMNENTS SPECIAL

CATEGORY	STATION	LOCATION	SPV.0060.08 EACH	REMARKS
0010	152+83.97	R/L	1	CALUMET ROAD
	179+40.91	R/L	1	BRADLEY ROAD
	205+98.75	R/L	1	DEAN ROAD
	260+12.11	R/L	1	MEDIAN
	TOTAL		4	

POLYMER CONCRETE VAULT (13" W X 24" D X 18" H)

CATEGORY	STATION	SPV.0060.10 EACH
0080	138+32	1
	144+78	1
	151+01	1
	173+09	1
	174+52	1
	174+92	1
	175+94	1
	177+34	1
	177+70	1
	181+48	1
	183+15	1
	184+49	1
	214+01	1
	248+42	1
	255+30	1
	259+66	1
	262+86	1
	TOTAL	17

STORM SEWER CLEANING AND TELEVISING

CATEGORY	STATION - STATION	FROM STRUCTURE	TO STRUCTURE	SPV.0090.01 LF
0010	139+49 - 143+66	EX. MH	MH-3	420
	151+60 - 153+51	MH-10	MH-11	190
	151+55 - 154+91	MH-9	MH-13	340
	156+34 - 162+94	EX. MH	MH-16	660
	158+50 - 173+76	MH-14B	MH-21C	1,525
	172+80 - 177+00	EX. MH	MH-23	420
	180+06 - 185+71	MH-26B	MH-28B	565
	186+84 - 189+45	MH-29	MH-30B	260
	202+25 - 205+91	MH-31	EX. MH	370
	202+67 - 205+91	MH-32	EX. MH	325
	11+37 'D' - 12+45 'D'	MH-34B	EX. MH	110
	206+47 - 225+51	MH-35	I-45.6	1,910
	220+12 'SE' - 226+13 'SE'	MH-45	MH-46	600
	233+65 'NW' - 236+99 'NW	EX. MH	MH-83	370
	234+59 - 237+99 'NE'	EX. MH	MH-81	400
	236+48 - 236+94	MH-48	MH-49	45
	245+52 - 248+49	MH-55	MH-58	325
	255+92 - 263+25	MH-64B	EX. MH	735
	258+44 - 263+24	MH-67	EX. MH	480
	263+74 - 266+49	EX. MH	MH-71	275
	266+46 - 271+50	MH-72	MH-74	500
	276+49 - 279+00	MH-76	MH-79	250
	283+01 - 286+78	EX. MH	EX. MH	380
	284+49 - 286+29	EX. MH	EX. MH	180
	TOTAL			11,635

RESEARCH AND LOCATE EXISTING PROPERTY MONUMENTS

CATEGORY	STATION - STATION	LOCATION	SPV.0105.01 LS
0010	140+00.00 - 281+00.00	LT/RT	1
	TOTAL		1

VERIFY AND REPLACE EXISTING PROPERTY MONUMENTS

CATEGORY	STATION - STATION	LOCATION	SPV.0105.02 LS
0010	140+00.00 - 281+00.00	LT/RT	1
	TOTAL		1

TEST ROLLING

CATEGORY	STAGE	STATION - STATION	LOCATION	SPV.0170.01 STA
0010	STAGE 2	140+00 - 281+00	RT	140
	STAGE 3	140+00 - 281+00	LT	140
		TOTAL		280

CONVENTIONAL SIGNS AND ABBREVIATIONS

STATE, COUNTY, or TOWN LINE	
SECTION LINE	
QUARTER LINE	
SIXTEENTH LINE	
PROPOSED REFERENCE LINE	
PROPOSED R/W LINE	
EXISTING H.E. LINE	
PROPERTY LINE	
EASEMENT LINE	
CORPORATE LIMITS	
EXISTING CENTERLINE	
LOT & TIE LINES	
UTILITIES (TELEPHONE, GAS, ELECTRIC, CABLE TV, FIBER OPTIC)	FO (TYPE)
ACCESS RESTRICTED (BY PREVIOUS PROJECT/CONTROL)	
NO ACCESS (BY ACQUISITION)	
NO ACCESS (BY STATUTORY AUTHORITY)	
FEE (HATCH VARIES)	
TEMPORARY LIMITED EASEMENT	
PERMANENT LIMITED EASEMENT	
PARCEL NUMBER	102
SIGN NUMBER (OFF PREMISE)	21-1
BUILDING	
FOUND IRON PIPE/PIN	○ (1" UNLESS NOTED)
R/W MONUMENT	○ (SET)
R/W STANDARD	△ ▲(SET)
SIGN	SIGN SIGN

ACCESS POINT	AP
ACCESS RIGHTS	AR
ACRES	AC.
AND OTHERS	ET.AL.
CENTERLINE	C/L
CERTIFIED SURVEY MAP	CSM
DOCUMENT	DOC.
HIGHWAY EASEMENT	H.E.
LAND CONTRACT	LC
MONUMENT	MON.
PAGE	P.
PROPERTY LINE	PL
PERMANENT LIMITED EASEMENT	PLE
RECORDED AS	(100')
REFERENCE LINE	R/L
REMAINING	REM.
RIGHT-OF-WAY	R/W
SECTION	SEC.
SQUARE FEET	SQ.FT.
STATION	STA.
TEMPORARY LIMITED EASEMENT	TLE
VOLUME	V.

CURVE DATA

LONG CHORD	LCH
LONG CHORD BEARING	LCB
RADIUS	R
DEGREE OF CURVE	D
CENTRAL ANGLE OR DELTA	DELTA
LENGTH OF CURVE	L
TANGENT	TAN

	NON COMPENSABLE	COMPENSABLE
POWER POLE		
TELEPHONE POLE		
TELEPHONE PEDESTAL		
SECTION CORNER		

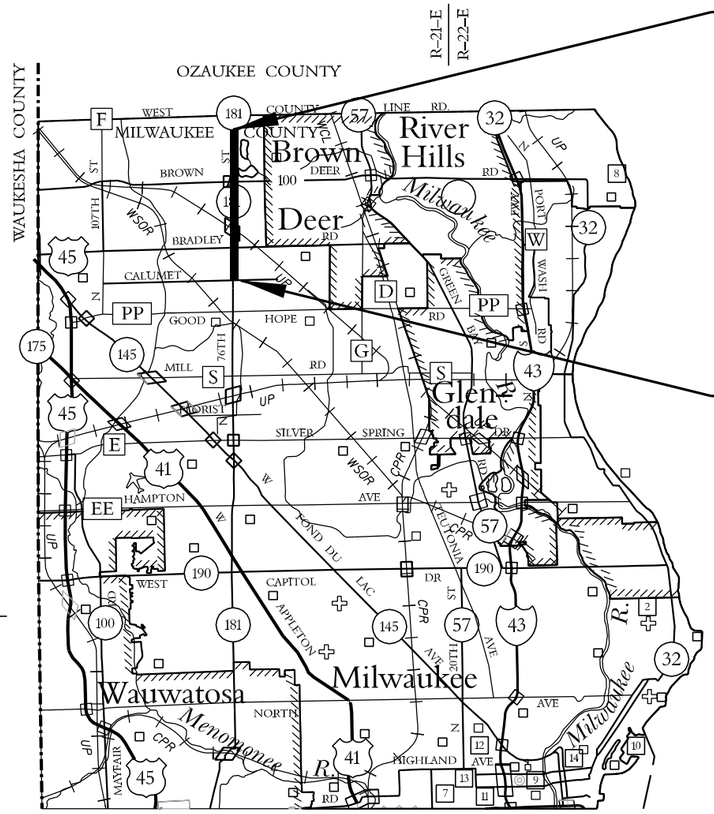
The most current Right of Way information should be viewed in DOTView using the Real Estate project ID. The plat information contained in this as-built plan may not be the final record.

GN

R/W PROJECT NUMBER	SHEET NUMBER	TOTAL SHEETS
2140-08-22		
FEDERAL PROJECT NUMBER	4.1	10

PLAT OF RIGHT-OF-WAY REQUIRED FOR
NORTH 76TH STREET
WEST CALUMET RD. -
WEST COUNTY LINE ROAD
STH 181
MILWAUKEE COUNTY

CONSTRUCTION PROJECT NUMBER



END RELOCATION ORDER

1,884.94 FEET NORTH OF AND
60.59 FEET EAST OF THE WEST 1/4
CORNER OF SECTION 3, T. 8 N., R. 21 E.

PROJECT 2140-08-22 STA. 279+00
= STA. 278+99.46 +/- PROJECT TO352(10).

EQUATION

BEGIN RELOCATION ORDER

AT THE EAST 1/4 CORNER OF SEC. 16,
T. 8 N., R. 21 E.
PROJECT 2140-08-22 STA. 152+83.97
= STA. 152+83.90 PROJECT TO352(10).

EQUATION

I HEREBY CERTIFY THAT THIS PLAT WAS MADE FOR THE STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION AND IS CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF.

NOTES

COORDINATES AND BEARINGS ON THIS PLAT ARE ORIENTED TO THE WISCONSIN COUNTY COORDINATE SYSTEM, MILWAUKEE COUNTY COUNTY ZONE, NAD 83 (1991) ADJUSTMENT. THE COORDINATES SHOWN ARE GRID COORDINATES AND ARE TO BE USED AS GRID OR GROUND VALUES ON THIS PLAT.

RIGHT-OF-WAY MONUMENTS ARE TYPE 2 AND WILL BE PLACED PRIOR TO THE COMPLETION OF THE PROJECT.

RIGHT-OF-WAY BOUNDARIES ARE DEFINED WITH COURSES OF THE PERIMETER OF THE HIGHWAY LANDS REFERENCED TO THE U.S. PUBLIC LAND SURVEY SYSTEM OR OTHER SURVEYS OF PUBLIC RECORD.

LAYOUT
SCALE 0 1 MI.

TOTAL NET LENGTH OF CENTERLINE = 2.389 MI.

STRAND ASSOCIATES, INC.® ENGINEERS

REVISION DATE

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED FOR REGION OFFICE

DATE: _____ _____ (Signature)

FILE NAME : s:\@SAI\051--100\089\099\Micros\DESIGN\0873\0873_Plat Related\040101_rw.dgn PLOT DATE : 7/30/2007 PLOT BY : $$...plotuser...$$ PLOT NAME : PLOT SCALE : $$.....plotscale.....$$ WISDOT/CADDS SHEET 50

SCHEDULE OF LANDS & INTERESTS REQUIRED

AREAS SHOWN IN THE TOTAL ACRES COLUMN MAY BE APPROXIMATE AND ARE DERIVED FROM TAX ROLLS OR OTHER AVAILABLE SOURCES AND MAY NOT INCLUDE LANDS OF THE OWNER WHICH ARE NOT CONTIGUOUS TO THE AREA TO BE ACQUIRED.

PARCEL NUMBER	SHEET NUMBER	OWNER	INTEREST REQUIRED	TOTAL ACRES OR S.F.	R/W ACRES REQUIRED OR S.F. NEW	EXISTING	TOTAL	TOTAL ACRES REM.	T.L.E. S.F.	P.L.E. S.F.
1	4.5	DANIEL W. BRUCKNER	T.L.E.						1,831	
2	4.5	SEEK INCORPORATED	T.L.E.						500	
3	4.5, 4.6	TF CO. (RUSS DARROW GROUP, INC.)	T.L.E.						1,511	
4	4.5, 4.6	D&F INVESTMENTS LLC	T.L.E.						498	
5										
6	4.6	DONALD R. MINOR & JOANNE MINOR	T.L.E.						3,172	
7	4.6	PTM & H JOINT VENTURE LESSEE (RUSS DARROW GROUP INC.)	T.L.E.						1,068	
8	4.6	SBS PARTNERSHIP	T.L.E.						732	
9	4.6	SOUBAN PHOMMARATH & PHOURATSAMY PATHAMMAVONG	T.L.E.						838	
10										
11	4.7	TCF NATIONAL BANK	T.L.E.						416	
12	4.7	CHICAGO BAKING COMPANY	T.L.E.						165	
13	4.7	BABER & ARIF INVESTMENTS LLC	T.L.E.						971	
14	4.7	ERVIN MARTENS & BEVERLY MARTENS	T.L.E.						471	
15										
16	4.7	DALJIT S. KLER & SATINDER K. KLER	T.L.E.						826	
17	4.7	NORTH 76TH, LLC	T.L.E.						1,216	
18	4.7	NORTHSTAR PLAZA ASSOCIATION, LLC	T.L.E.						1,793	
19	4.8	PADEK TRUST AGREEMENT CHARLOTTE L. PADEK, TRUSTEE	T.L.E.						966	
20										
21	4.8	MENARD, INC.	T.L.E.						569	
22	4.8	ROBERT L. PETERSON & SALLY R. PETERSON	T.L.E.						538	
23	4.8	BOB'S KWIK-PRINT INSTANT PRINTING CENTER, INC.	T.L.E.						24	
24	4.8	TRINITY HEALTH SERVICES, INC.	T.L.E.						44	
25										
26										
27										
28										
29	4.9, 4.10	TDC MILWAUKEE, LLC (PRIVATE ROAD)	T.L.E.						2,824	
30										
31	4.9, 4.10	WHITE BIRCH II HOUSING LTD PARTNERSHIP	T.L.E.						1,199	
32	4.10	ALEXIAN VILLAGE OF MILWAUKEE, INC	T.L.E.						5,428	
33	4.10	TEMPLE MENORAH	T.L.E.						1,701	
34	4.10	SPIRIT LIFE CHURCH, INC	T.L.E.						1,043	
35										

SCHEDULE OF LANDS & INTERESTS REQUIRED

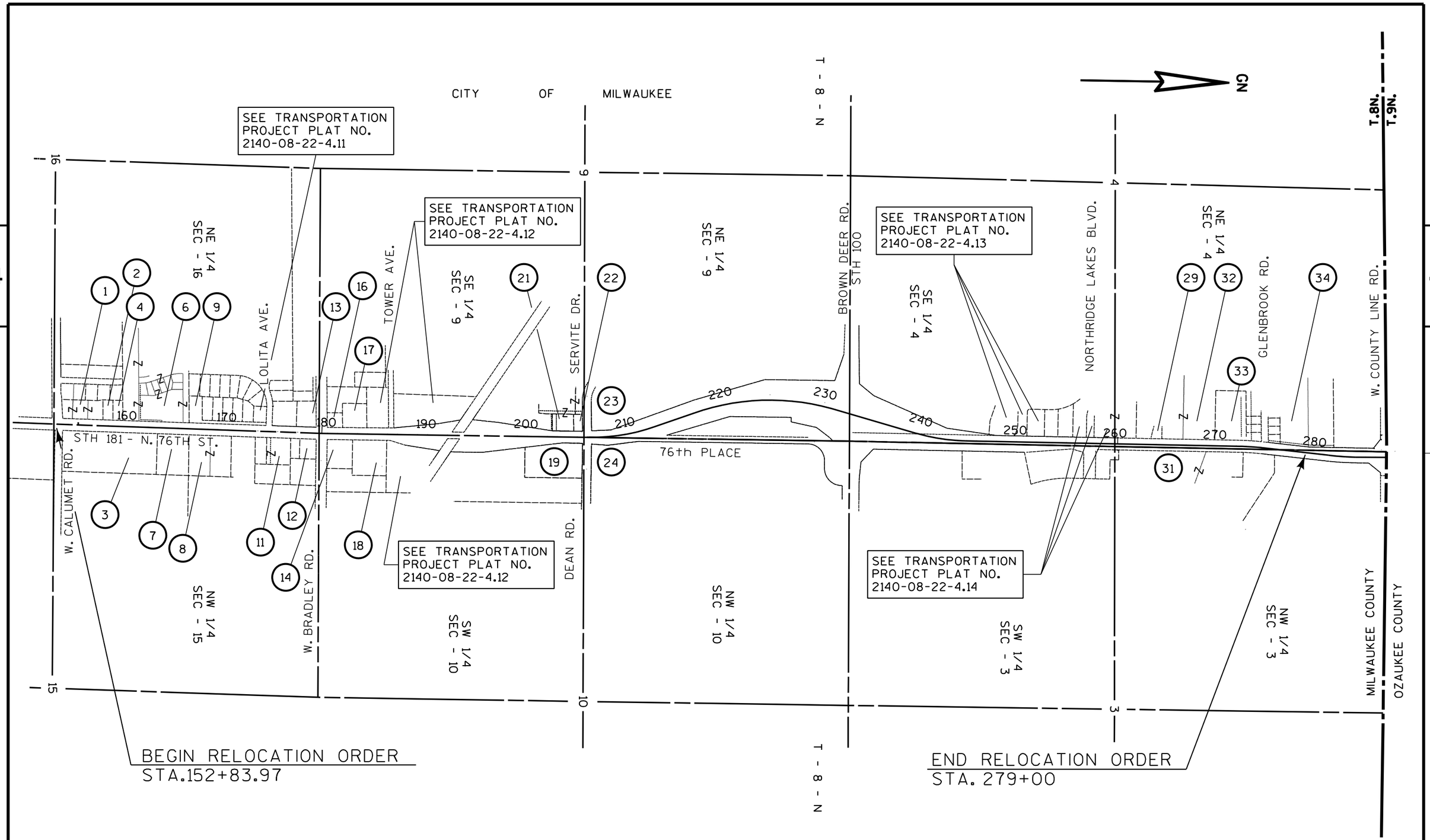
AREAS SHOWN IN THE TOTAL ACRES COLUMN MAY BE APPROXIMATE AND ARE DERIVED FROM TAX ROLLS OR OTHER AVAILABLE SOURCES AND MAY NOT INCLUDE LANDS OF THE OWNER WHICH ARE NOT CONTIGUOUS TO THE AREA TO BE ACQUIRED.

PARCEL NUMBER	SHEET NUMBER	OWNER	INTEREST REQUIRED	TOTAL ACRES OR S.F.	R/W ACRES REQUIRED OR S.F. NEW	EXISTING	TOTAL	TOTAL ACRES REM.	T.L.E. S.F.	P.L.E. S.F.
56	4.9, 4.10	WE ENERGIES - GAS	TEMPORARY RELEASE OF RIGHTS							
57	4.7, 4.8, 4.10	WE ENERGIES - ELECTRIC	TEMPORARY RELEASE OF RIGHTS							
58	4.5, 4.7 - 4.10	AT&T	TEMPORARY RELEASE OF RIGHTS							
59	4.7	MCLEOD USA	TEMPORARY RELEASE OF RIGHTS							
60	4.9, 4.10	CITY OF MILWAUKEE - WATER WORKS	TEMPORARY RELEASE OF RIGHTS							
61										
62	4.9, 4.10	CITY OF MILWAUKEE - SEWER	TEMPORARY RELEASE OF RIGHTS							

4

4

REVISION DATE	DATE 02/19/07	SCALE, FEET 0 N/A	HWY: STH 181 - N. 76TH ST.	STATE R/W PROJECT NUMBER 2140-08-22	PLAT SHEET NO: 4.3	
			COUNTY: MILWAUKEE	CONSTRUCTION PROJECT NUMBER	PS&E SHEET 669	E



REVISION DATE	DATE 02/19/07	NOT TO SCALE	HWY: STH 181 - N. 76TH ST.	STATE R/W PROJECT NUMBER 2140-08-22	PLAT SHEET NO: 4.4	
			COUNTY: MILWAUKEE	CONSTRUCTION PROJECT NUMBER	PS&E SHEET 670	E

FILE NAME : s:\@sai\051--100\089\099\micros\design\0873\0873_plat related\040104_rw.dgn PLOT DATE : 7/30/2007 PLOT BY : $$...plotuser...$$ PLOT NAME : PLOT SCALE : $$.....plotscale.....$$

WISDOT/CADDS SHEET 70

NOTE: EXISTING R/W BASED ON PREVIOUS PROJECT T 0352(10), NORTH 76TH ST., CITY OF MILWAUKEE "1/4 SECTION" MAPS, AND SURVEYS OF RECORD.

NOTE: IP COORDINATES SHOWN ARE FROM DESIGN TOPO SURVEY AND FOR INFORMATIONAL PURPOSES ONLY.

CITY OF MILWAUKEE

SAMS REAL ESTATE BUSINESS TRUST
PARCEL 1
C.S.M. 5642
REEL 2702
IMAGE 855

NE-SE SEC. 16

MCLEOD USA (FIBER)
CITY OF MILWAUKEE (DUCT)
AT&T - FIBER OPTIC
WE ENERGIES (GAS)
WE ENERGIES (ELECTRIC)

NOTE: PROJECT REFERENCE LINE IS THE EAST LINE, SE¼SEC. 16

N. 76TH ST. (STH 181)

145+00 150+00 155+00

N 02°13'34" E 2659.82'

60'

CAUTION

8072
T 8 N R 21 E 16 15

FOUND 6"X6" CONCRETE MONUMENT W/ NAIL
Y = 342380.964
X = 580498.098
P.I. STA. 152+83.97
Δ = 00°59'11"
Y = 427,690.77
X = 2,532,311.34
(RECORD SEWRPC NAD27)
STA. = 152+83.97
OFFSET = 0.00'

EQUATION

BEGIN RELOCATION ORDER
STA. 152+83.97
Y = 342380.964
X = 580498.098
PROJECT 2140-08-21 STA. 152+83.97
= STA. 152+83.90 PROJECT T0352(10).

WISDOT (SIGNALS)

8085
T 8 N R 21 E 16 15 21 22

BRASS PLUG IN CONCRETE
Y = 339723.151
X = 580394.777
Δ = 00°59'11"
Y = 425,031.55
X = 2,532,275.12
(RECORD SEWRPC NAD27)
STA. = 126+24.15
OFFSET = 0.00'

30-FOOT INGRESS - EGRESS EASEMENT

PARCEL 3
C.S.M. 5558
REEL 2576
IMAGE 1251

B&G REALTY INC.
(MARCUS THEATRES)

PARCEL 1
C.S.M. 2932

SBS PARTNERSHIP
PARCEL 2
C.S.M. 3308
REEL 1102
IMAGE 174

NW-SW SEC. 15

N 1°59'31" E 10.04' 153+42.29 TLE 70'
N 86°47'00" E 10.04' 153+53.25 TLE 60'
S 86°47'00" W 10.04'
TLE-TEMP SIGNALS 100 S.F.
153+43.21 TLE 60'
S 1°59'31" W 10.04'

PLAT OF CALUMET FARMS EAST

THE DAVID L. & KATHRYN V. ERLANDSON LIVING FUND
LOT 1

BLOCK 1
LOT 2
LOT 3
LOT 4
LOT 5
DAK PROP VI LLC

SE-NE SEC. 16

PARCEL 1
C.S.M. 3434
REEL 1146 IMAGE 1543
WE ENERGIES (GAS)

DANIEL W. BRUCKNER
PARCEL 2
C.S.M. 3434
REEL 1146 IMAGE 1543

PARCEL 3
C.S.M. 3434
REEL 1146 IMAGE 1543

SEEK INCORPORATED

45' 45' 45'

P.L.

S 1°59'31" W 46.75'
S 88°00'29" E 5.00'
154+00 TLE 60', 65'

NOTE: PROJECT REFERENCE LINE IS THE EAST LINE, NE¼SEC. 16

S 01°59'31" W 545.63'
TLE-SLOPES 1731 S.F.
TLE-SLOPES 500 S.F.
SLOPE INTERCEPTS

STA. 158+50 4.6

PI 152+83.97
61.63'

N 01°59'31" E 116.03'
S 88°00'29" E 60.00'
N 01°59'31" E 545.84'
N 01°59'31" E 240.00'
N 01°59'31" E 285.00'
N 01°59'31" E 2656.93'
N 88°00'29" W 60.00'
N 01°59'31" E 285.00'

N 45°32'45" E 87.08'
15' 60'
W. CALUMET ROAD

TF CO.
(RUSS DARROW GROUP, INC.)
3

N 88°00'29" W 5.00'
156+40 TLE 60', 65'
S 01°59'31" W 285.00'
TLE-SLOPES 1425 S.F.
SLOPE INTERCEPTS

58 AT&T
TEMPORARY RELEASE OF RIGHTS - BURIED CABLE

SW-NW SEC. 15

N 45°32'45" E 87.08'
N. 43°31'56" W 2.80'
153+47.08 TLE 60'
N 01°59'31" E 9.00'
153+56.08 TLE 60'
153+45.12 TLE 62'
N 89°03'24" W 6.00'
S 89°03'24" E 8.00'
153+45.23 TLE 68'
S 01°59'31" W 11.00'
153+56.08 TLE 68'
TLE-TEMP SIGNALS 86 S.F.

8059
T 8 N R 21 E 16 9 10 15

FOUND 6"X6" CONCRETE MONUMENT
W/ SEWRPC BRASS CAP
Y = 345,036.291
X = 580,590.455
Y = 430,347.22
X = 2,532,336.52
(RECORD SEWRPC NAD27)
STA. 179+40.91
OFFSET = 0.00'

MATCH LINE SEE SHEET 4

VAN ZANTEN LLC

NEW DD LLC

4

REVISION DATE	DATE 02/19/07	SCALE. FEET 0 50 100	HWY: STH 181-N. 76TH	STATE R/W PROJECT NUMBER 2140-08-22	PLAT SHEET NO: 4.5	
			COUNTY: MILWAUKEE	CONSTRUCTION PROJECT NUMBER	PS&E SHEET 671	E

FILE NAME : s:\@sai\051--100\089\099\micros\design\0873\0873_plat related\040105_rw.dgn PLOT DATE : 7/30/2007 PLOT BY : $$...plotuser...$$ PLOT NAME : PLOT SCALE : $$.....plotscale.....$$ WISDOT/CADDS SHEET 70

NOTE: EXISTING R/W BASED ON PREVIOUS PROJECT T 0352(10), NORTH 76TH ST., CITY OF MILWAUKEE "1/4 SECTION" MAPS, AND SURVEYS OF RECORD.

PLAT OF: OLD ORCHARD HIGHLANDS

SE-NE SEC. 16

LOT 2 | LOT 3 | LOT 4 | LOT 5 | LOT 6 | LOT 8

DAK PROPERTIES V LLC. — LOT 5

D&F INVESTMENTS LLC — (4)

DONALD R. MINOR & JOANNE MINOR — (6) — LOT 1 BLOCK 1

60-FOOT VACATED STREET

15-FOOT STORM SEWER EASTMENT

MCLEOD USA (FIBER) CITY OF MILWAUKEE (DUCT)

WE ENERGIES (ELECTRIC)

AT&T - FIBER OPTIC

P.L. "40 LINE"

CITY OF MILWAUKEE

NE-NE SEC. 16

ROBERT J. LUY — LOT 7

PATRICK G. MOORE

JEFFREY L. HOOVER

KEVIN J. LOMIEN

CARL M WERNER

ARTHUR MESZEWSKI & PATRICIA J

PETER B. HOLZSCHEITER

ROBERT D. LEONARD

PLAT OF: POLL-BER HEIGHTS BLOCK 2

SOUBAN PHOMMARATH & PHOURATSAMY PATHAMMAVONG — (9) — LOT 6

MONICA L. DANLEY — LOT 5

LAVERNE R. & GERALDINE R. LARRY — LOT 4

MICHELLE M. OLLENBURG — LOT 3

JEAN C. MESZEWSKI

CAUTION

SEE TRANSPORTATION PROJECT PLAT NO.2140-08-22-4.11

SLOPE INTERCEPTS

PUBILC SERVICE STREET

N. 76TH ST. (STH 181)

TLE-SLOPES 498 S.F. — S 01°59'31" W 545.63'

TLE-SLOPES 2972 S.F. — N 01°59'31" E 325.00'

TLE-SLOPES 838 S.F. — N 01°59'31" E 97.00'

TLE-SLOPES 1425 S.F. — S 01°59'31" W 285.00'

TLE-SLOPES 1068 S.F. — S 01°59'31" W 360.00'

TLE-SLOPES 732 S.F.

N 01°59'31" E 545.84'

N 01°59'31" E 40.00'

S01°59'31"W 40.00'

N 01°59'31" E 60.00'

N 88°00'29" W 60.00'

S 01°59'31" W 592.21'

N 89°37'01" E 60.05'

S 89°38'17" W 60.05'

N 01°59'31" E 285.00'

S 88°00'29" E 60.00'

N 01°59'31" E 2656.93' (N 00°32'35" E 2656.82' SEWRPC)

N 01°59'31" E 350.00'

N 01°59'31" E 344.70'

N 01°59'31" E 1186.91'

N 88°00'29" W 60.00'

S 88°00'29" E 15.30'

N 01°59'31" E 360.00'

S 88°00'29" E 60.00'

160+00 — 101.70'

165+00

170+00

SEE SHEET MATCH LINE

8072

TF COMPANY (RUSS DARROW GROUP INC.) — (3)

PTM & H JOINT VENTURE LESSEE (RUSS DARROW GROUP INC.) — (7)

SBS PARTNERSHIP — (8)

SW-NW SEC. 15

NW-NW SEC. 15

NOTE: PROJECT REFERENCE LINE IS THE WEST LINE OF THE NW¼, SEC. 15

PARCEL 2 CSM 4636 REEL 1777 IMAGE 711

8059

FOUND 6"x6" CONCRETE MONUMENT W/ NAIL
Y = 342380.964
X = 580498.098
STA. = 152+83.97
OFFSET = 0.00'
Y = 427,690.77
X = 2,532,311.34
(RECORD SEWRPC NAD27)

FOUND 6"x6" CONCRETE MONUMENT W/ SEWRPC BRASS CAP
Y = 345036.291
X = 580590.455
STA. = 179+40.91
OFFSET = 0.00'
Y = 430,347.22
X = 2,532,336.52
(RECORD SEWRPC NAD 27)

PARCEL 1 CSM 6951 FALLS MEDICAL BUILDING COMPANY (ADVANCED HEALTH CARE SC)

NOTE: IP COORDINATES SHOWN ARE FROM DESIGN TOPO SURVEY AND FOR INFORMATIONAL PURPOSES ONLY.

20022	Y = 344,139.890	X = 580,469.440
120023	Y = 344,039.968	X = 580,466.018 ¾" I.P.
120024	Y = 343,935.492	X = 580,463.885 1" I.P.
120025	Y = 343,839.300	X = 580,458.969 1½" I.P.

REVISION DATE	DATE 02/19/07	SCALE. FEET 0 50 100	HWY: STH 181-N. 76TH	STATE R/W PROJECT NUMBER 2140-08-22	PLAT SHEET NO: 4.6
			COUNTY: MILWAUKEE	CONSTRUCTION PROJECT NUMBER	PS&E SHEET 672 E

FILE NAME : s:\@sai\051--100\089\099\micros\design\0873\0873_plat related\040106_rw.dgn PLOT DATE : 7/30/2007 PLOT BY : $$...plotuser...$$ PLOT NAME : PLOT SCALE : $$.....plotscale.....$$ WISDOT/CADDS SHEET 70

NOTE: EXISTING R/W BASED ON PREVIOUS PROJECT T 0352(10), NORTH 76TH ST., CITY OF MILWAUKEE "1/4 SECTION" MAPS, AND SURVEYS OF RECORD.

GN

CITY OF MILWAUKEE

JOHN R. & GEORGIA L. RESZEL
BLOCK 1
LOT 20
NE-NE SEC. 16

MAYKA VANG

CORNERSTONE EAST LLC.
C.S.M. 6406
PARCEL 2

58 AT&T
TEMPORARY RELEASE OF RIGHTS - 1 PEDESTAL

CORNERSTONE EAST, LLC

SE-SE SEC. 9

SEE TRANSPORTATION PROJECT PLAT NO.2140-08-22-4.11

SEE TRANSPORTATION PROJECT PLAT NO.2140-08-22-4.12

W. LOLITA AVE.

Y & T 1 LLC

NOTE: PROJECT REFERENCE LINE IS THE EAST LINE OF THE NE1/4 OF SEC. 16

AT&T - FIBER OPTIC

WE ENERGIES (ELECTRIC)
SLOPE INTERCEPTS

BABER & ARIF INVESTMENTS LLC

DALJIT S KLER
SATINDER K KLER

17 NORTH 76TH, LLC
C.S.M. 6406
PARCEL 1
REEL 4132 IMAGE 1104

MCLEOD USA (FIBER)
CITY OF MILWAUKEE (DUCT)

WIS DOT SIGNAL UTILITIES

WE ENERGIES (GAS)

SLOPE INTERCEPTS

TOWER AVE.

L & S REAL ESTATE HOLDING, LLC
C.S.M. 6075
PARCEL 2
REEL 3491 IMAGE 752

MCLEOD USA (FIBER)

N. 76TH ST. (STH 181)

W. BRADLEY RD.

SLOPE INTERCEPTS

WISDOT SIGNALS

BARRY A. KOPLEIN
PARCEL 2
C.S.M. 2909

CHICAGO BAKING COMPANY
PARCEL 1
C.S.M. 2909
REEL 960 IMAGE 694

12 WE ENERGIES (ELECTRIC)

57 WE ENERGIES (ELECTRIC)
TEMPORARY RELEASE OF RIGHTS - PEDESTAL

59 MCLEOD USA
TEMPORARY RELEASE OF RIGHTS - FIBER OPTIC CABLE

58 AT&T
TEMPORARY RELEASE OF RIGHTS - PEDESTAL, AND BURIED CABLE

18 WIS DOT SIGNAL UTILITIES

NORTHSTAR PLAZA ASSOCIATION, LLC
C.S.M. 4987
PARCEL 1
REEL 2125 IMAGE 1171

SEE SHEET 4.6 MATCH LINE

7910 NORTH 76 LLC

TCF NATIONAL BANK
PARCEL 1
C.S.M. 4510
REEL 1678 IMAGE 61

NW-NW SEC. 15

7505 WEST BRADLEY RD. LLC.

ERVIN MARTENS & BEVERLY MARTENS

MARTENS TRUE VALUE HARDWARE INC.

RD DIRECT, LLC

C.S.M. 4236
PARCEL 1
REEL 1473 IMAGE 93

CONCRETE MONUMENT W/ WISDOT ALUMINIUM CAP
Y = 347693.839
X = 580630.050
STA. = 205+98.75
OFFSET = 0.00'

SEE TRANSPORTATION PROJECT PLAT NO.2140-08-22-4.12

SW-SW SEC. 10

FOUND 6"x6" CONCRETE MONUMENT W/ CAP
Y = 342380.964
X = 580498.098
STA. = 152+83.97
OFFSET = 0.00'
Y = 427,690.77
X = 2,532,311.34
(RECORD SEWRPC NAD27)

CONC. MONUMENT W/ SEWRPC BRASS CAP
Y = 345036.291
X = 580590.455
STA. = 179+40.91
OFFSET = 0.00'
Y = 430,347.22
X = 2,532,336.52
(RECORD SEWRPC NAD27)

N 01°59'31" E 2266.02'
N 01°59'31" E 335.86'
N 01°59'31" E 2656.93' (N 00°32'35" E 2656.82' SEWRPC)
N 00°51'13" E 2,657.84' (N 00°35'37" W 2657.81' SEWRPC)
N 00°51'13" E 596.28'

NOTE: IP COORDINATES SHOWN ARE FROM DESIGN TOPO SURVEY AND FOR INFORMATIONAL PURPOSES ONLY.

5227	Y = 345,686.616 X = 580,660.346
10014	Y = 345,871.050 X = 580,707.598 1" I.P.
10015	Y = 345,719.584 X = 580,660.589 RR TIE
10017	Y = 345,345.312 X = 580,654.983 1" I.P.
10018	Y = 345,487.889 X = 580,537.172 1" I.P.
16787	Y = 345,687.034 X = 580,659.410
20019	Y = 344,538.660 X = 580,513.200
40004	Y = 344,543.068 X = 580,268.784 1" I.P.
120008	Y = 344,780.848 X = 580,521.527 1" I.P.
120021	Y = 344,479.646 X = 580,481.036 1" I.P.

REVISION DATE	DATE 02/19/07	SCALE. FEET 0 50 100	HWY: STH 181-N. 76TH	STATE R/W PROJECT NUMBER 2140-08-22	PLAT SHEET NO: 4.7
			COUNTY: MILWAUKEE	CONSTRUCTION PROJECT NUMBER	PS&E SHEET 673 E

FILE NAME : s:\@sai\051--100\089\099\micros\design\0873\0873_plat related\040107_rw.dgn PLOT DATE : 7/30/2007 PLOT BY : $$...plotuser...$$ PLOT NAME : PLOT SCALE : $$.....plotscale.....$$ WISDOT/CADDS SHEET 70

NOTE: EXISTING R/W BASED ON PREVIOUS PROJECT T 0352(10), NORTH 76TH ST., CITY OF MILWAUKEE "1/4 SECTION" MAPS, AND SURVEYS OF RECORD.

NOTE: IP COORDINATES SHOWN ARE FROM DESIGN TOPO SURVEY AND FOR INFORMATIONAL PURPOSES ONLY.

CITY OF MILWAUKEE

GN

NE-SE SEC. 9

SE-NE SEC. 9

NW-SW SEC. 10

SW-NW SEC. 10

57 WE ENERGIES - ELECTRIC
TEMPORARY RELEASE
OF RIGHTS - POWER POLE

22 ROBERT L PETERSON
SALLY R PETERSON

MENARD, INC.

AMATO FAMILY LIMITED
LOT 1
C.S.M. 4640

21 MENARD, INC.
LOT 2
C.S.M. 6181
REEL 3708 IMAGE 530

LOT 2
C.S.M. 6181
REEL 3708 IMAGE 530

23 BOB'S KWIK-PRINT
INSTANT PRINTING CENTER, INC.
C.S.M. 2812
PARCEL 1
REEL 927 IMAGE 1220

SERVITE DR.

DEAN RD.

T.L.E. - TEMP. SIGNALS
24 S.F.

P.I. = 209+52.56
Y = 348,047.61
X = 580,635.23
DELTA = 19° 57' 06" (LT)
D = 3° 00' 00"
T = 335.93'
L = 665.06'
R = 1,909.86'
P.C. = 206+16.63
P.T. = 212+81.68

SLOPE INTERCEPTS

NOTE: PROJECT REFERENCE LINE IS THE EAST LINE OF THE SE 1/4, SECTION 9

WE ENERGIES
(ELECTRIC)

MCLEOD USA (FIBER)
CITY OF MILWAUKEE (DUCT)

WISDOT SIGNALS

N. 76TH ST. (STH 181)

N 00°51'13" E 2657.84' (N 00°35'37" W 2657.815 SEWRPC)

TIME WARNER CABLE

8059
CONC. MONUMENT W/
SEWRPC BRASS CAP
Y = 345036.291
X = 580590.455
STA. 179+40.91
OFFSET = 0.00'
Y = 430,347.22
X = 2,532,336.52
(RECORD SEWRPC NAD27)

AT&T ON
WE ENERGIES
POWER POLES

58 AT&T
TEMPORARY RELEASE
OF RIGHTS - 1-PEDESTAL
AND BURIED CABLE

19 PADEK TRUST AGREEMENT,
CHARLOTTE L. PADEK, TRUSTEE
C.S.M. 3592
PARCEL 1
REEL 1195 IMAGE 381

24 TRINITY HEALTH
SERVICES, INC.
C.S.M. 1821
PARCEL A
REEL 651 IMAGE 768

TIME WARNER
CABLE (FIBER)

WE ENERGIES
(ELECTRIC)

WE ENERGIES
(GAS)

8046
CONCRETE MONUMENT W/
WISDOT ALUMINUM CAP
Y = 347693.839
X = 580630.050
STA. = 205+98.75
OFFSET = 0.00'
Y = 433,004.64
X = 2,532,308.99
(RECORD SEWRPC NAD27)

58 AT&T
TEMPORARY RELEASE
OF RIGHTS - BURIED CABLE &
EASEMENT RELEASE
(WISCONIN TELEPHONE CO.
DOC. NO. 4765195)

30050
CONCRETE MONUMENT
CAST IRON PLUG
Y = 350349.547
X = 580669.072
STA. = 233+95.62
OFFSET = 256.27' RT
Y = 435,660.24
X = 2,532,280.88
(RECORD SEWRPC NAD 27)

REVISION DATE	DATE 02/19/07	SCALE, FEET 0 50 100	HWY: STH 181-N. 76TH	STATE R/W PROJECT NUMBER 2140-08-22	PLAT SHEET NO: 4.8	
			COUNTY: MILWAUKEE	CONSTRUCTION PROJECT NUMBER	PS&E SHEET	E

FILE NAME : s:\@sai\051--100\089\099\micros\design\0873\0873_plat related\040108_rw.dgn PLOT DATE : 7/30/2007 PLOT BY : $$...plotuser...$$ PLOT NAME : PLOT SCALE : $$.....plotscale.....$$ WISDOT/CADDS SHEET 70

NOTE: EXISTING R/W BASED ON PREVIOUS PROJECT T 0352(10), NORTH 76TH ST., CITY OF MILWAUKEE "1/4 SECTION" MAPS, AND SURVEYS OF RECORD.

NE - SE SEC. 4

CITY OF MILWAUKEE

SE - NE SEC. 4

GN

SEE TRANSPORTATION PROJECT PLAT NO. 2140-08-22-4.13

SEE TRANSPORTATION PROJECT PLAT NO. 2140-08-22-4.14

TDC MILWAUKEE, LLC
PARCEL 2 (PRIVATE ROAD)
C.S.M. 7548
DOC. NO. 08957222

NORTHRIDGE OFFICE BUILDING
C.S.M. 1819
PARCEL 3
REEL 651 IMAGE 754

NORTH MILWAUKEE STATE BANK
C.S.M. 1820
PARCEL 1
REEL 651 IMAGE 763

ATIREAL ESTATE OF WISCONSIN LLC
C.S.M. 2036
PARCEL 1
REEL 708 IMAGE 1504

XL CORP
C.S.M. 2036
PARCEL 2
REEL 708 IMAGE 1504

SPEEDWAY SUPERAMERICA, LLC
CANOPY
C.S.M. 2036
PARCEL 3
REEL 708 IMAGE 1504

WINDMILL HILL, LLC
C.S.M. 2216
PARCEL 2
REEL 753 IMAGE 163

CITY OF MILWAUKEE - WATER WORKS
60 TEMPORARY RELEASE OF RIGHTS
EASEMENT REEL 604 IMAGE 271
PARCEL 4 (WATER EASEMENT WE-295 D)

CITY OF MILWAUKEE - SEWER
62 TEMPORARY RELEASE OF RIGHTS
EASEMENT REEL 604 IMAGE 271
PARCEL A (SEWER EASEMENT SE-1972)

WE ENERGIES - GAS
56 TEMPORARY RELEASE OF RIGHTS - GAS MAIN

AT&T
58 TEMPORARY RELEASE OF RIGHTS - BURIED CABLE

ALEXIAN ELDERLY SERVICE, INC.

TLE-SLOPES
2824 S.F.

C.S.M. 2216
PARCEL 1
REEL 753 IMAGE 163

WE ENERGIES (ELECTRIC)

WISDOT (SIGNALS)

SLOPE INTERCEPTS

CAUTION

FILLER CAPS

PHONE

250+00

255+00 N. 76TH ST. (STH 181)

260+00 POT 260+12.11

N 88°49'59" W 87.01'

S 88°52'50" E 87.09'

N 88°53'43" W 87.14'

N 01°09'51" E 2675.08'

S 01°09'51" W 682.05'

N 01°05'58" E 2694.72'

N 01°05'58" E 347.97'

N 01°05'58" E 934.29'

N 01°15'28" E 53.96'

N 01°09'51" E 53.89'

S 88°52'50" E 9.89'

S 01°10'01" W 53.97'

N 88°49'59" W 9.98'

252+76.03 TLE 70'

252+76.04 TLE 60.11'

N 88°53'43" W 29.82'

263+60.00 TLE 60.18', 90°

N 01°05'56" E 105.00'

STA. 264+00 4.10

TIME WARNER CABLE (FIBER)

MCLEOD USA (FIBER)
CITY OF MILWAUKEE (DUCT)

WE ENERGIES (ELECTRIC & GAS)

NORTHRIDGE LAKES LIMITED PARTNERSHIP AND NRL ASSOCIATES LIMITED PARTNERSHIP

NW - SW SEC. 3

SW - NW SEC. 3

NORTHRIDGE LAKES BLVD.

120'

GRANVILLE HOLDING LLC

EXISTING 10' SEWER EASEMENT SE-1877

255+50.77 59.96'

255+57.54 60.00'

256+62.82 88.20'

256+75.38 105.28'

258+08.28 60.03'

259+35.38 72.92'

P.L.

BLDG

INL

SS

SAN

W

MH

SIGN

FO

OH

10053 10055 10056 10052 10045 10042 10044 10043 10041 10026 10027 10028 10058 10051 10059 10020 10004 10047 10040 19021 19020 19004 7103 9199 9206 5875 17328 17329 17330 17331 17332 17333 17334 17327

205
CONCRETE MONUMENT W/ SEWRPC BRASS CAP IN HAND HOLE
Y = 355700.309
X = 580774.759
STA. = 287+11.14
OFFSET = 56.25 LT
Y = 441,011.96
X = 2,532,251.72
(RECORD SEWRPC NAD27)

MATCH LINE SEE SHEET

30050
CONCRETE MONUMENT W/ CAST IRON PLUG
Y = 350349.547
X = 580669.072
STA. = 233+95.62
OFFSET = 256.27' RT
Y = 435,660.24
X = 2,532,280.88
(RECORD SEWRPC NAD27)

19015
IRON PLUG W/ CROSS IN CONCRETE
Y = 353006.082
X = 580723.060
STA. = 260+12.05
OFFSET = 26.95' RT
Y = 438,317.59
X = 2,532,267.95
(RECORD SEWRPC NAD27)

NOTE: IP COORDINATES SHOWN ARE FROM DESIGN TOPO SURVEY AND FOR INFORMATIONAL PURPOSES ONLY.

5875	Y = 353,005.564 X = 580,756.174	10053	Y = 352,127.762 X = 580,348.224 1" I.P.
7103	Y = 351,965.341 X = 580,614.311 1" I.P.	10055	Y = 351,986.402 X = 580,345.105 CHIS "X"
9199	Y = 352,693.362 X = 580,616.398 CHIS "X"	10056	Y = 352,009.585 X = 580,369.687 CHIS "X"
9206	Y = 352,770.504 X = 580,617.895 1" I.P.	10058	Y = 351,988.936 X = 580,582.583 CHIS "X"
10026	Y = 353,387.383 X = 580,411.101 PK NAIL	10059	Y = 351,965.410 X = 580,614.370 1" I.P.
10027	Y = 353,374.777 X = 580,516.949 CHIS "X"	17327	Y = 352,092.568 X = 580,779.549 1" I.P.
10028	Y = 353,341.990 X = 580,631.890 1" I.P.	17328	Y = 352,544.223 X = 580,746.669 1" I.P.
10040	Y = 352,774.029 X = 580,631.013 1" I.P.	17329	Y = 352,550.990 X = 580,746.845 1" I.P.
10041	Y = 352,774.716 X = 580,412.435 1" I.P.	17330	Y = 352,655.675 X = 580,777.183 1" I.P.
10042	Y = 352,765.193 X = 580,362.266 PK NAIL	17331	Y = 352,667.890 X = 580,794.515 1" I.P.
10043	Y = 352,697.635 X = 580,410.929 CHIS "X"	17332	Y = 352,661.722 X = 581,036.456 PK NAIL
10044	Y = 352,696.694 X = 580,411.372 1" I.P.	17333	Y = 352,782.467 X = 581,044.779 CHIS "X"
10045	Y = 352,709.055 X = 580,361.116 CHIS "X"	17334	Y = 352,787.911 X = 580,764.100 1" I.P.
10047	Y = 352,689.350 X = 580,629.331 CHIS "X"	19004	Y = 352,272.000 X = 580,621.030 1" I.P.
10050	Y = 352,102.535 X = 580,617.482 1" I.P.	19009	Y = 352,406.579 X = 580,623.985 1" I.P.
10051	Y = 352,099.043 X = 580,604.389 1" I.P.	19020	Y = 352,102.550 X = 580,617.450 1" I.P.
10052	Y = 352,102.919 X = 580,372.247 1" I.P.	19021	Y = 353,191.395 X = 580,639.600 1" I.P.

31
WHITE BIRCH II HOUSING LTD PARTNERSHIP
NORTHRIDGE LAKES LOT 6

REVISION DATE	DATE 02/19/07	SCALE. FEET 0 50 100	HWY: STH 181-N. 76TH	STATE R/W PROJECT NUMBER 2140-08-22	PLAT SHEET NO: 4.9
			COUNTY: MILWAUKEE	CONSTRUCTION PROJECT NUMBER	PS&E SHEET 675 E

FILE NAME : s:\@sai\051--100\089\099\micros\design\0873\0873_plat related\040109_rw.dgn PLOT DATE : 7/30/2007 PLOT BY : $$...plotuser...$$ PLOT NAME : PLOT SCALE : $$.....plotscale.....$$ WISDOT/CADDS SHEET 70

NOTE: EXISTING R/W BASED ON PREVIOUS PROJECT T 0352(10), NORTH 76TH ST., CITY OF MILWAUKEE "1/4 SECTION" MAPS, AND SURVEYS OF RECORD.

GN

NE - NE SEC. 4

SE - NE SEC. 4

SW - NW SEC. 3

NW - NW SEC. 3

CITY OF MILWAUKEE

WE ENERGIES - GAS 50-FOOT EASEMENT

(29) TDC MILWAUKEE, LLC
PARCEL 2 (PRIVATE ROAD)
C.S.M. 7548
DOC. NO. 08957222

(60) CITY OF MILWAUKEE - WATER WORKS
TEMPORARY RELEASE OF RIGHTS
EASEMENT REEL 604 IMAGE 271
PARCEL 4 (WATER EASEMENT WE-295 D)

(62) CITY OF MILWAUKEE - SEWER
TEMPORARY RELEASE OF RIGHTS
EASEMENT REEL 604 IMAGE 271
PARCEL A (SEWER EASEMENT SE-1972)

(57) WE ENERGIES - ELECTRIC
TEMPORARY RELEASE OF RIGHTS - UNDERGROUND ELECTRIC

(56) WE ENERGIES - GAS
TEMPORARY RELEASE OF RIGHTS - GAS MAIN

(58) AT&T
TEMPORARY RELEASE OF RIGHTS - BURIED CABLE

(56) WE ENERGIES - GAS
TEMPORARY RELEASE OF RIGHTS - EASEMENT

ALEXIAN VILLAGE OF MILWAUKEE, INC.
(32) C.S.M. 7510
LOT 1
DOC. NO. 08908362

TEMPLE MENORAH
(33) C.S.M 3280
PARCEL 1
REEL 1087 IMAGE 791

(34) SPIRIT LIFE CHRUCH, INC.
C.S.M. 3520
PARCEL 2
REEL 1168 IMAGE 483

GRANVILLE HOLDINGS LLC
PLAT OF RIDGEVIEW ADDITION NO. 1
BLOCK 12
LOT 5
LOT 6
LOT 7
LOT 8

PLAT OF RIDGEVIEW ADDITION NO. 1
BLOCK 11
LOT 8
LOT 9
LOT 10
SIDNEY KOHL
LOT 11

EQUATION
LOT 9

GLENBROOK ROAD

"40 LINE"

END RELOCATION ORDER
STA. 279+00
Y = 354,891.024
X = 580,783.651
PRJECT 2140-08-22 STA 279+00
= STA. 278+99.46 +/- PROJECT T0352(10)

STA. 264+00
4.9

TLE-SLOPES 2824 S.F.
N 01°05'56" E 105.00'
TLE 70', 90'
264+65.00
S 88°54'10" E 20.00'

WE ENERGIES (ELECTRIC)
WE ENERGIES (GAS)

N 01°03'04" E 262.39'
N 01°07'24" E 771.68'
N 01°05'55" E
N 01°05'58" E 587.98'
N 88°54'05" W 33.05'
N 88°54'05" W 9.99'
266+00 TLE 60.01', 70'
N 01°05'58" E 120.00'
S 88°54'05" E 33.05'
S 88°54'05" E 9.99'
267+20 TLE 60.01', 70'
N 01°05'58" E 2694.72'
N 01°05'58" E 574.28'
S 01°05'58" W 934.29'

TLE-SLOPES 1199 S.F.
S 01°05'55" W 120.00'
S 01°05'53" W 120.00'

N 01°05'56" E 550.00'
TLE-SLOPES 5428 S.F.
SLOPE INTERCEPTS

270+15.00 TLE 65', 70
S 88°54'05" E 5.00'
N 01°06'59" E 214.76'
TLE-SLOPES 1701 S.F.

CAUTION
L. = 66.91'
L.C. = 66.91'
L.C.B. = N 01°51'58" E
R. = 2613.00'

272+29.75 64.93'
272+95.00 TLE 55.00', 64.80'
272+29.75 59.93'

N. 76TH ST. (STH 181)

265+00
270+00
272+29.75
PC 272+29.35
PT 274+66.92
275+00

P.I. = 273+48.22
Y = 354,342.55
X = 580,721.74
DELTA = 5° 20' 31" (RT)
D = 2° 14' 55"
T = 118.87'
L = 237.56'
R = 2,548.00'
P.C. = 272+29.35
P.T. = 274+66.91

L. = 66.76'
L.C. = 66.78'
L.C.B. = S 01°51'59" W
R. = 2608.00'

S 87°23'53" E 5.00'
S 87°23'53" E 86.03'
P.I. 273+48.22
344.64' N 01°05'58" E
55.24' N 01°05'58" E

263+40.95 60.17'
264+25.08 60.26'
276+40.00 TLE 60.04', 79'
N 83°33'33" W 18.96'
N 06°26'27" E 55.00'
TLE-SLOPES 1043 S.F.
276+95.00 TLE 60.02', 79'
S 83°33'33" E 18.98'
N 83°33'33" W 59.83'
S 83°33'33" E 54.66'
S 06°28'00" W 55.00'

SLOPE INTERCEPTS EXISTING 10' SEWER EASEMENT

WEST LINE, SECTION 3

SLOPE INTERCEPTS

WE ENERGIES (ELECTRIC)
MCLEOD USA (FIBER)
CITY OF MILWAUKEE (DUCT)
MILWAUKEE COUNTY

TIME WARNER CABLE (FIBER)

WE ENERGIES (ELECTRIC)

MCLEOD USA (FIBER)
CITY OF MILWAUKEE (DUCT)
(OUTSIDE LINE)

MATCH LINE SEE SHEET

WHITE BIRCH II HOUSING LTD PARTNERSHIP
(31) NORTHRIDGE LAKES
LOT 6

RIDGEWOOD APARTMENTS

(62) CITY OF MILWAUKEE - SEWER
TEMPORARY RELEASE OF RIGHTS - SEWER EASEMENT
EASEMENT REEL 484 IMAGE 1629
SEWER EASEMENT SE-1877

19015
T 8 N R 21 E
4 3
IRON PLUG W/ CROSS
IN CONCRETE
Y = 353006.082
X = 580723.060
STA. = 260+12.05
OFFSET = 26.95' RT
Y = 438,317.59
X = 2,532,267.95
(RECORD SEWRPC NAD27)

205
T 8 N R 21 E
4 3
CONCRETE MONUMENT
W/ SEWRPC BRASS CAP
IN HAND HOLE
Y = 355700.309
X = 580774.759
STA. = 287+11.14
OFFSET = 56.25' LT
Y = 441,011.96
X = 2,532,251.72
(RECORD SEWRPC NAD27)

NOTE: IP COORDINATES SHOWN ARE FROM DESIGN TOPO SURVEY AND FOR INFORMATIONAL PURPOSES ONLY.

10000	Y = 354,915.624	X = 580,726.132 1" I.P.
10001	Y = 354,635.294	X = 580,694.358 1" I.P.
10002	Y = 354,517.000	X = 580,681.184 2" I.P.
10003	Y = 354,447.536	X = 580,673.436 2" BENT I.P.
10004	Y = 354,296.043	X = 580,662.206 2" I.P.
10022	Y = 353,453.737	X = 580,664.414 1" I.P.
10023	Y = 353,450.216	X = 580,631.358 1" I.P.
10024	Y = 353,451.852	X = 580,518.429 1" I.P.
10025	Y = 353,443.484	X = 580,412.191 PK NAIL
10026	Y = 353,387.383	X = 580,411.101 PK NAIL
10027	Y = 353,374.777	X = 580,516.949 CHIS "X"

REVISION DATE	DATE 02/19/07	SCALE. FEET 0 50 100	HWY: STH 181-N. 76TH	STATE R/W PROJECT NUMBER 2140-08-22	PLAT SHEET NO: 4.10
			COUNTY: MILWAUKEE	CONSTRUCTION PROJECT NUMBER	PS&E SHEET 676 E

FILE NAME : s:\@sai\051--100\089\099\micros\design\0873\0873_plat related\040110_rw.dgn PLOT DATE : 7/30/2007 PLOT BY : $$...plotuser...$$ PLOT NAME : PLOT SCALE : $$.....plotscale.....$$

WISDOT/CADDS SHEET 70

SCHEDULE OF LANDS & INTERESTS REQUIRED

AREAS SHOWN IN THE TOTAL ACRES COLUMN MAY BE APPROXIMATE AND ARE DERIVED FROM TAX ROLLS OR OTHER AVAILABLE SOURCES AND MAY NOT INCLUDE LANDS OF THE OWNER WHICH ARE NOT CONTIGUOUS TO THE AREA TO BE ACQUIRED.

PARCEL NUMBER	OWNER	INTEREST REQUIRED	R/W S. F. REQUIRED NEW	EXISTING	TOTAL	T.L.E. S.F.
101	PATRICK D. & JEAN M. IVERSON	FEE, TLE	1174	---	1174	837

TRANSPORTATION PROJECT PLAT NO. 2140-08-22-4.11

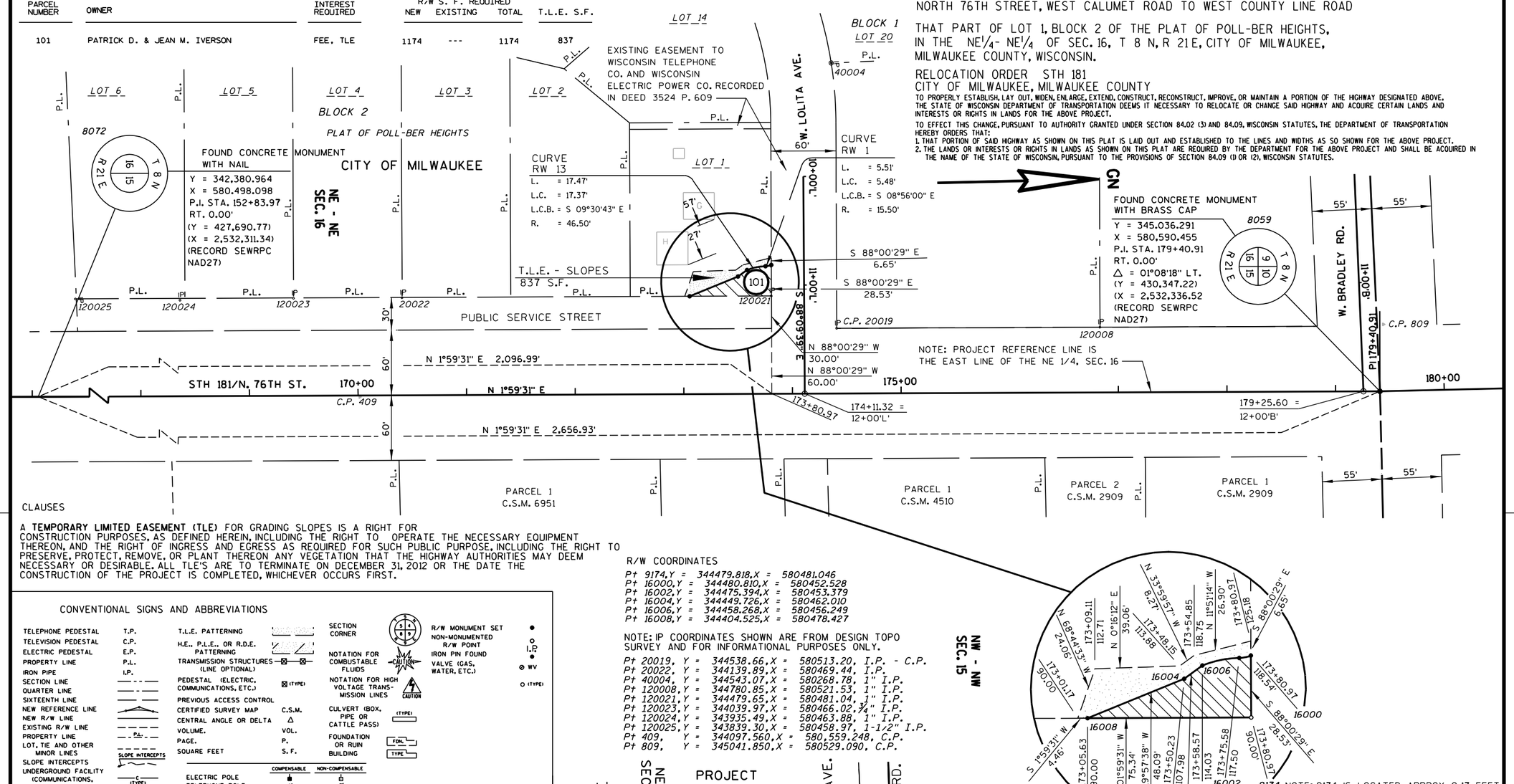
NORTH 76TH STREET, WEST CALUMET ROAD TO WEST COUNTY LINE ROAD

THAT PART OF LOT 1, BLOCK 2 OF THE PLAT OF POLL-BER HEIGHTS, IN THE NE1/4- NE1/4 OF SEC. 16, T 8 N, R 21 E, CITY OF MILWAUKEE, MILWAUKEE COUNTY, WISCONSIN.

RELOCATION ORDER STH 181
CITY OF MILWAUKEE, MILWAUKEE COUNTY

TO PROPERLY ESTABLISH, LAY OUT, WIDEN, ENLARGE, EXTEND, CONSTRUCT, RECONSTRUCT, IMPROVE, OR MAINTAIN A PORTION OF THE HIGHWAY DESIGNATED ABOVE, THE STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION DEEMS IT NECESSARY TO RELOCATE OR CHANGE SAID HIGHWAY AND ACQUIRE CERTAIN LANDS AND INTERESTS OR RIGHTS IN LANDS FOR THE ABOVE PROJECT.

TO EFFECT THIS CHANGE, PURSUANT TO AUTHORITY GRANTED UNDER SECTION 84.02 (3) AND 84.09, WISCONSIN STATUTES, THE DEPARTMENT OF TRANSPORTATION HEREBY ORDERS THAT:
1. THAT PORTION OF SAID HIGHWAY AS SHOWN ON THIS PLAT IS LAID OUT AND ESTABLISHED TO THE LINES AND WIDTHS AS SO SHOWN FOR THE ABOVE PROJECT.
2. THE LANDS OR INTERESTS OR RIGHTS IN LANDS AS SHOWN ON THIS PLAT ARE REQUIRED BY THE DEPARTMENT FOR THE ABOVE PROJECT AND SHALL BE ACQUIRED IN THE NAME OF THE STATE OF WISCONSIN, PURSUANT TO THE PROVISIONS OF SECTION 84.09 (1) OR (2), WISCONSIN STATUTES.



CLAUSES

A **TEMPORARY LIMITED EASEMENT (TLE)** FOR GRADING SLOPES IS A RIGHT FOR CONSTRUCTION PURPOSES, AS DEFINED HEREIN, INCLUDING THE RIGHT TO OPERATE THE NECESSARY EQUIPMENT THEREON, AND THE RIGHT OF INGRESS AND EGRESS AS REQUIRED FOR SUCH PUBLIC PURPOSE, INCLUDING THE RIGHT TO PRESERVE, PROTECT, REMOVE, OR PLANT THEREON ANY VEGETATION THAT THE HIGHWAY AUTHORITIES MAY DEEM NECESSARY OR DESIRABLE. ALL TLE'S ARE TO TERMINATE ON DECEMBER 31, 2012 OR THE DATE THE CONSTRUCTION OF THE PROJECT IS COMPLETED, WHICHEVER OCCURS FIRST.

CONVENTIONAL SIGNS AND ABBREVIATIONS

TELEPHONE PEDESTAL	T.P.	T.L.E. PATTERNING	
TELEVISION PEDESTAL	C.P.	H.E., P.L.E., OR R.D.E. PATTERNING	
ELECTRIC PEDESTAL	E.P.	TRANSMISSION STRUCTURES (LINE OPTIONAL)	
PROPERTY LINE	P.L.	PEDESTAL (ELECTRIC, COMMUNICATIONS, ETC.)	(TYPE)
IRON PIPE	I.P.	PREVIOUS ACCESS CONTROL	
SECTION LINE		CERTIFIED SURVEY MAP	C.S.M.
QUARTER LINE		CENTRAL ANGLE OR DELTA	△
SIXTEENTH LINE		VOLUME.	VOL.
NEW REFERENCE LINE		PAGE.	P.
NEW R/W LINE		SQUARE FEET	S. F.
EXISTING R/W LINE			
PROPERTY LINE	P.L.		
LOT, TIE AND OTHER MINOR LINES			
SLOPE INTERCEPTS	SLOPE INTERCEPTS		
UNDERGROUND FACILITY (COMMUNICATIONS, ELECTRIC, ETC.)	C (TYPE)		
FENCE			

	COMPENSABLE	NON-COMPENSABLE
ELECTRIC POLE		
TELEPHONE POLE		
PEDESTAL	(TYPE)	(TYPE)

SECTION CORNER		R/W MONUMENT SET	●
		NON-MONUMENTED R/W POINT	○ I.P
NOTATION FOR COMBUSTABLE FLUIDS	CAUTION	IRON PIN FOUND	●
NOTATION FOR HIGH VOLTAGE TRANSMISSION LINES	CAUTION	VALVE (GAS, WATER, ETC.)	⊘ WV
CULVERT (BOX, PIPE OR CATTLE PASS)	(TYPE)		○ (TYPE)
FOUNDATION OR RUIN	FDN.		
BUILDING	TYPE		

NOTES:

COORDINATES AND BEARINGS ON THE PLAT ARE REFERENCED TO THE WISCONSIN COUNTY COORDINATE SYSTEM, MILWAUKEE COUNTY, (ENGLISH), NAD 1983 (1991) ADJUSTMENT. ALL COORDINATES AND DISTANCES ARE GROUND.

RIGHT-OF-WAY MONUMENTS ARE TYPE 2 (3/4" REBAR UNLESS OTHERWISE NOTED) AND WILL BE PLACED PRIOR TO THE COMPLETION OF THE PROJECT.

RIGHT-OF-WAY BOUNDARIES ARE DEFINED WITH COURSES OF THE PERIMETER OF THE HIGHWAY LANDS REFERENCED TO THE U.S. PUBLIC LAND SURVEY OR OTHER SURVEYS OF RECORD.

PROPERTY LINES SHOWN ON THIS PLAT ARE DRAWN FROM MAPS AND DOCUMENTS OF PUBLIC RECORD AND/OR EXISTING OCCUPATIONAL LINES. EXCLUDING RIGHT-OF-WAY BOUNDARIES, THIS PLAT MAY NOT BE A TRUE REPRESENTATION OF EXISTING PROPERTY LINES AND SHOULD NOT BE USED AS A SUBSTITUTE FOR AN ACCURATE FIELD SURVEY.

EXISTING RIGHT OF WAY AND ACCESS CONTROL SHOWN HEREIN IS BASED ON THE FOLLOWING POINTS OF REFERENCE: PREVIOUS R/W PROJECT I.D. T 0352(10), NORTH 76TH ST AND THE PLAT OF POLL-BER HEIGHTS.

DIMENSIONING FOR THE NEW R/W IS MEASURED ALONG AND PERPENDICULAR TO NEW REFERENCE LINES.

DIMENSIONS FROM BUILDING CORNERS TO R/W LINES AS SHOWN ARE APPROXIMATE ONLY.

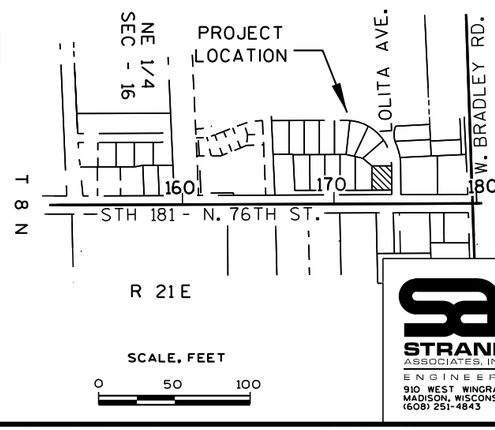
OWNER'S NAMES ARE SHOWN FOR REFERENCE PURPOSES ONLY AND ARE SUBJECT TO CHANGE PRIOR TO THE TRANSFER OF LAND INTERESTS TO THE DEPARTMENT.

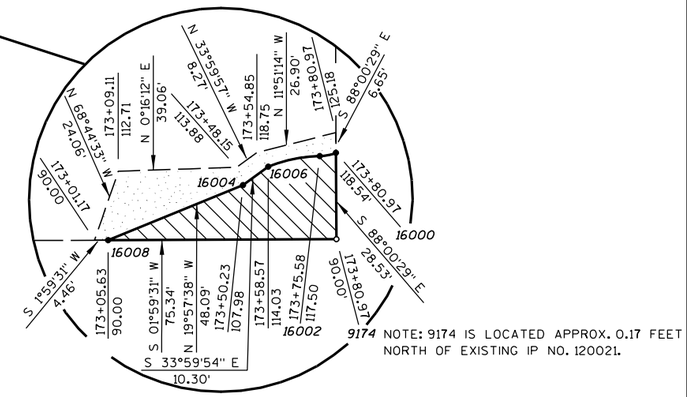
R/W COORDINATES

Pt 9174, Y = 344479.818, X = 580481.046
Pt 16000, Y = 344480.810, X = 580452.528
Pt 16002, Y = 344475.394, X = 580453.379
Pt 16004, Y = 344449.726, X = 580462.010
Pt 16006, Y = 344458.268, X = 580456.249
Pt 16008, Y = 344404.525, X = 580478.427

NOTE: IP COORDINATES SHOWN ARE FROM DESIGN TOPO SURVEY AND FOR INFORMATIONAL PURPOSES ONLY.

Pt 20019, Y = 344538.66, X = 580513.20, I.P. - C.P.
Pt 20022, Y = 344139.89, X = 580469.44, I.P.
Pt 40004, Y = 344543.07, X = 580268.78, 1" I.P.
Pt 120008, Y = 344780.85, X = 580521.53, 1" I.P.
Pt 120021, Y = 344479.65, X = 580481.04, 1" I.P.
Pt 120023, Y = 344039.97, X = 580466.02, ¾" I.P.
Pt 120024, Y = 343935.49, X = 580463.88, 1" I.P.
Pt 120025, Y = 343839.30, X = 580458.97, 1-1/2" I.P.
Pt 409, Y = 344097.560, X = 580,559.248, C.P.
Pt 809, Y = 345041.850, X = 580529.090, C.P.





9174 NOTE: 9174 IS LOCATED APPROX. 0.17 FEET NORTH OF EXISTING IP NO. 120021.

I HEREBY CERTIFY THAT THIS PLAT MEETS ALL REQUIREMENTS OF SECTION 84.095, WISCONSIN STATUTES. THIS PLAT IS APPROVED FOR THE WISCONSIN DEPARTMENT OF TRANSPORTATION REGIONAL OFFICE.

DATE:_____

_____
Kenneth L. Wickham
Wisconsin Department of Transportation
North Central Region, Wisconsin Rapids
Technical Services Chief

RESERVED FOR REGISTER OF DEEDS
PROJECT NUMBER 2140 - 08 - 22 - 4.11

ACCEPTED FOR RECORDING AND FILING IN THE OFFICE OF THE REGISTER OF DEEDS IN _____ COUNTY, WISCONSIN AT _:_ .M ON _____ AS DOCUMENT #_____ AND FILED IN _____

_____
SIGNATURE OF REGISTER OF DEEDS

I, TERRANCE L. GENSKE, REGISTERED LAND SURVEYOR, HEREBY CERTIFY THAT IN FULL COMPLIANCE WITH THE PROVISIONS OF SECTION 84.095 OF THE WISCONSIN STATUTES AND UNDER THE DIRECTION OF THE DEPARTMENT, I HAVE SURVEYED AND MAPPED TRANSPORTATION PROJECT PLAT 2140-08-22-4.11 AND THAT SUCH PLAT CORRECTLY REPRESENTS ALL EXTERIOR BOUNDARIES OF THE SURVEYED LAND.

DATE: _____ (SIGNATURE) _____
Terrance L. Genske
Agent for Strand Associates, Inc.
R.L.S. NUMBER 1443

STRAND ASSOCIATES, INC®
ENGINEERS
910 WEST WINGRA DRIVE
MADISON, WISCONSIN 53715
(608) 251-4843

SCHEDULE OF LANDS & INTERESTS REQUIRED

AREAS SHOWN IN THE TOTAL ACRES COLUMN MAY BE APPROXIMATE AND ARE DERIVED FROM TAX ROLLS OR OTHER AVAILABLE SOURCES AND MAY NOT INCLUDE LANDS OF THE OWNER WHICH ARE NOT CONTIGUOUS TO THE AREA TO BE ACQUIRED.

PARCEL NUMBER	OWNER (S)	INTEREST REQUIRED	R/W S.F. REQUIRED NEW	EXISTING	TOTAL	T.L.E. S.F
201	CORNERSTONE EAST LLC	FEE, TLE	371	---	371	1994
202	RD DIRECT LLC	FEE, TLE	333	---	333	832
203	L & S REAL ESTATE HOLDING, LLC	FEE	318	---	318	---
58	AT&T	RELEASE OF RIGHTS				
59	MCLEOD USA	RELEASE OF RIGHTS				
58	AT&T	TEMPORARY RELEASE OF RIGHTS				

SCALE, FEET 0 25 50

TRANSPORTATION PROJECT PLAT NO. 2140-08-22-4.12

NORTH 76TH STREET, WEST CALUMET ROAD TO WEST COUNTY LINE ROAD

THAT PART OF PARCEL 2 OF CSM 6075, AND OTHER LANDS IN THE SE¼- SE¼ OF SEC. 9, AND THAT PART OF PARCEL 1 OF CSM 4236 IN THE SW¼- SW¼ OF SEC. 10, ALL IN T 8 N, R 21 E, CITY OF MILWAUKEE, MILWAUKEE COUNTY, WISCONSIN.

RELOCATION ORDER STH 181
CITY OF MILWAUKEE, MILWAUKEE COUNTY

TO PROPERLY ESTABLISH, LAY OUT, WIDEN, ENLARGE, EXTEND, CONSTRUCT, RECONSTRUCT, IMPROVE, OR MAINTAIN A PORTION OF THE HIGHWAY DESIGNATED ABOVE, THE STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION DEEMS IT NECESSARY TO RELOCATE OR CHANGE SAID HIGHWAY AND ACQUIRE CERTAIN LANDS AND INTERESTS OR RIGHTS IN LANDS FOR THE ABOVE PROJECT.

TO EFFECT THIS CHANGE, PURSUANT TO AUTHORITY GRANTED UNDER SECTION 84.02 (3) AND 84.09, WISCONSIN STATUTES, THE DEPARTMENT OF TRANSPORTATION HEREBY ORDERS THAT:
1. THAT PORTION OF SAID HIGHWAY AS SHOWN ON THIS PLAT IS LAID OUT AND ESTABLISHED TO THE LINES AND WIDTHS AS SO SHOWN FOR THE ABOVE PROJECT.
2. THE LANDS OR INTERESTS OR RIGHTS IN LANDS AS SHOWN ON THIS PLAT ARE REQUIRED BY THE DEPARTMENT FOR THE ABOVE PROJECT AND SHALL BE ACQUIRED IN THE NAME OF THE STATE OF WISCONSIN, PURSUANT TO THE PROVISIONS OF SECTION 84.09 (1) OR (2), WISCONSIN STATUTES.

CONVENTIONAL SIGNS AND ABBREVIATIONS

TELEPHONE PEDESTAL T.P.
TELEVISION PEDESTAL C.P.
ELECTRIC PEDESTAL E.P.
PROPERTY LINE P.L.
IRON PIPE I.P.
SECTION LINE
QUARTER LINE
SIXTEENTH LINE
NEW REFERENCE LINE
NEW R/W LINE
EXISTING R/W LINE
PROPERTY LINE
LOT, TIE AND OTHER MINOR LINES
SLOPE INTERCEPTS
UNDERGROUND FACILITY (COMMUNICATIONS, ELECTRIC, ETC.)
FENCE

T.L.E. PATTERNING
H.E., P.L.E., OR R.D.E. PATTERNING
TRANSMISSION STRUCTURES (LINE OPTIONAL)
PEDESTAL (ELECTRIC, COMMUNICATIONS, ETC.)
PREVIOUS ACCESS CONTROL
CERTIFIED SURVEY MAP C.S.M.
CENTRAL ANGLE OR DELTA Δ
VOLUME. VOL.
PAGE. P.
SQUARE FEET S.F.

SECTION CORNER
NOTATION FOR COMBUSTABLE FLUIDS
NOTATION FOR HIGH VOLTAGE TRANSMISSION LINES
CULVERT (BOX, PIPE OR CATTLE PASS)
FOUNDATION OR RUIN
BUILDING

R/W MONUMENT SET
NON-MONUMENTED R/W POINT
IRON PIN FOUND I.P.
VALVE (GAS, WATER, ETC.) WV
RECORDED AS ( )

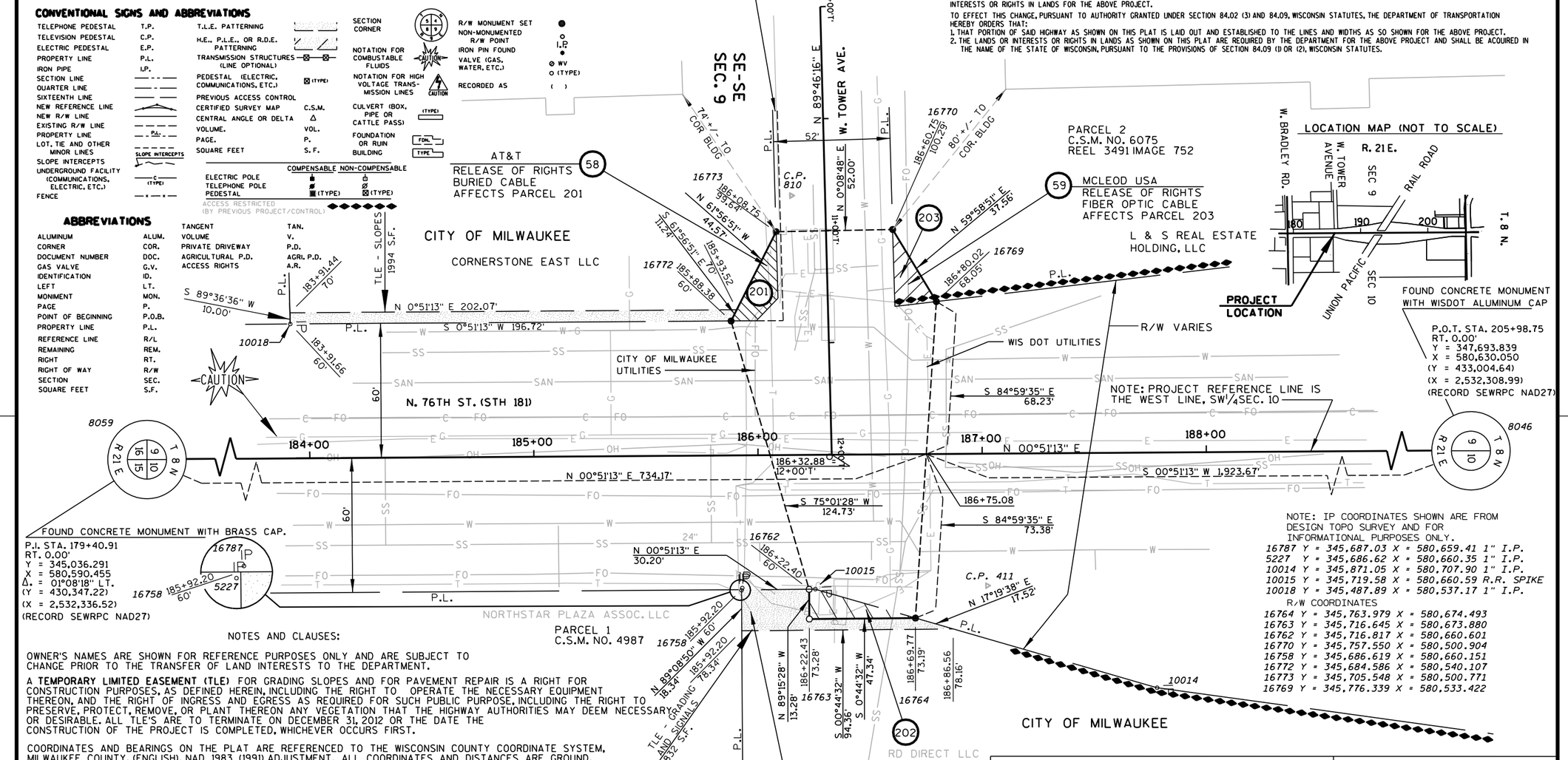
	COMPENSABLE	NON-COMPENSABLE
ELECTRIC POLE		
TELEPHONE POLE		
PEDESTAL	(TYPE)	(TYPE)

ACCESS RESTRICTED (BY PREVIOUS PROJECT/CONTROL)

ABBREVIATIONS

ALUMINUM ALUM.
CORNER COR.
DOCUMENT NUMBER DOC.
GAS VALVE G.V.
IDENTIFICATION ID.
LEFT LT.
MONIMENT MON.
PAGE P.
POINT OF BEGINNING P.O.B.
PROPERTY LINE P.L.
REFERENCE LINE R/L
REMAINING REM.
RIGHT RT.
RIGHT OF WAY R/W
SECTION SEC.
SQUARE FEET S.F.

TANGENT TAN.
VOLUME V.
PRIVATE DRIVEWAY P.D.
AGRICULTURAL P.D. AGRI. P.D.
ACCESS RIGHTS A.R.



NOTES AND CLAUSES:

OWNER'S NAMES ARE SHOWN FOR REFERENCE PURPOSES ONLY AND ARE SUBJECT TO CHANGE PRIOR TO THE TRANSFER OF LAND INTERESTS TO THE DEPARTMENT.

A **TEMPORARY LIMITED EASEMENT (TLE)** FOR GRADING SLOPES AND FOR PAVEMENT REPAIR IS A RIGHT FOR CONSTRUCTION PURPOSES, AS DEFINED HEREIN, INCLUDING THE RIGHT TO OPERATE THE NECESSARY EQUIPMENT THEREON, AND THE RIGHT OF INGRESS AND EGRESS AS REQUIRED FOR SUCH PUBLIC PURPOSE, INCLUDING THE RIGHT TO PRESERVE, PROTECT, REMOVE, OR PLANT THEREON ANY VEGETATION THAT THE HIGHWAY AUTHORITIES MAY DEEM NECESSARY OR DESIRABLE. ALL TLE'S ARE TO TERMINATE ON DECEMBER 31, 2012 OR THE DATE THE CONSTRUCTION OF THE PROJECT IS COMPLETED, WHICHEVER OCCURS FIRST.

COORDINATES AND BEARINGS ON THE PLAT ARE REFERENCED TO THE WISCONSIN COUNTY COORDINATE SYSTEM, MILWAUKEE COUNTY, (ENGLISH), NAD 1983 (1991) ADJUSTMENT. ALL COORDINATES AND DISTANCES ARE GROUND.

RIGHT-OF-WAY MONUMENTS ARE TYPE 2 (3/4" REBAR UNLESS OTHERWISE NOTED) AND WILL BE PLACED PRIOR TO THE COMPLETION OF THE PROJECT (POINTS 16762 AND 16763 FALL IN THE PARKING LOT AND MAY NOT BE MONUMENTED WITH REBAR).

RIGHT-OF-WAY BOUNDARIES ARE DEFINED WITH COURSES OF THE PERIMETER OF THE HIGHWAY LANDS REFERENCED TO THE U.S. PUBLIC LAND SURVEY OR OTHER SURVEYS OF RECORD.

PROPERTY LINES SHOWN ON THIS PLAT ARE DRAWN FROM DATA DERIVED FROM MAPS AND DOCUMENTS OF PUBLIC RECORD AND/OR EXISTING OCCUPATIONAL LINES. THIS PLAT MAY NOT BE A TRUE REPRESENTATION OF EXISTING PROPERTY LINES, EXCLUDING RIGHT-OF-WAY LINES, AND SHOULD NOT BE USED AS A SUBSTITUTE FOR AN ACCURATE FIELD SURVEY.

EXISTING RIGHT OF WAY SHOWN HEREIN IS BASED ON THE FOLLOWING POINTS OF REFERENCE:

EXISTING HIGHWAY RIGHT OF WAY AND ACCESS CONTROL FOR STH 181 (N. 76TH ST.) AND TOWER DRIVE ESTABLISHED FROM PREVIOUS PROJECT I.D. T 0352(10), FROM C.S.M. NO.'S 6075, 4236, 4987, AND FROM THE CITY OF MILWAUKEE 1/4 SECTION TAX MAPS.

DIMENSIONING FOR THE NEW R/W IS MEASURED ALONG AND PERPENDICULAR TO NEW REFERENCE LINES.

DIMENSIONS FROM BUILDINGS TO R/W LINES AS SHOWN ARE APPROXIMATE ONLY.

I HEREBY CERTIFY THAT THIS PLAT MEETS ALL REQUIREMENTS OF SECTION 84.095, WISCONSIN STATUTES. THIS PLAT IS APPROVED FOR THE WISCONSIN DEPARTMENT OF TRANSPORTATION.

DATE:_____ _____
Kenneth L. Wickham
Wisconsin Department of Transportation
North Central Region, Wisconsin Rapids
Technical Services Chief

RESERVED FOR REGISTER OF DEEDS
PROJECT NUMBER 2140 - 08 - 22 - 4.12

ACCEPTED FOR RECORDING AND FILING IN THE OFFICE OF THE REGISTER OF DEEDS IN _____ COUNTY, WISCONSIN AT __:__ .M ON _____ AS DOCUMENT *_____ AND FILED IN _____

_____
SIGNATURE OF REGISTER OF DEEDS

STRAND ASSOCIATES, INC®
ENGINEERS
910 WEST WINGRA DRIVE
MADISON, WISCONSIN 53715
(608) 251-4843

I, TERRANCE L. GENSKE, REGISTERED LAND SURVEYOR, HEREBY CERTIFY THAT IN FULL COMPLIANCE WITH THE PROVISIONS OF SECTION 84.095 OF THE WISCONSIN STATUTES AND UNDER THE DIRECTION OF THE DEPARTMENT, I HAVE SURVEYED AND MAPPED TRANSPORTATION PROJECT PLAT 2140-08-22-4.12 AND THAT SUCH PLAT CORRECTLY REPRESENTS ALL EXTERIOR BOUNDARIES OF THE SURVEYED LAND.

DATE: _____ (SIGNATURE) _____
Terrance L. Genske
Agent for Strand Associates, Inc.
R.L.S. NUMBER 1443

FILE NAME : s:\@SAI\051--100\089\099\Micros\DESIGN\0873\0873_Plat Related\21400822_4.12_TPP.dgn PLOT DATE : 7/30/2007
APPRAISAL PLAT DATE : 11/07/06
PLOT BY : $$...plotuser...$$ PLOT NAME : PLOT SCALE : $$.....plotscale.....$$

4.12

SCHEDULE OF LANDS & INTERESTS REQUIRED

AREAS SHOWN IN THE TOTAL ACRES COLUMN MAY BE APPROXIMATE AND ARE DERIVED FROM TAX ROLLS OR OTHER AVAILABLE SOURCES AND MAY NOT INCLUDE LANDS OF THE OWNER WHICH ARE NOT CONTIGUOUS TO THE AREA TO BE ACQUIRED.

PARCEL NUMBER	OWNER (S)	INTEREST REQUIRED	R/W S.F. REQUIRED NEW	EXISTING	TOTAL	P.L.E. S.F.	T.L.E. S.F.
301	GRANVILLE PROFESSIONAL BUILDING L.L.C.	PLE, TLE	---	---	---	584	1,050
302	TDC MILWAUKEE, L.L.C.	PLE, TLE	---	---	---	5,661	2,698
303	NORTH MILWAUKEE STATE BANK	PLE, TLE	---	---	---	953	2,181
62	CITY OF MILWAUKEE - SEWER	RELEASE OF RIGHTS					

NOTE: IP COORDINATES SHOWN ARE FROM DESIGN TOPO SURVEY AND FOR INFORMATIONAL PURPOSES ONLY.

417, Y =	352280.60, X =	580755.52, CP
7103, Y =	351965.34, X =	580614.31, 1" IP
10051, Y =	352099.04, X =	580604.39, 1" IP
10058, Y =	351988.94, X =	580582.58, "X"
17327, Y =	352092.57, X =	580779.55, 1" IP
19004, Y =	352272.00, X =	580621.03, 1" IP
19020, Y =	352102.55, X =	580617.45, 1" IP
7100, Y =	352006.72, X =	580518.66, 1" IP

TRANSPORTATION PROJECT PLAT NO. 2140-08-22-4.13 - AMENDMENT NO. 1 AMENDS PARCEL NO.S 301, 302 & 303 OF TRANSPORTATION PROJECT PLAT 2140-08-22-4.13, RECORDED AS DOCUMENT NO. 09442421

NORTH 76TH STREET, WEST CALUMET ROAD TO WEST COUNTY LINE ROAD

THAT PART OF PARCEL 3 OF CSM 1819, PARCEL 2 OF CSM 7548, AND PARCEL 1 OF CSM 1820, ALL IN THE NE¼- SE¼ OF SEC. 4, T 8 N, R 21 E, CITY OF MILWAUKEE, MILWAUKEE COUNTY, WISCONSIN.

RELOCATION ORDER STH 181

CITY OF MILWAUKEE, MILWAUKEE COUNTY

TO PROPERLY ESTABLISH, LAY OUT, WIDEN, ENLARGE, EXTEND, CONSTRUCT, RECONSTRUCT, IMPROVE, OR MAINTAIN A PORTION OF THE HIGHWAY DESIGNATED ABOVE, THE STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION DEEMS IT NECESSARY TO RELOCATE OR CHANGE SAID HIGHWAY AND ACQUIRE CERTAIN LANDS AND INTERESTS OR RIGHTS IN LANDS FOR THE ABOVE PROJECT.

TO EFFECT THIS CHANGE, PURSUANT TO AUTHORITY GRANTED UNDER SECTION 84.02 (3) AND 84.09, WISCONSIN STATUTES, THE DEPARTMENT OF TRANSPORTATION HEREBY ORDERS THAT:

1. THAT PORTION OF SAID HIGHWAY AS SHOWN ON THIS PLAT IS LAID OUT AND ESTABLISHED TO THE LINES AND WIDTHS AS SO SHOWN FOR THE ABOVE PROJECT.
2. THE LANDS OR INTERESTS OR RIGHTS IN LANDS AS SHOWN ON THIS PLAT ARE REQUIRED BY THE DEPARTMENT FOR THE ABOVE PROJECT AND SHALL BE ACQUIRED IN THE NAME OF THE STATE OF WISCONSIN, PURSUANT TO THE PROVISIONS OF SECTION 84.09 (1) OR (2), WISCONSIN STATUTES.

CONVENTIONAL SIGNS AND ABBREVIATIONS

TELEPHONE PEDESTAL T.P.
TELEVISION PEDESTAL C.P.
ELECTRIC PEDESTAL E.P.
PROPERTY LINE P.L.
IRON PIPE I.P.
SECTION LINE
QUARTER LINE
SIXTEENTH LINE
NEW REFERENCE LINE
NEW R/W LINE
EXISTING R/W LINE
PROPERTY LINE P.L.
LOT, TIE AND OTHER MINOR LINES
SLOPE INTERCEPTS
UNDERGROUND FACILITY (COMMUNICATIONS, ELECTRIC, ETC.) C (TYPE)
FENCE

T.L.E. PATTERNING
H.E., P.L.E., OR R.D.E. PATTERNING
TRANSMISSION STRUCTURES (LINE OPTIONAL)
PEDESTAL (ELECTRIC, COMMUNICATIONS, ETC.) (TYPE)
PREVIOUS ACCESS CONTROL
CERTIFIED SURVEY MAP C.S.M.
CENTRAL ANGLE OR DELTA Δ
VOLUME. VOL.
PAGE. P.
SQUARE FEET S. F.

SECTION CORNER
NOTATION FOR COMBUSTABLE FLUIDS
NOTATION FOR HIGH VOLTAGE TRANSMISSION LINES
CULVERT (BOX, PIPE OR CATTLE PASS) (TYPE)
FOUNDATION OR RUIN FDN.
BUILDING TYPE

R/W MONUMENT SET
NON-MONUMENTED R/W POINT
IRON PIN FOUND
VALVE (GAS, WATER, ETC.)
RECORDED AS

COMPENSABLE NON-COMPENSABLE
ELECTRIC POLE
TELEPHONE POLE (TYPE) (TYPE)
PEDESTAL
ACCESS RESTRICTED (BY PREVIOUS PROJECT/CONTROL)

ABBREVIATIONS

ALUMINUM	ALUM.	REFERENCE LINE	R/L
CORNER	COR.	REMAINING	REM.
DOCUMENT NUMBER	DOC.	RIGHT	RT.
GAS VALVE	G.V.	RIGHT OF WAY	R/W
IDENTIFICATION	ID.	SECTION	SEC.
LEFT	LT.	SQUARE FEET	S.F.
MONIMENT	MON.	TANGENT	TAN.
PAGE	P.	VOLUME	V.
POINT OF BEGINNING	P.O.B.	PRIVATE DRIVEWAY	P.D.
PROPERTY LINE	P.L.	AGRICULTURAL P.D.	AGRI. P.D.
		ACCESS RIGHTS	A.R.

CITY OF MILWAUKEE

TDC MILWAUKEE, L.L.C. PARCEL 2 C.S.M. NO. 7548 DOC. NO. 8957222

EXISTING 30-FOOT SEWER EASEMENT

T.L.E. - SLOPES 1050 S.F.

T.L.E. - SLOPES & PAVING REPAIR 2698 S.F.

T.L.E. - SLOPES 132 S.F.

PRIVATE ROAD

GRANVILLE PROFESSIONAL BUILDING L.L.C.

PARCEL 1 C.S.M. NO. 1820 REEL 651 IMAGE 763 NORTH MILWAUKEE STATE BANK

PARCEL 3 C.S.M. NO. 1819 REEL 651 IMAGE 754

BUILDING

NE-SE SEC. 4

NW-SW SEC. 3

PRIVATE ELECTRIC & PRIVATE STORM SEWER

P.L.E. - TRAFFIC SIGNAL FACILITIES, RELATED CABLING, AND APPURTENANCES 584 S.F.

P.L.E. - TRAFFIC SIGNAL FACILITIES, RELATED CABLING, AND APPURTENANCES 5,661 S.F.

P.L.E. - TRAFFIC SIGNAL FACILITIES, RELATED CABLING, AND APPURTENANCES 953 S.F.

T.L.E. - SLOPES 2,049 S.F.

WIS DOT UTILITIES

CAUTION

FOUND CONCRETE MONUMENT WITH CAST IRON PLUG
Y = 350,349.547
X = 580,669.072
STA. = 233+95.62
OFFSET = 256.27' RT
(Y = 435,660.24)
(X = 2,532,280.88)
(RECORD SEWRPC NAD27)

62 CITY OF MILWAUKEE - SEWER RELEASE OF RIGHTS 30-FOOT STORM SEWER EASEMENT (PARCEL A SE-1970) AFFECT'S PARCEL 301 REEL 604 IMAGE 264 (PARCEL B SE-1971) AFFECTS PARCEL 302 REEL 593 IMAGE 1487

FOUND CAST IRON PLUG WITH CROSS IN CONCRETE
Y = 353,006.082
X = 580,723.060
STA. 260+12.05
OFFSET = 26.95' RT
(Y = 438,317.59)
(X = 2,532,267.95)
(RECORD SEWRPC NAD27)

N. 76TH ST. (STH 181)

R/W VARIES

LOT 3 PLAT OF NORTHRIDGE LAKES

LOT 4 PLAT OF NORTHRIDGE LAKES

C.P. 417

PROJECT LOCATION
R. 21 E.
T. 8 N.
W. BRADLEY ROAD
PRIVATE ROADS
NORTHRIDGE LAKES BLVD
SEC 4
SEC 3
240
260

SCALE, FEET
0 25 50

NOTES AND CLAUSES

COORDINATES AND BEARINGS ON THE PLAT ARE REFERENCED TO THE WISCONSIN COUNTY COORDINATE SYSTEM, MILWAUKEE COUNTY, (ENGLISH), NAD 1983 (1991) ADJUSTMENT. ALL COORDINATES AND DISTANCES ARE GROUND.

RIGHT-OF-WAY MONUMENTS ARE TYPE 2 (3/4" REBAR UNLESS OTHERWISE NOTED) AND WILL BE PLACED PRIOR TO THE COMPLETION OF THE PROJECT (POINTS 16837, 16809 AND 16836 MAY BE MONUMENTED WITH SURVEY NAILS.)

RIGHT-OF-WAY BOUNDARIES ARE DEFINED WITH COURSES OF THE PERIMETER OF THE HIGHWAY LANDS REFERENCED TO THE U.S. PUBLIC LAND SURVEY OR OTHER SURVEYS OF RECORD.

PROPERTY LINES SHOWN ON THIS PLAT ARE DRAWN FROM DATA DERIVED FROM MAPS AND DOCUMENTS OF PUBLIC RECORD AND/OR EXISTING OCCUPATIONAL LINES. THIS PLAT MAY NOT BE A TRUE REPRESENTATION OF EXISTING PROPERTY LINES, EXCLUDING RIGHT-OF-WAY LINES, AND SHOULD NOT BE USED AS A SUBSTITUTE FOR AN ACCURATE FIELD SURVEY.

EXISTING HIGHWAY RIGHT OF WAY AND ACCESS CONTROL FOR STH 181 (N. 76TH ST.) ESTABLISHED FROM PREVIOUS PROJECT I.D. T 0352(10), FROM C.S.M. NO.'S 1819, 7548 AND 1820, AND FROM THE CITY OF MILWAUKEE 1/4 SECTION TAX MAPS.

DIMENSIONING FOR THE NEW R/W IS MEASURED ALONG AND PERPENDICULAR TO NEW REFERENCE LINES.

DIMENSIONS FROM BUILDINGS TO R/W LINES AS SHOWN ARE APPROXIMATE ONLY.

A **TEMPORARY LIMITED EASEMENT (TLE)** FOR GRADING SLOPES AND FOR PAVEMENT REPAIR IS A RIGHT FOR CONSTRUCTION PURPOSES, AS DEFINED HEREIN, INCLUDING THE RIGHT TO OPERATE THE NECESSARY EQUIPMENT THEREON, AND THE RIGHT OF INGRESS AND EGRESS AS REQUIRED FOR SUCH PUBLIC PURPOSE, INCLUDING THE RIGHT TO PRESERVE, PROTECT, REMOVE, OR PLANT THEREON ANY VEGETATION THAT THE HIGHWAY AUTHORITIES MAY DEEM NECESSARY OR DESIRABLE. ALL TLE'S ARE TO TERMINATE ON DECEMBER 31, 2012 OR THE DATE THE CONSTRUCTION OF THE PROJECT IS COMPLETED, WHICHEVER OCCURS FIRST.

A **PERMANENT LIMITED EASEMENT (PLE)** IS A RIGHT FOR INSTALLING AND MAINTAINING TRAFFIC SIGNAL EQUIPMENT, RELATED CABLING, AND APPURTENANCES, AS DEFINED HEREIN, INCLUDING THE RIGHT TO OPERATE THE NECESSARY EQUIPMENT THEREON, AND THE RIGHT OF INGRESS AND EGRESS AS REQUIRED FOR SUCH PUBLIC PURPOSE. BUT WITHOUT PREJUDICE TO THE OWNER'S RIGHT TO PLANT AND MAINTAIN VEGETATION, MAINTAIN ROAD FACILITIES, MAKE OR CONSTRUCT IMPROVEMENTS ON SAID LANDS OR TO FLATTEN THE SLOPES, PROVIDING SAID ACTIVITIES WOULD NOT IMPAIR OR OTHERWISE ADVERSELY AFFECT THE HIGHWAY FACILITIES.

EXISTING ACCESS EASEMENT TO CITY OF MILWAUKEE OVER PARCEL 2, C.S.M. 7548 FOR FIRE PROTECTION PER DOC. NO. 08868583.

OWNER'S NAMES ARE SHOWN FOR REFERENCE PURPOSES ONLY AND ARE SUBJECT TO CHANGE PRIOR TO THE TRANSFER OF LAND INTERESTS TO THE DEPARTMENT.

P.L.E. COORDINATES

16805, Y =	351954.0320, X =	580614.0990
16806, Y =	351971.3642, X =	580598.0104
16807, Y =	351977.6277, X =	580585.1353
16808, Y =	351984.1152, X =	580561.2625
16838, Y =	352114.8090, X =	580573.4920
16813, Y =	352127.3860, X =	580617.9750
16836, Y =	352047.2450, X =	580572.1160
16837, Y =	352047.4390, X =	580562.5520
16809, Y =	351994.8150, X =	580561.4800

I HEREBY CERTIFY THAT THIS PLAT MEETS ALL REQUIREMENTS OF SECTION 84.095, WISCONSIN STATUTES. THIS PLAT IS APPROVED FOR THE WISCONSIN DEPARTMENT OF TRANSPORTATION.

DATE: _____
Jennifer Queram
Wisconsin Department of Transportation
North Central Region, Wisconsin Rapids
Real Estate Supervisor

I, TERRANCE L. GENSKE, REGISTERED LAND SURVEYOR, HEREBY CERTIFY THAT IN FULL COMPLIANCE WITH THE PROVISIONS OF SECTION 84.095 OF THE WISCONSIN STATUTES AND UNDER THE DIRECTION OF THE DEPARTMENT, I HAVE SURVEYED AND MAPPED TRANSPORTATION PROJECT PLAT 2140-08-22-4.13 AMENDMENT NO. 1 AND THAT SUCH PLAT CORRECTLY REPRESENTS ALL EXTERIOR BOUNDARIES OF THE SURVEYED LAND.

DATE: _____ (SIGNATURE) _____
Terrance L. Genske
Agent for Strand Associates, Inc.
R.L.S. NUMBER 1443

RESERVED FOR REGISTER OF DEEDS
PROJECT NUMBER 2140 - 08 - 22 - 4.13
AMENDMENT NO. 1

ACCEPTED FOR RECORDING AND FILING IN THE OFFICE OF THE REGISTER OF DEEDS IN _____ COUNTY, WISCONSIN AT ..:.. .M ON _____ AS DOCUMENT #_____ AND FILED IN _____

_____
SIGNATURE OF REGISTER OF DEEDS

STRAND ASSOCIATES, INC®
ENGINEERS
910 WEST WINGRA DRIVE
MADISON, WISCONSIN 53715
(608) 251-4843

SCHEDULE OF LANDS & INTERESTS REQUIRED

AREAS SHOWN IN THE TOTAL ACRES COLUMN MAY BE APPROXIMATE AND ARE DERIVED FROM TAX ROLLS OR OTHER AVAILABLE SOURCES AND MAY NOT INCLUDE LANDS OF THE OWNER WHICH ARE NOT CONTIGUOUS TO THE AREA TO BE ACQUIRED.

PARCEL NUMBER	OWNER (S)	INTEREST REQUIRED	R/W S.F. REQUIRED NEW	EXISTING	TOTAL	P.L.E. .S.F	T.L.E. .S.F
401	SPEEDWAY SUPERAMERICA LLC	PLE, TLE	---	---	---	493	218
302	TDC MILWAUKEE, L.L.C.	PLE	---	---	---	3,486	---
403	WINDMILL HILL, L.C.	PLE, TLE	---	---	---	403	1,928
57	WE ENERGIES - ELECTRIC	RELEASE OF RIGHTS					
56	WE ENERGIES - GAS	RELEASE OF RIGHTS					

NOTE: IP COORDINATES SHOWN ARE FROM DESIGN TOPO SURVEY AND FOR INFORMATIONAL PURPOSES ONLY.

5875	Y = 353,005.56	X = 580,756.17	1" I.P.
9206	Y = 352,770.50	X = 580,617.90	1" I.P.
9199	Y = 352,693.36	X = 580,616.40	CHIS "X"
10040	Y = 352,774.03	X = 580,631.01	1" I.P.
10047	Y = 352,689.35	X = 580,629.33	CHIS "X"
17334	Y = 352,787.91	X = 580,764.10	1" I.P.
19021	Y = 353,191.40	X = 580,639.60	1" I.P.

P.L.E. COORDINATES

16850	Y = 352,741.449	X = 580,601.694
16815	Y = 352,773.942	X = 580,602.356
16851	Y = 352,741.978	X = 580,575.699
16817	Y = 352,684.818	X = 580,607.542
16818	Y = 352,661.380	X = 580,628.802
16823	Y = 352,796.354	X = 580,631.472
16819	Y = 352,694.228	X = 580,574.727
16849	Y = 352,693.709	X = 580,599.721
16848	Y = 352,684.981	X = 580,599.543

STATION/OFFSETS

16848 256+88.50 90.00' LT
16849 256+97.23 90.00' LT
16819 256+97.24 115.00' LT

COURSE TABLE

16850-16851 N 88°49'59" W 26.00'
16819-16849 S 88°48'31" E 25.00'
16849-16848 S 01°10'01" W 8.73'
16848-16817 S 88°49'59" E 8.00'
16819-16816 S 01°10'01" W 8.74'

TRANSPORTATION PROJECT PLAT NO. 2140-08-22-4.14 - AMENDMENT NO. 1 AMENDS PARCEL NO.S 401, 302 & 403 OF TRANSPORTATION PROJECT PLAT 2140-08-22-4.14, RECORDED AS DOCUMENT NO. 09442422

NORTH 76TH STREET, WEST CALUMET ROAD TO WEST COUNTY LINE ROAD

THAT PART OF PARCEL 3 OF CSM 2036, PARCEL 2 OF CSM 7548 AND PARCEL 2 OF CSM 2216, IN THE NE¼- SE¼ OF SEC. 4, T 8 N, R 21 E, CITY OF MILWAUKEE, MILWAUKEE COUNTY, WISCONSIN.

RELOCATION ORDER STH 181
CITY OF MILWAUKEE, MILWAUKEE COUNTY

TO PROPERLY ESTABLISH, LAY OUT, WIDEN, ENLARGE, EXTEND, CONSTRUCT, RECONSTRUCT, IMPROVE, OR MAINTAIN A PORTION OF THE HIGHWAY DESIGNATED ABOVE, THE STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION DEEMS IT NECESSARY TO RELOCATE OR CHANGE SAID HIGHWAY AND ACQUIRE CERTAIN LANDS AND INTERESTS OR RIGHTS IN LANDS FOR THE ABOVE PROJECT.

TO EFFECT THIS CHANGE, PURSUANT TO AUTHORITY GRANTED UNDER SECTION 84.02 (3) AND 84.09, WISCONSIN STATUTES, THE DEPARTMENT OF TRANSPORTATION HEREBY ORDERS THAT:

1. THAT PORTION OF SAID HIGHWAY AS SHOWN ON THIS PLAT IS LAID OUT AND ESTABLISHED TO THE LINES AND WIDTHS AS SO SHOWN FOR THE ABOVE PROJECT.
2. THE LANDS OR INTERESTS OR RIGHTS IN LANDS AS SHOWN ON THIS PLAT ARE REQUIRED BY THE DEPARTMENT FOR THE ABOVE PROJECT AND SHALL BE ACQUIRED IN THE NAME OF THE STATE OF WISCONSIN, PURSUANT TO THE PROVISIONS OF SECTION 84.09 (1) OR (2), WISCONSIN STATUTES.

CONVENTIONAL SIGNS AND ABBREVIATIONS

TELEPHONE PEDESTAL T.P.
TELEVISION PEDESTAL C.P.
ELECTRIC PEDESTAL E.P.
PROPERTY LINE P.L.
IRON PIPE I.P.
SECTION LINE
QUARTER LINE
SIXTEENTH LINE
NEW REFERENCE LINE
NEW R/W LINE
EXISTING R/W LINE
PROPERTY LINE
LOT, TIE AND OTHER MINOR LINES
SLOPE INTERCEPTS
UNDERGROUND FACILITY (COMMUNICATIONS, ELECTRIC, ETC.)
FENCE

T.L.E. PATTERNING
H.E., P.L.E., OR R.D.E. PATTERNING
TRANSMISSION STRUCTURES (LINE OPTIONAL)
PEDESTAL (ELECTRIC, COMMUNICATIONS, ETC.)
PREVIOUS ACCESS CONTROL
CERTIFIED SURVEY MAP C.S.M.
CENTRAL ANGLE OR DELTA Δ
VOLUME. VOL.
PAGE. P.
SQUARE FEET S. F.

SECTION CORNER
NOTATION FOR COMBUSTABLE FLUIDS
NOTATION FOR HIGH VOLTAGE TRANSMISSION LINES
CULVERT (BOX, PIPE OR CATTLE PASS)
FOUNDATION OR RUIN
BUILDING

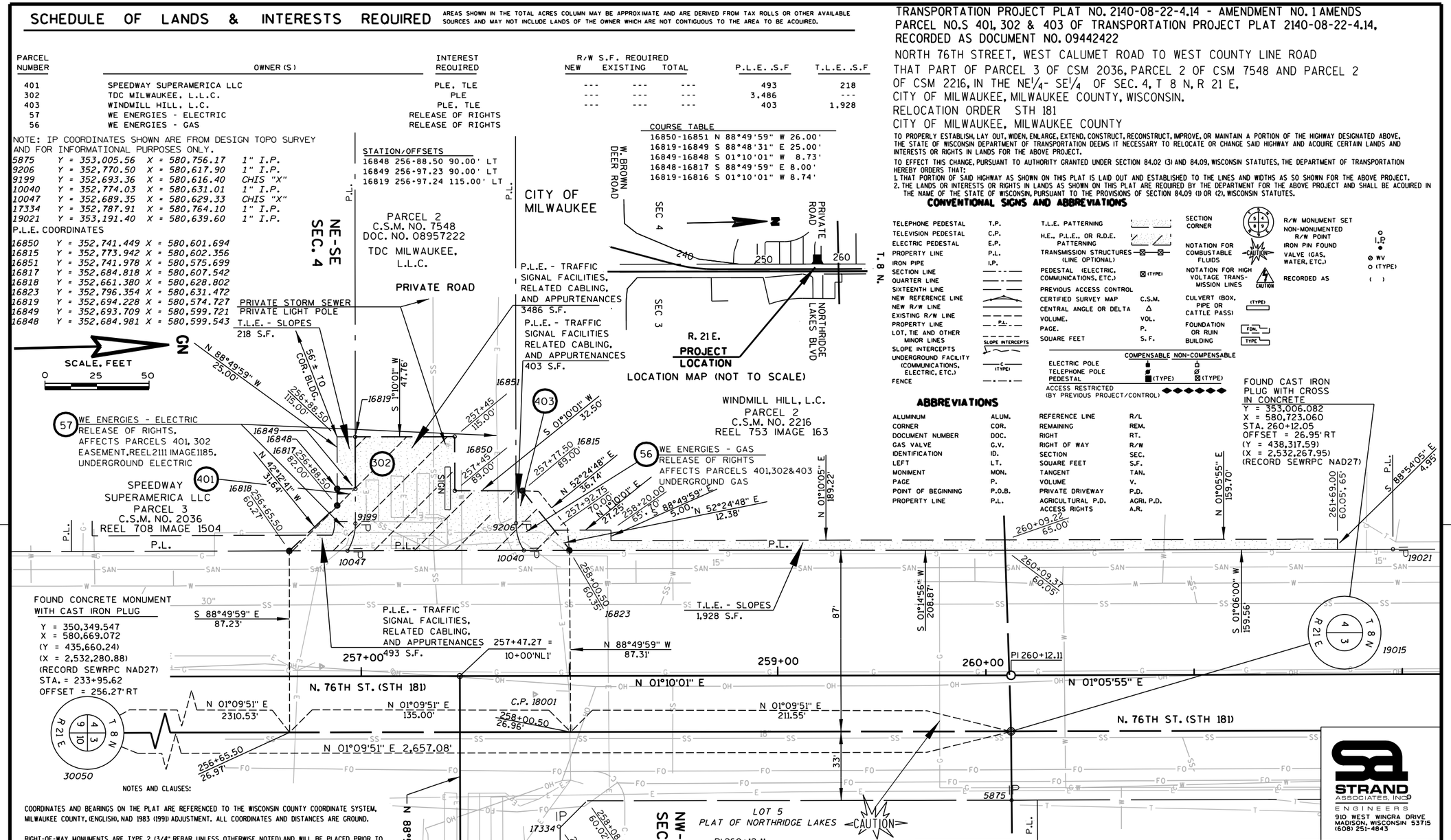
R/W MONUMENT SET
NON-MONUMENTED R/W POINT
IRON PIN FOUND I.P.
VALVE (GAS, WATER, ETC.)
RECORDED AS ( )

	COMPENSABLE	NON-COMPENSABLE
ELECTRIC POLE		
TELEPHONE POLE		
PEDESTAL	(TYPE)	(TYPE)

ACCESS RESTRICTED (BY PREVIOUS PROJECT/CONTROL)

ABBREVIATIONS

ALUMINUM	ALUM.	REFERENCE LINE	R/L
CORNER	COR.	REMAINING	REM.
DOCUMENT NUMBER	DOC.	RIGHT	RT.
GAS VALVE	G.V.	RIGHT OF WAY	R/W
IDENTIFICATION	ID.	SECTION	SEC.
LEFT	LT.	SQUARE FEET	S.F.
MONIMENT	MON.	TANGENT	TAN.
PAGE	P.	VOLUME	V.
POINT OF BEGINNING	P.O.B.	PRIVATE DRIVEWAY	P.D.
PROPERTY LINE	P.L.	AGRICULTURAL P.D. ACCESS RIGHTS	AGRI. P.D. A.R.



NOTES AND CLAUSES:

COORDINATES AND BEARINGS ON THE PLAT ARE REFERENCED TO THE WISCONSIN COUNTY COORDINATE SYSTEM, MILWAUKEE COUNTY, (ENGLISH), NAD 1983 (1991) ADJUSTMENT. ALL COORDINATES AND DISTANCES ARE GROUND.

RIGHT-OF-WAY MONUMENTS ARE TYPE 2 (3/4" REBAR UNLESS OTHERWISE NOTED) AND WILL BE PLACED PRIOR TO THE COMPLETION OF THE PROJECT (POINTS 16850, 16851, 16849 AND 16819 MAY USE ALTERNATE MONUMENTATION)

RIGHT-OF-WAY BOUNDARIES ARE DEFINED WITH COURSES OF THE PERIMETER OF THE HIGHWAY LANDS REFERENCED TO THE U.S. PUBLIC LAND SURVEY OR OTHER SURVEYS OF RECORD.

PROPERTY LINES SHOWN ON THIS PLAT ARE DRAWN FROM DATA DERIVED FROM MAPS AND DOCUMENTS OF PUBLIC RECORD AND/OR EXISTING OCCUPATIONAL LINES. THIS PLAT MAY NOT BE A TRUE REPRESENTATION OF EXISTING PROPERTY LINES, EXCLUDING RIGHT-OF-WAY LINES, AND SHOULD NOT BE USED AS A SUBSTITUTE FOR AN ACCURATE FIELD SURVEY.

EXISTING HIGHWAY RIGHT OF WAY AND ACCESS CONTROL FOR STH 181 (N. 76TH ST.) ESTABLISHED FROM PREVIOUS PROJECT I.D. T 0352(10) AND CERTIFIED SURVEY MAP NO.'S 2036, 2216 AND 7548, AND CITY OF MILWAUKEE ¼ SECTION TAX MAPS.

DIMENSIONING FROM BUILDINGS TO R/W LINES AS SHOWN ARE APPROXIMATE ONLY

DIMENSIONING FOR THE NEW R/W IS MEASURED ALONG AND PERPENDICULAR TO NEW REFERENCE LINES.
OWNER'S NAMES ARE SHOWN FOR REFERENCE PURPOSES ONLY AND ARE SUBJECT TO CHANGE PRIOR TO THE TRANSFER OF LAND INTERESTS TO THE DEPARTMENT.

CLAUSES

A **TEMPORARY LIMITED EASEMENT (TLE)** FOR GRADING SLOPES AND FOR PAVEMENT REPAIR IS A RIGHT FOR CONSTRUCTION PURPOSES, AS DEFINED HEREIN, INCLUDING THE RIGHT TO OPERATE THE NECESSARY EQUIPMENT THEREON, AND THE RIGHT OF INGRESS AND EGRESS AS REQUIRED FOR SUCH PUBLIC PURPOSE, INCLUDING THE RIGHT TO PRESERVE, PROTECT, REMOVE, OR PLANT THEREON ANY VEGETATION THAT THE HIGHWAY AUTHORITIES MAY DEEM NECESSARY OR DESIRABLE. ALL TLE'S ARE TO TERMINATE ON DECEMBER 31, 2012 OR THE DATE THE CONSTRUCTION OF THE PROJECT IS COMPLETED, WHICHEVER OCCURS FIRST.

A **PERMANENT LIMITED EASEMENT (PLE)** IS A RIGHT FOR INSTALLING AND MAINTAINING TRAFFIC SIGNAL EQUIPMENT, RELATED CABLING, AND APPURTENANCES, AS DEFINED HEREIN, INCLUDING THE RIGHT TO OPERATE THE NECESSARY EQUIPMENT THEREON, AND THE RIGHT OF INGRESS AND EGRESS AS REQUIRED FOR SUCH PUBLIC PURPOSE, BUT WITHOUT PREJUDICE TO THE OWNER'S RIGHT TO PLANT AND MAINTAIN VEGETATION, MAINTAIN ROAD FACILITIES, MAKE OR CONSTRUCT IMPROVEMENTS ON SAID LANDS OR TO FLATTEN THE SLOPES, PROVIDING SAID ACTIVITIES WOULD NOT IMPAIR OR OTHERWISE ADVERSELY AFFECT THE HIGHWAY FACILITIES.

I HEREBY CERTIFY THAT THIS PLAT MEETS ALL REQUIREMENTS OF SECTION 84.095, WISCONSIN STATUTES. THIS PLAT IS APPROVED FOR THE WISCONSIN DEPARTMENT OF TRANSPORTATION.

DATE:----------

Jennifer Queram
Wisconsin Department of Transportation
North Central Region, Wisconsin Rapids
Real Estate Supervisor

I, TERRANCE L. GENSKE, REGISTERED LAND SURVEYOR, HEREBY CERTIFY THAT IN FULL COMPLIANCE WITH THE PROVISIONS OF SECTION 84.095 OF THE WISCONSIN STATUTES AND UNDER THE DIRECTION OF THE DEPARTMENT, I HAVE SURVEYED AND MAPPED TRANSPORTATION PROJECT PLAT 2140-08-22-4.14 AMENDMENT NO. 1 AND THAT SUCH PLAT CORRECTLY REPRESENTS ALL EXTERIOR BOUNDARIES OF THE SURVEYED LAND.

DATE: ---------- (SIGNATURE) ----------

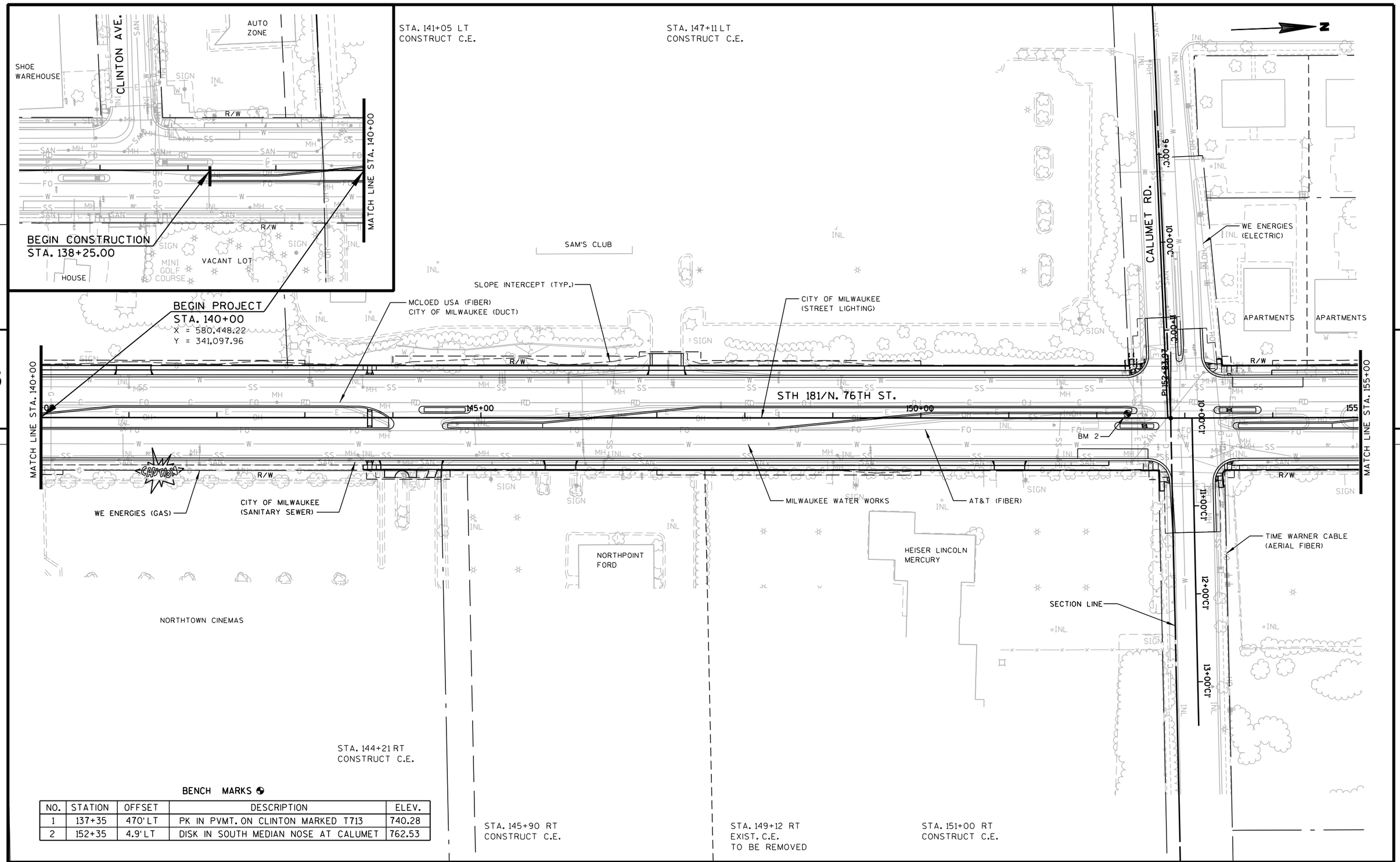
Terrance L. Genske
Agent for Strand Associates, Inc.
R.L.S. NUMBER 1443

RESERVED FOR REGISTER OF DEEDS
PROJECT NUMBER 2140 - 08 - 22 - 4.14
AMENDMENT NO. 1

ACCEPTED FOR RECORDING AND FILING IN THE OFFICE OF THE REGISTER OF DEEDS IN ---------- COUNTY, WISCONSIN AT --:-- .M ON ---------- AS DOCUMENT #---------- AND FILED IN ----------

----
SIGNATURE OF REGISTER OF DEEDS

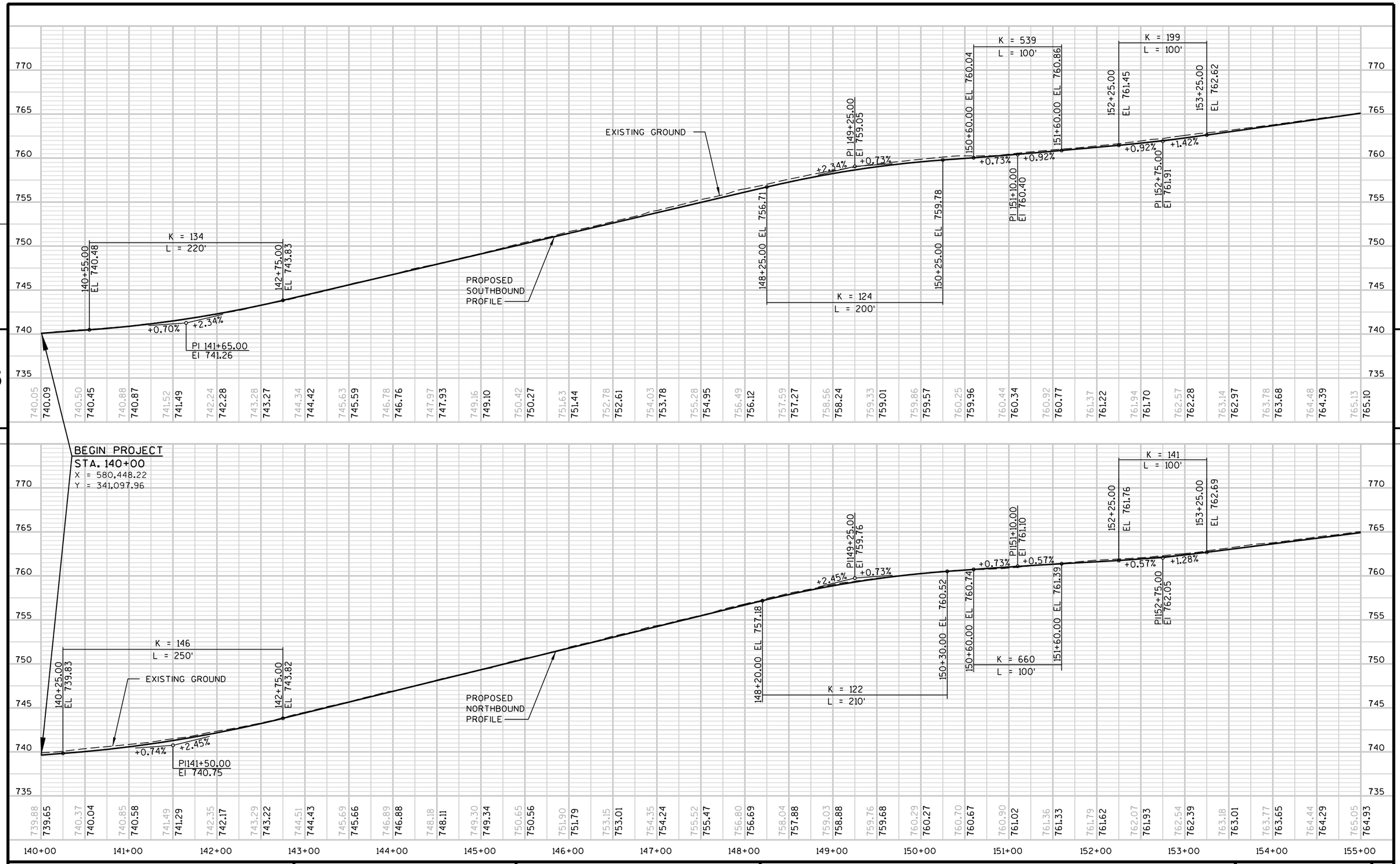
STRAND ASSOCIATES, INC.®
ENGINEERS
910 WEST WINGRA DRIVE
MADISON, WISCONSIN 53715
(608) 251-4843



BENCH MARKS

NO.	STATION	OFFSET	DESCRIPTION	ELEV.
1	137+35	470'LT	PK IN PVMT. ON CLINTON MARKED T713	740.28
2	152+35	4.9'LT	DISK IN SOUTH MEDIAN NOSE AT CALUMET	762.53

PROJECT NO: 2140-08-73	HWY: STH 181	COUNTY: MILWAUKEE	PLAN - MAINLINE	SHEET 681	E



PROJECT NO: 2140-08-73	HWY: STH 181	COUNTY: MILWAUKEE	PROFILE - MAINLINE	SHEET 682 E

STA. 155+89 LT
CONSTRUCT P.E.

STA. 157+61 LT
CONSTRUCT C.E.

STA. 158+64 LT
CONSTRUCT P.E.

STA. 160+69 LT
CONSTRUCT C.E.

STA. 162+13 LT
CONSTRUCT C.E.

STA. 164+60 LT
CONSTRUCT C.E.

STA. 166+24 LT
CONSTRUCT P.E.

APARTMENTS

APARTMENTS

SEEK CAREERS
STAFFING

HOUSE

MINOR'S GARDEN CENTER

CANOPY

HOUSE

HOUSE

HOUSE

WE ENERGIES
(GAS)

MILWAUKEE
WATER WORKS

MCLOED USA (FIBER)
CITY OF MILWAUKEE (DUCT)

WE ENERGIES
(ELECTRIC)

CITY OF MILWAUKEE
(SANITARY SEWER)

FRONTAGE ROAD

MATCH LINE STA. 155+00

MATCH LINE STA. 170+00

STH 181/N. 76TH ST.

160+00

165+00

R/W

R/W

SLOPE INTERCEPT (TYP.)

RUSS DARROW CHRYSLER
JEEP DARROW

J.D. BYRIDER

AT&T (FIBER)

CITY OF MILWAUKEE
(STREET LIGHTING)

REMOVING BOLLARDS RED'O
(STA. 166+14 - STA. 167+60)

HEISER TOYOTA

STA. 160+65 RT
CONSTRUCT C.E.

STA. 164+51 RT
CONSTRUCT C.E.

STA. 167+74 RT
CONSTRUCT C.E.

N

5

5

770

765

760

755

PI 156+70.00
EL 767.51

+1.42%

-1.35%

155+00.00
EL 765.10

K = 123
L = 340'

158+40.00
EL 765.21

K = 82
L = 160'

159+30.00
EL 763.99

160+90.00
EL 763.39

-1.35%

+0.59%

PI 160+10.00
EL 762.91

PI 162+05.00
EL 764.07

+0.59%

-0.31%

161+35.00
EL 763.65

K = 156
L = 140'

162+75.00
EL 763.86

EXISTING GROUND

PROPOSED
SOUTHBOUND
PROFILE

165+65.00
EL 762.97

K = 100
L = 150'

167+15.00
EL 763.64

-0.31%

+1.19%

PI 166+40.00
EL 762.74

169+30.00
EL 766.20

K = 128
L = 100'

PI 169+80.00
EL 766.80

+1.19%

765.13 765.10 | 765.66 765.71 | 766.48 766.11 | 766.76 766.31 | 766.56 766.31 | 766.11 766.10 | 765.60 765.69 | 765.03 765.07 | 764.47 764.40 | 763.85 763.75 | 763.53 763.34 | 763.56 763.25 | 763.49 763.45 | 763.52 763.74 | 763.57 763.90 | 763.58 763.91 | 763.58 763.78 | 763.58 763.63 | 763.61 763.47 | 763.41 763.32 | 763.43 763.17 | 763.45 763.02 | 763.38 762.92 | 763.51 763.07 | 763.68 763.47 | 764.00 764.05 | 764.67 764.65 | 765.45 765.25 | 765.92 765.85 | 766.32 766.43 | 766.64 766.85

PI 156+70.00
EL 767.11

+1.28%

-1.24%

155+15.00
EL 765.12

K = 123
L = 310'

158+25.00
EL 765.20

K = 82
L = 150'

159+35.00
EL 763.84

160+85.00
EL 763.36

-1.24%

+0.59%

PI 160+10.00
EL 762.91

PI 162+05.00
EL 764.07

+0.59%

-0.31%

161+35.00
EL 763.65

K = 156
L = 140'

162+75.00
EL 763.86

EXISTING GROUND

PROPOSED
NORTHBOUND
PROFILE

165+65.00
EL 762.97

K = 100
L = 150'

167+15.00
EL 763.64

-0.31%

+1.19%

PI 166+40.00
EL 762.74

169+30.00
EL 766.20

K = 128
L = 100'

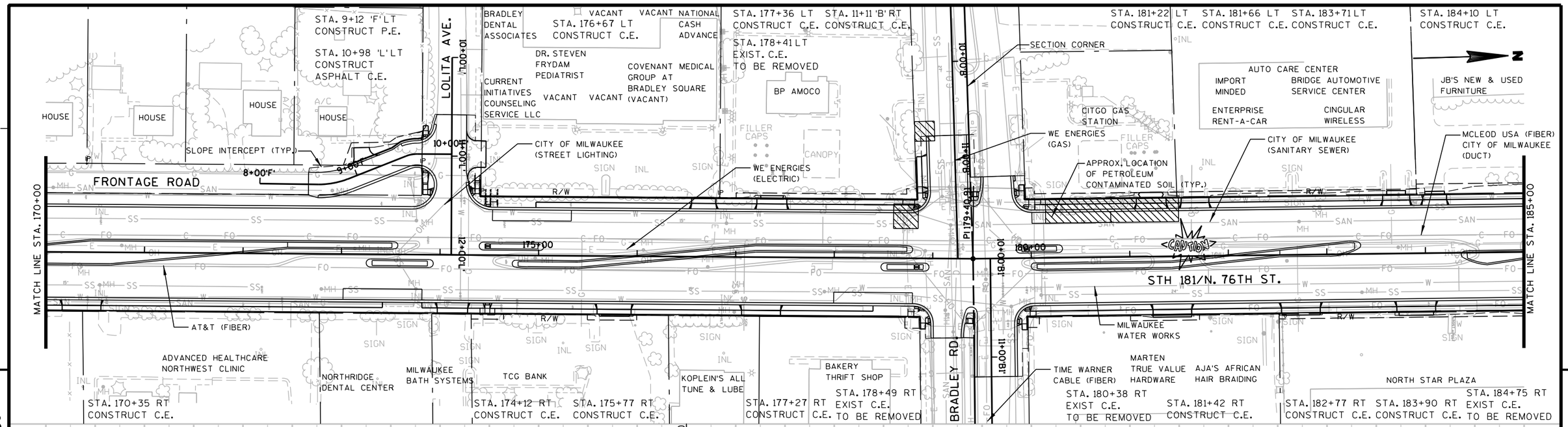
PI 169+80.00
EL 766.80

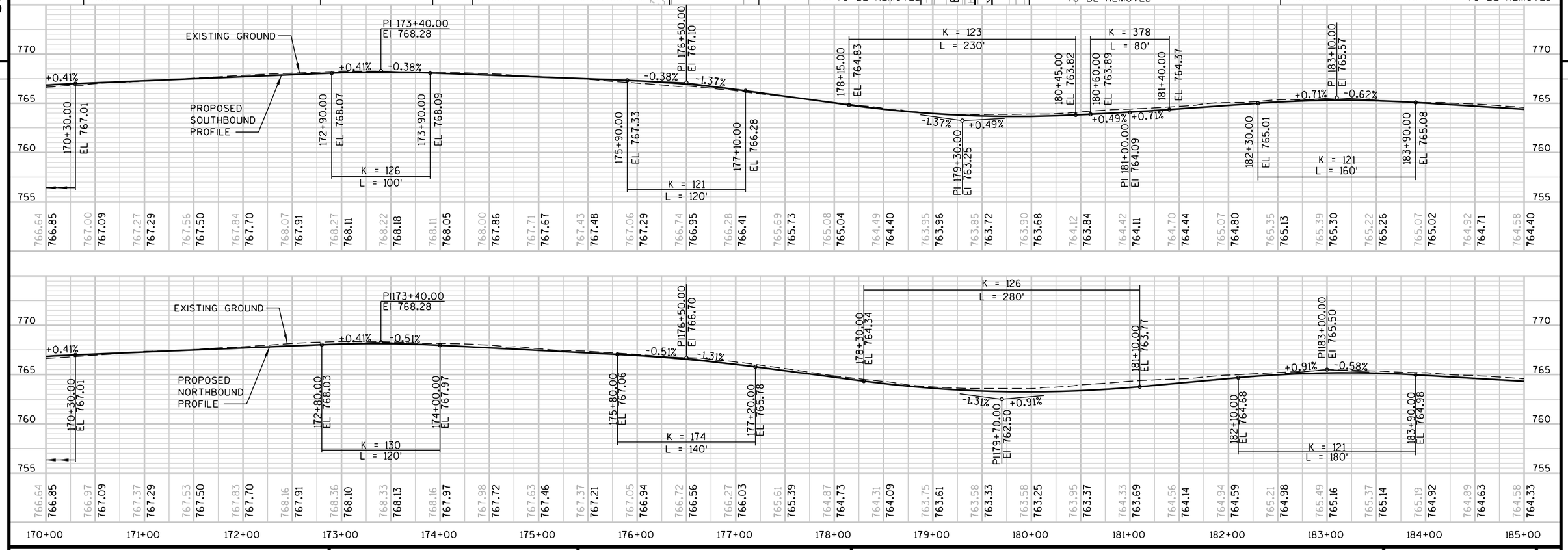
+1.19%

765.05 764.93 | 765.73 765.52 | 766.54 765.92 | 766.69 766.11 | 766.55 766.11 | 766.21 765.89 | 765.65 765.48 | 765.00 764.89 | 764.32 764.27 | 763.85 763.66 | 763.58 763.29 | 763.47 763.22 | 763.54 763.45 | 763.63 763.74 | 763.65 763.90 | 763.72 763.91 | 763.63 763.78 | 763.74 763.63 | 763.67 763.47 | 763.56 763.32 | 763.62 763.17 | 763.52 763.02 | 763.61 762.92 | 763.75 763.07 | 763.82 763.47 | 764.11 764.05 | 764.72 764.65 | 765.38 765.25 | 765.96 765.85 | 766.32 766.43 | 766.64 766.85

155+00 | 156+00 | 157+00 | 158+00 | 159+00 | 160+00 | 161+00 | 162+00 | 163+00 | 164+00 | 165+00 | 166+00 | 167+00 | 168+00 | 169+00 | 170+00

PROJECT NO: 2140-08-73	HWY: STH 181	COUNTY: MILWAUKEE	PLAN AND PROFILE - MAINLINE	SHEET 683	E





PROJECT NO: 2140-08-73	HWY: STH 181	COUNTY: MILWAUKEE	PLAN AND PROFILE - MAINLINE	SHEET 684 E

STA. 185+76 LT
EXIST. C.E.
TO BE REMOVED

STA. 11+06 'T' LT
CONSTRUCT C.E.

N

WE ENERGIES
(GAS)

ENGINE & TRANSMISSION
EXCHANGE

SPRINT COMMUNICATIONS (FIBER)

JB'S NEW & USED
FURNITURE

TOWER AVE.

10+00 T.

CAUTION

11+00 T.

MCLEOD USA
(FIBER)

CITY OF MILWAUKEE
(STREET LIGHTING)

AMATO
HYUNDAI & MAZDA

AT&T

CITY OF MILWAUKEE
(SANITARY SEWER)

MCLEOD USA (FIBER)
CITY OF MILWAUKEE (DUCT)

R/W

WE ENERGIES
(ELECTRIC)

MATCH LINE STA. 185+00

MATCH LINE STA. 200+00

B-40-380

STH 181/N. 76th ST.

190+00

195+00

B-40-381

MILWAUKEE WATER WORKS

ATC
(TRANSMISSION)
AT&T LOCAL
NETWORK SERVICES

AT&T (FIBER)

SLOPE INTERCEPT (TYP.)

VACANT

NORTHSTAR
PLAZA

VACANT VACANT

DOMINO'S
PIZZA

SUNDEEP
LIQUOR

NORLIGHT TELECOMMUNICATIONS
(FIBER)

WE ENERGIES
(ELECTRIC)
AT&T LOCAL NETWORK SERVICES

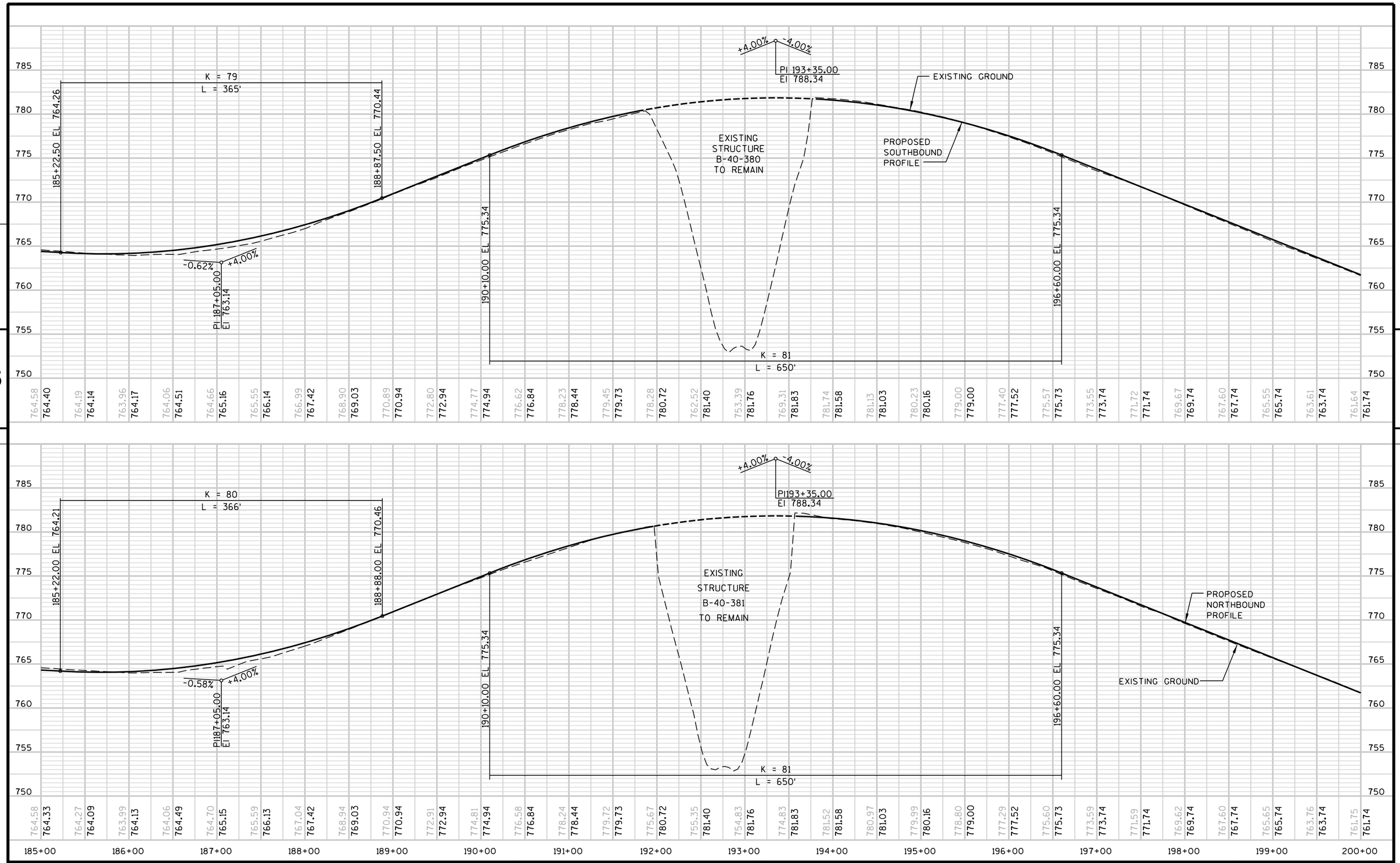
PUBLIC STORAGE

STA. 186+30 RT
CONSTRUCT C.E.

5

5

PROJECT NO: 2140-08-73	HWY: STH 181	COUNTY: MILWAUKEE	PLAN - MAINLINE	SHEET 685	E



PROJECT NO: 2140-08-73	HWY: STH 181	COUNTY: MILWAUKEE	PROFILE - MAINLINE	SHEET 686	E

STA. 202+71 LT
CONSTRUCT C.E.

STA. 11+00 'D' LT
CONSTRUCT C.E.

SECTION LINE

N

AMATO HYUNDAI & MAZDA

MCLEOD USA (FIBER)
CITY OF MILWAUKEE (DUCT)

VACANT

MILWAUKEE
WATER WORKS

BATTERIES
PLUS

SERVITE DR.

TIME WARNER CABLE

APART.

BOLDER
GRAPHICS INC.

SLOPE INTERCEPT (TYP.)

CITY OF MILWAUKEE
(STREET LIGHTING)

MATCH LINE STA. 200+00

STH 181/N. 76TH ST.

R/W

205+00

PI 205+98.75

PC 206+16.58

210+00

PT 212+81.68

MATCH LINE STA. 215+00

AT&T

WE ENERGIES
(ELECTRIC)

AT&T LOCAL
NETWORK SERVICES

DEAN RD.

RUSS DARROW
(VACANT)

TRINITY
VILLAGE

76TH PLACE

CITY OF MILWAUKEE
(SANITARY SEWER)

SECTION LINE

STA. 202+71 RT
CONSTRUCT C.E.

STA. 209+32 RT
CONSTRUCT C.E.

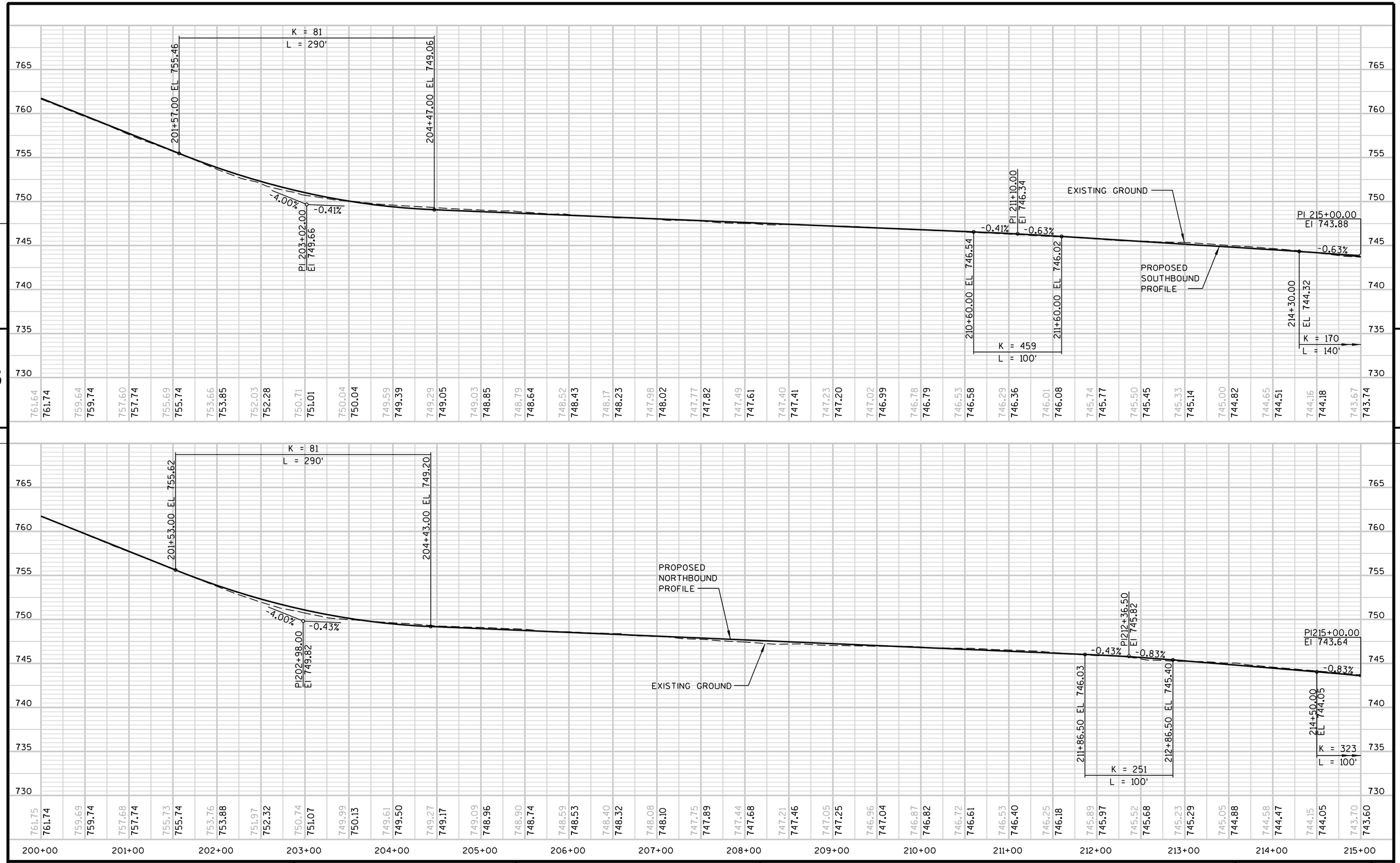
STA. 209+77 RT
CONSTRUCT P.E.

STA. 210+73 RT
CONSTRUCT P.E.

STA. 211+62 RT
CONSTRUCT P.E.

PROJECT NO: 2140-08-73	HWY: STH 181	COUNTY: MILWAUKEE	PLAN - MAINLINE	SHEET 687 E

FILE NAME : s:\@sai\051--100\089\099\micros\design\0873\050107_pp.dgn PLOT DATE : 7/31/2007 PLOT BY : $$...plotuser...$$ PLOT NAME : PLOT SCALE : $$.....plotscale.....$$ WISDOT/CADDS SHEET 40



PROJECT NO: 2140-08-73	HWY: STH 181	COUNTY: MILWAUKEE	PROFILE - MAINLINE	SHEET 688	E

N

R/W

SLOPE INTERCEPT (TYP.)

MCLEOD USA (FIBER)
CITY OF MILWAUKEE (DUCT)

APART.

220+00'SW'

225+00'SW'

230+00'SW'

MILWAUKEE
WATER WORKS

220+00

225+00

STH 181/N. 76TH ST.

220+00'SE'

225+00'SE'

MATCH LINE STA. 215+00

PC 217+15.37

MATCH LINE STA. 230+00

CITY OF MILWAUKEE
(STREET LIGHTING)

R/W

ENDOMETRIOSIS
ASSOCIATION

ST. CATHERINE
CATHOLIC CHURCH

SECTION LINE

WE ENERGIES (GAS)

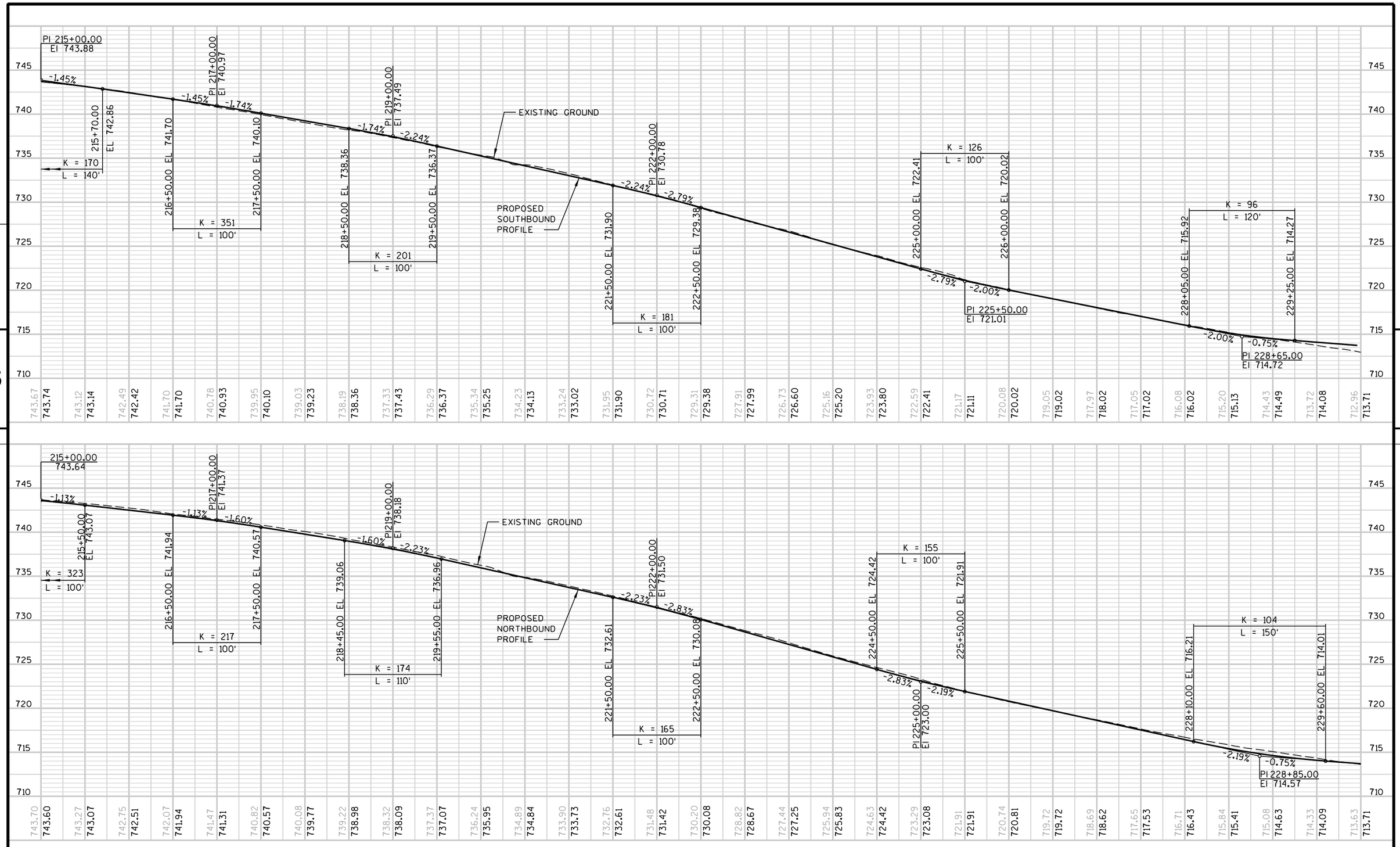
CAUTION

AT&T (FIBER)

5

5

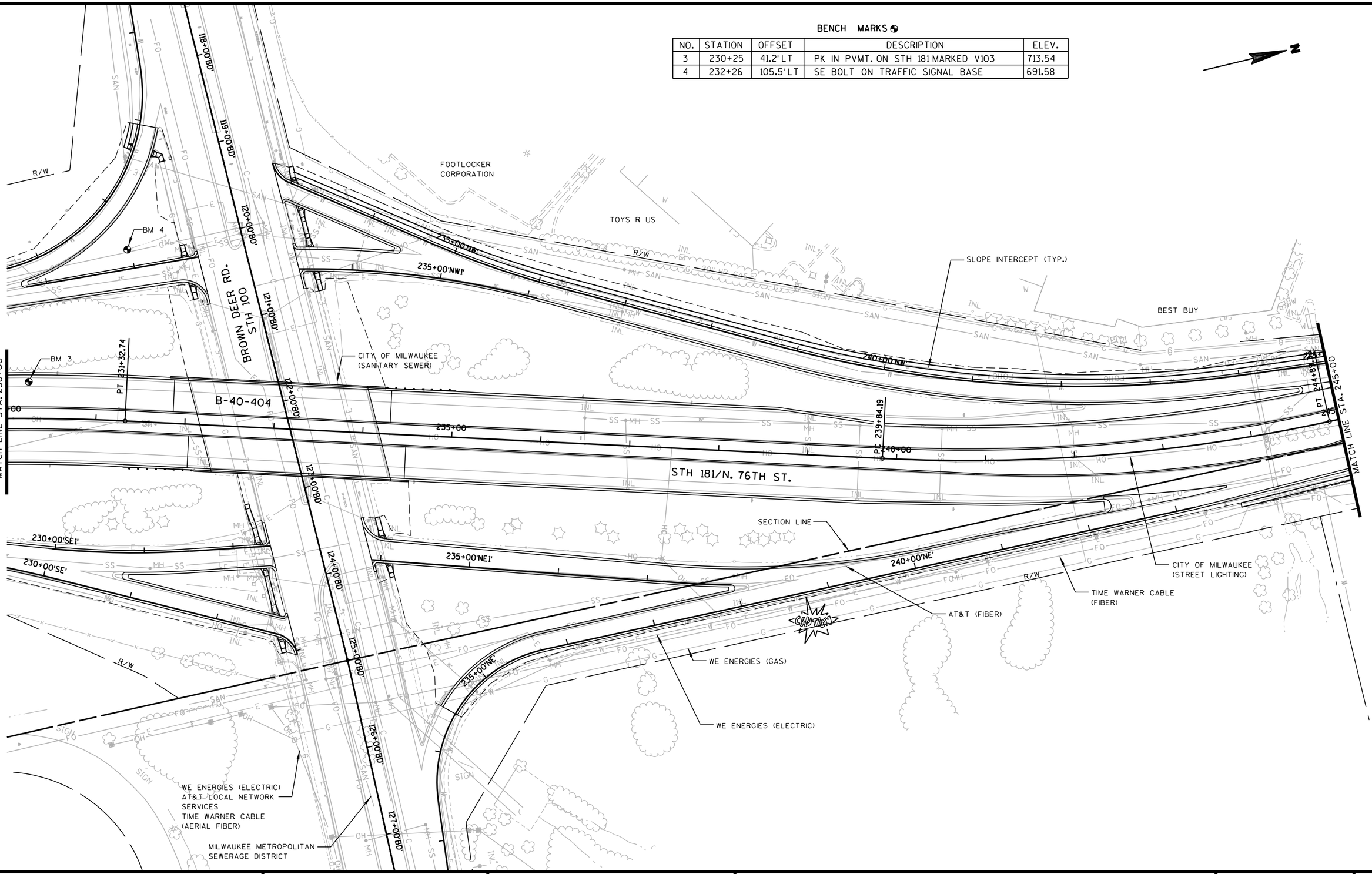
PROJECT NO: 2140-08-73	HWY: STH 181	COUNTY: MILWAUKEE	PLAN - MAINLINE	SHEET 689	E



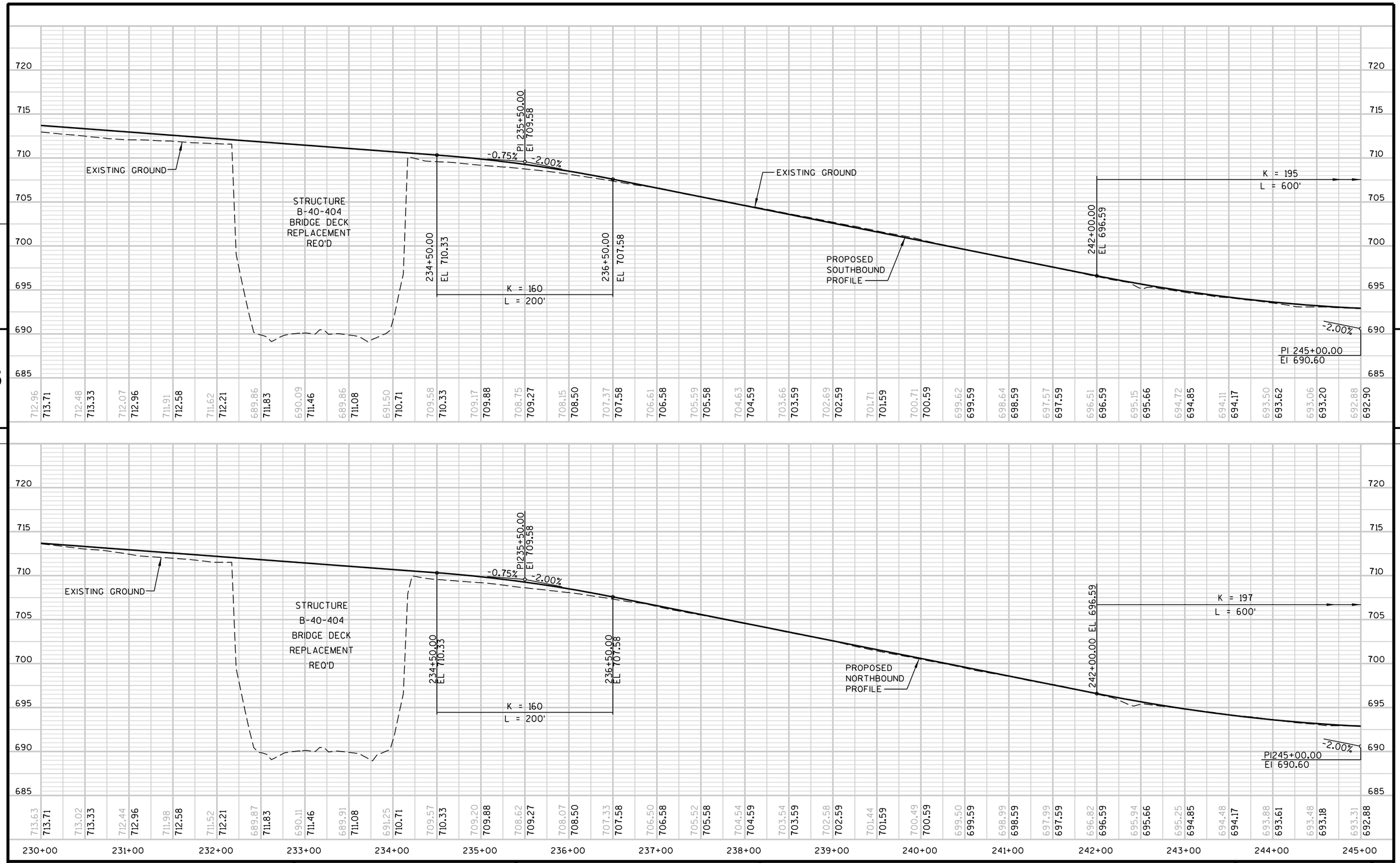
PROJECT NO: 2140-08-73	HWY: STH 181	COUNTY: MILWAUKEE	PROFILE - MAINLINE	SHEET 690	E

BENCH MARKS

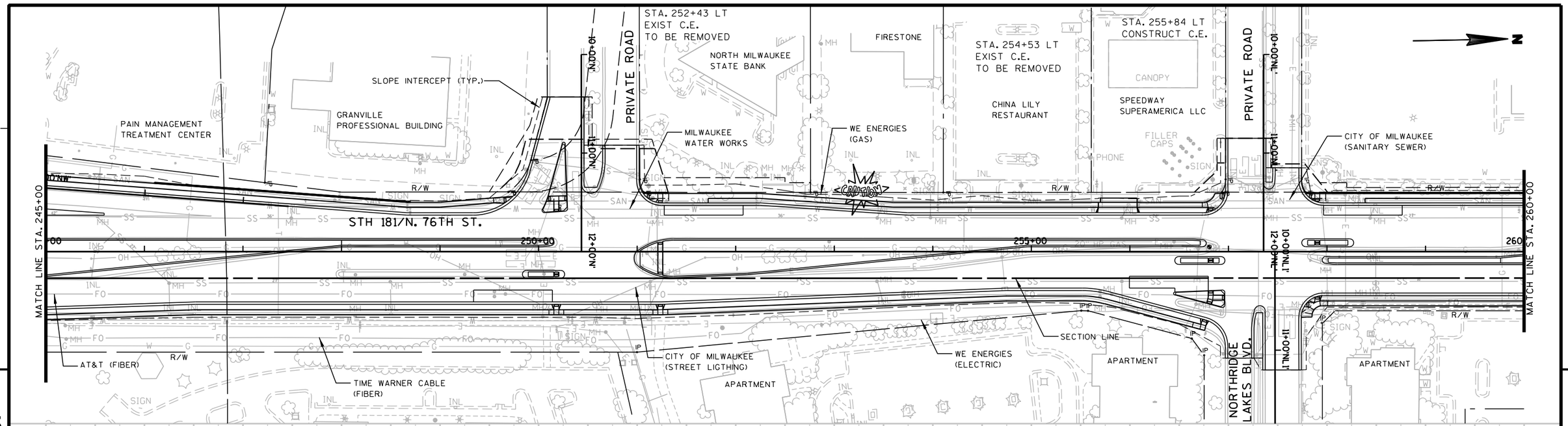
NO.	STATION	OFFSET	DESCRIPTION	ELEV.
3	230+25	41.2' LT	PK IN PVMT. ON STH 181 MARKED V103	713.54
4	232+26	105.5' LT	SE BOLT ON TRAFFIC SIGNAL BASE	691.58

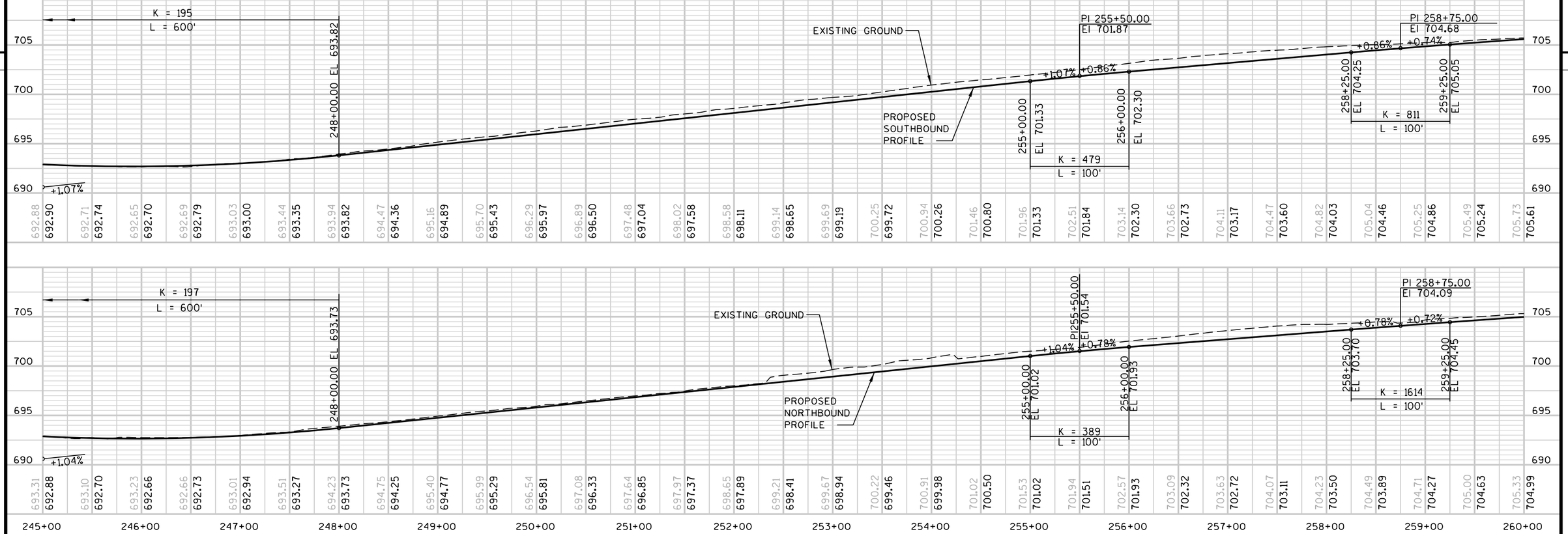


PROJECT NO: 2140-08-73	HWY: STH 181	COUNTY: MILWAUKEE	PLAN - MAINLINE	SHEET 691	E

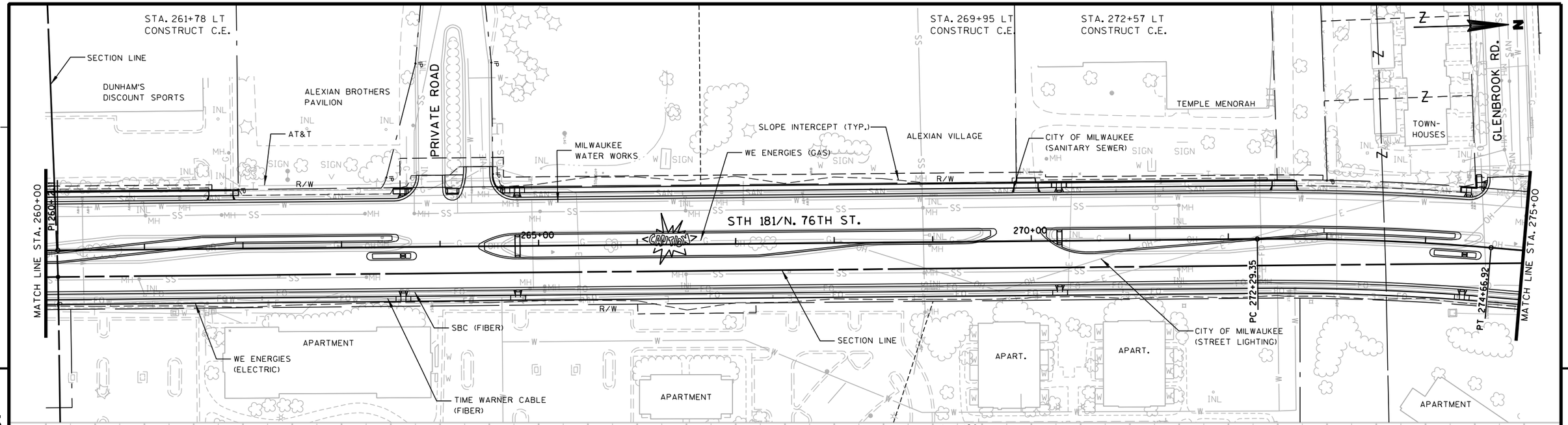


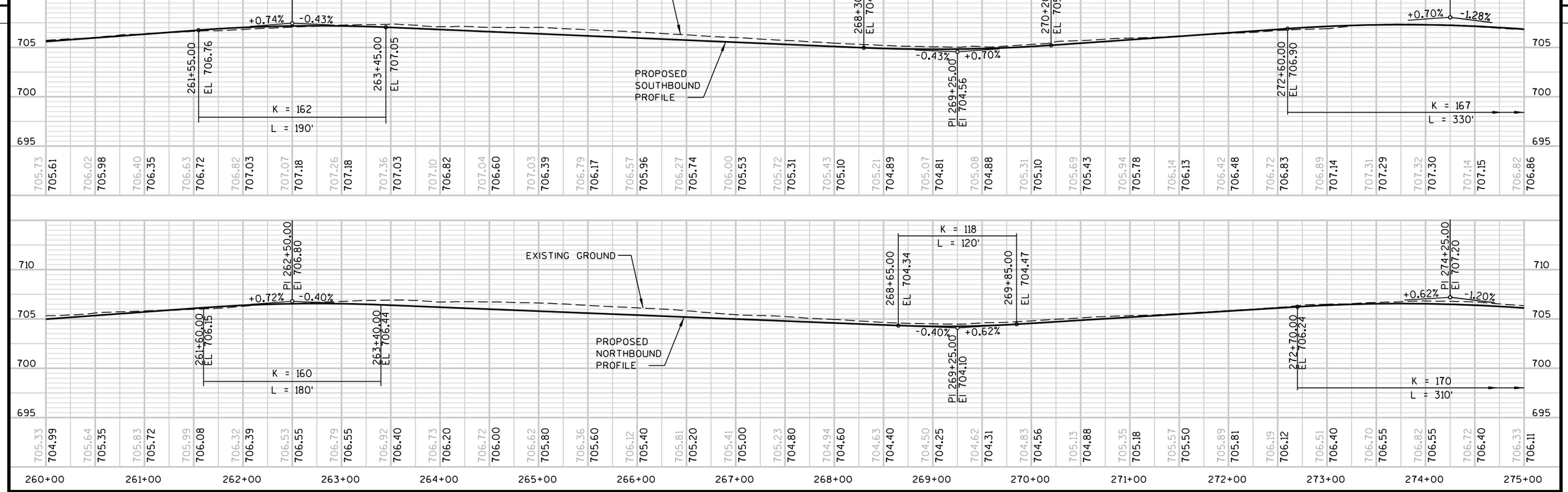
PROJECT NO: 2140-08-73	HWY: STH 181	COUNTY: MILWAUKEE	PROFILE - MAINLINE	SHEET 692	E





PROJECT NO: 2140-08-73	HWY: STH 181	COUNTY: MILWAUKEE	PLAN AND PROFILE - MAINLINE	SHEET 693	E





PROJECT NO: 2140-08-73	HWY: STH 181	COUNTY: MILWAUKEE	PLAN AND PROFILE - MAINLINE	SHEET 694	E

STA. 276+67 LT
CONSTRUCT C.E.

CITY OF MILWAUKEE
(SANITARY SEWER)

SPIRIT LIFE CHURCH

WE ENERGIES
(GAS)

MILWAUKEE
WATER WORKS

CITY OF MILWAUKEE
(STREET LIGHTING)

SECTION LINE

END CONSTRUCTION
STA. 284+79.21

W. COUNTY LINE RD.

SECTION LINE

MATCH LINE STA. 275+00

STH 181/N. 76TH ST.

280+00

PC 281+45.85

PT 284+48.65

285+00

R/W

TIME WARNER CABLE
(FIBER)

AT&T (FIBER)

WE ENERGIES
(ELECTRIC)

SLOPE INTERCEPT (TYP.)

END PROJECT
STA. 281+00.00

5

5

EXISTING GROUND

PROPOSED
SOUTHBOUND
PROFILE

275+90.00
EL 705.95

K = 167
L = 330'

277+35.00
EL 704.10

PI 278+50.00
EL 702.63

-1.28%

-2.66%

279+65.00
EL 699.58

K = 167
L = 230'

VPISTA. = 281+00
VPIEL =

END PROJECT
STA. 281+00.00

705
700
695
690

706.82 706.86
706.47 706.41
705.87 705.82
705.28 705.19
704.69 704.55
703.99 703.90
703.28 703.14
702.46 702.23
701.27 701.18
699.93 699.97
698.58 698.65
697.41 697.32
695.97 695.99
694.48 694.66
693.15 693.33
691.78 692.00
690.50

EXISTING GROUND

PROPOSED
NORTHBOUND
PROFILE

275+80.00
EL 705.34

K = 170
L = 310'

277+40.00
EL 703.42

PI 278+50.00
EL 702.10

-1.20%

-2.56%

279+60.00
EL 699.27

K = 161
L = 220'

VPISTA. = 281+00
VPIEL =

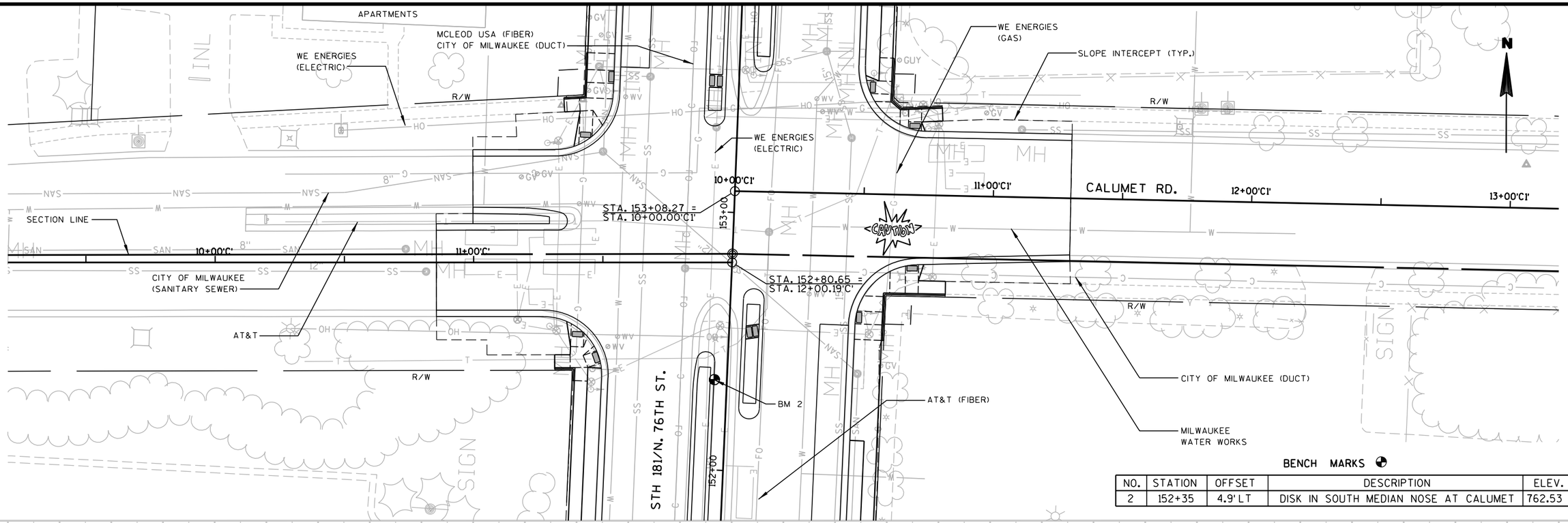
END PROJECT
STA. 281+00.00

705
700
695
690

706.33 706.11
705.82 705.67
705.33 705.10
704.69 704.50
704.09 703.90
703.50 703.29
702.73 702.58
701.89 701.72
700.77 700.70
699.40 699.53
698.13 698.25
696.91 696.97
695.61 695.68
694.26 694.40
692.95 693.12
691.68 691.84
690.46

275+00 276+00 277+00 278+00 279+00 280+00 281+00 282+00 283+00 284+00 285+00 286+00 287+00

PROJECT NO: 2140-08-73	HWY: STH 181	COUNTY: MILWAUKEE	PLAN AND PROFILE - MAINLINE	SHEET 695	E

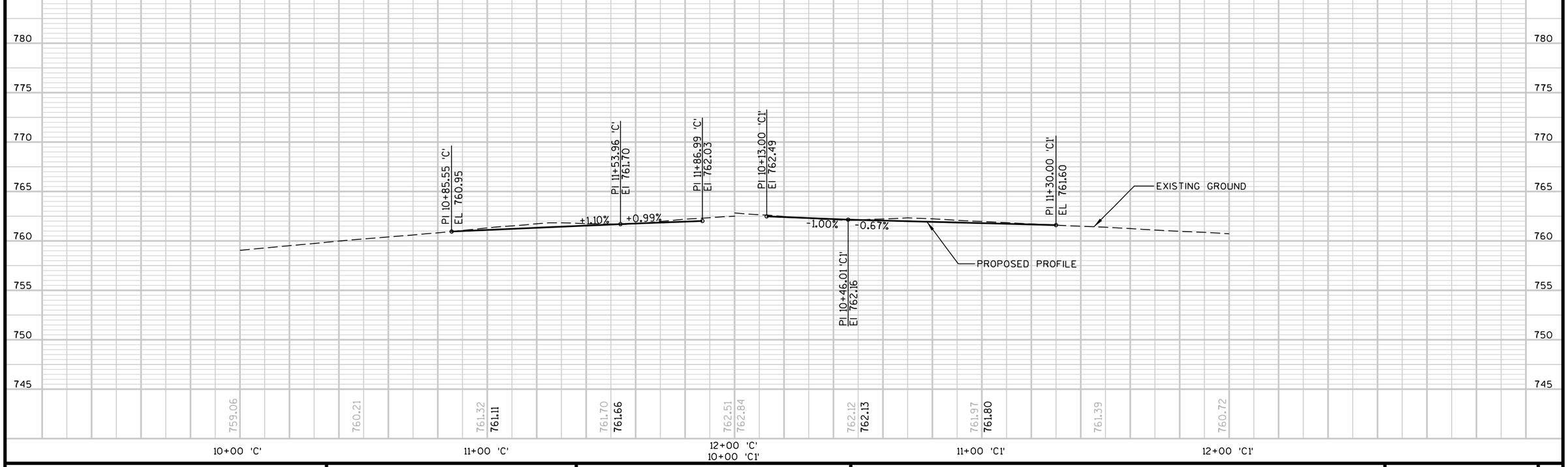


5

5

BENCH MARKS

NO.	STATION	OFFSET	DESCRIPTION	ELEV.
2	152+35	4.9' LT	DISK IN SOUTH MEDIAN NOSE AT CALUMET	762.53



PROJECT NO: 2140-08-73	HWY: STH 181	COUNTY: MILWAUKEE	PLAN AND PROFILE - CALUMET RD.	SHEET 696	E

MCLEOD USA (FIBER
CITY OF MILWAUKEE (DUCT)

CITY OF MILWAUKEE
(STREET LIGHTING)

CITY OF MILWAUKEE
(WATER)

WE ENERGIES
(GAS)

R/W

CAUTION

10+00'L'

11+00'L'

LOLITA AVE.

R/W

175+00

174+00

STH 181/N. 76TH ST.

AT&T (FIBER)

R/W

CITY OF MILWAUKEE
(SANITARY SEWER)

SLOPE INTERCEPT (TYP.)

100' FRONTAGE ROAD

N

5

5

780
775
770
765
760
755
750
745

PI 10+57.96 'L'
EL 766.24

PROPOSED PROFILE

+1.16%

+2.00%

EXISTING GROUND

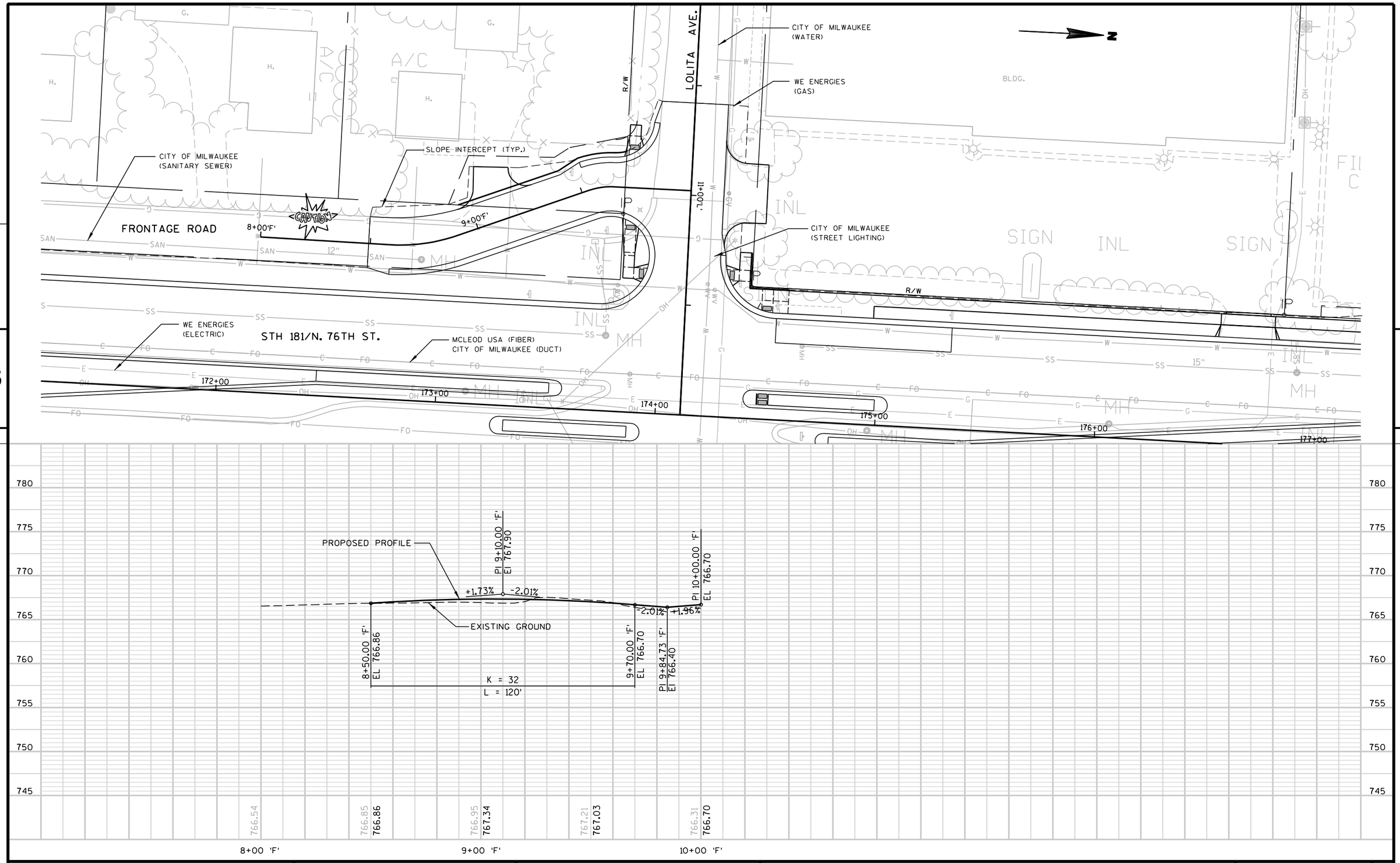
PI 11+54.00 'L'
El 767.35

PI 11+87.00 'L'
El 768.01

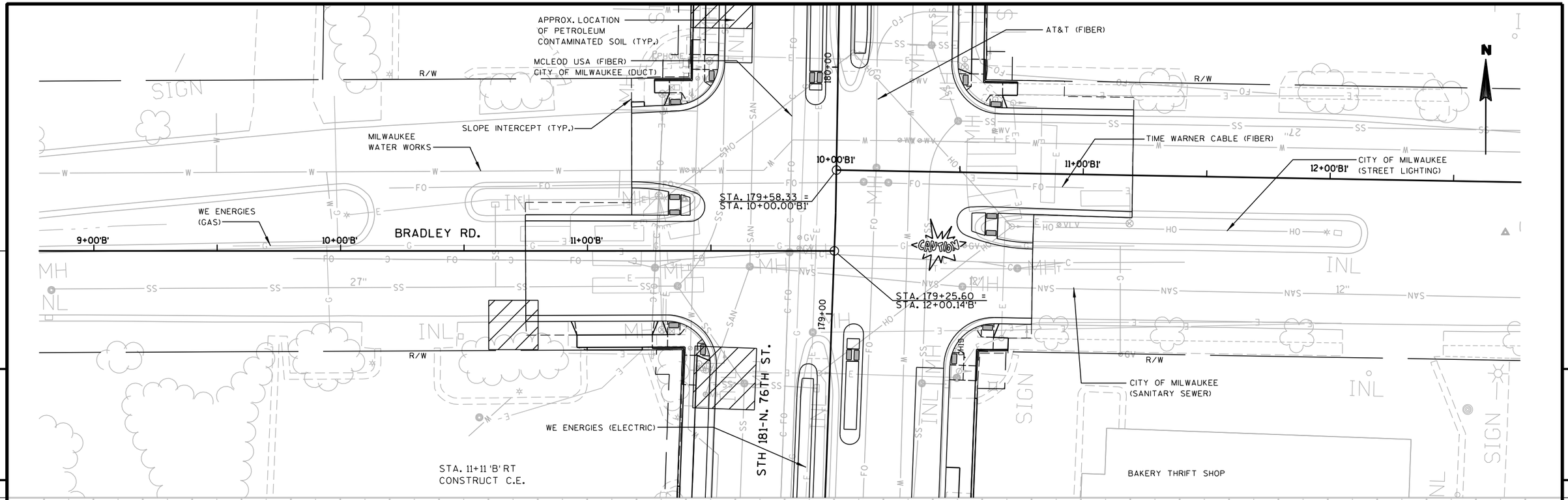
764.85
766.13
766.30 766.73
767.22 767.30
768.30

10+00 'L'
11+00 'L'
12+00 'L'

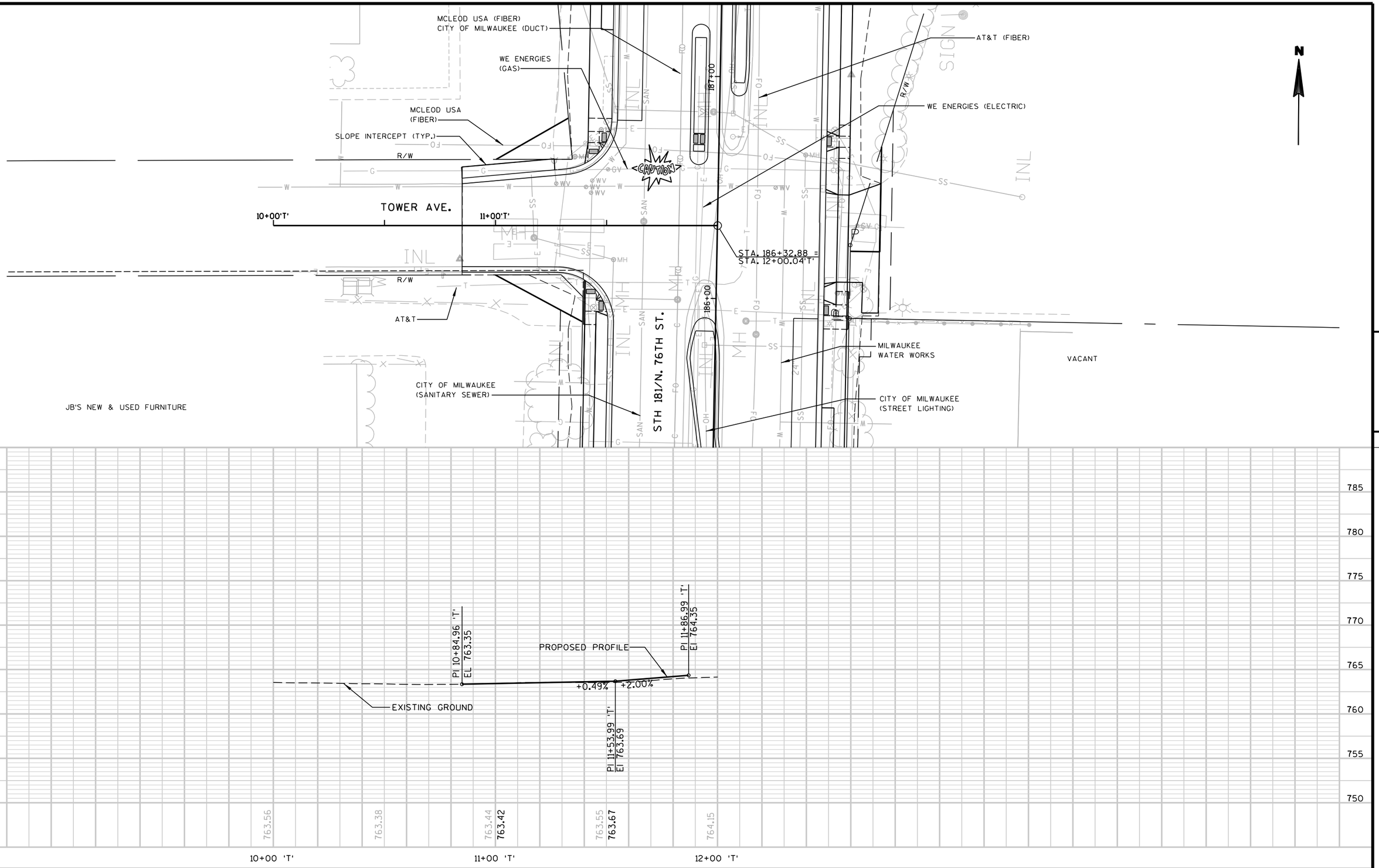
PROJECT NO:2140-08-73	HWY: STH 181	COUNTY:MILWAUKEE	PLAN AND PROFILE - LOLITA AVE.	SHEET 697	E



PROJECT NO:2140-08-73	HWY: STH 181	COUNTY: MILWAUKEE	PLAN AND PROFILE - FRONTAGE ROAD	SHEET 698	E



PROJECT NO: 2140-08-73	HWY: STH 181	COUNTY: MILWAUKEE	PLAN AND PROFILE - BRADLEY RD.	SHEET 699	E



PROJECT NO: 2140-08-73	HWY: STH 181	COUNTY: MILWAUKEE	PLAN AND PROFILE - TOWER AVE.	SHEET 700	E

FILE NAME : s:\@sai\051--100\089\099\micros\design\0873\050120_pp.dgn PLOT DATE : 7/31/2007 PLOT BY : $$...plotuser...$$ PLOT NAME : PLOT SCALE : $$.....plotscale.....$$ WISDOT/CADDS SHEET 40

STA. 11+00 'D' LT
CONSTRUCT C.E.

SECTION LINE
WE ENERGIES (GAS)
SLOPE INTERCEPT (TYP.)
MILWAUKEE WATER WORKS
TRINITY VILLAGE
N
CAUTION
R/W
SERVITE DR. 10+00'D'
11+00'D'
12+00'D'
13+00'D'
DEAN RD. 14+00'D'
STA. 205+98.87 =
STA. 12+00.07'D'
CITY OF MILWAUKEE (STREET LIGHTING)
AT&T (FIBER)
WE ENERGIES (ELECTRIC)
AT&T LOCAL NETWORK SERVICES
TIME WARNER CABLE (AERIAL)
BATTERIES PLUS
MCLEOD USA (FIBER)
CITY OF MILWAUKEE
(DUCT)
STH 181/N. 76TH ST.
205+00
36"
54"
21"

PI 10+85.51 'D'
EL 748.29
PI 11+53.98 'D'
El 747.78
PI 11+86.99 'D'
El 748.44
PI 12+13.00 'D'
El 748.54
PI 12+46.00 'D'
El 749.06
PI 13+19.93 'D'
EL 748.63
-0.74%
+2.00%
+1.58%
-0.58%
PROPOSED PROFILE
EXISTING GROUND

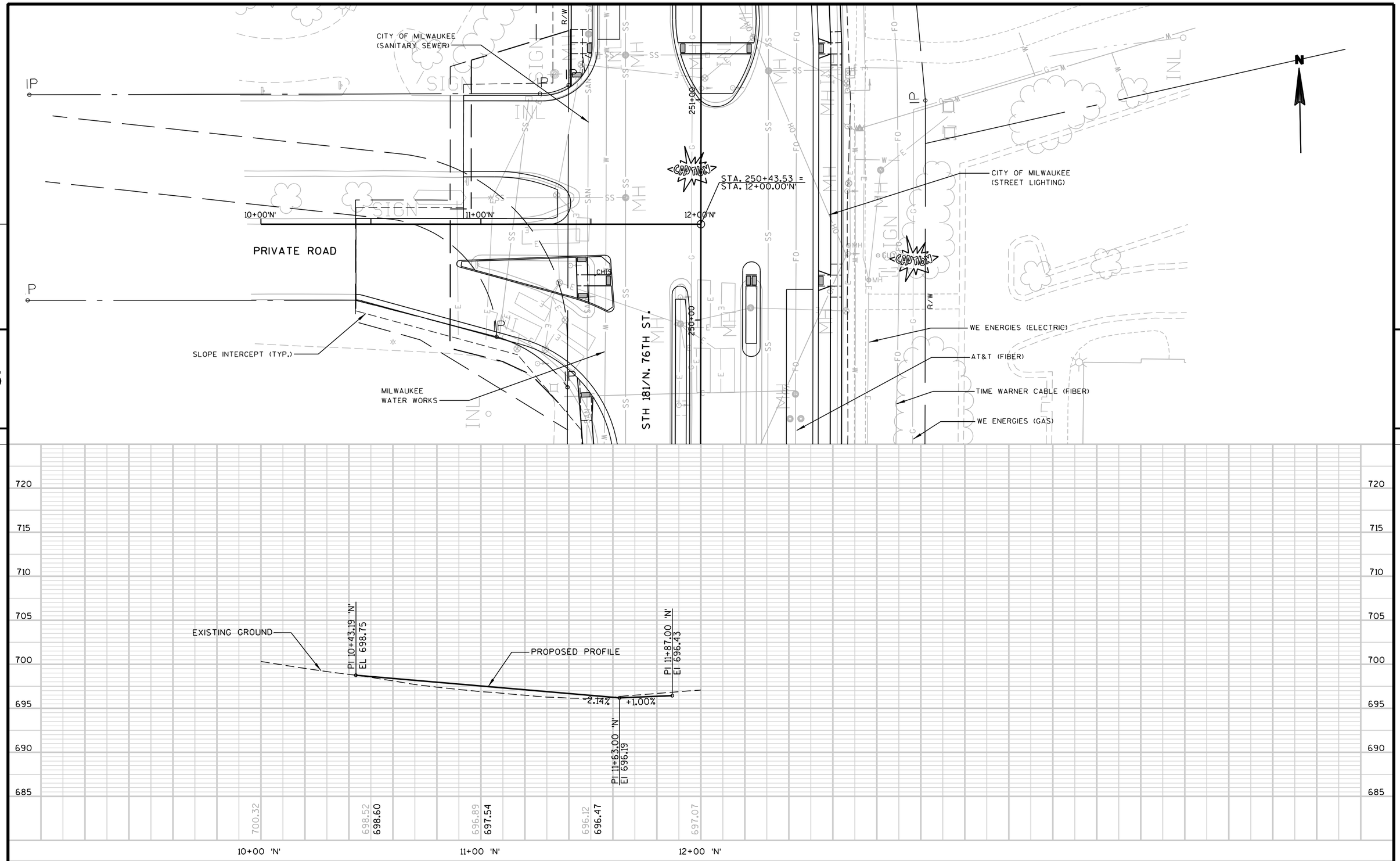
770 765 760 755 750 745 740 735

749.06 748.59 748.17 748.18 747.56 747.81 748.63 749.05 749.04 748.79 748.75 748.19 747.40

10+00 'D' 11+00 'D' 12+00 'D' 13+00'D' 14+00 'D'

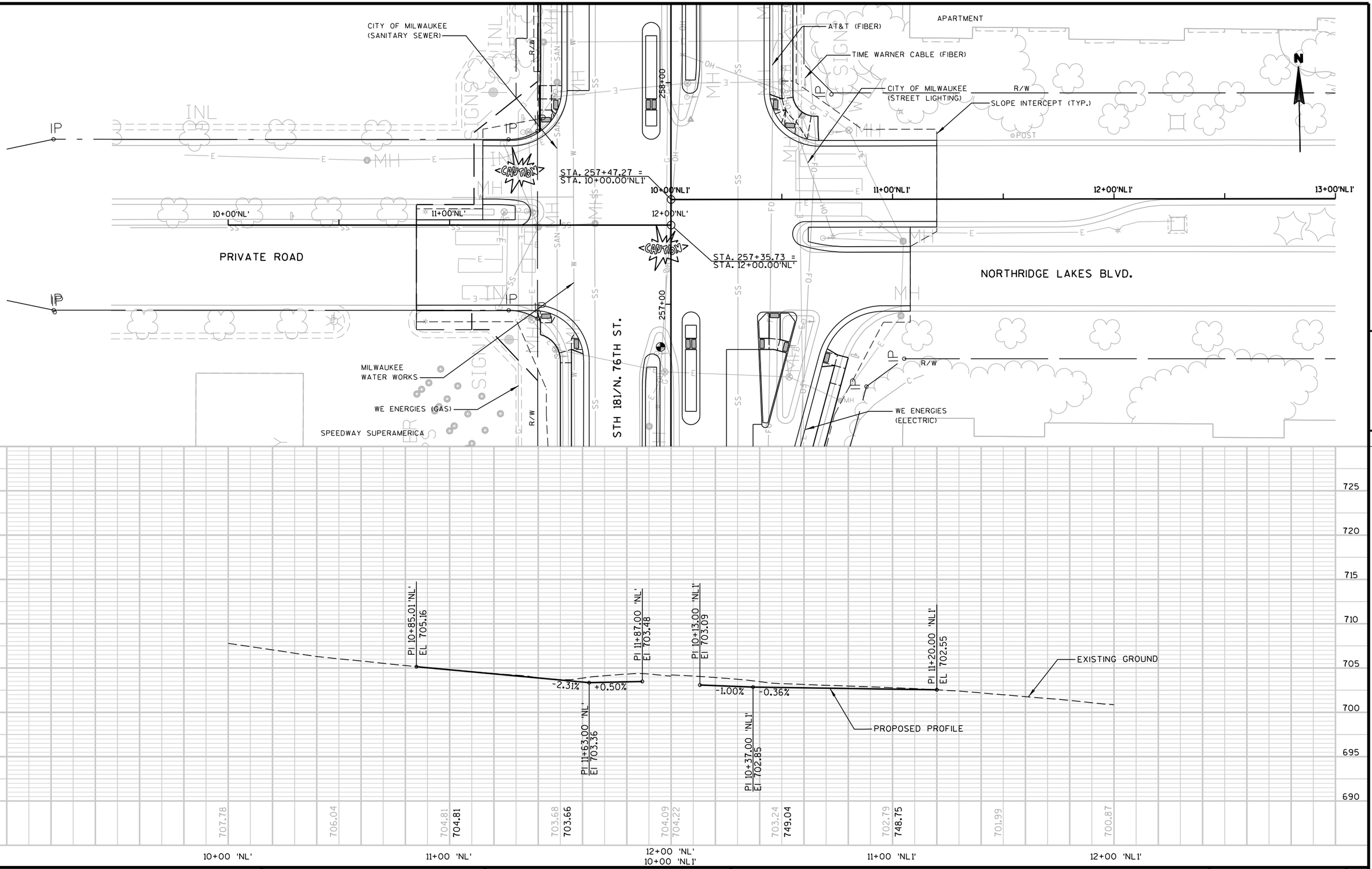
PROJECT NO: 2140-08-73	HWY: STH 181	COUNTY: MILWAUKEE	PLAN AND PROFILE - DEAN RD./SERVITE DR.	SHEET 701	E

FILE NAME : s:\@sai\051--100\089\099\micros\design\0873\050121_pp.dgn PLOT DATE : 7/31/2007 PLOT BY : $$...plotuser...$$ PLOT NAME : PLOT SCALE : $$.....plotscale.....$$ WISDOT/CADDS SHEET 40



PROJECT NO: 2140-08-73	HWY: STH 181	COUNTY: MILWAUKEE	PLAN AND PROFILE - PRIVATE RD (STA. 250+44 LT)	SHEET 702	E

FILE NAME : s:\@sai\051--100\089\099\micros\design\0873\050122_pp.dgn PLOT DATE : 7/31/2007 PLOT BY : $$...plotuser...$$ PLOT NAME : PLOT SCALE : $$.....plotscale.....$$ WISDOT/CADDS SHEET 40



PROJECT NO: 2140-08-73	HWY: STH 181	COUNTY: MILWAUKEE	PLAN AND PROFILE - NORTHRIDGE LAKES BLVD.	SHEET 703	E

FILE NAME : s:\@sdi\051--100\089\099\micros\design\0873\050123_pp.dgn PLOT DATE : 7/31/2007 PLOT BY : $$...plotuser...$$ PLOT NAME : PLOT SCALE : $$.....plotscale.....$$ WISDOT/CADDS SHEET 40

STH 181 / N. 76TH ST.

R/W

225+00'SW'

220+00

220+00'SE'

225+00

225+00'SE'

230+00

PT 231+32.74

230+00'SE'

230+00'SE'

221+00'BD.

222+00'BD.

223+00'BD.

224+00'BD.

225+00'BD.

BROWN DEER RD.
STH 100

CITY OF MILWAUKEE
(STREET LIGHTING)

ST. CATHERINE
CATHOLIC CHURCH

SLOPE INTERCEPT (TYP.)

MADISON METROPOLITAN
SEWERAGE DISTRICT

TIME WARNER
CABLE (FIBER)

SBC (FIBER)

SECTION LINE

PROPOSED PROFILE

EXISTING GROUND

PI 221+00.00
EL 731.94

PI 221+50.00'SE'
EI 730.73

PI 222+00.00'SE'
EI 729.45

PI 222+50.00'SE'
EI 727.98

PI 224+40.00'SE'
EI 722.20

-2.42%
-2.56%
-2.94%
-3.04%
-3.04%
-5.08%

222+75.00'SE'
EL 727.22

226+05.00'SE'
EL 713.82

K = 162
L = 330'

K = 46
L = 280'

229+60.00'SE'
EL 695.78

232+40.00'SE'
EL 689.99

PI 233+04.31'SE'
EL 690.61

-5.08%
+0.95%

PI 231+00.00'SE'
EI 688.66

K = 69
L = 50'

PI 230+79.25 'SE'
EL 691.33

231+50.00 'SE'
EL 690.46

232+00.00 'SE'
EL 690.02

PI 232+41.76 'SE'
EL 689.81

-1.23%
-0.51%

PI 231+75.00 'SE'
EI 690.15

735
730
725
720
715
710
705
700
695
690
685

700

695

690

685

731.92 731.94
730.56 730.73
729.25 729.45
727.75 727.98
726.17 726.44
724.41 724.77
722.60 722.94
720.73 720.95
718.68 718.81
716.33 716.52
713.83 714.07
711.34 711.53
708.87 708.99
706.35 706.45
703.84 703.91
701.41 701.37
698.90 698.83
696.45 696.29
694.42 693.92
692.67 692.08
691.38 690.78
690.57 690.01
690.12 689.79
690.11 690.09
690.56 690.56

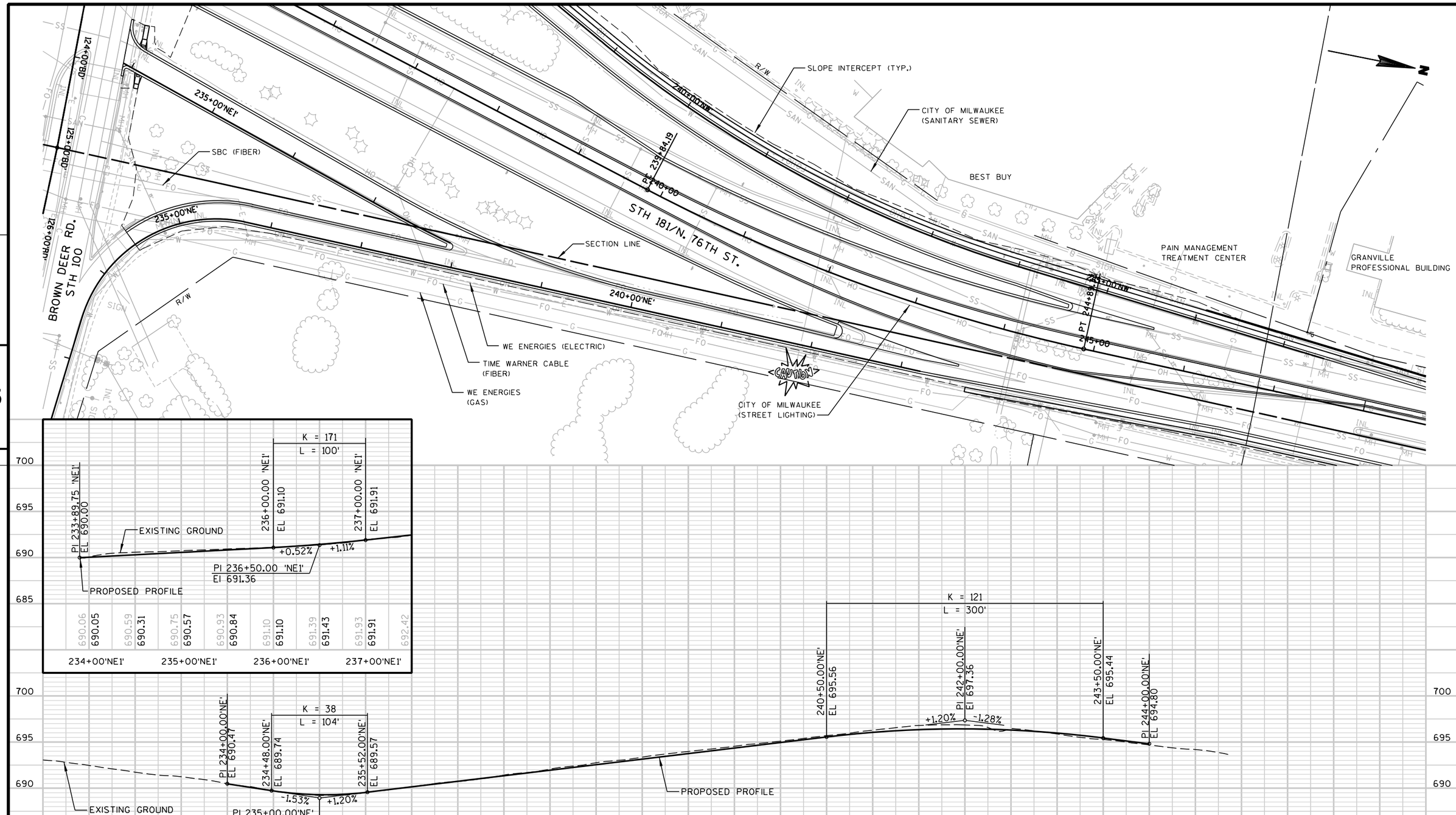
692.39
691.05 691.07
690.15 690.46
689.75 690.02

221+00'SE' 222+00'SE' 223+00'SE' 224+00'SE' 225+00'SE' 226+00'SE' 227+00'SE' 228+00'SE' 229+00'SE' 230+00'SE' 231+00'SE' 232+00'SE' 233+00'SE'

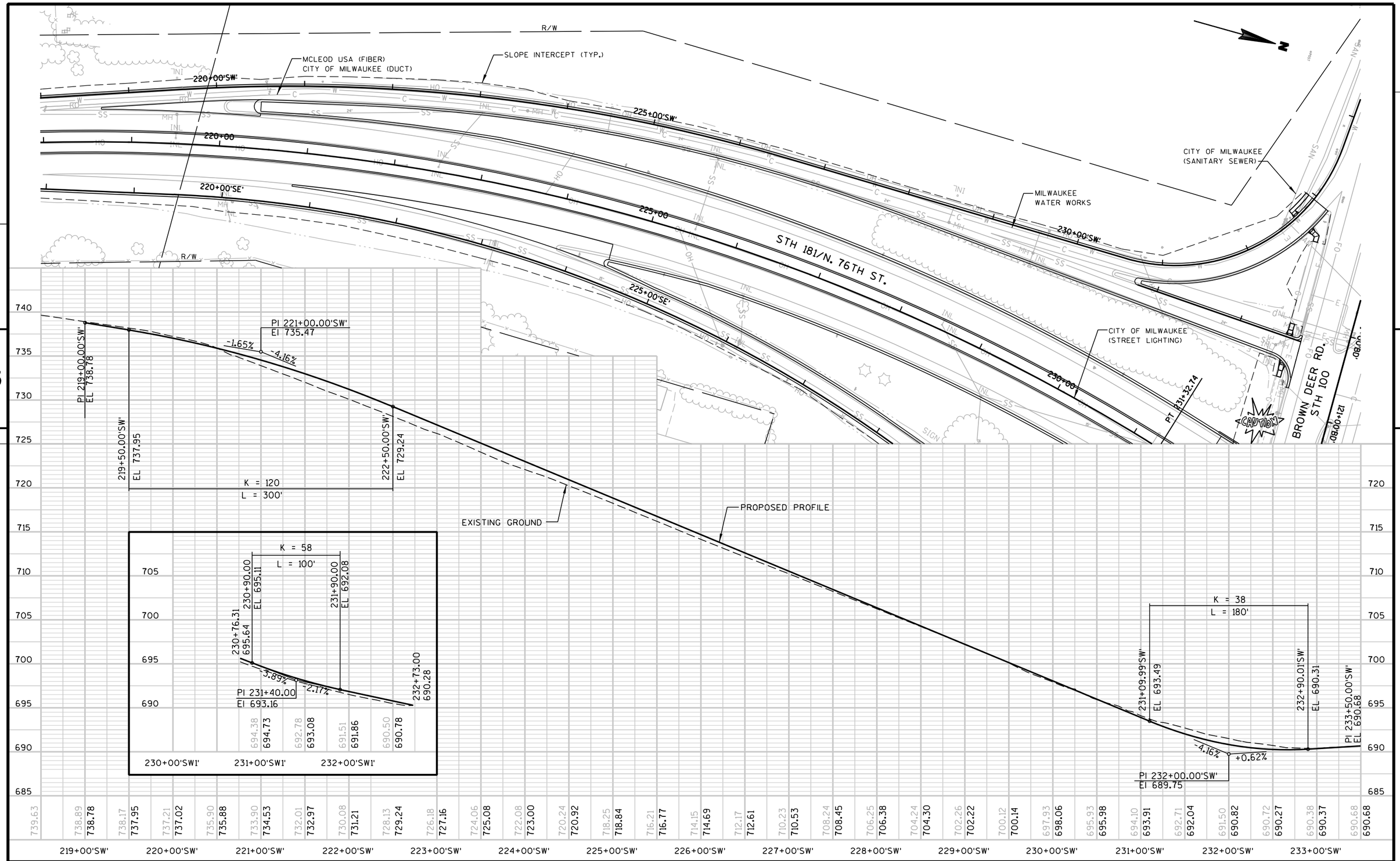
5

5

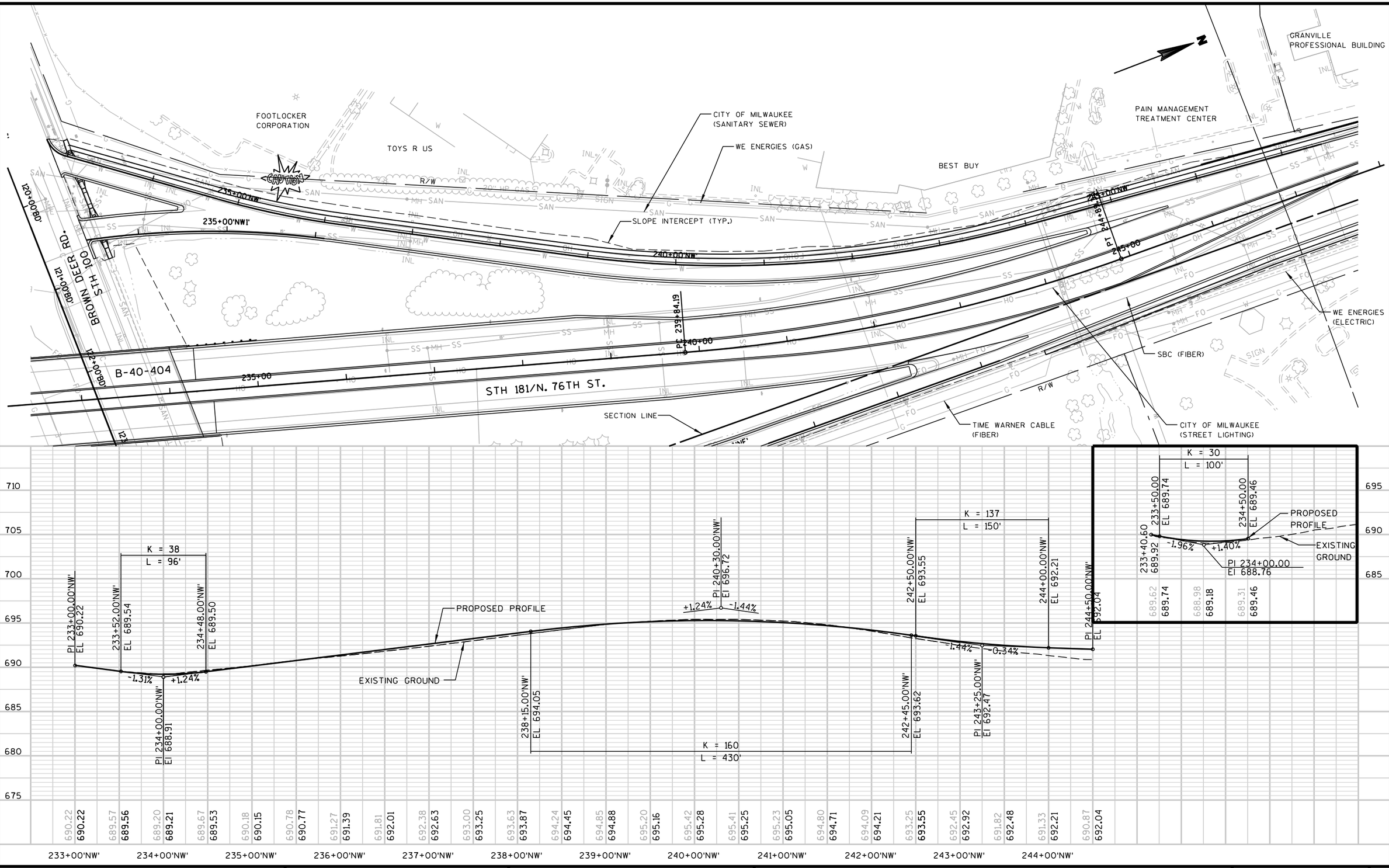
PROJECT NO: 2140-08-73	HWY: STH 181/N. 76TH ST.	COUNTY: MILWAUKEE	PLAN AND PROFILE - 'SE' RAMP	SHEET 704	E



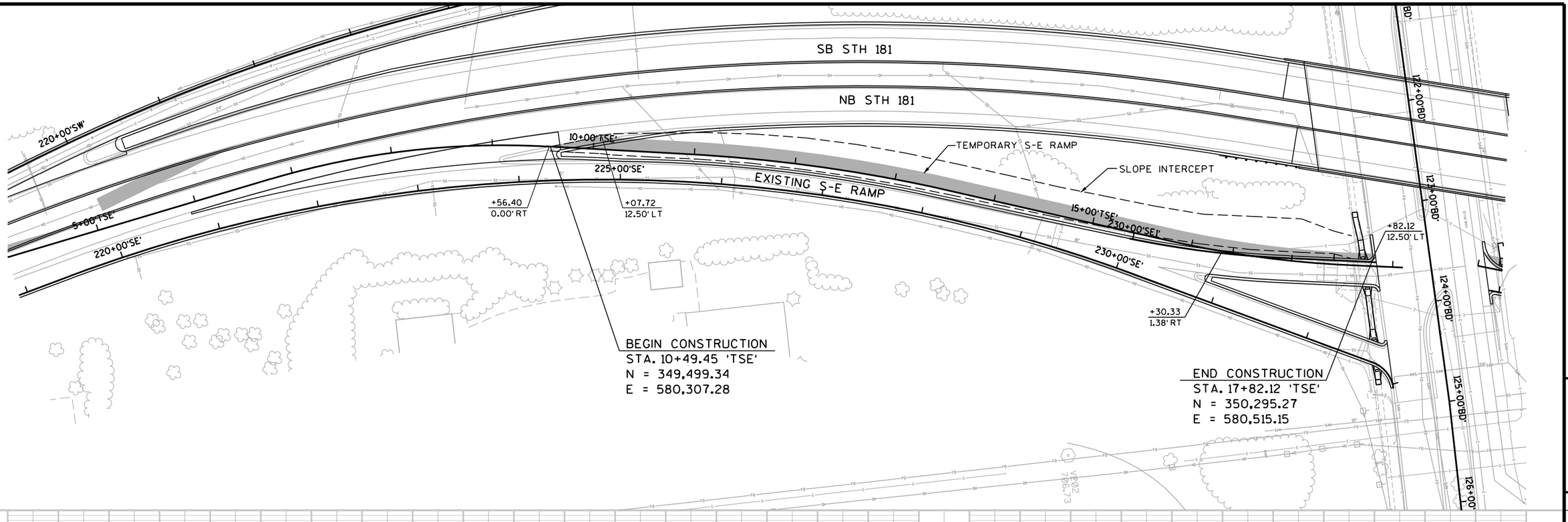
PROJECT NO: 2140-08-73	HWY: STH 181/N. 76TH ST.	COUNTY: MILWAUKEE	PLAN AND PROFILE - 'NE' & 'NE1' RAMPS	SHEET 705	E

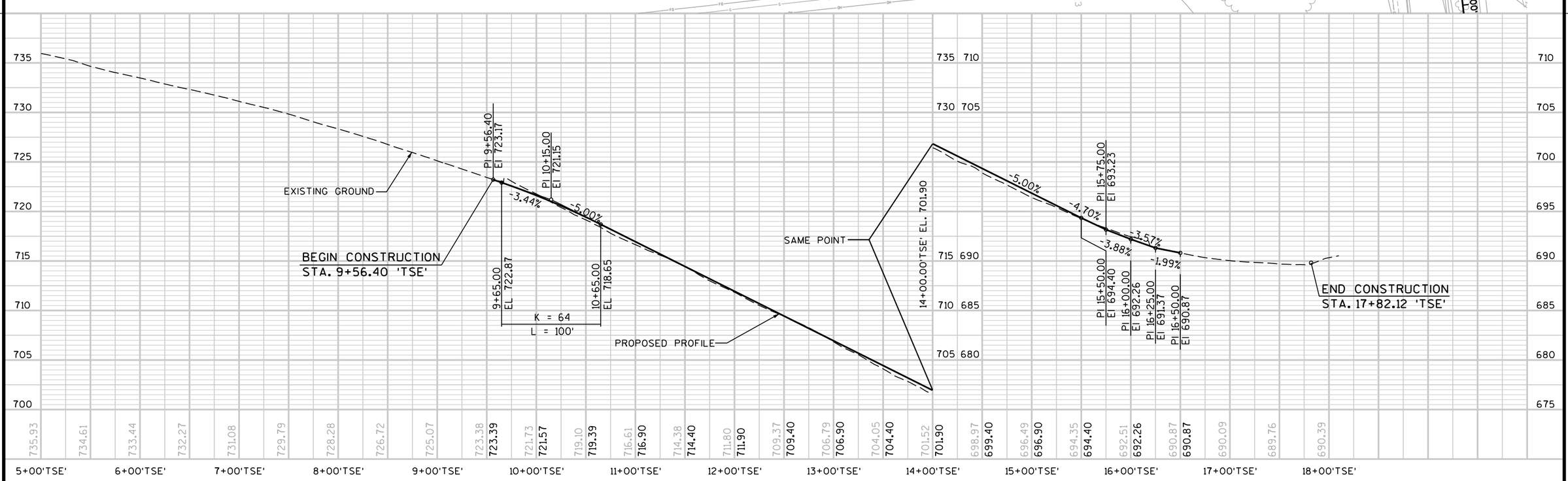


PROJECT NO: 2140-08-73	HWY: STH 181/N. 76TH ST.	COUNTY: MILWAUKEE	PLAN AND PROFILE - 'SW' & 'SW1' RAMPS	SHEET 706	E

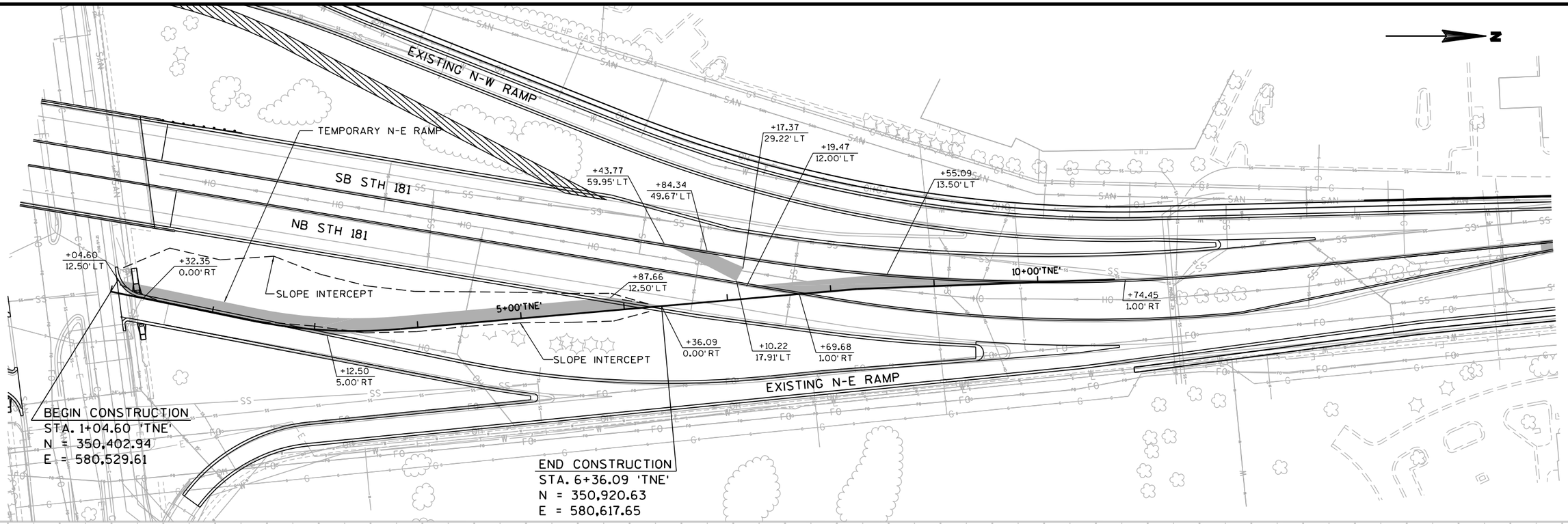


PROJECT NO: 2140-08-73	HWY: STH 181/N. 76TH ST.	COUNTY: MILWAUKEE	PLAN AND PROFILE - NW RAMP	SHEET 707	E





PROJECT NO:2140-08-71	HWY: STH 181	COUNTY: MILWAUKEE	PLAN AND PROFILE - TEMPORARY RAMP (TSE)	SHEET 708	E





PROJECT NO:2140-08-71	HWY: STH 181	COUNTY: MILWAUKEE	PLAN AND PROFILE - TEMPORARY RAMP (TNE)	SHEET 709	E

BEGIN CONSTRUCTION
STA. 6+21.00 'TSW'
N = 349,298.80
E = 580,222.50

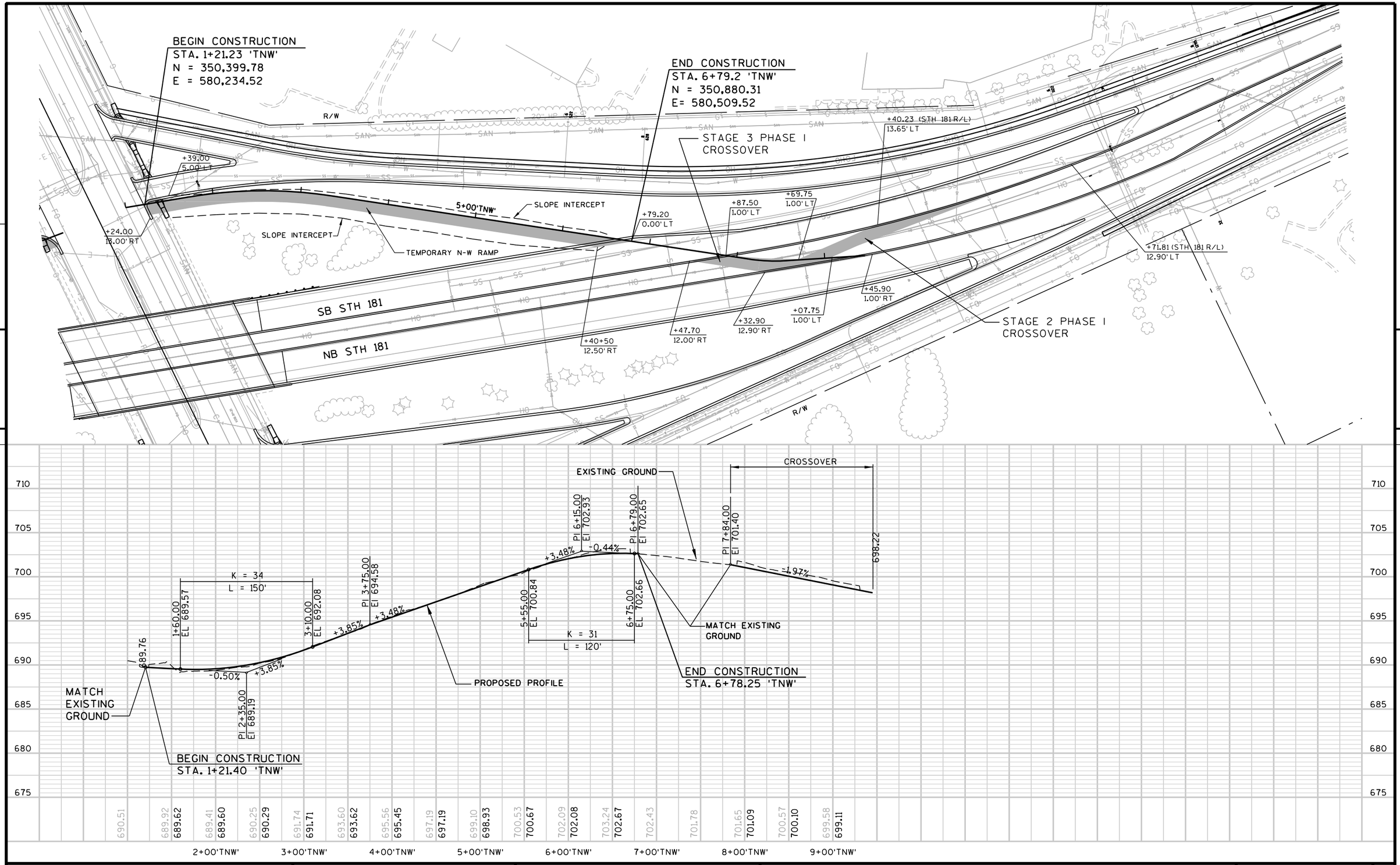
R/W
+71.55
1.00' LT
+47.98
12.00' RT
+47.85
0.00' LT
+45.88
12.00' RT
SLOPE INTERCEPT
10+00'TSW'
5+00'TSW'
15+00'TSW'
+58.69
12.00' LT
TEMPORARY CROSSOVER
+0+00
1.00' LT
R/W
SB STH 181
NB STH 181
TEMPORARY W-S RAMP
+5.00
5.00' LT
+19.10
12.50' RT
SLOPE INTERCEPT

END CONSTRUCTION
STA. 16+19.00 'TSW'
N = 350,285.61
E = 580,220.91

PI 4+56.72
El 733.35
-2.42%
PI 6+21.00
El 730.10
-3.36%
PI 6+69.77
El 728.47
-3.36%
PI 7+40.77
El 726.07
-4.85%
PI 8+11.77
El 722.62
K = 95
L = 142'
BEGIN CONSTRUCTION
STA. 6+21.00 'TSW'
EXISTING GROUND
PROPOSED PROFILE
PI 11+23.63
El 707.49
EL. 701.80
12+50.00
SAME POINT
-4.85%
-2.59%
PI 13+23.63
El 697.78
K = 176
L = 400'
PI 15+23.63
El 692.60
690.14
END CONSTRUCTION
STA. 16+19.00 'TSW'

735 730 725 720 715 710 705 700
720 715 710 705 700 695 690 685

| | | |



PROJECT NO:2140-08-71	HWY: STH 181	COUNTY: MILWAUKEE	PLAN AND PROFILE - TEMPORARY RAMP (TNW)	SHEET 711	E

FILE NAME : s:\@sai\051--100\089\099\micros\design\0873\050131_pp.dgn PLOT DATE : 7/31/2007 PLOT BY : $$...plotuser...$$ PLOT NAME : PLOT SCALE : $$.....plotscale.....$$

WISDOT/CADDS SHEET 40

Standard Detail Drawing List

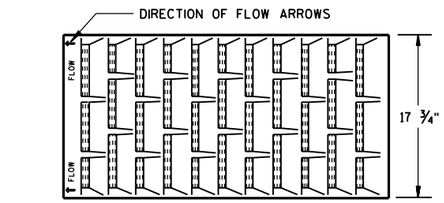
08A5-16A	INLET COVERS TYPE A, H, A-S, & H-S
08A5-16B	INLET COVERS TYPE B, B-A, C, MS, MS-A, & WM
08A5-16C	INLET COVERS TYPE F, HM, HM-S, S, V, HM-GJ, & HM-GJ-S
08A5-17D	INLET COVER, TYPE Z MANHOLE COVERS, TYPE K, J, J-S, J-H, J-H-S, L & M
08A6-4	CATCH BASINS TYPE 1 & 2
08B6-4	MANHOLES TYPE 1
08B7-4	MANHOLES TYPE 2 & 3
08C1-5	INLETS TYPE 1, 2, 3 & 4
08C5-2	INLETS TYPE 8, 9, 10, AND 11
08D1-14	CONCRETE CURB, CONCRETE CURB AND GUTTER & PAVEMENT TIES
08D5-11A	CURB RAMPS TYPES 1 AND 1-A
08D5-11B	CURB RAMPS TYPES 2 AND 3
08D5-11C	CURB RAMPS TYPE 4A
08D5-11D	CURB RAMPS TYPE 4B
08D5-11E	CURB RAMPS TYPES 5, 6, 7A, 7B & 8
08E9-6	SILT FENCE
08E10-2	INLET PROTECTION TYPE A, B, C AND D
09B2-7	CONDUIT
09B4-9	PULL BOX
09C2-4	CONCRETE BASES, TYPES 1, 2 & 5
09C3-2	TRANSFORMER/PEDESTAL BASES
09C6-5	CONCRETE CONTROL CABINET BASE, TYPE 9, SPECIAL
09D1-3	CABINET SERVICE INSTALLATION (METER BREAKER PEDESTAL)
09D2-2	SIGNAL OR LIGHTING CONTROL CABINET
09E1-6A	POLE MOUNTINGS FOR TRAFFIC SIGNALS TYPE 2
09E1-6B	POLE MOUNTINGS FOR TRAFFIC SIGNALS AND LIGHTING UNITS, TYPE 3 (HEAVY DUTY)
09E1-8C	POLE MOUNTINGS FOR TRAFFIC SIGNALS AND LIGHTING UNITS, TYPE 4
09E1-6D	POLE MOUNTINGS FOR LIGHTING UNITS, TYPE 5 (30 FEET)
09E1-4G	HARDWARE DETAILS FOR POLE MOUNTINGS
09E3-2	NON-FREEWAY LIGHTING UNIT POLE WIRING
09E6-2	TRAFFIC SIGNAL STANDARD POLY BRACKET MOUNTINGS (TYPICAL) 13 FT. OR 15 FT.
09E7-3	TRAFFIC SIGNAL STANDARD PEDESTRIAN AND FLASHER TYPICAL MOUNTING DETAILS
09F8-3	LOOP DETECTOR PLACED IN CRUSHED AGGREGATE BASE (NEW ASPHALTIC PAVEMENT)
09F13-3	LOOP DETECTOR INSTALLED IN EXISTING ASPHALTIC PAVEMENT
09F15-3B	LOOP DETECTOR INSTALLED IN BASE COURSE WITH PULL (SPLICE) BOX OFF ROADWAY (OPTION 2)
09G1-1A	SPAN WIRE TEMPORARY TRAFFIC SIGNAL
09G1-1B	SPAN WIRE TEMPORARY TRAFFIC SIGNAL
09G1-1C	SPAN WIRE TEMPORARY TRAFFIC SIGNAL
09G1-1D	SPAN WIRE TEMPORARY TRAFFIC SIGNAL
09G1-1E	SPAN WIRE TEMPORARY TRAFFIC SIGNAL
09G1-1F	SPAN WIRE TEMPORARY TRAFFIC SIGNAL
09G1-1G	SPAN WIRE TEMPORARY TRAFFIC SIGNAL
11B2-2	CONCRETE MEDIAN NOSE
12A3-9	NAME PLATE (STRUCTURES)
12A4-1	STRUCTURE IDENTIFICATION PLAQUES, SIGN BRIDGES & OVERHEAD SIGN SUPPORT
13B2-5	CONCRETE PAVEMENT APPROACH SLAB
13C1-12	CONCRETE PAVEMENT LONGITUDINAL JOINTS AND PAVEMENT TIES
13C9-6A	CONCRETE PAVEMENT REPAIR
13C9-6B	CONCRETE PAVEMENT REPAIR & DOWEL BAR INSTALLATION DETAILS
13C13-5	URBAN DOWELED CONCRETE PAVEMENT
14B7-11A	CONCRETE BARRIER TEMPORARY PRECAST, 12'-6"
14B7-11B	CONCRETE BARRIER TEMPORARY PRECAST, 12'-6"
14B7-11C	CONCRETE BARRIER TEMPORARY PRECAST, 12'-6"
14B7-11D	CONCRETE BARRIER TEMPORARY PRECAST, 12'-6"
14B7-11E	CONCRETE BARRIER TEMPORARY PRECAST, 10'-0"
14B7-11F	CONCRETE BARRIER TEMPORARY PRECAST, 10'-0"
14B15-5A	STEEL PLATE BEAM GUARD, CLASS "A" INSTALLATION & ELEMENTS
14B15-5B	STEEL PLATE BEAM GUARD, CLASS "A" INSTALLATION & ELEMENTS
14B18-5A	STEEL PLATE BEAM GUARD, CLASS "A" (AT BRIDGES, OBSTACLES AND SIDEROADS/DRIVEWAYS)
14B20-6A	STEEL THRIE BEAM STRUCTURE APPROACH
14B20-6B	STEEL THRIE BEAM STRUCTURE APPROACH, CONNECTION TO SQUARE END AND VERTICAL FACED PARAPETS
14B24-4A	STEEL PLATE BEAM GUARD ENERGY ABSORBING TERMINAL
14B24-4B	STEEL PLATE BEAM GUARD ENERGY ABSORBING TERMINAL
14B24-4C	STEEL PLATE BEAM GUARD ENERGY ABSORBING TERMINAL
15C2-4A	BARRICADES AND SIGNS FOR MAINLINE CLOSURES
15C2-4B	BARRICADES AND SIGNS FOR MAINLINE CLOSURES
15C2-4C	DETOUR SIGNING FOR MAINLINE CLOSURES
15C3-1	BARRICADES AND SIGNS FOR SIDEROAD CLOSURES

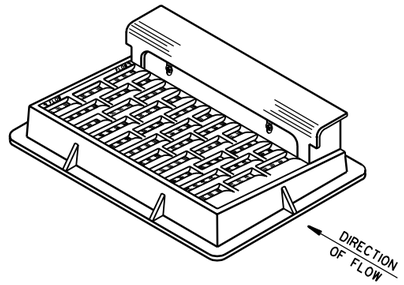
6

Standard Detail Drawing List

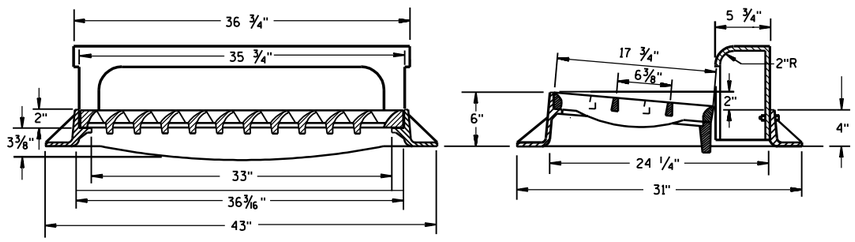
15C7-8A	PAVEMENT MARKING SYMBOLS
15C7-8B	PAVEMENT MARKING WORDS
15C8-10A	PAVEMENT MARKING (MAINLINE)
15C8-10D	PAVEMENT MARKING (LEFT TURN LANE)
15C8-10E	PAVEMENT MARKING (ISLANDS, STOP LINE & CROSS WALK)
15C8-10F	PAVEMENT MARKING (RAMPS & GORES)
15C11-5	FLEXIBLE TUBULAR MARKER POST, ANCHOR & BASES
15C12-3	TRAFFIC CONTROL FOR LANE CLOSURE (SUITABLE FOR MOVING OPERATIONS)
15C23-1	30" DIAMETER CANTILEVER OVERHEAD SIGN SUPPORT BASE
15D20-1	TRAFFIC CONTROL, SINGLE LANE CLOSURE, NON-FREEWAY/EXPRESSWAY
15D21-1	TRAFFIC CONTROL, INTERSECTION WITHIN SINGLE LANE CLOSURE
15D22-1	TRAFFIC CONTROL, TWO LANE CLOSURE, NON-FREEWAY/EXPRESSWAY
15D23-1	TRAFFIC CONTROL, INTERSECTION WITHIN TWO LANE CLOSURE
15D30-1	TRAFFIC CONTROL, SIDEWALK CLOSURE
16A1-6	LANDMARK REFERENCE MONUMENTS AND COVERS

NOTE:
GRATE IS REVERSIBLE.





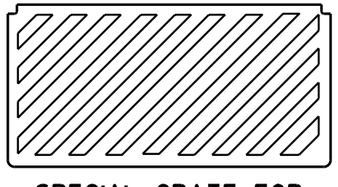
NOTE: CURB BOX HEIGHT ADJUSTABLE 6" TO 9"



TYPE "H"

(APPROXIMATE WEIGHT 422 LBS.)
FRAME..... 175 LBS.
GRATE..... 138 LBS.
CURB BOX..... 109 LBS.

1 1/8" DIAGONAL BARS WITH 1 5/8" OPENINGS



SPECIAL GRATE FOR TYPE "H" COVER

(MEASURES 35 1/4" X 17 3/4" X 2")
(APPROXIMATE WEIGHT 172 LBS.)
GRATE..... 172 LBS.

(NOTED AS TYPE H-S ON DRAINAGE TABLE)

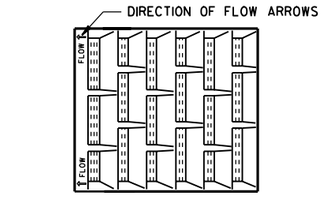
GENERAL NOTES

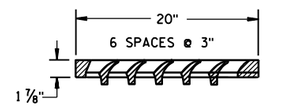
DETAILS OF CONSTRUCTION, MATERIALS AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS AND THE APPLICABLE SPECIAL PROVISIONS.

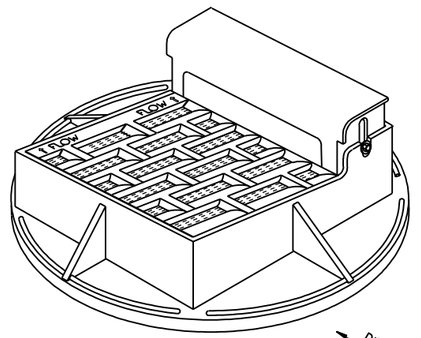
DETAIL DRAWINGS FOR PROPOSED ALTERNATE DESIGNS FOR CATCH BASIN, MANHOLE AND INLET COVERS SHALL BE SUBMITTED TO THE ENGINEER FOR APPROVAL PROVIDING THAT SUCH ALTERNATE DESIGNS MAKE PROVISION FOR EQUIVALENT CAPACITY AND STRENGTH.

ROUND FRAMES AND COVERS SHALL HAVE CONTINUOUSLY MACHINED BEARING SURFACES TO PREVENT ROCKING AND RATTLING.

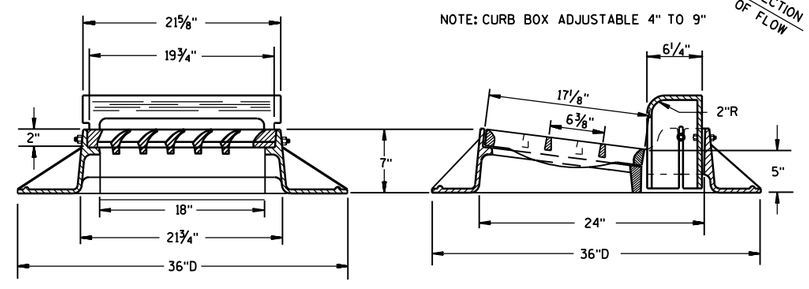
THE ACTUAL WEIGHT OF COVERS MAY VARY WITHIN 5 PERCENT, PLUS OR MINUS, OF THE APPROXIMATE WEIGHT.







NOTE: CURB BOX ADJUSTABLE 4" TO 9"

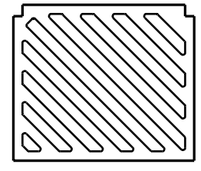


TYPE "A"

(APPROXIMATE WEIGHT 325 LBS.)
FRAME..... 157 LBS.
GRATE..... 84 LBS.
CURB BOX..... 84 LBS.

NOTE:
GRATE IS REVERSIBLE.

1" DIAGONAL BARS WITH 1 1/2" OPENINGS



SPECIAL GRATE FOR TYPE "A" COVER

(MEASURES 19 3/4" X 17" X 1 7/8"
GRATE..... 84 LBS.

(NOTED AS TYPE A-S ON DRAINAGE TABLE)

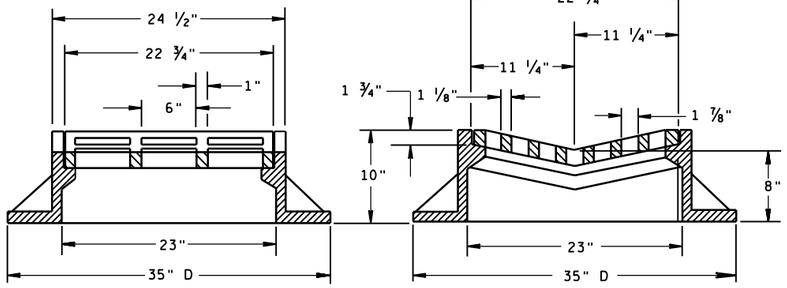
INLET COVERS
TYPE A, H, A-S, & H-S

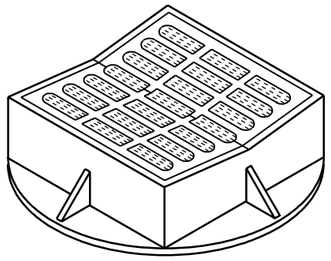
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
10/4/99
DATE
CHIEF ROADWAY DEVELOPMENT ENGINEER
FHWA

6

S.D.D. 8 A 5-16a

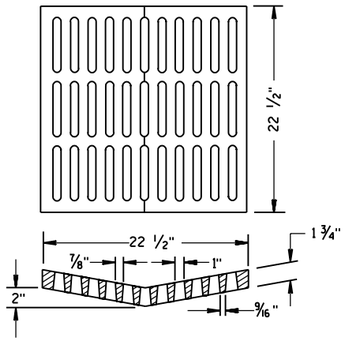




TYPE "B"

(APPROXIMATE WEIGHT 395 LBS.)

FRAME..... 285 LBS.
GRATE..... 110 LBS.

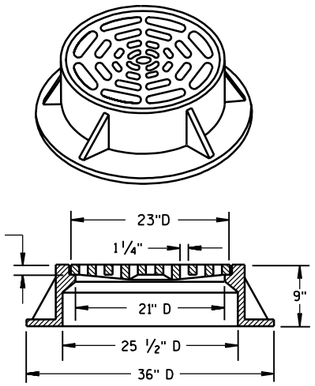


ALTERNATIVE GRATE FOR TYPE "B" COVER

(APPROXIMATE GRATE WEIGHT 125 LBS.)
GRATE.....125 LBS.

USE WHERE PEDESTRIAN OR BICYCLE TRAFFIC IS POSSIBLE.

NOTED AS TYPE B-A ON THE DRAINAGE TABLE



TYPE "C"

(APPROXIMATE WEIGHT 340 LBS.)

FRAME..... 235 LBS.
GRATE..... 105 LBS.

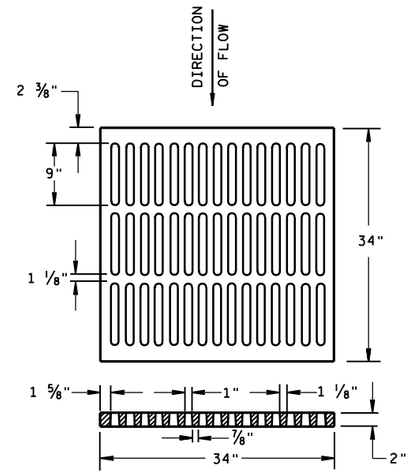
GENERAL NOTES

DETAILS OF CONSTRUCTION, MATERIALS AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS AND THE APPLICABLE SPECIAL PROVISIONS.

DETAIL DRAWINGS FOR PROPOSED ALTERNATE DESIGNS FOR CATCH BASIN, MANHOLE AND INLET COVERS SHALL BE SUBMITTED TO THE ENGINEER FOR APPROVAL PROVIDING THAT SUCH ALTERNATE DESIGNS MAKE PROVISION FOR EQUIVALENT CAPACITY AND STRENGTH.

ROUND FRAMES AND COVERS SHALL HAVE CONTINUOUSLY MACHINED BEARING SURFACES TO PREVENT ROCKING AND RATTLING.

THE ACTUAL WEIGHT OF COVERS MAY VARY WITHIN 5 PERCENT, PLUS OR MINUS, OF THE APPROXIMATE WEIGHT.

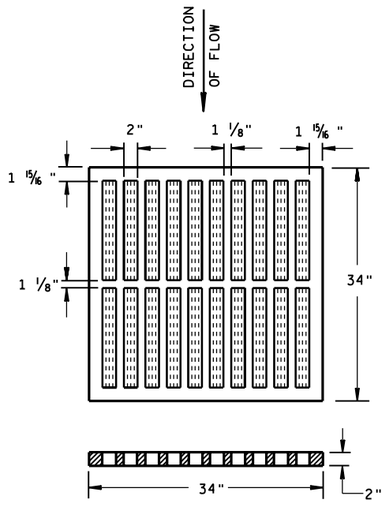


ALTERNATIVE TYPE "MS"

(APPROXIMATE GRATE WEIGHT 365 LBS.)
GRATE.....365 LBS.

USE WHERE PEDESTRIAN OR BICYCLE TRAFFIC IS PERMITTED

NOTED AS TYPE MS-A ON THE DRAINAGE TABLE

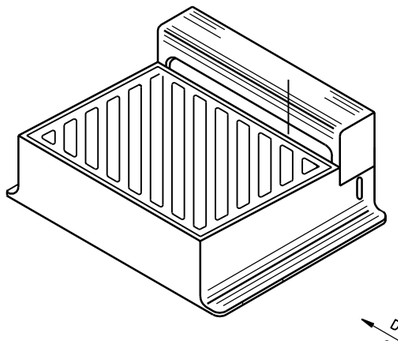


TYPE "MS"

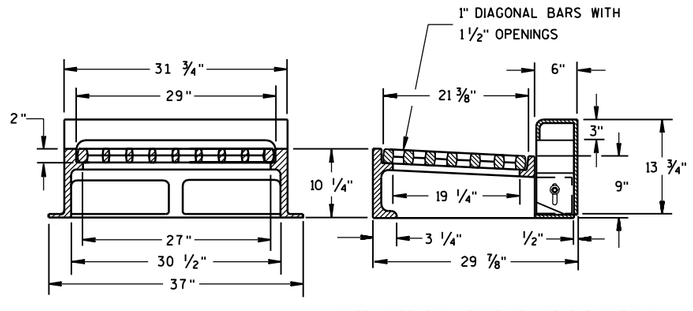
(APPROXIMATE GRATE WEIGHT 270 LBS.)
GRATE.....270 LBS.

USE ON FREEWAYS AND EXPRESSWAYS

NOTED AS TYPE MS ON DRAINAGE TABLE



DIAGONAL SLOTS, SHALL BE ORIENTED TO THE DIRECTION OF FLOW AS ILLUSTRATED. GRATES ARE MANUFACTURED TO BE REVERSIBLE.



NOTE: CURB BOX HEIGHT ADJUSTABLE 6" TO 9"

TYPE "WM"

(APPROXIMATE WEIGHT 670 LBS.)

FRAME..... 360 LBS.
GRATE..... 160 LBS.
CURB BOX..... 150 LBS.

INLET COVERS
TYPE B, B-A, C, MS, MS-A, & WM

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

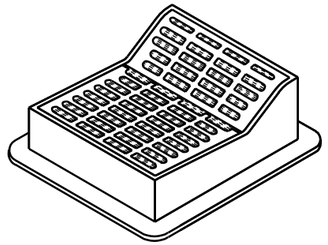
APPROVED
10/4/99
DATE
FHWA

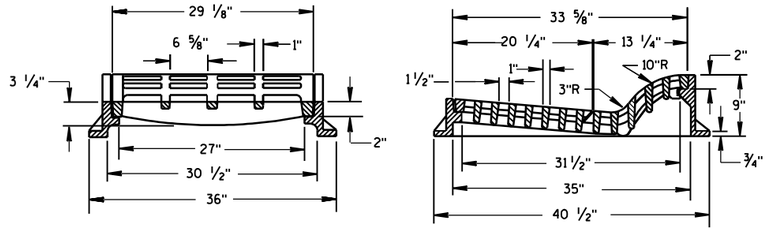
CHIEF ROADWAY DEVELOPMENT ENGINEER

S.D.D. 8 A 5-16b

6

S.D.D. 8 A 5-16b



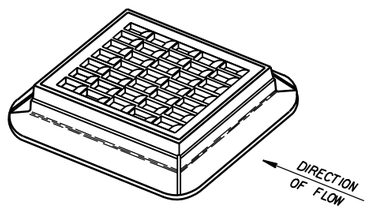


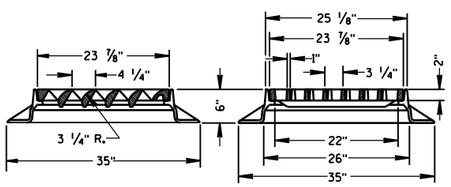
TYPE "F"

(APPROXIMATE WEIGHT 645 LBS.)

FRAME.....300 LBS.
GRATE..... 165 LBS.
GRATE..... 180 LBS.

USE WITH CONCRETE CURB & GUTTER, 36 INCH.

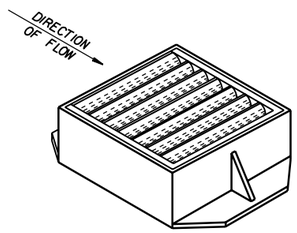


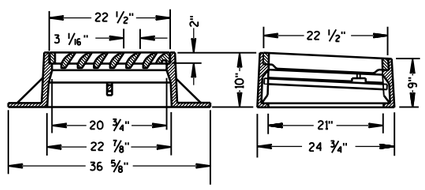


TYPE "S"

(APPROXIMATE WEIGHT 334 LBS.)

FRAME.....165 LBS.
GRATE..... 169 LBS.





TYPE "V"

(APPROXIMATE WEIGHT 405 LBS.)

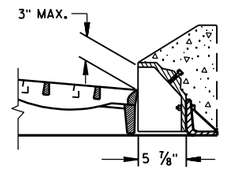
FRAME..... 270 LBS.
GRATE..... 130 LBS.
SAFETY BAR..... 5 LBS.

GENERAL NOTES

DETAILS OF CONSTRUCTION, MATERIALS AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS AND THE APPLICABLE SPECIAL PROVISIONS.

DETAIL DRAWINGS FOR PROPOSED ALTERNATE DESIGNS FOR INLET COVERS SHALL BE SUBMITTED TO THE ENGINEER FOR APPROVAL PROVIDING THAT SUCH ALTERNATE DESIGNS MAKE PROVISION FOR EQUIVALENT CAPACITY AND STRENGTH.

THE ACTUAL WEIGHT OF COVERS MAY VARY WITHIN 5 PERCENT, PLUS OR MINUS, OF THE APPROXIMATE WEIGHT.

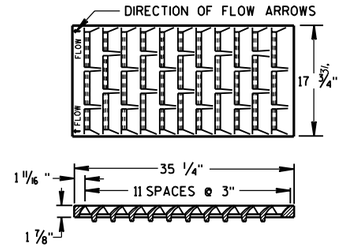


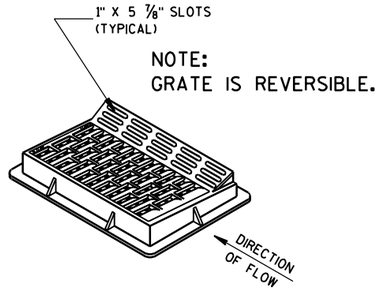
ALTERNATIVE CURB BOX FOR TYPE "HM" COVER

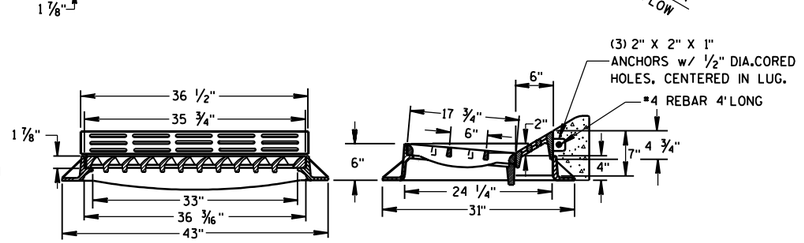
(APPROXIMATE WEIGHT 79 LBS.)
CURB BOX.....79 LBS.

USE WITH TYPES G & J CONCRETE CURB & GUTTER, 30 INCH
NOTED AS TYPE HM-GJ ON DRAINAGE TABLE

NOTE:
SPECIAL GRATE FOR THE
TYPE "H" COVER MAY ALSO BE
USED FOR THE TYPE "HM-GJ" COVER
NOTED AS TYPE HM-GJ-S ON DRAINAGE TABLE







TYPE "HM"

(APPROXIMATE WEIGHT 375 LBS.)
FRAME.....175 LBS.
GRATE.....138 LBS.
CURB BOX..... 62 LBS.

USE WITH CONCRETE CURB & GUTTER, 36 INCH.

NOTE:
SPECIAL GRATE FOR THE
TYPE "H" COVER MAY ALSO BE
USED FOR THE TYPE "HM" COVER
NOTED AS TYPE HM-S ON DRAINAGE TABLE

INLET COVERS
TYPE F, HM, HM-S, S, V, HM-GJ, & HM-GJ-S

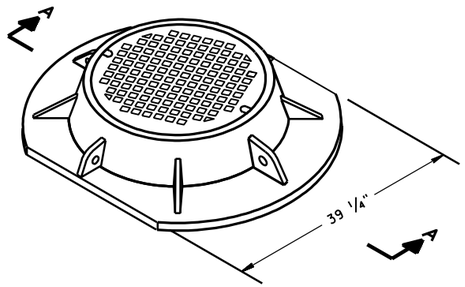
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

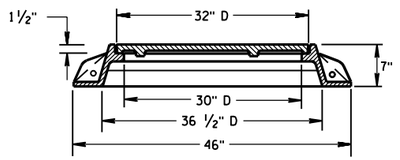
APPROVED
10/4/99
DATE

CHIEF ROADWAY DEVELOPMENT ENGINEER

FHWA

S.D.D. 8 A 5-16c



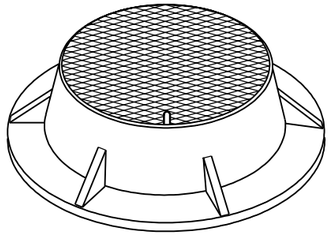


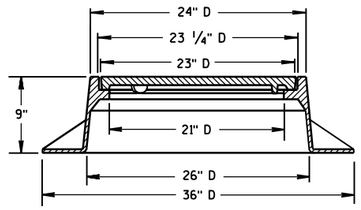
SECTION A-A

TYPE "K"

(APPROXIMATE WEIGHT 415 LBS.)

FRAME.....210 LBS.
LID.....205 LBS.

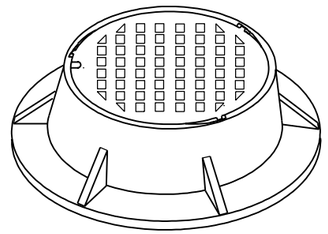


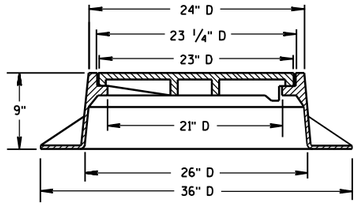


TYPE "J"

(APPROXIMATE WEIGHT 250 LBS.)

FRAME.....135 LBS.
LID.....115 LBS.





TYPE "J" SPECIAL

TYPE "B" NON-ROCKING SELF-SEAL LID

(APPROXIMATE WEIGHT 245 LBS.)

FRAME.....145 LBS.
LID.....100 LBS.

(NOTED AS TYPE J-S ON THE DRAINAGE TABLE)

GENERAL NOTES

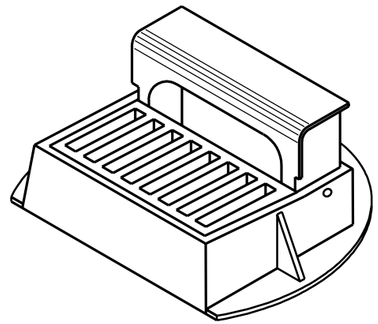
DETAILS OF CONSTRUCTION, MATERIALS AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS AND THE APPLICABLE SPECIAL PROVISIONS.

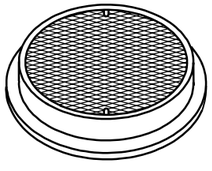
DETAIL DRAWINGS FOR PROPOSED ALTERNATE DESIGNS FOR MANHOLE COVERS SHALL BE SUBMITTED TO THE ENGINEER FOR APPROVAL PROVIDING THAT SUCH ALTERNATE DESIGNS MAKE PROVISION FOR EQUIVALENT CAPACITY AND STRENGTH.

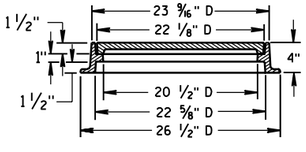
ROUND FRAMES AND COVERS SHALL HAVE CONTINUOUSLY MACHINED BEARING SURFACES TO PREVENT ROCKING AND RATTLING.

THE ACTUAL WEIGHT OF COVERS MAY VARY WITHIN 5 PERCENT, PLUS OR MINUS, OF THE APPROXIMATE WEIGHT.

(1) MANUFACTURER MAY PROVIDE ADDITIONAL SEALS OR GASKETS.



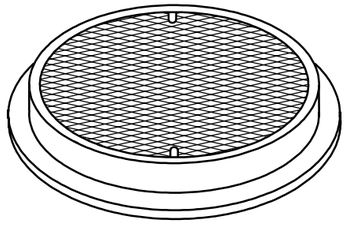


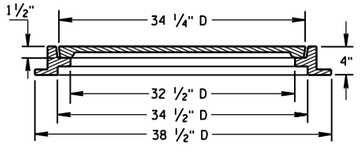


TYPE "L"

(APPROXIMATE WEIGHT 145 LBS.)

FRAME.....75"
LID.....70"

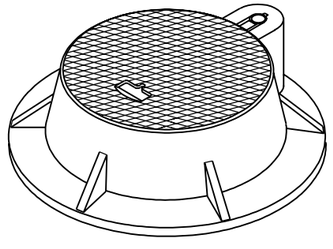


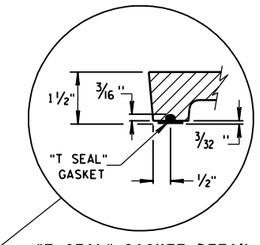


TYPE "M"

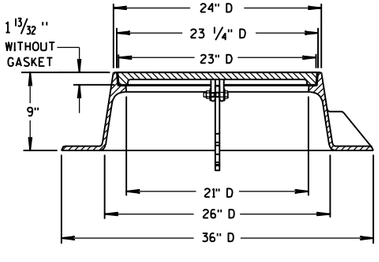
(APPROXIMATE WEIGHT 385 LBS.)

FRAME..... 125"
LID..... 260"





"T SEAL" GASKET DETAIL



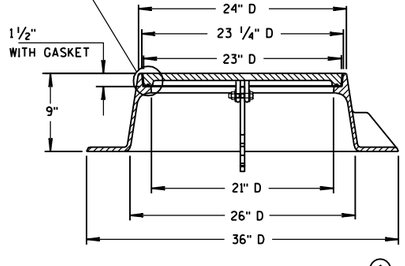
TYPE "J" HINGED

LID WITHOUT "T SEAL" GASKET

(APPROXIMATE WEIGHT 310 LBS.)

FRAME.....190 LBS.
LID.....120 LBS.

(NOTED AS TYPE J-H ON THE DRAINAGE TABLE)



TYPE "J" HINGED-SPECIAL (1)

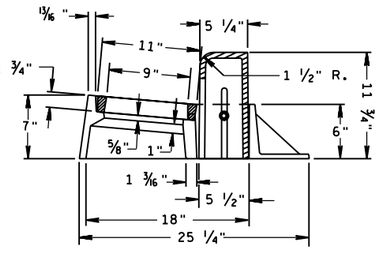
LID WITH "T SEAL" GASKET

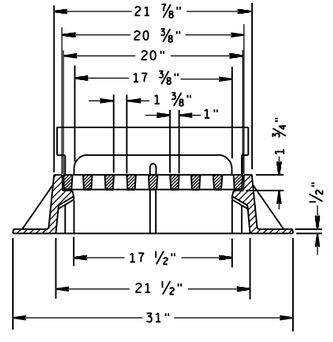
(APPROXIMATE WEIGHT 310 LBS.)

FRAME.....190 LBS.
LID.....120 LBS.

(NOTED AS TYPE J-S-H ON THE DRAINAGE TABLE)

CURB BOX ADJUSTABLE 4" TO 10"





INLET COVER TYPE "Z"

(APPROXIMATE WEIGHT 340 LBS.)

FRAME.....198 LBS.
GRATE..... 50 LBS.
CURB BOX..... 92 LBS.

INLET COVER, TYPE Z
MANHOLE COVERS, TYPE
K, J, J-S, J-H, J-H-S, L & M

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
4-29-05
DATE
FHWA

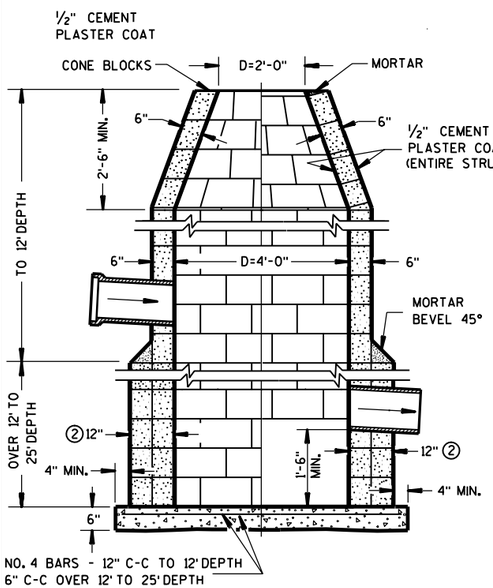
CHIEF ROADWAY DEVELOPMENT ENGINEER

6

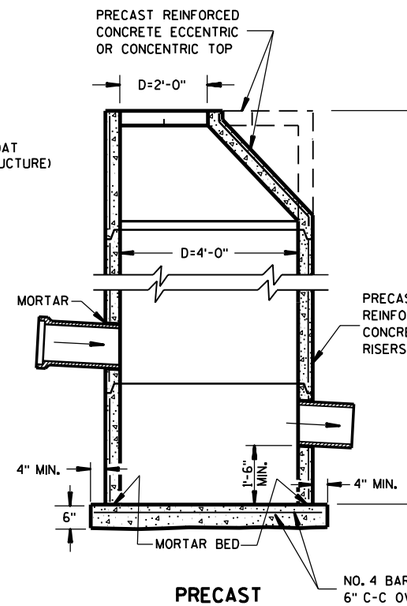
S.D.D. 8 A 5-17d

6

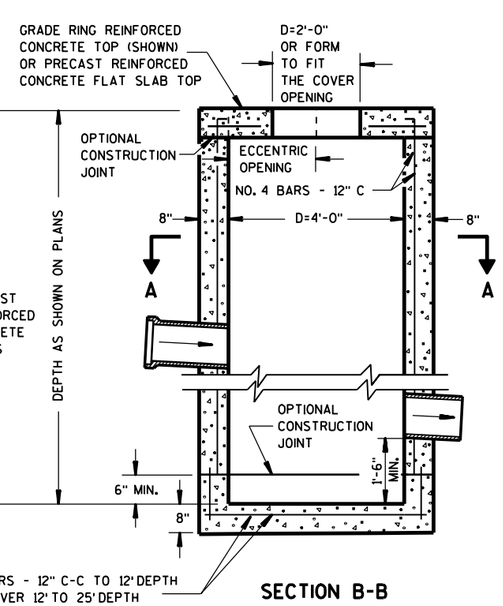
S.D.D. 8 A 5-17d



CONCRETE BLOCK

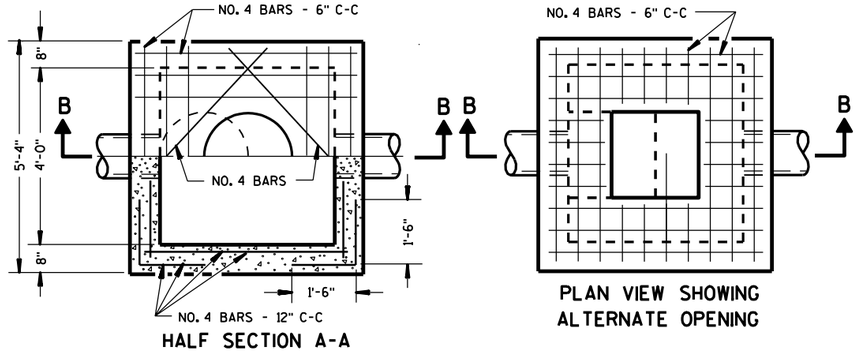


PRECAST REINFORCED CONCRETE



SECTION B-B
REINFORCED CONCRETE

CATCH BASINS, TYPE 1



HALF SECTION A-A

PLAN VIEW SHOWING ALTERNATE OPENING

GENERAL NOTES

DETAILS OF CONSTRUCTION, MATERIALS AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS AND THE APPLICABLE SPECIAL PROVISIONS.

DETAILED DRAWINGS FOR PROPOSED ALTERNATE DESIGNS FOR UNDERGROUND DRAINAGE STRUCTURES SHALL BE SUBMITTED TO THE ENGINEER FOR APPROVAL PROVIDING THAT SUCH ALTERNATE DESIGNS MAKE PROVISION FOR EQUIVALENT CAPACITY AND STRENGTH.

ALL DRAINAGE STRUCTURES ARE DESIGNATED ON THE PLANS AS "MANHOLES 1-C", "CATCH BASINS 1-B", "INLETS 3-H", ETC. THE FIRST DIGIT DESIGNATES THE MASONRY PORTION OF THE STRUCTURE, AND THE FOLLOWING LETTER DESIGNATES THE TYPE OF COVER TO BE USED TO COMPRISE THE COMPLETE UNIT.

PRECAST REINFORCED BASES SHALL BE PLACED ON A BED OF MATERIAL AT LEAST 6 INCHES IN DEPTH, WHICH MEETS THE REQUIREMENTS OF GRANULAR BACKFILL. THIS BEDDING SHALL BE COMPACTED AND PROVIDE UNIFORM SUPPORT FOR THE ENTIRE AREA OF THE BASE.

PRECAST REINFORCED CONCRETE CONE TOPS (ECCENTRIC OR CONCENTRIC) OR PRECAST REINFORCED CONCRETE FLAT SLAB TOPS MAY BE USED ON CONCRETE BLOCK STRUCTURES. THE CONE TOPS SHALL BE INSTALLED ON A BED OF MORTAR.

ECCENTRIC CONE TOPS MAY BE USED ON ALL STRUCTURES, AND CONCENTRIC CONE TOPS SHALL BE USED ONLY ON STRUCTURES 5 FEET OR LESS IN DEPTH, UNLESS OTHERWISE DIRECTED BY THE ENGINEER.

STEPS MEETING THE FOLLOWING REQUIREMENTS SHALL BE INSTALLED IN ALL STRUCTURES OVER 5 FEET IN DEPTH: 16 INCH C-C MAXIMUM SPACING; PROJECT A MINIMUM CLEAR DISTANCE OF 4 INCHES FROM THE WALL AT THE POINT OF EMBEDMENT; MINIMUM LENGTH OF 10 INCHES; MINIMUM WALL EMBEDMENT OF 3 INCHES. FERROUS METAL STEPS NOT PAINTED OR TREATED TO RESIST CORROSION SHALL HAVE A MINIMUM CROSS SECTIONAL DIMENSION OF 1 INCH.

STEPS OF APPROVED POLYPROPYLENE PLASTIC COATED REINFORCEMENT BAR ARE ACCEPTABLE.

CERTIFICATION SHALL BE PROVIDED THAT INSTALLED STEPS WHEN TESTED IN ACCORDANCE WITH SECTION 10 OF AASHTO T280 CAN WITHSTAND A VERTICAL LOAD OF 800 LBS. AND A HORIZONTAL LOAD OF 400 LBS.

ALL BAR STEEL REINFORCEMENT SHALL BE EMBEDDED 2 INCHES CLEAR UNLESS OTHERWISE SHOWN OR NOTED.

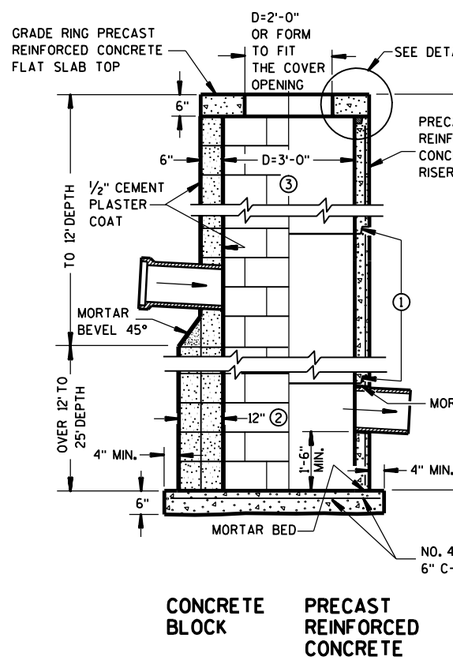
ALL PRECAST INLET UNITS SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF AASHTO DESIGNATION M199.

THE "PRECAST REINFORCED CONCRETE FLAT SLAB TOP" OPTION IS REQUIRED ON CATCH BASINS, TYPE 1 WHEN 2' X 3' OPENING INLET COVERS ARE REQUIRED.

① PRECAST REINFORCED CONCRETE RISERS SHALL BE PLACED WITH THE TONGUE DOWN WHEN GRADE RINGS ARE USED FOR THE SLAB TOP.

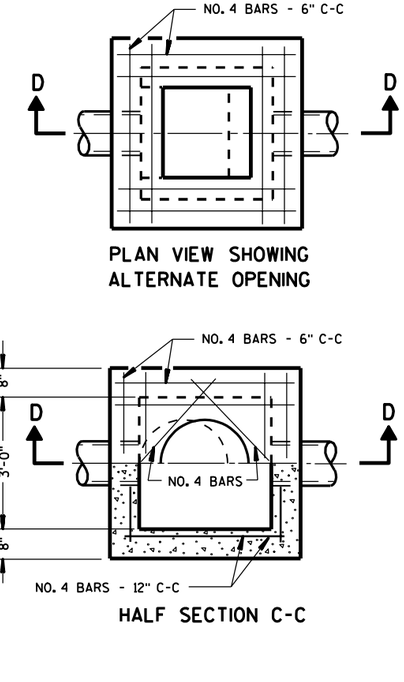
② 2 COURSES 6" BLOCK.

③ WHEN THE CONNECTING PIPES ARE 24" OR LARGER THE PRECAST CATCH BASIN MAY BE INCREASED TO 42" DIA.



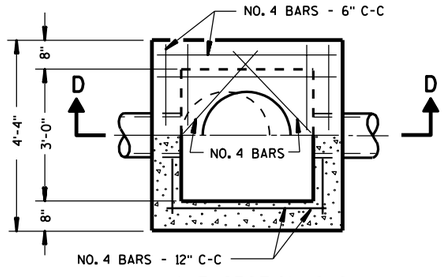
CONCRETE BLOCK

PRECAST REINFORCED CONCRETE

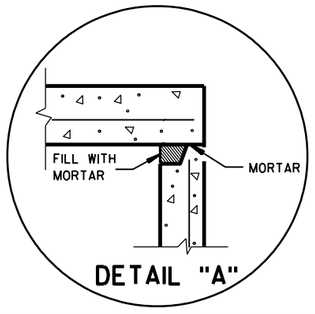


SECTION D-D
REINFORCED CONCRETE

CATCH BASINS, TYPE 2



HALF SECTION C-C



DETAIL "A"

CATCH BASINS TYPE 1 & 2

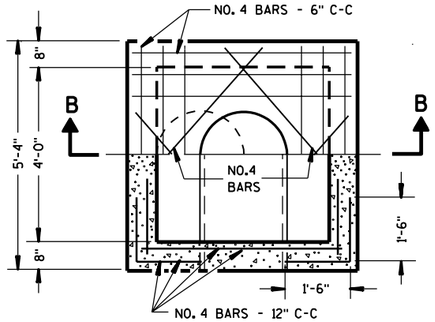
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
6/9/99
DATE

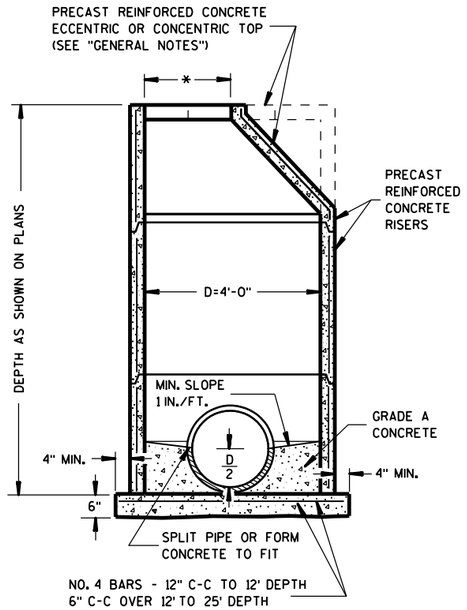
CHIEF ROADWAY DEVELOPMENT ENGINEER

FHWA

S.D.D. 8 A 6-4



HALF SECTION A-A



PRECAST REINFORCED CONCRETE

GENERAL NOTES

DETAILS OF CONSTRUCTION, MATERIALS AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS AND THE APPLICABLE SPECIAL PROVISIONS.

DETAILED DRAWINGS FOR PROPOSED ALTERNATE DESIGNS FOR UNDERGROUND DRAINAGE STRUCTURES SHALL BE SUBMITTED TO THE ENGINEER FOR APPROVAL PROVIDING THAT SUCH ALTERNATE DESIGNS MAKE PROVISION FOR EQUIVALENT CAPACITY AND STRENGTH.

ALL DRAINAGE STRUCTURES ARE DESIGNATED ON THE PLANS AS "MANHOLES 1-C", "CATCH BASINS 1-B", "INLETS 3-H", ETC. THE FIRST DIGIT DESIGNATES THE MASONRY PORTION OF THE STRUCTURE, AND THE FOLLOWING LETTER DESIGNATES THE TYPE OF COVER TO BE USED TO COMPRISE THE COMPLETE UNIT.

PRECAST REINFORCED BASES SHALL BE PLACED ON A BED OF MATERIAL AT LEAST 6 INCHES IN DEPTH, WHICH MEETS THE REQUIREMENTS OF GRANULAR BACKFILL. THIS BEDDING SHALL BE COMPACTED AND PROVIDE UNIFORM SUPPORT FOR THE ENTIRE AREA OF THE BASE.

PRECAST REINFORCED CONE TOPS (ECCENTRIC OR CONCENTRIC) MAY BE USED ON CONCRETE BLOCK STRUCTURES. THE CONE TOPS SHALL BE INSTALLED ON A BED OF MORTAR.

ECCENTRIC CONE TOPS MAY BE USED ON ALL STRUCTURES, AND CONCENTRIC CONE TOPS SHALL BE USED ONLY ON STRUCTURES 5 FEET OR LESS IN DEPTH, UNLESS OTHERWISE DIRECTED BY THE ENGINEER.

STEPS CONFORMING TO AASHTO M 199 SHALL BE INSTALLED IN ALL STRUCTURES OVER 5 FEET IN DEPTH.

SOLID ALUMINUM STEPS SHALL HAVE A MINIMUM CROSS SECTIONAL DIMENSION OF 0.75 INCH. ALUMINUM SURFACES TO BE EMBEDDED IN CONCRETE SHALL BE GIVEN ONE COAT OF SUITABLE QUALITY PAINT, SUCH AS ZINC CHROMATE PRIMER CONFORMING TO FEDERAL SPECIFICATION TT-P-645 OR EQUIVALENT.

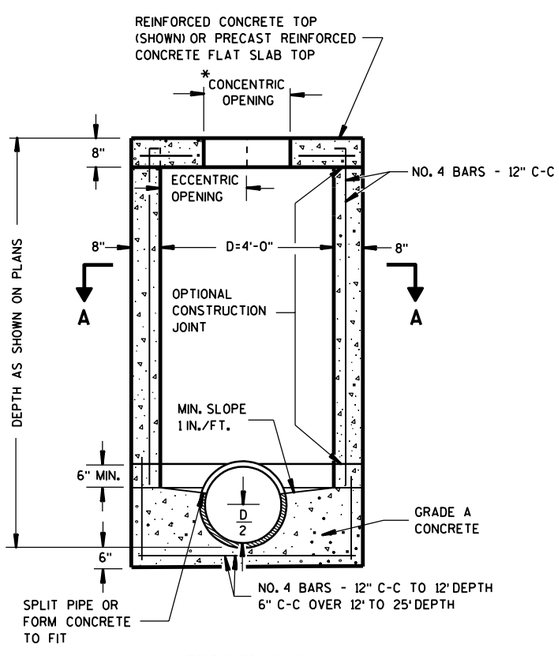
ALL BAR STEEL REINFORCEMENT SHALL BE EMBEDDED 2 INCHES CLEAR UNLESS OTHERWISE SHOWN OR NOTED.

PRECAST REINFORCED CONCRETE RISERS MAY BE PLACED WITH TONGUE UP OR DOWN.

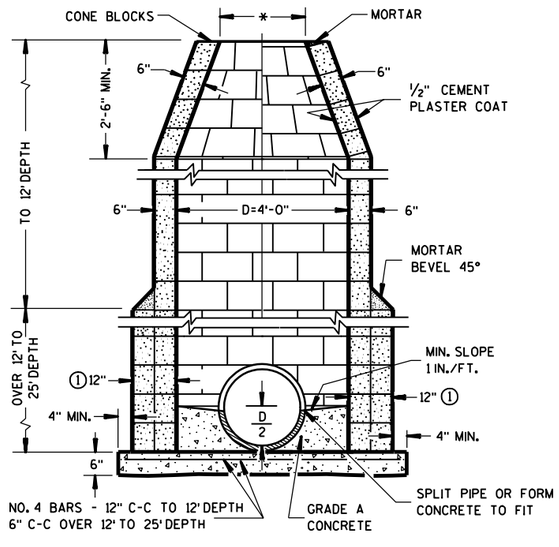
ALL PRECAST INLET UNITS AND MANHOLES SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF AASHTO DESIGNATION M 199.

* USE 2'-0" DIAMETER OPENING WITH TYPE "C", "L" AND "J" COVERS, OR 3'-0" DIAMETER WITH TYPE "K" AND "M" COVERS.

① 2 COURSES 6" BLOCK.



SECTION B-B
REINFORCED CONCRETE



CONCRETE BLOCK

MANHOLES TYPE 1

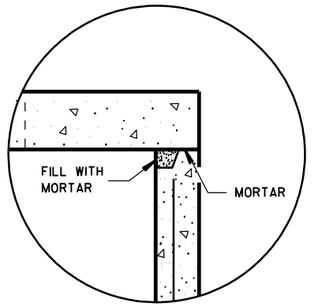
MANHOLES TYPE 1	
STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION	
APPROVED 9/9/05 DATE	/S/ Jerry H. Zogg ROADWAY STANDARDS DEVELOPMENT ENGINEER
FHWA	

6

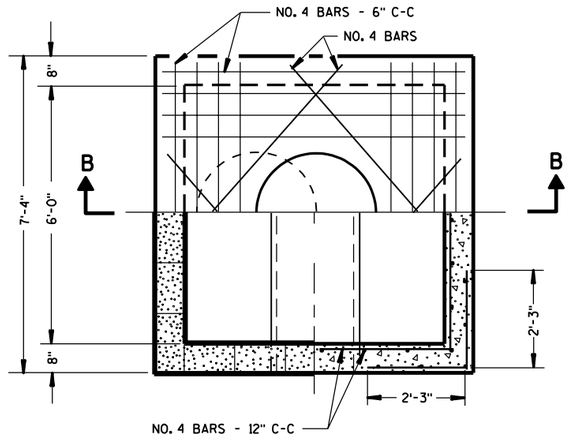
S.D.D. 8 B 6-4

6

S.D.D. 8 B 6-4



DETAIL "A"



HALF SECTION A-A

GENERAL NOTES

DETAILS OF CONSTRUCTION, MATERIALS AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS AND THE APPLICABLE SPECIAL PROVISIONS.

DETAILED DRAWINGS FOR PROPOSED ALTERNATE DESIGNS FOR UNDERGROUND DRAINAGE STRUCTURES SHALL BE SUBMITTED TO THE ENGINEER FOR APPROVAL PROVIDING THAT SUCH ALTERNATE DESIGNS MAKE PROVISION FOR EQUIVALENT CAPACITY AND STRENGTH.

ALL DRAINAGE STRUCTURES ARE DESIGNATED ON THE PLANS AS "MANHOLES 1-C", "CATCH BASINS 1-B", "INLETS 3-H", ETC. THE FIRST DIGIT DESIGNATES THE MASONRY PORTION OF THE STRUCTURE, AND THE FOLLOWING LETTER DESIGNATES THE TYPE OF COVER TO BE USED TO COMPRISE THE COMPLETE UNIT.

PRECAST REINFORCED BASES SHALL BE PLACED ON A BED OF MATERIAL AT LEAST 6 INCHES IN DEPTH, WHICH MEETS THE REQUIREMENTS OF GRANULAR BACKFILL. THIS BEDDING SHALL BE COMPACTED AND PROVIDE UNIFORM SUPPORT FOR THE ENTIRE AREA OF THE BASE.

STEPS CONFORMING TO AASHTO M 199 SHALL BE INSTALLED IN ALL STRUCTURES OVER 5 FEET IN DEPTH.

SOLID ALUMINUM STEPS SHALL HAVE A MINIMUM CROSS SECTIONAL DIMENSION OF 0.75 INCH. ALUMINUM SURFACES TO BE EMBEDDED IN CONCRETE SHALL BE GIVEN ONE COAT OF SUITABLE QUALITY PAINT, SUCH AS ZINC CHROMATE PRIMER CONFORMING TO FEDERAL SPECIFICATION TT-P-645 OR EQUIVALENT.

ALL BAR STEEL REINFORCEMENT SHALL BE EMBEDDED 2 INCHES CLEAR UNLESS OTHERWISE SHOWN OR NOTED.

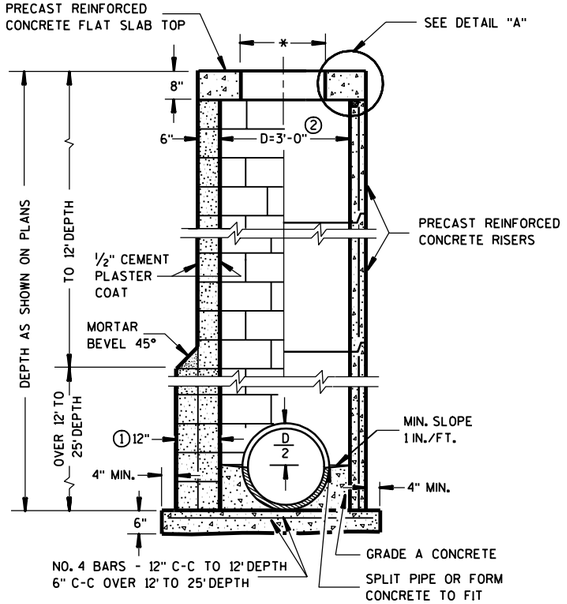
PRECAST REINFORCED CONCRETE RISERS MAY BE PLACED WITH TONGUE UP OR DOWN.

ALL PRECAST INLET UNITS AND MANHOLES SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF AASHTO DESIGNATION M 199.

* USE 2'-0" DIAMETER OPENING WITH TYPE "C", "L" AND "J" COVERS, OR 3'-0" DIAMETER WITH TYPE "K" AND "M" COVERS.

① 2 COURSES 6" BLOCK.

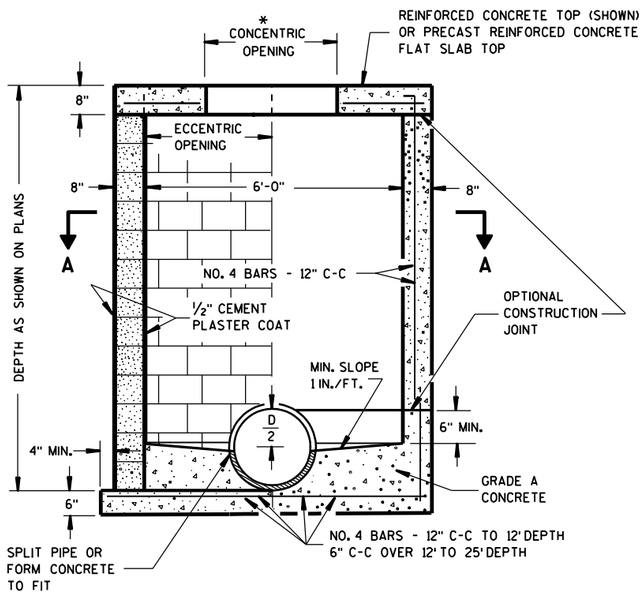
② WHEN CONNECTING PIPES ARE 24" OR LARGER THE PRECAST MANHOLES MAY BE INCREASED TO 42" DIAMETER.



CONCRETE BLOCK

② PRECAST REINFORCED CONCRETE

MANHOLES TYPE 2

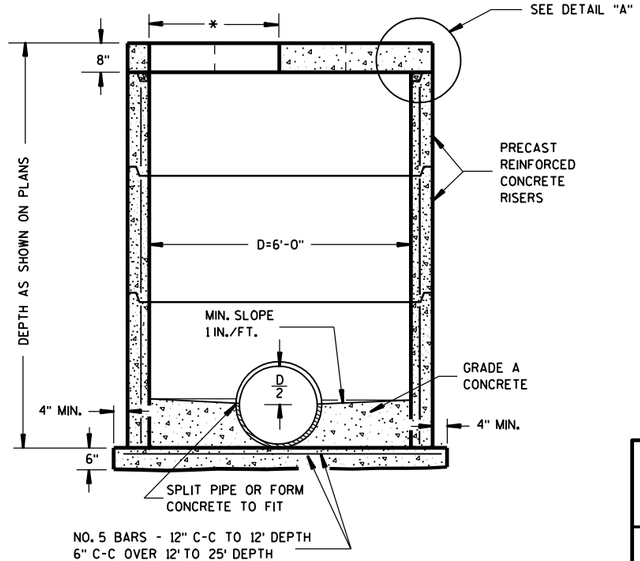


SECTION B-B

CONCRETE BLOCK

REINFORCED CONCRETE

MANHOLES TYPE 3



PRECAST REINFORCED CONCRETE

MANHOLES TYPE 2 & 3

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
9/9/05
DATE
FHWA

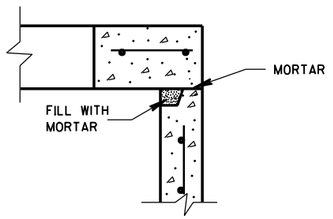
/S/ Jerry H. Zogg
ROADWAY STANDARDS DEVELOPMENT ENGINEER

6

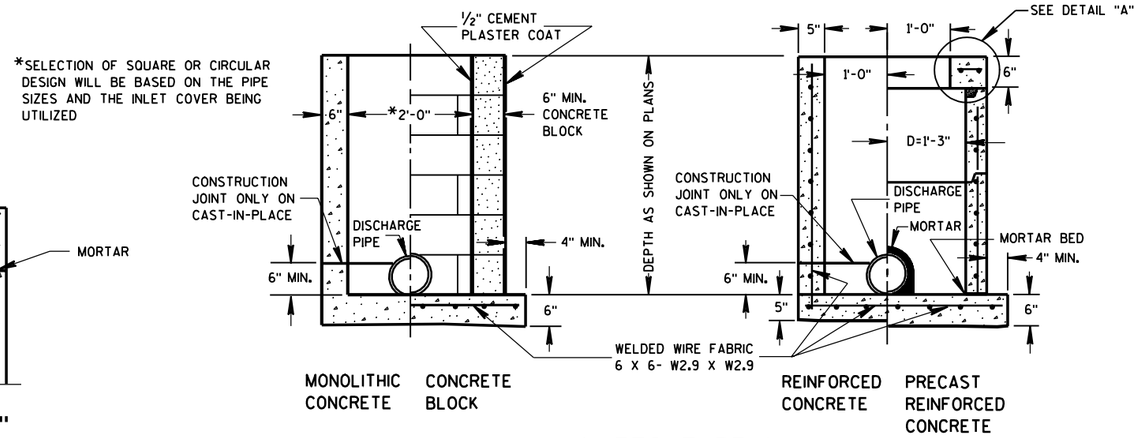
S.D.D. 8 B 7-4

6

S.D.D. 8 B 7-4



DETAIL "A"



INLETS TYPE 1

GENERAL NOTES

DETAILS OF CONSTRUCTION, MATERIALS AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS AND THE APPLICABLE SPECIAL PROVISIONS.

DETAILED DRAWINGS FOR PROPOSED ALTERNATE DESIGNS FOR UNDERGROUND DRAINAGE STRUCTURES SHALL BE SUBMITTED TO THE ENGINEER FOR APPROVAL PROVIDING THAT SUCH ALTERNATE DESIGNS MAKE PROVISION FOR EQUIVALENT CAPACITY AND STRENGTH.

ALL PRECAST INLET UNITS SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF AASHTO DESIGNATION M 199.

ALL DRAINAGE STRUCTURES ARE DESIGNATED ON THE PLANS AS "MANHOLES 1-C", "CATCH BASINS 1-B", "INLETS 3-H", ETC. THE FIRST DIGIT DESIGNATES THE MASONRY PORTION OF THE STRUCTURE, AND THE FOLLOWING LETTER DESIGNATES THE TYPE OF COVER TO BE USED TO COMPRISE THE COMPLETE UNIT.

PRECAST REINFORCED BASES SHALL BE PLACED ON A BED OF MATERIAL AT LEAST 6 INCHES IN DEPTH, WHICH MEETS THE REQUIREMENTS OF GRANULAR BACKFILL. THIS BEDDING SHALL BE COMPACTED AND PROVIDE UNIFORM SUPPORT FOR THE ENTIRE AREA OF THE BASE.

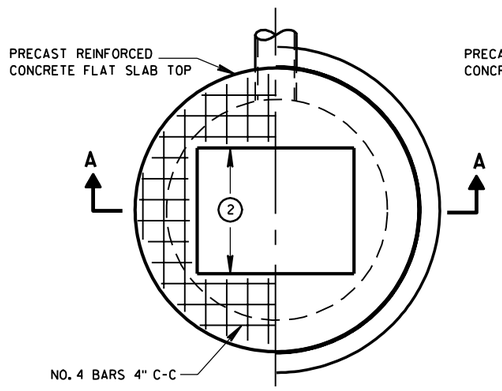
PRECAST REINFORCED CONCRETE FLAT SLAB TOPS MAY BE USED ON THE STRUCTURES. THE TOPS SHALL BE INSTALLED ON A BED OF MORTAR.

ALL BAR STEEL REINFORCEMENT SHALL BE EMBEDDED 2 INCHES CLEAR UNLESS OTHERWISE SHOWN OR NOTED.

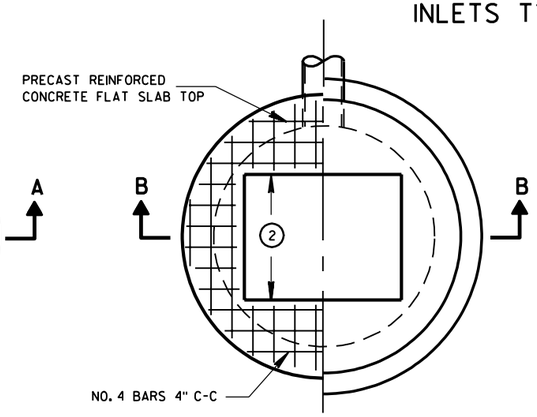
PRECAST REINFORCED CONCRETE RISERS SHALL BE PLACED WITH TONGUE DOWN.

(1) USE 2'-6" OPENING FOR TYPE 2 INLETS, 3'-0" OPENING FOR TYPE 3 INLETS, AND 2'-11" FOR TYPE 4 INLETS.

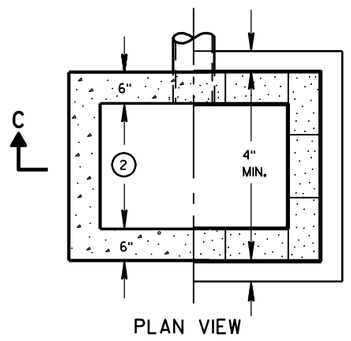
(2) USE 2'-0" OPENING FOR TYPE 1, 2 & 3 INLETS, 2'-6½" OPENING FOR TYPE 4 INLETS.



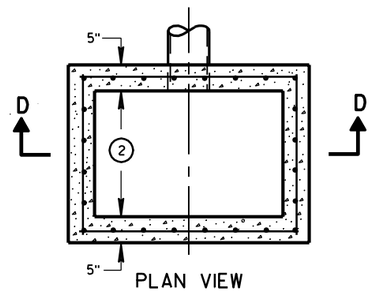
PLAN VIEW



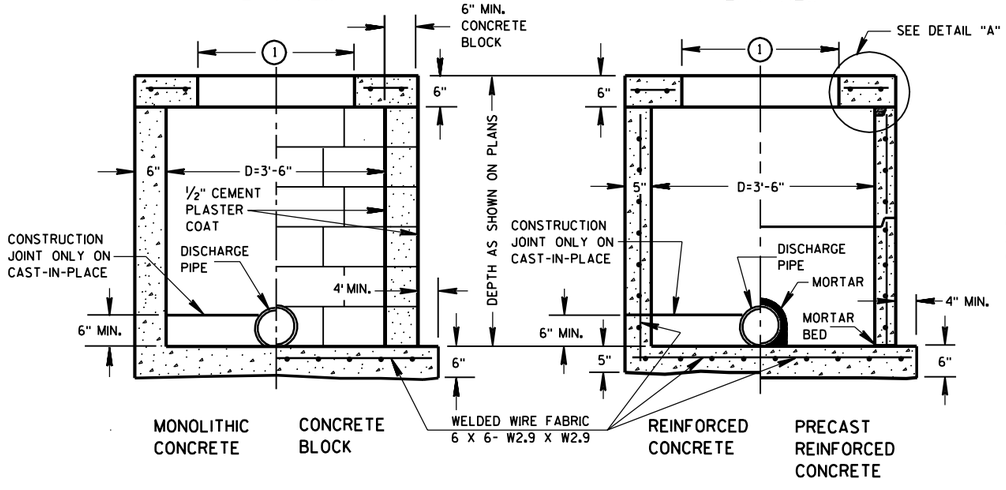
PLAN VIEW



PLAN VIEW

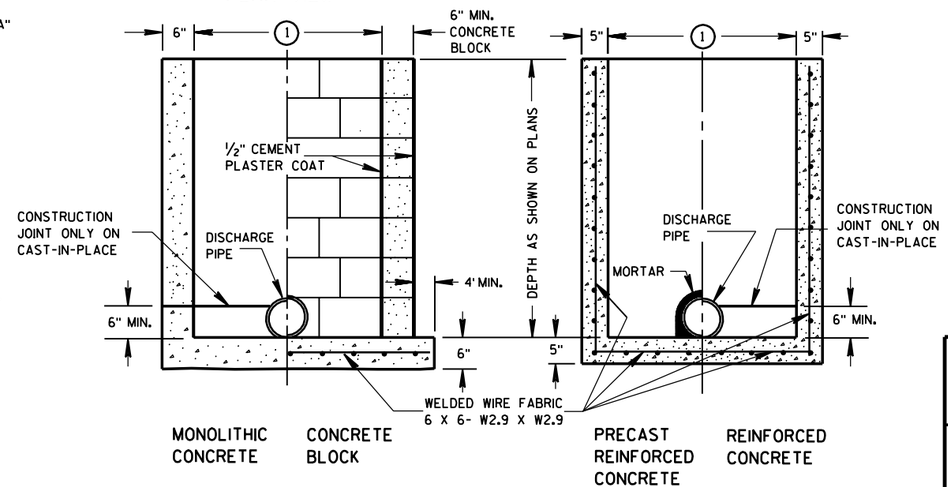


PLAN VIEW



SECTION A-A

SECTION B-B



SECTION C-C

SECTION D-D

INLETS TYPE 2, 3 & 4

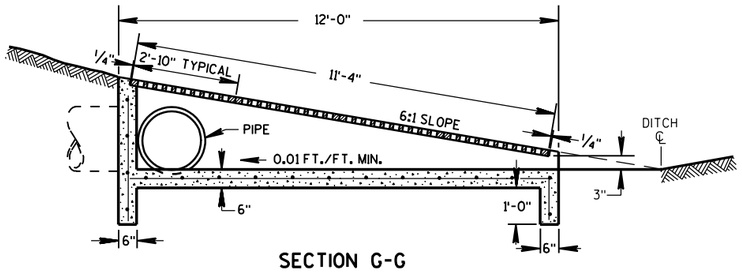
INLETS TYPE 1, 2, 3 & 4

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

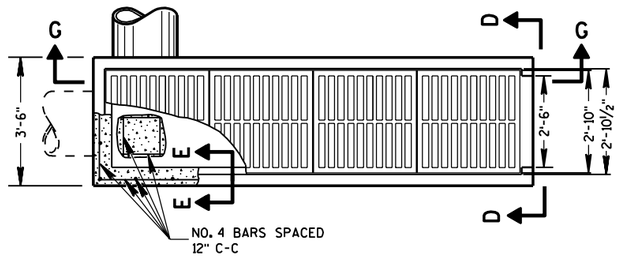
APPROVED
8/26/94
DATE
FHWA

CHIEF ROADWAY DEVELOPMENT ENGINEER

S.D.D. 8 C 1-5

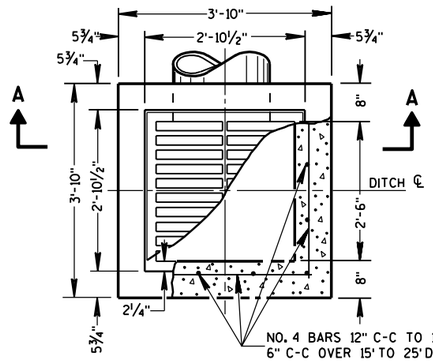


SECTION G-G

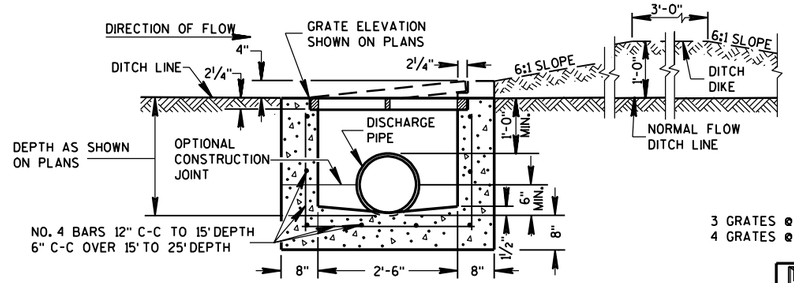


PLAN VIEW

REINFORCED CONCRETE INLET TYPE 11

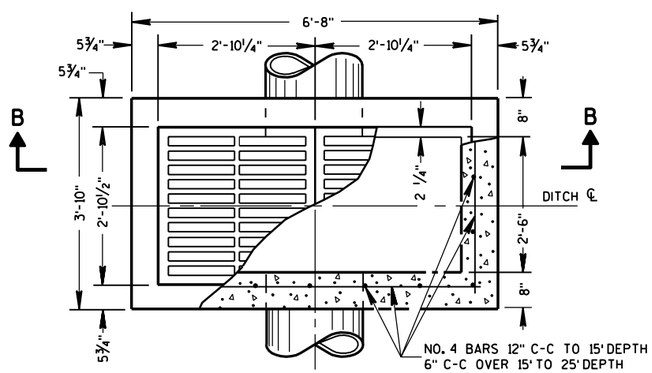


PLAN VIEW

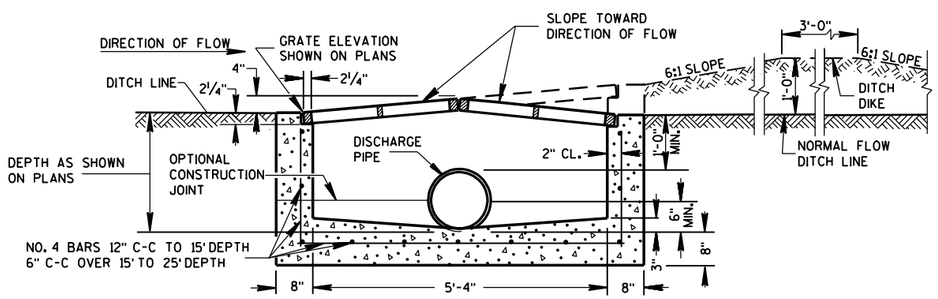


SECTION A-A

REINFORCED CONCRETE INLET TYPE 8



PLAN VIEW



SECTION B-B

REINFORCED CONCRETE INLET TYPE 9

GENERAL NOTES

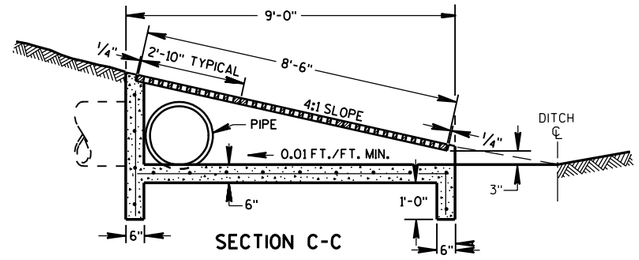
DETAILS OF CONSTRUCTION, MATERIALS AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS AND THE APPLICABLE SPECIAL PROVISIONS.

DETAILED DRAWINGS FOR PROPOSED ALTERNATE DESIGNS FOR INLETS WHICH MAY INCLUDE PRECAST REINFORCED CONCRETE INLETS, SHALL BE SUBMITTED TO THE ENGINEER FOR APPROVAL PROVIDING THAT SUCH ALTERNATE DESIGNS MAKE PROVISION FOR EQUIVALENT CAPACITY AND STRENGTH.

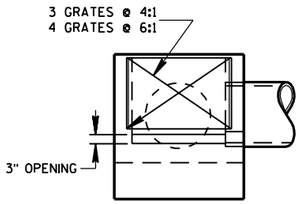
PRECAST REINFORCED CONCRETE INLET UNITS, IF USED, SHALL CONFORM TO THE REQUIREMENTS OF THE CATCH BASINS, MANHOLES AND INLETS SECTION OF THE STANDARD SPECIFICATIONS. UNLESS OTHERWISE AUTHORIZED IN WRITING BY THE ENGINEER, THE CONTRACTOR SHALL NOT ORDER AND DELIVER PRECAST INLET UNITS REQUIRED FOR THE PROJECT UNTIL A CORRECTED LIST OF SIZES IS FURNISHED BY THE ENGINEER.

ALL INLETS ARE DESIGNATED ON THE PLANS AS "INLETS, 8-MS", ETC. THIS DESIGNATION IS INTERPRETED TO MEAN THAT THE NUMBER, OR FIRST DIGIT DESIGNATES THE MASONRY PORTION OF THE STRUCTURE AND THE FOLLOWING LETTER DESIGNATES THE TYPE OF COVER OR IRON CASTING TO BE USED THEREWITH TO COMPRISE THE COMPLETE UNIT.

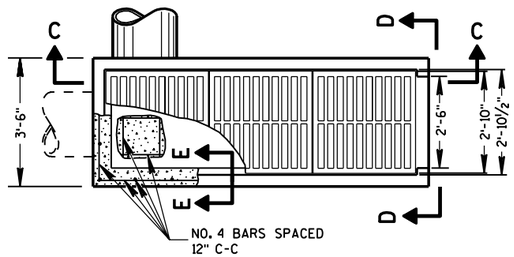
ALL BAR STEEL REINFORCEMENT SHALL BE EMBEDDED 2 INCHES CLEAR UNLESS OTHERWISE SHOWN OR NOTED.



SECTION C-C

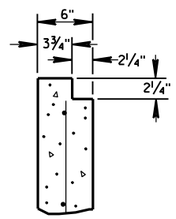


SECTION D-D



PLAN VIEW

REINFORCED CONCRETE INLET TYPE 10



SECTION E-E

INLETS TYPE 8, 9, 10 AND 11

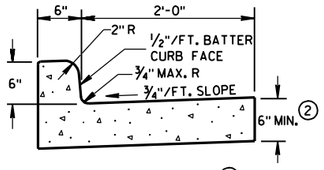
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
8/10/94
DATE

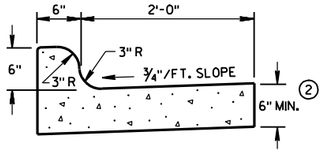
CHIEF ROADWAY DEVELOPMENT ENGINEER

FHWA

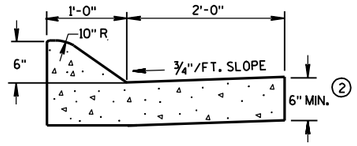
S.D.D. 8 C 5-2



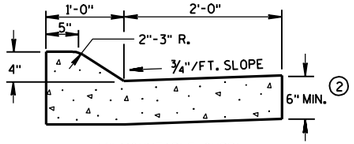
TYPES A & D (1)



TYPES K & L (1)



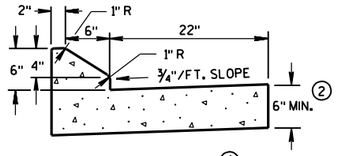
(6" MOUNTABLE CURB)



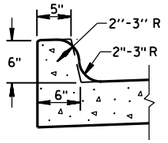
(4" MOUNTABLE CURB)

TYPES A & D (1)

CONCRETE CURB & GUTTER 36"

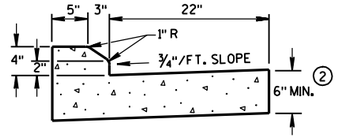


TYPES G & J (1)



OPTIONAL CURB SHAPE

FOR TYPES K & L (1)



4" MOUNTABLE CURB TYPES G & J (1)

CONCRETE CURB & GUTTER 30"

GENERAL NOTES

DETAILS OF CONSTRUCTION, MATERIALS AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE CONTRACT.

PAVEMENT TIES AND TIE BARS SHALL BE EPOXY COATED IN CONFORMANCE WITH SUBSECTION 505.2.6.2 OF THE STANDARD SPECIFICATIONS.

INTEGRAL CURB & GUTTER SHALL CONFORM TO THE DETAILS SHOWN FOR CONCRETE CURB & GUTTER INCLUDING THE TRANSVERSE GUTTER SLOPE. A LONGITUDINAL CONSTRUCTION JOINT IS NOT REQUIRED WITH INTEGRAL CURB AND GUTTER.

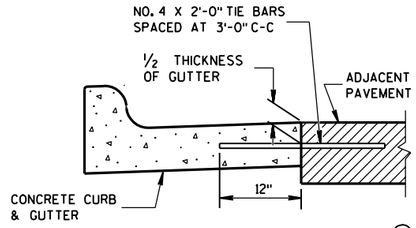
WHERE THE TRANSVERSE JOINTS IN THE PAVEMENT ARE REQUIRED TO BE SEALED, THE JOINTS IN THE INTEGRAL CURB AND GUTTER SHALL BE SEALED TO THE FACE OF CURB WITH THE SAME TYPE OF SEALANT. THE COST OF FURNISHING AND INSTALLING THIS SEALANT SHALL BE INCIDENTAL TO THE ITEM CONCRETE CURB AND GUTTER.

UNLESS OTHERWISE SHOWN ON THE TYPICAL CROSS SECTIONS, THE BASE COURSE AND UNCLASSIFIED EXCAVATION LIMITS ARE 2'-0" BEHIND THE BACK OF CURBS.

(1) TIE BARS ARE REQUIRED FOR CURB AND GUTTER TYPES A, G AND K.

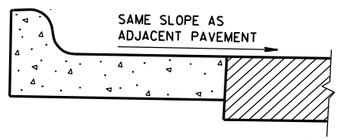
(2) THE BOTTOM OF CURB AND GUTTER MAY BE CONSTRUCTED EITHER LEVEL OR PARALLEL TO THE SLOPE OF THE SUBGRADE OR BASE COURSE PROVIDED A 6" MINIMUM GUTTER THICKNESS IS MAINTAINED.

(3) WHEN REVERSE SLOPE GUTTER IS REQUIRED, THE LOCATION(S) WILL BE SHOWN ELSEWHERE IN THE PLAN.



(1)

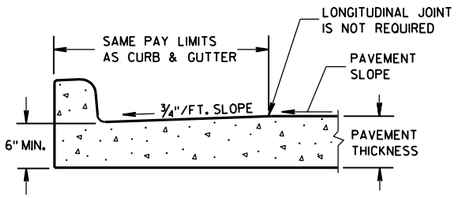
TYPICAL TIE BAR LOCATION



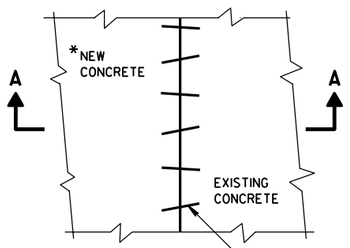
(3)

REVERSE SLOPE GUTTER

(TYPICAL FOR ALL CURB & GUTTER TYPES)

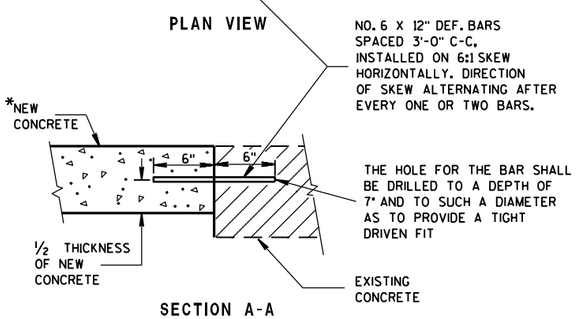


PARTIAL SECTION OF PAVEMENT WITH INTEGRAL CURB & GUTTER



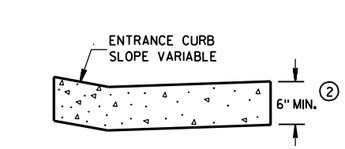
PLAN VIEW

*NEW CURB & GUTTER, SURFACE DRAINS, CONCRETE PAVEMENT OR OTHER NEW CONCRETE.



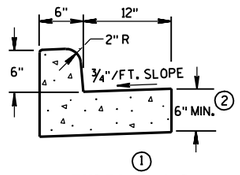
SECTION A-A

PAVEMENT TIES



DRIVEWAY ENTRANCE CURB

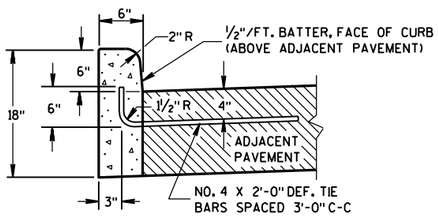
(WHEN DIRECTED BY THE ENGINEER)



(1)

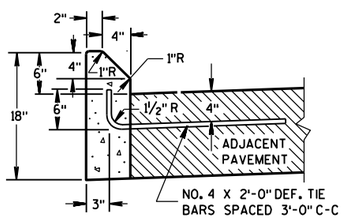
TYPES A & D

CONCRETE CURB & GUTTER 18"



(1)

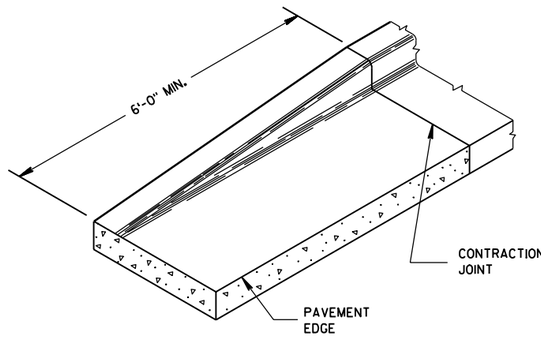
TYPES A & D



(1)

TYPES G & J

CONCRETE CURB

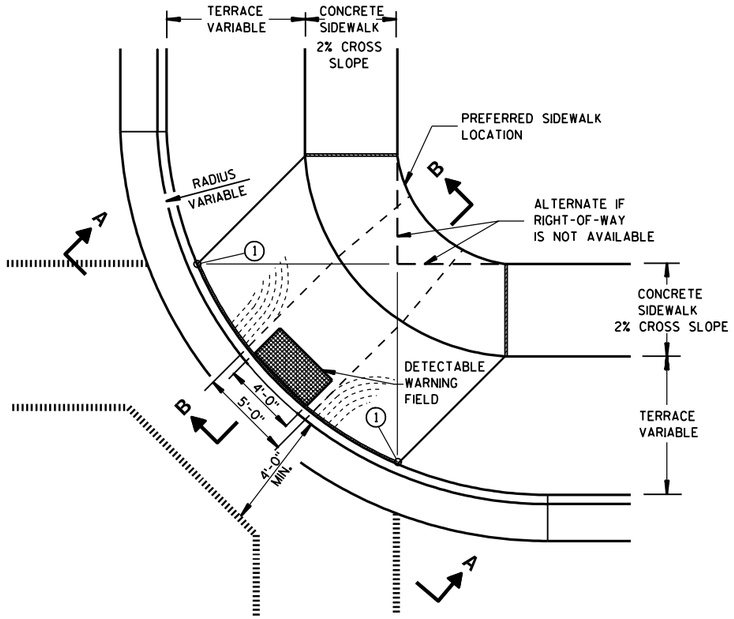


END SECTION CURB & GUTTER

CONCRETE CURB, CONCRETE CURB & GUTTER AND PAVEMENT TIES	
STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION	
APPROVED 6-7-06 DATE FHWA	/S/ Jerry H. Zogg ROADWAY STANDARDS DEVELOPMENT ENGINEER

6

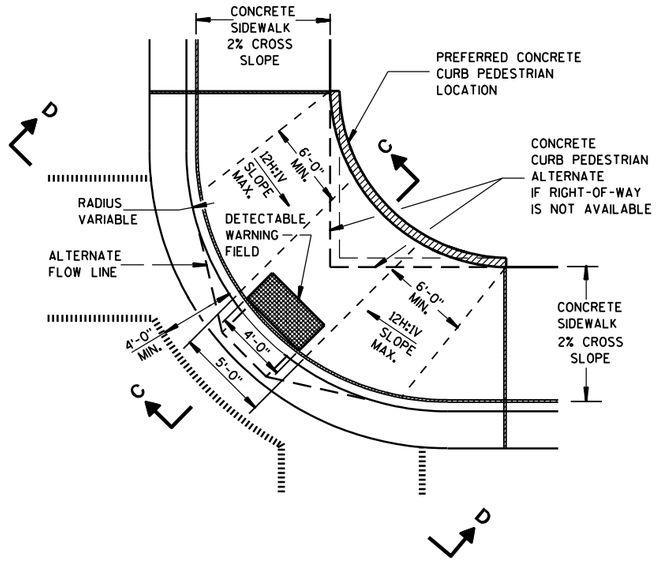
S.D.D. 8 D 1-14



PLAN VIEW

TYPE 1 RAMP

(CENTER OF CORNER RADIUS)



PLAN VIEW

TYPE 1-A RAMP

(NO TERRACE)

GENERAL NOTES

DETAILS OF CONSTRUCTION, MATERIALS AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS AND THE APPLICABLE SPECIAL PROVISIONS.

RAMPS SHALL BE BUILT AT 12H:1V OR FLATTER. WHEN NECESSARY, THE SIDEWALK ELEVATION MAY BE LOWERED TO MEET THE HIGH POINT ON THE RAMP.

TYPE 1 RAMPS SHALL HAVE A NORMAL SIDEWALK APRON AND CURB ON BOTH SIDES OF RAMP.

DETECTABLE WARNING FIELD SHALL BE MEASURED AND PAID BY THE SQUARE FOOT AS "CURB RAMP DETECTABLE WARNING FIELD". THE CONCRETE PEDESTRIAN CURB, IF NEEDED, SHALL BE MEASURED AND PAID BY THE LINEAL FOOT AS "CONCRETE CURB PEDESTRIAN". CONCRETE SIDEWALK IN THE CURB RAMP AREA SHALL BE MEASURED AND PAID BY THE SQUARE FOOT AS CONCRETE SIDEWALK, INCLUDING THE AREA UNDER THE DETECTABLE WARNING FIELD.

SELECT CURB RAMP DETECTABLE WARNING FIELD MATERIALS AND DEVICES FROM THE DEPARTMENT'S APPROVED MATERIALS LIST. THE COLOR OF THE DETECTABLE WARNING FIELD IS SPECIFIED ELSEWHERE AND IS INCIDENTAL TO THE BID ITEM OF "CURB RAMP DETECTABLE WARNING FIELD".

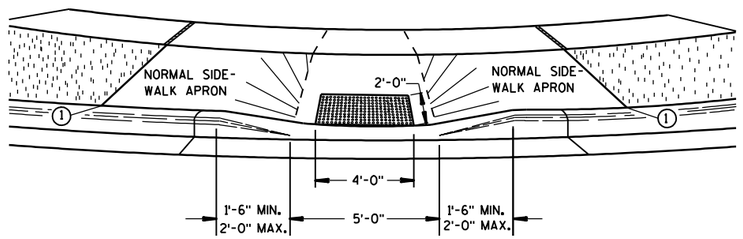
SURFACE TEXTURE OF THE RAMP SHALL BE OBTAINED BY COARSE BROOMING TRANSVERSE TO THE SLOPE OF THE RAMP.

(1) THIS POINT IS AN EXTENSION OF OUTSIDE EDGE OF APPROACHING SIDEWALK WHERE IT MEETS THE BACK OF CONCRETE CURB.

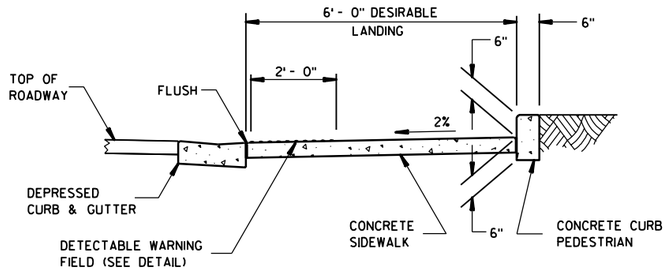
(2) GRADE CHANGE BETWEEN GUTTER FLAG SLOPE AND THE CURB RAMP SLOPE SHALL NOT EXCEED 11%. PROVIDE DRAINAGE AWAY FROM CURB RAMP AT GUTTER FLAG INTERFACE.

LEGEND

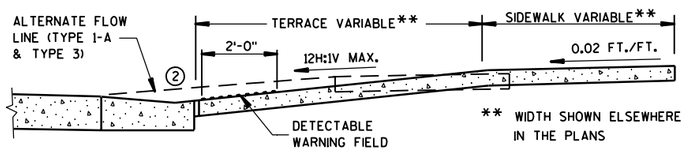
- ½" EXPANSION JOINT-SIDEWALK
- CONTRACTION JOINT FIELD LOCATED
- PAVEMENT MARKING CROSSWALK (WHITE)
- ALTERNATIVE LAYOUT



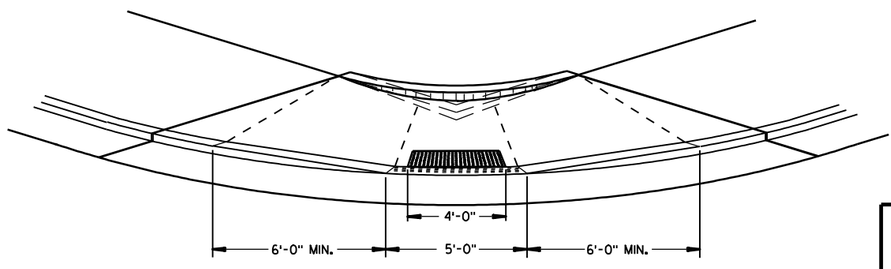
VIEW A-A



SECTION C-C



SECTION B-B



VIEW D-D

CURB RAMPS TYPES 1 AND 1-A

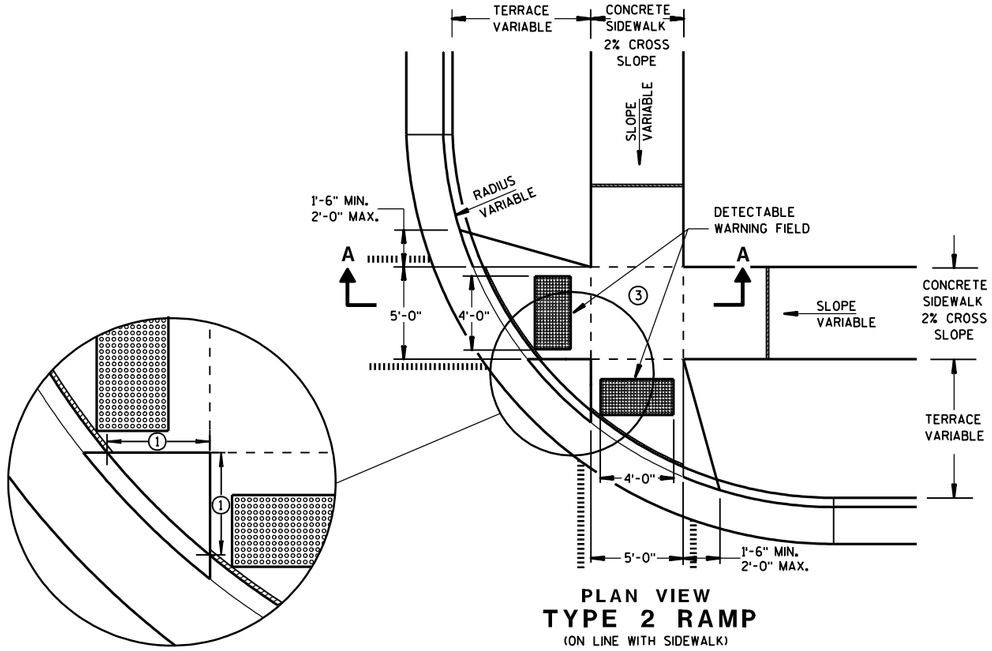
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

6

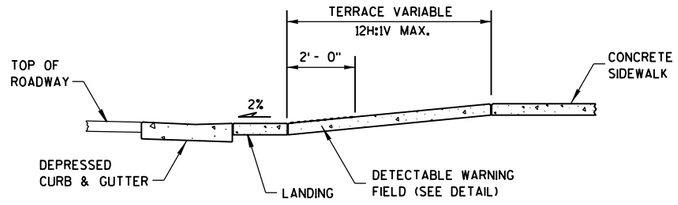
S.D.D. 8 D 5-11a

6

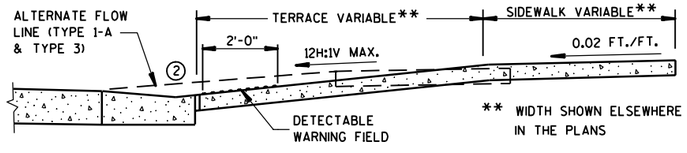
S.D.D. 8 D 5-11a



PLAN VIEW
TYPE 2 RAMP
(ON LINE WITH SIDEWALK)



SECTION A-A



SECTION B-B

GENERAL NOTES

USE THE TYPE 3 RAMP ONLY WHEN A TYPE 1 OR TYPE 2 CANNOT BE ACHIEVED BECAUSE OF FIELD CONDITIONS.

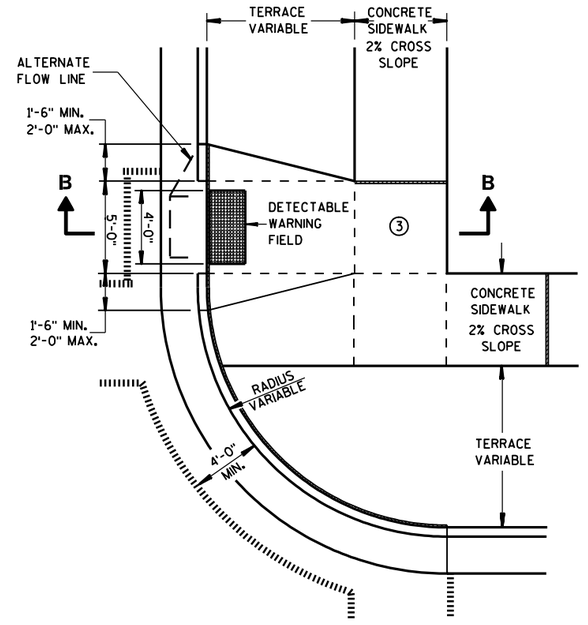
(1) WHEN THIS DISTANCE IS LESS THAN 6'-0" IT MAY BE DIFFICULT TO ACHIEVE A 12H:1V SLOPE, OR FLATTER, ON THE RAMP. REDUCE CURB HEIGHT IN TRIANGLE AREA TO ACHIEVE 12H:1V SLOPE, OR FLATTER, ON RAMP. 2" MINIMUM CURB HEIGHT.

(2) GRADE CHANGE BETWEEN GUTTER FLAG SLOPE AND THE CURB RAMP SLOPE SHALL NOT EXCEED 11%. PROVIDE DRAINAGE AWAY FROM CURB RAMP AT GUTTER FLAG INTERFACE.

(3) PROVIDE LANDING AT TOP OF RAMP WITH NO MORE THAN 2% SLOPE IN ANY DIRECTION.

LEGEND

- ½" EXPANSION JOINT-SIDEWALK
- CONTRACTION JOINT FIELD LOCATED
- PAVEMENT MARKING CROSSWALK (WHITE)
- ALTERNATIVE LAYOUT



PLAN VIEW
TYPE 3 RAMP
(OUTSIDE OF CROSSWALK AREA)

CURB RAMPS
TYPES 2 AND 3

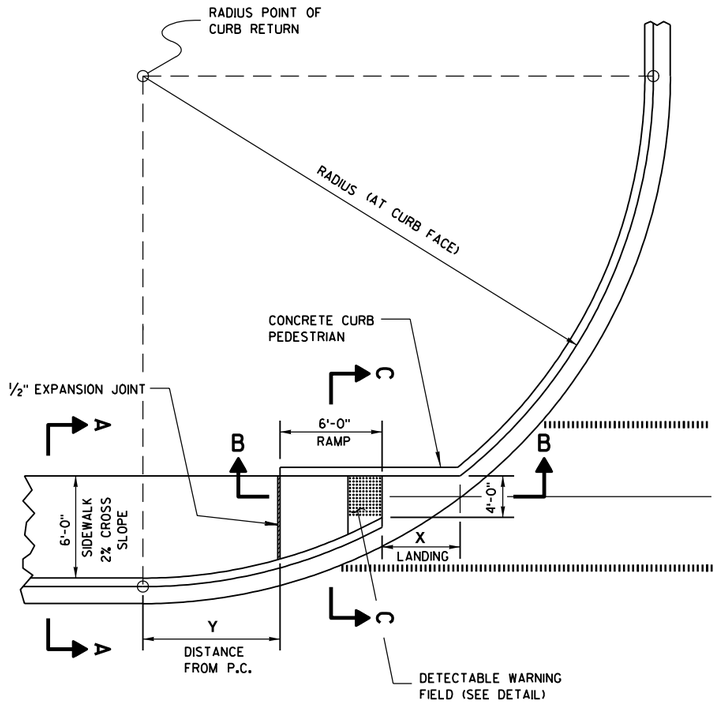
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

6

S.D.D. 8 D 5-11b

6

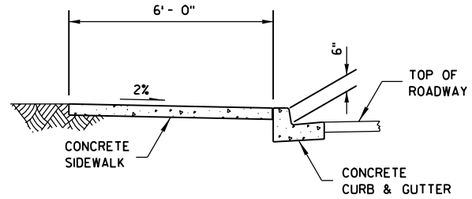
S.D.D. 8 D 5-11b



CURB RAMP TYPE 4A
PLAN VIEW

RADIUS (AT CURB FACE)	X	Y
20 FEET	6'-1¾"	2'-7¼"
30 FEET	7'-11¾"	4'-8¼"
40 FEET	9'-5¼"	6'-5"
50 FEET	10'-8¾"	7'-11¼"
60 FEET	11'-10¼"	9'-3½"

INTERMEDIATE RADII CAN BE INTERPOLATED



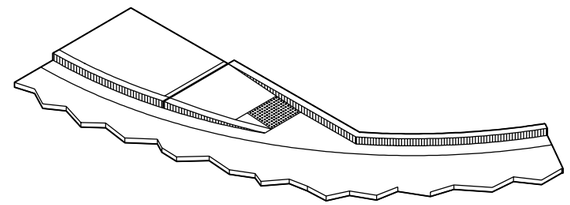
SECTION A-A

GENERAL NOTES

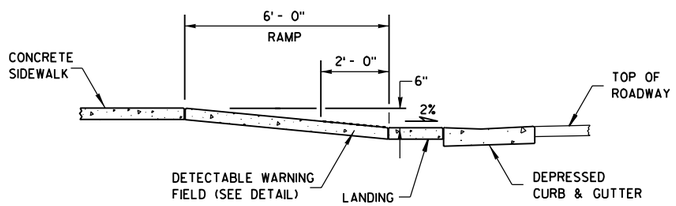
AVOID PLACING DRAINAGE STRUCTURES, JUNCTION BOXES OR OTHER OBSTRUCTIONS IN FRONT OF RAMP ACCESS AREAS.

RAMP SLOPES SHALL NOT BE STEEPER THAN 12:1.

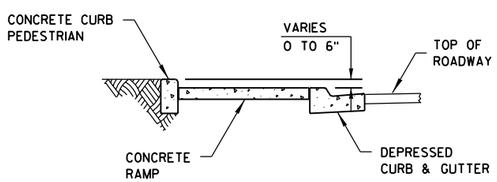
SIDEWALK CROSS SLOPE SHALL NOT EXCEED 2%.



ISOMETRIC VIEW



SECTION B-B



SECTION C-C

LEGEND

½" EXPANSION JOINT-SIDEWALK

CONTRACTION JOINT FIELD LOCATED

PAVEMENT MARKING CROSSWALK (WHITE)

CURB RAMPS
TYPE 4A

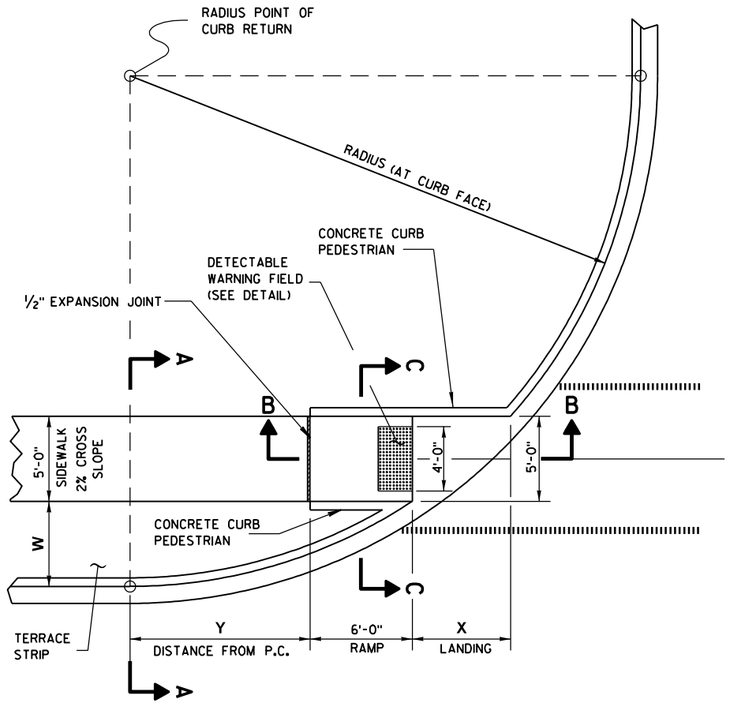
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

6

S.D.D. 8 D 5-11c

6

S.D.D. 8 D 5-11c



CURB RAMP TYPE 4B
PLAN VIEW

GENERAL NOTES

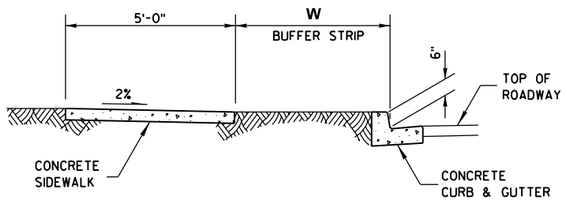
AVOID PLACING DRAINAGE STRUCTURES, JUNCTION BOXES OR OTHER OBSTRUCTIONS IN FRONT OF RAMP ACCESS AREAS.

RAMP SLOPES SHALL NOT BE STEEPER THAN 12:1.

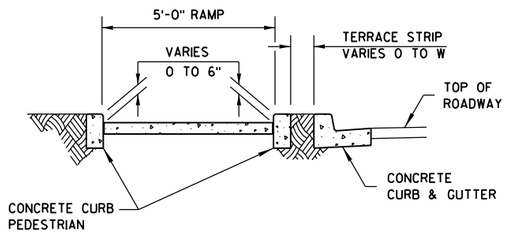
SIDEWALK CROSS SLOPE SHALL NOT EXCEED 2%.

RADIUS (AT CURB FACE)	W = 3'-0"		W = 4'-0"		W = 5'-0"		W = 6'-0"		W = 7'-0"	
	X	Y	X	Y	X	Y	X	Y	X	Y
20 FEET	5'-5½"	4'-6½"	4'-8½"	6'-0"	4'-1"	7'-2¾"	3'-7"	8'-3½"	3'-1½"	9'-2½"
30 FEET	7'-3¾"	7'-1"	6'-5½"	8'-11½"	5'-9¼"	10'-7"	5'-2½"	12'-0"	4'-8¾"	13'-3¼"
40 FEET	8'-9½"	9'-2½"	7'-10"	11'-5¼"	7'-1"	13'-4½"	6'-5¾"	15'-¾"	5'-11½"	16'-7¼"
50 FEET	10'-¾"	11'-¾"	9'-¼"	13'-7¼"	8'-2½"	15'-9½"	7'-6½"	17'-9"	6'-11¾"	19'-6¼"
60 FEET	11'-2½"	12'-8¾"	10'-¾"	15'-6½"	9'-2¼"	17'-11¾"	8'-5¾"	20'-1¾"	7'-10½"	22'-1½"
70 FEET	12'-2¾"	14'-3¼"	11'-¼"	17'-4"	10'-1"	19'-11¾"	9'-3¾"	22'-4¼"	8'-8¼"	24'-6¼"
80 FEET	13'-2"	15'-8½"	11'-10½"	18'-11¾"	10'-10¾"	21'-10"	10'-1"	24'-4¾"	9'-5"	26'-8¾"
90 FEET	14'- ½"	17'-½"	12'-8¼"	20'-6½"	11'-7¾"	23'-7"	10'-9¾"	26'-3¾"	10'-1¼"	28'-9½"
100 FEET	14'-10½"	18'-3¾"	13'-5½"	22'-0"	12'-4¼"	25'-2¾"	11'-5¾"	28'-1½"	10'-9"	30'-9"

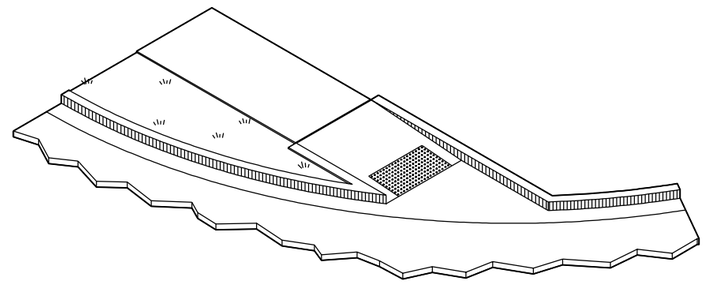
INTERMEDIATE RADII CAN BE INTERPOLATED



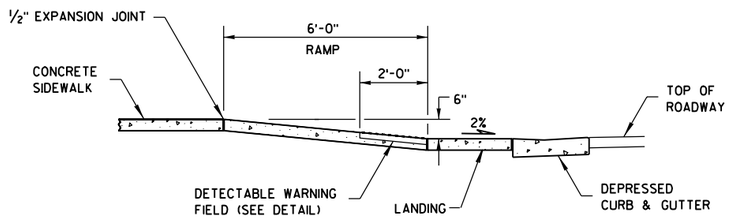
SECTION A-A



SECTION C-C



ISOMETRIC VIEW



SECTION B-B

LEGEND

½" EXPANSION JOINT-SIDEWALK

CONTRACTION JOINT FIELD LOCATED

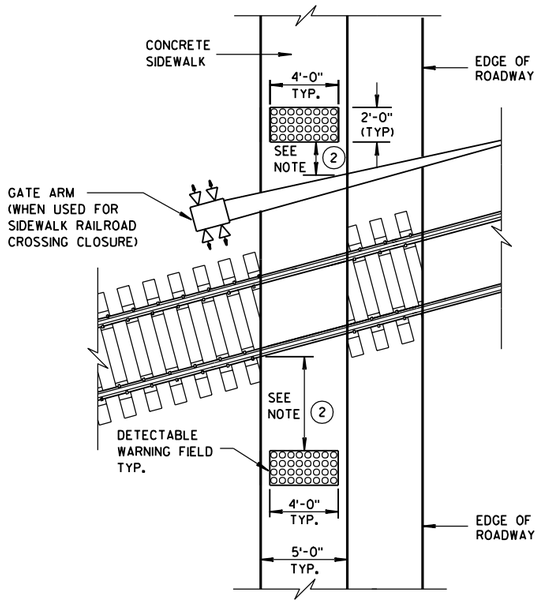
PAVEMENT MARKING CROSSWALK (WHITE)

CURB RAMPS
TYPE 4B

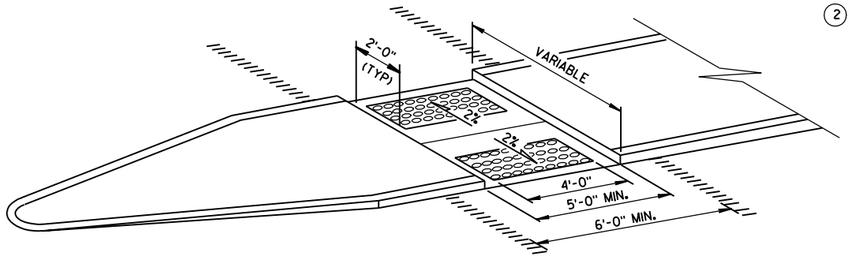
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

6

S.D.D. 8 D 5-11d



TYPE 8
DETECTABLE WARNINGS AT RAILROAD CROSSING



MEDIAN ISLAND
NON-ELEVATED CROSSING
TYPE 5

GENERAL NOTES

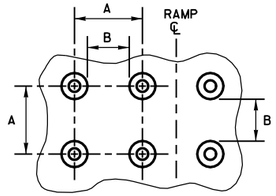
SIDEWALK CROSS SLOPE SHALL NOT EXCEED 2%.

(1) SLOPE SIDEWALK TOWARD LANDING AS SHOWN WHERE THERE IS NO TERRACE OR WHERE THE TERRACE WIDTH IS LESS THAN 6 FEET WIDE.

(2) THE EDGE OF THE DETECTABLE WARNING FIELD NEAREST TO A RAILROAD CROSSING SHALL BE 1.5 FEET ± 0.1' FROM THE FACE OF THE GATE ARM IF THE GATE ARM EXTENDS ACROSS THE SIDEWALK. WHERE THERE IS NO PEDESTRIAN GATE, THE EDGE OF THE DETECTABLE WARNING FIELD NEAREST TO THE RAILROAD CROSSING SHALL BE 15 FEET FROM THE NEAREST RAIL.

LEGEND

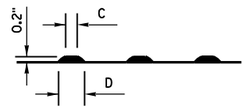
- ½" EXPANSION JOINT-SIDEWALK
- CONTRACTION JOINT FIELD LOCATED
- PAVEMENT MARKING CROSSWALK (WHITE)



PLAN VIEW

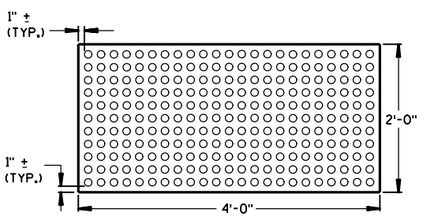
	MIN.	MAX.
A	1.6"	2.4"
B	0.65"	1.5"
C	*	*
D	0.9"	1.4"

* THE C DIMENSION IS 50% TO 65% OF THE D DIMENSION.

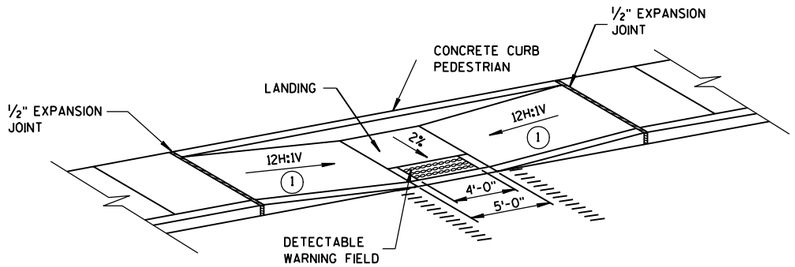


ELEVATION VIEW

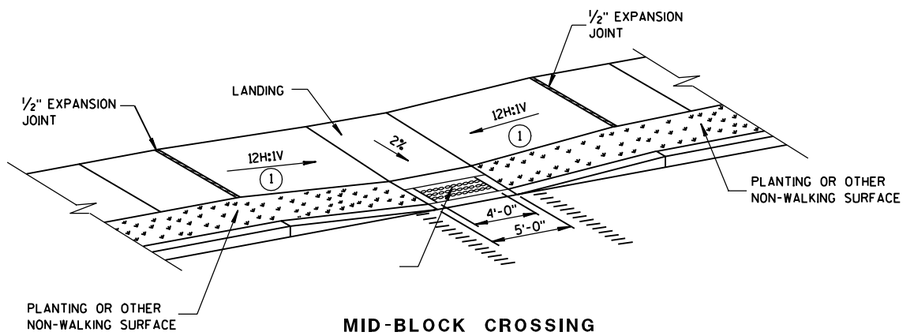
TRUNCATED DOMES
DETECTABLE WARNING PATTERN DETAIL



PLAN VIEW
DETECTABLE WARNING FIELD (TYPICAL)

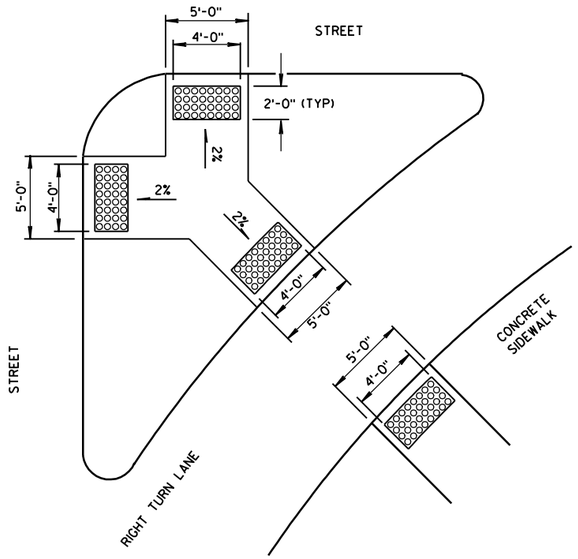


MID-BLOCK CROSSING
TYPE 7A



MID-BLOCK CROSSING
TYPE 7B

NOTE: THESE PARALLEL AND PARALLEL/PERPENDICULAR CURB RAMPS MAY BE USED AT INTERSECTIONS AND MID BLOCK LOCATIONS.



TYPE 6
DETECTABLE WARNING AT ISLANDS

CURB RAMPS
TYPES 5, 6, 7A, 7B & 8

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED

9/9/05 — DATE — FHWA

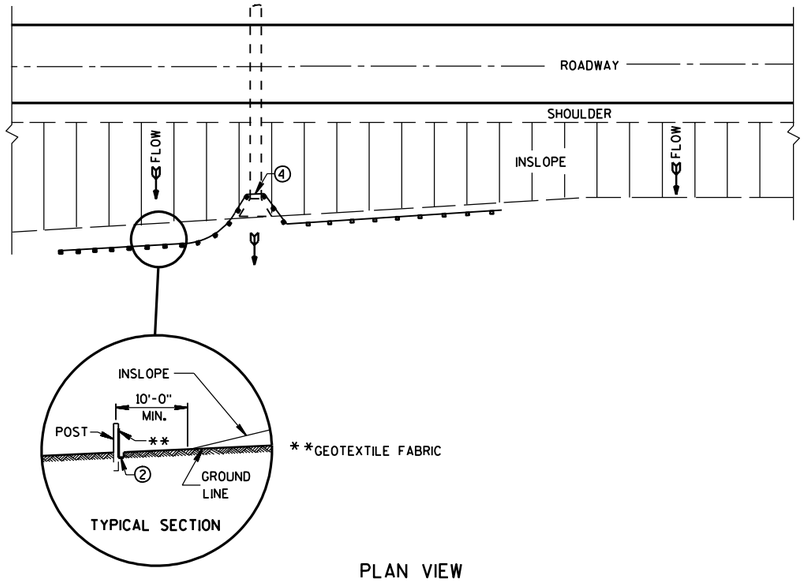
/S/ Jerry H. Zogg — ROADWAY STANDARDS DEVELOPMENT ENGINEER

6

S.D.D. 8 D 5-11e

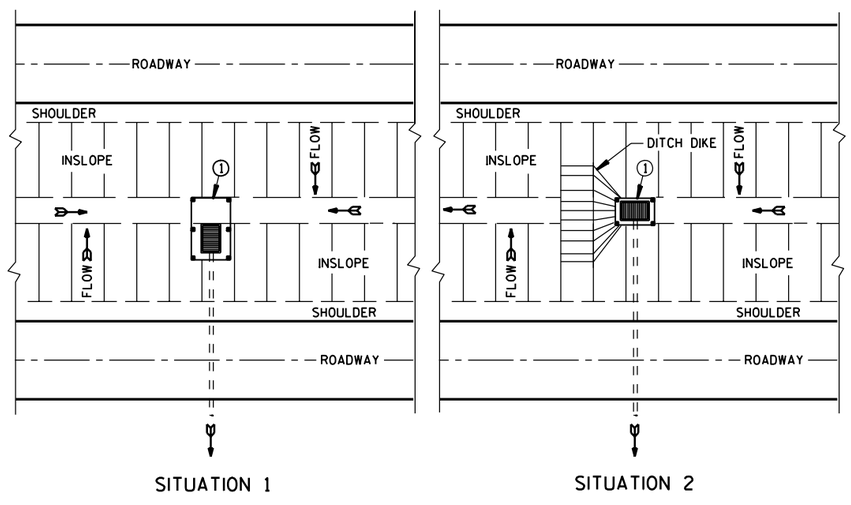
6

S.D.D. 8 D 5-11e



PLAN VIEW

TYPICAL APPLICATION OF SILT FENCE



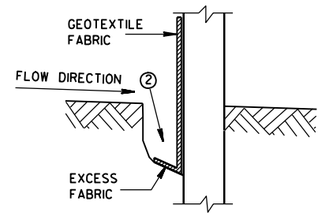
PLAN VIEW

SILT FENCE AT MEDIAN SURFACE DRAINS

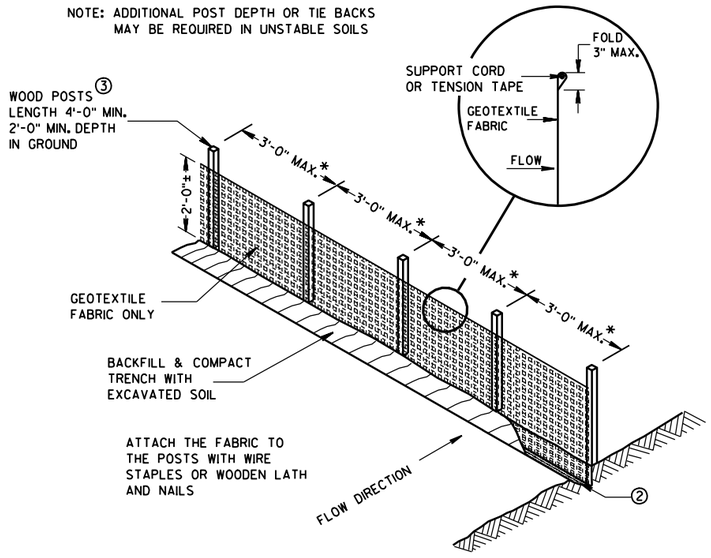
GENERAL NOTES

DETAILS OF CONSTRUCTION NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS AND APPLICABLE SPECIAL PROVISIONS.

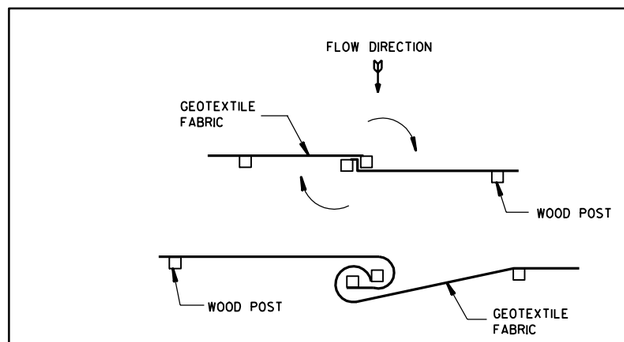
1. HORIZONTAL BRACE REQUIRED WITH 2" X 4" WOODEN FRAME OR EQUIVALENT AT TOP OF POSTS.
2. FOR MANUAL INSTALLATIONS THE TRENCH SHALL BE A MINIMUM OF 4" WIDE & 6" DEEP TO BURY AND ANCHOR THE GEOTEXTILE FABRIC. FOLD MATERIAL TO FIT TRENCH AND BACKFILL & COMPACT TRENCH WITH EXCAVATED SOIL.
3. WOOD POSTS SHALL BE A MINIMUM SIZE OF 1⅛" X 1⅛" OF OAK OR HICKORY.
4. SILT FENCE TO EXTEND ACROSS THE TOP OF THE PIPE.
5. CONSTRUCT SILT FENCE FROM A CONTINUOUS ROLL IF POSSIBLE BY CUTTING LENGTHS TO AVOID JOINTS. IF A JOINT IS NECESSARY USE ONE OF THE FOLLOWING TWO METHODS: A) OVERLAP THE END POSTS AND TWIST, OR ROTATE, AT LEAST 180 DEGREES, B) HOOK THE END OF EACH SILT FENCE LENGTH.



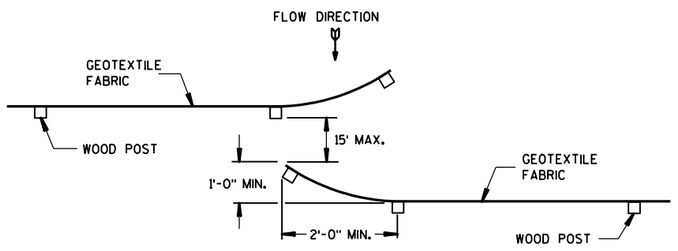
TRENCH DETAIL



SILT FENCE

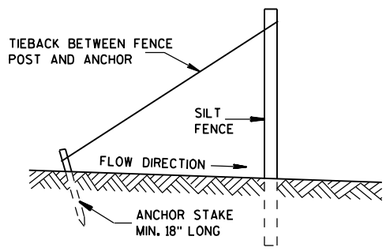


TWIST METHOD



HOOK METHOD

JOINING TWO LENGTHS OF SILT FENCE 5



SILT FENCE TIE BACK

(WHEN REQUIRED BY THE ENGINEER)

SILT FENCE

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

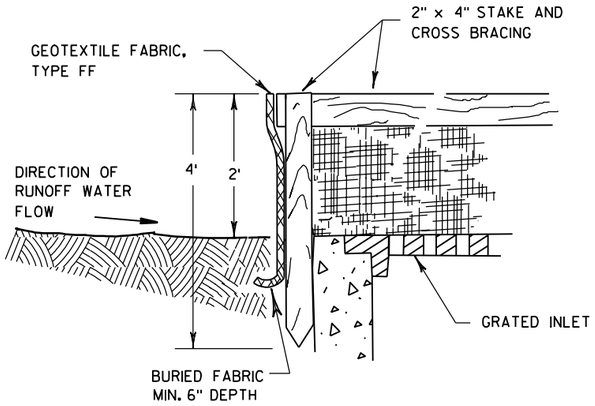
APPROVED
4-29-05
DATE
FHWA

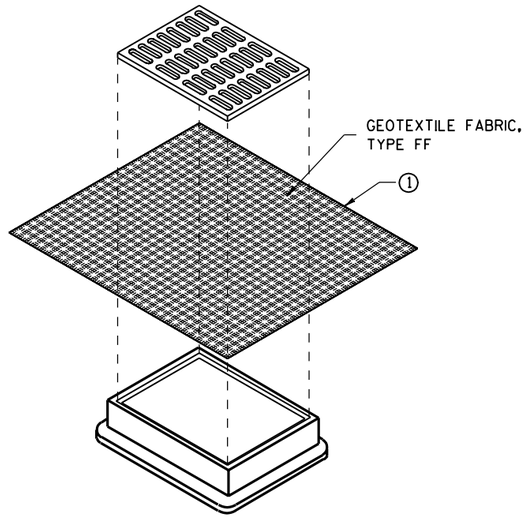
CHIEF ROADWAY DEVELOPMENT ENGINEER

6

S.D.D. 8 E 9-6

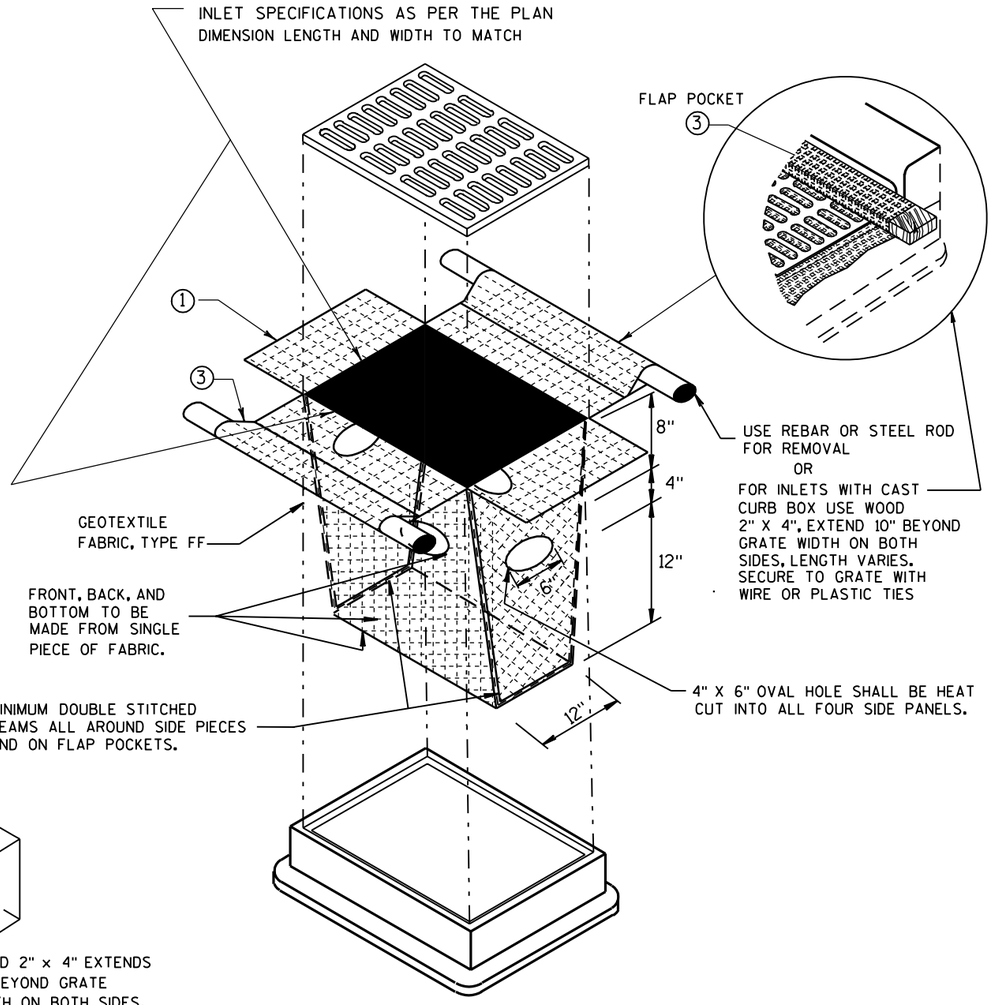
S.D.D. 8 E 9-6





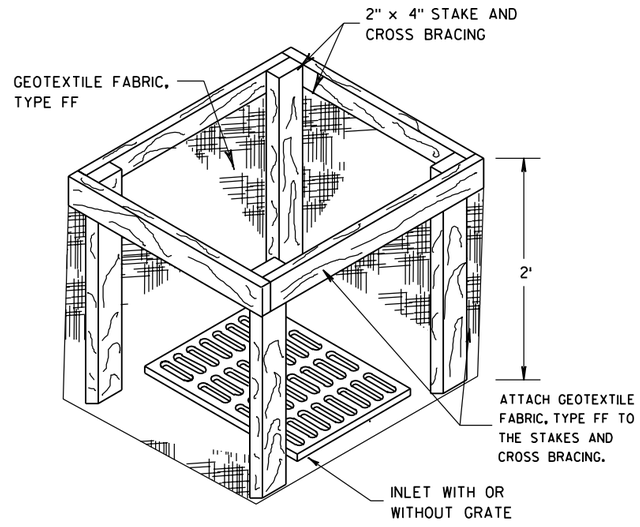
INLET PROTECTION, TYPE B
(WITHOUT CURB BOX)

(CAN BE INSTALLED IN ANY INLET WITHOUT A CURB BOX)

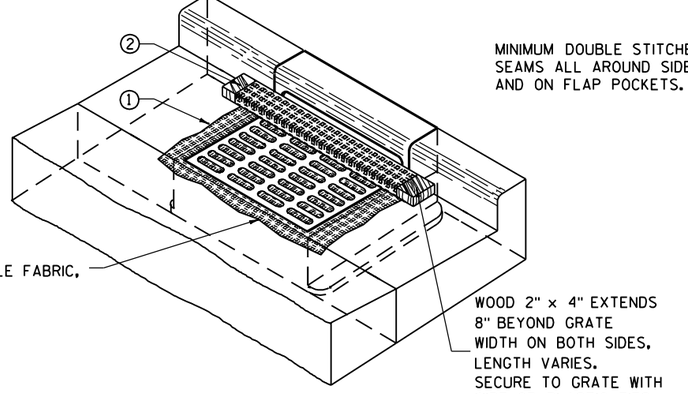


INLET PROTECTION, TYPE D

(CAN BE INSTALLED IN ANY INLET TYPE WITH
OR WITHOUT A CURB BOX AS PER NOTE ②)



INLET PROTECTION, TYPE A



INLET PROTECTION, TYPE C (WITH CURB BOX)

GENERAL NOTES

INLET PROTECTION DEVICES SHALL BE MAINTAINED OR REPLACED AT THE DIRECTION OF THE ENGINEER.

MANUFACTURED ALTERNATIVES APPROVED AND LISTED ON THE DEPARTMENT'S EROSION CONTROL PRODUCT ACCEPTABILITY LIST MAY BE SUBSTITUTED.

WHEN REMOVING OR MAINTAINING INLET PROTECTION, CARE SHALL BE TAKEN SO THAT THE SEDIMENT TRAPPED ON THE GEOTEXTILE FABRIC DOES NOT FALL INTO THE INLET. ANY MATERIAL FALLING INTO THE INLET SHALL BE REMOVED IMMEDIATELY.

① FINISHED SIZE, INCLUDING FLAP POCKETS WHERE REQUIRED, SHALL EXTEND A MINIMUM OF 10" AROUND THE PERIMETER TO FACILITATE MAINTENANCE OR REMOVAL.

② FOR INLET PROTECTION, TYPE C (WITH CURB BOX), AN ADDITIONAL 18" OF FABRIC IS WRAPPED AROUND THE WOOD AND SECURED WITH STAPLES. THE WOOD SHALL NOT BLOCK THE ENTIRE HEIGHT OF THE CURB BOX OPENING.

③ FLAP POCKETS SHALL BE LARGE ENOUGH TO ACCEPT WOOD 2X4.

INSTALLATION NOTES

TYPE B & C

TRIM EXCESS FABRIC IN THE FLOW LINE TO WITHIN 3" OF THE GRATE.

THE CONTRACTOR SHALL DEMONSTRATE A METHOD OF MAINTENANCE, USING A SEWN FLAP, HAND HOLDS OR OTHER METHOD TO PREVENT ACCUMULATED SEDIMENT FROM ENTERING THE INLET.

TYPE D

DO NOT INSTALL INLET PROTECTION TYPE D IN INLETS SHALLOWER THAN 30", MEASURED FROM THE BOTTOM OF THE INLET TO THE TOP OF THE GRATE.

TRIM EXCESS FABRIC IN THE FLOW LINE TO WITHIN 3" OF THE GRATE.

THE INSTALLED BAG SHALL HAVE A MINIMUM SIDE CLEARANCE, BETWEEN THE INLET WALLS AND THE BAG, MEASURED AT THE BOTTOM OF THE OVERFLOW HOLES, OF 3". WHERE NECESSARY THE CONTRACTOR SHALL CINCH THE BAG, USING PLASTIC ZIP TIES, TO ACHIEVE THE 3" CLEARANCE. THE TIES SHALL BE PLACED AT A MAXIMUM OF 4" FROM THE BOTTOM OF THE BAG.

INLET PROTECTION
TYPE A, B, C, AND D

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
10/16/02
DATE
FHWA

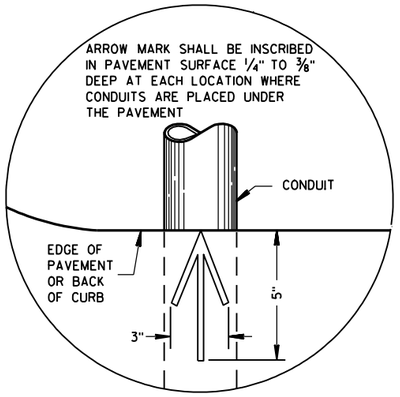
CHIEF ROADWAY DEVELOPMENT ENGINEER

6

S.D.D. 8 E 10-2

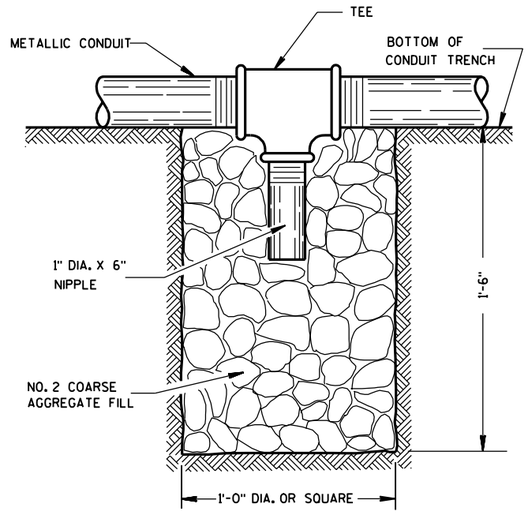
6

S.D.D. 8 E 10-2



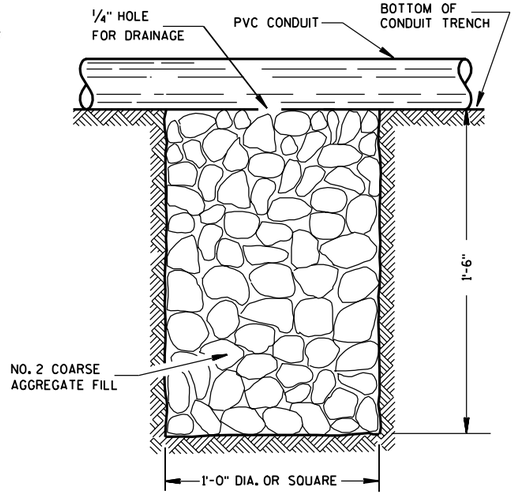
PLAN VIEW

ARROW MARK



NOTE: INSTALL AT LOCATIONS WHERE METALLIC CONDUITS CANNOT BE PITCHED TO DRAIN INTO A PULL BOX.

DRAIN SUMP FOR METALLIC CONDUIT



NOTE: INSTALL AT LOCATIONS WHERE PVC CONDUITS CANNOT BE PITCHED TO DRAIN INTO A PULL BOX.

DRAIN SUMP FOR PVC CONDUIT

GENERAL NOTES

DETAILS OF CONSTRUCTION, MATERIALS AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE CONTRACT.

METALLIC (STANDARD SPECIFICATION 652.2.2) OR NONMETALLIC (STANDARD SPECIFICATION 652.2.3) CONDUIT SHALL BE FURNISHED AND PLACED AS SHOWN.

DEPTH OF CONDUIT INSTALLED BELOW THE TRAVELED WAY SHALL BE 24 INCHES MINIMUM AND 36 INCHES MAXIMUM.

DEPTH OF CONDUIT INSTALLED THAT IS NOT BELOW THE TRAVELED WAY SHALL BE 18 INCHES MINIMUM AND 36 INCHES MAXIMUM.

ANY EXCEPTION TO THE MAXIMUM DEPTH SHALL BE ONLY WITH THE WRITTEN APPROVAL OF THE ENGINEER.

THE TRENCH SHALL NOT BE BACKFILLED PRIOR TO INSPECTION OF THE CONDUIT.

ALL METALLIC CONDUIT RACEWAY ENDS SHALL BE REAMED AND THREADED.

ALL METALLIC CONDUIT IN WHICH WIRE OR CABLE IS TO BE INSTALLED SHALL BE BUSHED WITH APPROVED THREADED BUSHINGS BEFORE INSTALLATION OF THE WIRE OR CABLE.

ALL METALLIC CONDUITS IN WHICH WIRE OR CABLE IS NOT TO BE INSTALLED SHALL BE CAPPED WITH THREADED PROTECTIVE CAPS, AS APPROVED BY THE ENGINEER.

ALL NONMETALLIC CONDUIT SHALL BE CAPPED OR PLUGGED IMMEDIATELY AFTER INSTALLATION AND SHALL REMAIN CAPPED OR PLUGGED UNTIL WIRE/CABLES ARE INSTALLED.

NONMETALLIC CONDUITS IN WHICH WIRE OR CABLE IS NOT BEING INSTALLED SHALL REMAIN CAPPED OR PLUGGED.

BENDING OF PVC ELECTRICAL CONDUIT SHALL BE ACCOMPLISHED BY USING A BLANKET OR EMERSION TYPE TANK DESIGNED FOR THE PURPOSE OF BENDING PVC ELECTRICAL CONDUIT.

ALL CUT ENDS SHALL BE TRIMMED INSIDE AND OUTSIDE TO REMOVE ALL ROUGH EDGES ON NONMETALLIC CONDUIT. (SEE NEC 347.5)

WHEN REQUIRED TO CONNECT NONMETALLIC CONDUIT TO METALLIC CONDUIT, ONLY U.L. LISTED ADAPTER FITTINGS SHALL BE USED.

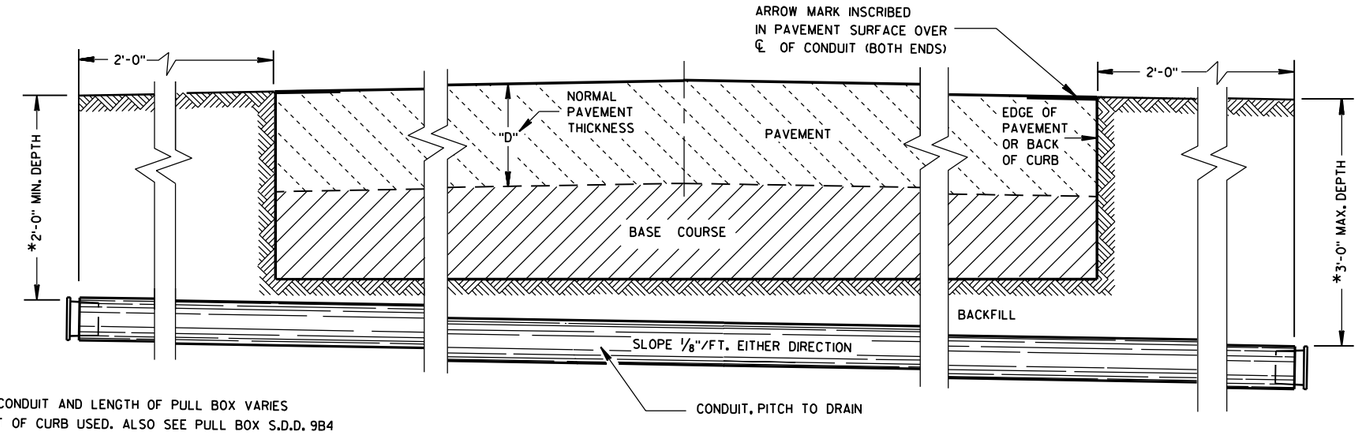
PRIOR TO CONDUIT ACCEPTANCE, CONDUIT CAPS OR PLUGS SHALL BE REMOVED, AND THE CAPS, PLUGS AND CONDUIT ENDS SHALL BE THOROUGHLY CLEANED AND THEN THE CAPS OR PLUGS REINSTALLED TO ENSURE THAT THE CAPS OR PLUGS CAN BE EASILY REMOVED IN THE FUTURE.

ALL CONDUIT BEING FURNISHED AND INSTALLED SHALL HAVE THE U.L. LABEL FIRMLY ATTACHED.

CONDUIT RUNS SHALL BE THE SAME SIZE OF CONDUIT FROM ONE END TO THE OTHER (FROM PULL BOX TO PULL BOX-OR-JUNCTION BOX TO JUNCTION BOX-OR-BASE TO BASE, ETC.).

POLY ROPE OR A PULL WIRE SHALL BE INSTALLED AS STATED IN THE STANDARD SPECIFICATION, ITEM 652.3.1.1.

ALL CONDUIT RUNS SHALL BE STRAIGHT (WITHOUT BENDS) FROM PULL BOX TO PULL BOX, PULL BOX TO BASE AND BASE TO BASE AS SHOWN ON THE PLANS.



*DEPTH OF CONDUIT AND LENGTH OF PULL BOX VARIES WITH HEIGHT OF CURB USED. ALSO SEE PULL BOX S.D.D. 9B4

SIDE ELEVATION

DETAIL FOR CONDUIT UNDER PAVED HIGHWAYS

CONDUIT

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
10/23/03
DATE

STATE ELECTRICAL ENGINEER FOR HIGHWAYS

FHWA

6

S.D.D. 9 B 2-7

TABLE OF NOMINAL DIMENSIONS AND WEIGHTS

DIMENSION IN INCHES		CORRUGATED STEEL PIPE								
PIPE DIAMETER (INSIDE)	A	12	12	12	18	18	18	24	24	24
PIPE LENGTH **	B	24	30	36	24	30	36	36	42	48
WALL THICKNESS	C	0.064	0.064	0.064	0.064	0.064	0.064	0.064	0.064	0.064
COVER	D	10 1/4	10 1/4	10 1/4	16 1/4	16 1/4	16 1/4	22 1/4	22 1/4	22 1/4
FRAME	E	14 1/2	14 1/2	14 1/2	20 1/2	20 1/2	20 1/2	26 1/2	26 1/2	26 1/2
FRAME	F	8 1/2	8 1/2	8 1/2	14 1/2	14 1/2	14 1/2	20 1/2	20 1/2	20 1/2
FRAME	G	11 1/2	11 1/2	11 1/2	17 1/2	17 1/2	17 1/2	23 1/2	23 1/2	23 1/2
WEIGHT IN POUNDS *										
FRAME AND COVER		60	60	60	110	110	110	155	155	155

* THE ACTUAL WEIGHT OF THE MANHOLE FRAME AND COVER MAY VARY WITHIN 5 PERCENT PLUS OR MINUS OF THE WEIGHTS SHOWN.

** NORMALLY USED LENGTHS. THE PROJECT ENGINEER SHALL DETERMINE IF PIPE LENGTHS, OTHER THAN THOSE SPECIFIED, SHALL BE USED, TO A MAXIMUM OF 48" (CONTINUOUS LENGTH, NON-SPLICED). THE ADDITIONAL LENGTH SHALL BE INCIDENTAL TO THE PULL BOX BID PRICE.

GENERAL NOTES

DETAILS OF CONSTRUCTION, MATERIALS AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE CONTRACT.

ALL FRAMES AND COVERS SHALL BE HEAVY DUTY TYPE, SUITABLE FOR VEHICULAR TRAFFIC LOADS.

PULL BOXES LOCATED IN THE ROADWAYS SHALL HAVE LOCKING COVERS.

ENTRANCE HOLES INTO PULL BOXES SHALL BE CUT WITH A CIRCULAR HOLE SAW OR HYDRAULIC CONDUIT PUNCH. HOLE SIZE SHALL BE THE OUTSIDE DIAMETER OF THE CONDUIT THAT IS TO FIT IN THE OPENING PLUS NO MORE THAN 1/4".

THE CONTRACTOR SHALL NOT INSTALL WIRE IN ANY PULL BOX UNTIL ITS INSTALLATION HAS BEEN INSPECTED AND ACCEPTED BY THE ENGINEER.

GROUNDING LUGS (MECHANICAL CONNECTORS) SHALL BE U.L. LISTED AND APPROVED FOR USE WITH COPPER WIRE. THE MECHANICAL CONNECTION (INSIDE AND OUTSIDE) TO THE PULL BOX, SHALL BE TOTALLY AND PERMANENTLY SEALED WITH A SILICONE OR RUBBERIZED CAULKING COMPOUND AS APPROVED BY THE ENGINEER.

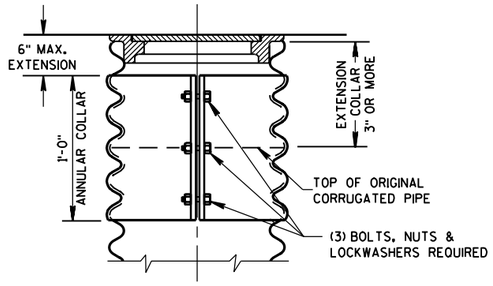
GROUNDING LUGS ARE NOT REQUIRED IN PULL BOXES WHEN VOLTAGES OF LESS THAN 50 VOLTS AC ARE THE ONLY VOLTAGES ENCOUNTERED IN THE BOXES.

ALL METALLIC CONDUIT IN WHICH WIRE AND/OR CABLE IS TO BE INSTALLED, SHALL BE BUSHED BEFORE INSTALLATION OF THE WIRE AND/OR CABLE.

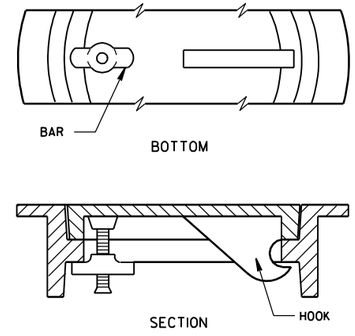
S.D.D. 9B2, "CONDUIT", APPLIES TO THIS DRAWING.

WHEN PULL BOXES ARE INSTALLED FOR FUTURE USE, DO NOT INSTALL THE EQUIPMENT GROUNDING LUG. THE EQUIPMENT GROUNDING LUG, THE EQUIPMENT GROUNDING ELECTRODE AND THE EQUIPMENT GROUNDING CONDUCTOR SHALL BE REQUIRED AND INSTALLED UNDER A FUTURE WIRING CONTRACT.

IF PULL BOX EQUIPMENT GROUNDING IS REQUIRED USING AN EQUIPMENT GROUNDING ELECTRODE IN EACH PULL BOX, THE EQUIPMENT GROUNDING ELECTRODE SHALL BE 5/8" X 8'-0", COPPERCLAD AND BE EXOTHERMICALLY WELDED TO A #4 AWG, COPPER, STRANDED WIRE (BARE OR GREEN INSULATED). THE #4 AWG WIRE SHALL BE 4 FEET IN LENGTH, NEATLY COILED, TAPED AND AVAILABLE FOR USE WHEN REQUIRED.

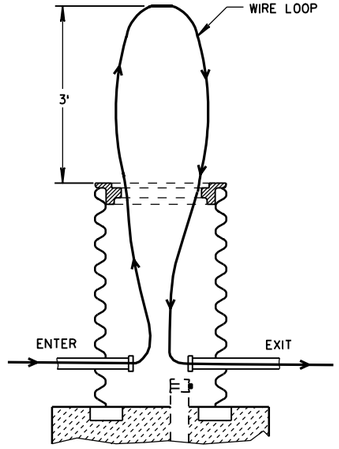


CORRUGATED PIPE EXTENDER

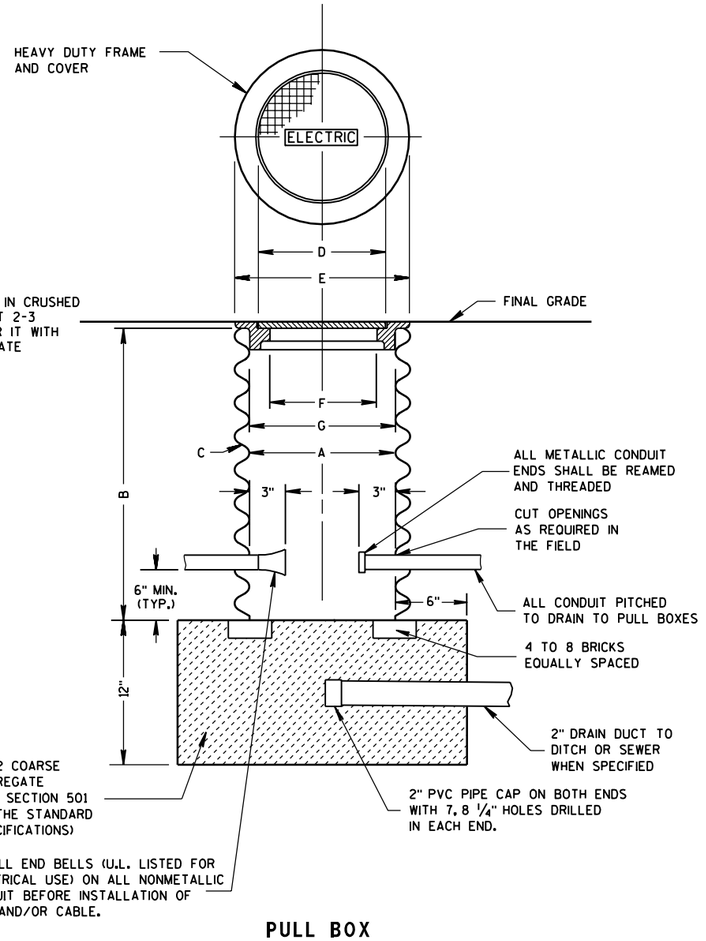


ALTERNATE COVER (LOCKING)

TIGHTENING BAR TYPE

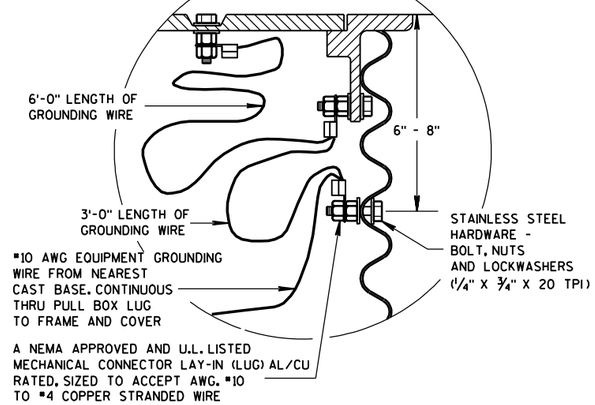


MEASUREMENT DETAIL FOR WIRE/CABLE IN THE PULL BOX



WHEN A PULL BOX IS INSTALLED IN CRUSHED AGGREGATE SHOULDERS, PLACE IT 2-3 INCHES BELOW GRADE AND COVER IT WITH 2-3 INCHES OF CRUSHED AGGREGATE

PULL BOX



EQUIPMENT GROUNDING LUG AND LOCATION IN STEEL PULL BOXES

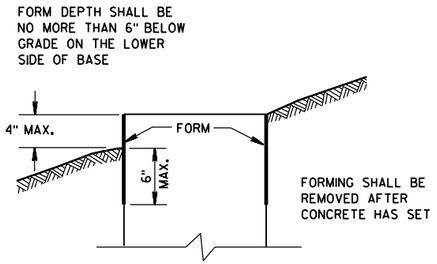
PULL BOX

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
9/27/06 — DATE
/S/ Balu Ananthanarayanan — STATE ELECTRICAL ENGINEER FOR HIGHWAYS
FHWA

6

S.D.D. 9 B 4-9



FORMING DETAIL

QUANTITY REQUIREMENTS	CONCRETE BASE TYPE		
	1	2	5
APPROX. CUBIC YARDS OF CONCRETE	0.40	0.57	0.40
LBS. OF HOOP BAR STEEL	NONE	23	16
LBS. OF VERTICAL BAR STEEL	NONE	60	18

GENERAL NOTES

DETAILS OF CONSTRUCTION, MATERIALS AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE CONTRACT.

BASES SHALL BE EXCAVATED BY USE OF A CIRCULAR AUGER.

TOP SURFACES OF CONCRETE BASES SHALL BE TROWEL FINISHED SMOOTH AND LEVEL.

CONDUIT SIZES AND LOCATIONS SHALL BE AS SHOWN ON THE PLANS.

THE FINAL OR TERMINATING CONCRETE BASE IN A CONDUIT RUN SHALL HAVE A 6" EXIT STUB INSTALLED FOR FUTURE CABLING USE. THE EXIT STUB SHALL BE SIZED AS USED THROUGHOUT THE CONDUIT RUN AS SHOWN AT THE ENTRANCE OF THE BASE.

MINIMUM BENDING RADIUS OF CONDUIT IS EQUAL TO 6 X THE DIAMETER.

CONDUIT HEIGHT ABOVE CONCRETE BASES SHALL BE 1 INCH. ALL METALLIC CONDUIT ENDS SHALL BE REAMED AND THREADED.

ALL CONDUIT ENDS AT THE TOP OF CONCRETE BASES SHALL BE CAPPED IF METALLIC OR PLUGGED IF NONMETALLIC IMMEDIATELY AFTER PLACEMENT AND BEFORE CONCRETE IS POURED. CONDUITS IN WHICH WIRE OR CABLE IS NOT INSTALLED SHALL REMAIN CAPPED OR PLUGGED.

GENERAL NOTES (CONTINUED)

BELL ENDS SHALL BE INSTALLED ON ALL PVC CONDUIT EXPOSED AT THE TOP OF CONCRETE BASES BEFORE INSTALLATION OF CABLE OR WIRE.

ENDS OF CONDUIT INSTALLED BELOW GRADE FOR FUTURE USE SHALL BE CAPPED IF METALLIC OR PLUGGED IF NONMETALLIC.

WHEN REQUIRED TO CONNECT NONMETALLIC CONDUIT TO METALLIC CONDUIT, ONLY ADAPTER FITTINGS, U.L. LISTED FOR ELECTRICAL USE, SHALL BE USED.

IF A BASE REQUIRES A DEEP FORM BECAUSE OF LOOSE DIRT OR FILL, THE FORM SHALL BE REMOVED BEFORE BACKFILLING AROUND THE BASE. BACKFILL SHALL BE TAMPED TIGHT AGAINST THE BARE CONCRETE BASE IN LAYERS OF 1 FOOT OR LESS.

A NO. 4 AWG, STRANDED COPPER EQUIPMENT GROUNDING CONDUCTOR SHALL BE EXOTHERMICALLY WELDED TO THE EQUIPMENT GROUNDING ELECTRODE (GROUND ROD) FOR TYPE 2 AND TYPE 5 BASES.

THE EQUIPMENT GROUNDING CONDUCTOR SHALL BE FURNISHED AND INSTALLED TO ENTER THE BASE OF THE TYPE 2 AND TYPE 5 BASES THROUGH A 1 INCH CONDUIT INSTALLED FOR GROUNDING PURPOSES, LEAVING A 4 FOOT COIL OF WIRE ABOVE THE CONCRETE BASE. THE EQUIPMENT GROUNDING CONDUCTOR SHALL BE NEATLY COILED AND THE COILS TIED TOGETHER.

ANCHOR RODS SHALL BE THREADED 12" IN LENGTH ON EACH END OF THE ROD. ANCHOR RODS SHALL BE MANUFACTURED IN ACCORDANCE WITH SECTION 654.2.1 AND 641.2.2 OF THE STANDARD SPECIFICATIONS, ASTM A-449, OR ASTM A-687 (GRADE 105).

WASHERS AND LOCK WASHERS ARE REQUIRED ON ALL ANCHOR RODS.

WHEN ANCHOR RODS USING THE ALTERNATE "L" BEND ARE FURNISHED, THE 4" "L" BEND SHALL BE IN ADDITION TO THE SPECIFIED ANCHOR ROD BAR LENGTH. THE "L" BEND END SHALL NOT BE THREADED.

ANCHOR RODS SHALL BE INSTALLED WITH MISALIGNMENTS OF LESS THAN 1:40 FROM VERTICAL PER SECTION 5.17.6.3, AASHTO 2001 4TH EDITION STANDARD SPECIFICATIONS FOR STRUCTURAL SUPPORTS FOR HIGHWAY SIGNS, LUMINARIES AND TRAFFIC SIGNALS.

WELDING OF THE ANCHOR RODS TO THE CAGE IS UNACCEPTABLE. TIE WIRES SHALL BE USED.

BAR STEEL REINFORCEMENT SHALL BE COATED WITH POWDERED EPOXY RESIN IN ACCORDANCE WITH SECTION 505 OF THE STANDARD SPECIFICATIONS (LATEST EDITION).

(1) THE MINIMUM DEPTH OF CONDUIT EXITING THE CONCRETE BASE AND INSTALLED BELOW THE TRAVELED WAY SHALL BE 24 INCHES. THE MINIMUM DEPTH OF CONDUIT EXITING THE CONCRETE BASE THAT IS NOT INSTALLED BELOW THE TRAVELED WAY SHALL BE 18 INCHES. THE MAXIMUM DEPTH OF ALL CONDUIT SHALL BE 36 INCHES EXCEPT WITH WRITTEN APPROVAL BY THE ENGINEER.

(2) (4) 1" DIA. X 3'-6" ANCHOR RODS.

(3) (4) 1" DIA. X 5'-0" ANCHOR RODS.

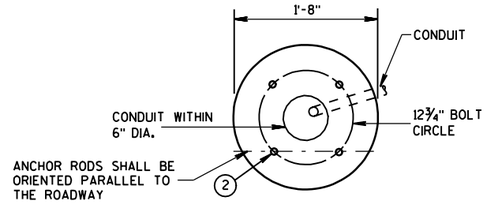
(4) (6) NO. 6 X 6'-8" BAR STEEL REINFORCEMENT.

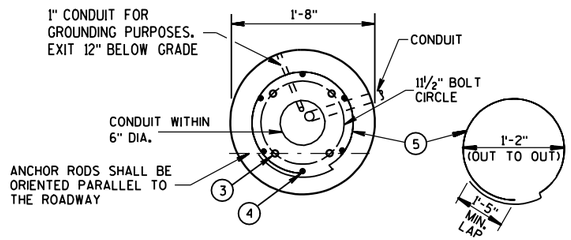
(5) (7) NO. 4 X 5'-1" BAR STEEL REINFORCEMENT @ 1'-0" C-C.

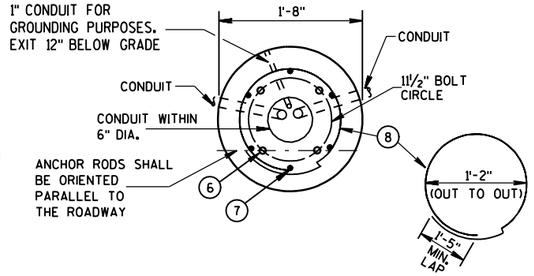
(6) (4) 1" DIA. X 3'-6" ANCHOR RODS.

(7) (6) NO.4 X 4'-8" BAR STEEL REINFORCEMENT

(8) (5) NO. 4 X 5'-1" BAR STEEL REINFORCEMENT @ 1'-0" C-C.

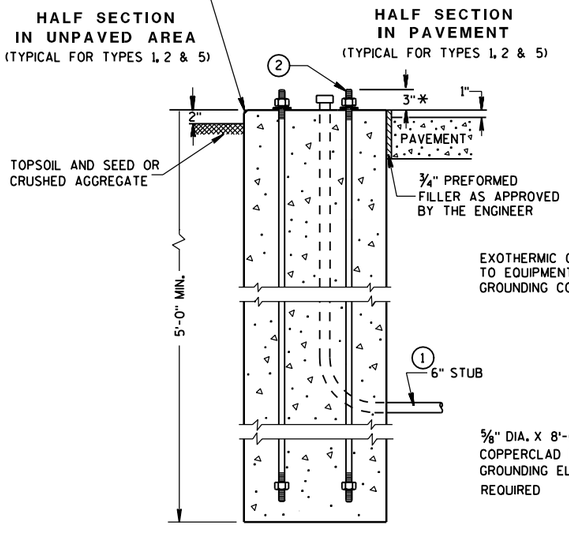




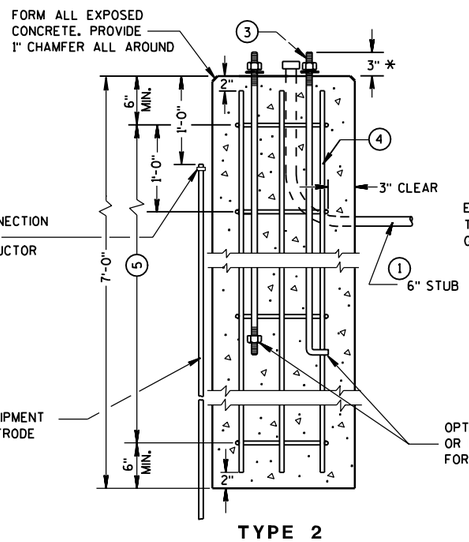


HALF SECTION IN UNPAVED AREA
(TYPICAL FOR TYPES 1, 2 & 5)

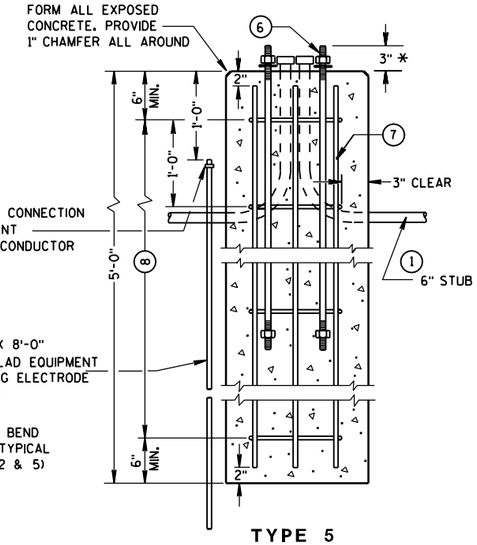
HALF SECTION IN PAVEMENT
(TYPICAL FOR TYPES 1, 2 & 5)



TYPE 1



TYPE 2



TYPE 5

CONCRETE BASES

* ANY ANCHOR ROD PROJECTION SHORTER THAN 2¾" OR LONGER THAN 3¼" SHALL REQUIRE THE BASE TO BE REMOVED AND REPLACED AT THE CONTRACTORS EXPENSE.

CONCRETE BASES, TYPES 1, 2 & 5

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
1/12/05
DATE
FHWA

STATE ELECTRICAL ENGINEER FOR HIGHWAYS

S.D.D. 9 C 2-4

6

S.D.D. 9 C 2-4

GENERAL NOTES

DETAILS OF CONSTRUCTION, MATERIALS AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE CONTRACT.

FOUR (4) BOLTS SHALL BE FURNISHED WITH EACH TRANSFORMER BASE. BOLTS SHALL BE 1" DIAMETER, 4" IN LENGTH, WITH WASHERS, LOCK WASHERS AND NUTS. BOLTS, NUTS AND WASHERS SHALL BE MANUFACTURED IN ACCORDANCE WITH SECTION 641.2.2 OF THE STANDARD SPECIFICATIONS, ASTM A-325, (92,000 YIELD) HEAVY HEX NUT AND BE GALVANIZED IN ACCORDANCE WITH ASTM A-153, CLASS C.

LEVELING SHIMS, IF NEEDED, SHALL BE DESIGNED FOR THE PURPOSE AND USED UNDER CAST BASES WHEN PLUMBING POLES OR STANDARDS DURING INSTALLATION. THE USE OF WASHERS IN LIEU OF PROPER LEVELING SHIMS IS NOT ACCEPTABLE.

SHIM LENGTH SHALL BE LONG ENOUGH TO COMPLETELY COVER THE AREA UNDER THE LENGTH AND WIDTH OF THE BASE MOUNTING FLANGE.

DOUBLE NUTTING IS NOT ACCEPTABLE FOR LEVELING OR MOUNTING PURPOSES.

A NEMA APPROVED AND U.L. LISTED MECHANICAL CONNECTOR (LUG) AL/CU RATED AND SIZED TO ACCEPT #10 AWG STRANDED WIRE, SHALL BE FURNISHED AND INSTALLED IN THE PEDESTAL AND TRANSFORMER BASES.

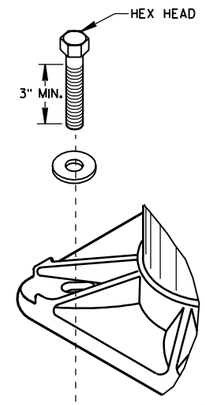
THE MECHANICAL CONNECTOR SHALL BE INSTALLED USING A 1/4" - 20 (TPI) STAINLESS STEEL HEX HEAD BOLT OF SUFFICIENT LENGTH TO FIRMLY ATTACH THE LUG TO THE BASE.

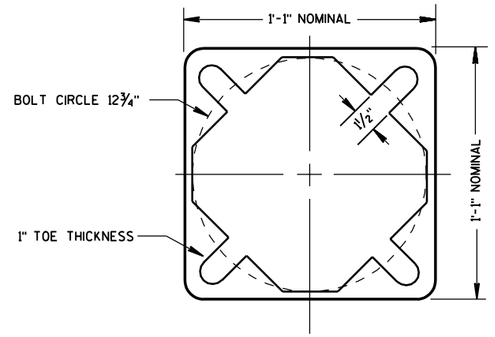
SHOULD THE MANNER OF ATTACHMENT OF THE LUG REQUIRE WASHERS, HEX NUTS, LOCK WASHER - THEY SHALL BE STAINLESS STEEL AS IS THE BOLT. THE MANNER OF ATTACHMENT SHALL NOT BLOCK ACCESSIBILITY TO WIRE PLACEMENT IN THE CONNECTOR.

PEDESTAL BASE COLLAR THREADING SHALL BE TAPERED AND IN ACCORDANCE WITH NATIONAL PIPE THREADING DIMENSIONS.

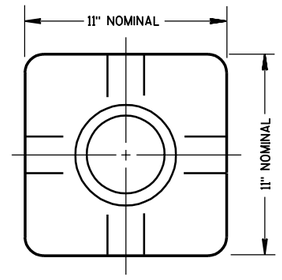
BASE COLLAR THREADING SHALL EXTEND INTO THE BASE COLLAR WITH SUFFICIENT DEPTH TO ACCEPT THE INSTALLATION OF TRAFFIC SIGNAL STANDARDS TO A DEPTH OF 1½", THEN TIGHTENING TO A POINT OF BEING IMMOVABLE.

THE ACCESS DOOR SHALL BE OF THE SAME MATERIAL AS THE BASE.

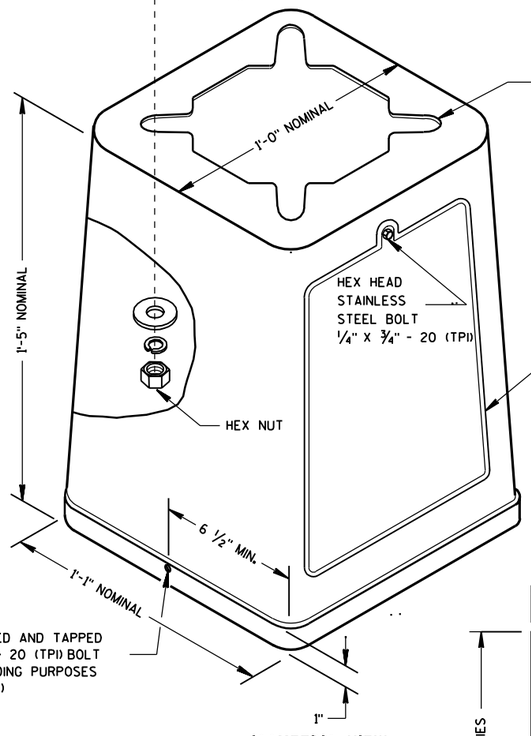




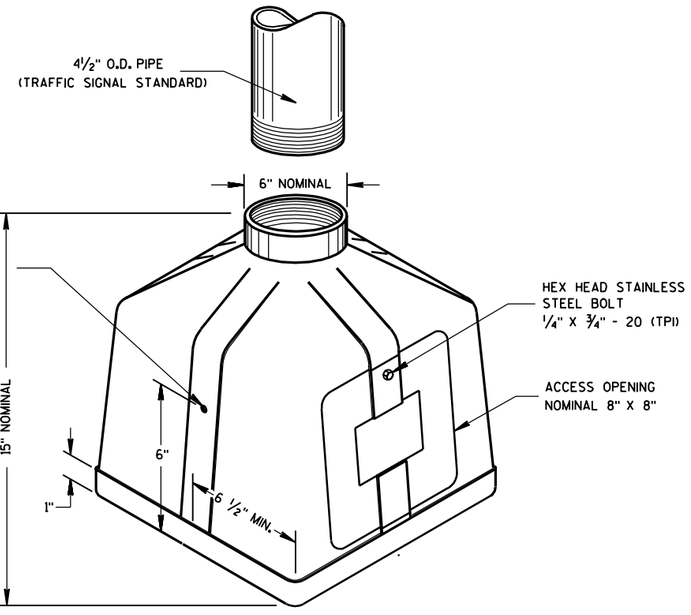
BOTTOM VIEW
(PEDESTAL BASE)



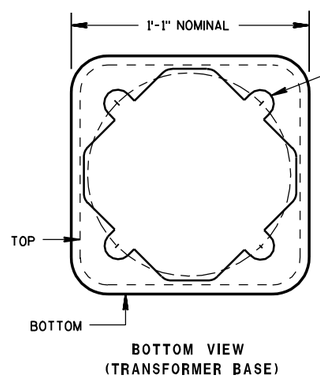
TOP VIEW
(PEDESTAL BASE)



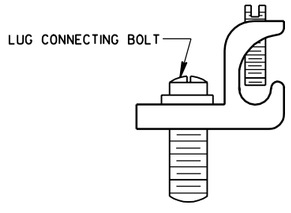
ISOMETRIC VIEW



ISOMETRIC VIEW
PEDESTAL BASE



BOTTOM VIEW
(TRANSFORMER BASE)

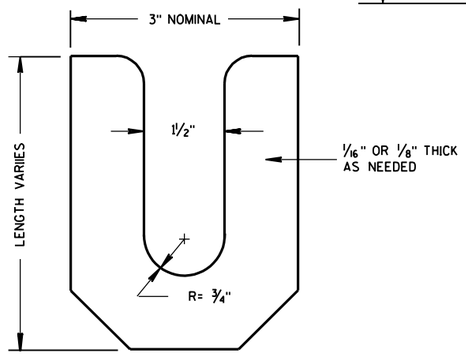


TYPICAL MECHANICAL CONNECTOR LUG

TO BE FURNISHED WITH EACH BASE

TRANSFORMER BASE

INTENDED FOR USE WITH TYPE 2, 3, 4, 5 & 6 POLES



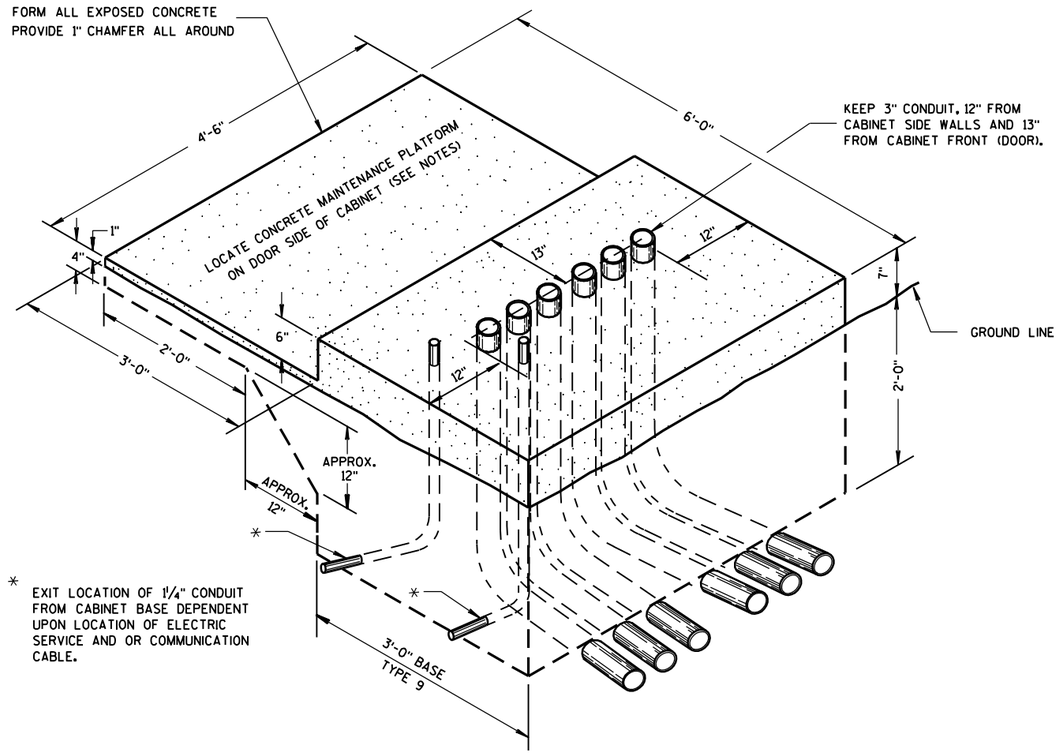
LEVELING SHIM

TRANSFORMER/PEDESTAL BASES

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
10/21/96
DATE
STATE ELECTRICAL ENGINEER FOR HIGHWAYS
FHWA

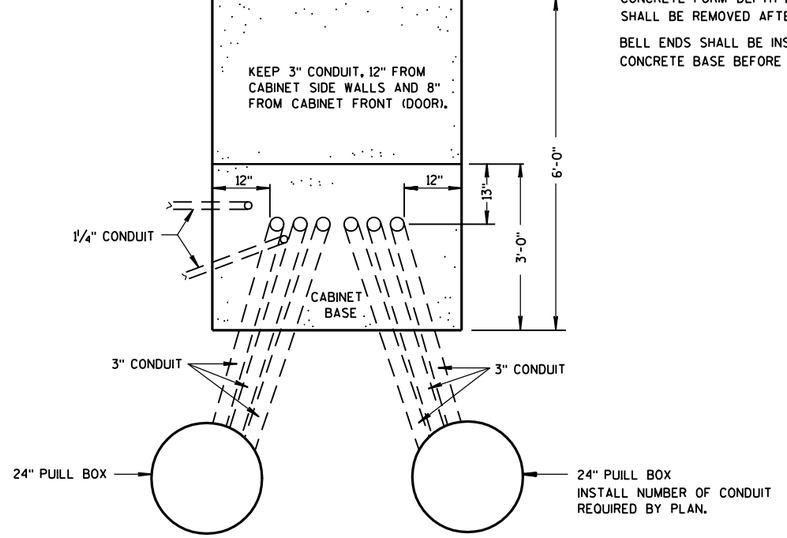
S.D.D. 9 C 3-2



ISOMETRIC VIEW

TYPE 9, SPECIAL

(C.Y. CONCRETE = APPROX. 1.56)



PLAN VIEW

CONCRETE CONTROL CABINET BASE, TYPE 9, SPECIAL

GENERAL NOTES

DETAILS OF CONSTRUCTION, MATERIALS AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE CONTRACT.

INSTALL FOUR ½ INCH MINIMUM DIAMETER X 4 INCH MINIMUM LENGTH STAINLESS STEEL APPROVED CONCRETE MASONRY ANCHORS TO ANCHOR THE CABINET TO TYPE 6, 7, 8, AND 9 BASES. THE ANCHOR STUDS SHALL BE LOCATED AS DIRECTED BY THE ENGINEER TO PROPERLY ANCHOR THE CONTROL CABINET TO THE BASE.

WHEN REQUIRED TO CONNECT NONMETALLIC CONDUIT TO METALLIC CONDUIT, ONLY ADAPTER FITTINGS, U.L. LISTED FOR ELECTRICAL USE, SHALL BE USED.

CONDUIT HEIGHT ABOVE THE CONCRETE BASE SHALL BE 1 INCH.

DEPTH OF CONDUIT INSTALLED BELOW THE TRAVELED WAY SHALL BE 24 INCHES MINIMUM AND 36 INCHES MAXIMUM.

DEPTH OF CONDUIT INSTALLED THAT IS NOT BELOW THE TRAVELED WAY SHALL BE 18 INCHES MINIMUM AND 36 INCHES MAXIMUM.

ANY EXCEPTION TO THE MAXIMUM DEPTH SHALL BE ONLY WITH THE WRITTEN APPROVAL OF THE ENGINEER.

CONTROL CABINET BASE TOP SURFACE SHALL BE TROWEL FINISHED SMOOTH AND LEVEL.

MAINTENANCE PLATFORM SHALL BE FLOAT OR BROOM FINISHED AND BE LEVEL.

MAINTENANCE PLATFORMS ARE NOT REQUIRED WHEN THE SURROUNDING AREA IS PAVED.

MINIMUM BENDING RADIUS OF CONDUIT = 6 X THE DIAMETER.

ALL METALLIC CONDUIT ENDS SHALL BE REAMED AND THREADED.

CAP ALL BELOW GRADE METALLIC CONDUIT ENDS IN WHICH WIRE OR CABLE IS NOT BEING INSTALLED.

PLUG ALL BELOW GRADE NONMETALLIC CONDUIT ENDS IN WHICH WIRE OR CABLE IS NOT BEING INSTALLED.

ALL CONDUIT ENDS AT THE TOP OF CONCRETE BASES SHALL BE CAPPED IF METALLIC OR PLUGGED IF NONMETALLIC IMMEDIATELY AFTER PLACEMENT AND BEFORE CONCRETE IS POURED. CONDUITS IN WHICH WIRE OR CABLE IS NOT BEING INSTALLED SHALL REMAIN CAPPED OR PLUGGED.

CONDUIT EXITING THE CONCRETE BASE (SIX THREE INCH) SHALL TERMINATE IN PULL BOXES AS SHOWN ON THE PLANS.

CONCRETE FORM DEPTH BELOW FINISHED GRADE SHALL BE 6" MAXIMUM. CONCRETE FORMS SHALL BE REMOVED AFTER CONCRETE HAS SET.

BELL ENDS SHALL BE INSTALLED ON ALL PVC CONDUIT EXPOSED AT THE TOP OF THE CONCRETE BASE BEFORE INSTALLATION OF CABLE OR WIRE.

CONCRETE CONTROL CABINET BASE, TYPE 9, SPECIAL

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED

2/27/07	/S/ Balu Ananthanarayanan
DATE	STATE ELECTRICAL ENGINEER FOR HIGHWAYS

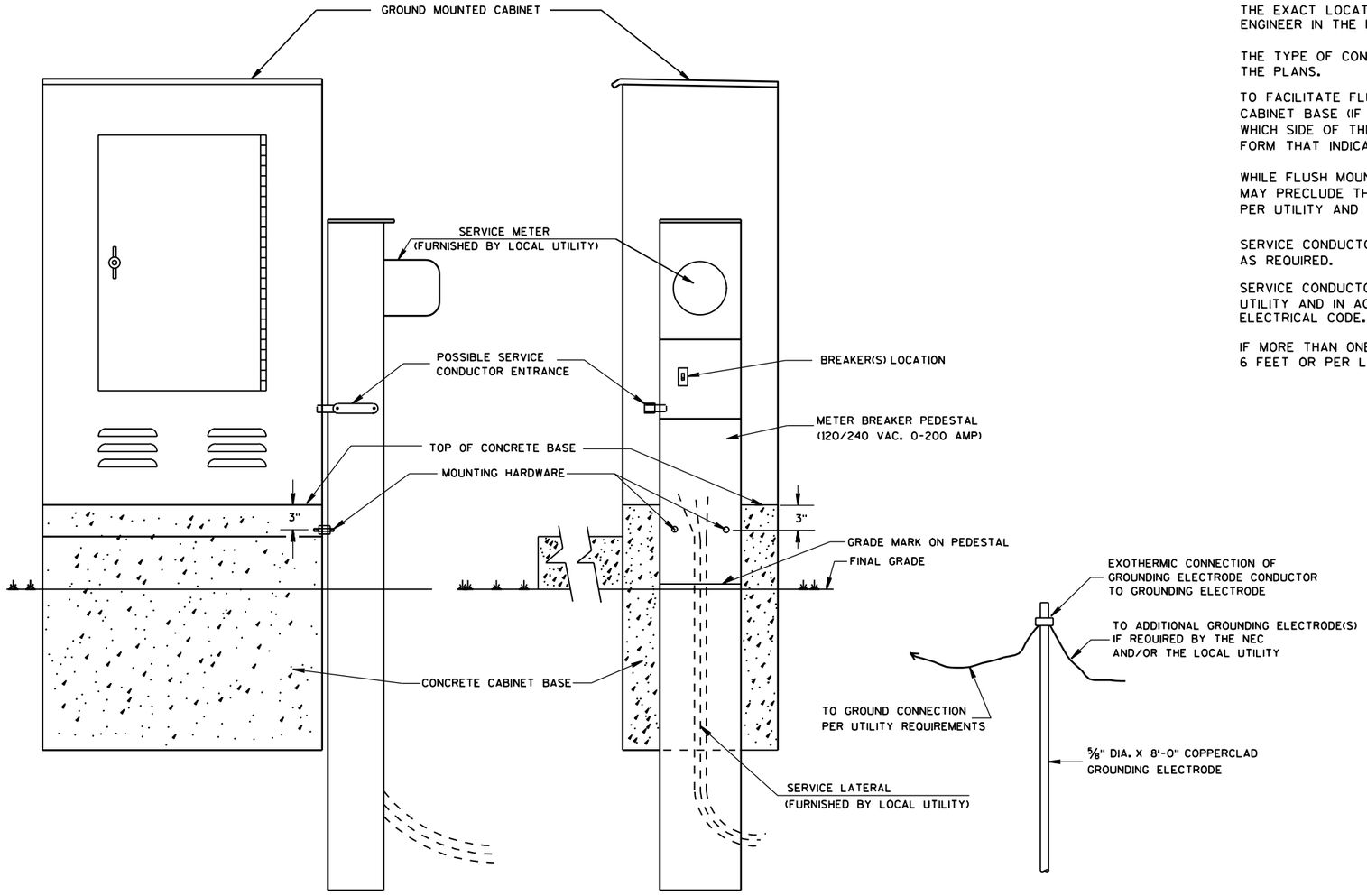
FHWA

6

S.D.D. 9 C 6-5

6

S.D.D. 9 C 6-5



TYPICAL CABINET SERVICE INSTALLATION

GENERAL NOTES

DETAILS OF CONSTRUCTION, MATERIALS AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE CONTRACT.

THE EXACT LOCATION OF THE METER BREAKER PEDESTAL SHALL BE DETERMINED BY THE ENGINEER IN THE FIELD.

THE TYPE OF CONCRETE CABINET BASE TO BE INSTALLED SHALL BE AS CALLED FOR IN THE PLANS.

TO FACILITATE FLUSH MOUNTING OF THE METER BREAKER PEDESTAL AGAINST THE SIDE OF THE CABINET BASE (IF FLUSH MOUNTING POSSIBLE. CONFER WITH THE LOCAL UTILITY TO DETERMINE WHICH SIDE OF THE CONCRETE BASE THE ELECTRICAL SERVICE LATERAL WILL APPROACH. THEN FORM THAT INDICATED SIDE FOR FULL SIDE DEPTH.

WHILE FLUSH MOUNTING IS THE MOST DESIRABLE MOUNTING CONFIGURATION UTILITY REQUIREMENTS MAY PRECLUDE THIS OPTION. CONTRACTOR MUST PROVIDE UTILITY APPROVED PEDESTAL AND INSTALL PER UTILITY AND MANUFACTURERS REQUIREMENTS.

SERVICE CONDUCTOR ENTRANCES SHALL BE RIGID METALLIC CONDUIT, NIPPLES AND/OR CONDULETS AS REQUIRED.

SERVICE CONDUCTOR ENTRANCES SHALL BE SIZED AND LOCATED AS REQUIRED BY THE LOCAL UTILITY AND IN ACCORDANCE WITH APPROPRIATE ARTICLES OF THE LATEST ACCEPTED NATIONAL ELECTRICAL CODE.

IF MORE THAN ONE GROUNDING ELECTRODE IS REQUIRED, THE DISTANCE APART SHALL BE 6 FEET OR PER LOCAL UTILITY REGULATIONS.

6

S.D.D. 9 D 1-3

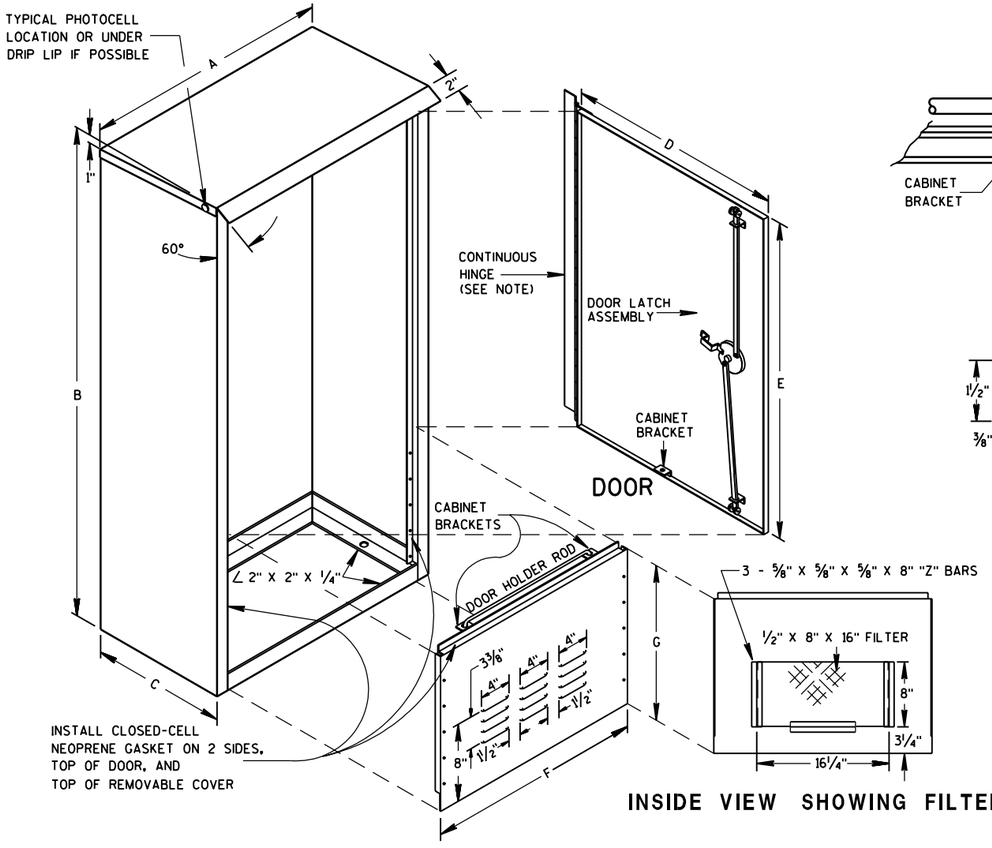
CABINET SERVICE INSTALLATION
(METER BREAKER PEDESTAL)

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
1/12/05
DATE
STATE ELECTRICAL ENGINEER FOR HIGHWAYS
FHWA

6

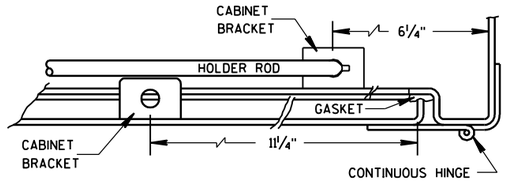
S.D.D. 9 D 1-3



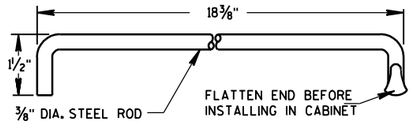
DOOR

REMOVABLE COVER

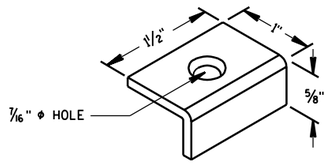
INSIDE VIEW SHOWING FILTER



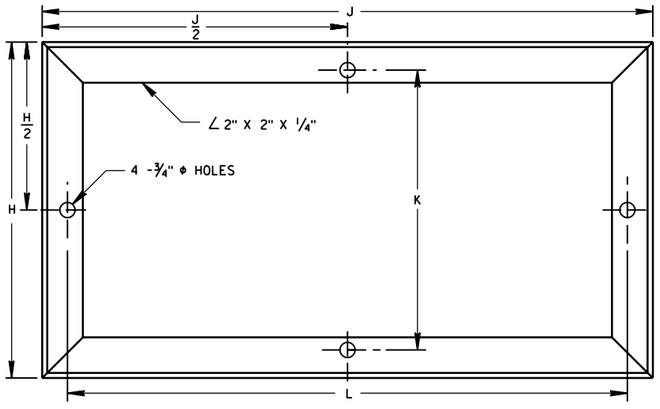
HINGE & DOOR HOLDER



HOLDER ROD



CABINET BRACKET



MOUNTING BASE

TABLE OF DIMENSIONS (INCHES)

MARK	CABINET TYPE		
	3060	3860	3866
A	30	38	38
B	60	60	66
C	16 1/2	16 1/2	24
D	26 1/2	34 3/4	33 3/4
E	38 3/4	38 3/4	38 3/4
F	26 1/2	34 3/4	33 3/4
G	19	19	25
H	16 1/2	16 1/2	24
H/2	8 1/4	8 1/4	12
J	30	38	38
J/2	15	19	19
K	13 3/4	13 3/4	21 1/4
L	27 1/2	35 1/2	35 1/2

GENERAL NOTES

DETAILS OF CONSTRUCTION, MATERIALS AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS AND APPLICABLE SPECIAL PROVISIONS.

PRIME WITH PHOSPHATE TREATMENT AND PRIMER.

FINISH EXTERIOR SURFACES WITH RUSTOLEUM #906 SILVER GRAY OR APPROVED EQUAL.

FINISH INTERIOR WITH RUSTOLEUM #2766 HIGH GLOSS WHITE ENAMEL OR APPROVED EQUAL.

ALL SHEET METAL PARTS SHALL BE .125 INCH THICK ALUMINUM.

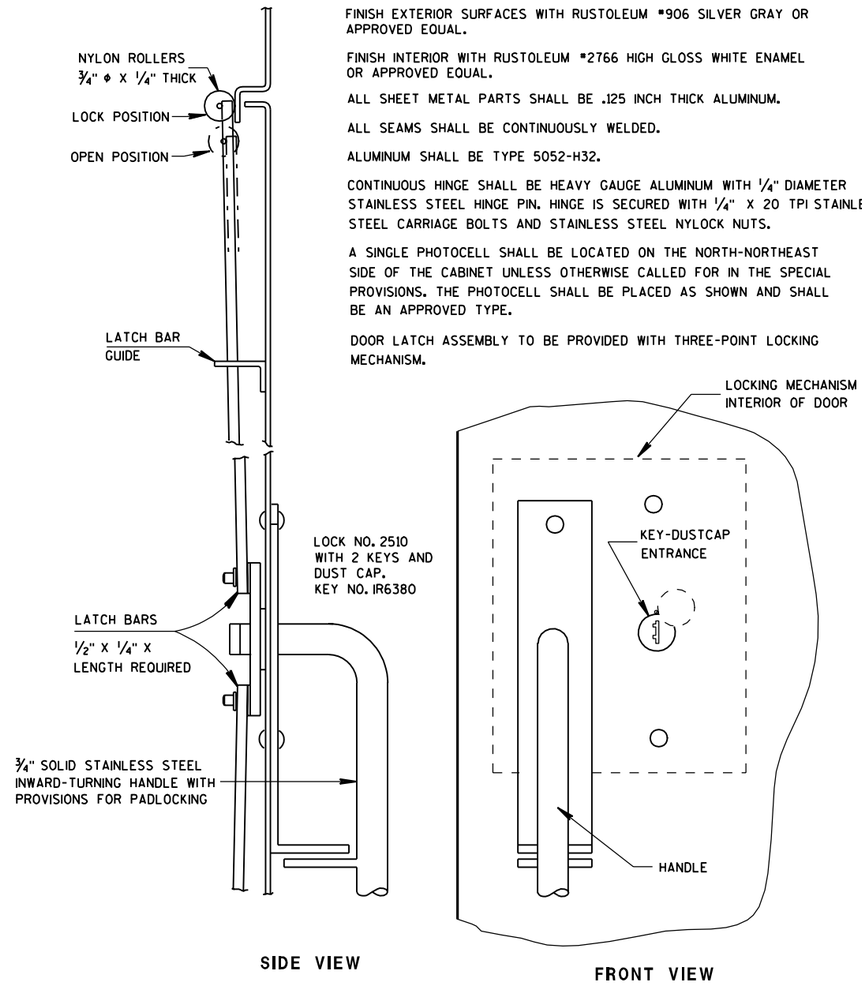
ALL SEAMS SHALL BE CONTINUOUSLY WELDED.

ALUMINUM SHALL BE TYPE 5052-H32.

CONTINUOUS HINGE SHALL BE HEAVY GAUGE ALUMINUM WITH 1/4" DIAMETER STAINLESS STEEL HINGE PIN. HINGE IS SECURED WITH 1/4" X 20 TPI STAINLESS STEEL CARRIAGE BOLTS AND STAINLESS STEEL NYLOCK NUTS.

A SINGLE PHOTOCELL SHALL BE LOCATED ON THE NORTH-NORTHEAST SIDE OF THE CABINET UNLESS OTHERWISE CALLED FOR IN THE SPECIAL PROVISIONS. THE PHOTOCELL SHALL BE PLACED AS SHOWN AND SHALL BE AN APPROVED TYPE.

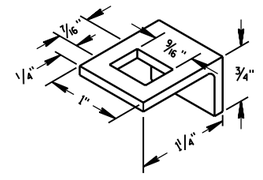
DOOR LATCH ASSEMBLY TO BE PROVIDED WITH THREE-POINT LOCKING MECHANISM.



SIDE VIEW

FRONT VIEW

LATCH ASSEMBLY



LATCH BAR GUIDE

SIGNAL OR LIGHTING CONTROL CABINET

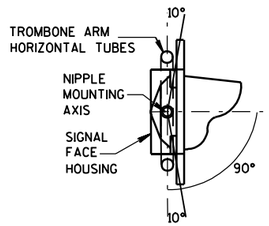
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
10/21/96
DATE
FHWA

STATE ELECTRICAL ENGINEER FOR HIGHWAYS

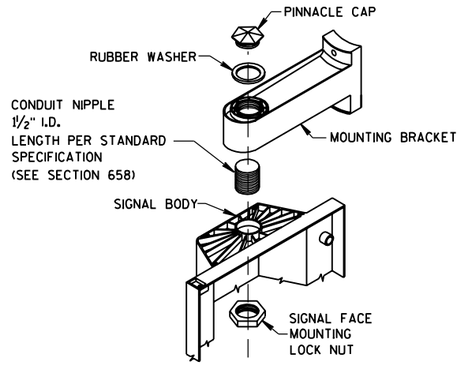
6

S.D.D. 9 D 2-2



SECTION A-A

(10 DEGREES TILT REQUIREMENT OF FACE(S) IN THE TROMBONE MOUNTING)



SIGNAL FACE MOUNTING DETAIL

(BANDED)

GENERAL NOTES

DETAILS OF CONSTRUCTION, MATERIALS AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE CONTRACT.

POLES SHALL BE EITHER ALUMINUM OR GALVANIZED STEEL AS CALLED FOR IN THE CONTRACT.

SECTION 657, POLES, OF THE STANDARD SPECIFICATIONS SHALL APPLY TO THIS DRAWING.

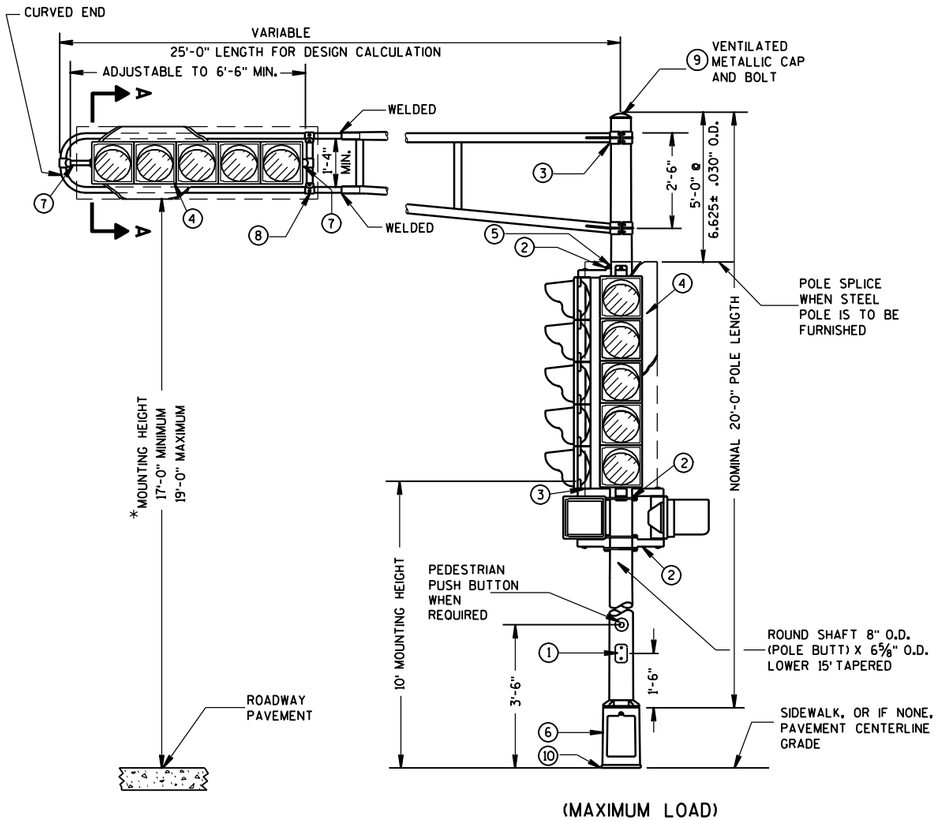
A PULL WIRE/ROPE IN ACCORDANCE WITH STANDARD SPECIFICATION 652 SHALL BE INSTALLED IN EACH TROMBONE ARM RACEWAY DURING THE MANUFACTURING PROCESS.

TYPE 2 ALUMINUM POLES SHALL BE CONSTRUCTED OF 6063-T6 ALUMINUM ALLOY. SLEEVING INSIDE THE POLE IS NOT ACCEPTABLE.

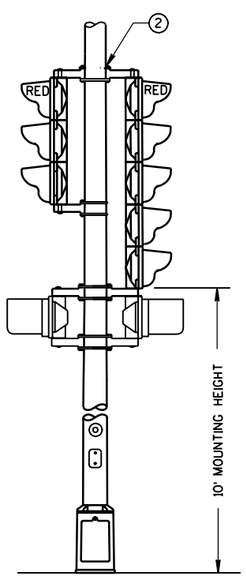
WHEN TRANSFORMER BASES ARE USED, WIRE CONNECTIONS SHALL BE MADE IN THE TRANSFORMER BASE.

1. 4" X 6" REINFORCED HANDHOLE & COVER ASSEMBLY WITH 2 (TWO) ¼" X ¾" - 20 TPI HEX HEAD STAINLESS STEEL BOLTS.
2. SIGNAL FACE MOUNTING BRACKETS. MOUNT WITH CAP SCREWS AND BANDING. (SEE STANDARD SPECIFICATIONS - SEC. 658)
3. GROMMETS, 1" CHASE NIPPLES OR 1" CLOSE CONDUIT NIPPLES WITH BUSHINGS SHALL BE PROVIDED FOR 1⅜" HOLE IN POLE SHAFT FOR WIRING.
4. SECURELY MOUNT DULL BLACK POLYCARBONATE BACKPLATES, PROJECTING 5" BEYOND ALL SIDES OF THE SIGNAL FACE HOUSING, PER MANUFACTURER'S RECOMMENDATIONS.
5. POLE MOUNTED SIGNAL FACES SHALL REQUIRE 1 OR MORE MOUNTING SPACERS UNDER THE TOP MOUNTING BRACKET(S) AS REQUIRED, TO PLUMB THE SIGNAL FACES.
6. CAST ALUMINUM TRANSFORMER BASE, WHEN REQUIRED.
7. MOUNTING BRACKET NIPPLES FOR THE SIGNAL FACE(S) SHALL BE 2 INCHES IN LENGTH AND 1½ INCHES IN DIAMETER. (SEE STANDARD SPECIFICATION - SECTION 658).
8. VERTICAL STRUT (ADJUSTABLE). ONE (1) SET SCREW (¼" X ¾" LONG- 20 TPI, STAINLESS STEEL, HEX HEAD) INTO EACH ARM MEMBER IF STRUT IS THE SLIDING TYPE.
9. FURNISH AND INSTALL VENTILATED, CAST, METALLIC (ALUMINUM ALLOY) CAPS. FASTEN CAPS WITH ONE (1) ¼" X ¾" - 20 TPI STAINLESS STEEL, HEX HEAD BOLT.
10. SHIMMING, IF NEEDED, SHALL BE LOCATED BETWEEN THE CONCRETE FOUNDATION AND THE TRANSFORMER BASE.

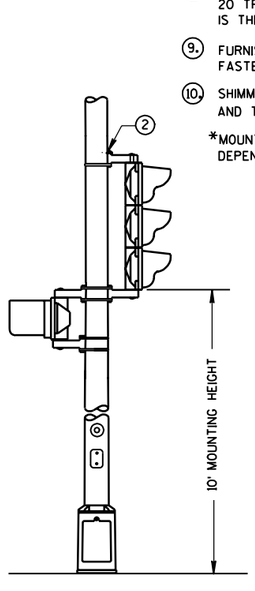
*MOUNTING HEIGHT LIMITATION DIMENSIONS OF THE TROMBONE MAST ARM WILL BE DEPENDENT UPON THE USE/NON-USE OF A TRANSFORMER BASE.



(MAXIMUM LOAD)



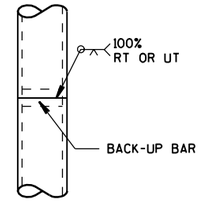
TYPICAL MOUNTING OF BACK TO BACK 3 AND 5 SECTION SIGNAL FACES



TYPICAL MOUNTING OF 3 SECTION SIGNAL FACE

FOR MANUFACTURERS USE ONLY

WELD TO BE 100% R.T. OR U.T. TESTED AS PER THE REQUIREMENTS OF AWS D 1.5-88. RECORDS OF COMPLIANCE OF SUCH TESTING SHALL BE FURNISHED TO THE OFFICE OF DESIGN/BRIDGE FOR VERIFICATION AND APPROVAL.



POLE SPLICE DETAIL

TYPE 2 POLE MOUNTING CONFIGURATION

POLE MOUNTINGS FOR TRAFFIC SIGNALS TYPE 2

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

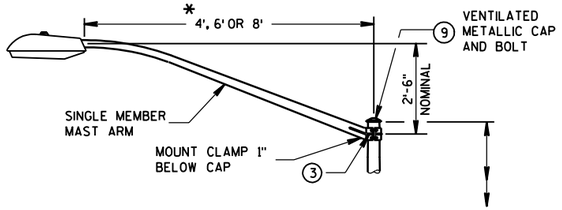
6

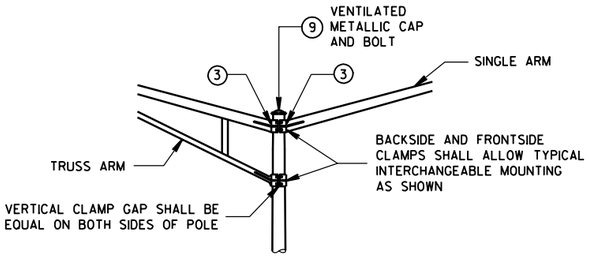
S.D.D. 9 E 1-6a

6

S.D.D. 9 E 1-6a

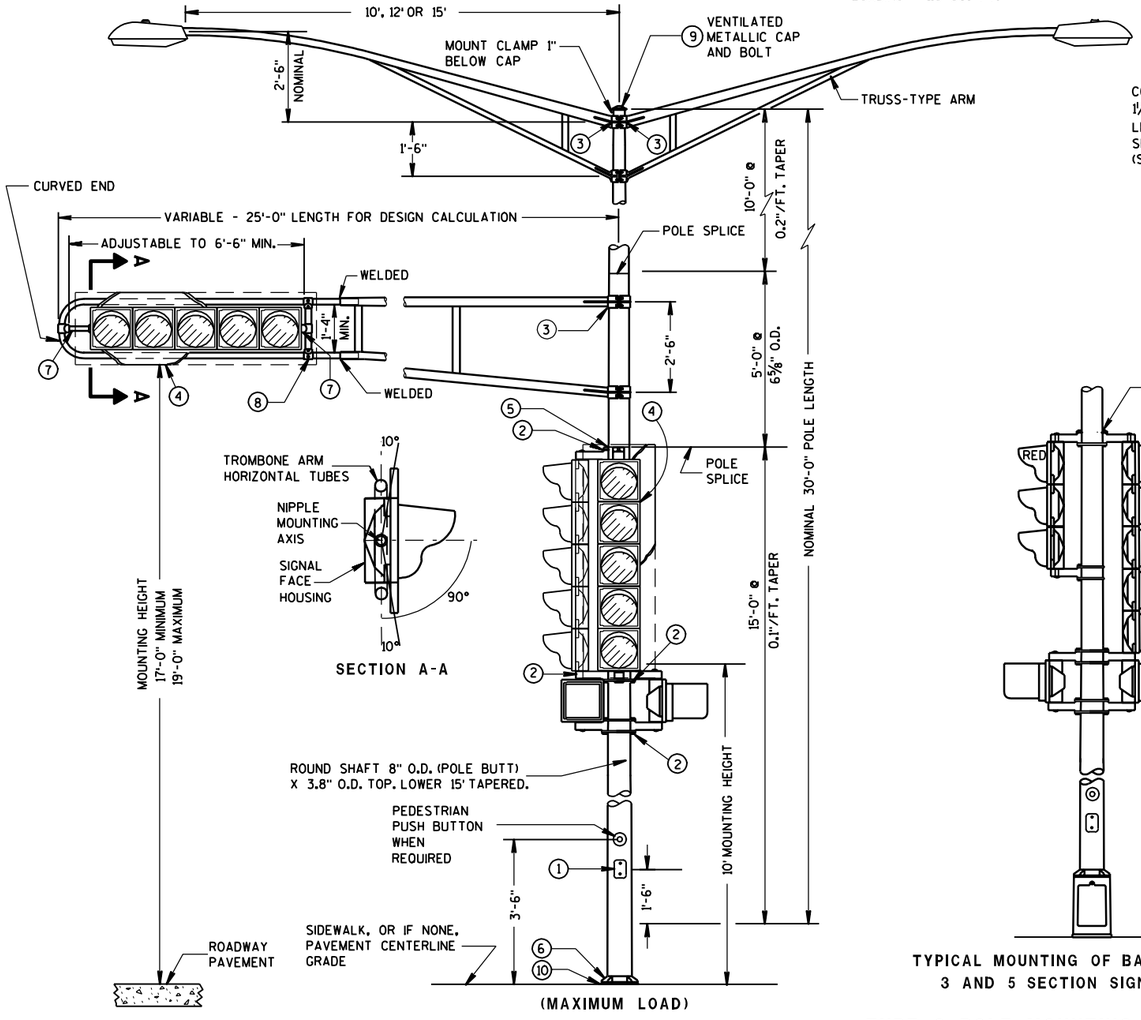
*RISE FOR 4' ARM SHALL BE 2'-0".



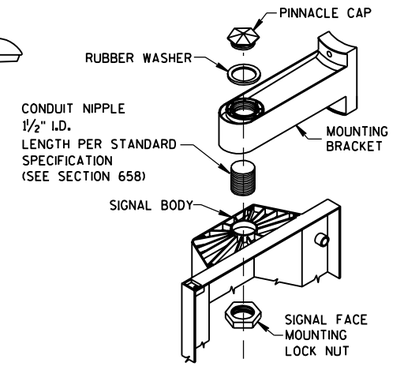


INTERCHANGEABLE MOUNTING DETAIL

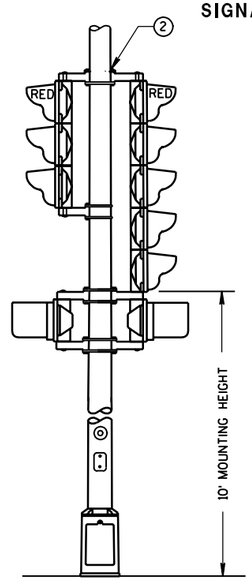
LUMINAIRE
WT. - 50 LBS.
EFFECTIVE PROJECTED AREA FOR WIND LOADING = 1.5 SQ. FT.



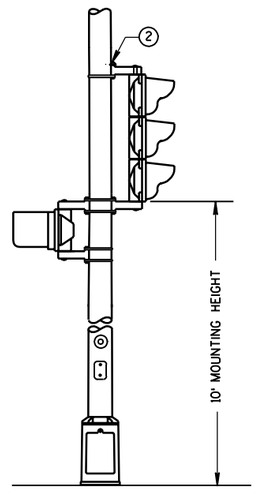
TYPE 3 POLE MOUNTING CONFIGURATION



SIGNAL FACE MOUNTING DETAIL
(BANDED)



TYPICAL MOUNTING OF BACK TO BACK 3 AND 5 SECTION SIGNAL FACES



TYPICAL MOUNTING OF 3 SECTION SIGNAL FACE

GENERAL NOTES

DETAILS OF CONSTRUCTION, MATERIALS AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE CONTRACT.

ALL TYPE 3 POLE MOUNTINGS SHALL BE DESIGNED TO INCLUDE TWIN 15' ARMS WITH LUMINAIRES.

POLES SHALL BE GALVANIZED STEEL.

SECTION 657, POLES, OF THE STANDARD SPECIFICATIONS SHALL APPLY TO THIS DRAWING.

A PULL WIRE/ROPE IN ACCORDANCE WITH STANDARD SPECIFICATION 652, SHALL BE INSTALLED IN EACH TROMBONE ARM RACEWAY DURING THE MANUFACTURING PROCESS.

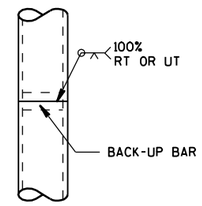
THE SLIPFITTER END OF THE LUMINAIRE MAST ARM SHALL BE A NOMINAL 2⅜ INCHES IN OUTSIDE DIAMETER. THE STRAIGHT PORTION OF THE SLIPFITTER END OF THE LUMINAIRE MAST ARM SHALL BE A NOMINAL 12 INCHES IN LENGTH.

WHEN TRANSFORMER BASES ARE USED, WIRE CONNECTIONS SHALL BE MADE IN THE TRANSFORMER BASE.

1. 4" X 6" REINFORCED HANDHOLE & COVER ASSEMBLY WITH 2 (TWO) ¼" X ¾" - 20 TPI HEX HEAD STAINLESS STEEL BOLTS.
2. SIGNAL FACE MOUNTING BRACKETS, MOUNT WITH CAP SCREWS AND BANDING. (SEE STANDARD SPECIFICATIONS - SEC. 658)
3. GROMMETS, 1" CHASE NIPPLES OR 1" CLOSE CONDUIT NIPPLES WITH BUSHINGS SHALL BE PROVIDED FOR 1⅜" HOLE IN POLE SHAFT FOR WIRING.
4. SECURELY MOUNT DULL BLACK POLYCARBONATE BACKPLATES, PROJECTING 5" BEYOND ALL SIDES OF THE SIGNAL FACE HOUSING, PER MANUFACTURER'S RECOMMENDATIONS.
5. POLE MOUNTED SIGNAL FACES SHALL REQUIRE 1 OR MORE MOUNTING SPACERS UNDER THE TOP MOUNTING BRACKET(S) AS REQUIRED, TO PLUMB THE SIGNAL FACE.
6. TYPE 3 POLE CONFIGURATIONS SHALL BE MOUNTED DIRECTLY TO THEIR CONCRETE BASES.
7. MOUNTING BRACKET NIPPLES FOR THE SIGNAL FACE(S) SHALL BE 2 INCHES IN LENGTH AND 1½ INCHES IN DIAMETER. (SEE STANDARD SPECIFICATION - SECTION 658)
8. VERTICAL STRUT (ADJUSTABLE), ONE (1) SET SCREW (1/4 " X ¾" -20 TPI, STAINLESS STEEL, HEX HEAD) INTO EACH ARM MEMBER IF STRUT IS THE SLIDING TYPE.
9. FURNISH AND INSTALL VENTILATED, CAST, METALLIC (ALUMINUM ALLOY) CAPS. FASTEN CAPS WITH ONE (1) ¼" X ¾" - 20 TPI STAINLESS STEEL, HEX HEAD BOLT.
10. SHIMMING, IF NEEDED, SHALL BE LOCATED BETWEEN THE CONCRETE FOUNDATION AND POLE.

FOR MANUFACTURERS USE ONLY

WELD TO BE 100% R.T. OR U.T. TESTED AS PER THE REQUIREMENTS OF AWS D 1.5-88. RECORDS OF COMPLIANCE OF SUCH TESTING SHALL BE FURNISHED TO THE OFFICE OF DESIGN/BRIDGE FOR VERIFICATION AND APPROVAL.



POLE SPLICE DETAIL

POLE MOUNTINGS FOR TRAFFIC SIGNALS AND LIGHTING UNITS, TYPE 3 (HEAVY DUTY)

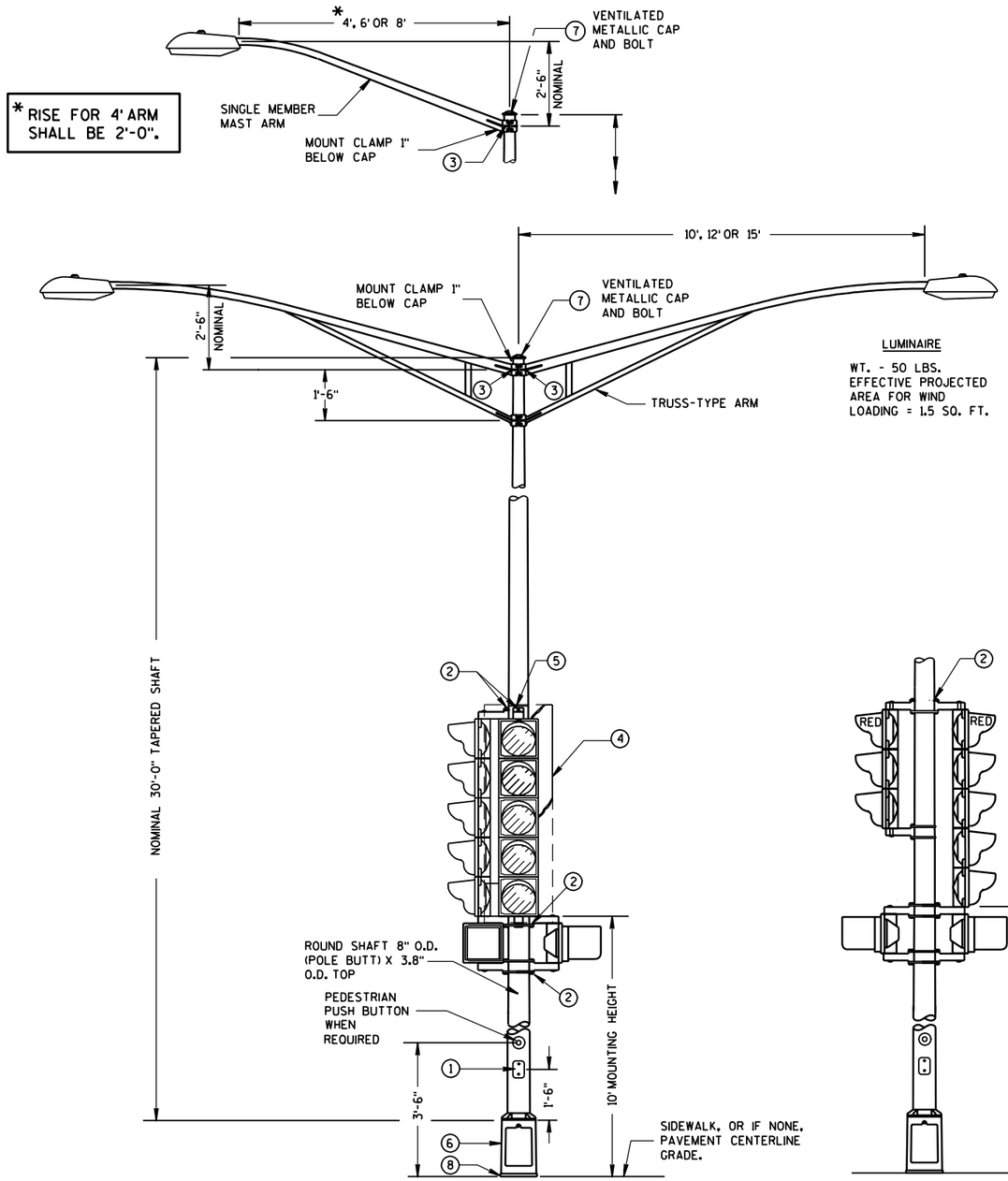
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

6

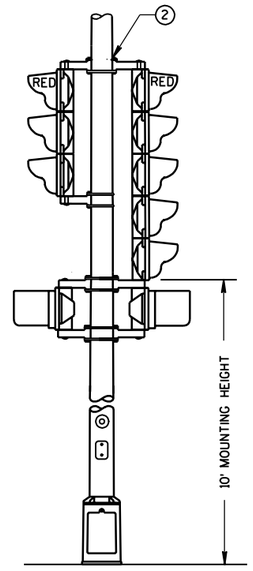
S.D.D. 9 E 1-6b

6

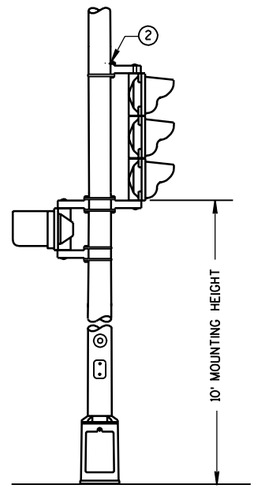
S.D.D. 9 E 1-6b



(MAXIMUM LOAD)

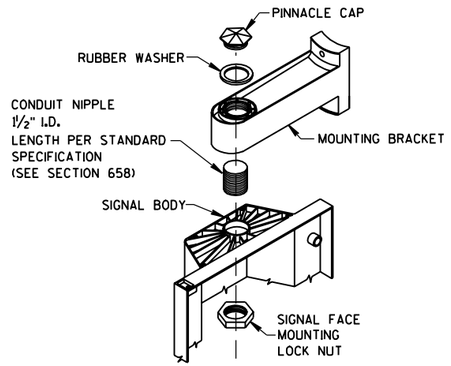


TYPICAL MOUNTING OF BACK TO BACK 3 AND 5 SECTION SIGNAL FACES



TYPICAL MOUNTING OF 3 SECTION SIGNAL FACE

TYPE 4 POLE MOUNTING CONFIGURATION



SIGNAL FACE MOUNTING DETAIL

(BANDED)

GENERAL NOTES

DETAILS OF CONSTRUCTION, MATERIALS AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE CONTRACT.

ALL TYPE 4 POLE MOUNTINGS SHALL BE DESIGNED TO INCLUDE TWIN 15' ARMS WITH LUMINAIRES.

POLES SHALL BE GALVANIZED STEEL WITH A MINIMUM WALL THICKNESS OF U.S. STANDARD 11 GAGE (.1196").

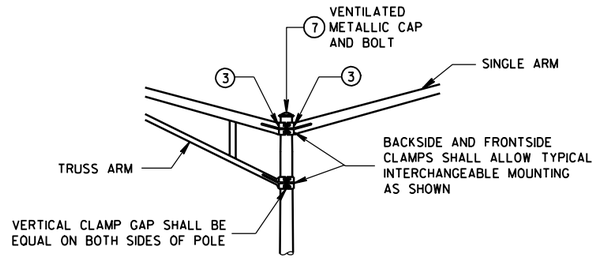
SECTION 657, POLES, OF THE STANDARD SPECIFICATIONS SHALL APPLY TO THIS DRAWING.

THE SLIPFITTER END OF THE LUMINAIRE MAST ARM SHALL BE A NOMINAL 2⅜ INCHES IN OUTSIDE DIAMETER. THE STRAIGHT PORTION OF THE SLIPFITTER END OF THE LUMINAIRE MAST ARM SHALL BE A NOMINAL 12 INCHES IN LENGTH.

WHEN TRANSFORMER BASES ARE USED, CONNECTIONS SHALL BE MADE IN THE TRANSFORMER BASE.

"TYPE 4" SHALL BE INDENT PRINTED WITH 1/2-INCH HIGH FIGURES ON TWO OPPOSITE EDGES OF POLE PLATE.

1. 4" X 6" REINFORCED HANDHOLE & COVER ASSEMBLY WITH 2 (TWO) ¼" X ¾" - 20 TPI HEX HEAD STAINLESS STEEL BOLTS.
2. SIGNAL FACE MOUNTING BRACKETS, MOUNT WITH CAP SCREWS AND BANDING. (SEE STANDARD SPECIFICATIONS - SEC. 658).
3. GROMMETS, 1" CHASE NIPPLES OR 1" CLOSE CONDUIT NIPPLES WITH BUSHINGS SHALL BE PROVIDED FOR 1⅜" HOLE IN POLE SHAFT FOR WIRING.
4. SECURELY MOUNT DULL BLACK POLYCARBONATE BACKPLATES, PROJECTING 5" BEYOND ALL SIDES OF THE SIGNAL FACE HOUSING, PER MANUFACTURER'S RECOMMENDATIONS.
5. POLE MOUNTED SIGNAL FACES SHALL REQUIRE 1 OR MORE MOUNTING SPACERS UNDER THE TOP MOUNTING BRACKET(S) AS REQUIRED, TO PLUMB THE SIGNAL FACE.
6. CAST ALUMINUM TRANSFORMER BASE, WHEN REQUIRED.
7. FURNISH AND INSTALL VENTILATED, CAST, METALLIC (ALUMINUM ALLOY) CAPS. FASTEN CAPS WITH ONE (1) ¼" X ¾" - 20 TPI STAINLESS STEEL, HEX HEAD BOLT.
8. SHIMMING, IF NEEDED, SHALL BE LOCATED BETWEEN THE CONCRETE FOUNDATION AND THE TRANSFORMER BASE.



INTERCHANGEABLE MOUNTING DETAIL

POLE MOUNTINGS FOR TRAFFIC SIGNALS AND LIGHTING UNITS, TYPE 4

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

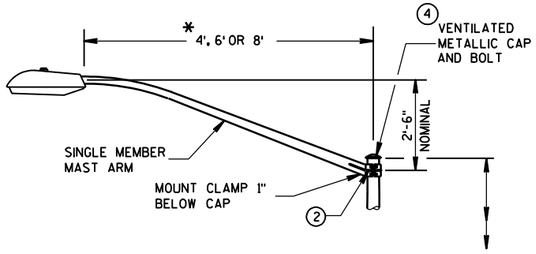
6

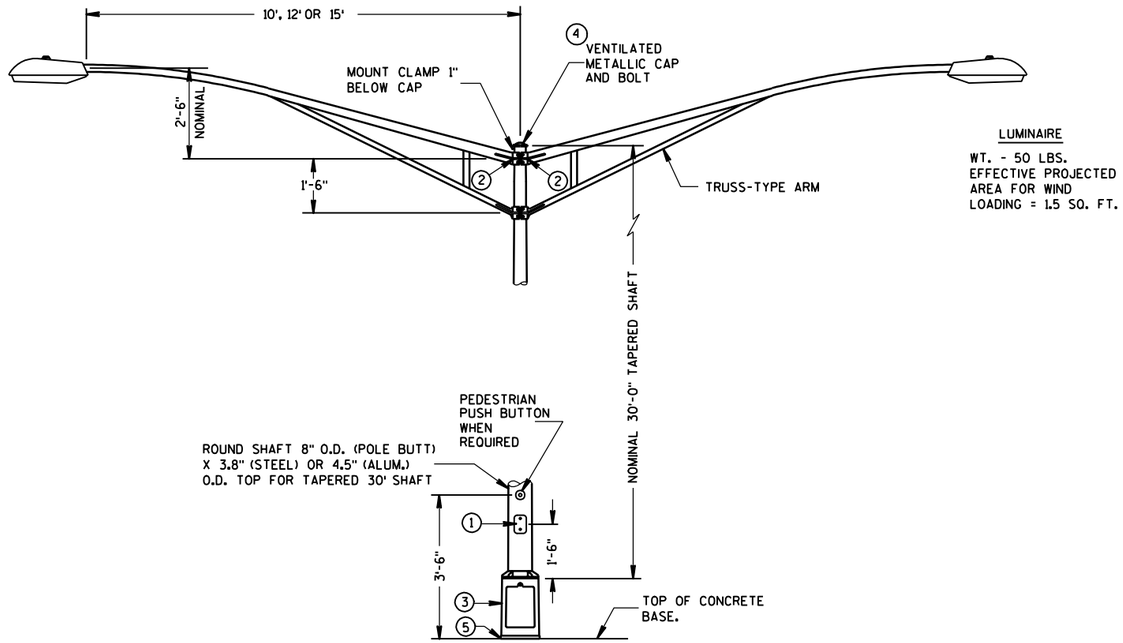
S.D.D. 9 E 1-8c

6

S.D.D. 9 E 1-8c

*RISE FOR 4' ARM SHALL BE 2'-0".

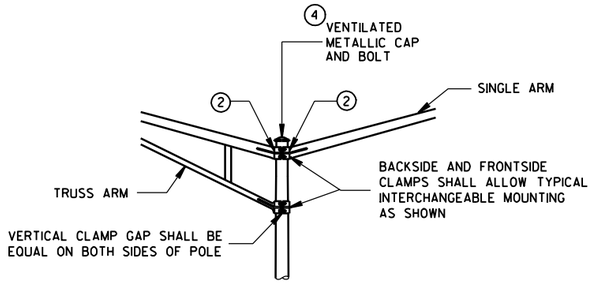




LUMINAIRE

WT. - 50 LBS.
EFFECTIVE PROJECTED AREA FOR WIND LOADING = 1.5 SQ. FT.

TYPE 5 POLE MOUNTING CONFIGURATION
(MAXIMUM LOAD)
LIGHTING ONLY



INTERCHANGEABLE MOUNTING DETAIL

GENERAL NOTES

DETAILS OF CONSTRUCTION, MATERIALS AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE CONTRACT.

ALL TYPE 5 POLE MOUNTINGS SHALL BE DESIGNED TO INCLUDE TWIN 15' ARMS WITH LUMINAIRES.

POLES SHALL BE GALVANIZED STEEL OR ALUMINUM, AS CALLED FOR IN THE CONTRACT.

TYPE 5 ALUMINUM POLES SHALL BE CONSTRUCTED OF 6063-T6 ALUMINUM ALLOY. SLEEVING INSIDE THE POLE IS NOT ACCEPTABLE.

THE TYPE 5 ALUMINUM POLES SHALL HAVE A MINIMUM WALL THICKNESS OF 0.188".

TYPE 5 STEEL POLES SHALL HAVE A MINIMUM WALL THICKNESS OF U.S. STANDARD 11 GAGE (.1196").

THE SLIPFITTER END OF THE LUMINAIRE MAST ARM SHALL BE A NOMINAL 2⅜ INCHES IN OUTSIDE DIAMETER. THE STRAIGHT PORTION OF THE SLIPFITTER END OF THE LUMINAIRE ARM SHALL BE A NOMINAL 12 INCHES IN LENGTH.

WHEN TRANSFORMER BASES ARE USED, WIRE CONEECTIONS SHALL BE MADE IN THE TRANSFORMER BASE.

1. 4" x 6" REINFORCED HANDHOLE & COVER ASSEMBLY WITH 2 (TWO) ¼" X ¾" - 20 TPI HEX HEAD STAINLESS STEEL BOLTS.
2. GROMMETS, 1" CHASE NIPPLES OR 1" CLOSE CONDUIT NIPPLES WITH BUSHINGS SHALL BE PROVIDED FOR 1⅜" HOLE IN POLE SHAFT FOR WIRING.
3. CAST ALUMINUM TRANSFORMER BASE, WHEN REQUIRED.
4. FURNISH AND INSTALL VENTILATED, CAST, METALLIC (ALUMINUM ALLOY) CAPS. FASTEN CAPS WITH ONE (1) ¼" X ¾" - 20 TPI STAINLESS STEEL, HEX HEAD BOLT.
5. SHIMMING, IF NEEDED, SHALL BE LOCATED BETWEEN THE CONCRETE FOUNDATION AND THE TRANSFORMER BASE.

POLE MOUNTINGS FOR LIGHTING UNITS, TYPE 5 (30 FEET)

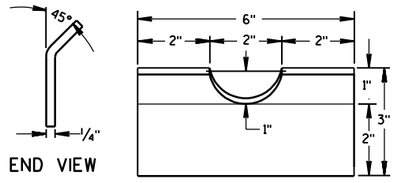
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

6

S.D.D. 9 E 1-6d

6

S.D.D. 9 E 1-6d

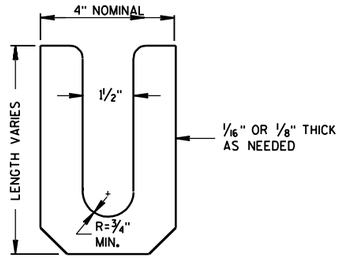


END VIEW

FRONT VIEW

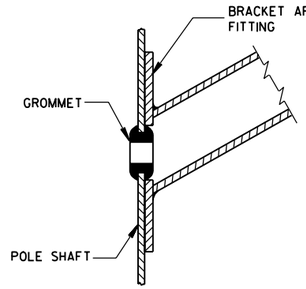
RECTANGULAR CLAMP SHIM

(4 TO A SET)

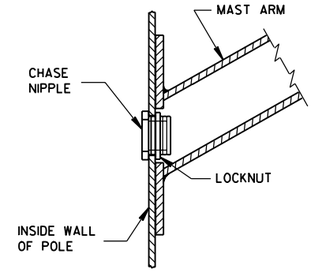


LEVELING SHIM (15)

SHALL BE ALUMINUM



TYPICAL APPLICATION OF GROMMET IN POLE SHAFT



TYPICAL APPLICATION OF CHASE NIPPLE IN POLE SHAFT

GENERAL NOTES

CLAMP BOLT-NUT TIGHTENING TORQUE SHALL BE INDICATED BY INDENT STAMPING (1/2 INCH NUMERALS AND LETTERS) OR WEATHERPROOF PRINTING ON THE INSIDE OF THE CLAMP THAT IS WELDED TO THE ARM MEMBER.

(10.) 4.5" I.D. FOR LUMINAIRE MAST ARM CLAMP.
6.625" I.D. FOR TROMBONE MAST ARM CLAMP.

(11.) INDIVIDUAL BASE PLATE ANCHOR ROD COVERS. (4 REQUIRED)

(12.) BASE PLATE SLOTTED TO ACCEPT 11" THROUGH 12" BOLT CIRCLE USING 1" DIAMETER ANCHOR RODS.

(13.) OUTSIDE SHIM DIAMETER - (4.5" O.D. FOR LUMINAIRE MAST ARM)
(6.625" O.D. FOR TROMBONE MAST ARM)

(14.) VARIABLE SHIM THICKNESS - (0.10", 0.25", 0.35", 0.53" OR 0.70")

SHIM THICKNESS FOR TROMBONE MAST ARMS MAY BE TYPICALLY 0.25", 0.35", 0.53" OR 0.70".

SHIM THICKNESS FOR LUMINAIRE MAST ARMS MAY BE TYPICALLY 0.10", 0.25" OR 0.35".

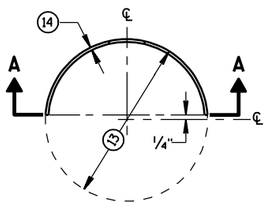
SHIM MATERIAL SHALL BE ALUMINUM ALLOY.

SHIM THICKNESS SHALL BE IMPRESSED INTO EACH SHIM. NUMERALS SHALL BE 1/4" HIGH AND LEGIBLE.

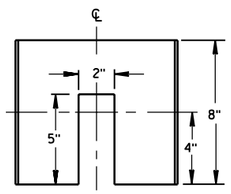
THE CONTRACTOR SHALL SUBMIT TWO COPIES OF ALL SHIM SHOP DRAWINGS TO THE ENGINEER FOR APPROVAL.

(15.) LEVELING SHIMS, DESIGNED FOR THE PURPOSE, SHALL BE USED WHEN PLUMBING POLES. THE USE OF WASHERS IN LIEU OF PROPER LEVELING SHIMS IS NOT ACCEPTABLE. LEVELING SHIMS SHALL BE USED ONLY BETWEEN THE TOP OF THE CONCRETE BASE AND A METALLIC BASE PLATE.

SHIMS SHALL BE LONG ENOUGH AND WIDE ENOUGH TO COMPLETELY COVER THE AREA UNDER THE LENGTH AND WIDTH OF THE BASE MOUNTING FLANGE.



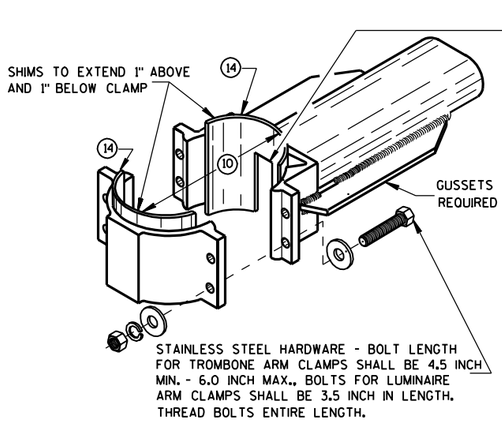
PLAN VIEW



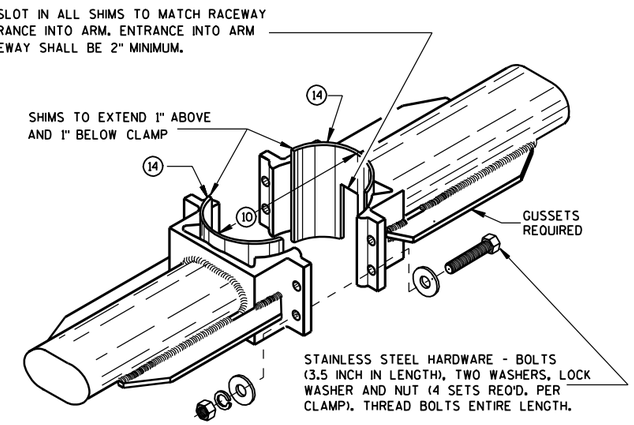
SECTION A-A

CIRCULAR CLAMP SHIM

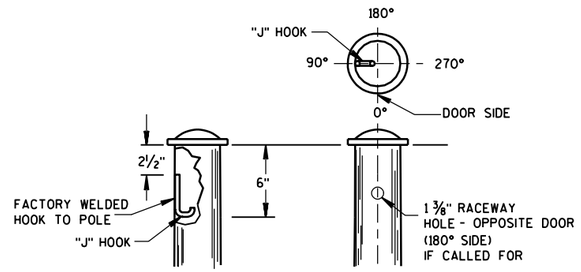
(2 TO A SET)



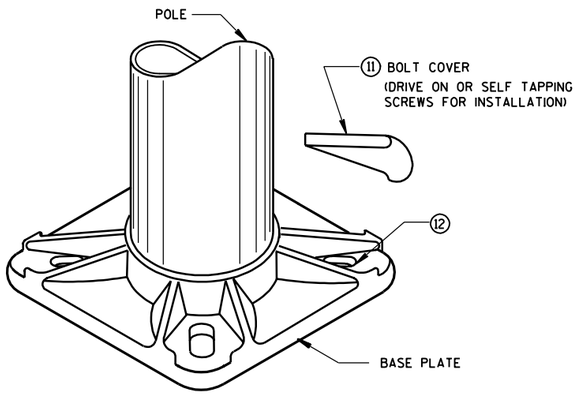
TYPICAL TROMBONE MAST ARM AND SINGLE LUMINAIRE MAST ARM MOUNTING CLAMP



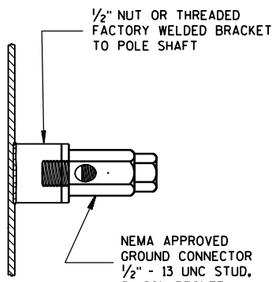
TYPICAL LUMINAIRE MAST ARM (DOUBLE) MOUNTING BRACKETS

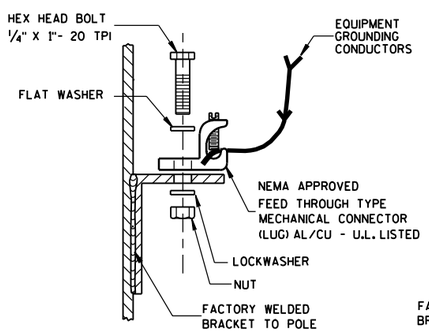


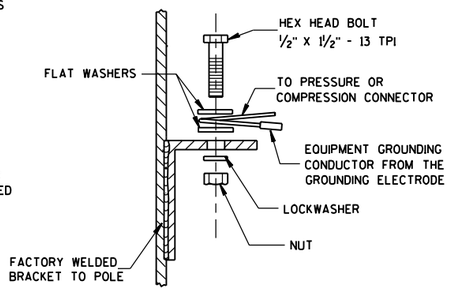
TYPICAL "J" HOOK LOCATION



BASE PLATE







TYPICAL GROUNDING CONNECTIONS

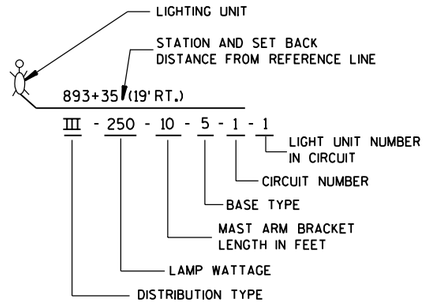
NUT, BOLT AND WASHERS SHALL BE STAINLESS STEEL

HARDWARE DETAILS FOR POLE MOUNTINGS

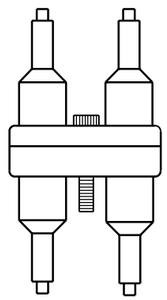
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
3/5/01
DATE
FHWA

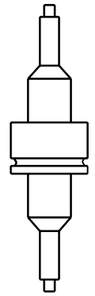
STATE ELECTRICAL ENGINEER FOR HIGHWAYS



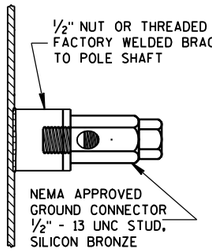
LIGHTING UNIT CODE
(TYPICAL)

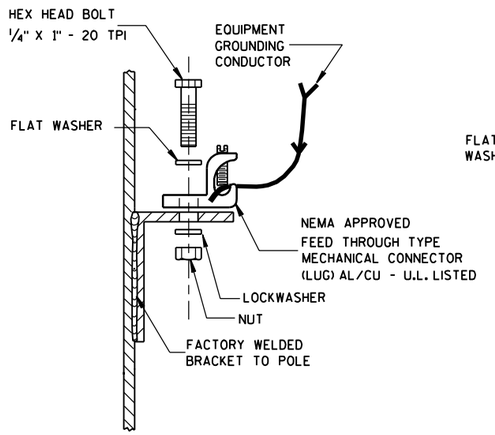


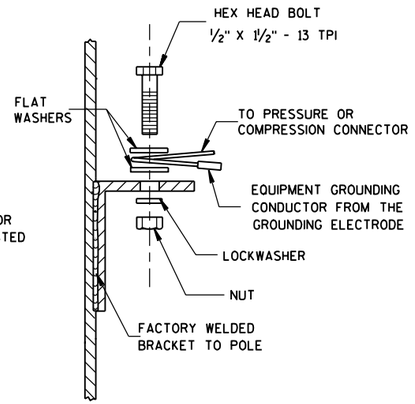
DETAIL "A"
DOUBLE POLE



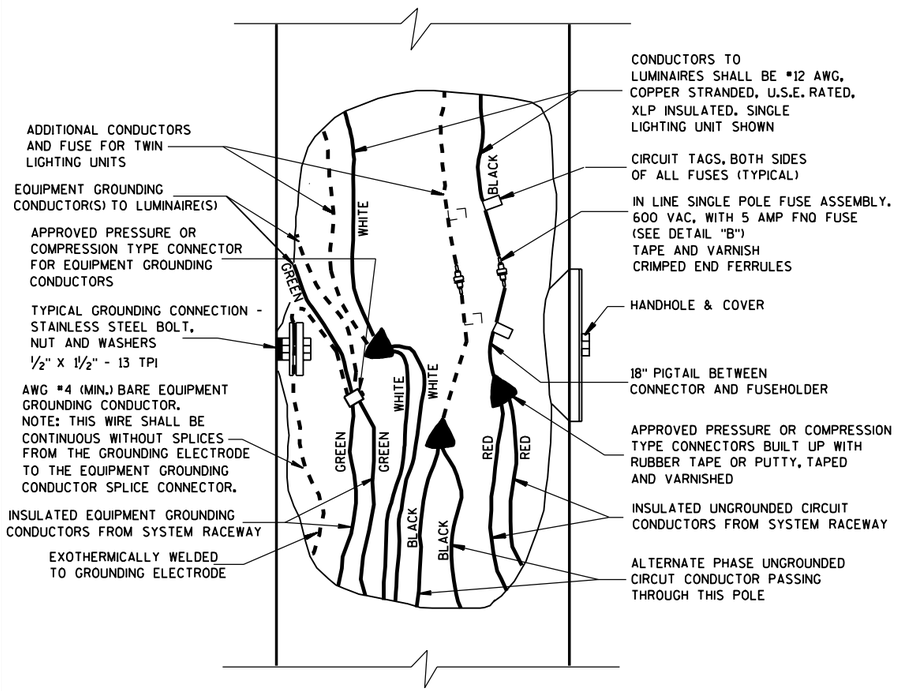
DETAIL "B"
SINGLE POLE



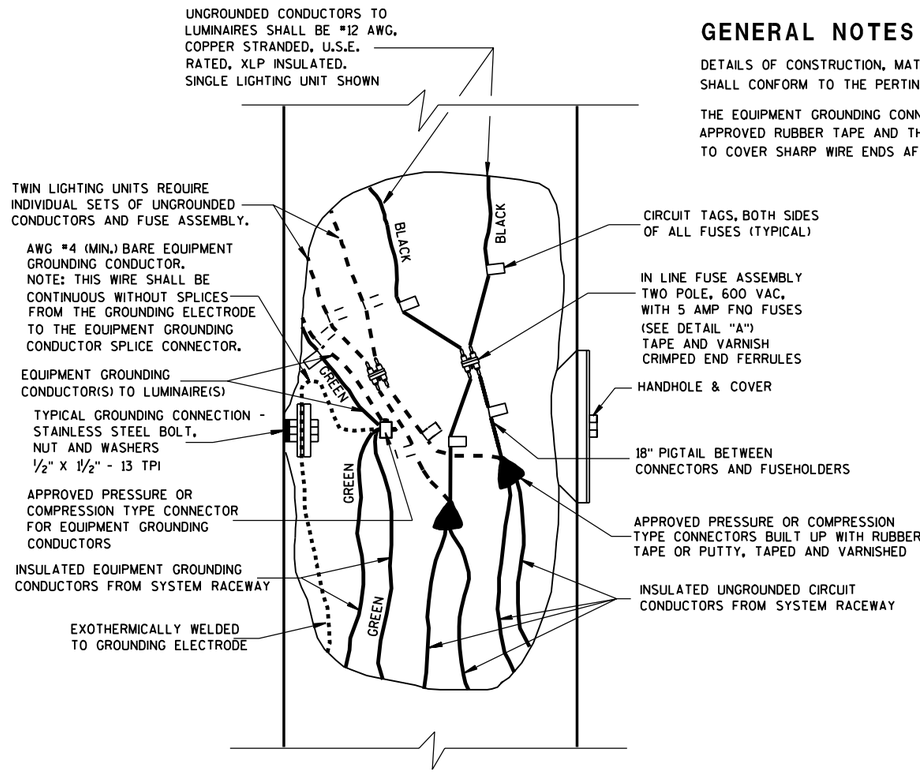




TYPICAL GROUNDING CONNECTIONS
NUT, BOLT, WASHERS AND LOCKWASHERS SHALL BE STAINLESS STEEL



3 WIRE - 120, 240 OR 480 VAC (UNGROUNDED CONDUCTOR)
WITH GROUNDED CONDUCTOR AND
WITH EQUIPMENT GROUNDING CONDUCTOR



2 WIRE - 240 OR 480 VAC (UNGROUNDED CONDUCTORS)
WITH EQUIPMENT GROUNDING CONDUCTOR

GENERAL NOTES

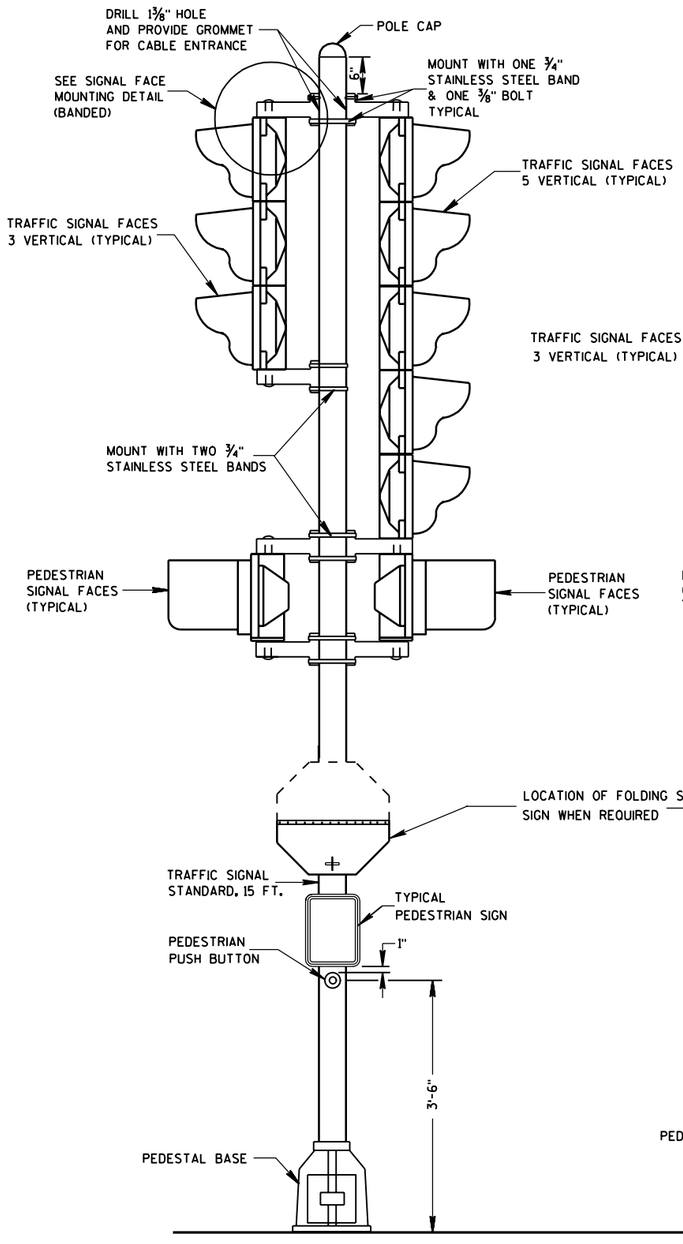
DETAILS OF CONSTRUCTION, MATERIALS AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE CONTRACT.

THE EQUIPMENT GROUNDING CONNECTOR SHALL BE TAPED WITH 3 WRAPS (MINIMUM) OF APPROVED RUBBER TAPE AND THEN 3 WRAPS (MINIMUM) OF APPROVED VINYL TAPE TO COVER SHARP WIRE ENDS AFTER THE CONNECTION IS COMPLETED.

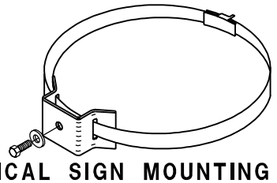
NON-FREEWAY LIGHTING UNIT POLE WIRING

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
10/21/96
DATE
STATE ELECTRICAL ENGINEER FOR HIGHWAYS
FHWA

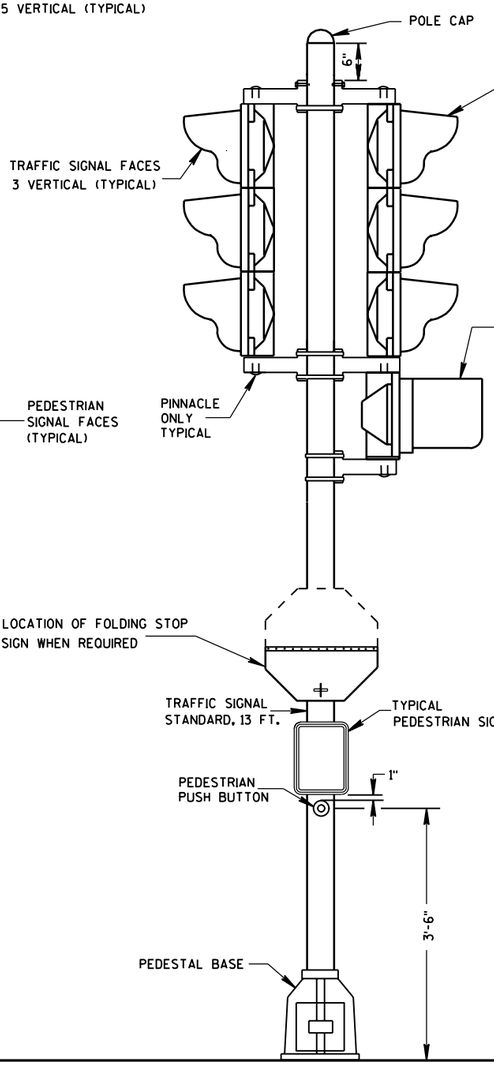


TRAFFIC SIGNAL STANDARD-15 FT.

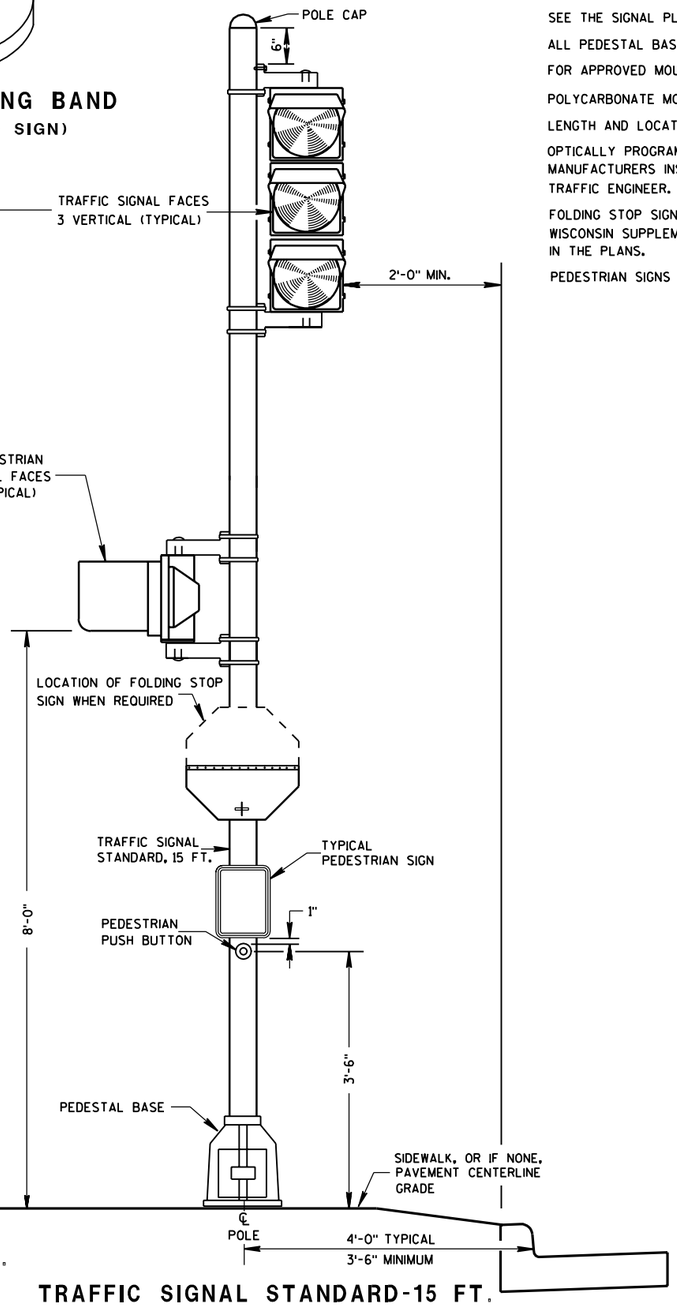


TYPICAL SIGN MOUNTING BAND

(TOP AND BOTTOM OF SIGN)



TRAFFIC SIGNAL STANDARD-13 FT.



TRAFFIC SIGNAL STANDARD-15 FT.

3M MOUNTING (TYPICAL)

GENERAL NOTES

DETAILS OF CONSTRUCTION, MATERIALS AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE CONTRACT.

SEE THE SIGNAL PLAN FOR REQUIRED SIGNAL FACE SIZES.

ALL PEDESTAL BASES SHALL BE MOUNTED ON CONCRETE BASE - TYPE 1.

FOR APPROVED MOUNTING HARDWARE, SEE THE CONTRACT SPECIAL PROVISIONS.

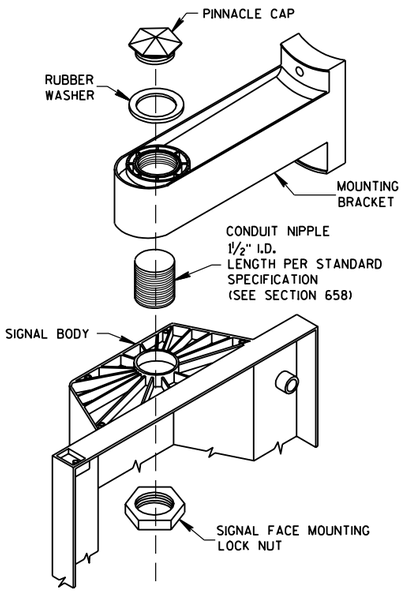
POLYCARBONATE MOUNTING BRACKETS SHALL BE USED.

LENGTH AND LOCATION OF TRAFFIC SIGNAL STANDARDS SHALL BE AS SHOWN ON THE PLANS.

OPTICALLY PROGRAMMED SIGNAL FACES SHALL BE MASKED IN ACCORDANCE WITH MANUFACTURERS INSTRUCTIONS, AND UNDER THE DIRECTIONS OF THE DISTRICT TRAFFIC ENGINEER.

FOLDING STOP SIGNS SHALL BE IN ACCORDANCE WITH THE MUTCD AND/OR THE LATEST WISCONSIN SUPPLEMENT. THE SIGNS SHALL BE SIZED AND LOCATED AS CALLED FOR IN IN THE PLANS.

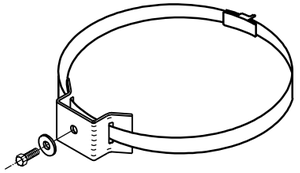
PEDESTRIAN SIGNS SHALL BE AS DESIGNATED IN THE PLANS.



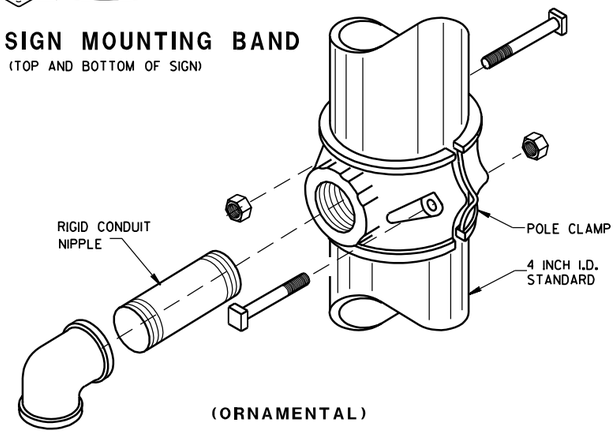
SIGNAL FACE MOUNTING DETAIL

(BANDED)

TRAFFIC SIGNAL STANDARD POLY BRACKET MOUNTINGS (TYPICAL) 13 FT. OR 15 FT.	
STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION	
APPROVED 5/26/05 DATE FHWA	/S/ Balu Ananthanarayanan STATE ELECTRICAL ENGINEER FOR HIGHWAYS



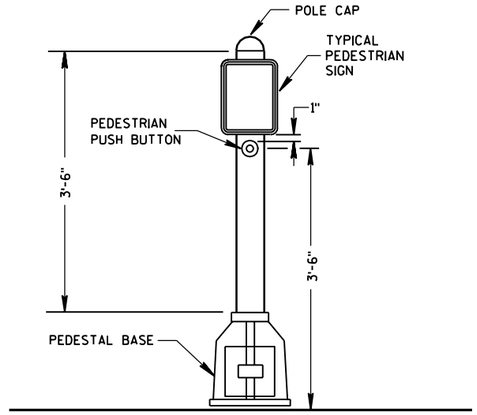
TYPICAL SIGN MOUNTING BAND
(TOP AND BOTTOM OF SIGN)



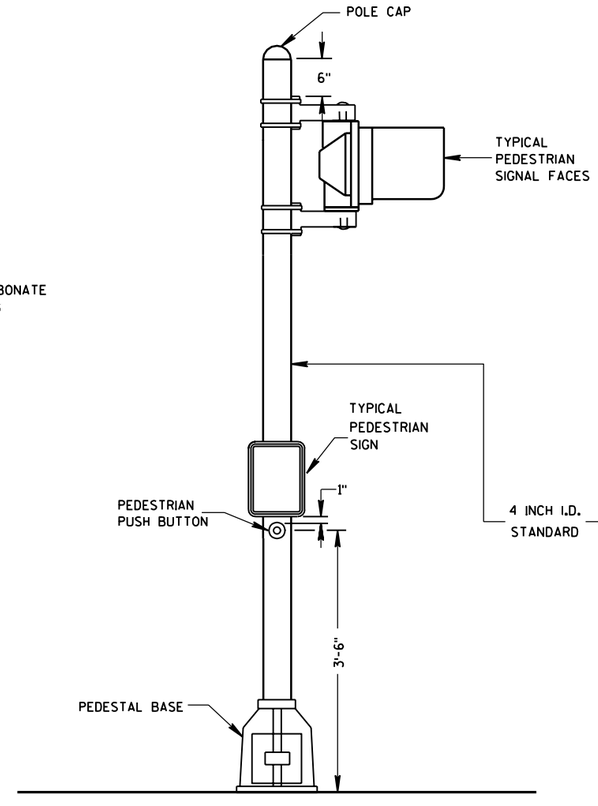
(ORNAMENTAL)

(BANDED)

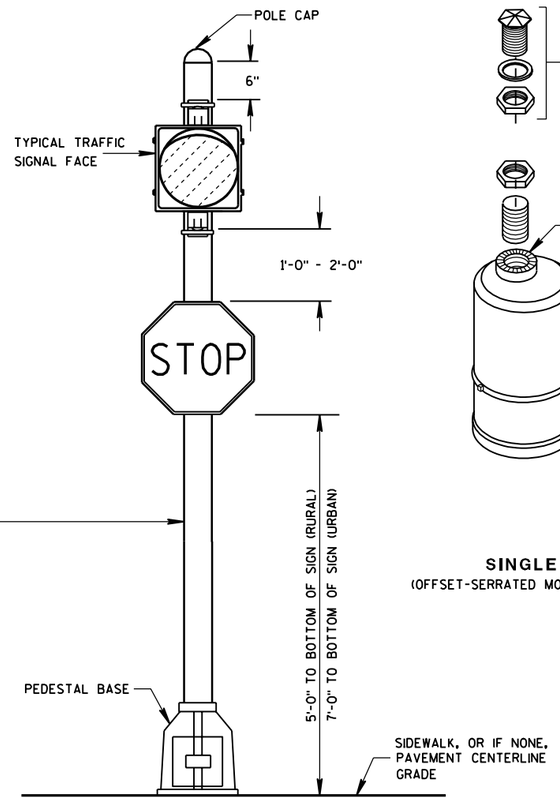
SIGNAL FACE MOUNTING DETAILS



PEDESTRIAN PUSH BUTTON TYPICAL MOUNTING



PEDESTRIAN FACE STANDARD-10 FT.
(WALK-DON'T WALK)



STANDARD FLASHER.
10 FOOT, 13 FOOT OR 15 FOOT AS REQUIRED

GENERAL NOTES

DETAILS OF CONSTRUCTION, MATERIALS AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE CONTRACT.

SEE THE SIGNAL PLAN FOR REQUIRED SIGNAL FACE SIZES.

LOCATIONS SHALL BE AS SHOWN ON THE PLANS.

ALL PEDESTAL BASES SHALL BE MOUNTED ON CONCRETE BASE - TYPE 1.

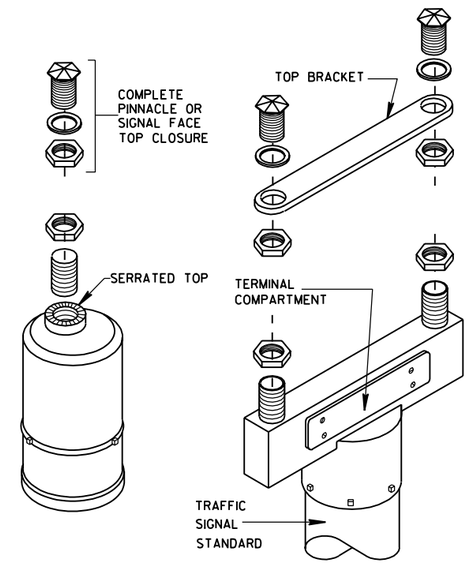
FOR APPROVED MOUNTING HARDWARE, SEE THE CONTRACT SPECIFICATIONS.

POLYCARBONATE SIGNAL FACE MOUNTING BRACKETS SHALL BE USED UNLESS ORNAMENTAL POLE CLAMPS ARE SPECIFIED.

LENGTH OF TRAFFIC STANDARDS SHALL BE AS SHOWN ON THE PLANS.

MOUNTINGS AND BRACKETS SHALL BE AS SHOWN ON THE PLANS OR DESCRIBED IN THE SPECIAL PROVISIONS (BY THE DISTRICT TRAFFIC ENGINEER).

PEDESTRIAN SIGNS SHALL BE AS DESIGNATED IN THE PLANS.



SINGLE
(OFFSET-SERRATED MOUNTING)

DOUBLE
(SERRATED MOUNTING)

SLIPFITTERS

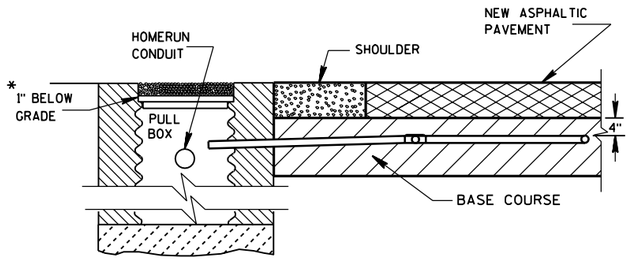
TRAFFIC SIGNAL STANDARD
PEDESTRIAN AND FLASHER
TYPICAL MOUNTING DETAILS

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
5/26/05 — DATE
/S/ Balu Ananthanarayanan — STATE ELECTRICAL ENGINEER FOR HIGHWAYS
FHWA

6

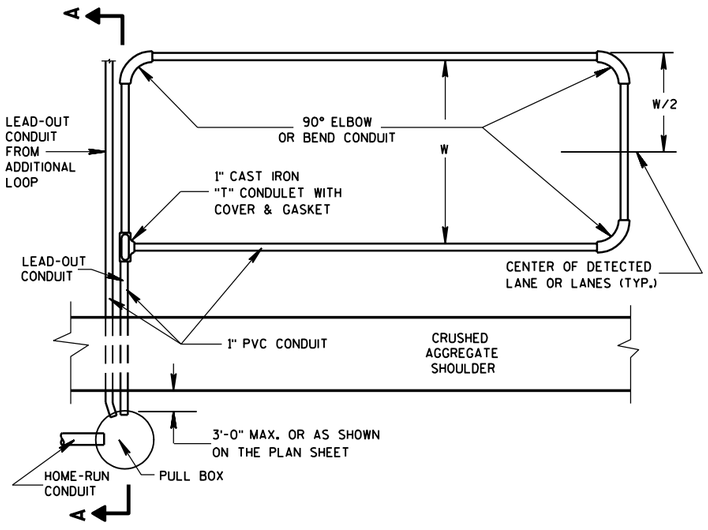
S.D.D. 9 E 7-3



SECTION A-A
NO CURB & GUTTER

DETECTOR LOOP INSTALLATION DETAIL

*RECESS PULL BOX SO THAT THE COVER IS 3" BELOW GRADE IN SHOULDER AREAS OF CRUSHED AGGREGATE. BACKFILL OVER COVER WITH THE CRUSHED AGGREGATE TO BRING THE AREA TO GRADE LEVEL.



TYPICAL PLAN OF LOOP DETECTOR

GENERAL NOTES

DETAILS OF CONSTRUCTION, MATERIALS AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE CONTRACT.

LOOP SIZE, LOCATION, NUMBER OF TURNS OF WIRE AND ASSOCIATED SIGNAL PHASE SHALL BE AS SHOWN ON THE PLANS.

PITCH LEAD-OUT CONDUIT TO DRAIN TO ROADSIDE PULL BOX.

SPLICES SHALL BE INSTALLED BY USING CAST IN PLACE SPLICE KITS SUCH AS 3M TYPE 82A1 OR APPROVED EQUAL. NON-INSULATED BUTT SPLICES TO FIT #12 AWG STRANDED WIRE SHALL BE USED. SPLICES SHALL BE SOLDERED AND INSULATED FROM EACH OTHER AS PER INSTRUCTIONS INCLUDED IN THE SPLICE KIT.

MEASURE GROUND RESISTANCE USING A MEGGER. REPLACE LOOP WIRE NOT ATTAINING A READING OF INFINITY TO GROUND.

AFTER SPLICING THE LOOP WIRE TO THE LOOP LEAD-IN CABLE, THE CONTRACTOR SHALL MEASURE INDUCTANCE, GROUND RESISTANCE AND WIRE RESISTANCE AT THE CABINET END OF THE LEAD-IN CABLE AND FURNISH A COPY OF THE READINGS TO THE PROJECT ENGINEER FOR EVALUATION.

ANTI-SIEZE LUBRICATING MATERIAL SHALL BE USED ON ALL THREADS OF THREADED ASSEMBLIES BEFORE INSTALLATION.

LOOP DETECTOR LEADS SHALL BE IDENTIFIED WITH THEIR ASSOCIATED LOOP BY USE OF WATERPROOF TAGS AT BOTH ENDS OF THE CABLE. A LISTING OF THE CABLE IDENTIFICATION PER INDIVIDUAL LOOP LEAD-IN SHALL BE PLACED IN THE CABINET.

THE #12 AWG LOOP WIRE FROM THE LOOP TO THE ROADSIDE PULL BOX, SHALL BE HAND TWISTED AT LEAST 3 TWISTS PER FOOT BEFORE INSTALLATION.

SPLICES OF LOOP WIRE TO LEAD-IN CABLE SHALL BE MADE ONLY IN PULL BOXES AT THE SIDE OF THE ROAD.

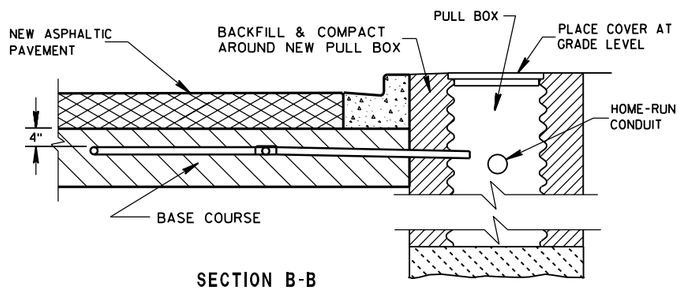
THE #12 AWG LOOP WIRE SHALL BE INSTALLED FROM THE ROADSIDE PULL BOX, THROUGH THE LOOP DUCT, BACK TO THE ROADSIDE PULL BOX, AND BE INSTALLED IN ONE, NON-SPLICED, CONTINUOUS LENGTH.

PROTECTION OF THE CONDUIT AND CONDULET SHALL BE REQUIRED AFTER INSTALLATION AND BEFORE THE ASPHALTIC PAVEMENT IS PLACED.

WHEN MULTIPLE LAYERS OF ASPHALTIC PAVEMENT ARE TO BE PLACED, LOOPS MAY BE INSTALLED BY SAWING A TWO INCH WIDE SLOT IN THE FIRST LAYER, DIG OUT THE ASPHALTIC MATERIAL AND BASE COURSE, PLACE THE LOOP, FILL THE SLOT WITH BASE COURSE MATERIAL AND NEW ASPHALTIC MATERIAL AND TAMP THE ASPHALTIC MATERIAL IN PLACE.

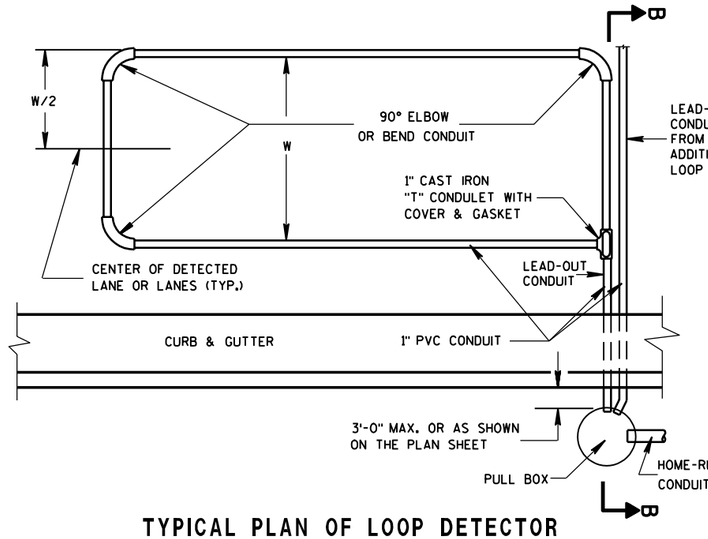
SHOULD TRAFFIC BE ALLOWED TO USE THE AREA OF ROADWAY WITH THE NEWLY INSTALLED LOOP BEFORE THE PLACEMENT OF THE NEXT LAYER OF ASPHALTIC PAVEMENT, THE SLOT/PAVEMENT OPENING SHALL BE SEALED WITH HOT POURED ELASTIC TYPE MATERIAL CONFORMING TO THE REQUIREMENTS OF THE "SPECIFICATION FOR JOINT SEALANTS, HOT POURED, FOR CONCRETE AND ASPHALT PAVEMENTS, ASTM DESIGNATION: D3405".

DRIVE A 1½" MAX. PK NAIL INTO THE NEW ASPHALTIC PAVEMENT AND DIRECTLY ABOVE THE CONDULET AFTER THE FINAL LAYER OF NEW ASPHALTIC PAVEMENT IS COMPLETELY INSTALLED, IF REQUIRED BY THE DISTRICT TRAFFIC SECTION.



SECTION B-B
CURB & GUTTER

LOOP DETECTOR INSTALLATION DETAIL



TYPICAL PLAN OF LOOP DETECTOR

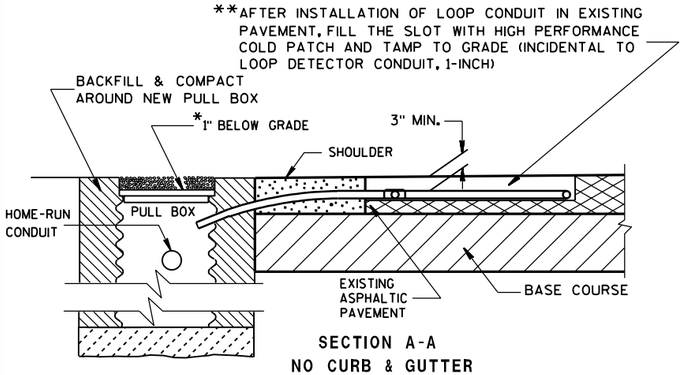
LOOP DETECTOR PLACED
IN CRUSHED AGGREGATE BASE
(NEW ASPHALTIC PAVEMENT)

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
6/7/06 — DATE
/S/ Balu Ananthanarayanan — STATE ELECTRICAL ENGINEER FOR HIGHWAYS
FHWA

6

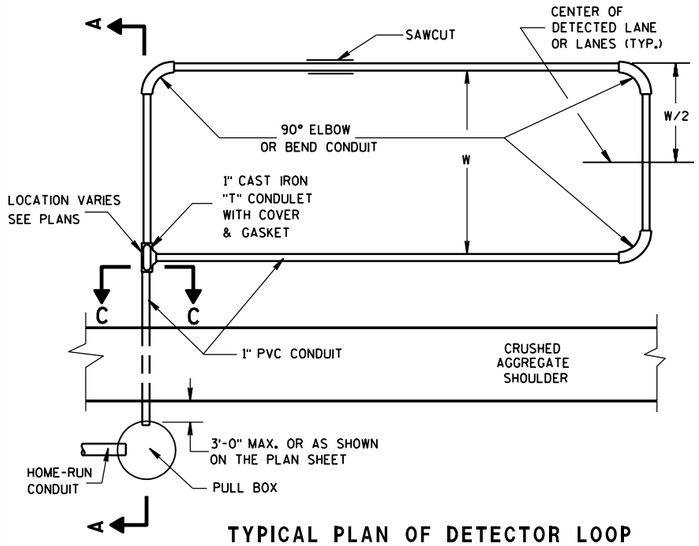
S.D.D. 9 F 8-3



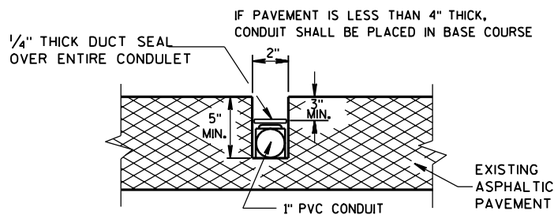
SECTION A-A
NO CURB & GUTTER

TYPICAL PLAN OF LOOP DETECTOR

*RECESS PULL BOX SO THAT THE COVER IS 3" BELOW GRADE IN SHOULDER AREAS OF CRUSHED AGGREGATE. BACKFILL OVER COVER WITH THE CRUSHED AGGREGATE TO BRING THE AREA TO GRADE LEVEL.



TYPICAL PLAN OF DETECTOR LOOP



SIDE VIEW
SECTION C-C

LOOP DETECTOR SLOT DETAIL

GENERAL NOTES

DETAILS OF CONSTRUCTION, MATERIALS AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE CONTRACT.

LOOP SIZE, LOCATION, NUMBER OF TURNS OF WIRE AND ASSOCIATED SIGNAL PHASE SHALL BE AS SHOWN ON THE PLANS.

PITCH LEAD OUT CONDUIT TO DRAIN TO ROADSIDE PULL BOX.

SPLICES SHALL BE INSTALLED BY USING CAST IN PLACE SPLICE KITS SUCH AS 3M TYPE 82A1 OR APPROVED EQUAL. NON-INSULATED BUTT SPLICES TO FIT #12 AWG STRANDED WIRE SHALL BE USED. SPLICES SHALL BE SOLDERED AND INSULATED FROM EACH OTHER AS PER INSTRUCTIONS INCLUDED IN THE SPLICE KIT.

MEASURE GROUND RESISITANCE USING A MEGGER. REPLACE LOOP WIRE NOT ATTAINING A READING OF INFINITY TO GROUND.

AFTER SPLICING THE LOOP WIRE TO THE LOOP LEAD-IN CABLE, THE CONTRACTOR SHALL MEASURE INDUCTANCE, GROUND RESISTANCE AND WIRE RESISTANCE AT THE CABINET END OF THE LEAD-IN CABLE AND FURNISH A COPY OF THE READINGS TO THE PROJECT ENGINEER FOR EVALUATION.

ANTI-SIEZE LUBRICATING MATERIAL SHALL BE USED ON ALL THREADS OF THREADED ASSEMBLIES BEFORE INSTALLATION.

LOOP DETECTOR LEADS SHALL BE IDENTIFIED WITH THEIR ASSOCIATED LOOP BY USE OF WATERPROOF TAGS AT BOTH ENDS OF THE CABLE. A LISTING OF THE CABLE IDENTIFICATION PER INDIVIDUAL LOOP LEAD-IN SHALL BE PLACED IN THE CABINET.

THE #12 AWG LOOP WIRE FROM THE LOOP TO THE ROADSIDE PULL BOX, SHALL BE HAND TWISTED AT LEAST 3 TWISTS PER FOOT BEFORE INSTALLATION.

SPLICES OF LOOP WIRE TO LEAD-IN CABLE SHALL BE MADE ONLY IN PULL BOXES AT THE SIDE OF THE ROAD.

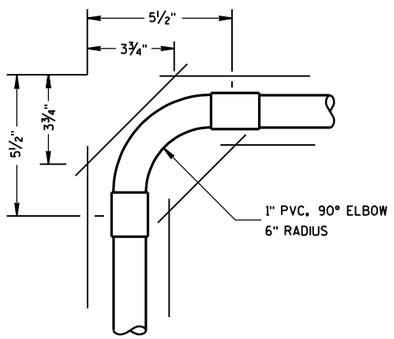
THE #12 AWG LOOP WIRE SHALL BE INSTALLED FROM THE ROADSIDE PULL BOX, THROUGH THE LOOP CONDUIT, BACK TO THE ROADSIDE PULL BOX, AND BE INSTALLED IN ONE, NON-SPLICED, CONTINUOUS LENGTH.

IN THE EVENT THAT THE EXISTING PAVEMENT IS MORE THAN 5 INCHES THICK, AND THEREFORE , THE 1 INCH CONDUIT DOES NOT REQUIRE INSTALLATION BELOW THE PAVEMENT INTO THE BASE COURSE, PLACE SOME OF THE TAR OR EPOXY SEALANT IN THE SLOT TO A DEPTH OF APPROXIMATELY ½ INCH BEFORE INSTALLATION OF THE CONDUIT. IF THE CONDUIT MUST BE PLACED IN THE BASE COURSE, DO NOT PLACE THE TAR OR EPOXY SEALANT IN THE SLOT.

ONCE THE 2" LOOP SLOT HAS BEEN CHIPPED OUT, THE LOOP INSTALLATION SHALL BE COMPLETED PRIOR TO OPENING THE LANE(S) TO TRAFFIC.

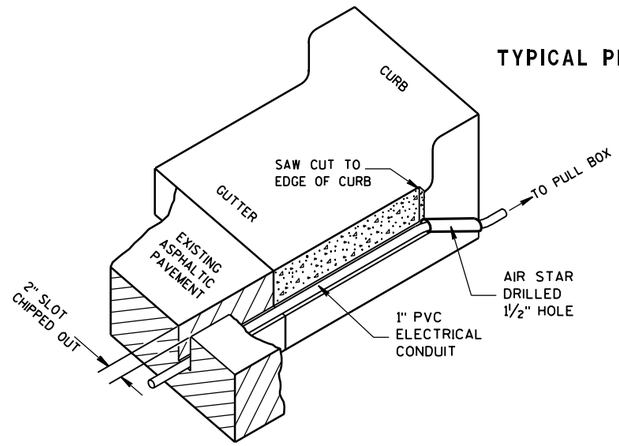
** AFTER THE HIGH PERFORMANCE COLD PATCH HAS BEEN TAMPED, SEAL THE SLOT/HIGH PERFORMANCE COLD PATCH/ PAVEMENT OPENING WITH HOT POURED ELASTIC TYPE MATERIAL CONFORMING TO THE REQUIREMENTS OF THE "SPECIFICATION FOR JOINT SEALANTS, HOT POURED, FOR CONCRETE AND ASPHALT PAVEMENTS, ASTM DESIGNATION: D3405".

IN THE EVENT HIGH PERFORMANCE COLD PATCH IS NOT AVAILABLE, AND FLEXIBLE TYPE EPOXY IS USED AS A LOOP SLOT FILLER, THE 2 INCH SLOT SHALL BE TOTALLY CLEAN AND DRY BEFORE ITS INSTALLATION. EPOXY USE SHALL BE APPROVED BY THE DISTRICT TRAFFIC ENGINEER AND THE FURNISHED EPOXY SHALL BE INSTALLED AFTER WRITTEN APPROVAL BY THE PROJECT ENGINEER.



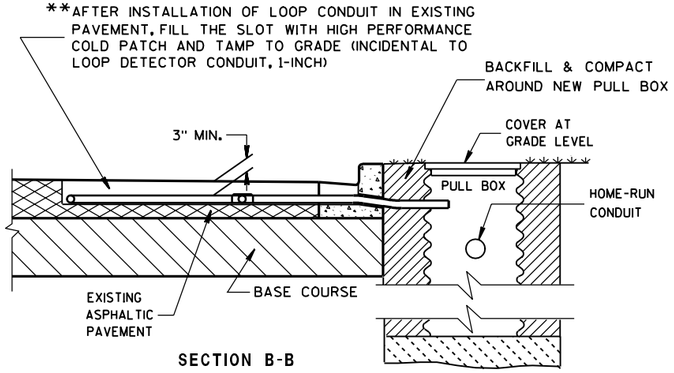
TOP VIEW

CORNER SAW SLOT DETAIL



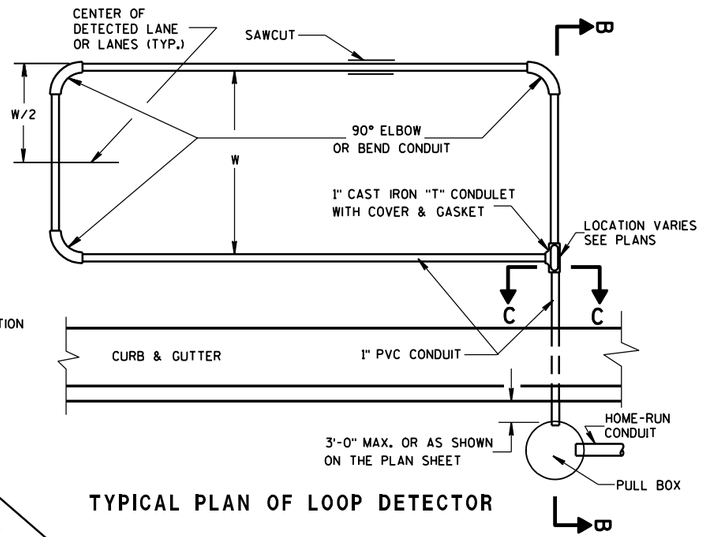
ISOMETRIC VIEW

TYPICAL SAW CUT DETAIL FOR LEAD-IN CONDUIT



SECTION B-B
CURB & GUTTER

LOOP DETECTOR INSTALLATION DETAIL



TYPICAL PLAN OF LOOP DETECTOR

LOOP DETECTOR INSTALLED IN EXISTING ASPHALTIC PAVEMENT

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

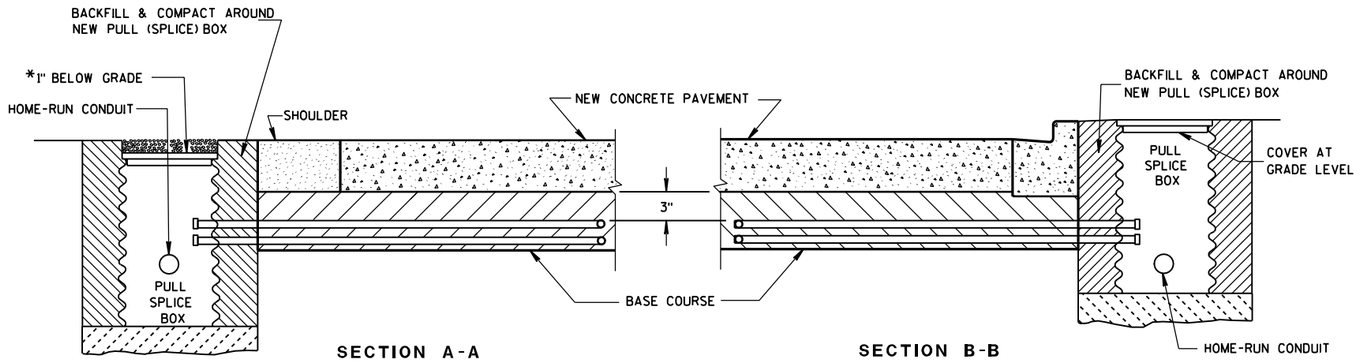
APPROVED
6/7/06 — DATE
/S/ Balu Ananthanarayanan — STATE ELECTRICAL ENGINEER FOR HIGHWAYS
FHWA

6

S.D.D. 9 F 13-3

6

S.D.D. 9 F 13-3



SECTION A-A
NO CURB & GUTTER

SECTION B-B
CURB & GUTTER

*RECESS PULL (SPLICE) BOX SO THAT THE COVER IS 3" BELOW GRADE IN SHOULDER AREAS OF CRUSHED AGGREGATE. BACKFILL OVER COVER WITH THE CRUSHED AGGREGATE TO BRING THE AREA TO GRADE LEVEL.

LOOP DETECTOR INSTALLATION DETAIL

GENERAL NOTES

DETAILS OF CONSTRUCTION, MATERIALS AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE CONTRACT.

LOOP SIZE, CONFIGURATION LOCATION, NUMBER OF TURNS OF WIRE AND ASSOCIATED SIGNAL PHASE SHALL BE AS SHOWN ON THE PLANS.

PITCH LEAD OUT CONDUIT TO DRAIN TO ROADSIDE PULL (SPLICE) BOX.

SPLICES SHALL BE INSTALLED BY USING CAST IN PLACE SPLICE KITS SUCH AS 3M TYPE 82A1 OR APPROVED EQUAL. NON-INSULATED BUTT SPLICES TO FIT #12 AWG STRANDED WIRE SHALL BE USED. SPLICES SHALL BE SOLDERED AND INSULATED FROM EACH OTHER AS PER INSTRUCTIONS INCLUDED IN THE SPLICE KIT.

MEASURE GROUND RESISTANCE USING A MEGGER. REPLACE LOOP WIRE NOT ATTAINING A READING OF INFINITY TO GROUND.

AFTER SPLICING THE LOOP WIRE TO THE LOOP LEAD-IN CABLE, THE CONTRACTOR SHALL MEASURE INDUCTANCE, GROUND RESISTANCE AND WIRE RESISTANCE AT THE CABINET END OF THE LEAD-IN CABLE AND FURNISH A COPY OF THE READINGS TO THE PROJECT ENGINEER FOR EVALUATION.

LOOP DETECTOR LEADS SHALL BE IDENTIFIED WITH THEIR ASSOCIATED LOOP BY USE OF WATERPROOF TAGS AT BOTH ENDS OF THE CABLE. A LISTING OF THE CABLE IDENTIFICATION PER INDIVIDUAL LOOP LEAD-IN SHALL BE PLACED IN THE CABINET.

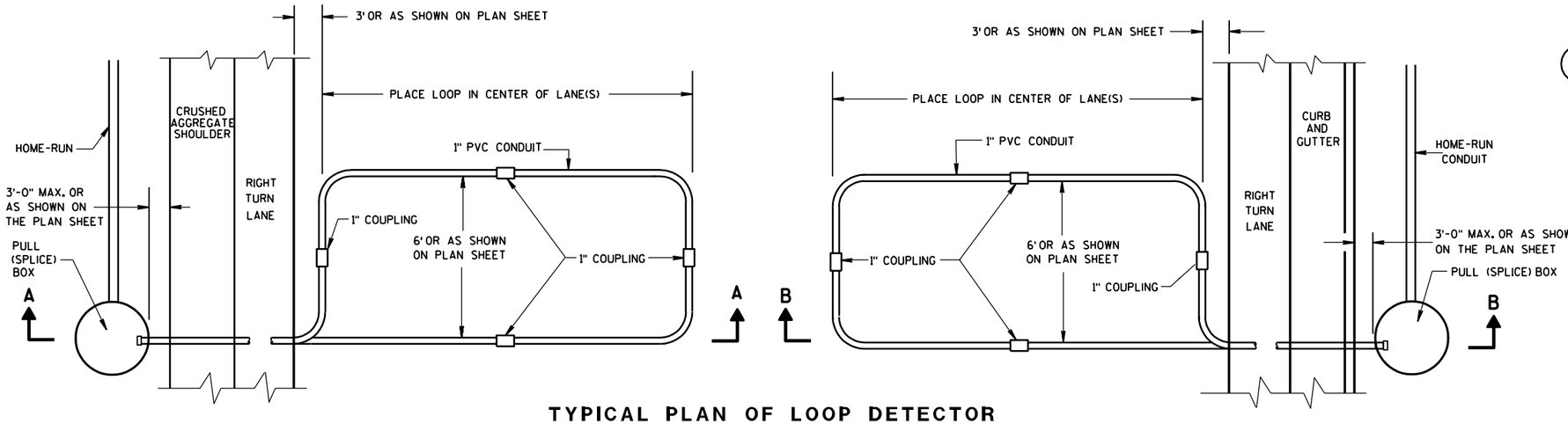
THE #12 AWG. LOOP WIRE IN THE PULL (SPLICE) BOX SHALL BE HAND TWISTED AT LEAST 3 TWISTS PER FOOT BEFORE BEING SPLICED TO THE LOOP LEAD-IN CABLE.

SPLICES OF LOOP WIRE TO LEAD-IN CABLE SHALL BE MADE ONLY IN PULL (SPLICE) BOXES AT THE SIDE OF THE ROAD.

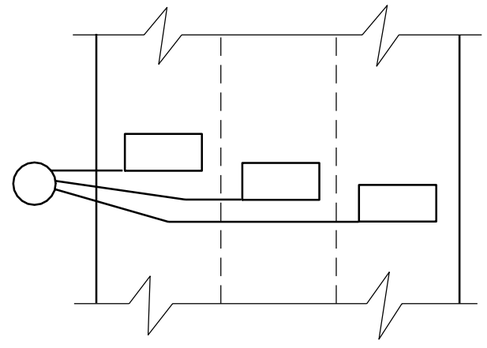
THE #12 AWG LOOP WIRE SHALL BE INSTALLED FROM THE ROADSIDE PULL (SPLICE) BOX, THROUGH THE LOOP CONDUIT, BACK TO THE ROADSIDE PULL (SPLICE) BOX, AND BE INSTALLED IN ONE, NON-SPLICED CONTINUOUS LENGTH.

PROTECTION OF THE CONDUITS IN THE BASE COURSE SHALL BE REQUIRED AFTER INSTALLATION AND BEFORE NEW PAVEMENT IS INSTALLED.

SHOULD INSTALLATION REPAIR BE REQUIRED, IT SHALL BE DONE UNDER THE DIRECTION OF THE PROJECT ENGINEER.



TYPICAL PLAN OF LOOP DETECTOR WITH 24" PULL (SPLICE) BOX



MULTI-LANE INSTALLATION

LOOP DETECTOR INSTALLED IN BASE COURSE WITH PULL (SPLICE) BOX OFF ROADWAY (OPTION 2)	
STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION	
APPROVED	
6/7/06 DATE	/S/ Balu Ananthanarayanan STATE ELECTRICAL ENGINEER FOR HIGHWAYS
FHWA	

6

S.D.D. 9 F 15-3b

6

S.D.D. 9 F 15-3b

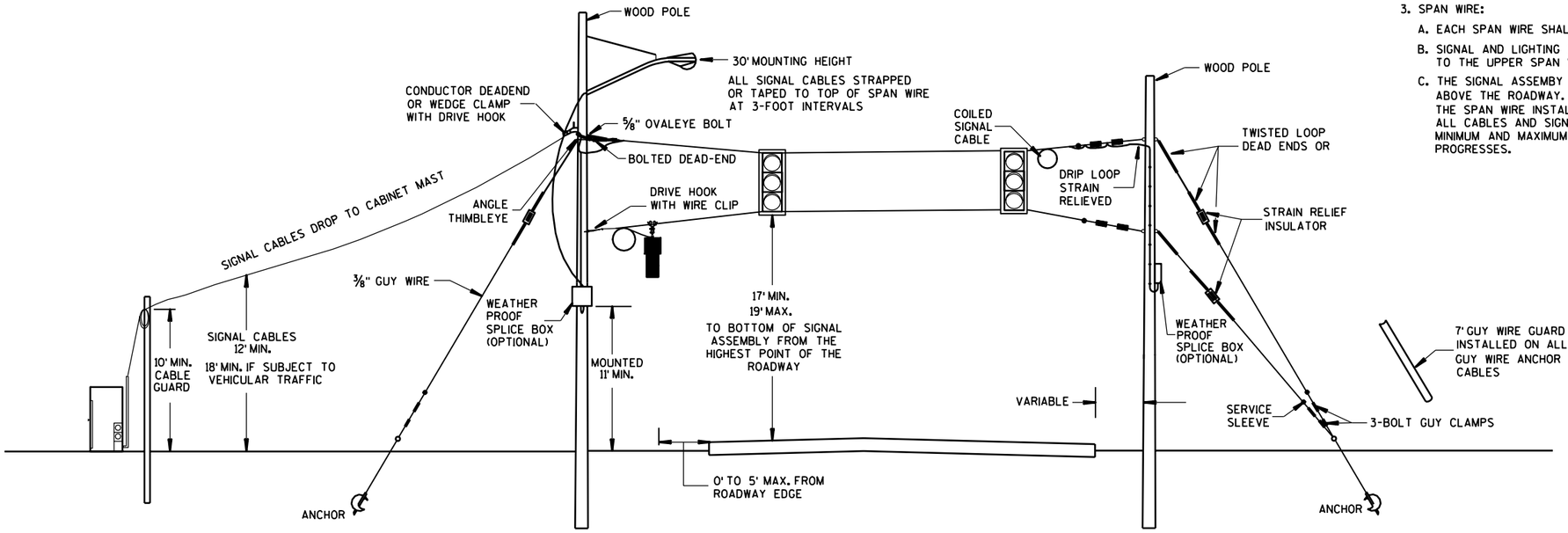
GENERAL NOTES

DETAILS OF CONSTRUCTION, MATERIALS AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE CONTRACT.

1. WOOD POLES SHALL BE CLASS 4. LENGTH DETERMINED BY SIGNAL PLAN.

2. SIGNAL FACES:
   A. ALL SECTIONS SHALL BE 12" AND POLYCARBONATE.
   B. EACH SHALL CONTAIN A 5" WIDE DULL BLACK POLYCARBONATE BACKPLATE.
   C. EACH SHALL BE WIRED FROM THE TOP SIGNAL MOUNTING BRACKET.
   D. NEAR RIGHT SIGNAL FACE SUSPENDED ON THE TETHER (NO BACKPLATE) SHALL NOT BE OVER THE TRAVELED WAY. IF THE POLE IS WITHIN 5 FEET OF THE TRAVELED WAY MOUNT THE SIGNAL FACE ON THE WOOD POLE WITH BACKPLATE.

3. SPAN WIRE:
   A. EACH SPAN WIRE SHALL BE INDIVIDUALLY DOWN GUYED.
   B. SIGNAL AND LIGHTING CABLES SHALL ONLY BE ATTACHED TO THE UPPER SPAN WIRE.
   C. THE SIGNAL ASSEMBY SHALL HAVE A 17' MIN. HEIGHT ABOVE THE ROADWAY. THIS SHALL BE MEASURED AFTER THE SPAN WIRE INSTALLATION IS COMPLETED WITH ALL CABLES AND SIGNAL FACES IN PLACE. MAINTAIN MINIMUM AND MAXIMUM HEIGHTS AS ROADWAY WORK PROGRESSES.



SPAN WIRE
TEMPORARY SIGNALS

MINIMUM POLE LENGTHS	POLE BURIEL DEPTHS
25'	5'
30'	6'
35'	7'
40'	8'
45'	9'

SPAN WIRE
TEMPORARY TRAFFIC SIGNAL

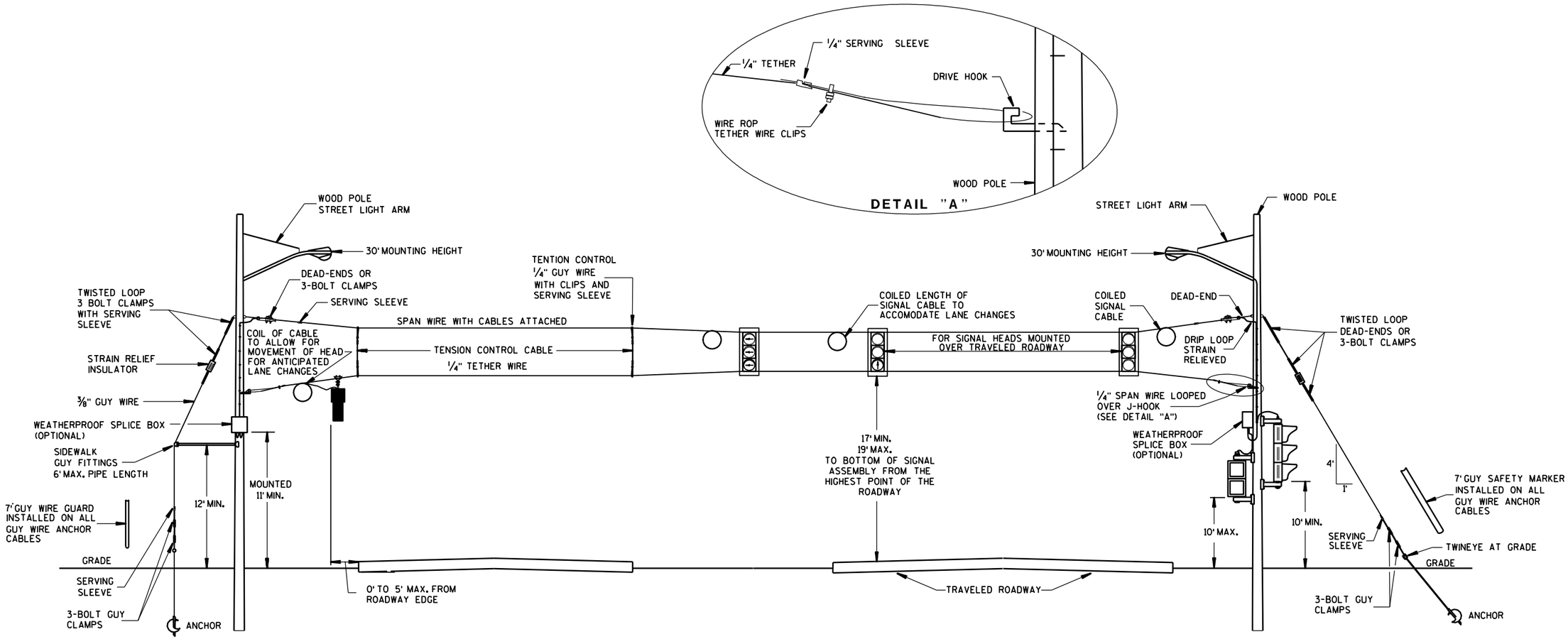
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
8-21-03
DATE
FHWA

STATE ELECTRICAL ENGINEER FOR HIGHWAYS

6

S.D.D. 9 G 1-1a



GENERAL NOTES

DETAILS OF CONSTRUCTION, MATERIALS AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE CONTRACT.

1. WOOD POLES SHALL BE CLASS 4. LENGTH DETERMINED BY SIGNAL PLAN.
2. SIGNAL FACES:
   A. ALL SECTIONS SHALL BE 12" AND POLYCARBONATE.
   B. EACH SHALL CONTAIN A 5" WIDE DULL BLACK POLYCARBONATE BACKPLATE.
   C. EACH SHALL BE WIRED FROM THE TOP SIGNAL MOUNTING BRACKET.
   D. NEAR RIGHT SIGNAL FACE SUSPENDED ON THE TETHER (NO BACKPLATE) SHALL NOT BE OVER THE TRAVELED WAY. IF THE POLE IS WITHIN 5 FEET OF THE TRAVELED WAY MOUNT THE SIGNAL FACE ON THE WOOD POLE WITH BACKPLATE.
   E. FAR INDICATION SHALL BE MAINTAINED OVER CENTER OF TRAFFIC LANE.
3. SPAN WIRE:
   A. EACH SPAN WIRE SHALL BE INDIVIDUALLY DOWN GUYED.
   B. SIGNAL AND LIGHTING CABLES SHALL ONLY BE ATTACHED TO THE UPPER SPAN WIRE.
   C. THE SIGNAL ASSEMBY SHALL HAVE A 17' MIN. HEIGHT ABOVE THE ROADWAY. THIS SHALL BE MEASURED AFTER THE SPAN WIRE INSTALLATION IS COMPLETED WITH ALL CABLES AND SIGNAL FACES IN PLACE. MAINTAIN MINIMUM AND MAXIMUM HEIGHTS AS ROADWAY WORK PROGRESSES.

SPAN WIRE
TEMPORARY SIGNALS
4 LANE ROADWAYS

MINIMUM POLE LENGTHS	CLASS	MIN. BURIAL DEPTHS
25'	V	5'
30'	V	6'
35'	IV	7'
40'	IV	8'
45'	IV	9'

SPAN WIRE
TEMPORARY TRAFFIC SIGNAL

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
8-21-03
DATE
FHWA

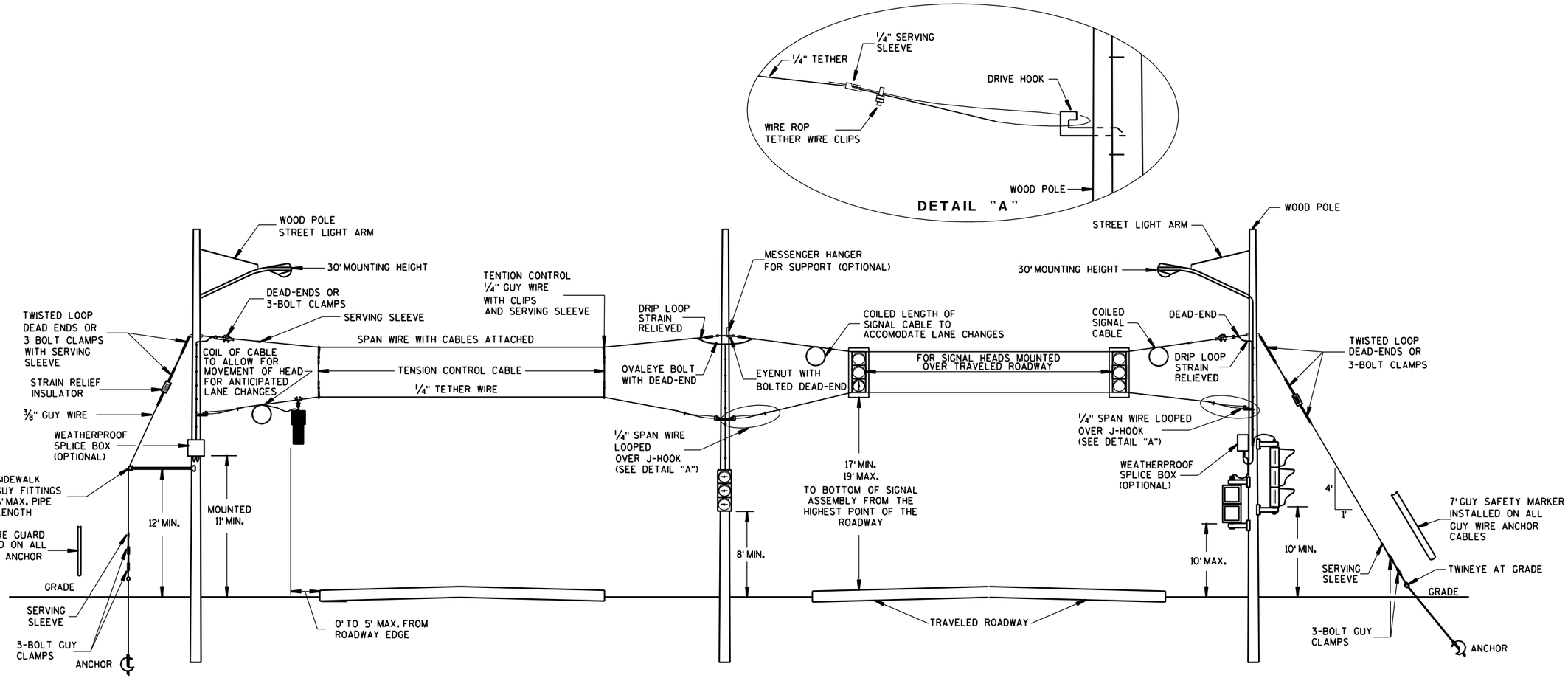
STATE ELECTRICAL ENGINEER FOR HIGHWAYS

6

S.D.D. 9 G 1-1b

6

S.D.D. 9 G 1-1b



SPAN WIRE
TEMPORARY SIGNALS
4 LANE ROADWAYS

GENERAL NOTES

DETAILS OF CONSTRUCTION, MATERIALS AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE CONTRACT.

1. WOOD POLES SHALL BE CLASS 4. LENGTH DETERMINED BY SIGNAL PLAN.

2. SIGNAL FACES:
   A. ALL SECTIONS SHALL BE 12" AND POLYCARBONATE.
   B. EACH SHALL CONTAIN A 5" WIDE DULL BLACK POLYCARBONATE BACKPLATE.
   C. EACH SHALL BE WIRED FROM THE TOP SIGNAL MOUNTING BRACKET.
   D. NEAR RIGHT SIGNAL FACE SUSPENDED ON THE TETHER (NO BACKPLATE) SHALL NOT BE OVER THE TRAVELED WAY. IF THE POLE IS WITHIN 5 FEET OF THE TRAVELED WAY MOUNT THE SIGNAL FACE ON THE WOOD POLE WITH BACKPLATE.
   E. FAR INDICATION SHALL BE MAINTAINED OVER CENTER OF TRAFFIC LANE.

3. SPAN WIRE:
   A. EACH SPAN WIRE SHALL BE INDIVIDUALLY DOWN GUYED.
   B. SIGNAL AND LIGHTING CABLES SHALL ONLY BE ATTACHED TO THE UPPER SPAN WIRE.
   C. THE SIGNAL ASSEMBY SHALL HAVE A 17' MIN. HEIGHT ABOVE THE ROADWAY. THIS SHALL BE MEASURED AFTER THE SPAN WIRE INSTALLATION IS COMPLETED WITH ALL CABLES AND SIGNAL FACES IN PLACE. MAINTAIN MINIMUM AND MAXIMUM HEIGHTS AS ROADWAY WORK PROGRESSES.

MINIMUM POLE LENGTHS	CLASS	MIN. BURIAL DEPTHS
25'	V	5'
30'	V	6'
35'	IV	7'
40'	IV	8'
45'	IV	9'

SPAN WIRE TEMPORARY TRAFFIC SIGNAL

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
8-21-03
DATE
FHWA

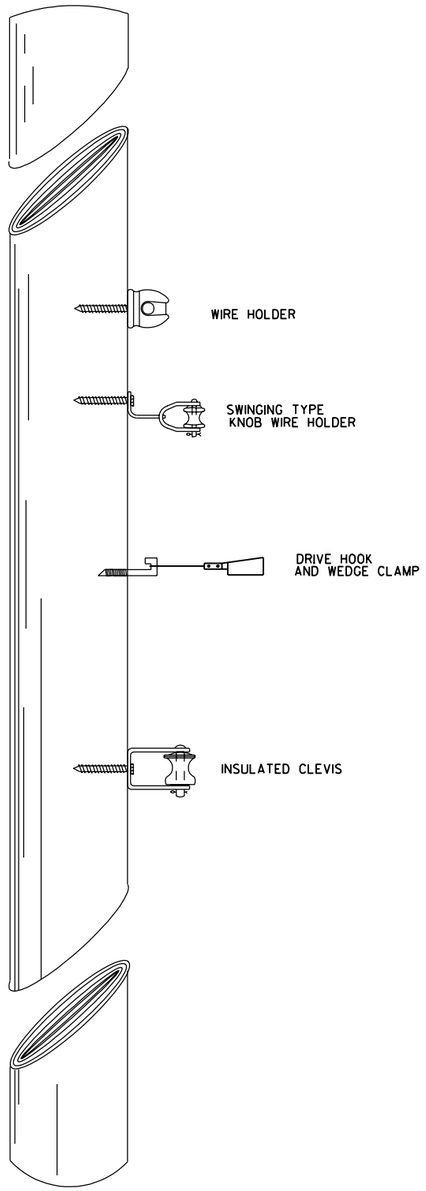
STATE ELECTRICAL ENGINEER FOR HIGHWAYS

6

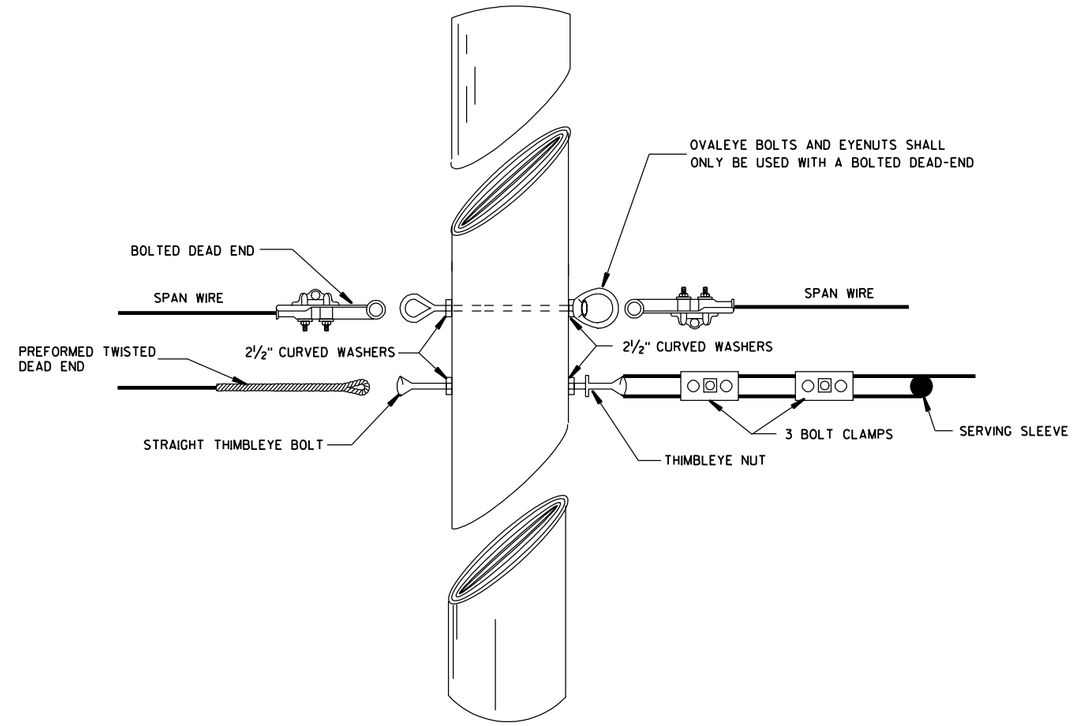
S.D.D. 9 G 1-1c

6

S.D.D. 9 G 1-1c



TYPICAL CABLE HANGERS



TYPICAL DEAD-ENDING

6

6

S.D.D. 9 G 1-1d

S.D.D. 9 G 1-1d

SPAN WIRE
TEMPORARY TRAFFIC SIGNAL

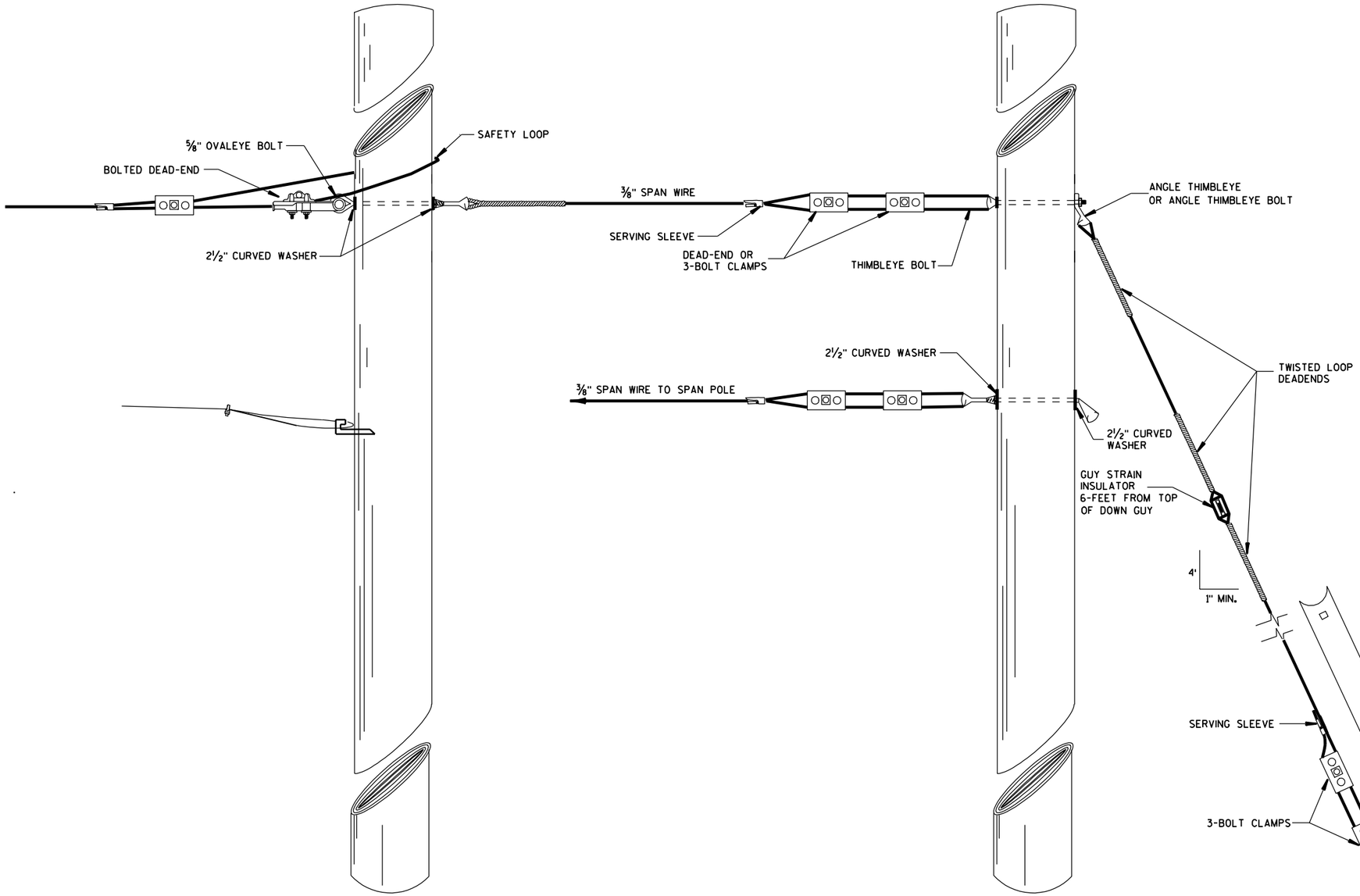
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
8-21-03
DATE
FHWA

STATE ELECTRICAL ENGINEER FOR HIGHWAYS

GENERAL NOTES

1. USE ¾" DRILL IN WOOD POLE TO PROVIDE HOLE FOR ⅝" BOLTS.
2. SAFTY LOOP REQUIRED ON EACH END OF ALL SPAN WIRES.



SPAN WIRE POLE

GUY POLE

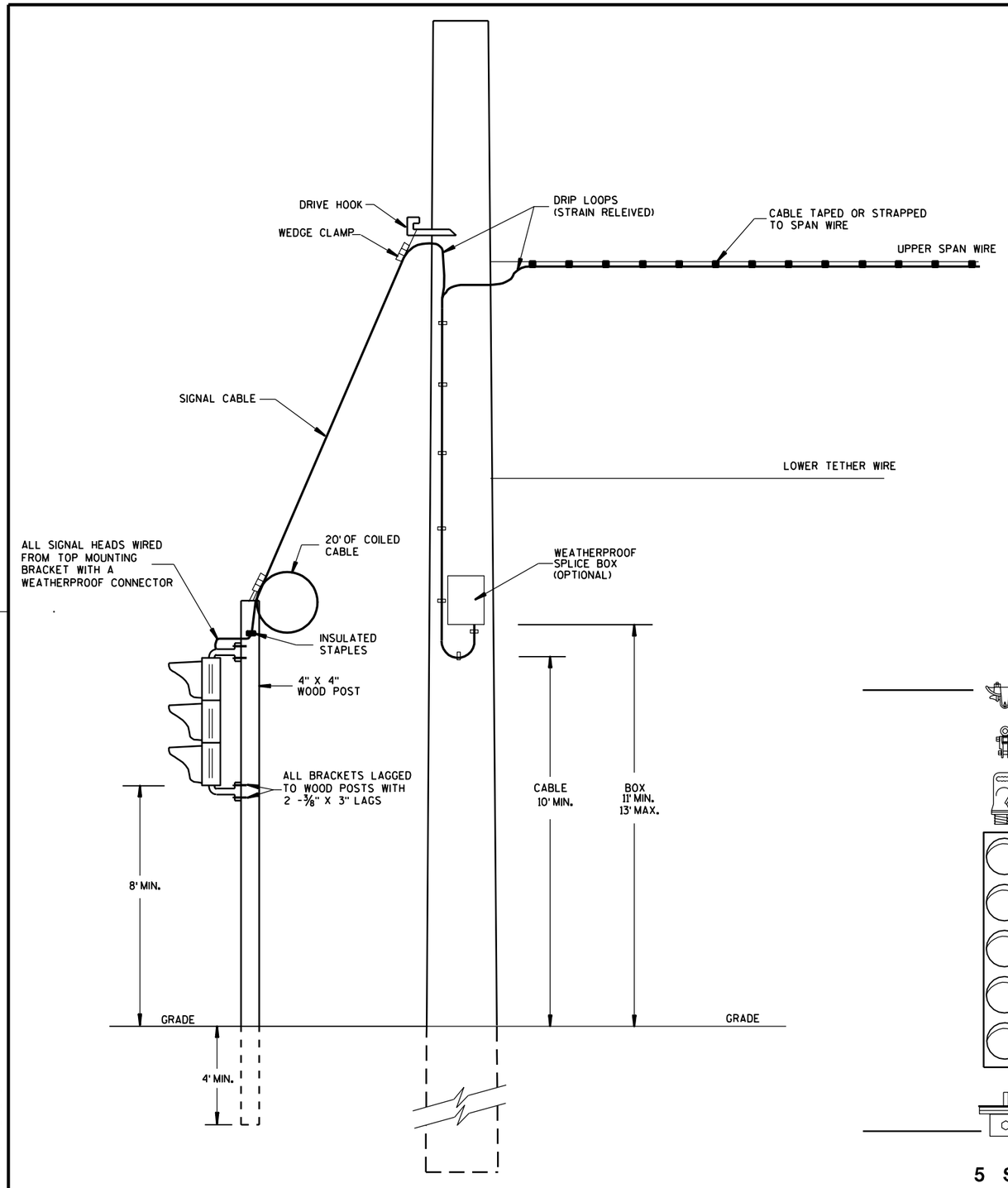
TYPICAL DEAD-ENDINGS OR GUYING

SPAN WIRE
TEMPORARY TRAFFIC SIGNAL

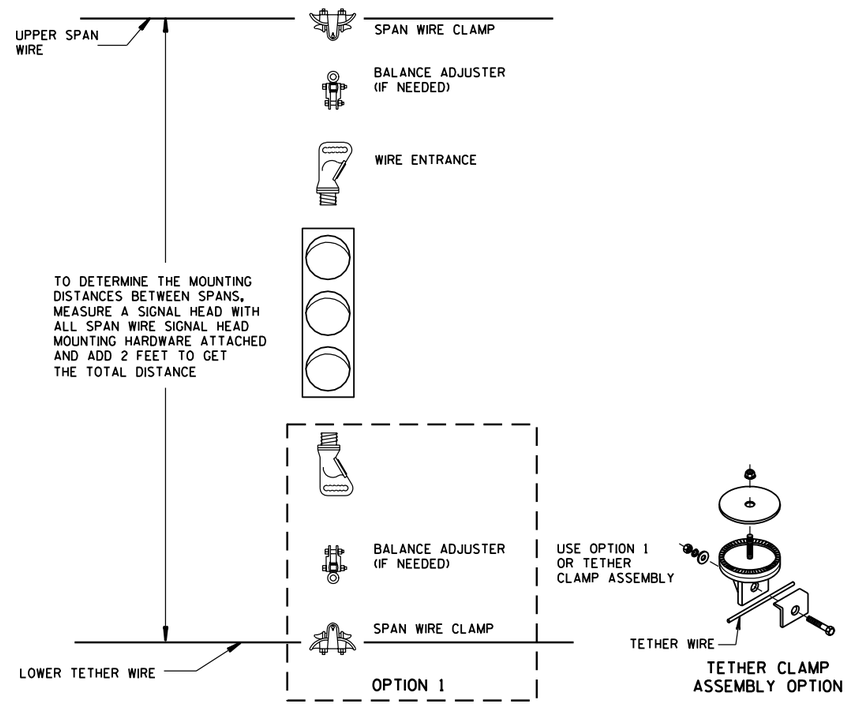
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
8-21-03
DATE
STATE ELECTRICAL ENGINEER FOR HIGHWAYS
FHWA

6
S.D.D. 9 G 1-1e

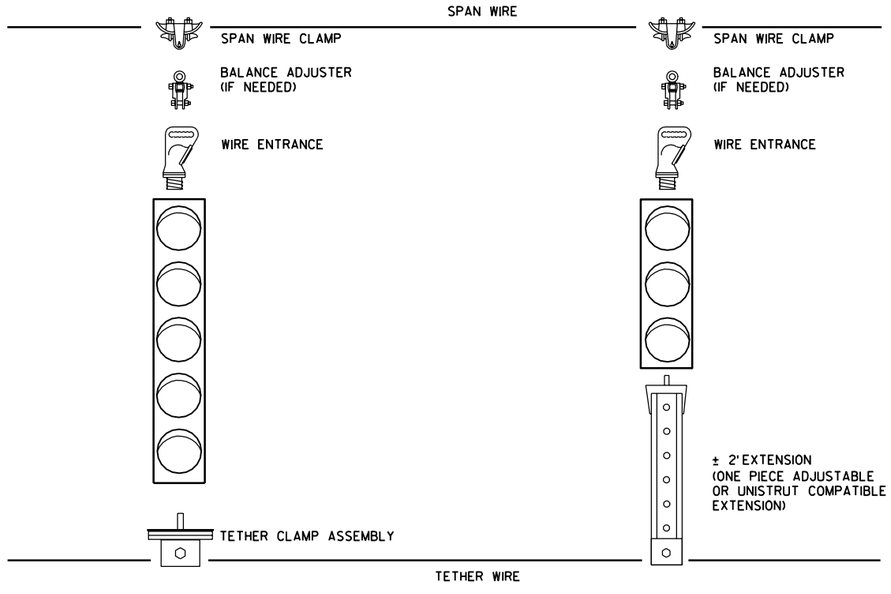


TYPICAL DROP TO TEMPORARY MOVEABLE SIGNAL



TETHER CLAMP ASSEMBLY OPTION

TYPICAL SPAN WIRE MOUNTING HARDWARE



5 SECTION VERTICAL WITH 3 SECTION VERTICAL ON ONE SPAN WIRE

SPAN WIRE
TEMPORARY TRAFFIC SIGNAL

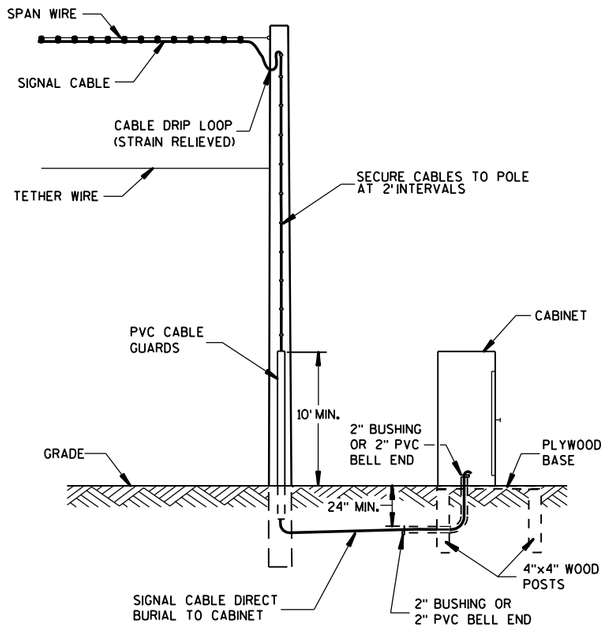
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

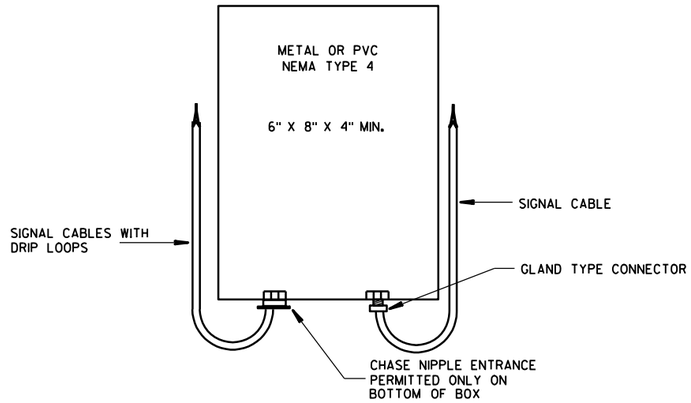
APPROVED
8-21-03
DATE
FHWA

STATE ELECTRICAL ENGINEER FOR HIGHWAYS

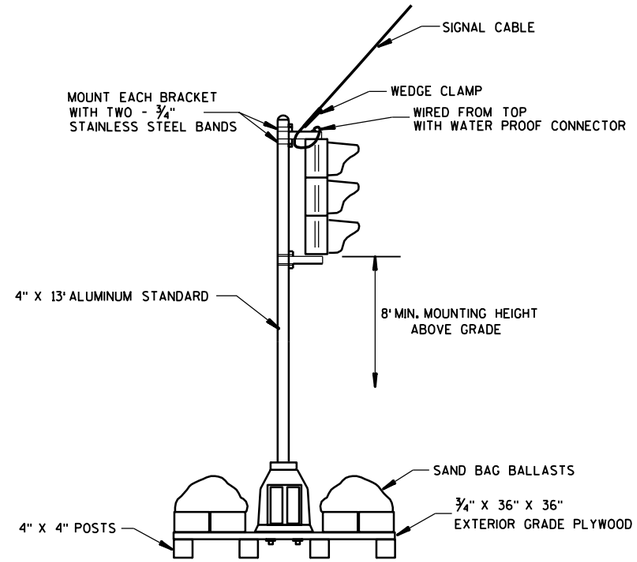
6

S.D.D. 9 G 1-1f

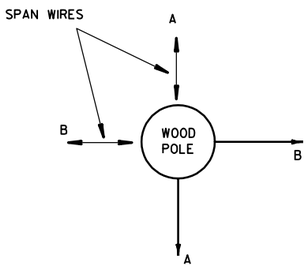




SPLICE BOX

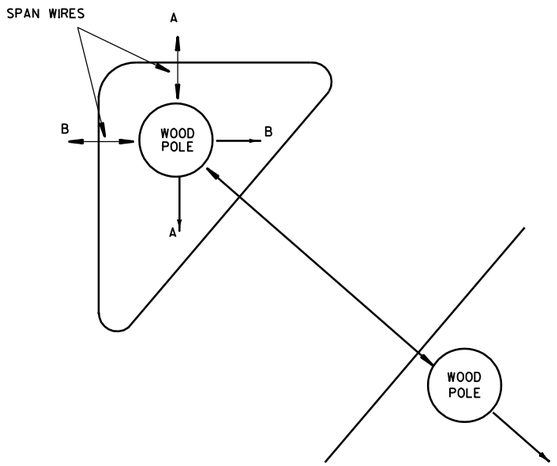


TYPICAL SKID TYPE TEMPORARY

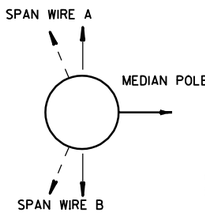


ALL DOWN OR SIDEWALK GUYS SHALL BE INSTALLED IN THE OPPOSITE DIRECTION OF THE STRAIN OF THE SPAN WIRE

CORNER POLES



ISLAND POLES



GUY AWAY FROM INTERSECTION OR IN OPPOSITE DIRECTION OF THE SPAN LOADING

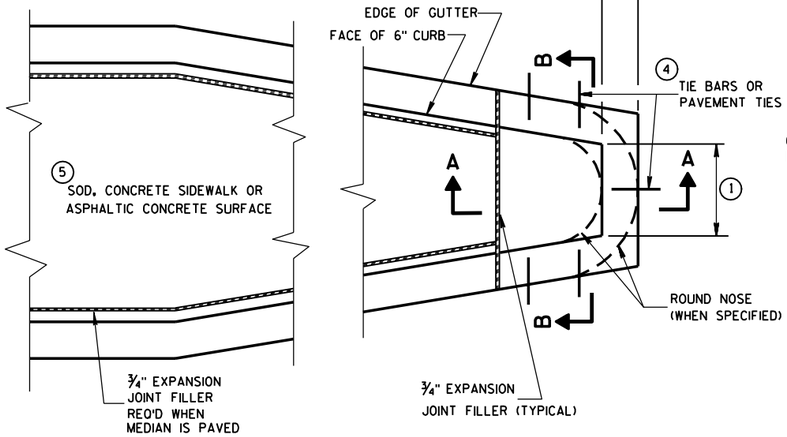
MEDIAN POLES

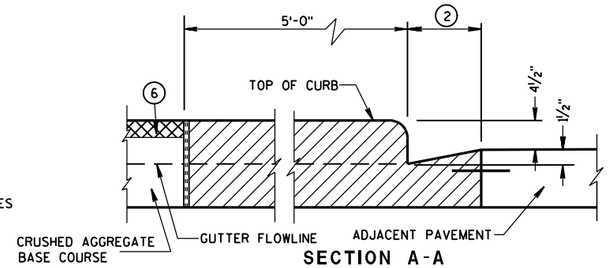
SPAN WIRE
TEMPORARY TRAFFIC SIGNAL

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

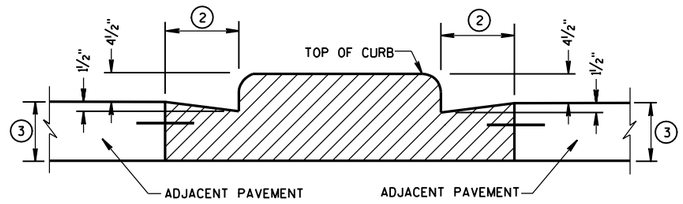
APPROVED
8-21-03
DATE
FHWA

STATE ELECTRICAL ENGINEER FOR HIGHWAYS





SECTION A-A



SECTION B-B

CONCRETE MEDIAN BLUNT NOSE DETAIL

GENERAL NOTES

DETAILS OF CONSTRUCTION, MATERIALS AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS AND THE APPLICABLE SPECIAL PROVISIONS.

(1) SEE PLAN FOR MEDIAN NOSE WIDTH AND RADIUS (FOR ROUND NOSE ALTERNATE).

(2) WIDTH OF GUTTER TO MATCH EXISTING ADJACENT GUTTER OR AS SPECIFIED ELSEWHERE IN THE PLAN.

(3) DEPTH EQUAL TO ADJACENT PAVEMENT. ADJACENT PAVEMENT STRUCTURE DETAILS ARE SHOWN ON THE PLAN. TYPICAL OPTIONS ARE:

(1) NEW OR EXISTING CONCRETE PAVEMENT.

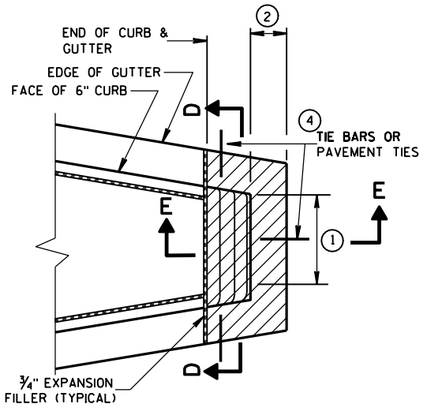
(2) ASPHALTIC CONCRETE PAVEMENT OVER NEW OR EXISTING CONCRETE BASE COURSE.

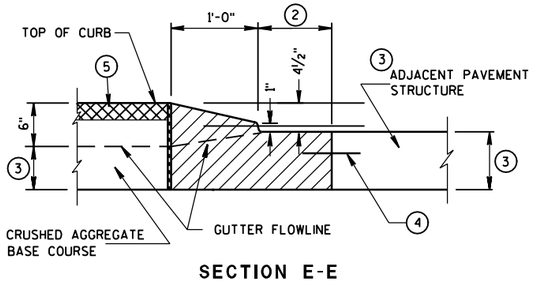
(3) ASPHALTIC CONCRETE PAVEMENT OVER CRUSHED AGGREGATE BASE COURSE.

(4) TIE BARS OR PAVEMENT TIES REQUIRED IN NEW CONCRETE PAVEMENT OR CONCRETE BASE COURSE. TIE BARS SHALL BE NO. 4 X 2'-0" SPACED AT 2'-0" C-C.

PAVEMENT TIES REQUIRED IN EXISTING CONCRETE BASE COURSE. PAVEMENT TIES SHALL BE NO. 6 X 1'-0" SPACED AT 3'-0" C-C INSTALLED ON A HORIZONTAL SKEW OF 6:1. THE DIRECTION OF SKEW SHALL ALTERNATE AFTER EVERY ONE OR TWO BARS.

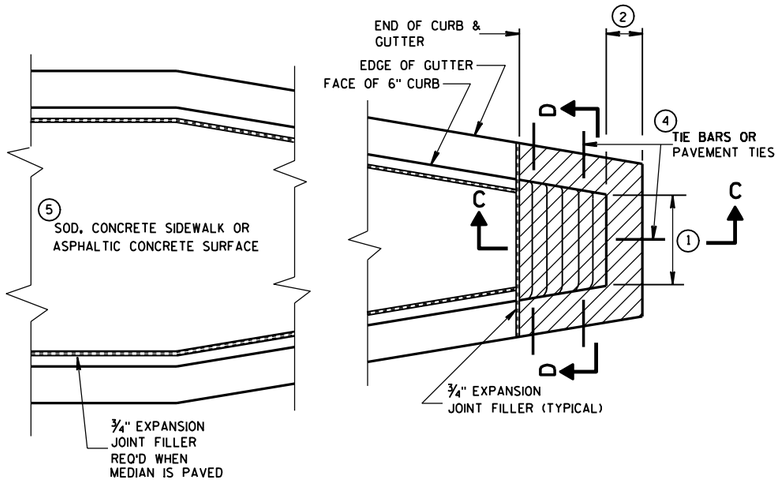
(5) SURFACE TYPE AND DETAILS ARE SHOWN ELSEWHERE IN THE PLAN.

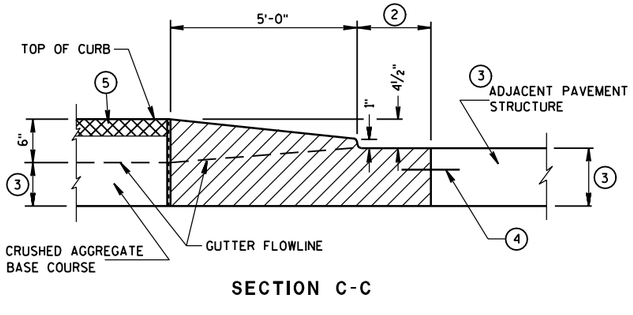




SECTION E-E

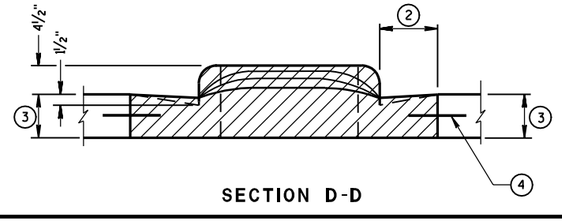
CONCRETE MEDIAN SLOPED NOSE TYPE 2





SECTION C-C

CONCRETE MEDIAN SLOPED NOSE TYPE 1



SECTION D-D

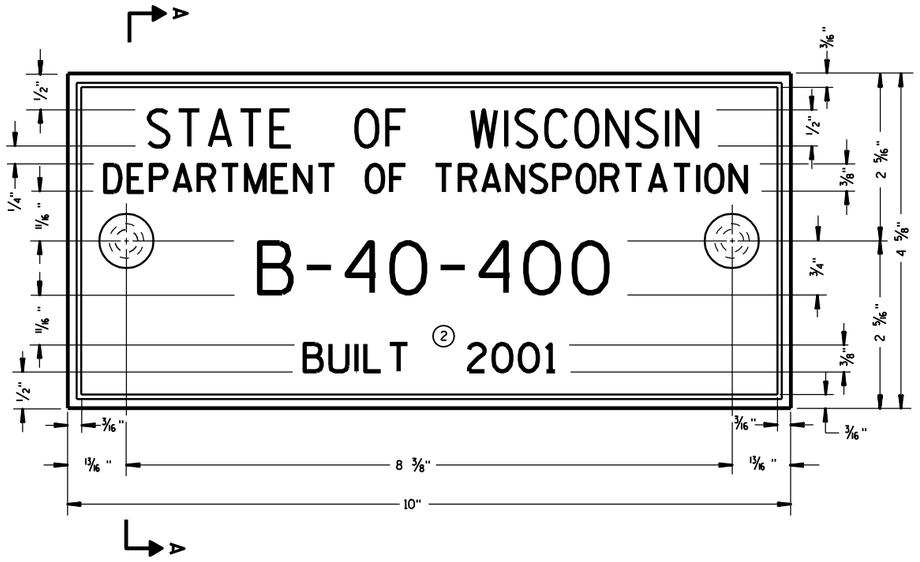
CONCRETE MEDIAN NOSE	
STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION	
APPROVED 6/8/06 DATE FHWA	/S/ Jerry H. Zogg ROADWAY STANDARDS DEVELOPMENT ENGINEER

6

S.D.D. 11B 2-2

6

S.D.D. 11B 2-2



TYPICAL NAME PLATE
(BRIDGES, CULVERTS, AND RETAINING WALLS)

FOR MULTI-UNIT STRUCTURES
LINE 3 ABOVE SHALL READ

B = BRIDGE
C = CULVERT
R = RETAINING WALL

COUNTY NO.

BRIDGE NO.

UNIT NO. FOR MULTIPLE UNIT BRIDGE

B-40-400-1A

NUMBERING DESIGNATION
MULTI-UNIT STRUCTURES

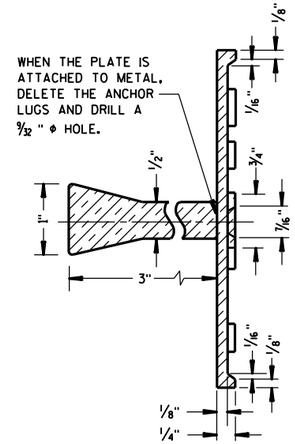
GENERAL NOTES

NAME PLATES TO BE INSTALLED ON BRIDGES, CULVERTS, AND RETAINING WALLS SHALL CONFORM TO THE REQUIREMENTS OF SECTION 502.3.11 OF THE STANDARD SPECIFICATIONS.

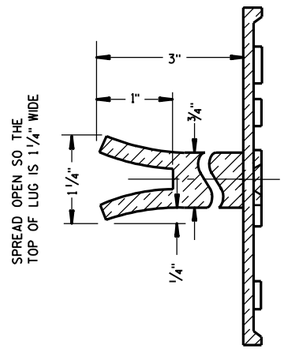
THE BRIDGE NUMBER AND YEAR BUILT SHOWN ON THIS DRAWING ARE EXAMPLES ONLY. SEE CONSTRUCTION PLANS FOR INDIVIDUAL NUMBERING AND YEAR BUILT.

① EPOXY RESIN SHALL BE FROM AN APPROVED MANUFACTURER AND USED IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS.

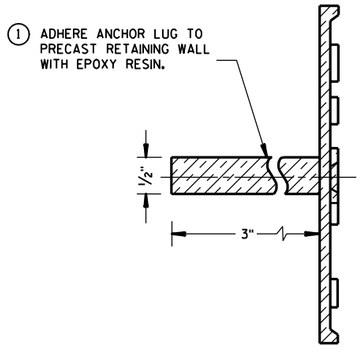
② REHABILITATION OF AN EXISTING STRUCTURE SHOULD USE THE DATE OF ORIGINAL STRUCTURE CONSTRUCTION.



SECTION A-A



ALTERNATE LUG



ALTERNATE LUG
(FOR ATTACHMENT TO PRECAST STRUCTURES)

NAME PLATE
(STRUCTURES)

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

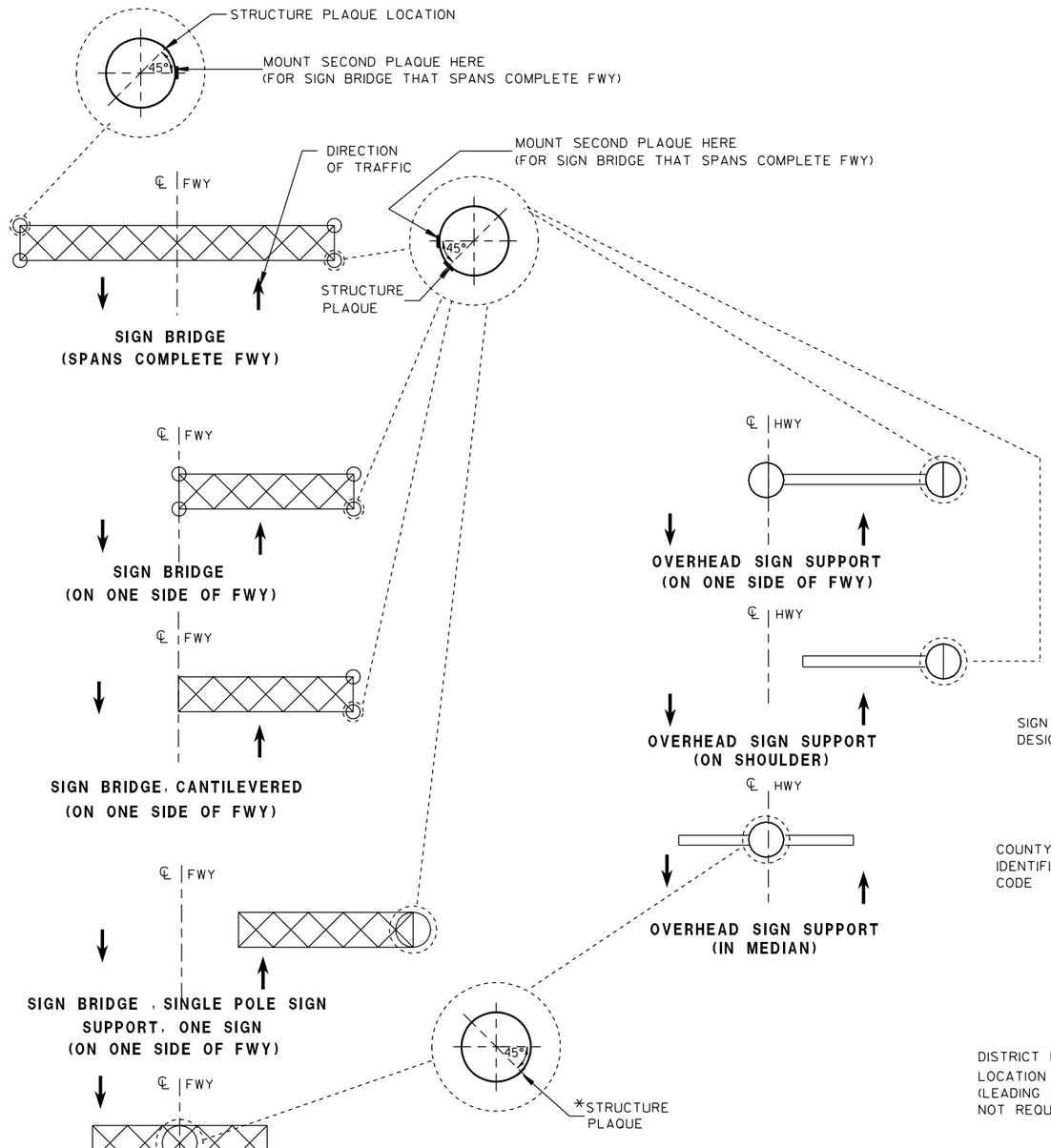
APPROVED
2/26/07 — DATE
/S/ Scot Becker — CHIEF STRUCTURAL DEVELOPMENT ENGINEER
FHWA

6

S.D.D. 12 A 3-9

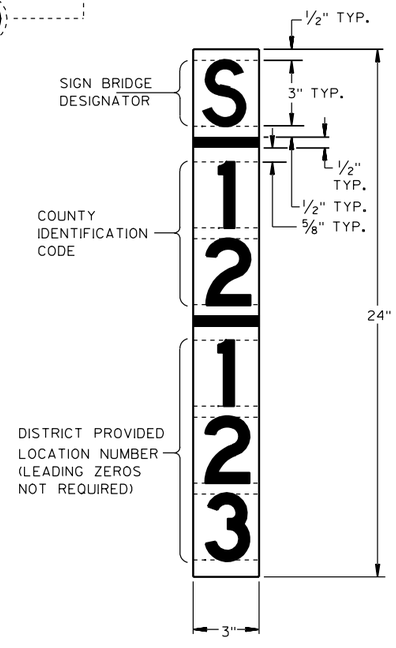
6

S.D.D. 12 A 3-9



LOCATION OF SIGN BRIDGE & OVERHEAD
SIGN SUPPORT STRUCTURE PLAQUES

*WHEN SIGNS FACE TRAFFIC IN ONE DIRECTION, THE PLAQUE SHALL FACE TRAFFIC IN THE SAME DIRECTION. WHEN SIGNS ARE FACING TRAFFIC IN BOTH DIRECTIONS, THE PLAQUE SHALL FACE TRAFFIC IN THE CARDINAL DIRECTION.



SIGN BRIDGE AND OVERHEAD SIGN SUPPORT
STRUCTURE PLAQUE FOR SIGN BRIDGES AND OVERHEAD SIGN
SUPPORT WHICH ARE NOT STRUCTURE MOUNTED

GENERAL NOTES

DETAILS OF CONSTRUCTION AND WORKMANSHIP NOT SHOWN IN THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE CONTRACT.

PLAQUES SHALL BE INCIDENTAL TO ALL NEW INSTALLATIONS.

IF THE PROPOSED SIGN BRIDGE OR OVERHEAD SIGN SUPPORT IS REPLACING AN EXISTING SIGN BRIDGE OR OVERHEAD SIGN SUPPORT, A NEW IDENTIFICATION PLAQUE WILL BE REQUIRED.

FASTEN TOP, CENTER AND BOTTOM OF PLAQUE TO POLE OR OTHER LOCATION AS FOLLOWS:

GALVANIZED STEEL SHAFT - 3 STAINLESS STEEL POP RIVETS

A588 STEEL SHAFT - SHIM FOR DRAINAGE WITH STAINLESS WASHERS; FASTEN WITH STAINLESS SELF-TAPPING SCREWS

ALUMINUM SHAFTS - 3 ALUMINUM POP RIVETS

MOUNTING HEIGHT SHALL BE APPROXIMATELY 5.0' ABOVE CURB OR SHOULDER. ADJUST IF IT IS KNOWN THAT REQUIRED TRAFFIC SIGNS WILL OBSTRUCT.

PLAQUE MATERIALS:

BASE - SHEET ALUMINUM, 0.060" THICK.

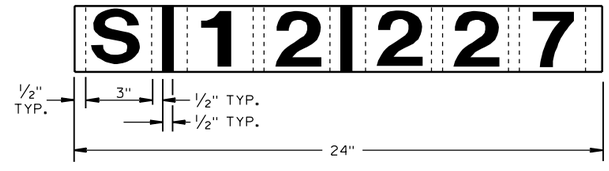
FACE - WHITE, SELF-ADHESIVE VINYL SHEETING, NON-RETROREFLECTIVE

LINES - BLACK, ½" WIDE, SELF-ADHESIVE

CHARACTERS:- BLACK, SELF ADHESIVE, SERIES "D", SIZE AS SHOWN.

FOR SIGN BRIDGES, STRUCTURE MOUNTED, THE STRUCTURE PLAQUE SHALL BE MOUNTED HORIZONTALLY AS SHOWN ON THE DRAWING. THE STRUCTURE PLAQUE SHALL BE MOUNTED HORIZONTALLY TO THE BACK OF THE SIGN, BETWEEN THE ALUMINUM EXTRUSIONS, NEAR THE TOP LEFT HAND CORNER OF THE SIGN. THE BASE MATERIAL SHALL BE OMITTED AND THE FACE ADHERED DIRECTLY TO THE ALUMINUM SURFACE. PRIOR TO ADHERING THE MATERIAL, THE ALUMINUM SURFACE SHALL BE SMOOTH, CLEAN AND DRY.

WHERE SIGN BRIDGE ILLUMINATION IS PROVIDED, THE STRUCTURE MUST ALSO HAVE A SIGN BRIDGE CIRCUIT PLAQUE AS SHOWN IN THE ELECTRICAL DETAILS.



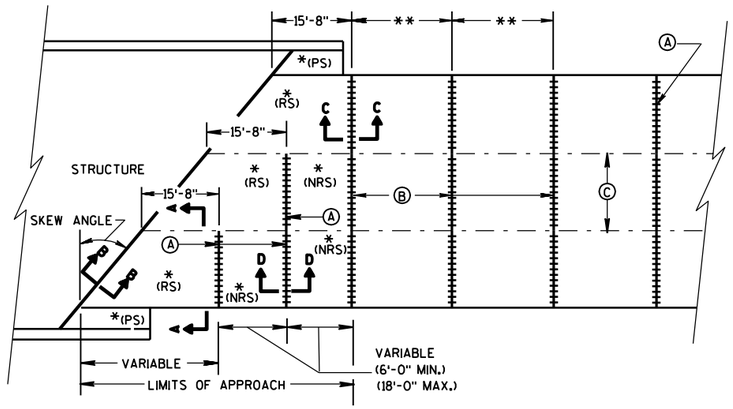
IDENTIFICATION PLAQUE FOR SIGN BRIDGE,
STRUCTURE MOUNTED

STRUCTURE IDENTIFICATION PLAQUES,
SIGN BRIDGES & OVERHEAD
SIGN SUPPORT

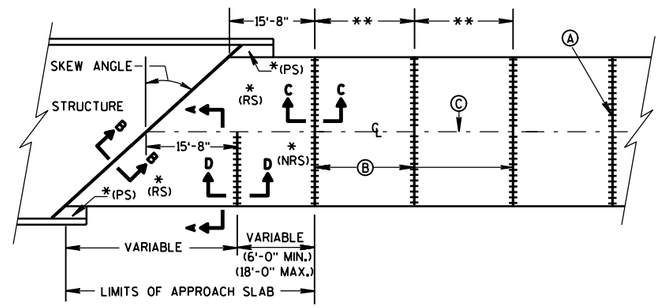
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
4/22/99
DATE
Chester J. Seyfarth
CHIEF SIGNS AND MARKING ENGINEER
FHWA

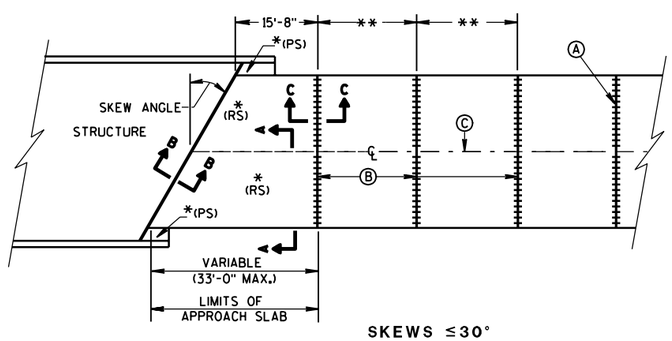
6
S.D.D. 12 A 4-1



SKEWED APPROACH
(PAVEMENT MORE THAN 2 LANES)



SKEWS >30°
(PAVEMENT WIDTH ≤ 30')



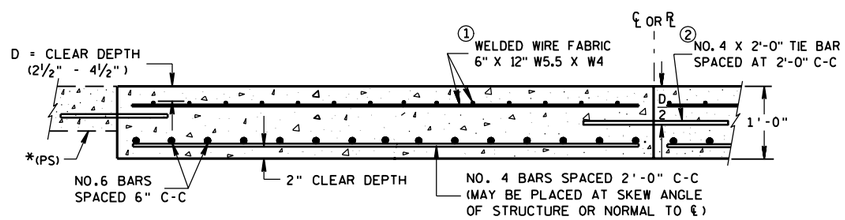
SKEWS ≤30°
(PAVEMENT WIDTH ≤30')

APPROACH SLAB AND ADJACENT PAVEMENT

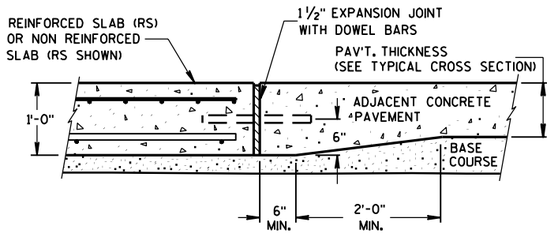
*(RS) = REINFORCED CONCRETE SLAB
*(PS) = PAVED CONCRETE SHOULDER: CONCRETE PAVEMENT, OR CONCRETE SURFACE DRAIN (SEE DETAILS ELSEWHERE IN THE PLAN)
*(NRS) = NON-REINFORCED CONCRETE SLAB

**STANDARD TRANSVERSE JOINT SPACING (SEE SDD 13C4, SDD 13C11, & SDD 13C13)

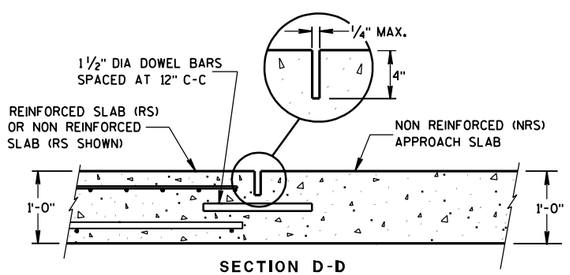
(A) STANDARD CONTRACTION JOINT NORMAL TO ℄ OR ℄
(B) 1½" EXPANSION JOINT WITH DOWEL BARS NORMAL TO ℄ OR ℄
(C) STANDARD LONGITUDINAL JOINT AND TIE BARS.



SECTION A-A
REINFORCEMENT POSITIONING DETAIL



SECTION C-C
TRANSITION DETAIL
APPROACH SLAB TO ADJACENT PAVEMENT



SECTION D-D
CONTRACTION JOINT

GENERAL NOTES

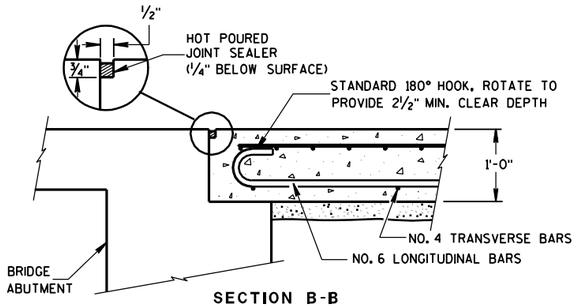
DETAILS OF CONSTRUCTION NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE STANDARD SPECIFICATIONS AND SPECIAL PROVISIONS.

DOWEL BARS ARE NOT REQUIRED WHEN THE APPROACH SLAB ABUTS AN ASPHALT PAVEMENT OVER BASE COURSE.

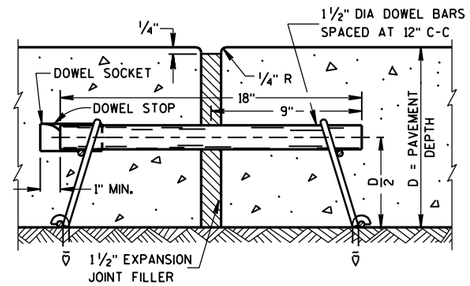
SPLICING OF NO. 6 BARS IN THE APPROACH SLAB IS PERMITTED FOR SKEWED STRUCTURES ONLY. SPLICES SHALL BE STAGGERED, WITH A MAXIMUM OF ONE SPLICE PER BAR. THE LENGTH OF LAP SHALL BE 20 INCHS.

(1) NO. 4 BARS SPACED AT 2'-0" C-C IN BOTH THE LONGITUDINAL AND TRANSVERSE DIRECTIONS MAY BE USED FOR TOP REINFORCEMENT AS AN ALTERNATIVE TO THE WELDED WIRE FABRIC.

(2) TIE BARS BETWEEN REINFORCED SLABS MAY BE OMITTED WHERE SLAB REINFORCEMENT EXTEND ACCROSS THE CENTERLINE OR REFERENCE LINE.



SECTION B-B
BEND DETAIL
BOTTOM REINFORCEMENT



EXPANSION JOINT

CONCRETE PAVEMENT
APPROACH SLAB

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

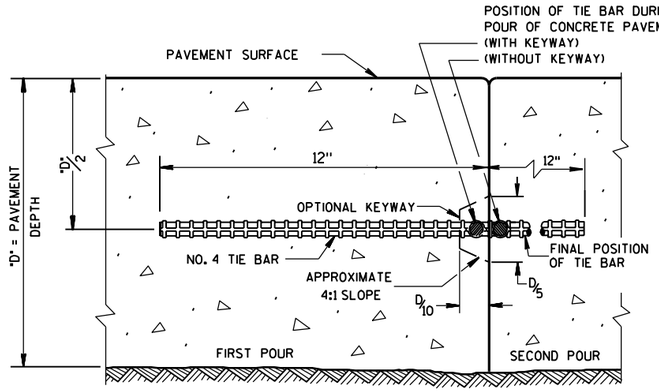
APPROVED
3/21/07 — DATE
/S/ Steven W. Krebs — CHIEF MATERIALS MANAGEMENT ENGINEER
FHWA

6

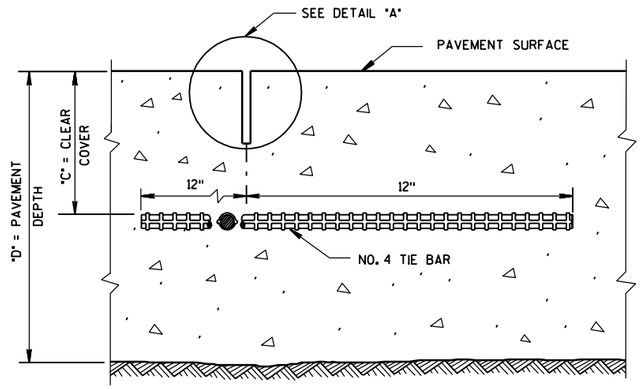
S.D.D. 13 B 2-5

6

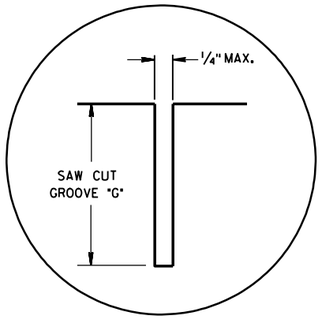
S.D.D. 13 B 2-5



CONSTRUCTION JOINT



SAWED JOINT



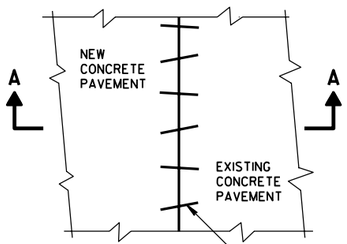
DETAIL "A"

GENERAL NOTES

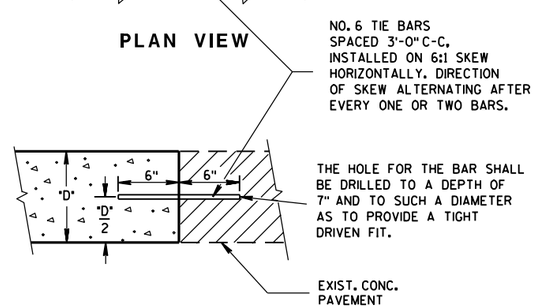
DETAILS OF CONSTRUCTION NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS AND THE APPL ICABLE SPECIAL PROVISIONS.

LONGITUDINAL JOINTS SHALL NOT BE SEALED OR FILLED.

TIE BAR SPACINGS ARE VALID ONLY FOR PAVEMENT WIDTHS IN THE TABLE. FOR WIDER PAVEMENTS, TIED CONCRETE SHOULDERS OR RAMPS, THE TIE BAR SPACING SHALL BE AS SHOWN ON THE PLANS.



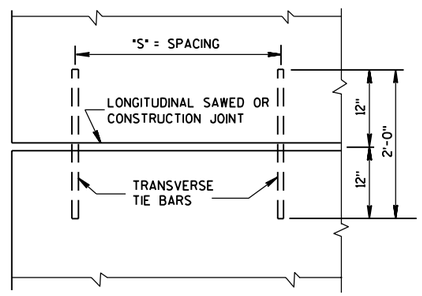
PLAN VIEW



SECTION A-A

PAVEMENT TIES

PAVEMENT DEPTH "D"	CLEAR COVER "C"	SAW CUT GROOVE "G"	MAXIMUM TIE BAR SPACING "S"	
			PAVEMENT WIDTH	
			24' OR 26'	30'
6, 6 1/2"	3"±1/2"	2"	48"	42"
7, 7 1/2"	3 1/4"±1"	2 1/4"	45"	36"
8, 8 1/2"	3 3/4"±1"	2 1/2"	39"	30"
9, 9 1/2"	4 1/4"±1"	3"	33"	27"
10, 10 1/2"	4 3/4"±1"	3 1/4"	30"	24"
11, 11 1/2"	5 1/4"±1"	3 3/4"	27"	21"
12"	5 3/4"±1"	4	24"	21"



PLAN VIEW

SHOWING LOCATION OF TIE BARS

CONCRETE PAVEMENT
LONGITUDINAL JOINTS
AND PAVEMENT TIES

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED

3/21/07
DATE

/S/ Steven W. Krebs
CHIEF MATERIALS MANAGEMENT ENGINEER

FHWA

6

S.D.D. 13 C 1-12

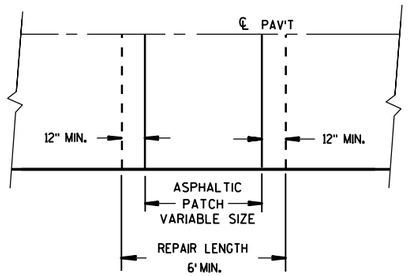
6

S.D.D. 13 C 1-12

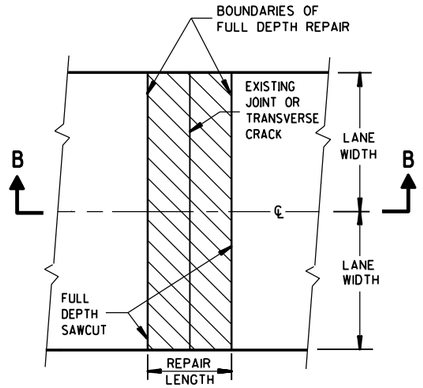
GENERAL NOTES

DETAILS OF CONSTRUCTION, MATERIALS AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS AND THE APPLICABLE SPECIAL PROVISIONS.

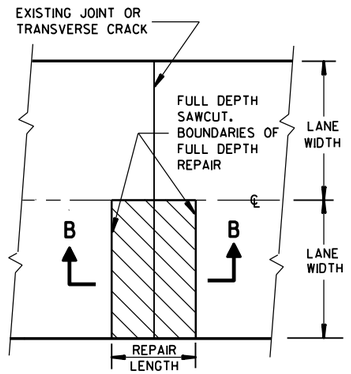
EXISTING CONCRETE PAVEMENT WITHIN THE BOUNDARIES OF CONCRETE REPAIR AREAS SHALL BE DRILLED AND LIFTED OUT. ADDITIONAL SAW CUTS MAY BE MADE INSIDE THE REPAIR LIMITS TO REDUCE WEIGHT AND SIZE OF CONCRETE PIECES. BOUNDARIES OF CONCRETE REPAIR AREAS SHALL BE 6 FEET MINIMUM FROM REMAINING TRANSVERSE JOINT OR CRACK.



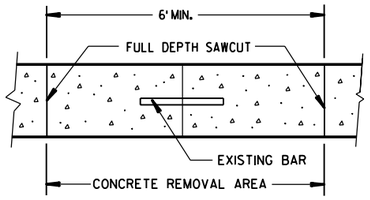
PLAN VIEW



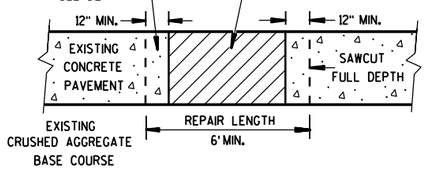
PLAN VIEW
(DOUBLE LANE REPAIR)



PLAN VIEW
(SINGLE LANE REPAIR)



SECTION B-B



CROSS SECTION

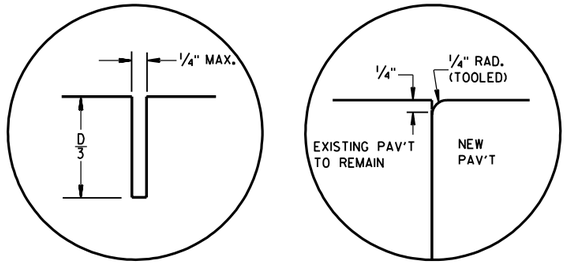
PATCH REMOVAL

FULL DEPTH CONCRETE PAVEMENT REMOVAL
(SEE NOTE)

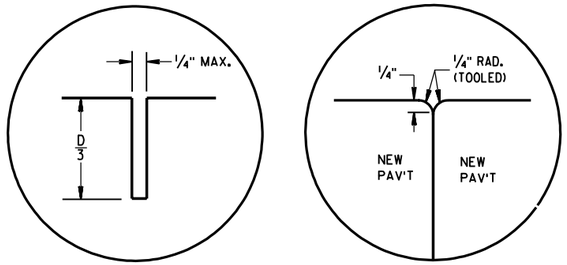
CONCRETE PAVEMENT REPAIR

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

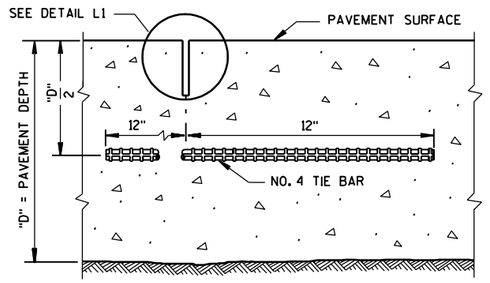
S.D.D. 13 C 9-6a



TRANSVERSE JOINTS

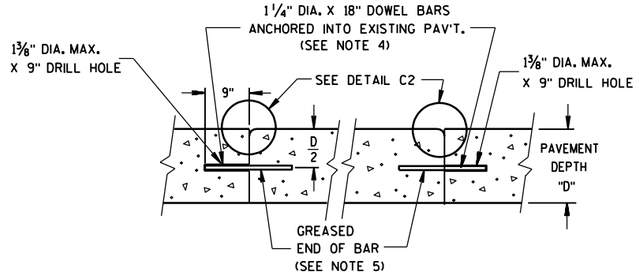


LONGITUDINAL JOINTS



SECTION C-C

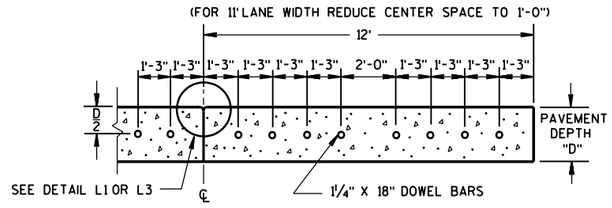
SAWED JOINT



SECTION D-D

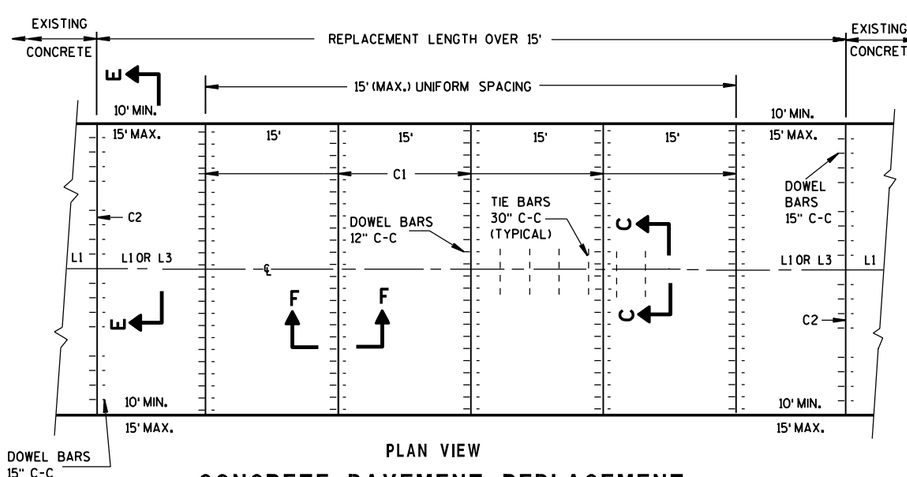
GENERAL NOTES

1. DOWEL BARS SHALL BE INSTALLED PARALLEL TO THE PAVEMENT CENTERLINE AND PAVEMENT SURFACE.
2. CONCRETE REPAIR AND CONCRETE REPLACEMENT SIZES AND LOCATIONS ARE SHOWN ELSEWHERE IN THE CONTRACT.
3. THE PREPARATION OF FOUNDATION FOR FULL DEPTH CONCRETE PAVEMENT REPAIR SHALL BE IN ACCORDANCE WITH SUBSECTION 211.4.4 OF THE STANDARD SPECIFICATIONS.
4. DOWEL BARS SHALL BE ANCHORED INTO DRILL HOLES WITH AN APPROVED EPOXY GROUT.
5. THE FREE END OF DOWEL BARS SHALL RECEIVE A THIN UNIFORM COATING OF BOND BREAKER.
6. JOINTS SHALL NOT BE SEALED OR FILLED.



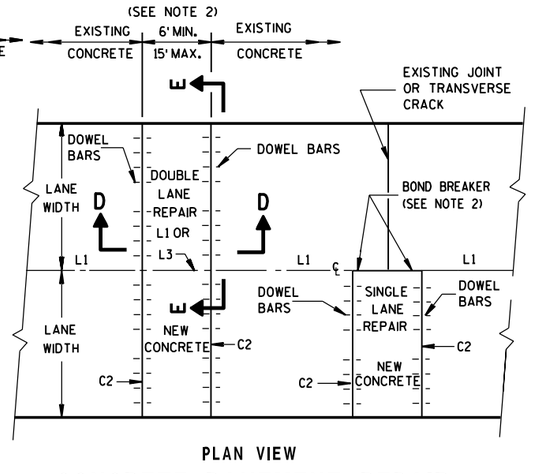
SECTION E-E

DOWEL BAR SPACING ABUTTING EXISTING PAVEMENT



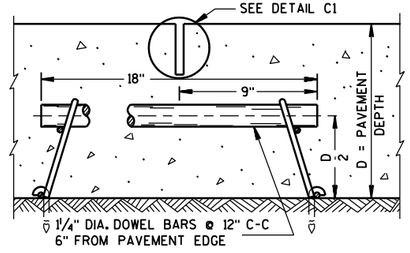
PLAN VIEW

CONCRETE PAVEMENT REPLACEMENT



PLAN VIEW

CONCRETE PAVEMENT REPAIR



SECTION F-F

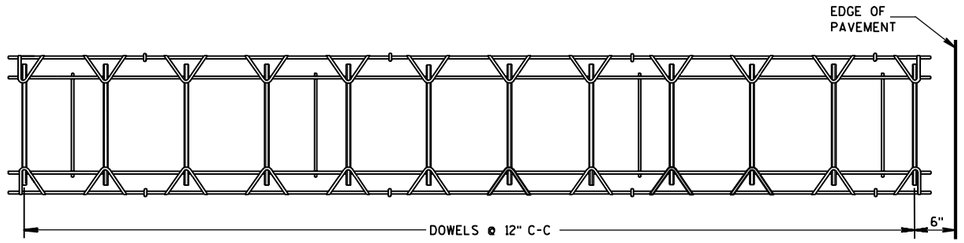
CONTRACTION JOINT

CONCRETE PAVEMENT REPAIR & DOWEL BAR INSTALLATION DETAILS

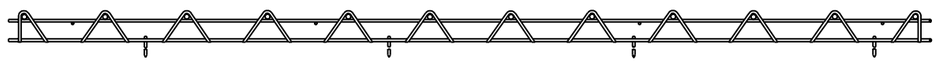
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
6/6/02
DATE
Bill Duckett
PAVEMENT ENGINEER
FHWA

S.D.D. 13 C 9-6b



PLAN VIEW

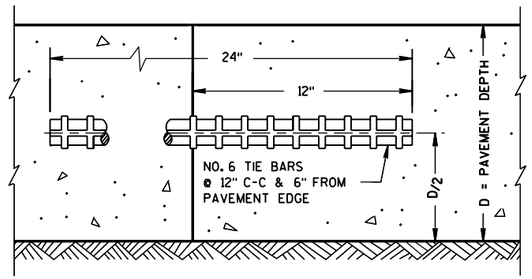


SIDE VIEW

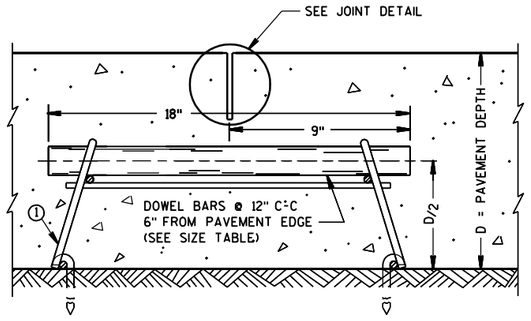
CONTRACTION JOINT DOWEL ASSEMBLY ①

PAVEMENT DEPTH, DOWEL BAR SIZE AND JOINT SPACING TABLE

PAVEMENT DEPTH (D)	DOWEL BAR DIAMETER	CONTRACTION JOINT SPACING
6",6 ½"	1¼"	12'
7",7 ½"	1¼"	14'
8",8 ½"	1¼"	15'
9",9 ½"	1¼"	15'
10" & ABOVE	1½"	15'



CONSTRUCTION JOINT



DOWELED CONTRACTION JOINT

GENERAL NOTES

DETAILS OF CONSTRUCTION NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE STANDARD SPECIFICATIONS AND SPECIAL PROVISIONS.

CONTRACTION JOINTS

CONTRACTION JOINTS SHALL BE NORMAL TO THE CENTERLINE. THE LOCATION OF CONTRACTION JOINTS THROUGH INTERSECTIONS SHALL BE SHOWN ON THE PLANS OR AS DIRECTED BY THE ENGINEER.

CONTRACTION JOINTS SHALL NOT BE SEALED OR FILLED.

DOWEL BARS SHALL BE INSTALLED PARALLEL TO THE PAVEMENT CENTERLINE AND SURFACE.

CONSTRUCTION JOINTS

CONSTRUCTION JOINTS SHALL BE A MINIMUM OF 4 FEET FROM THE NEAREST CONTRACTION JOINT AND ALIGNED PARALLEL TO CONTRACTION JOINTS.

TIE BARS MAY BE INSERTED THROUGH THE HEADER BOARD AFTER THE CONCRETE HAS BEEN PLACED.

① ALTERNATIVE DESIGNS OF THE DOWEL ASSEMBLY MAY BE USED WHEN APPROVED BY THE ENGINEER. MECHANICAL DOWEL BAR IMPLANTERS MAY BE USED INSTEAD OF DOWEL ASSEMBLIES.

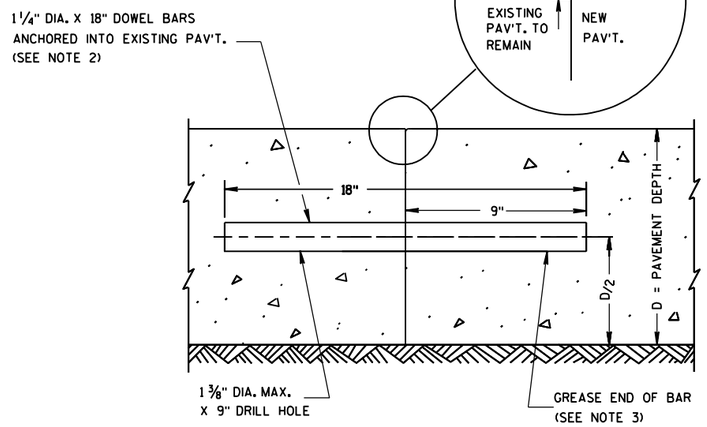
② DOWEL BARS SHALL BE ANCHORED INTO DRILL HOLES WITH AN APPROVED EPOXY GROUT.

③ THE FREE END OF DOWEL BARS SHALL RECEIVE A THIN UNIFORM COATING OF BOND BREAKING GREASE.

④ DOWEL BARS INSTALLED BY DRILLING SHALL BE SPACED 1'-3" ON CENTER. THE GROUPING OF DOWEL BARS SHALL BE CENTERED INSIDE THE SLAB BASED ON ALL THE FOLLOWING SITUATIONS:

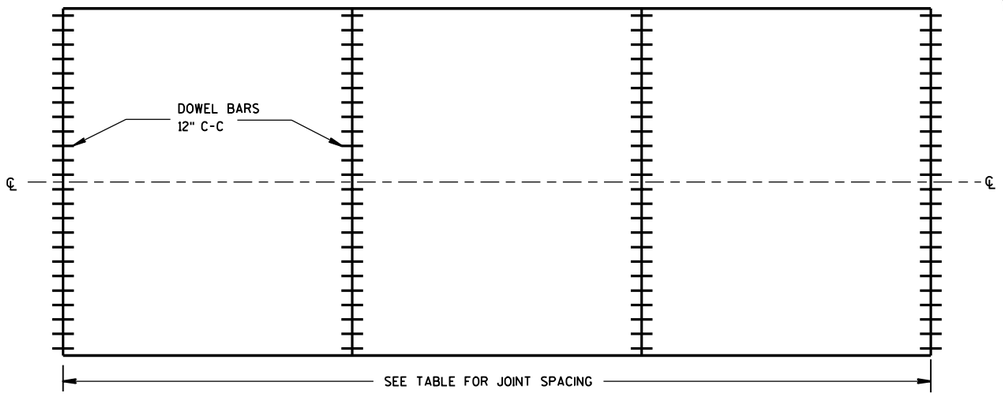
BETWEEN THE EDGES OF PAVEMENTS WITHOUT LONGITUDINAL JOINTS OR BETWEEN THE EDGE OF PAVEMENT AND NEAREST LONGITUDINAL JOINT OR BETWEEN TWO ADJACENT LONGITUDINAL JOINTS.

THE DISTANCE FROM THE EDGE OF PAVEMENT OR LONGITUDINAL JOINT TO THE CENTER OF THE DOWEL BAR NEAREST THAT EDGE OR JOINT SHALL BE A MINIMUM OF 6 INCHES AND A MAXIMUM OF 14 INCHES.

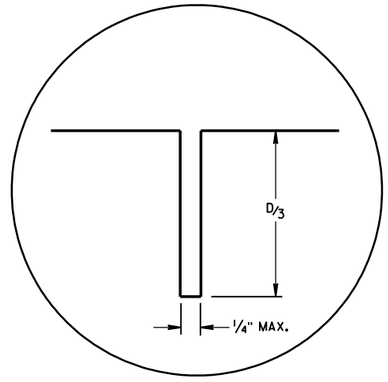


TRANSVERSE CONTRACTION JOINTS ABUTTING EXISTING PAVEMENT

④ DOWEL BAR DETAIL



CONTRACTION JOINT LOCATIONS



JOINT DETAIL

URBAN DOWELED CONCRETE PAVEMENT

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

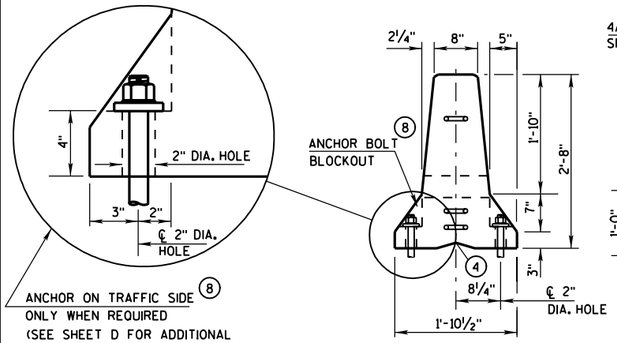
APPROVED
3/21/07 — DATE
/S/ Steven W. Krebs — CHIEF MATERIALS MANAGEMENT ENGINEER
FHWA

6

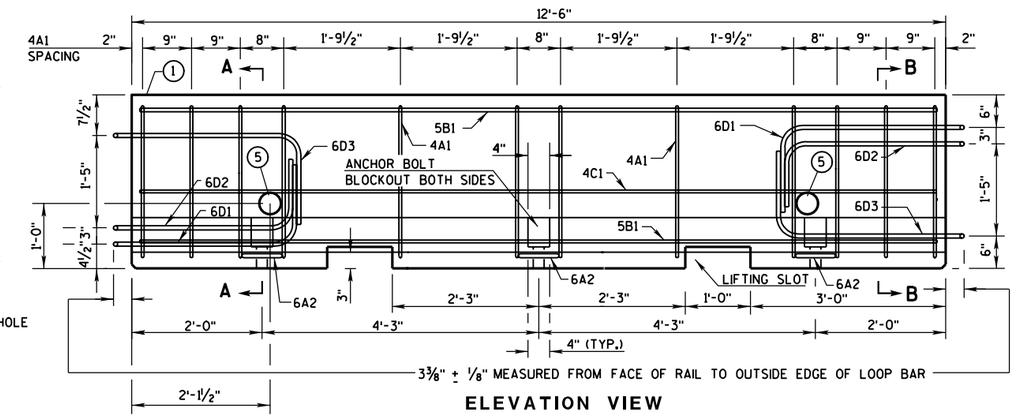
S.D.D. 13 C 13-5

6

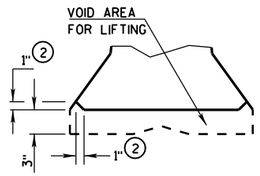
S.D.D. 13 C 13-5



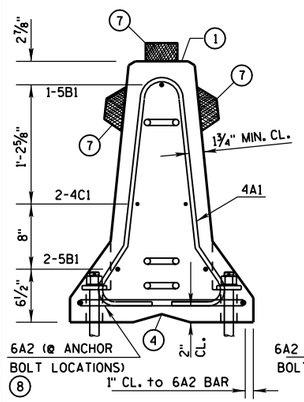
END VIEW



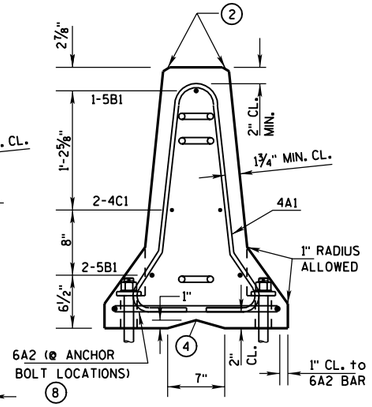
ELEVATION VIEW



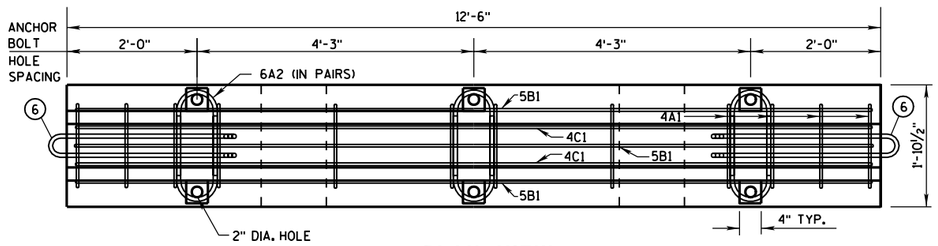
DETAIL "B"
LIFTING SLOT DETAIL



SECTION A-A
(STIRRUP PLACEMENT)

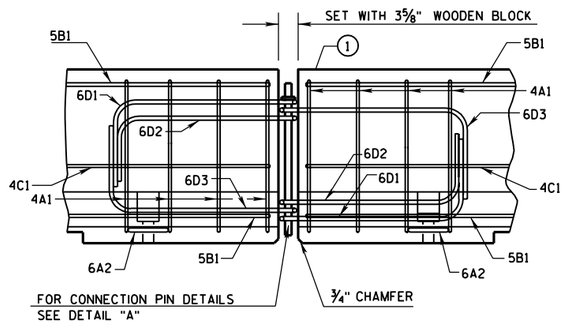


SECTION B-B
(STIRRUP PLACEMENT)

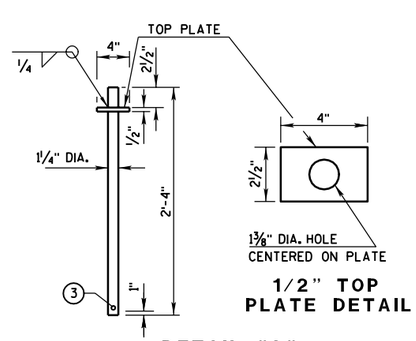


PLAN VIEW

DETAILS OF BARRIER SECTION



DETAILS OF BARRIER CONNECTION



1/2" TOP PLATE DETAIL

DETAIL "A"
CONNECTION PIN
(A36 STEEL (10.9 LB EACH))

GENERAL NOTES

THESE GENERAL NOTES APPLY TO SHEETS 14B7-11(a) THRU 14B7-11(d).

DETAILS OF CONSTRUCTION, MATERIALS AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS AND THE APPLICABLE SPECIAL PROVISIONS.

THIS STANDARD DETAIL DRAWING CONSISTS OF 6 SHEETS, 14B7-11(a) THRU 14B7-11(f).

DETAILS AND REQUIREMENTS FOR THE FABRICATION AND INSTALLATION OF CONCRETE BARRIER TEMPORARY PRECAST, 12'-6" (CBTP12.5) ARE SHOWN ON 4 SHEETS, 14B7-11(a) THRU 14B7-11(d)

DETAILS AND REQUIREMENTS FOR CONCRETE BARRIER TEMPORARY PRECAST, 10'-0" (CBTP10.0) ARE SHOWN ON 2 SHEETS, 14B7-11(e) THRU 14B7-11(f). CONCRETE BARRIER TEMPORARY PRECAST, 10'-0" (CBTP10.0) MAY BE USED UNTIL MAY 31, 2013, BUT ONLY IF ALL THE FOLLOWING CONDITIONS ARE MET:

- THE CBTP10.0 WAS MANUFACTURED BEFORE JUNE 1, 2003.
- THE CBTP10.0 MEETS ALL THE REQUIREMENTS OF STANDARD DETAIL DRAWINGS 14B7-11(e) AND 14B7-11(f).
- THE CBTP10.0 IS IN GOOD CONDITION.

DO NOT INTERMIX CONCRETE BARRIER TEMPORARY PRCAST, 12'-6" (CBTP12.5) WITH CONCRETE BARRIER TEMPORARY PRECAST, 10'-0" (CBTP10.0) IN ANY SINGLE RUN OR INSTALLATION.

USE ASTM A-615, GRADE 60, DEFORMED STEEL BARS FOR BARS 4A1, 6A2, 5B1 AND 4C1 IN THE BARRIER SECTION AND FOR 4V1, 4V2, 4V3, 4V4, 4V5, 4V6, 4F1, 4F2 AND 5F3 IN THE BARRIER TAPER SECTION.

LOOP BARS 6D1, 6D2 AND 6D3 SHALL BE ¾" SMOOTH STEEL BARS WITH A MINIMUM YIELD STRENGTH OF 60 KSI, A TENSILE STRENGTH OF NOT LESS THAN 1.25 TIMES THE YIELD STRENGTH BUT A MINIMUM OF 80 KSI, A MINIMUM 14% ELONGATION IN 8 INCHES AND PASSING A 180 DEGREE BEND TEST USING A 3-½" PIN BEND DIAMETER FOR BEND TESTS. THE LOOPS SHALL BE INSTALLED WITHIN ⅛" OF THE PLAN DIMENSION.

CONSTRUCT LIFTING SLOTS AS SPECIFIED ON THE PLANS TO FACILITATE THE DRAINAGE OF WATER AFTER INSTALLATION.

PLACE BARRIER ON A PAVED SURFACE. REMOVE ALL LOOSE DIRT AND SAND FROM THE ROADWAY SURFACE PRIOR TO PLACEMENT OF THE BARRIER.

(1) MARK ONE END OF EACH BARRIER PERMANENTLY BY STAMPING OR FORMING INTO THE BARRIER THE FOLLOWING INFORMATION:
   a. TYPE CBTP
   b. MANUFACTURER
   c. DATE MANUFACTURED (MONTH AND YEAR)

(2) 1" CHAMFER TO PREVENT SPALLING.

(3) A ⅜" HOLE IN THE CONNECTION PIN, AT THE LOCATION SHOWN, IS ACCEPTABLE, BUT NOT REQUIRED..

(4) "V" NOTCH IS OPTIONAL.

(5) THE 4" DIAMETER, 11 GAUGE STEEL, ROUND MECHANICAL TUBING SLEEVE FOR LIFTING (OPTIONAL).

(6) NEVER USE LOOP BARS (6D1, 6D2 OR 6D3) TO LIFT, MOVE OR REPOSITION THE BARRIER.

(7) USE DELINEATORS CONFORMING TO SECTION 633 OF THE STANDARD SPECIFICATIONS. CONTRACTOR MAY USE ALTERNATE SHAPES AND HOUSING. INSTALL DELINEATORS ACCORDING TO MANUFACTURES INSTRUCTION. INSTALL YELLOW REFLECTORS WHEN BARRIER IS LOCATED TO THE LEFT OF TRAFFIC AND WHITE REFLECTORS WHEN BARRIER IS LOCATED TO THE RIGHT OF TRAFFIC. SPACE DELINEATORS A MAXIMUM OF 25 FEET APART. PROVIDE TOP MOUNTED DELINEATORS IN ADDITION TO THE SIDE MOUNTED DELINEATORS ON ALL BARRIER INSTALLATIONS LOCATED ON A CURVED ALIGNMENT LONGER THAN 200 FEET AND ON BARRIERS USED TO SEPARATE OPPOSING TRAFFIC.

(8) SEE SHEET D FOR ANCHORING CRITERIA.

CONCRETE BARRIER TEMPORARY PRECAST, 12'-6"

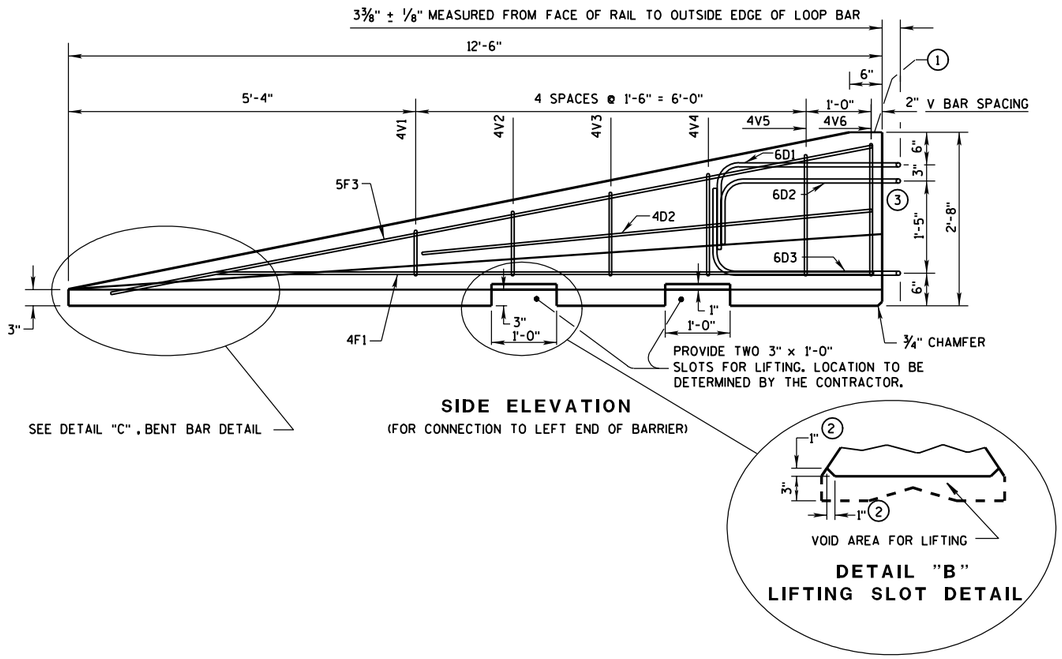
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

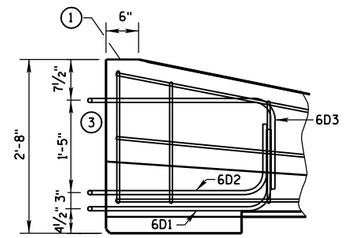
6

S.D.D. 14 B 7-11a

6

S.D.D. 14 B 7-11a





SIDE ELEVATION

LOOP BAR ASSEMBLY INVERTED FOR OPPOSITE END.
(FOR CONNECTION TO RIGHT END OF BARRIER)

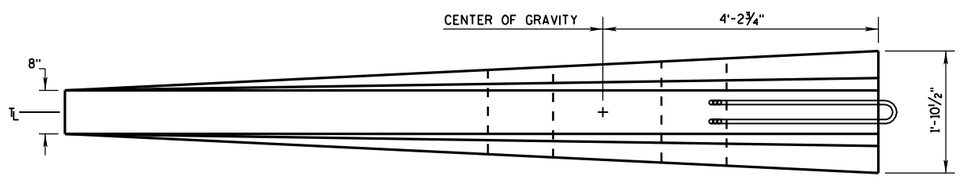
GENERAL NOTES

THE GENERAL NOTES ON SHEET 14B7-11(a) APPLY TO THIS SHEET.

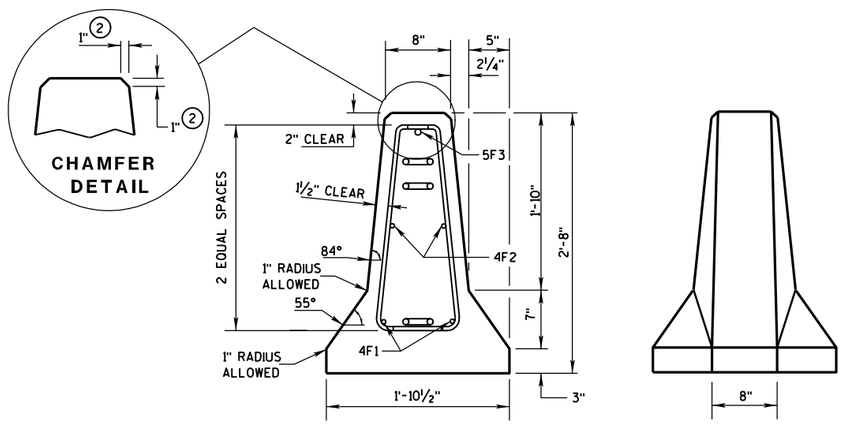
(1) MARK ONE END OF EACH BARRIER PERMANENTLY BY STAMPING OR FORMING INTO THE BARRIER THE FOLLOWING INFORMATION:
- a. TYPE CBTP
- b. MANUFACTURER
- c. DATE MANUFACTURED (MONTH AND YEAR)

(2) 1" CHAMFER TO PREVENT SPALLING.

(3) NEVER USE LOOP BARS (6D1, 6D2 OR 6D3) TO LIFT, MOVE OR REPOSITION THE BARRIER.

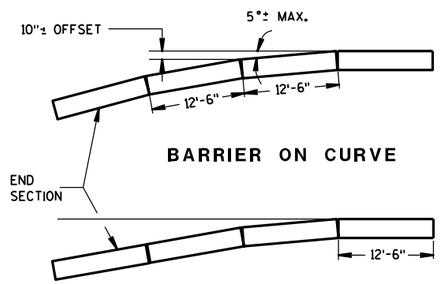


PLAN VIEW



END SECTION

FRONT ELEVATION



FLARE AT BARRIER END

POSTED SPEED, (MPH)	FLARE RATE
40 OR LESS	10:1
45 OR GREATER	15:1

DETAILS OF BARRIER TAPER SECTION

CONCRETE BARRIER
TEMPORARY PRECAST, 12'-6"

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

6

S.D.D. 14 B 7-11b

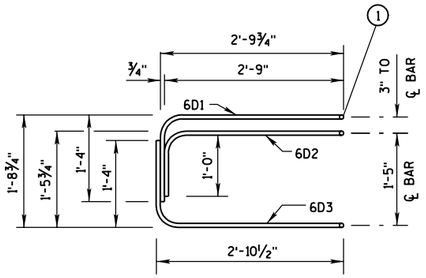
6

S.D.D. 14 B 7-11b

BARRIER TAPER SECTION BILL OF MATERIALS

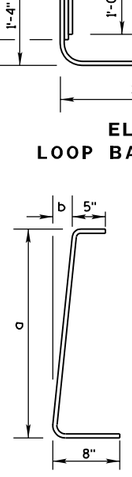
(PER 12'-6" BARRIER TAPER SECTION)

BAR	BAR SIZE	NO. OF BARS	LENGTH FT.
4V1	4	2	1'-11"
4V2	4	2	2'-2"
4V3	4	2	2'-6"
4V4	4	2	2'-9"
4V5	4	2	3'-2"
4V6	4	2	3'-4"
4F1	4	2	12'-0"
4F2	4	2	7'-6"
5F3	5	1	11'-9"
LOOP ASSEMBLY			
6D1	6	1	8'-5"
6D2	6	1	7'-7"
6D3	6	1	8'-6"



ELEVATION
LOOP BAR ASSEMBLY

DETAIL "C"
BENT BAR DETAIL



BAR	a	b
V1	10"	1"
V2	1'-1"	1¼"
V3	1'-5"	1⅝"
V4	1'-8"	1⅞"
V5	2'-0½"	2⅜"
V6	2'-3"	2¾"

4V BARS
2 AT EACH SIZE REQUIRED
FOR STIRRUP ASSEMBLY

TAPER BARRIER SECTION

GENERAL NOTES

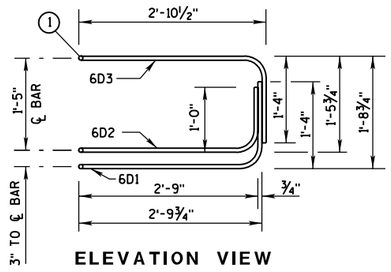
THE GENERAL NOTES ON SHEET 14B7-11(a) APPLY TO THIS SHEET.

(1) NEVER USE LOOP BARS (6D1, 6D2 OR 6D3) TO LIFT, MOVE OR REPOSITION THE BARRIER.

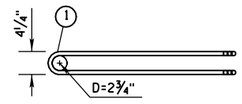
BARRIER SECTION BILL OF MATERIALS

(PER 12'-6" BARRIER SECTION)

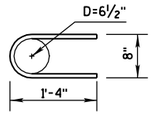
BAR	BAR SIZE	NO. OF BARS	LENGTH FT.
4A1	4	12	6'-0"
6A2	6	6	2'-11"
5B1	5	3	12'-2"
4C1	4	2	12'-2"
LOOP ASSEMBLY			
6D1	6	2	8'-5"
6D2	6	2	7'-7"
6D3	6	2	8'-6"



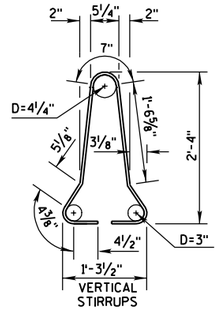
ELEVATION VIEW



PLAN VIEW
LOOP BAR ASSEMBLY
(MARKED END SHOWN, INVERT FOR OTHER END)



6A2



4A1

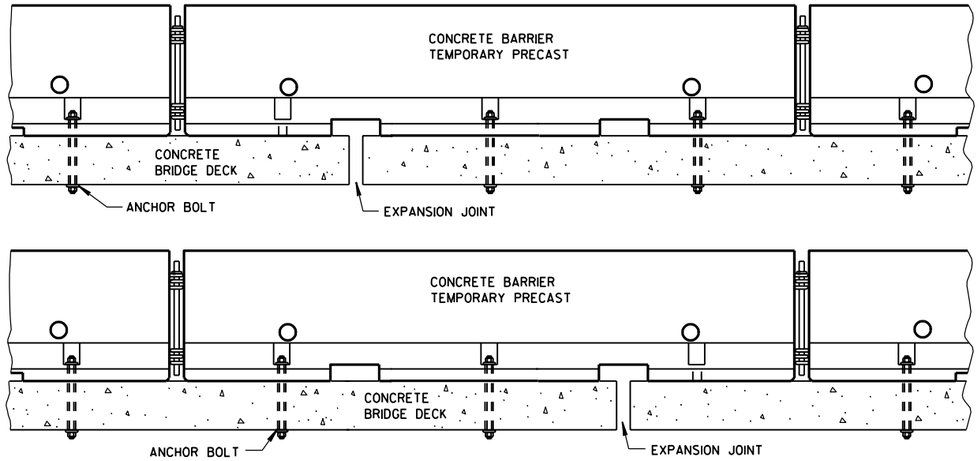
BARRIER SECTION

CONCRETE BARRIER
TEMPORARY PRECAST, 12'-6"

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

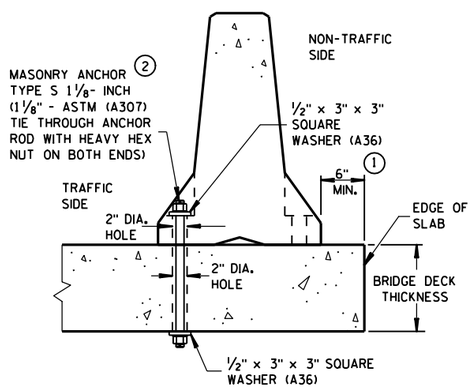
S.D.D. 14 B 7-11c

S.D.D. 14 B 7-11c



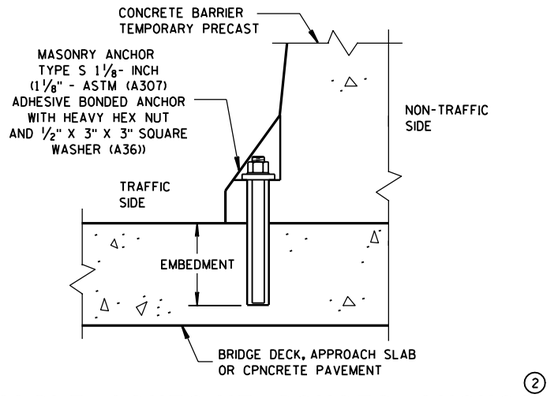
TREATMENT AT BRIDGE DECK EXPANSION JOINTS

(NO SINGLE CONCRETE BARRIER SECTION SHALL BE ANCHORED TO BOTH THE BRIDGE DECK AND THE APPROACH SLAB. ALL ANCHOR BOLT LOCATIONS SHALL BE ANCHORED TO THE DECK IN ACCORDANCE WITH THE DETAIL. NO MORE THAN ONE ANCHOR BOLT SHALL BE ELIMINATED FROM A BARRIER SECTION WHEN SPANNING AN EXPANSION JOINT.)



THROUGH BOLTED ANCHOR INSTALLATION ON BRIDGE DECK

(DO NOTUSE ON CONCRETE BRIDGE DECK WITH ASPHALT OVERLAY)



REMOVABLE ADHESIVE BONDED ANCHOR (2) INSTALLATION ON CONCRETE BRIDGE DECK, CONCRETE APPROACH SLAB, OR CONCRETE PAVEMENT

(DO NOT USE ON CONCRETE WITH AN ASPHALTIC OVERLAY)

GENERAL NOTES

THE GENERAL NOTES ON SHEET 14B7-11(a) APPLY TO THIS SHEET.

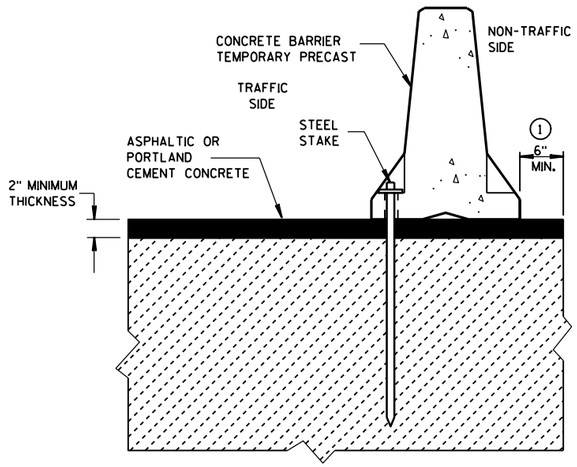
(1) CONCRETE BARRIER TEMPORARY PRECAST, 12'-6" SHALL BE ANCHORED IF:
THE DISTANCE TO A 2 FOOT OR GREATER DROPOFF THAT IS STEEPER THAN 3H : 1V, FOR EXAMPLE THE EDGE OF A BRIDGE DECK OR A DROPOFF AT THE EDGE OF PAVEMENT, IS LESS THAN 4 FEET FROM THE SIDE OF THE BARRIER CLOSEST TO THE DROPOFF AND THE POSTED SPEED IS 45 MPH OR GREATER, OR

THE DISTANCE TO A 2 FOOT OR GREATER DROPOFF THAT IS STEEPER THAN 3H : 1V, FOR EXAMPLE THE EDGE OF A BRIDGE DECK OR A DROPOFF AT THE EDGE OF PAVEMENT, IS LESS THAN 2 FEET FROM THE SIDE OF THE BARRIER CLOSEST TO THE DROPOFF AND THE POSTED SPEED IS 40 MPH OR LESS.

(2) ANCHORING IS INCIDENTAL TO CONCRETE BARRIER TEMPORARY PRECAST.

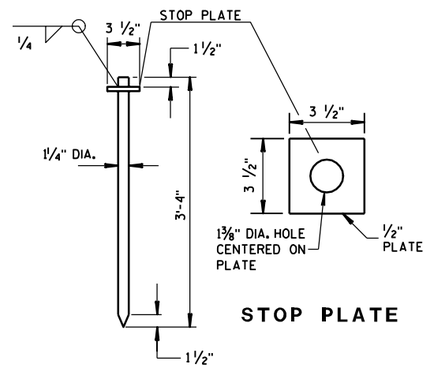
WITH THE APPROVAL OF THE ENGINEER, REMOVABLE ADHESIVE BONDED (EPOXY) ANCHOR BOLT INSTALLATION MAY BE USED IN LIEU OF THROUGH BOLTED ANCHOR INSTALLATION. THE ADHESIVE BONDED ANCHOR BOLT MUST BE REMOVABLE. USE ASTM (A307) MASONRY ANCHORS TYPE S 1⅛-INCH, EMBEDDED TO A DEPTH SUFFICIENT TO DEVELOP THE ULTIMATE CAPACITY OF THE ANCHOR BOLT AND PROVIDE DOCUMENTATION TO CONFIRM THIS.

UPON REMOVAL OR RELOCATION OF THE BARRIER UNITS, REMOVE ALLANCHOR BOLTS AND COMPLETELY FILL IN THE REMAINING HOLES IN CONCRETE BRIDGE DECKS, CONCRETE APPROACH SLABS AND CONCRETE PAVEMENTS THAT ARE TO REMAIN, WITH A NON-SHRINK COMMERICAL GROUT OR EPOXY MATERIAL IDENTIFIED ON THE CURRENT WISDOT APPROVED PRODUCTS LIST.



STAKE DOWN INSTALLATION FOR ASPHALTIC OR PORTLAND CEMENT CONCRETE SURFACE

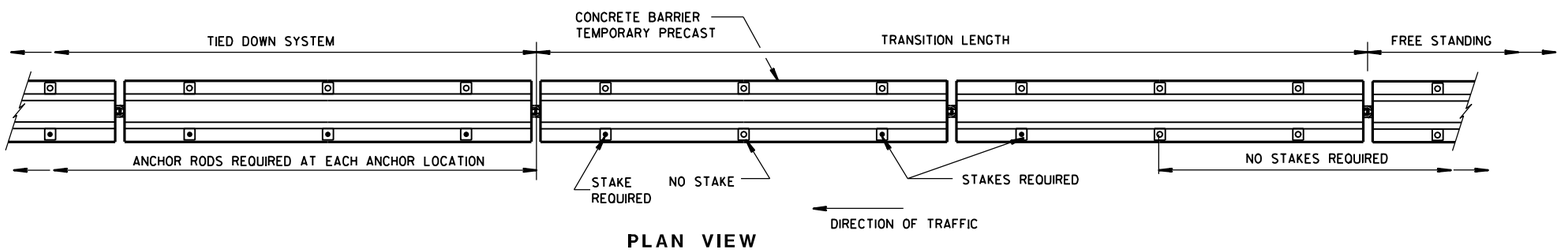
(STAKING IS INCIDENTAL TO CONCRETE BARRIER TEMPORARY PRECAST)



STOP PLATE

STEEL STAKE

(A36 STEEL)



PLAN VIEW

FREE STANDING TRANSITION TO TIED-DOWN SYSTEM

(PLACE TRANSITION IN A TANGENT SECTION OF BARRIER PARALLEL TO THE ROADWAY. IF TRANSITION OCCURS ON STRUCTURAL SLAB, ANCHOR AS SHOWN.)

CONCRETE BARRIER
TEMPORARY PRECAST, 12'-6"

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
10-24-06
DATE
FHWA

/S/ Jerry H. Zogg
ROADWAY STANDARD DEVELOPMENT ENGINEER

6

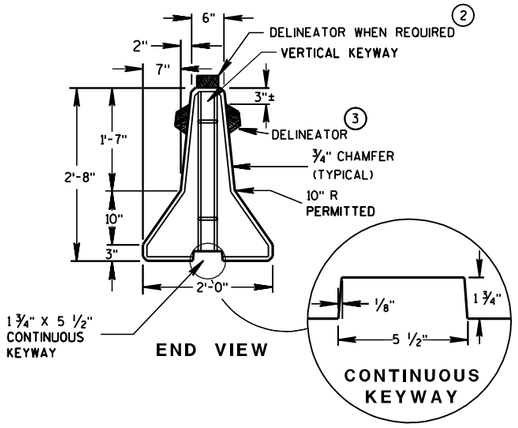
S.D.D. 14 B 7-11d

6

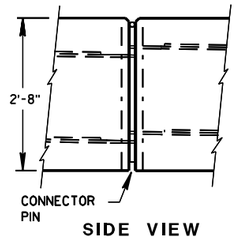
S.D.D. 14 B 7-11d

DESCRIPTION	SIZE	NO. REQ'D	LENGTH
TOP CONNECTOR WIRE ROPE (1)	1/2"	2	6'-0"
BOTTOM CONN. WIRE ROPE (1)	1/2"	2	6'-0"
TOP CONNECTOR STEEL BAR	NO. 4	1	9'-0"
BOTTOM CONN. STEEL BAR	NO. 4	1	9'-0"
STEEL CONNECTING PIN	1 1/4" DIA.	1	2'-6"
BOTTOM TIE BARS	NO. 4	5	1'-8"
VERTICAL STEEL BAR	NO. 4	10	2'-1"
HORIZONTAL STEEL BAR	NO. 5	4	9'-4"

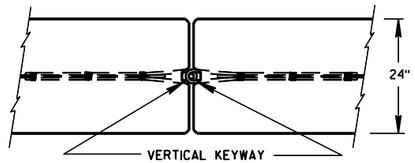
BILL OF MATERIALS



END VIEW



SIDE VIEW



PLAN VIEW

PIN & LOOP CONNECTION DETAILS

GENERAL NOTES

THESE GENERAL NOTES APPLY TO SHEETS 14B7-11(e) AND 14B7-11(f).

DETAILS OF CONSTRUCTION, MATERIALS AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS AND THE APPLICABLE SPECIAL PROVISIONS.

THIS STANDARD DETAIL DRAWING CONSISTS OF 6 SHEETS, 14B7-11(a) THRU 14B7-11(f).

DETAILS AND REQUIREMENTS FOR THE FABRICATION AND INSTALLATION OF CONCRETE BARRIER TEMPORARY PRECAST, 12'-6" (CBTP12.5) ARE SHOWN ON 4 SHEETS, 14B7-11(a) THRU 14B7-11(d).

DETAILS AND REQUIREMENTS FOR CONCRETE BARRIER TEMPORARY PRECAST, 10'-0" (CBTP10.0) ARE SHOWN ON 2 SHEETS, 14B7-11(e) THRU 14B7-11(f). CONCRETE BARRIER TEMPORARY PRECAST, 10'-0" (CBTP10.0) MAY BE USED UNTIL MAY 31, 2013, BUT ONLY IF ALL THE FOLLOWING CONDITIONS ARE MET:

- THE CBTP10.0 WAS MANUFACTURED BEFORE JUNE 1, 2003.
- THE CBTP10.0 MEETS ALL THE REQUIREMENTS OF STANDARD DETAIL DRAWINGS 14B7-11(e) AND 14B7-11(f).
- THE CBTP10.0 IS IN GOOD CONDITION.

DO NOT INTERMIX CONCRETE BARRIER TEMPORARY PRCAST, 12'-6" (CBTP12.5) WITH CONCRETE BARRIER TEMPORARY PRECAST, 10'-0" (CBTP10.0) IN ANY SINGLE RUN OR INSTALLATION.

PLACE BARRIER ON PAVED SURFACE. REMOVE ALL LOOSE DIRT AND SAND FROM THE ROADWAY SURFACE PRIOR TO PLACEMENT OF THE BARRIER.

DO NOT ANCHOR CONCRETE BARRIER TEMPORARY PRECAST 10'-0".

BARRIERS SHALL BE REINFORCED WITH EITHER BAR STEEL REINFORCEMENT AS DETAILED ON THIS DRAWING OR WELDED STEEL WIRE FABRIC ADEQUATE TO ASSURE SAFE HANDLING STRENGTH.

ALL STEEL REINFORCEMENT SHALL BE EMBEDDED 2 INCHES CLEAR UNLESS OTHERWISE SHOWN.

WIRE ROPE SHALL BE ZINC-COATED 6 X 19 CLASS 2 IWRC WITH A MINIMUM BREAKING STRENGTH OF 20,000 LBS. AND SHALL CONFORM TO FEDERAL SPECIFICATION RR-W-410. THE ZINC COATING SHALL CONFORM TO TABLE II OF THE FEDERAL SPECIFICATIONS.

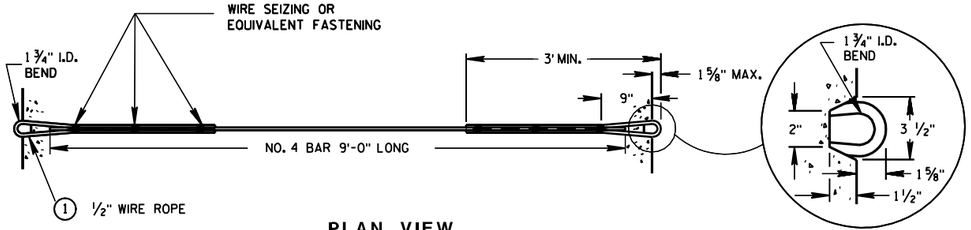
DELINEATORS SHALL CONFORM TO SECTION 633 OF THE STANDARD SPECIFICATIONS EXCEPT THE SHAPE SHALL BE AS SHOWN ON THIS DRAWING. ALTERNATIVE SHAPES MAY BE USED WHEN APPROVED BY THE ENGINEER. CONCRETE SURFACE PREPARATION, ADHESIVE AND METHOD OF APPLICATION SHALL BE AS RECOMMENDED BY THE DELINEATOR MANUFACTURER. THE COLOR OF REFLECTORS SHALL BE YELLOW WHEN LOCATED TO THE LEFT OF TRAFFIC AND WHITE WHEN LOCATED TO THE RIGHT OF TRAFFIC. MAXIMUM SPACING SHALL BE 20 FEET.

CONCRETE BARRIER TEMPORARY PRECAST, 10'-0", WHETHER UN-RESTRAINED OR RESTRAINED, SHALL NOT BE USED IF THE DISTANCE TO A 2 FOOT OR GREATER DROPOFF THAT IS STEEPER THAN 3H : 1V, FOR EXAMPLE THE EDGE OF A BRIDGE DECK OR A DROPOFF AT THE EDGE OF PAVEMENT, IS LESS THAN 8 FEET FROM THE SIDE OF THE BARRIER CLOSEST TO THE DROPOFF.

(1) CONNECTOR ASSEMBLIES MAY, AT THE CONTRACTORS OPTION, BE FORMED FROM A CONTINUOUS SECTION OF 1/2 INCH WIRE ROPE (16'-6" MIN. LENGTH). THE NO 4 CONNECTOR STEEL BARS MAY THEN BE OMITTED.

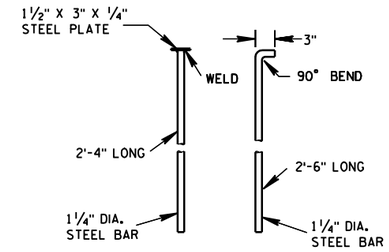
(2) TOP MOUNTED DELINEATORS SHALL BE PROVIDED IN ADDITION TO THE SIDE MOUNTED DELINEATORS ON ALL BARRIER INSTALLATIONS LOCATED ON CURVED ALIGNMENT LONGER THAN 200 FT.

(3) BARRIERS USED TO SEPARATE OPPOSING TRAFFIC SHALL HAVE DELINEATORS ON BOTH SIDES. TOP MOUNTED DELINEATORS SHALL BE DOUBLE FACED FOR THIS CONDITION.

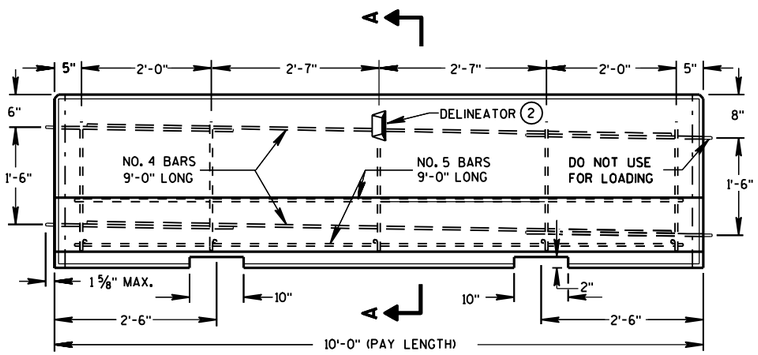


PLAN VIEW

TOP & BOTTOM CONNECTOR ASSEMBLY (1)

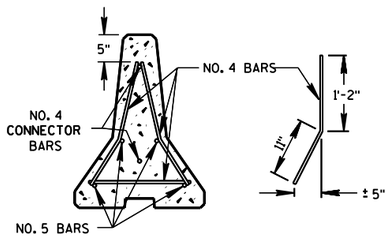


ALTERNATE CONNECTING PINS



SIDE VIEW

LOCATION OF REINFORCEMENT STEEL



SECTION A-A

BAR STEEL REINFORCEMENT

CONCRETE BARRIER TEMPORARY PRECAST, 10'-0"

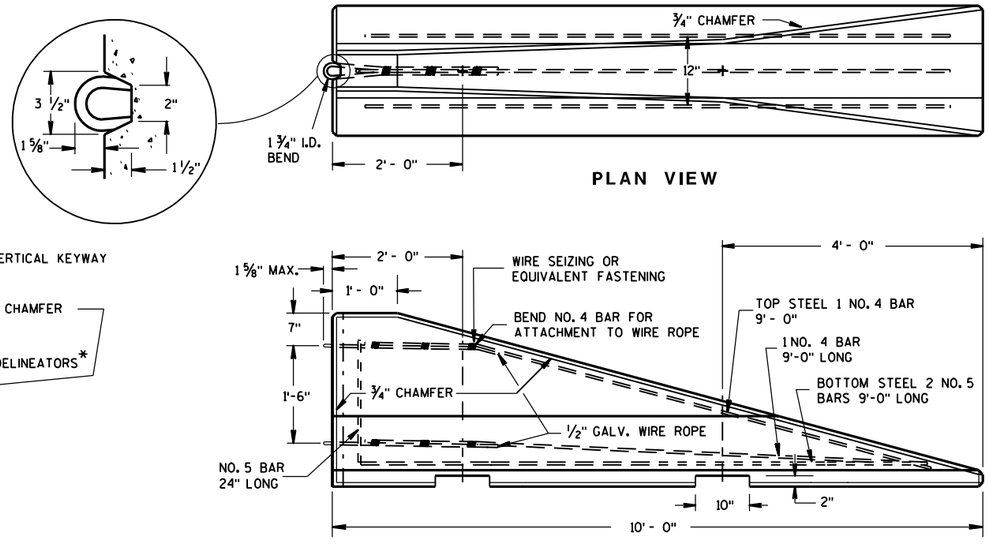
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

6

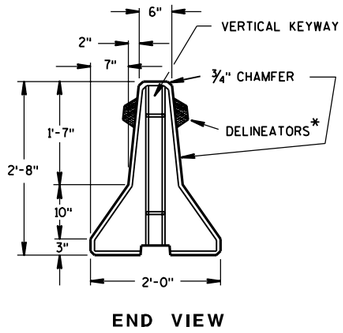
S.D.D. 14 B 7-11e

6

S.D.D. 14 B 7-11e



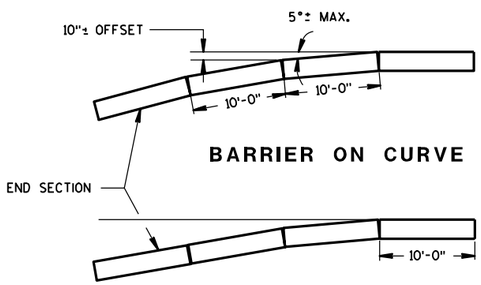
PLAN VIEW



END VIEW

SIDE VIEW

END SECTION FOR TEMPORARY PRECAST CONCRETE BARRIER



POSTED SPEED, (MPH)	FLARE RATE
40 OR LESS	10:1
45 OR GREATER	15:1

GENERAL NOTES

THE GENERAL NOTES ON SHEET 14B7- 11(e) APPLY TO THIS SHEET.

* WHEN BARRIERS ARE USED TO SEPARATE OPPOSING TRAFFIC, DELINEATORS ARE REQUIRED ON BOTH SIDES.

CONCRETE BARRIER TEMPORARY PRECAST, 10'-0"

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED

10/24/06
DATE

/S/ Jerry H. Zogg
ROADWAY STANDARDS DEVELOPMENT ENGINEER

FHWA

6

S.D.D. 14B 7-11f

6

S.D.D. 14B 7-11f

GENERAL NOTES

DETAILS OF CONSTRUCTION, MATERIALS AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS, AND THE APPLICABLE SPECIAL PROVISIONS.

(1) W6 X 9 OR W6 X 8.5 STEEL POSTS AND NOTCHED PLASTIC BLOCKOUTS ARE ACCEPTABLE ALTERNATIVES FOR 6" X 8" WOOD POSTS WITH WOOD OR PLASTIC BLOCKOUTS. USE APPROVED NOTCHED PLASTIC BLOCKOUTS WITH STEEL POSTS. APPROVED PLASTIC BLOCKOUT DESIGNS MAY VARY FROM THIS TYPICAL DETAIL WHEN USED IN CONJUNCTION WITH STEEL POSTS.

DO NOT MIX STEEL POSTS AND WOOD POSTS IN A SINGLE INSTALLATION.

(2) USE STRUCTURAL STEEL POSTS CONFORMING TO ASTM A 36. GALVANIZED POSTS ACCORDING TO AASHTO M 111. EITHER SET THE POSTS IN DRILLED HOLES OR DRIVE TO GRADE. REMOVE MUSHROOMING CAUSED BY DRIVING AND REPAIR DAMAGED SPELTER COATING ON GALVANIZED POSTS.

(3) INSTALL STEEL POSTS WITH HOLES ON APPROACHING TRAFFIC SIDE.

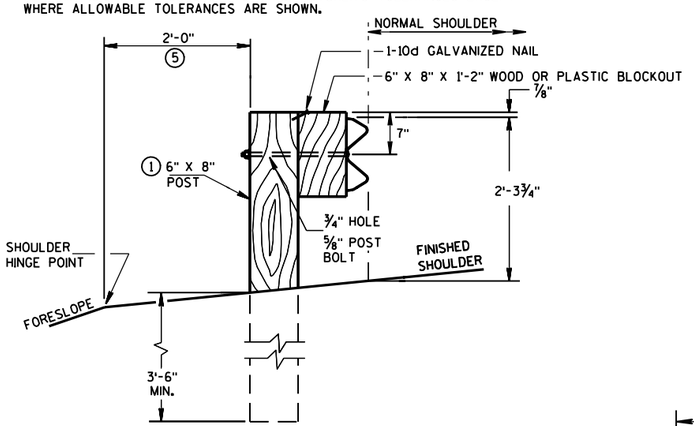
(4) USE EITHER WOOD OR APPROVED PLASTIC BLOCKOUTS ON WOOD POSTS.

(5) WHEN SPECIFIED IN THE PLANS, THE SHOULDER HINGE POINT MAY BE BETWEEN THE FRONT FACE OF THE POST AND 2 FEET BEHIND THE BACK OF THE POST, IF EXISTING CONDITIONS DO NOT PERMIT THE DESIRABLE EARTHWORK.
INCREASE POST DEPTH TO PROVIDE A MINIMUM EMBEDMENT OF 4'-6" WHERE THE SHOULDER HINGE POINT IS LOCATED BETWEEN THE FRONT FACE OF THE POST AND 2 FEET BEHIND THE BACK OF THE POST.

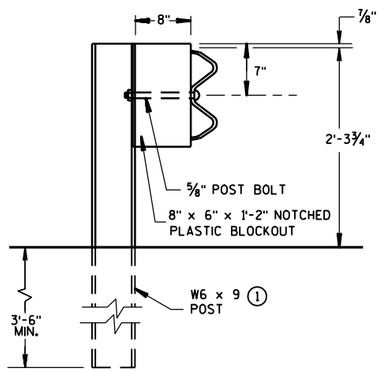
(6) IF ROCK IS ENCOUNTERED DURING EXCAVATION, THE ENGINEER MAY APPROVE USING A 12 INCH DIAMETER POST HOLE EXTENDING 20 INCHES DEEP INTO THE ROCK. PLACE GRANULAR MATERIAL IN THE BOTTOM OF THE HOLE APPROXIMATELY 2½ INCHES DEEP. CUT THE POSTS TO LENGTH AND PLACE IN YHE HOLE. BACKFILL WITH MATERIAL EXCAVATED FROM THE HOLE AND COMPACT ADEQUATEY.

INSTALL BEAM GUARD SECTIONS AND ALL NECESSARY HARDWARE ACCORDING TO THE APPLICABLE PLAN AND CURRENT STANDARD AND SUPPLEMENTAL SPECIFICATIONS.

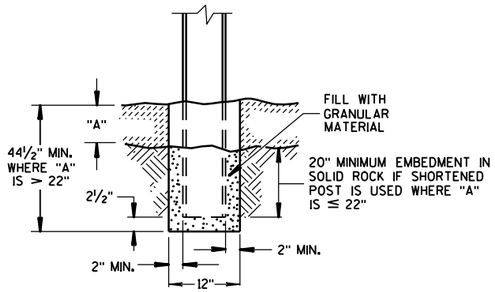
ALL DIMENSIONS ARE SUBJECT TO MANUFACTURER'S TOLERANCES EXCEPT WHERE ALLOWABLE TOLERANCES ARE SHOWN.



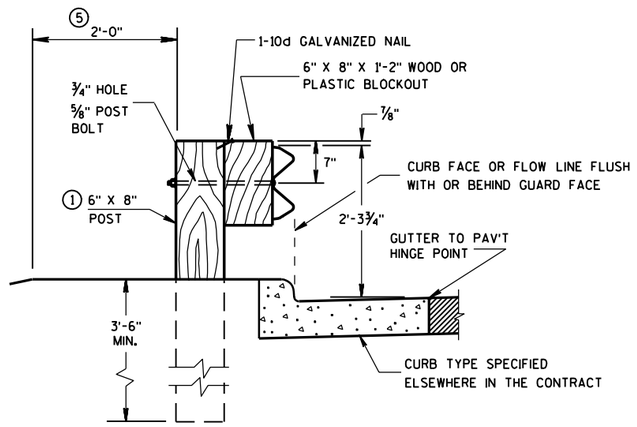
END VIEW
LOCATED ALONG A ROADWAY SHOULDER



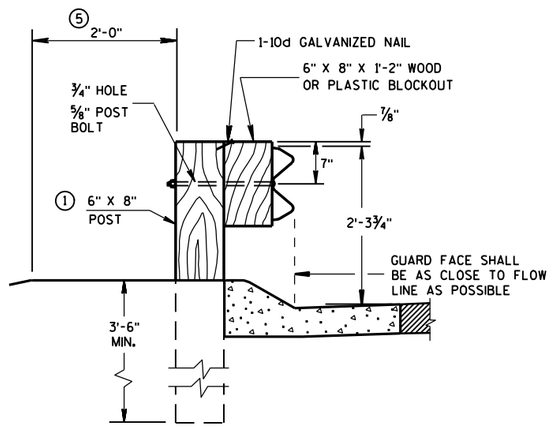
END VIEW
STEEL POST & NOTCHED
PLASTIC BLOCKOUT ALTERNATIVE



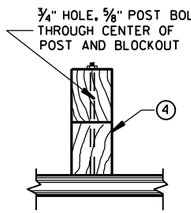
END VIEW
SETTING STEEL OR WOOD POST IN ROCK (6)



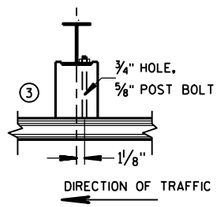
END VIEW
LOCATED ALONG A CURBED ROADWAY



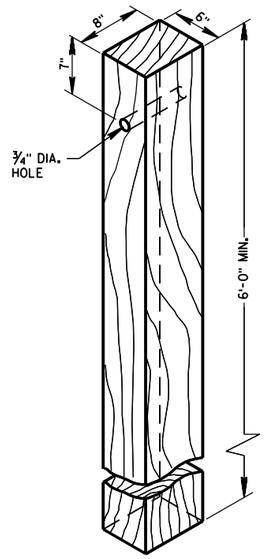
END VIEW
LOCATED ALONG A
MOUNTABLE CURBED ROADWAY



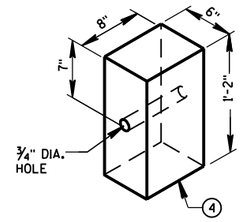
PLAN VIEW
WOOD POST,
BLOCKOUT & BEAM



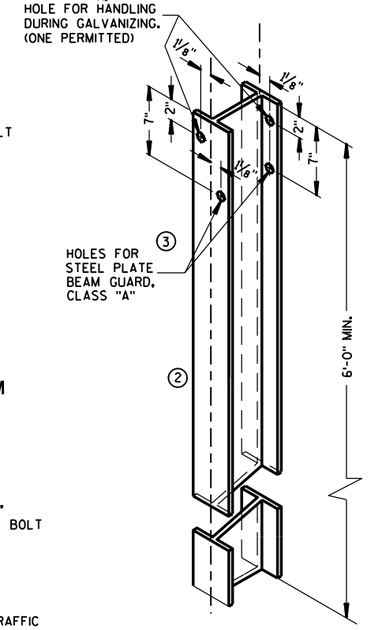
PLAN VIEW
STEEL POST, NOTCHED
PLASTIC BLOCKOUT & BEAM



WOOD POST
(6"X8") NOMINAL

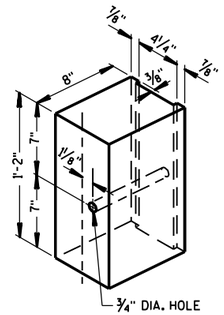


WOOD OR PLASTIC
BLOCKOUT FOR WOOD POSTS



STEEL POST &
HOLE PUNCHING DETAIL
(W6 X 9) (1)

ALL HOLES 13/16" DIAMETER EXCEPT AS NOTED



TYPICAL NOTCHED PLASTIC (1)
BLOCKOUT FOR STEEL POSTS

STEEL PLATE BEAM GUARD,
CLASS "A"
INSTALLATION & ELEMENTS

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

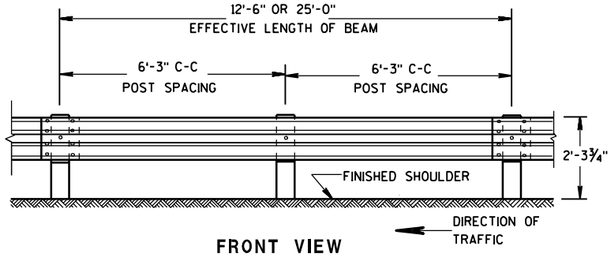
TYPICAL INSTALLATION OF STEEL PLATE BEAM GUARD

6

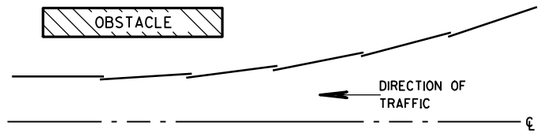
S.D.D. 14 B 15-5a

6

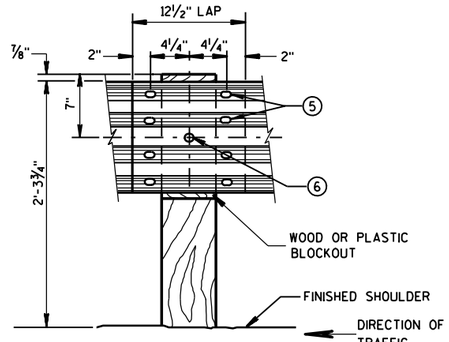
S.D.D. 14 B 15-5a



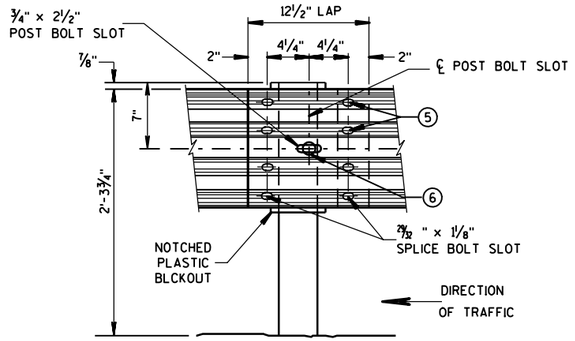
FRONT VIEW



PLAN VIEW
BEAM LAPPING DETAIL



FRONT VIEW
BEAM SPLICE AT WOOD POST
AND POST MOUNTING DETAIL

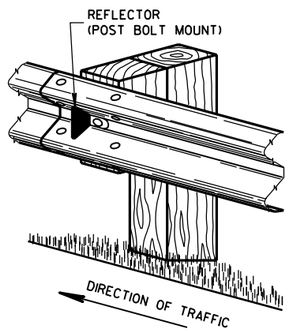


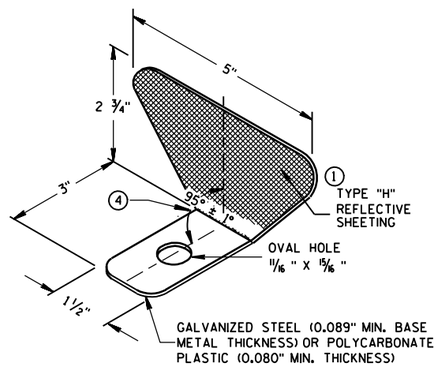
FRONT VIEW
BEAM SPLICE AT STEEL POST

TYPICAL SPLICING DETAILS OF STEEL PLATE BEAM GUARD

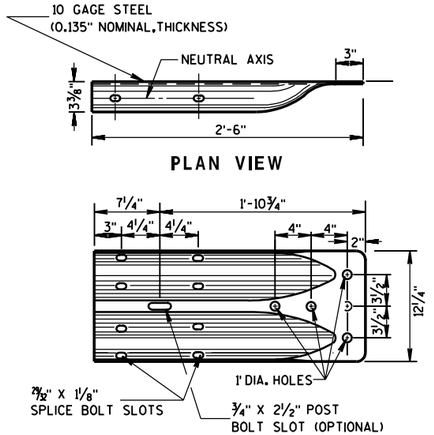
REFLECTOR SPACING (2)

	BEAM GUARD LENGTH	REFLECTOR SPACING	NO. SURFACES REFLECTORIZED	MIN. NO. REFLECTORS
ONE WAY TRAFFIC	< 200'	50' C-C	1	3
	> 200'	100' C-C	1	
TWO WAY TRAFFIC	< 200'	25' C-C	1 (3)	6
	> 200'	50' C-C	1 (3)	
TWO WAY TRAFFIC	< 200'	50' C-C	2	3
	> 200'	100' C-C	2 (4)	





ONE SIDED REFLECTOR DETAIL AND TYPICAL INSTALLATION (1)

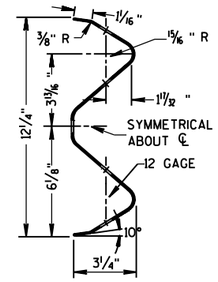


W BEAM TERMINAL CONNECTOR

(USE ONLY ON THE TRAFFIC EXIT END OF ONE WAY BRIDGES)

GENERAL NOTES

1. PROVIDE TYPE "H" SILVER REFLECTIVE SHEETING ON ALL REFLECTORS EXCEPT THOSE LOCATED ALONG THE LEFT EDGE OF ONE-WAY ROADWAYS, WHICH SHALL BE PROVIDED WITH TYPE "H" YELLOW REFLECTIVE SHEETING.
2. DO NOT INSTALL REFLECTORS ON THE FIRST 50 FEET OF THE APPROACH END OF THE ENERGY ABSORBING TERMINAL.
3. REVERSE EVERY OTHER REFLECTOR FOR 2-WAY VISIBILITY. THE CONTRACTOR MAY FURNISH TWO-SIDED REFLECTORS IN LIEU OF ONE-SIDED REFLECTORS.
4. PROVIDE AN ANGLE OF BEND OF 90° ± 1° FOR TWO-SIDED REFLECTORS.
5. 8 -⅝" ϕ X 1¼" BUTTON HEAD BOLTS WITH OVAL SHOULDERS & RECESS NUTS.
6. ⅝" ϕ X 1'-6" BUTTON HEAD BOLT AND AND RECESS NUT WITH ROUND WASHER UNDER NUT.



SECTION THRU W BEAM

STEEL PLATE BEAM GUARD,
CLASS "A",
INSTALLATION & ELEMENTS

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

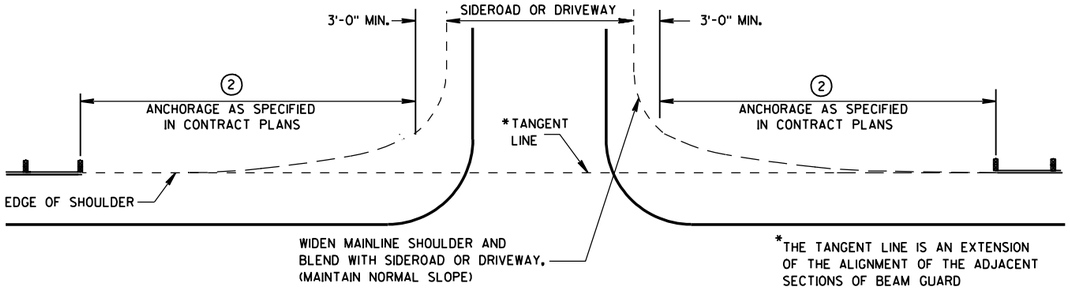
APPROVED
10/23/06 — DATE
/S/ Jerry H. Zogg — ROADWAY STANDARDS DEVELOPMENT ENGINEER
FHWA

6

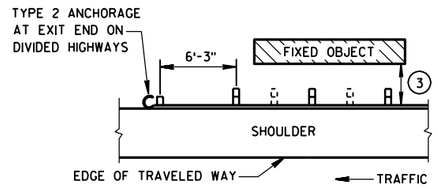
S.D.D. 14 B 15-5b

6

S.D.D. 14 B 15-5b



BEAM GUARD AT SIDEROADS OR DRIVEWAYS



BEAM GUARD AT OBSTACLES EXIT END - ONE WAY TRAFFIC

GENERAL NOTES

DETAILS OF CONSTRUCTION, MATERIALS AND WORKMANSHIP SHALL CONFORM TO THE PERTINENT STANDARD SPECIFICATIONS AND THE APPLICABLE SPECIAL PROVISIONS.

W6 X 9 OR W6 X 8.5 STEEL POSTS WITH NOTCHED PLASTIC BLOCKOUTS ARE ACCEPTABLE ALTERNATIVES FOR 6" X 8" WOOD POSTS WITH WOOD OR PLASTIC BLOCKOUTS. USE APPROVED NOTCHED PLASTIC BLOCKOUTS WITH STEEL POSTS.

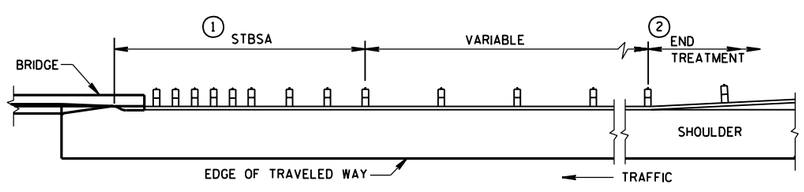
THE LOCATIONS AND LENGTHS OF BEAM GUARD ARE SHOWN ELSEWHERE IN THE PLAN.

(1) STEEL THRIE BEAM STRUCTURAL APPROACH (STBSA) - SEE SDD 14B20.

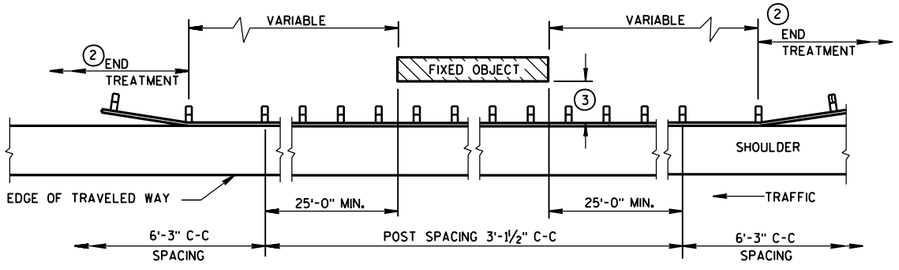
(2) USE AN APPROVED END TREATMENT FOR THE TRAFFIC APPROACH SIDE OF BRIDGE/OBSTACLES. USE TYPE 2 ANCHORAGE ONLY AT THE DOWNSTREAM ENDS OF BEAM GUARD LOCATED ALONG ROADWAYS WITH ONE WAY TRAFFIC.

(3)

MINIMUM LATERAL DISTANCE FROM FACE OF BEAM GUARD TO FIXED OBJECT	POST SPACING
3'-6"	3' - 1½"
4'-6"	6' - 3"

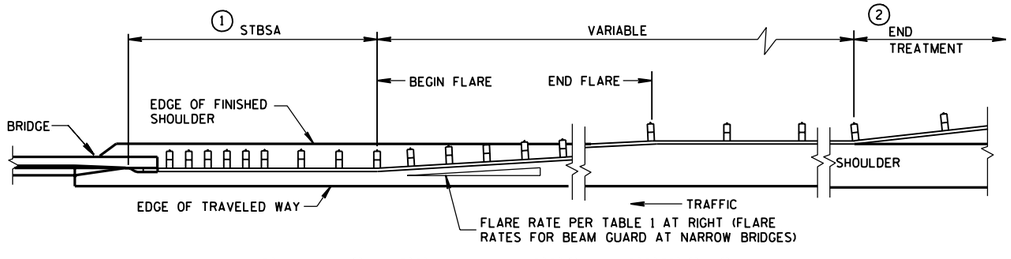


BEAM GUARD AT FULL WIDTH BRIDGES



BEAM GUARD AT OSBSTACLES - TWO WAY TRAFFIC

(RAIL TO OBSTACLE CLEARANCE 3'-6" TO 4'-6")



BEAM GUARD AT NARROW BRIDGES

(FLARED TO SHOULDER EDGE, THEN PARALLEL TO ROADWAY)

TABLE 1
FLARE RATES FOR BEAM GUARD AT NARROW BRIDGES

POSTED SPEED (MPH)	FLARE RATE
25	13:1
30	15:1
35	16:1
40	18:1
45	21:1
50	24:1
55	26:1
65	30:1

STEEL PLATE BEAM GUARD, CLASS "A" (AT BRIDGES, OBSTACLES AND SIDEROADS/DRIVEWAYS)

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

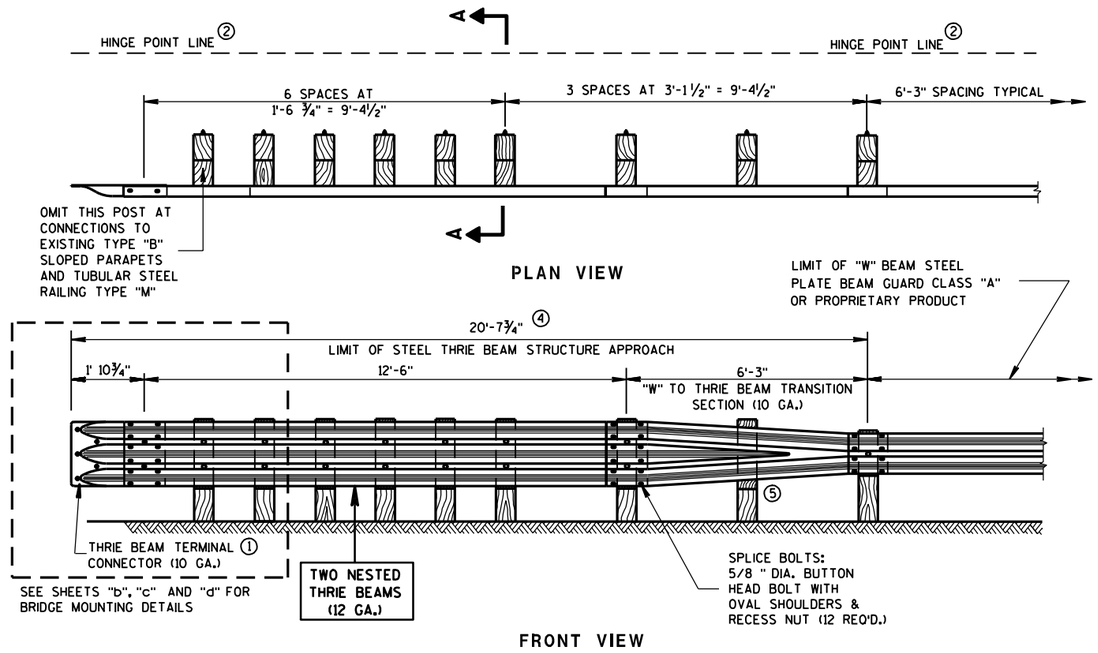
APPROVED
10-23-06 DATE
/S/ Jerry H. Zogg
ROADWAY STANDARDS DEVELOPMENT ENGINEER
FHWA

6

S.D.D. 14 B 18-5a

6

S.D.D. 14 B 18-5a



GENERAL NOTES

DETAILS OF CONSTRUCTION, MATERIALS AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS AND THE APPLICABLE SPECIAL PROVISIONS.

FURNISH AND CONSTRUCT THRIE BEAM STRUCTURAL APPROACH ACCORDING TO THE REQUIREMENTS OF SECTION 614 OF THE STANDARD SPECIFICATIONS. THRIE BEAM SECTIONS SHALL CONFORM TO THE REQUIREMENTS OF AASHTO DESIGNATION M180, CLASS "A", TYPE 2.

BOLT THE THRIE BEAM TO ALL POSTS AND BLOCKOUTS. DRILL OR PUNCH BOLT HOLES IN THE BEAM IF THE POST SPACING IS LESS THAN 6'-3.

DO NOT USE STEEL POSTS AND NOTCHED PLASTIC BLOCKOUTS IN THE STEEL THRIE BEAM STRUCTURAL APPROACH AND THE TRANSITION SECTION OF STEEL PLATE BEAM GUARD, CLASS "A" INSTALLATIONS.

IF ROCK IS ENCOUNTERED DURING EXCAVATION, THE ENGINEER MAY APPROVE USING A 12 INCH DIAMETER POST HOLE EXTENDING 20 INCHES DEEP INTO THE ROCK. PLACE GRANULAR MATERIAL IN THE BOTTOM OF THE HOLE APPROXIMATELY 2½ INCHES DEEP. CUT THE POSTS TO LENGTH AND PLACE IN THE HOLE. BACKFILL WITH MATERIAL EXCAVATED FROM THE HOLE AND COMPACT ADEQUATELY. (SEE SDD 14 B 15-4a).

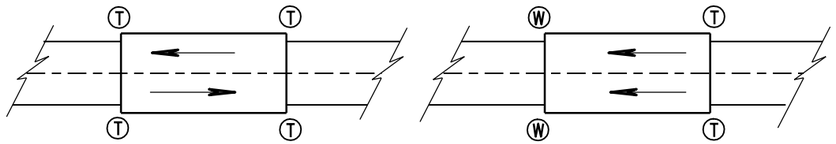
① BRIDGE RAILING TYPE "W" DOES NOT REQUIRE A TERMINAL CONNECTOR.

② MINIMUM EMBEDMENT SHALL BE 4'-0". WHERE EXISTING CONDITIONS DO NOT PERMIT THE APPROPRIATE EARTHWORK SHOWN ON THE PLAN TYPICAL SECTIONS OR DETAILS, THE ENGINEER MAY ALLOW THE REDUCTION OR ELIMINATION OF THE 2 FOOT DISTANCE TO THE HINGE POINT. OTHERWISE BUILD AS THE PLAN SHOWS OR AS THE ENGINEER DIRECTS. IF THE 2 FOOT DISTANCE TO THE HINGE POINT IS REDUCED OR ELIMINATED, INCREASE THE POST EMBEDMENT DEPTH TO 4'-6" OR MORE.

③ BOLTS SHALL CONFORM TO THE REQUIREMENTS OF ASTM F-1554, GRADE 55. NUTS SHALL CONFORM TO THE REQUIREMENTS OF ASTM A-563 DH.

④ ALL WOOD POSTS MUST BE 6" X 8" AND AT LEAST 7'-0" LONG.

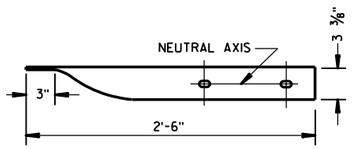
⑤ DO NOT ATTACH POST IN "W" TO THRIE BEAM TRANSITION SECTION.

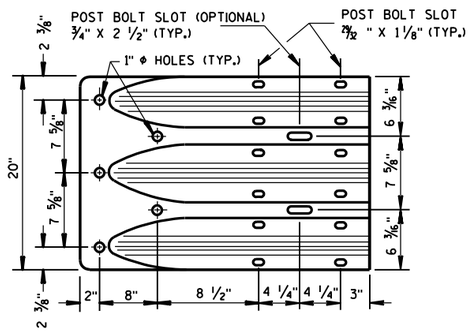


Ⓣ THRIE BEAM CONNECTION

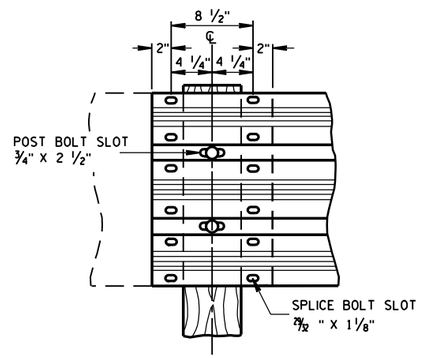
Ⓦ W-BEAM CONNECTION WHEN REQUIRED

TYPICAL LOCATIONS OF THRIE BEAM AND W-BEAM CONNECTIONS TO BRIDGE

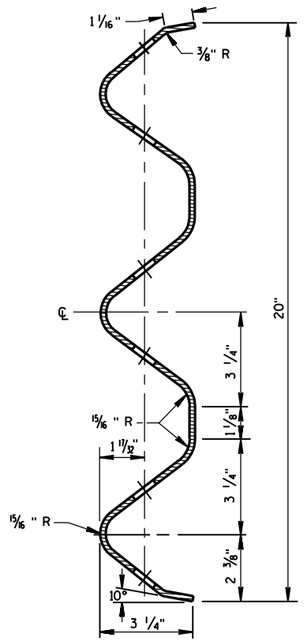




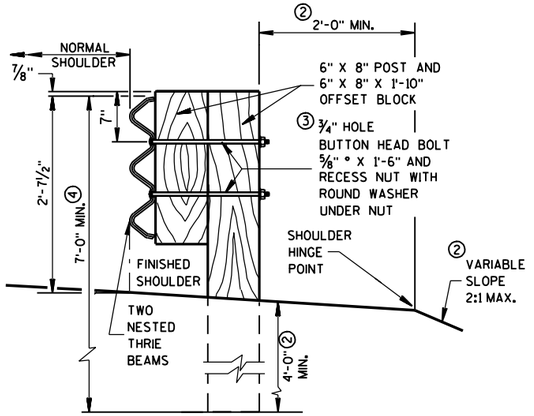
THRIE BEAM TERMINAL CONNECTOR



THRIE BEAM SPLICE



SECTION THRU THRIE BEAM RAIL ELEMENT



SECTION A-A

STEEL THRIE BEAM STRUCTURE APPROACH

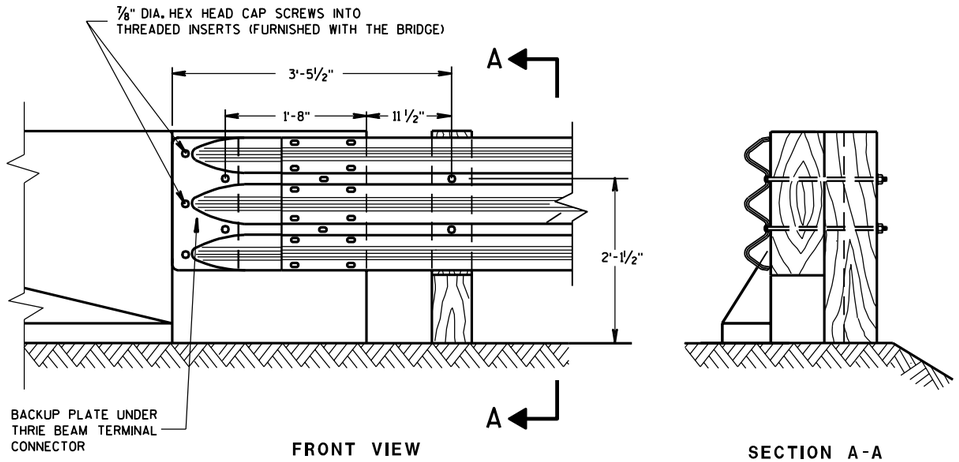
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

6

S.D.D. 14 B 20-6a

6

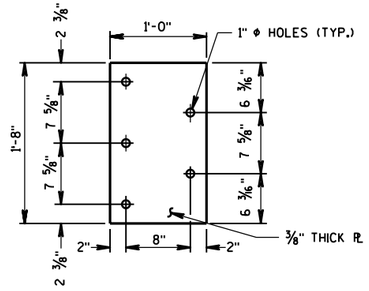
S.D.D. 14 B 20-6a



FRONT VIEW

SECTION A-A

THRIE BEAM CONNECTION TO BRIDGE PARAPET WITH SQUARE ENDS



② BACKUP PLATE DETAIL

(USE ONLY AT BRIDGE PARAPET CONNECTIONS)

GENERAL NOTES

THESE ARE TYPICAL CONNECTION DETAILS. ADJUST THE POSTION OF CONNECTIONS TO EXISTING BRIDGES TO FIT THE ACTUAL BRIDGE AND SITE DIMENSIONS.

BOLTS, PLATES, NUTS AND WASHERS SHALL CONFORM TO THE REQUIREMENTS OF ASTM SPECIFICATION A 325, AND BE GALVANIZED IN ACCORDANCE WITH ASTM A 153.

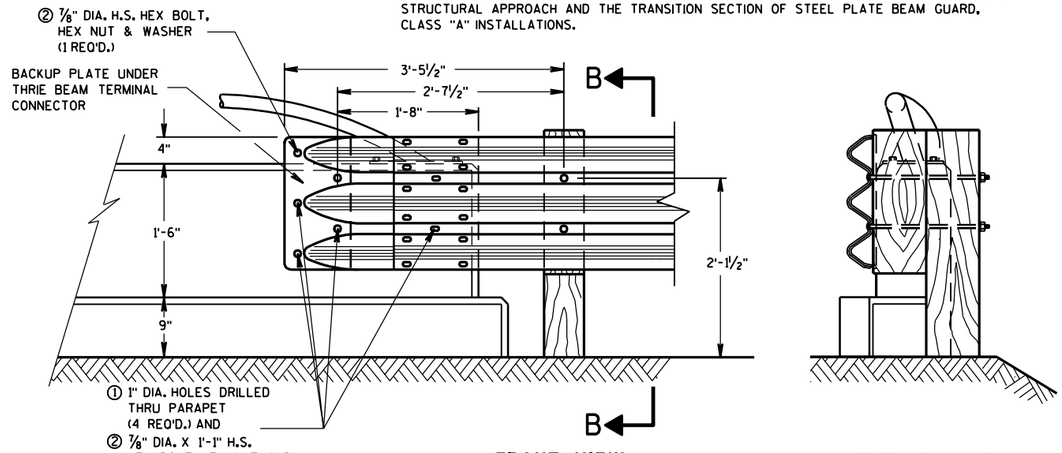
① INCLUDE THE PAYMENT FOR DRILLING BOLT HOLES THROUGH THE PARAPET, AND THE BACKUP PLATE AND ALL BOLTS, NUTS AND WASHERS IN THE ITEM "STEEL THRIE BEAM STRUCTURAL APPROACH".

② EACH BOLT AT THE BACK FACE OF THE PARAPET REQUIRES A HARDENED ROUND STEEL WASHER WITH A 2 1/4" O.D. X 5/32 " THICK.

③ THE RECESS FOR A W-BEAM CONNECTION, WHICH EXISTS ON SOME PARAPETS OF THIS TYPE, SHALL BE FILLED WITH A TREATED TIMBER BLOCKOUT. BLOCKOUT SIZE IS 1'-6" X 2'-0" X 3 1/2".

④ W6 X 9 OR W6 X 8.5 STEEL POSTS AND NOTCHED PLASTIC BLOCKOUTS ARE ACCEPTABLE ALTERNATIVES FOR 6" X 8" WOOD POST WITH WOOD OR PLASTIC BLOCKOUTS. USE APPROVED NOTCHED PLASTIC BLOCKOUTS WITH STEEL POSTS.

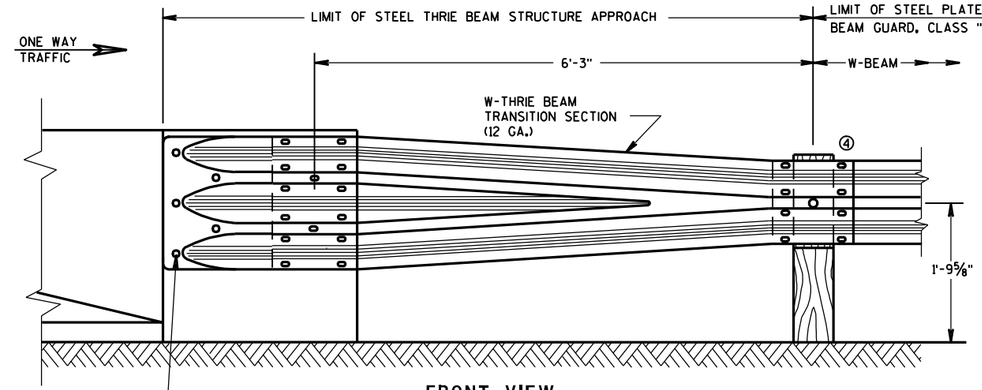
DO NOT USE STEEL POSTS AND NOTCHED PLASTIC BLOCKOUTS IN THE STEEL THRIE BEAM STRUCTURAL APPROACH AND THE TRANSITION SECTION OF STEEL PLATE BEAM GUARD, CLASS "A" INSTALLATIONS.



FRONT VIEW

SECTION B-B

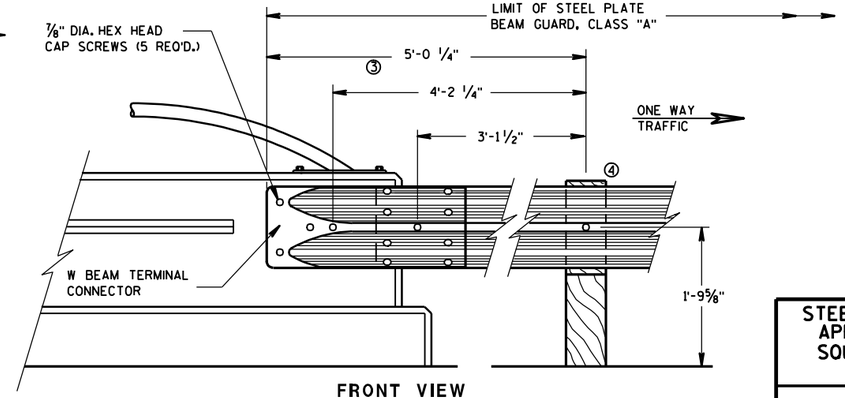
THRIE BEAM CONNECTION TO VERTICAL FACED PARAPETS



FRONT VIEW

W BEAM TRANSITION AND CONNECTION TO BRIDGE PARAPETS WITH SQUARE ENDS

(USE ONLY ON THE TRAFFIC EXIT END OF ONE WAY BRIDGES)



FRONT VIEW

W BEAM CONNECTION TO VERTICAL FACE PARAPET

(USE ONLY ON THE TRAFFIC EXIT END OF ONE WAY BRIDGES)

STEEL THRIE BEAM STRUCTURE APPROACH, CONNECTION TO SQUARE END AND VERTICAL FACED PARAPETS

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
2-12-04
DATE

CHIEF ROADWAY DEVELOPMENT ENGINEER

FHWA

BILL OF MATERIALS

NOTE NO.	QTY.	DESCRIPTION
(1)	4	WOOD BREAKAWAY TERMINAL POST: 5½" X 7½" X 3'-9"
(2)	4	STEEL TUBE: TS 8" X 6" X 0.188", 4'-6" LONG
(3)	4	SOIL PLATE: 2'-0" X 1'-6" X ¼"
(4)	4	WOOD BREAKAWAY CRT POST: 6" X 8" X 6'-0"
(5)	6	WOOD OFFSET BLOCKS: 6' X 8" X 1'-2"
(6)	1	PIPE SLEEVE: 2" X 5 ½" STANDARD PIPE
(7)	1	BEARING PLATE
(8)	1	BCT CABLE ASSEMBLY
(9)	1	CABLE ANCHOR BOX
(10)	1	STRUT & YOKE
(11)	1	STEEL PLATE BEAM, END PANEL 12 GA. 13'-6½" LONG FOR SKT-350, ET-2000 AND ET-2000 PLUS
(12)	3	STEEL PLATE BEAM: 12 GA. 13'-6½"
(13)	1	ET-2000/ET-2000 PLUS GUARDRAIL EXTRUDER OR SKT-350 IMPACT HEAD: AS FURNISHED BY MANUFACTURER
(14)	1	REFLECTIVE SHEETING: 18" X 18"

GENERAL NOTES

(A) USE 3:1 OR FLATTER SLOPE FOR INSTALLATION ON EXISTING HIGHWAYS.

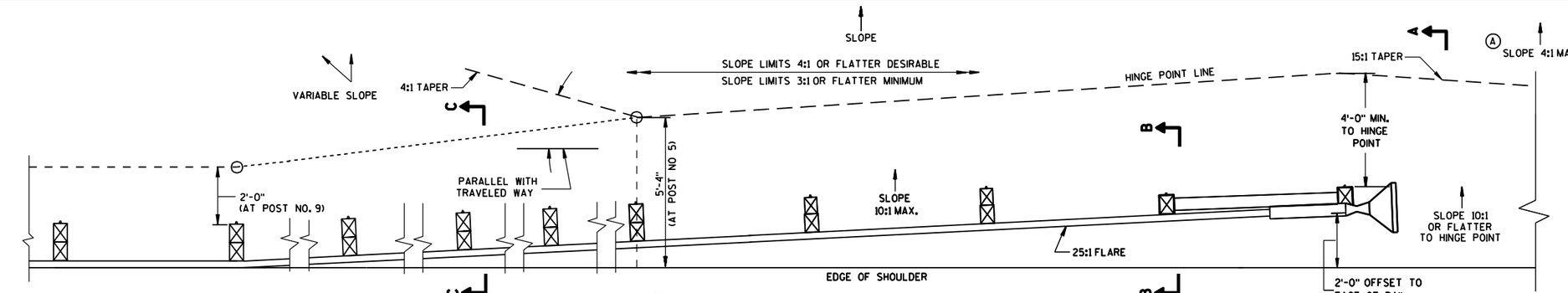
(B) DO NOT ATTACH GUARDRAIL TO POST BLOCKS AT POSTS NO. 3, 5 & 7.

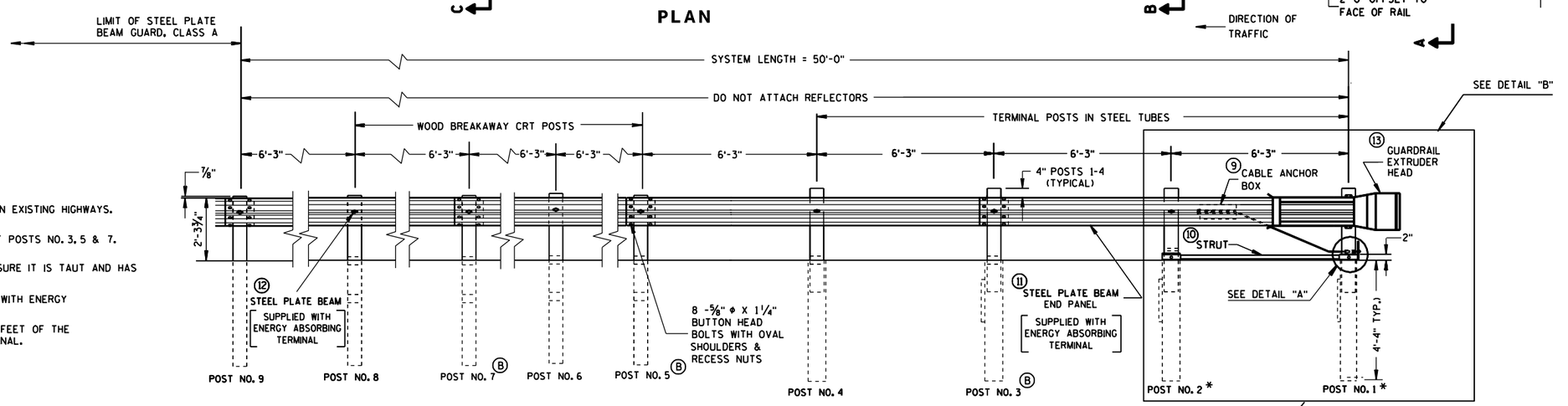
(C) AFTER FINAL ASSEMBLY, RECHECK CABLE TO BE SURE IT IS TAUT AND HAS NOT RELAXED.

STEEL POSTS SHALL NOT BE ALLOWED FOR USE WITH ENERGY ABSORBING TERMINALS.

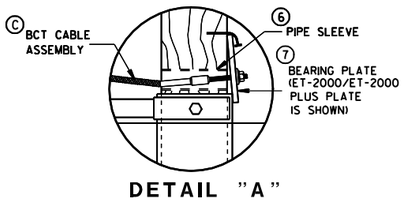
DO NOT INSTALL REFLECTORS ON THE FIRST 50 FEET OF THE APPROACH END OF THE ENERGY ABSORBING TERMINAL.

* DO NOT ATTACH BLOCKOUTS TO POSTS 1 AND 2.

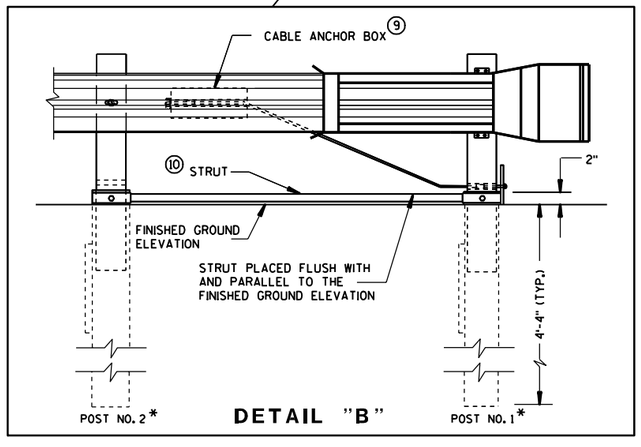




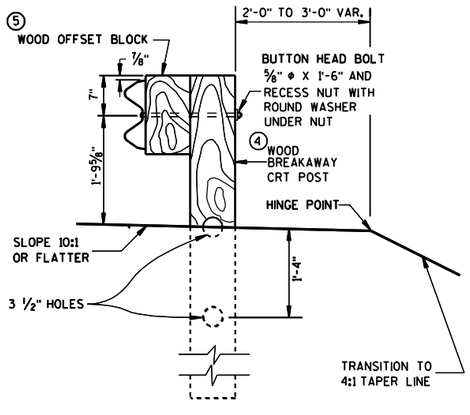
ELEVATION



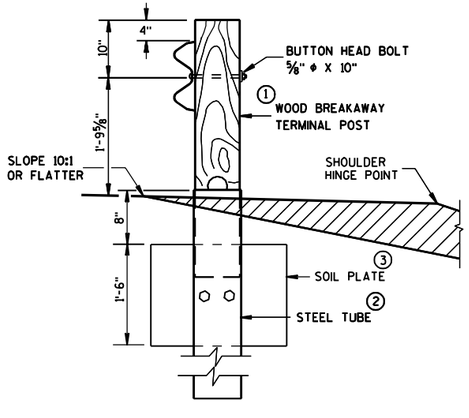
DETAIL "A"



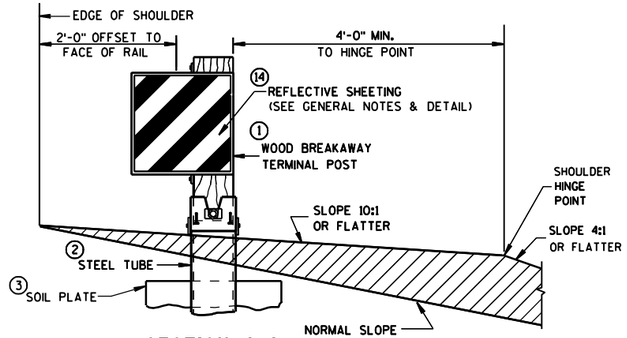
DETAIL "B"



SECTION C-C
TYPICAL AT POST NOS. 4, 6, 8



SECTION B-B
TYPICAL AT POST NO. 2*



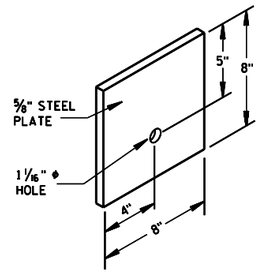
SECTION A-A
TYPICAL AT POST NO. 1*

STEEL PLATE BEAM GUARD ENERGY ABSORBING TERMINAL

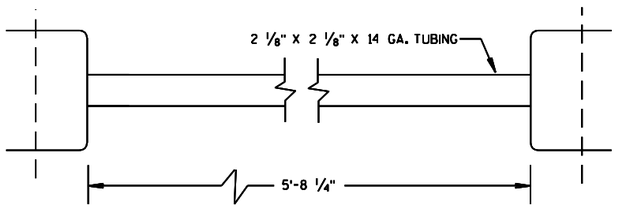
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

6

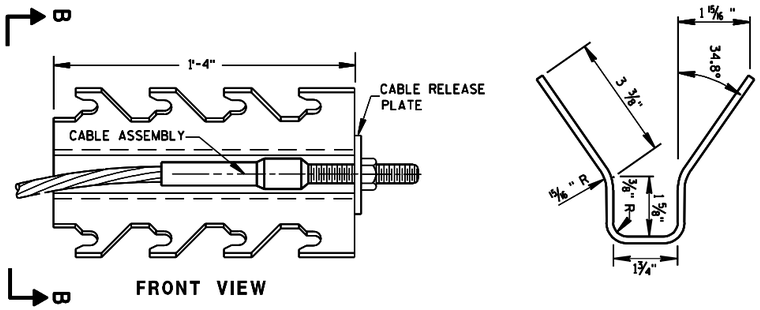
S.D.D. 14 B 24-4a



STEEL BEARING PLATE (SKT-350)



STRUT DETAIL (SKT-350)

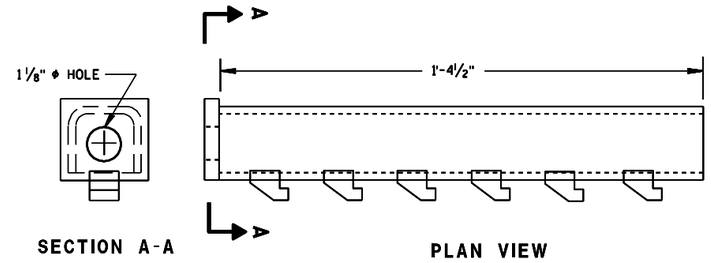


FRONT VIEW

SECTION B-B

CABLE ANCHOR BOX (SKT-350)

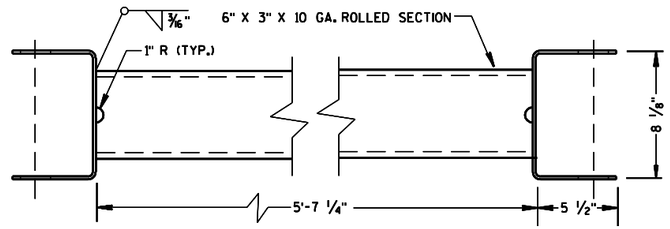
(SKT-350)



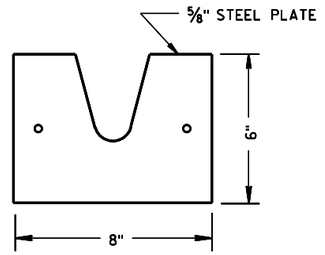
SECTION A-A

PLAN VIEW

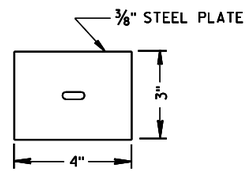
CABLE ANCHOR BOX (ET-2000/ET-2000 PLUS)



STRUT DETAIL (ET-2000/ET-2000 PLUS)

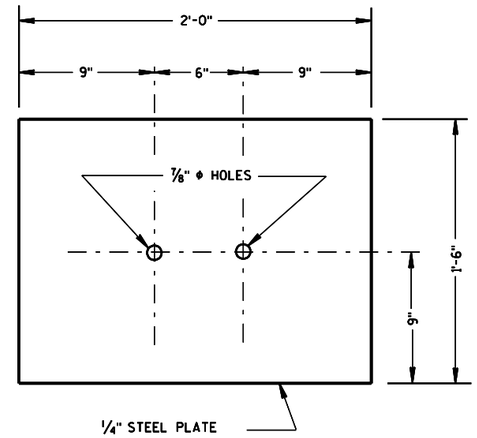


STEEL BEARING PLATE
(ET-2000/ET-2000 PLUS)



BEARING PLATE WASHER
(ET-2000/ET-2000 PLUS)

(ET-2000/ET-2000 PLUS)



SOIL PLATE
(SKT-350, ET-2000/ET-2000 PLUS)

STEEL PLATE BEAM GUARD
ENERGY ABSORBING TERMINAL

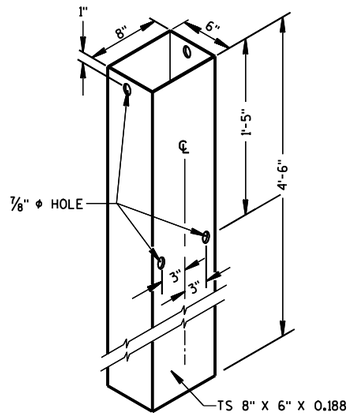
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

6

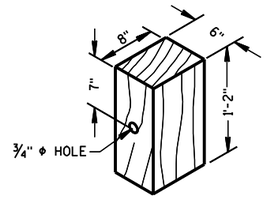
S.D.D. 14 B 24-4b

6

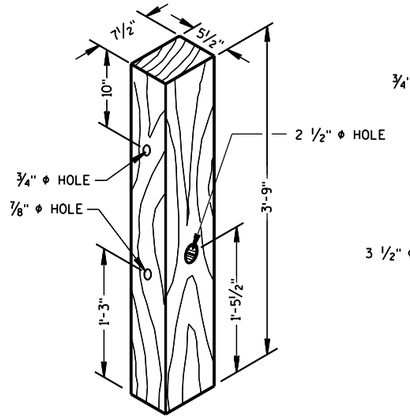
S.D.D. 14 B 24-4b



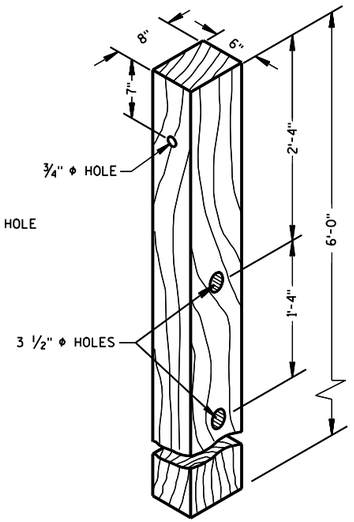
STEEL TUBE
(POSTS NO. 1-4
THE STEEL TUBE SHALL CONFORM
TO REQUIREMENTS OF ASTM A500



WOOD OFFSET BLOCK
REQ'D. AT ALL POSTS EXCEPT POST NO'S 1 & 2

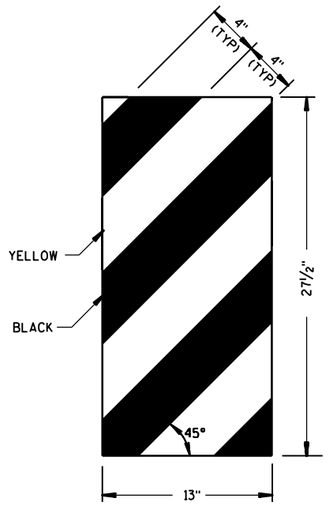


TERMINAL POST
(POSTS NO. 1-4

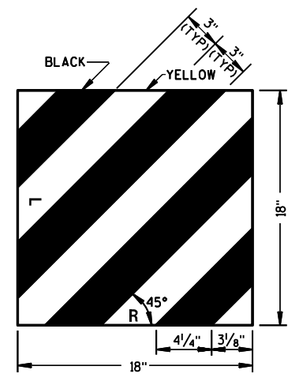


CRT POST
(POSTS NO'S 5-8

WOOD BREAKAWAY POSTS



ET-2000 PLUS ONLY



ET-2000 AND SKT-350

REFLECTIVE SHEETING DETAILS

GENERAL NOTES

DETAILS OF CONSTRUCTION, MATERIALS AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS, APPLICABLE SPECIAL PROVISIONS AND MANUFACTURERS INSTRUCTIONS.

STEEL PLATE BEAM GUARD ENERGY ABSORBING TERMINAL SHALL BE EITHER THE EXTRUDER TERMINAL (ET-2000), OR THE SEQUENTIAL KINKING TERMINAL (SKT-350). THE CONTRACTOR SHALL NOT INTERMIX PROPRIATERY PRODUCT MATERIALS.

STEEL PLATE BEAM GUARD, ENERGY ABSORBING TERMINAL SHALL BE PAID FOR AT THE CONTRACT UNIT PRICE EACH, WHICH SHALL INCLUDE HARDWARE, STEEL PLATE BEAM GUARD, POSTS, REFLECTIVE SHEETING AND INSTALLATION AS SHOWN.

REFLECTIVE SHEETING - SHALL CONFORM TO ASTM SPECIFICATION D4956-94, REFLECTIVE SHEETING TYPE III, BACKING CLASS 4, PERFORMANCE REQUIREMENT TYPE III. THE MESSAGE AND LINES SHALL BE APPLIED TO THE SIGNS BY THE SILK SCREEN STENCIL PROCESS USING A BLACK OR DARK STENCIL PASTE AS A TYPE APPROVED BY THE MANUFACTURER OF THE FACE MATERIAL TO WHICH IT IS TO BE APPLIED. MESSAGE UNITS CUT FROM NONREFLECTIVE SHEETING AND APPLIED TO THE SIGN FACE ARE NOT ACCEPTABLE. AFTER THE APPROACH END OF THE STEEL PLATE BEAM GUARD INSTALLATION IS COMPLETE, CLEAN THE AREA WHERE THE REFLECTIVE SHEETING WILL BE APPLIED IN ACCORDANCE WITH THE MANUFACTURERS RECOMMENDATION. ONCE CLEAN, APPLY REFLECTIVE SHEETING DIRECTLY TO THE STEEL PLATE BEAM GUARD AS SHOWN. THE CONTRACTOR SHALL TURN OVER THE MANUFACTURERS WARRANTY FOR THE REFLECTIVE SHEETING TO THE DEPARTMENT FOR POTENTIAL DEALING WITH THE MANUFACTURER. PAYMENT OF REFLECTIVE SHEETING IS INCIDENTAL TO STEEL PLATE BEAM GUARD, ENERGY ABSORBING TERMINAL.

WHEN ROCK IS ENCOUNTERED DURING EXCAVATION, A 12 INCH DIA. POST HOLE EXTENDING 20 INCHES DEEP INTO THE ROCK MAY BE USED IF APPROVED BY THE ENGINEER. GRANULAR MATERIAL SHALL BE PLACED IN THE BOTTOM OF THE HOLE APPROXIMATELY 2 1/2" INCHES DEEP TO PROVIDE DRAINAGE. THE SOIL TUBES SHALL BE FIELD CUT TO LENGTH, PLACED IN THE HOLE AND BACKFILLED WITH ADEQUATELY COMPACTED MATERIAL EXCAVATED FROM THE HOLE.

STEEL PLATE BEAM GUARD
ENERGY ABSORBING TERMINAL

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
6-25-03
DATE
FHWA

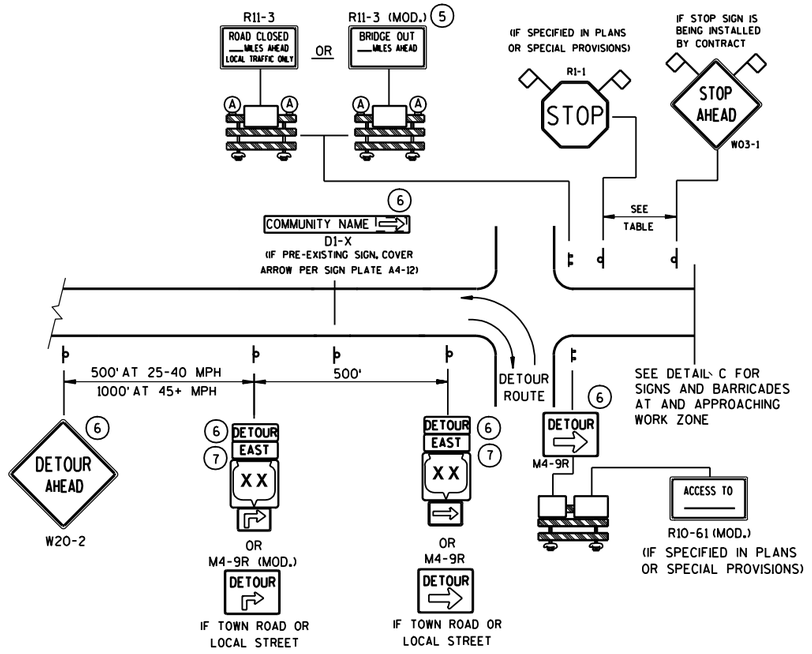
CHIEF ROADWAY DEVELOPMENT ENGINEER

6

S.D.D. 14 B 24-4c

6

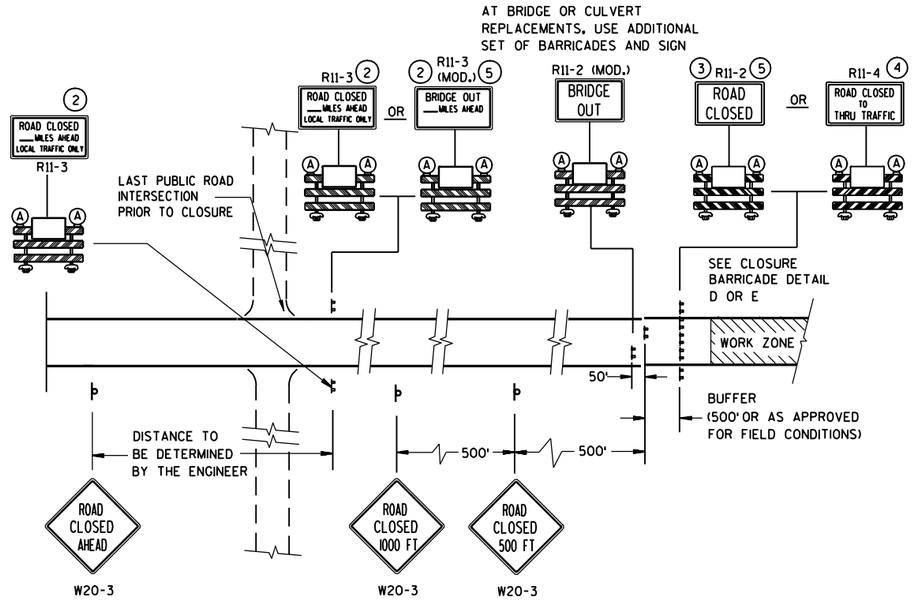
S.D.D. 14 B 24-4c



DETAIL A

MAINLINE CLOSURE WITH POSTED DETOUR

WORK ZONE GREATER THAN ½ MILE FROM DETOUR ROUTE (1000 FEET IF URBAN)

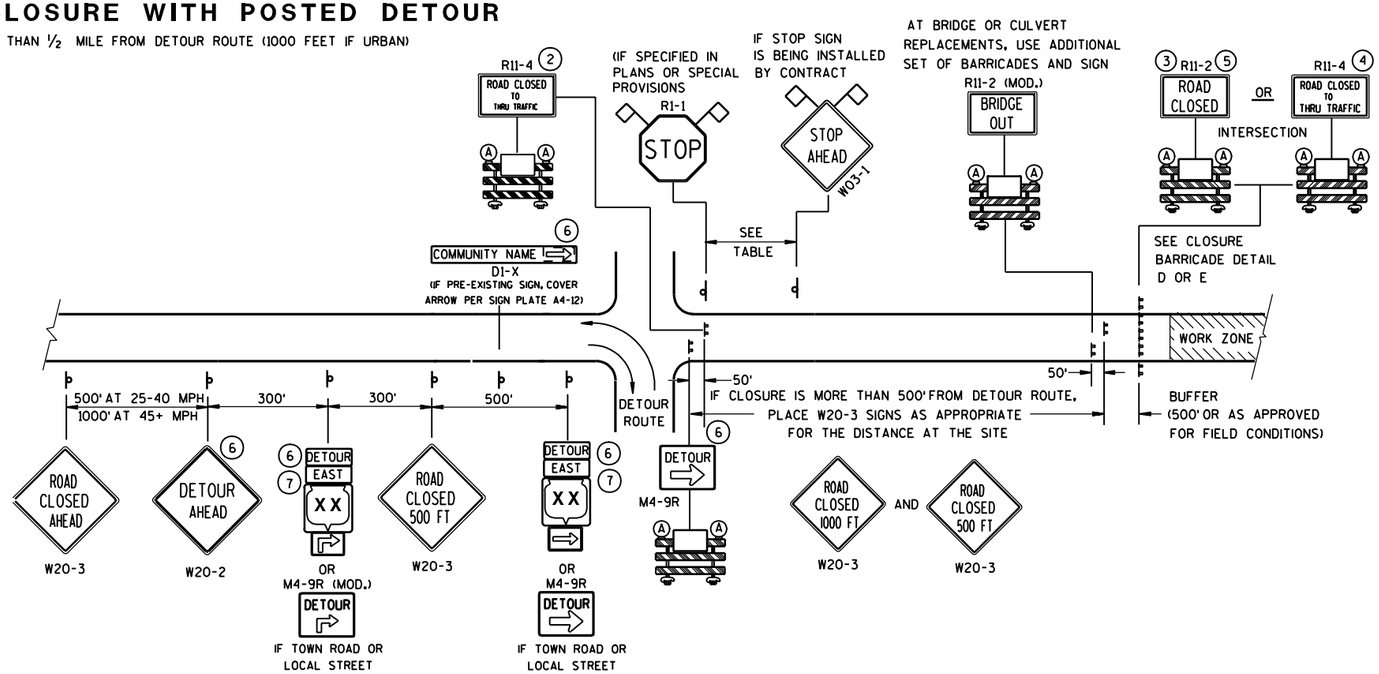


DETAIL C

MAINLINE CLOSURE, NO POSTED DETOUR

SPEED LIMIT (MPH)	"STOP AHEAD" ADVANCE WARNING DISTANCE (FT)
25	200
30	200
35	350
40	350
45	500
50	550
55	750

SEE SDD 15C2-4b
FOR GENERAL NOTES
AND FOOTNOTES ① THROUGH ⑦



DETAIL B

MAINLINE CLOSURE WITH POSTED DETOUR

WORK ZONE LESS THAN ½ MILE FROM DETOUR ROUTE (1000 FEET IF URBAN)

LEGEND

- POST MOUNTED SIGN
- TYPE III BARRICADES
- (A) TYPE "A" LOW INTENSITY FLASHING WARNING LIGHT (FOR NIGHT USE)
- WORK ZONE
- DETOUR / EAST — M4-8 / M3-X
- XX — M1-4; COUNTY XX — M1-5A; XX — M1-6
- M05-1 OR M06-1
- FLAGS, 16" X 16" MIN., (ORANGE)

BARRICADES AND SIGNS FOR MAINLINE CLOSURES

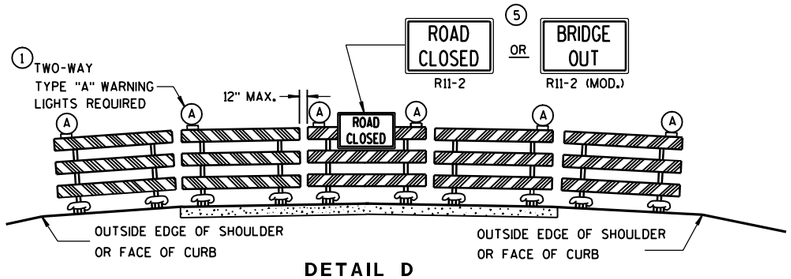
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

6

S.D.D. 15 C 2-4a

6

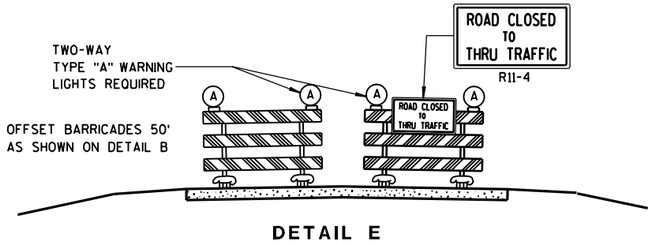
S.D.D. 15 C 2-4a



DETAIL D

ROAD CLOSURE BARRICADE DETAIL

APPROACH VIEW



DETAIL E

LANE CLOSURE BARRICADE DETAIL

APPROACH VIEW

SEE SDD 15C2-4a FOR LEGEND

GENERAL NOTES

THE EXACT NUMBER, LOCATION, AND SPACING OF ALL SIGNS AND BARRICADES SHALL BE ADJUSTED TO FIT FIELD CONDITIONS AS APPROVED BY THE ENGINEER.

ANY SIGNS TEMPORARY OR EXISTING, WHICH CONFLICT WITH TRAFFIC CONTROL "IN USE" SHALL BE REMOVED OR COVERED AS NEEDED AND AS APPROVED BY THE ENGINEER.

THE SPACING BETWEEN TRAFFIC CONTROL SIGNS SHOULD BE ADJUSTED TO NOT CONFLICT WITH AND SHOULD PROVIDE A DESIRABLE MINIMUM OF 200 FEET CLEARANCE TO EXISTING SIGNS THAT WILL REMAIN IN PLACE.

BARRICADES THAT MUST BE MOVED FOR A WORK OPERATION SHALL BE IMMEDIATELY RE-ESTABLISHED UPON COMPLETION OF THE OPERATION OR, FOR CONTINUING OPERATIONS, AT THE END OF EACH WORKING DAY.

SIGNS THAT WILL BE IN PLACE LESS THAN 7 CONTINUOUS DAYS AND NIGHTS MAY BE MOUNTED ON PORTABLE SUPPORTS.

ALL TYPE III BARRICADES SHALL HAVE RAILS REFLECTORIZED ON BOTH FACES. STRIPES SHALL BE PROPERLY SLOPED DOWN TOWARD THE TRAFFIC SIDE OR AS SHOWN IN THE ROAD CLOSURE BARRICADE DETAIL D FOR FULL ROAD CLOSURES.

TYPE "A" LOW-INTENSITY FLASHING WARNING LIGHTS SHALL BE VISIBLE ON BOTH SIDES OF THE BARRICADE.

THE R11-2, R11-3, M4-9, R11-4 AND R10-61 SIGNS PLACED ON BARRICADES SHALL COVER NO MORE THAN THE TOP RAIL. THE SIGNS SHALL NOT COVER ANY PORTION OF THE MIDDLE OR BOTTOM RAILS.

THE REFLECTIVE SHEETING USED ON R11-2, R11-3, R11-4, R10-61 AND R1-1 SIGNS SHALL COMPLY WITH SUBSECTION 637.2.2.2 OF THE STANDARD SPECIFICATIONS.

"WO AND "MO" SIGNS ARE THE SAME AS "W" AND "M" SIGNS EXCEPT THE BACKGROUND IS ORANGE.

ALL SIGNS SHALL BE 48" X 48" UNLESS OTHERWISE NOTED BELOW:
- R11-2 SHALL BE 48" X 30".
- R11-3, R11-4 AND R10-61 SHALL BE 60" X 30".
- M4-9 SHALL BE 30" X 24".
- M3-X AND M4-8 SHALL BE 24" X 12". (30" X 15" IF NEEDED TO MATCH EXISTING SIGNS.)
- M1-4, M1-5A, AND M1-6 SHALL BE 24" X 24". (36" X 36" IF NEEDED TO MATCH EXISTING SIGNS.)
- M05-1 AND M06-1 SHALL BE 21" X 21". (30" X 30" IF NEEDED TO MATCH EXISTING SIGNS.)
- D1-X SHALL BE AS SHOWN ON SPECIFIC PROJECT SIGNING DETAIL SHEETS.
- R1-1 SHALL BE 36" X 36".

(1) TWO WARNING LIGHTS SHALL BE PROVIDED ON THE CENTER BARRICADE AND A MINIMUM OF ONE WARNING LIGHT SHALL BE PROVIDED ON EACH OF THE OTHER BARRICADES WITHIN THE ROADWAY LIMITS. SPACING OF THE WARNING LIGHTS SHALL BE UNIFORM TO THE EDGE OF ROADWAY AS SHOWN (APPROX. 8-FOOT LIGHT SPACING).

(2) THESE SIGNS AND BARRICADES ARE NOT REQUIRED IF ROAD CLOSURE BEGINS AT INTERSECTION.

(3) FOR ROAD CLOSURE WITHOUT LOCAL ACCESS TO PROJECT, SEE ROAD CLOSURE BARRICADE DETAIL D.

(4) FOR ROAD CLOSURE WITH LOCAL ACCESS TO PROJECT, SEE LANE CLOSURE BARRICADE DETAIL E.

(5) FOR BRIDGE OR CULVERT REPLACEMENTS, SUBSTITUTE "BRIDGE OUT" INSTEAD OF "ROAD CLOSED" ON R11-2 AND R11-3 SIGNS.

(6) INSTALL DETOUR AND COMMUNITY GUIDE SIGNS AND ARROWS ONLY IF SPECIFIED IN THE CONTRACT. IF THERE ARE EXISTING ROUTE MARKER ASSEMBLIES THAT WILL REMAIN IN PLACE, ADJUST THE LOCATION OF THE DETOUR ROUTE SIGNS TO CORRESPOND WITH THE EXISTING ASSEMBLIES. MODIFY EXISTING SIGNS WHERE POSSIBLE. SEE SPECIFIC PROJECT DETOUR SIGNING DETAIL SHEETS. IF DETOUR SIGNS ARE BEING INSTALLED BY OTHERS, PLACE THE CONTRACTED TRAFFIC CONTROL SIGNS TO ALLOW FOR PLACEMENT OF ALL WARNING, DETOUR AND GUIDE SIGNS AS SHOWN.

(7) "EAST" CARDINAL DIRECTION MARKERS AND RIGHT TURN ARROWS ARE SHOWN. USE OTHER CARDINAL DIRECTIONS AND ARROWS AS APPROPRIATE.

BARRICADES AND SIGNS FOR MAINLINE CLOSURES

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
9/16/03
DATE
Thomas N. Nottbohm for
CHIEF SIGNS AND MARKING ENGINEER
FHWA

6
S.D.D. 15 C 2-4b

THIS DRAWING PROVIDES GENERAL GUIDANCE ON TYPICAL DETOUR SIGN LAYOUT AND SPACING. SEE PROJECT DETOUR SIGNING SHEETS FOR SPECIFIC DETAILS FOR EACH PROJECT.

GENERAL NOTES

THE EXACT NUMBER, LOCATION AND SPACING OF ALL SIGNS SHALL BE ADJUSTED TO FIT FIELD CONDITIONS AS APPROVED BY THE ENGINEER.

IF THERE ARE EXISTING ROUTE MARKER ASSEMBLIES THAT WILL REMAIN IN PLACE, ADJUST THE LOCATION OF THE DETOUR ROUTE SIGNS TO CORRESPOND WITH THE EXISTING ASSEMBLIES. SEE SPECIFIC PROJECT DETOUR SIGNING DETAIL SHEETS. MODIFY EXISTING SIGNS WHERE POSSIBLE.

THE SPACING BETWEEN TRAFFIC CONTROL AND DETOUR SIGNS SHOULD BE ADJUSTED TO NOT CONFLICT WITH AND TO PROVIDE A DESIRABLE MINIMUM OF 200 FEET CLEARANCE TO EXISTING SIGNS THAT WILL REMAIN IN PLACE.

ANY SIGNS TEMPORARY OR EXISTING, WHICH CONFLICT WITH TRAFFIC CONTROL "IN USE", SHALL BE REMOVED OR COVERED AS NEEDED AND AS APPROVED BY THE ENGINEER.

SIGNS THAT WILL BE IN PLACE LESS THAN 7 CONTINUOUS DAYS AND NIGHTS MAY BE MOUNTED ON PORTABLE SUPPORTS.

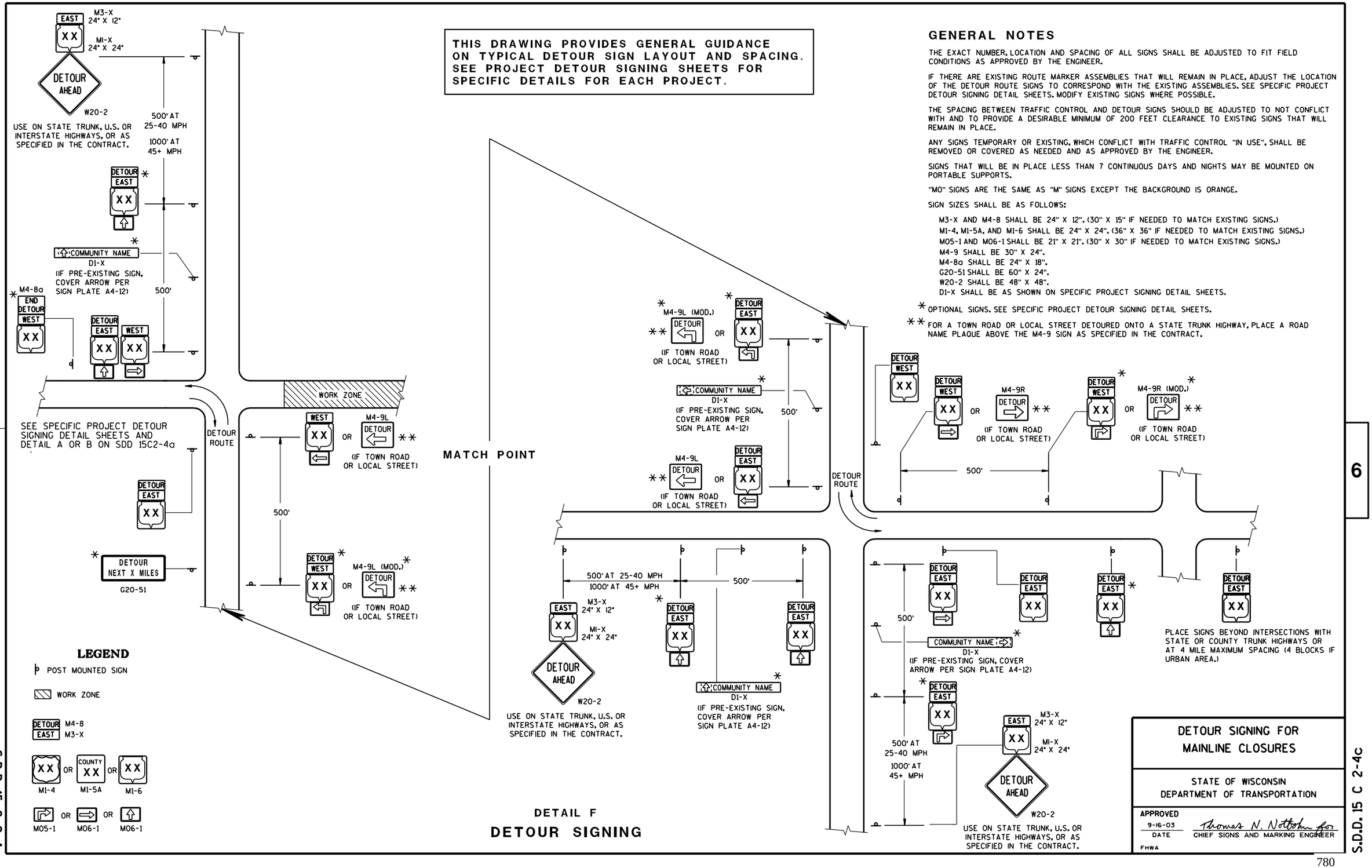
"MO" SIGNS ARE THE SAME AS "M" SIGNS EXCEPT THE BACKGROUND IS ORANGE.

SIGN SIZES SHALL BE AS FOLLOWS:

M3-X AND M4-8 SHALL BE 24" X 12". (30" X 15" IF NEEDED TO MATCH EXISTING SIGNS.)
M1-4, M1-5A, AND M1-6 SHALL BE 24" X 24". (36" X 36" IF NEEDED TO MATCH EXISTING SIGNS.)
M05-1 AND M06-1 SHALL BE 21" X 21". (30" X 30" IF NEEDED TO MATCH EXISTING SIGNS.)
M4-9 SHALL BE 30" X 24".
M4-8a SHALL BE 24" X 18".
G20-51 SHALL BE 60" X 24".
W20-2 SHALL BE 48" X 48".
D1-X SHALL BE AS SHOWN ON SPECIFIC PROJECT SIGNING DETAIL SHEETS.

* OPTIONAL SIGNS. SEE SPECIFIC PROJECT DETOUR SIGNING DETAIL SHEETS.

** FOR A TOWN ROAD OR LOCAL STREET DETOURED ONTO A STATE TRUNK HIGHWAY, PLACE A ROAD NAME PLAQUE ABOVE THE M4-9 SIGN AS SPECIFIED IN THE CONTRACT.



LEGEND

- POST MOUNTED SIGN
- WORK ZONE
- DETOUR EAST M4-8 / M3-X
- XX OR COUNTY XX OR XX — M1-4, M1-5A, M1-6
- M05-1, M06-1, M06-1

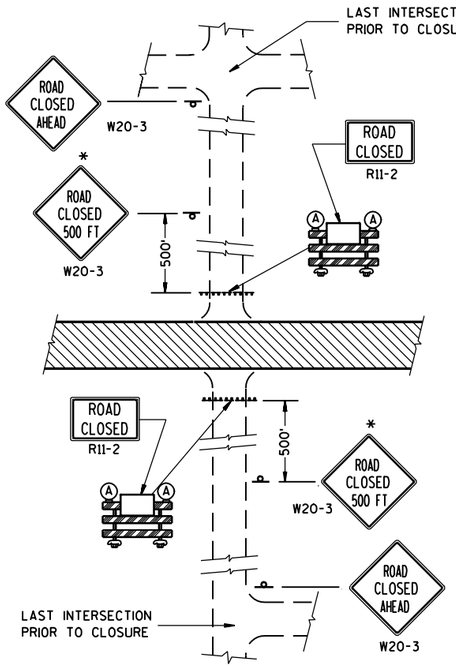
DETAIL F
DETOUR SIGNING

DETOUR SIGNING FOR MAINLINE CLOSURES

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

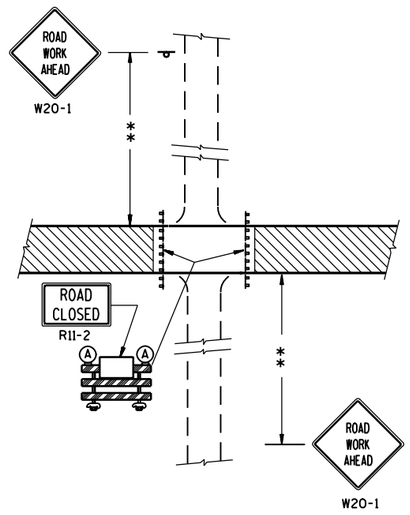
APPROVED
9-16-03 DATE
Thomas N. Notbohm for
CHIEF SIGNS AND MARKING ENGINEER
FHWA

S.D.D. 15 C 2-4c



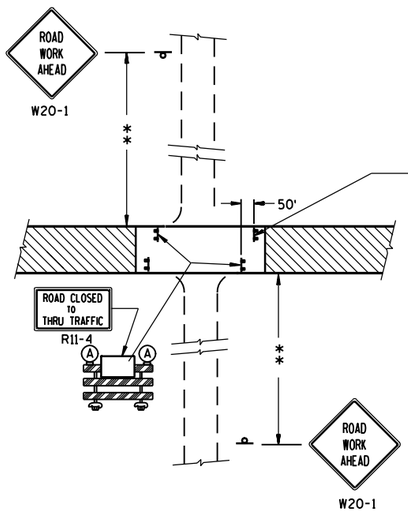
DETAIL 1

(NO ACCESS TO PROJECT)



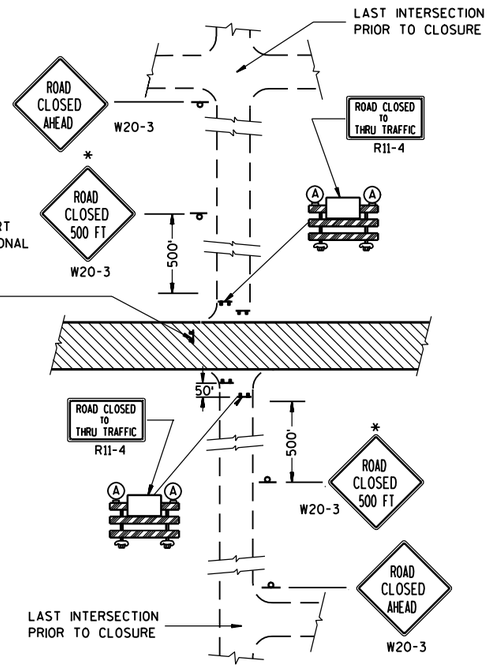
DETAIL 2

(PUBLIC CROSS-TRAFFIC MAINTAINED.
NO ACCESS TO PROJECT).



DETAIL 3

(PUBLIC CROSS-TRAFFIC MAINTAINED. CONTRACTOR,
LOCAL BUSINESS AND RESIDENT ACCESS).



DETAIL 4

(CONTRACTOR, LOCAL BUSINESS AND
RESIDENT ACCESS TO PROJECT)

GENERAL NOTES

THE EXACT NUMBER, LOCATION, AND SPACING OF ALL SIGNS AND BARRICADES SHALL BE ADJUSTED TO FIT FIELD CONDITIONS AS APPROVED BY THE ENGINEER.

ANY SIGNS TEMPORARY OR EXISTING, WHICH CONFLICT WITH TRAFFIC CONTROL "IN USE" SHALL BE REMOVED OR COVERED AS NEEDED AND AS APPROVED BY THE ENGINEER.

THE SPACING BETWEEN TRAFFIC CONTROL SIGNS SHOULD BE ADJUSTED TO NOT CONFLICT WITH AND SHOULD PROVIDE A DESIRABLE MINIMUM OF 200 FEET CLEARANCE TO EXISTING SIGNS THAT WILL REMAIN IN PLACE.

IF A "STOP" SIGN MUST BE REMOVED FOR A WORK OPERATION, A TEMPORARY "STOP" SIGN SHALL BE PLACED PRIOR TO THE SIGN REMOVAL, OR A FLAGGER SHALL BE PROVIDED UNTIL THE SIGN IS RE-ESTABLISHED.

BARRICADES THAT MUST BE MOVED FOR A WORK OPERATION SHALL BE IMMEDIATELY RE-ESTABLISHED UPON COMPLETION OF THE OPERATION OR, FOR CONTINUING OPERATIONS, AT THE END OF EACH WORKING DAY.

SIGNS THAT WILL BE IN PLACE LESS THAN 7 CONTINUOUS DAYS AND NIGHTS MAY BE MOUNTED ON PORTABLE SUPPORTS.

ALL TYPE III BARRICADES SHALL HAVE RAILS REFLECTORIZED ON BOTH FACES. STRIPES SHALL BE PROPERLY SLOPED DOWN TOWARD THE TRAFFIC SIDE OR AS SHOWN IN THE ROAD CLOSURE BARRICADE DETAIL D FOR FULL ROAD CLOSURES.

TYPE "A" LOW-INTENSITY FLASHING WARNING LIGHTS SHALL BE VISIBLE ON BOTH SIDES OF THE BARRICADE.

THE R11-2, R11-3 AND R11-4 SIGNS PLACED ON BARRICADES SHALL COVER NO MORE THAN THE TOP RAIL. THE SIGNS SHALL NOT COVER ANY PORTION OF THE MIDDLE OR BOTTOM RAILS.

THE REFLECTIVE SHEETING USED ON R11-2, R11-3 AND R11-4 SIGNS SHALL COMPLY WITH SUBSECTION 637.2.2.2 OF THE STANDARD SPECIFICATIONS.

ALL SIGNS SHALL BE 48" X 48" UNLESS OTHERWISE NOTED BELOW:
R11-2 SHALL BE 48" X 30".
R11-4 AND R11-3 SHALL BE 60" X 30".

*OMIT THE "ROAD CLOSED 500 FT." SIGN IF THE LAST INTERSECTION IS 500 FT. OR LESS FROM THE WORK ZONE.

**500' MAX. OR AT LAST INTERSECTION WHICHEVER IS CLOSER.

LEGEND

- POST MOUNTED WARNING SIGN
- TYPE III BARRICADES
- (A) TYPE "A" LOW INTENSITY FLASHING WARNING LIGHT (FOR NIGHT USE)
- WORK AREA

BARRICADES AND SIGNS FOR SIDEROAD CLOSURES

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
9-16-03
DATE

Thomas N. Nottbohm for
CHIEF SIGNS AND MARKING ENGINEER

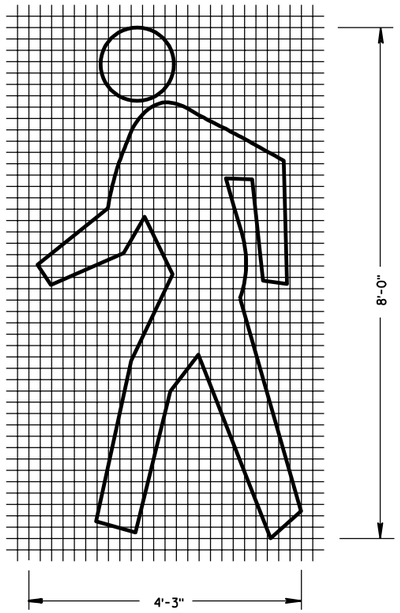
FHWA

6

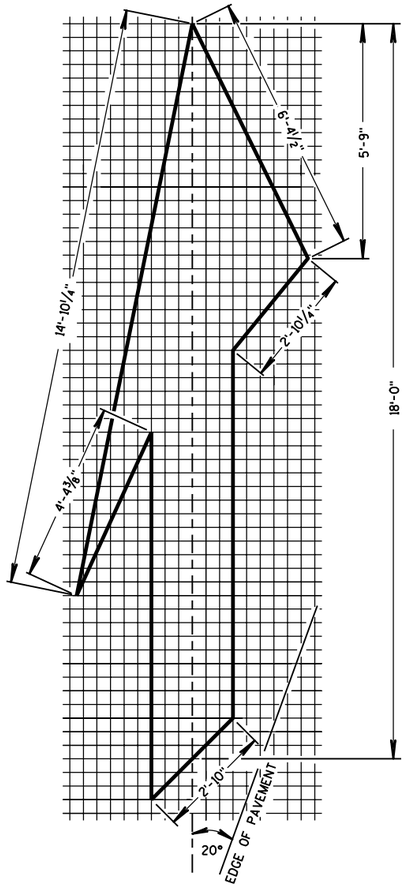
S.D.D. 15 C 3-1

6

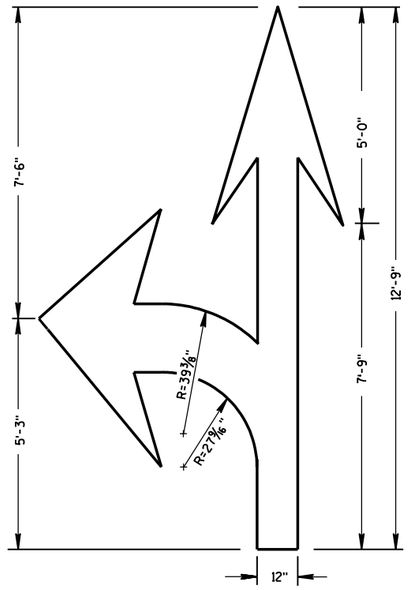
S.D.D. 15 C 3-1



PEDESTRIAN SYMBOL



TYPE 5 LANE DROP ARROW



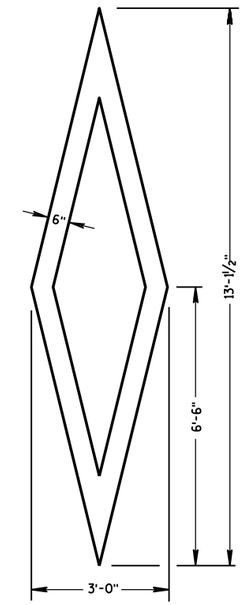
TYPE 3

GENERAL NOTES

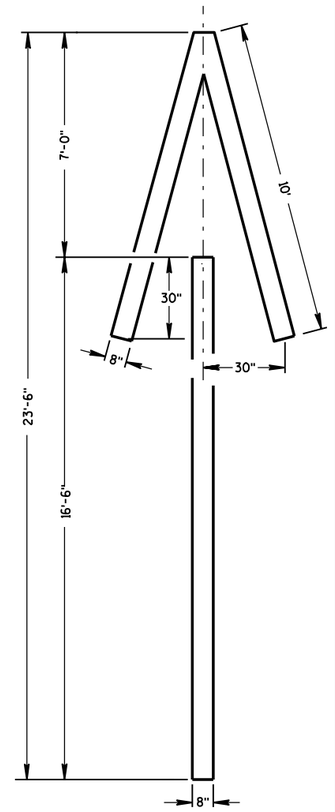
DETAILS OF INSTALLATION, MATERIALS AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS AND APPLICABLE SPECIAL PROVISIONS.

ALL LETTERS AND SYMBOLS SHALL BE IN CONFORMANCE WITH REQUIREMENTS INCLUDED IN "STANDARD ALPHABETS FOR HIGHWAY SIGNS AND PAVEMENT MARKING" BY THE FEDERAL HIGHWAY ADMINISTRATION. ALL LETTERS, ARROWS AND SYMBOLS SHALL BE WHITE AND REFLECTORIZED.

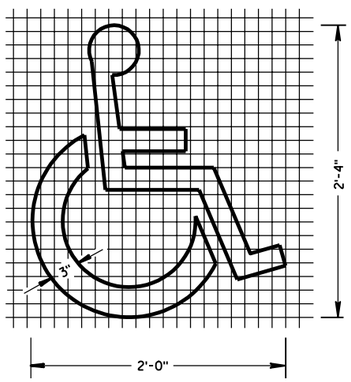
A DETAILED DRAWING OF THE HANDICAPPED PARKING SYMBOL IS ILLUSTRATED IN THE "STANDARD HIGHWAY SIGNS MANUAL" BY THE FEDERAL HIGHWAY ADMINISTRATION.

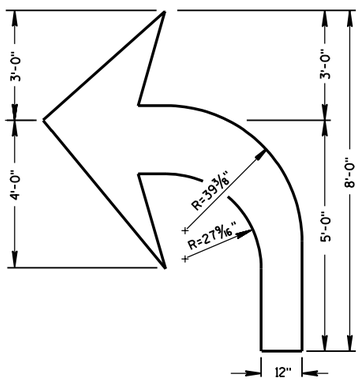


PREFERENTIAL LANE SYMBOL

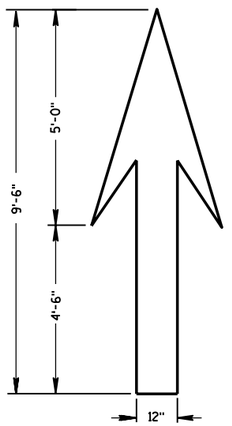


TYPE 4





TYPE 2



TYPE 1

PAVEMENT MARKING SYMBOLS

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
2/22/05
DATE

Thomas N. Notbohm
STATE TRAFFIC ENGINEER OF DESIGN

FHWA

6

S.D.D. 15 C 7-80

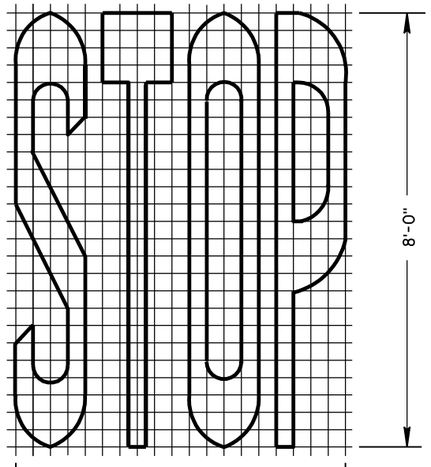
6

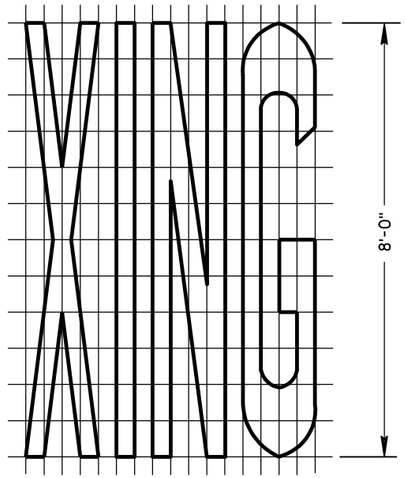
S.D.D. 15 C 7-80

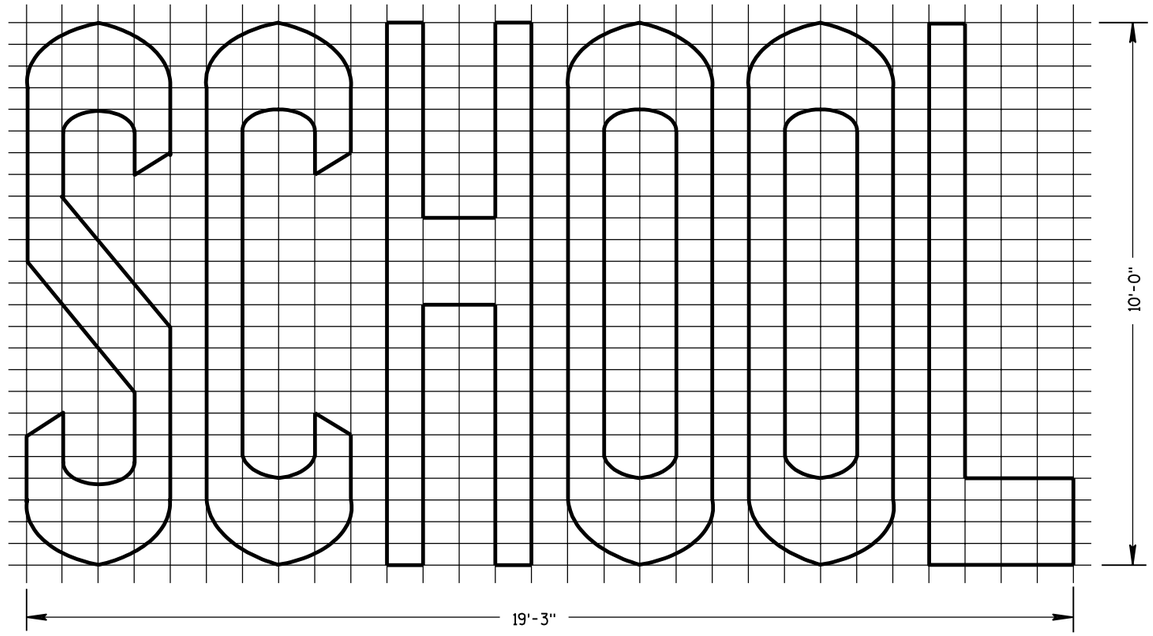
GENERAL NOTES

DETAILS OF INSTALLATION, MATERIALS AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS AND APPLICABLE SPECIAL PROVISIONS.

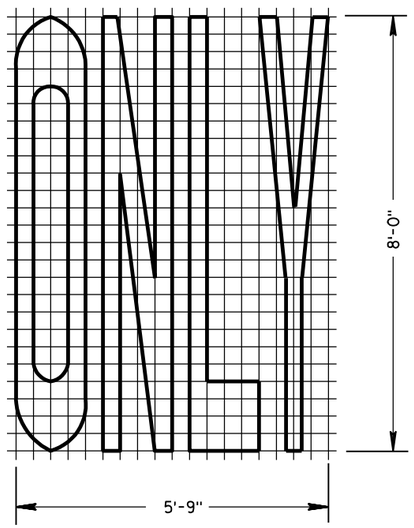
ALL LETTERS, ARROWS AND SYMBOLS SHALL BE IN CONFORMANCE WITH REQUIREMENTS INCLUDED IN "STANDARD ALPHABETS FOR HIGHWAY SIGNS AND PAVEMENT MARKING" BY THE FEDERAL HIGHWAY ADMINISTRATION. ALL LETTERS, ARROWS AND SYMBOLS SHALL BE WHITE AND REFLECTORIZED.

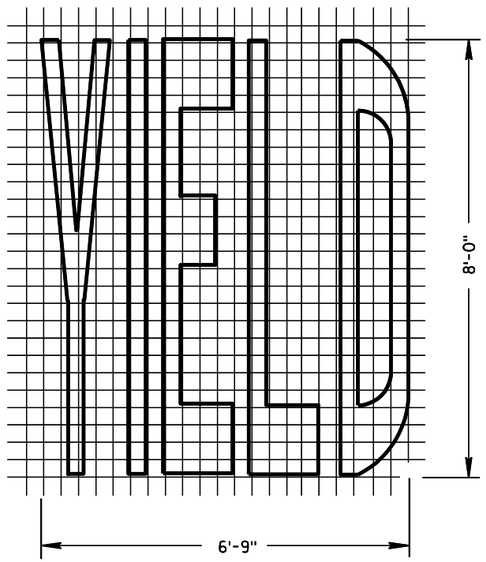


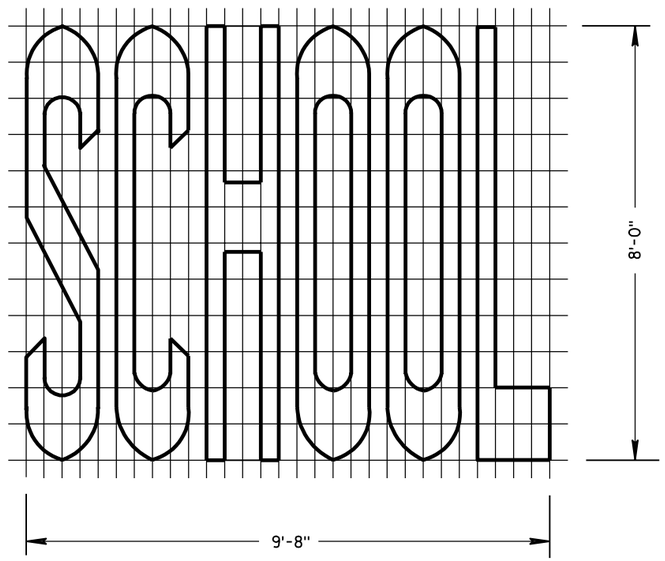




TWO-LANE







SINGLE-LANE

PAVEMENT MARKING WORDS

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

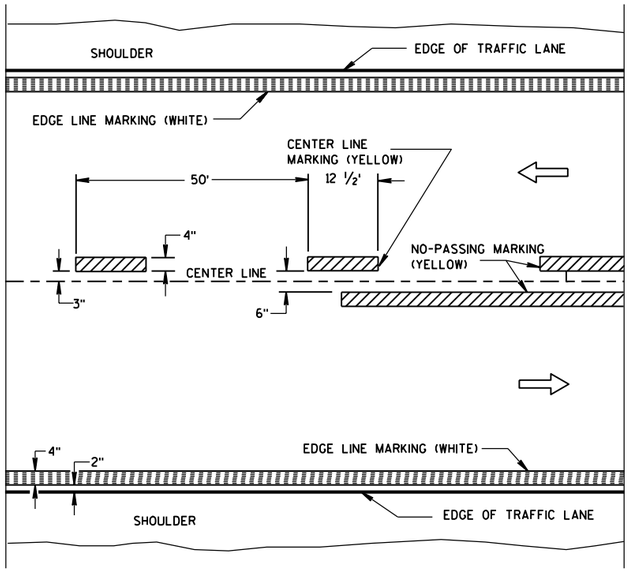
APPROVED
2-22-05
DATE

Thomas N. Notbohm
STATE TRAFFIC ENGINEER OF DESIGN

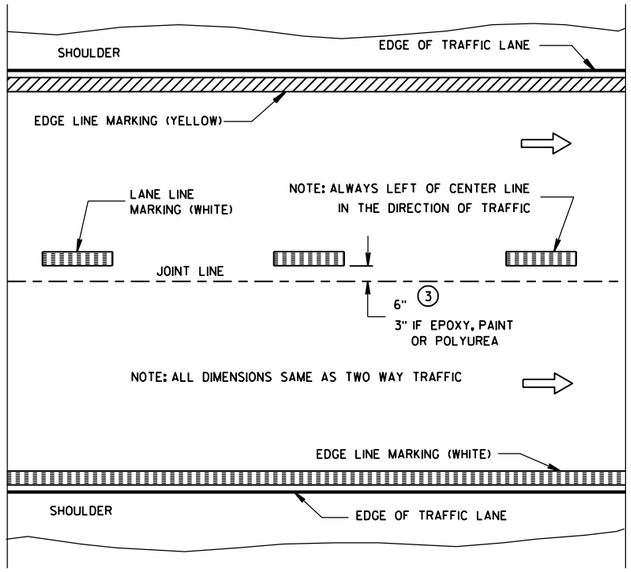
FHWA

S.D.D. 15 C 7-8b

S.D.D. 15 C 7-8b



TWO WAY TRAFFIC



ONE WAY TRAFFIC

PERMANENT PAVEMENT MARKING

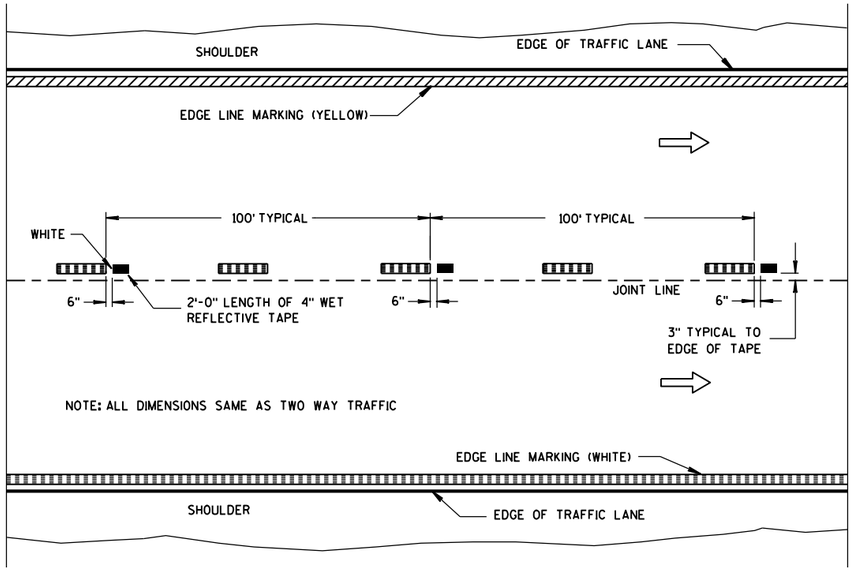
GENERAL NOTES

DETAILS OF CONSTRUCTION NOT SHOWN ON THIS DRAWING SHALL CONFORM TO STANDARD SPECIFICATIONS AND SPECIAL PROVISIONS.

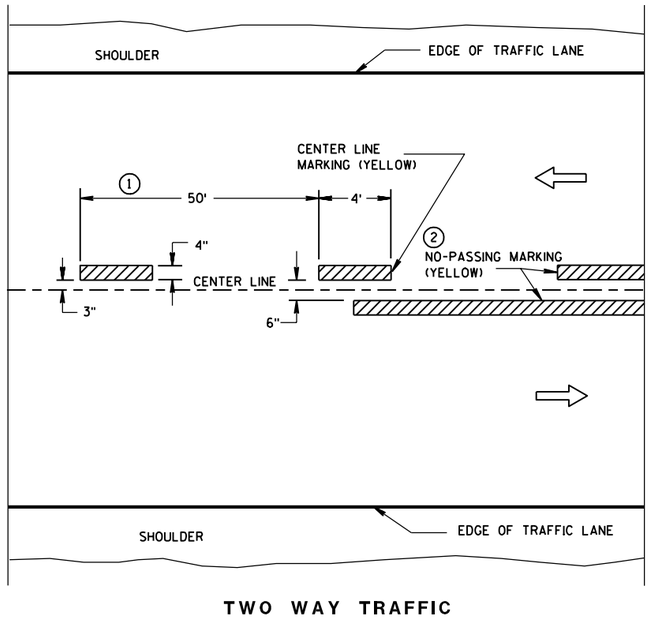
1. HALF CYCLE LENGTHS (25'±) WITH 2' MINIMUM STRIPE LENGTHS SHALL BE PROVIDED ON ROADWAYS (INCLUDING TEMPORARY TRAVELED WAYS) WITH REVERSE CURVATURE, CURVATURE OF OVER 5 DEGREES OR WHEN DIRECTED BY THE ENGINEER TO MARK UNUSUAL ALIGNMENT OF THE TRAVELED WAY.
2. NO PASSING ZONE TEMPORARY PAVEMENT MARKING IS REQUIRED TO BE PLACED. WHERE APPROPRIATE, ALONG WITH CENTERLINE TEMPORARY PAVEMENT MARKING WHEN A SAME DAY PERMANENT PAVEMENT MARKING ITEM IS INCLUDED IN THE CONTRACT.
3. DIMENSION FROM THE WHITE REFLECTIVE EDGE FOR WET REFLECTIVE TAPE PLACEMENT ONLY.

NOTE

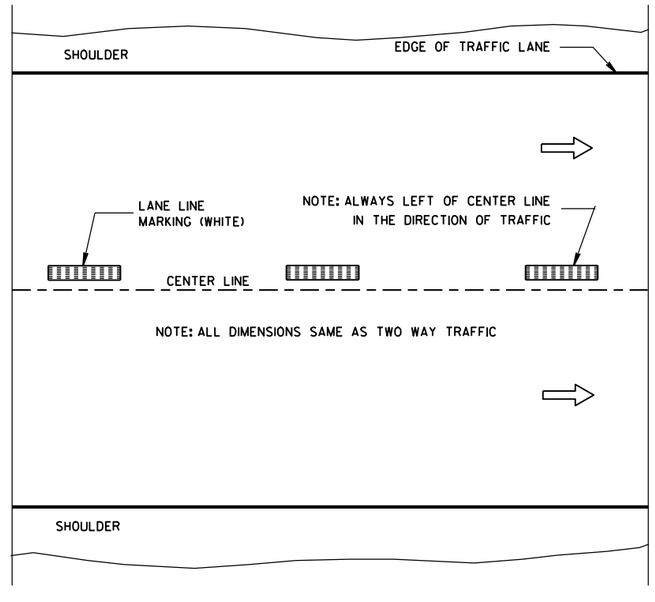
ARROW SYMBOL (⇨) SHOWS DIRECTION OF TRAVEL



WET REFLECTIVE TAPE SUPPLEMENT TO
SPRAYED OR NON WET REFLECTIVE TAPE LANE LINE



TWO WAY TRAFFIC



ONE WAY TRAFFIC

TEMPORARY (INTERMEDIATE) PAVEMENT MARKING

(SHOWS CYCLE FOR TEMPORARY CENTER LINE OR TEMPORARY LANE LINE MARKING)

PAVEMENT MARKING (MAINLINE)	
STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION	
APPROVED	
1-16-07	/S/ Thomas N. Notbohm
DATE	STATE TRAFFIC ENGINEER OF DESIGN
FHWA	

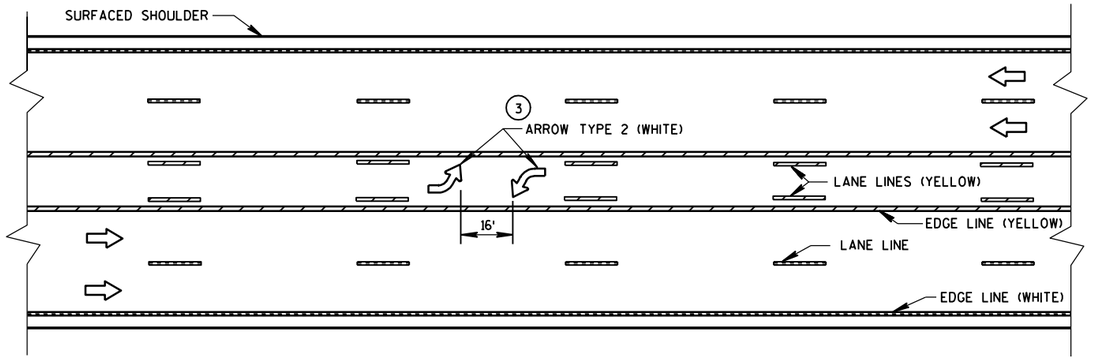
6

S.D.D. 15 C 8-10a

6

S.D.D. 15 C 8-10a

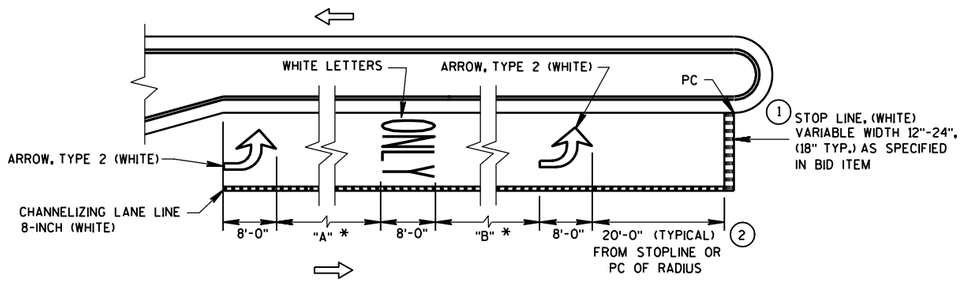
NOTE:
ARROW SYMBOL (⇨)
SHOWS DIRECTION OF TRAVEL



TWO WAY LEFT TURN LANE

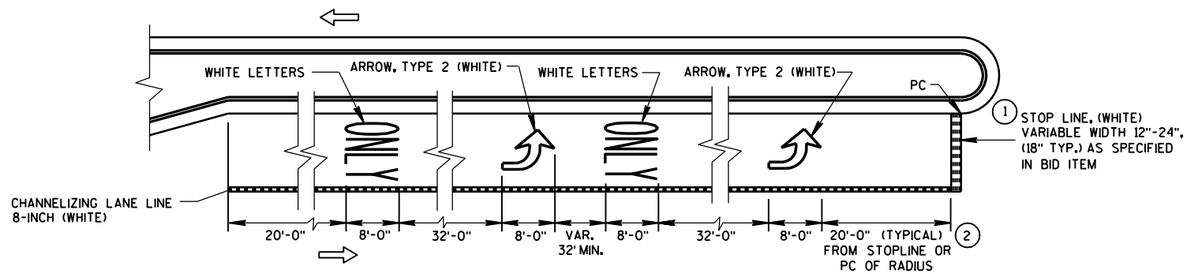
NOTES:

1. STOP BAR IS REQUIRED ONLY WHEN SPECIFIED IN THE CONTRACT.
2. DISTANCE MAY BE ADJUSTED TO ACCOMODATE SHORT LEFT TURN LANES. AS APPROVED BY THE ENGINEER.
3. A SET OF ARROWS IS REQUIRED EVERY 400'OR NEAR INTERSECTIONS OR DRIVEWAYS WITH TURNING TRAFFIC.

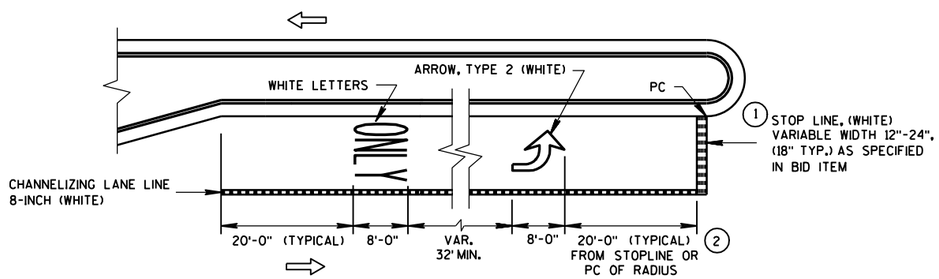


*VARIABLE, 32' MIN.
"A" = "B" (TYPICAL)

LEFT TURN LANE
(LENGTH 108' TO 167')



LEFT TURN LANE
(LENGTH OVER 167')



LEFT TURN LANE
(LENGTH UNDER 108')

PAVEMENT MARKING
(LEFT TURN LANE)

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

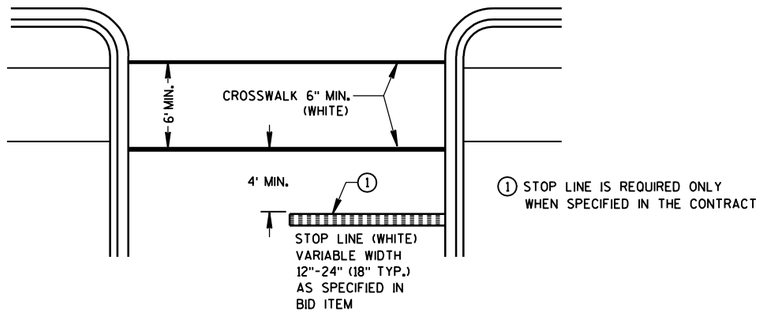
APPROVED
8/1/05 — DATE
/S/ Thomas N. Notbohm — STATE TRAFFIC ENGINEER OF DESIGN
FHWA

6

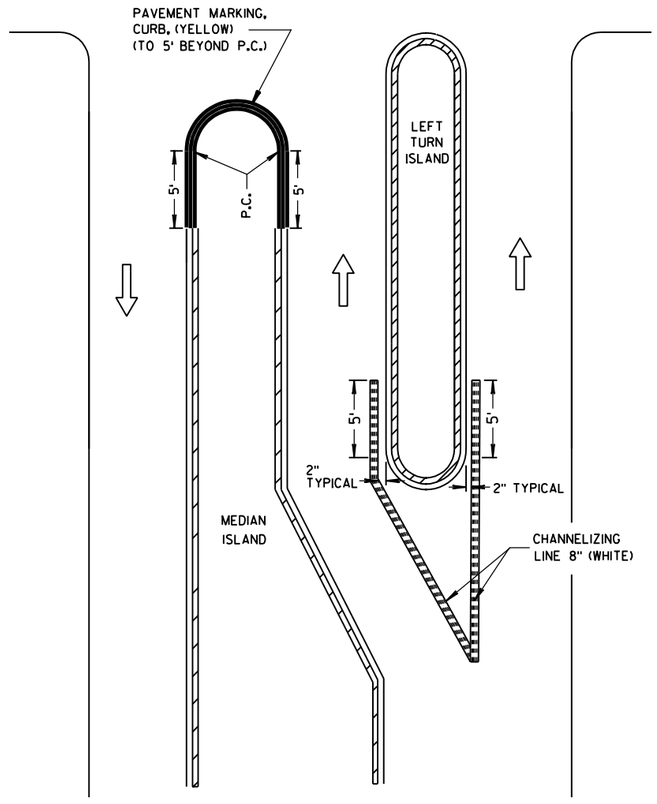
S.D.D. 15 C 8-10d

6

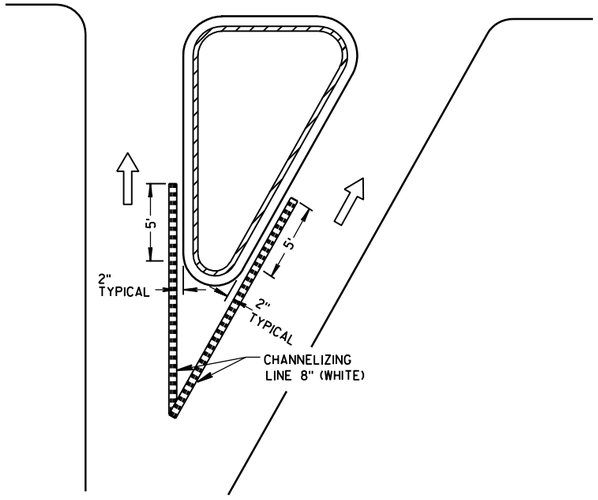
S.D.D. 15 C 8-10d



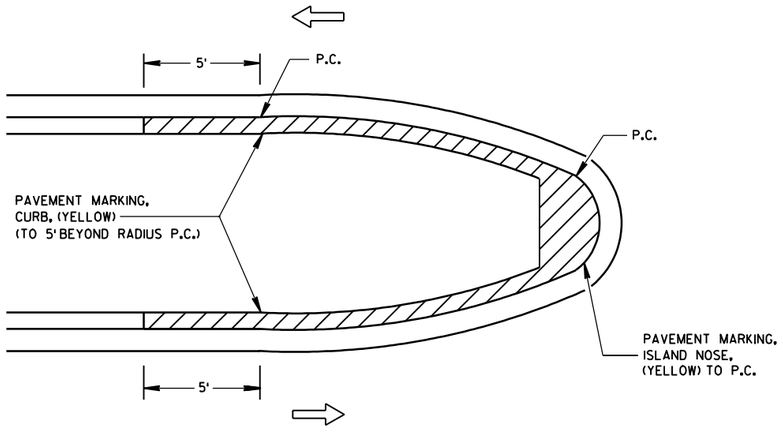
STOP LINE AND CROSSWALK



LEFT TURN & MEDIAN ISLAND



RIGHT TURN ISLAND



MEDIAN ISLAND WITH SLOPED NOSE

NOTE:
ARROW SYMBOL (⇨)
SHOWS DIRECTION OF TRAVEL

PAVEMENT MARKING (ISLANDS, STOP LINE & CROSS WALK)

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

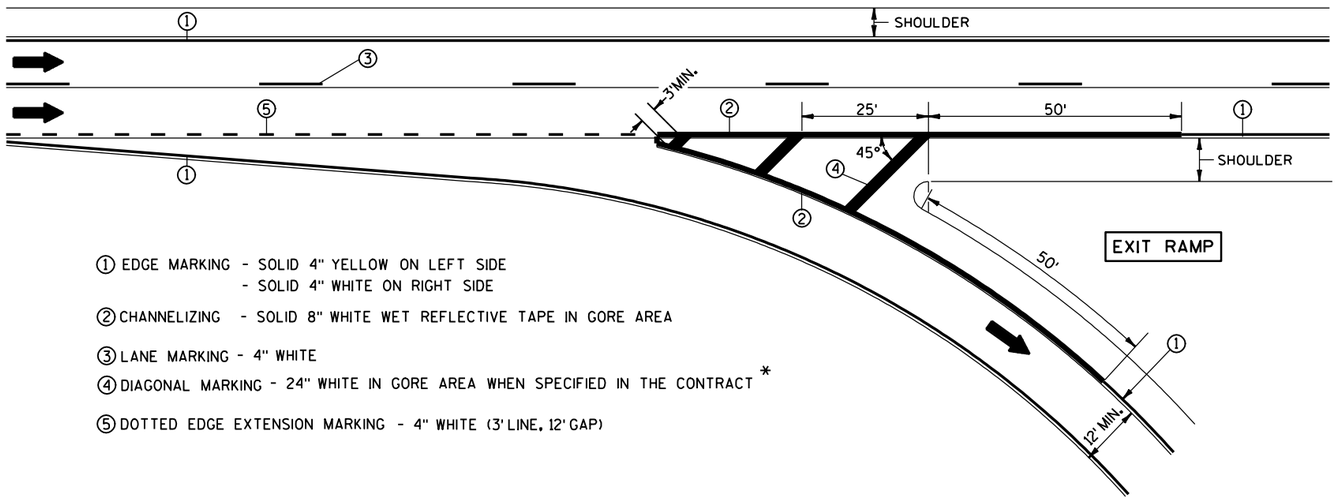
APPROVED
1-16-03 (DATE)
Deborah K. Kozel for
CHIEF SIGNS AND MARKING ENGINEER
FHWA

6

S.D.D. 15 C 8-10e

6

S.D.D. 15 C 8-10e



① EDGE MARKING - SOLID 4" YELLOW ON LEFT SIDE
- SOLID 4" WHITE ON RIGHT SIDE

② CHANNELIZING - SOLID 8" WHITE WET REFLECTIVE TAPE IN GORE AREA

③ LANE MARKING - 4" WHITE

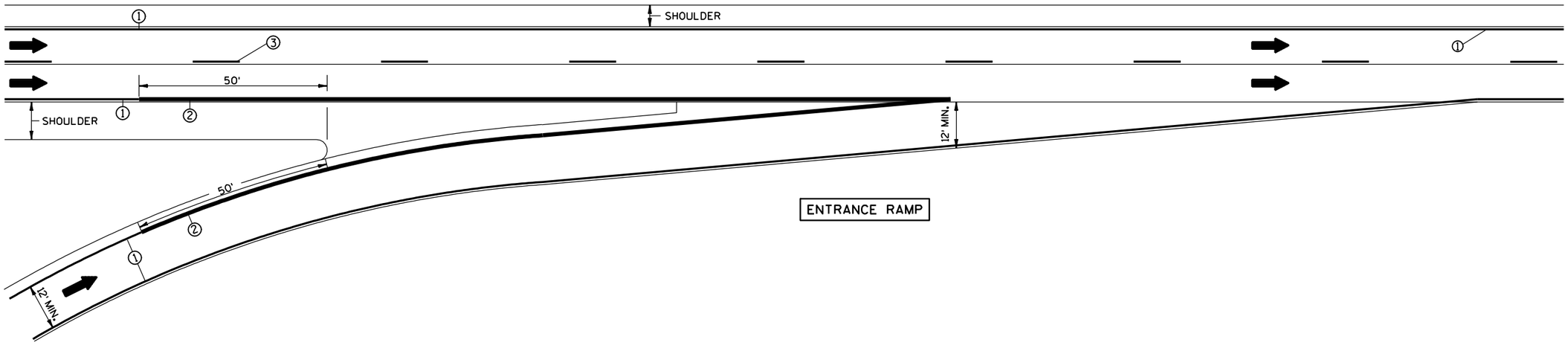
④ DIAGONAL MARKING - 24" WHITE IN GORE AREA WHEN SPECIFIED IN THE CONTRACT *

⑤ DOTTED EDGE EXTENSION MARKING - 4" WHITE (3' LINE, 12' GAP)

NOTES:

1. ARROWS SHOWN ON THIS MARKING PLAN DESIGNATE TRAFFIC FLOW, AND SHALL NOT BE TAKEN AS PROPOSED PAVEMENT MARKINGS.

*REFER TO DESIGN NOTES.



6

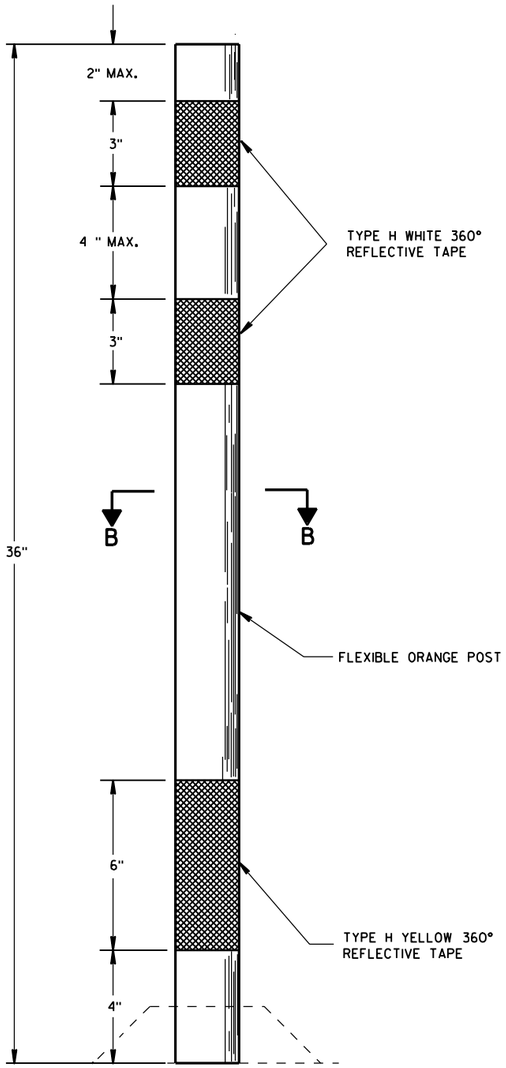
6

S.D.D. 15 C 8-10f

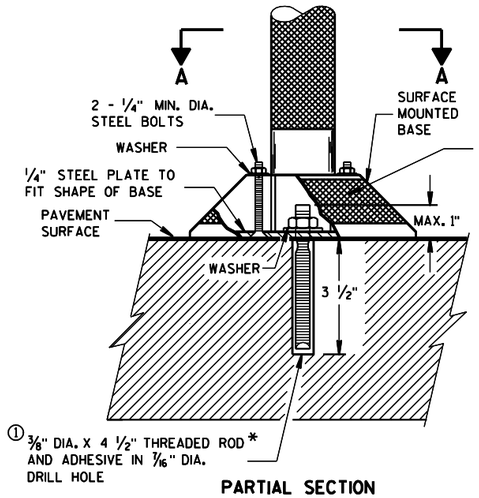
S.D.D. 15 C 8-10f

PAVEMENT MARKING
(RAMPS AND GORES)

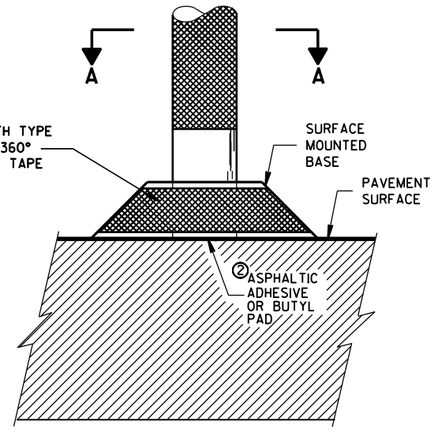
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION



FLEXIBLE TUBULAR MARKER POST



PARTIAL SECTION TO SHOW BOLTS



POST BASES ON NEW OR EXISTING PAVEMENT

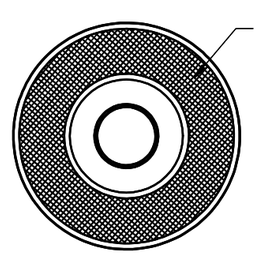
GENERAL NOTES

DETAILS OF CONSTRUCTION NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS AND APPLICABLE SPECIAL PROVISIONS.

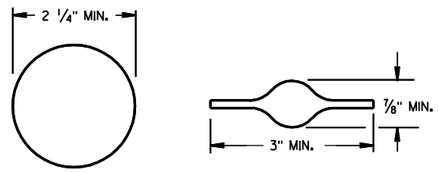
SURFACE MOUNTED BASES SHALL BE FURNISHED IN ACCORDANCE WITH MANUFACTURERS RECOMMENDATIONS TO BE COMPATIBLE WITH FLEXIBLE TUBULAR MARKER POSTS TO A SIZE AND SHAPE THAT WILL PROVIDE A STABLE POST FOUNDATION WHEN SECURED TO THE PAVEMENT.

① THREADED ROD SHALL BE MACHINED DOWN TO 0.280 INCH DIA. 1 1/4 INCHES FROM THE TOP.

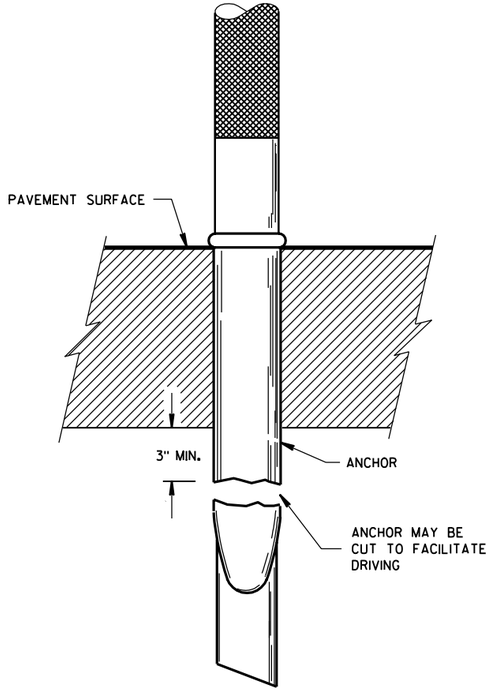
② THE ASPHALTIC ADHESIVE OR BUTYL PAD FURNISHED SHALL BE IN ACCORDANCE WITH MANUFACTURERS RECOMMENDATIONS.

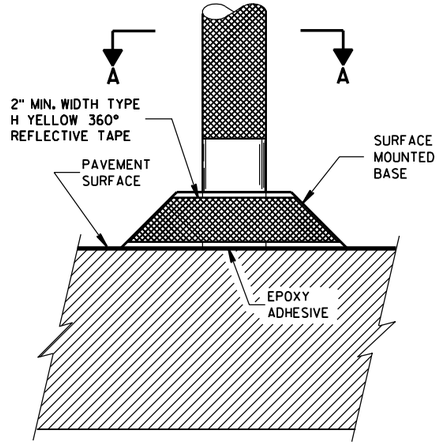


SECTION A-A
SURFACE MOUNTED BASE



SECTION B-B
ALTERNATIVE SHAPES





POST ANCHOR AND BASE ON PAVEMENT WHICH WILL BE REMOVED

FLEXIBLE TUBULAR MARKER POST, ANCHOR & BASES

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
2/17/94
DATE
STATE TRAFFIC ENGINEER FOR HWYS
FHWA

S.D.D. 15 C 11-5

TWO-LANE ROADWAY

SYMBOLS

WORK AREA

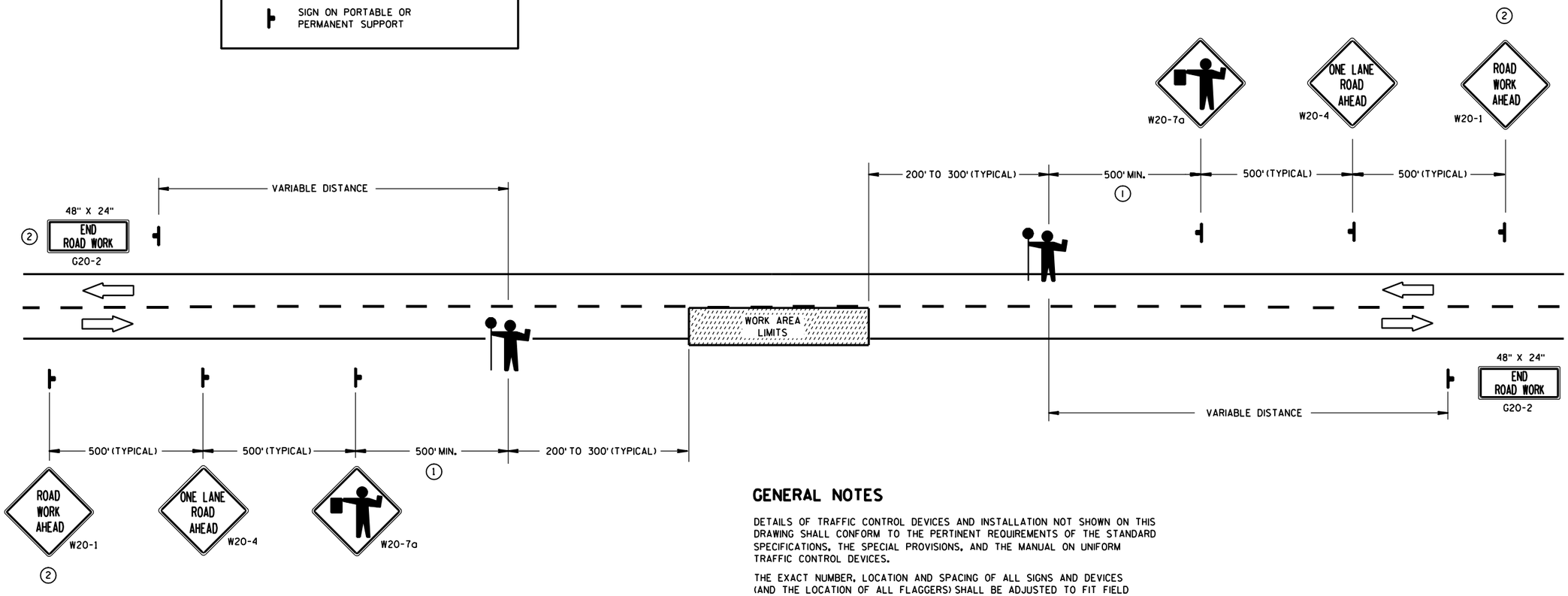
FLAGGER, EQUIPPED WITH STOP/SLOW PADDLE FASTENED ON SUPPORT STAFF

SIGN ON PORTABLE OR PERMANENT SUPPORT



W3-4

USE OF THE "BE PREPARED TO STOP" SIGN IS OPTIONAL. WHEN USED, THIS SIGN SHALL BE LOCATED BETWEEN THE W20-7a AND W20-4 SIGNS. A 500' TYPICAL SPACING SHALL BE PROVIDED BETWEEN THE SIGNS.



(1) FOR A MOVING WORK OPERATION,
SIGNING FOR BOTH DIRECTIONS SHALL BE REESTABLISHED (AS SIMULTANEOUSLY AS PRACTICAL) AT APPROXIMATELY 3500 FOOT INTERVALS IN THE MOVING WORK OPERATION OR AS APPROVED BY THE ENGINEER.

(2) SIGN NOT REQUIRED IF FLAGGING OPERATION OCCURS WITHIN A SIGNED ROAD WORK ZONE AREA.

GENERAL NOTES

DETAILS OF TRAFFIC CONTROL DEVICES AND INSTALLATION NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS, THE SPECIAL PROVISIONS, AND THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES.

THE EXACT NUMBER, LOCATION AND SPACING OF ALL SIGNS AND DEVICES (AND THE LOCATION OF ALL FLAGGERS) SHALL BE ADJUSTED TO FIT FIELD CONDITIONS AS APPROVED BY THE ENGINEER.

THE FIRST ADVANCE WARNING SIGN SHOULD TYPICALLY BE LOCATED IN ADVANCE OF THE ANTICIPATED TRAFFIC BACKUP OR QUEUE.

WHEN A SIDE ROAD OR RAMP INTERSECTS THE FACILITY ON WHICH THE WORK IS BEING PERFORMED, ADDITIONAL TRAFFIC CONTROLS SHALL BE PROVIDED AS SPECIFIED IN THE PLANS AND/OR THE SPECIAL PROVISIONS OR AS APPROVED BY THE ENGINEER.

FLAGGERS SHALL BE IN SIGHT OF EACH OTHER OR IN DIRECT COMMUNICATION AT ALL TIMES. THEY SHALL BE EQUIPPED WITH STOP/SLOW PADDLES FASTENED ON SUPPORT STAFFS. WHEN THE FLAGGING OPERATION IS NOT IN EFFECT, THE "FLAGGER AHEAD", THE "ROAD WORK AHEAD" AND THE ONE LANE ROAD AHEAD" SIGNS SHALL BE COVERED OR REMOVED AND THE HIGHWAY RESTORED TO NORMAL OPERATION.

ALL SIGNS ARE 48" X 48" UNLESS OTHERWISE NOTED.

TRAFFIC CONTROL FOR LANE CLOSURE (SUITABLE FOR MOVING OPERATIONS)

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
9/5/06 — DATE
/S/ Thomas N. Notbohm — STATE TRAFFIC ENGINEER OF DESIGN
FHWA

6

S.D.D. 15 C 12-3

6

S.D.D. 15 C 12-3

GENERAL NOTES

ORIENT ANCHOR BOLTS IN FOOTING AND PROVIDE ANCHOR BOLT STICK OUT ABOVE TOP OF CONCRETE FOOTING BASE PER FABRICATION DRAWING.

BENDING DIMENSIONS FOR REINFORCING BARS ARE OUT TO OUT.

USE 3" CLEAR FOR ALL REINFORCEMENT UNLESS NOTED OTHERWISE.

SIGN SUPPORTS SHALL BE LOCATED NORMAL TO ROADWAY.

THE CONTRACTOR IS RESPONSIBLE FOR MAKING HIS OWN DETERMINATION AS TO THE TYPE AND LOCATION OF UNDERGROUND UTILITIES AS MAY BE NECESSARY TO AVOID DAMAGE THERETO.

WELDING OF ANCHOR BOLTS TO THE CAGE IS UNACCEPTABLE. TEMPLATES SHALL BE USED.

BASES (SHAFT) SHALL BE EXCAVATED BY THE USE OF A CIRCULAR AUGER. IF A BASE REQUIRES A DEEP FORM BECAUSE OF LOOSE SOIL, THE FORM SHALL BE REMOVED BEFORE BACK FILLING AROUND THE BASE. ANY REQUIRED BACKFILL SHALL BE WELL COMPACTED IN LAYERS OF 1 FOOT OR LESS. COMPACTION SHALL BE BY MECHANICAL MEANS. CARE SHALL BE TAKEN SO NO DAMAGE OCCURS TO THE CONCRETE BASE DURING COMPACTION.

EXCAVATION OF MATERIALS NOT OCCUPIED BY CONCRETE SHALL BE MINIMIZED TO REDUCE DISTURBANCE OF THE SURROUNDING SOILS.

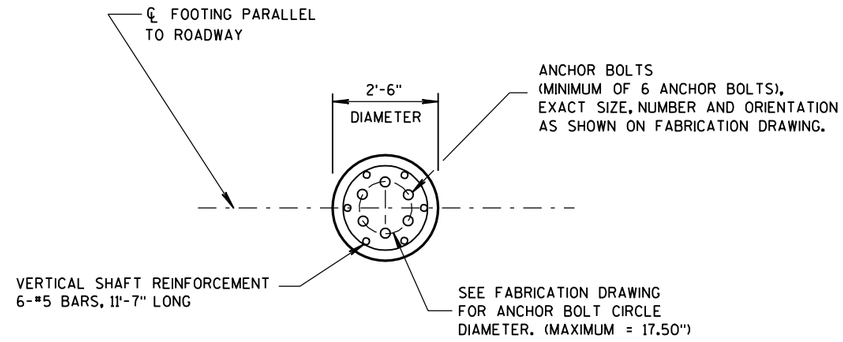
THE BOTTOM OF THE DRILLED HOLE SHALL BE FIRM AND THOROUGHLY CLEANED SO NO LOOSE OR COMPRESSIBLE MATERIALS ARE PRESENT AT THE TIME OF THE CONCRETE PLACEMENT.

IF THE DRILLED HOLE CONTAINS STANDING WATER, THE CONCRETE SHALL BE PLACED USING A TREMIE TO DISPLACE THE WATER.

THE REINFORCEMENT AND ANCHOR BOLTS SHALL BE ADEQUATELY SUPPORTED IN THE PROPER POSITIONS SO NO MOVEMENT OCCURS DURING CONCRETE PLACEMENT.

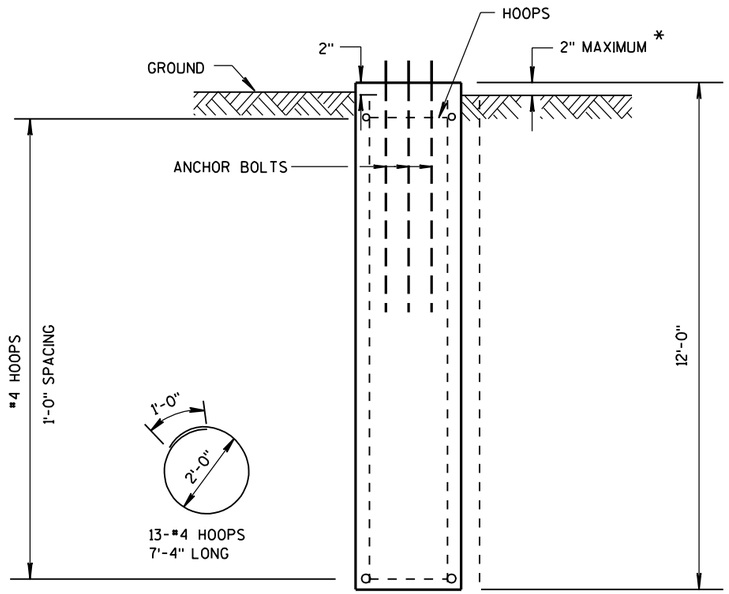
ANY DAMAGE TO THE CONCRETE BASE DURING CONSTRUCTION OPERATIONS SHALL BE REPAIRED AT THE ENGINEER'S DIRECTION, AT THE EXPENSE OF THE CONTRACTOR.

CONCRETE MASONRY	fc=3,500 p.s.i.
HIGH STRENGTH BAR STEEL REINFORCEMENT, GRADE 60	fy=60,000 p.s.i.
ANCHOR BOLTS	AASHTO M314 GRADE 55



PLAN VIEW

* FOR OVERHEAD SIGN SUPPORTS THAT ARE INSTALLED ADJACENT TO SIDEWALKS, THE TOP OF THE BASE SHALL BE POURED FLUSH WITH THE GROUND.



ELEVATION VIEW

CONCRETE - 2.2 C.Y. PER FOOTING
H.S. REINFORCEMENT - 136 LBS. PER FOOTING

30" DIAMETER CANTILEVER OVERHEAD SIGN SUPPORT BASE

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED

5-23-06
DATE

/S/ Thomas N. Notbohm
STATE TRAFFIC ENGINEER OF DESIGN

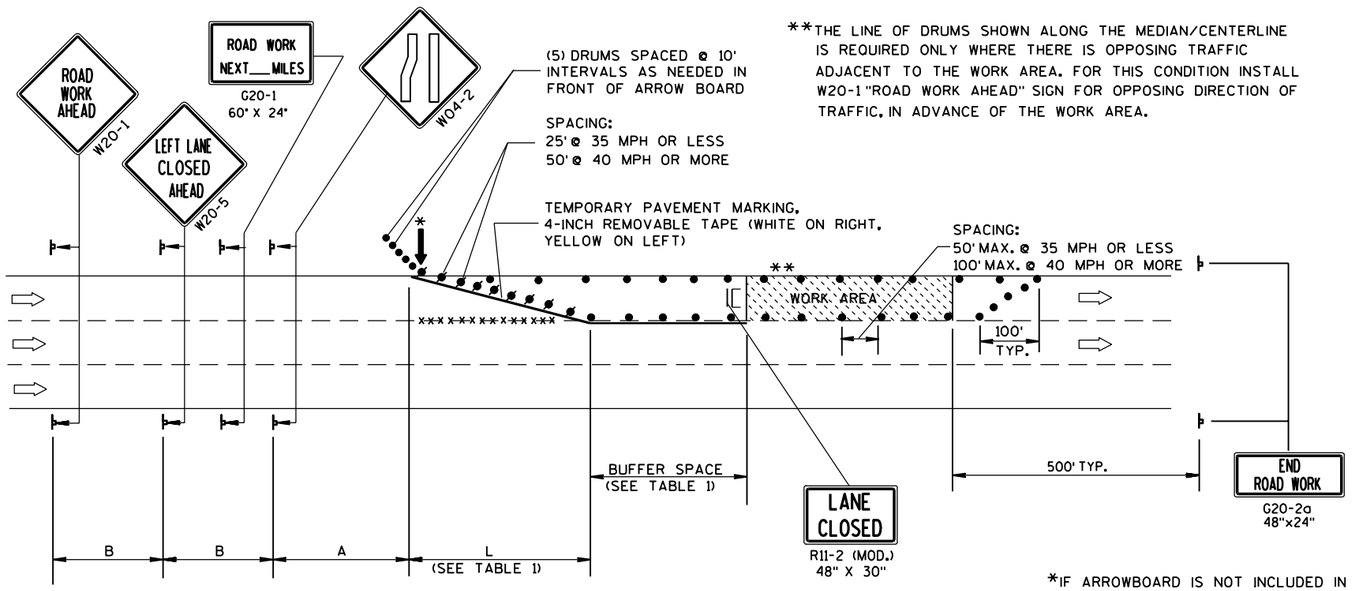
FHWA

6

S.D.D. 15 C 23-1

6

S.D.D. 15 C 23-1



**THE LINE OF DRUMS SHOWN ALONG THE MEDIAN/CENTERLINE IS REQUIRED ONLY WHERE THERE IS OPPOSING TRAFFIC ADJACENT TO THE WORK AREA. FOR THIS CONDITION INSTALL W20-1 "ROAD WORK AHEAD" SIGN FOR OPPOSING DIRECTION OF TRAFFIC, IN ADVANCE OF THE WORK AREA.

B=400' AT 25-30 MPH
700' AT 35-40 MPH
1000' AT 45-55 MPH

A=200' AT 25-30 MPH
350' AT 35-40 MPH
500' AT 45-55 MPH

(PLACE BARRICADE AND SIGN APPROX. EVERY 1000' ACROSS THE CLOSED LANE)

*IF ARROWBOARD IS NOT INCLUDED IN MISCELLANEOUS QUANTITIES, SUBSTITUTE A TYPE III BARRICADE WITH W01-6 SIGN IN THE LANE CLOSURE TAPER.

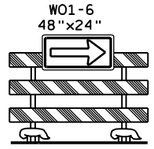


TABLE 1
TAPER AND BUFFER SPACE
FOR 12' LANE WIDTH

S	L	BUFFER SPACE
25	125'	55'
30	180'	85'
35	245'	120'
40	320'	170'
45	540'	220'
50	600'	280'
55	660'	335'

FOR LANE WIDTH OTHER THAN 12':

L = WS AT 45 MPH OR GREATER

$L = \frac{WS^2}{60}$ AT 40 MPH OR LESS

L = TAPER LENGTH IN FEET

S = NON-CONSTRUCTION SPEED LIMIT (MPH)

W = WIDTH OF LANE CLOSURE

LEGEND

- DRUM WITH/WITHOUT WARNING LIGHT, TYPE C (STEADY-BURN)
- POST MOUNTED SIGN
- ARROW BOARD
- TYPE III BARRICADE (8' EQUIVALENT) AND WARNING LIGHTS, TYPE A (FLASHING) WITH/WITHOUT SIGN
- DIRECTION OF TRAFFIC FLOW
- xxxx REMOVING PAVEMENT MARKING (SEE GENERAL NOTES)

GENERAL NOTES

THIS LANE CLOSURE DETAIL IS TYPICAL FOR CLOSING THE LEFT LANE. FOR A RIGHT LANE CLOSURE, REVERSE THE TRAFFIC CONTROL.

THIS DETAIL MAY BE USED FOR ROADWAYS WITH EITHER TWO OR THREE LANES IN EACH DIRECTION.

THE EXACT NUMBER, LOCATION, AND SPACING OF ALL SIGNS AND DEVICES SHALL BE ADJUSTED TO FIT FIELD CONDITIONS AS APPROVED BY THE ENGINEER.

THE SPACING BETWEEN TRAFFIC CONTROL SIGNS SHOULD BE ADJUSTED TO NOT CONFLICT WITH AND SHOULD PROVIDE A DESIRABLE MINIMUM OF 200 FEET CLEARANCE TO EXISTING SIGNS THAT WILL REMAIN IN PLACE.

ALL SIGNS ARE 48"x48" UNLESS OTHERWISE NOTED. IF NECESSARY DUE TO SPACE CONSTRAINTS IN URBAN AREAS, 36" X 36" SIGNS MAY BE USED IF APPROVED BY DISTRICT TRAFFIC UNIT.

"WO" SIGNS ARE THE SAME AS "W" SIGNS EXCEPT THE BACKGROUND IS ORANGE.

SIGNS THAT WILL BE IN PLACE LESS THAN 7 CONTINUOUS DAYS AND NIGHTS, OR THAT WILL BE PLACED IN A CLOSED LANE, MAY BE MOUNTED ON PORTABLE SUPPORTS.

ANY SIGNS TEMPORARY OR EXISTING, WHICH CONFLICT WITH TRAFFIC CONTROL "IN USE" SHALL BE REMOVED OR COVERED AS NEEDED AND AS APPROVED BY THE ENGINEER.

REMOVE PAVEMENT MARKINGS AND PLACE TEMPORARY PAVEMENT MARKING, REMOVABLE TAPE IF LANE CLOSURE IS TO BE IN PLACE FOR 7 OR MORE CONTINUOUS DAYS AND NIGHTS.

ON UNDIVIDED ROADWAYS, OMIT THE SIGNS SHOWN ON LEFT SIDE OF ROAD.

W20-1, G20-1 AND G20-2A SIGNS ARE NOT REQUIRED IF THE LANE CLOSURE IS WITHIN A LARGER WORK ZONE WHERE THESE SIGNS ARE ALREADY PRESENT.

OMIT G20-1 SIGNS IF LENGTH OF WORK AREA IS 2 MILES OR LESS.

CONSIDER GEOMETRICS WHEN LOCATING SIGNS AND ARROWBOARDS SO THE APPROACHING DRIVER HAS A CLEAR VIEW OF THE ARROWBOARDS AND LANE CLOSURE DRUMS.

PLACE THE ARROWBOARD AS CLOSE AS POSSIBLE TO THE BEGINNING OF THE LANE CLOSURE TAPER, PREFERABLY ON THE SHOULDER OR TERRACE.

CHANNELIZING DEVICES PLACED ADJACENT TO WORK AREA SHALL BE PULLED BACK FROM THE TRAVEL LANE WHEN WORK IS NOT IN PROGRESS.

BARRICADES IN A CLOSED LANE THAT MUST BE MOVED FOR A WORK OPERATION SHALL BE IMMEDIATELY RE-ESTABLISHED UPON COMPLETION OF THE OPERATION OR, FOR CONTINUING OPERATIONS, AT THE END OF EACH WORKING DAY.

WARNING LIGHTS ARE NOT REQUIRED IF THE LANE CLOSURE IS A DAYTIME ONLY OPERATION.

TRAFFIC CONTROL, SINGLE LANE CLOSURE, NON-FREEWAY/EXPRESSWAY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
5/23/00
DATE

Chester J. Sparg
CHIEF SIGNS AND MARKING ENGINEER

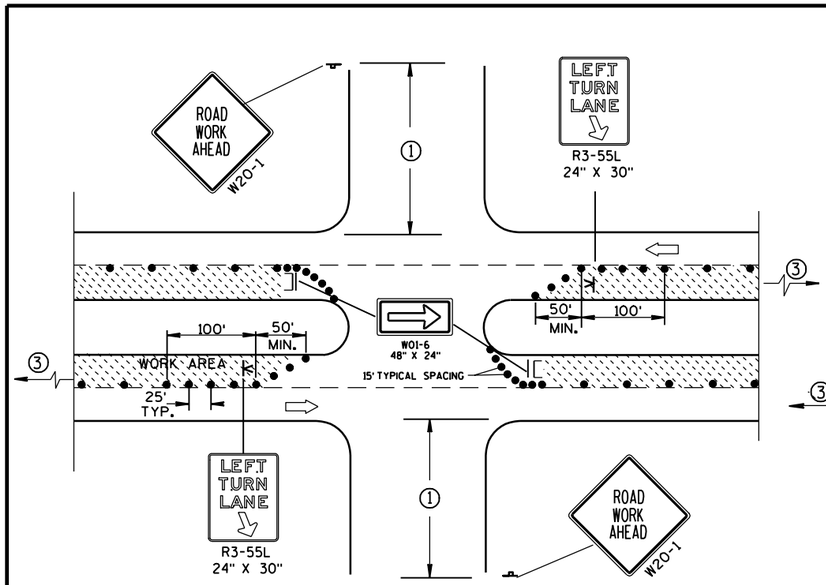
FHWA

6

S.D.D. 15 D 20-1

6

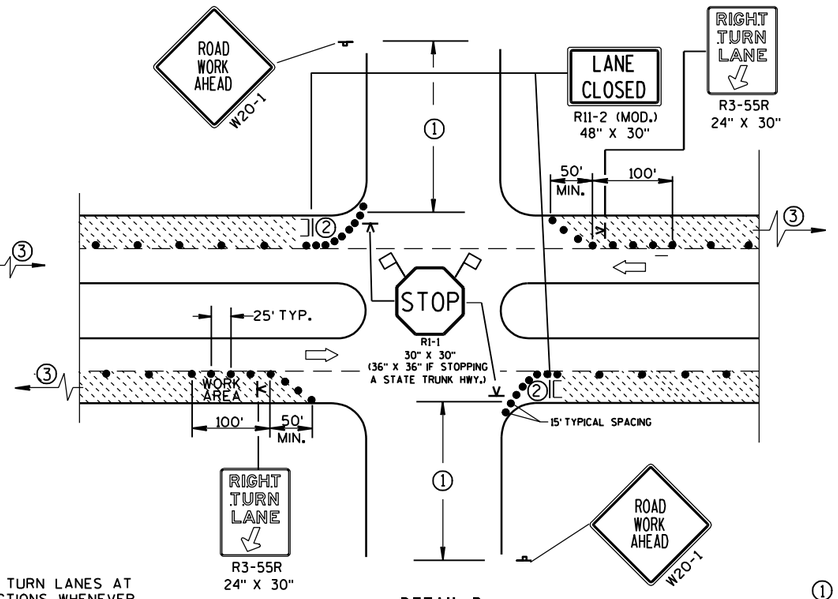
S.D.D. 15 D 20-1



DETAIL A

FOR LEFT LANE CLOSURE AT INTERSECTION OR MEDIAN OPENING

PROVIDE TURN LANES AT INTERSECTIONS WHENEVER STAGING OF WORK ALLOWS. TAPER AND TURN LANE LENGTHS BASED ON FIELD CONDITIONS AS APPROVED BY THE ENGINEER.



DETAIL B

FOR RIGHT LANE CLOSURE AT INTERSECTION

GENERAL NOTES

THE EXACT NUMBER, LOCATION, AND SPACING OF ALL SIGNS AND DEVICES SHALL BE ADJUSTED TO FIT FIELD CONDITIONS AS APPROVED BY THE ENGINEER.

THE SPACING BETWEEN SIGNS SHOULD BE ADJUSTED TO NOT CONFLICT WITH AND SHOULD PROVIDE A DESIRABLE MINIMUM OF 200 FEET CLEARANCE TO EXISTING SIGNS THAT WILL REMAIN IN PLACE.

ALL SIGNS ARE 48"x48" UNLESS OTHERWISE NOTED. IF NECESSARY DUE TO SPACE CONSTRAINTS IN URBAN AREAS, 36" X 36" SIGNS MAY BE USED IF APPROVED BY DISTRICT TRAFFIC UNIT.

"WO" SIGNS ARE THE SAME AS "W" SIGNS EXCEPT THE BACKGROUND IS ORANGE.

SIGN LAYOUTS SHALL BE IN ACCORDANCE WITH THE FHWA'S MANUAL OF STANDARD HIGHWAY SIGNS OR THE WISCONSIN STANDARD SIGN PLATES.

SIGNS THAT WILL BE IN PLACE LESS THAN 7 CONTINUOUS DAYS AND NIGHTS, OR THAT WILL BE PLACED IN A CLOSED LANE, MAY BE MOUNTED ON PORTABLE SUPPORTS.

ANY SIGNS TEMPORARY OR EXISTING, WHICH CONFLICT WITH TRAFFIC CONTROL "IN USE" SHALL BE REMOVED OR COVERED AS NEEDED AND AS APPROVED BY THE ENGINEER.

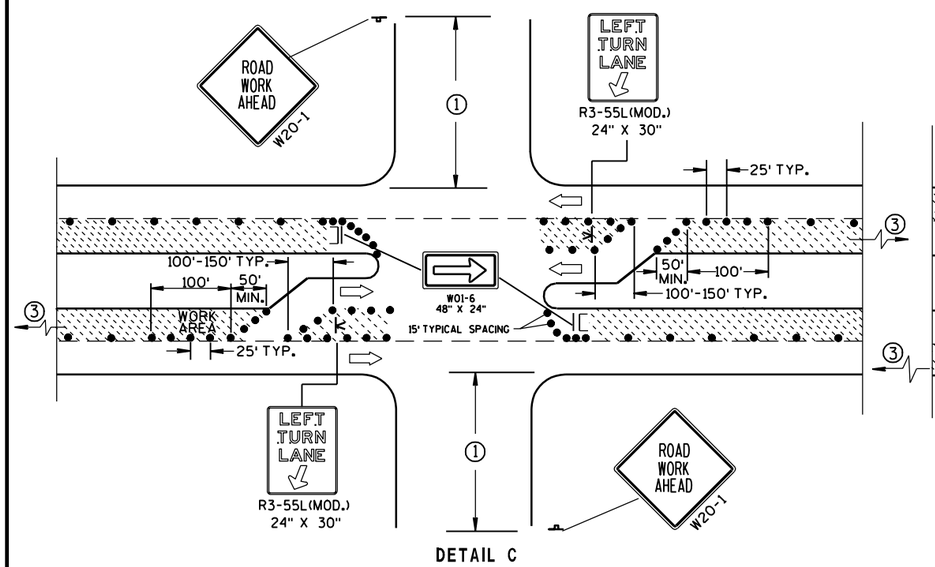
CHANNELIZING DEVICES PLACED ADJACENT TO WORK AREA SHALL BE PULLED BACK FROM THE TRAVEL LANE WHEN WORK IS NOT IN PROGRESS.

BARRICADES IN A CLOSED LANE THAT MUST BE MOVED FOR A WORK OPERATION SHALL BE IMMEDIATELY RE-ESTABLISHED UPON COMPLETION OF THE OPERATION OR, FOR CONTINUING OPERATIONS, AT THE END OF EACH WORKING DAY.

① 500' TYPICAL OR AT LAST INTERSECTION, WHICHEVER IS CLOSER.
350' IF 35-40 MPH.
200' IF 25-30 MPH.

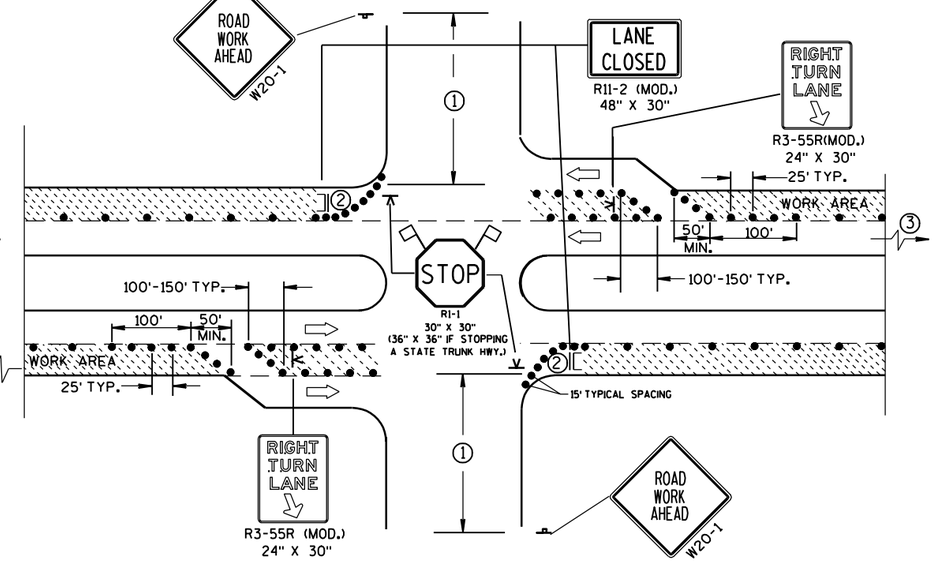
② ALSO USE BARRICADE AND 15' TYPICAL DRUM SPACING AT COMMERCIAL DRIVEWAYS.

③ SEE SEPARATE LANE CLOSURE DETAIL FOR ADDITIONAL TRAFFIC CONTROL.



DETAIL C

FOR LEFT LANE CLOSURE AT INTERSECTION OR MEDIAN OPENING (WITH LEFT TURN BAY OPEN)



DETAIL D

FOR RIGHT LANE CLOSURE AT INTERSECTION (WITH RIGHT TURN BAY OPEN)

LEGEND

- DRUM
- POST MOUNTED SIGN
- SIGN ON PORTABLE SUPPORT (5' MIN. MOUNTING HEIGHT)
- TYPE III BARRICADE (8' EQUIVALENT) AND WARNING LIGHT, TYPE A (FLASHING) WITH SIGN
- DIRECTION OF TRAFFIC FLOW
- FLAGS, 16" X 16" MIN., ORANGE

TRAFFIC CONTROL, INTERSECTION WITHIN SINGLE LANE CLOSURE

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
5/23/00
DATE

Chester J. Sparg
CHIEF SIGNS AND MARKING ENGINEER

FHWA

TABLE 1
TAPER AND BUFFER SPACE
FOR 12' LANE WIDTH

S	L	BUFFER SPACE
25	125'	55'
30	180'	85'
35	245'	120'
40	320'	170'
45	540'	220'
50	600'	280'
55	660'	335'

FOR LANE WIDTH OTHER THAN 12':

L = WS AT 45 MPH OR GREATER

L = $\frac{WS^2}{60}$ AT 40 MPH OR LESS

L = TAPER LENGTH IN FEET

S = NON-CONSTRUCTION SPEED LIMIT (MPH)

W = WIDTH OF LANE CLOSURE

LEGEND

- DRUM WITH/WITHOUT WARNING LIGHT, TYPE C (STEADY-BURN)
- POST MOUNTED SIGN
- SIGN ON PORTABLE SUPPORT
- ARROW BOARD
- TYPE III BARRICADE (8' EQUIVALENT) AND WARNING LIGHTS, TYPE A (FLASHING) WITH/WITHOUT SIGN
- DIRECTION OF TRAFFIC FLOW
- xxxx REMOVING PAVEMENT MARKING (SEE GENERAL NOTES)

GENERAL NOTES

THIS DETAIL IS TYPICAL FOR CLOSING THE RIGHT TWO LANES. FOR CLOSING THE LEFT TWO LANES, REVERSE THE TRAFFIC CONTROL.

THE EXACT NUMBER, LOCATION, AND SPACING OF ALL SIGNS AND DEVICES SHALL BE ADJUSTED TO FIT FIELD CONDITIONS AS APPROVED BY THE ENGINEER.

THE SPACING BETWEEN SIGNS SHOULD BE ADJUSTED TO NOT CONFLICT WITH AND SHOULD PROVIDE A DESIRABLE MINIMUM OF 200 FEET CLEARANCE TO EXISTING SIGNS THAT WILL REMAIN IN PLACE.

ALL SIGNS ARE 48"x48" UNLESS OTHERWISE NOTED. IF NECESSARY DUE TO SPACE CONSTRAINTS IN URBAN AREAS, 36" X 36" SIGNS MAY BE USED IF APPROVED BY THE DISTRICT TRAFFIC UNIT.

"WO" SIGNS ARE THE SAME AS "W" SIGNS EXCEPT THE BACKGROUND IS ORANGE.

SIGNS THAT WILL BE IN PLACE LESS THAN 7 CONTINUOUS DAYS AND NIGHTS, OR THAT WILL BE PLACED IN A CLOSED LANE, MAY BE MOUNTED ON PORTABLE SUPPORTS.

ANY SIGNS TEMPORARY OR EXISTING, WHICH CONFLICT WITH TRAFFIC CONTROL "IN USE" SHALL BE REMOVED OR COVERED AS NEEDED AND AS APPROVED BY THE ENGINEER.

REMOVE PAVEMENT MARKINGS AND PLACE TEMPORARY PAVEMENT MARKING, REMOVABLE TAPE IF LANE CLOSURE IS TO BE IN PLACE FOR 7 OR MORE CONTINUOUS DAYS AND NIGHTS.

W20-1, G20-1 AND G20-2A SIGNS ARE NOT REQUIRED IF THE LANE CLOSURE IS WITHIN A LARGER WORK ZONE WHERE THESE SIGNS ARE ALREADY PRESENT.

OMIT G20-1 SIGNS IF LENGTH OF WORK AREA IS 2 MILES OR LESS.

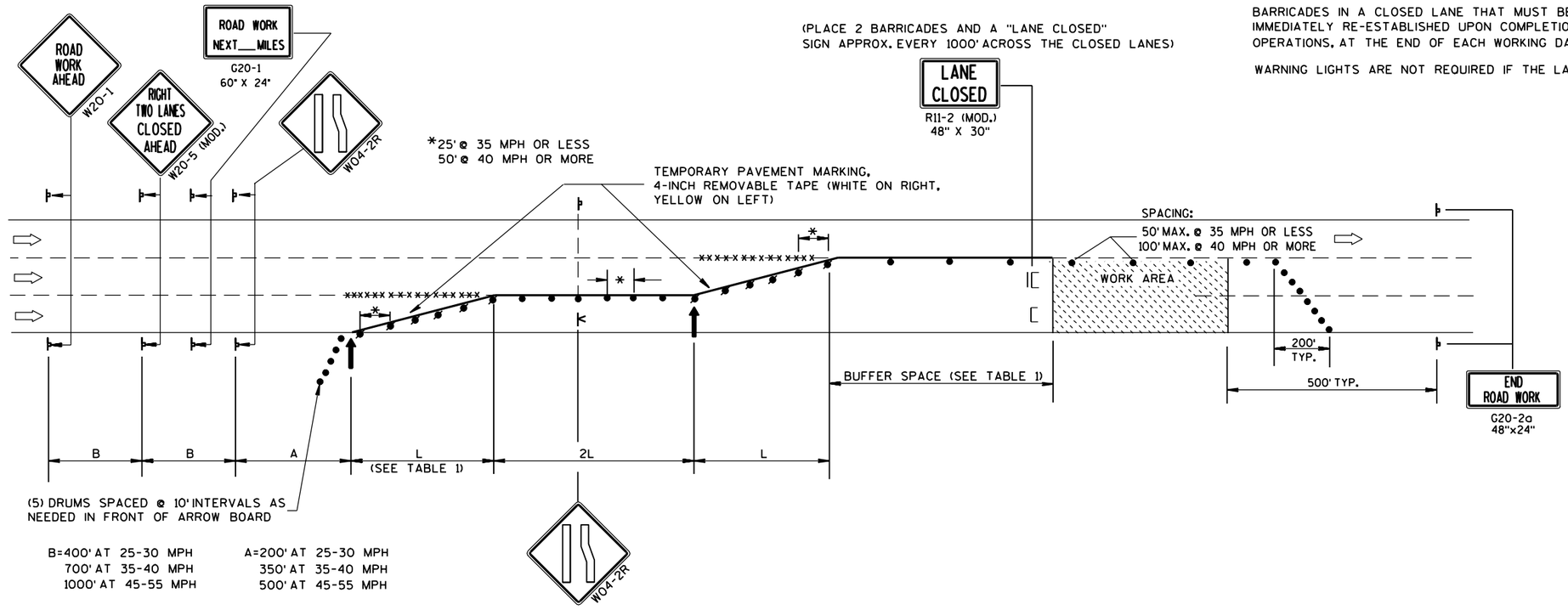
CONSIDER GEOMETRICS WHEN LOCATING SIGNS AND ARROWBOARDS SO THE APPROACHING DRIVER HAS A CLEAR VIEW OF THE ARROWBOARDS AND LANE CLOSURE DRUMS.

WHERE THE SHOULDER OR TERRACE HAS INSUFFICIENT SPACE TO LOCATE THE ARROWBOARD AS SHOWN, PLACE THE ARROWBOARD IN THE LANE CLOSURE TAPER AS CLOSE AS POSSIBLE TO THE BEGINNING OF THE TAPER.

CHANNELIZING DEVICES PLACED ADJACENT TO WORK AREA SHALL BE PULLED BACK FROM THE TRAVEL LANE WHEN WORK IS NOT IN PROGRESS.

BARRICADES IN A CLOSED LANE THAT MUST BE MOVED FOR A WORK OPERATION SHALL BE IMMEDIATELY RE-ESTABLISHED UPON COMPLETION OF THE OPERATION OR, FOR CONTINUING OPERATIONS, AT THE END OF EACH WORKING DAY.

WARNING LIGHTS ARE NOT REQUIRED IF THE LANE CLOSURE IS A DAYTIME ONLY OPERATION.



B=400' AT 25-30 MPH
700' AT 35-40 MPH
1000' AT 45-55 MPH

A=200' AT 25-30 MPH
350' AT 35-40 MPH
500' AT 45-55 MPH

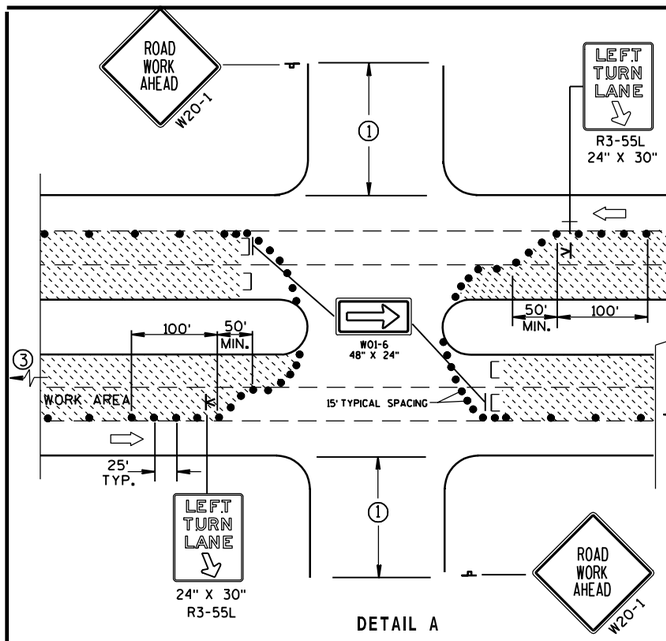
TRAFFIC CONTROL, TWO LANE CLOSURE, NON-FREEWAY/EXPRESSWAY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
5/23/00
DATE

Chester J. Seavy
CHIEF SIGNS AND MARKING ENGINEER

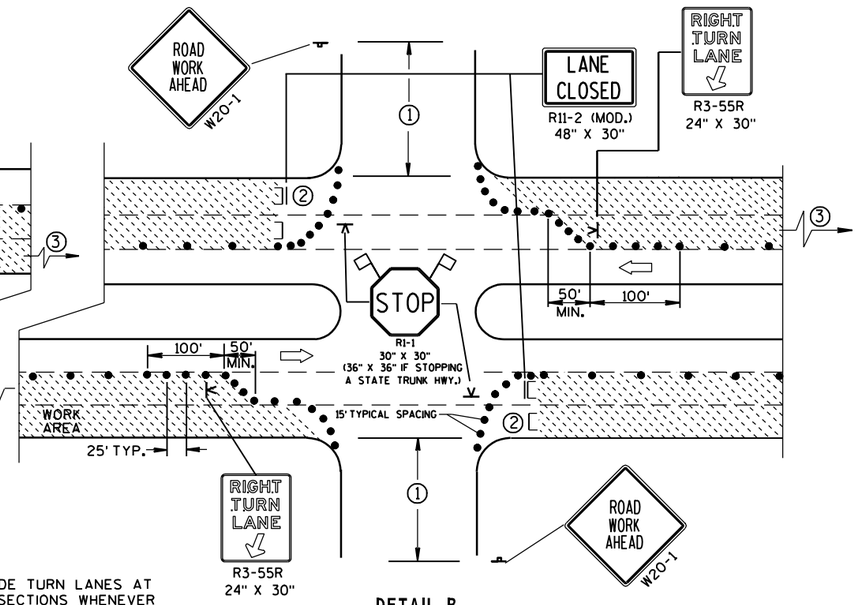
FHWA



DETAIL A

FOR LEFT TWO LANES CLOSED AT INTERSECTION OR MEDIAN BREAK

PROVIDE TURN LANES AT INTERSECTIONS WHENEVER STAGING OF WORK ALLOWS. TAPER AND TURN LANE LENGTHS BASED ON FIELD CONDITIONS AS APPROVED BY THE ENGINEER.



DETAIL B

FOR RIGHT TWO LANES CLOSED AT INTERSECTION

GENERAL NOTES

THE EXACT NUMBER, LOCATION, AND SPACING OF ALL SIGNS AND DEVICES SHALL BE ADJUSTED TO FIT FIELD CONDITIONS AS APPROVED BY THE ENGINEER.

THE SPACING BETWEEN SIGNS SHOULD BE ADJUSTED TO NOT CONFLICT WITH AND SHOULD PROVIDE A DESIRABLE MINIMUM OF 200 FEET CLEARANCE TO EXISTING SIGNS THAT WILL REMAIN IN PLACE.

ALL SIGNS ARE 48"×48" UNLESS OTHERWISE NOTED. IF NECESSARY DUE TO SPACE CONSTRAINTS IN URBAN AREAS, 36" X 36" SIGNS MAY BE USED IF APPROVED BY DISTRICT TRAFFIC UNIT.

SIGN LAYOUTS SHALL BE IN ACCORDANCE WITH THE FHWA'S MANUAL OF STANDARD SIGNS OR THE WISCONSIN STANDARD SIGN PLATES.

SIGNS THAT WILL BE IN PLACE LESS THAN 7 CONTINUOUS DAYS AND NIGHTS, OR THAT WILL BE PLACED IN A CLOSED LANE, MAY BE MOUNTED ON PORTABLE SUPPORTS.

ANY SIGNS TEMPORARY OR EXISTING, WHICH CONFLICT WITH TRAFFIC CONTROL "IN USE" SHALL BE REMOVED OR COVERED AS NEEDED AND AS APPROVED BY THE ENGINEER.

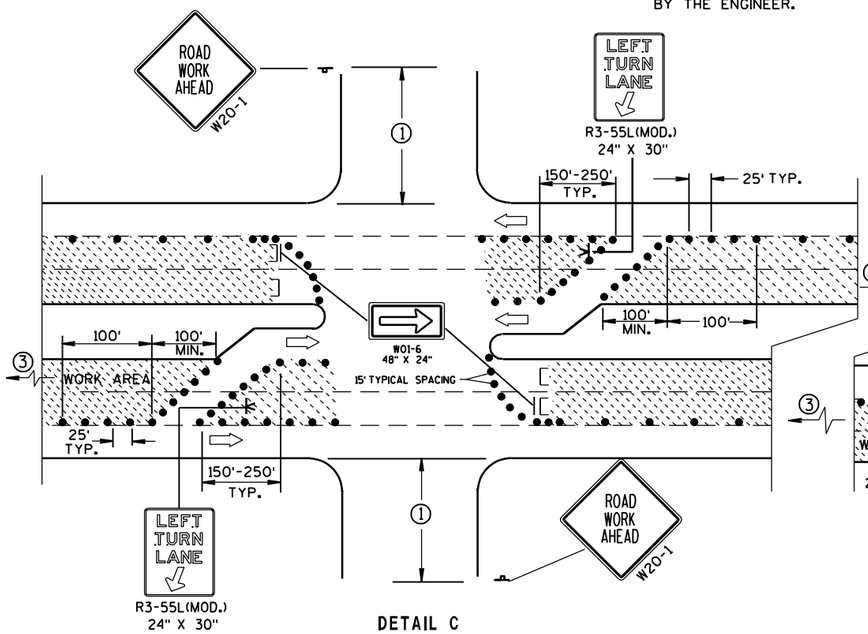
CHANNELIZING DEVICES PLACED ADJACENT TO WORK AREA SHALL BE PULLED BACK FROM THE TRAVEL LANE WHEN WORK IS NOT IN PROGRESS.

BARRICADES IN A CLOSED LANE THAT MUST BE MOVED FOR A WORK OPERATION SHALL BE IMMEDIATELY RE-ESTABLISHED UPON COMPLETION OF THE OPERATION OR, FOR CONTINUING OPERATIONS, AT THE END OF EACH WORKING DAY.

① 500' TYPICAL OR AT LAST INTERSECTION, WHICHEVER IS CLOSER.
350' IF 35-40 MPH.
200' IF 25-30 MPH.

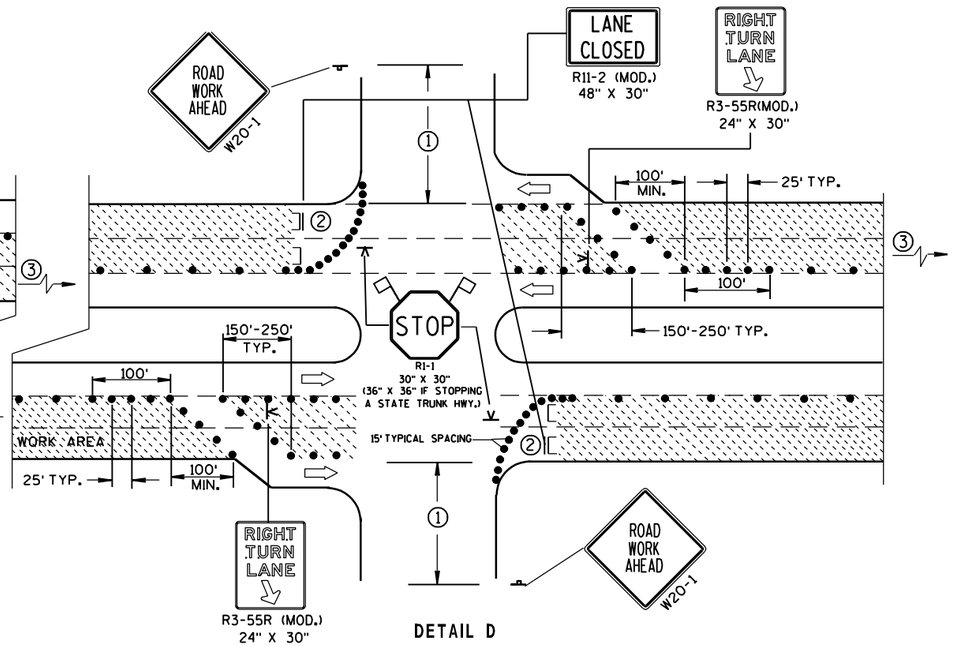
② ALSO USE BARRICADES AND 15' TYPICAL DRUM SPACING AT COMMERCIAL DRIVEWAYS.

③ SEE SEPARATE LANE CLOSURE DETAIL FOR ADDITIONAL TRAFFIC CONTROL.



DETAIL C

FOR LEFT TWO LANES CLOSED AT INTERSECTION OR MEDIAN BREAK (WITH LEFT TURN BAY OPEN)



DETAIL D

FOR RIGHT TWO LANES CLOSED AT INTERSECTION (WITH RIGHT TURN BAY OPEN)

LEGEND

- ● DRUM
- ⚲ POST MOUNTED SIGN
- ⚲ SIGN ON PORTABLE SUPPORT (5' MIN. MOUNTING HEIGHT)
- ⧐/⧏ TYPE III BARRICADE (8' EQUIVALENT) AND WARNING LIGHT, TYPE A (FLASHING) WITH/WITHOUT SIGN
- ⇨ DIRECTION OF TRAFFIC FLOW
- ⚑ FLAGS, 16" X 16" MIN., ORANGE

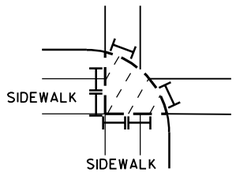
TRAFFIC CONTROL, INTERSECTION WITHIN TWO LANE CLOSURE

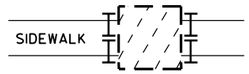
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

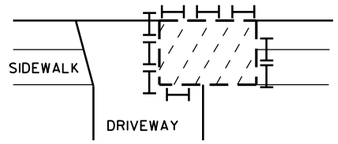
APPROVED
5/23/00 DATE
Chester J. Seyer
CHIEF SIGNS AND MARKING ENGINEER
FHWA

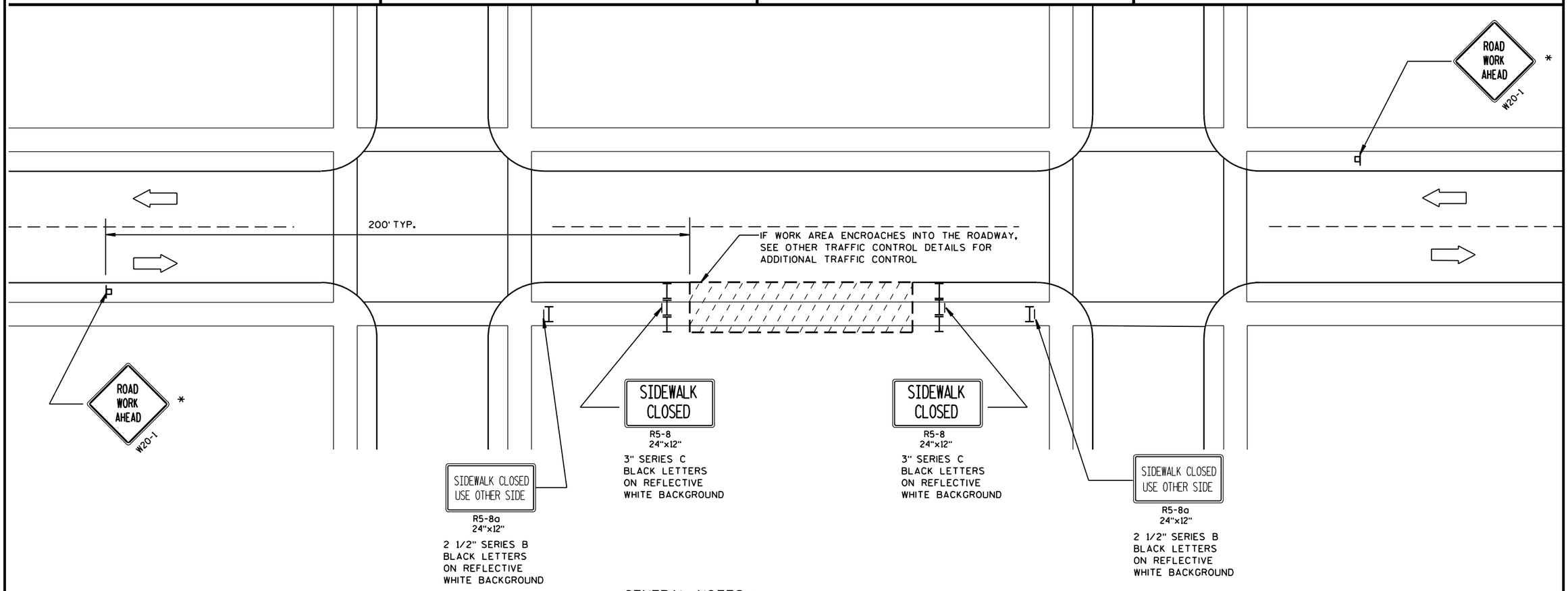
6
S.D.D. 15 D 23-1

WARNING OF LOCALIZED SIDEWALK WORK AREAS









LEGEND

- POST MOUNTED SIGN
- TYPE II BARRICADE WITH/WITHOUT SIGN (ALL WITH ONE WARNING LIGHT, TYPE A, LOW-INTENSITY FLASHING)
- WORK AREA
- DIRECTION OF TRAFFIC FLOW

GENERAL NOTES :

ALL SIGNS ARE 48"x48" UNLESS OTHERWISE NOTED. IF NECESSARY DUE TO SPACE CONSTRAINTS, 36"x36" SIGNS MAY BE USED INSTEAD OF 48"x48" SIGNS, IF APPROVED BY DISTRICT TRAFFIC UNIT.

THE EXACT LOCATION AND PLACEMENT OF ALL SIGNS AND DEVICES SHALL BE ADJUSTED TO FIT FIELD CONDITIONS.

"WO" SIGNS ARE THE SAME AS "W" SIGNS EXCEPT THE BACKGROUND IS ORANGE.

* "ROAD WORK AHEAD" SIGNS ARE NOT REQUIRED IF THE SIDEWALK CLOSURE OCCURS WITHIN A LARGER WORK ZONE WHERE ADVANCE WARNING SIGNS ARE ALREADY PRESENT, OR IF THE WORK AREA AND EQUIPMENT ARE MORE THAN 2 FEET BEHIND THE CURB.

WARNING SIGNS THAT WILL BE IN PLACE LESS THAN 7 CONTINUOUS DAYS AND NIGHTS MAY BE MOUNTED ON PORTABLE SUPPORTS.

TRAFFIC CONTROL, SIDEWALK CLOSURE

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

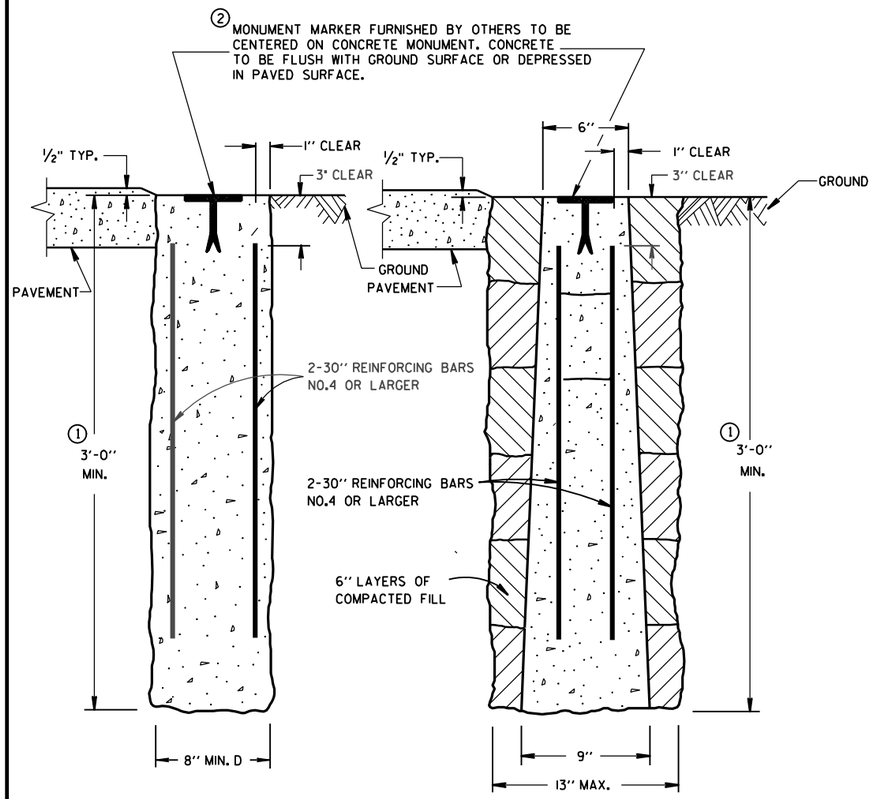
APPROVED
5/23/00
DATE
Chester J. Seyer
CHIEF SIGNS AND MARKING ENGINEER
FHWA

6

S.D.D. 15 D 30-1

6

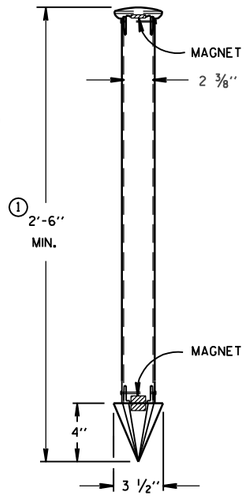
S.D.D. 15 D 30-1



CAST-IN-PLACE PRECAST

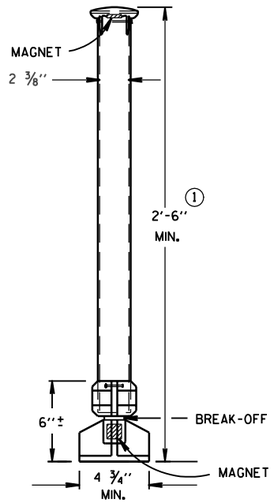
CONCRETE MONUMENTS

TYPE A



TYPE C

DRIVE-IN MONUMENT



TYPE D

BREAK-OFF MONUMENT

ALUMINUM MONUMENTS

(INCLUDES MARKER)

GENERAL NOTES

DETAILS OF CONSTRUCTION, MATERIALS AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS AND THE APPLICABLE SPECIAL PROVISIONS.

DETAILED DRAWINGS OF PROPOSED ALTERNATE DESIGNS FOR METAL MONUMENTS OR MONUMENT COVERS SHALL BE SUBMITTED TO THE ENGINEER FOR APPROVAL.

INSTALLED METAL MONUMENTS MUST BE EASILY DETECTED WITH A DIP NEEDLE. INSERT PERMANENT MAGNETS SHALL BE ATTACHED NEAR THE TOP AND BOTTOM OF THOSE MONUMENTS CONSTRUCTED OF A METAL ALLOY WHICH IS NOT ATTRACTIVE TO A DIP NEEDLE.

THE CAST IRON MONUMENT COVER SHALL BE A "NON-ROCKING" TYPE. ADJUSTMENT OF THE COVER TO GRADE MAY BE ACCOMPLISHED BY THE USE OF MORTAR AND BRICK, OR BY EITHER PRECAST OR CAST-IN-PLACE REINFORCED CONCRETE GRADE RINGS.

MONUMENTS SHALL BE LOCATED AND PLACED AT THE DIRECTION OF THE ENGINEER.

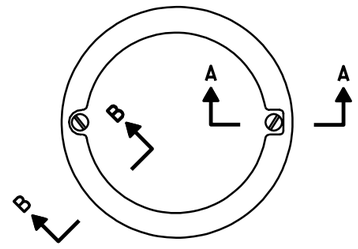
ALUMINUM MONUMENTS AND MONUMENT COVERS SHALL BE MADE FROM AN ALUMINUM AND MAGNESIUM ALLOY AS DETERMINED BY THE MANUFACTURER.

THE MONUMENT COVERS DETAILED ON THIS DRAWING ARE NOT EQUAL ALTERNATES. MONUMENT COVERS SHALL BE CAST IRON UNLESS ALUMINUM IS SPECIFIED ELSEWHERE IN THE CONTRACT.

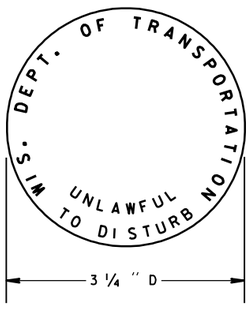
MONUMENT SHALL BE CAST-IN-PLACE CONCRETE UNLESS PRECAST CONCRETE OR ALUMINUM MONUMENTS ARE SPECIFIED IN THE CONTRACT OR PERMITTED BY THE ENGINEER.

① MINIMUM LENGTH SHALL BE 4'-0" FOR MONUMENTS INSTALLED IN PAVED AREAS.

② AN OFFICIAL COUNTY MONUMENT MARKER SUPPLIED BY A COUNTY MAY BE REQUIRED FOR SOME SECTION CORNERS AND WITNESS MONUMENTS INSTEAD OF THIS WIS DOT MARKER.

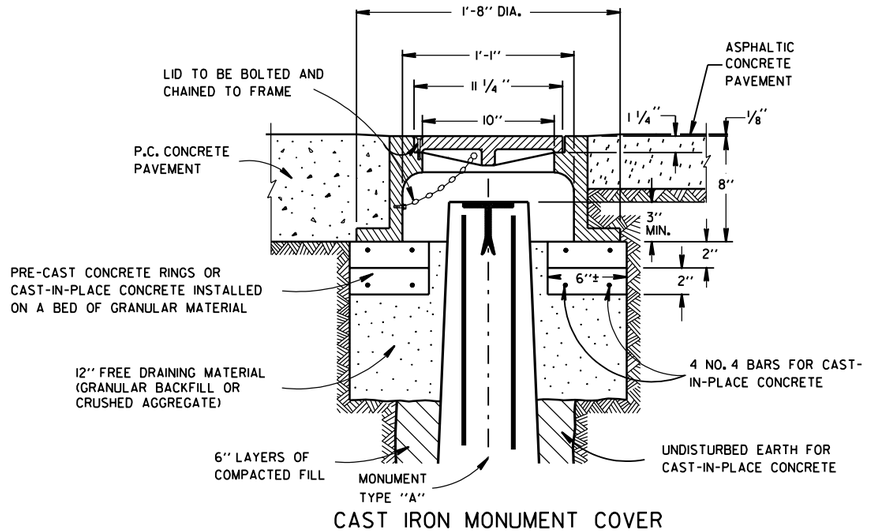


TOP VIEW



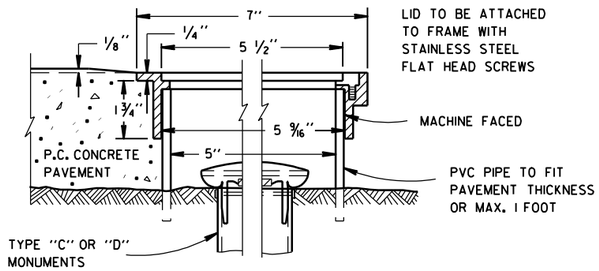
② WIS DOT MONUMENT MARKER LOGO

FOR TYPES "A", "C" & "D"



CAST IRON MONUMENT COVER

(APPROXIMATE WEIGHT - 95 LBS.)



SECTION B-B SECTION A-A

ALUMINUM MONUMENT COVER

(APPROXIMATE WEIGHT 2 LBS)

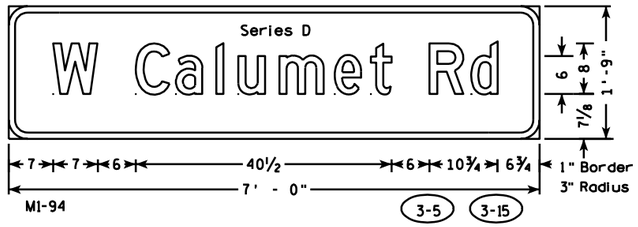
(FOR CONCRETE PAVEMENT ONLY)

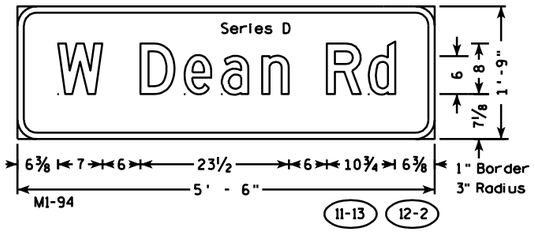
LANDMARK REFERENCE MONUMENTS AND COVERS

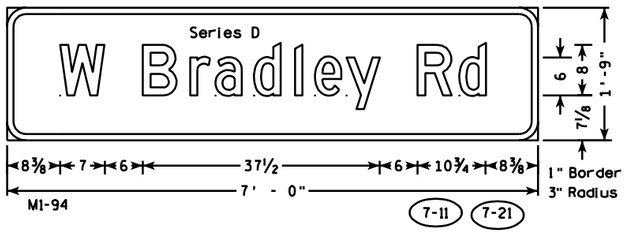
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

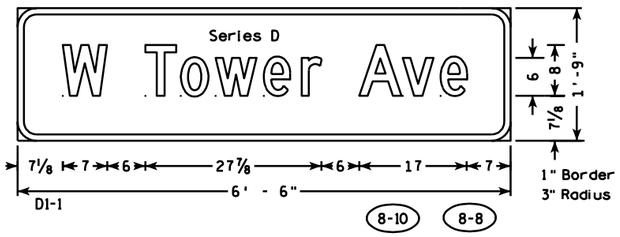
APPROVED 9/22/99 DATE
CHIEF ROADWAY DEVELOPMENT ENGINEER
FHWA

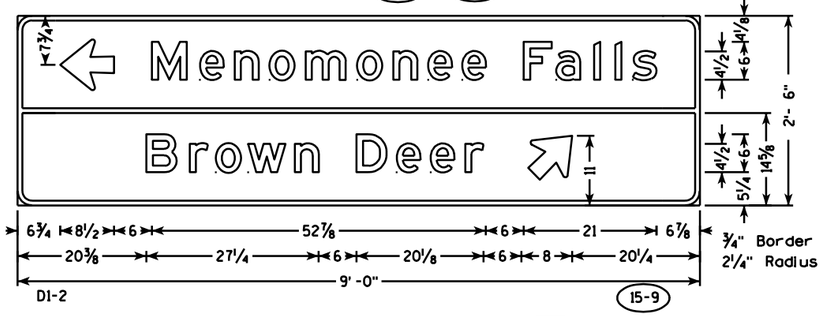
6
S.D.D. 16 A 1-6

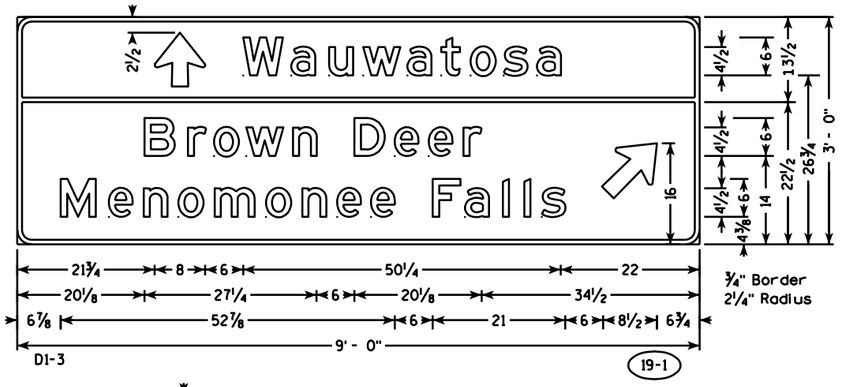


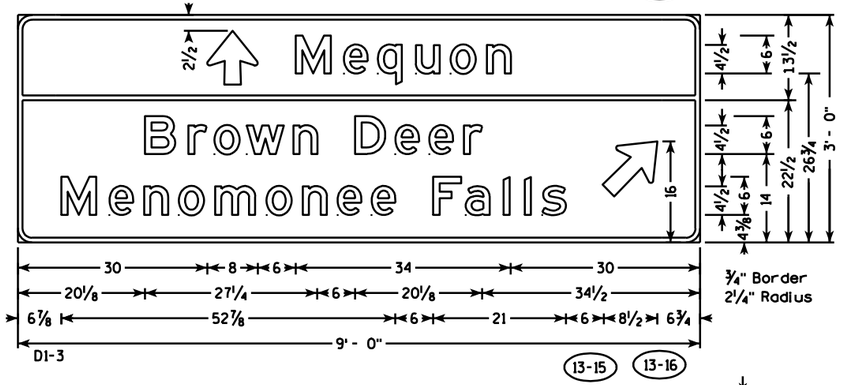


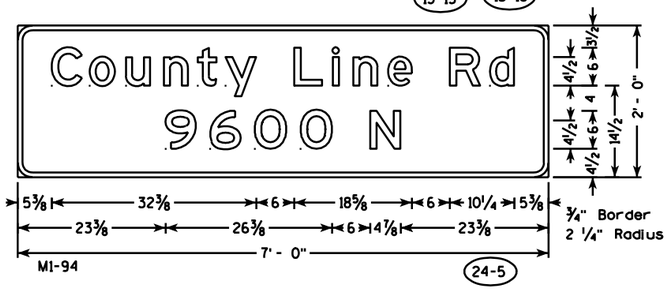


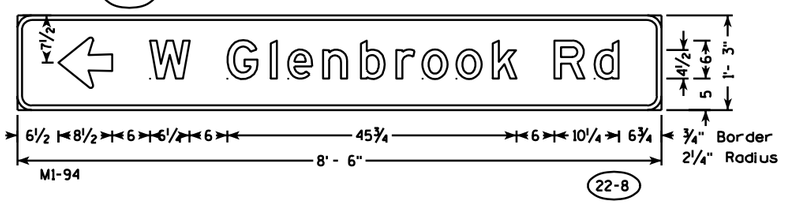


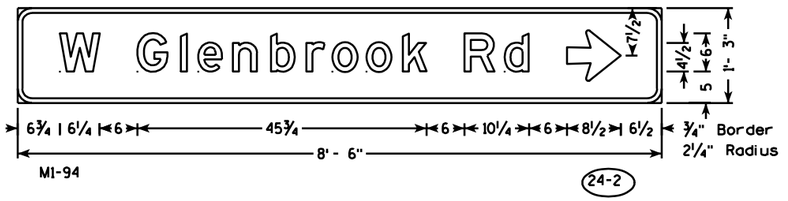


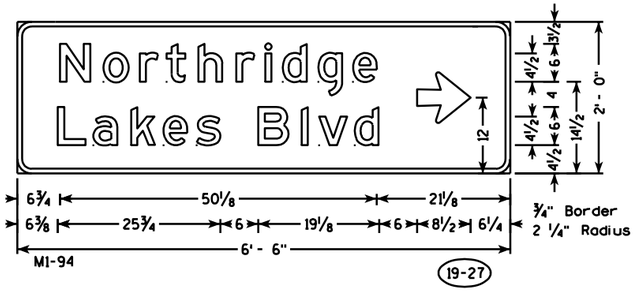


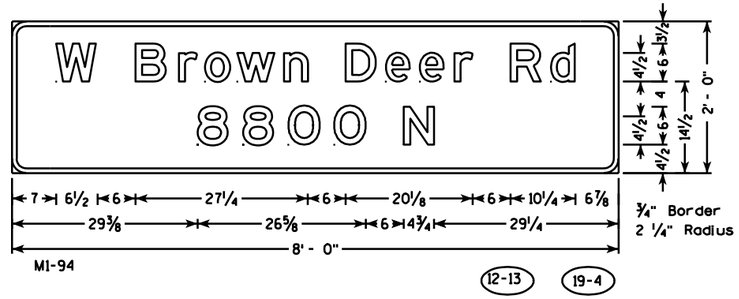












NOTES

1. All Signs Type II - Type H Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - Green
   Message - White
3. Message Series - E except as noted

7

7

PROJECT NO: 2140-08-73	HWY: STH 181	COUNTY: MILWAUKEE	PERMANENT SIGNING	SHEET NO: 797	E

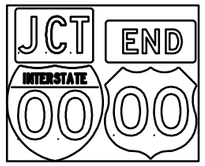
FILE NAME : C:\Users\Projects\tr_d2\21400873.dgn PLOT DATE : 12-OCT-2007 11:35 PLOT BY : ditjph PLOT NAME : PLOT SCALE : 23.985000:1.000000

WISDOT/CADDS SHEET 42

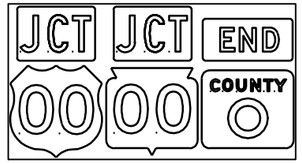
TYPICAL ASSEMBLIES



J1-1



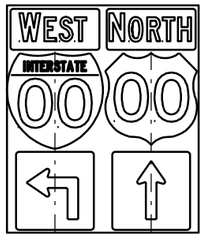
J1-2



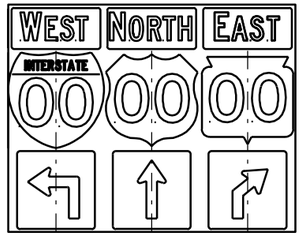
J1-3



J2-1



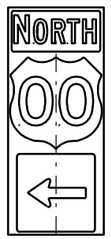
J2-2



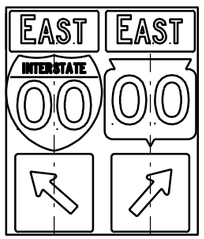
J2-3



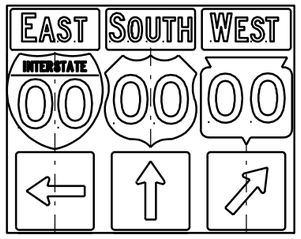
JV



J3-1



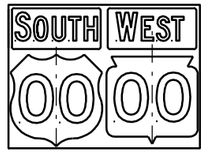
J3-2



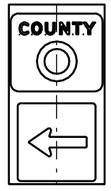
J3-3



J4-1



J4-2



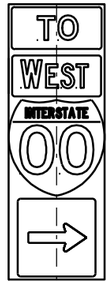
J13-1



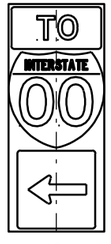
J12-1



J32-1



J33-1



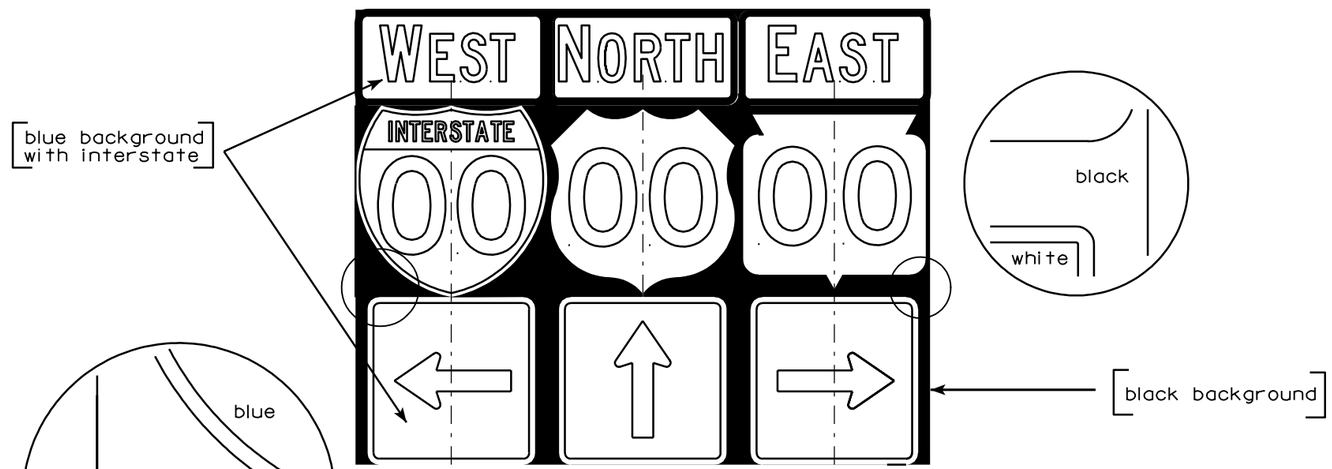
J23-1



J22-1

NOTES

1. Signs are Type II - Type H Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - Black Non-reflective
   Message - see Note 5
3. Message Series - See Note 5
4. Corners shall be square since base material is plywood.
5. The colors and message spacing on each marker shall be according to the applicable route marker panel specifications.
6. Certain marker heads require the component pieces to be the same color. As an example, all the components used with an M1-1 interstate marker shall be blue.
7. Single panel j-assemblies shall only be used with route marker heads that are same size. If the route marker heads are different size use multiple piece component.



ROUTE MARKERS & COMPONENTS IN TYPICAL ASSEMBLIES

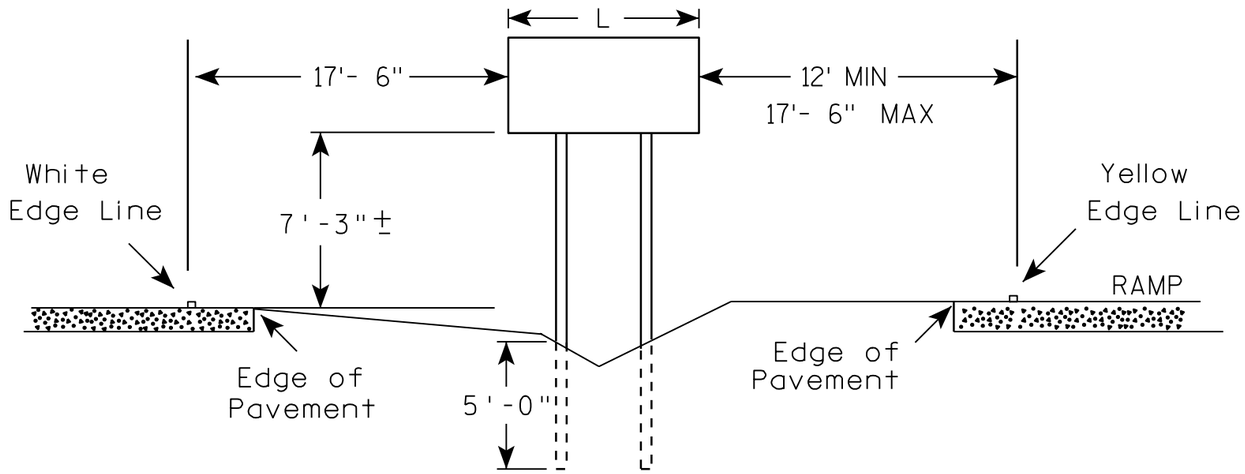
WISCONSIN DEPT OF TRANSPORTATION

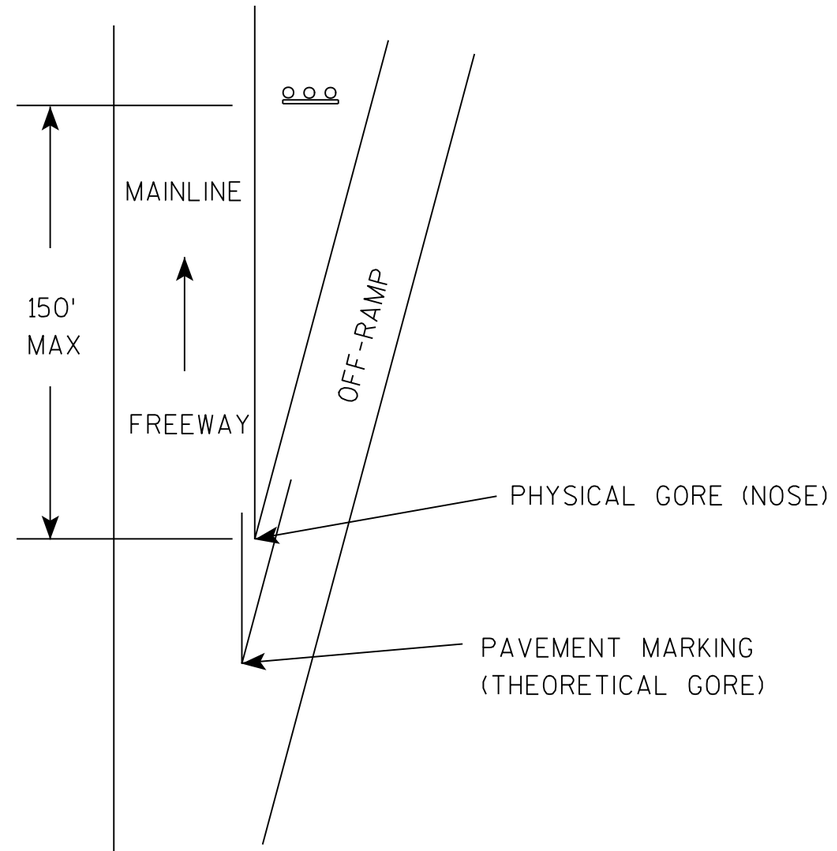
APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 8/26/05 PLATE NO. A2-1S.4

PROJECT NO:

SHEET NO: 798 E





GENERAL NOTES

1. The 150 foot distance from the physical gore (where pavement ends) will normally provide the offsets as shown.
2. If roadway geometrics permit, the sign may be closer than the 150 foot distance as long as the offsets are maintained.
3. At no time shall the location be greater than 150 feet. If the normal offsets cannot be maintained, they can be reduced to 6 feet from the edge of the paved shoulder (both freeway and ramp).
4. The offset from edge of sign to the yellow edge line on the ramp is shown as a minimum of 12 feet and a maximum of 17 feet, 6 inches. Preference is adhering to the maximum rather than the minimum dimension.
5. When L is equal to or exceeds 9 feet, use 3 posts as per A4-4.
6. The (∓) tolerance for the mounting height is 3 inches.

7

7

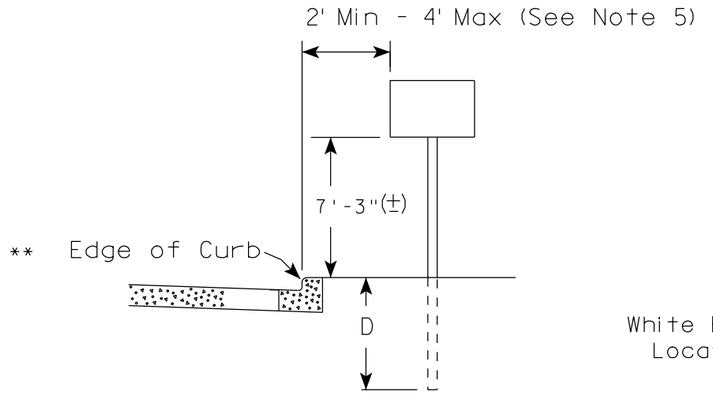
TYPICAL INSTALLATION
OF TYPE II SIGNS ON
WOOD POSTS IN GORE

WISCONSIN DEPT OF TRANSPORTATION

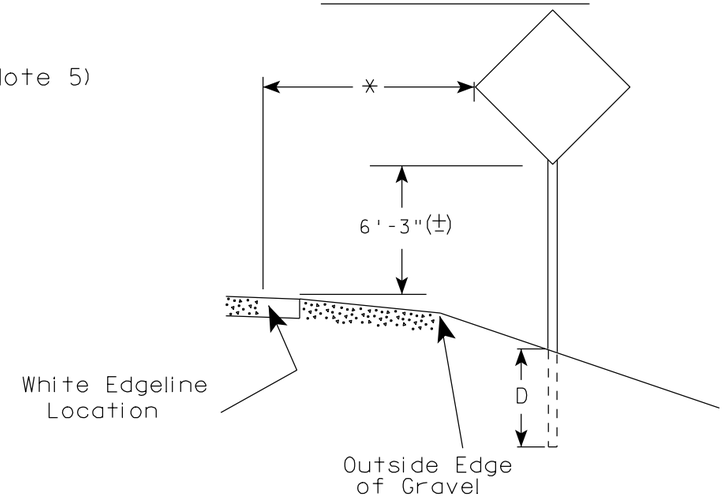
APPROVED Chester J Spang
for State Traffic Engineer

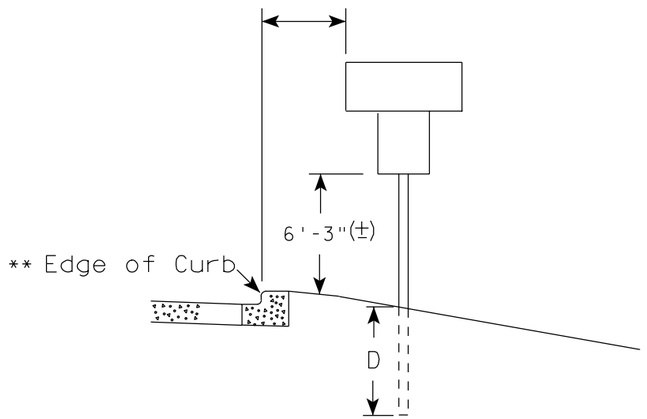
DATE 4/4/00 PLATE NO. A4-2.2

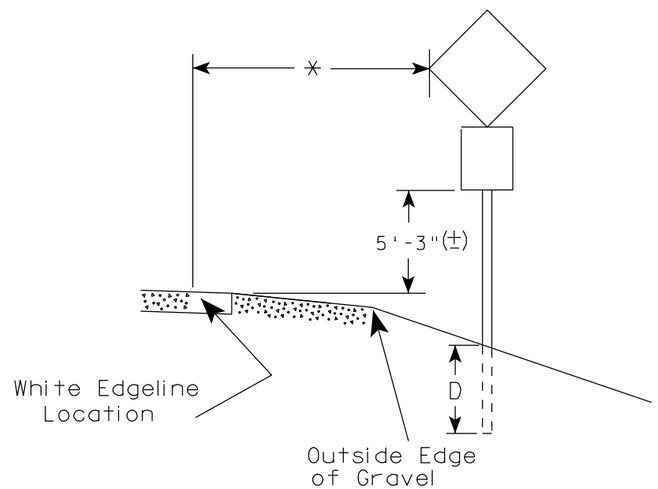
URBAN AREA



RURAL AREA (See Note 2)







GENERAL NOTES

1. Signs wider than 4 feet or larger than 20 sq. ft. shall be mounted on multiple posts. Refer to plate A4-4.
2. For expressways and freeways, mounting height is 7'- 3" (±) or 6'-3" (±) depending upon existence of a sub-sign.
3. Minimum mounting height for J assemblies (A4-5) is 7'-3" (±) or 6'-3" (±) per urban or rural detail respectively.
4. Minimum mounting height for signs mounted on traffic signal poles is 5'- 3" (±).
5. Offset distance shall be consistent with existing signs or consistent throughout length of project.
6. The (±) tolerance for mounting height is 3 inches.
7. Folding stop signs (R1-1F) shall be mounted at a height of 5'-3" (±) or as directed by the Engineer.
8. The Double Arrow sign (W12-1) shall be mounted at a height of 2'-3" (±). The Chevron sign (W1-8), Roundabout Chevron panel (W1-8A), Clearance Markers (W5-52), Mile Markers (D10 series) & End of Road Markers (W5-56 & W5-56A) shall be mounted at a height of 4'-3" (±).

POST EMBEDMENT DEPTH

Area of Sign Installation (Sq. Ft.)	D (Min)
20 or Less	4'
Greater than 20	5'

** The existence of curb and gutter does not in itself mandate the vertical clearance illustrated. That height is typically where there is sidewalk adjacent to the roadway or parking is permitted. This same criteria applies to mountable curb as well and measurement shall be taken from flow line.

* 6 feet from edge of a paved shoulder or 12 feet from the edge of pavement (edge line location) or 2 feet from outside edge of gravel, whichever is greater unless directed by project engineer.

TYPICAL INSTALLATION OF PERMANENT TYPE II SIGNS ON SINGLE POSTS

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

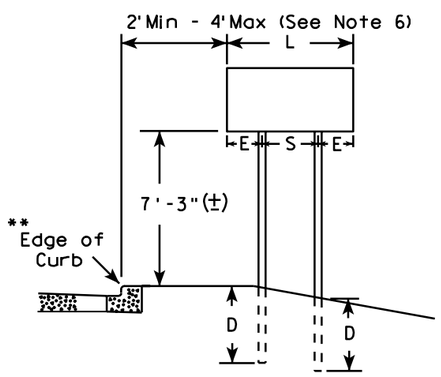
DATE 10/25/05 PLATE NO. A4-3.13

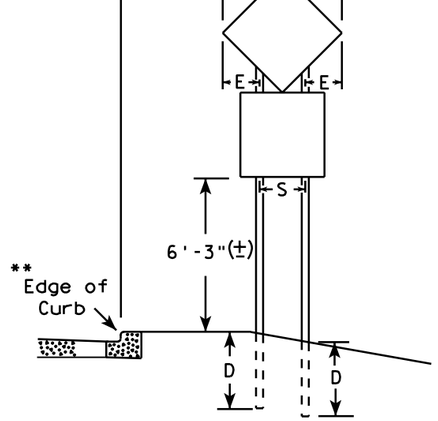
7

7

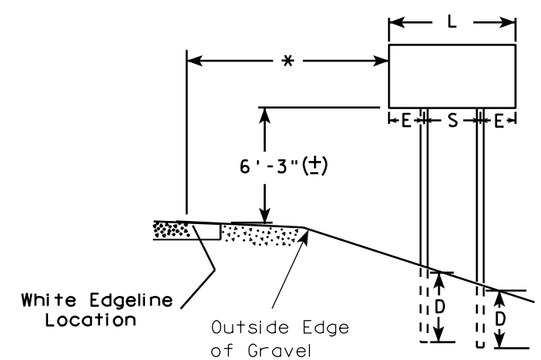
PROJECT NO:	HWY:	COUNTY:		SHEET NO: 800	E

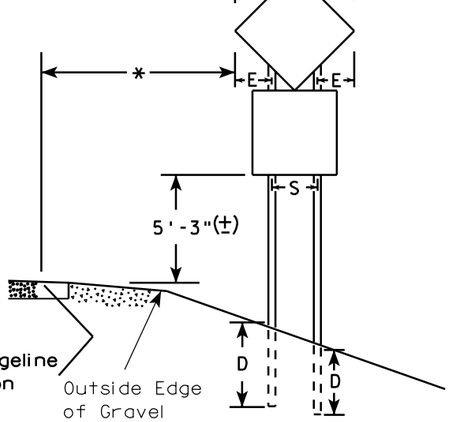
URBAN AREA

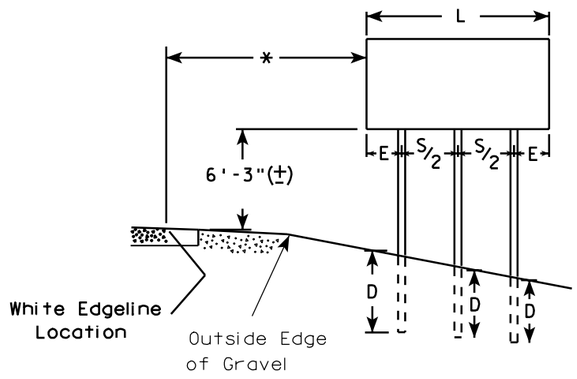




RURAL AREA (See Note 3)







GENERAL NOTES

1. For 3 post installations, spacing is S/2 and S must be greater than 7'-0".
2. For 4 post installations, spacing is S/3 and S must be greater than 10'-6".
3. For expressways and freeways, mounting height is 7'-3" (±) or 6'-3" (±) depending upon existence of sub-sign.
4. The (±) tolerance for mounting height is 3 inches.
5. Minimum mounting height for J assemblies (A4-5) is 7'-3" (±) or 6'-3" (±) per urban or rural detail respectively.
6. Offset distance shall be consistent with existing signs or consistent throughout length of project.
7. Folding stop signs (R1-1F) shall be mounted at a height of 5'-3" (±) or as directed by the engineer.
8. The Double Arrow sign (W12-1) shall be mounted at a height of 2'-3" (±). The Chevron sign (W1-8), Roundabout Chevron panel (W1-8A), Clearance Markers (W5-52), Mile Markers (D10 series) & End of Road Markers (W5-56 & W5-56A) shall be mounted at a height of 4"-3" (±).

* 6 feet from edge of a paved shoulder or 12 feet from the edge of pavement (edge line location) or 2 feet from outside edge of gravel, whichever is greater unless directed by project engineer.

** The existence of curb and gutter does not in itself mandate the vertical clearance illustrated. That height is typically where there is sidewalk adjacent to the roadway or parking is permitted. This same criteria applies to mountable curb as well and measurement shall be from the flow line.

DIAMOND SHAPED SIGNS		
L	S	E
Less than 60"	20"	L/2 - 10
60"--72"	32"	L/2 - 16
Greater than 72"	3 L/5	L/5

SIGN SHAPE OTHER THAN DIAMOND (Two Post Installations)		
L	S	E
Less than 60"	L-24"	12"
60" or more	3 L/5	L/5

POST EMBEDMENT DEPTH

Area of Sign Installation (Sq.Ft.)	D (Min)
20 or Less	4'
Greater than 20	5'

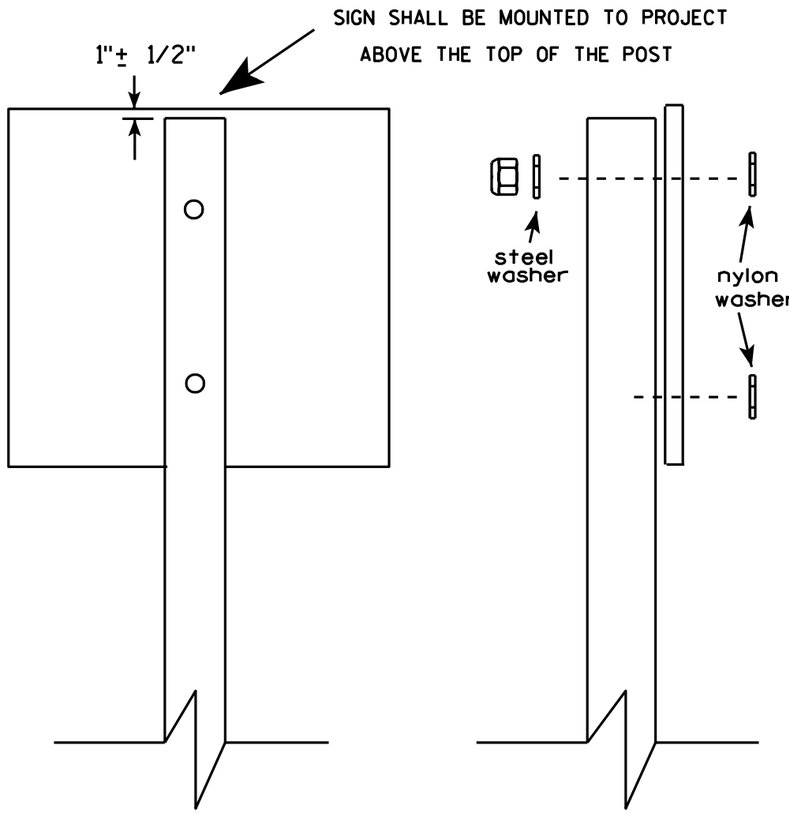
TYPICAL INSTALLATION
OF TYPE II SIGNS
ON MULTIPLE POSTS

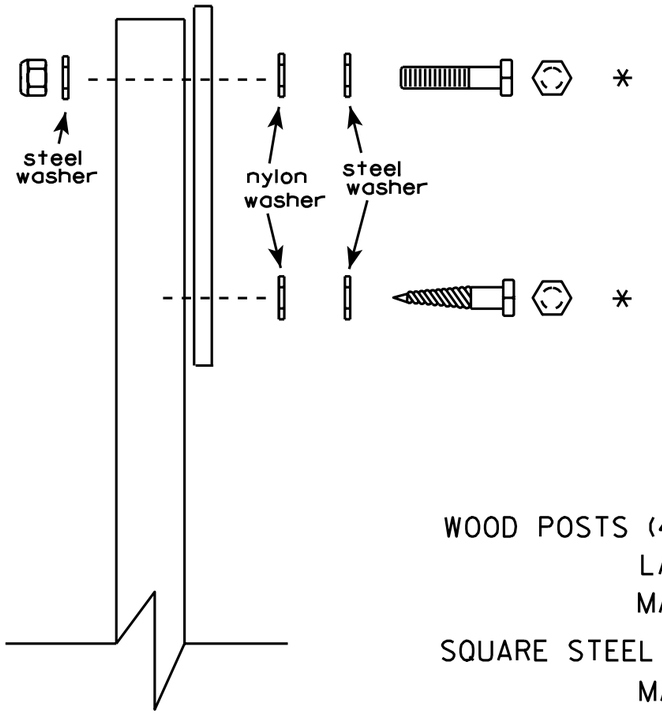
WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 10/17/05 PLATE NO. A4-4.8

PROJECT NO:	HWY:	COUNTY:		SHEET NO: 801	E





Nuts, bolts and lags used for mounting signs shall have hexagonal heads and shall be either :

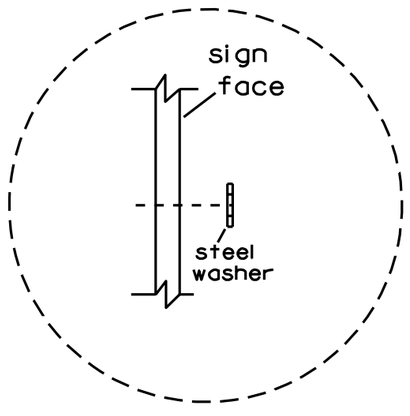
a. Hot dip or mechanically galvanized in accordance with ASTM Designation: A 153, Class D, or
b. Cadmium plated in accordance with ASTM Designation : B 766 TYPE 3, Class 12, or
c. Electro-galvanized in accordance with ASTM Designation : B 633, TYPE III, SC 3.

Threads on bolts and nuts shall be manufactured with sufficient allowance for the cadmium plate or galvanized coating to permit the nuts to run freely on the bolts.

WOOD POSTS (4" x 4" or 4" x 6")
LAG SCREWS - 3/8" X 3"
MACHINE BOLTS - 5/16" X 6-1/2" or 7" Length w/ nuts

SQUARE STEEL POSTS (2" x 2")
MACHINE BOLTS - 3/8" X 3-1/4" Length w/ nuts

WASHERS (ALL POSTS) -
1-1/4" O.D. X 3/8" I.D. X 1/16" STEEL
1-1/4" O.D. X 3/8" I.D. X .080 NYLON for all Type H signs.



Washer Placement when Sign Has Other Than Type H or Type F Face

* Two different fastening systems are shown for illustration purposes. On any individual sign, either one or the other system shall be used. Actual number of fasteners per sign varies with the sign area, but normally there are two. For a single post installation, all signs greater than 9 sq. ft. require the use of 3 fasteners.

ATTACHMENT OF SIGNS TO POSTS

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

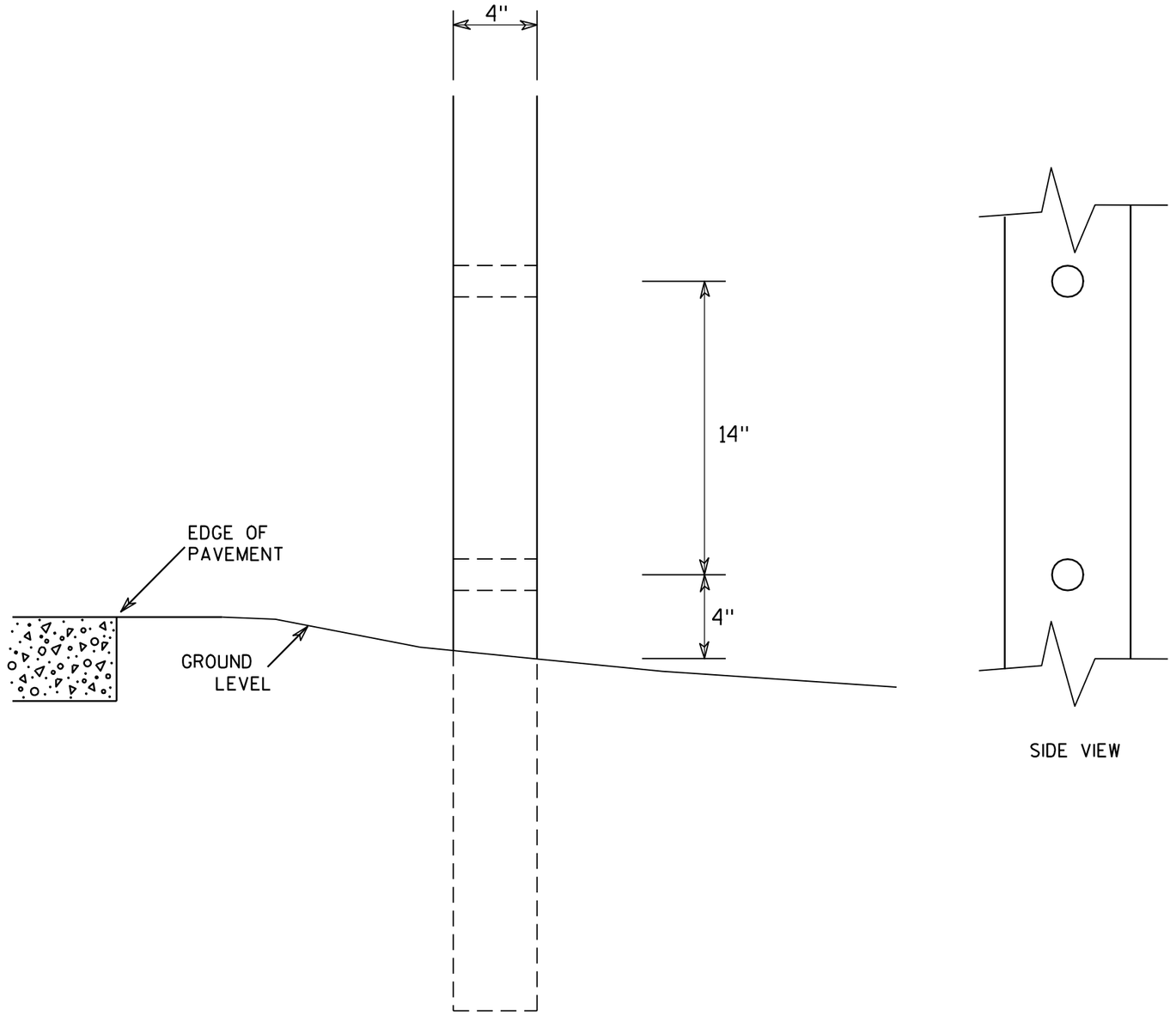
DATE 8/30/06 PLATE NO. A4-8.6

7

7

PROJECT NO:

SHEET NO: 802 E



SIDE VIEW

GENERAL NOTES

1. All 4 x 6 Wood Posts shall be modified by having two 1½" diameter holes drilled perpendicular to the roadway centerline.

7

7

4 X 6 WOOD POST MODIFICATIONS

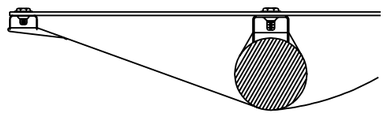
WISCONSIN DEPT OF TRANSPORTATION

APPROVED Chester J Spang
for State Traffic Engineer

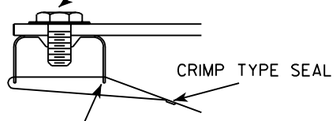
DATE 3/27/97 PLATE NO. A4-11.2

PROJECT NO:	HWY:	COUNTY:		SHEET NO: 803	E

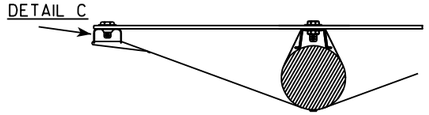
BRACE BANDING

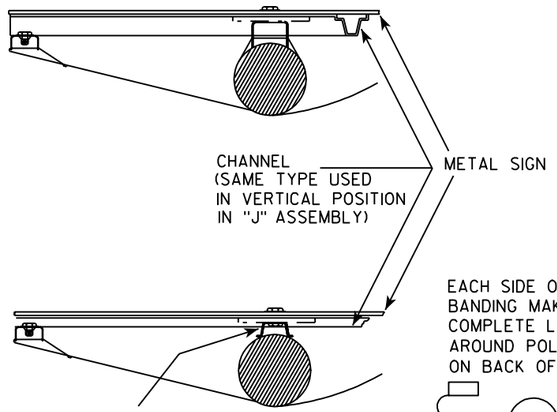


DETAIL C
CADMIUM PLATED STEEL BOLT
THROUGH BLACK BORDER

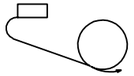


DETAIL C



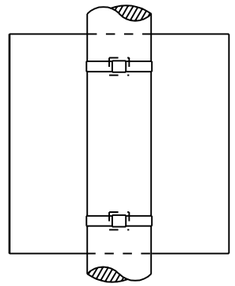


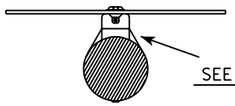
EACH SIDE OF BRACE
BANDING MAKES ONE
COMPLETE LOOP
AROUND POLE-SEAL
ON BACK OF POLE



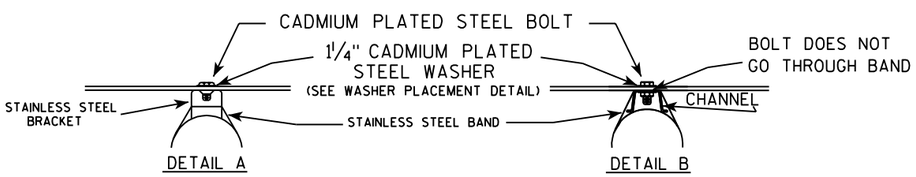
BRACKET BANDING

SINGLE SIGN





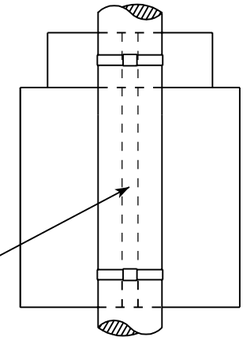
SEE DETAIL A



DETAIL A

DETAIL B

"J" ASSEMBLY

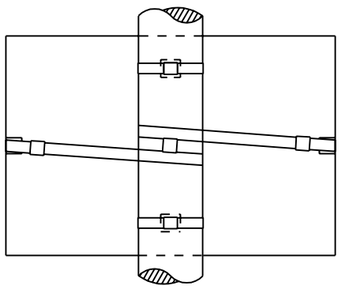


CHANNEL
SEE TYPICAL PANEL
INSTALLATION SHEET

SEE DETAIL B

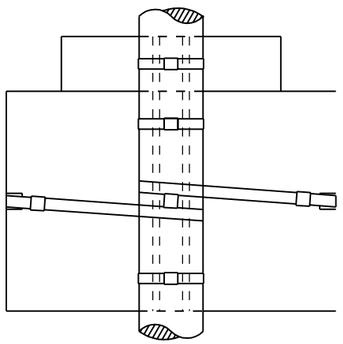
GENERAL NOTES

1. Signs 4' or greater in width shall have one brace band installed at the center of the sign.
2. Signs 3' or greater in height shall have three bracket bands installed. Signs less than 3' in height shall have two bracket bands installed.
3. Banding and assembly bracket shall be stainless steel. All bands shall be ¾" in width and 0.025" thickness.

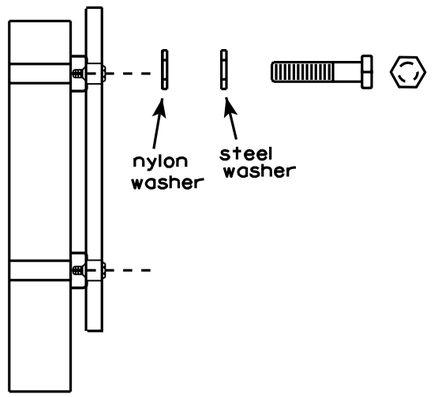


BRACE BANDING

BRACE BANDING SHALL BE TIGHTENED FIRMLY BUT NOT SO TIGHT AS TO APPRECIABLY CURVE FACE OF SIGN.



WASHER PLACEMENT



WASHERS (ALL POSTS) -
1-1/4" O.D. X 3/8" I.D. X 1/16" STEEL
1-1/4" O.D. X 3/8" I.D. X .080 NYLON
FOR ALL TYPE H SIGNS

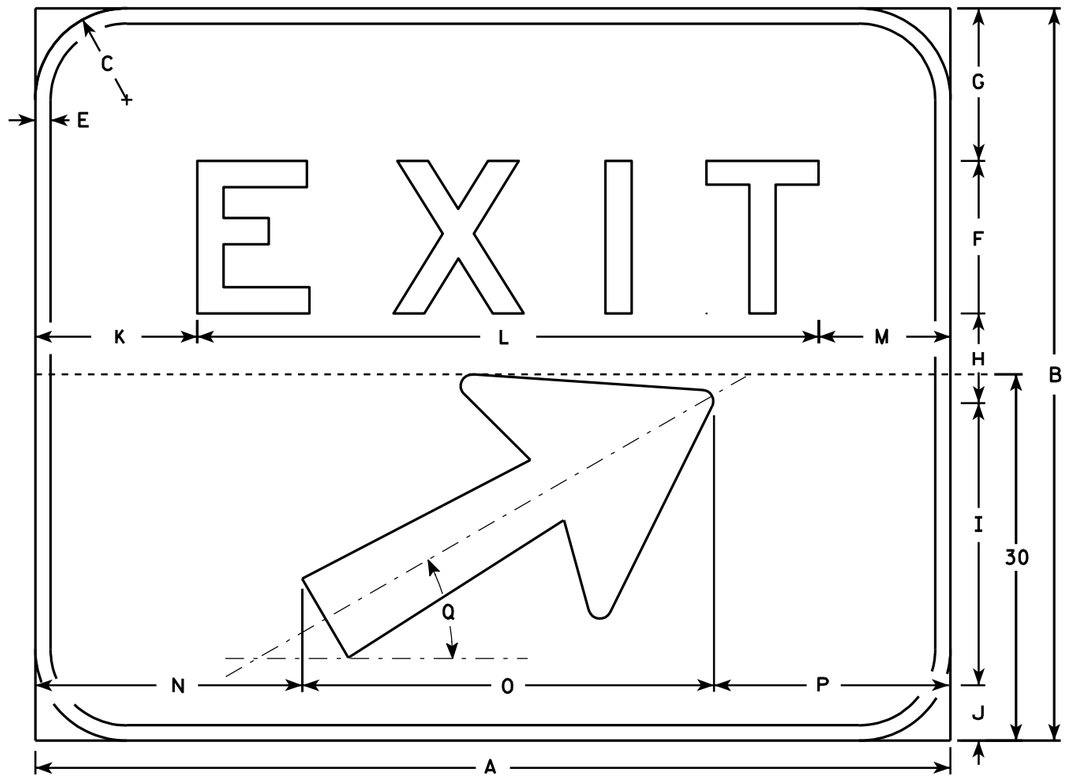
STANDARD SIGN
SIGN BANDING DETAILS

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 11/08/05 PLATE NO. A5-9.2

PROJECT NO:	HWY:	COUNTY:		SHEET NO: 804	E



E5-1

NOTES

1. Sign is Type II - Type H reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - Green
   Message - White (Type H reflective)
3. Message Series - E
4. Corners may be square or rounded but borders shall be rounded as shown.
5. Base material for this sign shall be plywood and shall be split into two seperate pieces for the 72 x 60 size as shown on the detail by the dashed line (----------).
6. Arrow is Type "A" from sign plate A1-1.
7. As per the Standard Spec's, this sign shall not have a vertical joint.

Metric equivalent for this sign is:

SIZE	
1	
2	
3	
4	1500 mm X 1200 mm
5	1800 mm X 1500 mm

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.	Area m2
1																												
2																												
3																												
4	60	48	6		1	10	10	5 7/8	18 1/2	3 5/8	10 5/8	40 3/4	8 5/8	17 1/2	27	15 1/2	30°										20.0	1.80
5	72	60	6		1	12	12	10	18 1/2	7 1/2	13 1/4	48 1/2	10 1/4	23 1/2	27	21 1/2	30°										30.0	2.70

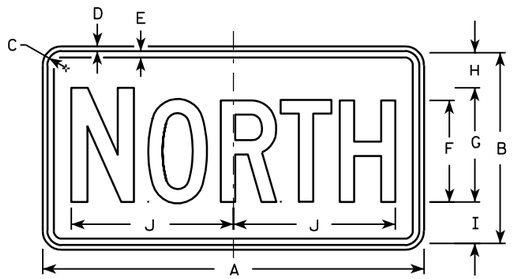
STANDARD SIGN
E5 - 1

WISCONSIN DEPT OF TRANSPORTATION

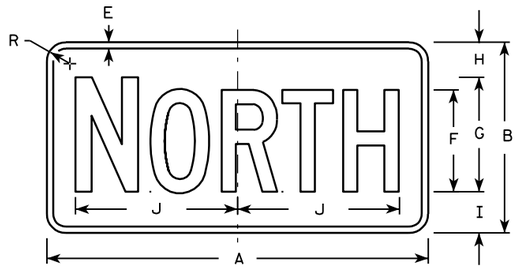
APPROVED Chester J Spang for State Traffic Engineer

DATE 6/22/00 PLATE NO. E5-1.8

PROJECT NO:	HWY:	COUNTY:		SHEET NO: 805	E



M3-1
MK3-1
MO3-1



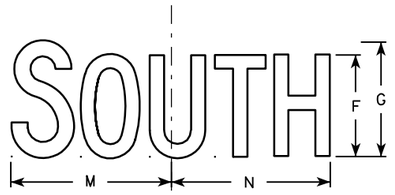
MB3-1
MG3-1
MM3-1*
MN3-1



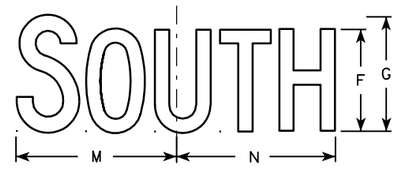
M3-2
MK3-2
MO3-2



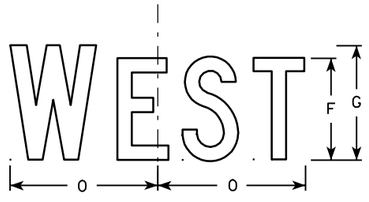
MB3-2
MG3-2
MM3-2*
MN3-2



M3-3
MK3-3
MO3-3



MB3-3
MG3-3
MM3-3*
MN3-3



M3-4
MK3-4
MO3-4



MB3-4
MG3-4
MM3-4*
MN3-4

Metric equivalent for this sign is:

SIZE	
1	
2	600 mm X 300 mm
3	750 mm X 375 mm
4	750 mm X 375 mm
5	750 mm X 375 mm

NOTES

1. All Signs Type II - See Note 5 - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - See note 5
   Message - See note 5
3. Message Series - C
4. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.
5. M3-1 thru M3-4 Background - White - Type H Reflective (Detour or temporary signs - Reflective)
   Message - Black
   MB3-1 thru MB3-4 Background - Blue
   Message - White - Type H Reflective (Detour or temporary signs - Reflective)
   MG3-1 thru MG3-4 Background - Green
   Message - White - Type H Reflective
   MK3-1 thru MK3-4 Background - Green
   Message - White - Type H Reflective
   MM3-1 thru MM3-4 Background - White - Type H Reflective
   Message - Green
   MN3-1 thru MN3-4 Background - Brown
   Message - White - Type H Reflective
   MO3-1 thru MO3-4 Background - Orange - Reflective
   Message - Black
6. Border shall be omitted on MM series.
7. Note the first letter of each direction is larger than the remainder of the message.

* See Note 6

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.	Area m2
1																												
2	24	12	1 1/8	3/8	1/2	6	7	2 1/4	2 3/4	10 1/4	7 7/8	8 3/8	10 1/4	9 3/4	8 3/4			1 1/2									2.00	0.18
3	30	15	1 1/8	3/8	1/2	8	9	2 3/4	3 1/4	12 3/4	10 3/8	11 1/8	12 5/8	12 1/2	11 5/8			1 1/2									3.13	0.28
4	30	15	1 1/8	3/8	1/2	8	9	2 3/4	3 1/4	12 3/4	10 3/8	11 1/8	12 5/8	12 1/2	11 5/8			1 1/2									3.13	0.28
5	30	15	1 1/8	3/8	1/2	8	9	2 3/4	3 1/4	12 3/4	10 3/8	11 1/8	12 5/8	12 1/2	11 5/8			1 1/2									3.13	0.28

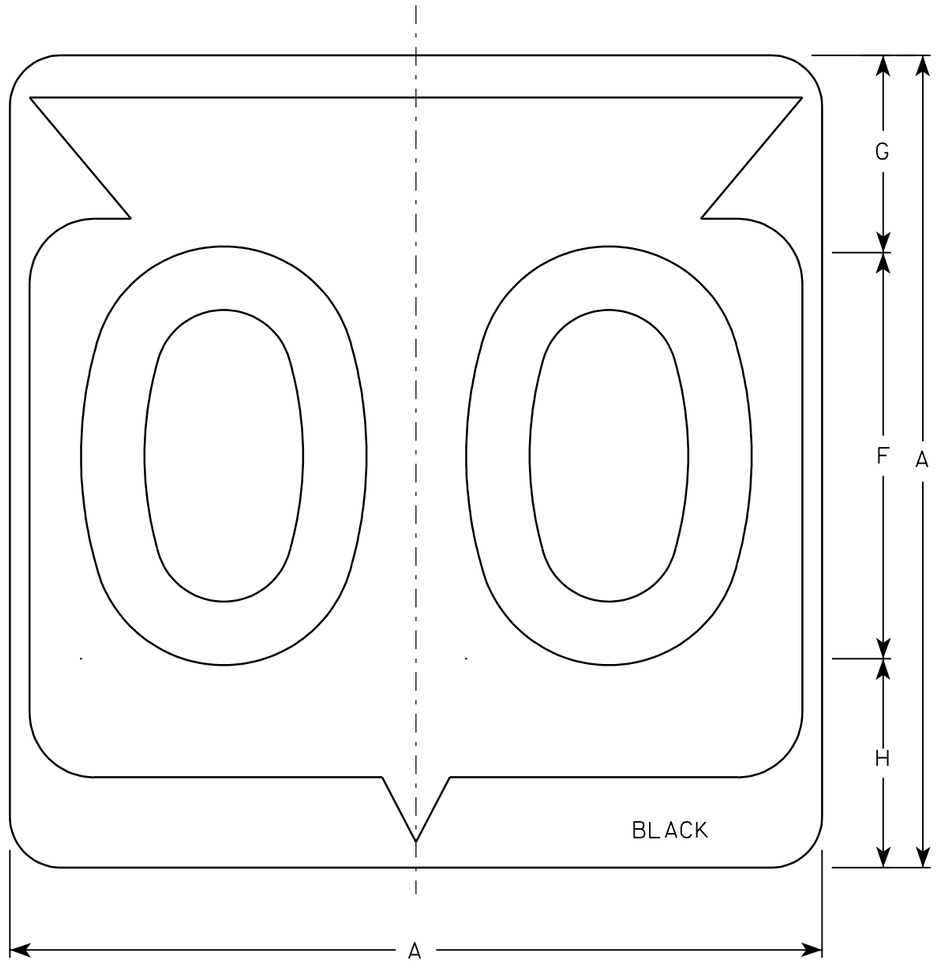
STANDARD SIGNS
M3-1 thur M3-4
SERIES

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Chester J Spang for State Traffic Engineer

DATE 3/20/02 PLATE NO. M3-1.10

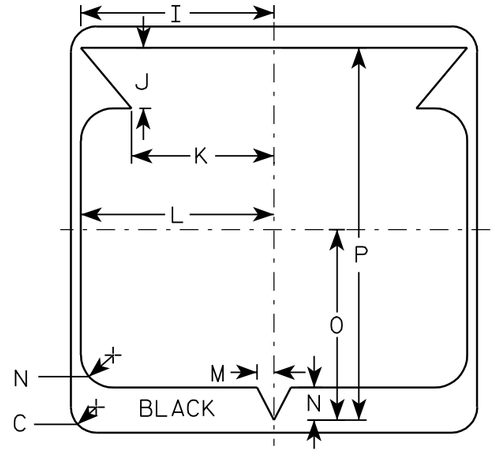
PROJECT NO:	HWY:	COUNTY:		SHEET NO: 806	E



M1-6

NOTES

1. Sign is Type II - See Note 6 - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - White & Black - See Note 6
   Message - Black
3. Message Series - See note 5
4. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.
5. Substitute appropriate Series numerals and adjust spacing as per plate A10-1.
6. Permanent Signs
   Background - Type H Reflective
   Detour or temporary Signs
   Background - Reflective



Metric equivalent for this sign is:

SIZE	
1	
2	600 mm X 600 mm
3	900 mm X 900 mm
4	900 mm X 900 mm
5	900 mm X 900 mm

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.	Area m2
1																												
2	24		1 1/2			12	5 1/2	6 1/2	10 1/4	2 1/2	8 7/8	11 1/2	1	1 7/8	11 1/4	21 7/8											4.0	.36
3	36		2 1/4			18	8 3/4	9 1/4	15 3/8	5 3/8	12 5/8	17 1/8	1 1/2	2 7/8	16 7/8	33											9.0	.81
4	36		2 1/4			18	8 3/4	9 1/4	15 3/8	5 3/8	12 5/8	17 1/8	1 1/2	2 7/8	16 7/8	33											9.0	.81
5	36		2 1/4			18	8 3/4	9 1/4	15 3/8	5 3/8	12 5/8	17 1/8	1 1/2	2 7/8	16 7/8	33											9.0	.81

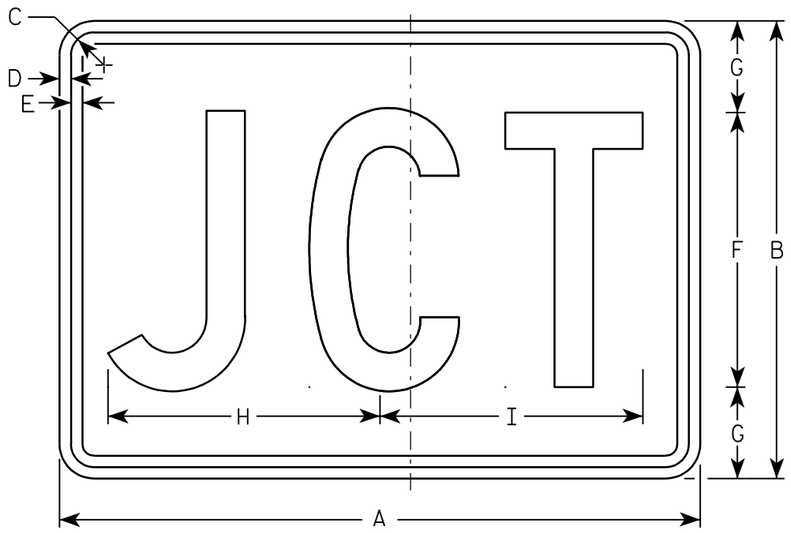
STATE ROUTE MARKER
M1-6 FOR ASSEMBLIES

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Chester J Spang for State Traffic Engineer

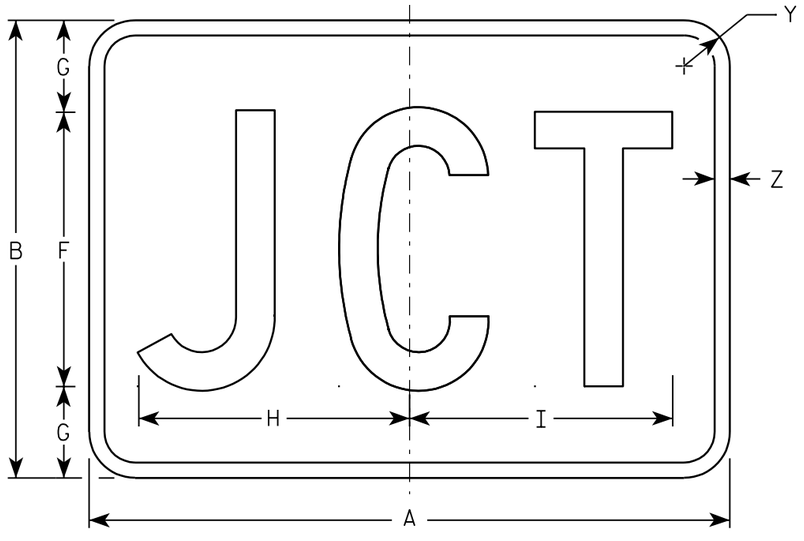
DATE 3/20/02 PLATE NO. M1-6.9

PROJECT NO:	HWY:	COUNTY:		SHEET NO: 807	E



M2-1
MK2-1
MM2-1*
MR2-1

*See Note 6



MB2-1
MG2-1
MN2-1

NOTES

1. Sign is Type II - See Note 5 - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - See note 5
   Message - See note 5
3. Message Series - C
4. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.
5. M2-1 Background - White - Type H Reflective
   (Detour or temporary Signs - Reflective)
   Message - Black
   MB2-1 Background - Blue
   Message - White - Type H Reflective
   (Detour or temporary Signs - Reflective)
   MG2-1 Background - Green
   Message - White - Type H Reflective
   MK2-1 Background - Green
   Message - White - Type H Reflective
   MM2-1 Background - White - Type H Reflective
   Message - Green
   MN2-1 Background - Brown
   Message - White - Type H Reflective
   MR2-1 Background - Brown
   Message - Yellow - Type H Reflective
6. Border shall be omitted on MM2-1.

Metric equivalent for this sign is:

SIZE	
1	
2	525 mm X 375 mm
3	750 mm X 525 mm
4	750 mm X 525 mm
5	750 mm X 525 mm

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.	Area m2
1																												
2	21	15	1 1/8	3/8	3/8	9	3	8 7/8	8 5/8																1 1/2	1/2	2.20	0.20
3	30	21	1 1/8	3/8	3/8	13	4	12 7/8	12 3/8																1 1/2	1/2	4.40	0.20
4	30	21	1 1/8	3/8	3/8	13	4	12 7/8	12 3/8																1 1/2	1/2	4.40	0.20
5	30	21	1 1/8	3/8	3/8	13	4	12 7/8	12 3/8																1 1/2	1/2	4.40	0.20

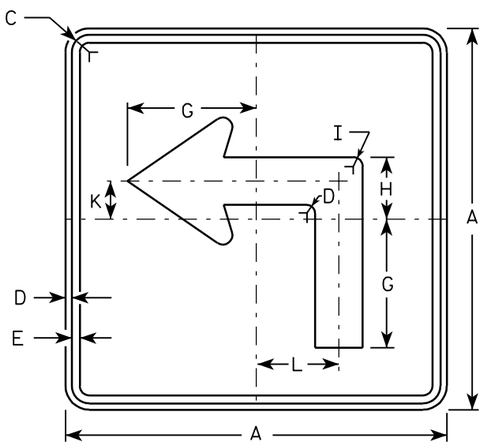
STANDARD SIGN
M2-1

WISCONSIN DEPT OF TRANSPORTATION

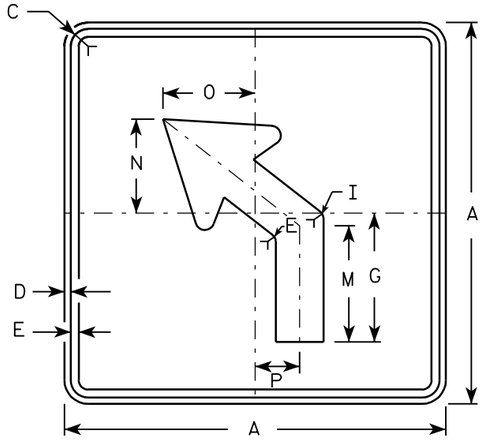
APPROVED Chester J Spang
for State Traffic Engineer

DATE 3/20/02 PLATE NO. M2-1.9

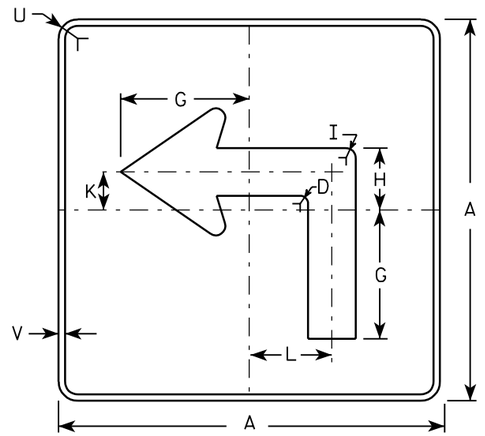
PROJECT NO:	HWY:	COUNTY:		SHEET NO: 808	E



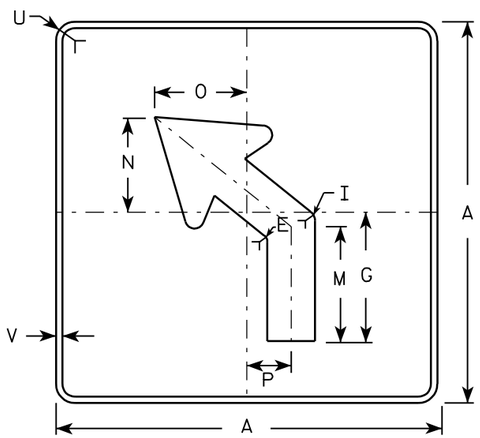
M5-1L
MK5-1L
MM5-1L (See Note 7)
MO5-1L
MR5-1L



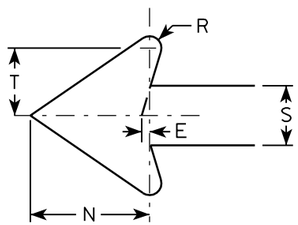
M5-2L
MK5-2L
MM5-2L (See Note 7)
MO5-2L
MR5-2L



MB5-1L
MG5-1L
MN5-1L



MB5-2L
MG5-2L
MN5-2L



NOTES

1. Signs are Type II - See Note 4 - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - See note 4
   Message - See note 4
3. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.
4. M5-1 and M5-2 Background - White - Type H Reflective (Detour or temporary Signs - Reflective) Message - Black
   MB5-1 and MB5-2 Background - Blue Message - White - Type H Reflective (Detour or temporary Signs - Reflective)
   MG5-1 and MG5-2 Background - Green Message - White - Type H Reflective
   MK5-1 and MK5-2 Background - Green Message - White Type H Reflective
   MM5-1 and MM5-2 Background - White - Type H Reflective Message - Green
   MN5-1 and MN5-2 Background - Brown Message - White - Type H Reflective
   MO5-1 and MO5-2 Background - Orange - Reflective Message - Black
   MR5-1 and MR5-2 Background - Brown Message - Yellow - Type H Reflective
5. M5-1R same as M5-1L except arrow points right.
6. M5-2R same as M5-2L except arrow tilts right.
7. Border shall be omitted on MM series.

Metric equivalent for this sign is:

SIZE	
1	
2	525 mm X 525 mm
3	750 mm X 750 mm
4	750 mm X 750 mm
5	750 mm X 750 mm

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.	Area m2
1																												
2	21		1 1/8	3/8	3/8		7	3 3/8	5/8		2 1/8	4 1/2	6 3/8	5 1/4	5	2 1/2		1/2	2 5/8	3	1 1/2	1/2					3.06	0.28
3	30		1 3/8	1/2	5/8		10 1/8	4 7/8	7/8		3	6 1/2	9 1/8	7 1/2	7 1/4	3 1/2		3/4	3 3/4	4 1/4	1 7/8	1/2					6.25	0.56
4	30		1 3/8	1/2	5/8		10 1/8	4 7/8	7/8		3	6 1/2	9 1/8	7 1/2	7 1/4	3 1/2		3/4	3 3/4	4 1/4	1 7/8	1/2					6.25	0.56
5	30		1 3/8	1/2	5/8		10 1/8	4 7/8	7/8		3	6 1/2	9 1/8	7 1/2	7 1/4	3 1/2		3/4	3 3/4	4 1/4	1 7/8	1/2					6.25	0.56

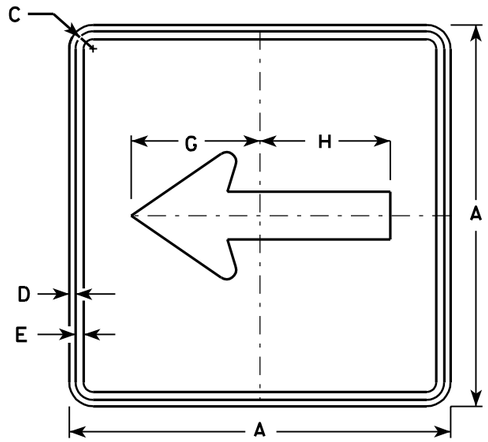
STANDARD SIGN
M5-1 & M5-2

WISCONSIN DEPT OF TRANSPORTATION

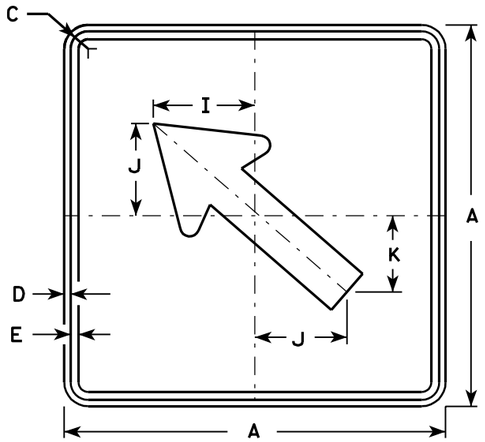
APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 2/03/03 PLATE NO. M5-1.10

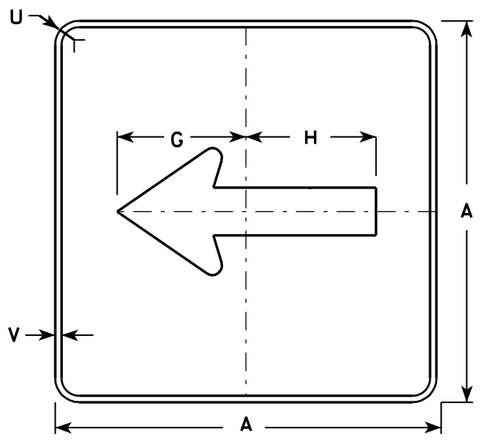
PROJECT NO:	HWY:	COUNTY:		SHEET NO: 809	E



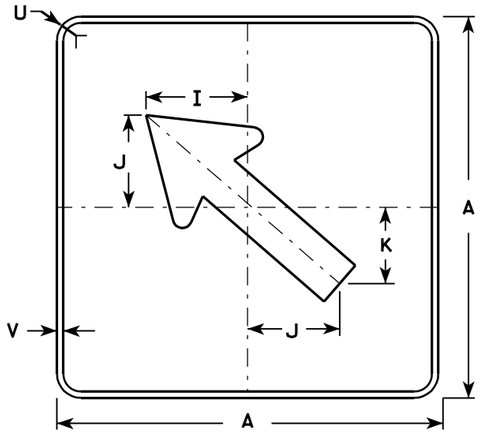
M6-1
MK6-1
MM6-1 (See Note 5)
MO6-1
MR6-1



M6-2
MK6-2
MM6-2 (See Note 5)
MO6-2
MR6-2



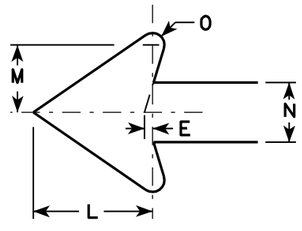
MB6-1
MG6-1
MN6-1



MB6-2
MG6-2
MN6-2

NOTES

1. Signs are Type II - See Note 4 - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - See note 4
   Message - See note 4
3. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.
4. M6-1 and M6-2 Background - White - Type H Reflective (Detour or temporary Signs - Reflective) Message - Black
   MB6-1 and MB6-2 Background - Blue Message - White - Type H Reflective (Detour or temporary Signs - Reflective)
   MG6-1 and MG6-2 Background - Green Message - White - Type H Reflective
   MK6-1 and MK6-2 Background - Green Message - White - Type H Reflective
   MM6-1 and MM6-2 Background - White - Type H Reflective Message - Green
   MN6-1 and MN6-2 Background - Brown Message - White - Type H Reflective
   MO6-1 and MO6-2 Background - Orange - Reflective Message - Black
   MR6-1 and MR6-2 Background - Brown Message - Yellow - Type H Reflective
5. Border shall be omitted on MM series.



Metric equivalent for this sign is:

SIZE	
1	
2	525 mm X 525 mm
3	750 mm X 750 mm
4	750 mm X 750 mm
5	750 mm X 750 mm

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.	Area m2
1																												
2	21		1 1/8	3/8	3/8		7 1/2	7 1/8	5 5/8	5	4 1/4	5 1/4	3	2 5/8	1/2						1 1/2	1/2					3.06	0.28
3	30		1 3/8	1/2	5/8		10 3/4	10 1/4	8	7 1/4	6	7 1/2	4 1/4	3 3/4	3/4						1 7/8	1/2					6.25	0.56
4	30		1 3/8	1/2	5/8		10 3/4	10 1/4	8	7 1/4	6	7 1/2	4 1/4	3 3/4	3/4						1 7/8	1/2					6.25	0.56
5	30		1 3/8	1/2	5/8		10 3/4	10 1/4	8	7 1/4	6	7 1/2	4 1/4	3 3/4	3/4						1 7/8	1/2					6.25	0.56

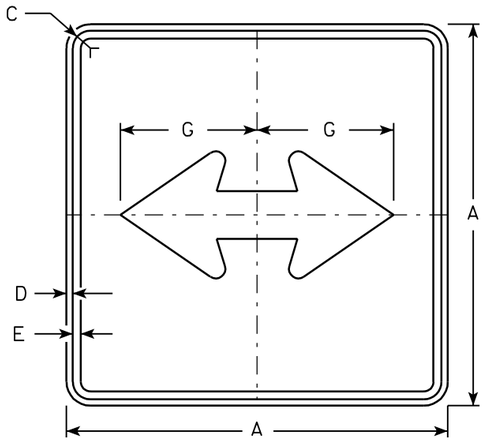
STANDARD SIGN M6-1 & M6-2 SERIES

WISCONSIN DEPT OF TRANSPORTATION

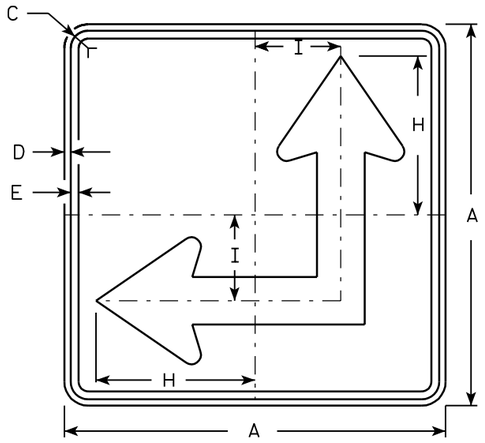
APPROVED Chester J Spong for State Traffic Engineer

DATE 3/20/02 PLATE NO. M6-1.11

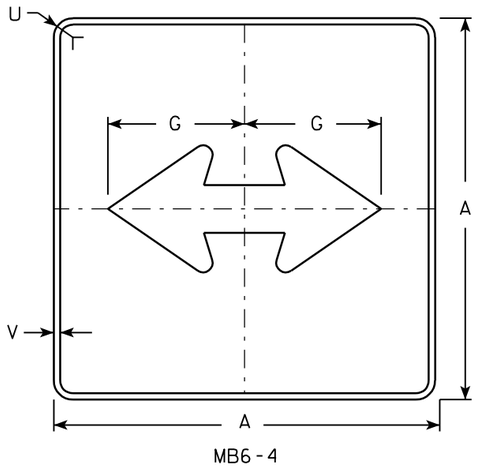
PROJECT NO:	HWY:	COUNTY:		SHEET NO: 810	E



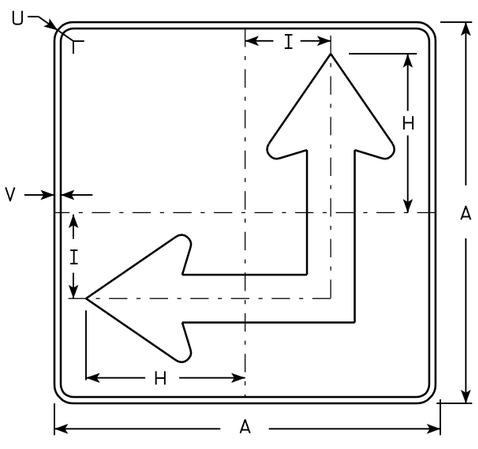
M6-4
MK6-4
MM6-4 (See Note 5)
MO6-4
MR6-4



M6-6
MK6-6
MM6-6 (See Note 5)
MO6-6
MR6-6



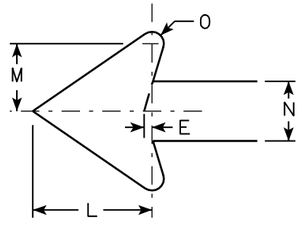
MB6-4
MG6-4
MN6-4



MB6-6
MG6-6
MN6-6

NOTES

1. Signs are Type II - See Note 4 - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - See Note 4
   Message - See Note 4
3. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.
4. M6-4 and M6-6 Background - White - Type H Reflective (Detour or temporary Signs - Reflective)
   Message - Black
   MB6-4 and MB6-6 Background - Blue
   Message - White - Type H Reflective (Detour or temporary Signs - Reflective)
   MG6-4 and MG6-6 Background - Green
   Message - White - Type H Reflective
   MK6-4 and MK6-6 Background - Green
   Message - White - Type H Reflective
   MM6-4 and MM6-6 Background - White - Type H Reflective
   Message - Green
   MN6-4 and MN6-6 Background - Brown
   Message - White - Type H Reflective
   MO6-4 and MO6-6 Background - Orange - Reflective
   Message - Black
   MR6-4 and MR6-6 Background - Brown
   Message - Yellow - Type H Reflective
5. M6-6R same as M6-6L except arrow points ahead and right.
6. Border shall be omitted on MM series.



Metric equivalent for this sign is:

SIZE	
1	
2	525 mm X 525 mm
3	750 mm X 750 mm
4	750 mm X 750 mm
5	750 mm X 750 mm

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.	Area m2
1																												
2	21		1 1/8	3/8	3/8		7 1/2	8 3/4	4 1/4			5 1/4	3	2 5/8	1/2						1 1/2	1/2					3.06	0.28
3	30		1 3/8	1/2	5/8		10 3/4	12 1/2	6 3/4			7 1/2	4 1/4	3 3/4	3/4						1 7/8	1/2					6.25	0.56
4	30		1 3/8	1/2	5/8		10 3/4	12 1/2	6 3/4			7 1/2	4 1/4	3 3/4	3/4						1 7/8	1/2					6.25	0.56
5	30		1 3/8	1/2	5/8		10 3/4	12 1/2	6 3/4			7 1/2	4 1/4	3 3/4	3/4						1 7/8	1/2					6.25	0.56

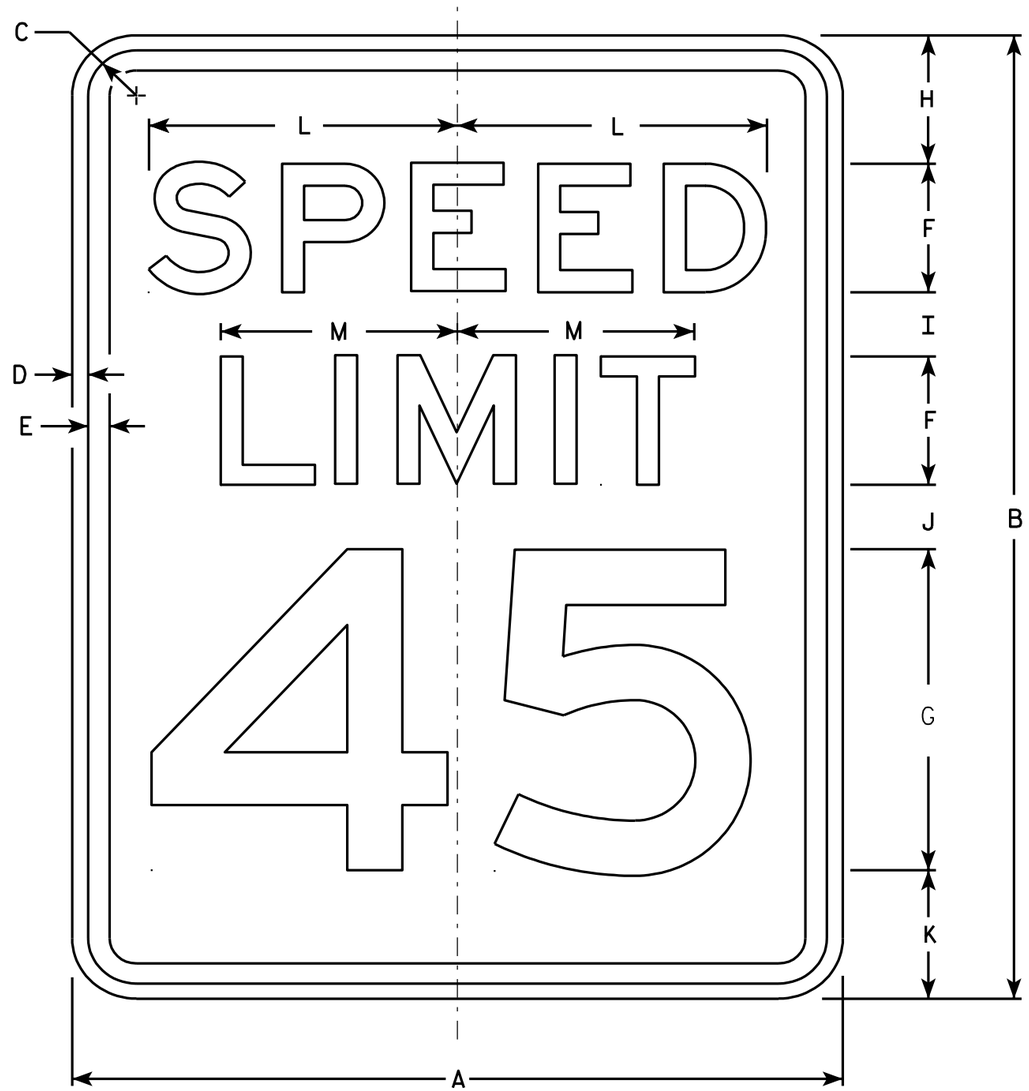
STANDARD SIGN M6-4 & M6-6 SERIES

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Chester J Spang for State Traffic Engineer

DATE 3/20/02 PLATE NO. M6-4.6

PROJECT NO:	HWY:	COUNTY:		SHEET NO: 811	E



R2-1

NOTES

1. Sign is Type II - Type H Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - White
   Message - Black
3. Message Series - E
4. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.
5. Substitute appropriate numerals and optically adjust spacing to achieve proper balance.

Metric equivalent for this sign is:

SIZE	
1	450 mm X 600 mm
2	600 mm X 750 mm
3	900 mm X 1200 mm
4	900 mm X 1200 mm
5	1200 mm X 1500 mm

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.	Area m2
1	18	24	1 1/8	3/8	1/2	3	8	3	2	2	3	7 1/4	5 1/2														3.0	.28
2	24	30	1 1/8	3/8	1/2	4	10	3	2 1/4	3 3/8	3 3/8	9 5/8	7 3/8														5.0	.46
3	36	48	1 3/8	1/2	5/8	6	14	6	5	5	6	14 3/8	11														12.0	1.11
4	36	48	1 3/8	1/2	5/8	6	14	6	5	5	6	14 3/8	11														12.0	1.11
5	48	60	2 1/4	3/4	1	8	20	6	4 1/2	6 3/4	6 3/4	19 1/4	14 5/8														20.0	1.86

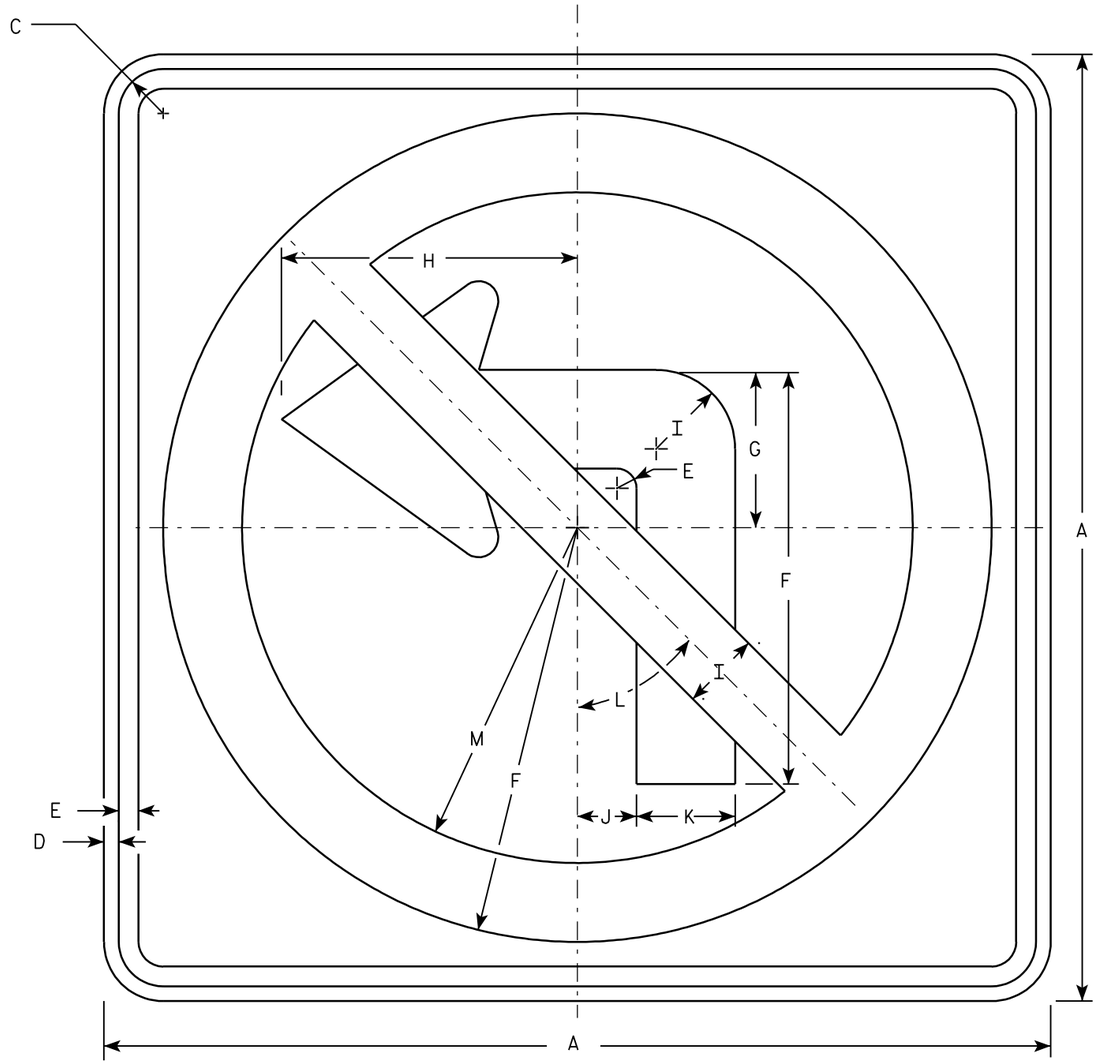
STANDARD SIGN
R2-1

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 7/05/05 PLATE NO. R2-1.12

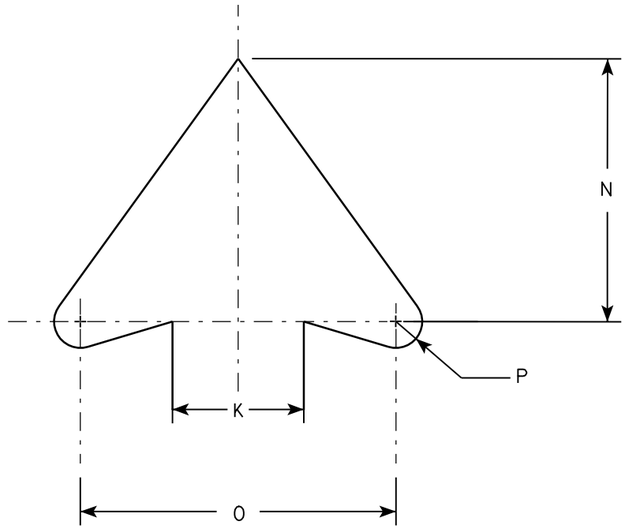
PROJECT NO: | HWY: | COUNTY: | SHEET NO: 812 | E



R3-2

NOTES

1. Sign is Type II - Type H Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - White
   Message - See note 4
3. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.
4. Border & Arrow are non reflective black, the circle with diagonal bar is reflective red.



ARROW DETAIL

Metric equivalent for this sign is:

SIZE	
1	600 mm X 600 mm
2	600 mm X 600 mm
3	750 mm X 750 mm
4	900 mm X 900 mm
5	1200 mm X 1200 mm

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.	Area m2
1	24		1 1/8	3/8	1/2	10 1/2	4	7 1/2	2	1 1/2	2 1/2	45°	8 1/2	5	6	1/2											4.0	0.36
2	24		1 1/8	3/8	1/2	10 1/2	4	7 1/2	2	1 1/2	2 1/2	45°	8 1/2	5	6	1/2											4.0	0.36
3	30		1 3/8	1/2	5/8	13 1/8	5	9 1/2	2 1/2	1 7/8	3 1/8	45°	10 5/8	6 1/4	7 1/2	5/8											6.25	0.56
4	36		1 5/8	5/8	3/4	15 3/4	6	11 1/4	3	2 1/4	3 3/4	45°	12 3/4	7 1/2	9	3/4											9.0	0.81
5	48		2 1/4	3/4	1	21	8	15	4	3	5	45°	17	10	12	1											16.0	1.44

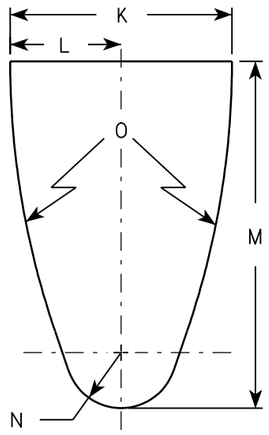
STANDARD SIGN
R3-2

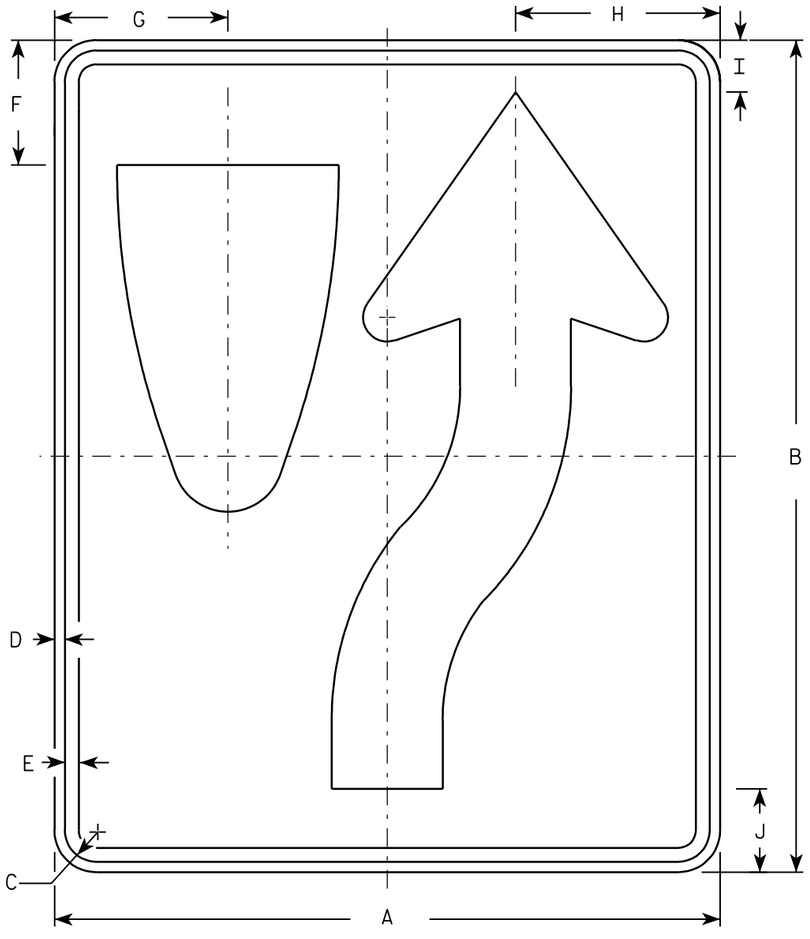
WISCONSIN DEPT OF TRANSPORTATION

APPROVED Chester J Spanje for State Traffic Engineer

DATE 2/01/02 PLATE NO. R3-2.9

PROJECT NO:	HWY:	COUNTY:		SHEET NO: 813	E

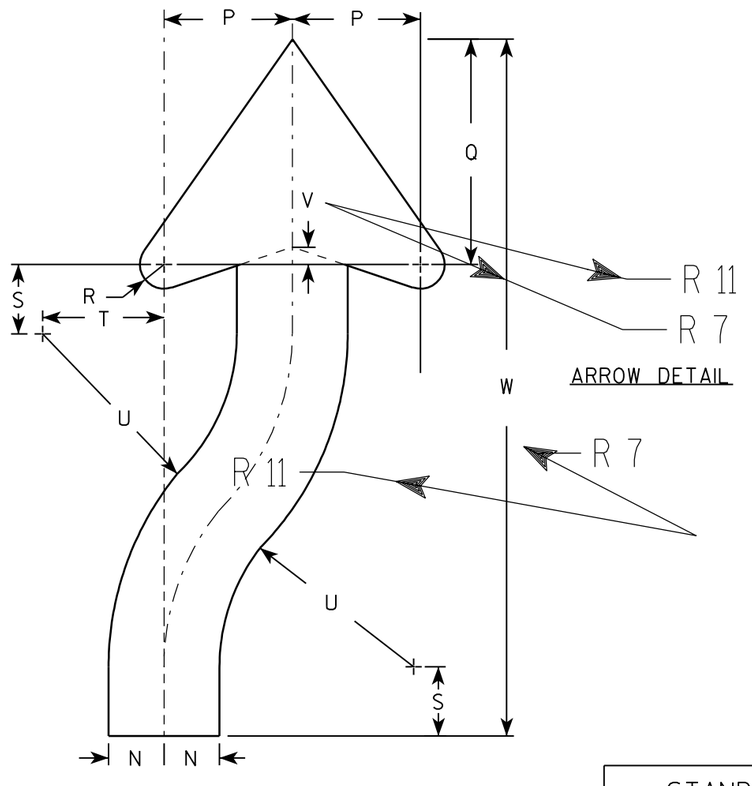




R4-7

NOTES

1. Sign is Type II - Type H Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition. material is plywood but borders shall be rounded
2. Color:
   Background - White
   Message - Black
3. Corners may be square or rounded when base as shown. When base material is metal, the corners and borders shall be rounded.
4. R4-8 is the same as R4-7 except Legend is reversed.



ARROW DETAIL

Metric equivalent for this sign is:

SIZE	
1	450 mm X 600 mm
2	600 mm X 750 mm
3	900 mm X 1200 mm
4	900 mm X 1200 mm
5	900 mm X 1200 mm

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.	Area m2
1	18	24	1 1/8	3/8	1/2	3 3/8	4 3/4	5 1/2	1 3/8	2 1/4	6	3	9 3/8	1 1/2	22 1/2	3 1/2	6 1/8	5/8	1 7/8	3 1/4	6 3/4	1/2	20 3/8				3.0	.27
2	24	30	1 1/8	3/8	1/2	4 1/2	6 1/4	7 3/8	1 7/8	3	8	4	12 1/2	2	30	4 5/8	8 1/8	7/8	2 1/2	4 3/8	9	5/8	25 1/8				5.0	.45
3	36	48	1 3/4	1/2	5/8	6 3/4	9 3/8	11 1/8	2 7/8	4 1/2	12	6	18 3/4	3	45	6 7/8	12 1/4	1 1/4	3 3/4	6 5/8	13 1/2	1	40 3/4				12.0	1.08
4	36	48	1 3/4	1/2	5/8	6 3/4	9 3/8	11 1/8	2 7/8	4 1/2	12	6	18 3/4	3	45	6 7/8	12 1/4	1 1/4	3 3/4	6 5/8	13 1/2	1	40 3/4				12.0	1.08
5	48	60	2 1/4	3/4	1	9	12 1/2	14 3/4	3 3/4	6	16	8	25	4	60	9 1/4	16 1/4	1 5/8	5	8 3/4	18	1 1/4	50 1/4				20.0	1.08

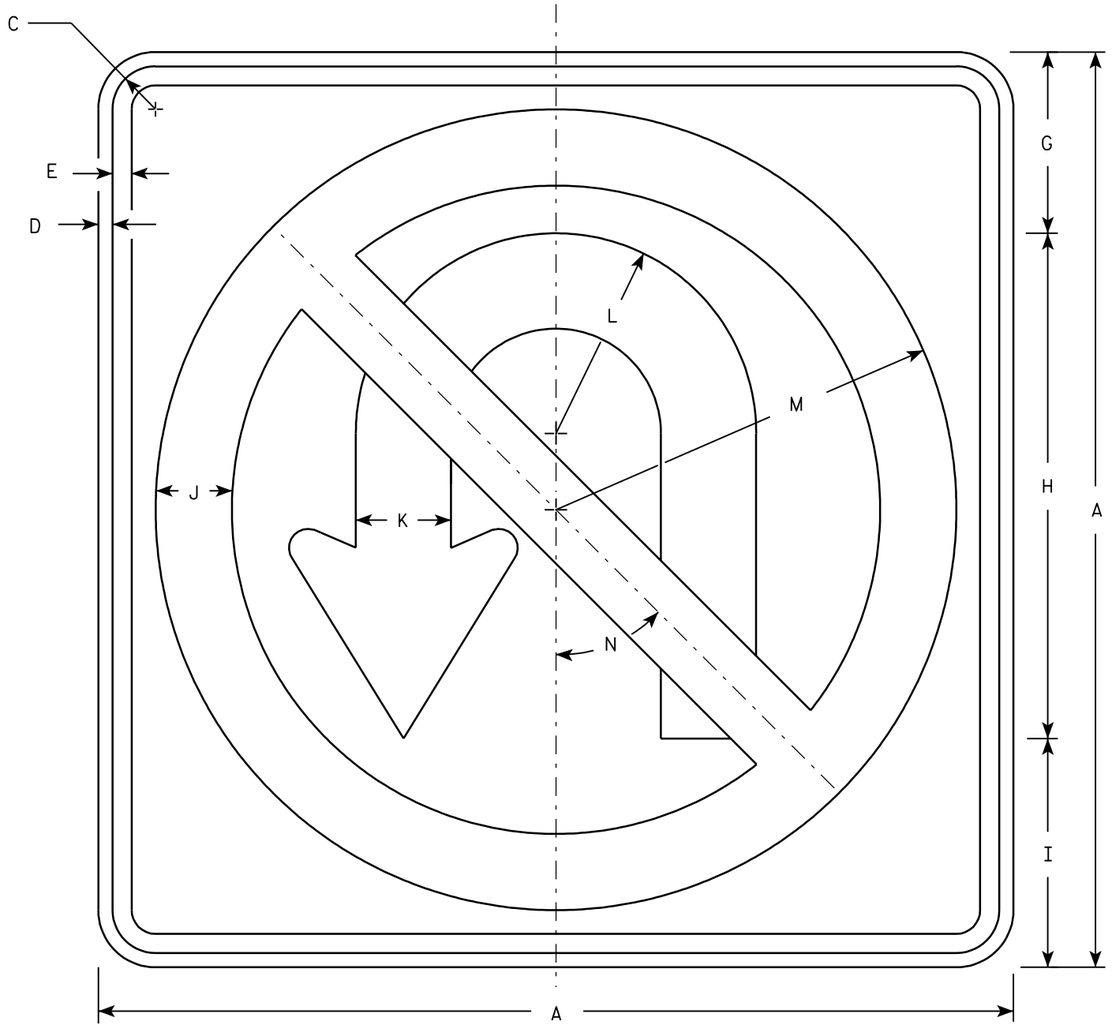
STANDARD SIGN
R4-7 & R4-8

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Chester J Spang for State Traffic Engineer

DATE 2/6/02 PLATE NO. R4-7.7

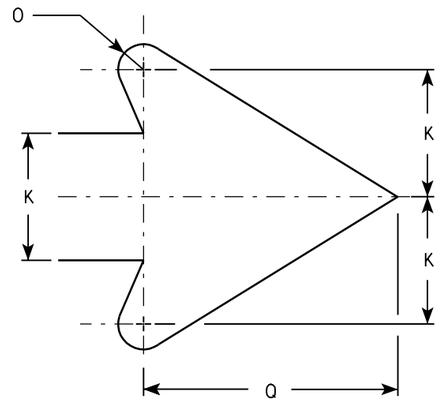
PROJECT NO:	HWY:	COUNTY:		SHEET NO: 814	E



R3-4

NOTES

1. Sign is Type II - Type H Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - White
   Message - See note 4
3. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.
4. Border & Arrow are non reflective black, the circle with diagonal bar is reflective red.



ARROW DETAIL

Metric equivalent for this sign is:

SIZE	
1	
2	600 mm X 600 mm
3	750 mm X 750 mm
4	900 mm X 900 mm
5	900 mm X 900 mm

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.	Area m2
1																												
2	24		1 1/8	3/8	1/2		4 3/4	13 1/4	6	2	2 1/2	5 1/4	10 1/2	45°	1/2		5										4.0	0.36
3	30		1 3/8	1/2	5/8		6	16 5/8	7 1/2	2 1/2	3 1/8	6 5/8	13 1/8	45°	5/8		6 1/2										6.25	0.56
4	36		1 5/8	5/8	3/4		7 1/8	19 7/8	9	3	3 3/4	7 7/8	15 3/4	45°	3/4		7 5/8										9.0	0.81
5	36		1 5/8	5/8	3/4		7 1/8	19 7/8	9	3	3 3/4	7 7/8	15 3/4	45°	3/4		7 5/8										9.0	0.81

STANDARD SIGN
R3-4

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Chester J Spang for State Traffic Engineer

DATE 2/01/02 PLATE NO. R3-4.10

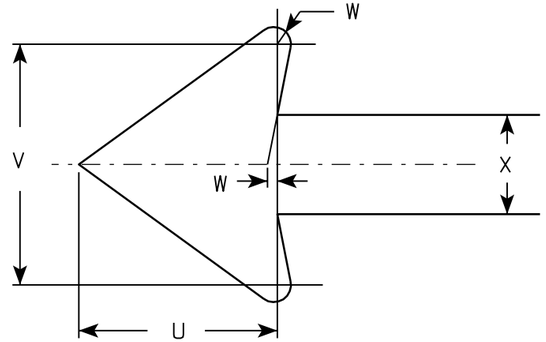
PROJECT NO:	HWY:	COUNTY:		SHEET NO: 815	E



R7-1

NOTES

1. Sign is Type II - Type H Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - White
   Message - Red
3. Message Series - See Note 5
4. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.
5. Lines 1, 3 and 4 are series C, line 2 is series B.
6. R7-1D (double arrow)
   R7-1L (left arrow)
   R7-1R (right arrow)



Metric equivalent for this sign is:

SIZE	
1	300 mm X 450 mm
2	450 mm X 600 mm
3	600 mm X 750 mm
4	
5	

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.	Area m2
1	12	18	1 1/8	3/8	3/8	3	1 7/8	2	7/8	5/8	1 1/2	2 1/2	2	2	4 7/8	4 7/8	2 1/4	2 1/8	2 1/2	3 7/8	1 1/2	1 3/4	1/8	3/4			1.5	0.14
2	18	24	1 1/8	3/8	1/2	4	2 1/2	2 1/2	1 1/4	1	2	3 1/4	2 3/4	2 5/8	7 1/8	7	2 3/4	2 5/8	3 1/8	5 7/8	2 1/4	2 5/8	1/4	1 1/8			3.0	0.27
3	24	30	1 1/8	3/8	1/2	5	3	3	2	1 1/4	2 1/2	4	3 1/4	3 3/8	9 1/4	9 1/4	3 1/4	3 1/4	3 3/4	7 3/4	3	3 1/2	1/4	1 1/2			5.0	0.45
4																												
5																												

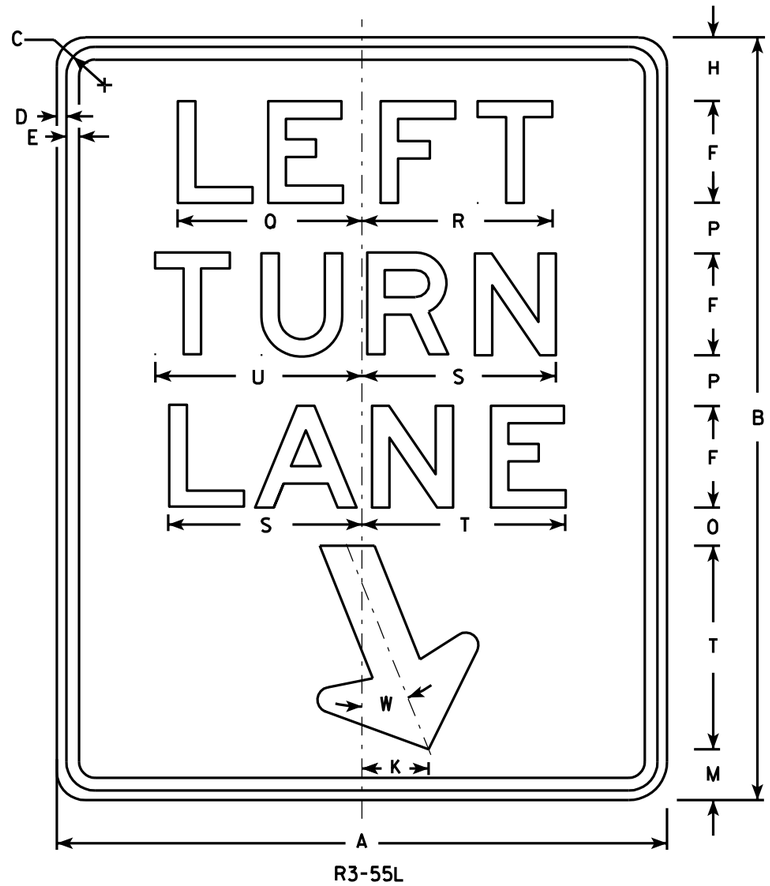
STANDARD SIGN
R7-1

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Chester J Spong
for State Traffic Engineer

DATE 2/7/02 PLATE NO. R7-1.8

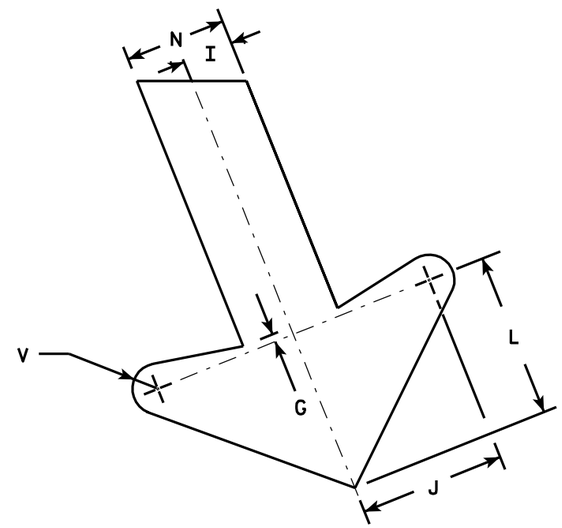
PROJECT NO:	HWY:	COUNTY:		SHEET NO: 816	E



R3-55L

NOTES

1. Sign is Type II - Type H Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - White
   Message - Black
3. Message Series - E
4. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.



ARROW DETAIL

Metric equivalent for this sign is:

SIZE	
1	
2	600 mm X 750 mm
3	900 mm X 1200 mm
4	
5	

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.	Area m2
1																												
2	24	30	1 1/8	3/8	1/2	4	1/4	2 1/2	1	2 7/8	2 5/8	3 1/4	2	2	1 1/2	2	7 1/4	7 1/2	7 5/8	8	8 1/8	1/2	22°				5.0	0.45
3	36	48	1 3/4	1/2	5/8	6	3/8	4 1/4	1 1/2	4 1/4	4	4 7/8	3 1/4	3	3	3 3/4	10 7/8	11 1/4	11 1/2	12	12 1/4	3/4	22°				12.0	1.08
4																												
5																												

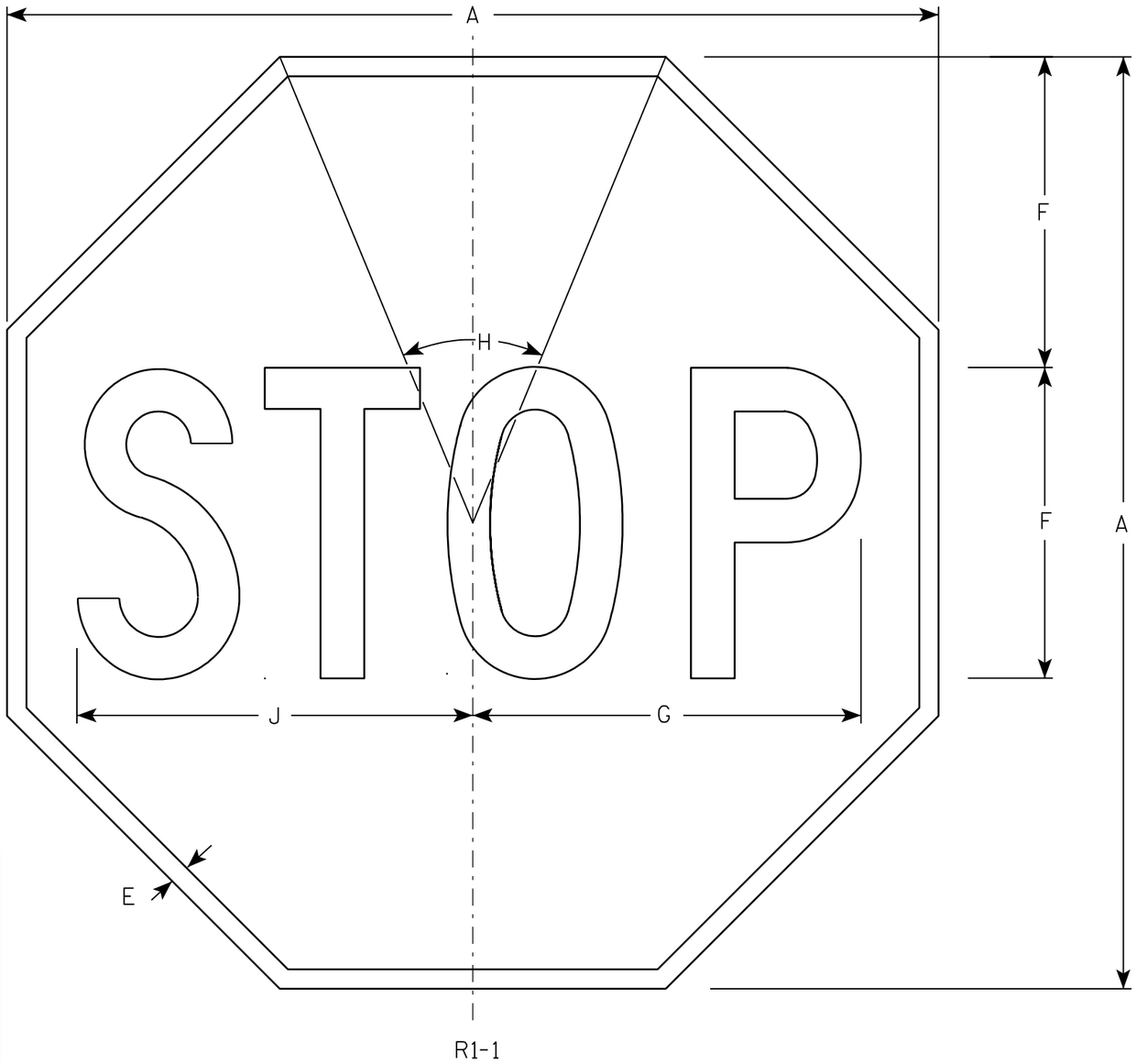
STANDARD SIGN
R3-55L

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 7/05/05 PLATE NO. R3-55L.6

PROJECT NO:	HWY:	COUNTY:		SHEET NO: 817	E



NOTES

1. Sign is Type II - Type H Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - Red
   Message - White
3. Message Series - C

Metric equivalent for this sign is:

SIZE	
1	600 mm X 600 mm
2	750 mm X 750 mm
3	900 mm X 900 mm
4	1200 mm X 1200 mm
5	1200 mm X 1200 mm
6	450 mm X 450 mm
7	300 mm X 300 mm

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.	Area m2
1	24				3/8	8	10	45°		10 1/4																	3.31	0.31
2	30				5/8	10	12 1/2	45°		12 3/4																	5.18	0.48
3	36				3/4	12	15	45°		15 3/8																	7.46	0.69
4	48				1	16	20	45°		20 1/2																	13.25	1.23
5	48				1	16	20	45°		20 1/2																	13.25	1.23
6	18				3/8	6	7 3/4	45°		7 3/4																	1.86	0.17
7	12				1/4	4	5	45°		5 1/8																	0.78	0.07

STANDARD SIGN
R1-1

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Chester J Spagy for State Traffic Engineer

DATE 10/15/98 PLATE NO. R1-1.11

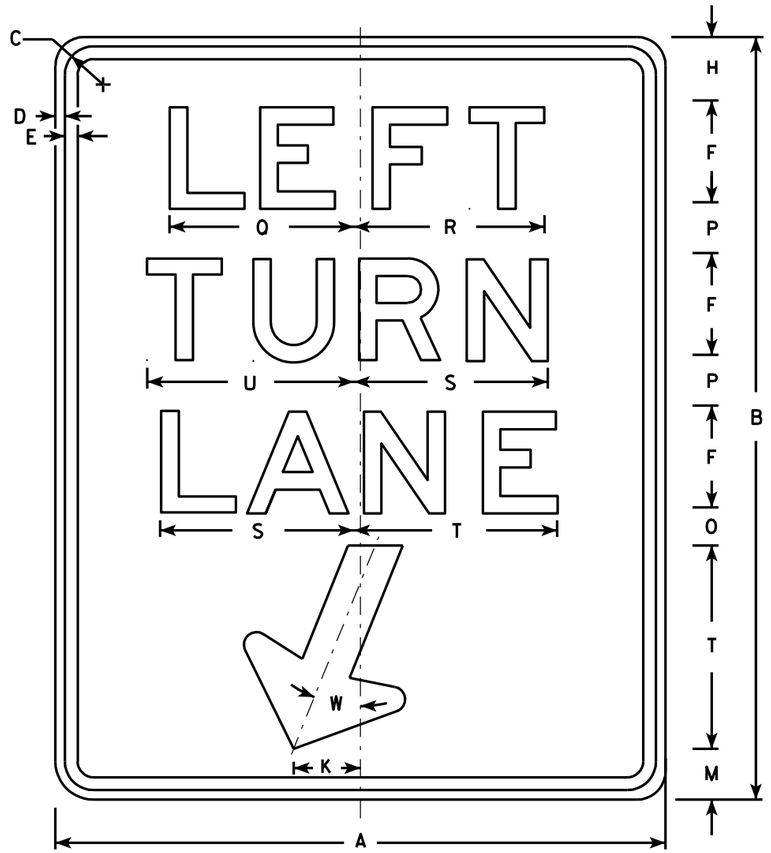
PROJECT NO:	HWY:	COUNTY:		SHEET NO: 818	E

FILE NAME : C:\Users\Projects\tr_stdplate\R11.DGN PLOT DATE : 03-OCT-2005 14:15 PLOT BY : DITJPH PLOT NAME : PLOT SCALE : 4.470624:1.000000

WISDOT/CADDS SHEET 42

7

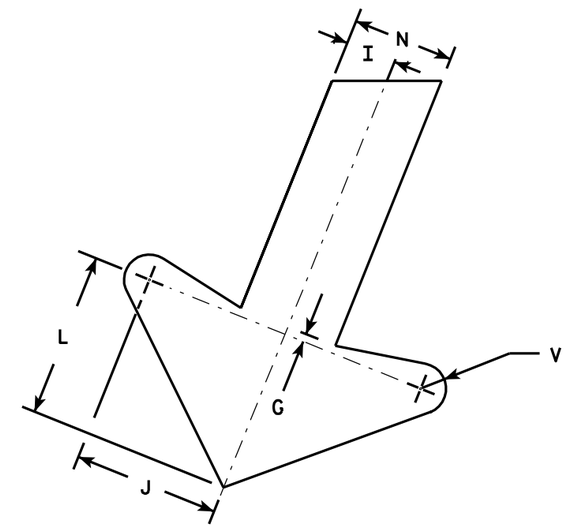
7



R3-56

NOTES

1. Sign is Type II - Type H Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - White
   Message - Black
3. Message Series - E
4. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.



ARROW DETAIL

Metric equivalent for this sign is:

SIZE	
1	
2	600 mm X 750 mm
3	900 mm X 1200 mm
4	
5	

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.	Area m2
1																												
2	24	30	1 1/8	3/8	1/2	4	1/4	2 1/2	1	2 7/8	2 5/8	3 1/4	2	2	1 1/2	2	7 1/4	7 1/2	7 5/8	8	8 1/8	1/2	22°				5.0	0.45
3	36	48	1 3/4	1/2	5/8	6	3/8	4 1/4	1 1/2	4 1/4	4	4 7/8	3 1/4	3	3	3 3/4	10 7/8	11 1/4	11 1/2	12	12 1/4	3/4	22°				12.0	1.08
4																												
5																												

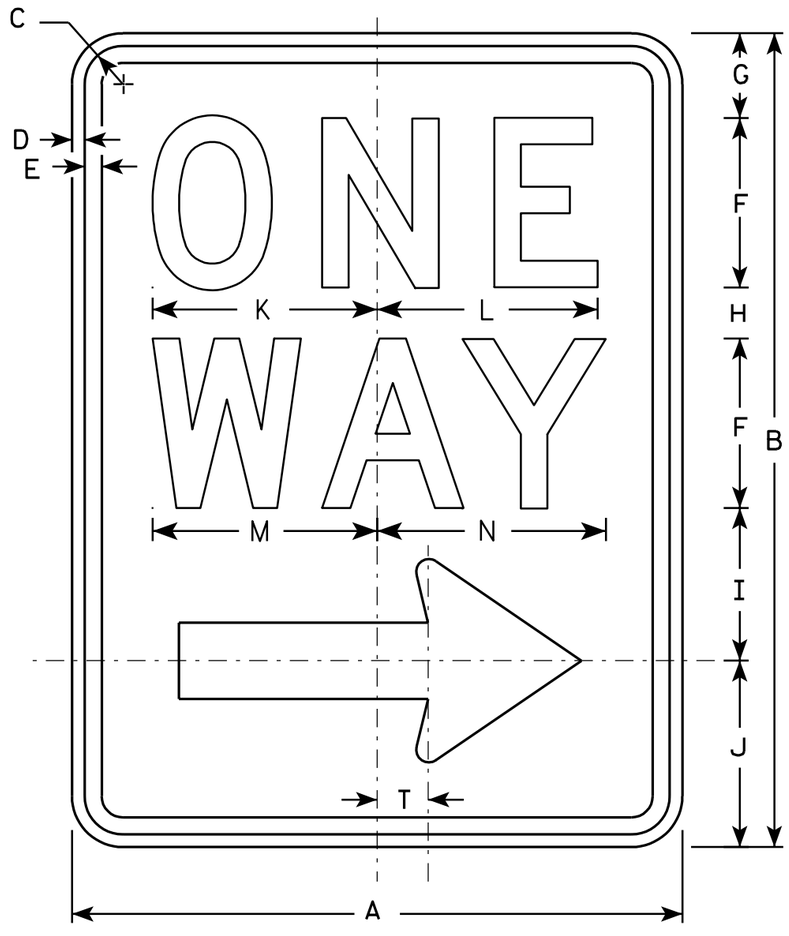
STANDARD SIGN
R3-56

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 11/02/05 PLATE NO. R3-56.1

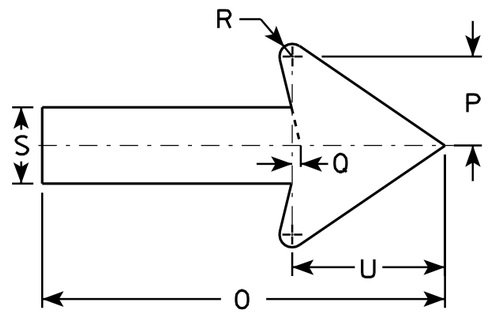
PROJECT NO:	HWY:	COUNTY:		SHEET NO: 819	E



R6-2R

NOTES

1. Sign is Type II - Type H Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - White
   Message - Black
3. Message Series - D
4. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.
5. R6-2L same as R6-2R except arrow points to the left.



Metric equivalent for this sign is:

SIZE	
1	450 mm X 600 mm
2	600 mm X 750 mm
3	900 mm X 1200 mm
4	900 mm X 1200 mm
5	900 mm X 1200 mm

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	O	R	S	T	U	V	W	X	Y	Z	Area sq. ft.	Area m2
1	18	24	1 1/8	3/8	1/2	5	2 1/2	1 1/2	4 1/2	5 1/2	6 5/8	6 1/2	6 5/8	6 3/4	11 7/8	2 5/8	1/4	3/8	2 1/4	1 1/2	4 1/2						3.0	0.27
2	24	30	1 1/8	3/8	1/2	6	3	2 1/2	5 1/2	7	8 1/8	8 1/8	8 1/2	8 5/8	16	3 1/2	3/8	1/2	3	2	6						5.0	0.45
3	24	30	1 1/8	3/8	1/2	6	3	2 1/2	5 1/2	7	8 1/8	8 1/8	8 1/2	8 5/8	16	3 1/2	3/8	1/2	3	2	6						5.0	0.45
4	36	48	1 7/8	1/2	5/8	10	5 1/4	3 1/4	9	10 1/2	12 3/4	12 3/4	13 1/4	13 1/2	24	5 5/8	1/2	3/4	4 3/4	3	9						12.0	1.08
5	36	48	1 7/8	1/2	5/8	10	5 1/4	3 1/4	9	10 1/2	12 3/4	12 3/4	13 1/4	13 1/2	24	5 5/8	1/2	3/4	4 3/4	3	9						12.0	1.08

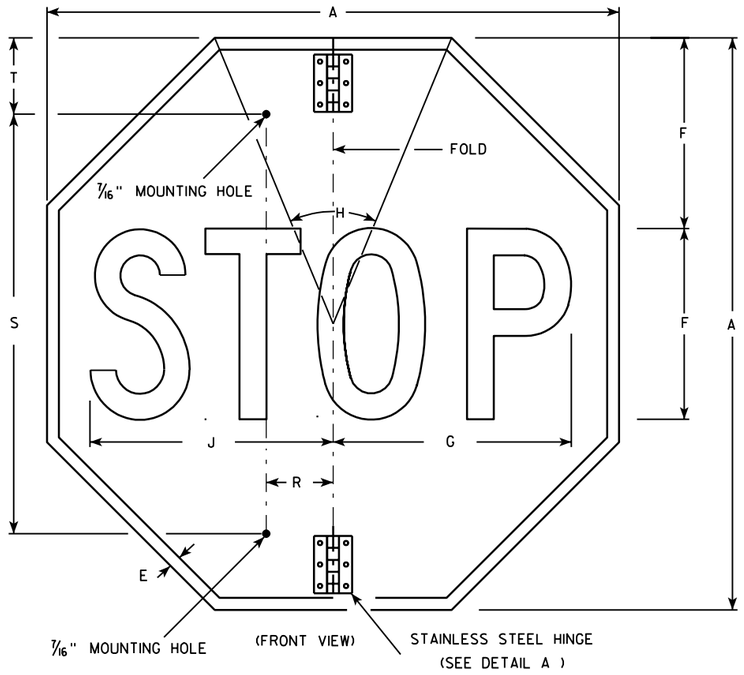
STANDARD SIGN
R6-2 R&L

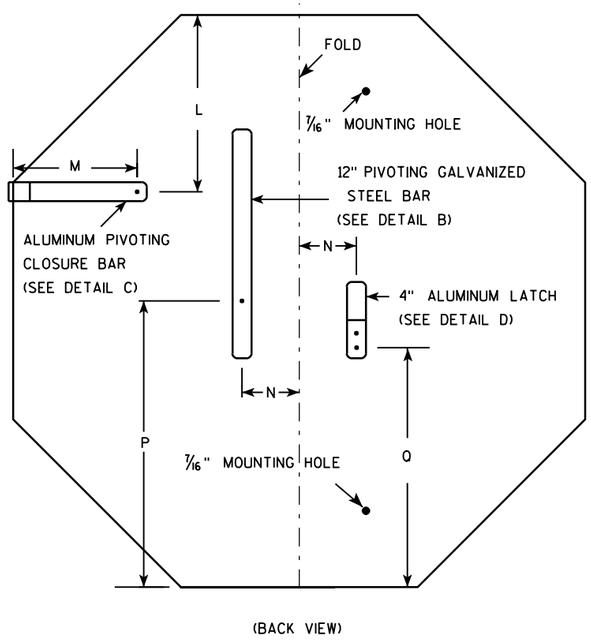
WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 10/18/05 PLATE NO. R6-2.7

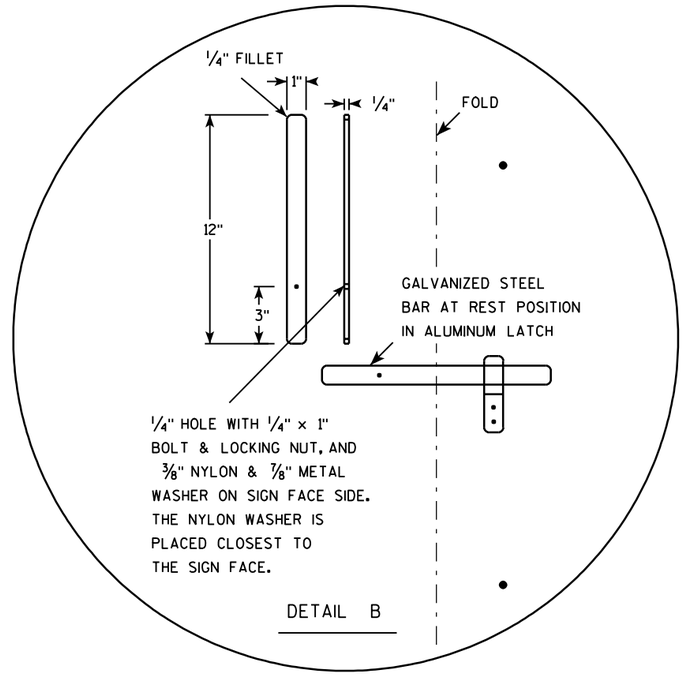
PROJECT NO:	HWY:	COUNTY:		SHEET NO: 820	E

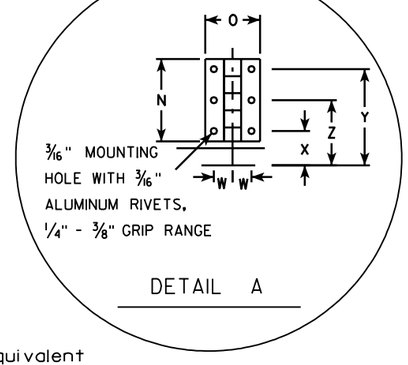


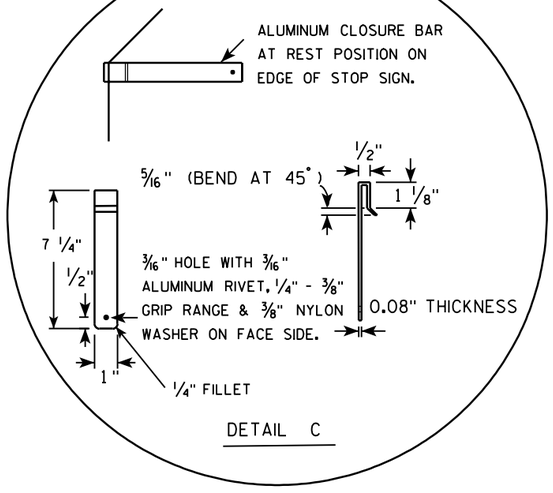


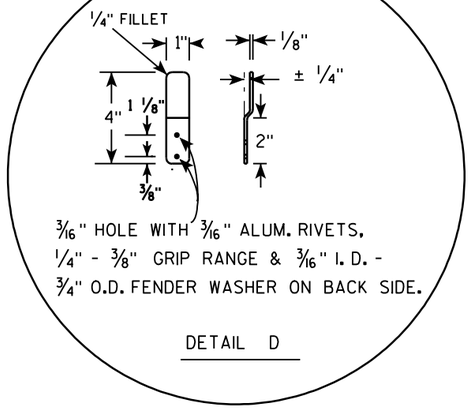
NOTES

1. Sign is Type II - Type H Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - Red
   Message - White
3. Message Series - C
4. All hardware used on the folding STOP sign installation shall conform to 637.2.4 of the WIS DOT Standard Specification.









Metric equivalent for this sign is:

SIZE	
1	
2	750 mm X 750 mm
3	900 mm X 900 mm
4	
5	

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.	Area m2
1																												
2	30				5/8	10	12 1/2	45		12 3/4		9 1/4	6 1/2	3	2	15	12 3/8	2 1/2	22	5			11/16	1 1/4	3 1/2	2 3/8	5.18	0.48
3	36				3/4	12	15	45		15 3/8		11	6 1/2	3	2	18	15 3/8	2 1/2	26	5			11/16	1 1/4	3 1/2	2 3/8	7.46	0.69
4																												
5																												

STANDARD SIGN
R1-1F

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Chester J Spang for State Traffic Engineer

DATE 2/18/00 PLATE NO. R1-1F.2

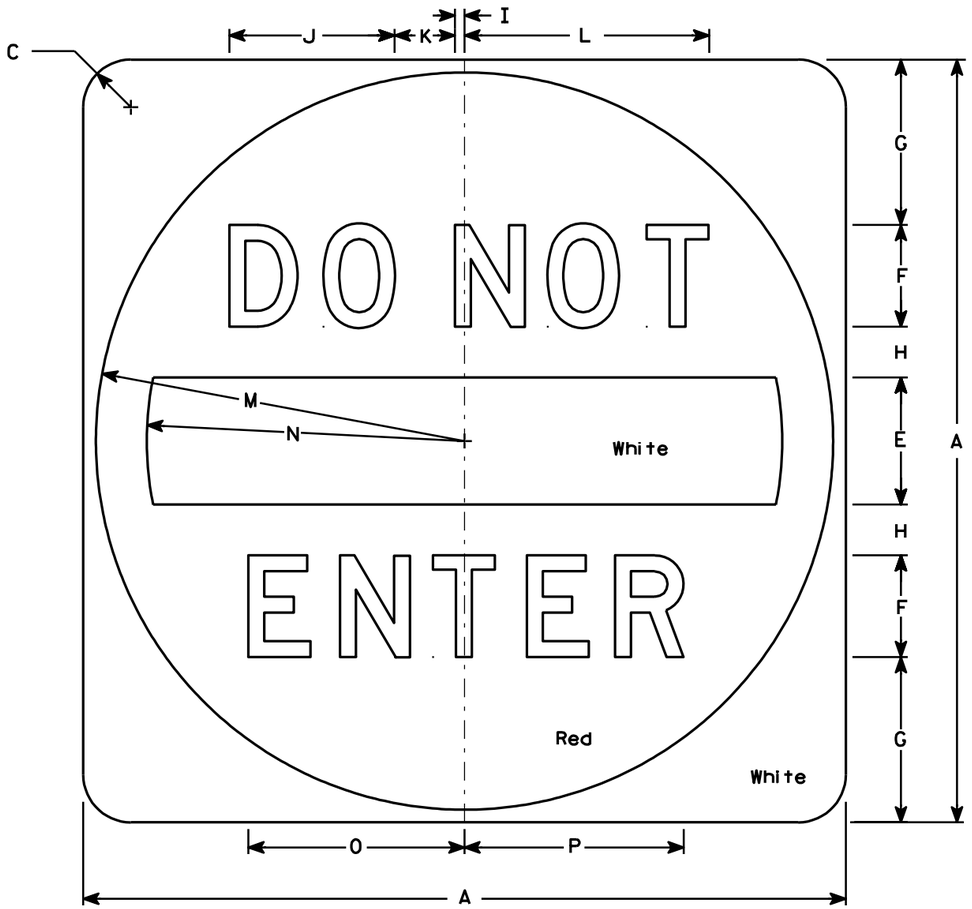
PROJECT NO:	HWY:	COUNTY:		SHEET NO: 821	E

FILE NAME : C:\Users\Projects\tr_stdplate\R11F.DGN PLOT DATE : 03-OCT-2005 14:15 PLOT BY : DITJPH PLOT NAME : PLOT SCALE : 7.947778:1.000000

WISDOT/CADDS SHEET 42

7

7



R5-1

NOTES

1. Sign is Type II - Type H Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - See detail
   Message - White - Type H Reflective
3. Message Series - D
4. Corners may be square or rounded when base material is plywood but when base material is metal, the cornors shall be rounded.

Metric equivalent for this sign is:

SIZE	
1	
2	750 mm X 750 mm
3	900 mm X 900 mm
4	900 mm X 900 mm
5	1200 mm X 1200 mm

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.	Area m2
1																												
2	30		1 7/8		5	4	6 1/2	2	3/8	6 1/2	2 3/8	9 5/8	14 1/2	12 1/2	8 1/2	8 5/8											6.26	0.56
3	36		2 1/4		6	5	7 1/2	2 1/2	1/2	8 1/8	3	12 1/8	17 1/2	15	10 5/8	10 3/4											9.0	0.81
4	36		2 1/4		6	5	7 1/2	2 1/2	1/2	8 1/8	3	12 1/8	17 1/2	15	10 5/8	10 3/4											9.0	0.81
5	48		3		8	6	11	3	5/8	9 3/4	3 5/8	14 1/2	23 1/2	20	12 3/4	12 7/8											16.0	1.44

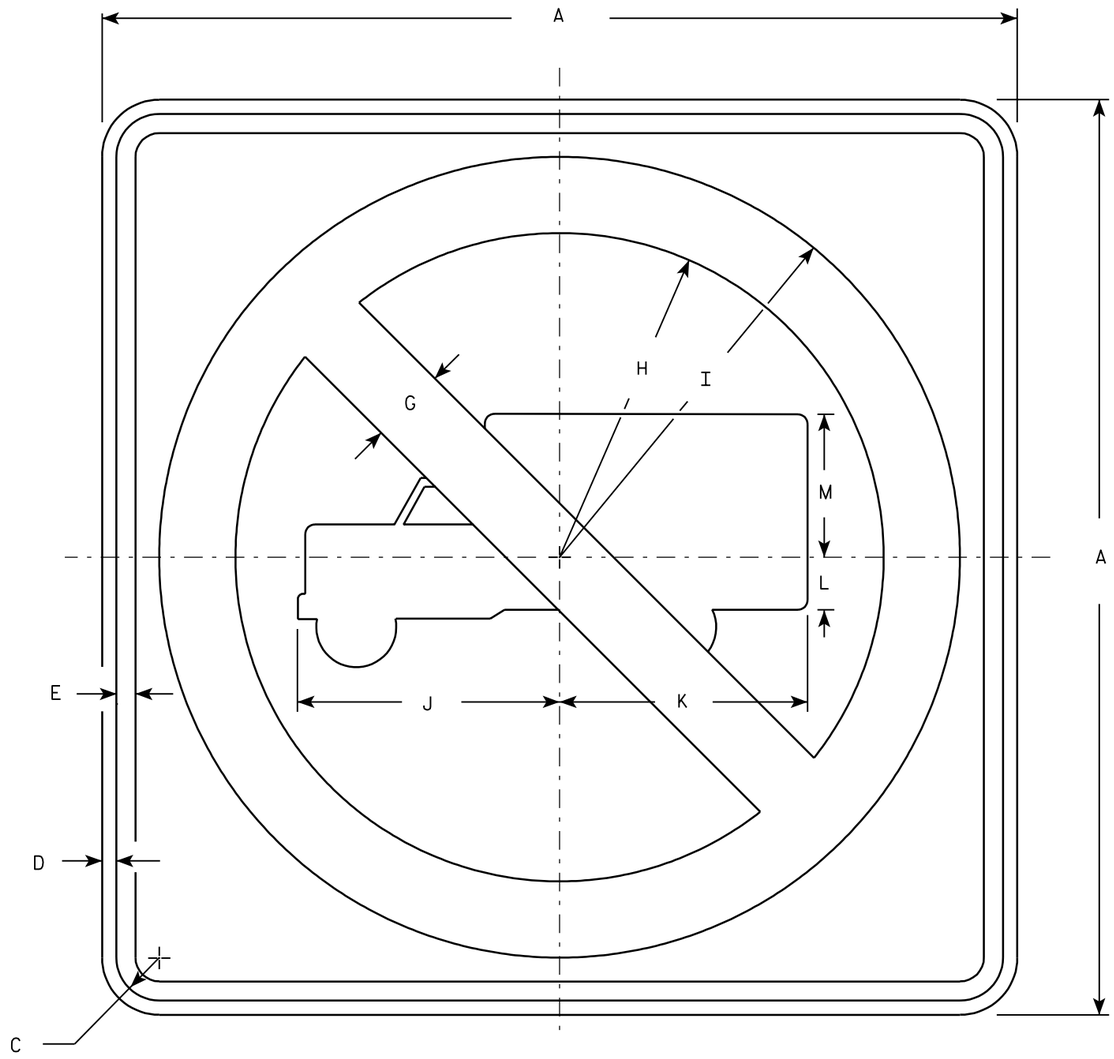
STANDARD SIGN
R5-1

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 7/05/05 PLATE NO. R5-1.14

PROJECT NO: | HWY: | COUNTY: | SHEET NO: 822 | E



R5-2

NOTES

1. Sign is Type II - Type H Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - White
   Message - See Note 4
3. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.
4. Circle & Diagonal - Reflective red.
   Truck Symbol & Border - Non-reflective black.

Metric equivalent for this sign is:

SIZE	
1	
2	600 mm X 600 mm
3	750 mm X 750 mm
4	900 mm X 900 mm
5	1200 mm X 1200 mm

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.	Area m2
1																												
2	24		1 1/8	3/8	1/2		2	8 1/2	10 1/2	6 7/8	6 1/2	1 3/8	3 3/4														4.0	0.36
3	30		1 3/8	1/2	5/8		2 1/2	10 5/8	13 1/8	8 1/2	8 1/8	1 5/8	4 3/4														6.25	0.56
4	36		1 5/8	5/8	3/4		3	12 3/4	15 3/4	10 1/4	9 3/4	2	5 3/4														9.0	0.81
5	48		2 1/4	3/4	1		4	17	21	13 5/8	13	2 5/8	7 5/8														16.0	1.44

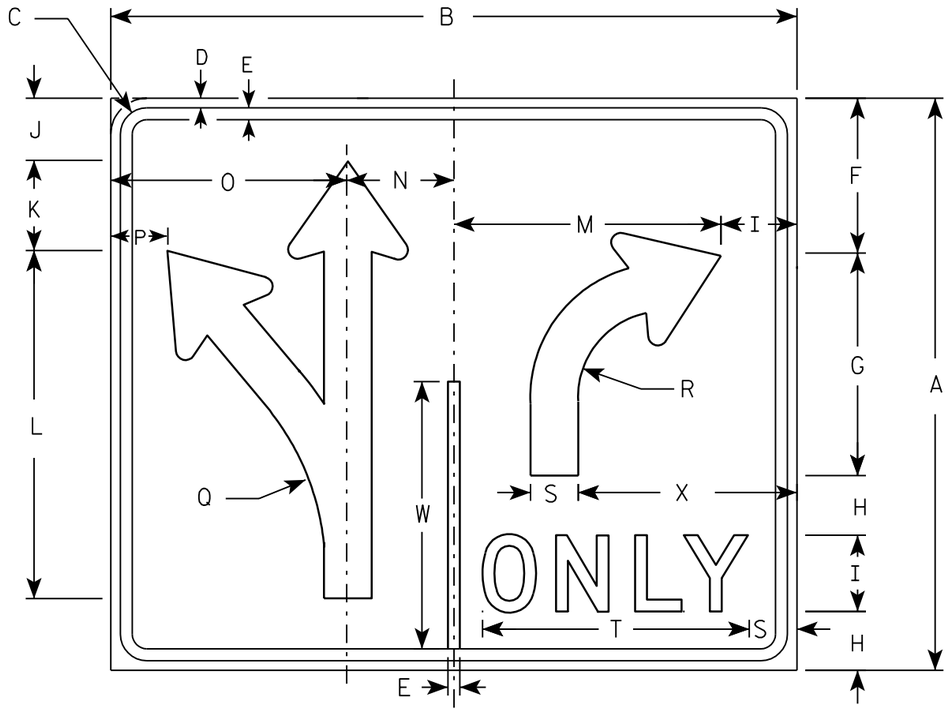
STANDARD SIGN
R5-2

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Chester J Spear for State Traffic Engineer

DATE 2/6/02 PLATE NO. R5-2.5

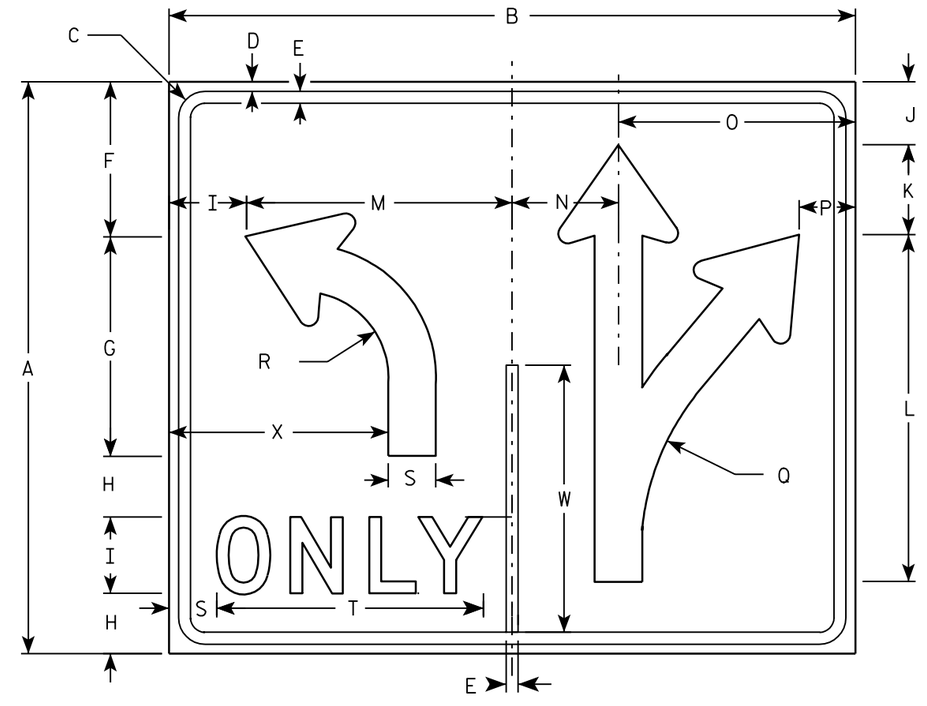
PROJECT NO:	HWY:	COUNTY:		SHEET NO: 823	E



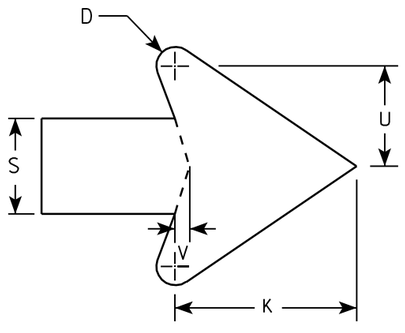
R3-8

NOTES

1. Sign is Type II - Type H Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - WHITE
   Message - BLACK
3. Message Series - D
4. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.



R3-8A



ARROW DETAIL

Metric equivalent for this sign is:

SIZE	
1	
2	750 mm X 900 mm
3	
4	1200 mm X 1350 mm
5	1200 mm X 1350 mm

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.	Area m2
1																												
2	30	36	1 3/8	1/2	5/8	8 1/8	11 5/8	3 1/8	4	3 1/4	4 3/4	18 1/4	14	5 5/8	12 3/8	3	13 1/4	4 1/2	2 1/2	14	2 5/8	3/8	14	11 1/2			7.5	0.68
3																												
4	48	54	2 1/4	3/4	1	13 1/4	18 1/2	5 1/8	6	5 1/4	7 1/8	29 1/8	21	8 3/8	18 5/8	4 3/8	21 7/8	7 1/4	3 3/4	20 5/8	4	5/8	22 3/8	17 1/4			18.0	1.62
5	48	54	2 1/4	3/4	1	13 1/4	18 1/2	5 1/8	6	5 1/4	7 1/8	29 1/8	21	8 3/8	18 5/8	4 3/8	21 7/8	7 1/4	3 3/4	20 5/8	4	5/8	22 3/8	17 1/4			18.0	1.62

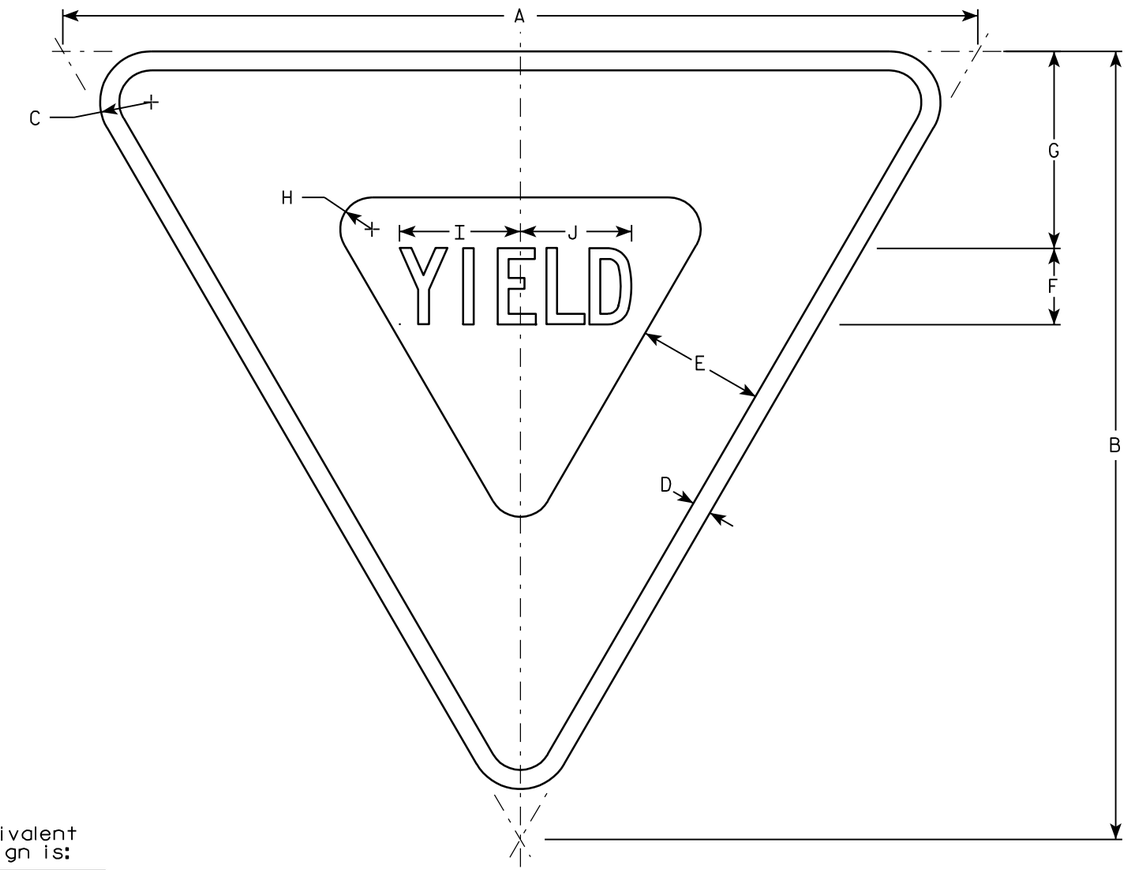
STANDARD SIGN
R3-8 & R3-8A

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 3/23/04 PLATE NO. R3-8.4

PROJECT NO:	HWY:	COUNTY:		SHEET NO: 824	E



R1-2

NOTES

1. Sign is Type II - Type H Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - White
   Message - See note 5
3. Message Series - C
4. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.
5. The border strip and word message are reflectorized red.

Metric equivalent for this sign is:

SIZE	
1	750 mm X 650 mm
2	900 mm X 775 mm
3	
4	1200 mm X 1050 mm
5	1500 mm X 1300 mm
6	600 mm X 525 mm

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.	Area m2
1	30	26	1 1/2	5/8	4	2 1/2	6 3/8	7/8	4	3 5/8																	2.71	0.24
2	36	31	2	3/4	5	3	7 3/4	1 1/4	4 3/4	4 3/8																	3.88	0.35
3																												
4	48	42	3	1	6	4	9 3/4	2	6 1/4	5 7/8																	7.00	0.63
5	60	52	3	1 1/2	8	5	13	2 1/2	7 7/8	7 1/4																	10.83	0.98
6	24	21	1 1/2	3/8	3	2	4 3/4	7/8	3 1/4	3																	1.75	0.16

STANDARD SIGN
R1-2

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Chester J Spang for State Traffic Engineer

DATE 2/03/98 PLATE NO. R1-2.10

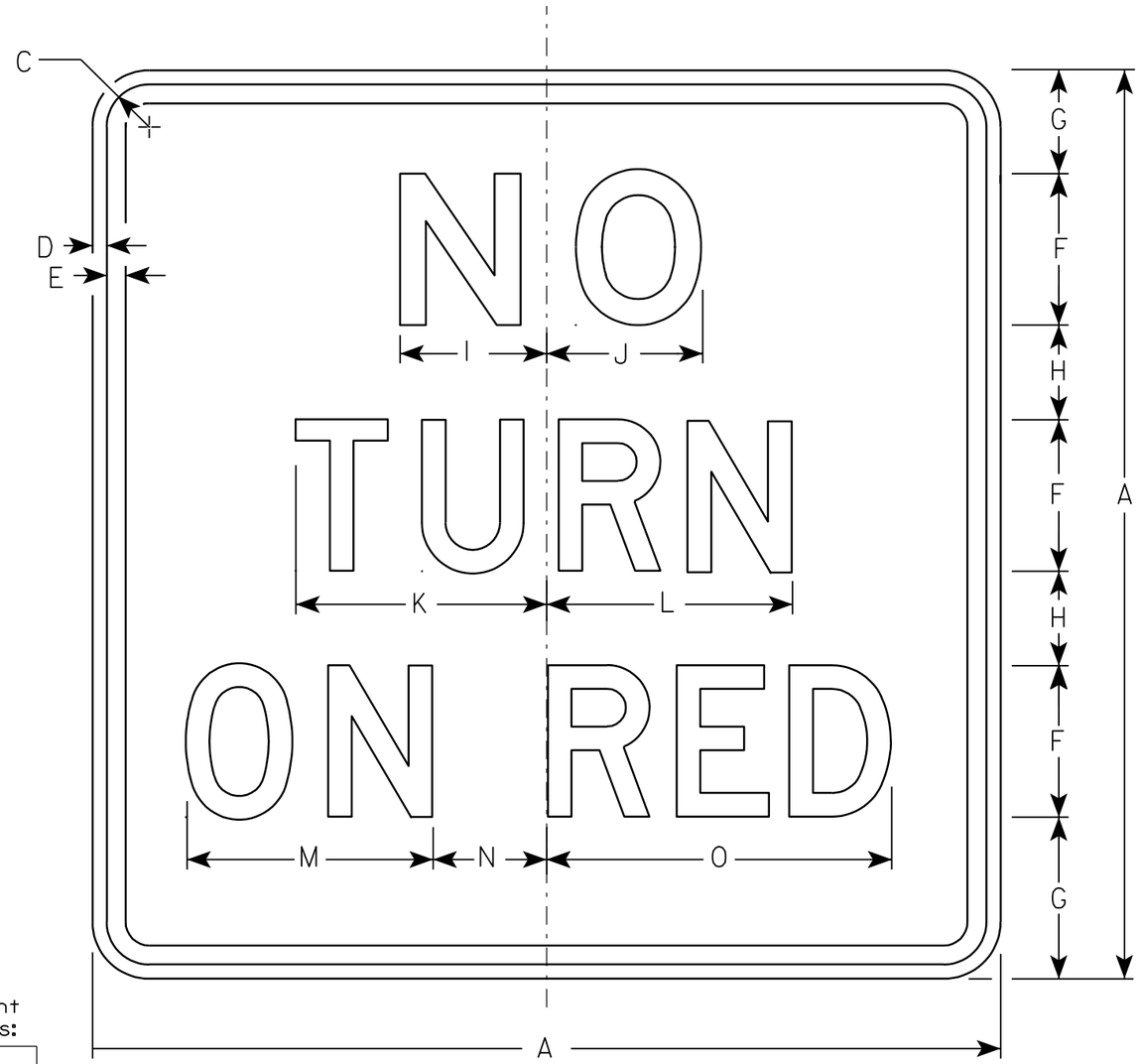
PROJECT NO:	HWY:	COUNTY:		SHEET NO: 825	E

FILE NAME : C:\Users\Projects\tr_stdplate\R12.DGN PLOT DATE : 03-OCT-2005 14:16 PLOT BY : DITJPH PLOT NAME : PLOT SCALE : 5.960833:1.000000

WISDOT/CADDS SHEET 42

7

7



R10-11B

NOTES

1. Sign is Type II - Type H Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - White
   Message - Black
3. Message Series - See Note 5.
4. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.
5. Line 1 is Series E.
   Lines 2 and 3 are Series D.

Metric equivalent for this sign is:

SIZE	
1	450 mm X 450 mm
2	600 mm X 600 mm
3	750 mm X 750 mm
4	
5	

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.	Area m2
1	18		1 1/8	3/8	3/8	3	2 3/4	1 3/4	3	3 1/8	5	4 7/8	5 1/4	1 7/8	7 1/8												2.25	0.20
2	24		1 1/8	3/8	1/2	4	3 1/2	2 1/2	3 7/8	4 1/8	6 5/8	6 1/2	6 1/2	3	9 1/8												4.0	0.36
3	30		1 3/8	1/2	5/8	5	4 1/2	3	4 7/8	5 1/4	8 1/4	8 1/8	7 3/4	4 1/8	11 7/8												6.25	0.56
4																												
5																												

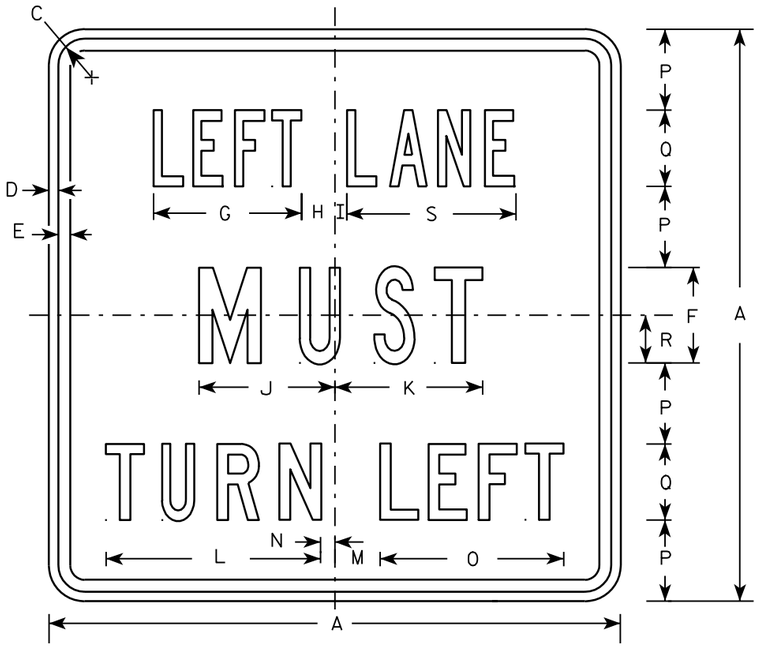
STANDARD SIGN
R10-11B

WISCONSIN DEPT OF TRANSPORTATION

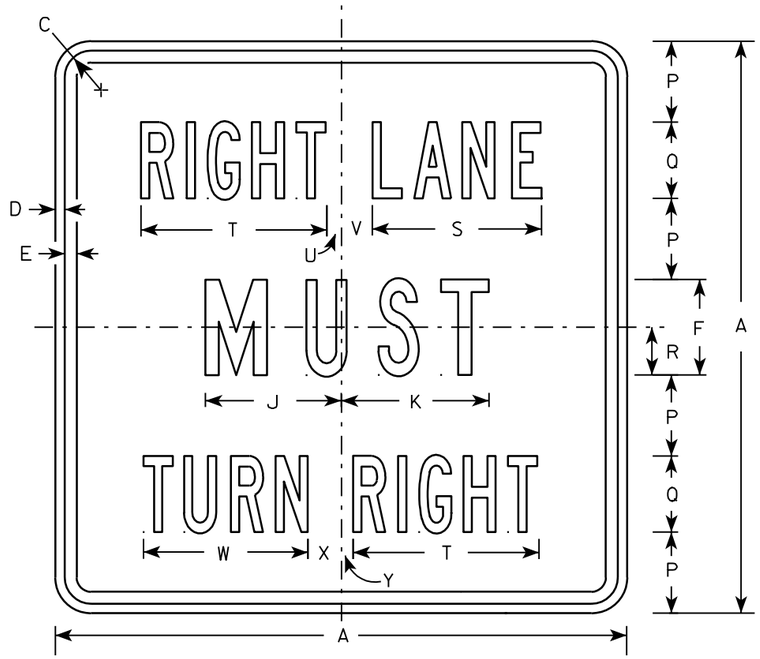
APPROVED Chester J Spang for State Traffic Engineer

DATE 2/12/02 PLATE NO. R10-11B.3

PROJECT NO: | HWY: | COUNTY: | SHEET NO: 826 | E



R3-7L



R3-7R

NOTES

1. Sign is Type II - Type H Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - White
   Message - Black
3. Message Series - Line 1 is Series B.
   Line 2 is Series C.
   Line 3 on plate R3-7R is Series B and Series C on plate R3-7L.
4. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.

Metric equivalent for this sign is:

SIZE	
1	750 mm X 750 mm
2	750 mm X 750 mm
3	900 mm X 900 mm
4	1200 mm X 1200 mm
5	

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.	Area m2
1	30		1 3/8	1/2	5/8	5	7 3/4	1 3/4	5/8	7 1/8	7 3/4	11 1/4	2 3/8	3/4	9 5/8	4 1/4	4	2 1/2	8 7/8	9 3/4	3/4	1 5/8	8 5/8	1 5/8	5/8		6.25	0.56
2	30		1 3/8	1/2	5/8	5	7 3/4	1 3/4	5/8	7 1/8	7 3/4	11 1/4	2 3/8	3/4	9 5/8	4 1/4	4	2 1/2	8 7/8	9 3/4	3/4	1 5/8	8 5/8	1 5/8	5/8		6.25	0.56
3	36		1 5/8	5/8	3/4	6	9 5/8	2	1 1/8	8 3/4	9	13 1/2	3 7/8	1 1/2	12 1/2	5	5	3	10 5/8	12	7/8	2 1/4	10 5/8	2 1/8	1		9.00	0.81
4	48		2 1/4	3/4	1	8	13 1/2	2 3/8	1 1/2	11 1/2	11 7/8	17 3/4	3 5/8	2 1/2	16 3/8	6 1/2	7	4	14 3/8	16 7/8	5/8	3 1/4	15 1/8	2 3/4	1 1/8		16.00	1.44
5																												

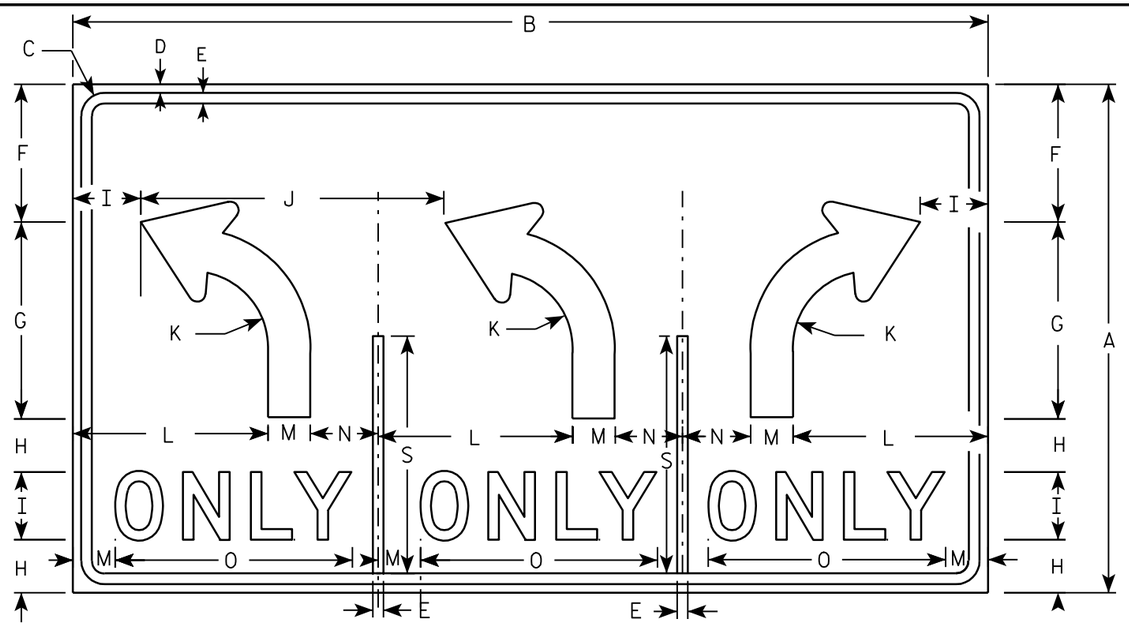
STANDARD SIGN
R3-7L & R3-7R

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Chester J Spay for State Traffic Engineer

DATE 2/05/02 PLATE NO. R3-7.3

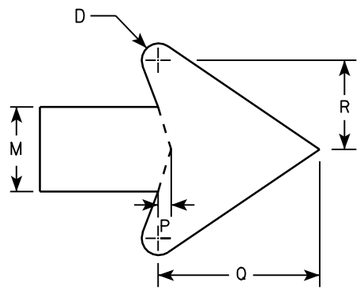
PROJECT NO:	HWY:	COUNTY:		SHEET NO: 827	E



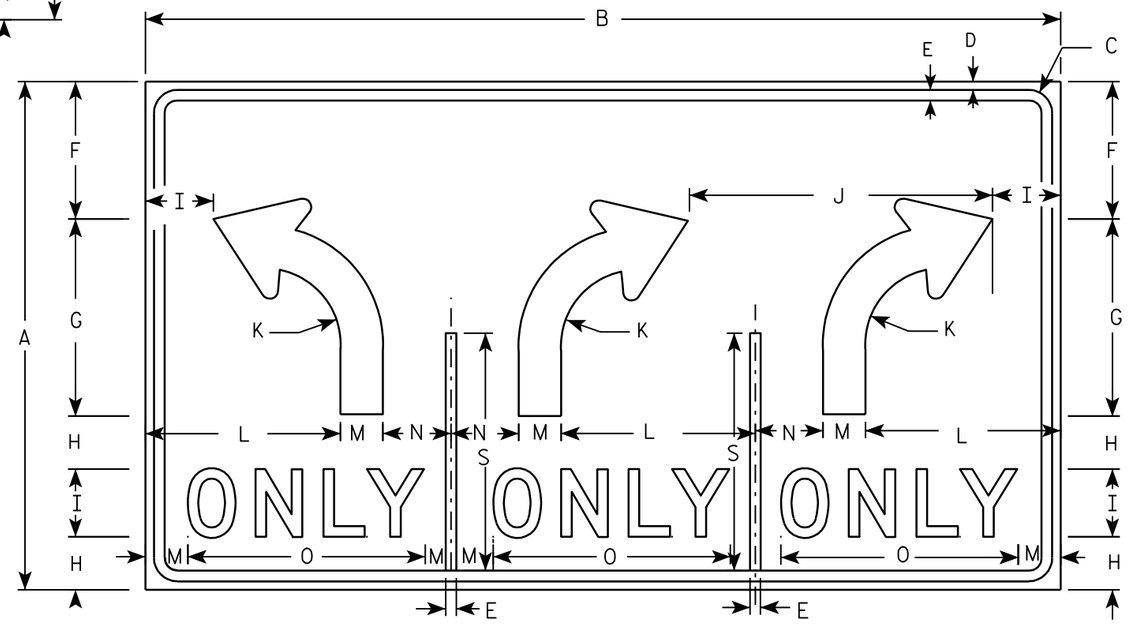
R3-8R

NOTES

1. Sign is Type II - Type H Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - WHITE
   Message - BLACK
3. Message Series - D
4. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.



ARROW DETAIL



R3-8S

Metric equivalent for this sign is:

SIZE	
1	
2	750 mm X 1350 mm
3	
4	1200 mm X 2100 mm
5	1200 mm X 2100 mm

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.	Area m²
1																												
2	30	54	1 3/8	1/2	5/8	8 1/8	11 5/8	3 1/8	4	17 7/8	4 1/2	11 1/2	2 1/2	4	14	3/8	4 3/4	2 5/8	14								11.25	1.01
3																												
4	48	84	2 1/4	3/4	1	13 1/4	18 1/2	5 1/8	6		7 1/4	17 1/4	3 3/4	7	20 5/8	5/8	7 1/8	4	22 3/8								28.0	2.52
5	48	84	2 1/4	3/4	1	13 1/4	18 1/2	5 1/8	6		7 1/4	17 1/4	3 3/4	7	20 5/8	5/8	7 1/8	4	22 3/8								28.0	2.52

STANDARD SIGN
R3-8R & R3-8S

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

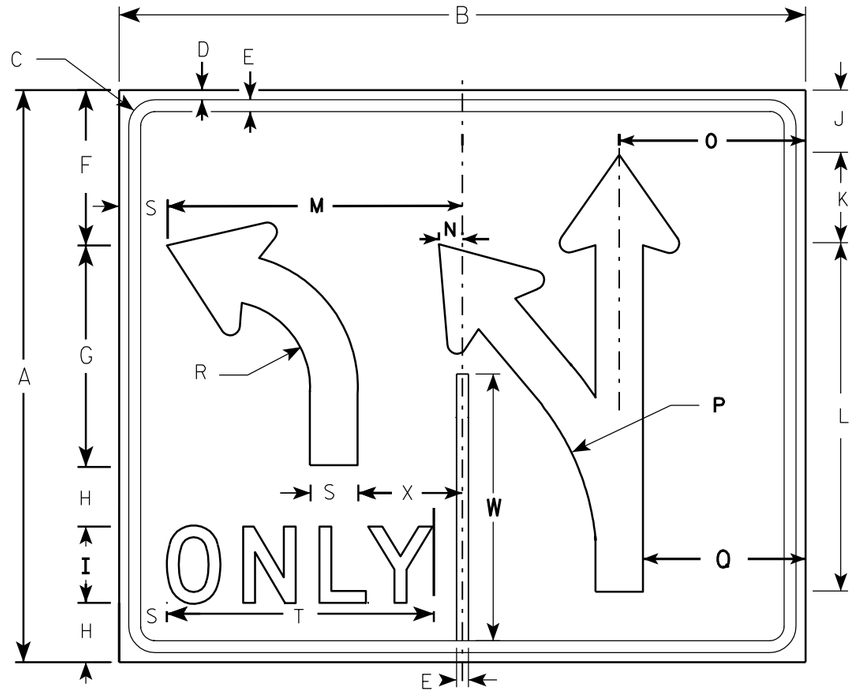
DATE 5/19/04 PLATE NO. R3-8R.1

PROJECT NO:

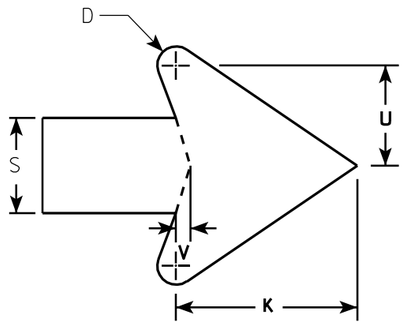
SHEET NO: 828 E

NOTES

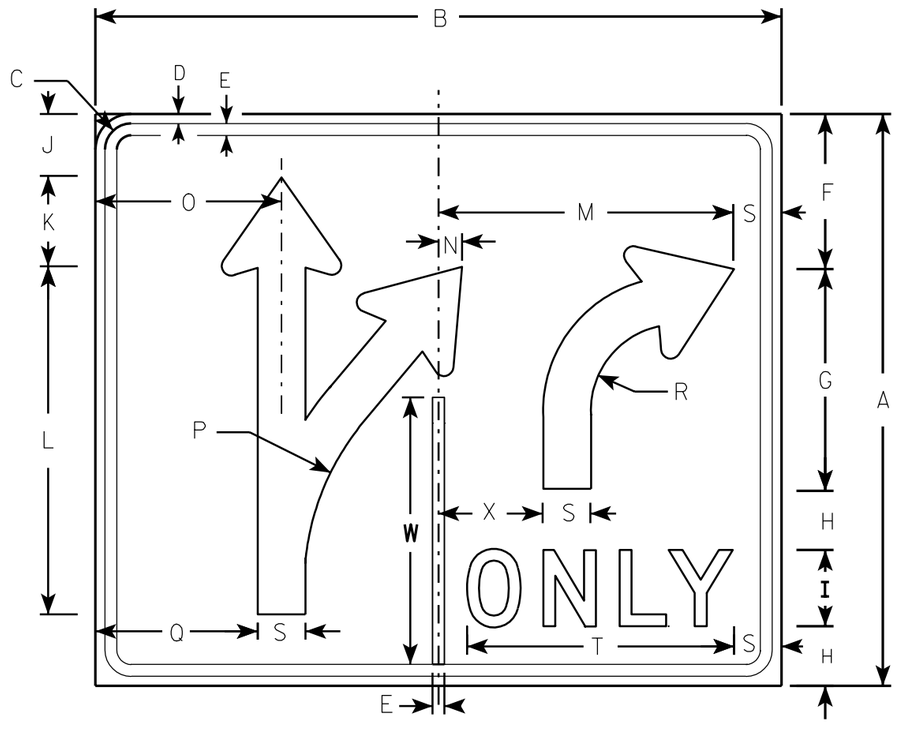
1. Sign is Type II - Type H Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - WHITE
   Message - BLACK
3. Message Series - D
4. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.
5. R3-8B & R3-8C is the same but reversed.



R3-8B



ARROW DETAIL



R3-8C

Metric equivalent for this sign is:

SIZE	
1	
2	750 mm X 900 mm
3	
4	1200 mm X 1350 mm
5	1200 mm X 1350 mm

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.	Area sq
1																												
2	30	36	1 3/8	1/2	5/8	8 1/8	11 5/8	3 1/8	4	3 1/4	4 3/4	18 1/4	15 1/2	1 1/4	9 3/4	13 1/4	8 1/2	4 1/2	2 1/2	12 7/8	2 5/8	3/8	14	5 1/4			7.5	0.68
3																												
4	48	54	2 1/4	3/4	1	13 1/4	18 1/2	5 1/8	6	5 1/4	7 1/8	29 5/8	23 1/8	1 7/8	14 5/8	21 7/8	12 3/4	7 1/4	3 3/4	20 5/8	4	5/8	22 3/8	8 1/8			18.0	1.62
5	48	54	2 1/4	3/4	1	13 1/4	18 1/2	5 1/8	6	5 1/4	7 1/8	29 5/8	23 1/8	1 7/8	14 5/8	21 7/8	12 3/4	7 1/4	3 3/4	20 5/8	4	5/8	22 3/8	8 1/8			18.0	1.62

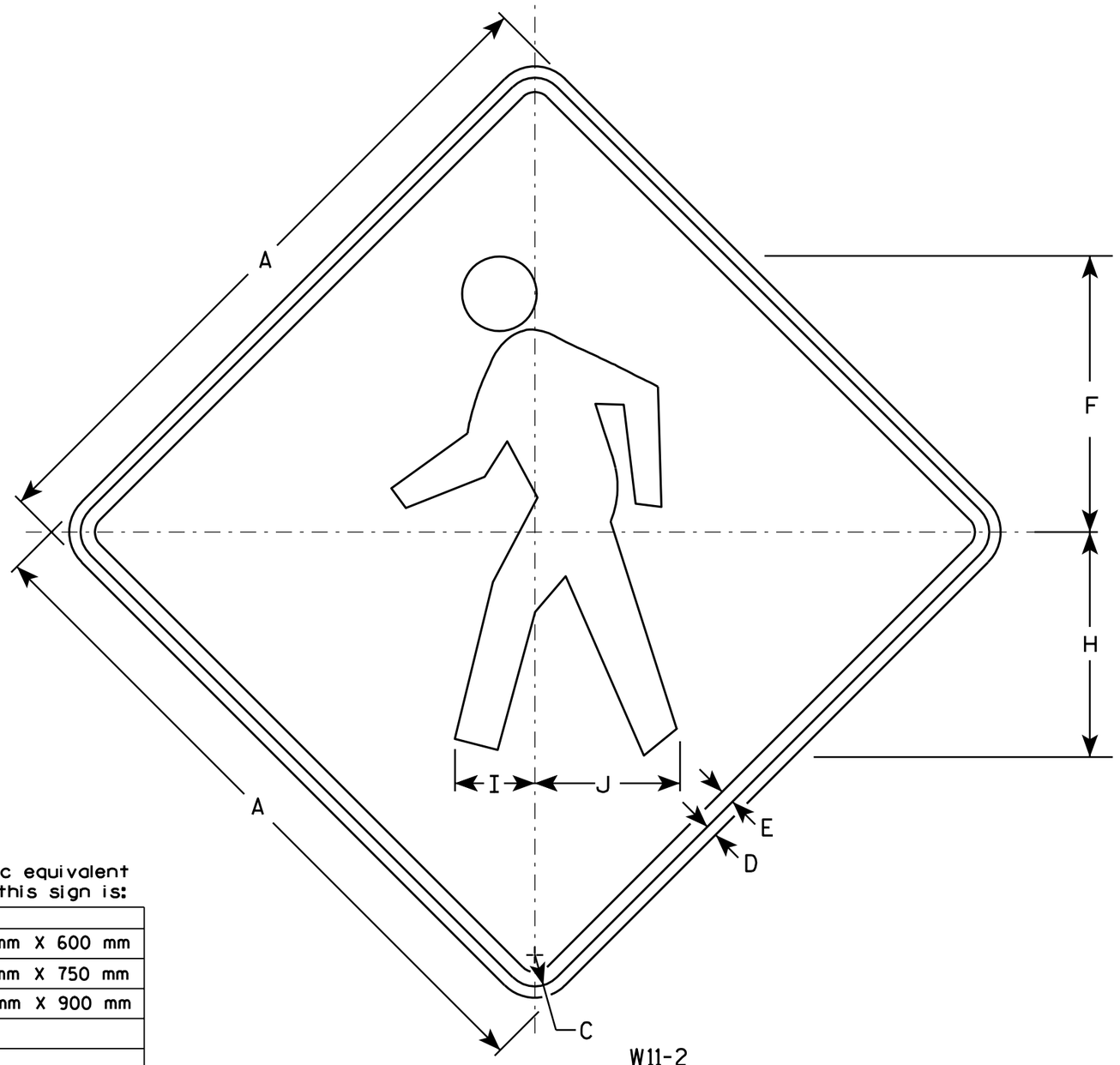
STANDARD SIGN
R3-8B & R3-8C

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 3/23/04 PLATE NO. R3-8B.1

PROJECT NO:	HWY:	COUNTY:		SHEET NO: 829	E



W11-2

NOTES

1. Sign is Type II - Type H Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - Yellow
   Message - Black
3. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.

Metric equivalent for this sign is:

SIZE	
1	600 mm X 600 mm
2	750 mm X 750 mm
3	900 mm X 900 mm
4	
5	

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.	Area m²
1	24		1 1/8	3/8	1/2	9 3/4		7 7/8	2 7/8	5 1/8																	4.0	0.36
2	30		1 3/8	1/2	5/8	12 1/8		9 7/8	3 1/2	6 3/8																	6.25	0.56
3	36		1 5/8	5/8	3/4	14 1/2		11 7/8	4 1/4	7 5/8																	9.0	0.81
4																												
5																												

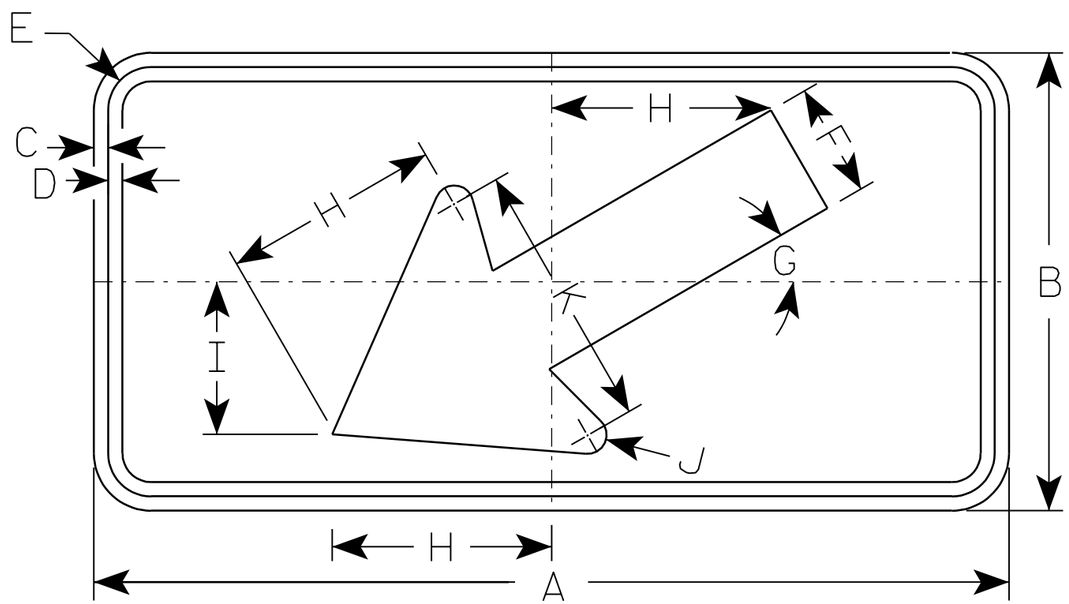
STANDARD SIGN
W11-2

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 08/24/05 PLATE NO. W11-2.6

PROJECT NO:	HWY:	COUNTY:		SHEET NO: 830	E



W16-7L
WF16-7L

NOTES

1. Sign is Type II - Reflective or Type F Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - See Note 5
   Message - See Note 5
3. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.
4. W16-7R & WF16-7R are the same as W16-L & WF-16-7L except the arrow is reversed along the vertical centerline.
5. W16-7R & W16-7L
   Background - Reflective Yellow
   Message - Black
   WF16-7R & WF16-7L
   Background - Type F Reflective Yellow-Green
   Message - Black

Metric equivalent for this sign is:

SIZE	
1	
2	600 mm X 300 mm
3	750 mm X 450 mm
4	1200 mm X 600 mm
5	1200 mm X 600 mm

*For 30" x 30" S1-1 signs, use 24" x 12" WF16-7L signs.
For 36" x 36" S1-1 signs, use 30" x 18" WF16-7L signs.

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.	Area m2
1																												
2*	24	12	3/8	3/8	1 1/8	3	30°	5 3/4	4	1/2	7																2.0	0.18
3*	30	18	3/8	1/2	1 1/8	4 1/2	30°	8 1/2	6	5/8	10 1/4																3.75	0.34
4	48	24	1/2	5/8	1 3/8	6	30°	11 1/2	8	1	14																8	0.72
5	48	24	1/2	5/8	1 3/8	6	30°	11 1/2	8	1	14																8	0.72

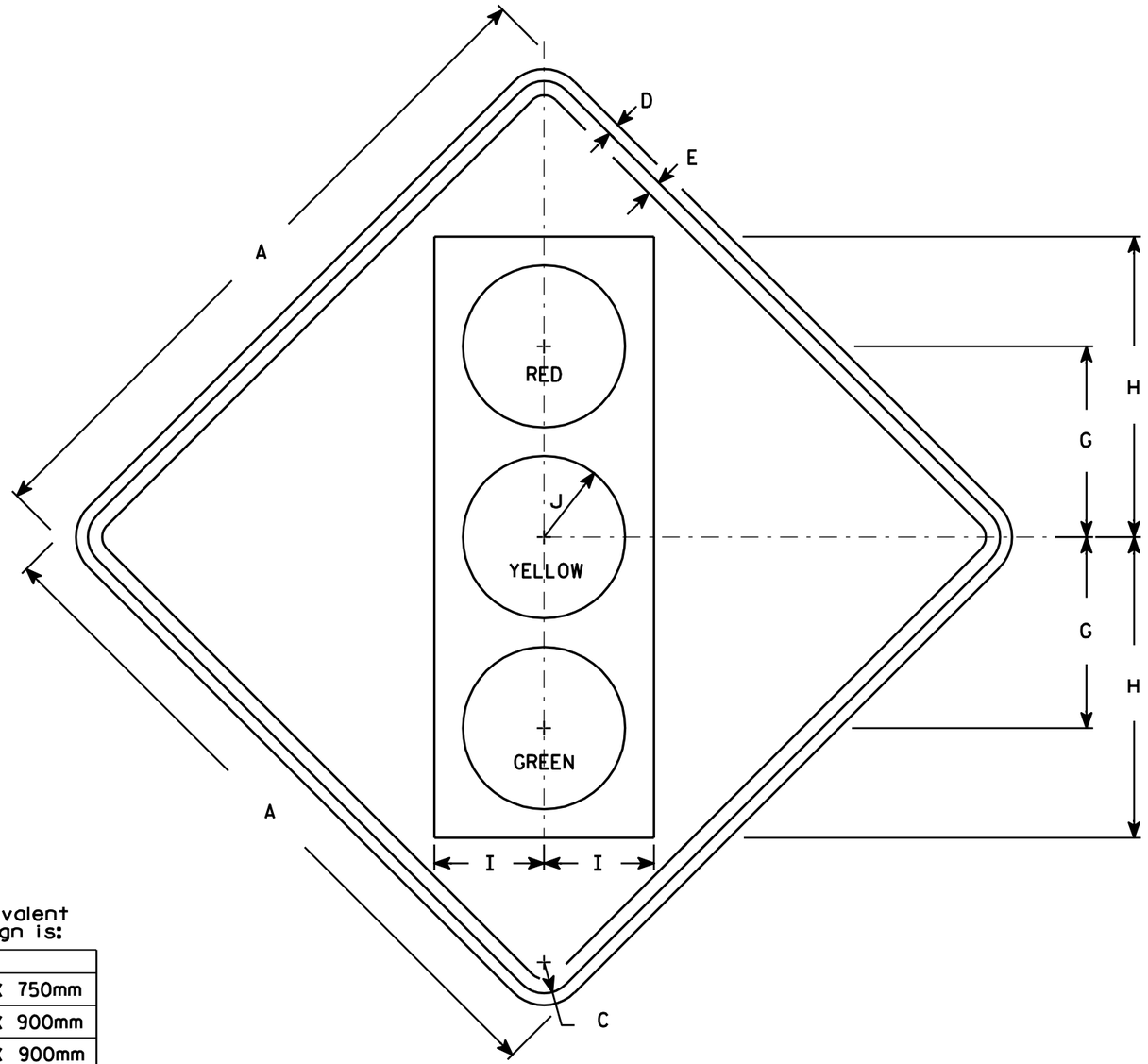
STANDARD SIGN
W16-7

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 8/30/06 PLATE NO. W16-7.2

PROJECT NO:	HWY:	COUNTY:		SHEET NO: 831	E



NOTES

1. Sign is Type II - Type H Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - Yellow
   Message - See Note 4
3. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.
4. Symbol and border are non-reflective black.
   Top circle - Type H Reflectorized Red
   Center circle - Same as background
   Bottom circle - Type H Reflectorized Green

Metric equivalent for this sign is:

SIZE	
1	750mm X 750mm
2	900mm X 900mm
3	900mm X 900mm
4	1200mm X 1200mm
5	1200mm X 1200mm

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.	Area m2
1	30		1 3/8	1/2	5/8		8 3/4	13 3/4	5	3 3/4																	6.25	0.56
2	36		1 5/8	5/8	3/4		10	15 3/4	5 3/4	4 1/4																	9.0	0.81
3	36		1 5/8	5/8	3/4		10	15 3/4	5 3/4	4 1/4																	9.0	0.81
4	48		2 1/4	3/4	1		12 1/2	20	7 1/2	5																	16.0	1.44
5	48		2 1/4	3/4	1		12 1/2	20	7 1/2	5																	16.0	1.44

STANDARD SIGN
W3-3

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 6/11/07 PLATE NO. W3-3.10

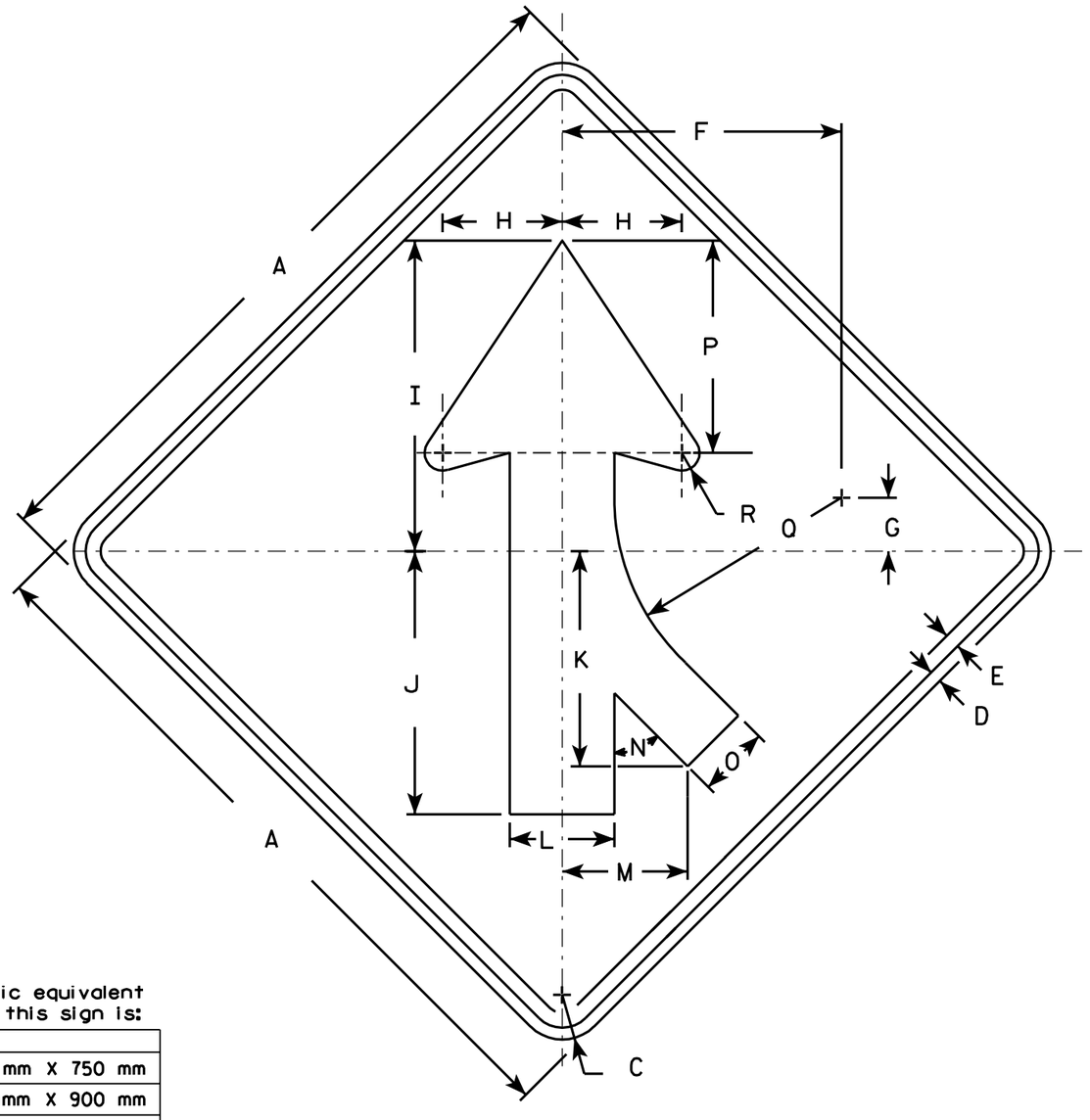
PROJECT NO:	HWY:	COUNTY:		SHEET NO: 832	E

FILE NAME : C:\Users\Projects\tr_stdplate\W33.DGN PLOT DATE : 11-JUN-2007 09:55 PLOT BY : DITJPH PLOT NAME : PLOT SCALE : 7.495310:1.000000

WISDOT/CADDS SHEET 42

7

7



W4-1R

NOTES

1. Sign is Type II - Type H Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - Yellow
   Message - Black
3. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.
4. W4-1L is the same as W4-1R except the arrow is reversed along the vertical centerline.

Metric equivalent for this sign is:

SIZE	
1	750 mm X 750 mm
2	900 mm X 900 mm
3	900 mm X 900 mm
4	1200 mm X 1200 mm
5	1200 mm X 1200 mm

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.	Area m2
1	30		1 3/8	1/2	5/8	11 5/8	2 1/2	5	13	11	9	4 3/8	5 1/4	45°	3	8 7/8	9 1/2	3/4									6.25	0.56
2	36		1 5/8	5/8	3/4	14	2 3/4	6	15 3/4	13 1/4	10 1/4	5 1/4	6 3/8	45°	3 5/8	10 5/8	11 3/8	7/8									9.0	0.81
3	36		1 5/8	5/8	3/4	14	2 3/4	6	15 3/4	13 1/4	10 1/4	5 1/4	6 3/8	45°	3 5/8	10 5/8	11 3/8	7/8									9.0	0.81
4	48		2 1/4	3/4	1	18 3/4	3 5/8	8	20 1/2	17 1/2	14 3/8	7	8 3/8	45°	4 3/4	14 1/4	15 1/4	1 1/4									16.0	1.44
5	48		2 1/4	3/4	1	18 3/4	3 5/8	8	20 1/2	17 1/2	14 3/8	7	8 3/8	45°	4 3/4	14 1/4	15 1/4	1 1/4									16.0	1.44

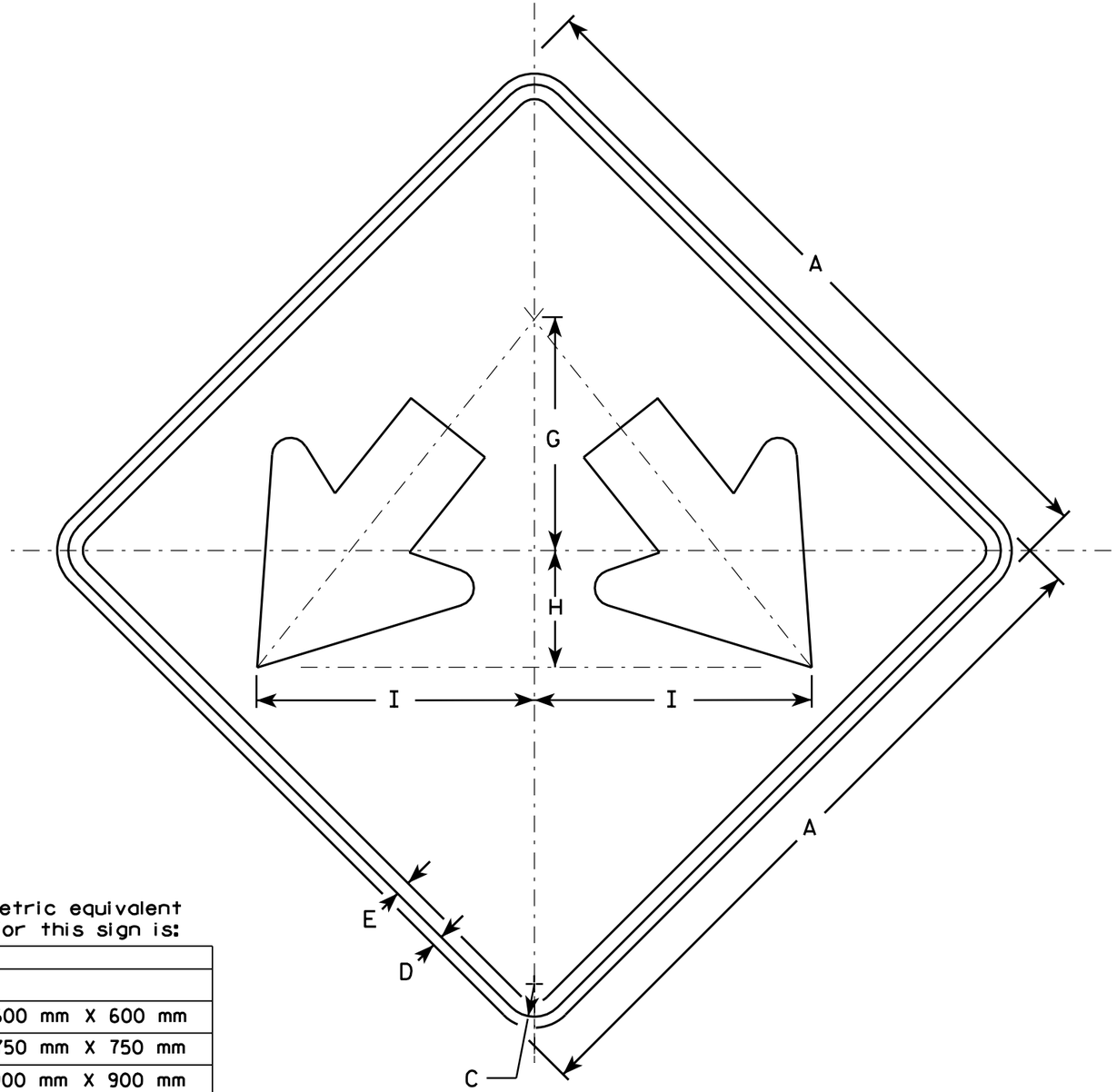
STANDARD SIGN
W4-1

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 6/29/05 PLATE NO. W4-1.12

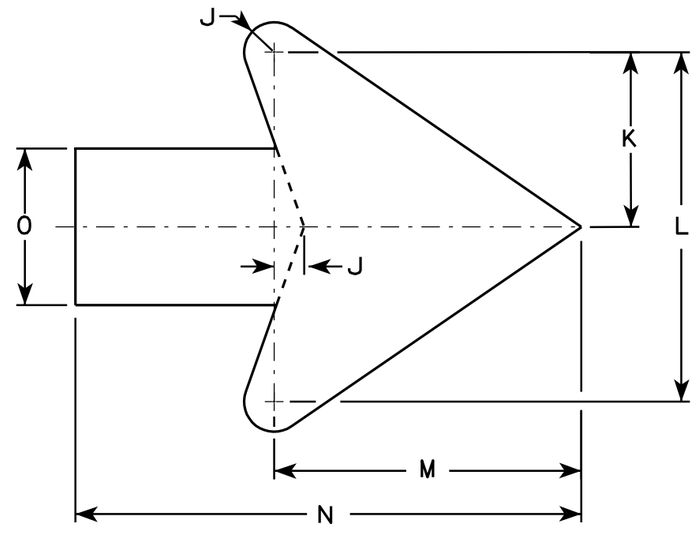
PROJECT NO:	HWY:	COUNTY:		SHEET NO: 833	E



W12-1D

NOTES

1. Sign is Type II - Type H Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - Yellow
   Message - Black
3. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.



Arrow Detail

Metric equivalent for this sign is:

SIZE	
1	
2	600 mm X 600 mm
3	750 mm X 750 mm
4	900 mm X 900 mm
5	1200 mm X 1200 mm

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.	Area m²
1																												
2	24		1 1/8	1/2	3/8		8	4	9 1/2	3/8	3 3/8	7 1/4	6 3/8	10 3/8	3 1/4												4.0	0.36
3	30		1 3/8	1/2	5/8		10	5	11 7/8	3/4	4 1/2	9	7 7/8	13	4												6.25	0.56
4	36		1 3/8	1/2	5/8		12	6	14 1/4	1	5 1/2	10 7/8	9 5/8	15 3/4	4 3/4												9.0	0.81
5	48		2 1/4	3/4	1		16	8	19	1 1/4	7 1/4	14 1/2	12 3/4	21	6 1/4												16.0	1.44

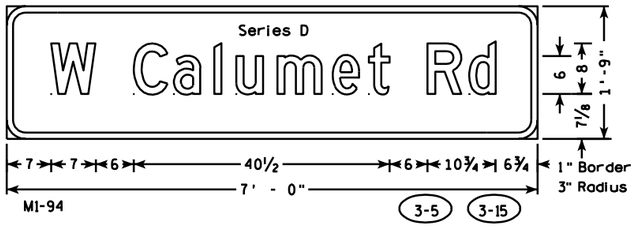
STANDARD SIGN
W12-1D

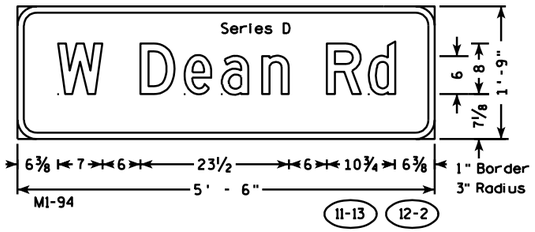
WISCONSIN DEPT OF TRANSPORTATION

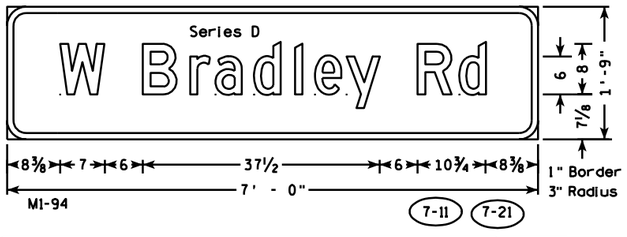
APPROVED Matthew R Rauch
for State Traffic Engineer

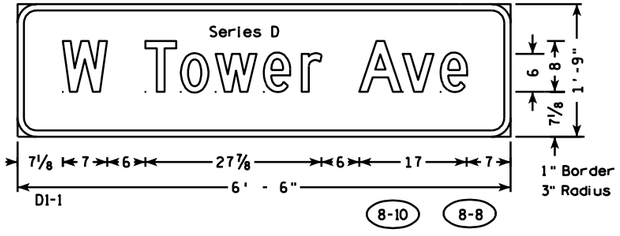
DATE 3/14/06 PLATE NO. W12-1D.13

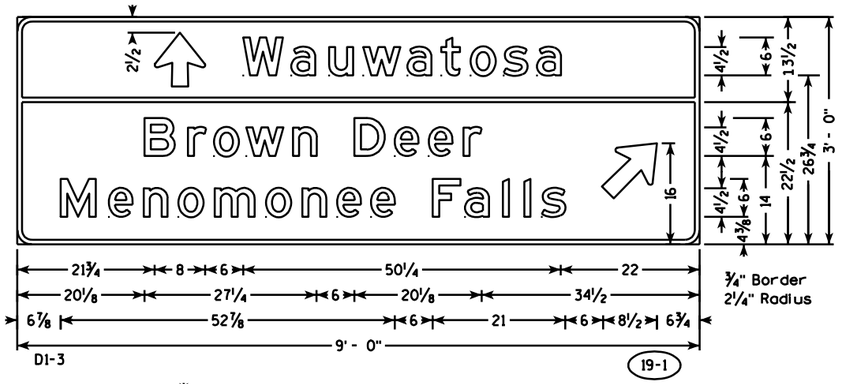
PROJECT NO:	HWY:	COUNTY:		SHEET NO: 834	E

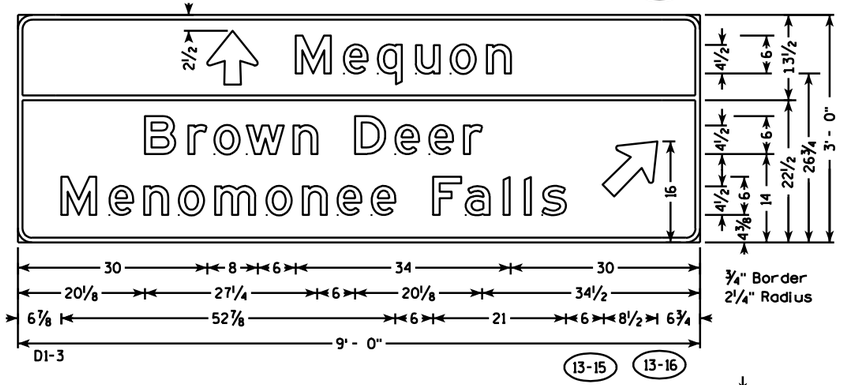


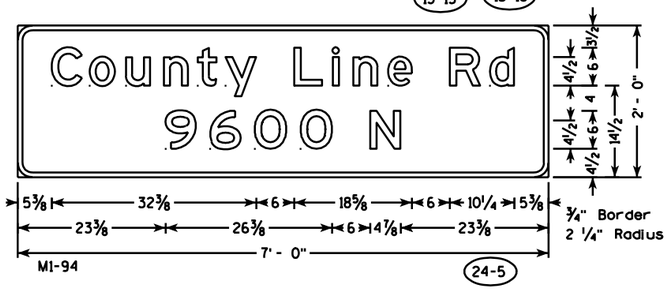


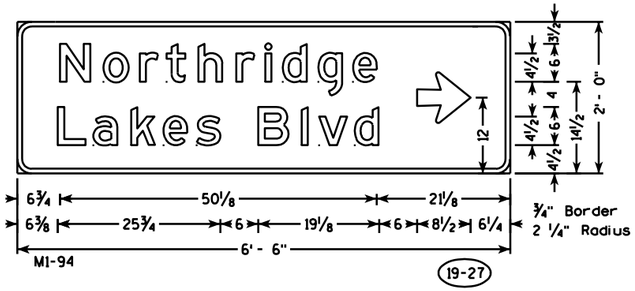


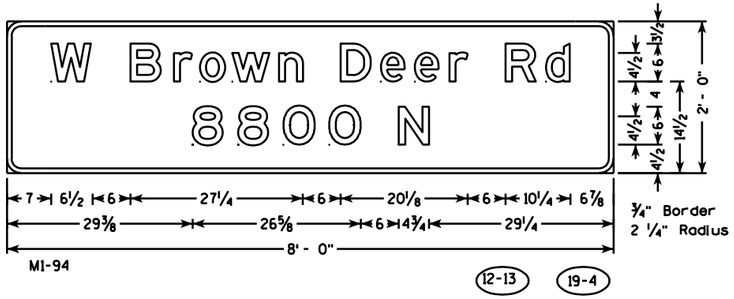


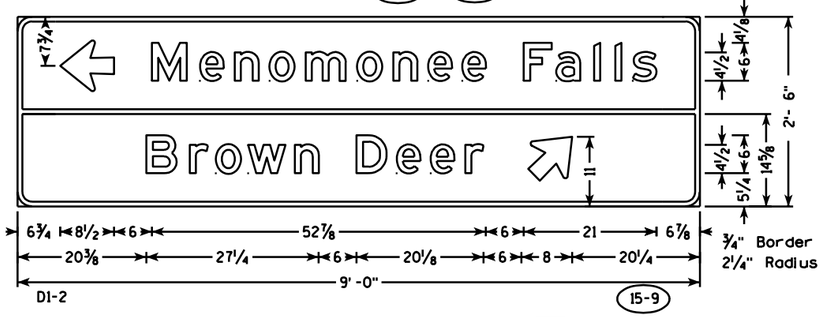


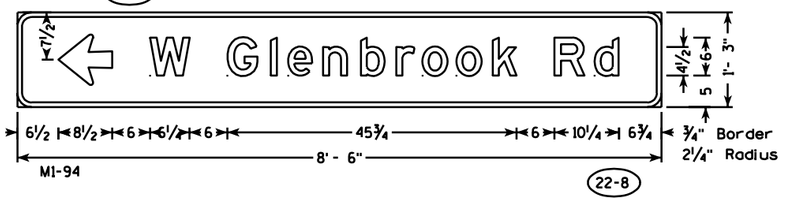


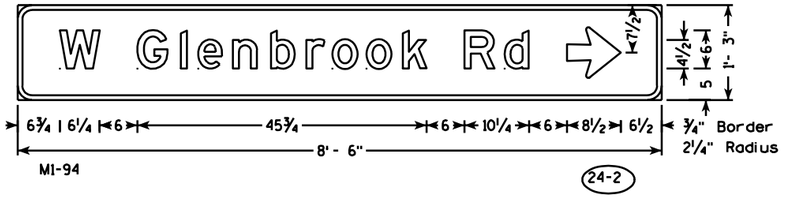












NOTES

1. All Signs Type II - Type H Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - Green
   Message - White
3. Message Series - E except as noted

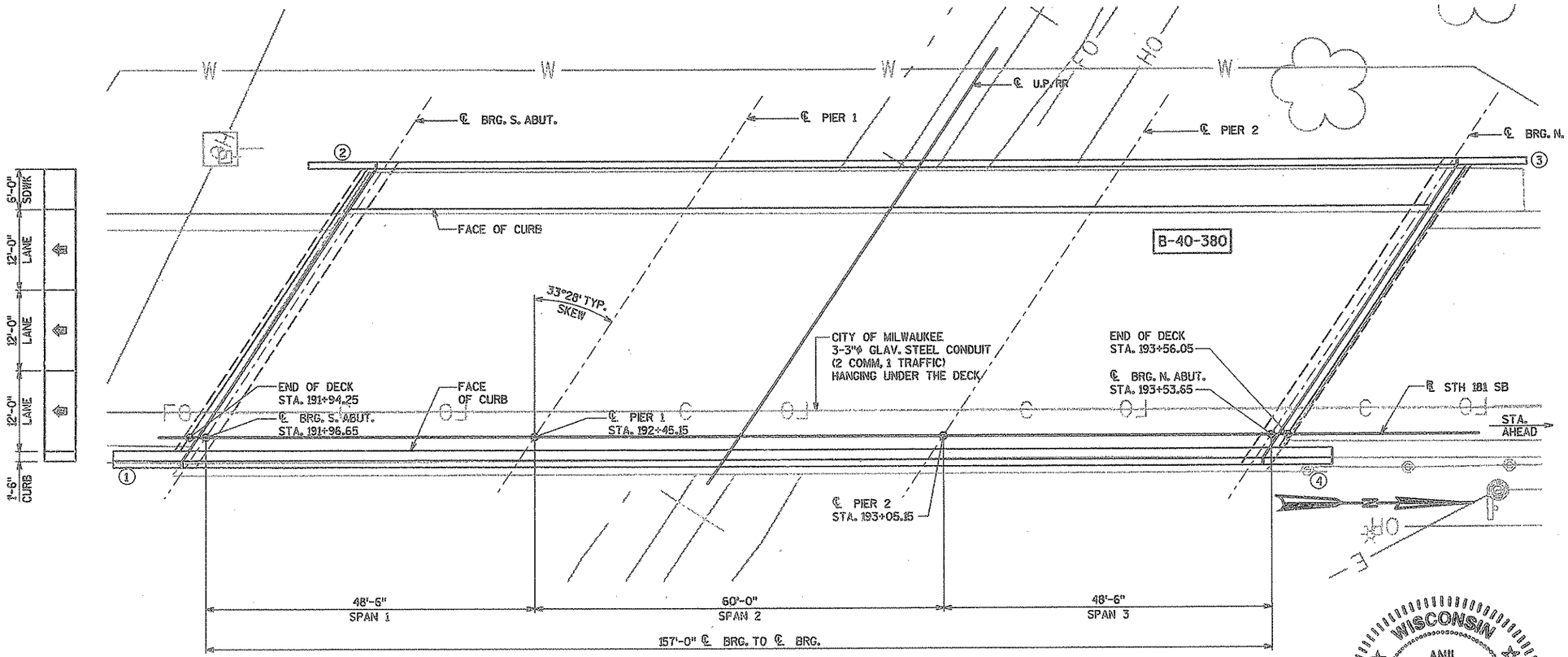
7

7

PROJECT NO: 2140-08-73	HWY: STH 181	COUNTY: MILWAUKEE	PERMANENT SIGNING	SHEET NO: 835	E

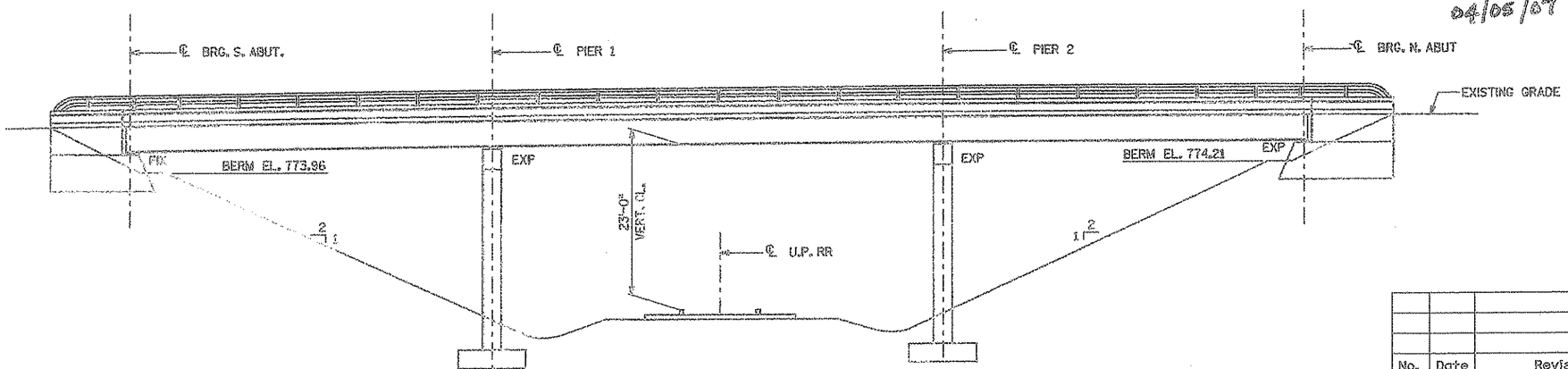
FILE NAME : C:\Users\Projects\tr_d2\21400873.dgn PLOT DATE : 12-OCT-2007 11:35 PLOT BY : ditjph PLOT NAME : PLOT SCALE : 23.985000:1.000000 WISDOT/CADDS SHEET 42

STATE PROJECT NUMBER
2140-08-73



PLAN

(THREE SPAN CONTINUOUS STEEL GIRDER BRIDGE)



ELEVATION

(LOOKING WEST)

GENERAL NOTES

DRAWINGS SHALL NOT BE SCALED.

ALL DETAILS, MATERIALS AND FABRICATION SHALL CONFORM TO THE STANDARD SPECIFICATIONS FOR HIGHWAY AND STRUCTURE CONSTRUCTION OF THE STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION, EDITION OF 2006, EXCEPT AS OTHERWISE NOTED.

ALL ELEVATIONS ARE REFERENCED TO THE NATIONAL GEODETIC VERTICAL DATUM (NGVD).

ALL STATIONS AND ELEVATIONS ARE IN FEET.

SUBTRACT 580.6 FT FROM THE ELEVATIONS SHOWN IN THESE PLANS TO CORRELATE WITH ELEVATIONS IN ORIGINAL STRUCTURE PLANS.

DIMENSIONS SHOWN ARE BASED ON THE ORIGINAL STRUCTURE PLANS.

INFORMATION ON THESE DRAWINGS RELATED TO THE EXISTING BRIDGE IS BASED UPON AVAILABLE DRAWINGS FROM THE WISCONSIN DEPARTMENT OF TRANSPORTATION. NO GUARANTY OR WARRANTY IS MADE THAT THE INFORMATION IS ALL INCLUSIVE OR TOTALLY ACCURATE. THEREFORE, THE CONTRACTOR SHALL MAKE HIS OWN DETERMINATION OF THE ACTUAL CONDITIONS TO BE ENCOUNTERED.

CLEAN AND FILL LONGITUDINAL AND TRANSVERSE CRACKS WITH PENETRATING EPOXY AS DIRECTED BY THE FIELD ENGINEER.

AT "CURB REPAIR" EXPOSE EXISTING REINFORCEMENT A MINIMUM OF 1½" CLEAR.

UTILIZE EXISTING BAR STEEL REINF. WHERE APPLICABLE AND EXTEND 24 BAR DIAMETERS INTO NEW WORK.

UTILITIES SHOWN ON THESE PLANS ARE BASED ON EXISTING DRAWINGS. THE CONTRACTOR SHALL MAKE HIS OWN DETERMINATION OF THE TYPE, LOCATION AND ACTUAL CONDITION OF THE HANGING UTILITIES.

(X) WINGWALL NUMBER

WISCONSIN
ANIL KURIAN
E-37627
MILWAUKEE, WI
PROFESSIONAL ENGINEER
Anil Kurian
04/05/07

LIST OF DRAWINGS

1. GENERAL PLAN AND ELEVATION
2. TYPICAL SECTION AND ESTIMATE OF QUANTITIES
3. NORTH ABUTMENT AND WINGWALL REPAIR DETAILS
4. SOUTH ABUTMENT AND WINGWALL REPAIR DETAILS
5. SIDEWALK REPAIR DETAILS
6. PARAPET REPAIR DETAILS

NO.	DATE	REVISION	BY

WISDOT
BUREAU OF STRUCTURES
APPROVED William C Dahm SDR 10-11-07
CHIEF STRUCTURAL DESIGN ENGINEER DATE

STRUCTURE B-40-380

STH 181 (SB) OVER U.P. RR

COUNTY	MILWAUKEE	CITY	MILWAUKEE	
DESIGN SPEC.	AASHTO 2002	LOAD	HS-20	CONST. SPEC. 2006
DESIGNED BY	YB	DESIGN CK'D.	RJW	DRAWN BY TAL / PLANS CK'D. YB

GENERAL PLAN AND ELEVATION

836 1 OF 6
DATE 836
APRIL, 2007

No.	Date	Revisions	By

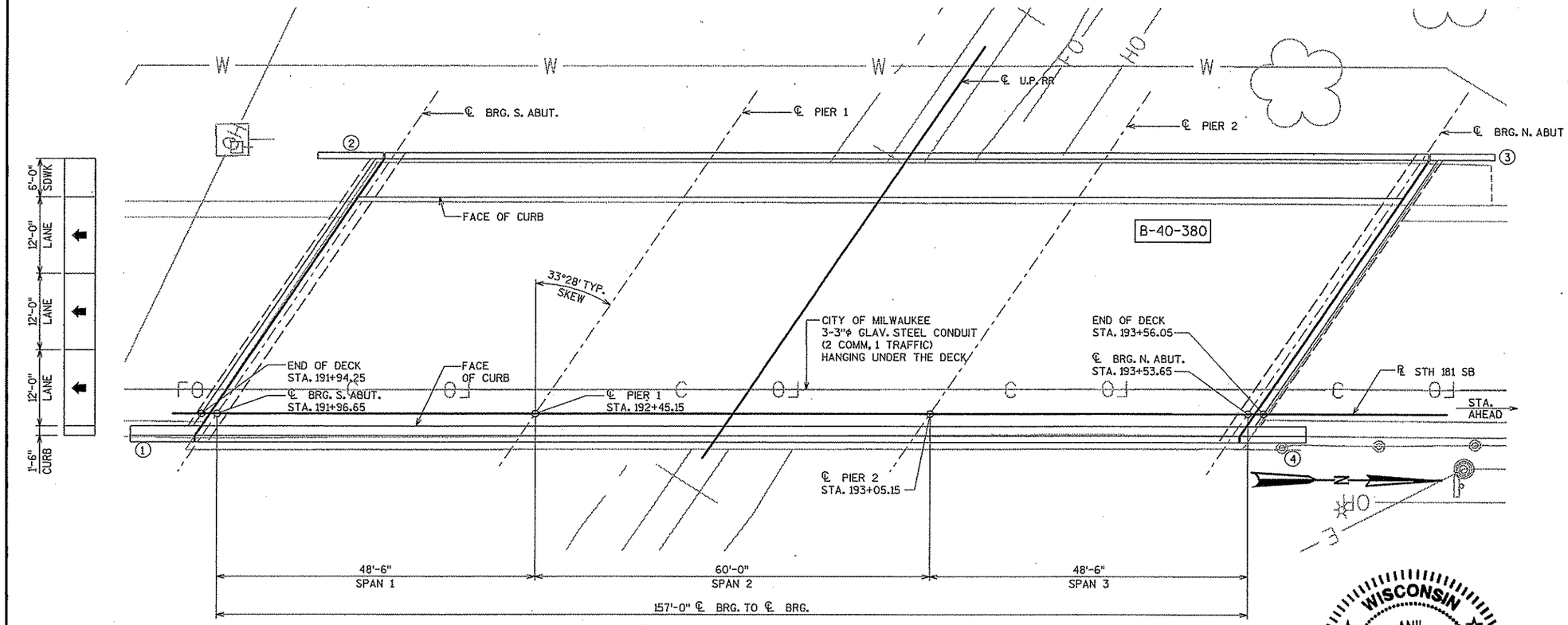
BLOOM CONSULTANTS, LLC
ENGINEERS PLANNERS SCIENTISTS
5420 S. Westridge Drive ◆ New Berlin, WI 53151
Phone: (414) 771-3390 Fax: (414) 771-4490

CONTACTS

BLOOM CONSULTANTS, LLC
BOB WYSOCKI: (414) 771-3390

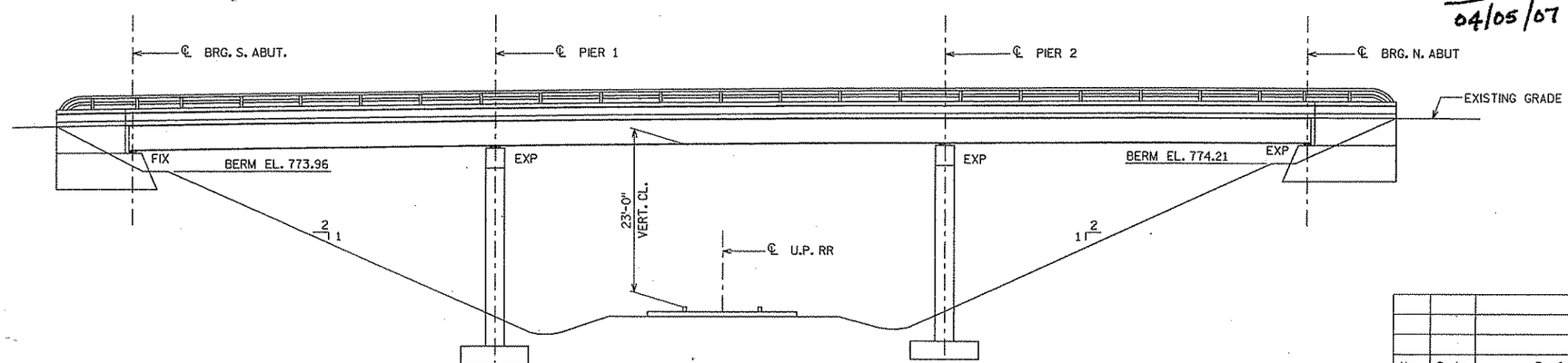
BRIDGE OFFICE CONTACT:
BILL DREHER: (608) 261-8205

STATE PROJECT NUMBER
2140-08-73



PLAN

(THREE SPAN CONTINUOUS STEEL GIRDER BRIDGE)



ELEVATION

(LOOKING WEST)

GENERAL NOTES

DRAWINGS SHALL NOT BE SCALED.

ALL DETAILS, MATERIALS AND FABRICATION SHALL CONFORM TO THE STANDARD SPECIFICATIONS FOR HIGHWAY AND STRUCTURE CONSTRUCTION OF THE STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION, EDITION OF 2006, EXCEPT AS OTHERWISE NOTED.

ALL ELEVATIONS ARE REFERENCED TO THE NATIONAL GEODETIC VERTICAL DATUM (NGVD).

ALL STATIONS AND ELEVATIONS ARE IN FEET.

SUBTRACT 580.6 FT FROM THE ELEVATIONS SHOWN IN THESE PLANS TO CORRELATE WITH ELEVATIONS IN ORIGINAL STRUCTURE PLANS.

DIMENSIONS SHOWN ARE BASED ON THE ORIGINAL STRUCTURE PLANS.

INFORMATION ON THESE DRAWINGS RELATED TO THE EXISTING BRIDGE IS BASED UPON AVAILABLE DRAWINGS FROM THE WISCONSIN DEPARTMENT OF TRANSPORTATION, NO GUARANTY OR WARRANTY IS MADE THAT THE INFORMATION IS ALL INCLUSIVE OR TOTALLY ACCURATE, THEREFORE, THE CONTRACTOR SHALL MAKE HIS OWN DETERMINATION OF THE ACTUAL CONDITIONS TO BE ENCOUNTERED.

CLEAN AND FILL LONGITUDINAL AND TRANSVERSE CRACKS WITH PENETRATING EPOXY AS DIRECTED BY THE FIELD ENGINEER.

AT "CURB REPAIR" EXPOSE EXISTING REINFORCEMENT A MINIMUM OF 1½" CLEAR.

UTILIZE EXISTING BAR STEEL REINF. WHERE APPLICABLE AND EXTEND 24 BAR DIAMETERS INTO NEW WORK.

UTILITIES SHOWN ON THESE PLANS ARE BASED ON EXISTING DRAWINGS. THE CONTRACTOR SHALL MAKE HIS OWN DETERMINATION OF THE TYPE, LOCATION AND ACTUAL CONDITION OF THE HANGING UTILITIES.

(X) WINGWALL NUMBER

WISCONSIN
ANIL KURIAN
E-37627
MILWAUKEE, WI
PROFESSIONAL ENGINEER
04/05/07

LIST OF DRAWINGS

1. GENERAL PLAN AND ELEVATION
2. TYPICAL SECTION AND ESTIMATE OF QUANTITIES
3. NORTH ABUTMENT AND WINGWALL REPAIR DETAILS
4. SOUTH ABUTMENT AND WINGWALL REPAIR DETAILS
5. SIDEWALK REPAIR DETAILS
6. PARAPET REPAIR DETAILS

No.	Date	Revisions	By

BLOOM CONSULTANTS, LLC
ENGINEERS PLANNERS SCIENTISTS
5420 S. Westridge Drive ♦ New Berlin, WI 53151
Phone: (414) 771-3390 Fax: (414) 771-4490

CONTACTS

BLOOM CONSULTANTS, LLC
BOB WYSOCKI: (414) 771-3390

BRIDGE OFFICE CONTACT:
BILL DREHER: (608) 261-8205

NO.	DATE	REVISION	BY

WISDOT
BUREAU OF STRUCTURES

APPROVED _____ DATE _____
CHIEF STRUCTURAL DESIGN ENGINEER

STRUCTURE B-40-380

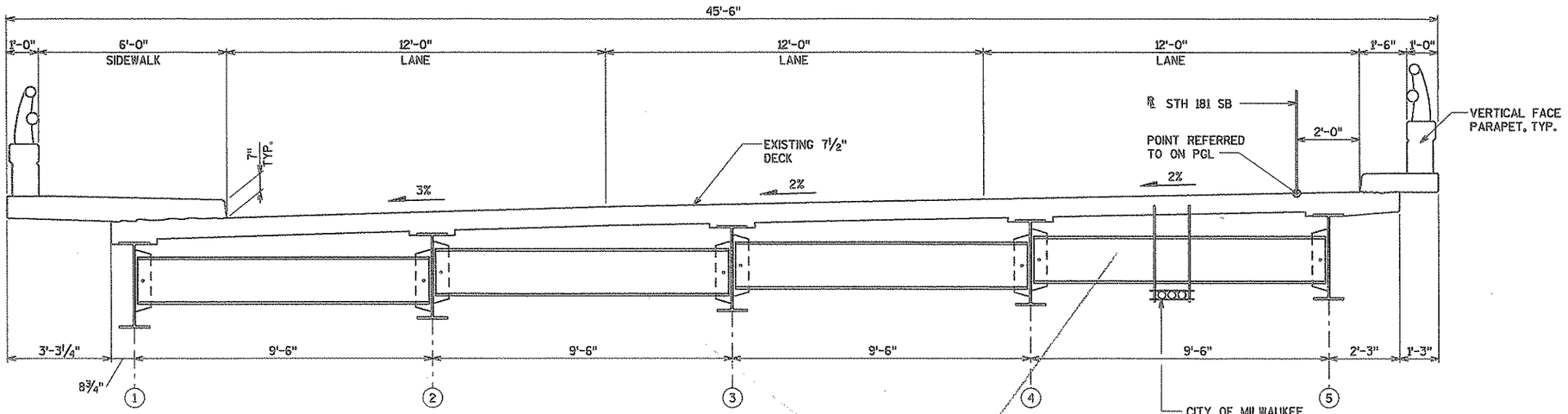
STH 181 (SB) OVER U.P. RR

COUNTY MILWAUKEE		CITY MILWAUKEE	
DESIGN SPEC. AASHTO 2002	LOAD HS-20	CONST. SPEC. 2006	
DESIGNED BY YB	DESIGN CK'D. RJW	DRAWN BY TAL	PLANS CK'D. YB

GENERAL PLAN AND ELEVATION

SHEET 1 OF 6
DATE: APRIL, 2007

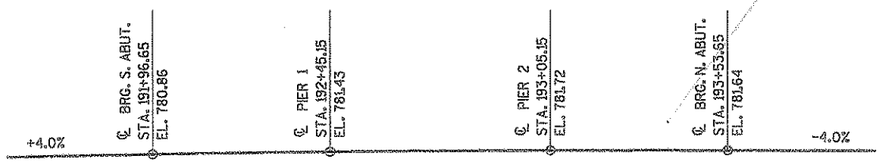
8336 A



TYPICAL SECTION

(LOOKING NORTH)

NOTE: ALL DIMENSIONS ARE MADE NORMAL TO ℄.



EXISTING PROFILE GRADE LINE STH 181 (1995)

DESIGN DATA

ULTIMATE DESIGN STRESSES

CONCRETE MASONRY:.....f'c = 4,000 PSI
BAR STEEL REINFORCEMENT:.....fy = 60,000 PSI

LIVE LOAD RATING

INVENTORY RATING - HS 21 (1995)
OPERATING RATING - HS 36 (1995)
MAX. STD. PERMIT VEHICLE LOAD 200 kips (1995)

TRAFFIC DATA

N. 76TH ST. NB, SB : ADT (2001) = 21,700
DESIGN SPEED = 40 MPH

BRIDGE WORK NOTES

THE EXISTING STEEL GIRDERS, DIAPHRAGMS AND BEARINGS SHALL BE CLEANED AND REPAINTED, AND THE EXISTING CURBS, SIDEWALK, ABUTMENTS, AND WINGWALLS CONCRETE SURFACE SHALL BE REPAIRED PER CURRENT DETAILS. THE BRIDGE CONTRACTOR SHALL COORDINATE WITH THE CITY OF MILWAUKEE, WIS DOT SE REGION OFFICE, AND UNION PACIFIC RAILROAD TO ESTABLISH CONSTRUCTION SCHEDULES.

THE CONSTRUCTION PROCEDURE SHALL PREVENT DAMAGE TO THE UNDERPASSING RAILROAD. TRAFFIC CONTROL DURING THE SUPERSTRUCTURE REHABILITATION IF REQUIRED SHALL BE APPROVED BY THE ENGINEER.

THE BRIDGE CONTRACTOR SHALL COORDINATE WITH THE ROADWAY CONTRACTOR TO ESTABLISH CONSTRUCTION SCHEDULES.

THE EXISTING BRIDGE PLANS ARE ON FILE AND ARE AVAILABLE FOR INSPECTION AT THE WISCONSIN DEPARTMENT OF TRANSPORTATION, SOUTHEAST REGION, 141 NW BARSTOW ST WAUKESHA, WI. 53187-0789.

THE CONTRACTOR IS RESPONSIBLE FOR THE FIELD INVESTIGATION AND TEMPORARY RELOCATION OF ALL THE UTILITIES LOCATED IN CONSTRUCTION AREA.

TOTAL ESTIMATE OF QUANTITIES

BID ITEMS	UNIT	NORTH ABUTMENT	SOUTH ABUTMENT	SUPER-STRUCTURE	TOTAL
CONCRETE SURFACE REPAIR *	SF	32	20	109	161
STRUCTURE REPAINTING RECYCLED ABRASIVE STRUCTURE B-40-380	LS	-	-	-	1
NEGATIVE PRESSURE CONTAINMENT AND COLLECTION OF WASTE MATERIALS STRUCTURE B-40-380	LS	-	-	-	1
UTILITY PROTECTION STRUCTURE B-40-380 CITY OF MILWAUKEE	LS	-	-	-	1
DEBRIS CONTAINMENT STRUCTURE B-40-380	LS	-	-	-	1
STRUCTURE OVERCOATING CLEANING AND PRIMING STRUCTURE B-40-380	LS	-	-	-	1

* EXACT QUANTITIES OF ITEMS "CONCRETE SURFACE REPAIR" TO BE MEASURED / VERIFIED IN THE FIELD AND APPROVED BY THE ENGINEER.

STATE PROJECT NUMBER
2140-08-73

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
STRUCTURES DESIGN SECTION

STRUCTURE B-40-380

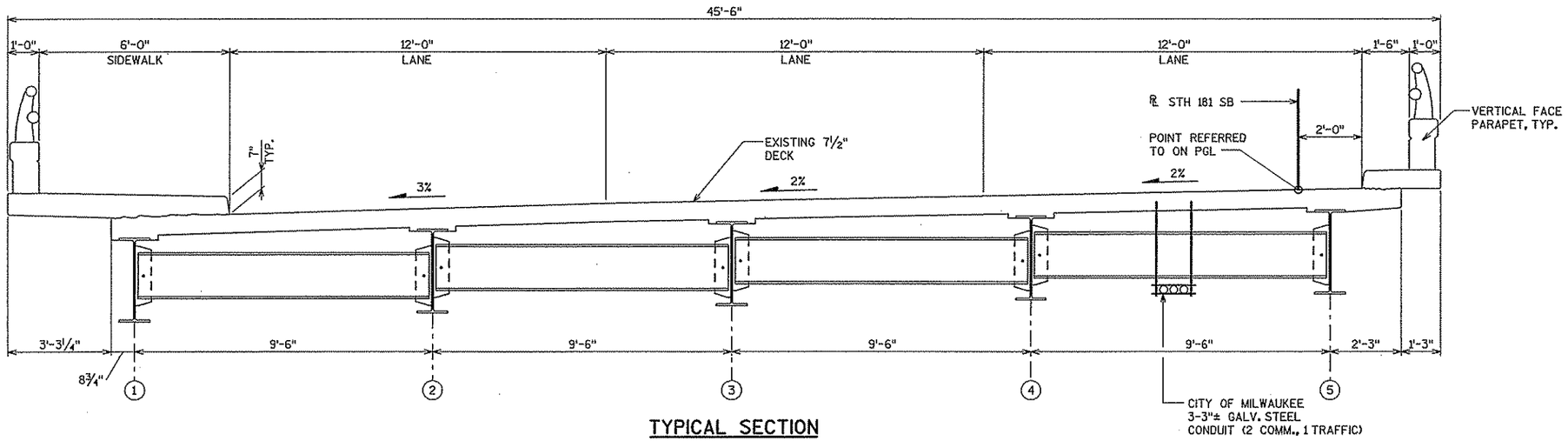
CONST. SPEC.	DRAWN BY	PLANS CK'D.
2006	TAL	YB

TYPICAL SECTION AND ESTIMATE OF QUANTITIES

SHEET 2 OF 6
857

8

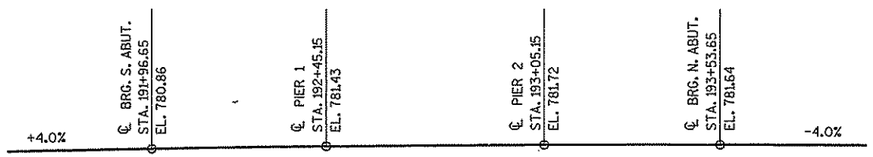
8



TYPICAL SECTION

(LOOKING NORTH)

NOTE: ALL DIMENSIONS ARE MADE NORMAL TO ℄.



EXISTING PROFILE GRADE LINE STH 181 (1995)

STATE PROJECT NUMBER

2140-08-73

DESIGN DATA

ULTIMATE DESIGN STRESSES

CONCRETE MASONRY:.....f'c = 4,000 PSI
BAR STEEL REINFORCEMENT:.....fy = 60,000 PSI

LIVE LOAD RATING

INVENTORY RATING - HS 21 (1995)
OPERATING RATING - HS 36 (1995)
MAX. STD. PERMIT VEHICLE LOAD 200 kips (1995)

TRAFFIC DATA

N. 76TH ST. NB, SB : ADT (2001) = 21,700
DESIGN SPEED = 40 MPH

BRIDGE WORK NOTES

THE EXISTING STEEL GIRDERS, DIAPHRAGMS AND BEARINGS SHALL BE CLEANED AND REPAINTED, AND THE EXISTING CURBS, SIDEWALK, ABUTMENTS, AND WINGWALLS CONCRETE SURFACE SHALL BE REPAIRED PER CURRENT DETAILS. THE BRIDGE CONTRACTOR SHALL COORDINATE WITH THE CITY OF MILWAUKEE, WIS DOT SE REGION OFFICE, AND UNION PACIFIC RAILROAD TO ESTABLISH CONSTRUCTION SCHEDULES.

THE CONSTRUCTION PROCEDURE SHALL PREVENT DAMAGE TO THE UNDERPASSING RAILROAD. TRAFFIC CONTROL DURING THE SUPERSTRUCTURE REHABILITATION IF REQUIRED SHALL BE APPROVED BY THE ENGINEER.

THE BRIDGE CONTRACTOR SHALL COORDINATE WITH THE ROADWAY CONTRACTOR TO ESTABLISH CONSTRUCTION SCHEDULES.

THE EXISTING BRIDGE PLANS ARE ON FILE AND ARE AVAILABLE FOR INSPECTION AT THE WISCONSIN DEPARTMENT OF TRANSPORTATION, SOUTHEAST REGION, 141 NW BARSTOW ST WAUKESHA, WI. 53187-0789.

THE CONTRACTOR IS RESPONSIBLE FOR THE FIELD INVESTIGATION AND TEMPORARY RELOCATION OF ALL THE UTILITIES LOCATED IN CONSTRUCTION AREA.

TOTAL ESTIMATE OF QUANTITIES

BID ITEMS	UNIT	NORTH ABUTMENT	SOUTH ABUTMENT	SUPER-STRUCTURE	TOTAL
CONCRETE SURFACE REPAIR *	SF	32	20	109	161
STRUCTURE REPAINTING RECYCLED ABRASIVE STRUCTURE B-40-380	LS	-	-	-	1
NEGATIVE PRESSURE CONTAINMENT AND COLLECTION OF WASTE MATERIALS STRUCTURE B-40-380	LS	-	-	-	1
UTILITY PROTECTION STRUCTURE B-40-380 CITY OF MILWAUKEE	LS	-	-	-	1
DEBRIS CONTAINMENT STRUCTURE B-40-380	LS	-	-	-	1
STRUCTURE OVERCOATING CLEANING AND PRIMING STRUCTURE B-40-380	LS	-	-	-	1

* EXACT QUANTITIES OF ITEMS "CONCRETE SURFACE REPAIR" TO BE MEASURED / VERIFIED IN THE FIELD AND APPROVED BY THE ENGINEER.

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
STRUCTURES DESIGN SECTION

STRUCTURE B-40-380

CONST. SPEC.	2006	DRAWN BY	TAL	PLANS CK'D.	YB

TYPICAL SECTION AND ESTIMATE OF QUANTITIES

SHEET 2 OF 6

837A

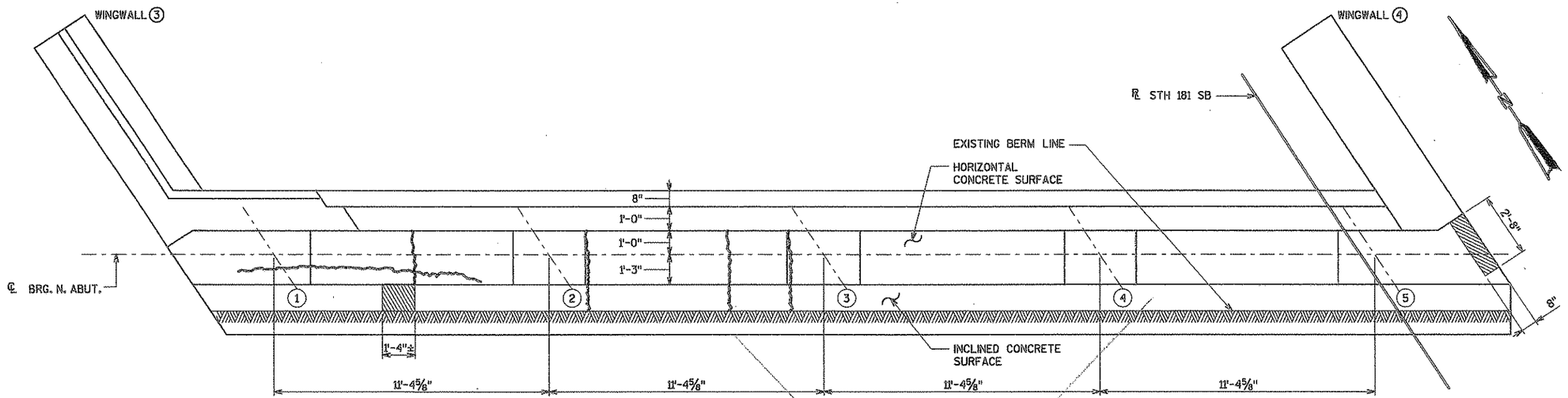
8

8

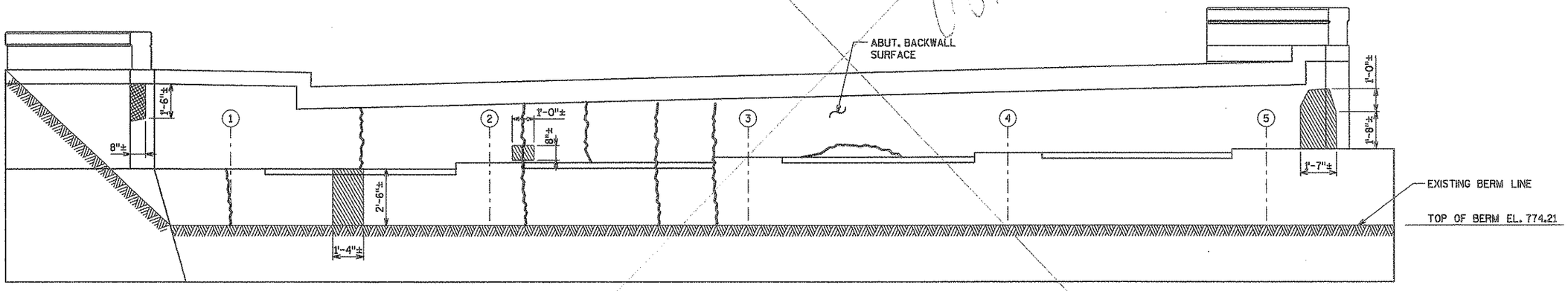
FILE NAME: DGN$SPEC$$$

STATE PROJECT NUMBER

2140-08-73

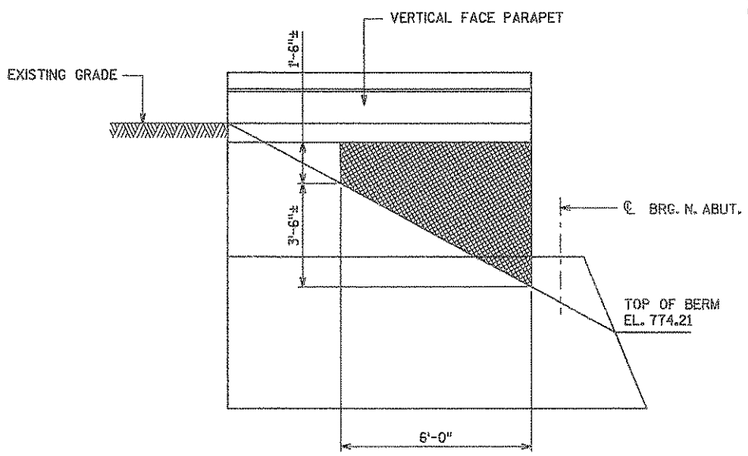


PLAN



ELEVATION

(LOOKING NORTH)



ELEVATION WING 3

(LOOKING EAST)

LEGEND

- (X) GIRDER NUMBER
- INDICATES CRACKS TO BE SEALED WITH PENETRATING EPOXY
- SPALL - AREA OF CONCRETE SURFACE REPAIR
- SPALL WITH EXPOSED REBAR- AREA OF CONCRETE SURFACE REPAIR

NOTE

THE EXACT AMOUNT AND LOCATIONS OF SURFACE REPAIR SHALL BE VERIFIED BY FIELD ENGINEER.

VOID

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
STRUCTURES DESIGN SECTION

STRUCTURE B-40-380

CONST. SPEC.	2006	DRAWN BY	TAL	PLANS CK'D.	YB

NORTH ABUTMENT AND WINGWALL REPAIR DETAILS

SHEET 3 OF 6

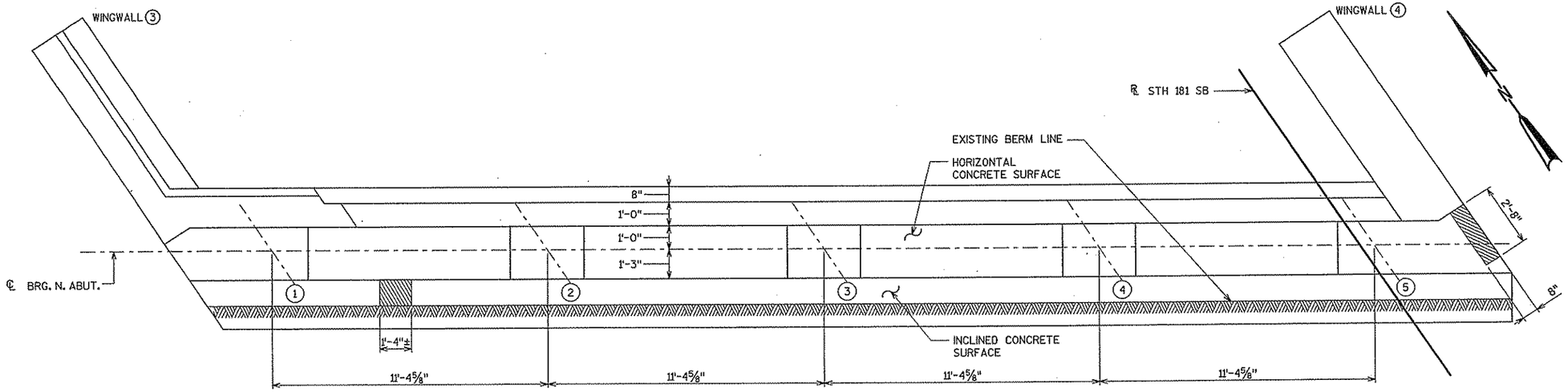
838

8

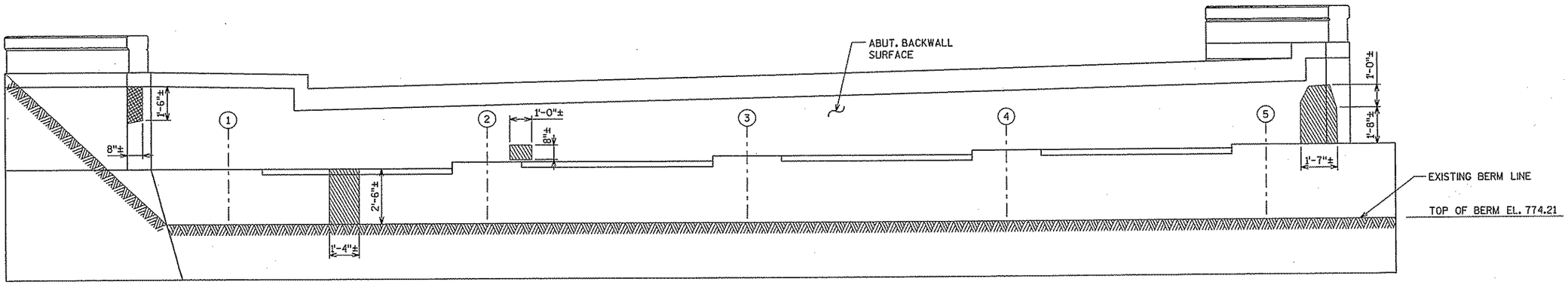
8

STATE PROJECT NUMBER

2140-08-73

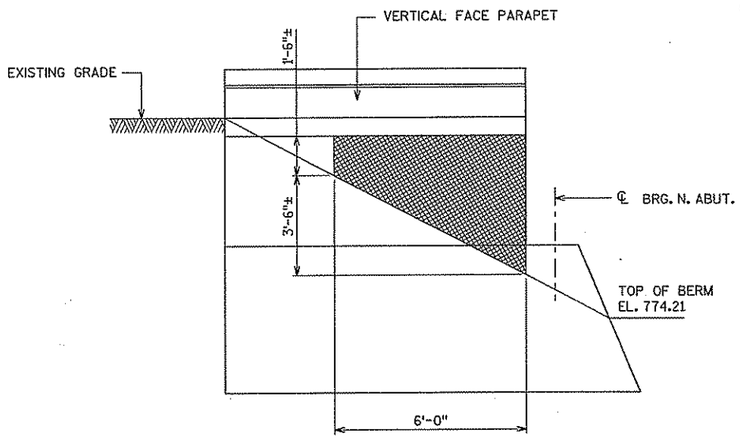


PLAN



ELEVATION

(LOOKING NORTH)



ELEVATION WING 3

(LOOKING EAST)

LEGEND

(X) GIRDER NUMBER

SPALL - AREA OF CONCRETE SURFACE REPAIR

SPALL WITH EXPOSED REBAR-AREA OF CONCRETE SURFACE REPAIR

NOTE

THE EXACT AMOUNT AND LOCATIONS OF SURFACE REPAIR SHALL BE VERIFIED BY FIELD ENGINEER.

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
STRUCTURES DESIGN SECTION

STRUCTURE B-40-380

CONST. SPEC.	2006	DRAWN BY	TAL	PLANS CK'D.	YB

NORTH ABUTMENT AND WINGWALL REPAIR DETAILS

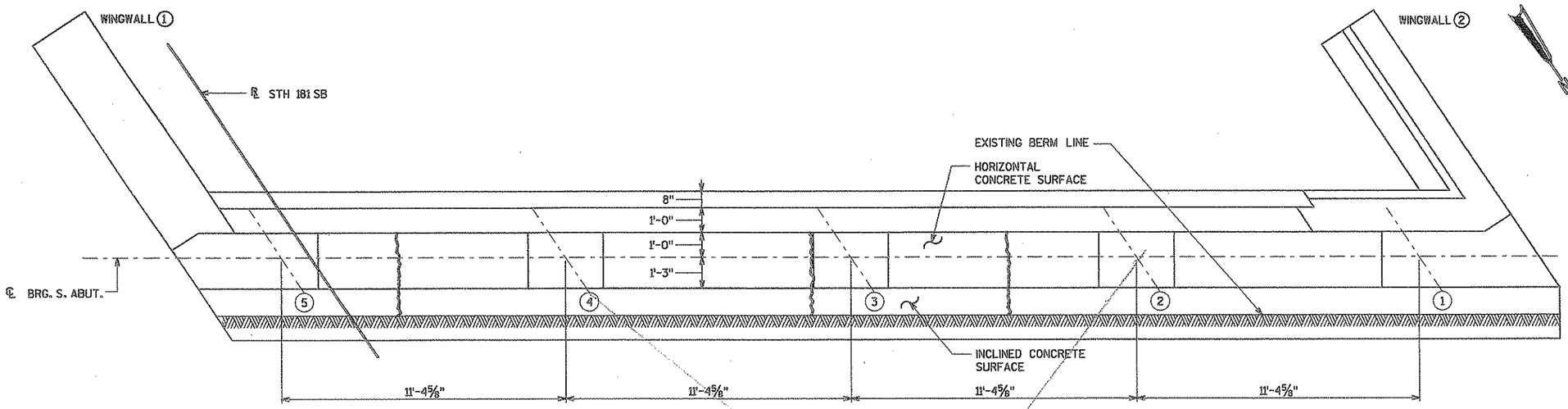
SHEET 3 OF 6

B38A

8

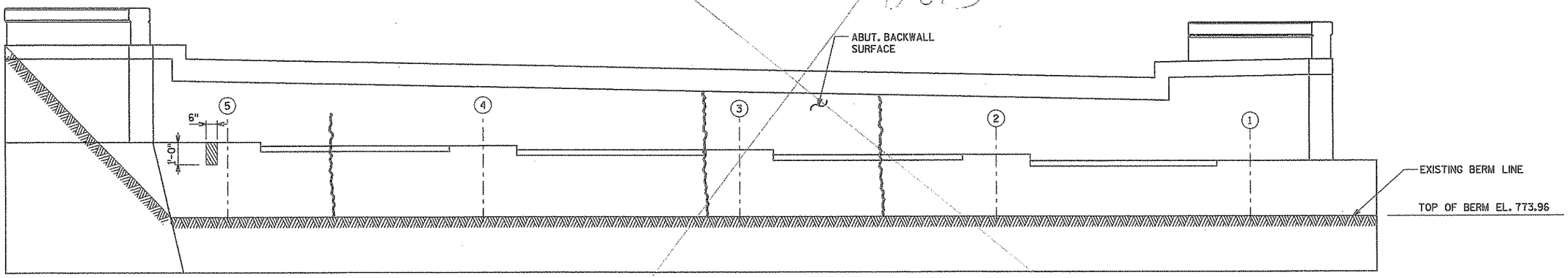
8

STATE PROJECT NUMBER
2140-08-73

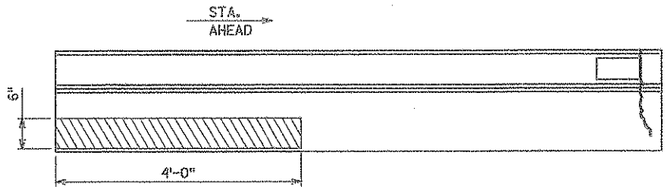


PLAN

VOID

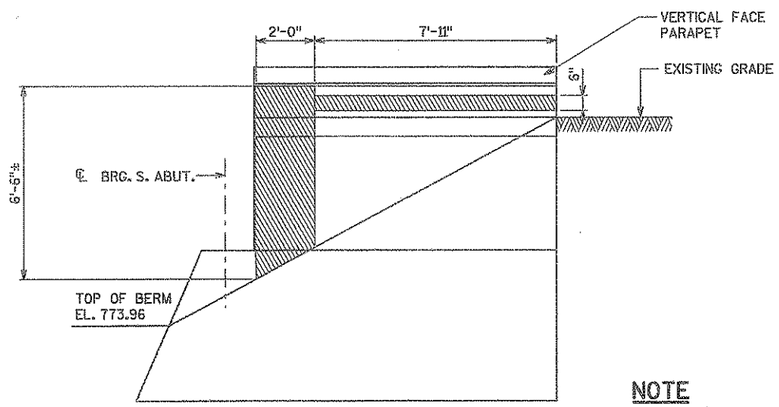


ELEVATION
(LOOKING SOUTH)



INSIDE FACE OF PARAPET

ELEVATION WINGWALL 1
(LOOKING EAST)



ELEVATION WINGWALL 2
(LOOKING EAST)

LEGEND

- (X) GIRDER NUMBER
- INDICATES CRACKS TO BE SEALED WITH PENETRATING EPOXY
- SPALL - AREA OF CONCRETE SURFACE REPAIR
- SPALL WITH EXPOSED REBAR-AREA OF CONCRETE SURFACE REPAIR

NOTE

THE EXACT AMOUNT AND LOCATIONS OF SURFACE REPAIR SHALL BE VERIFIED BY FIELD ENGINEER.

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
STRUCTURES DESIGN SECTION

STRUCTURE B-40-380

CONST. SPEC.	2006	DRAWN BY	TAL	PLANS CK'D.	YB

SOUTH ABUTMENT AND WINGWALL REPAIR DETAILS

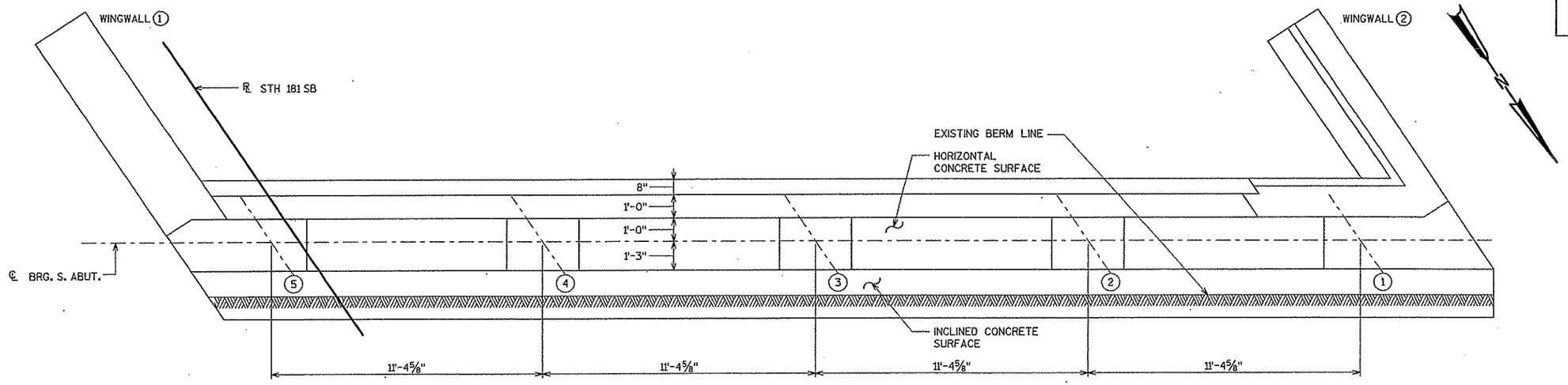
SHEET 4 OF 6
839

8

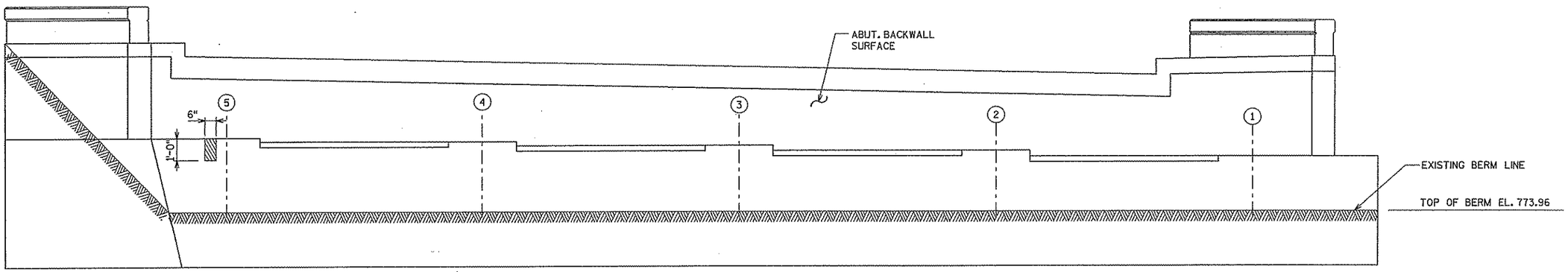
8

STATE PROJECT NUMBER

2140-08-73

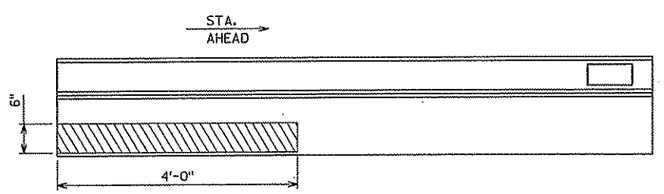


PLAN



ELEVATION

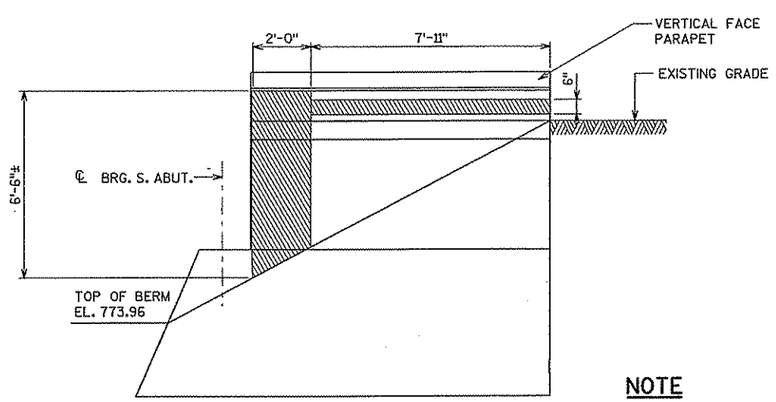
(LOOKING SOUTH)



INSIDE FACE OF PARAPET

ELEVATION WINGWALL 1

(LOOKING EAST)



ELEVATION WINGWALL 2

(LOOKING EAST)

NOTE

THE EXACT AMOUNT AND LOCATIONS OF SURFACE REPAIR SHALL BE VERIFIED BY FIELD ENGINEER.

LEGEND

- (X) GIRDER NUMBER
- SPALL - AREA OF CONCRETE SURFACE REPAIR
- SPALL WITH EXPOSED REBAR- AREA OF CONCRETE SURFACE REPAIR

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
STRUCTURES DESIGN SECTION

STRUCTURE B-40-380

CONST. SPEC.	2006	DRAWN BY	TAL	PLANS CK'D.	YB

SOUTH ABUTMENT AND WINGWALL REPAIR DETAILS

SHEET 4 OF 6

839A

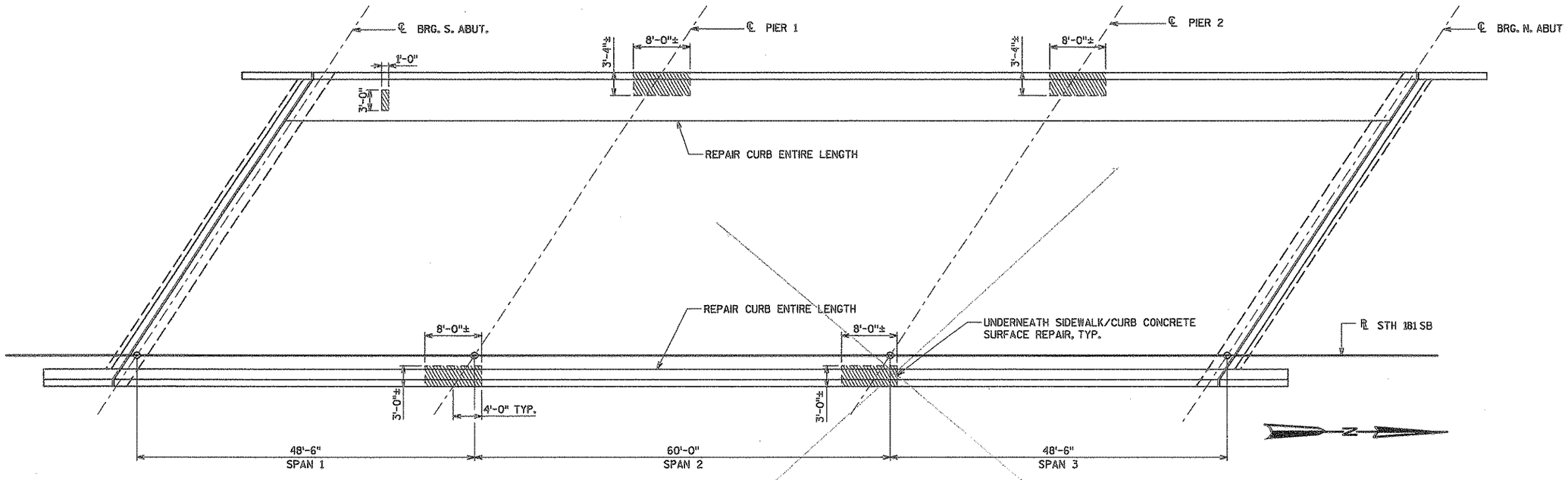
8

8

FILE NAME: 03-04_380-Abuts.dgn PEN TABLE: v8_Structural_rev.tbl DATE: 6/25/2007 11:05:51 AM Plotted by: tlegear

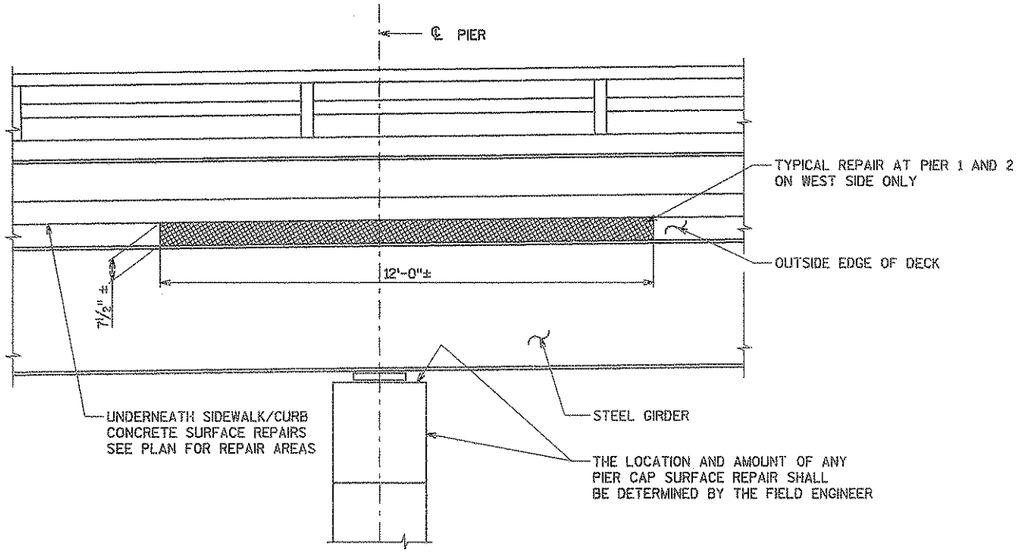
STATE PROJECT NUMBER

2140-08-73



PLAN

VOID



ELEVATION
ABOVE PIER 1 AND 2

NOTE

THE EXACT AMOUNT AND LOCATIONS OF SURFACE REPAIR SHALL BE VERIFIED BY FIELD ENGINEER.

LEGEND

- INDICATES CRACKS TO BE SEALED WITH PENETRATING EPOXY
- SPALL - AREA OF CONCRETE SURFACE REPAIR
- SPALL WITH EXPOSED REBAR- AREA OF CONCRETE SURFACE REPAIR

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
STRUCTURES DESIGN SECTION

STRUCTURE B-40-380

CONST. SPEC.	DRAWN BY	PLANS CK'D.
2006	TAL	YB

SIDEWALK REPAIR DETAILS

SHEET 5 OF 6

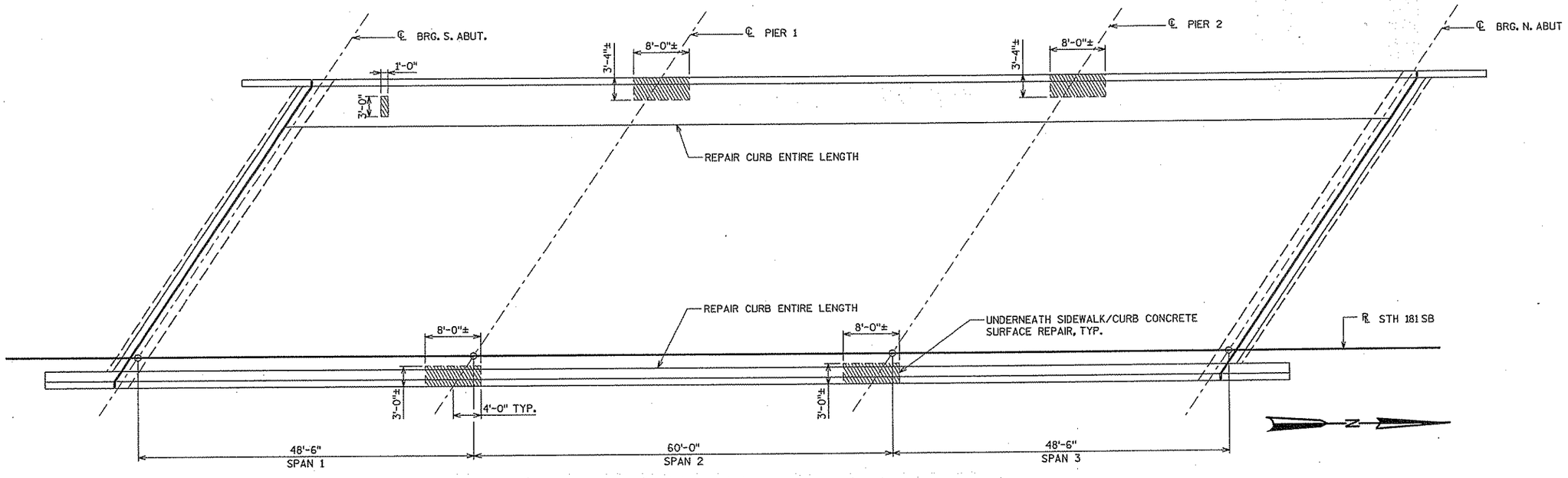
840

8

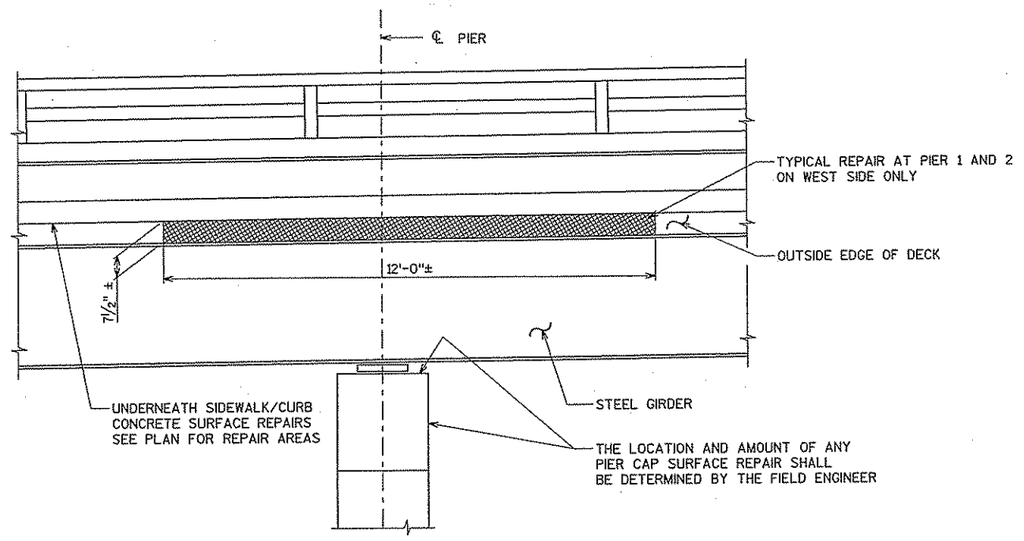
8

STATE PROJECT NUMBER

2140-08-73



PLAN



ELEVATION ABOVE PIER 1 AND 2

LEGEND

SPALL - AREA OF CONCRETE SURFACE REPAIR

SPALL WITH EXPOSED REBAR-AREA OF CONCRETE SURFACE REPAIR

NOTE

THE EXACT AMOUNT AND LOCATIONS OF SURFACE REPAIR SHALL BE VERIFIED BY FIELD ENGINEER.

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
STRUCTURES DESIGN SECTION

STRUCTURE B-40-380

CONST. SPEC.	2006	DRAWN BY	TAL	PLANS CK'D.	YB

SIDEWALK REPAIR DETAILS

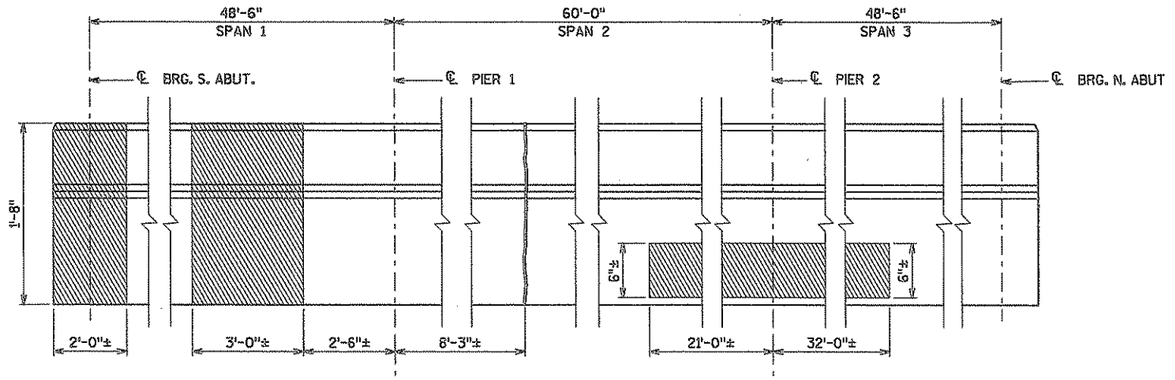
SHEET 5 OF 6

840A

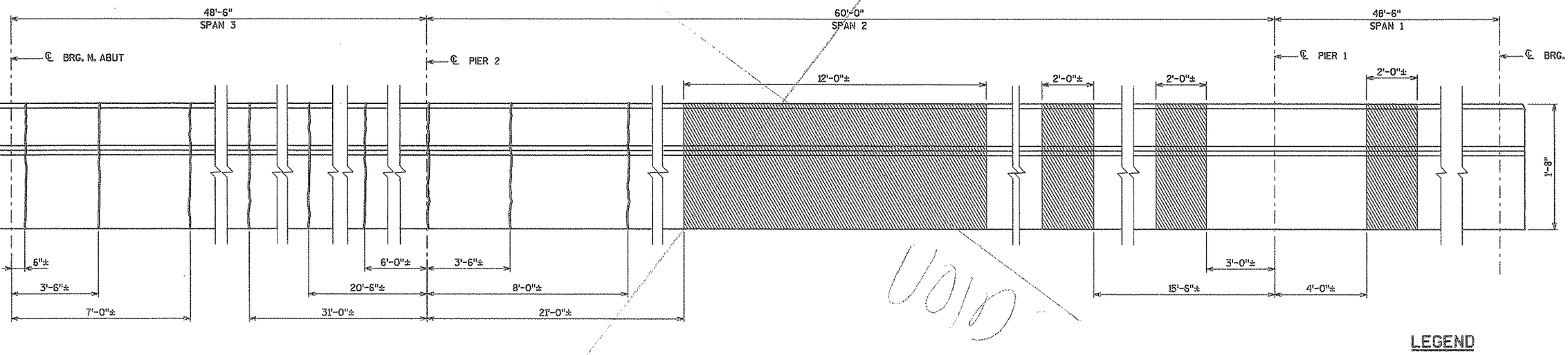
8

8

STATE PROJECT NUMBER
2140-08-73



WEST PARAPET INSIDE FACE



EAST PARAPET INSIDE FACE

LEGEND

- INDICATES CRACKS TO BE SEALED WITH PENETRATING EPOXY
- SPALL - AREA OF CONCRETE SURFACE REPAIR
- SPALL WITH EXPOSED REBAR- AREA OF CONCRETE SURFACE REPAIR

NOTES

SEE SHEET 4 FOR PARAPET ON WINGWALL REPAIRS.

THE EXACT AMOUNT AND LOCATIONS OF SURFACE REPAIR SHALL BE VERIFIED BY FIELD ENGINEER.

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
STRUCTURES DESIGN SECTION

STRUCTURE B-40-380

CONST. SPEC.	2006	DRAWN BY	TAL	PLANS CK'D.	YB

PARAPET REPAIR DETAILS

SHEET 6 OF 6

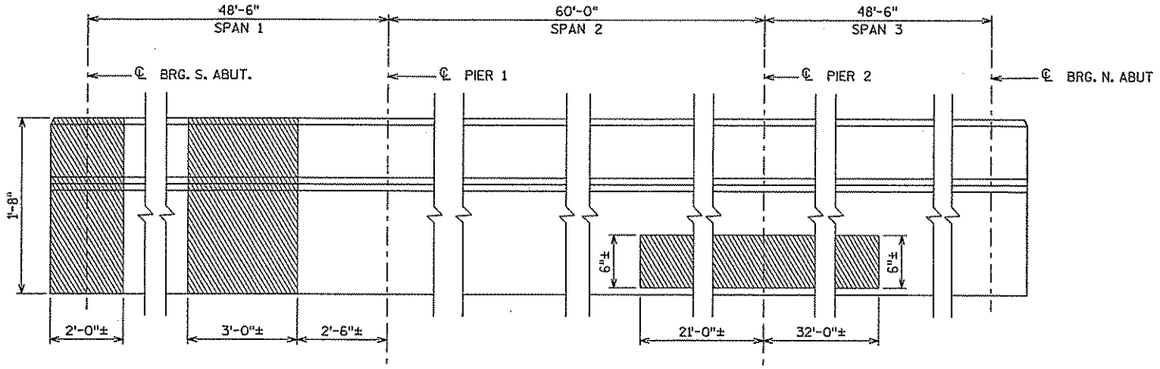
841

8

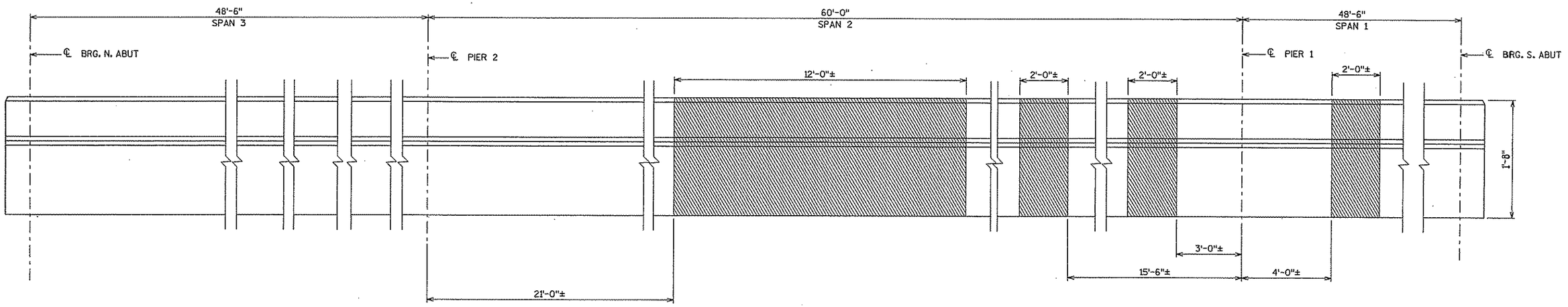
8

STATE PROJECT NUMBER

2140-08-73



WEST PARAPET INSIDE FACE



EAST PARAPET INSIDE FACE

LEGEND

SPALL - AREA OF CONCRETE SURFACE REPAIR

SPALL WITH EXPOSED REBAR- AREA OF CONCRETE SURFACE REPAIR

NOTES

SEE SHEET 4 FOR PARAPET ON WINGWALL REPAIRS.

THE EXACT AMOUNT AND LOCATIONS OF SURFACE REPAIR SHALL BE VERIFIED BY FIELD ENGINEER.

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
STRUCTURES DESIGN SECTION

STRUCTURE B-40-380

CONST. SPEC.	2006	DRAWN BY	TAL	PLANS CK'D.	YB

PARAPET REPAIR DETAILS

SHEET 6 OF 6

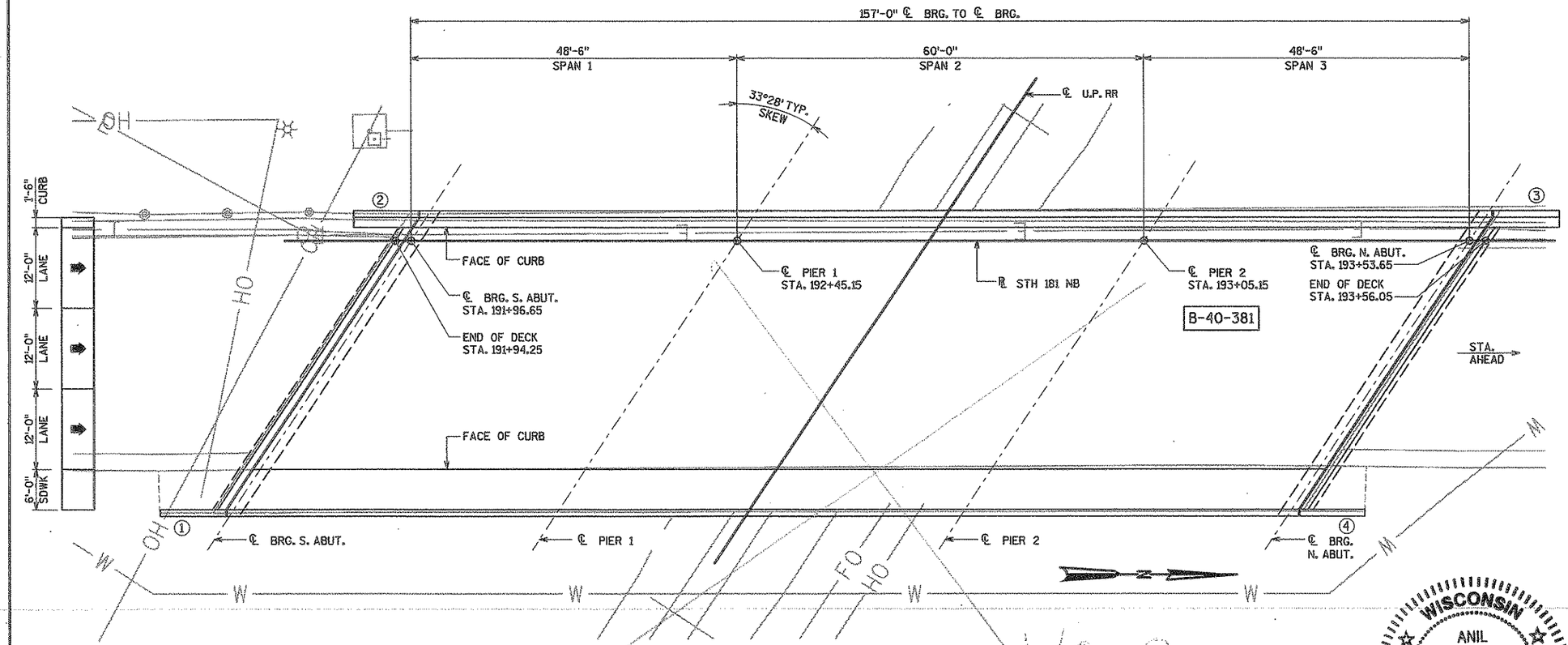
84A

8

8

STATE PROJECT NUMBER

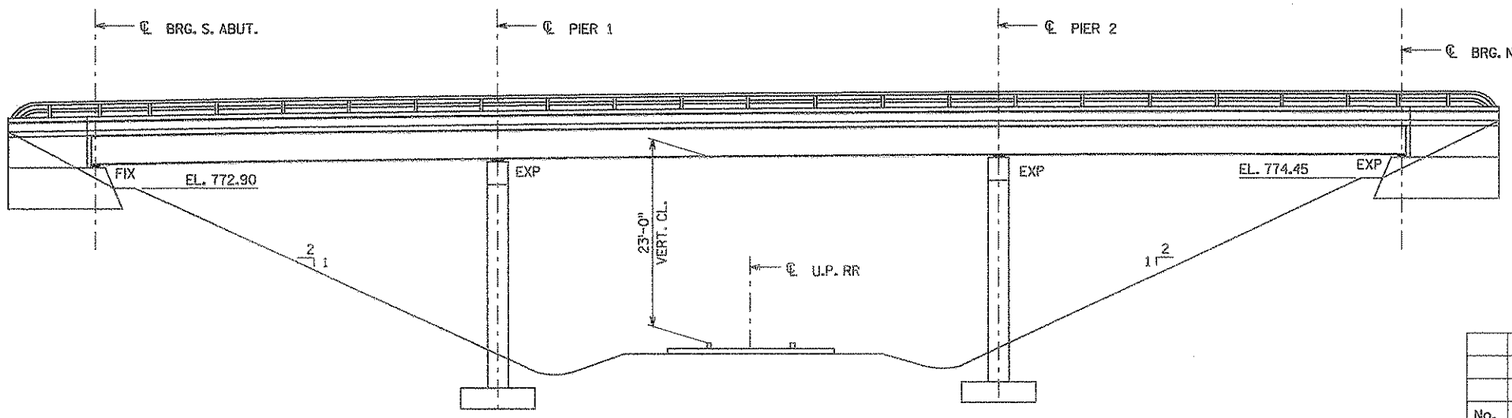
2140-08-73



PLAN

(THREE SPAN CONTINUOUS STEEL GIRDER BRIDGE)

VOID



ELEVATION

(LOOKING WEST)

GENERAL NOTES

DRAWINGS SHALL NOT BE SCALED.

ALL DETAILS, MATERIALS AND FABRICATION SHALL CONFORM TO THE STANDARD SPECIFICATIONS FOR HIGHWAY AND STRUCTURE CONSTRUCTION OF THE STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION, EDITION OF 2006, EXCEPT AS OTHERWISE NOTED.

ALL ELEVATIONS ARE REFERENCED TO THE NATIONAL GEODETIC VERTICAL DATUM (NGVD).

ALL STATIONS AND ELEVATIONS ARE IN FEET.

SUBTRACT 580.6 FT FROM THE ELEVATIONS SHOWN IN THESE PLANS TO CORRELATE WITH ELEVATIONS IN ORIGINAL STRUCTURE PLANS.

DIMENSIONS SHOWN ARE BASED ON THE ORIGINAL STRUCTURE PLANS.

INFORMATION ON THESE DRAWINGS RELATED TO THE EXISTING BRIDGE IS BASED UPON AVAILABLE DRAWINGS FROM THE WISCONSIN DEPARTMENT OF TRANSPORTATION. NO GUARANTY OR WARRANTY IS MADE THAT THE INFORMATION IS ALL INCLUSIVE OR TOTALLY ACCURATE. THEREFORE, THE CONTRACTOR SHALL MAKE HIS OWN DETERMINATION OF THE ACTUAL CONDITIONS TO BE ENCOUNTERED.

CLEAN AND FILL LONGITUDINAL AND TRANSVERSE CRACKS WITH PENETRATING EPOXY AS DIRECTED BY THE FIELD ENGINEER.

AT "CURB REPAIR" EXPOSE EXISTING REINFORCEMENT A MINIMUM OF 1½" CLEAR.

UTILIZE EXISTING BAR STEEL REINF. WHERE APPLICABLE AND EXTEND 24 BAR DIAMETERS INTO NEW WORK.

UTILITIES SHOWN ON THESE PLANS ARE BASED ON EXISTING DRAWINGS. THE CONTRACTOR SHALL MAKE HIS OWN DETERMINATION OF THE TYPE, LOCATION AND ACTUAL CONDITION OF THE HANGING UTILITIES.

Ⓧ WINGWALL NUMBER

WISCONSIN
ANIL KURIAN E-37627 MILWAUKEE, WI
PROFESSIONAL ENGINEER
04/05/07

LIST OF DRAWINGS

1. GENERAL PLAN AND ELEVATION
2. TYPICAL SECTION AND ESTIMATE OF QUANTITIES
3. NORTH ABUTMENT AND WINGWALL REPAIR DETAILS
4. SOUTH ABUTMENT AND WINGWALL REPAIR DETAILS
5. SIDEWALK REPAIR DETAILS
6. PARAPET REPAIR DETAILS

NO.	DATE	REVISION	BY

WISDOT BUREAU OF STRUCTURES — William C Durkee SDR — 10-11-07

APPROVED William C Durkee SDR — 10-11-07
CHIEF STRUCTURAL DESIGN ENGINEER — DATE

STRUCTURE B-40-381

STH 181 (NB) OVER U.P. RR

COUNTY MILWAUKEE		CITY MILWAUKEE	
DESIGN SPEC. AASHTO 2002		LOAD HS-20	CONST. SPEC. 2006
DESIGNED BY YB	DESIGN CK'D. RJW	DRAWN BY TAL	PLANS 842 YB

GENERAL PLAN AND ELEVATION

SHEET 1 OF 6

842

DATE APRIL, 2007

CONTACTS

BLOOM CONSULTANTS, LLC
BOB WYSOCKI: (414) 771-3390

BRIDGE OFFICE CONTACT:
BILL DREHER: (608) 261-8205

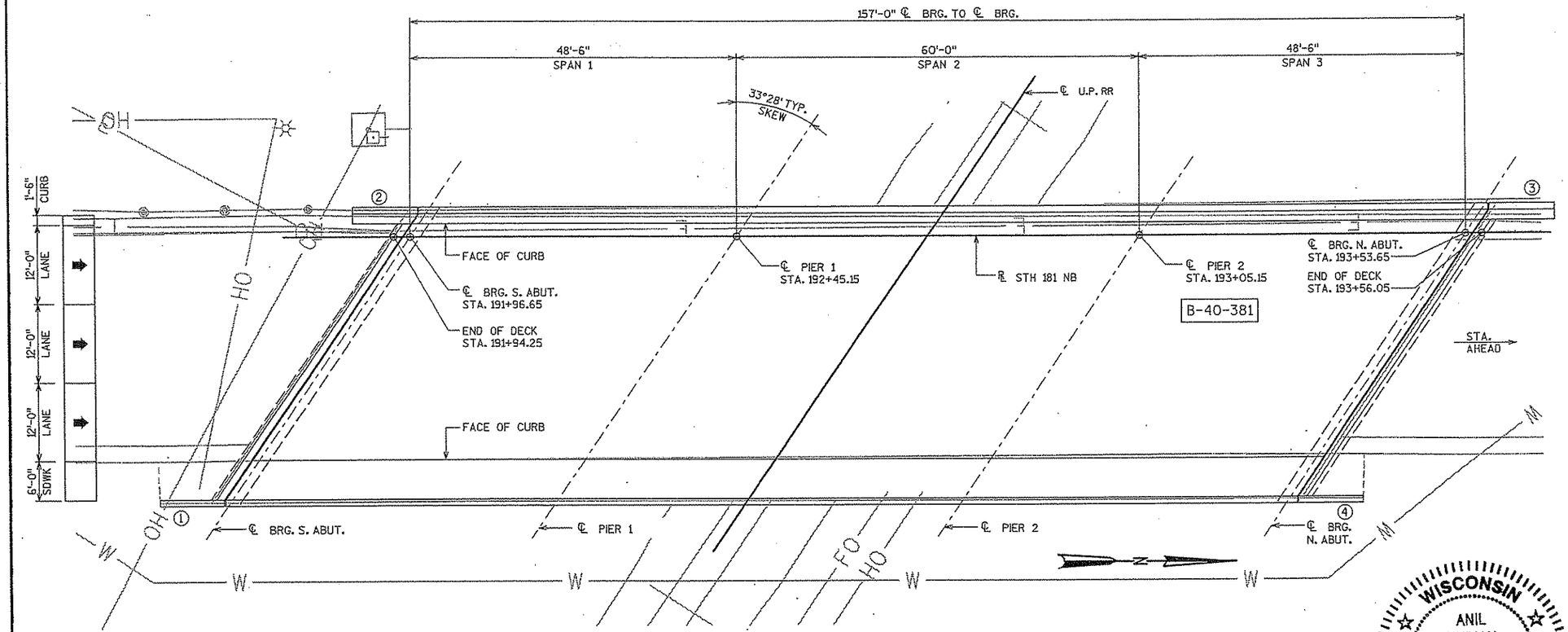
No.	Date	Revisions	By

BLOOM CONSULTANTS, LLC
ENGINEERS PLANNERS SCIENTISTS
5420 S. Westridge Drive • New Berlin, WI 53151
Phone: (414) 771-3390 Fax: (414) 771-4490

8

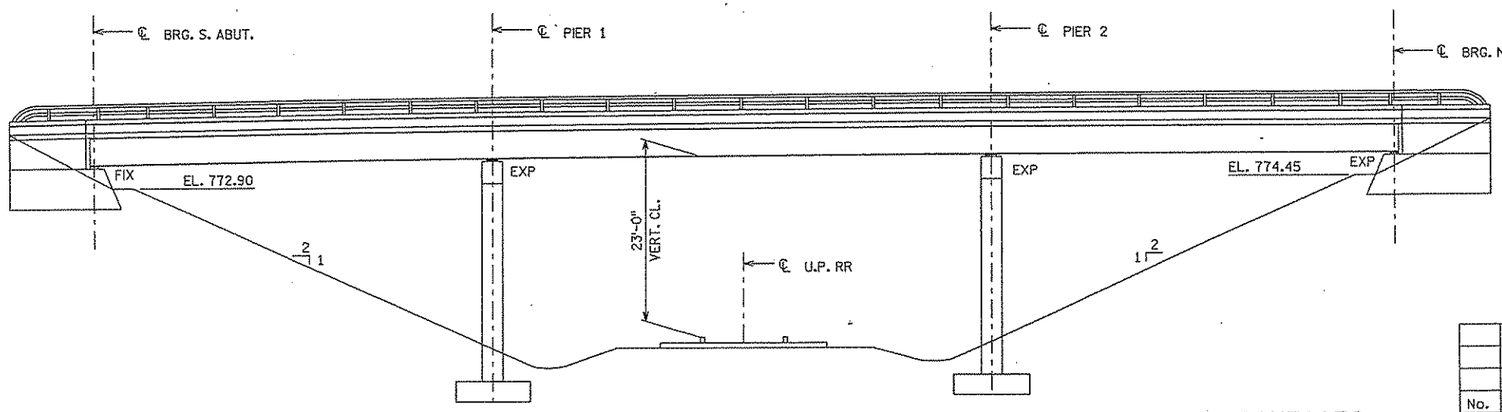
8

STATE PROJECT NUMBER
2140-08-73



PLAN

(THREE SPAN CONTINUOUS STEEL GIRDER BRIDGE)



ELEVATION

(LOOKING WEST)

GENERAL NOTES

DRAWINGS SHALL NOT BE SCALED.

ALL DETAILS, MATERIALS AND FABRICATION SHALL CONFORM TO THE STANDARD SPECIFICATIONS FOR HIGHWAY AND STRUCTURE CONSTRUCTION OF THE STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION, EDITION OF 2006, EXCEPT AS OTHERWISE NOTED.

ALL ELEVATIONS ARE REFERENCED TO THE NATIONAL GEODETIC VERTICAL DATUM (NGVD).

ALL STATIONS AND ELEVATIONS ARE IN FEET.

SUBTRACT 580.6 FT FROM THE ELEVATIONS SHOWN IN THESE PLANS TO CORRELATE WITH ELEVATIONS IN ORIGINAL STRUCTURE PLANS.

DIMENSIONS SHOWN ARE BASED ON THE ORIGINAL STRUCTURE PLANS.

INFORMATION ON THESE DRAWINGS RELATED TO THE EXISTING BRIDGE IS BASED UPON AVAILABLE DRAWINGS FROM THE WISCONSIN DEPARTMENT OF TRANSPORTATION. NO GUARANTY OR WARRANTY IS MADE THAT THE INFORMATION IS ALL INCLUSIVE OR TOTALLY ACCURATE, THEREFORE, THE CONTRACTOR SHALL MAKE HIS OWN DETERMINATION OF THE ACTUAL CONDITIONS TO BE ENCOUNTERED.

CLEAN AND FILL LONGITUDINAL AND TRANSVERSE CRACKS WITH PENETRATING EPOXY AS DIRECTED BY THE FIELD ENGINEER.

AT "CURB REPAIR" EXPOSE EXISTING REINFORCEMENT A MINIMUM OF 1½" CLEAR.

UTILIZE EXISTING BAR STEEL REINF. WHERE APPLICABLE AND EXTEND 24 BAR DIAMETERS INTO NEW WORK.

UTILITIES SHOWN ON THESE PLANS ARE BASED ON EXISTING DRAWINGS. THE CONTRACTOR SHALL MAKE HIS OWN DETERMINATION OF THE TYPE, LOCATION AND ACTUAL CONDITION OF THE HANGING UTILITIES.

(X) WINGWALL NUMBER

WISCONSIN PROFESSIONAL ENGINEER
ANIL KURIAN E-37627 MILWAUKEE, WI
Anil Kurian
04/05/07

LIST OF DRAWINGS

1. GENERAL PLAN AND ELEVATION
2. TYPICAL SECTION AND ESTIMATE OF QUANTITIES
3. NORTH ABUTMENT AND WINGWALL REPAIR DETAILS
4. SOUTH ABUTMENT AND WINGWALL REPAIR DETAILS
5. SIDEWALK REPAIR DETAILS
6. PARAPET REPAIR DETAILS

No.	Date	Revisions	By

BLOOM CONSULTANTS, LLC
ENGINEERS PLANNERS SCIENTISTS
5420 S. Westridge Drive • New Berlin, WI 53151
Phone: (414) 771-3390 Fax: (414) 771-4490

CONTACTS

BLOOM CONSULTANTS, LLC
BOB WYSOCKI: (414) 771-3390

BRIDGE OFFICE CONTACT:
BILL DREHER: (608) 261-8205

NO.	DATE	REVISION	BY

WISDOT
BUREAU OF STRUCTURES

APPROVED _____ DATE _____
CHIEF STRUCTURAL DESIGN ENGINEER

STRUCTURE B-40-381

STH 181 (NB) OVER U.P. RR

COUNTY	MILWAUKEE	CITY	MILWAUKEE		
DESIGN SPEC.	AASHTO 2002	LOAD	HS-20	CONST. SPEC.	2006
DESIGNED BY	YB	DESIGN CK'D.	RJW	DRAWN BY	TAL	PLANS CK'D.	YB

GENERAL PLAN AND ELEVATION

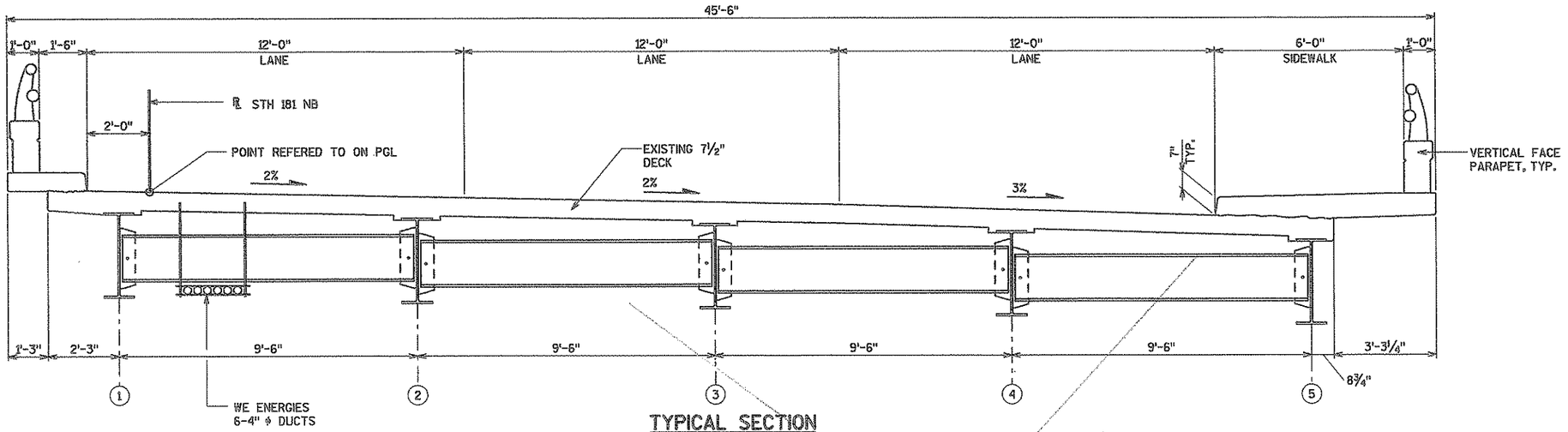
SHEET 1 OF 6

DATE: APRIL, 2007

8

8

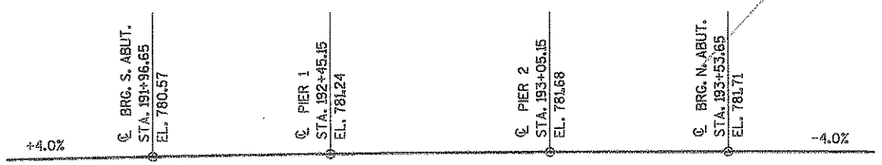
FILE NAME: 01_381-GPE.dgn PEN TABLE: v8_Structural_rev.tbl DATE: 4/5/2007 10:54:24 AM Plotted by: tlagoor



TYPICAL SECTION

(LOOKING NORTH)

NOTE: ALL DIMENSIONS ARE MADE NORMAL TO ℄



EXISTING PROFILE GRADE LINE STH 181 (1995)

VOID

STATE PROJECT NUMBER

2140-08-73

DESIGN DATA

ULTIMATE DESIGN STRESSES

CONCRETE MASONRY:.....f'c = 4,000 PSI
BAR STEEL REINFORCEMENT:.....fy = 60,000 PSI

LIVE LOAD RATING

INVENTORY RATING - HS 21 (1995)
OPERATING RATING - HS 36 (1995)
MAX. STD. PERMIT VEHICLE LOAD 200 kips (1995)

TRAFFIC DATA

N. 76TH ST. NB, SB : ADT (2001) = 21,700
DESIGN SPEED = 40 MPH

BRIDGE WORK NOTES

THE EXISTING STEEL GIRDERS, DIAPHRAGMS AND BEARINGS SHALL BE CLEANED AND REPAINTED, AND THE EXISTING CURBS, SIDEWALK, ABUTMENTS, AND WINGWALLS CONCRETE SURFACE SHALL BE REPAIRED PER CURRENT DETAILS. THE BRIDGE CONTRACTOR SHALL COORDINATE WITH THE CITY OF MILWAUKEE, WIS DOT SE REGION OFFICE, AND UNION PACIFIC RAILROAD TO ESTABLISH CONSTRUCTION SCHEDULES.

THE CONSTRUCTION PROCEDURE SHALL PREVENT DAMAGE TO THE UNDERPASSING RAILROAD. TRAFFIC CONTROL DURING THE SUPERSTRUCTURE REHABILITATION IF REQUIRED SHALL BE APPROVED BY THE ENGINEER.

THE BRIDGE CONTRACTOR SHALL COORDINATE WITH THE ROADWAY CONTRACTOR TO ESTABLISH CONSTRUCTION SCHEDULES.

THE EXISTING BRIDGE PLANS ARE ON FILE AND ARE AVAILABLE FOR INSPECTION AT THE WISCONSIN DEPARTMENT OF TRANSPORTATION, SOUTHEAST REGION, 141 NW BARSTOW ST WAUKESHA, WI. 53187-0789.

THE CONTRACTOR IS RESPONSIBLE FOR THE FIELD INVESTIGATION AND TEMPORARY RELOCATION OF ALL THE UTILITIES LOCATED IN CONSTRUCTION AREA.

TOTAL ESTIMATE OF QUANTITIES

BID ITEMS	UNIT	NORTH ABUTMENT	SOUTH ABUTMENT	SUPER-STRUCTURE	TOTAL
CONCRETE SURFACE REPAIR *	SF	6	28	360	394
STRUCTURE REPAINTING RECYCLED ABRASIVE STRUCTURE B-40-381	LS	-	-	-	1
NEGATIVE PRESSURE CONTAINMENT AND COLLECTION OF WASTE MATERIALS STRUCTURE B-40-381	LS	-	-	-	1
UTILITY PROTECTION STRUCTURE B-40-381 WE ENERGIES ELECTRIC	LS	-	-	-	1
DEBRIS CONTAINMENT STRUCTURE B-40-381	LS	-	-	-	1
STRUCTURE OVERCOATING CLEANING AND PRIMING STRUCTURE B-40-381	LS	-	-	-	1

* EXACT QUANTITIES OF ITEMS AND "CONCRETE SURFACE REPAIR" TO BE MEASURED / VERIFIED IN THE FIELD AND APPROVED BY THE ENGINEER.

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
STRUCTURES DESIGN SECTION

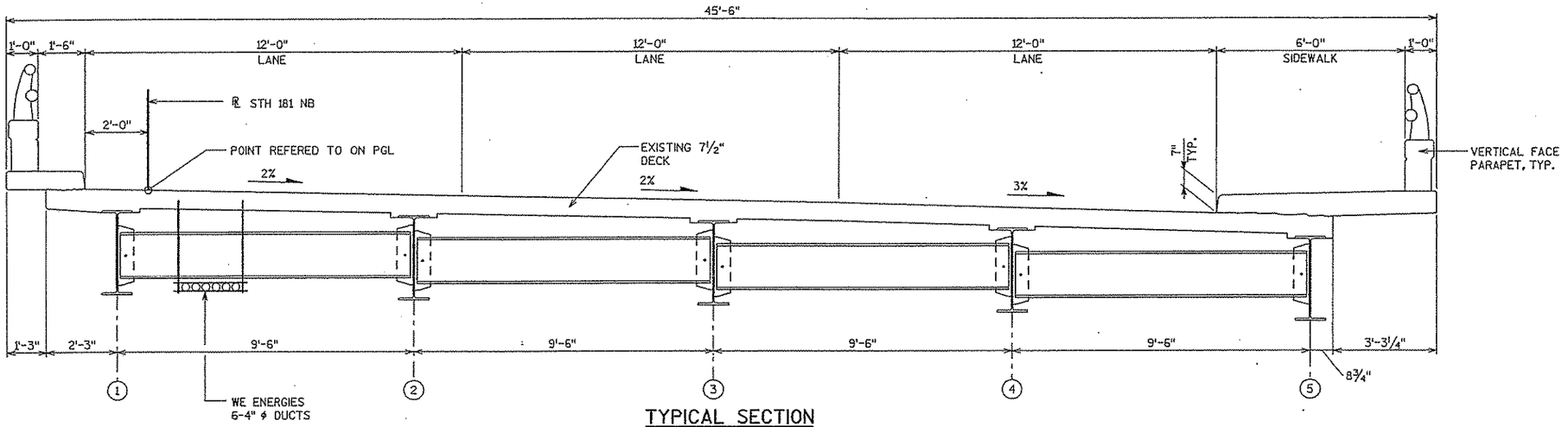
STRUCTURE B-40-381

CONST. SPEC.	2006	DRAWN BY	TAL	PLANS CK'D.	YB

TYPICAL SECTION AND ESTIMATE OF QUANTITIES

SHEET 2 OF 6

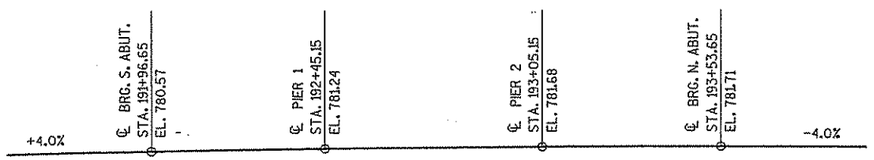
843



TYPICAL SECTION

(LOOKING NORTH)

NOTE: ALL DIMENSIONS ARE MADE NORMAL TO ℄



EXISTING PROFILE GRADE LINE STH 181 (1995)

STATE PROJECT NUMBER

2140-08-73

DESIGN DATA

ULTIMATE DESIGN STRESSES

CONCRETE MASONRY:.....f'c = 4,000 PSI
BAR STEEL REINFORCEMENT:.....fy = 60,000 PSI

LIVE LOAD RATING

INVENTORY RATING - HS 21 (1995)
OPERATING RATING - HS 36 (1995)
MAX. STD. PERMIT VEHICLE LOAD 200 kips (1995)

TRAFFIC DATA

N. 76TH ST. NB, SB : ADT (2001) = 21,700
DESIGN SPEED = 40 MPH

BRIDGE WORK NOTES

THE EXISTING STEEL GIRDERS, DIAPHRAGMS AND BEARINGS SHALL BE CLEANED AND REPAINTED, AND THE EXISTING CURBS, SIDEWALK, ABUTMENTS, AND WINGWALLS CONCRETE SURFACE SHALL BE REPAIRED PER CURRENT DETAILS. THE BRIDGE CONTRACTOR SHALL COORDINATE WITH THE CITY OF MILWAUKEE, WIS DOT SE REGION OFFICE, AND UNION PACIFIC RAILROAD TO ESTABLISH CONSTRUCTION SCHEDULES.

THE CONSTRUCTION PROCEDURE SHALL PREVENT DAMAGE TO THE UNDERPASSING RAILROAD. TRAFFIC CONTROL DURING THE SUPERSTRUCTURE REHABILITATION IF REQUIRED SHALL BE APPROVED BY THE ENGINEER.

THE BRIDGE CONTRACTOR SHALL COORDINATE WITH THE ROADWAY CONTRACTOR TO ESTABLISH CONSTRUCTION SCHEDULES.

THE EXISTING BRIDGE PLANS ARE ON FILE AND ARE AVAILABLE FOR INSPECTION AT THE WISCONSIN DEPARTMENT OF TRANSPORTATION, SOUTHEAST REGION, 141 NW BARSTOW ST WAUKESHA, WI. 53187-0789.

THE CONTRACTOR IS RESPONSIBLE FOR THE FIELD INVESTIGATION AND TEMPORARY RELOCATION OF ALL THE UTILITIES LOCATED IN CONSTRUCTION AREA.

TOTAL ESTIMATE OF QUANTITIES

BID ITEMS	UNIT	NORTH ABUTMENT	SOUTH ABUTMENT	SUPER-STRUCTURE	TOTAL
CONCRETE SURFACE REPAIR *	SF	6	28	360	394
STRUCTURE REPAINTING RECYCLED ABRASIVE STRUCTURE B-40-381	LS	-	-	-	1
NEGATIVE PRESSURE CONTAINMENT AND COLLECTION OF WASTE MATERIALS STRUCTURE B-40-381	LS	-	-	-	1
UTILITY PROTECTION STRUCTURE B-40-381 WE ENERGIES ELECTRIC	LS	-	-	-	1
DEBRIS CONTAINMENT STRUCTURE B-40-381	LS	-	-	-	1
STRUCTURE OVERCOATING CLEANING AND PRIMING STRUCTURE B-40-381	LS	-	-	-	1

* EXACT QUANTITIES OF ITEMS AND "CONCRETE SURFACE REPAIR" TO BE MEASURED / VERIFIED IN THE FIELD AND APPROVED BY THE ENGINEER.

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
STRUCTURES DESIGN SECTION

STRUCTURE B-40-381

CONST. SPEC.	2006	DRAWN BY	TAL	PLANS CK'D.	YB

TYPICAL SECTION AND ESTIMATE OF QUANTITIES

SHEET 2 OF 6

843A

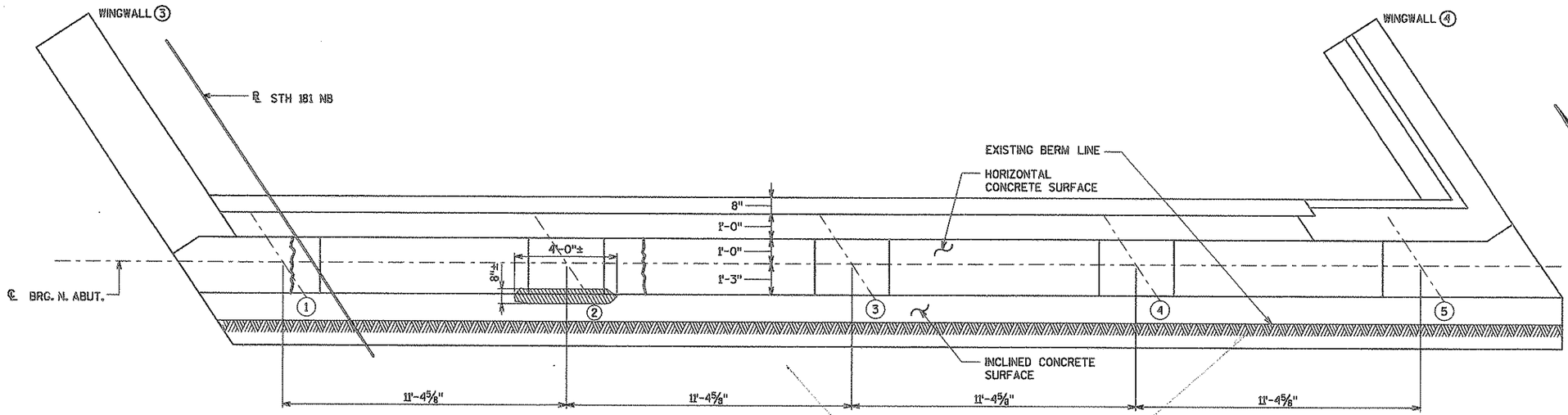
8

8

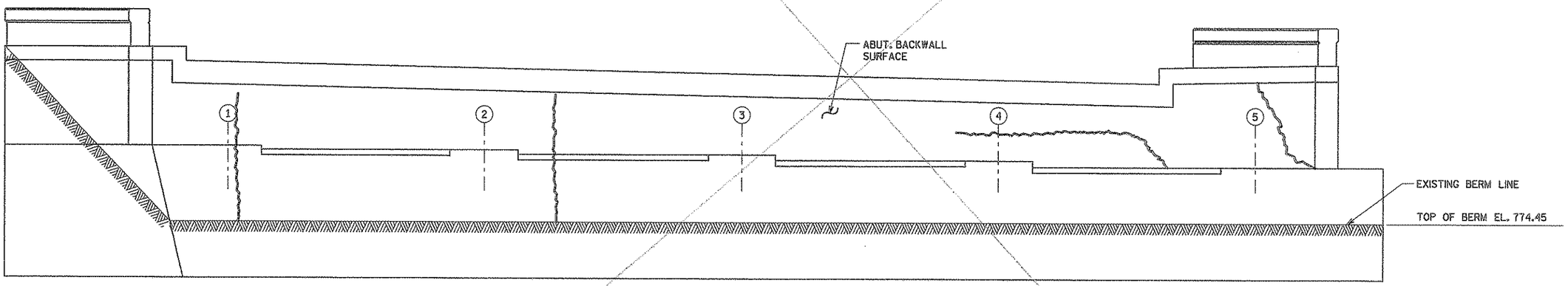
FILE NAME: DGN:$SPEC:$$$

STATE PROJECT NUMBER

2140-08-73

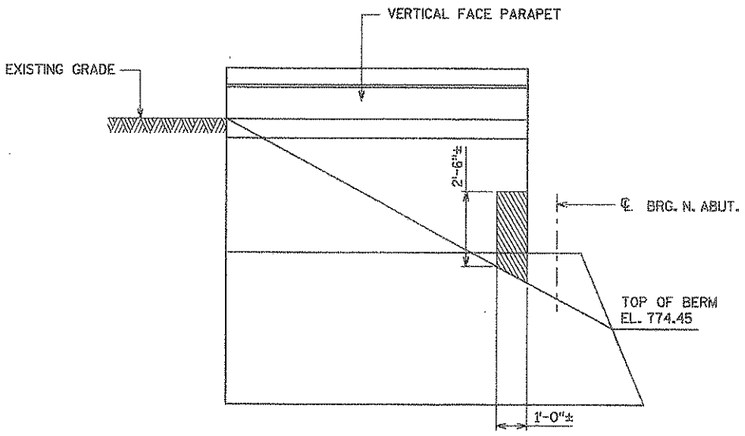


PLAN



ELEVATION
(LOOKING NORTH)

VOID



ELEVATION WING 3
(LOOKING EAST)

LEGEND

- (X) GIRDER NUMBER
- INDICATES CRACKS TO BE SEALED WITH PENETRATING EPOXY
- SPALL - AREA OF CONCRETE SURFACE REPAIR
- SPALL WITH EXPOSED REBAR- AREA OF CONCRETE SURFACE REPAIR

NOTE

THE EXACT AMOUNT AND LOCATIONS OF SURFACE REPAIR SHALL BE VERIFIED BY FIELD ENGINEER.

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
STRUCTURES DESIGN SECTION

STRUCTURE B-40-381

CONST. SPEC.	DRAWN BY	PLANS CK'D.
2006	TAL	YB

NORTH ABUTMENT AND WINGWALL REPAIR DETAILS

SHEET 3 OF 6

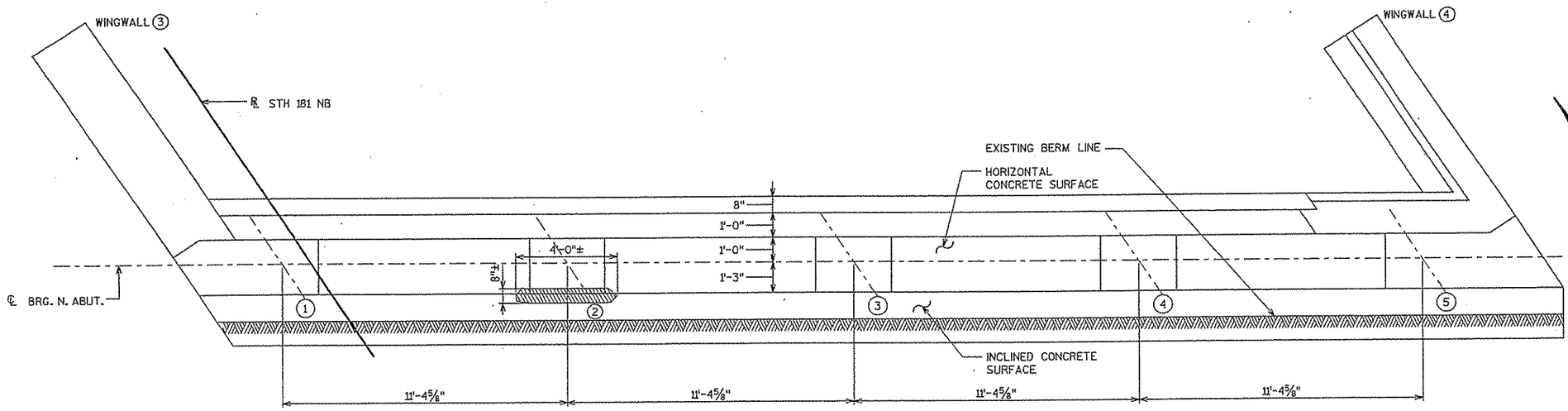
844

8

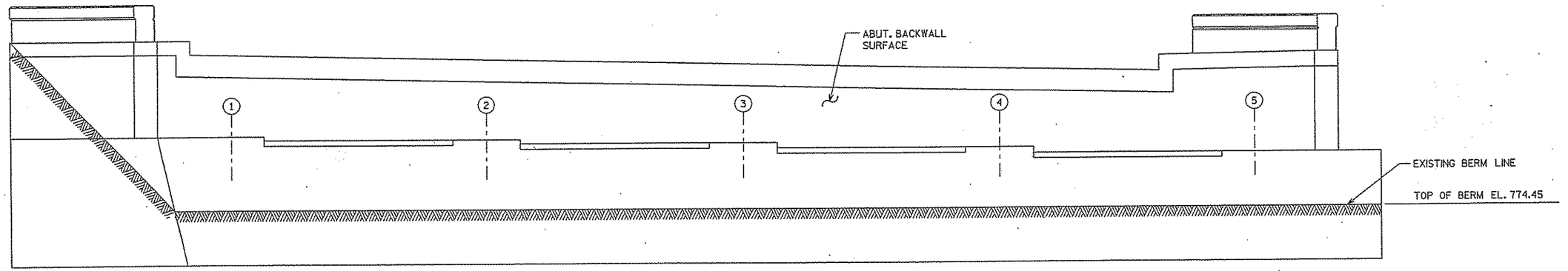
8

STATE PROJECT NUMBER

2140-08-73

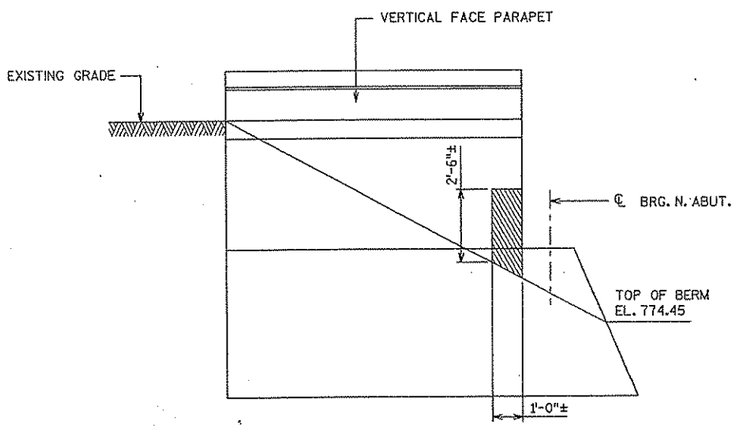


PLAN



ELEVATION

(LOOKING NORTH)



ELEVATION WING 3

(LOOKING EAST)

LEGEND

- (X) GIRDER NUMBER
- SPALL - AREA OF CONCRETE SURFACE REPAIR
- SPALL WITH EXPOSED REBAR- AREA OF CONCRETE SURFACE REPAIR

NOTE

THE EXACT AMOUNT AND LOCATIONS OF SURFACE REPAIR SHALL BE VERIFIED BY FIELD ENGINEER.

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
STRUCTURES DESIGN SECTION

STRUCTURE B-40-381

CONST. SPEC.	2006	DRAWN BY	TAL	PLANS CK'D.	YB

NORTH ABUTMENT AND WINGWALL REPAIR DETAILS

SHEET 3 OF 6

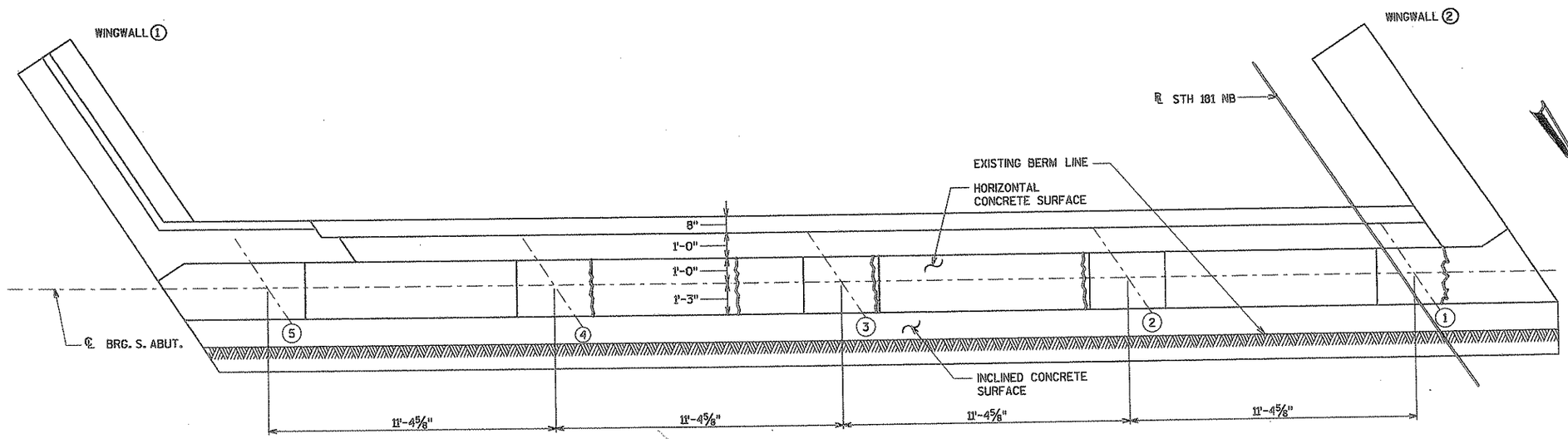
8-44A

8

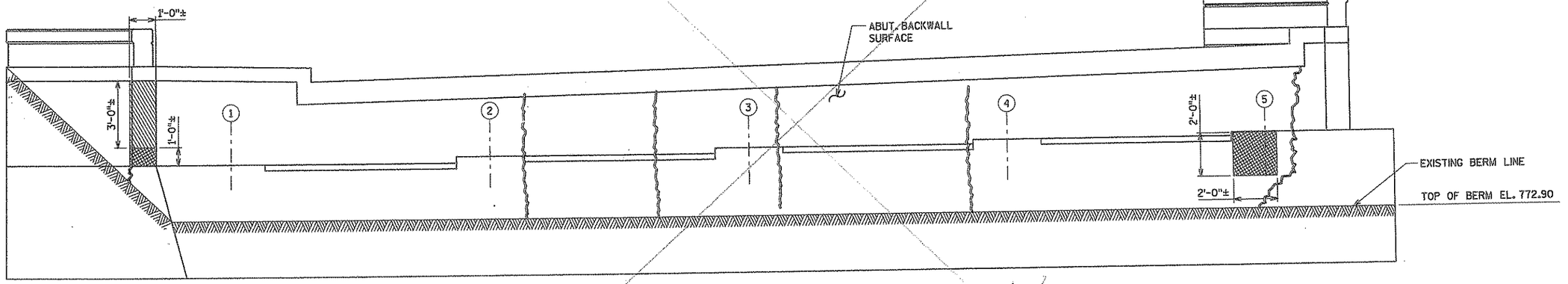
8

STATE PROJECT NUMBER

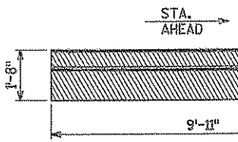
2140-08-73



PLAN

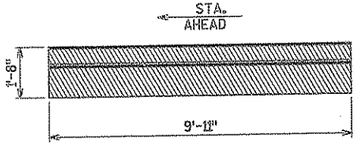


ELEVATION
(LOOKING SOUTH)



INSIDE FACE OF PARAPET

ELEVATION WINGWALL 1
(LOOKING EAST)



INSIDE FACE OF PARAPET

ELEVATION WINGWALL 2
(LOOKING EAST)

LEGEND

- (X) GIRDER NUMBER
- INDICATES CRACKS TO BE SEALED BY PENETRATING EPOXY
- SPALL - AREA OF CONCRETE SURFACE REPAIR
- SPALL WITH EXPOSED REBAR- AREA OF CONCRETE SURFACE REPAIR

NOTE
THE EXACT AMOUNT AND LOCATIONS OF SURFACE REPAIR SHALL BE VERIFIED BY FIELD ENGINEER.

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
STRUCTURES DESIGN SECTION

STRUCTURE B-40-381

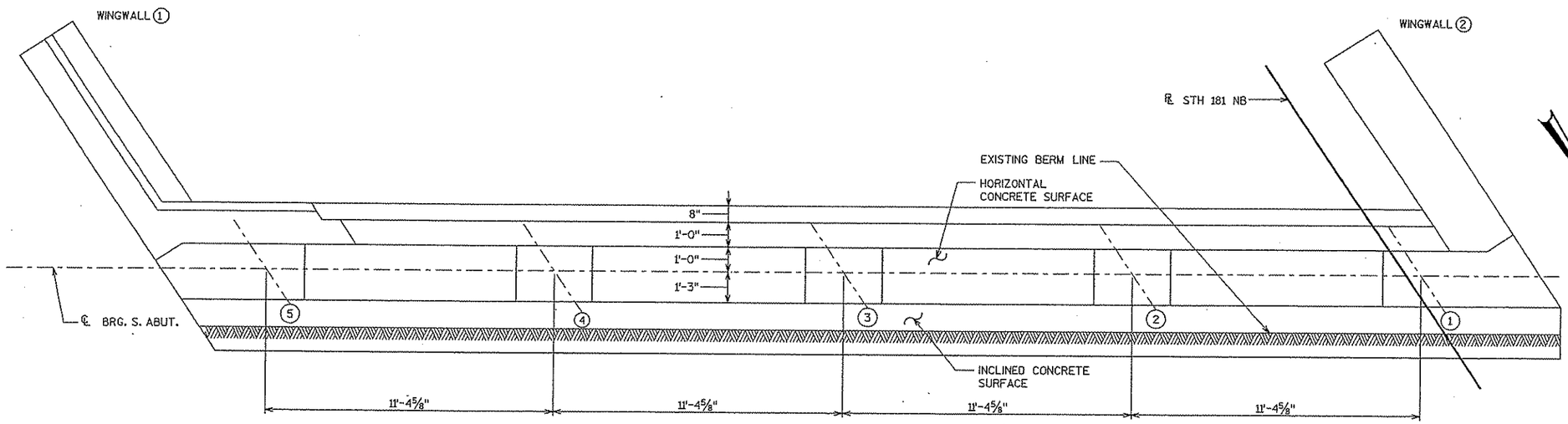
CONST. SPEC.	2006	DRAWN BY	TAL	PLANS CK'D.	YB

SOUTH ABUTMENT AND WINGWALL REPAIR DETAILS

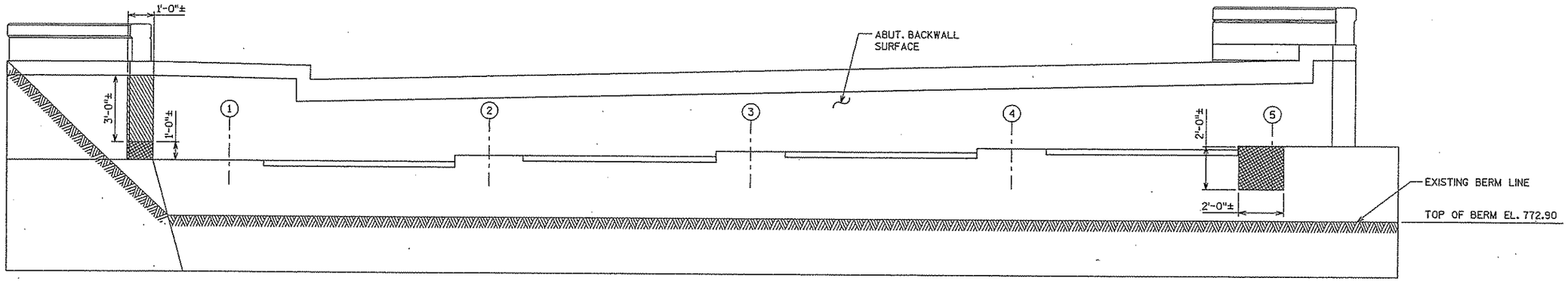
SHEET 4 OF 6

845

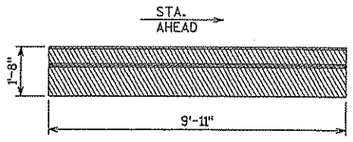
STATE PROJECT NUMBER
2140-08-73



PLAN

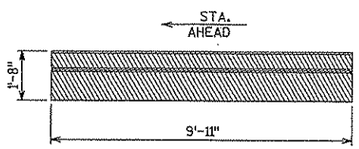


ELEVATION
(LOOKING SOUTH)



INSIDE FACE OF PARAPET

ELEVATION WINGWALL 1
(LOOKING EAST)



INSIDE FACE OF PARAPET

ELEVATION WINGWALL 2
(LOOKING EAST)

LEGEND

- (X) GIRDER NUMBER
- SPALL - AREA OF CONCRETE SURFACE REPAIR
- SPALL WITH EXPOSED REBAR- AREA OF CONCRETE SURFACE REPAIR

NOTE

THE EXACT AMOUNT AND LOCATIONS OF SURFACE REPAIR SHALL BE VERIFIED BY FIELD ENGINEER.

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
STRUCTURES DESIGN SECTION

STRUCTURE B-40-381

CONST. SPEC.	2006	DRAWN BY	TAL	PLANS CK'D.	YB

SOUTH ABUTMENT AND WINGWALL REPAIR DETAILS

SHEET 4 OF 6

845A

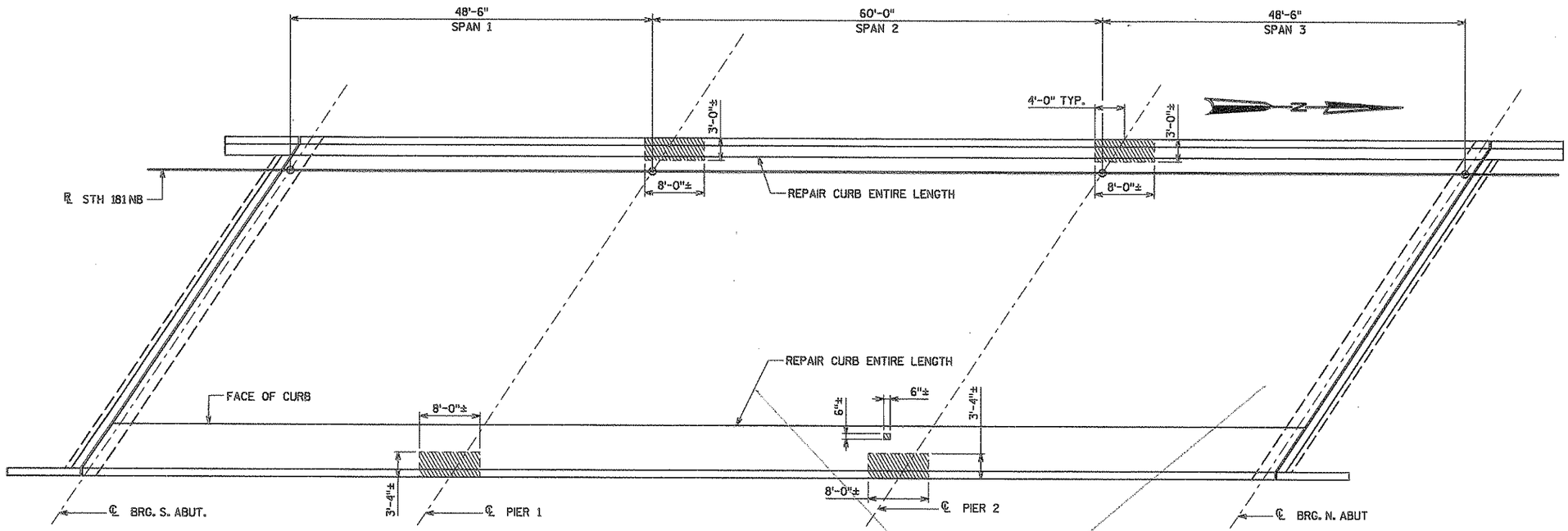
8

8

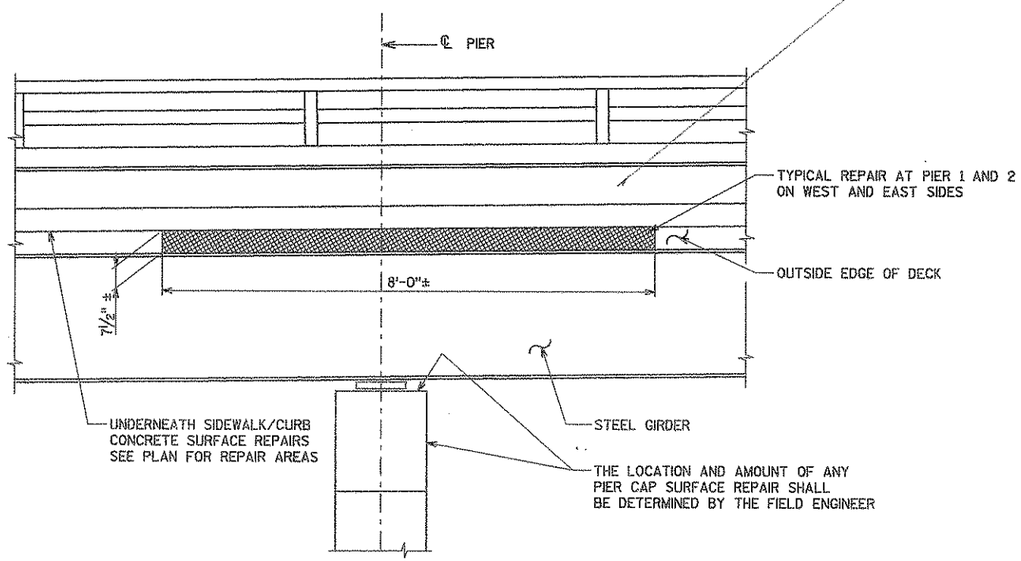
FILE NAME: 03-04_381-ABUTS.dgn PEN TABLE: v8_Structural_rev.tbl DATE: 6/25/2007 11:08:01 AM Plotted by: Hegear

STATE PROJECT NUMBER

2140-08-73



PLAN



ELEVATION
ABOVE PIER 1 AND 2

VOID

LEGEND

- INDICATES CRACKS TO BE SEALED WITH PENETRATING EPOXY
- SPALL - AREA OF CONCRETE SURFACE REPAIR
- SPALL WITH EXPOSED REBAR- AREA OF CONCRETE SURFACE REPAIR

NOTE

THE EXACT AMOUNT AND LOCATIONS OF SURFACE REPAIR SHALL BE VERIFIED BY FIELD ENGINEER.

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
STRUCTURES DESIGN SECTION

STRUCTURE B-40-381

CONST. SPEC.	2006	DRAWN BY	TAL	PLANS CK'D.	YB

SIDEWALK REPAIR DETAILS

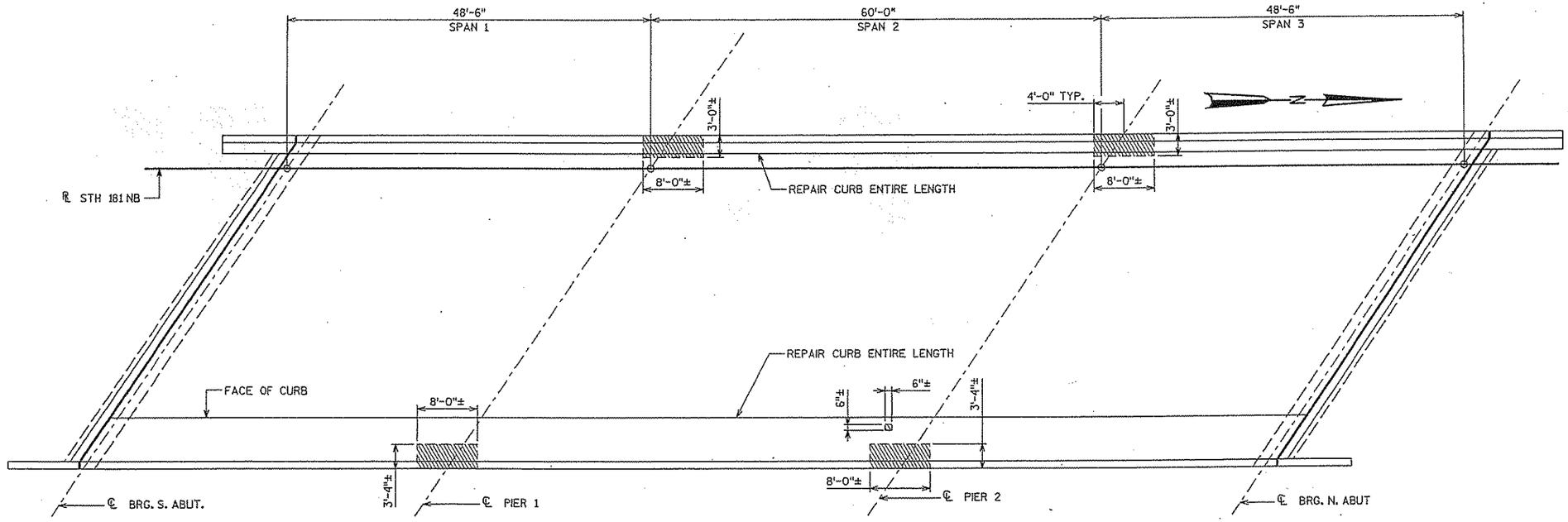
SHEET 5 OF 6

846

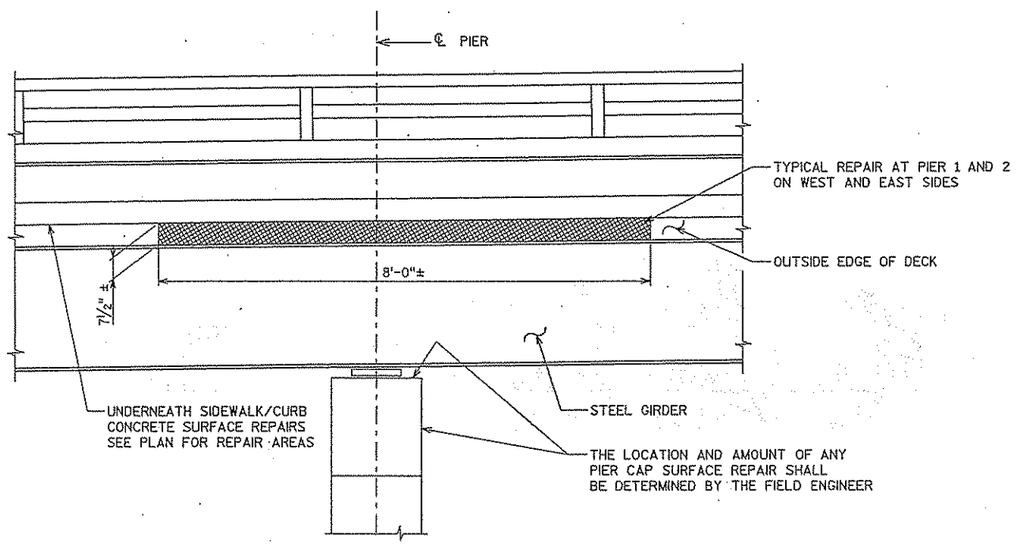
8

8

STATE PROJECT NUMBER
2140-08-73



PLAN



ELEVATION
ABOVE PIER 1 AND 2

NOTE

THE EXACT AMOUNT AND LOCATIONS OF SURFACE REPAIR SHALL BE VERIFIED BY FIELD ENGINEER.

LEGEND

SPALL - AREA OF CONCRETE SURFACE REPAIR

SPALL WITH EXPOSED REBAR-AREA OF CONCRETE SURFACE REPAIR

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
STRUCTURES DESIGN SECTION

STRUCTURE B-40-381

CONST. SPEC.	2006	DRAWN BY	TAL	PLANS CK'D.	YB

SIDEWALK REPAIR DETAILS

SHEET 5 OF 6

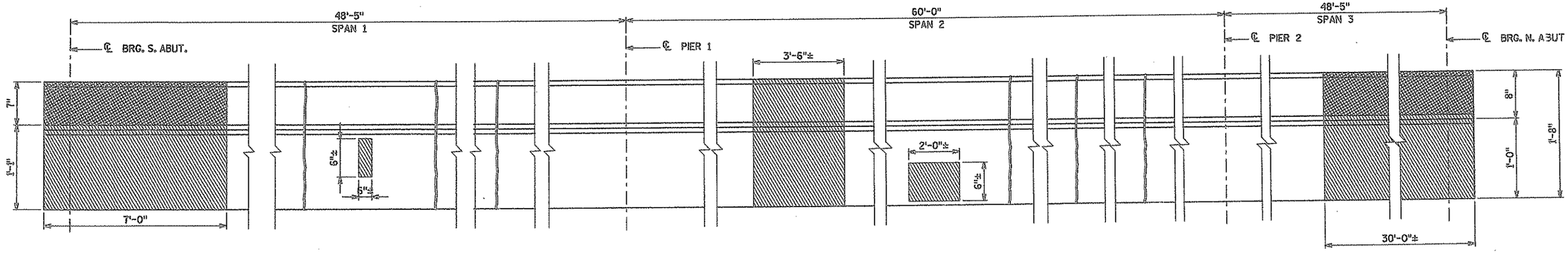
B-46A

8

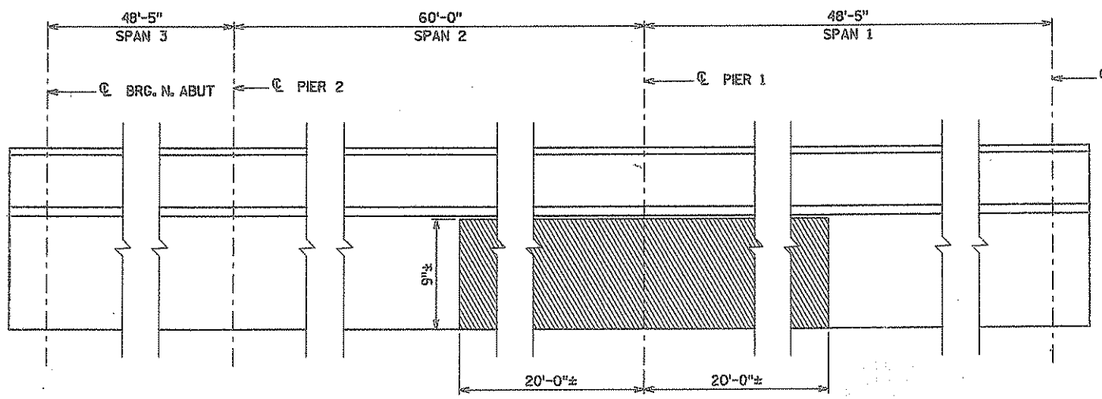
8

STATE PROJECT NUMBER

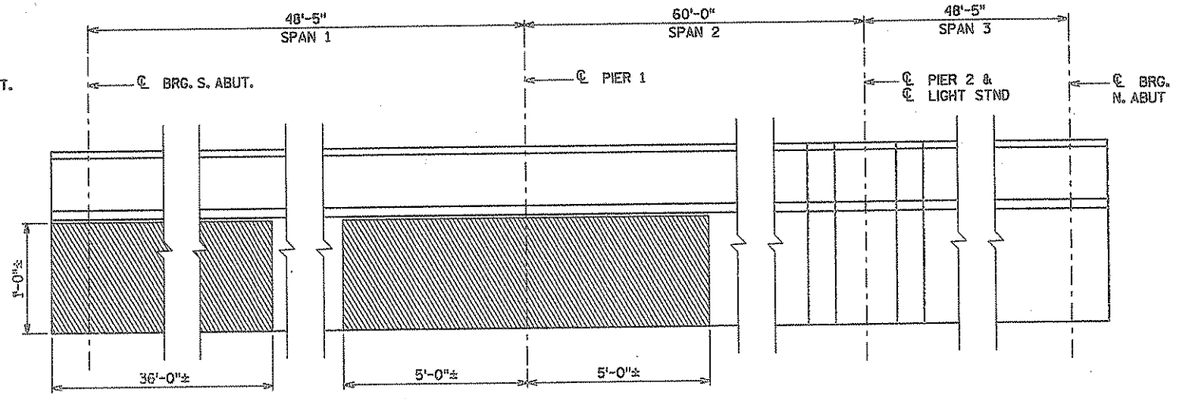
2140-08-73



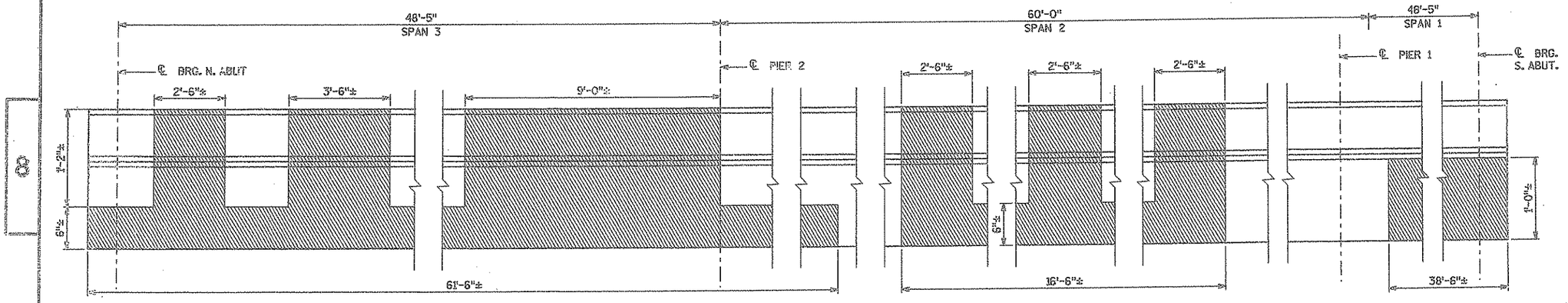
WEST PARAPET INSIDE FACE



WEST PARAPET OUTSIDE FACE



EAST PARAPET OUTSIDE FACE



EAST PARAPET INSIDE FACE

LEGEND

- INDICATES CRACKS TO BE SEALED WITH PENETRATING EPOXY
- SPALL - AREA OF CONCRETE SURFACE REPAIR
- SPALL WITH EXPOSED REBAR- AREA OF CONCRETE SURFACE REPAIR

NOTES

SEE SHEET 4 FOR PARAPET ON WINGWALL REPAIRS.

THE EXACT AMOUNT AND LOCATIONS OF SURFACE REPAIR SHALL BE VERIFIED BY FIELD ENGINEER.

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
STRUCTURES DESIGN SECTION

STRUCTURE B-40-381

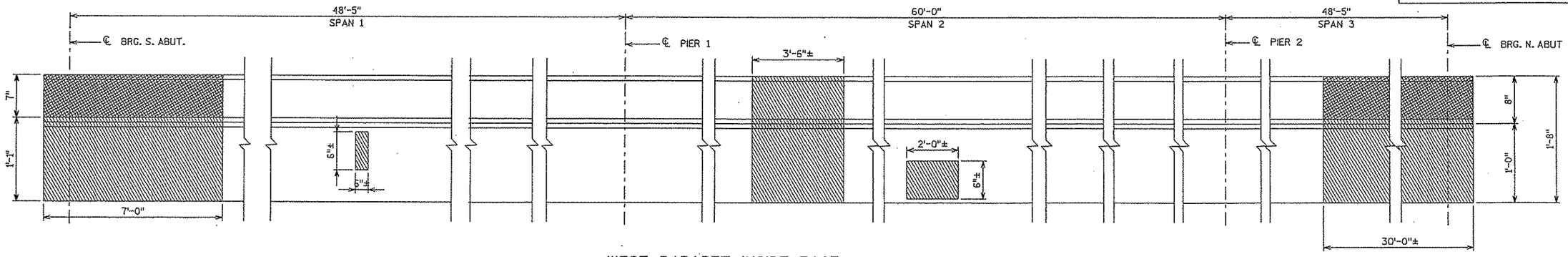
CONST. SPEC.	2006	DRAWN BY	TAL	PLANS CK'D.	YB

PARAPET REPAIR DETAILS

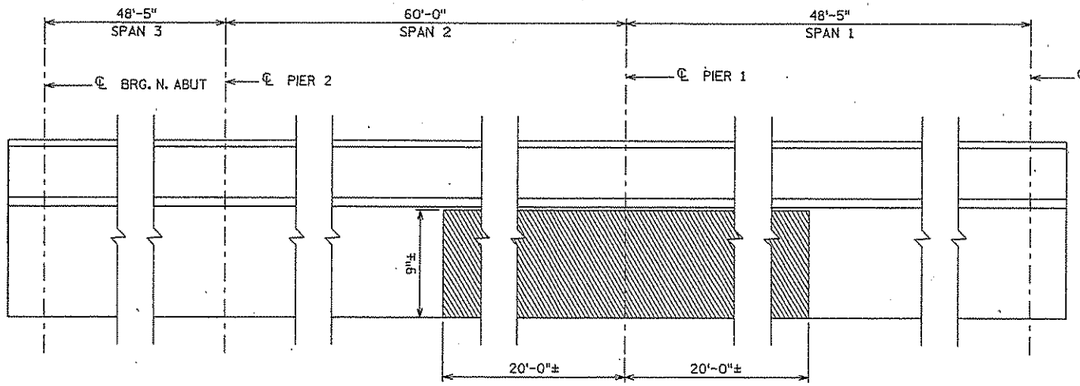
SHEET 6 OF 6

847

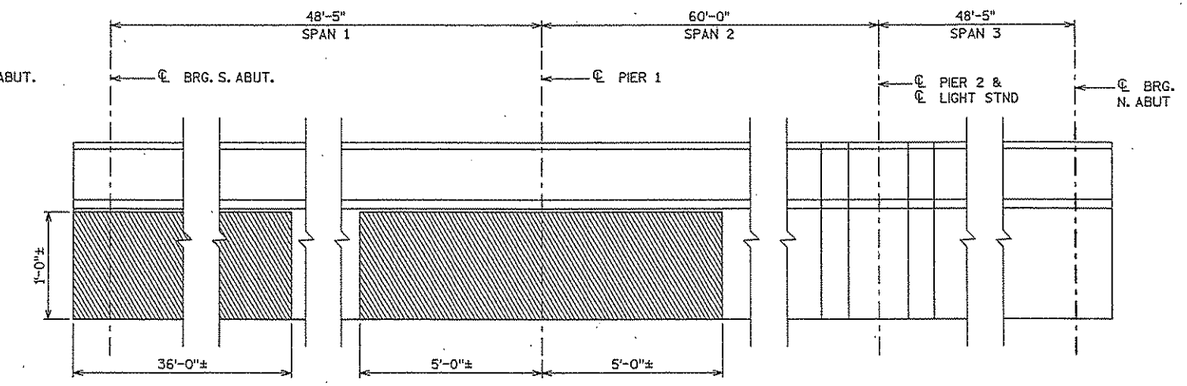
STATE PROJECT NUMBER
2140-08-73



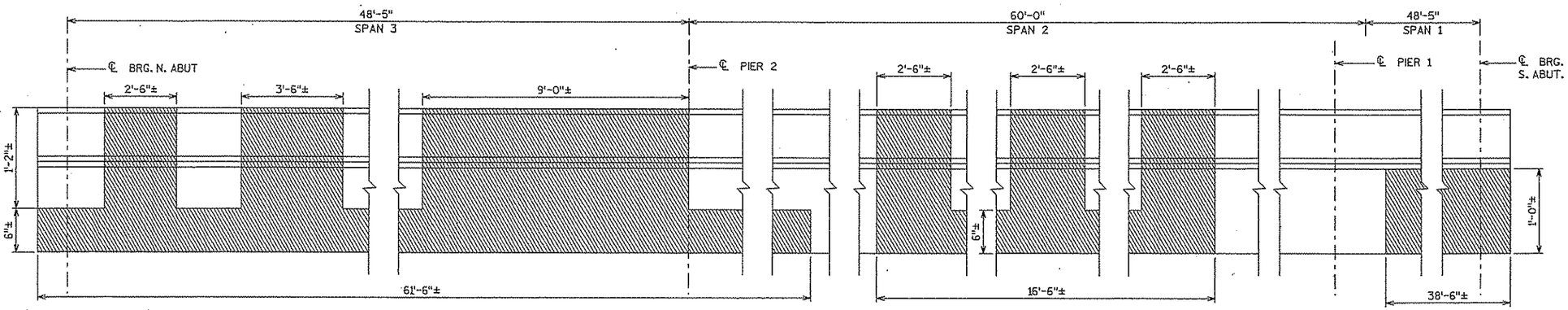
WEST PARAPET INSIDE FACE



WEST PARAPET OUTSIDE FACE



EAST PARAPET OUTSIDE FACE



EAST PARAPET INSIDE FACE

LEGEND

SPALL - AREA OF CONCRETE SURFACE REPAIR

SPALL WITH EXPOSED REBAR- AREA OF CONCRETE SURFACE REPAIR

NOTES

SEE SHEET 4 FOR PARAPET ON WINGWALL REPAIRS.

THE EXACT AMOUNT AND LOCATIONS OF SURFACE REPAIR SHALL BE VERIFIED BY FIELD ENGINEER.

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
STRUCTURES DESIGN SECTION

STRUCTURE B-40-381

CONST. SPEC.	2006	DRAWN BY	TAL	PLANS CK'D.	YB

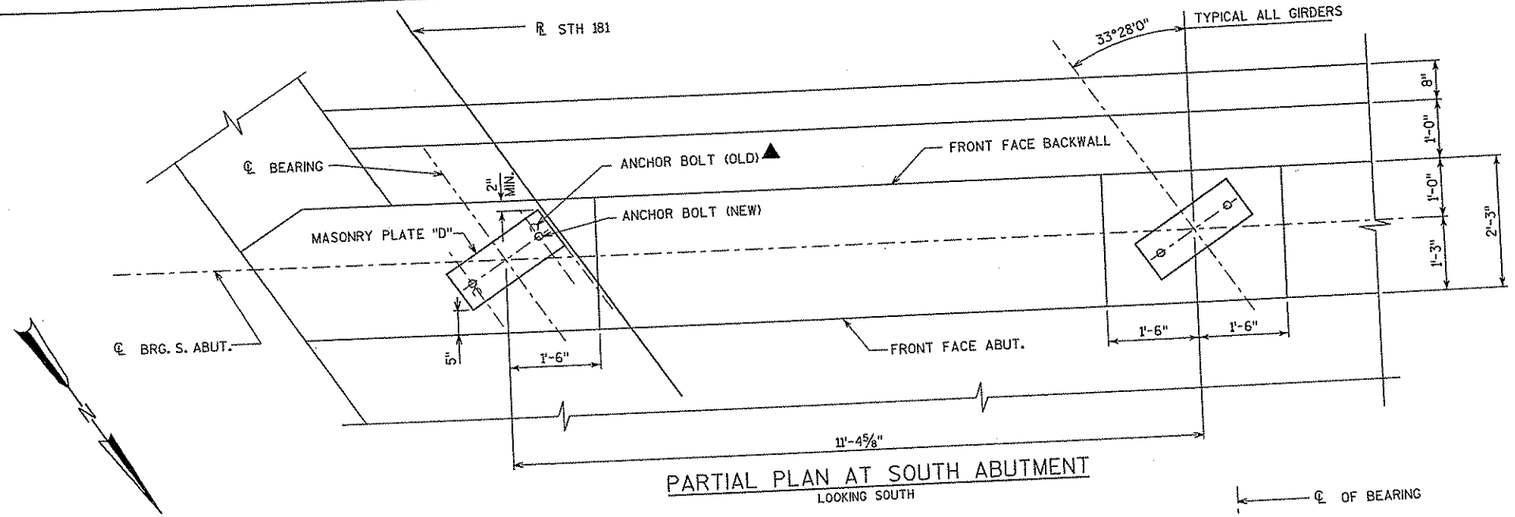
PARAPET REPAIR DETAILS

SHEET 6 OF 6

847A

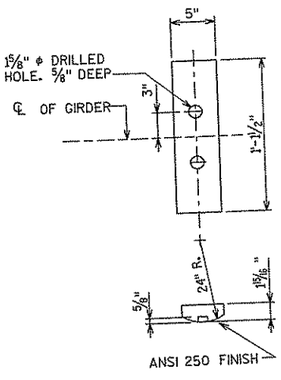
8

8

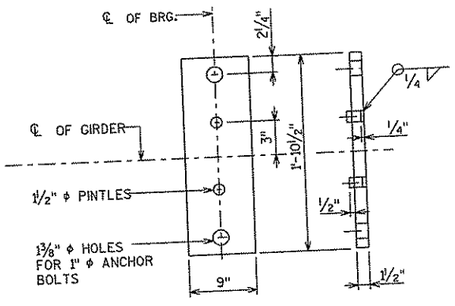


PARTIAL PLAN AT SOUTH ABUTMENT

LOOKING SOUTH



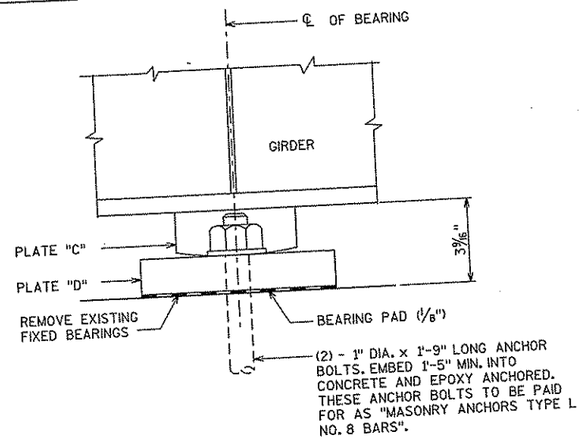
ROCKER PLATE "C" ▼



MASONRY PLATE "D" ♁

FIXED BEARINGS

(5 - REQ'D. AT S. ABUT., B-40-380
5 - REQ'D. AT S. ABUT., B-40-381)



FIXED BEARING ASSEMBLY

NOTES (FIXED BEARINGS)

ANCHOR BOLTS, NUTS AND WASHERS SHALL BE GALVANIZED AS h
A153, CLASS "C".

FABRICATOR MAY INCREASE PLATE "A" OR PLATE "D" THICKNESS AS AN

ALL BEARINGS ARE SYMMETRICAL ABOUT ℄ OF GIRDER AND ℄ OF BEARI

ALL STRUCTURAL STEEL BEARING PLATES SHALL BE FLAT ROLLED STEEL PL. SURFACES SMOOTH AND FREE FROM WARP AND ALL EDGES SMOOTH, STRAIGHT

ALL PLATE CUTS SHALL BE MACHINE OR MACHINE FLAME CUTS.

ALL FINISHED SURFACES SHALL BE MACHINE FINISHED BY AN AUTOMATIC PROCESS.

ANCHOR BOLTS SHALL BE FULLY THREADED. PROVIDE ONE STANDARD WROUGHT WASHER AND ONE HEX NUT PER BOLT. PROJECT ANCHOR BOLTS "D" PLATE THICKNESS + 2¼" ABOVE TOP OF CONCRETE.

STEEL PINTLES SHALL CONFORM TO ASTM A449 OR MATERIAL OF EQUIVALENT YIELD STRENGTH AND ELONGATION.

CHAMFER TOP OF PINTLES ⅛". DRILL HOLES FOR PINTLES IN ALL MASONRY PLATES FOR DRIVING FIT.

PROVIDE ⅛" THICK BEARING PAD SAME SIZE AS MASONRY PLATE "D" FOR EACH BEARING.

HEIGHT OF BEARINGS INCLUDES ⅛" BEARING PADS.

CHAMFER ANCHOR BOLTS PRIOR TO THREADING.

ALL ANCHOR BOLTS, NUTS AND WASHERS SHALL CONFORM TO ASTM A709 GRADE 36, OR MATERIAL OF EQUIVALENT YIELD STRENGTH AND ELONGATION.

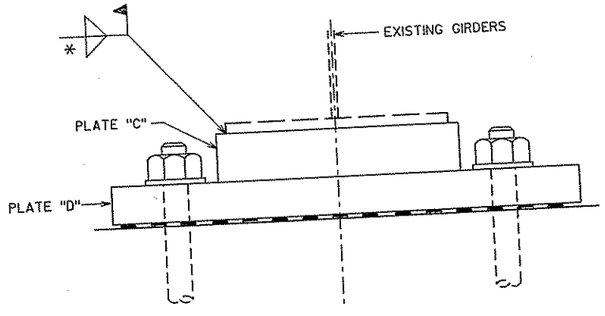
GRIND EXIST. WELD THAT ATTACHED EXIST. PLATE "C" TO BOT. FLANGE. GRIND AFFECTED AREAS SMOOTH.

▼ PLATE "C" SHALL NOT BE GALVANIZED. PLATE "C" SHALL BE SHOP PAINTED. USE WELDABLE PRIMER.

♁ PLATE "D" SHALL BE GALVANIZED.

▲ BURN OFF EXISTING ANCHOR BOLTS FLUSH WITH CONCRETE BEARING SURFACE AND GRIND SMOOTH.

* SEE TABLE OF FILLET WELDS ON SHEET 3.



SECTION THRU FIXED BEARING

ADDENDUM #1
AUG 8, 2008

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
STRUCTURES DESIGN SECTION

STRUCTURES B-40-380/381

CONST. SPEC.	2009	DRAWN BY	WJ	PLANS CK'D.	AVK

BEARING REPLACEMENT SOUTH ABUTMENT

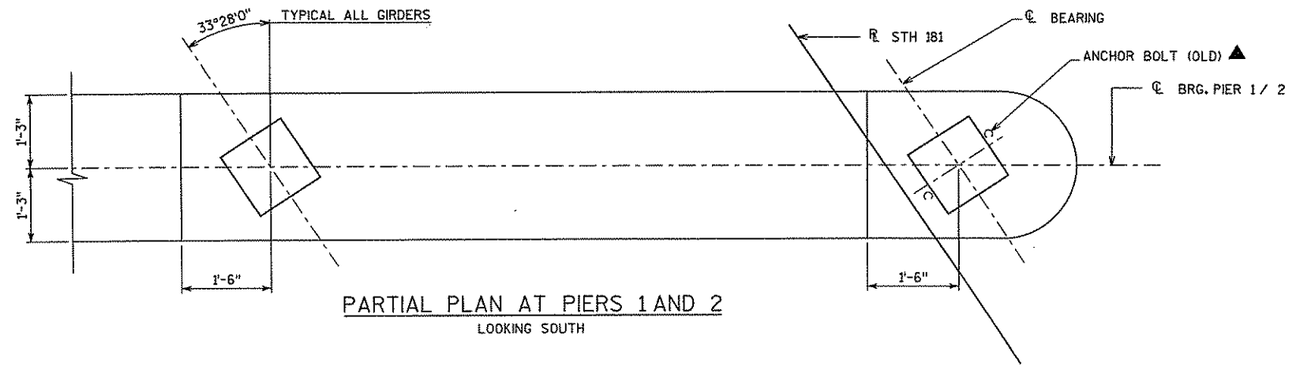
SHEET 1 OF 3

847B

8

8

STATE PROJECT NUMBER
2140-08-73



PARTIAL PLAN AT PIERS 1 AND 2
LOOKING SOUTH

NOTES (ELASTOMERIC BEARINGS)

BEARINGS SHALL NOT BE PLACED AT TEMPERATURE GREATER THAN 85° F.

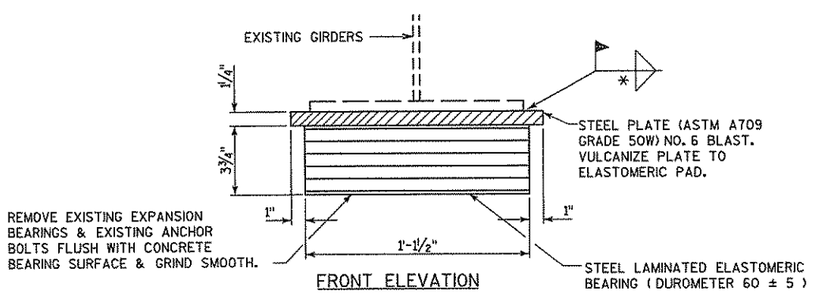
ON BEARING RELACEMENTS, COMPRESSION LOAD AND ADHESION TESTS WILL BE WAIVED WHERE BEARINGS ARE DETAILED TO MEET HEIGHT REQUIREMENTS.

ALL STRUCTURAL STEEL PLATES SHALL BE FLAT ROLLED WITH ALL SURFACES SMOOTH AND FREE FROM WARP AND ALL EDGES SMOOTH, STRAIGHT AND VERTICAL.

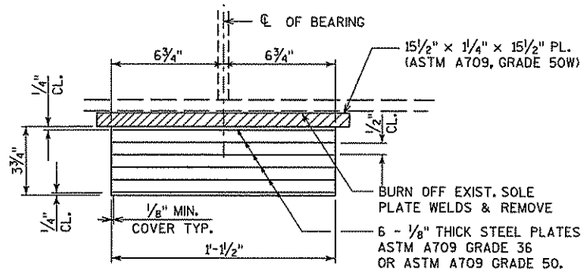
ALL PLATE CUTS SHALL BE MACHINE OR MACHINE FLAME CUTS.

▲ BURN OFF EXISTING ANCHOR BOLTS FLUSH WITH CONCRETE BEARING SURFACE AND GRIND SMOOTH.

* SEE TABLE OF FILLET WELDS ON SHEET 3.



FRONT ELEVATION



SECTION THRU ELASTOMERIC BEARING

EXPANSION BEARING REPLACEMENT - STEEL GIRDERS

ELASTOMERIC BEARINGS

5 - REQUIRED AT PIER 1, B-40-380
5 - REQUIRED AT PIER 2, B-40-380

5 - REQUIRED AT PIER 1, B-40-381
5 - REQUIRED AT PIER 2, B-40-381

ADDENDUM #1
AUG 8, 2008

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
STRUCTURES DESIGN SECTION

STRUCTURES B-40-380/381

CONST. SPEC.	DRAWN BY	PLANS CK'D.
2009	TAL	YB

BEARING REPLACEMENT-PIERS

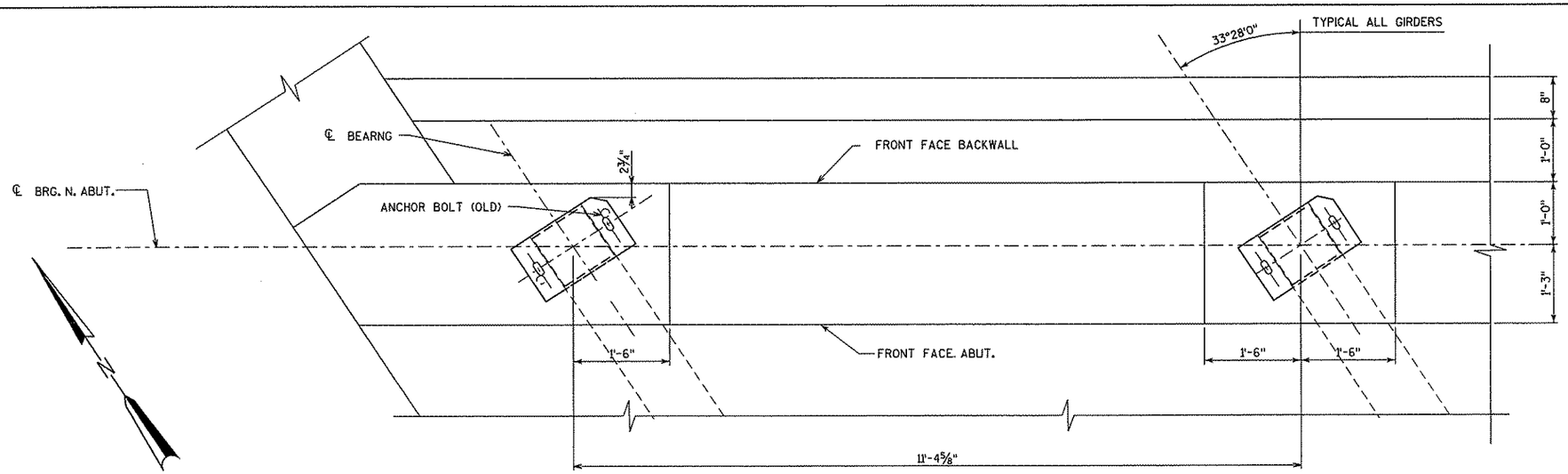
SHEET 2 OF 3

347C

8

8

STATE PROJECT NUMBER
2140-08-73

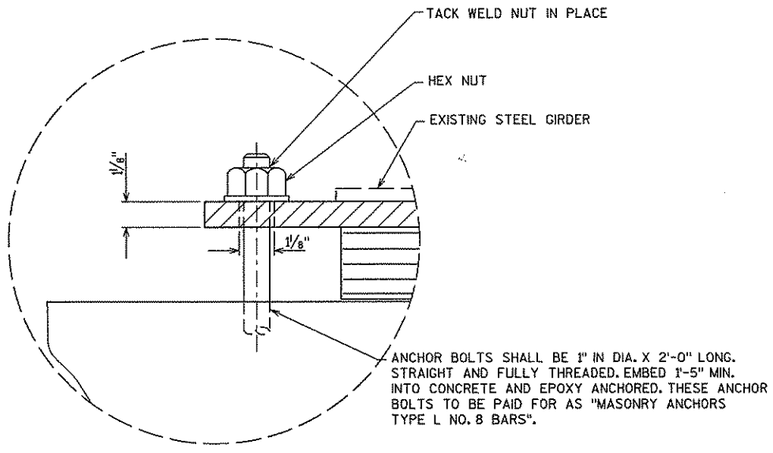


PARTIAL PLAN AT NORTH ABUTMENT

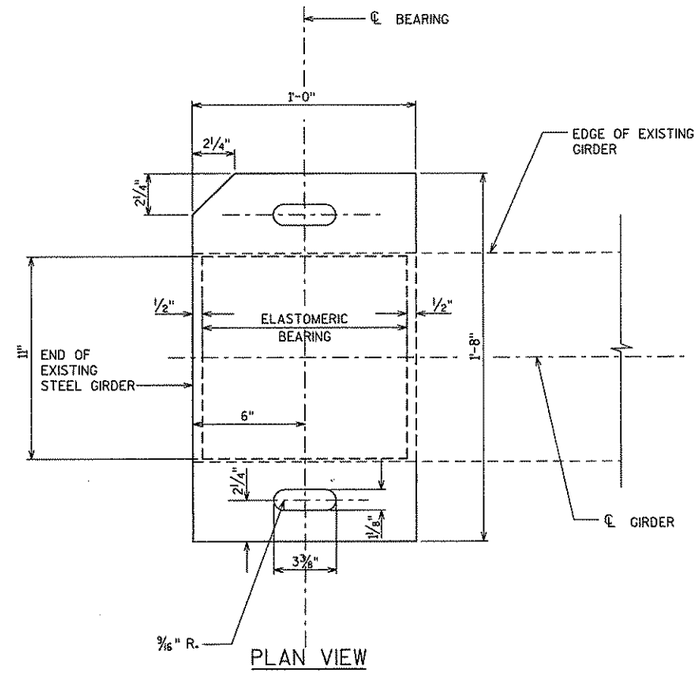
LOOKING NORTH

NOTE

SEE NOTES ON SHEET 2.



DETAIL A



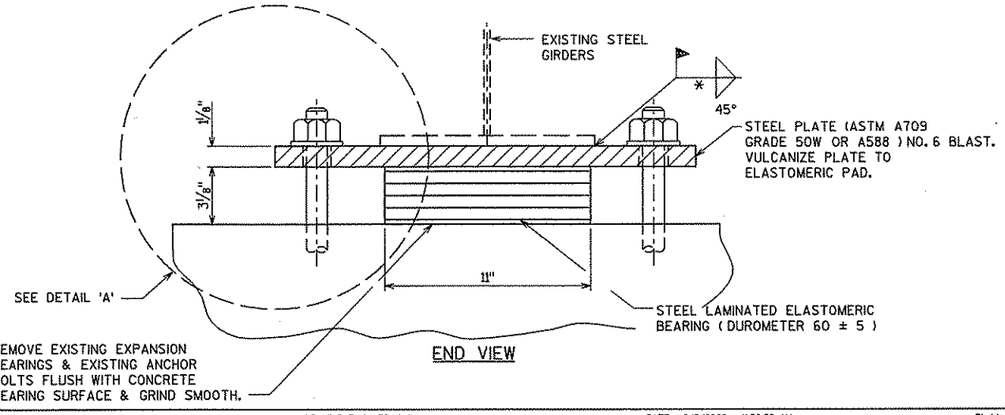
PLAN VIEW

* TABLE OF FILLET WELD SIZES

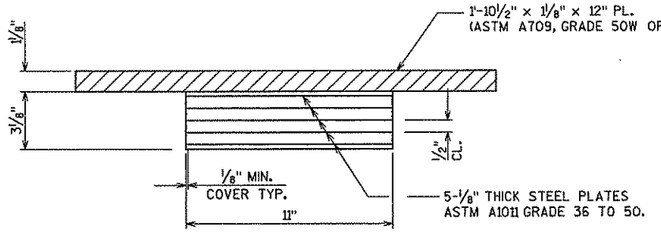
MATERIAL THICKNESS OF THICKER PART JOINED.	‡ MIN. SIZE OF FILLET WELD
TO ½" INCLUSIVE	3/16"
OVER ½" TO ¾"	¼"
OVER ¾" TO 1½"	△ 5/16"
OVER 1½" TO 2¼"	△ ⅜"
OVER 2¼" TO 6"	△ ½"

‡ EXCEPT THAT THE WELD SIZE SHALL NOT EXCEED THE THICKNESS OF THE THINNER PART JOINED.

△ MIN. PASS SIZE IS 5/16"



END VIEW



SECTION THRU ELASTOMERIC BEARING

5-REQUIRED AT N. ABUT., B-40-380

5-REQUIRED AT N. ABUT., B-40-381

ADDENDUM #1

AUG 8, 2008

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
STRUCTURES DESIGN SECTION

STRUCTURES B-40-380/381

CONST. SPEC. 2009	DRAWN BY WJ	PLANS CK'D. AVK

BEARING REPLACEMENT - NORTH ABUTMENT

SHEET 3 OF 3

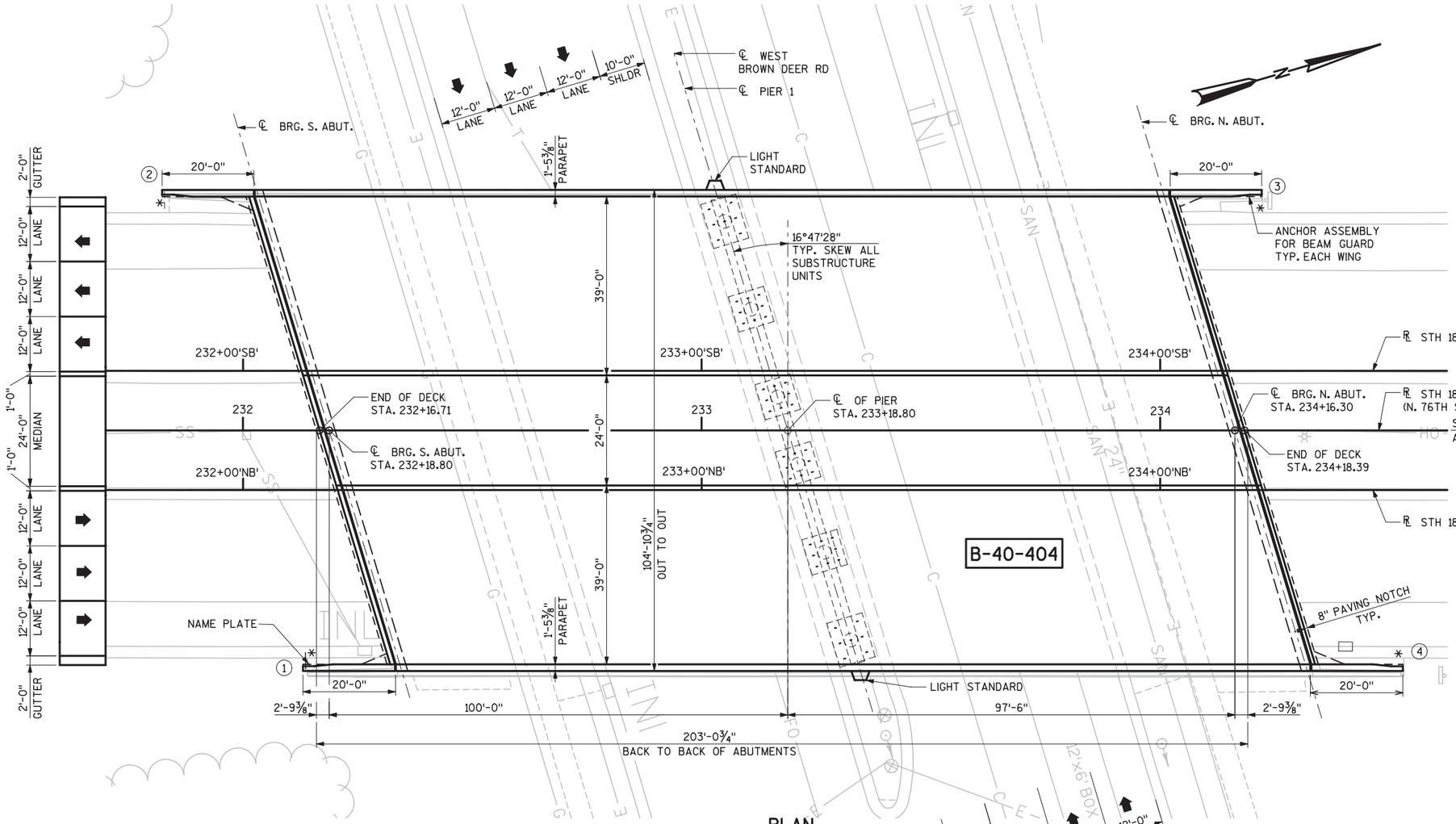
847D

8

8

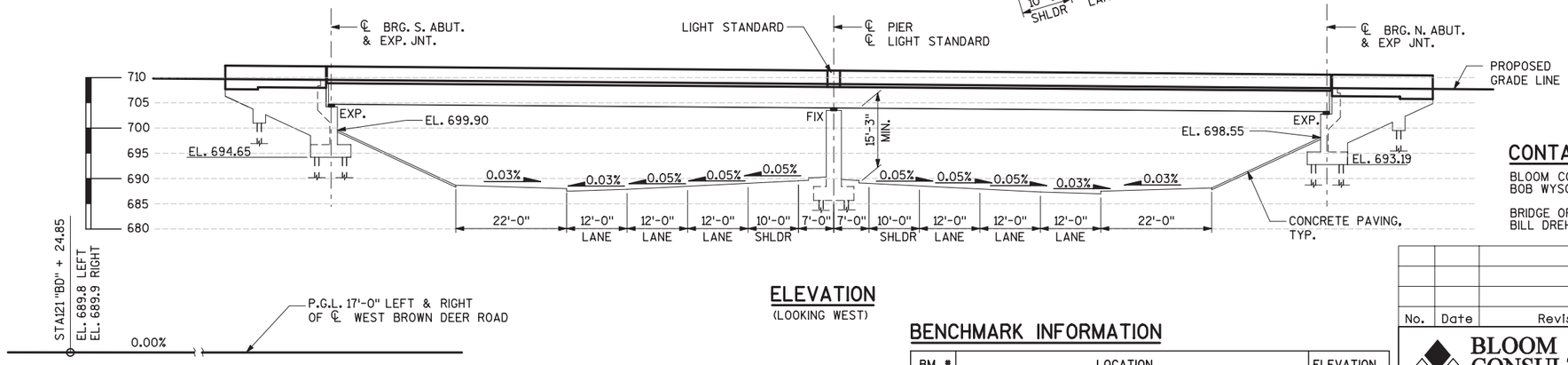
FILE NAME: XX_380-Brgdtnabut.dgn PEN TABLE: KIL_TBL.tbl DATE: 8/8/2008 11:36:52 AM Plotted by: akurian

STATE PROJECT NUMBER
2140-08-73



PLAN

(TWO SPAN CONTINUOUS STEEL GIRDER STRUCTURE)



ELEVATION

(LOOKING WEST)

EXISTING PROFILE GRADE LINE WEST BROWN DEER ROAD

BENCHMARK INFORMATION

BM #	LOCATION	ELEVATION
BM1	SE BOLT OF TRAFFIC SIGNAL ON SOUTH SIDE OF BROWN DEER ROAD, WEST OF 76TH STREET BRIDGE. STA. 232+26; 105.5 FT LEFT.	691.58

GENERAL NOTES

DRAWINGS SHALL NOT BE SCALED.

ALL DETAILS, MATERIALS AND FABRICATION SHALL CONFORM TO THE STANDARD SPECIFICATIONS FOR HIGHWAY AND STRUCTURE CONSTRUCTION OF THE STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION, EDITION OF 2006, EXCEPT AS OTHERWISE NOTED.

ALL ELEVATIONS ARE REFERENCED TO THE NATIONAL GEODETIC VERTICAL DATUM (NGVD).

ALL STATIONS AND ELEVATIONS ARE IN FEET.

SUBTRACT 580.6 FT FROM THE ELEVATIONS SHOWN IN THESE PLANS TO CORRELATE WITH ELEVATIONS IN ORIGINAL STRUCTURE PLANS.

DIMENSIONS SHOWN ARE BASED ON THE ORIGINAL STRUCTURE PLANS.

VARIATIONS TO THE NEW GRADE LINE OVER ¼" MUST BE SUBMITTED BY FIELD ENGINEER TO THE STRUCTURES DESIGN FOR REVIEW.

CLEAN AND FILL LONGITUDINAL AND TRANSVERSE CRACKS WITH PENETRATING EPOXY AS DIRECTED BY THE FIELD ENGINEER.

UTILIZE EXISTING BAR STEEL REINFORCEMENT WHERE APPLICABLE AND EXTEND 24 BAR DIAMETERS INTO NEW WORK.

INFORMATION ON THESE DRAWINGS RELATED TO THE EXISTING BRIDGE IS BASED UPON AVAILABLE DRAWINGS FROM THE WISCONSIN DEPARTMENT OF TRANSPORTATION, NO GUARANTY OR WARRANTY IS MADE THAT THE INFORMATION IS ALL INCLUSIVE OR TOTALLY ACCURATE, THEREFORE, THE CONTRACTOR SHALL MAKE HIS OWN DETERMINATION OF THE ACTUAL CONDITIONS TO BE ENCOUNTERED.

SEE SHEET 2 FOR LIST OF DRAWINGS.

FOR NEW NAME PLATE, ORIGINAL CONSTRUCTION YEAR IS 1969.

(X) WINGWALL NUMBER

* LOCATION OF ROADWAY BEAM GUARD ATTACHMENTS

WISCONSIN
ANIL KURIAN E-37627 MILWAUKEE, WI
PROFESSIONAL ENGINEER
04/05/07

CONTACTS

BLOOM CONSULTANTS, LLC
BOB WYSOCKI: (414) 771-3390

BRIDGE OFFICE CONTACT:
BILL DREHER: (608) 261-8205

No.	Date	Revisions	By

BLOOM CONSULTANTS, LLC
ENGINEERS PLANNERS SCIENTISTS
5420 S. Westridge Drive ♦ New Berlin, WI 53151
Phone: (414) 771-3390 Fax: (414) 771-4490

NO.	DATE	REVISION	BY

WISDOT
BUREAU OF STRUCTURES
APPROVED William C. Dreher SDR 10-11-07
CHIEF STRUCTURAL DESIGN ENGINEER DATE

STRUCTURE B-40-404

STH 181 OVER W. BROWN DEER RD.

COUNTY MILWAUKEE		CITY MILWAUKEE	
DESIGN SPEC. AASHTO 2002		LOAD HS-20	CONST. SPEC. 2006
DESIGNED BY YB	DESIGN CK'D. RJW	DRAWN BY TAL	PLANS CK'D. YB

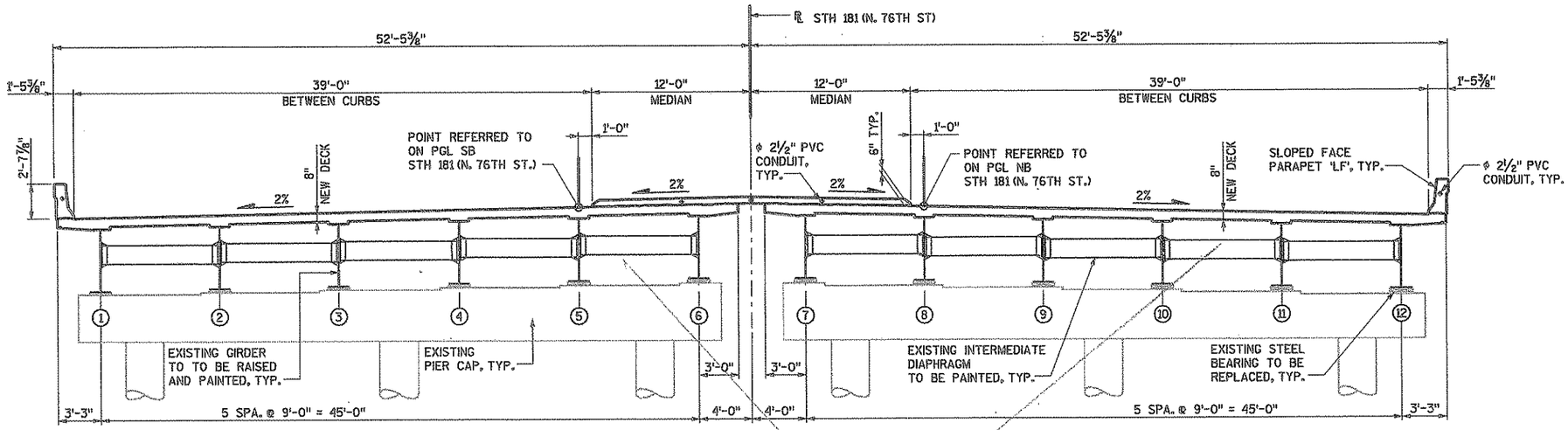
GENERAL PLAN AND ELEVATION

SHEET 1 OF 21
DATE APRIL, 2007

8

STATE PROJECT NUMBER

2140-08-73



SOUTH BOUND

TYPICAL SECTION

(LOOKING NORTH)

NOTE: ALL HORIZONTAL DIMENSIONS SHOWN ARE TAKEN NORMAL TO ℄ N. 76TH. ST.

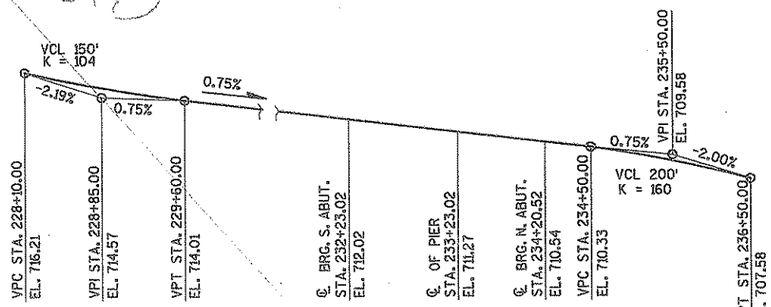
NORTH BOUND

TOTAL ESTIMATE OF QUANTITIES

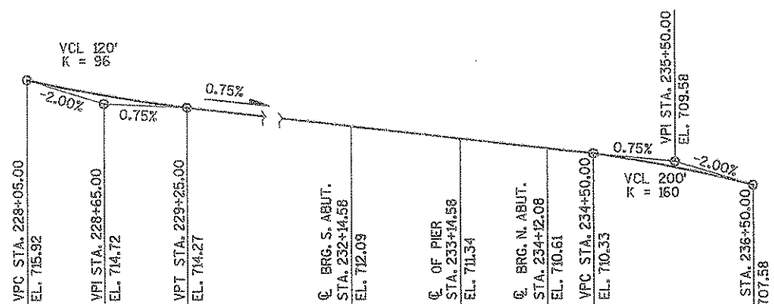
BID ITEMS	UNIT	SOUTH ABUT.	NORTH ABUT.	PIER	SUPER.	TOTAL
REMOVING OLD STRUCTURE B-40-404 STA. 233+18.80	LS	-	-	-	-	1
REMOVING CONCRETE SLOPE PAVING *	SY	12	72	-	-	84
BACKFILL STRUCTURE	CY	19	19	-	-	38
CONCRETE MASONRY BRIDGES	CY	17	17	-	413	447
COMPRESSION JOINT SEALER PREFORMED ELASTOMERIC (3-INCH)	LF	-	-	-	199	199
EXPANSION DEVICE STRUCTURE B-40-404	LS	-	-	-	-	1
PROTECTIVE SURFACE TREATMENT	SY	16	16	-	2,415	2,447
MASONRY ANCHORS TYPE L NO.5 BARS	EACH	394	394	-	-	788
BAR STEEL REINFORCEMENT HS COATED BRIDGES	LB	3,100	3,100	-	174,830	181,030
BEARING PADS ELASTOMERIC LAMINATED	EACH	12	12	-	-	24
WELDED STUD SHEAR CONNECTORS 7/8x5-INCH	EACH	-	-	-	612	612
BEARING ASSEMBLIES FIXED STRUCTURE B-40-404	EACH	-	-	12	-	12
CONCRETE SURFACE REPAIR *	SF	155	100	45	-	300
RUBBERIZED MEMBRANE WATERPROOFING	SY	25	25	-	-	50
SLOPE PAVING CONCRETE	SY	12	72	-	-	84
CONDUIT RIGID METALLIC 2 1/2-INCH	LF	60	60	-	20	140
CONDUIT RIGID NONMETALLIC SCHEDULE 40 1 1/2-INCH	LF	-	-	-	5	5
CONDUIT RIGID NONMETALLIC SCHEDULE 40 2 1/2-INCH	LF	-	-	-	780	780
JUNCTION BOXES 18x12x6-INCH	EACH	-	-	-	-	2
ANCHOR ASSEMBLIES FOR STEEL PLATE BEAM GUARD	EACH	-	-	-	-	4
REMOVING BEARINGS STRUCTURE B-40-404	EACH	12	12	12	-	36
PREPARATION AND COATING OF TOP FLANGES	LS	-	-	-	-	1
STRUCTURE REPAINTING RECYCLED ABRASIVE STRUCTURE B-40-404	LS	-	-	-	-	1
CONTAINMENT AND COLLECTION OF WASTE MATERIALS STRUCTURE B-40-404	LS	-	-	-	-	1
NEGATIVE PRESSURE CONTAINMENT AND COLLECTION OF WASTE MATERIALS, STRUCTURE B-40-404	LS	-	-	-	-	1
PORTABLE DECONTAMINATION FACILITY	LS	-	-	-	-	1
ANCHOR ASSEMBLIES LIGHT POLES	EACH	-	-	-	2	2
NON-BID ITEMS						
NAME PLATE						
PREFORMED JOINT FILLER						

* EXACT QUANTITIES OF ITEMS "CONCRETE SURFACE REPAIR", AND "REMOVING CONCRETE SLOPE PAVING" TO BE MEASURED/ VERIFIED IN THE FIELD AND APPROVED BY THE ENGINEER.

VOID



PROPOSED PROFILE GRADE LINE NB STH 181 (N. 76TH ST)



PROPOSED PROFILE GRADE LINE SB STH 181 (N. 76TH ST)

LIST OF DRAWINGS

1. GENERAL PLAN AND ELEVATION
2. TYPICAL SECTION, QUANTITIES AND DESIGN DATA
3. SOUTH ABUTMENT
4. SOUTH ABUTMENT DETAILS
5. NORTH ABUTMENT
6. NORTH ABUTMENT DETAILS
7. SUPERSTRUCTURE (1 OF 2)
8. SUPERSTRUCTURE (2 OF 2)
9. SUPERSTRUCTURE DETAILS
10. DECK ELEVATIONS & SUPERSTRUCTURE DEFLECTIONS
11. PARAPET TYPE "LF"
12. EXPANSION JOINT DETAILS (1 OF 2)
13. EXPANSION JOINT DETAILS (2 OF 2)
14. BEARING DETAILS AT PIER
15. BEARING DETAILS AT ABUTMENTS
16. CONDUIT DETAILS
17. LIGHTING DETAILS
18. SLOPE PAVING REPAIRS
19. SOUTH ABUTMENT SURFACE REPAIR DETAILS
20. NORTH ABUTMENT SURFACE REPAIR DETAILS
21. PIER SURFACE REPAIR DETAILS

BRIDGE WORK NOTES

THE EXISTING DECK, SIDEWALKS, PARAPETS, RAILINGS, MEDIANS AND BEARINGS WILL BE REMOVED AND REPLACED IN THIS CONTRACT.

THE EXISTING GIRDERS AND SECONDARY MEMBERS WILL REMAIN AND BE RAISED TO PROVIDE ADEQUATE VERTICAL CLEARANCE OVER WEST BROWN DEER ROAD.

ABUTMENT BACKWALLS AND ALL WINGWALLS WILL BE RECONSTRUCTED ABOVE PAVING NOTCH.

THE CONTRACTOR SHALL SUBMIT A REMOVAL PLAN TO THE ENGINEER FOR APPROVAL.
THE REMOVAL PROCEDURE SHALL PREVENT DAMAGE TO THE UNDERPASSING ROADWAY. TRAFFIC CONTROL DURING THE DECK REMOVAL SHALL BE APPROVED BY THE ENGINEER.

PLANS OF THE EXISTING BRIDGE ARE ON FILE AND ARE AVAILABLE FOR INSPECTION AT THE WISCONSIN DEPARTMENT OF TRANSPORTATION, SOUTHEAST REGION, 141 NW BARSTOW ST WAUKESHA, WI 53187-0789.

DESIGN DATA

DESIGN SPECIFICATIONS - AASHTO 2002
DESIGN LIVE LOAD - HS 20
INVENTORY RATING - HS 19.8
OPERATING RATING - HS 33
FATIGUE RATING - HS 18
MAX STANDARD PERMIT VEHICLE LOAD - 250 KIPS

ULTIMATE DESIGN STRESSES:

CONCRETE DECK.....f'c=4,000 psi
ALL OTHERS.....f'c=3,500 psi

HIGH STRENGTH ALLOY STRUCTURAL STEEL
ASTM A709 GRADE 36.....fy=36,000 psi

HIGH STRENGTH BAR STEEL
REINFORCEMENT (GRADE 60).....fy=60,000 psi

TRAFFIC DATA

N. 76TH ST. NB, SB : ADT (2001) = 21,700
ADT (2017) = 23,000
DESIGN SPEED = 40 MPH

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
STRUCTURES DESIGN SECTION

STRUCTURE B-40-404

CONST. SPEC.	2006	DRAWN BY	TB	PLANS CK'D.	YB

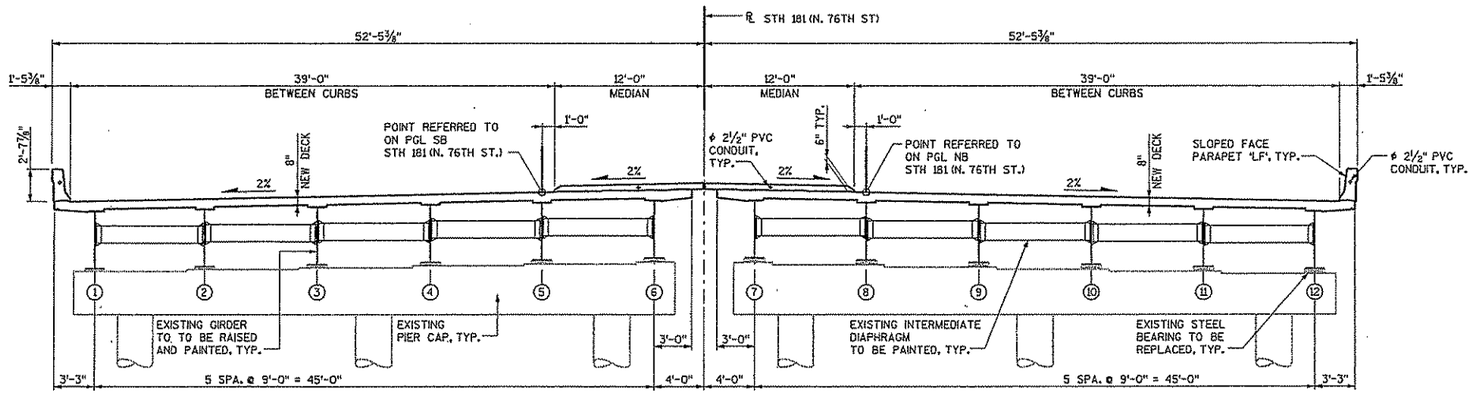
TYPICAL SECTION, QUANTITIES AND DESIGN DATA

SHEET 2 OF 21

8

STATE PROJECT NUMBER

2140-08-73



SOUTH BOUND

TYPICAL SECTION

(LOOKING NORTH)

NOTE: ALL HORIZONTAL DIMENSIONS SHOWN ARE TAKEN NORMAL TO ℄ N. 76TH ST.

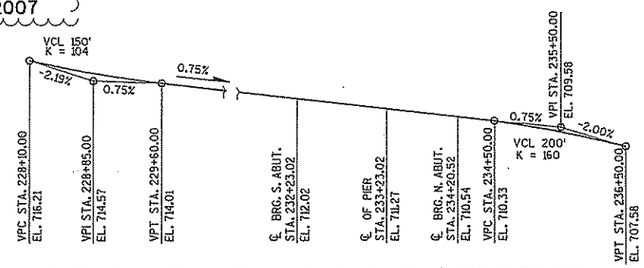
NORTH BOUND

TOTAL ESTIMATE OF QUANTITIES

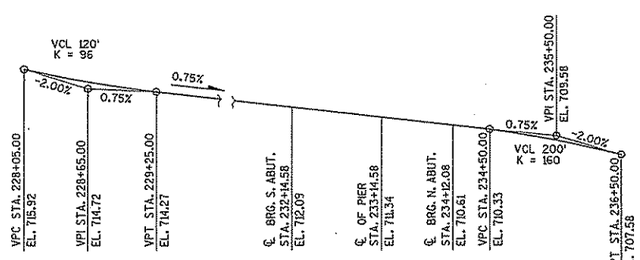
BID ITEMS	UNIT	SOUTH ABUT.	NORTH ABUT.	PIER	SUPER.	TOTAL
REMOVING OLD STRUCTURE B-40-404 STA. 233+18.80	LS	-	-	-	-	1
REMOVING CONCRETE SLOPE PAVING *	SY	21	3	-	-	24
BACKFILL STRUCTURE	CY	19	19	-	-	38
CONCRETE MASONRY BRIDGES	CY	17	17	-	666	700
COMPRESSION JOINT. SEALER PREFORMED ELASTOMERIC (3-INCH)	LF	-	-	-	199	199
EXPANSION DEVICE STRUCTURE B-40-404	LS	-	-	-	-	1
PROTECTIVE SURFACE TREATMENT	SY	16	16	-	2,415	2,447
MASONRY ANCHORS TYPE L NO.5 BARS	EACH	394	394	-	-	788
BAR STEEL REINFORCEMENT HS COATED BRIDGES	LB	3,100	3,100	-	174,830	181,030
BEARING PADS ELASTOMERIC LAMINATED	EACH	12	12	-	-	24
WELDED STUD SHEAR CONNECTORS 7/8x5-INCH	EACH	-	-	-	612	612
BEARING ASSEMBLIES FIXED STRUCTURE B-40-404	EACH	-	-	12	-	12
CONCRETE SURFACE REPAIR *	SF	155	100	45	-	300
RUBBERIZED MEMBRANE WATERPROOFING	SY	25	25	-	-	50
SLOPE PAVING CONCRETE	SY	21	3	-	-	24
CONDUIT RIGID METALLIC 2 1/2-INCH	LF	60	60	-	20	140
CONDUIT RIGID NONMETALLIC SCHEDULE 40 1 1/2-INCH	LF	-	-	-	5	5
CONDUIT RIGID NONMETALLIC SCHEDULE 40 2 1/2-INCH	LF	-	-	-	780	780
JUNCTION BOXES 18x12x6-INCH	EACH	-	-	-	-	2
ANCHOR ASSEMBLIES FOR STEEL PLATE BEAM GUARD	EACH	-	-	-	-	4
REMOVING BEARINGS STRUCTURE B-40-404	EACH	12	12	12	-	36
PREPARATION AND COATING OF TOP FLANGES	LS	-	-	-	-	1
STRUCTURE REPAINTING RECYCLED ABRASIVE STRUCTURE B-40-404	LS	-	-	-	-	1
NEGATIVE PRESSURE CONTAINMENT AND COLLECTION OF WASTE MATERIALS, STRUCTURE B-40-404	LS	-	-	-	-	1
PORTABLE DECONTAMINATION FACILITY	LS	-	-	-	-	1
ANCHOR ASSEMBLIES LIGHT POLES	EACH	-	-	-	2	2
EPOXY CRACK SEALING *	LF	75	65	2	-	142
NON-BID ITEMS						
NAME PLATE						
PREFORMED JOINT FILLER						

* EXACT QUANTITIES OF ITEMS "CONCRETE SURFACE REPAIR", AND "REMOVING CONCRETE SLOPE PAVING" TO BE MEASURED/ VERIFIED IN THE FIELD AND APPROVED BY THE ENGINEER.

ADDENDUM NO.2
REV. SHEET 2
12/21/2007



PROPOSED PROFILE GRADE LINE NB STH 181 (N. 76TH ST)



PROPOSED PROFILE GRADE LINE SB STH 181 (N. 76TH ST)

LIST OF DRAWINGS

1. GENERAL PLAN AND ELEVATION
2. TYPICAL SECTION, QUANTITIES AND DESIGN DATA
3. SOUTH ABUTMENT
4. SOUTH ABUTMENT DETAILS
5. NORTH ABUTMENT
6. NORTH ABUTMENT DETAILS
7. SUPERSTRUCTURE (1 OF 2)
8. SUPERSTRUCTURE (2 OF 2)
9. SUPERSTRUCTURE DETAILS
10. DECK ELEVATIONS & SUPERSTRUCTURE DEFLECTIONS
11. PARAPET TYPE "LF"
12. EXPANSION JOINT DETAILS (1 OF 2)
13. EXPANSION JOINT DETAILS (2 OF 2)
14. BEARING DETAILS AT PIER
15. BEARING DETAILS AT ABUTMENTS
16. CONDUIT DETAILS
17. LIGHTING DETAILS
18. SLOPE PAVING REPAIRS
19. SOUTH ABUTMENT SURFACE REPAIR DETAILS
20. NORTH ABUTMENT SURFACE REPAIR DETAILS
21. PIER SURFACE REPAIR DETAILS

BRIDGE WORK NOTES

THE EXISTING DECK, SIDEWALKS, PARAPETS, RAILINGS, MEDIANS AND BEARINGS WILL BE REMOVED AND REPLACED IN THIS CONTRACT.

THE EXISTING GIRDERS AND SECONDARY MEMBERS WILL REMAIN AND BE RAISED TO PROVIDE ADEQUATE VERTICAL CLEARANCE OVER WEST BROWN DEER ROAD.

ABUTMENT BACKWALLS AND ALL WINGWALLS WILL BE RECONSTRUCTED ABOVE PAVING NOTCH.

THE CONTRACTOR SHALL SUBMIT A REMOVAL PLAN TO THE ENGINEER FOR APPROVAL.
THE REMOVAL PROCEDURE SHALL PREVENT DAMAGE TO THE UNDERPASSING ROADWAY. TRAFFIC CONTROL DURING THE DECK REMOVAL SHALL BE APPROVED BY THE ENGINEER.

PLANS OF THE EXISTING BRIDGE ARE ON FILE AND ARE AVAILABLE FOR INSPECTION AT THE WISCONSIN DEPARTMENT OF TRANSPORTATION, SOUTHEAST REGION, 141 NW BARSTOW ST WAUKESHA, WI 53187-0789.

DESIGN DATA

DESIGN SPECIFICATIONS - AASHTO 2002
DESIGN LIVE LOAD - HS 20
INVENTORY RATING - HS 19.8
OPERATING RATING - HS 33
FATIGUE RATING - HS 18
MAX STANDARD PERMIT VEHICLE LOAD - 250 KIPS

ULTIMATE DESIGN STRESSES:

CONCRETE DECK.....f'c=4,000 psi
ALL OTHERS.....f'c=3,500 psi

HIGH STRENGTH ALLOY STRUCTURAL STEEL
ASTM A709 GRADE 36.....fy=36,000 psi

HIGH STRENGTH BAR STEEL
REINFORCEMENT (GRADE 60).....fy=60,000 psi

TRAFFIC DATA

N. 76TH ST. NB, SB : ADT (2001) = 21,700
ADT (2017) = 23,000
DESIGN SPEED = 40 MPH

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
STRUCTURES DESIGN SECTION

STRUCTURE B-40-404

CONST. SPEC.	2005	DRAWN BY	TB	PLANS CKD.	YB

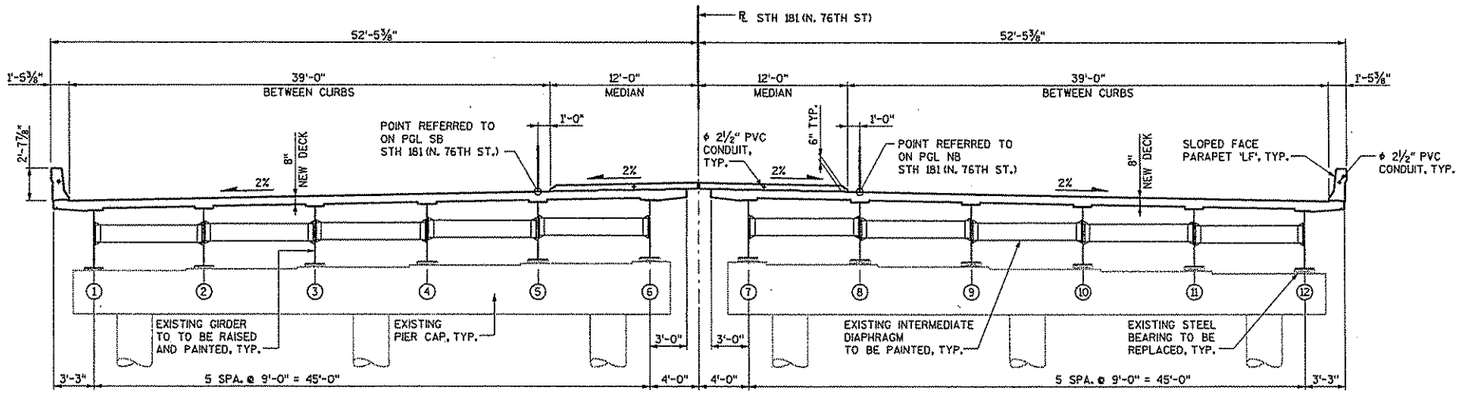
TYPICAL SECTION, QUANTITIES AND DESIGN DATA

SHEET 2 OF 21

349-A

8

STATE PROJECT NUMBER
2140-08-73



SOUTH BOUND

TYPICAL SECTION

(LOOKING NORTH)

NOTE: ALL HORIZONTAL DIMENSIONS SHOWN ARE TAKEN NORMAL TO ℄ N. 76TH ST.

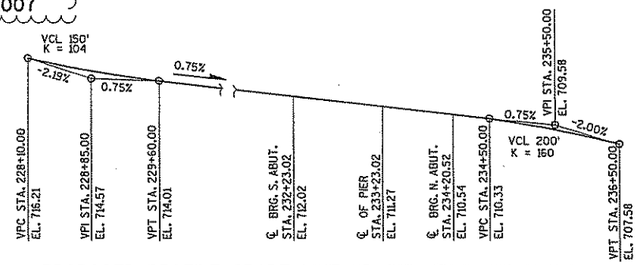
NORTH BOUND

TOTAL ESTIMATE OF QUANTITIES

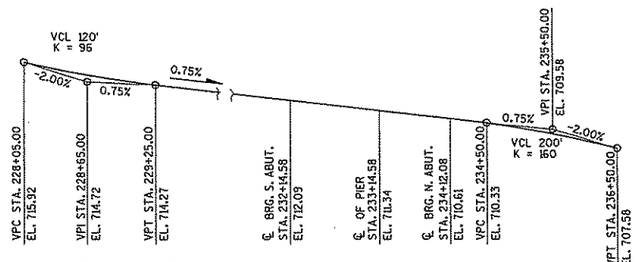
BID ITEMS	UNIT	SOUTH ABUT.	NORTH ABUT.	PIER	SUPER.	TOTAL
REMOVING OLD STRUCTURE B-40-404 STA. 233+18.80	LS	-	-	-	-	1
REMOVING CONCRETE SLOPE PAVING *	SY	21	3	-	-	24
BACKFILL STRUCTURE	CY	19	19	-	-	38
CONCRETE MASONRY BRIDGES	CY	17	17	-	666	700
COMPRESSION JOINT SEALER PREFORMED ELASTOMERIC (3-INCH)	LF	-	-	-	199	199
EXPANSION DEVICE STRUCTURE B-40-404	LS	-	-	-	-	1
PROTECTIVE SURFACE TREATMENT	SY	16	16	-	2,415	2,447
MASONRY ANCHORS TYPE L NO.5 BARS	EACH	394	394	-	-	788
BAR STEEL REINFORCEMENT HS COATED BRIDGES	LB	3,100	3,100	-	174,830	181,030
BEARING PADS ELASTOMERIC LAMINATED	EACH	12	12	-	-	24
WELDED STUD SHEAR CONNECTORS 7/8x5-INCH	EACH	-	-	-	612	612
BEARING ASSEMBLIES FIXED STRUCTURE B-40-404	EACH	-	-	12	-	12
CONCRETE SURFACE REPAIR *	SF	155	100	45	-	300
RUBBERIZED MEMBRANE WATERPROOFING	SY	25	25	-	-	50
SLOPE PAVING CONCRETE	SY	21	3	-	-	24
CONDUIT RIGID METALLIC 2 1/2-INCH	LF	60	60	-	20	140
CONDUIT RIGID NONMETALLIC SCHEDULE 40 1 1/2-INCH	LF	-	-	-	5	5
CONDUIT RIGID NONMETALLIC SCHEDULE 40 2 1/2-INCH	LF	-	-	-	780	780
JUNCTION BOXES 18x12x6-INCH	EACH	-	-	-	-	2
ANCHOR ASSEMBLIES FOR STEEL PLATE BEAM GUARD	EACH	-	-	-	-	4
REMOVING BEARINGS STRUCTURE B-40-404	EACH	12	12	12	-	36
PREPARATION AND COATING OF TOP FLANGES	LS	-	-	-	-	1
STRUCTURE REPAINTING RECYCLED ABRASIVE STRUCTURE B-40-404	LS	-	-	-	-	1
NEGATIVE PRESSURE CONTAINMENT AND COLLECTION OF WASTE MATERIALS, STRUCTURE B-40-404	LS	-	-	-	-	1
PORTABLE DECONTAMINATION FACILITY	LS	-	-	-	-	1
ANCHOR ASSEMBLIES LIGHT POLES	EACH	-	-	-	2	2
EPOXY CRACK SEALING *	LF	75	65	2	-	142
NON-BID ITEMS						
NAME PLATE						
PREFORMED JOINT FILLER						

ADDENDUM NO.2
REV. SHEET 2
12/21/2007

* EXACT QUANTITIES OF ITEMS "CONCRETE SURFACE REPAIR", AND "REMOVING CONCRETE SLOPE PAVING" TO BE MEASURED/ VERIFIED IN THE FIELD AND APPROVED BY THE ENGINEER.



PROPOSED PROFILE GRADE LINE NB STH 181 (N. 76TH ST)



PROPOSED PROFILE GRADE LINE SB STH 181 (N. 76TH ST)

LIST OF DRAWINGS

1. GENERAL PLAN AND ELEVATION
2. TYPICAL SECTION, QUANTITIES AND DESIGN DATA
3. SOUTH ABUTMENT
4. SOUTH ABUTMENT DETAILS
5. NORTH ABUTMENT
6. NORTH ABUTMENT DETAILS
7. SUPERSTRUCTURE (1 OF 2)
8. SUPERSTRUCTURE (2 OF 2)
9. SUPERSTRUCTURE DETAILS
10. DECK ELEVATIONS & SUPERSTRUCTURE DEFLECTIONS
11. PARAPET TYPE "LF"
12. EXPANSION JOINT DETAILS (1 OF 2)
13. EXPANSION JOINT DETAILS (2 OF 2)
14. BEARING DETAILS AT PIER
15. BEARING DETAILS AT ABUTMENTS
16. CONDUIT DETAILS
17. LIGHTING DETAILS
18. SLOPE PAVING REPAIRS
19. SOUTH ABUTMENT SURFACE REPAIR DETAILS
20. NORTH ABUTMENT SURFACE REPAIR DETAILS
21. PIER SURFACE REPAIR DETAILS

BRIDGE WORK NOTES

THE EXISTING DECK, SIDEWALKS, PARAPETS, RAILINGS, MEDIANS AND BEARINGS WILL BE REMOVED AND REPLACED IN THIS CONTRACT.

THE EXISTING GIRDERS AND SECONDARY MEMBERS WILL REMAIN AND BE RAISED TO PROVIDE ADEQUATE VERTICAL CLEARANCE OVER WEST BROWN DEER ROAD.

ABUTMENT BACKWALLS AND ALL WINGWALLS WILL BE RECONSTRUCTED ABOVE PAVING NOTCH.

THE CONTRACTOR SHALL SUBMIT A REMOVAL PLAN TO THE ENGINEER FOR APPROVAL.
THE REMOVAL PROCEDURE SHALL PREVENT DAMAGE TO THE UNDERPASSING ROADWAY. TRAFFIC CONTROL DURING THE DECK REMOVAL SHALL BE APPROVED BY THE ENGINEER.

PLANS OF THE EXISTING BRIDGE ARE ON FILE AND ARE AVAILABLE FOR INSPECTION AT THE WISCONSIN DEPARTMENT OF TRANSPORTATION, SOUTHEAST REGION, 141 NW BARSTOW ST WAUKESHA, WI 53187-0789.

DESIGN DATA

DESIGN SPECIFICATIONS - AASHTO 2002
DESIGN LIVE LOAD - HS 20
INVENTORY RATING - HS 19.8
OPERATING RATING - HS 33
FATIGUE RATING - HS 18
MAX STANDARD PERMIT VEHICLE LOAD - 250 KIPS

ULTIMATE DESIGN STRESSES:

CONCRETE DECK.....f'c=4,000 psi
ALL OTHERS.....f'c=3,500 psi

HIGH STRENGTH ALLOY STRUCTURAL STEEL
ASTM A709 GRADE 36.....fy=36,000 psi

HIGH STRENGTH BAR STEEL
REINFORCEMENT (GRADE 60).....fy=50,000 psi

TRAFFIC DATA

N. 76TH ST. NB, SB : ADT (2001) = 21,700
ADT (2017) = 23,000
DESIGN SPEED = 40 MPH

8

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
STRUCTURES DESIGN SECTION

STRUCTURE B-40-404

CONST. SPEC.	2006	DRAWN BY	TB	PLANS CK'D.	YB

TYPICAL SECTION, QUANTITIES AND DESIGN DATA

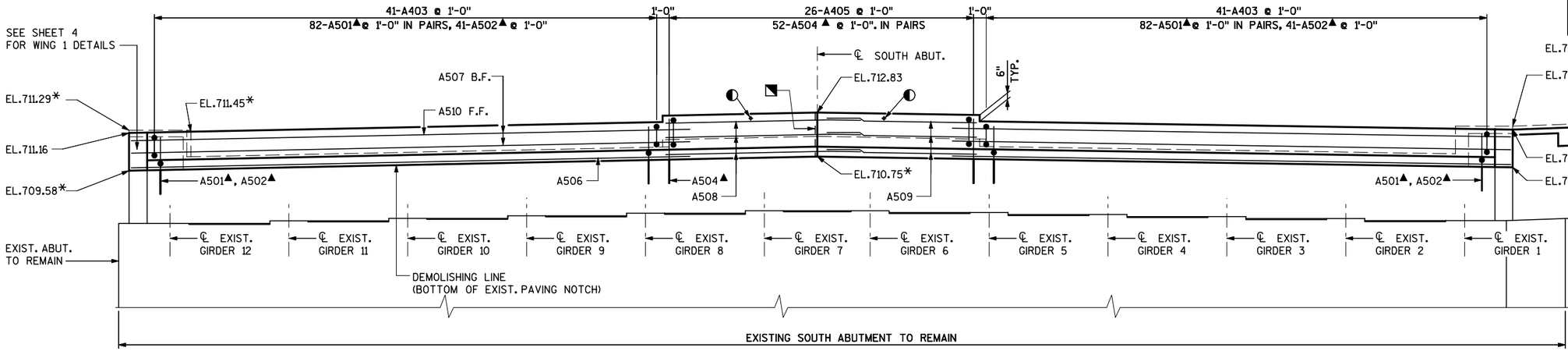
SHEET 2 OF 21

B49-A

FILE NAME: 02B49-1358_TYP_SECT.dgn PEN TABLE: v8_Structural.tbl Date: 5:00:47 PM Plotted by: TBRAVERMAN

STATE PROJECT NUMBER

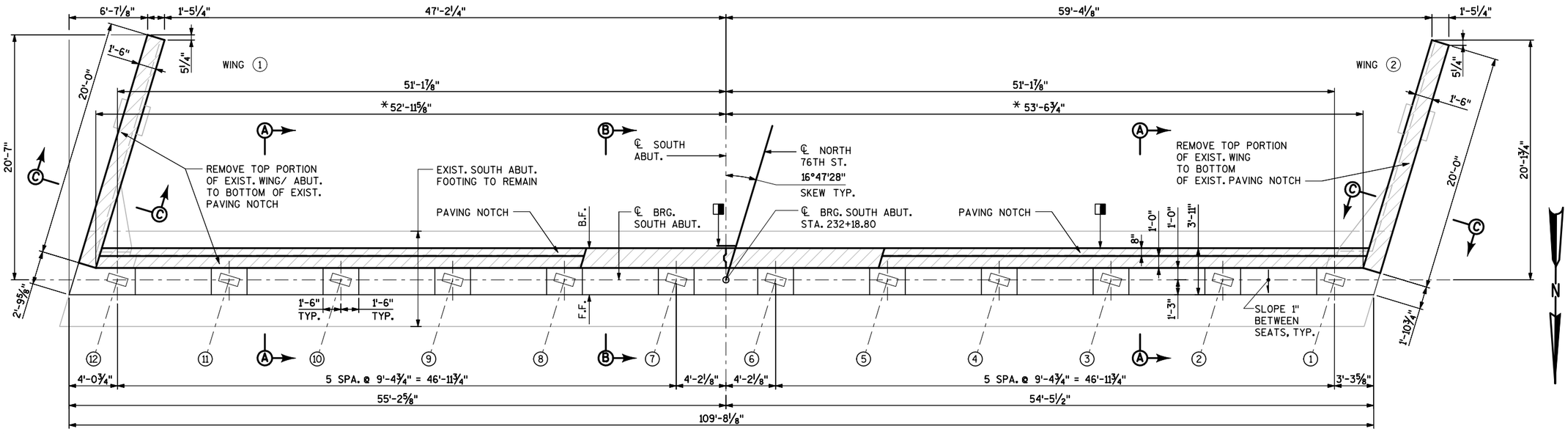
2140-08-73



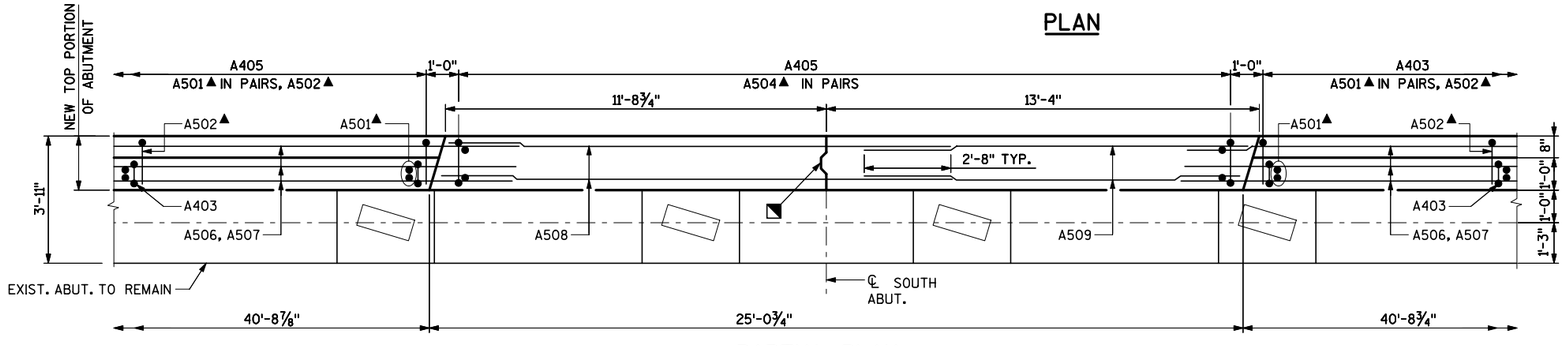
ELEVATION
(LOOKING SOUTH)

LEGEND

- ◧ - 18" RUBBERIZED MEMBRANE WATERPROOFING
- ◪ - VERTICAL CONST. JOINT KEYWAY FORMED BY BEVELED 2"x8".
- * - EXISTING DIMENSIONS AND ELEVATIONS TO BE VERIFIED IN FIELD.
- Ⓧ - GIRDER NUMBER ON PLAN VIEW
  F.F. - FRONT FACE, B.F. - BACK FACE
- ▲ - CONCRETE MASONRY ANCHORS, TYPE L, NO. 5 BARS EMBED 1'-3
- ◐ - ϕ 2½" METALLIC CONDUIT, TYP.



PLAN



PARTIAL PLAN
SHOWING NEW STRUCTURE ONLY

EXISTING BEARING SEAT ELEVATIONS *

	SOUTH BOUND					
GIRDER *	1	2	3	4	5	6
	705.67	705.83	705.99	706.15	706.31	706.45

	NORTH BOUND					
GIRDER *	7	8	9	10	11	12
	706.45	706.25	706.05	705.85	705.65	705.45

NOTES

FOR SECTIONS A-A, B-B, C-C AND WINGS 1& 2 DETAILS SEE SHEET 4.

FOR BAR BENDING DIAGRAMS AND BILL OF BARS SEE SHEET 4.

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
STRUCTURES DESIGN SECTION

STRUCTURE B-40-404

CONST. SPEC.	2006	DRAWN BY	TB	PLANS CK'D.	YB

SOUTH ABUTMENT

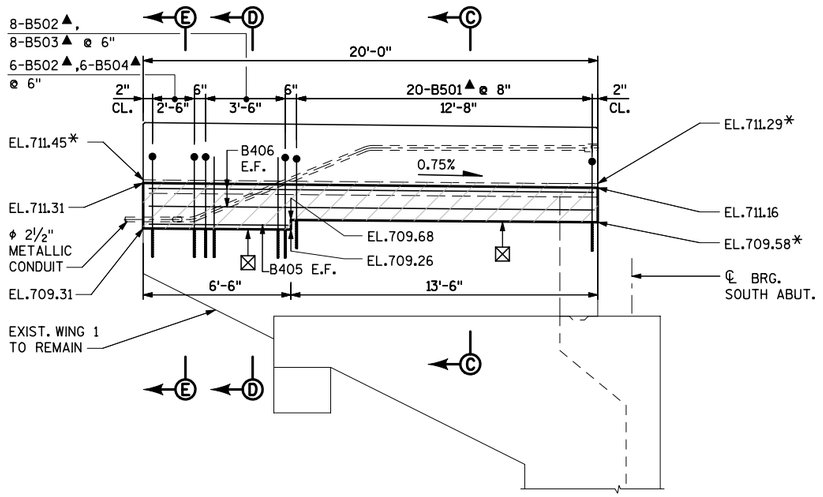
SHEET 3 OF 21
850

8

FILE NAME: DGN$SPEC$$$

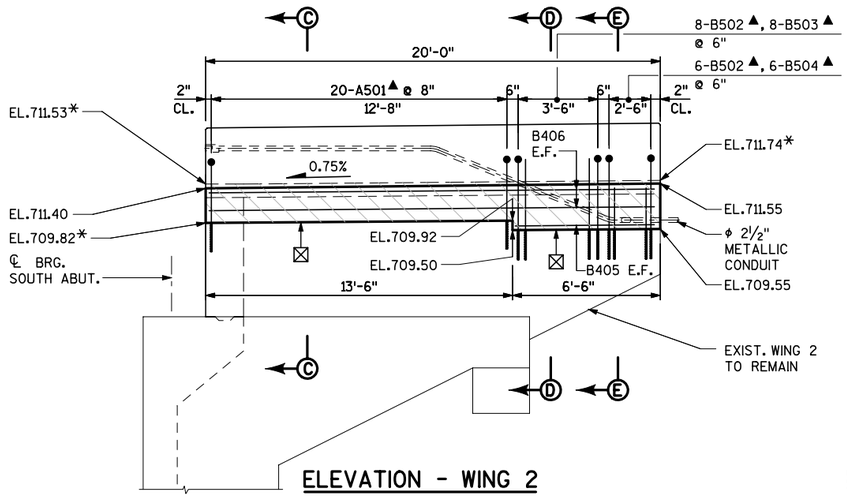
STATE PROJECT NUMBER

2140-08-73



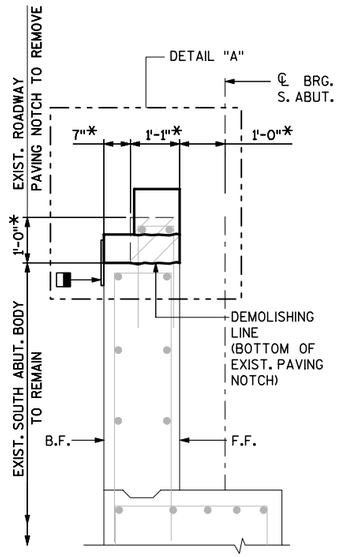
ELEVATION - WING 1

(FRONT FACE)

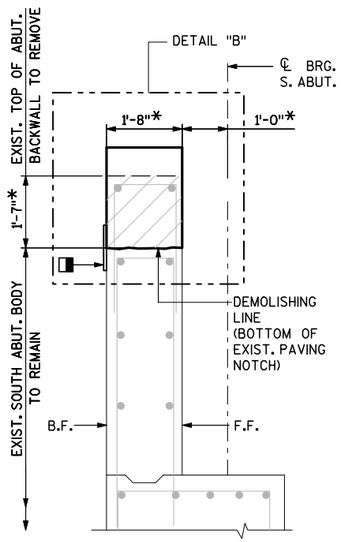


ELEVATION - WING 2

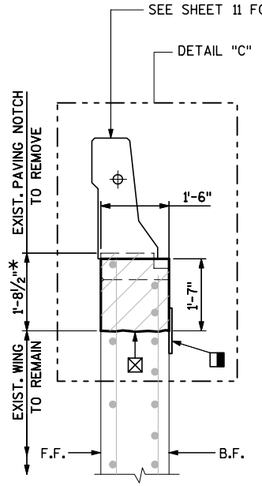
(FRONT FACE)



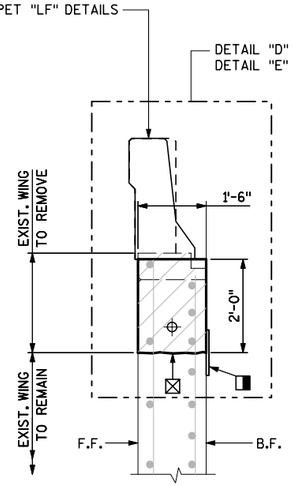
SECTION A-A



SECTION B-B

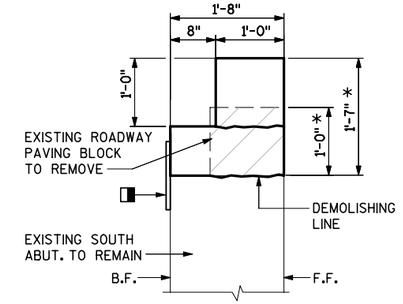


SECTION C-C



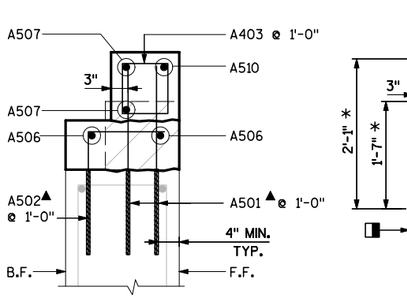
SECTION D-D
SECTION E-E

(SEE DETAILS "D" AND "E" FOR EXACT PARAPET SHAPE AND REINFORCEMENT DETAILS)



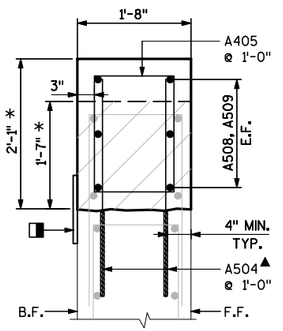
DETAIL "A"

(SHOWING DIMENSIONS)



DETAIL "A"

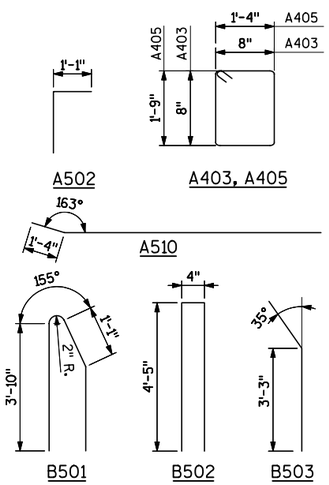
(SHOWING REINFORCEMENT)



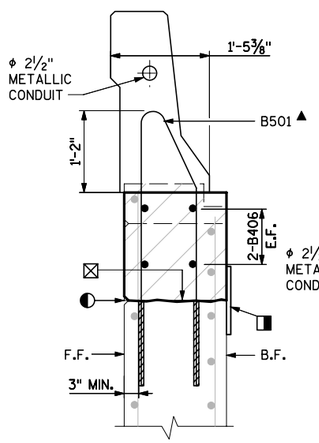
DETAIL "B"

BILL OF BARS

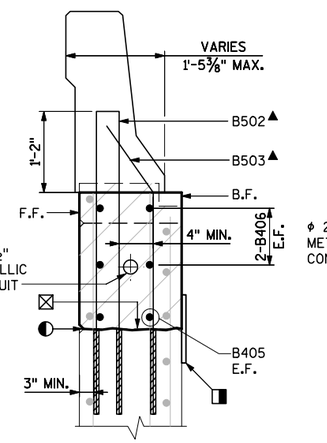
	BAR MARK	COAT	NO. REQ'D	LENGTH	BENT	BAR SERIES	LOCATION
▲	A501	X	164	2'-7"	-	-	ABUT. BACKWALL - VERTICAL
▲	A502	X	82	2'-7"	X	-	ABUT. BACKWALL - VERTICAL, B.F.
	A403	X	82	2'-10"	X	-	PAVING BLOCK - VERTICAL
▲	A504	X	52	3'-0"	-	-	ABUT. BACKWALL - VERTICAL
	A405	X	26	6'-4"	X	-	ABUT. BACKWALL - VERTICAL
	A506	X	4	43'-2"	-	-	ABUT. BACKWALL - HORIZ., TOP
	A507	X	4	43'-2"	-	-	ABUT. PAVING BLOCK - HORIZ., B.F.
	A508	X	6	15'-4"	-	-	ABUT. BACKWALL - HORIZ., E.F.
	A509	X	6	11'-10"	-	-	BACKWALL - HORIZ., E.F.
	A510	X	2	43'-2"	X	-	ABUT. PAVING BLOCK - HORIZ., F.F.
▲	B501	X	40	8'-4"	X	-	WINGS 1, 2 - VERT.
▲	B502	X	28	9'-0"	X	-	WINGS 1, 2 - VERT.
▲	B503	X	16	4'-3"	X	-	WINGS 1, 2 - VERT.
▲	B504	X	12	3'-0"	-	-	WINGS 1, 2 - VERT.
	B405	X	4	6'-0"	-	-	WINGS 1, 2 - HORIZ., E.F.
	B406	X	8	19'-6"	-	-	WINGS 1, 2 - HORIZ., E.F.



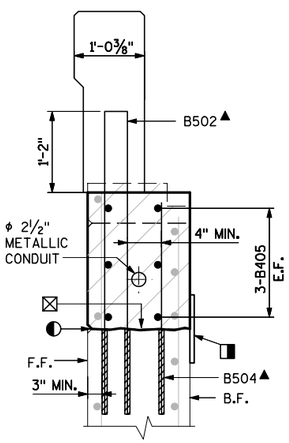
BENDING DIAGRAMS



DETAIL "C"



DETAIL "D"



DETAIL "E"

LEGEND

- ◨ - 18" RUBBERIZED MEMBRANE WATERPROOFING
- F.F. - FRONT FACE, B.F. - BACK FACE, E.F. - EACH FACE
- * - EXISTING DIM. & ELEVATIONS TO BE VERIFIED IN FIELD.
- ▲ - CONCRETE MASONRY ANCHORES, TYPE L NO. 5 BARS EMBED 1'-3"
- ⊠ - DEMOLISHING LINE
- ◐ - ¾" V-GROOVE

NOTES

FOR SOUTH ABUTMENT GEOMETRY, SECTIONS A-A & B-B, SEE SHEET 3.

FOR PARAPET "LF" DETAILS SEE SHEET 11.

FOR CONDUIT AND LIGHT STANDARD DETAILS SEE SHEETS 16, 17.

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
STRUCTURES DESIGN SECTION

STRUCTURE B-40-404

CONST. SPEC.	2006	DRAWN BY	TB	PLANS CK'D.	YB

SOUTH ABUTMENT DETAILS

SHEET 4 OF 21

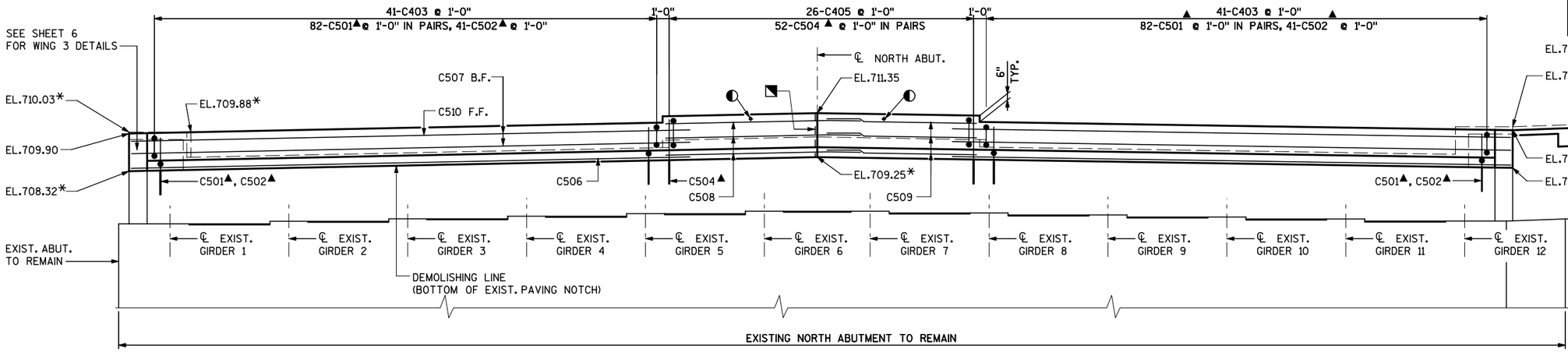
851

8

FILE NAME: DGN$SPEC$$$

STATE PROJECT NUMBER

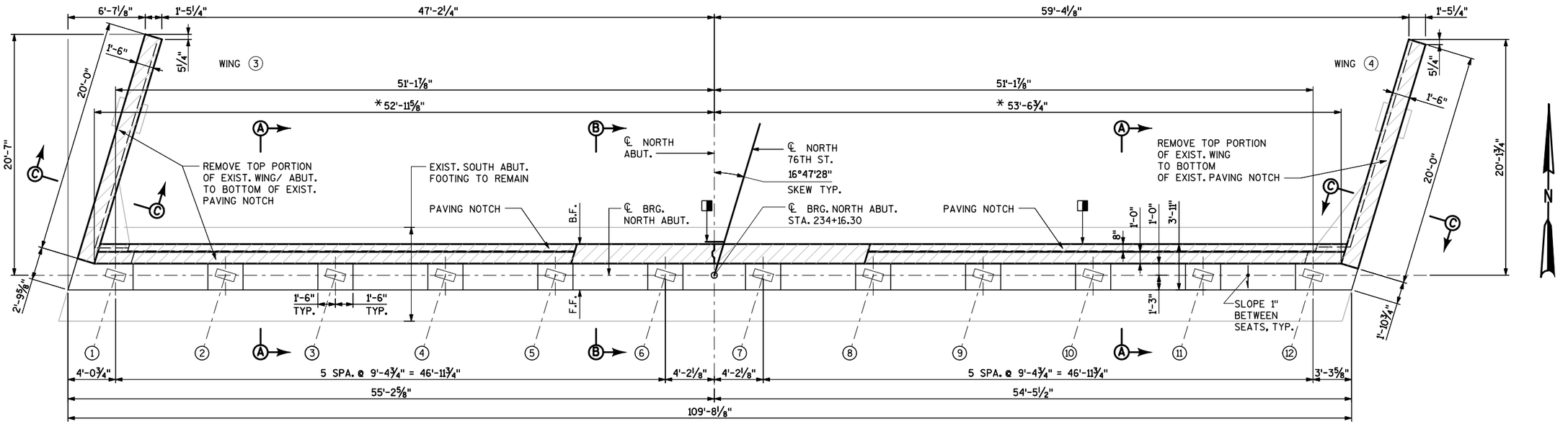
2140-08-73



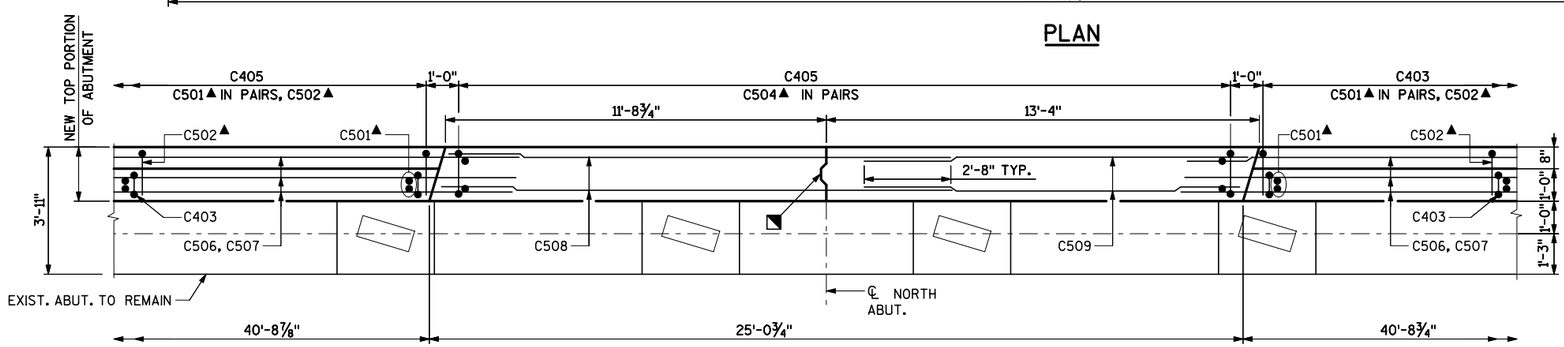
ELEVATION
(LOOKING NORTH)

LEGEND

- ◧ - 18" RUBBERIZED MEMBRANE WATERPROOFING
- ◪ - VERTICAL CONST. JOINT KEYWAY FORMED BY BEVELED 2"x8".
- * - EXISTING DIMENSIONS AND ELEVATIONS TO BE VERIFIED IN FIELD.
- Ⓧ - GIRDER NUMBER ON PLAN VIEW
  F.F. - FRONT FACE, B.F. - BACK FACE
- ▲ - CONCRETE MASONRY ANCHORS, TYPE L, NO. 5 BARS EMBED 1'-3
- ◐ - ϕ 2½" METALLIC CONDUIT, TYP.



PLAN



PARTIAL PLAN
SHOWING NEW STRUCTURE ONLY

EXISTING BEARING SEAT ELEVATIONS *

	SOUTH BOUND					
GIRDER *	1	2	3	4	5	6
	704.20	704.36	704.52	704.68	704.84	704.98

	NORTH BOUND					
GIRDER *	7	8	9	10	11	12
	704.98	704.78	704.58	704.38	704.18	703.98

NOTES

FOR SECTIONS A-A, B-B, C-C AND WINGS 3 & 4 DETAILS SEE SHEET 7.

FOR BAR BENDING DIAGRAMS AND BILL OF BARS SEE SHEET 7.

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
STRUCTURES DESIGN SECTION

STRUCTURE B-40-404

CONST. SPEC.	2006	DRAWN BY	TB	PLANS CK'D.	YB

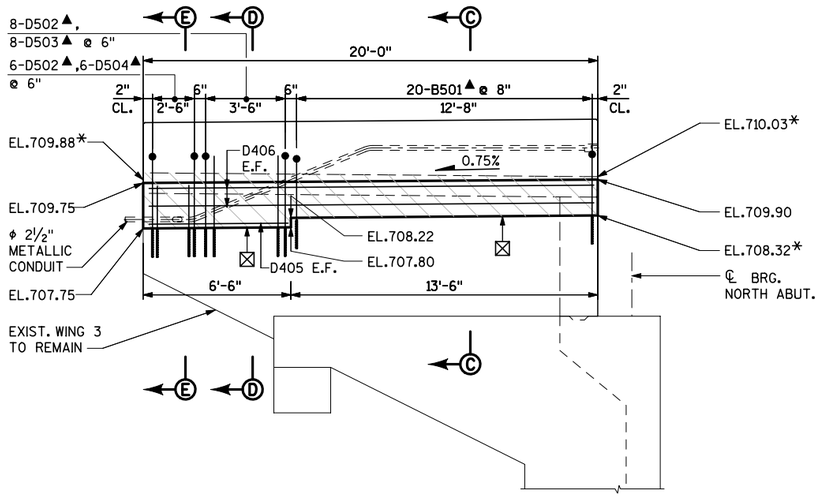
NORTH ABUTMENT

SHEET 5 OF 21
852

8

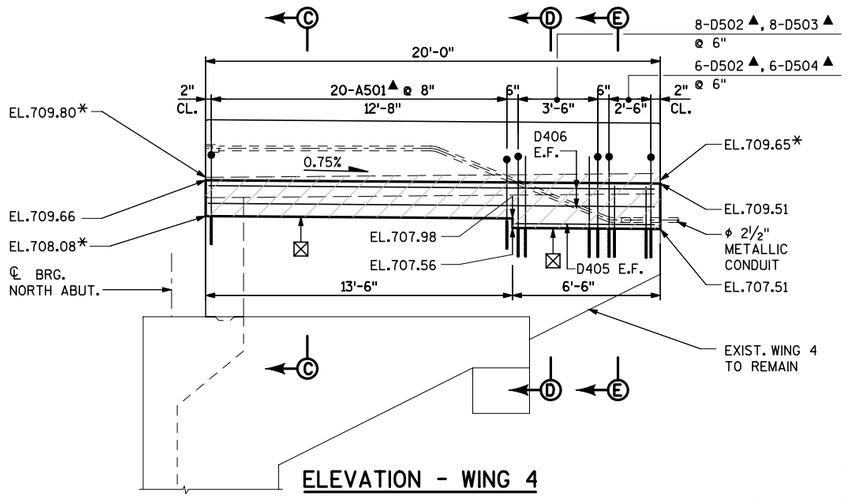
STATE PROJECT NUMBER

2140-08-73



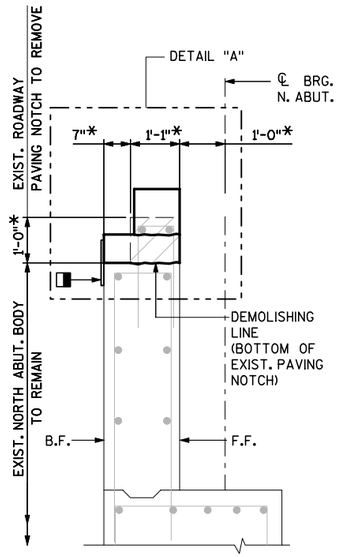
ELEVATION - WING 3

(FRONT FACE)

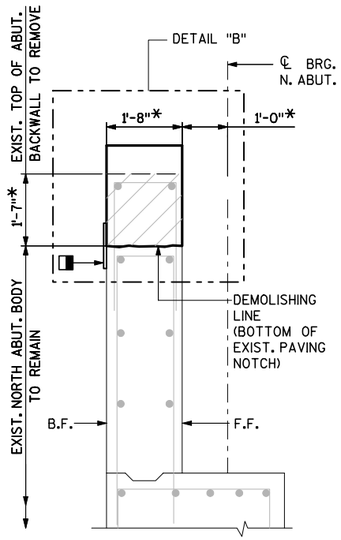


ELEVATION - WING 4

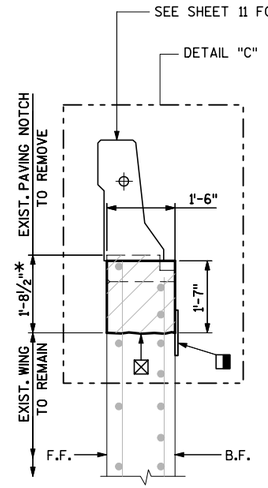
(FRONT FACE)



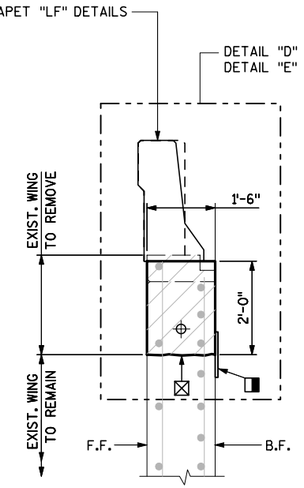
SECTION A-A



SECTION B-B

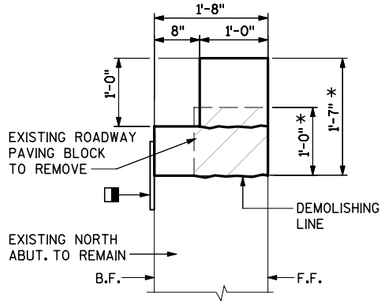


SECTION C-C



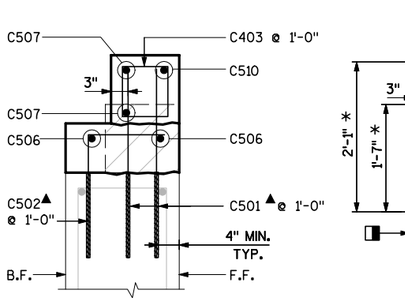
SECTION D-D
SECTION E-E

(SEE DETAILS "D" AND "E" FOR EXACT PARAPET SHAPE AND REINFORCEMENT DETAILS)



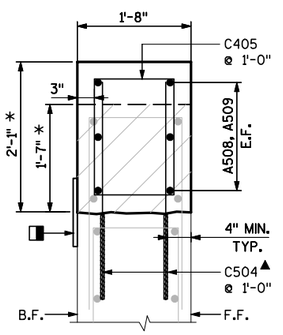
DETAIL "A"

(SHOWING DIMENSIONS)



DETAIL "A"

(SHOWING REINFORCEMENT)



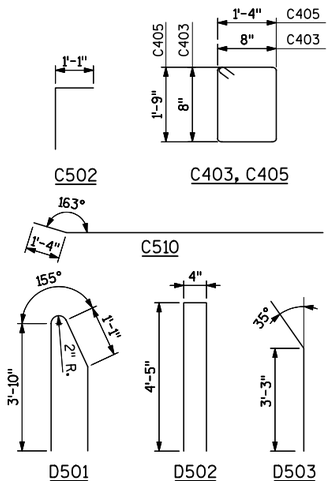
DETAIL "B"

LEGEND

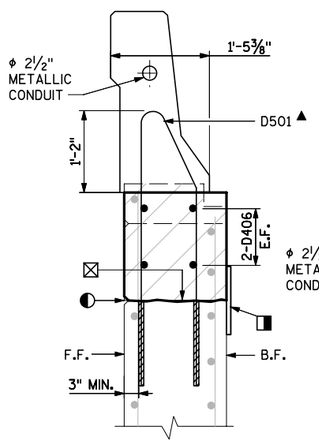
- ◨ - 18" RUBBERIZED MEMBRANE WATERPROOFING
- F.F. - FRONT FACE, B.F. - BACK FACE, E.F. - EACH FACE
- * - EXISTING DIM. & ELEVATIONS TO BE VERIFIED IN FIELD.
- ▲ - CONCRETE MASONRY ANCHORES, TYPE L NO. 5 BARS EMBED 1'-3"
- ⊠ - DEMOLISHING LINE
- ◐ - ¾" V-GROOVE

BILL OF BARS

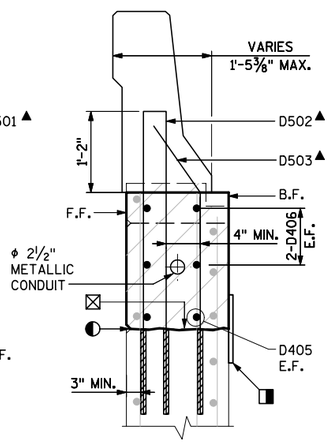
	BAR MARK	COAT	NO. REQ'D	LENGTH	BENT	BAR SERIES	LOCATION
▲	C501	X	164	2'-7"	-	-	ABUT. BACKWALL - VERTICAL
▲	C502	X	82	2'-7"	X	-	ABUT. BACKWALL - VERTICAL, B.F.
	C403	X	82	2'-10"	X	-	PAVING BLOCK - VERTICAL
▲	C504	X	52	3'-0"	-	-	ABUT. BACKWALL - VERTICAL
	C405	X	26	6'-4"	X	-	ABUT. BACKWALL - VERTICAL
	C506	X	4	43'-2"	-	-	ABUT. BACKWALL - HORIZ., TOP
	C507	X	4	43'-2"	-	-	ABUT. PAVING BLOCK - HORIZ., B.F.
	C508	X	6	15'-4"	-	-	ABUT. BACKWALL - HORIZ., E.F.
	C509	X	6	11'-10"	-	-	BACKWALL - HORIZ., E.F.
	C510	X	2	43'-2"	X	-	ABUT. PAVING BLOCK - HORIZ., F.F.
▲	D501	X	40	8'-4"	X	-	WINGS 3, 4 - VERT.
▲	D502	X	28	9'-0"	X	-	WINGS 3, 4 - VERT.
▲	D503	X	16	4'-3"	X	-	WINGS 3, 4 - VERT.
▲	D504	X	12	3'-0"	-	-	WINGS 3, 4 - VERT.
	D405	X	4	6'-0"	-	-	WINGS 3, 4 - HORIZ., E.F.
	D406	X	8	19'-6"	-	-	WINGS 3, 4 - HORIZ., E.F.



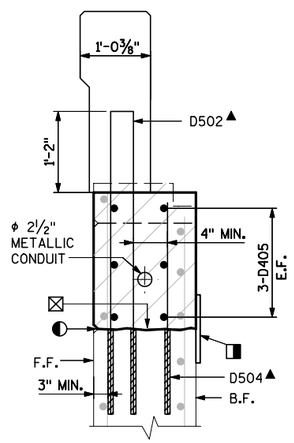
BENDING DIAGRAMS



DETAIL "C"



DETAIL "D"



DETAIL "E"

NOTES

FOR SOUTH ABUTMENT GEOMETRY, SECTIONS A-A & B-B, SEE SHEET 5.

FOR PARAPET "LF" DETAILS SEE SHEET 11.

FOR CONDUIT AND LIGHT STANDARD DETAILS SEE SHEETS 16, 17.

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
STRUCTURES DESIGN SECTION

STRUCTURE B-40-404

CONST. SPEC.	2006	DRAWN BY	TB	PLANS CK'D.	YB

NORTH ABUTMENT DETAILS

SHEET 6 OF 21
853

8

STATE PROJECT NUMBER

2140-08-73

199'-3" EDGE TO EDGE OF DECK

298-S512 @ 8", TYP.

EDGE OF DECK

℄ LIGHT STANDARD

PARAPET REINFORCEMENT SEE SHEET 11

FACE OF PARAPET

S512

1'-3"

1'-8" LAP #4, TYP.

S403 @ 7" TOP

S601 @ 7" TOP

S602 @ 7" TOP

3'-2" LAP #6, TYP.

S406 @ 7" TOP

S404 @ 7" TOP

S602 @ 7" TOP

340-S508 @ 6" TOP, 340-S508 @ 6" BOTTOM TRANSVERSE DECK REINFORCEMENT

S508

S509 TOP & BOT.

S413 @ 7" BOTTOM

S413 @ 7" BOTTOM

S413 @ 7" BOTTOM

S413 @ 7" BOTTOM

S415 @ 6"

S414 @ 7" BOTTOM

LONGITUDINAL DECK REINFORCEMENT S601, S602, S403, S404, S406 - TOP; S413, S414 - BOTTOM

0'-1" SEE SHEET 8 FOR DETAIL

51'-3"

52'-3"

1'-0"

1'-0"

℄ SB STH 181

FACE OF CURB

S422 @ 9" TOP

S422 @ 9" TOP

S422 @ 9" TOP

S422 @ 9" TOP

S423 @ 9" TOP

13'-0"

12'-0" MEDIAN

℄ STH 181 (N. 76 ST.)

S420 BOTTOM

S420 BOTTOM

EDGE OF DECK

S420 BOTTOM

EDGE OF MEDIAN

S421 BOTTOM

S417 @ 6"

S416 @ 1'-6"

104'-6"

13'-0"

12'-0" MEDIAN

S420 BOTTOM

S420 BOTTOM

S420 BOTTOM

S416 @ 1'-6"

S417 @ 6"

S421 BOTTOM

S422 @ 9" TOP

S422 @ 9" TOP

S422 @ 9" TOP

FACE OF CURB

S422 @ 9" TOP

S423 @ 9" TOP

S509 TOP & BOT.

S508

LONGITUDINAL MEDIAN REINFORCEMENT S422, S423 - TOP; S420, S421 - BOTTOM

℄ NB STH 181

S413 @ 7" BOTTOM

S413 @ 7" BOTTOM

S413 @ 7" BOTTOM

S415 @ 6"

S414 @ 7" BOTTOM

16°47'28" TYP.

51'-3"

52'-3"

S413 @ 7" BOTTOM

S413 @ 7" BOTTOM

S404 @ 7" TOP

S403 @ 7" TOP

S601 @ 7" TOP

S602 @ 7" TOP

S403 @ 7" TOP

S406 @ 7" TOP

S602 @ 7" TOP

S508

LONGITUDINAL DECK REINFORCEMENT S601, S602, S403, S404, S406 - TOP; S413, S414 - BOTTOM

340-S508 @ 6" TOP, 340-S508 @ 6" BOTTOM TRANSVERSE DECK REINFORCEMENT

℄ LIGHT STANDARD

FACE OF PARAPET

S512

1'-3"

1'-3"

PARAPET REINFORCEMENT SEE SHEET 11

END OF S601, S602 BARS

END OF S601, S602 BARS

EDGE OF DECK

36'-5"

36'-2"

100'-0" SPAN 1

97'-6" SPAN 2

℄ BRG. S. ABUT.

℄ PIER

℄ BRG. N. ABUT.

NOTES

FOR SUPERSTRUCTURE TYPICAL SECTION AND DETAILS SEE SHEET 8.

FOR BILL OF BARS, BENDING DIAGRAMS AND DETAILS SEE SHEET 9.

FOR LIGHT STANDARD DETAILS SEE SHEET 17.

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
STRUCTURES DESIGN SECTION

STRUCTURE B-40-404

CONST. SPEC.	2006	DRAWN BY	MV	PLANS CK'D.	YB

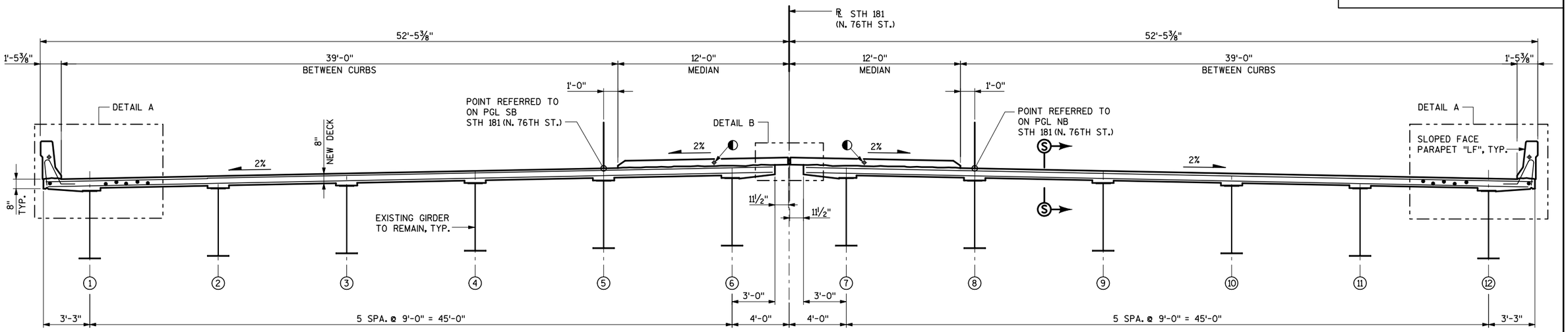
SUPERSTRUCTURE (1 OF 2)

SHEET 7 OF 21

854

8

STATE PROJECT NUMBER
2140-08-73



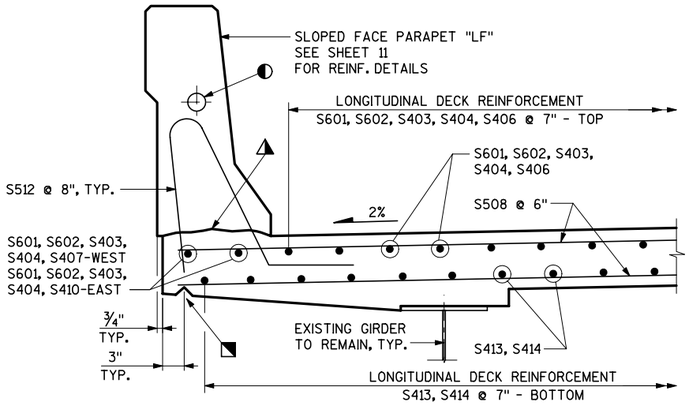
SOUTH BOUND

NORTH BOUND

TYPICAL SECTION

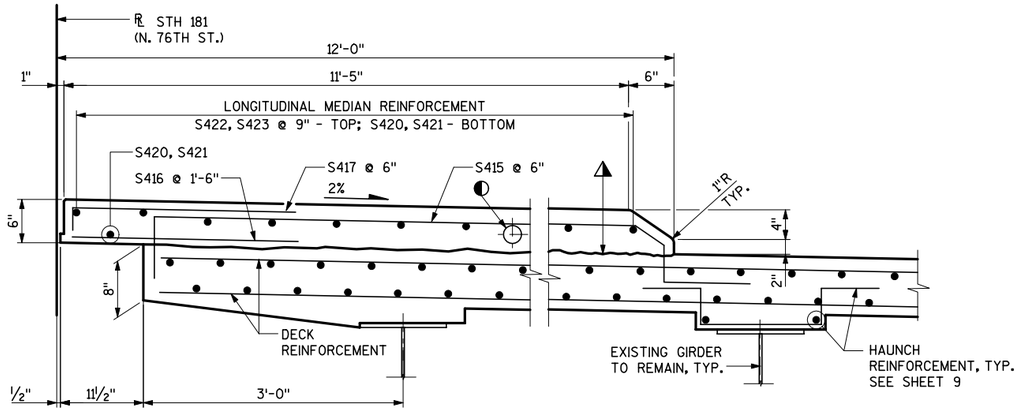
(LOOKING NORTH)

NOTE: ALL HORIZONTAL DIMENSIONS SHOWN ARE TAKEN NORMAL TO ℄ N. 76TH ST.



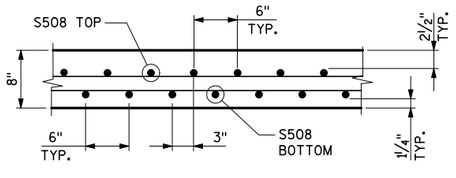
DETAIL A

WEST EDGE SHOWN
EAST EDGE SIMILAR

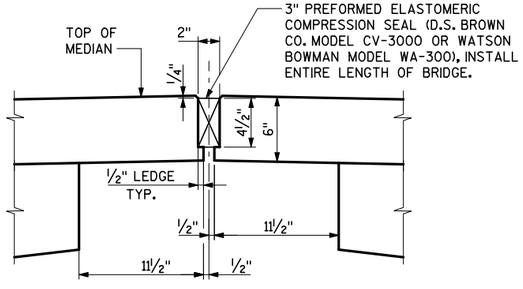


MEDIAN

EAST MEDIAN SHOWN
WEST MEDIAN SIMILAR



SECTION S-S



DETAIL B

LEGEND

- ¾" CONTINUOUS DRIP GROOVE, TERMINATE 2'-0" AWAY FROM FACE OF ABUTMENT.
- CONSTRUCTION JOINT. STRIKE OFF AS SHOWN AND LEAVE ROUGH.
- ϕ 2½" PVC CONDUIT, TYP.

NOTES

WORK THIS SHEET WITH SHEETS 7 & 9.

SEE SHEET 11 FOR PARAPET DETAILS.

SEE SHEET 16 FOR CONDUIT DETAILS.

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
STRUCTURES DESIGN SECTION

STRUCTURE B-40-404

CONST. SPEC.	2006	DRAWN BY	MV	PLANS CK'D.	YB

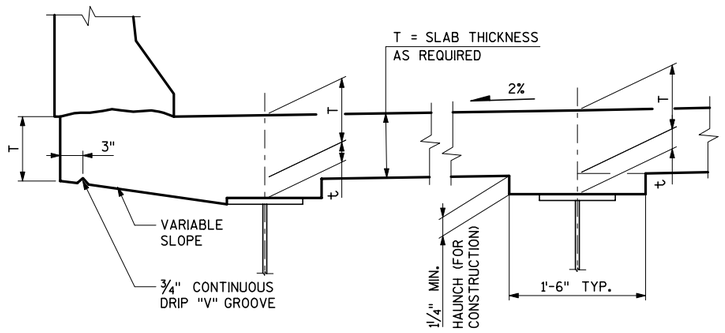
SUPERSTRUCTURE (2 OF 2)

SHEET 8 OF 21
855

8

STATE PROJECT NUMBER

2140-08-73



SECTION THRU SLAB

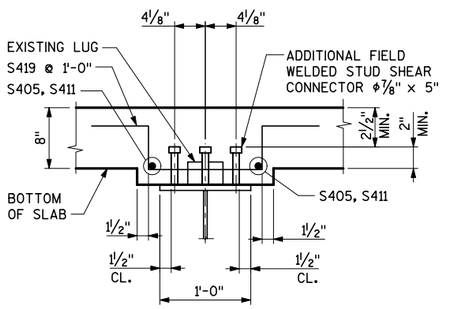
NOTES

t = HAUNCH HEIGHT AT CENTERLINE OF GIRDER.
TO DETERMINE "t" : AFTER ALL STRUCTURAL STEEL HAS BEEN ERECTED. ELEVATIONS OF THE TOP FLANGES, TOP OF SPLICE PLATES, OR TOP OF COVER PLATES, WHICHEVER APPLIES, SHALL BE TAKEN AT CENTERLINE OF BEARINGS, CENTERLINE OF FIELD SPLICES, AND AT 0.1 POINTS.

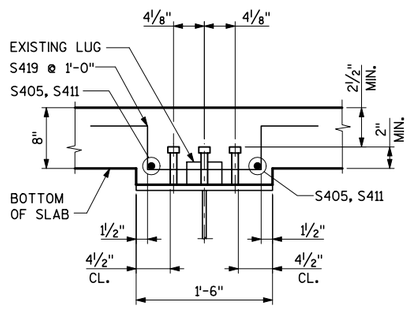
TOP OF DECK ELEV. AT FINAL GRADE.
\- TOP OF STEEL ELEV.
\+ CONC. ONLY DEFLECTION; DOWNWARD DEFLECTION IS ADDED, UPWARD DEFLECTION IS SUBTRACTED.

\- SLAB THICKNESS ('T')

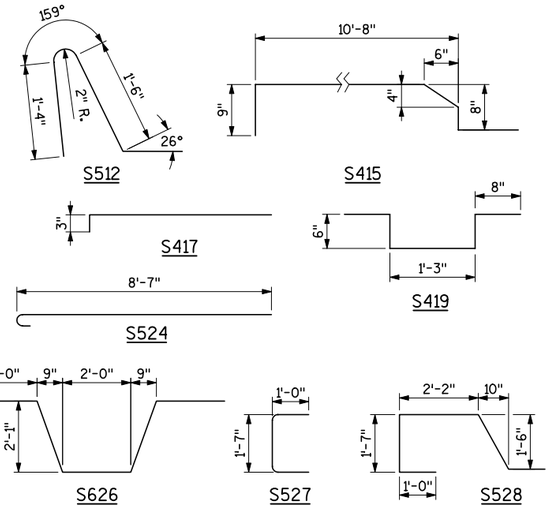
= "t" VALUE FOR SETTING HAUNCH.



SECTION A-A



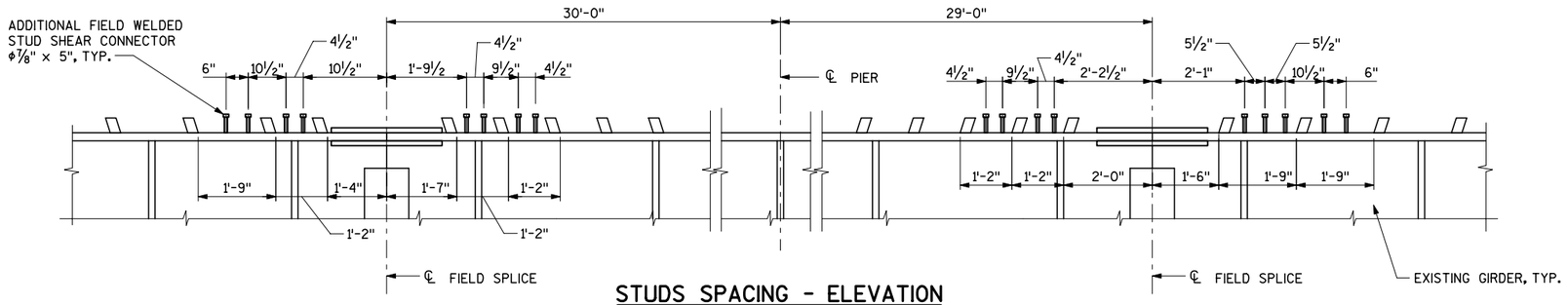
SECTION B-B



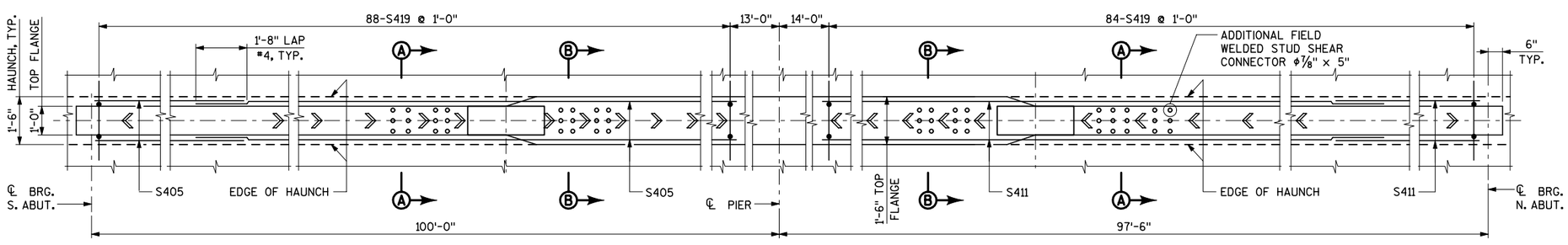
BENDING DIAGRAMS

BILL OF BARS

BAR MARK	COAT	NO. REQ'D	LENGTH	BENT	BAR SERIES	LOCATION
S601	X	176	60'-0"	-	-	DECK LONGITUD., TOP, OVER PIER
S602	X	176	15'-9"	-	-	DECK LONGITUD., TOP, OVER PIER
S403	X	352	45'-0"	-	-	DECK LONGITUD., TOP
S404	X	172	22'-7"	-	-	DECK LONGITUD., TOP, SPAN 1
S405	X	48	44'-3"	-	-	DECK HAUNCHES - LONGITUD., SPAN 1
S406	X	176	20'-8"	-	-	DECK LONGITUD., TOP, SPAN 2
S407	X	2	21'-1"	-	-	DECK LONGITUD., TOP, SPAN 2, NORTH-WEST CORNER
S508	X	1592	53'-2"	-	-	DECK TRANSV., TOP & BOTTOM
S509	X	4	51'-10"	-	-	DECK TRANSV., TOP & BOT., SPAN 1 - EAST, SPAN 2 - WEST
S410	X	2	23'-0"	-	-	DECK LONGITUD., TOP, SPAN 1, SOUTH-EAST CORNER
S411	X	48	42'-4"	-	-	DECK HAUNCHES -LONGITUD., SPAN 2
S512	X	596	4'-2"	X	-	DECK VERTICAL AT PARAPETS
S413	X	704	45'-0"	-	-	DECK LONGITUD., BOTTOM
S414	X	176	25'-6"	-	-	DECK LONGITUD., BOTTOM
S415	X	796	13'-2"	X	-	DECK VERTICAL AT MEDIAN
S416	X	266	2'-10"	-	-	MEDIAN TRANSV. BOTTOM
S417	X	796	3'-0"	X	-	MEDIAN TRANSV. TOP
S418	X	40	8'-0"	-	-	DECK TRANSV., EXPANSION JOINTS
S419	X	2064	3'-1"	X	-	DECK HAUNCHES - DOWELS
S420	X	8	45'-0"	-	-	MEDIAN LONGITUD., BOTTOM
S421	X	2	25'-6"	-	-	MEDIAN LONGITUD., BOTTOM, SPAN 2
S422	X	64	45'-0"	-	-	MEDIAN LONGITUD., TOP
S423	X	16	25'-6"	-	-	MEDIAN LONGITUD., TOP SPAN 2
S524	X	24	9'-2"	X	-	DECK TRANSV., TOP, AT LIGHT STANDARD
S525	X	24	8'-7"	-	-	DECK TRANSV., BOTTOM, AT LIGHT STANDARD
S626	X	4	10'-0"	X	-	DECK HORIZ., AT LIGHT STANDARD
S527	X	12	3'-5"	X	-	DECK VERT., AT LIGHT STANDARD
S528	X	12	7'-0"	X	-	DECK VERT., AT LIGHT STANDARD



STUDS SPACING - ELEVATION
(LOOKING WEST)



HAUNCH REINFORCEMENT - PLAN

NOTES

FOR SUPERSTRUCTURE PLAN AND SECTIONS SEE SHEETS 7, 8.

FOR PARAPET AND LIGHT STANDARD DETAILS SEE SHEETS 11 & 17.

MATERIAL FOR STUD SHEAR CONNECTORS SHOULD CONFORM TO ASTM A108, ASTM A109 AND ASTM 370.

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
STRUCTURES DESIGN SECTION

STRUCTURE B-40-404

CONST. SPEC.	2006	DRAWN BY	MV	PLANS CK'D.	YB

SUPERSTRUCTURE DETAILS

SHEET 9 OF 21
856

8

STATE PROJECT NUMBER
2140-08-73

TOP OF DECK ELEVATIONS

STH 181 SB

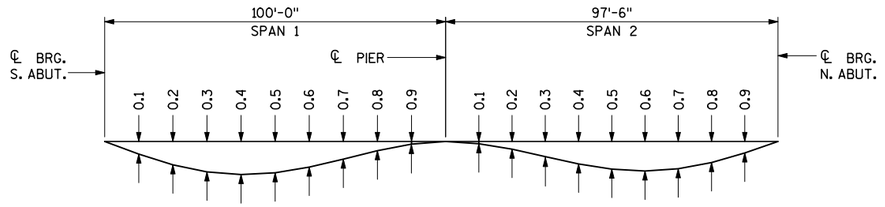
SPAN 1													
GIRDER	OFFSET (FT)	S. ABUT.	0.1	0.2	0.3	0.4	0.5	0.6	0.7	F. SPL. 1	0.8	0.9	PIER
W.EDGE	-39.25	711.39	711.32	711.24	711.17	711.09	711.02	710.94	710.87	710.87	710.79	710.72	710.64
G1	-36.00	711.45	711.38	711.30	711.23	711.15	711.08	711.00	710.93	710.93	710.85	710.78	710.70
G2	-27.00	711.61	711.54	711.46	711.39	711.31	711.24	711.16	711.09	711.09	711.01	710.94	710.86
G3	-18.00	711.77	711.70	711.62	711.55	711.47	711.40	711.32	711.25	711.25	711.17	711.10	711.02
G4	-9.00	711.93	711.86	711.78	711.71	711.63	711.56	711.48	711.41	711.41	711.33	711.26	711.18
G5, PGL	0.00	712.09	712.02	711.94	711.87	711.79	711.72	711.64	711.57	711.57	711.49	711.42	711.34
G6	9.00	712.25	712.17	712.10	712.02	711.95	711.87	711.80	711.72	711.72	711.65	711.57	711.50
E.EDGE	12.00	712.30	712.23	712.15	712.08	712.00	711.93	711.85	711.78	711.78	711.70	711.63	711.55
SPAN 2													
GIRDER	OFFSET (FT)	PIER	0.1	0.2	F. SPL. 2	0.3	0.4	0.5	0.6	0.7	0.8	0.9	N. ABUT.
W.EDGE	-39.25	710.64	710.57	710.50	710.42	710.42	710.35	710.28	710.21	710.13	710.06	709.99	709.91
G1	-36.00	710.70	710.63	710.56	710.48	710.48	710.41	710.34	710.26	710.19	710.12	710.04	709.97
G2	-27.00	710.86	710.79	710.71	710.64	710.64	710.57	710.50	710.42	710.35	710.28	710.20	710.13
G3	-18.00	711.02	710.95	710.87	710.80	710.80	710.73	710.66	710.58	710.51	710.44	710.36	710.29
G4	-9.00	711.18	711.11	711.03	710.96	710.96	710.89	710.81	710.74	710.67	710.60	710.52	710.45
G5, PGL	0.00	711.34	711.27	711.19	711.12	711.12	711.05	710.97	710.90	710.83	710.76	710.68	710.61
G6	9.00	711.50	711.43	711.35	711.28	711.28	711.21	711.13	711.06	710.99	710.91	710.84	710.77
E.EDGE	12.00	711.55	711.48	711.41	711.33	711.33	711.26	711.19	711.11	711.04	710.97	710.89	710.82

STH 181 NB

SPAN 1													
GIRDER	OFFSET (FT)	S. ABUT.	0.1	0.2	0.3	0.4	0.5	0.6	0.7	F. SPL. 1	0.8	0.9	PIER
W.EDGE	-12.00	712.29	712.21	712.14	712.06	711.99	711.91	711.84	711.76	711.76	711.69	711.61	711.54
G7	-9.00	712.22	712.15	712.07	712.00	711.92	711.85	711.77	711.70	711.70	711.62	711.55	711.47
G8, PGL	0.00	712.02	711.95	711.87	711.80	711.72	711.65	711.57	711.50	711.50	711.42	711.35	711.27
G9	9.00	711.82	711.74	711.67	711.59	711.52	711.44	711.37	711.29	711.29	711.22	711.14	711.07
G10	18.00	711.62	711.54	711.47	711.39	711.32	711.24	711.17	711.09	711.09	711.02	710.94	710.87
G11	27.00	711.42	711.34	711.27	711.19	711.12	711.04	710.97	710.89	710.89	710.82	710.74	710.67
G12	36.00	711.22	711.14	711.07	710.99	710.92	710.84	710.77	710.69	710.69	710.62	710.54	710.47
E.EDGE	39.25	711.15	711.07	711.00	710.92	710.85	710.77	710.70	710.62	710.62	710.55	710.47	710.40
SPAN 2													
GIRDER	OFFSET (FT)	PIER	0.1	0.2	F. SPL. 2	0.3	0.4	0.5	0.6	0.7	0.8	0.9	N. ABUT.
W.EDGE	-12.00	711.54	711.46	711.39	711.32	711.32	711.24	711.17	711.10	711.03	710.95	710.88	710.81
G7	-9.00	711.47	711.40	711.32	711.25	711.25	711.18	711.10	711.03	710.96	710.89	710.81	710.74
G8, PGL	0.00	711.27	711.20	711.12	711.05	711.05	710.98	710.90	710.83	710.76	710.69	710.61	710.54
G9	9.00	711.07	711.00	710.92	710.85	710.85	710.78	710.70	710.63	710.56	710.48	710.41	710.34
G10	18.00	710.87	710.80	710.72	710.65	710.65	710.58	710.50	710.43	710.36	710.28	710.21	710.14
G11	27.00	710.67	710.60	710.52	710.45	710.45	710.38	710.30	710.23	710.16	710.08	710.01	709.94
G12	36.00	710.47	710.40	710.32	710.25	710.25	710.18	710.10	710.03	709.96	709.88	709.81	709.74
E.EDGE	39.25	710.40	710.32	710.25	710.18	710.18	710.10	710.03	709.96	709.88	709.81	709.74	709.66

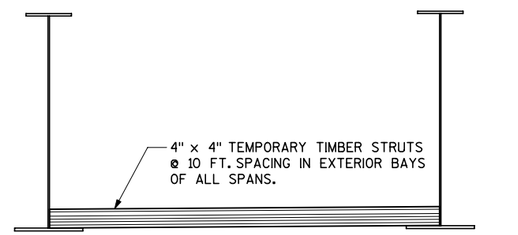
DEAD LOAD DEFLECTIONS

CONCRETE DEAD LOAD DEFLECTIONS (FEET)										
SPAN 1										
S. ABUT.	0.1	0.2	0.3	0.4	0.5	0.6	0.7	0.8	0.9	PIER
0.000	0.056	0.103	0.134	0.146	0.138	0.113	0.078	0.041	0.012	0.000
SPAN 2										
PIER	0.1	0.2	0.3	0.4	0.5	0.6	0.7	0.8	0.9	N. ABUT.
0.000	0.010	0.034	0.067	0.099	0.122	0.130	0.120	0.093	0.051	0.000



DEFLECTION DIAGRAM

SEE TABLE FOR DEAD LOAD DEFLECTION AT 0.1 POINTS



TEMPORARY BRACING DETAIL

LEGEND

F. SPL. 1. - FIELD SPLICE IN SPAN 1

F. SPL. 2. - FIELD SPLICE IN SPAN 2

NOTES

FOR SETTING HAUNCH HEIGHT THE SURVEY FOR TOP STEEL ELEVATION SHOULD BE MADE AFTER ALL GIRDERS ARE JACKED TO THE FINAL POSITION.

TOP OF STEEL ELEVATIONS ARE: TOP OF FLANGE OR TOP OF COVER PLATE AT FIELD SPLICE LOCATIONS.

FOR HAUNCH HEIGHT CALCULATION SEE SHEET 9.

8

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
STRUCTURES DESIGN SECTION

STRUCTURE B-40-404

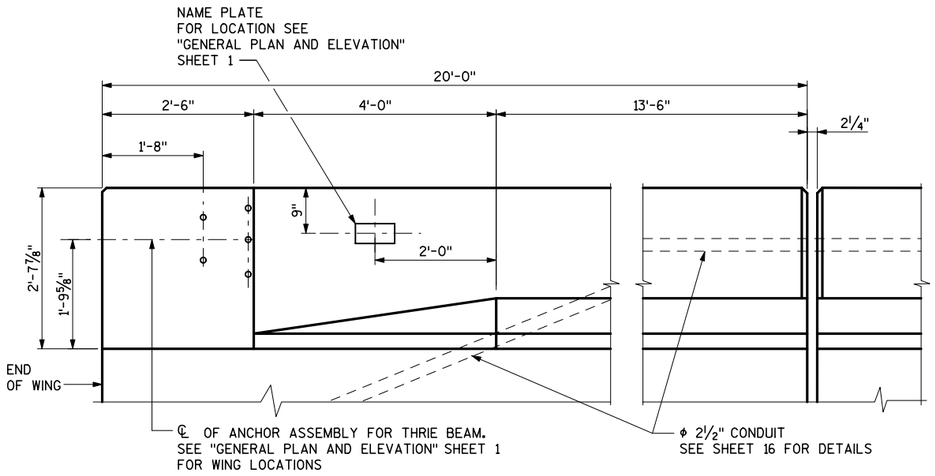
CONST. SPEC.	2006	DRAWN BY	MV	PLANS CK'D.	YB

DECK ELEVATIONS & SUPERSTRUCTURE DEFLECTIONS

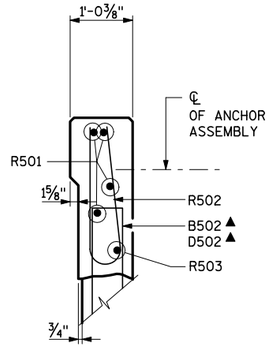
SHEET 10 OF 21
857

STATE PROJECT NUMBER

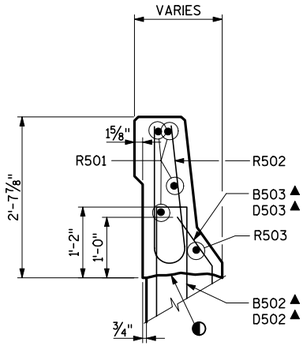
2140-08-73



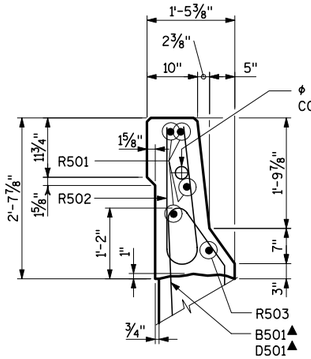
INSIDE ELEVATION



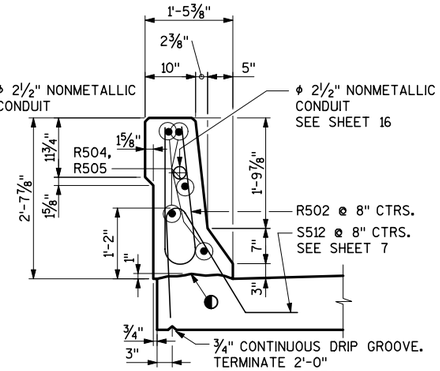
SECTION A-A



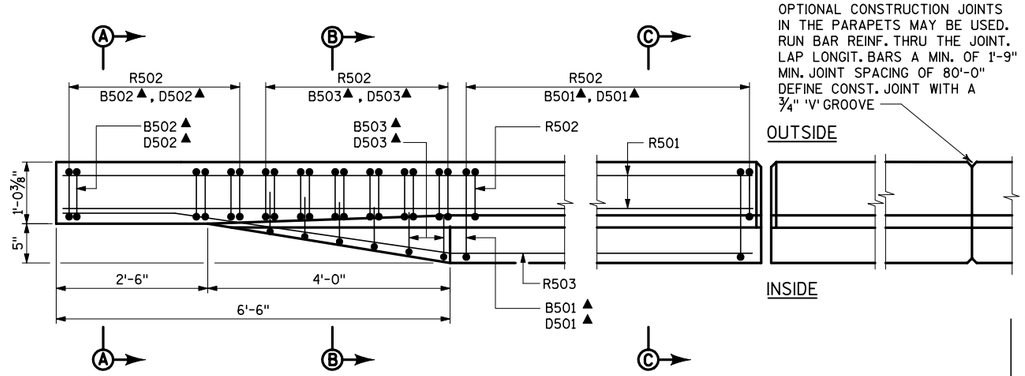
SECTION B-B



SECTION C-C



SECTION THRU PARAPET ON BRIDGE

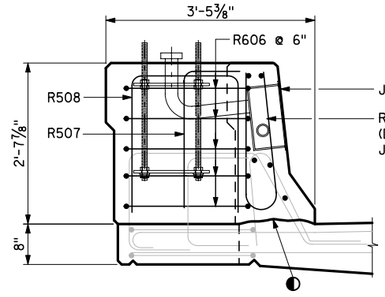


PLAN

OPTIONAL CONSTRUCTION JOINTS IN THE PARAPETS MAY BE USED. RUN BAR REINF. THRU THE JOINT. LAP LONGIT. BARS A MIN. OF 1'-9" MIN. JOINT SPACING OF 80'-0" DEFINE CONST. JOINT WITH A ¾" 'V' GROOVE

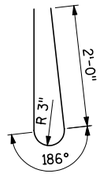
BILL OF BARS

BAR MARK	COAT	NO. REQ'D SUPERSTR.	NO. REQ'D S. ABUT.	NO. REQ'D N. ABUT.	LENGTH	BENT	LOCATION
R501	X	-	8	8	19'-8"	-	HORIZONTAL, WINGS
R502	X	596	68	68	4'-10"	X	VERTICAL
R503	X	-	2	2	19'-8"	X	HORIZONTAL, WINGS
R504	X	30	-	-	60'-0"	-	HORIZONTAL, BRIDGE
R505	X	10	-	-	24'-2"	-	HORIZONTAL, BRIDGE
R606	X	10	-	-	10'-0"	X	HORIZONTAL, LIGHT STANDARD
R507	X	4	-	-	3'-2"	X	VERTICAL, LIGHT STANDARD
R508	X	12	-	-	6'-0"	X	VERTICAL, LIGHT STANDARD

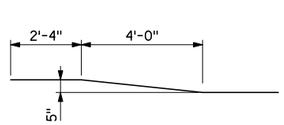


SECTION THRU PARAPET ON BRIDGE AT LIGHT STANDARD

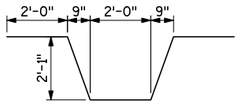
SEE SHEET 17 FOR MORE DETAILS



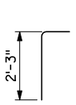
R502



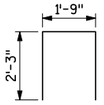
R503



R606

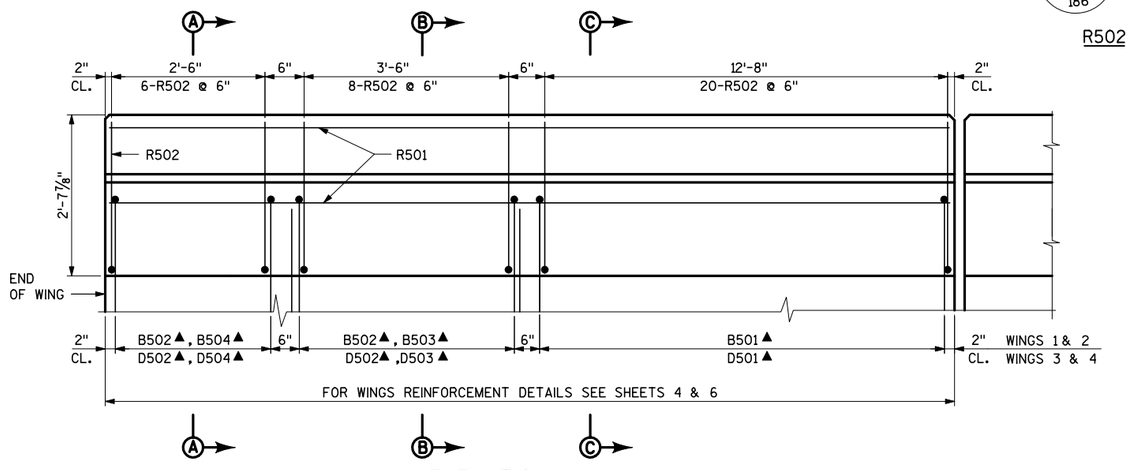


R507

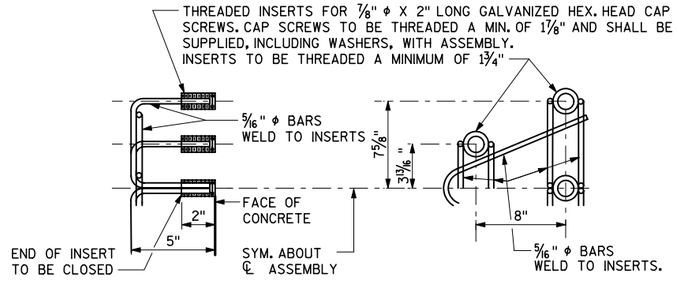


R508

BENDING DIAGRAMS



ELEVATION
(SHOWING REINFORCEMENT)



DETAIL OF ANCHOR ASSEMBLY

NOTE: HEX. HEAD CAP SCREWS & WASHERS TO BE GALVANIZED IN ACCORDANCE WITH AASHTO M232 CLASS C.

LEGEND

◐ CONSTR. JOINT - STRIKE OFF AS SHOWN

▲ - CONCRETE MASONRY ANCHORES, TYPE L NO. 5 BARS SEE SHEETS 4 & 6 FOR MORE DETAILS

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
STRUCTURES DESIGN SECTION

STRUCTURE B-40-404

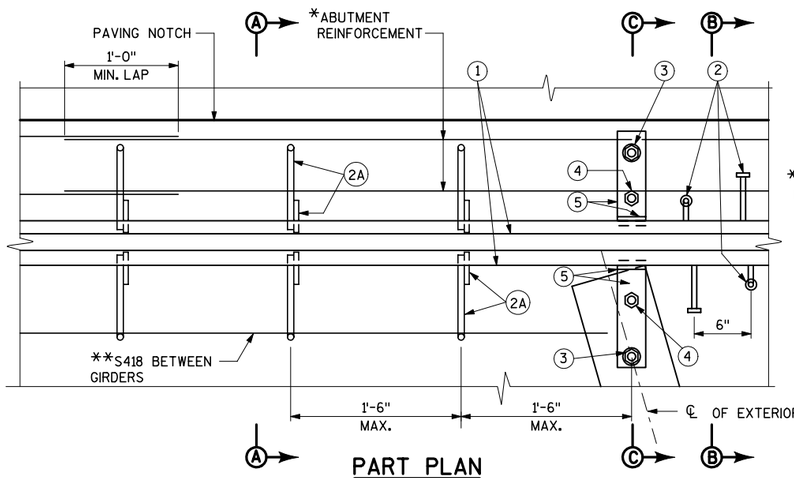
CONST. SPEC.	2006	DRAWN BY	TB	PLANS CK'D.	YB

PARAPET TYPE "LF"

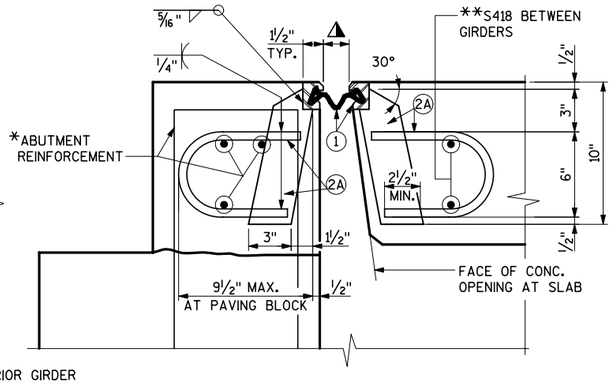
SHEET 11 OF 21

858

8

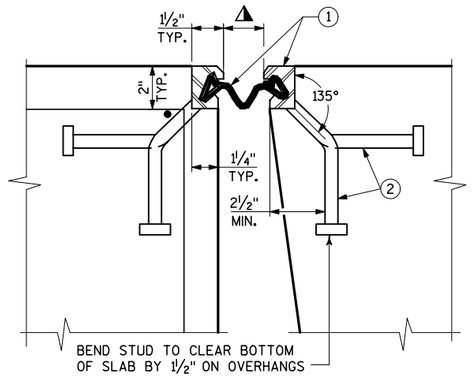


PART PLAN



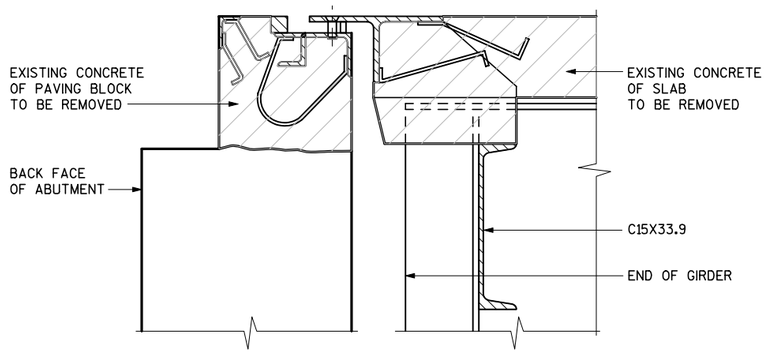
SECTION A-A

(BETWEEN EXTERIOR GIRDERS)

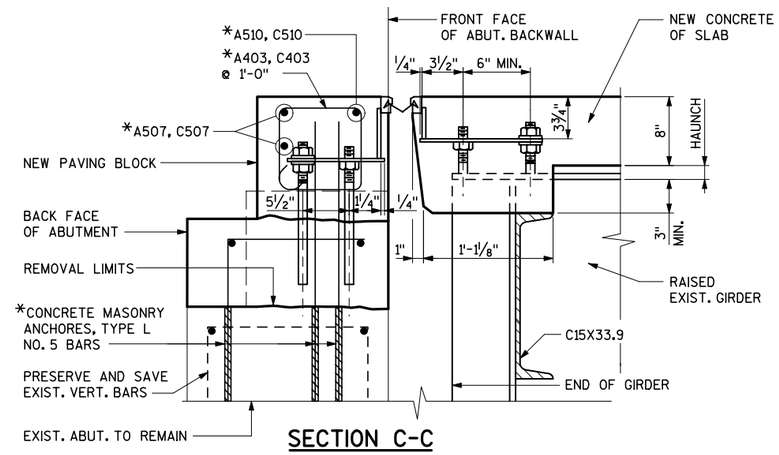


SECTION B-B

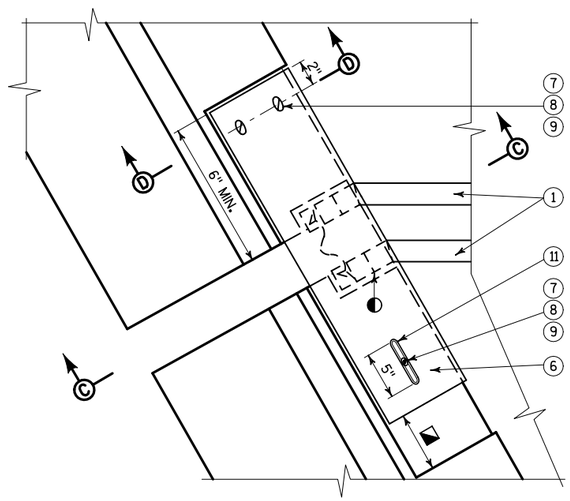
(BETWEEN EXTERIOR GIRDER AND EDGE OF SLAB)



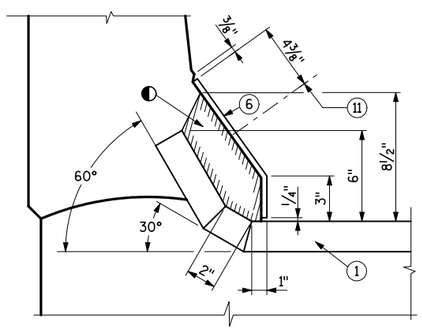
JOINT REPAIR-REMOVAL



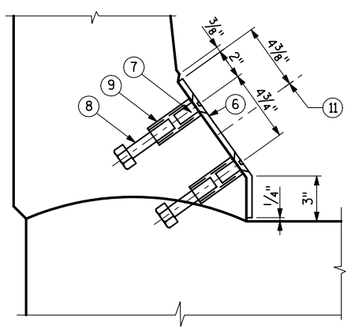
SECTION C-C



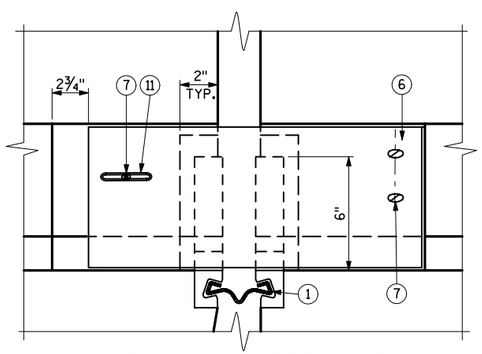
PLAN



SECTION C-C



SECTION D-D



VIEW OF PARAPET PLATES FROM ROADWAY

STRIP SEAL COVER PLATE DETAILS

GENERAL NOTES

ONE FIELD SPLICE PERMITTED IN STEEL EXTRUSIONS. IF USED, DETAILS SHALL BE SUBMITTED FOR APPROVAL. NO SPLICING PERMITTED IN NEOPRENE STRIP SEAL.

AFTER FABRICATION, BUT BEFORE SHIPMENT, STRAIGHTEN STEEL EXTRUSIONS SUCH THAT THEY SHALL BE FREE FROM WARP, TWIST & SWEEP.

FABRICATOR SHALL PROVIDE MEANS OF KEEPING GALVANIZED EXTRUSIONS CLEAN & SMOOTH DURING SHIPMENT AND PRIOR TO APPLYING LUBRICANT ADHESIVE FOR NEOPRENE GLAND INSTALLATION.

SANDBLAST PLATES & EXTRUSIONS AFTER FABRICATION IN ACCORDANCE WITH SSPC SP. #6 "COMERCIAL BLAST CLEANING". AFTER BLAST CLEANING THE PLATES & EXTRUSIONS SHALL BE HOT DIPPED GALVANIZED.

ANCHOR SYSTEM NO. 8 & NO. 9 SHALL CONFORM TO ASTM A307 AND SHALL BE GALVANIZED IN ACCORDANCE WITH ASTM A153 CLASS C & D.

STRIP SEAL EXPANSION JOINT ASSEMBLY, INCLUDING ANCHOR STUDS & HARDWARE WILL BE PAID FOR AT THE LUMP SUM PRICE BID FOR "EXPANSION DEVICE".

LEGEND

1. NEOPRENE STRIP SEAL 4-INCH, AND STEEL EXTRUSIONS.
2. STUDS ⅝" ϕ x 6⅜" LONG AT 6" ALTERNATE CENTERS. WELD TO EXTRUSIONS & BEND AS SHOWN AFTER WELDING.

2A. ½" THICK ANCHOR PLATE WITH ⅝"ϕ ROD (OR ALTERNATE STRIP SEAL ANCHOR). WELD ROD TO ANCHOR PLATE, WELD ANCHOR PLATE TO NO.1 AT 1'-6" CTRS. BETWEEN GIRDERS.

3. ¾" ϕ THREADED ROD WITH 2 NUTS AND WASHERS. FIELD SET ON ℄ OF GIRDER. ON ABUTMENT SIDE GROUT THREADED ROD INTO FIELD DRILLED HOLES IN ABUTMENT BACKWALL AS SHOWN.
4. ¾"ϕ THREADED ROD WITH NUT. TACK WELD NUT TO NO. 5.
5. FABRICATE SUPPORT FROM 3" X ½" BAR AS SHOWN OR EQUIVALENT, ONE PER GIRDER PER SIDE. FIELD OR SHOP WELD TO NO. 1. IF FIELD WELDED, COVER WELDED AREAS WITH EPOXY-COATING MATERIAL. PROVIDE 1½" ϕ HOLE FOR NO. 3 & 1" ϕ HOLE FOR NO. 4.
6. GALVANIZED PLATE ⅜" x 10½" x 2'-0" LONG WITH HOLES FOR NO. 7. BEND AS SHOWN.
7. ¾" ϕ x 1½" STAINLESS STEEL SOCKET FLAT HEAD SCREWS WITH ANTI-SEIZE LUBRICANT. RECESS 1/16" BELOW PLATE SURFACE.
8. ¾" ϕ x 4" GALV. HEX HEAD BOLT. BEND 45°.
9. ¾" ϕ x 2 ¼" GALV. THREADED COUPLING.
11. 1" x 5" SLOTTED CSK. HOLE FOR NO. 7. SLOT PARALLEL TO DIRECTION OF MOVEMENT.

◐ BLOCK OUT CONCRETE 2" EACH SIDE FOR JOINT OPENING

◭ SET JOINT OPENING AT 2¼"

◪ JOINT OPENING DIM ALONG SKEW PLUS ½"

* SEE SHEETS 3, 4, 5, 6 FOR ABUTMENTS DETAILS.
** SEE SHEETS 7, 8 FOR SUPERSTRUCTURE DETAILS.

STATE PROJECT NUMBER

2140-08-73

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
STRUCTURES DESIGN SECTION

STRUCTURE B-40-404

CONST. SPEC.	2006	DRAWN BY	TB	PLANS CK'D.	YB

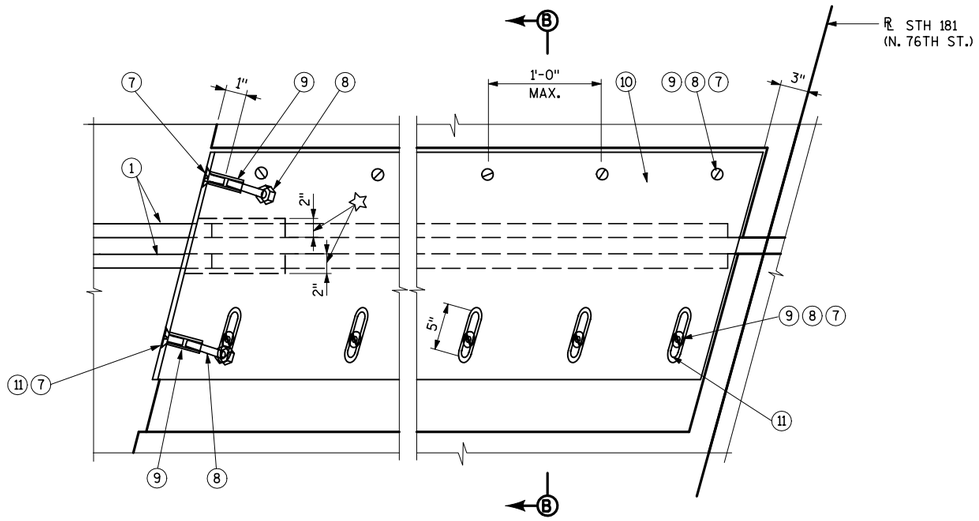
EXPANSION JOINT DETAILS (1 OF 2)

SHEET 12 OF 21

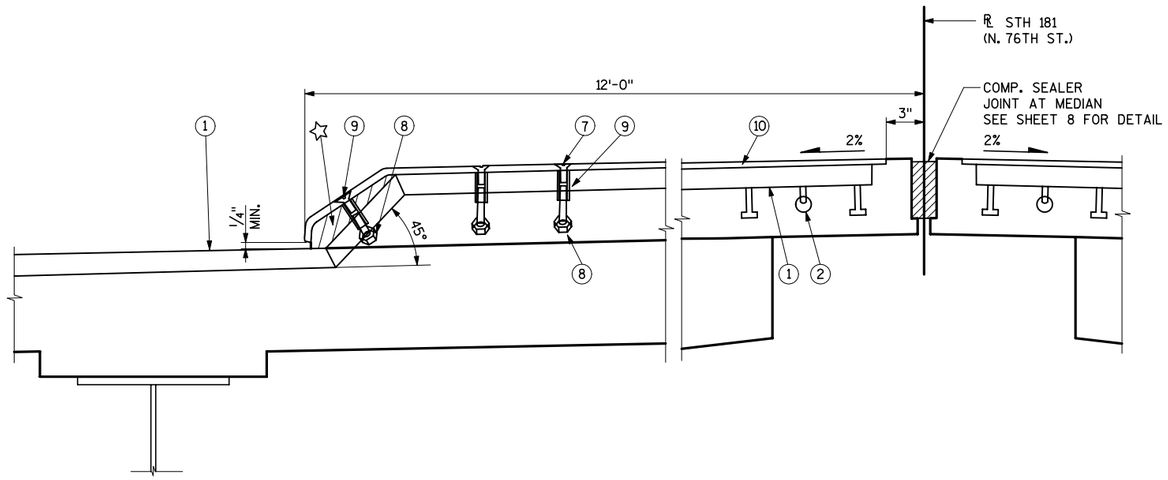
859

8

STATE PROJECT NUMBER
2140-08-73

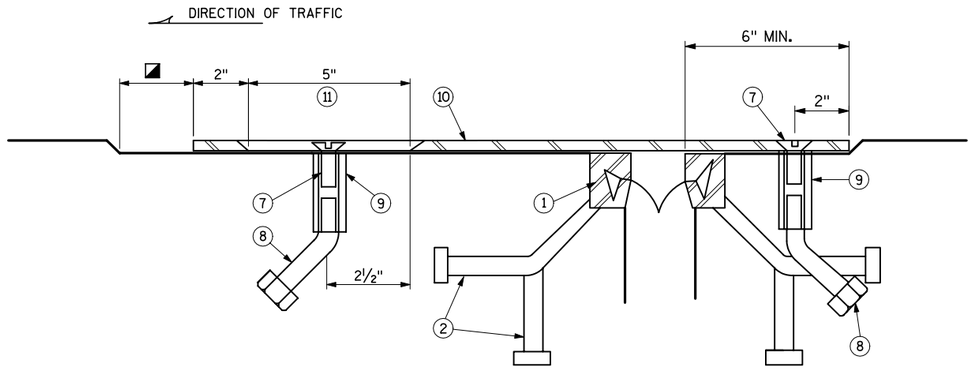


HALF-PLAN AT MEDIAN



SECTION AT MEDIAN

(LOOKING NORTH)
ALL DIMENSIONS SHOWN ARE TAKEN NORMAL
TO ℄ STH 181 (N. 76 TH ST.)



SECTION B-B

ALL DIMENSIONS SHOWN TAKEN ALONG SKEW

LEGEND

1. NEOPRENE STRIP SEAL 4-INCH, AND STEEL EXTRUSIONS.
2. STUDS ⅝" ϕ x 6⅜" LONG AT 6" ALTERNATE CENTERS. WELD TO EXTRUSIONS & BEND AS SHOWN AFTER WELDING.
7. ¾" ϕ x 1½" STAINLESS STEEL SOCKET FLAT HEAD SCREWS WITH ANTI-SEIZE LUBRICANT. RECESS 1/16" BELOW PLATE SURFACE.
8. ¾" ϕ x 4" GALV. HEX HEAD BOLT. BEND 45°.
9. ¾" ϕ x 2 ¼" GALV. THREADED COUPLING.
10. GALVANIZED MEDIAN PLATE ⅜" x 2'-0" WIDE x LIMITS SHOWN. BEND DOWN FACE OF MEDIAN WITH HOLES FOR NO. 7.
11. 1" x 5" SLOTTED CSK. HOLE FOR NO. 7. SLOT PARALLEL TO DIRECTION OF MOVEMENT.

☆ BLOCK OUT CONCRETE 2" EACH SIDE FOR JOINT OPENING.

◪ JOINT OPENING DIM ALONG SKEW PLUS ½"

NOTES

SEE SHEET 12 FOR GENERAL NOTES.

WORK THIS SHEET WITH SHEETS 3 THRU 8.

8

NO.	DATE	REVISION	BY

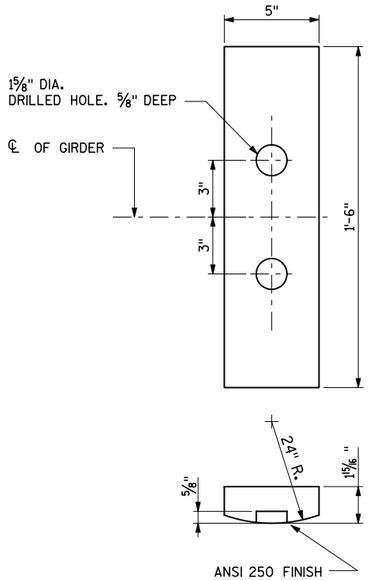
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
STRUCTURES DESIGN SECTION

STRUCTURE B-40-404

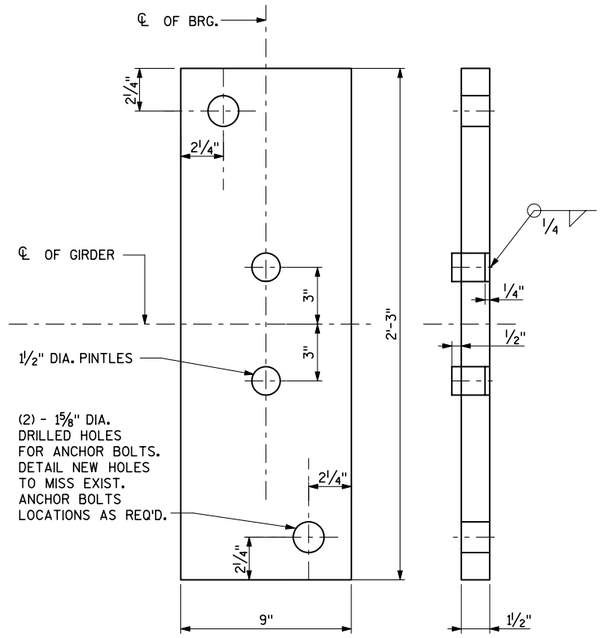
CONST. SPEC.	2006	DRAWN BY	MV	PLANS CK'D.	YB

EXPANSION JOINT DETAILS (2 OF 2)

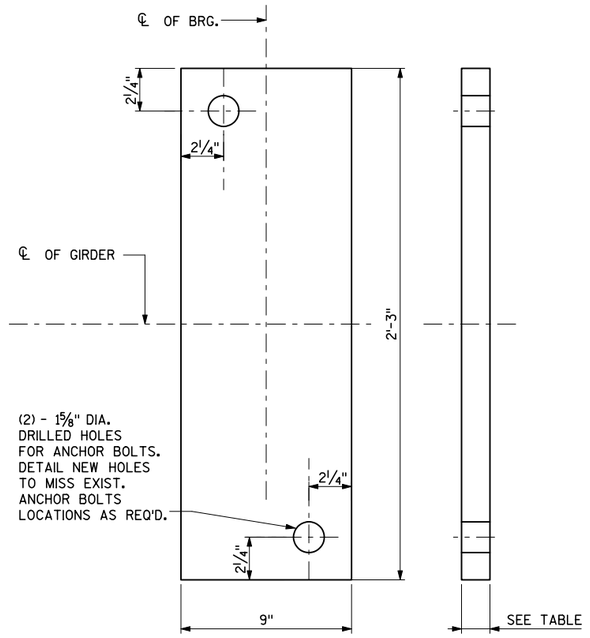
SHEET 13 OF 21
860



ROCKER PLATE "C"



MASONRY PLATE "D"



MASONRY PLATE "E"

NOTES

ALL BEARINGS ARE SYMMETRICAL ABOUT ℄ OF GIRDER AND ℄ OF BEARING.

ALL STRUCTURAL STEEL BEARING PLATES SHALL BE FLAT ROLLED STEEL PLATES WITH ALL SURFACES SMOOTH AND FREE FROM WARP AND ALL EDGES SMOOTH, STRAIGHT AND VERTICAL.

ALL PLATE CUTS SHALL BE MACHINE OR MACHINE FLAME CUTS.

ALL FINISHED SURFACES SHALL BE MACHINE FINISHED BY AN AUTOMATIC PROCESS.

ANCHOR BOLTS SHALL BE THREADED 3". PROVIDE ONE STANDARD WROUGHT WASHER AND ONE HEX NUT PER BOLT. PROJECT ANCHOR BOLTS "D" PLATE THICKNESS + 2¼".

ALL MATERIAL INCLUDING SHIMS, BUT EXCLUDING PINTLES, ANCHOR BOLTS, NUTS & WASHERS SHALL CONFORM TO ASTM A709 GRADE 50W.

STEEL PINTLES SHALL CONFORM TO ASTM A449 OR MATERIAL OF EQUIVALENT YIELD STRENGTH AND ELONGATION.

ALL MATERIALS USED FOR BEARINGS REHABILITATION, SHALL BE PAID FOR AT THE UNIT PRICE BID FOR "BEARING ASSEMBLIES FIXED B-40-404".

CHAMFER TOP OF PINTLES ⅛". DRILL HOLES FOR PINTLES IN ALL MASONRY PLATES FOR DRIVING FIT.

PROVIDE ⅛" THICK BEARING PAD SAME SIZE AS MASONRY PLATE "E" FOR EACH BEARING.

HEIGHT OF BEARINGS GIVEN IN TABLES INCLUDES ⅛" BEARING PADS.

CHAMFER ANCHOR BOLTS PRIOR TO THREADING.

DRILLED HOLES FOR ANCHOR BOLTS IN MASONRY PLATE "D" SHALL HAVE A DIAMETER ⅜" LARGER THAN ANCHOR BOLT.

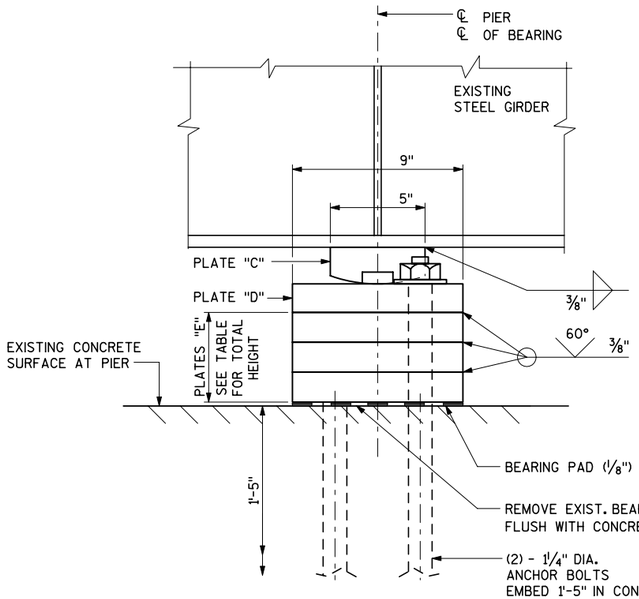
ALL ANCHOR BOLTS, NUTS AND WASHERS SHALL CONFORM TO ASTM A709 GRADE 36, OR MATERIAL OF EQUIVALENT YIELD STRENGTH AND ELONGATION.

ANCHOR BOLTS, NUTS AND WASHERS SHALL BE GALVANIZED AS REQUIRED BY ASTM DESIGNATION A153, CLASS "C".

PLATE "C" SHALL BE SHOP PAINTED WITH A WELDABLE PRIMER.

PLATE "D" SHALL BE GALVANIZED.

PLATE "E" SHALL BE GALVANIZED.

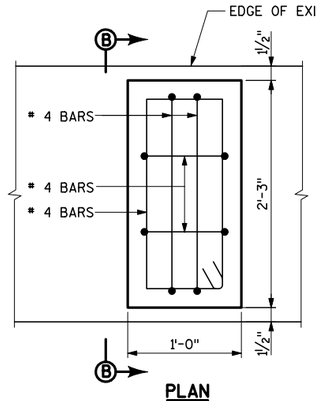


FIXED BEARING ASSEMBLY

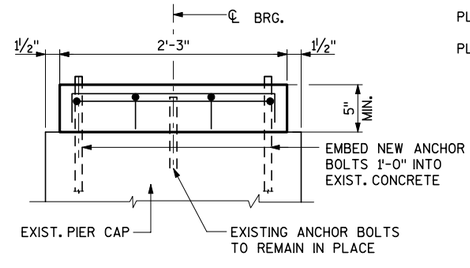
(SIDE ELEVATION)

PLATES "E"

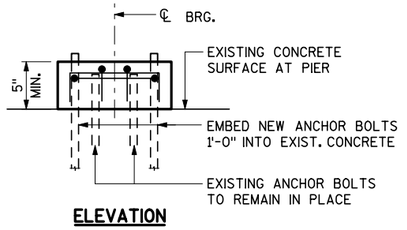
LOCATION	NO. OF PLATES REQ'D	PLATES THICKNESS, IN.	PLATES PACKAGE HEIGHT, IN.
GIRDER 1	3	2+2+1.32	5.32
GIRDER 2	3	2+2+1.32	5.32
GIRDER 3	3	2+2+1.32	5.32
GIRDER 4	3	2+2+1.32	5.32
GIRDER 5	3	2+2+1.32	5.32
GIRDER 6	3	2+2+1.32	5.32
GIRDER 7	3	2+2+1.2	5.20
GIRDER 8	3	2+2+1.2	5.20
GIRDER 9	3	2+2+1.2	5.20
GIRDER 10	3	2+2+1.2	5.20
GIRDER 11	3	2+2+1.2	5.20
GIRDER 12	3	2+1.24+1.24	4.48



PLAN



SECTION B-B



ELEVATION

CONCRETE BEARING BLOCK DETAILS

(ALTERNATE TO STEEL PLATES "E")

STATE PROJECT NUMBER

2140-08-73

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
STRUCTURES DESIGN SECTION

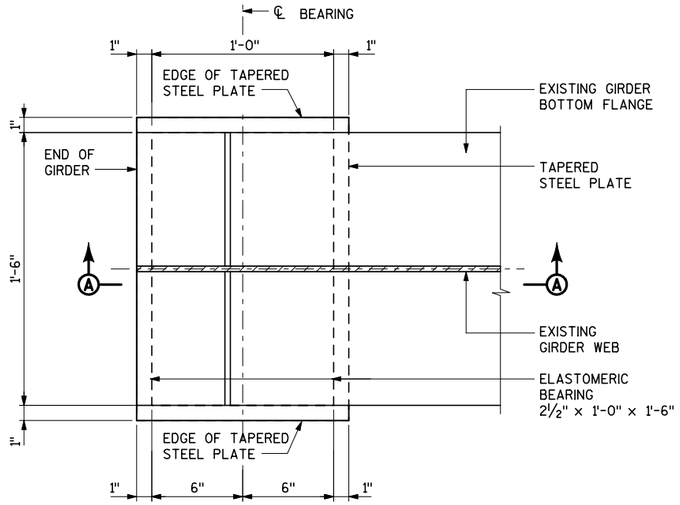
STRUCTURE B-40-404

CONST. SPEC.	2006	DRAWN BY	TB	PLANS CK'D.	YB

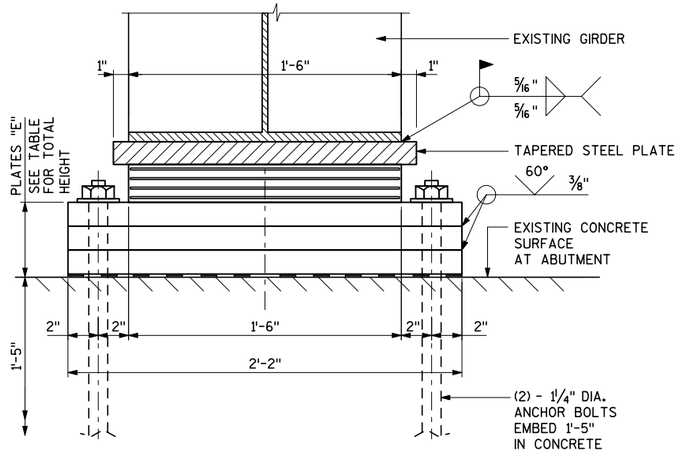
BEARING DETAILS AT PIER

SHEET 14 OF 21
861

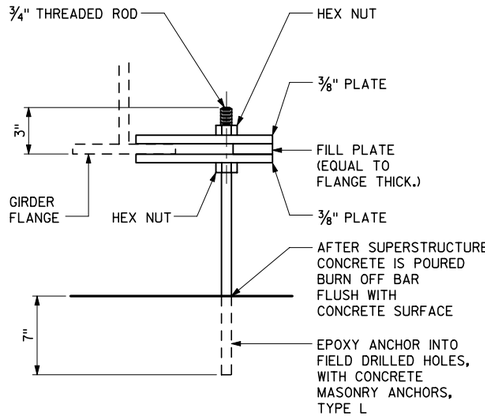
8



PLAN VIEW



END VIEW



TEMPORARY HOLD DOWN

PLACE ONE PER GIRDER AT ABUTMENT WHERE SLAB POUR TERMINATES.
(PLACE TO MISS BRG'S & NO CLOSER THAN 5" FROM EDGES OF ABUTMENT).
THESE HOLD DOWN ITEMS SHALL BE INCIDENTAL TO THE BID ITEM "CONCRETE MASONRY BRIDGES"

NOTES

ALL MATERIAL USED FOR EXPANSION BEARINGS REHABILITATION, INCLUDE TAPERED PLATES, PLATES "E" AND ANCHOR BOLTS, SHALL BE PAID FOR AT THE UNIT PRICE BID FOR "BEARING PADS ELASTOMERIC LAMINATED".

ON BEARING REPLACEMENTS, COMPRESSION LOAD AND ADHESION TESTS WILL BE WAIVED WHERE BEARINGS ARE DETAILED TO MEET HEIGHT REQUIREMENTS.

ALL STRUCTURAL STEEL PLATES SHALL BE FLAT ROLLED WITH ALL SURFACES SMOOTH AND FREE FROM WARP AND ALL EDGES SMOOTH, STRAIGHT, AND VERTICAL.

ALL PLATE CUTS SHALL BE MACHINE OR MACHINE FLAME CUTS.

ALL FINISHED SURFACES SHALL BE MACHINE FINISHED BY AN AUTOMATIC PROCESS.

ANCHOR BOLTS SHALL BE THREADED 3". PROVIDE ONE STANDARD WROUGHT WASHER AND ONE HEX NUT PER BOLT. PROJECT ANCHOR BOLTS PLATES "E" PACKAGE THICKNESS + 2¼".

ALL MATERIAL INCLUDING SHIMS, BUT EXCLUDING ANCHOR BOLTS, NUTS & WASHERS SHALL CONFORM TO ASTM A709 GRADE 50W.

PROVIDE ⅛" THICK BEARING PAD SAME SIZE AS MASONRY PLATE "E" FOR EACH BEARING.

HEIGHT OF BEARINGS GIVEN IN TABLES INCLUDES ⅛" BEARING PADS.

CHAMFER ANCHOR BOLTS PRIOR TO THREADING.

DRILLED HOLES FOR ANCHOR BOLTS IN MASONRY PLATE "E" SHALL HAVE A DIAMETER ⅜" LARGER THAN ANCHOR BOLT.

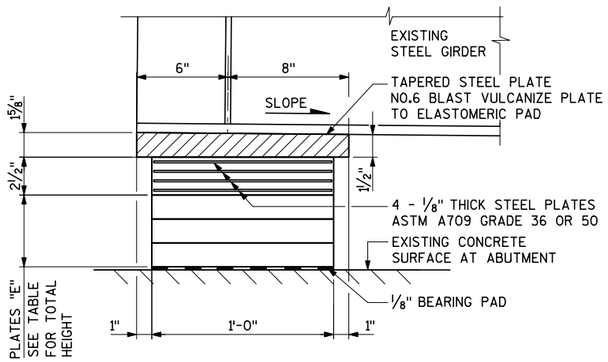
ALL ANCHOR BOLTS, NUTS AND WASHERS SHALL CONFORM TO ASTM A709 GRADE 36, OR MATERIAL OF EQUIVALENT YIELD STRENGTH AND ELONGATION.

ANCHOR BOLTS, NUTS AND WASHERS SHALL BE GALVANIZED AS REQUIRED BY ASTM DESIGNATION A153, CLASS "C".

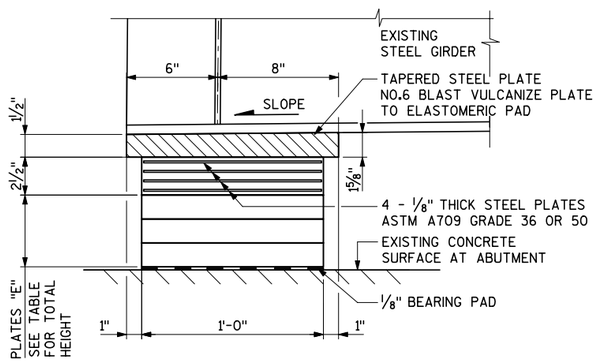
PLATE "E" SHALL BE GALVANIZED.

PLATES "E"

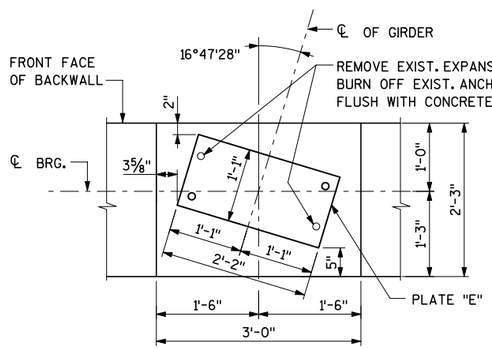
LOCATION	SOUTH ABUTMENT			NORTH ABUTMENT		
	NO. OF PLATES REQ'D	PLATES THICKNESS, IN.	PLATES PACKAGE HEIGHT, IN.	NO. OF PLATES REQ'D	PLATES THICKNESS, IN.	PLATES PACKAGE HEIGHT, IN.
GIRDER 1	3	2+2+1.29	5.29	3	2+2+1.29	5.29
GIRDER 2	3	2+2+1.29	5.29	3	2+2+1.29	5.29
GIRDER 3	3	2+2+1.29	5.29	3	2+2+1.29	5.29
GIRDER 4	3	2+2+1.29	5.29	3	2+2+1.29	5.29
GIRDER 5	3	2+2+1.29	5.29	3	2+2+1.29	5.29
GIRDER 6	2	1.6+1.29	2.89	3	2+2+1.17	5.17
GIRDER 7	2	1.29+1.24	2.53	3	2+2+1.17	5.17
GIRDER 8	3	2+2+0.93	4.93	3	2+2+1.17	5.17
GIRDER 9	3	2+2+1.17	5.17	3	2+2+1.17	5.17
GIRDER 10	3	2+2+0.93	4.93	3	2+2+1.17	5.17
GIRDER 11	3	2+2+1.17	5.17	3	2+2+1.17	5.17
GIRDER 12	3	2+2+1.17	5.17	3	2+2+1.17	5.17



SECTION A-A AT SOUTH ABUTMENT

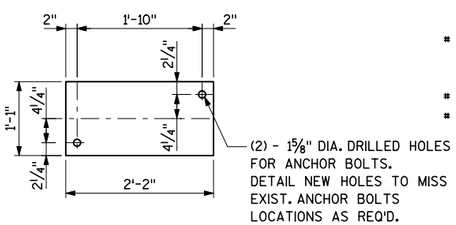


SECTION A-A AT NORTH ABUTMENT



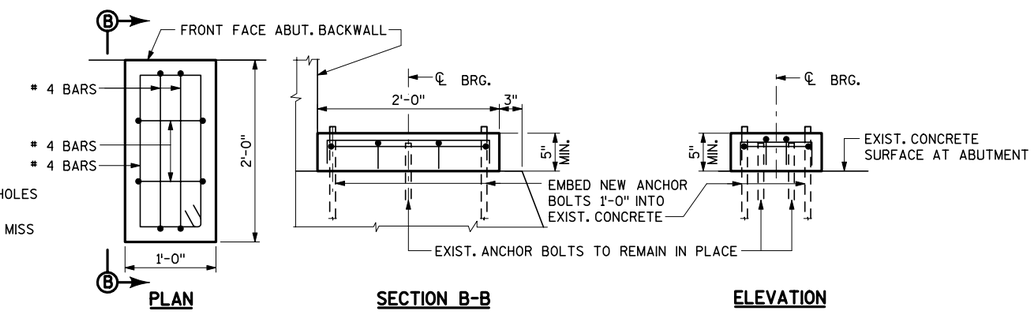
PARTIAL PLAN OF ABUTMENT

(SEE SHEETS 3 & 5)



PLAN VIEW

PLATE "E" DETAILS



PLAN

SECTION B-B

ELEVATION

CONCRETE BEARING BLOCK DETAILS

(ALTERNATE TO STEEL PLATES "E")

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
STRUCTURES DESIGN SECTION

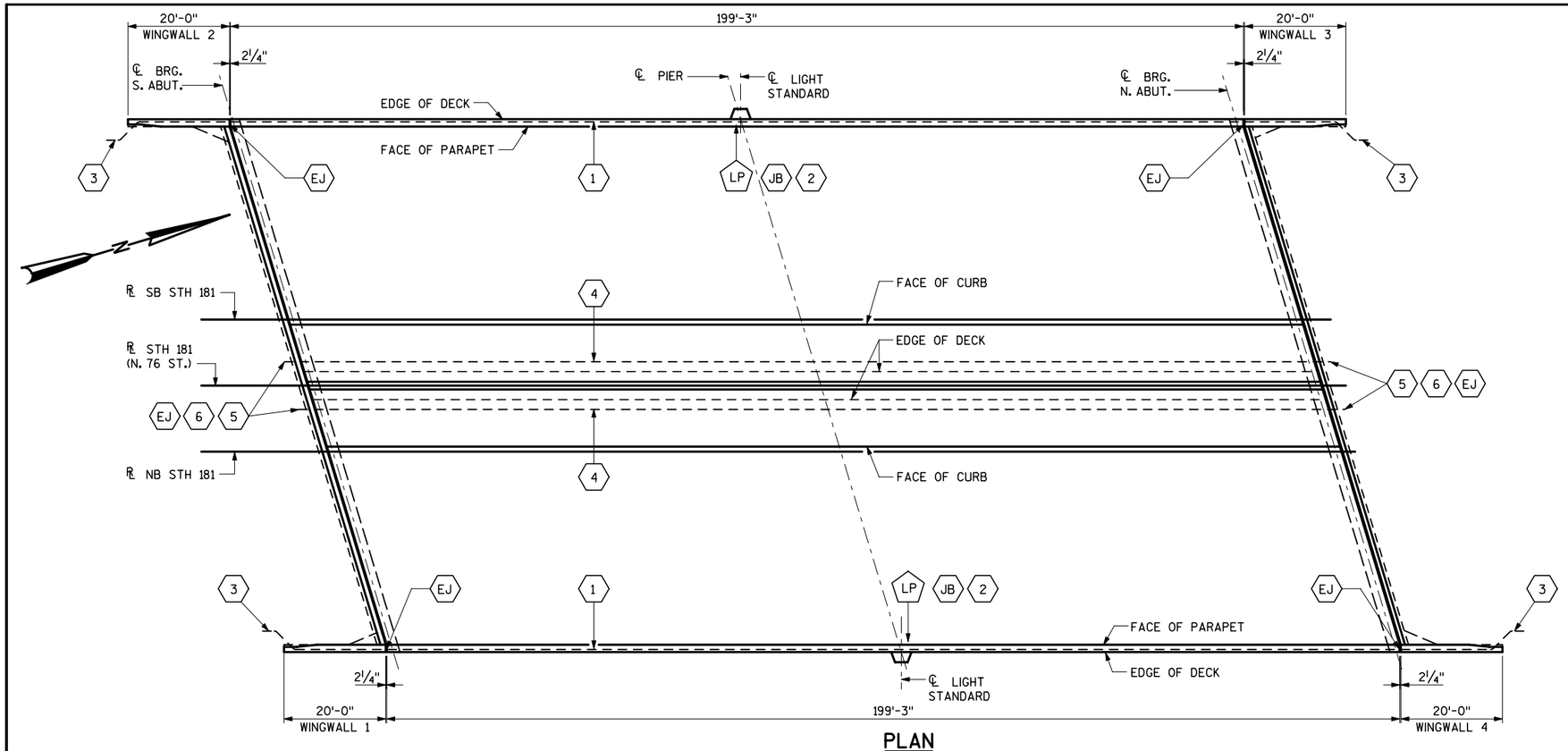
STRUCTURE B-40-404

CONST. SPEC.	2006	DRAWN BY	TB	PLANS CK'D.	YB

BEARING DETAILS AT ABUTMENTS

SHEET 15 OF 21
862

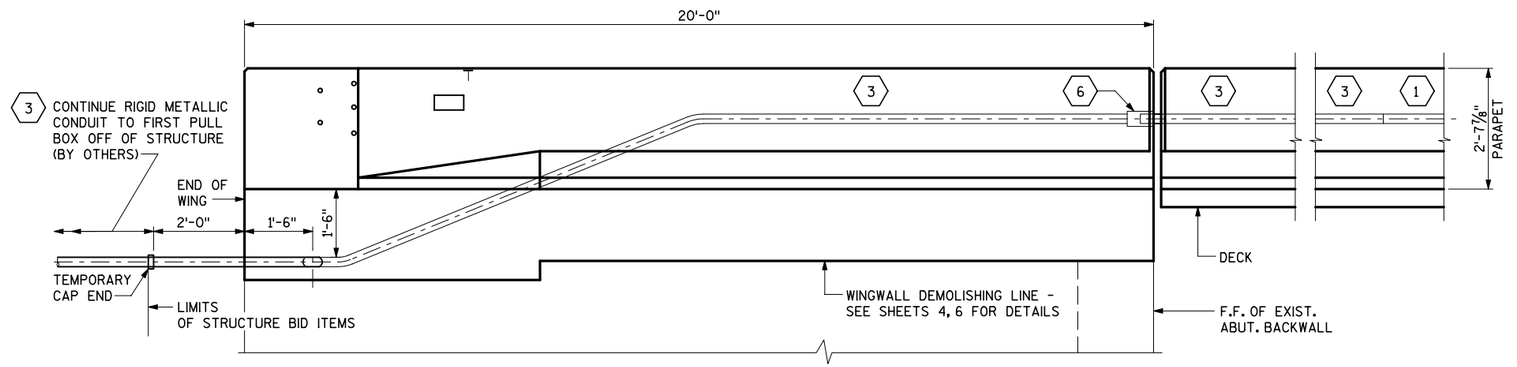
8



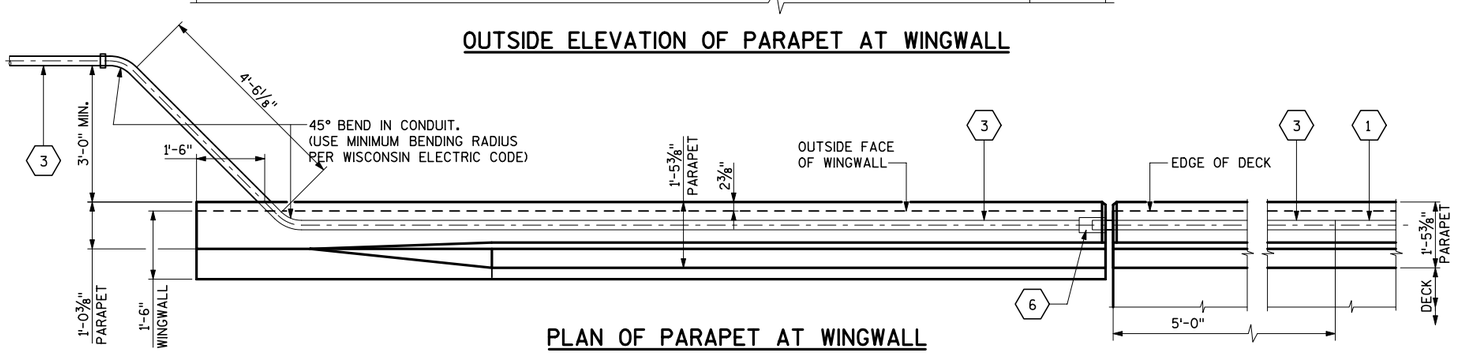
PLAN

LEGEND

- LP — LIGHT POLE MOUNTING LOCATION-INSTALLATION OF ANCHOR ASSEMBLY REQUIRED. SEE SHEET 17.
- JB — 18x12x6-INCH JUNCTION BOX. LOCATE ON TRAFFIC FACE OF PARAPET WITH BOTTOM EDGE OF BOX 1'-0" ABOVE BOTTOM OF PARAPET UNLESS OTHERWISE NOTED. RESPACE PARAPET REINFORCEMENT LOCALLY AS REQUIRED TO CLEAR. SEE SHEET 17 FOR DETAILS.
- EJ — EXPANSION JOINT LOCATION. USE RIGID METALLIC CONDUIT ON EITHER SIDE OF JOINT. METALLIC CONDUIT TO EXTEND 5'-0" INTO PARAPET ON DECK SIDE AND THRU PARAPET AND WINGWALL TO A MINIMUM OF 2'-0" BEYOND END OF WINGWALL.
- 1 — ONE - 2½" DIA. RIGID NONMETALLIC CONDUITS IN PARAPET
- 2 — ONE - 1½" DIA. RIGID NONMETALLIC CONDUIT FROM JUNCTION BOX TO LIGHT STANDARD.
- 3 — ONE - 2½" DIA RIGID METALLIC CONDUITS FROM EXPANSION JOINT TO END OF PARAPET AT WINGWALL. SEE CONDUIT DETAILS ON THIS SHEET FOR PARAPET AT WINGWALLS.
- 4 — ONE - 2½" DIA. RIGID NONMETALLIC CONDUIT LOCATE 4" (APPROX.) BELOW TOP OF MEDIAN.
- 5 — ONE - 2½" DIA. METALLIC CONDUIT FROM EXPANSION JOINT TO BACK FACE OF ABUTMENT. EXTEND CONDUIT TO ABOUT 2'-0" FROM BACK FACE OF ABUTMENT. USE A TEMPORARY CAP AT THE END.
- 6 — ONE - EXPANSION FITTING. SEE THIS SHEET FOR NOTES.



OUTSIDE ELEVATION OF PARAPET AT WINGWALL



PLAN OF PARAPET AT WINGWALL

NOTES

USE AN APPROVED EXPANSION FITTING AT EACH JOINT. POSITION MOVABLE END OF CONDUIT INSIDE EXPANSION FITTING, SUCH THAT IT WILL HAVE THE SAME ALLOWANCE FOR MOVEMENT (EXPANSION/CONTRACTION) AS THE EXPANSION DEVICE SET IN PLACE IN THE DECK BELOW IT.
TAKE CARE TO INSTALL EXPANSION FITTING AND CONDUIT EXACTLY PARALLEL TO BRIDGE MOVEMENT.

ALL EXPOSED CONDUIT ENDS SHALL BE SUPPLIED WITH TEMPORARY WEATHERPROOF CAPS TO PREVENT INGRESS OF MOISTURE PRIOR TO LIGHT POLE OR TRAFFIC SIGNAL INSTALLATION.

STATE PROJECT NUMBER
2140-08-73

8

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
STRUCTURES DESIGN SECTION

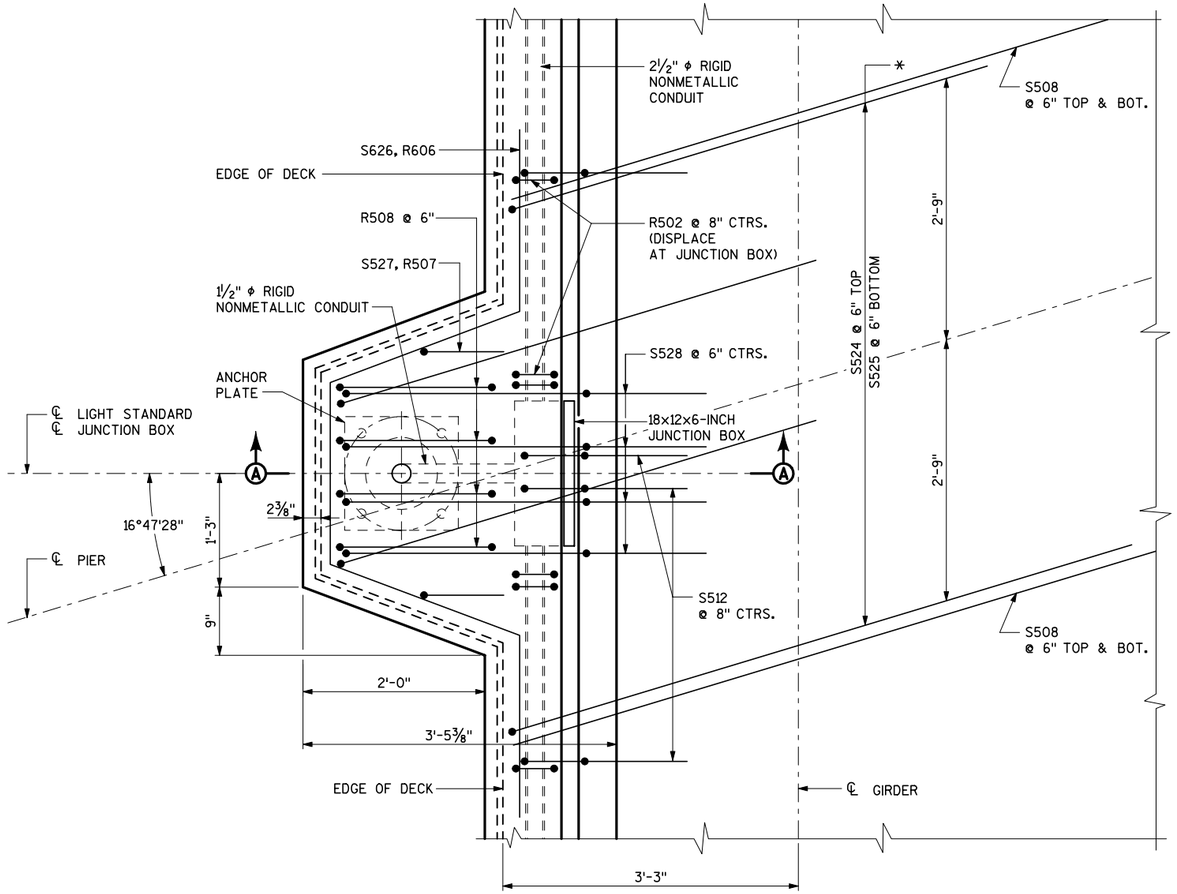
STRUCTURE B-40-404

CONST. SPEC.	2006	DRAWN BY	TB	PLANS CK'D.	YB

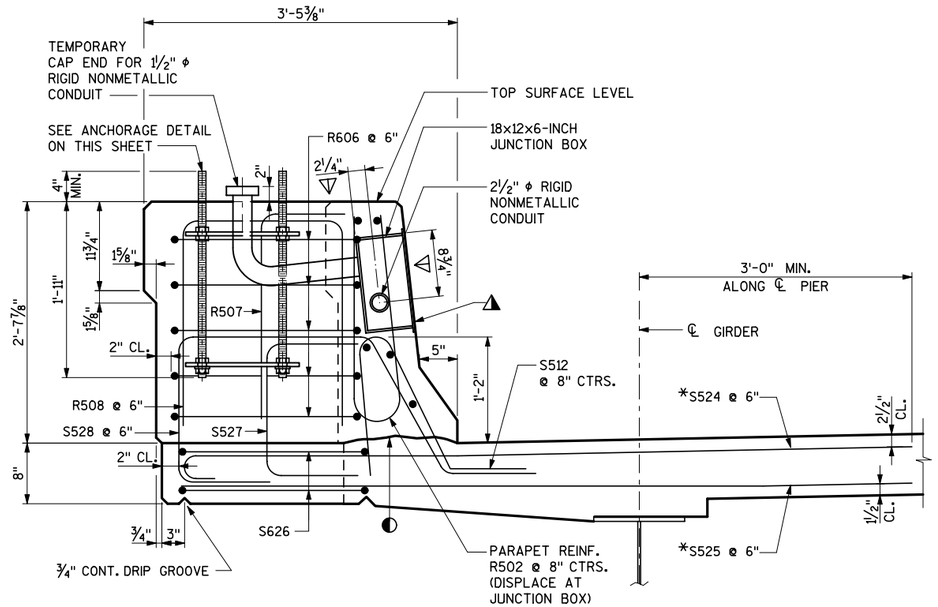
CONDUIT DETAILS

SHEET 16 OF 21
863

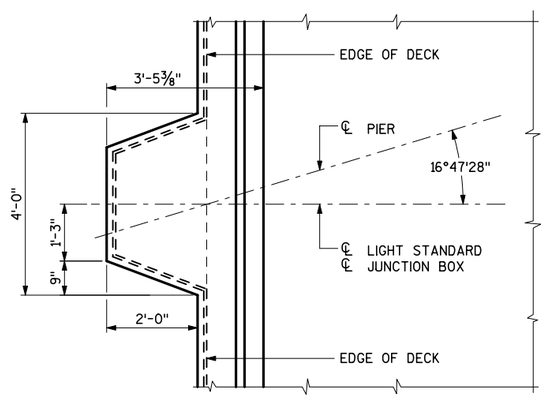
STATE PROJECT NUMBER
2140-08-73



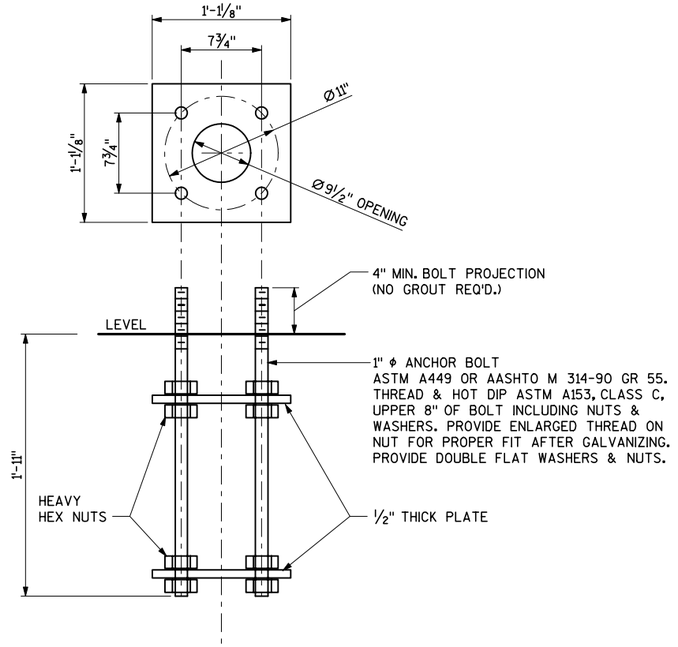
PLAN AT LIGHT STANDARD



SECTION A-A



LOCATION OF LIGHT STANDARD



LIGHT STANDARD ANCHORAGE DETAIL

JUNCTION BOX REQUIREMENTS

PLACE A 18x12x6-INCH JUNCTION BOX AT EACH LIGHT STANDARD (CENTERED ON LIGHT ℄).
USE A JUNCTION BOX TO KEEP A CONTINUOUS RUN OF CONDUIT (PULL LENGTH) TO A MAXIMUM OF 190 FT. CONTACT THE BUREAU OF HIGHWAY OPERATIONS, ELECTRICAL SECTION WHEN PULL LENGTH IS > 190' BUT < 200'.

LEGEND

◐ CONSTR. JOINT. STRIKE OF AS SHOWN

◭ CUT OUT ± 1" OF GASKET AT BOTTOM OF JUNCTION BOX COVER TO ALLOW FOR DRAINAGE.

▽ LOCATION OF CONDUIT IS MEASURED FROM OUTSIDE EDGE OF JUNCTION BOX.

* THESE BARS ARE IN ADDITION TO TRANSVERSE BARS IN DECK.

NOTES

FOR SUPERSTRUCTURE DETAILS SEE SHEETS 7, 8 & 9.

FOR PARAPET "LF" DETAILS SEE SHEET 11.

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
STRUCTURES DESIGN SECTION

STRUCTURE B-40-404

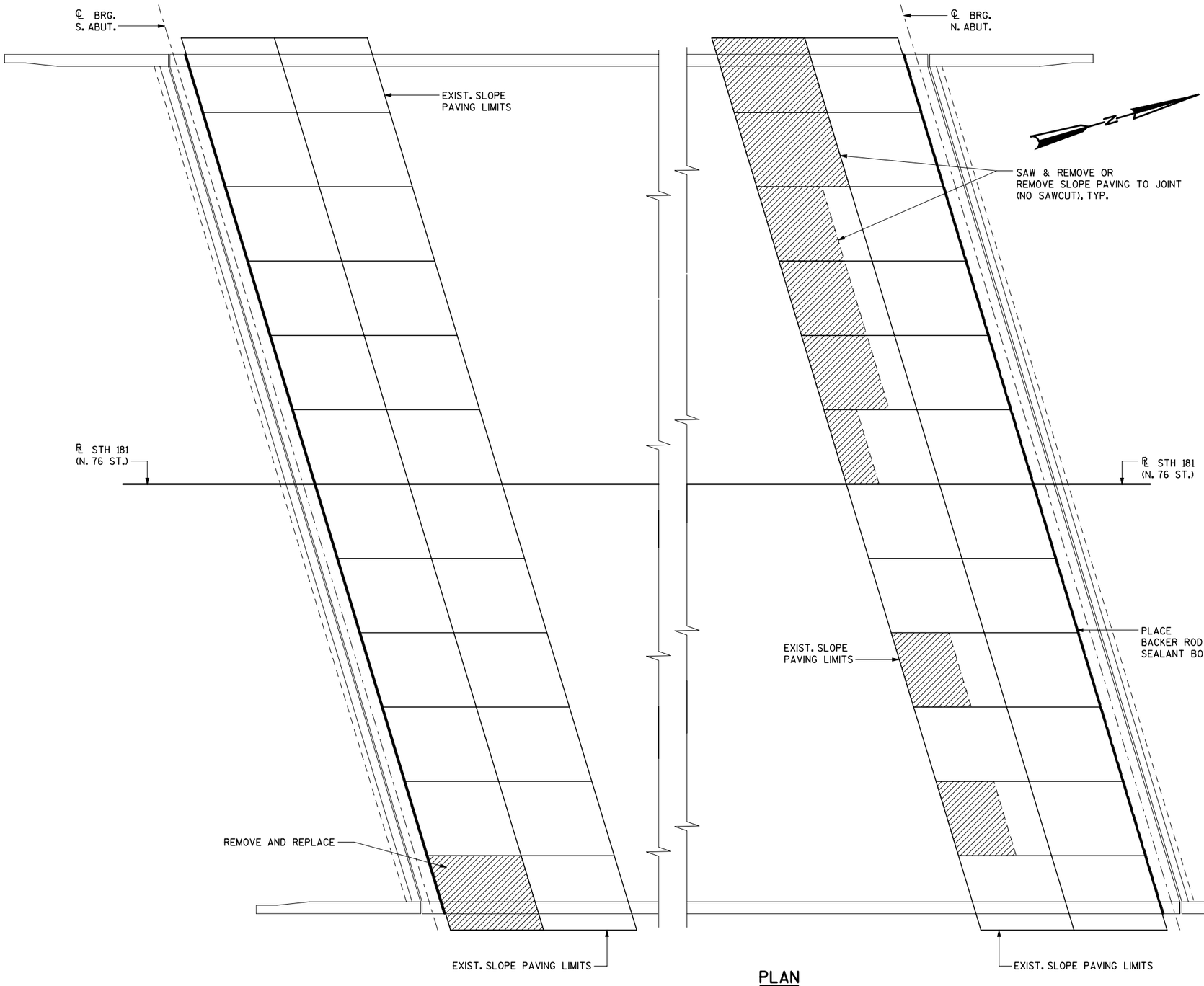
CONST. SPEC.	2006	DRAWN BY	TB	PLANS CK'D.	YB

LIGHTING DETAILS

SHEET 17 OF 21
864

8

STATE PROJECT NUMBER
2140-08-73



PLAN

LEGEND

FAILING SLOPE PAVING AREAS.
REMOVE AND REPLACE.

NOTE

LOCATIONS AND SIZES OF REPAIR AREAS SHOWN ARE APPROXIMATE AND FOR INFORMATION ONLY. EXACT QUANTITIES TO BE MEASURED/VERIFIED IN THE FIELD AND APPROVED BY THE ENGINEER.

8

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
STRUCTURES DESIGN SECTION

STRUCTURE B-40-404

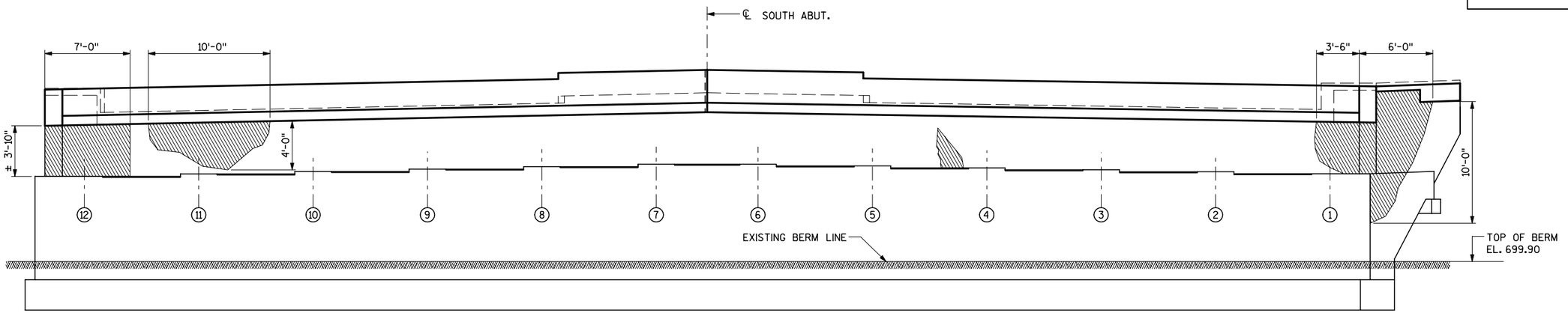
CONST. SPEC.	2006	DRAWN BY	TAL	PLANS CK'D.	YB

SLOPE PAVING REPAIRS

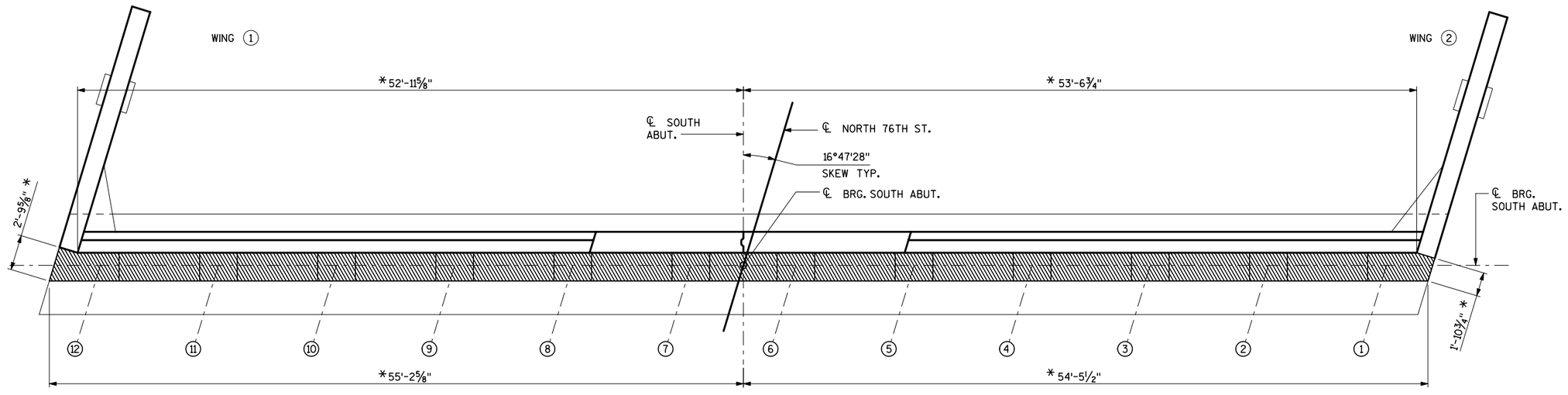
SHEET 18 OF 21
865

FILE NAME: 18BM1-1358_Slope_Pav_Rep.dgn PEN TABLE: v8_Structural_rev.tbl Date: 10:17:24 AM Plotted by: tlegear

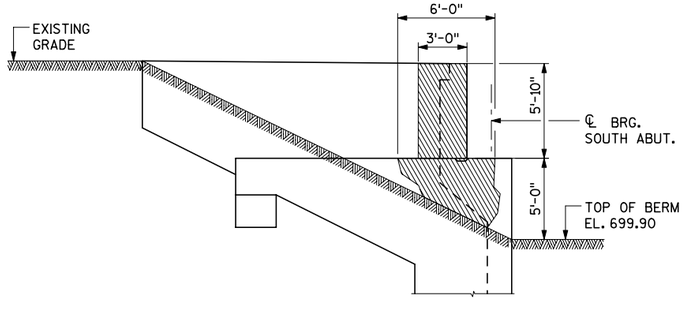
STATE PROJECT NUMBER
2140-08-73



ELEVATION
(LOOKING SOUTH)



PLAN



ELEVATION WING 1
(FRONT FACE)

LEGEND

- (X) GIRDER NUMBER
- SPALL - AREA OF CONCRETE SURFACE REPAIR
- SPALL WITH EXPOSED REBAR- AREA OF CONCRETE SURFACE REPAIR
- * - EXISTING DIMENSIONS TO BE VERIFIED IN FIELD

NOTES

ACTUAL LIMITS FOR CONCRETE SURFACE REPAIR OF BEARING SEATS AND BETWEEN BEARING SEATS SHALL BE VERIFIED BY FIELD ENGINEER.

LOCATIONS AND SIZES OF REPAIR AREAS SHOWN ARE APPROXIMATE AND FOR INFORMATION ONLY. EXACT QUANTITIES TO BE MEASURED/VERIFIED IN THE FIELD AND APPROVED BY THE ENGINEER.

8

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
STRUCTURES DESIGN SECTION

STRUCTURE B-40-404

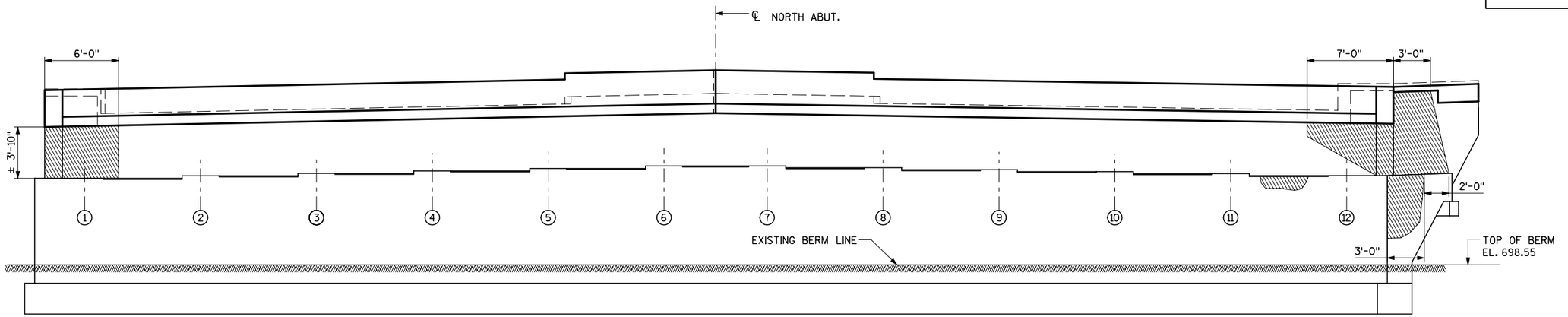
CONST. SPEC.	DRAWN BY	PLANS CK'D.
2006	TAL	YB

SOUTH ABUTMENT SURFACE REPAIR DETAILS

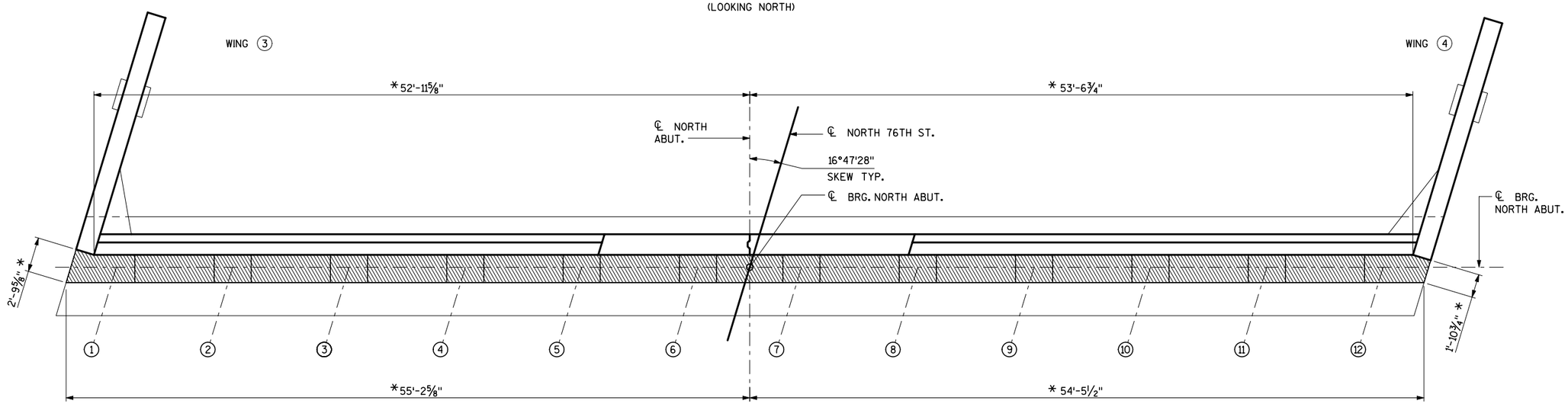
SHEET 19 OF 21
866

STATE PROJECT NUMBER

2140-08-73



ELEVATION
(LOOKING NORTH)



PLAN

NOTES

ACTUAL LIMITS FOR CONCRETE SURFACE REPAIR OF BEARING SEATS AND BETWEEN BEARING SEATS SHALL BE VERIFIED BY FIELD ENGINEER.

LOCATIONS AND SIZES OF REPAIR AREAS SHOWN ARE APPROXIMATE AND FOR INFORMATION ONLY. EXACT QUANTITIES TO BE MEASURED/VERIFIED IN THE FIELD AND APPROVED BY THE ENGINEER.

LEGEND

- (X) GIRDER NUMBER
- SPALL - AREA OF CONCRETE SURFACE REPAIR
- SPALL WITH EXPOSED REBAR-AREA OF CONCRETE SURFACE REPAIR
- * - EXISTING DIMENSIONS TO BE VERIFIED IN FIELD

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
STRUCTURES DESIGN SECTION

STRUCTURE B-40-404

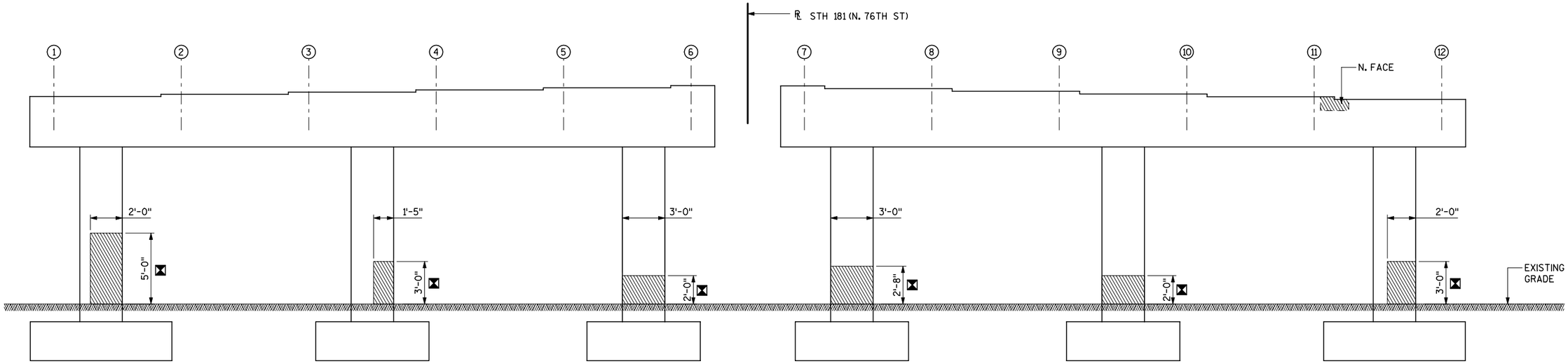
CONST. SPEC.	2006	DRAWN BY	TAL	PLANS CK'D.	YB

NORTH ABUTMENT SURFACE REPAIR DETAILS

SHEET 20 OF 21
867

8

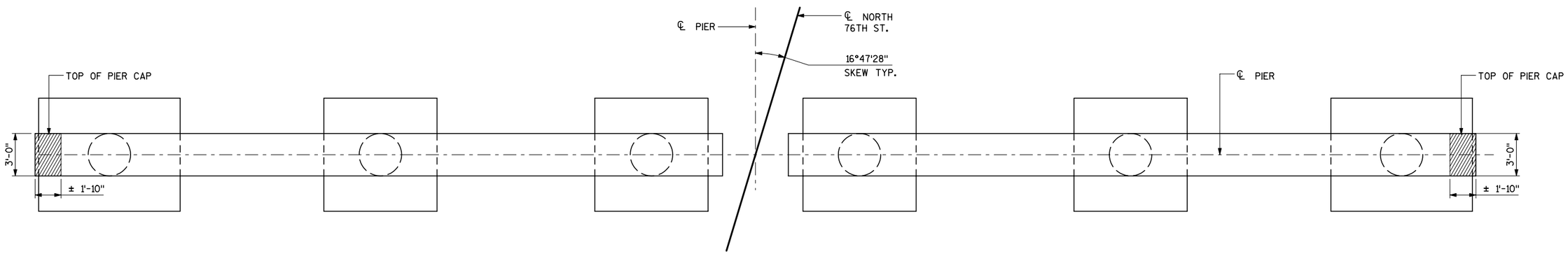
STATE PROJECT NUMBER
2140-08-73



SOUTH BOUND

NORTH BOUND

ELEVATION
(LOOKING NORTH)



PLAN

EXISTING BEARING SEAT ELEVATIONS *

SOUTH BOUND						
GIRDER #	1	2	3	4	5	6
	704.89	705.05	705.21	705.37	705.53	705.69

NORTH BOUND						
GIRDER #	7	8	9	10	11	12
	705.67	705.47	705.27	705.07	704.87	704.67

* BASED ON ORIGINAL PLANS. VERIFY IN FIELD.

LEGEND

- (X) GIRDER NUMBER
- SPALL - AREA OF CONCRETE SURFACE REPAIR
- SPALL WITH EXPOSED REBAR- AREA OF CONCRETE SURFACE REPAIR
- SOME EXCAVATION MAY BE REQ'D AT THESE LOCATIONS

NOTE

THE EXACT AMOUNT AND LOCATIONS OF SURFACE REPAIR SHALL BE VERIFIED BY FIELD ENGINEER.

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
STRUCTURES DESIGN SECTION

STRUCTURE B-40-404

CONST. SPEC.	2006	DRAWN BY	TAL	PLANS CK'D.	YB

PIER SURFACE REPAIR DETAILS

SHEET 21 OF 21
868

8

STATION	END AREA CUT SF	END AREA FILL SF	INCREMENTAL VOLUME CUT CY	INCREMENTAL VOLUME FILL CY	CUMULATIVE VOLUME CUT CY	CUMULATIVE VOLUME FILL CY	MASS HAUL CY
STAGE 1							
140+00	26.0	0.0					
140+50	25.0	0.0	47.2	0.0	47.2	0.0	47.2
141+00	23.5	0.0	44.9	0.0	92.1	0.0	92.1
141+50	23.0	0.0	43.1	0.0	135.2	0.0	135.2
142+00	25.0	0.0	44.4	0.0	179.6	0.0	179.6
142+50	23.0	0.0	44.4	0.0	224.1	0.0	224.1
143+00	23.0	0.0	42.6	0.0	266.7	0.0	266.7
143+50	18.5	0.0	38.4	0.0	305.1	0.0	305.1
144+00	0.0	0.0	17.1	0.0	322.2	0.0	322.2
144+21	0.0	0.0	0.0	0.0	322.2	0.0	322.2
144+50	0.0	0.0	0.0	0.0	322.2	0.0	322.2
145+00	0.0	0.0	0.0	0.0	322.2	0.0	322.2
145+50	0.0	0.0	0.0	0.0	322.2	0.0	322.2
145+90	0.0	0.0	0.0	0.0	322.2	0.0	322.2
146+00	13.0	0.0	2.4	0.0	324.6	0.0	324.6
146+50	22.5	0.0	32.9	0.0	357.5	0.0	357.5
147+00	30.5	0.0	49.1	0.0	406.6	0.0	406.6
147+11	28.5	0.0	12.0	0.0	418.6	0.0	418.6
147+50	27.0	0.0	40.1	0.0	458.7	0.0	458.7
148+00	18.5	0.0	42.1	0.0	500.8	0.0	500.8
148+50	24.0	0.0	39.4	0.0	540.2	0.0	540.2
149+00	24.5	0.0	44.9	0.0	585.1	0.0	585.1
149+50	25.5	0.0	46.3	0.0	631.4	0.0	631.4
150+00	27.5	0.0	49.1	0.0	680.4	0.0	680.4
150+50	28.0	0.0	51.4	0.0	731.8	0.0	731.8
151+00	28.0	0.0	51.9	0.0	783.7	0.0	783.7
151+50	38.5	0.0	61.6	0.0	845.3	0.0	845.3
152+00	51.0	0.0	82.9	0.0	928.1	0.0	928.1
152+50	53.5	0.0	96.8	0.0	1024.9	0.0	1024.9
152+88	0.0	0.0	37.6	0.0	1062.5	0.0	1062.5
153+00	0.0	0.0	0.0	0.0	1062.5	0.0	1062.5
153+09	0.0	0.0	0.0	0.0	1062.5	0.0	1062.5
153+50	19.5	0.0	14.8	0.0	1077.3	0.0	1077.3
154+00	32.0	0.0	47.7	0.0	1125.0	0.0	1125.0
154+50	0.0	0.0	29.6	0.0	1154.6	0.0	1154.6
155+00	39.0	0.0	36.1	0.0	1190.8	0.0	1190.8
155+50	23.5	0.0	57.9	0.0	1248.6	0.0	1248.6
155+89	27.5	0.0	36.8	0.0	1285.5	0.0	1285.5
156+00	27.5	0.0	11.2	0.0	1296.7	0.0	1296.7
156+50	25.0	0.0	48.6	0.0	1345.3	0.0	1345.3
157+00	22.5	0.0	44.0	0.0	1389.3	0.0	1389.3
157+50	22.0	0.0	41.2	0.0	1430.5	0.0	1430.5
157+61	24.0	0.0	9.4	0.0	1439.8	0.0	1439.8
158+00	24.5	0.0	35.0	0.0	1474.9	0.0	1474.9
158+50	23.5	0.0	44.4	0.0	1519.3	0.0	1519.3
158+64	22.5	0.0	11.9	0.0	1531.2	0.0	1531.2
159+00	23.5	0.0	30.7	0.0	1561.9	0.0	1561.9
159+50	23.5	0.0	43.5	0.0	1605.4	0.0	1605.4
160+00	25.5	0.0	45.4	0.0	1650.8	0.0	1650.8
160+50	0.0	0.0	23.6	0.0	1674.4	0.0	1674.4
160+69	0.0	0.0	0.0	0.0	1674.4	0.0	1674.4
161+00	0.0	0.0	0.0	0.0	1674.4	0.0	1674.4
161+50	0.0	0.0	0.0	0.0	1674.4	0.0	1674.4
162+00	8.0	0.0	7.4	0.0	1681.8	0.0	1681.8
162+13	11.0	0.0	4.6	0.0	1686.4	0.0	1686.4
162+50	12.0	0.0	15.8	0.0	1702.1	0.0	1702.1
163+00	20.0	0.0	29.6	0.0	1731.8	0.0	1731.8
163+50	20.0	0.0	37.0	0.0	1768.8	0.0	1768.8
164+00	23.0	0.0	39.8	0.0	1808.6	0.0	1808.6
164+50	25.0	0.0	44.4	0.0	1853.1	0.0	1853.1
164+60	24.5	0.0	9.2	0.0	1862.2	0.0	1862.2
165+00	25.0	0.0	36.7	0.0	1898.9	0.0	1898.9
165+50	24.0	0.0	45.4	0.0	1944.3	0.0	1944.3
166+00	28.0	0.0	48.1	0.0	1992.4	0.0	1992.4
166+24	31.0	0.0	26.2	0.0	2018.6	0.0	2018.6
166+50	28.5	0.0	28.6	0.0	2047.3	0.0	2047.3
167+00	27.5	0.0	51.9	0.0	2099.1	0.0	2099.1
167+50	0.0	0.0	25.5	0.0	2124.6	0.0	2124.6
167+74	0.0	0.0	0.0	0.0	2124.6	0.0	2124.6
168+00	0.0	0.0	0.0	0.0	2124.6	0.0	2124.6
168+50	0.0	0.0	0.0	0.0	2124.6	0.0	2124.6
STAGE 1 (CONT.)							
169+00	0.0	0.0	0.0	0.0	2124.6	0.0	2124.6
169+50	12.5	0.0	11.6	0.0	2136.2	0.0	2136.2
170+00	16.5	0.0	26.9	0.0	2163.0	0.0	2163.0
170+35	24.0	0.0	26.3	0.0	2189.3	0.0	2189.3
170+50	24.0	0.0	13.3	0.0	2202.6	0.0	2202.6
171+00	24.5	0.0	44.9	0.0	2247.5	0.0	2247.5
171+50	24.0	0.0	44.9	0.0	2292.4	0.0	2292.4
172+00	23.5	0.0	44.0	0.0	2336.4	0.0	2336.4
172+50	29.5	0.0	49.1	0.0	2385.5	0.0	2385.5
173+00	29.0	0.0	54.2	0.0	2439.6	0.0	2439.6
173+50	26.5	0.0	51.4	0.0	2491.0	0.0	2491.0
174+00	0.0	0.0	24.5	0.0	2515.6	0.0	2515.6
174+12	0.0	0.0	0.0	0.0	2515.6	0.0	2515.6
174+50	0.0	0.0	0.0	0.0	2515.6	0.0	2515.6
175+00	0.0	0.0	0.0	0.0	2515.6	0.0	2515.6
175+50	0.0	0.0	0.0	0.0	2515.6	0.0	2515.6
175+77	0.0	0.0	0.0	0.0	2515.6	0.0	2515.6
176+00	7.5	0.0	3.2	0.0	2518.8	0.0	2518.8
176+50	17.5	0.0	23.1	0.0	2541.9	0.0	2541.9
176+67	22.0	0.0	12.4	0.0	2554.4	0.0	2554.4
177+00	37.0	0.0	36.1	0.0	2590.4	0.0	2590.4
177+27	44.5	0.0	40.8	0.0	2631.2	0.0	2631.2
177+36	47.0	0.0	15.3	0.0	2646.4	0.0	2646.4
177+50	50.5	0.0	25.3	0.0	2671.7	0.0	2671.7
178+00	53.5	0.0	96.3	0.0	2768.0	0.0	2768.0
178+39	55.5	0.0	78.7	0.0	2846.7	0.0	2846.7
178+50	54.5	0.0	22.4	0.0	2869.1	0.0	2869.1
179+00	0.0	0.0	50.5	0.0	2919.6	0.0	2919.6
179+50	0.0	0.0	0.0	0.0	2919.6	0.0	2919.6
180+00	32.5	0.0	30.1	0.0	2949.7	0.0	2949.7
180+27	45.0	0.0	38.8	0.0	2988.4	0.0	2988.4
180+37	46.0	0.0	16.9	0.0	3005.3	0.0	3005.3
180+50	47.5	0.0	22.5	0.0	3027.8	0.0	3027.8
181+00	48.5	0.0	88.9	0.0	3116.7	0.0	3116.7
181+22	38.0	0.0	35.2	0.0	3151.9	0.0	3151.9
181+42	0.0	0.0	14.1	0.0	3166.0	0.0	3166.0
181+50	0.0	0.0	0.0	0.0	3166.0	0.0	3166.0
181+66	0.0	0.0	0.0	0.0	3166.0	0.0	3166.0
182+00	31.0	0.0	19.5	0.0	3185.5	0.0	3185.5
182+50	28.0	0.0	54.6	0.0	3240.1	0.0	3240.1
182+77	24.5	0.0	26.3	0.0	3266.4	0.0	3266.4
183+00	23.5	0.0	20.4	0.0	3286.8	0.0	3286.8
183+50	26.5	0.0	46.3	0.0	3333.1	0.0	3333.1
183+71	28.0	0.0	21.2	0.0	3354.3	0.0	3354.3
184+00	27.5	0.0	29.8	0.0	3384.1	0.0	3384.1
184+10	27.5	0.0	10.2	0.0	3394.3	0.0	3394.3
184+50	13.0	0.0	30.0	0.0	3424.3	0.0	3424.3
184+75	0.0	0.0	6.0	0.0	3430.3	0.0	3430.3
185+00	35.0	0.0	16.2	0.0	3446.5	0.0	3446.5
185+50	39.5	0.0	69.0	0.0	3515.5	0.0	3515.5
185+76	35.5	0.0	36.1	0.0	3551.6	0.0	3551.6
186+00	23.5	0.0	26.2	0.0	3577.8	0.0	3577.8
186+30	0.0	0.0	13.1	0.0	3590.9	0.0	3590.9
186+50	0.0	0.0	0.0	0.0	3590.9	0.0	3590.9
187+00	0.0	0.0	0.0	0.0	3590.9	0.0	3590.9
187+50	0.0	0.0	0.0	0.0	3590.9	0.0	3590.9
188+00	0.0	0.0	0.0	0.0	3590.9	0.0	3590.9
188+50	0.0	0.0	0.0	0.0	3590.9	0.0	3590.9
189+00	0.0	0.0	0.0	0.0	3590.9	0.0	3590.9
189+50	0.0	0.0	0.0	0.0	3590.9	0.0	3590.9
190+00	0.0	0.0	0.0	0.0	3590.9	0.0	3590.9
190+50	0.0	0.0	0.0	0.0	3590.9	0.0	3590.9
191+00	0.0	0.0	0.0	0.0	3590.9	0.0	3590.9
191+50	0.0	0.0	0.0	0.0	3590.9	0.0	3590.9
192+00	0.0	0.0	0.0	0.0	3590.9	0.0	3590.9
192+50	0.0	0.0	0.0	0.0	3590.9	0.0	3590.9
193+00	0.0	0.0	0.0	0.0	3590.9	0.0	3590.9
193+50	0.0	0.0	0.0	0.0	3590.9	0.0	3590.9
194+00	0.0	0.0	0.0	0.0	3590.9	0.0	3590.9
194+50	0.0	0.0	0.0	0.0	3590.9	0.0	3590.9
195+00	0.0	0.0	0.0	0.0	3590.9	0.0	3590.9
STAGE 1 (CONT.)							
195+50	0.0	0.0	0.0	0.0	3590.9	0.0	3590.9
196+00	0.0	0.0	0.0	0.0	3590.9	0.0	3590.9
196+50	0.0	0.0	0.0	0.0	3590.9	0.0	3590.9
197+00	0.0	0.0	0.0	0.0	3590.9	0.0	3590.9
197+50	0.0	0.0	0.0	0.0	3590.9	0.0	3590.9
198+00	0.0	0.0	0.0	0.0	3590.9	0.0	3590.9
198+50	0.0	0.0	0.0	0.0	3590.9	0.0	3590.9
199+00	0.0	0.0	0.0	0.0	3590.9	0.0	3590.9
199+50	0.0	0.0	0.0	0.0	3590.9	0.0	3590.9
200+00	0.0	0.0	0.0	0.0	3590.9	0.0	3590.9
200+50	0.0	0.0	0.0	0.0	3590.9	0.0	3590.9
201+00	0.0	0.0	0.0	0.0	3590.9	0.0	3590.9
201+50	0.0	0.0	0.0	0.0	3590.9	0.0	3590.9
202+00	0.0	0.0	0.0	0.0	3590.9	0.0	3590.9
202+50	0.0	0.0	0.0	0.0	3590.9	0.0	3590.9
202+71	0.0	0.0	0.0	0.0	3590.9	0.0	3590.9
203+00	0.0	0.0	0.0	0.0	3590.9	0.0	3590.9
203+50	0.0	0.0	0.0	0.0	3590.9	0.0	3590.9
204+00	10.0	0.0	9.3	0.0	3600.2	0.0	3600.2
204+50	18.0	0.0	25.9	0.0	3626.1	0.0	3626.1
205+00	17.5	0.0	32.9	0.0	3659.0	0.0	3659.0
205+50	11.0	0.0	26.4	0.0	3685.3	0.0	3685.3
205+95	0.0	0.0	9.2	0.0	3694.5	0.0	3694.5
206+00	0.0	0.0	0.0	0.0	3694.5	0.0	3694.5
206+50	0.0	0.0	0.0	0.0	3694.5	0.0	3694.5
207+00	0.0	0.0	0.0	0.0	3694.5	0.0	3694.5
207+50	0.0	0.0	0.0	0.0	3694.5	0.0	3694.5
208+00	0.0	0.0	0.0	0.0	3694.5	0.0	3694.5
208+50	0.0	0.0	0.0	0.0	3694.5	0.0	3694.5
209+00	0.0	0.0	0.0	0.0	3694.5	0.0	3694.5
209+32	0.0	0.0	0.0	0.0	3694.5	0.0	3694.5
209+50	0.0	0.0	0.0	0.0	3694.5	0.0	3694.5
209+77	0.0	0.0	0.0	0.0	3694.5	0.0	3694.5
210+00	0.0	0.0	0.0	0.0	3694.5	0.0	3694.5
210+50	0.0	0.0	0.0	0.0	3694.5	0.0	3694.5
210+73	0.0	0.0	0.0	0.0	3694.5	0.0	3694.5
211+00	0.0	0.0	0.0	0.0	3694.5	0.0	3694.5
211+50	0.0	0.0	0.0	0.0	3694.5	0.0	3694.5
211+62	0.0	0.0	0.0	0.0	3694.5	0.0	3694.5
212+00	0.0	0.0	0.0	0.0	3694.5	0.0	3694.5
212+50	0.0	0.0	0.0	0.0	3694.5	0.0	3694.5
213+00	0.0	0.0	0.0	0.0	3694.5	0.0	3694.5
213+50	0.0	0.0	0.0	0.0	3694.5	0.0	3694.5
214+00	0.0	0.0	0.0	0.0	3694.5	0.0	3694.5
214+50	0.0	0.0	0.0	0.0	3694.5	0.0	3694.5
215+00	25.5	0.0	23.6	0.0	3718.1	0.0	3718.1
215+50	21.5	0.0	43.5	0.0	3761.6	0.0	3761.6
216+00	20.0	0.0	38.4	0.0	3800.1	0.0	3800.1
216+50	5.0	0.0	23.1	0.0	3823.2	0.0	3823.2
217+00	11.5	0.0	15.3	0.0	3838.5	0.0	3838.5
217+50	16.0	0.0	25.5	0.0	3864.0	0.0	3864.0
218+00	16.0	0.0	29.6	0.0	3893.6	0.0	3893.6
218+50	16.0	0.0	29.6	0.0	3923.2	0.0	3923.2
219+00	15.0	0.0	28.7	0.0	3951.9	0.0	3951.9
219+50	5.0	0.0	18.5	0.0	3970.4	0.0	3970.4
220+00	0.0	0.0	4.6	0.0	3975.1	0.0	3975.1
220+50	34.0	0.0	31.5	0.0	4006.5	0.0	4006.5
221+00	20.0	0.0	50.0	0.0	4056.5	0.0	4056.5
221+50	0.0	0.0	18.5	0.0	4075.1	0.0	4075.1
222+00	0.0	0.0	0.0	0.0	4075.1	0.0	4075.1
222+50	0.0	0.0	0.0	0.0	4075.1	0.0	4075.1
223+00	0.0	0.0	0.0	0.0	4075.1	0.0	4075.1
223+50	0.0	0.0	0.0	0.0	4075.1	0.0	4075.1
224+00	0.0	0.0	0.0	0.0	4075.1	0.0	4075.1
224+50	0.0	0.0	0.0	0.0	4075.1	0.0	4075.1
225+00	0.0	0.0	0.0	0.0	4075.1	0.0	4075.1
225+50	0.0	0.0	0.0	0.0	4075.1	0.0	4075.1
226+00	0.0	0.0	0.0	0.0	4075.1	0.0	4075.1
226+50	0.0	0.0	0.0	0.0	4075.1	0.0	4075.1
227+00	0.0	0.0	0.0	0.0	4075.1	0.0	4075.1
227+50	0.0	0.0	0.0	0.0	4075.1	0.0	4075.1

STATION	END AREA CUT SF	END AREA FILL SF	INCREMENTAL VOLUME CUT CY	INCREMENTAL VOLUME FILL CY	CUMULATIVE VOLUME CUT CY	CUMULATIVE VOLUME FILL CY	MASS HAUL CY
STAGE 1 (CONT.)							
228+00	0.0	0.0	0.0	0.0	4075.1	0.0	4075.1
228+50	0.0	0.0	0.0	0.0	4075.1	0.0	4075.1
229+00	0.0	0.0	0.0	0.0	4075.1	0.0	4075.1
229+50	0.0	0.0	0.0	0.0	4075.1	0.0	4075.1
230+00	0.0	0.0	0.0	0.0	4075.1	0.0	4075.1
230+50	0.0	0.0	0.0	0.0	4075.1	0.0	4075.1
231+00	0.0	0.0	0.0	0.0	4075.1	0.0	4075.1
231+25	0.0	0.0	0.0	0.0	4075.1	0.0	4075.1
231+50	0.0	0.0	0.0	0.0	4075.1	0.0	4075.1
231+75	0.0	0.0	0.0	0.0	4075.1	0.0	4075.1
232+00	0.0	0.0	0.0	0.0	4075.1	0.0	4075.1
232+25	0.0	0.0	0.0	0.0	4075.1	0.0	4075.1
232+50	0.0	0.0	0.0	0.0	4075.1	0.0	4075.1
232+75	0.0	0.0	0.0	0.0	4075.1	0.0	4075.1
233+00	0.0	0.0	0.0	0.0	4075.1	0.0	4075.1
233+25	0.0	0.0	0.0	0.0	4075.1	0.0	4075.1
233+50	0.0	0.0	0.0	0.0	4075.1	0.0	4075.1
233+75	0.0	0.0	0.0	0.0	4075.1	0.0	4075.1
234+00	0.0	0.0	0.0	0.0	4075.1	0.0	4075.1
234+25	0.0	0.0	0.0	0.0	4075.1	0.0	4075.1
234+50	0.0	0.0	0.0	0.0	4075.1	0.0	4075.1
234+75	0.0	0.0	0.0	0.0	4075.1	0.0	4075.1
235+00	0.0	0.0	0.0	0.0	4075.1	0.0	4075.1
235+25	0.0	0.0	0.0	0.0	4075.1	0.0	4075.1
235+50	0.0	0.0	0.0	0.0	4075.1	0.0	4075.1
236+00	0.0	0.0	0.0	0.0	4075.1	0.0	4075.1
236+50	0.0	0.0	0.0	0.0	4075.1	0.0	4075.1
237+00	0.0	0.0	0.0	0.0	4075.1	0.0	4075.1
237+50	0.0	0.0	0.0	0.0	4075.1	0.0	4075.1
238+00	0.0	0.0	0.0	0.0	4075.1	0.0	4075.1
238+50	0.0	0.0	0.0	0.0	4075.1	0.0	4075.1
239+00	0.0	0.0	0.0	0.0	4075.1	0.0	4075.1
239+50	17.5	0.0	16.2	0.0	4091.3	0.0	4091.3
240+00	0.0	0.0	16.2	0.0	4107.5	0.0	4107.5
240+50	23.5	0.0	21.8	0.0	4129.2	0.0	4129.2
241+00	15.5	0.0	36.1	0.0	4165.3	0.0	4165.3
241+50	22.0	0.0	34.7	0.0	4200.1	0.0	4200.1
242+00	15.5	0.0	34.7	0.0	4234.8	0.0	4234.8
242+50	12.0	0.0	25.5	0.0	4260.3	0.0	4260.3
243+00	7.5	0.0	18.1	0.0	4278.3	0.0	4278.3
243+50	8.0	0.0	14.4	0.0	4292.7	0.0	4292.7
244+00	0.0	0.0	7.4	0.0	4300.1	0.0	4300.1
244+50	0.0	0.0	0.0	0.0	4300.1	0.0	4300.1
245+00	0.0	0.0	0.0	0.0	4300.1	0.0	4300.1
245+50	0.0	0.0	0.0	0.0	4300.1	0.0	4300.1
246+00	0.0	0.0	0.0	0.0	4300.1	0.0	4300.1
246+50	0.0	0.0	0.0	0.0	4300.1	0.0	4300.1
247+00	0.0	0.0	0.0	0.0	4300.1	0.0	4300.1
247+50	0.0	0.0	0.0	0.0	4300.1	0.0	4300.1
248+00	21.0	0.0	19.4	0.0	4319.5	0.0	4319.5
248+50	0.0	0.0	19.4	0.0	4339.0	0.0	4339.0
249+00	0.0	0.0	0.0	0.0	4339.0	0.0	4339.0
249+50	0.0	0.0	0.0	0.0	4339.0	0.0	4339.0
250+00	0.0	0.0	0.0	0.0	4339.0	0.0	4339.0
250+50	0.0	0.0	0.0	0.0	4339.0	0.0	4339.0
250+55	0.0	0.0	0.0	0.0	4339.0	0.0	4339.0
251+00	0.0	0.0	0.0	0.0	4339.0	0.0	4339.0
251+50	0.0	0.0	0.0	0.0	4339.0	0.0	4339.0
252+00	0.0	0.0	0.0	0.0	4339.0	0.0	4339.0
252+42	0.0	0.0	0.0	0.0	4339.0	0.0	4339.0
252+50	0.0	0.0	0.0	0.0	4339.0	0.0	4339.0
253+00	0.0	0.0	0.0	0.0	4339.0	0.0	4339.0
253+50	0.0	0.0	0.0	0.0	4339.0	0.0	4339.0
254+00	0.0	0.0	0.0	0.0	4339.0	0.0	4339.0
254+50	0.0	0.0	0.0	0.0	4339.0	0.0	4339.0
255+00	0.0	0.0	0.0	0.0	4339.0	0.0	4339.0
255+50	0.0	0.0	0.0	0.0	4339.0	0.0	4339.0
255+84	0.0	0.0	0.0	0.0	4339.0	0.0	4339.0
256+00	0.0	0.0	0.0	0.0	4339.0	0.0	4339.0
256+50	0.0	0.0	0.0	0.0	4339.0	0.0	4339.0
257+00	0.0	0.0	0.0	0.0	4339.0	0.0	4339.0

STATION	END AREA CUT SF	END AREA FILL SF	INCREMENTAL VOLUME CUT CY	INCREMENTAL VOLUME FILL CY	CUMULATIVE VOLUME CUT CY	CUMULATIVE VOLUME FILL CY	MASS HAUL CY
STAGE 1 (CONT.)							
257+35	0.0	0.0	0.0	0.0	4339.0	0.0	4339.0
257+50	0.0	0.0	0.0	0.0	4339.0	0.0	4339.0
258+00	0.0	0.0	0.0	0.0	4339.0	0.0	4339.0
258+50	0.0	0.0	0.0	0.0	4339.0	0.0	4339.0
259+00	0.0	0.0	0.0	0.0	4339.0	0.0	4339.0
259+50	0.0	0.0	0.0	0.0	4339.0	0.0	4339.0
260+00	0.0	0.0	0.0	0.0	4339.0	0.0	4339.0
260+50	0.0	0.0	0.0	0.0	4339.0	0.0	4339.0
261+00	0.0	0.0	0.0	0.0	4339.0	0.0	4339.0
261+50	0.0	0.0	0.0	0.0	4339.0	0.0	4339.0
261+78	0.0	0.0	0.0	0.0	4339.0	0.0	4339.0
262+00	0.0	0.0	0.0	0.0	4339.0	0.0	4339.0
262+50	0.0	0.0	0.0	0.0	4339.0	0.0	4339.0
263+00	0.0	0.0	0.0	0.0	4339.0	0.0	4339.0
263+50	0.0	0.0	0.0	0.0	4339.0	0.0	4339.0
264+00	0.0	0.0	0.0	0.0	4339.0	0.0	4339.0
264+15	0.0	0.0	0.0	0.0	4339.0	0.0	4339.0
264+50	0.0	0.0	0.0	0.0	4339.0	0.0	4339.0
265+00	0.0	0.0	0.0	0.0	4339.0	0.0	4339.0
265+50	0.0	0.0	0.0	0.0	4339.0	0.0	4339.0
266+00	0.0	0.0	0.0	0.0	4339.0	0.0	4339.0
266+50	0.0	0.0	0.0	0.0	4339.0	0.0	4339.0
267+00	0.0	0.0	0.0	0.0	4339.0	0.0	4339.0
267+50	0.0	0.0	0.0	0.0	4339.0	0.0	4339.0
268+00	0.0	0.0	0.0	0.0	4339.0	0.0	4339.0
268+50	0.0	0.0	0.0	0.0	4339.0	0.0	4339.0
269+00	0.0	0.0	0.0	0.0	4339.0	0.0	4339.0
269+50	0.0	0.0	0.0	0.0	4339.0	0.0	4339.0
269+95	0.0	0.0	0.0	0.0	4339.0	0.0	4339.0
270+00	0.0	0.0	0.0	0.0	4339.0	0.0	4339.0
270+50	0.0	0.0	0.0	0.0	4339.0	0.0	4339.0
271+00	0.0	0.0	0.0	0.0	4339.0	0.0	4339.0
271+50	0.0	0.0	0.0	0.0	4339.0	0.0	4339.0
272+00	0.0	0.0	0.0	0.0	4339.0	0.0	4339.0
272+50	0.0	0.0	0.0	0.0	4339.0	0.0	4339.0
272+57	0.0	0.0	0.0	0.0	4339.0	0.0	4339.0
273+00	0.0	0.0	0.0	0.0	4339.0	0.0	4339.0
273+50	0.0	0.0	0.0	0.0	4339.0	0.0	4339.0
274+00	0.0	0.0	0.0	0.0	4339.0	0.0	4339.0
274+50	0.0	0.0	0.0	0.0	4339.0	0.0	4339.0
274+73	0.0	0.0	0.0	0.0	4339.0	0.0	4339.0
275+00	0.0	0.0	0.0	0.0	4339.0	0.0	4339.0
275+50	0.0	0.0	0.0	0.0	4339.0	0.0	4339.0
276+00	0.0	0.0	0.0	0.0	4339.0	0.0	4339.0
276+50	0.0	0.0	0.0	0.0	4339.0	0.0	4339.0
276+67	0.0	0.0	0.0	0.0	4339.0	0.0	4339.0
277+00	0.0	0.0	0.0	0.0	4339.0	0.0	4339.0
277+50	0.0	0.0	0.0	0.0	4339.0	0.0	4339.0
278+00	0.0	0.0	0.0	0.0	4339.0	0.0	4339.0
278+50	0.0	0.0	0.0	0.0	4339.0	0.0	4339.0
279+00	0.0	0.0	0.0	0.0	4339.0	0.0	4339.0
279+50	0.0	0.0	0.0	0.0	4339.0	0.0	4339.0
280+00	0.0	0.0	0.0	0.0	4339.0	0.0	4339.0
280+50	0.0	0.0	0.0	0.0	4339.0	0.0	4339.0
281+00	0.0	0.0	0.0	0.0	4339.0	0.0	4339.0
281+50	48.0	0.0	44.4	0.0	4383.4	0.0	4383.4
282+00	44.0	0.0	85.2	0.0	4468.6	0.0	4468.6
282+50	52.0	0.0	88.9	0.0	4557.5	0.0	4557.5
283+00	40.0	0.0	85.2	0.0	4642.7	0.0	4642.7
283+50	53.0	0.0	86.1	0.0	4728.8	0.0	4728.8
284+00	29.5	0.0	76.4	0.0	4805.2	0.0	4805.2
284+50	0.0	0.0	27.3	0.0	4832.5	0.0	4832.5

STATION	END AREA CUT SF	END AREA FILL SF	INCREMENTAL VOLUME CUT CY	INCREMENTAL VOLUME FILL CY	CUMULATIVE VOLUME CUT CY	CUMULATIVE VOLUME FILL CY	MASS HAUL CY
STAGE 1 - 'TNE' LINE							
1+15 'TNE'	22.0	1.0					
1+50 'TNE'	238.5	0.0	168.8	0.8	168.8	0.8	168.0
2+00 'TNE'	225.0	0.0	429.2	0.0	598.0	0.8	597.2
2+50 'TNE'	171.5	0.0	367.1	0.0	965.1	0.8	964.3
3+00 'TNE'	125.5	0.5	275.0	0.6	1240.1	1.4	1238.8
3+50 'TNE'	115.5	3.0	223.1	4.1	1463.3	5.4	1457.8
4+00 'TNE'	113.5	2.0	212.0	5.8	1675.3	11.2	1664.1
4+50 'TNE'	97.5	1.0	195.4	3.5	1870.7	14.7	1856.0
5+00 'TNE'	77.0	0.5	161.6	1.7	2032.3	16.4	2015.8
5+50 'TNE'	59.5	0.0	126.4	0.6	2158.7	17.0	2141.6
6+00 'TNE'	27.5	0.0	80.6	0.0	2239.2	17.0	2222.2
6+25 'TNE'	16.0	0.0	20.1	0.0	2259.4	17.0	2242.3

STATION	END AREA CUT SF	END AREA FILL SF	INCREMENTAL VOLUME CUT CY	INCREMENTAL VOLUME FILL CY	CUMULATIVE VOLUME CUT CY	CUMULATIVE VOLUME FILL CY	MASS HAUL CY
STAGE 1 - 'TSE' LINE							
10+55 'TSE'	7.0	0.0					
10+75 'TSE'	15.0	0.0	8.1	0.0	8.1	0.0	8.1
11+00 'TSE'	28.5	0.5	20.1	0.3	28.3	0.3	28.0
11+50 'TSE'	34.5	1.0	58.3	1.7	86.6	2.0	84.6
12+00 'TSE'	43.5	0.5	72.2	1.7	158.8	3.8	155.1
12+50 'TSE'	54.0	0.5	90.3	1.2	249.1	4.9	244.2
13+00 'TSE'	56.5	0.5	102.3	1.2	351.4	6.1	345.4
13+50 'TSE'	60.5	0.5	108.3	1.2	459.8	7.2	452.5
14+00 'TSE'	59.0	0.5	110.6	1.2	570.4	8.4	562.0
14+50 'TSE'	49.5	0.5	100.5	1.2	670.9	9.5	661.3
15+00 'TSE'	45.0	0.5	87.5	1.2	758.4	10.7	747.7
15+50 'TSE'	48.5	0.5	86.6	1.2	845.0	11.9	833.1
16+00 'TSE'	53.5	0.0	94.4	0.6	939.4	12.4	927.0
16+50 'TSE'	62.0	0.0	106.9	0.0	1046.3	12.4	1033.9
17+00 'TSE'	77.5	0.0	129.2	0.0	1175.5	12.4	1163.1
17+50 'TSE'	96.5	0.0	161.1	0.0	1336.6	12.4	1324.2
18+00 'TSE'	95.5	0.0	177.8	0.0	1514.4	12.4	1502.0
18+50 'TSE'	33.0	0.5	119.0	0.6	1633.4	13.0	1620.4
18+70 'TSE'	36.0	0.5	25.6	0.5	1658.9	13.5	1645.5

9

9

PROJECT NO: 2140-08-73	HWY: STH 181	COUNTY: MILWAUKEE	EARTHWORK - STAGE 1	SHEET 870	E

FILE NAME : s:\@sdi\051--100\089\099\micros\design\0873\090102_ew.dgn PLOT DATE : 7/30/2007 PLOT BY : $$...plotuser...$$ PLOT NAME : PLOT SCALE : $$.....plotscale.....$$ WISDOT/CADDS SHEET 49

STATION	END AREA CUT SF	END AREA FILL SF	INCREMENTAL VOLUME CUT CY	INCREMENTAL VOLUME FILL CY	CUMULATIVE VOLUME CUT CY	CUMULATIVE VOLUME FILL CY	MASS HAUL CY
STAGE 2							
140+00	98.0	0.5					
140+50	103.5	0.5	186.6	1.2	186.6	1.2	185.4
141+00	97.5	0.0	186.1	0.6	372.7	1.7	370.9
141+50	95.5	0.0	178.7	0.0	551.4	1.7	549.7
142+00	92.0	0.0	173.6	0.0	725.0	1.7	723.3
142+50	90.5	0.0	169.0	0.0	894.0	1.7	892.2
143+00	92.0	0.0	169.0	0.0	1063.0	1.7	1061.2
143+50	90.0	0.0	168.5	0.0	1231.5	1.7	1229.7
144+00	77.5	0.0	155.1	0.0	1386.6	1.7	1384.8
144+21	78.0	0.0	60.5	0.0	1447.0	1.7	1445.3
144+50	77.5	1.5	83.5	1.0	1530.6	2.7	1527.8
145+00	90.0	0.0	155.1	1.7	1685.6	4.5	1681.2
145+50	94.0	0.0	170.4	0.0	1856.0	4.5	1851.5
145+90	90.0	1.0	136.3	0.9	1992.3	5.4	1986.9
146+00	91.0	1.0	33.5	0.5	2025.8	5.9	2020.0
146+50	90.0	0.5	167.6	1.7	2193.4	7.6	2185.8
147+00	90.0	0.5	166.7	1.2	2360.1	8.8	2351.3
147+11	89.5	0.5	36.6	0.3	2396.7	9.0	2387.6
147+50	92.0	0.5	131.1	0.9	2527.7	9.9	2517.8
148+00	98.0	0.0	175.9	0.6	2703.7	10.5	2693.2
148+50	97.5	0.0	181.0	0.0	2884.7	10.5	2874.2
149+00	92.0	2.0	175.5	2.3	3060.1	12.8	3047.3
149+50	97.5	0.0	175.5	2.3	3235.6	15.1	3220.5
150+00	87.0	1.0	170.8	1.2	3406.4	16.3	3390.2
150+50	85.0	0.5	159.3	1.7	3565.7	18.0	3547.7
151+00	81.5	0.5	154.2	1.2	3719.9	19.2	3700.7
151+50	80.5	0.0	150.0	0.6	3869.9	19.8	3850.1
152+00	91.5	0.5	159.3	0.6	4029.1	20.3	4008.8
152+50	80.5	1.0	159.3	1.7	4188.4	22.1	4166.3
152+88	57.5	0.0	97.1	0.9	4285.5	23.0	4262.5
153+00	79.5	0.0	30.4	0.0	4315.9	23.0	4293.0
153+09	79.5	0.0	26.5	0.0	4342.4	23.0	4319.5
153+50	77.5	0.0	119.2	0.0	4461.6	23.0	4438.7
154+00	78.5	0.5	144.4	0.6	4606.1	23.5	4582.6
154+50	93.5	0.5	159.3	1.2	4765.4	24.7	4740.7
155+00	90.0	0.0	169.9	0.6	4935.3	25.3	4910.0
155+50	98.0	0.0	174.1	0.0	5109.3	25.3	5084.1
155+89	116.0	0.0	154.6	0.0	5263.9	25.3	5238.6
156+00	119.5	0.0	48.0	0.0	5311.9	25.3	5286.6
156+50	124.0	0.0	225.5	0.0	5537.3	25.3	5512.1
157+00	118.5	0.0	224.5	0.0	5761.9	25.3	5736.6
157+50	102.0	1.0	204.2	1.2	5966.0	26.4	5939.6
157+61	99.0	2.5	40.9	0.9	6007.0	27.3	5979.7
158+00	94.5	3.5	139.8	5.4	6146.7	32.7	6114.0
158+50	93.5	2.5	174.1	6.9	6320.8	39.7	6281.1
158+64	93.5	1.5	48.5	1.3	6369.3	41.0	6328.3
159+00	96.0	1.0	126.3	2.1	6495.6	43.1	6452.6
159+50	98.5	0.5	180.1	1.7	6675.7	44.8	6630.9
160+00	102.0	0.0	185.6	0.6	6861.4	45.4	6816.0
160+50	93.5	0.5	181.0	0.6	7042.4	45.9	6996.4
160+69	91.5	1.0	65.1	0.7	7107.5	46.6	7060.9
161+00	94.0	0.5	106.5	1.1	7214.0	47.7	7166.3
161+50	85.0	0.0	165.7	0.6	7379.7	48.3	7331.4
162+00	76.5	0.5	149.5	0.6	7529.2	48.8	7480.4
162+13	75.0	1.0	36.5	0.5	7565.7	49.3	7516.4
162+50	72.0	1.0	100.7	1.7	7666.4	51.0	7615.4
163+00	74.0	1.0	135.2	2.3	7801.6	53.3	7748.3
163+50	89.5	0.0	151.4	1.2	7953.0	54.5	7898.5
164+00	95.0	0.0	170.8	0.0	8123.8	54.5	8069.4
164+50	97.5	0.0	178.2	0.0	8302.1	54.5	8247.6
164+60	99.0	0.0	36.4	0.0	8338.5	54.5	8284.0
165+00	102.5	0.0	149.3	0.0	8487.7	54.5	8433.2
165+50	109.5	0.0	196.3	0.0	8684.0	54.5	8629.5
166+00	124.0	0.0	216.2	0.0	8900.2	54.5	8845.7
166+24	125.5	0.0	110.9	0.0	9011.1	54.5	8956.6
166+50	126.5	0.0	121.3	0.0	9132.4	54.5	9078.0
167+00	110.0	0.0	219.0	0.0	9351.4	54.5	9296.9
167+50	72.5	1.5	169.0	1.7	9520.4	56.2	9464.2
167+74	71.5	0.5	64.0	1.1	9584.4	57.3	9527.1
168+00	66.5	3.0	66.4	2.1	9650.9	59.4	9591.4
168+50	101.0	0.0	155.1	3.5	9805.9	62.9	9743.0
STAGE 2 (CONT.)							
169+00	95.0	0.0	181.5	0.0	9987.4	62.9	9924.5
169+50	82.0	0.0	163.9	0.0	10151.3	62.9	10088.4
170+00	77.5	0.0	147.7	0.0	10299.	62.9	10236.1
170+35	76.5	2.5	99.8	2.0	10398.	64.9	10333.9
170+50	80.0	2.0	43.5	1.6	10442.	66.5	10375.8
171+00	94.5	0.0	161.6	2.3	10603.	68.8	10535.1
171+50	96.0	0.0	176.4	0.0	10780.	68.8	10711.4
172+00	101.0	0.0	182.4	0.0	10962.	68.8	10893.8
172+50	99.0	0.0	185.2	0.0	11147.8	68.8	11079.0
173+00	96.5	1.0	181.0	1.2	11328.9	70.0	11258.9
173+50	26.0	0.0	113.4	1.2	11442.3	71.1	11371.2
174+00	94.5	0.5	111.6	0.6	11553.9	71.7	11482.2
174+12	93.0	0.5	41.7	0.3	11595.5	72.0	11523.5
174+50	104.0	0.0	138.6	0.4	11734.2	72.4	11661.7
175+00	103.5	0.0	192.1	0.0	11926.3	72.4	11853.9
175+50	100.5	0.0	188.9	0.0	12115.2	72.4	12042.8
175+77	97.5	0.5	99.0	0.3	12214.2	72.7	12141.4
176+00	97.5	0.0	83.1	0.3	12297.	73.0	12224.2
176+50	100.5	0.5	183.3	0.6	12480.	73.6	12407.0
176+67	104.0	0.0	64.4	0.2	12544.	73.8	12471.2
177+00	102.5	0.5	126.2	0.4	12671.1	74.2	12597.0
177+27	92.0	1.0	97.3	0.9	12768.	75.1	12693.3
177+36	88.0	1.0	30.0	0.4	12798.	75.5	12722.9
177+50	84.0	0.5	44.6	0.5	12843.	76.0	12767.0
178+00	85.0	0.0	156.5	0.6	12999.	76.6	12922.9
178+39	81.0	3.0	119.9	2.7	13119.4	79.3	13040.1
178+50	79.5	3.5	32.7	1.7	13152.0	80.9	13071.1
179+00	58.5	0.0	127.8	4.1	13279.	85.0	13194.8
179+50	170.0	0.0	211.6	0.0	13491.4	85.0	13406.4
180+00	76.5	0.0	228.2	0.0	13719.6	85.0	13634.7
180+27	75.5	1.0	76.0	0.6	13795.	85.6	13710.0
180+37	76.5	1.5	28.1	0.6	13823.	86.2	13737.6
180+50	79.0	1.0	37.4	0.8	13861.2	86.9	13774.3
181+00	80.0	0.0	147.2	1.2	14008.	88.1	13920.3
181+22	112.5	0.0	78.4	0.0	14086.	88.1	13998.8
181+42	105.5	0.0	80.7	0.0	14167.6	88.1	14079.5
181+50	104.5	0.0	31.1	0.0	14198.7	88.1	14110.6
181+66	104.0	0.0	61.8	0.0	14260.	88.1	14172.4
182+00	115.0	0.0	137.9	0.0	14398.	88.1	14310.3
182+50	107.5	0.0	206.0	0.0	14604.	88.1	14516.3
182+77	107.5	0.0	107.5	0.0	14711.9	88.1	14623.8
183+00	106.0	0.0	90.9	0.0	14802.	88.1	14714.7
183+50	100.0	0.0	190.7	0.0	14993.	88.1	14905.5
183+71	97.0	0.0	76.6	0.0	15070.	88.1	14982.1
184+00	105.0	0.0	108.5	0.0	15178.7	88.1	15090.6
184+10	106.5	0.0	39.2	0.0	15217.8	88.1	15129.7
184+50	101.5	0.0	154.1	0.0	15371.9	88.1	15283.8
184+75	94.5	1.5	90.7	0.9	15462.	89.0	15373.7
185+00	97.5	0.0	88.9	0.9	15551.5	89.8	15461.7
185+50	92.5	0.0	175.9	0.0	15727.	89.8	15637.6
185+76	88.5	0.0	87.1	0.0	15814.6	89.8	15724.8
186+00	79.0	0.0	74.4	0.0	15889.1	89.8	15799.2
186+30	51.5	3.0	72.5	2.1	15961.6	91.9	15869.6
186+50	42.5	8.5	34.8	5.3	15996.	97.2	15899.1
187+00	50.5	5.0	86.1	15.6	16082.	112.9	15969.6
187+50	52.0	9.5	94.9	16.8	16177.4	129.7	16047.7
188+00	64.0	7.0	107.4	19.1	16284.	148.8	16136.1
188+50	73.5	1.5	127.3	9.8	16412.1	158.6	16253.5
189+00	72.5	1.5	135.2	3.5	16547.	162.1	16385.2
189+50	70.0	2.5	131.9	4.6	16679.	166.7	16512.6
190+00	65.0	5.0	125.0	8.7	16804.	175.4	16628.9
190+50	62.0	6.0	117.6	12.7	16921.8	188.1	16733.7
191+00	70.0	3.5	122.2	11.0	17044.1	199.1	16845.0
191+50	61.5	5.0	121.8	9.8	17165.8	208.9	16956.9
192+00	0.0	0.0	56.9	5.8	17222.	214.7	17008.0
192+50	0.0	0.0	0.0	0.0	17222.	214.7	17008.0
193+00	0.0	0.0	0.0	0.0	17222.	214.7	17008.0
193+50	61.5	0.0	56.9	0.0	17279.	214.7	17065.0
194+00	57.0	5.5	109.7	6.4	17389.	221.1	17168.3
194+50	71.0	1.0	118.5	7.5	17508.	228.6	17279.3
195+00	65.5	3.5	126.4	5.2	17634.	233.8	17400.5
STAGE 2 (CONT.)							
195+50	62.5	4.0	118.5	8.7	17752.	242.5	17510.4
196+00	60.5	3.5	113.9	8.7	17866.	251.2	17615.6
196+50	61.5	4.5	113.0	9.3	17979.	260.4	17719.3
197+00	62.5	2.5	114.8	8.1	18094.	268.5	17826.0
197+50	65.0	1.0	118.1	4.1	18212.6	272.6	17940.0
198+00	65.5	2.0	120.8	3.5	18333.	276.1	18057.4
198+50	63.0	3.5	119.0	6.4	18452.	282.4	18170.0
199+00	65.5	3.0	119.0	7.5	18571.4	290.0	18281.4
199+50	70.0	2.5	125.5	6.4	18696.	296.3	18400.5
200+00	68.0	3.5	127.8	6.9	18824.	303.3	18521.4
200+50	78.0	3.0	135.2	7.5	18959.	310.8	18649.0
201+00	88.5	1.5	154.2	5.2	19114.0	316.0	18798.0
201+50	87.5	5.5	163.0	8.1	19276.	324.1	18952.8
202+00	85.0	7.0	159.7	14.5	19436.	338.6	19098.1
202+50	49.5	3.5	124.5	12.2	19561.2	350.7	19210.5
202+71	49.0	2.5	38.3	2.9	19599.	353.6	19245.9
203+00	55.5	4.5	56.1	4.7	19655.	358.3	19297.3
203+50	72.5	4.5	118.5	10.4	19774.1	368.8	19405.4
204+00	67.0	1.0	129.2	6.4	19903.	375.1	19528.2
204+50	71.5	0.5	128.2	1.7	20031.	376.9	19654.7
205+00	70.5	0.0	131.5	0.6	20163.	377.4	19785.6
205+50	67.5	0.5	127.8	0.6	20290.	378.0	19912.8
205+95	62.5	0.0	108.3	0.5	20399.	378.5	20020.6
206+00	62.0	0.0	11.5	0.0	20410.	378.5	20032.1
206+50	67.0	3.0	119.4	3.5	20530.	382.0	20148.1
207+00	66.5	3.0	123.6	6.9	20653.	388.9	20264.8
207+50	66.5	2.0	123.1	5.8	20776.	394.7	20382.1
208+00	69.0	4.5	125.5	7.5	20902.	402.3	20500.1
208+50	71.0	1.0	129.6	6.4	21032.	408.6	20623.3
209+00	72.5	0.5	132.9	1.7	21164.8	410.4	20754.5
209+32	72.5	0.0	85.9	0.4	21250.	410.7	20840.0
209+50	79.0	0.0	50.5	0.0	21301.3	410.7	20890.5
209+77	75.0	0.5	77.0	0.3	21378.	411.0	20967.2
210+00	83.5	0.0	67.5	0.3	21445.	411.3	21034.5
210+50	108.0	0.0	177.3	0.0	21623.1	411.3	21211.8
210+73	86.0	0.0	82.6	0.0	21705.	411.3	21294.4
211+00	107.0	0.0	96.5	0.0	21802.	411.3	21390.9
211+50	80.0	0.0	173.1	0.0	21975.	411.3	21564.1
211+62	85.0	0.0	36.7	0.0	22012.	411.3	21600.7
212+00	77.5	0.0	114.4	0.0	22126.	411.3	21715.1
212+50	76.0	0.0	142.1	0.0	22268.	411.3	21857.2
213+00	58.0	0.0	124.1	0.0	22392.	411.3	21981.3
213+50	74.5	0.0	122.7	0.0	22515.	411.3	22104.0
214+00	80.0	0.0	143.1	0.0	22658.	411.3	22247.0
214+50	78.0	0.0	146.3	0.0	22804.	411.3	22393.3
215+00	81.0	0.0	147.2	0.0	22951.	411.3	22540.5
215+50	86.0	0.0	154.6	0.0	23106.	411.3	22695.2
216+00	88.0	0.0	161.1	0.0	23267.	411.3	22856.3
216+50	82.5	0.0	157.9	0.0	23425.	411.3	23014.1
217+00	76.0	0.0	146.8	0.0	23572.	411.3	23160.9
217+50	58.5	0.0	124.5	0.0	23696.	411.3	23285.4
218+00	88.0	0.0	135.6	0.0	23832.	411.3	23421.1
218+50	54.0	0.0	131.5	0.0	23963.	411.3	23552.6
219+00	57.5	0.0	103.2	0.0	24067.	411.3	23655.8
219+50	68.0	0.0	116.2	0.0	24183.	411.3	23772.0
220+00	85.0	0.0	141.7	0.0	24325.	411.3	23913.7
220+50	54.0	0.0	128.7	0.0	24453.	411.3	24042.4
221+00	55.0	0.0	100.9	0.0	24554.	411.3	24143.3
221+50	53.5	0.0	100.5	0.0	24655.	411.3	24243.8
222+00	51.5	0.0	97.2	0.0	24752.	411.3	24341.0
222+50	54.0	0.0	97.7	0.0	24850.	411.3	24438.7
223+00	55.5	0.0	101.4	0.0	24951.	411.3	24540.1
223+50	56.5	0.0	103.7	0.0	25055.	411.3	24643.8
224+00	55.0	0.0	103.2	0.0	25158.	411.3	24747.0
224+50	57.5	0.0	104.2	0.0	25262.	411.3	24851.2
225+00	88.0	9.5	134.7	11.0	25397.	422.3	24974.9
225+50	79.5	10.0	155.1	22.6	25552.	444.9	25107.4
226+00	74.0	7.5	142.1	20.3	25694.	465.1	25229.3
226+50	72.5	6.0	135.6	15.6	25830.	480.8	25349.3
227+00	75.5	3.5	137.0	11.0	25967.	491.7	25475.4
227+50	78.5	3.0	142.6	7.5	26109.	499.3	25610.4

STATION	END AREA CUT SF	END AREA FILL SF	INCREMENTAL VOLUME CUT CY	INCREMENTAL VOLUME FILL CY	CUMULATIVE VOLUME CUT CY	CUMULATIVE VOLUME FILL CY	MASS HAUL CY
STAGE 2 (CONT.)							
228+00	87.0	1.5	153.2	5.2	26263.	504.5	25758.5
228+50	93.5	1.0	167.1	2.9	26430.	507.4	25922.7
229+00	93.0	1.0	172.7	2.3	26602.	509.7	26093.1
229+50	84.5	1.0	164.4	2.3	26767.	512.0	26255.1
230+00	72.0	5.0	144.9	6.9	26912.	518.9	26393.1
230+50	61.5	10.0	123.6	17.4	27035.	536.3	26499.3
231+00	47.5	13.5	100.9	27.2	27136.	563.5	26573.1
231+25	46.5	17.5	43.5	17.9	27180.1	581.4	26598.6
231+50	48.5	17.5	44.0	20.3	27224.	601.7	26622.4
231+75	47.0	27.5	44.2	26.0	27268.	627.7	26640.5
232+00	0.0	0.0	21.8	15.9	27290.	643.7	26646.4
232+25	0.0	0.0	0.0	0.0	27290.	643.7	26646.4
232+50	0.0	0.0	0.0	0.0	27290.	643.7	26646.4
232+75	0.0	0.0	0.0	0.0	27290.	643.7	26646.4
233+00	0.0	0.0	0.0	0.0	27290.	643.7	26646.4
233+25	0.0	0.0	0.0	0.0	27290.	643.7	26646.4
233+50	0.0	0.0	0.0	0.0	27290.	643.7	26646.4
233+75	0.0	0.0	0.0	0.0	27290.	643.7	26646.4
234+00	0.0	0.0	0.0	0.0	27290.	643.7	26646.4
234+25	0.0	0.0	0.0	0.0	27290.	643.7	26646.4
234+50	0.0	0.0	0.0	0.0	27290.	643.7	26646.4
234+75	45.5	20.5	21.1	11.9	27311.1	655.5	26655.6
235+00	46.5	17.0	42.6	21.7	27353.	677.2	26676.5
235+25	49.0	38.0	44.2	31.8	27397.	709.1	26688.9
235+50	51.5	23.0	46.5	35.3	27444.	744.4	26700.1
236+00	57.0	10.5	100.5	38.8	27544.	783.1	26761.8
236+50	63.0	9.0	111.1	22.6	27656.	805.7	26850.3
237+00	74.5	5.5	127.3	16.8	27783.	822.5	26960.8
237+50	75.0	3.5	138.4	10.4	27921.	832.9	27088.9
238+00	76.0	4.5	139.8	9.3	28061.	842.2	27219.4
238+50	76.0	0.0	140.7	5.2	28202.	847.4	27354.9
239+00	63.0	17.0	128.7	19.7	28331.	867.0	27464.0
239+50	49.0	27.5	103.7	51.5	28434.	918.5	27516.2
240+00	75.0	35.0	114.8	72.3	28549.	990.9	27558.6
240+50	46.5	22.5	112.5	66.6	28662.	1057.4	27604.6
241+00	57.5	11.5	96.3	39.4	28758.	1096.8	27661.5
241+50	62.0	6.0	110.6	20.3	28869.	1117.0	27751.9
242+00	59.0	2.0	112.0	9.3	28981.	1126.3	27854.7
242+50	50.0	0.0	100.9	2.3	29081.	1128.6	27953.3
243+00	55.0	2.5	97.2	2.9	29179.	1131.5	28047.7
243+50	55.0	2.0	101.9	5.2	29281.	1136.7	28144.3
244+00	55.0	6.0	101.9	9.3	29382.	1146.0	28236.9
244+50	52.5	5.5	99.5	13.3	29482.	1159.3	28323.1
245+00	75.5	3.0	118.5	9.8	29600.	1169.1	28431.8
245+50	84.5	2.5	148.1	6.4	29749.	1175.5	28573.6
246+00	93.0	4.5	164.4	8.1	29913.	1183.6	28729.8
246+50	99.0	6.0	177.8	12.2	30091.	1195.7	28895.5
247+00	63.5	7.0	150.5	15.0	30241.	1210.8	29030.9
247+50	63.5	6.0	117.6	15.0	30359.	1225.8	29133.4
248+00	72.5	5.0	125.9	12.7	30485.	1238.6	29246.6
248+50	71.5	4.5	133.3	11.0	30618.	1249.6	29368.9
249+00	73.5	4.5	134.3	10.4	30752.	1260.0	29492.8
249+50	71.0	4.5	133.8	10.4	30886.	1270.4	29616.2
250+00	70.5	4.5	131.0	10.4	31017.6	1280.8	29736.8
250+50	68.0	4.5	128.2	10.4	31145.8	1291.2	29854.6
250+55	68.0	4.5	12.6	1.0	31158.4	1292.3	29866.1
251+00	68.0	6.0	113.3	10.9	31271.8	1303.2	29968.5
251+50	62.0	6.0	120.4	13.9	31392.1	1317.1	30075.0
252+00	60.5	7.0	113.4	15.0	31505.	1332.1	30173.4
252+42	71.0	6.5	102.3	13.1	31607.	1345.3	30262.6
252+50	72.5	6.0	21.3	2.3	31629.1	1347.6	30281.5
253+00	75.0	5.0	136.6	12.7	31765.	1360.3	30405.3
253+50	74.5	5.0	138.4	11.6	31904.1	1371.9	30532.2
254+00	78.5	3.0	141.7	9.3	32045.	1381.1	30664.6
254+50	81.0	2.0	147.7	5.8	32193.	1386.9	30806.5
255+00	80.5	0.5	149.5	2.9	32343.	1389.8	30953.1
255+50	79.5	0.5	148.1	1.2	32491.1	1391.0	31100.1
255+84	81.0	5.5	101.1	4.7	32592.	1395.7	31196.5
256+00	79.5	1.5	47.6	2.6	32639.	1398.3	31241.4
256+50	80.0	0.0	147.7	1.7	32787.	1400.0	31387.4
257+00	90.5	0.0	157.9	0.0	32945.	1400.0	31545.3

STATION	END AREA CUT SF	END AREA FILL SF	INCREMENTAL VOLUME CUT CY	INCREMENTAL VOLUME FILL CY	CUMULATIVE VOLUME CUT CY	CUMULATIVE VOLUME FILL CY	MASS HAUL CY
STAGE 2 (CONT.)							
257+35	91.5	0.0	118.0	0.0	33063.	1400.0	31663.2
257+50	92.0	0.0	51.0	0.0	33114.2	1400.0	31714.2
258+00	84.5	1.0	163.4	1.2	33277.	1401.2	31876.5
258+50	82.5	1.0	154.6	2.3	33432.	1403.5	32028.8
259+00	78.5	1.0	149.1	2.3	33581.	1405.8	32175.5
259+50	80.5	1.5	147.2	2.9	33728.	1408.7	32319.9
260+00	73.0	2.0	142.1	4.1	33870.	1412.8	32457.9
260+50	67.0	3.0	129.6	5.8	34000.	1418.6	32581.8
261+00	63.5	3.0	120.8	6.9	34121.2	1425.5	32695.7
261+50	55.5	5.0	110.2	9.3	34231.	1434.8	32796.6
261+78	54.0	5.0	56.8	6.5	34288.	1441.2	32846.9
262+00	55.0	6.0	44.4	5.6	34332.	1446.8	32885.7
262+50	58.0	5.0	104.6	12.7	34437.	1459.6	32977.6
263+00	66.5	3.0	115.3	9.3	34552.	1468.8	33083.6
263+50	80.0	1.0	135.6	4.6	34688.	1473.5	33214.6
264+00	84.5	1.0	152.3	2.3	34840.	1475.8	33364.6
264+15	86.5	0.5	47.5	0.5	34887.	1476.3	33411.6
264+50	91.0	0.5	115.0	0.8	35003.	1477.1	33525.8
265+00	89.0	0.5	166.7	1.2	35169.	1478.3	33691.4
265+50	89.5	0.5	165.3	1.2	35334.	1479.4	33855.5
266+00	89.5	0.0	165.7	0.6	35500.	1480.0	34020.6
266+50	94.0	0.5	169.9	0.6	35670.	1480.6	34190.0
267+00	82.0	0.5	163.0	1.2	35833.	1481.7	34351.8
267+50	77.5	1.0	147.7	1.7	35981.	1483.5	34497.7
268+00	75.0	2.0	141.2	3.5	36122.	1486.9	34635.5
268+50	71.5	2.0	135.6	4.6	36258.	1491.6	34766.5
269+00	72.0	2.0	132.9	4.6	36390.	1496.2	34894.7
269+50	72.0	2.0	133.3	4.6	36524.	1500.8	35023.4
269+95	74.0	1.5	121.7	3.6	36645.	1504.5	35141.4
270+00	74.0	1.5	13.7	0.3	36659.	1504.8	35154.8
270+50	71.5	2.0	134.7	4.1	36794.	1508.9	35285.5
271+00	68.0	2.5	129.2	5.2	36923.	1514.1	35409.4
271+50	64.5	3.0	122.7	6.4	37046.	1520.5	35525.7
272+00	63.5	3.5	118.5	7.5	37164.	1528.0	35636.7
272+50	66.5	2.0	120.4	6.4	37285.	1534.3	35750.7
272+57	69.0	1.5	17.6	0.6	37302.	1534.9	35767.7
273+00	68.5	2.5	109.5	4.0	37412.1	1538.9	35873.3
273+50	71.5	2.0	129.6	5.2	37541.	1544.1	35997.7
274+00	76.0	0.5	136.6	2.9	37678.	1547.0	36131.4
274+50	75.0	1.0	139.8	1.7	37818.	1548.7	36269.4
274+73	69.5	2.5	61.5	1.9	37879.	1550.6	36329.1
275+00	69.5	2.5	69.5	3.1	37949.	1553.7	36395.5
275+50	72.0	2.5	131.0	5.8	38080.	1559.5	36520.7
276+00	71.5	2.5	132.9	5.8	38213.1	1565.3	36647.8
276+50	68.5	2.5	129.6	5.8	38342.	1571.1	36771.6
276+67	68.5	2.5	43.1	2.0	38385.	1573.0	36812.8
277+00	70.5	2.0	84.9	3.4	38470.	1576.5	36894.3
277+50	69.0	3.0	129.2	5.8	38600.	1582.3	37017.7
278+00	70.0	1.5	128.7	5.2	38728.	1587.5	37141.2
278+50	69.5	2.0	129.2	4.1	38857.	1591.5	37266.3
279+00	64.5	3.0	124.1	5.8	38981.	1597.3	37384.6
279+50	59.5	4.0	114.8	8.1	39096.	1605.4	37491.3
280+00	59.0	4.5	109.7	9.8	39206.	1615.3	37591.2
280+50	63.0	4.5	113.0	10.4	39319.	1625.7	37693.7
281+00	66.0	2.0	119.4	7.5	39438.	1633.2	37805.7
281+50	49.0	0.0	106.5	2.3	39545.	1635.5	37909.8
282+00	51.0	0.0	92.6	0.0	39637.	1635.5	38002.4
282+50	56.0	0.0	99.1	0.0	39737.	1635.5	38101.5
283+00	53.0	0.0	100.9	0.0	39837.	1635.5	38202.4
283+50	51.0	0.0	96.3	0.0	39934.	1635.5	38298.7
284+00	52.0	0.0	95.4	0.0	40029.	1635.5	38394.1
284+50	58.5	0.0	102.3	0.0	40131.9	1635.5	38496.4
285+00	0.0	0.0	54.2	0.0	40186.1	1635.5	38550.6

STATION	END AREA CUT SF	END AREA FILL SF	INCREMENTAL VOLUME CUT CY	INCREMENTAL VOLUME FILL CY	CUMULATIVE VOLUME CUT CY	CUMULATIVE VOLUME FILL CY	MASS HAUL CY
STAGE 2 - 'TSW' LINE							
6+75 'TSW'	10.0	0.0					
7+00 'TSW'	18.5	0.0	13.2	0.0	13.2	0.0	13.2
7+25 'TSW'	22.0	0.5	18.8	0.3	31.9	0.3	31.7
7+50 'TSW'	26.5	2.5	22.5	1.7	54.4	2.0	52.4
8+00 'TSW'	42.5	4.0	63.9	7.5	118.3	9.5	108.7
8+50 'TSW'	54.0	5.0	89.4	10.4	207.6	20.0	187.7
9+00 'TSW'	67.5	3.5	112.5	9.8	320.1	29.8	290.3
9+50 'TSW'	79.0	2.5	135.6	6.9	455.8	36.7	419.0
10+00 'TSW'	90.5	1.5	156.9	4.6	612.7	41.4	571.4
10+50 'TSW'	107.5	0.5	183.3	2.3	796.1	43.7	752.4
11+00 'TSW'	130.5	0.0	220.4	0.6	1016.4	44.3	972.2
11+50 'TSW'	153.5	0.0	263.0	0.0	1279.4	44.3	1235.1
12+00 'TSW'	169.0	0.0	298.6	0.0	1578.0	44.3	1533.7
12+50 'TSW'	185.0	0.0	327.8	0.0	1905.8	44.3	1861.5
13+00 'TSW'	194.5	0.0	351.4	0.0	2257.2	44.3	2212.9
13+50 'TSW'	194.5	0.0	360.2	0.0	2617.4	44.3	2573.1
14+00 'TSW'	183.0	0.0	349.5	0.0	2966.9	44.3	2922.6
14+50 'TSW'	165.5	0.0	322.7	0.0	3289.6	44.3	3245.3
15+00 'TSW'	183.0	0.0	322.7	0.0	3612.3	44.3	3568.0
15+50 'TSW'	119.0	0.0	279.6	0.0	3891.9	44.3	3847.6
16+00 'TSW'	69.5	0.0	174.5	0.0	4066.4	44.3	4022.2
16+25 'TSW'	40.0	0.0	50.7	0.0	4117.1	44.3	4072.9
16+50 'TSW'	25.5	0.5	30.3	0.3	4147.5	44.6	4102.9

STATION	END AREA CUT SF	END AREA FILL SF	INCREMENTAL VOLUME CUT CY	INCREMENTAL VOLUME FILL CY	CUMULATIVE VOLUME CUT CY	CUMULATIVE VOLUME FILL CY	MASS HAUL CY
STAGE 2 - 'NE1' LINE							
233+89 'NE1'	48.9	0.3					
234+00 'NE1'	48.9	0.3	19.6	0.2	19.6	0.2	19.5
234+50 'NE1'	56.3	0.0	97.4	0.4	117.0	0.5	116.5
235+00 'NE1'	57.3	0.0	105.2	0.0	222.2	0.5	221.6
235+50 'NE1'	51.1	0.0	100.4	0.0	322.5	0.5	322.0
236+00 'NE1'	47.8	0.0	91.6	0.0	414.1	0.5	413.6
236+50 'NE1'	45.8	0.0	86.7	0.0	500.8	0.5	500.2
237+00 'NE1'	43.7	0.0	82.8	0.0	583.6	0.6	583.1
237+50 'NE1'	47.0	0.0	84.0	0.0	667.6	0.6	667.1

STATION	END AREA CUT SF	END AREA FILL SF	INCREMENTAL VOLUME CUT CY	INCREMENTAL VOLUME FILL CY	CUMULATIVE VOLUME CUT CY	CUMULATIVE VOLUME FILL CY	MASS HAUL CY
STAGE 2 - 'NE' LINE							
234+46 'NE'	37.1	0.5					
234+50 'NE'	37.1	0.5	5.0	0.1	5.0	0.1	4.9
235+00 'NE'	37.3	0.2	68.9	0.8	73.8	0.9	72.9
235+50 'NE'	40.5	0.0	72.0	0.3	145.8	1.2	144.6
236+00 'NE'	43.5	0.0	77.7	0.0	223.5	1.2	222.3
236+50 'NE'	41.2	0.0	78.4	0.0	301.9	1.2	300.7
237+00 'NE'	41.9	0.0	76.9	0.0	378.9	1.2	377.7
237+50 'NE'	43.9	0.0	79.4	0.0	458.2	1.2	457.0
238+00 'NE'	95.6	0.0	129.1	0.0	587.3	1.2	586.1
238+50 'NE'	74.4	0.0	157.4	0.1	744.8	1.3	743.5
239+00 'NE'	61.9	0.0	126.2	0.0	870.9	1.3	869.6
239+50 'NE'	53.8	0.0	107.0	0.0	977.9	1.4	976.6
240+00 'NE'	49.8	0.1	95.9	0.1	1073.8	1.5	1072.3
240+50 'NE'	51.6	0.1	93.9	0.2	1167.7	1.7	1166.1
241+00 'NE'	46.2	5.8	90.6	6.8	1258.3	8.5	1249.8
241+50 'NE'	49.9	3.0	89.0	10.2	1347.3	18.7	1328.6
242+00 'NE'	44.7	0.8	87.6	4.4	1434.9	23.1	1411.8
242+50 'NE'	62.4	0.0	99.2	0.9	1534.1	24.0	1510.1
243+00 'NE'	39.8	0.0	94.6	0.0	1628.7	24.0	1604.8
243+50 'NE'	29.9	0.0	64.5	0.0	1693.3	24.0	1669.3

9

9

PROJECT NO:2140-08-73 | HWY: STH 181 | COUNTY: MILWAUKEE | EARTHWORK - STAGE 2 | SHEET 872 | E

STATION	END AREA CUT SF	END AREA FILL SF	INCREMENTAL VOLUME CUT CY	INCREMENTAL VOLUME FILL CY	CUMULATIVE VOLUME CUT CY	CUMULATIVE VOLUME FILL CY	MASS HAUL CY
STAGE 2 - 'SE' LINE							
221+00 'SE'	40.7	1.3					
221+50 'SE'	40.3	3.1	75.0	5.1	75.0	5.1	69.9
222+00 'SE'	40.3	4.1	74.6	8.3	149.6	13.4	136.2
222+50 'SE'	45.6	5.3	79.6	10.9	229.1	24.2	204.9
223+00 'SE'	50.3	5.0	88.8	11.9	317.9	36.2	281.8
223+50 'SE'	54.9	4.8	97.4	11.3	415.3	47.5	367.8
224+00 'SE'	67.6	3.9	113.4	10.1	528.8	57.6	471.2
224+50 'SE'	39.5	2.4	99.1	7.2	627.9	64.8	563.1
225+00 'SE'	35.7	0.5	69.6	3.4	697.4	68.2	629.3
225+50 'SE'	32.3	4.0	62.9	5.2	760.4	73.4	687.0
226+00 'SE'	34.5	5.0	61.8	10.4	822.2	83.8	738.4
226+50 'SE'	33.3	1.0	62.7	7.0	885.0	90.8	794.1
227+00 'SE'	36.9	1.0	65.0	2.4	949.9	93.2	856.7
227+50 'SE'	40.2	0.4	71.3	1.6	1021.2	94.8	926.4
228+00 'SE'	36.9	0.5	71.3	1.0	1092.5	95.8	996.7
228+50 'SE'	42.2	0.2	73.2	0.8	1165.7	96.7	1069.1
229+00 'SE'	46.1	0.2	81.7	0.4	1247.5	97.1	1150.4
229+50 'SE'	52.6	0.3	91.4	0.6	1338.9	97.7	1241.2
230+00 'SE'	70.8	0.2	114.3	0.6	1453.2	98.3	1354.9
230+50 'SE'	97.7	0.2	156.1	0.4	1609.2	98.7	1510.5
231+00 'SE'	62.9	0.0	148.7	0.2	1757.9	98.9	1659.1
231+50 'SE'	59.2	0.0	113.1	0.0	1871.0	98.9	1772.2
232+00 'SE'	51.4	0.0	102.5	0.0	1973.5	98.9	1874.6
232+50 'SE'	41.3	0.0	85.9	0.0	2059.4	98.9	1960.5
233+04 'SE'	41.3	0.0	83.1	0.0	2142.4	98.9	2043.6

STATION	END AREA CUT SF	END AREA FILL SF	INCREMENTAL VOLUME CUT CY	INCREMENTAL VOLUME FILL CY	CUMULATIVE VOLUME CUT CY	CUMULATIVE VOLUME FILL CY	MASS HAUL CY
STAGE 2 - 'SE1' LINE							
231+00 'SE'1	55.6	0.1					
231+50 'SE'1	37.4	0.5	86.1	0.7	86.1	0.7	85.4
232+00 'SE'1	38.4	0.9	70.2	1.6	156.3	2.3	154.0

9

9

PROJECT NO:2140-08-73	HWY: STH 181	COUNTY: MILWAUKEE	EARTHWORK - STAGE 2	SHEET 873	E

STATION	END AREA CUT SF	END AREA FILL SF	INCREMENTAL VOLUME CUT CY	INCREMENTAL VOLUME FILL CY	CUMULATIVE VOLUME CUT CY	CUMULATIVE VOLUME FILL CY	MASS HAUL CY
STAGE 3							
140+00	63.0	0.5					
140+50	66.5	2.0	119.9	2.9	119.9	2.9	117.0
141+00	62.5	1.0	119.4	3.5	239.4	6.4	233.0
141+50	66.0	0.0	119.0	1.2	358.3	7.5	350.8
142+00	63.5	0.0	119.9	0.0	478.2	7.5	470.7
142+50	62.5	3.0	116.7	3.5	594.9	11.0	583.9
143+00	62.5	2.0	115.7	5.8	710.6	16.8	693.9
143+50	65.0	1.5	118.1	4.1	828.7	20.8	807.9
144+00	72.0	1.0	126.9	2.9	955.6	23.7	931.8
144+21	72.5	2.0	56.2	1.5	1011.8	25.2	986.6
144+50	87.5	0.0	85.9	1.3	1097.7	26.5	1071.1
145+00	90.0	5.5	164.4	6.4	1262.0	32.9	1229.1
145+50	93.5	5.0	169.9	12.2	1431.9	45.0	1386.9
145+90	100.0	0.0	143.3	4.6	1575.3	49.7	1525.6
146+00	88.5	0.0	34.9	0.0	1610.2	49.7	1560.5
146+50	75.5	4.5	151.9	5.2	1762.0	54.9	1707.1
147+00	69.0	7.5	133.8	13.9	1895.8	68.8	1827.1
147+11	69.5	7.5	28.2	3.8	1924.0	72.6	1851.4
147+50	71.0	3.0	101.5	9.5	2025.5	82.1	1943.4
148+00	74.5	2.5	134.7	6.4	2160.2	88.4	2071.8
148+50	76.0	1.0	139.4	4.1	2299.6	92.5	2207.1
149+00	74.5	1.0	139.4	2.3	2438.9	94.8	2344.1
149+50	76.0	0.0	139.4	1.2	2578.3	96.0	2482.3
150+00	75.5	0.0	140.3	0.0	2718.6	96.0	2622.6
150+50	74.0	0.0	138.4	0.0	2857.0	96.0	2761.0
151+00	67.5	1.0	131.0	1.2	2988.0	97.1	2890.9
151+50	64.0	0.5	121.8	1.7	3109.8	98.9	3010.9
152+00	60.0	1.5	114.8	2.3	3224.6	101.2	3123.4
152+50	61.0	7.5	112.0	10.4	3336.6	111.6	3225.0
152+88	59.0	0.0	84.4	6.6	3421.1	118.2	3302.9
153+00	57.5	0.0	25.9	0.0	3447.0	118.2	3328.8
153+09	60.0	0.0	19.6	0.0	3466.5	118.2	3348.4
153+50	85.0	0.0	110.1	0.0	3576.6	118.2	3458.4
154+00	77.5	1.0	150.5	1.2	3727.1	119.3	3607.8
154+50	92.0	0.0	156.9	1.2	3884.0	120.5	3763.5
155+00	62.5	0.0	143.1	0.0	4027.1	120.5	3906.6
155+50	60.0	0.5	113.4	0.6	4140.5	121.1	4019.4
155+89	73.5	0.0	96.4	0.5	4236.9	121.5	4115.4
156+00	76.5	0.0	30.6	0.0	4267.5	121.5	4146.0
156+50	82.5	0.0	147.2	0.0	4414.7	121.5	4293.2
157+00	79.0	0.0	149.5	0.0	4564.3	121.5	4442.7
157+50	67.5	0.0	135.6	0.0	4699.9	121.5	4578.4
157+61	63.0	1.0	26.6	0.3	4726.5	121.8	4604.7
158+00	61.5	1.0	89.9	1.8	4816.4	123.6	4692.8
158+50	60.5	1.0	113.0	2.3	4929.4	125.9	4803.5
158+64	60.5	1.5	31.4	0.8	4960.7	126.7	4834.0
159+00	67.0	0.0	85.0	1.3	5045.7	128.0	4917.8
159+50	69.0	0.0	125.9	0.0	5171.7	128.0	5043.7
160+00	73.0	0.0	131.5	0.0	5303.1	128.0	5175.2
160+50	103.0	0.0	163.0	0.0	5466.1	128.0	5338.1
160+69	98.0	0.5	70.7	0.2	5536.8	128.2	5408.6
161+00	93.0	0.5	109.6	0.7	5646.5	128.9	5517.6
161+50	81.0	1.0	161.1	1.7	5807.6	130.6	5676.9
162+00	68.0	4.5	138.0	6.4	5945.5	137.0	5808.5
162+13	64.5	5.0	31.9	2.9	5977.4	139.9	5837.6
162+50	74.5	2.0	95.2	6.0	6072.7	145.9	5926.8
163+00	56.5	2.0	121.3	4.6	6194.0	150.5	6043.5
163+50	61.5	0.0	109.3	2.3	6303.2	152.8	6150.4
164+00	69.0	0.5	120.8	0.6	6424.1	153.4	6270.7
164+50	71.0	0.0	129.6	0.6	6553.7	154.0	6399.7
164+60	70.5	0.0	26.2	0.0	6579.9	154.0	6425.9
165+00	88.5	0.0	117.8	0.0	6697.7	154.0	6543.7
165+50	81.5	0.0	157.4	0.0	6855.1	154.0	6701.1
166+00	88.0	0.0	156.9	0.0	7012.0	154.0	6858.1
166+24	85.5	0.0	77.1	0.0	7089.1	154.0	6935.2
166+50	83.5	0.0	81.4	0.0	7170.5	154.0	7016.6
167+00	73.0	0.0	144.9	0.0	7315.4	154.0	7161.5
167+50	72.5	1.0	134.7	1.2	7450.1	155.1	7295.0
167+74	63.0	0.0	60.2	0.6	7510.4	155.7	7354.7
168+00	67.0	2.5	62.6	1.5	7573.0	157.2	7415.8
168+50	97.5	2.0	152.3	5.2	7725.3	162.4	7562.9
169+00	93.0	2.5	176.4	5.2	7901.7	167.6	7734.1
STAGE 3 (CONT.)							
169+50	69.5	5.0	150.5	8.7	8052.1	176.3	7875.9
170+00	60.0	6.5	119.9	13.3	8172.0	189.6	7982.5
170+35	57.5	5.5	76.2	9.7	8248.2	199.3	8048.9
170+50	59.5	5.0	32.5	3.6	8280.7	203.0	8077.7
171+00	64.0	5.0	114.4	11.6	8395.0	214.5	8180.5
171+50	64.0	4.0	118.5	10.4	8513.6	224.9	8288.6
172+00	67.5	3.5	121.8	8.7	8635.3	233.6	8401.7
172+50	71.0	3.5	128.2	8.1	8763.6	241.7	8521.8
173+00	119.5	4.5	176.4	9.3	8940.0	251.0	8689.0
173+50	101.5	41.5	204.6	53.2	9144.6	304.2	8840.4
174+00	66.5	0.0	155.6	48.0	9300.1	352.3	8947.9
174+12	67.0	0.0	29.7	0.0	9329.8	352.3	8977.5
174+50	71.0	0.0	97.1	0.0	9426.9	352.3	9074.7
175+00	91.5	0.5	150.5	0.6	9577.4	352.8	9224.5
175+50	85.5	1.5	163.9	2.3	9741.3	355.2	9386.1
175+77	81.0	1.5	83.3	1.9	9824.5	357.0	9467.5
176+00	68.0	1.5	63.5	1.6	9888.0	358.6	9529.4
176+50	63.5	0.0	121.8	1.7	10009.	360.4	9649.4
176+67	61.5	1.5	39.4	0.6	10049.	360.9	9688.1
177+00	62.0	0.0	75.5	1.1	10124.6	362.1	9762.5
177+27	65.5	0.0	63.8	0.0	10188.3	362.1	9826.2
177+36	62.5	0.0	21.3	0.0	10209.	362.1	9847.6
177+50	67.0	0.5	33.6	0.2	10243.	362.3	9881.0
178+00	74.5	0.0	131.0	0.6	10374.	362.8	10011.4
178+39	66.5	1.5	101.8	1.4	10476.1	364.2	10111.9
178+50	65.0	1.5	26.8	0.8	10502.	365.0	10137.9
179+00	110.5	0.0	162.5	1.7	10665.	366.7	10298.7
179+50	63.5	0.0	161.1	0.0	10826.	366.7	10459.8
180+00	92.5	1.0	144.4	1.2	10970.	367.8	10603.1
180+27	87.0	1.5	89.8	1.6	11060.7	369.4	10691.3
180+37	86.5	0.0	32.1	0.3	11092.8	369.8	10723.0
180+50	89.5	1.0	42.4	0.3	11135.2	370.1	10765.1
181+00	94.0	0.0	169.9	1.2	11305.1	371.2	10933.9
181+22	111.0	0.5	83.5	0.3	11388.6	371.5	11017.1
181+42	75.0	1.0	68.9	0.7	11457.5	372.2	11085.3
181+50	74.5	1.0	22.1	0.4	11479.6	372.5	11107.1
181+66	73.5	0.5	43.9	0.6	11523.5	373.1	11150.4
182+00	72.5	0.5	91.9	0.8	11615.4	373.9	11241.5
182+50	73.0	0.5	134.7	1.2	11750.1	375.0	11375.1
182+77	72.5	0.5	72.8	0.6	11822.9	375.7	11447.2
183+00	71.0	0.5	61.1	0.5	11884.0	376.2	11507.8
183+50	70.5	0.0	131.0	0.6	12015.0	376.8	11638.2
183+71	67.0	0.5	53.5	0.2	12068.	377.0	11691.5
184+00	67.0	0.5	72.0	0.7	12140.5	377.7	11762.8
184+10	67.0	0.5	24.8	0.2	12165.3	377.9	11787.4
184+50	88.0	0.0	114.8	0.5	12280.1	378.4	11901.7
184+75	110.0	0.0	91.7	0.0	12371.8	378.4	11993.4
185+00	81.0	0.0	88.4	0.0	12460.	378.4	12081.8
185+50	71.0	0.0	140.7	0.0	12600.	378.4	12222.5
185+76	61.0	2.5	63.6	1.5	12664.	379.9	12284.6
186+00	65.0	2.5	56.0	2.8	12720.	382.7	12337.8
186+30	135.0	0.0	111.1	1.7	12831.6	384.4	12447.2
186+50	48.0	0.0	67.8	0.0	12899.	384.4	12515.0
187+00	65.5	8.5	105.1	9.8	13004.	394.2	12610.2
187+50	63.0	9.0	119.0	20.3	13123.4	414.5	12708.9
188+00	66.5	8.0	119.9	19.7	13243.	434.2	12809.2
188+50	92.5	3.5	147.2	13.3	13390.	447.5	12943.1
189+00	85.0	2.5	164.4	6.9	13554.	454.4	13100.5
189+50	72.5	3.0	145.8	6.4	13700.	460.8	13240.0
190+00	62.5	5.0	125.0	9.3	13825.	470.0	13355.7
190+50	62.0	9.5	115.3	16.8	13941.0	486.8	13454.2
191+00	59.0	5.0	112.0	16.8	14053.1	503.6	13549.5
191+50	63.0	5.5	113.0	12.2	14166.0	515.8	13650.3
192+00	53.0	6.0	107.4	13.3	14273.	529.1	13744.4
192+50	0.0	0.0	49.1	6.9	14322.	536.0	13786.5
193+00	0.0	0.0	0.0	0.0	14322.	536.0	13786.5
193+50	0.0	0.0	0.0	0.0	14322.	536.0	13786.5
194+00	68.5	0.0	63.4	0.0	14385.	536.0	13849.9
194+50	82.5	0.0	139.8	0.0	14525.	536.0	13989.7
195+00	76.0	0.0	146.8	0.0	14672.	536.0	14136.5
195+50	70.0	1.5	135.2	1.7	14807.	537.8	14269.9
STAGE 3 (CONT.)							
196+00	66.5	1.5	126.4	3.5	14934.1	541.2	14392.9
196+50	65.5	1.0	122.2	2.9	15056.	544.1	14512.2
197+00	68.5	1.0	124.1	2.3	15180.4	546.4	14633.9
197+50	72.0	0.5	130.1	1.7	15310.5	548.2	14762.3
198+00	68.5	1.5	130.1	2.3	15440.	550.5	14890.1
198+50	66.5	1.0	125.0	2.9	15565.	553.4	15012.2
199+00	66.5	0.5	123.1	1.7	15688.	555.1	15133.6
199+50	64.0	1.0	120.8	1.7	15809.	556.9	15252.7
200+00	65.0	1.5	119.4	2.9	15929.	559.7	15369.2
200+50	66.5	1.5	121.8	3.5	16050.	563.2	15487.5
201+00	68.0	1.0	124.5	2.9	16175.3	566.1	15609.2
201+50	69.0	2.0	126.9	3.5	16302.1	569.6	15732.6
202+00	60.5	5.0	119.9	8.1	16422.	577.7	15844.4
202+50	48.0	3.0	100.5	9.3	16522.	586.9	15935.6
202+71	50.0	0.0	38.1	1.5	16560.	588.4	15972.2
203+00	60.0	2.0	59.1	1.3	16619.7	589.7	16029.9
203+50	70.5	0.0	120.8	2.3	16740.	592.1	16148.5
204+00	74.5	0.0	134.3	0.0	16874.	592.1	16282.7
204+50	78.0	0.0	141.2	0.0	17016.0	592.1	16423.9
205+00	75.5	0.0	142.1	0.0	17158.1	592.1	16566.1
205+50	72.0	0.0	136.6	0.0	17294.	592.1	16702.6
205+95	57.0	0.0	107.5	0.0	17402.	592.1	16810.1
206+00	55.0	0.0	10.4	0.0	17412.6	592.1	16820.5
206+50	101.0	0.0	144.4	0.0	17557.	592.1	16964.9
207+00	96.0	0.0	182.4	0.0	17739.	592.1	17147.4
207+50	93.0	0.0	175.0	0.0	17914.4	592.1	17322.4
208+00	96.0	0.0	175.0	0.0	18089.	592.1	17497.4
208+50	83.5	0.0	166.2	0.0	18255.	592.1	17663.6
209+00	81.5	0.0	152.8	0.0	18408.	592.1	17816.3
209+32	80.5	0.0	96.0	0.0	18504.	592.1	17912.3
209+50	80.0	0.0	53.5	0.0	18557.	592.1	17965.8
209+77	80.0	0.0	80.0	0.0	18637.	592.1	18045.8
210+00	80.5	0.0	68.4	0.0	18706.	592.1	18114.2
210+50	78.0	0.0	146.8	0.0	18853.	592.1	18261.0
210+73	76.5	0.0	65.8	0.0	18918.8	592.1	18326.8
211+00	75.0	0.0	75.8	0.0	18994.	592.1	18402.5
211+50	75.5	0.0	139.4	0.0	19133.9	592.1	18541.9
211+62	75.5	0.0	33.6	0.0	19167.5	592.1	18575.4
212+00	77.0	0.0	107.3	0.0	19274.	592.1	18682.7
212+50	88.0	0.0	152.8	0.0	19427.	592.1	18835.5
213+00	65.5	1.0	142.1	1.2	19569.	593.2	18976.5
213+50	97.0	0.5	150.5	1.7	19720.	595.0	19125.2
214+00	71.5	0.0	156.0	0.6	19876.	595.5	19280.7
214+50	68.5	0.0	129.6	0.0	20005.	595.5	19410.3
215+00	66.5	0.0	125.0	0.0	20130.	595.5	19535.3
215+50	82.5	0.0	138.0	0.0	20268.	595.5	19673.2
216+00	99.0	0.0	168.1	0.0	20436.	595.5	19841.3
216+50	76.0	0.0	162.0	0.0	20598.	595.5	20003.3
217+00	69.0	0.0	134.3	0.0	20733.	595.5	20137.6
217+50	65.5	0.0	124.5	0.0	20857.	595.5	20262.1
218+00	78.0	0.0	132.9	0.0	20990.	595.5	20395.0
218+50	85.0	0.0	150.9	0.0	21141.5	595.5	20545.9
219+00	54.5	0.0	129.2	0.0	21270.	595.5	20675.1
219+50	56.0	0.0	102.3	0.0	21372.	595.5	20777.4
220+00	61.0	0.0	108.3	0.0	21481.3	595.5	20885.7
220+50	60.5	0.0	112.5	0.0	21593.	595.5	20998.2
221+00	61.5	0.5	113.0	0.6	21706.	596.1	21110.6
221+50	70.5	4.5	122.2	5.8	21829.	601.9	21227.1
222+00	69.5	3.5	129.6	9.3	21958.	611.2	21347.4
222+50	73.0	6.5	131.9	11.6	22090.	622.7	21467.8
223+00	73.0	12.5	135.2	22.0	22225.	644.7	21581.0
223+50	78.5	13.5	140.3	30.1	22366.	674.8	21691.2
224+00	76.5	10.5	143.5	27.8	22509.	702.6	21806.9
224+50	78.0	7.5	143.1	20.8	22652.	723.4	21929.1
225+00	83.0	4.5	149.1	13.9	22801.	737.3	22064.3
225+50	81.0	6.5	151.9	12.7	22953.	750.0	22203.5
226+00	79.0	16.0	148.1	26.0	23101.6	776.1	22325.6
226+50	75.5	30.0	143.1	53.2	23244.	829.3	22415.4
227+00	72.5	6.0	137.0	41.7	23381.	871.0	22510.7
227+50	73.5	6.5	135.2	14.5	23516.	885.5	22631.5
228+00	76.0	11.0	138.4	20.3	23655.	905.7	22749.6

STATION	END AREA CUT SF	END AREA FILL SF	INCREMENTAL VOLUME CUT CY	INCREMENTAL VOLUME FILL CY	CUMULATIVE VOLUME CUT CY	CUMULATIVE VOLUME FILL CY	MASS HAUL CY
STAGE 3 (CONT.)							
228+50	77.5	9.5	142.1	23.7	23797.	929.4	22868.0
229+00	69.0	17.5	135.6	31.3	23933.	960.7	22972.4
229+50	55.0	27.0	114.8	51.5	24047.	1012.2	23035.7
230+00	39.0	38.0	87.0	75.2	24135.	1087.4	23047.6
230+50	28.5	31.5	62.5	80.4	24197.	1167.9	23029.6
231+00	31.0	20.5	55.1	60.2	24252.	1228.1	23024.5
231+25	36.0	15.5	31.0	20.8	24283.	1248.9	23034.7
231+50	40.5	15.0	35.4	17.7	24319.	1266.5	23052.5
231+75	45.5	16.0	39.8	17.9	24358.	1284.5	23074.3
232+00	0.0	0.0	21.1	9.3	24379.	1293.7	23086.2
232+25	0.0	0.0	0.0	0.0	24379.	1293.7	23086.2
232+50	0.0	0.0	0.0	0.0	24379.	1293.7	23086.2
232+75	0.0	0.0	0.0	0.0	24379.	1293.7	23086.2
233+00	0.0	0.0	0.0	0.0	24379.	1293.7	23086.2
233+25	0.0	0.0	0.0	0.0	24379.	1293.7	23086.2
233+50	0.0	0.0	0.0	0.0	24379.	1293.7	23086.2
233+75	0.0	0.0	0.0	0.0	24379.	1293.7	23086.2
234+00	0.0	0.0	0.0	0.0	24379.	1293.7	23086.2
234+25	47.5	6.5	22.0	3.8	24401.	1297.5	23104.4
234+50	46.0	7.5	43.3	8.1	24445.	1305.6	23139.6
234+75	46.0	9.0	42.6	9.5	24487.	1315.2	23172.6
235+00	46.0	8.0	42.6	9.8	24530.	1325.0	23205.4
235+25	49.5	7.0	44.2	8.7	24574.	1333.7	23240.9
235+50	53.0	5.5	47.5	7.2	24622.	1340.9	23281.1
236+00	57.0	7.0	101.9	14.5	24723.	1355.4	23368.5
236+50	64.0	3.5	112.0	12.2	24835.	1367.5	23468.4
237+00	73.0	3.0	126.9	7.5	24962.	1375.0	23587.7
237+50	74.5	3.5	136.6	7.5	25099.	1382.6	23716.8
238+00	74.0	5.0	137.5	9.8	25236.	1392.4	23844.4
238+50	76.0	5.0	138.9	11.6	25375.	1404.0	23971.7
239+00	69.0	2.5	134.3	8.7	25510.	1412.7	24097.3
239+50	50.0	6.0	110.2	9.8	25620.	1422.5	24197.7
240+00	54.0	7.0	96.3	15.0	25716.	1437.5	24278.9
240+50	51.5	7.0	97.7	16.2	25814.1	1453.8	24360.4
241+00	52.0	8.5	95.8	17.9	25910.	1471.7	24438.3
241+50	43.5	10.0	88.4	21.4	25998.	1493.1	24505.3
242+00	41.0	12.5	78.2	26.0	26076.	1519.1	24557.5
242+50	39.5	8.5	74.5	24.3	26151.2	1543.4	24607.7
243+00	41.0	8.0	74.5	19.1	26225.	1562.5	24663.2
243+50	41.5	7.0	76.4	17.4	26302.	1579.9	24722.2
244+00	47.0	8.0	81.9	17.4	26384.	1597.3	24786.8
244+50	50.0	6.5	89.8	16.8	26473.	1614.1	24859.8
245+00	79.5	2.5	119.9	10.4	26593.	1624.5	24969.3
245+50	86.0	1.0	153.2	4.1	26747.	1628.5	25118.5
246+00	89.5	0.0	162.5	1.2	26909.	1629.7	25279.8
246+50	85.0	0.0	161.6	0.0	27071.1	1629.7	25441.4
247+00	84.5	0.0	156.9	0.0	27228.	1629.7	25598.4
247+50	75.5	0.0	148.1	0.0	27376.	1629.7	25746.5
248+00	65.0	2.5	130.1	2.9	27506.	1632.6	25873.7
248+50	59.0	4.0	114.8	7.5	27621.1	1640.1	25981.0
249+00	57.5	4.5	107.9	9.8	27729.	1649.9	26079.0
249+50	61.5	6.0	110.2	12.2	27839.	1662.1	26177.1
250+00	50.0	0.0	103.2	6.9	27942.	1669.0	26273.4
250+50	72.0	0.0	113.0	0.0	28055.	1669.0	26386.3
250+55	72.0	0.0	13.3	0.0	28068.	1669.0	26399.7
251+00	80.0	0.0	126.7	0.0	28195.	1669.0	26526.3
251+50	97.0	0.0	163.9	0.0	28359.	1669.0	26690.2
252+00	107.0	0.0	188.9	0.0	28548.	1669.0	26879.1
252+42	95.0	0.0	157.1	0.0	28705.	1669.0	27036.2
252+50	94.5	0.0	28.1	0.0	28733.	1669.0	27064.3
253+00	87.0	1.5	168.1	1.7	28901.	1670.8	27230.6
253+50	71.0	1.5	146.3	3.5	29047.	1674.2	27373.4
254+00	69.5	1.0	130.1	2.9	29177.	1677.1	27500.6
254+50	69.0	2.0	128.2	3.5	29306.	1680.6	27625.4
255+00	70.5	0.5	129.2	2.9	29435.	1683.5	27751.7
255+50	72.0	0.5	131.9	1.2	29567.	1684.7	27882.5
255+84	75.5	0.0	92.9	0.4	29660.	1685.0	27974.9
256+00	75.0	0.0	44.6	0.0	29704.	1685.0	28019.5
256+50	76.0	0.0	139.8	0.0	29844.	1685.0	28159.3
257+00	94.5	0.0	157.9	0.0	30002.	1685.0	28317.2
257+35	95.5	0.0	123.1	0.0	30125.	1685.0	28440.4

STATION	END AREA CUT SF	END AREA FILL SF	INCREMENTAL VOLUME CUT CY	INCREMENTAL VOLUME FILL CY	CUMULATIVE VOLUME CUT CY	CUMULATIVE VOLUME FILL CY	MASS HAUL CY
STAGE 3 (CONT.)							
257+50	94.5	0.0	52.8	0.0	30178.	1685.0	28493.1
258+00	119.0	0.0	197.7	0.0	30375.	1685.0	28690.8
258+50	111.0	0.0	213.0	0.0	30588.	1685.0	28903.8
259+00	106.0	0.0	200.9	0.0	30789.	1685.0	29104.7
259+50	106.5	0.0	196.8	0.0	30986.	1685.0	29301.5
260+00	95.0	0.0	186.6	0.0	31173.1	1685.0	29488.0
260+50	78.0	0.0	160.2	0.0	31333.	1685.0	29648.2
261+00	68.5	0.0	135.6	0.0	31468.	1685.0	29783.9
261+50	61.0	0.0	119.9	0.0	31588.	1685.0	29903.8
261+78	56.0	1.0	60.7	0.6	31649.	1685.7	29963.8
262+00	56.0	0.5	45.6	0.8	31695.1	1686.5	30008.7
262+50	59.0	0.0	106.5	0.6	31801.6	1687.0	30114.6
263+00	65.5	0.0	115.3	0.0	31916.9	1687.0	30229.9
263+50	72.5	0.0	127.8	0.0	32044.	1687.0	30357.6
264+00	70.5	0.0	132.4	0.0	32177.1	1687.0	30490.0
264+15	73.0	0.0	39.9	0.0	32216.	1687.0	30529.9
264+50	89.0	0.0	105.0	0.0	32321.	1687.0	30634.9
265+00	94.0	0.0	169.4	0.0	32491.	1687.0	30804.3
265+50	104.5	0.0	183.8	0.0	32675.	1687.0	30988.1
266+00	103.0	0.0	192.1	0.0	32867.	1687.0	31180.3
266+50	96.5	0.0	184.7	0.0	33052.	1687.0	31365.0
267+00	96.0	0.0	178.2	0.0	33230.	1687.0	31543.2
267+50	90.0	0.0	172.2	0.0	33402.	1687.0	31715.5
268+00	90.5	0.0	167.1	0.0	33569.	1687.0	31882.6
268+50	87.0	0.0	164.4	0.0	33734.	1687.0	32046.9
269+00	77.0	0.0	151.9	0.0	33885.	1687.0	32198.8
269+50	85.5	0.0	150.5	0.0	34036.	1687.0	32349.3
269+95	81.5	0.0	139.2	0.0	34175.	1687.0	32488.4
270+00	82.0	0.0	15.1	0.0	34190.	1687.0	32503.6
270+50	98.0	0.0	166.7	0.0	34357.	1687.0	32670.2
271+00	100.5	0.0	183.8	0.0	34541.1	1687.0	32854.0
271+50	89.0	0.0	175.5	0.0	34716.	1687.0	33029.5
272+00	80.5	0.0	156.9	0.0	34873.	1687.0	33186.4
272+50	66.0	0.5	135.6	0.6	35009.	1687.6	33321.5
272+57	63.5	0.5	16.8	0.2	35025.	1687.8	33338.1
273+00	56.5	0.0	95.6	0.5	35121.5	1688.3	33433.2
273+50	61.5	0.0	109.3	0.0	35230.	1688.3	33542.4
274+00	62.0	0.0	114.4	0.0	35345.	1688.3	33656.8
274+50	55.5	0.0	108.8	0.0	35453.	1688.3	33765.6
274+73	57.0	0.0	47.9	0.0	35501.	1688.3	33813.5
275+00	60.0	0.0	58.5	0.0	35560.	1688.3	33872.0
275+50	81.5	0.0	131.0	0.0	35691.	1688.3	34003.0
276+00	83.5	0.0	152.8	0.0	35844.	1688.3	34155.8
276+50	79.5	0.0	150.9	0.0	35995.	1688.3	34306.7
276+67	89.0	0.0	53.0	0.0	36048.	1688.3	34359.8
277+00	80.5	0.0	103.6	0.0	36151.6	1688.3	34463.4
277+50	74.5	0.0	143.5	0.0	36295.	1688.3	34606.9
278+00	76.0	0.0	139.4	0.0	36434.	1688.3	34746.2
278+50	77.0	0.0	141.7	0.0	36576.	1688.3	34887.9
279+00	75.0	0.0	140.7	0.0	36716.	1688.3	35028.6
279+50	70.0	0.0	134.3	0.0	36851.	1688.3	35162.9
280+00	69.0	0.0	128.7	0.0	36979.	1688.3	35291.6
280+50	75.5	0.0	133.8	0.0	37113.7	1688.3	35425.4
281+00	72.0	0.0	136.6	0.0	37250.	1688.3	35562.0
281+50	0.0	0.0	66.7	0.0	37316.	1688.3	35628.6

STATION	END AREA CUT SF	END AREA FILL SF	INCREMENTAL VOLUME CUT CY	INCREMENTAL VOLUME FILL CY	CUMULATIVE VOLUME CUT CY	CUMULATIVE VOLUME FILL CY	MASS HAUL CY
STAGE 3 - 'SW1' LINE							
231+00 'SW1'	35.9	0.8					
231+50 'SW1'	39.3	1.2	69.6	2.3	69.6	2.3	67.3
232+00 'SW1'	37.2	2.8	70.8	4.6	140.4	6.9	133.5
232+50 'SW1'	45.1	1.4	76.2	4.7	216.5	11.6	204.9

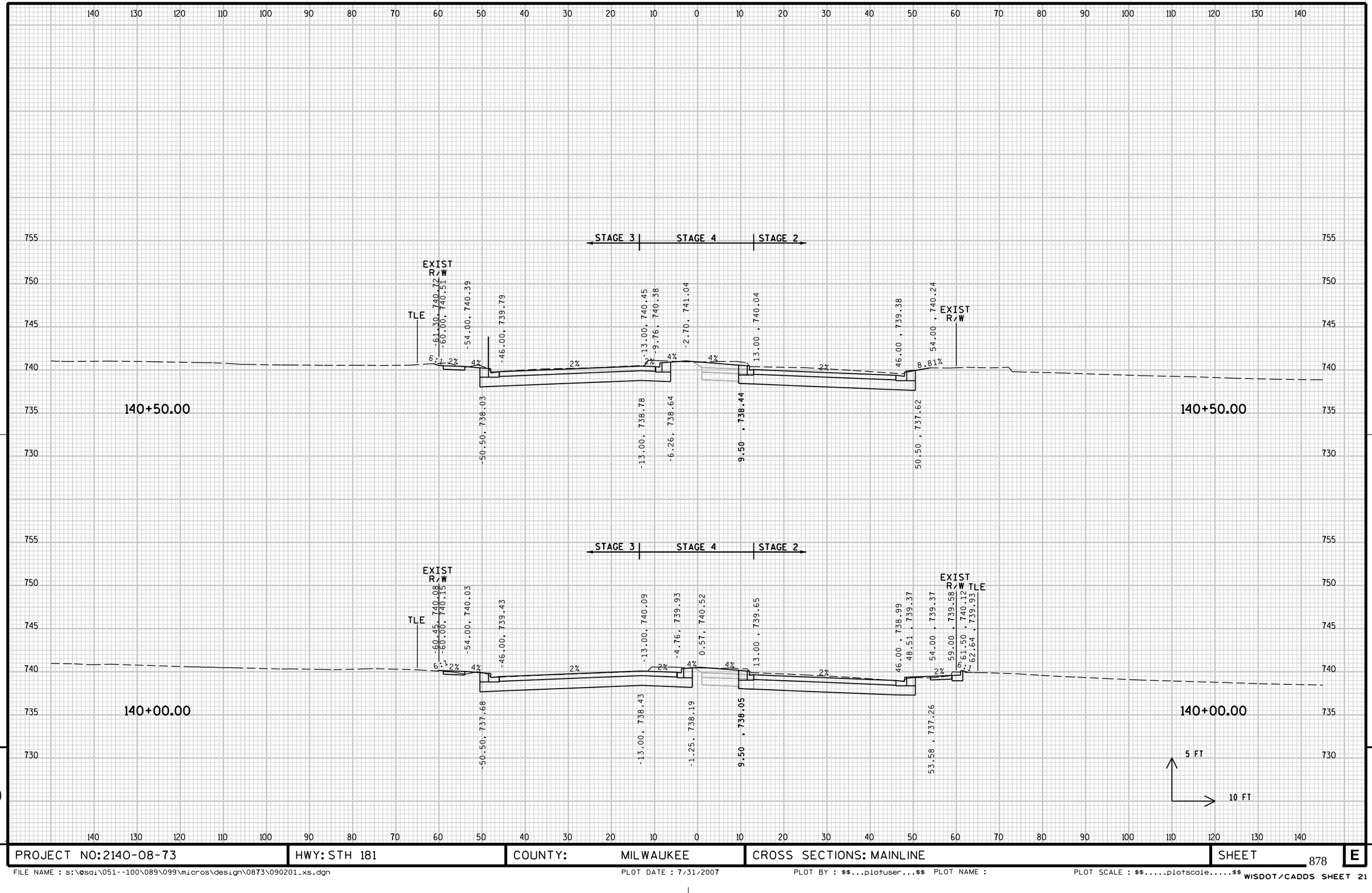
STATION	END AREA CUT SF	END AREA FILL SF	INCREMENTAL VOLUME CUT CY	INCREMENTAL VOLUME FILL CY	CUMULATIVE VOLUME CUT CY	CUMULATIVE VOLUME FILL CY	MASS HAUL CY
STAGE 3 - 'NW' LINE							
233+50 'NW'	46.4	0.0					
234+00 'NW'	51.1	0.0	90.3	0.0	90.3	0.0	90.3
234+50 'NW'	92.0	0.0	132.5	0.0	222.7	0.0	222.7
235+00 'NW'	59.9	3.2	140.6	3.7	363.4	3.7	359.7
235+50 'NW'	46.7	2.1	98.8	6.1	462.1	9.8	452.3
236+00 'NW'	43.8	1.8	83.8	4.5	545.9	14.3	531.6
236+50 'NW'	47.0	0.6	84.0	2.8	629.9	17.1	612.9
237+00 'NW'	42.5	1.7	82.9	2.6	712.8	19.7	693.1
237+50 'NW'	48.3	0.4	84.1	2.4	796.9	22.1	774.8
238+00 'NW'	48.6	0.7	89.7	1.3	886.6	23.3	863.3
238+50 'NW'	41.0	0.6	83.0	1.6	969.7	24.9	944.8
239+00 'NW'	52.7	1.3	86.8	2.2	1056.4	27.1	1029.3
239+50 'NW'	53.4	0.0	98.2	1.5	1154.6	28.6	1126.0
240+00 'NW'	55.5	0.1	100.8	0.1	1255.5	28.7	1226.8
240+50 'NW'	54.9	0.0	102.2	0.1	1357.7	28.8	1328.9
241+00 'NW'	59.1	3.2	105.6	3.7	1463.3	32.5	1430.7
241+50 'NW'	52.7	3.6	103.5	7.8	1566.8	40.3	1526.4
242+00 'NW'	40.9	6.0	86.6	11.1	1653.4	51.5	1602.0
242+50 'NW'	37.6	11.5	72.7	20.3	1726.1	71.8	1654.3
243+00 'NW'	65.0	8.1	95.0	22.8	1821.2	94.5	1726.6
243+50 'NW'	29.1	5.5	87.1	15.8	1908.3	110.3	1798.0
244+00 'NW'	24.0	7.9	49.2	15.5	1957.5	125.8	1831.6
244+50 'NW'	20.9	21.3	41.6	33.8	1999.0	159.6	1839.4

STATION	END AREA CUT SF	END AREA FILL SF	INCREMENTAL VOLUME CUT CY	INCREMENTAL VOLUME FILL CY	CUMULATIVE VOLUME CUT CY	CUMULATIVE VOLUME FILL CY	MASS HAUL CY
STAGE 3 - 'NW1' LINE							
233+50 'NW1'	55.8	0.6					
234+00 'NW1'	50.5	0.3	98.4	1.1	98.4	1.1	97.3
234+50 'NW1'	53.4	0.2	96.2	0.6	194.6	1.7	192.9

STATION	END AREA CUT SF	END AREA FILL SF	INCREMENTAL VOLUME CUT CY	INCREMENTAL VOLUME FILL CY	CUMULATIVE VOLUME CUT CY	CUMULATIVE VOLUME FILL CY	MASS HAUL CY
STAGE 3 - 'SW' LINE							
219+00 'SW'	37.6	0.0					
219+50 'SW'	40.4	0.0	72.2	0.0	72.2	0.0	72.2
220+00 'SW'	53.8	0.0	87.3	0.0	159.5	0.0	159.5
220+50 'SW'	38.2	0.2	85.2	0.2	244.7	0.2	244.5
221+00 'SW'	29.5	2.9	62.7	3.6	307.4	3.8	303.6
221+50 'SW'	21.7	8.8	47.4	13.6	354.8	17.3	337.5
222+00 'SW'	18.3	12.2	37.1	24.3	391.9	41.6	350.3
222+50 'SW'	18.3	16.8	33.9	33.6	425.8	75.2	350.6
223+00 'SW'	20.8	19.1	36.2	41.6	462.0	116.8	345.2
223+50 'SW'	19.8	21.5	37.6	47.0	499.6	163.8	335.7
224+00 'SW'	22.2	17.1	38.9	44.6	538.5	208.5	330.0
224+50 'SW'	26.4	16.8	45.0	39.2	583.4	247.7	335.8
225+00 'SW'	28.0	12.5	50.3	33.8	633.7	281.5	352.2
225+50 'SW'	28.5	11.9	52.3	28.2	686.0	309.7	376.3
226+00 'SW'	31.8	14.3	55.8	30.3	741.8	340.0	401.8
226+50 'SW'	35.5	18.7	62.3	38.1	804.1	378.1	426.0
227+00 'SW'	35.9	0.7	66.1	22.4	870.2	400.5	469.7
227+50 'SW'	37.1	0.9	67.6	1.8	937.8	402.4	535.4
228+00 'SW'	40.4	1.4	71.7	2.6	1009.5	405.0	604.5
228+50 'SW'	47.1	1.3	81.0	3.1	1090.5	408.1	682.4
229+00 'SW'	53.7	0.9	93.4	2.5	1183.9	410.5	773.3
229+50 'SW'	61.6	0.2	106.8	1.2	1290.7	411.7	879.0
230+00 'SW'	69.1	0.4	121.0	0.7	1411.7	412.4	999.3
230+50 'SW'	70.8	0.0	129.5	0.5	1541.2	412.8	1128.3
231+00 'SW'	45.0	0.0	107.2	0.0	1648.4	412.8	1235.6
231+50 'SW'	60.7	0.0	97.9	0.0	1746.3	412.8	1333.5
232+00 'SW'	68.3	0.0	119.4	0.0	1865.8	412.8	1452.9
232+50 'SW'	55.3	0.0	114.4	0.0	1980.1	412.8	1567.3

STATION	END AREA CUT SF	END AREA FILL SF	INCREMENTAL VOLUME CUT CY	INCREMENTAL VOLUME FILL CY	CUMULATIVE VOLUME CUT CY	CUMULATIVE VOLUME FILL CY	MASS HAUL CY
STAGE 4							
140+00	18.0	17.0					
140+50	20.0	8.0	35.2	28.9	35.2	28.9	6.3
141+00	15.0	11.5	32.4	22.6	67.6	51.5	16.1
141+50	15.5	24.5	28.2	41.7	95.8	93.2	2.7
142+00	16.0	26.0	29.2	58.4	125.0	151.6	-26.6
142+50	16.5	25.5	30.1	59.6	155.1	211.2	-56.1
143+00	15.5	26.5	29.6	60.2	184.7	271.4	-86.7
143+50	14.5	26.5	27.8	61.3	212.5	332.8	-120.3
144+00	3.0	16.5	16.2	49.8	228.7	382.5	-153.8
144+21	3.0	15.0	2.3	15.3	231.0	397.8	-166.8
144+50	3.0	12.0	3.2	18.1	234.3	416.0	-181.7
145+00	6.5	5.5	8.8	20.3	243.1	436.2	-193.2
145+50	6.5	5.5	12.0	12.7	255.1	448.9	-193.9
145+90	6.5	8.0	9.6	12.5	264.7	461.4	-196.7
146+00	13.5	9.0	3.7	3.9	268.4	465.4	-197.0
146+50	19.0	15.5	30.1	28.4	298.5	493.7	-195.2
147+00	18.0	16.5	34.3	37.0	332.8	530.8	-198.0
147+11	18.0	16.5	7.3	8.4	340.1	539.2	-199.1
147+50	16.0	19.5	24.6	32.5	364.7	571.7	-207.0
148+00	17.0	18.5	30.6	44.0	395.2	615.7	-220.4
148+50	14.5	18.5	29.2	42.8	424.4	658.5	-234.1
149+00	11.0	12.5	23.6	35.9	448.0	694.4	-246.4
149+50	17.0	10.0	25.9	26.0	473.9	720.4	-246.5
150+00	15.5	6.0	30.1	18.5	504.0	738.9	-234.9
150+50	14.5	4.5	27.8	12.2	531.8	751.1	-219.3
151+00	13.5	4.5	25.9	10.4	557.7	761.5	-203.8
151+50	13.5	4.0	25.0	9.8	582.7	771.3	-188.6
152+00	17.5	3.5	28.7	8.7	611.4	780.0	-168.6
152+50	21.5	5.0	36.1	9.8	647.5	789.8	-142.3
152+88	36.5	0.0	40.8	4.4	688.4	794.2	-105.9
153+00	36.0	0.0	16.1	0.0	704.5	794.2	-89.8
153+09	33.5	0.0	11.6	0.0	716.0	794.2	-78.2
153+50	0.0	1.0	25.4	0.9	741.5	795.2	-53.7
154+00	15.0	4.0	13.9	5.8	755.4	801.0	-45.6
154+50	9.5	5.5	22.7	11.0	778.1	812.0	-33.9
155+00	21.5	6.5	28.7	13.9	806.8	825.9	-19.1
155+50	21.0	14.0	39.4	23.7	846.1	849.6	-3.5
155+89	19.5	18.5	29.3	29.3	875.4	878.9	-3.6
156+00	18.5	18.5	7.7	9.4	883.1	888.4	-5.3
156+50	16.0	21.0	31.9	45.7	915.0	934.1	-19.0
157+00	14.0	23.5	27.8	51.5	942.8	985.6	-42.8
157+50	12.5	25.5	24.5	56.7	967.4	1042.3	-74.9
157+61	13.5	24.5	5.3	12.7	972.7	1055.0	-82.4
158+00	12.5	24.5	18.8	44.2	991.4	1099.3	-107.8
158+50	15.0	18.0	25.5	49.2	1016.9	1148.4	-131.6
158+64	14.5	15.0	7.6	10.7	1024.5	1159.1	-134.6
159+00	13.0	10.5	18.3	21.3	1042.9	1180.4	-137.5
159+50	11.5	10.0	22.7	23.7	1065.6	1204.1	-138.6
160+00	12.0	6.0	21.8	18.5	1087.3	1222.6	-135.3
160+50	6.5	0.0	17.1	6.9	1104.5	1229.6	-125.1
160+69	6.5	0.0	4.6	0.0	1109.0	1229.6	-120.6
161+00	0.0	0.0	3.7	0.0	1112.8	1229.6	-116.8
161+50	7.0	12.0	6.5	13.9	1119.2	1243.5	-124.2
162+00	8.0	10.5	13.9	26.0	1133.1	1269.5	-136.4
162+13	8.5	10.5	4.0	6.3	1137.1	1275.8	-138.7
162+50	9.0	15.0	12.0	21.8	1149.1	1297.7	-148.6
163+00	11.0	22.0	18.5	42.8	1167.6	1340.5	-172.9
163+50	11.5	25.0	20.8	54.4	1188.4	1394.9	-206.5
164+00	12.0	22.5	21.8	55.0	1210.2	1449.9	-239.7
164+50	12.0	24.0	22.2	53.8	1232.4	1503.7	-271.3
164+60	12.0	22.5	4.4	10.8	1236.9	1514.5	-277.6
165+00	11.5	22.5	17.4	41.7	1254.3	1556.1	-301.8
165+50	11.5	14.5	21.3	42.8	1275.6	1598.9	-323.4
166+00	11.5	8.5	21.3	26.6	1296.9	1625.6	-328.7
166+24	11.5	9.5	10.2	10.0	1307.1	1635.6	-328.5
166+50	11.5	8.0	11.1	10.5	1318.2	1646.1	-327.9
167+00	11.5	9.5	21.3	20.3	1339.5	1666.4	-326.9
167+50	45.5	0.0	52.8	11.0	1392.2	1677.3	-285.1
167+74	37.5	0.0	36.9	0.0	1429.1	1677.3	-248.2
168+00	43.5	0.0	39.0	0.0	1468.1	1677.3	-209.2
168+50	6.5	11.5	46.3	13.3	1514.4	1690.7	-176.2
STAGE 4 (CONT.)							
169+00	7.0	12.0	12.5	27.2	1526.9	1717.9	-190.9
169+50	8.0	13.5	13.9	29.5	1540.8	1747.4	-206.6
170+00	10.0	20.5	16.7	39.4	1557.5	1786.7	-229.2
170+35	12.0	25.5	14.3	37.3	1571.7	1824.0	-252.3
170+50	11.5	26.5	6.5	18.1	1578.3	1842.0	-263.8
171+00	11.5	20.0	21.3	53.8	1599.6	1895.9	-296.3
171+50	12.0	12.5	21.8	37.6	1621.3	1933.5	-312.2
172+00	11.5	8.0	21.8	23.7	1643.1	1957.2	-314.1
172+50	18.5	5.5	27.8	15.6	1670.9	1972.8	-302.0
173+00	17.5	5.5	33.3	12.7	1704.2	1985.6	-281.4
173+50	17.5	9.5	32.4	17.4	1736.6	2002.9	-266.3
174+00	28.5	0.0	42.6	11.0	1779.2	2013.9	-234.7
174+12	28.0	0.0	12.6	0.0	1791.8	2013.9	-222.2
174+50	31.0	1.5	41.5	1.3	1833.3	2015.2	-182.0
175+00	6.5	7.0	34.7	9.8	1868.0	2025.1	-157.1
175+50	6.5	5.5	12.0	14.5	1880.0	2039.5	-159.5
175+77	6.5	5.5	6.5	6.9	1886.5	2046.4	-159.9
176+00	8.0	5.5	6.2	5.9	1892.7	2052.3	-159.6
176+50	10.0	5.5	16.7	12.7	1909.4	2065.0	-155.6
176+67	10.5	5.5	6.5	4.3	1915.8	2069.3	-153.5
177+00	14.0	5.5	15.0	8.4	1930.8	2077.7	-146.9
177+27	14.0	5.5	14.0	6.9	1944.8	2084.6	-139.8
177+36	13.5	5.5	4.6	2.3	1949.4	2086.9	-137.5
177+50	13.5	5.5	7.0	3.6	1956.4	2090.5	-134.1
178+00	13.5	5.5	25.0	12.7	1981.4	2103.2	-121.8
178+39	13.5	5.5	19.5	9.9	2000.9	2113.1	-112.3
178+50	13.5	5.5	5.5	2.8	2006.4	2115.9	-109.6
179+00	68.0	0.0	75.5	6.4	2081.8	2122.3	-40.5
179+50	62.0	0.0	120.4	0.0	2202.2	2122.3	79.9
180+00	8.0	5.5	64.8	6.4	2267.0	2128.7	138.4
180+27	7.5	6.5	7.8	7.5	2274.8	2136.2	138.6
180+37	7.5	5.5	2.8	2.8	2277.6	2138.9	138.6
180+50	7.5	5.5	3.6	3.3	2281.2	2142.3	138.9
181+00	7.5	5.5	13.9	12.7	2295.1	2155.0	140.1
181+22	7.0	5.5	5.9	5.6	2301.0	2160.6	140.4
181+42	33.0	5.5	14.8	5.1	2315.8	2165.7	150.1
181+50	33.0	5.5	9.8	2.0	2325.6	2167.7	157.8
181+66	32.5	5.5	19.4	4.1	2345.0	2171.8	173.2
182+00	18.0	5.5	31.8	8.7	2376.8	2180.5	196.3
182+50	12.0	5.5	27.8	12.7	2404.5	2193.2	211.4
182+77	12.0	6.0	12.0	7.2	2416.5	2200.4	216.2
183+00	11.5	8.0	10.0	7.5	2426.5	2207.8	218.7
183+50	17.5	0.0	26.9	9.3	2453.4	2217.1	236.3
183+71	16.5	0.0	13.2	0.0	2466.6	2217.1	249.5
184+00	17.5	0.0	18.3	0.0	2484.9	2217.1	267.8
184+10	17.5	0.0	6.5	0.0	2491.4	2217.1	274.3
184+50	15.0	9.0	24.1	8.3	2515.4	2225.4	290.0
184+75	6.5	10.5	10.0	11.3	2525.4	2236.7	288.7
185+00	13.0	6.0	9.0	9.5	2534.4	2246.3	288.2
185+50	13.5	9.0	24.5	17.4	2559.0	2263.6	295.3
185+76	13.5	12.0	13.0	12.6	2572.0	2276.3	295.7
186+00	12.5	0.0	11.6	6.7	2583.5	2282.9	300.6
186+30	39.0	0.0	28.6	0.0	2612.1	2282.9	329.2
186+50	35.0	0.0	27.4	0.0	2639.5	2282.9	356.6
187+00	17.0	5.5	48.1	6.4	2687.7	2289.3	398.4
187+50	15.5	2.0	30.1	8.7	2717.8	2298.0	419.8
188+00	22.5	1.5	35.2	4.1	2753.0	2302.0	450.9
188+50	0.0	1.5	20.8	3.5	2773.8	2305.5	468.3
189+00	0.0	2.0	0.0	4.1	2773.8	2309.5	464.3
189+50	0.0	5.0	0.0	8.1	2773.8	2317.6	456.1
190+00	0.0	8.0	0.0	15.0	2773.8	2332.7	441.1
190+50	0.0	6.0	0.0	16.2	2773.8	2348.9	424.9
191+00	0.0	8.5	0.0	16.8	2773.8	2365.7	408.1
191+50	0.0	11.0	0.0	22.6	2773.8	2388.2	385.5
192+00	0.0	71.0	0.0	94.9	2773.8	2483.1	290.6
192+50	0.0	0.0	0.0	82.2	2773.8	2565.3	208.5
193+00	0.0	0.0	0.0	0.0	2773.8	2565.3	208.5
193+50	0.0	0.0	0.0	0.0	2773.8	2565.3	208.5
194+00	0.0	5.0	0.0	5.8	2773.8	2571.1	202.7
194+50	0.0	3.0	0.0	9.3	2773.8	2580.4	193.4
195+00	0.0	5.0	0.0	9.3	2773.8	2589.6	184.2
STAGE 4 (CONT.)							
195+50	0.0	4.0	0.0	10.4	2773.8	2600.0	173.7
196+00	0.0	7.0	0.0	12.7	2773.8	2612.8	161.0
196+50	0.0	5.5	0.0	14.5	2773.8	2627.2	146.5
197+00	0.0	5.0	0.0	12.2	2773.8	2639.4	134.4
197+50	0.0	2.5	0.0	8.7	2773.8	2648.1	125.7
198+00	0.0	3.0	0.0	6.4	2773.8	2654.4	119.3
198+50	0.0	2.5	0.0	6.4	2773.8	2660.8	113.0
199+00	0.0	5.5	0.0	9.3	2773.8	2670.1	103.7
199+50	0.0	4.5	0.0	11.6	2773.8	2681.6	92.1
200+00	0.0	2.5	0.0	8.1	2773.8	2689.7	84.0
200+50	0.0	2.5	0.0	5.8	2773.8	2695.5	78.3
201+00	0.0	0.0	0.0	2.9	2773.8	2698.4	75.4
201+50	2.0	0.0	1.9	0.0	2775.6	2698.4	77.2
202+00	0.0	0.5	1.9	0.6	2777.5	2699.0	78.5
202+50	42.0	0.0	38.9	0.6	2816.4	2699.6	116.8
202+71	38.5	0.0	31.3	0.0	2847.7	2699.6	148.1
203+00	0.0	10.5	20.7	7.0	2868.4	2706.6	161.7
203+50	0.0	1.5	0.0	13.9	2868.4	2720.5	147.8
204+00	35.0	2.5	32.4	4.6	2900.8	2725.2	175.6
204+50	45.0	6.5	74.1	10.4	2974.8	2735.6	239.3
205+00	45.0	5.0	83.3	13.3	3058.2	2748.9	309.3
205+50	41.5	0.0	80.1	5.8	3138.3	2754.7	383.6
205+95	52.5	0.0	78.3	0.0	3216.6	2754.7	461.9
206+00	52.5	0.0	9.7	0.0	3226.3	2754.7	471.7
206+50	22.5	2.5	69.4	2.9	3295.8	2757.6	538.2
207+00	28.5	0.0	47.2	2.9	3343.0	2760.5	582.5
207+50	26.0	0.5	50.5	0.6	3393.5	2761.0	632.4
208+00	0.0	2.5	24.1	3.5	3417.5	2764.5	653.0
208+50	0.0	6.5	0.0	10.4	3417.5	2774.9	642.6
209+00	0.0	10.0	0.0	19.1	3417.5	2794.0	623.5
209+32	0.0	7.0	0.0	12.6	3417.5	2806.6	610.9
209+50	0.0	7.5	0.0	6.0	3417.5	2812.7	604.9
209+77	0.0	6.0	0.0	8.4	3417.5	2821.1	596.4
210+00	0.0	5.0	0.0	5.9	3417.5	2826.9	590.6
210+50	0.0	4.5	0.0	11.0	3417.5	2837.9	579.6
210+73	0.0	4.5	0.0	4.8	3417.5	2842.7	574.8
211+00	0.0	5.0	0.0	5.9	3417.5	2848.7	568.9
211+50	0.0	2.0	0.0	8.1	3417.5	2856.8	560.8
211+62	0.0	2.5	0.0	1.3	3417.5	2858.0	559.5
212+00	0.0	3.5	0.0	5.3	3417.5	2863.3	554.2
212+50	0.0	1.5	0.0	5.8	3417.5	2869.1	548.4
213+00	52.0	0.0	48.1	1.7	3465.7	2870.8	594.9
213+50	28.0	1.0	74.1	1.2	3539.8	2872.0	667.8
214+00	56.0	0.0	77.8	1.2	3617.5	2873.1	744.4
214+50	55.5	0.0	103.2	0.0	3720.8	2873.1	847.6
215+00	5.0	1.5	56.0	1.7	3776.8	2874.9	901.9
215+50	4.5	6.0	8.8	8.7	3785.6	2883.6	902.0
216+00	4.0	10.5	7.9	19.1	3793.5	2902.7	890.8
216+50	4.0	3.0	7.4	15.6	3800.9	2918.3	882.6
217+00	2.5	8.5	6.0	13.3	3806.9	2931.6	875.3
217+50	3.5	13.5	5.6	25.5	3812.4	2957.0	855.4
218+00	7.0	20.5	9.7	39.4	3822.2	2996.4	825.8
218+50	6.5	15.5	12.5	41.7	3834.7	3038.1	796.6
219+00	6.0	12.5	11.6	32.4	3846.2	3070.5	775.8
219+50	7.0	11.0	12.0	27.2	3858.3	3097.7	760.6
220+00	6.5	19.0	12.5	34.7	3870.8	3132.4	738.4
220+50	5.5	24.0	11.1	49.8	3881.9	3182.2	699.7
221+00	4.0	7.0	8.8	35.9	3890.7	3218.0	672.6
221+50	0.0	2.0	3.7	10.4	3894.4	3228.5	665.9
222+00	0.0	2.5	0.0	5.2	3894.4	3233.7	660.7
222+50	0.0	4.0	0.0	7.5	3894.4	3241.2	653.2
223+00	0.0	2.5	0.0	7.5	3894.4	3248.7	645.7
223+50	0.0	3.0	0.0	6.4	3894.4	3255.1	639.3
224+00	0.0	5.0	0.0	9.3	3894.4	3264.3	630.0
224+50	0.0	4.0	0.0	10.4	3894.4	3274.8	619.6
225+00	0.0	1.0	0.0	5.8	3894.4	3280.5	613.8
225+50	0.0	2.0	0.0	3.5	3894.4	3284.0	610.4
226+00	0.0	4.0	0.0	6.9	3894.4	3291.0	603.4
226+50	0.0	5.0	0.0	10.4	3894.4	3301.4	593.0
227+00	0.0	6.0	0.0	12.7	3894.4	3314.1	580.3
227+50	0.0	1.5	0.0	8.7	3894.4	3322.8	571.6

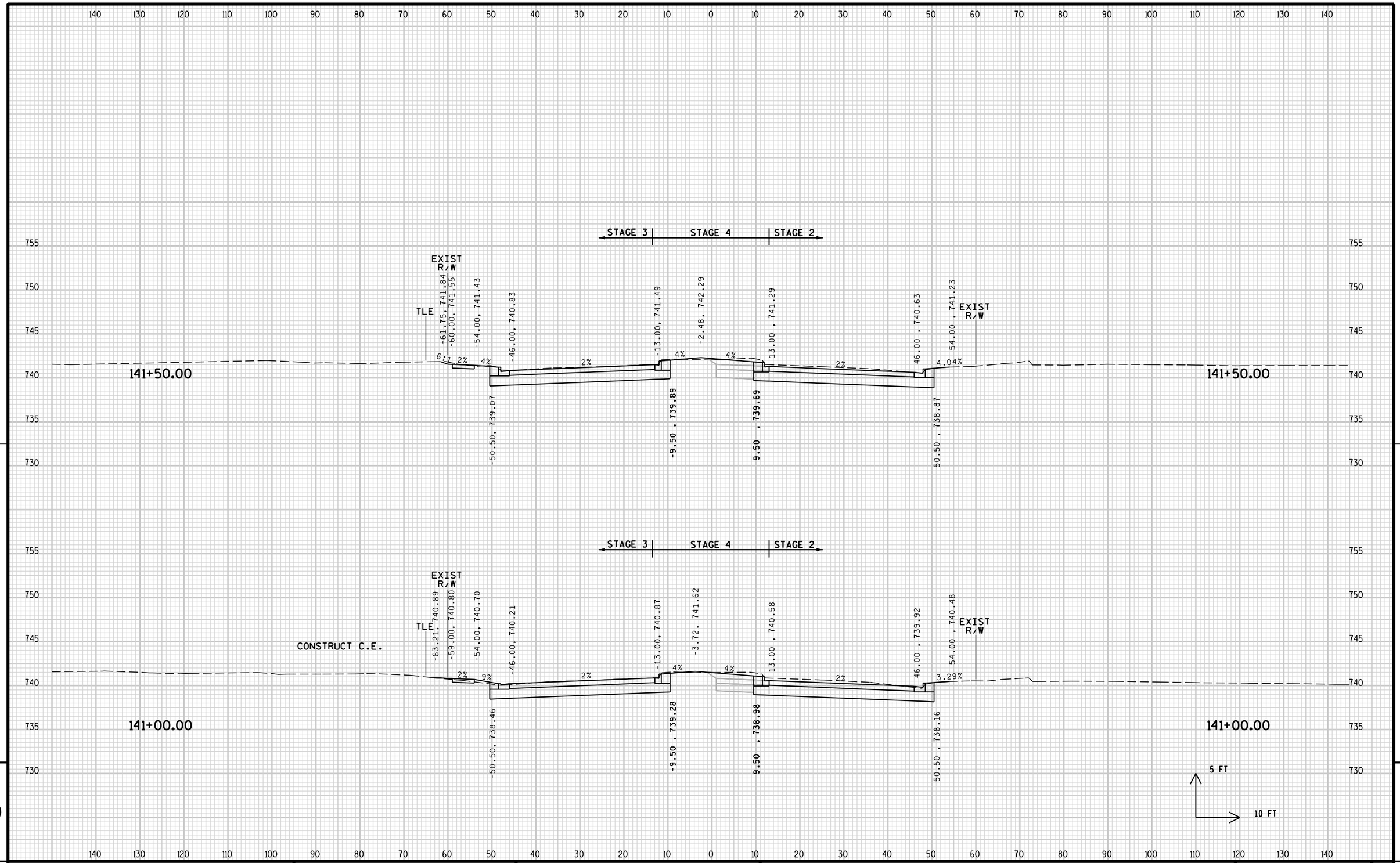
STATION	END AREA CUT SF	END AREA FILL SF	INCREMENTAL VOLUME CUT CY	INCREMENTAL VOLUME FILL CY	CUMULATIVE VOLUME CUT CY	CUMULATIVE VOLUME FILL CY	MASS HAUL CY
STAGE 4 (CONT.)							
228+00	0.0	2.5	0.0	4.6	3894.4	3327.4	567.0
228+50	0.0	6.0	0.0	9.8	3894.4	3337.3	557.1
229+00	0.0	4.0	0.0	11.6	3894.4	3348.8	545.5
229+50	0.0	9.0	0.0	15.0	3894.4	3363.9	530.5
230+00	0.0	15.5	0.0	28.4	3894.4	3392.2	502.1
230+50	0.0	18.5	0.0	39.4	3894.4	3431.6	462.8
231+00	0.0	19.0	0.0	43.4	3894.4	3475.0	419.4
231+25	0.0	21.0	0.0	23.1	3894.4	3498.1	396.2
231+50	0.0	24.5	0.0	26.3	3894.4	3524.5	369.9
231+75	0.0	26.5	0.0	29.5	3894.4	3554.0	340.4
232+00	0.0	0.0	0.0	15.3	3894.4	3569.3	325.1
232+25	0.0	0.0	0.0	0.0	3894.4	3569.3	325.1
232+50	0.0	0.0	0.0	0.0	3894.4	3569.3	325.1
232+75	0.0	0.0	0.0	0.0	3894.4	3569.3	325.1
233+00	0.0	0.0	0.0	0.0	3894.4	3569.3	325.1
233+25	0.0	0.0	0.0	0.0	3894.4	3569.3	325.1
233+50	0.0	0.0	0.0	0.0	3894.4	3569.3	325.1
233+75	0.0	0.0	0.0	0.0	3894.4	3569.3	325.1
234+00	0.0	0.0	0.0	0.0	3894.4	3569.3	325.1
234+25	0.0	16.0	0.0	9.3	3894.4	3578.6	315.8
234+50	0.0	17.5	0.0	19.4	3894.4	3598.0	296.4
234+75	0.0	16.0	0.0	19.4	3894.4	3617.3	277.0
235+00	0.0	16.0	0.0	18.5	3894.4	3635.9	258.5
235+25	0.0	16.5	0.0	18.8	3894.4	3654.7	239.7
235+50	0.0	15.5	0.0	18.5	3894.4	3673.2	221.2
236+00	0.0	13.0	0.0	33.0	3894.4	3706.2	188.2
236+50	0.0	12.5	0.0	29.5	3894.4	3735.7	158.7
237+00	0.0	7.0	0.0	22.6	3894.4	3758.3	136.1
237+50	0.0	8.5	0.0	17.9	3894.4	3776.2	118.2
238+00	0.0	5.0	0.0	15.6	3894.4	3791.8	102.6
238+50	0.0	6.5	0.0	13.3	3894.4	3805.1	89.2
239+00	0.0	8.5	0.0	17.4	3894.4	3822.5	71.9
239+50	4.0	12.0	3.7	23.7	3898.1	3846.2	51.9
240+00	10.0	28.0	13.0	46.3	3911.0	3892.5	18.5
240+50	4.5	16.5	13.4	51.5	3924.5	3944.0	-19.6
241+00	5.0	13.0	8.8	34.1	3933.3	3978.2	-44.9
241+50	6.0	20.0	10.2	38.2	3943.5	4016.4	-72.9
242+00	4.0	23.0	9.3	49.8	3952.7	4066.1	-113.4
242+50	2.0	22.5	5.6	52.7	3958.3	4118.8	-160.5
243+00	1.5	18.0	3.2	46.9	3961.5	4165.7	-204.2
243+50	1.5	18.0	2.8	41.7	3964.3	4207.3	-243.1
244+00	0.0	18.0	1.4	41.7	3965.7	4249.0	-283.3
244+50	0.0	14.5	0.0	37.6	3965.7	4286.6	-320.9
245+00	0.0	16.5	0.0	35.9	3965.7	4322.5	-356.8
245+50	0.0	14.5	0.0	35.9	3965.7	4358.4	-392.7
246+00	0.0	5.5	0.0	23.1	3965.7	4381.5	-415.9
246+50	0.0	1.5	0.0	8.1	3965.7	4389.6	-424.0
247+00	37.5	0.0	34.7	1.7	4000.4	4391.4	-391.0
247+50	50.5	0.0	81.5	0.0	4081.9	4391.4	-309.5
248+00	59.5	5.5	101.9	6.4	4183.7	4397.7	-214.0
248+50	73.0	0.0	122.7	6.4	4306.4	4404.1	-97.7
249+00	77.5	0.0	139.4	0.0	4445.8	4404.1	41.7
249+50	80.0	0.0	145.8	0.0	4591.6	4404.1	187.5
250+00	76.0	0.0	144.4	0.0	4736.0	4404.1	331.9
250+50	47.5	0.0	114.4	0.0	4850.4	4404.1	446.3
250+55	47.5	0.0	8.8	0.0	4859.2	4404.1	455.1
251+00	46.0	0.0	77.9	0.0	4937.1	4404.1	533.0
251+50	0.0	9.5	42.6	11.0	4979.7	4415.1	564.6
252+00	0.0	6.0	0.0	17.9	4979.7	4433.0	546.7
252+42	0.0	0.0	0.0	5.8	4979.7	4438.9	540.8
252+50	0.0	0.0	0.0	0.0	4979.7	4438.9	540.8
253+00	0.0	1.5	0.0	1.7	4979.7	4440.6	539.1
253+50	22.0	0.0	20.4	1.7	5000.1	4442.3	557.7
254+00	35.0	0.0	52.8	0.0	5052.9	4442.3	610.5
254+50	42.5	0.0	71.8	0.0	5124.6	4442.3	682.3
255+00	40.0	0.0	76.4	0.0	5201.0	4442.3	758.7
255+50	38.5	0.0	72.7	0.0	5273.7	4442.3	831.3
255+84	41.5	0.0	50.4	0.0	5324.1	4442.3	881.7
256+00	65.0	0.0	31.6	0.0	5355.6	4442.3	913.3
256+50	109.0	0.0	161.1	0.0	5516.7	4442.3	1074.4
257+00	0.0	0.0	100.9	0.0	5617.6	4442.3	1175.3
257+35	0.0	0.0	0.0	0.0	5617.6	4442.3	1175.3
257+50	0.0	0.0	0.0	0.0	5617.6	4442.3	1175.3
258+00	39.0	0.0	36.1	0.0	5653.8	4442.3	1211.4
258+50	23.5	0.0	57.9	0.0	5711.6	4442.3	1269.3
259+00	23.0	0.0	43.1	0.0	5754.7	4442.3	1312.3
259+50	22.5	0.0	42.1	0.0	5796.8	4442.3	1354.5
260+00	30.0	0.0	48.6	0.0	5845.4	4442.3	1403.1
260+50	45.5	0.0	69.9	0.0	5915.3	4442.3	1473.0
261+00	43.5	0.0	82.4	0.0	5997.7	4442.3	1555.4
261+50	40.0	0.0	77.3	0.0	6075.1	4442.3	1632.7
261+78	44.5	0.0	43.8	0.0	6118.9	4442.3	1676.5
262+00	40.0	0.0	34.4	0.0	6153.3	4442.3	1711.0
262+50	40.0	0.0	74.1	0.0	6227.4	4442.3	1785.0
263+00	43.5	0.0	77.3	0.0	6304.7	4442.3	1862.3
263+50	52.0	0.0	88.4	0.0	6393.1	4442.3	1950.8
264+00	46.0	0.0	90.7	0.0	6483.9	4442.3	2041.5
264+15	47.0	0.0	25.8	0.0	6509.7	4442.3	2067.3
264+50	15.5	0.0	40.5	0.0	6550.2	4442.3	2107.9
265+00	23.5	0.0	36.1	0.0	6586.3	4442.3	2144.0
265+50	11.5	0.0	32.4	0.0	6618.7	4442.3	2176.4
266+00	11.5	0.0	21.3	0.0	6640.0	4442.3	2197.7
266+50	16.5	0.0	25.9	0.0	6665.9	4442.3	2223.6
267+00	9.5	0.0	24.1	0.0	6690.0	4442.3	2247.7
267+50	16.5	0.0	24.1	0.0	6714.1	4442.3	2271.7
268+00	30.5	0.0	43.5	0.0	6757.6	4442.3	2315.3
268+50	34.0	0.0	59.7	0.0	6817.3	4442.3	2375.0
269+00	33.0	0.0	62.0	0.0	6879.4	4442.3	2437.0
269+50	30.0	1.0	58.3	1.2	6937.7	4443.5	2494.2
269+95	44.0	0.0	61.7	1.0	6999.4	4444.5	2554.8
270+00	44.0	0.0	8.1	0.0	7007.5	4444.5	2563.0
270+50	4.5	0.5	44.9	0.6	7052.4	4445.1	2607.3
271+00	10.0	0.0	13.4	0.6	7065.8	4445.7	2620.1
271+50	19.0	0.0	26.9	0.0	7092.7	4445.7	2647.0
272+00	30.5	0.0	45.8	0.0	7138.5	4445.7	2692.8
272+50	36.0	0.0	61.6	0.0	7200.1	4445.7	2754.4
272+57	37.0	0.0	9.5	0.0	7209.6	4445.7	2763.9
273+00	38.5	0.0	60.1	0.0	7269.7	4445.7	2824.0
273+50	44.0	0.0	76.4	0.0	7346.1	4445.7	2900.4
274+00	46.0	0.0	83.3	0.0	7429.4	4445.7	2983.7
274+50	43.5	0.0	82.9	0.0	7512.3	4445.7	3066.6
274+73	38.0	0.0	34.7	0.0	7547.0	4445.7	3101.3
275+00	38.0	0.0	38.0	0.0	7585.0	4445.7	3139.3
275+50	0.0	0.5	35.2	0.6	7620.2	4446.3	3173.9
276+00	0.0	0.5	0.0	1.2	7620.2	4447.4	3172.7
276+50	0.0	2.0	0.0	2.9	7620.2	4450.3	3169.9
276+67	0.0	1.5	0.0	1.4	7620.2	4451.7	3168.5
277+00	0.0	0.0	0.0	1.1	7620.2	4452.8	3167.3
277+50	0.0	1.5	0.0	1.7	7620.2	4454.6	3165.6
278+00	0.0	1.5	0.0	3.5	7620.2	4458.1	3162.1
278+50	0.0	2.0	0.0	4.1	7620.2	4462.1	3158.1
279+00	0.0	1.0	0.0	3.5	7620.2	4465.6	3154.6
279+50	0.0	5.0	0.0	6.9	7620.2	4472.5	3147.7
280+00	0.0	6.5	0.0	13.3	7620.2	4485.8	3134.3
280+50	0.0	3.5	0.0	11.6	7620.2	4497.4	3122.8
281+00	0.0	6.0	0.0	11.0	7620.2	4508.4	3111.8
281+50	12.0	0.0	11.1	6.9	7631.3	4515.3	3115.9
282+00	10.0	0.0	20.4	0.0	7651.7	4515.3	3136.3
282+50	10.0	0.0	18.5	0.0	7670.2	4515.3	3154.8
283+00	8.5	0.0	17.1	0.0	7687.3	4515.3	3172.0
283+50	13.0	0.0	19.9	0.0	7707.2	4515.3	3191.9
284+00	8.0	0.0	19.4	0.0	7726.7	4515.3	3211.3
284+50	0.0	0.0	7.4	0.0	7734.1	4515.3	3218.7



9

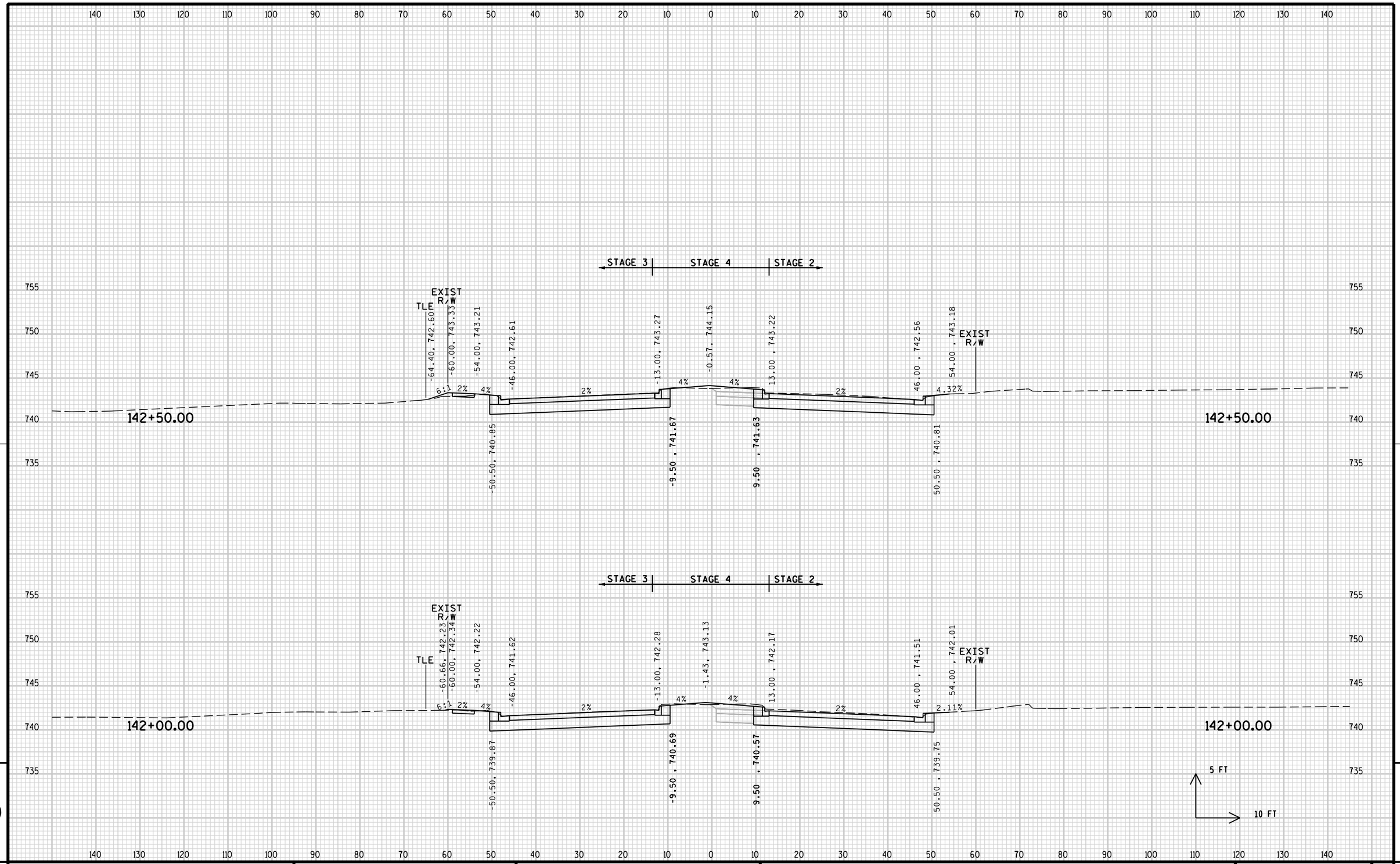
9

PROJECT NO: 2140-08-73	HWY: STH 181	COUNTY: MILWAUKEE	CROSS SECTIONS: MAINLINE	SHEET 878	E



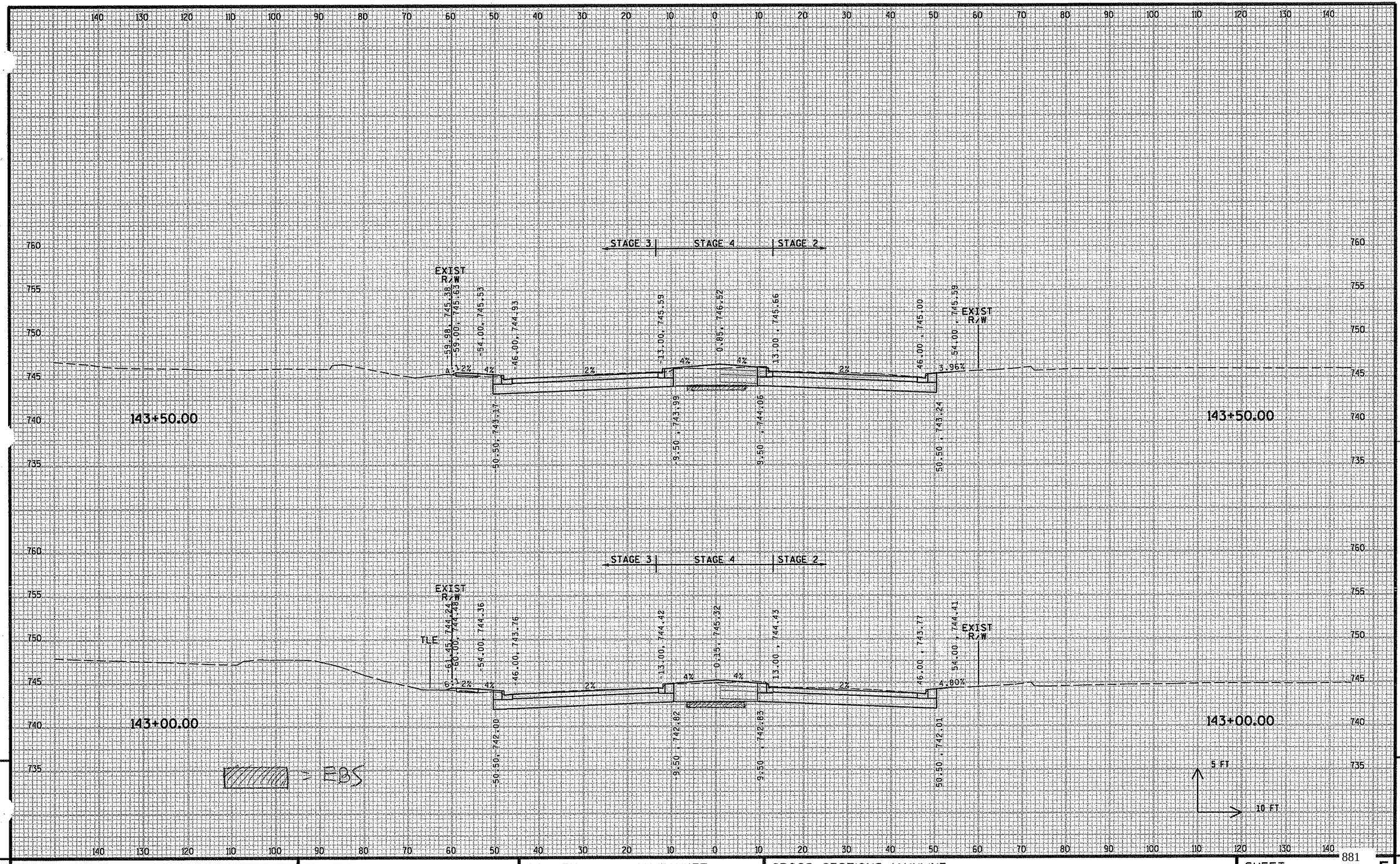
PROJECT NO:2140-08-73	HWY: STH 181	COUNTY: MILWAUKEE	CROSS SECTIONS: MAINLINE	SHEET 879	E

FILE NAME : s:\@sdi\051--100\089\099\micros\design\0873\090201_xs.dgn PLOT DATE : 7/31/2007 PLOT BY : $$...plotuser...$$ PLOT NAME : PLOT SCALE : $$.....plotscale.....$$ WISDOT/CADDS SHEET 21



PROJECT NO: 2140-08-73	HWY: STH 181	COUNTY: MILWAUKEE	CROSS SECTIONS: MAINLINE	SHEET 880	E

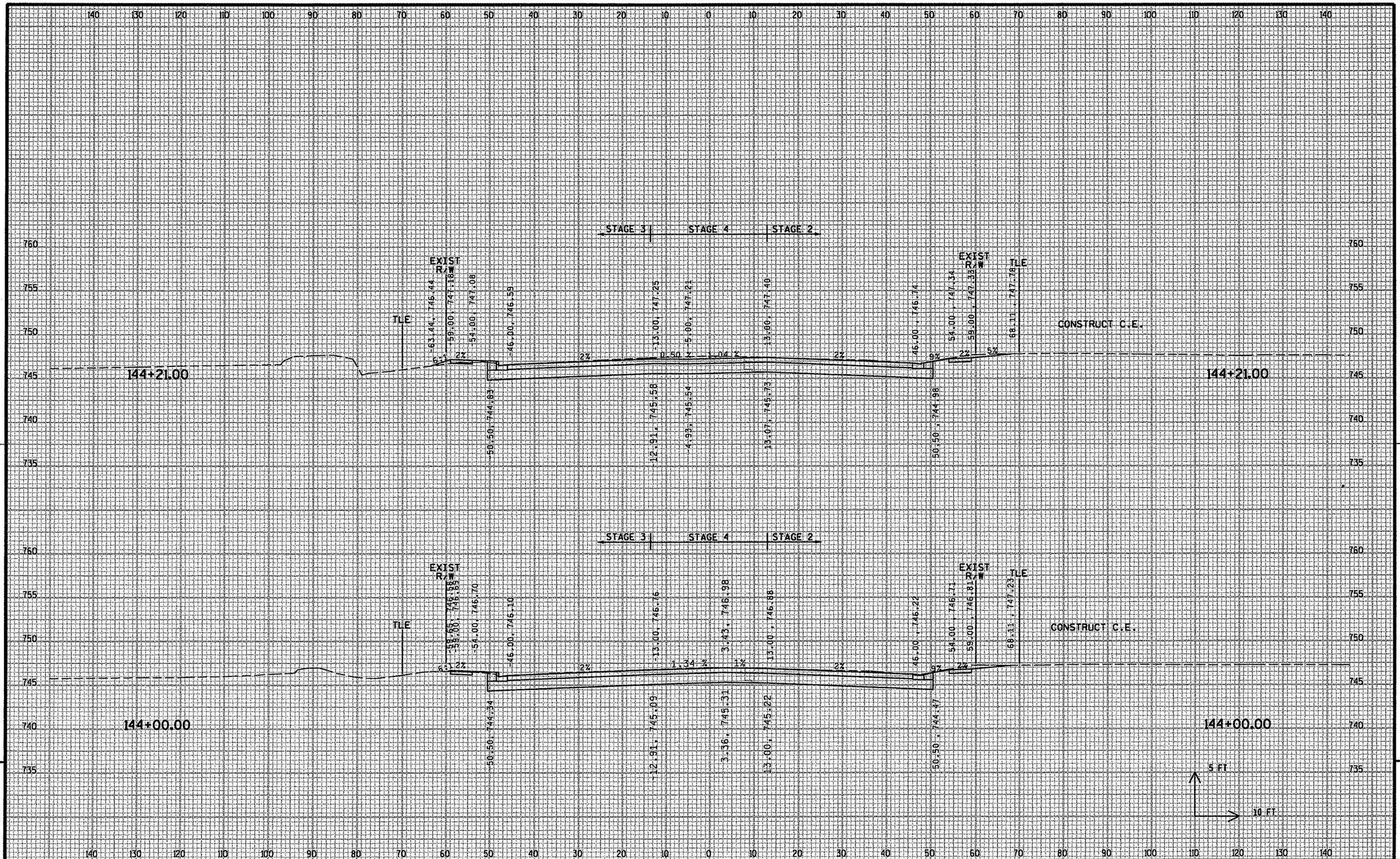
FILE NAME : s:\@sai\051--100\089\099\micros\design\0873\090201_xs.dgn PLOT DATE : 7/31/2007 PLOT BY : $$...plotuser...$$ PLOT NAME : PLOT SCALE : $$.....plotscale.....$$ WISDOT/CADDS SHEET 21



PROJECT NO:2140-08-73 | HWY: STH 181 | COUNTY: MILWAUKEE | CROSS SECTIONS: MAINLINE | SHEET 881 / 881 | E

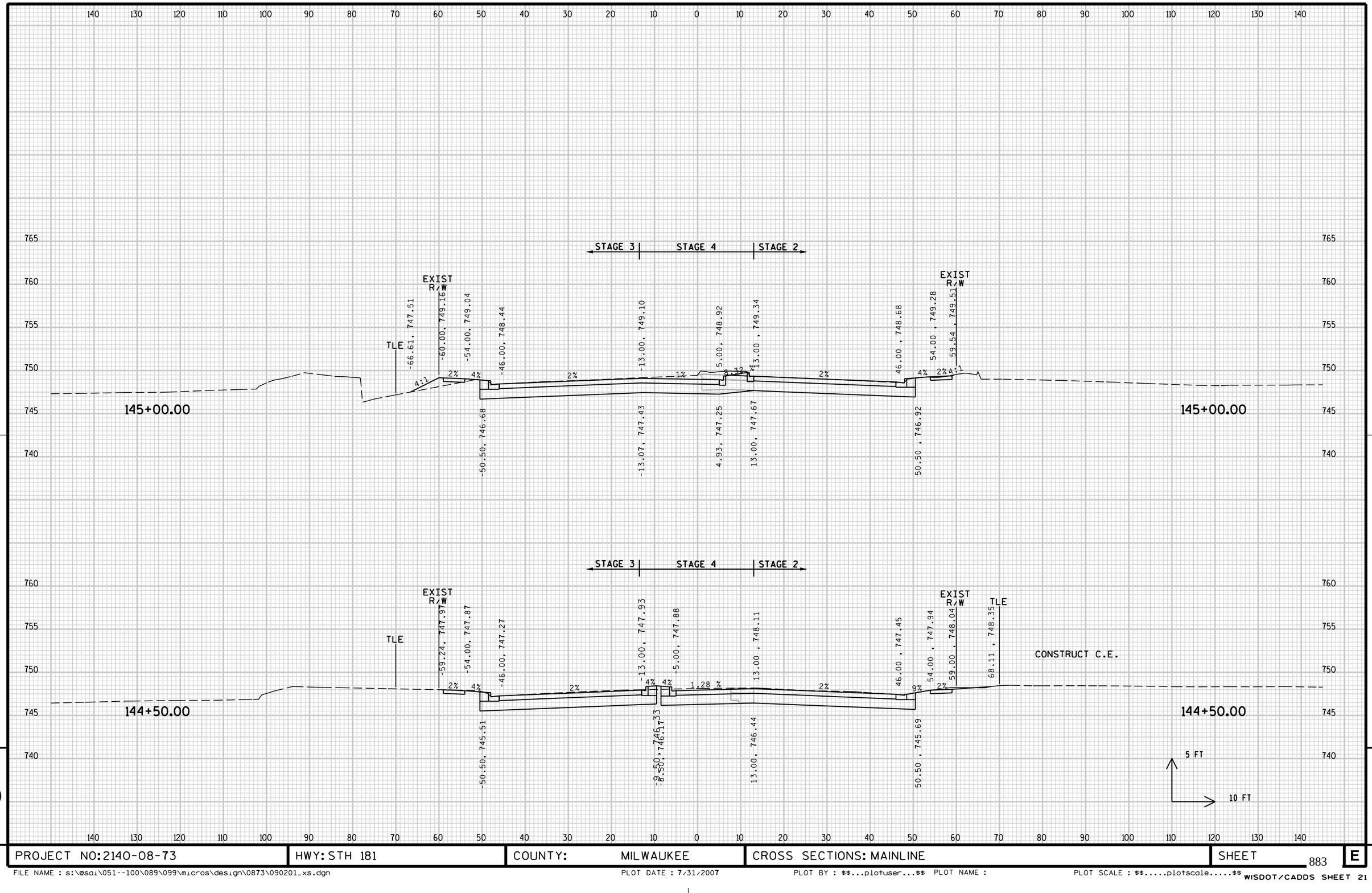
FILE NAME : s:\@sdi\051--100\089\099\micros\design\0873\090201_xs.dgn | PLOT DATE : 7/31/2007 | PLOT BY : $$...plotuser...$$ | PLOT NAME : | PLOT SCALE : $$.....plotscale.....$$ | WISDOT/CADDS SHEET 21

9



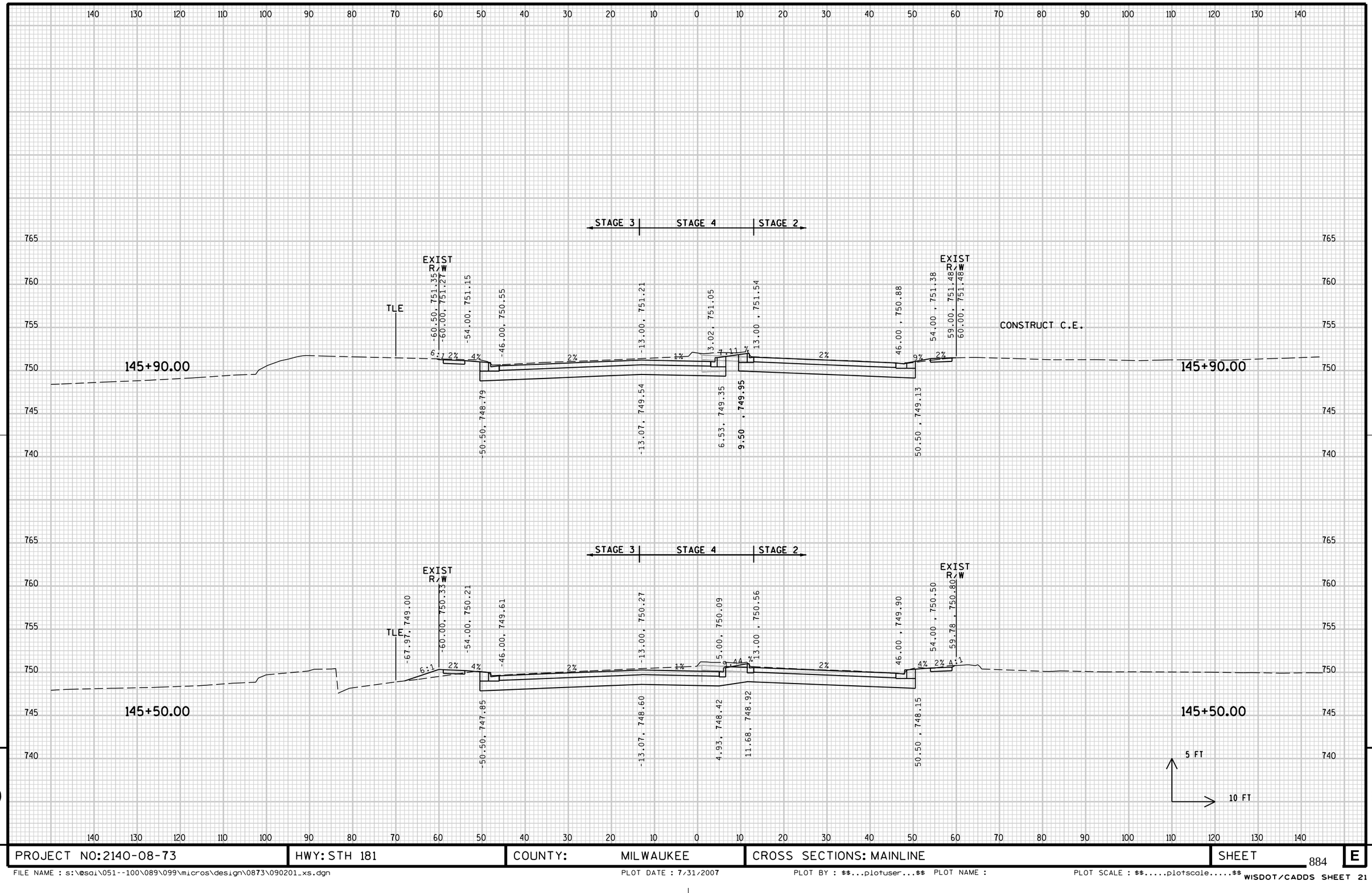
PROJECT NO:2140-08-73	HWY: STH 181	COUNTY: MILWAUKEE	CROSS SECTIONS: MAINLINE	SHEET 882 E

FILE NAME : s:\@sdi\051--100\089\099\micros\design\0873\090201_xs.dgn PLOT DATE : 7/31/2007 PLOT BY : $$...plotuser...$$ PLOT NAME : PLOT SCALE : $$.....plotscale.....$$ WISDOT/CADDS SHEET 21



PROJECT NO:2140-08-73	HWY: STH 181	COUNTY: MILWAUKEE	CROSS SECTIONS: MAINLINE	SHEET 883	E

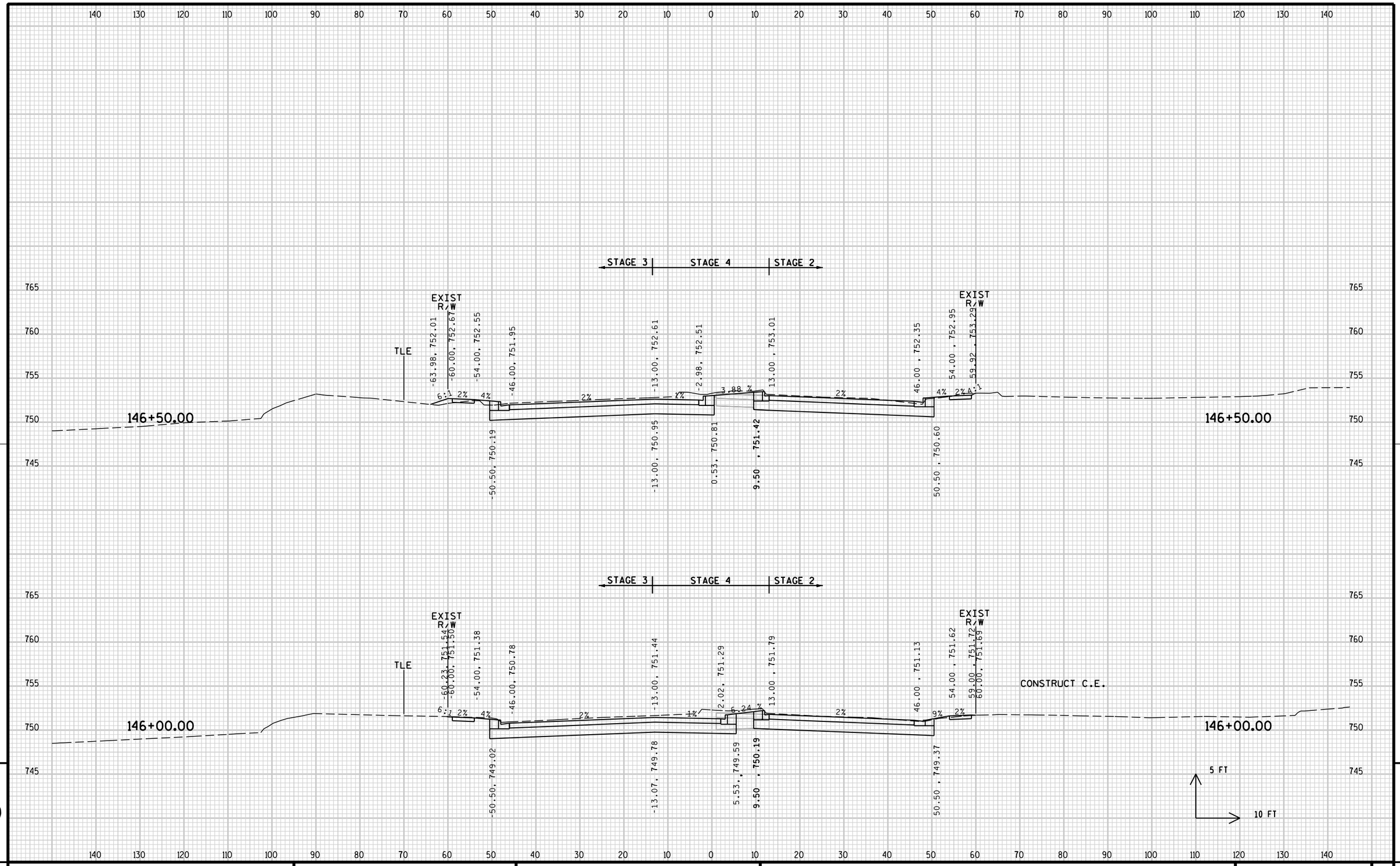
FILE NAME : s:\@sai\051--100\089\099\micros\design\0873\090201_xs.dgn PLOT DATE : 7/31/2007 PLOT BY : $$...plotuser...$$ PLOT NAME : PLOT SCALE : $$.....plotscale.....$$ WISDOT/CADDS SHEET 21



9

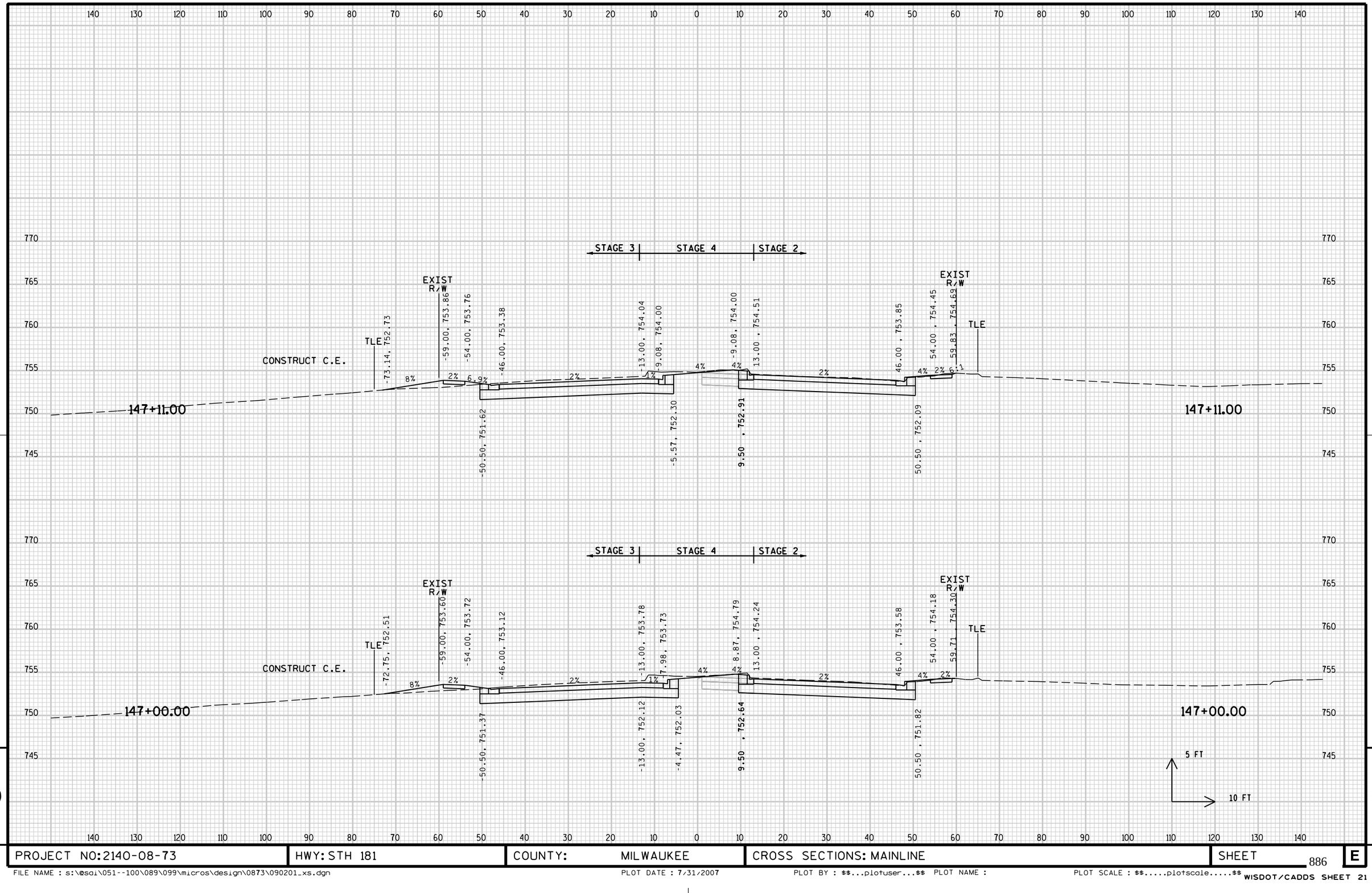
9

PROJECT NO: 2140-08-73	HWY: STH 181	COUNTY: MILWAUKEE	CROSS SECTIONS: MAINLINE	SHEET 884	E



PROJECT NO: 2140-08-73	HWY: STH 181	COUNTY: MILWAUKEE	CROSS SECTIONS: MAINLINE	SHEET 885	E

FILE NAME : s:\@sai\051--100\089\099\micros\design\0873\090201_xs.dgn PLOT DATE : 7/31/2007 PLOT BY : $$...plotuser...$$ PLOT NAME : PLOT SCALE : $$.....plotscale.....$$ WISDOT/CADDS SHEET 21



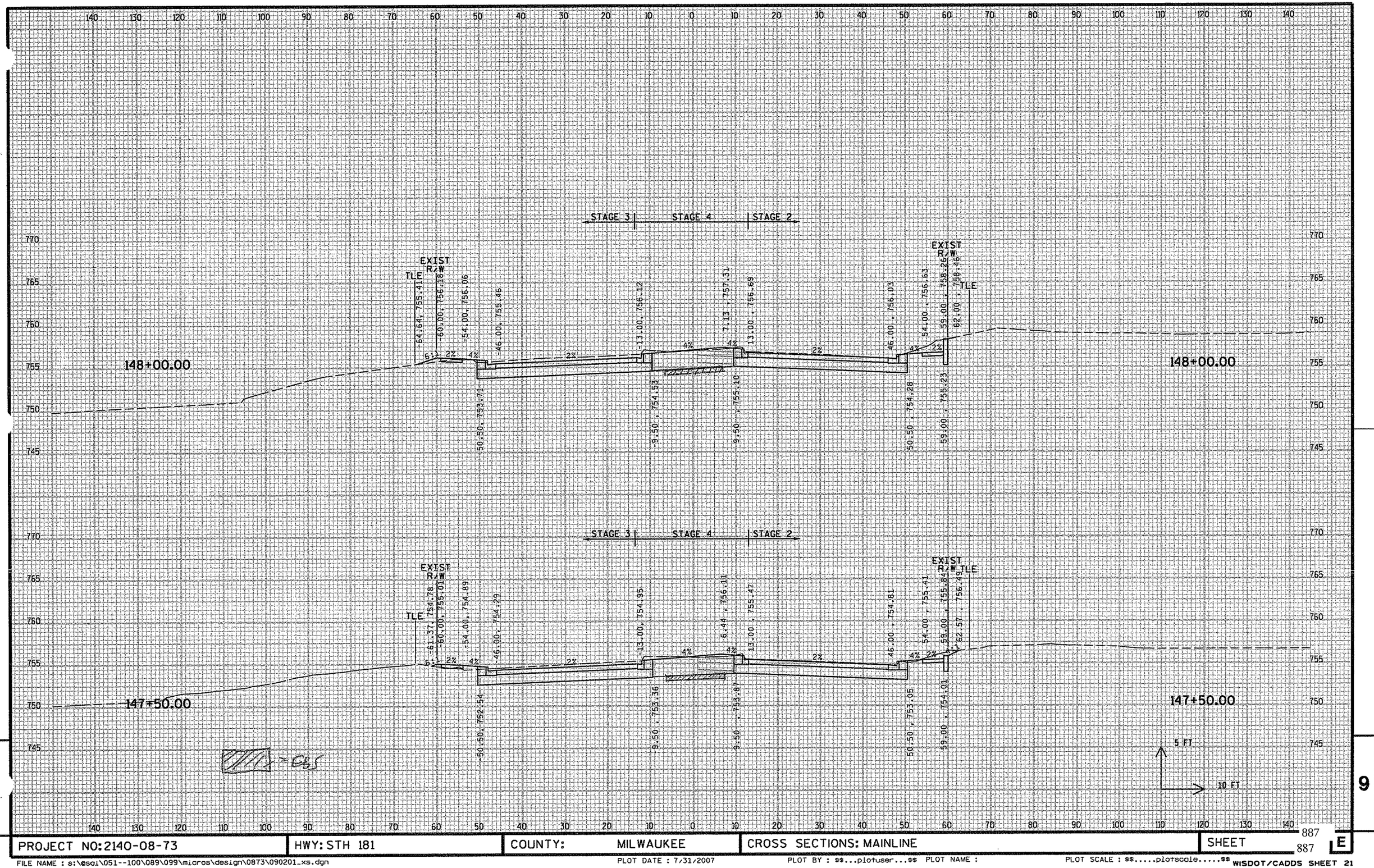
9

9

PROJECT NO: 2140-08-73	HWY: STH 181	COUNTY: MILWAUKEE	CROSS SECTIONS: MAINLINE	SHEET 886	E

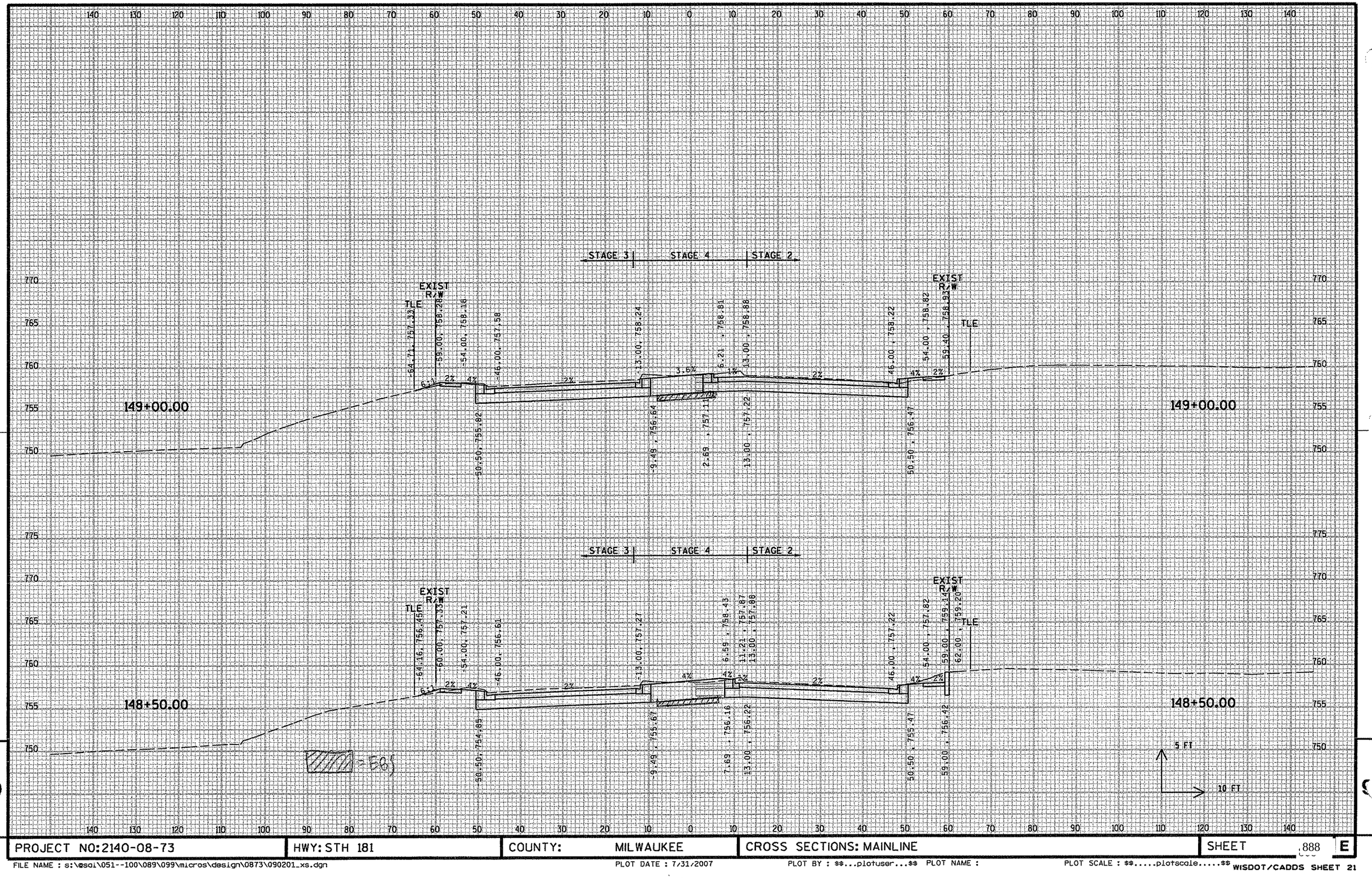
FILE NAME : s:\@sai\051--100\089\099\micros\design\0873\090201_xs.dgn PLOT DATE : 7/31/2007 PLOT BY : $$...plotuser...$$ PLOT NAME : PLOT SCALE : $$.....plotscale.....$$

WISDOT/CADDS SHEET 21



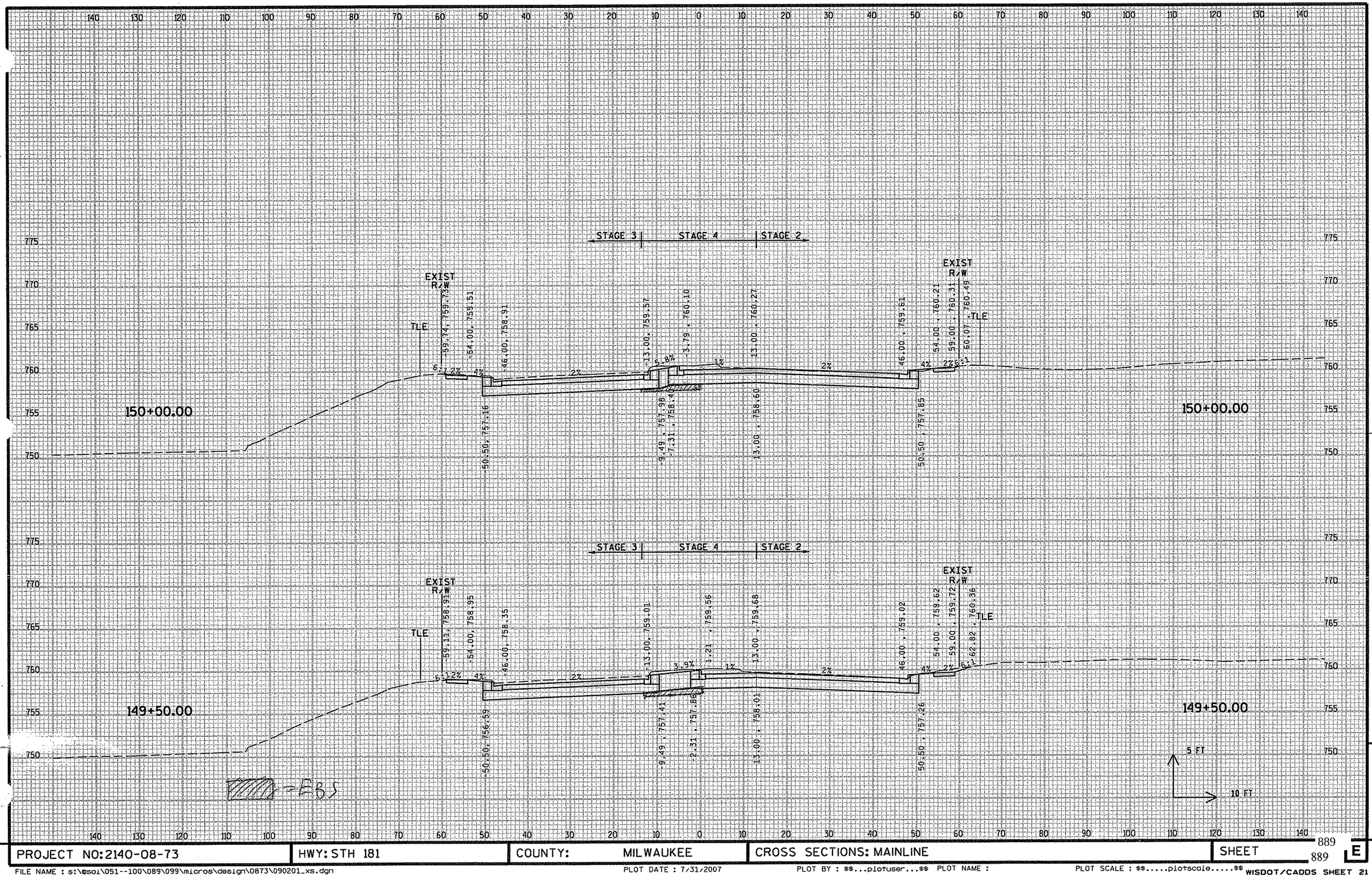
PROJECT NO:2140-08-73	HWY: STH 181	COUNTY: MILWAUKEE	CROSS SECTIONS: MAINLINE	SHEET
				887

FILE NAME : s:\@sdi\051--100\089\099\micros\design\0873\090201_xs.dgn PLOT DATE : 7/31/2007 PLOT BY : $$...plotuser...$$ PLOT NAME : PLOT SCALE : $$.....plotscale.....$$ WISDOT/CADDS SHEET 21



PROJECT NO:2140-08-73	HWY: STH 181	COUNTY: MILWAUKEE	CROSS SECTIONS: MAINLINE	SHEET 888 E

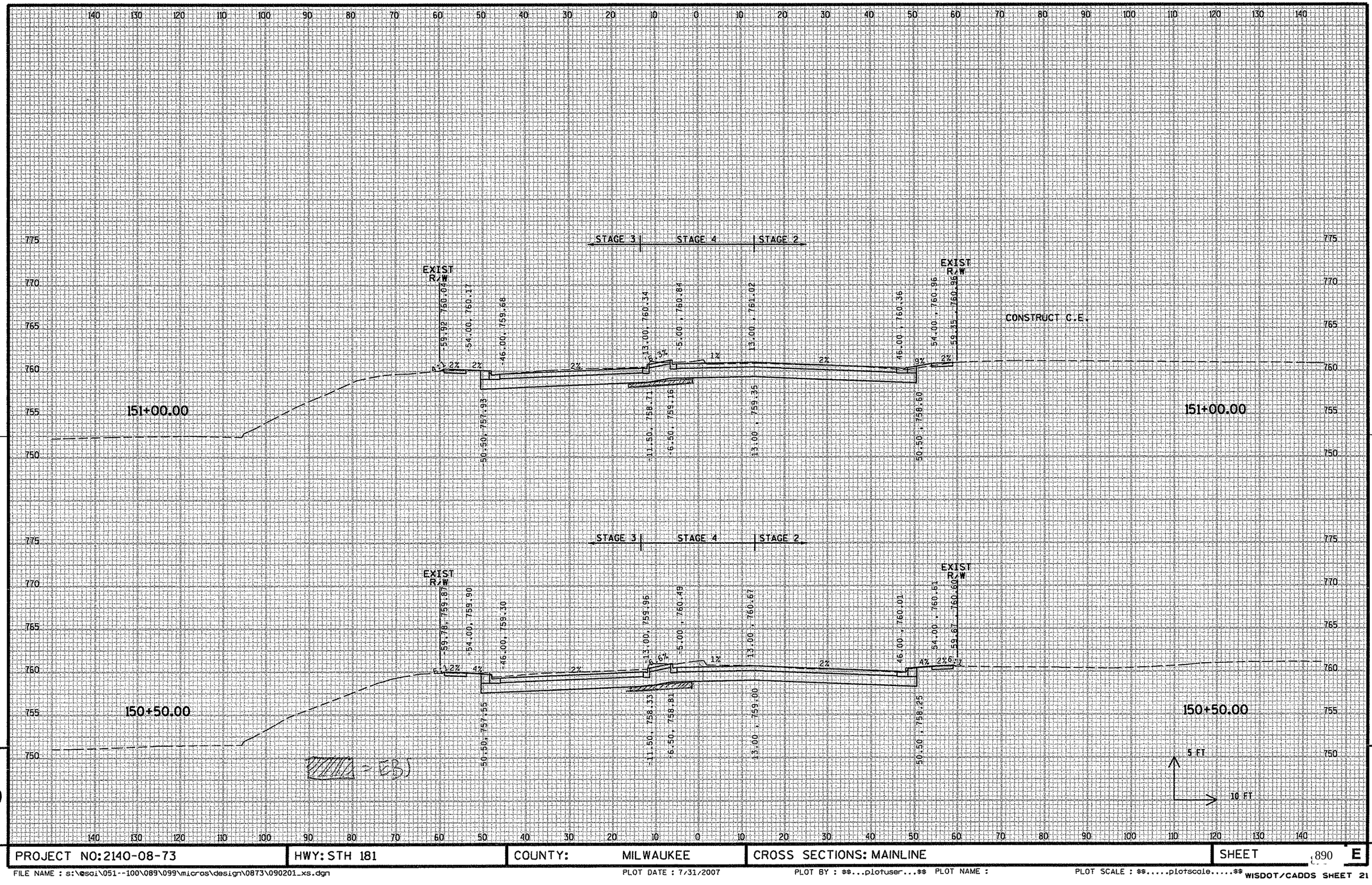
FILE NAME : s:\gsdi\051--100\089\099\micros\design\0873\090201_xs.dgn PLOT DATE : 7/31/2007 PLOT BY : $$...plotuser...$$ PLOT NAME : PLOT SCALE : $$.....plotscale.....$$ WISDOT/CADDS SHEET 21



PROJECT NO:2140-08-73	HWY: STH 181	COUNTY: MILWAUKEE	CROSS SECTIONS: MAINLINE	SHEET 889 889 E

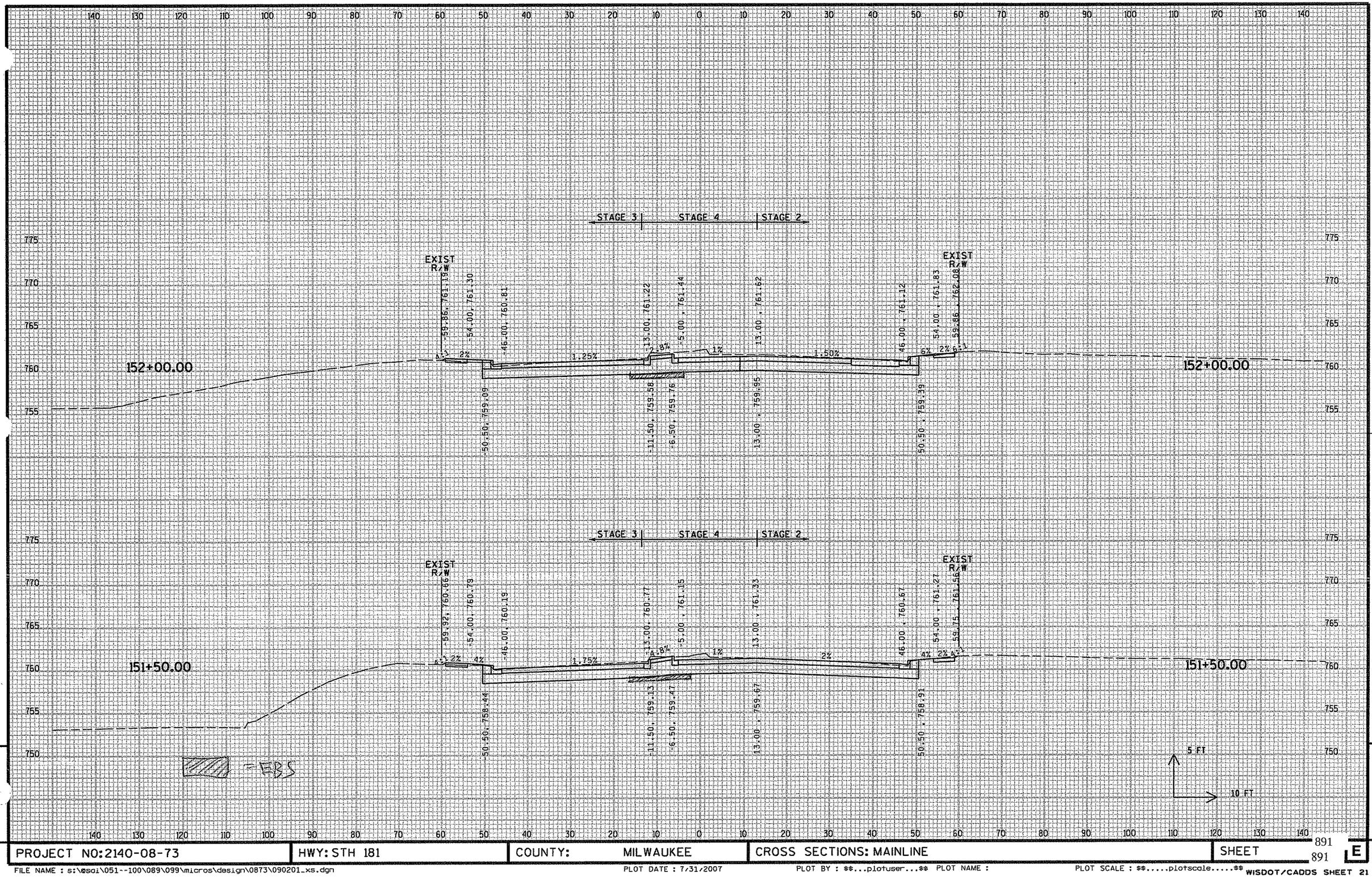
FILE NAME : s:\@sai\051--100\089\099\micros\design\0873\090201_xs.dgn PLOT DATE : 7/31/2007 PLOT BY : $$...plotuser...$$ PLOT NAME : PLOT SCALE : $$.....plotscale.....$$ WISDOT/CADDS SHEET 21

9



PROJECT NO: 2140-08-73	HWY: STH 181	COUNTY: MILWAUKEE	CROSS SECTIONS: MAINLINE	SHEET 890 E

FILE NAME : s:\@sdi\051--100\089\099\micros\design\0873\090201_xs.dgn PLOT DATE : 7/31/2007 PLOT BY : $$...plotuser...$$ PLOT NAME : PLOT SCALE : $$.....plotscale.....$$ WISDOT/CADDS SHEET 21

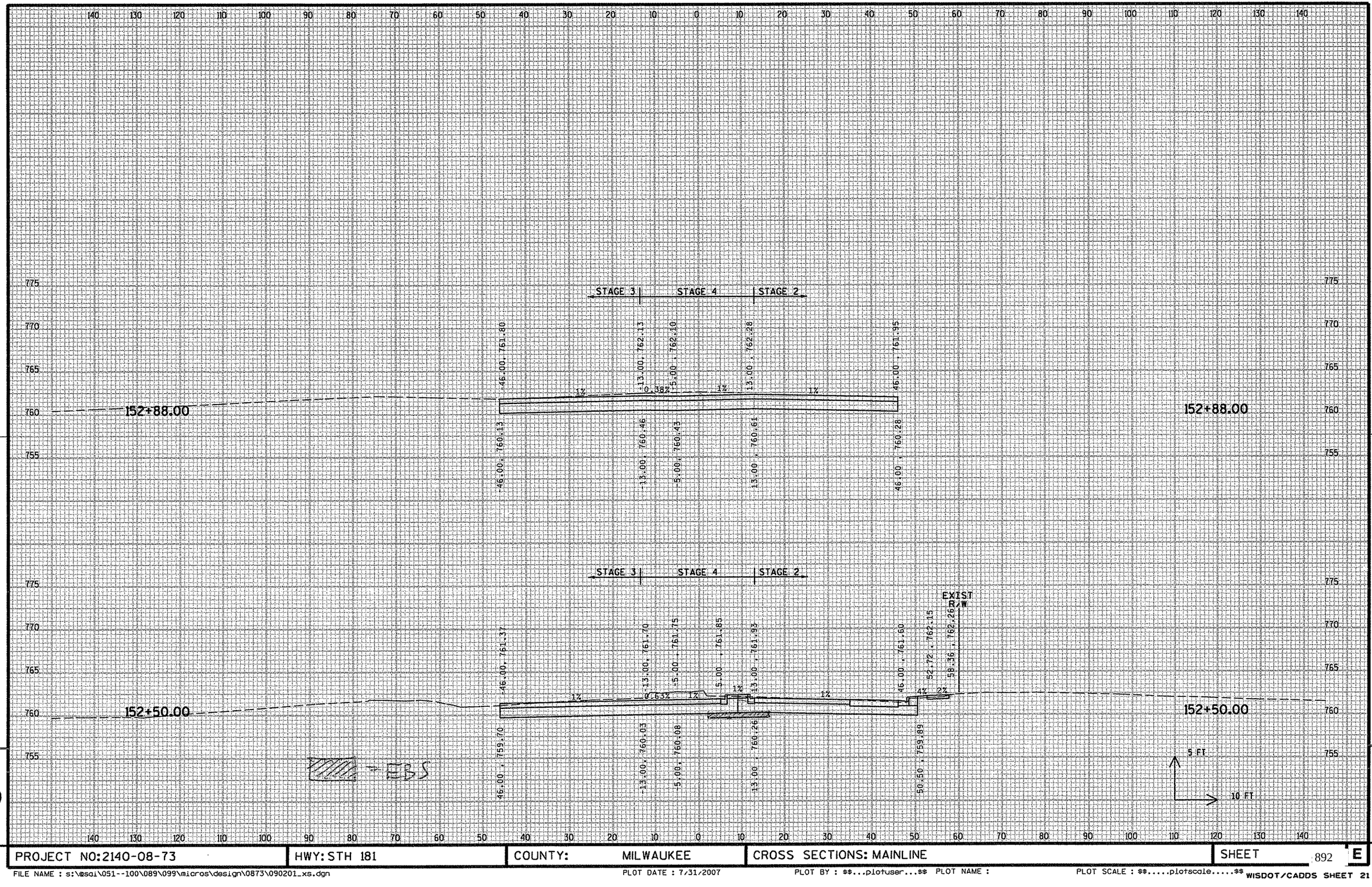


PROJECT NO:2140-08-73	HWY: STH 181	COUNTY: MILWAUKEE	CROSS SECTIONS: MAINLINE	SHEET

891
891
E

9

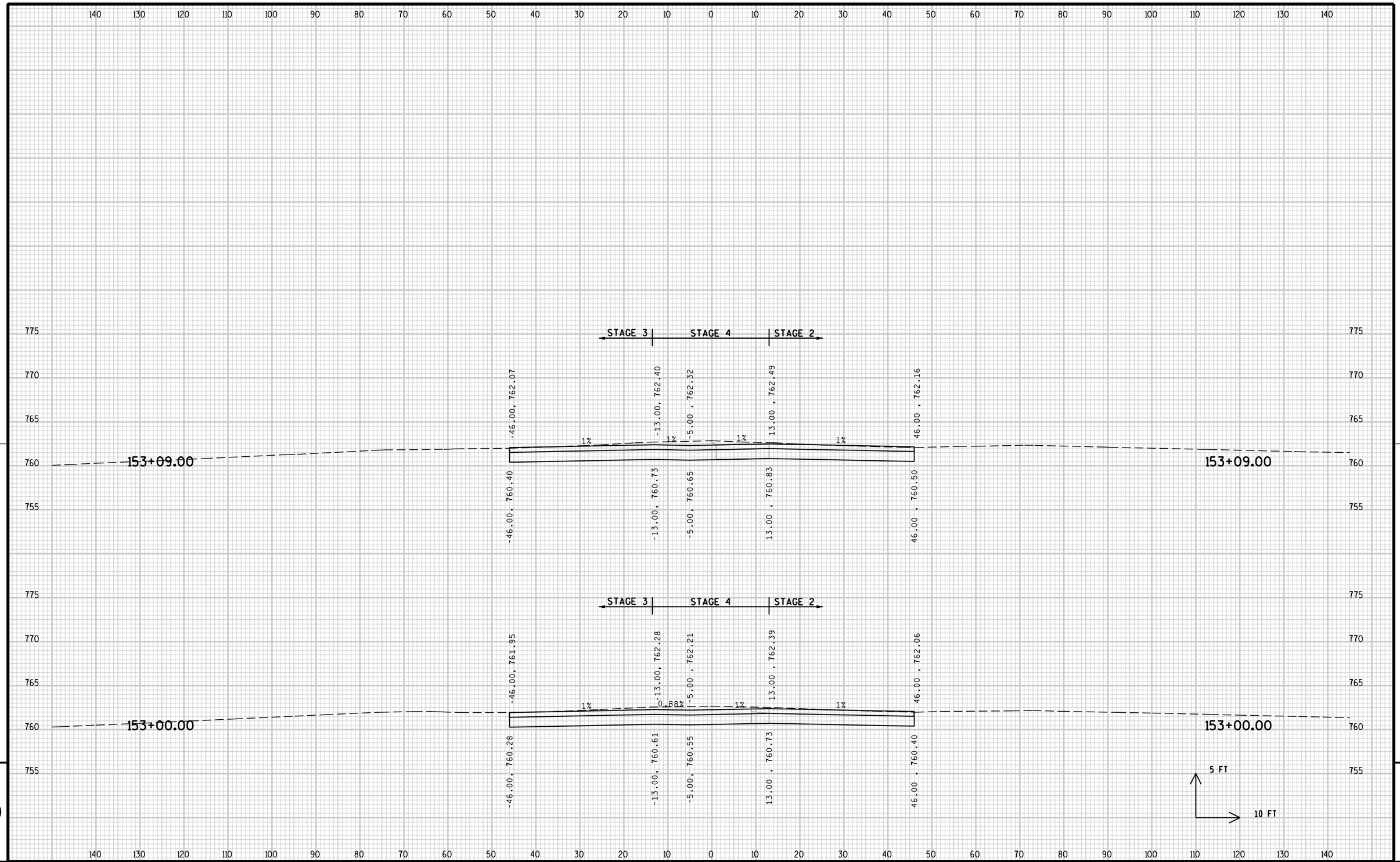
FILE NAME : s:\@soi\051--100\089\099\micros\design\0873\090201_xs.dgn PLOT DATE : 7/31/2007 PLOT BY : $$...plotuser...$$ PLOT NAME : PLOT SCALE : $$.....plotscale.....$$ WISDOT/CADDS SHEET 21



9

PROJECT NO:2140-08-73	HWY: STH 181	COUNTY: MILWAUKEE	CROSS SECTIONS: MAINLINE	SHEET 892 E

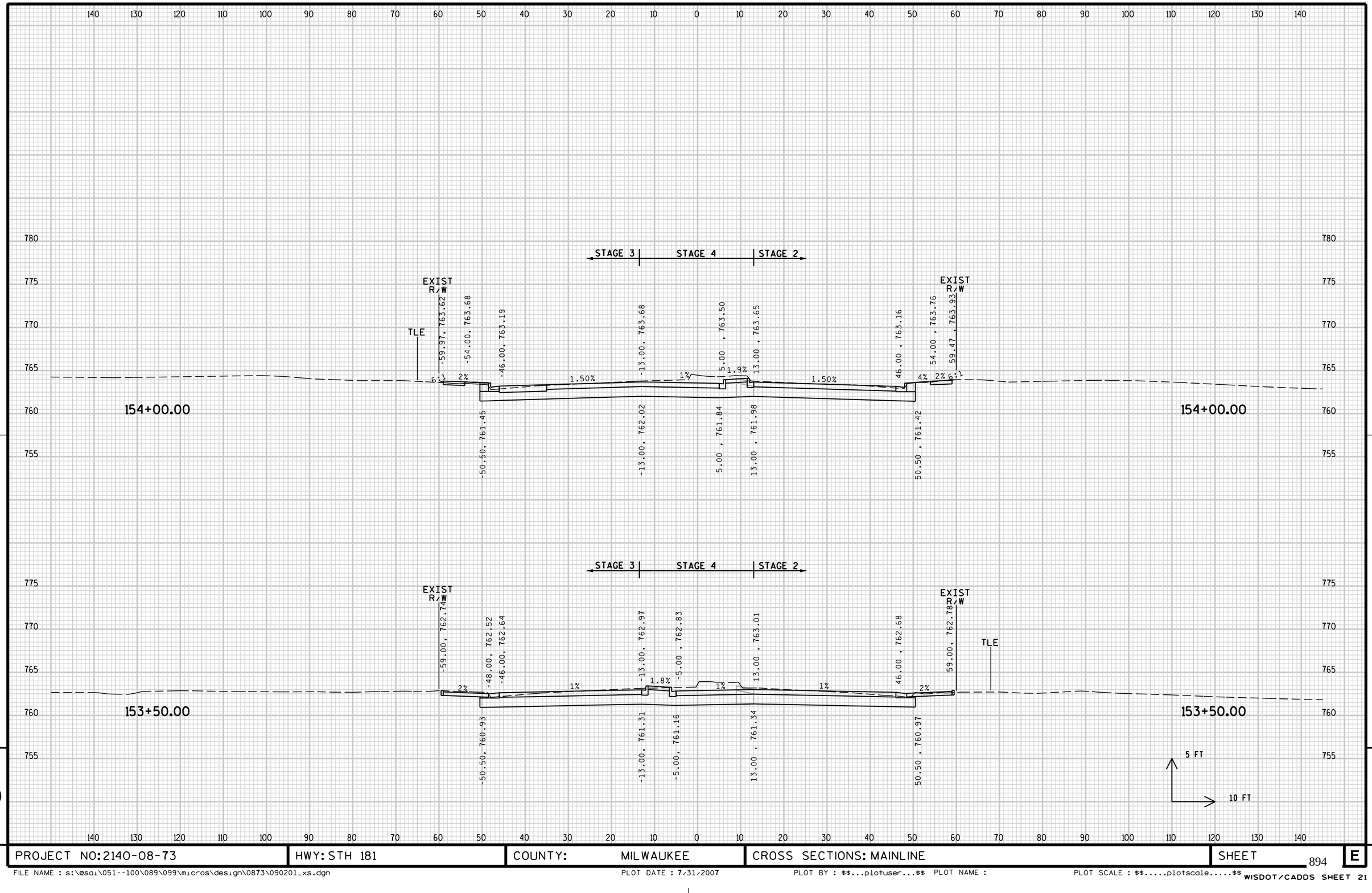
FILE NAME : s:\@sdi\051--100\089\099\micros\design\0873\090201_xs.dgn PLOT DATE : 7/31/2007 PLOT BY : $$...plotuser...$$ PLOT NAME : PLOT SCALE : $$.....plotscale.....$$ WISDOT/CADDS SHEET 21



9

9

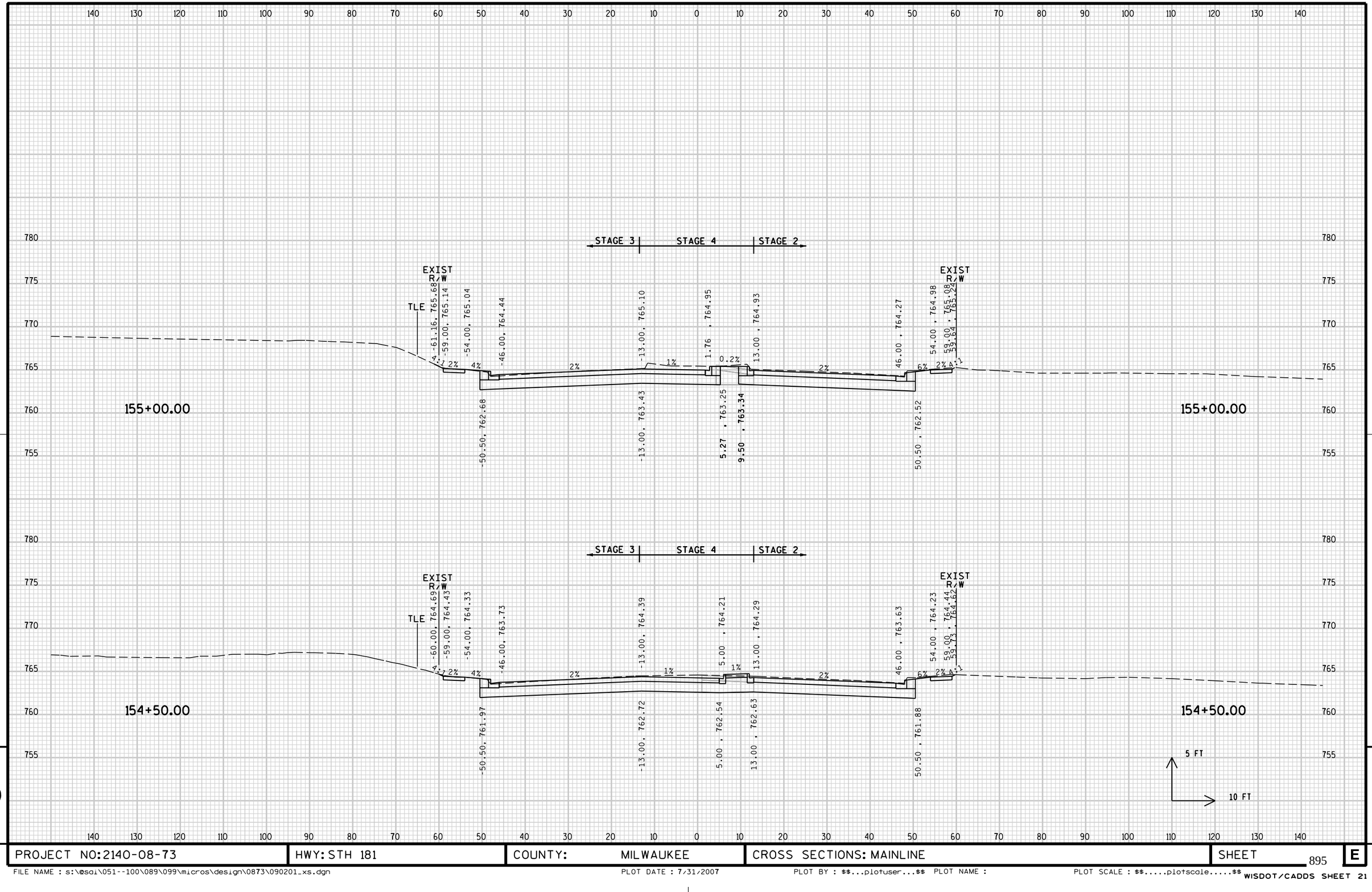
PROJECT NO: 2140-08-73	HWY: STH 181	COUNTY: MILWAUKEE	CROSS SECTIONS: MAINLINE	SHEET 893	E



PROJECT NO: 2140-08-73	HWY: STH 181	COUNTY: MILWAUKEE	CROSS SECTIONS: MAINLINE	SHEET 894	E

FILE NAME : s:\@sdi\051--100\089\099\micros\design\0873\090201_xs.dgn PLOT DATE : 7/31/2007 PLOT BY : $$...plotuser...$$ PLOT NAME : PLOT SCALE : $$.....plotscale.....$$

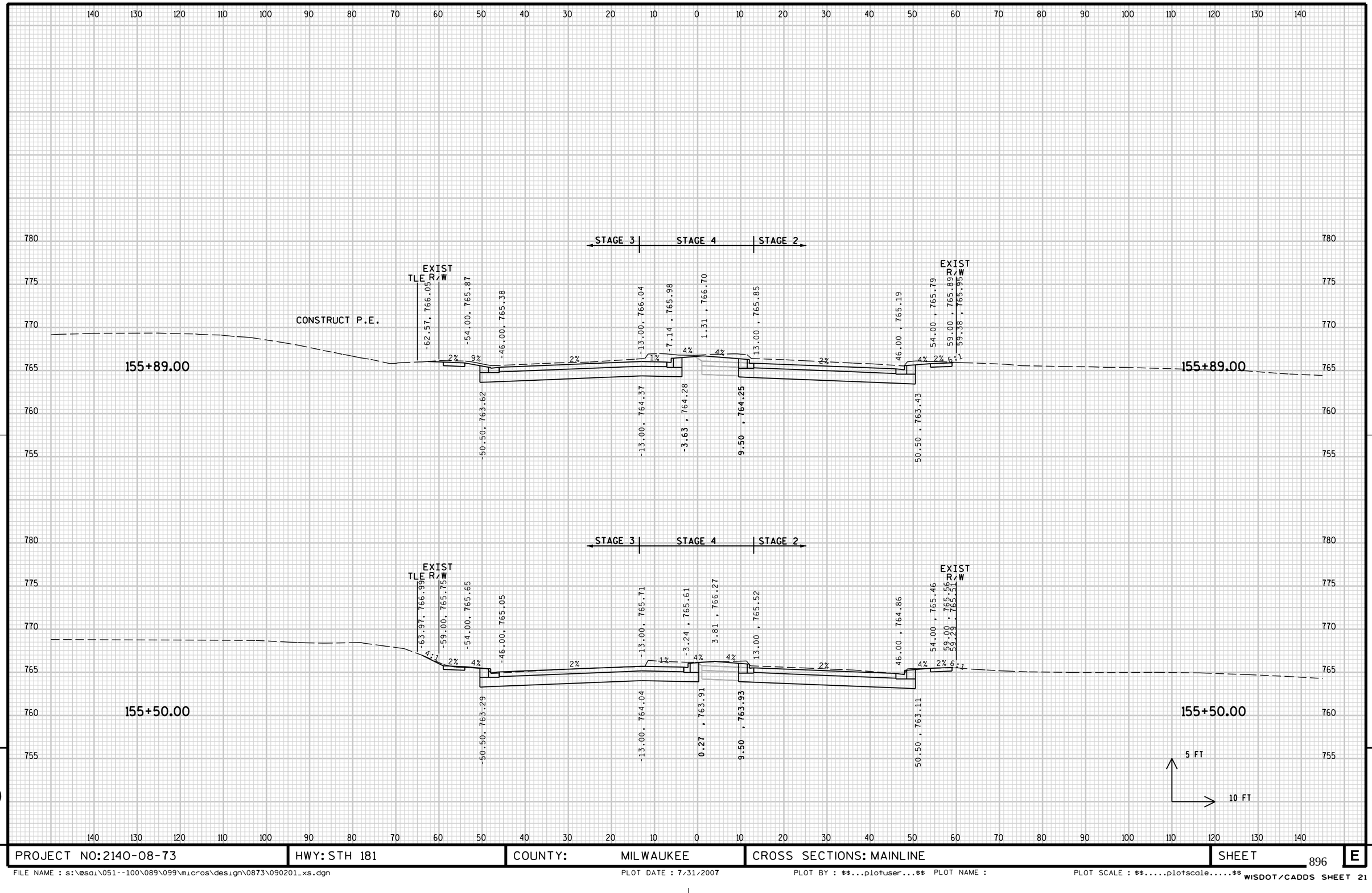
WISDOT/CADDS SHEET 21



PROJECT NO: 2140-08-73	HWY: STH 181	COUNTY: MILWAUKEE	CROSS SECTIONS: MAINLINE	SHEET 895	E

FILE NAME : s:\@sdi\051--100\089\099\micros\design\0873\090201_xs.dgn PLOT DATE : 7/31/2007 PLOT BY : $$...plotuser...$$ PLOT NAME : PLOT SCALE : $$.....plotscale.....$$

WISDOT/CADDS SHEET 21

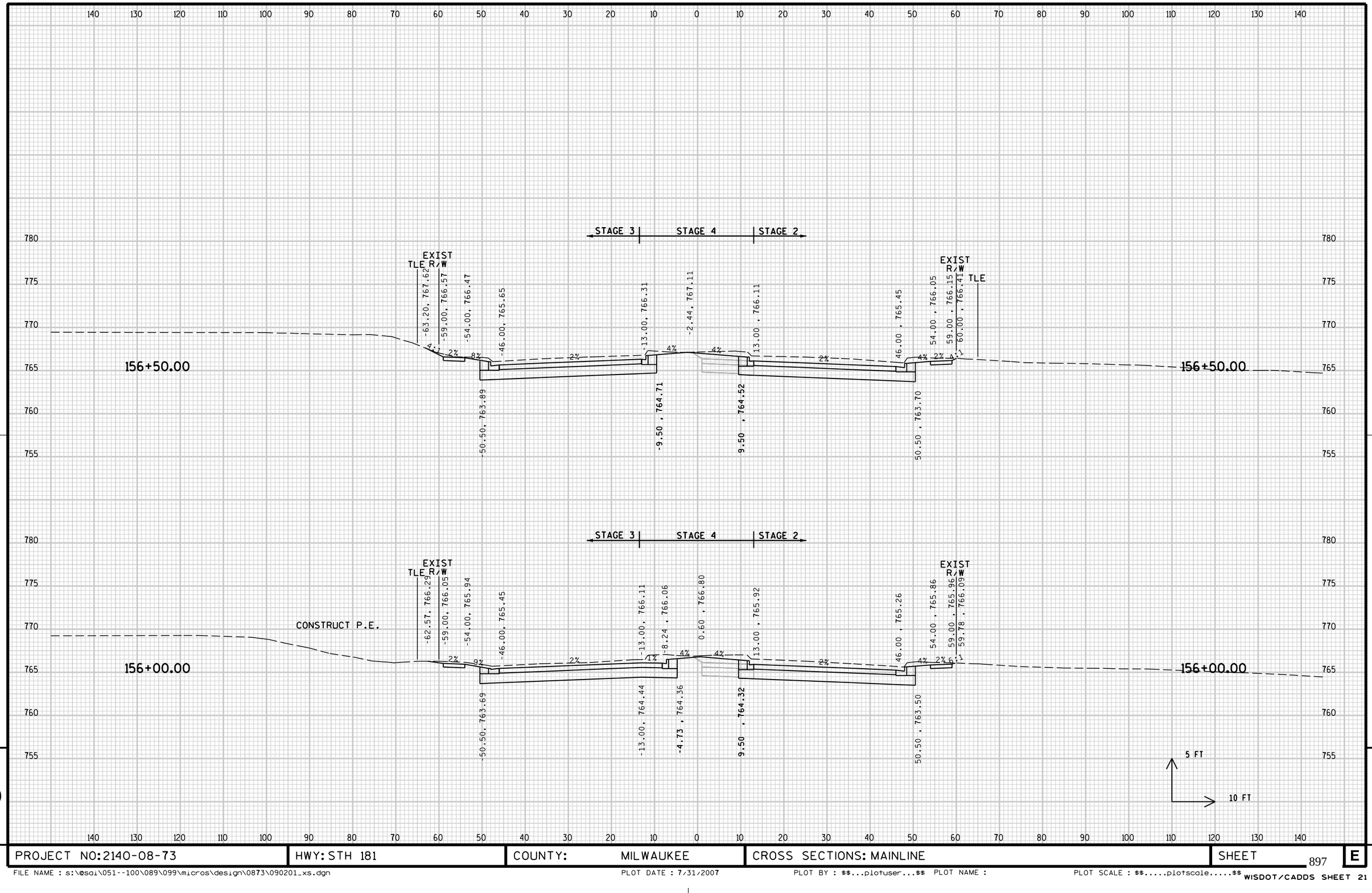


9

9

PROJECT NO: 2140-08-73	HWY: STH 181	COUNTY: MILWAUKEE	CROSS SECTIONS: MAINLINE	SHEET	E

FILE NAME : s:\@sdi\051--100\089\099\micros\design\0873\090201_xs.dgn PLOT DATE : 7/31/2007 PLOT BY : $$...plotuser...$$ PLOT NAME : PLOT SCALE : $$.....plotscale.....$$ WISDOT/CADDS SHEET 21

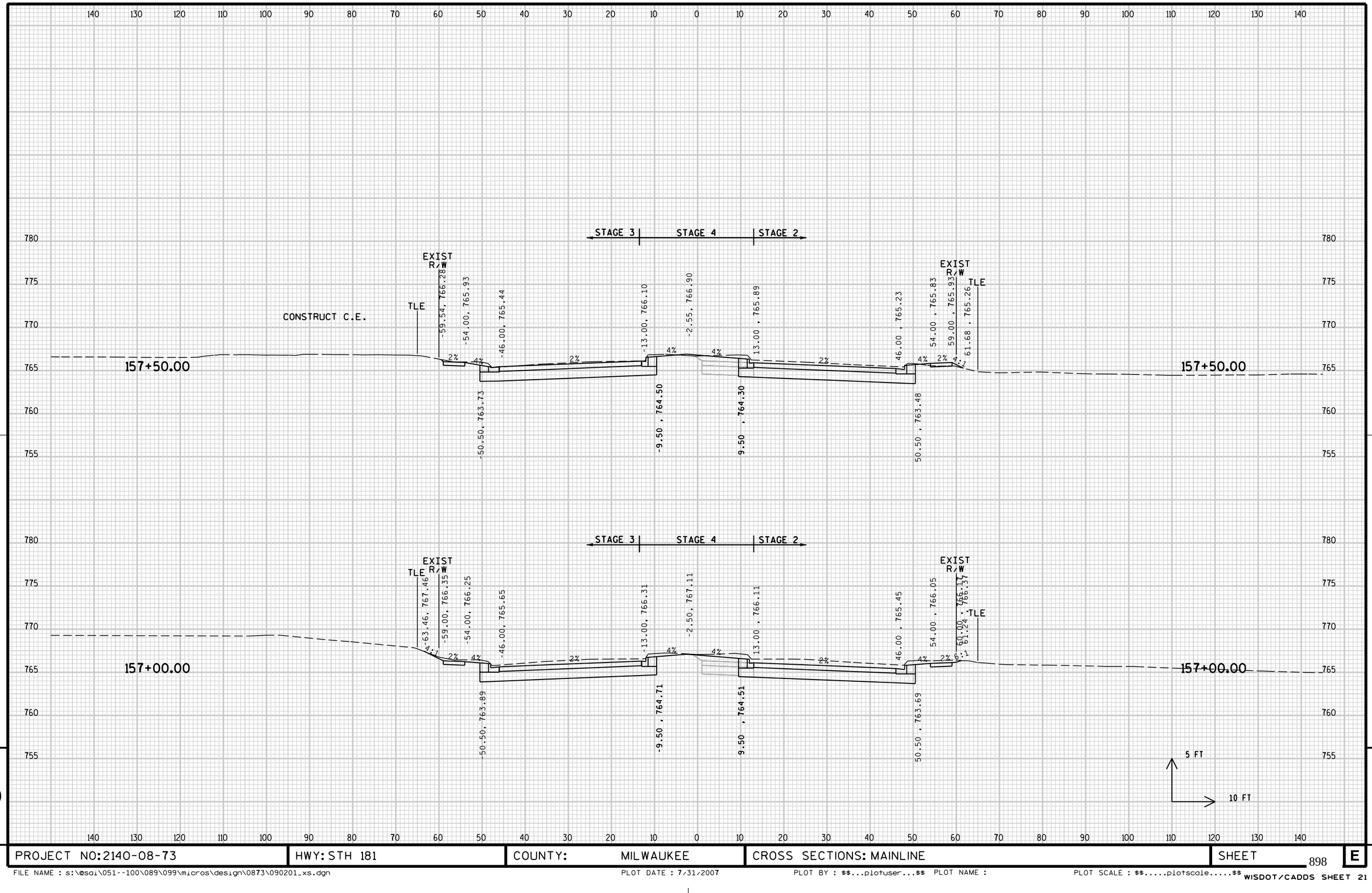


9

9

PROJECT NO:2140-08-73	HWY: STH 181	COUNTY: MILWAUKEE	CROSS SECTIONS: MAINLINE	SHEET 897	E

FILE NAME : s:\@sdi\051--100\089\099\micros\design\0873\090201_xs.dgn PLOT DATE : 7/31/2007 PLOT BY : $$...plotuser...$$ PLOT NAME : PLOT SCALE : $$.....plotscale.....$$ WISDOT/CADDS SHEET 21

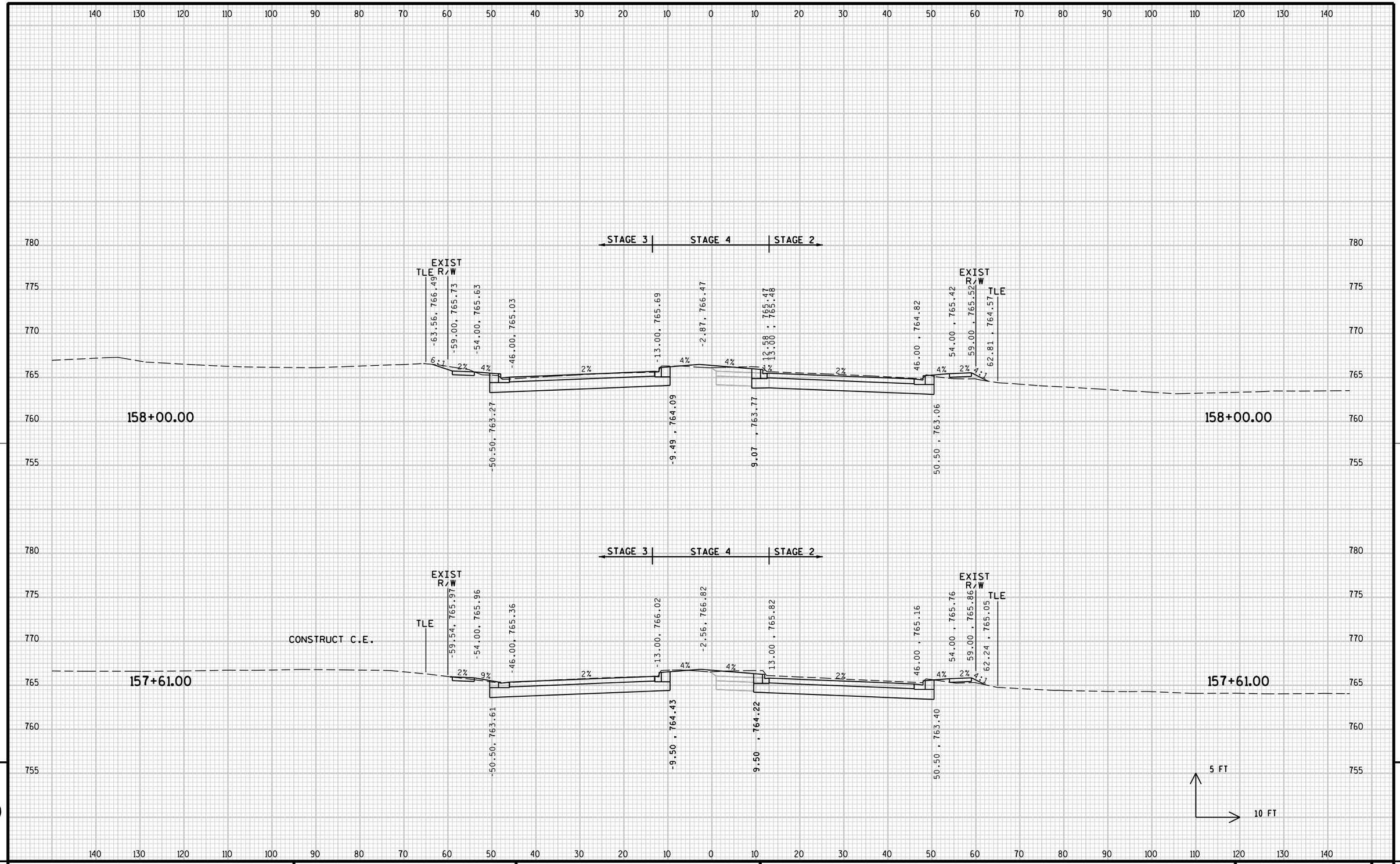


9

9

PROJECT NO: 2140-08-73	HWY: STH 181	COUNTY: MILWAUKEE	CROSS SECTIONS: MAINLINE	SHEET	E

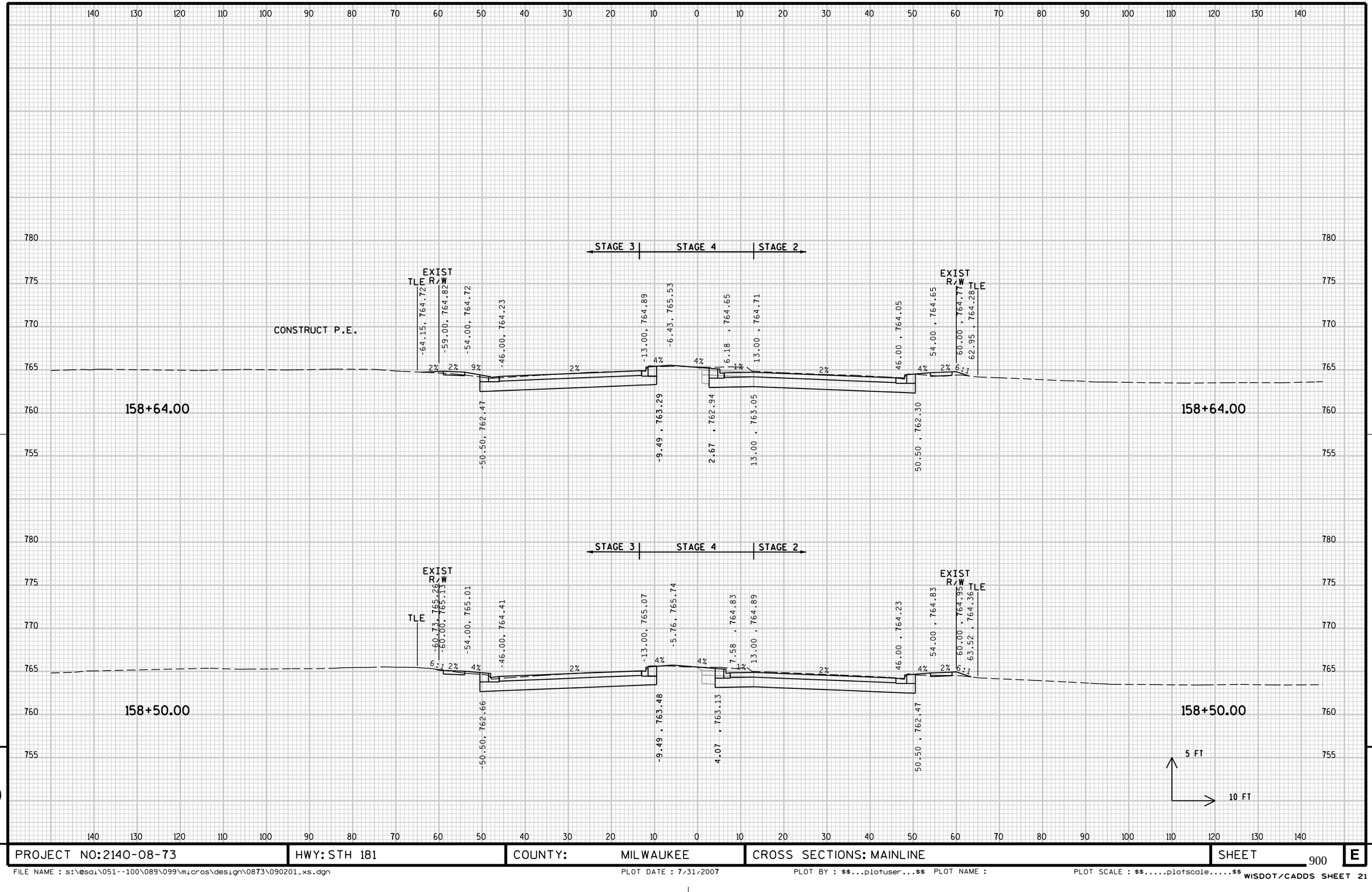
FILE NAME : s:\@sdi\051--100\089\099\micros\design\0873\090201_xs.dgn PLOT DATE : 7/31/2007 PLOT BY : $$...plotuser...$$ PLOT NAME : PLOT SCALE : $$.....plotscale.....$$ WISDOT/CADDS SHEET 21



PROJECT NO: 2140-08-73	HWY: STH 181	COUNTY: MILWAUKEE	CROSS SECTIONS: MAINLINE	SHEET 899	E

FILE NAME : s:\@sai\051--100\089\099\micros\design\0873\090201_xs.dgn PLOT DATE : 7/31/2007 PLOT BY : $$...plotuser...$$ PLOT NAME : PLOT SCALE : $$.....plotscale.....$$

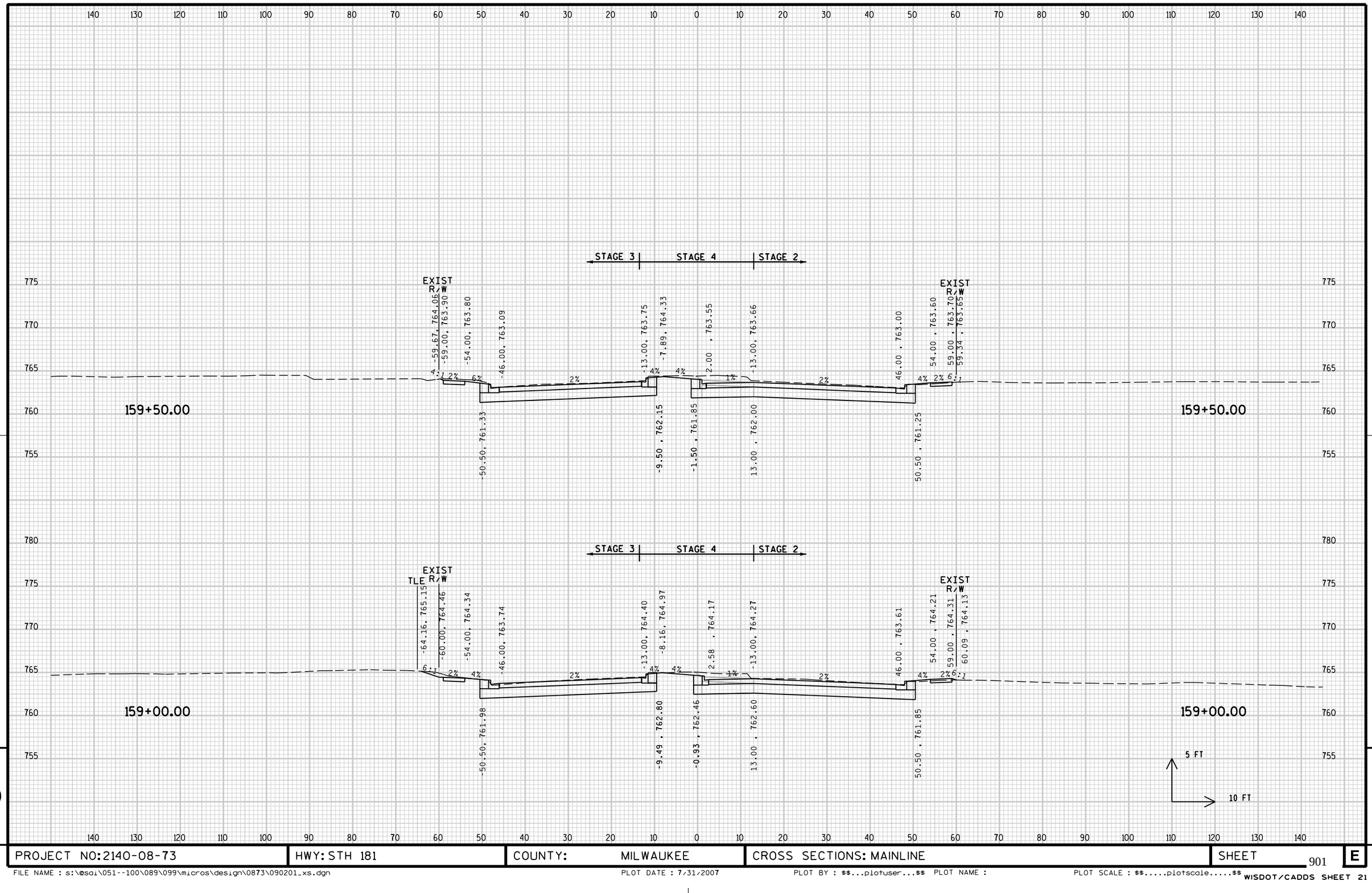
WISDOT/CADDS SHEET 21



9

9

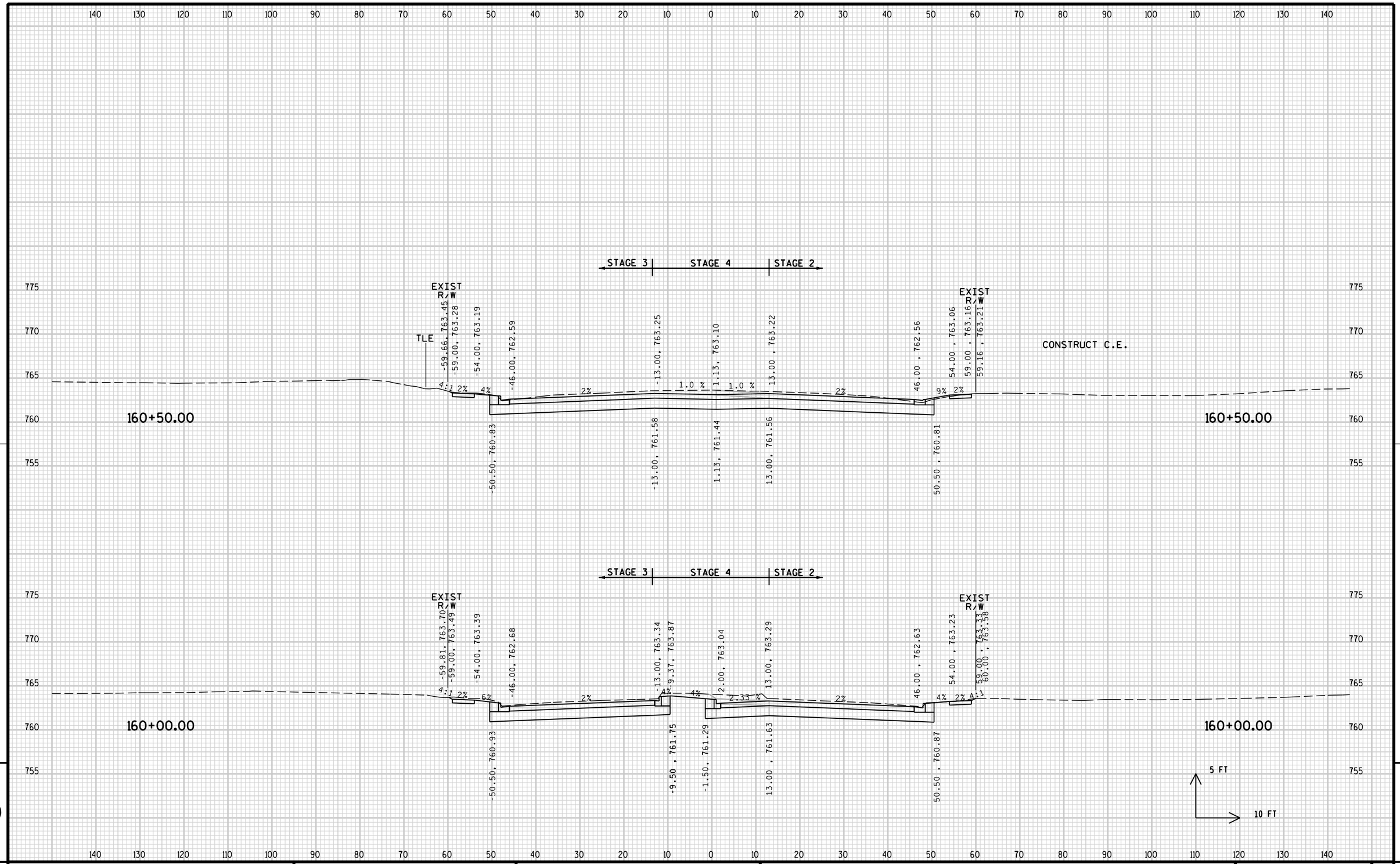
PROJECT NO: 2140-08-73	HWY: STH 181	COUNTY: MILWAUKEE	CROSS SECTIONS: MAINLINE	SHEET 900	E



9

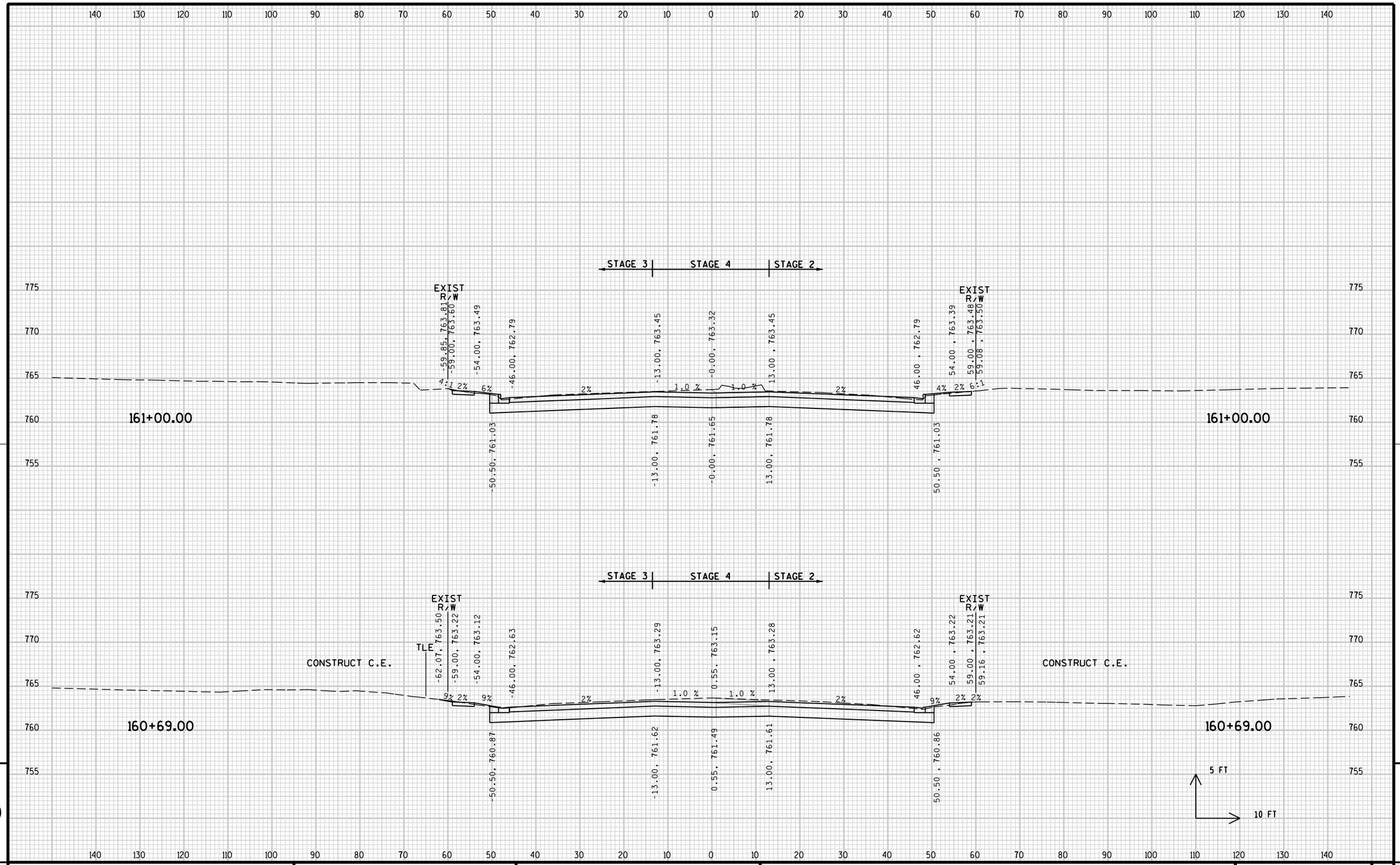
9

PROJECT NO: 2140-08-73	HWY: STH 181	COUNTY: MILWAUKEE	CROSS SECTIONS: MAINLINE	SHEET 901	E



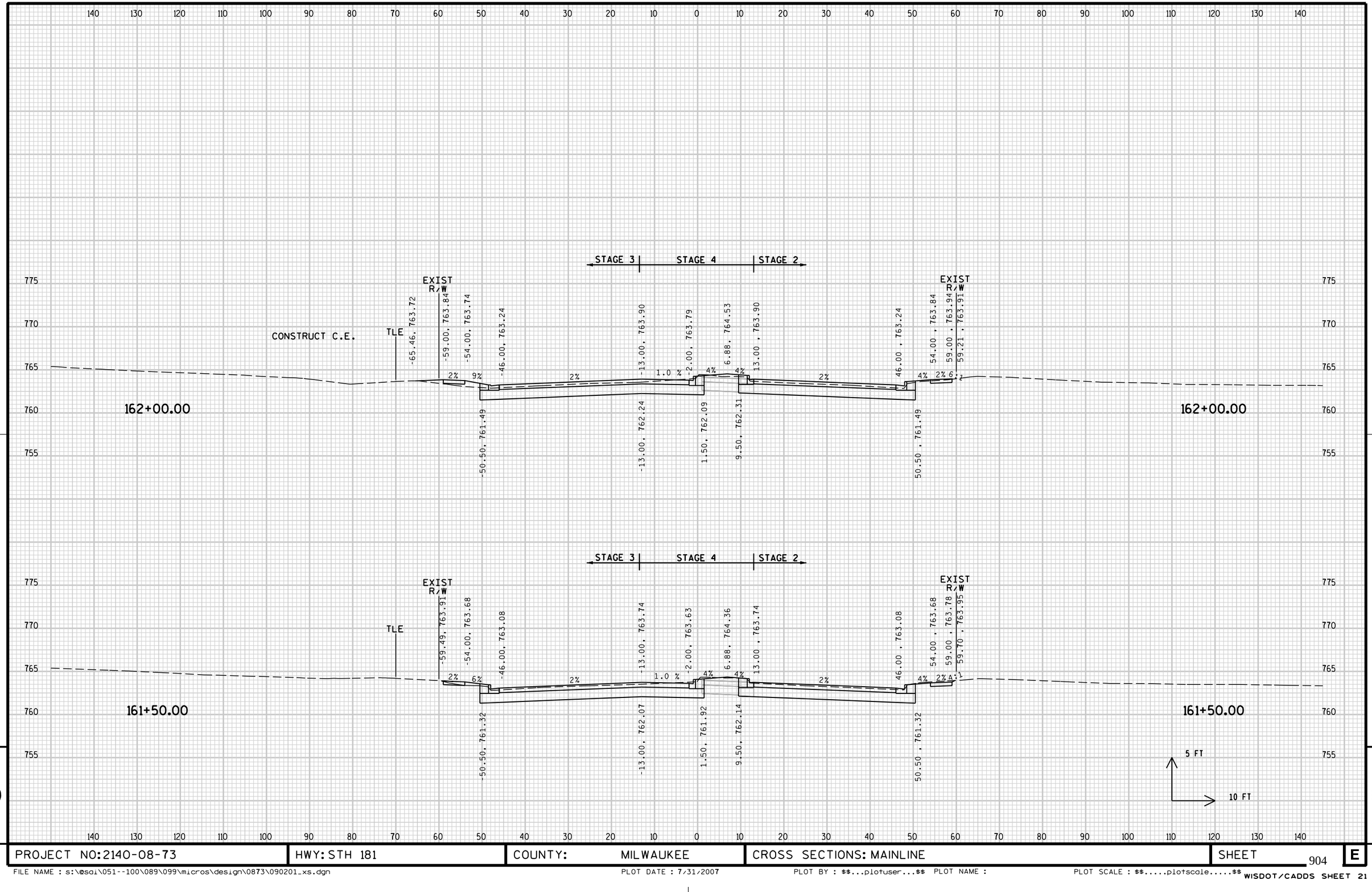
PROJECT NO: 2140-08-73	HWY: STH 181	COUNTY: MILWAUKEE	CROSS SECTIONS: MAINLINE	SHEET 902	E

FILE NAME : s:\@sai\051--100\089\099\micros\design\0873\090201_xs.dgn PLOT DATE : 7/31/2007 PLOT BY : $$...plotuser...$$ PLOT NAME : PLOT SCALE : $$.....plotscale.....$$ WISDOT/CADDS SHEET 21



PROJECT NO:2140-08-73	HWY: STH 181	COUNTY: MILWAUKEE	CROSS SECTIONS: MAINLINE	SHEET 903	E

FILE NAME : s:\@sai\051--100\089\099\micros\design\0873\090201_xs.dgn PLOT DATE : 7/31/2007 PLOT BY : $$...plotuser...$$ PLOT NAME : PLOT SCALE : $$.....plotscale.....$$ WISDOT/CADDS SHEET 21



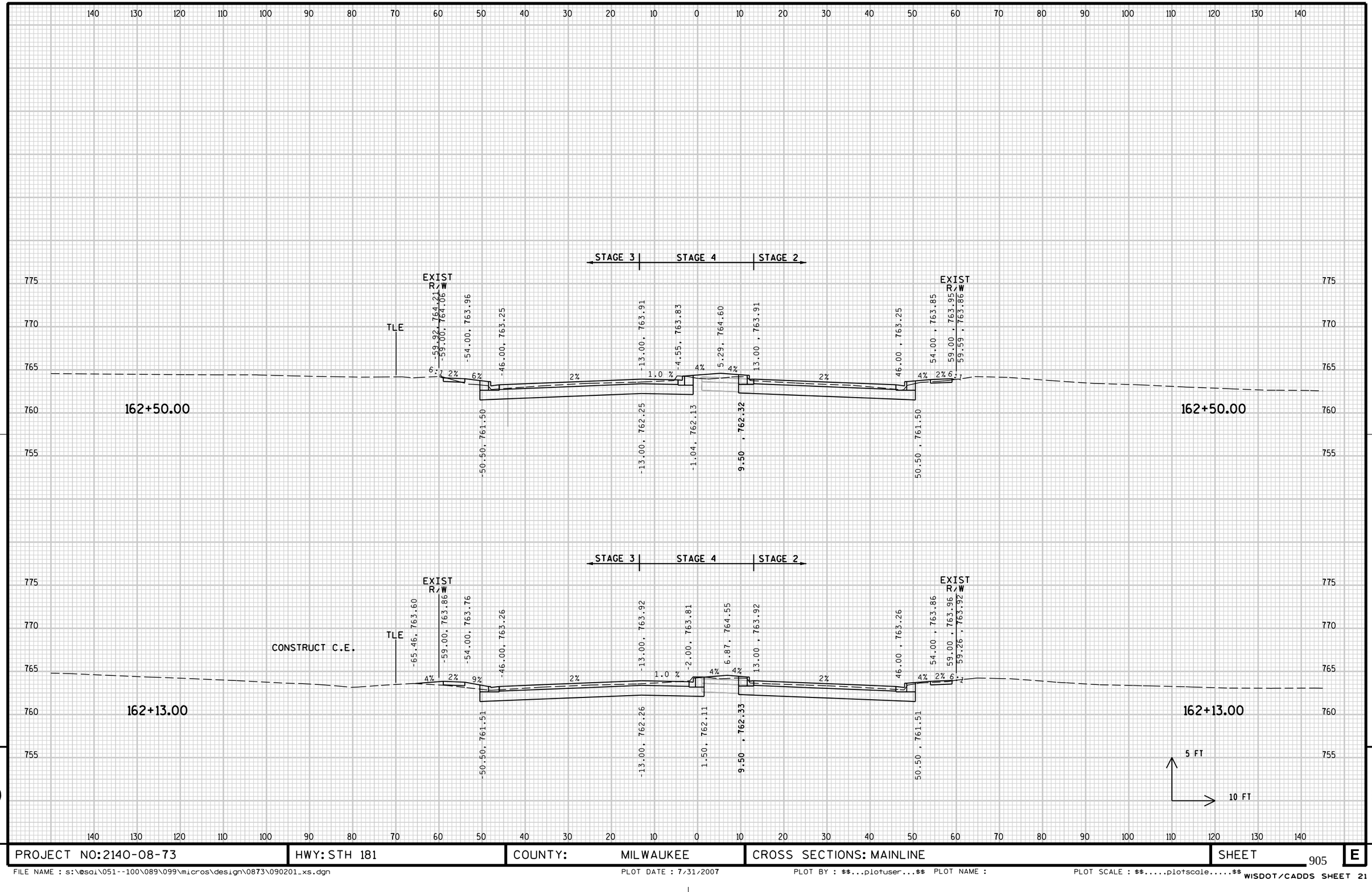
9

9

PROJECT NO: 2140-08-73	HWY: STH 181	COUNTY: MILWAUKEE	CROSS SECTIONS: MAINLINE	SHEET 904	E

FILE NAME : s:\@sdi\051--100\089\099\micros\design\0873\090201_xs.dgn PLOT DATE : 7/31/2007 PLOT BY : $$...plotuser...$$ PLOT NAME : PLOT SCALE : $$.....plotscale.....$$

WISDOT/CADDS SHEET 21



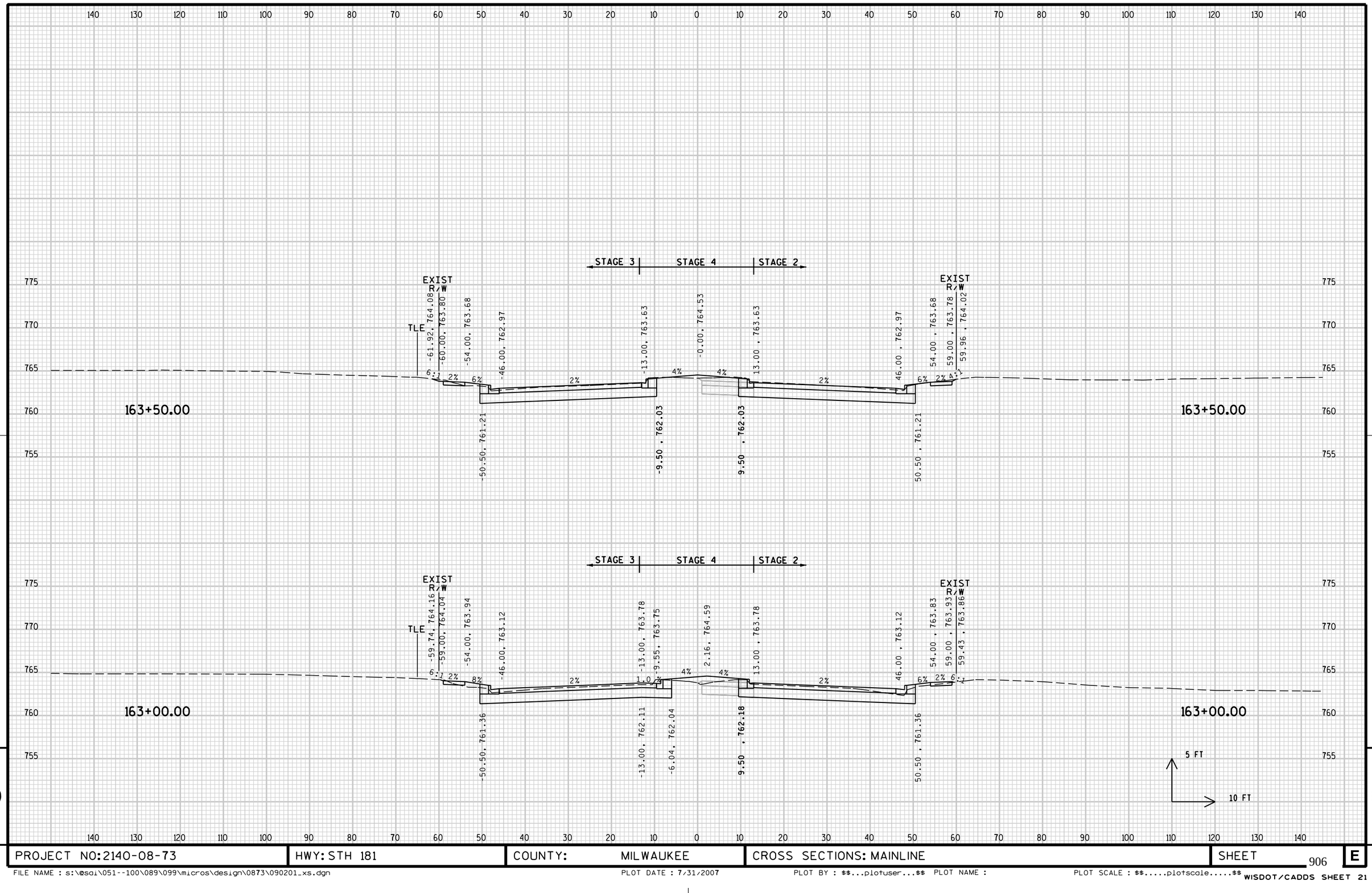
9

9

PROJECT NO:2140-08-73	HWY: STH 181	COUNTY: MILWAUKEE	CROSS SECTIONS: MAINLINE	SHEET 905	E

FILE NAME : s:\@sai\051--100\089\099\micros\design\0873\090201_xs.dgn PLOT DATE : 7/31/2007 PLOT BY : $$...plotuser...$$ PLOT NAME : PLOT SCALE : $$.....plotscale.....$$

WISDOT/CADDS SHEET 21



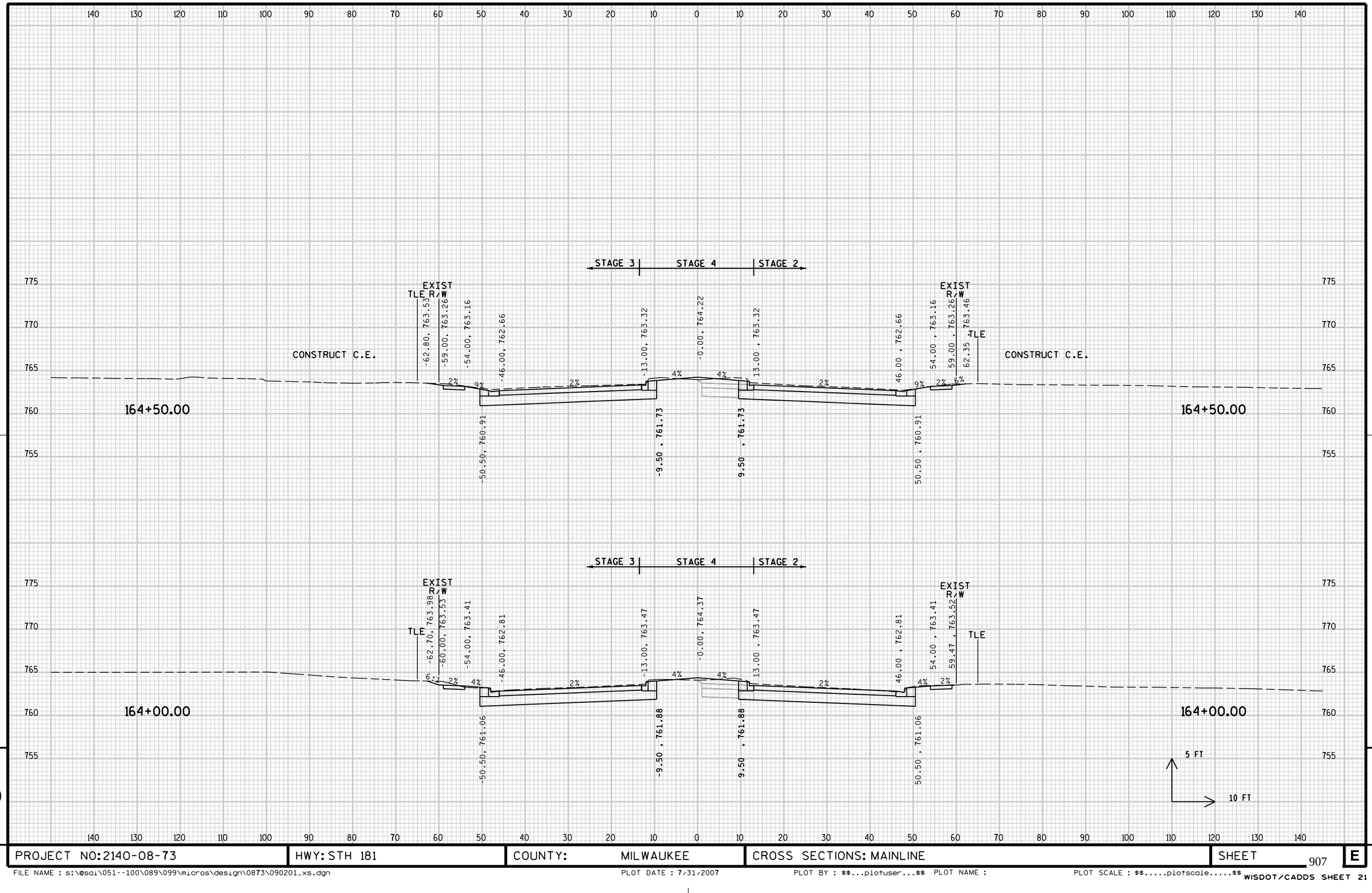
9

9

PROJECT NO: 2140-08-73	HWY: STH 181	COUNTY: MILWAUKEE	CROSS SECTIONS: MAINLINE	SHEET 906	E

FILE NAME : s:\@sdi\051--100\089\099\micros\design\0873\090201_xs.dgn PLOT DATE : 7/31/2007 PLOT BY : $$...plotuser...$$ PLOT NAME : PLOT SCALE : $$.....plotscale.....$$

WISDOT/CADDS SHEET 21

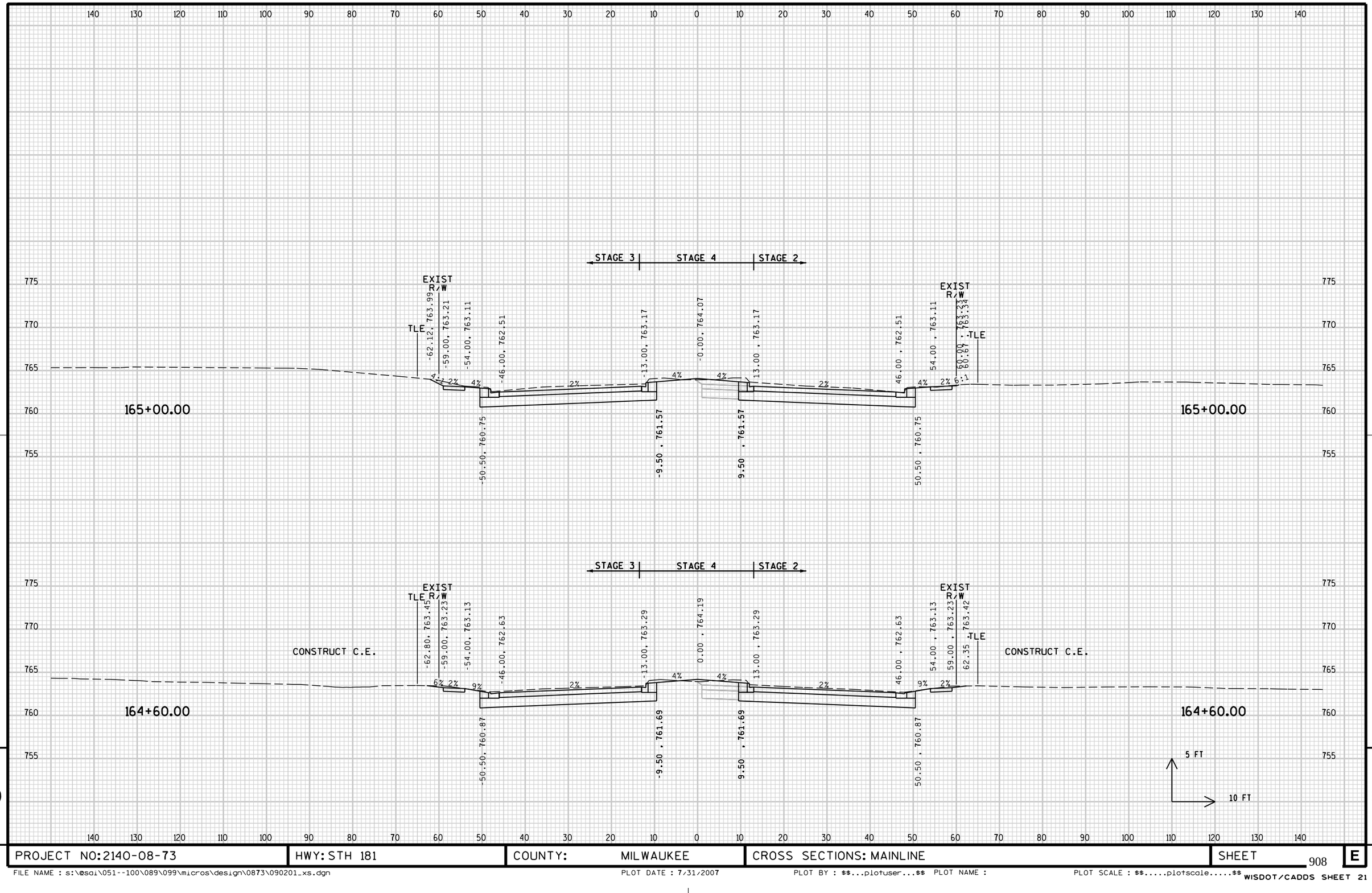


9

9

PROJECT NO: 2140-08-73	HWY: STH 181	COUNTY: MILWAUKEE	CROSS SECTIONS: MAINLINE	SHEET 907	E

FILE NAME : s:\@sai\051--100\089\099\micros\design\0873\090201_xs.dgn PLOT DATE : 7/31/2007 PLOT BY : $$...plotuser...$$ PLOT NAME : PLOT SCALE : $$.....plotscale.....$$ WISDOT/CADDS SHEET 21

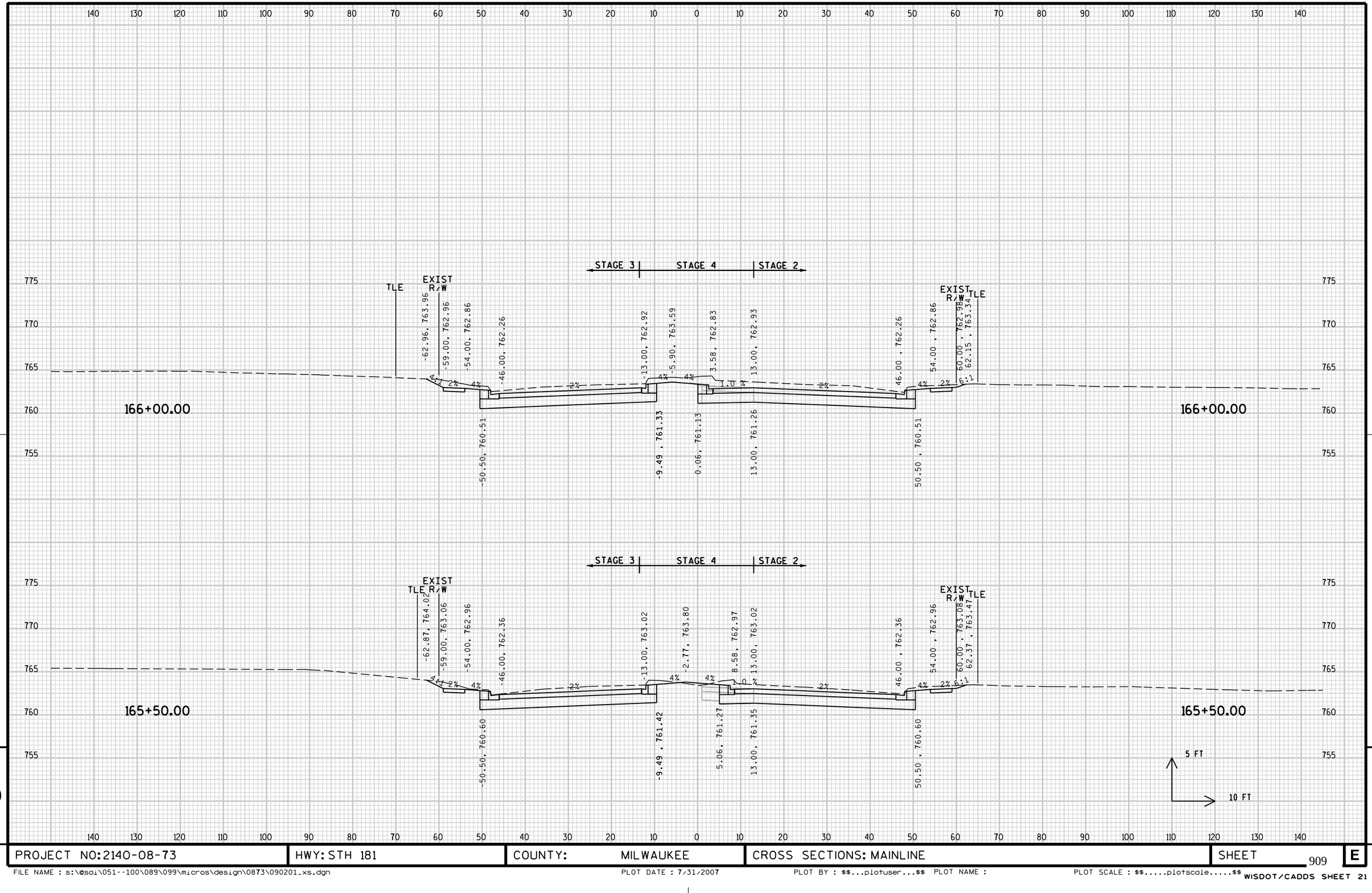


9

9

PROJECT NO: 2140-08-73	HWY: STH 181	COUNTY: MILWAUKEE	CROSS SECTIONS: MAINLINE	SHEET 908	E

FILE NAME : s:\@sai\051--100\089\099\micros\design\0873\090201_xs.dgn PLOT DATE : 7/31/2007 PLOT BY : $$...plotuser...$$ PLOT NAME : PLOT SCALE : $$.....plotscale.....$$ WISDOT/CADDS SHEET 21

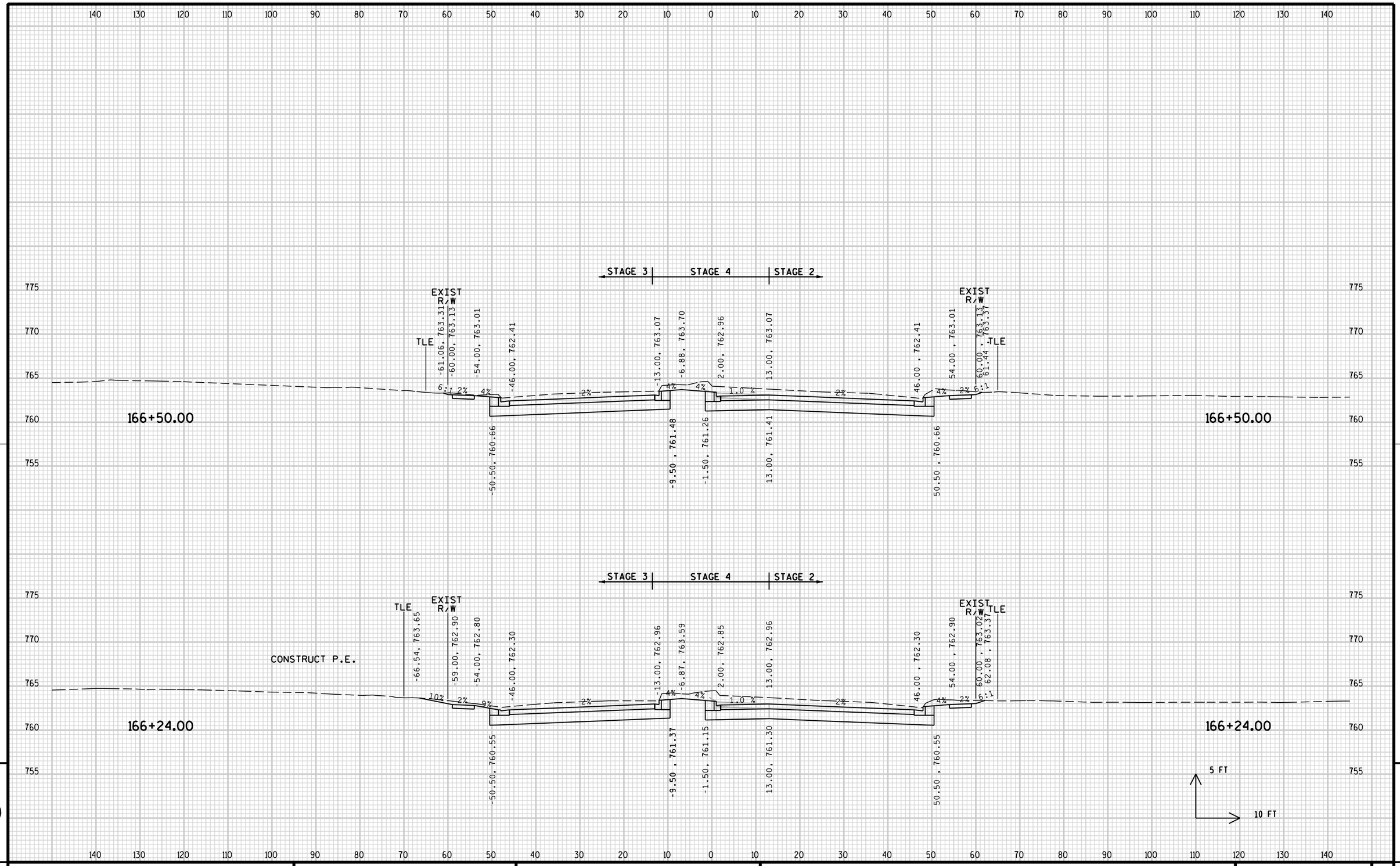


9

9

PROJECT NO: 2140-08-73	HWY: STH 181	COUNTY: MILWAUKEE	CROSS SECTIONS: MAINLINE	SHEET 909	E

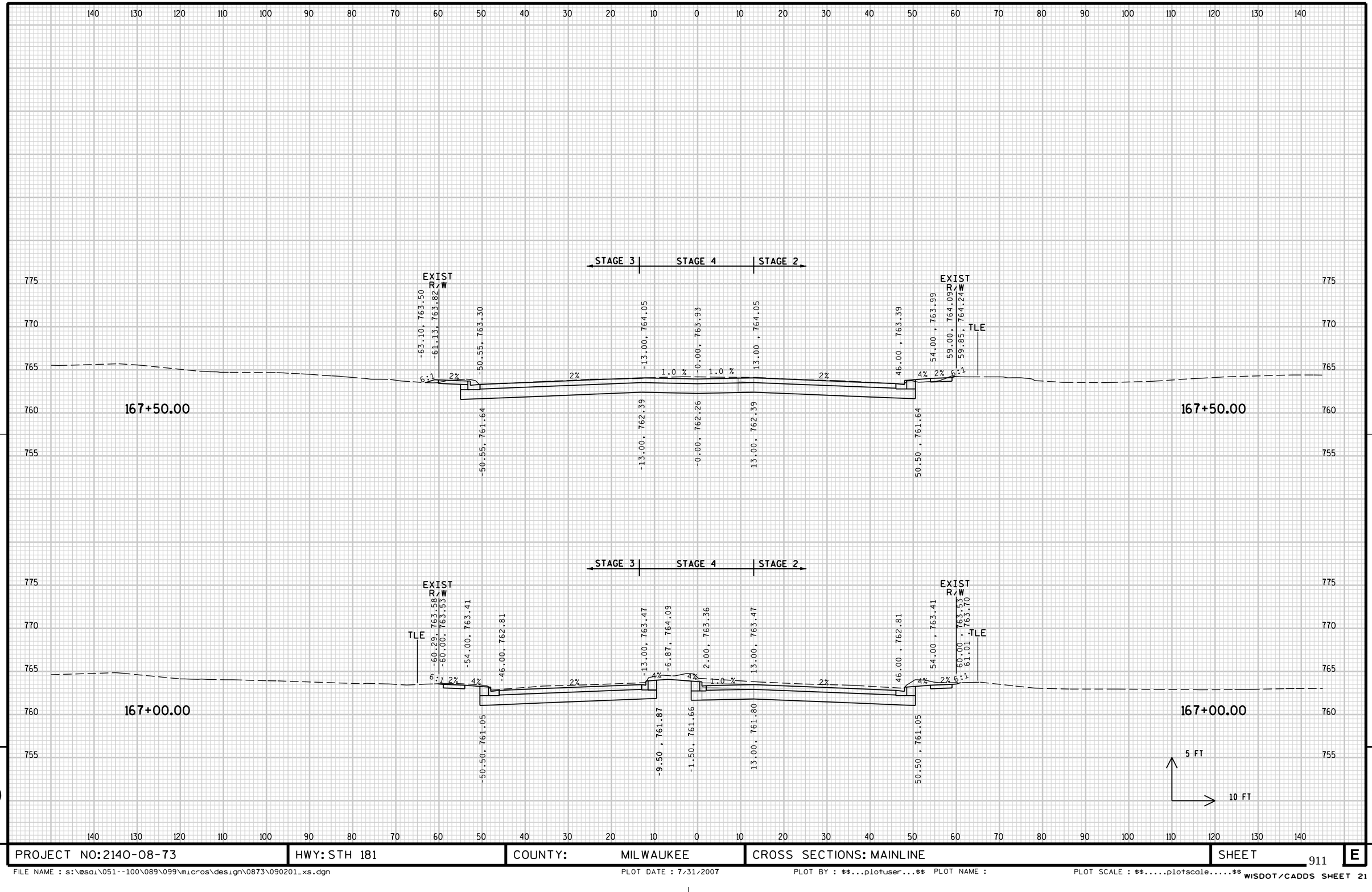
FILE NAME : s:\@sdi\051--100\089\099\micros\design\0873\090201_xs.dgn PLOT DATE : 7/31/2007 PLOT BY : $$...plotuser...$$ PLOT NAME : PLOT SCALE : $$.....plotscale.....$$ WISDOT/CADDS SHEET 21



9

9

PROJECT NO: 2140-08-73	HWY: STH 181	COUNTY: MILWAUKEE	CROSS SECTIONS: MAINLINE	SHEET 910	E



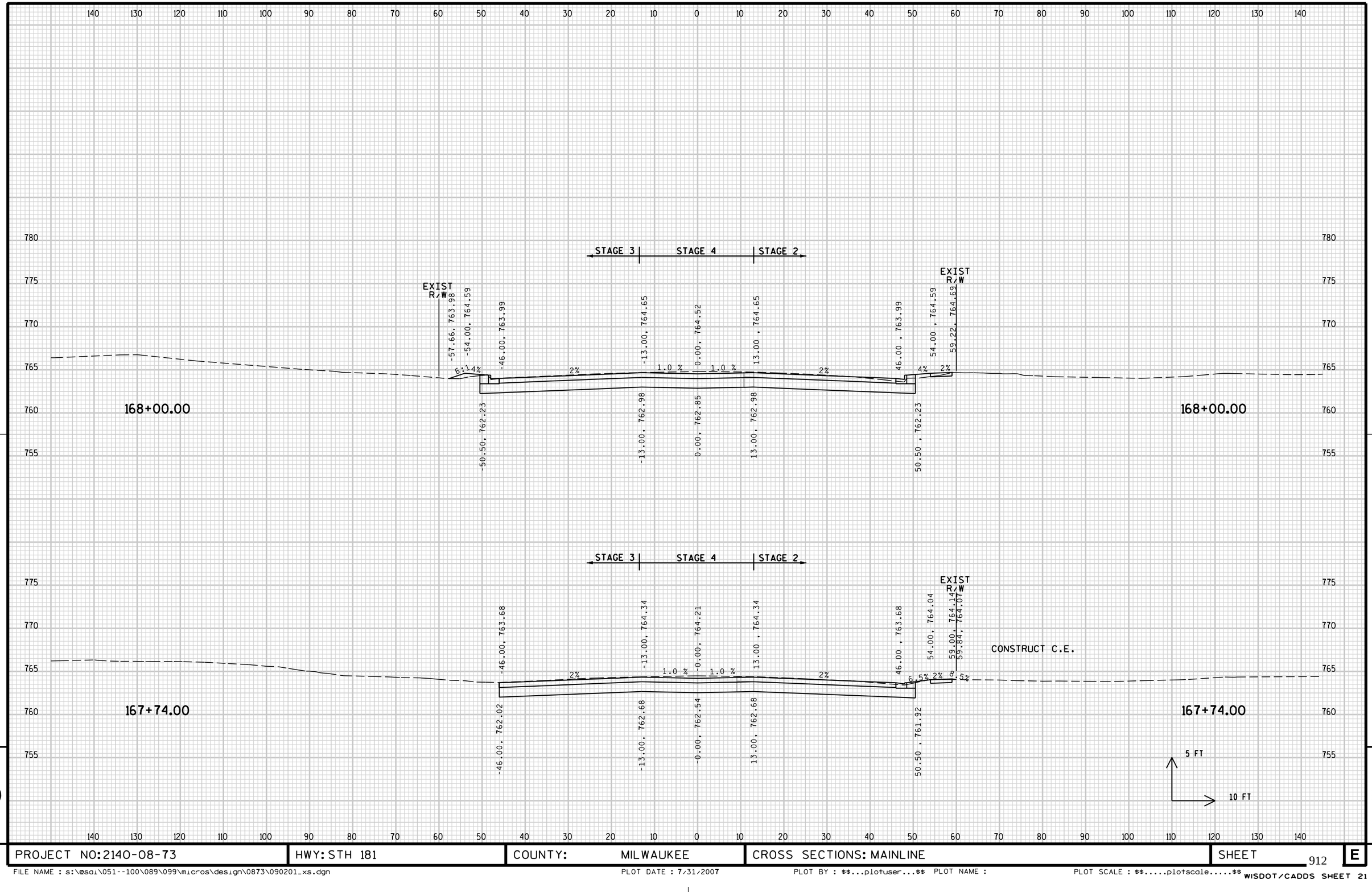
9

9

PROJECT NO: 2140-08-73	HWY: STH 181	COUNTY: MILWAUKEE	CROSS SECTIONS: MAINLINE	SHEET 911	E

FILE NAME : s:\@sai\051--100\089\099\micros\design\0873\090201_xs.dgn PLOT DATE : 7/31/2007 PLOT BY : $$...plotuser...$$ PLOT NAME : PLOT SCALE : $$.....plotscale.....$$

WISDOT/CADDS SHEET 21

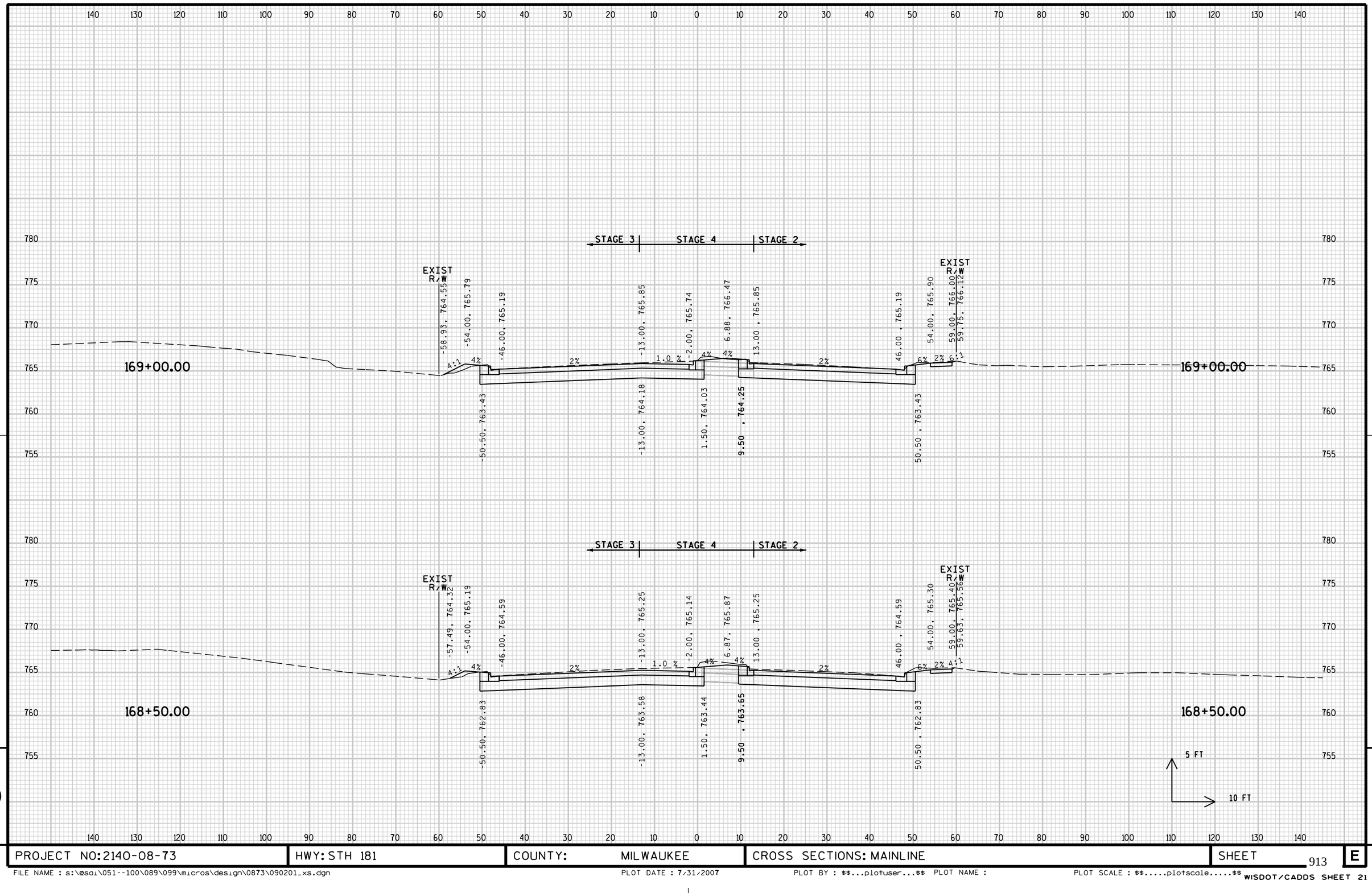


9

9

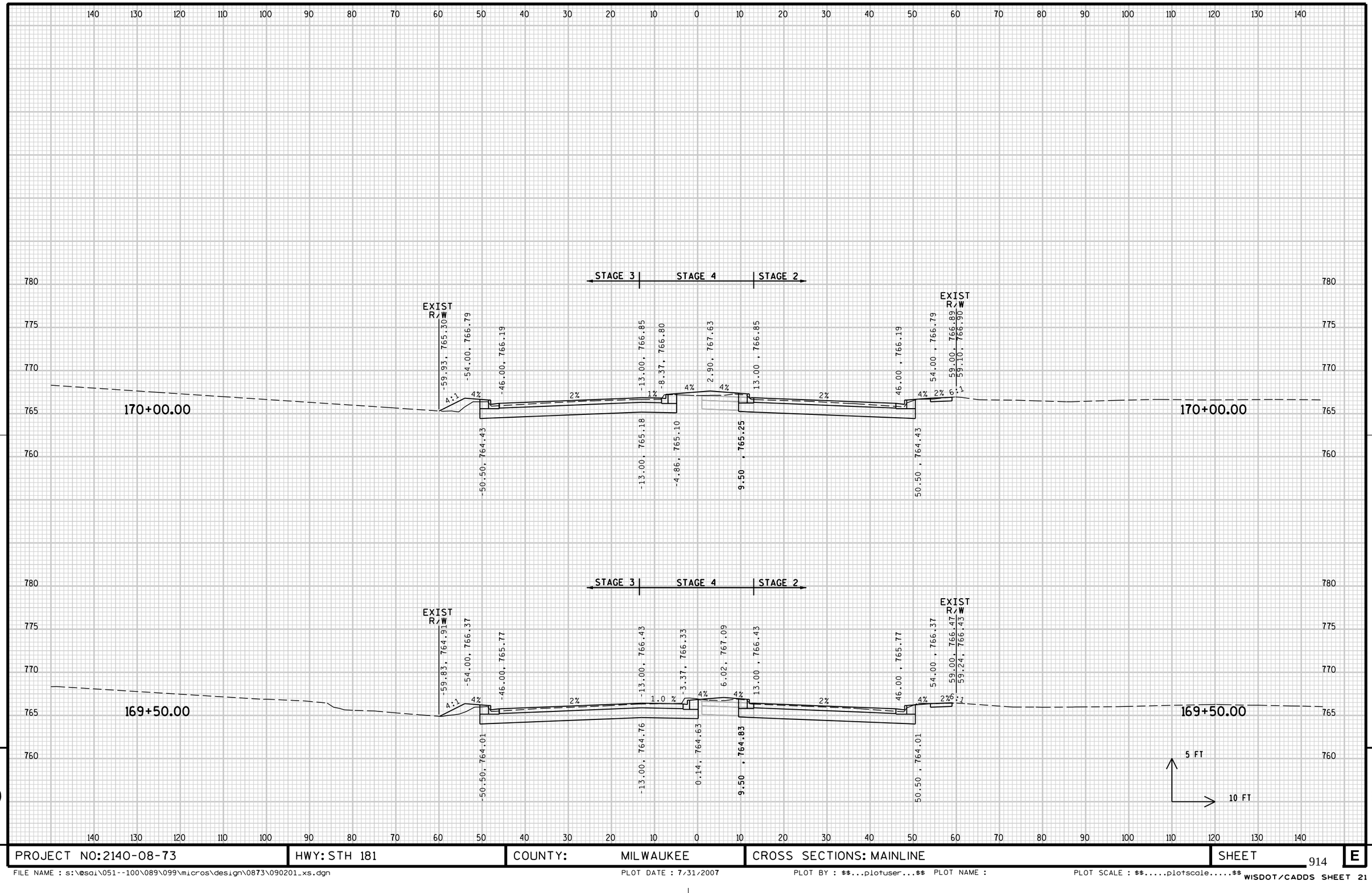
PROJECT NO: 2140-08-73	HWY: STH 181	COUNTY: MILWAUKEE	CROSS SECTIONS: MAINLINE	SHEET 912	E

FILE NAME : s:\@sai\051--100\089\099\micros\design\0873\090201_xs.dgn PLOT DATE : 7/31/2007 PLOT BY : $$...plotuser...$$ PLOT NAME : PLOT SCALE : $$.....plotscale.....$$ WISDOT/CADDS SHEET 21



PROJECT NO: 2140-08-73	HWY: STH 181	COUNTY: MILWAUKEE	CROSS SECTIONS: MAINLINE	SHEET	E

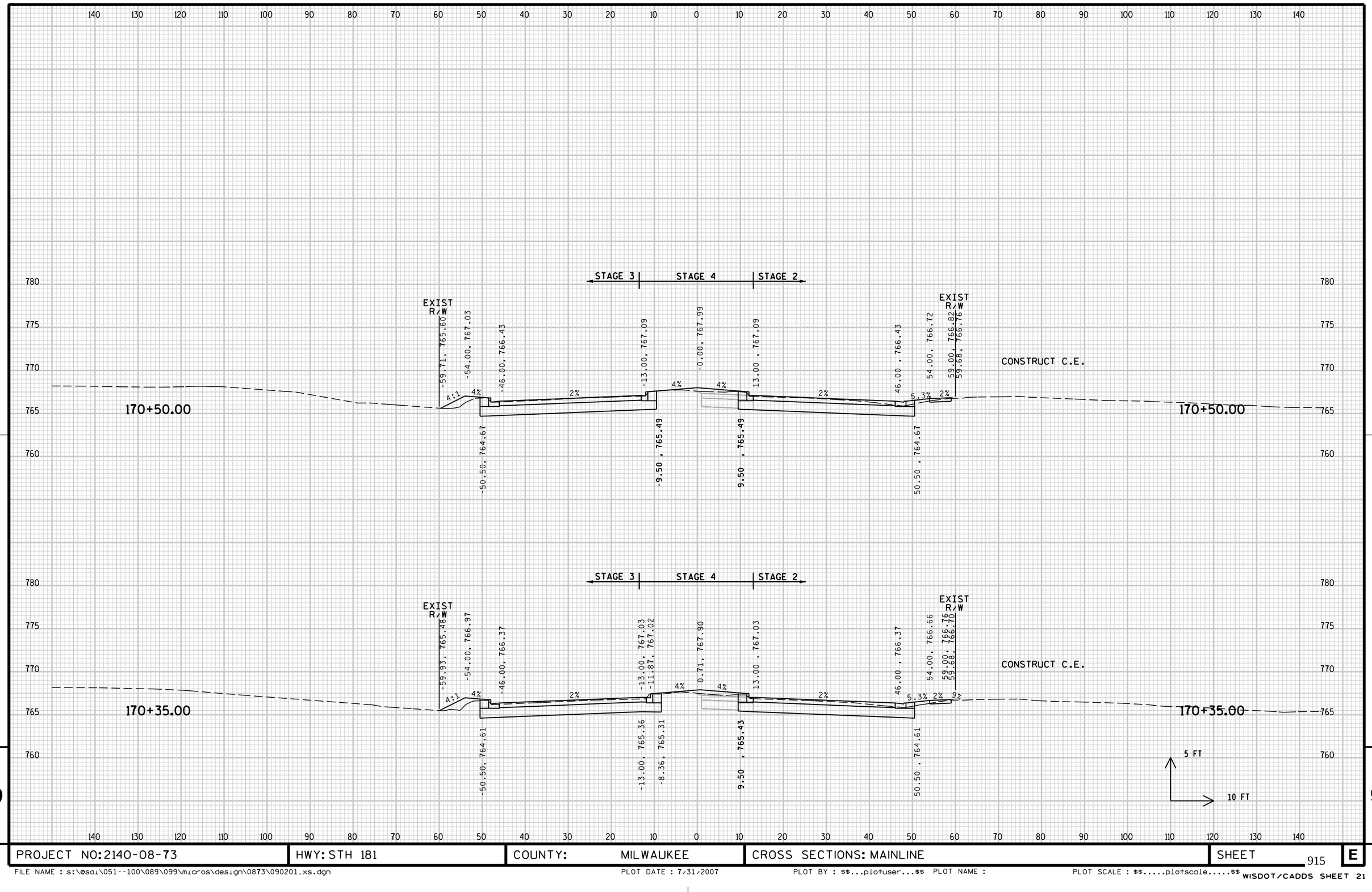
FILE NAME : s:\@sdi\051--100\089\099\micros\design\0873\090201_xs.dgn PLOT DATE : 7/31/2007 PLOT BY : $$...plotuser...$$ PLOT NAME : PLOT SCALE : $$.....plotscale.....$$ WISDOT/CADDS SHEET 21



PROJECT NO: 2140-08-73	HWY: STH 181	COUNTY: MILWAUKEE	CROSS SECTIONS: MAINLINE	SHEET 914	E

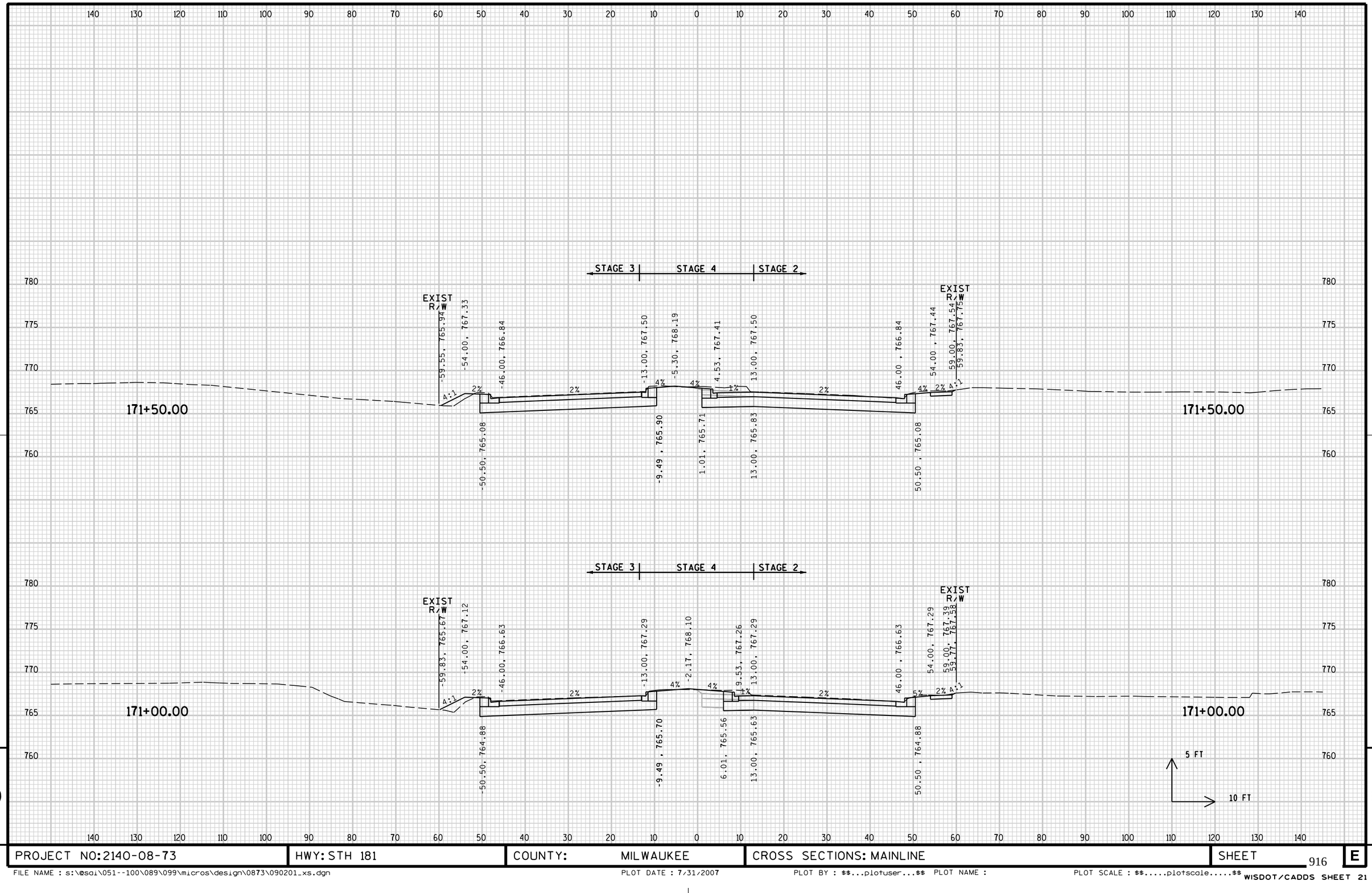
FILE NAME : s:\@sdi\051--100\089\099\micros\design\0873\090201_xs.dgn PLOT DATE : 7/31/2007 PLOT BY : $$...plotuser...$$ PLOT NAME : PLOT SCALE : $$.....plotscale.....$$

WISDOT/CADDS SHEET 21



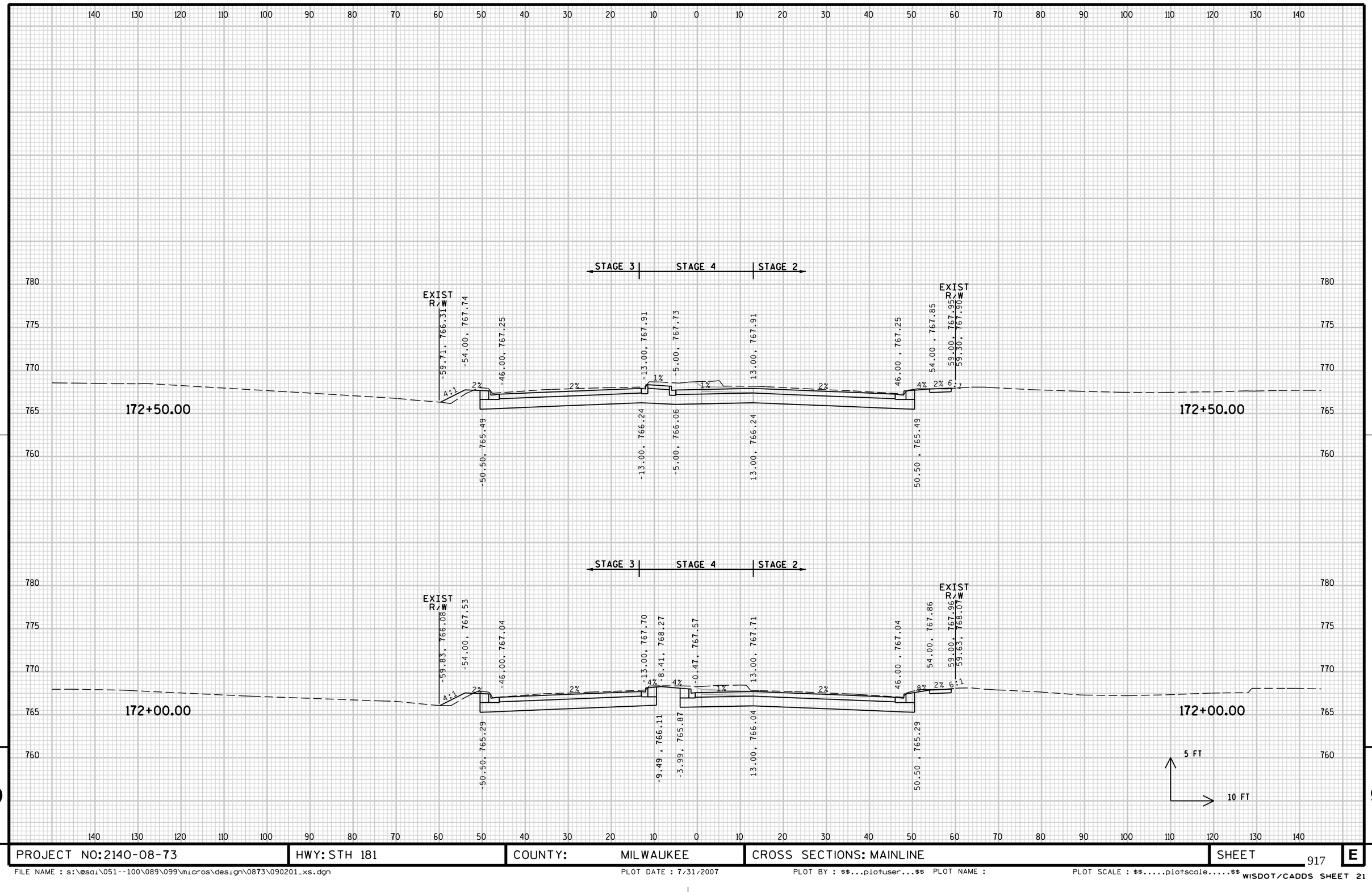
PROJECT NO: 2140-08-73	HWY: STH 181	COUNTY: MILWAUKEE	CROSS SECTIONS: MAINLINE	SHEET	E

FILE NAME : s:\@sdi\051--100\089\099\micros\design\0873\090201_xs.dgn PLOT DATE : 7/31/2007 PLOT BY : $$...plotuser...$$ PLOT NAME : PLOT SCALE : $$.....plotscale.....$$ WISDOT/CADDS SHEET 21



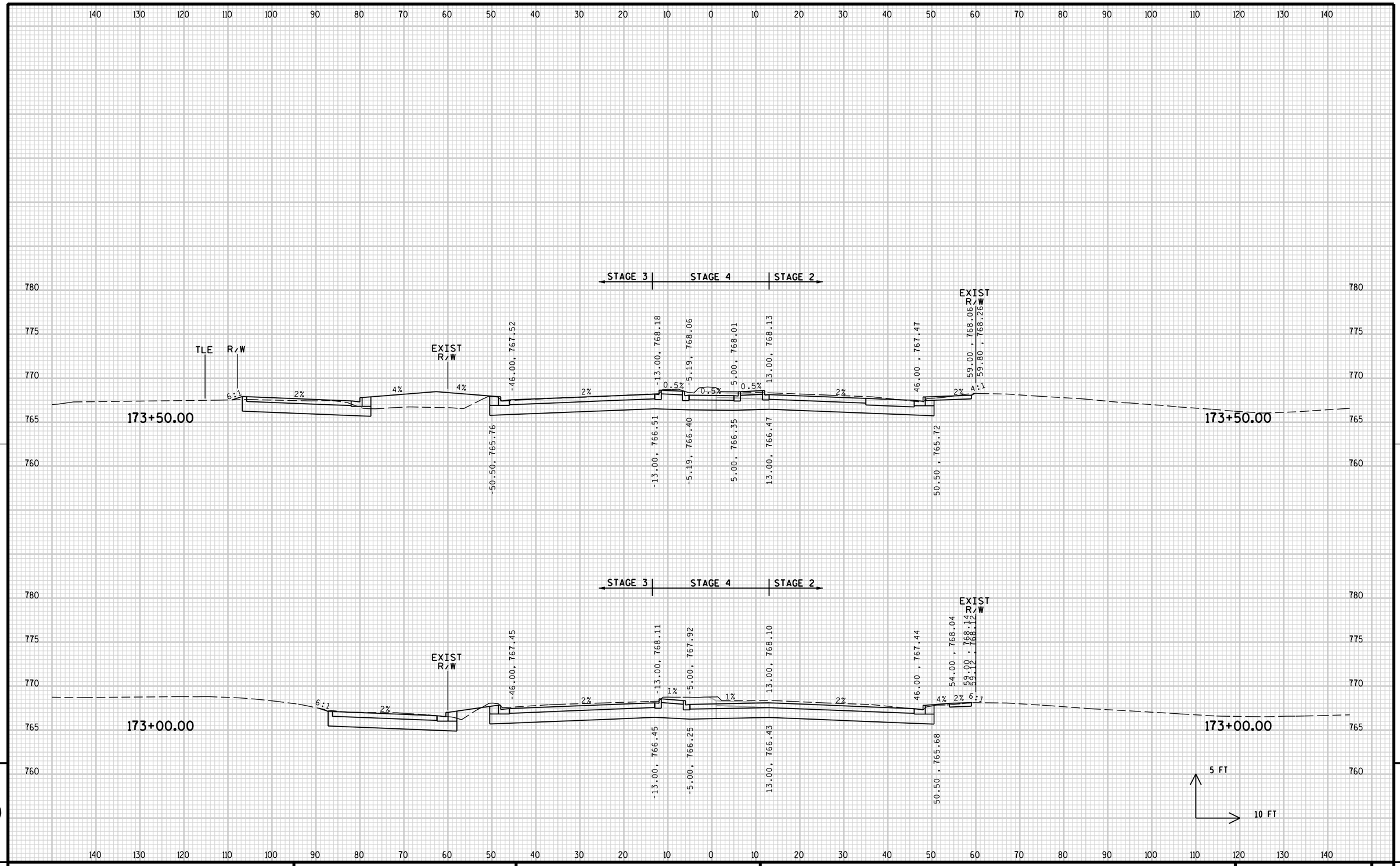
PROJECT NO: 2140-08-73	HWY: STH 181	COUNTY: MILWAUKEE	CROSS SECTIONS: MAINLINE	SHEET 916	E

FILE NAME : s:\@sai\051--100\089\099\micros\design\0873\090201_xs.dgn PLOT DATE : 7/31/2007 PLOT BY : $$...plotuser...$$ PLOT NAME : PLOT SCALE : $$.....plotscale.....$$ WISDOT/CADDS SHEET 21



PROJECT NO: 2140-08-73	HWY: STH 181	COUNTY: MILWAUKEE	CROSS SECTIONS: MAINLINE	SHEET	E

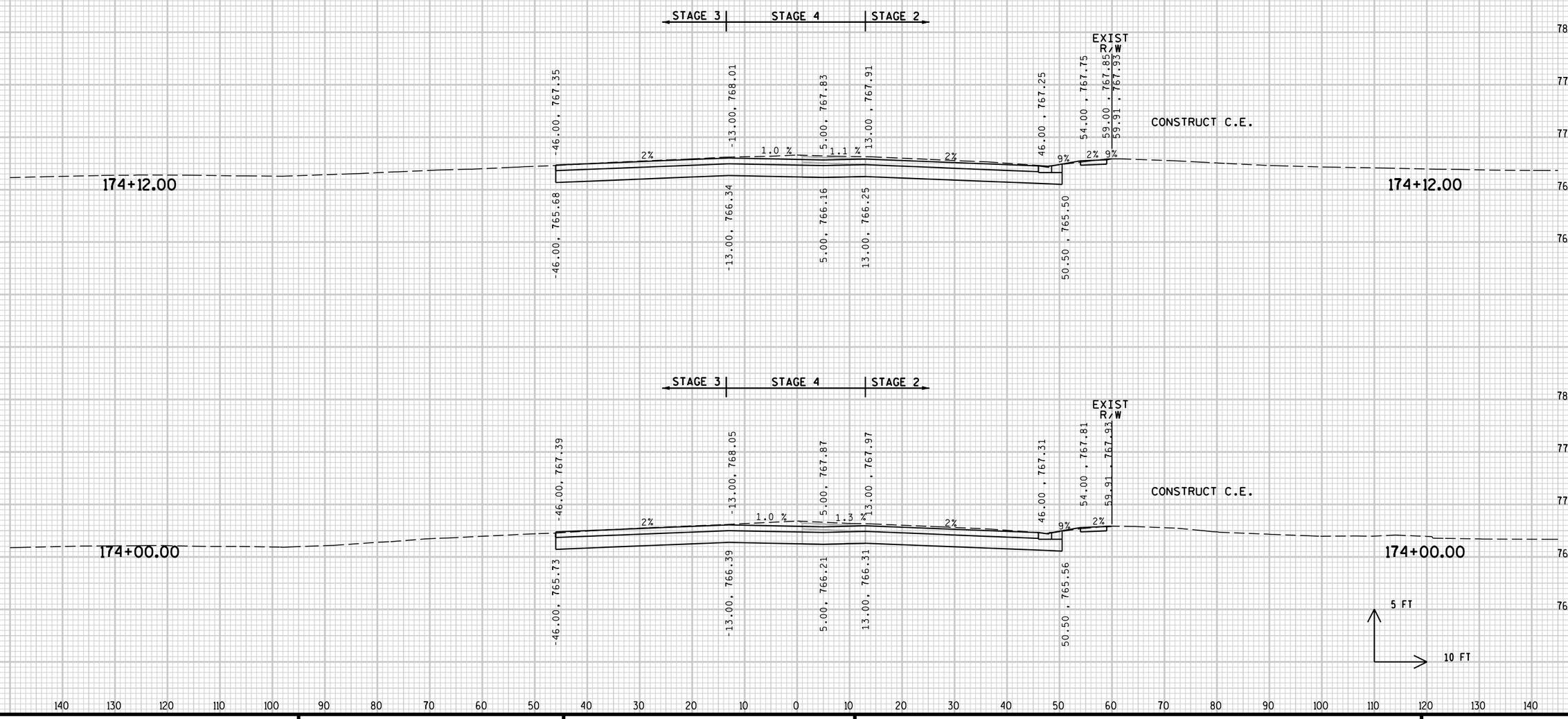
FILE NAME : s:\@sai\051--100\089\099\micros\design\0873\090201_xs.dgn PLOT DATE : 7/31/2007 PLOT BY : $$...plotuser...$$ PLOT NAME : PLOT SCALE : $$.....plotscale.....$$ WISDOT/CADDS SHEET 21



9

9

PROJECT NO: 2140-08-73	HWY: STH 181	COUNTY: MILWAUKEE	CROSS SECTIONS: MAINLINE	SHEET 918	E

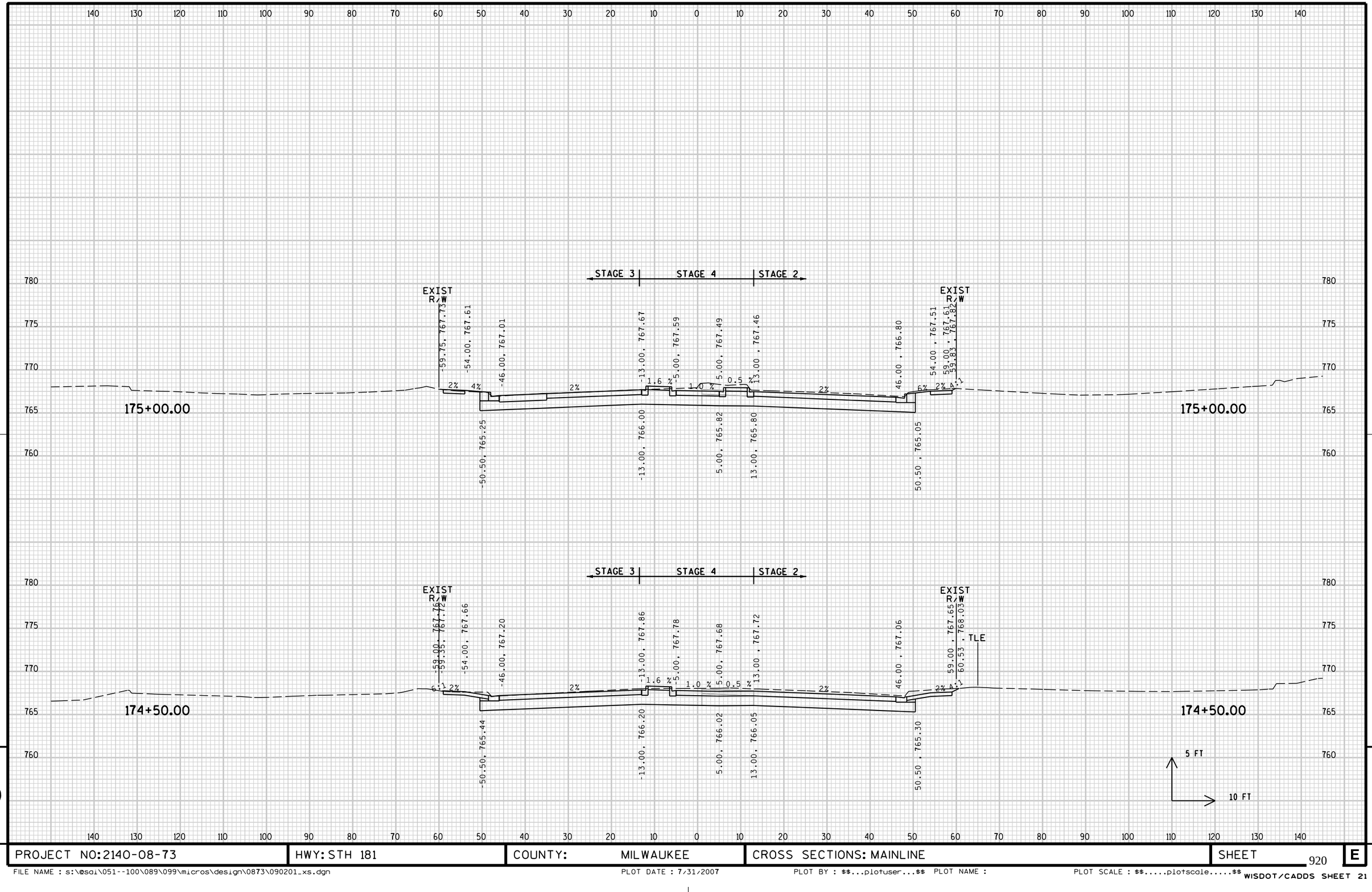


9

9

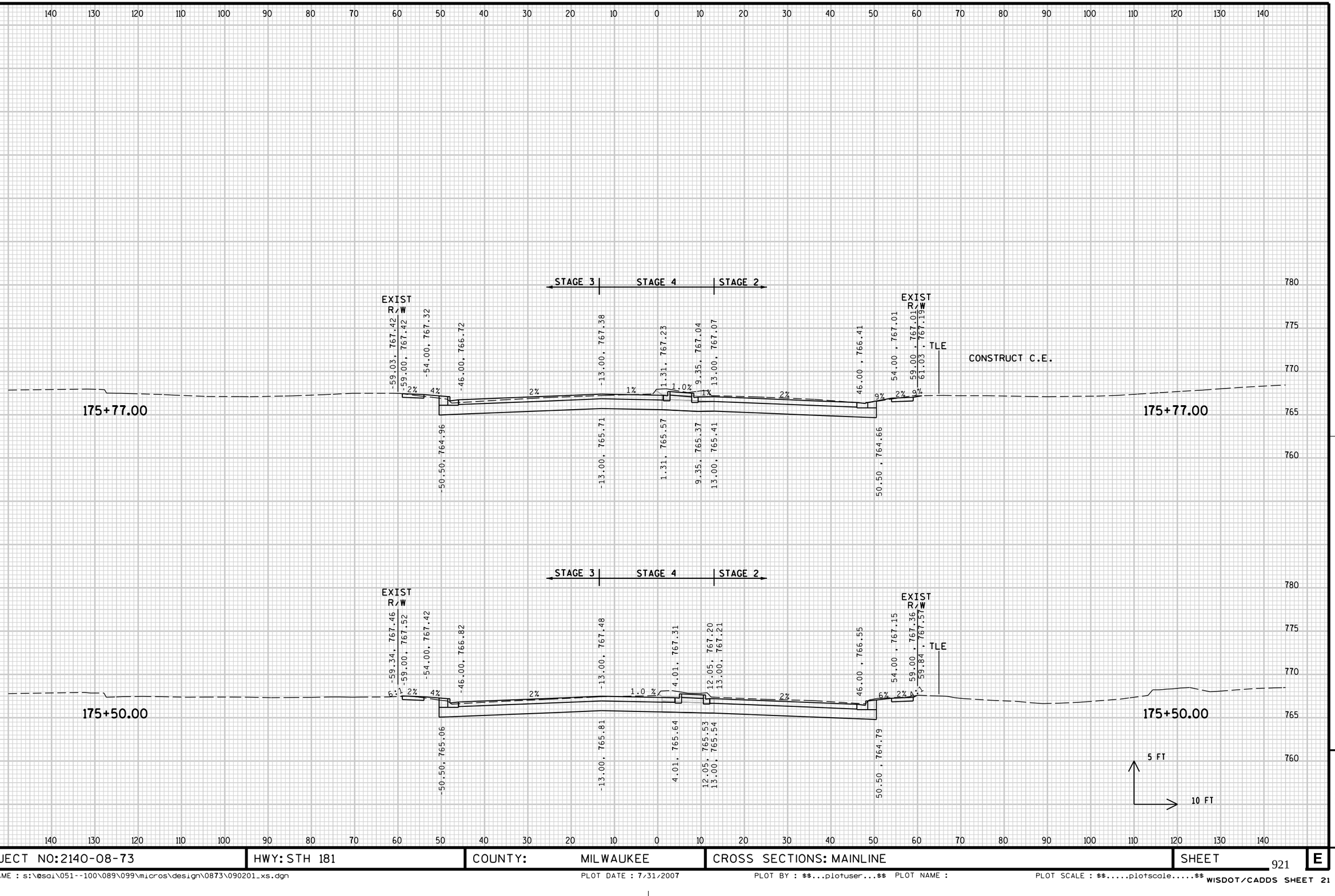
PROJECT NO: 2140-08-73	HWY: STH 181	COUNTY: MILWAUKEE	CROSS SECTIONS: MAINLINE	SHEET 919	E

FILE NAME : s:\@sai\051--100\089\099\micros\design\0873\090201_xs.dgn PLOT DATE : 7/31/2007 PLOT BY : $$...plotuser...$$ PLOT NAME : PLOT SCALE : $$.....plotscale.....$$ WISDOT/CADDS SHEET 21



PROJECT NO: 2140-08-73	HWY: STH 181	COUNTY: MILWAUKEE	CROSS SECTIONS: MAINLINE	SHEET 920	E

FILE NAME : s:\@sai\051--100\089\099\micros\design\0873\090201_xs.dgn PLOT DATE : 7/31/2007 PLOT BY : $$...plotuser...$$ PLOT NAME : PLOT SCALE : $$.....plotscale.....$$ WISDOT/CADDS SHEET 21

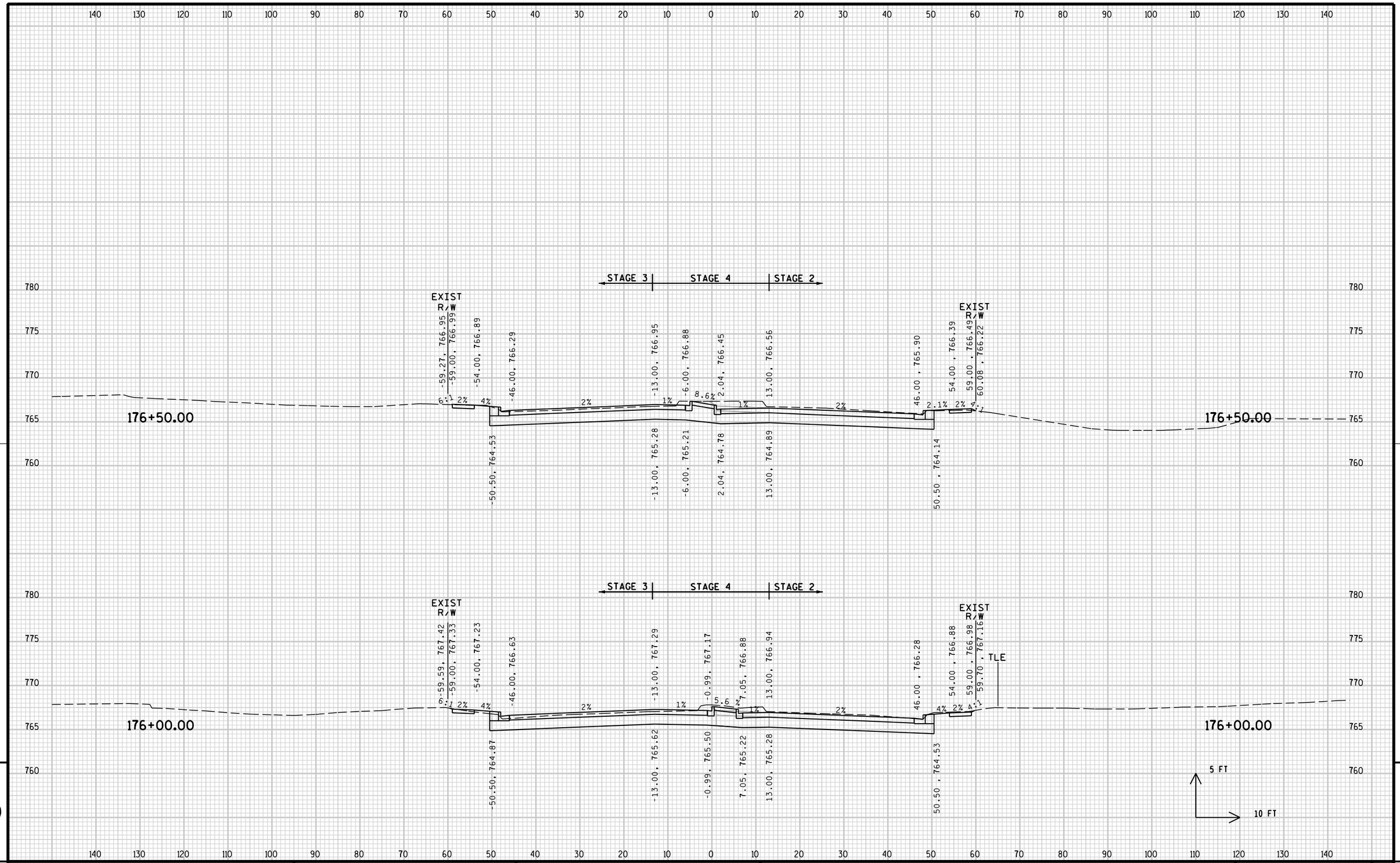


9

9

PROJECT NO: 2140-08-73	HWY: STH 181	COUNTY: MILWAUKEE	CROSS SECTIONS: MAINLINE	SHEET	E

FILE NAME : s:\@sdi\051--100\089\099\micros\design\0873\090201_xs.dgn PLOT DATE : 7/31/2007 PLOT BY : $$...plotuser...$$ PLOT NAME : PLOT SCALE : $$.....plotscale.....$$



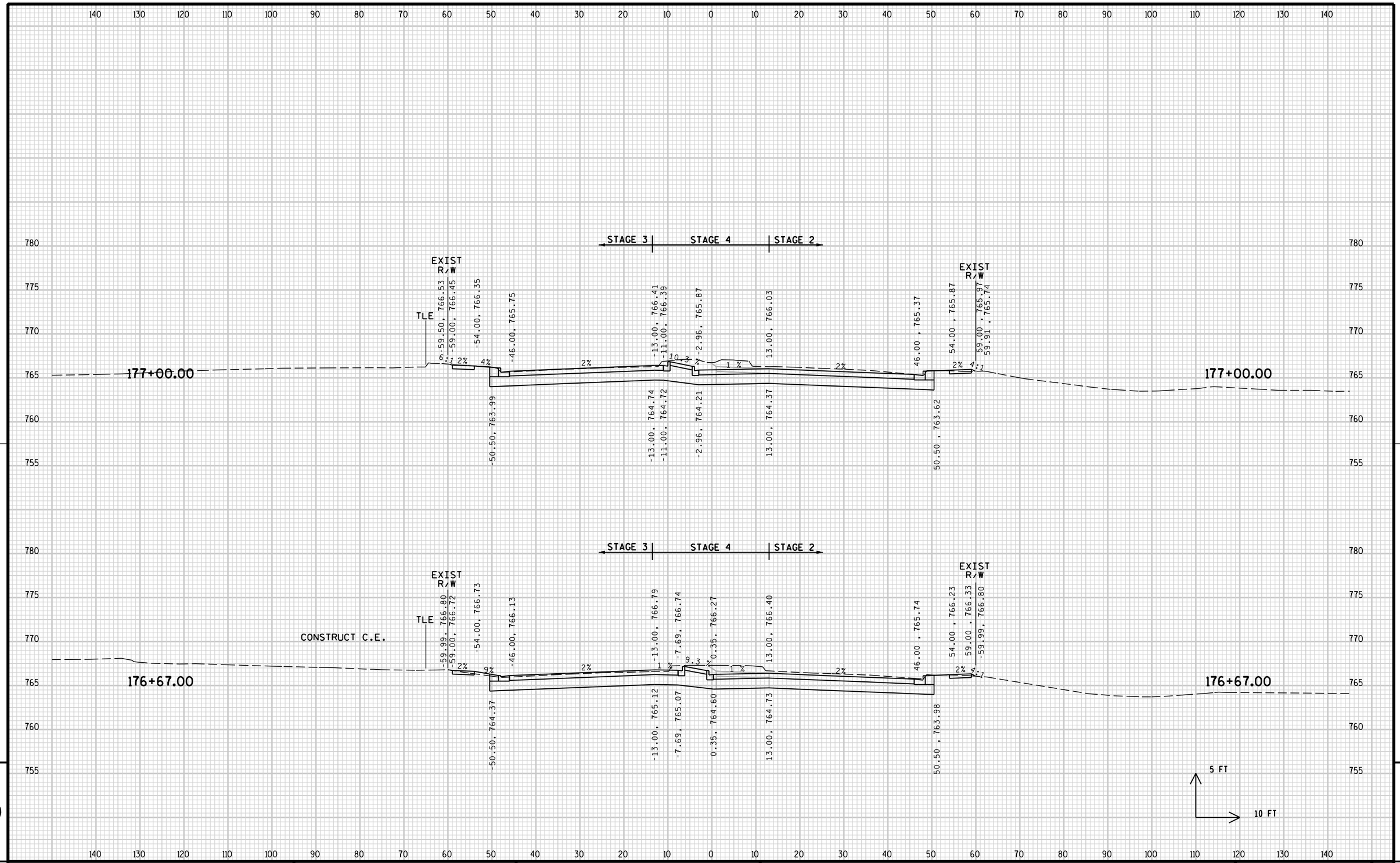
9

9

PROJECT NO: 2140-08-73	HWY: STH 181	COUNTY: MILWAUKEE	CROSS SECTIONS: MAINLINE	SHEET 922	E

FILE NAME : s:\@sdi\051--100\089\099\micros\design\0873\090201_xs.dgn PLOT DATE : 7/31/2007 PLOT BY : $$...plotuser...$$ PLOT NAME : PLOT SCALE : $$.....plotscale.....$$

WISDOT/CADDS SHEET 21

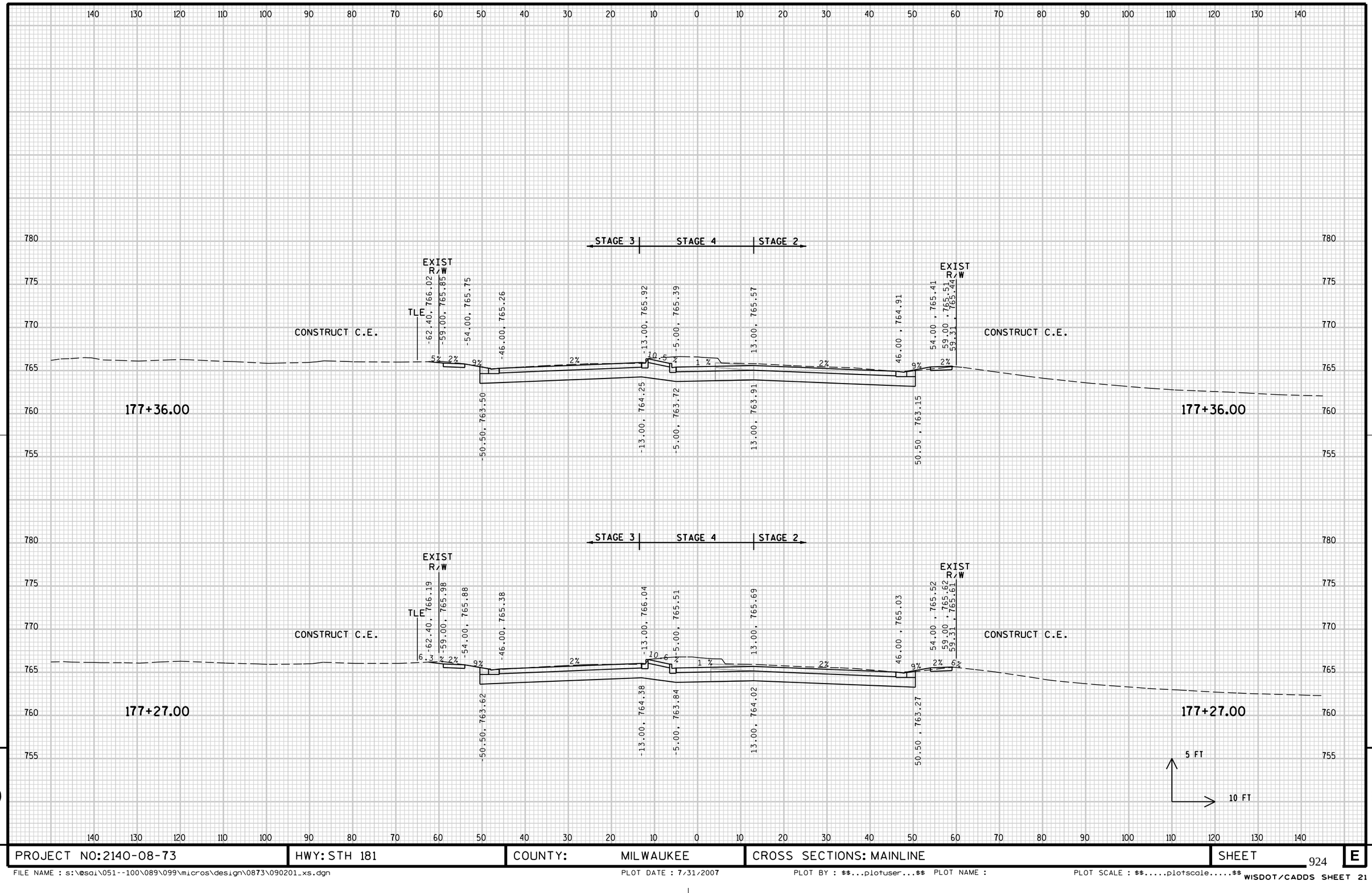


9

9

PROJECT NO: 2140-08-73	HWY: STH 181	COUNTY: MILWAUKEE	CROSS SECTIONS: MAINLINE	SHEET 923	E

FILE NAME : s:\@sdi\051--100\089\099\micros\design\0873\090201_xs.dgn PLOT DATE : 7/31/2007 PLOT BY : $$...plotuser...$$ PLOT NAME : PLOT SCALE : $$.....plotscale.....$$ WISDOT/CADDS SHEET 21

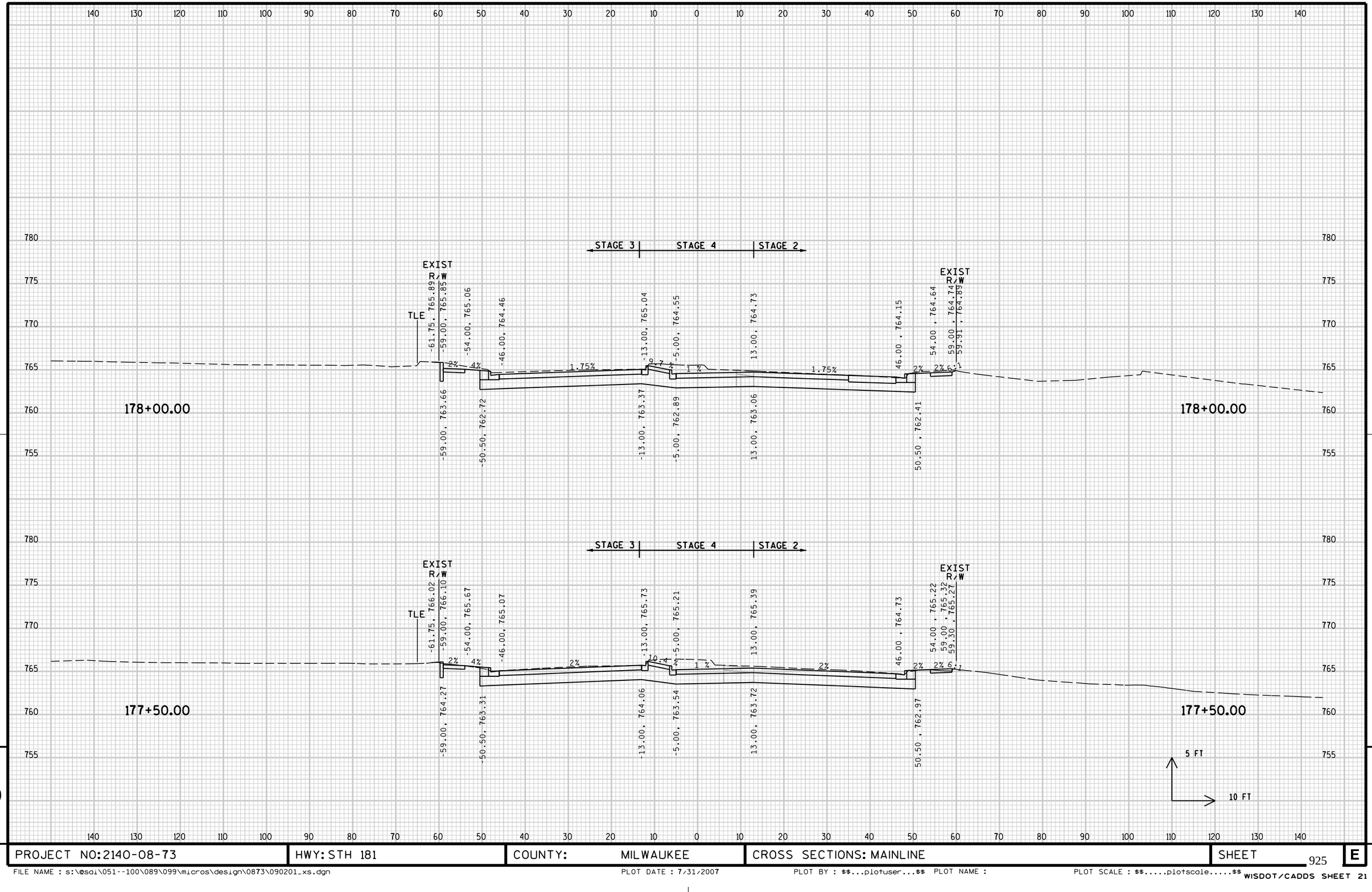


9

9

PROJECT NO: 2140-08-73	HWY: STH 181	COUNTY: MILWAUKEE	CROSS SECTIONS: MAINLINE	SHEET	E

FILE NAME : s:\@sdi\051--100\089\099\micros\design\0873\090201_xs.dgn PLOT DATE : 7/31/2007 PLOT BY : $$...plotuser...$$ PLOT NAME : PLOT SCALE : $$.....plotscale.....$$ WISDOT/CADDS SHEET 21

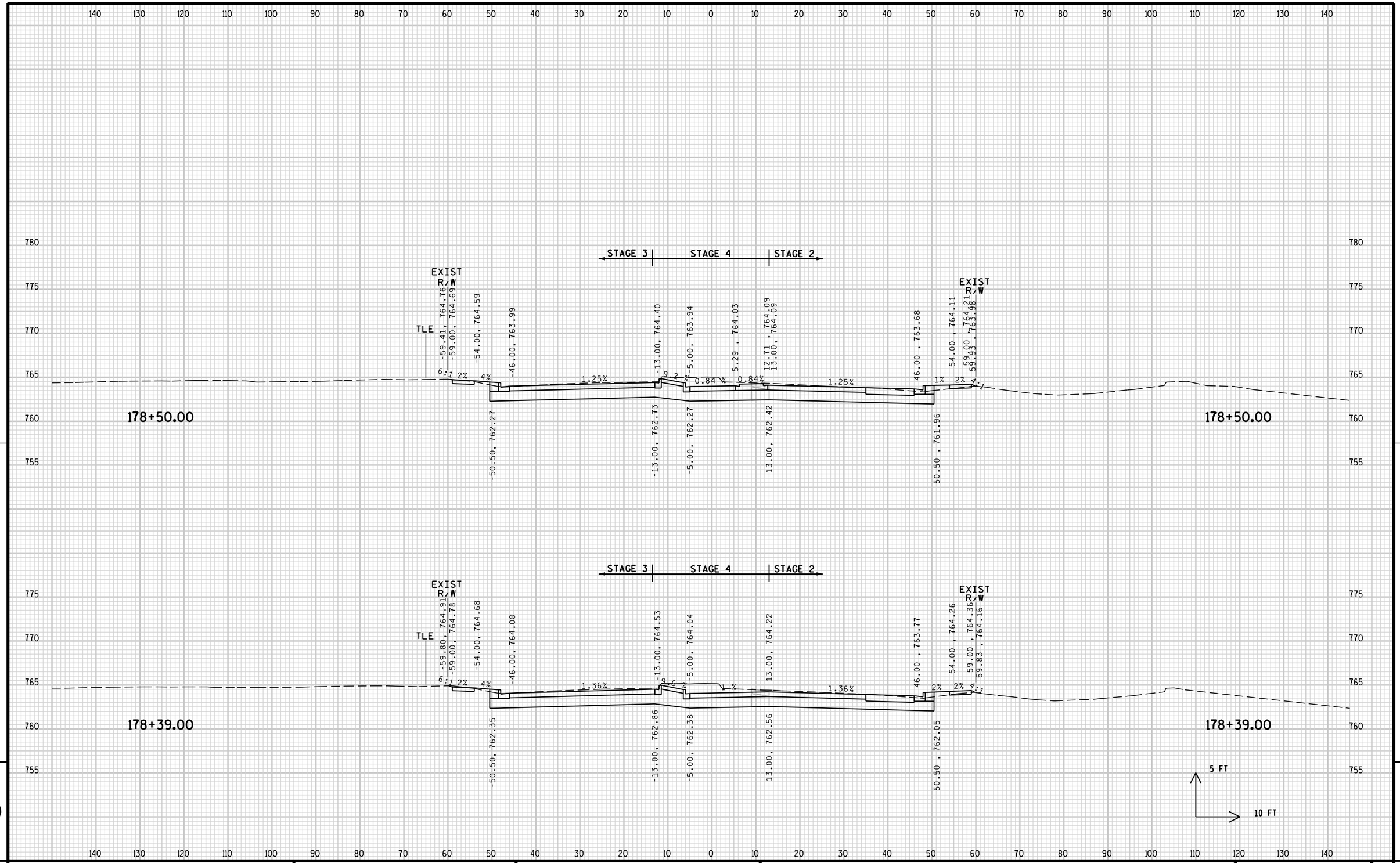


9

9

PROJECT NO: 2140-08-73	HWY: STH 181	COUNTY: MILWAUKEE	CROSS SECTIONS: MAINLINE	SHEET 925	E

FILE NAME : s:\@sai\051--100\089\099\micros\design\0873\090201_xs.dgn PLOT DATE : 7/31/2007 PLOT BY : $$...plotuser...$$ PLOT NAME : PLOT SCALE : $$.....plotscale.....$$ WISDOT/CADDS SHEET 21



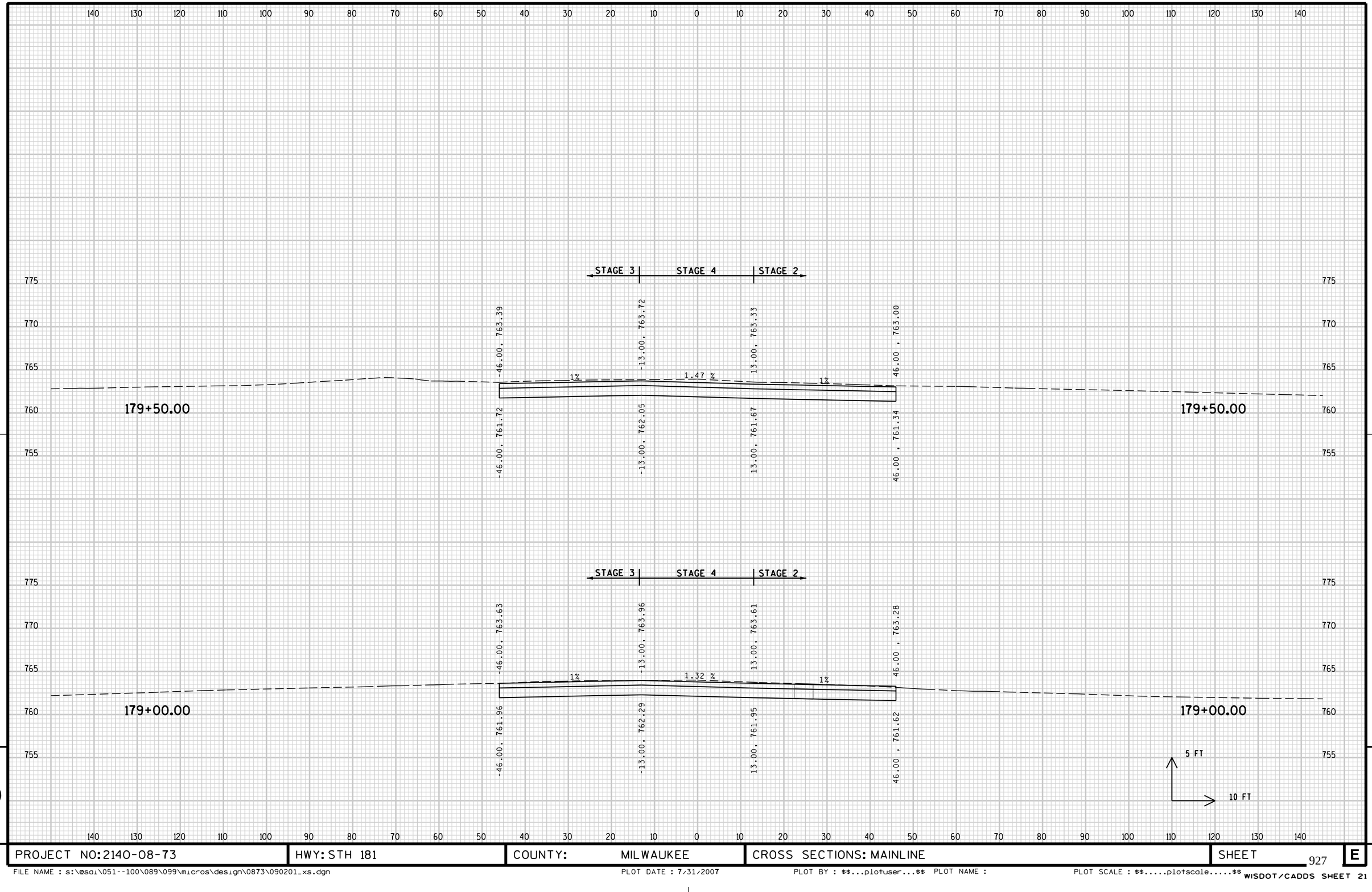
9

9

PROJECT NO: 2140-08-73	HWY: STH 181	COUNTY: MILWAUKEE	CROSS SECTIONS: MAINLINE	SHEET	E

FILE NAME : s:\@sai\051--100\089\099\micros\design\0873\090201_xs.dgn PLOT DATE : 7/31/2007 PLOT BY : $$...plotuser...$$ PLOT NAME : PLOT SCALE : $$.....plotscale.....$$

WISDOT/CADDS SHEET 21



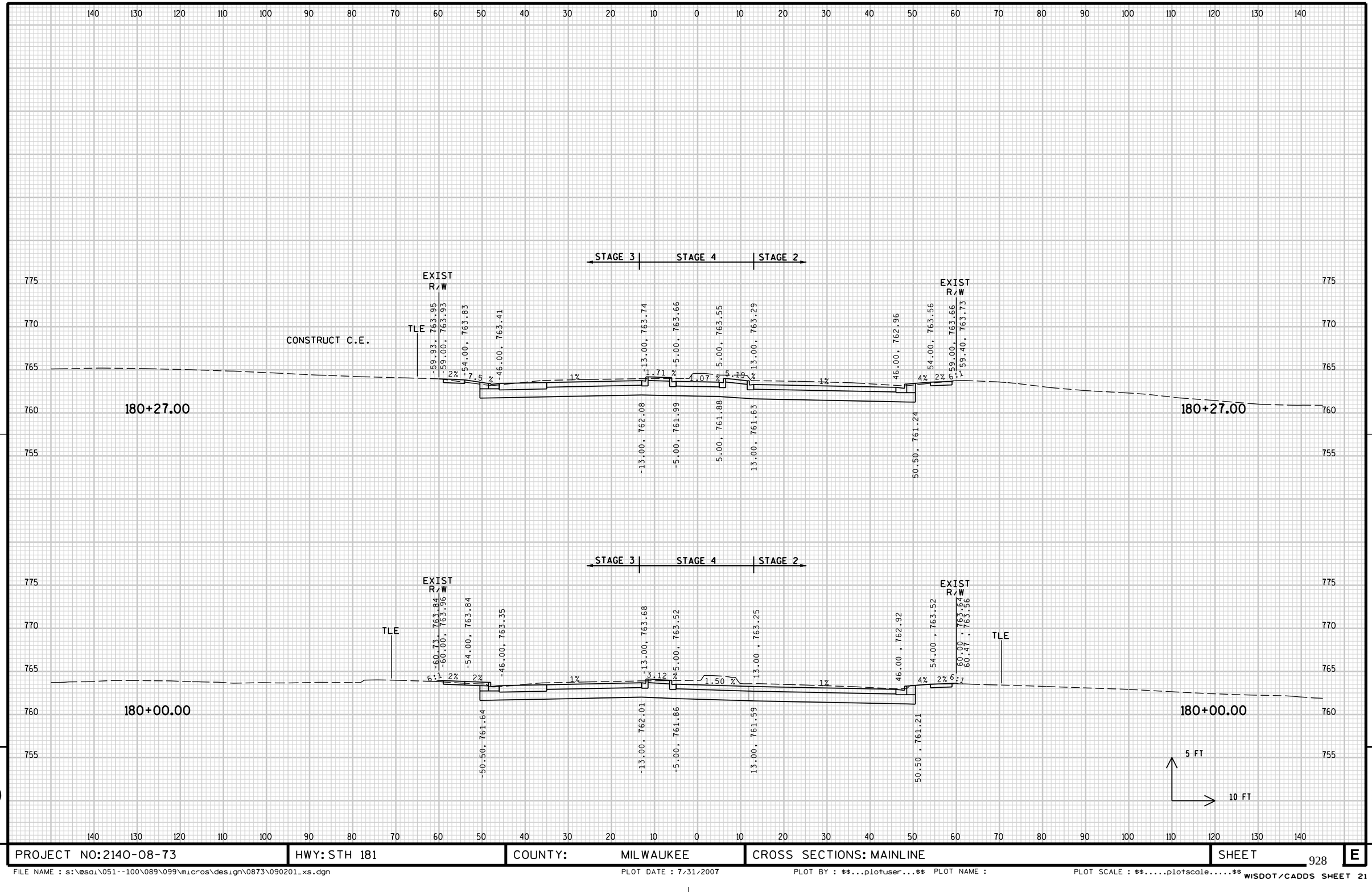
9

9

PROJECT NO: 2140-08-73	HWY: STH 181	COUNTY: MILWAUKEE	CROSS SECTIONS: MAINLINE	SHEET 927	E

FILE NAME : s:\@sdi\051--100\089\099\micros\design\0873\090201_xs.dgn PLOT DATE : 7/31/2007 PLOT BY : $$...plotuser...$$ PLOT NAME : PLOT SCALE : $$.....plotscale.....$$

WISDOT/CADDS SHEET 21

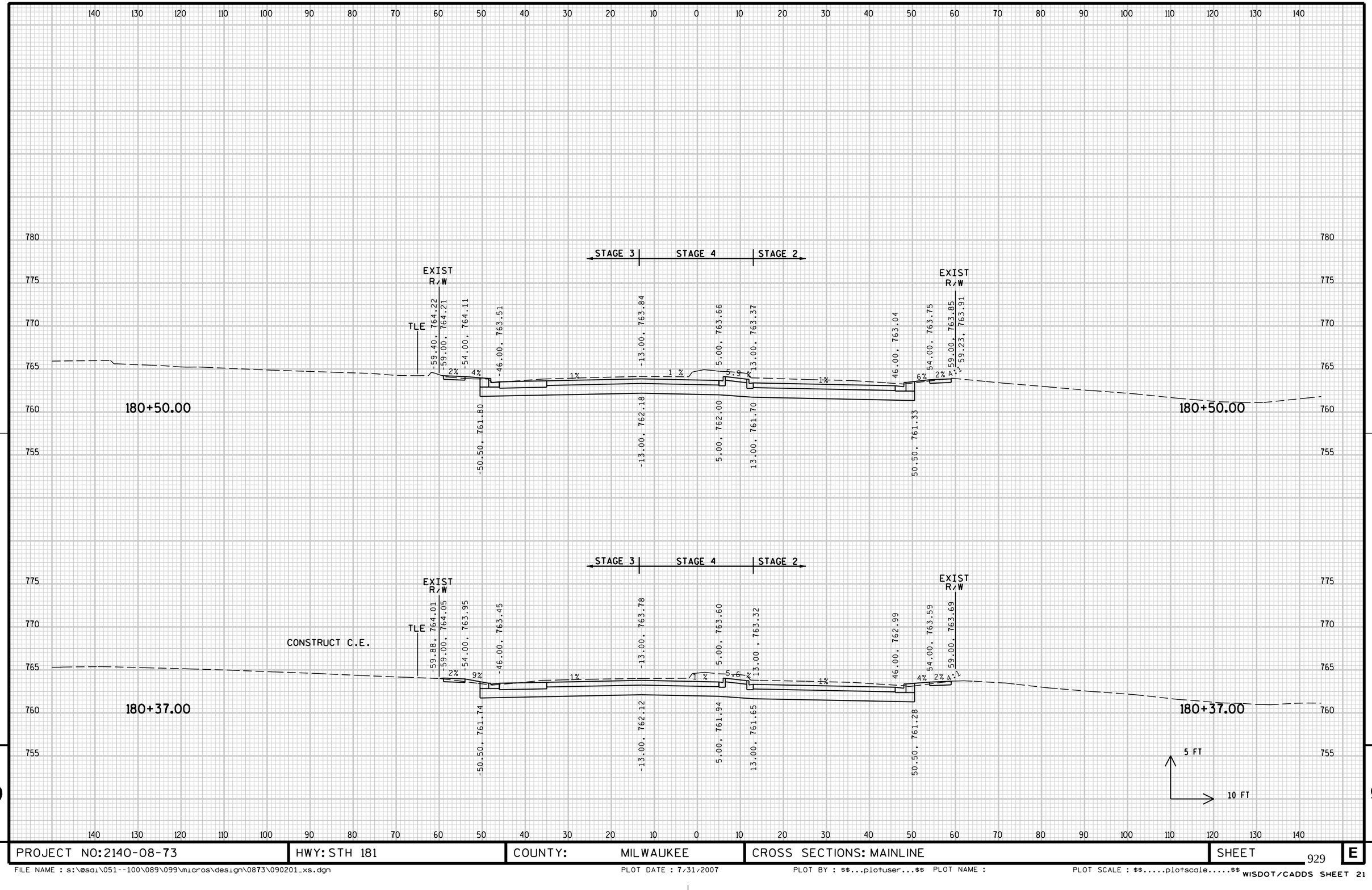


9

9

PROJECT NO:2140-08-73	HWY: STH 181	COUNTY: MILWAUKEE	CROSS SECTIONS: MAINLINE	SHEET 928	E

FILE NAME : s:\@sdi\051--100\089\099\micros\design\0873\090201_xs.dgn PLOT DATE : 7/31/2007 PLOT BY : $$...plotuser...$$ PLOT NAME : PLOT SCALE : $$.....plotscale.....$$ WISDOT/CADDS SHEET 21



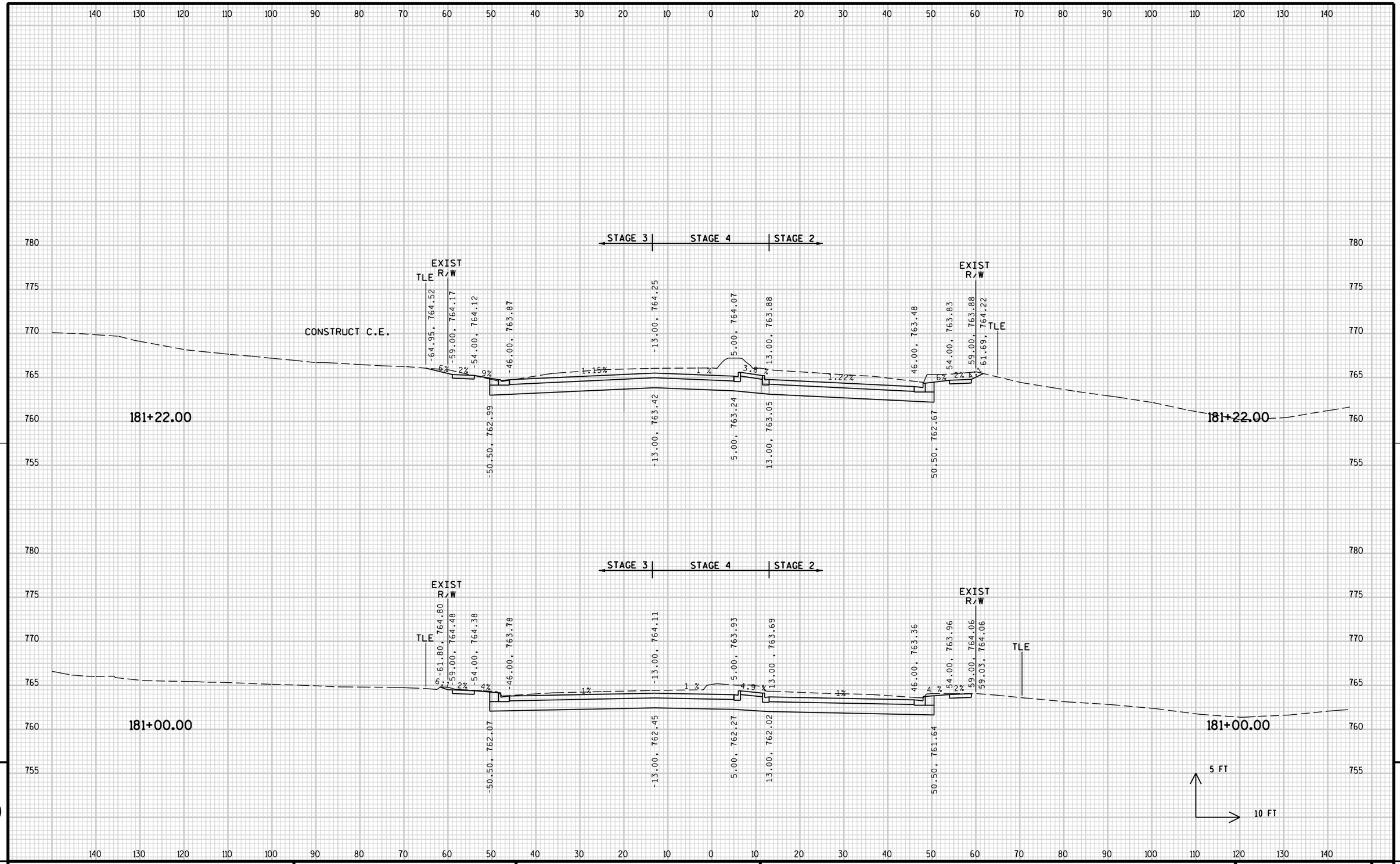
9

9

PROJECT NO: 2140-08-73	HWY: STH 181	COUNTY: MILWAUKEE	CROSS SECTIONS: MAINLINE	SHEET 929	E

FILE NAME : s:\@sai\051--100\089\099\micros\design\0873\090201_xs.dgn PLOT DATE : 7/31/2007 PLOT BY : $$...plotuser...$$ PLOT NAME : PLOT SCALE : $$.....plotscale.....$$

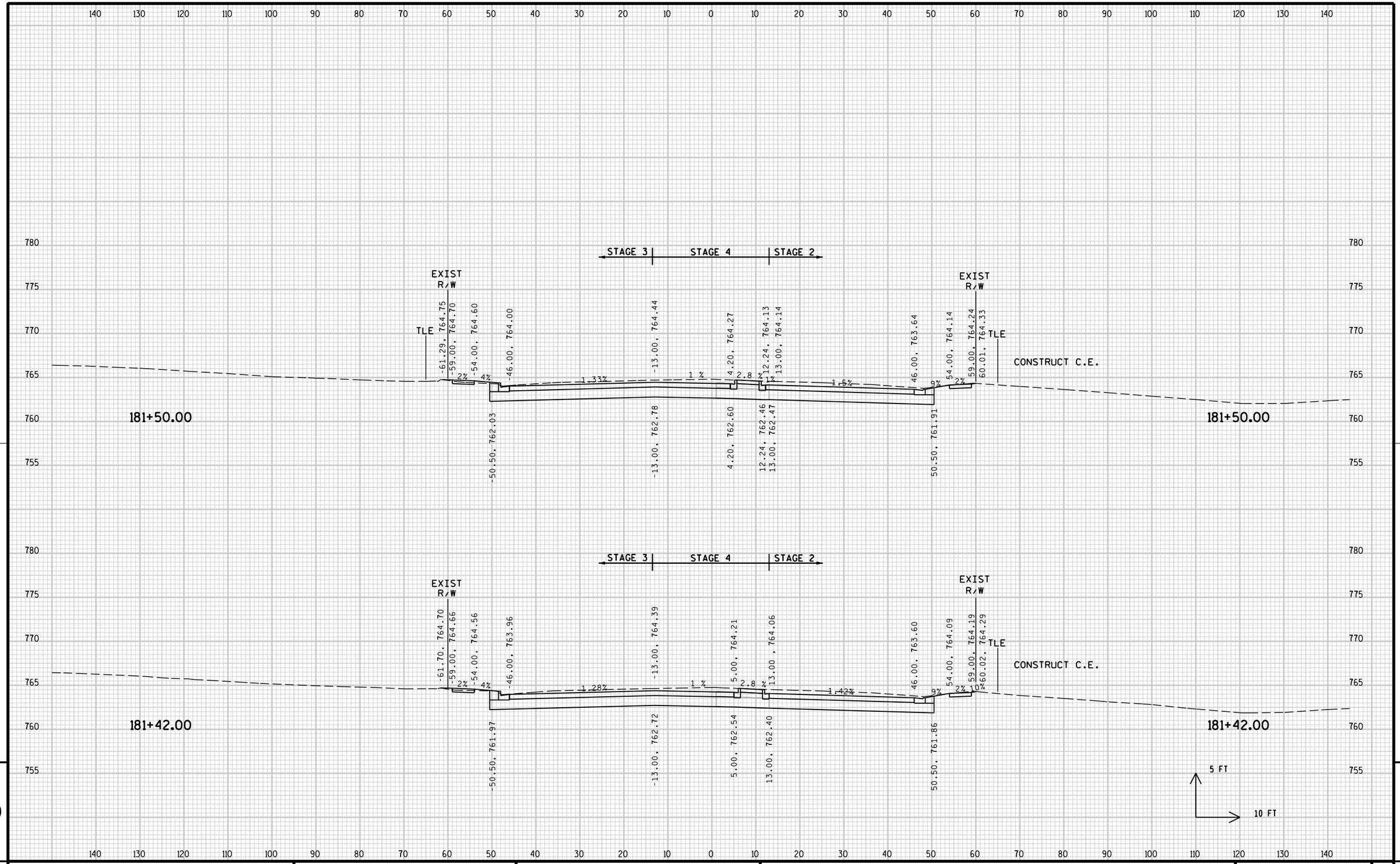
WISDOT/CADDS SHEET 21



9

9

PROJECT NO: 2140-08-73	HWY: STH 181	COUNTY: MILWAUKEE	CROSS SECTIONS: MAINLINE	SHEET 930	E



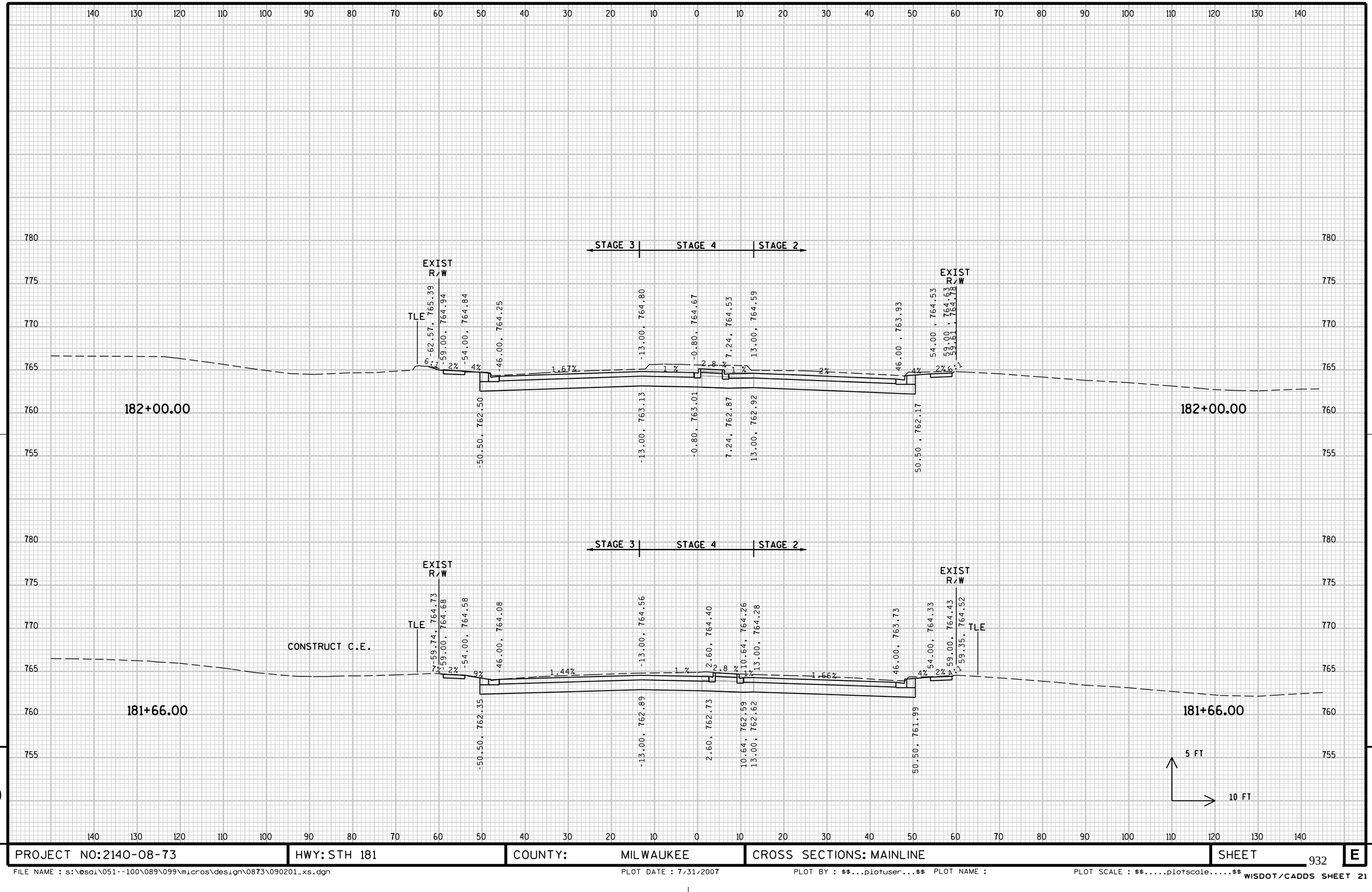
9

9

PROJECT NO: 2140-08-73	HWY: STH 181	COUNTY: MILWAUKEE	CROSS SECTIONS: MAINLINE	SHEET 931	E

FILE NAME : s:\@sai\051--100\089\099\micros\design\0873\090201_xs.dgn PLOT DATE : 7/31/2007 PLOT BY : $$...plotuser...$$ PLOT NAME : PLOT SCALE : $$.....plotscale.....$$

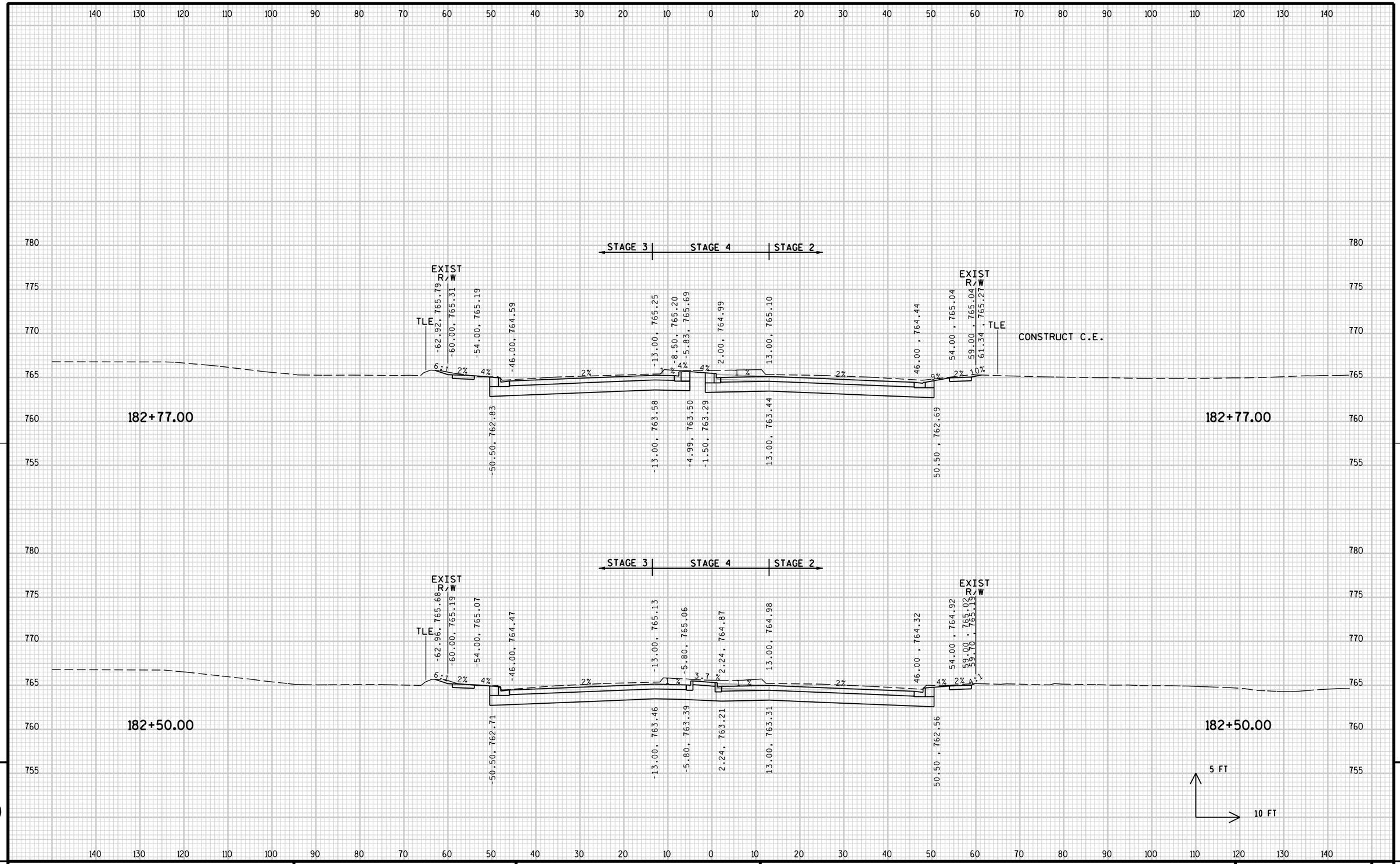
WISDOT/CADDS SHEET 21



PROJECT NO: 2140-08-73	HWY: STH 181	COUNTY: MILWAUKEE	CROSS SECTIONS: MAINLINE	SHEET 932	E

FILE NAME : s:\@sai\051--100\089\099\micros\design\0873\090201_xs.dgn PLOT DATE : 7/31/2007 PLOT BY : $$...plotuser...$$ PLOT NAME : PLOT SCALE : $$.....plotscale.....$$

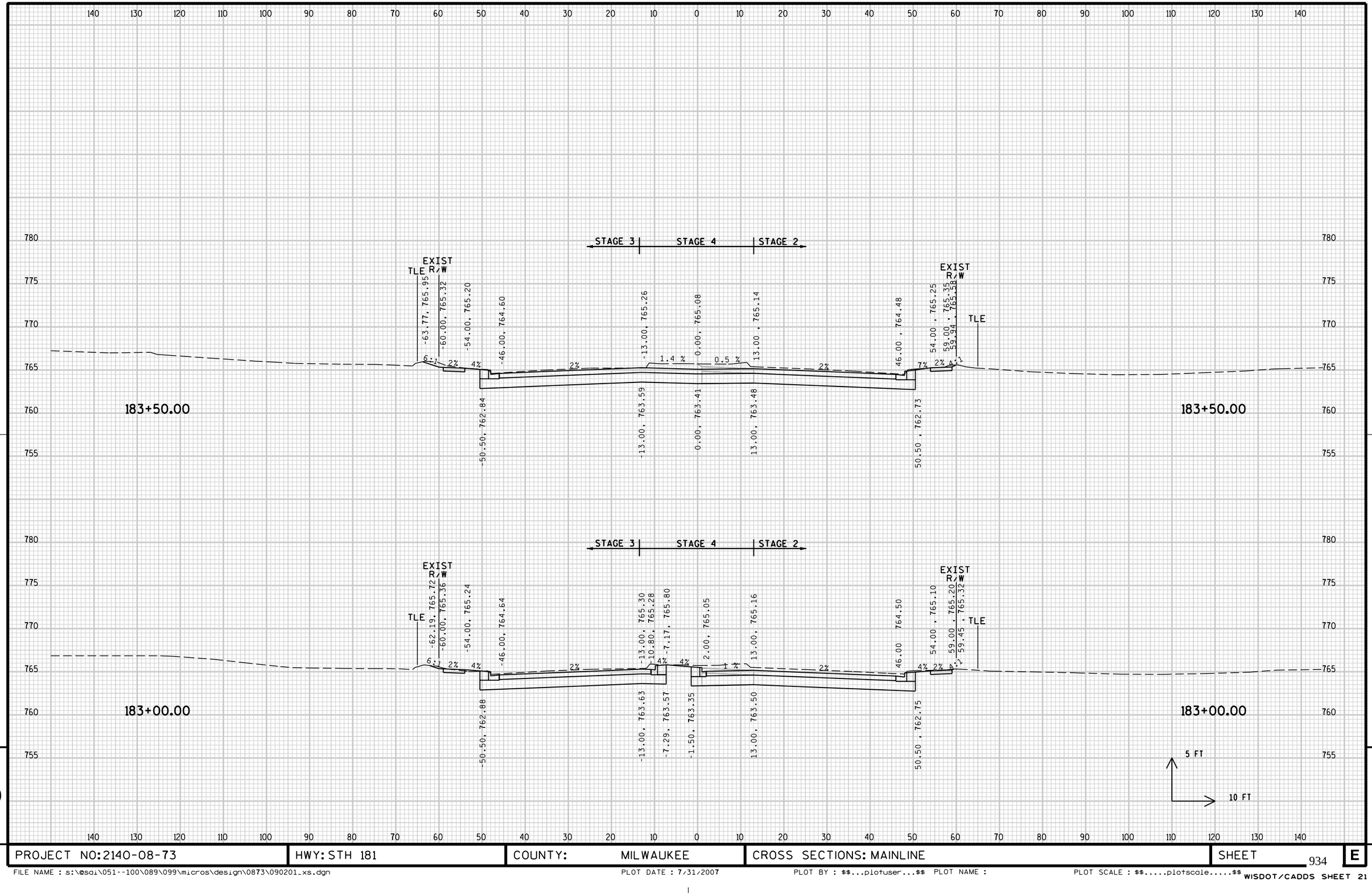
WISDOT/CADDS SHEET 21



PROJECT NO: 2140-08-73	HWY: STH 181	COUNTY: MILWAUKEE	CROSS SECTIONS: MAINLINE	SHEET 933 E

FILE NAME : s:\@sai\051--100\089\099\micros\design\0873\090201_xs.dgn PLOT DATE : 7/31/2007 PLOT BY : $$...plotuser...$$ PLOT NAME : PLOT SCALE : $$.....plotscale.....$$

WISDOT/CADDS SHEET 21



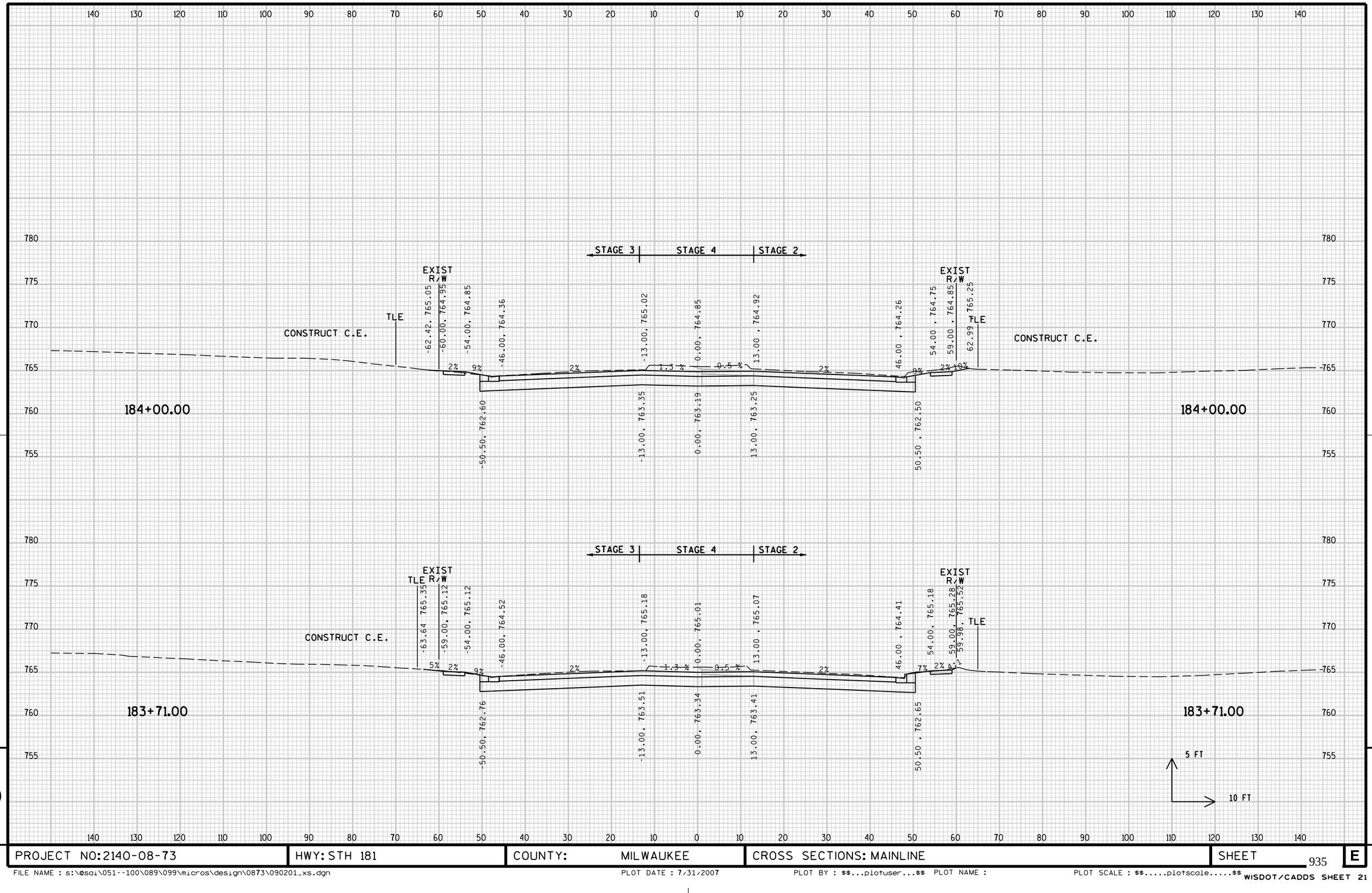
9

9

PROJECT NO: 2140-08-73	HWY: STH 181	COUNTY: MILWAUKEE	CROSS SECTIONS: MAINLINE	SHEET 934	E

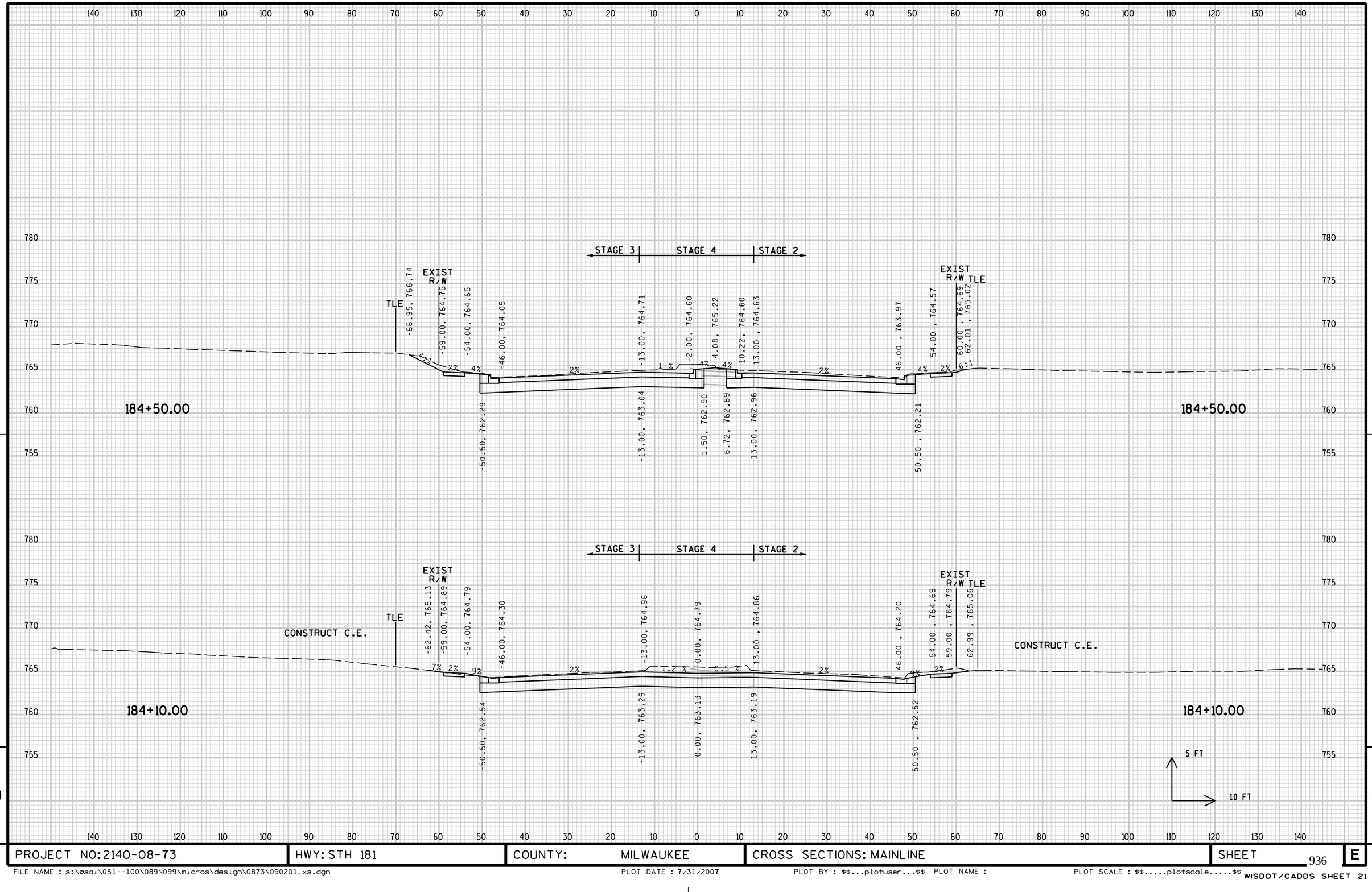
FILE NAME : s:\@sai\051--100\089\099\micros\design\0873\090201_xs.dgn PLOT DATE : 7/31/2007 PLOT BY : $$...plotuser...$$ PLOT NAME : PLOT SCALE : $$.....plotscale.....$$

WISDOT/CADDS SHEET 21



PROJECT NO: 2140-08-73	HWY: STH 181	COUNTY: MILWAUKEE	CROSS SECTIONS: MAINLINE	SHEET	E

FILE NAME : s:\@sdi\051--100\089\099\micros\design\0873\090201_xs.dgn PLOT DATE : 7/31/2007 PLOT BY : $$...plotuser...$$ PLOT NAME : PLOT SCALE : $$.....plotscale.....$$ WISDOT/CADDS SHEET 21



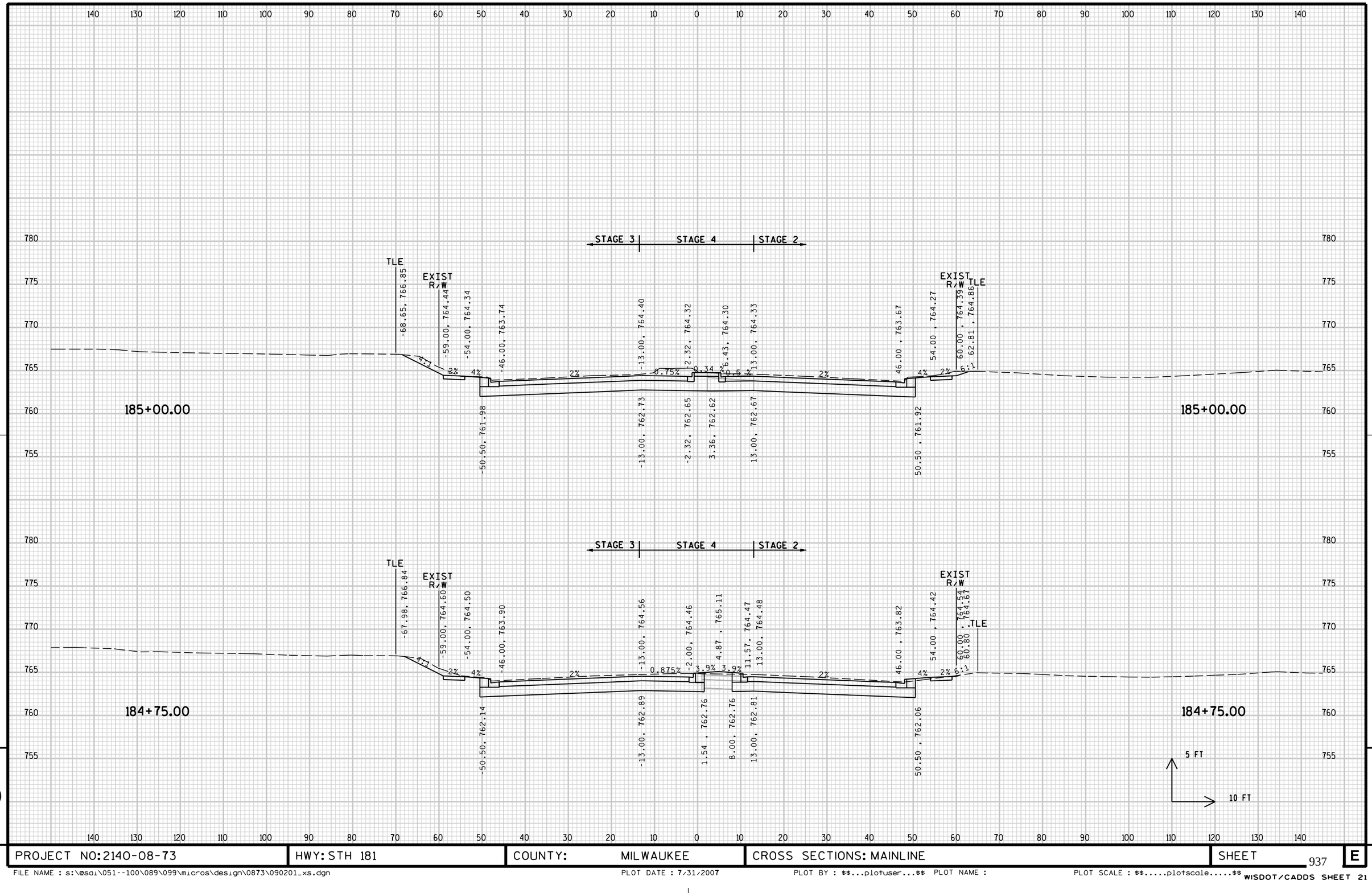
9

9

PROJECT NO: 2140-08-73	HWY: STH 181	COUNTY: MILWAUKEE	CROSS SECTIONS: MAINLINE	SHEET 936	E

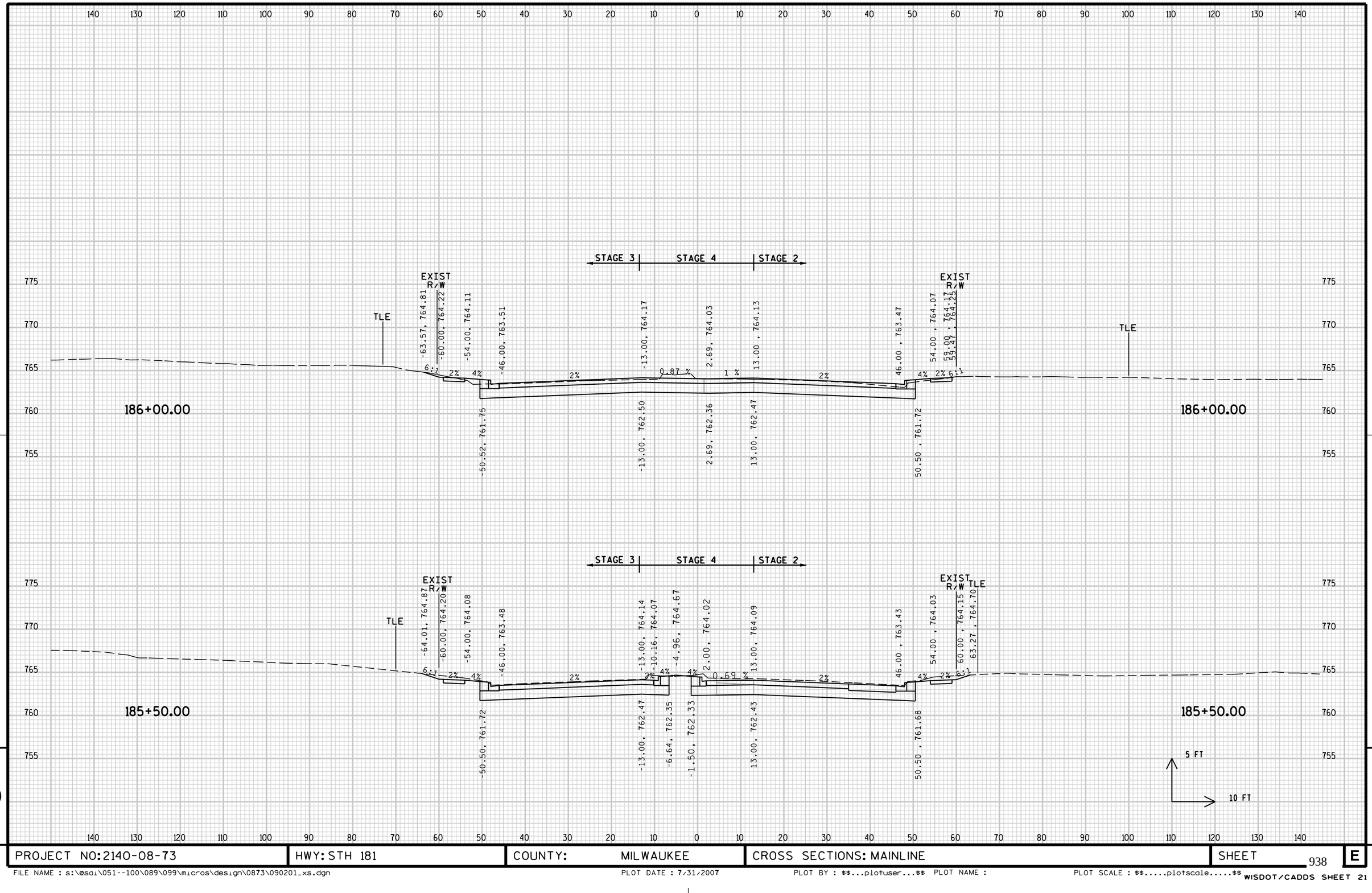
FILE NAME : s:\@sai\051--100\089\099\micros\design\0873\090201_xs.dgn PLOT DATE : 7/31/2007 PLOT BY : $$...plotuser...$$ PLOT NAME : PLOT SCALE : $$.....plotscale.....$$

WISDOT/CADDS SHEET 21



PROJECT NO: 2140-08-73	HWY: STH 181	COUNTY: MILWAUKEE	CROSS SECTIONS: MAINLINE	SHEET 937	E

FILE NAME : s:\@sai\051--100\089\099\micros\design\0873\090201_xs.dgn PLOT DATE : 7/31/2007 PLOT BY : $$...plotuser...$$ PLOT NAME : PLOT SCALE : $$.....plotscale.....$$ WISDOT/CADDS SHEET 21

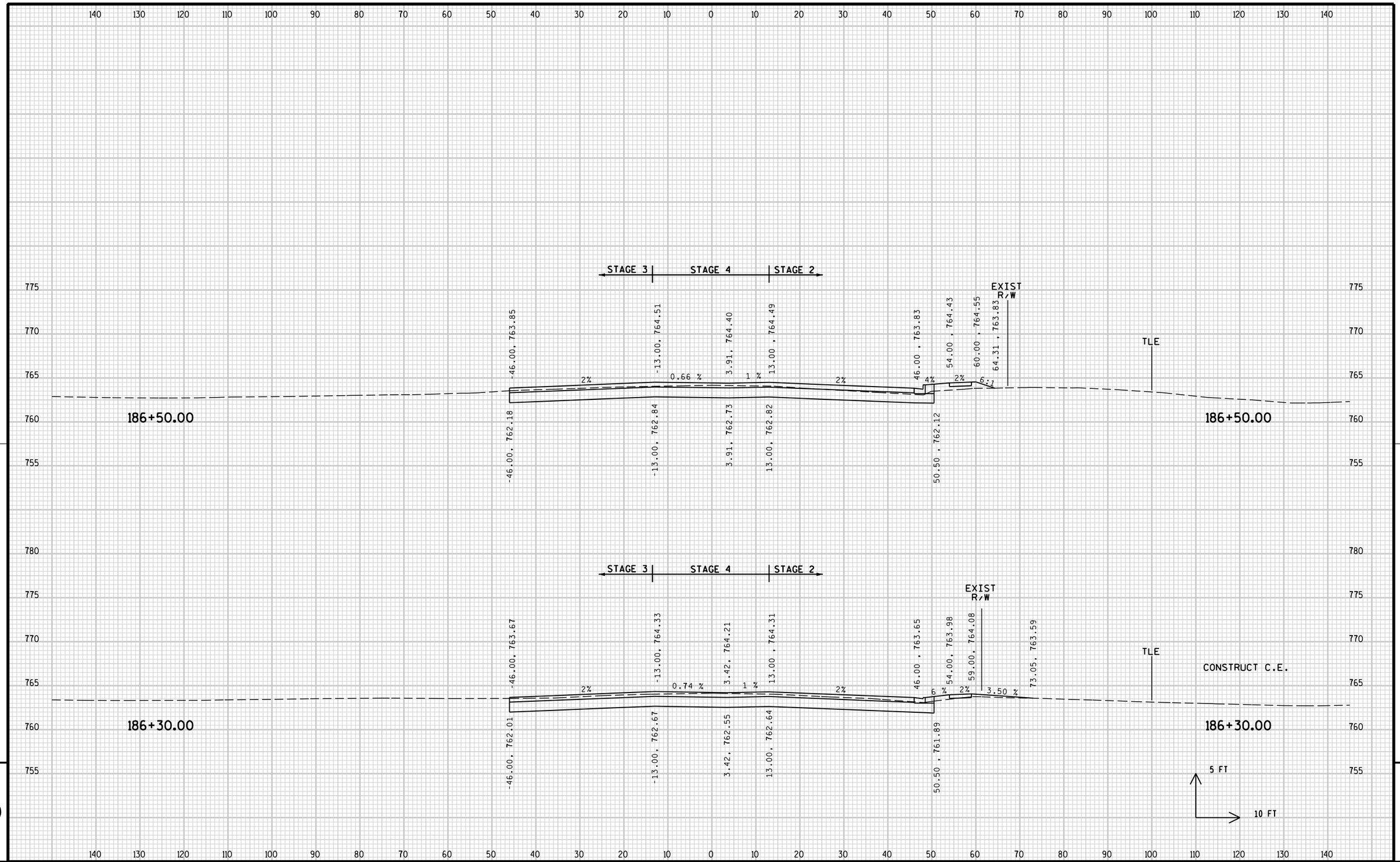


9

9

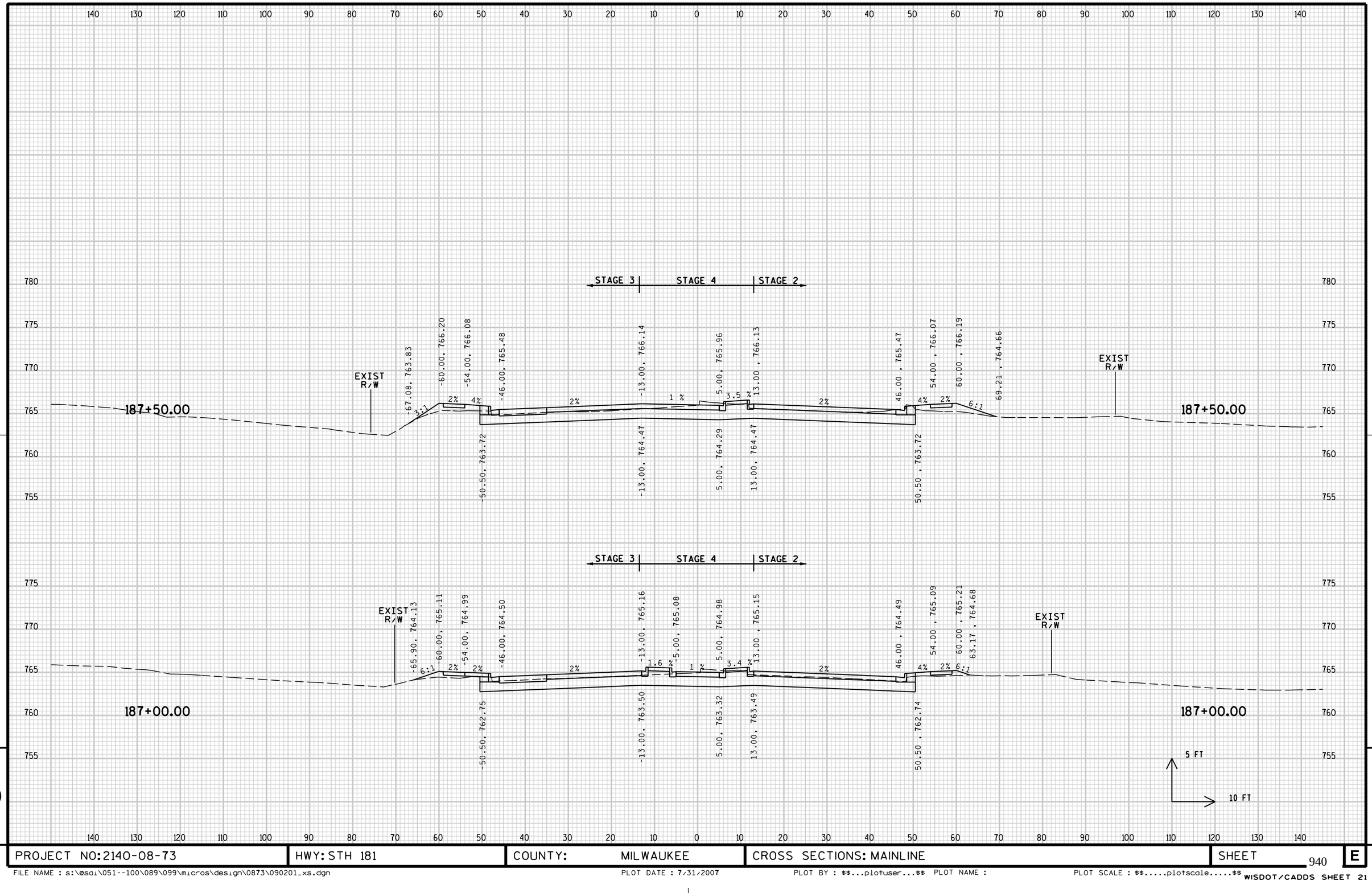
PROJECT NO: 2140-08-73	HWY: STH 181	COUNTY: MILWAUKEE	CROSS SECTIONS: MAINLINE	SHEET 938	E

FILE NAME : s:\@sai\051--100\089\099\micros\design\0873\090201_xs.dgn PLOT DATE : 7/31/2007 PLOT BY : $$...plotuser...$$ PLOT NAME : PLOT SCALE : $$.....plotscale.....$$ WISDOT/CADDS SHEET 21



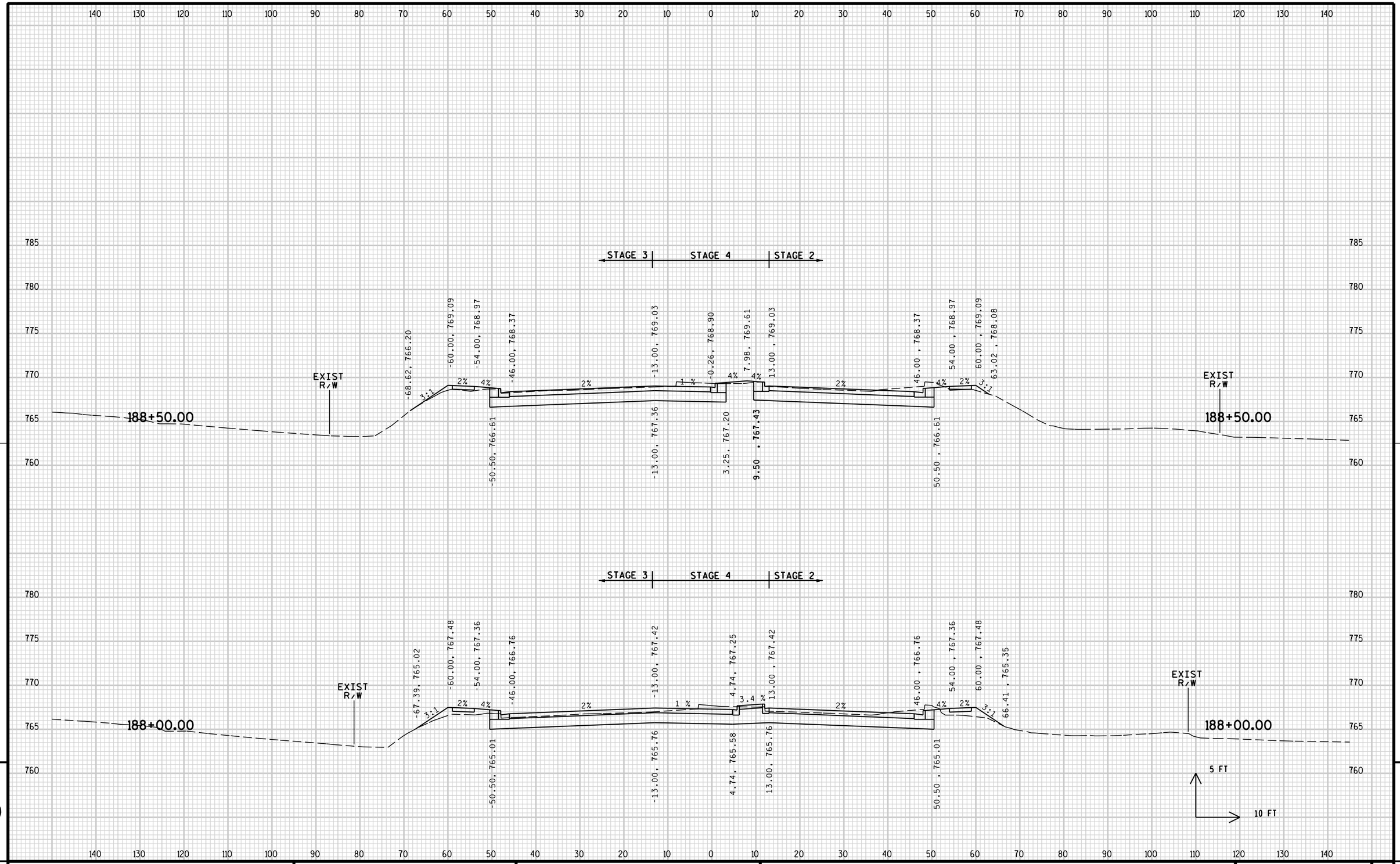
PROJECT NO: 2140-08-73	HWY: STH 181	COUNTY: MILWAUKEE	CROSS SECTIONS: MAINLINE	SHEET 939	E

FILE NAME : s:\@sai\051--100\089\099\micros\design\0873\090201_xs.dgn PLOT DATE : 7/31/2007 PLOT BY : $$...plotuser...$$ PLOT NAME : PLOT SCALE : $$.....plotscale.....$$ WISDOT/CADDS SHEET 21



PROJECT NO: 2140-08-73	HWY: STH 181	COUNTY: MILWAUKEE	CROSS SECTIONS: MAINLINE	SHEET 940	E

FILE NAME : s:\@sdi\051--100\089\099\micros\design\0873\090201_xs.dgn PLOT DATE : 7/31/2007 PLOT BY : $$...plotuser...$$ PLOT NAME : PLOT SCALE : $$.....plotscale.....$$ WISDOT/CADDS SHEET 21



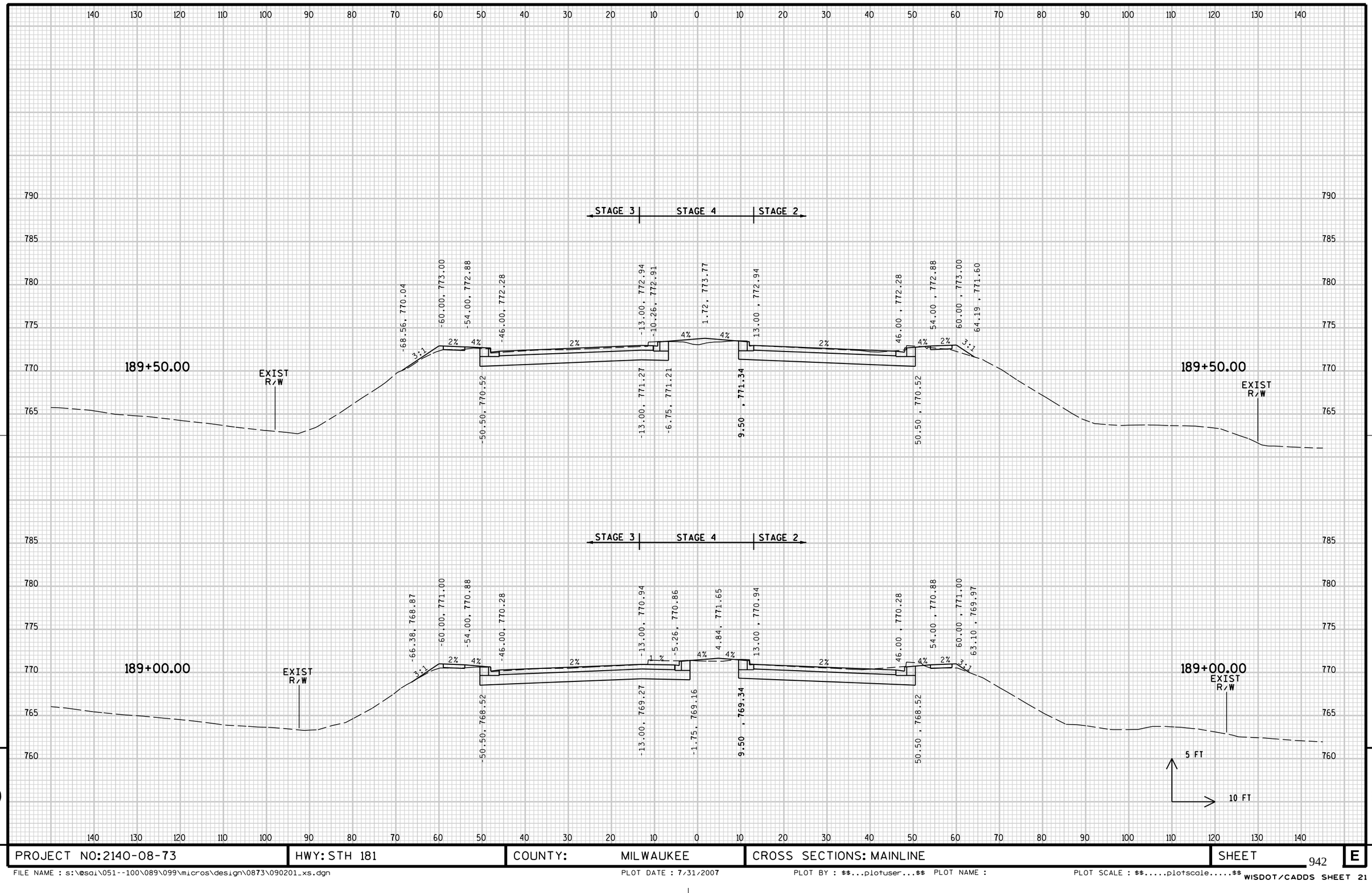
9

9

PROJECT NO: 2140-08-73	HWY: STH 181	COUNTY: MILWAUKEE	CROSS SECTIONS: MAINLINE	SHEET 941	E

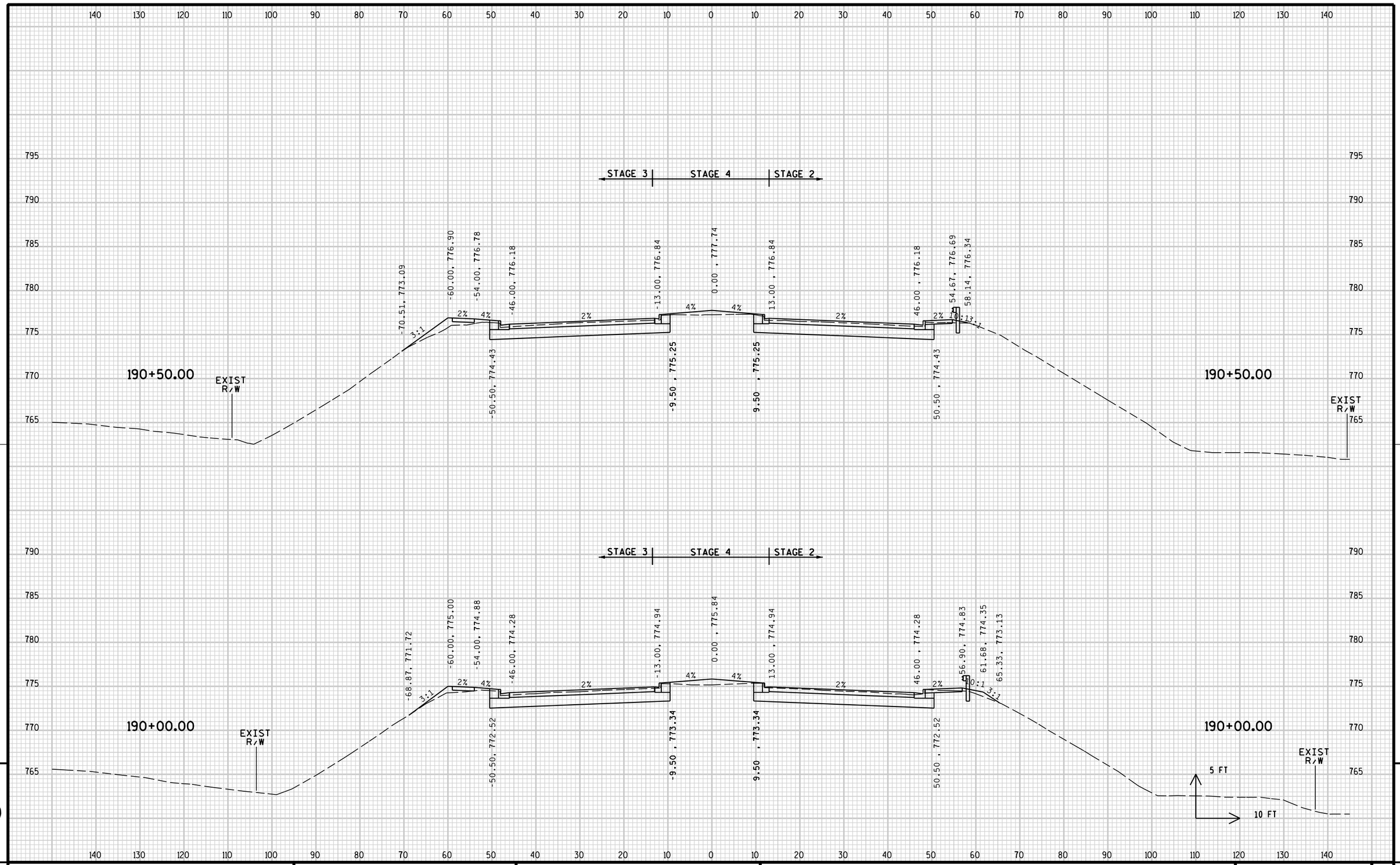
FILE NAME : s:\@sai\051--100\089\099\micros\design\0873\090201_xs.dgn PLOT DATE : 7/31/2007 PLOT BY : $$...plotuser...$$ PLOT NAME : PLOT SCALE : $$.....plotscale.....$$

WISDOT/CADDS SHEET 21



PROJECT NO: 2140-08-73	HWY: STH 181	COUNTY: MILWAUKEE	CROSS SECTIONS: MAINLINE	SHEET	E

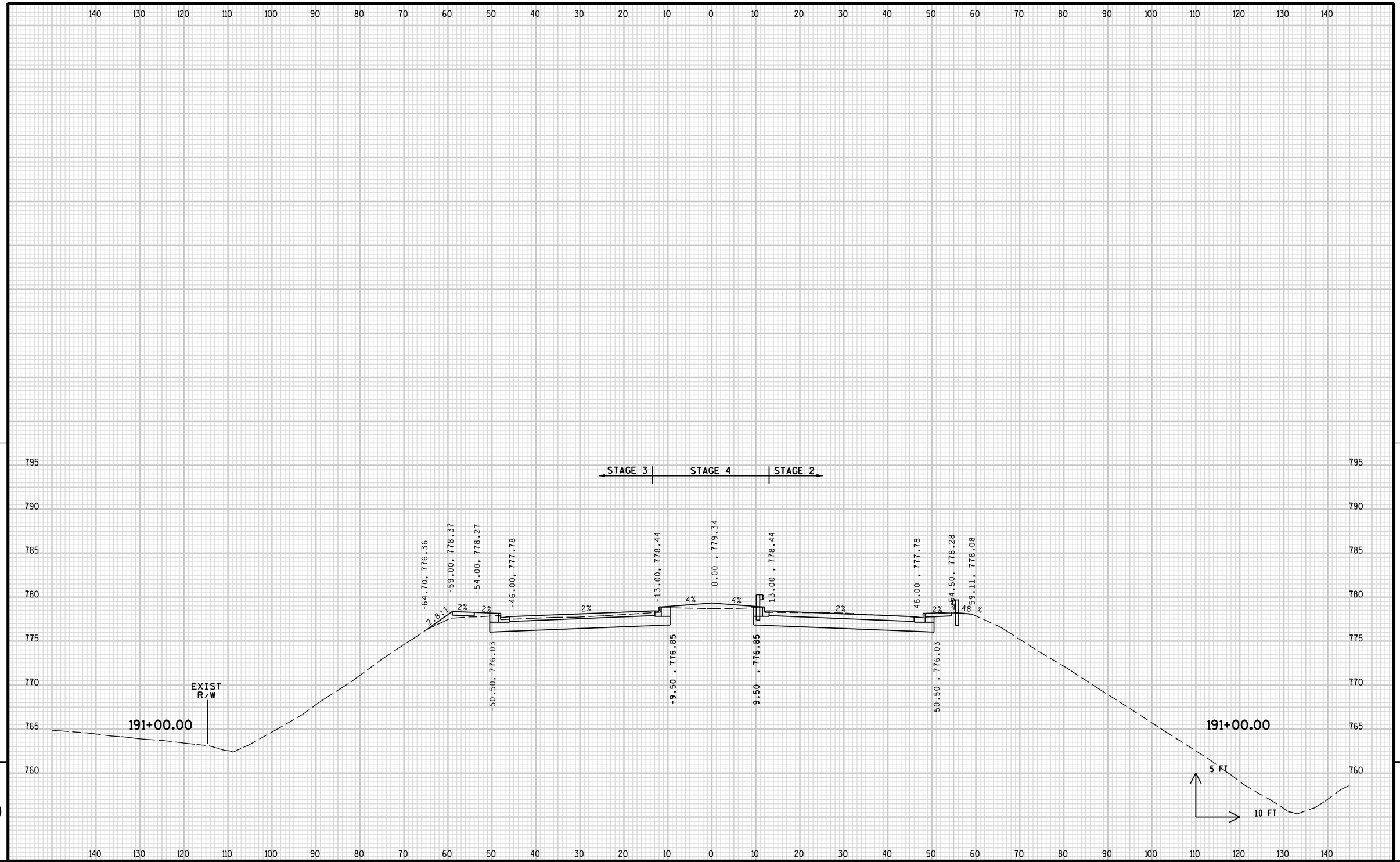
FILE NAME : s:\@sdi\051--100\089\099\micros\design\0873\090201_xs.dgn PLOT DATE : 7/31/2007 PLOT BY : $$...plotuser...$$ PLOT NAME : PLOT SCALE : $$.....plotscale.....$$ WISDOT/CADDS SHEET 21



PROJECT NO:2140-08-73	HWY: STH 181	COUNTY: MILWAUKEE	CROSS SECTIONS: MAINLINE	SHEET	E

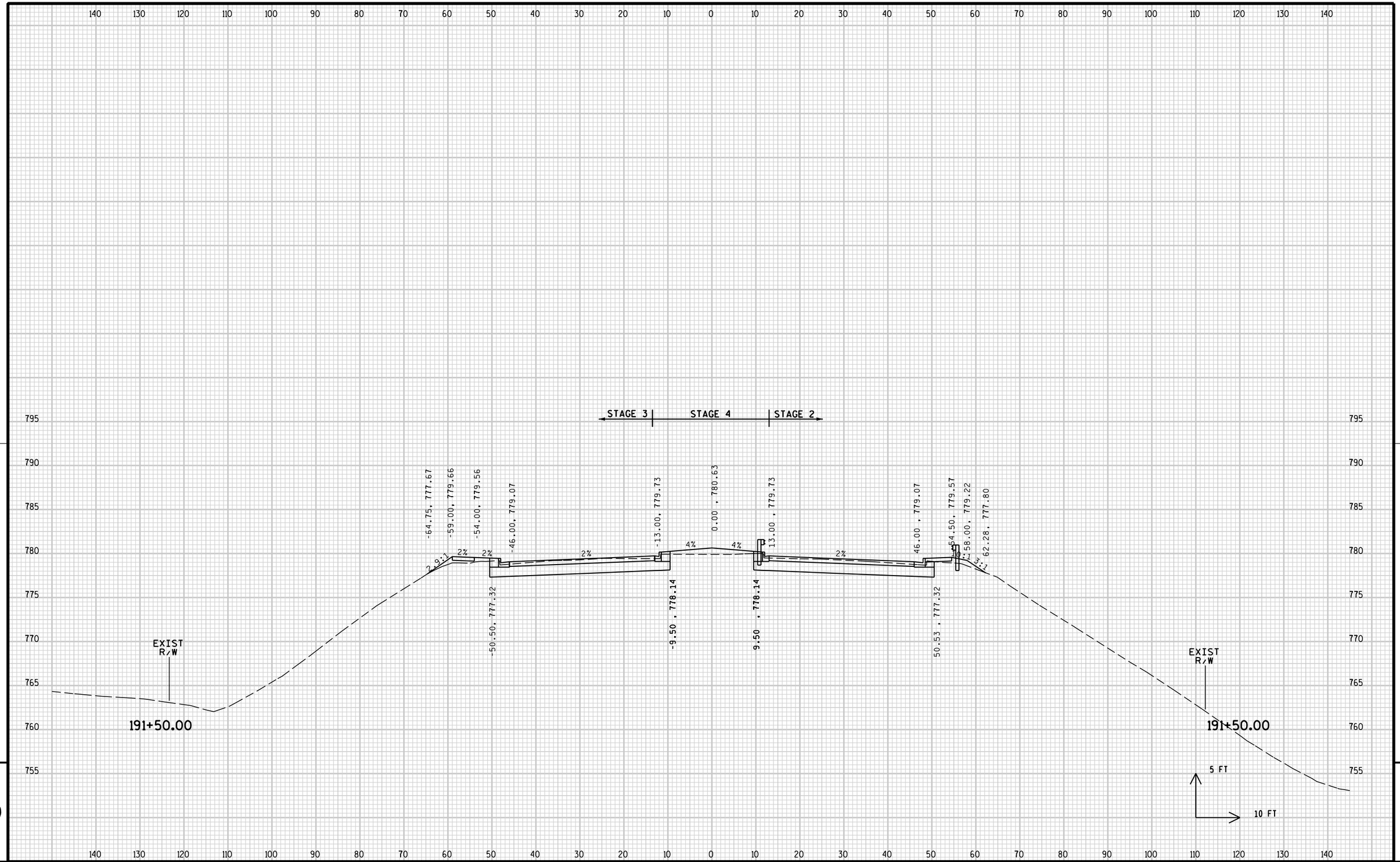
FILE NAME : s:\@sdi\051--100\089\099\micros\design\0873\090201_xs.dgn PLOT DATE : 7/31/2007 PLOT BY : $$...plotuser...$$ PLOT NAME : PLOT SCALE : $$.....plotscale.....$$

WISDOT/CADDS SHEET 21



9 9

PROJECT NO:2140-08-73	HWY: STH 181	COUNTY: MILWAUKEE	CROSS SECTIONS: MAINLINE	SHEET 944	E



PROJECT NO:2140-08-73	HWY: STH 181	COUNTY: MILWAUKEE	CROSS SECTIONS: MAINLINE	SHEET 945	E

FILE NAME : s:\@sai\051--100\089\099\micros\design\0873\090201_xs.dgn PLOT DATE : 7/31/2007 PLOT BY : $$...plotuser...$$ PLOT NAME : PLOT SCALE : $$.....plotscale.....$$

EXISTING STRUCTURE B-40-380
BEGIN STA. 192+12.79

STAGE 3 | STAGE 4 | STAGE 2

EXISTING STRUCTURE
B-40-381 TO REMAIN

-63.72, 779.05
-59.00, 780.76
-54.00, 780.66
-46.00, 780.06
-50.50, 778.30
-13.00, 780.72
0.00 , 781.62
-9.50 , 779.18

3:1
2%
4%
2%
4%

EXIST
R/W

192+00.00

192+00.00

EXISTING STRUCTURE B-40-381
BEGIN STA. 191+95.12

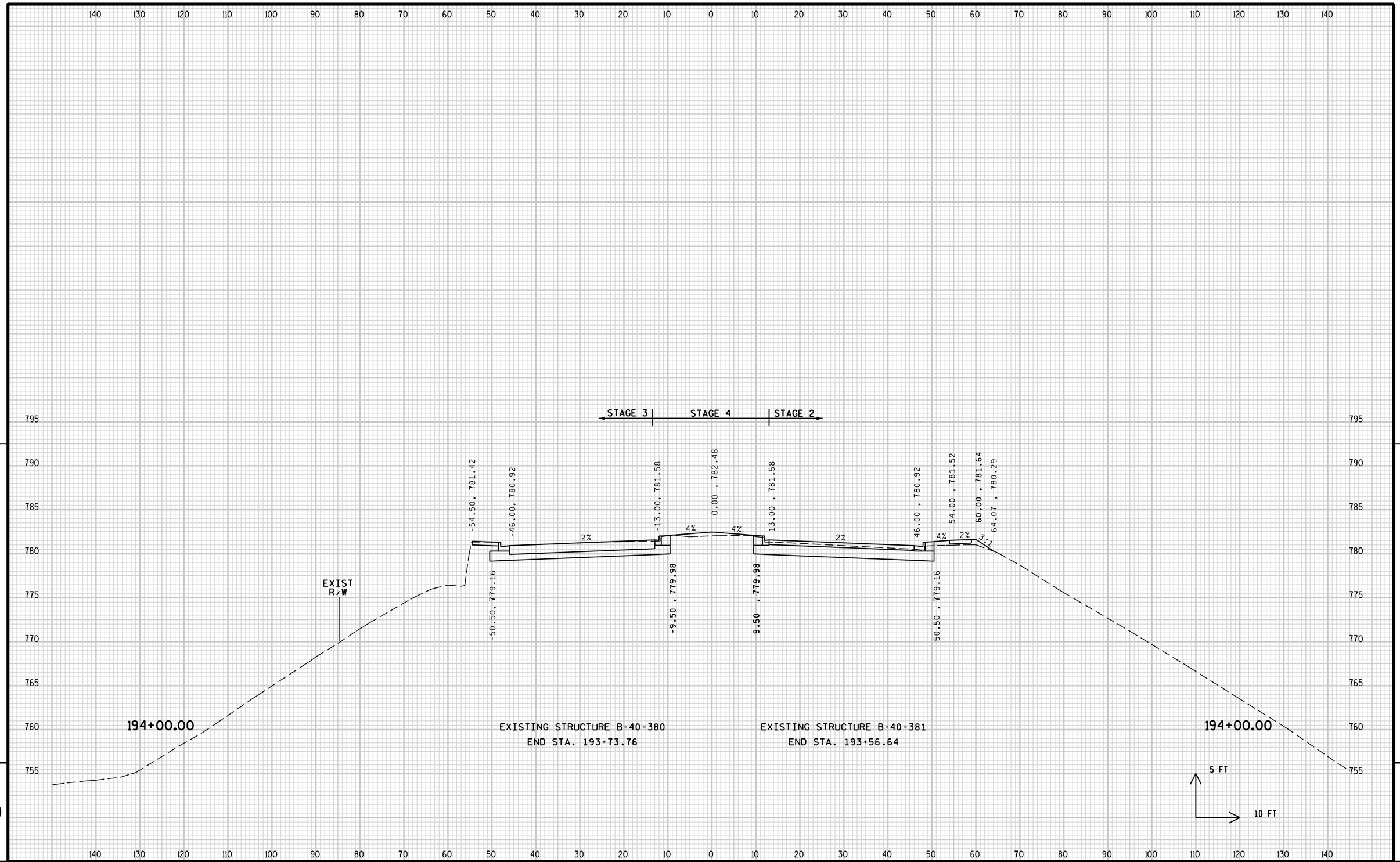
5 FT
10 FT

9

9

PROJECT NO: 2140-08-73	HWY: STH 181	COUNTY: MILWAUKEE	CROSS SECTIONS: MAINLINE	SHEET	E

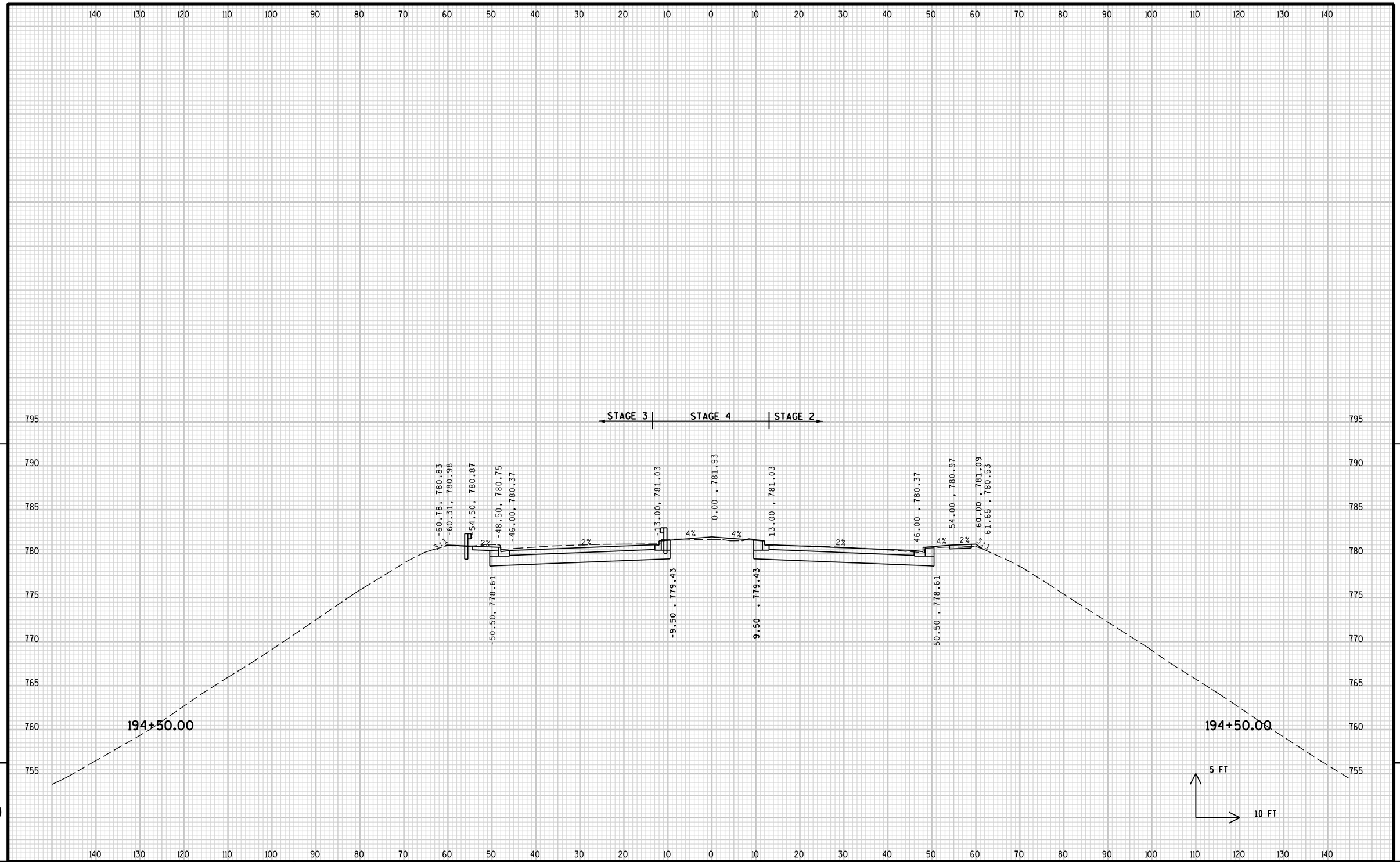
FILE NAME : s:\@sdi\051--100\089\099\micros\design\0873\090201_xs.dgn
PLOT DATE : 7/31/2007
PLOT BY : $$...plotuser...$$ PLOT NAME :
PLOT SCALE : $$.....plotscale.....$$
WISDOT/CADDS SHEET 21



9

9

PROJECT NO: 2140-08-73	HWY: STH 181	COUNTY: MILWAUKEE	CROSS SECTIONS: MAINLINE	SHEET 947	E

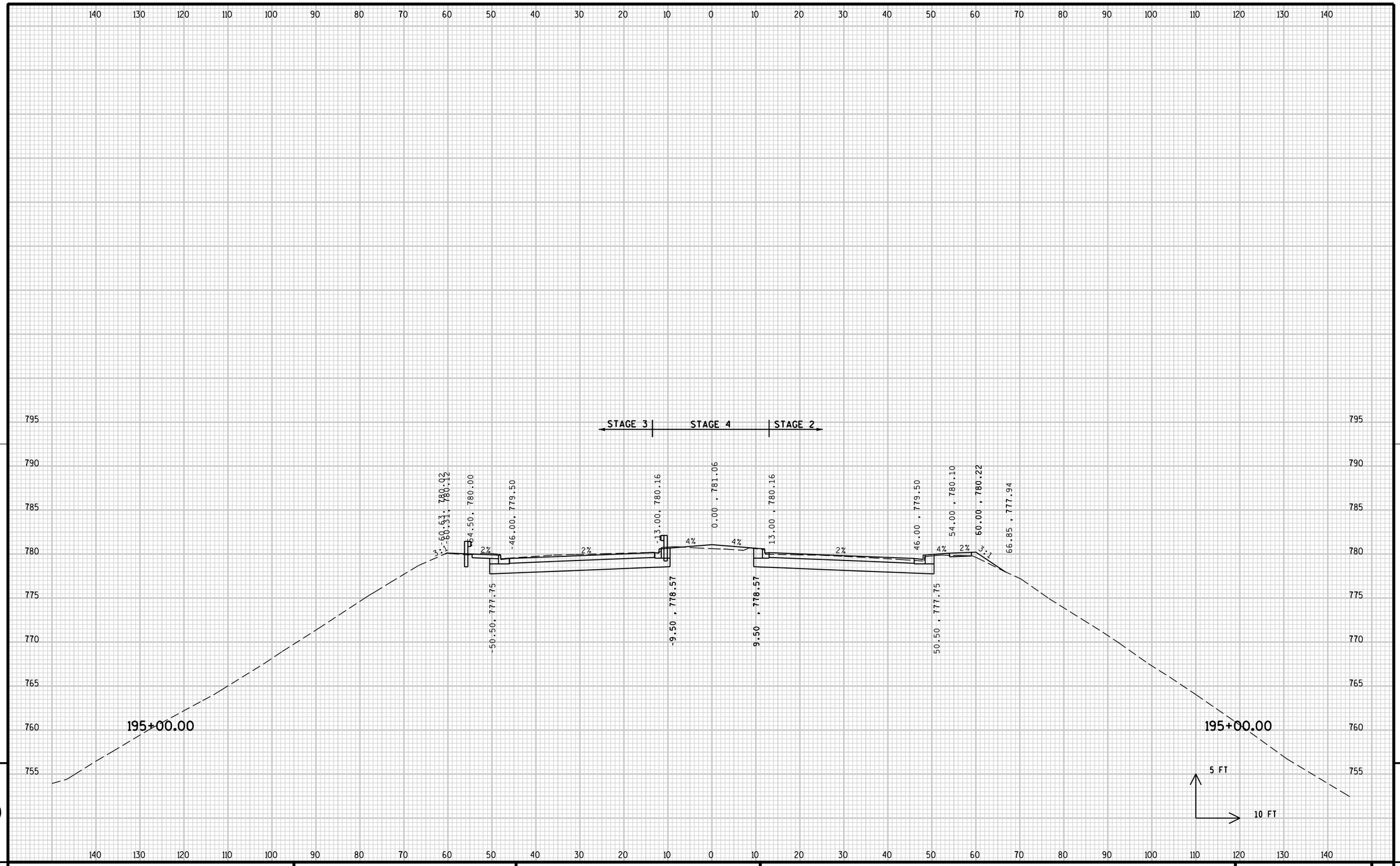


9

9

PROJECT NO: 2140-08-73	HWY: STH 181	COUNTY: MILWAUKEE	CROSS SECTIONS: MAINLINE	SHEET 948	E

FILE NAME : s:\@sai\051--100\089\099\micros\design\0873\090201_xs.dgn PLOT DATE : 7/31/2007 PLOT BY : $$...plotuser...$$ PLOT NAME : PLOT SCALE : $$.....plotscale.....$$



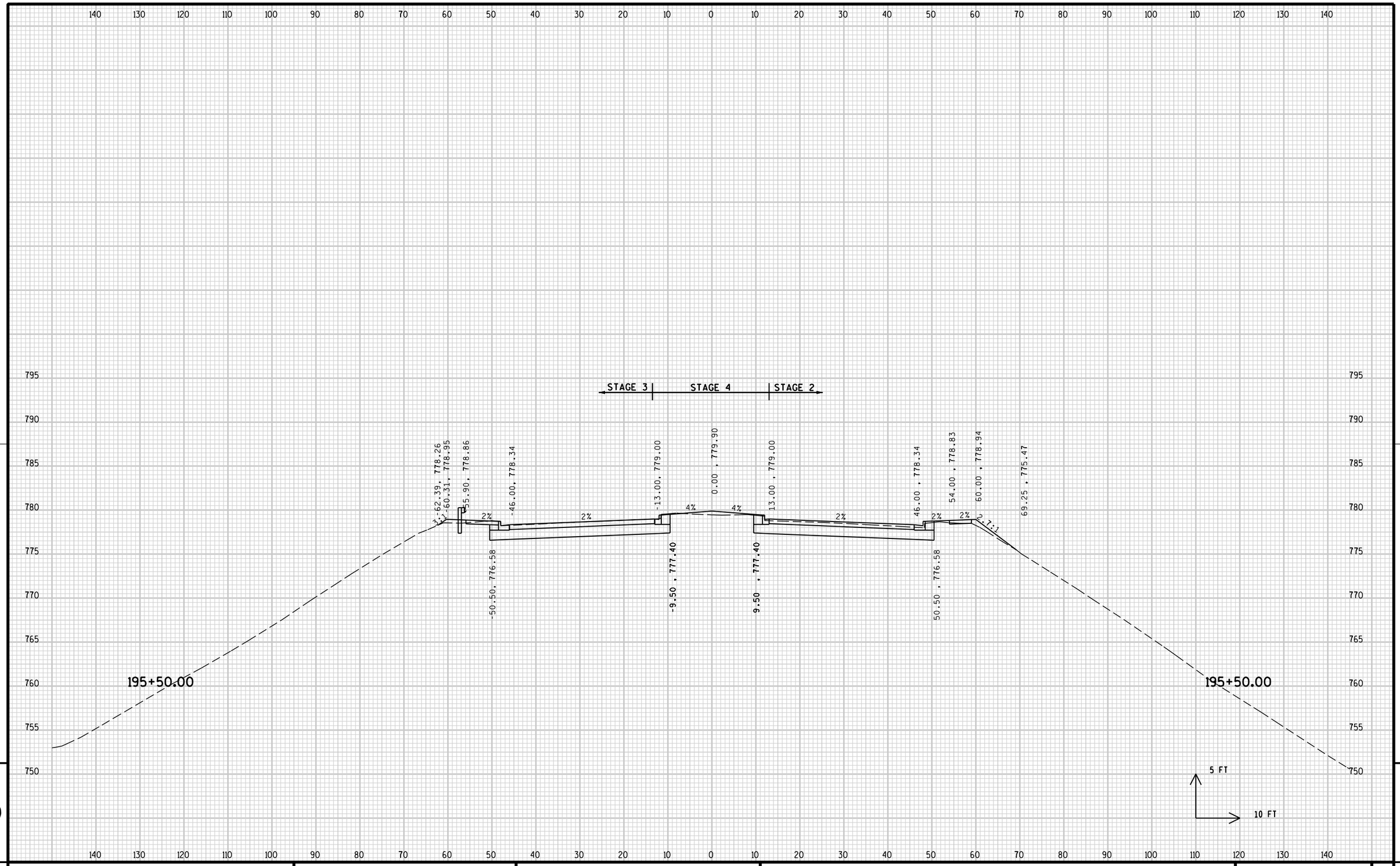
9

9

PROJECT NO: 2140-08-73	HWY: STH 181	COUNTY: MILWAUKEE	CROSS SECTIONS: MAINLINE	SHEET 949	E

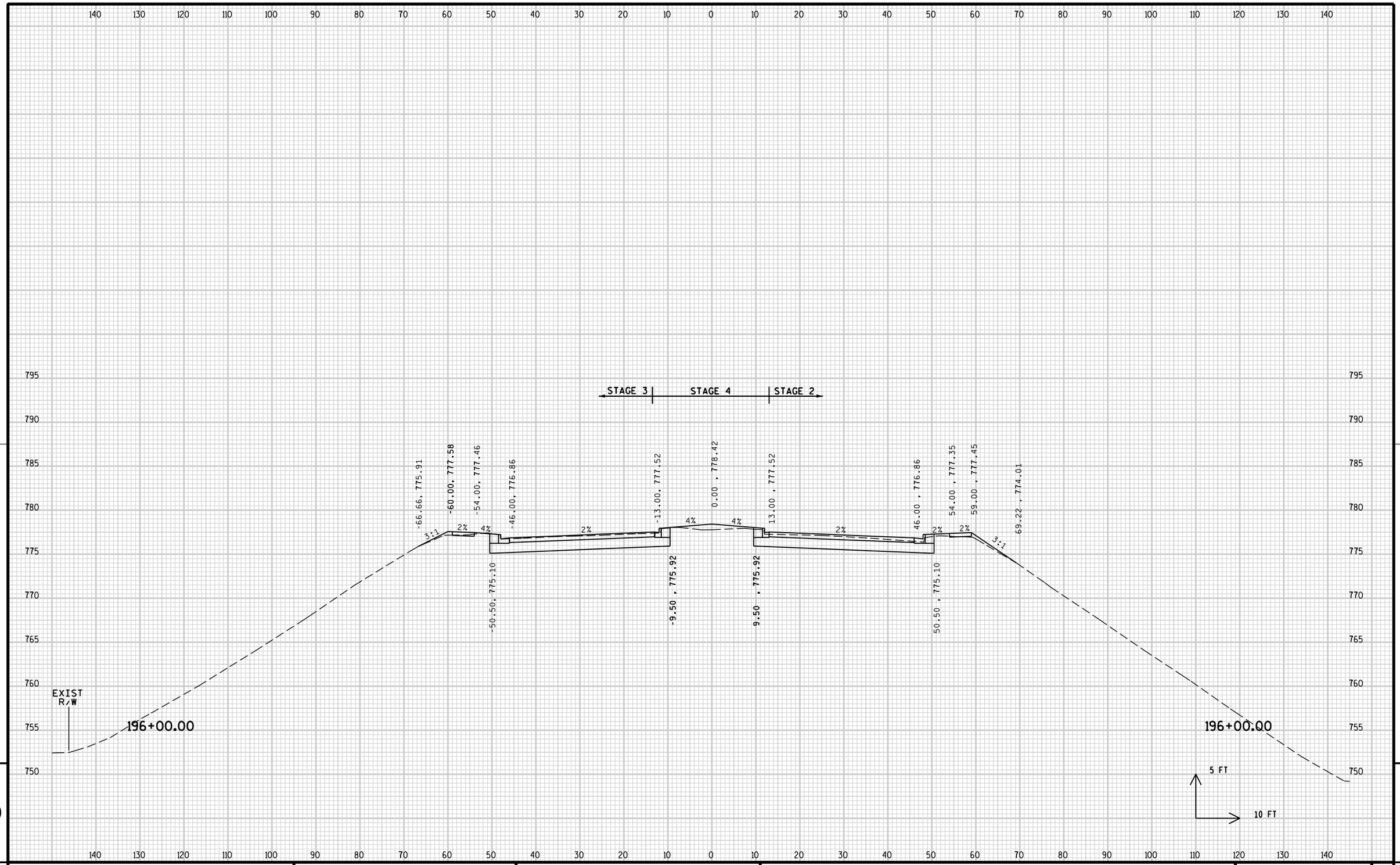
FILE NAME : s:\@sdi\051--100\089\099\micros\design\0873\090201_xs.dgn PLOT DATE : 7/31/2007 PLOT BY : $$...plotuser...$$ PLOT NAME : PLOT SCALE : $$.....plotscale.....$$

WISDOT/CADDS SHEET 21



PROJECT NO: 2140-08-73	HWY: STH 181	COUNTY: MILWAUKEE	CROSS SECTIONS: MAINLINE	SHEET 950	E

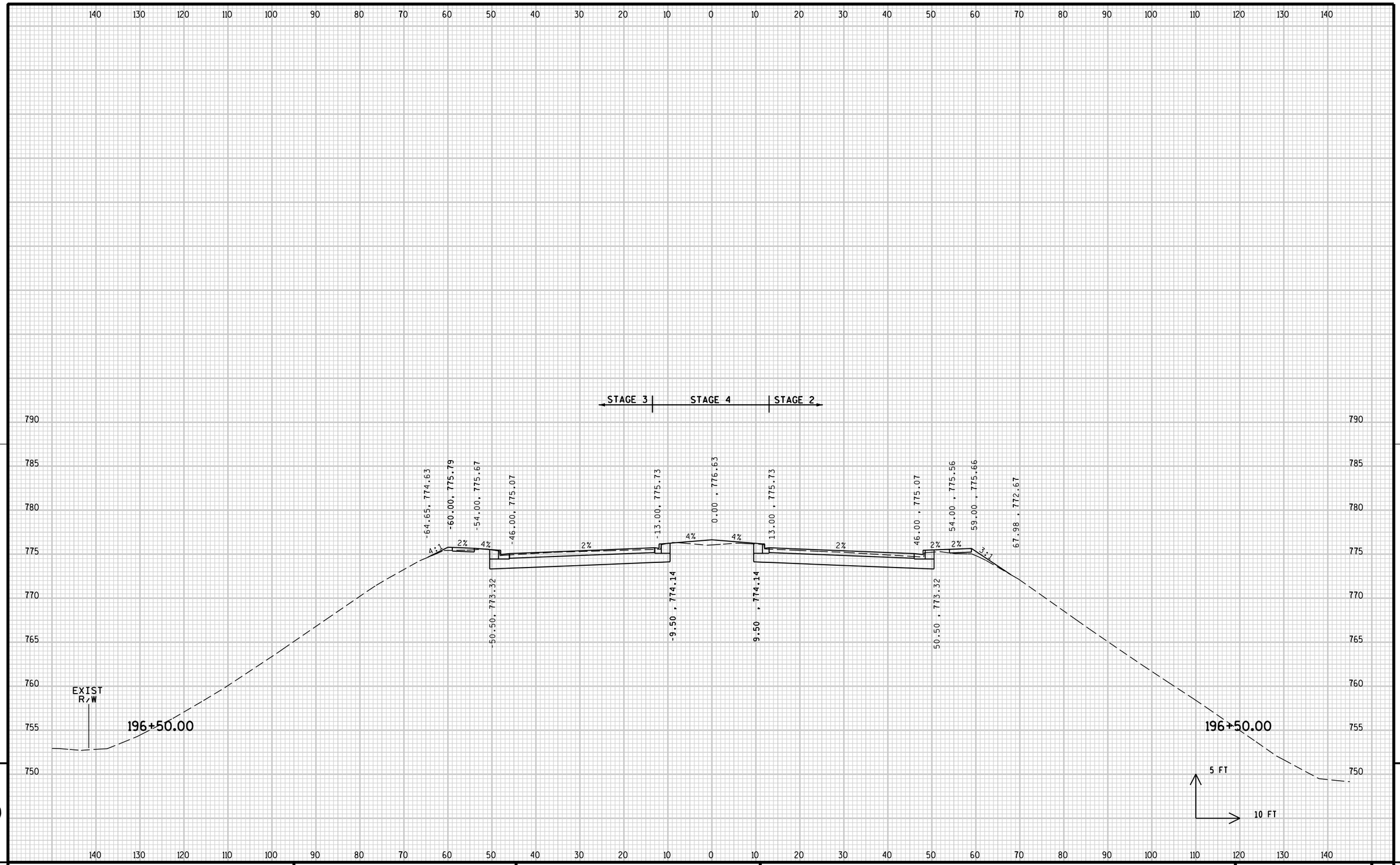
FILE NAME : s:\@sdi\051--100\089\099\micros\design\0873\090201_xs.dgn PLOT DATE : 7/31/2007 PLOT BY : $$...plotuser...$$ PLOT NAME : PLOT SCALE : $$.....plotscale.....$$



PROJECT NO: 2140-08-73	HWY: STH 181	COUNTY: MILWAUKEE	CROSS SECTIONS: MAINLINE	SHEET 951	E

FILE NAME : s:\@sdi\051--100\089\099\micros\design\0873\090201_xs.dgn PLOT DATE : 7/31/2007 PLOT BY : $$...plotuser...$$ PLOT NAME : PLOT SCALE : $$.....plotscale.....$$

WISDOT/CADDS SHEET 21



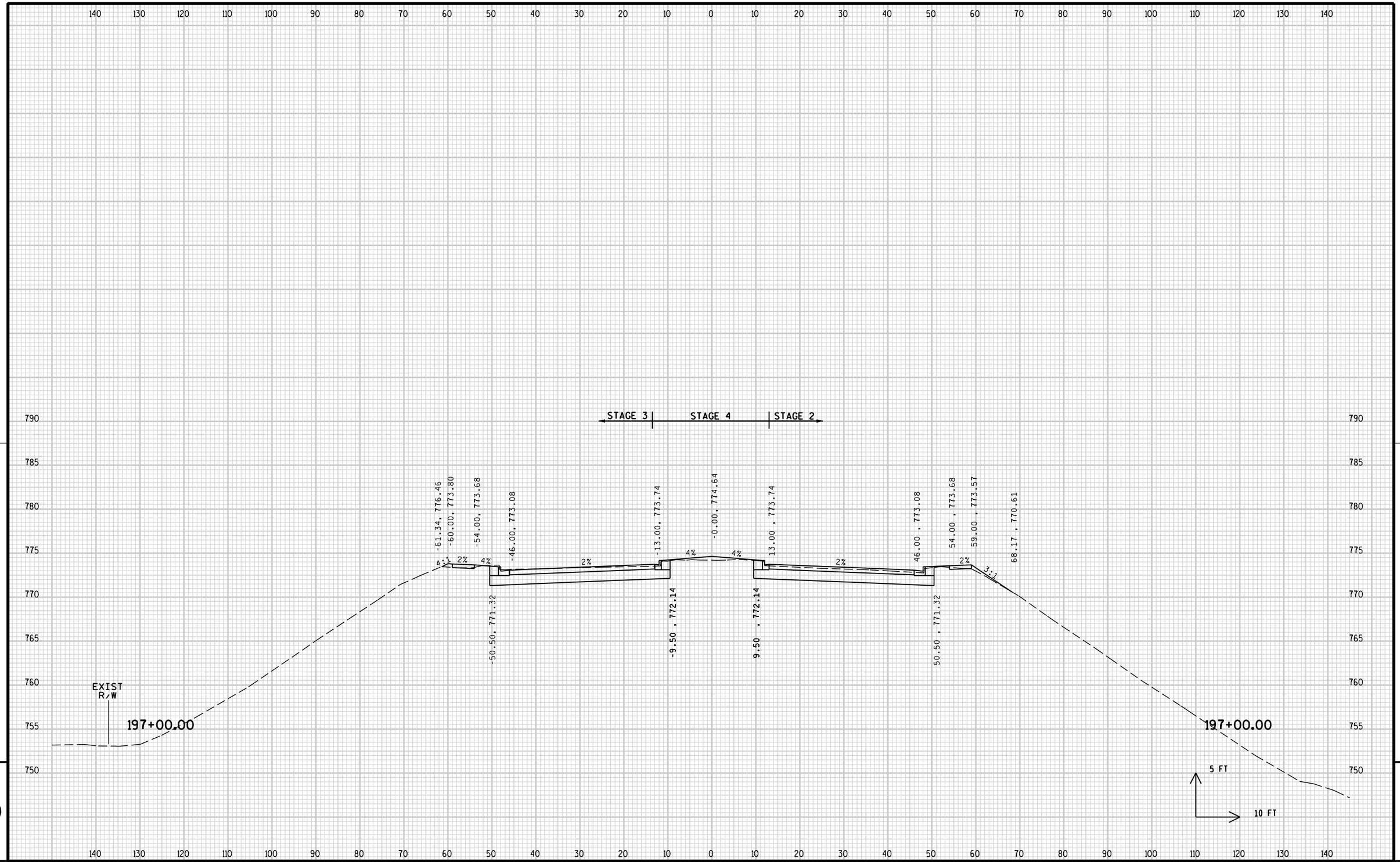
9

9

PROJECT NO: 2140-08-73	HWY: STH 181	COUNTY: MILWAUKEE	CROSS SECTIONS: MAINLINE	SHEET 952	E

FILE NAME : s:\@sdi\051--100\089\099\micros\design\0873\090201_xs.dgn PLOT DATE : 7/31/2007 PLOT BY : $$...plotuser...$$ PLOT NAME : PLOT SCALE : $$.....plotscale.....$$

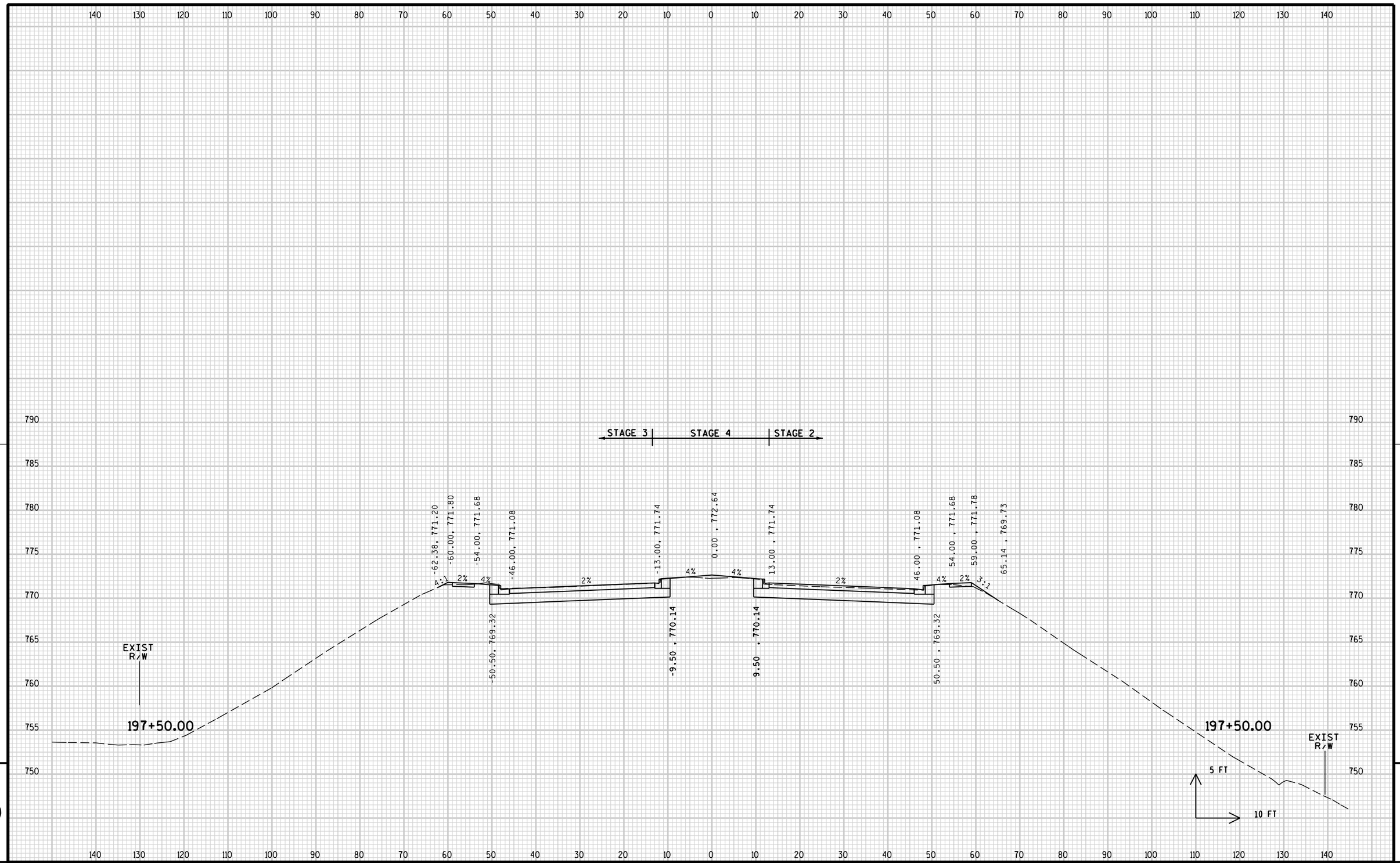
WISDOT/CADDS SHEET 21



9

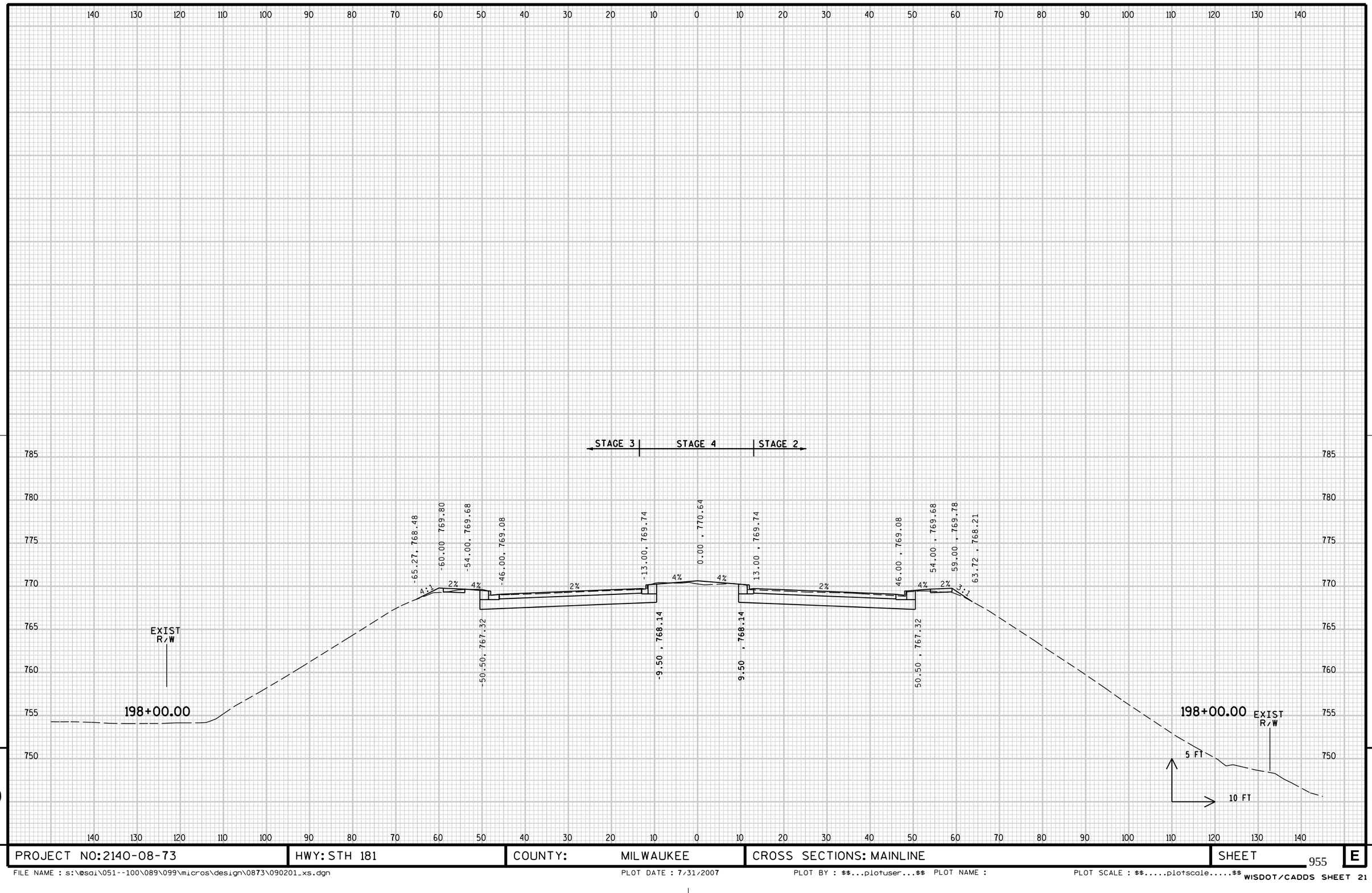
9

PROJECT NO: 2140-08-73	HWY: STH 181	COUNTY: MILWAUKEE	CROSS SECTIONS: MAINLINE	SHEET 953	E



PROJECT NO: 2140-08-73	HWY: STH 181	COUNTY: MILWAUKEE	CROSS SECTIONS: MAINLINE	SHEET 954	E

FILE NAME : s:\@sdi\051--100\089\099\micros\design\0873\090201_xs.dgn PLOT DATE : 7/31/2007 PLOT BY : $$...plotuser...$$ PLOT NAME : PLOT SCALE : $$.....plotscale.....$$ WISDOT/CADDS SHEET 21



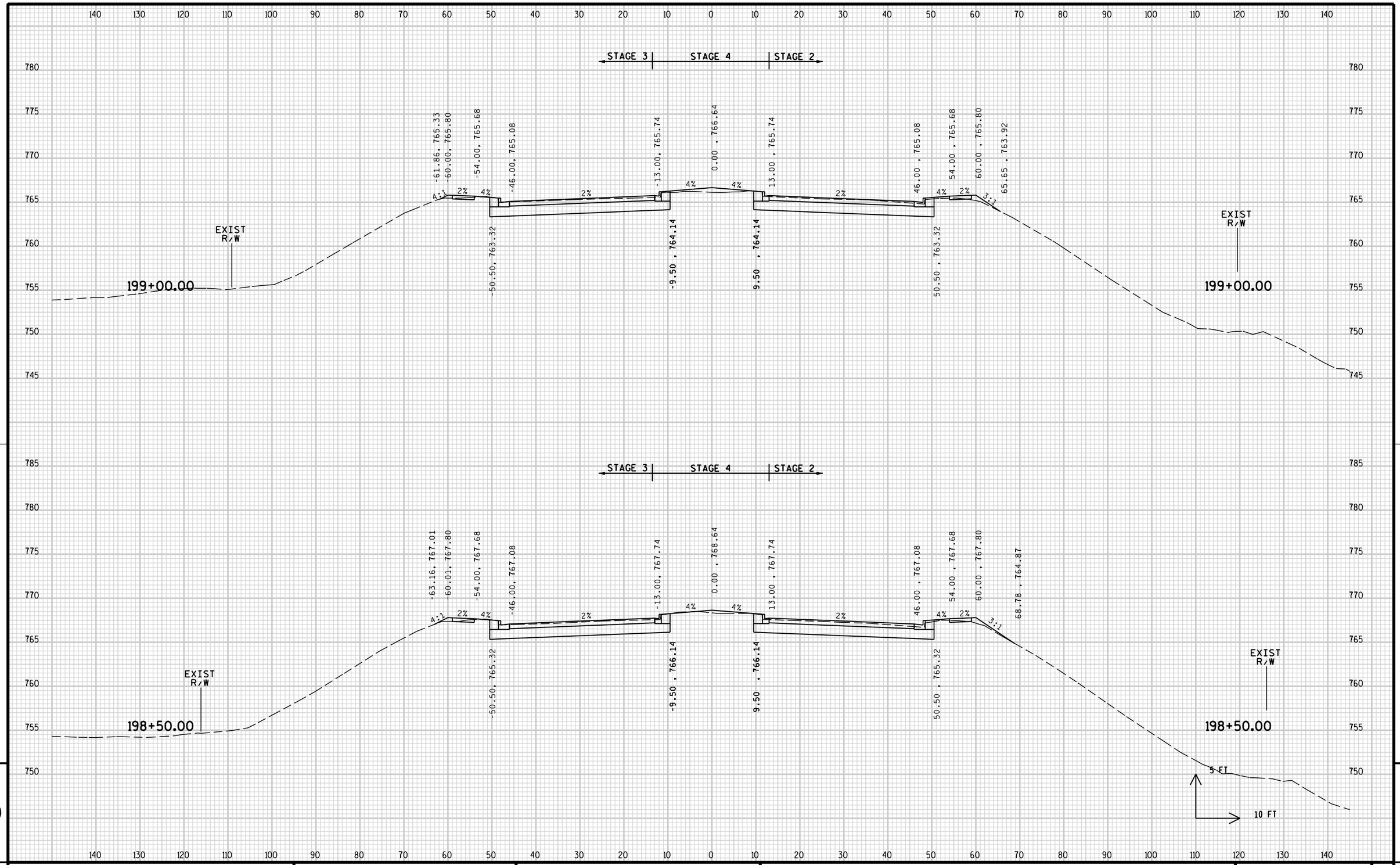
9

9

PROJECT NO:2140-08-73	HWY: STH 181	COUNTY: MILWAUKEE	CROSS SECTIONS: MAINLINE	SHEET 955	E

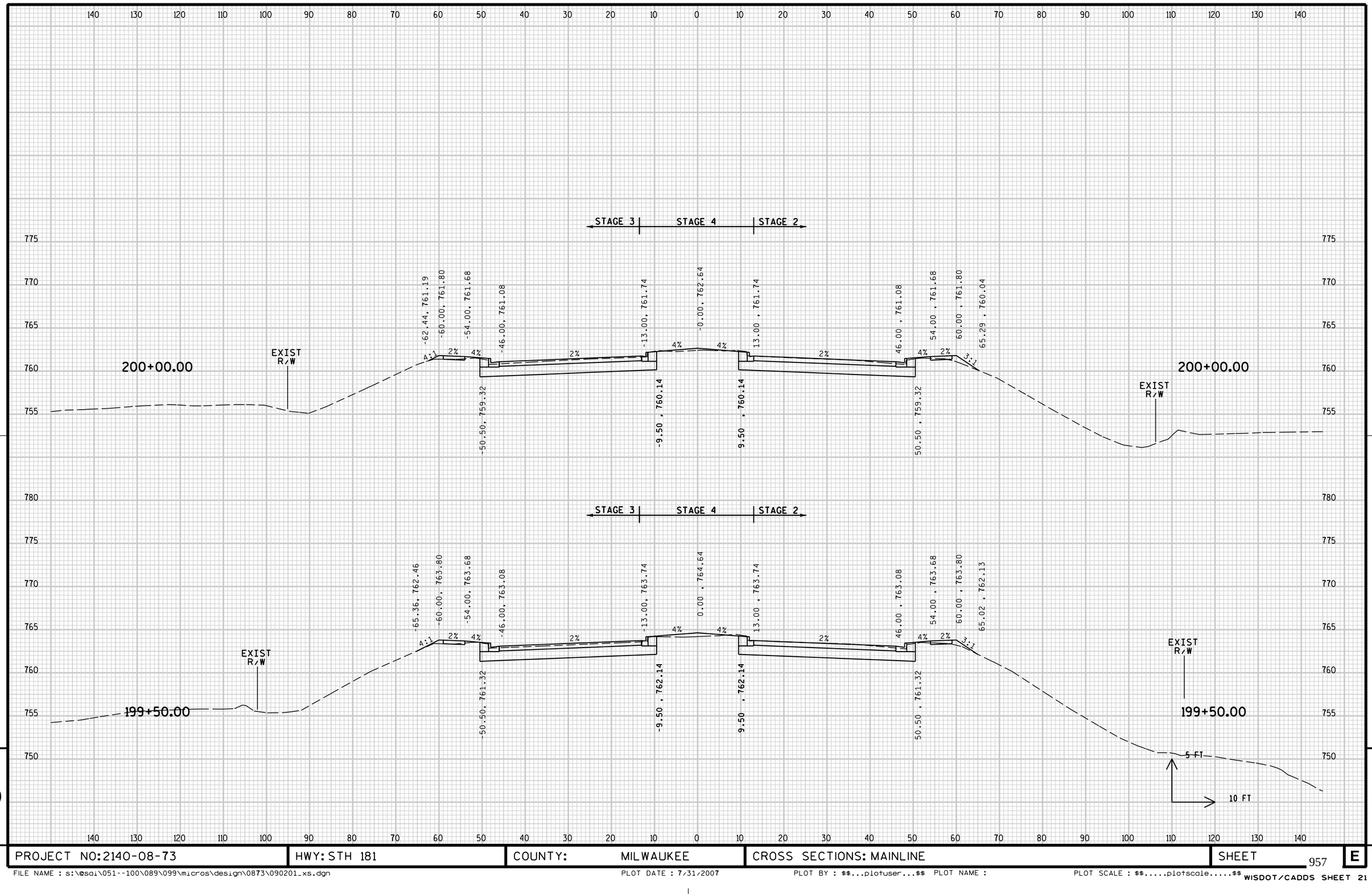
FILE NAME : s:\@sdi\051--100\089\099\micros\design\0873\090201_xs.dgn PLOT DATE : 7/31/2007 PLOT BY : $$...plotuser...$$ PLOT NAME : PLOT SCALE : $$.....plotscale.....$$

WISDOT/CADDS SHEET 21

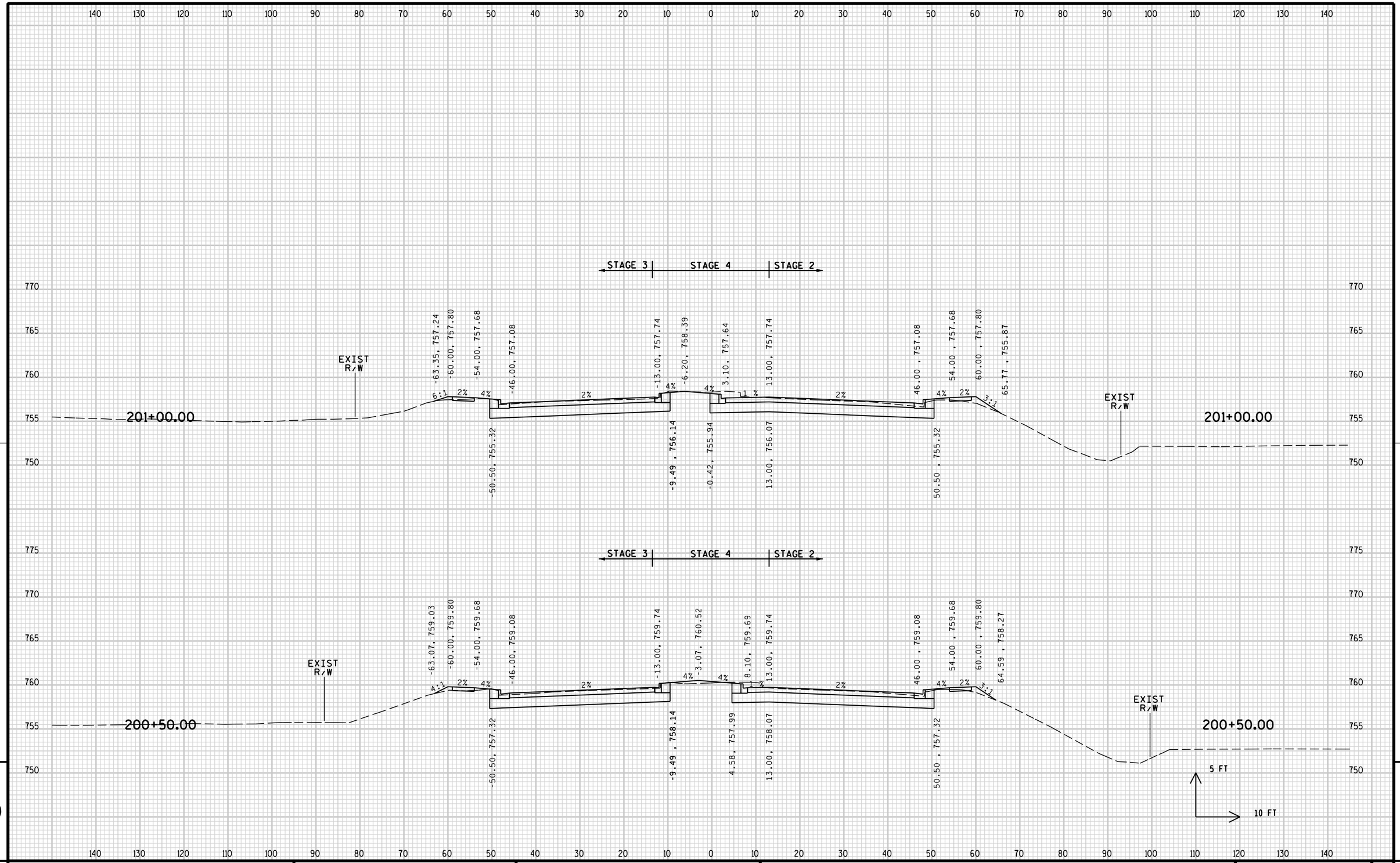


PROJECT NO: 2140-08-73	HWY: STH 181	COUNTY: MILWAUKEE	CROSS SECTIONS: MAINLINE	SHEET	E

FILE NAME : s:\@sdi\051--100\089\099\micros\design\0873\090201_xs.dgn PLOT DATE : 7/31/2007 PLOT BY : $$...plotuser...$$ PLOT NAME : PLOT SCALE : $$.....plotscale.....$$ WISDOT/CADDS SHEET 21



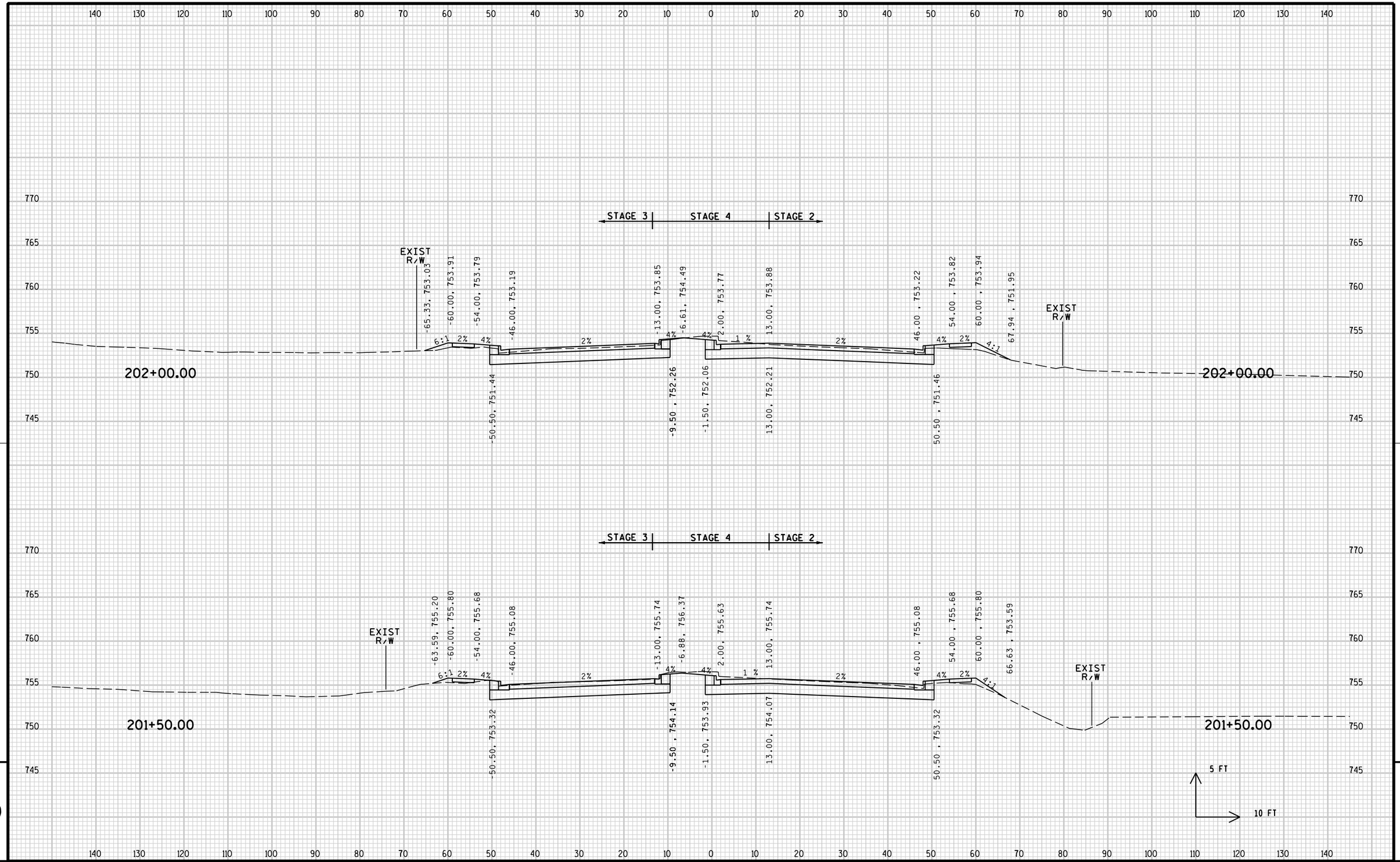
PROJECT NO: 2140-08-73	HWY: STH 181	COUNTY: MILWAUKEE	CROSS SECTIONS: MAINLINE	SHEET 957 E



PROJECT NO: 2140-08-73	HWY: STH 181	COUNTY: MILWAUKEE	CROSS SECTIONS: MAINLINE	SHEET 958	E

FILE NAME : s:\@sdi\051--100\089\099\micros\design\0873\090201_xs.dgn PLOT DATE : 7/31/2007 PLOT BY : $$...plotuser...$$ PLOT NAME : PLOT SCALE : $$.....plotscale.....$$

WISDOT/CADDS SHEET 21

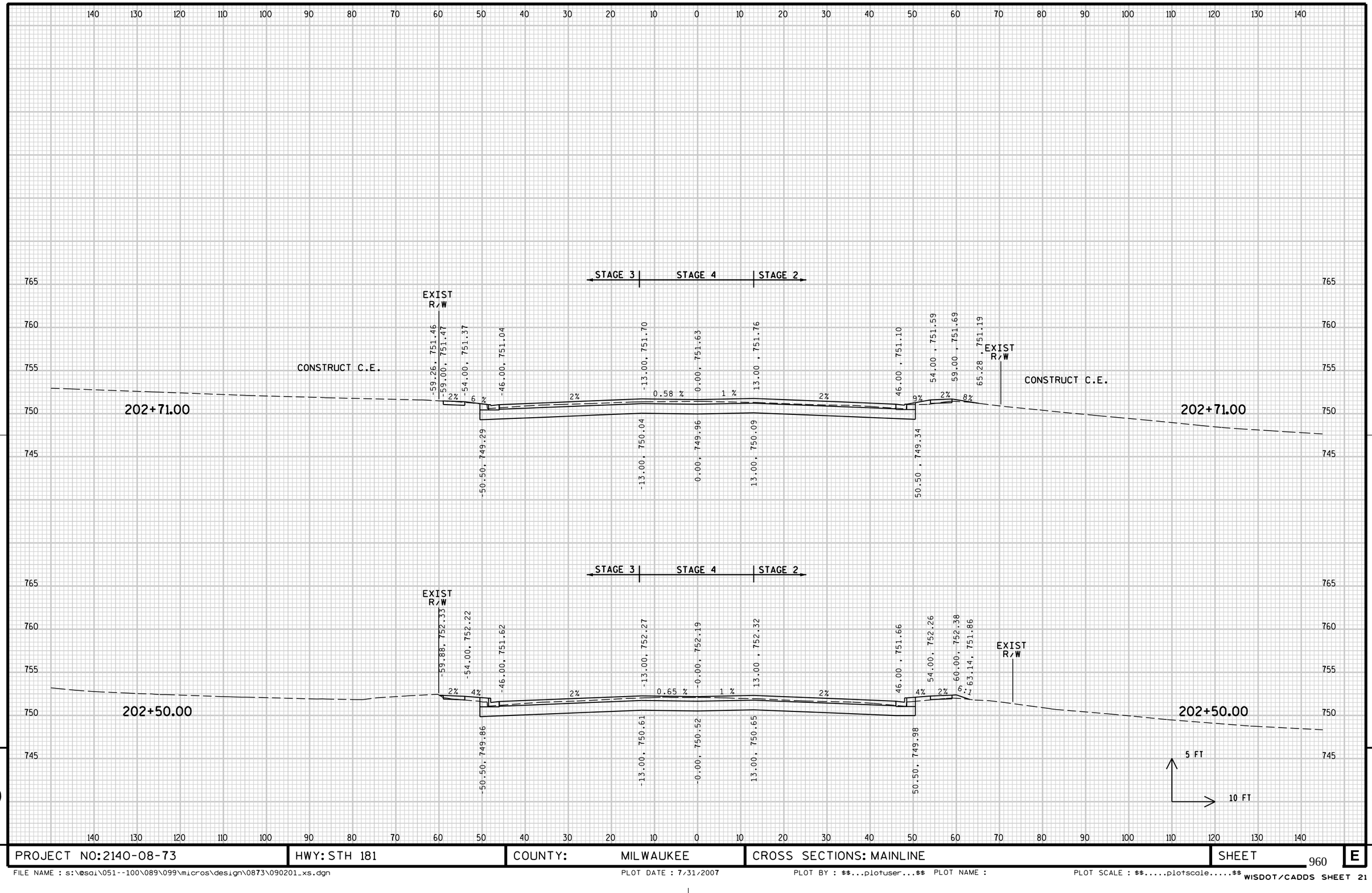


9

9

PROJECT NO:2140-08-73	HWY: STH 181	COUNTY: MILWAUKEE	CROSS SECTIONS: MAINLINE	SHEET 959	E

FILE NAME : s:\@sdi\051--100\089\099\micros\design\0873\090201_xs.dgn PLOT DATE : 7/31/2007 PLOT BY : $$...plotuser...$$ PLOT NAME : PLOT SCALE : $$.....plotscale.....$$



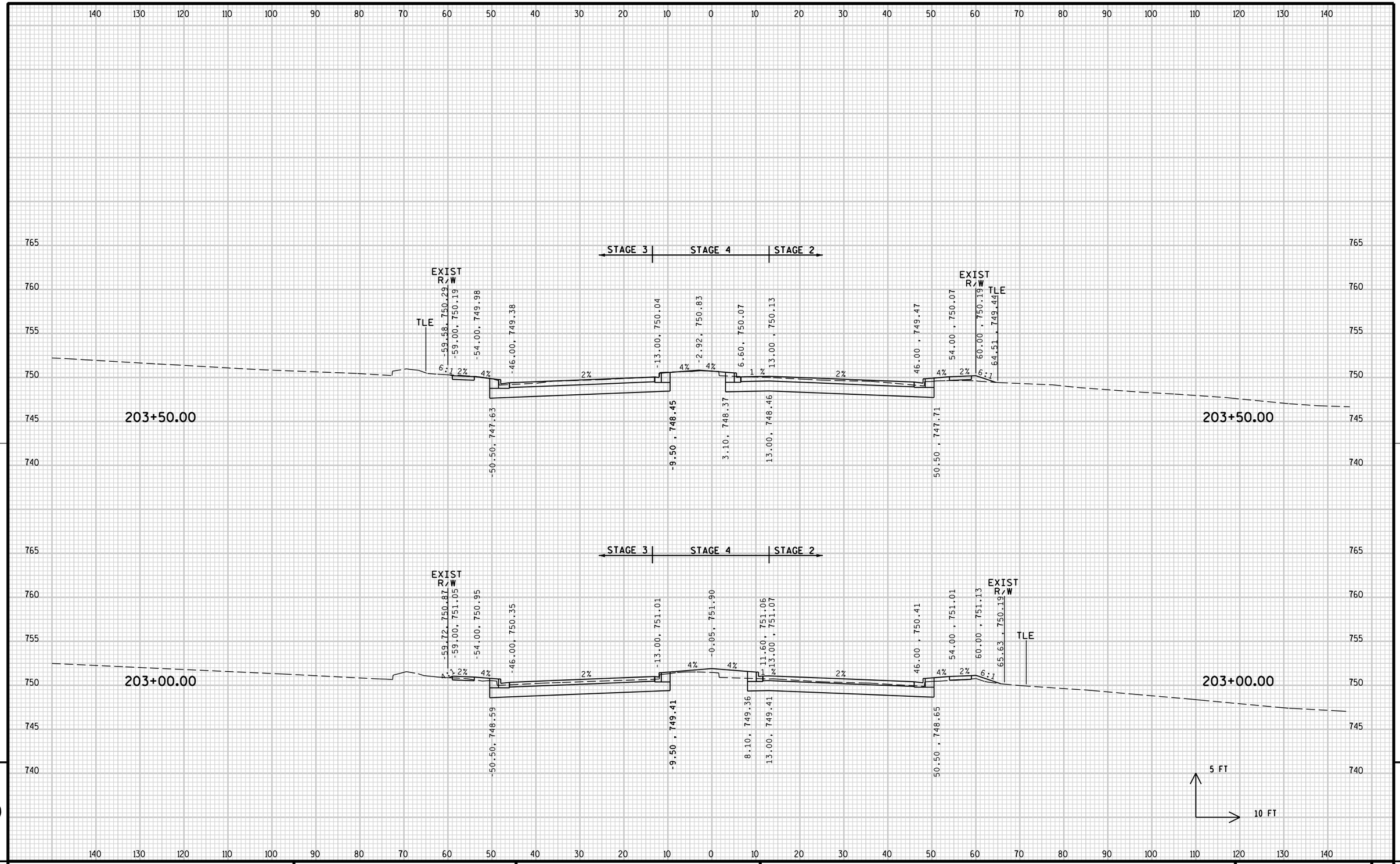
9

9

PROJECT NO: 2140-08-73	HWY: STH 181	COUNTY: MILWAUKEE	CROSS SECTIONS: MAINLINE	SHEET 960	E

FILE NAME : s:\@sdi\051--100\089\099\micros\design\0873\090201_xs.dgn PLOT DATE : 7/31/2007 PLOT BY : $$...plotuser...$$ PLOT NAME : PLOT SCALE : $$.....plotscale.....$$

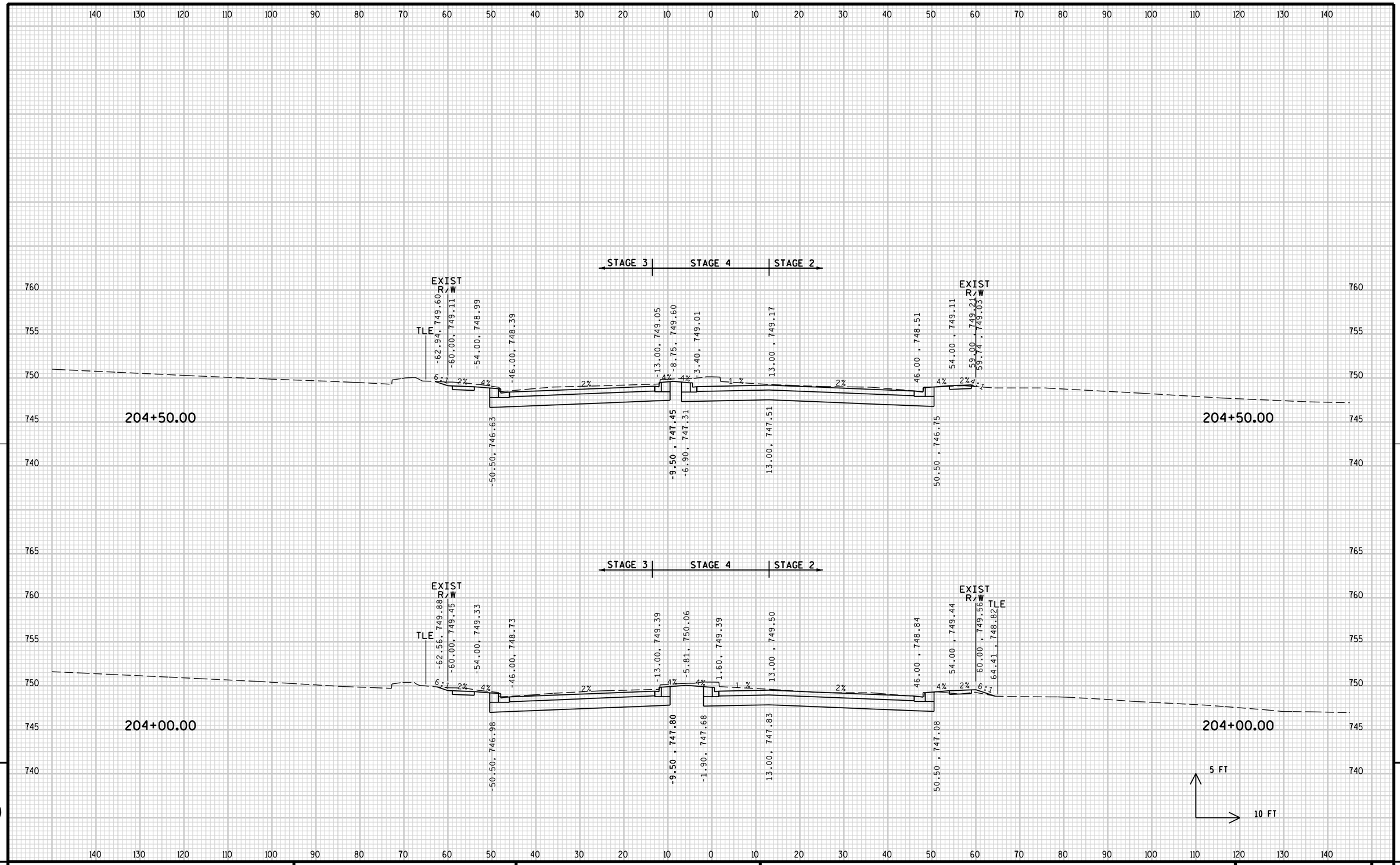
WISDOT/CADDS SHEET 21



PROJECT NO: 2140-08-73	HWY: STH 181	COUNTY: MILWAUKEE	CROSS SECTIONS: MAINLINE	SHEET 961	E

FILE NAME : s:\@sai\051--100\089\099\micros\design\0873\090201_xs.dgn PLOT DATE : 7/31/2007 PLOT BY : $$...plotuser...$$ PLOT NAME : PLOT SCALE : $$.....plotscale.....$$

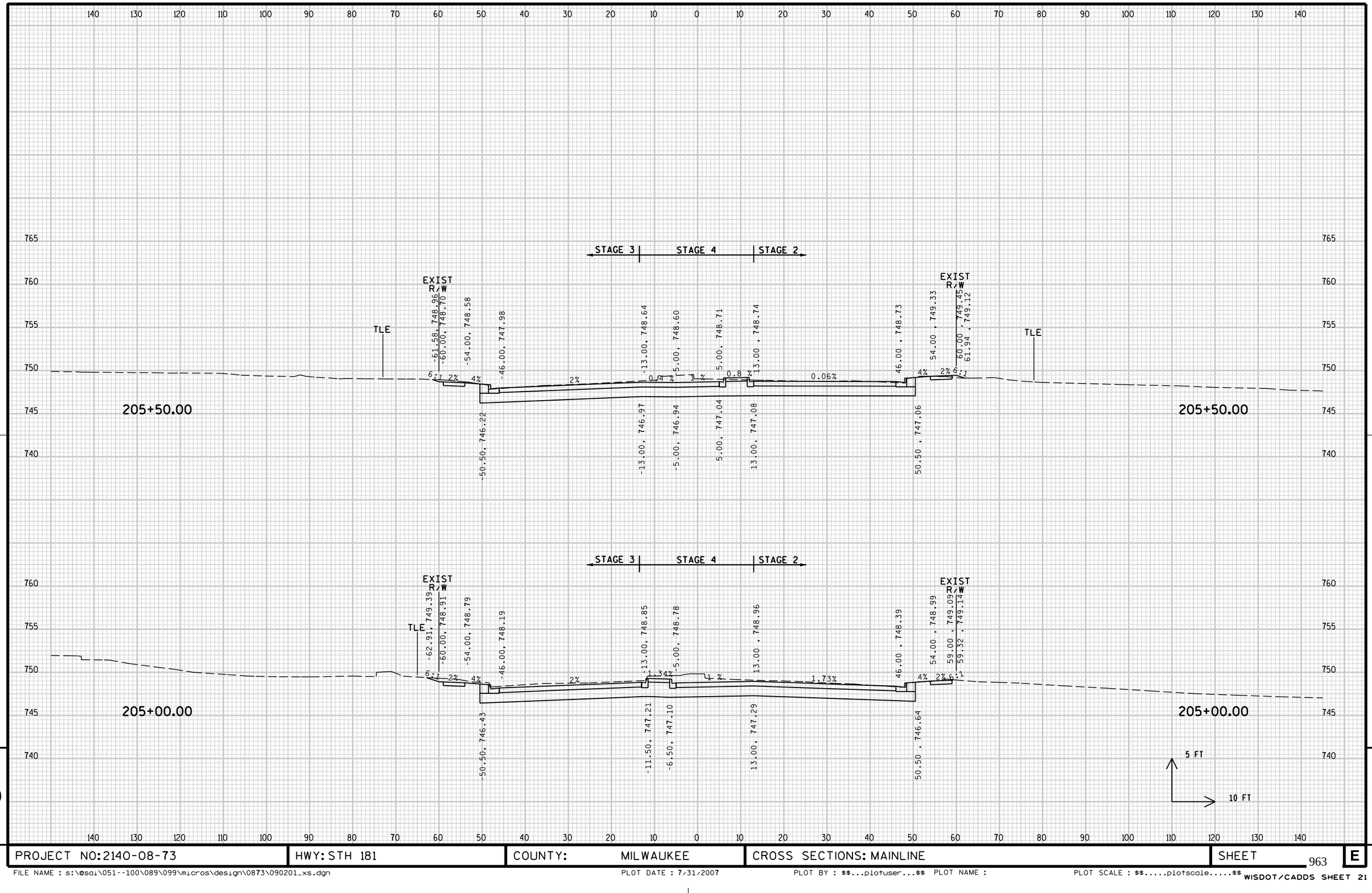
WISDOT/CADDS SHEET 21



PROJECT NO: 2140-08-73	HWY: STH 181	COUNTY: MILWAUKEE	CROSS SECTIONS: MAINLINE	SHEET 962	E

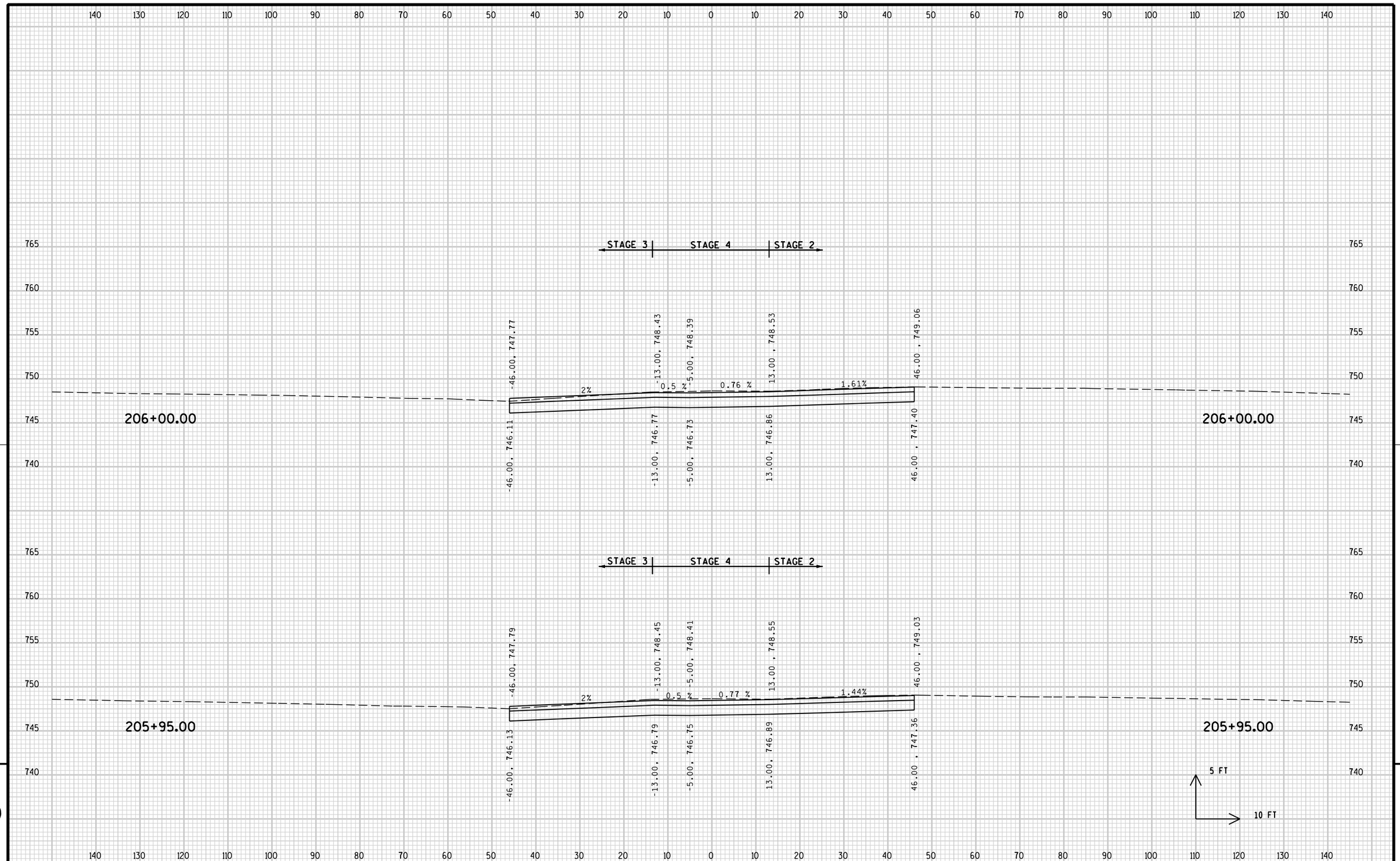
FILE NAME : s:\@sai\051--100\089\099\micros\design\0873\090201_xs.dgn PLOT DATE : 7/31/2007 PLOT BY : $$...plotuser...$$ PLOT NAME : PLOT SCALE : $$.....plotscale.....$$

WISDOT/CADDS SHEET 21



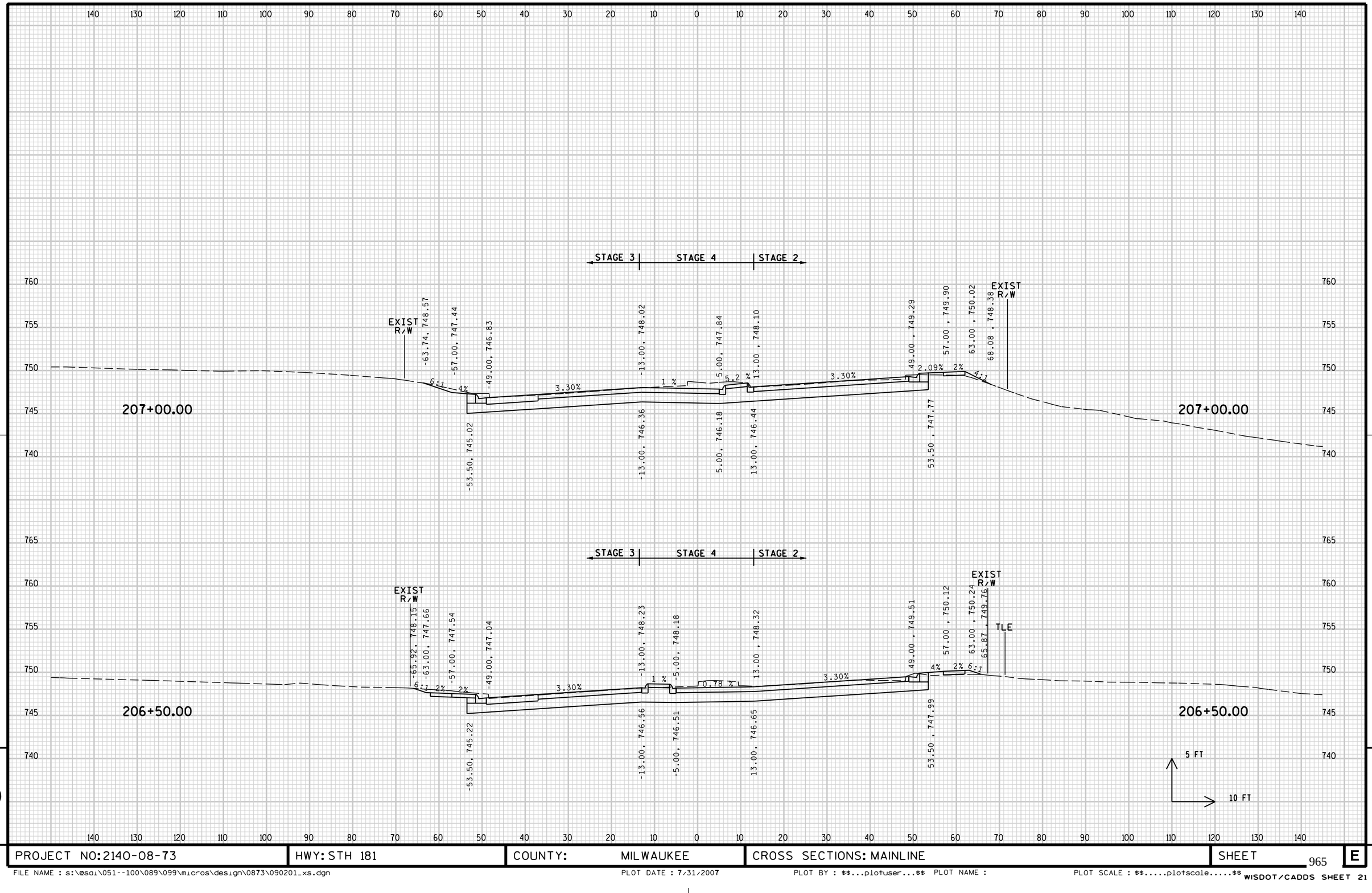
PROJECT NO: 2140-08-73	HWY: STH 181	COUNTY: MILWAUKEE	CROSS SECTIONS: MAINLINE	SHEET	E

FILE NAME : s:\@sai\051--100\089\099\micros\design\0873\090201_xs.dgn PLOT DATE : 7/31/2007 PLOT BY : $$...plotuser...$$ PLOT NAME : PLOT SCALE : $$.....plotscale.....$$ WISDOT/CADDS SHEET 21



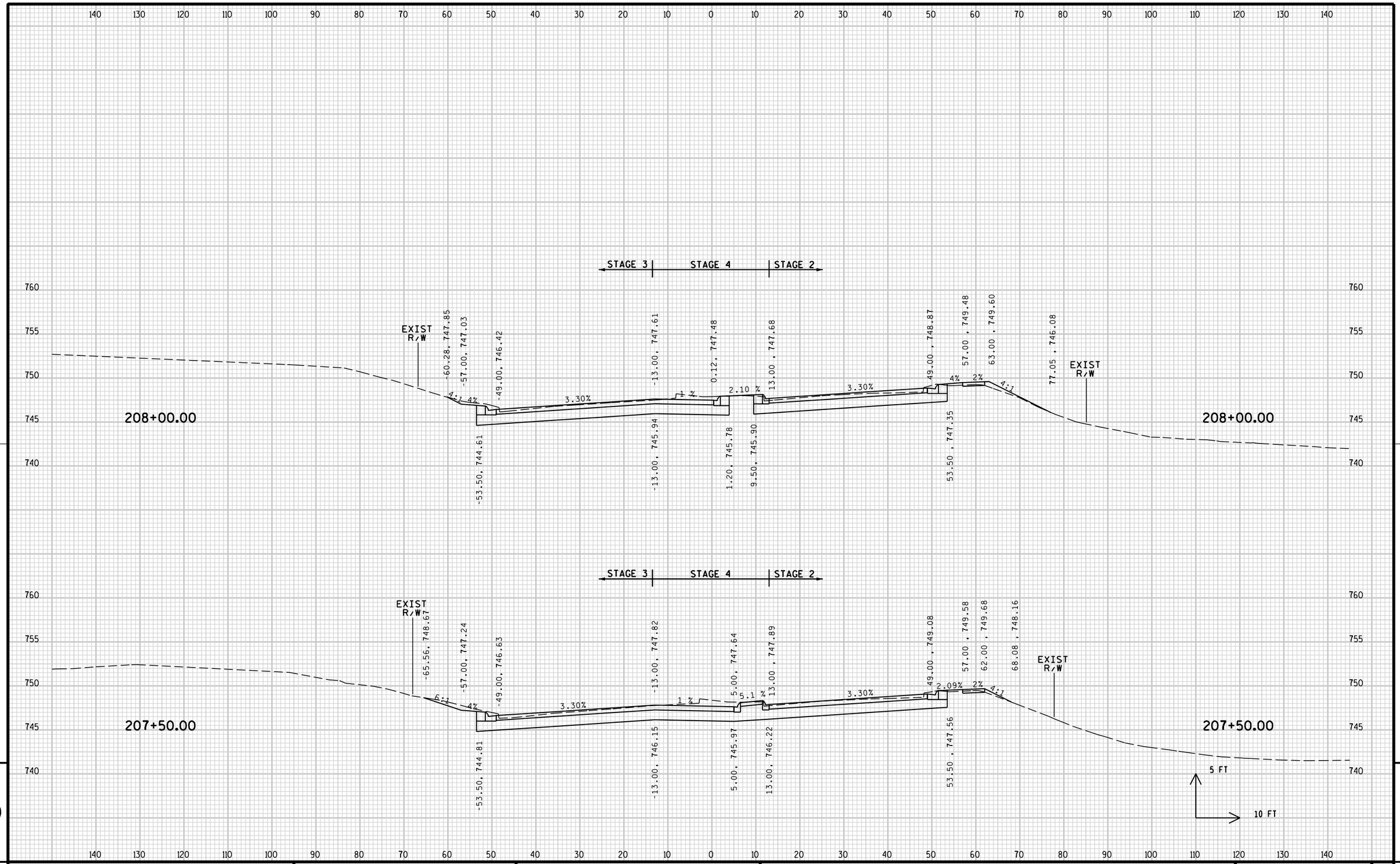
PROJECT NO: 2140-08-73	HWY: STH 181	COUNTY: MILWAUKEE	CROSS SECTIONS: MAINLINE	SHEET 964	E

FILE NAME : s:\@sai\051--100\089\099\micros\design\0873\090201_xs.dgn PLOT DATE : 7/31/2007 PLOT BY : $$...plotuser...$$ PLOT NAME : PLOT SCALE : $$.....plotscale.....$$ WISDOT/CADDS SHEET 21



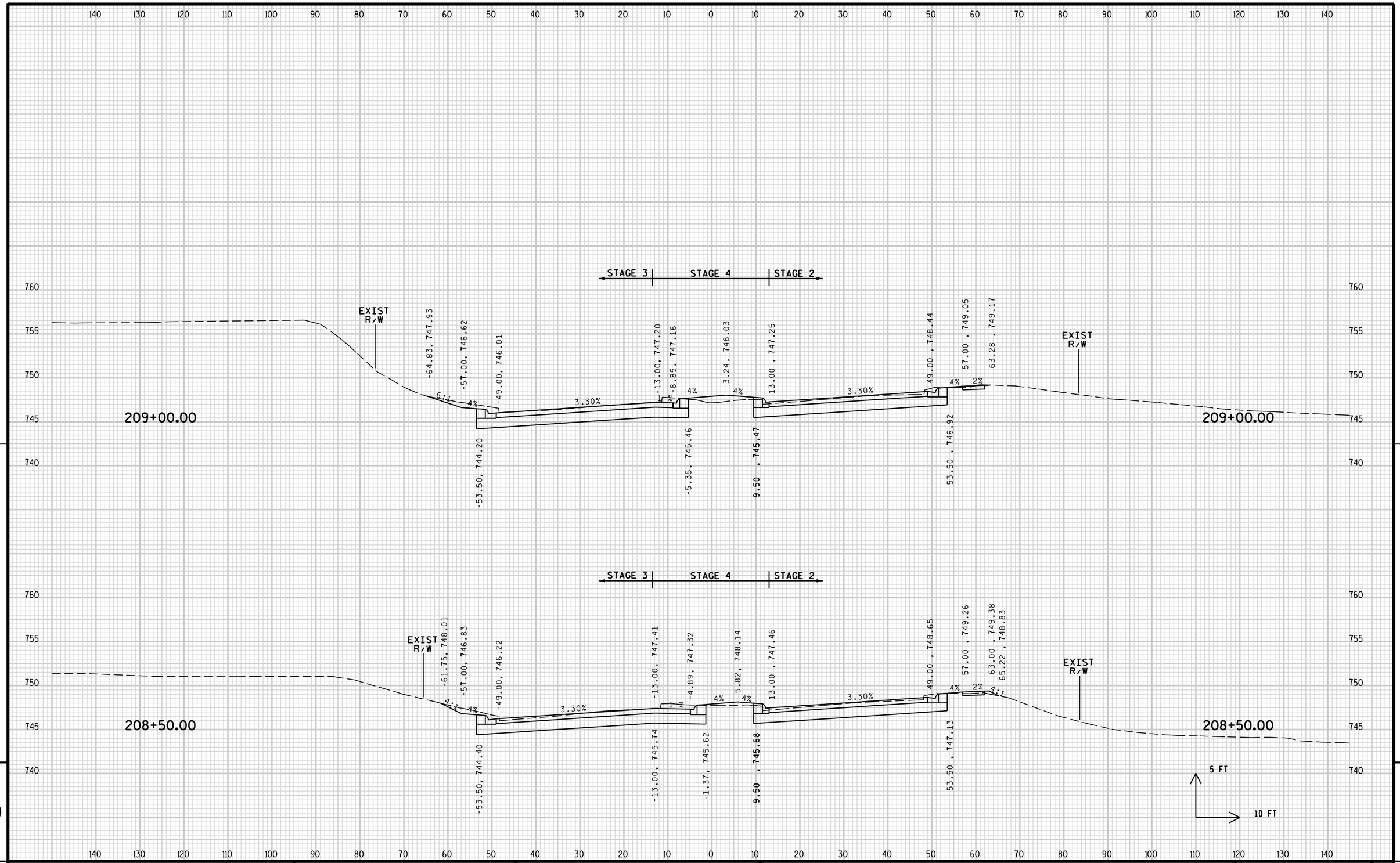
PROJECT NO: 2140-08-73	HWY: STH 181	COUNTY: MILWAUKEE	CROSS SECTIONS: MAINLINE	SHEET	E

FILE NAME : s:\@sai\051--100\089\099\micros\design\0873\090201_xs.dgn PLOT DATE : 7/31/2007 PLOT BY : $$...plotuser...$$ PLOT NAME : PLOT SCALE : $$.....plotscale.....$$ WISDOT/CADDS SHEET 21



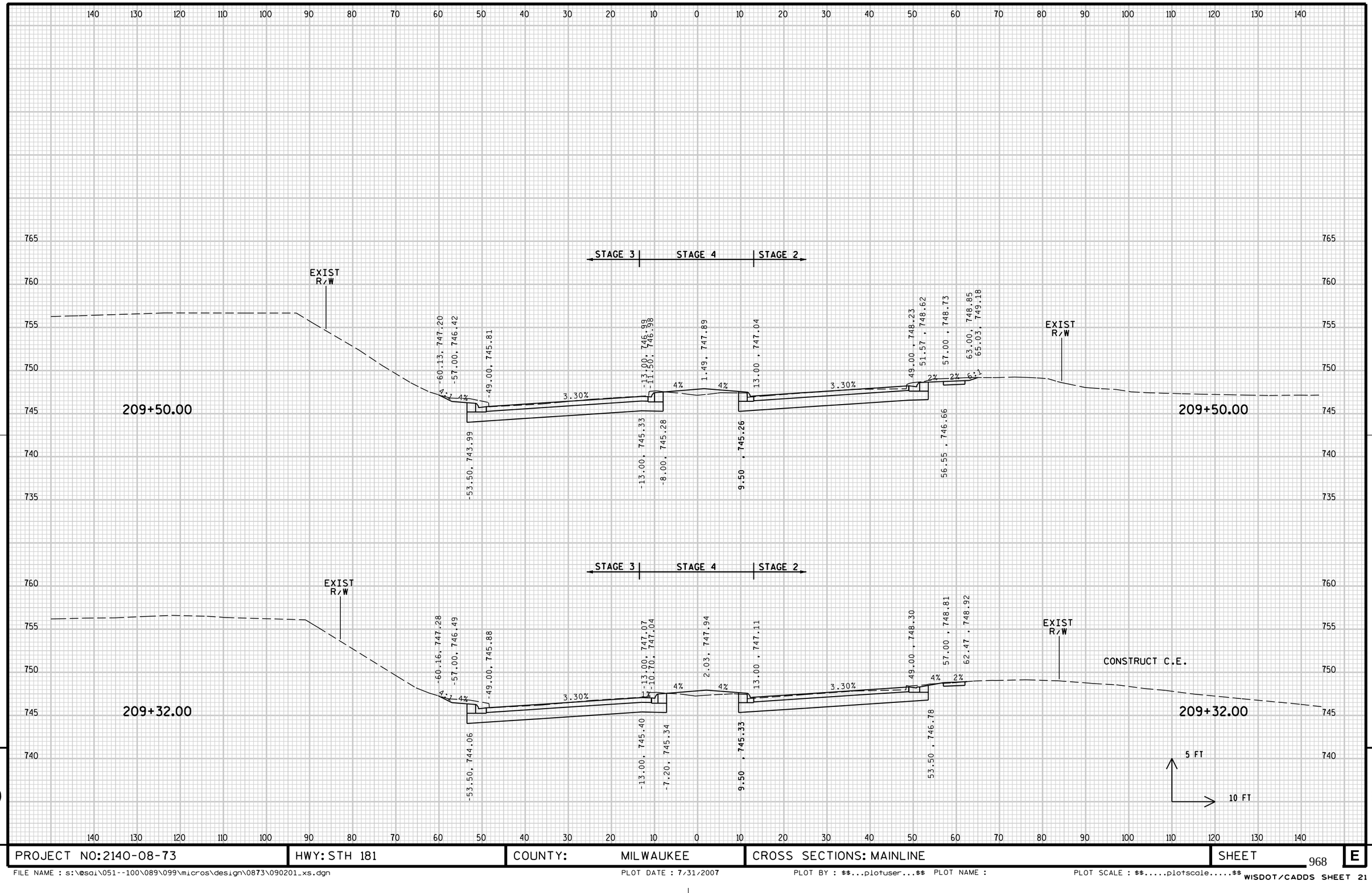
PROJECT NO: 2140-08-73	HWY: STH 181	COUNTY: MILWAUKEE	CROSS SECTIONS: MAINLINE	SHEET	E

FILE NAME : s:\@sai\051--100\089\099\micros\design\0873\090201_xs.dgn PLOT DATE : 7/31/2007 PLOT BY : $$...plotuser...$$ PLOT NAME : PLOT SCALE : $$.....plotscale.....$$ WISDOT/CADDS SHEET 21



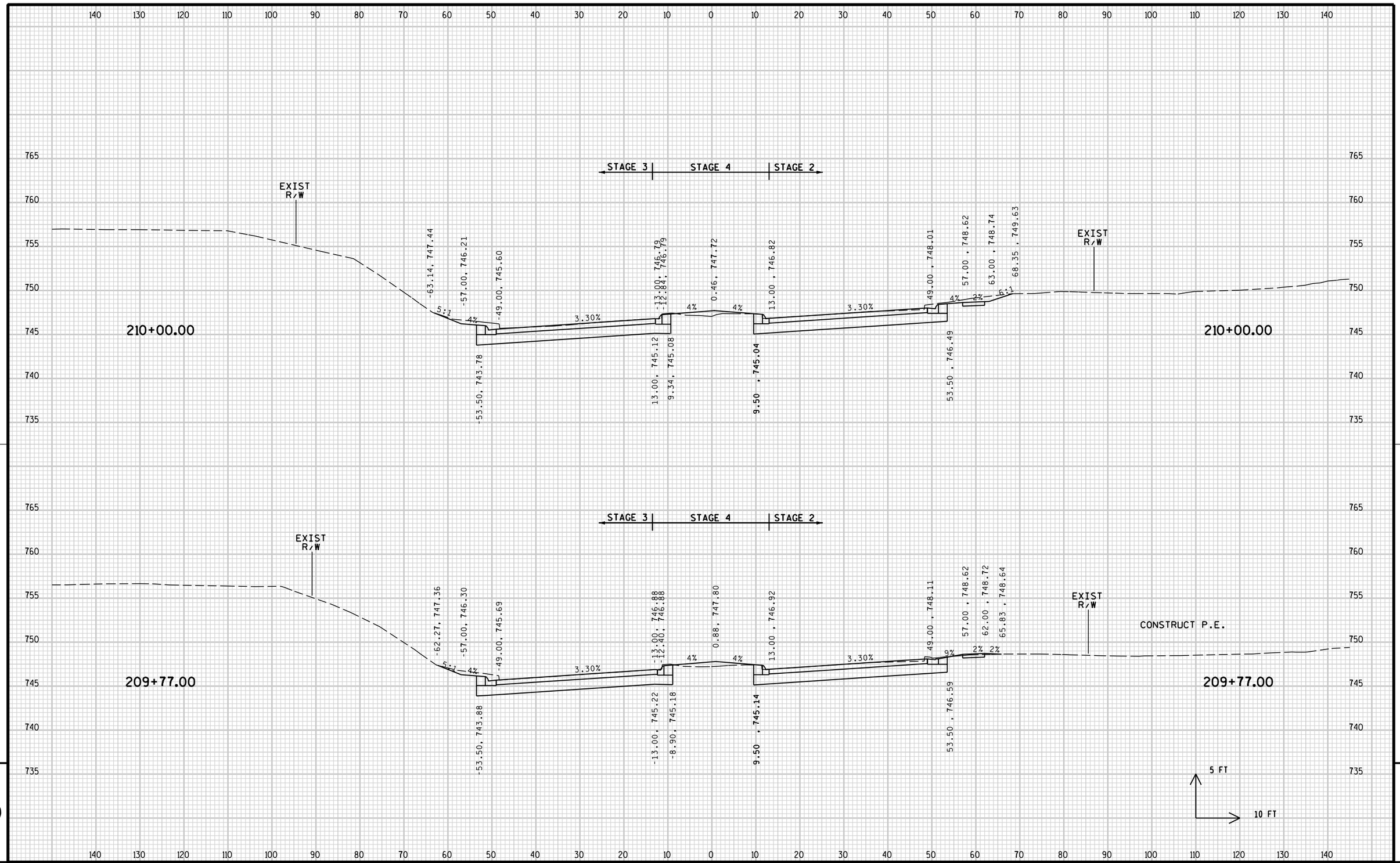
PROJECT NO: 2140-08-73	HWY: STH 181	COUNTY: MILWAUKEE	CROSS SECTIONS: MAINLINE	SHEET 967	E

FILE NAME : s:\@sdi\051--100\089\099\micros\design\0873\090201_xs.dgn PLOT DATE : 7/31/2007 PLOT BY : $$...plotuser...$$ PLOT NAME : PLOT SCALE : $$.....plotscale.....$$ WISDOT/CADDS SHEET 21



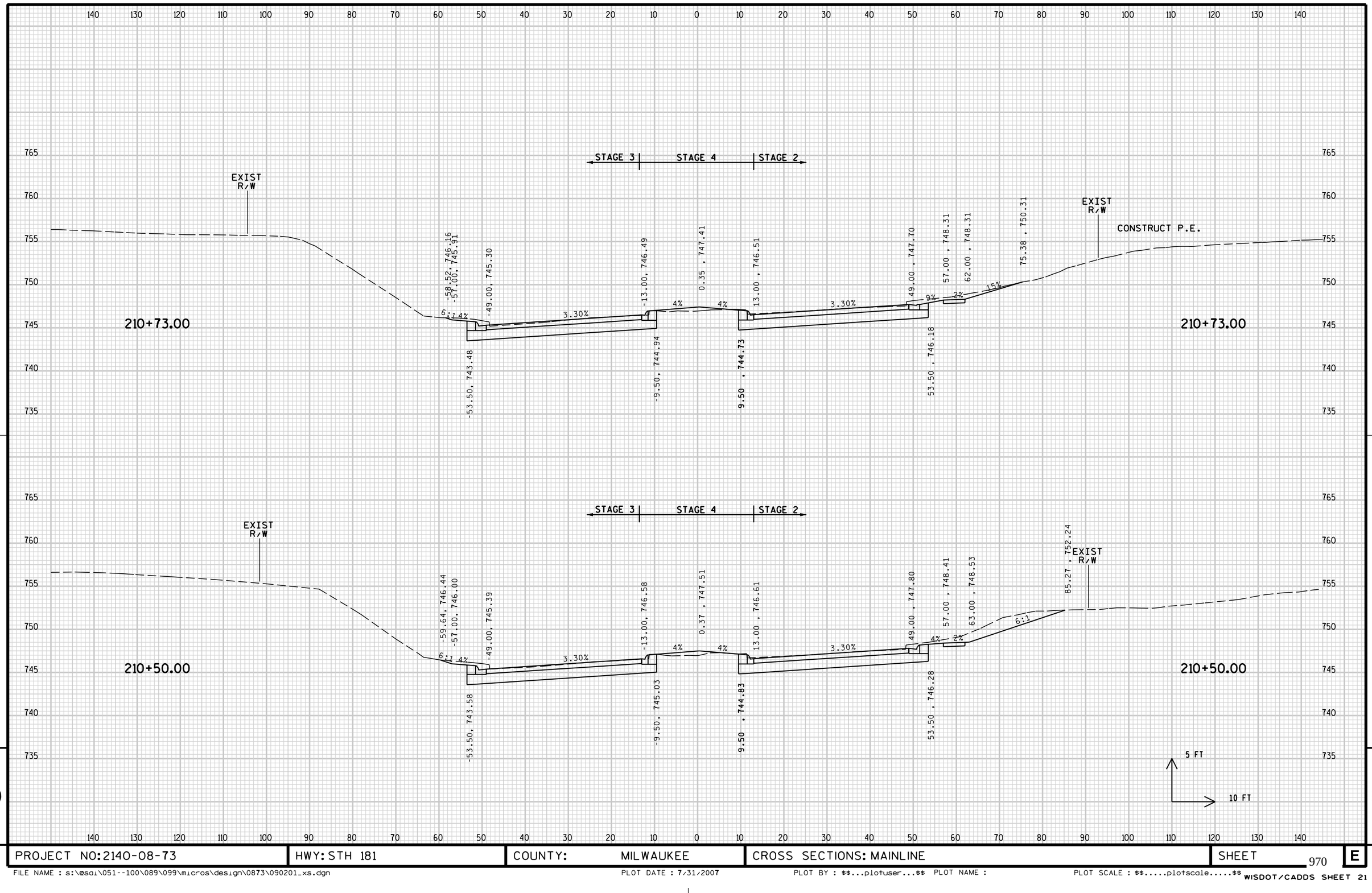
PROJECT NO: 2140-08-73	HWY: STH 181	COUNTY: MILWAUKEE	CROSS SECTIONS: MAINLINE	SHEET 968	E

FILE NAME : s:\@sdi\051--100\089\099\micros\design\0873\090201_xs.dgn PLOT DATE : 7/31/2007 PLOT BY : $$...plotuser...$$ PLOT NAME : PLOT SCALE : $$.....plotscale.....$$ WISDOT/CADDS SHEET 21



PROJECT NO: 2140-08-73	HWY: STH 181	COUNTY: MILWAUKEE	CROSS SECTIONS: MAINLINE	SHEET	E

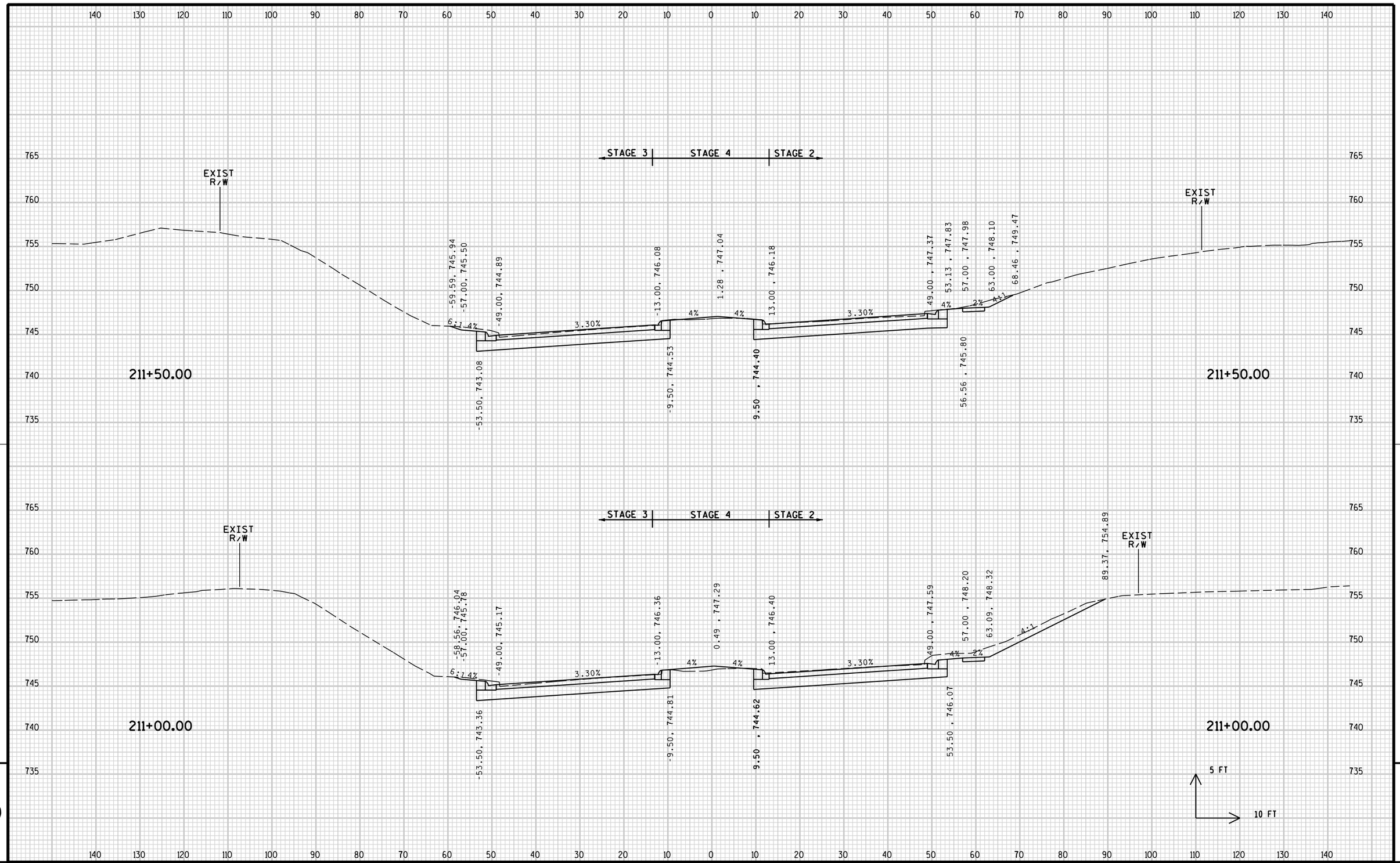
FILE NAME : s:\@sdi\051--100\089\099\micros\design\0873\090201_xs.dgn PLOT DATE : 7/31/2007 PLOT BY : $$...plotuser...$$ PLOT NAME : PLOT SCALE : $$.....plotscale.....$$ WISDOT/CADDS SHEET 21



9

9

PROJECT NO: 2140-08-73	HWY: STH 181	COUNTY: MILWAUKEE	CROSS SECTIONS: MAINLINE	SHEET 970	E

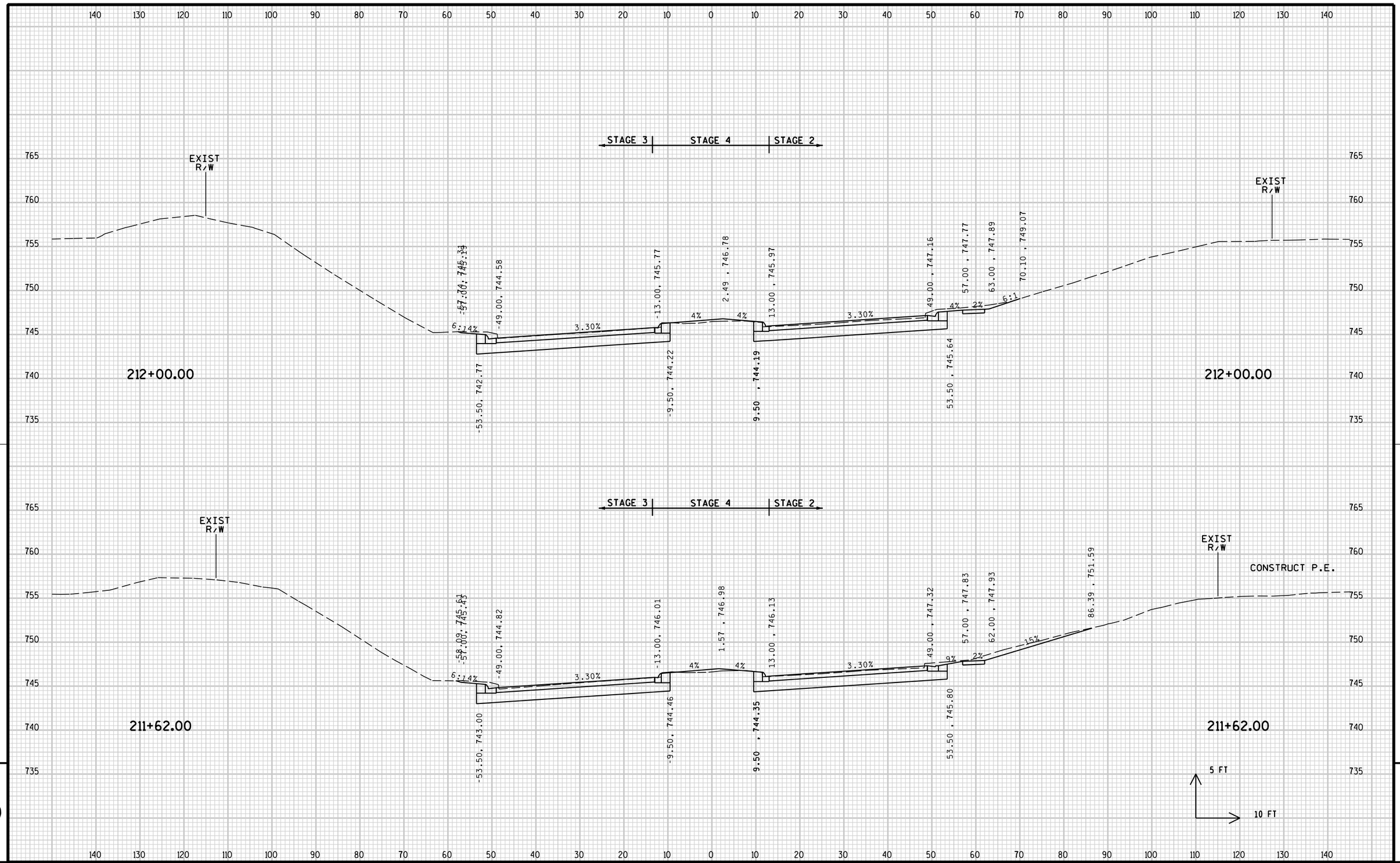


9

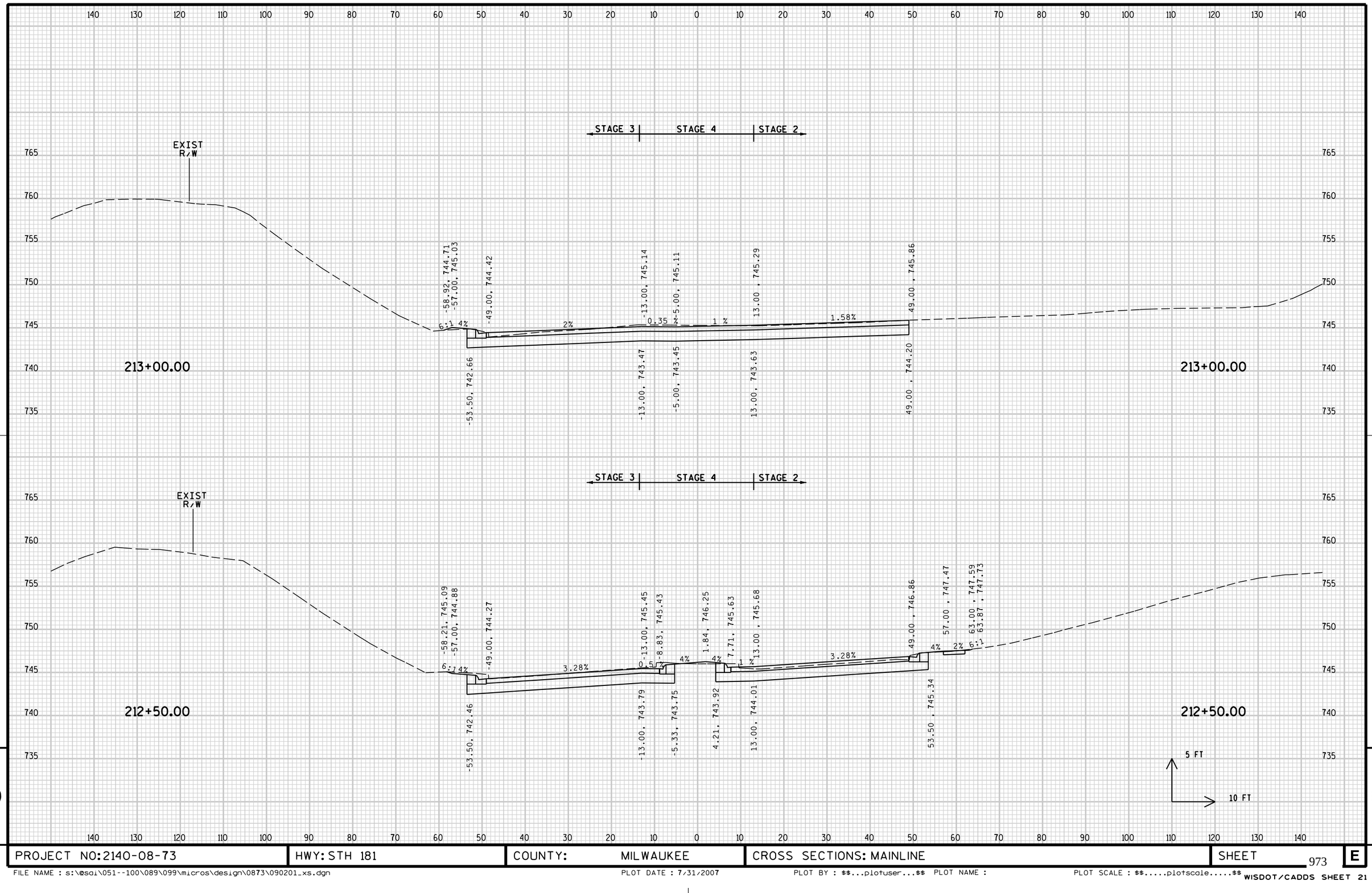
9

PROJECT NO: 2140-08-73	HWY: STH 181	COUNTY: MILWAUKEE	CROSS SECTIONS: MAINLINE	SHEET	E

FILE NAME : s:\@sdi\051--100\089\099\micros\design\0873\090201_xs.dgn PLOT DATE : 7/31/2007 PLOT BY : $$...plotuser...$$ PLOT NAME : PLOT SCALE : $$.....plotscale.....$$ WISDOT/CADDS SHEET 21

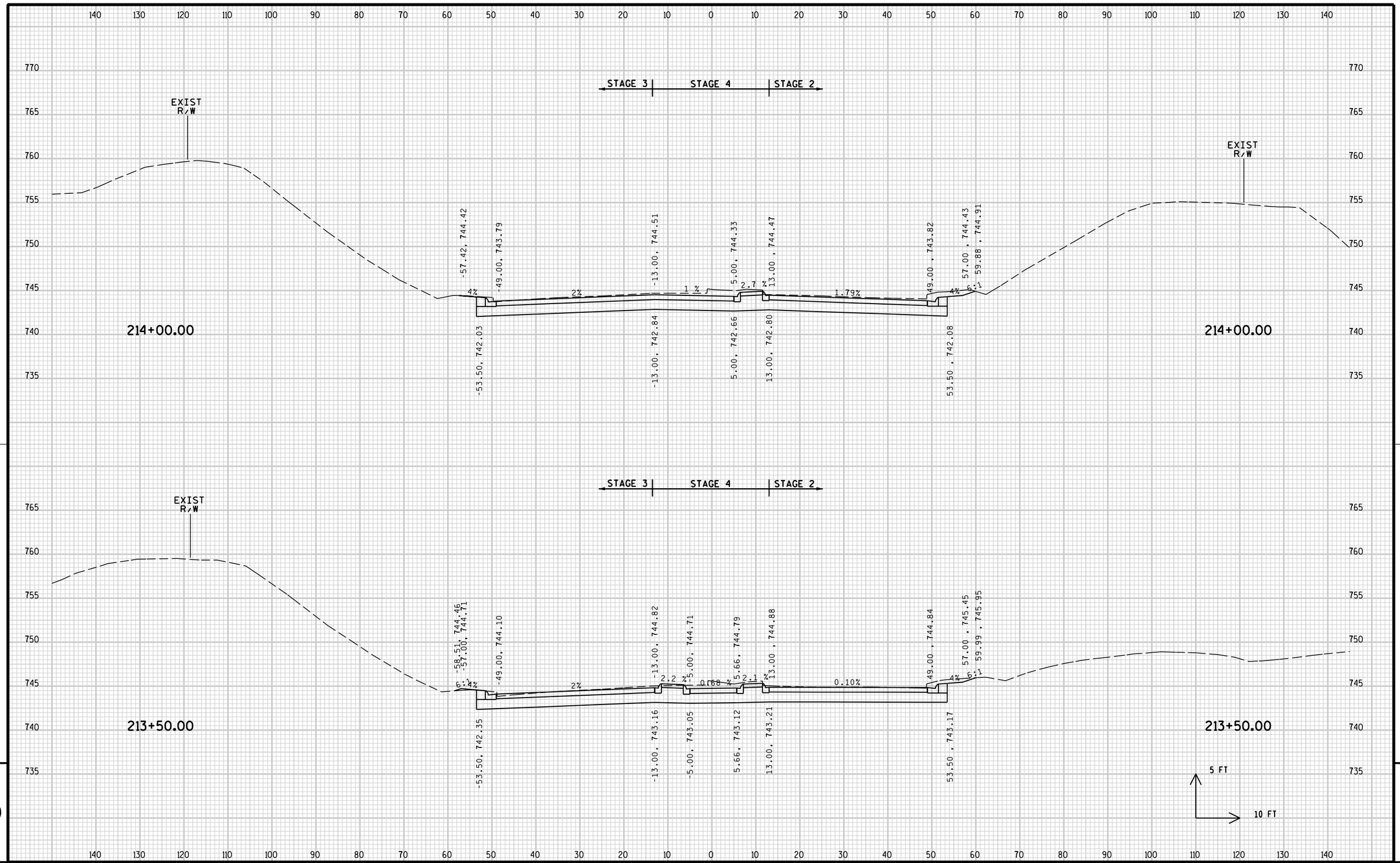


PROJECT NO: 2140-08-73	HWY: STH 181	COUNTY: MILWAUKEE	CROSS SECTIONS: MAINLINE	SHEET	E



PROJECT NO:2140-08-73	HWY: STH 181	COUNTY: MILWAUKEE	CROSS SECTIONS: MAINLINE	SHEET	E

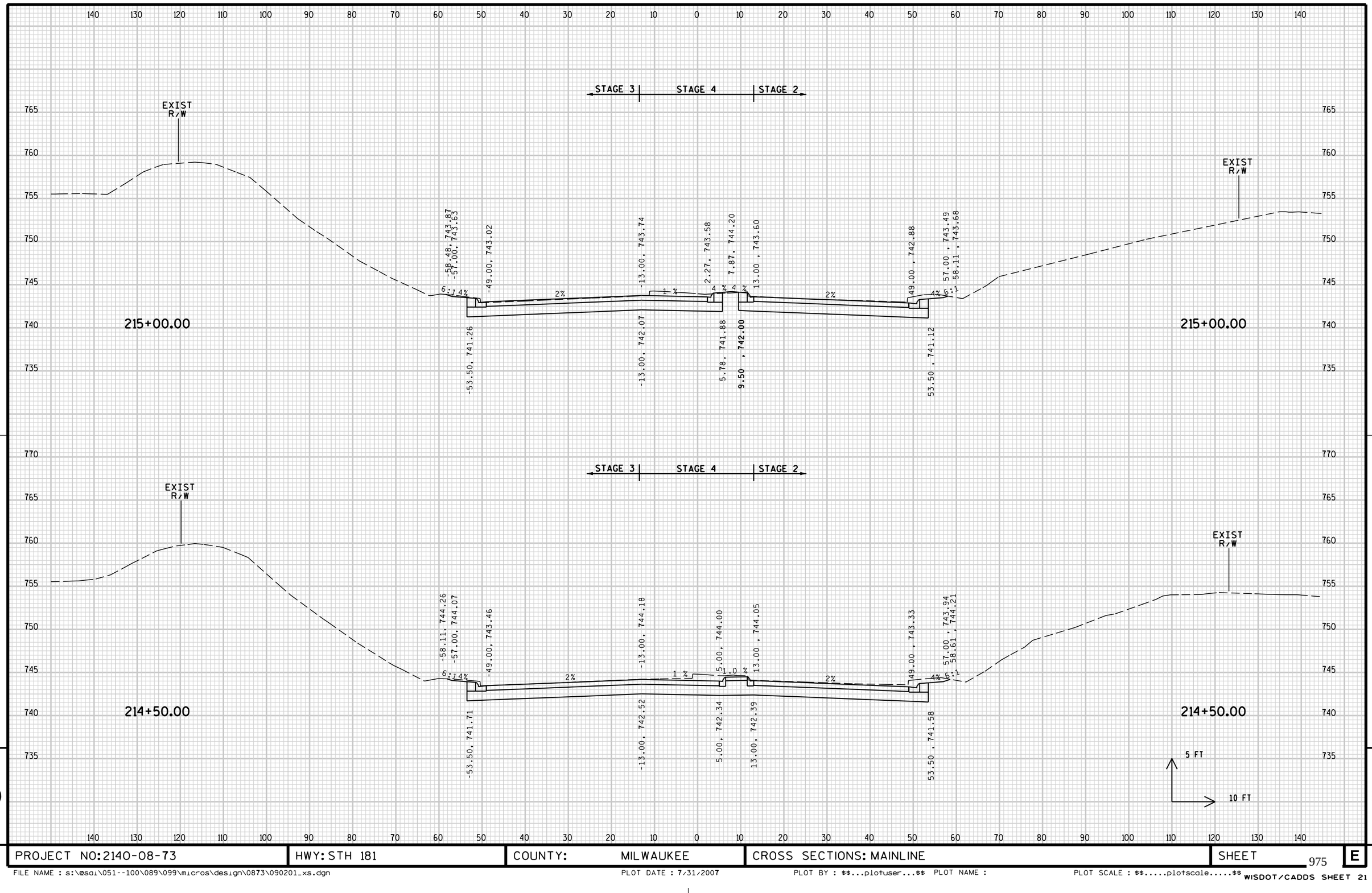
FILE NAME : s:\@sdi\051--100\089\099\micros\design\0873\090201_xs.dgn PLOT DATE : 7/31/2007 PLOT BY : $$...plotuser...$$ PLOT NAME : PLOT SCALE : $$.....plotscale.....$$



9

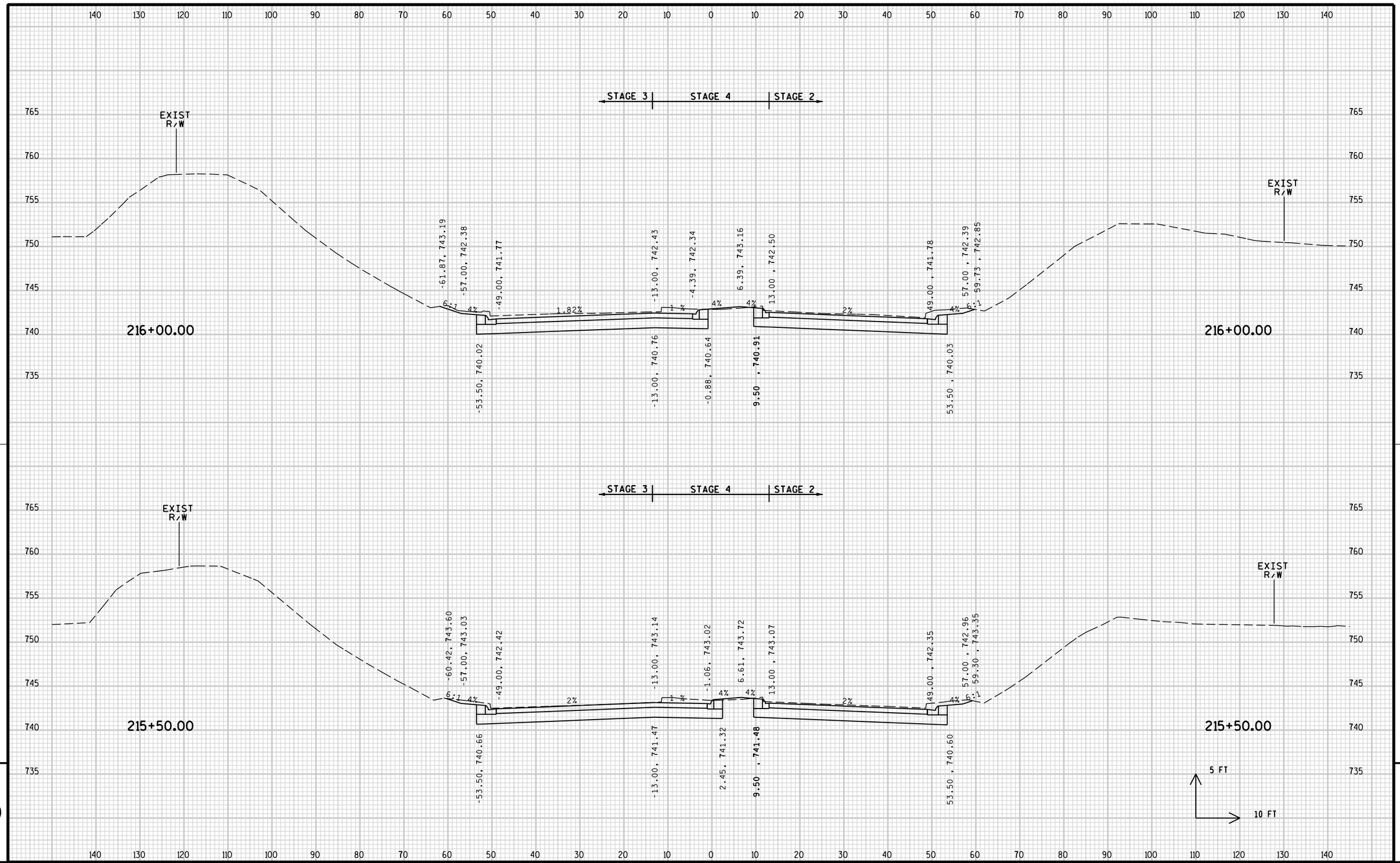
9

PROJECT NO: 2140-08-73	HWY: STH 181	COUNTY: MILWAUKEE	CROSS SECTIONS: MAINLINE	SHEET 974	E



PROJECT NO:2140-08-73	HWY: STH 181	COUNTY: MILWAUKEE	CROSS SECTIONS: MAINLINE	SHEET	E

FILE NAME : s:\@sdi\051--100\089\099\micros\design\0873\090201_xs.dgn PLOT DATE : 7/31/2007 PLOT BY : $$...plotuser...$$ PLOT NAME : PLOT SCALE : $$.....plotscale.....$$



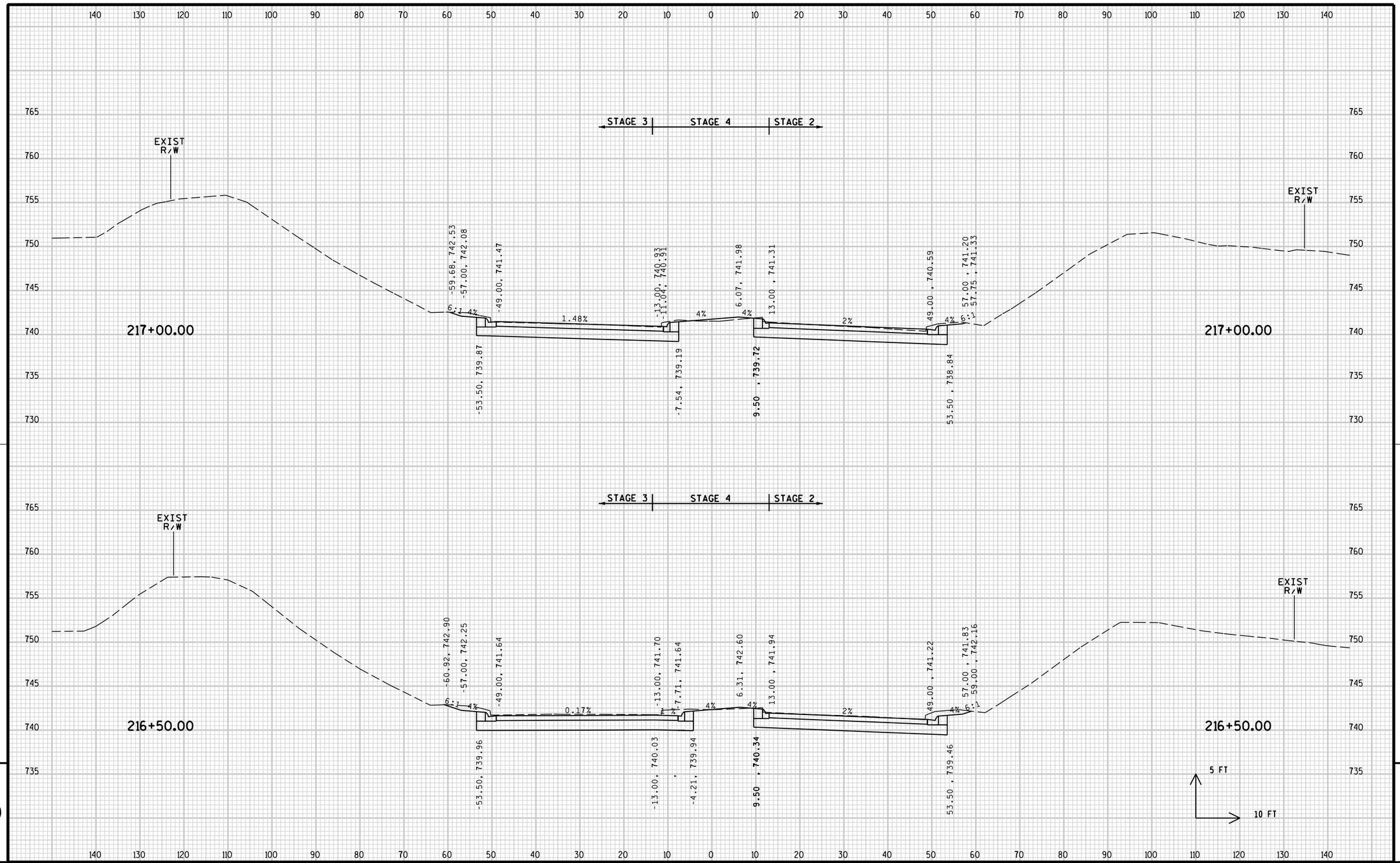
9

9

PROJECT NO: 2140-08-73	HWY: STH 181	COUNTY: MILWAUKEE	CROSS SECTIONS: MAINLINE	SHEET	E

FILE NAME : s:\@sdi\051--100\089\099\micros\design\0873\090201_xs.dgn PLOT DATE : 7/31/2007 PLOT BY : $$...plotuser...$$ PLOT NAME : PLOT SCALE : $$.....plotscale.....$$

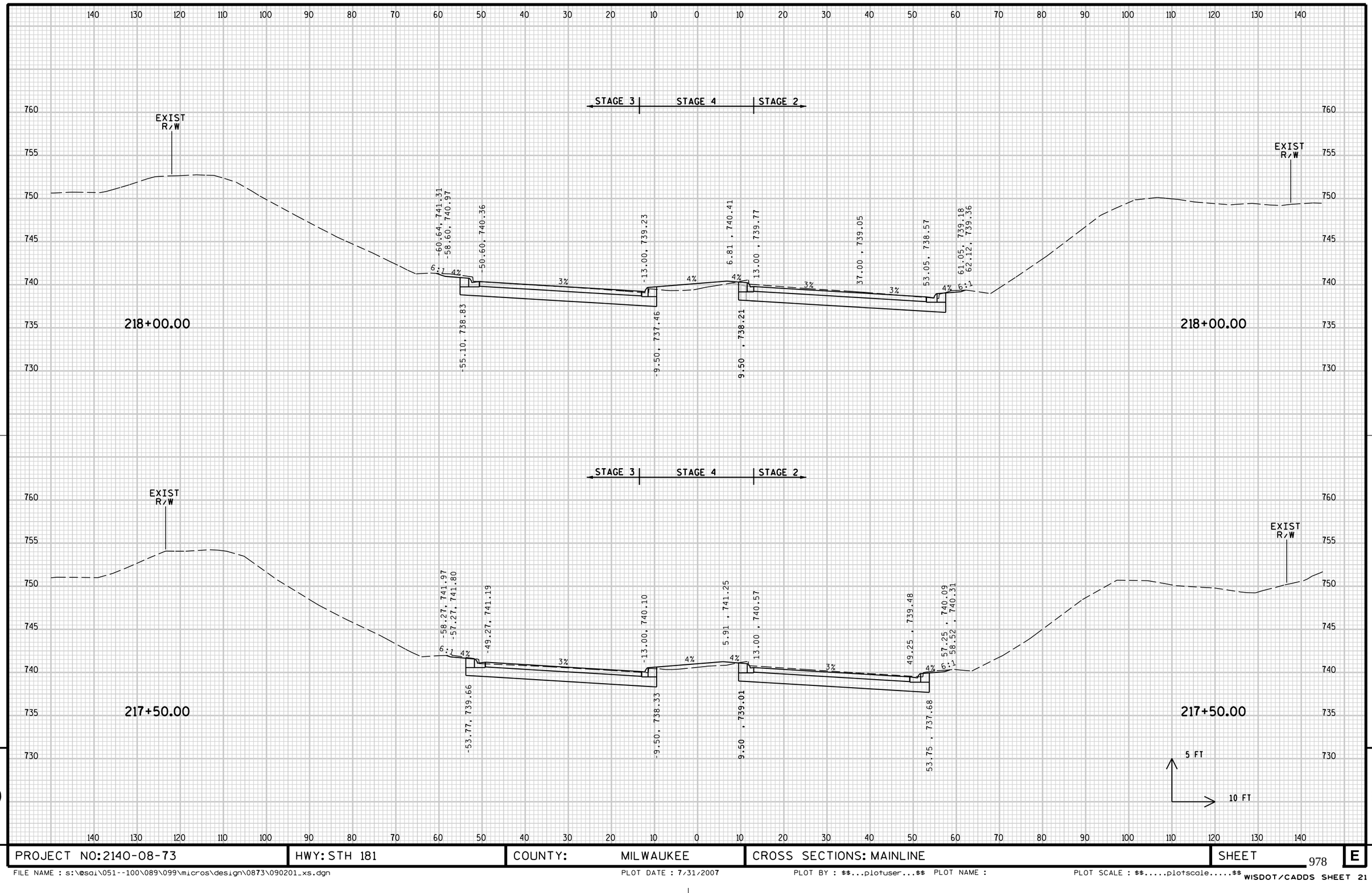
WISDOT/CADDS SHEET 21



PROJECT NO: 2140-08-73	HWY: STH 181	COUNTY: MILWAUKEE	CROSS SECTIONS: MAINLINE	SHEET 977	E

FILE NAME : s:\@sdi\051--100\089\099\micros\design\0873\090201_xs.dgn PLOT DATE : 7/31/2007 PLOT BY : $$...plotuser...$$ PLOT NAME : PLOT SCALE : $$.....plotscale.....$$

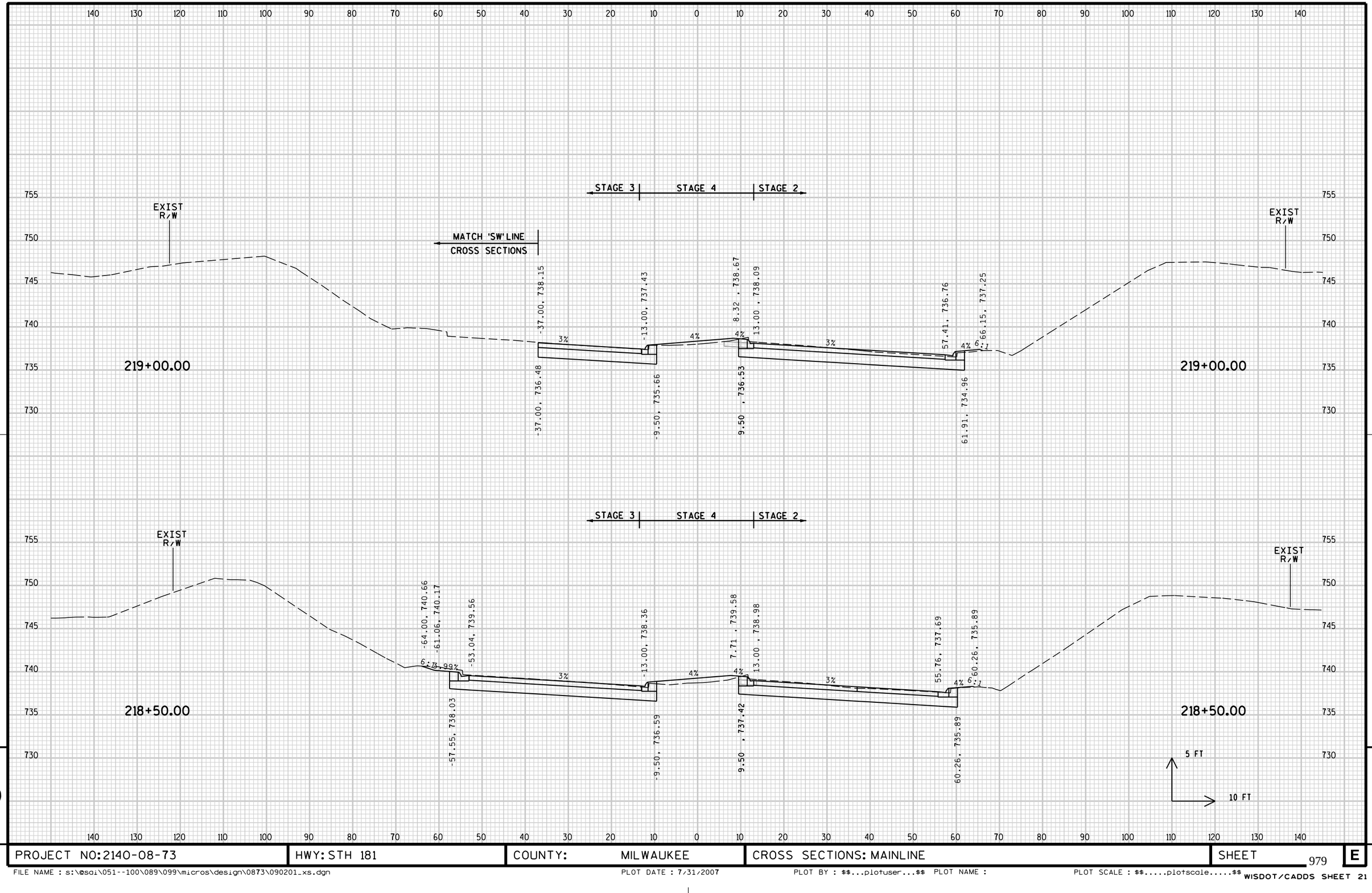
WISDOT/CADDS SHEET 21



9

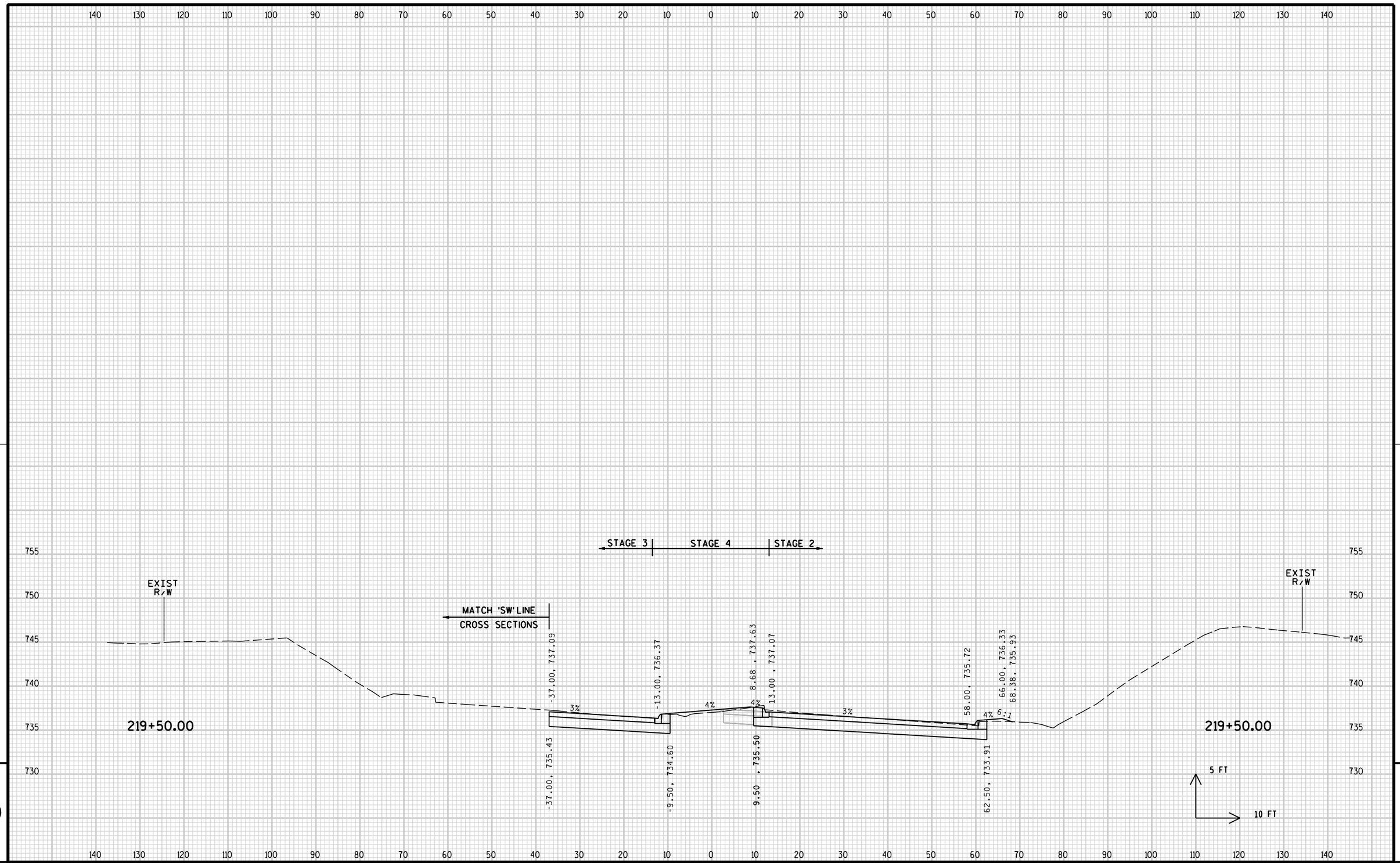
9

PROJECT NO: 2140-08-73	HWY: STH 181	COUNTY: MILWAUKEE	CROSS SECTIONS: MAINLINE	SHEET 978 E



PROJECT NO: 2140-08-73	HWY: STH 181	COUNTY: MILWAUKEE	CROSS SECTIONS: MAINLINE	SHEET 979 E

FILE NAME : s:\@sdi\051--100\089\099\micros\design\0873\090201_xs.dgn PLOT DATE : 7/31/2007 PLOT BY : $$...plotuser...$$ PLOT NAME : PLOT SCALE : $$.....plotscale.....$$ WISDOT/CADDS SHEET 21

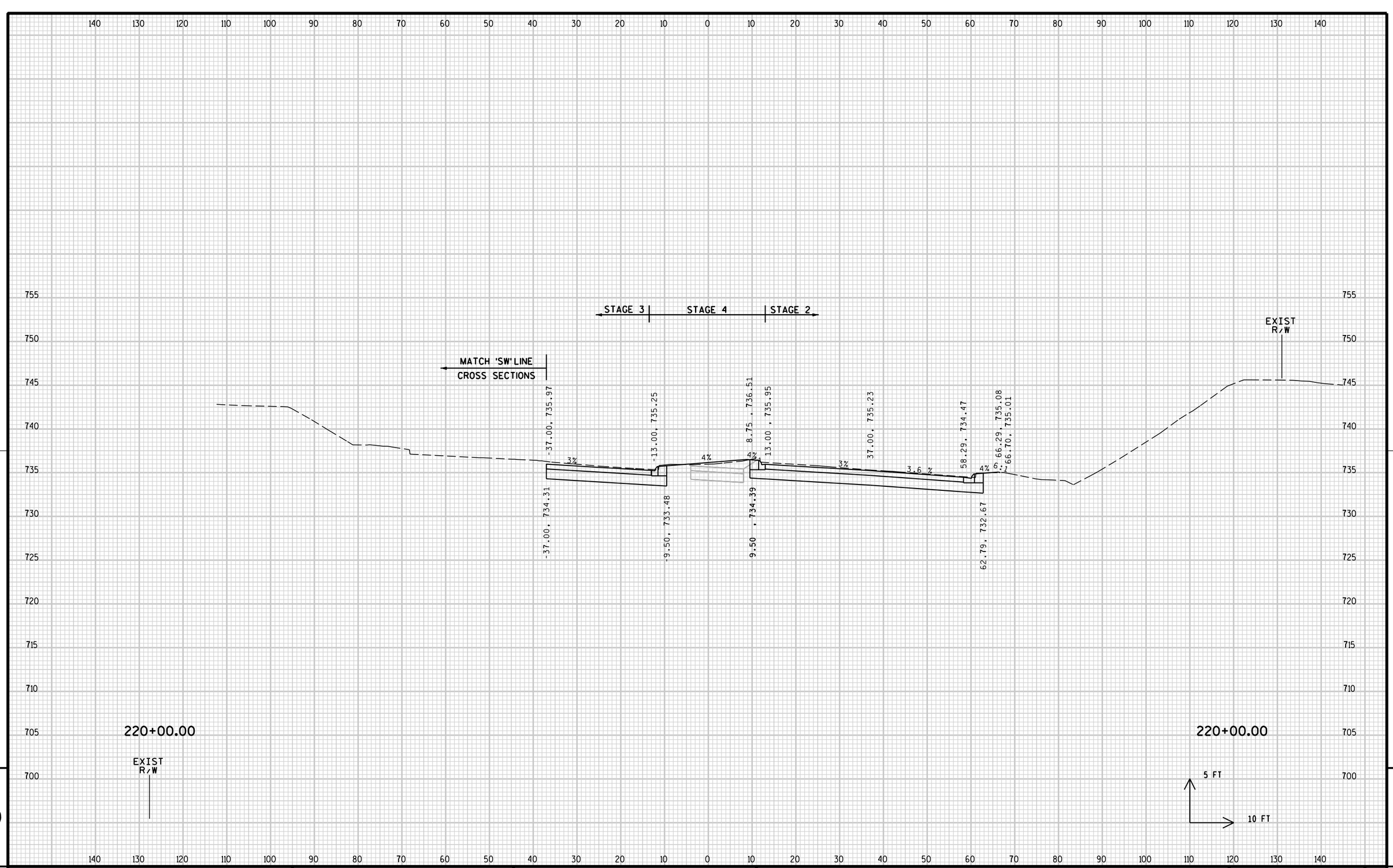


9 9

PROJECT NO: 2140-08-73	HWY: STH 181	COUNTY: MILWAUKEE	CROSS SECTIONS: MAINLINE	SHEET 980	E

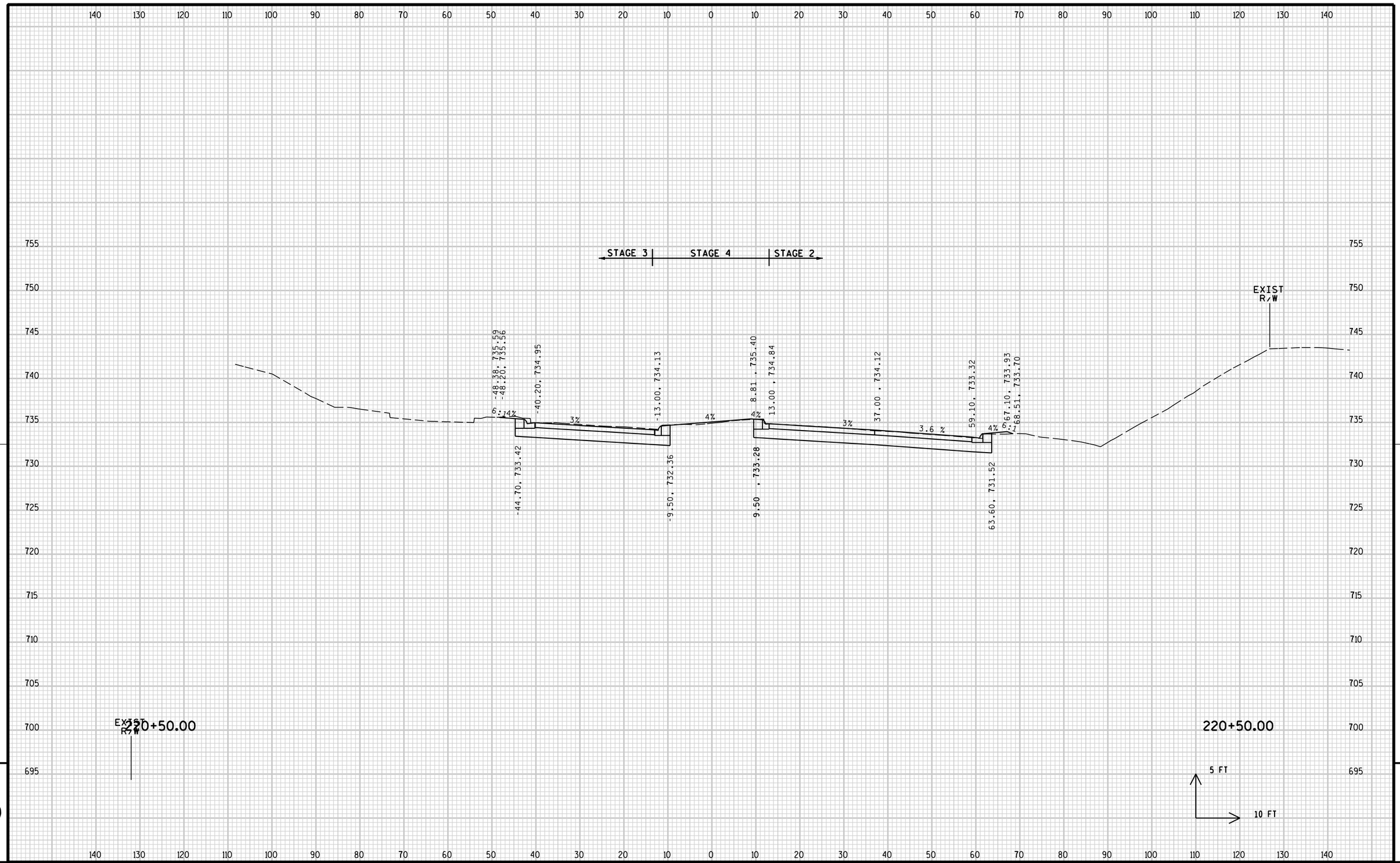
FILE NAME : s:\@sdi\051--100\089\099\micros\design\0873\090201_xs.dgn PLOT DATE : 7/31/2007 PLOT BY : $$...plotuser...$$ PLOT NAME : PLOT SCALE : $$.....plotscale.....$$

WISDOT/CADDS SHEET 21



PROJECT NO: 2140-08-73	HWY: STH 181	COUNTY: MILWAUKEE	CROSS SECTIONS: MAINLINE	SHEET 981	E

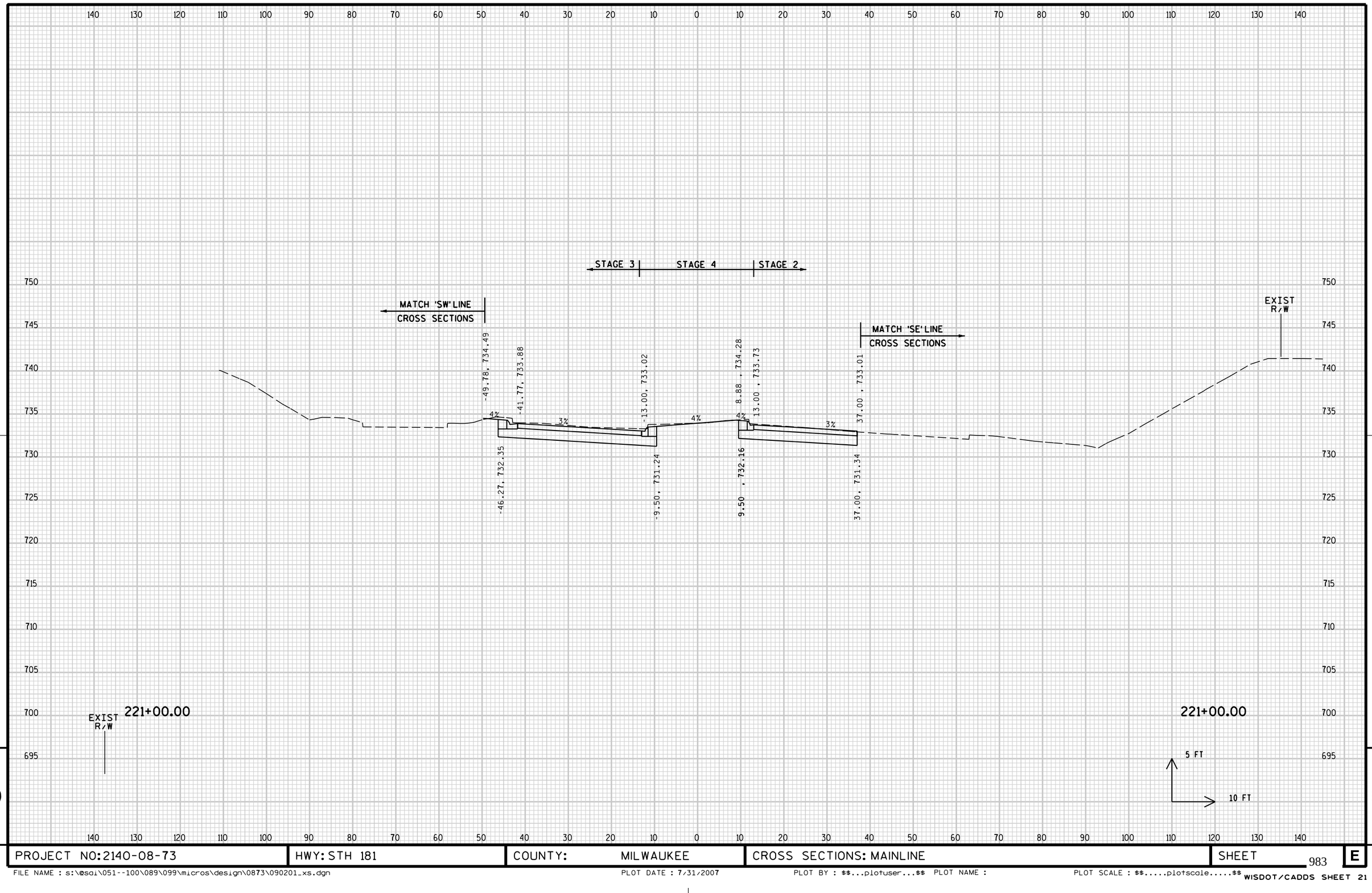
FILE NAME : s:\@sai\051--100\089\099\micros\design\0873\090201_xs.dgn PLOT DATE : 7/31/2007 PLOT BY : $$...plotuser...$$ PLOT NAME : PLOT SCALE : $$.....plotscale.....$$ WISDOT/CADDS SHEET 21



9

9

PROJECT NO:2140-08-73	HWY: STH 181	COUNTY: MILWAUKEE	CROSS SECTIONS: MAINLINE	SHEET 982	E



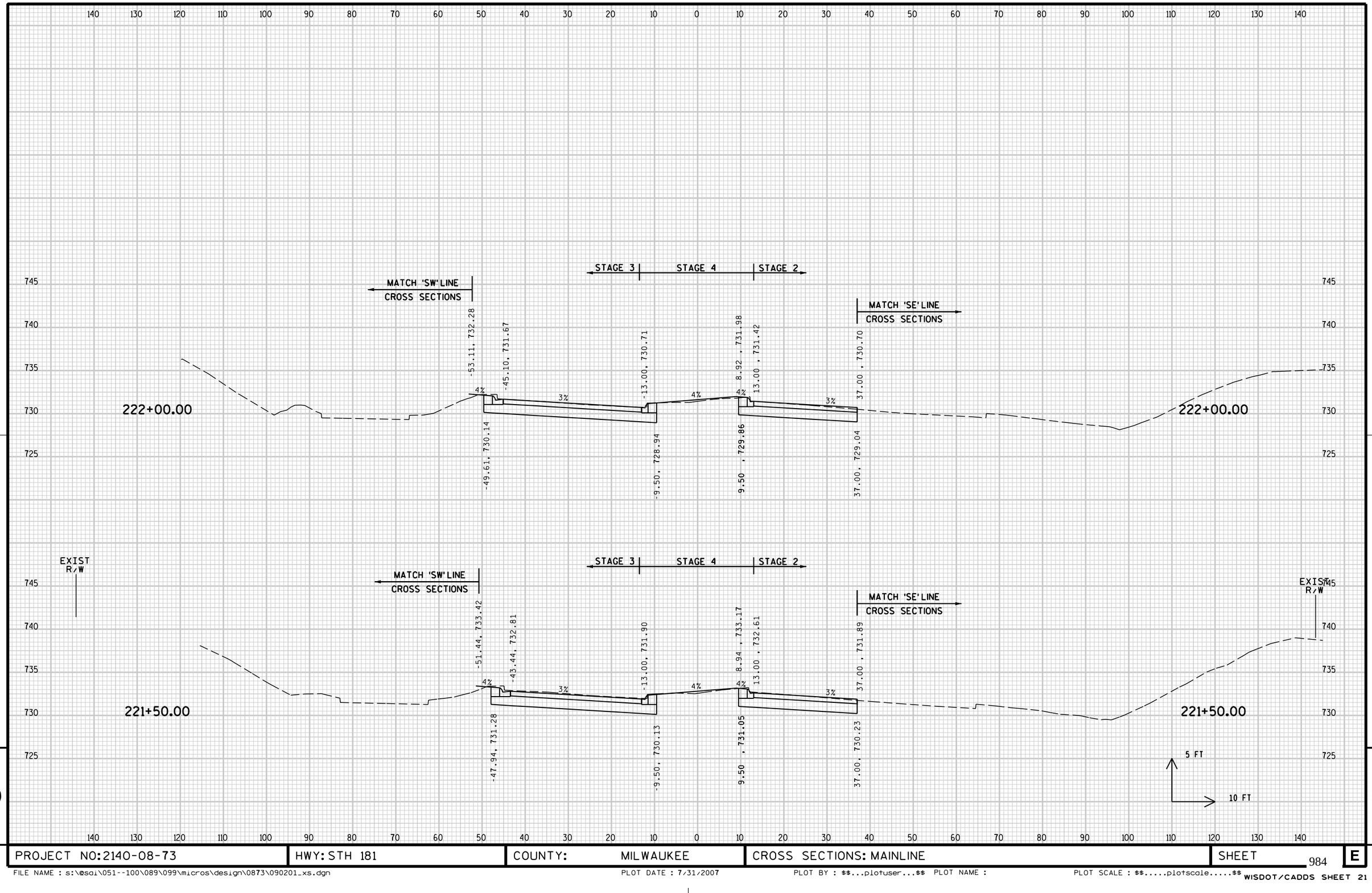
9

9

PROJECT NO: 2140-08-73	HWY: STH 181	COUNTY: MILWAUKEE	CROSS SECTIONS: MAINLINE	SHEET 983	E

FILE NAME : s:\@sdi\051--100\089\099\micros\design\0873\090201_xs.dgn PLOT DATE : 7/31/2007 PLOT BY : $$...plotuser...$$ PLOT NAME : PLOT SCALE : $$.....plotscale.....$$

WISDOT/CADDS SHEET 21

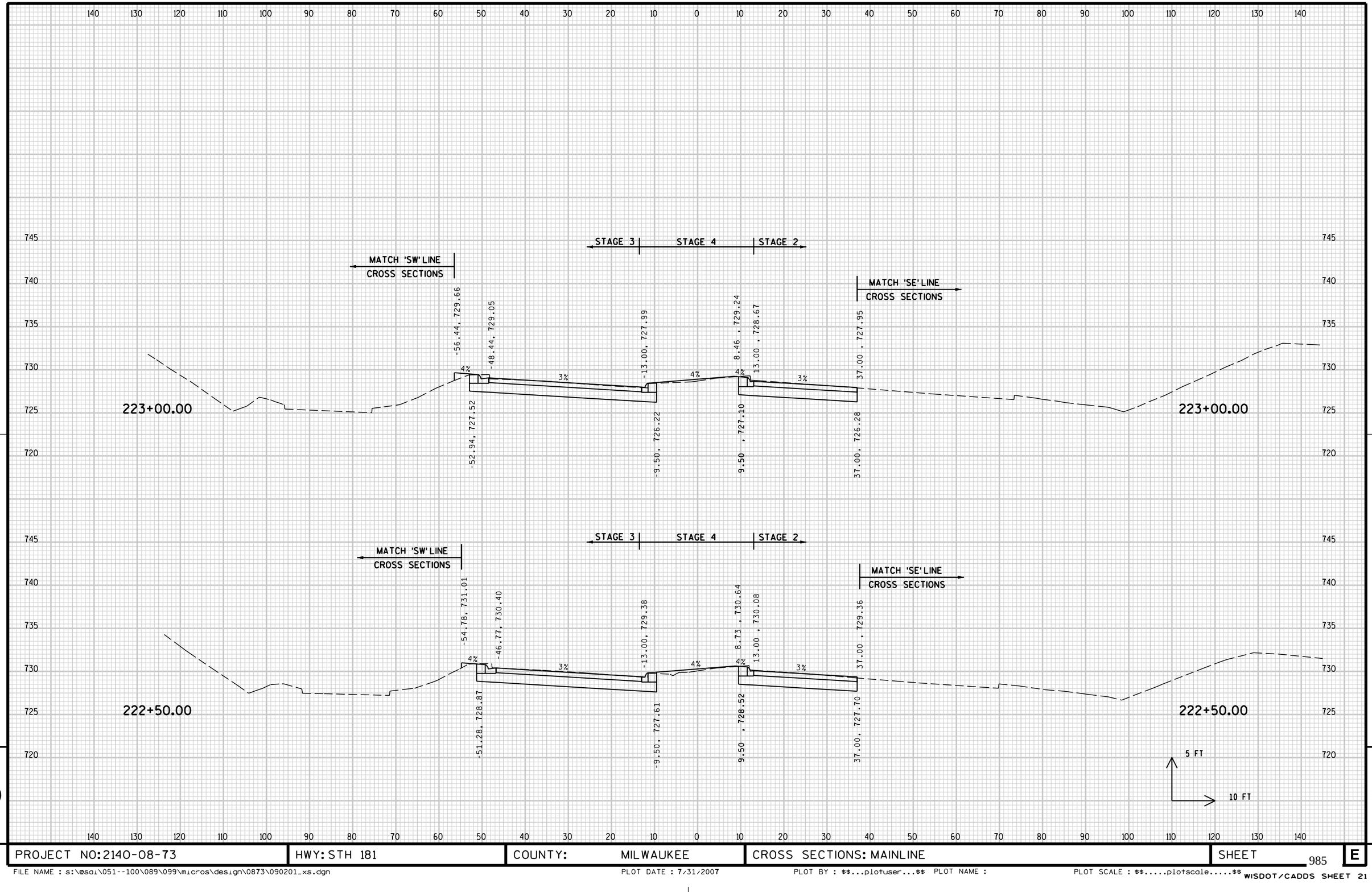


9

9

PROJECT NO: 2140-08-73	HWY: STH 181	COUNTY: MILWAUKEE	CROSS SECTIONS: MAINLINE	SHEET 984	E

FILE NAME : s:\@sdi\051--100\089\099\micros\design\0873\090201_xs.dgn PLOT DATE : 7/31/2007 PLOT BY : $$...plotuser...$$ PLOT NAME : PLOT SCALE : $$.....plotscale.....$$ WISDOT/CADDS SHEET 21



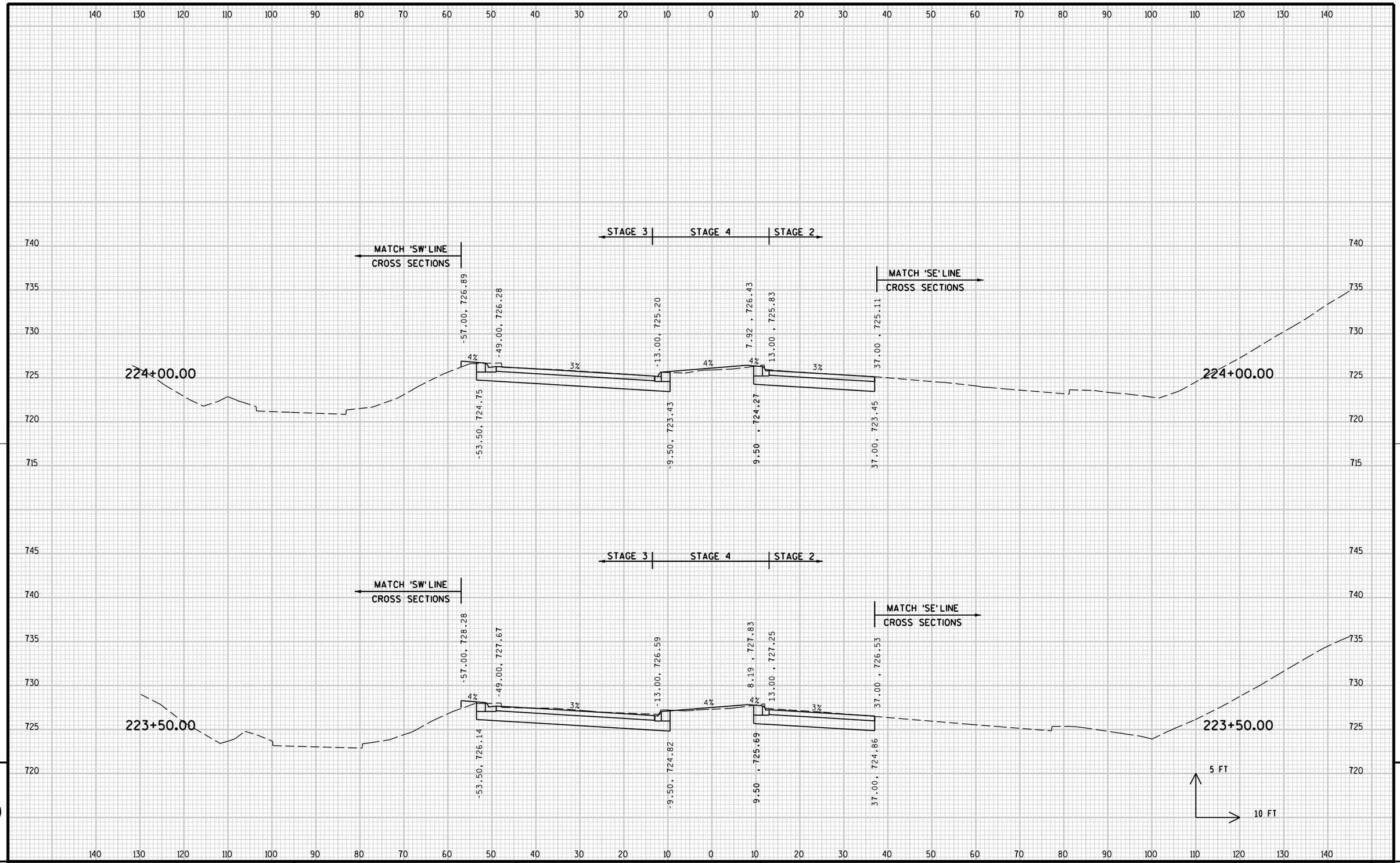
9

9

PROJECT NO: 2140-08-73	HWY: STH 181	COUNTY: MILWAUKEE	CROSS SECTIONS: MAINLINE	SHEET 985	E

FILE NAME : s:\@sdi\051--100\089\099\micros\design\0873\090201_xs.dgn PLOT DATE : 7/31/2007 PLOT BY : $$...plotuser...$$ PLOT NAME : PLOT SCALE : $$.....plotscale.....$$

WISDOT/CADDS SHEET 21

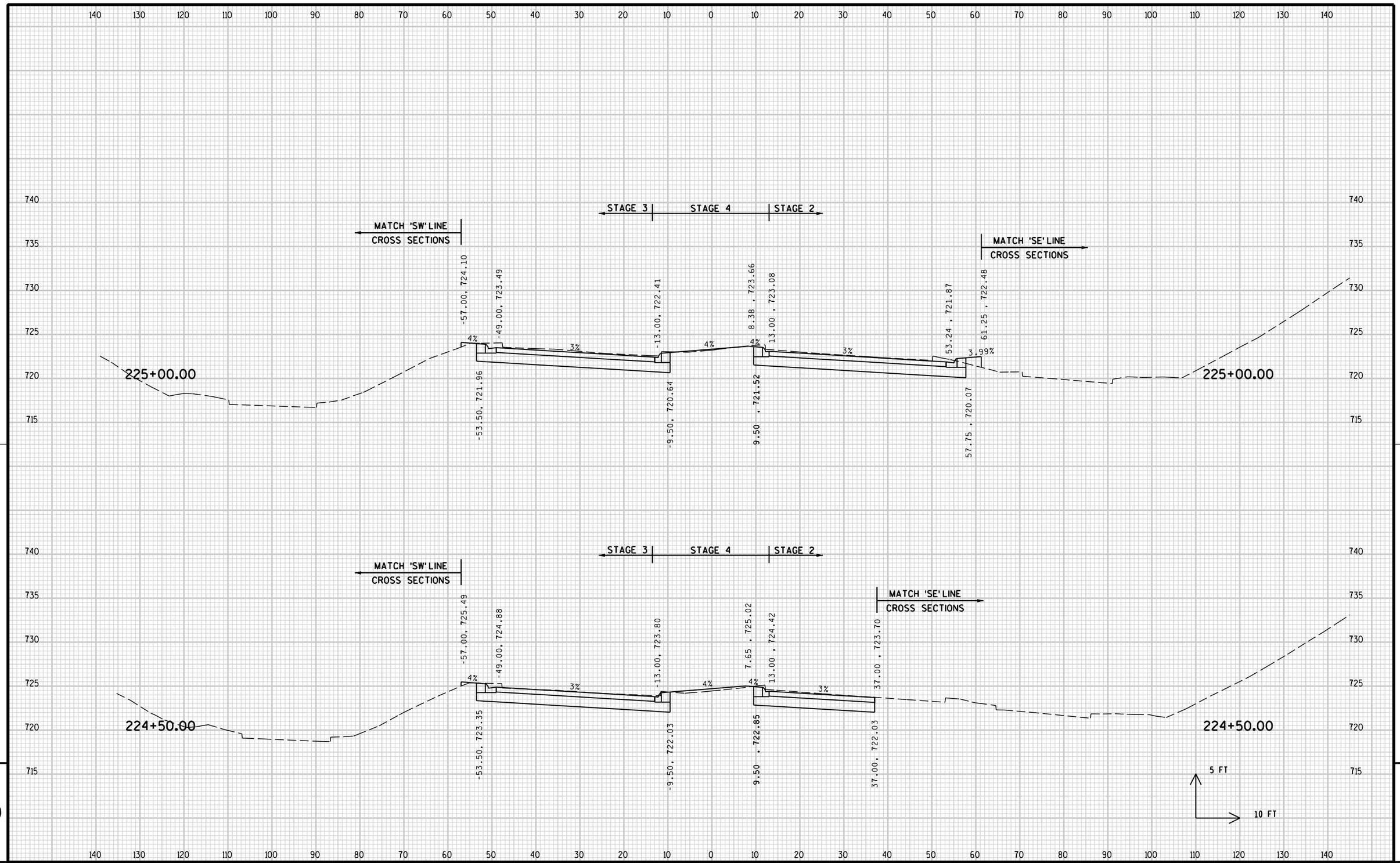


9

9

PROJECT NO: 2140-08-73	HWY: STH 181	COUNTY: MILWAUKEE	CROSS SECTIONS: MAINLINE	SHEET	E

FILE NAME : s:\@sdi\051--100\089\099\micros\design\0873\090201_xs.dgn PLOT DATE : 7/31/2007 PLOT BY : $$...plotuser...$$ PLOT NAME : PLOT SCALE : $$.....plotscale.....$$ WISDOT/CADDS SHEET 21



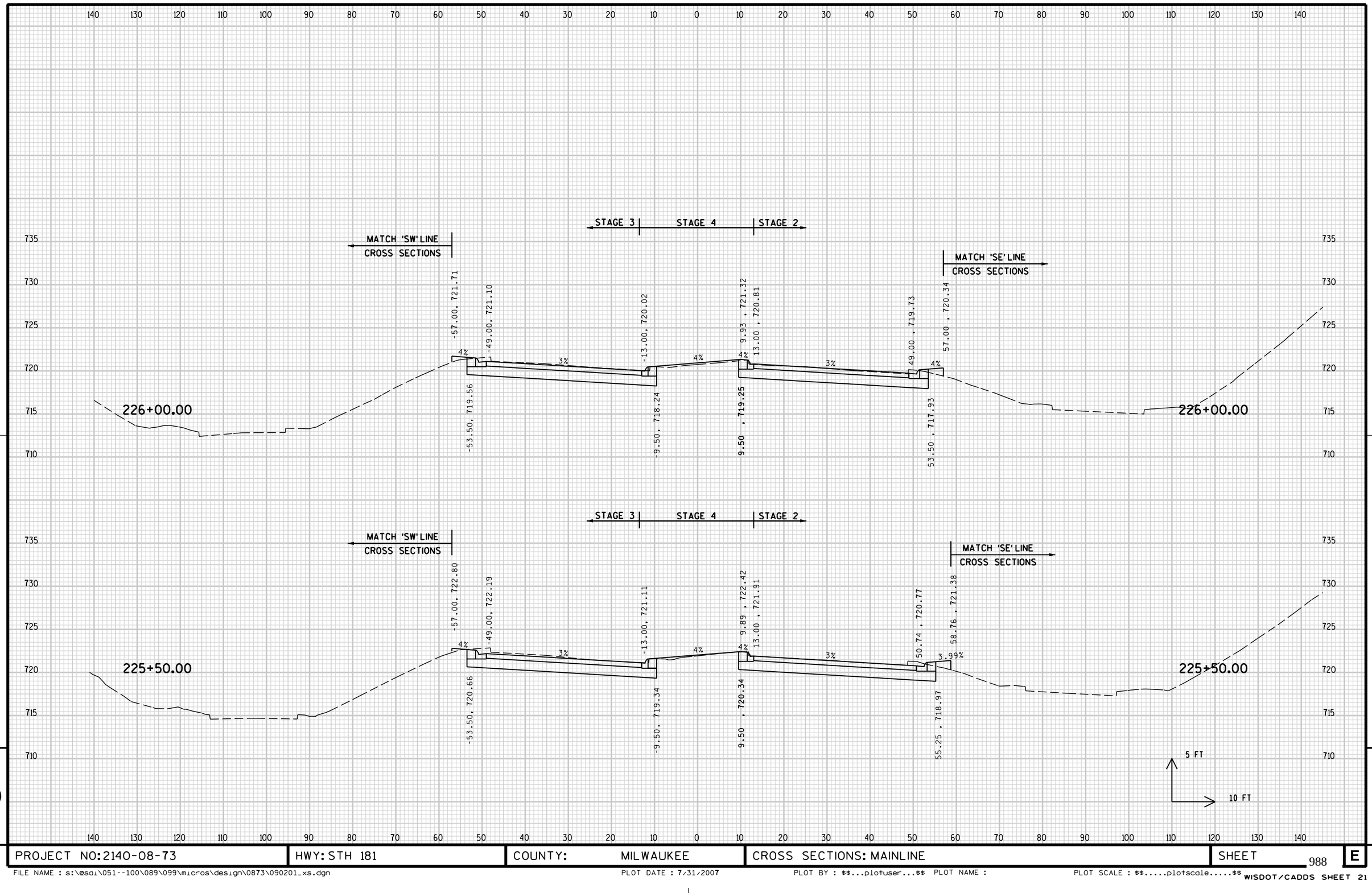
9

9

PROJECT NO: 2140-08-73	HWY: STH 181	COUNTY: MILWAUKEE	CROSS SECTIONS: MAINLINE	SHEET 987	E

FILE NAME : s:\@sdi\051--100\089\099\micros\design\0873\090201_xs.dgn PLOT DATE : 7/31/2007 PLOT BY : $$...plotuser...$$ PLOT NAME : PLOT SCALE : $$.....plotscale.....$$

WISDOT/CADDS SHEET 21



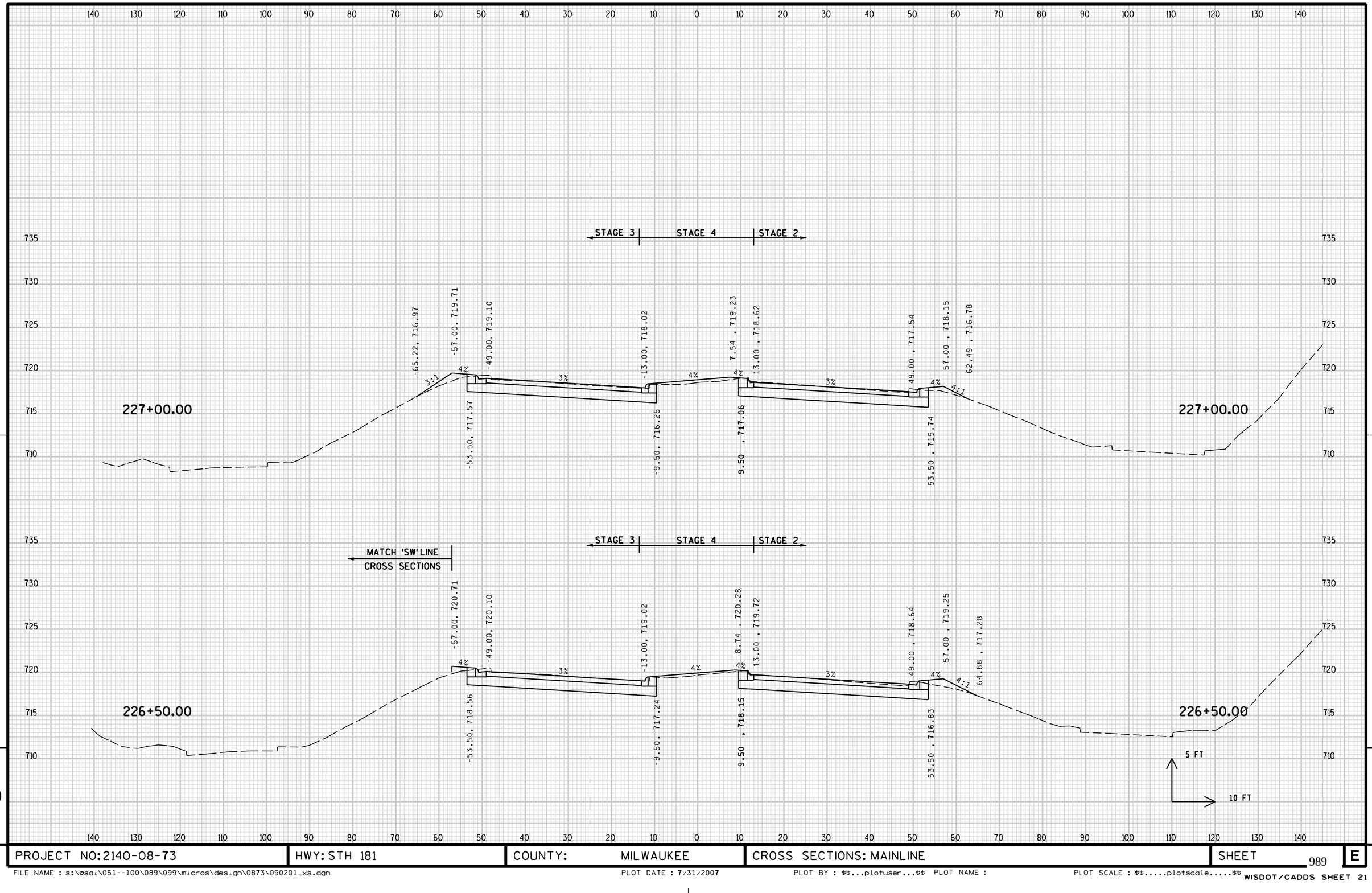
9

9

PROJECT NO: 2140-08-73	HWY: STH 181	COUNTY: MILWAUKEE	CROSS SECTIONS: MAINLINE	SHEET	E

FILE NAME : s:\@sdi\051--100\089\099\micros\design\0873\090201_xs.dgn PLOT DATE : 7/31/2007 PLOT BY : $$...plotuser...$$ PLOT NAME : PLOT SCALE : $$.....plotscale.....$$

WISDOT/CADDS SHEET 21



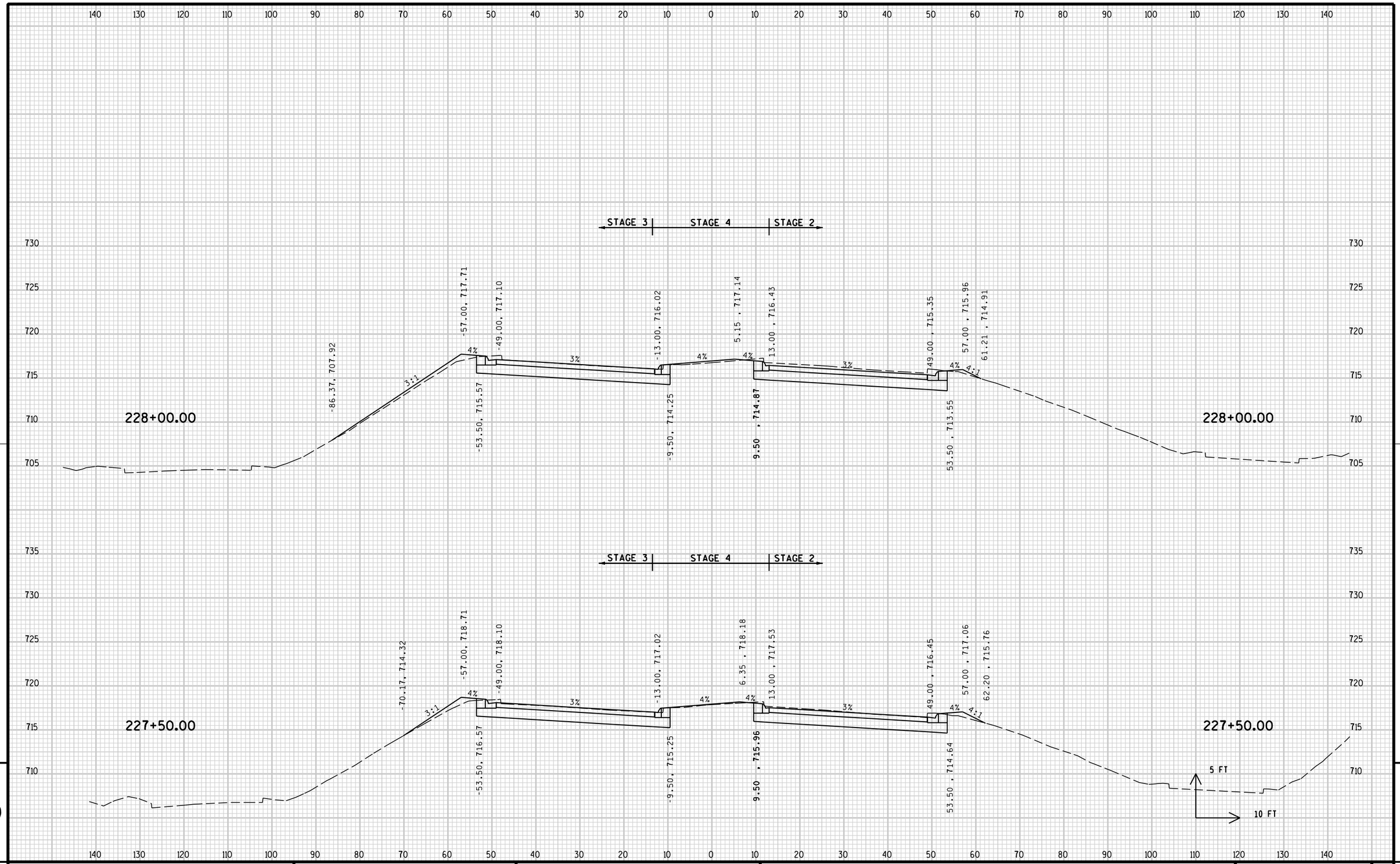
9

9

PROJECT NO: 2140-08-73	HWY: STH 181	COUNTY: MILWAUKEE	CROSS SECTIONS: MAINLINE	SHEET 989	E

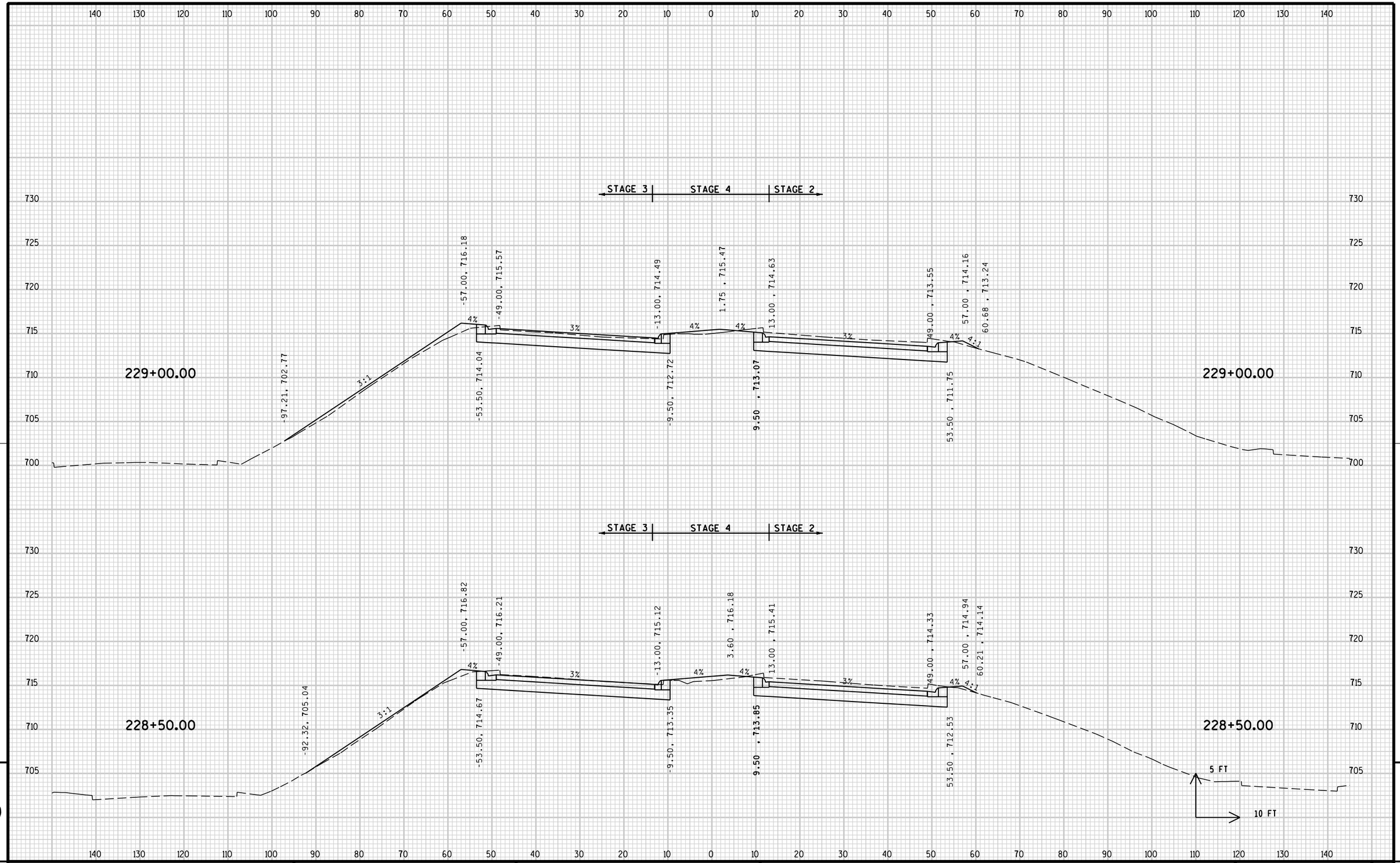
FILE NAME : s:\@sai\051--100\089\099\micros\design\0873\090201_xs.dgn PLOT DATE : 7/31/2007 PLOT BY : $$...plotuser...$$ PLOT NAME : PLOT SCALE : $$.....plotscale.....$$

WISDOT/CADDS SHEET 21



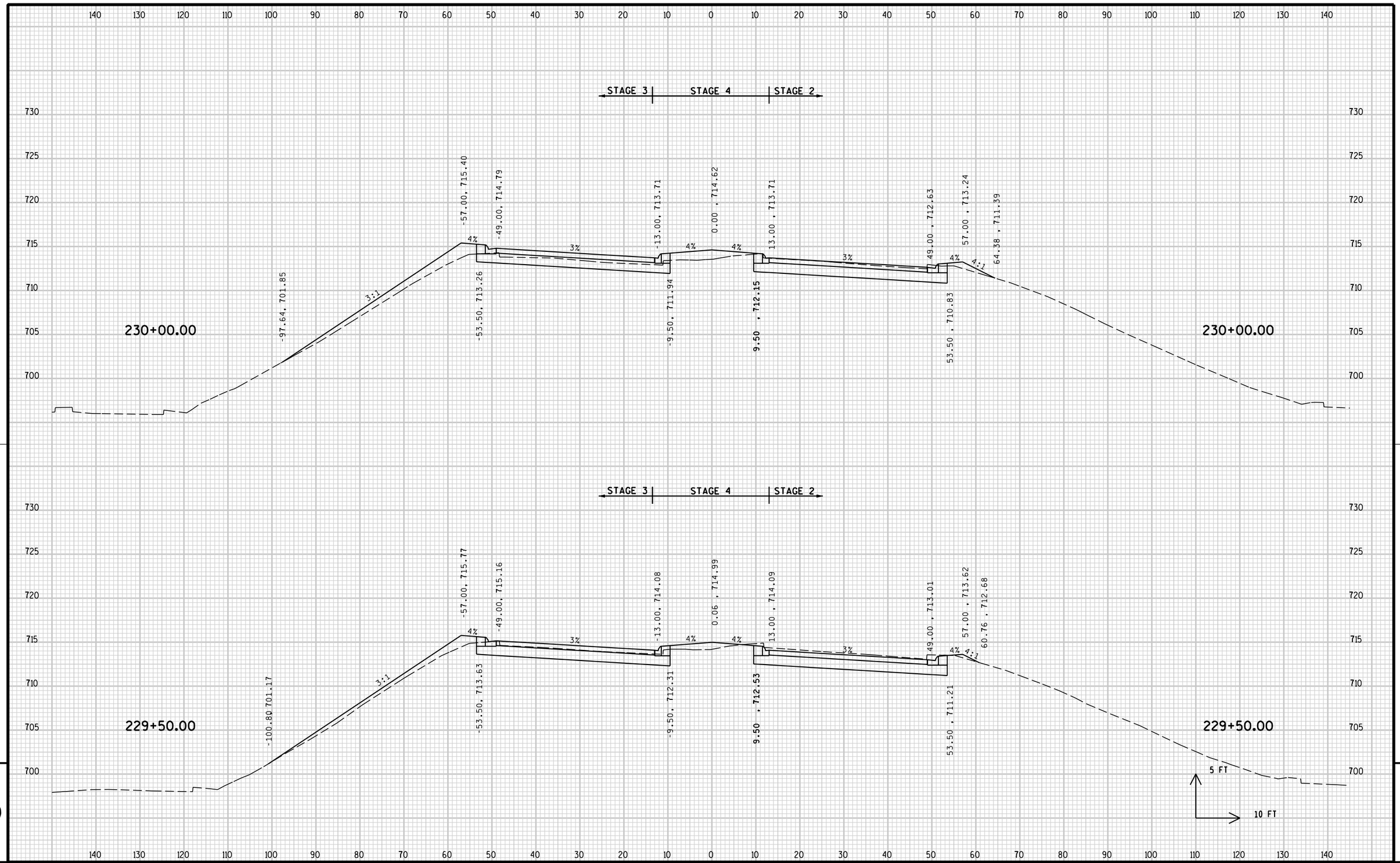
PROJECT NO: 2140-08-73	HWY: STH 181	COUNTY: MILWAUKEE	CROSS SECTIONS: MAINLINE	SHEET 990 E

FILE NAME : s:\@sdi\051--100\089\099\micros\design\0873\090201_xs.dgn PLOT DATE : 7/31/2007 PLOT BY : $$...plotuser...$$ PLOT NAME : PLOT SCALE : $$.....plotscale.....$$ WISDOT/CADDS SHEET 21



PROJECT NO: 2140-08-73	HWY: STH 181	COUNTY: MILWAUKEE	CROSS SECTIONS: MAINLINE	SHEET 991	E

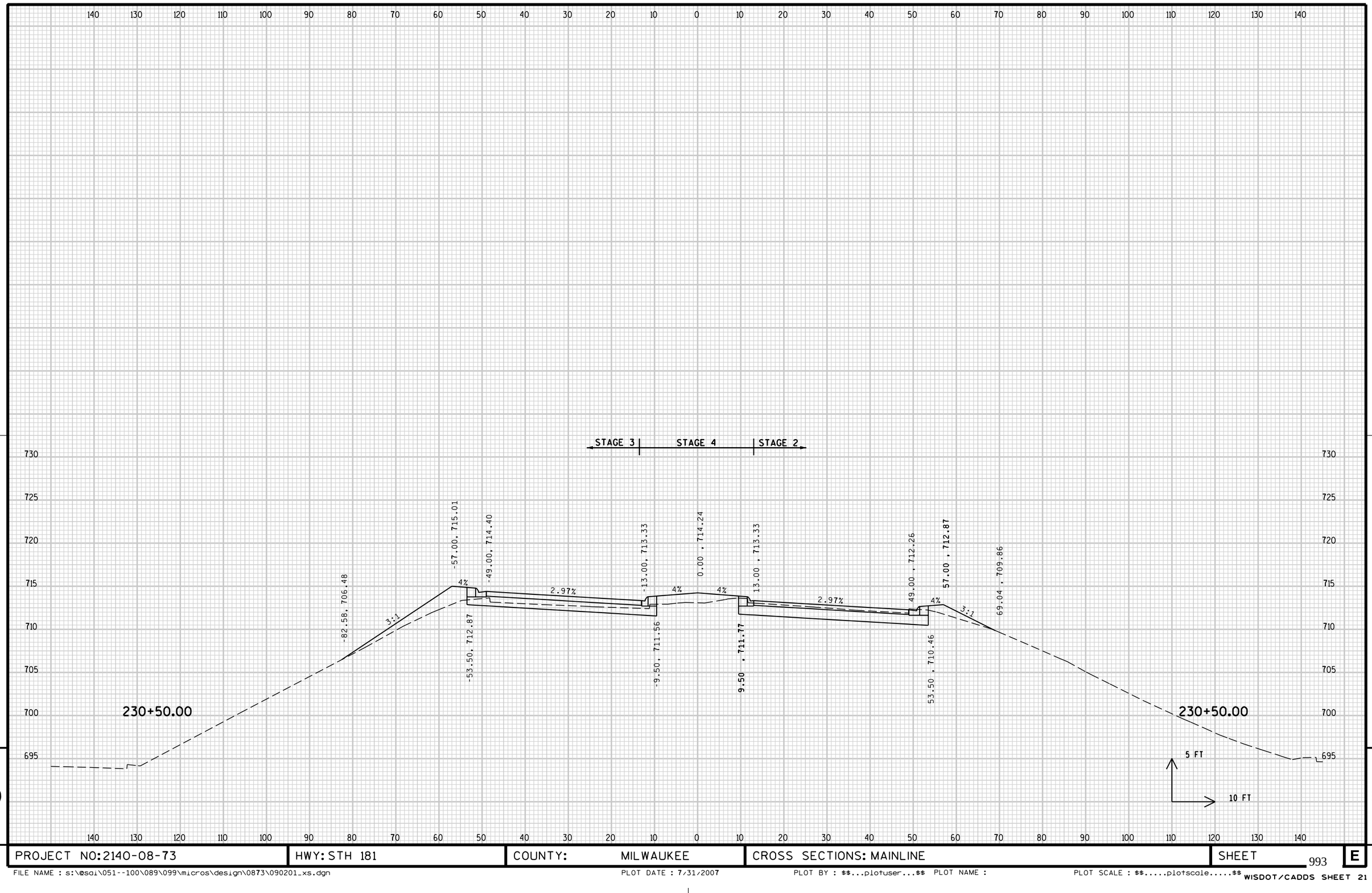
FILE NAME : s:\@sdi\051--100\089\099\micros\design\0873\090201_xs.dgn PLOT DATE : 7/31/2007 PLOT BY : $$...plotuser...$$ PLOT NAME : PLOT SCALE : $$.....plotscale.....$$ WISDOT/CADDS SHEET 21



PROJECT NO: 2140-08-73	HWY: STH 181	COUNTY: MILWAUKEE	CROSS SECTIONS: MAINLINE	SHEET 992	E

FILE NAME : s:\@sdi\051--100\089\099\micros\design\0873\090201_xs.dgn PLOT DATE : 7/31/2007 PLOT BY : $$...plotuser...$$ PLOT NAME : PLOT SCALE : $$.....plotscale.....$$

WISDOT/CADDS SHEET 21



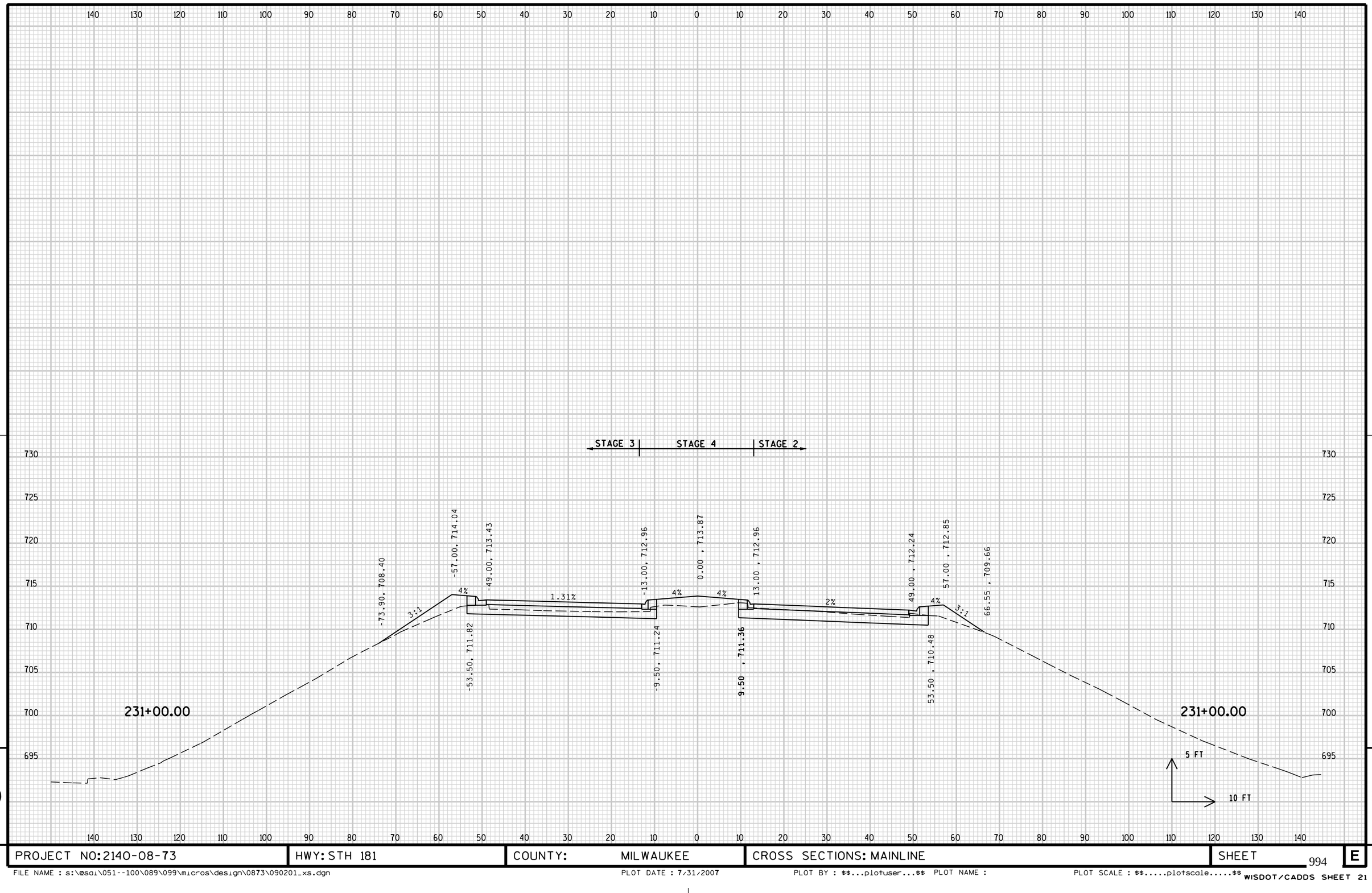
9

9

PROJECT NO: 2140-08-73	HWY: STH 181	COUNTY: MILWAUKEE	CROSS SECTIONS: MAINLINE	SHEET 993	E

FILE NAME : s:\@sdi\051--100\089\099\micros\design\0873\090201_xs.dgn PLOT DATE : 7/31/2007 PLOT BY : $$...plotuser...$$ PLOT NAME : PLOT SCALE : $$.....plotscale.....$$

WISDOT/CADDS SHEET 21

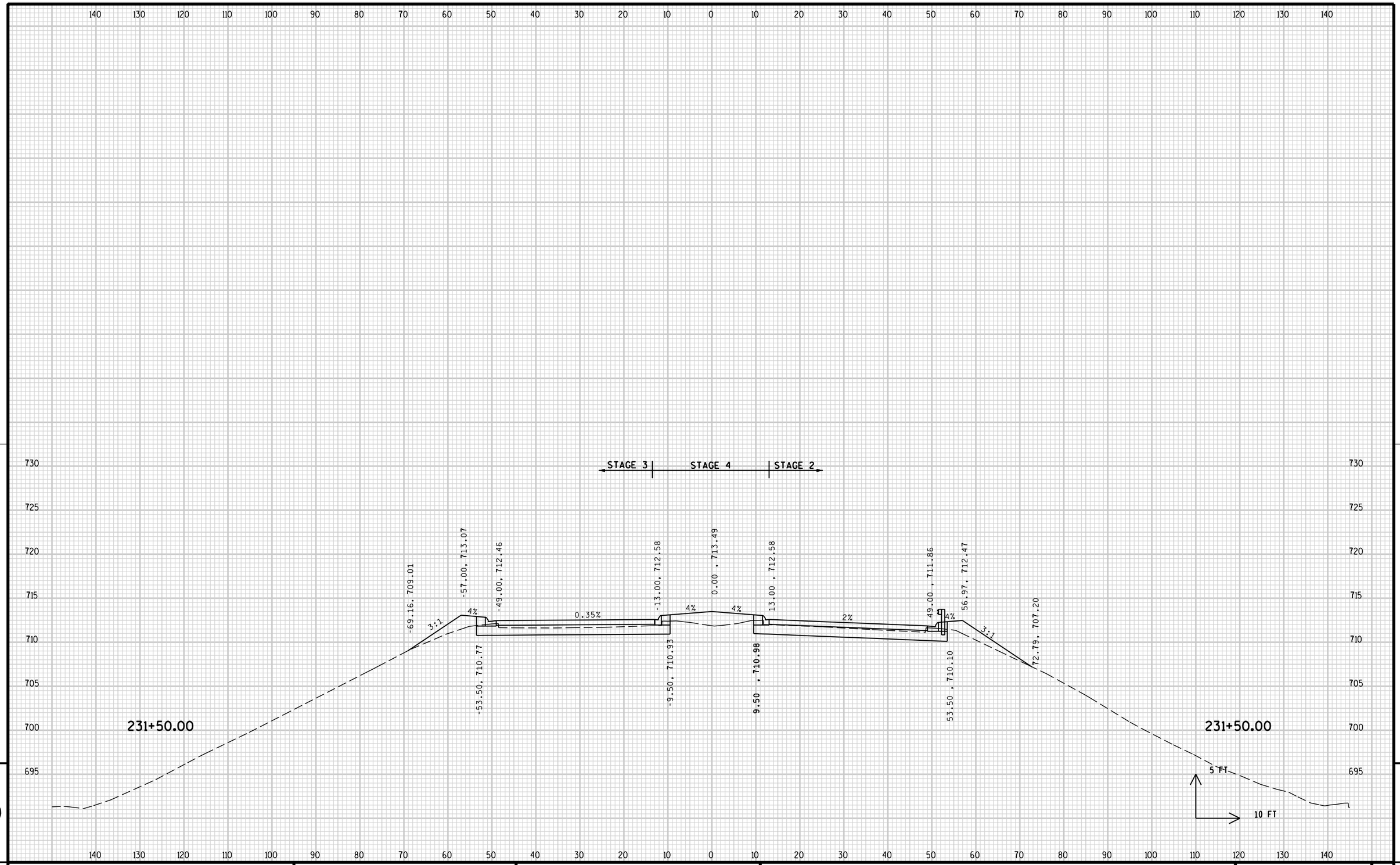


9

9

PROJECT NO:2140-08-73	HWY: STH 181	COUNTY: MILWAUKEE	CROSS SECTIONS: MAINLINE	SHEET 994	E

FILE NAME : s:\@sdi\051--100\089\099\micros\design\0873\090201_xs.dgn PLOT DATE : 7/31/2007 PLOT BY : $$...plotuser...$$ PLOT NAME : PLOT SCALE : $$.....plotscale.....$$



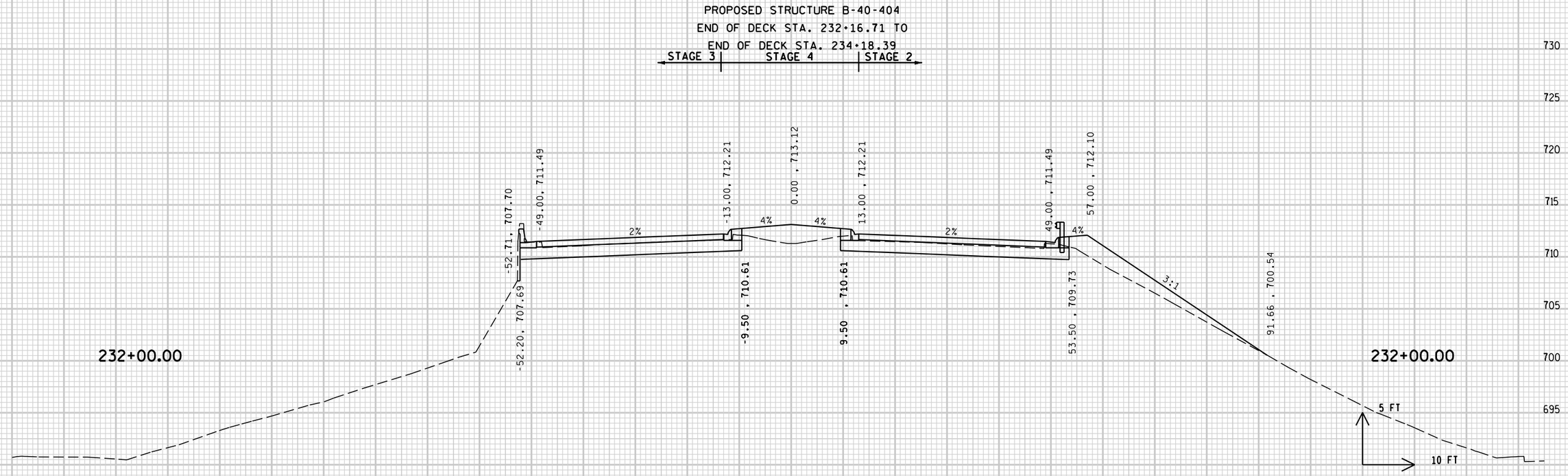
9

9

PROJECT NO: 2140-08-73	HWY: STH 181	COUNTY: MILWAUKEE	CROSS SECTIONS: MAINLINE	SHEET 995	E

PROPOSED STRUCTURE B-40-404
END OF DECK STA. 232+16.71 TO
END OF DECK STA. 234+18.39

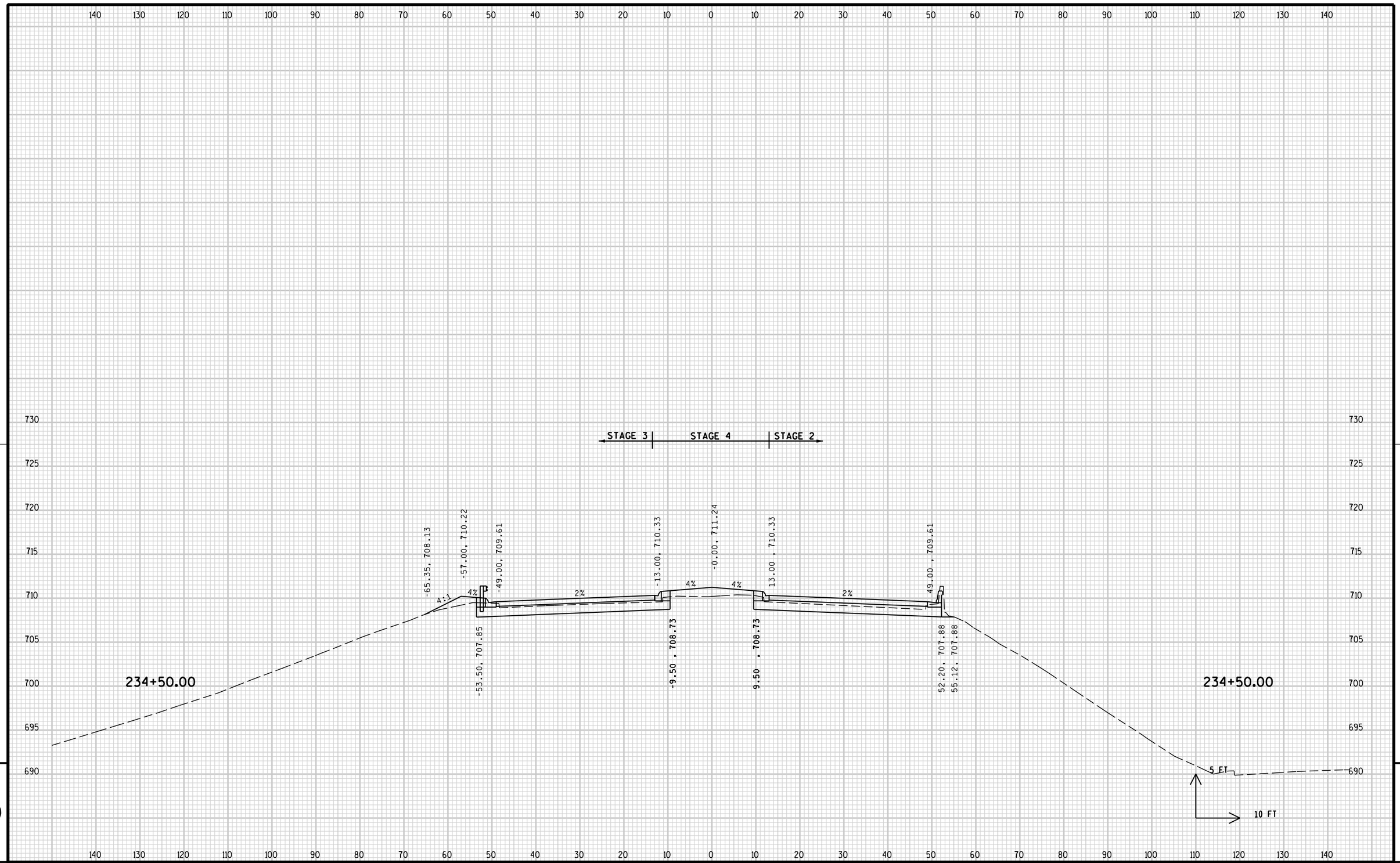
STAGE 3 | STAGE 4 | STAGE 2



9

9

PROJECT NO: 2140-08-73	HWY: STH 181	COUNTY: MILWAUKEE	CROSS SECTIONS: MAINLINE	SHEET 996	E



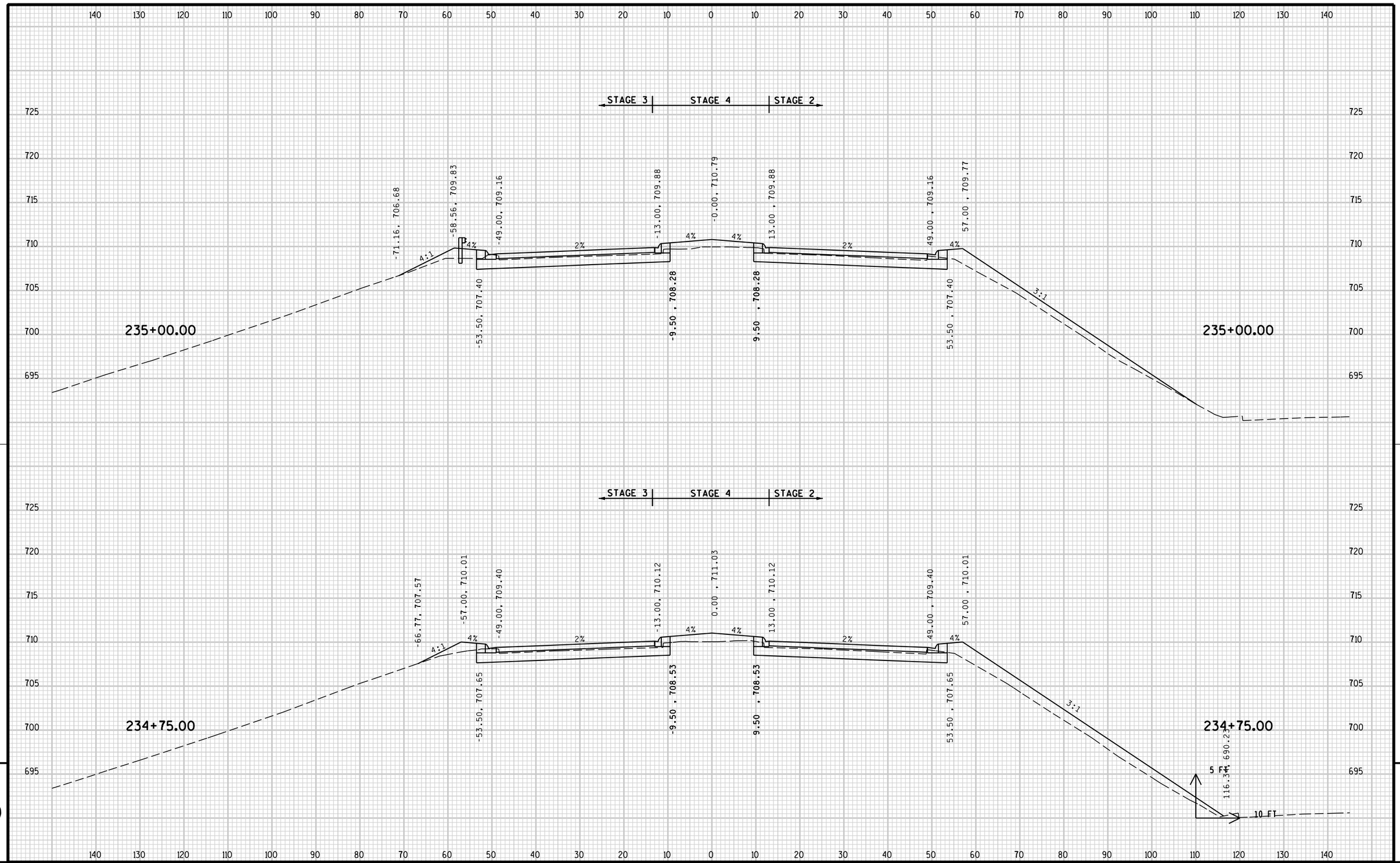
9

9

PROJECT NO: 2140-08-73	HWY: STH 181	COUNTY: MILWAUKEE	CROSS SECTIONS: MAINLINE	SHEET 997	E

FILE NAME : s:\@sdi\051--100\089\099\micros\design\0873\090201_xs.dgn PLOT DATE : 7/31/2007 PLOT BY : $$...plotuser...$$ PLOT NAME : PLOT SCALE : $$.....plotscale.....$$

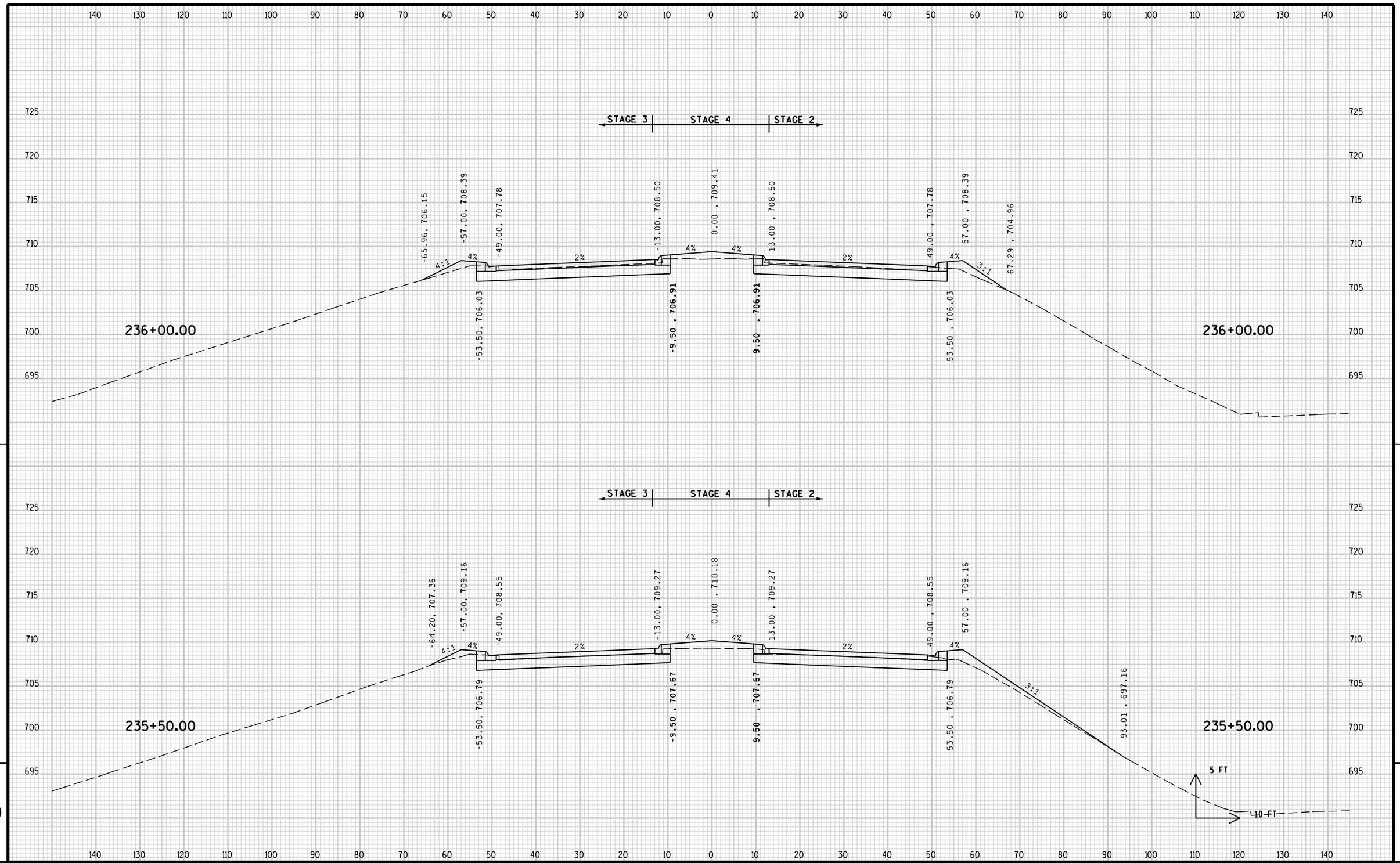
WISDOT/CADDS SHEET 21



PROJECT NO: 2140-08-73	HWY: STH 181	COUNTY: MILWAUKEE	CROSS SECTIONS: MAINLINE	SHEET 998	E

FILE NAME : s:\@sdi\051--100\089\099\micros\design\0873\090201_xs.dgn PLOT DATE : 7/31/2007 PLOT BY : $$...plotuser...$$ PLOT NAME : PLOT SCALE : $$.....plotscale.....$$

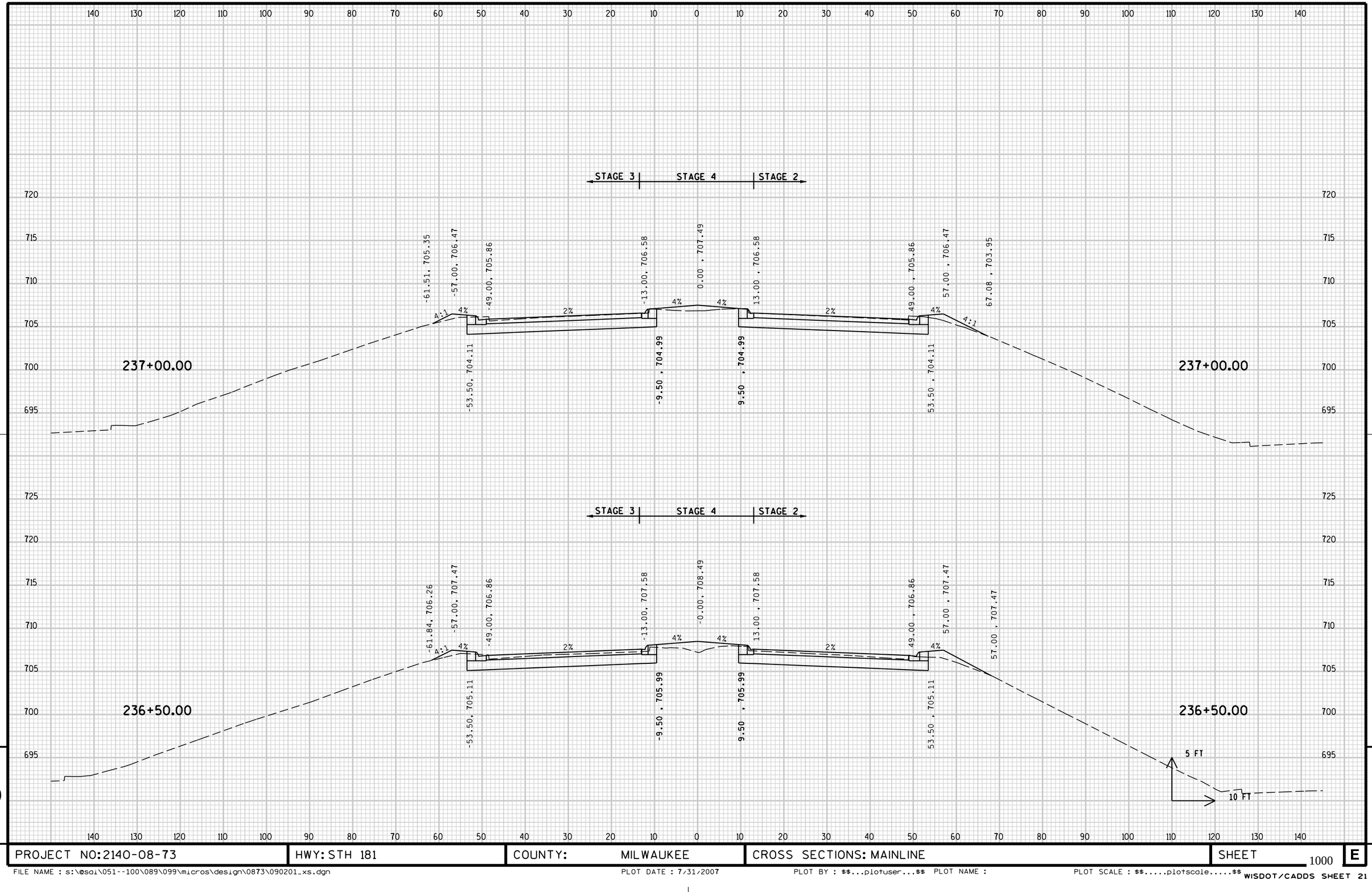
WISDOT/CADDS SHEET 21



PROJECT NO:2140-08-73	HWY: STH 181	COUNTY: MILWAUKEE	CROSS SECTIONS: MAINLINE	SHEET 999	E

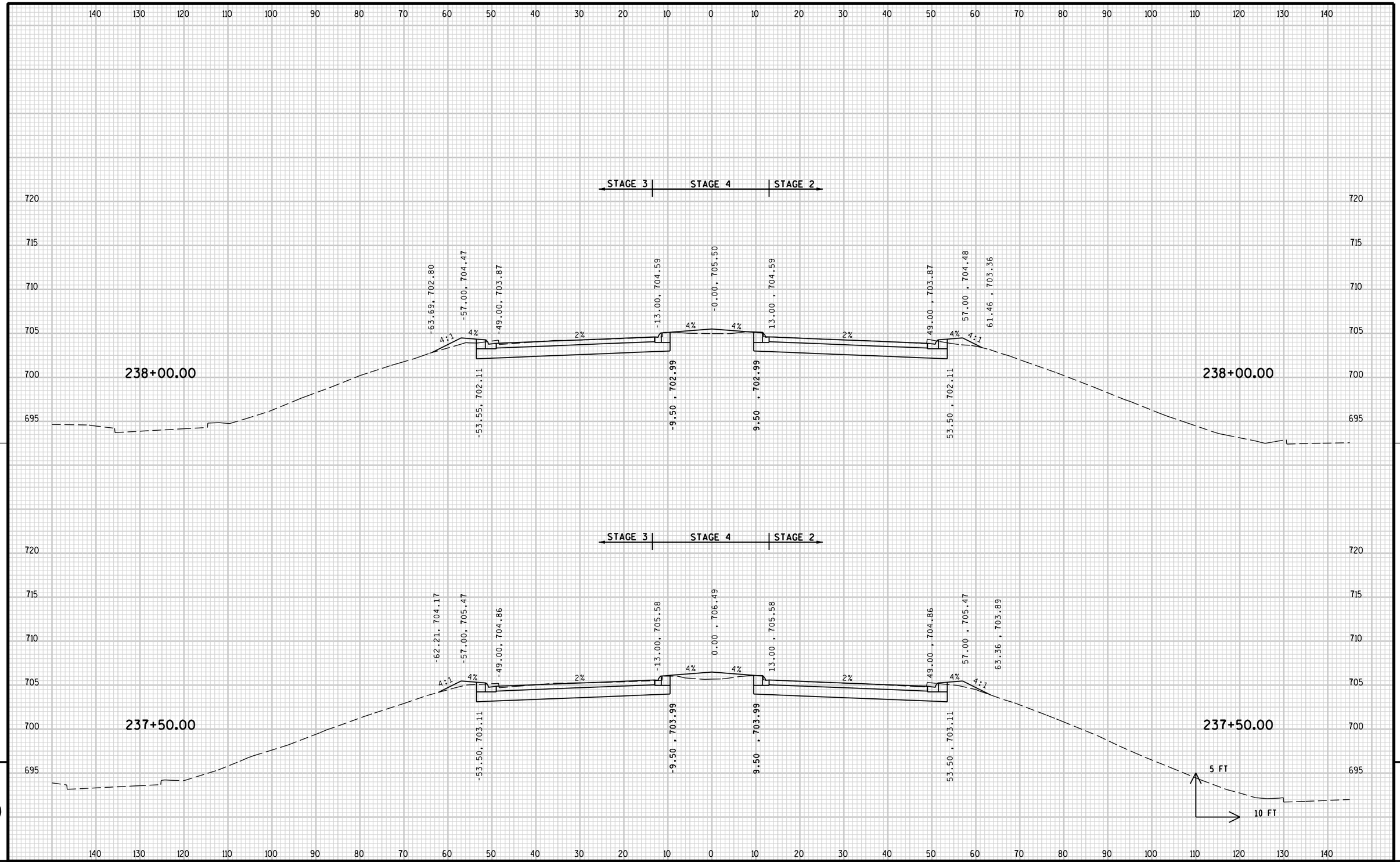
FILE NAME : s:\@sdi\051--100\089\099\micros\design\0873\090201_xs.dgn PLOT DATE : 7/31/2007 PLOT BY : $$...plotuser...$$ PLOT NAME : PLOT SCALE : $$.....plotscale.....$$

WISDOT/CADDS SHEET 21

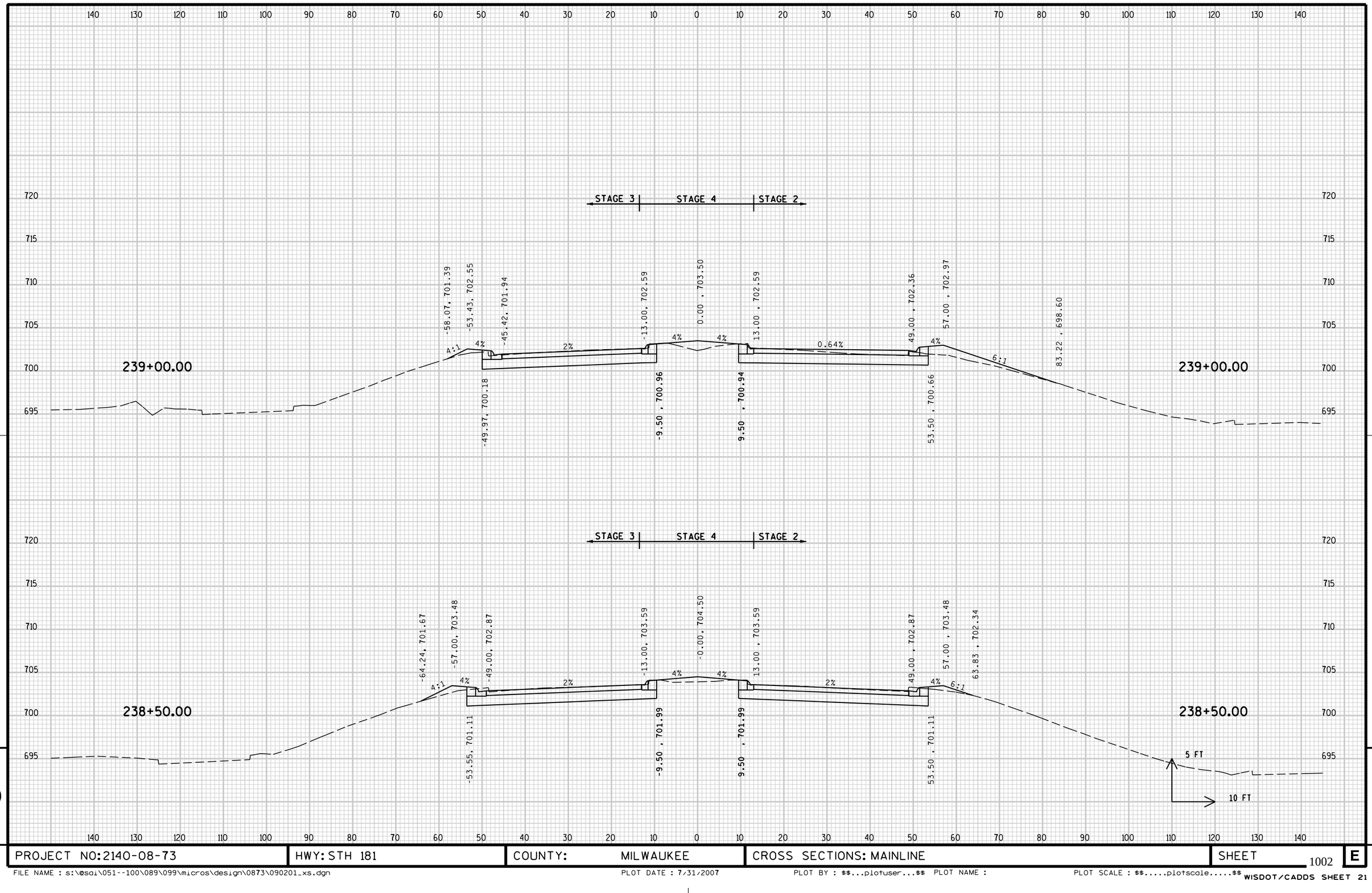


PROJECT NO: 2140-08-73	HWY: STH 181	COUNTY: MILWAUKEE	CROSS SECTIONS: MAINLINE	SHEET 1000	E

FILE NAME : s:\@sdi\051--100\089\099\micros\design\0873\090201_xs.dgn PLOT DATE : 7/31/2007 PLOT BY : $$...plotuser...$$ PLOT NAME : PLOT SCALE : $$.....plotscale.....$$ WISDOT/CADDS SHEET 21



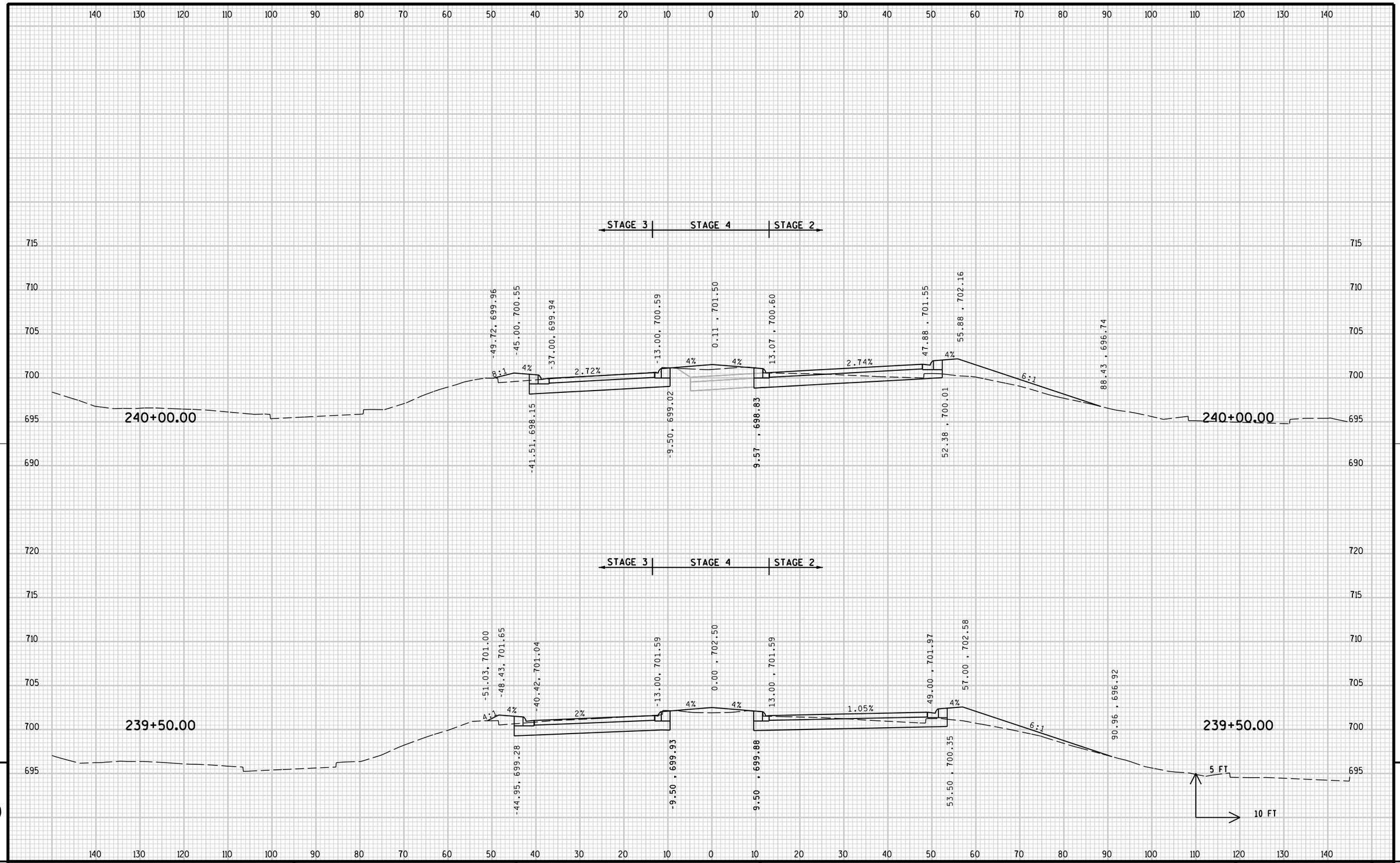
PROJECT NO: 2140-08-73	HWY: STH 181	COUNTY: MILWAUKEE	CROSS SECTIONS: MAINLINE	SHEET 1001	E



PROJECT NO: 2140-08-73	HWY: STH 181	COUNTY: MILWAUKEE	CROSS SECTIONS: MAINLINE	SHEET 1002	E

FILE NAME : s:\@sdi\051--100\089\099\micros\design\0873\090201_xs.dgn PLOT DATE : 7/31/2007 PLOT BY : $$...plotuser...$$ PLOT NAME : PLOT SCALE : $$.....plotscale.....$$

WISDOT/CADDS SHEET 21



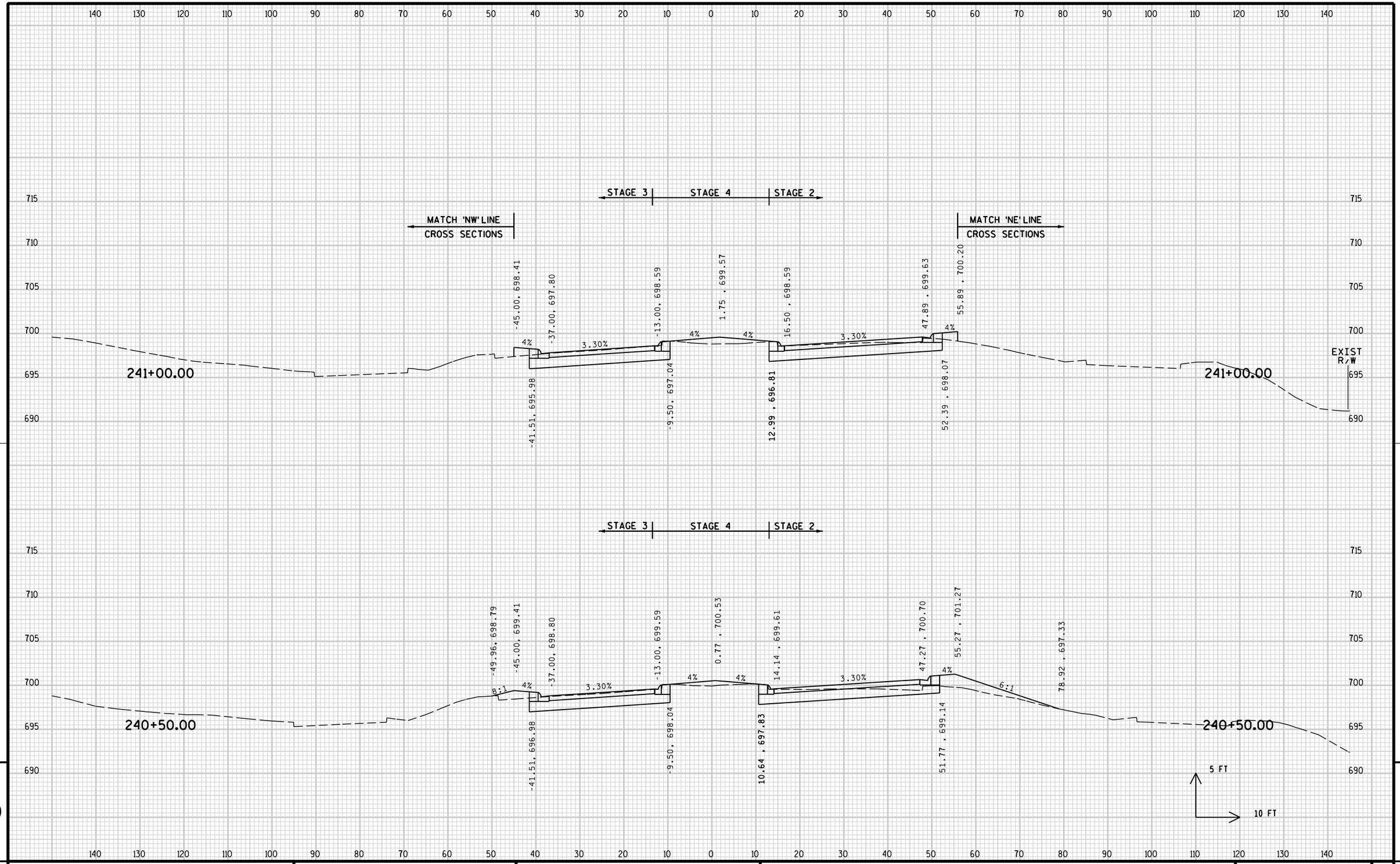
9

9

PROJECT NO: 2140-08-73	HWY: STH 181	COUNTY: MILWAUKEE	CROSS SECTIONS: MAINLINE	SHEET 1003	E

FILE NAME : s:\@sai\051--100\089\099\micros\design\0873\090201_xs.dgn PLOT DATE : 7/31/2007 PLOT BY : $$...plotuser...$$ PLOT NAME : PLOT SCALE : $$.....plotscale.....$$

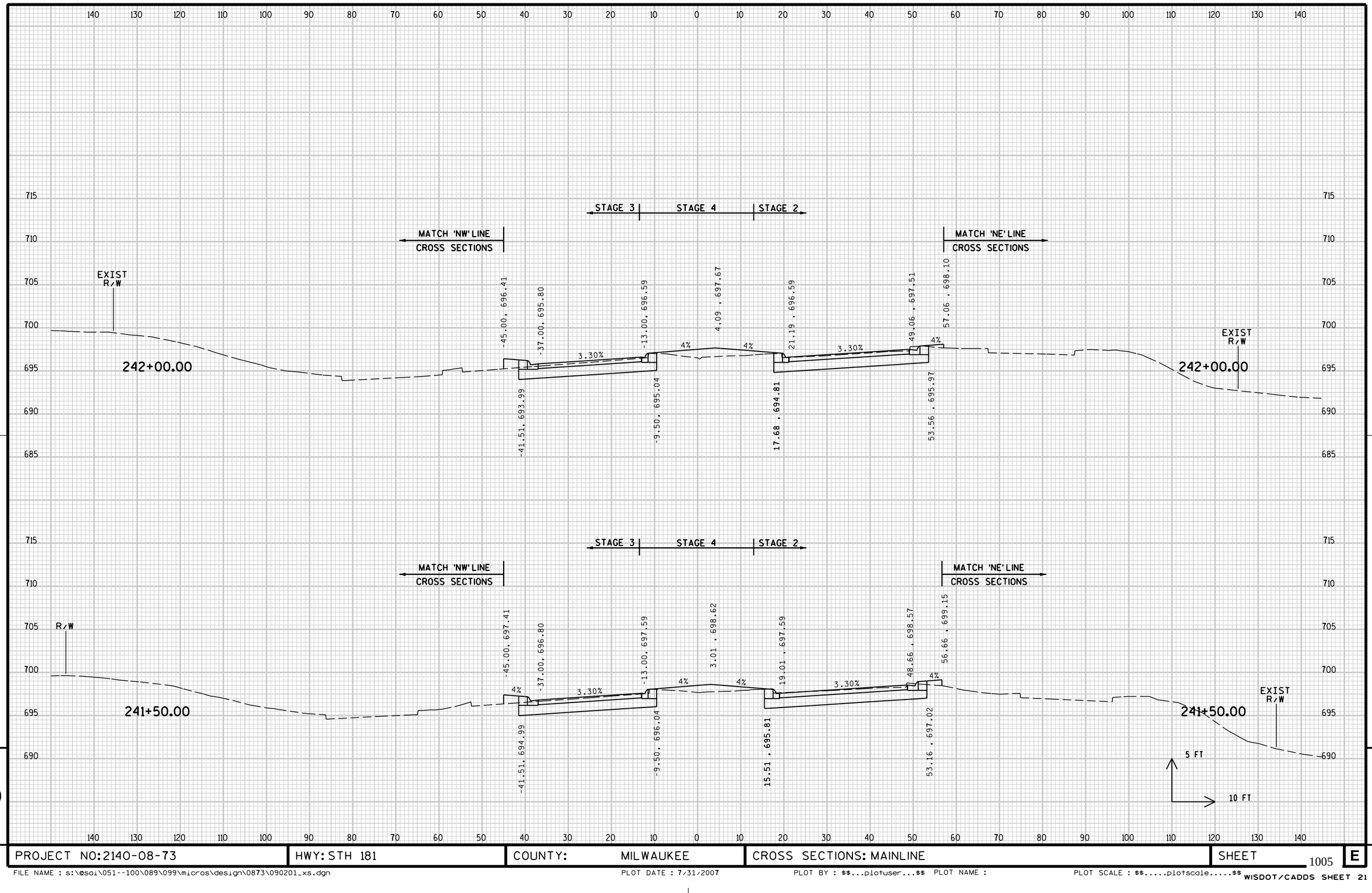
WISDOT/CADDS SHEET 21



PROJECT NO: 2140-08-73	HWY: STH 181	COUNTY: MILWAUKEE	CROSS SECTIONS: MAINLINE	SHEET 1004	E

FILE NAME : s:\@sdi\051--100\089\099\micros\design\0873\090201_xs.dgn PLOT DATE : 7/31/2007 PLOT BY : $$...plotuser...$$ PLOT NAME : PLOT SCALE : $$.....plotscale.....$$

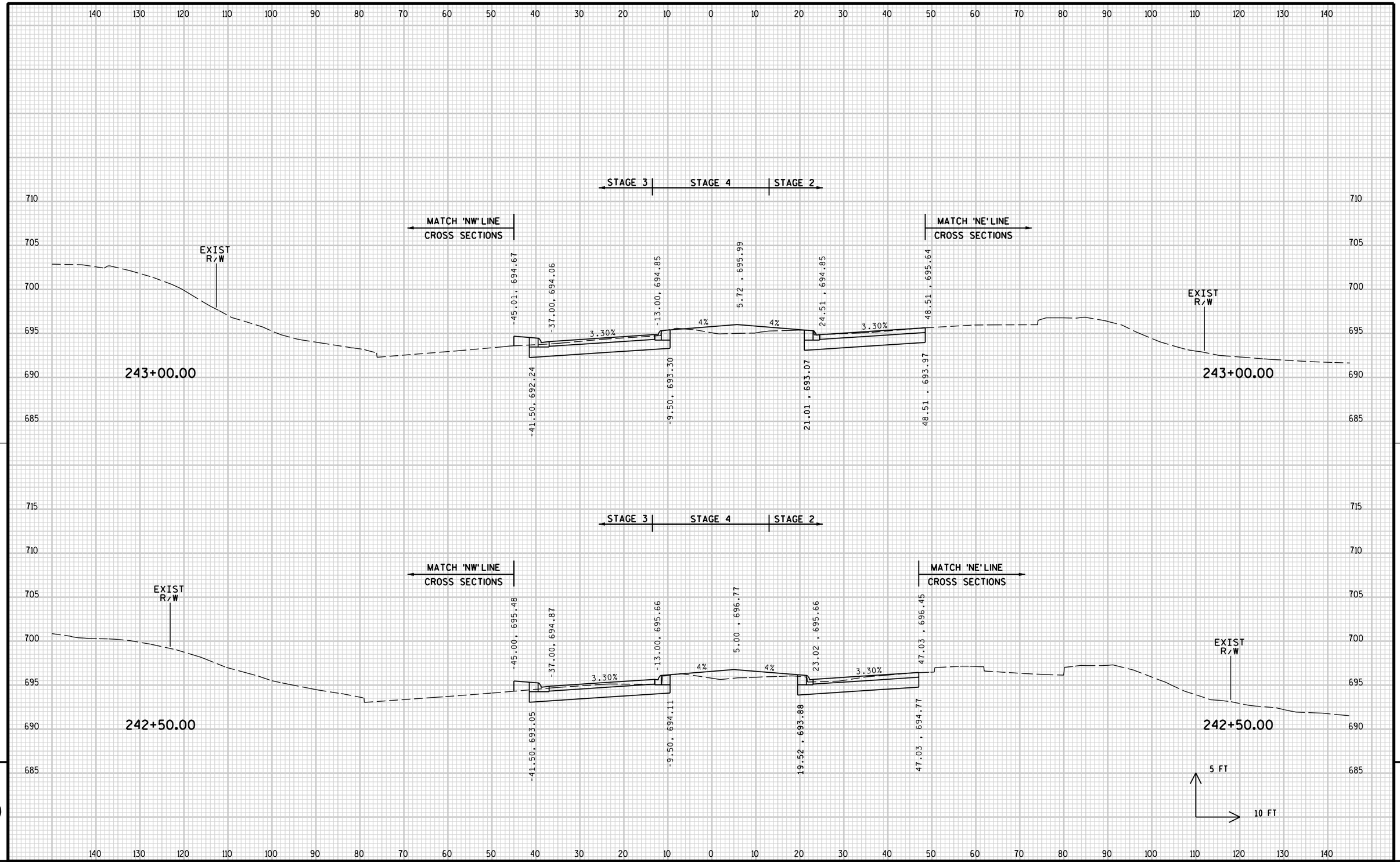
WISDOT/CADDS SHEET 21



PROJECT NO: 2140-08-73	HWY: STH 181	COUNTY: MILWAUKEE	CROSS SECTIONS: MAINLINE	SHEET 1005	E

FILE NAME : s:\@sdi\051--100\089\099\micros\design\0873\090201_xs.dgn PLOT DATE : 7/31/2007 PLOT BY : $$...plotuser...$$ PLOT NAME : PLOT SCALE : $$.....plotscale.....$$

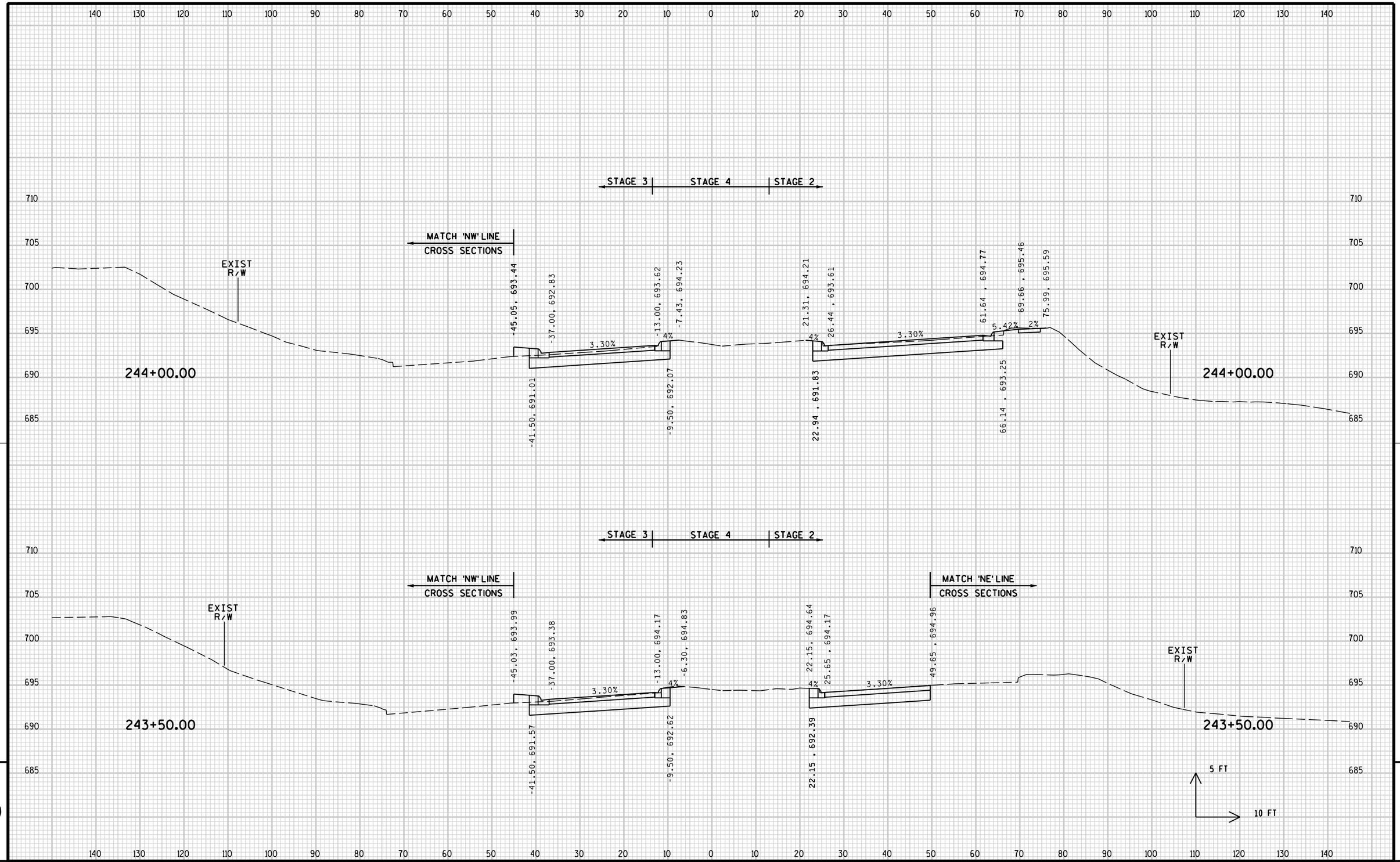
WISDOT/CADDS SHEET 21



9

9

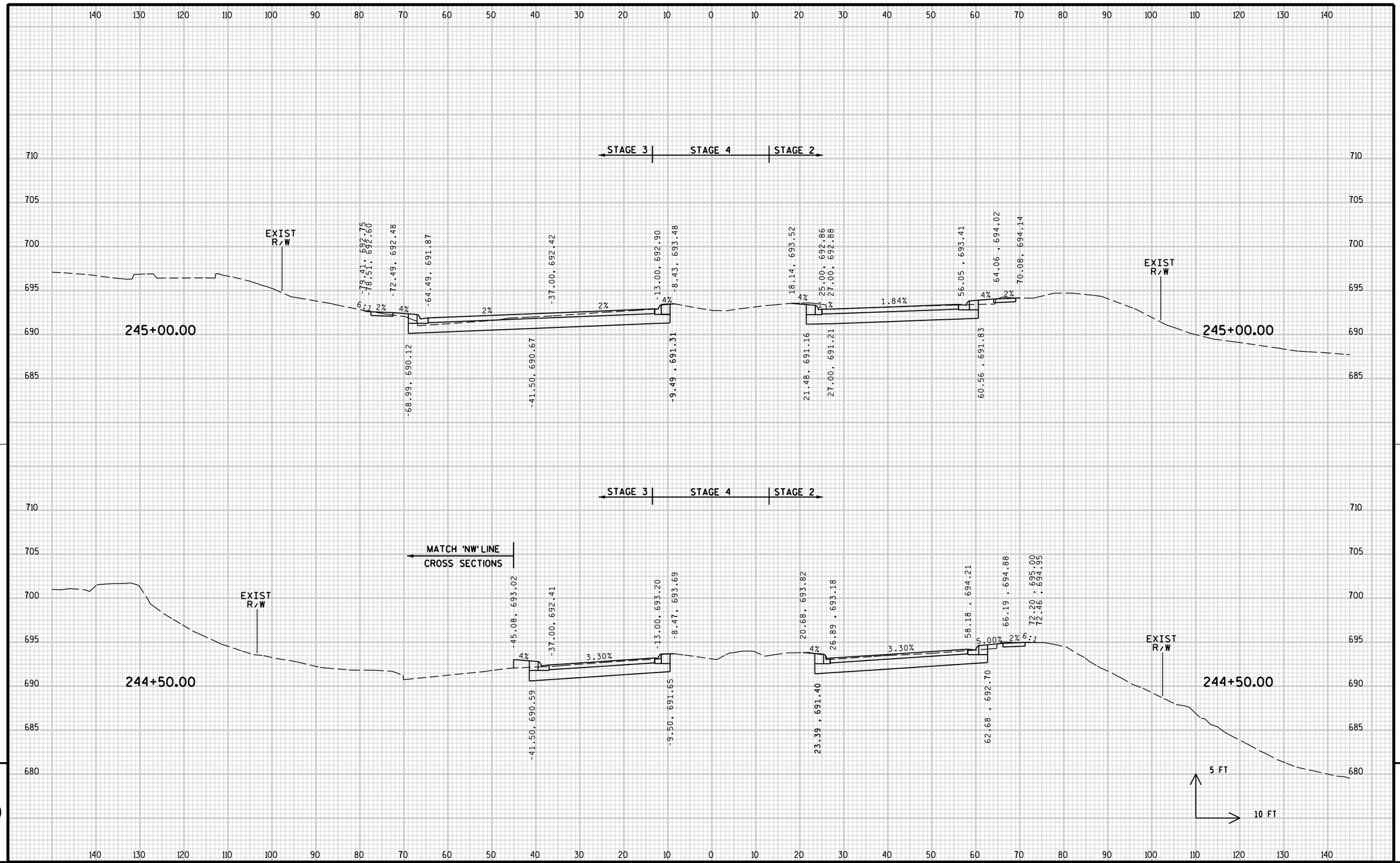
PROJECT NO: 2140-08-73	HWY: STH 181	COUNTY: MILWAUKEE	CROSS SECTIONS: MAINLINE	SHEET 1006	E



PROJECT NO: 2140-08-73	HWY: STH 181	COUNTY: MILWAUKEE	CROSS SECTIONS: MAINLINE	SHEET 1007	E

FILE NAME : s:\@sdi\051--100\089\099\micros\design\0873\090201_xs.dgn PLOT DATE : 7/31/2007 PLOT BY : $$...plotuser...$$ PLOT NAME : PLOT SCALE : $$.....plotscale.....$$

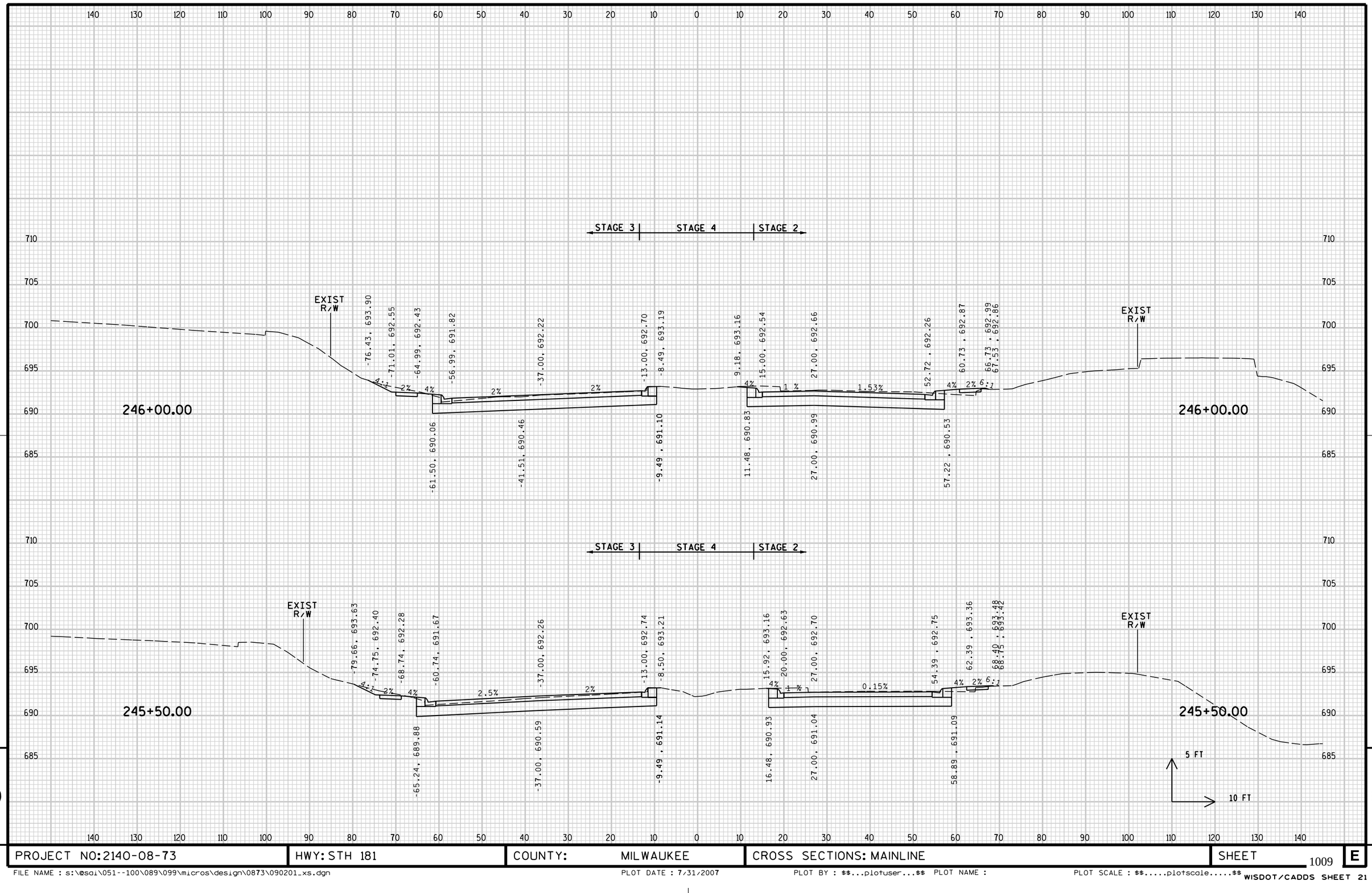
WISDOT/CADDS SHEET 21



PROJECT NO:2140-08-73	HWY: STH 181	COUNTY: MILWAUKEE	CROSS SECTIONS: MAINLINE	SHEET 1008	E

FILE NAME : s:\@sdi\051--100\089\099\micros\design\0873\090201_xs.dgn PLOT DATE : 7/31/2007 PLOT BY : $$...plotuser...$$ PLOT NAME : PLOT SCALE : $$.....plotscale.....$$

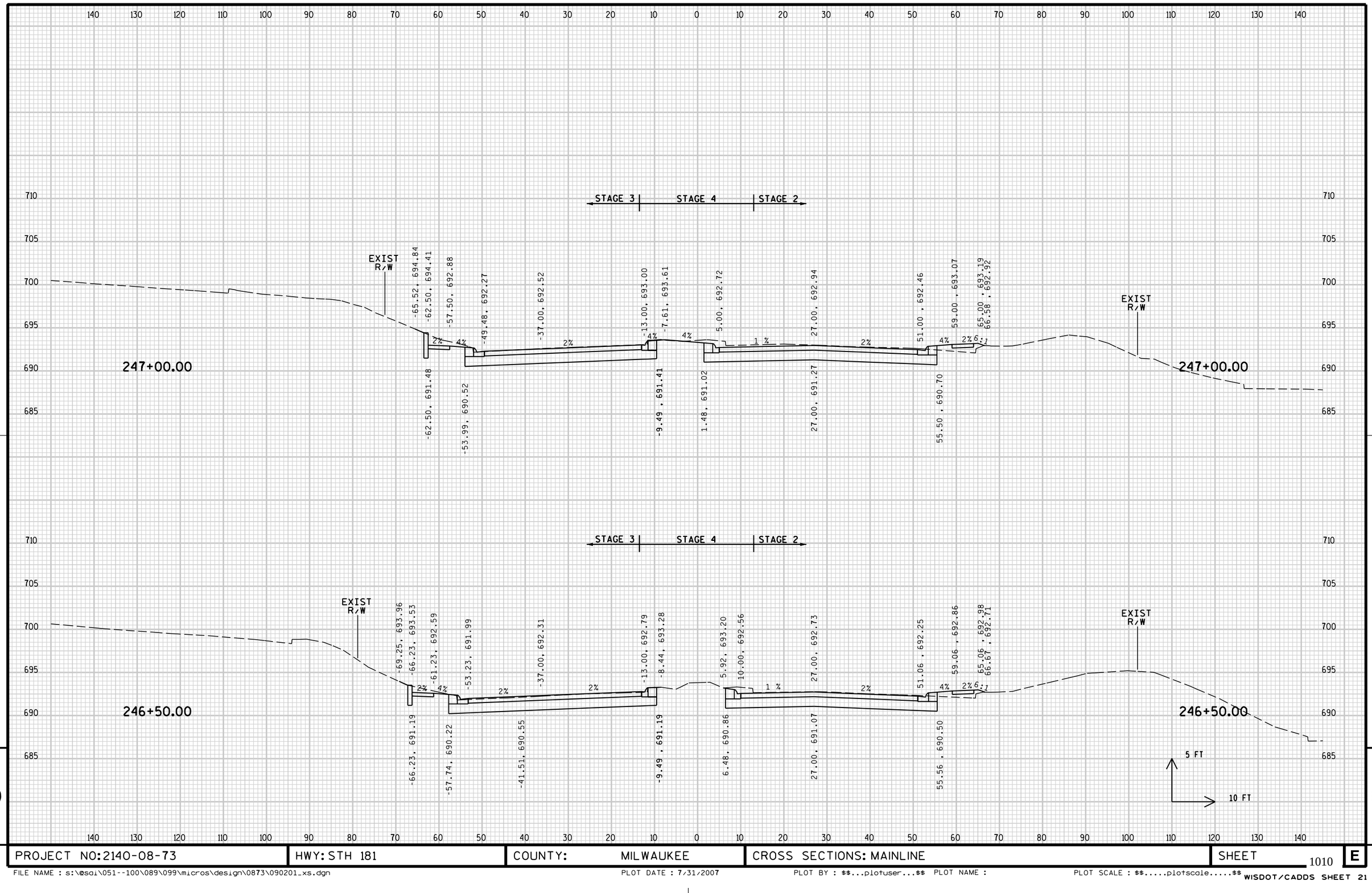
WISDOT/CADDS SHEET 21



9

9

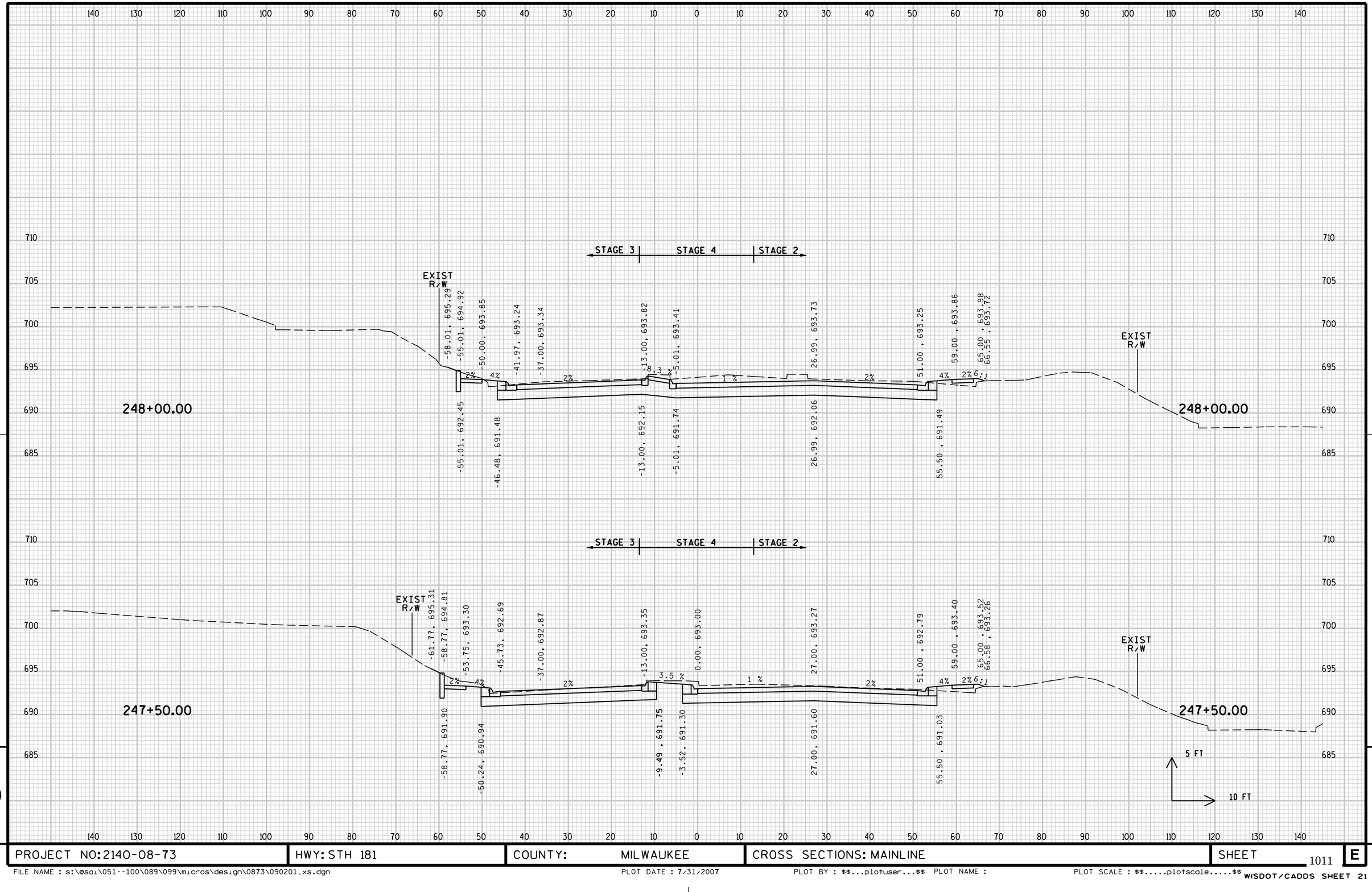
PROJECT NO: 2140-08-73	HWY: STH 181	COUNTY: MILWAUKEE	CROSS SECTIONS: MAINLINE	SHEET 1009	E



PROJECT NO: 2140-08-73	HWY: STH 181	COUNTY: MILWAUKEE	CROSS SECTIONS: MAINLINE	SHEET 1010	E

FILE NAME : s:\@sdi\051--100\089\099\micros\design\0873\090201_xs.dgn PLOT DATE : 7/31/2007 PLOT BY : $$...plotuser...$$ PLOT NAME : PLOT SCALE : $$.....plotscale.....$$

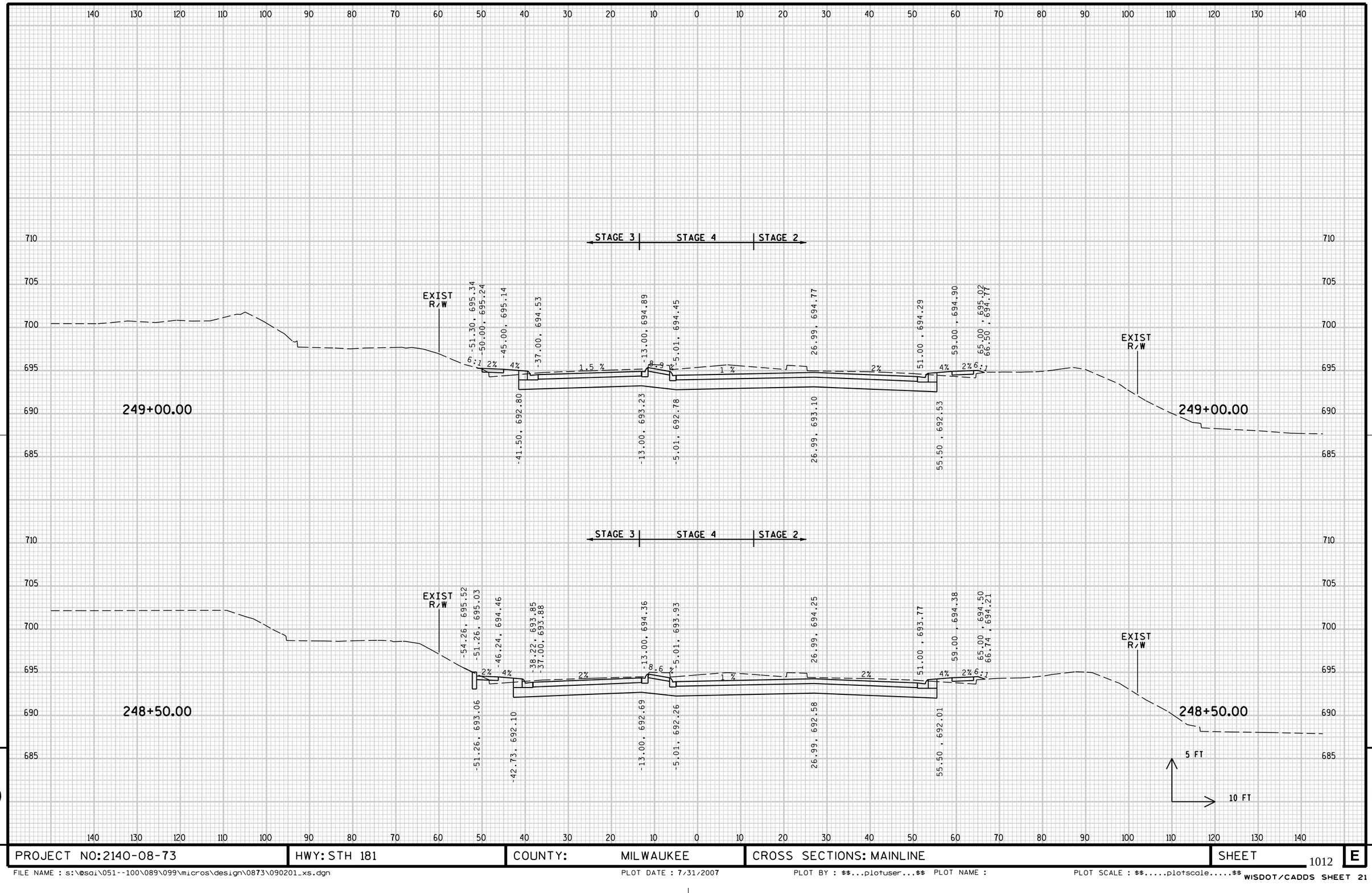
WISDOT/CADDS SHEET 21



PROJECT NO: 2140-08-73	HWY: STH 181	COUNTY: MILWAUKEE	CROSS SECTIONS: MAINLINE	SHEET	
				1011	E

FILE NAME : s:\@sai\051--100\089\099\micros\design\0873\090201_xs.dgn PLOT DATE : 7/31/2007 PLOT BY : $$...plotuser...$$ PLOT NAME : PLOT SCALE : $$.....plotscale.....$$

WISDOT/CADDS SHEET 21

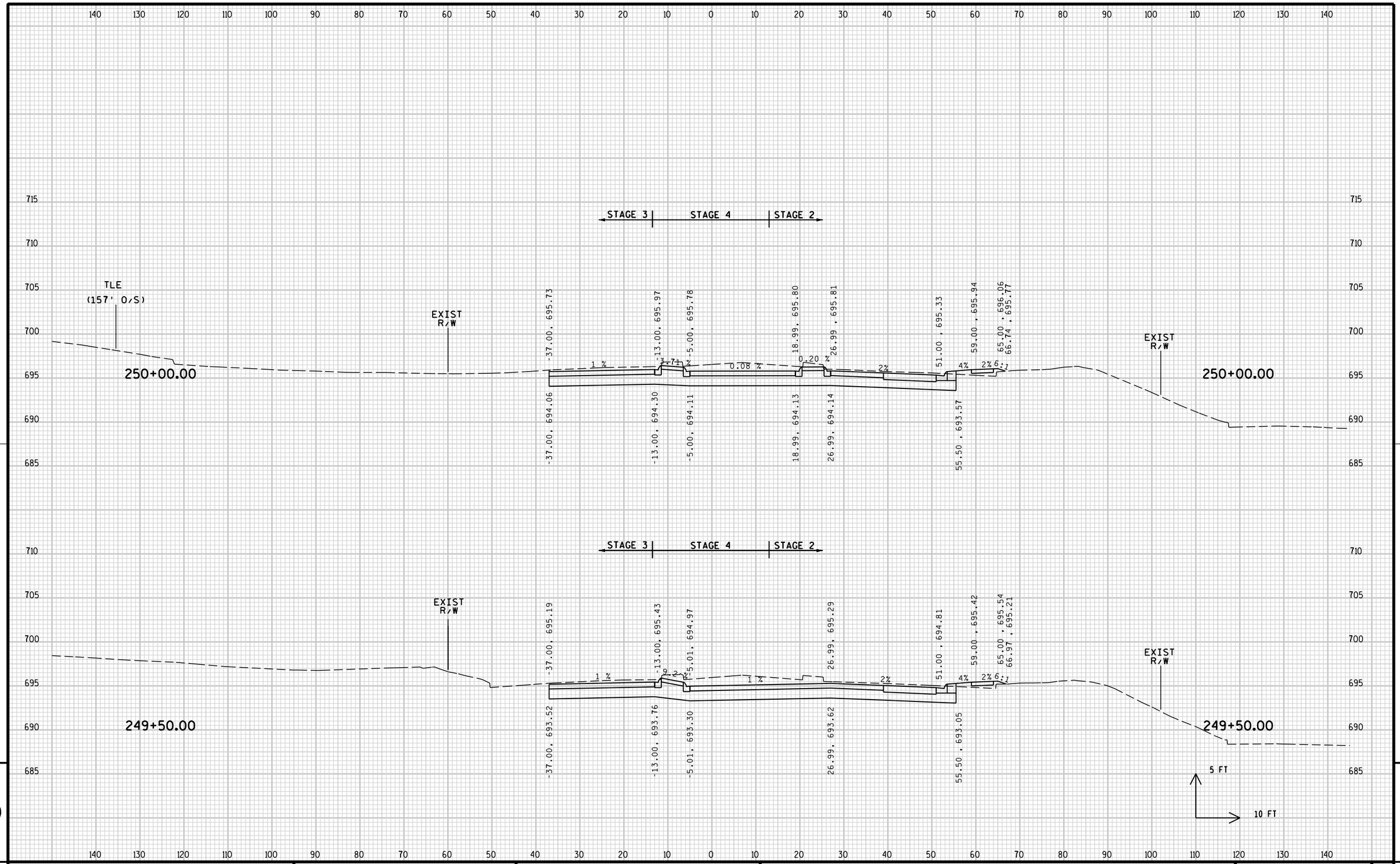


9

9

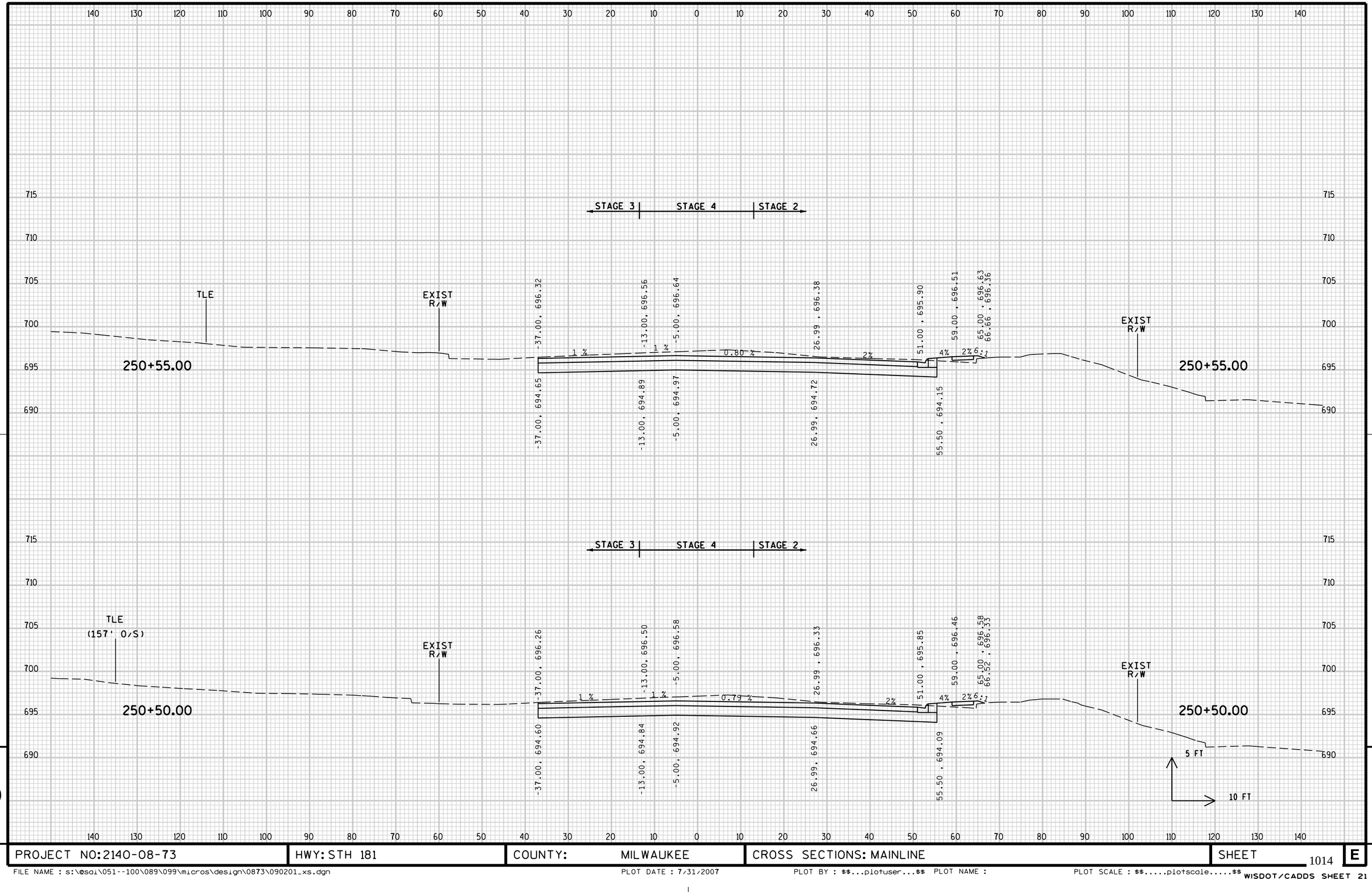
PROJECT NO: 2140-08-73	HWY: STH 181	COUNTY: MILWAUKEE	CROSS SECTIONS: MAINLINE	SHEET 1012	E

FILE NAME : s:\@sdi\051--100\089\099\micros\design\0873\090201_xs.dgn PLOT DATE : 7/31/2007 PLOT BY : $$...plotuser...$$ PLOT NAME : PLOT SCALE : $$.....plotscale.....$$ WISDOT/CADDS SHEET 21



PROJECT NO: 2140-08-73	HWY: STH 181	COUNTY: MILWAUKEE	CROSS SECTIONS: MAINLINE	SHEET 1013	E

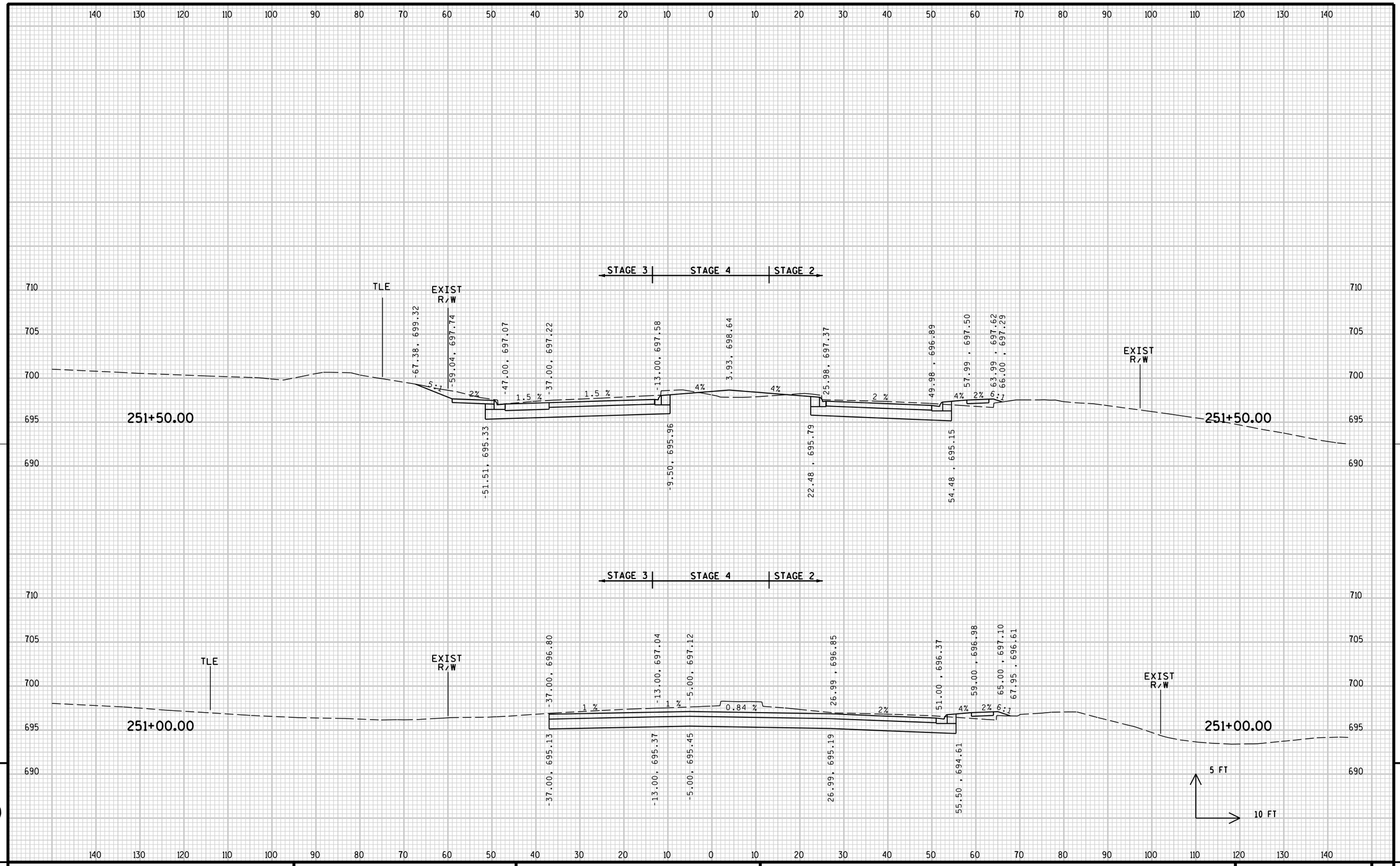
FILE NAME : s:\@sai\051--100\089\099\micros\design\0873\090201_xs.dgn PLOT DATE : 7/31/2007 PLOT BY : $$...plotuser...$$ PLOT NAME : PLOT SCALE : $$.....plotscale.....$$ WISDOT/CADDS SHEET 21



PROJECT NO: 2140-08-73	HWY: STH 181	COUNTY: MILWAUKEE	CROSS SECTIONS: MAINLINE	SHEET	E

FILE NAME : s:\@sdi\051--100\089\099\micros\design\0873\090201_xs.dgn PLOT DATE : 7/31/2007 PLOT BY : $$...plotuser...$$ PLOT NAME : PLOT SCALE : $$.....plotscale.....$$

WISDOT/CADDS SHEET 21

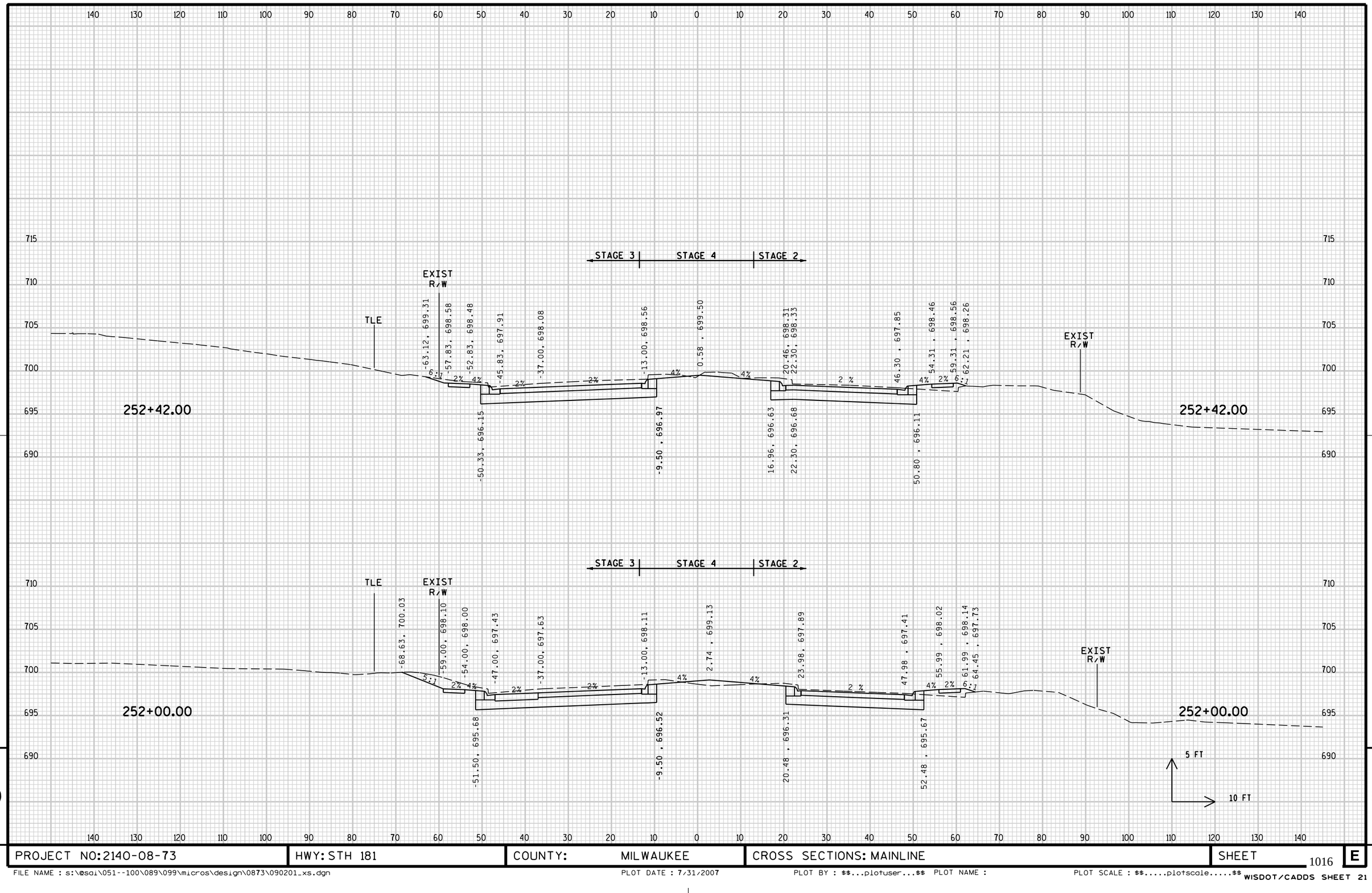


9

9

PROJECT NO: 2140-08-73	HWY: STH 181	COUNTY: MILWAUKEE	CROSS SECTIONS: MAINLINE	SHEET 1015	E

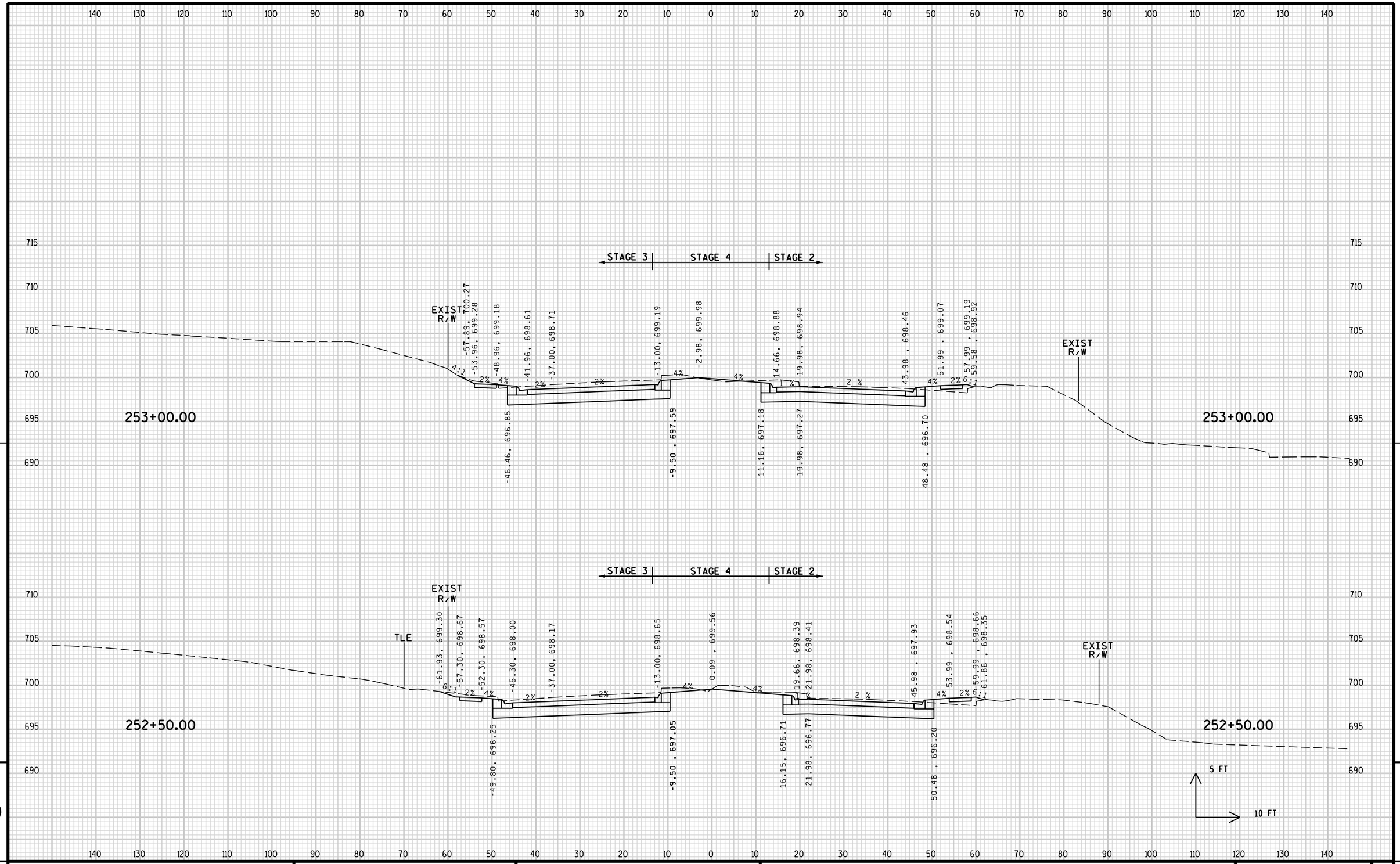
FILE NAME : s:\@sai\051--100\089\099\micros\design\0873\090201_xs.dgn PLOT DATE : 7/31/2007 PLOT BY : $$...plotuser...$$ PLOT NAME : PLOT SCALE : $$.....plotscale.....$$ WISDOT/CADDS SHEET 21



PROJECT NO: 2140-08-73	HWY: STH 181	COUNTY: MILWAUKEE	CROSS SECTIONS: MAINLINE	SHEET 1016	E

FILE NAME : s:\@sdi\051--100\089\099\micros\design\0873\090201_xs.dgn PLOT DATE : 7/31/2007 PLOT BY : $$...plotuser...$$ PLOT NAME : PLOT SCALE : $$.....plotscale.....$$

WISDOT/CADDS SHEET 21



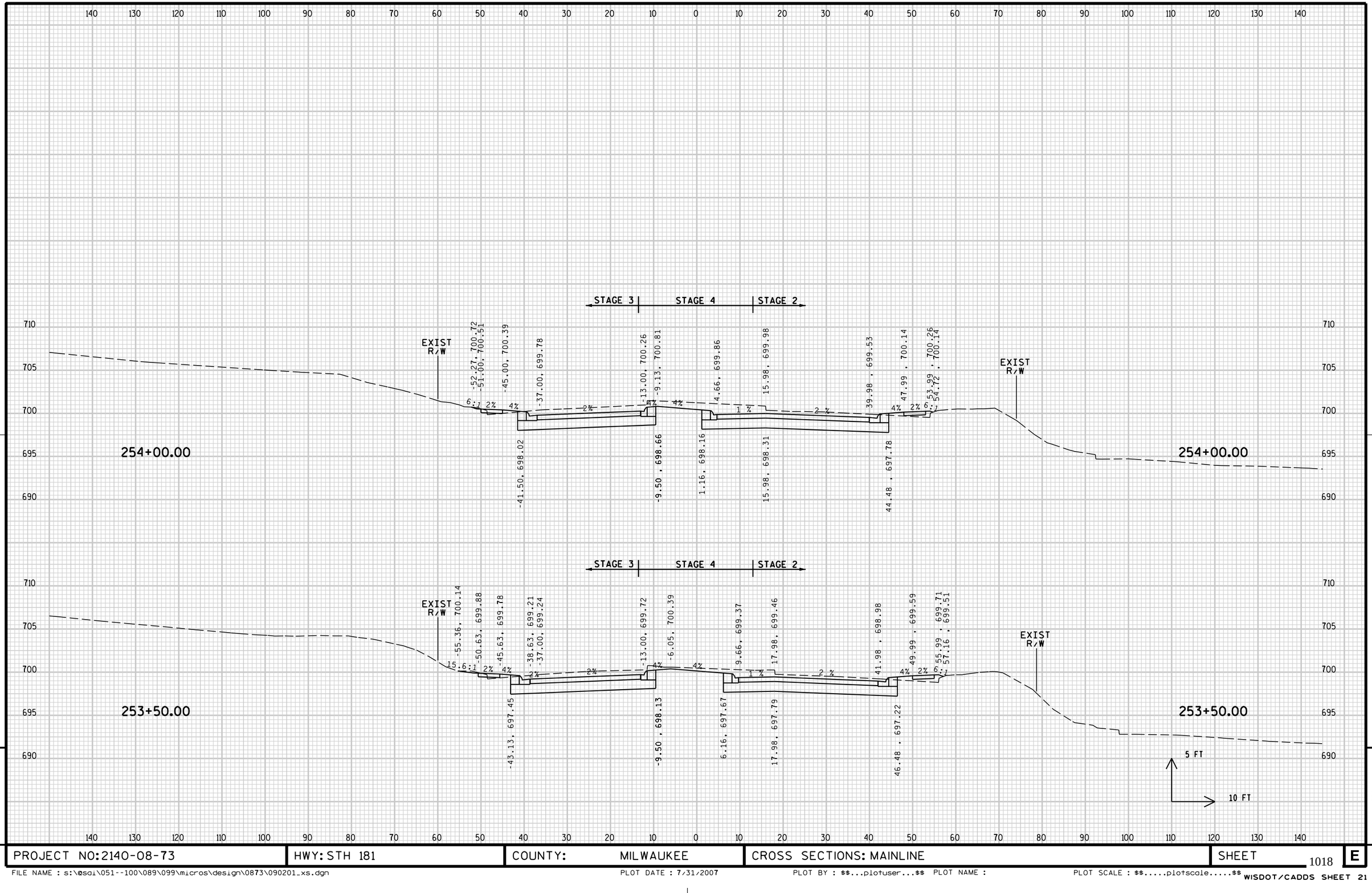
9

9

PROJECT NO: 2140-08-73	HWY: STH 181	COUNTY: MILWAUKEE	CROSS SECTIONS: MAINLINE	SHEET 1017	E

FILE NAME : s:\@sai\051--100\089\099\micros\design\0873\090201_xs.dgn PLOT DATE : 7/31/2007 PLOT BY : $$...plotuser...$$ PLOT NAME : PLOT SCALE : $$.....plotscale.....$$

WISDOT/CADDS SHEET 21

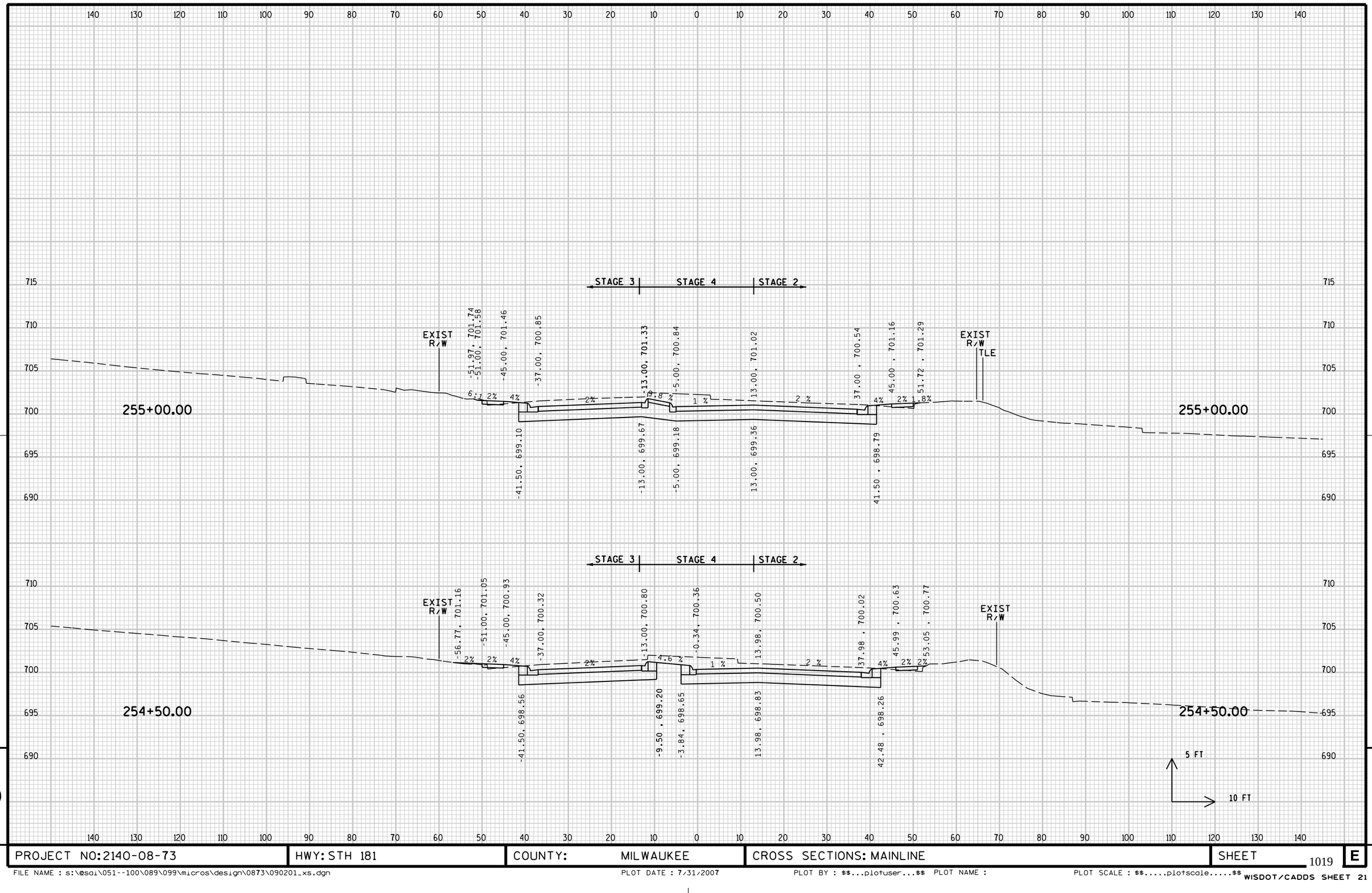


9

9

PROJECT NO: 2140-08-73	HWY: STH 181	COUNTY: MILWAUKEE	CROSS SECTIONS: MAINLINE	SHEET 1018	E

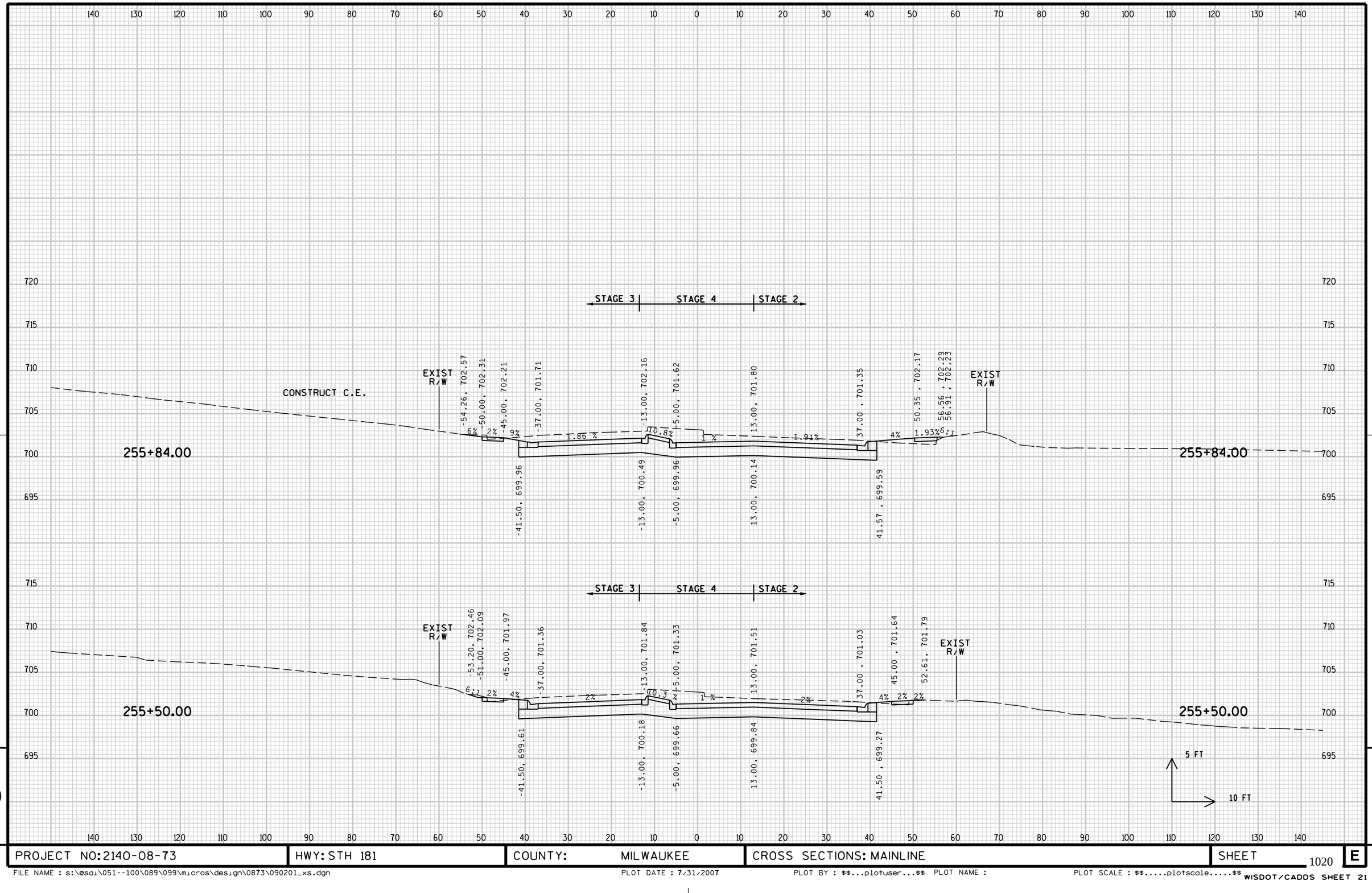
FILE NAME : s:\@sai\051--100\089\099\micros\design\0873\090201_xs.dgn PLOT DATE : 7/31/2007 PLOT BY : $$...plotuser...$$ PLOT NAME : PLOT SCALE : $$.....plotscale.....$$ WISDOT/CADDS SHEET 21



9

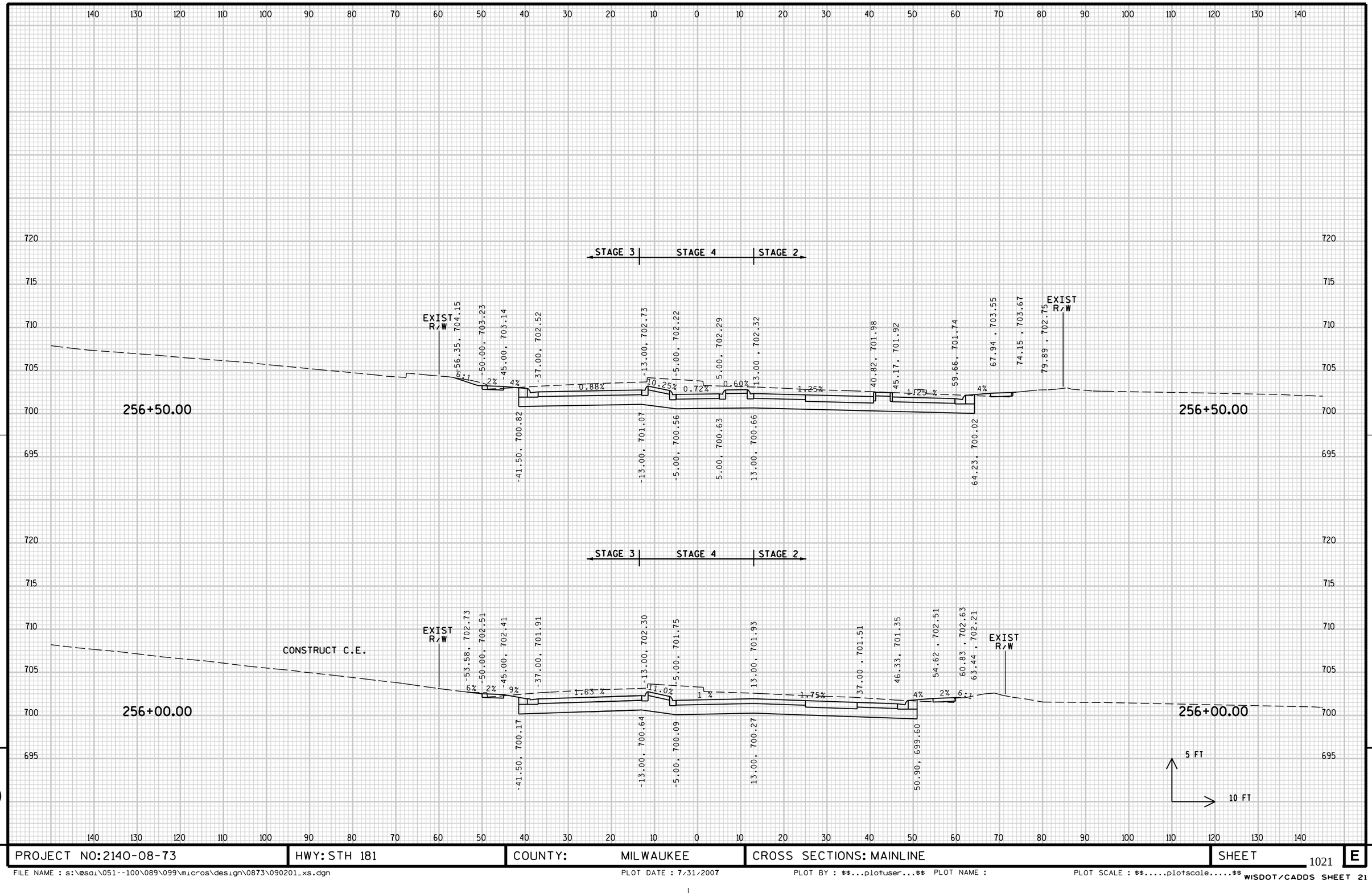
9

PROJECT NO: 2140-08-73	HWY: STH 181	COUNTY: MILWAUKEE	CROSS SECTIONS: MAINLINE	SHEET 1019	E



PROJECT NO: 2140-08-73	HWY: STH 181	COUNTY: MILWAUKEE	CROSS SECTIONS: MAINLINE	SHEET	E

FILE NAME : s:\@sdi\051--100\089\099\micros\design\0873\090201_xs.dgn PLOT DATE : 7/31/2007 PLOT BY : $$...plotuser...$$ PLOT NAME : PLOT SCALE : $$.....plotscale.....$$ WISDOT/CADDS SHEET 21

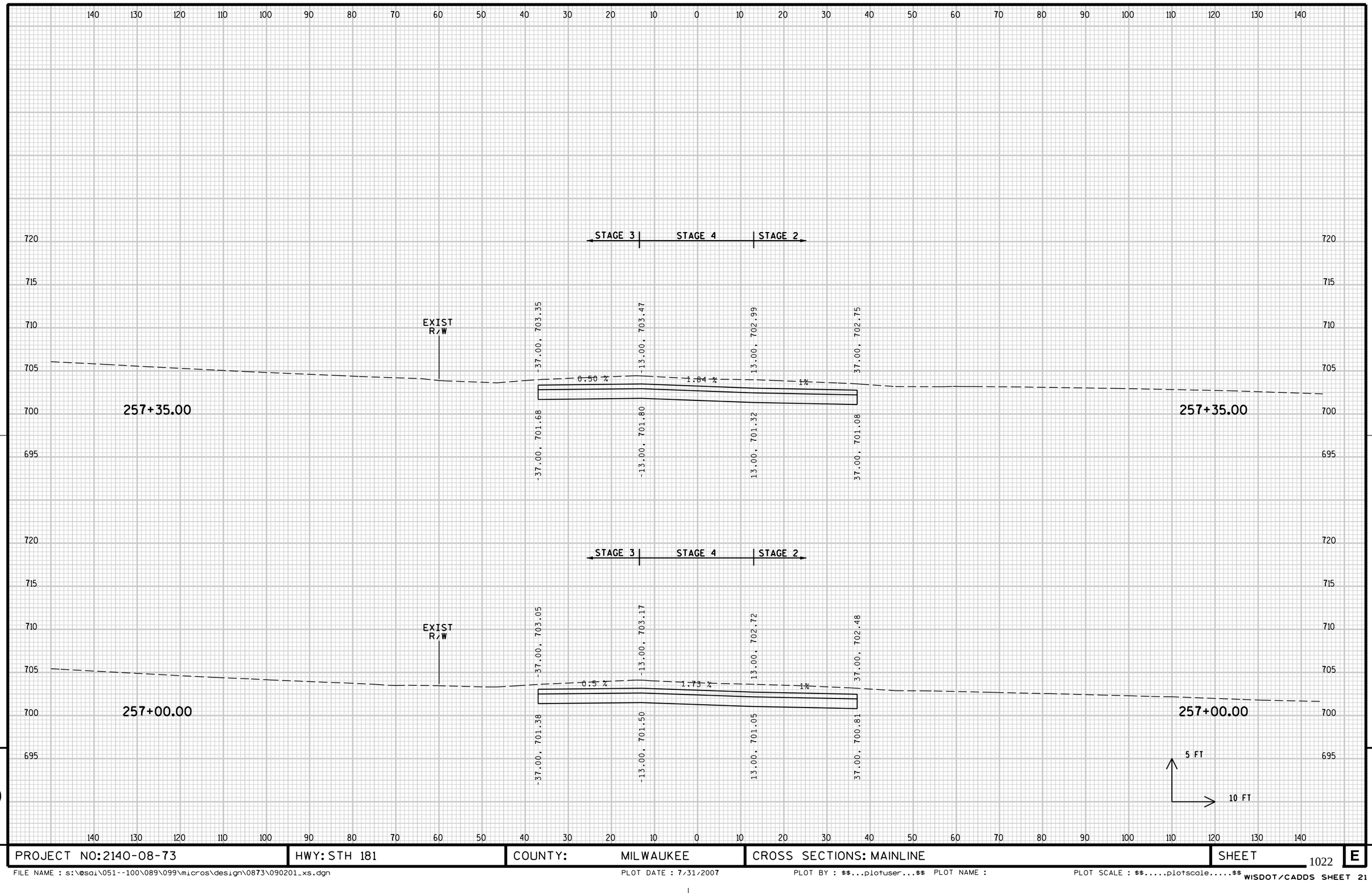


9

9

PROJECT NO: 2140-08-73	HWY: STH 181	COUNTY: MILWAUKEE	CROSS SECTIONS: MAINLINE	SHEET 1021	E

FILE NAME : s:\@sai\051--100\089\099\micros\design\0873\090201_xs.dgn PLOT DATE : 7/31/2007 PLOT BY : $$...plotuser...$$ PLOT NAME : PLOT SCALE : $$.....plotscale.....$$ WISDOT/CADDS SHEET 21



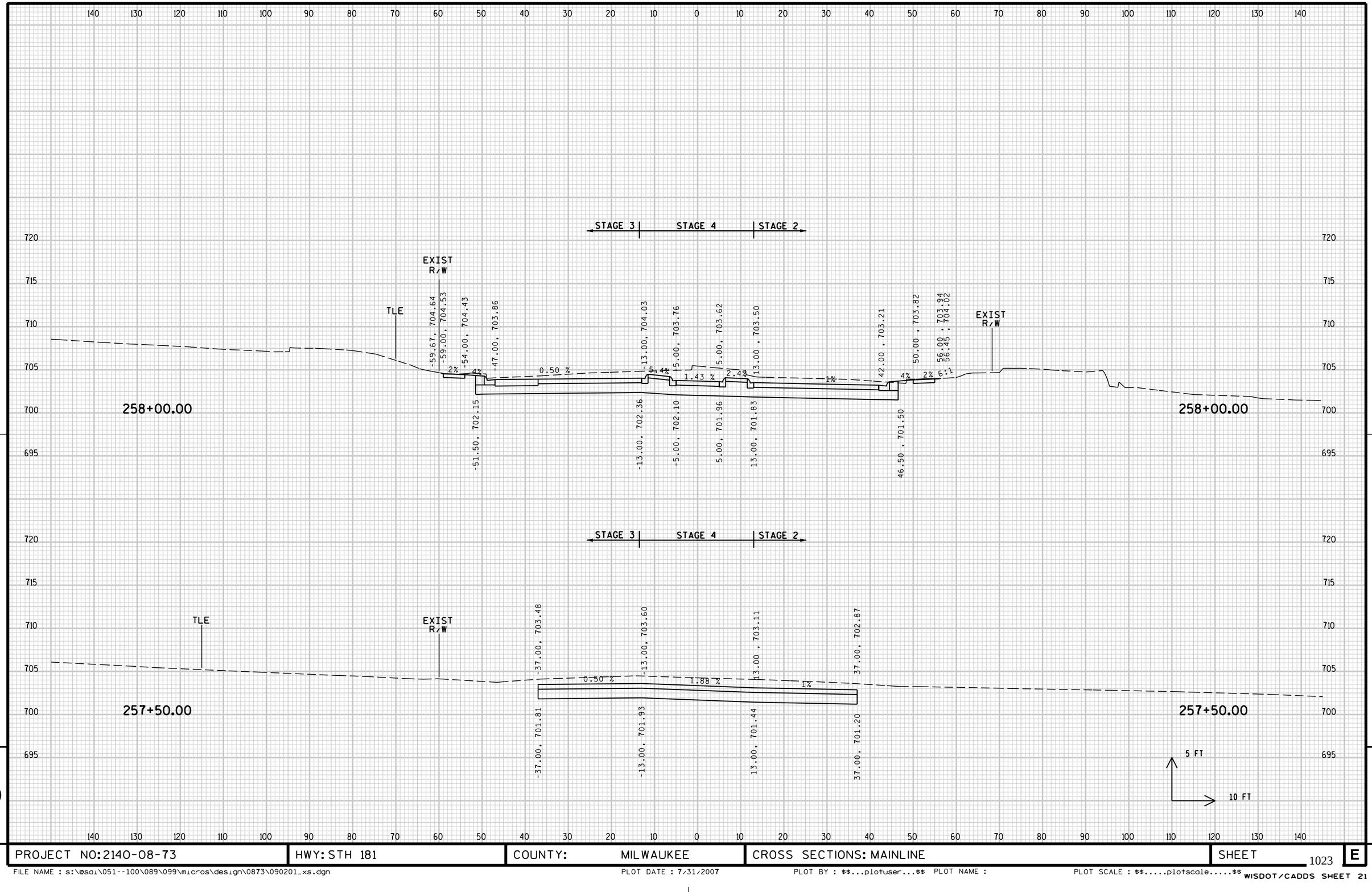
9

9

PROJECT NO: 2140-08-73	HWY: STH 181	COUNTY: MILWAUKEE	CROSS SECTIONS: MAINLINE	SHEET 1022	E

FILE NAME : s:\@sdi\051--100\089\099\micros\design\0873\090201_xs.dgn PLOT DATE : 7/31/2007 PLOT BY : $$...plotuser...$$ PLOT NAME : PLOT SCALE : $$.....plotscale.....$$

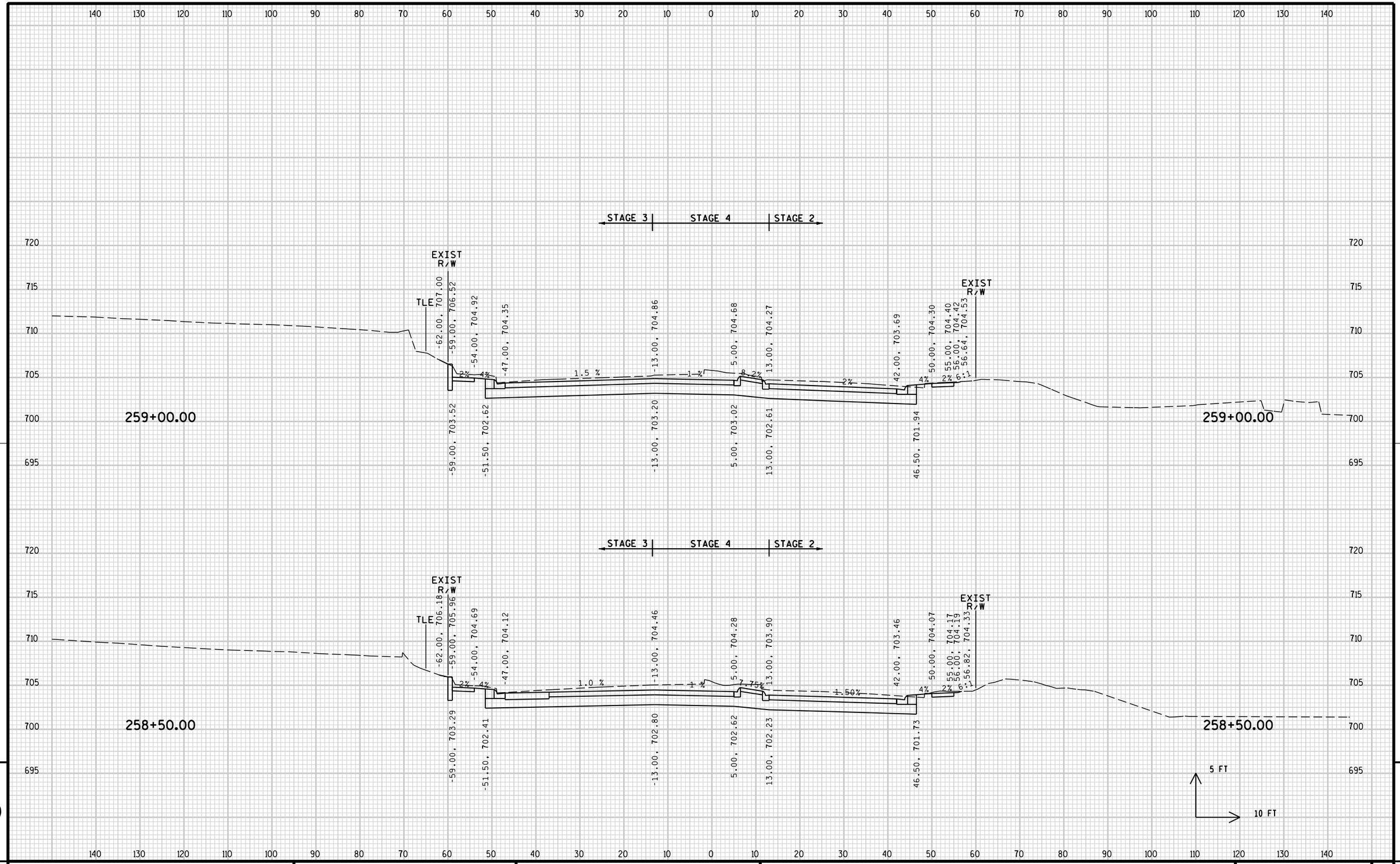
WISDOT/CADDS SHEET 21



PROJECT NO: 2140-08-73	HWY: STH 181	COUNTY: MILWAUKEE	CROSS SECTIONS: MAINLINE	SHEET 1023	E

FILE NAME : s:\@sai\051--100\089\099\micros\design\0873\090201_xs.dgn PLOT DATE : 7/31/2007 PLOT BY : $$...plotuser...$$ PLOT NAME : PLOT SCALE : $$.....plotscale.....$$

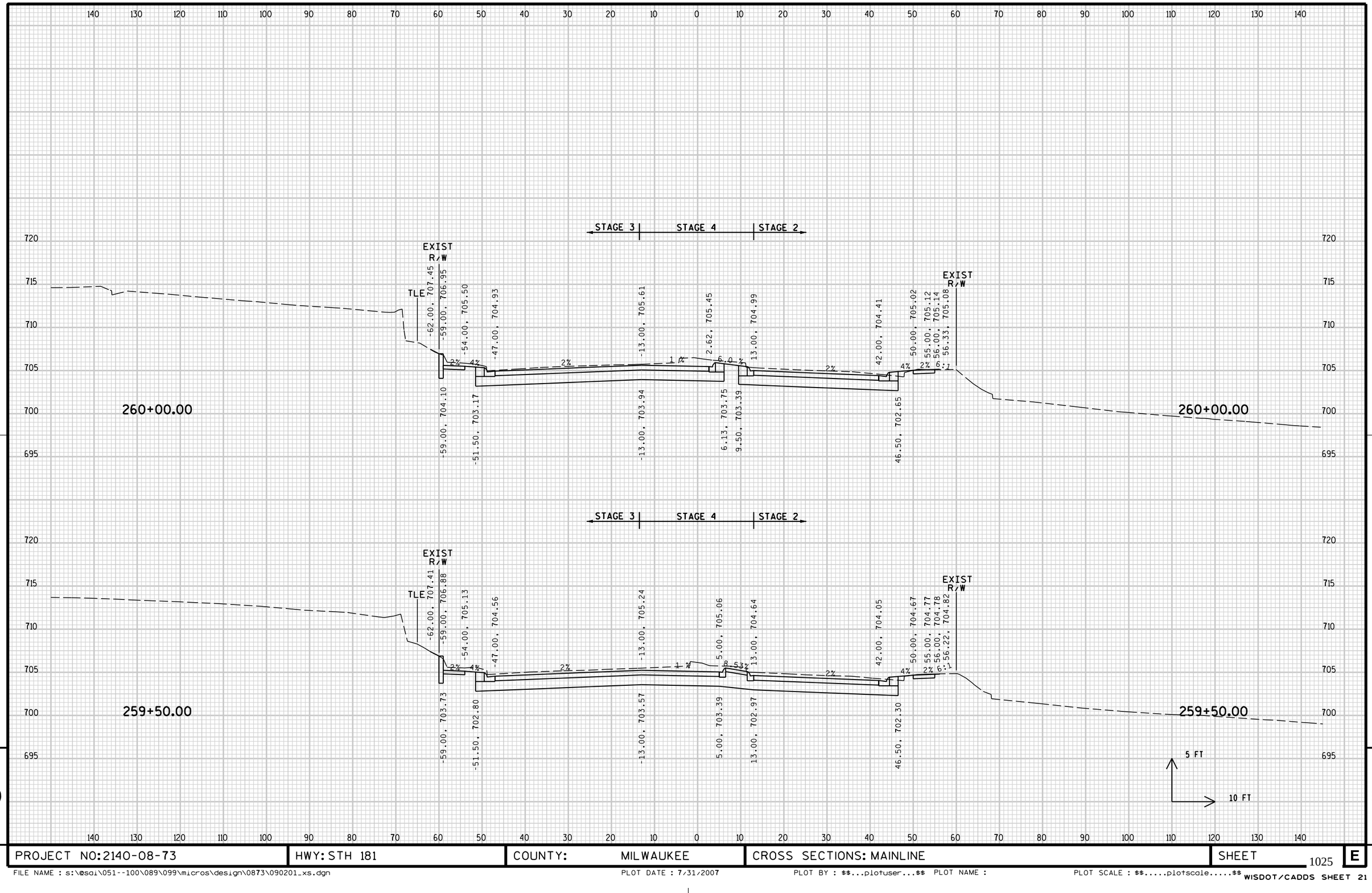
WISDOT/CADDS SHEET 21



PROJECT NO: 2140-08-73	HWY: STH 181	COUNTY: MILWAUKEE	CROSS SECTIONS: MAINLINE	SHEET 1024	E

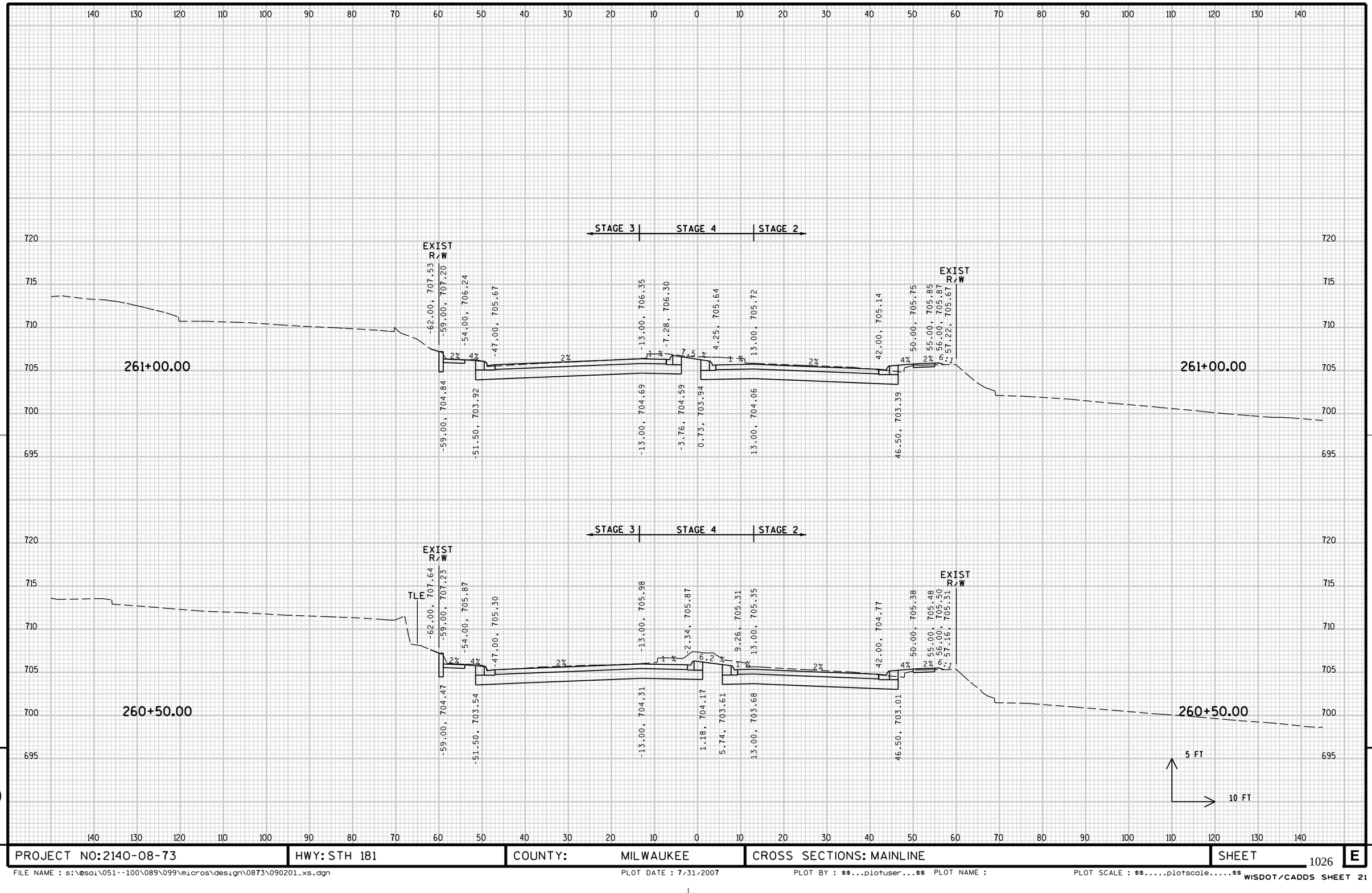
FILE NAME : s:\@sai\051--100\089\099\micros\design\0873\090201_xs.dgn PLOT DATE : 7/31/2007 PLOT BY : $$...plotuser...$$ PLOT NAME : PLOT SCALE : $$.....plotscale.....$$

WISDOT/CADDS SHEET 21



PROJECT NO: 2140-08-73	HWY: STH 181	COUNTY: MILWAUKEE	CROSS SECTIONS: MAINLINE	SHEET	E

FILE NAME : s:\@sdi\051--100\089\099\micros\design\0873\090201_xs.dgn PLOT DATE : 7/31/2007 PLOT BY : $$...plotuser...$$ PLOT NAME : PLOT SCALE : $$.....plotscale.....$$ WISDOT/CADDS SHEET 21

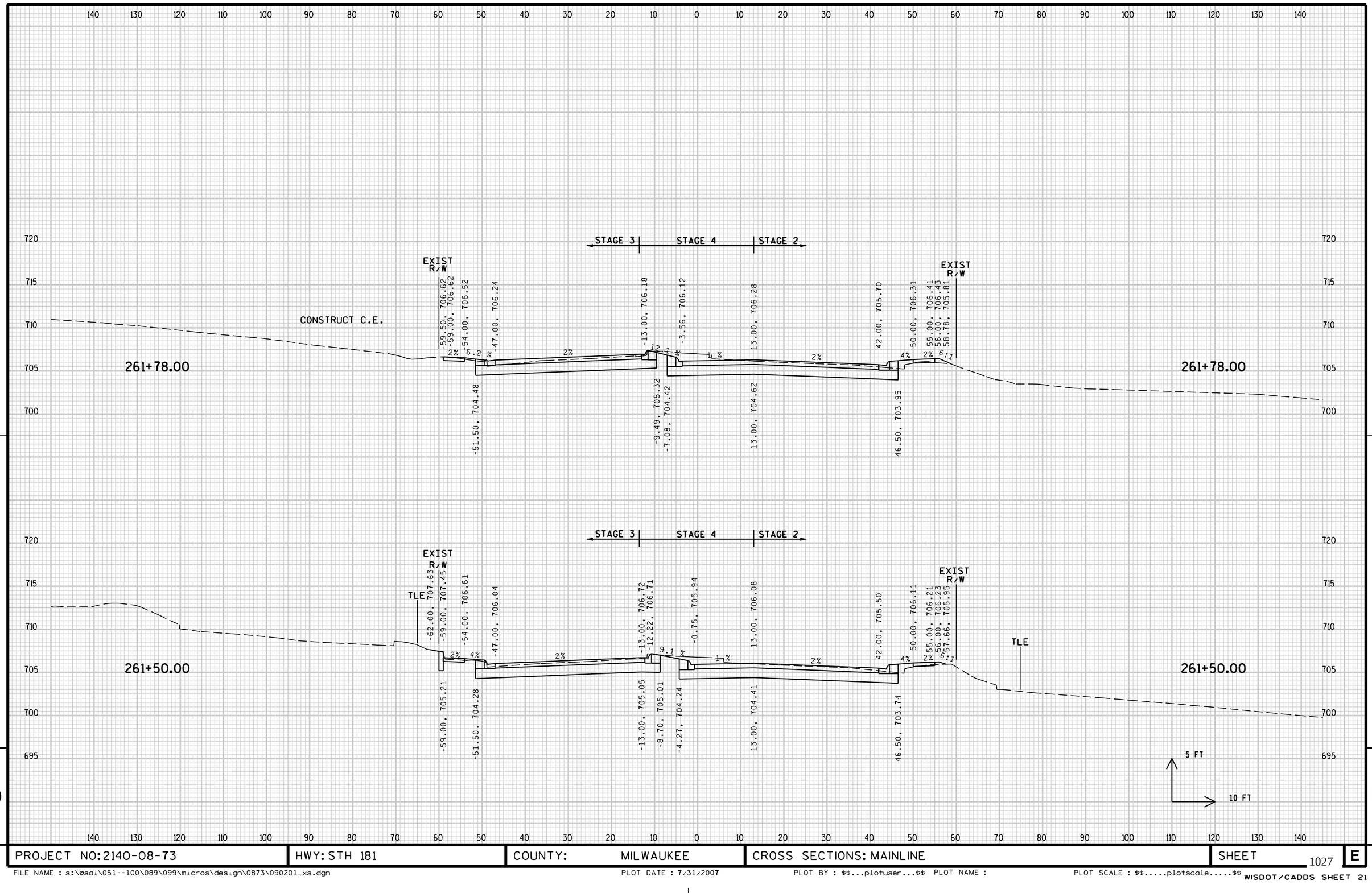


9

9

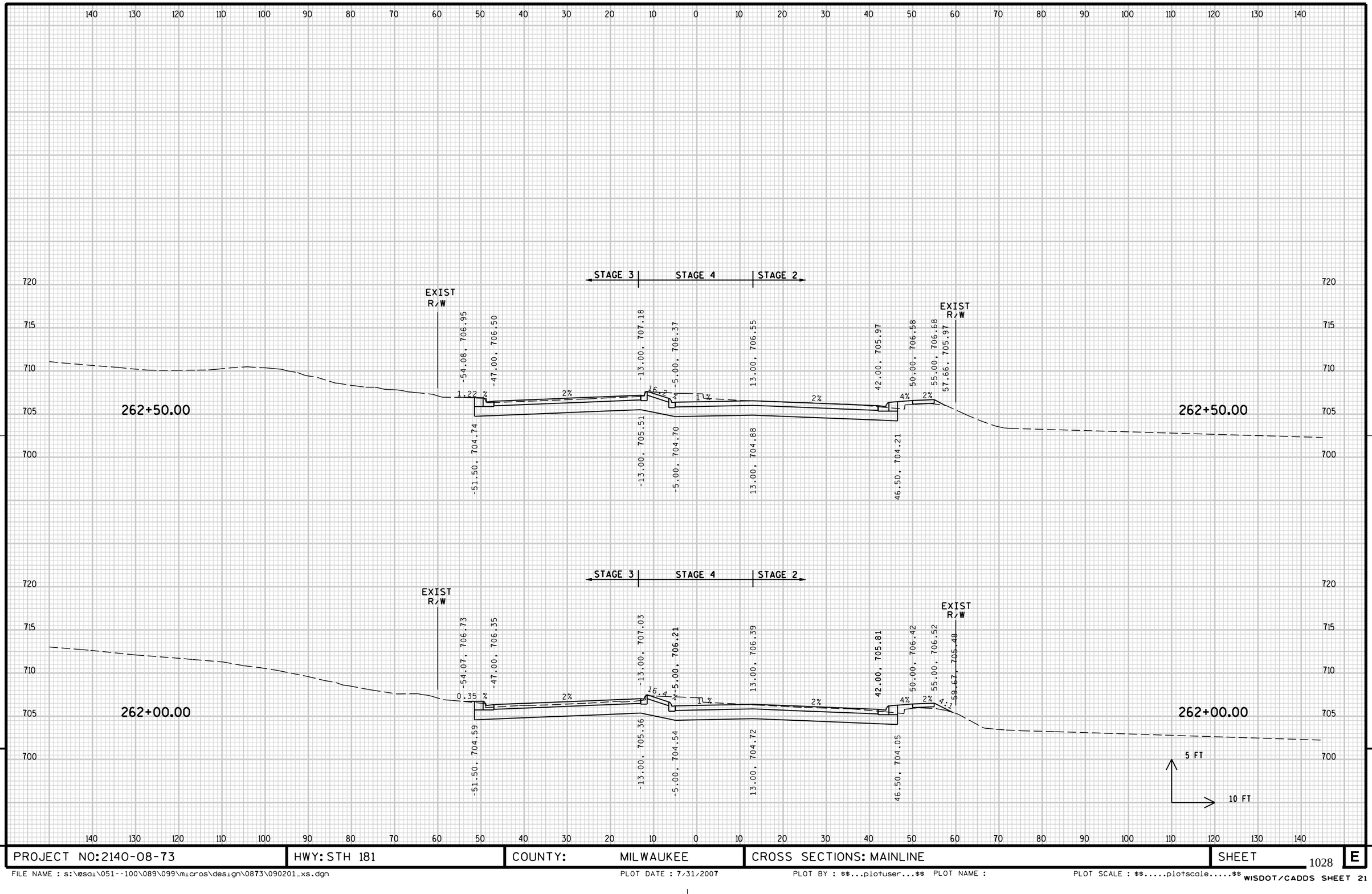
PROJECT NO: 2140-08-73	HWY: STH 181	COUNTY: MILWAUKEE	CROSS SECTIONS: MAINLINE	SHEET 1026	E

FILE NAME : s:\@sdi\051--100\089\099\micros\design\0873\090201_xs.dgn PLOT DATE : 7/31/2007 PLOT BY : $$...plotuser...$$ PLOT NAME : PLOT SCALE : $$.....plotscale.....$$ WISDOT/CADDS SHEET 21



PROJECT NO: 2140-08-73	HWY: STH 181	COUNTY: MILWAUKEE	CROSS SECTIONS: MAINLINE	SHEET 1027 E

FILE NAME : s:\@sdi\051--100\089\099\micros\design\0873\090201_xs.dgn PLOT DATE : 7/31/2007 PLOT BY : $$...plotuser...$$ PLOT NAME : PLOT SCALE : $$.....plotscale.....$$ WISDOT/CADDS SHEET 21



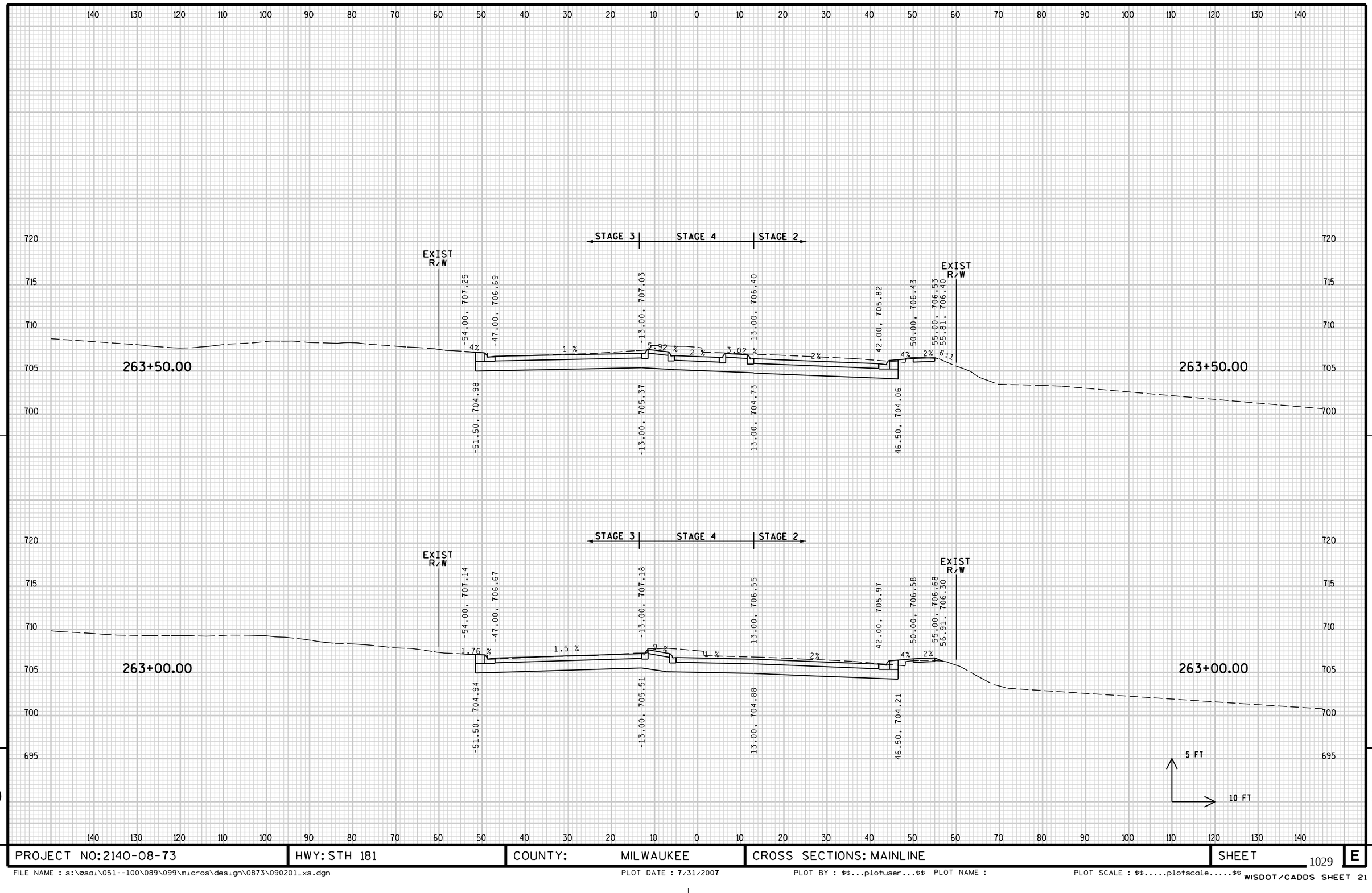
9

9

PROJECT NO: 2140-08-73	HWY: STH 181	COUNTY: MILWAUKEE	CROSS SECTIONS: MAINLINE	SHEET 1028	E

FILE NAME : s:\@sai\051--100\089\099\micros\design\0873\090201_xs.dgn PLOT DATE : 7/31/2007 PLOT BY : $$...plotuser...$$ PLOT NAME : PLOT SCALE : $$.....plotscale.....$$

WISDOT/CADDS SHEET 21



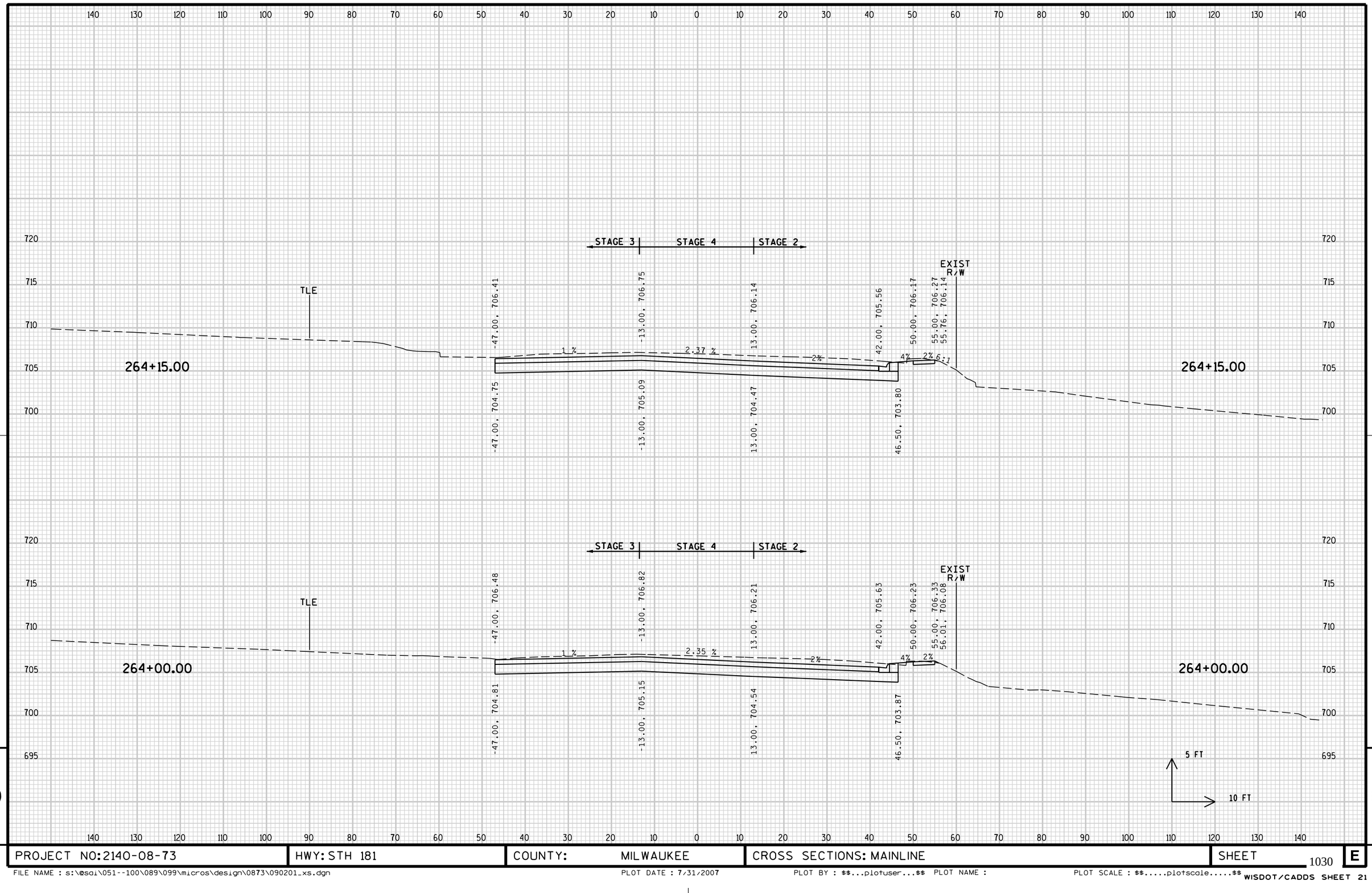
9

9

PROJECT NO: 2140-08-73	HWY: STH 181	COUNTY: MILWAUKEE	CROSS SECTIONS: MAINLINE	SHEET 1029	E

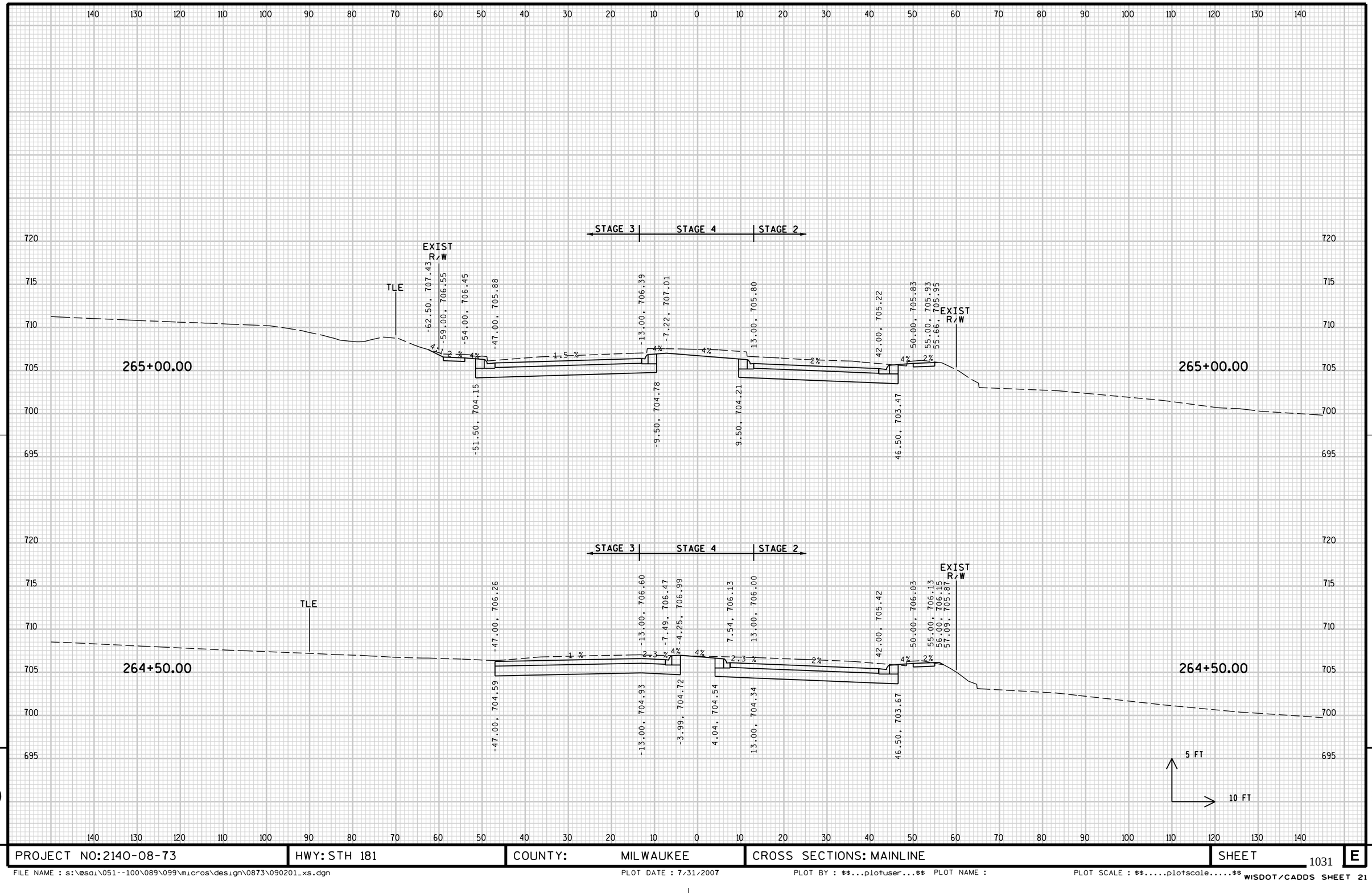
FILE NAME : s:\@sdi\051--100\089\099\micros\design\0873\090201_xs.dgn PLOT DATE : 7/31/2007 PLOT BY : $$...plotuser...$$ PLOT NAME : PLOT SCALE : $$.....plotscale.....$$

WISDOT/CADDS SHEET 21



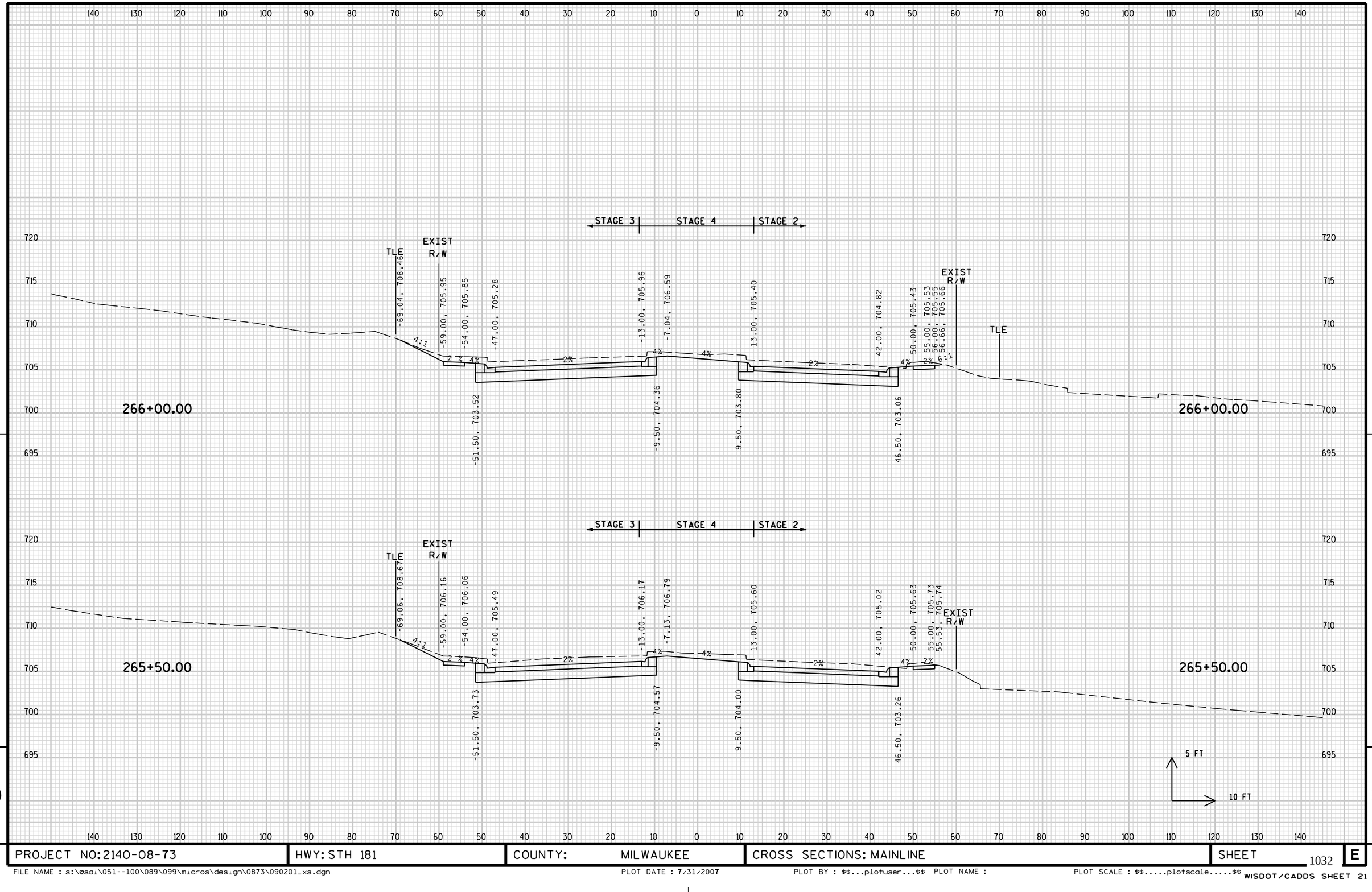
9

PROJECT NO:2140-08-73	HWY: STH 181	COUNTY: MILWAUKEE	CROSS SECTIONS: MAINLINE	SHEET 1030	E



PROJECT NO: 2140-08-73	HWY: STH 181	COUNTY: MILWAUKEE	CROSS SECTIONS: MAINLINE	SHEET 1031	E

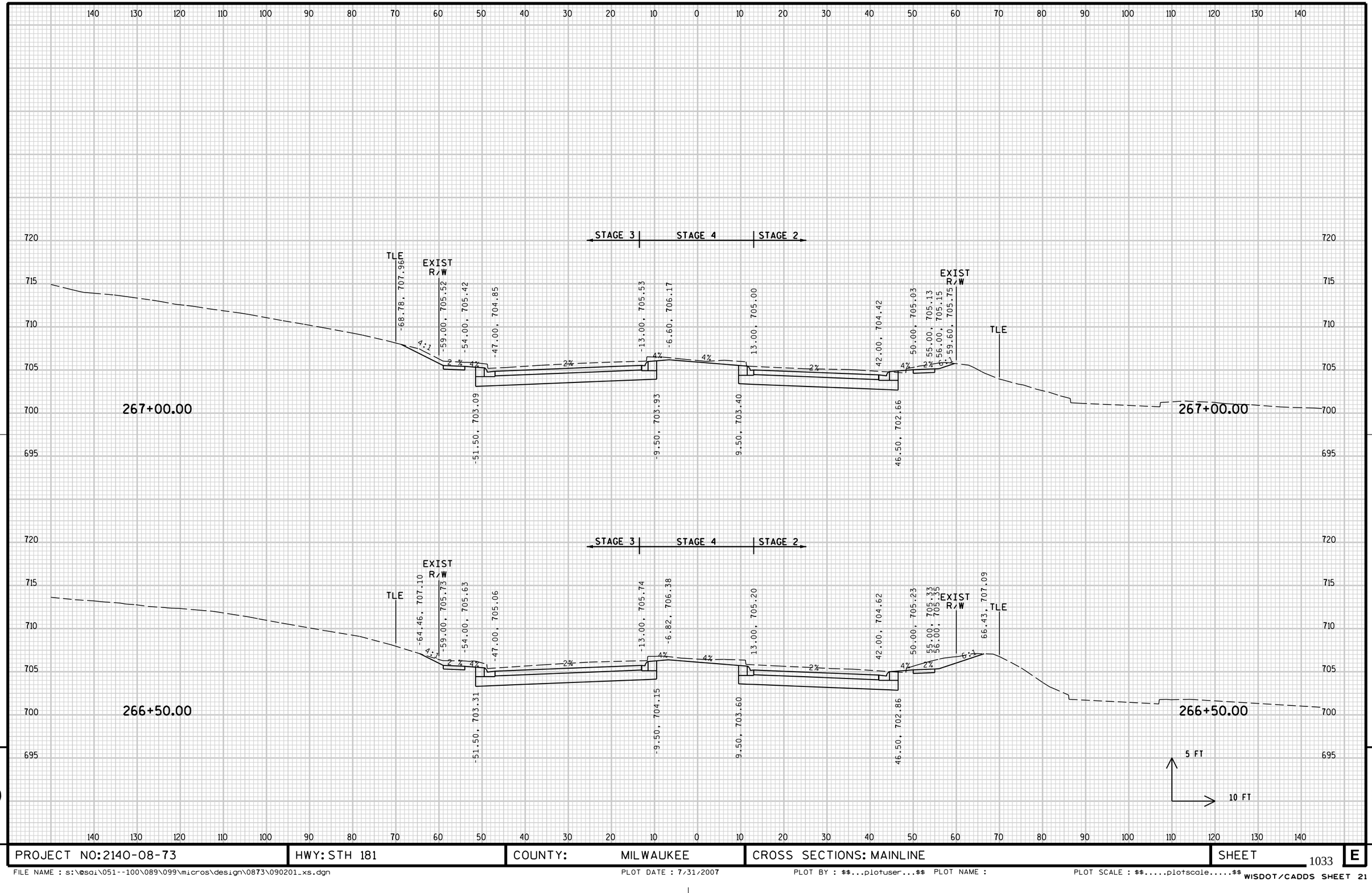
FILE NAME : s:\@sdi\051--100\089\099\micros\design\0873\090201_xs.dgn PLOT DATE : 7/31/2007 PLOT BY : $$...plotuser...$$ PLOT NAME : PLOT SCALE : $$.....plotscale.....$$ WISDOT/CADDS SHEET 21



PROJECT NO: 2140-08-73	HWY: STH 181	COUNTY: MILWAUKEE	CROSS SECTIONS: MAINLINE	SHEET 1032	E

FILE NAME : s:\@sai\051--100\089\099\micros\design\0873\090201_xs.dgn PLOT DATE : 7/31/2007 PLOT BY : $$...plotuser...$$ PLOT NAME : PLOT SCALE : $$.....plotscale.....$$

WISDOT/CADDS SHEET 21



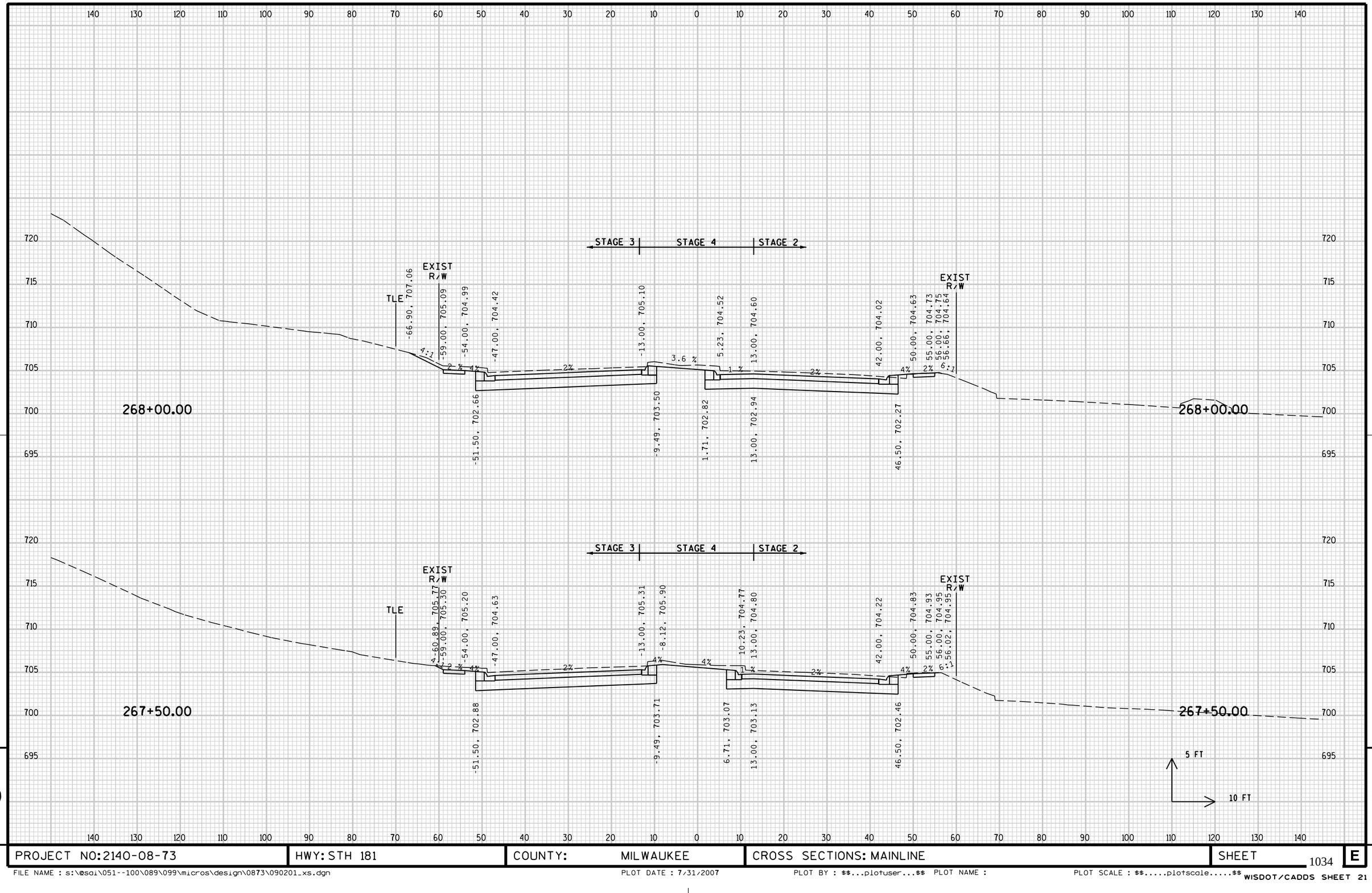
9

9

PROJECT NO: 2140-08-73	HWY: STH 181	COUNTY: MILWAUKEE	CROSS SECTIONS: MAINLINE	SHEET 1033	E

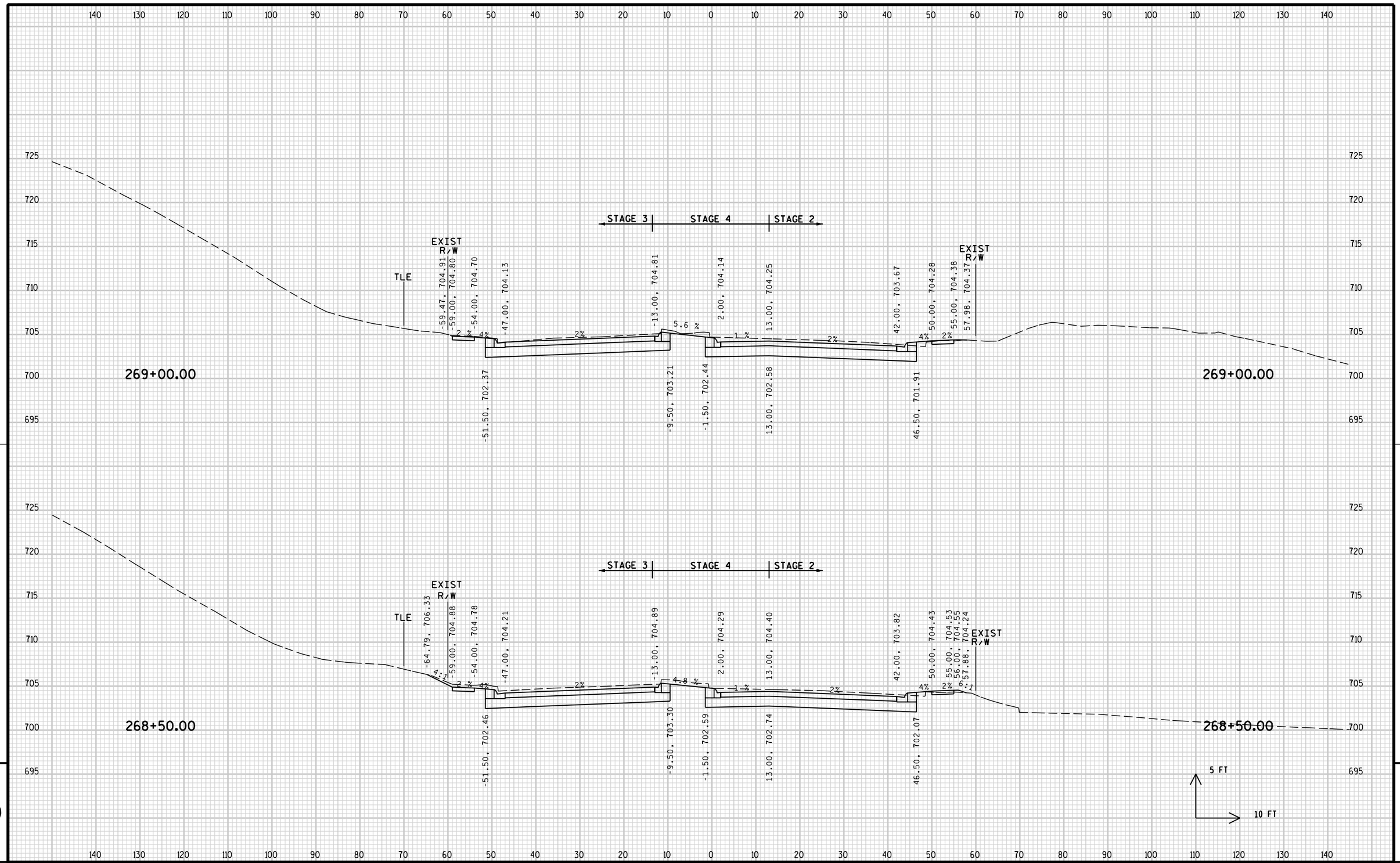
FILE NAME : s:\@sai\051--100\089\099\micros\design\0873\090201_xs.dgn PLOT DATE : 7/31/2007 PLOT BY : $$...plotuser...$$ PLOT NAME : PLOT SCALE : $$.....plotscale.....$$

WISDOT/CADDS SHEET 21

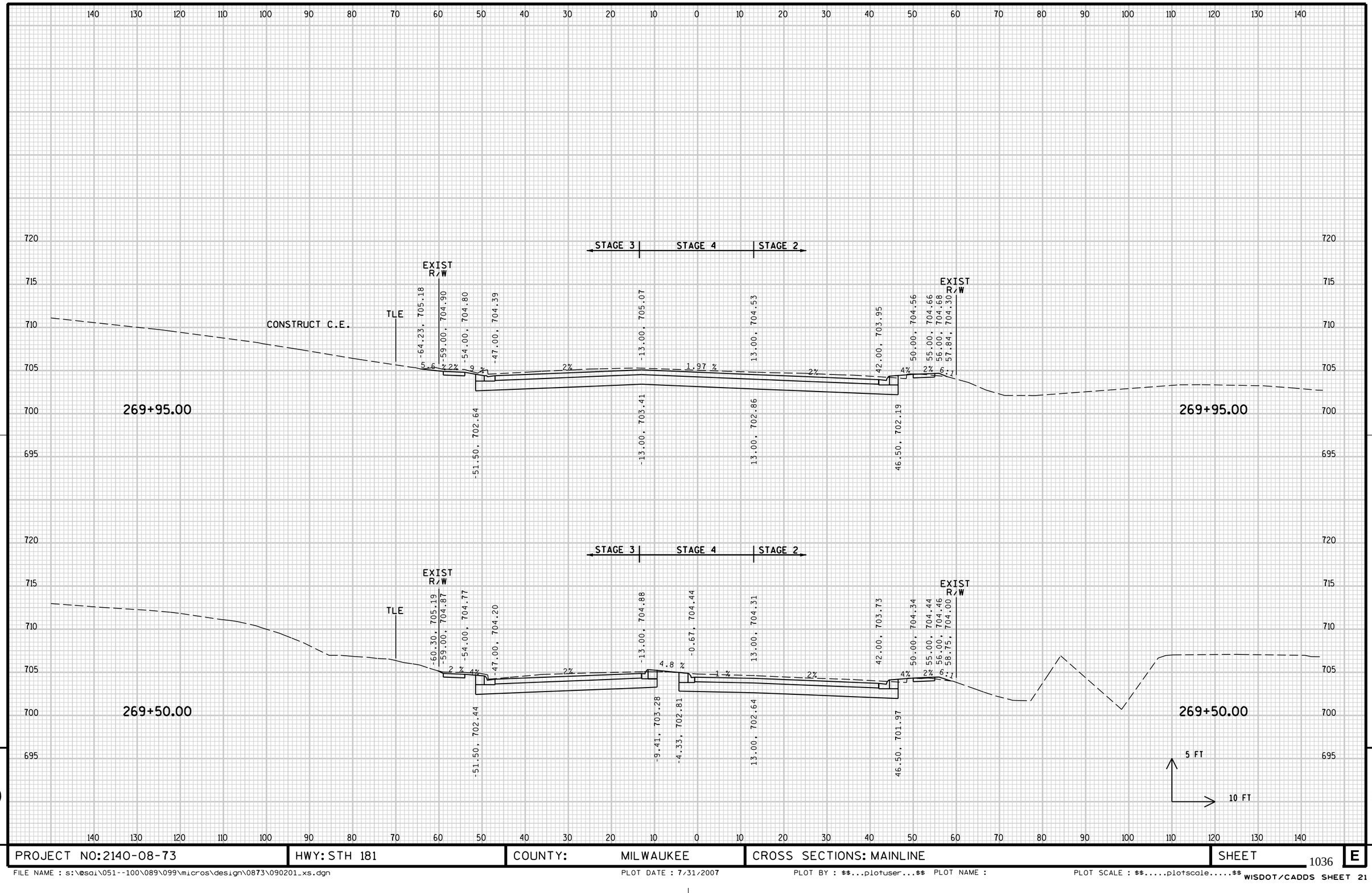


PROJECT NO: 2140-08-73	HWY: STH 181	COUNTY: MILWAUKEE	CROSS SECTIONS: MAINLINE	SHEET 1034	E

FILE NAME : s:\@sdi\051--100\089\099\micros\design\0873\090201_xs.dgn PLOT DATE : 7/31/2007 PLOT BY : $$...plotuser...$$ PLOT NAME : PLOT SCALE : $$.....plotscale.....$$ WISDOT/CADDS SHEET 21

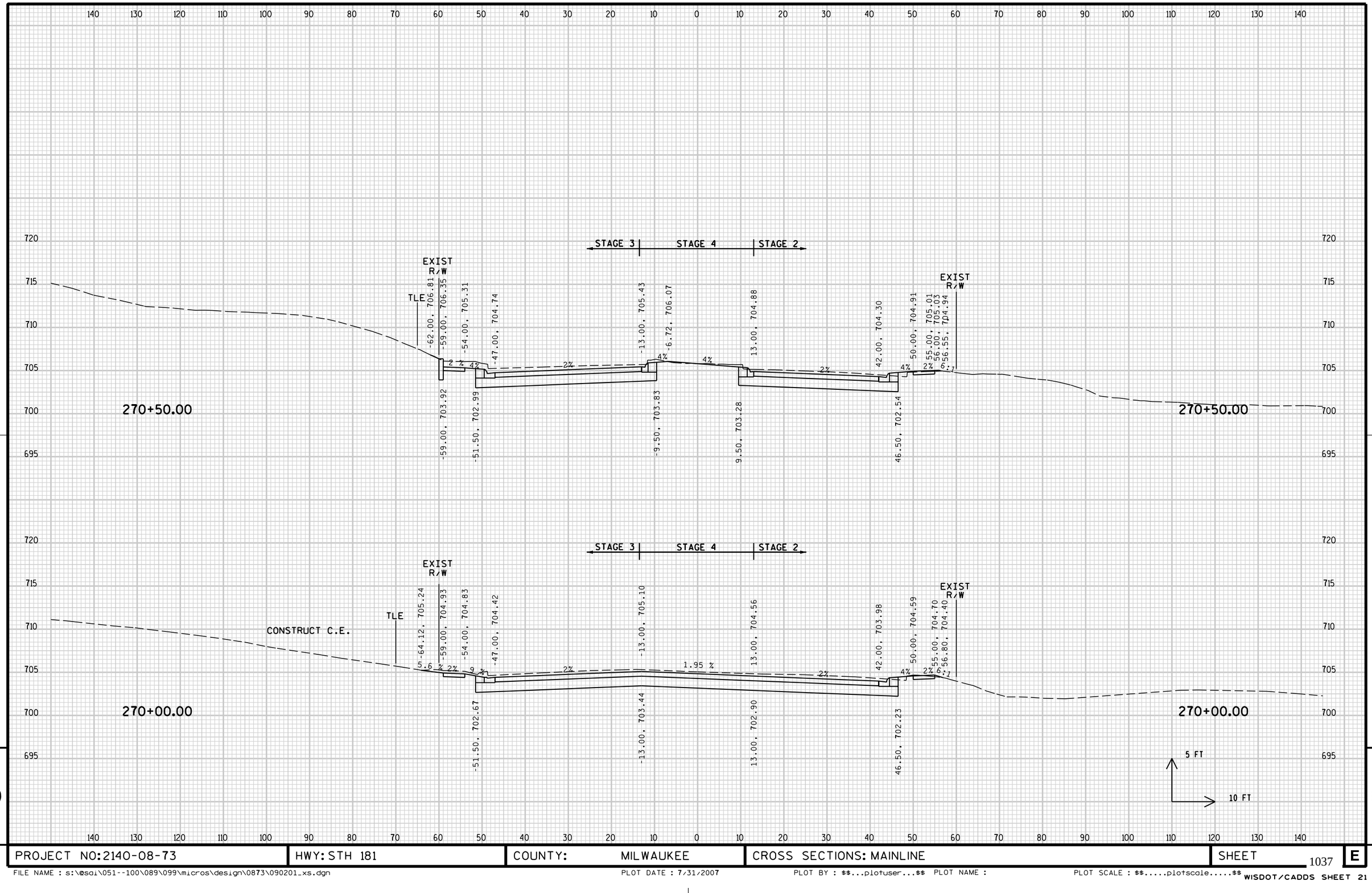


PROJECT NO: 2140-08-73	HWY: STH 181	COUNTY: MILWAUKEE	CROSS SECTIONS: MAINLINE	SHEET 1035	E



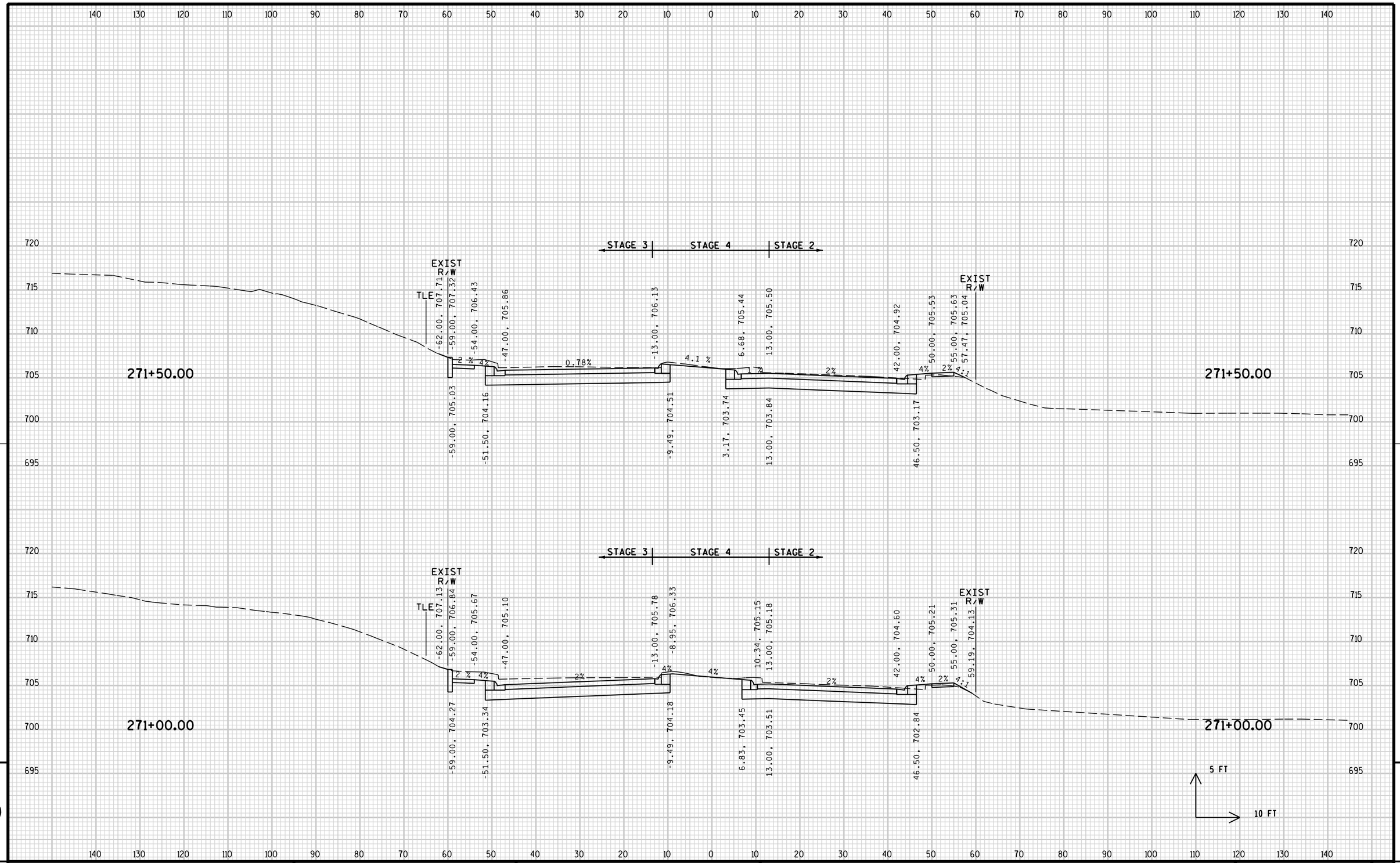
PROJECT NO: 2140-08-73	HWY: STH 181	COUNTY: MILWAUKEE	CROSS SECTIONS: MAINLINE	SHEET 1036	E

FILE NAME : s:\@sdi\051--100\089\099\micros\design\0873\090201_xs.dgn PLOT DATE : 7/31/2007 PLOT BY : $$...plotuser...$$ PLOT NAME : PLOT SCALE : $$.....plotscale.....$$ WISDOT/CADDS SHEET 21



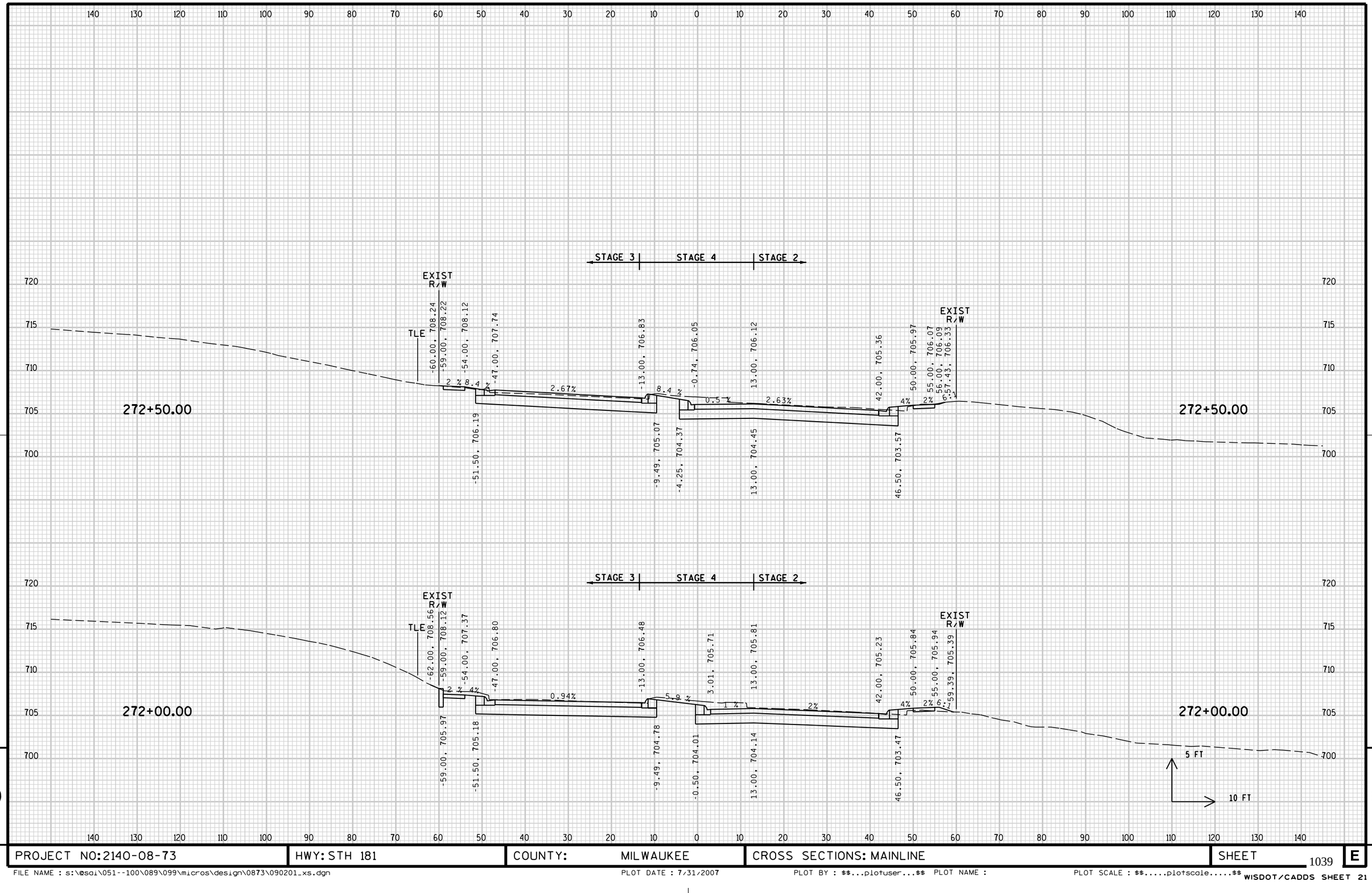
PROJECT NO: 2140-08-73	HWY: STH 181	COUNTY: MILWAUKEE	CROSS SECTIONS: MAINLINE	SHEET 1037 E

FILE NAME : s:\@sdi\051--100\089\099\micros\design\0873\090201_xs.dgn PLOT DATE : 7/31/2007 PLOT BY : $$...plotuser...$$ PLOT NAME : PLOT SCALE : $$.....plotscale.....$$ WISDOT/CADDS SHEET 21



PROJECT NO: 2140-08-73	HWY: STH 181	COUNTY: MILWAUKEE	CROSS SECTIONS: MAINLINE	SHEET 1038	E

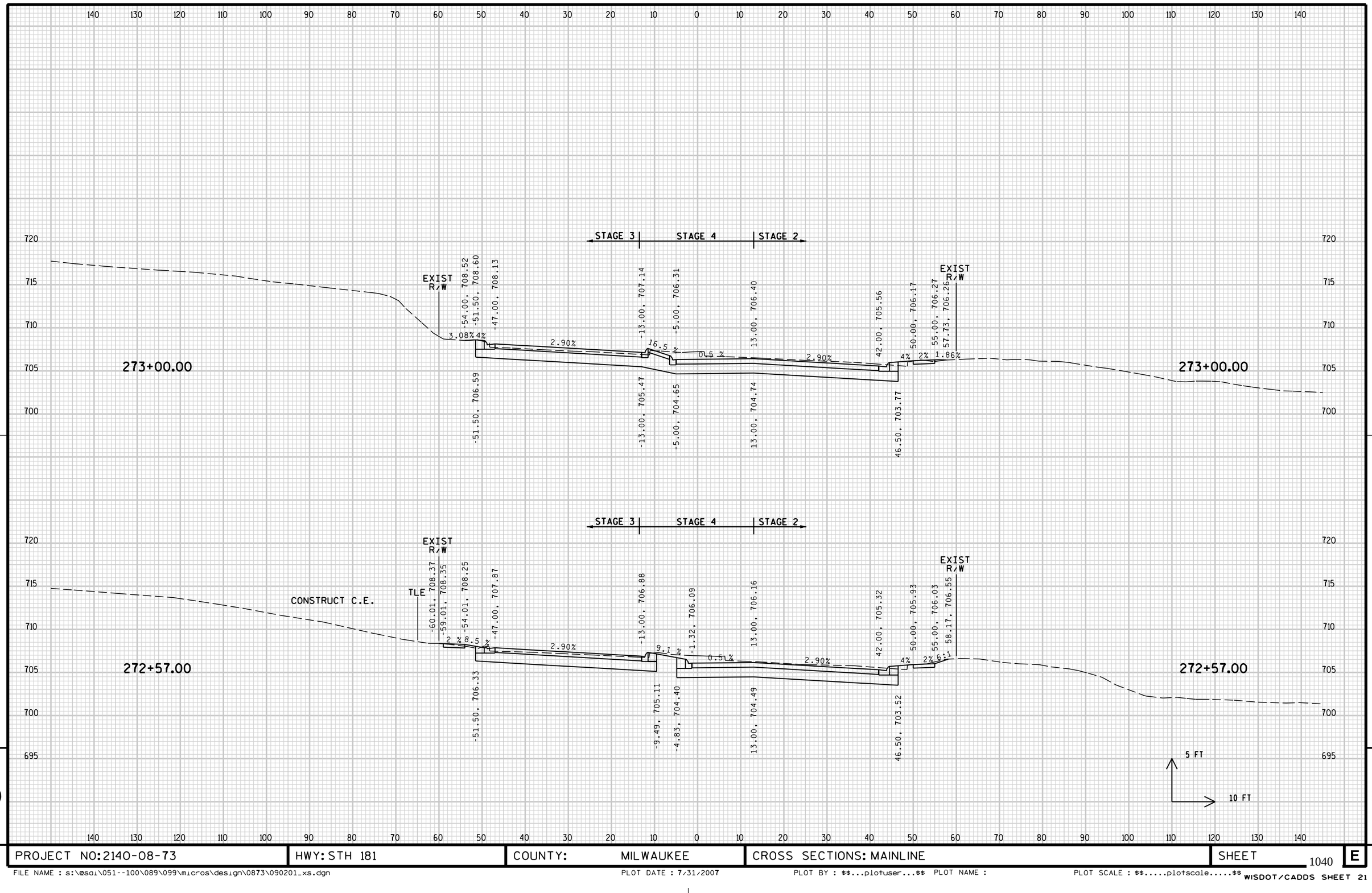
FILE NAME : s:\@sdi\051--100\089\099\micros\design\0873\090201_xs.dgn PLOT DATE : 7/31/2007 PLOT BY : $$...plotuser...$$ PLOT NAME : PLOT SCALE : $$.....plotscale.....$$ WISDOT/CADDS SHEET 21



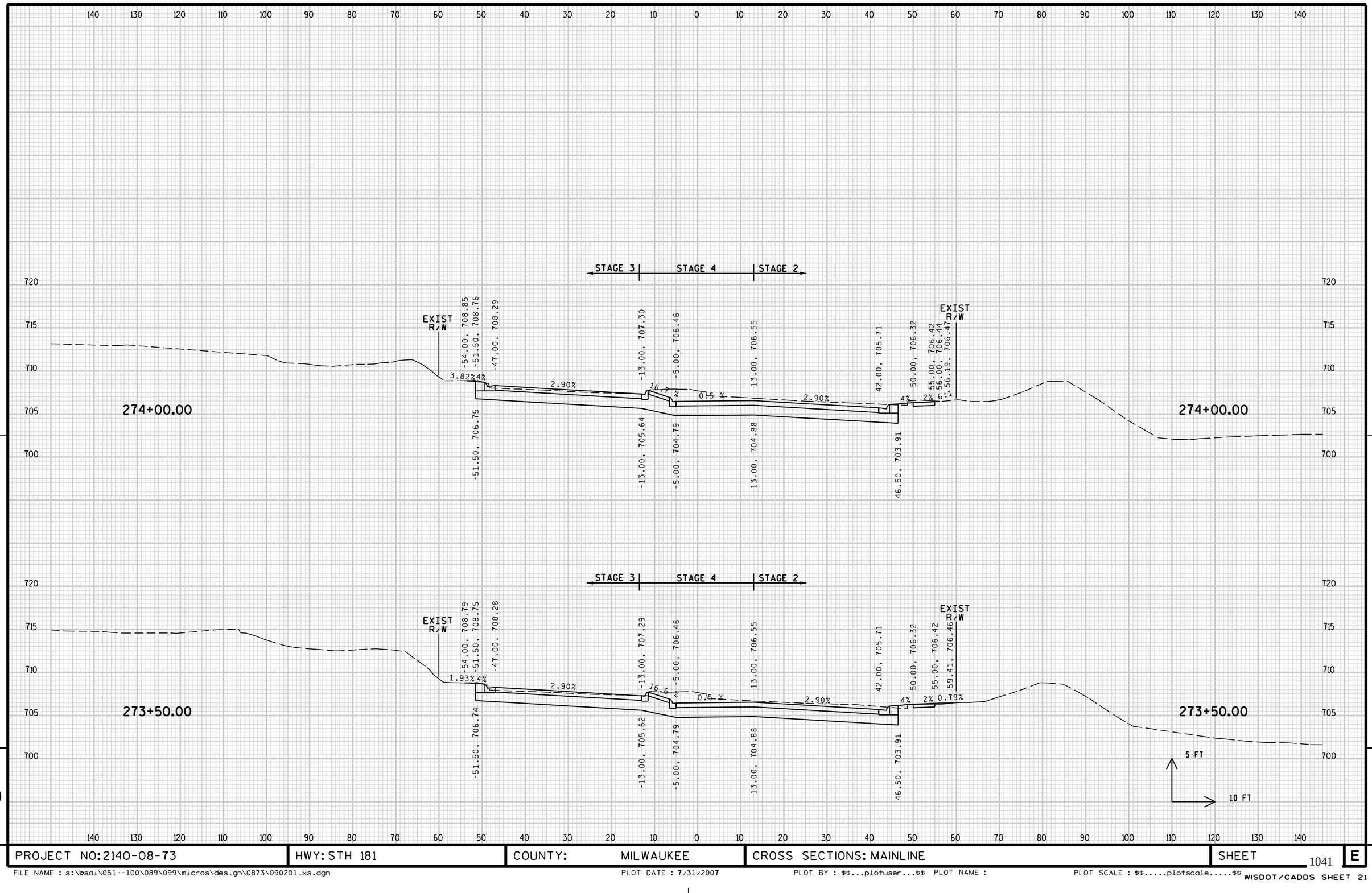
PROJECT NO: 2140-08-73	HWY: STH 181	COUNTY: MILWAUKEE	CROSS SECTIONS: MAINLINE	SHEET 1039 E

FILE NAME : s:\@sgi\051--100\089\099\micros\design\0873\090201_xs.dgn PLOT DATE : 7/31/2007 PLOT BY : $$...plotuser...$$ PLOT NAME : PLOT SCALE : $$.....plotscale.....$$

WISDOT/CADDS SHEET 21

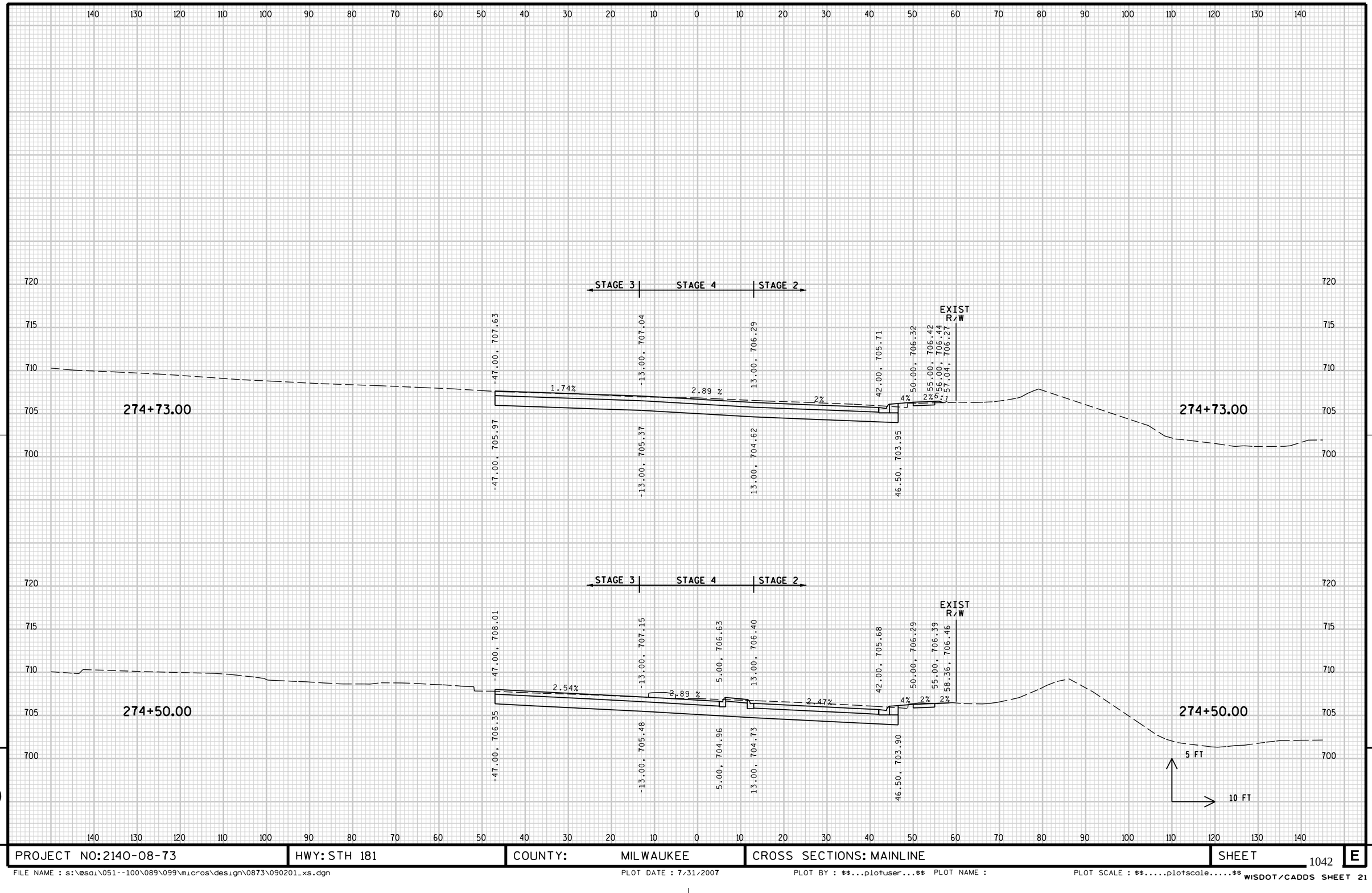


PROJECT NO: 2140-08-73	HWY: STH 181	COUNTY: MILWAUKEE	CROSS SECTIONS: MAINLINE	SHEET 1040	E



9 9

PROJECT NO: 2140-08-73	HWY: STH 181	COUNTY: MILWAUKEE	CROSS SECTIONS: MAINLINE	SHEET 1041	E



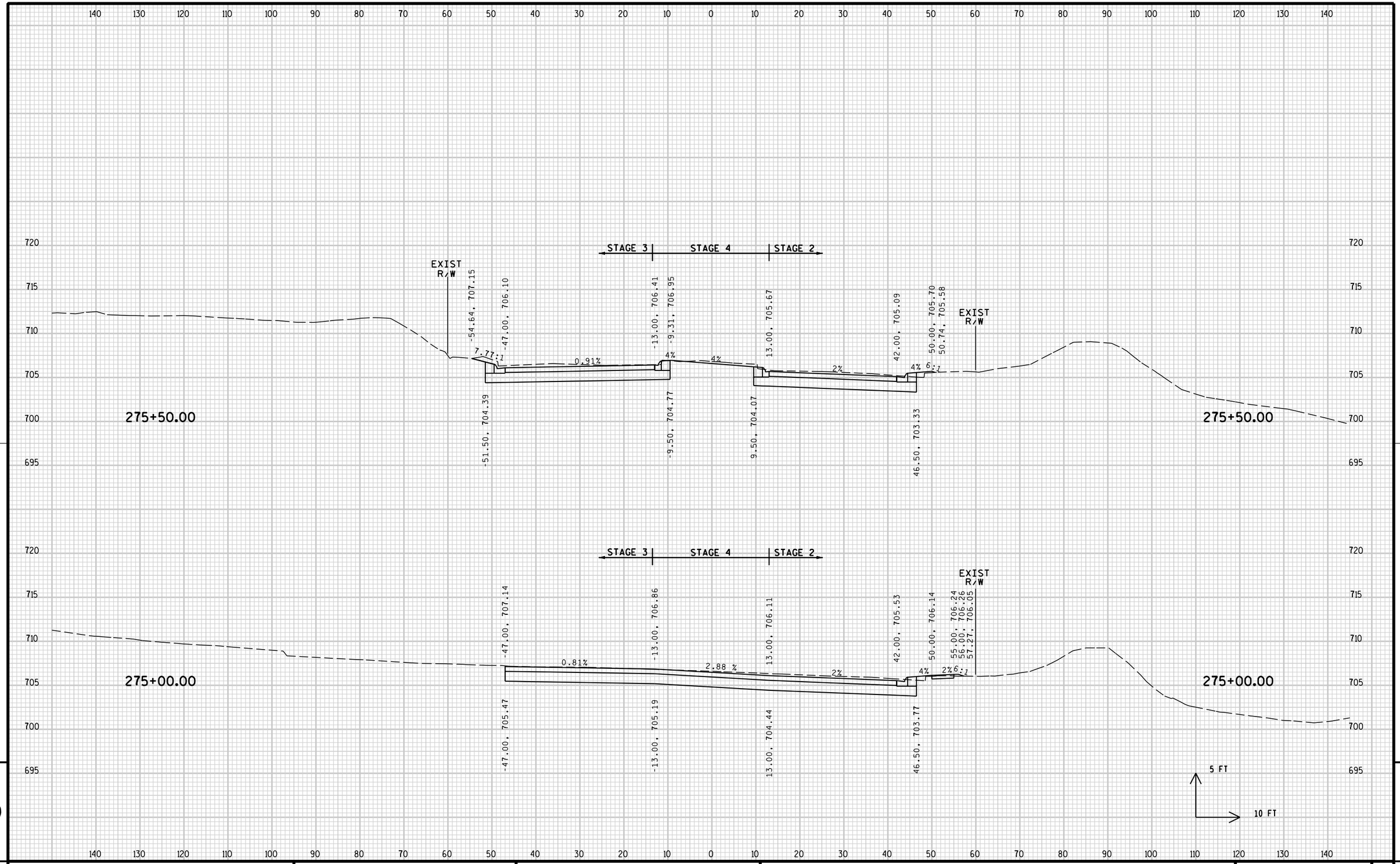
9

9

PROJECT NO: 2140-08-73	HWY: STH 181	COUNTY: MILWAUKEE	CROSS SECTIONS: MAINLINE	SHEET 1042	E

FILE NAME : s:\@sdi\051--100\089\099\micros\design\0873\090201_xs.dgn PLOT DATE : 7/31/2007 PLOT BY : $$...plotuser...$$ PLOT NAME : PLOT SCALE : $$.....plotscale.....$$

WISDOT/CADDS SHEET 21



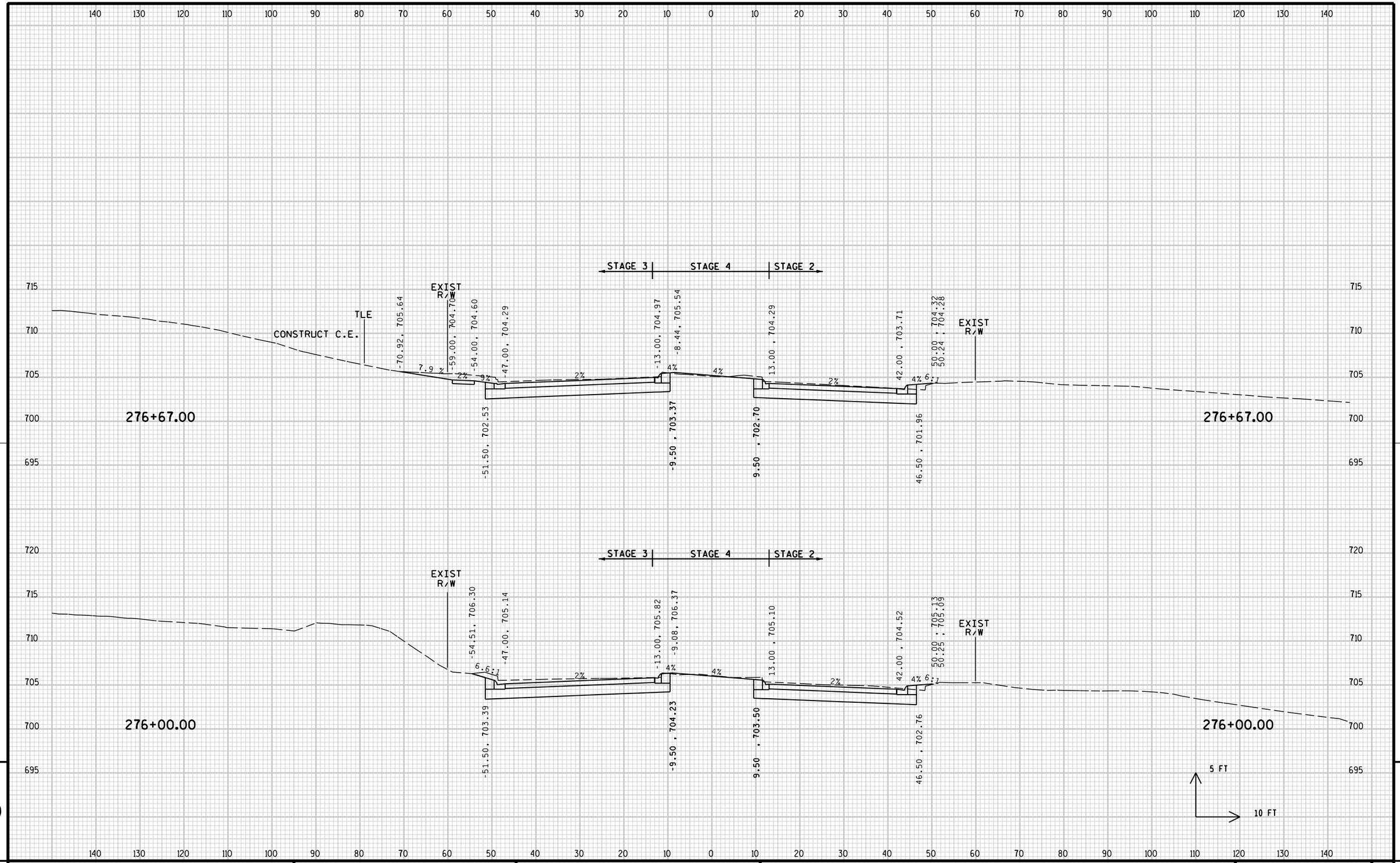
9

9

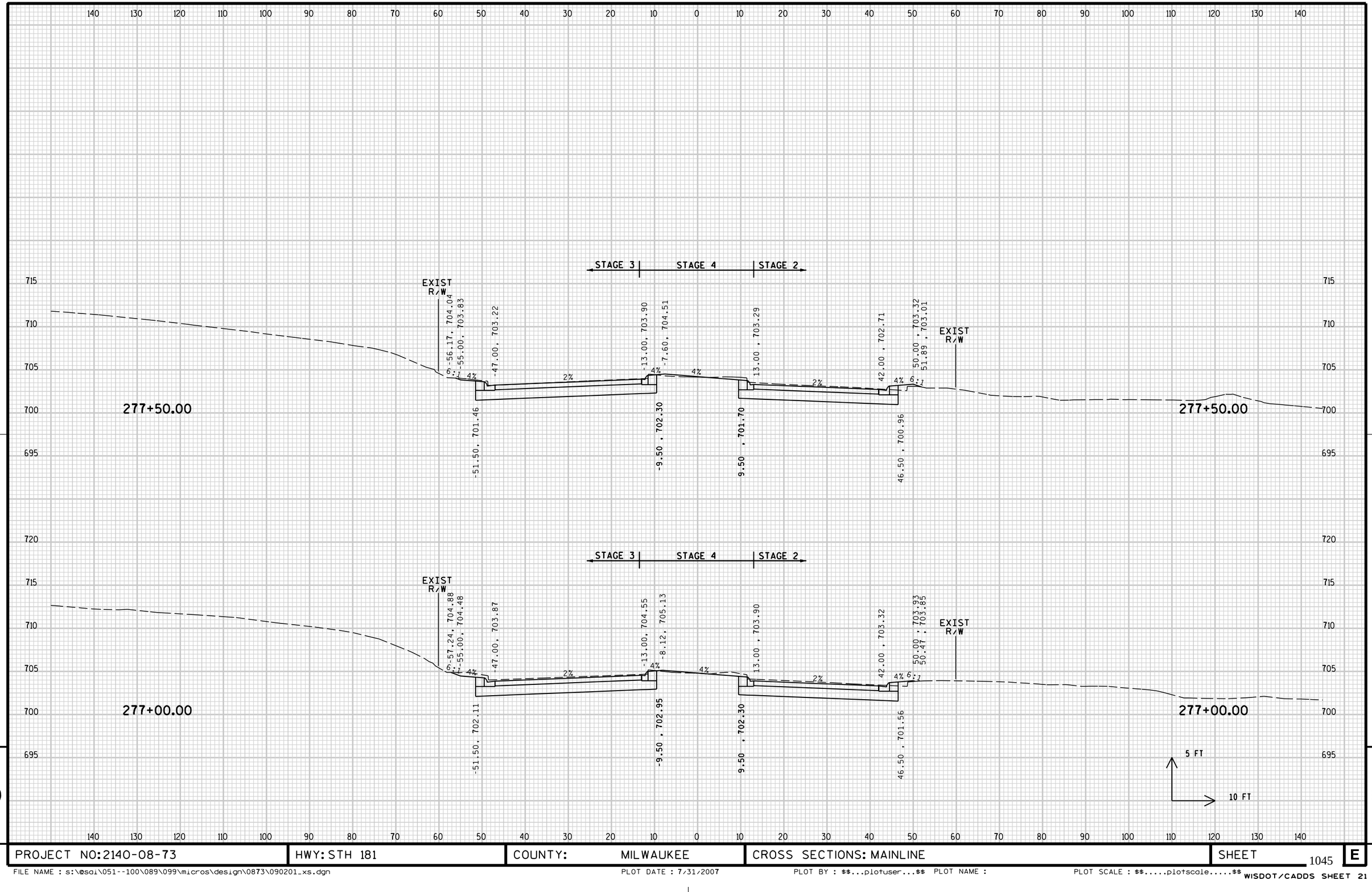
PROJECT NO: 2140-08-73	HWY: STH 181	COUNTY: MILWAUKEE	CROSS SECTIONS: MAINLINE	SHEET 1043	E

FILE NAME : s:\@sai\051--100\089\099\micros\design\0873\090201_xs.dgn PLOT DATE : 7/31/2007 PLOT BY : $$...plotuser...$$ PLOT NAME : PLOT SCALE : $$.....plotscale.....$$

WISDOT/CADDS SHEET 21



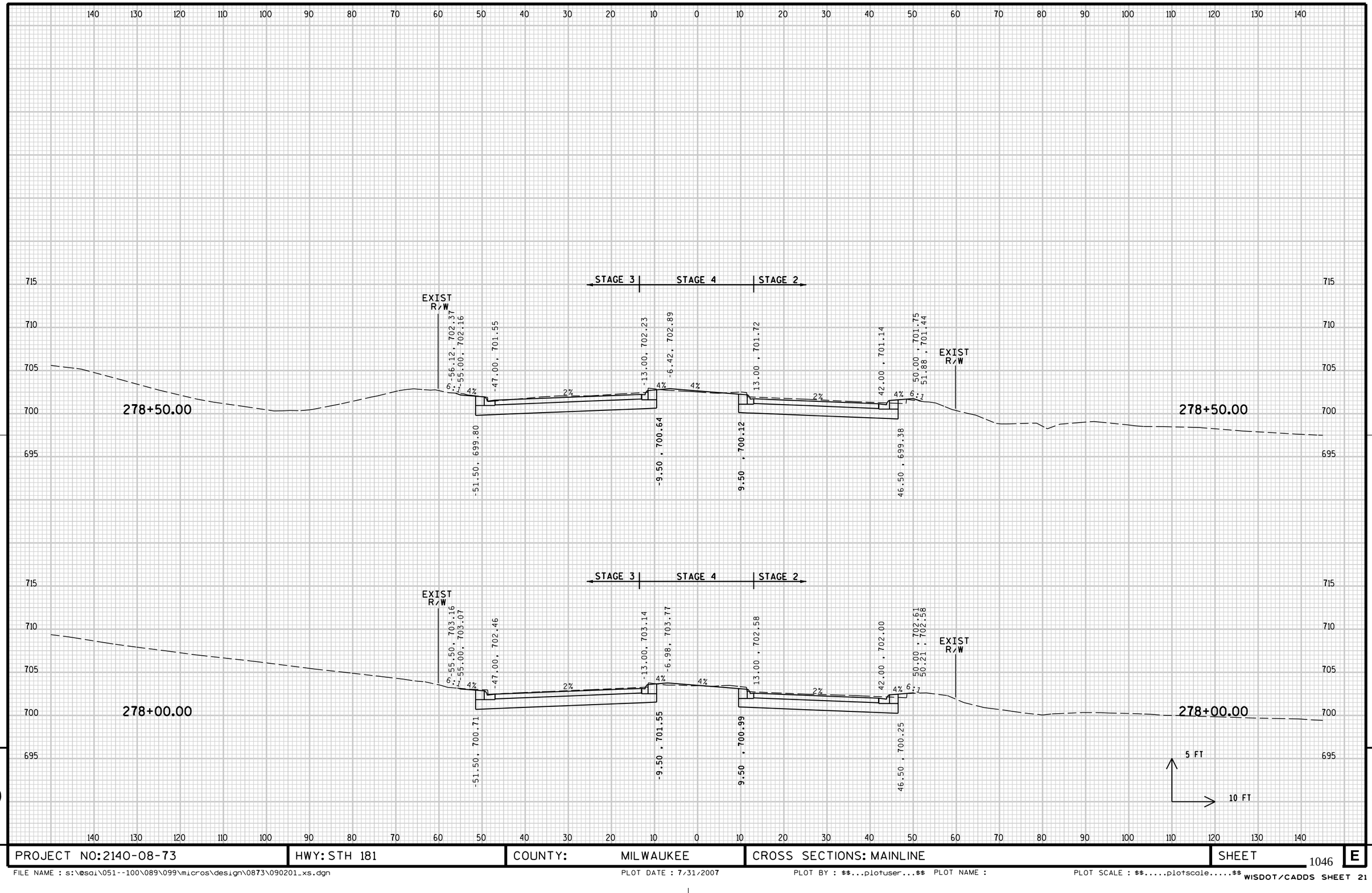
PROJECT NO: 2140-08-73	HWY: STH 181	COUNTY: MILWAUKEE	CROSS SECTIONS: MAINLINE	SHEET 1044	E



PROJECT NO: 2140-08-73	HWY: STH 181	COUNTY: MILWAUKEE	CROSS SECTIONS: MAINLINE	SHEET 1045	E

FILE NAME : s:\@sdi\051--100\089\099\micros\design\0873\090201_xs.dgn PLOT DATE : 7/31/2007 PLOT BY : $$...plotuser...$$ PLOT NAME : PLOT SCALE : $$.....plotscale.....$$

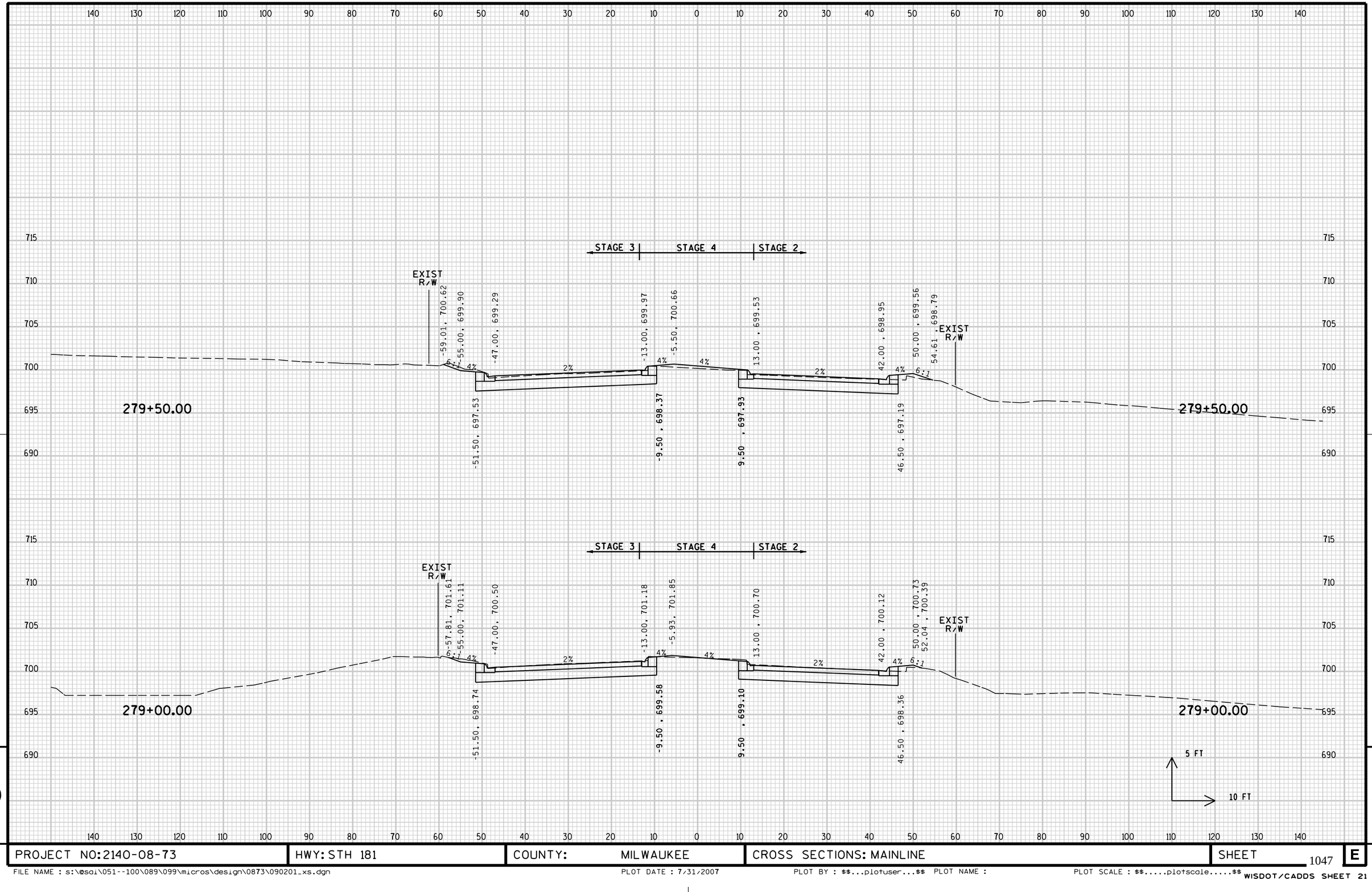
WISDOT/CADDS SHEET 21



9

9

PROJECT NO: 2140-08-73	HWY: STH 181	COUNTY: MILWAUKEE	CROSS SECTIONS: MAINLINE	SHEET 1046	E

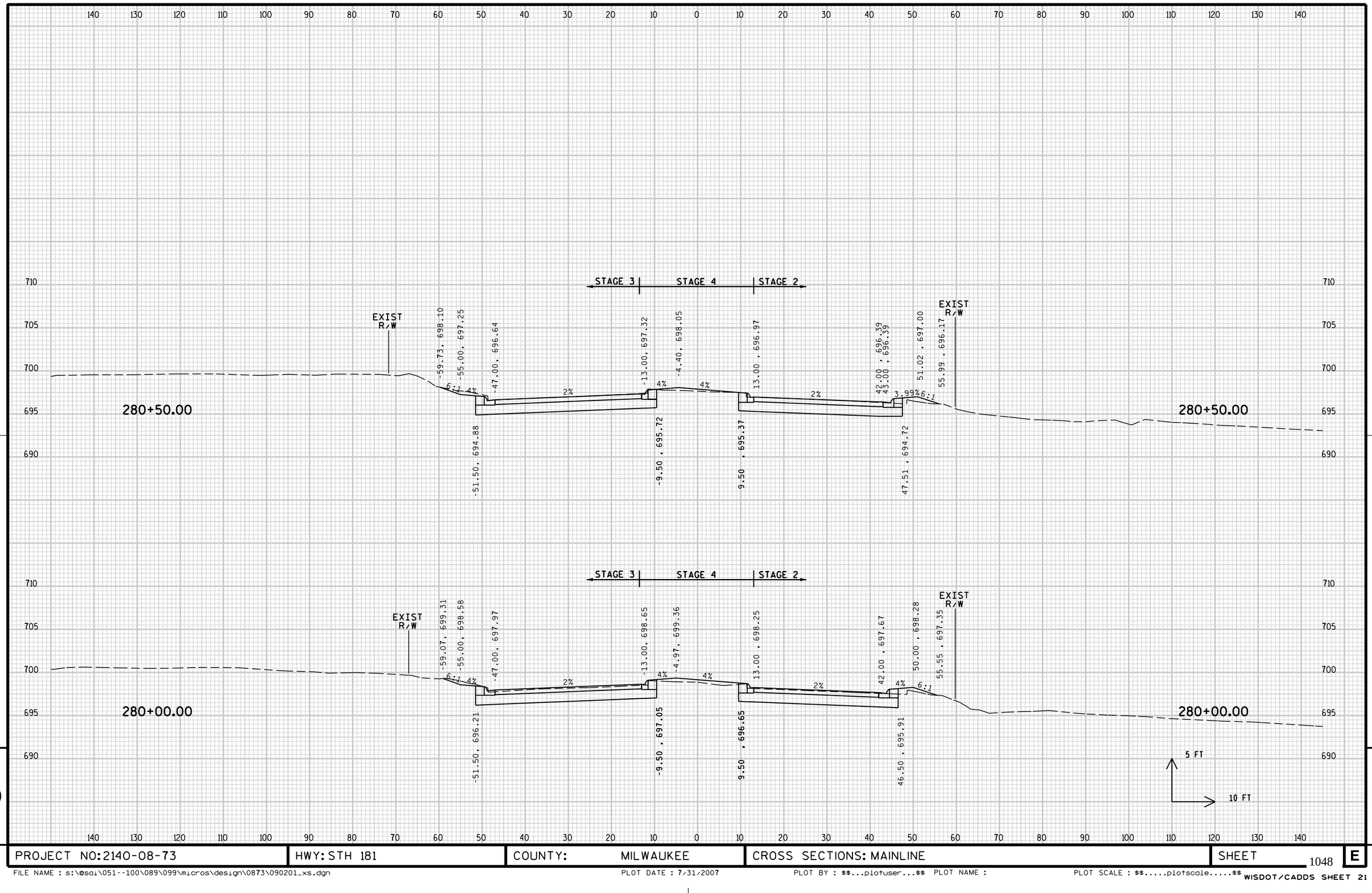


9

9

PROJECT NO: 2140-08-73	HWY: STH 181	COUNTY: MILWAUKEE	CROSS SECTIONS: MAINLINE	SHEET 1047	E

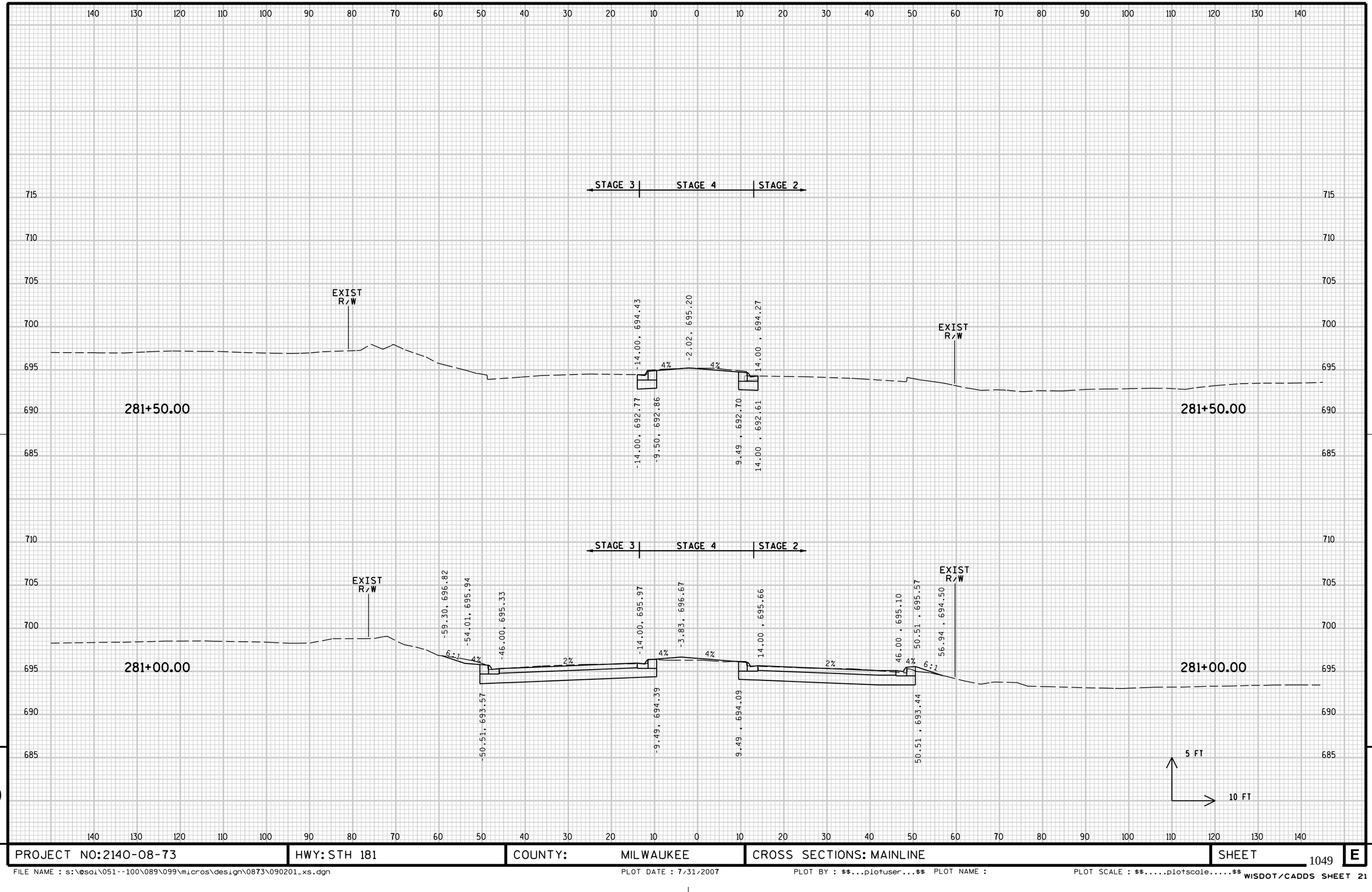
FILE NAME : s:\@sdi\051--100\089\099\micros\design\0873\090201_xs.dgn PLOT DATE : 7/31/2007 PLOT BY : $$...plotuser...$$ PLOT NAME : PLOT SCALE : $$.....plotscale.....$$ WISDOT/CADDS SHEET 21



PROJECT NO: 2140-08-73	HWY: STH 181	COUNTY: MILWAUKEE	CROSS SECTIONS: MAINLINE	SHEET 1048	E

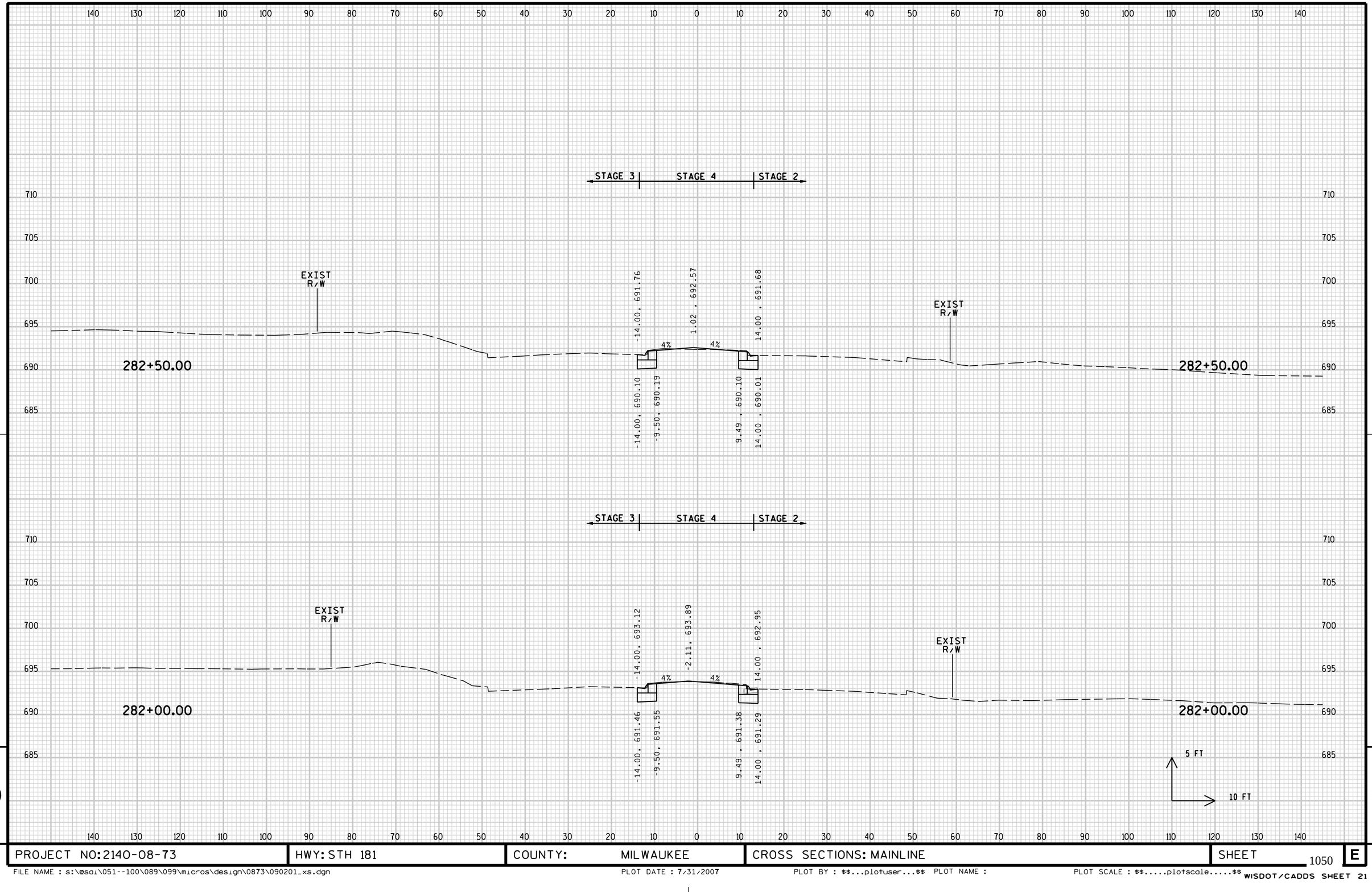
FILE NAME : s:\@sdi\051--100\089\099\micros\design\0873\090201_xs.dgn PLOT DATE : 7/31/2007 PLOT BY : $$...plotuser...$$ PLOT NAME : PLOT SCALE : $$.....plotscale.....$$

WISDOT/CADDS SHEET 21



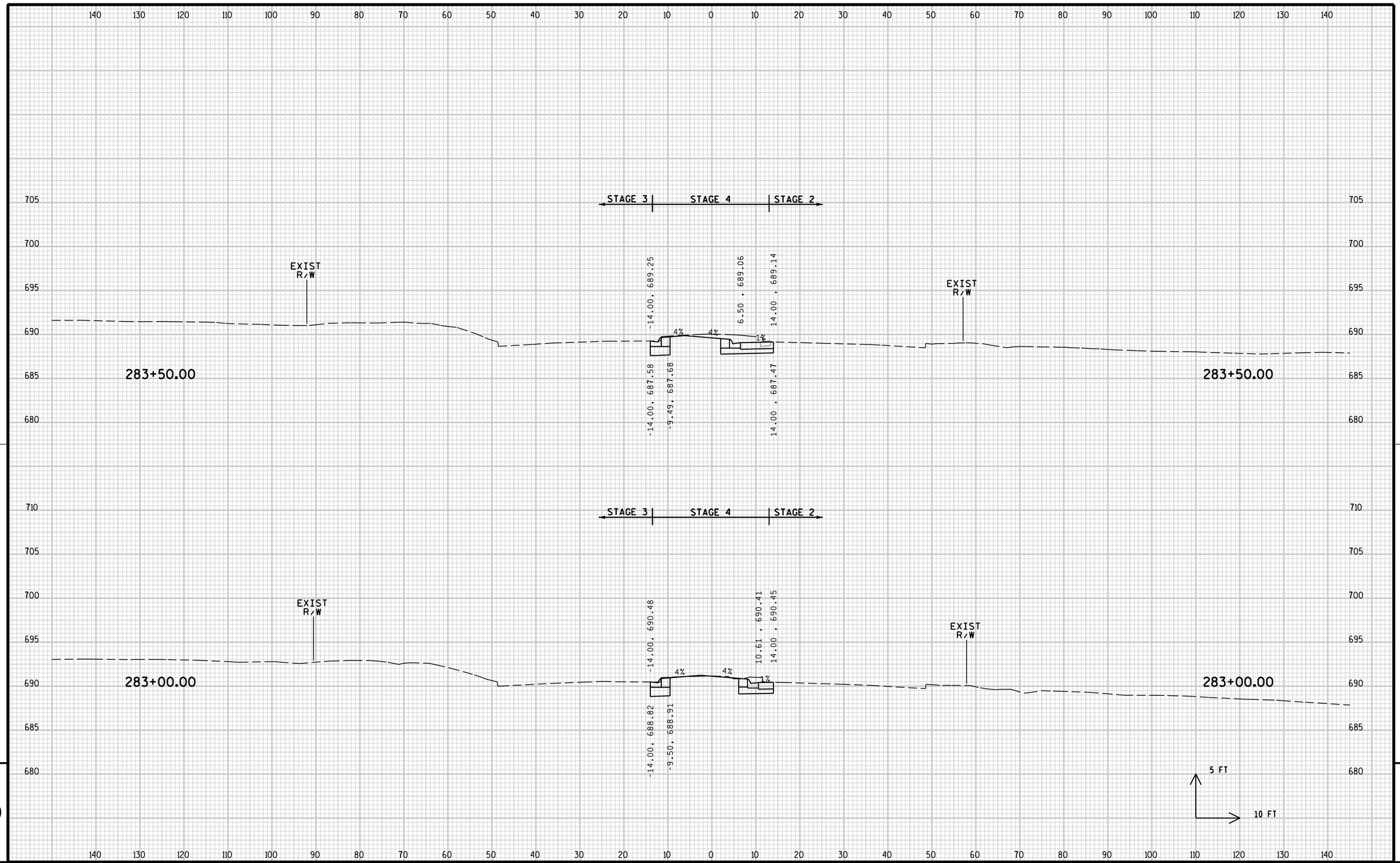
PROJECT NO: 2140-08-73	HWY: STH 181	COUNTY: MILWAUKEE	CROSS SECTIONS: MAINLINE	SHEET 1049	E

FILE NAME : s:\@sdi\051--100\089\099\micros\design\0873\090201_xs.dgn PLOT DATE : 7/31/2007 PLOT BY : $$...plotuser...$$ PLOT NAME : PLOT SCALE : $$.....plotscale.....$$ WISDOT/CADDS SHEET 21



PROJECT NO: 2140-08-73	HWY: STH 181	COUNTY: MILWAUKEE	CROSS SECTIONS: MAINLINE	SHEET 1050	E

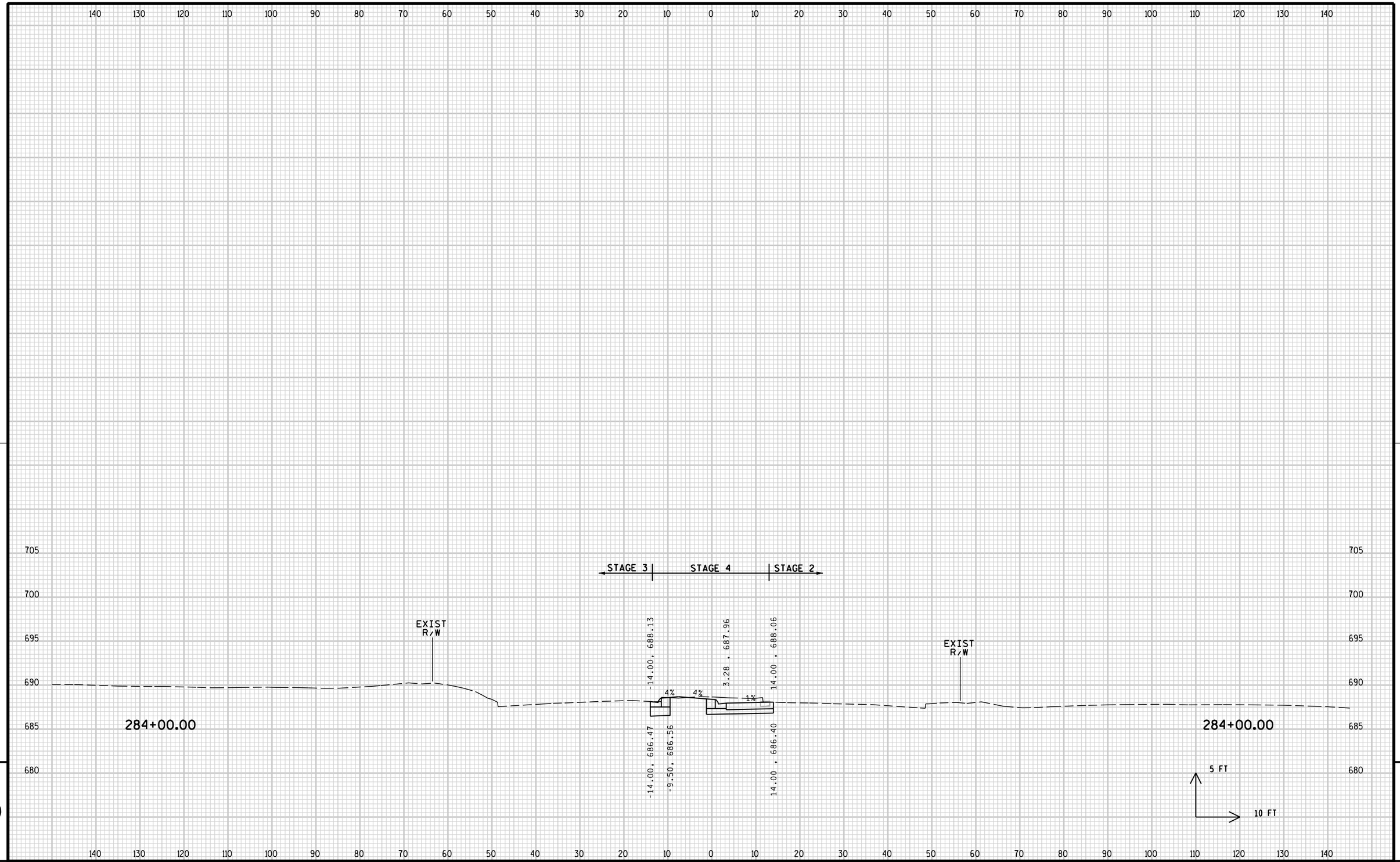
FILE NAME : s:\@sdi\051--100\089\099\micros\design\0873\090201_xs.dgn PLOT DATE : 7/31/2007 PLOT BY : $$...plotuser...$$ PLOT NAME : PLOT SCALE : $$.....plotscale.....$$ WISDOT/CADDS SHEET 21



9

9

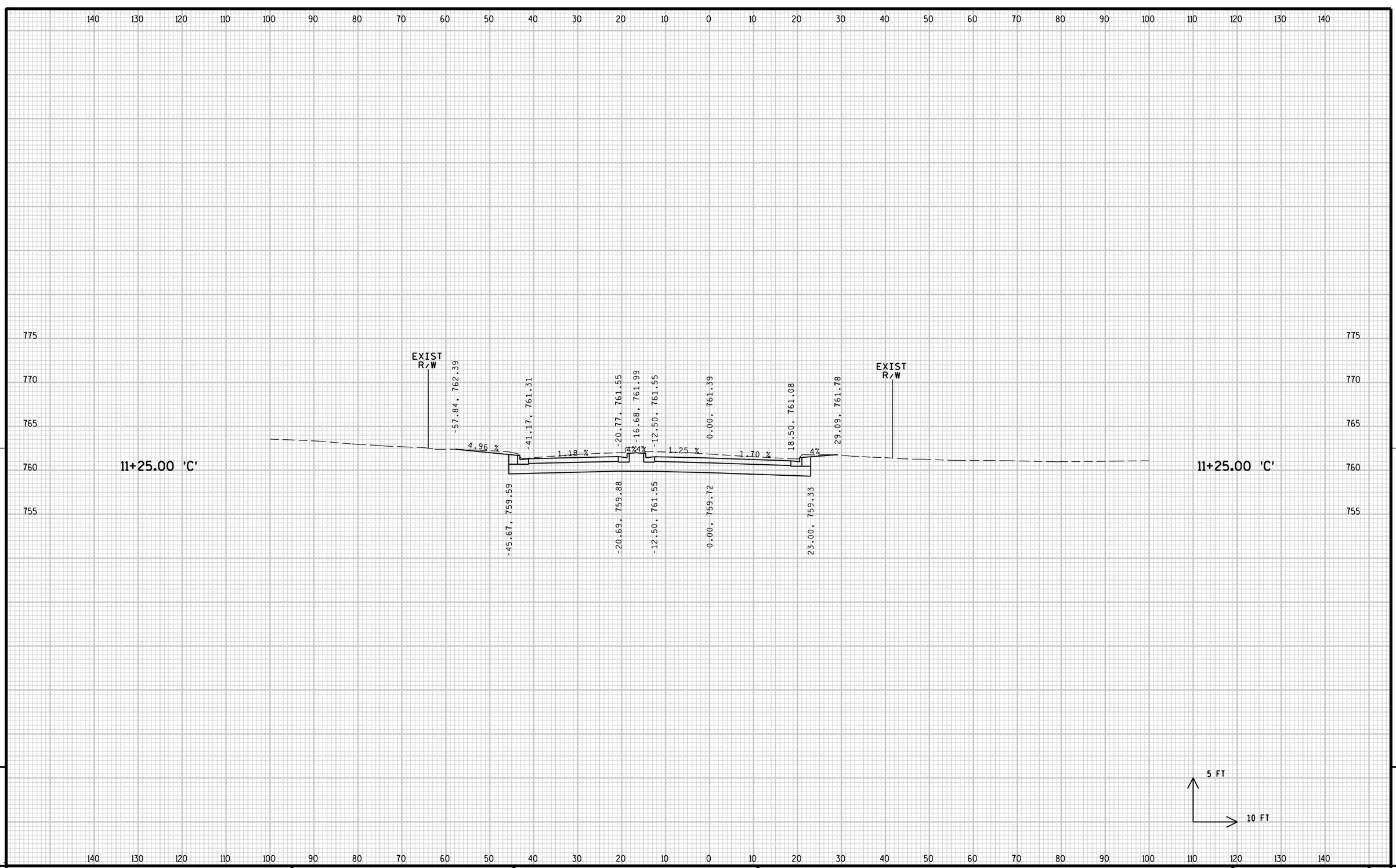
PROJECT NO:2140-08-73	HWY: STH 181	COUNTY: MILWAUKEE	CROSS SECTIONS: MAINLINE	SHEET 1051	E



9

9

PROJECT NO:2140-08-73	HWY: STH 181	COUNTY: MILWAUKEE	CROSS SECTIONS: MAINLINE	SHEET 1052	E



9

9

PROJECT NO: 2140-08-73	HWY: STH 181	COUNTY: MILWAUKEE	CROSS SECTIONS: C LINE	SHEET 1053	E

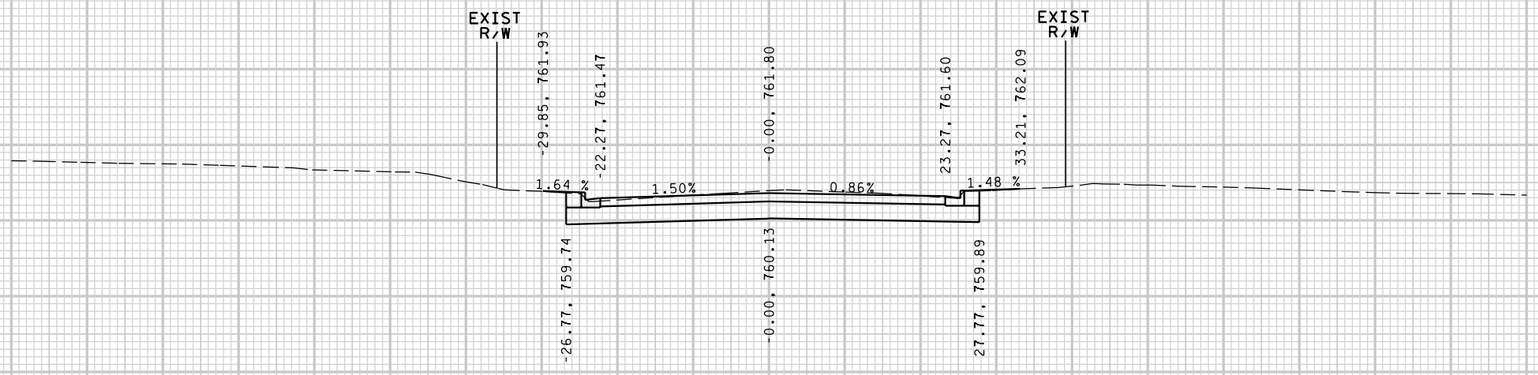
FILE NAME : s:\@SAI\051--100\089\099\Micros\DESIGN\0873\C\090201_xs.dgn PLOT DATE : 7/31/2007 PLOT BY : $$...plotuser...$$ PLOT NAME : PLOT SCALE : $$.....plotscale.....$$

WISDOT/CADDS SHEET 21

140 130 120 110 100 90 80 70 60 50 40 30 20 10 0 10 20 30 40 50 60 70 80 90 100 110 120 130 140

775
770
765
760
755

11+00.00 'C1'



11+00.00 'C1'

5 FT
10 FT

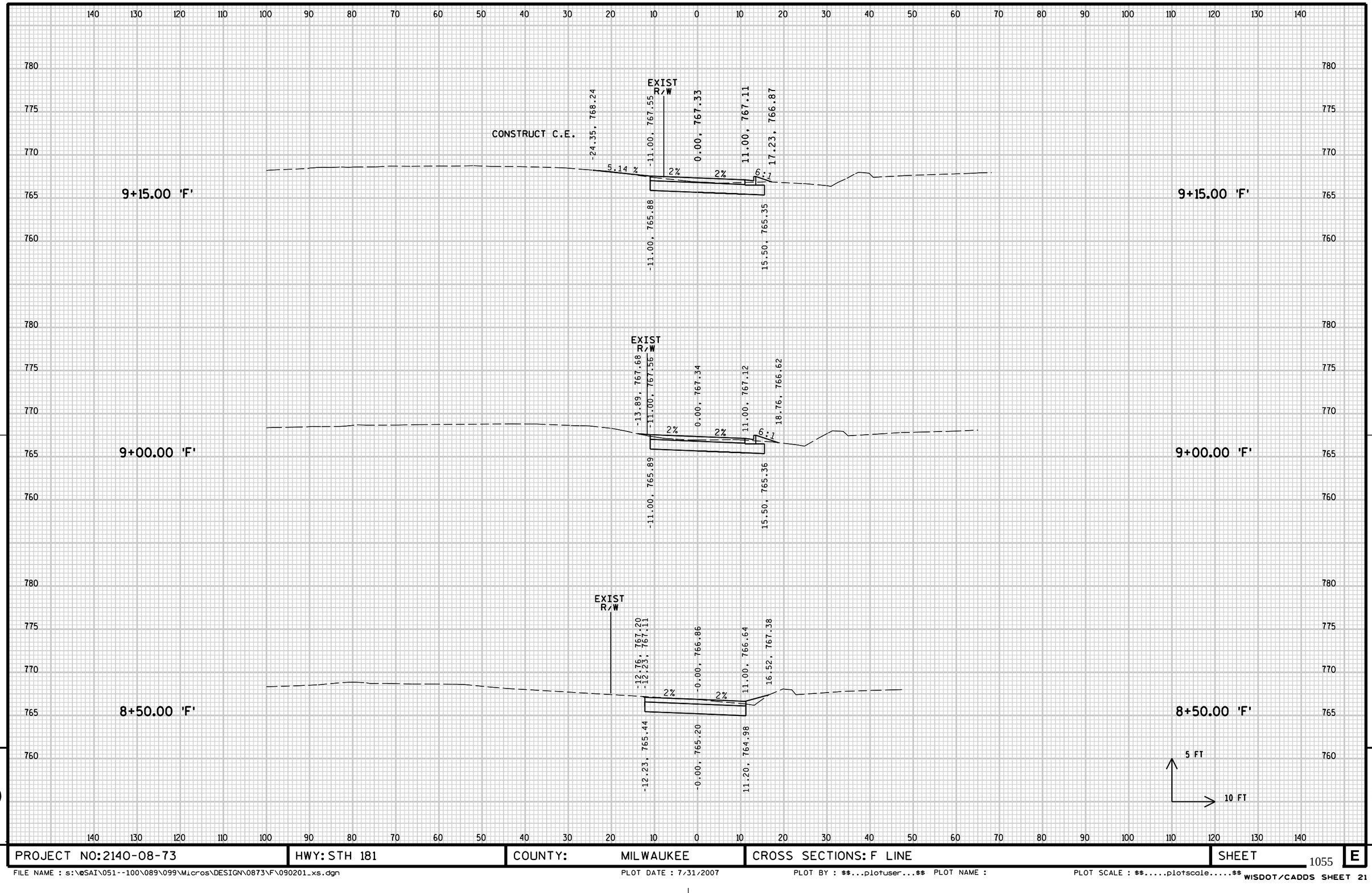
9

140 130 120 110 100 90 80 70 60 50 40 30 20 10 0 10 20 30 40 50 60 70 80 90 100 110 120 130 140

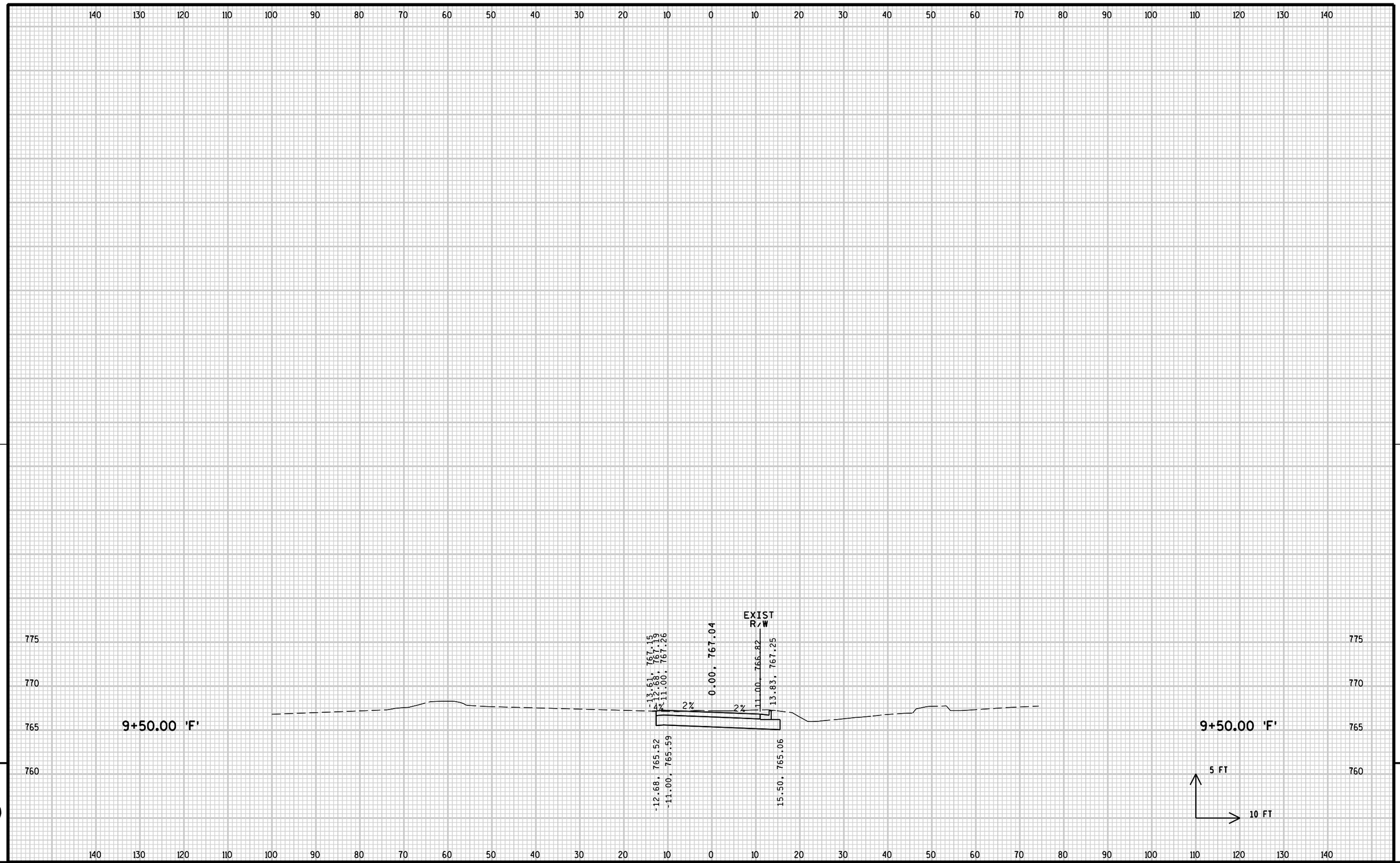
PROJECT NO: 2140-08-73	HWY: STH 181	COUNTY: MILWAUKEE	CROSS SECTIONS: C1 LINE	SHEET 1054	E

FILE NAME : s:\@SAI\051--100\089\099\Micros\DESIGN\0873\C1\090201_xs.dgn PLOT DATE : 7/31/2007 PLOT BY : $$...plotuser...$$ PLOT NAME : PLOT SCALE : $$.....plotscale.....$$

WISDOT/CADDS SHEET 21



PROJECT NO: 2140-08-73	HWY: STH 181	COUNTY: MILWAUKEE	CROSS SECTIONS: F LINE	SHEET 1055	E



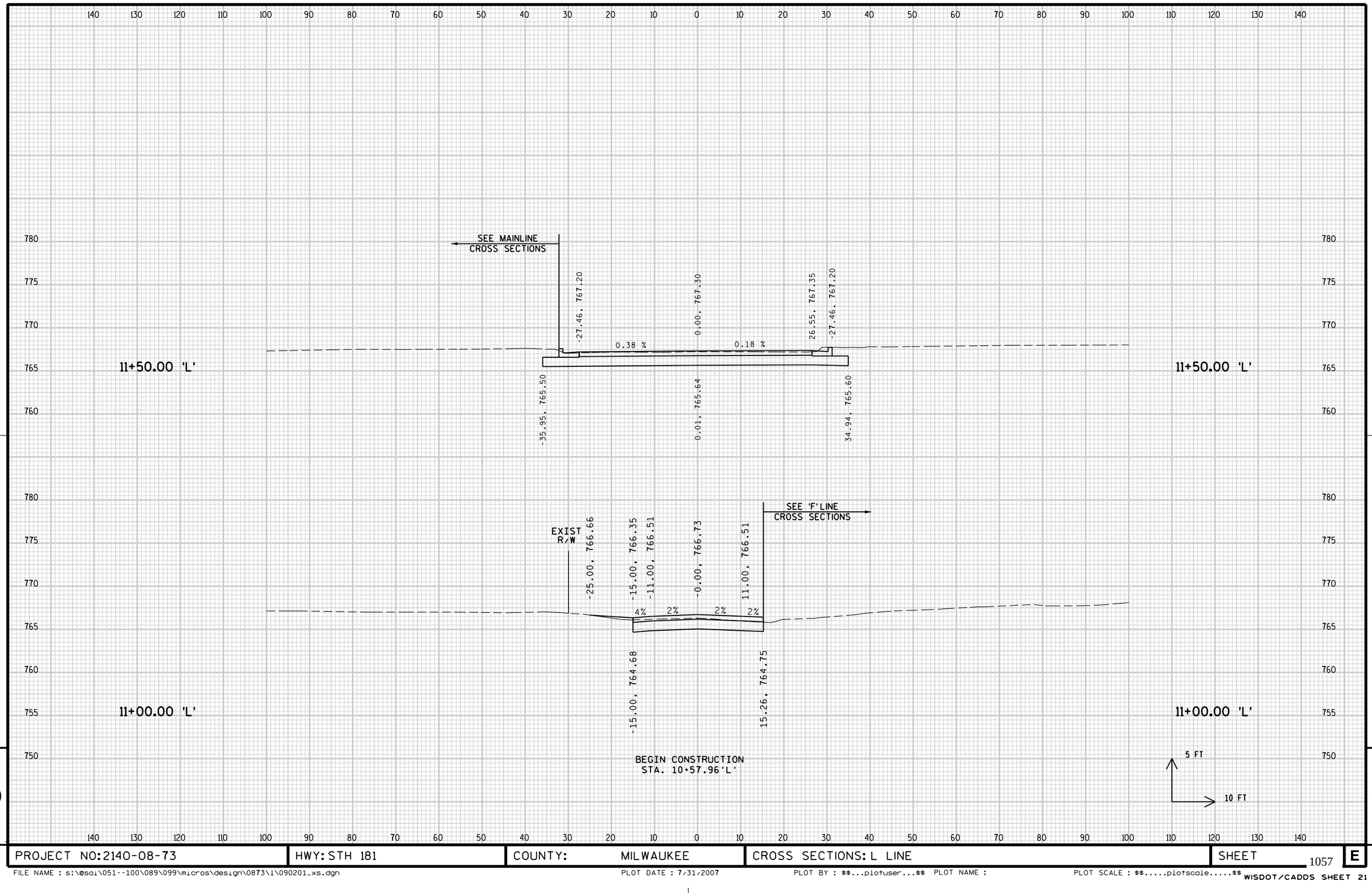
9

9

PROJECT NO:2140-08-73	HWY: STH 181	COUNTY: MILWAUKEE	CROSS SECTIONS: F LINE	SHEET	E

FILE NAME : s:\@SAI\051--100\089\099\Micros\DESIGN\0873\F\090201_xs.dgn PLOT DATE : 7/31/2007 PLOT BY : $$...plotuser...$$ PLOT NAME : PLOT SCALE : $$.....plotscale.....$$

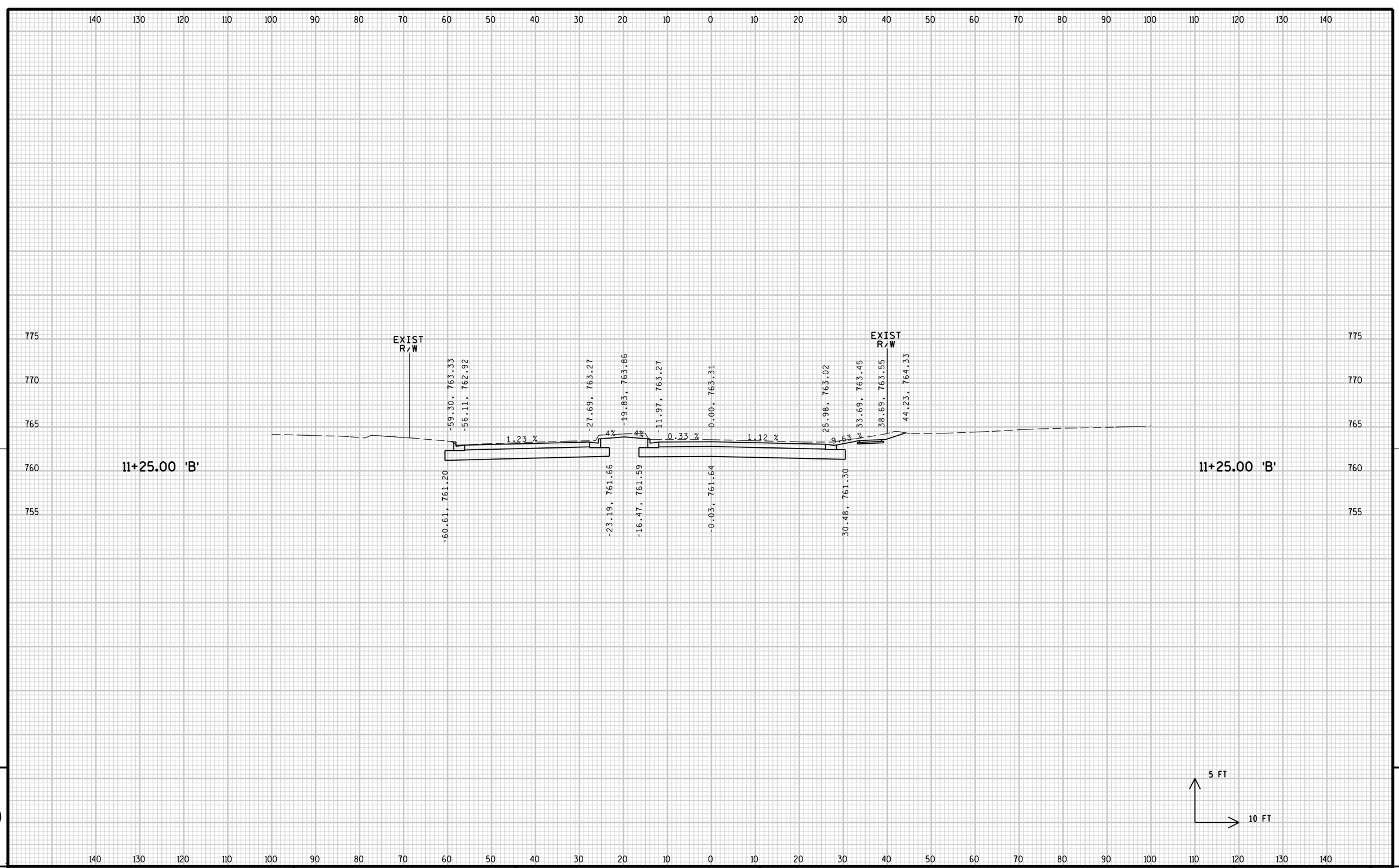
WISDOT/CADDS SHEET 21



9

9

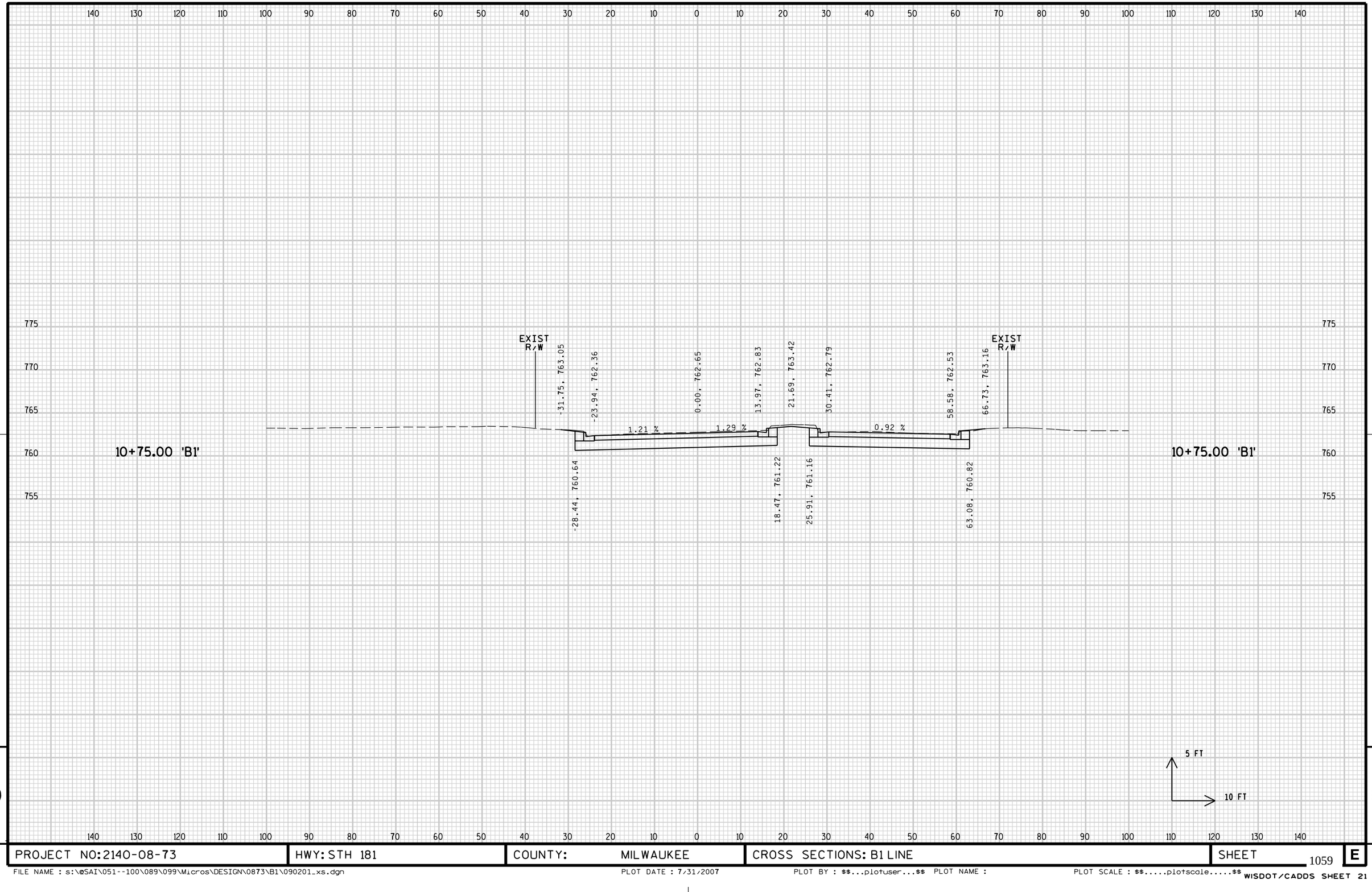
PROJECT NO: 2140-08-73	HWY: STH 181	COUNTY: MILWAUKEE	CROSS SECTIONS: L LINE	SHEET 1057	E



9

9

PROJECT NO: 2140-08-73	HWY: STH 181	COUNTY: MILWAUKEE	CROSS SECTIONS: B LINE	SHEET 1058	E



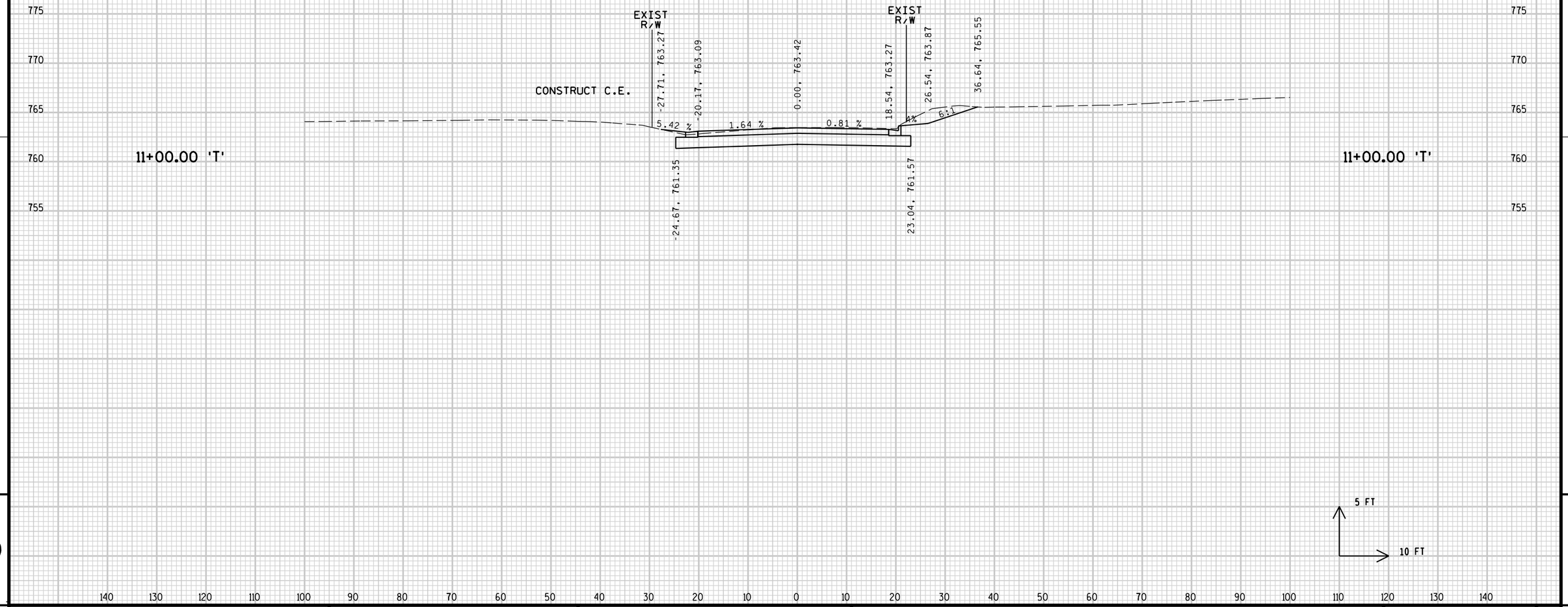
9

9

PROJECT NO: 2140-08-73	HWY: STH 181	COUNTY: MILWAUKEE	CROSS SECTIONS: B1 LINE	SHEET 1059	E

FILE NAME : s:\@SAI\051--100\089\099\Micros\DESIGN\0873\B1\090201_xs.dgn PLOT DATE : 7/31/2007 PLOT BY : $$...plotuser...$$ PLOT NAME : PLOT SCALE : $$.....plotscale.....$$

WISDOT/CADDS SHEET 21



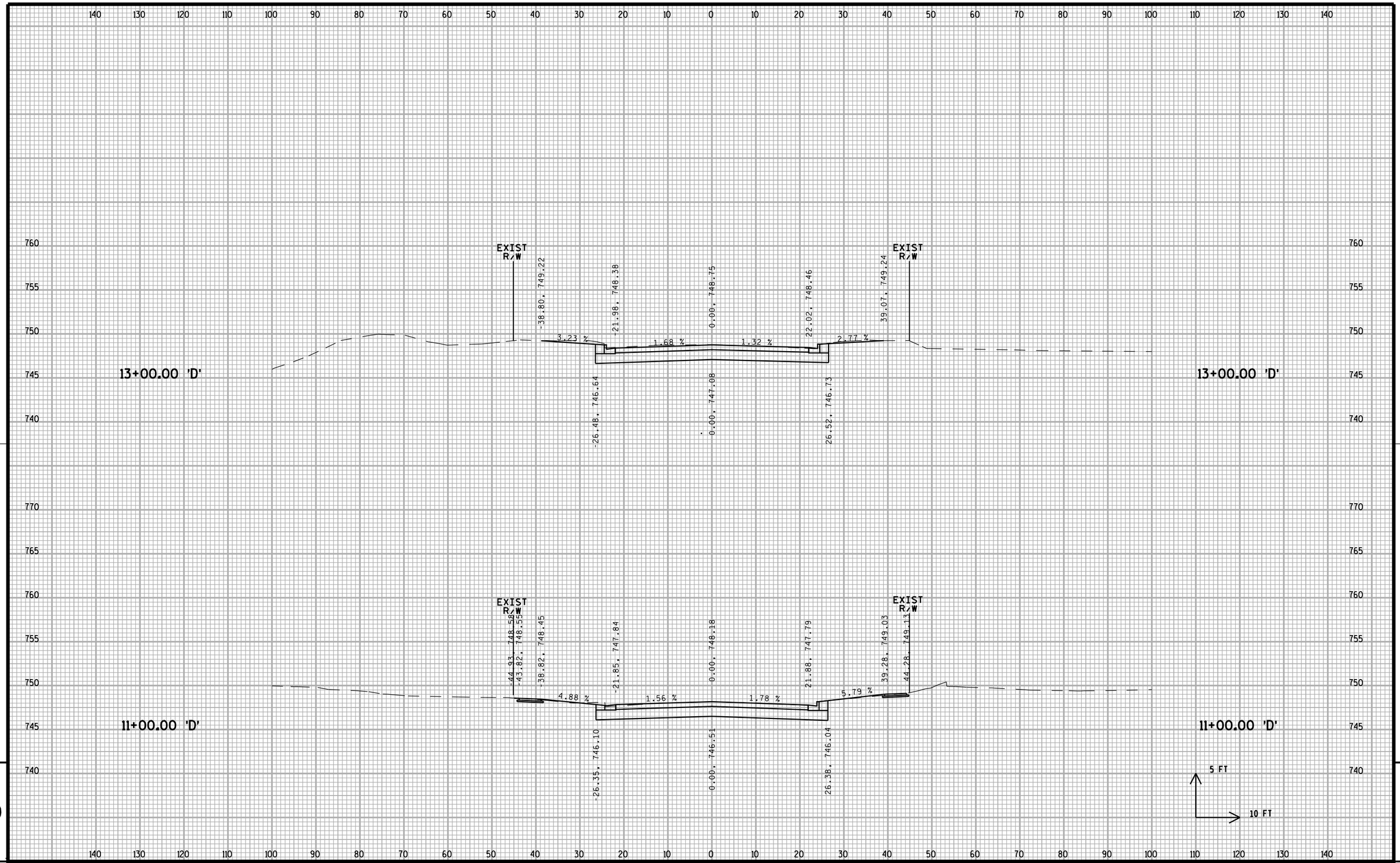
9

9

PROJECT NO: 2140-08-73	HWY: STH 181	COUNTY: MILWAUKEE	CROSS SECTIONS: T LINE	SHEET 1060	E

FILE NAME : s:\@SAI\051--100\089\099\Micros\DESIGN\0873\T\090201_xs.dgn PLOT DATE : 7/31/2007 PLOT BY : $$...plotuser...$$ PLOT NAME : PLOT SCALE : $$.....plotscale.....$$

WISDOT/CADDS SHEET 21



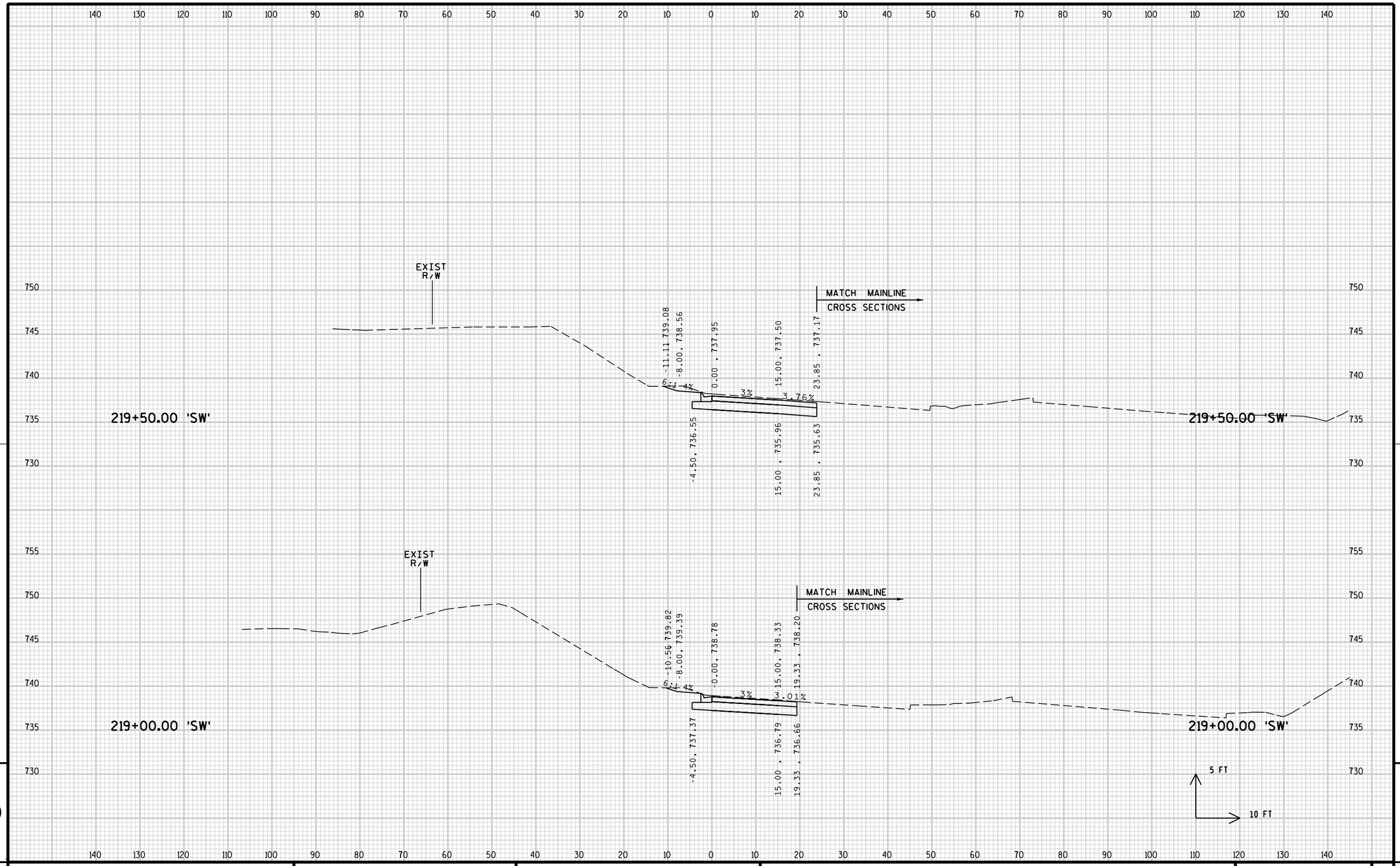
9

9

PROJECT NO: 2140-08-73	HWY: STH 181	COUNTY: MILWAUKEE	CROSS SECTIONS: D LINE	SHEET 1061 E

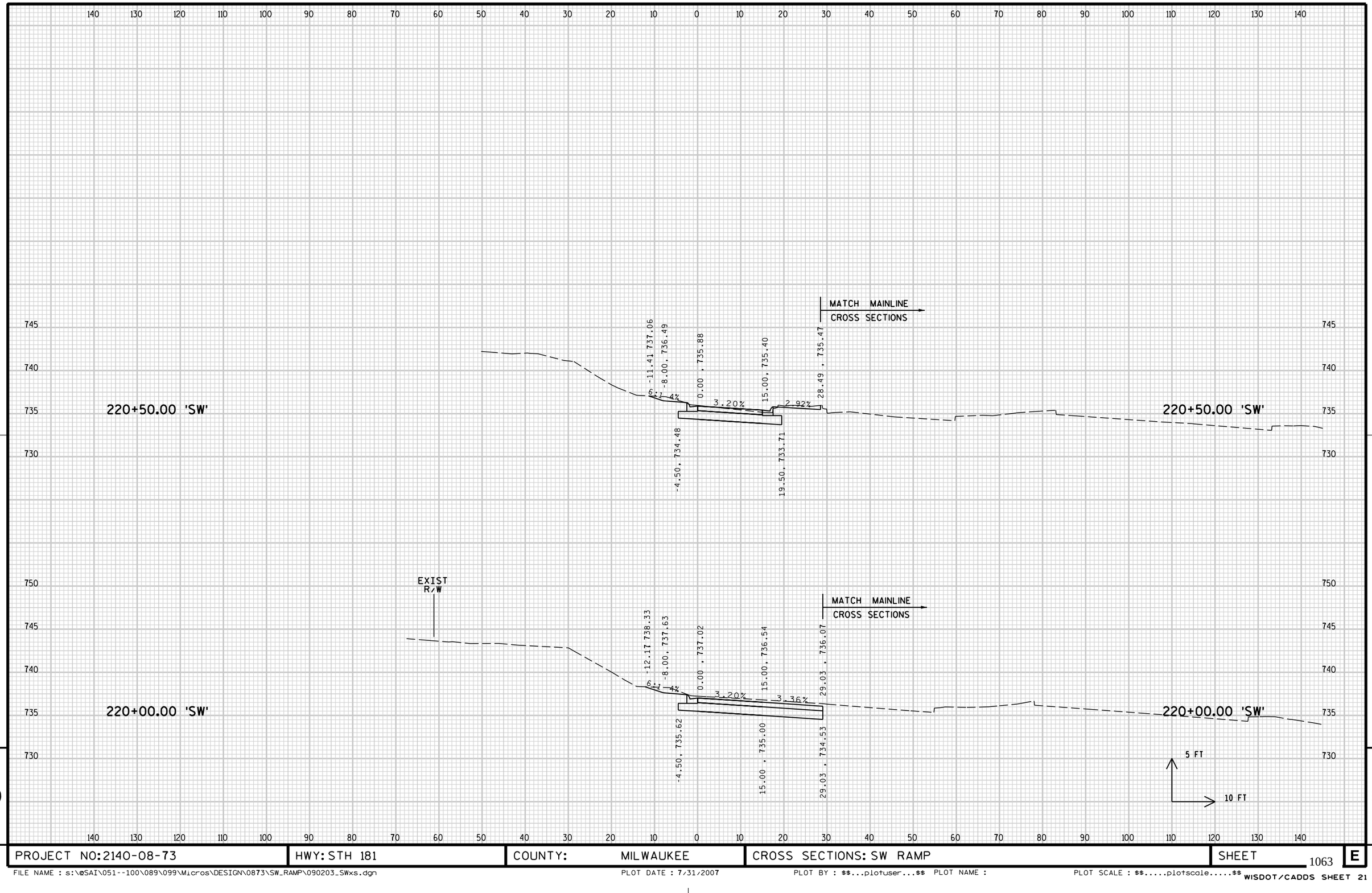
FILE NAME : s:\@sai\051--100\089\179\Micros\DESIGN\ALTERNATIVE 1\PLRF\0103_alt1B_a.dgn PLOT DATE : 7/31/2007 PLOT BY : _username_ PLOT NAME : PLOT SCALE : $$.....plotscale.....$$

WISDOT/CADDS SHEET 21



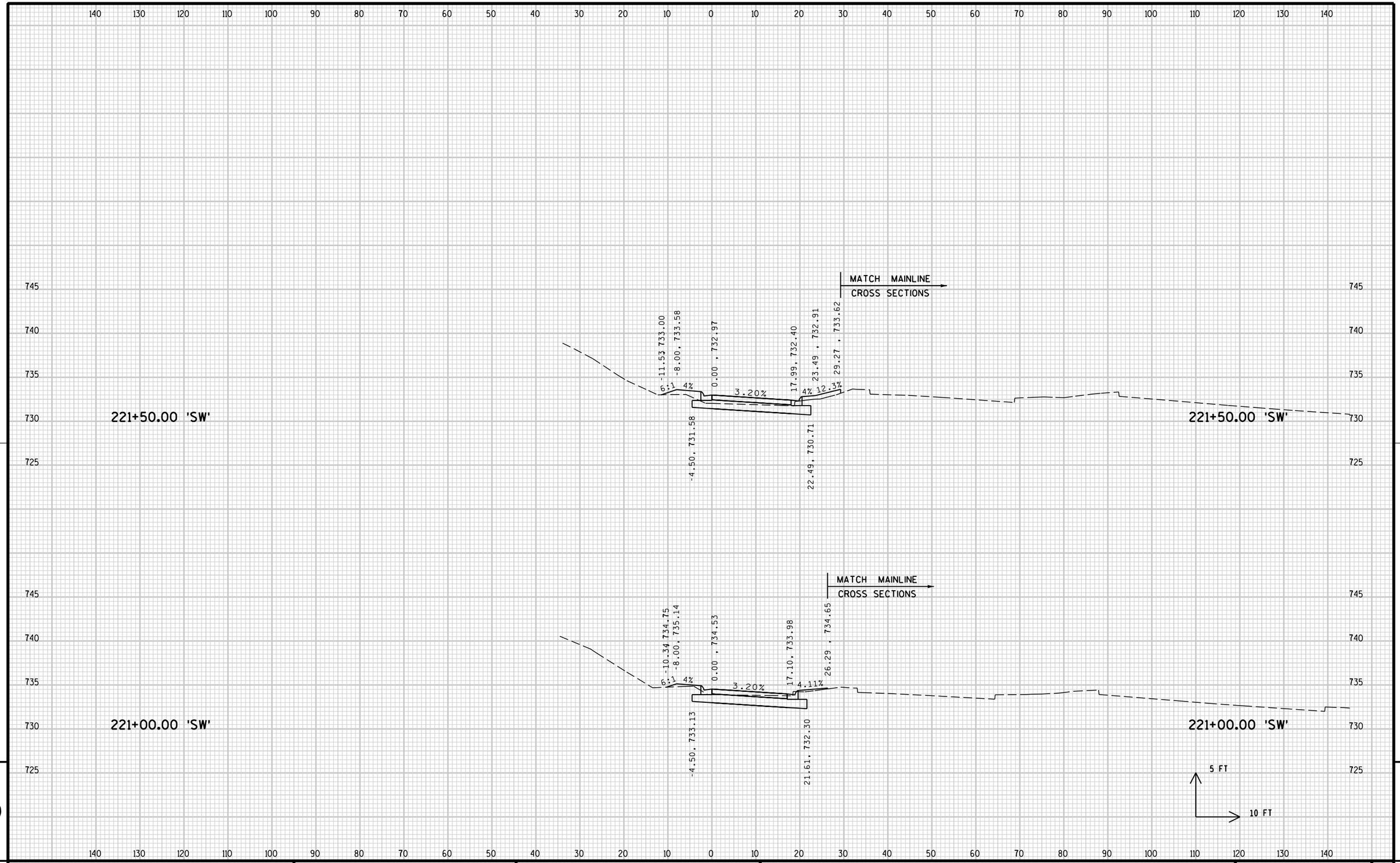
PROJECT NO: 2140-08-73	HWY: STH 181	COUNTY: MILWAUKEE	CROSS SECTIONS: SW RAMP	SHEET	E

FILE NAME : s:\@SAI\051--100\089\099\Micros\DESIGN\0873\SW_RAMP\090203_SWxs.dgn PLOT DATE : 7/31/2007 PLOT BY : $$...plotuser...$$ PLOT NAME : PLOT SCALE : $$.....plotscale.....$$ WISDOT/CADDS SHEET 21



PROJECT NO: 2140-08-73	HWY: STH 181	COUNTY: MILWAUKEE	CROSS SECTIONS: SW RAMP	SHEET	E

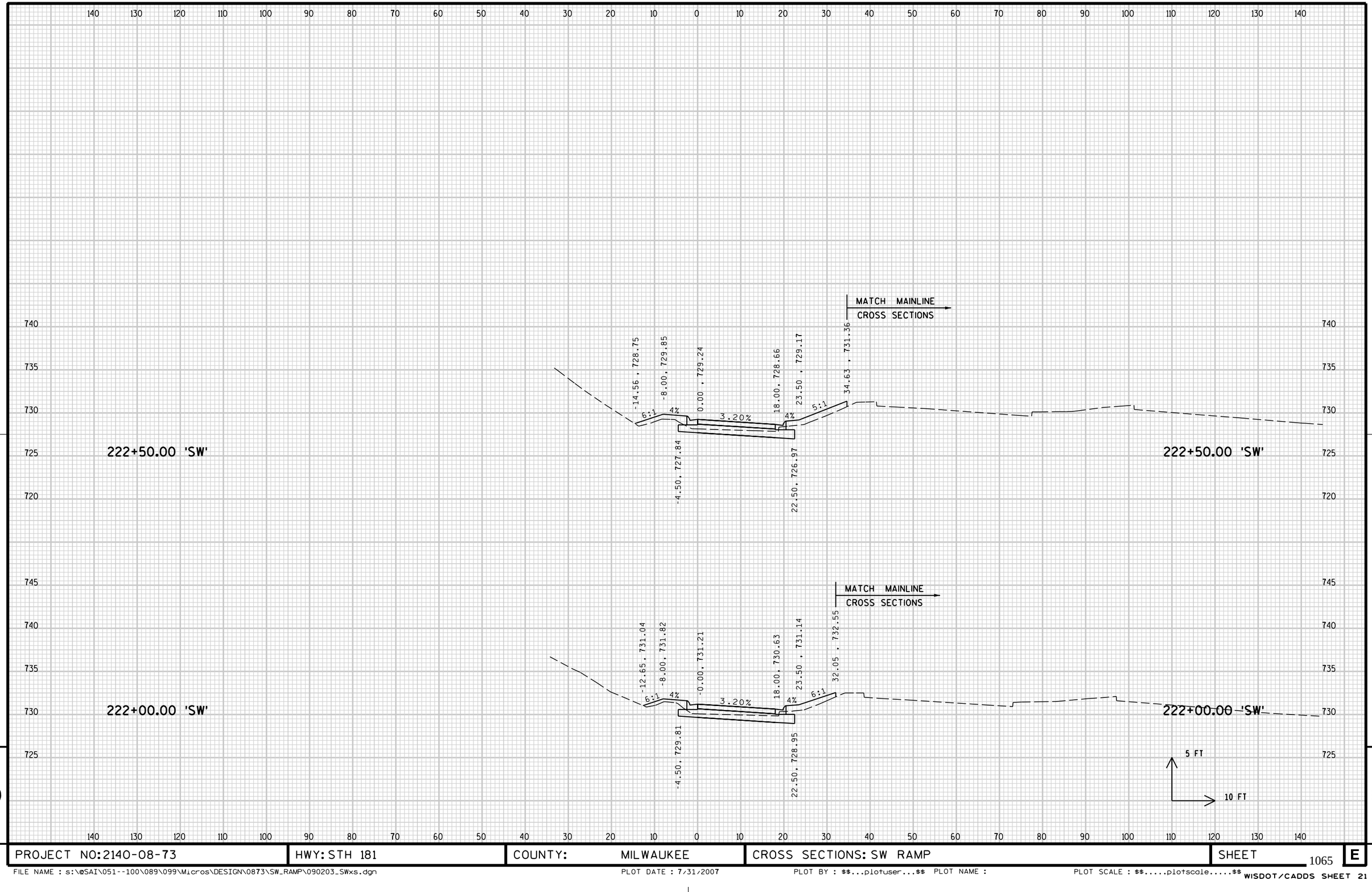
FILE NAME : s:\@SAI\051--100\089\099\Micros\DESIGN\0873\SW_RAMP\090203_SWxs.dgn PLOT DATE : 7/31/2007 PLOT BY : $$...plotuser...$$ PLOT NAME : PLOT SCALE : $$.....plotscale.....$$ WISDOT/CADDS SHEET 21



9

9

PROJECT NO: 2140-08-73	HWY: STH 181	COUNTY: MILWAUKEE	CROSS SECTIONS: SW RAMP	SHEET 1064 E



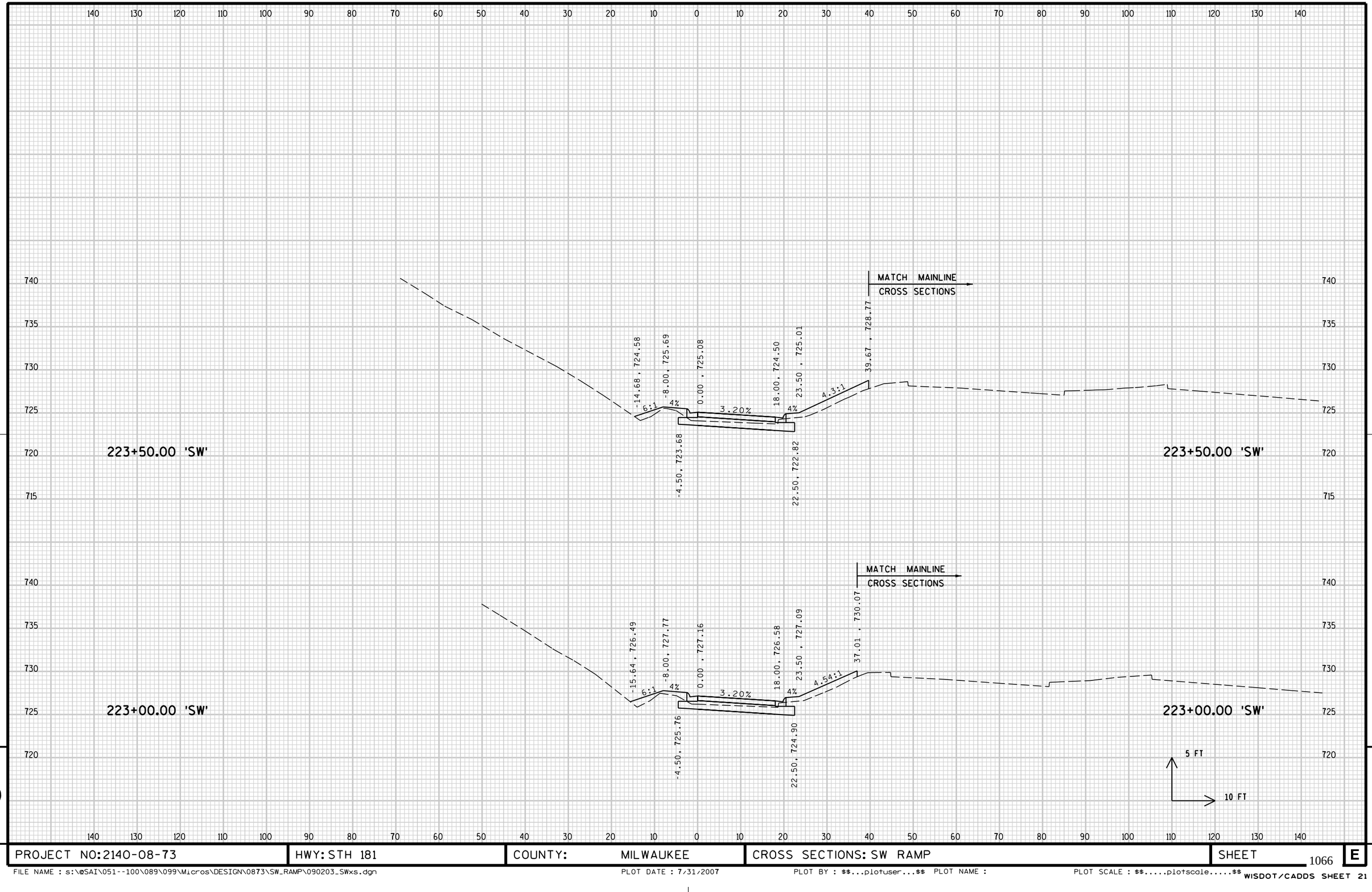
9

9

PROJECT NO: 2140-08-73	HWY: STH 181	COUNTY: MILWAUKEE	CROSS SECTIONS: SW RAMP	SHEET 1065	E

FILE NAME : s:\@SAI\051--100\089\099\Micros\DESIGN\0873\SW_RAMP\090203_SWxs.dgn PLOT DATE : 7/31/2007 PLOT BY : $$...plotuser...$$ PLOT NAME : PLOT SCALE : $$.....plotscale.....$$

WISDOT/CADDS SHEET 21



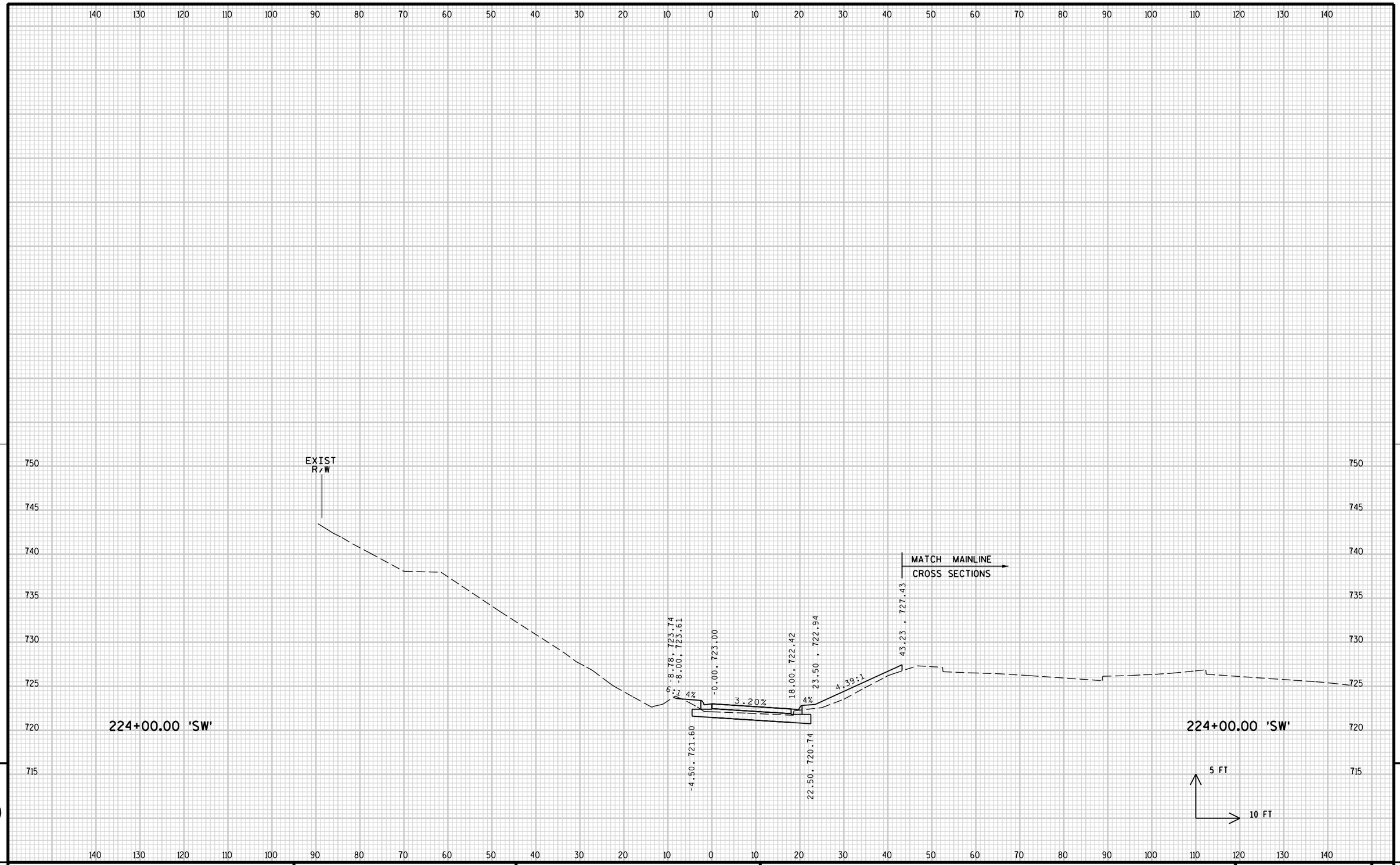
9

9

PROJECT NO: 2140-08-73	HWY: STH 181	COUNTY: MILWAUKEE	CROSS SECTIONS: SW RAMP	SHEET	E

FILE NAME : s:\@SAI\051--100\089\099\Micros\DESIGN\0873\SW_RAMP\090203_SWxs.dgn PLOT DATE : 7/31/2007 PLOT BY : $$...plotuser...$$ PLOT NAME : PLOT SCALE : $$.....plotscale.....$$

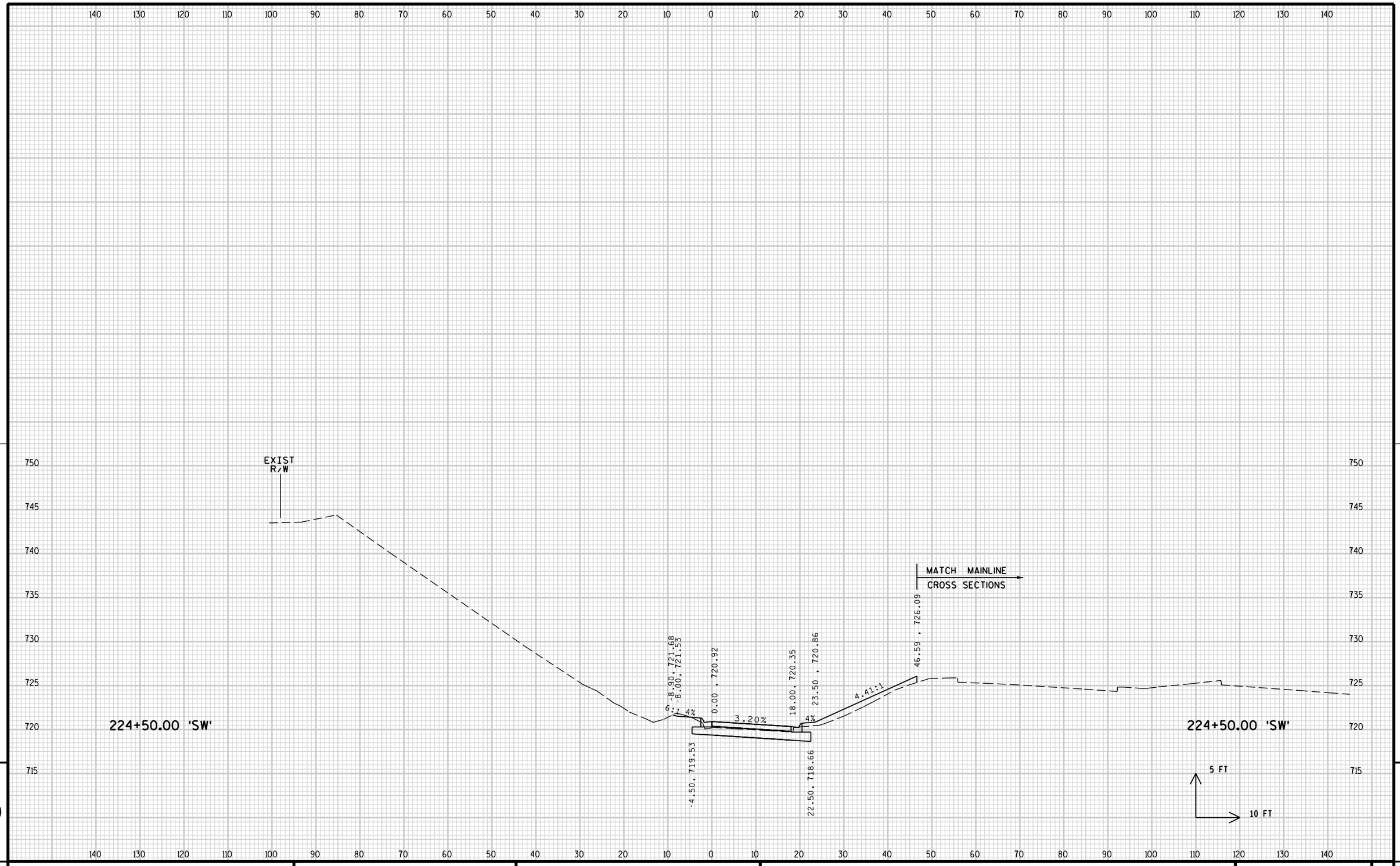
WISDOT/CADDS SHEET 21



9

9

PROJECT NO: 2140-08-73	HWY: STH 181	COUNTY: MILWAUKEE	CROSS SECTIONS: SW RAMP	SHEET 1067	E

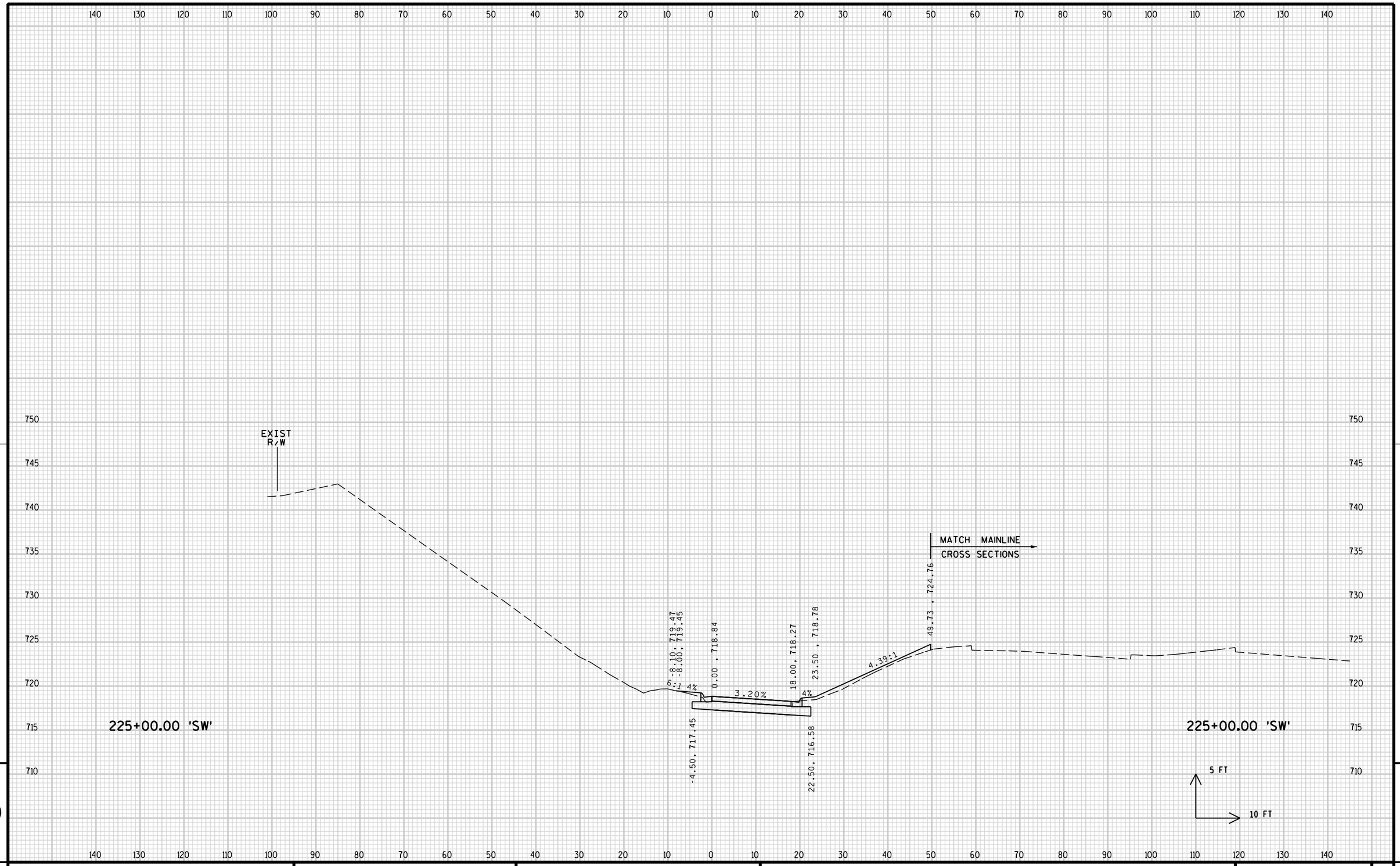


9

9

PROJECT NO: 2140-08-73	HWY: STH 181	COUNTY: MILWAUKEE	CROSS SECTIONS: SW RAMP	SHEET	E

FILE NAME : s:\@SAI\051--100\089\099\Micros\DESIGN\0873\SW_RAMP\090203_SWxs.dgn PLOT DATE : 7/31/2007 PLOT BY : $$...plotuser...$$ PLOT NAME : PLOT SCALE : $$.....plotscale.....$$ WISDOT/CADDS SHEET 21

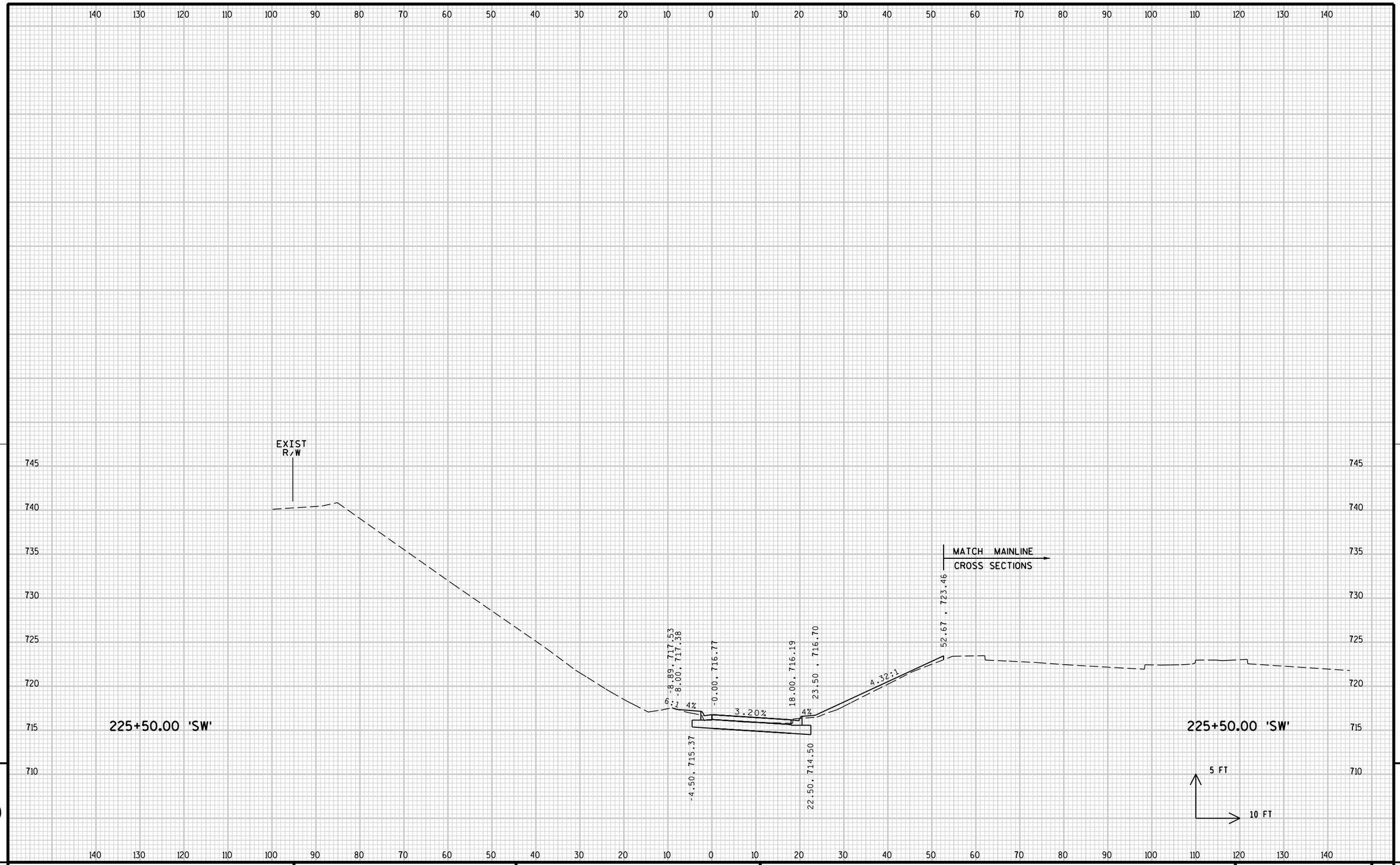


9

9

PROJECT NO: 2140-08-73	HWY: STH 181	COUNTY: MILWAUKEE	CROSS SECTIONS: SW RAMP	SHEET 1069	E

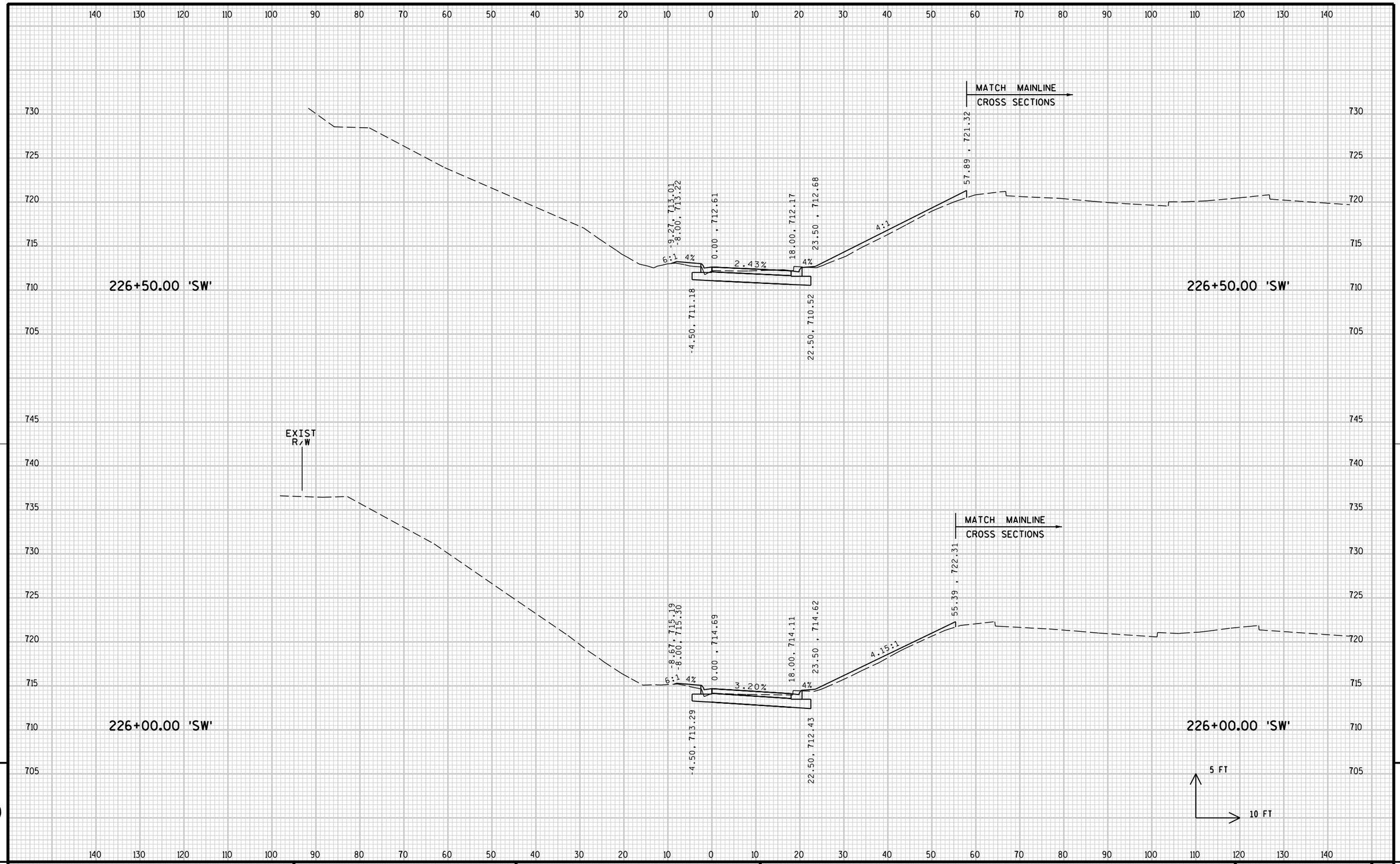
FILE NAME : s:\@SAI\051--100\089\099\Micros\DESIGN\0873\SW_RAMP\090203_SWxs.dgn PLOT DATE : 7/31/2007 PLOT BY : $$...plotuser...$$ PLOT NAME : PLOT SCALE : $$.....plotscale.....$$



9

9

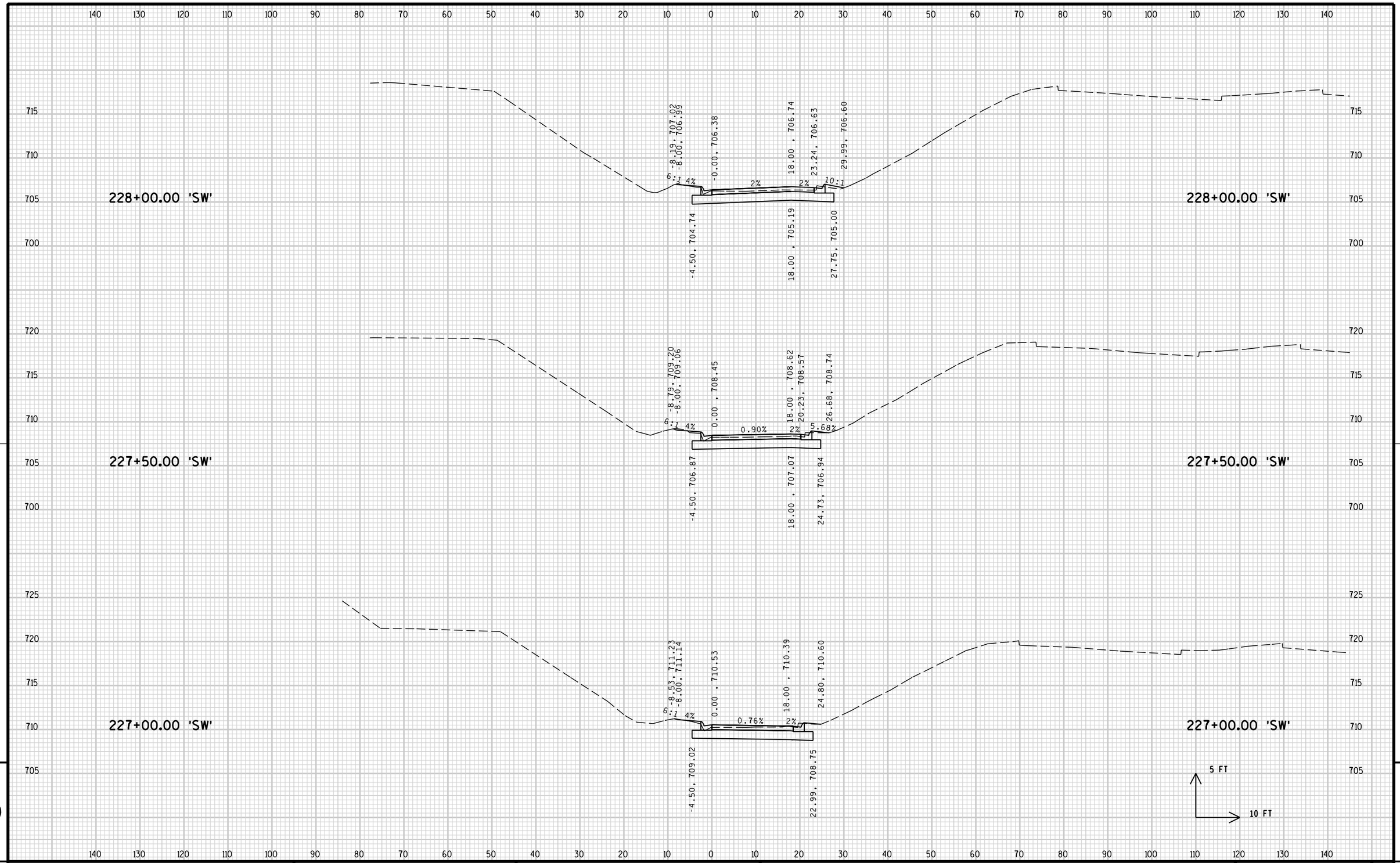
PROJECT NO: 2140-08-73	HWY: STH 181	COUNTY: MILWAUKEE	CROSS SECTIONS: SW RAMP	SHEET 1070	E



PROJECT NO: 2140-08-73	HWY: STH 181	COUNTY: MILWAUKEE	CROSS SECTIONS: SW RAMP	SHEET 1071	E

FILE NAME : s:\@SAI\051--100\089\099\Micros\DESIGN\0873\SW_RAMP\090203_SWxs.dgn PLOT DATE : 7/31/2007 PLOT BY : $$...plotuser...$$ PLOT NAME : PLOT SCALE : $$.....plotscale.....$$

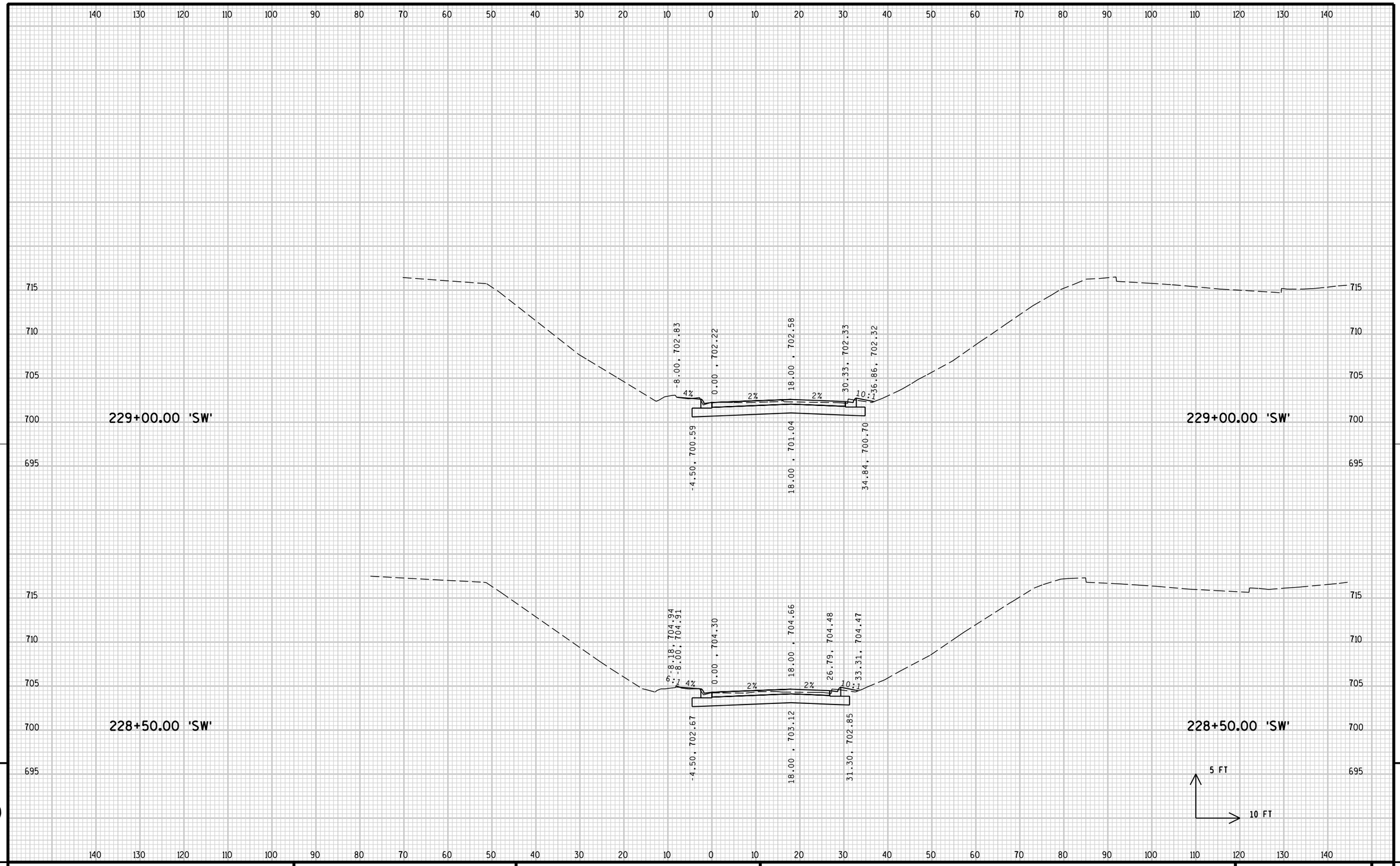
WISDOT/CADDS SHEET 21



9

9

PROJECT NO: 2140-08-73	HWY: STH 181	COUNTY: MILWAUKEE	CROSS SECTIONS: SW RAMP	SHEET 1072	E

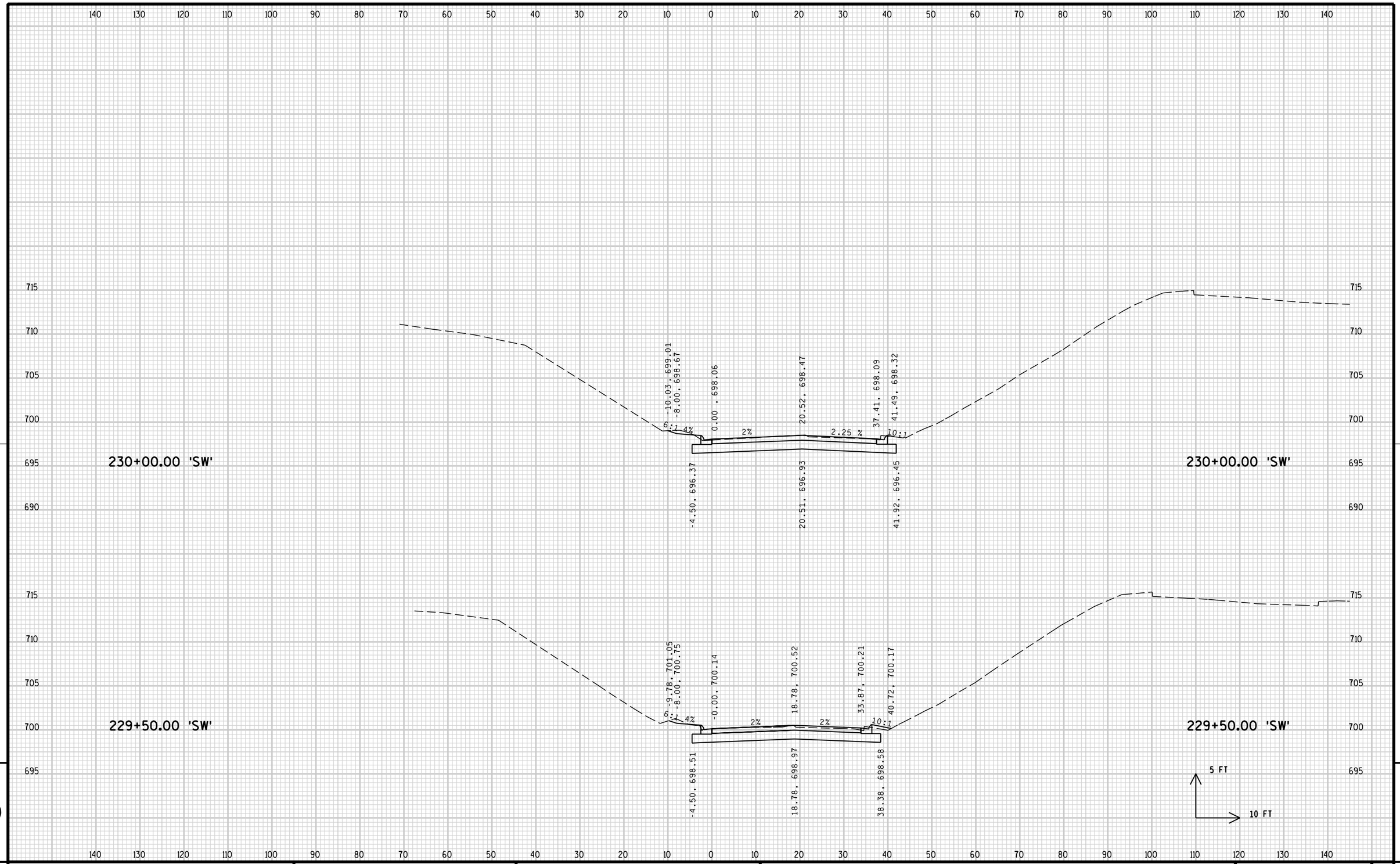


9

9

PROJECT NO: 2140-08-73	HWY: STH 181	COUNTY: MILWAUKEE	CROSS SECTIONS: SW RAMP	SHEET 1073	E

FILE NAME : s:\@SAI\051--100\089\099\Micros\DESIGN\0873\SW_RAMP\090203_SWxs.dgn PLOT DATE : 7/31/2007 PLOT BY : $$...plotuser...$$ PLOT NAME : PLOT SCALE : $$.....plotscale.....$$ WISDOT/CADDS SHEET 21



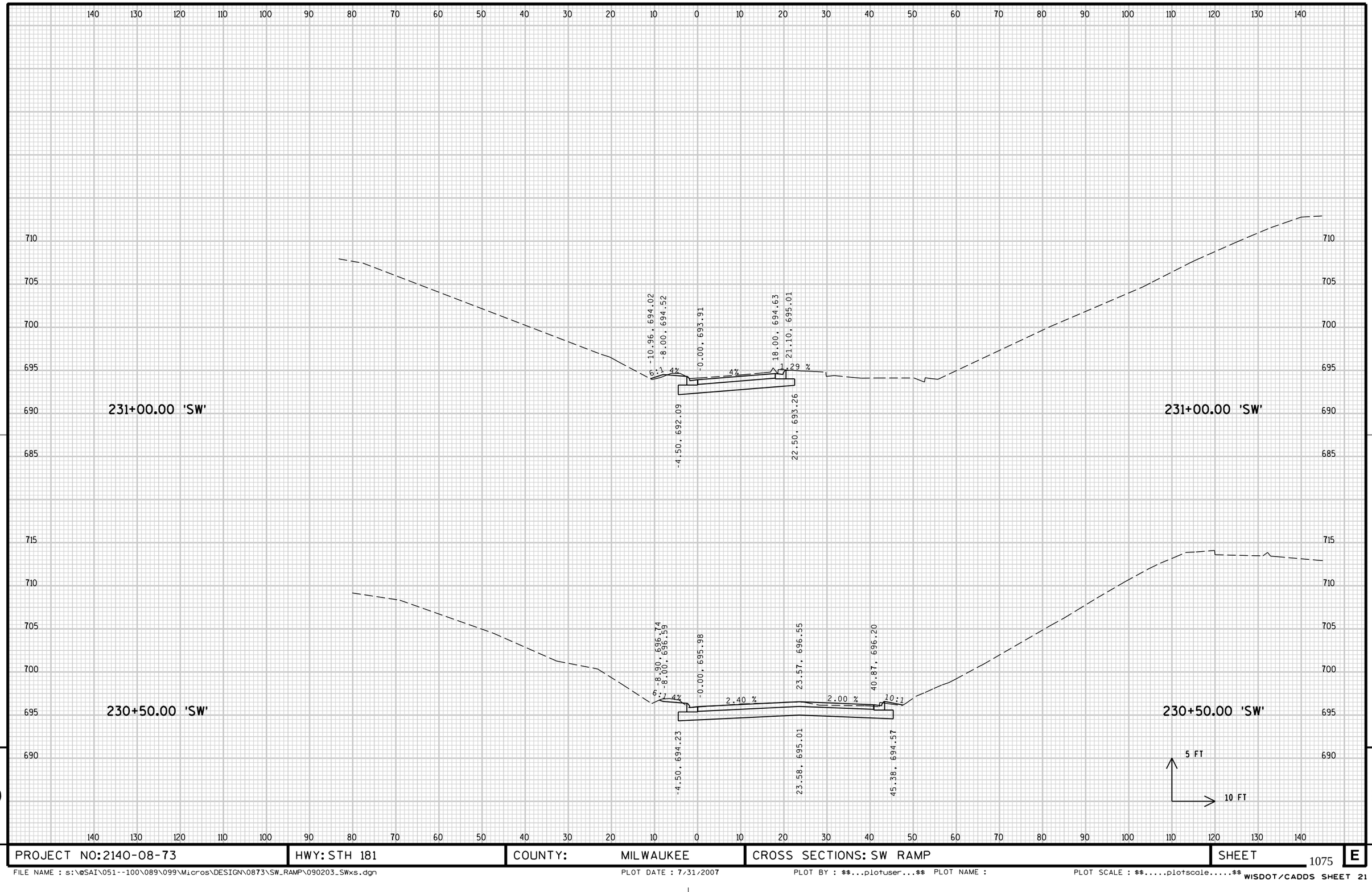
9

9

PROJECT NO: 2140-08-73	HWY: STH 181	COUNTY: MILWAUKEE	CROSS SECTIONS: SW RAMP	SHEET	E

FILE NAME : s:\@SAI\051--100\089\099\Micros\DESIGN\0873\SW_RAMP\090203_SWxs.dgn PLOT DATE : 7/31/2007 PLOT BY : $$...plotuser...$$ PLOT NAME : PLOT SCALE : $$.....plotscale.....$$

WISDOT/CADDS SHEET 21



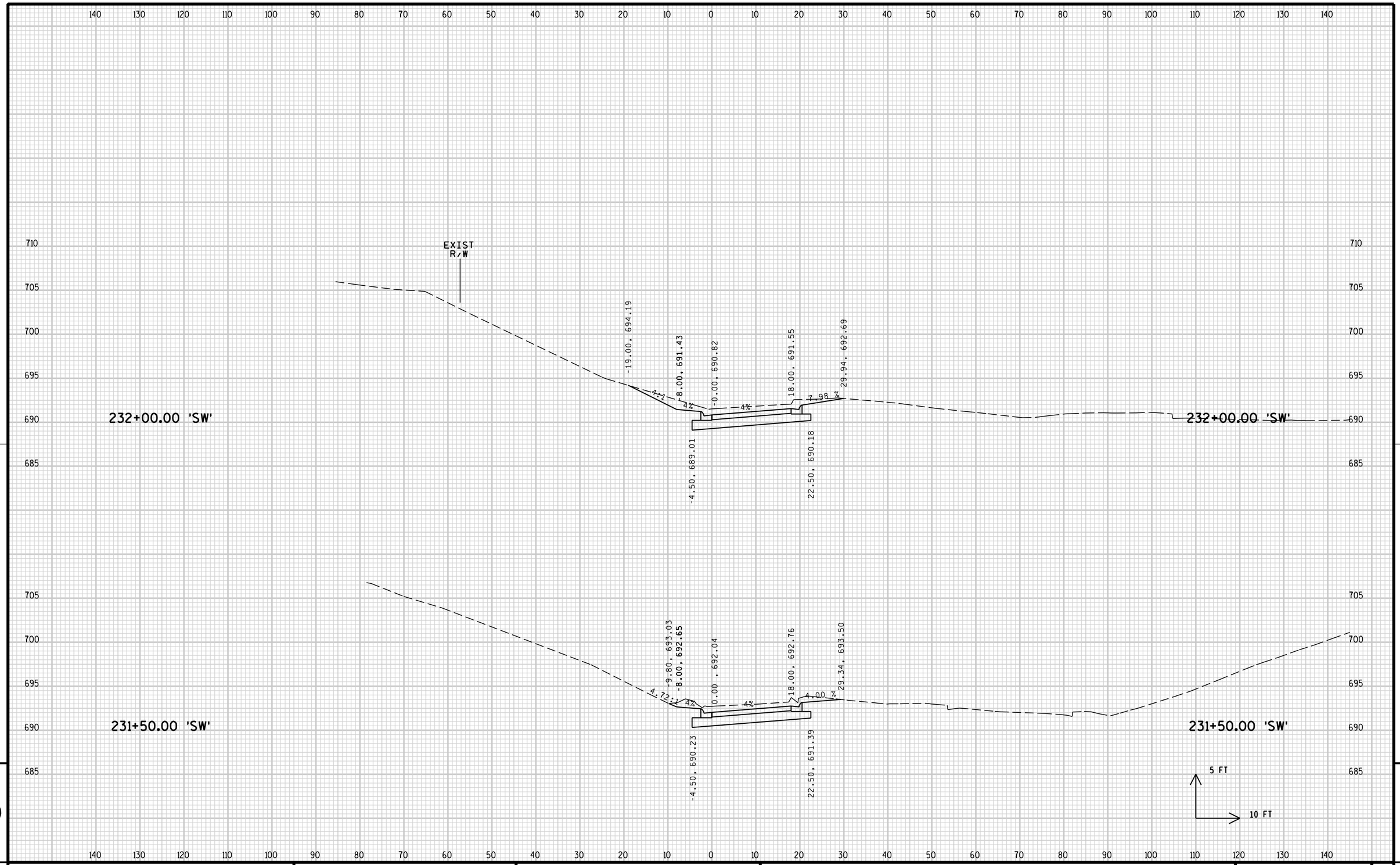
9

9

PROJECT NO: 2140-08-73	HWY: STH 181	COUNTY: MILWAUKEE	CROSS SECTIONS: SW RAMP	SHEET 1075	E

FILE NAME : s:\@SAI\051--100\089\099\Micros\DESIGN\0873\SW_RAMP\090203_SWxs.dgn PLOT DATE : 7/31/2007 PLOT BY : $$...plotuser...$$ PLOT NAME : PLOT SCALE : $$.....plotscale.....$$

WISDOT/CADDS SHEET 21



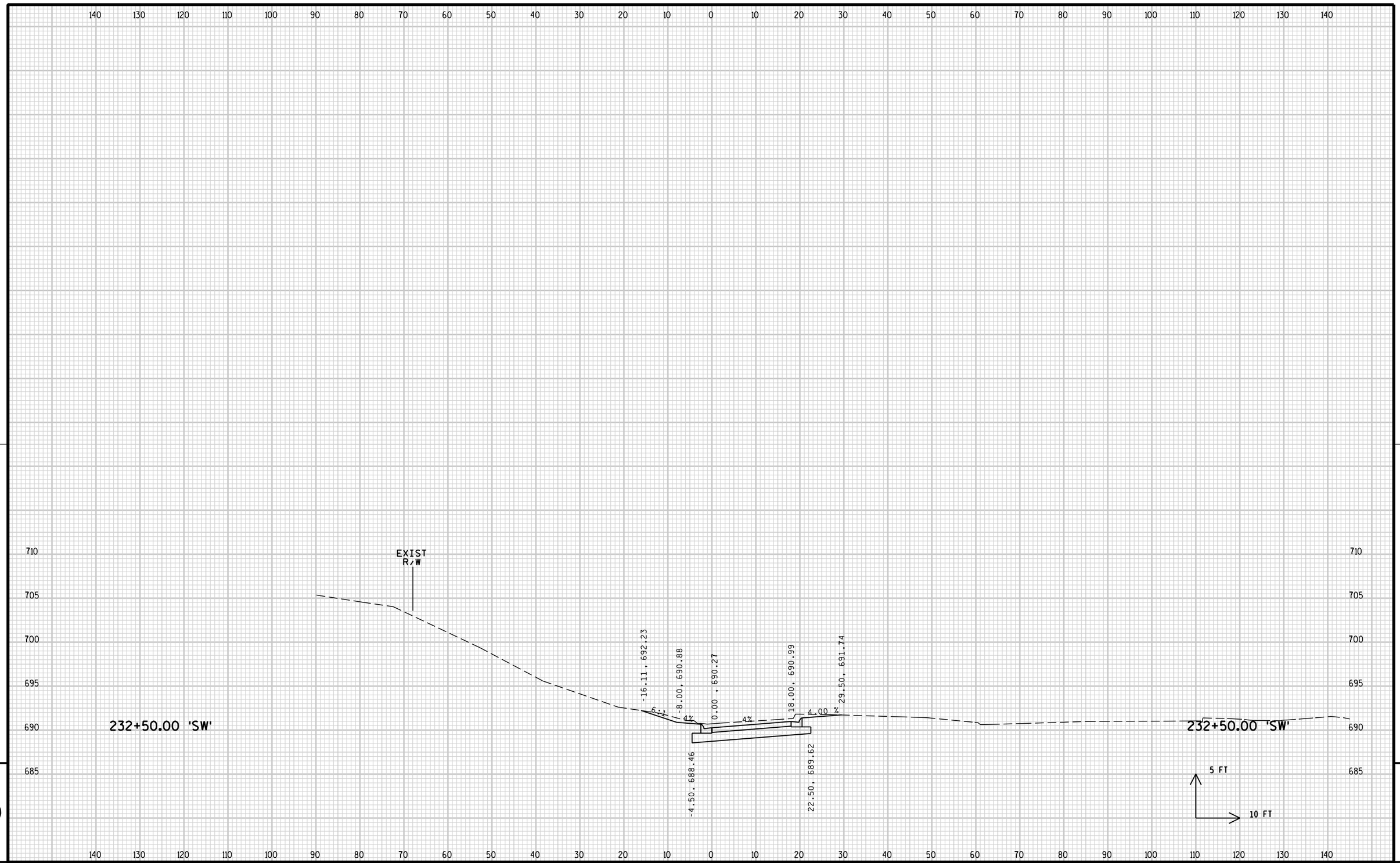
9

9

PROJECT NO: 2140-08-73	HWY: STH 181	COUNTY: MILWAUKEE	CROSS SECTIONS: SW RAMP	SHEET 1076	E

FILE NAME : s:\@SAI\051--100\089\099\Micros\DESIGN\0873\SW_RAMP\090203_SWxs.dgn PLOT DATE : 7/31/2007 PLOT BY : $$...plotuser...$$ PLOT NAME : PLOT SCALE : $$.....plotscale.....$$

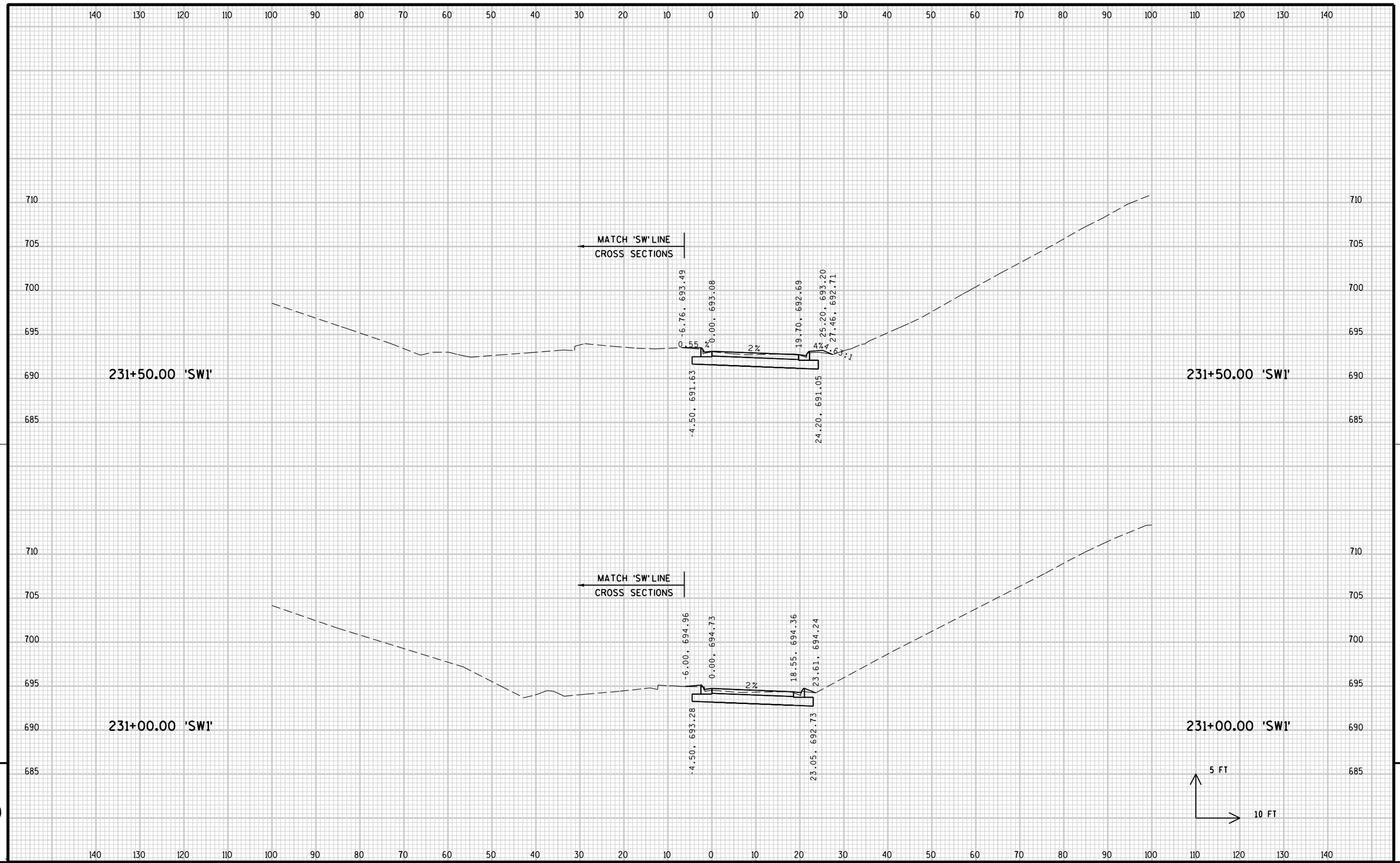
WISDOT/CADDS SHEET 21



PROJECT NO: 2140-08-73	HWY: STH 181	COUNTY: MILWAUKEE	CROSS SECTIONS: SW RAMP	SHEET 1077 E

FILE NAME : s:\@SAI\051--100\089\099\Micros\DESIGN\0873\SW_RAMP\090203_SWxs.dgn PLOT DATE : 7/31/2007 PLOT BY : $$...plotuser...$$ PLOT NAME : PLOT SCALE : $$.....plotscale.....$$

WISDOT/CADDS SHEET 21



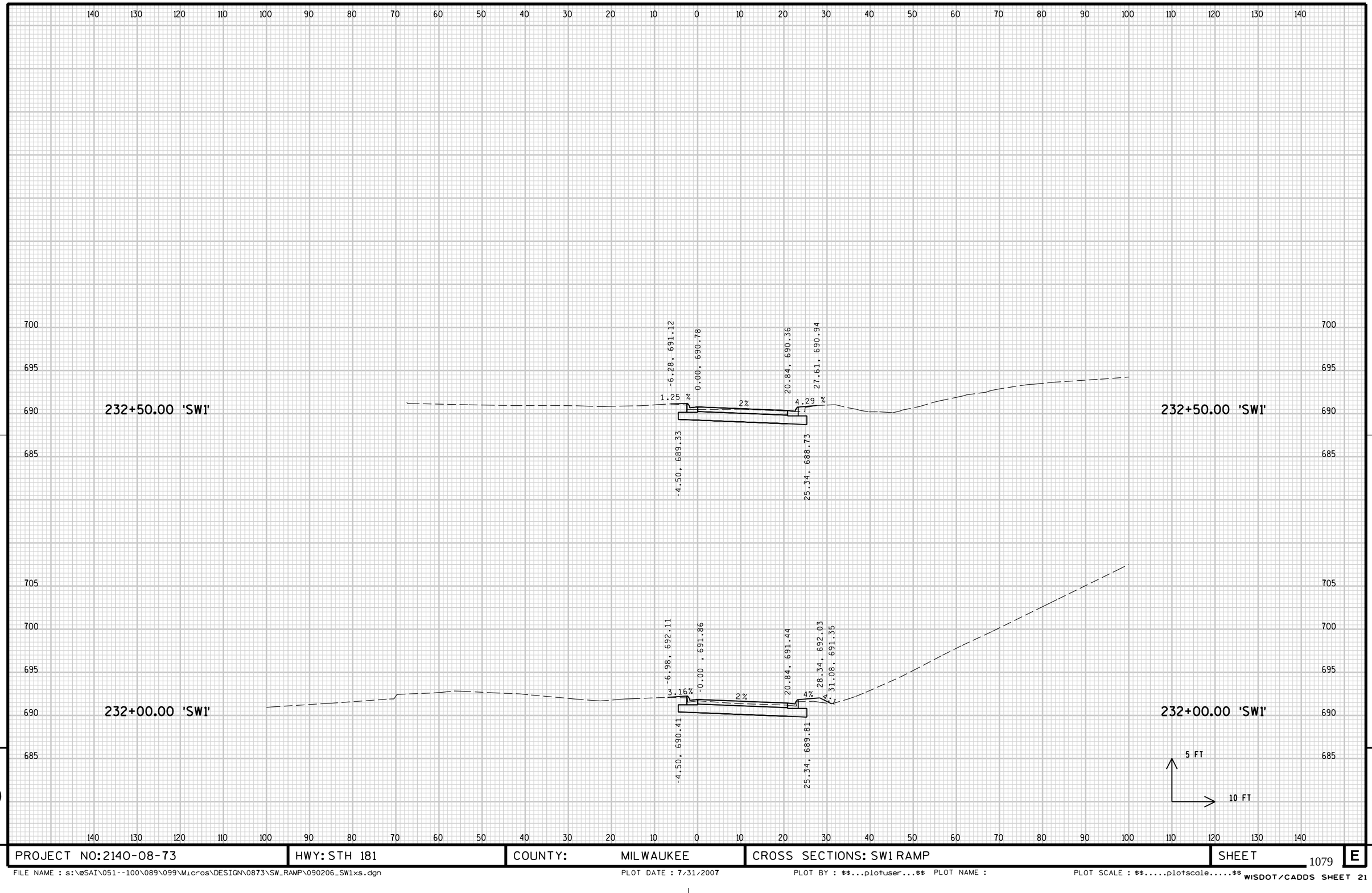
9

9

PROJECT NO: 2140-08-73	HWY: STH 181	COUNTY: MILWAUKEE	CROSS SECTIONS: SW1 RAMP	SHEET 1078	E

FILE NAME : s:\@SAI\051--100\089\099\Micros\DESIGN\0873\SW_RAMP\090206_SW1xs.dgn PLOT DATE : 7/31/2007 PLOT BY : $$...plotuser...$$ PLOT NAME : PLOT SCALE : $$.....plotscale.....$$

WISDOT/CADDS SHEET 21



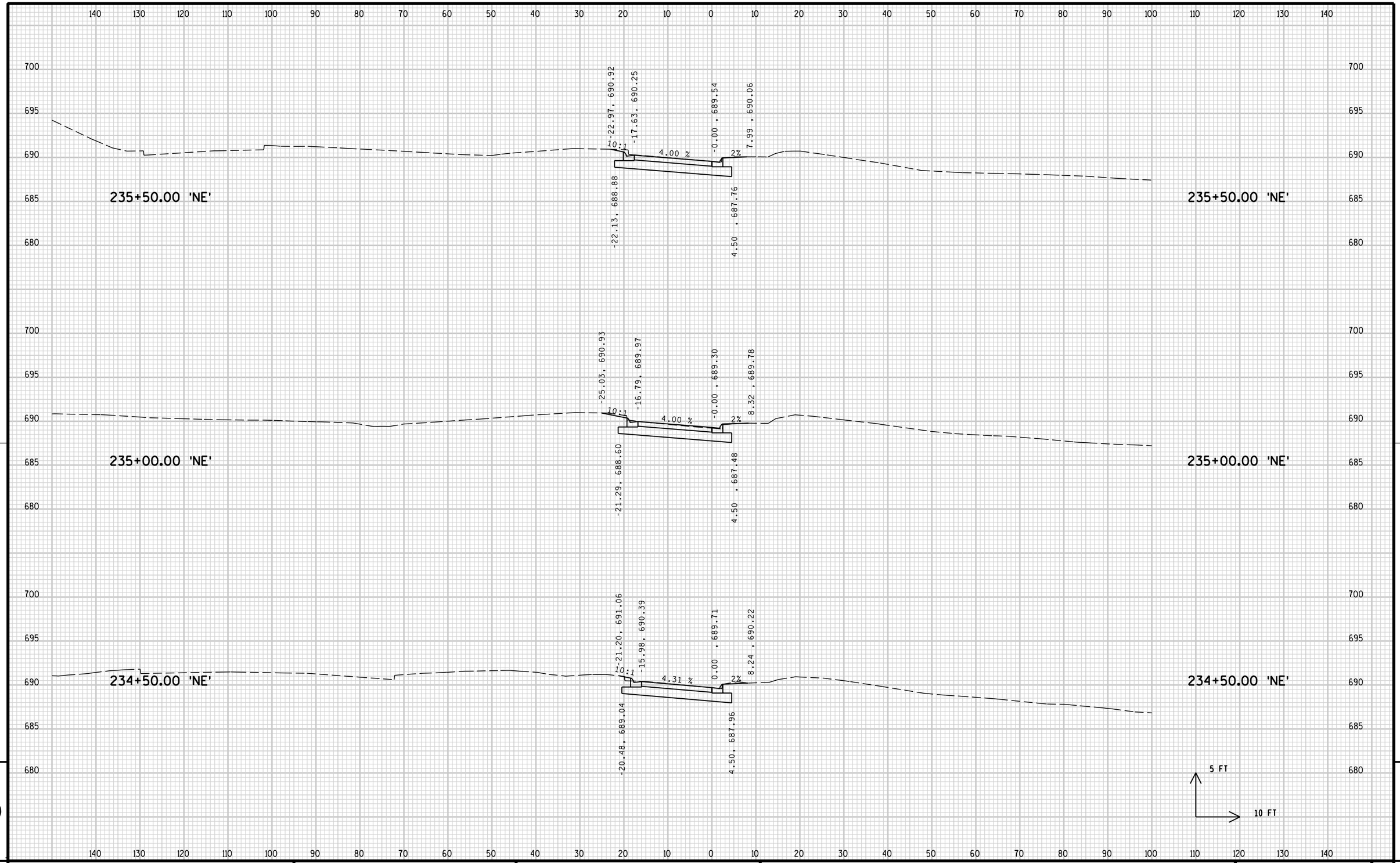
9

9

PROJECT NO: 2140-08-73	HWY: STH 181	COUNTY: MILWAUKEE	CROSS SECTIONS: SW1 RAMP	SHEET	E

FILE NAME : s:\@SAI\051--100\089\099\Micros\DESIGN\0873\SW_RAMP\090206_SW1xs.dgn PLOT DATE : 7/31/2007 PLOT BY : $$...plotuser...$$ PLOT NAME : PLOT SCALE : $$.....plotscale.....$$

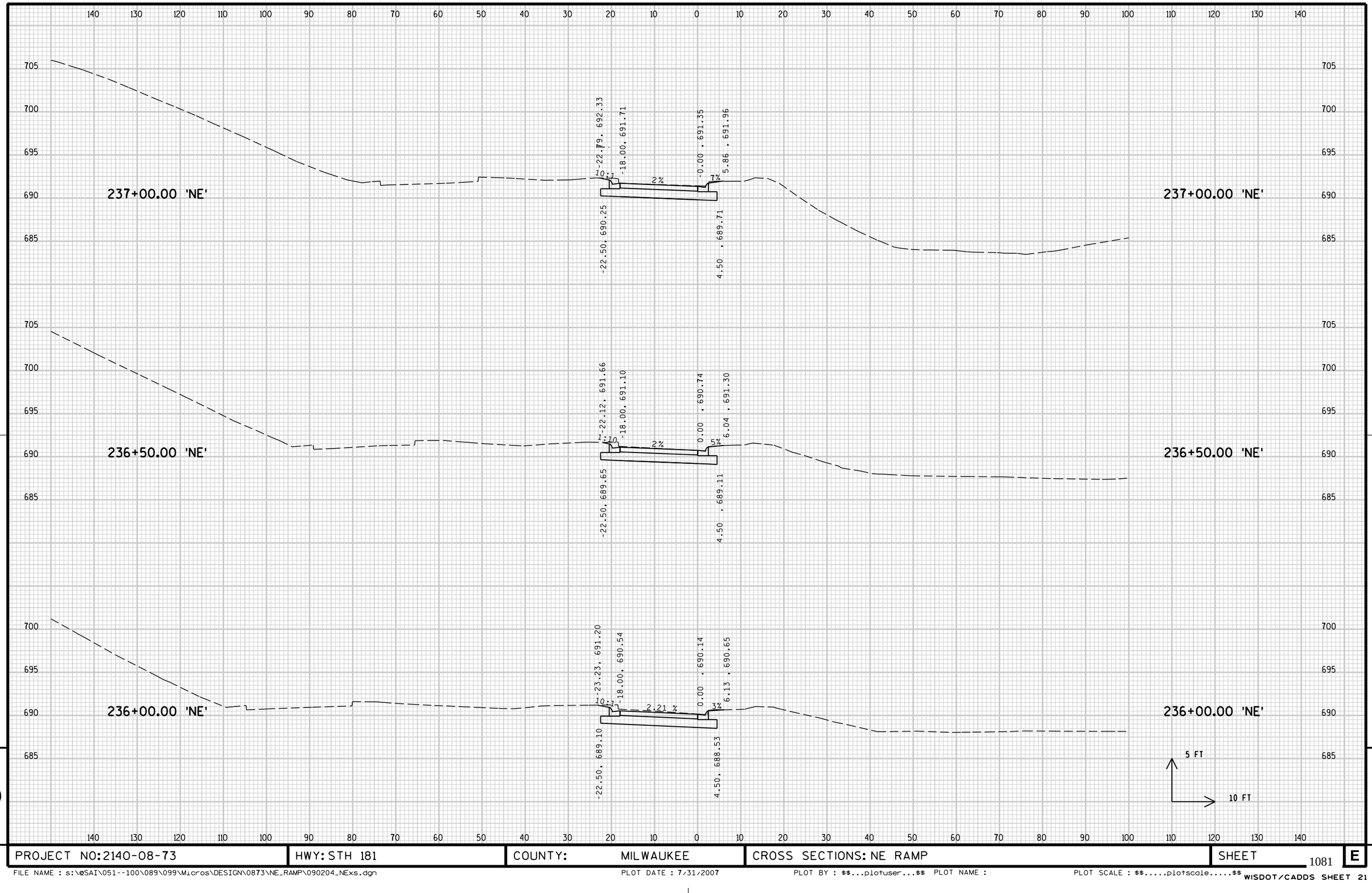
WISDOT/CADDS SHEET 21



PROJECT NO: 2140-08-73	HWY: STH 181	COUNTY: MILWAUKEE	CROSS SECTIONS: NE RAMP	SHEET 1080	E

FILE NAME : s:\@SAI\051--100\089\099\Micros\DESIGN\0873\NE_RAMP\090204_NExs.dgn PLOT DATE : 7/31/2007 PLOT BY : $$...plotuser...$$ PLOT NAME : PLOT SCALE : $$.....plotscale.....$$

WISDOT/CADDS SHEET 21



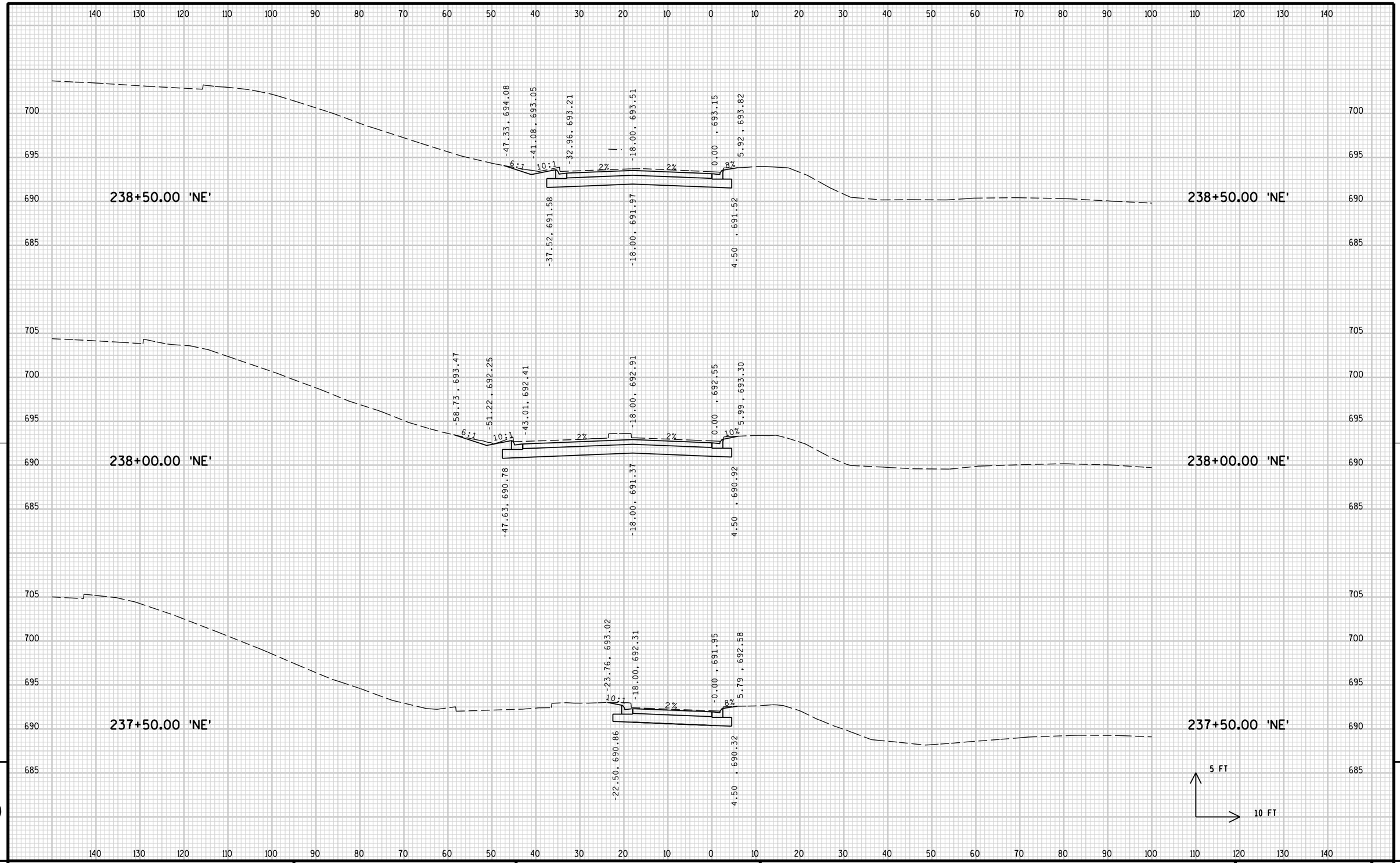
9

9

PROJECT NO: 2140-08-73	HWY: STH 181	COUNTY: MILWAUKEE	CROSS SECTIONS: NE RAMP	SHEET 1081	E

FILE NAME : s:\@SAI\051--100\089\099\Micros\DESIGN\0873\NE_RAMP\090204_NExs.dgn PLOT DATE : 7/31/2007 PLOT BY : $$...plotuser...$$ PLOT NAME : PLOT SCALE : $$.....plotscale.....$$

WISDOT/CADDS SHEET 21

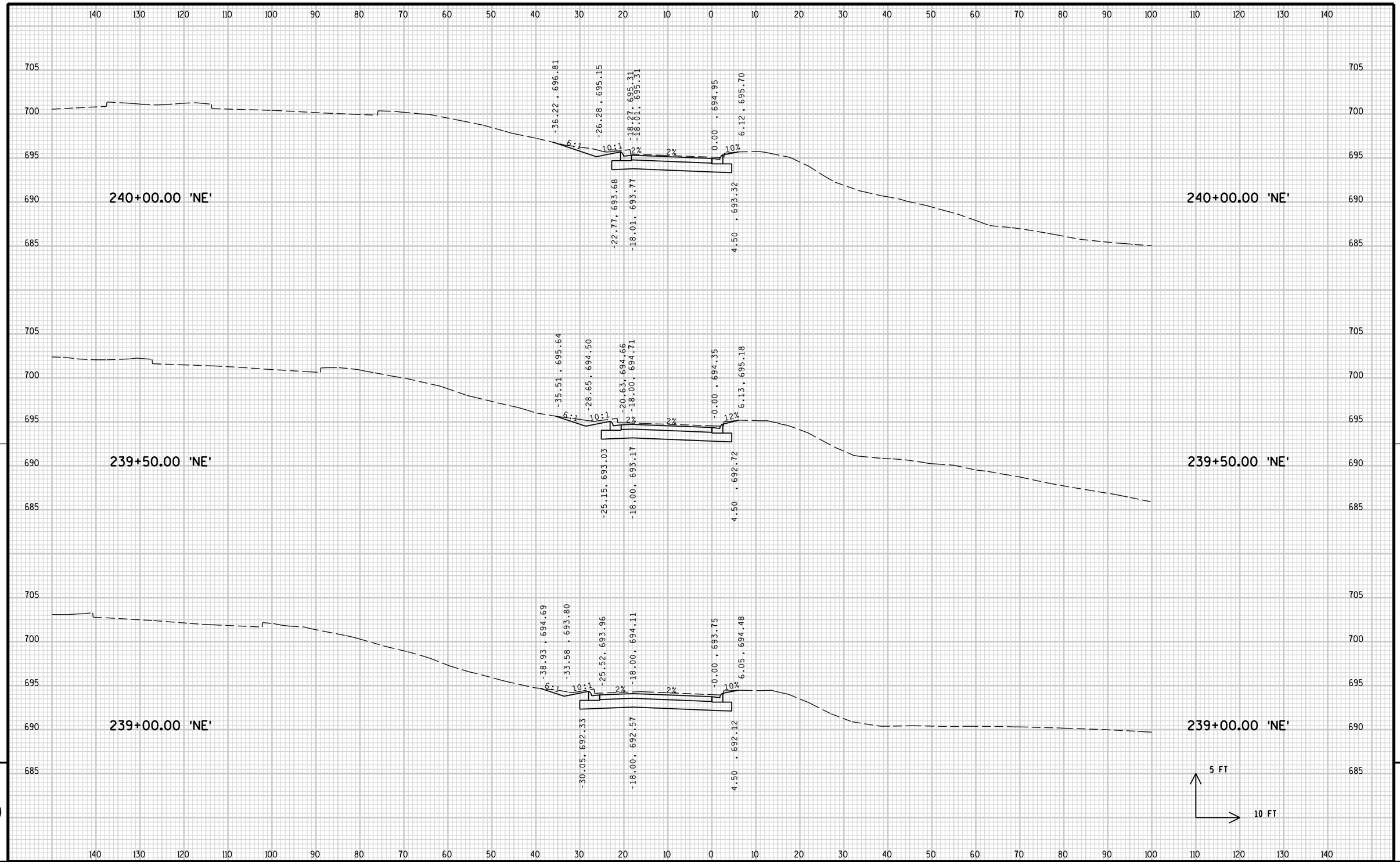


9

PROJECT NO: 2140-08-73	HWY: STH 181	COUNTY: MILWAUKEE	CROSS SECTIONS: NE RAMP	SHEET 1082	E

FILE NAME : s:\@SAI\051--100\089\099\Micros\DESIGN\0873\NE_RAMP\090204_NExs.dgn PLOT DATE : 7/31/2007 PLOT BY : $$...plotuser...$$ PLOT NAME : PLOT SCALE : $$.....plotscale.....$$

WISDOT/CADDS SHEET 21



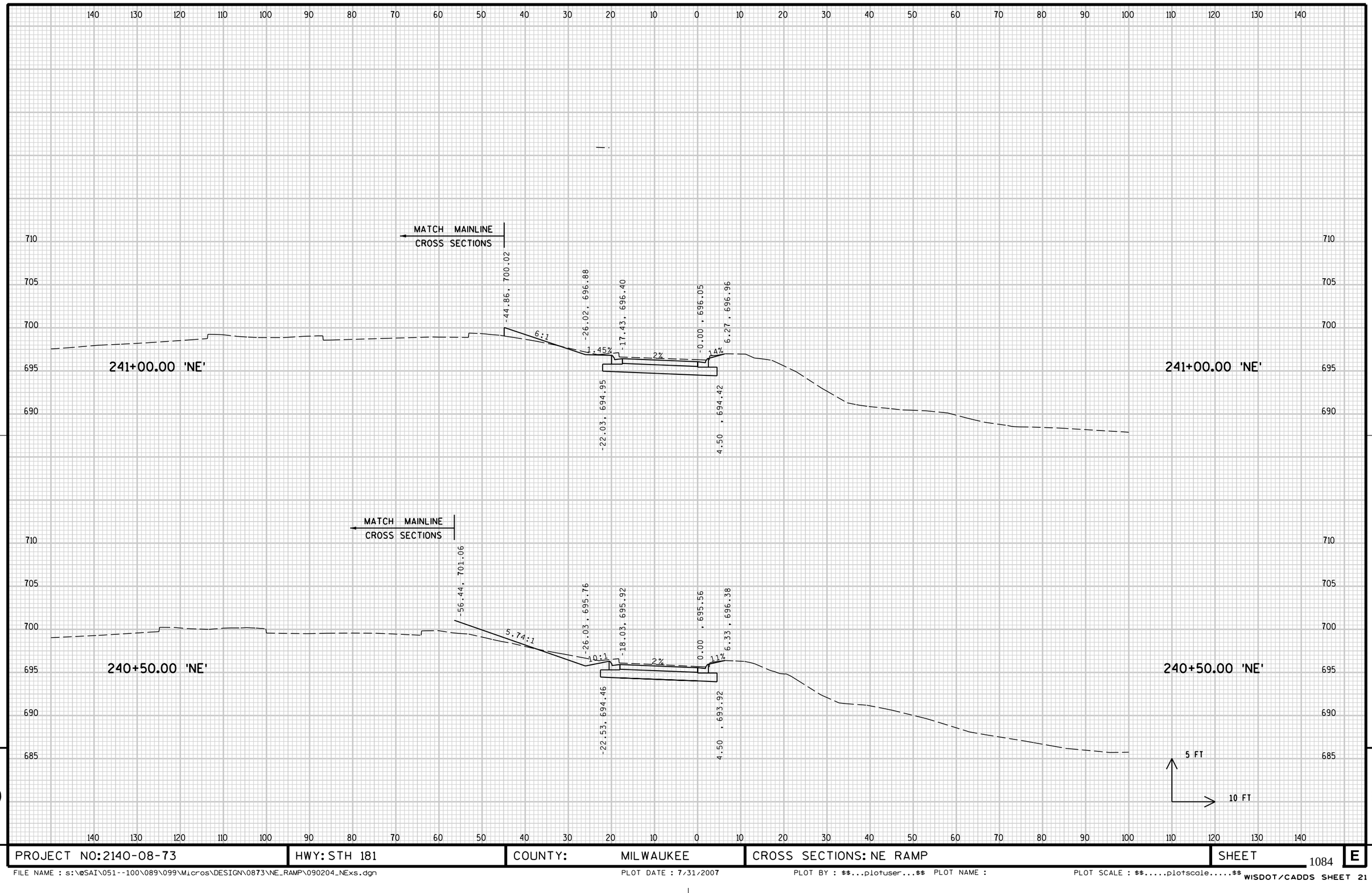
9

9

PROJECT NO: 2140-08-73	HWY: STH 181	COUNTY: MILWAUKEE	CROSS SECTIONS: NE RAMP	SHEET 1083	E

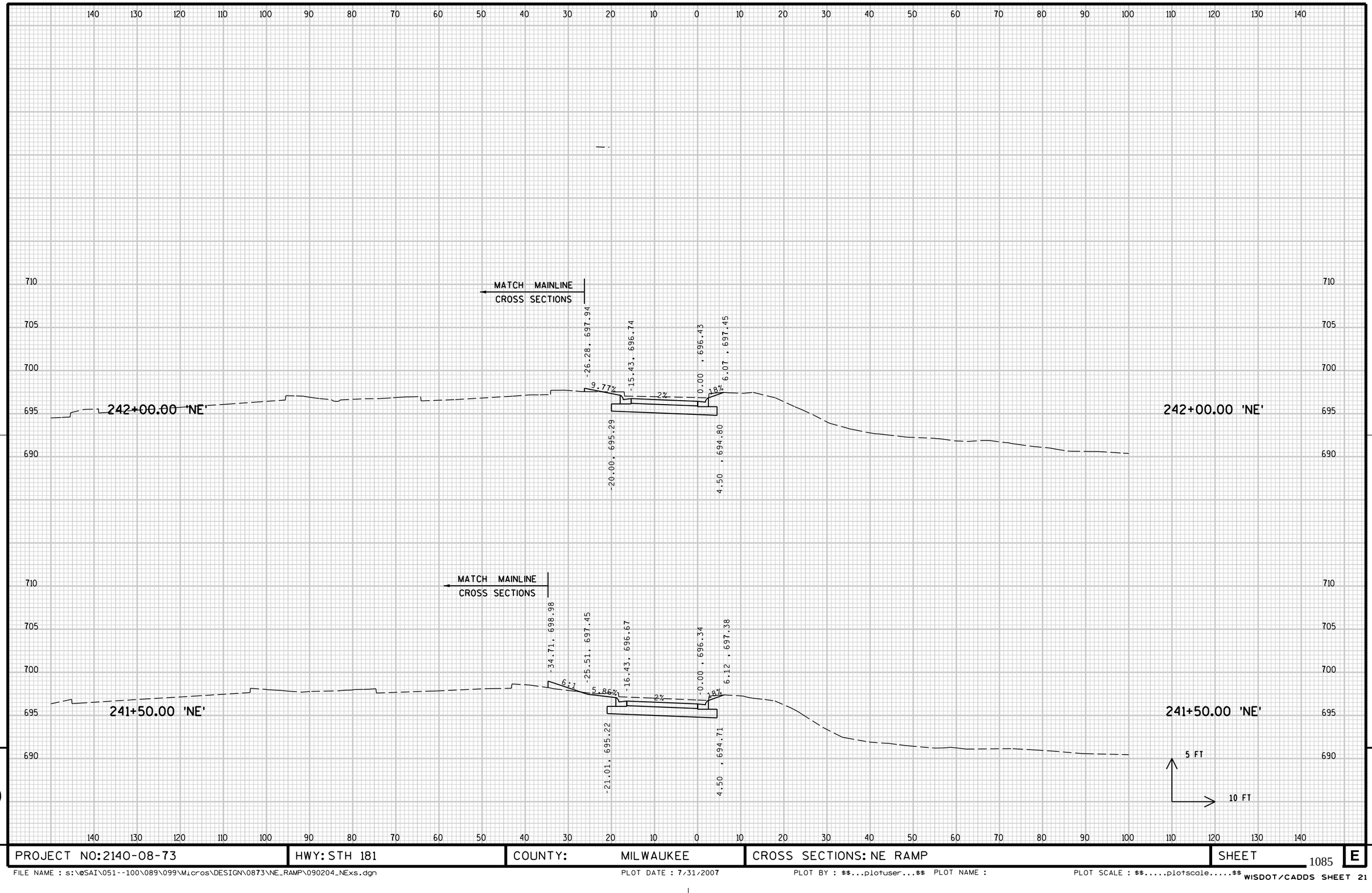
FILE NAME : s:\@SAI\051--100\089\099\Micros\DESIGN\0873\NE_RAMP\090204_NExs.dgn PLOT DATE : 7/31/2007 PLOT BY : $$...plotuser...$$ PLOT NAME : PLOT SCALE : $$.....plotscale.....$$

WISDOT/CADDS SHEET 21



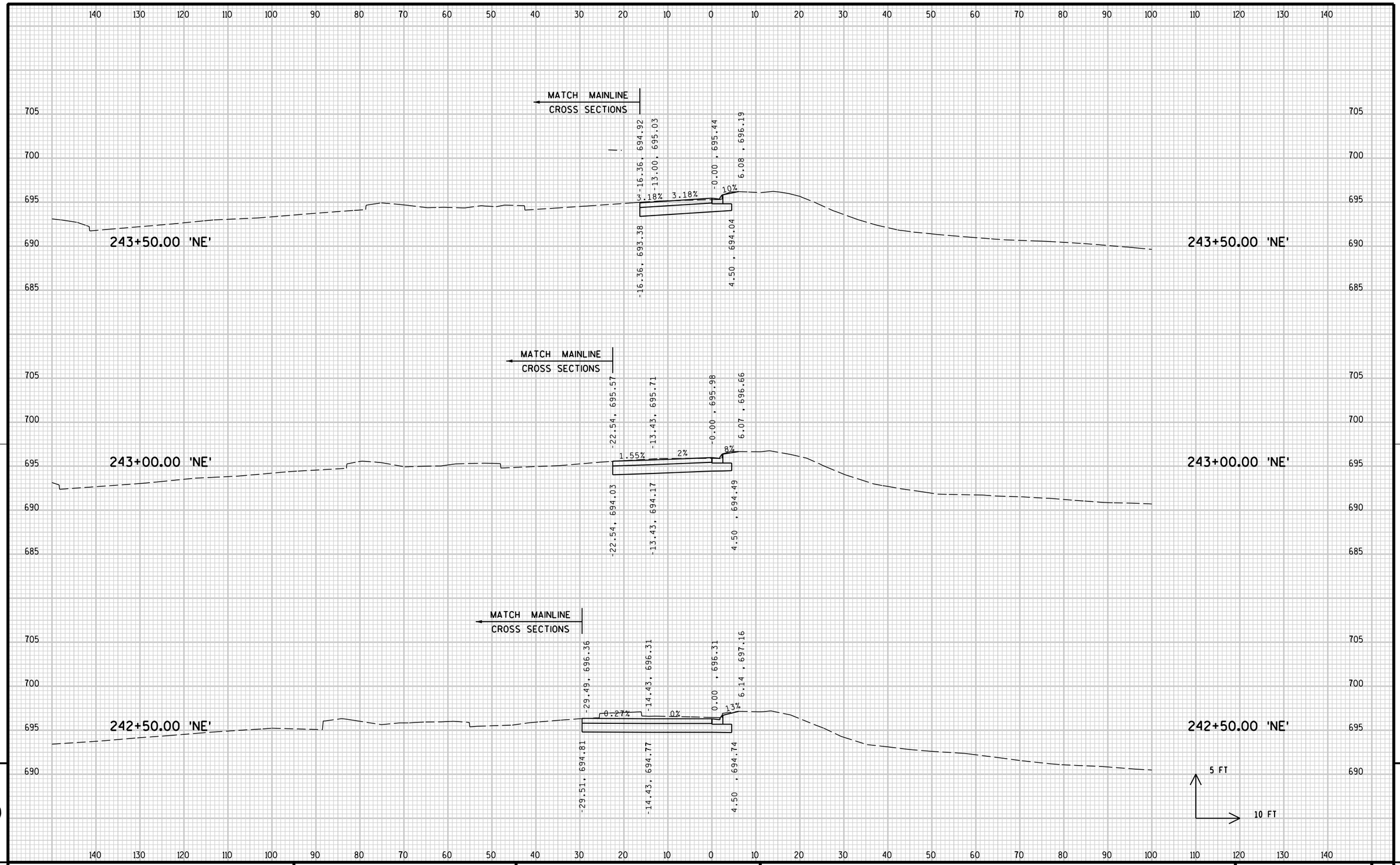
PROJECT NO:2140-08-73	HWY: STH 181	COUNTY: MILWAUKEE	CROSS SECTIONS: NE RAMP	SHEET 1084	E

FILE NAME : s:\@SAI\051--100\089\099\Micros\DESIGN\0873\NE_RAMP\090204_NExs.dgn PLOT DATE : 7/31/2007 PLOT BY : $$...plotuser...$$ PLOT NAME : PLOT SCALE : $$.....plotscale.....$$ WISDOT/CADDS SHEET 21



PROJECT NO: 2140-08-73	HWY: STH 181	COUNTY: MILWAUKEE	CROSS SECTIONS: NE RAMP	SHEET 1085	E

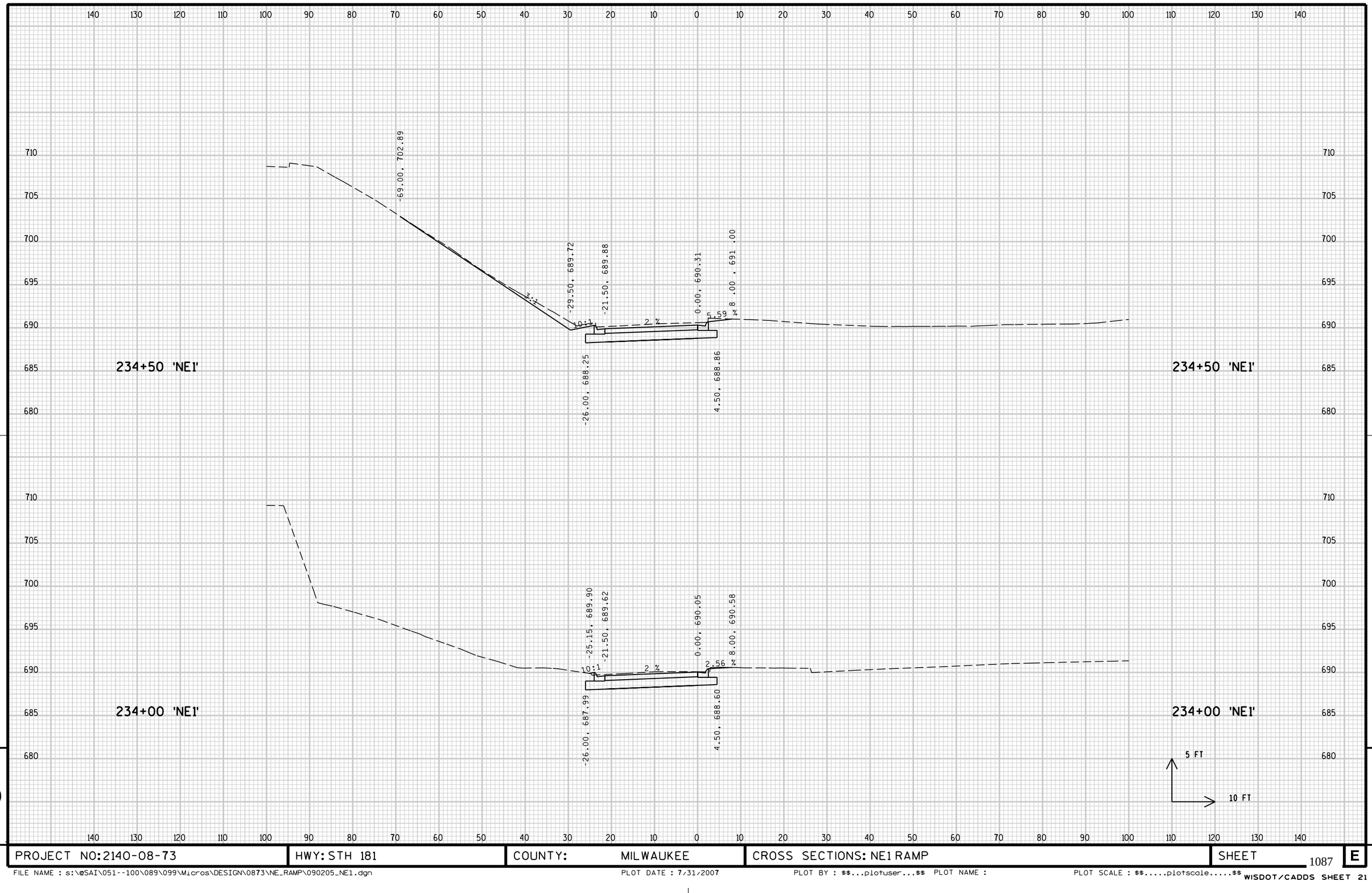
FILE NAME : s:\@SAI\051--100\089\099\Micros\DESIGN\0873\NE_RAMP\090204_NExs.dgn PLOT DATE : 7/31/2007 PLOT BY : $$...plotuser...$$ PLOT NAME : PLOT SCALE : $$.....plotscale.....$$



9

9

PROJECT NO:2140-08-73	HWY: STH 181	COUNTY: MILWAUKEE	CROSS SECTIONS: NE RAMP	SHEET 1086 E



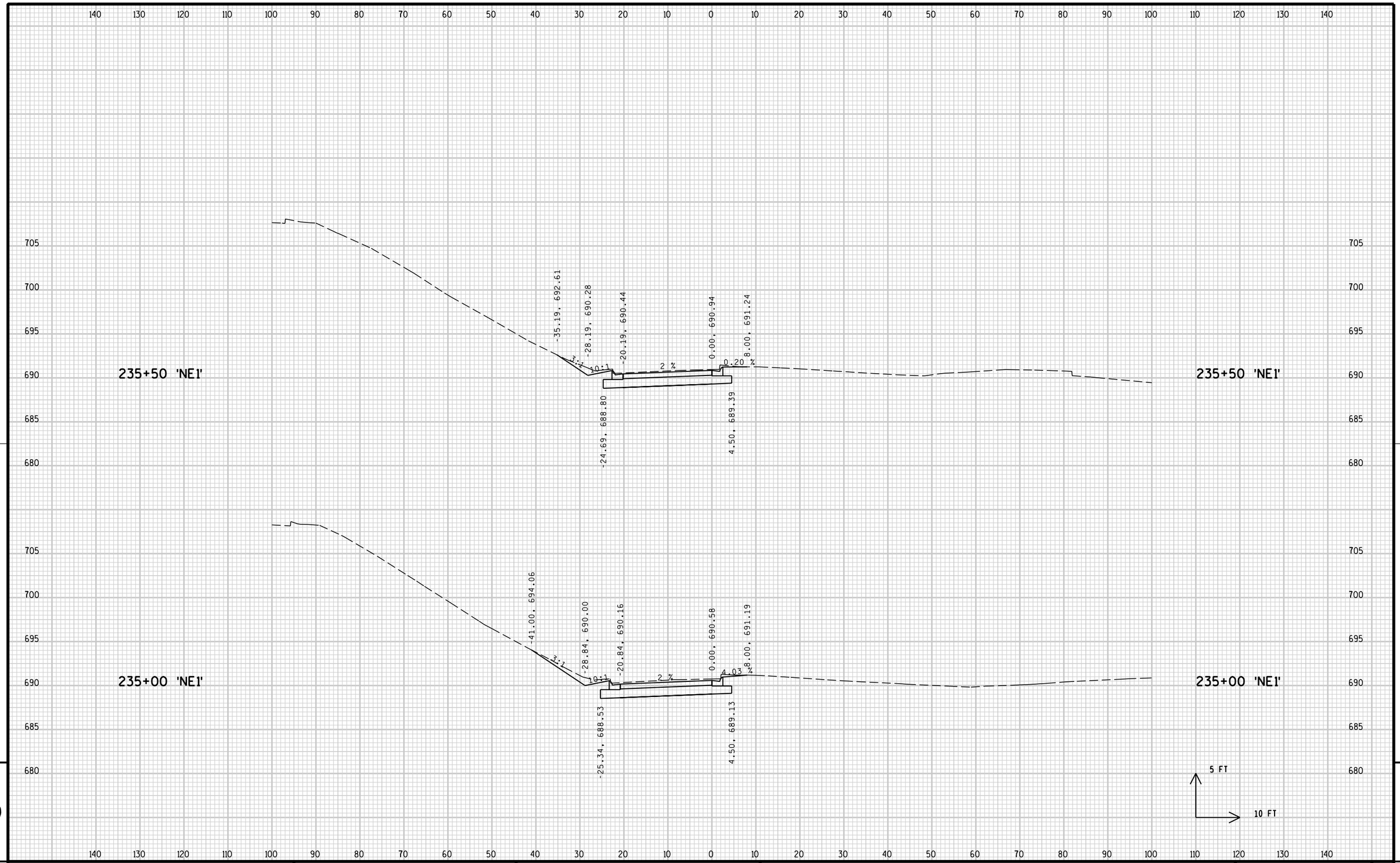
9

9

PROJECT NO: 2140-08-73	HWY: STH 181	COUNTY: MILWAUKEE	CROSS SECTIONS: NE1 RAMP	SHEET 1087 E

FILE NAME : s:\@SAI\051--100\089\099\Micros\DESIGN\0873\NE_RAMP\090205_NE1.dgn PLOT DATE : 7/31/2007 PLOT BY : $$...plotuser...$$ PLOT NAME : PLOT SCALE : $$.....plotscale.....$$

WISDOT/CADDS SHEET 21



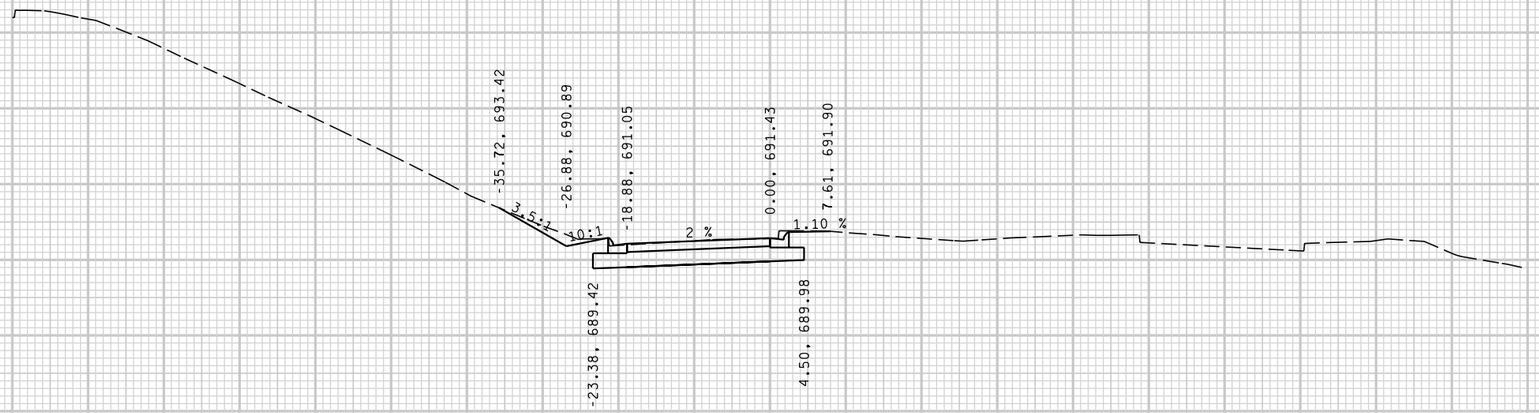
9

PROJECT NO: 2140-08-73	HWY: STH 181	COUNTY: MILWAUKEE	CROSS SECTIONS: NE1 RAMP	SHEET 1088	E

FILE NAME : s:\@SAI\051--100\089\099\Micros\DESIGN\0873\NE_RAMP\090205_NE1.dgn PLOT DATE : 7/31/2007 PLOT BY : $$...plotuser...$$ PLOT NAME : PLOT SCALE : $$.....plotscale.....$$ WISDOT/CADDS SHEET 21

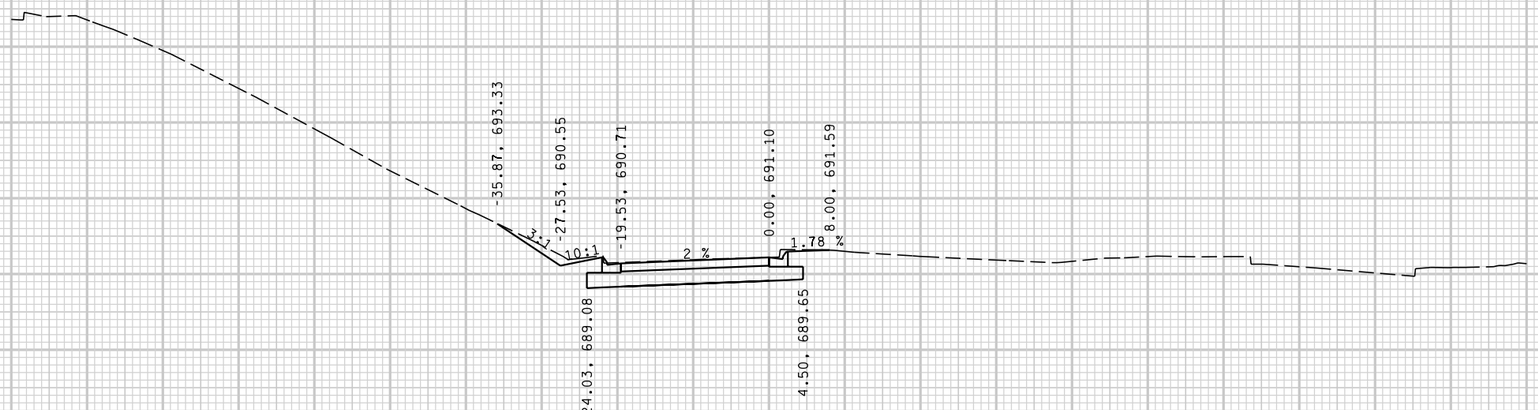
140 130 120 110 100 90 80 70 60 50 40 30 20 10 0 10 20 30 40 50 60 70 80 90 100 110 120 130 140

705
700
695
690
685



236+50 'NE1'

236+50 'NE1'



236+00 'NE1'

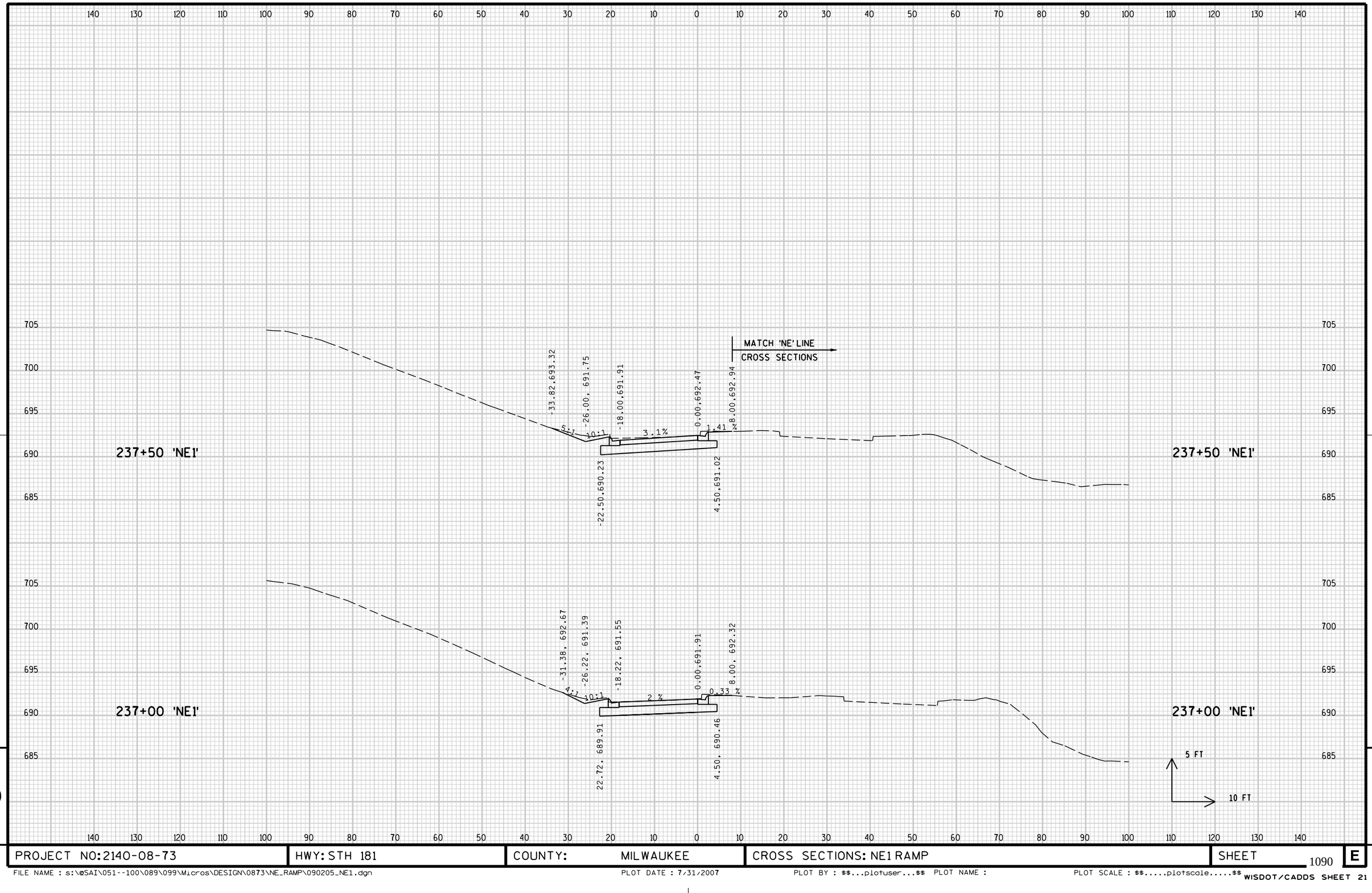
236+00 'NE1'

5 FT
10 FT

9

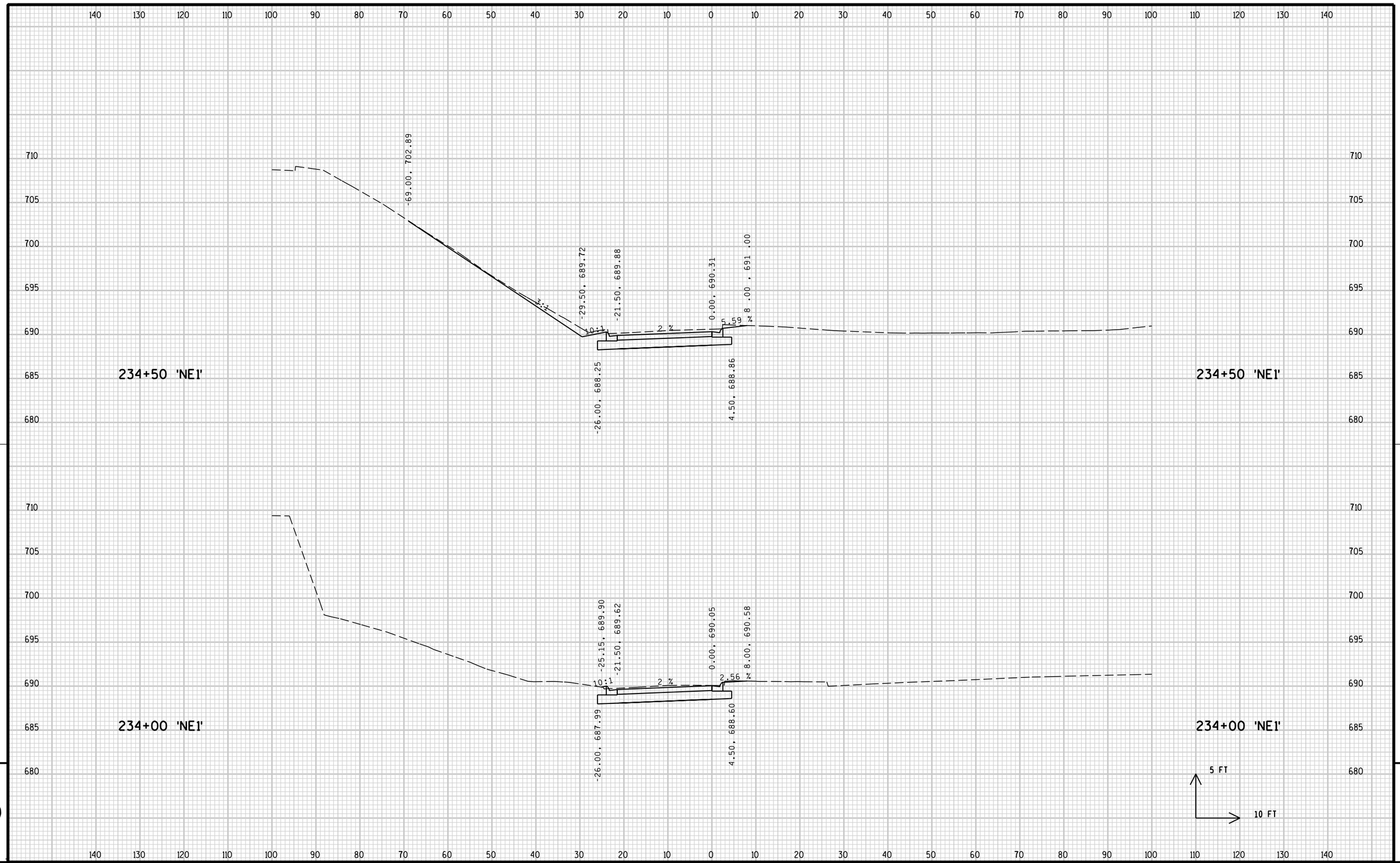
9

PROJECT NO: 2140-08-73	HWY: STH 181	COUNTY: MILWAUKEE	CROSS SECTIONS: NE1 RAMP	SHEET 1089	E



PROJECT NO: 2140-08-73	HWY: STH 181	COUNTY: MILWAUKEE	CROSS SECTIONS: NE1 RAMP	SHEET 1090	E

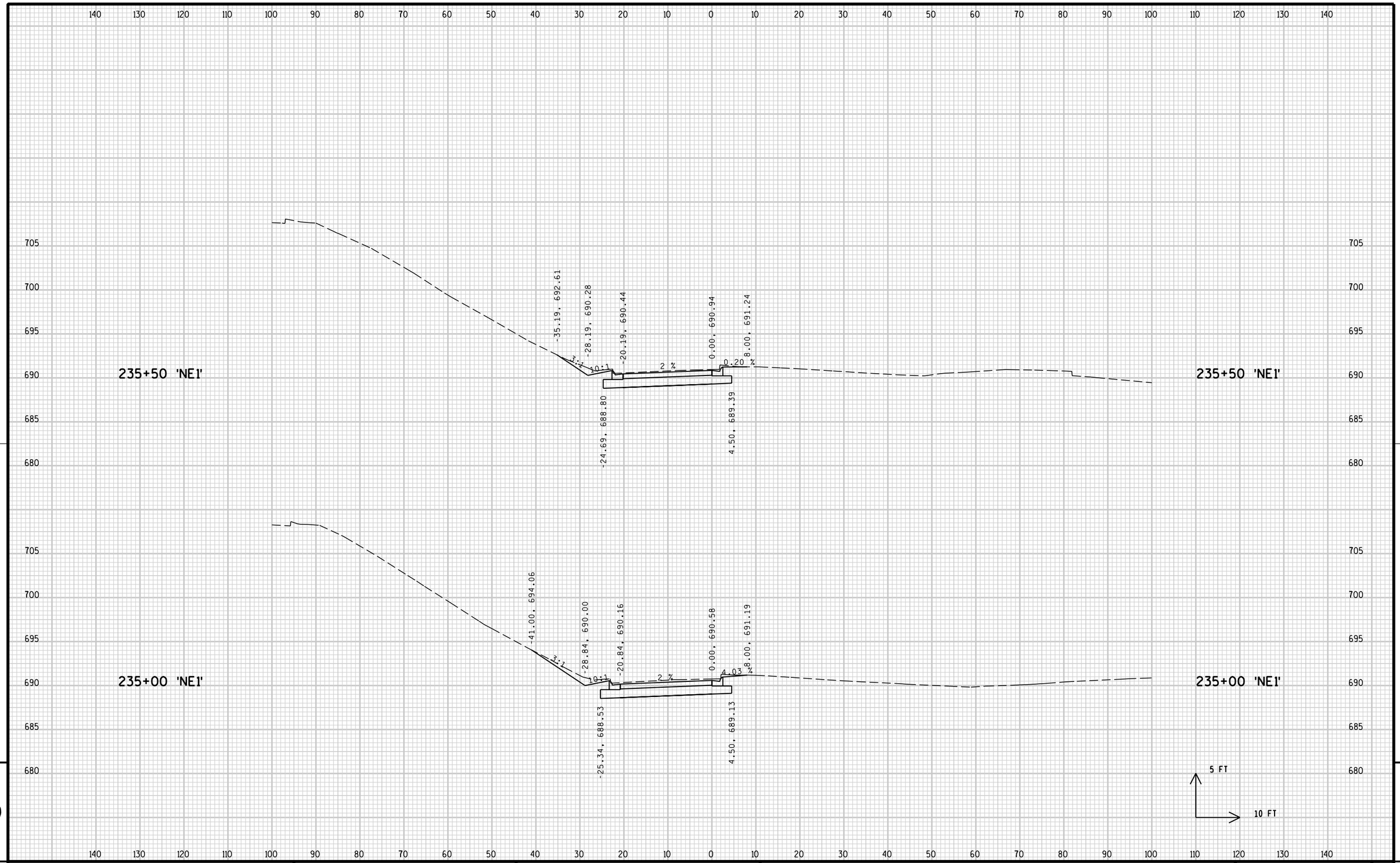
FILE NAME : s:\@SAI\051--100\089\099\Micros\DESIGN\0873\NE_RAMP\090205_NE1.dgn PLOT DATE : 7/31/2007 PLOT BY : $$...plotuser...$$ PLOT NAME : PLOT SCALE : $$.....plotscale.....$$ WISDOT/CADDS SHEET 21



9

9

PROJECT NO: 2140-08-73	HWY: STH 181	COUNTY: MILWAUKEE	CROSS SECTIONS: NE1 RAMP	SHEET 1091	E



9

PROJECT NO: 2140-08-73	HWY: STH 181	COUNTY: MILWAUKEE	CROSS SECTIONS: NE1 RAMP	SHEET 1092	E

FILE NAME : s:\@SAI\051--100\089\099\Micros\DESIGN\0873\NE_RAMP\090205_NE1.dgn PLOT DATE : 7/31/2007 PLOT BY : $$...plotuser...$$ PLOT NAME : PLOT SCALE : $$.....plotscale.....$$

WISDOT/CADDS SHEET 21

140 130 120 110 100 90 80 70 60 50 40 30 20 10 0 10 20 30 40 50 60 70 80 90 100 110 120 130 140

705
700
695
690
685

236+50 'NE1'

-35.72, 693.42
-26.88, 690.89
-18.88, 691.05
0.00, 691.43
7.61, 691.90
3.5:1
10:1
2 %
1.10 %
-23.38, 689.42
4.50, 689.98

236+50 'NE1'

705
700
695
690
685

236+00 'NE1'

-35.87, 693.33
-27.53, 690.55
-19.53, 690.71
0.00, 691.10
8.00, 691.59
3.7:1
10:1
2 %
1.78 %
-24.03, 689.08
4.50, 689.65

236+00 'NE1'

5 FT
10 FT

140 130 120 110 100 90 80 70 60 50 40 30 20 10 0 10 20 30 40 50 60 70 80 90 100 110 120 130 140

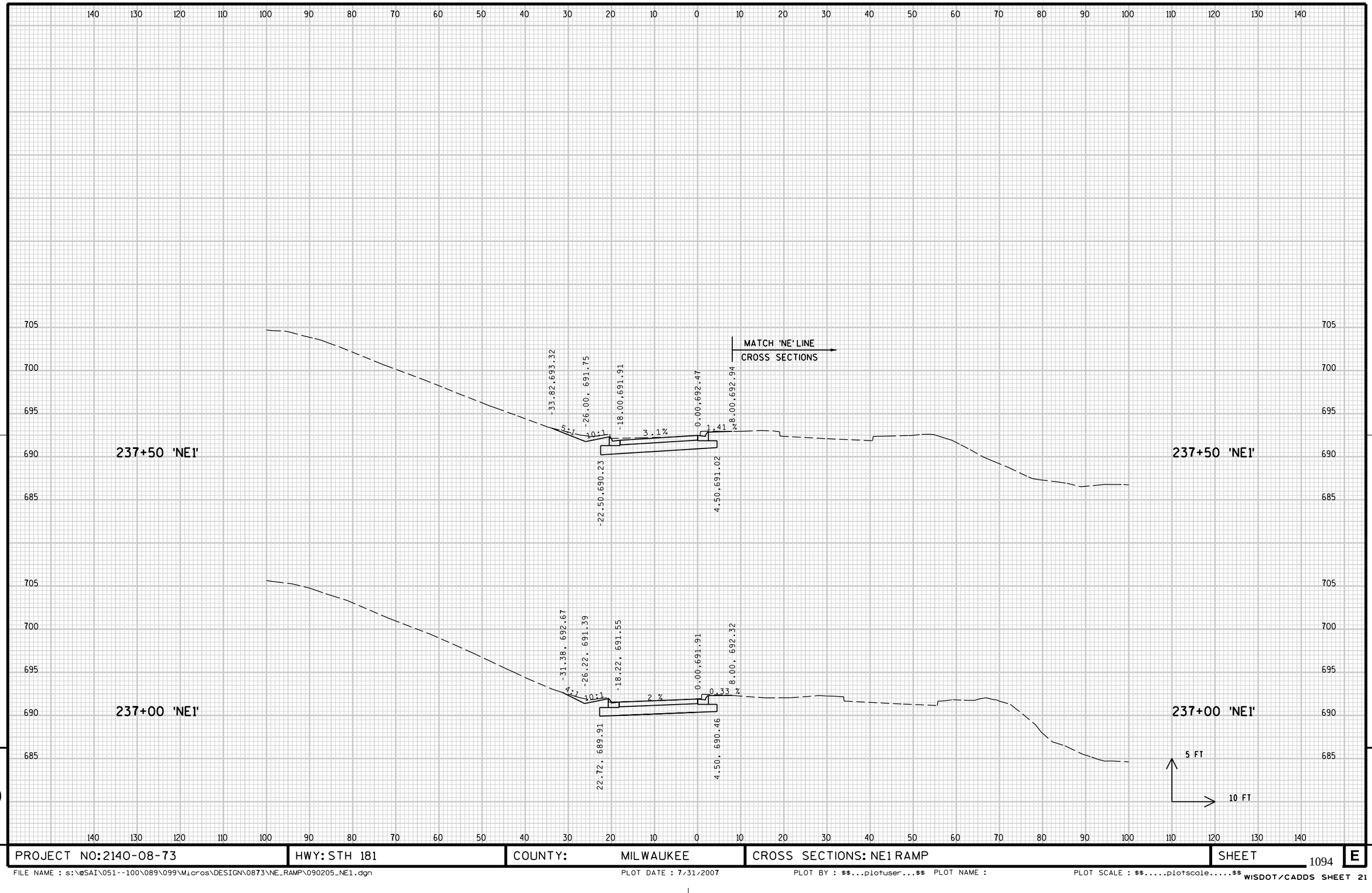
9

9

PROJECT NO: 2140-08-73	HWY: STH 181	COUNTY: MILWAUKEE	CROSS SECTIONS: NE1 RAMP	SHEET 1093	E

FILE NAME : s:\@SAI\051--100\089\099\Micros\DESIGN\0873\NE_RAMP\090205_NE1.dgn PLOT DATE : 7/31/2007 PLOT BY : $$...plotuser...$$ PLOT NAME : PLOT SCALE : $$.....plotscale.....$$

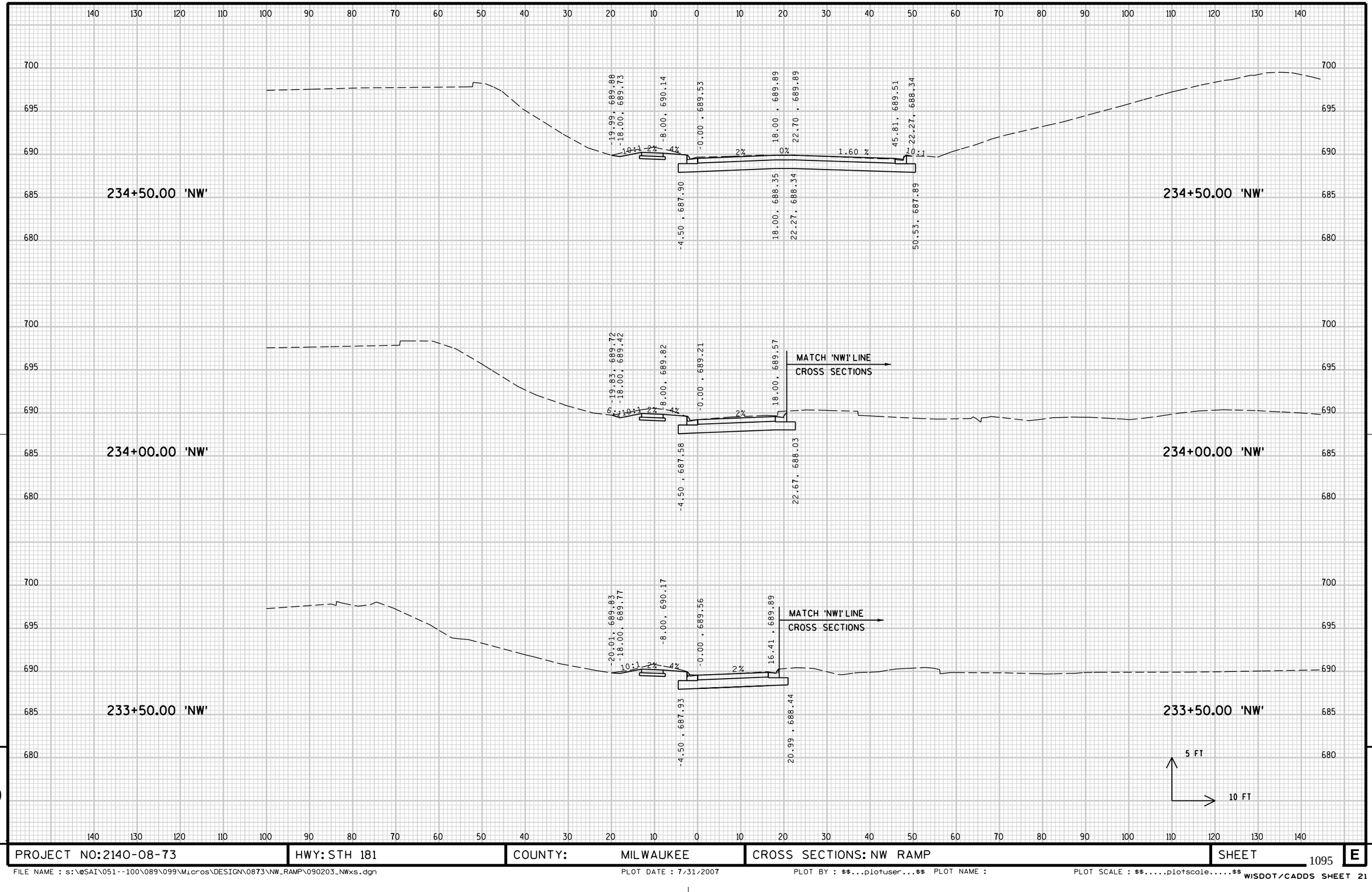
WISDOT/CADDS SHEET 21



9

PROJECT NO:2140-08-73	HWY: STH 181	COUNTY: MILWAUKEE	CROSS SECTIONS: NE1 RAMP	SHEET 1094	E

FILE NAME : s:\@SAI\051--100\089\099\Micros\DESIGN\0873\NE_RAMP\090205_NE1.dgn PLOT DATE : 7/31/2007 PLOT BY : $$...plotuser...$$ PLOT NAME : PLOT SCALE : $$.....plotscale.....$$ WISDOT/CADDS SHEET 21



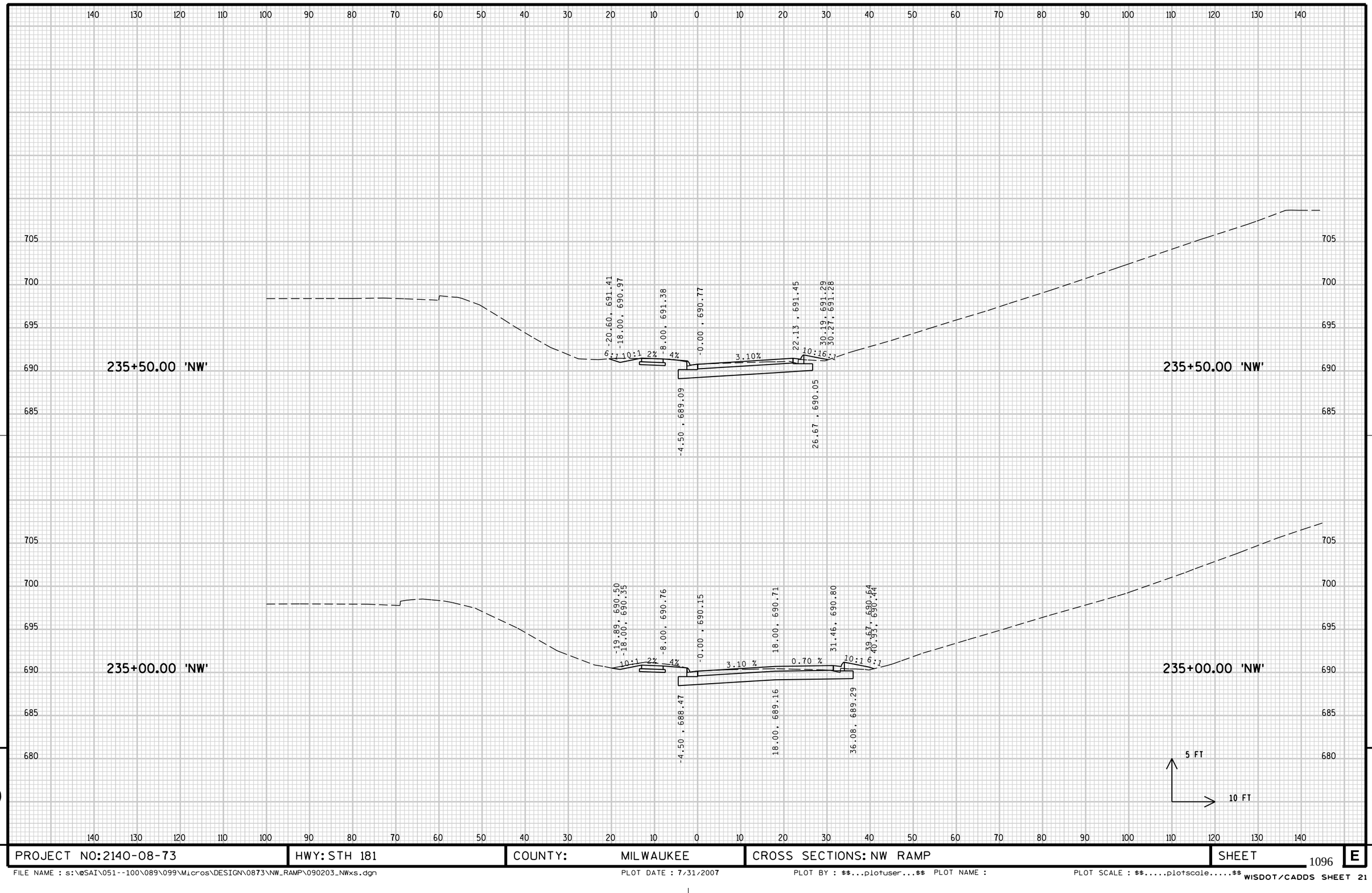
9

9

PROJECT NO:2140-08-73	HWY: STH 181	COUNTY: MILWAUKEE	CROSS SECTIONS: NW RAMP	SHEET 1095	E

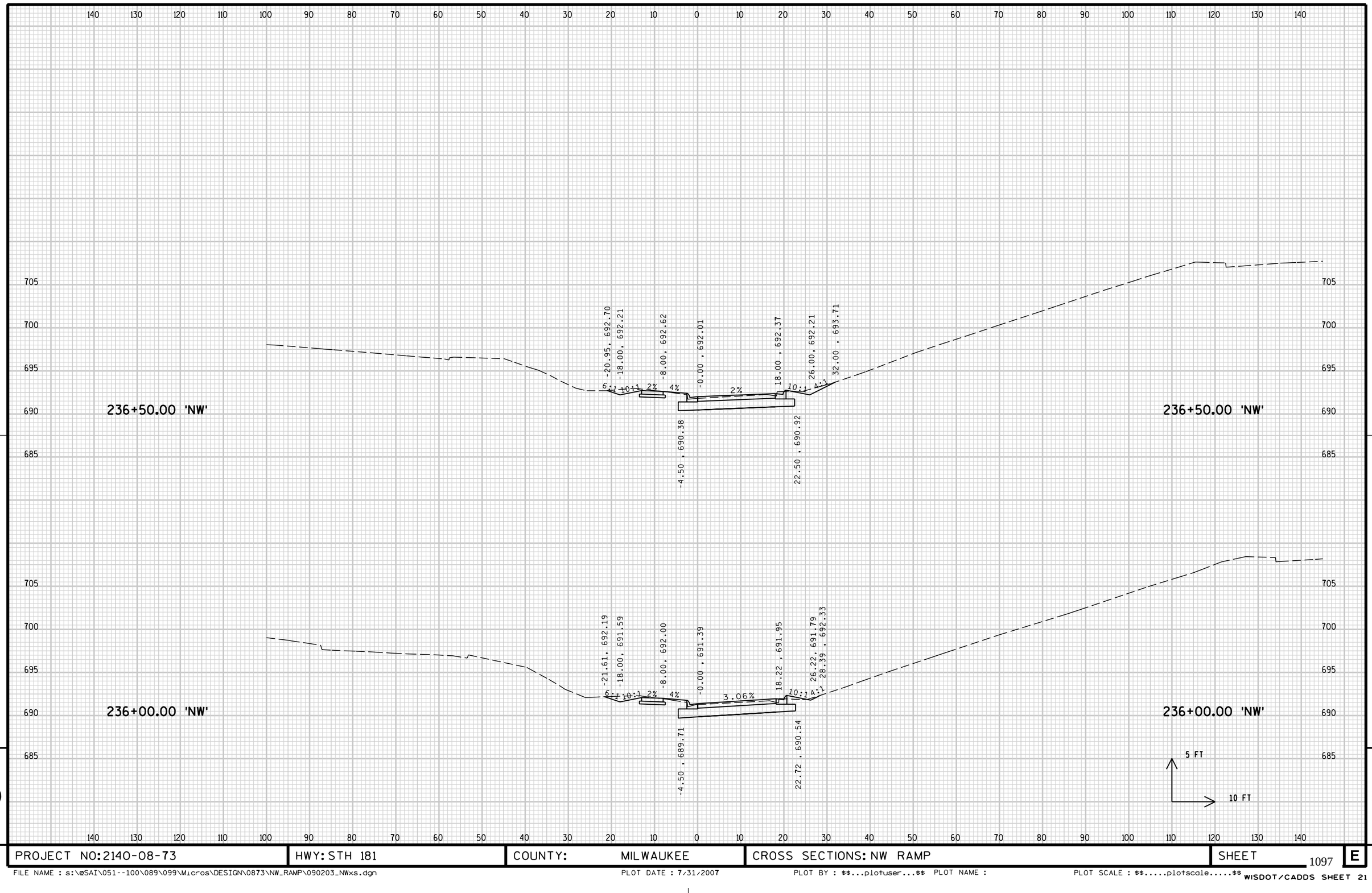
FILE NAME : s:\@SAI\051--100\089\099\Micros\DESIGN\0873\NW_RAMP\090203_NWxs.dgn PLOT DATE : 7/31/2007 PLOT BY : $$...plotuser...$$ PLOT NAME : PLOT SCALE : $$.....plotscale.....$$

WISDOT/CADDS SHEET 21



9 9

PROJECT NO: 2140-08-73	HWY: STH 181	COUNTY: MILWAUKEE	CROSS SECTIONS: NW RAMP	SHEET 1096 E

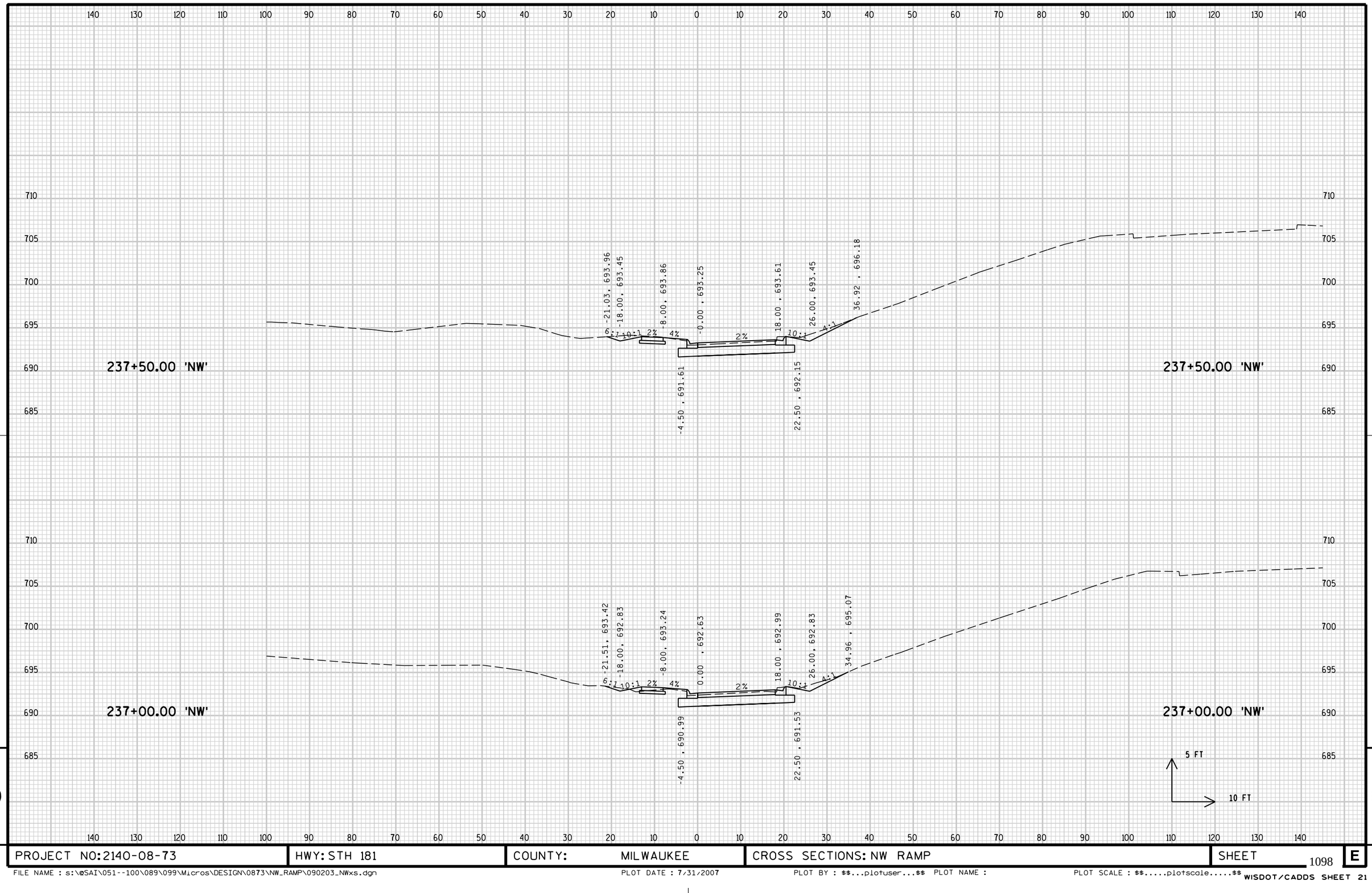


9

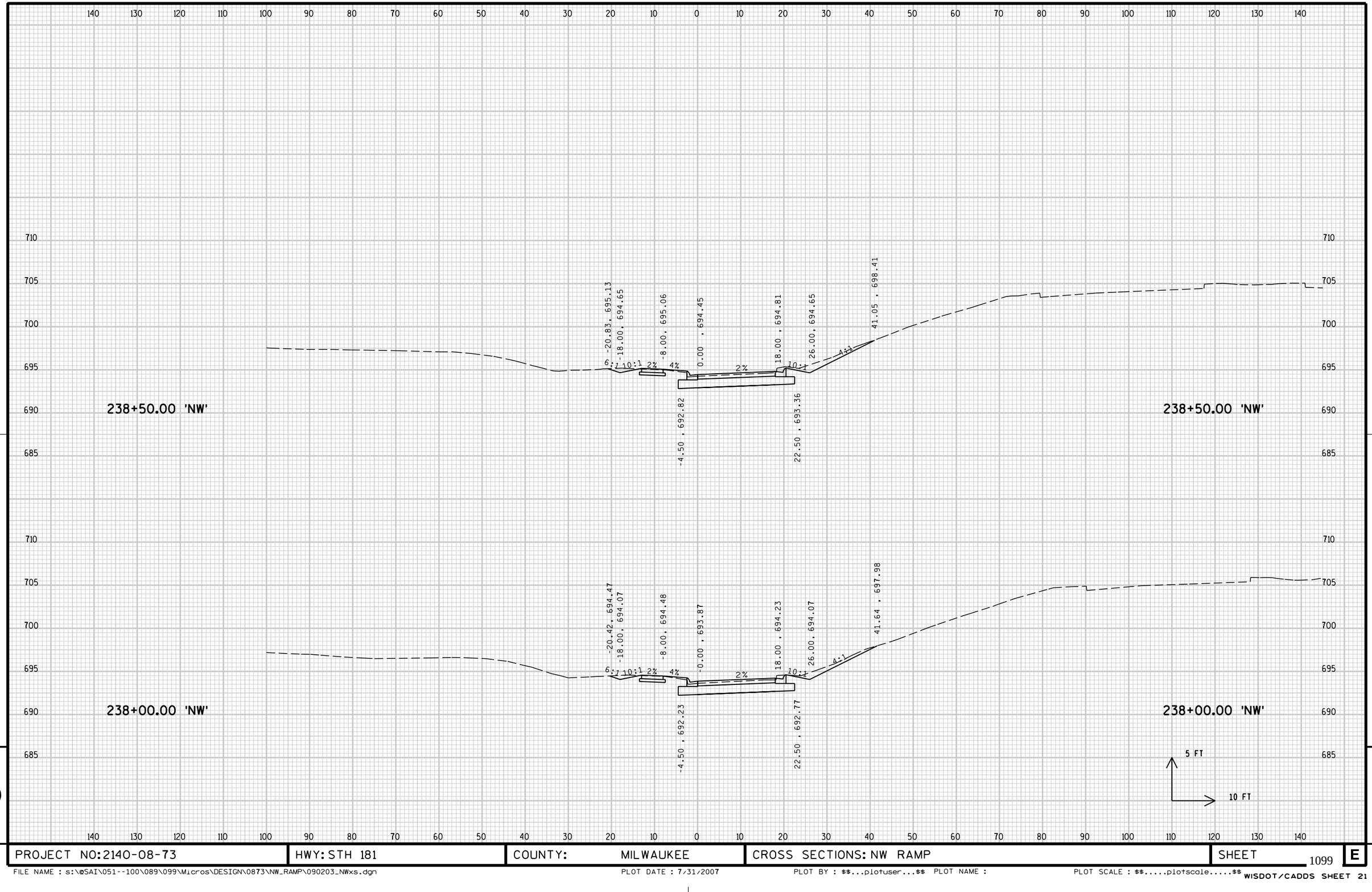
PROJECT NO: 2140-08-73	HWY: STH 181	COUNTY: MILWAUKEE	CROSS SECTIONS: NW RAMP	SHEET 1097	E

FILE NAME : s:\@SAI\051--100\089\099\Micros\DESIGN\0873\NW_RAMP\090203_NWxs.dgn PLOT DATE : 7/31/2007 PLOT BY : $$...plotuser...$$ PLOT NAME : PLOT SCALE : $$.....plotscale.....$$

WISDOT/CADDS SHEET 21



PROJECT NO: 2140-08-73	HWY: STH 181	COUNTY: MILWAUKEE	CROSS SECTIONS: NW RAMP	SHEET 1098 E



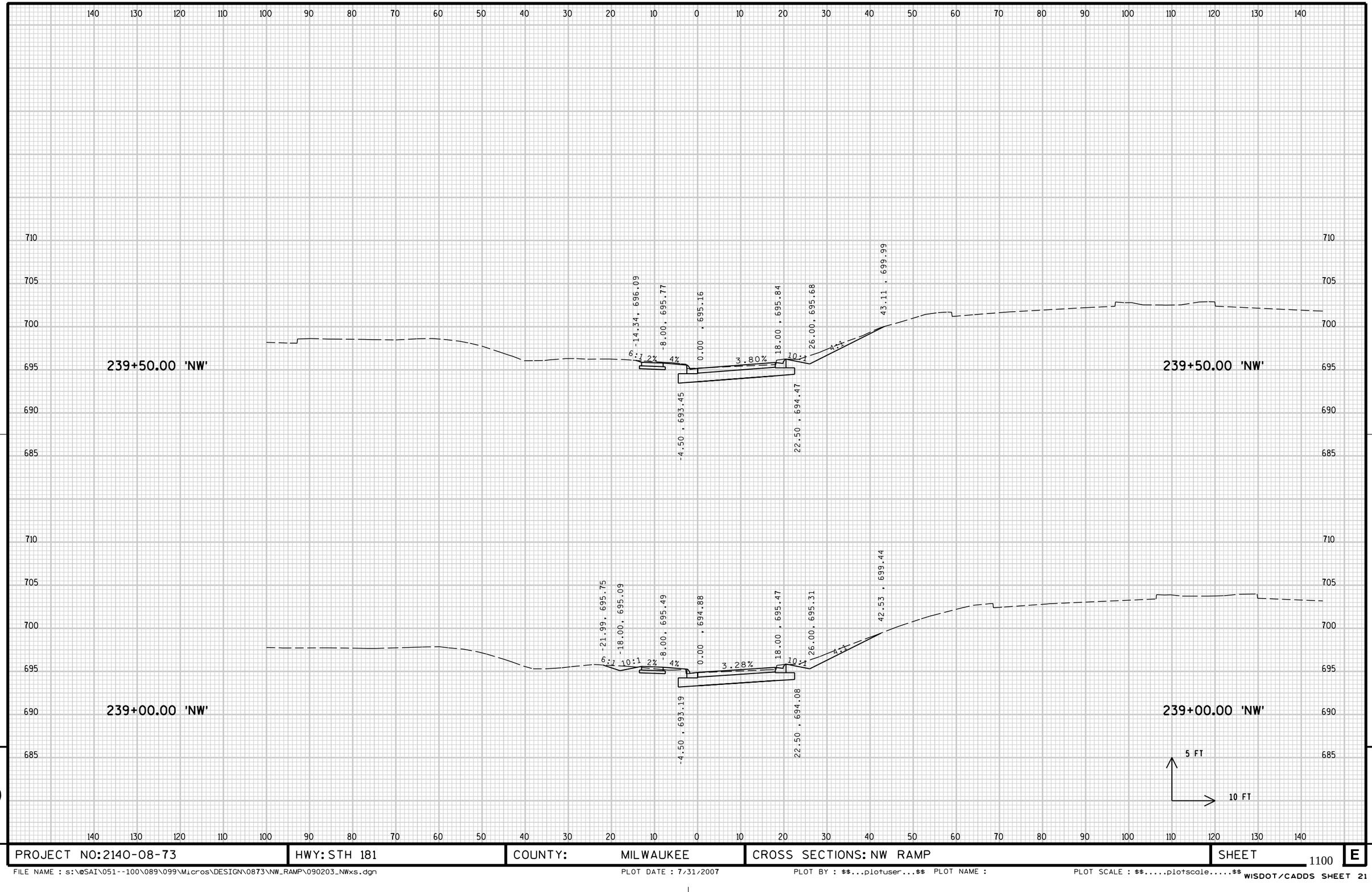
9

9

PROJECT NO: 2140-08-73	HWY: STH 181	COUNTY: MILWAUKEE	CROSS SECTIONS: NW RAMP	SHEET 1099	E

FILE NAME : s:\@SAI\051--100\089\099\Micros\DESIGN\0873\NW_RAMP\090203_NWxs.dgn PLOT DATE : 7/31/2007 PLOT BY : $$...plotuser...$$ PLOT NAME : PLOT SCALE : $$.....plotscale.....$$

WISDOT/CADDS SHEET 21



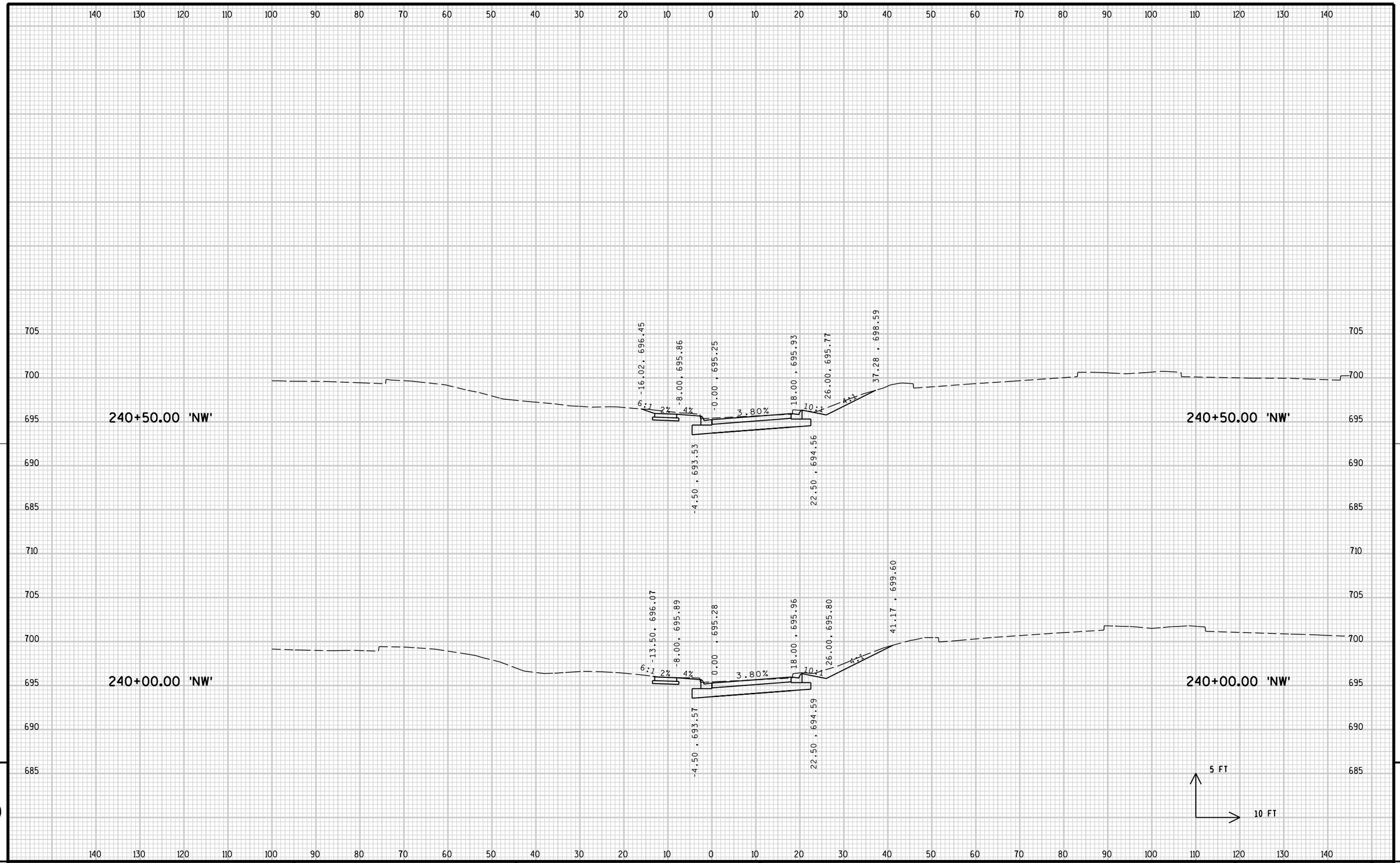
9

9

PROJECT NO: 2140-08-73	HWY: STH 181	COUNTY: MILWAUKEE	CROSS SECTIONS: NW RAMP	SHEET 1100 E

FILE NAME : s:\@SAI\051--100\089\099\Micros\DESIGN\0873\NW_RAMP\090203_NWxs.dgn PLOT DATE : 7/31/2007 PLOT BY : $$...plotuser...$$ PLOT NAME : PLOT SCALE : $$.....plotscale.....$$

WISDOT/CADDS SHEET 21



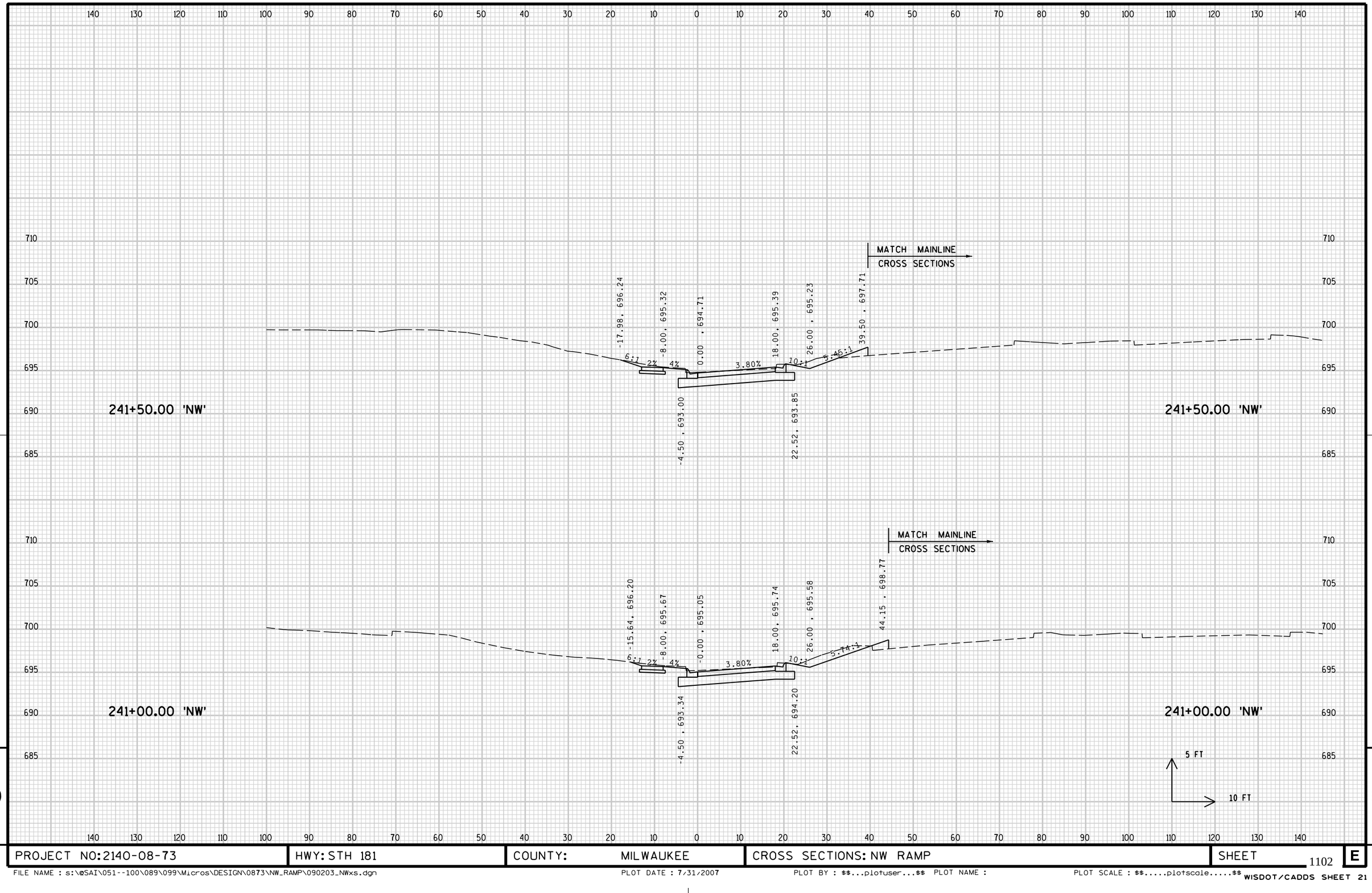
9

9

PROJECT NO: 2140-08-73	HWY: STH 181	COUNTY: MILWAUKEE	CROSS SECTIONS: NW RAMP	SHEET 1101	E

FILE NAME : s:\@SAI\051--100\089\099\Micros\DESIGN\0873\NW_RAMP\090203_NWxs.dgn PLOT DATE : 7/31/2007 PLOT BY : $$...plotuser...$$ PLOT NAME : PLOT SCALE : $$.....plotscale.....$$

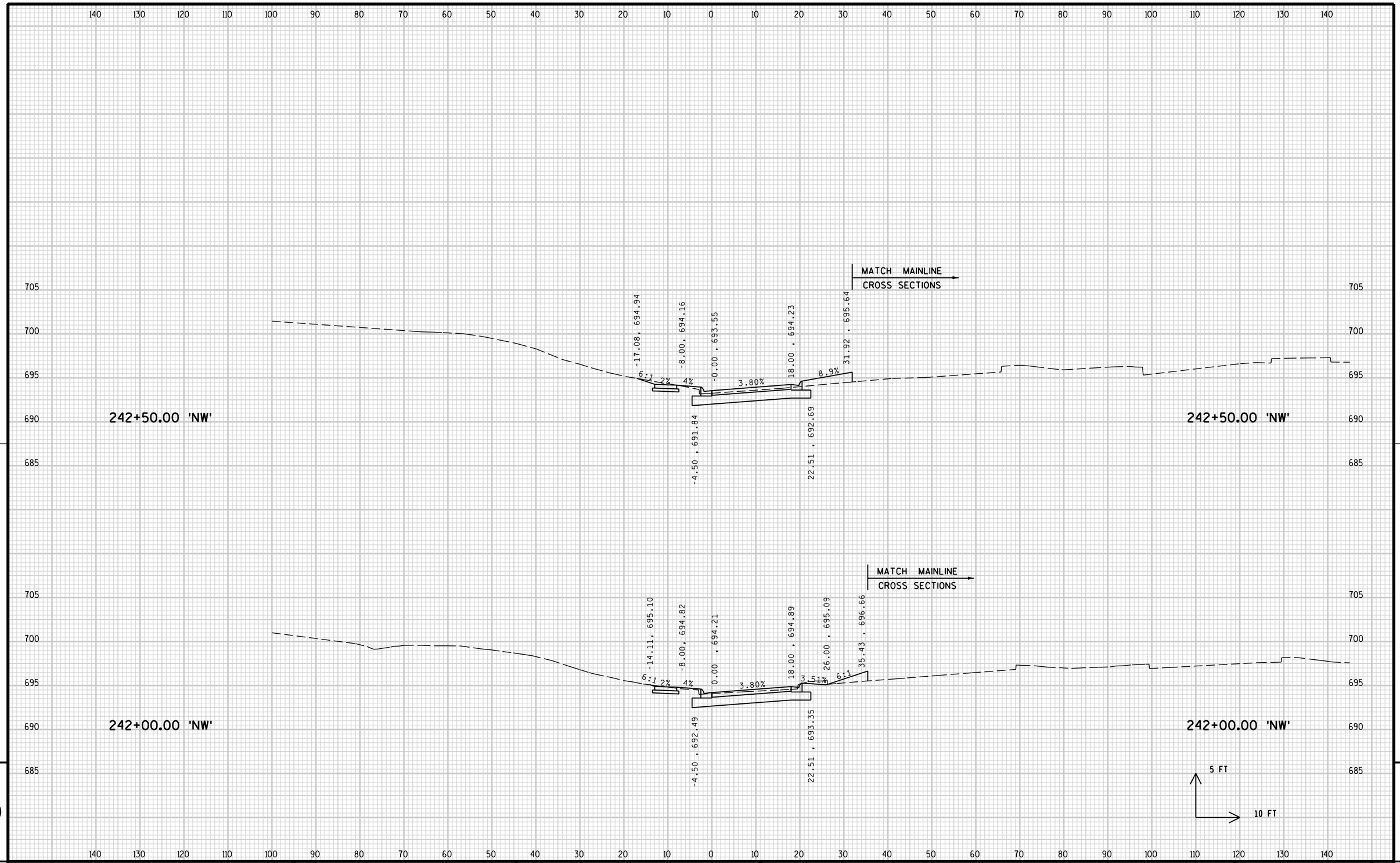
WISDOT/CADDS SHEET 21



9 9

PROJECT NO: 2140-08-73	HWY: STH 181	COUNTY: MILWAUKEE	CROSS SECTIONS: NW RAMP	SHEET 1102	E

FILE NAME : s:\@SAI\051--100\089\099\Micros\DESIGN\0873\NW_RAMP\090203_NWxs.dgn PLOT DATE : 7/31/2007 PLOT BY : $$...plotuser...$$ PLOT NAME : PLOT SCALE : $$.....plotscale.....$$ WISDOT/CADDS SHEET 21

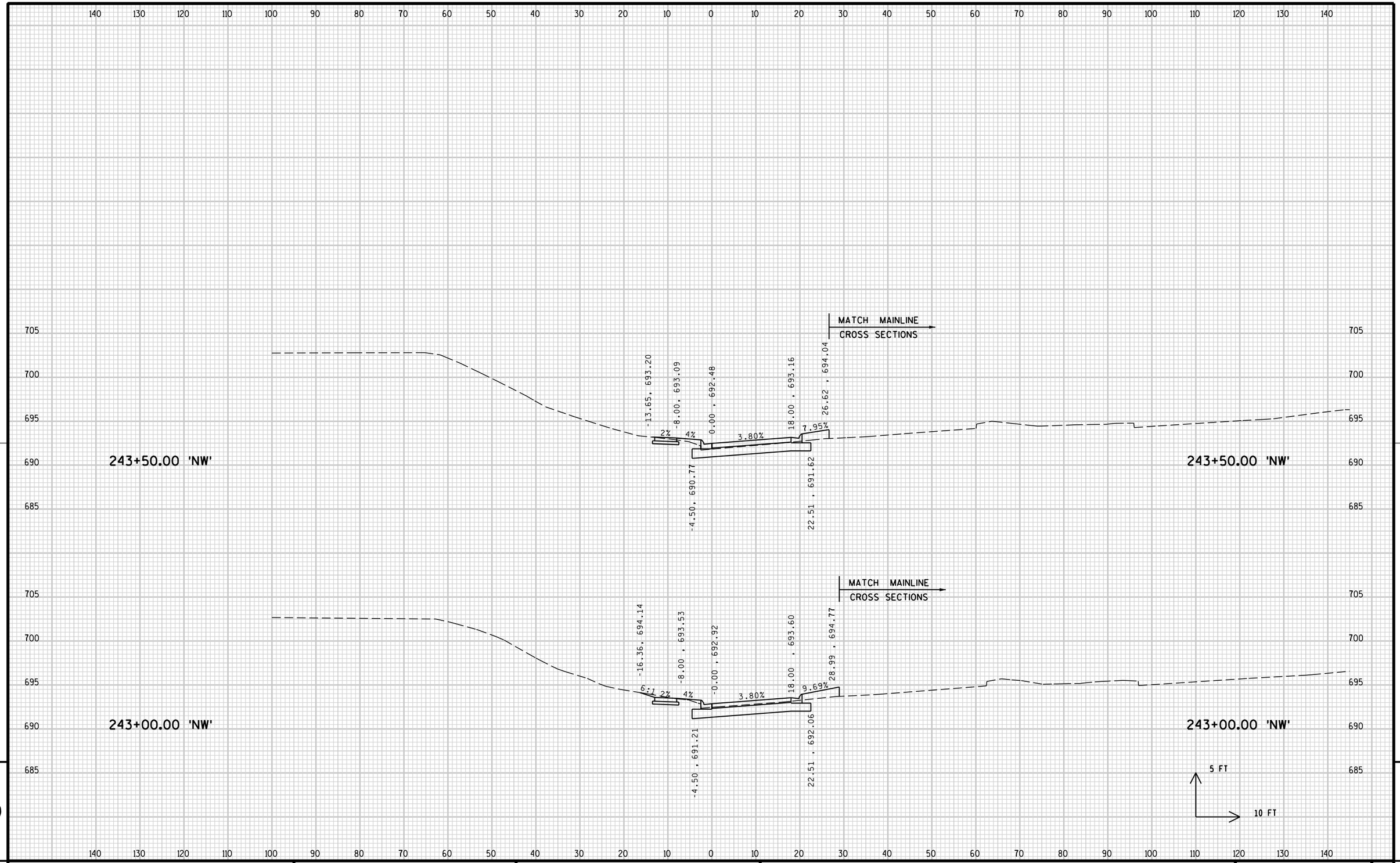


9

9

PROJECT NO: 2140-08-73	HWY: STH 181	COUNTY: MILWAUKEE	CROSS SECTIONS: NW RAMP	SHEET 1103	E

FILE NAME : s:\@SAI\051--100\089\099\Micros\DESIGN\0873\NW_RAMP\090203_NWxs.dgn PLOT DATE : 7/31/2007 PLOT BY : $$...plotuser...$$ PLOT NAME : PLOT SCALE : $$.....plotscale.....$$ WISDOT/CADDS SHEET 21



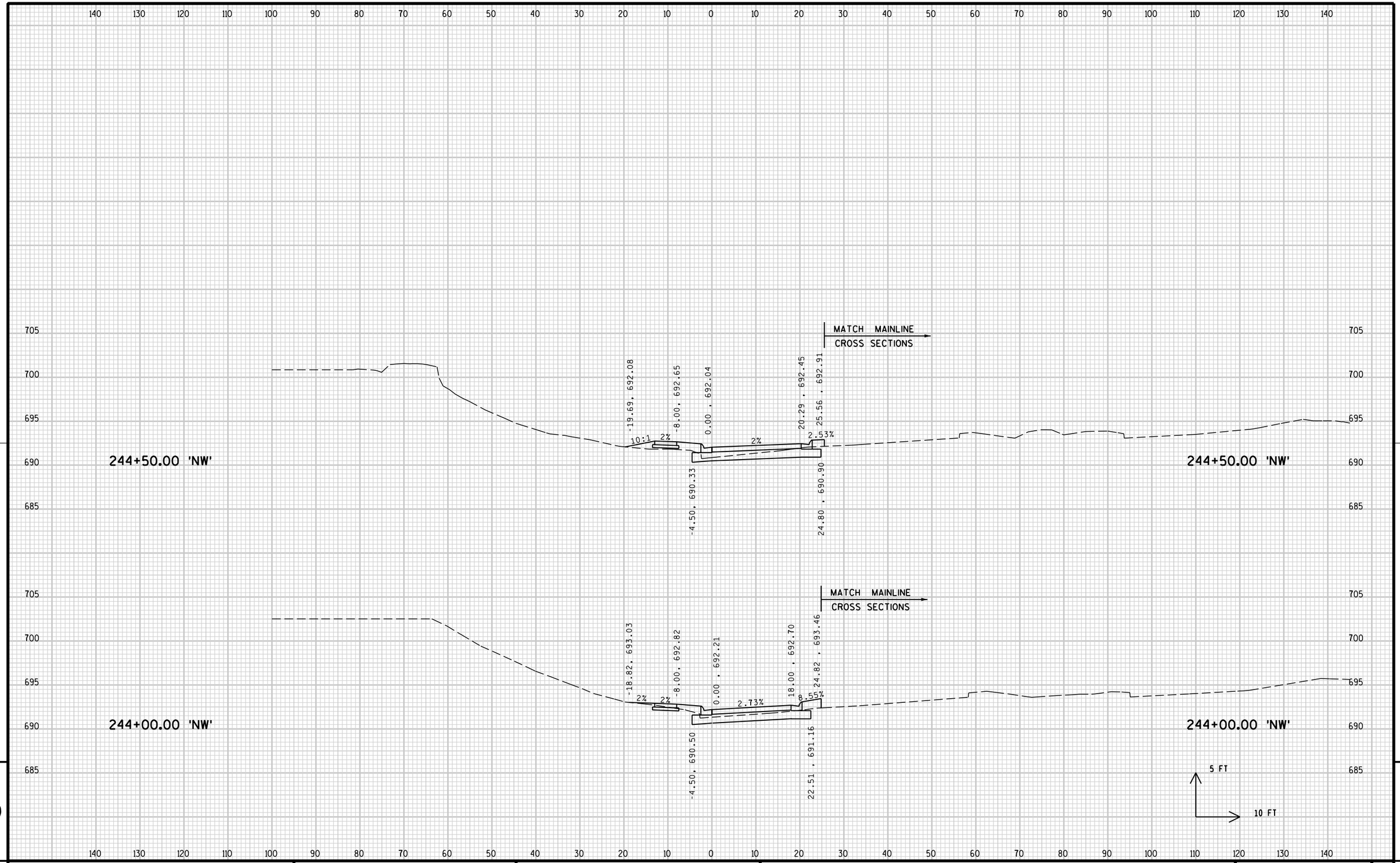
9

9

PROJECT NO: 2140-08-73	HWY: STH 181	COUNTY: MILWAUKEE	CROSS SECTIONS: NW RAMP	SHEET 1104	E

FILE NAME : s:\@SAI\051--100\089\099\Micros\DESIGN\0873\NW_RAMP\090203_NWxs.dgn PLOT DATE : 7/31/2007 PLOT BY : $$...plotuser...$$ PLOT NAME : PLOT SCALE : $$.....plotscale.....$$

WISDOT/CADDS SHEET 21



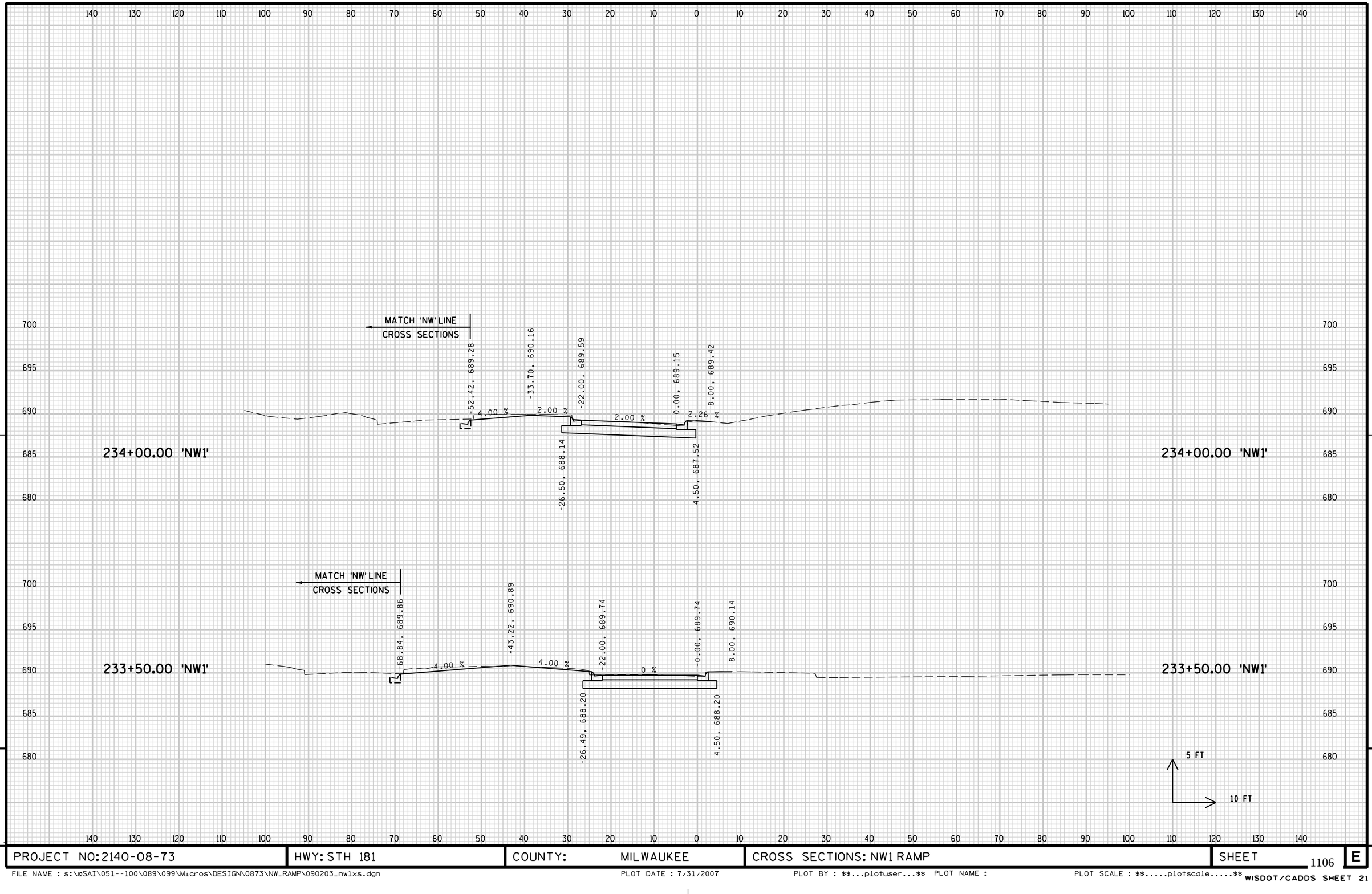
9

9

PROJECT NO: 2140-08-73	HWY: STH 181	COUNTY: MILWAUKEE	CROSS SECTIONS: NW RAMP	SHEET 1105	E

FILE NAME : s:\@SAI\051--100\089\099\Micros\DESIGN\0873\NW_RAMP\090203_NWxs.dgn PLOT DATE : 7/31/2007 PLOT BY : $$...plotuser...$$ PLOT NAME : PLOT SCALE : $$.....plotscale.....$$

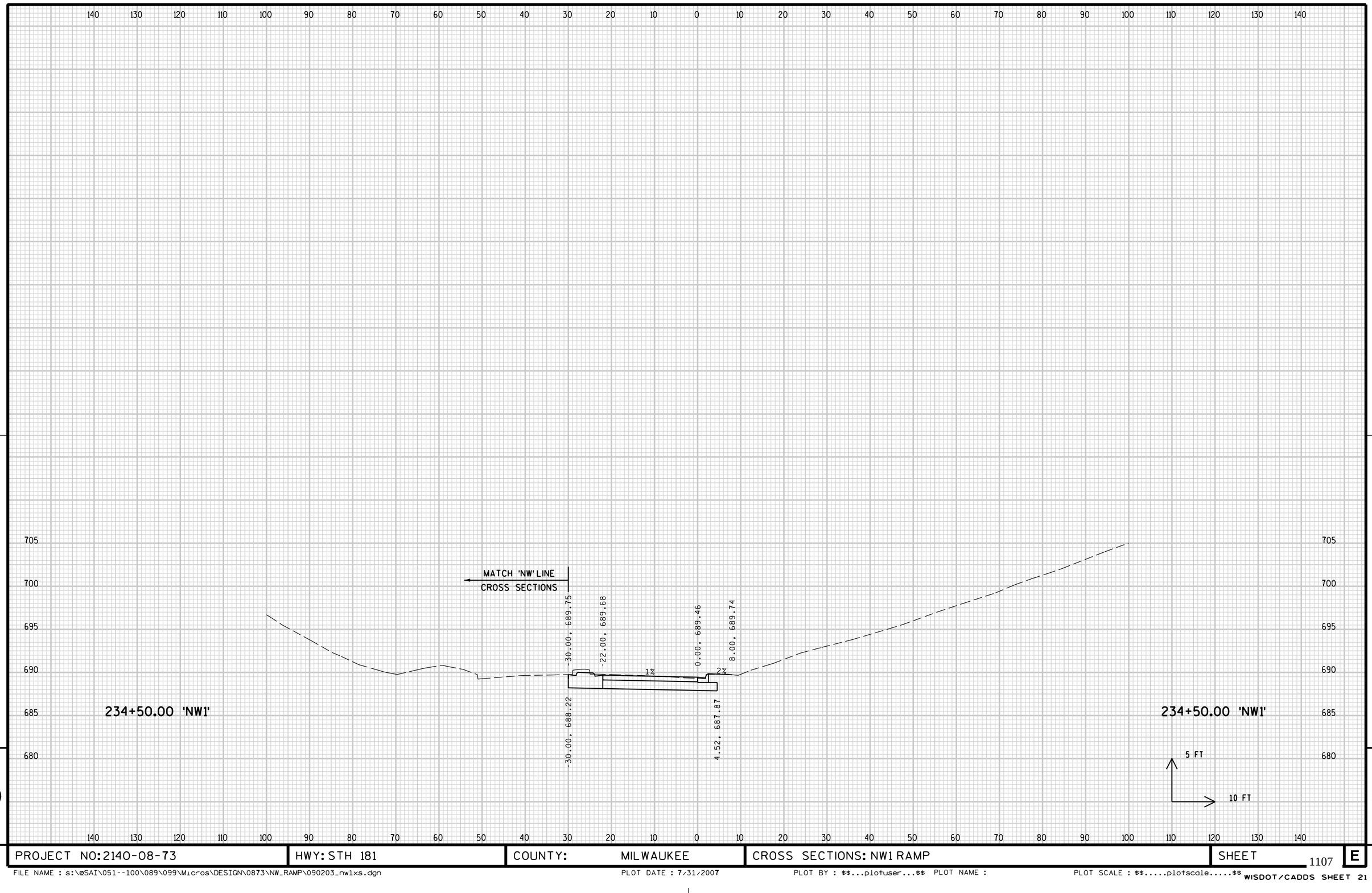
WISDOT/CADDS SHEET 21



PROJECT NO: 2140-08-73	HWY: STH 181	COUNTY: MILWAUKEE	CROSS SECTIONS: NW1 RAMP	SHEET 1106 E

FILE NAME : s:\@SAI\051--100\089\099\Micros\DESIGN\0873\NW_RAMP\090203_nw1xs.dgn PLOT DATE : 7/31/2007 PLOT BY : $$...plotuser...$$ PLOT NAME : PLOT SCALE : $$.....plotscale.....$$

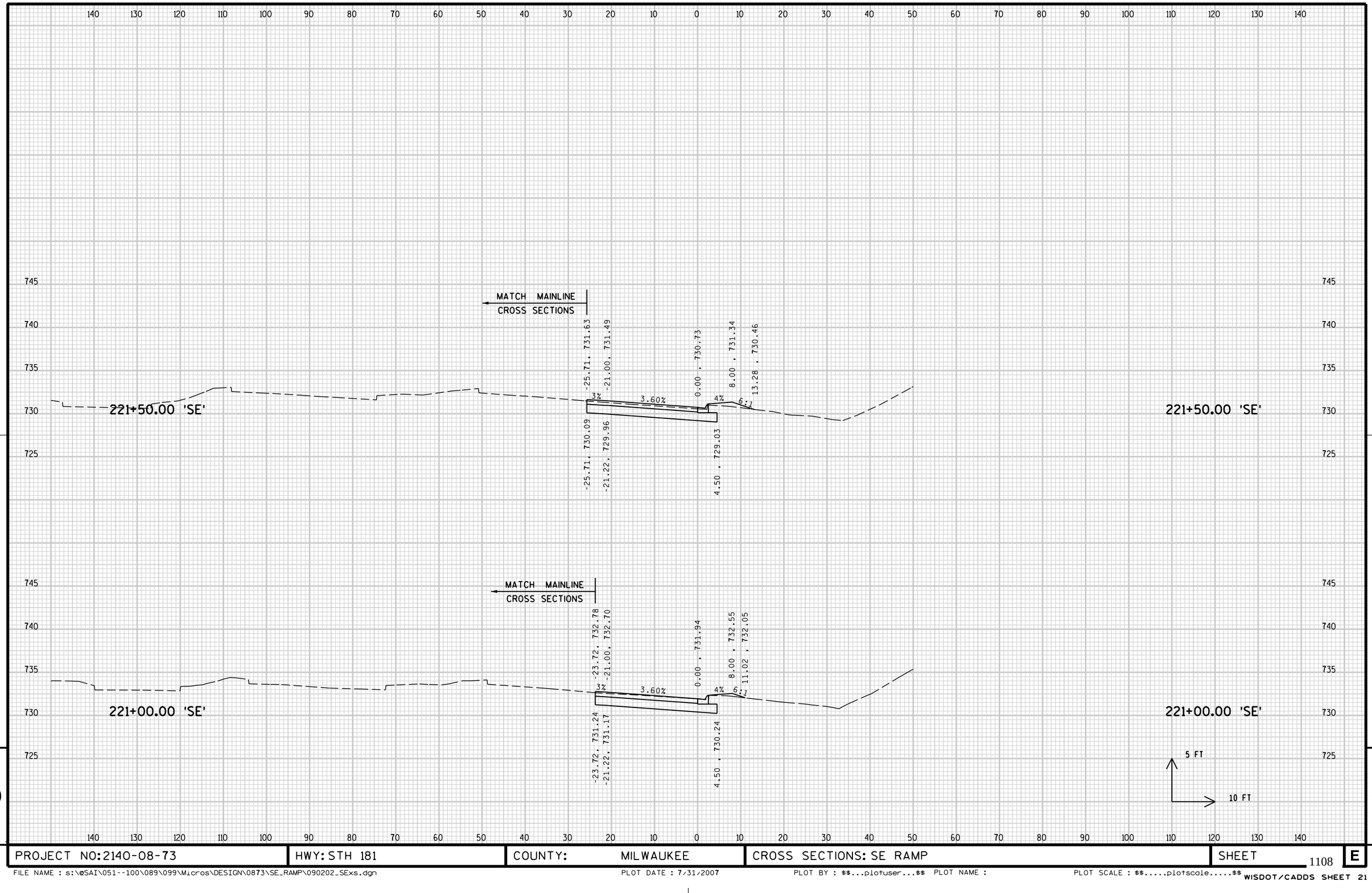
WISDOT/CADDS SHEET 21



9 9

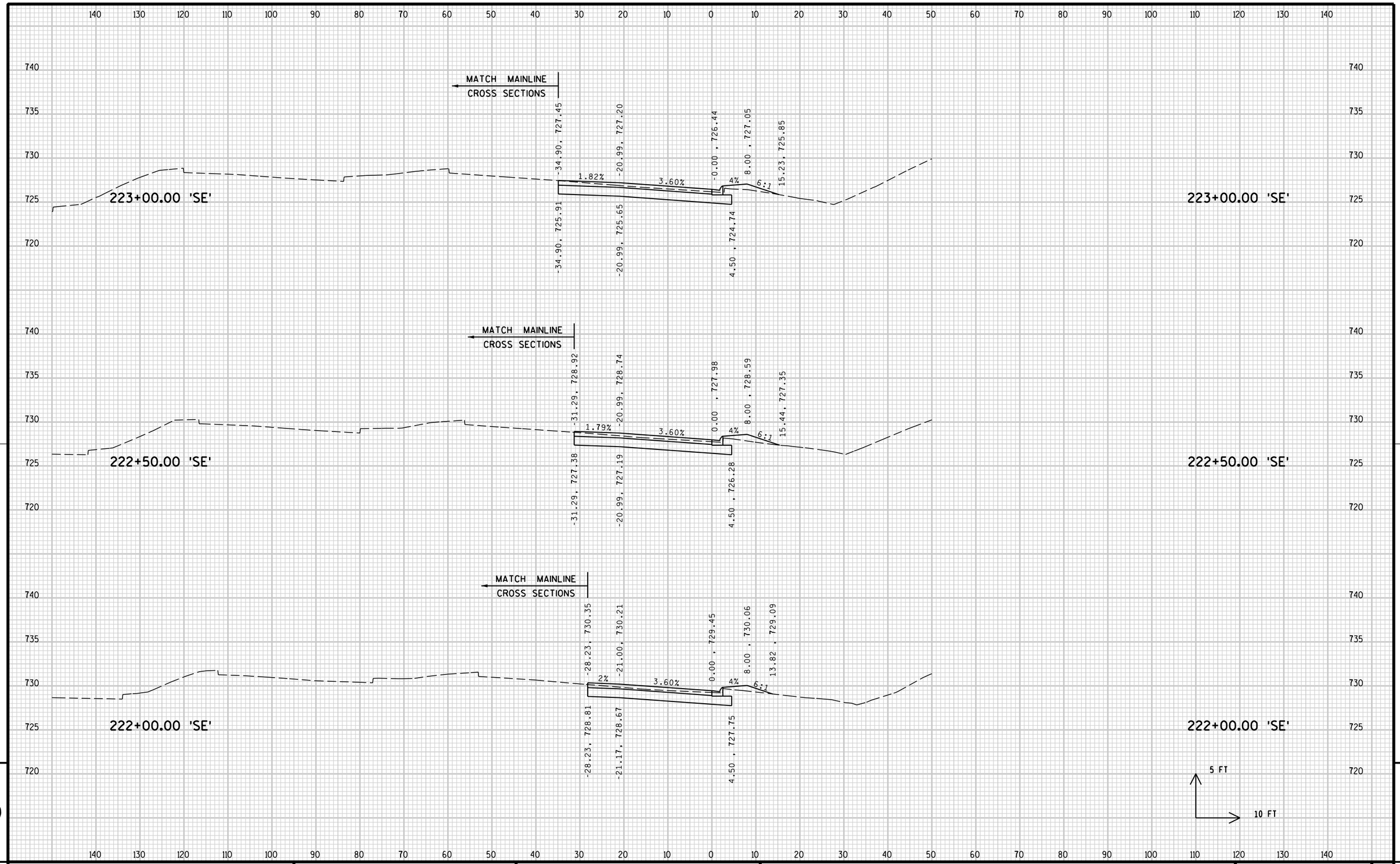
PROJECT NO: 2140-08-73	HWY: STH 181	COUNTY: MILWAUKEE	CROSS SECTIONS: NW1 RAMP	SHEET 1107 E

FILE NAME : s:\@SAI\051--100\089\099\Micros\DESIGN\0873\NW_RAMP\090203_nw1xs.dgn PLOT DATE : 7/31/2007 PLOT BY : $$...plotuser...$$ PLOT NAME : PLOT SCALE : $$.....plotscale.....$$



PROJECT NO:2140-08-73	HWY: STH 181	COUNTY: MILWAUKEE	CROSS SECTIONS: SE RAMP	SHEET 1108 E

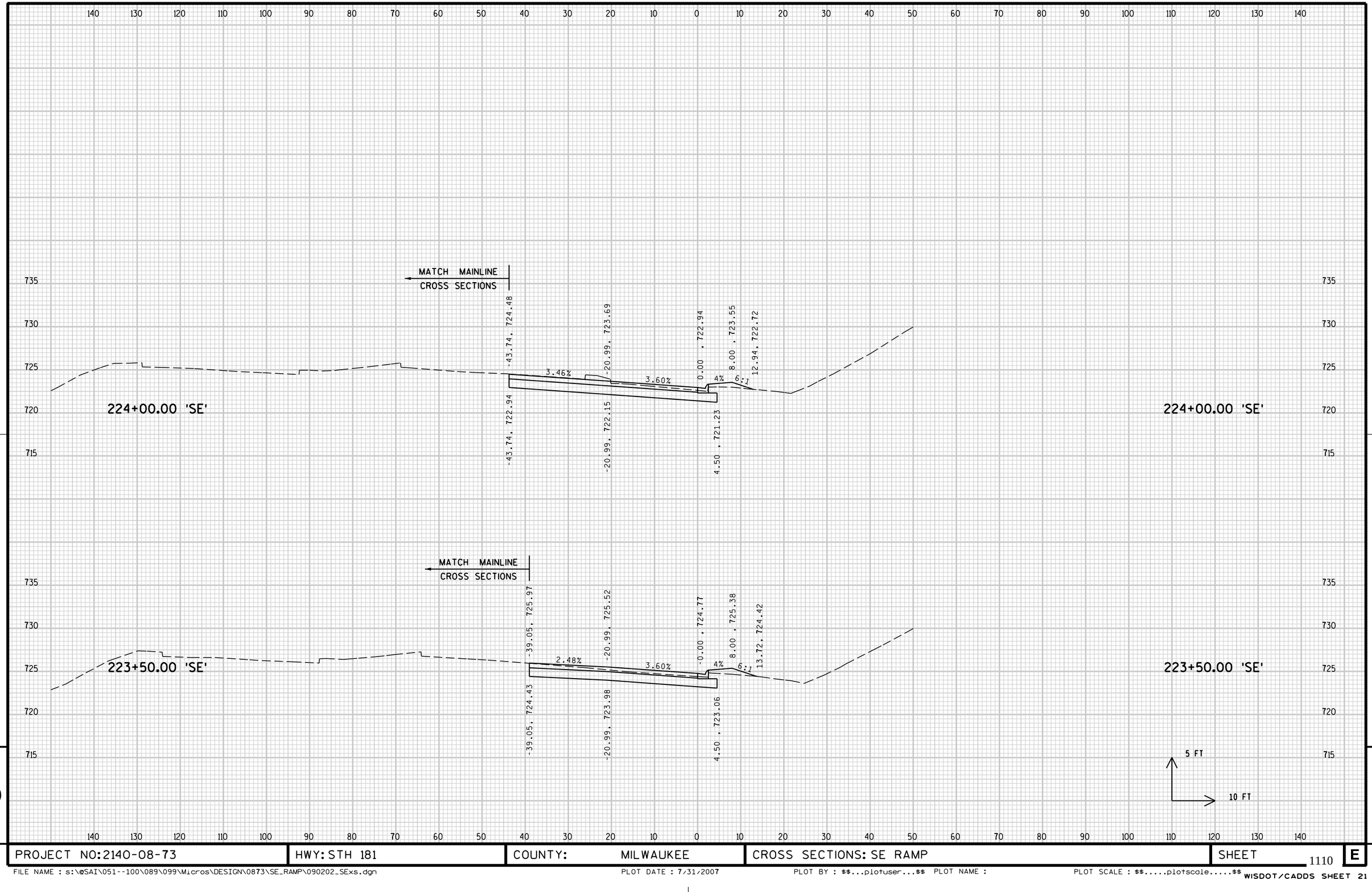
FILE NAME : s:\@SAI\051--100\089\099\Micros\DESIGN\0873\SE_RAMP\090202_SExs.dgn PLOT DATE : 7/31/2007 PLOT BY : $$...plotuser...$$ PLOT NAME : PLOT SCALE : $$.....plotscale.....$$ WISDOT/CADDS SHEET 21



9

PROJECT NO: 2140-08-73	HWY: STH 181	COUNTY: MILWAUKEE	CROSS SECTIONS: SE RAMP	SHEET	E

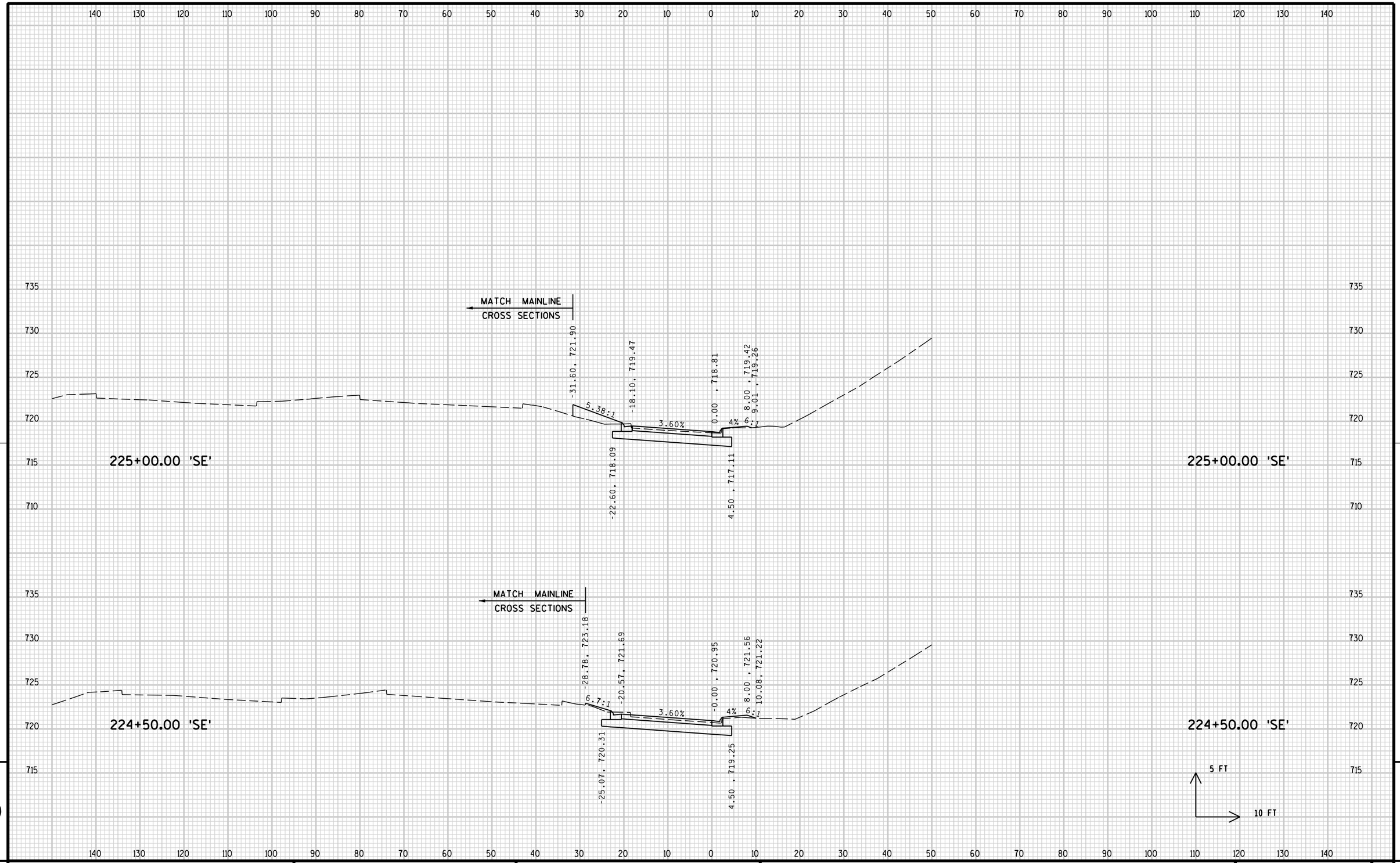
FILE NAME : s:\@SAI\051--100\089\099\Micros\DESIGN\0873\SE_RAMP\090202_SExs.dgn PLOT DATE : 7/31/2007 PLOT BY : $$...plotuser...$$ PLOT NAME : PLOT SCALE : $$.....plotscale.....$$ WISDOT/CADDS SHEET 21



PROJECT NO: 2140-08-73	HWY: STH 181	COUNTY: MILWAUKEE	CROSS SECTIONS: SE RAMP	SHEET 1110	E

FILE NAME : s:\@SAI\051--100\089\099\Micros\DESIGN\0873\SE_RAMP\090202_SExs.dgn PLOT DATE : 7/31/2007 PLOT BY : $$...plotuser...$$ PLOT NAME : PLOT SCALE : $$.....plotscale.....$$

WISDOT/CADDS SHEET 21



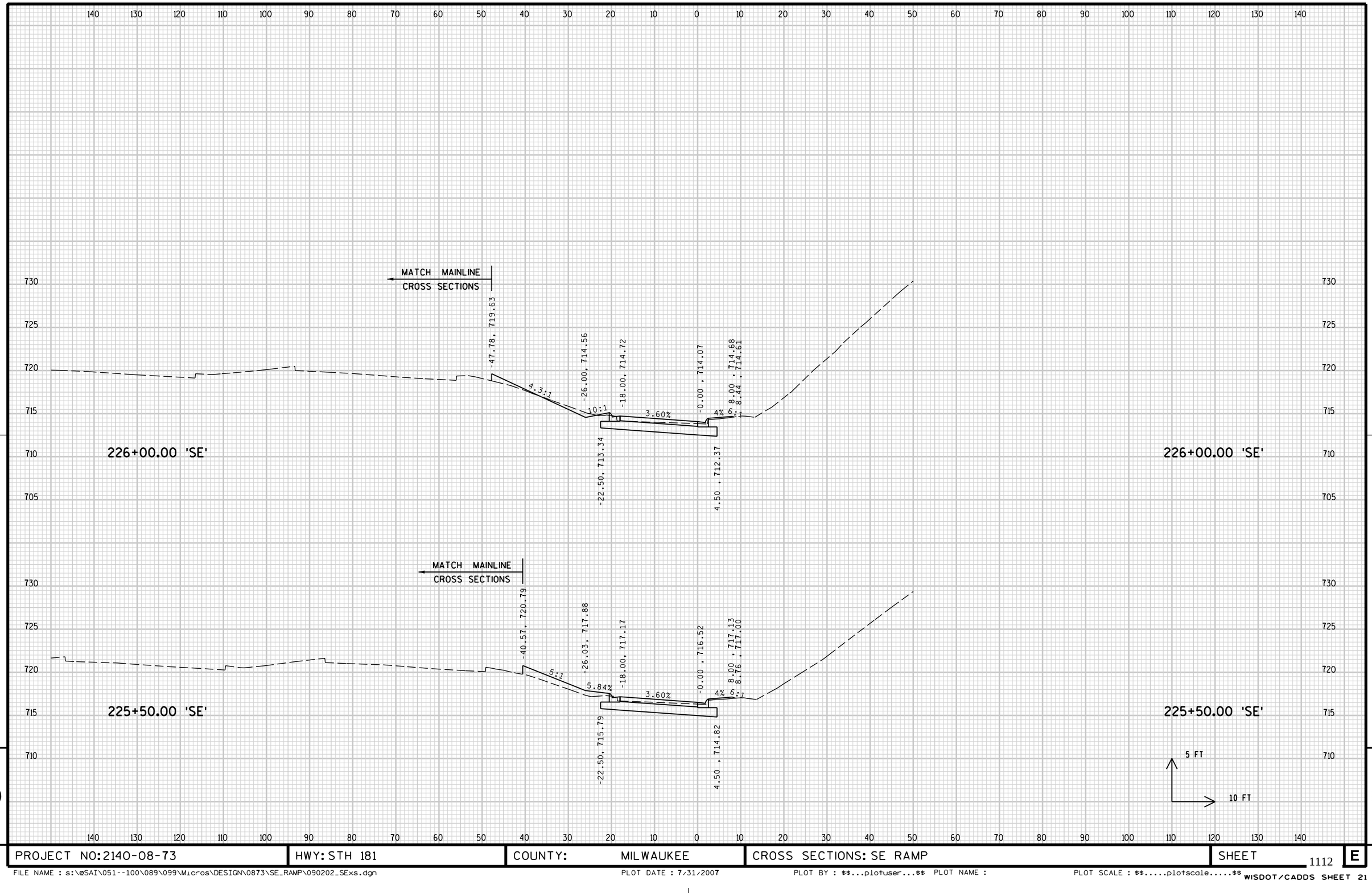
9

9

PROJECT NO: 2140-08-73	HWY: STH 181	COUNTY: MILWAUKEE	CROSS SECTIONS: SE RAMP	SHEET 1111	E

FILE NAME : s:\@SAI\051--100\089\099\Micros\DESIGN\0873\SE_RAMP\090202_SExs.dgn PLOT DATE : 7/31/2007 PLOT BY : $$...plotuser...$$ PLOT NAME : PLOT SCALE : $$.....plotscale.....$$

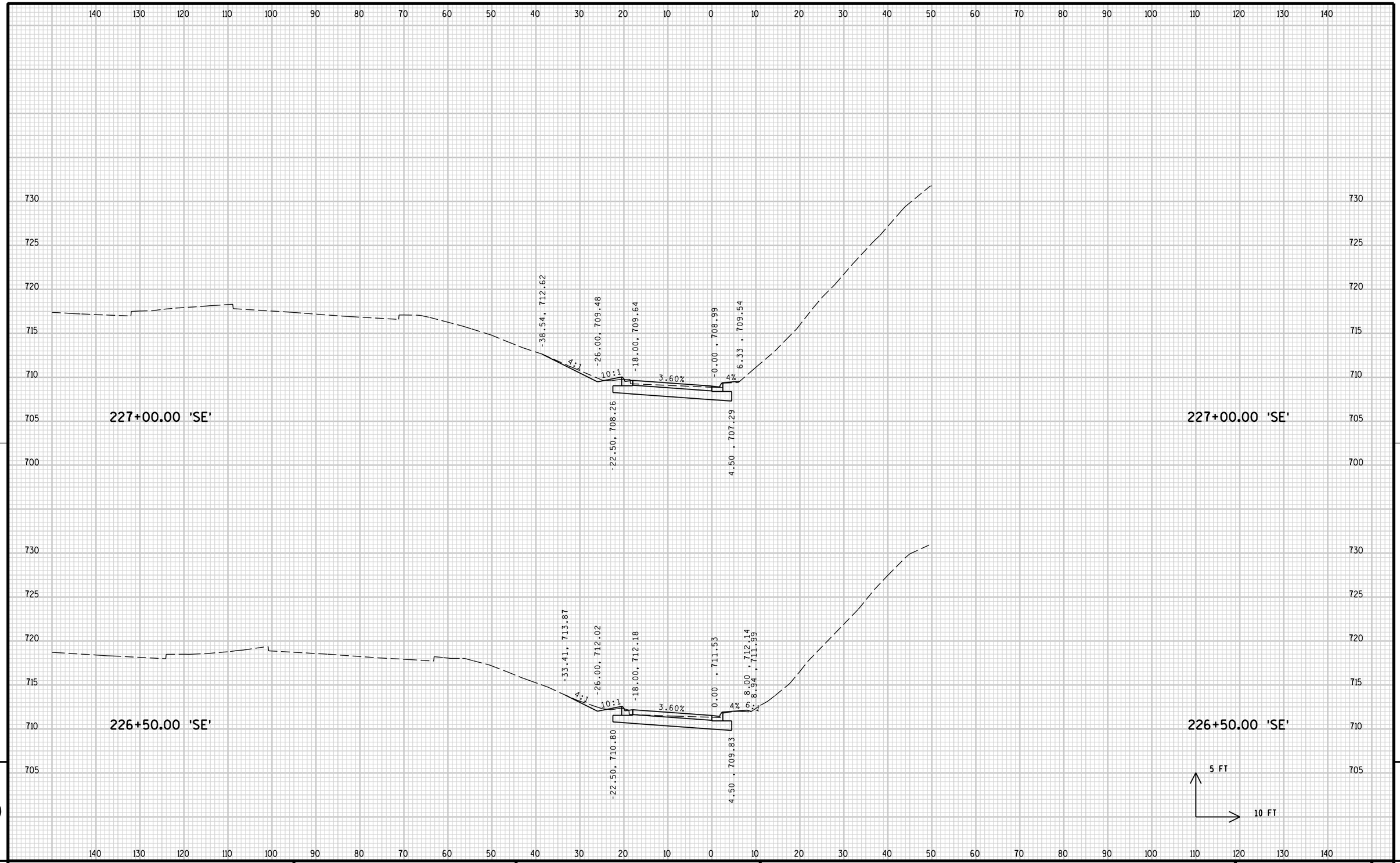
WISDOT/CADDS SHEET 21



9

PROJECT NO: 2140-08-73	HWY: STH 181	COUNTY: MILWAUKEE	CROSS SECTIONS: SE RAMP	SHEET 1112	E

FILE NAME : s:\@SAI\051--100\089\099\Micros\DESIGN\0873\SE_RAMP\090202_SExs.dgn PLOT DATE : 7/31/2007 PLOT BY : $$...plotuser...$$ PLOT NAME : PLOT SCALE : $$.....plotscale.....$$ WISDOT/CADDS SHEET 21



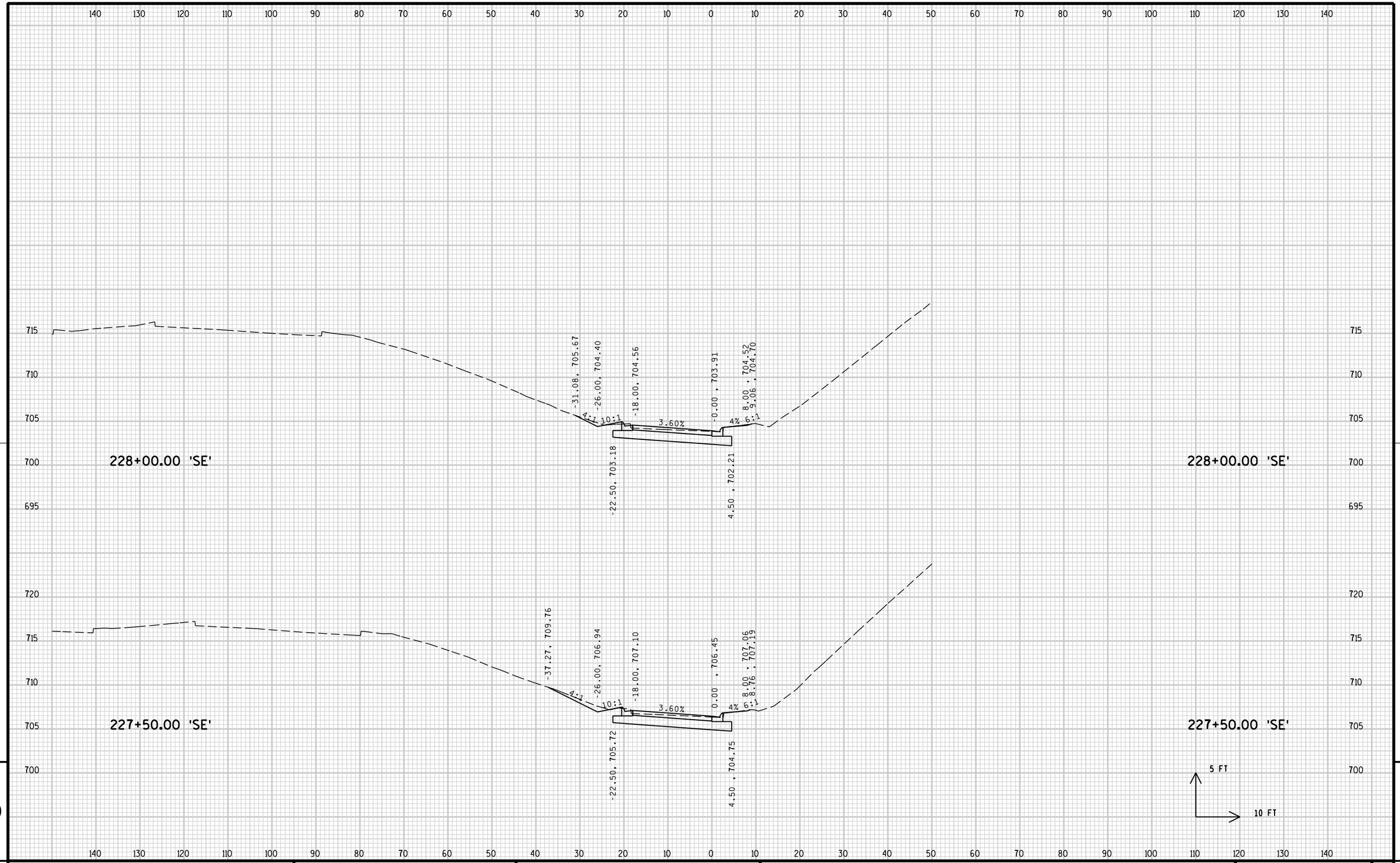
9

9

PROJECT NO: 2140-08-73	HWY: STH 181	COUNTY: MILWAUKEE	CROSS SECTIONS: SE RAMP	SHEET 1113	E

FILE NAME : s:\@SAI\051--100\089\099\Micros\DESIGN\0873\SE_RAMP\090202_SExs.dgn PLOT DATE : 7/31/2007 PLOT BY : $$...plotuser...$$ PLOT NAME : PLOT SCALE : $$.....plotscale.....$$

WISDOT/CADDS SHEET 21



PROJECT NO: 2140-08-73	HWY: STH 181	COUNTY: MILWAUKEE	CROSS SECTIONS: SE RAMP	SHEET 1114	E

FILE NAME : s:\@SAI\051--100\089\099\Micros\DESIGN\0873\SE_RAMP\090202_SExs.dgn PLOT DATE : 7/31/2007 PLOT BY : $$...plotuser...$$ PLOT NAME : PLOT SCALE : $$.....plotscale.....$$

WISDOT/CADDS SHEET 21

140 130 120 110 100 90 80 70 60 50 40 30 20 10 0 10 20 30 40 50 60 70 80 90 100 110 120 130 140

715
710
705
700
695

229+00.00 'SE'

-43.54, 702.00
-29.28, 699.43
-21.27, 699.59
0.00 , 698.83
8.00 , 699.44
11.18, 699.97
5.55:1
10:1
3.60%
4%
6:1
-25.77, 698.21
4.50 , 697.12

229+00.00 'SE'

690

715
710
705
700
695

228+50.00 'SE'

-37.02, 703.73
-26.80, 701.89
-18.79, 702.05
-0.00 , 701.37
8.00 , 701.98
9.99 , 702.31
5.56:1
10:1
3.60%
4%
6:1
-23.30, 700.67
4.50 , 699.67

228+50.00 'SE'

5 FT
10 FT

9

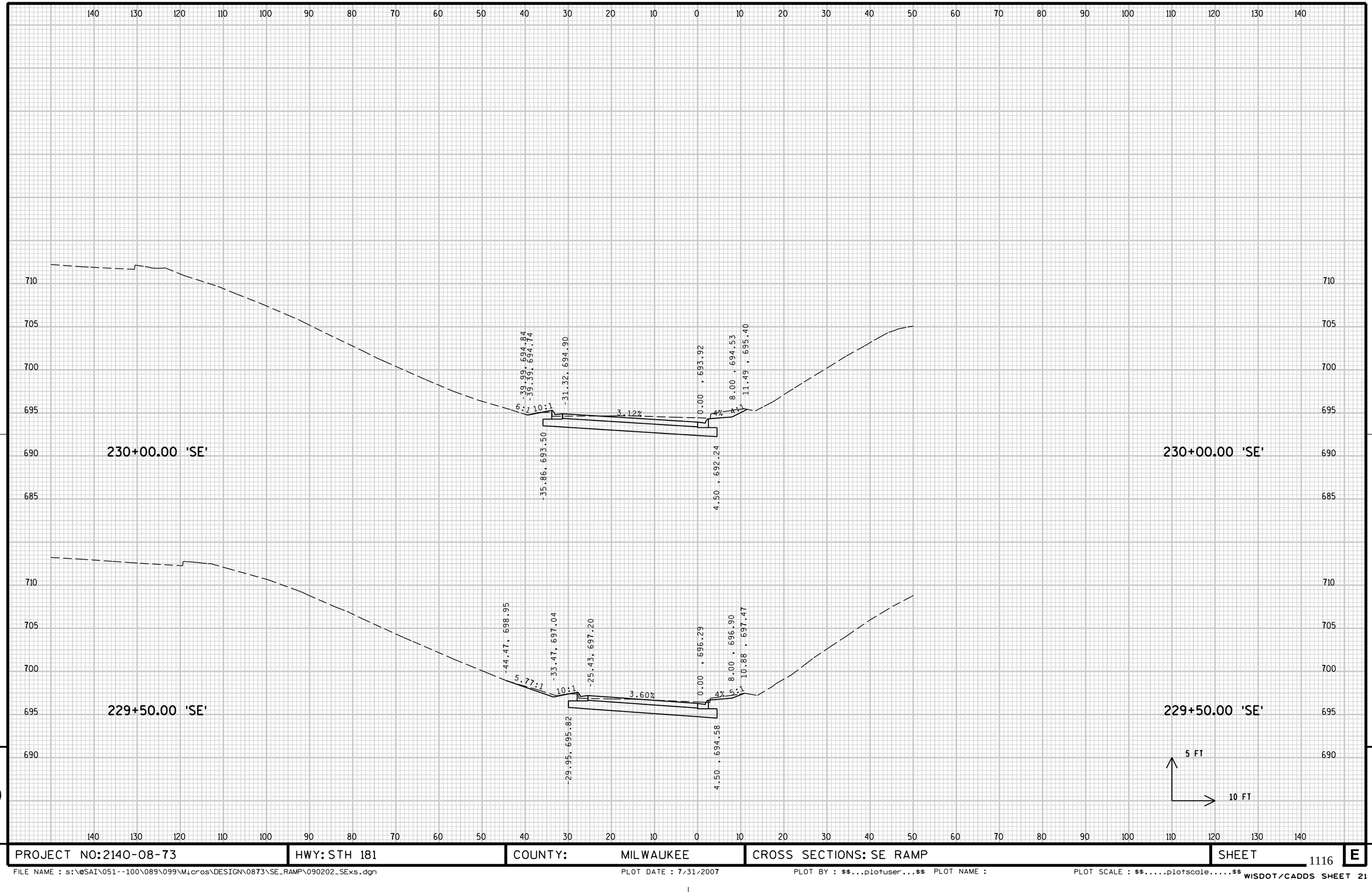
9

140 130 120 110 100 90 80 70 60 50 40 30 20 10 0 10 20 30 40 50 60 70 80 90 100 110 120 130 140

PROJECT NO: 2140-08-73	HWY: STH 181	COUNTY: MILWAUKEE	CROSS SECTIONS: SE RAMP	SHEET 1115	E

FILE NAME : s:\@SAI\051--100\089\099\Micros\DESIGN\0873\SE_RAMP\090202_SExs.dgn PLOT DATE : 7/31/2007 PLOT BY : $$...plotuser...$$ PLOT NAME : PLOT SCALE : $$.....plotscale.....$$

WISDOT/CADDS SHEET 21



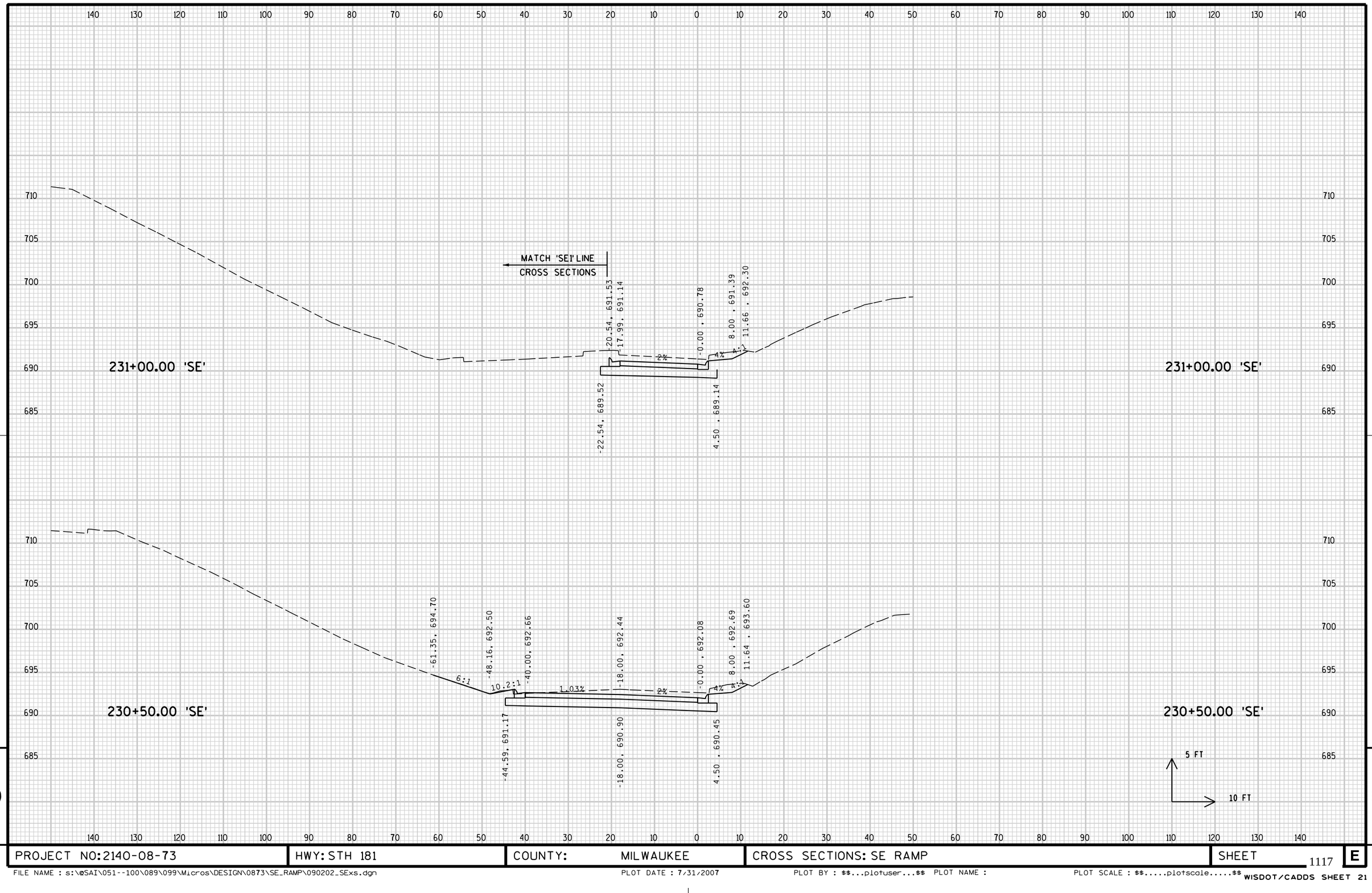
9

9

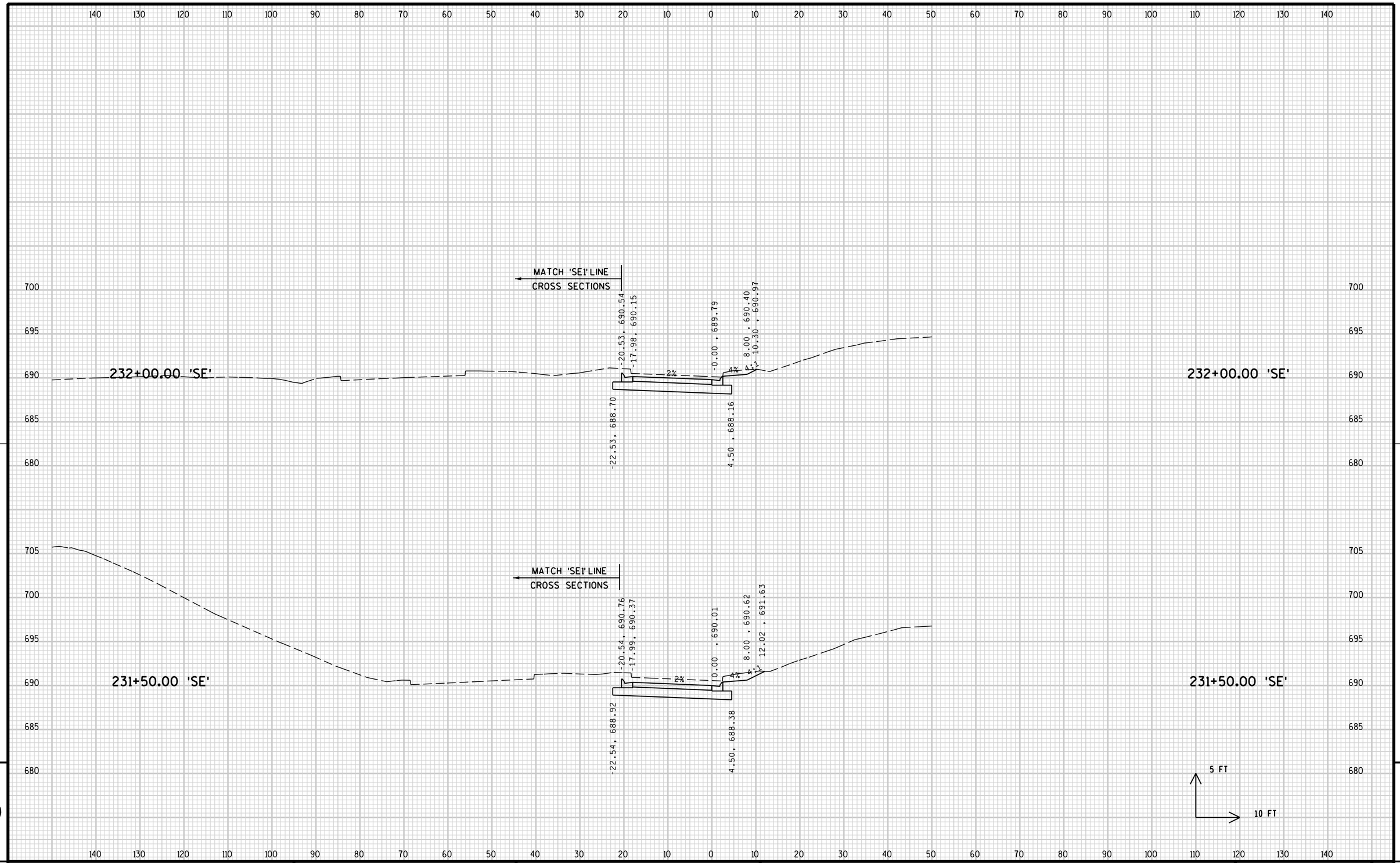
PROJECT NO: 2140-08-73	HWY: STH 181	COUNTY: MILWAUKEE	CROSS SECTIONS: SE RAMP	SHEET 1116 E

FILE NAME : s:\@SAI\051--100\089\099\Micros\DESIGN\0873\SE_RAMP\090202_SExs.dgn PLOT DATE : 7/31/2007 PLOT BY : $$...plotuser...$$ PLOT NAME : PLOT SCALE : $$.....plotscale.....$$

WISDOT/CADDS SHEET 21



PROJECT NO: 2140-08-73	HWY: STH 181	COUNTY: MILWAUKEE	CROSS SECTIONS: SE RAMP	SHEET 1117	E

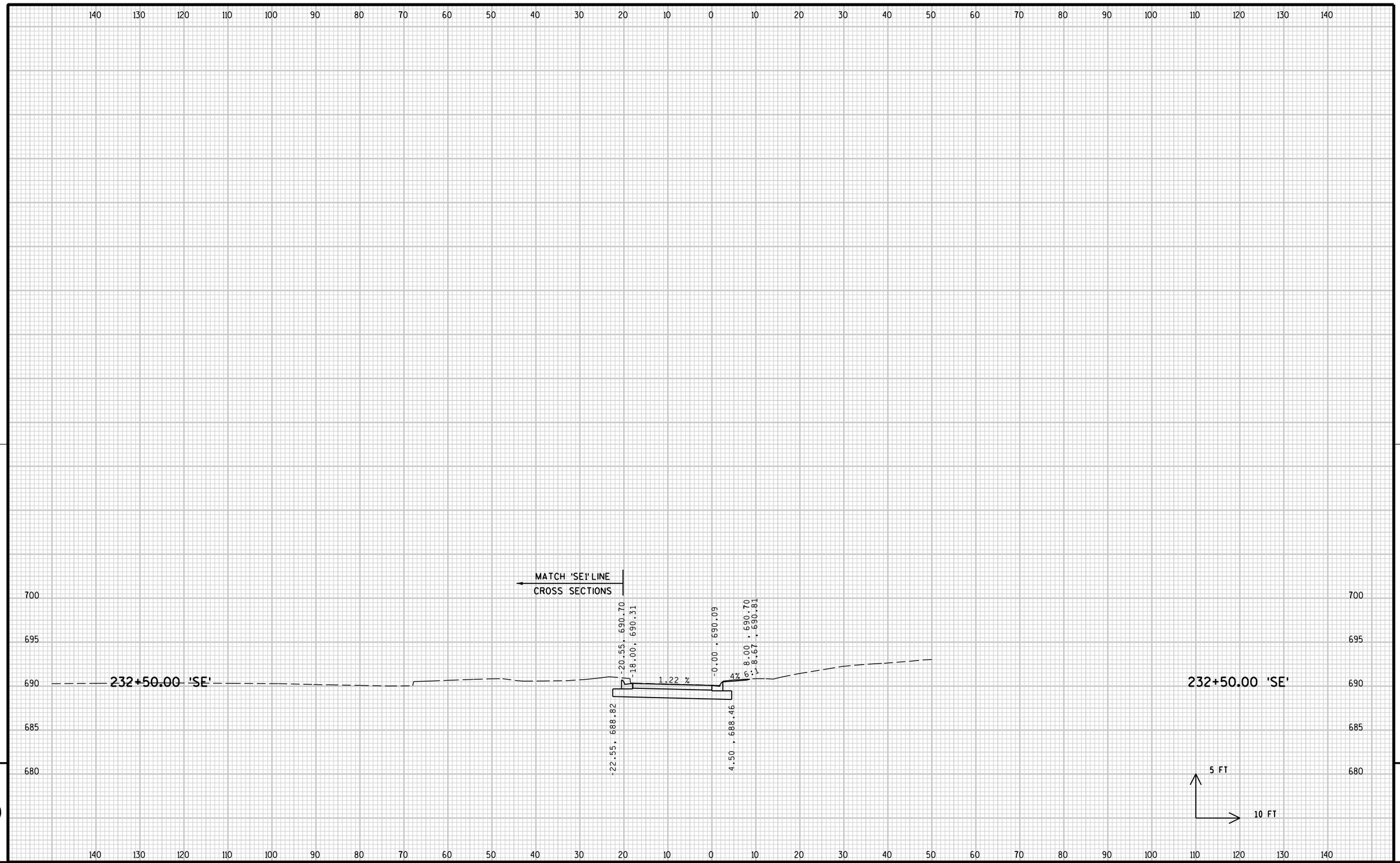


9

9

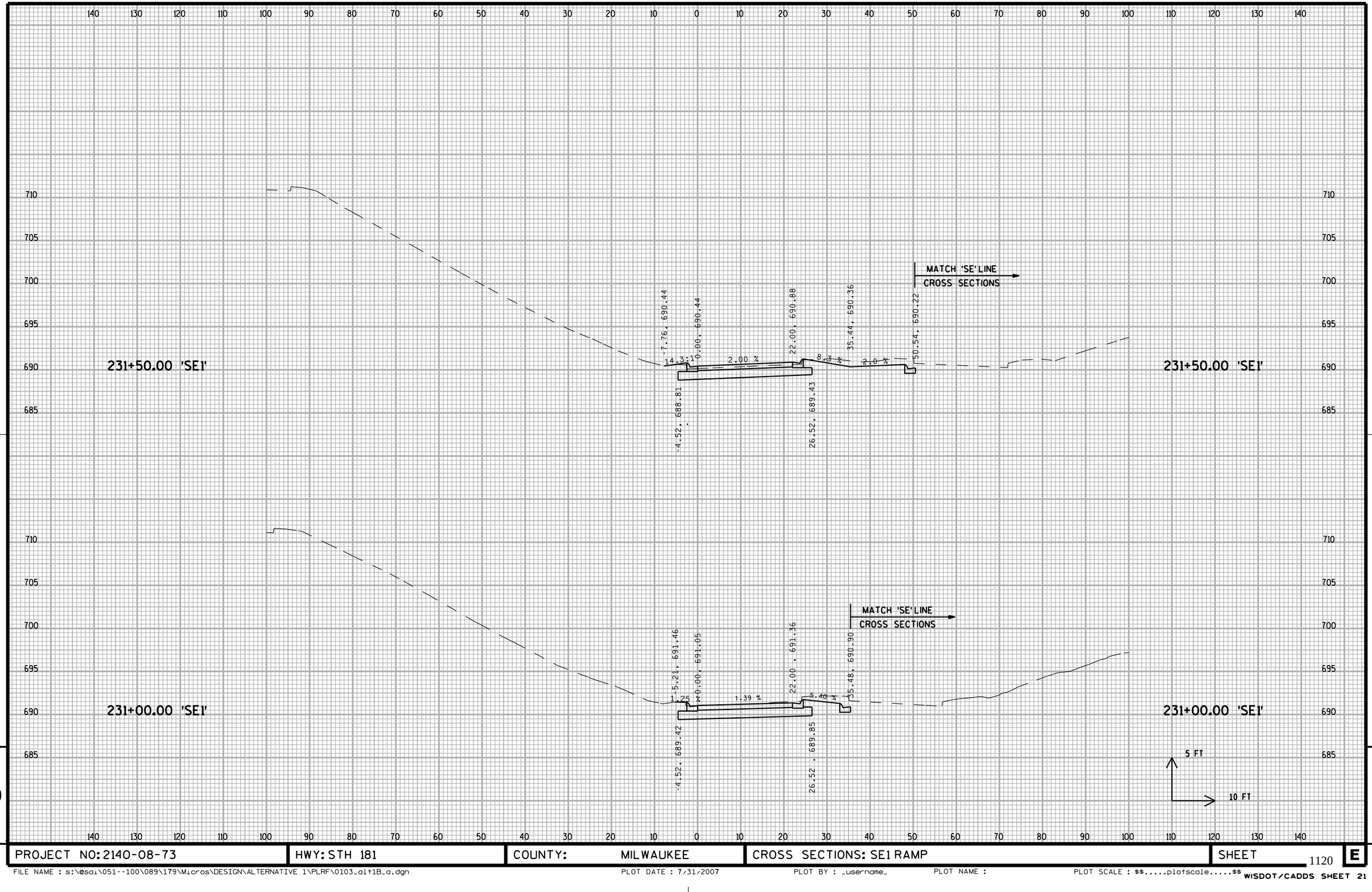
PROJECT NO: 2140-08-73	HWY: STH 181	COUNTY: MILWAUKEE	CROSS SECTIONS: SE RAMP	SHEET 1118	E

FILE NAME : s:\@SAI\051--100\089\099\Micros\DESIGN\0873\SE_RAMP\090202_SExs.dgn PLOT DATE : 7/31/2007 PLOT BY : $$...plotuser...$$ PLOT NAME : PLOT SCALE : $$.....plotscale.....$$ WISDOT/CADDS SHEET 21



9 9

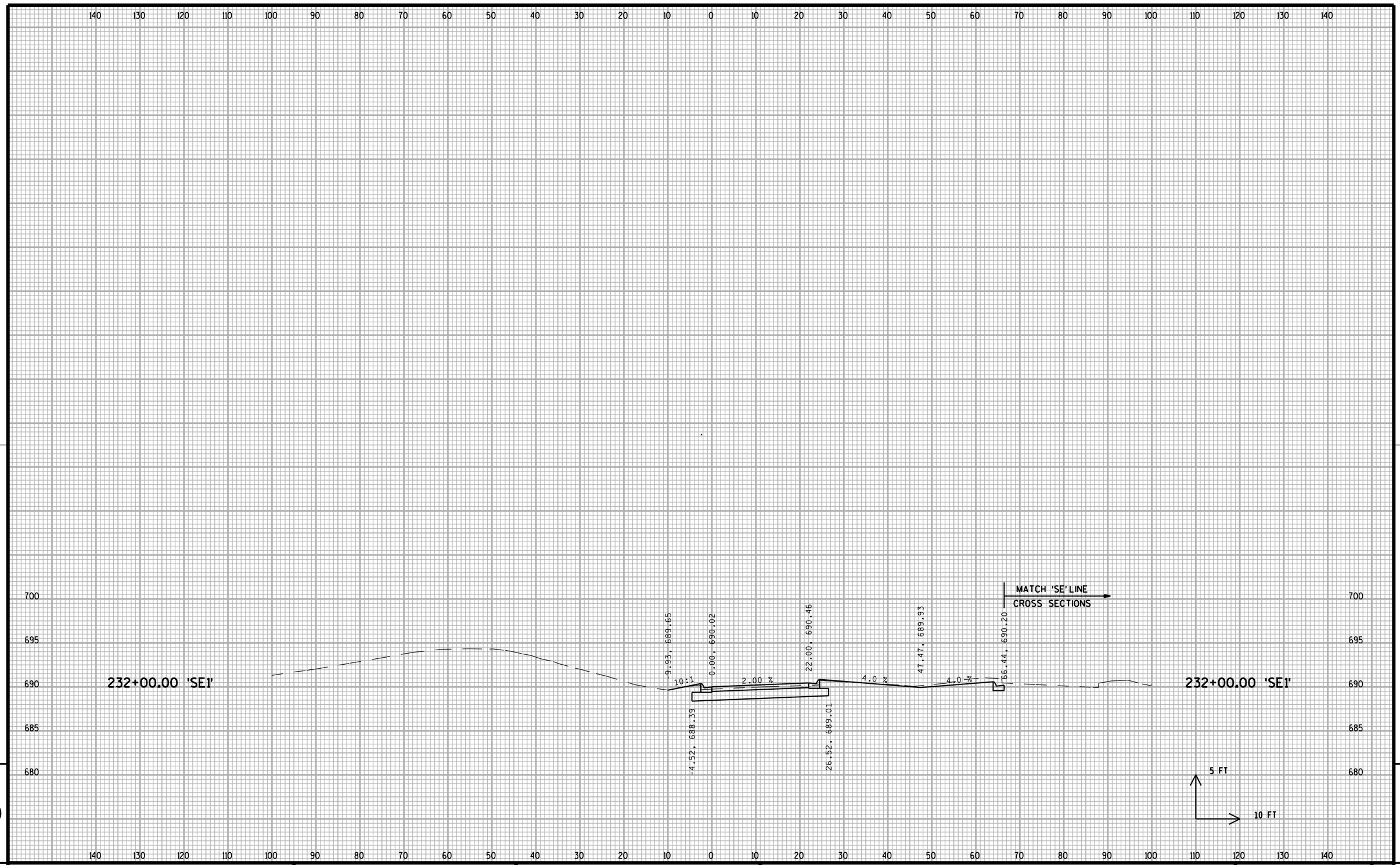
PROJECT NO: 2140-08-73	HWY: STH 181	COUNTY: MILWAUKEE	CROSS SECTIONS: SE RAMP	SHEET 1119	E



9

9

PROJECT NO: 2140-08-73	HWY: STH 181	COUNTY: MILWAUKEE	CROSS SECTIONS: SE1 RAMP	SHEET 1120	E



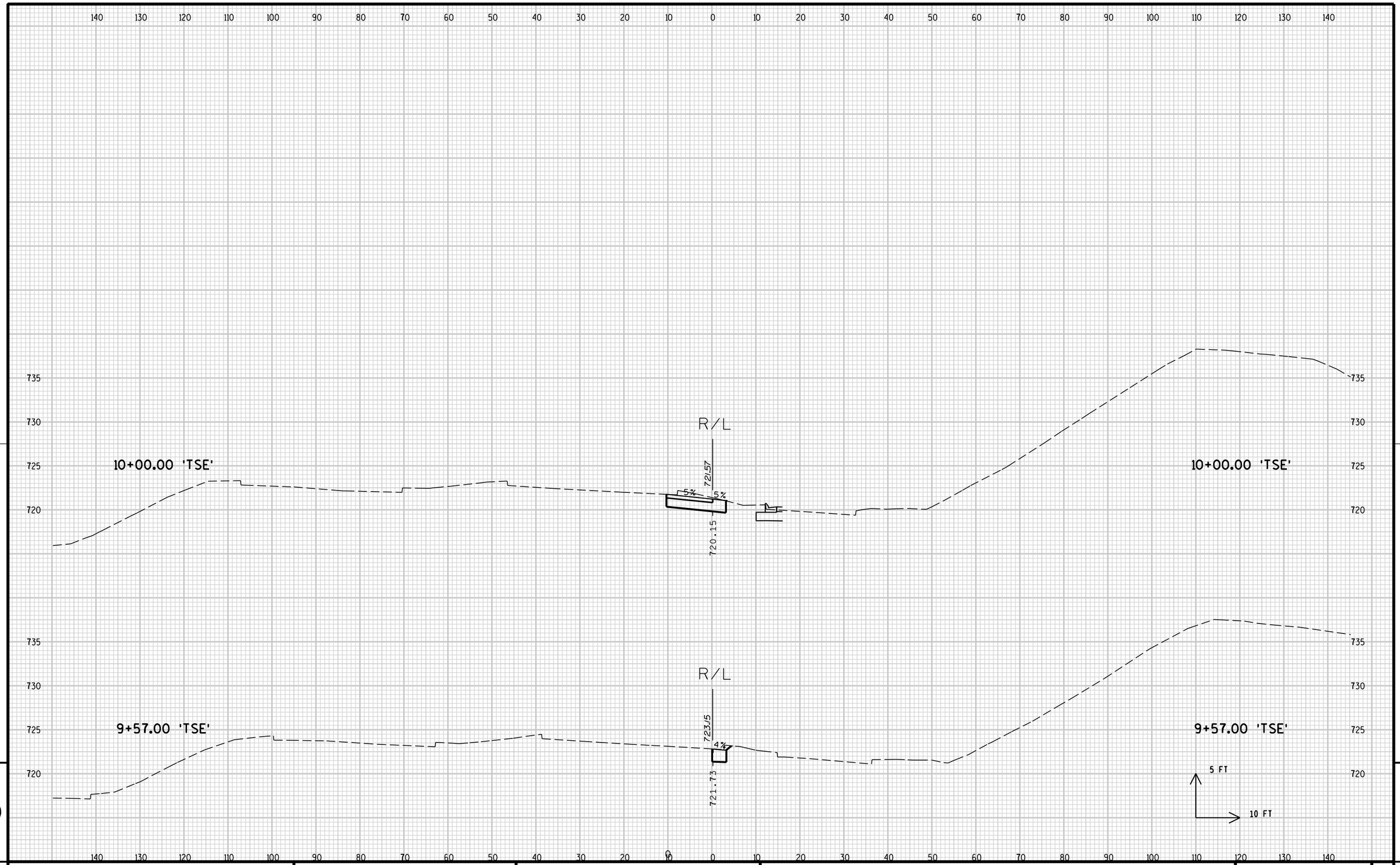
9

9

PROJECT NO: 2140-08-73	HWY: STH 181	COUNTY: MILWAUKEE	CROSS SECTIONS: SE1 RAMP	SHEET 1121	E

FILE NAME : s:\@sai\051--100\089\179\Micros\DESIGN\ALTERNATIVE 1\PLRF\0103_alt1B_a.dgn PLOT DATE : 7/31/2007 PLOT BY : _username_ PLOT NAME : PLOT SCALE : $$.....plotscale.....$$

WISDOT/CADDS SHEET 21



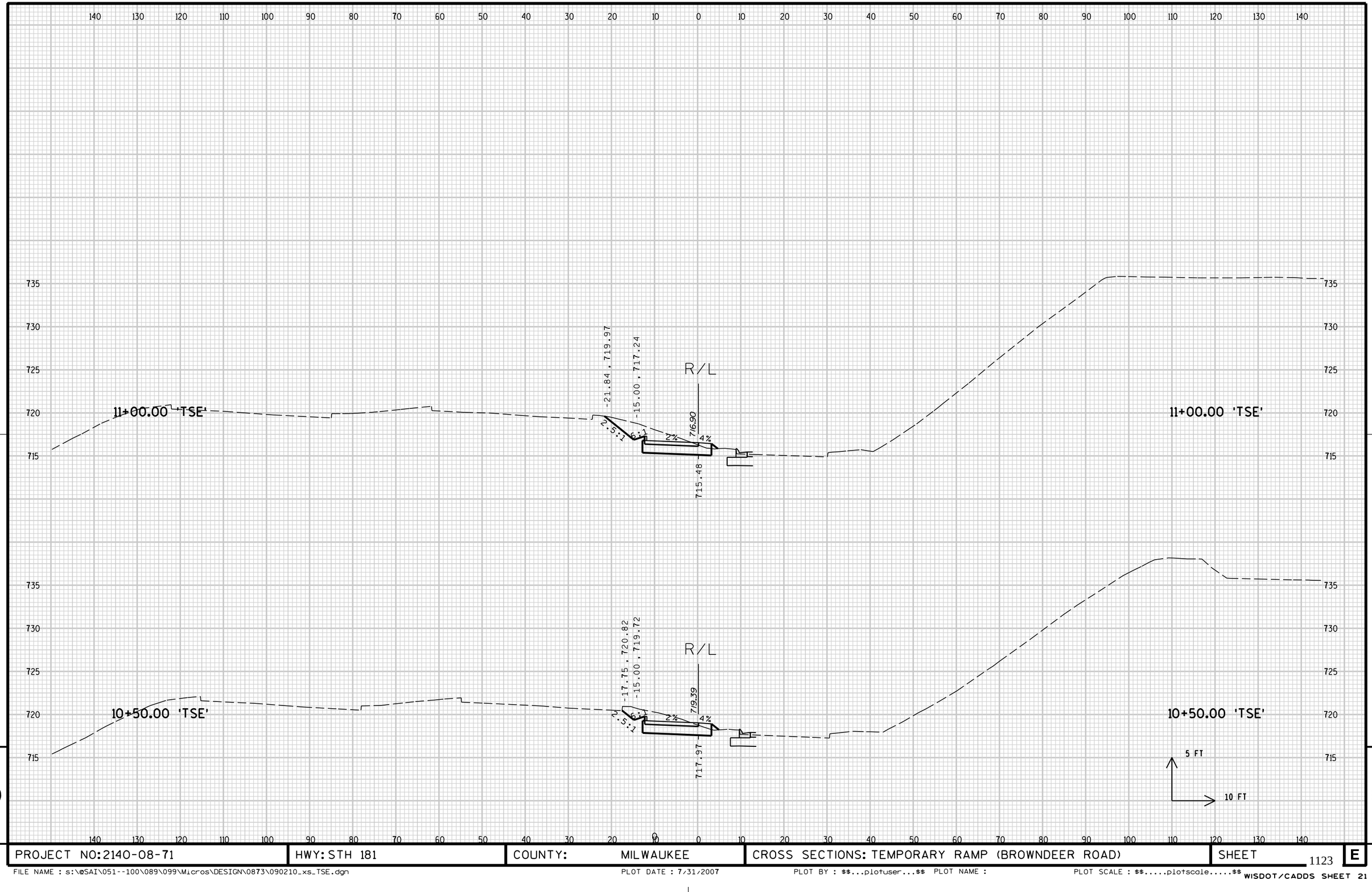
9

9

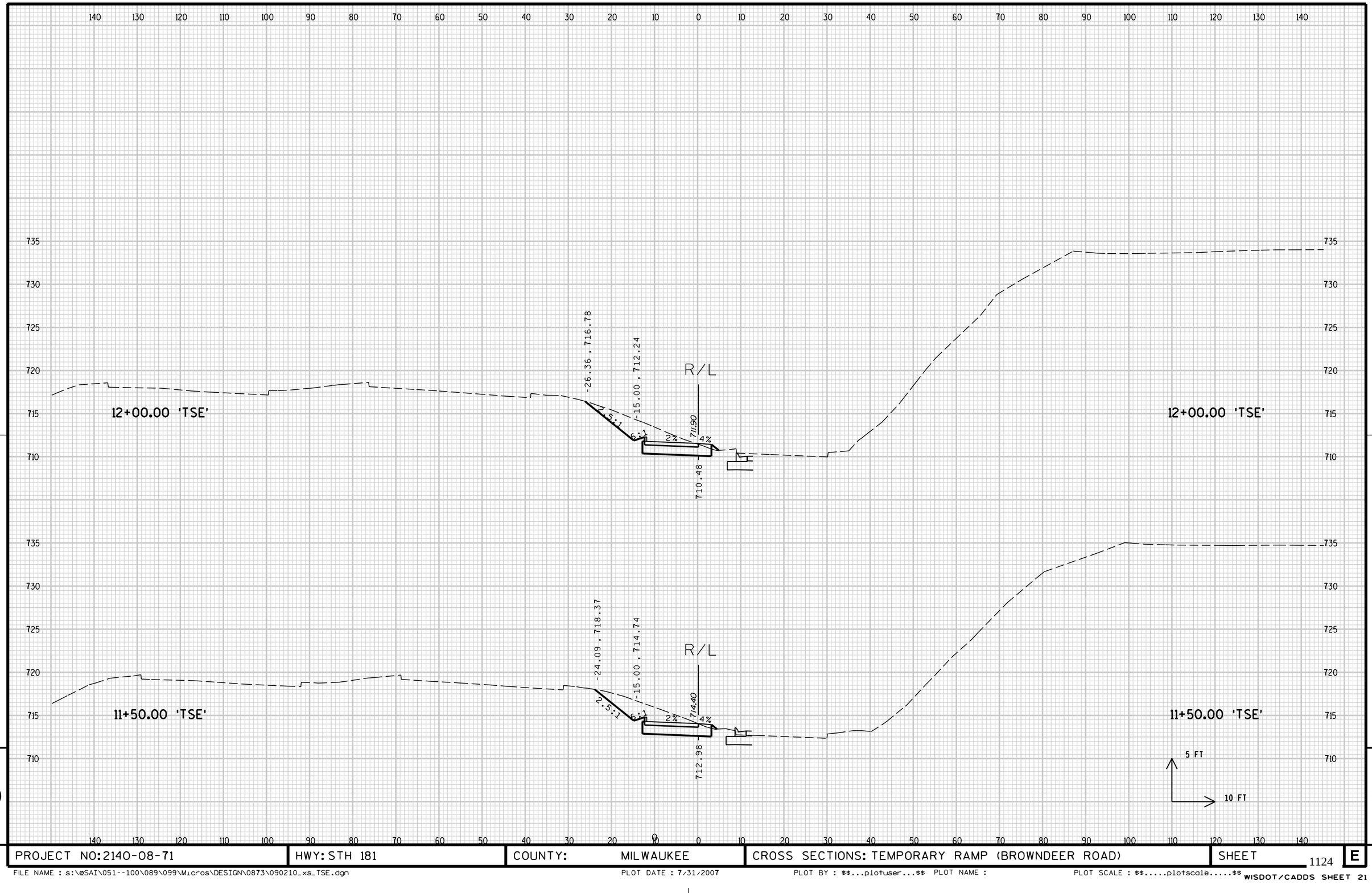
PROJECT NO: 2140-08-71	HWY: STH 181	COUNTY: MILWAUKEE	CROSS SECTIONS: TEMPORARY RAMP (BROWNDEER ROAD)	SHEET 1122	E

FILE NAME : s:\@SAI\051--100\089\099\Micros\DESIGN\0873\090210_xs_TSE.dgn PLOT DATE : 7/31/2007 PLOT BY : $$...plotuser...$$ PLOT NAME : PLOT SCALE : $$.....plotscale.....$$

WISDOT/CADDS SHEET 21



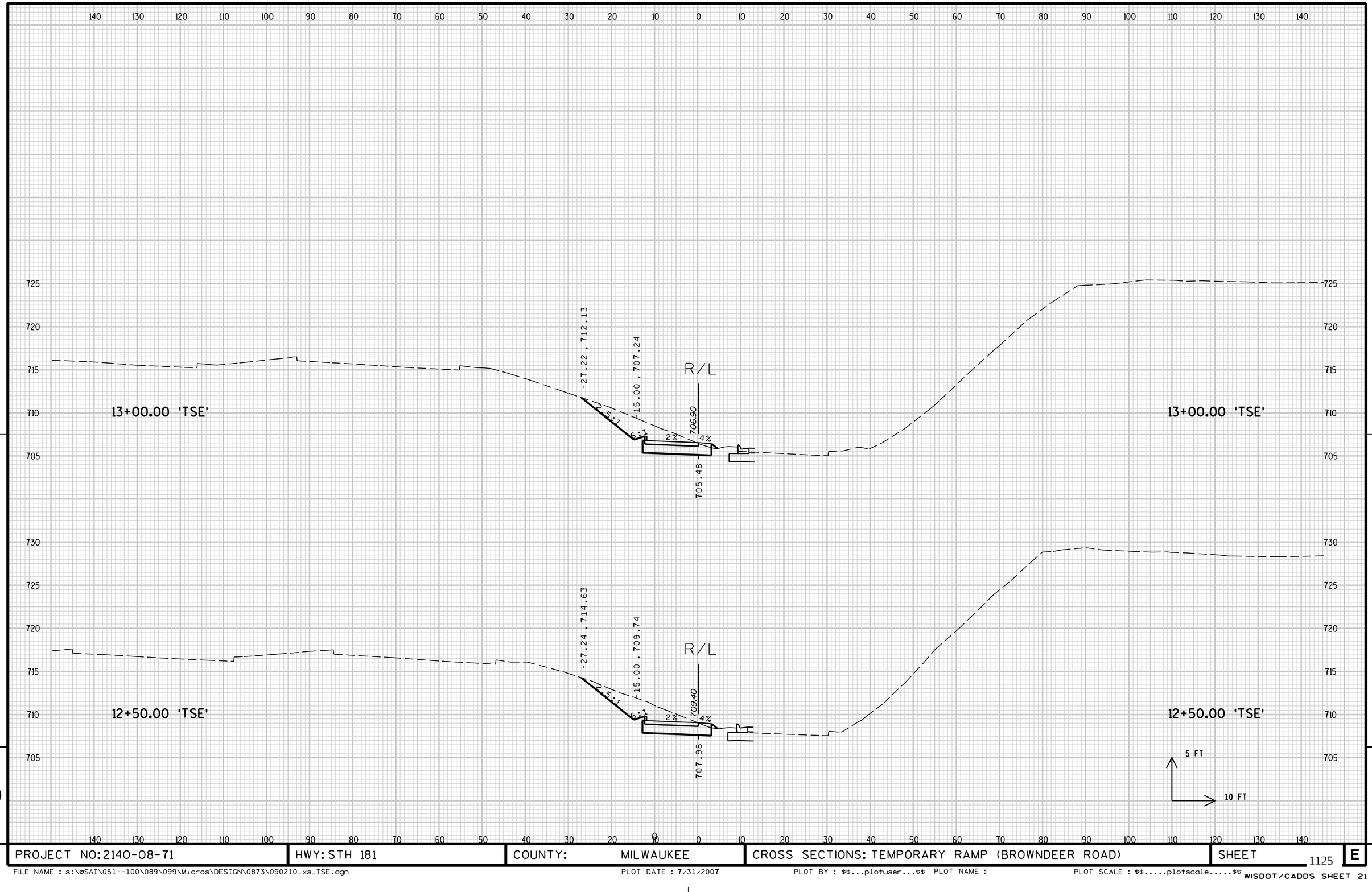
PROJECT NO: 2140-08-71	HWY: STH 181	COUNTY: MILWAUKEE	CROSS SECTIONS: TEMPORARY RAMP (BROWNDEER ROAD)	SHEET 1123	E



9

PROJECT NO: 2140-08-71	HWY: STH 181	COUNTY: MILWAUKEE	CROSS SECTIONS: TEMPORARY RAMP (BROWNDEER ROAD)	SHEET 1124	E

FILE NAME : s:\@SAI\051--100\089\099\Micros\DESIGN\0873\090210_xs_TSE.dgn PLOT DATE : 7/31/2007 PLOT BY : $$...plotuser...$$ PLOT NAME : PLOT SCALE : $$.....plotscale.....$$ WISDOT/CADDS SHEET 21



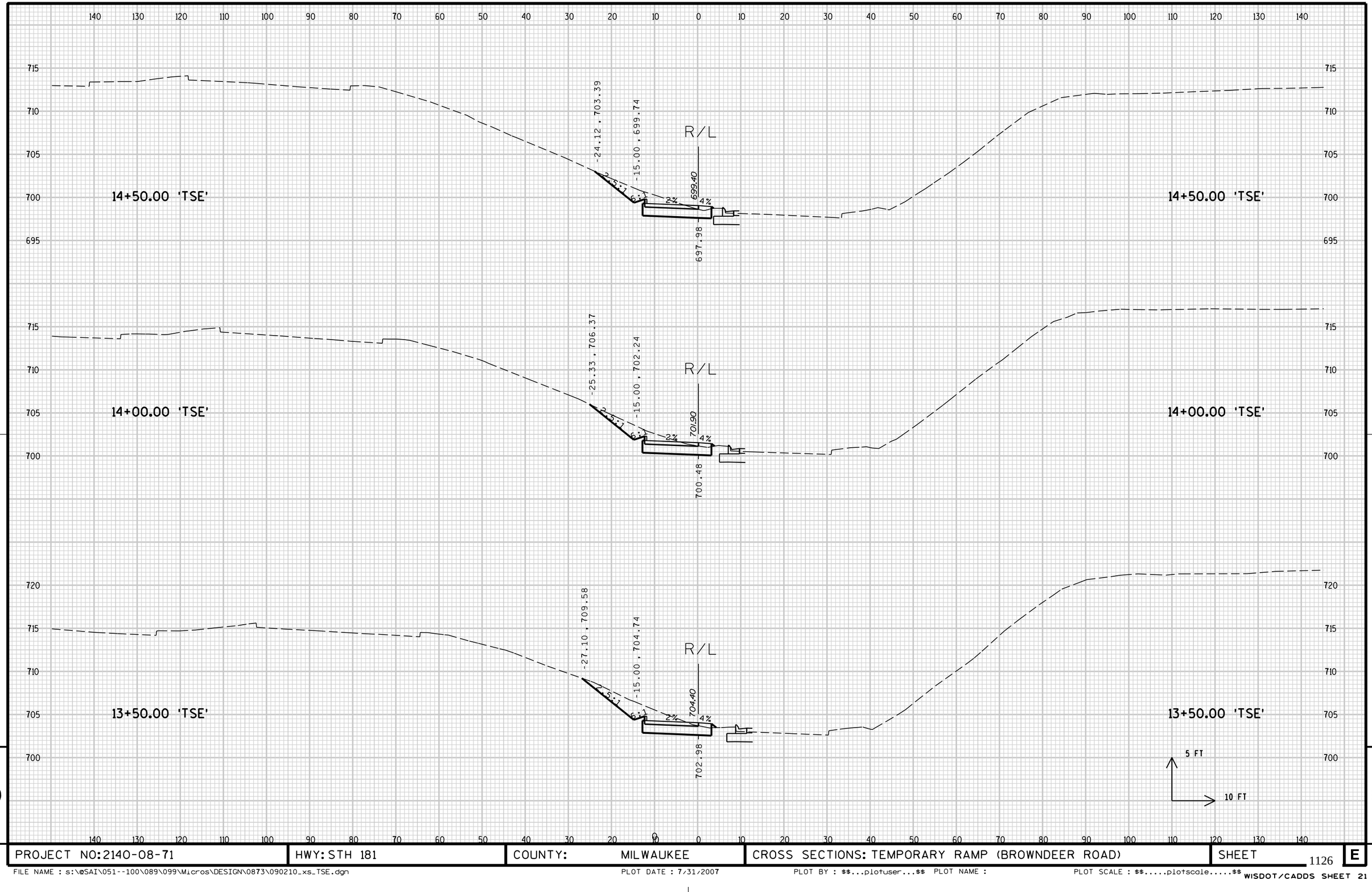
9

9

PROJECT NO: 2140-08-71	HWY: STH 181	COUNTY: MILWAUKEE	CROSS SECTIONS: TEMPORARY RAMP (BROWNDEER ROAD)	SHEET 1125	E

FILE NAME : s:\@SAI\051--100\089\099\Micros\DESIGN\0873\090210_xs_TSE.dgn PLOT DATE : 7/31/2007 PLOT BY : $$...plotuser...$$ PLOT NAME : PLOT SCALE : $$.....plotscale.....$$

WISDOT/CADDS SHEET 21

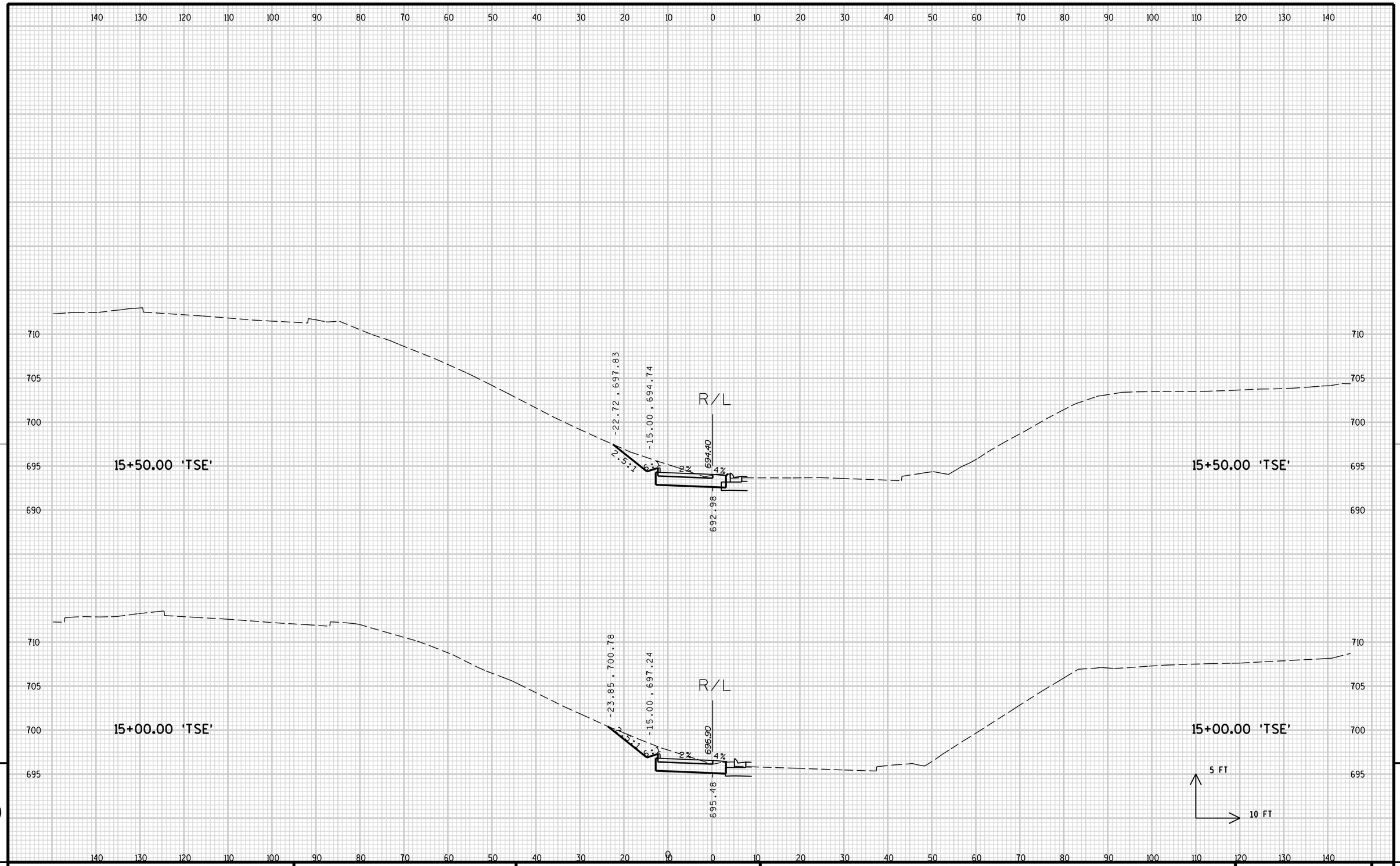


9

9

PROJECT NO: 2140-08-71	HWY: STH 181	COUNTY: MILWAUKEE	CROSS SECTIONS: TEMPORARY RAMP (BROWNDEER ROAD)	SHEET 1126	E

FILE NAME : s:\@SAI\051--100\089\099\Micros\DESIGN\0873\090210_xs_TSE.dgn PLOT DATE : 7/31/2007 PLOT BY : $$...plotuser...$$ PLOT NAME : PLOT SCALE : $$.....plotscale.....$$ WISDOT/CADDS SHEET 21

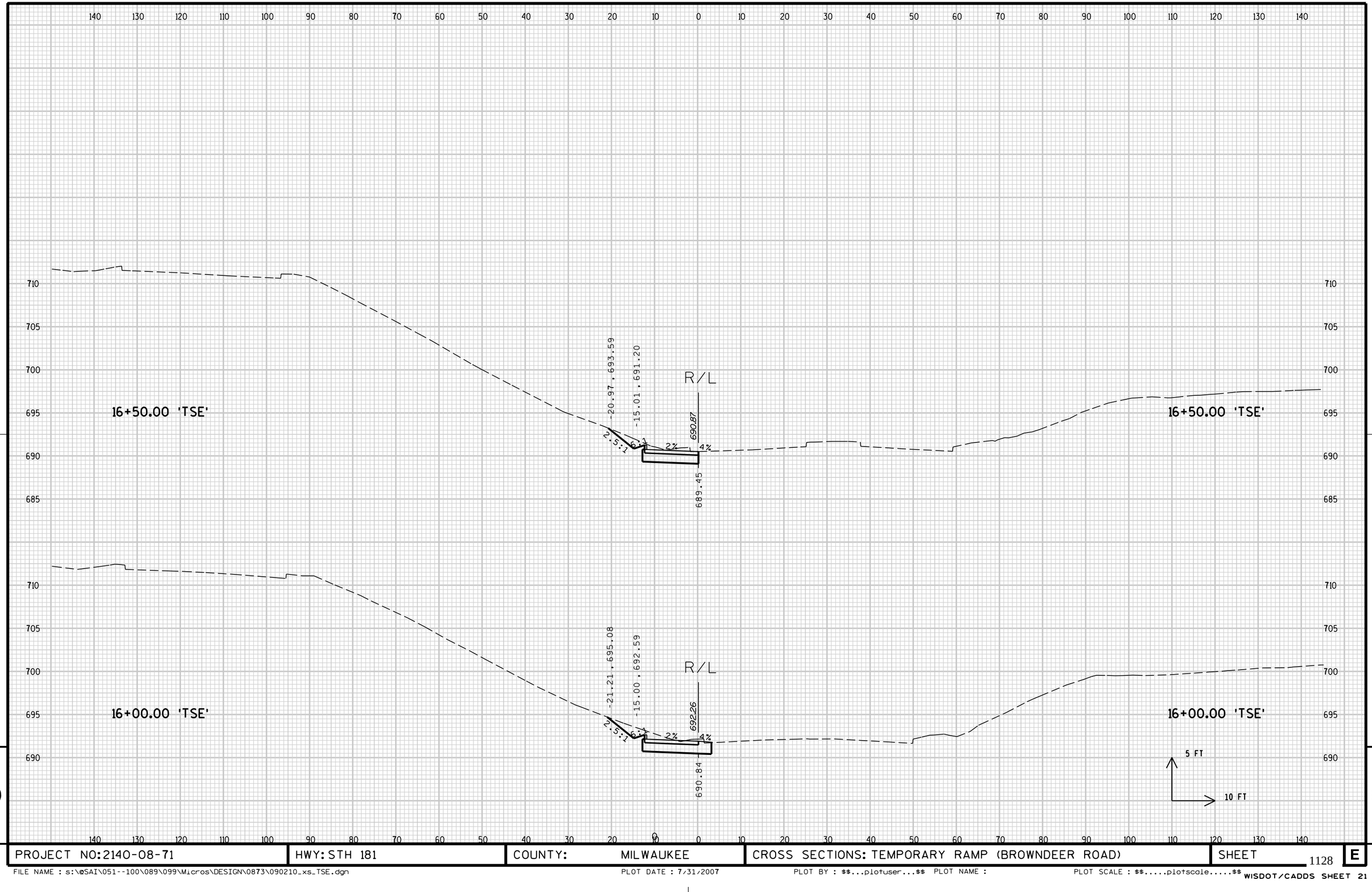


9

9

PROJECT NO:2140-08-71	HWY: STH 181	COUNTY: MILWAUKEE	CROSS SECTIONS: TEMPORARY RAMP (BROWNDEER ROAD)	SHEET 1127	E

FILE NAME : s:\@SAI\051--100\089\099\Micros\DESIGN\0873\090210_xs_TSE.dgn PLOT DATE : 7/31/2007 PLOT BY : $$...plotuser...$$ PLOT NAME : PLOT SCALE : $$.....plotscale.....$$ WISDOT/CADDS SHEET 21

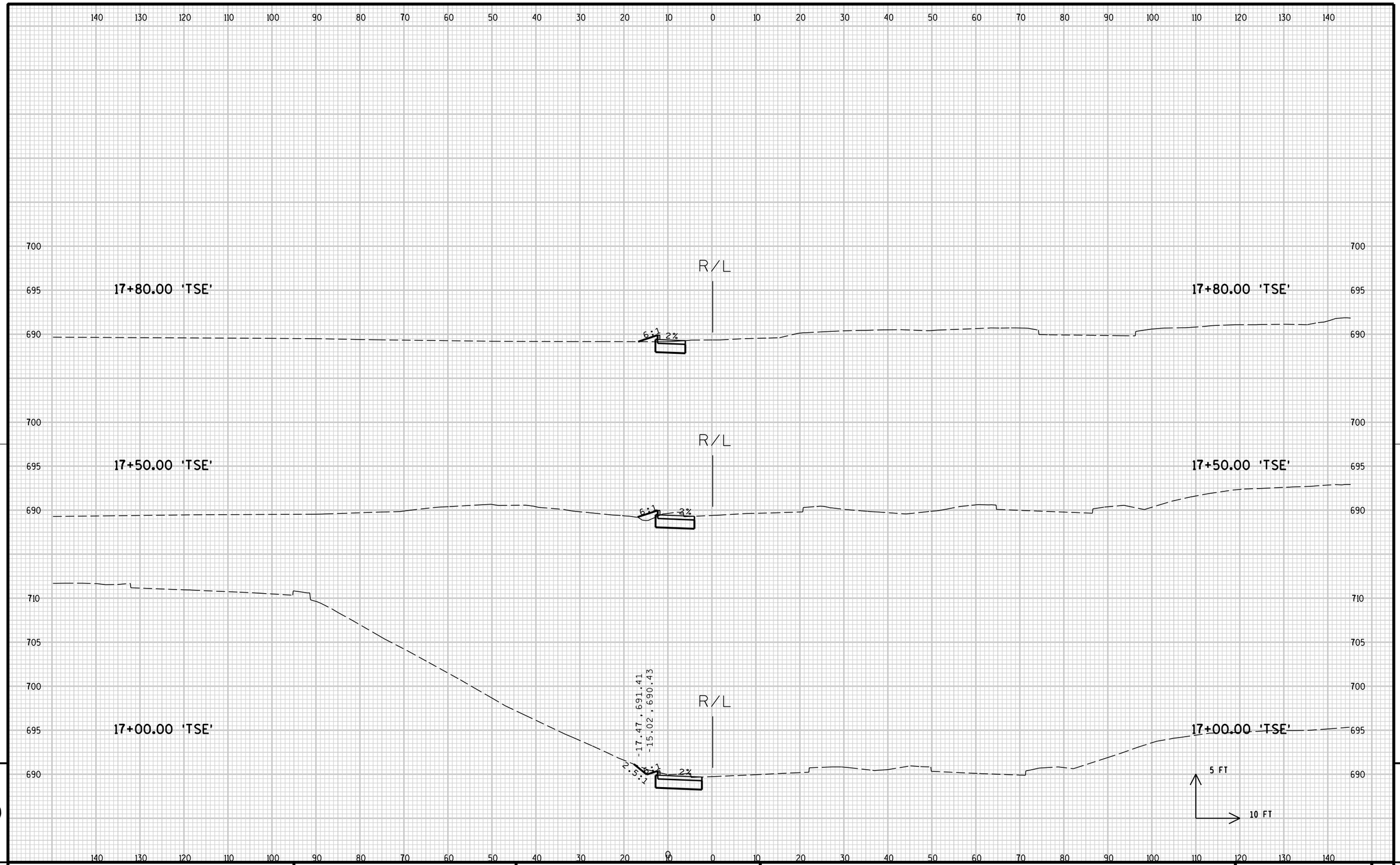


9

9

PROJECT NO: 2140-08-71	HWY: STH 181	COUNTY: MILWAUKEE	CROSS SECTIONS: TEMPORARY RAMP (BROWNDEER ROAD)	SHEET 1128	E

FILE NAME : s:\@SAI\051--100\089\099\Micros\DESIGN\0873\090210_xs_TSE.dgn PLOT DATE : 7/31/2007 PLOT BY : $$...plotuser...$$ PLOT NAME : PLOT SCALE : $$.....plotscale.....$$ WISDOT/CADDS SHEET 21



9

9

PROJECT NO: 2140-08-71	HWY: STH 181	COUNTY: MILWAUKEE	CROSS SECTIONS: TEMPORARY RAMP (BROWNDEER ROAD)	SHEET 1129 E

FILE NAME : s:\@SAI\051--100\089\099\Micros\DESIGN\0873\090210_xs_TSE.dgn PLOT DATE : 7/31/2007 PLOT BY : $$...plotuser...$$ PLOT NAME : PLOT SCALE : $$.....plotscale.....$$

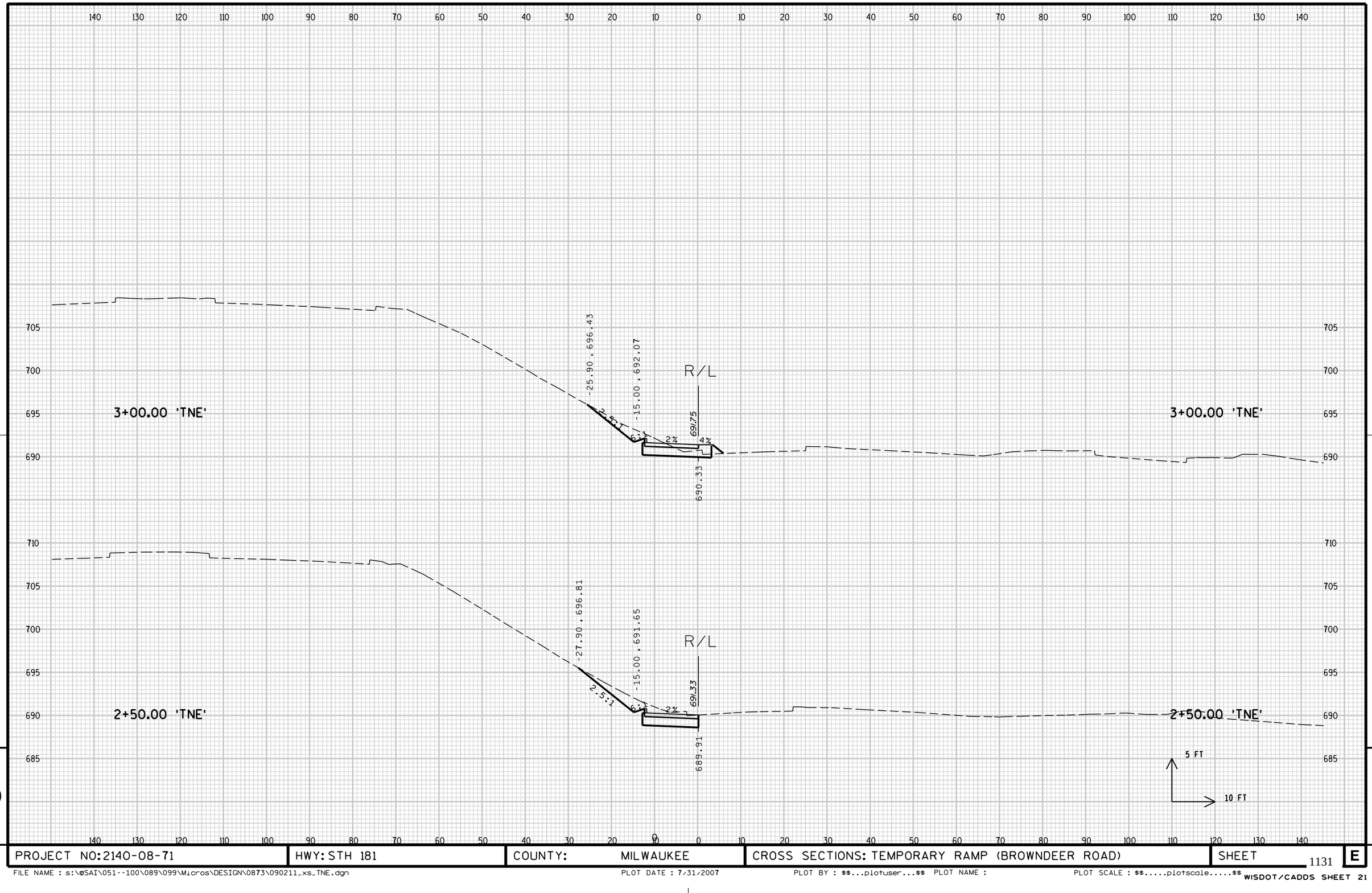


9

9

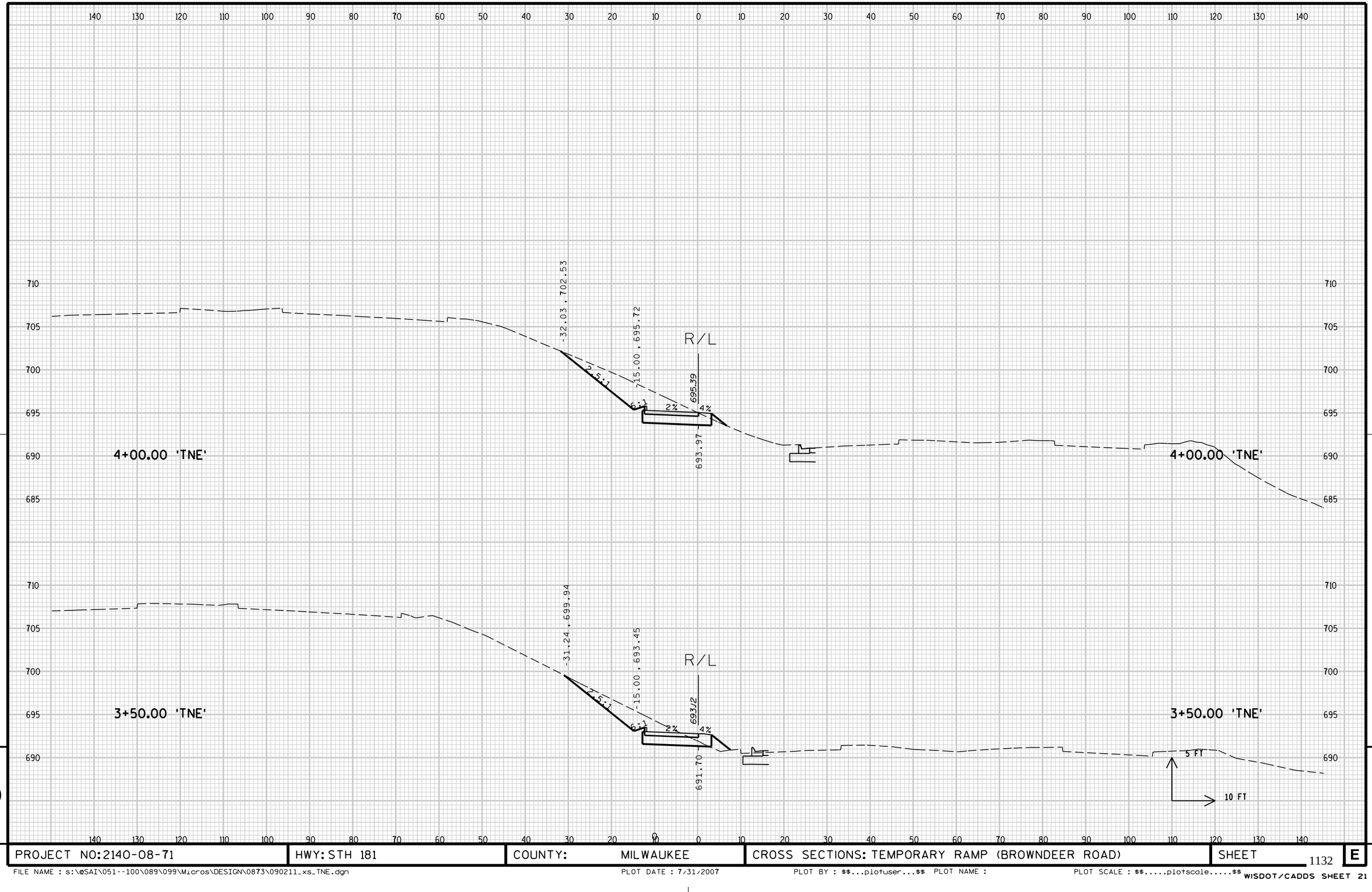
PROJECT NO: 2140-08-71	HWY: STH 181	COUNTY: MILWAUKEE	CROSS SECTIONS: TEMPORARY RAMP (BROWNDEER ROAD)	SHEET 1130	E

FILE NAME : s:\@SAI\051--100\089\099\Micros\DESIGN\0873\090211_xs_TNE.dgn PLOT DATE : 7/31/2007 PLOT BY : $$...plotuser...$$ PLOT NAME : PLOT SCALE : $$.....plotscale.....$$ WISDOT/CADDS SHEET 21



PROJECT NO: 2140-08-71	HWY: STH 181	COUNTY: MILWAUKEE	CROSS SECTIONS: TEMPORARY RAMP (BROWNDEER ROAD)	SHEET 1131 E

FILE NAME : s:\@SAI\051--100\089\099\Micros\DESIGN\0873\090211_xs_TNE.dgn PLOT DATE : 7/31/2007 PLOT BY : $$...plotuser...$$ PLOT NAME : PLOT SCALE : $$.....plotscale.....$$ WISDOT/CADDS SHEET 21

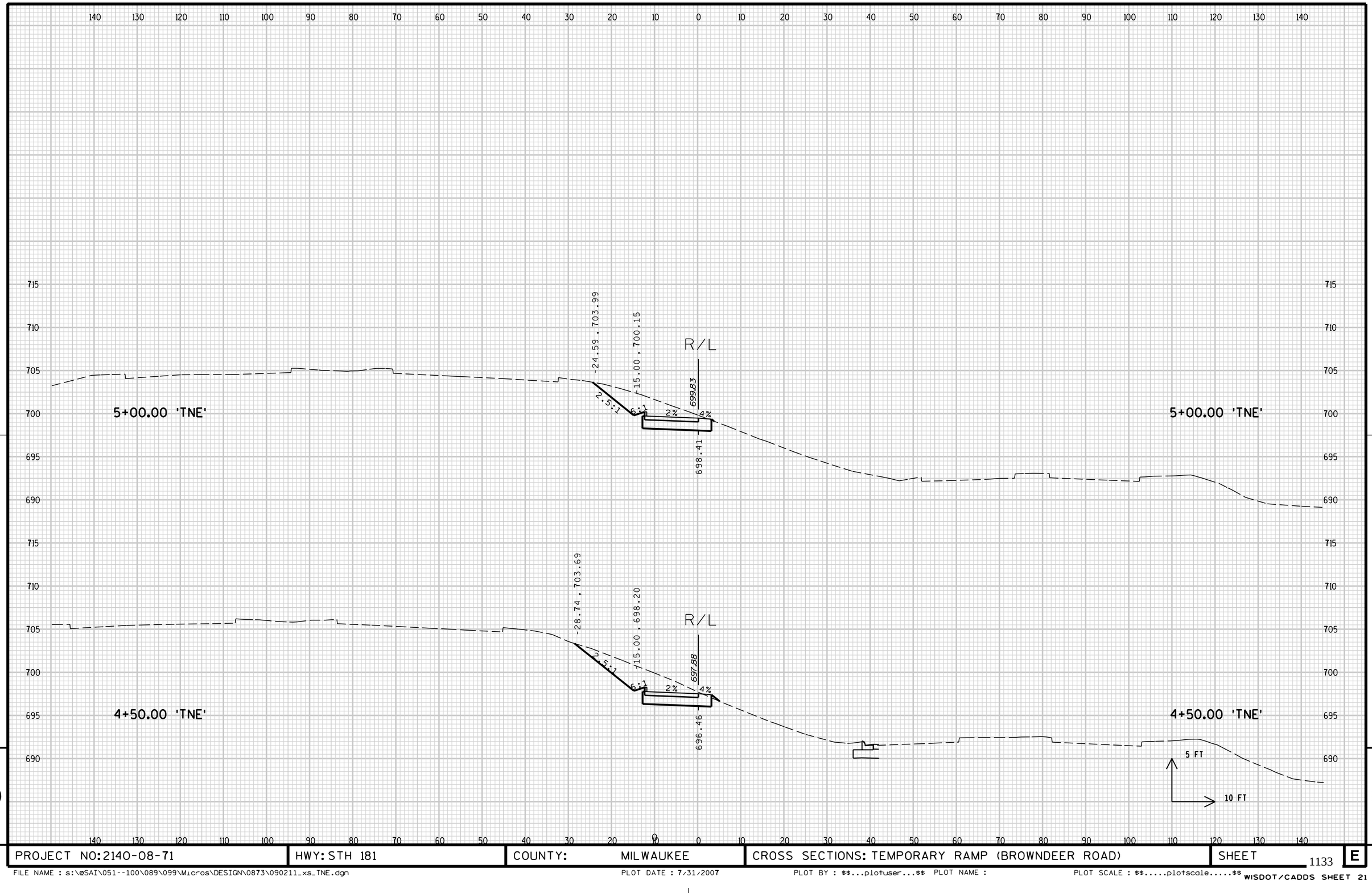


9

9

PROJECT NO: 2140-08-71	HWY: STH 181	COUNTY: MILWAUKEE	CROSS SECTIONS: TEMPORARY RAMP (BROWNDEER ROAD)	SHEET 1132	E

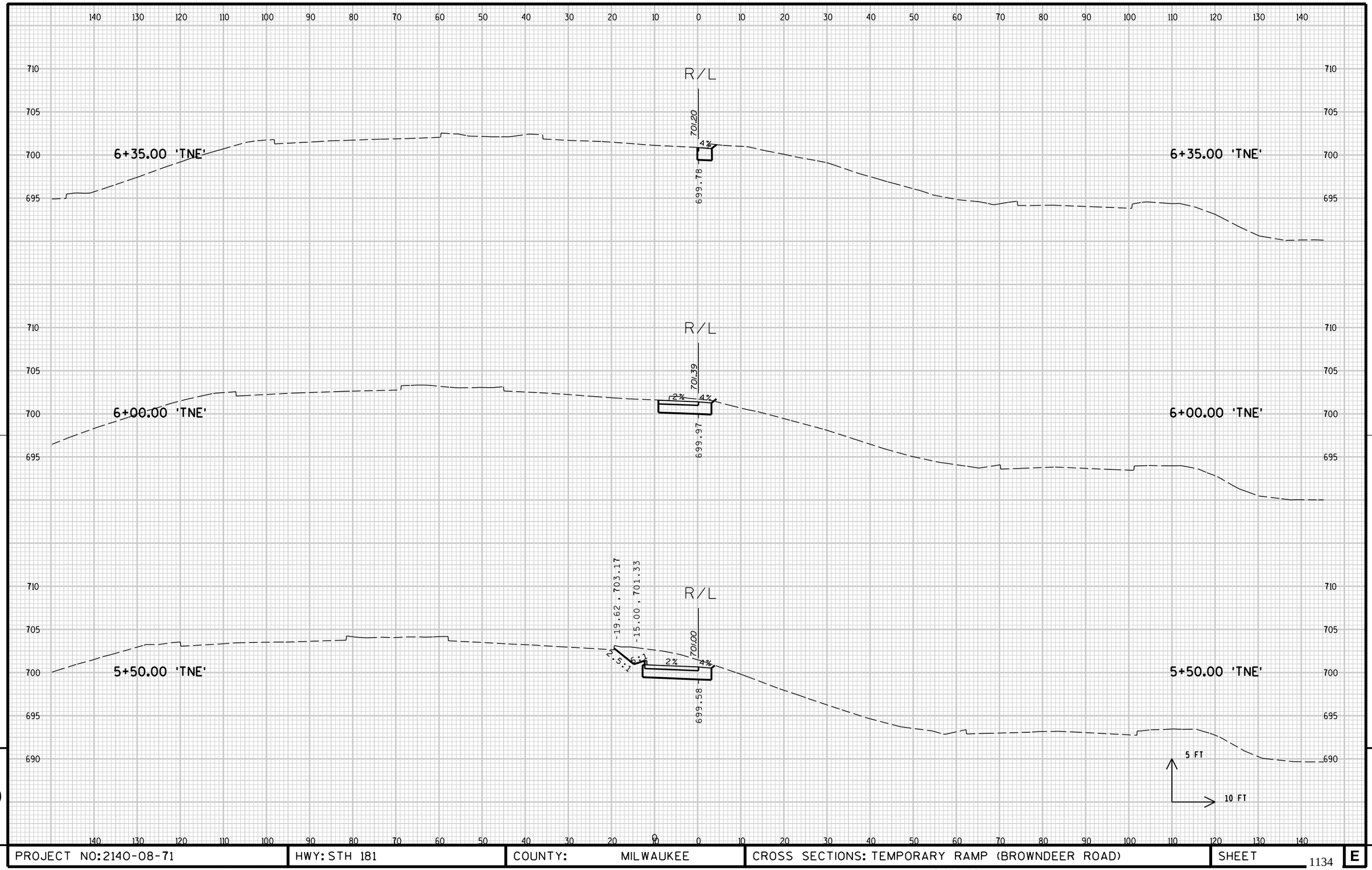
FILE NAME : s:\@SAI\051--100\089\099\Micros\DESIGN\0873\090211_xs_TNE.dgn PLOT DATE : 7/31/2007 PLOT BY : $$...plotuser...$$ PLOT NAME : PLOT SCALE : $$.....plotscale.....$$ WISDOT/CADDS SHEET 21



PROJECT NO: 2140-08-71	HWY: STH 181	COUNTY: MILWAUKEE	CROSS SECTIONS: TEMPORARY RAMP (BROWNDEER ROAD)	SHEET 1133	E

FILE NAME : s:\@SAI\051--100\089\099\Micros\DESIGN\0873\090211_xs_TNE.dgn PLOT DATE : 7/31/2007 PLOT BY : $$...plotuser...$$ PLOT NAME : PLOT SCALE : $$.....plotscale.....$$

WISDOT/CADDS SHEET 21



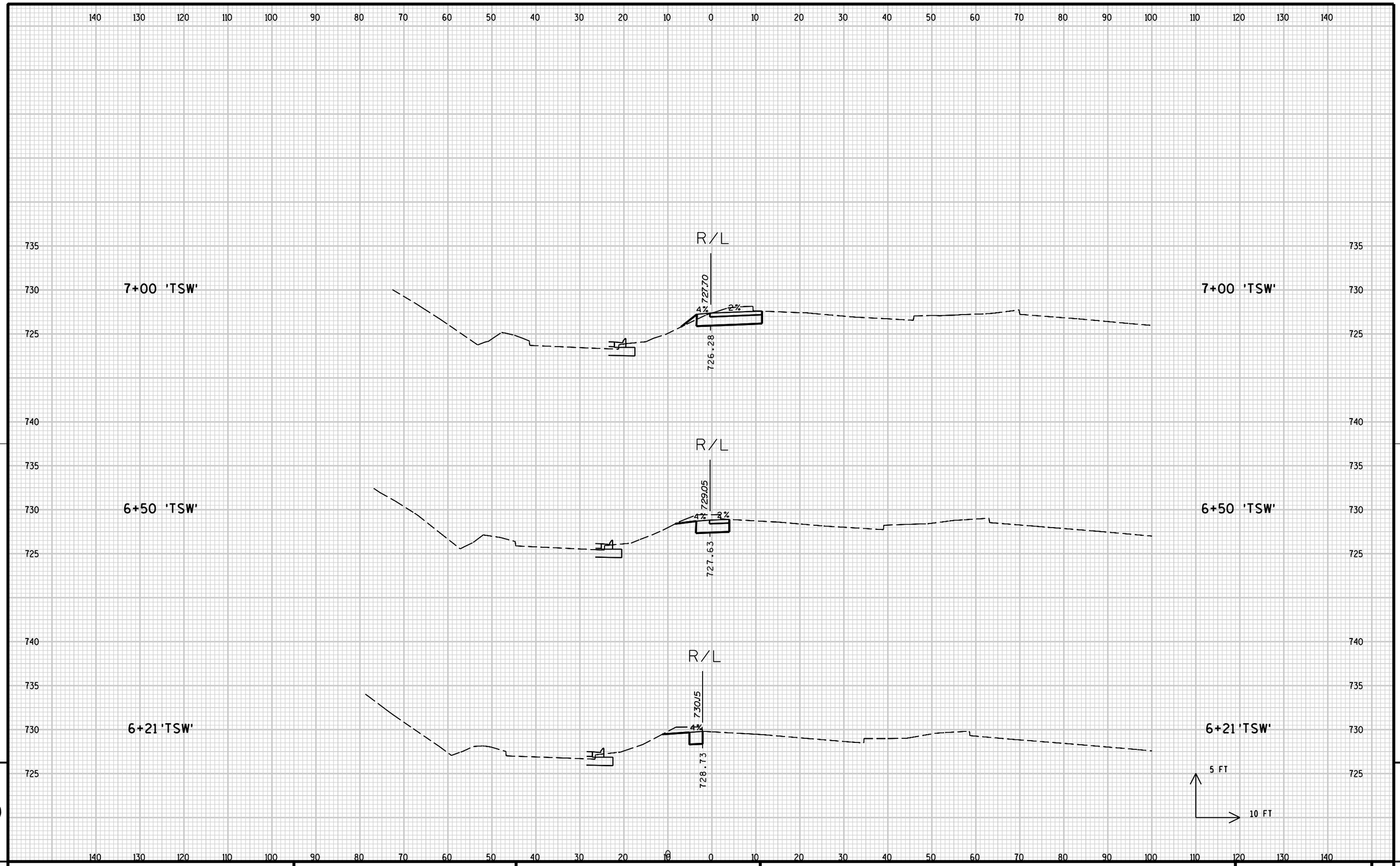
9

9

PROJECT NO: 2140-08-71	HWY: STH 181	COUNTY: MILWAUKEE	CROSS SECTIONS: TEMPORARY RAMP (BROWNDEER ROAD)	SHEET 1134	E

FILE NAME : s:\@SAI\051--100\089\099\Micros\DESIGN\0873\090211_xs_TNE.dgn PLOT DATE : 7/31/2007 PLOT BY : $$...plotuser...$$ PLOT NAME : PLOT SCALE : $$.....plotscale.....$$

WISDOT/CADDS SHEET 21



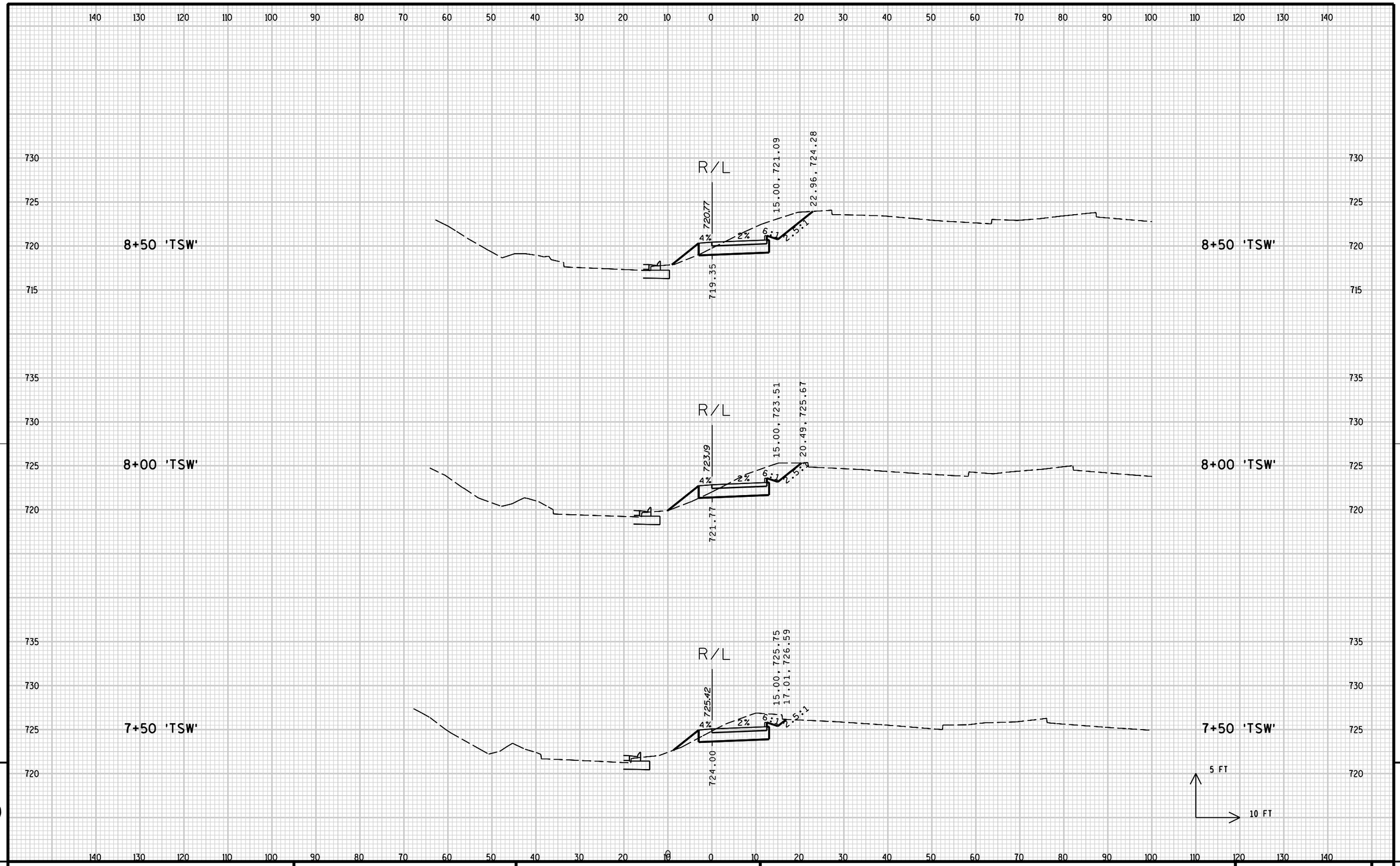
9

9

PROJECT NO: 2140-08-71	HWY: STH 181	COUNTY: MILWAUKEE	CROSS SECTIONS: TEMPORARY RAMP (BROWNDEER ROAD)	SHEET 1135	E

FILE NAME : s:\@SAI\051--100\089\099\Micros\DESIGN\0873\090212_xs_TSW.dgn PLOT DATE : 7/31/2007 PLOT BY : $$...plotuser...$$ PLOT NAME : PLOT SCALE : $$.....plotscale.....$$

WISDOT/CADDS SHEET 21



PROJECT NO: 2140-08-71	HWY: STH 181	COUNTY: MILWAUKEE	CROSS SECTIONS: TEMPORARY RAMP (BROWNDEER ROAD)	SHEET	E

FILE NAME : s:\@SAI\051--100\089\099\Micros\DESIGN\0873\090212_xs_TSW.dgn PLOT DATE : 7/31/2007 PLOT BY : $$...plotuser...$$ PLOT NAME : PLOT SCALE : $$.....plotscale.....$$

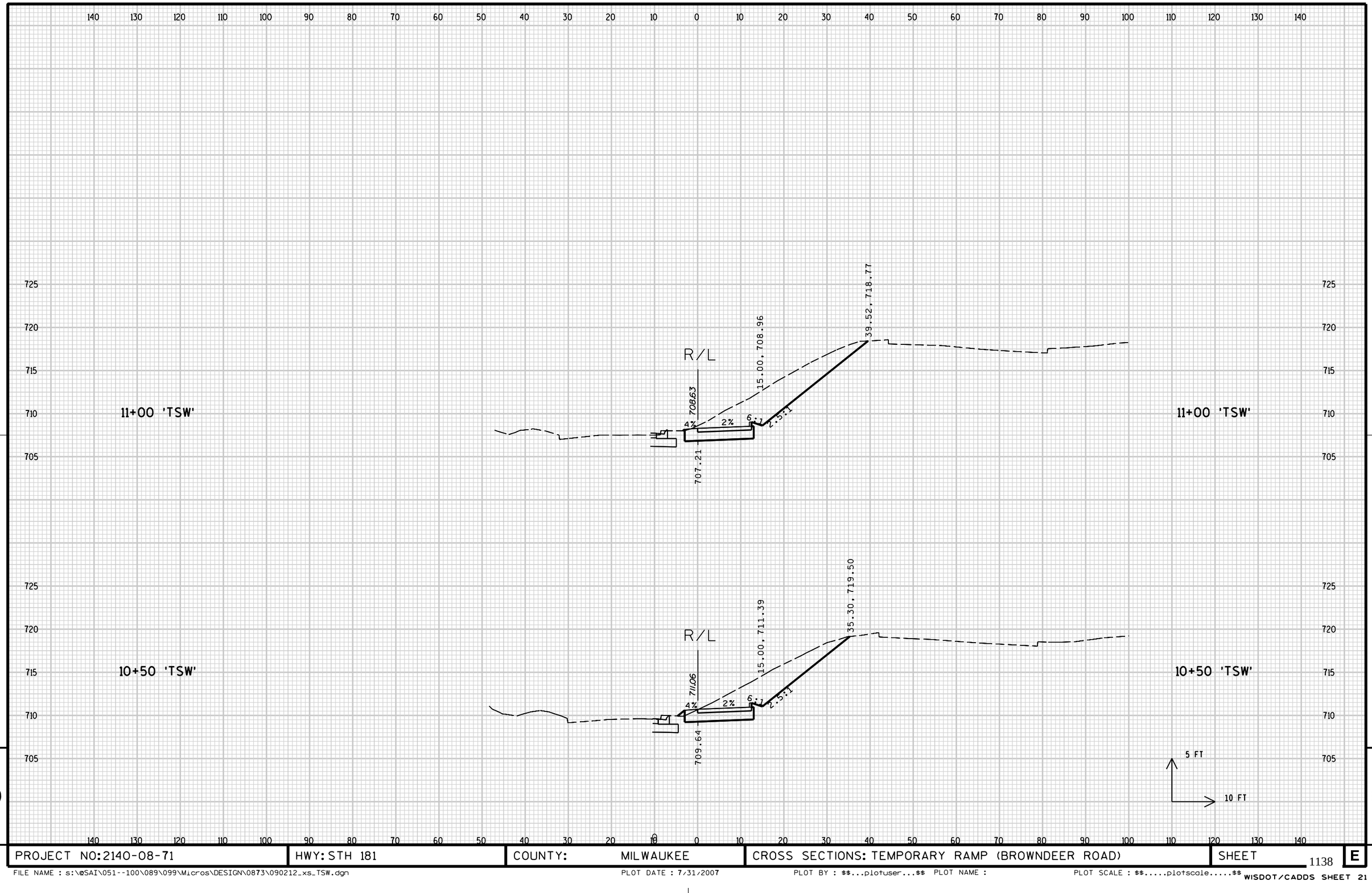


9

9

PROJECT NO: 2140-08-71	HWY: STH 181	COUNTY: MILWAUKEE	CROSS SECTIONS: TEMPORARY RAMP (BROWNDEER ROAD)	SHEET 1137	E

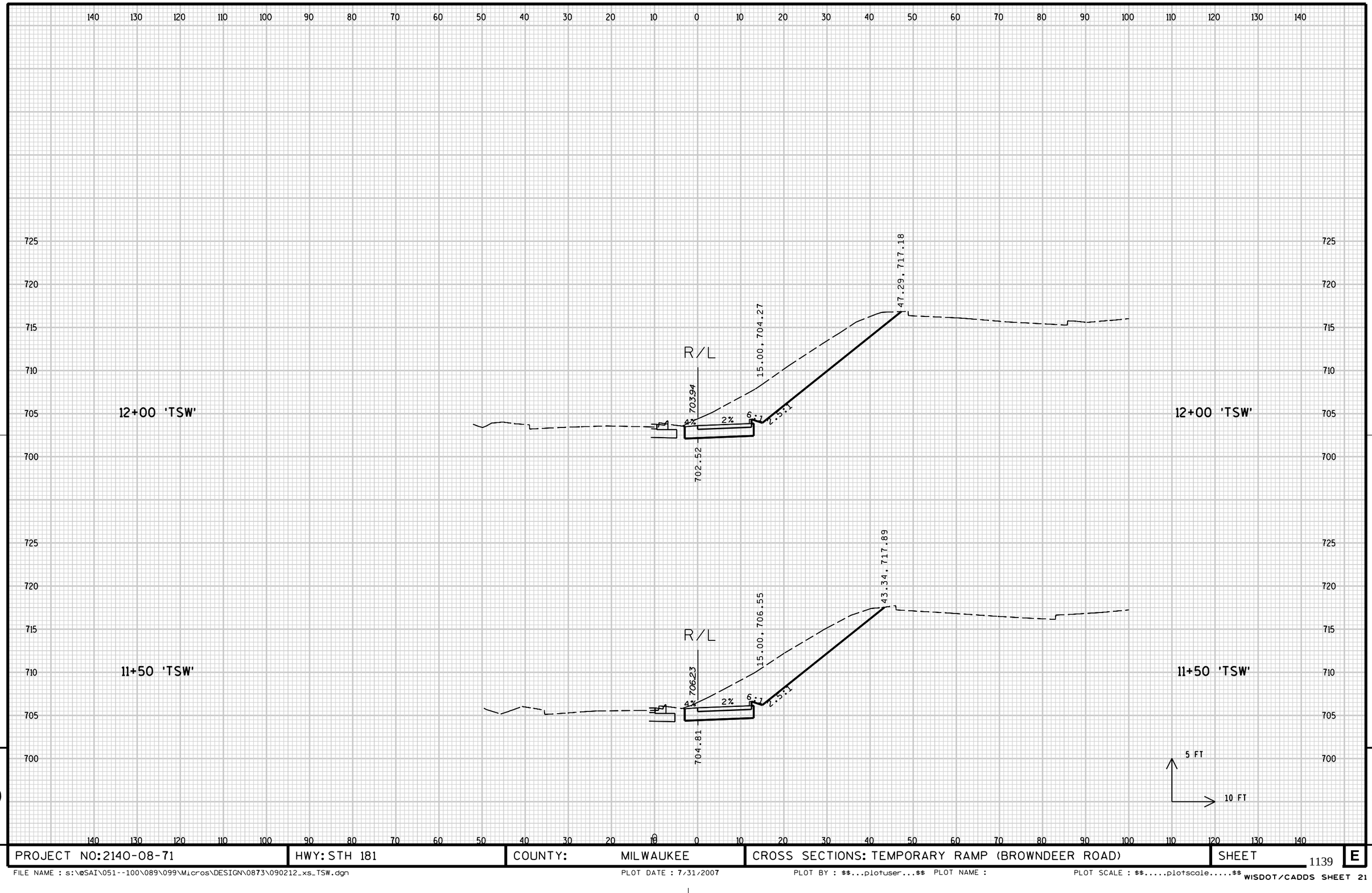
FILE NAME : s:\@SAI\051--100\089\099\Micros\DESIGN\0873\090212_xs_TSW.dgn PLOT DATE : 7/31/2007 PLOT BY : $$...plotuser...$$ PLOT NAME : PLOT SCALE : $$.....plotscale.....$$ WISDOT/CADDS SHEET 21



9

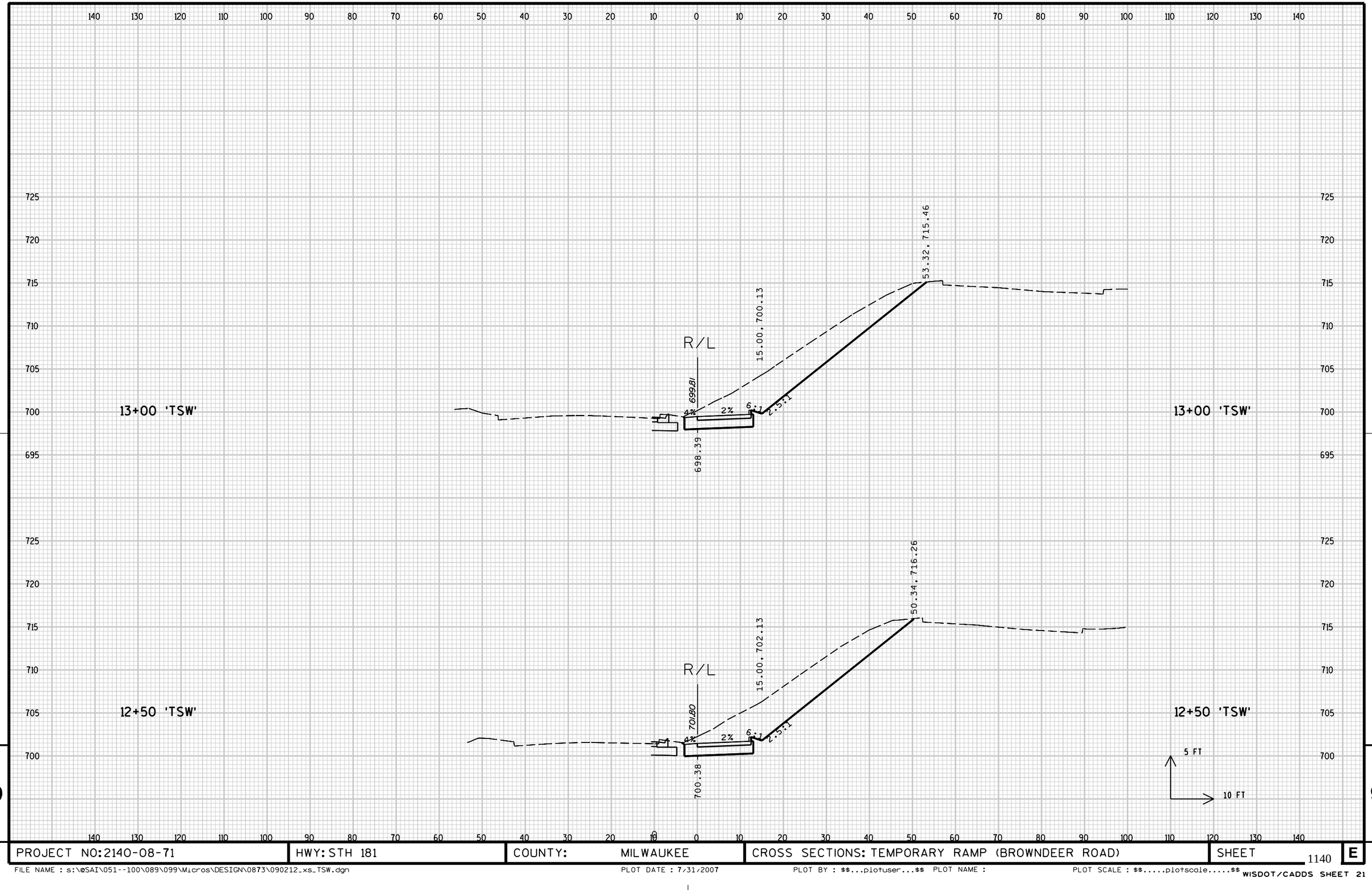
PROJECT NO: 2140-08-71	HWY: STH 181	COUNTY: MILWAUKEE	CROSS SECTIONS: TEMPORARY RAMP (BROWNDEER ROAD)	SHEET 1138	E

FILE NAME : s:\@SAI\051--100\089\099\Micros\DESIGN\0873\090212_xs_TSW.dgn PLOT DATE : 7/31/2007 PLOT BY : $$...plotuser...$$ PLOT NAME : PLOT SCALE : $$.....plotscale.....$$ WISDOT/CADDS SHEET 21



PROJECT NO: 2140-08-71	HWY: STH 181	COUNTY: MILWAUKEE	CROSS SECTIONS: TEMPORARY RAMP (BROWNDEER ROAD)	SHEET	E

FILE NAME : s:\@SAI\051--100\089\099\Micros\DESIGN\0873\090212_xs_TSW.dgn PLOT DATE : 7/31/2007 PLOT BY : $$...plotuser...$$ PLOT NAME : PLOT SCALE : $$.....plotscale.....$$ WISDOT/CADDS SHEET 21

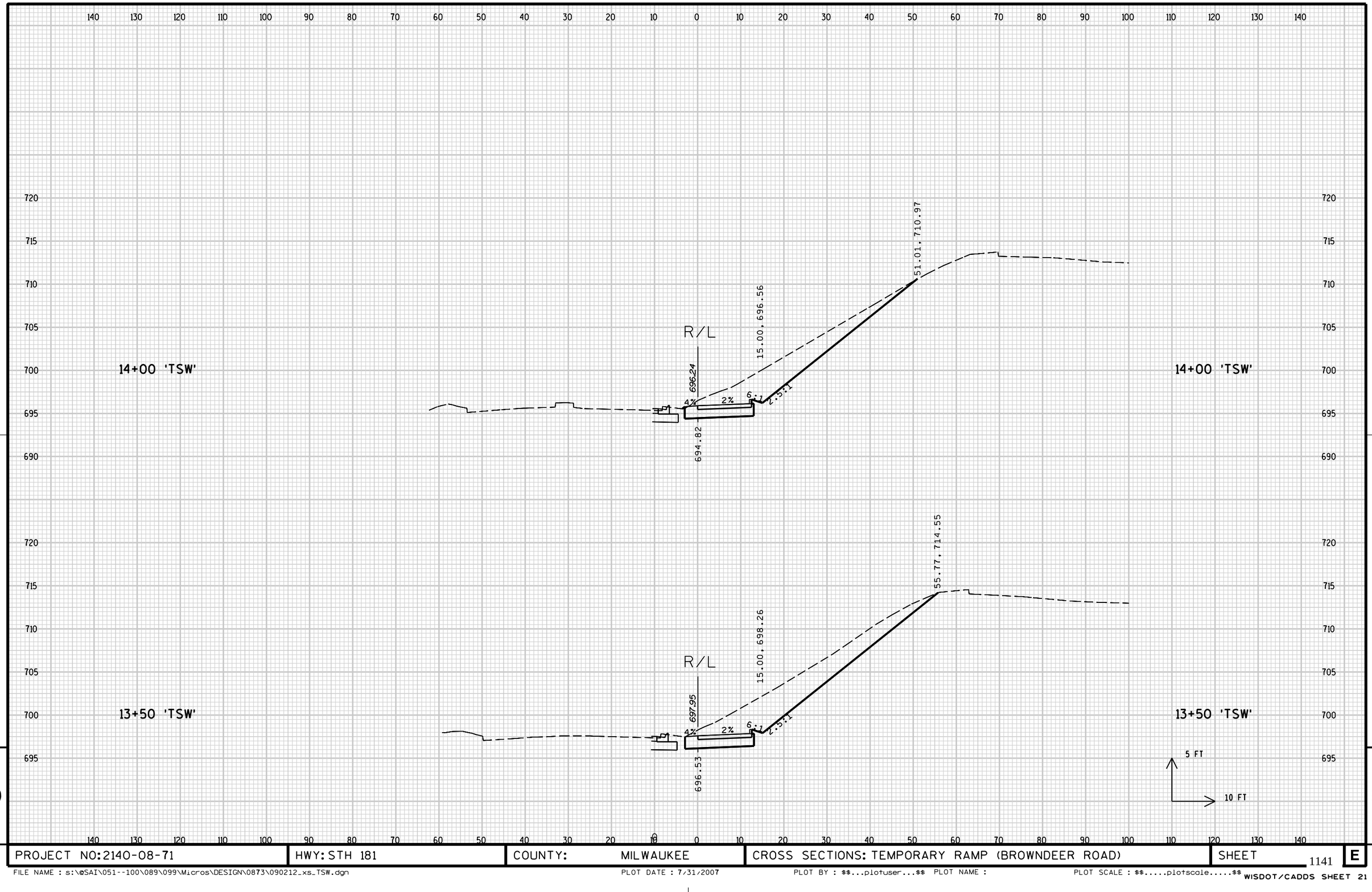


9

PROJECT NO: 2140-08-71	HWY: STH 181	COUNTY: MILWAUKEE	CROSS SECTIONS: TEMPORARY RAMP (BROWNDEER ROAD)	SHEET 1140	E

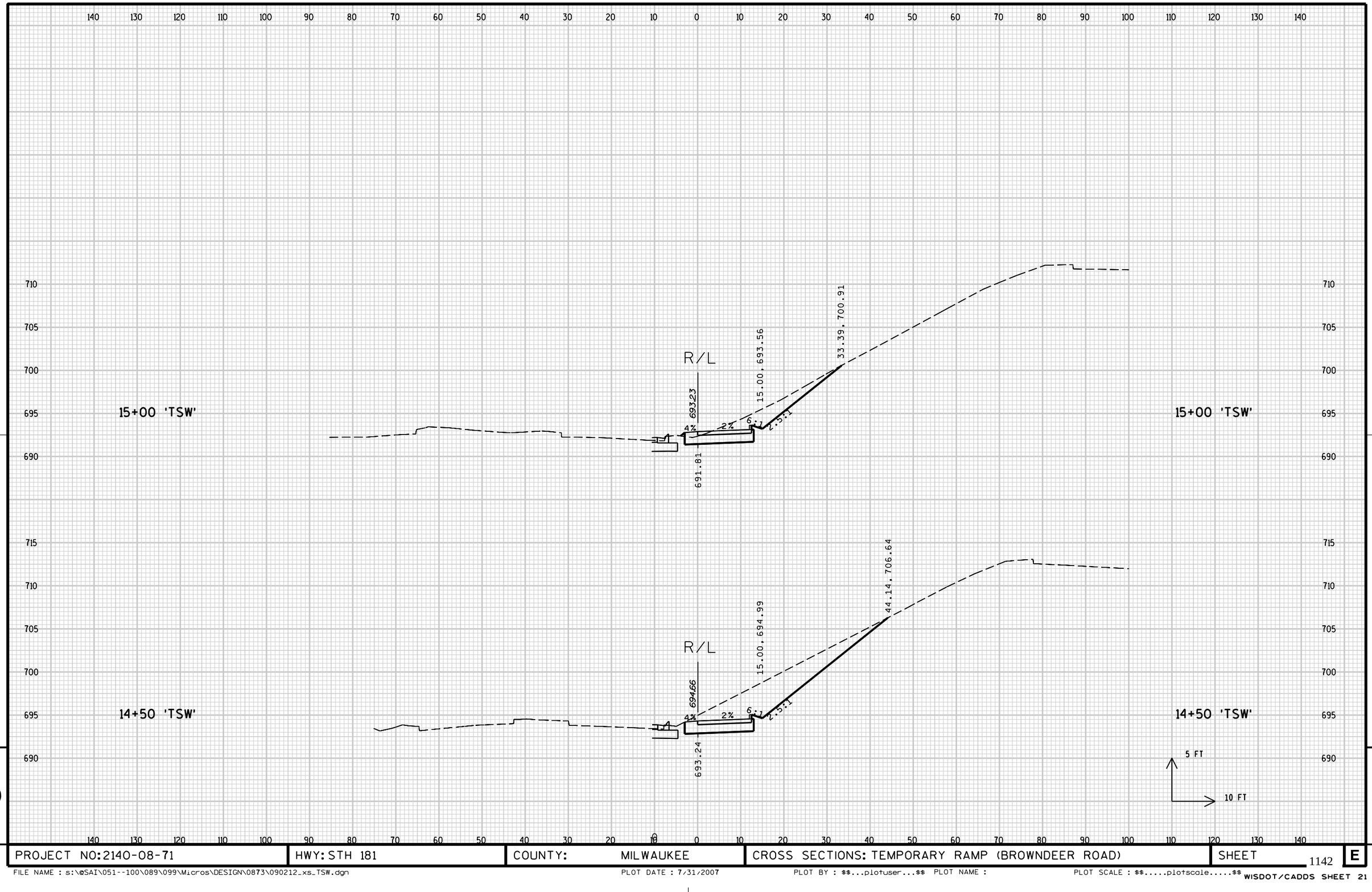
FILE NAME : s:\@SAI\051--100\089\099\Micros\DESIGN\0873\090212_xs_TSW.dgn PLOT DATE : 7/31/2007 PLOT BY : $$...plotuser...$$ PLOT NAME : PLOT SCALE : $$.....plotscale.....$$

WISDOT/CADDS SHEET 21



PROJECT NO: 2140-08-71	HWY: STH 181	COUNTY: MILWAUKEE	CROSS SECTIONS: TEMPORARY RAMP (BROWNDEER ROAD)	SHEET 1141	E

FILE NAME : s:\@SAI\051--100\089\099\Micros\DESIGN\0873\090212_xs_TSW.dgn PLOT DATE : 7/31/2007 PLOT BY : $$...plotuser...$$ PLOT NAME : PLOT SCALE : $$.....plotscale.....$$ WISDOT/CADDS SHEET 21

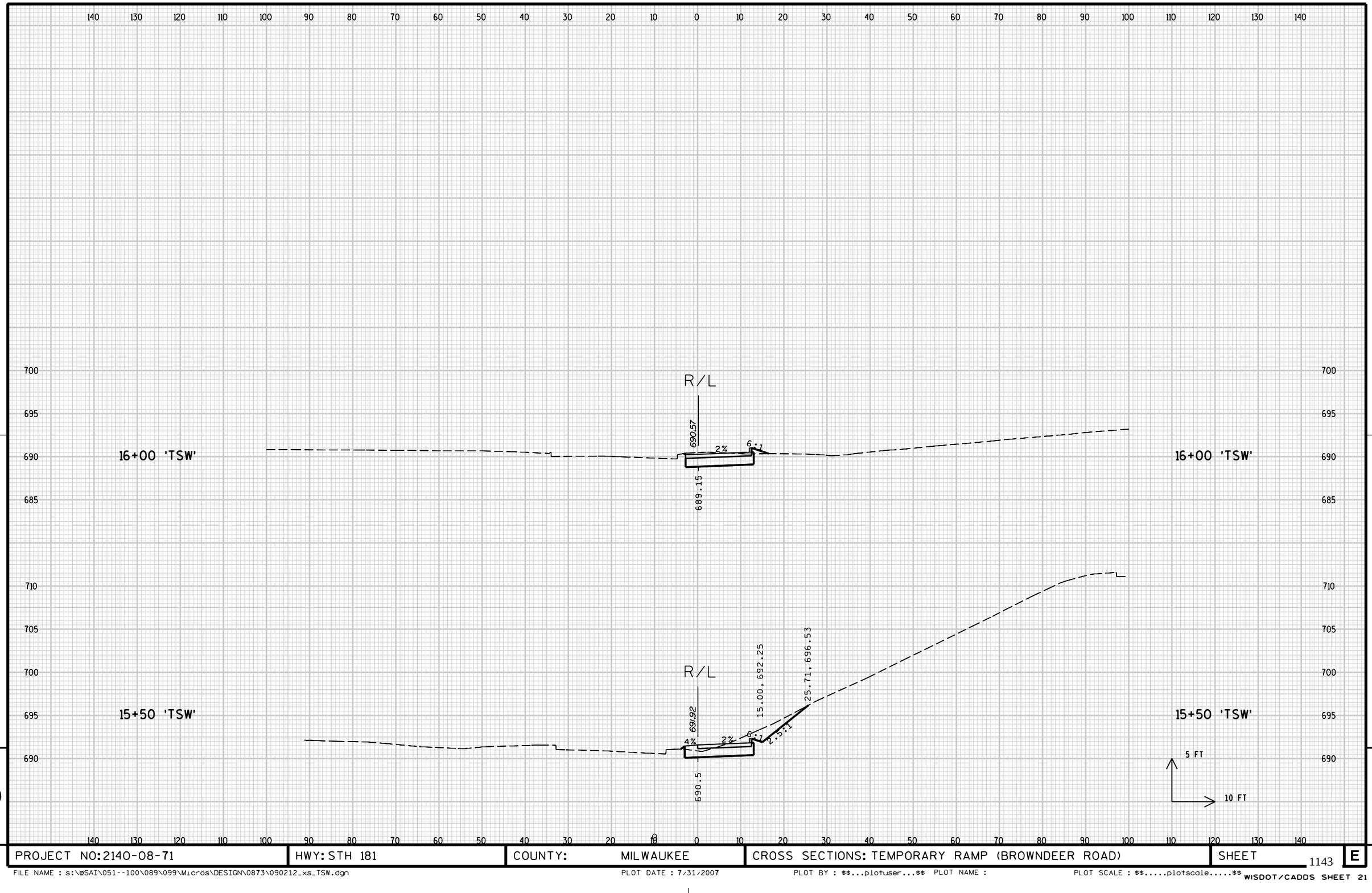


9

PROJECT NO: 2140-08-71	HWY: STH 181	COUNTY: MILWAUKEE	CROSS SECTIONS: TEMPORARY RAMP (BROWNDEER ROAD)	SHEET 1142	E

FILE NAME : s:\@SAI\051--100\089\099\Micros\DESIGN\0873\090212_xs_TSW.dgn PLOT DATE : 7/31/2007 PLOT BY : $$...plotuser...$$ PLOT NAME : PLOT SCALE : $$.....plotscale.....$$

WISDOT/CADDS SHEET 21

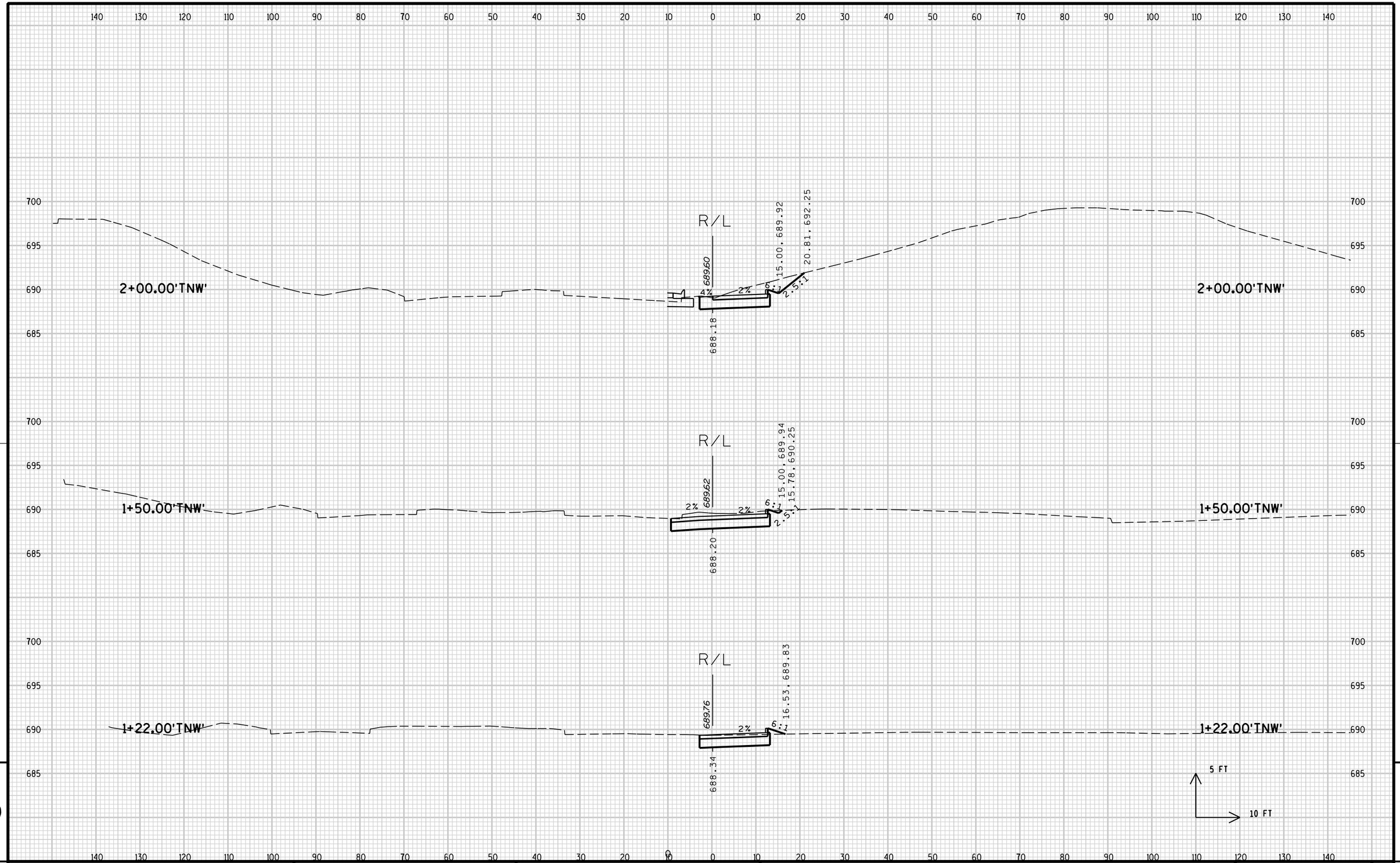


9

9

PROJECT NO: 2140-08-71	HWY: STH 181	COUNTY: MILWAUKEE	CROSS SECTIONS: TEMPORARY RAMP (BROWNDEER ROAD)	SHEET 1143	E

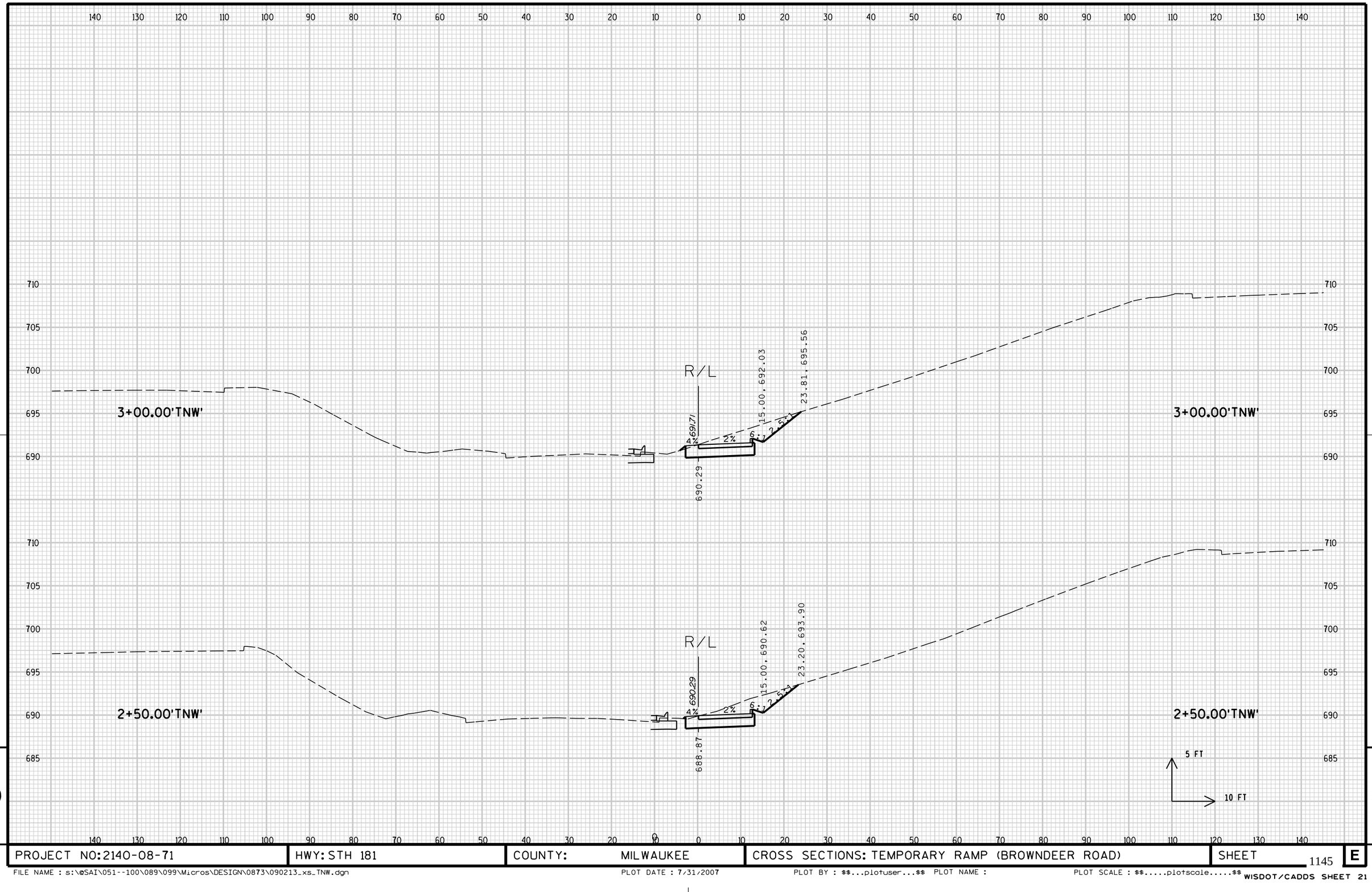
FILE NAME : s:\@SAI\051--100\089\099\Micros\DESIGN\0873\090212_xs_TSW.dgn PLOT DATE : 7/31/2007 PLOT BY : $$...plotuser...$$ PLOT NAME : PLOT SCALE : $$.....plotscale.....$$ WISDOT/CADDS SHEET 21



9

9

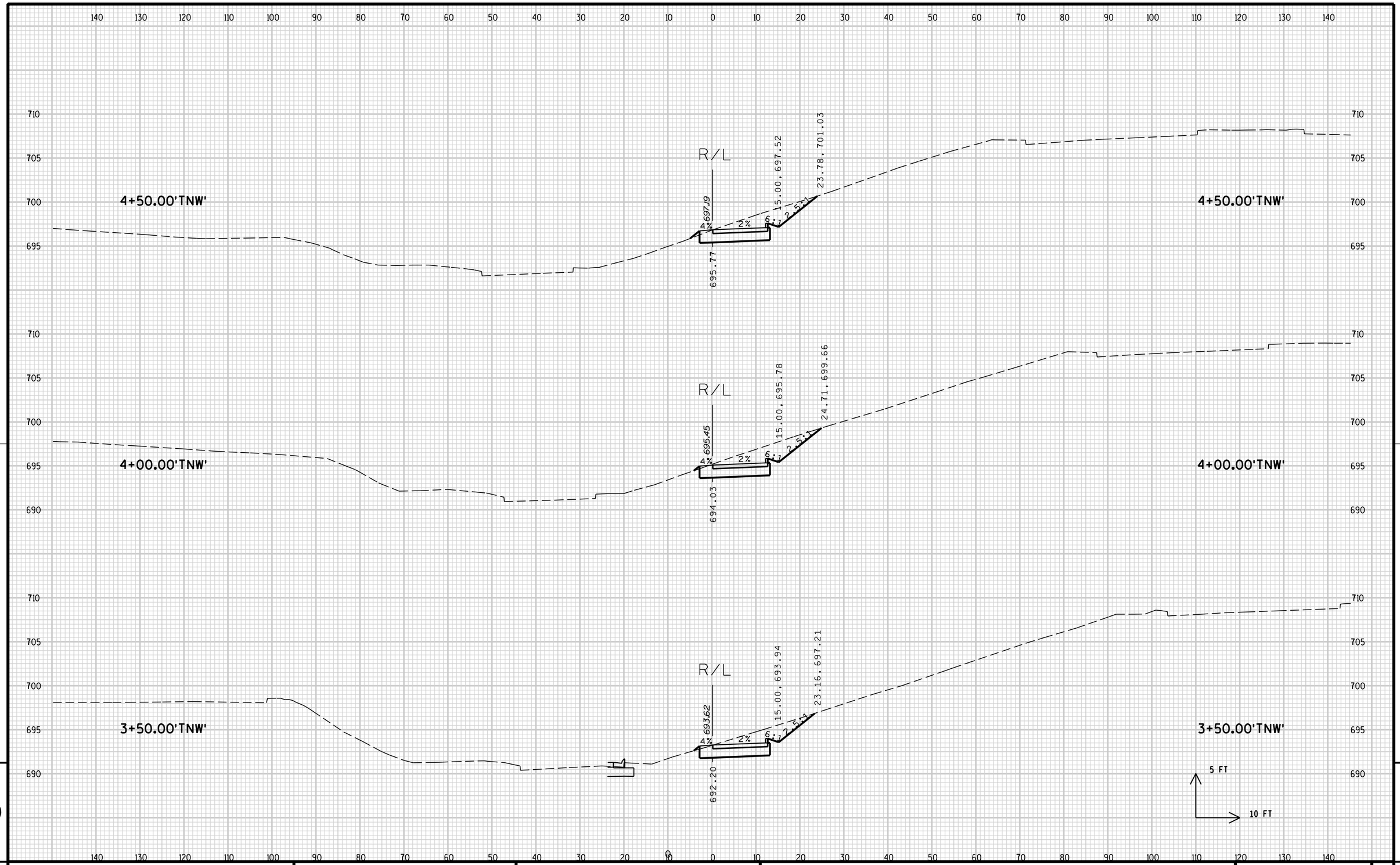
PROJECT NO: 2140-08-71	HWY: STH 181	COUNTY: MILWAUKEE	CROSS SECTIONS: TEMPORARY RAMP (BROWNDEER ROAD)	SHEET 1144	E



9

PROJECT NO: 2140-08-71	HWY: STH 181	COUNTY: MILWAUKEE	CROSS SECTIONS: TEMPORARY RAMP (BROWNDEER ROAD)	SHEET 1145	E

FILE NAME : s:\@SAI\051--100\089\099\Micros\DESIGN\0873\090213_xs_TNW.dgn PLOT DATE : 7/31/2007 PLOT BY : $$...plotuser...$$ PLOT NAME : PLOT SCALE : $$.....plotscale.....$$ WISDOT/CADDS SHEET 21



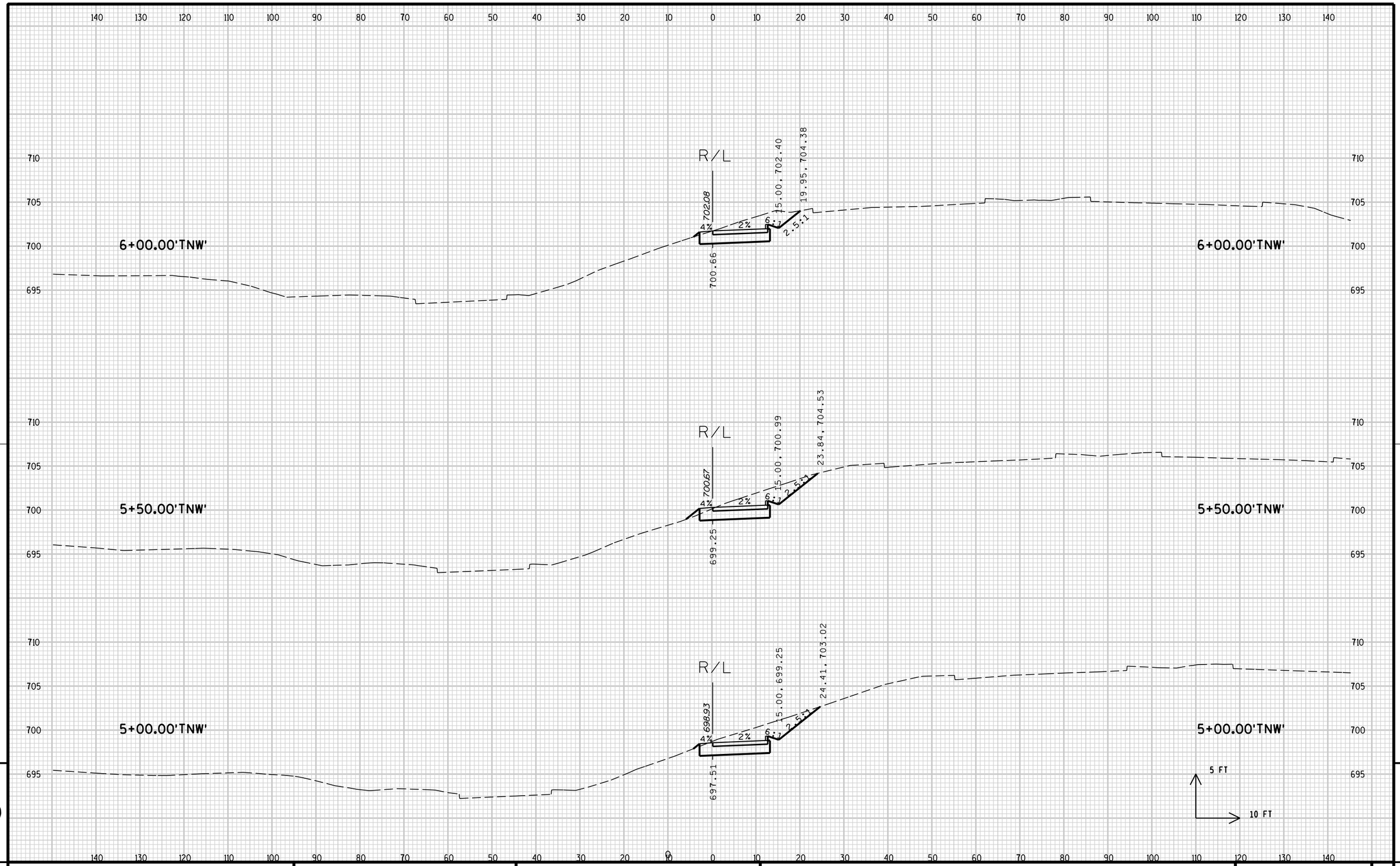
9

9

PROJECT NO: 2140-08-71	HWY: STH 181	COUNTY: MILWAUKEE	CROSS SECTIONS: TEMPORARY RAMP (BROWNDEER ROAD)	SHEET 1146	E

FILE NAME : s:\@SAI\051--100\089\099\Micros\DESIGN\0873\090213_xs_TNW.dgn PLOT DATE : 7/31/2007 PLOT BY : $$...plotuser...$$ PLOT NAME : PLOT SCALE : $$.....plotscale.....$$

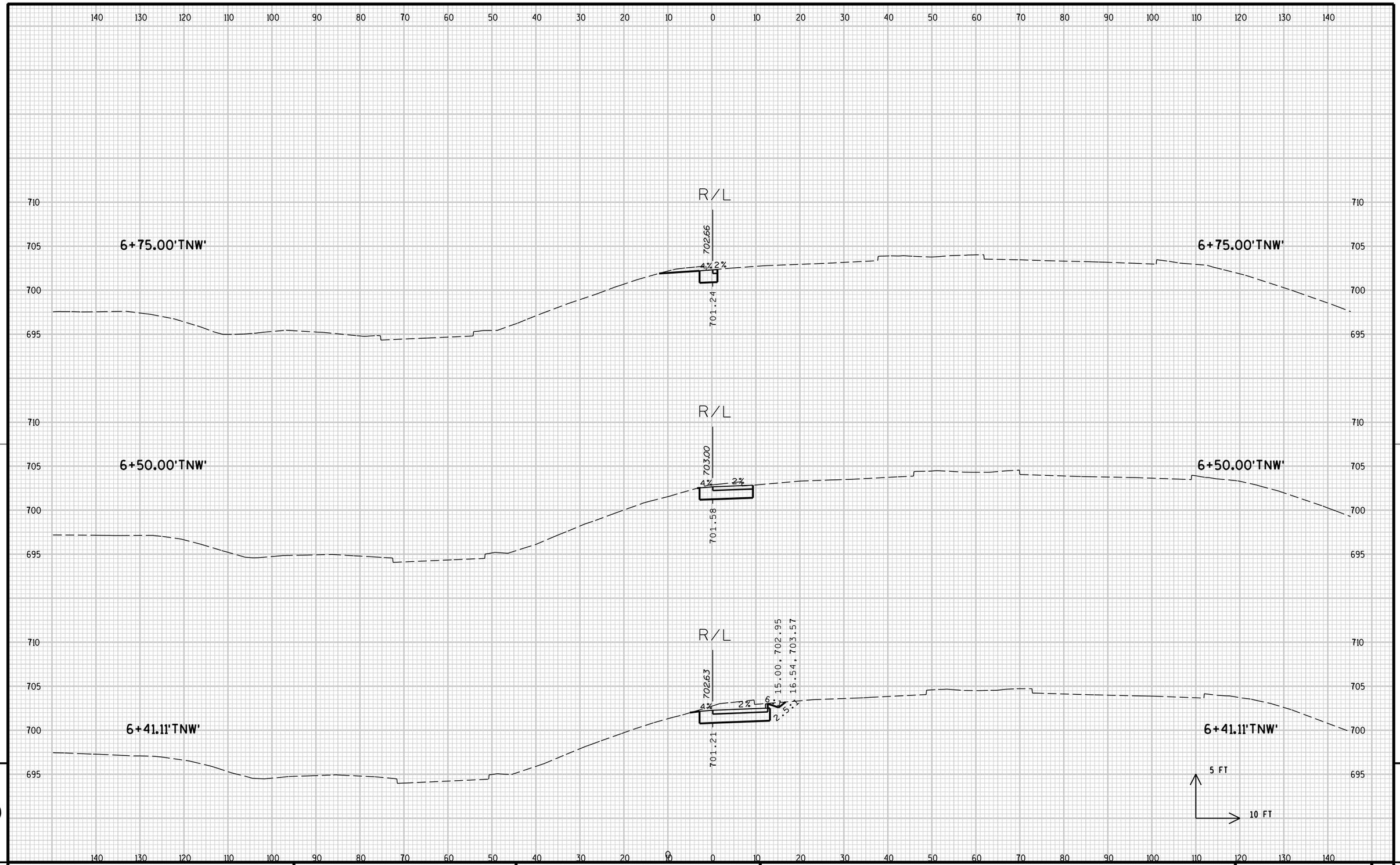
WISDOT/CADDS SHEET 21



9

9

PROJECT NO: 2140-08-71	HWY: STH 181	COUNTY: MILWAUKEE	CROSS SECTIONS: TEMPORARY RAMP (BROWNDEER ROAD)	SHEET 1147	E



9

9

PROJECT NO: 2140-08-71	HWY: STH 181	COUNTY: MILWAUKEE	CROSS SECTIONS: TEMPORARY RAMP (BROWNDEER ROAD)	SHEET 1148	E

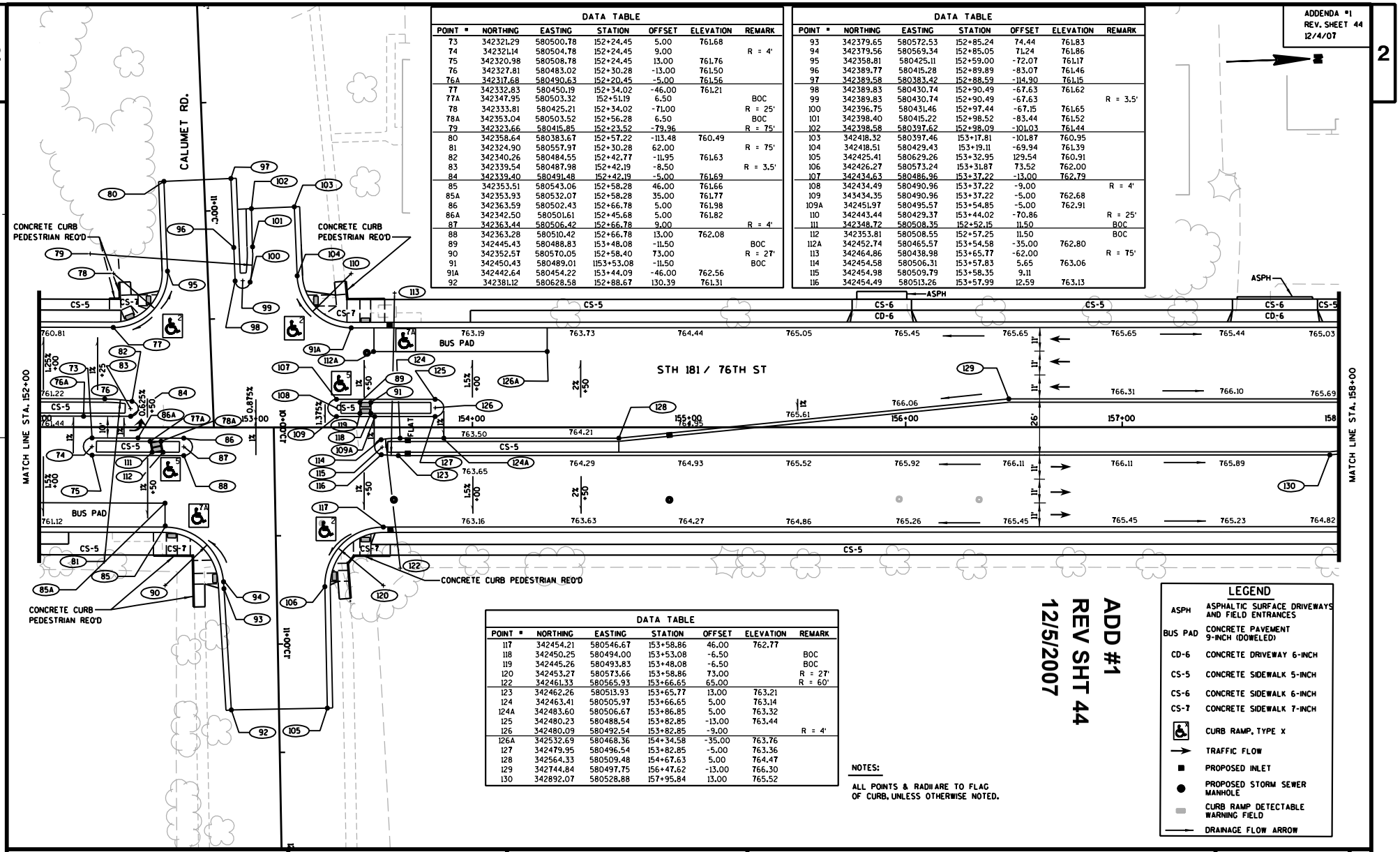
FILE NAME : s:\@SAI\051--100\089\099\Micros\DESIGN\0873\090213_xs_TNW.dgn PLOT DATE : 7/31/2007 PLOT BY : $$...plotuser...$$ PLOT NAME : PLOT SCALE : $$.....plotscale.....$$ WISDOT/CADDS SHEET 21

Notes

Wisconsin Department of Transportation

Dedicated people creating transportation solutions
through innovation and exceptional service.

http://www.dot.wisconsin.gov



ADDENDA #1
REV. SHEET 44
12/4/07

DATA TABLE						
POINT #	NORTHING	EASTING	STATION	OFFSET	ELEVATION	REMARK
73	342321.29	580500.78	152+24.45	5.00	761.68	
74	342321.14	580504.78	152+24.45	9.00		R = 4'
75	342320.98	580508.78	152+24.45	13.00	761.76	
76	342327.81	580483.02	152+30.28	-13.00	761.50	
76A	342317.68	580490.63	152+20.45	-5.00	761.56	
77	342332.83	580450.19	152+34.02	-46.00	761.21	
77A	342347.95	580503.32	152+51.19	6.50		BOC
78	342333.81	580425.21	152+34.02	-71.00		R = 25'
78A	342353.04	580503.52	152+56.28	6.50		BOC
79	342323.66	580415.85	152+23.52	-79.96		R = 75'
80	342358.64	580383.67	152+57.22	-113.48	760.49	
81	342324.90	580557.97	152+30.28	62.00		R = 75'
82	342340.26	580484.55	152+42.77	-11.95	761.63	
83	342339.54	580487.98	152+42.19	-8.50		R = 3.5'
84	342339.40	580491.48	152+42.19	-5.00	761.69	
85	342353.51	580543.06	152+58.28	46.00	761.66	
85A	342353.93	580532.07	152+58.28	35.00	761.77	
86	342363.59	580502.43	152+66.78	5.00	761.98	
86A	342342.50	580501.61	152+45.68	5.00	761.82	
87	342363.44	580506.42	152+66.78	9.00		R = 4'
88	342363.28	580510.42	152+66.78	13.00	762.08	
89	342445.43	580488.83	153+48.08	-11.50		BOC
90	342352.57	580570.05	152+58.40	73.00		R = 27'
91	342450.43	580489.01	1153+53.08	-11.50		BOC
91A	342442.64	580454.22	153+44.09	-46.00	762.56	
92	342381.12	580628.58	152+88.67	130.39	761.31	

DATA TABLE						
POINT #	NORTHING	EASTING	STATION	OFFSET	ELEVATION	REMARK
93	342379.65	580572.53	152+85.24	74.44	761.83	
94	342379.56	580569.34	152+85.05	71.24	761.86	
95	342358.81	580425.11	152+59.00	-72.07	761.17	
96	342389.77	580415.28	152+89.89	-83.07	761.46	
97	342389.58	580383.42	152+88.59	-114.90	761.15	
98	342389.83	580430.74	152+90.49	-67.63	761.62	
99	342389.83	580430.74	152+90.49	-67.63		R = 3.5'
100	342396.75	580431.46	152+97.44	-67.15	761.65	
101	342398.40	580415.22	152+98.52	-83.44	761.52	
102	342398.58	580397.62	152+98.09	-101.03	761.44	
103	342418.32	580397.46	153+17.81	-101.87	760.95	
104	342418.51	580429.43	153+19.11	-69.94	761.39	
105	342425.41	580629.26	153+32.95	129.54	760.91	
106	342426.27	580573.24	153+31.87	73.52	762.00	
107	342434.63	580486.96	153+37.22	-13.00	762.79	
108	342434.49	580490.96	153+37.22	-9.00		R = 4'
109	343434.35	580490.96	153+37.22	-5.00	762.68	
109A	342451.97	580495.57	153+54.85	-5.00	762.91	
110	342443.44	580429.37	153+44.02	-70.86		R = 25'
111	342348.72	580508.35	152+52.15	11.50		BOC
112	342353.81	580508.55	152+57.25	11.50		BOC
112A	342452.74	580465.57	153+54.58	-35.00	762.80	
113	342464.86	580438.98	153+65.77	-62.00		R = 75'
114	342454.58	580506.31	153+57.83	5.65	763.06	
115	342454.98	580509.79	153+58.35	9.11		
116	342454.49	580513.26	153+57.99	12.59	763.13	

DATA TABLE						
POINT #	NORTHING	EASTING	STATION	OFFSET	ELEVATION	REMARK
117	342454.21	580546.67	153+58.86	46.00	762.77	
118	342450.25	580494.00	153+53.08	-6.50		BOC
119	342445.26	580493.83	153+48.08	-6.50		BOC
120	342453.27	580573.66	153+58.86	73.00		R = 27'
122	342461.33	580565.93	153+66.65	65.00		R = 60'
123	342462.26	580513.93	153+65.77	13.00	763.21	
124	342463.41	580505.97	153+66.65	5.00	763.14	
124A	342483.60	580506.67	153+86.85	5.00	763.32	
125	342480.23	580488.54	153+82.85	-13.00	763.44	
126	342480.09	580492.54	153+82.85	-9.00		R = 4'
126A	342532.69	580468.36	154+34.58	-35.00	763.76	
127	342479.95	580496.54	153+82.85	-5.00	763.36	
128	342564.33	580509.48	154+67.63	5.00	764.47	
129	342744.84	580497.75	156+47.62	-13.00	766.30	
130	342892.07	580528.88	157+95.84	13.00	765.52	

NOTES:

ALL POINTS & RADII ARE TO FLAG OF CURB, UNLESS OTHERWISE NOTED.

ADD #1
REV SHT 44
12/5/2007

LEGEND

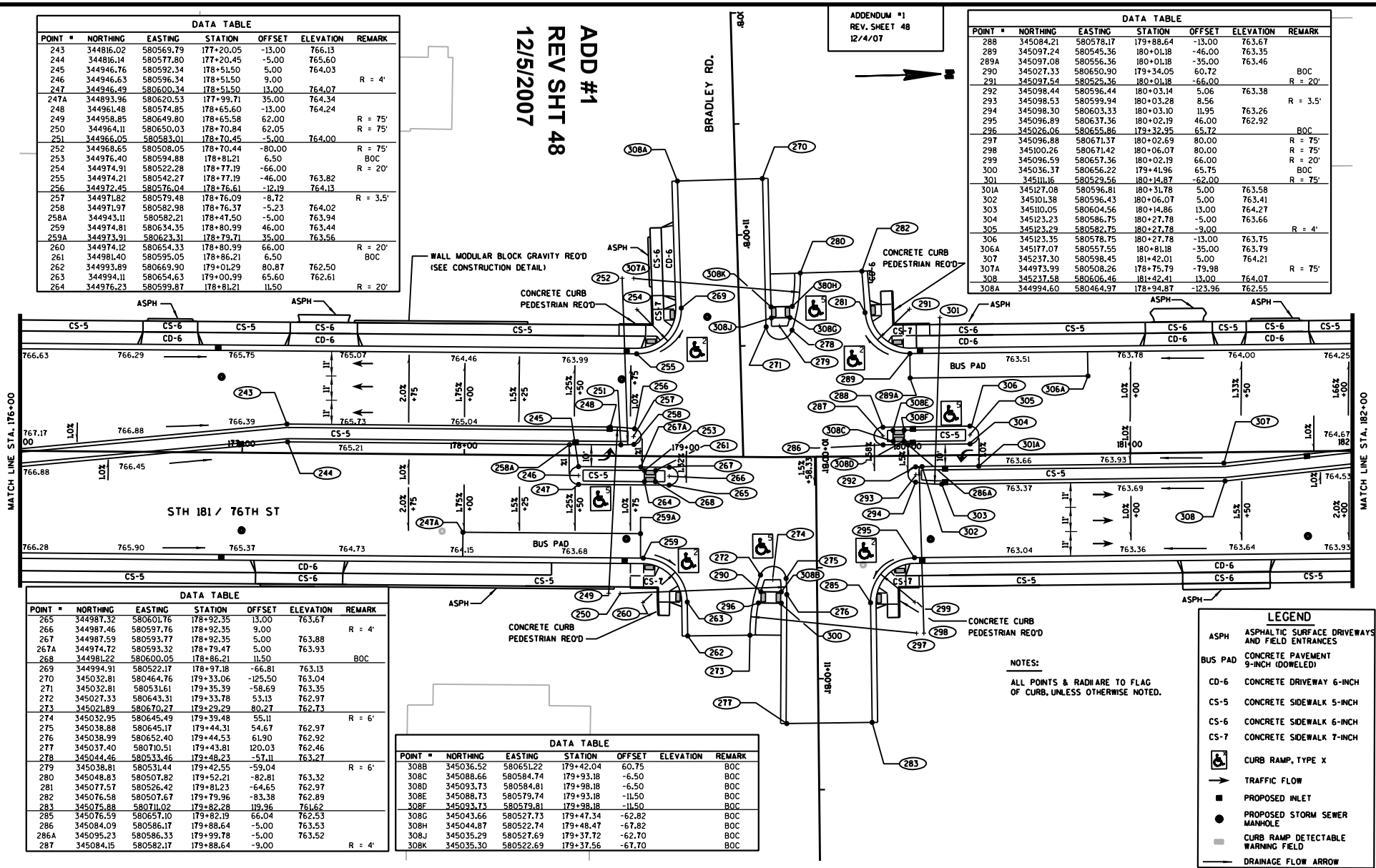
ASPH	ASPHALTIC SURFACE DRIVEWAYS AND FIELD ENTRANCES
BUS PAD	CONCRETE PAVEMENT 9-INCH (DOWELED)
CD-6	CONCRETE DRIVEWAY 6-INCH
CS-5	CONCRETE SIDEWALK 5-INCH
CS-6	CONCRETE SIDEWALK 6-INCH
CS-7	CONCRETE SIDEWALK 7-INCH
	CURB RAMP, TYPE X
	TRAFFIC FLOW
	PROPOSED INLET
	PROPOSED STORM SEWER MANHOLE
	CURB RAMP DETECTABLE WARNING FIELD
	DRAINAGE FLOW ARROW

PROJECT NO: 2140-08-73	HWY: STH 181	COUNTY: MILWAUKEE	PLAN DETAILS	SHEET	E

FILE NAME : s:\@SAI\051--100\089\099\Micros\DESIGN\0873\021204_pd.dgn PLOT DATE : 12/4/2007 PLOT BY : $$...plotuser...$$ PLOT NAME : PLOT SCALE : $$.....plotscale.....$$ WISDOT/CADDS SHEET 42

ADD #1
REV SHT 48
12/5/2007

ADDENDUM #1
REV. SHEET 48
12/4/07



DATA TABLE

POINT #	NORTHING	EASTING	STATION	OFFSET	ELEVATION	REMARK
243	344816.02	580569.79	177+20.05	-13.00	766.13	
244	344816.14	580577.80	177+20.45	-5.00	765.60	
245	344946.76	580592.34	178+51.50	5.00	764.03	
246	344946.63	580596.34	178+51.50	9.00		R = 4'
247	344946.49	580600.34	178+51.50	13.00	764.07	
247A	344893.96	580620.53	177+99.71	35.00	764.34	
248	344961.48	580574.85	178+65.60	-13.00	764.24	
249	344958.85	580649.80	178+65.58	62.00		R = 75'
250	344964.11	580650.03	178+70.84	62.05		R = 75'
251	344966.05	580583.01	178+70.45	-5.00	764.00	
252	344968.65	580508.05	178+70.44	-80.00		R = 75'
253	344976.40	580594.88	178+81.21	6.50		BOC
254	344974.91	580522.28	178+77.19	-66.00		R = 20'
255	344974.21	580542.27	178+77.19	-46.00	763.82	
256	344972.45	580576.04	178+76.61	-12.19	764.13	
257	344971.82	580579.48	178+76.09	-8.72		R = 3.5'
258	344971.97	580582.98	178+76.37	-5.23	764.02	
258A	344943.11	580582.21	178+47.50	-5.00	763.94	
259	344974.81	580634.35	178+80.99	46.00	763.44	
259A	344973.91	580623.31	178+79.71	35.00	763.56	
260	344974.12	580654.33	178+80.99	66.00		R = 20'
261	344981.40	580595.05	178+86.21	6.50		BOC
262	344993.89	580669.90	179+01.29	80.87	762.50	
263	344994.11	580654.63	179+00.99	65.60	762.61	
264	344976.23	580599.87	178+81.21	11.50		R = 20'

DATA TABLE

POINT #	NORTHING	EASTING	STATION	OFFSET	ELEVATION	REMARK
265	344987.32	580601.76	178+92.35	13.00	763.67	
266	344987.46	580597.76	178+92.35	9.00		R = 4'
267	344987.59	580593.77	178+92.35	5.00	763.88	
267A	344974.72	580593.32	178+79.47	5.00	763.93	
268	344981.22	580600.05	178+86.21	11.50		BOC
269	344994.91	580522.17	178+97.18	-66.81	763.13	
270	345032.81	580464.76	179+33.06	-125.50	763.04	
271	345032.81	580531.61	179+35.39	-58.69	763.35	
272	345027.33	580643.31	179+33.78	53.13	762.97	
273	345021.89	580670.27	179+29.29	80.27	762.73	
274	345032.95	580645.49	179+39.48	55.11		R = 6'
275	345038.88	580645.17	179+44.31	54.67	762.97	
276	345038.99	580652.40	179+44.53	61.90	762.92	
277	345037.40	580710.51	179+43.81	120.03	762.46	
278	345044.46	580533.46	179+48.23	-57.11	763.27	
279	345038.81	580531.44	179+42.55	-59.04		R = 6'
280	345048.83	580507.82	179+52.21	-82.81	763.32	
281	345077.57	580526.42	179+81.23	-64.65	762.97	
282	345076.58	580507.67	179+79.96	-83.38	762.89	
283	345075.88	580711.02	179+82.28	119.96	761.62	
285	345076.59	580657.10	179+82.19	66.04	762.53	
286	345084.09	580586.17	179+88.64	-5.00	763.53	
286A	345095.23	580586.33	179+99.78	-5.00	763.52	
287	345084.15	580582.17	179+88.64	-9.00		R = 4'

DATA TABLE

POINT #	NORTHING	EASTING	STATION	OFFSET	ELEVATION	REMARK
288	345084.21	580578.17	179+88.64	-13.00	763.67	
289	345097.24	580545.36	180+01.18	-46.00	763.35	
289A	345097.08	580556.36	180+01.18	-35.00	763.46	
290	345027.33	580650.90	179+34.05	60.72		BOC
291	345097.54	580525.36	180+01.18	-66.00		R = 20'
292	345098.44	580596.44	180+03.14	5.06	763.38	
293	345098.53	580599.94	180+03.28	8.56		R = 3.5'
294	345098.30	580603.33	180+03.10	11.95	763.26	
295	345096.89	580637.36	180+02.19	46.00	762.92	
296	345026.06	580655.86	179+32.95	65.72		BOC
297	345096.88	580671.37	180+02.69	80.00		R = 75'
298	345100.26	580671.42	180+06.07	80.00		R = 75'
299	345096.59	580657.36	180+02.19	66.00		R = 20'
300	345036.37	580656.22	179+41.96	65.75		BOC
301	345111.16	580529.56	180+14.87	-62.00		R = 75'
301A	345127.08	580596.81	180+31.78	5.00	763.58	
302	345101.38	580596.43	180+06.07	5.00	763.41	
303	345110.05	580604.56	180+14.86	13.00	764.27	
304	345123.23	580586.75	180+27.78	-5.00	763.66	
305	345123.29	580582.75	180+27.78	-9.00		R = 4'
306	345123.35	580578.75	180+27.78	-13.00	763.75	
306A	345177.07	580557.55	180+81.18	-35.00	763.79	
307	345237.30	580598.45	181+42.01	5.00	764.21	
307A	344973.99	580508.26	178+75.79	-79.98		R = 75'
308	345237.58	580606.46	181+42.41	13.00	764.07	
308A	344994.60	580464.97	178+94.87	-123.96	762.55	

DATA TABLE

POINT #	NORTHING	EASTING	STATION	OFFSET	ELEVATION	REMARK
308B	345036.52	580651.22	179+42.04	60.75		BOC
308C	345088.66	580584.74	179+93.18	-6.50		BOC
308D	345093.73	580584.81	179+98.18	-6.50		BOC
308E	345088.73	580579.74	179+93.18	-11.50		BOC
308F	345093.73	580579.81	179+98.18	-11.50		BOC
308G	345043.66	580527.73	179+47.34	-62.82		BOC
308H	345044.87	580522.74	179+48.47	-67.82		BOC
308J	345035.29	580527.69	179+37.72	-62.70		BOC
308K	345035.30	580522.69	179+37.56	-67.70		BOC

LEGEND

ASPH	ASPHALTIC SURFACE DRIVEWAYS AND FIELD ENTRANCES
BUS PAD	CONCRETE PAVEMENT 9-INCH (DOWELED)
CD-6	CONCRETE DRIVEWAY 6-INCH
CS-5	CONCRETE SIDEWALK 5-INCH
CS-6	CONCRETE SIDEWALK 6-INCH
CS-7	CONCRETE SIDEWALK 7-INCH
	CURB RAMP, TYPE X
	TRAFFIC FLOW
	PROPOSED INLET
	PROPOSED STORM SEWER MANHOLE
	CURB RAMP DETECTABLE WARNING FIELD
	DRAINAGE FLOW ARROW

PROJECT NO: 2140-08-73	HWY: STH 181	COUNTY: MILWAUKEE	PLAN DETAILS	SHEET	E

FILE NAME : s:\@SAI\051--100\089\099\Micros\DESIGN\0873\021208_pd.dgn PLOT DATE : 12/4/2007 PLOT BY : $$...plotuser...$$ PLOT NAME : PLOT SCALE : $$.....plotscale.....$$ WISDOT/CADDS SHEET 42

ADDENDUM #1
REV. SHEET 49
12/4/07

ADD #1
REV SHT 49
12/5/2007

DATA TABLE						
POINT #	NORTHING	EASTING	STATION	OFFSET	ELEVATION	REMARK
309	345347.72	580597.10	182+52.40	2.00	764.88	
310	345398.33	580597.85	183+03.02	2.00	765.05	
311	345399.22	580537.86	183+03.01	-58.00		R = 60'
312	345416.65	580643.13	183+22.00	47.00		R = 60'
313	345417.54	580583.13	183+22.00	-13.00	765.31	
314	345426.88	580584.01	183+31.36	-12.27	765.29	
315	345426.28	580587.46	183+30.81	-8.81		R = 3.5'
316	345427.96	580590.53	183+32.53	-5.76	765.15	
317	345543.33	580596.01	184+47.97	-2.00	764.60	
318	345534.87	580596.48	184+39.52	-1.40	764.66	
319	345535.31	580599.95	184+40.01	2.06		R = 3.5'
320	345533.53	580602.97	184+38.27	5.10	764.69	
321	345542.43	580656.00	184+47.97	58.00		R = 60'
322	345564.06	580551.31	184+68.03	-47.00		R = 60'
323	345557.85	580611.31	184+62.72	12.76	764.55	
324	345593.32	580596.75	184+97.97	-2.00	764.32	
325	345663.00	580661.35	185+37.72	2.00	764.08	
325A	345606.50	580633.96	185+11.70	35.00	763.83	
326	345668.47	580587.67	185+72.97	-12.80	764.11	
327	345666.83	580601.85	185+71.54	2.00	763.96	
328	345662.69	580646.79	185+68.08	47.00		R = 60'
328A	345686.49	580635.15	185+91.70	35.00	763.66	
329	345668.03	580541.86	185+71.86	-58.00		R = 60'
330	345682.93	580600.00	185+87.62	-0.09	764.05	
331	345681.78	580595.03	185+86.39	-5.04		R = 5'

DATA TABLE						
POINT #	NORTHING	EASTING	STATION	OFFSET	ELEVATION	REMARK
332	345683.35	580590.46	185+87.90	-9.63	764.08	
333	345683.91	580554.10	185+87.91	-46.00	763.47	
334	345684.28	580529.10	185+87.91	-71.00		R = 25'
334A	345701.86	580546.87	186+05.76	-53.50	763.55	
335	345709.28	580528.99	186+12.91	-71.49	763.42	
336	345709.17	580485.83	186+12.16	-114.64	763.19	
337	345746.56	580485.63	186+49.54	-115.39	762.77	
338	345750.58	580528.77	186+54.20	-72.32	763.71	
339	345750.96	580532.84	186+54.64	-68.26	763.79	
340	345759.70	580588.23	186+64.20	-13.00	764.66	
341	345759.64	580592.23	186+64.20	-9.00		R = 4'
342	345759.58	580596.23	186+64.20	-5.00	764.60	
343	345775.85	580530.47	186+79.49	-71.00		R = 25'
343A	345764.66	580589.81	186+69.19	-11.50		BOC
344	345775.48	580555.46	186+79.49	-46.00	764.20	
344A	345775.32	580566.46	186+79.49	-35.00	764.42	
345	345790.10	580606.69	186+94.88	5.00	764.90	
345A	345818.73	580607.11	187+23.50	5.00	765.40	
346	345790.05	580610.19	186+94.88	8.50		R = 3.5'
347	345789.42	580613.63	186+94.29	11.95	765.05	
348	345801.91	580614.86	187+06.80	13.00	765.25	
349	345803.00	580539.87	187+06.78	-62.00		R = 75'
350	345814.87	580589.05	187+19.38	-13.00	765.50	
350A	345855.31	580567.65	187+59.49	-35.00	765.92	
351	345814.81	580593.05	187+19.38	-9.00		R = 4'

DATA TABLE						
POINT #	NORTHING	EASTING	STATION	OFFSET	ELEVATION	REMARK
351A	345892.59	580608.21	187+97.38	5.00	767.17	
352	345814.75	580597.05	187+19.38	-5.00	765.42	
352A	345786.76	580596.64	186+91.38	-5.00	765.00	
352B	345769.66	580589.88	186+74.19	-11.50		BOC
352C	345764.59	580594.80	186+69.19	-6.50		BOC
352D	345769.59	580594.88	186+74.19	-6.50		BOC
352E	345687.81	580648.67	185+93.22	48.50		BOC
352F	345692.80	580648.74	185+98.22	48.50		BOC
352G	345763.77	580649.80	186+69.19	48.50		BOC
352H	345768.77	580649.87	186+74.19	48.50		BOC

NOTES:

ALL POINTS & RADII ARE TO FLAG OF CURB, UNLESS OTHERWISE NOTED.

LEGEND

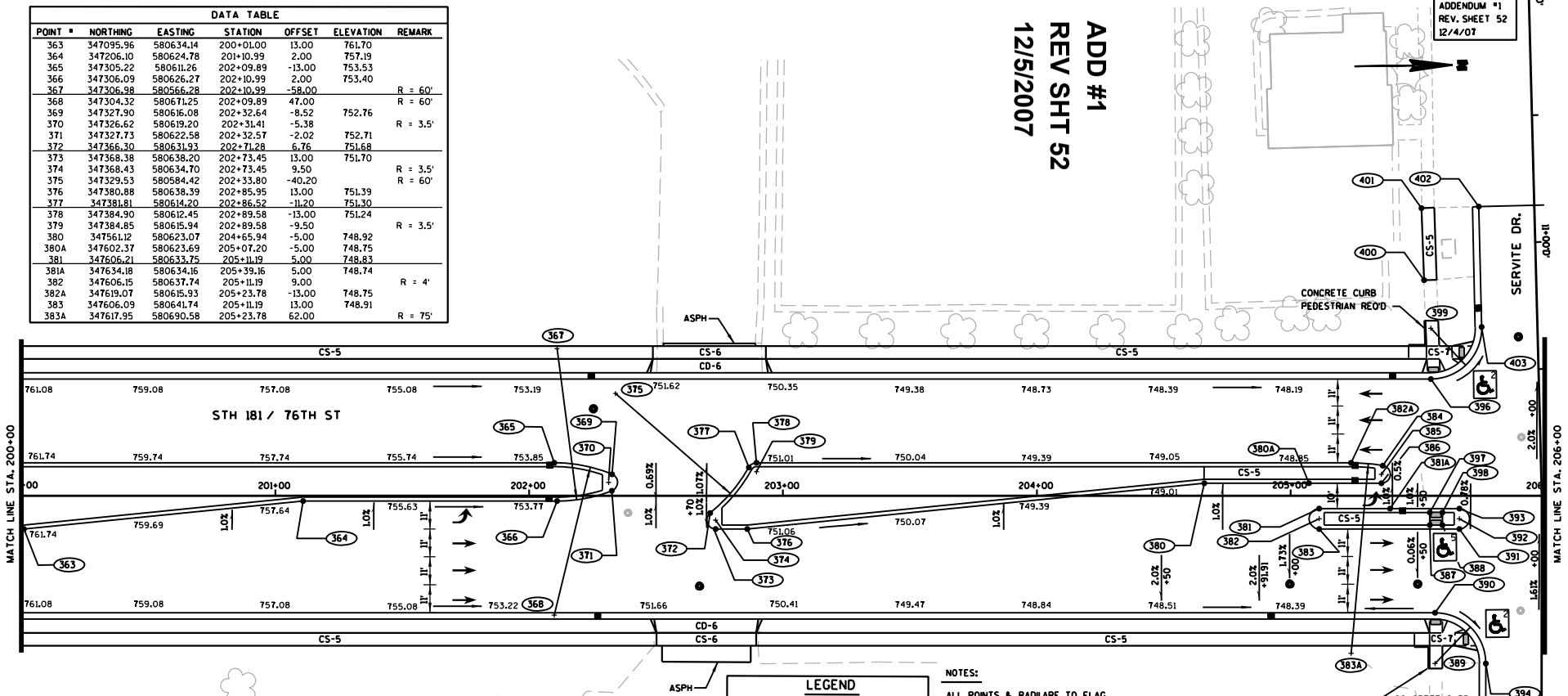
ASPH	ASPHALTIC SURFACE DRIVEWAYS AND FIELD ENTRANCES
BUS PAD	CONCRETE PAVEMENT 9-INCH (DOWELED)
CD-6	CONCRETE DRIVEWAY 6-INCH
CS-5	CONCRETE SIDEWALK 5-INCH
CS-6	CONCRETE SIDEWALK 6-INCH
CS-7	CONCRETE SIDEWALK 7-INCH
	CURB RAMP, TYPE X
	TRAFFIC FLOW
	PROPOSED INLET
	PROPOSED STORM SEWER MANHOLE
	CURB RAMP DETECTABLE WARNING FIELD
	DRAINAGE FLOW ARROW

PROJECT NO: 2140-08-73	HWY: STH 181	COUNTY: MILWAUKEE	PLAN DETAILS	SHEET	E

ADD #1
REV SHT 52
12/5/2007

ADDENDUM #1
REV. SHEET 52
12/4/07

DATA TABLE						
POINT #	NORTHING	EASTING	STATION	OFFSET	ELEVATION	REMARK
363	347095.96	580634.14	200+01.00	13.00	761.70	
364	347206.10	580624.78	201+10.99	2.00	757.19	
365	347305.22	580611.26	202+09.89	-13.00	753.53	
366	347306.09	580626.27	202+10.99	2.00	753.40	
367	347306.98	580566.28	202+10.99	-58.00		R = 60'
368	347304.32	580671.25	202+09.89	47.00		R = 60'
369	347327.90	580616.08	202+32.64	-8.52	752.76	
370	347326.62	580619.20	202+31.41	-5.38		R = 3.5'
371	347327.73	580622.58	202+32.57	-2.02	752.71	
372	347366.30	580631.93	202+71.28	6.76	751.68	
373	347368.38	580638.20	202+73.45	13.00	751.70	
374	347368.43	580634.70	202+73.45	9.50		R = 3.5'
375	347329.53	580584.42	202+33.80	-40.20		R = 60'
376	347380.88	580638.39	202+85.95	13.00	751.39	
377	347381.81	580614.20	202+86.52	-11.20	751.30	
378	347384.90	580612.45	202+89.58	-13.00	751.24	
379	347384.85	580615.94	202+89.58	-9.50		R = 3.5'
380	347561.12	580623.07	204+65.94	-5.00	748.92	
380A	347602.37	580623.69	205+07.20	-5.00	748.75	
381	347606.21	580633.75	205+11.19	5.00	748.83	
381A	347634.18	580634.16	205+39.16	5.00	748.74	
382	347606.15	580637.74	205+11.19	9.00		R = 4'
382A	347619.07	580615.93	205+23.78	-13.00	748.75	
383	347606.09	580641.74	205+11.19	13.00	748.91	
383A	347617.95	580690.58	205+23.78	62.00		R = 75'



DATA TABLE						
POINT #	NORTHING	EASTING	STATION	OFFSET	ELEVATION	REMARK
384	347631.55	580617.17	205+36.28	-11.95	748.69	
385	347630.92	580620.61	205+35.69	-8.50		R =3.5'
386	347630.87	580624.11	205+35.69	-5.00	748.65	
387	347649.66	580640.89	205+54.74	11.50		BOC
388	347654.66	580640.97	205+59.74	11.50		BOC
389	347650.93	580695.42	205+56.82	66.00		R = 20'
390	347651.23	580675.42	205+56.82	46.00	748.78	
391	347661.33	580642.57	205+66.43	13.00	748.67	
392	347661.39	580638.57	205+66.43	9.00		R = 4'
393	347661.45	580634.57	205+66.43	5.00	748.59	
394	347670.93	580695.75	205+76.82	66.03	748.66	
395	347670.17	580749.76	205+76.87	120.05	748.19	
396	347650.94	580583.41	205+55.16	-46.00	747.96	
397	347649.74	580635.89	205+54.74	6.50		BOC
398	347654.74	580635.97	205+59.74	6.50		BOC
399	347651.24	580563.41	205+55.16	-66.00		R = 20'
400	347648.88	580544.43	205+52.52	-84.94		
401	347648.31	580516.04	205+51.52	-113.32		
402	347670.90	580515.78	205+74.11	-113.92	747.86	
403	347671.24	580563.22	205+75.15	-66.49	747.70	

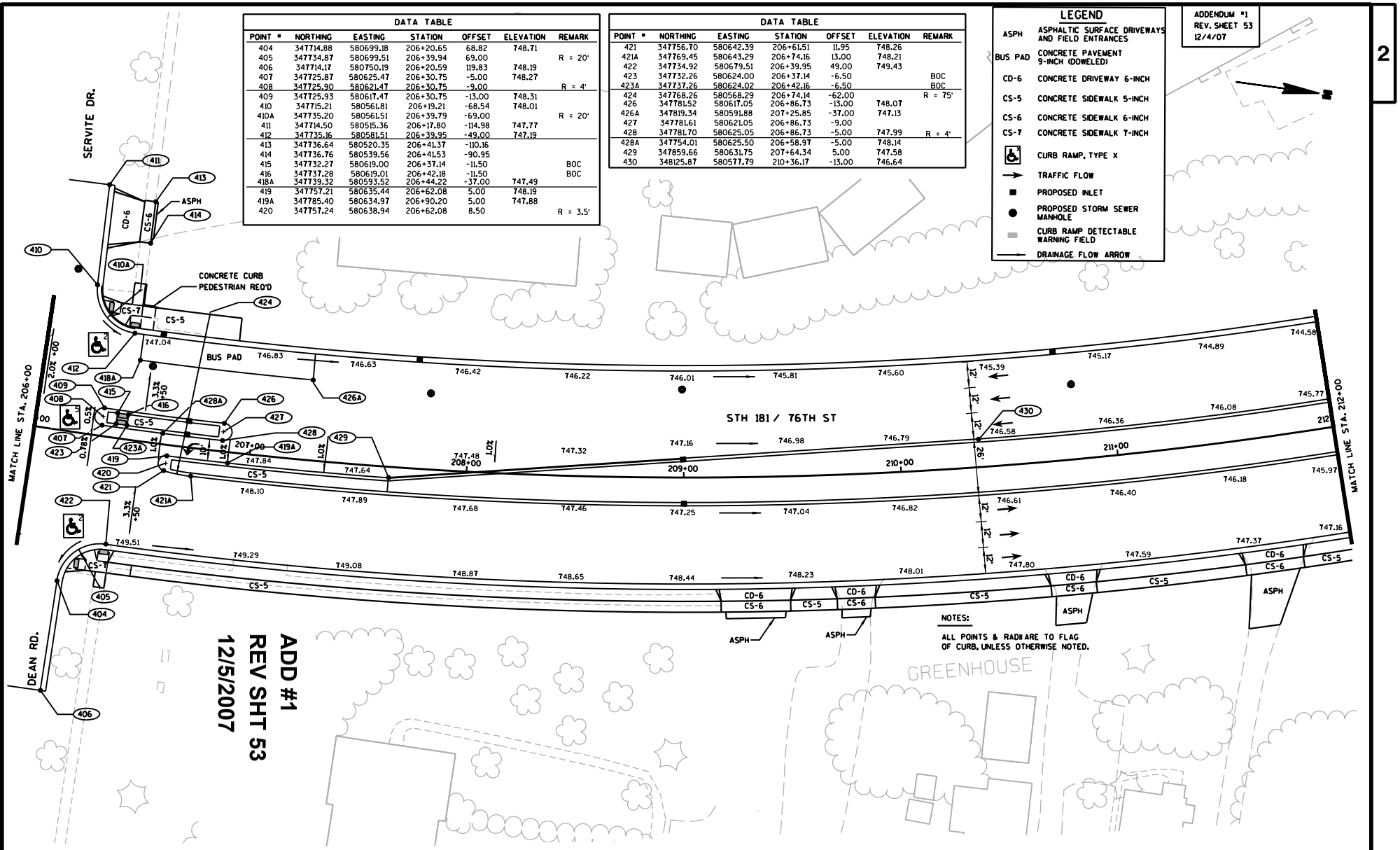
LEGEND

ASPH	ASPHALTIC SURFACE DRIVEWAYS AND FIELD ENTRANCES
BUS PAD	CONCRETE PAVEMENT 9-INCH (DOWELED)
CD-6	CONCRETE DRIVEWAY 6-INCH
CS-5	CONCRETE SIDEWALK 5-INCH
CS-6	CONCRETE SIDEWALK 6-INCH
CS-7	CONCRETE SIDEWALK 7-INCH
	CURB RAMP, TYPE X
	TRAFFIC FLOW
	PROPOSED INLET
	PROPOSED STORM SEWER MANHOLE
	CURB RAMP DETECTABLE WARNING FIELD
	DRAINAGE FLOW ARROW

NOTES:

ALL POINTS & RADII ARE TO FLAG OF CURB, UNLESS OTHERWISE NOTED.

PROJECT NO: 2140-08-73	HWY: STH 181	COUNTY: MILWAUKEE	PLAN DETAILS	SHEET	E



DATA TABLE

POINT #	NORTHING	EASTING	STATION	OFFSET	ELEVATION	REMARK
404	347714.88	580699.18	206+20.65	68.82	748.71	
405	347734.87	580699.51	206+39.94	69.00		R = 20'
406	347714.17	580750.19	206+20.59	119.83	748.19	
407	347725.87	580625.47	206+30.75	-5.00	748.27	
408	347725.90	580621.47	206+30.75	-9.00		R = 4'
409	347725.93	580617.47	206+30.75	-13.00	748.31	
410	347715.21	580561.81	206+19.21	-68.54	748.01	
410A	347735.20	580561.51	206+39.79	-69.00		R = 20'
411	347714.50	580515.36	206+17.80	-114.98	747.77	
412	347735.16	580581.51	206+39.95	-49.00	747.19	
413	347736.64	580520.35	206+41.37	-110.16		
414	347736.76	580539.56	206+41.53	-90.95		
415	347732.27	580619.00	206+37.14	-11.50		BOC
416	347737.28	580619.01	206+42.18	-11.50		BOC
418A	347739.32	580593.52	206+44.22	-37.00	747.49	
419	347757.21	580635.44	206+62.08	5.00	748.19	
419A	347785.40	580634.97	206+90.20	5.00	747.88	
420	347757.24	580638.94	206+62.08	8.50		R = 3.5'

DATA TABLE

POINT #	NORTHING	EASTING	STATION	OFFSET	ELEVATION	REMARK
421	347756.70	580642.39	206+61.51	11.95	748.26	
421A	347769.45	580643.29	206+74.16	13.00	748.21	
422	347734.92	580679.51	206+39.95	49.00	749.43	
423	347732.26	580624.00	206+37.14	-6.50		BOC
423A	347737.26	580624.02	206+42.16	-6.50		BOC
424	347768.26	580568.29	206+74.14	-62.00		R = 75'
426	347781.52	580617.05	206+86.73	-13.00	748.07	
426A	347819.34	580591.88	207+25.85	-37.00	747.13	
427	347781.61	580621.05	206+86.73	-9.00		
428	347781.70	580625.05	206+86.73	-5.00	747.99	R = 4'
428A	347754.01	580625.50	206+58.97	-5.00	748.14	
429	347859.66	580631.75	207+64.34	5.00	747.58	
430	348125.87	580577.79	210+36.17	-13.00	746.64	

LEGEND

ASPH	ASPHALTIC SURFACE DRIVEWAYS AND FIELD ENTRANCES
BUS PAD	CONCRETE PAVEMENT 9-INCH (DOWELED)
CD-6	CONCRETE DRIVEWAY 6-INCH
CS-5	CONCRETE SIDEWALK 5-INCH
CS-6	CONCRETE SIDEWALK 6-INCH
CS-7	CONCRETE SIDEWALK 7-INCH
	CURB RAMP, TYPE X
	TRAFFIC FLOW
	PROPOSED INLET
	PROPOSED STORM SEWER MANHOLE
	CURB RAMP DETECTABLE WARNING FIELD
	DRAINAGE FLOW ARROW

ADDENDUM #1
REV. SHEET 53
12/4/07

NOTES:
ALL POINTS & RADII ARE TO FLAG OF CURB, UNLESS OTHERWISE NOTED.

PROJECT NO: 2140-08-73	HWY: STH 181	COUNTY: MILWAUKEE	PLAN DETAILS	SHEET	E

FILE NAME : s:\@SAI\051--100\089\099\Micros\DESIGN\0873\021213_pd.dgn PLOT DATE : 12/4/2007 PLOT BY : $$...plotuser...$$ PLOT NAME : PLOT SCALE : $$.....plotscale.....$$ WISDOT/CADDS SHEET 42

ADDENDUM #1
REV. SHEET 61
12/4/07

ADD #1
REV SHT 61
12/5/2007

DATA TABLE

POINT #	NORTHING	EASTING	STATION	OFFSET	ELEVATION	REMARK
540	352468.72	580735.16	254+75.05	50.00		
541	352468.39	580722.16	254+74.45	37.00	700.27	
542	352491.40	580680.62	254+96.61	-5.00	700.85	
543	352545.78	580723.74	255+51.86	37.00	701.05	
544	352545.52	580736.73	255+51.86	50.00		
545	352543.74	580823.71	255+51.86	137.00		R = 100'
545A	352593.76	580712.71	255+99.60	25.00	701.72	
546	352567.85	580740.12	255+74.25	52.93		
547	352571.45	580727.63	255+77.60	40.37	701.20	
548	352644.16	580693.73	256+49.60	5.00	702.22	
549	352644.08	580697.73	256+49.60	9.00		R = 4'
550	352644.00	580701.73	256+49.60	13.00	702.32	
551	352657.22	580675.99	256+62.30	-13.00	702.84	
552	352670.01	580652.25	256+74.60	-37.00	702.83	
553	352674.12	580695.84	256+79.69	6.50		BOC
554	352670.52	580627.26	256+74.60	-62.00		R = 25'
555	352640.43	580683.65	256+45.68	-5.00	702.11	
556	352679.12	580695.94	256+84.60	6.50		BOC
557	352668.76	580609.33	256+72.48	-79.89		
558	352669.58	580677.28	256+74.68	-11.97	702.94	
559	352668.93	580680.72	256+74.10	-8.50		R = 3.5'
560	352668.94	580684.22	256+74.18	-5.00	702.88	
561	352687.03	580694.61	256+92.48	5.00	702.80	
562	352686.95	580698.60	256+92.48	9.00		R = 4'
563	352686.86	580702.60	256+92.48	13.00	702.66	

DATA TABLE

POINT #	NORTHING	EASTING	STATION	OFFSET	ELEVATION	REMARK
564	352639.57	580729.65	256+45.74	41.00	701.96	
564A	352672.24	580694.30	256+77.69	5.00	702.79	
565	352639.18	580732.59	256+45.42	43.95	701.89	
566	352655.69	580750.98	256+62.30	62.00		R = 75'
567	352639.60	580731.15	256+45.81	42.50		R = 1.5'
568	352639.65	580725.65	256+45.74	37.00	702.01	
569	352662.03	580785.00	256+69.33	95.88		R = 30'
570	352670.35	580756.15	256+77.06	66.87	701.87	
571	352687.69	580728.63	256+93.83	39.00	702.42	
571A	352673.75	580714.34	256+79.61	25.00	702.44	

DATA TABLE

POINT #	NORTHING	EASTING	STATION	OFFSET	ELEVATION	REMARK
572	352687.74	580731.13	256+93.94	41.50		R = 2.5'
573	352690.24	580731.18	256+96.44	41.50	702.44	
574	352689.99	580742.66	256+96.42	52.99	702.29	
575	352686.61	580742.59	256+93.04	52.98		R = 2.5'
576	352686.77	580746.31	256+93.28	56.70	702.25	
577	352719.96	580749.16	257+26.52	58.87	702.40	
578	352691.79	580797.75	256+99.34	108.03	702.19	
579	352716.49	580770.35	257+23.48	80.13	702.51	
580	352692.04	580785.58	256+99.34	95.85	702.11	
581	352715.97	580798.25	257+23.53	108.04	702.66	
582	352729.56	580810.50	257+37.37	120.00	702.70	
583	352730.71	580750.92	257+37.30	60.42	702.40	
584	352725.21	580750.82	257+31.80	60.42		R = 5.5'
585	352695.51	580627.76	256+99.60	-62.00	703.71	
586	352737.14	580621.70	257+41.10	-68.91		R = 5.5'
587	352731.64	580621.60	257+35.60	-68.90	704.18	
588	352696.53	580574.80	256+99.54	-114.98	704.48	
589	352732.52	580575.51	257+35.54	-114.99	705.16	
590	352743.86	580605.69	257+47.49	-85.06	704.58	
591	352743.75	580610.86	257+47.49	-79.89	704.89	

DATA TABLE

POINT #	NORTHING	EASTING	STATION	OFFSET	ELEVATION	REMARK
592	352742.55	580622.69	257+46.53	-68.03	703.96	
593	352767.86	580606.21	257+71.49	-85.02	703.85	
594	352767.57	580619.23	257+71.47	-72.00	703.64	
595	352792.57	580619.74	257+96.48	-72.00		R = 25'
596	352792.06	580644.73	257+96.47	-47.00	703.83	
596A	352791.85	580654.73	257+96.47	-37.00	703.88	
597	352773.24	580682.36	257+78.43	-9.00		R = 4'
597A	352782.55	580680.05	257+87.69	-11.50		BOC
598	352773.32	580678.36	257+78.43	-13.00	703.84	
598A	352787.55	580680.15	257+92.69	-11.50		BOC

DATA TABLE

POINT #	NORTHING	EASTING	STATION	OFFSET	ELEVATION	REMARK
599	352773.16	580686.36	257+78.43	-5.00	703.68	
599A	352789.93	580686.70	257+95.20	-5.00	703.73	
600	352793.21	580696.77	257+98.69	5.00	703.58	
600A	352821.71	580697.35	258+27.19	5.00	704.09	
601	352793.14	580700.27	257+98.69	8.50		R = 3.5'
601A	352782.45	580685.05	257+87.69	-6.50		BOC
602	352763.66	580811.18	257+71.47	119.99	702.12	
602A	352787.40	580685.15	257+92.69	-6.50		BOC
603	352791.52	580771.77	257+98.52	80.02		R = 75'
604	352764.62	580758.28	257+71.35	67.08	702.93	

DATA TABLE

POINT #	NORTHING	EASTING	STATION	OFFSET	ELEVATION	REMARK
605	352674.02	580700.84	256+79.60	11.50		BOC
606	352789.62	580758.71	257+96.35	67.00		R = 25'
607	352679.02	580700.94	256+84.60	11.50		BOC
608	352790.12	580733.71	257+96.35	42.00	703.18	
609	352792.49	580703.71	257+98.11	11.95	703.47	
610	352804.96	580705.01	258+10.60	13.00	703.58	
611	352806.49	580630.02	258+10.60	-62.00		R = 75'
612	352787.40	580685.15	257+92.69	-6.50		
613	352818.08	580679.27	258+23.19	-13.00	704.23	
614	352817.99	580683.27	258+23.19	-9.00	0.00	R = 4'
614A	352871.84	580656.36	258+76.47	-37.00	704.38	
615	352817.91	580687.27	258+23.19	-5.00	704.19	
616	352970.68	580700.38	259+76.19	5.00	705.25	

NOTES:
ALL POINTS & RADII ARE TO FLAG OF CURB, UNLESS OTHERWISE NOTED.

LEGEND

ASPH	ASPHALTIC SURFACE DRIVEWAYS AND FIELD ENTRANCES
BUS PAD	CONCRETE PAVEMENT 9-INCH (DOWELED)
CD-6	CONCRETE DRIVEWAY 6-INCH
CS-5	CONCRETE SIDEWALK 5-INCH
CS-6	CONCRETE SIDEWALK 6-INCH
CS-7	CONCRETE SIDEWALK 7-INCH
	CURB RAMP, TYPE X
	TRAFFIC FLOW
	PROPOSED INLET
	PROPOSED STORM SEWER MANHOLE
	CURB RAMP DETECTABLE WARNING FIELD
	DRAINAGE FLOW ARROW

PRIVATE ROAD
NORTHRIDGE LAKES BLVD
STH 181 / 76TH ST
MATCH LINE STA. 254+00
MATCH LINE STA. 260+00
CONCRETE CURB PEDESTRIAN REQ'D
WALL MODULAR BLOCK GRAVITY REQ'D (SEE CONSTRUCTION DETAIL)
BUS PAD
BIKE LANE / TURNING LANE
BIKE LANE

PROJECT NO: 2140-08-73	HWY: STH 181	COUNTY: MILWAUKEE	PLAN DETAILS	SHEET	E

ADDENDUM #1
REV. SHEET 584
12/4/07

CONCRETE SIDEWALK

CATEGORY	STATION-STATION	OFFSET	602.0410 5-INCH SF	602.0420 7-INCH SF
0010	143+66 - 143+86	RT	139	---
	143+71 - 143+76	MEDIAN	105	---
	144+35 - 144+82	MEDIAN	233	---
	144+62 - 145+70	MEDIAN	539	---
	150+12 - 152+40	MEDIAN	1136	---
	152+26 - 152+65	MEDIAN	191	---
	11+00 'C' - 11+30 'C'	MEDIAN	106	---
	152+53 - 152+83	RT	---	399
	153+23 - 153+59	LT	---	372
	153+34 - 153+81	MEDIAN	237	---
	153+34 - 153+44	RT	---	142
	153+61 - 154+68	MEDIAN	534	---
	161+09 - 161+14	MEDIAN	38	---
	167+07 - 167+12	MEDIAN	60	---
	172+45 - 173+51	MEDIAN	528	---
	173+31 - 173+87	MEDIAN	280	---
	174+46 - 174+99	MEDIAN	268	---
	174+79 - 178+74	MEDIAN	1973	---
	178+54 - 178+90	MEDIAN	184	---
	178+68 - 178+76	RT	80	---
	178+76 - 178+99	RT	---	273
	178+61 - 178+70	LT	45	---
	178+70 - 178+95	LT	---	250
	11+33 'B' - 11+42 'B'	MEDIAN	74	---
	10+55 'B1' - 10+66 'B1'	MEDIAN	96	---
	179+82 - 180+09	LT	---	328
	179+85 - 179+95	RT	---	151
	179+91 - 180+26	MEDIAN	176	---
	180+06 - 182+52	MEDIAN	1234	---
	184+98 - 185+22	MEDIAN	124	---
	186+66 - 187+17	MEDIAN	256	---
	186+97 - 187+97	MEDIAN	498	---
	204+66 - 205+33	MEDIAN	335	---
	205+13 - 205+64	MEDIAN	256	---
	205+55 - 205+74	RT	---	181
	10+86 'D' - 11+14 'D'	RT	140	---
	205+53 - 205+72	LT	---	174
	206+33 - 206+85	MEDIAN	254	---
	206+23 - 206+48	LT	---	241
	206+24 - 206+52	RT	---	160
	206+52 - 209+17	RT	1586	---
	206+65 - 207+64	MEDIAN	499	---
	213+26 - 213+71	MEDIAN	224	---
	213+51 - 214+59	MEDIAN	539	---
	232+20 'SE1' - 232+31 'SE1'	LT	136	---
	232+33 'SE' - 232+68 'SE'	LT	297	---
	232+63 'SW' - 232+72 'SW'	RT	91	---
	232+64 'SW' - 232+96 'SW'	LT	147	---
	232+54 'SW1' - 232+62 'SW1'	LT	39	---
	232+57 'SW1 - 232+65 'SW1'	RT	100	---
	232+71 'SE' - 232+96 'SE'	RT	103	---
	120+03 'BD' - 120+17 'BD'	RT	79	---
	120+45 'BD' - 120+65 'BD'	RT	100	---
	120+66 'BD' - 120+90 'BD'	LT	119	---
	123+24 'BD' - 123+49 'BD'	RT	129	---
	123+52 'BD' - 123+78 'BD'	LT	137	---
	124+04 'BD' - 124+21 'BD'	LT	93	---
	232+85 'NW' - 233+08 'NW'	LT	98	---
	233+15 'NW' - 233+52 'NW'	RT	258	---
	233+56 'NW1' - 233+68 'NW1'	RT	118	---
	233+90 'NE1' - 234+05 'NE1'	LT	137	---
	234+06 'NE1' - 234+17 'NE1'	RT	93	---
	243+80 - 256+75	RT	3973	---
	248+00 - 250+09	MEDIAN	1045	---
	249+89 - 250+20	MEDIAN	155	---
	10+91 'N' - 11+60 'N'	ISLAND	1017	---
	251+21 - 251+26	MEDIAN	167	---
	254+96 - 256+72	MEDIAN	873	---
	256+46 - 256+96	ISLAND	474	---

CONT. ABOVE

CONCRETE SIDEWALK (CONT.)

CATEGORY	STATION-STATION	OFFSET	602.0410 5-INCH SF	602.0420 7-INCH SF
0010	256+52 - 256+90	MEDIAN	194	---
	257+74 - 258+01	RT	---	280
	258+01 - 261+61	RT	1805	---
	257+78 - 258+00	LT	---	145
	258+00 - 261+66	LT	2012	---
	257+80 - 258+21	MEDIAN	204	---
	258+01 - 259+76	MEDIAN	873	---
	261+90 - 261+96	LT	30	---
	261+92 - 263+51	MEDIAN	793	---
	263+31 - 263+70	MEDIAN	193	---
	263+54 - 263+72	LT	102	---
	264+06 - 264+21	MEDIAN	84	---
	264+57 - 269+83	LT	2634	---
	264+65 - 264+70	MEDIAN	107	---
	270+07 - 272+45	LT	1204	---
	270+26 - 270+31	MEDIAN	83	---
	272+97 - 274+30	MEDIAN	664	---
	274+10 - 274+52	MEDIAN	212	---
	274+33 - 274+58	LT	244	---
	275+29 - 275+34	MEDIAN	91	---
	275+03 - 275+39	LT	389	---
	SUBTOTAL (0010)		34,863	3,096
0050	140+00 - 140+85	LT	425	---
	141+25 - 146+91	LT	2,864	---
	144+56 - 145+73	RT	585	---
	146+08 - 150+83	RT	2,375	---
	147+31 - 152+32	LT	2,537	---
	152+32 - 152+55	LT	---	200
	151+18 - 152+53	RT	889	---
	153+59 - 155+75	LT	1,300	---
	153+40 - 153+63	RT	---	128
	153+40 - 160+45	RT	3,425	---
	156+03 - 157+51	LT	740	---
	157+90 - 158+57	LT	335	---
	158+72 - 160+53	LT	905	---
	160+87 - 161+96	LT	584	---
	160+84 - 164+32	RT	1,779	---
	162+30 - 164+46	LT	1,080	---
	164+71 - 167+57	RT	1,469	---
	164+74 - 166+15	LT	705	---
	166+33 - 167+54	LT	658	---
	167+92 - 170+17	RT	1,125	---
	170+56 - 173+98	RT	1,920	---
	173+81 - 173+93	LT	182	---
	174+28 - 175+60	RT	699	---
	174+29 - 176+55	LT	1,487	---
	175+94 - 177+06	RT	560	---
	176+79 - 177+21	LT	210	---
	177+46 - 178+68	RT	767	---
	177+51 - 178+61	LT	550	---
	179+95 - 180+05	RT	---	74
	180+05 - 181+23	RT	587	---
	180+43 - 181+07	LT	320	---
	181+37 - 181+53	LT	80	---
	181+62 - 182+53	RT	455	---
	181+81 - 183+57	LT	880	---
	182+93 - 183+70	RT	385	---
	183+85 - 183+98	LT	65	---
	184+10- 186+08	RT	1,255	---
	184+22 - 185+87	LT	825	---
	185+87 - 186+07	LT	---	120
	186+48 - 191+59	RT	2,612	---
	186+60 - 186+80	LT	---	155
	186+60 - 192+39	LT	3,013	---
	193+39 - 202+50	RT	4,575	---
	194+09 - 202+49	LT	4,200	---
	202+89 - 205+48	RT	1,281	---
	205+48 - 205+55	RT	---	49
	202+93 - 205+47	LT	1,270	---
	205+47 - 205+53	LT	---	30
	206+48 - 206+89	LT	419	---
	209+49 - 209+71	RT	110	---
	209+88 - 210+66	RT	390	---
	210+87 - 211+53	RT	330	---

CONT. ABOVE

CONCRETE SIDEWALK (CONT.)

CATEGORY	STATION-STATION	OFFSET	602.0410 5-INCH SF	602.0420 7-INCH SF
0050	211+80 - 212+71	RT	476	---
	213+22 - 213+39	RT	88	---
	232+99 'NW' - 247 +00 'NW'	LT	6,505	---
	247+01 - 249+74	LT	1,358	---
	251+52 - 256+80	RT	2,679	---
	251+06 - 255+68	LT	2,555	---
	256+07 - 256+75	LT	332	---
	256+75 - 256+97	LT	---	240
	261+61 - 275+34	RT	7,034	---
	SUBTOTAL (0050)		74,234	996
	TOTAL		109,097	4,092

CONCRETE SIDEWALK 6-INCH

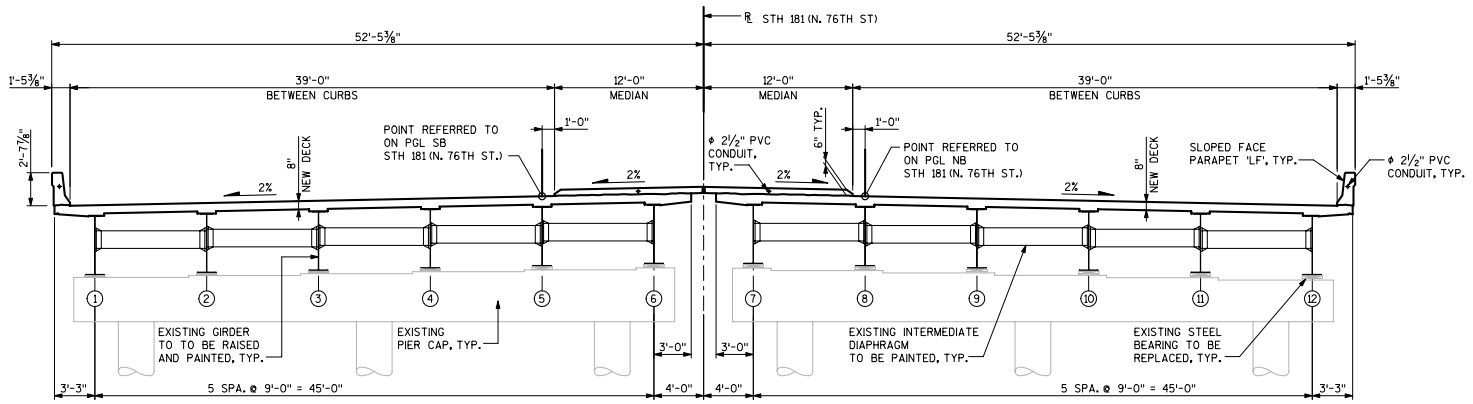
CATEGORY	STATION-STATION	OFFSET	602.0415 SF
0010	261+66 - 261+90	LT	120
	269+83 - 270+07	LT	120
	272+45 - 272+70	LT	125
	276+53 - 276+84	LT	155
	10+96 'B' - 11+26 'B'	RT	150
	10+91 'D' - 11+10 'D'	RT	95
	SUBTOTAL (0010)		765
0050	140+85 - 141+25	LT	200
	143+86 - 144+56	RT	350
	145+73 - 146+08	RT	175
	146+91 - 147+31	LT	200
	150+83 - 151+18	RT	175
	155+75 - 156+03	LT	140
	157+51 - 157+90	LT	195
	158+57 - 158+72	LT	75
	160+53 - 160+87	LT	170
	160+45 - 160+84	RT	195
	161+96 - 162+30	LT	170
	164+32 - 164+71	RT	195
	164+46 - 164+74	LT	140
	166+15 - 166+33	LT	90
	167+57 - 167+92	RT	175
	170+17 - 170+56	RT	195
	173+98 - 174+28	RT	150
	175+60 - 175+94	RT	170
	177+06 - 177+46	RT	200
	176+55 - 176+79	LT	120
	177+21 - 177+51	LT	150
	180+10 - 180+43	LT	165
	181+07 - 181+37	LT	150
	181+53 - 181+81	LT	140
	181+23 - 181+62	RT	195
	182+53 - 182+93	RT	200
	183+57 - 183+85	LT	140
	183+70 - 184+10	RT	200
	183+98 - 184+22	LT	120
	186+08 - 186+48	RT	200
	202+49 - 202+93	LT	220
	202+50 - 202+89	RT	195
	209+17 - 209+49	RT	160
	209+71 - 209+88	RT	85
	210+66 - 210+87	RT	105
	211+53 - 211+80	RT	135
	255+68 - 256+07	LT	195
	SUBTOTAL (0050)		6,235
	TOTAL		7,000

ADD #1
REV SHT 592
12/5/2007

PROJECT NO: 2140-08-73	HWY: STH 181	COUNTY: MILWAUKEE	MISCELLANEOUS QUANTITIES	SHEET	E

FILE NAME : $$....designfile....$$ PLOT DATE : $$...plottingdate...$$ PLOT BY : $$...plotuser...$$ PLOT NAME : PLOT SCALE : $$.....plotscale.....$$ WISDOT/CADDS SHEET 43

STATE PROJECT NUMBER
2140-08-73



SOUTH BOUND

TYPICAL SECTION

(LOOKING NORTH)

NOTE: ALL HORIZONTAL DIMENSIONS SHOWN ARE TAKEN NORMAL TO ℄ N. 76TH ST.

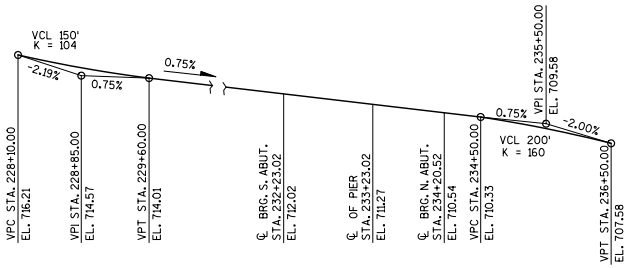
NORTH BOUND

TOTAL ESTIMATE OF QUANTITIES

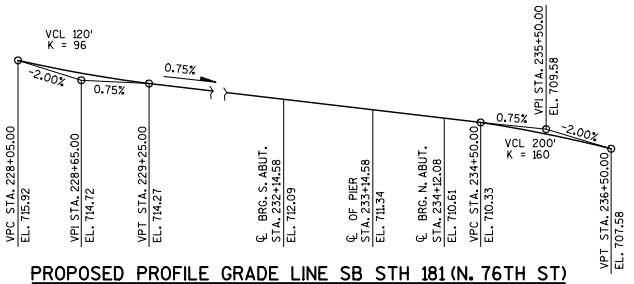
BID ITEMS	UNIT	SOUTH ABUT.	NORTH ABUT.	PIER	SUPER.	TOTAL
REMOVING OLD STRUCTURE B-40-404 STA. 233+18.80	LS	-	-	-	-	1
REMOVING CONCRETE SLOPE PAVING *	SY	21	3	-	-	24
BACKFILL STRUCTURE	CY	19	19	-	-	38
CONCRETE MASONRY BRIDGES	CY	17	17	-	666	700
COMPRESSION JOINT SEALER PREFORMED ELASTOMERIC (3-INCH)	LF	-	-	-	199	199
EXPANSION DEVICE STRUCTURE B-40-404	LS	-	-	-	-	1
PROTECTIVE SURFACE TREATMENT	SY	16	16	-	2,415	2,447
MASONRY ANCHORS TYPE L NO.5 BARS	EACH	394	394	-	-	788
BAR STEEL REINFORCEMENT HS COATED BRIDGES	LB	3,100	3,100	-	174,830	181,030
BEARING PADS ELASTOMERIC LAMINATED	EACH	12	12	-	-	24
WELDED STUD SHEAR CONNECTORS 7/8x5-INCH	EACH	-	-	-	612	612
BEARING ASSEMBLIES FIXED STRUCTURE B-40-404	EACH	-	-	12	-	12
CONCRETE SURFACE REPAIR *	SF	155	100	45	-	300
RUBBERIZED MEMBRANE WATERPROOFING	SY	25	25	-	-	50
SLOPE PAVING CONCRETE	SY	21	3	-	-	24
CONDUIT RIGID METALLIC 2 1/2-INCH	LF	60	60	-	20	140
CONDUIT RIGID NONMETALLIC SCHEDULE 40 1 1/2-INCH	LF	-	-	-	5	5
CONDUIT RIGID NONMETALLIC SCHEDULE 40 2 1/2-INCH	LF	-	-	-	780	780
JUNCTION BOXES 18x12x6-INCH	EACH	-	-	-	-	2
ANCHOR ASSEMBLIES FOR STEEL PLATE BEAM GUARD	EACH	-	-	-	-	4
REMOVING BEARINGS STRUCTURE B-40-404	EACH	12	12	12	-	36
PREPARATION AND COATING OF TOP FLANGES	LS	-	-	-	-	1
STRUCTURE REPAINTING RECYCLED ABRASIVE STRUCTURE B-40-404	LS	-	-	-	-	1
NEGATIVE PRESSURE CONTAINMENT AND COLLECTION OF WASTE MATERIALS, STRUCTURE B-40-404	LS	-	-	-	-	1
PORTABLE DECONTAMINATION FACILITY	LS	-	-	-	-	1
ANCHOR ASSEMBLIES LIGHT POLES	EACH	-	-	-	2	2
EPOXY CRACK SEALING *	LF	75	65	2	-	142
NON-BID ITEMS						
NAME PLATE						
PREFORMED JOINT FILLER						

* EXACT QUANTITIES OF ITEMS "CONCRETE SURFACE REPAIR", AND "REMOVING CONCRETE SLOPE PAVING" TO BE MEASURED/ VERIFIED IN THE FIELD AND APPROVED BY THE ENGINEER.

ADD #2, REV SHT 849
1/2/2008



PROPOSED PROFILE GRADE LINE NB STH 181 (N. 76TH ST)



PROPOSED PROFILE GRADE LINE SB STH 181 (N. 76TH ST)

LIST OF DRAWINGS

1. GENERAL PLAN AND ELEVATION
2. TYPICAL SECTION, QUANTITIES AND DESIGN DATA
3. SOUTH ABUTMENT
4. SOUTH ABUTMENT DETAILS
5. NORTH ABUTMENT
6. NORTH ABUTMENT DETAILS
7. SUPERSTRUCTURE (1 OF 2)
8. SUPERSTRUCTURE (2 OF 2)
9. SUPERSTRUCTURE DETAILS
10. DECK ELEVATIONS & SUPERSTRUCTURE DEFLECTIONS
11. PARAPET TYPE "LF"
12. EXPANSION JOINT DETAILS (1 OF 2)
13. EXPANSION JOINT DETAILS (2 OF 2)
14. BEARING DETAILS AT PIER
15. BEARING DETAILS AT ABUTMENTS
16. CONDUIT DETAILS
17. LIGHTING DETAILS
18. SLOPE PAVING REPAIRS
19. SOUTH ABUTMENT SURFACE REPAIR DETAILS
20. NORTH ABUTMENT SURFACE REPAIR DETAILS
21. PIER SURFACE REPAIR DETAILS

BRIDGE WORK NOTES

THE EXISTING DECK, SIDEWALKS, PARAPETS, RAILINGS, MEDIANS AND BEARINGS WILL BE REMOVED AND REPLACED IN THIS CONTRACT.

THE EXISTING GIRDERS AND SECONDARY MEMBERS WILL REMAIN AND BE RAISED TO PROVIDE ADEQUATE VERTICAL CLEARANCE OVER WEST BROWN DEER ROAD.

ABUTMENT BACKWALLS AND ALL WINGWALLS WILL BE RECONSTRUCTED ABOVE PAVING NOTCH.

THE CONTRACTOR SHALL SUBMIT A REMOVAL PLAN TO THE ENGINEER FOR APPROVAL. THE REMOVAL PROCEDURE SHALL PREVENT DAMAGE TO THE UNDERPASSING ROADWAY. TRAFFIC CONTROL DURING THE DECK REMOVAL SHALL BE APPROVED BY THE ENGINEER.

PLANS OF THE EXISTING BRIDGE ARE ON FILE AND ARE AVAILABLE FOR INSPECTION AT THE WISCONSIN DEPARTMENT OF TRANSPORTATION, SOUTHEAST REGION, 141 NW BARSTOW ST WAUKESHA, WI 53187-0789.

DESIGN DATA

DESIGN SPECIFICATIONS - AASHTO 2002
DESIGN LIVE LOAD - HS 20
INVENTORY RATING - HS 19.8
OPERATING RATING - HS 33
FATIGUE RATING - HS 18
MAX STANDARD PERMIT VEHICLE LOAD - 250 KIPS

ULTIMATE DESIGN STRESSES:

CONCRETE DECK.....f'c=4,000 psi
ALL OTHERS.....f'c=3,500 psi

HIGH STRENGTH ALLOY STRUCTURAL STEEL
ASTM A709 GRADE 36.....fy=36,000 psi

HIGH STRENGTH BAR STEEL
REINFORCEMENT (GRADE 60).....fy=60,000 psi

TRAFFIC DATA

N. 76TH ST. NB, SB : ADT (2001) = 21,700
ADT (2017) = 23,000
DESIGN SPEED = 40 MPH

8

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
STRUCTURES DESIGN SECTION

STRUCTURE B-40-404

CONST. SPEC.	2006	DRAWN BY	TB	PLANS CK'D.	YB

TYPICAL SECTION, QUANTITIES AND DESIGN DATA

SHEET 2 OF 21