GRE

JUNE 2017

PROJECT ID: 1517-75-72

COUNTY: WINNEBAGO

ORDER OF SHEETS

Section No.	1	Title
Section No.	2	Typical Sections and Details
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

TOTAL SHEETS = 744

N

DESIGN DESIGNATION			STH 441/ USH 10	CTH AP W OF RAMP	CTH AP E OF RAMP	RACINE RD S OF AP	RACINE RD N OF AP
A.A.D.T.	2020	=	55,300	4,900	8,900	6,500	5,600
A.A.D.T.	2038	=	73,100	5,800	10,900	7,100	7,000
D.H.V.	2038	=	7,890	1,020	1,470	1,140	1,130
D.D.		=	57%	59%	59%	59%	59%
T.		=	8.8%	4.2%	3.7%	3.8%	4.1%
DESIGN SPEED		=	70 MPH	40 MPH	40 MPH	40 MPH	40 MPH
ESALS		=	9,665,000	676,000	1,076,000	813,000	809,000

CONVENTIONAL SYMBOLS

PLAN

- CORPORATE LIMITS
- PROPERTY LINE
- LOT LINE
- LIMITED HIGHWAY EASEMENT
- EXISTING RIGHT OF WAY
- PROPOSED OR NEW R/W LINE
- SLOPE INTERCEPT
- REFERENCE LINE
- EXISTING CULVERT
- PROPOSED CULVERT (Box or Pipe)
- COMBUSTIBLE FLUIDS (CAUTION)
- MARSH AREA
- WOODED OR SHRUB AREA

PROFILE

- GRADE LINE
- ORIGINAL GROUND
- MARSH OR ROCK PROFILE (To be noted as such) (ROCK)
- SPECIAL DITCH (LABEL)
- GRADE ELEVATION (95.36)
- CULVERT (Profile View)

UTILITIES

- COMMUNICATION OVERHEAD (OH)
- COMMUNICATION UNDERGROUND (C)
- ELECTRIC OVERHEAD (OH)
- ELECTRIC UNDERGROUND (E)
- FIBER OPTIC (FO)
- GAS (G)
- SANITARY SEWER (SAN)
- STORM SEWER (SS)
- WATER (W)
- UTILITY PEDESTAL
- POWER POLE
- TELEPHONE POLE

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

PLAN OF PROPOSED IMPROVEMENT

STATE PROJECT	FEDERAL PROJECT	
	PROJECT	CONTRACT
1517-75-72	WISC 2017345	1

USH 10 - USH 10/STH 441

COUNTY CB - ONEIDA STREET

USH 10

WINNEBAGO COUNTY

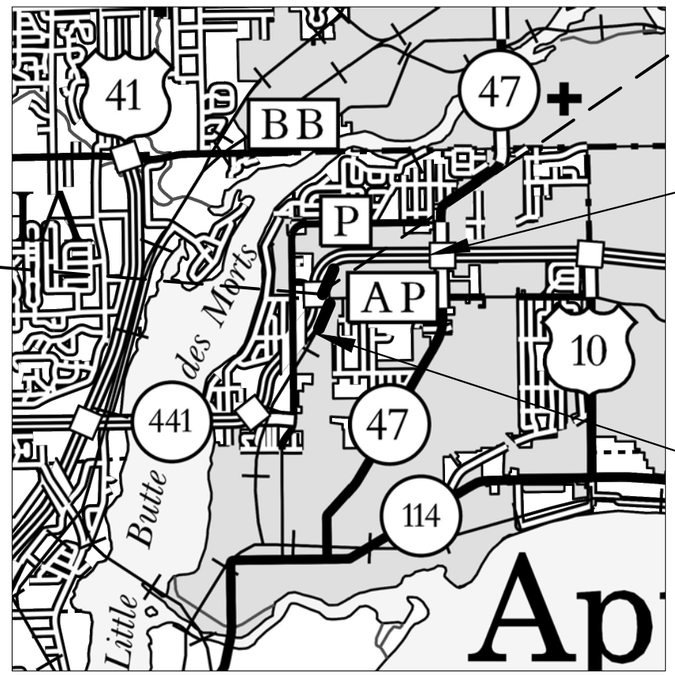
MIDWAY INTERCHANGE MAINLINE

STATE PROJECT NUMBER
1517-75-72

R-17-E

WALLS
R-70-142
R-70-150
R-70-151
N-70-132

T-20-N



BRIDGES
B-70-423
B-70-424

END PROJECT 1517-75-72
STA 288EB+33.56
Y=552041.837
X=822836.489

BEGIN PROJECT 1517-75-72
STA 223EB+00.00
Y=549097.307
X=817828.287

LAYOUT
SCALE 0 — 1 MI

TOTAL NET LENGTH OF CENTERLINE = 1.237

COORDINATES ON THIS PLAN ARE REFERENCED TO THE WISCONSIN COUNTY COORDINATE SYSTEM (WCCS). WINNEBAGO COUNTY NAD83 (1991).

ELEVATIONS SHOWN ON THIS PLAN ARE REFERENCED TO THE NATIONAL GEODETIC VERTICAL DATUM OF 1929, NGVD 29.

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

PREPARED BY

Surveyor	KAPUR
Designer	N. XIONG
Project Manager	K. SLATTERY
Regional Examiner	
Regional Supervisor	C. DEGRAVE

APPROVED FOR THE DEPARTMENT

DATE: 2-13-2017 Kathleen R Slattery (Signature)

E

FILE NAME : S:\PDS\C3D\WIS441\15177570_72_77_85\SHEETSPLAN\1517-75-72\010100-TI\NE-15177572-010102-TI.DWG
LAYOUT NAME - NE-15177572-010102-TI - TITLE SHEET 1 IN EQ 1 MI

PLOT DATE : 2/8/2017 7:53 AM PLOT BY : MARTENS, JOHN M PLOT NAME :

WISDOT/CADDS SHEET 10

2

TO OBTAIN LOCATIONS OF
PARTICIPANTS UNDERGROUND
FACILITIES BEFORE YOU
DIG IN WISCONSIN

WIS. STATUTE 182.0175 (1974)
REQUIRES MIN. OF 3 WORK DAYS
NOTICE BEFORE YOU EXCAVATE

DIGGERS HOTLINE

Dial 811 or (800)242-8511

www.DiggersHotline.com

UTILITY CONTACTS

AMERICAN TRANSMISSION COMPANY LLC - ELECTRIC TRANMISSION

MIKE OLSEN
801 O'KEEFE ROAD
PO BOX 6113
DEPERE, WI 54115-6113
920-338-6582; CELL: 920-660-2390
MOlsen@atcllc.com

ATT TCG

DON DIETSCH
C/O NORTHWIND TECHNICAL SERVICES LLC
383 WILLIAMSTOWNE STE B
DELAFIELD, WI 53018
262-646-5602; FAX: 262-646-5603
CELL: 414-651-2862
d.dietsch@northwindtech.com

AT&T WISCONSIN

GARY LAABS
221 WEST WASHINGTON ST. 4TH FL.
APPLETON, WI 54911
920-735-3063
GL1784@att.com

MENASHA - UTILITIES

GREG SHULL
321 MILWAUKEE STREET
PO BOX 340
MENASHA, WI 54952-0340
920-967-3422
GShull@wppiEnergy.org

TOWN OF MENASHA - ELECTRIC

RANDY GALLOW
STREET DEPARTMENT
2000 MUNICIPAL DRIVE
NEENAH, WI 54956
920-720-7110

TOWN OF MENASHA - SANITARY SEWER

MARK SCHMITT
UTILITY DISTRICT
2340 AMERICAN DRIVE
NEENAH, WI 54956
920-720-710; CELL: 920-419-3874
Mschmitt@Town-Menasha.com

TOWN OF MENASHA - WATER

JEFF ROTH
UTILITY DISTRICT
2340 AMERICAN DRIVE
NEENAH, WI 54956
920-720-7175; CELL: 920-419-3866
JeffR@Town-Menasha.com

TDS METROCOM

STEVE JAKUBIEC
10 COLLEGE AVE STE 218A
APPLETON, WI 54911
920-882-4166; CELL: 920-562-7221
steve.jakubiec@tdstelecom.com

CHARTER - COMMUNICATION

VINCE ALBIN
3520 E DESTINATION DRIVE
APPLETON, WI 54915
920-831-9249
vince.albin@charter.com

WE ENERGIES - ELECTRIC & GAS

LATROY BRUMFIELD
333 W EVERETT STREET
ROOM A299
MILWAUKEE, WI 53203
414-221-5617; CELL: 414-975-9053
latroy.brumfield@we-energies.com

WE ENERGIES - ELECTRIC

CHRIS SCHULZ
500 S 116 ST
WEST ALLIS, WI 53214
414-944-5553; CELL: 414-550-8289
chris.schulz@we-energies.com

WE ENERGIES - GAS

LISA MAYNE
1921 8 STREET SOUTH
WISCONSIN RAPIDS, WI 54494
715-421-7227
lisa.mayne@we-energies.com

WISCONSIN CENTRAL LTD CONTACTS

RAILROAD FLAGGING CONTACT

MARY ELLEN CARMODY
2800 LIVERNOIS ROAD, STE 330
TROY, MI 48083
OFFICE: 248-740-6227
FAX: 248-740-6036
maryellen.carmody@cn.ca

MAIN RAILROAD CONTACT

JACKIE MACEWICZ
MANAGER PUBLIC WORKS
1625 DEPOT STREET
STEVENS POINT, WI 54481
OFFICE: 715-345-2503
FAX: 715-345-2507
JACKIE.MACEWICZ@cn.ca

24 HOUR EMERGENCY RAILROAD SIGNAL

1-800-616-3432

CALL BEFORE YOU DIG

WISCONSIN CENTRAL LTD IS NOT PART OF DIGGER HOTLINE
CALL CHRISTINE GRZESIAK, 715-345-2506
WHEN DIGGING ON RAILROAD R/W

COUNTY SURVEYOR CONTACT

JERRY BOUGIE
WINNEBAGO COUNTY COURT HOUSE
445 ALGOMA BLVD
OSHKOSH, WI 54903
920-236-4839

DNR AREA LIASON

JAY SCHIEFELBEIN
DEPARTMENT OF NATURAL RESOURCES
2984 SHAWANO AVENUE
GREEN BAY, WI 54313
920-360-3784; CELL: 920-662-5472
jeremiah.schiefelbein@wisconsin.gov

US ARMY CORP OF ENGINEERS

NICK DOMER
OLD FORT SQUARE
211 N. BROADWAY, STE 221
GREEN BAY, WI 54303
651-290-5855
T.Dormer@usace.army.mil

WINNEBAGO COUNTY HIGHWAY COMMISSIONER

RAY PALONEN
901 WEST COUNTY ROAD Y
P.O. BOX 2764
OSHKOSH, WI 54903
920-232-1700

EMERGENCY CONTACT NUMBERS FOR WE ENERGIES

ELECTRIC 24 HOUR EMERGENCY SERVICE: 1-800-662-4797
GAS 24 HOUR EMERGENCY SERVICE: 1-800-261-5325

2

ORDER OF PLAN SHEETS

TITLE SHEET
UTILITIES
GENERAL NOTES
ABBREVIATIONS
PROJECT OVERVIEW
TYPICAL SECTIONS
CONSTRUCTION DETAILS
REMOVAL PLAN
PLAN DETAILS
WICK DRAINS
PAVEMENT GRADES
DISTURBED WETLANDS
INVASIVE SPECIES
EROSION CONTROL
STORM SEWER PLAN
POND DETAIL
PERMANENT SIGNING
ITS
LIGHTING PLAN
PAVEMENT MARKING
STAGE CONSTRUCTION
TRAFFIC SIGNAL REMOVAL
TRAFFIC SIGNAL TEMPORARY
TRAFFIC SIGNAL PLAN
TRAFFIC SIGNAL PHASING
TRAFFIC CONTROL
DETOURS
FENCING
ALIGNMENT DETAIL
ESTIMATE OF QUANTITIES
MISCELLANEOUS QUANTITIES
RIGHT-OF-WAY PLAT
BENCHMARKS
PLAN & PROFILE
SPECIAL SIGN DETAILS
EARTHWORK QUANTITIES
CROSS SECTIONS

FILE NAME : S:\PDS\C3D\WIS441\15177570_72_77_85\SHEETSPLAN\1517-75-72\020100-GN\NE-15177572-020101-GN.DWG
020101_gn - 01
PLOT DATE : 2/9/2017 10:56 AM PLOT BY : MARTENS, JOHN M PLOT NAME : PLOT SCALE : 1 IN:10 FT
WISDOT/CADDS SHEET 42

GENERAL NOTES

THE CONTRACTOR SHALL CONTACT THE UTILITIES AND DIGGERS HOTLINE TO LOCATE AND FIELD VERIFY UTILITIES. 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.

THE CONTRACTOR SHALL NOTIFY DIGGERS HOTLINE AND AFFECTED UTILITIES PRIOR TO THE START OF WORK. ANY LOCAL MUNICIPAL UTILITY WHICH IS NOT A MEMBER OF THE DIGGERS HOTLINE MUST BE CONTACTED SEPARATELY.

EXISTING SURFACE ELEVATIONS USED TO CALCULATE PROPOSED EARTHWORK QUANTITIES ARE BASED UPON PREVIOUS CONSTRUCTION DTM'S. FIELD CHANGES TO THESE PROPOSED DTM'S WILL NOT BE REFLECTED IN THE EXISTING DTM FOR THIS CONTRACT.

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

RIGHT OF WAY LINES SHOWN ON CROSS SECTIONS ARE APPROXIMATE.

THE CONTRACTOR SHALL BE RESPONSIBLE FOR RESHAPING AND SEEDING ANY PREVIOUSLY GRASSED AREAS WHICH ARE DISTURBED BY ANY OPERATION OUTSIDE OF THE DESIGNATED CONSTRUCTION LIMITS AT THE CONTRACTORS EXPENSE.

PLACE ALL SALVAGED TOPSOIL IN ALL GRASSED AREAS DESIGNATED BY THE ENGINEER IMMEDIATELY AFTER GRADING HAS BEEN COMPLETED. SEED, MULCH AND FERTILIZE OR SOD AND FERTILIZE ALL AREAS 5 DAYS AFTER PLACEMENT OF SALVAGED TOPSOIL.

TEMPORARY STORAGE OF ANY EXCAVATED MATERIAL WILL NOT BE PERMITTED IN WETLANDS, FLOODWAY OR FLOODPLAIN OF ANY WATERWAY.

CROSS SECTIONS SHOWN INCLUDE THE THICKNESS OF TOPSOIL WHERE REQUIRED. TOPSOIL SHALL BE REPLACED WITH SPECIFIED THICKNESS AS OUTLINED IN THE STANDARD SPECIFICATIONS AND SPECIAL PROVISIONS.

FILL AND COMPACT ALL HOLES OR OPENINGS BELOW SUBGRADE RESULTING FROM ABANDONMENT OR REMOVAL OF EXISTING STRUCTURES WITH GRANULAR BACKFILL. BACKFILLING IS INCIDENTAL TO CORRESPONDING ABANDONMENT OR REMOVAL ITEM.

SAWCUT ASPHALTIC AND CONCRETE DRIVEWAYS AND/OR PARKING LOTS AT THE MATCHLINE AS SHOWN ON THE PAVING DETAILS OR AS DIRECTED BY THE ENGINEER.

FERTILIZER SHALL NOT BE USED NEAR NAVIGABLE WATERWAYS OR WETLANDS.

BROKEN CONCRETE CONTAINING STEEL SHALL NOT BE USED AS RIPRAP OR HEAVY RIPRAP.

THE EROSION CONTROL FEATURES AS SHOWN ON THE PLANS ARE AT SUGGESTED LOCATIONS. EXACT LOCATION WILL BE DETERMINED BY THE ENGINEER.

REMOVAL OF EROSION CONTROL DEVICES IS INCIDENTAL TO THE COST OF THEIR RESPECTIVE BID ITEMS.

EROSION CONTROL DEVICES SHALL BE PLACED IN SEQUENCE WITH CONSTRUCTION OPERATIONS OR AS DETERMINED BY THE ENGINEER.

ANY MESH MATERIAL THAT IS FOUND IN EXISTING PAVEMENT WILL BE INCIDENTAL TO THE REMOVAL OF THE PAVEMENT IN THAT SECTION. EXISTING PAVEMENT DEPTHS ARE BASED ON AS-BUILT DATA AND MAY VARY IN THE FIELD.

PRIOR TO ORDERING DRAINAGE PIPES AND STRUCTURES, THE CONTRACTOR SHALL VERIFY RELATED DRAINAGE INFORMATION IN THE PLAN AND PROVIDE DOCUMENTATION TO THE ENGINEER IN ACCORDANCE WITH THE SPECIFICATIONS. THIS ALSO INCLUDES VERIFICATION OF INVERT ELEVATIONS AT ALL PROPOSED STORM SEWER CONNECTION POINTS TO EXISTING SYSTEMS.

TRAFFIC CONTROL DEVICES SHALL BE ADJUSTED TO FIELD CONDITIONS AS DIRECTED BY THE ENGINEER.

SIGNS IN CONFLICT WITH TRAFFIC CONTROL "IN USE" SHALL BE COVERED AS DIRECTED BY THE ENGINEER AND PAID FOR UNDER THE ITEM "TRAFFIC CONTROL COVERING SIGNS TYPE 1 OR TYPE 2".

STATIONING, DISTANCES AND OFFSETS FOR SIGNS SHOWN IN THE PLANS ARE APPROXIMATE AND THE FINAL LOCATIONS ARE TO BE DETERMINED BY THE ENGINEER.

BENCHMARK LOCATIONS SHOWN ON PLAN ARE APPROXIMATE AND SHOULD BE VERIFIED.

ALL ITEMS ASSOCIATED WITH SIGNING REMOVALS ARE SHOWN ON SIGNING PLAN, EXCEPT FOR REMOVING OLD SIGN STRUCTURES.

REMOVAL PLAN DOES NOT INCLUDE REMOVAL OF TEMPORARY PAVEMENT, SEE TRAFFIC CONTROL PLAN.

EXCAVATION REQUIRED FOR ALL SIGN STRUCTURES, BRIDGES, AND RETAINING WALLS IS NOT INCLUDED IN THE COMPUTER EARTHWORK AND IS INCIDENTAL TO THE PERTINENT STRUCTURE ITEMS. SEE STRUCTURE PLANS FOR ADDITIONAL GUIDANCE ON REQUIRED EXCAVATION LIMITS.

VERIFY PROPOSED BEAMGUARD AND THRIE BEAM POST SPACING PRIOR TO SIGN STRUCTURE AND DRAINAGE STRUCTURE PLACEMENT.

A SAWED JOINT IS REQUIRED WHERE NEW HMA PAVEMENT MEETS EXISTING HMA PAVEMENT.

PROTECT INLETS WITH PROPER INLET PROTECTION AT LOCATIONS EXHIBITING RISK OF BEING IMPACTED BY CONSTRUCTION OPERATIONS AS SHOWN ON THE PLANS, OR AS DIRECTED BY THE ENGINEER.

ALIGNMENT IDENTIFIERS	
EB	STH 441 NB/ USH 10 EB
WB	STH 441 SB/USH 10 WB
MNE	MIDWAY ROAD NE RAMP
ASW	APPLETON ROAD SW RAMP
EMEB	EXISTING MIDWAY ROAD EB
EMWB	EXISTING MIDWAY ROAD WB
EBT	TEMPORARY STH 441 NB/USH 10 EB
WBT	TEMPORARY STH 441 SB/USH 10 WB

ABBREVIATIONS

AEW	APRON END WALL
AGG	AGGREGATE
BAD	BASE AGGREGATE DENSE
BM	BENCH MARK
C&G	CURB AND GUTTER
C/L	CENTER OR CONSTRUCTION LINE
CMCP	CORRUGATED METAL CULVERT PIPE
CONC	CONCRETE
CP	CULVERT PIPE
CPRC	CULVERT PIPE REINFORCED CONCRETE
CSD	CONCRETE SURFACE DRAIN
CY	CUBIC YARD
D	DEGREE OF CURVE
Δ	DELTA
DISCH	DISCHARGE
EB	EAST BOUND
EL OR ELEV	ELEVATION
EAT	ENERGY ABSORBING TERMINAL
EXIST	EXISTING
FE	FIELD ENTRANCE
FT	FOOT
HMA	HOT MIX ASPHALT
INL	INLET
INV	INVERT
L	LENGTH OF CURVE
LHF	LEFT HAND FORWARD
LT	LEFT
LF	LINEAR FOOT
MIN	MINIMUM
MH	MANHOLE
M/L	MATCHLINE
NB	NORTHBOUND
NC	NORMAL CROWN
PAVT	PAVEMENT
PC	POINT OF CURVE
PCC	POINT OF COMPOUND CURVE
PE	PRIVATE ENTRANCE
PI	POINT OF INTERSECTION
PLE	PERMANENT LIMITED EASEMENT
PT	POINT OF TANGENT
R	RADIUS OF CURVE
R/L	REFERENCE LINE
RC	REVERSE CROWN
RCAEW	REINFORCED CONCRETE APRON ENDWALL FOR CULVERT PIPE
REQ'D	REQUIRED
RHF	RIGHT HAND FORWARD
RO	RUN OFF LENGTH
RRSP	RAIL ROAD SPIKE
RT	RIGHT
RW OR R/W	RIGHT OF WAY
SALV	SALVAGED
SAPBC	SALVAGED ASPHALTIC PAVEMENT BASE COURSE
SB	SOUTHBOUND
SDD	STANDARD DETAIL DRAWING
SE	SUPER ELEVATION
SF	SQUARE FOOT
SSPRC	STORM SEWER PIPE REINFORCED CONCRETE
STA	STATION
SY	SQUARE YARD
T	TANGENT LENGTH
TEMP	TEMPORARY
TLE	TEMPORARY LIMITED EASEMENT
TYP	TYPICAL
VCL	VERTICAL CURVE LENGTH
VPC	POINT OF VERTICAL CURVE
VPI	POINT OF VERTICAL INTERSECTION
VPT	POINT OF VERTICAL TANGENT
WB	WESTBOUND
YD	YARD

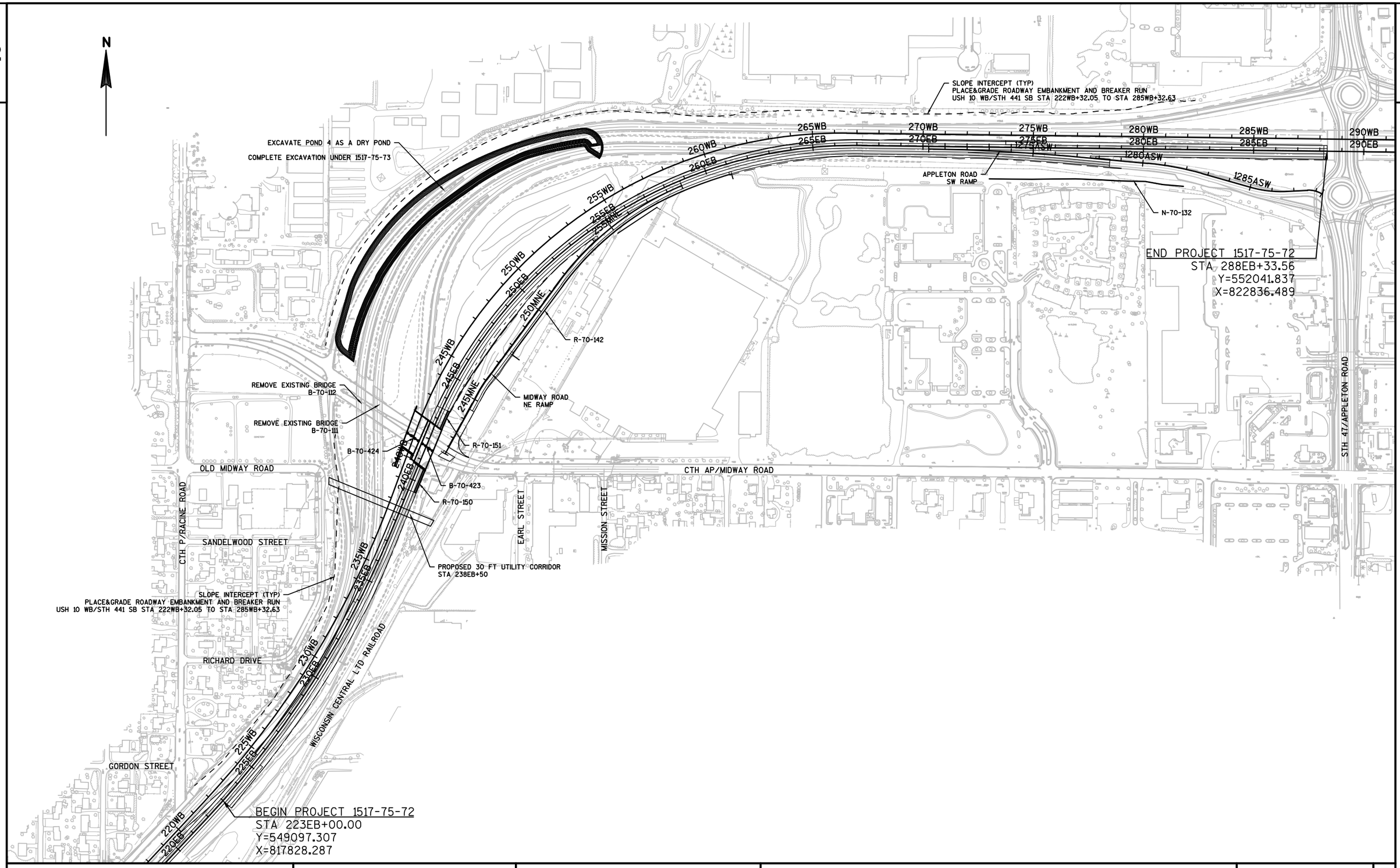
2

RUNOFF COEFFICENT TABLE

	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	0.08	0.16	0.22	0.12	0.20	0.27	0.15	0.24	0.33	0.19	0.28	0.38
	0.22	0.30	0.38	0.26	0.34	0.44	0.30	0.37	0.50	0.34	0.41	0.56
MEDIAN STRIP TURF	0.19	0.20	0.24	0.19	0.22	0.26	0.20	0.23	0.30	0.20	0.25	0.30
	0.24	0.26	0.30	0.25	0.28	0.33	0.26	0.30	0.37	0.27	0.32	0.40
SIDE STRIP TURF			0.25			0.27			0.28			0.30
			0.32			0.34			0.36			0.38
PAVEMENT:												
ASPHALT	.70 - .95											
CONCRETE	.80 - .95											
BRICK	.70 - .80											
DRIVES, WALKS	.75 - .85											
ROOFS	.75 - .95											
GRAVEL ROADS, SHOULDERS	.40 - .60											

1517-75-77

TOTAL PROJECT AREA = XXX
TOTAL AREA EXPECTED TO BE DISTURBED BY CONSTRUCTION ACTIVITIES = XXX



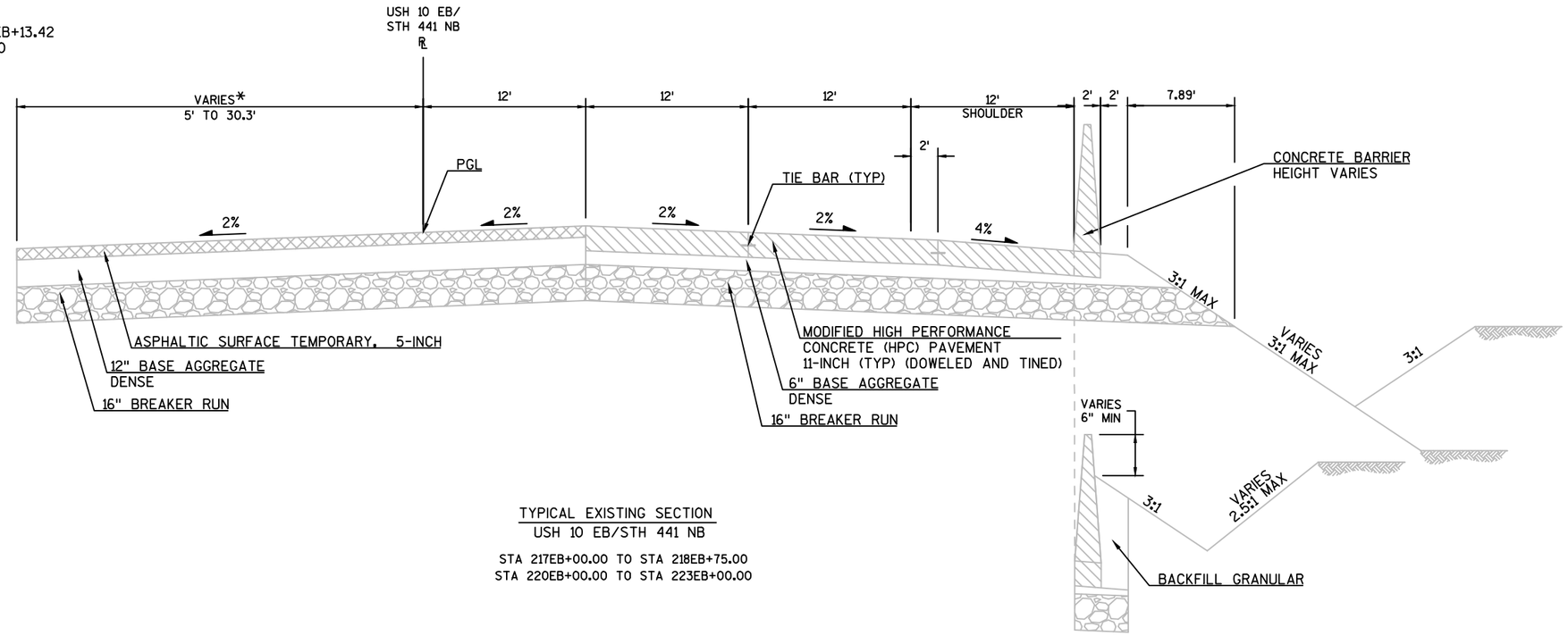
PROJECT NO: 1517-75-72	HWY: STH 441/USH 10	COUNTY: WINNEBAGO	PROJECT OVERVIEW	SHEET 6	E

FILE NAME : S:\PDS\C3D\WIS441\15177570_72_77_85\SHEETSPLAN\1517-75-72\020200-PO\NE-15177572-020201-PO.DWG
LAYOUT NAME - 020201-PO

PLOT DATE : 2/13/2017 6:39 AM PLOT BY : MARTENS, JOHN M PLOT NAME : PLOT SCALE : 1 IN:400 FT

WISDOT/CADDS SHEET 42

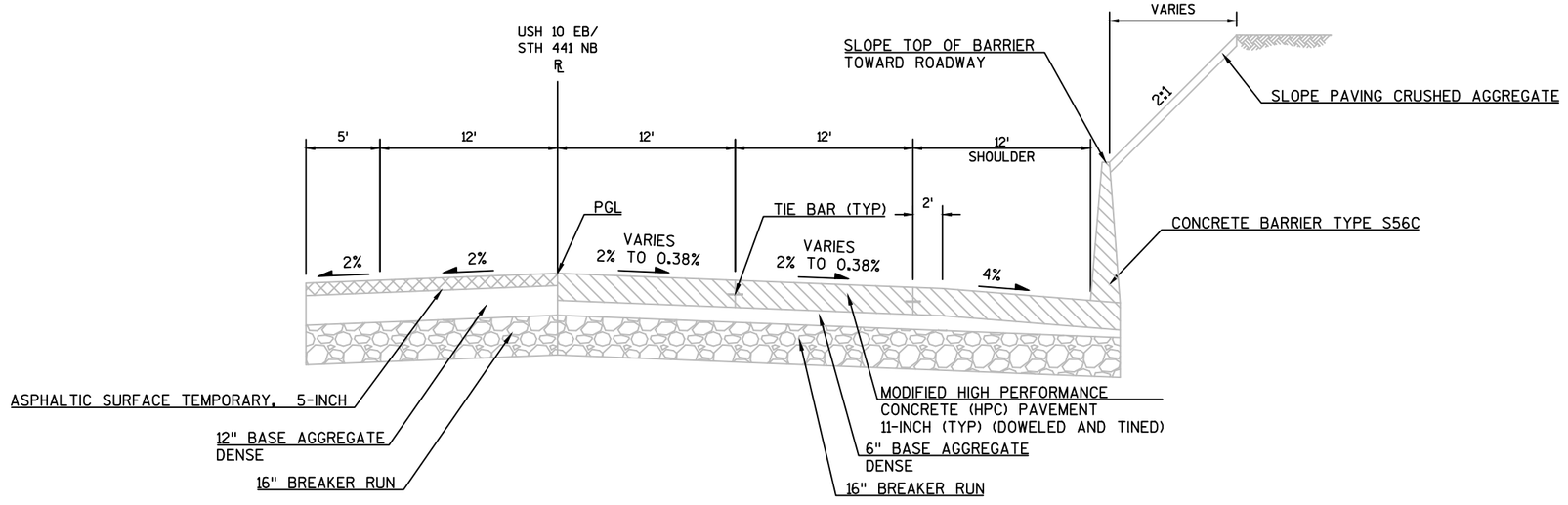
*30.3' FROM STA 217EB+00.00 TO STA 218EB+13.42
5' FROM STA 218+13.42 TO STA 223EB+00.00



TYPICAL EXISTING SECTION
USH 10 EB/STH 441 NB

STA 217EB+00.00 TO STA 218EB+75.00
STA 220EB+00.00 TO STA 223EB+00.00

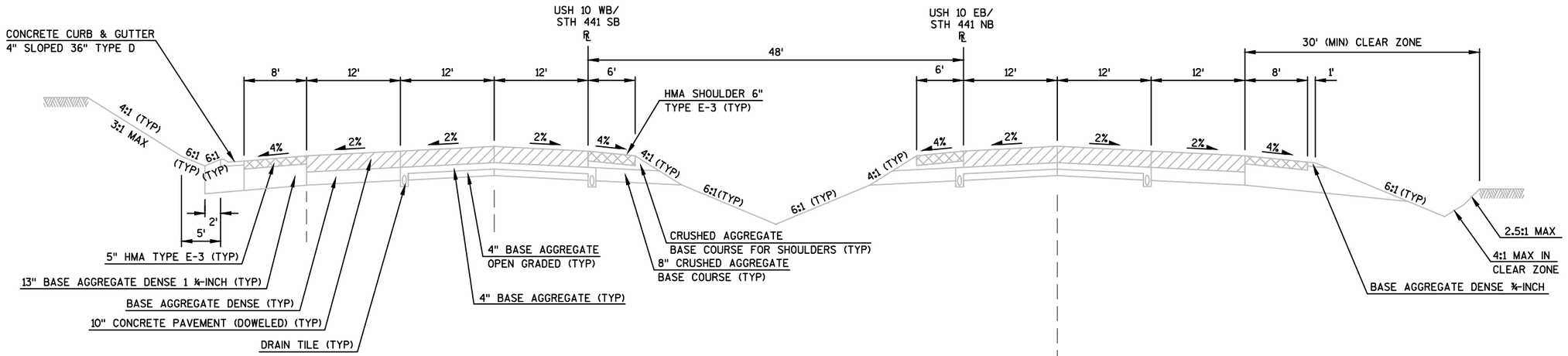
STA 217EB+25.00 TO STA 218EB+75.00
STA 220EB+00.00 TO STA 221EB+50.00

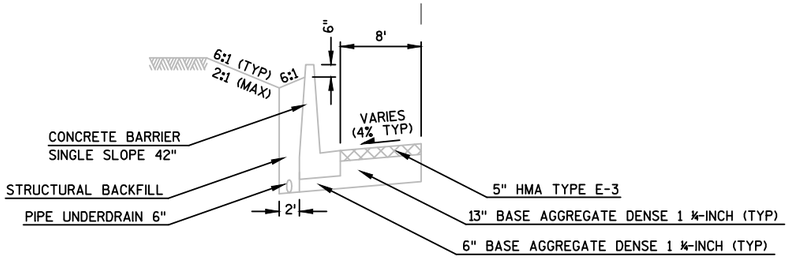


TYPICAL EXISTING SECTION
USH 10 EB/STH 441 NB

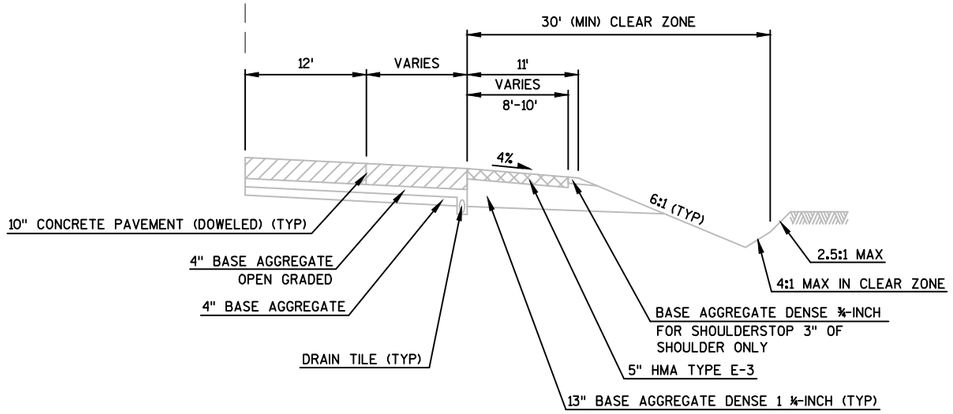
STA 218EB+75.00 TO STA 220EB+00.00

PROJECT NO: 1517-75-72	HWY: STH 441/USH 10	COUNTY: WINNEBAGO	TYPICAL SECTION	SHEET 7	E





STA 217WB+00 TO STA 222WB+33

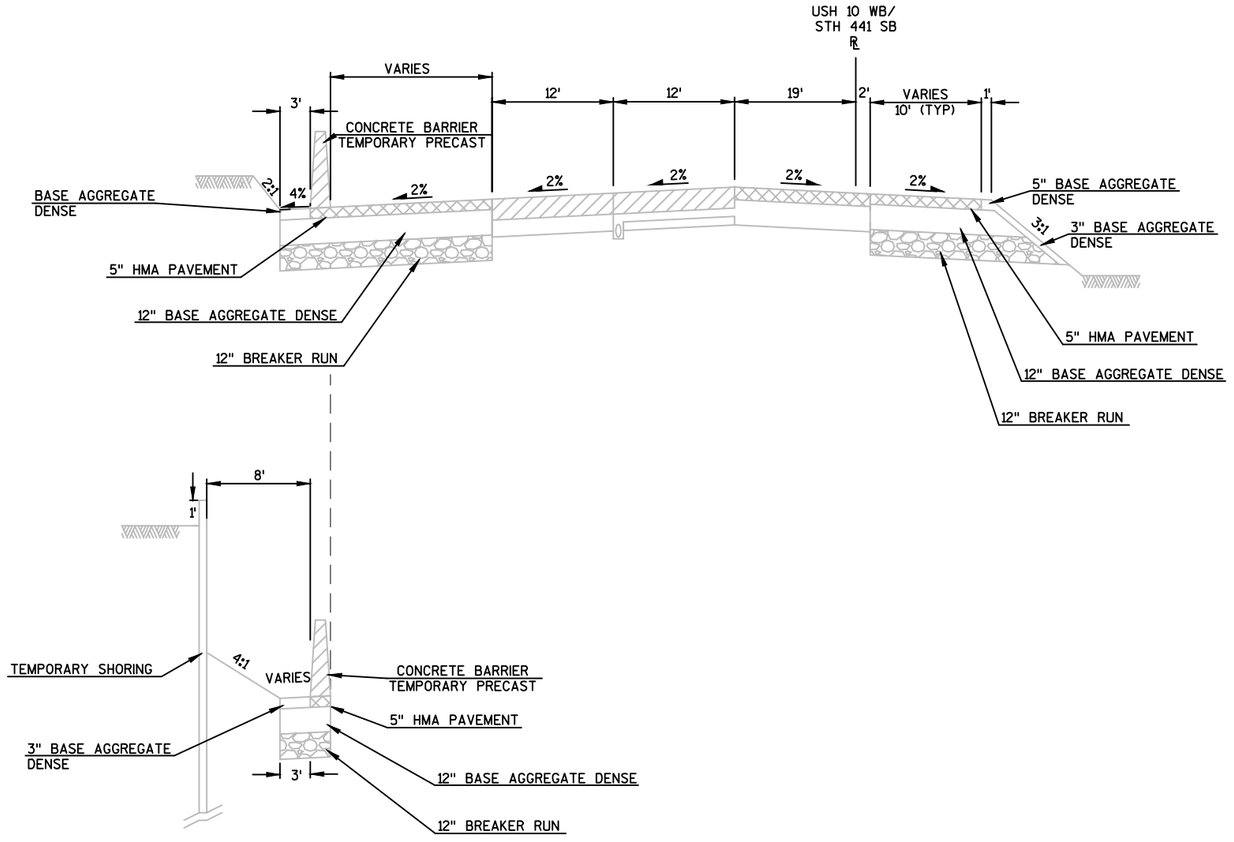


STA 226EB+16 TO STA 227EB+00

TYPICAL EXISTING SECTION
USH 10/STH 441
STA 222EB+00 TO STA 227EB+00
STA 217WB+50 LT TO STA 224WB+76 LT
STA 226WB+80 RT TO STA 227WB+16 RT

PROJECT NO: 1517-75-72	HWY: STH 441/USH 10	COUNTY: WINNEBAGO	TYPICAL SECTION	SHEET 8	E

2



STA 227WB LT+80 TO STA 230WB+14 LT

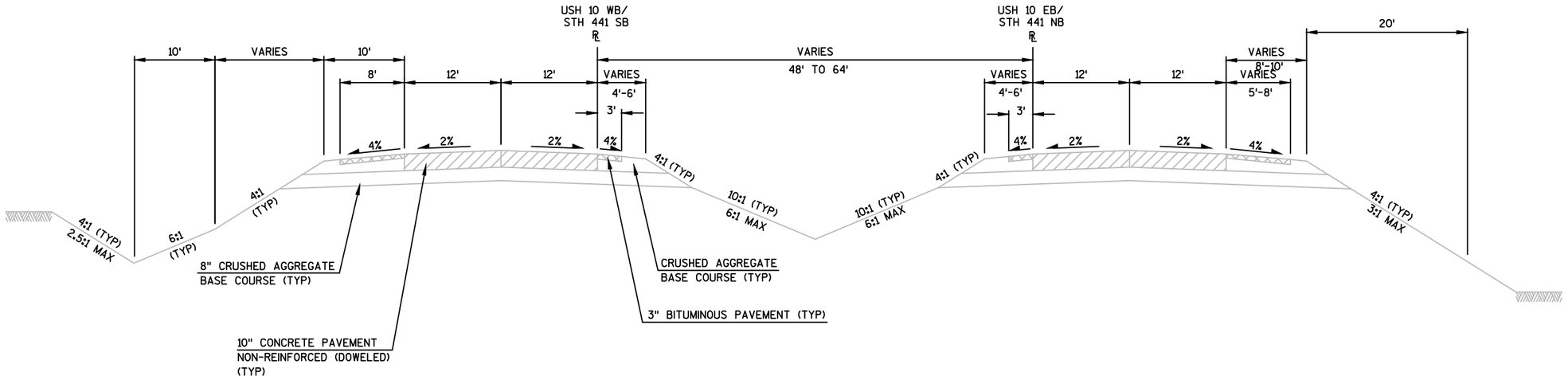
TYPICAL EXISTING SECTION

STH 441 SB / USH 10 WB WIDENING

STA 217WB+38 RT TO STA 226WB+80 RT
STA 224WB+76 LT TO STA 230WB+14 LT

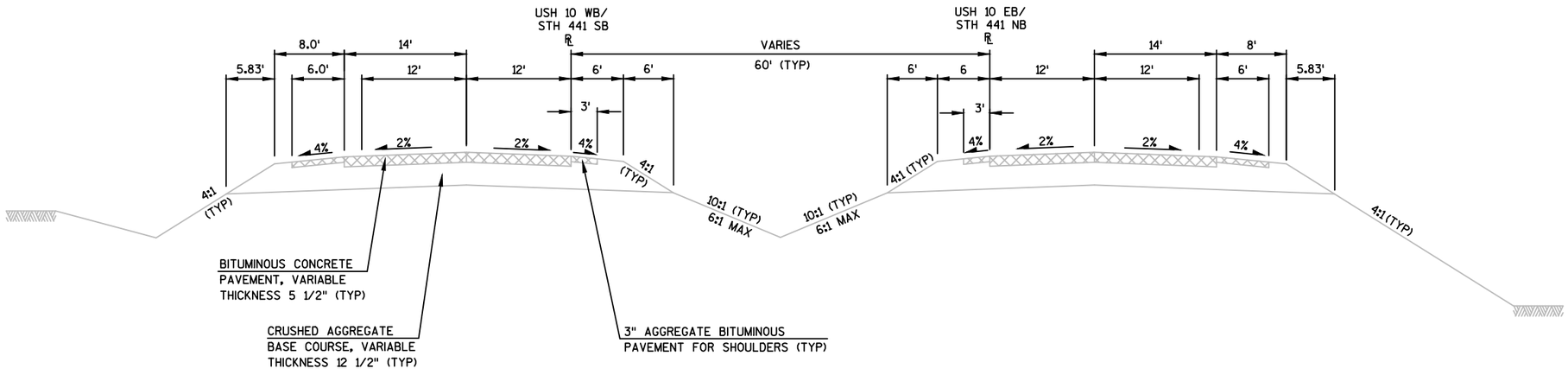
PROJECT NO: 1517-75-72	HWY: STH 441/USH 10	COUNTY: WINNEBAGO	TYPICAL SECTION	SHEET 9	E

FILE NAME : S:\PDS\C3D\WIS441\15177570_72_77_85\SHEETSPLAN\1517-75-72\020300-TS\NE-15177572-020301-TS.DWG
LAYOUT NAME - 03
PLOT DATE : 2/10/2017 11:41 AM PLOT BY : MARTENS, JOHN M PLOT NAME : PLOT SCALE : 1 IN:10 FT
WISDOT/CADDS SHEET 42



TYPICAL EXISTING SECTION
USH 10/STH 441

STA 227WB+16 RT TO STA 231WB+58 RT
STA 233WB+63 LT TO STA 237WB+91 LT / STA 227EB+00 TO STA 238EB+92
STA 240WB+71 TO STA 242WB+51 / STA 241EB+42 TO STA 243EB+12
STA 245EB+59 TO STA 246EB+89
STA 254EB+46 TO STA 256EB+50
STA 261EB+76 TO STA 271EB+00

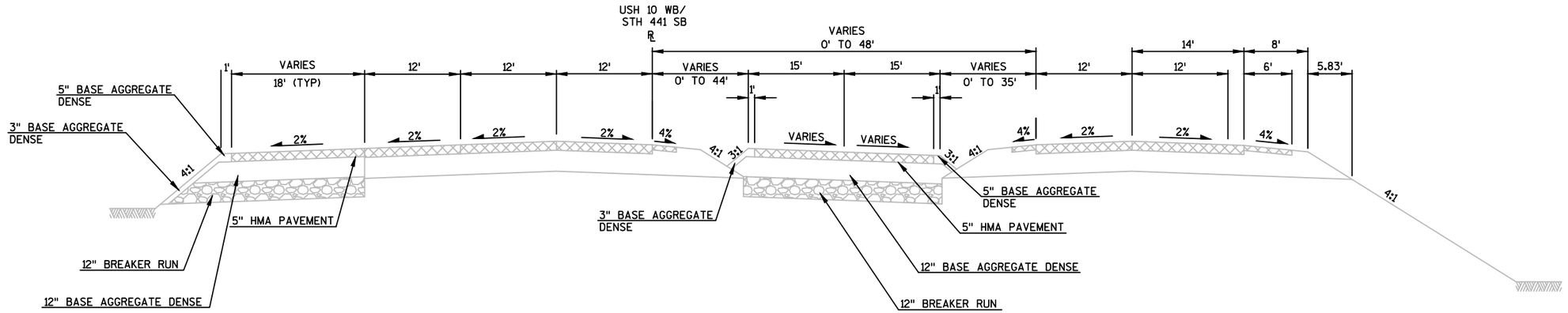


TYPICAL EXISTING SECTION
USH 10/STH 441

STA 237WB+91 LT TO STA 240WB+71 LT / STA 238EB+92 TO STA 241EB+42
STA 239WB+58 RT TO STA 240WB+71 RT
STA 242WB+51 TO STA 244WB+81 / STA 243EB+12 TO STA 245EB+59

PROJECT NO: 1517-75-72	HWY: STH 441/USH 10	COUNTY: WINNEBAGO	TYPICAL SECTION	SHEET 10	E

2

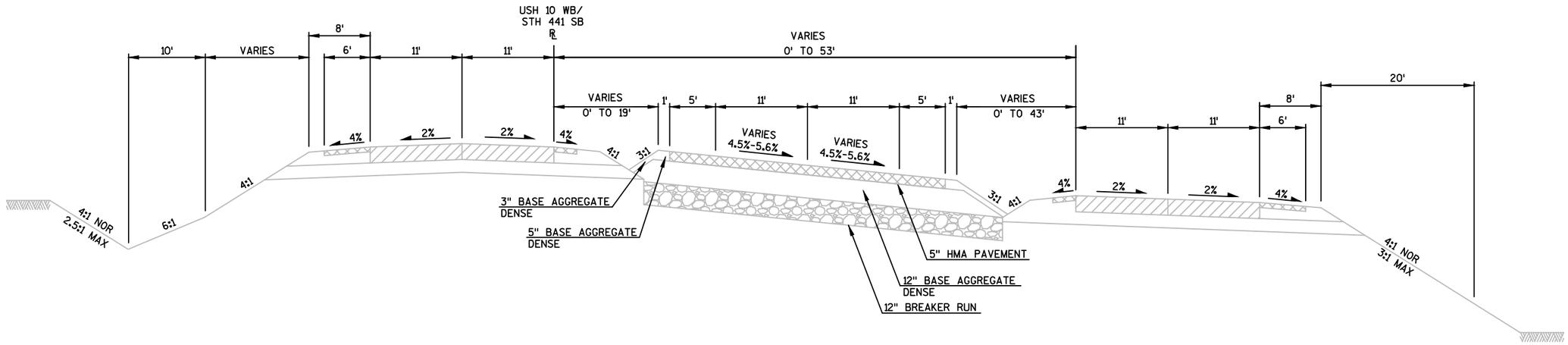


TYPICAL EXISTING SECTION

STH 441 NB / USH 10 EB TEMPORARY CROSSOVER

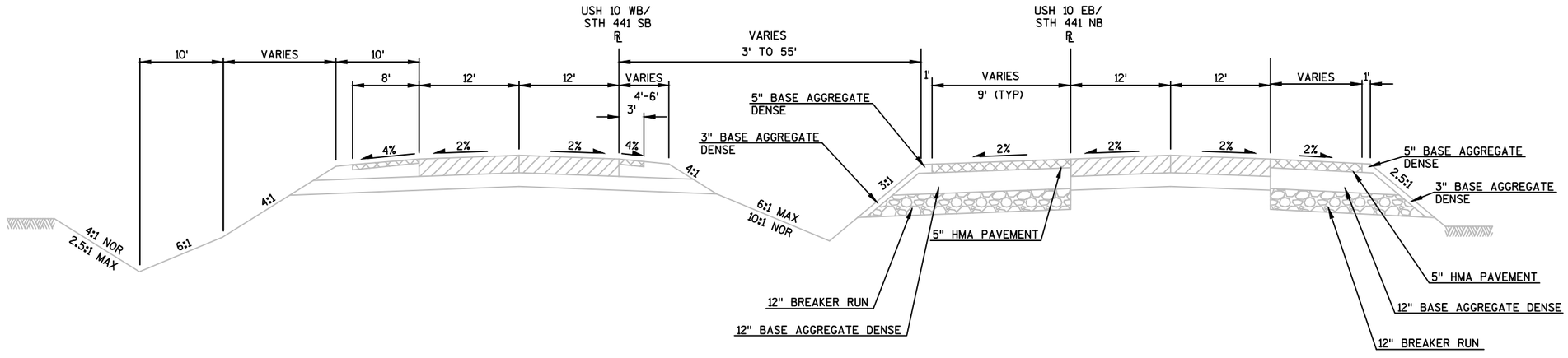
STA 230WB+14 LT TO STA 233WB+63 LT
STA 231WB+58 RT TO STA 239WB+58 RT

PROJECT NO: 1517-75-72	HWY: STH 441/USH 10	COUNTY: WINNEBAGO	TYPICAL SECTION	SHEET 11	E



TYPICAL EXISTING SECTION
STH 441 SB / USH 10 WB TEMPORARY CROSSOVER

STA 243WB+81 RT TO STA 250WB+61 RT

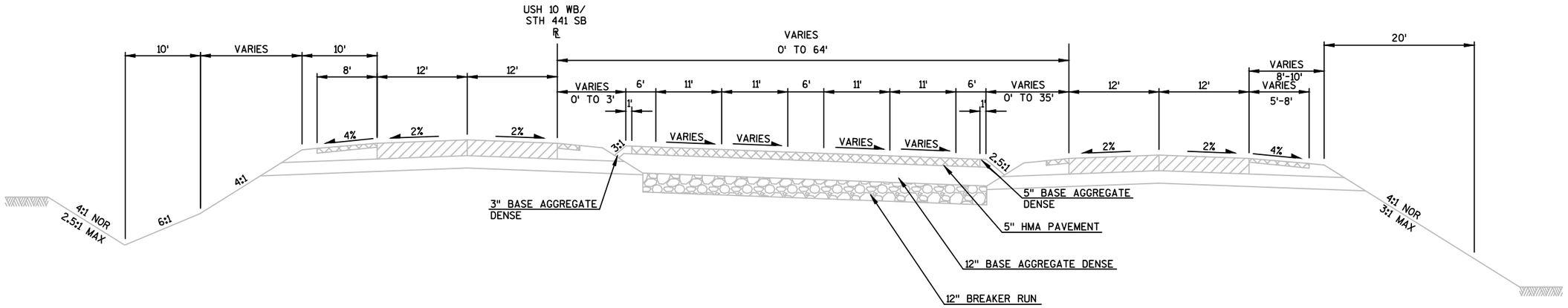


TYPICAL EXISTING SECTION
STH 441 NB / USH 10 EB WIDENING

STA 250WB+61 RT TO STA 265WB+00 RT
STA 246EB+89 RT TO STA 254EB+46 RT
STA 256EB+50 RT TO STA 261EB+76 RT

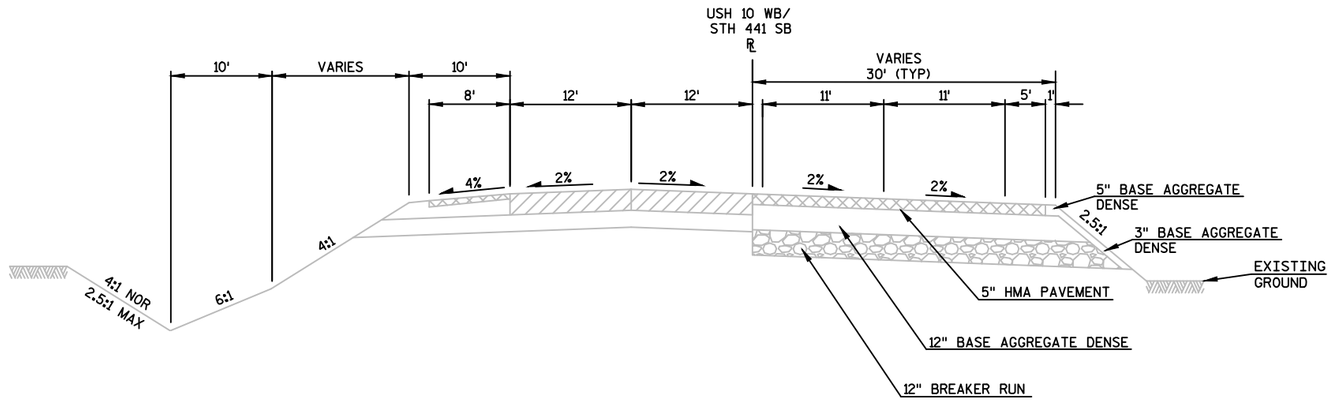
PROJECT NO: 1517-75-72	HWY: STH 441/USH 10	COUNTY: WINNEBAGO	TYPICAL SECTION	SHEET 12	E

2



TYPICAL EXISTING SECTION
STH 441/ USH 10 TEMPORARY CROSSOVER

STA 265WB+00 RT TO STA 270WB+00 RT

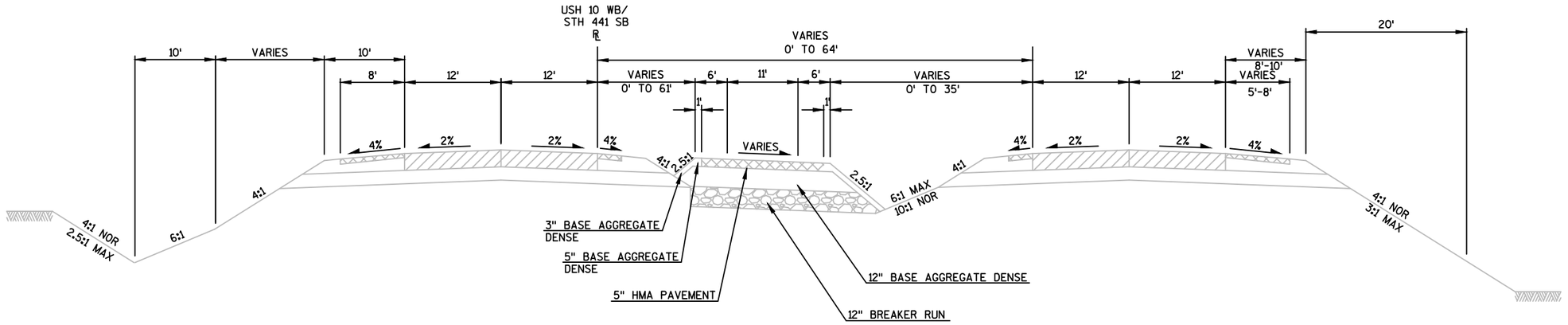


TYPICAL EXISTING SECTION
STH 441 SB / USH 10 WB WIDENING

STA 270WB+00 TO STA 289WB+02

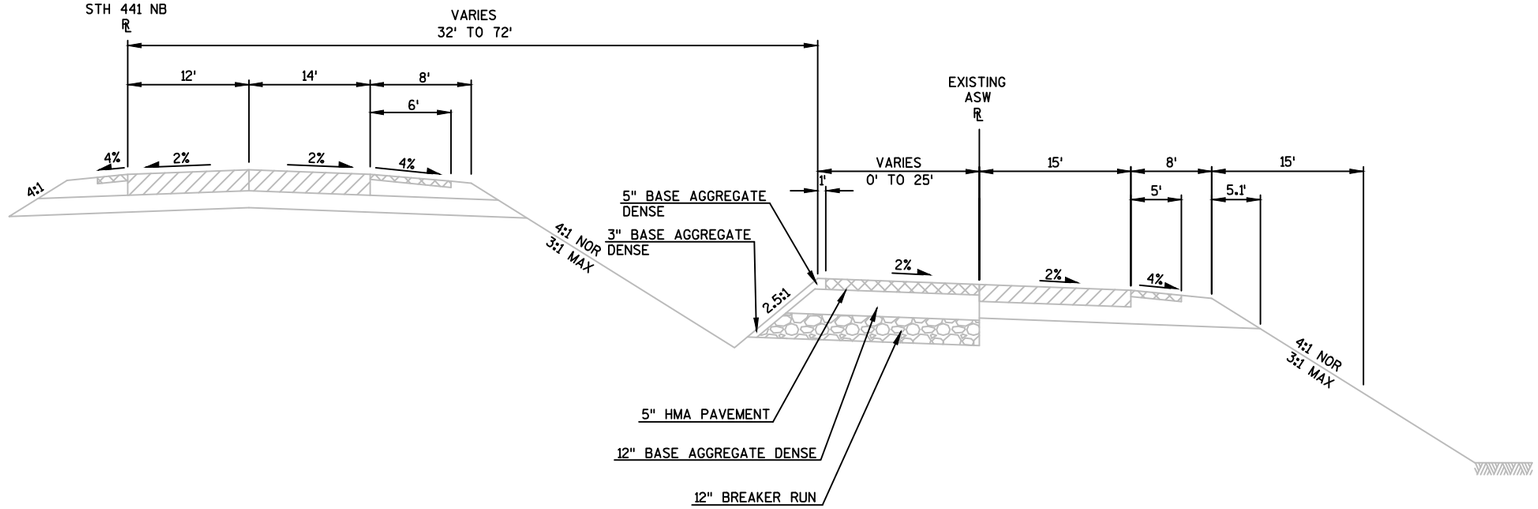
PROJECT NO: 1517-75-72	HWY: STH 441/USH 10	COUNTY: WINNEBAGO	TYPICAL SECTION	SHEET 13	E

2



TYPICAL EXISTING SECTION
TEMPORARY APPLETON RAMP CROSS OVER

STA 277WB+50 RT TO STA 282WB+00 RT

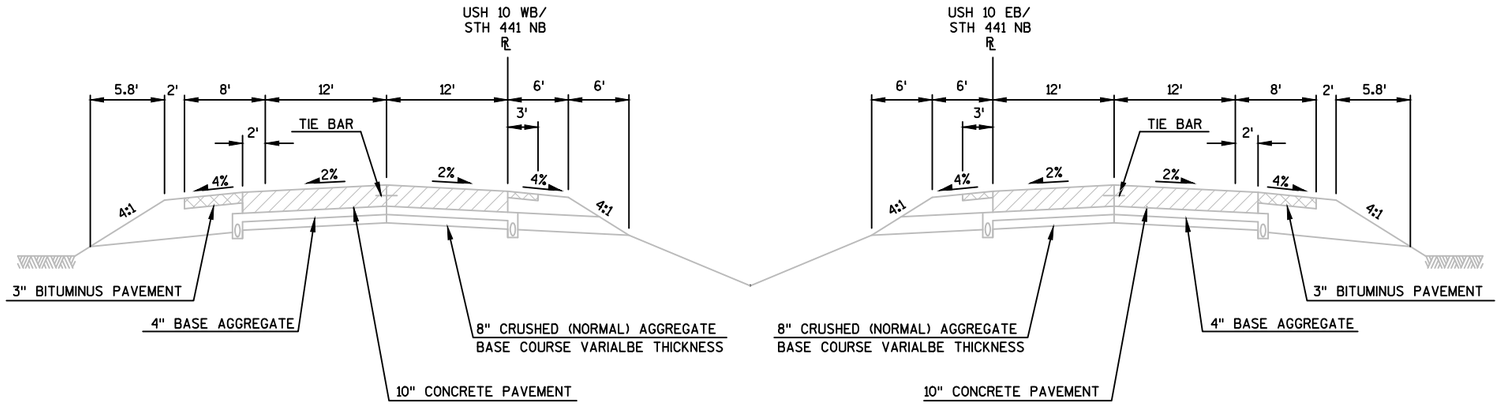


TYPICAL EXISTING SECTION
TEMPORARY APPLETON SW RAMP WIDENING

STA 283EB+49 RT TO STA 286EB+28 RT

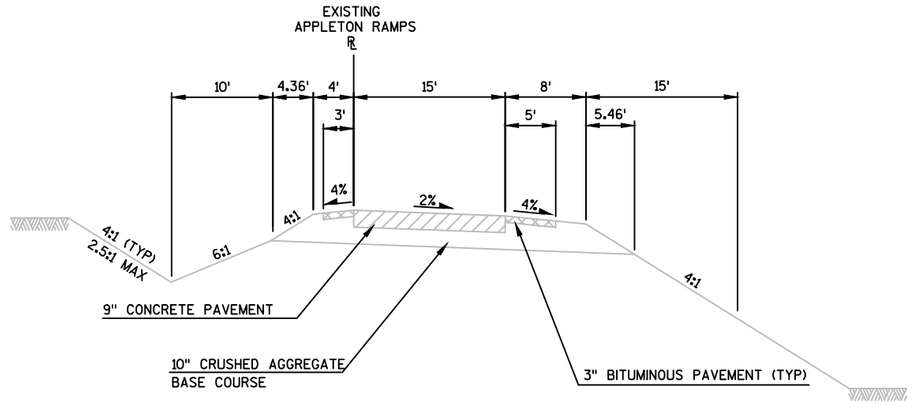
PROJECT NO: 1517-75-72	HWY: STH 441/USH 10	COUNTY: WINNEBAGO	TYPICAL SECTION	SHEET 14	E

2



TYPICAL EXISTING SECTION
USH 10/STH 441

STA 271EB+00 TO STA 283EB+49
STA 286EB+28 TO STA 315EB+50
STA 289WB+02 TO STA 315WB+50

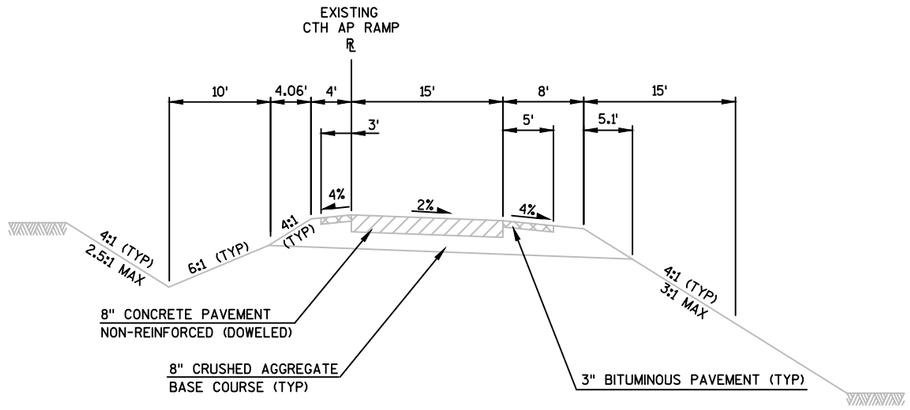


TYPICAL EXISTING SECTION
STH 47 (APPLETON) RAMPS

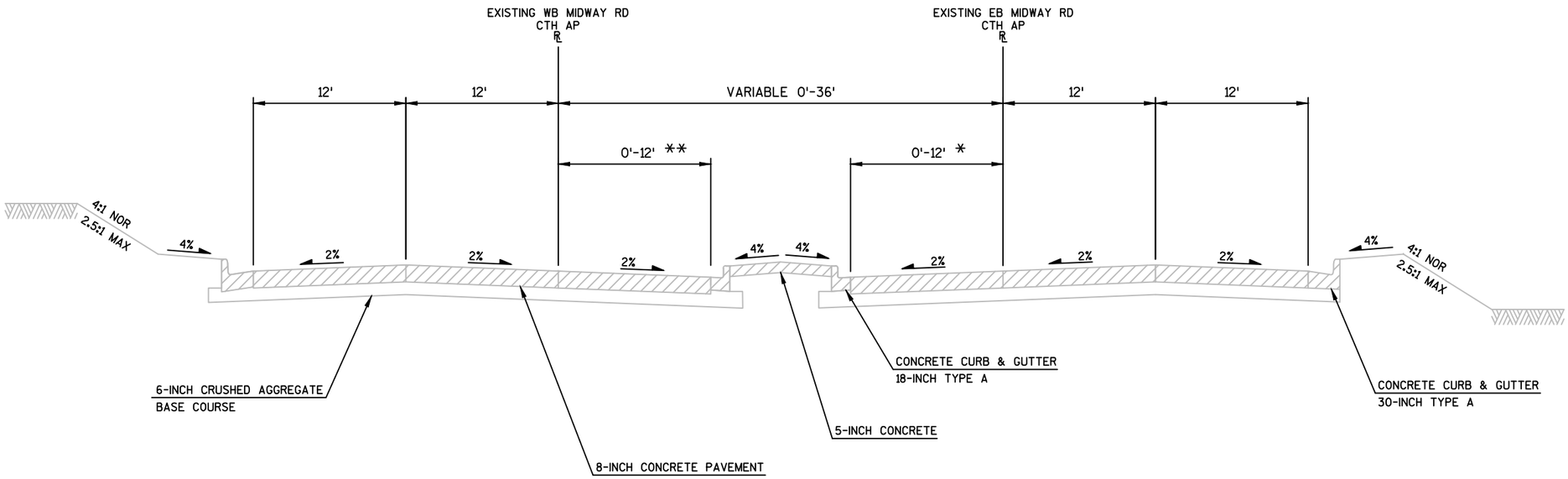
STA 283ASW+00 TO STA 288ASW+92

PROJECT NO: 1517-75-72	HWY: STH 441/USH 10	COUNTY: WINNEBAGO	TYPICAL SECTION	SHEET 15	E

2



TYPICAL EXISTING SECTION
CTH AP (MIDWAY) EB & WB ON AND OFF RAMPS



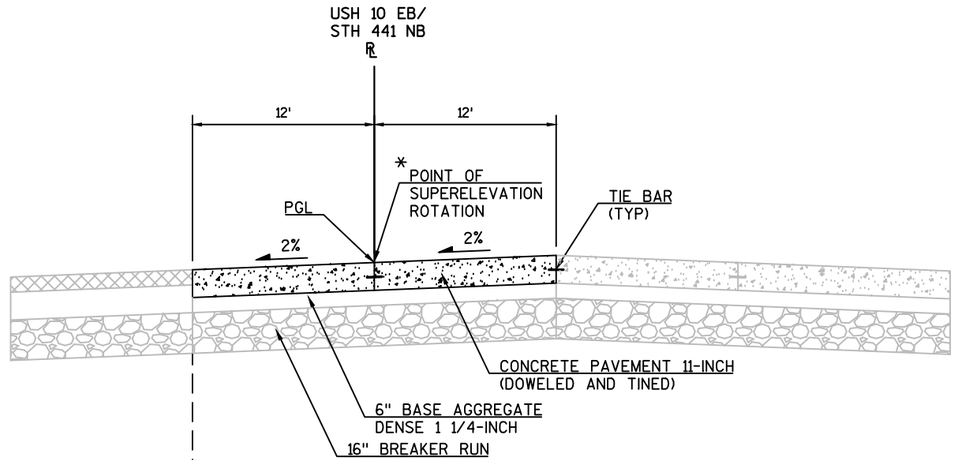
TYPICAL EXISTING SECTION
MIDWAY ROAD (CTH AP)

STA 15MEB+00 TO STA 25MEB+00
*STA 17MEB+73.50 TO STA 21MEB+80.53
**STA 17MWB+93.14 TO STA 21MWB+51.43

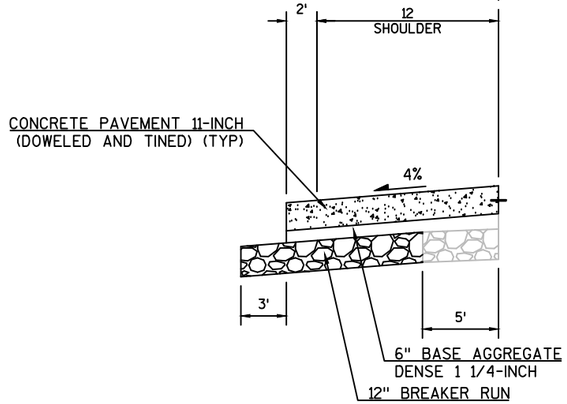
PROJECT NO: 1517-75-72	HWY: STH 441/USH 10	COUNTY: WINNEBAGO	TYPICAL SECTION	SHEET 16	E

2

*STA 219EB+13.09 TO STA 222EB+85.09 NORMAL CROWN TO FULL SUPER.



STA 217EB+00.00 TO STA 223EB+00.00



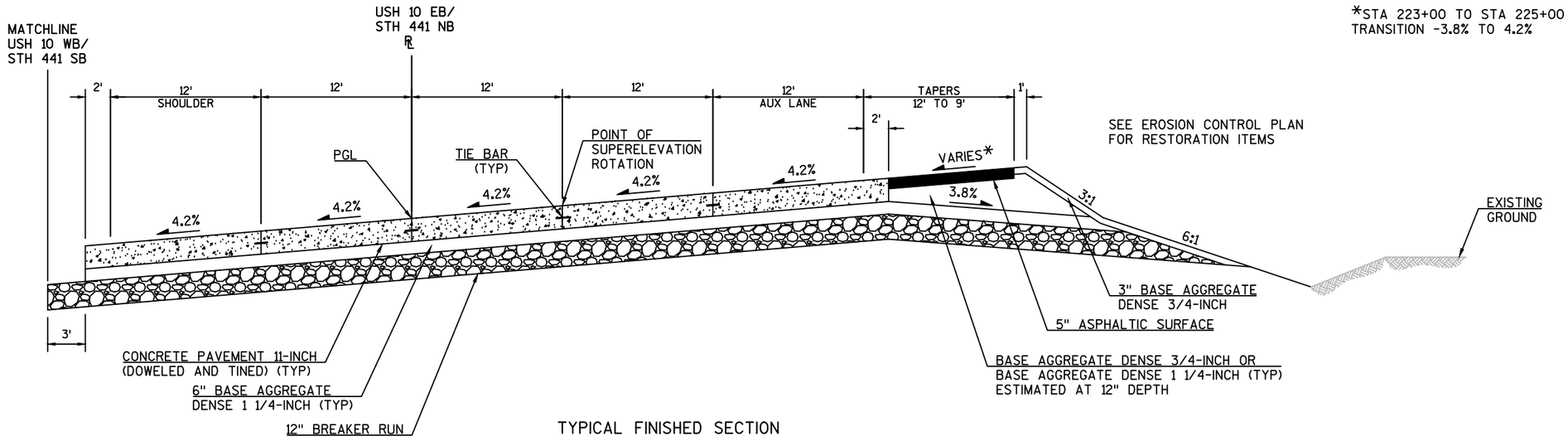
STA 218EB+13.42 TO STA 223EB+00.00

TYPICAL FINISHED SECTION

USH 10 EB/STH 441 NB

STA 217EB+00.00 TO STA 223EB+00.00

2



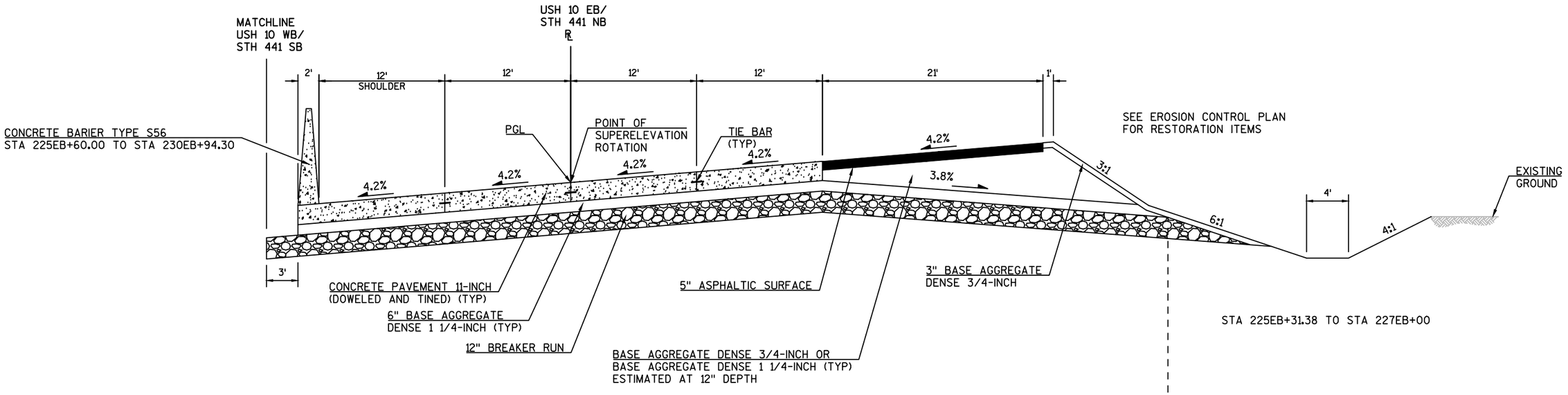
TYPICAL FINISHED SECTION

USH 10 EB/STH 441 NB

STA 223EB+00.00 TO STA 225EB+31.38

PROJECT NO: 1517-75-72	HWY: STH 441/USH 10	COUNTY: WINNEBAGO	TYPICAL SECTIONS	SHEET 18	E

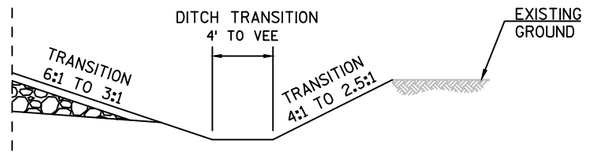
FILE NAME : S:\PDS\C3D\WIS441\15177570_72_77_85\SHEETSPLAN\1517-75-72\020300-TS\NE-15177572-020302-TS.DWG
LAYOUT NAME - 020302-ts2
PLOT DATE : 2/8/2017 10:21 AM PLOT BY : MARTENS, JOHN M PLOT NAME : PLOT SCALE : 1 IN:10 FT
WISDOT/CADDS SHEET 42



TYPICAL FINISHED SECTION

USH 10 EB/STH 441 NB

STA 225EB+31.38 TO STA 230EB+94.30

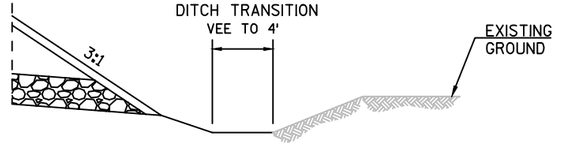


STA 227EB+00 TO STA 230EB+00

FOR SLOPE TRANSITION, STA 227EB+00 TO STA 229EB+00

DITCH TRANSITION, STA 229EB+00 TO STA 229EB+50

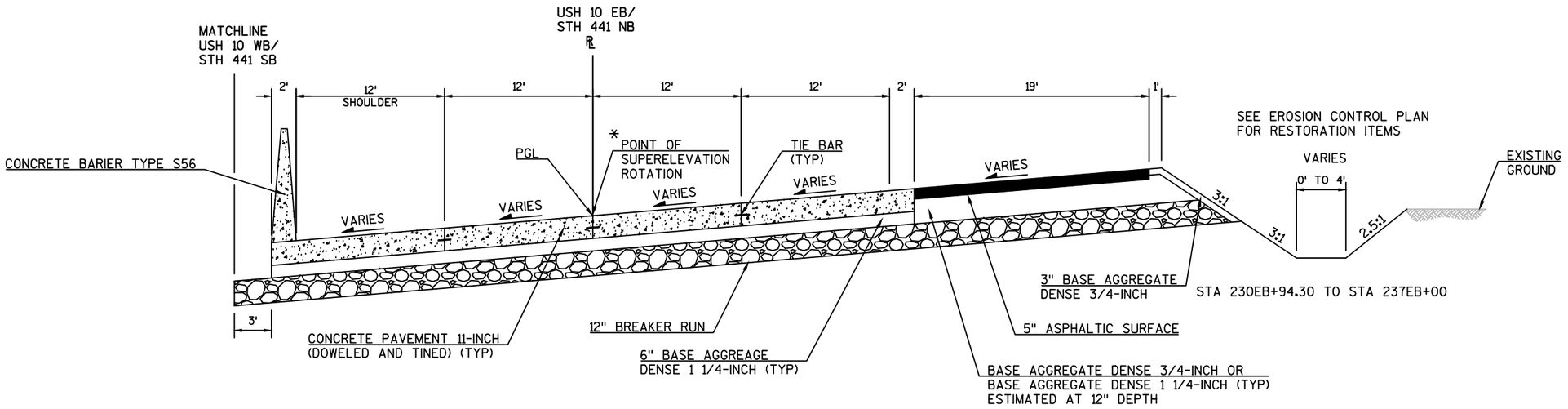
BACK SLOPE TRANSITION, STA 228EB+50 TO STA 229EB+50



STA 230EB+50 TO STA 230EB+94.30

:MAINTAIN 4' FLAT BOTTOM DITCH

PROJECT NO: 1517-75-72	HWY: STH 441/USH 10	COUNTY: WINNEBAGO	TYPICAL SECTIONS	SHEET 19	E



TYPICAL FINISHED SECTION

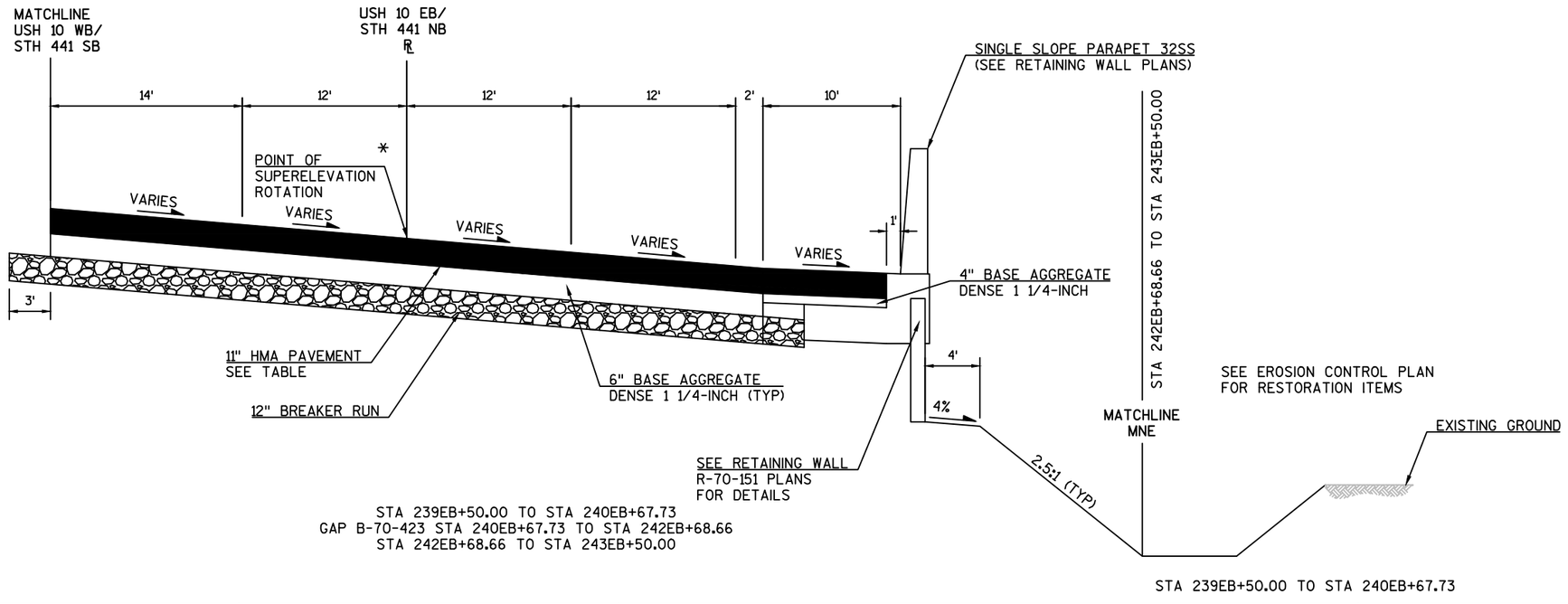
USH 10 EB/STH 441 NB

STA 230EB+94.30 TO STA 239EB+50.00

NOTE

*STA 236EB+64.23 TO STA 239EB+16.23 FULL SUPER TO LEVEL CROWN

*STA 239EB+16.23 TO STA 243EB+67.50 LEVEL CROWN TO FULL SUPER



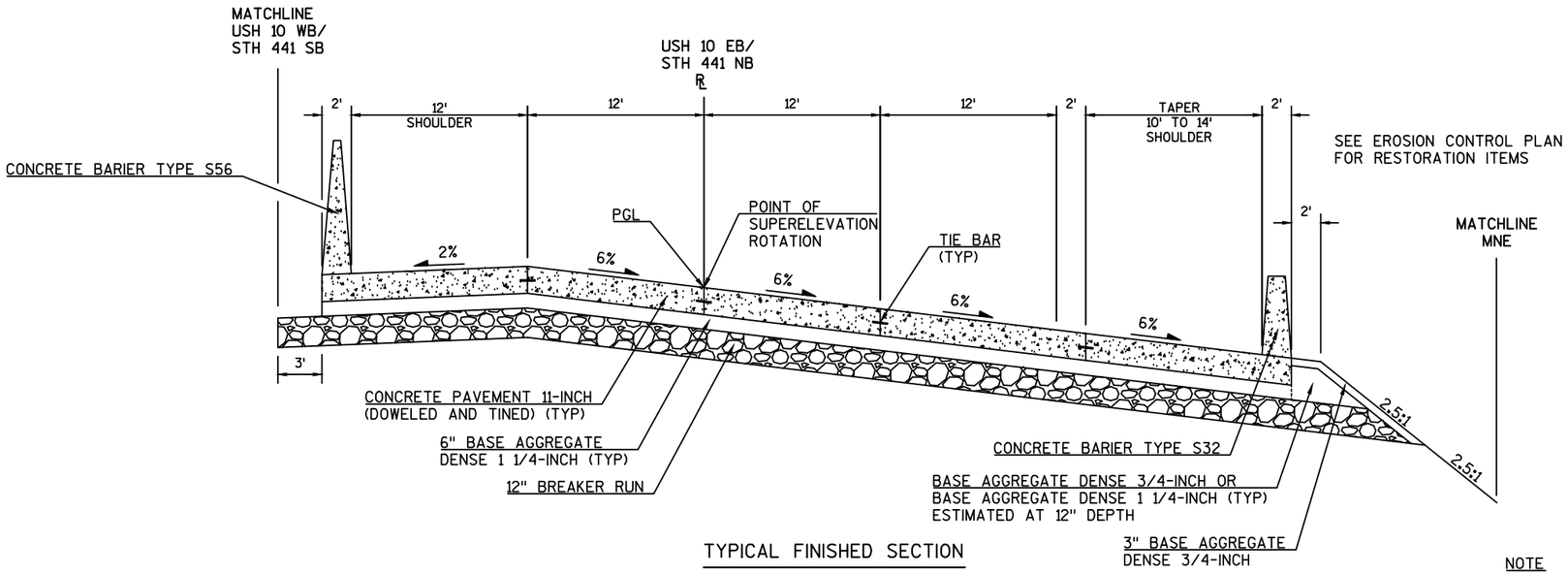
STA 239EB+50.00 TO STA 240EB+67.73
GAP B-70-423 STA 240EB+67.73 TO STA 242EB+68.66
STA 242EB+68.66 TO STA 243EB+50.00

STA 239EB+50.00 TO STA 240EB+67.73

CONSTRUCT HMA PAVEMENT WITH THE FOLLOWING LAYERS AND GRADATIONS

LAYERS	TOTAL LAYER PAVEMENT THICKNESS	PAVEMENT TYPE
1 ¾" UPPER LAYER 3 ¼" LOWER LAYER	5"	4LT 58-28 S 3LT 58-28 S
2 1/2" UPPER LAYER 4" LOWER LAYER 4 1/2" LOWER LAYER	11"	4HT 58-28 H 3HT 58-28 H 3HT 58-28 H

PROJECT NO: 1517-75-72	HWY: STH 441/USH 10	COUNTY: WINNEBAGO	TYPICAL SECTIONS	SHEET 20	E



TYPICAL FINISHED SECTION

USH 10 EB/STH 441 NB

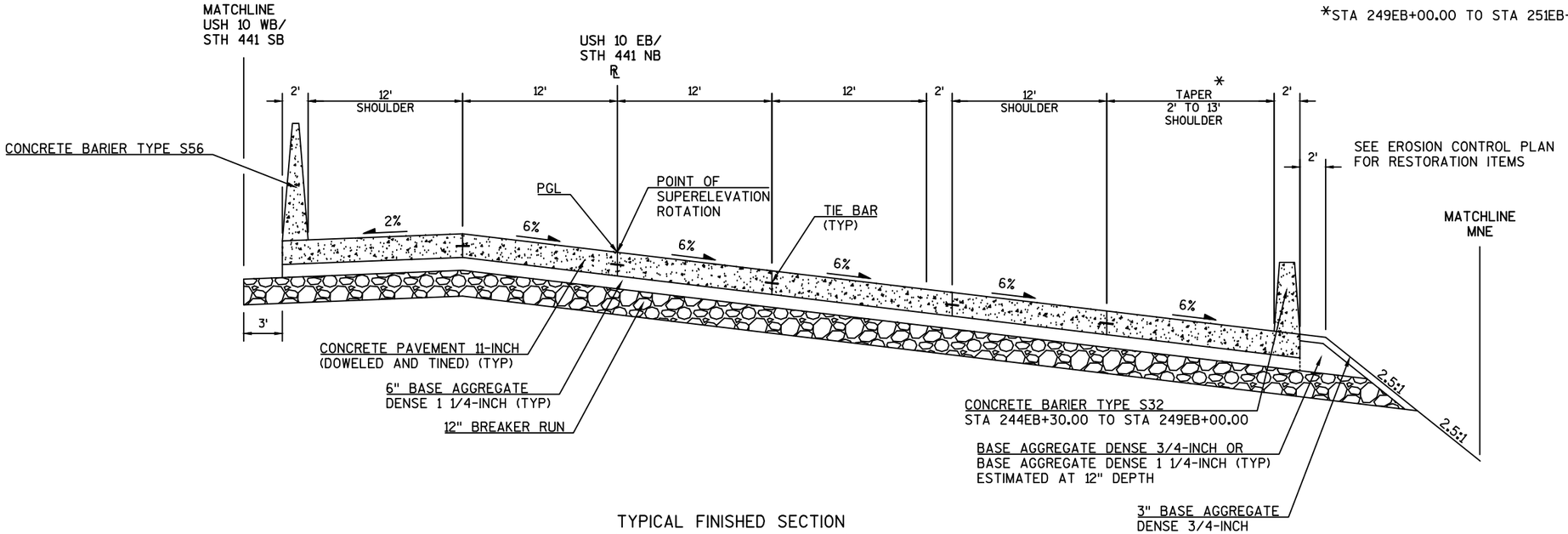
STA 243EB+50.00 TO STA 244EB+30.00

NOTE

*STA 244EB+30.00 TO STA 247EB+02.93 TAPER 2' TO 13'

*STA 247EB+02.93 TO STA 249EB+00.00 FULL 13' WIDTH

*STA 249EB+00.00 TO STA 251EB+19.95 TAPER 13' TO 2'



TYPICAL FINISHED SECTION

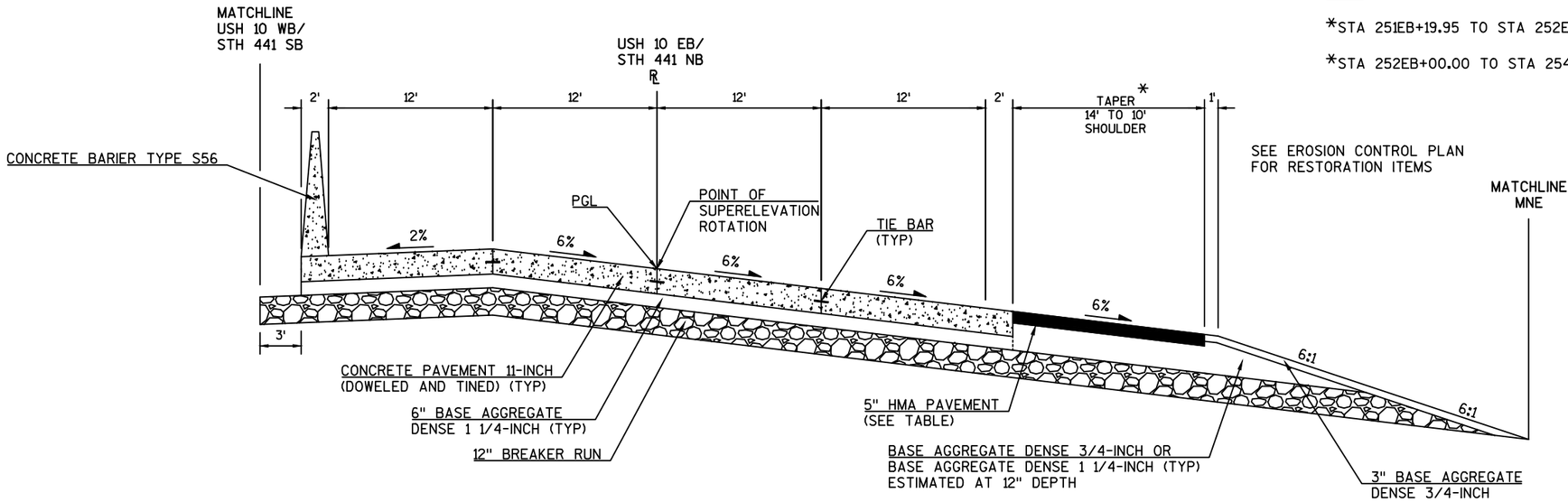
USH 10 EB/STH 441 NB

STA 244EB+30.00 TO STA 251EB+19.95

NOTE

*STA 251EB+19.95 TO STA 252EB+00.00 TAPER 14' TO 10'

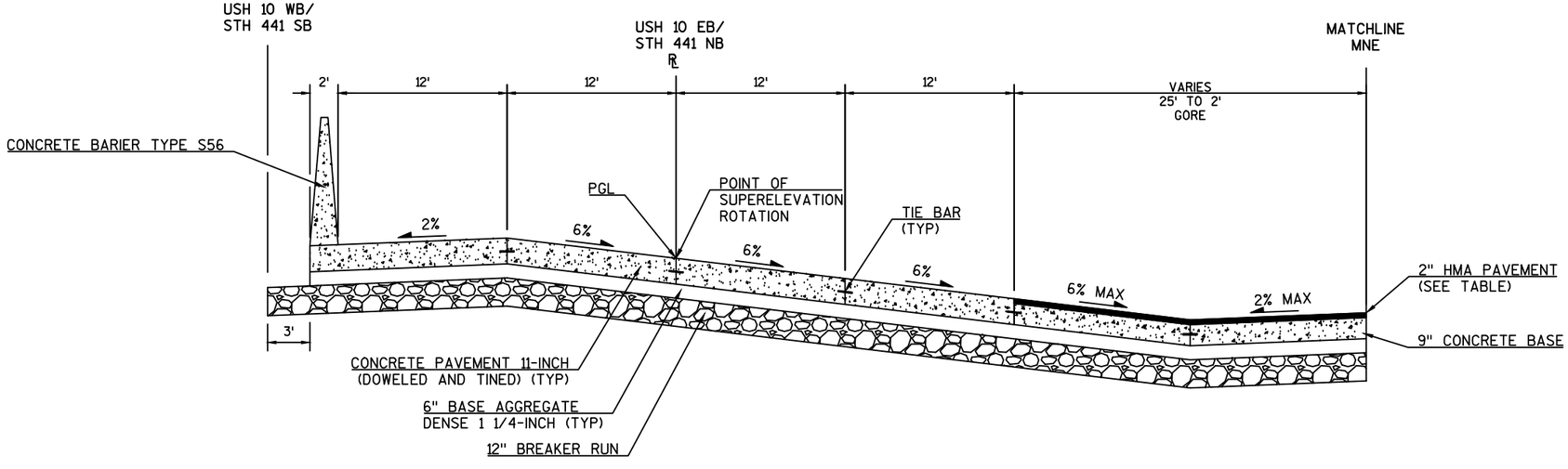
*STA 252EB+00.00 TO STA 254EB+10.25 FULL 10' WIDTH



TYPICAL FINISHED SECTION

USH 10 EB/STH 441 NB

STA 251EB+19.95 TO STA 254EB+10.25



TYPICAL FINISHED SECTION

USH 10 EB/STH 441 NB

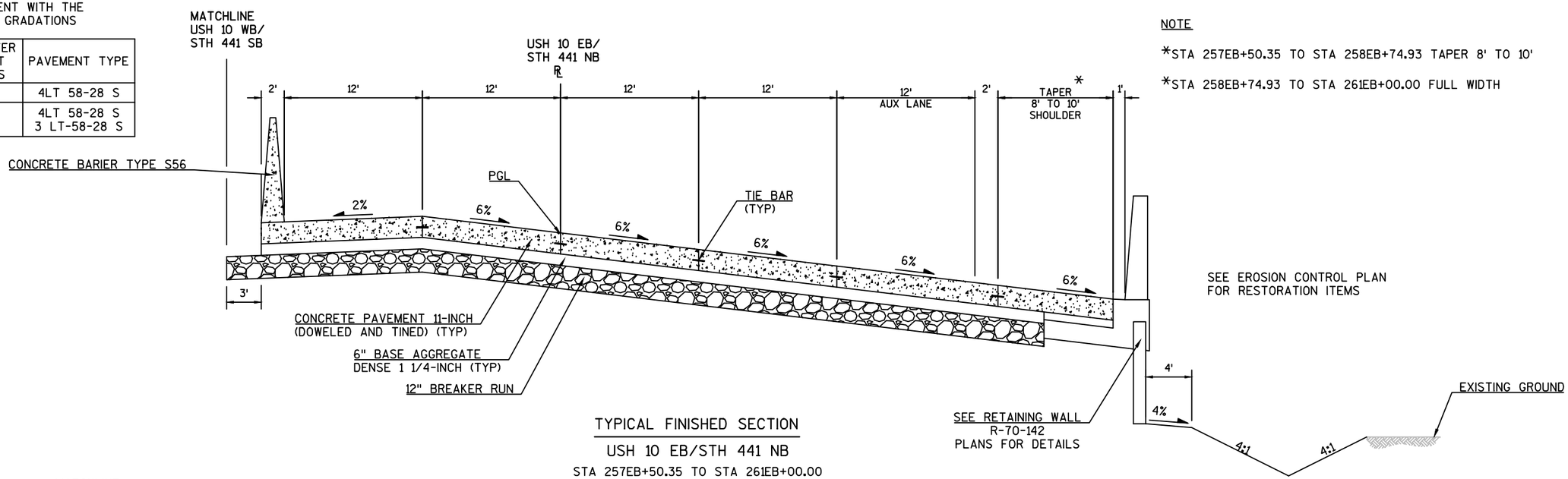
STA 254EB+10.25 TO STA 257EB+50.35

CONSTRUCT HMA PAVEMENT WITH THE FOLLOWING LAYERS AND GRADATIONS

LAYERS	TOTAL LAYER PAVEMENT THICKNESS	PAVEMENT TYPE
2" UPPER LAYER	2"	4LT 58-28 S
1 ¾" UPPER LAYER 3 ¼" LOWER LAYER	5"	4LT 58-28 S 3 LT-58-28 S

CONSTRUCT HMA PAVEMENT WITH THE FOLLOWING LAYERS AND GRADATIONS

LAYERS	TOTAL LAYER PAVEMENT THICKNESS	PAVEMENT TYPE
2" UPPER LAYER	2"	4LT 58-28 S
1 ¾" UPPER LAYER 3 ¼" LOWER LAYER	5"	4LT 58-28 S 3 LT-58-28 S



NOTE

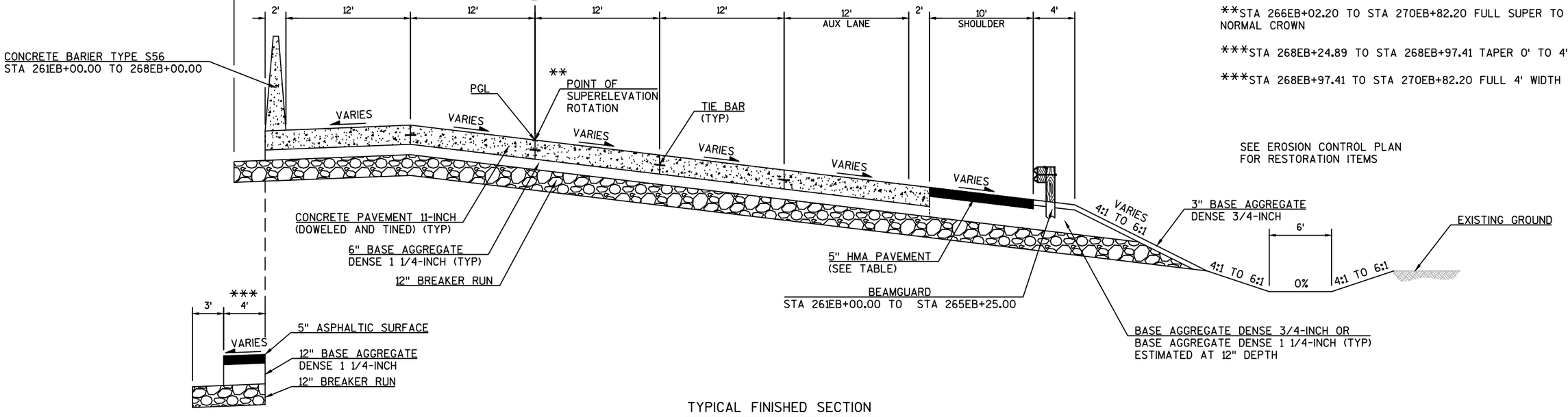
*STA 257EB+50.35 TO STA 258EB+74.93 TAPER 8' TO 10'

*STA 258EB+74.93 TO STA 261EB+00.00 FULL WIDTH

TYPICAL FINISHED SECTION

USH 10 EB/STH 441 NB

STA 257EB+50.35 TO STA 261EB+00.00



NOTE

**STA 266EB+02.20 TO STA 270EB+82.20 FULL SUPER TO NORMAL CROWN

***STA 268EB+24.89 TO STA 268EB+97.41 TAPER 0' TO 4'

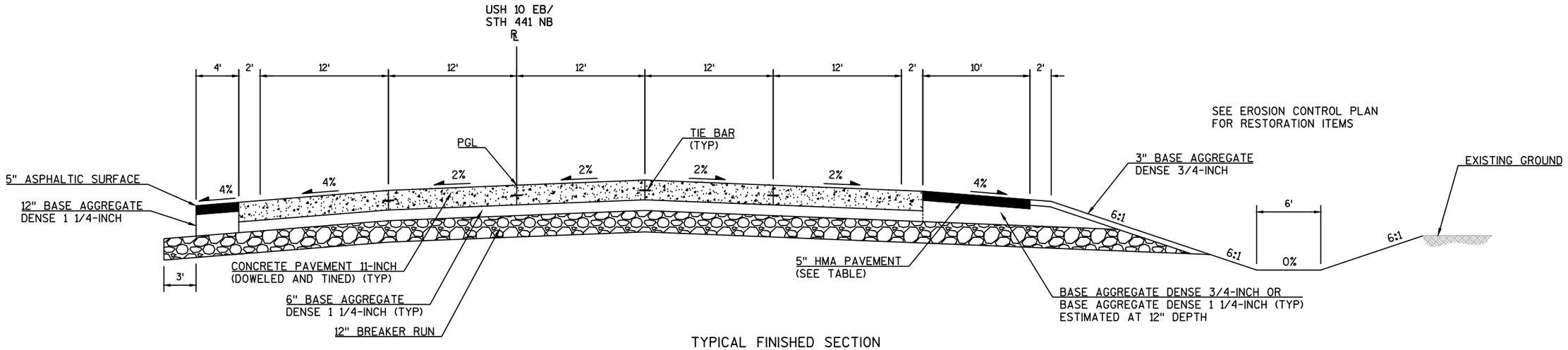
***STA 268EB+97.41 TO STA 270EB+82.20 FULL 4' WIDTH

TYPICAL FINISHED SECTION

USH 10 EB/STH 441 NB

STA 261EB+00.00 TO STA 270EB+82.20

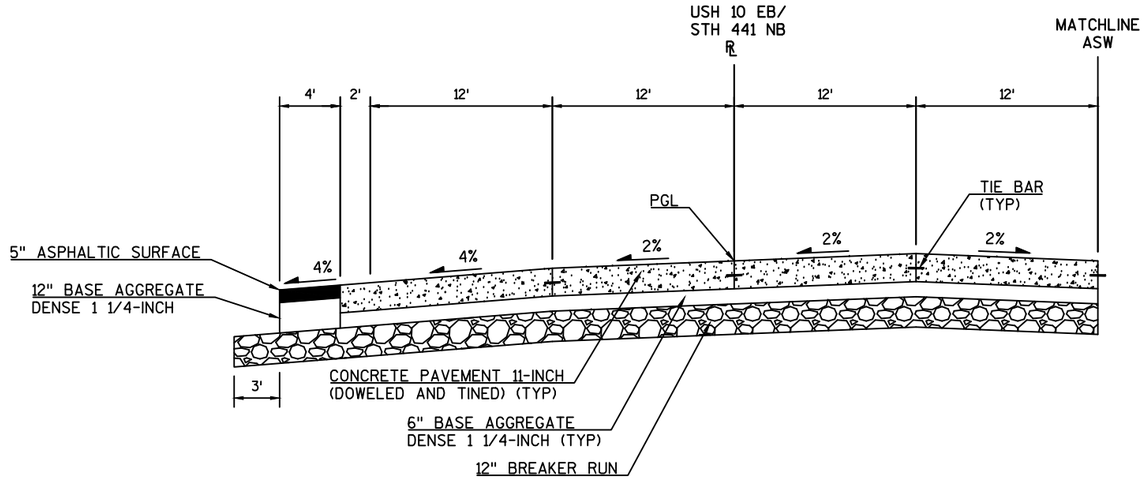
PROJECT NO: 1517-75-72	HWY: STH 441/USH 10	COUNTY: WINNEBAGO	TYPICAL SECTIONS	SHEET 23	E



TYPICAL FINISHED SECTION

USH 10 EB/STH 441 NB

STA 270EB+82.20 TO STA 272EB+05.68



CONSTRUCT HMA PAVEMENT WITH THE FOLLOWING LAYERS AND GRADATIONS

LAYERS	TOTAL LAYER PAVEMENT THICKNESS	PAVEMENT TYPE
2" UPPER LAYER	2"	4LT 58-28 S
1 ¾" UPPER LAYER 3 ¼" LOWER LAYER	5"	4LT 58-28 S 3 LT-58-28 S

TYPICAL FINISHED SECTION

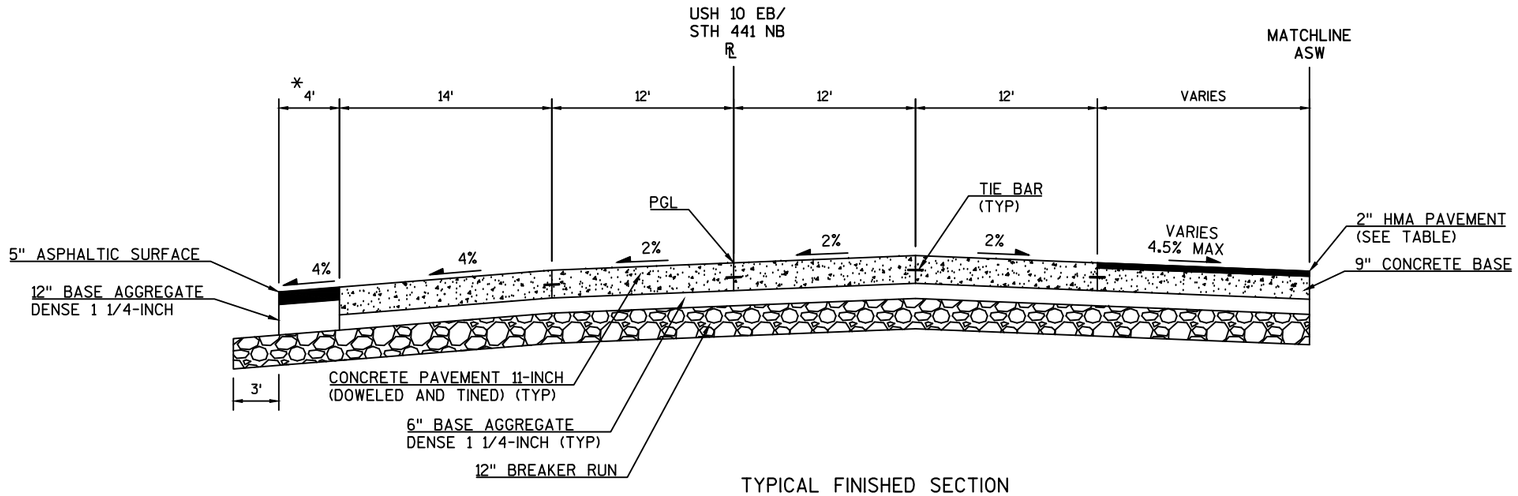
USH 10 EB/STH 441 NB

STA 272EB+05.68 TO STA 275EB+01.60

PROJECT NO: 1517-75-72	HWY: STH 441/USH 10	COUNTY: WINNEBAGO	TYPICAL SECTIONS	SHEET 24	E

NOTE

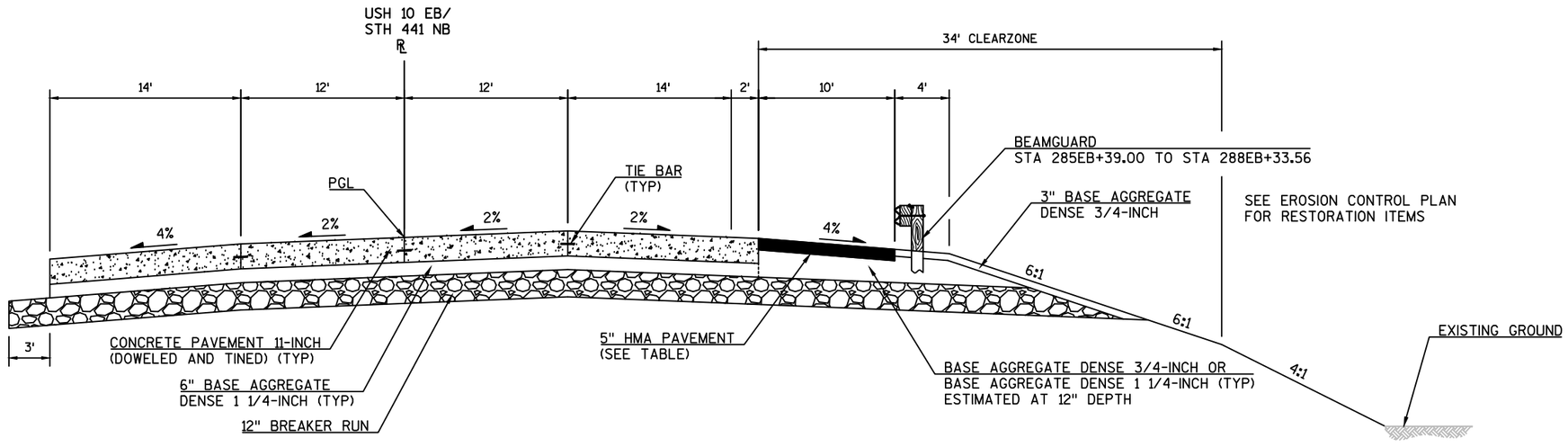
*STA 275EB+01.60 TO STA 275EB+24.26'



TYPICAL FINISHED SECTION

USH 10 EB/STH 441 NB

STA 275EB+01.60 TO STA 277EB+66.57



TYPICAL FINISHED SECTION

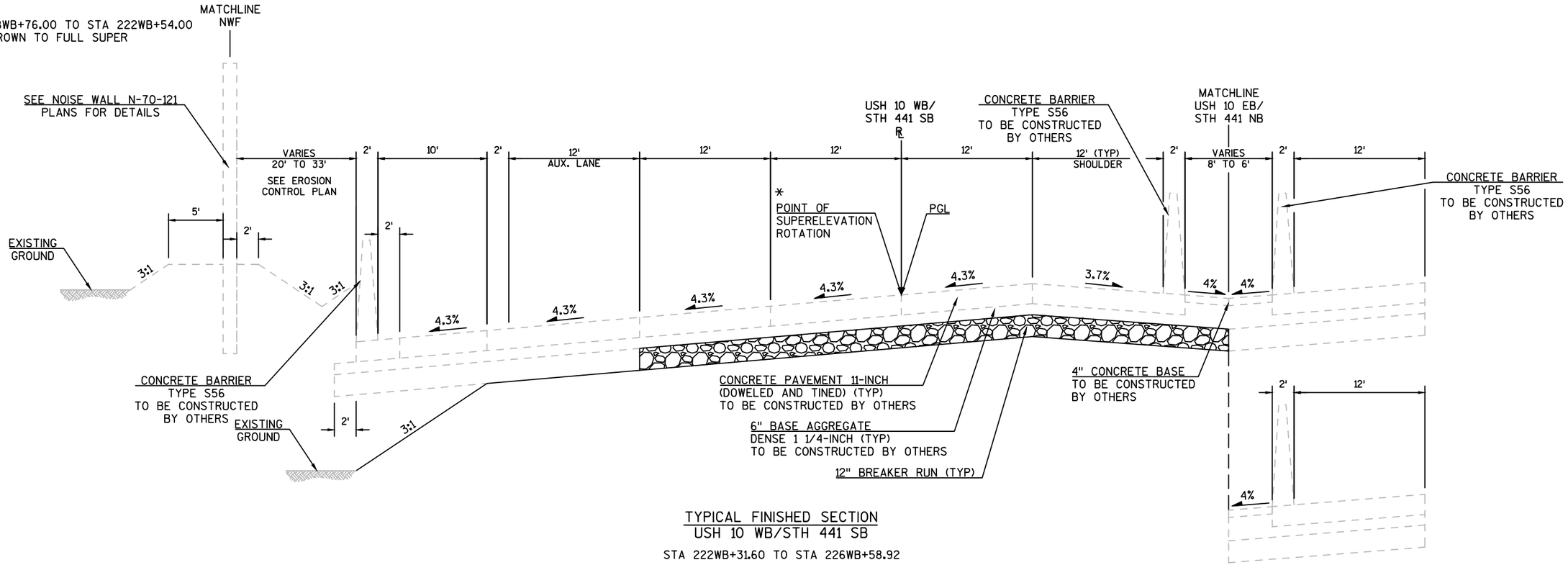
USH 10 EB/STH 441 NB

STA 277EB+66.57 TO STA 288EB+33.56

CONSTRUCT HMA PAVEMENT WITH THE FOLLOWING LAYERS AND GRADATIONS

LAYERS	TOTAL LAYER PAVEMENT THICKNESS	PAVEMENT TYPE
2" UPPER LAYER	2"	4LT 58-28 S
1 ¾" UPPER LAYER 3 ¼" LOWER LAYER	5"	4LT 58-28 S 3 LT-58-28 S

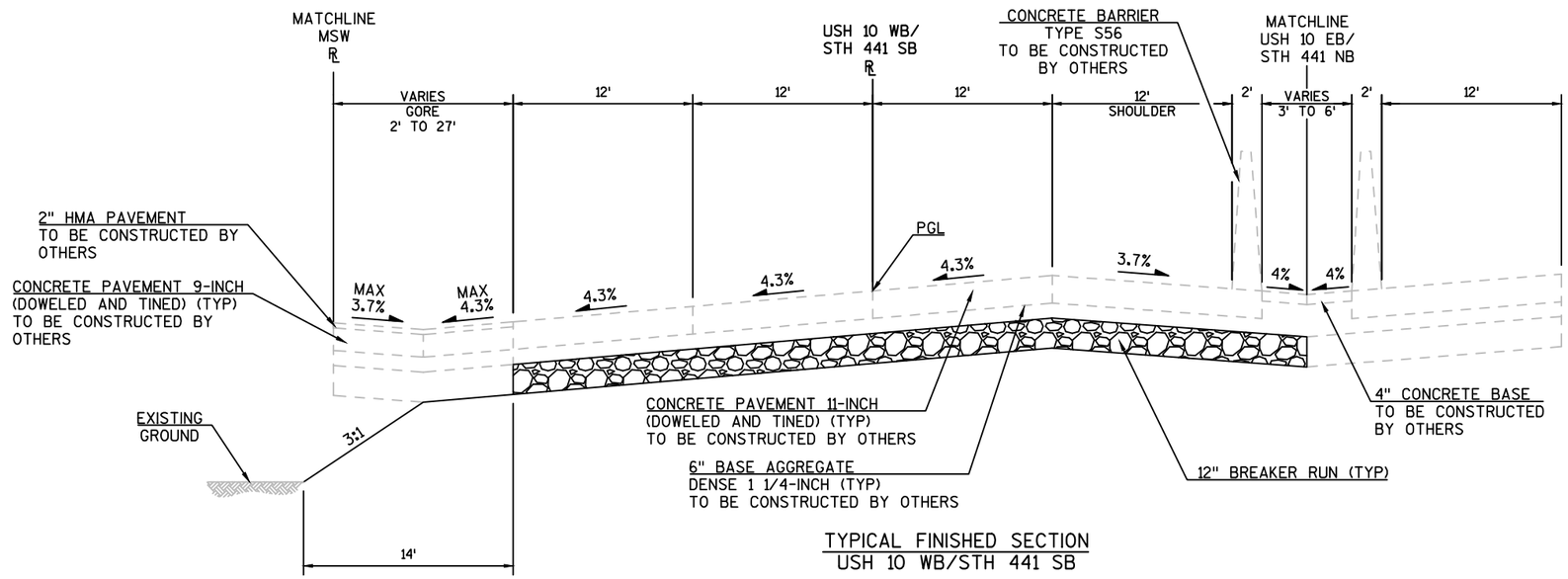
PROJECT NO: 1517-75-72	HWY: STH 441/USH 10	COUNTY: WINNEBAGO	TYPICAL SECTIONS	SHEET 25	E



TYPICAL FINISHED SECTION
USH 10 WB/STH 441 SB

STA 222WB+31.60 TO STA 226WB+58.92

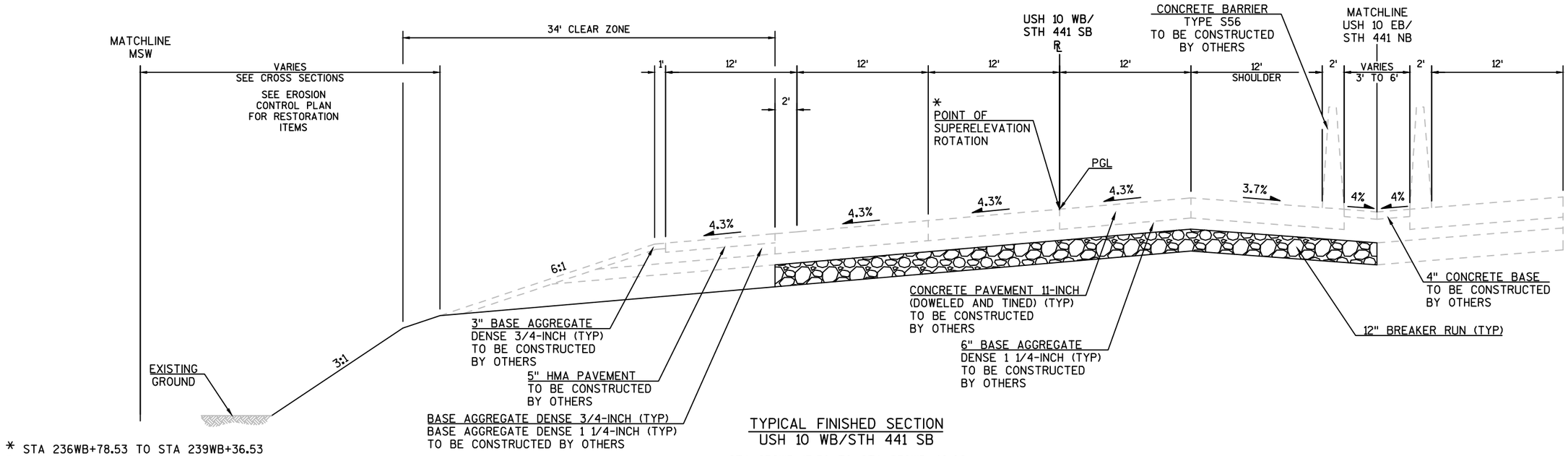
STA 224WB+88.22 TO STA 226WB+58.92



TYPICAL FINISHED SECTION
USH 10 WB/STH 441 SB

STA 226WB+58.92 TO STA 232WB+17.58

PROJECT NO: 1517-75-72	HWY: STH 441/USH 10	COUNTY: WINNEBAGO	TYPICAL SECTIONS	SHEET 26	E

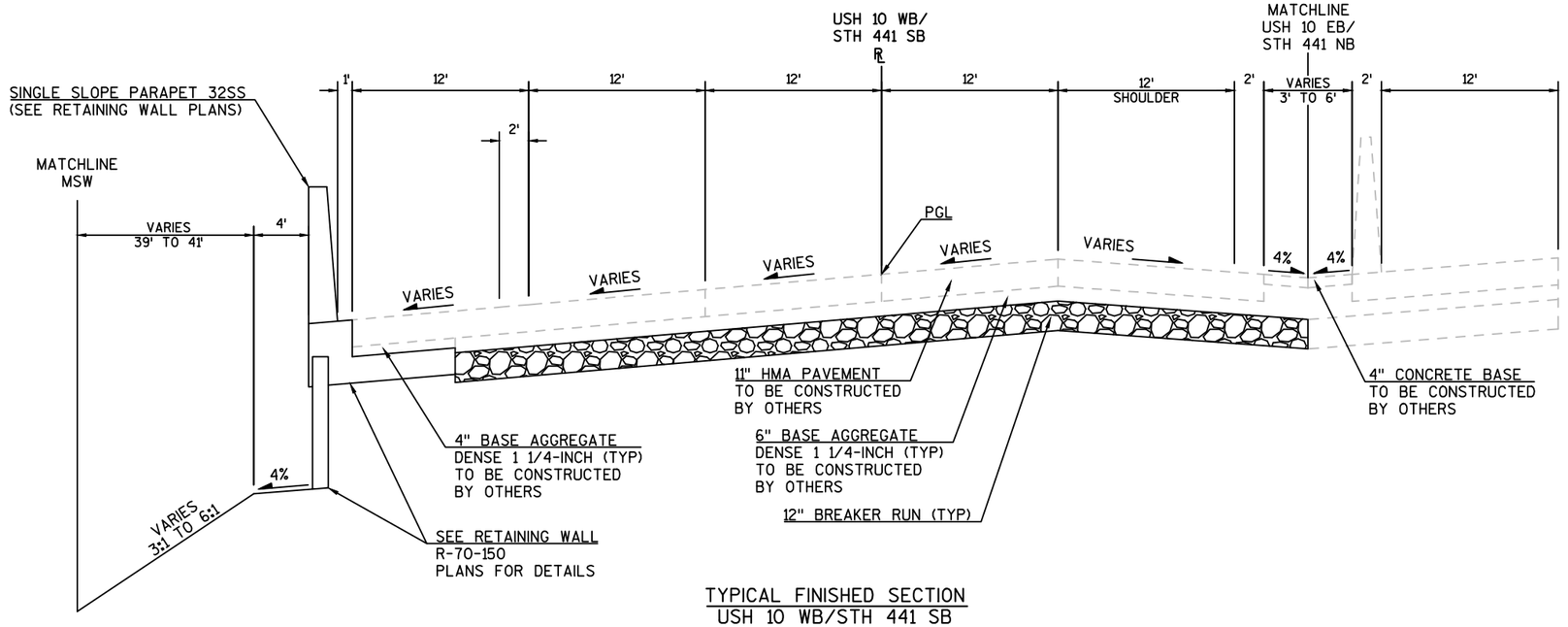


TYPICAL FINISHED SECTION
USH 10 WB/STH 441 SB

STA 232WB+17.58 TO STA 239WB+40.00

* STA 236WB+78.53 TO STA 239WB+36.53
FULL SUPER TO LEVEL CROWN

* STA 239WB+36.53 TO STA 242WB+96.53
LEVEL CROWN TO FULL SUPER

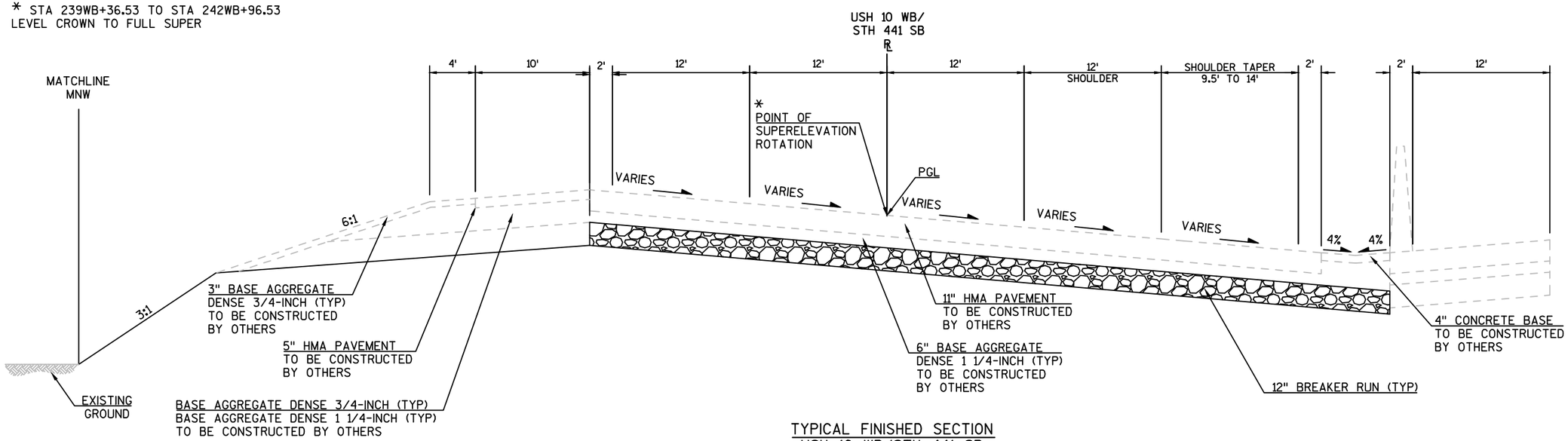


TYPICAL FINISHED SECTION
USH 10 WB/STH 441 SB

STA 239WB+40.00 TO STA 240WB+20.45

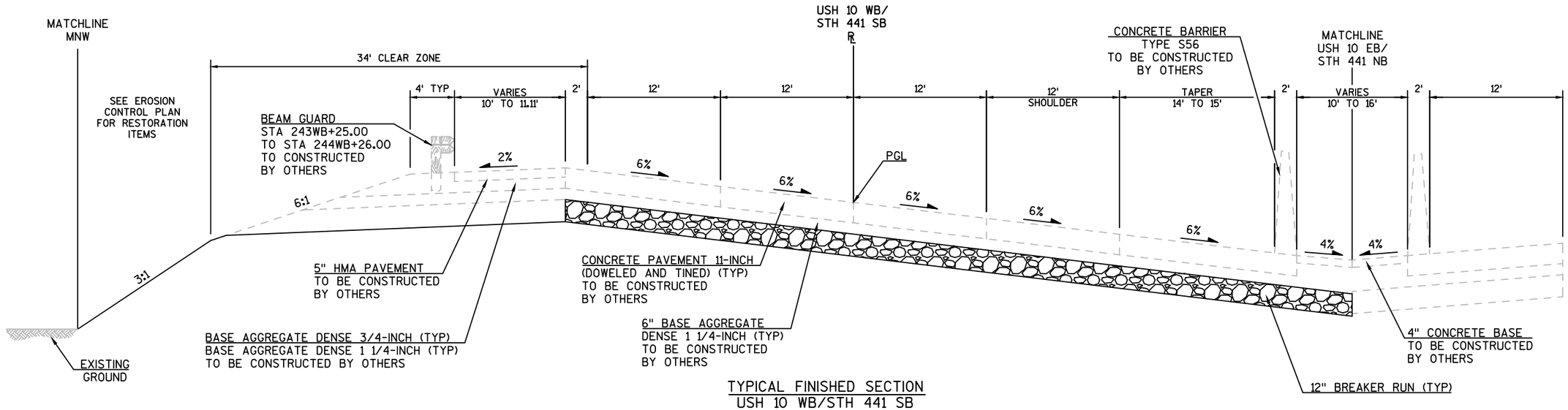
PROJECT NO: 1517-75-72	HWY: STH 441/USH 10	COUNTY: WINNEBAGO	TYPICAL SECTIONS	SHEET 27	E

* STA 239WB+36.53 TO STA 242WB+96.53
LEVEL CROWN TO FULL SUPER



TYPICAL FINISHED SECTION
USH 10 WB/STH 441 SB

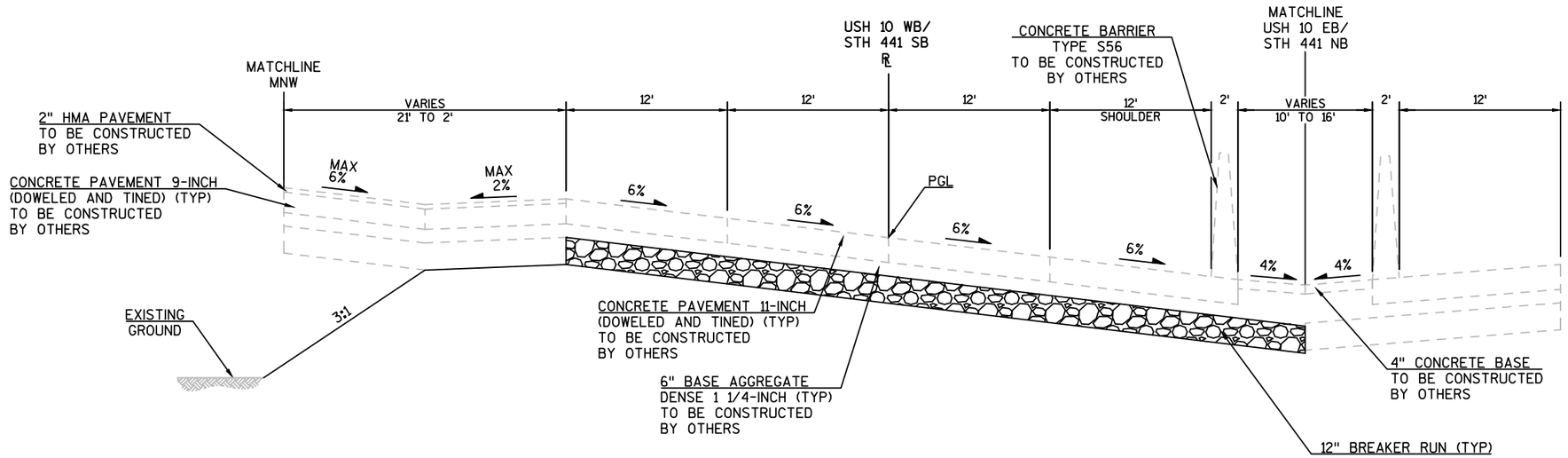
STA 241WB+99.15 TO STA 243WB+25.00



TYPICAL FINISHED SECTION
USH 10 WB/STH 441 SB

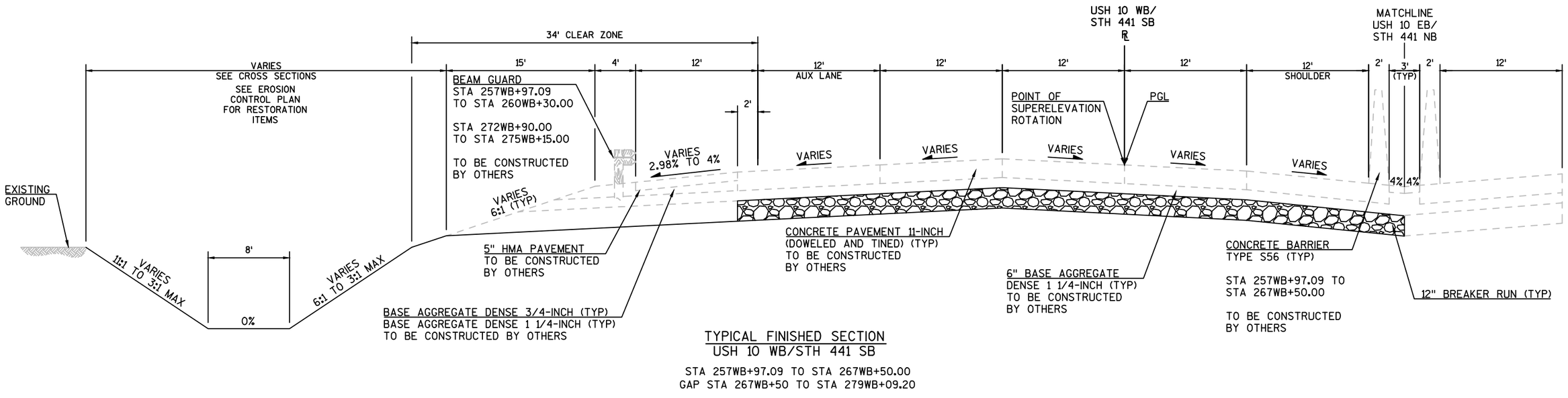
STA 243WB+25.00 TO STA 255WB+96.10

PROJECT NO: 1517-75-72	HWY: STH 441/USH 10	COUNTY: WINNEBAGO	TYPICAL SECTIONS	SHEET 28	E



TYPICAL FINISHED SECTION
USH 10 WB/STH 441 SB

STA 255WB+96.10 TO STA 257WB+97.09



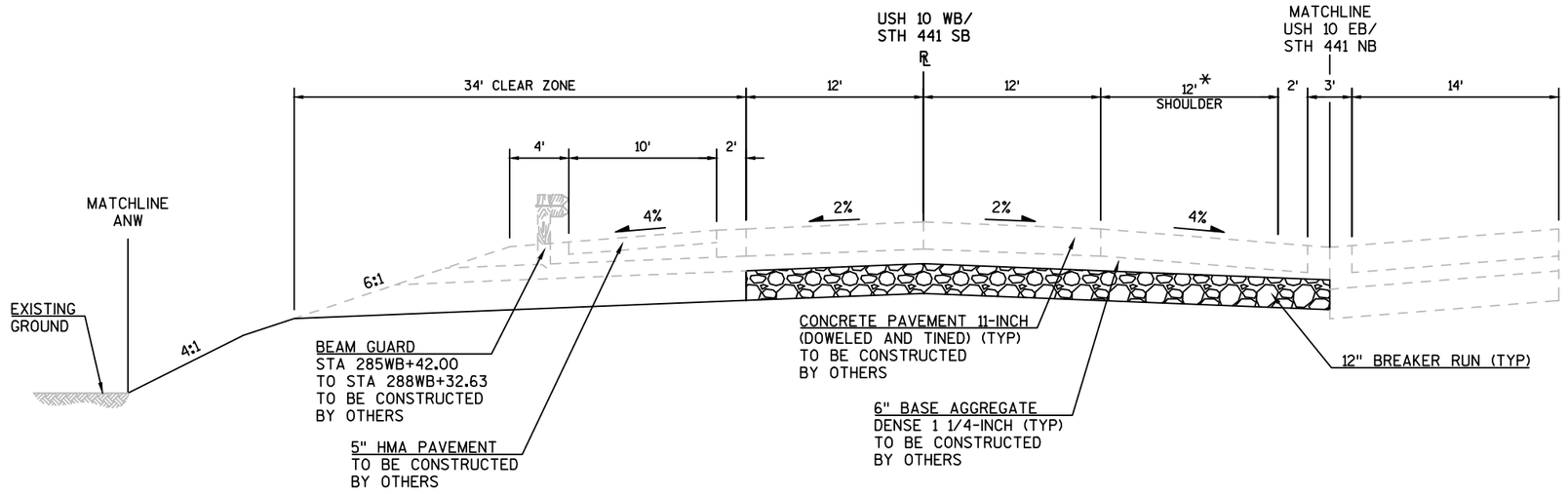
TYPICAL FINISHED SECTION
USH 10 WB/STH 441 SB

STA 257WB+97.09 TO STA 267WB+50.00
GAP STA 267WB+50 TO STA 279WB+09.20

PROJECT NO: 1517-75-72	HWY: STH 441/USH 10	COUNTY: WINNEBAGO	TYPICAL SECTIONS	SHEET 29	E

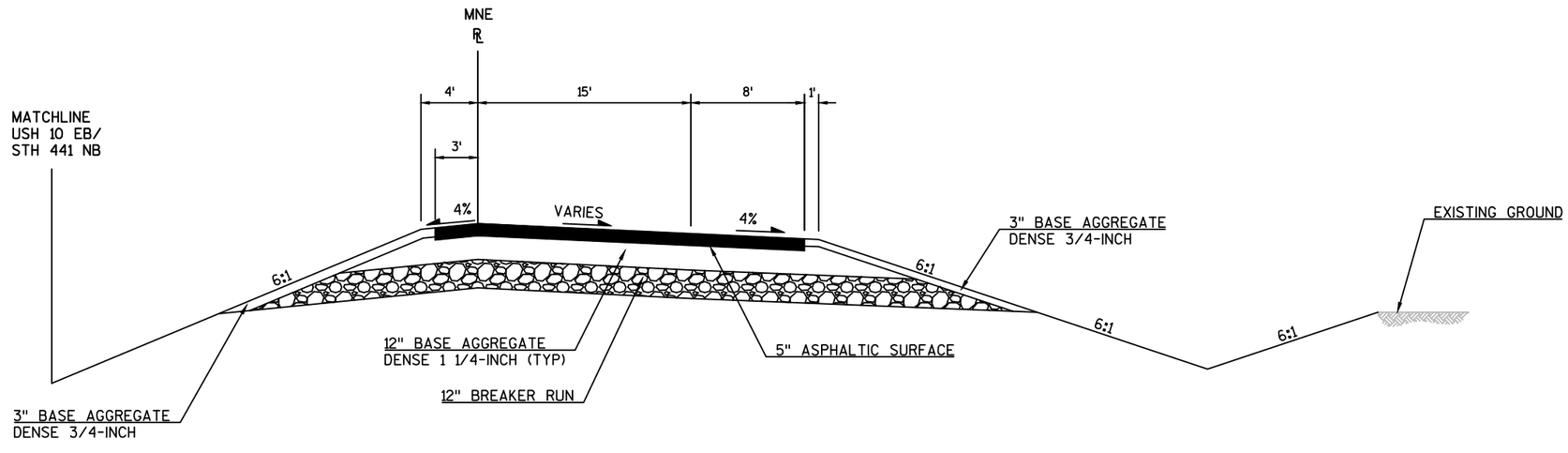
2

* MAINTAIN A MINIMUM THICKNESS OF 4" BASE AGGREGATE DENSE 1 1/4-INCH



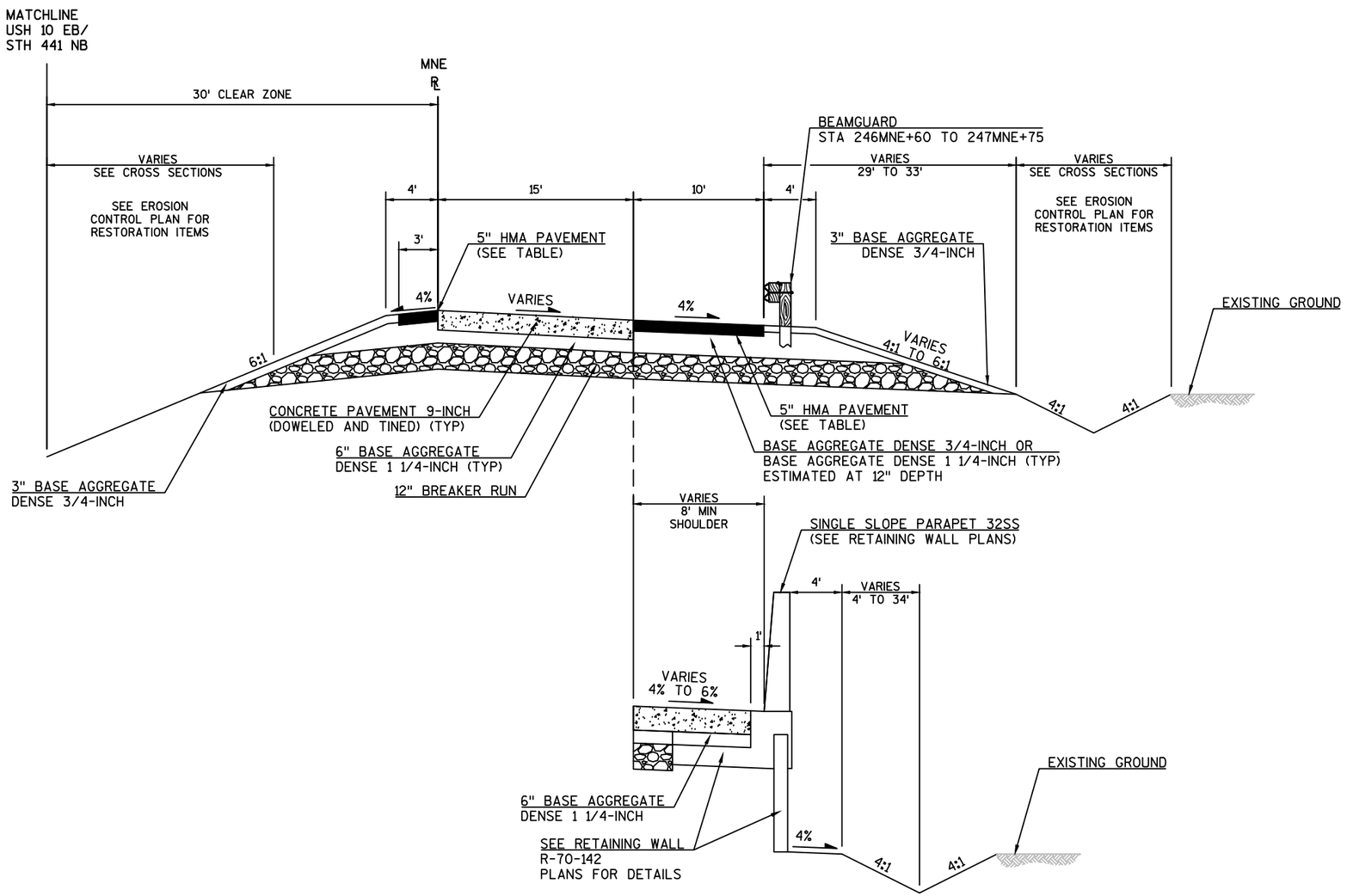
TYPICAL FINISHED SECTION
USH 10 WB/STH 441 SB

STA 276WB+62.73 TO STA 288WB+32.63
STA 279WB+09.20 TO STA 288WB+32.63



TYPICAL FINISHED SECTION
MIDWAY ROAD NE RAMP

STA 242MNE+53.51 TO STA 244MNE+50.00



STA 247MNE+75.00 TO STA 254MNE+19.19

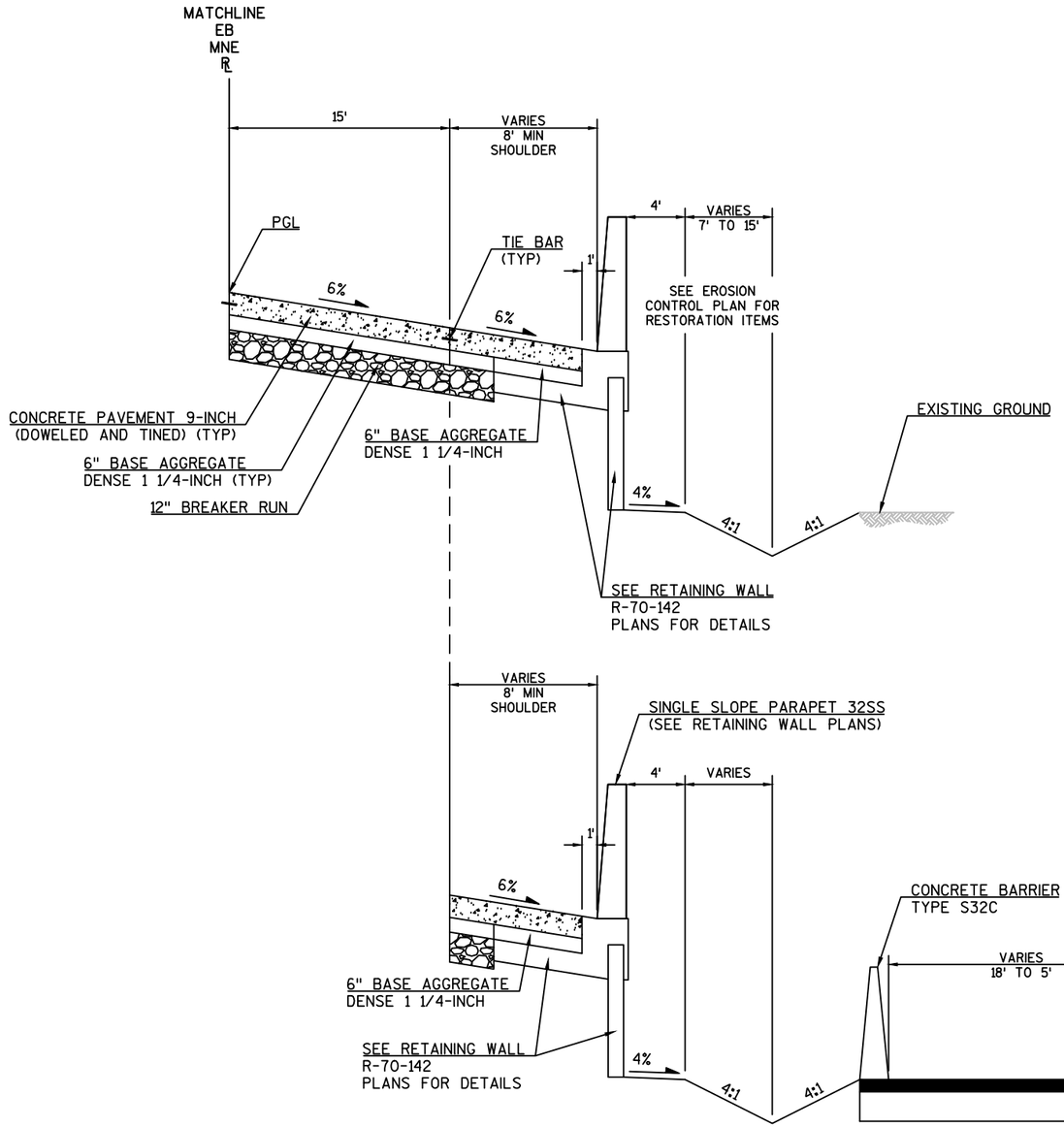
CONSTRUCT HMA PAVEMENT WITH THE
FOLLOWING LAYERS AND GRADATIONS

LAYERS	TOTAL LAYER PAVEMENT THICKNESS	PAVEMENT TYPE
2" UPPER LAYER	2"	4LT 58-28 S
1 ¾" UPPER LAYER 3 ¼" LOWER LAYER	5"	4LT 58-28 S 3 LT-58-28 S

TYPICAL FINISHED SECTION

MIDWAY ROAD NE RAMP

STA 244MNE+50.00 TO STA 254MNE+19.19



STA 255+MNE+06.11 - STA 257MNE+26.85

TYPICAL FINISHED SECTION

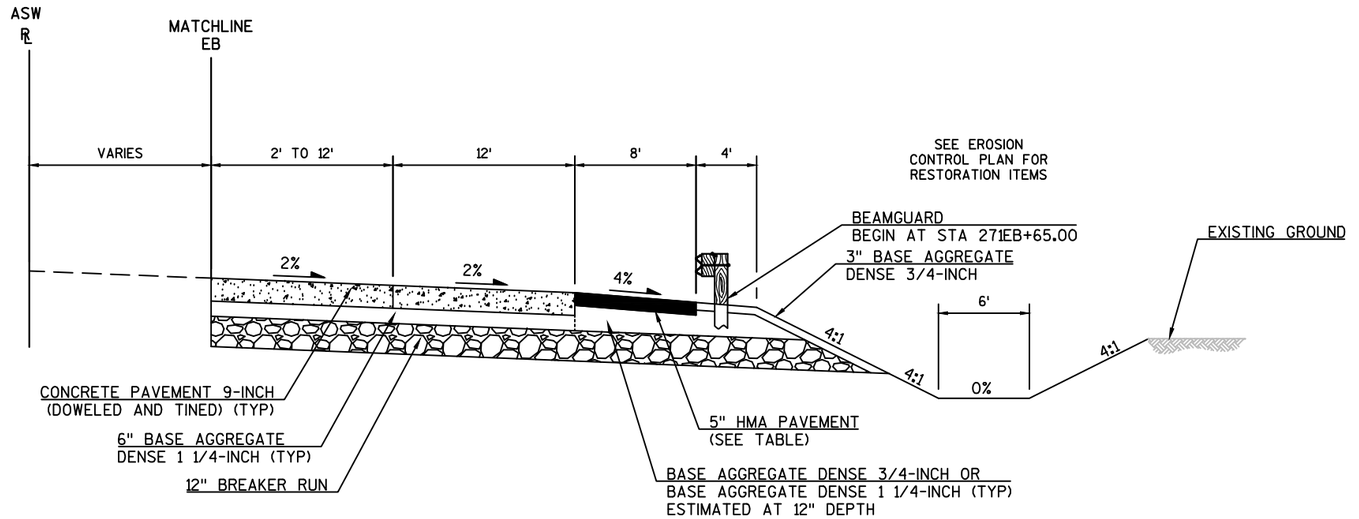
MIDWAY ROAD NE RAMP

STA 254MNE+19.19 TO STA 257MNE+48.49

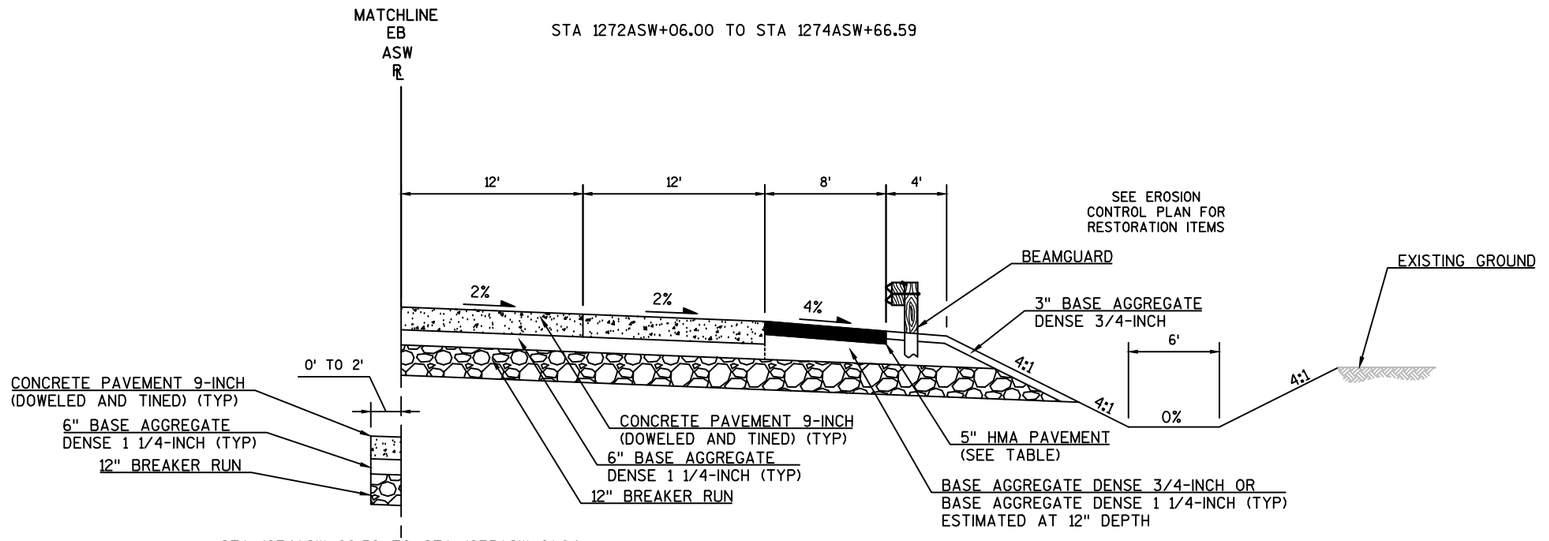
CONSTRUCT HMA PAVEMENT WITH THE FOLLOWING LAYERS AND GRADATIONS

LAYERS	TOTAL LAYER PAVEMENT THICKNESS	PAVEMENT TYPE
2" UPPER LAYER	2"	4LT 58-28 S
1 ¾" UPPER LAYER 3 ¼" LOWER LAYER	5"	4LT 58-28 S 3 LT-58-28 S

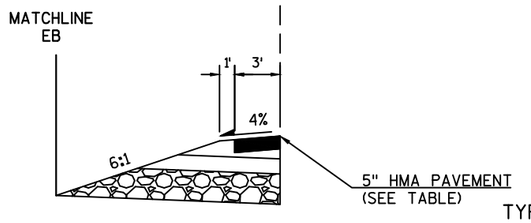
FILE NAME : S:\PDS\C3D\WIS441\15177570_72_77_85\SHEETSPLAN\1517-75-72\020300-TS\NE-15177572-020302-TS.DWG
LAYOUT NAME - 020302-ts16
PLOT DATE : 2/8/2017 10:21 AM PLOT BY : MARTENS, JOHN M PLOT NAME : PLOT SCALE : 1 IN:10 FT
WISDOT/CADDS SHEET 42



STA 1272ASW+06.00 TO STA 1274ASW+66.59



STA 1274ASW+66.59 TO STA 1275ASW+01.84



STA 1277ASW+62.14 TO STA 1278ASW+50.00

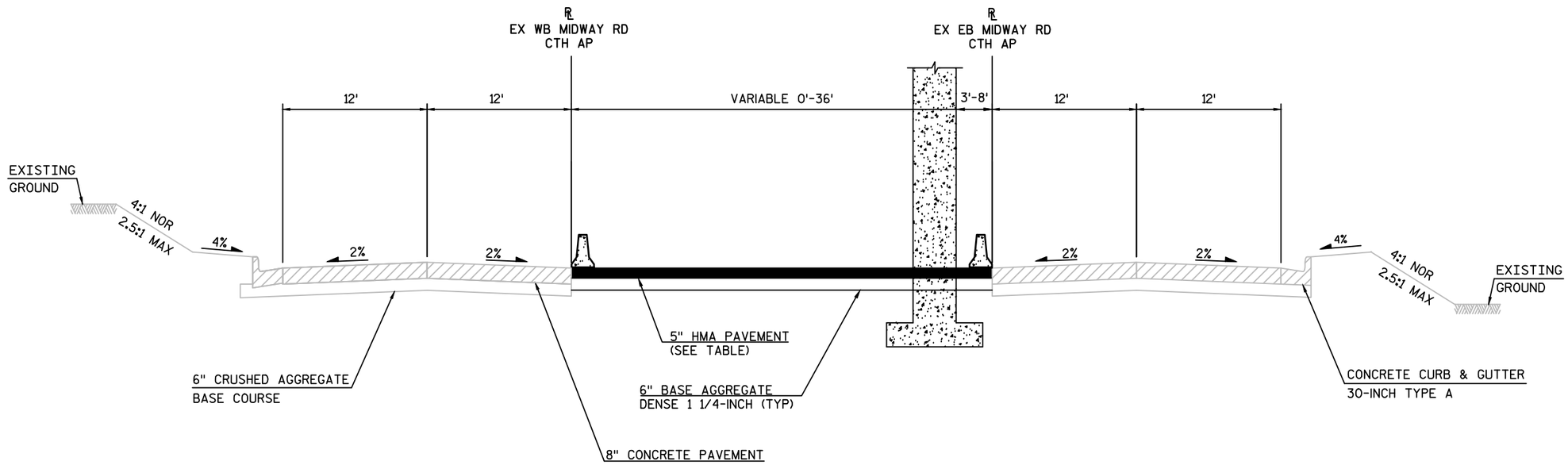
TYPICAL FINISHED SECTION

ASW RAMP

STA 1274ASW+66.59 TO STA 1278ASW+50.00

CONSTRUCT HMA PAVEMENT WITH THE
FOLLOWING LAYERS AND GRADATIONS

LAYERS	TOTAL LAYER PAVEMENT THICKNESS	PAVEMENT TYPE
2" UPPER LAYER	2"	4LT 58-28 S
1 ¾" UPPER LAYER 3 ¼" LOWER LAYER	5"	4LT 58-28 S 3 LT-58-28 S



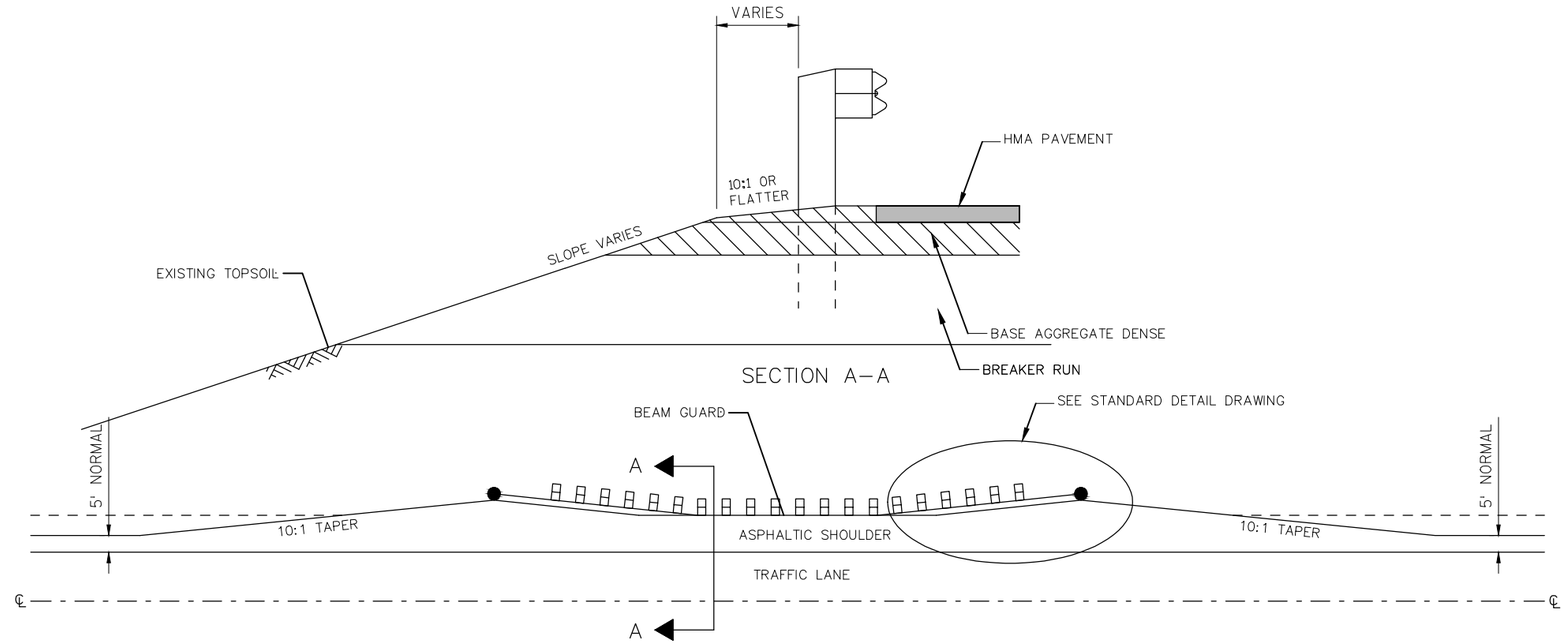
TYPICAL FINISHED SECTION
MIDWAY ROAD (CTH AP)

STA 15MEB+00 TO STA 25MEB+00
STA 17MEB+73.50 TO STA 21MEB+80.53
STA 17MWB+93.14 TO STA 21MWB+51.43

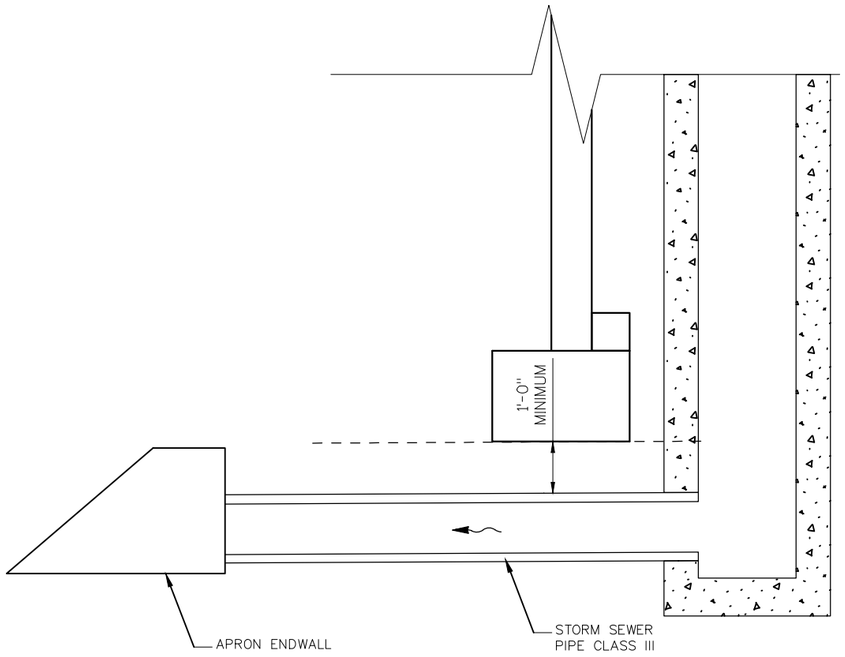
CONSTRUCT HMA PAVEMENT WITH THE FOLLOWING LAYERS AND GRADATIONS

LAYERS	TOTAL LAYER PAVEMENT THICKNESS	PAVEMENT TYPE
2" UPPER LAYER	2"	4LT 58-28 S
1 ¾" UPPER LAYER 3 ¼" LOWER LAYER	5"	4LT 58-28 S 3 LT-58-28 S

2



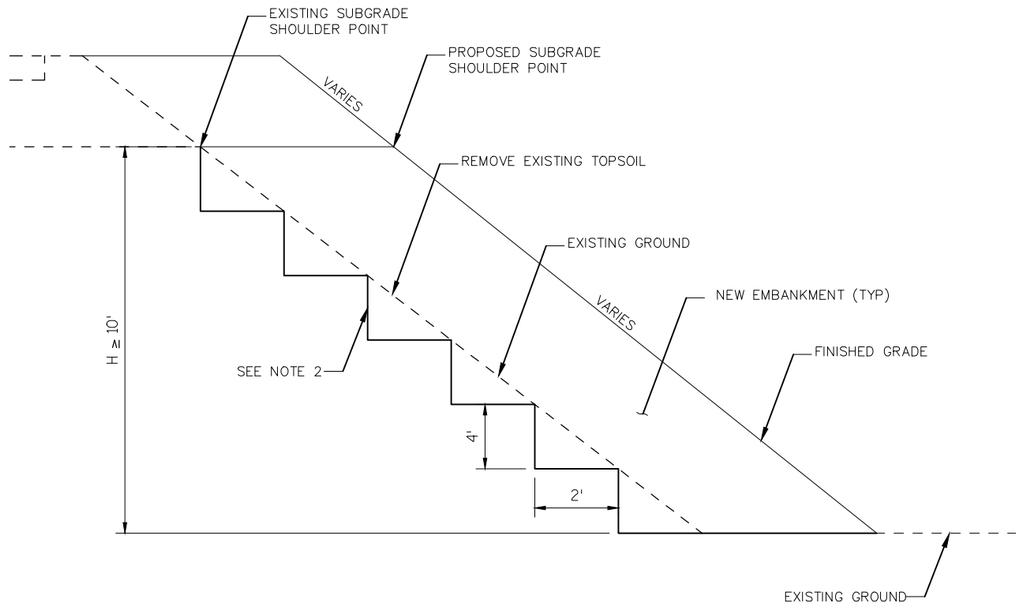
DETAIL FOR ASPHALTIC SHOULDER AT GUARDRAIL



OUTFALL DISCHARGE UNDER RETAINING WALL

NOTES: (1) SEE STORM SEWER PLANS FOR ACTUAL DISCHARGE LOCATION

(2) SEE RETAINING WALL PLANS FOR ADDITIONAL INFORMATION ON FILL MATERIAL BETWEEN RETAINING WALL FOOTING & PIPE.



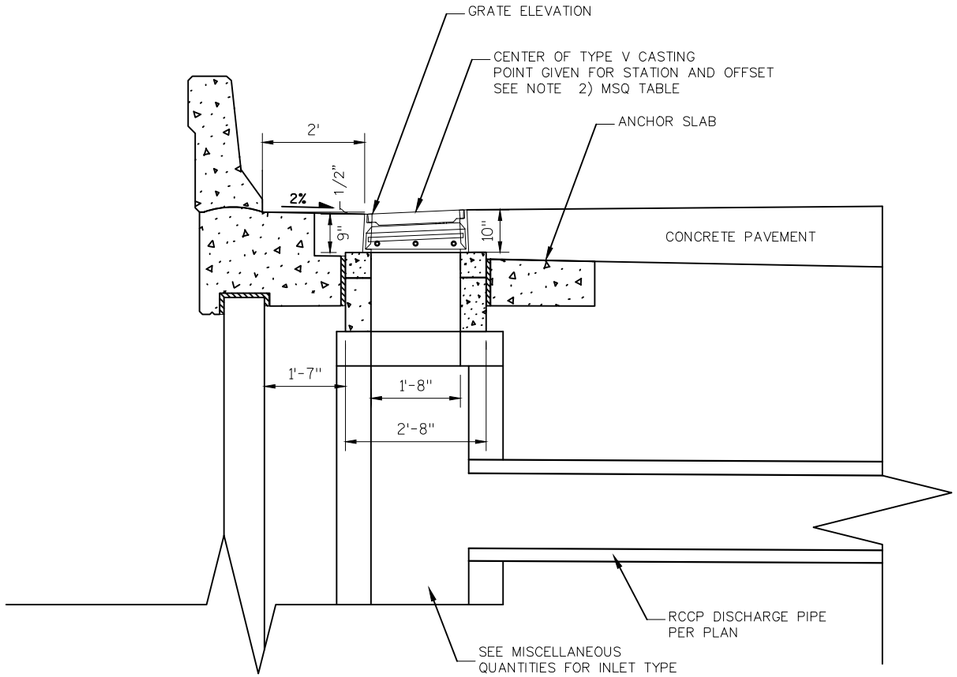
STEPPED EMBANKMENT

NOTES:

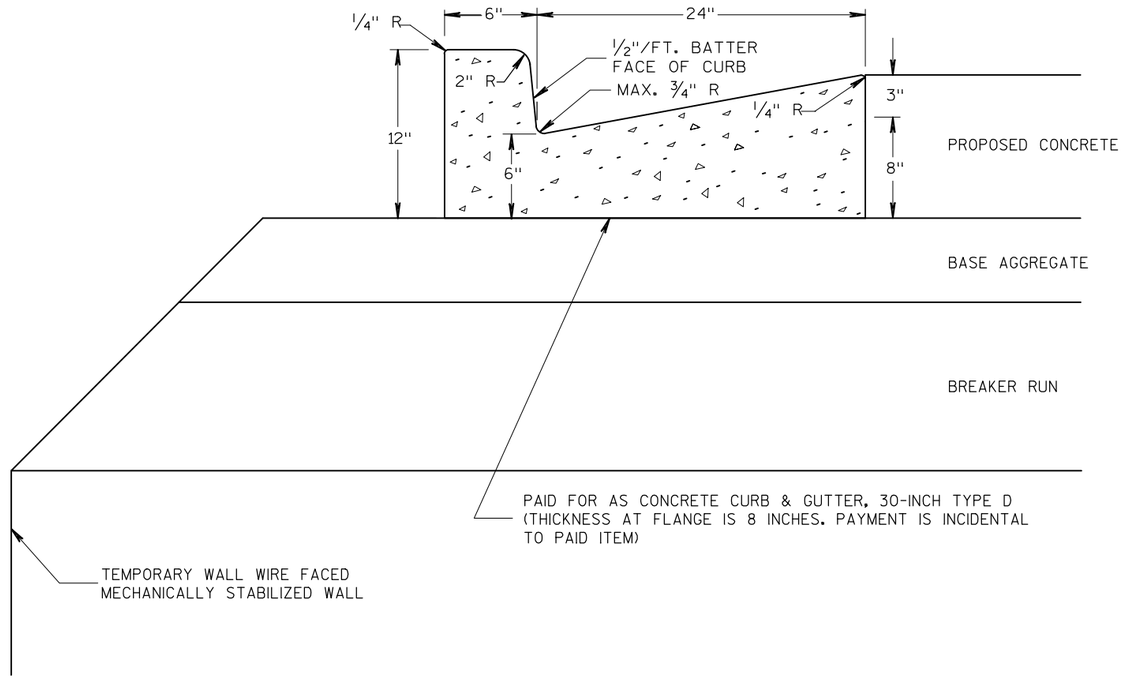
1) EMBANKMENT PLACED IN LAYERS AND COMPACTED PER SPECIFICATIONS

2) BENCH AS REQUIRED TO FACILITATE CONSTRUCTION FILLING OPERATIONS (4' BENCH DEPTH, INCIDENTAL).

3) EBS AS REQUIRED IN THE PLANS OR DIRECTED BY THE ENGINEER SHALL BE PAID UNDER THE ITEM "EXCAVATION COMMON".

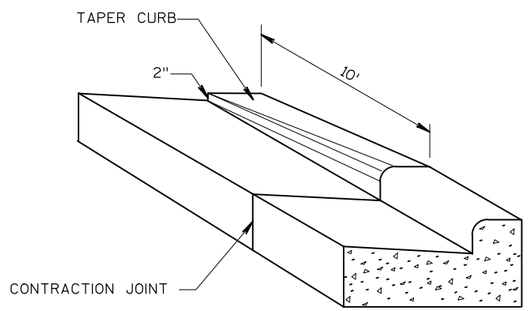


INLET PLACEMENT AT RETAINING WALL



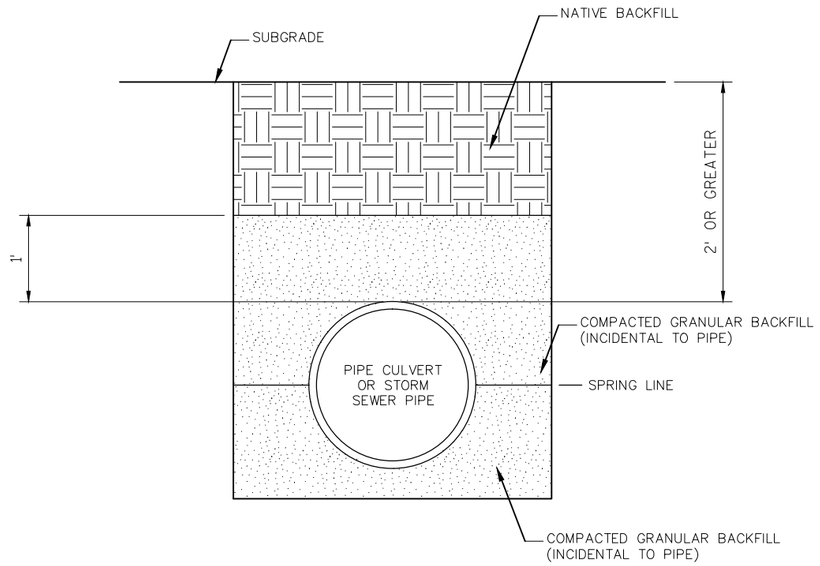
TEMPORARY CONCRETE CURB AND GUTTER

STA 225EB+60 – STA 235EB+11



DETAIL OF CURB & GUTTER TERMINI

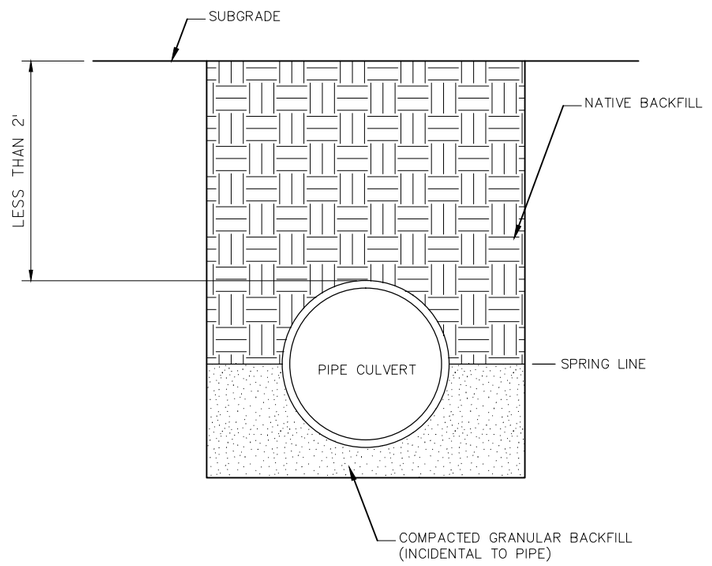
STA 225EB+60 – STA 225EB+70



TRENCH BACKFILL DETAIL FOR NORMAL DEPTH PIPE CULVERTS
AND STORM SEWER PIPE INSTALLATIONS

NOTES:

(1) NATIVE BACKFILL SHALL BE FREE OF
LARGE LUMPS, CLODS, OR ROCK.

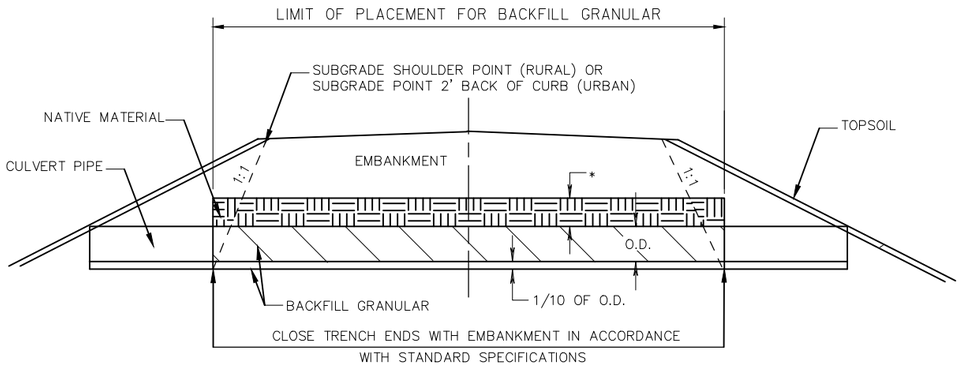


TRENCH BACKFILL DETAIL FOR SHALLOW PIPE CULVERTS

NOTES:

(1) NATIVE BACKFILL SHALL BE FREE OF
LARGE LUMPS, CLODS, OR ROCK.

2

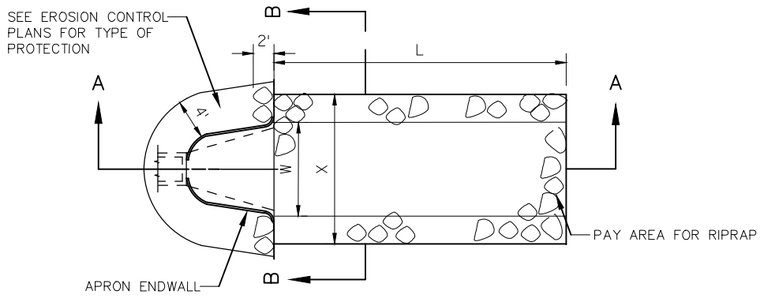


CULVERT BACKFILL DETAIL

NOTES:

OD = OUTSIDE DIAMETER

* CULVERT PIPE IN NEW EMBANKMENT = 1' MIN
* CULVERT PIPE IN EXISTING EMBANKMENT = TO EXISTING GROUND ELEVATION



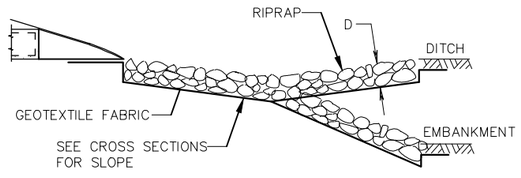
PLAN VIEW

L = 3 x W (NOR.) OR 10' MIN. OR AS INDICATED IN THE PLANS OR AS DIRECTED BY THE ENGINEER.

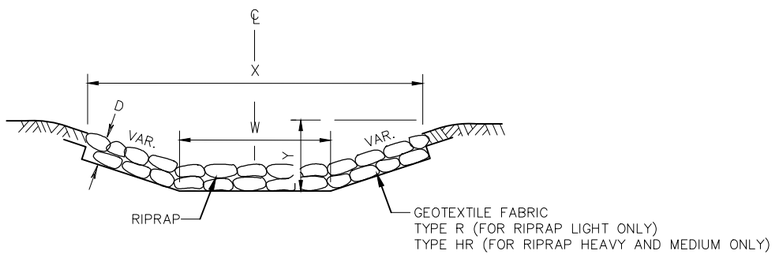
D = 12" FOR RIPRAP LIGHT
18" FOR RIPRAP MEDIUM
24" FOR RIPRAP HEAVY

X = W+2' FOR TYPICAL CULVERT DISCHARGE INTO DITCH
W+5' FOR CULVERT DISCHARGE DOWN EMBANKMENT SLOPE

Y = 0' FOR TYPICAL CULVERT DISCHARGE INTO DITCH
12" FOR CULVERT DISCHARGE DOWN EMBANKMENT SLOPE



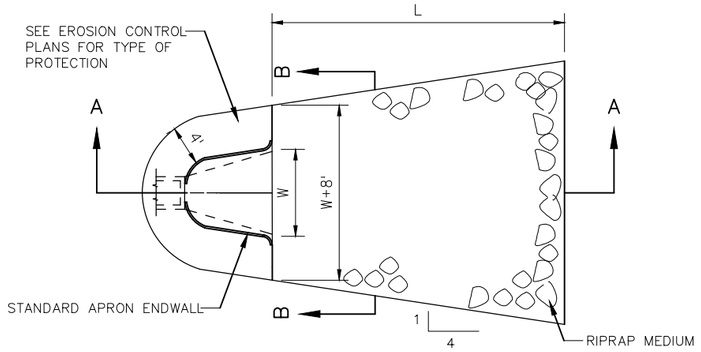
SECTION A–A



SECTION B–B

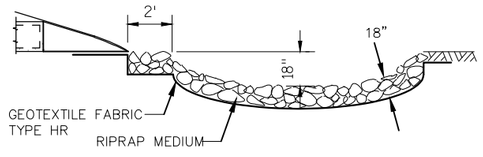
RIPRAP AND GEOTEXTILE FABRIC DETAIL AT APRON ENDWALLS

SEE EROSION CONTROL PLAN FOR LOCATIONS

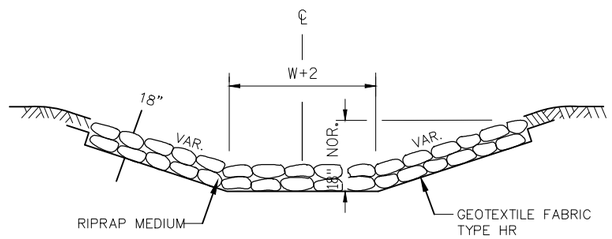


PLAN VIEW

L = 3 x W (NOR.) OR 10' MIN. OR AS INDICATED IN THE PLANS OR AS DIRECTED BY THE ENGINEER.

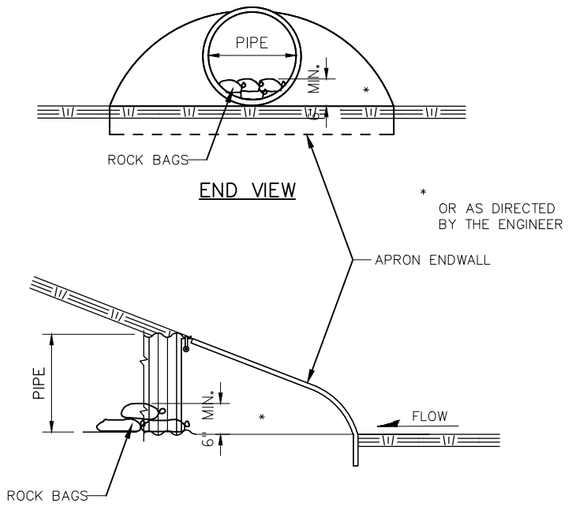


SECTION A–A



SECTION B–B

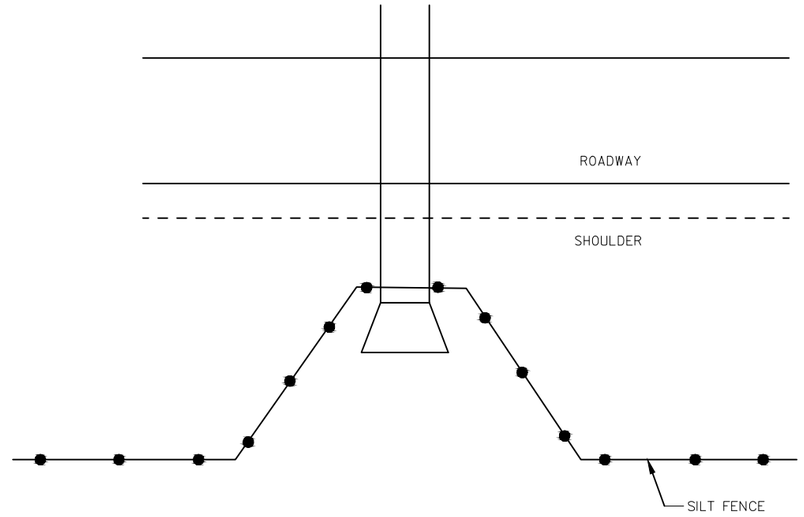
RIPRAP AND GEOTEXTILE FABRIC DETAIL AT POND OUTFALL ENDWALLS



SIDE VIEW

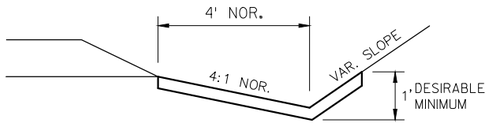
CULVERT PIPE CHECKS

AT INLET LOCATIONS

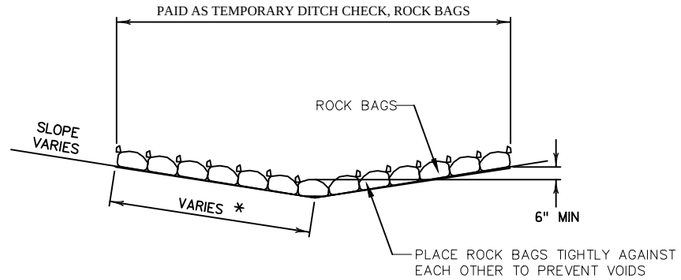


TYPICAL SILT FENCE DETAIL AT PIPE INLET

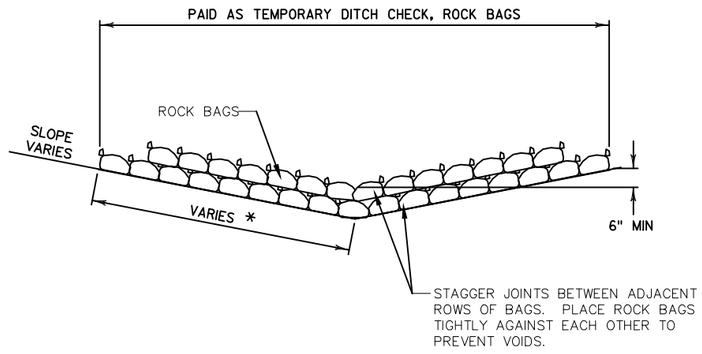
NOTE:
FOR FURTHER DETAIL SEE
SILT FENCE DETAIL SDD



SOD OR EROSION MAT DETAIL FOR DITCHES



SIDE VIEW (SINGLE LAYER)

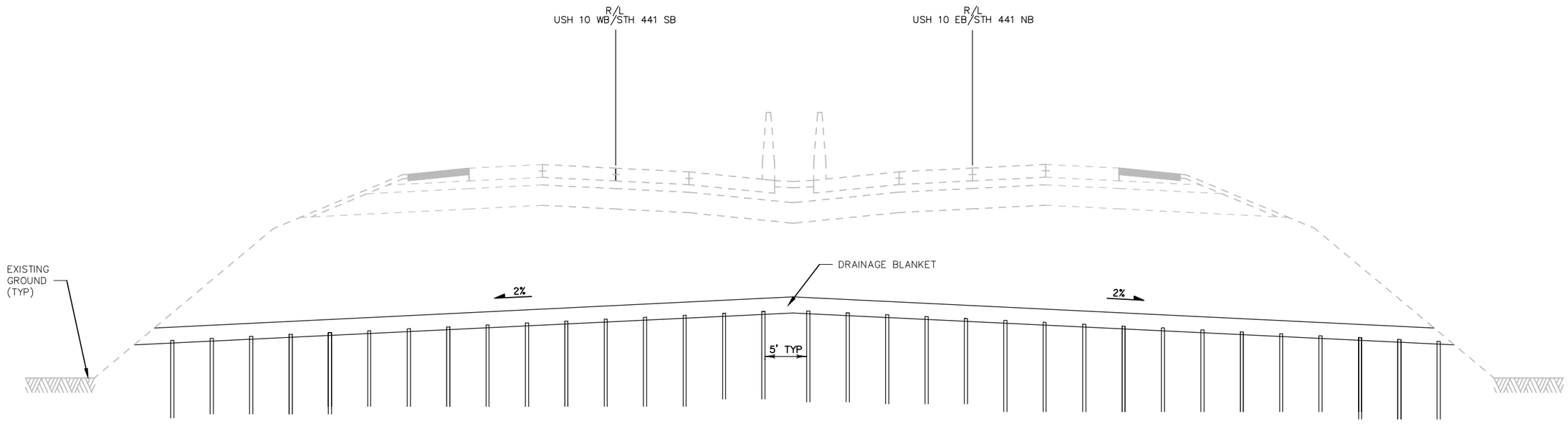


* LENGTH AND NUMBER OF BAGS MAY VARY DEPENDING ON DESIRED DEPTH OF WATER POOL.

SIDE VIEW (DOUBLE LAYER)

TEMPORARY DITCH CHECK, ROCK BAGS, SINGLE LAYER AND DOUBLE LAYER

2

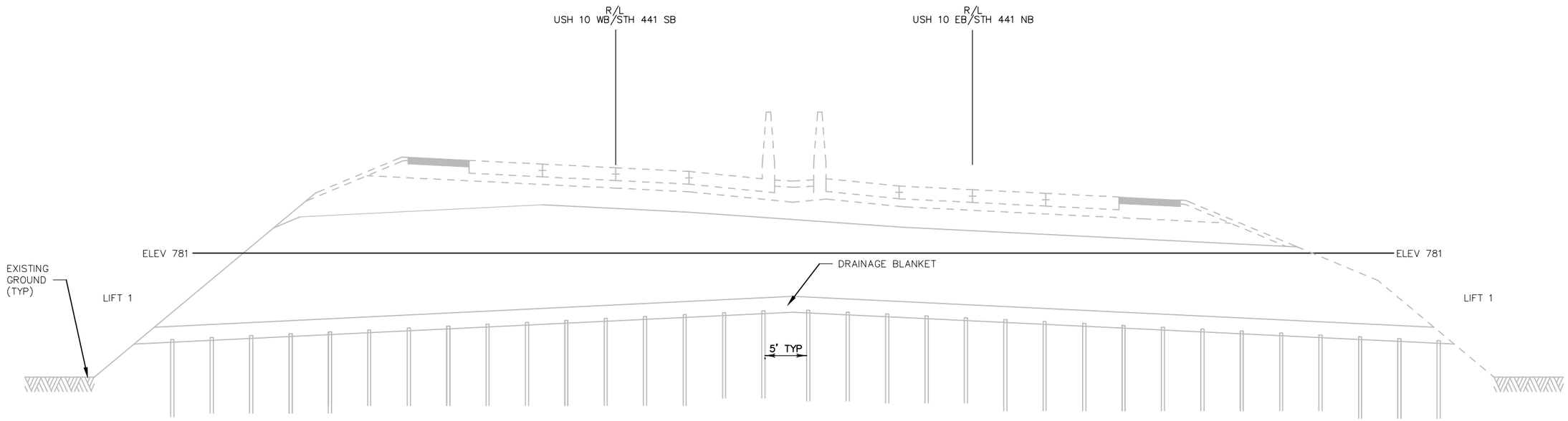


GENERAL STRIP DRAIN SECTION

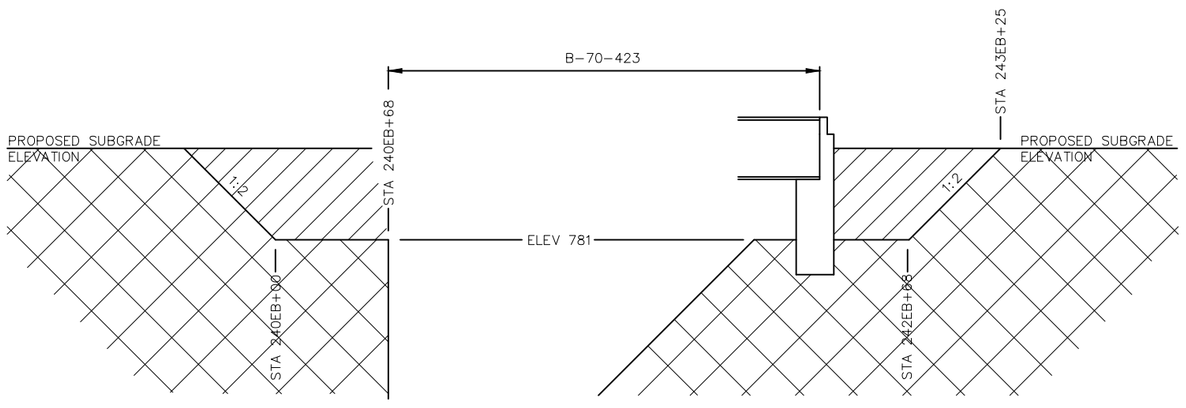
PROJECT NO: 1517-75-72	HWY: STH 441/USH 10	COUNTY: WINNEBAGO	CONSTRUCTION DETAIL	SHEET 43	E

FILE NAME : S:\PDS\C3D\WIS441\15177570_72_77_85\SHEETSPLAN\1517-75-72\021000-CD\NE-15177572-02100-CD.DWG
LAYOUT NAME - NE-15177572-02100-CD - 021009-CD
PLOT DATE : 4/11/2017 6:45 AM PLOT BY : MARTENS, JOHN M PLOT NAME : PLOT SCALE : 1 IN:200 FT

2



EARTHWORK LIMITS FOR FILL PLACEMENT WITH LIFTS



LONGITUDINAL SECTION FOR FILL PLACEMENT STAGE 1A EB ROADWAY

FOR STAGE 1A EB ROADWAY:

STA 228EB+00 TO STA 240EB+00
PLACE FILL TO PROPOSED SUBGRADE

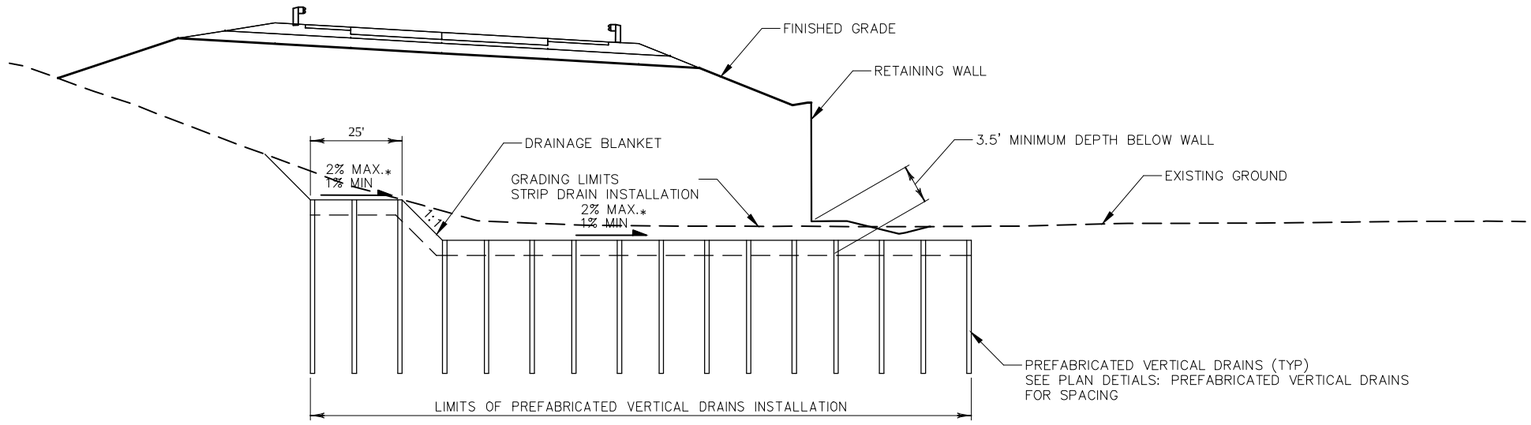
STA 240EB+00 TO STA 243EB+25
PLACE FILL IN TWO LIFTS ALLOWING FOR A 60 DAY SETTLEMENT PERIOD BETWEEN LIFTS

STA 243EB+25 TO STA 260EB+00
PLACE FILL TO PROPOSED SUBGRADE

FOR STAGE 1A WB ROADWAY
AND STAGE 1B THROUGH STAGE 2B:

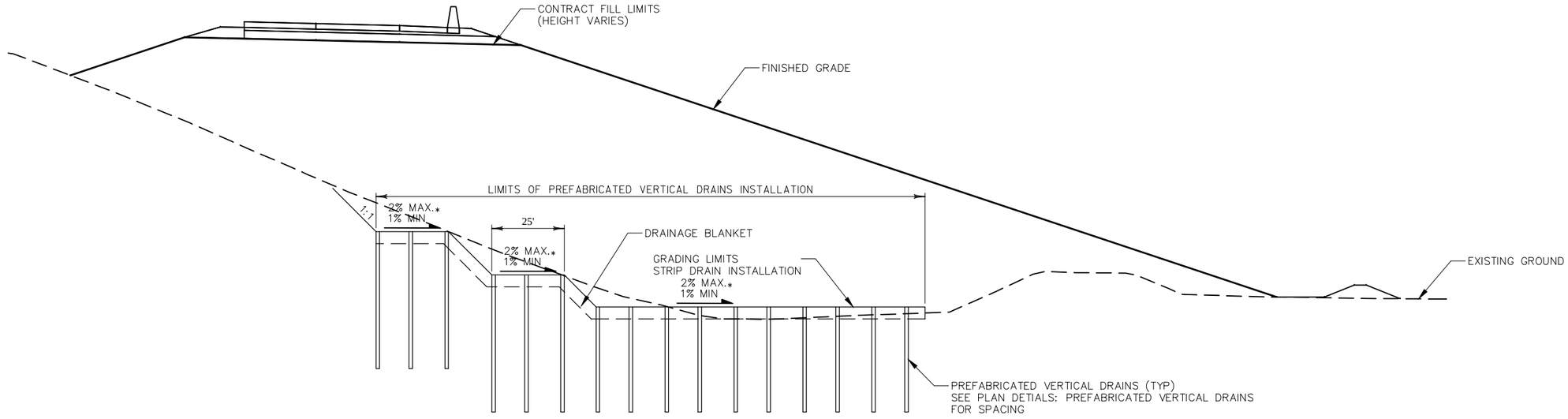
PLACE FILL ACCORDING TO LIFTS AS NOTED IN THE EARTHWORK TABLE
ALLOWING FOR A 9 WEEK SETTLEMENT PERIOD BETWEEN LIFTS

2



TYPICAL CROSS SECTION - PREFABRICATED VERTICAL DRAINS WITH STRUCTURE

NOT TO SCALE



* NUMBER OF STEPS VARIES DEPENDING ON EXISTING CONDITION AND LIMITS OF PREFABRICATED VERTICAL DRAINS INSTALLATION. SEE CROSS SECTIONS

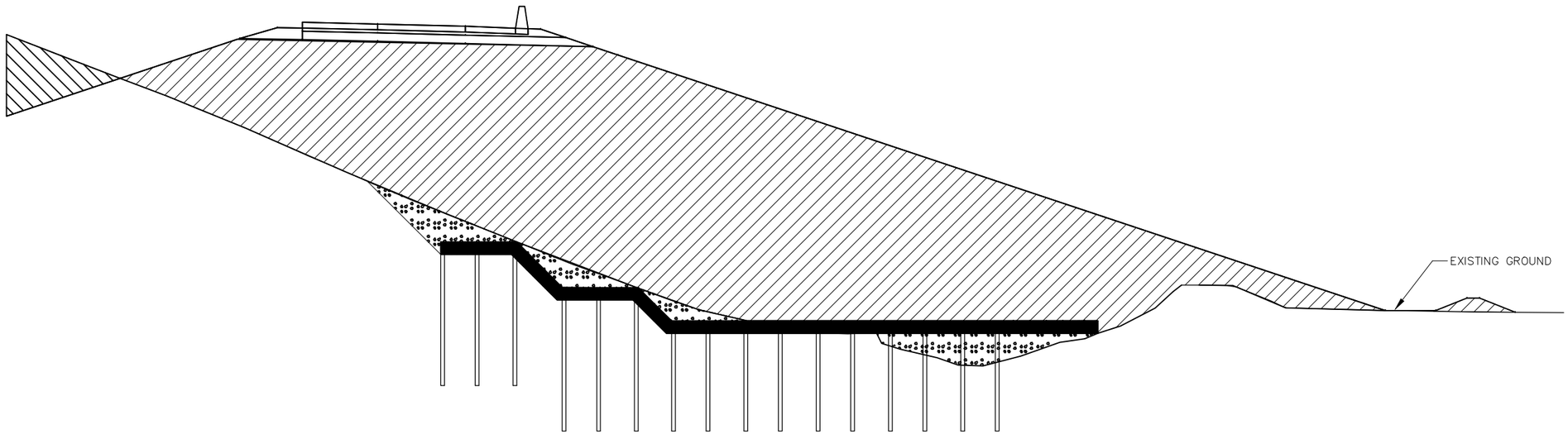
TYPICAL CROSS SECTION - PREFABRICATED VERTICAL DRAINS WITHOUT STRUCTURE

NOT TO SCALE

2

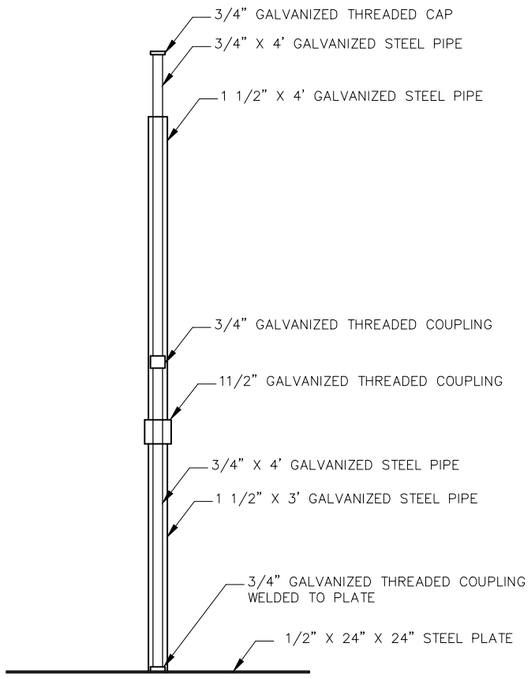
LEGEND

- ROADWAY EMBANKMENT
- EXCAVATION COMMON
- DRAINAGE BLANKET CUT (PAID FOR AS COMMON EXCAVATION, BACKFILL PAID FOR AS ROADWAY EMBANKMENT)
- DRAINAGE BLANKET

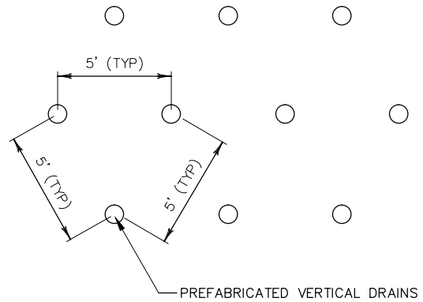


* NUMBER OF STEPS VARIES DEPENDING ON EXISTING CONDITION AND LIMITS OF PREFABRICATED VERTICAL DRAINS INSTALLATION. SEE CROSS SECTIONS

DETAIL FOR EARTHWORK MEASUREMENT AT FILL AREAS WITH PREFABRICATED VERTICAL DRAINS

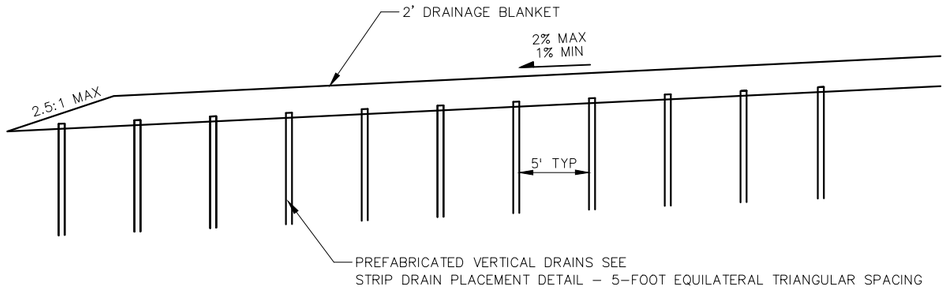


SETTLEMENT GAUGE DETAIL



PREFABRICATED VERTICAL DRAINS PLACEMENT DETAIL - 5-FOOT EQUILATERAL TRIANGULAR SPACING

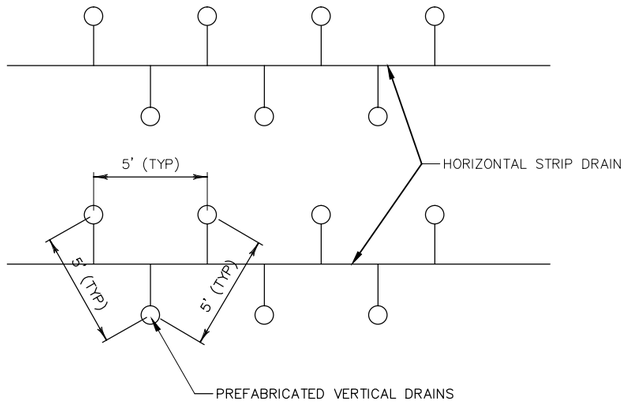
NOT TO SCALE



DRAINAGE BLANKET DETAIL - 5-FOOT EQUILATERAL TRIANGULAR SPACING

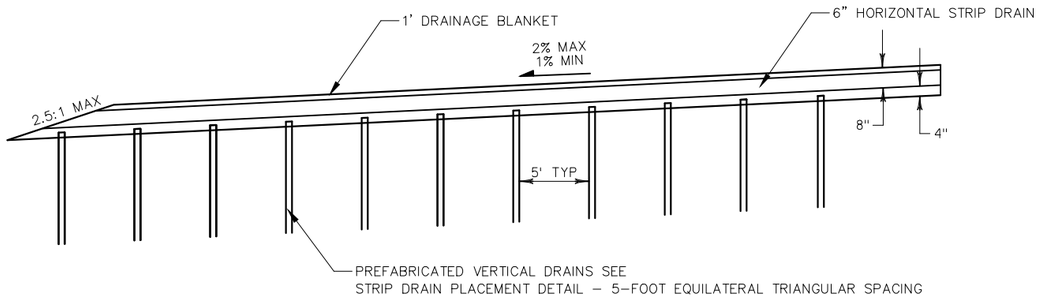
NOT TO SCALE

AREA 4



PREFABRICATED VERTICAL DRAINS PLACEMENT DETAIL - 5-FOOT EQUILATERAL TRIANGULAR SPACING

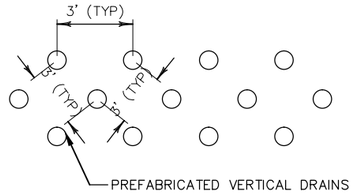
NOT TO SCALE



DRAINAGE BLANKET DETAIL - 5-FOOT EQUILATERAL TRIANGULAR SPACING

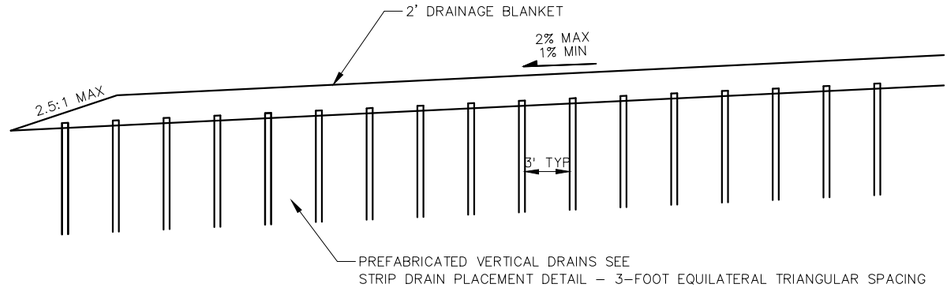
NOT TO SCALE

AREA 1, AREA 5, AREA 6, AREA 7, AREA 8 AND AREA 9



PREFABRICATED VERTICAL DRAINS PLACEMENT DETAIL – 3–FOOT EQUILATERAL TRIANGULAR SPACING

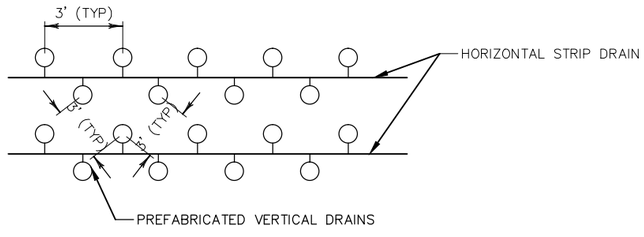
NOT TO SCALE



DRAINAGE BLANKET DETAIL – 3–FOOT EQUILATERAL TRIANGULAR SPACING

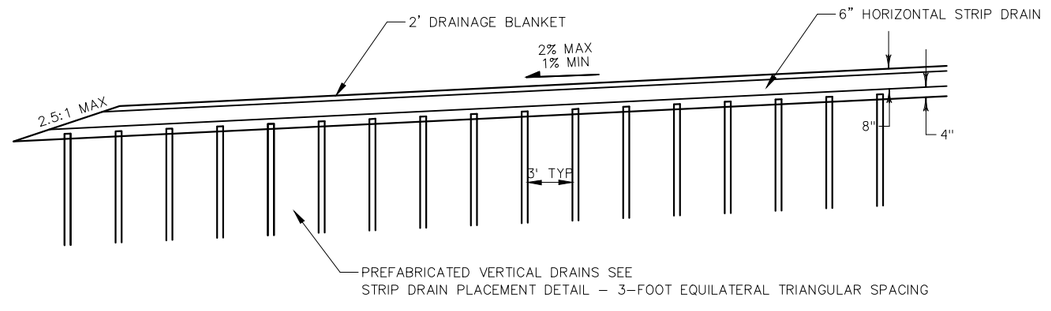
NOT TO SCALE

AREA 3



PREFABRICATED VERTICAL DRAINS PLACEMENT DETAIL – 3–FOOT EQUILATERAL TRIANGULAR SPACING

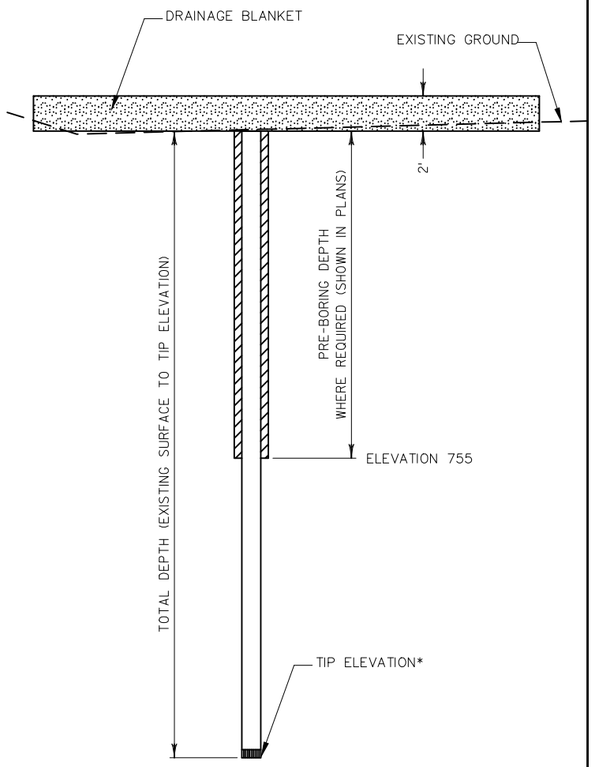
NOT TO SCALE



DRAINAGE BLANKET DETAIL – 3–FOOT EQUILATERAL TRIANGULAR SPACING

NOT TO SCALE

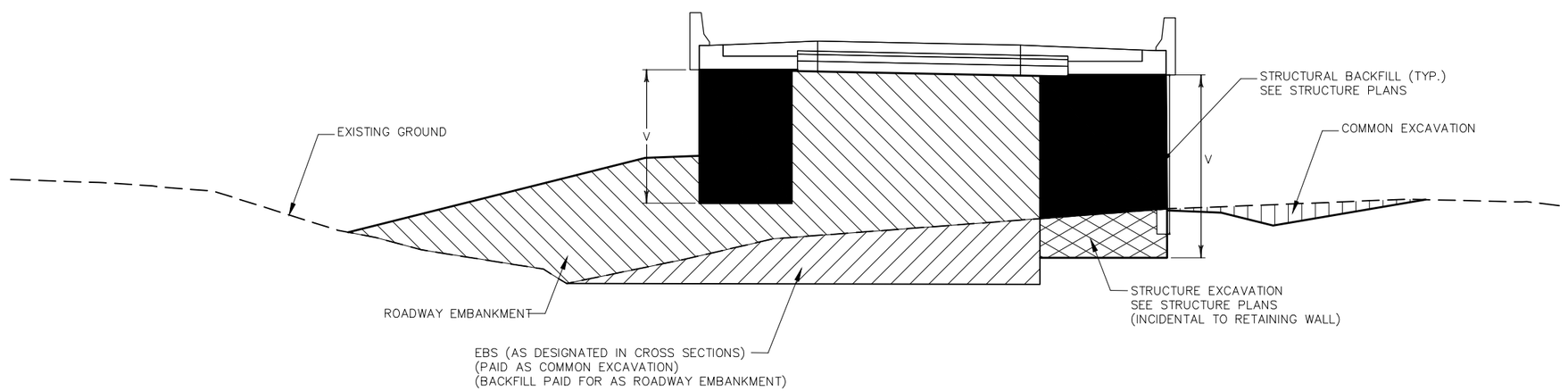
AREA 2



* VARIES BUT ESTIMATED TO ELEVATION 745

PREFABRICATED VERTICAL DRAINS PAY ITEMS

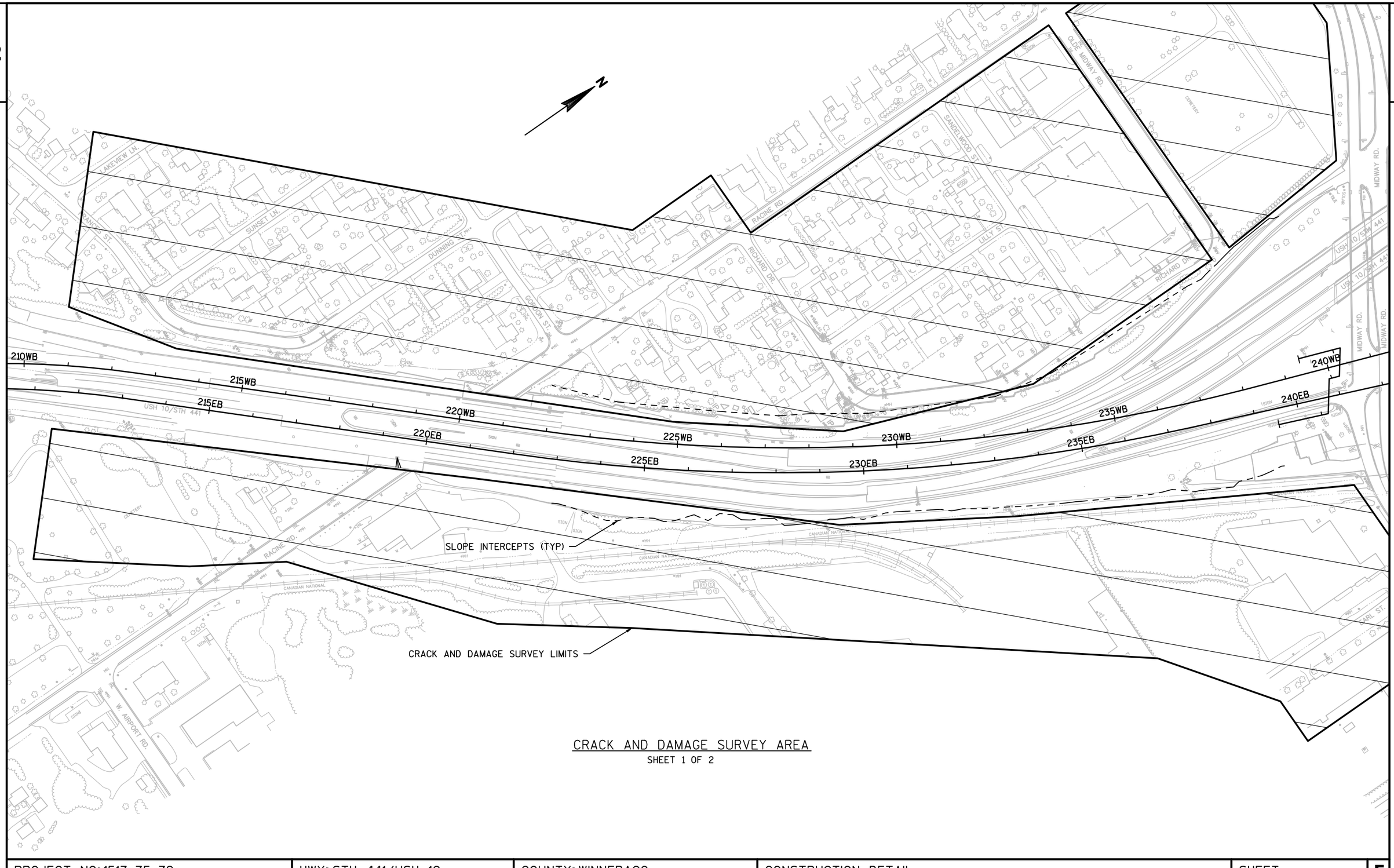
NOT TO SCALE



* SEE STRUCTURE PLANS FOR LENGTHS USED.

EARTHWORK MEASUREMENT DETAIL

2



CRACK AND DAMAGE SURVEY AREA

SHEET 1 OF 2

PROJECT NO: 1517-75-72	HWY: STH 441/USH 10	COUNTY: WINNEBAGO	CONSTRUCTION DETAIL	SHEET 50	E

2

N

SLOPE INTERCEPTS (TYP)

CRACK AND DAMAGE SURVEY LIMITS

265WB
265EB
260WB
260EB
255WB
255EB
250WB
250EB
245WB
245EB
240WB
240EB
10R-70-142
5R-70-142

USH 10/STH 441

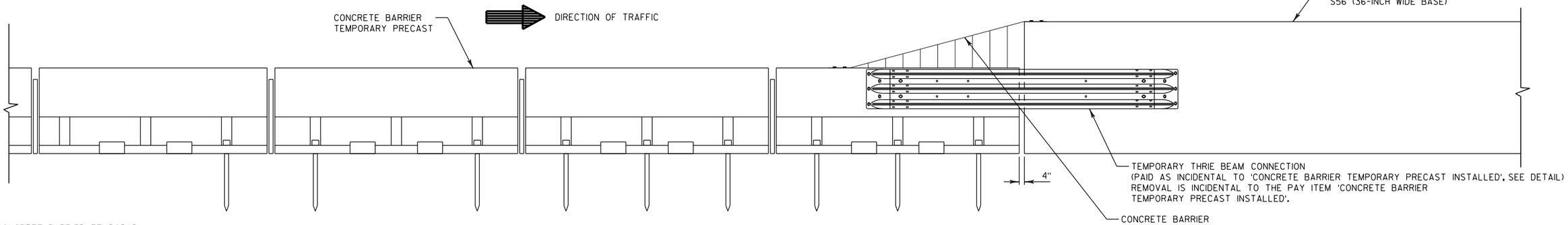
RACINE RD.
MIDWAY RD.
OLDE MIDWAY RD.
CEMETERY
RICHARD DR.
EARL ST.
MISSION ST.
FATIMA ST.

CRACK AND DAMAGE SURVEY AREA
SHEET 2 OF 2

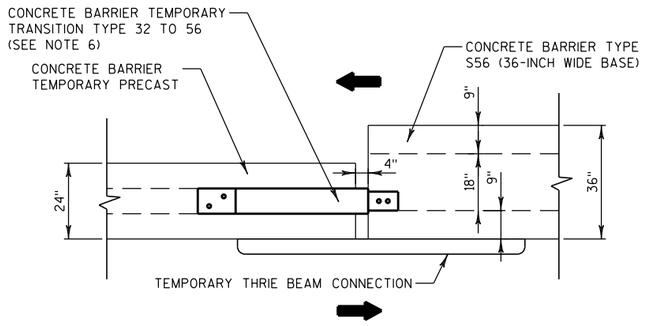
2

PROJECT NO: 1517-75-72	HWY: STH 441/USH 10	COUNTY: WINNEBAGO	CONSTRUCTION DETAIL	SHEET	E

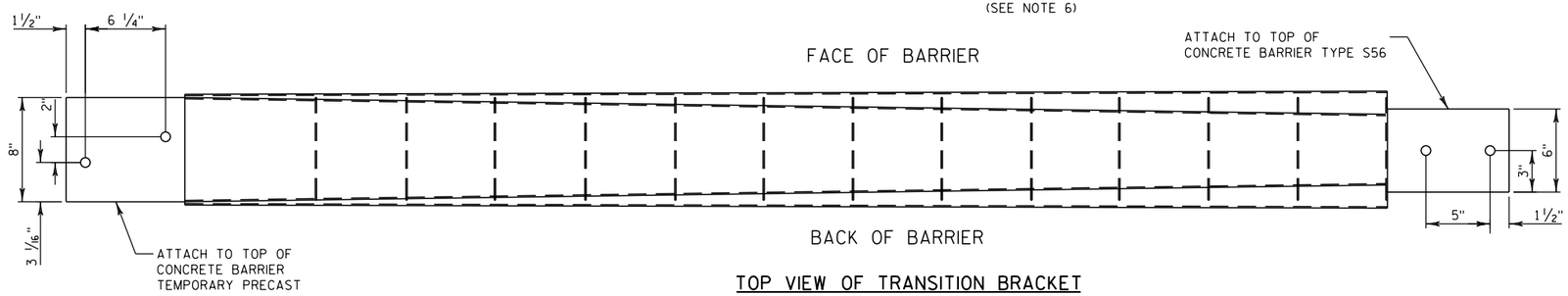
FILE NAME : S:\PDS\C3D\WIS441\15177570_72_77_85\SHEETSPLAN\1517-75-72\021000-CD\NE-15177572-02101-CD.DWG
LAYOUT NAME - NE-15177572-020101-CD-020101-CD20
PLOT DATE : 4/11/2017 6:45 AM PLOT BY : MARTENS, JOHN M PLOT NAME : PLOT SCALE : 1 IN:200 FT
WISDOT/CADDS SHEET 42



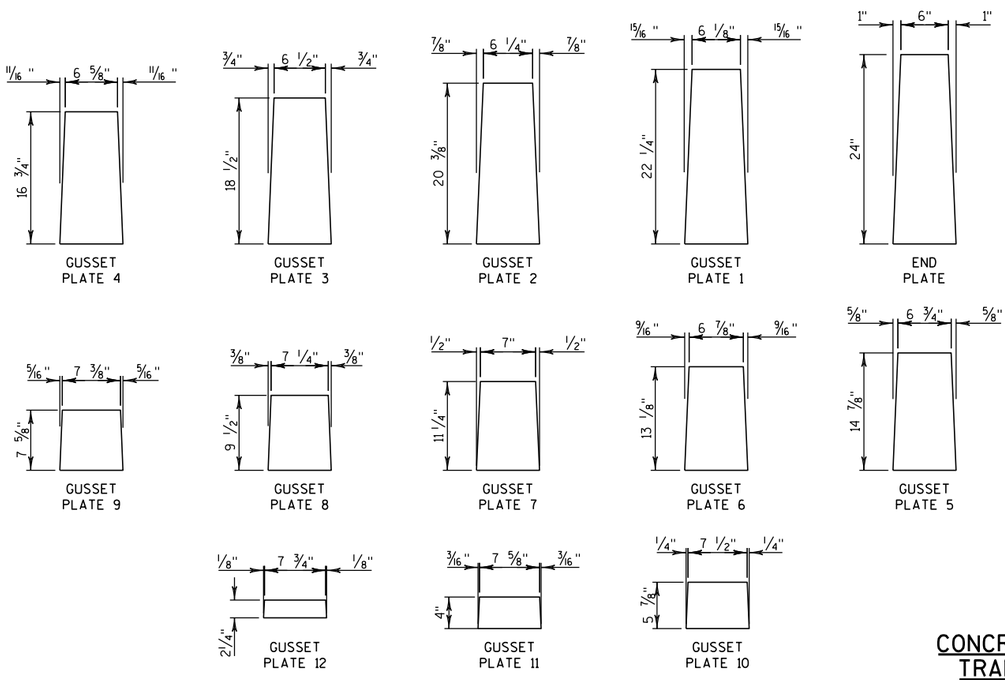
ELEVATION VIEW



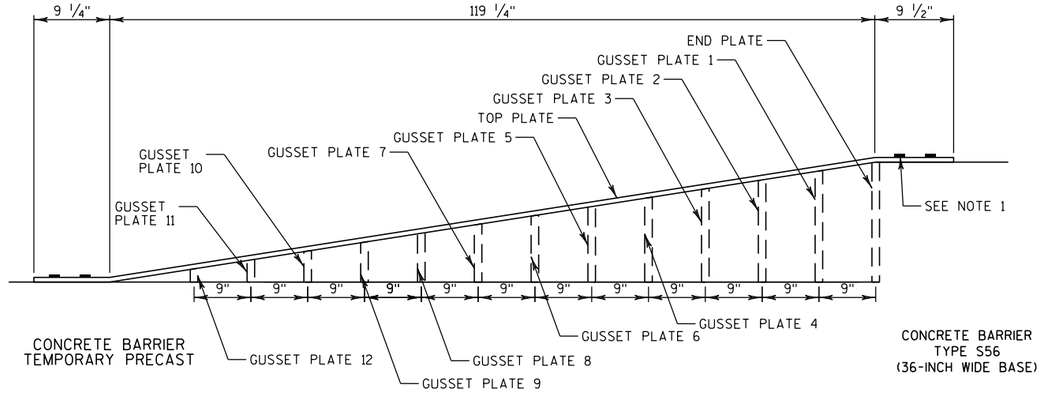
TOP VIEW BARRIER TRANSITION



TOP VIEW OF TRANSITION BRACKET



PLAN VIEW



CONCRETE BARRIER TEMPORARY TRANSITION TYPE 32 TO 56

NOTES

1) FASTEN TEMPORARY BARRIER CAP TO TEMPORARY BARRIER AND PARAPET USING FOUR 5/8" x 4" LONG POWERS FASTENERS WEDGE-BOLT ANCHORS.

2) NINE GUSSET PLATES AND END PLATE ARE STITCH WELDED TO TOP PLATE AND BOTH SIDE PLATES

3) TWO TRIANGULAR SIDE PLATES ARE NEEDED TO ENCASE THE BUILT STRUCTURE.

4) CONSTRUCTION FROM 1/4" STEEL ASTM A36.

5) CONCRETE BARRIER TEMPORARY TRANSITION TYPE 32 TO 56 REQUIRED WHEN TALLER BARRIER IS ON THE DOWNSTREAM SIDE OF APPROACHING TRAFFIC.

6) ALL HOLES ARE 3/4" UNLESS OTHERWISE NOTED.

PROJECT NO: 1517-75-72	HWY: STH 441/USH 10	COUNTY: WINNEBAGO	TRAFFIC CONTROL CONSTRUCTION DETAILS	SHEET	E

2

2

225+00.00 MATCH LINE

RACINE RD

STH 441 SB/USH10 WB

PT: 213+01.23

PC: 222+01.09

EB+00.00, -12.00' LT

SW01

EB+13.42, -12.00' LT

EB+00.00, 12.00' RT

STH 441 NB/USH10 EB

EB+00.00, 12.00' RT

EB+00.00, 50.00' RT

210+00 211+00 212+00 213+00 214+00 215+00 216+00 217+00 218+00 219+00 220+00 221+00 222+00 223+00 224+00 225

211WB 212WB 213WB 214WB 215WB 216WB 217WB 218WB 219WB 220WB 221WB 222WB 223WB 224WB

CEMETERY

CANADIAN NATIONAL

SIGN

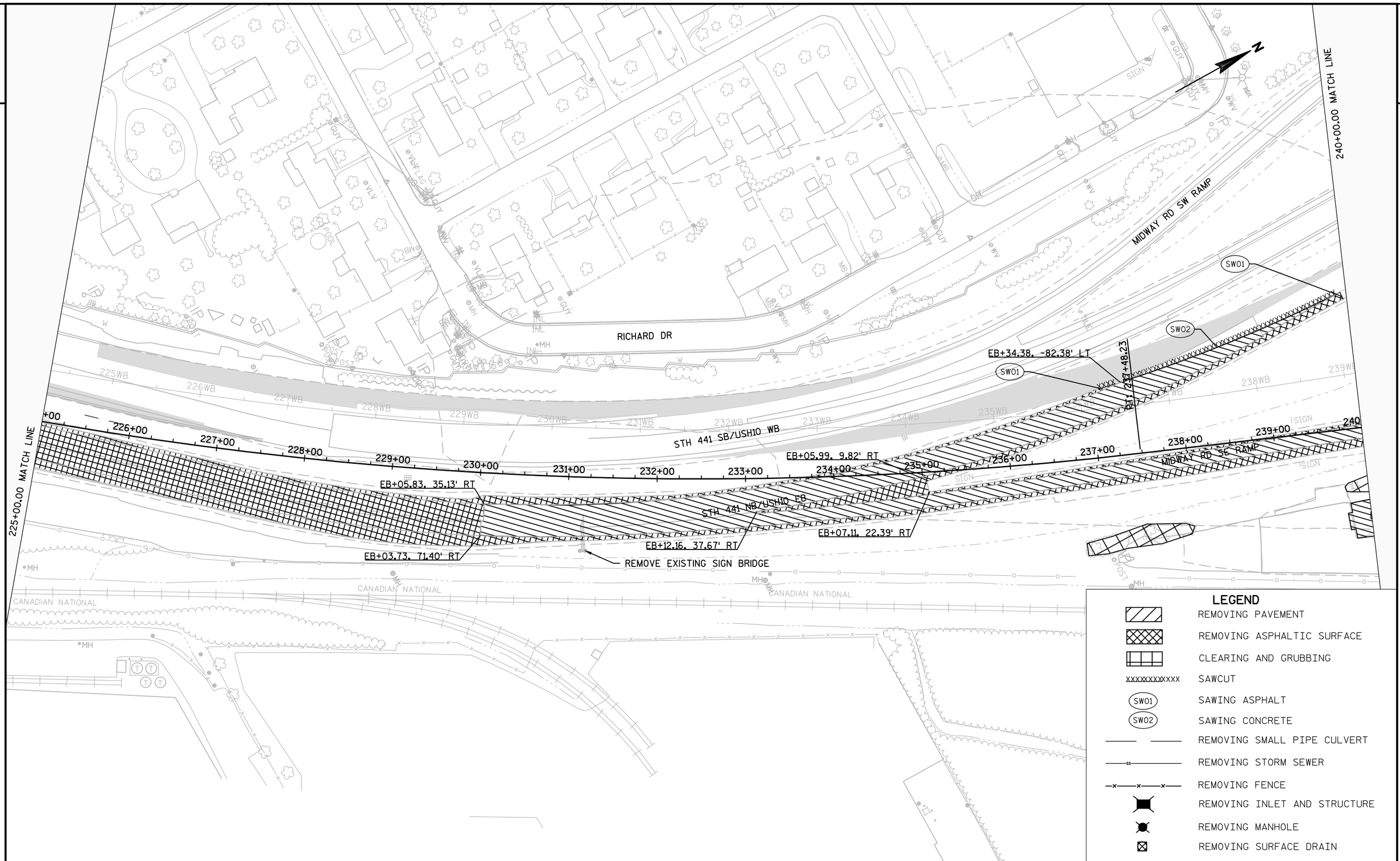
LEGEND

- REMOVING PAVEMENT
- REMOVING ASPHALTIC SURFACE
- CLEARING AND GRUBBING
- XXXXXXXXXXXX SAWCUT
- SW01 SAWING ASPHALT
- SW02 SAWING CONCRETE
- REMOVING SMALL PIPE CULVERT
- REMOVING STORM SEWER
- REMOVING FENCE
- REMOVING INLET AND STRUCTURE
- REMOVING MANHOLE
- REMOVING SURFACE DRAIN

PROJECT NO: 1517-75-72	HWY: USH 10/STH 441	COUNTY: WINNEBAGO	REMOVAL PLAN-STAGE 1A	SHEET 53	E

FILE NAME : S:\PDS\C3D\WIS441\15177570_72_77_85\SHEETSPLAN\1517-75-72\021100-RM\NE-15177572-021101-RM1A.DWG
LAYOUT NAME - 021101-RM1A
PLOT DATE : 2/9/2017 6:10 AM PLOT BY : MARTENS, JOHN M PLOT NAME : PLOT SCALE : 1 IN:100 FT

2



PROJECT NO: 1517-75-72	HWY: USH 10/STH 441	COUNTY: WINNEBAGO	REMOVAL PLAN-STAGE 1A	SHEET 54	E

FILE NAME : S:\PDS\C3D\WIS441\15177570_72_77_85\SHEETSPLAN\1517-75-72\021100-RM\NE-15177572-021101-RM1A.DWG
LAYOUT NAME - 021102-RM1A
PLOT DATE : 2/9/2017 6:10 AM
PLOT BY : MARTENS, JOHN M
PLOT NAME :
PLOT SCALE : 1 IN:100 FT
WISDOT/CADDS SHEET 42

2

2

MIDWAY RD NW RAMP

EB+56.11, -568.55' LT

SW02

EB+61.10, -549.45' LT

SW01

EB+67.56, -422.01' LT

SW02

STH 441 SB/USH10 WB

SW01

EB+50.54, -557.77' LT

EB+49.13, -545.48' LT

STH 441 NB/USH10 EB

SW01

EB+65.97, -406.76' LT

SW02

EB+09.57, -375.50' LT

254+00.00 MATCH LINE

MIDWAY RD SE RAMP

MIDWAY RD

EB+30.59, -65.26' LT

SW02

BULK HEAD 15-INCH

REMOVE STORM SEWER

PC 242+47.50

SW02

EB+23.51, -11.97' LT

EB+15.12, 10.19' RT

BULK HEAD XX-INCH

REMOVE CURB & GUTTER

240+00.00 MATCH LINE

EB+09.31, 53.77' RT

SW02

240WB 241WB 242WB 243WB 244WB 245WB 246WB 247WB 248WB 249WB 250WB 251WB 252WB 253WB

240+00 241+00 242+00 243+00 244+00 245+00 246 250+00 251+00 252+00 253+00 254

LEGEND

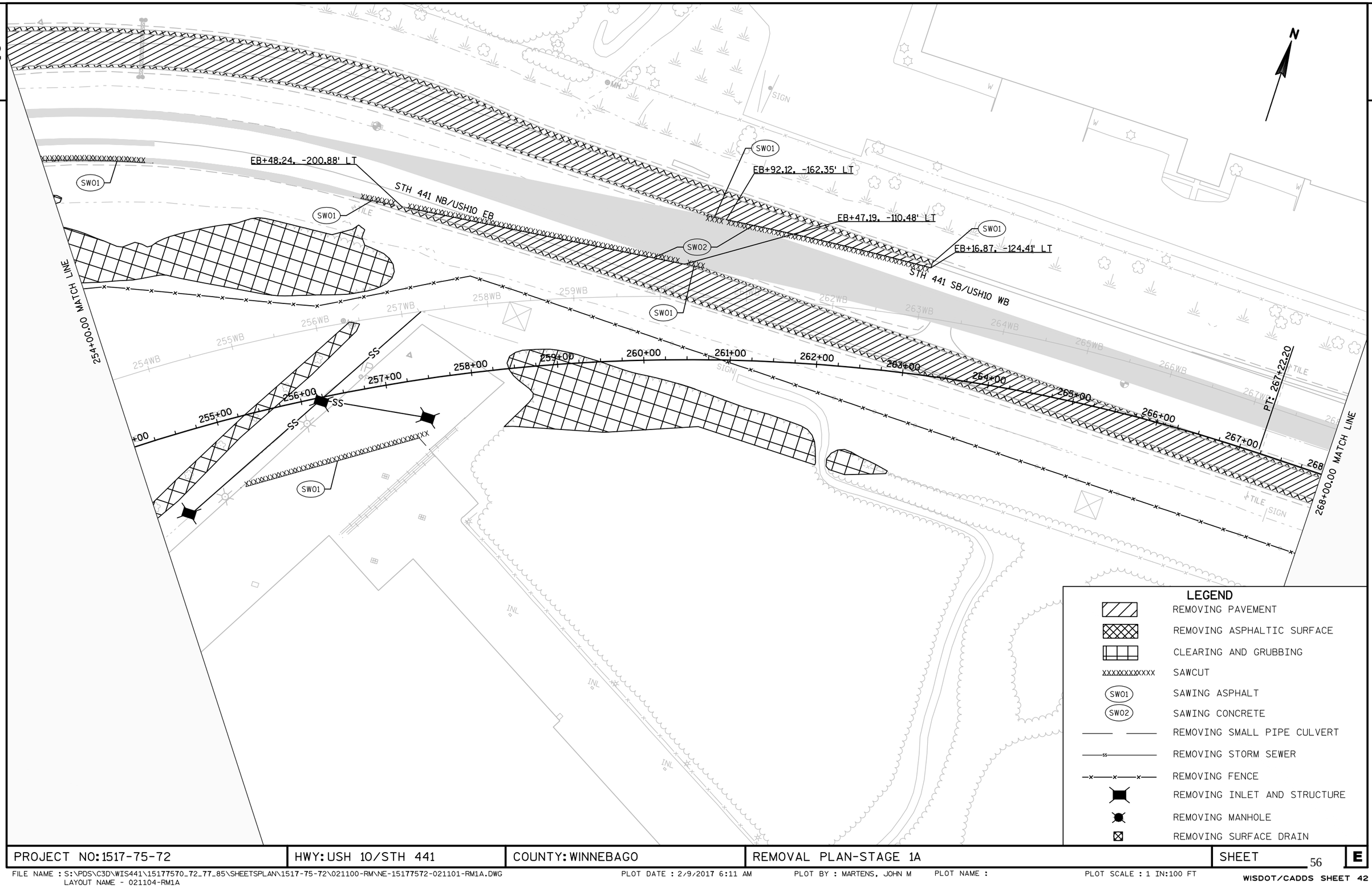
	REMOVING PAVEMENT
	REMOVING ASPHALTIC SURFACE
	CLEARING AND GRUBBING
xxxxxxxxxxx	SAWCUT
SW01	SAWING ASPHALT
SW02	SAWING CONCRETE
	REMOVING SMALL PIPE CULVERT
	REMOVING STORM SEWER
	REMOVING FENCE
	REMOVING INLET AND STRUCTURE
	REMOVING MANHOLE
	REMOVING SURFACE DRAIN

PROJECT NO: 1517-75-72	HWY: USH 10/STH 441	COUNTY: WINNEBAGO	REMOVAL PLAN-STAGE 1A	SHEET 55	E

FILE NAME : S:\PDS\C3D\WIS441\15177570_72_77_85\SHEETSPLAN\1517-75-72\021100-RM\NE-15177572-021101-RM1A.DWG
LAYOUT NAME - 021103-RM1A

PLOT DATE : 2/9/2017 6:11 AM PLOT BY : MARTENS, JOHN M PLOT NAME : PLOT SCALE : 1 IN:100 FT

2



PROJECT NO: 1517-75-72	HWY: USH 10/STH 441	COUNTY: WINNEBAGO	REMOVAL PLAN-STAGE 1A	SHEET 56	E

FILE NAME : S:\PDS\C3D\WIS441\15177570_72_77_85\SHEETSPLAN\1517-75-72\021100-RM\NE-15177572-021101-RM1A.DWG
LAYOUT NAME - 021104-RM1A
PLOT DATE : 2/9/2017 6:11 AM
PLOT BY : MARTENS, JOHN M
PLOT NAME :
PLOT SCALE : 1 IN:100 FT

2

283+00.00 MATCH LINE

N

INL
MH
INL
MH
INL
W
W
SIGN
SIGN
SIGN
TILE
TILE
TILE
APPLETON RD NW RAMP
STH 441 SB/USH10 WB

269WB 270WB 271WB 272WB 273WB 274WB 275WB 276WB 277WB 278WB 279WB 280WB 281WB 282WB

REMOVE TEMPORARY BARRIER LEFT IN PLACE
REMOVE CRASH CUSHION
EB+92.51, 4.17' RT
+00 269+00 270+00 271+00 272+00 273+00 274+00 275+00 276+00 277+00 278+00 279+00 280+00 281+00 282+00 283
STH 441 NB/USH10 EB
SWO2
EB+48.43, 51.97' RT
EB+51.45, 26.86' RT
EB+90.50, 29.91' RT
SWO1
EB+47.07, 71.93' RT
TILE
SIGN
TILE
APPLETON RD SW RAMP
TOWER
SIGN
INL
INL
INL
TYP

268+00.00 MATCH LINE

LEGEND

- REMOVING PAVEMENT
- REMOVING ASPHALTIC SURFACE
- CLEARING AND GRUBBING
- XXXXXXXXXXXX SAWCUT
- SWO1 SAWING ASPHALT
- SWO2 SAWING CONCRETE
- REMOVING SMALL PIPE CULVERT
- SS REMOVING STORM SEWER
- REMOVING FENCE
- REMOVING INLET AND STRUCTURE
- REMOVING MANHOLE
- REMOVING SURFACE DRAIN

PROJECT NO: 1517-75-72	HWY: USH 10/STH 441	COUNTY: WINNEBAGO	REMOVAL PLAN-STAGE 1A	SHEET 57	E

FILE NAME : S:\PDS\C3D\WIS441\15177570_72_77_85\SHEETSPLAN\1517-75-72\021100-RM\NE-15177572-021101-RM1A.DWG
LAYOUT NAME - 021105-RM1A

PLOT DATE : 2/9/2017 6:11 AM PLOT BY : MARTENS, JOHN M PLOT NAME : PLOT SCALE : 1 IN:100 FT

2

2

298+25.00 MATCH LINE

283+00.00 MATCH LINE

APPLETON RD NW RAMP

APPLETON RD NE RAMP

APPLETON RD

APPLETON RD SW RAMP

APPLETON RD SE RAMP

STH 441 SB/USH10 WB

STH 441 NB/USH10 EB

REMOVE TEMPORARY BARRIER LEFT IN PLACE

REMOVE TEMPORARY BARRIER LEFT IN PLACE

REMOVE THRIE BEAM
AND CAP TRANSITION

284WB 285WB 286WB 287WB 288WB 289WB 290WB 291WB 292WB 293WB 294WB 295WB 296WB 297WB 298WB

284+00 285+00 286+00 287+00 288+00 289+00 290+00 291+00 292+00 293+00 294+00 295+00 296+00 297+00 298+00

LEGEND

- REMOVING PAVEMENT
- REMOVING ASPHALTIC SURFACE
- CLEARING AND GRUBBING
- XXXXXXXXXXXX SAWCUT
- SW01 SAWING ASPHALT
- SW02 SAWING CONCRETE
- REMOVING SMALL PIPE CULVERT
- REMOVING STORM SEWER
- REMOVING FENCE
- REMOVING INLET AND STRUCTURE
- REMOVING MANHOLE
- REMOVING SURFACE DRAIN

PROJECT NO: 1517-75-72	HWY: USH 10/STH 441	COUNTY: WINNEBAGO	REMOVAL PLAN-STAGE 1A	SHEET 58	E

FILE NAME : S:\PDS\C3D\WIS441\15177570_72_77_85\SHEETSPLAN\1517-75-72\021100-RM\NE-15177572-021101-RM1A.DWG
LAYOUT NAME - 021006-RM1A

PLOT DATE : 2/9/2017 6:11 AM PLOT BY : MARTENS, JOHN M PLOT NAME : PLOT SCALE : 1 IN:100 FT

WISDOT/CADDS SHEET 42

2

N

REMOVE TEMPORARY BARRIER LEFT IN PLACE

REMOVE CRASH CUSHION

APPLETON RD NE RAMP

STH 441 SB/USH10 WB

299WB 300WB 301WB 302WB 303WB 304WB 305WB 306WB 307WB 308WB 309WB 310WB 311WB 312WB 313WB

299+00 300+00 301+00 302+00 303+00 304+00 305+00 306+00 307+00 308+00 309+00 310+00 311+00 312+00 313+00

STH 441 NB/USH10 EB

APPLETON RD SE RAMP

298+25.00 MATCH LINE

LEGEND

- REMOVING PAVEMENT
- REMOVING ASPHALTIC SURFACE
- CLEARING AND GRUBBING
- XXXXXXXXXXXX SAWCUT
- SWO1 SAWING ASPHALT
- SWO2 SAWING CONCRETE
- REMOVING SMALL PIPE CULVERT
- REMOVING STORM SEWER
- REMOVING FENCE
- REMOVING INLET AND STRUCTURE
- REMOVING MANHOLE
- REMOVING SURFACE DRAIN

PROJECT NO: 1517-75-72	HWY: USH 10/STH 441	COUNTY: WINNEBAGO	REMOVAL PLAN-STAGE 1A	SHEET 59	E

FILE NAME : S:\PDS\C3D\WIS441\15177570_72_77_85\SHEETSPLAN\1517-75-72\021100-RM\NE-15177572-021101-RM1A.DWG
LAYOUT NAME - 021007-RM1A

PLOT DATE : 2/9/2017 6:12 AM PLOT BY : MARTENS, JOHN M PLOT NAME : PLOT SCALE : 1 IN:100 FT

2

2

283+00.00 MATCH LINE

N

APPLETON RD NW RAMP

APPLETON RD SW RAMP

STH 441 SB/ USH10 WB

STH 441 NB/ USH10 EB

EB+49.00, -30.97' LT

EB+81.28, -30.99' LT

EB+92.51, 4.26' RT

EB+90.50, 29.91' RT

EB+27.05, 36.51' RT

EB+45.70, 78.47' RT

SW01

268WB 269WB 270WB 271WB 272WB 273WB 274WB 275WB 276WB 277WB 278WB 279WB 280WB 281WB 282WB

268EB 269EB 270EB 271EB 272EB 273EB 274EB 275EB 277EB

TILE SIGN INL MH W TVE TOWER

LEGEND

- REMOVING PAVEMENT
- REMOVING ASPHALTIC SURFACE
- CLEARING AND GRUBBING
- XXXXXXXXXXXX SAWCUT
- SW01 SAWING ASPHALT
- SW02 SAWING CONCRETE
- REMOVING SMALL PIPE CULVERT
- REMOVING STORM SEWER
- REMOVING FENCE
- REMOVING INLET AND STRUCTURE
- REMOVING MANHOLE
- REMOVING SURFACE DRAIN

PROJECT NO: 1517-75-72	HWY: USH 10/STH 441	COUNTY: WINNEBAGO	REMOVAL PLAN-STAGE 1B	SHEET 60	E

FILE NAME : S:\PDS\C3D\WIS441\15177570_72_77_85\SHEETSPLAN\1517-75-72\021100-RM\NE-15177572-021111-RM1B.DWG
LAYOUT NAME - 021111-RM1B

PLOT DATE : 2/9/2017 6:12 AM PLOT BY : MARTENS, JOHN M PLOT NAME : PLOT SCALE : 1 IN:100 FT

WISDOT/CADDS SHEET 42

2

2

N

APPLETON RD NW RAMP

APPLETON RD NE RAMP

APPLETON RD

APPLETON RD SW RAMP

APPLETON RD SE RAMP

STH 441 SB/ USH10 WB

STH 441 NB/ USH10 EB

CONCRETE APPROACH SLAB

EB+33.02, -25.61' LT

EB+33.45, 4.62' RT

EB+33.91, 30.39' RT

EB+34.01, 38.01' RT

283+00.00 MATCH LINE

LEGEND

- REMOVING PAVEMENT
- REMOVING ASPHALTIC SURFACE
- CLEARING AND GRUBBING
- xxxxxxxxxxxx SAWCUT
- SW01 SAWING ASPHALT
- SW02 SAWING CONCRETE
- REMOVING SMALL PIPE CULVERT
- REMOVING STORM SEWER
- REMOVING FENCE
- REMOVING INLET AND STRUCTURE
- REMOVING MANHOLE
- REMOVING SURFACE DRAIN

PROJECT NO: 1517-75-72	HWY: USH 10/STH 441	COUNTY: WINNEBAGO	REMOVAL PLAN-STAGE 1B	SHEET 61	E

FILE NAME : S:\PDS\C3D\WIS441\15177570_72_77_85\SHEETSPLAN\1517-75-72\021100-RM\NE-15177572-021111-RM1B.DWG
LAYOUT NAME - 021112-RM1B

PLOT DATE : 2/9/2017 6:12 AM PLOT BY : MARTENS, JOHN M PLOT NAME : PLOT SCALE : 1 IN:100 FT

2

2

225+00.00 MATCH LINE

RACINE RD

STH 441 SB/ USH10 WB

STH 441 NB/ USH10 EB

EB+32.95, -48.21' LT

EB+30.45, 19.47' RT

SW01

CEMETERY

CANADIAN NATIONAL

LEGEND

- REMOVING PAVEMENT
- REMOVING ASPHALTIC SURFACE
- CLEARING AND GRUBBING
- XXXXXXXXXXXX SAWCUT
- SW01 SAWING ASPHALT
- SW02 SAWING CONCRETE
- REMOVING SMALL PIPE CULVERT
- REMOVING STORM SEWER
- REMOVING FENCE
- REMOVING INLET AND STRUCTURE
- REMOVING MANHOLE
- REMOVING SURFACE DRAIN

PROJECT NO: 1517-75-72	HWY: USH 10/STH 441	COUNTY: WINNEBAGO	REMOVAL PLAN-STAGE 2A	SHEET 62	E

FILE NAME : S:\PDS\C3D\WIS441\15177570_72_77_85\SHEETSPLAN\1517-75-72\021100-RM\NE-15177572-021121-RM2A.DWG
LAYOUT NAME - 021121-RM2A

PLOT DATE : 2/9/2017 6:13 AM PLOT BY : MARTENS, JOHN M PLOT NAME : PLOT SCALE : 1 IN:100 FT

2

2

RICHARD DR

EB+28.28, -53.49' LT

EB+26.42, -15.43' LT

EB+20.01, -145.77' LT

EB+24.89, -135.66' LT

EB+39.87, -95.62' LT

EB+02.53, -67.34' LT

STH 441 SB/ USH10 WB

STH 441 NB/ USH10 EB

MIDWAY RD SW RAMP

MIDWAY RD SE RAMP

225+00.00 MATCH LINE

240+00.00 MATCH LINE

CANADIAN NATIONAL

CANADIAN NATIONAL

LEGEND

- REMOVING PAVEMENT
- REMOVING ASPHALTIC SURFACE
- CLEARING AND GRUBBING
- XXXXXXXXXXXX SAWCUT
- SW01 SAWING ASPHALT
- SW02 SAWING CONCRETE
- REMOVING SMALL PIPE CULVERT
- REMOVING STORM SEWER
- REMOVING FENCE
- REMOVING INLET AND STRUCTURE
- REMOVING MANHOLE
- REMOVING SURFACE DRAIN

PROJECT NO: 1517-75-72	HWY: USH 10/STH 441	COUNTY: WINNEBAGO	REMOVAL PLAN-STAGE 2A	SHEET 63	E

FILE NAME : S:\PDS\C3D\WIS441\15177570_72_77_85\SHEETSPLAN\1517-75-72\021100-RM\NE-15177572-021121-RM2A.DWG
LAYOUT NAME - 021122-RM2A

PLOT DATE : 2/9/2017 6:13 AM PLOT BY : MARTENS, JOHN M PLOT NAME : PLOT SCALE : 1 IN:100 FT

REMOVE CONCRETE SLOPE PAVING

REMOVE STRUCTURE B-70-112
SPAN 54" PRE STRESSED GIRDERS
212' OVERALL LENGTH
40' OVERALL WIDTH

SW02

MIDWAY RD NW RAMP

STH 441 SB/ USH10 WB

STH 441 NB/ USH10 EB

REMOVE CONCRETE SLOPE PAVING

MIDWAY RD NE RAMP

MIDWAY RD

REMOVE STRUCTURE B-70-111
SPAN 54" PRE STRESSED GIRDERS
201' OVERALL LENGTH
40' OVERALL WIDTH

REMOVE STORM SEWER

254+00.00 MATCH LINE

240+00.00 MATCH LINE

LEGEND

- REMOVING PAVEMENT
- REMOVING ASPHALTIC SURFACE
- CLEARING AND GRUBBING
- xxxxxxxxxxxx SAWCUT
- SW01 SAWING ASPHALT
- SW02 SAWING CONCRETE
- REMOVING SMALL PIPE CULVERT
- REMOVING STORM SEWER
- REMOVING FENCE
- REMOVING INLET AND STRUCTURE
- REMOVING MANHOLE
- REMOVING SURFACE DRAIN

PROJECT NO: 1517-75-72	HWY: USH 10/STH 441	COUNTY: WINNEBAGO	REMOVAL PLAN-STAGE 2A	SHEET 64	E

FILE NAME : S:\PDS\C3D\WIS441\15177570_72_77_85\SHEETSPLAN\1517-75-72\021100-RM\NE-15177572-021121-RM2A.DWG
LAYOUT NAME - 021123-RM2A

PLOT DATE : 4/10/2017 3:42 PM PLOT BY : MARTENS, JOHN M PLOT NAME : PLOT SCALE : 1 IN:100 FT

WISDOT/CADDS SHEET 42

2

2

EB+12.72, -333.01' LT

STH 441 SB/ USH10 WB

STH 441 NB/ USH10 EB

EB+92.12, -162.35' LT

EB+18.55, -133.49' LT

EB+47.19, -110.48' LT

SW02

EB+49.67, -94.34' LT

EB+50.00, -59.78' LT

SW01

EB+50.00, -30.99' LT

254+00.00 MATCH LINE

268+00.00 MATCH LINE

N

LEGEND

- REMOVING PAVEMENT
- REMOVING ASPHALTIC SURFACE
- CLEARING AND GRUBBING
- XXXXXXXXXXXX SAWCUT
- SW01 SAWING ASPHALT
- SW02 SAWING CONCRETE
- REMOVING SMALL PIPE CULVERT
- REMOVING STORM SEWER
- REMOVING FENCE
- REMOVING INLET AND STRUCTURE
- REMOVING MANHOLE
- REMOVING SURFACE DRAIN

PROJECT NO: 1517-75-72	HWY: USH 10/STH 441	COUNTY: WINNEBAGO	REMOVAL PLAN-STAGE 2A	SHEET 65	E

FILE NAME : S:\PDS\C3D\WIS441\15177570_72_77_85\SHEETSPLAN\1517-75-72\021100-RM\NE-15177572-021121-RM2A.DWG
LAYOUT NAME - 021124-RM2A

PLOT DATE : 2/9/2017 6:13 AM PLOT BY : MARTENS, JOHN M PLOT NAME : PLOT SCALE : 1 IN:100 FT

WISDOT/CADDS SHEET 42

2

283+00.00 MATCH LINE

268+00.00 MATCH LINE

N

EB+09.71, -91.91' LT

EB+09.30, -85.79' LT

EB+09.25, -59.67' LT

EB+09.25, -30.97' LT

SW02

SW01

APPLETON RD NW RAMP

APPLETON RD SW RAMP

STH 441 SB/ USH10 WB

STH 441 NB/ USH10 EB

269WB 270WB 271WB 272WB 273WB 274WB 275WB 276WB 277WB 278WB

269EB 270EB 271EB 272EB 273EB 274EB 275EB 276EB 277EB 278EB 279EB 280EB 281EB 282EB

TILE SIGN INL MH W TVE TOWER

LEGEND

- REMOVING PAVEMENT
- REMOVING ASPHALTIC SURFACE
- CLEARING AND GRUBBING
- XXXXXXXXXXXX SAWCUT
- SW01 SAWING ASPHALT
- SW02 SAWING CONCRETE
- REMOVING SMALL PIPE CULVERT
- REMOVING STORM SEWER
- REMOVING FENCE
- REMOVING INLET AND STRUCTURE
- REMOVING MANHOLE
- REMOVING SURFACE DRAIN

PROJECT NO: 1517-75-72	HWY: USH 10/STH 441	COUNTY: WINNEBAGO	REMOVAL PLAN-STAGE 2A	SHEET 66	E

FILE NAME : S:\PDS\C3D\WIS441\15177570_72_77_85\SHEETSPLAN\1517-75-72\021100-RM\NE-15177572-021121-RM2A.DWG
LAYOUT NAME - 021025-RM2A

PLOT DATE : 2/9/2017 6:13 AM PLOT BY : MARTENS, JOHN M PLOT NAME : PLOT SCALE : 1 IN:100 FT

WISDOT/CADDS SHEET 42

2

2

N

APPLETON RD NW RAMP

APPLETON RD NE RAMP

APPLETON RD

EB+31.79, -91.52' LT

EB+31.79, -85.62' LT

EB+32.57, -59.51' LT

EB+32.85, -28.90' LT

STH 441 SB/ USH10 WB

STH 441 NB/ USH10 EB

APPLETON RD SW RAMP

APPLETON RD SE RAMP

283+00.00 MATCH LINE

LEGEND

- REMOVING PAVEMENT
- REMOVING ASPHALTIC SURFACE
- CLEARING AND GRUBBING
- XXXXXXXXXXXX SAWCUT
- SWO1 SAWING ASPHALT
- SWO2 SAWING CONCRETE
- REMOVING SMALL PIPE CULVERT
- REMOVING STORM SEWER
- REMOVING FENCE
- REMOVING INLET AND STRUCTURE
- REMOVING MANHOLE
- REMOVING SURFACE DRAIN

PROJECT NO:1517-75-72	HWY: USH 10/STH 441	COUNTY: WINNEBAGO	REMOVAL PLAN-STAGE 2A	SHEET 67	E

LEGEND

(CP13) CONCRETE PAVEMENT 11-INCH, DOWELED AND TINED

2

2

220+00.00 MATCH LINE

214WB 215WB 216WB 217WB 218WB 219WB

214EB 215EB 216EB 217EB 218EB 219EB 220

STH 441 NB/USH 10 EB

EB+00.00
-12.00' LT

EB+13.42
-26.00' LT

EB+13.42
-12.00' LT

14'

12'

12'

CP13

CP13

CP13

EB+00.00
12.00' RT

RACINE RD

SIGN

MH

INL

TILE

W

N

PROJECT NO: 1517-75-72	HWY: STH 441/USH 10	COUNTY: WINNEBAGO	PLAN DETAILS	SHEET 68	E

FILE NAME : S:\PDS\C3D\WIS441\15177570_72_77_85\SHEETSPLAN\1517-75-72\021200-PD\NE-15177572-021201-PD.DWG
LAYOUT NAME - 021201-PD

PLOT DATE : 2/9/2017 12:43 PM PLOT BY : MARTENS, JOHN M PLOT NAME : PLOT SCALE : 1 IN:40 FT

WISDOT/CADDS SHEET 42

LEGEND

AG01 BASE AGGREGATE 3/4-INCH

CB07 CONCRETE BARRIER TYPE S56

CP13 CONCRETE PAVEMENT 11-INCH, DOWELED AND TINED

PV16 ASPHALTIC SURFACE

RACINE RD

226+00.00 MATCH LINE

220+00.00 MATCH LINE

TEMPORARY WALL WIRE FACED MECHANICALLY STABILIZED EARTH

220WB 221WB 222WB 223WB 224WB 225WB

EB+46.35
-45.66' LT

EB+43.08
-45.46' LT

EB+99.34
-26.00' LT

EB+46.38
-26.00' LT

EB+60.00
-30.59' LT

EB+60.00
-26.00' LT

EB+60.00
-12.00' LT

221EB 222EB 223EB 224EB 225EB

STH 441 NB/USH 10 EB

EB+00.00
12.00' RT

EB+00.00
38.00' RT

EB+00.00
50.00' RT

EB+00.00
51.00' RT

EB+31.38
24.00' RT

EB+31.38
38.00' RT

14' 12' 12' 12' 14' 21' 7' 12' 1'

SIGN SIGN SIGN MH MH MH W

NATIONAL

PROJECT NO: 1517-75-72	HWY: STH 441/USH 10	COUNTY: WINNEBAGO	PLAN DETAILS	SHEET 69 E

FILE NAME : S:\PDS\C3D\WIS441\15177570_72_77_85\SHEETSPLAN\1517-75-72\021200-PD\NE-15177572-021201-PD.DWG
LAYOUT NAME - 021202-PD

PLOT DATE : 2/9/2017 12:43 PM PLOT BY : MARTENS, JOHN M PLOT NAME : PLOT SCALE : 1 IN:40 FT

LEGEND

- AG01 BASE AGGREGATE 3/4-INCH
- CB07 CONCRETE BARRIER TYPE S56
- CP13 CONCRETE PAVEMENT 11-INCH, DOWELED AND TINED
- PV16 ASPHALTIC SURFACE

RICHARD DR

232+00.00 MATCH LINE

TEMPORARY WALL WIRE FACED MECHANICALLY STABILIZED EARTH

226WB 227WB 228WB 229WB 230WB 231WB

CB07

2'

CP13 12'

227EB 228EB 229EB 230EB 231EB

STH 441 NB/USH 10 EB

CP13 12'

CP13 12'

EB+94.30
24.00' RT

EB+94.30
26.00' RT

19'

21'

PV16

1'

AG01

226+00.00 MATCH LINE

CANADIAN NATIONAL

PROJECT NO: 1517-75-72	HWY: STH 441/USH 10	COUNTY: WINNEBAGO	PLAN DETAILS	SHEET 70	E

FILE NAME : S:\PDS\C3D\WIS441\15177570_72_77_85\SHEETSPLAN\1517-75-72\021200-PD\NE-15177572-021201-PD.DWG
LAYOUT NAME - 021203-PD

PLOT DATE : 2/9/2017 12:43 PM PLOT BY : MARTENS, JOHN M PLOT NAME : PLOT SCALE : 1 IN:40 FT

WISDOT/CADDS SHEET 42

2

LEGEND

- AG01 BASE AGGREGATE 3/4-INCH
- CB07 CONCRETE BARRIER TYPE S56
- CP13 CONCRETE PAVEMENT 11-INCH, DOWELED AND TINED
- PV16 ASPHALTIC SURFACE

RICHARD DR

MIDWAY RD SW RAMP

238+00.00 MATCH LINE

TEMPORARY WALL WIRE FACED MECHANICALLY STABILIZED EARTH

232WB 233WB 234WB 235WB 236WB 237WB

EB+50.00
-39.68' LT

EB+85.00
-26.00' LT

EB+85.00
-12.00' LT

CB07

CP13

2'

12'

12'

14'

19'

1'

13'

232EB 233EB 234EB 235EB 236EB 237EB

STH 441 NB/USH 10 EB

PV16

AG01

EB+85.00
45.00' RT

EB+50.90
39.00' RT

232+00.00 MATCH LINE

CANADIAN NATIONAL

MH

POST

PROJECT NO: 1517-75-72	HWY: STH 441/USH 10	COUNTY: WINNEBAGO	PLAN DETAILS	SHEET 71	E

FILE NAME : S:\PDS\C3D\WIS441\15177570_72_77_85\SHEETSPLAN\1517-75-72\021200-PD\NE-15177572-021201-PD.DWG
LAYOUT NAME - 021204-PD

PLOT DATE : 2/9/2017 12:43 PM PLOT BY : MARTENS, JOHN M PLOT NAME : PLOT SCALE : 1 IN:40 FT

LEGEND

- AG01 BASE AGGREGATE 3/4-INCH
- AP38 HMA PAVEMENT 11-INCH
- CB05 CONCRETE BARRIER TYPE S32
- CB07 CONCRETE BARRIER TYPE S56
- CP13 CONCRETE PAVEMENT 11-INCH, DOWELED AND TINED
- PV16 ASPHALTIC SURFACE

2

2

N

MIDWAY RD

SEE B-70-424 PLANS

STA 240WB+20.45

STA 241WB+99.13

B-70-424

B-70-423

SEE B-70-423 PLANS

STA 240EB+67.35

STA 240EB+68.66

238WB 239WB 240WB 241WB 242WB 243WB

239EB 240EB 241EB 242EB 243EB

STH 441 NB/USH 10 EB

244+00.00 MATCH LINE

238+00.00 MATCH LINE

PROPOSED 30' UTILITY CORRIDOR STA 238EB+50

R-70-150

R-70-151

MIDWAY RD NE RAMP

243MNE

244MNE

MNE+20.84
23.00' RT

EB+50.00
-26.00' LT

EB+50.00
-12.00' LT

EB+73.69
-26.00' LT

EB+70.71
-12.00' LT

EB+67.73
0.00'

EB+64.75
12.00' RT

EB+61.28
26.00' RT

EB+59.05
35.00' RT

EB+50.00
26.00' RT

EB+50.00
12.00' RT

EB+50.00
35.00' RT

EB+50.00
38.00' RT

EB+74.29
-26.00' LT

EB+74.29
-24.00' LT

EB+71.49
-12.00' LT

EB+68.66
0.00'

EB+65.79
12.00' RT

EB+62.40
26.00' RT

EB+60.20
35.00' RT

EB+50.00
-26.00' LT

EB+50.00
-12.00' LT

EB+50.00
12.00' RT

EB+50.00
26.00' RT

EB+50.00
35.96' RT

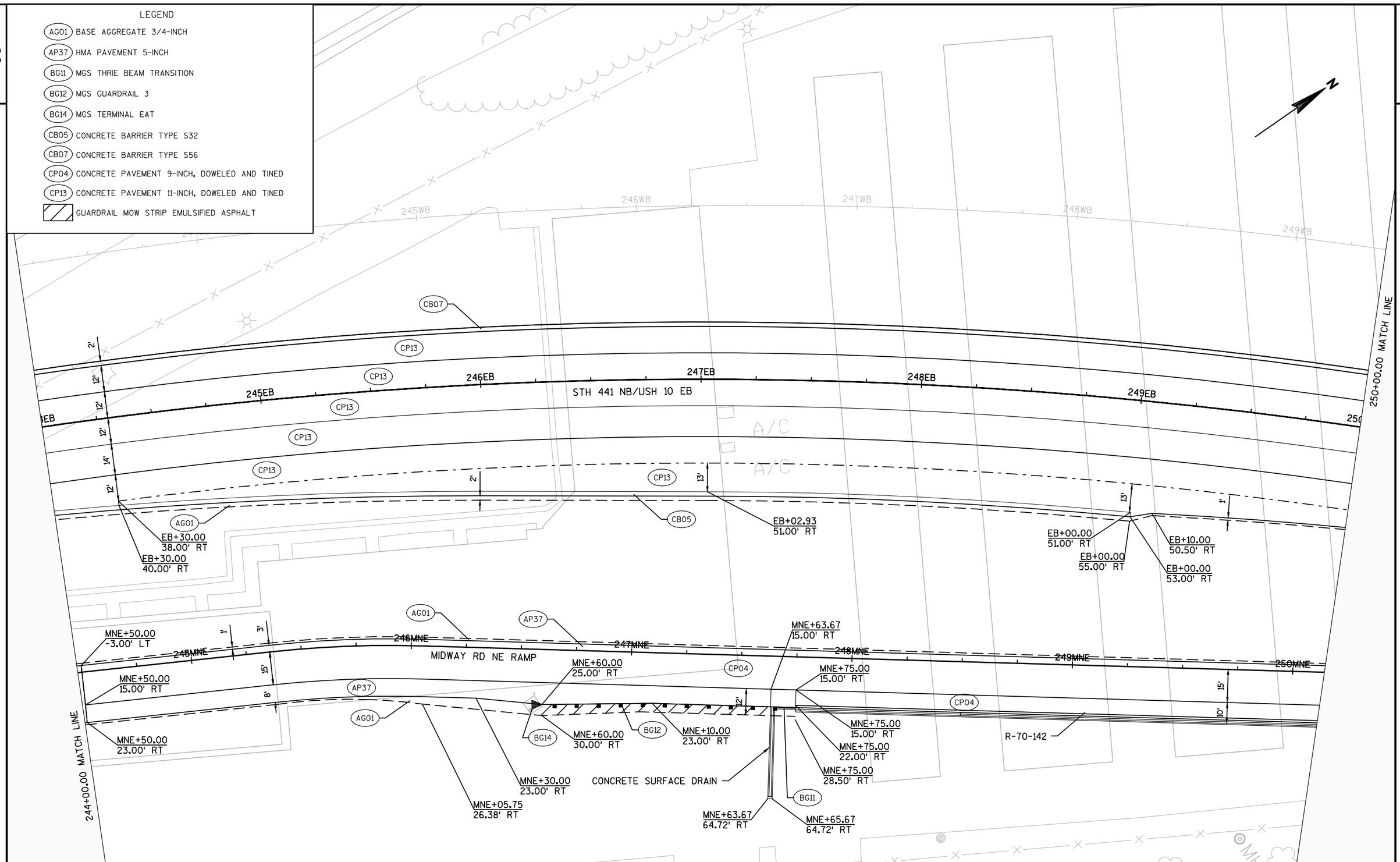
EB+50.00
38.00' RT

EB+50.00
40.01' RT

PROJECT NO: 1517-75-72	HWY: STH 441/USH 10	COUNTY: WINNEBAGO	PLAN DETAILS	SHEET 72	E

LEGEND

- AG01 BASE AGGREGATE 3/4-INCH
- AP37 HMA PAVEMENT 5-INCH
- BG11 MGS THRIE BEAM TRANSITION
- BG12 MGS GUARDRAIL 3
- BG14 MGS TERMINAL EAT
- CB05 CONCRETE BARRIER TYPE S32
- CB07 CONCRETE BARRIER TYPE S56
- CP04 CONCRETE PAVEMENT 9-INCH, DOWELED AND TINED
- CP13 CONCRETE PAVEMENT 11-INCH, DOWELED AND TINED
- GUARDRAIL MOW STRIP EMULSIFIED ASPHALT



PROJECT NO: 1517-75-72	HWY: STH 441/USH 10	COUNTY: WINNEBAGO	PLAN DETAILS	SHEET 73	E

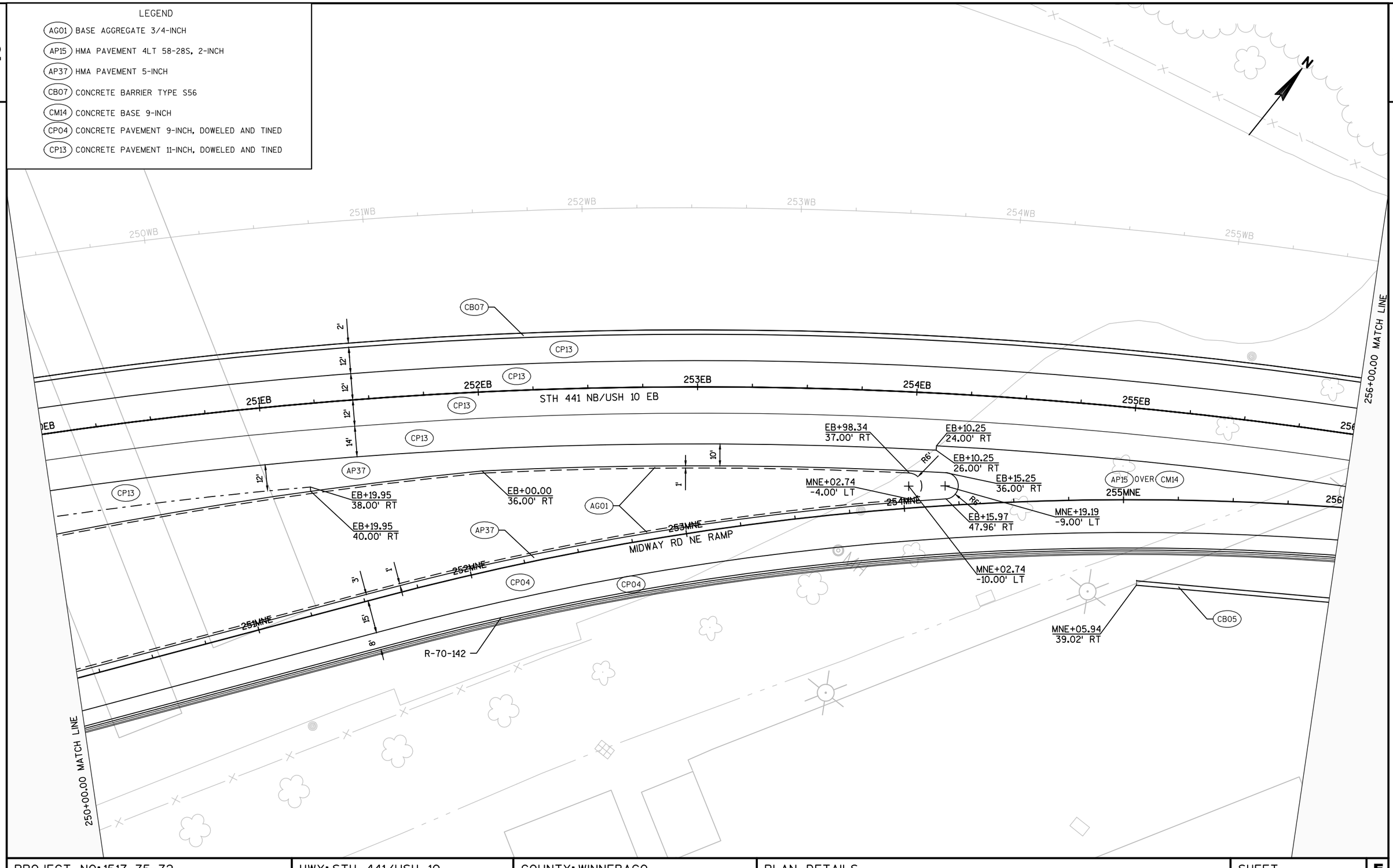
FILE NAME : S:\PDS\C3D\WIS441\15177570_72_77_85\SHEETSPLAN\1517-75-72\021200-PD\NE-15177572-021201-PD.DWG
LAYOUT NAME - 021206-PD

PLOT DATE : 2/9/2017 12:43 PM PLOT BY : MARTENS, JOHN M PLOT NAME : PLOT SCALE : 1 IN:40 FT

2

LEGEND

- AG01 BASE AGGREGATE 3/4-INCH
- AP15 HMA PAVEMENT 4LT 58-28S, 2-INCH
- AP37 HMA PAVEMENT 5-INCH
- CB07 CONCRETE BARRIER TYPE S56
- CM14 CONCRETE BASE 9-INCH
- CP04 CONCRETE PAVEMENT 9-INCH, DOWELED AND TINED
- CP13 CONCRETE PAVEMENT 11-INCH, DOWELED AND TINED



PROJECT NO: 1517-75-72	HWY: STH 441/USH 10	COUNTY: WINNEBAGO	PLAN DETAILS	SHEET 74	E

2

2

LEGEND

- AG01 BASE AGGREGATE 3/4-INCH
- AP15 HMA PAVEMENT 4LT 58-28S, 2-INCH
- AP37 HMA PAVEMENT TYPE, 5-INCH
- BG11 MGS THRIE BEAM TRANSITION
- BG12 MGS GUARDRAIL 3
- CM14 CONCRETE BASE 9-INCH
- CB07 CONCRETE BARRIER TYPE S56
- CP04 CONCRETE PAVEMENT 9-INCH, DOWELED AND TINED
- CP13 CONCRETE PAVEMENT 11-INCH, DOWELED AND TINED
- SW01 SAWING ASPHALT
- GUARDRAIL MOW STRIP EMULSIFIED ASPHALT

N

257WB 258WB 259WB 260WB 261WB

CB07 CP13 CP13 CP13 CP13 CP13 CP13 CP04 CP04 CP13 CP13

257EB 258EB 259EB 260EB 261EB

STH 441 NB/USH 10 EB

2' 12' 12' 12' 12' 14' 10'

257MNE

MIDWAY RD NE RAMP

AP15 OVER CM14

15' 10'

EB+50.35
24.00' RT

MNE+48.49
0.00'

EB+74.93
38.00' RT

MNE+48.49
15.00' RT

MNE+48.49
22.00' RT

EB+74.93
47.00' RT

R-70-142

MNE+26.85
37.65' RT

MNE+25.24
39.78' RT

MNE+34.82
55.16' RT

SW01

CB05

EB+00.00
38.00' RT

EB+11.60
38.00' RT

AP37

10'

EB+00.00
47.00' RT

EB+00.00
53.50' RT

AG01

4'

BG12

BG11

EB+11.60
72.35' RT

CONCRETE SURFACE DRAIN

EB+09.53
72.34' RT

262+00.00 MATCH LINE

256+00.00 MATCH LINE

PROJECT NO: 1517-75-72	HWY: STH 441/USH 10	COUNTY: WINNEBAGO	PLAN DETAILS	SHEET 75	E

FILE NAME : S:\PDS\C3D\WIS441\15177570_72_77_85\SHEETSPLAN\1517-75-72\021200-PD\NE-15177572-021201-PD.DWG
LAYOUT NAME - 021208-PD

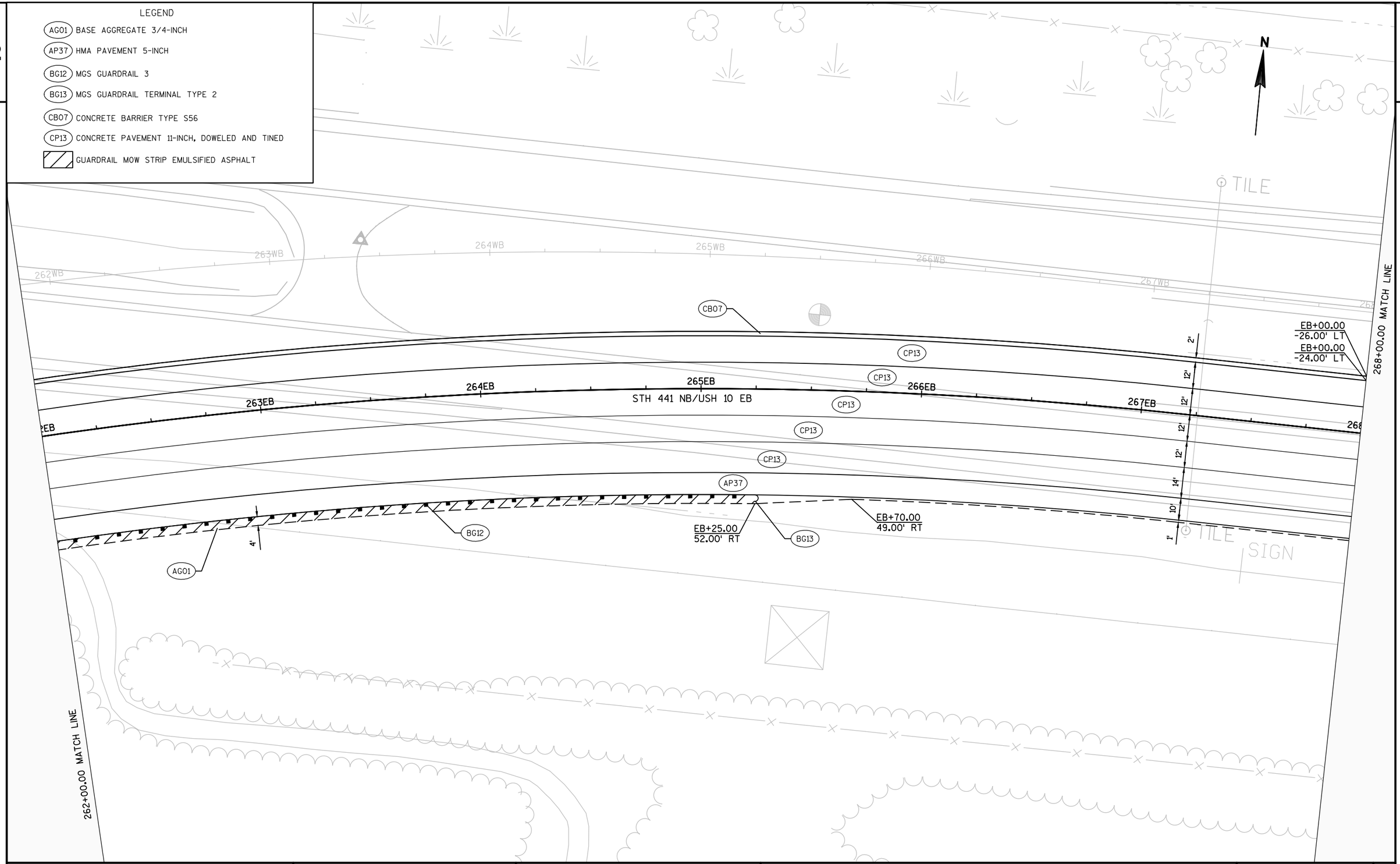
PLOT DATE : 2/9/2017 12:44 PM PLOT BY : MARTENS, JOHN M PLOT NAME : PLOT SCALE : 1 IN:40 FT

WISDOT/CADDS SHEET 42

2

LEGEND

- AG01 BASE AGGREGATE 3/4-INCH
- AP37 HMA PAVEMENT 5-INCH
- BG12 MGS GUARDRAIL 3
- BG13 MGS GUARDRAIL TERMINAL TYPE 2
- CB07 CONCRETE BARRIER TYPE S56
- CP13 CONCRETE PAVEMENT 11-INCH, DOWELED AND TINED
- GUARDRAIL MOW STRIP EMULSIFIED ASPHALT



PROJECT NO: 1517-75-72	HWY: STH 441/USH 10	COUNTY: WINNEBAGO	PLAN DETAILS	SHEET 76	E

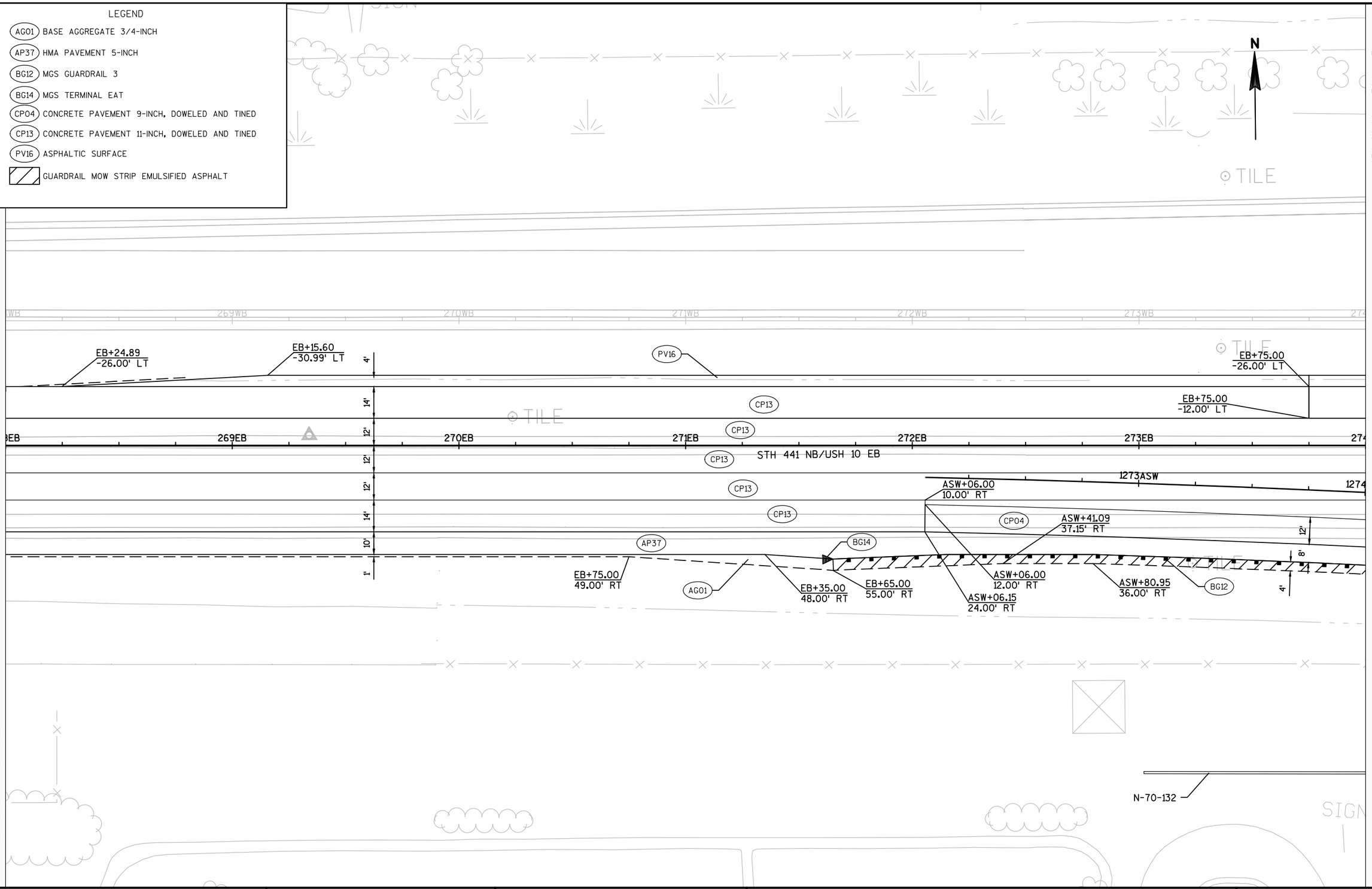
FILE NAME : S:\PDS\C3D\WIS441\15177570_72_77_85\SHEETSPLAN\1517-75-72\021200-PD\NE-15177572-021201-PD.DWG
LAYOUT NAME - 021209-PD

PLOT DATE : 2/9/2017 12:44 PM PLOT BY : MARTENS, JOHN M PLOT NAME : PLOT SCALE : 1 IN:40 FT

WISDOT/CADDS SHEET 42

LEGEND

- AG01 BASE AGGREGATE 3/4-INCH
- AP37 HMA PAVEMENT 5-INCH
- BG12 MGS GUARDRAIL 3
- BG14 MGS TERMINAL EAT
- CP04 CONCRETE PAVEMENT 9-INCH, DOWELED AND TINED
- CP13 CONCRETE PAVEMENT 11-INCH, DOWELED AND TINED
- PV16 ASPHALTIC SURFACE
- GUARDRAIL MOW STRIP EMULSIFIED ASPHALT



PROJECT NO: 1517-75-72	HWY: STH 441/USH 10	COUNTY: WINNEBAGO	PLAN DETAILS	SHEET 77	E

2

LEGEND

- AG01 BASE AGGREGATE 3/4-INCH
- AP15 HMA PAVEMENT 4LT 58-28S, 2-INCH
- AP37 HMA PAVEMENT 5-INCH
- BG12 MGS GUARDRAIL 3
- BG13 MGS GUARDRAIL TERMINAL TYPE 2
- CM14 CONCRETE BASE 9-INCH
- CP04 CONCRETE PAVEMENT 9-INCH, DOWELED AND TINED
- CP13 CONCRETE PAVEMENT 11-INCH, DOWELED AND TINED
- PV16 ASPHALTIC SURFACE
- GUARDRAIL MOW STRIP EMULSIFIED ASPHALT

N

280+00.00 MATCH LINE

APPLETON RD NW RAMP

TILE

INL

TILE

275WB 276WB 277WB 278WB 279WB

PV16 4'

EB+49.00 -30.97' LT

EB+49.00 -26.00' LT

14'

EB+01.60 -12.00' LT

CP13

TILE

275EB 276EB 277EB 278EB 279EB

12'

CP13

STH 441 NB/USH 10 EB

12'

EB+01.60 11.99' RT

CP13

EB+01.60 24.00' RT

ASW

1275ASW

EB+66.53 24.00' RT

EB+61.56 36.00' RT

ASW+86.94 -9.99' LT

12'

ASW+66.59 0.00'

ASW+01.84 -0.02' LT

CP04

1276ASW

AP15 OVER CM14

EB+66.53 26.00' RT

ASW+50.00 -3.00' LT

AP37

10'

1277ASW

R3'

R3'

ASW+87.18 -7.00' LT

ASW+50.00 -4.00' LT

AG01

1'

CP04

12'

12'

ASW+62.14 -3.00' LT

1278ASW

1279ASW

ASW+86.79 -3.96' LT

AP37

ASW+50.00 12.00' RT

1280A

AP37

8"

SIGN

APPLETON RD SW RAMP

BG12

4"

AG01

ASW+62.14 -6.00' LT

BG13

ASW+75.00 36.00' RT

ASW+05.00 32.00' RT

ASW+50.00 24.00' RT

ASW+05.00 34.00' RT

ASW+50.00 32.00' RT

TOWER

N-70-132

274+00.00 MATCH LINE

PROJECT NO: 1517-75-72	HWY: STH 441/USH 10	COUNTY: WINNEBAGO	PLAN DETAILS	SHEET 78	E

FILE NAME : S:\PDS\C3D\WIS441\15177570_72_77_85\SHEETSPLAN\1517-75-72\021200-PD\NE-15177572-021201-PD.DWG
LAYOUT NAME - 021211-PD

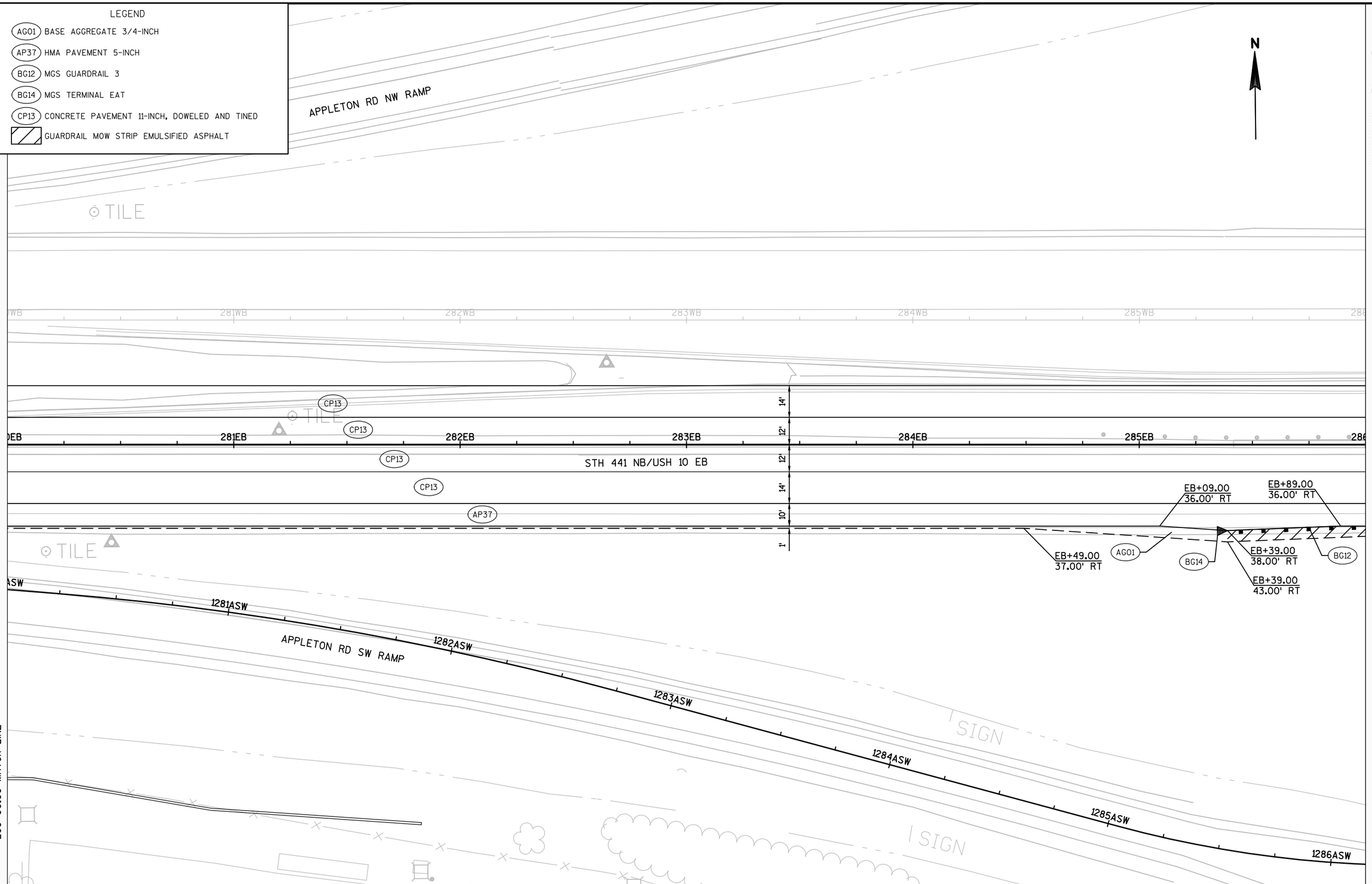
PLOT DATE : 2/9/2017 12:44 PM PLOT BY : MARTENS, JOHN M PLOT NAME : PLOT SCALE : 1 IN:40 FT

WISDOT/CADDS SHEET 42

2

LEGEND

- AG01 BASE AGGREGATE 3/4-INCH
- AP37 HMA PAVEMENT 5-INCH
- BG12 MGS GUARDRAIL 3
- BG14 MGS TERMINAL EAT
- CP13 CONCRETE PAVEMENT 11-INCH, DOWELED AND TINED
- GUARDRAIL MOW STRIP EMULSIFIED ASPHALT



2

PROJECT NO: 1517-75-72	HWY: STH 441/USH 10	COUNTY: WINNEBAGO	PLAN DETAILS	SHEET 79	E

LEGEND

- AG01 BASE AGGREGATE 3/4-INCH
- AP37 HMA PAVEMENT 5-INCH
- BG11 MGS THRIE BEAM TRANSITION
- BG12 MGS GUARDRAIL 3
- CP13 CONCRETE PAVEMENT 11-INCH, DOWELED AND TINED
- PV01 CONCRETE PAVEMENT APPROACH SLAB
- GUARDRAIL MOW STRIP EMULSIFIED ASPHALT

2

2

N

APPLETON RD

MWEL
MWEL

SIGN

INL

287WB 288WB 289WB 290WB 291WB 292WB

EB+83.13
-26.00' LT

EB+33.13
-26.00' LT

EB+33.36
-12.00' LT

EB+33.56
0.00'

EB+33.76
12.00' RT

EB+33.86
26.00' RT

EB+14.00
40.00' RT

EB+83.13
36.00' RT

EB+34.16
36.00' RT

EB+34.16
40.00' RT

287EB 288EB 289EB 290EB 291EB 292EB

14'
12'
12'
14'
10'
4'

CP13 CP13 CP13 AP37 AG01 BG12 BG11

PV01 PV01 PV01 PV01

STH 441 NB/USH 10 EB

MH

TOWER

286+00.00 MATCH LINE

1287ASW
APPLETON RD SW RAMP
1288ASW

PROJECT NO: 1517-75-72	HWY: STH 441/USH 10	COUNTY: WINNEBAGO	PLAN DETAILS	SHEET 80	E

FILE NAME : S:\PDS\C3D\WIS441\15177570_72_77_85\SHEETSPLAN\1517-75-72\021200-PD\NE-15177572-021201-PD.DWG
LAYOUT NAME - 021213-PD

PLOT DATE : 2/9/2017 12:44 PM PLOT BY : MARTENS, JOHN M PLOT NAME : PLOT SCALE : 1 IN:40 FT

2

RICHARD DR

30 FT UTILITY CORRIDOR

AREA 1

AREA 2

STH 441 NB/ USH10 EB

226EB
228EB
230EB
232EB
234EB
236EB
238EB
240

224WB
226WB
228WB
230WB
232WB
234WB

CANADIAN NATIONAL

EB+00.00 -20.04' LT
EB+50.00 -18.76' LT
EB+00.00 -17.80' LT
EB+50.00 -17.15' LT
EB+00.00 -16.84' LT
EB+50.00 -17.07' LT
EB+00.00 -17.88' LT
EB+50.00 -19.27' LT
EB+00.00 -21.23' LT
EB+50.00 -23.77' LT
EB+50.00 -30.58' LT
EB+00.00 -34.86' LT
EB+50.00 -39.68' LT
EB+00.00 -39.62' LT
EB+50.00 -39.28' LT
EB+00.00 -46.47' LT
EB+50.00 -77.40' LT
EB+00.00 -89.30' LT
EB+35.00 -95.37' LT
EB+50.00 -97.97' LT
EB+00.00 -109.09' LT
EB+65.00 -101.31' LT
EB+50.00 124.67' LT

EB+50.00 94.99' RT
EB+00.00 96.21' RT
EB+50.00 95.62' RT
EB+00.00 93.64' RT
EB+50.00 89.41' RT
EB+00.00 88.67' RT
EB+50.00 91.22' RT
EB+00.00 94.23' RT
EB+50.00 97.39' RT
EB+00.00 100.88' RT
EB+50.00 104.20' RT
EB+00.00 107.33' RT
EB+50.00 110.26' RT
EB+00.00 113.03' RT
EB+50.00 116.61' RT
EB+00.00 121.82' RT
EB+50.00 126.77' RT
EB+00.00 134.09' RT
EB+50.00 83.38' RT
EB+35.01 82.35' RT
EB+50.00 76.52' RT
EB+65.00 84.31' RT
EB+00.00 86.49' RT
EB+50.00 89.31' RT

SG

R-70-150

STRIP DRAINS, AREA 1
1 FT DRAINAGE BLANKET PREFABRICATED VERTICAL DRAINS
PRE-BORED TO ELEVATION 755, 6-INCH GEOCOMPOSITE STRIP DRAINS

NOTE: NO PREFABRICATED VERTICAL AND 6-INCH GEOCOMPOSITE
STRIP DRAINS IN UTILITY CORRIDOR

STRIP DRAINS, AREA 2

LEGEND

- SG — SETTLEMENT GAUGES
- PM/SG — PIEZOMETERS AND SETTLEMENT GAUGES
- IM — INCLINOMETERS
- STRIP DRAINS

PROJECT NO: 1517-75-72	HWY: STH 441/USH 10	COUNTY: WINNEBAGO	STRIP DRAINS-STAGE 1A	SHEET 81	E

FILE NAME : S:\PDS\C3D\WIS441\15177570_72_77_85\SHEETSPLAN\1517-75-72\021250-WD\NE-15177572-021251-WD1A.DWG
LAYOUT NAME - 021251-WD1A
PLOT DATE : 2/9/2017 7:35 AM PLOT BY : MARTENS, JOHN M PLOT NAME : PLOT SCALE : 1 IN:100 FT
WISDOT/CADDS SHEET 42

2

STRIP DRAINS, AREA 3

STRIP DRAINS, AREA 4

2 FT DRAINAGE BLANKET PREFABRICATED VERTICAL DRAINS PRE-BORED TO ELEVATION 755

STRIP DRAINS, AREA 2
1 FT DRAINAGE BLANKET
PREFABRICATED VERTICAL DRAINS
PRE-BORED TO ELEVATION 755,
6-INCH GEOCOMPOSITE STRIP DRAINS

STRIP DRAINS, AREA 5
1 FT DRAINAGE BLANKET PREFABRICATED VERTICAL DRAINS
PRE-BORED TO ELEVATION 755, 6-INCH GEOCOMPOSITE STRIP DRAINS

STRIP DRAINS, AREA 6
1 FT DRAINAGE BLANKET
PREFABRICATED VERTICAL DRAINS
PRE-BORED TO ELEVATION 755,
6-INCH GEOCOMPOSITE STRIP DRAINS

AREA 2
AREA 3
AREA 4
AREA 5
AREA 6

EB+00.00 -138.30' LT
EB+00.00 -142.10' LT
EB+36.58 -113.77' LT
EB+00.00 -218.87' LT
EB+50.00 -219.91' LT
EB+00.00 -217.42' LT
EB+50.00 -217.66' LT
EB+00.00 -216.59' LT
EB+50.00 -215.96' LT
EB+00.00 -214.33' LT
EB+50.00 -214.30' LT
EB+00.00 -216.52' LT
EB+00.00 -277.85' LT
EB+50.00 -302.41' LT
EB+00.00 -320.25' LT
EB+50.00 -329.96' LT
EB+00.00 -337.50' LT
EB+50.00 -328.54' LT
EB+50.00 -339.79' LT
EB+00.00 -336.57' LT
EB+50.00 -322.77' LT
EB+50.00 -327.50' LT
EB+00.00 -304.48' LT
EB+50.00 -315.12' LT
EB+00.00 -324.00' LT
EB+50.00 -290.59' LT
EB+00.00 -228.62' LT
EB+55.15 -224.41' LT
EB+00.00 -222.37' LT
EB+00.00 -194.16' LT
EB+50.00 -207.22' LT
EB+50.00 -162.82' LT
EB+00.00 -134.70' LT
EB+50.00 -107.93' LT
EB+00.00 -85.38' LT
EB+50.00 -62.90' LT
EB+00.00 -36.94' LT
EB+16.07 31.11' LT
EB+14.55 -8.18' LT
EB+92.15 30.23' LT
EB+73.00 46.94' RT
EB+52.66 63.38' RT
EB+38.37 67.45' RT
EB+22.93 93.00' RT
EB+00.00 72.78' RT
EB+50.00 58.05' RT
EB+50.00 110.78' RT
EB+00.00 104.03' RT
EB+50.00 96.58' RT

B-70-424
B-70-423
R-70-151
R-70-150
R-70-142

PM/SG
IM
SG

MIDWAY RD
STH 441 NB/ USH10 EB
MIDWAY RD NE RAMP

242EB
244EB
246EB
248EB
250EB
252EB
246WB
248WB
250WB
252WB
246MNE
248MNE
250MNE
252MNE

PREVIOUSLY PLACED
WICK DRAINS

LEGEND

- SG — SETTLEMENT GAUGES
- PM/SG — PIEZOMETERS AND SETTLEMENT GAUGES
- IM — INCLINOMETERS
- STRIP DRAINS

PROJECT NO: 1517-75-72	HWY: STH 441/USH 10	COUNTY: WINNEBAGO	STRIP DRAINS-STAGE 1A	SHEET 82	E

FILE NAME : S:\PDS\C3D\WIS441\15177570_72_77_85\SHEETSPLAN\1517-75-72\021250-WD\NE-15177572-021251-WD1A.DWG
LAYOUT NAME - 021252-WD1A

PLOT DATE : 2/27/2017 7:59 AM PLOT BY : MARTENS, JOHN M PLOT NAME : PLOT SCALE : 1 IN:100 FT

2

STRIP DRAINS, AREA 7
1 FT DRAINAGE BLANKET PREFABRICATED VERTICAL DRAINS
PRE-BORED TO ELEVATION 755, 6-INCH GEOCOMPOSITE STRIP DRAINS

PREVIOUSLY PLACED WICK DRAINS

EB+31.49 -204.12' LT
EB+50.00 -202.25' LT
EB+00.00 -178.25' LT
EB+50.00 -156.99' LT
EB+00.00 -135.78' LT
EB+50.00 -116.29' LT
EB+00.00 -99.25' LT
EB+50.00 -81.82' LT
EB+00.00 -70.40' LT

EB+31.08 -75.24' LT
EB+00.00 -58.06' LT
EB+50.00 -31.97' LT
EB+00.00 -2.70' LT
EB+50.00 13.11' RT
EB+00.00 42.32' RT

AREA 7
AREA 6

254WB
256EB
258EB
260EB
262EB
262WB
264EB
264WB
266EB
266WB
268EB
268WB

STH 441 NB/ USH10 EB

EB+00.00 68.26' RT
EB+50.00 68.64' RT
EB+00.00 64.74' RT
EB+50.00 58.51' RT
EB+00.00 56.30' RT
EB+50.00 57.97' RT
EB+00.00 59.33' RT
EB+50.00 65.17' RT
EB+50.00 67.43' RT
EB+00.00 71.61' RT
EB+50.00 87.42' RT
EB+00.00 89.87' RT

R-70-142

PM/SG

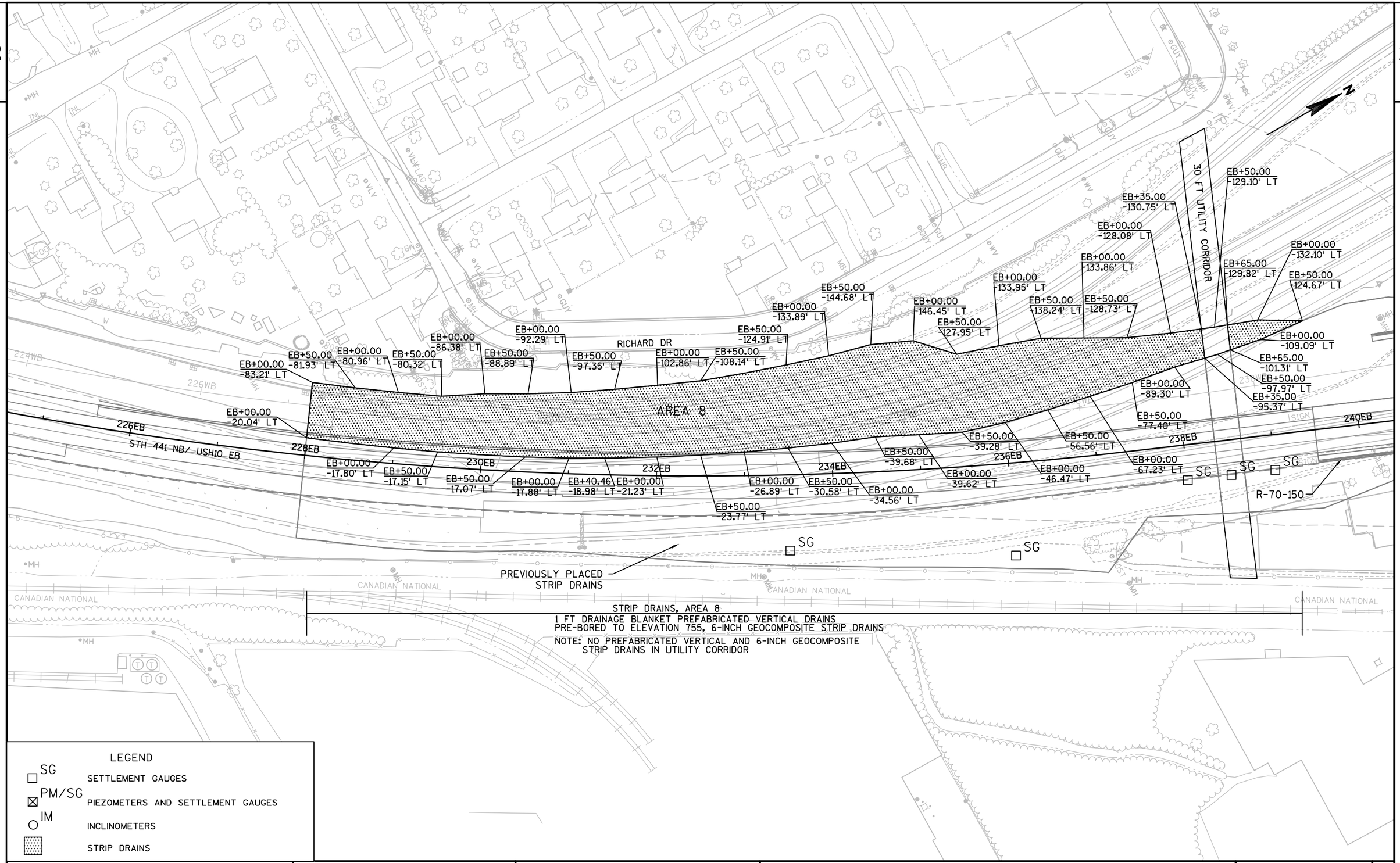
STRIP DRAINS, AREA 6
1 FT DRAINAGE BLANKET PREFABRICATED VERTICAL DRAINS
PRE-BORED TO ELEVATION 755, 6-INCH GEOCOMPOSITE STRIP DRAINS

LEGEND

- SG — SETTLEMENT GAUGES
- PM/SG — PIEZOMETERS AND SETTLEMENT GAUGES
- IM — INCLINOMETERS
- STRIP DRAINS

PROJECT NO:1517-75-72	HWY: STH 441/USH 10	COUNTY: WINNEBAGO	STRIP DRAINS-STAGE 1A	SHEET 83 E

2



STRIP DRAINS, AREA 8
1 FT DRAINAGE BLANKET PREFABRICATED VERTICAL DRAINS
PRE-BORED TO ELEVATION 755, 6-INCH GEOCOMPOSITE STRIP DRAINS
NOTE: NO PREFABRICATED VERTICAL AND 6-INCH GEOCOMPOSITE STRIP DRAINS IN UTILITY CORRIDOR

LEGEND

SG	SETTLEMENT GAUGES
PM/SG	PIEZOMETERS AND SETTLEMENT GAUGES
IM	INCLINOMETERS
	STRIP DRAINS

PROJECT NO: 1517-75-72	HWY: STH 441/USH 10	COUNTY: WINNEBAGO	STRIP DRAINS-STAGE 2A	SHEET 84	E

FILE NAME : S:\PDS\C3D\WIS441\15177570_72_77_85\SHEETSPLAN\1517-75-72\021250-WD\NE-15177572-021261-WD2A.DWG
LAYOUT NAME - 021261-WD2A
PLOT DATE : 2/9/2017 7:36 AM PLOT BY : MARTENS, JOHN M PLOT NAME : PLOT SCALE : 1 IN:100 FT

STRIP DRAINS, AREA 9
1 FT DRAINAGE BLANKET PREFABRICATED VERTICAL DRAINS
PRE-BORED TO ELEVATION 755, 6-INCH GEOCOMPOSITE STRIP DRAINS

EB+31.49 -204.12' LT
EB+50.00 -207.89' LT
EB+00.00 -198.00' LT
EB+50.00 -202.25' LT
EB+00.00 -178.25' LT
EB+50.00 -175.44' LT
EB+50.00 -156.99' LT
EB+00.00 -155.19' LT
EB+00.00 -135.78' LT
EB+50.00 -136.45' LT
EB+50.00 -116.29' LT
EB+00.00 -123.11' LT
EB+00.00 -99.25' LT
EB+50.00 -115.46' LT
EB+50.00 -81.82' LT
EB+00.00 -103.25' LT
EB+00.00 -70.40' LT

AREA 9

PREVIOUSLY PLACED WICK DRAINS

PM/SG
PM/SG
SG

254EB 256EB 258EB 260EB 262EB 264EB 266EB 268EB

STH 441 NB/ USH10 EB
MIDWAY RD NE RAMP

R-70-142

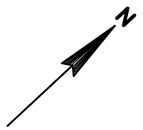
LEGEND
SG SETTLEMENT GAUGES
PM/SG PIEZOMETERS AND SETTLEMENT GAUGES
IM INCLINOMETERS
STRIP DRAINS

PROJECT NO:1517-75-72	HWY: STH 441/USH 10	COUNTY: WINNEBAGO	STRIP DRAINS-STAGE 2A	SHEET 85	E

FILE NAME : S:\PDS\C3D\WIS441\15177570_72_77_85\SHEETSPLAN\1517-75-72\021250-WD\NE-15177572-021261-WD2A.DWG
LAYOUT NAME - 021263-WD2A
PLOT DATE : 2/9/2017 7:36 AM PLOT BY : MARTENS, JOHN M PLOT NAME : PLOT SCALE : 1 IN:100 FT

WISDOT/CADDS SHEET 42

2



R/L USH 10 EB/STH 441 NB

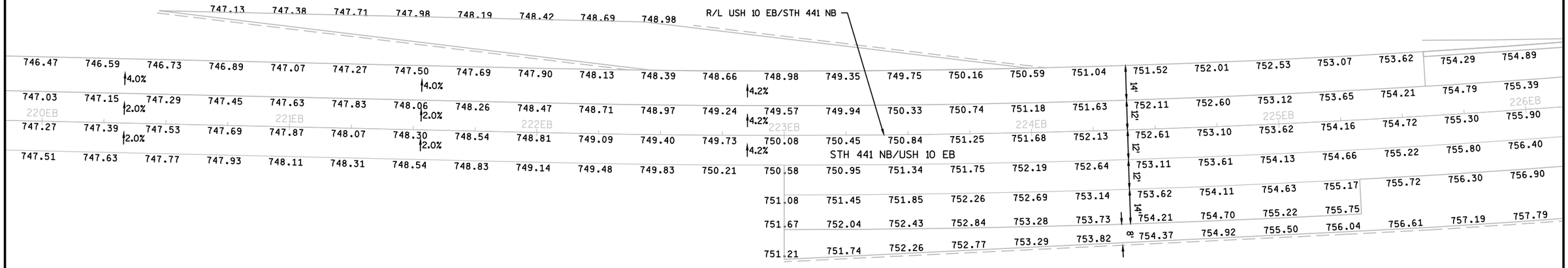
214EB 215EB 216EB 217EB 218EB 219EB 220EB

STH 441 NB/USH 10 EB

					746.24	746.21	746.20	746.21	746.24	746.30	746.38	746.47
					14'			4.0%				
747.25	747.12	747.01	746.92	746.84	746.79	746.77	746.76	746.77	746.80	746.86	746.94	747.03
12'								2.0%				
747.49	747.35	747.24	747.15	747.08	747.03	747.00	747.00	747.01	747.04	747.10	747.18	747.27
12'								2.0%				
747.72	747.59	747.47	747.38	747.32	747.27	747.24	747.23	747.25	747.28	747.34	747.42	747.51

PROJECT NO: 1517-75-72	HWY: STH 441/USH 10	COUNTY: WINNEBAGO	PAVEMENT GRADES	SHEET 86	E

2



PROJECT NO: 1517-75-72	HWY: STH 441/USH 10	COUNTY: WINNEBAGO	PAVEMENT GRADES	SHEET 87	E

2

N

R/L USH 10 EB/STH 441 NB

STH 441 NB/USH 10 EB

754.89	755.49	756.10	756.70	757.31	757.91	758.52	759.12	759.73	760.33	760.94	2'	761.54	762.14	762.75	763.35	763.96	764.56	765.17	765.77	766.38	766.98	767.59	768.19	768.80	769.40
755.39	756.00	756.60	757.21	757.81	758.42	759.02	759.62	760.23	760.83	761.44	12'	762.04	762.65	763.25	763.86	764.46	765.07	765.67	766.28	766.88	767.49	768.09	768.70	769.30	769.91
226EB				227EB				228EB					229EB				230EB				231EB				232EB
755.90	756.50	757.11	757.71	758.31	758.92	759.52	760.13	760.73	761.34	761.94	12'	762.55	763.15	763.76	764.36	764.97	765.57	766.18	766.78	767.39	767.99	768.60	769.20	769.81	770.41
756.40	757.00	757.61	758.21	758.82	759.42	760.03	760.63	761.24	761.84	762.45	12'	763.05	763.66	764.26	764.87	765.47	766.08	766.68	767.29	767.89	768.50	769.10	769.70	770.31	770.91
756.90	757.51	758.11	758.72	759.32	759.93	760.53	761.14	761.74	762.35	762.95	12'	763.56	764.16	764.77	765.37	765.98	766.58	767.18	767.79	768.39	769.08	769.69	770.29	770.90	771.50
757.79	758.39	759.00	759.60	760.20	760.81	761.41	762.02	762.62	763.23	763.83	21'	764.44	765.04	765.65	766.25	766.86	767.46	768.07	768.67	769.28	769.88	770.49	771.09	771.70	772.30

PROJECT NO: 1517-75-72	HWY: STH 441/USH 10	COUNTY: WINNEBAGO	PAVEMENT GRADES	SHEET 88	E

FILE NAME : S:\PDS\C3D\WIS441\15177570_72_77_85\SHEETSPLAN\1517-75-72\021300-PG\NE-15177572-021301-PG.DWG
LAYOUT NAME - 021303-PG
PLOT DATE : 2/10/2017 8:37 AM PLOT BY : MARTENS, JOHN M PLOT NAME : PLOT SCALE : 1 IN:40 FT
WISDOT/CADDS SHEET 42

2

N

R/L USH 10 EB/STH 441 NB

STH 441 NB/USH 10 EB

769.40	770.01	770.61	771.22	771.82	772.43	773.03	773.63	774.21	774.79	775.36	775.91	776.45	776.99	777.51	778.02	778.52	779.01	779.49	4.2%	780.00	780.56	781.11	781.65	782.17	782.69
769.91	770.51	771.12	771.72	772.33	772.93	773.53	774.13	774.72	775.29	775.86	776.41	776.96	777.49	778.01	778.53	779.03	779.52	780.00	4.2%	780.49	781.00	781.49	781.98	782.46	782.92
232EB				233EB				234EB				235EB				236EB					237EB				238EB
770.41	771.02	771.62	772.22	772.83	773.43	774.04	774.64	775.22	775.80	776.36	776.92	777.46	778.00	778.52	779.03	779.53	780.02	780.50	4.2%	780.97	781.43	781.88	782.31	782.74	783.15
770.91	771.52	772.12	772.73	773.33	773.94	774.54	775.14	775.73	776.30	776.87	777.42	777.97	778.50	779.02	779.53	780.03	780.52	781.00	4.2%	781.45	781.86	782.26	782.64	783.02	783.39
771.50	772.11	772.71	773.32	773.92	774.53	775.13	775.73	776.31	776.89	777.46	778.01	778.55	779.09	779.61	780.12	780.62	781.11	781.59	4.2%	782.01	782.36	782.70	783.03	783.35	783.66
772.30	772.91	773.51	774.11	774.72	775.32	775.93	776.53	777.11	777.68	778.24	778.78	779.31	779.82	780.32	780.81	781.28	781.73	782.19	4.2%	782.56	782.84	783.12	783.39	783.65	783.90

2.0%

PROJECT NO: 1517-75-72	HWY: STH 441/USH 10	COUNTY: WINNEBAGO	PAVEMENT GRADES	SHEET 89	E

FILE NAME : S:\PDS\C3D\WIS441\15177570_72_77_85\SHEETSPLAN\1517-75-72\021300-PG\NE-15177572-021301-PG.DWG
LAYOUT NAME - 021304-PG
PLOT DATE : 2/10/2017 8:37 AM PLOT BY : MARTENS, JOHN M PLOT NAME : PLOT SCALE : 1 IN:40 FT
WISDOT/CADDS SHEET 42

2

PROPOSED 30 FT UTILITY CORRIDOR
STA 238EB+50

R/L USH 10 EB/STH 441 NB

782.69 783.19 783.69 784.17 784.64 785.11 785.56
2.0% 0.0% 2.0%
782.92 783.38 783.82 784.25 784.68 785.09 785.49
2.0% 0.0% 2.0%
783.15 783.56 783.95 784.34 784.71 785.07 785.42
2.0% STH 441 NB/USH 10 EB 0.0% 2.0%
783.39 783.74 784.08 784.42 784.74 785.05 785.35
2.0% 0.0% 2.0%
783.66 783.95 784.24 784.51 784.78 785.03 785.28
1.1% 2.0%
783.90 784.11 784.31 784.51 784.69 784.87 785.04 785.10

786.02 786.46 786.88 787.28
2.0%
785.88 786.26 786.63 786.98
2.0%
785.76 786.09 786.41 786.72
2.0%
785.64 785.92 786.19 786.46
2.0%
785.51 785.73 785.94 786.16
2.0%
785.33 785.55 785.76 785.96

238EB 239EB 240EB 241EB 242EB 243EB 244EB

790.28 790.56 790.66 790.59 790.58 790.54
5.3% 1.4%
789.60 789.84 790.07 790.28 790.48 790.64
5.3% 6.0%
789.01 789.22 789.41 789.59 789.76 789.92
5.3% 6.0%
788.43 788.59 788.75 788.89 789.04 789.20
5.3% 6.0%
787.75 787.87 787.98 788.08 788.20 788.36
5.3% 6.0%
787.31 787.40 787.46 787.50 787.52 787.61

765.54 765.17 764.94 764.87 764.98 765.25 765.70 766.31
765.66 765.29 765.06 764.99 765.10 765.37 765.82 766.43 14.0%
764.97 764.76 764.69 764.80 765.07 765.52 766.13 2.0%
765.42 764.67 764.44 764.37 764.48 764.75 765.20 765.81 4.0%
765.28

PROJECT NO: 1517-75-72	HWY: STH 441/USH 10	COUNTY: WINNEBAGO	PAVEMENT GRADES	SHEET 90	E

2

N

R/L USH 10 EB/STH 441 NB

STH 441 NB/USH 10 EB

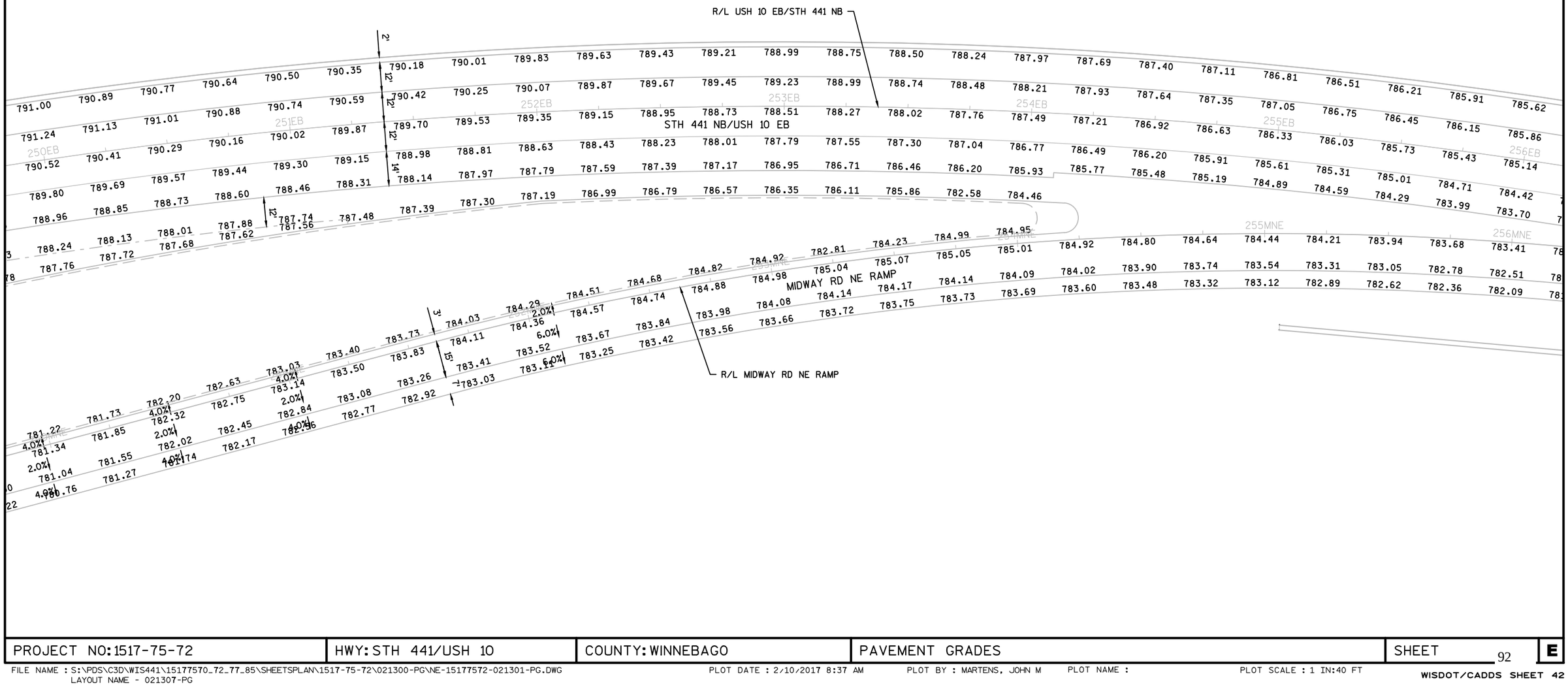
R/L MIDWAY RD NE RAMP

MIDWAY RD NE RAMP

PROJECT NO: 1517-75-72	HWY: STH 441/USH 10	COUNTY: WINNEBAGO	PAVEMENT GRADES	SHEET 91	E

2

2



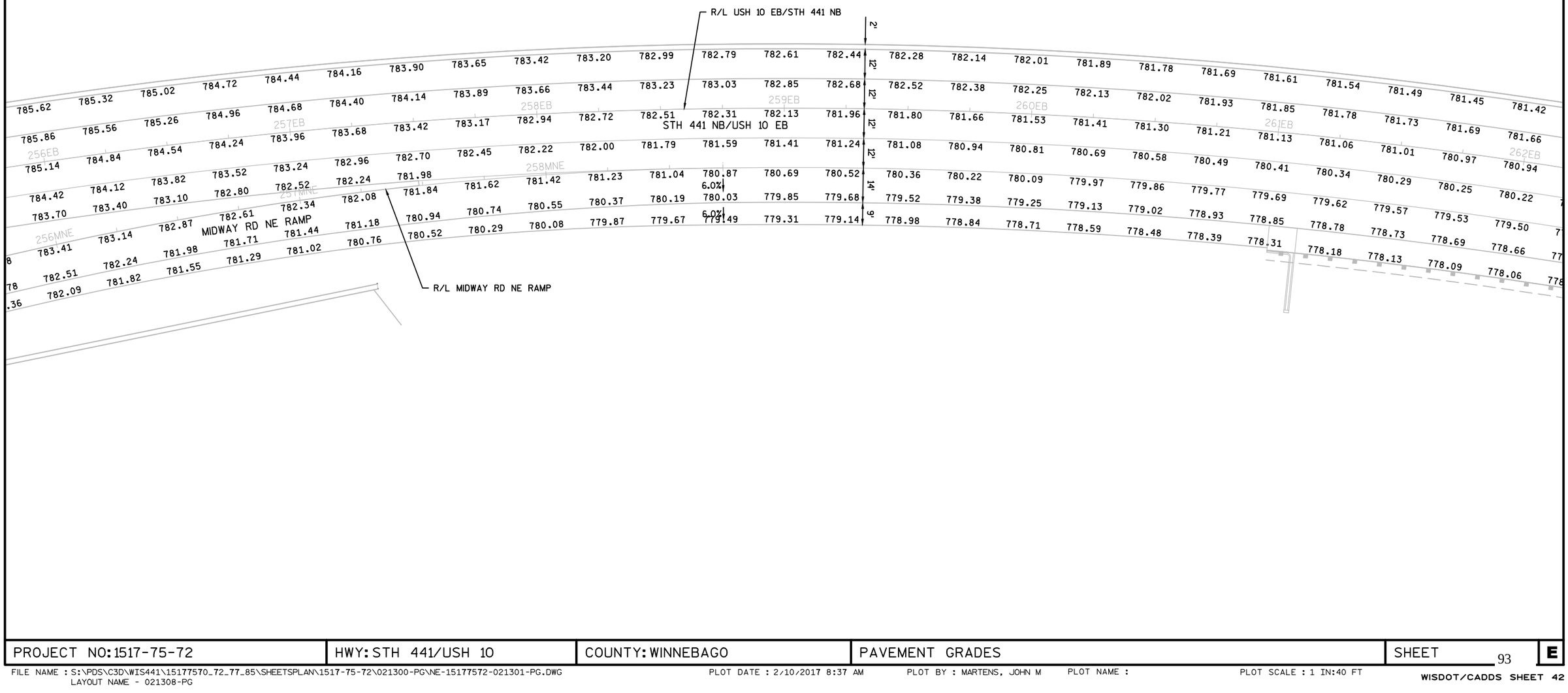
PROJECT NO: 1517-75-72	HWY: STH 441/USH 10	COUNTY: WINNEBAGO	PAVEMENT GRADES	SHEET 92	E

FILE NAME : S:\PDS\C3D\WIS441\15177570_72_77_85\SHEETSPLAN\1517-75-72\021300-PG\NE-15177572-021301-PG.DWG
LAYOUT NAME - 021307-PG

PLOT DATE : 2/10/2017 8:37 AM PLOT BY : MARTENS, JOHN M PLOT NAME : PLOT SCALE : 1 IN:40 FT

WISDOT/CADDS SHEET 42

2



PROJECT NO: 1517-75-72	HWY: STH 441/USH 10	COUNTY: WINNEBAGO	PAVEMENT GRADES	SHEET 93	E

FILE NAME : S:\PDS\C3D\WIS441\15177570_72_77_85\SHEETSPLAN\1517-75-72\021300-PG\NE-15177572-021301-PG.DWG
LAYOUT NAME - 021308-PG
PLOT DATE : 2/10/2017 8:37 AM PLOT BY : MARTENS, JOHN M PLOT NAME : PLOT SCALE : 1 IN:40 FT
WISDOT/CADDS SHEET 42

2

N

R/L USH 10 EB/STH 441 NB

STH 441 NB/USH 10 EB

262EB	263EB	264EB	265EB	266EB	267EB	268EB
781.42	781.41	781.40	781.41	781.44	781.48	781.52	781.59	781.66	781.75	781.85	781.97	782.09	782.23	782.39	782.55	782.73	782.85	782.98	783.11	783.24	783.37	783.49	783.62	783.75
781.66	781.65	781.64	781.65	781.68	781.72	781.76	781.83	781.90	781.99	782.09	782.21	782.33	782.47	782.63	782.79	782.97	783.12	783.27	783.42	783.58	783.73	783.88	784.04	784.19
780.94	780.93	780.92	780.93	780.96	781.00	781.04	781.11	781.18	781.27	781.37	781.49	781.61	781.75	781.91	782.07	782.25	782.44	782.64	782.85	783.05	783.25	783.46	783.66	783.86
780.22	780.21	780.20	780.21	780.24	780.28	780.32	780.39	780.46	780.55	780.65	780.77	780.89	781.03	781.19	781.35	781.53	781.77	782.02	782.27	782.53	782.78	783.03	783.29	783.54
779.50	779.49	779.48	779.49	779.52	779.56	779.60	779.67	779.74	779.83	779.93	780.05	780.17	780.31	780.47	780.63	780.81	781.09	781.40	781.70	782.00	782.31	782.61	782.91	783.22
778.66	778.65	778.64	778.65	778.68	778.72	778.76	778.83	778.90	778.99	779.09	779.21	779.33	779.47	779.63	779.79	779.97	780.31	780.67	781.03	781.38	781.75	782.11	782.48	782.84
778.06	778.05	778.04	778.05	778.08	778.12	778.16	778.23	778.30	778.39	778.49	778.61	778.73	778.87	779.03	779.19	779.37	779.73	780.11	780.49	780.87	781.25	781.64	782.02	782.40

2' | 12' | 12' | 12' | 12' | 14' | 9'

2.0% | 6.0% | 6.0% | 6.0% | 6.0% | 6.0% | 6.0%

PROJECT NO:1517-75-72	HWY: STH 441/USH 10	COUNTY: WINNEBAGO	PAVEMENT GRADES	SHEET 94	E

2

N

R/L USH 10 EB/STH 441 NB

				784.40	784.61	784.81	785.02	785.23	785.40	785.58	785.79	785.99	786.16	786.34	786.55	786.76	786.94	787.02	787.20	787.39	787.59	787.78	788.00	788.21
783.75	783.80	783.94	784.09	784.24	784.39	784.55	784.70	784.85	785.01	785.16	785.31	785.50	785.71	785.91	786.11	786.32	786.52	786.72	786.93	787.13	787.33	787.54	787.74	787.94
		4.0%					4.0%	14'				4.0%												
784.19	784.34	784.50	784.65	784.80	784.95	785.11	785.26	785.41	785.57	785.72	785.87	786.06	786.27	786.47	786.67	786.88	787.08	787.28	787.49	787.69	787.89	788.10	788.30	788.50
268EB		2.0%		269EB			0.0%	12'	270EB			2.0%	271EB				272EB				273EB				274EB
783.86	784.07	784.27	784.47	784.68	784.88	785.08	785.29	785.49	785.69	785.90	786.10	786.30	786.51	786.71	786.91	787.12	787.32	787.52	787.73	787.93	788.13	788.34	788.54	788.74
		2.0%		STH 441 NB/USH 10 EB			0.0%	12'				2.0%	1271ASW				1272ASW				1273ASW				1274ASW
783.54	783.79	784.05	784.30	784.55	784.81	785.06	785.31	785.57	785.82	786.07	786.33	786.54	786.75	786.95	787.15	787.36	787.56	787.76	787.97	788.17	788.37	788.58	788.78	788.98
		2.0%					2.0%	12'				2.0%												
783.22	783.52	783.81	784.06	784.31	784.57	784.82	785.07	785.33	785.58	785.83	786.08	786.30	786.50	786.71	786.91	787.11	787.32	787.52	787.72	787.93	788.13	788.33	788.54	788.74
		2.0%					2.0%	14'			2.1%						787.27	787.46	787.65	787.83	788.02	788.20	788.38	788.56
782.84	783.20	783.53	783.78	784.03	784.29	784.54	784.79	785.05	785.30	785.55	785.80	786.02	786.22	786.43	786.63	786.83	787.03	787.21	787.40	787.59	787.77	787.96	788.14	788.32
		4.0%					4.0%	11'				4.0%												
782.40	782.78	783.13	783.38	783.63	783.89	784.14	784.39	784.65	784.90	785.15	785.40	785.62	785.82	785.99	786.17	786.41	786.64	786.86	787.08	787.27	787.45	787.64	787.82	788.00

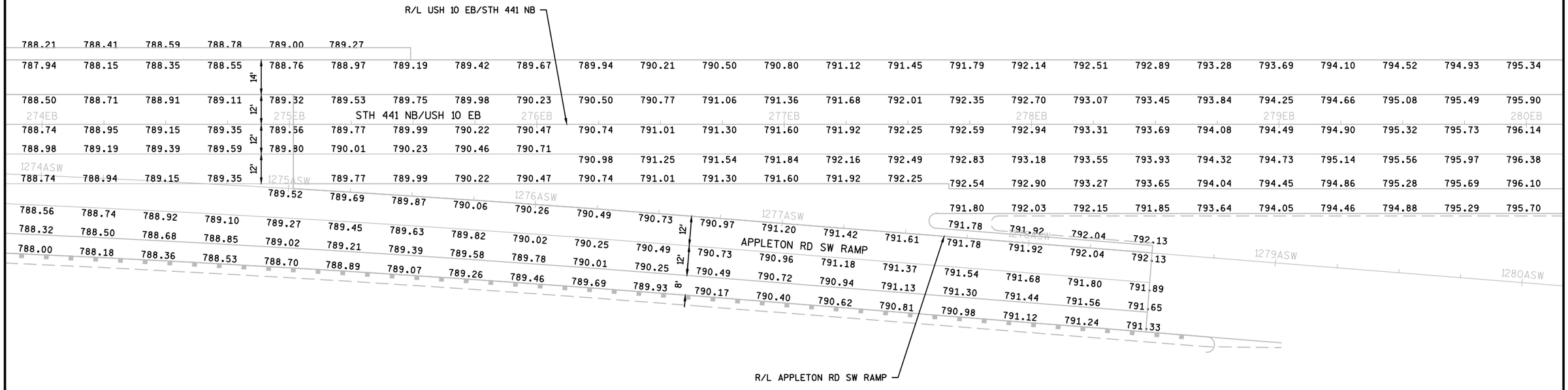
APPLETON RD SW RAMP

R/L APPLETON RD SW RAMP

PROJECT NO: 1517-75-72	HWY: STH 441/USH 10	COUNTY: WINNEBAGO	PAVEMENT GRADES	SHEET 95	E

2

N



PROJECT NO: 1517-75-72	HWY: STH 441/USH 10	COUNTY: WINNEBAGO	PAVEMENT GRADES	SHEET 96	E

2

N

R/L USH 10 EB/STH 441 NB

795.34	795.76	796.17	796.58	797.00	797.41	797.82	798.24	798.65	799.06	799.48	799.89	800.30	800.71	14'	801.10	801.49	801.86	802.22	802.56	802.90	803.22	803.53	803.83	804.12	804.39
795.90	796.32	796.73	797.14	797.56	797.97	798.38	798.80	799.21	799.63	800.04	800.45	800.86	801.27	12'	801.66	802.05	802.42	802.78	803.12	803.46	803.78	804.09	804.39	804.68	804.95
280EB				281EB				282EB				283EB					284EB				285EB				286EB
796.14	796.56	796.97	797.38	797.80	798.21	798.62	799.04	799.45	799.86	800.28	800.69	801.10	801.51	12'	801.90	802.29	802.66	803.02	803.36	803.70	804.02	804.33	804.63	804.92	805.19
										STH 441 NB/USH 10 EB															
796.38	796.80	797.21	797.62	798.04	798.45	798.86	799.28	799.69	800.10	800.52	800.93	801.34	801.75	14'	802.14	802.53	802.90	803.26	803.60	803.94	804.26	804.57	804.87	805.16	805.43
796.10	796.52	796.93	797.34	797.76	798.17	798.58	799.00	799.41	799.82	800.24	800.65	801.06	801.47	11'	801.86	802.25	802.62	802.98	803.32	803.66	803.98	804.29	804.59	804.88	805.15
795.70	796.12	796.53	796.94	797.36	797.77	798.18	798.60	799.01	799.42	799.84	800.25	800.66	801.07		801.46	801.85	802.17	802.44	802.90	803.26	803.58	803.89	804.19	804.48	804.75

1280ASW

1281ASW

1282ASW

1283ASW

1284ASW

1285ASW

1286ASW

R/L APPLETON RD SW RAMP

PROJECT NO:1517-75-72	HWY: STH 441/USH 10	COUNTY: WINNEBAGO	PAVEMENT GRADES	SHEET 97	E

2

N

R/L USH 10 EB/STH 441 NB

804.39	804.65	804.90	805.14	805.37	805.59	805.79	805.98	806.16	806.33
804.95	805.21	805.46	805.70	805.93	806.15	806.35	806.54	806.72	806.89
805.19	805.45	805.70	805.94	806.17	806.39	806.59	806.78	806.96	807.13
805.43	805.69	805.94	806.18	806.41	806.63	806.83	807.02	807.20	807.37
805.15	805.41	805.66	805.90	806.13	806.35	806.55	806.74	806.92	807.09
804.75	805.01	805.26	805.50	805.73	805.95	806.15	806.34	806.52	806.69

14'
12'
12'
12'
14'
10'

STH 441 NB/USH 10 EB

286EB 287EB 288EB 289EB 290EB 291EB 292EB

ASW 1287ASW 1288ASW

PROJECT NO: 1517-75-72	HWY: STH 441/USH 10	COUNTY: WINNEBAGO	PAVEMENT GRADES	SHEET 98	E

FILE NAME : S:\PDS\C3D\WIS441\15177570_72_77_85\SHEETSPLAN\1517-75-72\021300-PG\NE-15177572-021301-PG.DWG
LAYOUT NAME - 021313-PG

PLOT DATE : 2/10/2017 8:38 AM PLOT BY : MARTENS, JOHN M PLOT NAME : PLOT SCALE : 1 IN:40 FT

2

2

N

210EB

212EB

214EB

216EB

218EB

220EB

222EB

224EB

STH 441 NB/ USH10 EB

RACINE RD

CEMETERY

CANADIAN NATIONAL

SLOPE INTERCEPT

LEGEND

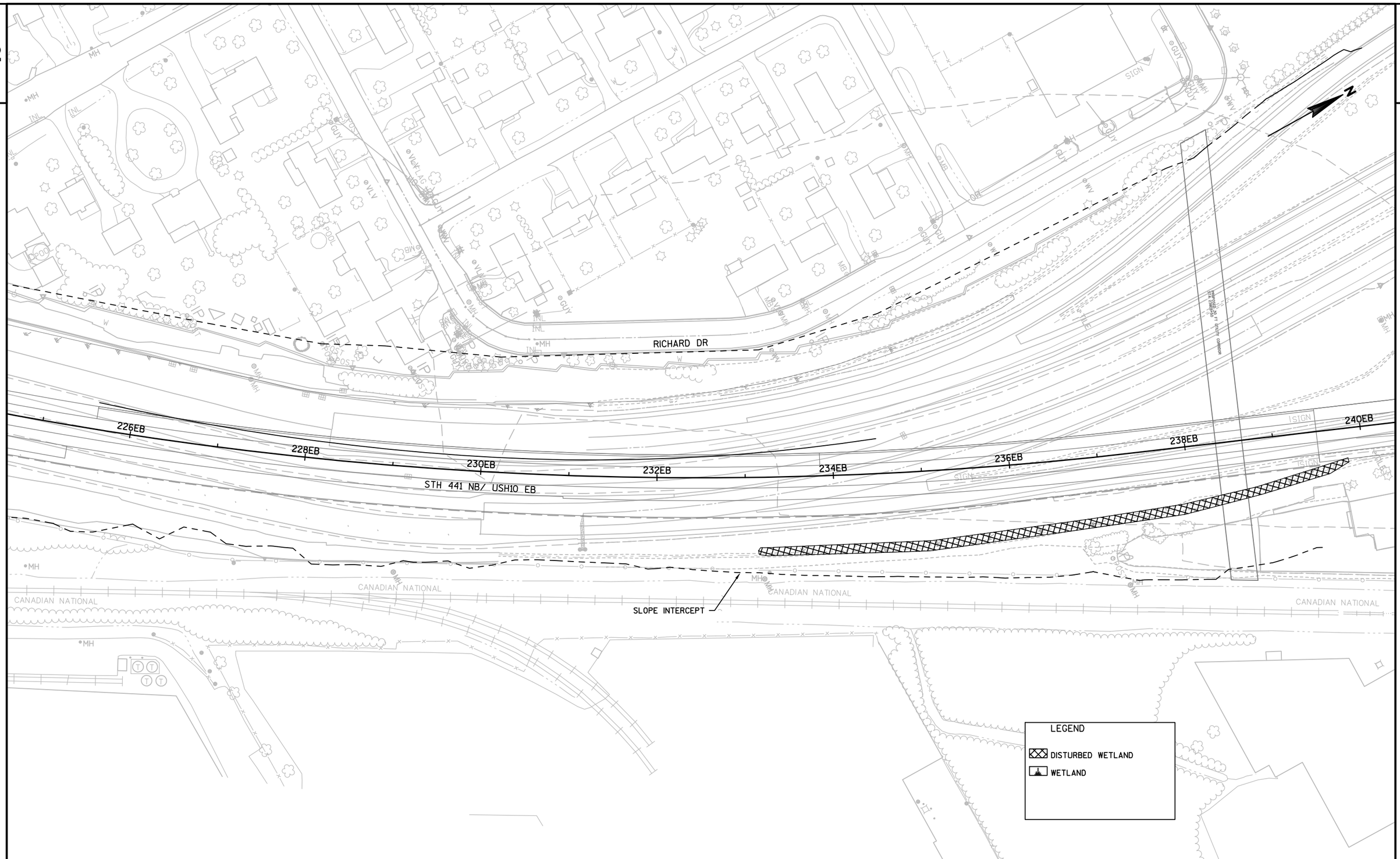
DISTURBED WETLAND

WETLAND

PROJECT NO: 1517-75-72	HWY: STH 441/USH 10	COUNTY: WINNEBAGO	DISTURBED WETLAND AREAS	SHEET 99	E

FILE NAME : S:\PDS\C3D\WIS441\15177570_72_77_85\SHEETSPLAN\1517-75-72\021600-DW\NE-15177572-021601-DW.DWG
LAYOUT NAME - 021601-DW

PLOT DATE : 2/13/2017 6:46 AM PLOT BY : MARTENS, JOHN M PLOT NAME : PLOT SCALE : 1 IN:100 FT



PROJECT NO: 1517-75-72	HWY: STH 441/USH 10	COUNTY: WINNEBAGO	DISTURBED WETLAND AREAS	SHEET 100	E

FILE NAME : S:\PDS\C3D\WIS441\15177570_72_77_85\SHEETSPLAN\1517-75-72\021600-DW\NE-15177572-021601-DW.DWG
LAYOUT NAME - 021602-DW

PLOT DATE : 2/13/2017 6:46 AM PLOT BY : MARTENS, JOHN M PLOT NAME : PLOT SCALE : 1 IN:100 FT

WISDOT/CADDS SHEET 42

2

2

STH 441 NB/ USH10 EB

240EB

242EB

244EB

246EB

248EB

250EB

252EB

254EB

MIDWAY RD

MIDWAY RD NE RAMP

SLOPE INTERCEPT

CANADIAN NATIONAL

LEGEND

DISTURBED WETLAND

WETLAND

PROJECT NO: 1517-75-72	HWY: STH 441/USH 10	COUNTY: WINNEBAGO	DISTURBED WETLAND AREAS	SHEET 101	E

FILE NAME : S:\PDS\C3D\WIS441\15177570_72_77_85\SHEETSPLAN\1517-75-72\021600-DW\NE-15177572-021601-DW.DWG
LAYOUT NAME - 021603-DW

PLOT DATE : 2/13/2017 6:46 AM PLOT BY : MARTENS, JOHN M PLOT NAME : PLOT SCALE : 1 IN:100 FT

WISDOT/CADDS SHEET 42

2

2

N

254EB
256EB
258EB
260EB
262EB
264EB
266EB
268EB

STH 441 NB/ USH10 EB

MIDWAY RD NE RAMP

SLOPE INTERCEPT

LEGEND

DISTURBED WETLAND

WETLAND

PROJECT NO: 1517-75-72	HWY: STH 441/USH 10	COUNTY: WINNEBAGO	DISTURBED WETLAND AREAS	SHEET 102	E

2

2

N

INL
MH
INL
MH
INL
W
W
W
SIGN
SIGN
SIGN
TILE
TILE
TILE
APPLETON RD NW RAMP
TILE
TILE
TILE
TILE
TILE
TILE
INL
268EB
270EB
272EB
274EB
276EB
278EB
280EB
282EB
STH 441 NB/ USH10 EB
TILE
SIGN
APPLETON RD SW RAMP
SLOPE INTERCEPT
SLOPE INTERCEPT
SIGN
TVE
TVE
TVE
INL
INL
INL
INL
INL

LEGEND

DISTURBED WETLAND

WETLAND

PROJECT NO: 1517-75-72	HWY: STH 441/USH 10	COUNTY: WINNEBAGO	DISTURBED WETLAND AREAS	SHEET 103	E

2

2

N

STH 441 NB/ USH10 EB

MIDWAY RD

MIDWAY RD NE RAMP

240EB

242EB

244EB

246EB

248EB

250EB

252EB

254EB

CANADIAN NATIONAL

LEGEND

PHRAGMITES

PURPLE LOOSESTRIFE

TEASEL

WETLAND

PROJECT NO: 1517-75-72	HWY: STH 441/USH 10	COUNTY: WINNEBGA	INVASIVE SPECIES	SHEET 104	E

FILE NAME : S:\PDS\C3D\WIS441\15177570_72_77_85\SHEETSPLAN\1517-75-72\021700-IS\NE-15177572-021701-IS.DWG
LAYOUT NAME - 021701-IS

PLOT DATE : 2/10/2017 8:47 AM PLOT BY : MARTENS, JOHN M PLOT NAME : PLOT SCALE : 1 IN:100 FT

2

2

N

STH 441 NB/ USH10 EB

MIDWAY RD NE RAMP

254EB

256EB

258EB

260EB

262EB

264EB

266EB

268EB

TILE

SIGN

MH

INL

W

LEGEND

PHRAGMITES

PURPLE LOOSESTRIFE

TEASEL

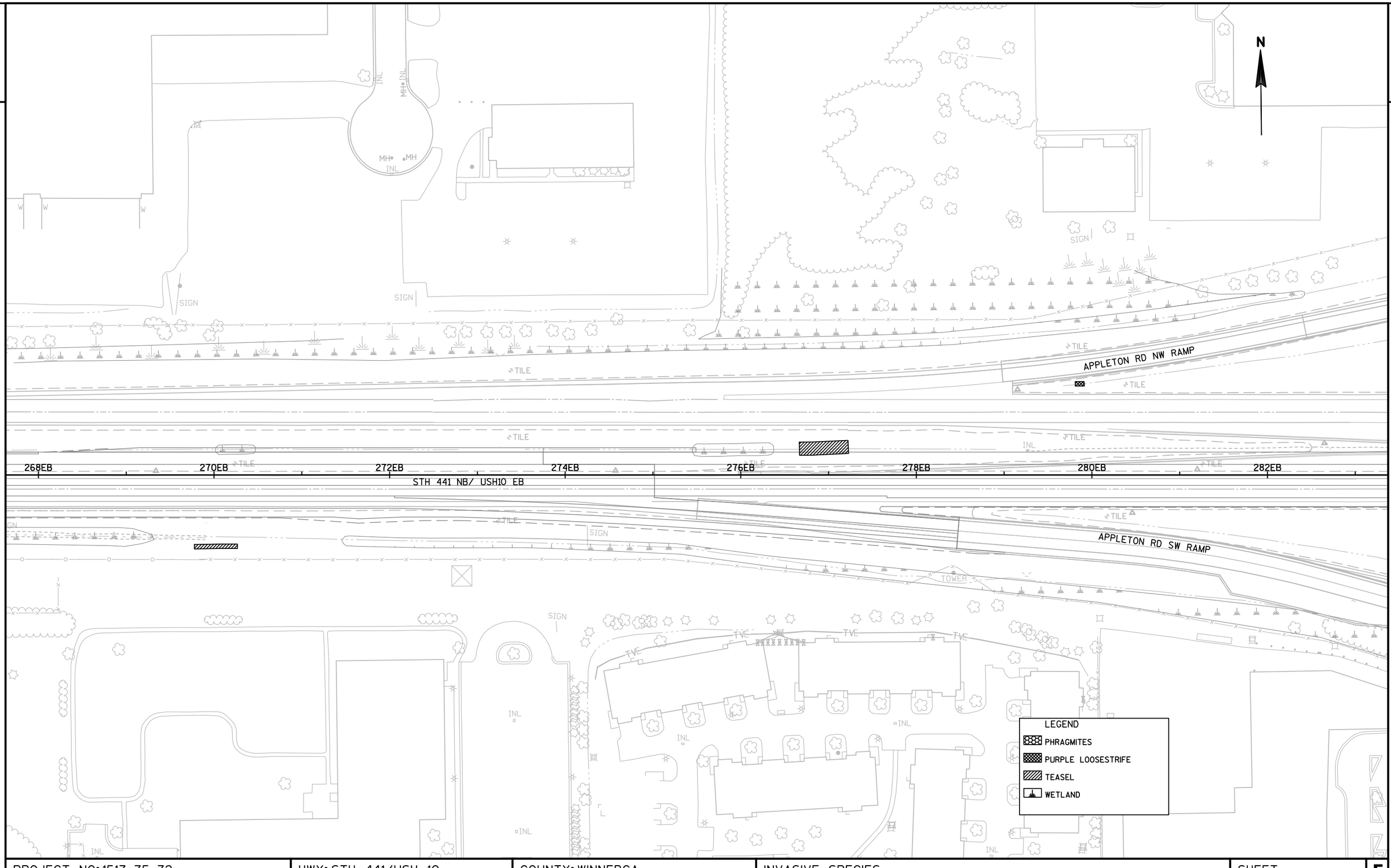
WETLAND

PROJECT NO: 1517-75-72	HWY: STH 441/USH 10	COUNTY: WINNEBGA	INVASIVE SPECIES	SHEET 105	E

FILE NAME : S:\PDS\C3D\WIS441\15177570_72_77_85\SHEETSPLAN\1517-75-72\021700-IS\NE-15177572-021701-IS.DWG
LAYOUT NAME - 021702-IS

PLOT DATE : 2/10/2017 8:47 AM PLOT BY : MARTENS, JOHN M PLOT NAME : PLOT SCALE : 1 IN:100 FT

2



PROJECT NO: 1517-75-72	HWY: STH 441/USH 10	COUNTY: WINNEBGA	INVASIVE SPECIES	SHEET 106	E

2

2

225+00.00 MATCH LINE

RACINE RD

STH 441 NB/ USH10 EB

CEMETERY

CANADIAN NATIONAL

LEGEND

- ###### EROSION MAT CLASS I, TYPE B
- SILT FENCE
- SLOPE INTERCEPT
- INLET PROTECTION
  - (A) TYPE A
  - (B) TYPE B
  - (D) TYPE D
- SURFACE WATER FLOW
- TEMPORARY DITCH CHECKS
- CULVERT PIPE DITCH CHECK

NOTES:
1) AREAS BETWEEN THE SUBGRADE SHOULDER POINT AND SLOPE INTERCEPTS REQUIRE TOPSOIL (OR SALVAGED TOPSOIL), FERTILIZER, SEED, AND EROSION MAT OR MULCH. ADDITIONAL, AREAS RESTORED AFTER SEPTEMBER 15 REQUIRE SOIL STABILIZER.

2) WHEN INLET PROTECTION TYPE A AND TYPE B, C, OR D ARE INDICATED AT THE SAME LOCATION, USE TYPE A PRIOR TO THE PLACEMENT OF CURB AND GUTTER AND USE TYPE B, C, OR D AFTER THE INLET CASTINGS ARE IN PLACE, ALL INLET PROTECTION ASSUMED TO USE TYPE A AND TYPE B UNLESS OTHERWISE NOTED.

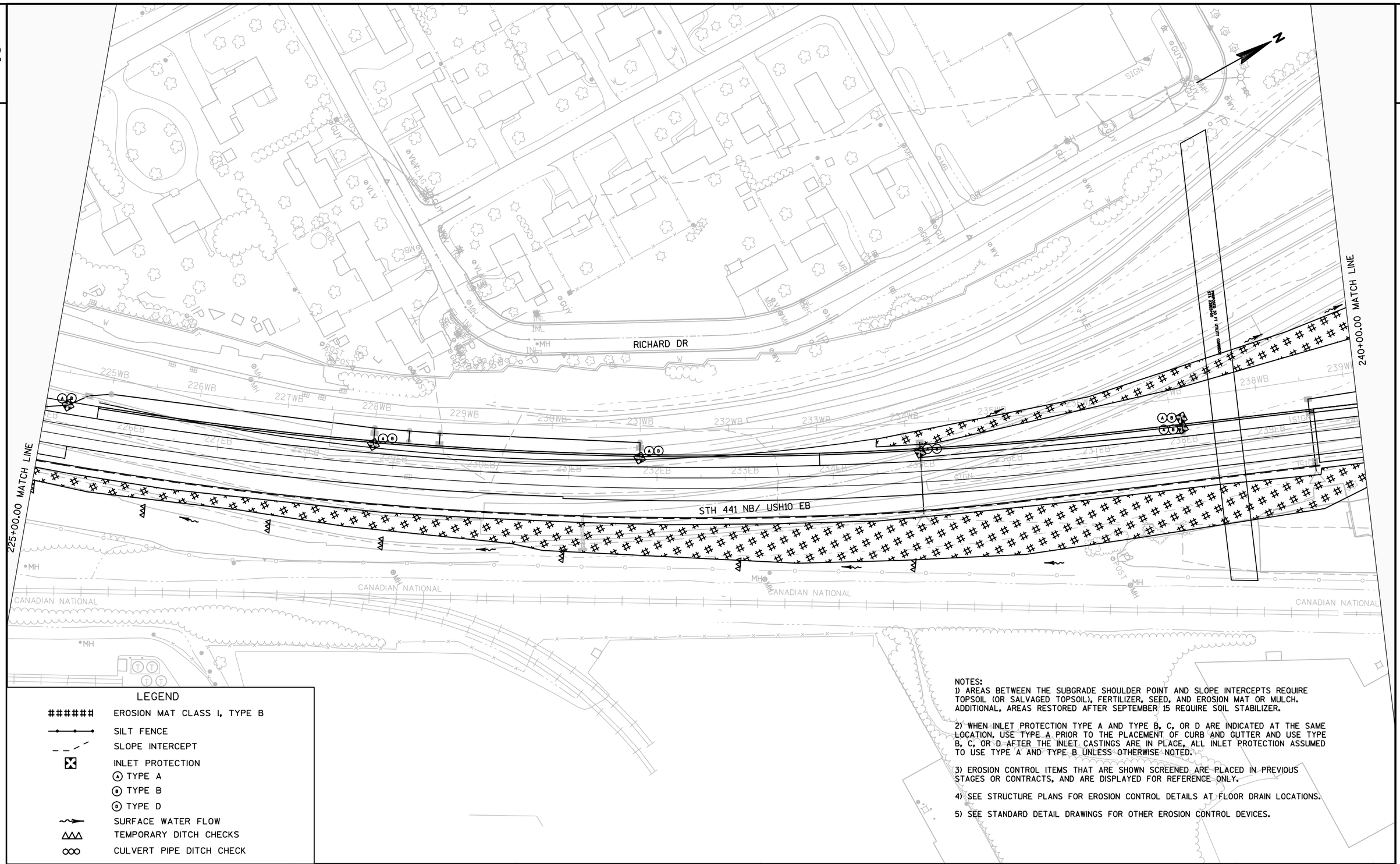
3) EROSION CONTROL ITEMS THAT ARE SHOWN SCREENED ARE PLACED IN PREVIOUS STAGES OR CONTRACTS, AND ARE DISPLAYED FOR REFERENCE ONLY.

4) SEE STRUCTURE PLANS FOR EROSION CONTROL DETAILS AT FLOOR DRAIN LOCATIONS.

5) SEE STANDARD DETAIL DRAWINGS FOR OTHER EROSION CONTROL DEVICES.

PROJECT NO: 1517-75-72	HWY: STH 441/USH 10	COUNTY: WINNEBAGO	EROSION CONTROLS-STAGE 1A	SHEET 107	E

2



LEGEND

- ###### EROSION MAT CLASS I, TYPE B
- SILT FENCE
- SLOPE INTERCEPT
- INLET PROTECTION
  - (A) TYPE A
  - (B) TYPE B
  - (D) TYPE D
- SURFACE WATER FLOW
- TEMPORARY DITCH CHECKS
- CULVERT PIPE DITCH CHECK

NOTES:
1) AREAS BETWEEN THE SUBGRADE SHOULDER POINT AND SLOPE INTERCEPTS REQUIRE TOPSOIL (OR SALVAGED TOPSOIL), FERTILIZER, SEED, AND EROSION MAT OR MULCH. ADDITIONAL, AREAS RESTORED AFTER SEPTEMBER 15 REQUIRE SOIL STABILIZER.

2) WHEN INLET PROTECTION TYPE A AND TYPE B, C, OR D ARE INDICATED AT THE SAME LOCATION, USE TYPE A PRIOR TO THE PLACEMENT OF CURB AND GUTTER AND USE TYPE B, C, OR D AFTER THE INLET CASTINGS ARE IN PLACE, ALL INLET PROTECTION ASSUMED TO USE TYPE A AND TYPE B UNLESS OTHERWISE NOTED.

3) EROSION CONTROL ITEMS THAT ARE SHOWN SCREENED ARE PLACED IN PREVIOUS STAGES OR CONTRACTS, AND ARE DISPLAYED FOR REFERENCE ONLY.

4) SEE STRUCTURE PLANS FOR EROSION CONTROL DETAILS AT FLOOR DRAIN LOCATIONS.

5) SEE STANDARD DETAIL DRAWINGS FOR OTHER EROSION CONTROL DEVICES.

PROJECT NO: 1517-75-72	HWY: STH 441/USH 10	COUNTY: WINNEBAGO	EROSION CONTROLS-STAGE 1A	SHEET 108	E

FILE NAME : S:\PDS\C3D\WIS441\15177570_72_77_85\SHEETSPLAN\1517-75-72\022000-EC\NE-15177572-022001-EC1A.DWG
LAYOUT NAME - 022002-EC1A
PLOT DATE : 4/10/2017 8:12 AM PLOT BY : MARTENS, JOHN M PLOT NAME : PLOT SCALE : 1 IN:100 FT
WISDOT/CADDS SHEET 42

LEGEND

- ###### EROSION MAT CLASS I, TYPE B
- SILT FENCE
- SLOPE INTERCEPT
- INLET PROTECTION
  - (A) TYPE A
  - (B) TYPE B
  - (D) TYPE D
- SURFACE WATER FLOW
- TEMPORARY DITCH CHECKS
- CULVERT PIPE DITCH CHECK

NOTES:
1) AREAS BETWEEN THE SUBGRADE SHOULDER POINT AND SLOPE INTERCEPTS REQUIRE TOPSOIL (OR SALVAGED TOPSOIL), FERTILIZER, SEED, AND EROSION MAT OR MULCH. ADDITIONAL, AREAS RESTORED AFTER SEPTEMBER 15 REQUIRE SOIL STABILIZER.

2) WHEN INLET PROTECTION TYPE A AND TYPE B, C, OR D ARE INDICATED AT THE SAME LOCATION, USE TYPE A PRIOR TO THE PLACEMENT OF CURB AND GUTTER AND USE TYPE B, C, OR D AFTER THE INLET CASTINGS ARE IN PLACE, ALL INLET PROTECTION ASSUMED TO USE TYPE A AND TYPE B UNLESS OTHERWISE NOTED.

3) EROSION CONTROL ITEMS THAT ARE SHOWN SCREENED ARE PLACED IN PREVIOUS STAGES OR CONTRACTS, AND ARE DISPLAYED FOR REFERENCE ONLY.

4) SEE STRUCTURE PLANS FOR EROSION CONTROL DETAILS AT FLOOR DRAIN LOCATIONS.

5) SEE STANDARD DETAIL DRAWINGS FOR OTHER EROSION CONTROL DEVICES.

RIP RAP MEDIUM

RIP RAP MEDIUM

RIP RAP MEDIUM

RIP RAP MEDIUM

STH 441 NB/ USH10 EB

MIDWAY RD NE RAMP

MIDWAY RD

240+00.00 MATCH LINE

254+00.00 MATCH LINE

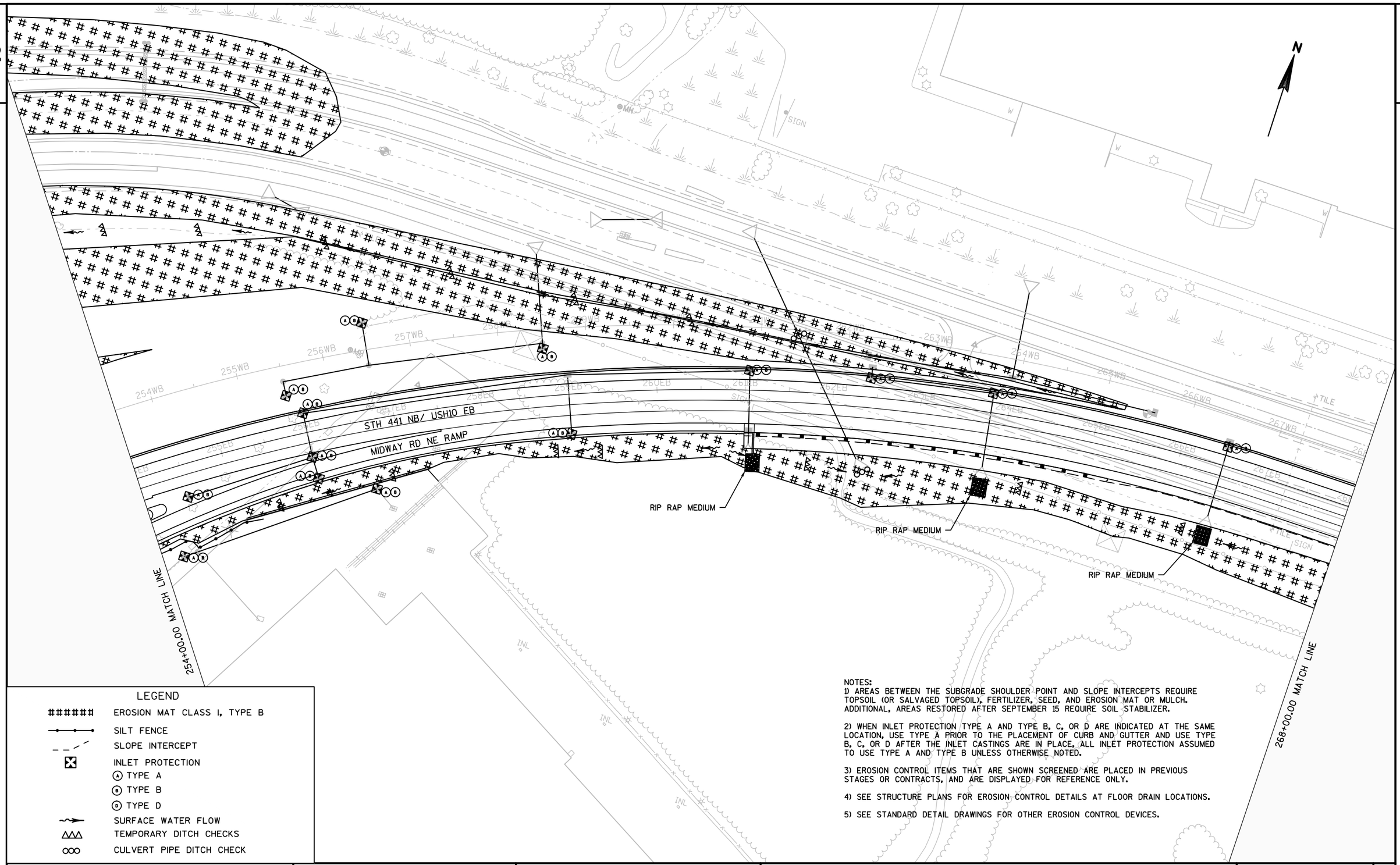
PROJECT NO: 1517-75-72	HWY: STH 441/USH 10	COUNTY: WINNEBAGO	EROSION CONTROLS-STAGE 1A	SHEET 109	E

FILE NAME : S:\PDS\C3D\WIS441\15177570_72_77_85\SHEETSPLAN\1517-75-72\022000-EC\NE-15177572-022001-EC1A.DWG
LAYOUT NAME - 022003-EC1A

PLOT DATE : 4/10/2017 8:12 AM PLOT BY : MARTENS, JOHN M PLOT NAME : PLOT SCALE : 1 IN:100 FT

WISDOT/CADDS SHEET 42

2



LEGEND

- ###### EROSION MAT CLASS I, TYPE B
- SILT FENCE
- SLOPE INTERCEPT
- INLET PROTECTION
  - (A) TYPE A
  - (B) TYPE B
  - (D) TYPE D
- SURFACE WATER FLOW
- TEMPORARY DITCH CHECKS
- CULVERT PIPE DITCH CHECK

NOTES:
1) AREAS BETWEEN THE SUBGRADE SHOULDER POINT AND SLOPE INTERCEPTS REQUIRE TOPSOIL (OR SALVAGED TOPSOIL), FERTILIZER, SEED, AND EROSION MAT OR MULCH. ADDITIONAL, AREAS RESTORED AFTER SEPTEMBER 15 REQUIRE SOIL STABILIZER.

2) WHEN INLET PROTECTION TYPE A AND TYPE B, C, OR D ARE INDICATED AT THE SAME LOCATION, USE TYPE A PRIOR TO THE PLACEMENT OF CURB AND GUTTER AND USE TYPE B, C, OR D AFTER THE INLET CASTINGS ARE IN PLACE, ALL INLET PROTECTION ASSUMED TO USE TYPE A AND TYPE B UNLESS OTHERWISE NOTED.

3) EROSION CONTROL ITEMS THAT ARE SHOWN SCREENED ARE PLACED IN PREVIOUS STAGES OR CONTRACTS, AND ARE DISPLAYED FOR REFERENCE ONLY.

4) SEE STRUCTURE PLANS FOR EROSION CONTROL DETAILS AT FLOOR DRAIN LOCATIONS.

5) SEE STANDARD DETAIL DRAWINGS FOR OTHER EROSION CONTROL DEVICES.

PROJECT NO: 1517-75-72	HWY: STH 441/USH 10	COUNTY: WINNEBAGO	EROSION CONTROLS-STAGE 1A	SHEET 110	E

2

268+00.00 MATCH LINE

N

APPLETON RD NW RAMP

APPLETON RD SW RAMP

STH 441 NB/ USH10 EB

RIP RAP MEDIUM

SIGN

TILE

INL

MH

W

269WB 270WB 271WB 272WB 273WB 274WB 275WB 276WB 277WB 278WB 279WB 280WB 281WB 282WB 283WB

269EB 270EB 271EB 272EB 273EB 274EB 275EB 276EB 277EB 278EB 279EB 280EB 281EB 282EB 283EB

LEGEND

- ###### EROSION MAT CLASS I, TYPE B
- SILT FENCE
- SLOPE INTERCEPT
- INLET PROTECTION
  - (A) TYPE A
  - (B) TYPE B
  - (D) TYPE D
- SURFACE WATER FLOW
- TEMPORARY DITCH CHECKS
- CULVERT PIPE DITCH CHECK

NOTES:

1) AREAS BETWEEN THE SUBGRADE SHOULDER POINT AND SLOPE INTERCEPTS REQUIRE TOPSOIL (OR SALVAGED TOPSOIL), FERTILIZER, SEED, AND EROSION MAT OR MULCH. ADDITIONAL, AREAS RESTORED AFTER SEPTEMBER 15 REQUIRE SOIL STABILIZER.

2) WHEN INLET PROTECTION TYPE A AND TYPE B, C, OR D ARE INDICATED AT THE SAME LOCATION, USE TYPE A PRIOR TO THE PLACEMENT OF CURB AND GUTTER AND USE TYPE B, C, OR D AFTER THE INLET CASTINGS ARE IN PLACE. ALL INLET PROTECTION ASSUMED TO USE TYPE A AND TYPE B UNLESS OTHERWISE NOTED.

3) EROSION CONTROL ITEMS THAT ARE SHOWN SCREENED ARE PLACED IN PREVIOUS STAGES OR CONTRACTS, AND ARE DISPLAYED FOR REFERENCE ONLY.

4) SEE STRUCTURE PLANS FOR EROSION CONTROL DETAILS AT FLOOR DRAIN LOCATIONS.

5) SEE STANDARD DETAIL DRAWINGS FOR OTHER EROSION CONTROL DEVICES.

PROJECT NO: 1517-75-72	HWY: STH 441/USH 10	COUNTY: WINNEBAGO	EROSION CONTROLS-STAGE 1A	SHEET 111	E

2

2

283+00.00 MATCH LINE

N

APPLETON RD NW RAMP

APPLETON RD SW RAMP

STH 441 NB/ USH10 EB

268WB 269WB 270WB 271WB 272WB 273WB 274WB 275WB 276WB 277WB 278WB 279WB 280WB 281WB 282WB

268EB 269EB 270EB 271EB 272EB 273EB 274EB 275EB 276EB 277EB 278EB 279EB 280EB 281EB 282EB

TILE

INL

MH

SIGN

TOWER

TVE

W

LEGEND

- ###### EROSION MAT CLASS I, TYPE B
- SILT FENCE
- SLOPE INTERCEPT
- INLET PROTECTION
  - (A) TYPE A
  - (B) TYPE B
  - (D) TYPE D
- SURFACE WATER FLOW
- TEMPORARY DITCH CHECKS
- CULVERT PIPE DITCH CHECK

NOTES:

1) AREAS BETWEEN THE SUBGRADE SHOULDER POINT AND SLOPE INTERCEPTS REQUIRE TOPSOIL (OR SALVAGED TOPSOIL), FERTILIZER, SEED, AND EROSION MAT OR MULCH. ADDITIONAL, AREAS RESTORED AFTER SEPTEMBER 15 REQUIRE SOIL STABILIZER.

2) WHEN INLET PROTECTION TYPE A AND TYPE B, C, OR D ARE INDICATED AT THE SAME LOCATION, USE TYPE A PRIOR TO THE PLACEMENT OF CURB AND GUTTER AND USE TYPE B, C, OR D AFTER THE INLET CASTINGS ARE IN PLACE, ALL INLET PROTECTION ASSUMED TO USE TYPE A AND TYPE B UNLESS OTHERWISE NOTED.

3) EROSION CONTROL ITEMS THAT ARE SHOWN SCREENED ARE PLACED IN PREVIOUS STAGES OR CONTRACTS, AND ARE DISPLAYED FOR REFERENCE ONLY.

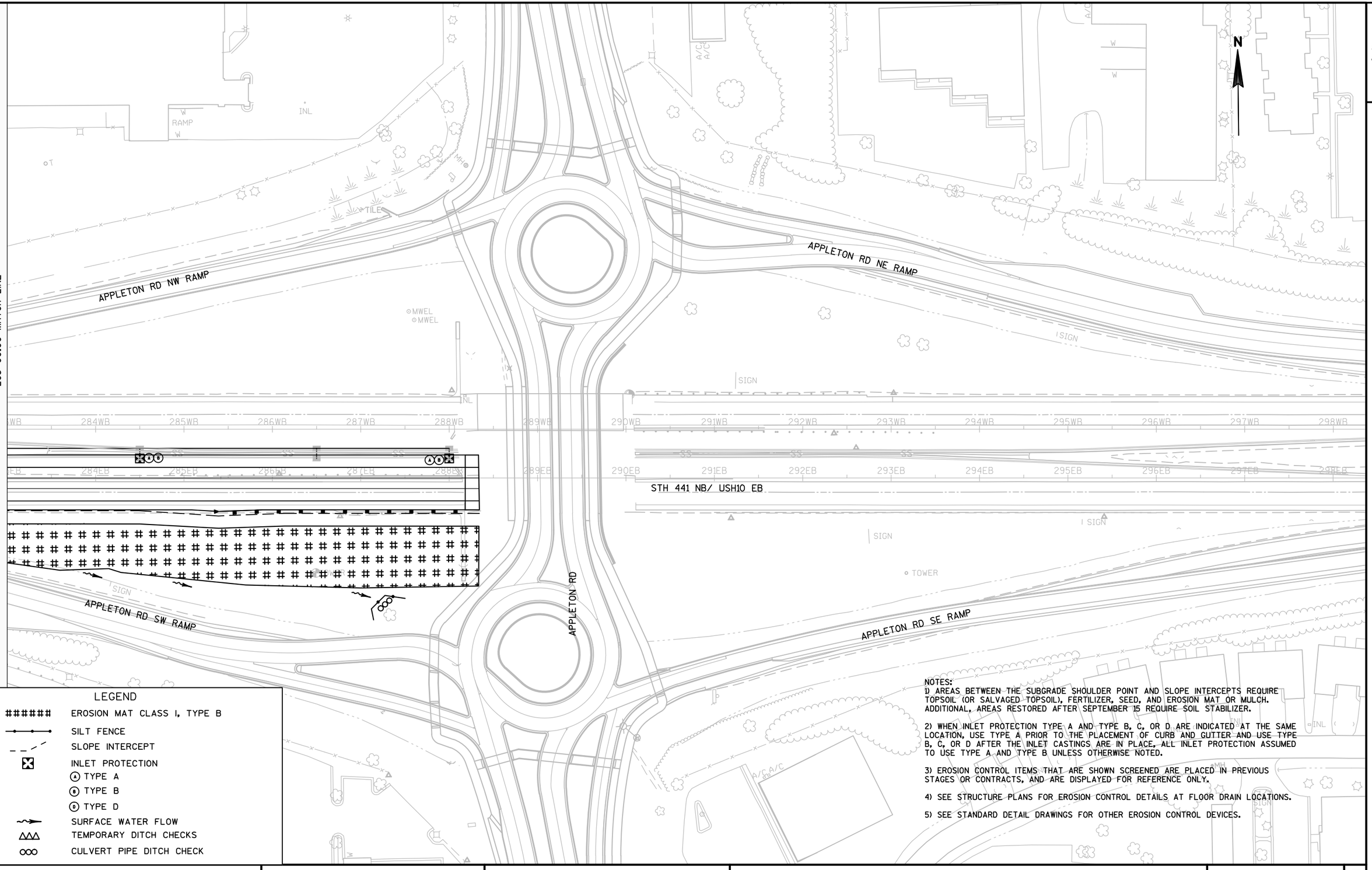
4) SEE STRUCTURE PLANS FOR EROSION CONTROL DETAILS AT FLOOR DRAIN LOCATIONS.

5) SEE STANDARD DETAIL DRAWINGS FOR OTHER EROSION CONTROL DEVICES.

PROJECT NO: 1517-75-72	HWY: STH 441/USH 10	COUNTY: WINNEBAGO	EROSION CONTROLS-STAGE 1B	SHEET 112	E

2

283+00.00 MATCH LINE



LEGEND

- ###### EROSION MAT CLASS I, TYPE B
- SILT FENCE
- SLOPE INTERCEPT
- INLET PROTECTION
  - (A) TYPE A
  - (B) TYPE B
  - (D) TYPE D
- SURFACE WATER FLOW
- TEMPORARY DITCH CHECKS
- CULVERT PIPE DITCH CHECK

NOTES:
1) AREAS BETWEEN THE SUBGRADE SHOULDER POINT AND SLOPE INTERCEPTS REQUIRE TOPSOIL (OR SALVAGED TOPSOIL), FERTILIZER, SEED, AND EROSION MAT OR MULCH. ADDITIONAL, AREAS RESTORED AFTER SEPTEMBER 15 REQUIRE SOIL STABILIZER.

2) WHEN INLET PROTECTION TYPE A AND TYPE B, C, OR D ARE INDICATED AT THE SAME LOCATION, USE TYPE A PRIOR TO THE PLACEMENT OF CURB AND GUTTER AND USE TYPE B, C, OR D AFTER THE INLET CASTINGS ARE IN PLACE. ALL INLET PROTECTION ASSUMED TO USE TYPE A AND TYPE B UNLESS OTHERWISE NOTED.

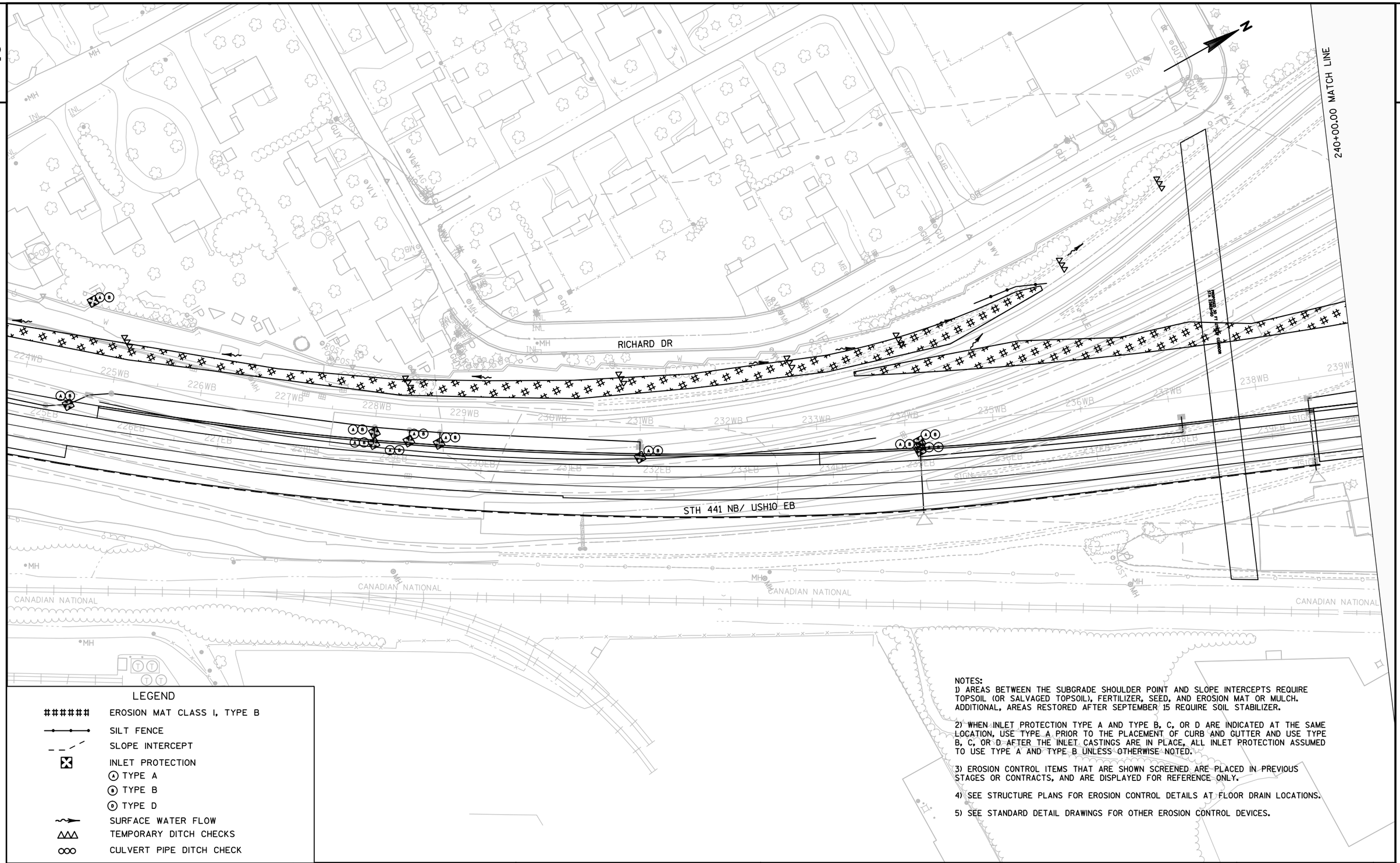
3) EROSION CONTROL ITEMS THAT ARE SHOWN SCREENED ARE PLACED IN PREVIOUS STAGES OR CONTRACTS, AND ARE DISPLAYED FOR REFERENCE ONLY.

4) SEE STRUCTURE PLANS FOR EROSION CONTROL DETAILS AT FLOOR DRAIN LOCATIONS.

5) SEE STANDARD DETAIL DRAWINGS FOR OTHER EROSION CONTROL DEVICES.

PROJECT NO: 1517-75-72	HWY: STH 441/USH 10	COUNTY: WINNEBAGO	EROSION CONTROLS-STAGE 1B	SHEET 113	E

2



LEGEND

- ###### EROSION MAT CLASS I, TYPE B
- SILT FENCE
- SLOPE INTERCEPT
- INLET PROTECTION
  - (A) TYPE A
  - (B) TYPE B
  - (D) TYPE D
- SURFACE WATER FLOW
- TEMPORARY DITCH CHECKS
- CULVERT PIPE DITCH CHECK

NOTES:
1) AREAS BETWEEN THE SUBGRADE SHOULDER POINT AND SLOPE INTERCEPTS REQUIRE TOPSOIL (OR SALVAGED TOPSOIL), FERTILIZER, SEED, AND EROSION MAT OR MULCH. ADDITIONAL, AREAS RESTORED AFTER SEPTEMBER 15 REQUIRE SOIL STABILIZER.

2) WHEN INLET PROTECTION TYPE A AND TYPE B, C, OR D ARE INDICATED AT THE SAME LOCATION, USE TYPE A PRIOR TO THE PLACEMENT OF CURB AND GUTTER AND USE TYPE B, C, OR D AFTER THE INLET CASTINGS ARE IN PLACE, ALL INLET PROTECTION ASSUMED TO USE TYPE A AND TYPE B UNLESS OTHERWISE NOTED.

3) EROSION CONTROL ITEMS THAT ARE SHOWN SCREENED ARE PLACED IN PREVIOUS STAGES OR CONTRACTS, AND ARE DISPLAYED FOR REFERENCE ONLY.

4) SEE STRUCTURE PLANS FOR EROSION CONTROL DETAILS AT FLOOR DRAIN LOCATIONS.

5) SEE STANDARD DETAIL DRAWINGS FOR OTHER EROSION CONTROL DEVICES.

PROJECT NO: 1517-75-72	HWY: STH 441/USH 10	COUNTY: WINNEBAGO	EROSION CONTROLS-STAGE 2A	SHEET 114	E

FILE NAME : S:\PDS\C3D\WIS441\15177570_72_77_85\SHEETSPLAN\1517-75-72\022000-EC\NE-15177572-022021-EC2A.DWG
LAYOUT NAME - 022021-EC2A
PLOT DATE : 4/10/2017 8:14 AM PLOT BY : MARTENS, JOHN M PLOT NAME : PLOT SCALE : 1 IN:100 FT
WISDOT/CADDS SHEET 42

LEGEND

- ###### EROSION MAT CLASS I, TYPE B
- SILT FENCE
- SLOPE INTERCEPT
- INLET PROTECTION
  - (A) TYPE A
  - (B) TYPE B
  - (D) TYPE D
- SURFACE WATER FLOW
- TEMPORARY DITCH CHECKS
- CULVERT PIPE DITCH CHECK

NOTES:
1) AREAS BETWEEN THE SUBGRADE SHOULDER POINT AND SLOPE INTERCEPTS REQUIRE TOPSOIL (OR SALVAGED TOPSOIL), FERTILIZER, SEED, AND EROSION MAT OR MULCH. ADDITIONAL, AREAS RESTORED AFTER SEPTEMBER 15 REQUIRE SOIL STABILIZER.

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3) EROSION CONTROL ITEMS THAT ARE SHOWN SCREENED ARE PLACED IN PREVIOUS STAGES OR CONTRACTS, AND ARE DISPLAYED FOR REFERENCE ONLY.

4) SEE STRUCTURE PLANS FOR EROSION CONTROL DETAILS AT FLOOR DRAIN LOCATIONS.

5) SEE STANDARD DETAIL DRAWINGS FOR OTHER EROSION CONTROL DEVICES.

STH 441 NB/ USH10 EB

MIDWAY RD NE RAMP

MIDWAY RD

240+00.00 MATCH LINE

254+00.00 MATCH LINE

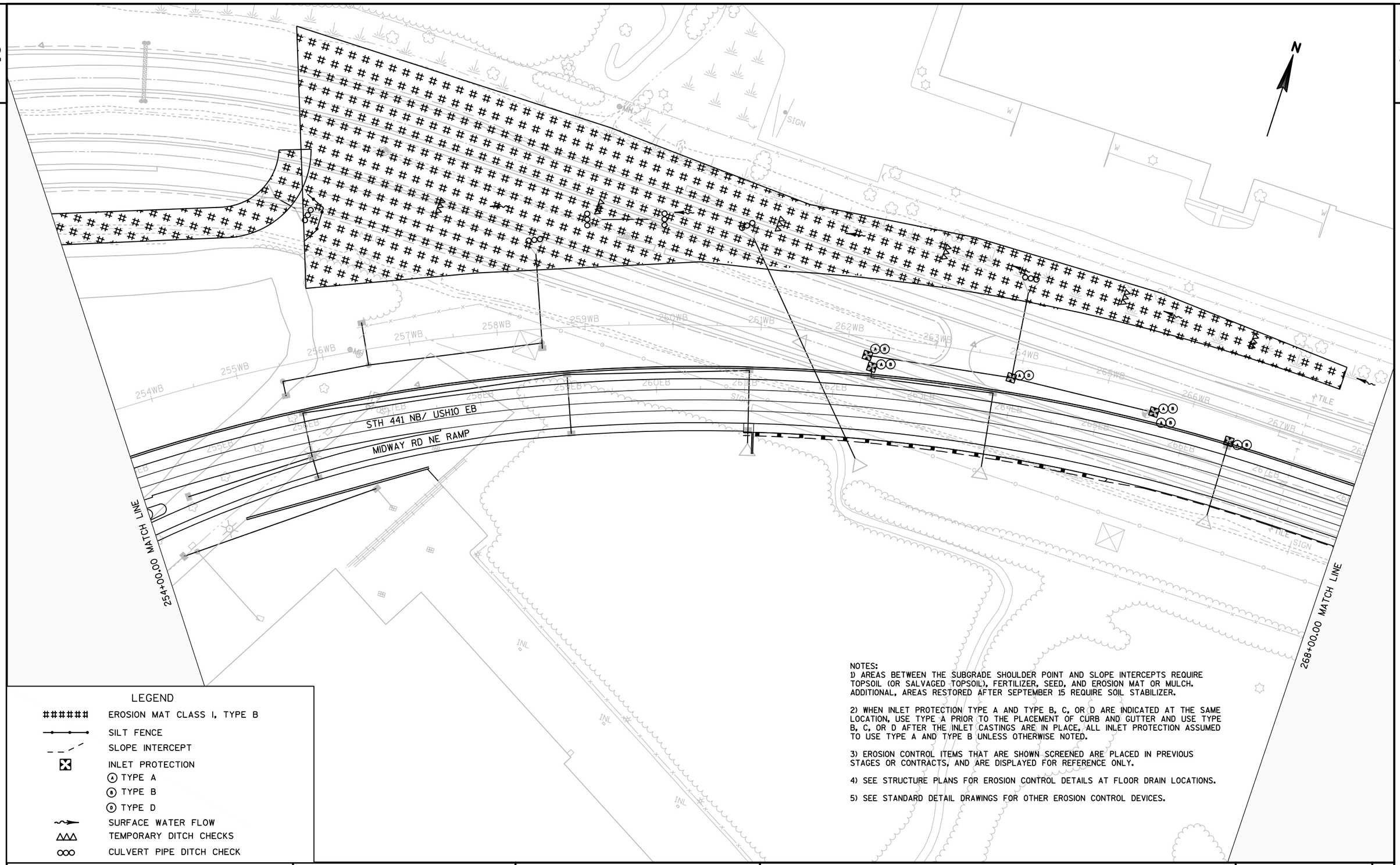
PROJECT NO: 1517-75-72	HWY: STH 441/USH 10	COUNTY: WINNEBAGO	EROSION CONTROLS-STGAE 2A	SHEET 115	E

FILE NAME : S:\PDS\C3D\WIS441\15177570_72_77_85\SHEETSPLAN\1517-75-72\022000-EC\NE-15177572-022021-EC2A.DWG
LAYOUT NAME - 022022-EC2A

PLOT DATE : 4/10/2017 8:14 AM PLOT BY : MARTENS, JOHN M PLOT NAME : PLOT SCALE : 1 IN:100 FT

WISDOT/CADDS SHEET 42

2



LEGEND

######	EROSION MAT CLASS I, TYPE B
	SILT FENCE
	SLOPE INTERCEPT
	INLET PROTECTION
A	TYPE A
B	TYPE B
D	TYPE D
	SURFACE WATER FLOW
	TEMPORARY DITCH CHECKS
	CULVERT PIPE DITCH CHECK

NOTES:
1) AREAS BETWEEN THE SUBGRADE SHOULDER POINT AND SLOPE INTERCEPTS REQUIRE TOPSOIL (OR SALVAGED TOPSOIL), FERTILIZER, SEED, AND EROSION MAT OR MULCH. ADDITIONAL, AREAS RESTORED AFTER SEPTEMBER 15 REQUIRE SOIL STABILIZER.

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3) EROSION CONTROL ITEMS THAT ARE SHOWN SCREENED ARE PLACED IN PREVIOUS STAGES OR CONTRACTS, AND ARE DISPLAYED FOR REFERENCE ONLY.

4) SEE STRUCTURE PLANS FOR EROSION CONTROL DETAILS AT FLOOR DRAIN LOCATIONS.

5) SEE STANDARD DETAIL DRAWINGS FOR OTHER EROSION CONTROL DEVICES.

PROJECT NO: 1517-75-72	HWY: STH 441/USH 10	COUNTY: WINNEBAGO	EROSION CONTROLS-STAGE 2A	SHEET	E

FILE NAME : S:\PDS\C3D\WIS441\15177570_72_77_85\SHEETSPLAN\1517-75-72\022000-EC\NE-15177572-022021-EC2A.DWG
LAYOUT NAME - 022023-EC2A
PLOT DATE : 4/10/2017 8:14 AM PLOT BY : MARTENS, JOHN M PLOT NAME : PLOT SCALE : 1 IN:100 FT
WISDOT/CADDS SHEET 42

2

268+00.00 MATCH LINE

283+00.00 MATCH LINE

2

N

INL
MH
INL
MH
INL
W
W
SIGN
SIGN
SIGN
TILE
TILE
TILE

2

2

283+00.00 MATCH LINE

LEGEND

- ####### EROSION MAT CLASS I, TYPE B
- SILT FENCE
- SLOPE INTERCEPT
- INLET PROTECTION
  - (A) TYPE A
  - (B) TYPE B
  - (D) TYPE D
- SURFACE WATER FLOW
- TEMPORARY DITCH CHECKS
- CULVERT PIPE DITCH CHECK

NOTES:
1) AREAS BETWEEN THE SUBGRADE SHOULDER POINT AND SLOPE INTERCEPTS REQUIRE TOPSOIL (OR SALVAGED TOPSOIL), FERTILIZER, SEED, AND EROSION MAT OR MULCH. ADDITIONAL, AREAS RESTORED AFTER SEPTEMBER 15 REQUIRE SOIL STABILIZER.

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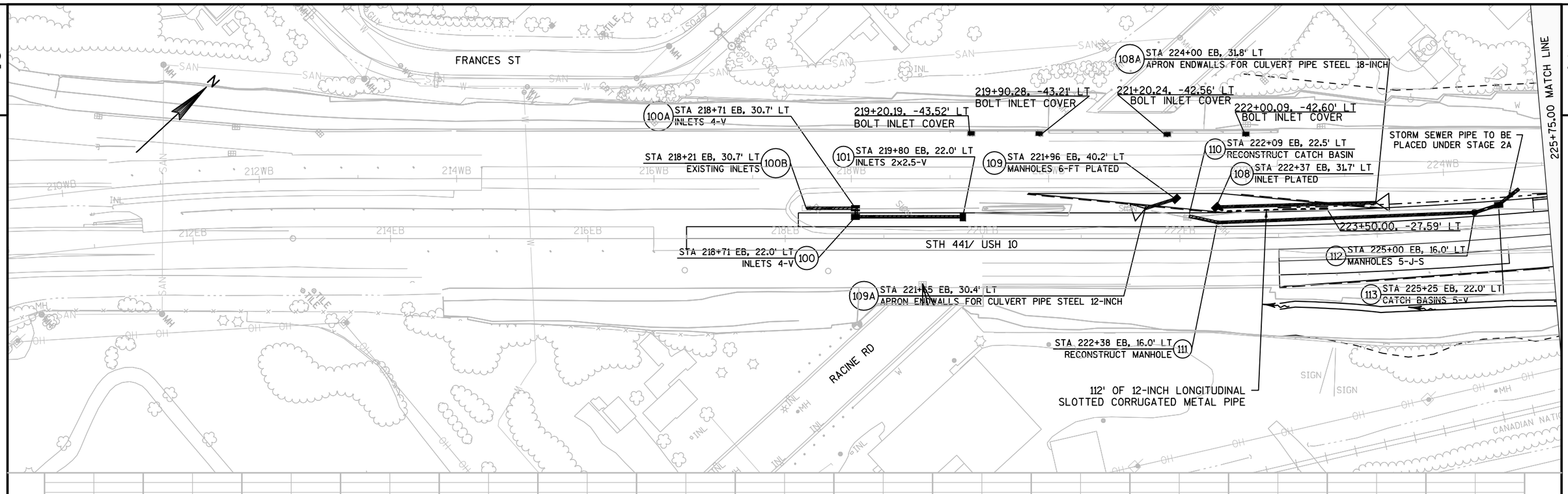
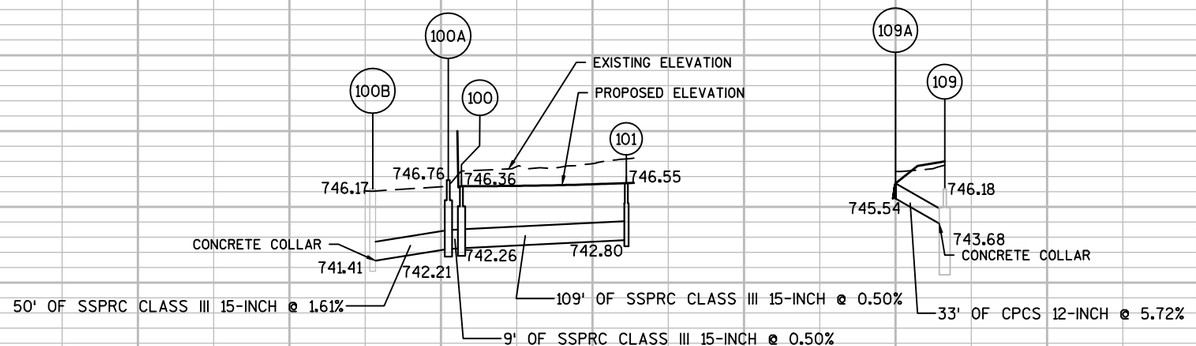
3) EROSION CONTROL ITEMS THAT ARE SHOWN SCREENED ARE PLACED IN PREVIOUS STAGES OR CONTRACTS, AND ARE DISPLAYED FOR REFERENCE ONLY.

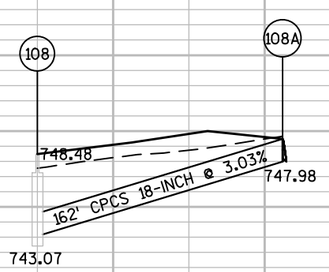
4) SEE STRUCTURE PLANS FOR EROSION CONTROL DETAILS AT FLOOR DRAIN LOCATIONS.

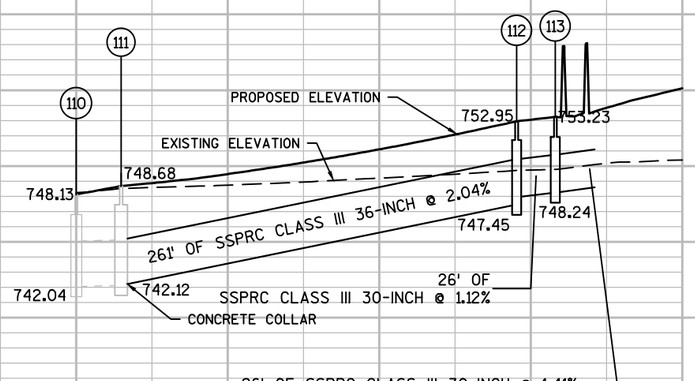
5) SEE STANDARD DETAIL DRAWINGS FOR OTHER EROSION CONTROL DEVICES.

PROJECT NO: 1517-75-72	HWY: STH 441/USH 10	COUNTY: WINNEBAGO	EROSION CONTROLS-STAGE 2A	SHEET 118	E









PROJECT NO: 1517-75-72	HWY: STH 441/USH 10	COUNTY: WINNEBAGO	STORM SEWER-STAGE 1A	SHEET 119 E

2

225+75.00 MATCH LINE

241+00.00 MATCH LINE

N

225+64.19, -28.25' LT
BOLT INLET COVER

225+88.97, -25.61' LT
BOLT INLET COVER

227+22.16, -21.46' LT
BOLT INLET COVER

227+39.12, -21.63' LT
BOLT INLET COVER

RICHARD DR

STH 441/ USH 10

CANADIAN NATIONAL

CANADIAN NATIONAL

CANADIAN NATIONAL

STA 235+00 EB, 33.1' LT
INLETS 2x2.5-V (131C)

STA 235+00 EB, 27.5' LT
INLETS 2x2.5-V (131B)

STA 235+00 EB, 22.0' LT
INLETS 2x2.5-V (131A)

STA 235+00 EB, 16.0' LT
MANHOLES 5-J-S (131)

STA 235+00 EB, 47.5' RT
APRON ENDWALLS FOR CPRC 24-INCH (130)

STA 238+00 EB, 33.6' LT
INLETS 2x2.5-V (132B)

STA 238+00 EB, 22.0' LT
INLETS 2x2.5-V (132A)

STA 238+00 EB, 16.0' LT
MANHOLES 4-J-S (132)

PROPOSED 30' UTILITY CORRIDOR
STA 238+50

STA 239+45 EB, 37.8' LT
INLETS 4-V (143)

STA 239+45 EB, 22.0' LT
INLETS 4-V (142)

STA 239+45 EB, 34.0' RT
INLETS 4-V (141)

STA 239+45 EB, 47.0' RT
APRON ENDWALLS FOR CPRC 24-INCH (140)

STA 240+73 EB, 42.5' LT
INLETS 2x2.5-V (143A)

STA 240+50 EB, 22.0' LT
INLETS 4-V (142A)

STA 240+50 EB, 33.0' RT
INLETS 2x2.5-V (142B)

795
790
785
780
775
770
765
760
755
750

776.40 (131B) (131C) (131A) 776.54 (131) (130)
776.51 776.79
772.76
772.65
772.55
772.44
771.69
770.50

6' OF SSPRC CLASS III 15-INCH @ 1.87%
6' OF SSPRC CLASS III 15-INCH @ 1.87%
63' OF SSPRC CLASS III 24-INCH @ 1.87%
6' OF SSPRC CLASS III 15-INCH @ 1.87%
EXISTING ELEVATION

(131) 776.79
PROPOSED ELEVATION
299' OF SSPRC CLASS III 24-INCH @ 2.18%
(132) 782.84
778.20
771.69
EXISTING ELEVATION

(132A) 782.73
(132B) (132) 783.39 782.84
779.64 778.95
778.98
6' OF SSPRC CLASS III 15-INCH @ 0.50%
12' OF SSPRC CLASS III 15-INCH @ 5.75%

PROJECT NO: 1517-75-72	HWY: STH 441/USH 10	COUNTY: WINNEBAGO	STORM SEWER-STAGE 1A	SHEET 120	E

FILE NAME : S:\PDS\C3D\WIS441\15177570_72_77_85\SHEETSPLAN\1517-75-72\022500-SS\NE-15177572-022501-SS.DWG
LAYOUT NAME - 022502-SS
PLOT DATE : 2/9/2017 8:53 AM
PLOT BY : VICKMAN, GARRETT T PLOT NAME :
PLOT SCALE : 1 IN:100 FT
WISDOT/CADDS SHEET 41

2

225+75.00 MATCH LINE

241+00.00 MATCH LINE

N

225+64.19, -28.25' LT

225+88.97, -25.61' LT

227+22.16, -21.46' LT

227+39.12, -21.63' LT

RICHARD DR

STH 441/ USH 10

CANADIAN NATIONAL

PROPOSED 30-FT UTILITY CORRIDOR STA 238+50 EB

STA 235+00 EB, 33.1' LT
INLETS 2x2.5-V (131C)

STA 235+00 EB, 27.5' LT
INLETS 2x2.5-V (131B)

STA 235+00 EB, 22.0' LT
INLETS 2x2.5-V (131A)

STA 235+00 EB, 16.0' LT
MANHOLES 5-J-S (131)

STA 235+00 EB, 47.5' RT
APRON ENDWALLS FOR CPRC 24-INCH (130)

STA 238+00 EB, 33.6' LT
INLETS 2x2.5-V (132B)

STA 238+00 EB, 22.0' LT
INLETS 2x2.5-V (132A)

STA 238+00 EB, 16.0' LT
MANHOLES 4-J-S (132)

STA 239+45 EB, 37.8' LT
INLETS 4-V (143)

STA 239+45 EB, 22.0' LT
INLETS 4-V (142)

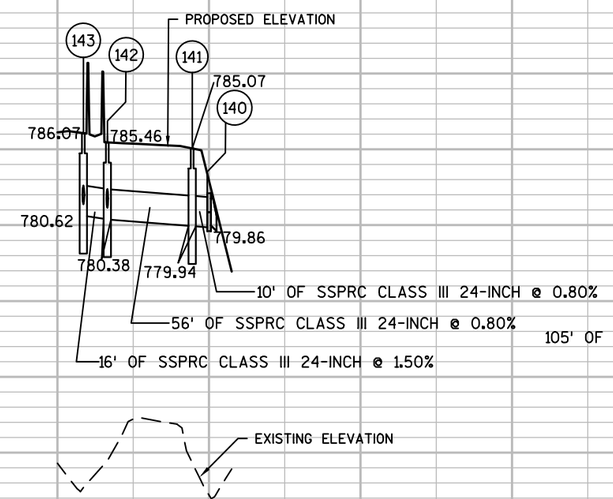
STA 239+45 EB, 34.0' RT
INLETS 4-V (141)

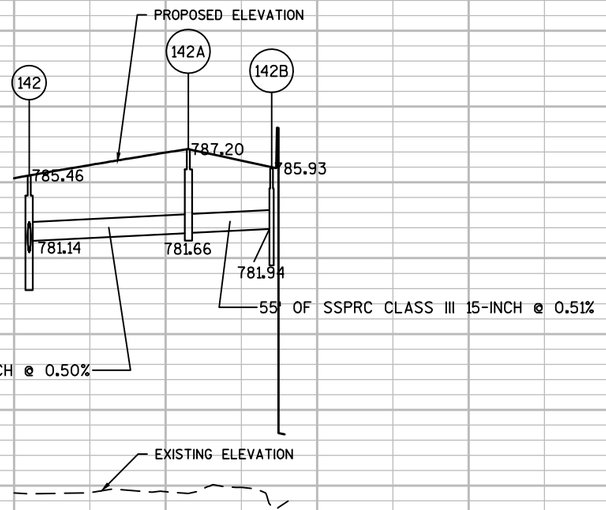
STA 239+45 EB, 46.9' RT
APRON ENDWALLS FOR CPRC 24-INCH (140)

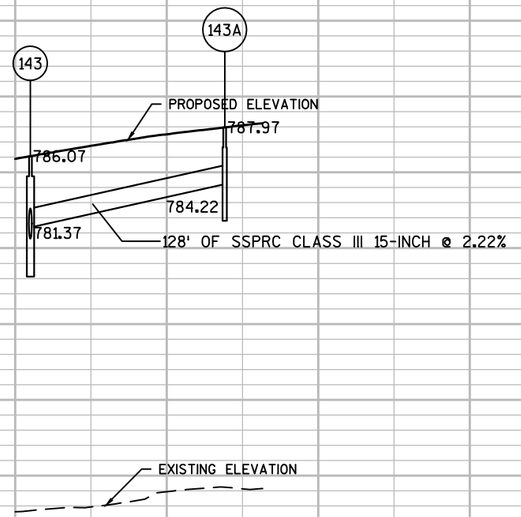
STA 240+73 EB, 42.5' LT
INLETS 2x2.5-V (143A)

STA 240+50 EB, 22.0' LT
INLETS 4-V (142A)

STA 240+50 EB, 33.0' RT
INLETS 2x2.5-V (142B)

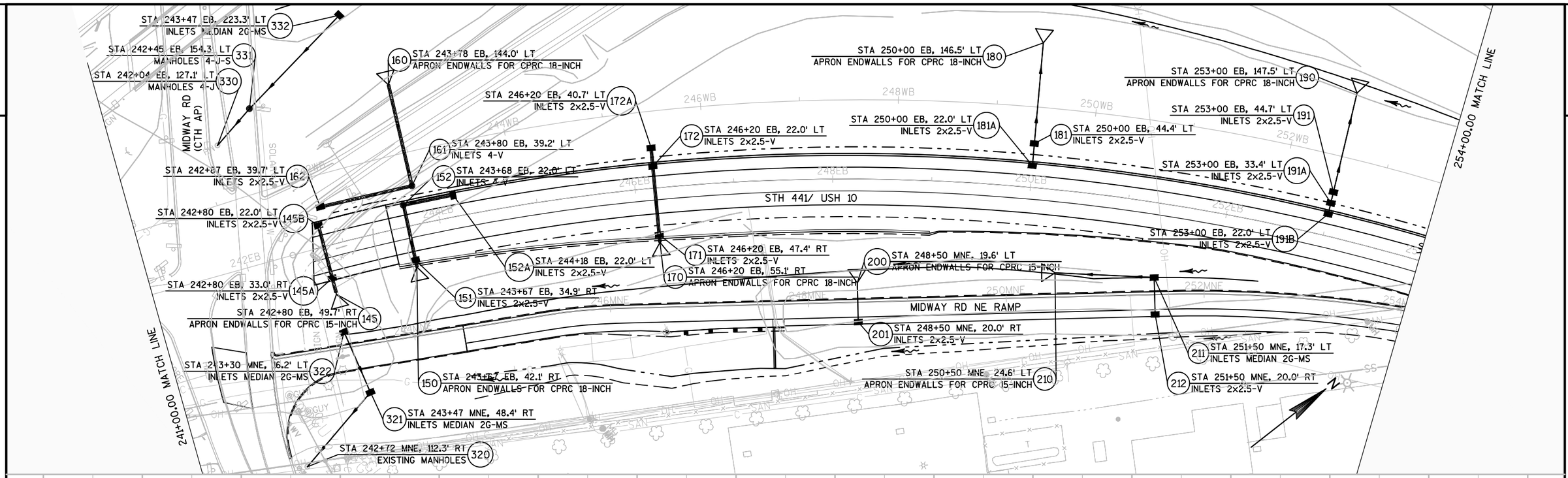


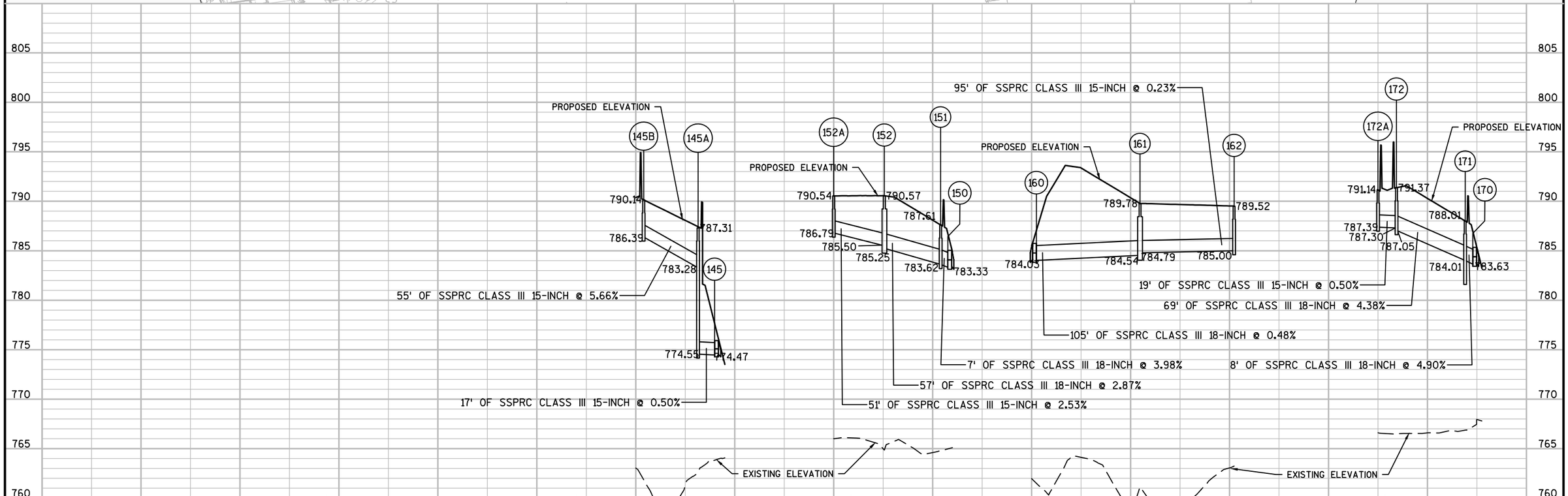




800 795 790 785 780 775 770 765 760 755

PROJECT NO: 1517-75-72	HWY: STH 441/USH 10	COUNTY: WINNEBAGO	STORM SEWER-STAGE 1A	SHEET 121 E





PROJECT NO: 1517-75-72	HWY: STH 441/USH 10	COUNTY: WINNEBAGO	STORM SEWER-STAGE 1A	SHEET 122 E

2

STA 243+47 EB, 223.3' LT
INLETS MEDIAN 2G-MS (332)

STA 242+45 EB, 154.3' LT
MANHOLES 4-J-S (331)

STA 242+04 EB, 127.1' LT
MANHOLES 4-J (330)

MIDWAY RD (CTH AP)

(160) STA 243+78 EB, 144.0' LT
APRON ENDWALLS FOR CPRC 18-INCH

STA 246+20 EB, 40.7' LT
INLETS 2x2.5-V (172A)

(161) STA 243+80 EB, 39.2' LT
INLETS 4-V

STA 242+87 EB, 39.7' LT
INLETS 2x2.5-V (162)

(152) STA 243+68 EB, 22.0' LT
INLETS 4-V

STA 242+80 EB, 22.0' LT
INLETS 2x2.5-V (145B)

STA 242+80 EB, 33.0' RT
INLETS 2x2.5-V (145A)

STA 242+80 EB, 49.7' RT
APRON ENDWALLS FOR CPRC 15-INCH (145)

(152A) STA 244+18 EB, 22.0' LT
INLETS 2x2.5-V

(151) STA 243+67 EB, 34.9' RT
INLETS 2x2.5-V

STA 243+30 MNE, 16.2' LT
INLETS MEDIAN 2G-MS (322)

(150) STA 243+87 EB, 42.1' RT
APRON ENDWALLS FOR CPRC 18-INCH

(321) STA 243+47 MNE, 48.4' RT
INLETS MEDIAN 2G-MS

STA 242+72 MNE, 112.3' RT
EXISTING MANHOLES (320)

241+00.00 MATCH LINE

STA 250+00 EB, 146.5' LT
APRON ENDWALLS FOR CPRC 18-INCH (180)

(172) STA 246+20 EB, 22.0' LT
INLETS 2x2.5-V

STA 250+00 EB, 22.0' LT
INLETS 2x2.5-V (181A)

(181) STA 250+00 EB, 44.4' LT
INLETS 2x2.5-V

STA 253+00 EB, 147.5' LT
APRON ENDWALLS FOR CPRC 18-INCH (190)

STA 253+00 EB, 44.7' LT
INLETS 2x2.5-V (191)

STA 253+00 EB, 33.4' LT
INLETS 2x2.5-V (191A)

STA 253+00 EB, 22.0' LT
INLETS 2x2.5-V (191B)

254+00.00 MATCH LINE

STH 441/ USH 10

(171) STA 246+20 EB, 47.4' RT
INLETS 2x2.5-V

(170) STA 246+20 EB, 55.1' RT
APRON ENDWALLS FOR CPRC 18-INCH

(200) STA 248+50 MNE, 19.6' LT
APRON ENDWALLS FOR CPRC 15-INCH

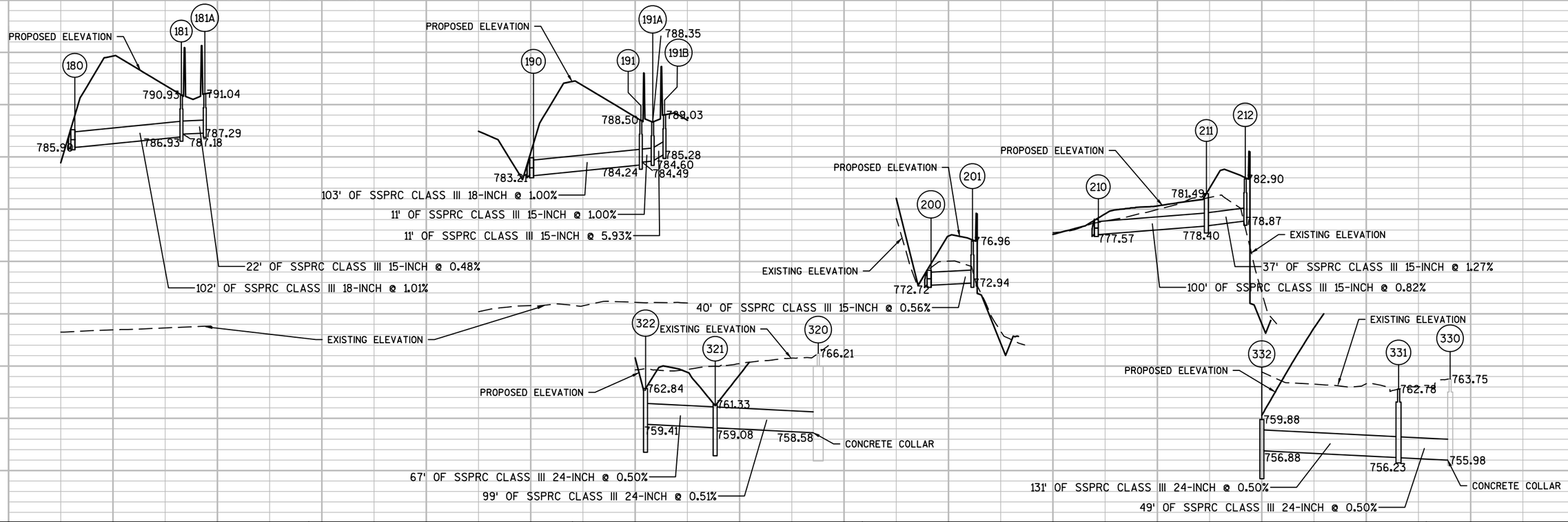
MIDWAY RD NE RAMP

(201) STA 248+50 MNE, 20.0' RT
INLETS 2x2.5-V

STA 250+50 MNE, 24.6' LT
APRON ENDWALLS FOR CPRC 15-INCH (210)

(211) STA 251+50 MNE, 17.3' LT
INLETS MEDIAN 2G-MS

(212) STA 251+50 MNE, 20.0' RT
INLETS 2x2.5-V

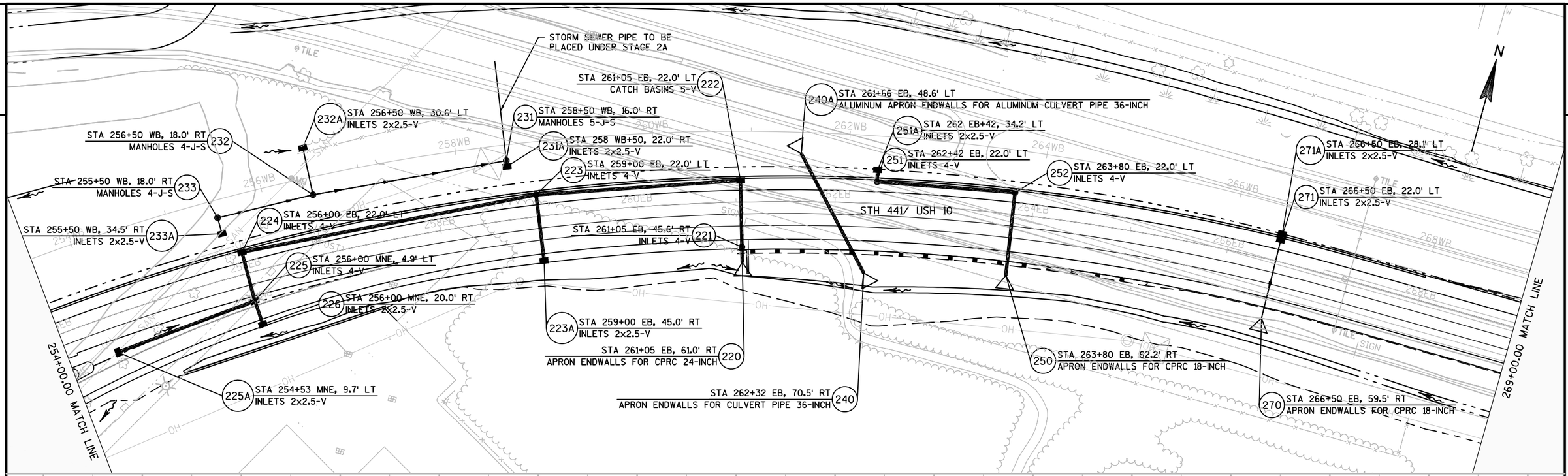


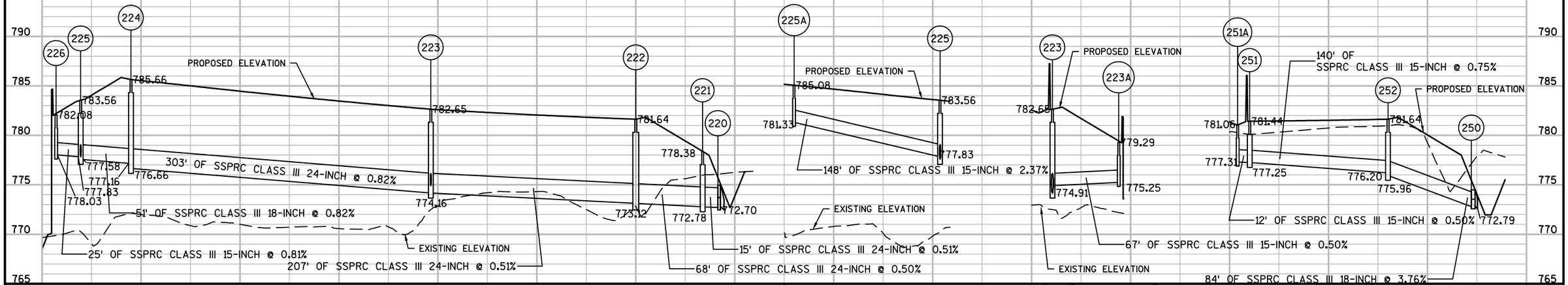
PROJECT NO: 1517-75-72	HWY: STH 441/USH 10	COUNTY: WINNEBAGO	STORM SEWER-STAGE 1A	SHEET 123	E

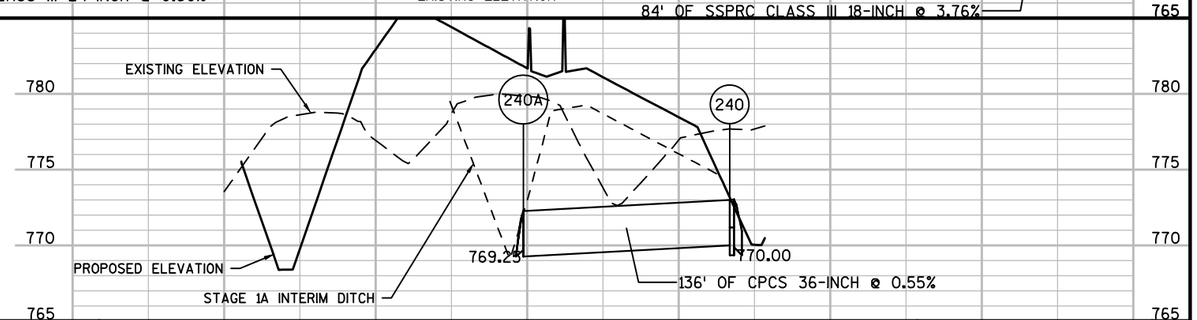
FILE NAME : S:\PDS\C3D\WIS441\151775 70_72_77_85\SHEETSPLAN\1517-75-72\022500-SS\NE-151775 72-022501-SS.DWG
LAYOUT NAME - 022505-SS

PLOT DATE : 2/9/2017 8:56 AM PLOT BY : VICKMAN, GARRETT T PLOT NAME : PLOT SCALE : 1 IN:100 FT

WISDOT/CADDS SHEET 41

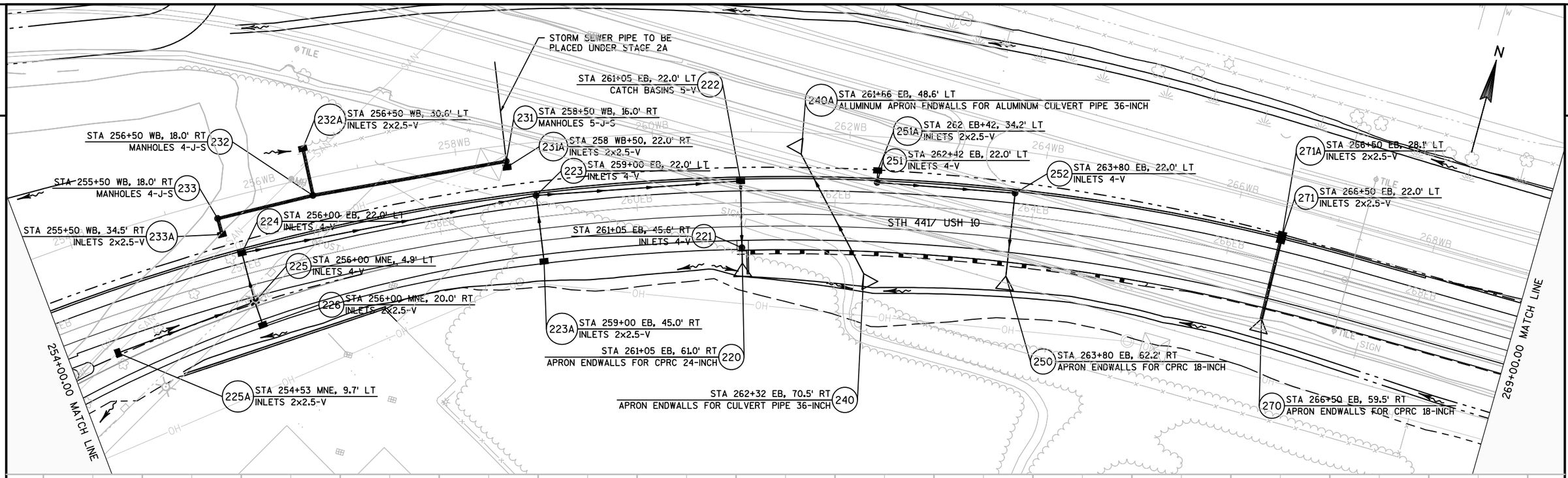


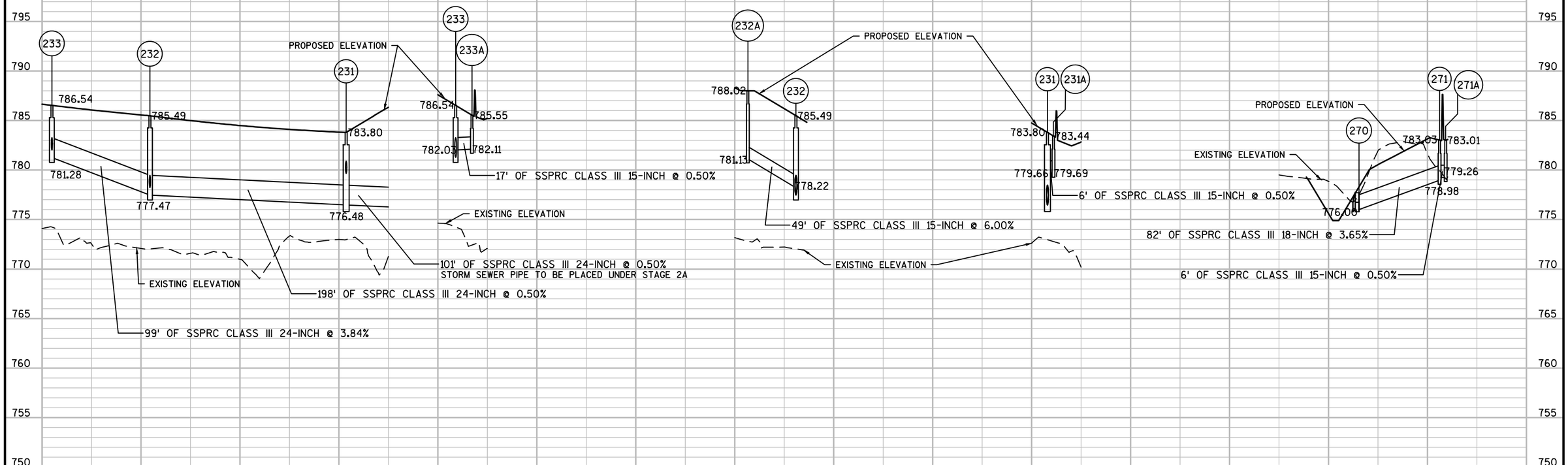




PROJECT NO: 1517-75-72	HWY: STH 441/USH 10	COUNTY: WINNEBAGO	STORM SEWER-STAGE 1A	SHEET 124 E

FILE NAME : S:\PDS\C3D\WIS441\15177570_72_77_85\SHEETSPLAN\1517-75-72\022500-SS\NE-15177572-022501-SS.DWG
LAYOUT NAME - 022506-SS
PLOT DATE : 2/9/2017 8:57 AM PLOT BY : VICKMAN, GARRETT T PLOT NAME : PLOT SCALE : 1 IN:100 FT
WISDOT/CADDS SHEET 41





PROJECT NO: 1517-75-72	HWY: STH 441/USH 10	COUNTY: WINNEBAGO	STORM SEWER-STAGE 1A	SHEET 125 E

2

269+00.00 MATCH LINE

N

APPLETON RD NW RAMP

APPLETON RD SW RAMP

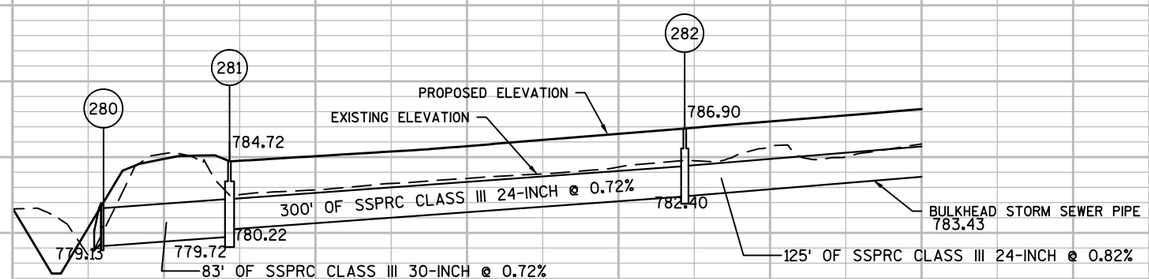
STH 441/ USH 10

STA 272+50 EB, 21.6' LT (282)
INLETS 4-V

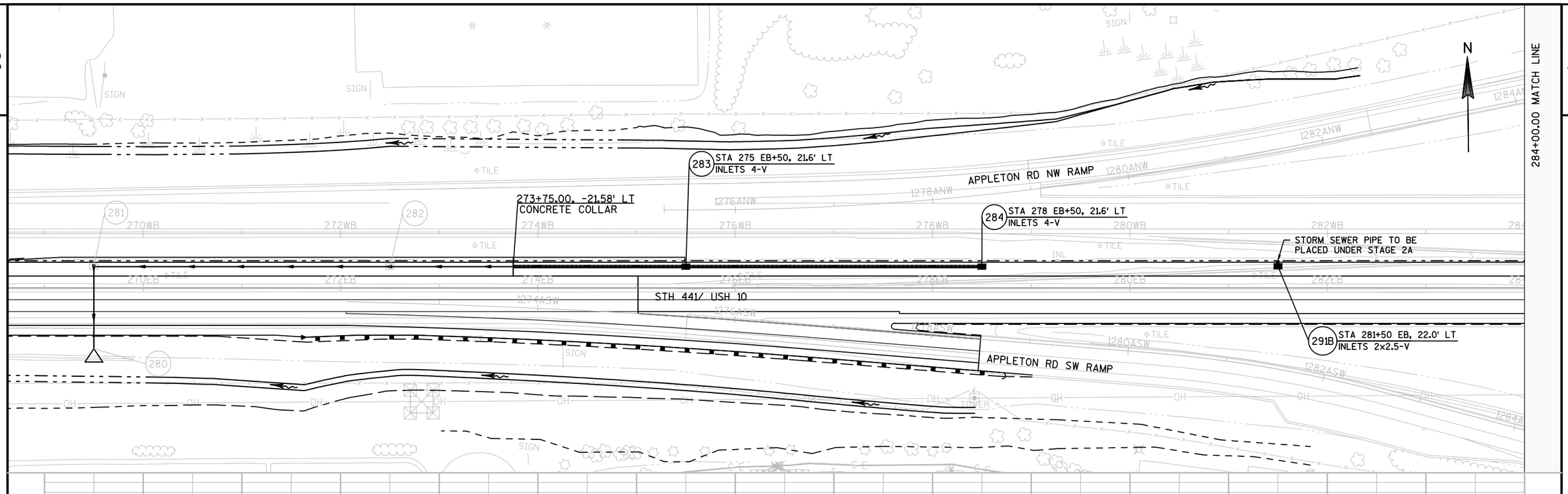
273+75.00, -21.58' LT
BULKHEAD STORM SEWER PIPE

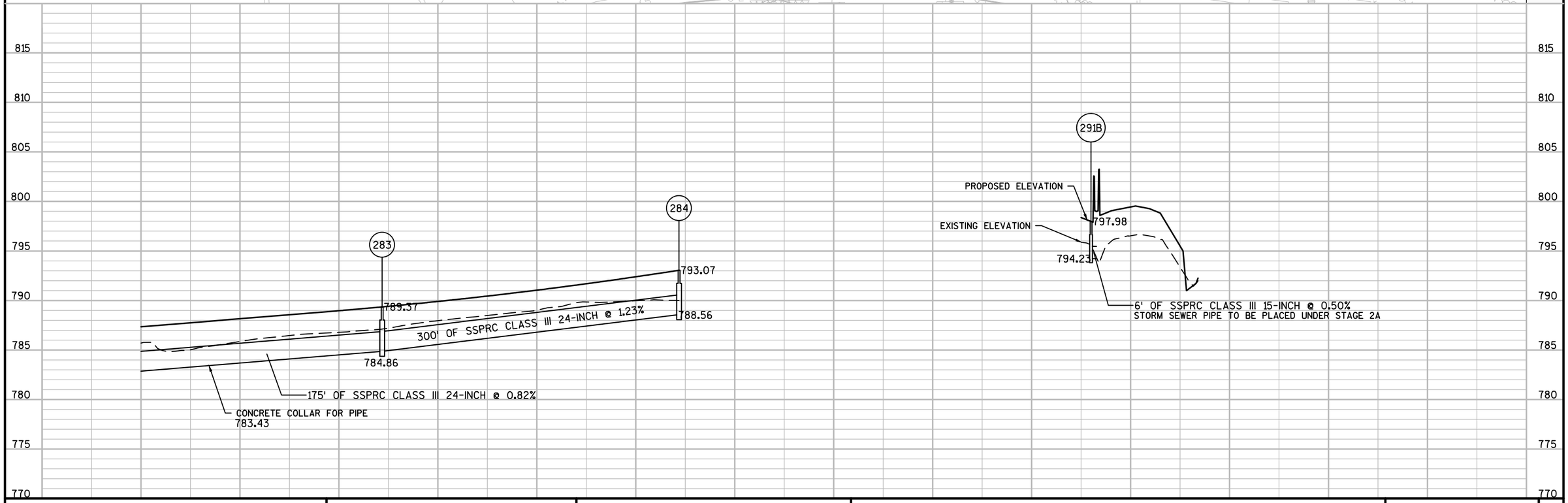
(281) STA 269+50 EB, 21.6' LT
CATCH BASINS 5-V

(280) STA 269+50 EB, 61.6' RT
APRON ENDWALLS FOR CPRC 30-INCH

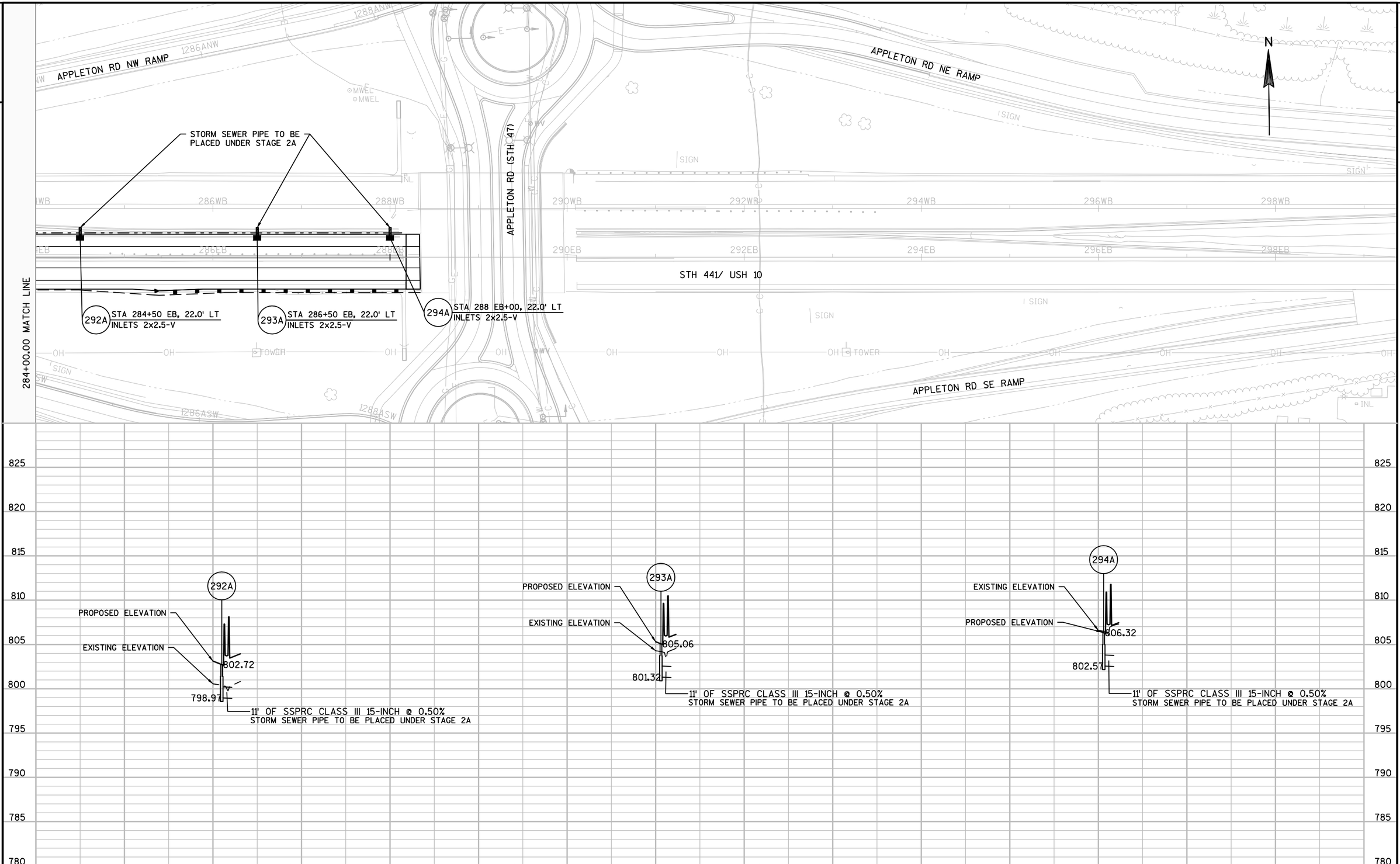


PROJECT NO: 1517-75-72	HWY: STH 441/USH 10	COUNTY: WINNEBAGO	STORM SEWER-STAGE 1A	SHEET 126 E

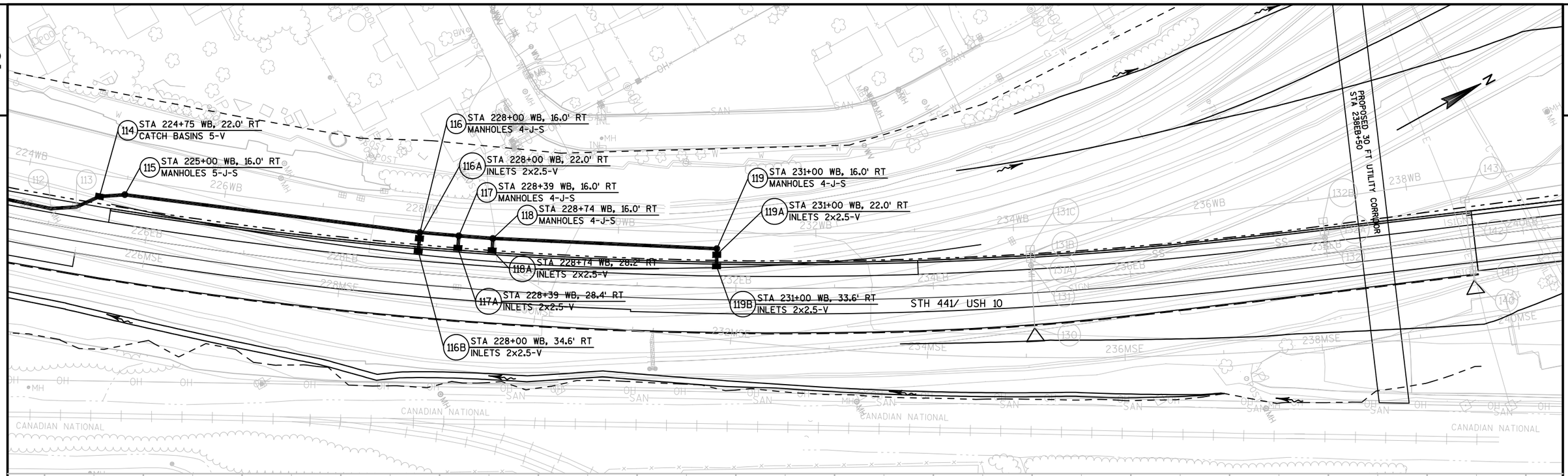


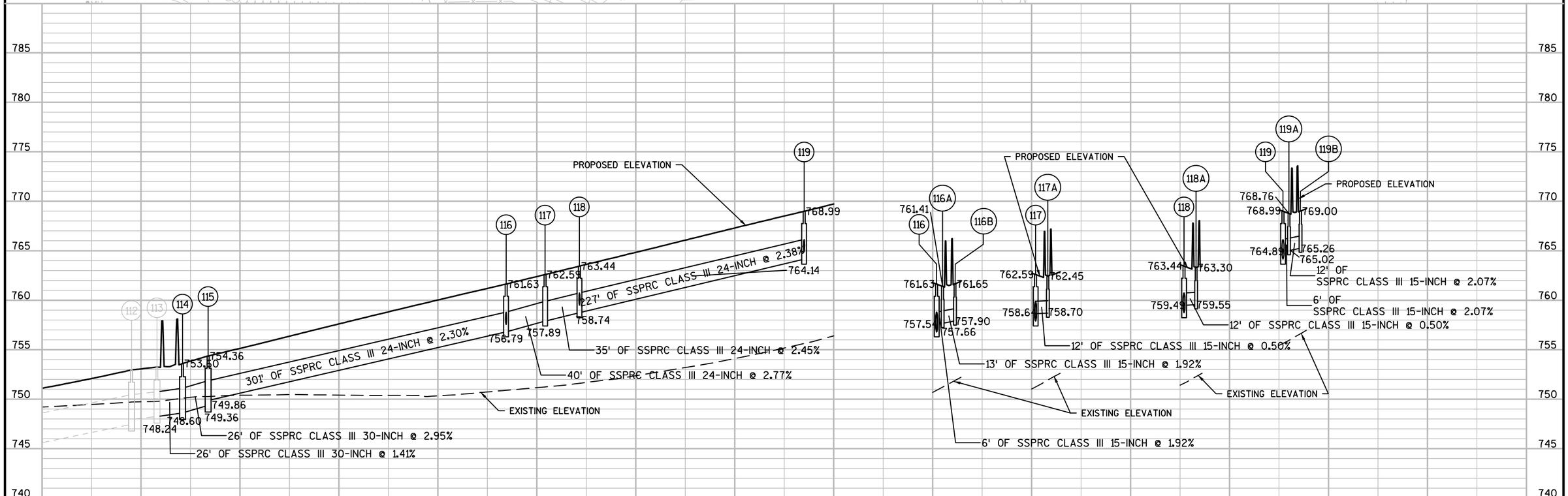


PROJECT NO: 1517-75-72	HWY: STH 441/USH 10	COUNTY: WINNEBAGO	STORM SEWER-STAGE 1B	SHEET 127 E



PROJECT NO: 1517-75-72	HWY: STH 441/USH 10	COUNTY: WINNEBAGO	STORM SEWER-STAGE 1B	SHEET 128 E





PROJECT NO: 1517-75-72	HWY: STH 441/USH 10	COUNTY: WINNEBAGO	STORM SEWER-STAGE 2A	SHEET 129 E

FILE NAME : S:\PDS\C3D\WIS441\15177570_72_77_85\SHEETSPLAN\1517-75-72\022500-SS\NE-15177572-022521-SS.DWG
LAYOUT NAME - 022521-SS
PLOT DATE : 2/9/2017 9:00 AM
PLOT BY : VICKMAN, GARRETT T PLOT NAME :
PLOT SCALE : 1 IN:100 FT
WISDOT/CADDS SHEET 41

2

STA 259 WB+23, 120.6' LT
APRON ENDWALLS FOR CULVERT PIPE 48-INCH (341)

(310) STA 256+01 WB, 171.9' LT
APRON ENDWALLS FOR CULVERT PIPE 48-INCH

STA 258 WB+50, 84.9' LT
APRON ENDWALLS FOR CPRC 24-INCH (230)

STA 255+83 WB, 188.7' LT
APRON ENDWALLS FOR CULVERT PIPE 48-INCH (311)

STA 259 WB+74, 119.8' LT
APRON ENDWALLS FOR CULVERT PIPE 48-INCH (340)

(241) STA 260+87 WB, 100.1' LT
APRON ENDWALLS FOR CULVERT PIPE 36-INCH

(260) STA 263+91 WB, 76.6' LT
APRON ENDWALLS FOR CPRC 18-INCH

CONCRETE COLLAR FOR PIPE

(261) STA 262+24 WB, 21.6' RT
INLETS 2x2.5-V

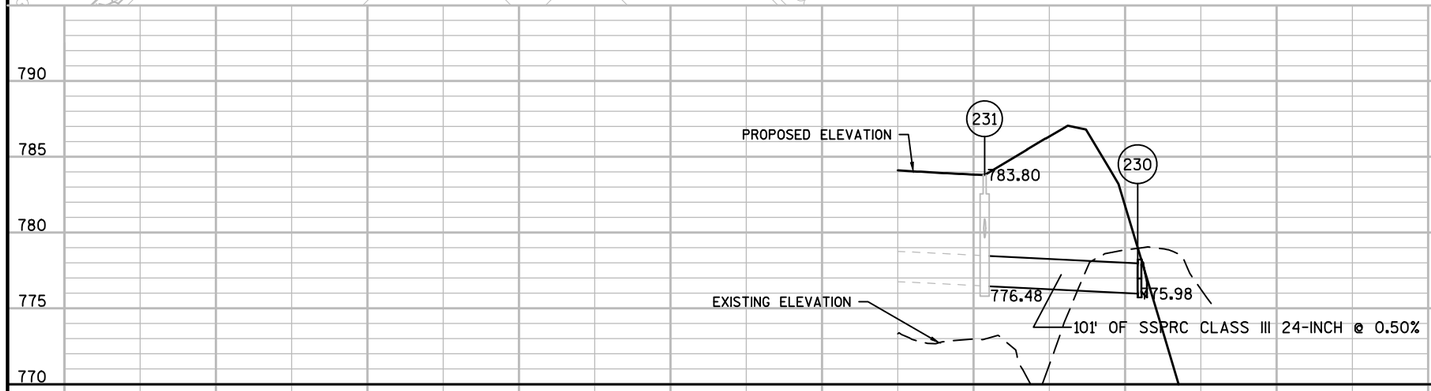
(262) STA 263+91 WB, 21.6' RT
INLETS 4-V

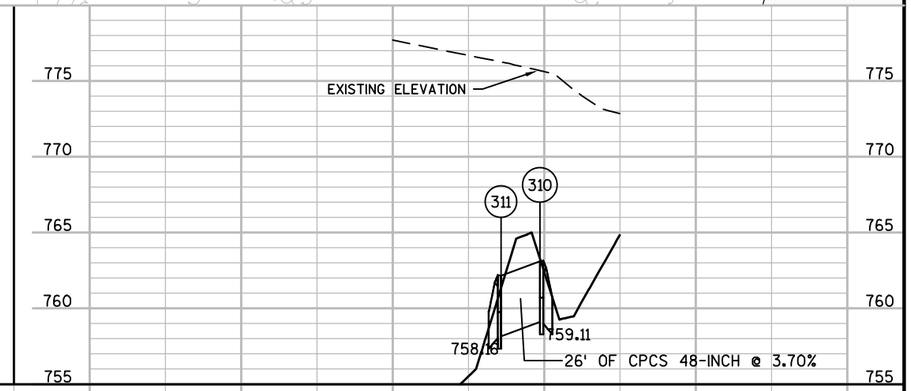
(263) STA 265+59 WB, 22.0' RT
INLETS 2x2.5-V

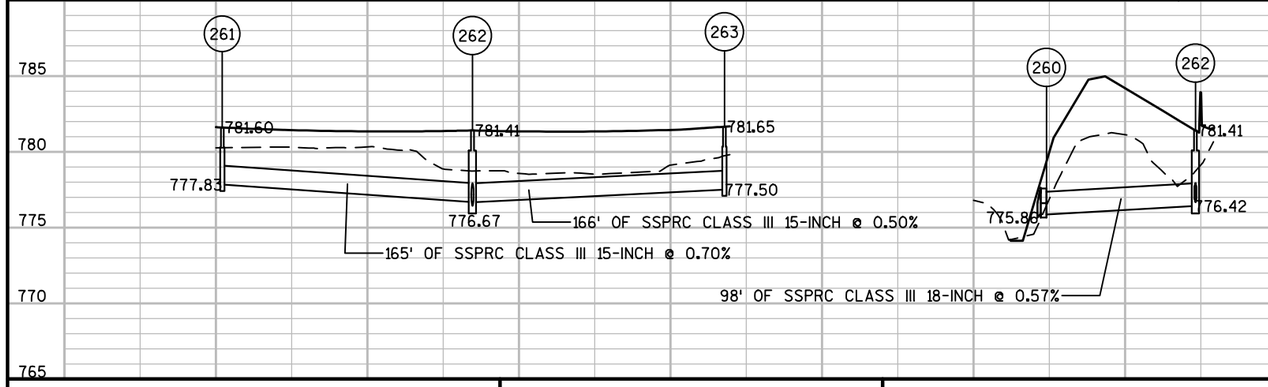
STH 441/ USH 10

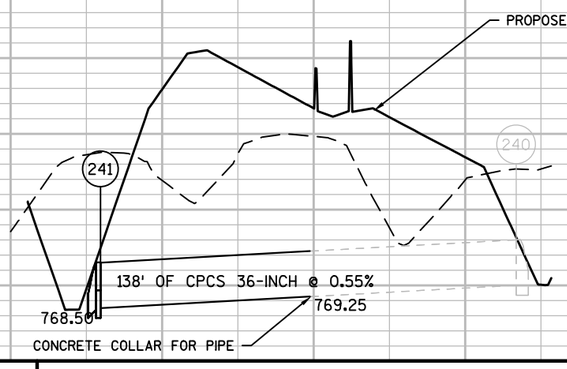
269+00.00 MATCH LINE

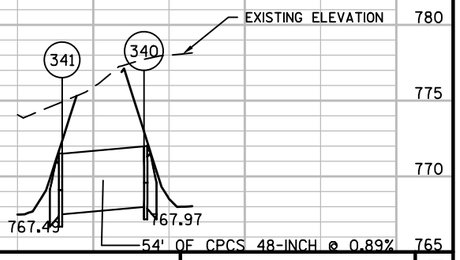
N











PROJECT NO: 1517-75-72	HWY: STH 441/USH 10	COUNTY: WINNEBAGO	STORM SEWER-STAGE 2A	SHEET 130	E

2

269+00.00 MATCH LINE

284+00.00 MATCH LINE

N

STA 281 EB+50, 110.4' LT
APRON ENDWALLS FOR CPRC 24-INCH (290)

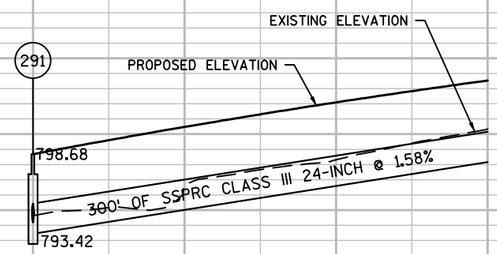
APPLETON RD NW RAMP

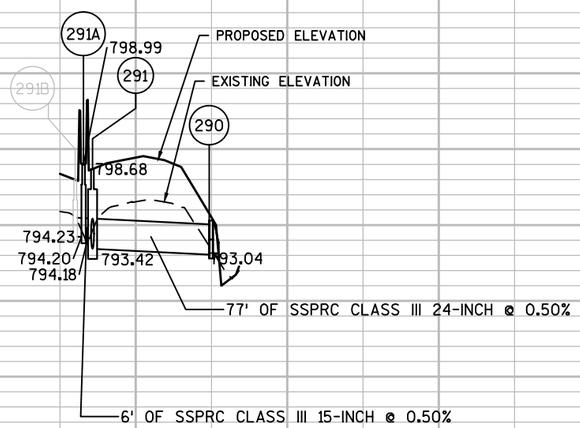
STA 281 EB+50, 33.4' LT
CATCH BASINS 5-V (291)

STA 281 EB+50, 27.5' LT
INLETS 2x2.5-V (291A)

STH 441/ USH 10

APPLETON RD SW RAMP

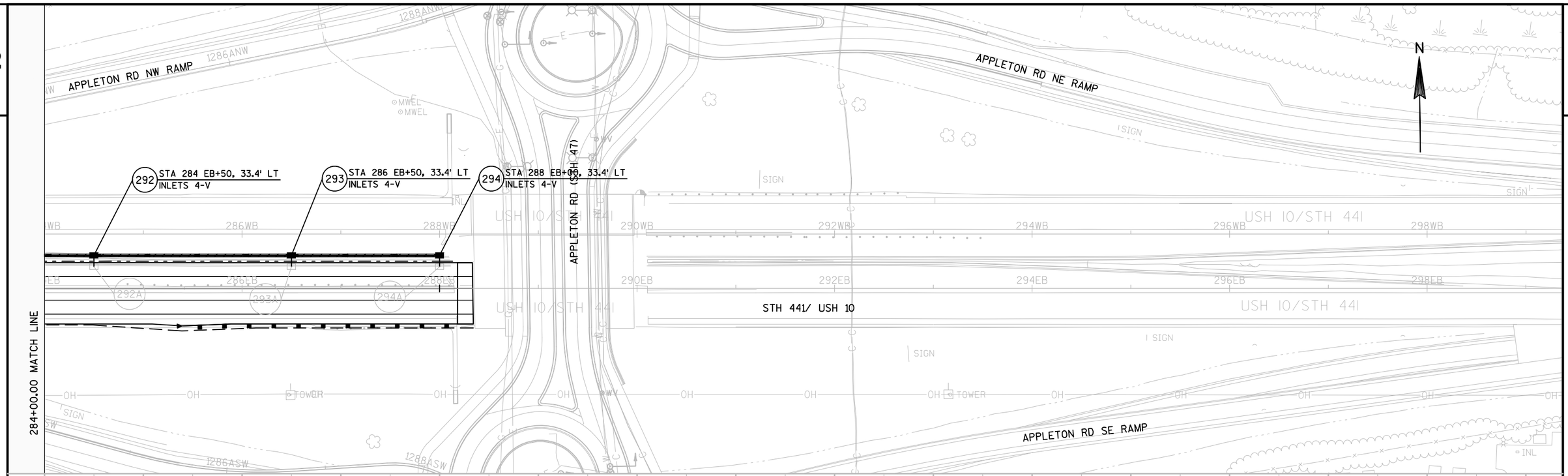


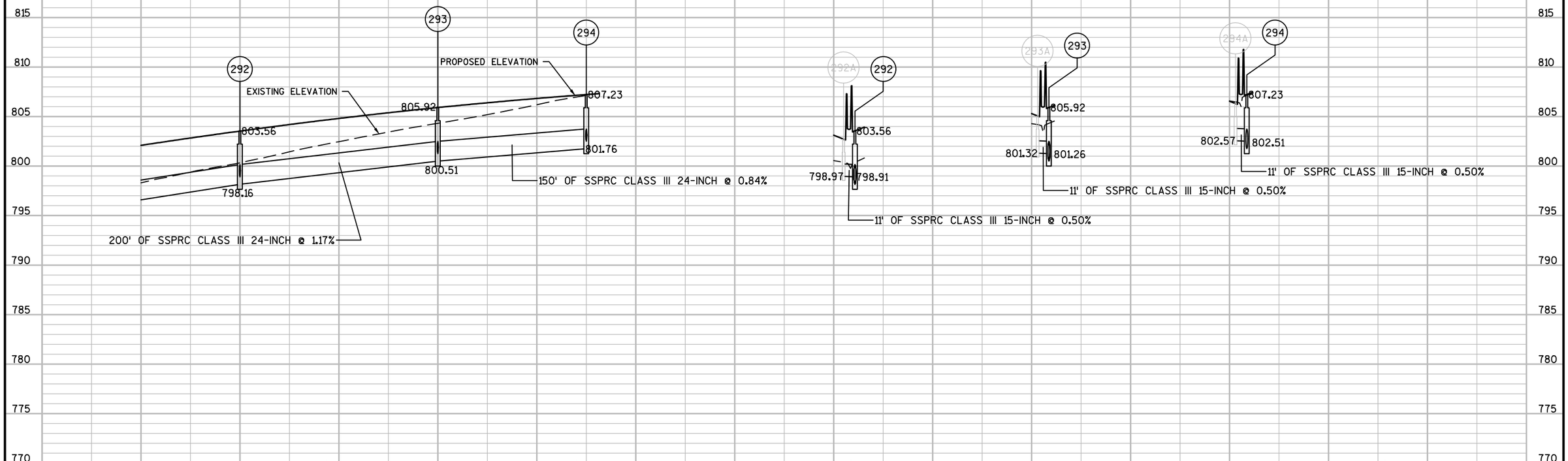


820 815 810 805 800 795 790 785 780 775

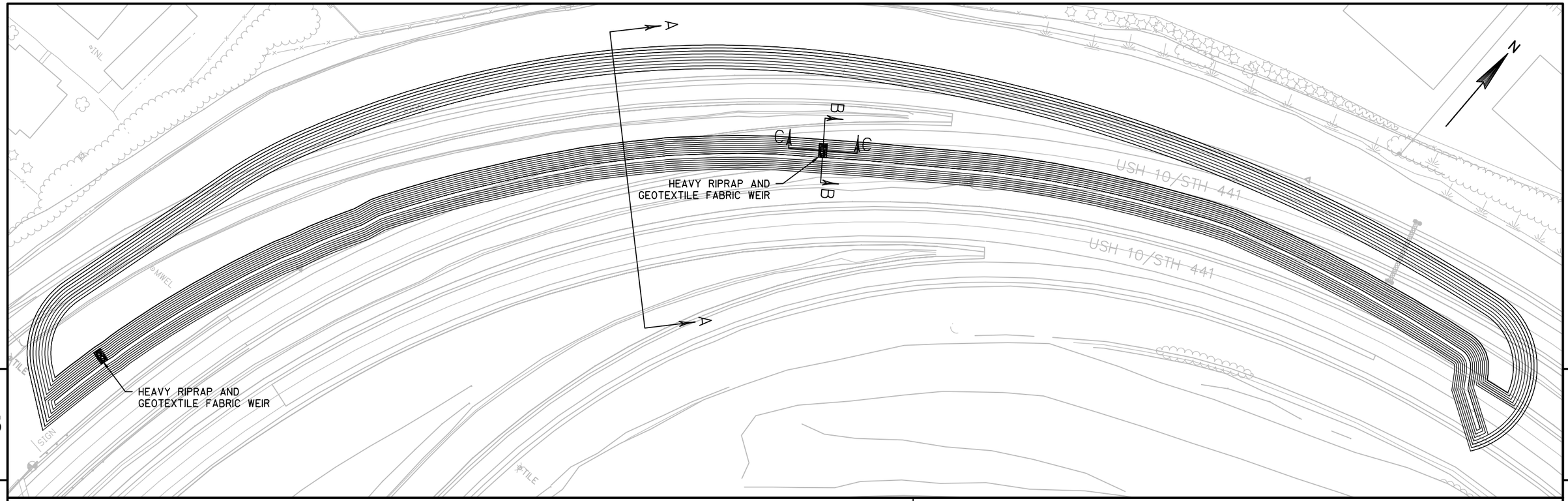
PROJECT NO: 1517-75-72	HWY: STH 441/USH 10	COUNTY: WINNEBAGO	STORM SEWER	SHEET 131	E

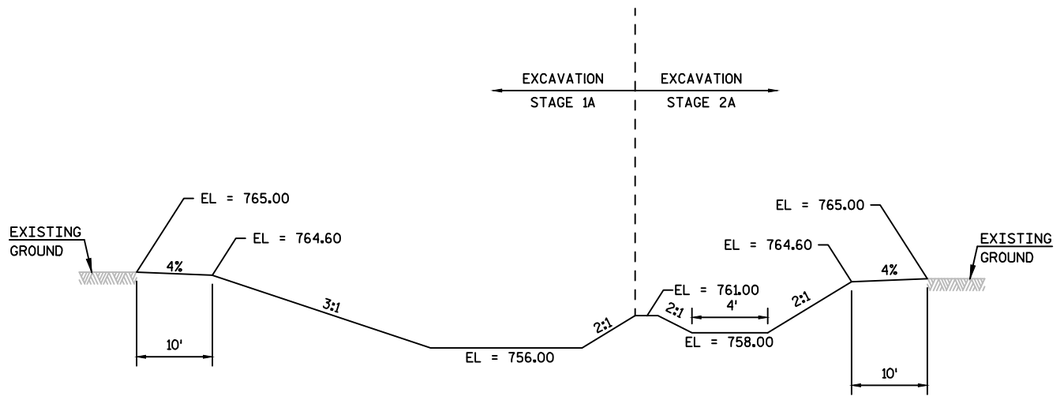
FILE NAME : S:\PDS\C3D\WIS441\15177570_72_77_85\SHEETSPLAN\1517-75-72\022500-SS\NE-15177572-022521-SS.DWG
LAYOUT NAME - 022523-SS
PLOT DATE : 2/9/2017 9:01 AM
PLOT BY : VICKMAN, GARRETT T PLOT NAME :
PLOT SCALE : 1 IN:100 FT
WISDOT/CADDS SHEET 41



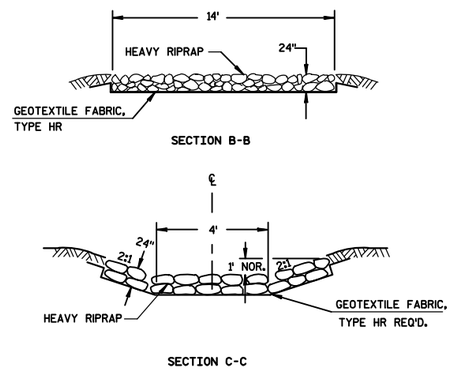


PROJECT NO: 1517-75-72	HWY: STH 441/USH 10	COUNTY: WINNEBAGO	STORM SEWER	SHEET 132 E





POND 4 (DRY) EXCAVATION SECTION A-A



HEAVY RIPRAP AND GEOTEXTILE FABRIC WEIR DETAIL

PROJECT NO: 1517-75-72	HWY: STH 441/USH 10	COUNTY: WINNEBAGO	POND MANAGEMENT: POND 4 (DRY) CONSTRUCTION DETAIL	SHEET 133	E

2

SIGNING NOTES

DO NOT MOVE OR REMOVE ANY SPECIFIC INFORMATION SIGNS (BLUE GAS, FOOD, LODGING, CAMPING OR ATTRACTION SIGNS) OR THEIR ASSOCIATED POSTS. A SEPARATE CONTRACTOR, DERSE, INC., MAINTAINS THESE SIGNS. CONTACT INTERSTATE LOGOS AT (844) 496-9163 A MINIMUM OF 14 CALENDAR DAYS IN ADVANCE TO COORDINATE MOVING, REMOVING OR RE-INSTALLATION OF THESE SIGNS.

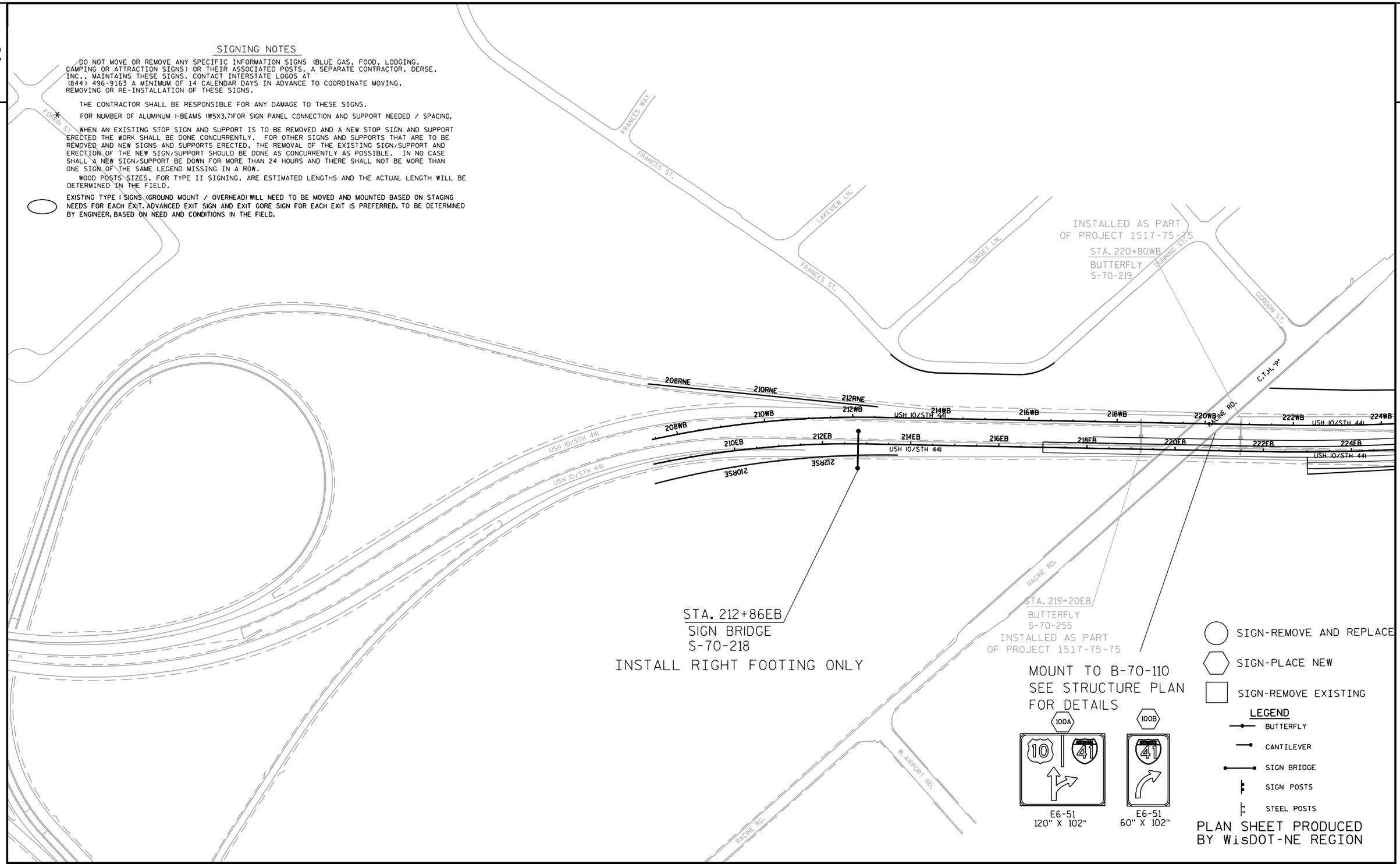
THE CONTRACTOR SHALL BE RESPONSIBLE FOR ANY DAMAGE TO THESE SIGNS.

* FOR NUMBER OF ALUMINUM I-BEAMS (W5X3.7)FOR SIGN PANEL CONNECTION AND SUPPORT NEEDED / SPACING,

WHEN AN EXISTING STOP SIGN AND SUPPORT IS TO BE REMOVED AND A NEW STOP SIGN AND SUPPORT ERECTED THE WORK SHALL BE DONE CONCURRENTLY. FOR OTHER SIGNS AND SUPPORTS THAT ARE TO BE REMOVED AND NEW SIGNS AND SUPPORTS ERECTED, THE REMOVAL OF THE EXISTING SIGN/SUPPORT AND ERECTION OF THE NEW SIGN/SUPPORT SHOULD BE DONE AS CONCURRENTLY AS POSSIBLE. IN NO CASE SHALL A NEW SIGN/SUPPORT BE DOWN FOR MORE THAN 24 HOURS AND THERE SHALL NOT BE MORE THAN ONE SIGN OF THE SAME LEGEND MISSING IN A ROW.

WOOD POSTS SIZES, FOR TYPE II SIGNING, ARE ESTIMATED LENGTHS AND THE ACTUAL LENGTH WILL BE DETERMINED IN THE FIELD.

EXISTING TYPE I SIGNS (GROUND MOUNT / OVERHEAD) WILL NEED TO BE MOVED AND MOUNTED BASED ON STAGING NEEDS FOR EACH EXIT. ADVANCED EXIT SIGN AND EXIT GORE SIGN FOR EACH EXIT IS PREFERRED. TO BE DETERMINED BY ENGINEER, BASED ON NEED AND CONDITIONS IN THE FIELD.



PROJECT NO:1517-75-72	HWY: USH 10	COUNTY: WINNEBAGO	PERMANENT SIGNING	SHEET 134	E

FILE NAME : N:\spo\traffic\SIGNING\Projects\1517-75-72 STH 441-USH 10 Racine-STH47 ML\PERMANANT SIGNING.dgn PLOT DATE : 03-APR-2017 15:43 PLOT BY : dotets PLOT NAME : PLOT SCALE : 200:1

WISDOT/CADDS SHEET 42

2

SIGNING NOTES

DO NOT MOVE OR REMOVE ANY SPECIFIC INFORMATION SIGNS (BLUE GAS, FOOD, LODGING, CAMPING OR ATTRACTION SIGNS) OR THEIR ASSOCIATED POSTS. A SEPARATE CONTRACTOR, INTERSTATE LOGOS, INC., MAINTAINS THESE SIGNS. CONTACT INTERSTATE LOGOS AT (844) 496-9163 A MINIMUM OF 14 CALENDAR DAYS IN ADVANCE TO COORDINATE MOVING, REMOVING OR RE-INSTALLATION OF THESE SIGNS.

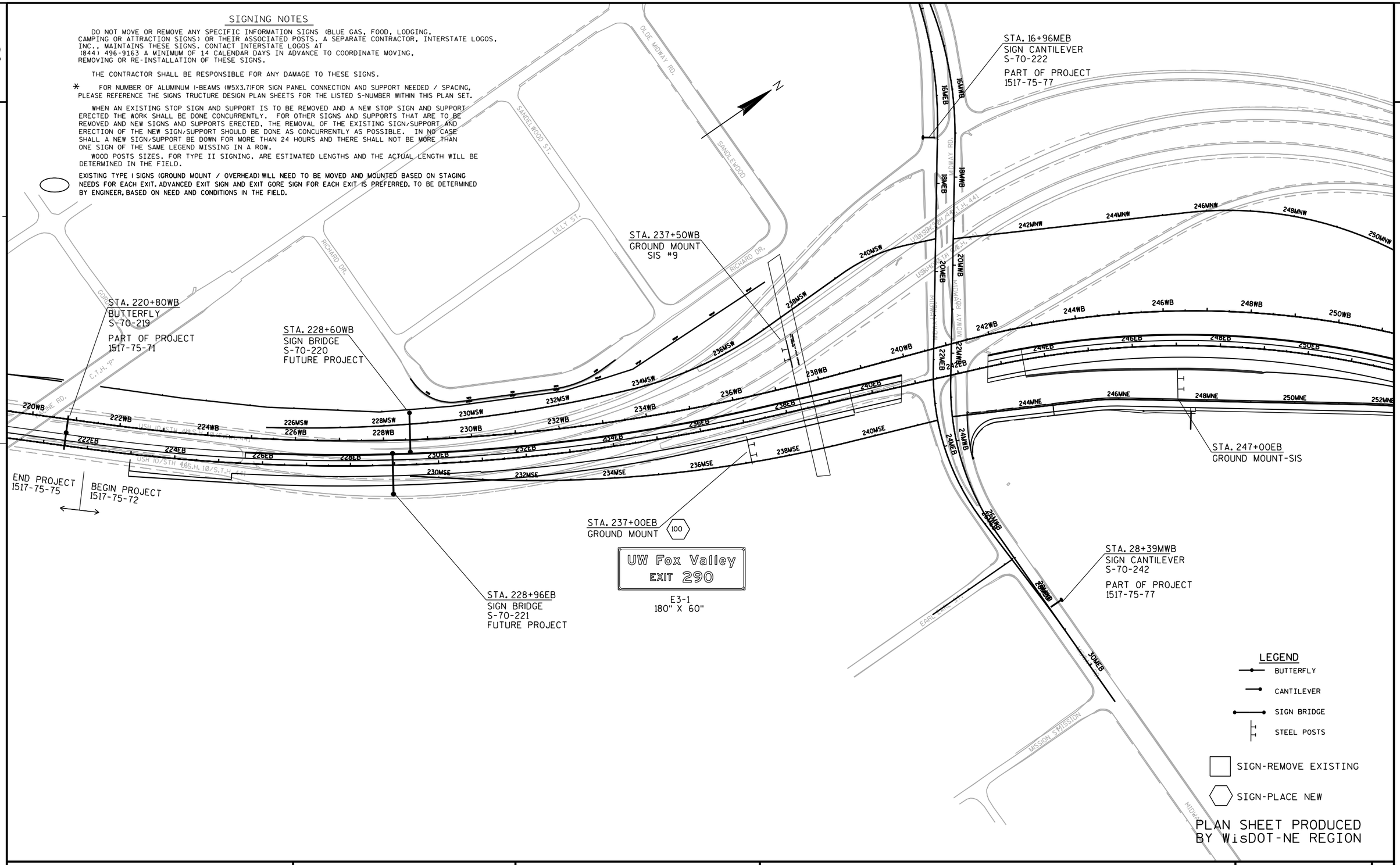
THE CONTRACTOR SHALL BE RESPONSIBLE FOR ANY DAMAGE TO THESE SIGNS.

* FOR NUMBER OF ALUMINUM I-BEAMS (W5X3.7)FOR SIGN PANEL CONNECTION AND SUPPORT NEEDED / SPACING, PLEASE REFERENCE THE SIGNS TRUCTURE DESIGN PLAN SHEETS FOR THE LISTED S-NUMBER WITHIN THIS PLAN SET.

WHEN AN EXISTING STOP SIGN AND SUPPORT IS TO BE REMOVED AND A NEW STOP SIGN AND SUPPORT ERECTED THE WORK SHALL BE DONE CONCURRENTLY. FOR OTHER SIGNS AND SUPPORTS THAT ARE TO BE REMOVED AND NEW SIGNS AND SUPPORTS ERECTED, THE REMOVAL OF THE EXISTING SIGN/SUPPORT AND ERECTION OF THE NEW SIGN/SUPPORT SHOULD BE DONE AS CONCURRENTLY AS POSSIBLE. IN NO CASE SHALL A NEW SIGN/SUPPORT BE DOWN FOR MORE THAN 24 HOURS AND THERE SHALL NOT BE MORE THAN ONE SIGN OF THE SAME LEGEND MISSING IN A ROW.

WOOD POSTS SIZES, FOR TYPE II SIGNING, ARE ESTIMATED LENGTHS AND THE ACTUAL LENGTH WILL BE DETERMINED IN THE FIELD.

EXISTING TYPE I SIGNS (GROUND MOUNT / OVERHEAD) WILL NEED TO BE MOVED AND MOUNTED BASED ON STAGING NEEDS FOR EACH EXIT. ADVANCED EXIT SIGN AND EXIT GORE SIGN FOR EACH EXIT IS PREFERRED. TO BE DETERMINED BY ENGINEER, BASED ON NEED AND CONDITIONS IN THE FIELD.



PROJECT NO: 1517-75-72	HWY: USH 10	COUNTY: WINNEBAGO	PERMANENT SIGNING	SHEET 135	E

FILE NAME : N:\spo\traffic\SIGNING\Projects\1517-75-72 STH 441-USH 10 Racine-STH47 ML\PERMANANT SIGNING.dgn PLOT DATE : 03-APR-2017 15:43 PLOT BY : dotets PLOT NAME : PLOT SCALE : 200:1

WISDOT/CADDS SHEET 42

2

SIGNING NOTES

DO NOT MOVE OR REMOVE ANY SPECIFIC INFORMATION SIGNS (BLUE GAS, FOOD, LODGING, CAMPING OR ATTRACTION SIGNS) OR THEIR ASSOCIATED POSTS, A SEPARATE CONTRACTOR, INTERSTATE LOGOS, INC., MAINTAINS THESE SIGNS. CONTACT INTERSTATE LOGOS AT (844) 496-9163 A MINIMUM OF 14 CALENDAR DAYS IN ADVANCE TO COORDINATE MOVING, REMOVING OR RE-INSTALLATION OF THESE SIGNS.

THE CONTRACTOR SHALL BE RESPONSIBLE FOR ANY DAMAGE TO THESE SIGNS.

* FOR NUMBER OF ALUMINUM I-BEAMS (W5X3.7)FOR SIGN PANEL CONNECTION AND SUPPORT NEEDED / SPACING, PLEASE REFERENCE THE SIGNS TRUCTURE DESIGN PLAN SHEETS FOR THE LISTED S-NUMBER WITHIN THIS PLAN SET.

WHEN AN EXISTING STOP SIGN AND SUPPORT IS TO BE REMOVED AND A NEW STOP SIGN AND SUPPORT ERECTED THE WORK SHALL BE DONE CONCURRENTLY. FOR OTHER SIGNS AND SUPPORTS THAT ARE TO BE REMOVED AND NEW SIGNS AND SUPPORTS ERECTED, THE REMOVAL OF THE EXISTING SIGN/SUPPORT AND ERECTION OF THE NEW SIGN/SUPPORT SHOULD BE DONE AS CONCURRENTLY AS POSSIBLE. IN NO CASE SHALL A NEW SIGN/SUPPORT BE DOWN FOR MORE THAN 24 HOURS AND THERE SHALL NOT BE MORE THAN ONE SIGN OF THE SAME LEGEND MISSING IN A ROW.

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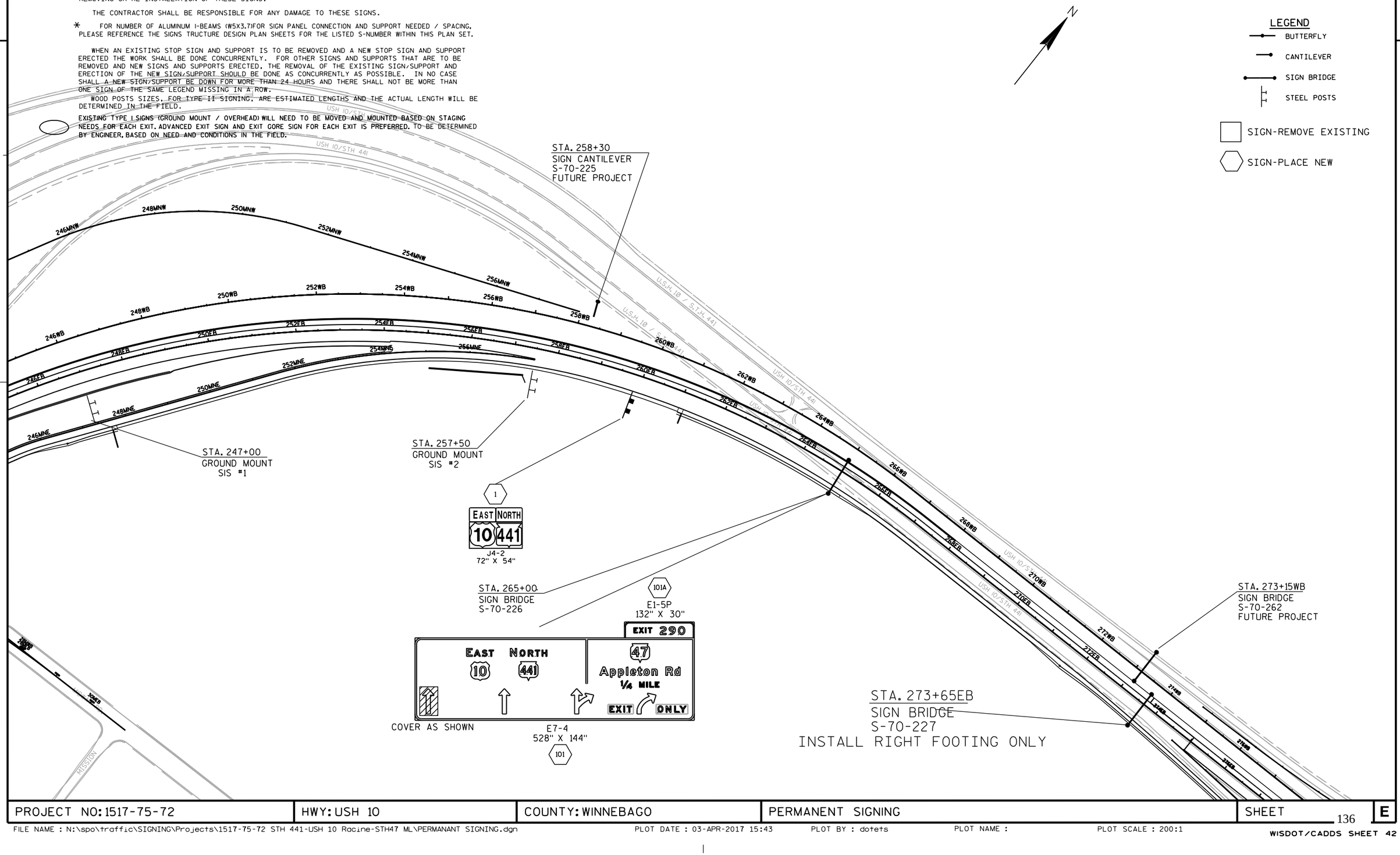
PLAN SHEET PRODUCED BY WisDOT-NE REGION

LEGEND

- BUTTERFLY
- CANTILEVER
- SIGN BRIDGE
- STEEL POSTS
- SIGN-REMOVE EXISTING
- SIGN-PLACE NEW



PROJECT NO: 1517-75-72	HWY: USH 10	COUNTY: WINNEBAGO	PERMANENT SIGNING	SHEET	E

FILE NAME : N:\spo\traffic\SIGNING\Projects\1517-75-72 STH 441-USH 10 Racine-STH47 ML\PERMANANT SIGNING.dgn PLOT DATE : 03-APR-2017 15:43 PLOT BY : dotets PLOT NAME : PLOT SCALE : 200:1

WISDOT/CADDS SHEET 42

2

SIGNING NOTES

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N

PLAN SHEET PRODUCED BY WisDOT-NE REGION

LEGEND
- BUTTERFLY
- CANTILEVER
- SIGN BRIDGE
- STEEL POSTS
- SIGN-REMOVE EXISTING
- SIGN-PLACE NEW

NOVAK DR

STA. 273+15WB
SIGN BRIDGE
S-70-262

STA. 273+65EB
SIGN BRIDGE
S-70-227

USH 10/STH 441

1275ANW 1280ANW 1285ANW 1290ANE 1295ANE 1300ANE
280WB 285WB 290WB 295WB 300WB
275EB 280EB 285EB 290EB 295EB 300EB
1275ASW 1280ASW 1285ASW 1288ASW 1290ASE 1295ASE 1300ASE
10ASBS 13ASBS 10-00ANBS
1345BN 1345SBN 1288ANW 1290ANE 1295SBN 1295NBN 1290ANE 1290ASE 1288ASW 1288ASE 1295SRT 1295NRT 115ASB 115ANB

10 12

2
EXIT
290
E5-1A
90" X 60"

3
Appleton Rd
NORTH SOUTH
Appleton
Menasha
D1-4
90" X 54"

4
UW Fox Valley
D1-1
96" X 15"

102
STA. 284+00
GROUND MOUNT
Downtown Appleton
EXIT 291
E3-1
228" X 54"

5D 9D

PROJECT NO: 1517-75-72	HWY: USH 10	COUNTY: WINNEBAGO	PERMANENT SIGNING	SHEET 137	E

FILE NAME : N:\spo\traffic\SIGNING\Projects\1517-75-72 STH 441-USH 10 Racine-STH47 ML\PERMANANT SIGNING.dgn PLOT DATE : 03-APR-2017 15:43 PLOT BY : dotets PLOT NAME : PLOT SCALE : 200:1

WISDOT/CADDS SHEET 42

2

2

SIS

W4-3

21

SPEED LIMIT 55

R2-1

20

TO 47 COUNTY AP

J3-2

24

25

WRONG WAY

R5-1A

26

W1-6

27

W4-1

EXCEPT MAINTENANCE AND POLICE AUTHORIZED VEHICLES

R3-4B

11

REMOVE EXISTING E1-51A & E1-5 22

REMOVE EXISTING GROUND MOUNT

19

WRONG WAY

R5-1A

10

EXCEPT MAINTENANCE AND POLICE AUTHORIZED VEHICLES

R3-4B

12 REMOVE EXISTING E7-2, E6-1 AND E1-5

REMOVE EXISTING SIGN BRIDGE

14

EXIT 289B

E5-1A

15

W3-1

16

Midway Rd

WEST EAST

To Racine St

D1-3

17

TO COUNTY AP 47

J3-2

18

WRONG WAY

R5-1A

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LEGEND

- BUTTERFLY
- CANTILEVER
- SIGN BRIDGE
- STEEL POSTS
- SIGN-REMOVE EXISTING

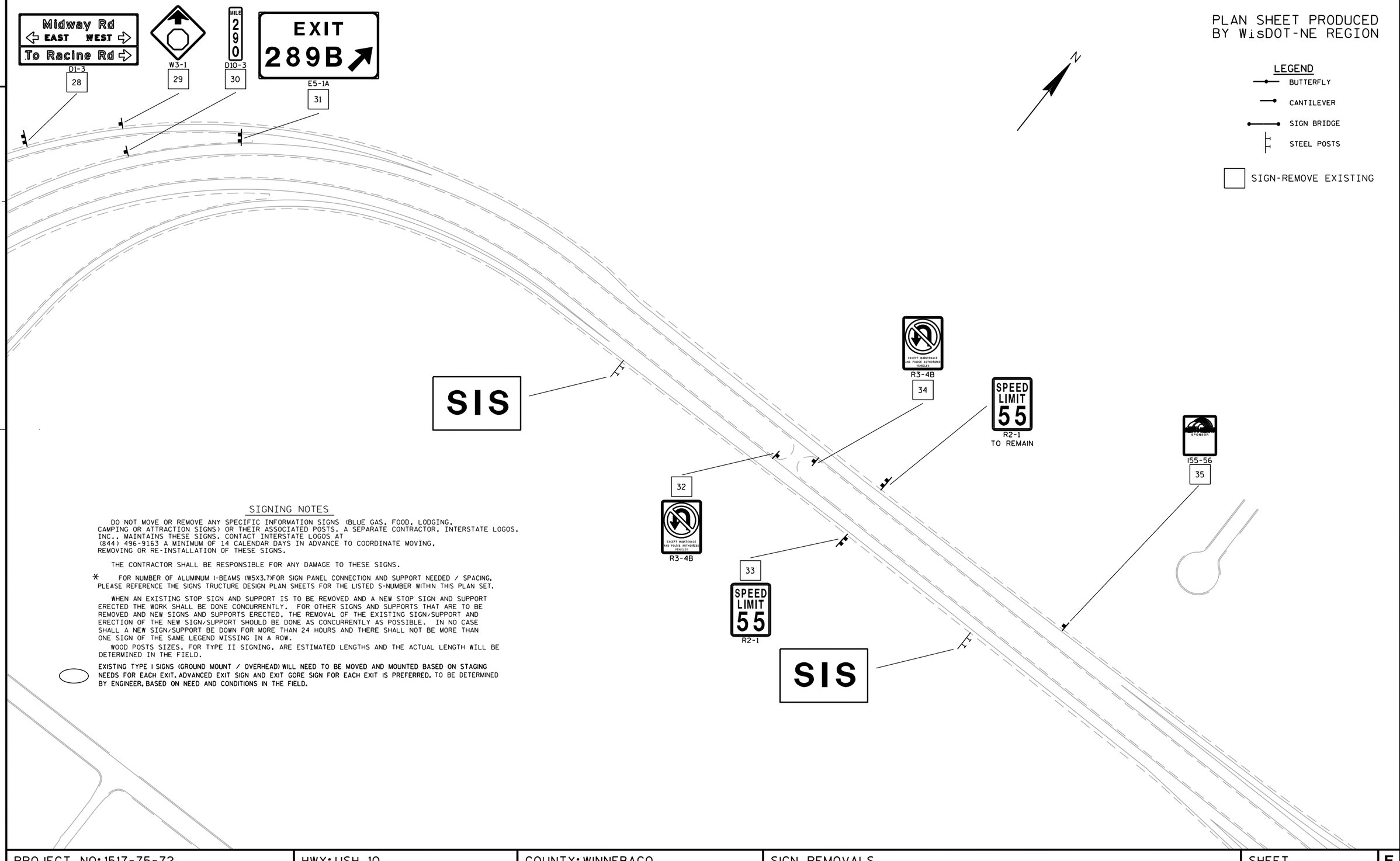
PLAN SHEET PRODUCED BY WisDOT-NE REGION

PROJECT NO: 1517-75-72	HWY: USH 10	COUNTY: WINNEBAGO	SIGN REMOVALS	SHEET 138	E

PLAN SHEET PRODUCED
BY WisDOT-NE REGION

2

LEGEND
- BUTTERFLY
- CANTILEVER
- SIGN BRIDGE
- STEEL POSTS
- SIGN-REMOVE EXISTING



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PROJECT NO: 1517-75-72	HWY: USH 10	COUNTY: WINNEBAGO	SIGN REMOVALS	SHEET	E

FILE NAME : N:\spo\traffic\SIGNING\Projects\1517-75-72 STH 441-USH 10 Racine-STH47 ML\PERMANANT SIGNING.dgn PLOT DATE : 03-APR-2017 15:43 PLOT BY : dotets PLOT NAME : PLOT SCALE : 200:1

2

2

N

W4-1
TO REMAIN

REMOVE EXISTING
E4-1A AND E1-5
REMOVE EXISTING
GROUND MOUNT

36

2M-01

37

EXIT
290

E5-1A

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LEGEND

- BUTTERFLY
- CANTILEVER
- SIGN BRIDGE
- STEEL POSTS
- SIGN-REMOVE EXISTING
- SIGN-PLACE NEW

PLAN SHEET PRODUCED
BY WisDOT-NE REGION

PROJECT NO: 1517-75-72	HWY: USH 10	COUNTY: WINNEBAGO	SIGN REMOVALS	SHEET 140	E

PLAN SHEET PRODUCED
BY WisDOT-NE REGION

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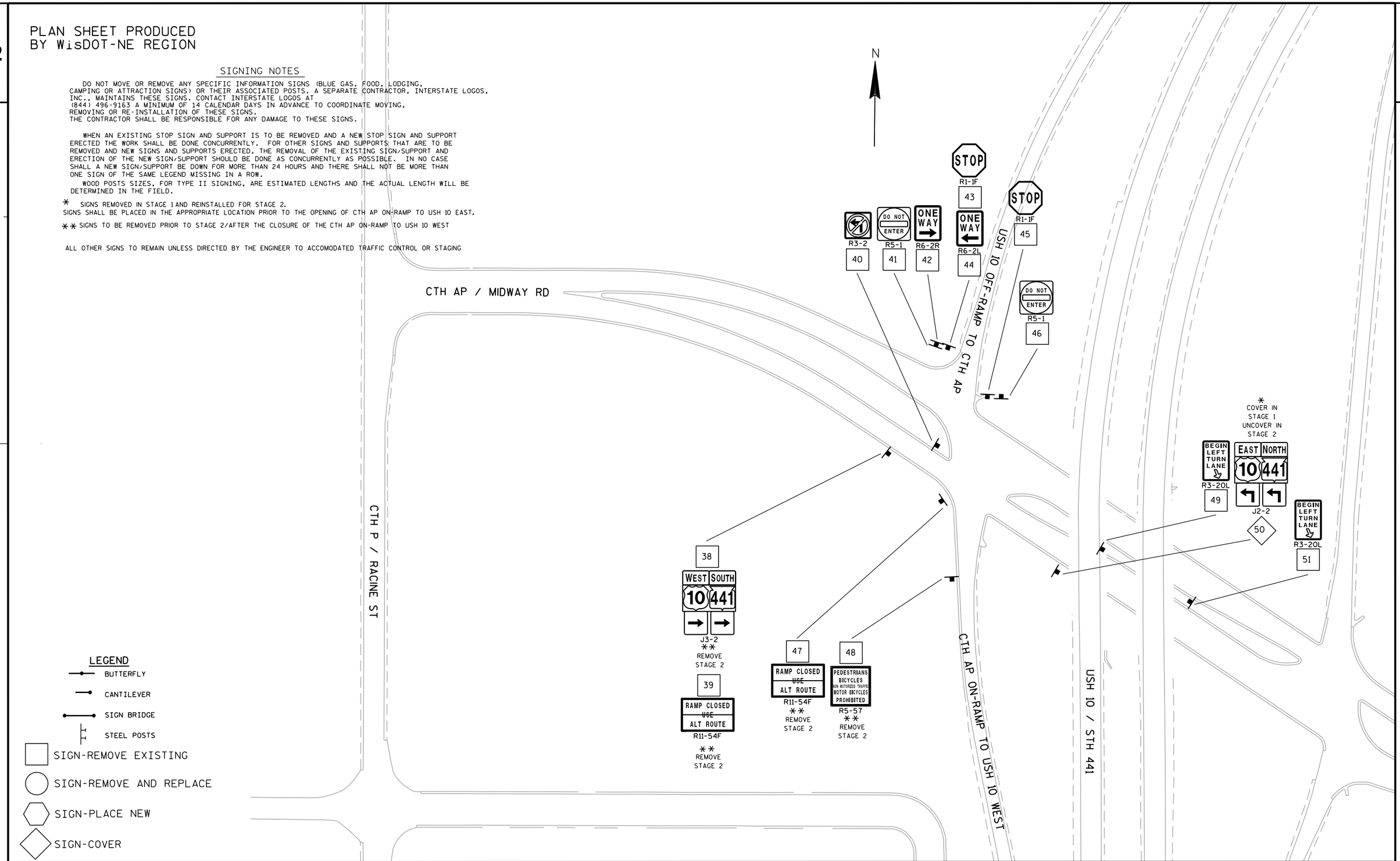
SIGNS SHALL BE PLACED IN THE APPROPRIATE LOCATION PRIOR TO THE OPENING OF CTH AP ON-RAMP TO USH 10 EAST.

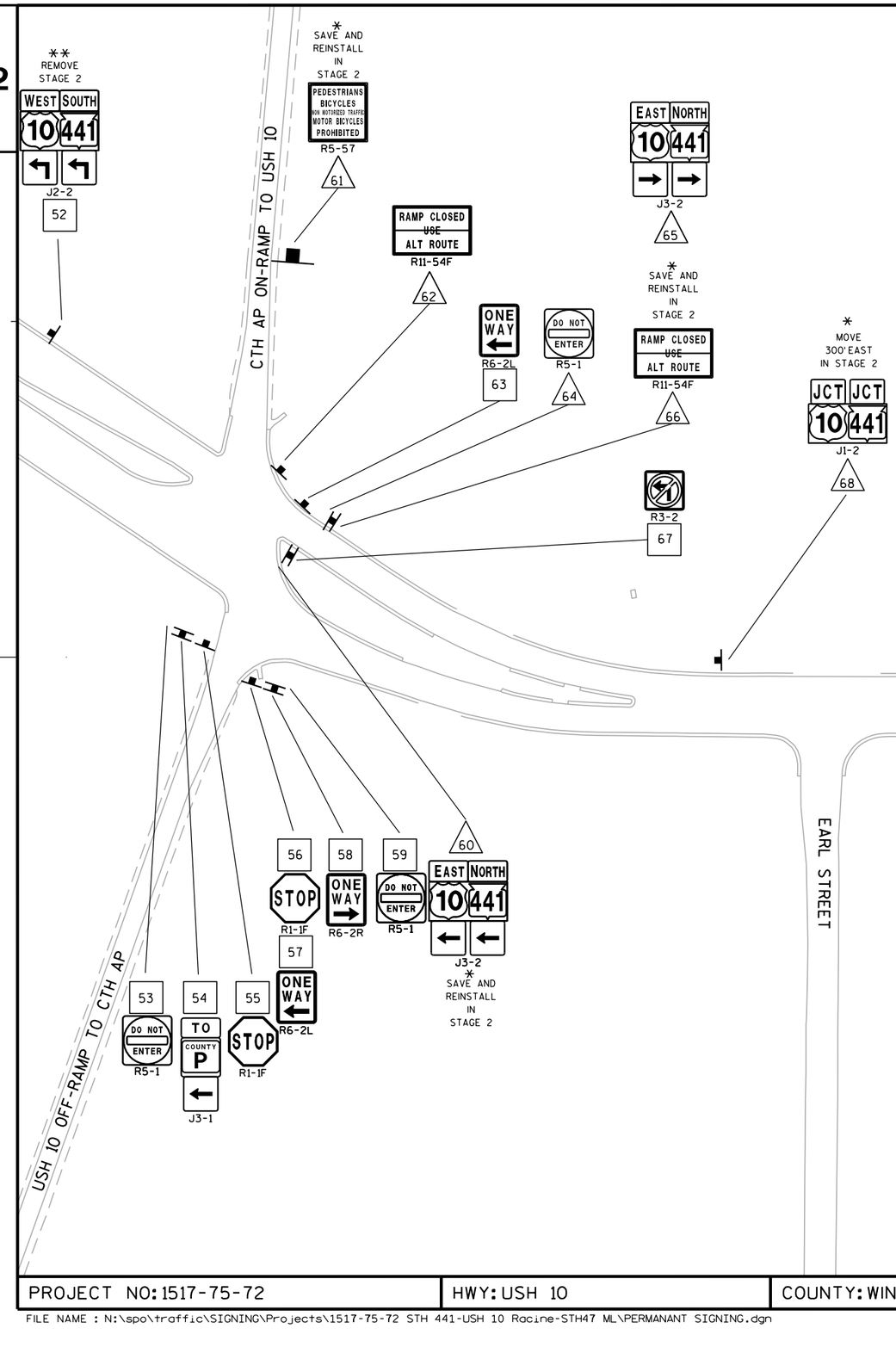
** SIGNS TO BE REMOVED PRIOR TO STAGE 2/AFTER THE CLOSURE OF THE CTH AP ON-RAMP TO USH 10 WEST

ALL OTHER SIGNS TO REMAIN UNLESS DIRECTED BY THE ENGINEER TO ACCOMODATED TRAFFIC CONTROL OR STAGING



LEGEND
- BUTTERFLY
- CANTILEVER
- SIGN BRIDGE
- STEEL POSTS
- SIGN-REMOVE EXISTING
- SIGN-REMOVE AND REPLACE
- SIGN-PLACE NEW
- SIGN-COVER

PROJECT NO: 1517-75-72	HWY: USH 10	COUNTY: WINNEBAGO	SIGN REMOVALS	SHEET 141 E



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LEGEND

- BUTTERFLY
- CANTILEVER
- SIGN BRIDGE
- STEEL POSTS
- SIGN-REMOVE EXISTING
- SIGN-REMOVE AND REPLACE
- SIGN-PLACE NEW
- SIGN-MOVE

PLAN SHEET PRODUCED BY WisDOT-NE REGION

PROJECT NO: 1517-75-72	HWY: USH 10	COUNTY: WINNEBAGO	SIGN REMOVALS	SHEET 142	E

GENERAL NOTES

THESE PLANS AND THE ASSOCIATED SPECIAL PROVISIONS REFLECT CONDITIONS KNOWN DURING THE DEVELOPMENT OF THE PLANS AND TECHNICAL SPECIAL PROVISIONS. ALL SCALES, DIMENSIONS AND LOCATIONS SHOWN IN THESE PLANS ARE APPROXIMATE. ACTUAL PHYSICAL FIELD CONDITIONS SHALL PROVIDE THE BASIS FOR THE APPLICATION OF WORK SHOWN IN THE PLANS. THE CONTRACTOR IS FULLY RESPONSIBLE FOR THE APPLICATION OF ALL WORK SHOWN IN THE PLANS TO THE ACTUAL PHYSICAL FIELD CONDITIONS TO PROVIDE A COMPLETE AND ACCEPTED PRJOECT. IN THE EVENT THAT ACTUAL PHYSICAL FIELD CONDITIONS AFFECT OR PREVENT THE APPLICATION OR PROGRESSION OF ANY WORK SHOWN IN THE PLANS OR TECHNICAL SPECIAL PROVISIONS, THE CONTRACTOR SHALL NOTIFY THE ENGINEER IMMEDIATELY, AND PRIOR TO ANY FURTHER WORK ACTIVITY. THE CONTRACTOR SHALL IMMEDIATELY NOTIFY THE ENGINEER OF ANY LOCATION CHANGES OTHER THAN MINOR ADJUSTMENTS.

BE AWARE THAT ALL EXISTING UNDERGROUND AND ABOVE GROUND STRUCTURES AND FACILITIES WITHIN THE SCOPE OF THIS PROJECT MAY NOT BE LOCATED IN THE PLANS. THE CONTRACTOR IS FULLY RESPONSIBLE FOR LOCATING AND AVOIDING ALL UNDERGROUND AND ABOVE GROUND STRUCTURES AND FACILITIES.

BE AWARE THAT NO TEST BORINGS WERE MADE WHERE CONDUITS, PULL BOXES, COMMUNICATIONS VAULTS, POLES, FOUNDATIONS, OR OTHER EQUIPMENT IS TO BE INSTALLED. THE CONTRACTOR IS FULLY RESPONSIBLE FOR EXAMINING THE JOB SITE CONDITIONS BEFORE SUBMITTING BID PROPOSALS.

NO TREES (AND/OR SHRUBS) ARE TO BE REMOVED WITHOUT APPROVAL OF THE ENGINEER.

AREAS WITHIN RIGHT-OF-WAY DISTURBED SPECIFICALLY FOR ITS CONSTRUCTION ARE TO BE RESTORED TO THE ORIGINAL CONDITION WITH TOPSOIL, FERTILIZER, AND SEED AND MULCH. RESTORATION FOR AREAS DISTURBED FOR OTHER CONSTRUCTION OPERATIONS, BUT ALSO CONTAINING ITS CONSTRUCTION, WILL BE DONE ACCORDING TO REQUIREMENTS AND PAYMENT PROVISIONS FOR THE OTHER CONSTRUCTION OPERATIONS. NO PAYMENT WILL BE MADE FOR RESTORING AREAS DISTURBED FOR ITS CONSTRUCTION OPERATIONS.

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

BE ADVISED THAT DUE TO RAMP, LANE AND SHOULDER CLOSURE RESTRICTIONS AND WORK UNDER OTHER CONTRACTS, SOME WORK MAY BE REQUIRED TO BE PERFORMED AT NIGHT.

THE CONTRACTOR IS RESPONSIBLE FOR COORDINATING RAMP, LANE, SHOULDER, AND ROADWAY CLOSURES WITH OTHER CONTRACTORS IN THE AREA.

NOTIFY THE REGIONAL TRAFFIC UNIT (920-492-7719) A MINIMUM OF TWO (2) WEEKS PRIOR TO THE NEED TO STAKE THE FOLLOWING ITEMS: CCTV CAMERA BASE, ITS FIELD CABINET BASE, MICROWAVE DETECTOR BASES, CONDUIT, PULL BOXES AND COMMUNICATIONS VAULTS.

NOTIFY THE REGIONAL TRAFFIC UNIT (920-492-5651), OR SECONDARY CONTACT AT (920-492-7719) A MINIMUM OF TWO (2) WEEKS PRIOR TO THE NEED TO STAKE THE FOLLOWING ITEMS: RAM CLOSURE GATE BASES AND RAMP CLOSURE GATE CONTROLLER CABINET BASES.

HAND DIG TRENCHES CROSSING EXISTING CONDUIT CONTAINING FIBER OPTIC CABLE.

VISUALLY VERIFY DEPTHS OF EXISTING CONDUITS CONTAINING FIBER OPTIC CABLE PRIOR TO CROSSING BY DIRECTIONAL BORE OR SPECIAL METHOD.

LEGEND

- JUNCTION BOX
- VIDEO SENSOR
- CCTV CAMERA
- CONTROL CABINET
- POLE MOUNTED CABINET
- COMMUNICATIONS PULL BOX 24X48
- 12" PULL BOX
- TYPE 5 OR CAMERA POLE
- ELECTRICAL PULL BOX 24X48
- COMMUNICATIONS VAULT
- MANHOLE
- MICROWAVE DETECTOR
- ITS CONDUIT
- ITS CONDUIT DIRECTIONAL BORE
- ITS CONDUIT ON STRUCTURE
- DYNAMIC MESSAGE SIGN
- ROAD WEATHER INFORMATION SYSTEM
- METER BREAKER PEDESTAL
- BREAKER DISCONNECT BOX
- BARRICADE RACK
- RAMP GATE
- SOLAR RAMP GATE CONTROLLER CABINET
- RADIO LINK (REMOTE DESTINATION)
- TEMPORARY WOOD POLE

STANDARD ABBREVIATIONS

CCTV	CLOSED CIRCUIT TELEVISION
RM	RAMP METER
DMS	DYNAMIC MESSAGE SIGN
SDS	SYSTEM DETECTOR STATION
S	OVERHEAD SIGNAL SUPPORT
CS	COUNT STATION
ATR	AUTOMATIC TRAFFIC RECORDER
AF(A)	ADVANCE FLASHER (ASSEMBLY)
CB	CONTROLLER CABINET
CP	CAMERA POLE
PF	POLE FOUNDATION
PB	PULL BOX
MH	MANHOLE
CV	COMMUNICATIONS VAULT
SB	SIGNAL BASE
AP	ANTENNA POLE
DS	DRAINAGE STRUCTURE (ON ITS PLANS ONLY)
TAR	TRAVELER ADVISORY RADIO
MD	MICROWAVE DETECTOR
DP	DETECTOR POLE
VDC	VIDEO DETECTION CAMERA
VDCS	VEHICLE DETECTION CLASSIFICATION SENSOR
FO	FIBER OPTIC
RWIS	ROAD WEATHER INFORMATION SYSTEM
WIM	WEIGH IN MOTION
CT	COUNT

CONTACTS

WIS. DEPT. OF TRANSPORTATION
NE REGION
MR. RANDY ASMAN
944 VANDERPERREN WAY
GREEN BAY, WI 54304
920-492-7719

WIS. DEPT. OF TRANSPORTATION
NE REGION
MR. SCOTT NELSON
944 VANDERPERREN WAY
GREEN BAY, WI 54304
920-492-5651

WIS. DEPT. OF TRANSPORTATION
STATE TRAFFIC OPERATIONS
MR. DON SCHELL
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MILWAUKEE, WI 53203
414-227-2148

WIS. DEPT. OF TRANSPORTATION
STATE TRAFFIC OPERATIONS
MR. DEAN BEEKMAN
433 W ST. PAUL AVENUE, SUITE 300
MILWAUKEE, WI 53203
414-227-2154

AECOM
MR. MATT LETOURNEAU
100 SOUTH WACKER DRIVE, SUITE 500
CHICAGO, IL 60606
312-577-6489

INTELLIGENT TRANSPORTATION SYSTEM PLANS PREPARED BY:

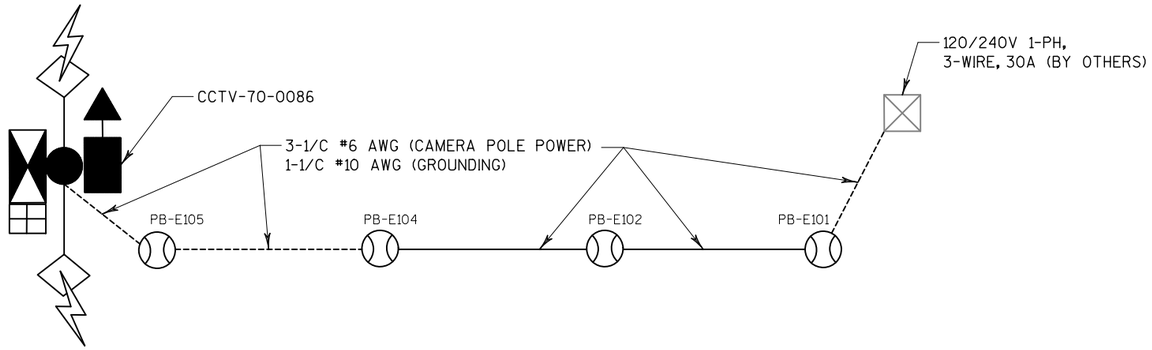
AECOM
1555 N Rivercenter Dr, Suite 214
Milwaukee, WI 53212
(414) 944-6080

(Date) (Signature)

PROJECT NO: 1517-75-72	HWY: USH 10	COUNTY: WINNEBAGO	ITS GENERAL NOTES	SHEET 143	E

MIDWAY ROAD (CTH AP)
(SEE SHEET 3)

N



NOTE: CAMERA, MICROWAVE DETECTOR, AND RADIO CABLES INSTALLED FROM EACH DEVICE ON THE POLE TO THE POLE-MOUNTED CABINET.

PROJECT NO: 1517-75-72	HWY: USH 10	COUNTY: WINNEBAGO/OUTGAMIE	ITS - WIRING DETAILS	SHEET 144	E

2

2

FUTURE ITS TO BE INSTALLED
SEE PROJECT ID 1517-75-73
CCTV-70-0086
RELOCATED FROM INTERIM CAMERA SITE:
ELECTRICAL SERVICE BREAKER DISCONNECT BOX
2-PLAQUES SEQUENCE IDENTIFICATION
CAMERA ASSEMBLY (STATE FURNISHED)
VIDEO ENCODER (STATE FURNISHED)
ETHERNET SWITCH (STATE FURNISHED)
RADIO LINK (TO RACINE ROAD)
RADIO LINK (TO APPLETON ROAD)
INSTALL:
BASE CAMERA POLE 50-FT
CAMERA POLE (STATE FURNISHED)

PB-C101
PB-E105
PB-E104
PB-E35

3-ELECTRICAL WIRE LIGHTING 6 AWG
1-ELECTRICAL WIRE LIGHTING 10 AWG
CONDUIT HDPE DIRECTIONAL BORE 1-DUCT 2-INCH

TO BE RELOCATED TO PERMANENT CAMERA SITE CCTV-70-0086:
ELECTRICAL SERVICE BREAKER DISCONNECT BOX
2-PLAQUES SEQUENCE IDENTIFICATION
CAMERA ASSEMBLY (STATE FURNISHED)
VIDEO ENCODER (STATE FURNISHED)
ETHERNET SWITCH (STATE FURNISHED)
REMOVE 80' WOOD POLE
RADIO LINK (TO RACINE ROAD)
RADIO LINK (TO APPLETON ROAD)

PB-C104
PB-C105

EXISTING ITS BY OTHERS
SEE PROJECT ID 1517-07-76

FUTURE ITS
SEE PROJECT ID 1517-75-73

3-ELECTRICAL WIRE LIGHTING 6 AWG
1-ELECTRICAL WIRE LIGHTING 10 AWG
CONDUIT HDPE 1-DUCT 2-INCH

FUTURE CONNECTION FOR
PROJECT ID 1517-75-73

PB-C106

R USH 10 WB/STH 441 SB
R USH 10 EB/STH 441 NB

PB-E102
PB-E101
PB-E36

3-ELECTRICAL WIRE LIGHTING 6 AWG
1-ELECTRICAL WIRE LIGHTING 10 AWG
CONDUIT HDPE DIRECTIONAL BORE 1-DUCT 2-INCH

3-ELECTRICAL WIRE LIGHTING 6 AWG
1-ELECTRICAL WIRE LIGHTING 10 AWG
CONDUIT HDPE 3-DUCT 2-INCH

CONNECT TO EXISTING ITS
SEE PROJECT ID 1517-07-76

FUTURE ITS TO BE INSTALLED
SEE PROJECT ID 1517-75-77

LILLY ST
RICHARD DRIVE
CANADIAN NATIONAL RAILROAD
MIDWAY ROAD (CTH AP)
USH 10 WB/STH 441 SB
USH 10 EB/STH 441 NB
CANADIAN NATIONAL
MH
SIGN
FLAG
FOO
GAS
MB
TEL
246EB
246MNE
244EB
244MNE
242WB
242EB
240WB
240EB
240MSE
238WB
238EB
238MSE
236WB
236EB
236MSE
234WB
234EB
234MSE
232WB
232EB
232MSE
230WB

PROJECT NO: 1517-75-72	HWY: USH 10	COUNTY: WINNEBAGO	ITS - USH 10/STH 441	SHEET 145	E

LIGHTING PLAN LEGEND

PROPOSED LIGHT POLE LOCATION; CONCRETE BASES TYPE 7 AS SHOWN ON THE PLANS

EXISTING LIGHT POLE BASE INSTALLED UNDER A PREVIOUS CONTRACT

PROPOSED CONDUIT RIGID NONMETALLIC

EXISTING CONDUIT

PROPOSED 24"X42" NON-CONDUCTIVE PULL BOX

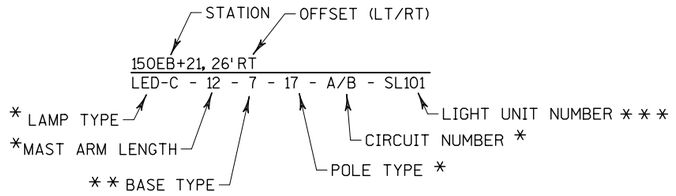
EXISTING 24"X42" LIGHTING PULL BOX (ELPBxx)

V, W
LJBXX

V = STATION, W= OFFSET
LJB= LIGHTING JUNCTION BOX EMBEDDED IN WALL OR PARAPET, XX= PULL BOX NUMBER

V, W
LPBXX

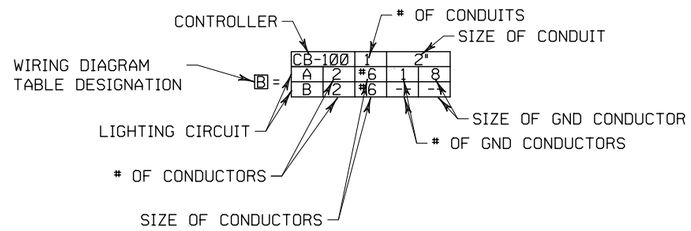
V = STATION, W= OFFSET
LPB= LIGHTING PULL BOX, XX= PULL BOX NUMBER



* THESE VALUES ARE NOT INCLUDED IN CALLOUT WHEN UNDERGROUND ONLY LIGHTING MATERIALS ARE PROPOSED

** STR - POLE BASE IS PART OF A STRUCTURE
M7 - MEDIAN TYPE 7 BASE
EX - EXISTING BASE INSTALLED UNDER A PREVIOUS CONTRACT

*** ESL - EXISTING STREET LIGHT INSTALLED UNDER A PREVIOUS CONTRACT



DIGGERS HOTLINE

Call 811 3 Work Days Before You Dig
or Toll Free (800) 242-8511
Hearing Impaired TDD (800) 542-2289
www.DiggersHotline.com

LIGHTING GENERAL NOTES

1. VERIFY ALL OF THE INFORMATION SHOWN ON THE CONTRACT DRAWINGS WHICH WOULD AFFECT THE WORK UNDER THIS CONTRACT.
2. ALL NEW CONDUITS, CABLE DUCTS, DIRECT BURIAL CABLES, AND ACCESSORIES ARE INDICATED DIAGRAMMATICALLY ON THE DRAWINGS. THE ACTUAL LOCATIONS IN THE FIELD SHALL MEET WITH APPROVAL OF THE ENGINEER.
3. PERFORM THE ELECTRICAL WORK IN ACCORDANCE WITH WISDOT LATEST STANDARDS, THE SPECIAL PROVISIONS AND APPLICABLE SECTIONS OF THE WISDOT STANDARD SPECIFICATIONS (LATEST EDITION).
4. INSTALL ALL FOUNDATIONS IN ORDER FOR THE PROPOSED AND FUTURE LUMINAIRES TO BE ORIENTED WITH THE OPTICS PERPENDICULAR TO THE ROADWAY UNLESS OTHERWISE INDICATED OR DIRECTED BY THE ENGINEER.
5. INSTALL CONDUITS AT A MINIMUM 24" DEPTH BELOW GRADE AND POSITIONED IN THE FIELD TO AVOID CONFLICT WITH ROADWAY UNDERDRAINS AND OTHER EXISTING AND PROPOSED UTILITIES. INCREASE DEPTH OF DUCT AND CONDUIT AS REQUIRED AT NO ADDITIONAL COST. COORDINATE RACEWAY DEPTH WITH THE ELECTRICAL DETAILS AND THE ENGINEER.
6. ALL CONDUIT USED FOR BORED CABLE RUNS UNDER PAVEMENTS SHALL BE POLYVINYL CHLORIDE (PVC), SCHEDULE 40 IN CONFORMANCE WITH SECTION 652.2.3 OF THE WISDOT SPECIFICATIONS.
7. CAP CONDUIT ON BOTH ENDS UNTIL CABLING IS PLACED. FURNISH AND INSTALL A MANUFACTURER APPROVED CAP FOR ALL CONDUITS. DUCT TAPE AND OTHER TAPE IS NOT ACCEPTABLE MEANS OF CONDUIT CAP. EXTEND CONDUIT ONE FOOT BEYOND THE BACK OF CURB EDGE OR TWO FEET BEYOND SHOULDER IF NO CURB.
8. FURNISH AND INSTALL CABLE PULL STRINGS OR WIRES IN ALL CONDUITS. PULL WIRES MUST BE ACCESSIBLE AND ANCHORED AT EACH CONDUIT END FOR EASY FUTURE ACCESS.
9. PITCH CONDUIT TOWARDS PULL BOXES FOR DRAINAGE. IF THE CONTRACTOR IS UNABLE TO PROVIDE A PITCH TO PULL BOXES FOR PVC CONDUIT, DRILL ONE 1/4-INCH-DIAMETER DRAIN HOLE IN THE CONDUIT AT EACH LOW POINT AND PLACE SUMPS UNDER THE DRAIN HOLES.
10. ALL POLES ON BREAKAWAY BASES SHALL BE PLACED A MINIMUM OF 12-FEET FROM THE EDGE OF THE OUTSIDE TRAVEL LANE. ALL LIGHTS PLACED BEHIND GUARDRAIL SHALL BE PLACED A MINIMUM OF 4-FEET BEHIND THE FACE OF GUARDRAIL.
11. LIGHTING SYMBOLS ARE ENLARGED FOR CLARITY, USE CENTER OF SYMBOL TO LOCATE EQUIPMENT IN THE FIELD.

LIGHTING PLANS PREPARED BY:

AECOM
1555 N RiverCenter Dr, Suite 214
Milwaukee, WI 53212
(414) 944-6080

WISCONSIN
MOHAMMED A ELSHOLI
E-37874-6
ORLAND HILLS
ILLINOIS
PROFESSIONAL ENGINEER

2/6/2017
(Date)

(Signature)

PROJECT NO: 1517-75-72	HWY: USH 10	COUNTY: WINNEBAGO	LIGHTING PLAN - TITLE SHEET	SHEET 146	E

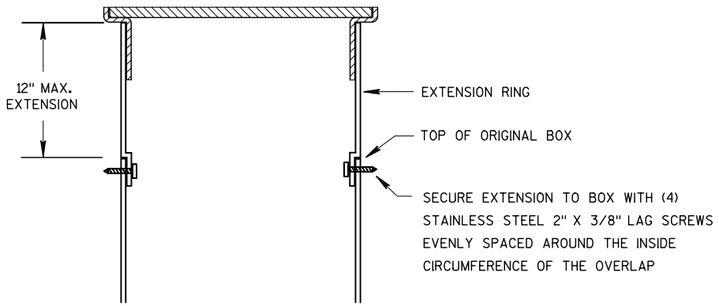
2

TABLE OF NOMINAL DIMENSIONS AND WEIGHTS

NON-CONDUCTIVE PULL BOX		DIMENSION IN INCHES	
BOX DIAMETER ** (INSIDE)	A	24	24
BOX DIAMETER ** (OUTSIDE)	B	25	25
BOX LENGTH	C	36	42
COVER	D	25 1/2	25 1/2
FRAME	E	27	27
FRAME	F	25 3/4	25 3/4
FRAME	G	22 1/2	22 1/2
WEIGHT IN POUNDS *			
COVER		50	50

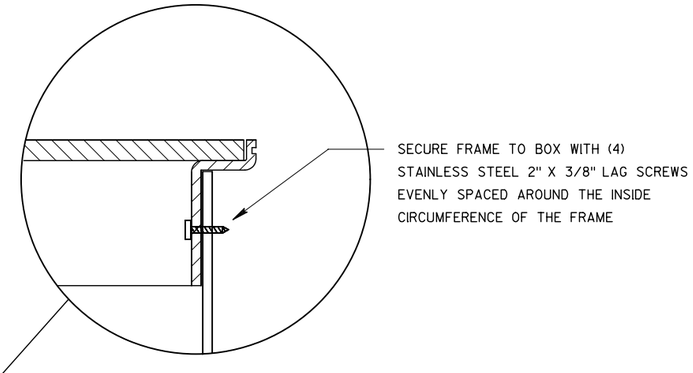
* THE ACTUAL WEIGHT OF THE COVER MAY VARY NOT TO EXCEED 100 LBS.

** DIAMETER VARIES FROM TOP TO BOTTOM WITH THE DIAMETER LARGER AT THE BOTTOM TO PREVENT FROST HEAVE

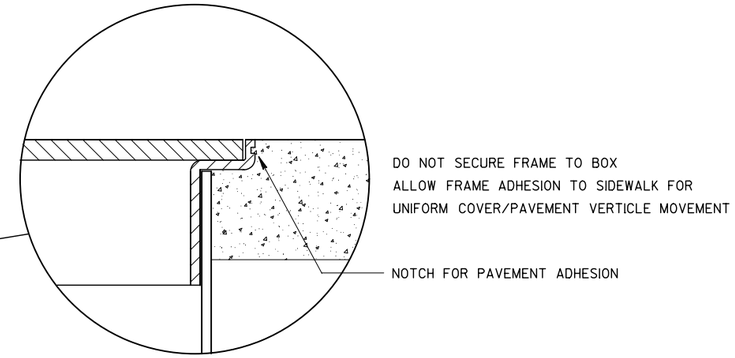


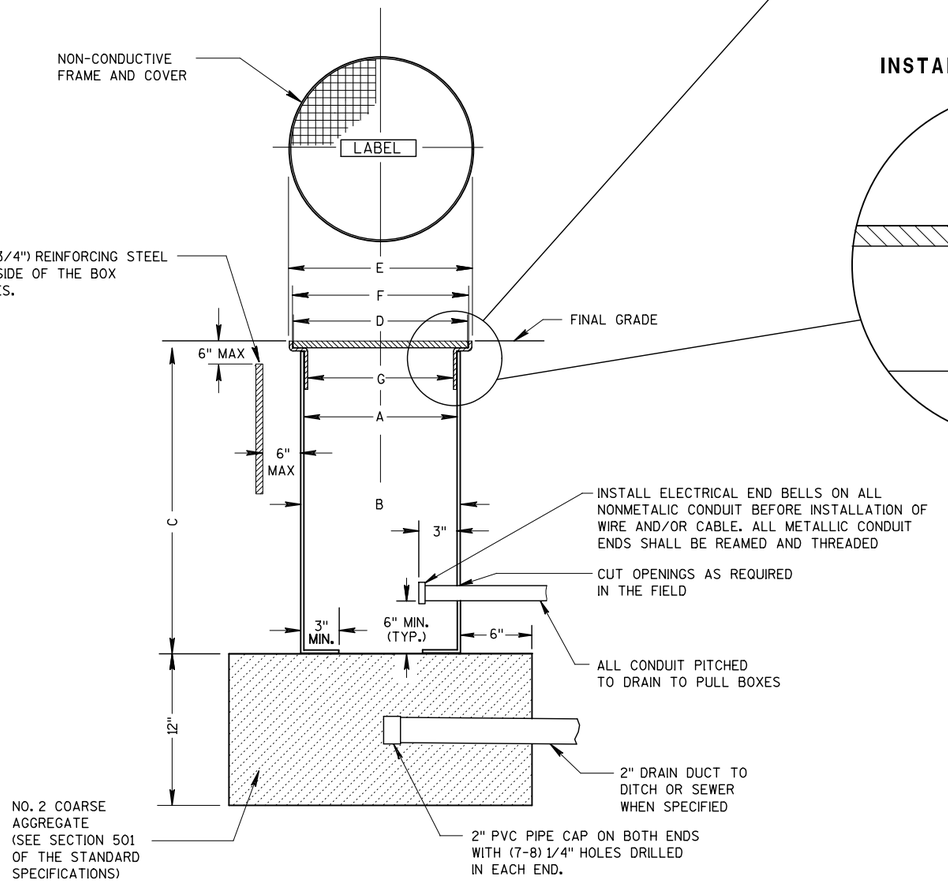
BOX EXTENSION

INSTALLED IN SOD OR CRUSHED AGGREGATE



INSTALLED IN SIDEWALK





NON-CONDUCTIVE PULL BOX

GENERAL NOTES

DETAILS OF CONSTRUCTION, MATERIALS AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE CONTRACT.

ALL BOXES, FRAMES AND COVERS SHALL BE SUITABLE FOR TIER 15 LOADING AS SPECIFIED IN ANSI/SCTE 77.

PROVIDE AN OPENING FOR TOOL ASSISTED COVER REMOVAL NOT LARGE ENOUGH TO PERMIT PASSAGE OF A SPHERE MORE THAN 1/2" DIAMETER

ENSURE COVER SURFACE IS SKID RESISTANT WITH A COEFFICIENT OF FRICTION OF AT LEAST 0.5 AND VERTICAL SURFACE DICONTINUITIES LESS THAN 1/4".

BOXES AND EXTENSIONS ARE TRIMMABLE FOR CUSTOM LENGTHS. TRIMMED PIECES SHALL MAINTAIN A UNIFORM LENGTH.

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.

ALL METALLIC CONDUIT IN WHICH WIRE AND/OR CABLE IS TO BE INSTALLED, SHALL BE BUSHED BEFORE INSTALLATION OF THE WIRE AND/OR CABLE.

ENTIRE BOX MUST BE CONSTRUCTED OF NON-CONDUCTIVE MATERIALS WITH THE EXCEPTION OF STAINLESS STEEL FASTENERS.

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

LABEL ON COVER SHALL READ "ELECTRIC" FOR SIGNAL OR LIGHTING SYSTEMS. "WISDOT COMMUNICATIONS" FOR COMMUNICATIONS SYSTEMS,

2

120/240 VOLT, 1-PHASE SERVICE PEDESTAL- APPLETON ROAD - EXISTING

LOCATION: STA: 12ASBS+78, 45'RT

L70-2012 ROUNDABOUT LIGHTING CABINET (CB-100)

Electrical Panel: CB-100

Rating: 100A
Voltage: 120/240 Volts, _1_ Phase __3__ Wire
Feeder Conductors: __2____AWG
Main Brkr: 100 A - 2P (IN METER PEDESTAL)

EXISTING DOT CABINET
LIGHTING LOAD

INSTALLED UNDER
CONTRACT: 1517-75-78
APPLETON ROAD ROUNDABOUTS

Ckt	Brkr Amps	Brkr Poles 1 or 2	Description	VA		A	B	VA		Description	Brkr Poles 1 or 2	Brkr Amps	Ckt
1	30	2	CIRCUIT A (EXISTING)	581		X		581		CIRCUIT B (EXISTING)	2	30	2
3					581		X		581				4
5	30	2	CIRCUIT C (EXISTING)	675		X		675		CIRCUIT D (EXISTING)	2	30	6
7					675		X		675				8
9	30	2	CIRCUIT E (EXISTING+2	546		X		455		CIRCUIT F (EXISTING+3	2	30	10
11			NEW)		546		X		455	NEW)			12
13	30	2	SPARE			X				SPARE	2	30	14
15							X						16
17	30	2	SPARE			X				SPARE	2	30	18
19							X						20
21	30	2	SPARE			X				SPARE	2	30	22
23							X						24
25	20	1	CONTROL POWER	250		X				SPARE	1	20	26
27	20	1	CONTROL POWER		250		X			SPARE	1	20	28
29	20	1	SPARE			X				SPARE	1	20	30
			TOTALS	2052	2052			1711	1711	TOTALS			

BUS A: 3763
BUS B: 3763

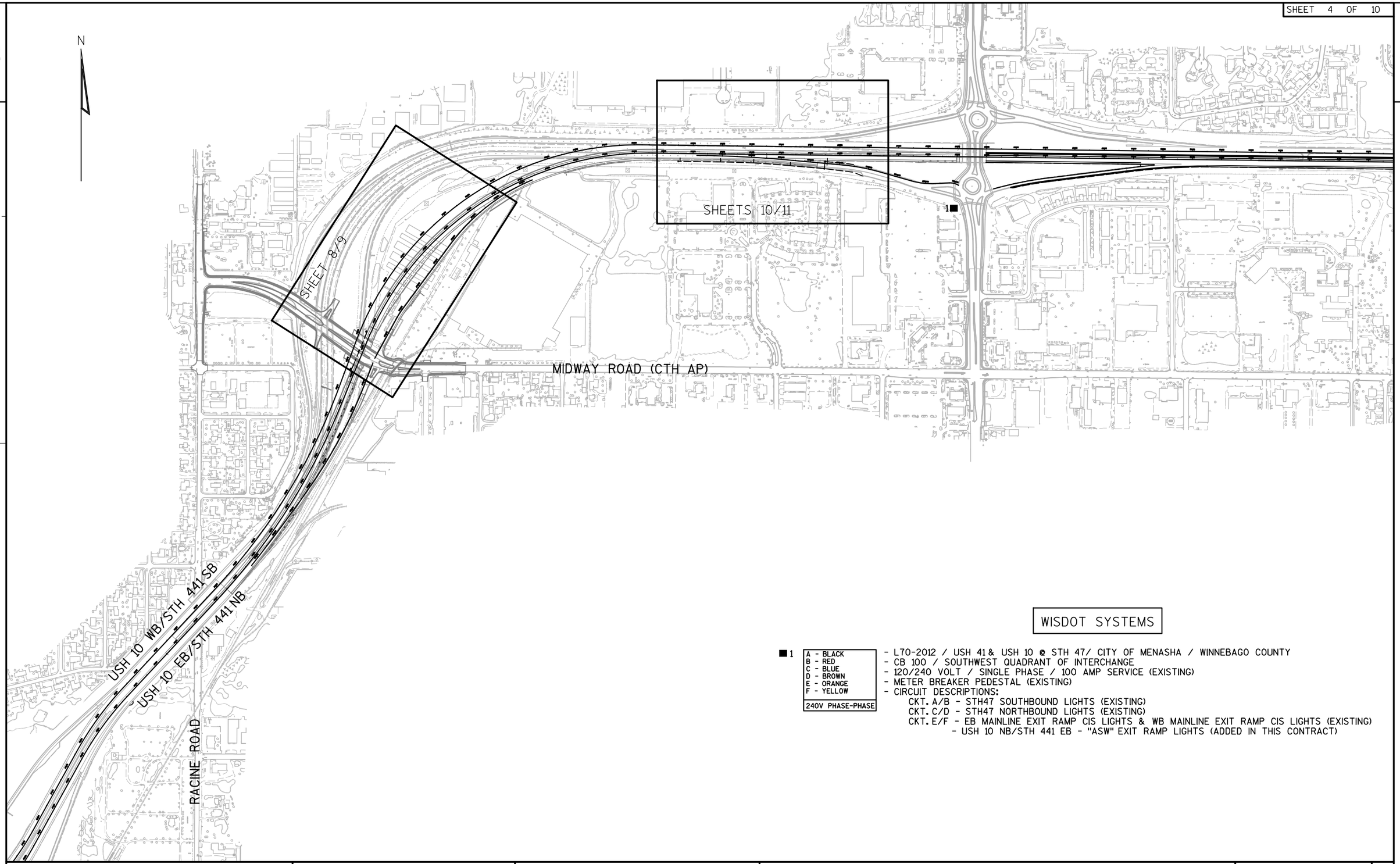
LOAD: 7526

7.53 KVA DEMAND
31.4 LINE AMPS

NOTES:

1. LOADS SHOWN ARE FOR INFORMATION ONLY AND WILL VARY BY FIXTURE AND MANUFACTURER.
2. ONLY STREET LIGHTING LOAD IS SHOWN ON THE PANELBOARD SCHEDULE. OTHER MISCELLANEOUS LOADS SUCH AS TRANSFORMER, LIGHT FIXTURE, SWITCHES, ETC.. MIGHT ALSO BE FED FROM THE PANELBOARD.

FILE NAME : \\S1102K306\projects\Transportation\US 10 WIS 441\CADD\sheets\15177572\023507_lp.dgn PLOT DATE : 2/6/2017 PLOT BY : nick.becker PLOT NAME : PLOT SCALE : 200.0000 ' / in.
WISDOT/CADDS SHEET 42



WISDOT SYSTEMS

■1

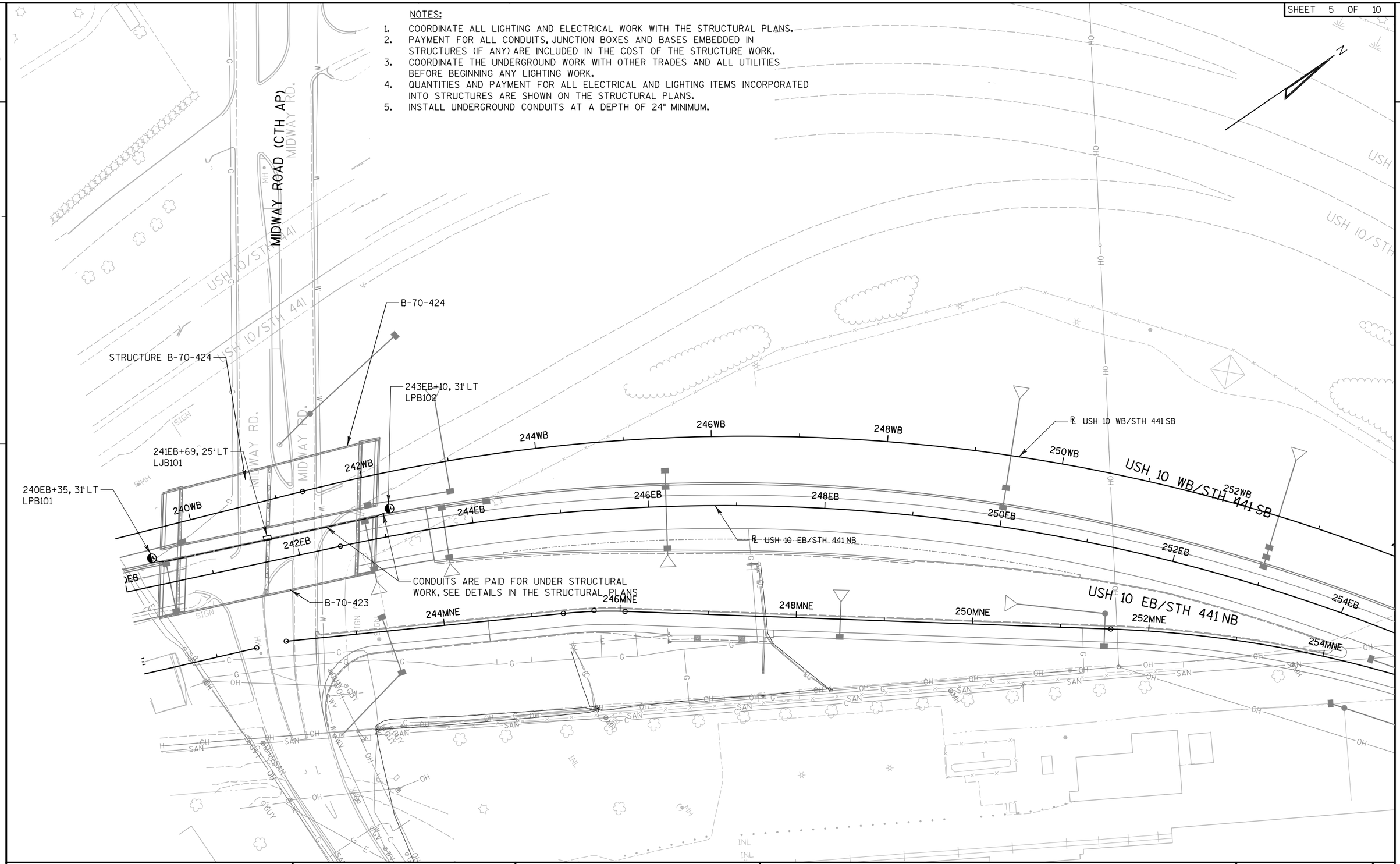
A - BLACK
B - RED
C - BLUE
D - BROWN
E - ORANGE
F - YELLOW
240V PHASE-PHASE

- L70-2012 / USH 41 & USH 10 @ STH 47/ CITY OF MENASHA / WINNEBAGO COUNTY
- CB 100 / SOUTHWEST QUADRANT OF INTERCHANGE
- 120/240 VOLT / SINGLE PHASE / 100 AMP SERVICE (EXISTING)
- METER BREAKER PEDESTAL (EXISTING)
- CIRCUIT DESCRIPTIONS:
  - CKT. A/B - STH47 SOUTHBOUND LIGHTS (EXISTING)
  - CKT. C/D - STH47 NORTHBOUND LIGHTS (EXISTING)
  - CKT. E/F - EB MAINLINE EXIT RAMP CIS LIGHTS & WB MAINLINE EXIT RAMP CIS LIGHTS (EXISTING)
  - USH 10 NB/STH 441 EB - "ASW" EXIT RAMP LIGHTS (ADDED IN THIS CONTRACT)

PROJECT NO: 1517-75-72	HWY: USH 10	COUNTY: WINNEBAGO	LIGHTING PLAN OVERVIEW	SHEET 149	E

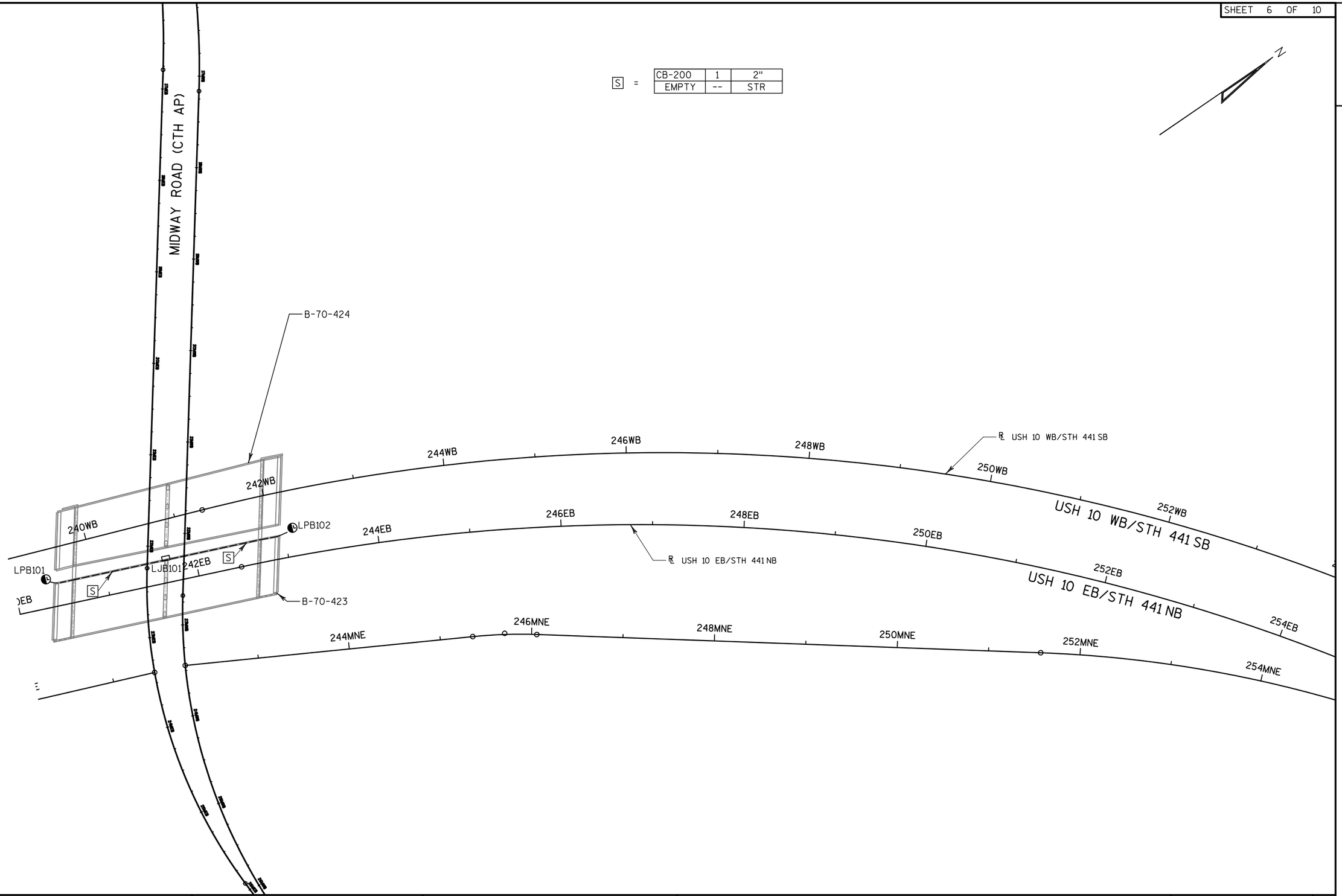
NOTES:

1. COORDINATE ALL LIGHTING AND ELECTRICAL WORK WITH THE STRUCTURAL PLANS.
2. PAYMENT FOR ALL CONDUITS, JUNCTION BOXES AND BASES EMBEDDED IN STRUCTURES (IF ANY) ARE INCLUDED IN THE COST OF THE STRUCTURE WORK.
3. COORDINATE THE UNDERGROUND WORK WITH OTHER TRADES AND ALL UTILITIES BEFORE BEGINNING ANY LIGHTING WORK.
4. QUANTITIES AND PAYMENT FOR ALL ELECTRICAL AND LIGHTING ITEMS INCORPORATED INTO STRUCTURES ARE SHOWN ON THE STRUCTURAL PLANS.
5. INSTALL UNDERGROUND CONDUITS AT A DEPTH OF 24" MINIMUM.



PROJECT NO: 1517-75-72	HWY: USH 10	COUNTY: WINNEBAGO	LIGHTING PLAN - B-70-423	SHEET 150	E

[S] =	CB-200	1	2"
	EMPTY	--	STR



PROJECT NO: 1517-75-72	HWY: USH 10	COUNTY: WINNEBAGO	LIGHTING PLAN - B-70-423 - WIRING SCHEMATIC	SHEET 151	E

N

THE LOCATION OF THE PROPOSED POLE WAS CHANGED FROM SOUTH OF THE RAMP TO THIS LOCATION IN ORDER TO AVOID CONFLICT WITH ATC HIGH VOLTAGE OVERHEAD POWER LINES

EXISTING CONDUIT CONTAINS EXISTING CIRCUIT E CONDUCTORS THAT WERE INSTALLED UNDER A PREVIOUS CONTRACT, TO REMAIN

USH 10 WB/STH 441 SB

℄ USH 10 WB/STH 441 SB

268WB 270WB 272WB 274WB 276WB 278WB 280WB 282WB

268EB 270EB 272EB 274EB 276EB 278EB 280EB 282EB

USH 10 EB/STH 441 NB

℄ USH 10 EB/STH 441 NB

1272ASW 1274ASW 1276ASW 1278ASW 1280ASW 1282ASW

269EB+06, 54' RT
STUB-OUT AND CAP

269EB+12, 54' RT
LED-C - 12 - 7 - 17 - F - SL316

1271ASW+88, 41' RT
LED-C - 12 - 7 - 17 - E - SL315

1274ASW+15, 38' RT
LED-C - 12 - 7 - 17 - F - SL314

1276ASW+66, 38' RT
LED-C - 12 - 7 - 17 - E - SL313

1279ASW+15, 36' RT
LED-C - 12 - 7 - 17 - F/E - SL312

1279ASW+00, 12' LT
LPB301

1279ASW+00, 36' RT
LPB302

1281ASW+00, 13' LT
ELPB302

1281ASW+00, 39' RT
ELPB301

1281ASW+72, 55' RT
EX - E - ESL303

PROJECT ID 1517-75-78
(BY OTHERS)

1283ASW+25, 56' RT
EX - F - ESL302

NOTES:

1. COORDINATE ALL LIGHTING AND ELECTRICAL WORK WITH THE STRUCTURAL PLANS. PAYMENT FOR ALL CONDUITS AND BASES EMBEDDED IN STRUCTURES ARE INCLUDED IN THE COST OF THE STRUCTURE.
2. COORDINATE THE UNDERGROUND WORK WITH OTHER TRADES AND ALL UTILITIES BEFORE BEGINNING ANY LIGHTING WORK.
3. QUANTITIES AND PAYMENT FOR ALL ELECTRICAL AND LIGHTING ITEMS INCORPORATED INTO STRUCTURES ARE SHOWN ON THE STRUCTURAL PLANS.
4. INSTALL UNDERGROUND CONDUITS AT A DEPTH OF 24" MINIMUM.

PROJECT NO: 1517-75-72	HWY: USH 10	COUNTY: WINNEBAGO	LIGHTING PLAN - USH 10 EB/STH 441 NB TO APPLETON ROAD	SHEET 152	E

2

2

N

A =	CB-100		1	2"		
	E	2	#8	1	#10	
	F	2	#8	--	--	

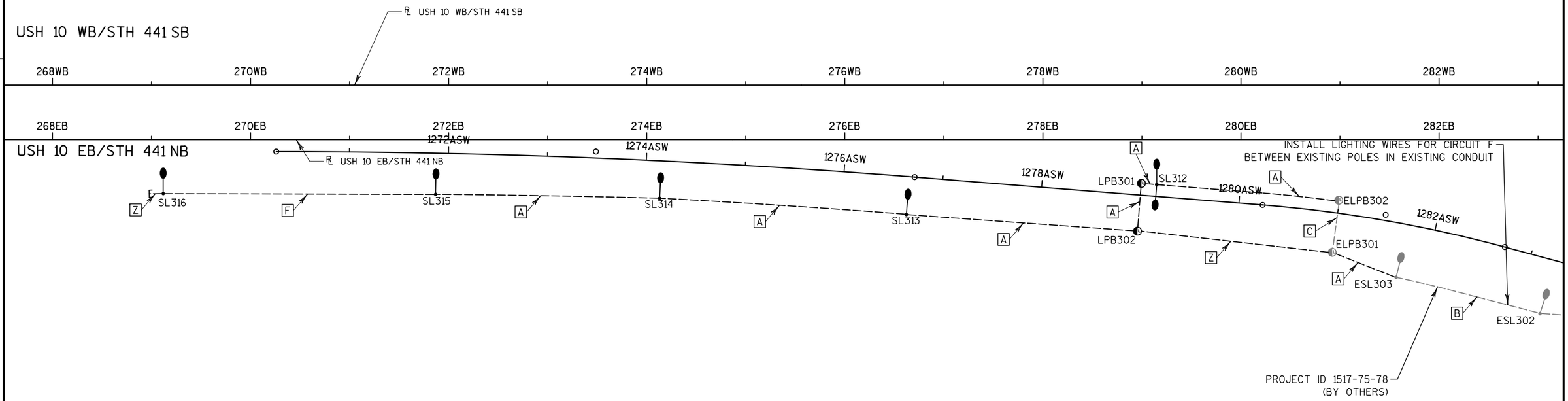
B =	CB-100		1	EXISTING		
	E	2	EX	1	EX	*
	F	2	#8	--	--	

C =	CB-100		1	EXISTING		
	E	2	#8	1	#10	
	F	2	#8	--	--	

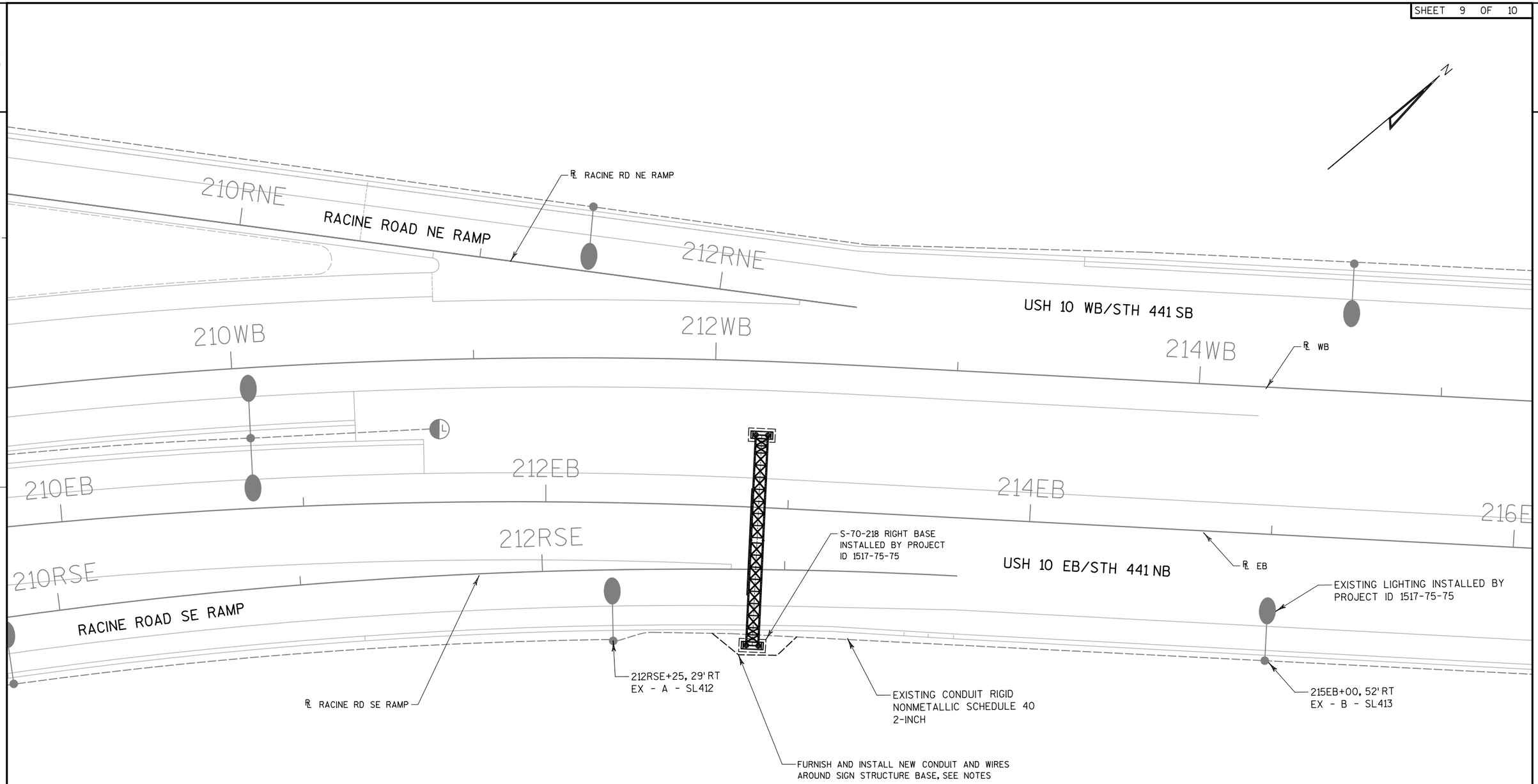
F =	CB-100		1	2"		
	F	2	#8	1	#10	

Z =	CB-100	1	2"		
	EMPTY	--	--	--	

* EXISTING CONDUIT CONTAINS EXISTING CIRCUIT E CONDUCTORS THAT WERE INSTALLED UNDER A PREVIOUS CONTRAST



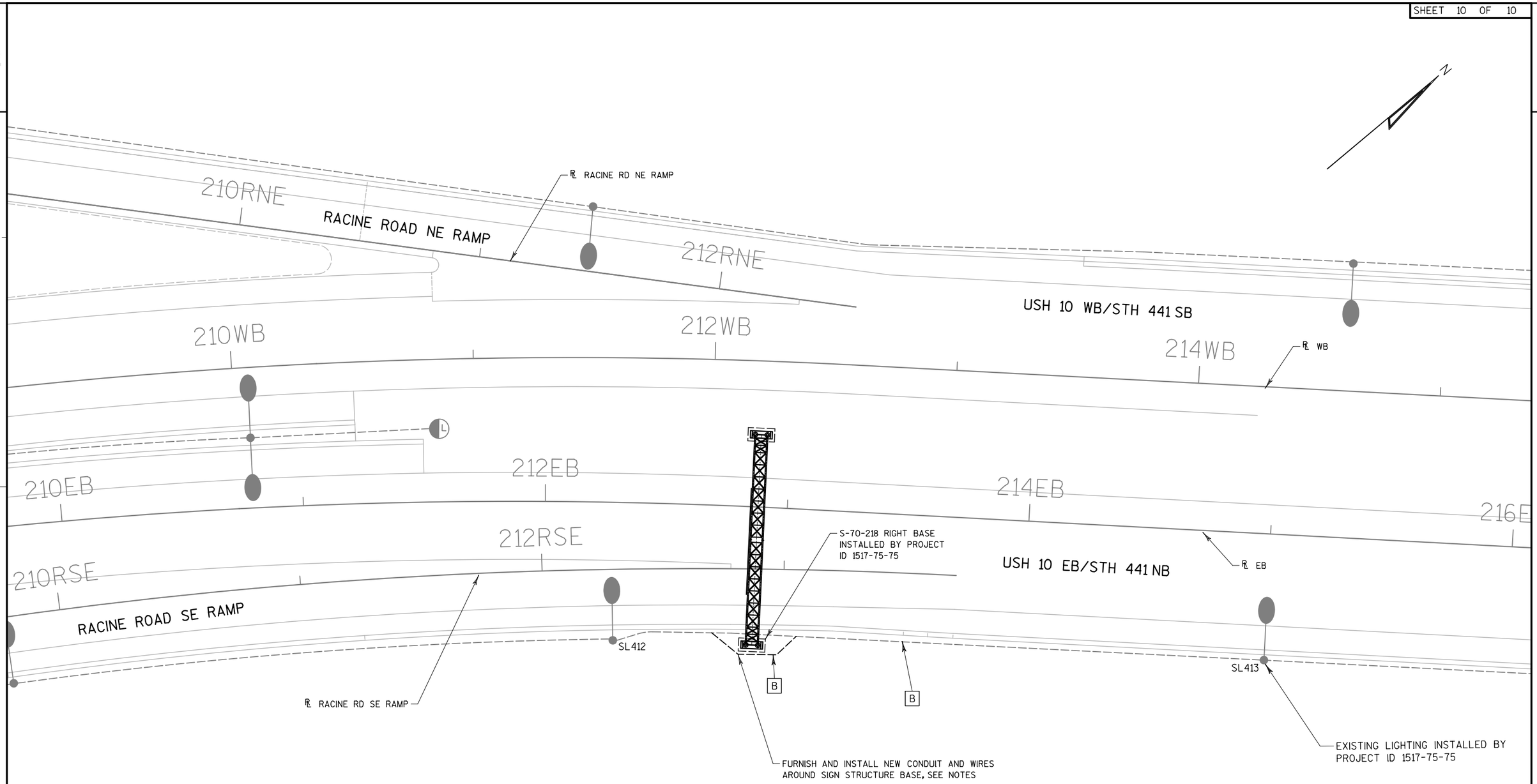
PROJECT NO: 1517-75-72	HWY: USH 10	COUNTY: WINNEBAGO	LIGHTING PLAN - USH 10 EB/STH 441 NB TO APPLETON ROAD-WIRING	SHEET 153 E



NOTES:

1. COORDINATE ALL LIGHTING AND ELECTRICAL WORK WITH THE STRUCTURAL AND SIGNING PLANS.
2. REMOVE ALL CABLES AND WIRES FROM EXISTING CONDUIT INSTALLED BETWEEN POLES SL412 AND SL413. CUT AND REMOVE SECTION OF EXISTING CONDUIT AND REPLACE WITH NEW CONDUITS AND ROUTE AROUND SIGN BASE AS SHOWN.
3. INSTALL NEW LIGHTING WIRES IN NEW AND EXISTING CONDUITS BETWEEN POLES SL412 AND SL413 AS SHOWN ON WIRING SHEET.
4. UNDERGROUND SPLICING OF WIRES IS NOT ALLOWED.

PROJECT NO: 1517-75-72	HWY: USH 10	COUNTY: WINNEBAGO	LIGHTING PLAN	SHEET 154	E



B =

CB-401		1	2" (PARTIAL)	
A	2	#6	1	8
B	2	#6	--	--

480V

PROJECT NO: 1517-75-72	HWY: USH 10	COUNTY: WINNEBAGO	LIGHTING PLAN - WIRING SCHEMATIC	SHEET 155	E

2

2

N

208+00.00 MATCH LINE

202EB 203EB 204EB 205EB 206EB 207EB 208

E

205EB+67, 65.01' RT
MATCH EXISTING

206EB+83, 28.00' RT
MATCH EXISTING

15'

205EB+69, 79.85' RT
MATCH EXISTING

207EB+34, 48.00' RT

2

6

LEGEND

1	PAVEMENT MARKING EPOXY 4-INCH (YELLOW)
2	PAVEMENT MARKING EPOXY 4-INCH (WHITE)
3	PAVEMENT MARKING EPOXY 4-INCH (DASHED WHITE)(12.5 FT LINE 37.5 FT SKIP)
5	PAVEMENT MARKING EPOXY 8-INCH (DOT PATTERN WHITE)(3 FT LINE 9 FT SKIP)
6	PAVEMENT MARKING EPOXY 8-INCH (WHITE)
E	EXISTING PAVEMENT

PROJECT NO: 1517-75-72	HWY: STH 441/USH 10	COUNTY: WINNEBAGO	PAVEMENT MARKING	SHEET 156	E

2

211EB+55, -103.92' LT
MATCH EXISTING

211EB+69, -116.92' LT
MATCH EXISTING

213EB+24, -84.67' LT

213EB+24, -71.67' LT

213EB+24, -60.67' LT
MATCH EXISTING

212EB+17, 6.00' RT
MATCH EXISTING

213EB+24, -49.67' LT

212EB+17, 17.00' RT
MATCH EXISTING

209EB 210EB 211EB 212EB 213EB

11'
11'
13'

214+00.00 MATCH LINE

208+00.00 MATCH LINE

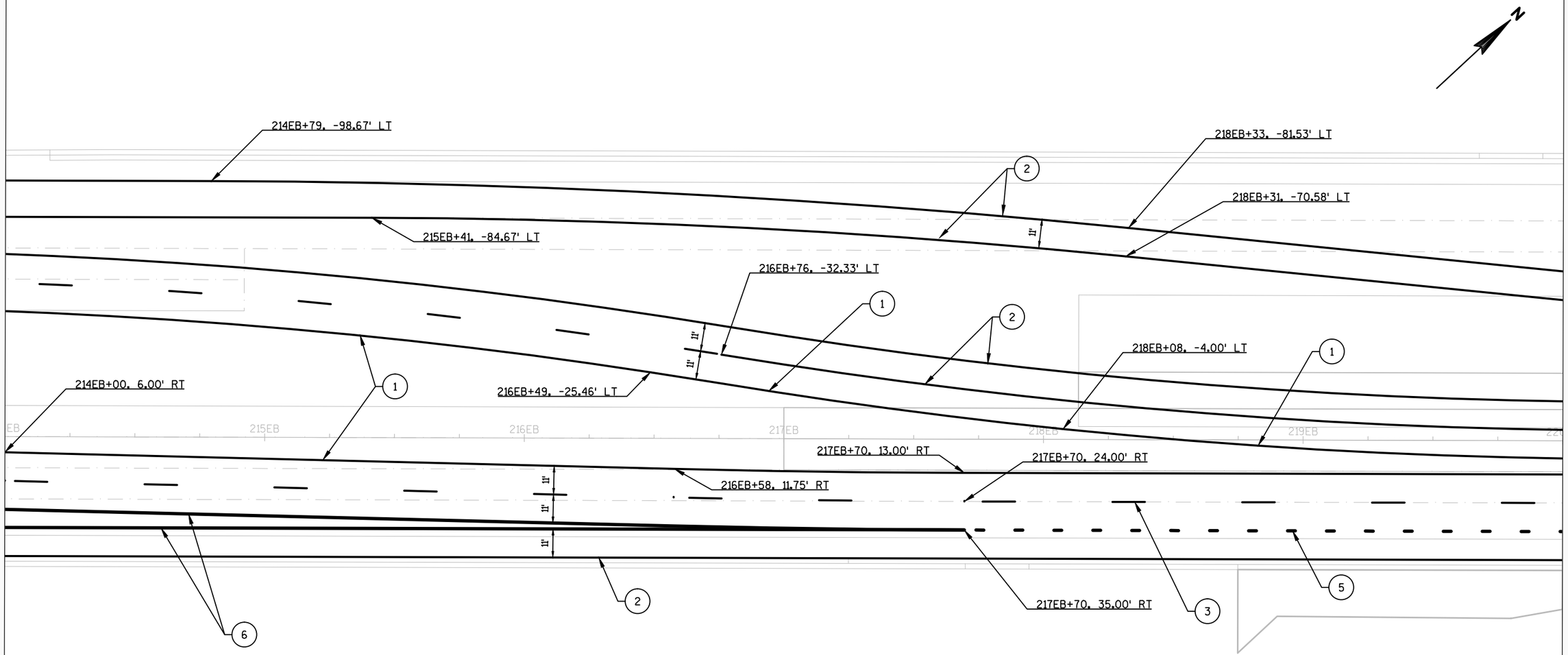
LEGEND

1	PAVEMENT MARKING EPOXY 4-INCH (YELLOW)
2	PAVEMENT MARKING EPOXY 4-INCH (WHITE)
3	PAVEMENT MARKING EPOXY 4-INCH (DASHED WHITE)(12.5 FT LINE 37.5 FT SKIP)
5	PAVEMENT MARKING EPOXY 8-INCH (DOT PATTERN WHITE)(3 FT LINE 9 FT SKIP)
6	PAVEMENT MARKING EPOXY 8-INCH (WHITE)
E	EXISTING PAVEMENT

PROJECT NO: 1517-75-72	HWY: STH 441/USH 10	COUNTY: WINNEBAGO	PAVEMENT MARKING	SHEET 157	E

FILE NAME : S:\PDS\C3D\WIS441\15177570_72_77_85\SHEETSPLAN\1517-75-72\024500-PM\NE-15177572-024501-PM.DWG
LAYOUT NAME - 024509-PM
PLOT DATE : 2/10/2017 8:50 AM PLOT BY : MARTENS, JOHN M PLOT NAME : PLOT SCALE : 1 IN:40 FT
WISDOT/CADDS SHEET 42

2



220+00.00 MATCH LINE

214+00.00 MATCH LINE

LEGEND

1. PAVEMENT MARKING EPOXY 4-INCH (YELLOW)
2. PAVEMENT MARKING EPOXY 4-INCH (WHITE)
3. PAVEMENT MARKING EPOXY 4-INCH (DASHED WHITE)(12.5 FT LINE 37.5 FT SKIP)
5. PAVEMENT MARKING EPOXY 8-INCH (DOT PATTERN WHITE)(3 FT LINE 9 FT SKIP)
6. PAVEMENT MARKING EPOXY 8-INCH (WHITE)

PROJECT NO:1517-75-72	HWY: STH 441/USH 10	COUNTY: WINNEBAGO	PAVEMENT MARKING	SHEET 158	E

FILE NAME : S:\PDS\C3D\WIS441\15177570_72_77_85\SHEETSPLAN\1517-75-72\024500-PM\NE-15177572-024501-PM.DWG
LAYOUT NAME - 024510-PM
PLOT DATE : 2/10/2017 8:50 AM PLOT BY : MARTENS, JOHN M PLOT NAME : PLOT SCALE : 1 IN:40 FT
WISDOT/CADDS SHEET 42

2

2

226+00.00 MATCH LINE

220+00.00 MATCH LINE

221EB+97. -34.99' LT

220EB+34. -4.00' LT

221EB+98. -17.15' LT

223EB+31. -20.06' LT

224EB+05. -21.11' LT

225EB+60. 28.00' RT

222EB+99. 41.54' RT

11'

11'

11'

221EB

222EB

223EB

224EB

225EB

LEGEND

1. PAVEMENT MARKING EPOXY 4-INCH (YELLOW)
2. PAVEMENT MARKING EPOXY 4-INCH (WHITE)
3. PAVEMENT MARKING EPOXY 4-INCH (DASHED WHITE)(12.5 FT LINE 37.5 FT SKIP)
5. PAVEMENT MARKING EPOXY 8-INCH (DOT PATTERN WHITE)(3 FT LINE 9 FT SKIP)
6. PAVEMENT MARKING EPOXY 8-INCH (WHITE)

PROJECT NO:1517-75-72	HWY: STH 441/USH 10	COUNTY: WINNEBAGO	PAVEMENT MARKING	SHEET 159	E

FILE NAME : S:\PDS\C3D\WIS441\15177570_72_77_85\SHEETSPLAN\1517-75-72\024500-PM\NE-15177572-024501-PM.DWG
LAYOUT NAME - 024511-PM

PLOT DATE : 2/10/2017 8:50 AM PLOT BY : MARTENS, JOHN M PLOT NAME : PLOT SCALE : 1 IN:40 FT

WISDOT/CADDS SHEET 42

2

2

232+00.00 MATCH LINE

226+00.00 MATCH LINE

N

CC

227EB

228EB

229EB

230EB

231EB

11'

11'

11'

2

1

3

2

LEGEND

1 PAVEMENT MARKING EPOXY 4-INCH (YELLOW)

2 PAVEMENT MARKING EPOXY 4-INCH (WHITE)

3 PAVEMENT MARKING EPOXY 4-INCH (DASHED WHITE)(12.5 FT LINE 37.5 FT SKIP)

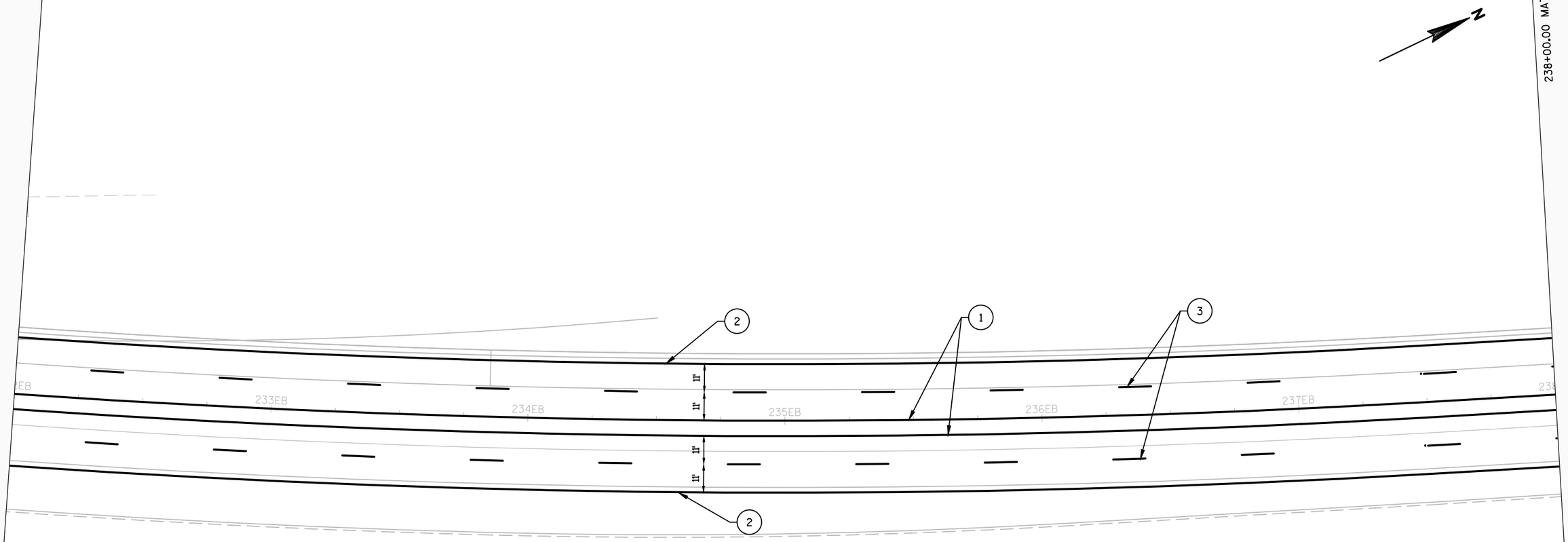
5 PAVEMENT MARKING EPOXY 8-INCH (DOT PATTERN WHITE)(3 FT LINE 9 FT SKIP)

6 PAVEMENT MARKING EPOXY 8-INCH (WHITE)

PROJECT NO: 1517-75-72	HWY: STH 441/USH 10	COUNTY: WINNEBAGO	PAVEMENT MARKING	SHEET 160	E

2

238+00.00 MATCH LINE



232+00.00 MATCH LINE

LEGEND

1	PAVEMENT MARKING EPOXY 4-INCH (YELLOW)
2	PAVEMENT MARKING EPOXY 4-INCH (WHITE)
3	PAVEMENT MARKING EPOXY 4-INCH (DASHED WHITE)(12.5 FT LINE 37.5 FT SKIP)
5	PAVEMENT MARKING EPOXY 8-INCH (DOT PATTERN WHITE)(3 FT LINE 9 FT SKIP)
6	PAVEMENT MARKING EPOXY 8-INCH (WHITE)

PROJECT NO: 1517-75-72	HWY: STH 441/USH 10	COUNTY: WINNEBAGO	PAVEMENT MARKING	SHEET 161	E

FILE NAME : S:\PDS\C3D\WIS441\15177570_72_77_85\SHEETSPLAN\1517-75-72\024500-PM\NE-15177572-024501-PM.DWG
LAYOUT NAME - 024513-PM
PLOT DATE : 2/10/2017 8:50 AM PLOT BY : MARTENS, JOHN M PLOT NAME : PLOT SCALE : 1 IN:40 FT
WISDOT/CADDS SHEET 42

2

2

PROPOSED 30 FT UTILITY CORRIDOR
STA 238EB+50

N

244+00.00 MATCH LINE

238+00.00 MATCH LINE

239EB

240EB

241EB

242EB

243EB

11'

11'

11'

11'

15'

242EB+04, 96.83' RT

242EB+61, 118.25' RT

241EB+88, 186.67' RT

243+00MNE

244+00MNE

LEGEND

1. PAVEMENT MARKING EPOXY 4-INCH (YELLOW)
2. PAVEMENT MARKING EPOXY 4-INCH (WHITE)
3. PAVEMENT MARKING EPOXY 4-INCH (DASHED WHITE)(12.5 FT LINE 37.5 FT SKIP)
5. PAVEMENT MARKING EPOXY 8-INCH (DOT PATTERN WHITE)(3 FT LINE 9 FT SKIP)
6. PAVEMENT MARKING EPOXY 8-INCH (WHITE)

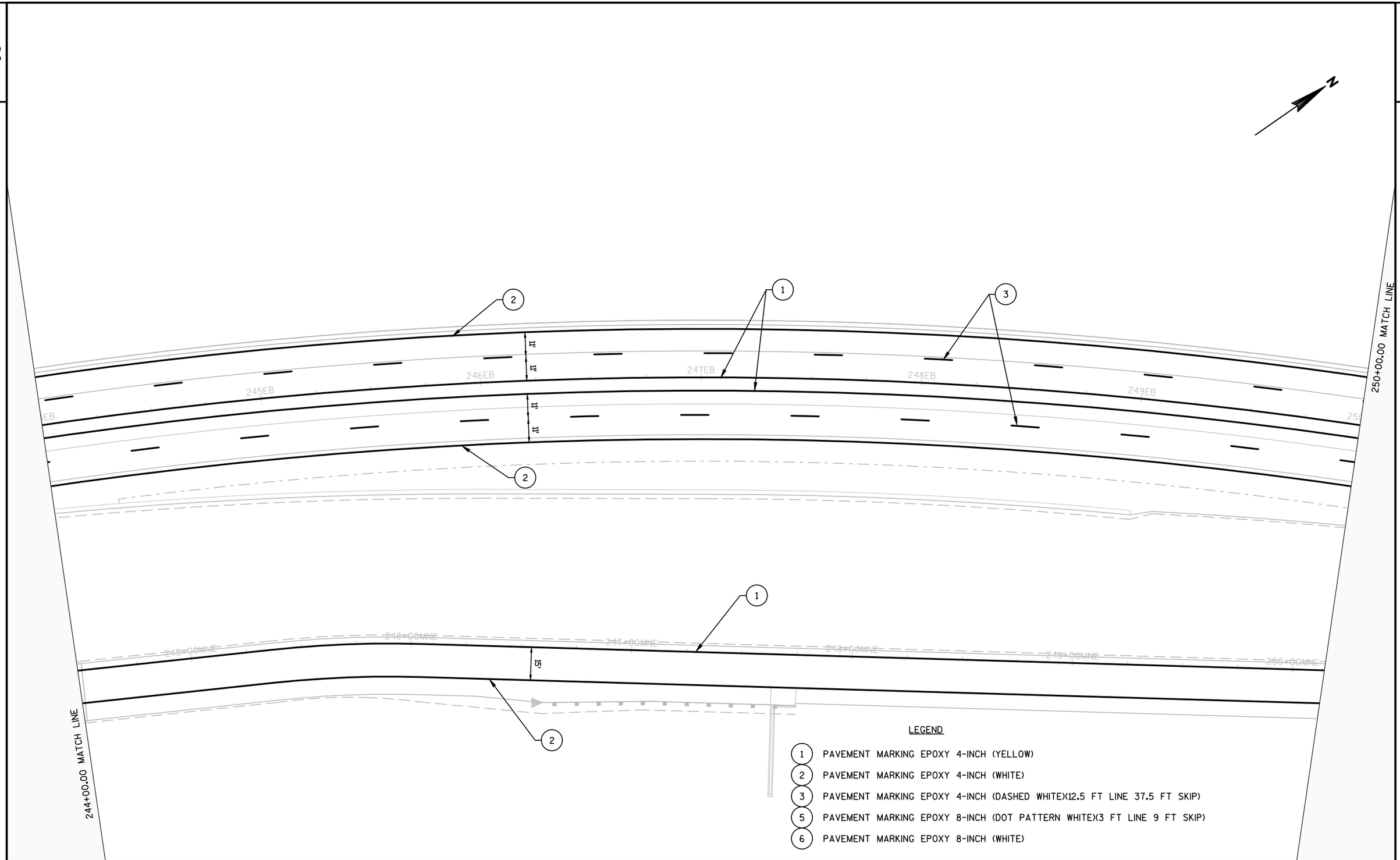
PROJECT NO: 1517-75-72	HWY: STH 441/USH 10	COUNTY: WINNEBAGO	PAVEMENT MARKING	SHEET 162	E

FILE NAME : S:\PDS\C3D\WIS441\15177570_72_77_85\SHEETSPLAN\1517-75-72\024500-PM\NE-15177572-024501-PM.DWG
LAYOUT NAME - 024514-PM

PLOT DATE : 2/10/2017 8:50 AM PLOT BY : MARTENS, JOHN M PLOT NAME : PLOT SCALE : 1 IN:40 FT

WISDOT/CADDS SHEET 42

2

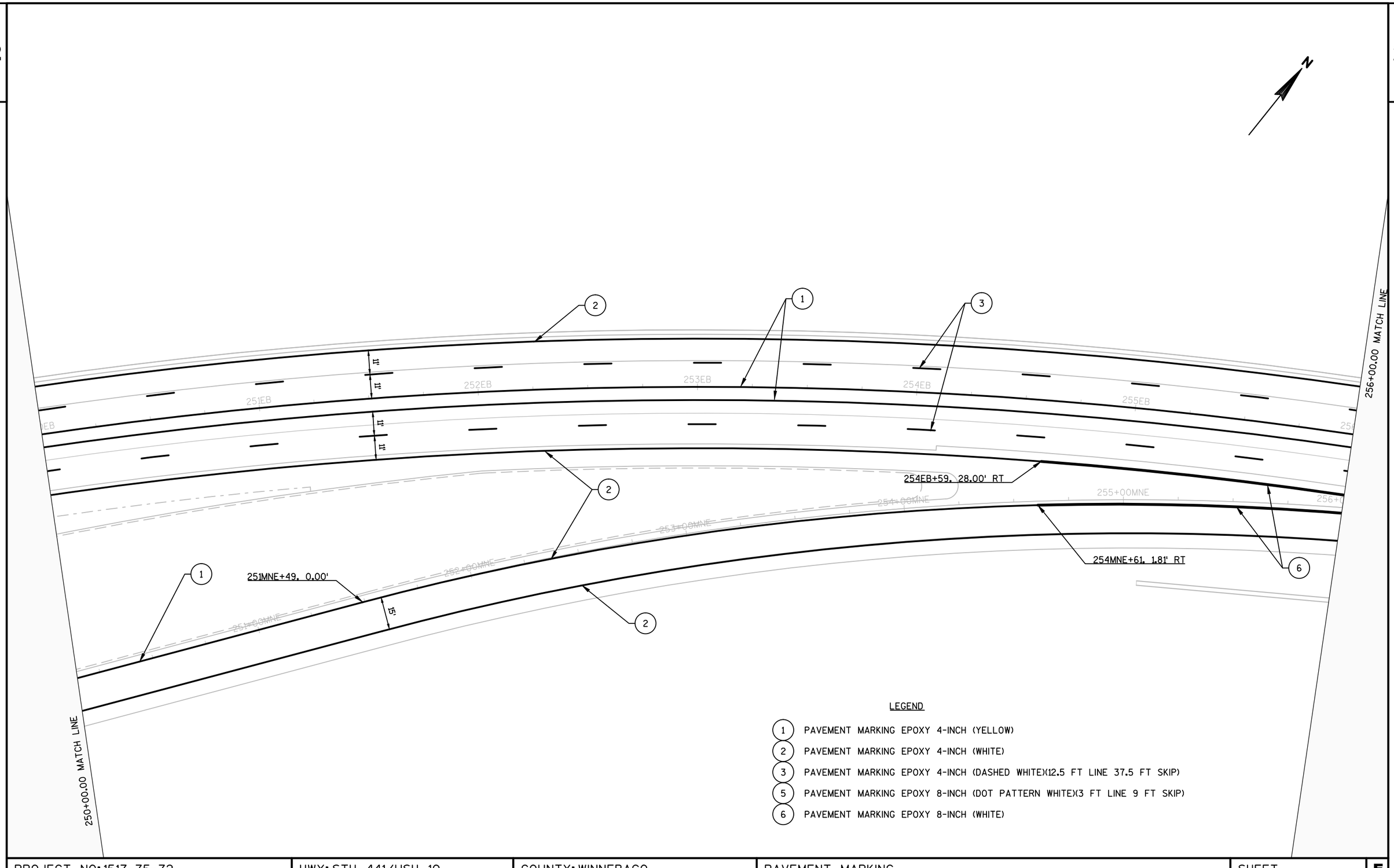


LEGEND

1	PAVEMENT MARKING EPOXY 4-INCH (YELLOW)
2	PAVEMENT MARKING EPOXY 4-INCH (WHITE)
3	PAVEMENT MARKING EPOXY 4-INCH (DASHED WHITE)(12.5 FT LINE 37.5 FT SKIP)
5	PAVEMENT MARKING EPOXY 8-INCH (DOT PATTERN WHITE)(3 FT LINE 9 FT SKIP)
6	PAVEMENT MARKING EPOXY 8-INCH (WHITE)

PROJECT NO: 1517-75-72	HWY: STH 441/USH 10	COUNTY: WINNEBAGO	PAVEMENT MARKING	SHEET 163	E

2

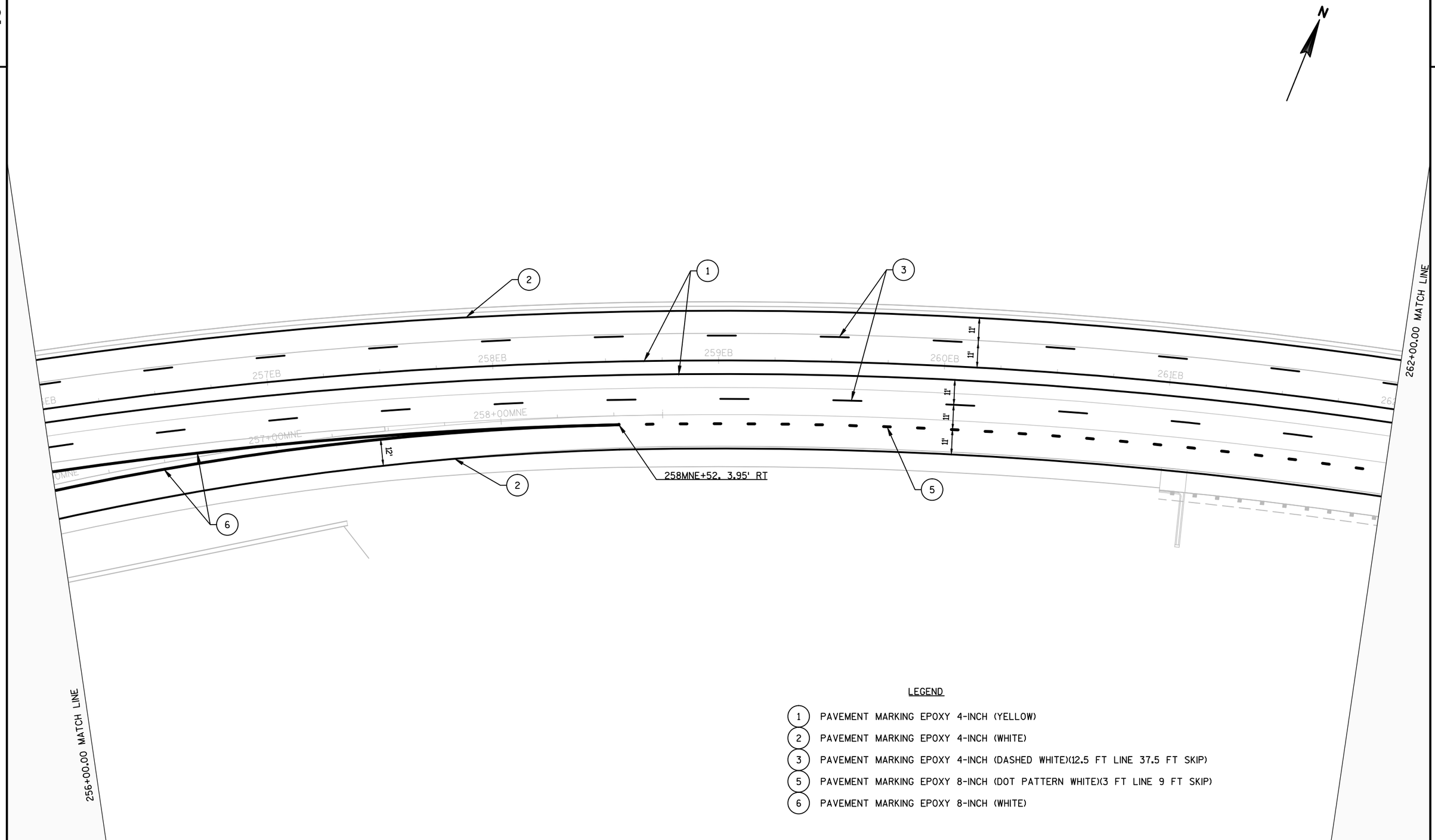


LEGEND

1	PAVEMENT MARKING EPOXY 4-INCH (YELLOW)
2	PAVEMENT MARKING EPOXY 4-INCH (WHITE)
3	PAVEMENT MARKING EPOXY 4-INCH (DASHED WHITE)(12.5 FT LINE 37.5 FT SKIP)
5	PAVEMENT MARKING EPOXY 8-INCH (DOT PATTERN WHITE)(3 FT LINE 9 FT SKIP)
6	PAVEMENT MARKING EPOXY 8-INCH (WHITE)

PROJECT NO: 1517-75-72	HWY: STH 441/USH 10	COUNTY: WINNEBAGO	PAVEMENT MARKING	SHEET 164	E

2



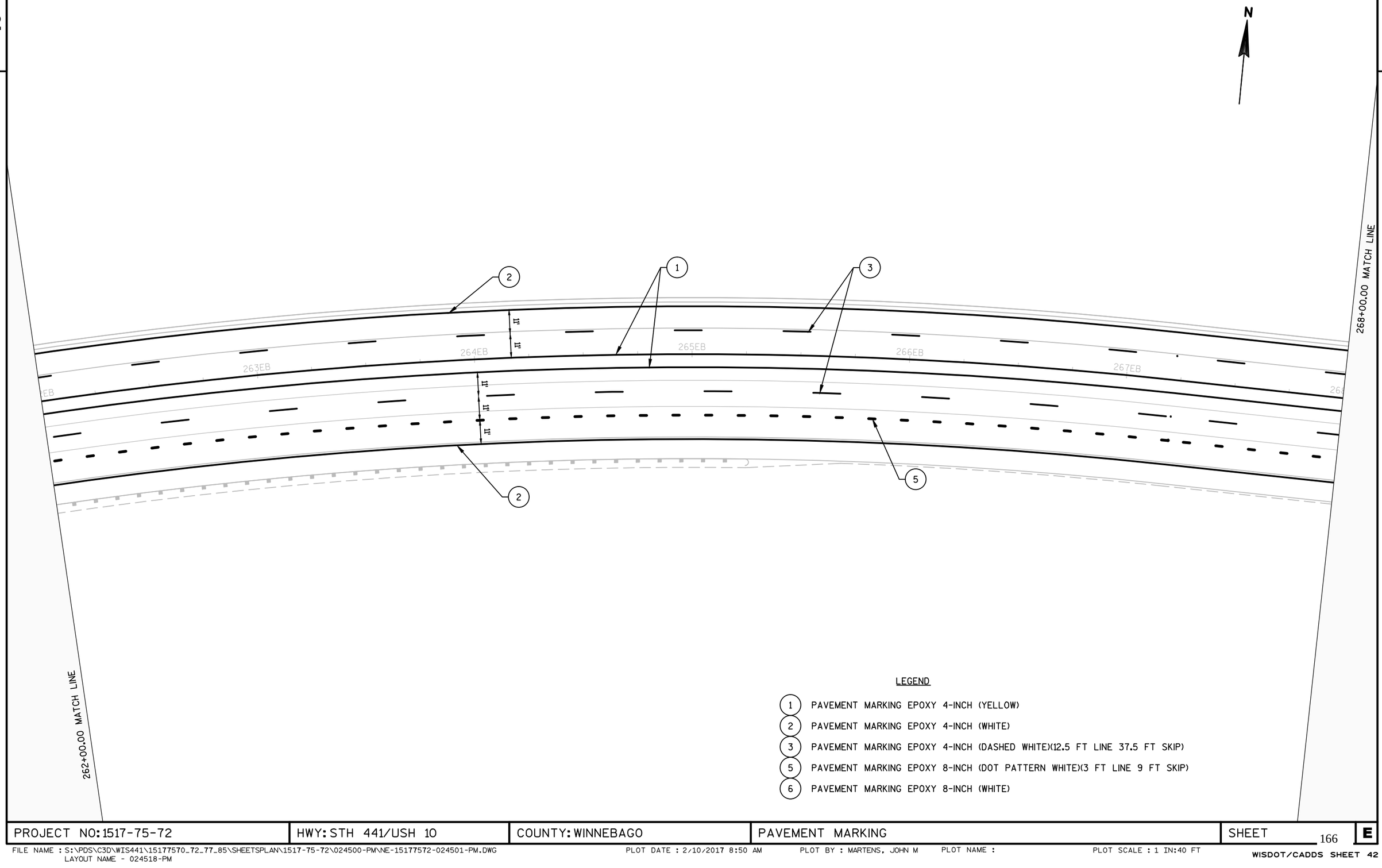
LEGEND

1. PAVEMENT MARKING EPOXY 4-INCH (YELLOW)
2. PAVEMENT MARKING EPOXY 4-INCH (WHITE)
3. PAVEMENT MARKING EPOXY 4-INCH (DASHED WHITE)(12.5 FT LINE 37.5 FT SKIP)
5. PAVEMENT MARKING EPOXY 8-INCH (DOT PATTERN WHITE)(3 FT LINE 9 FT SKIP)
6. PAVEMENT MARKING EPOXY 8-INCH (WHITE)

PROJECT NO:1517-75-72	HWY: STH 441/USH 10	COUNTY: WINNEBAGO	PAVEMENT MARKING	SHEET 165	E

FILE NAME : S:\PDS\C3D\WIS441\15177570_72_77_85\SHEETSPLAN\1517-75-72\024500-PM\NE-15177572-024501-PM.DWG
LAYOUT NAME - 024517-PM
PLOT DATE : 2/10/2017 8:50 AM PLOT BY : MARTENS, JOHN M PLOT NAME : PLOT SCALE : 1 IN:40 FT
WISDOT/CADDS SHEET 42

2



LEGEND

1	PAVEMENT MARKING EPOXY 4-INCH (YELLOW)
2	PAVEMENT MARKING EPOXY 4-INCH (WHITE)
3	PAVEMENT MARKING EPOXY 4-INCH (DASHED WHITE)(12.5 FT LINE 37.5 FT SKIP)
5	PAVEMENT MARKING EPOXY 8-INCH (DOT PATTERN WHITE)(3 FT LINE 9 FT SKIP)
6	PAVEMENT MARKING EPOXY 8-INCH (WHITE)

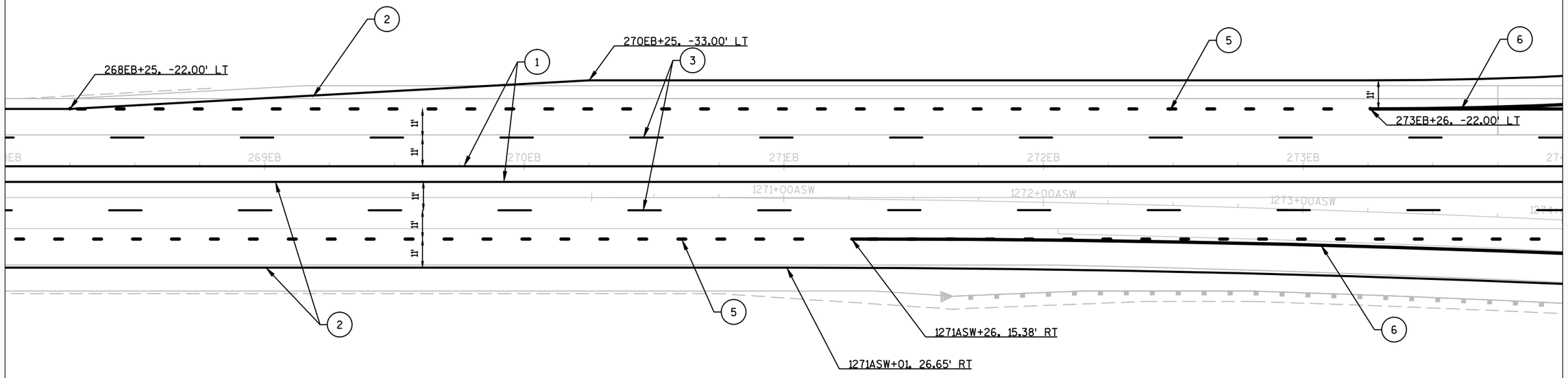
PROJECT NO: 1517-75-72	HWY: STH 441/USH 10	COUNTY: WINNEBAGO	PAVEMENT MARKING	SHEET 166	E

FILE NAME : S:\PDS\C3D\WIS441\15177570_72_77_85\SHEETSPLAN\1517-75-72\024500-PM\NE-15177572-024501-PM.DWG
LAYOUT NAME - 024518-PM
PLOT DATE : 2/10/2017 8:50 AM PLOT BY : MARTENS, JOHN M PLOT NAME : PLOT SCALE : 1 IN:40 FT
WISDOT/CADDS SHEET 42

2

N

274+00.00 MATCH LINE



268+00.00 MATCH LINE

LEGEND

1. PAVEMENT MARKING EPOXY 4-INCH (YELLOW)
2. PAVEMENT MARKING EPOXY 4-INCH (WHITE)
3. PAVEMENT MARKING EPOXY 4-INCH (DASHED WHITE)(12.5 FT LINE 37.5 FT SKIP)
5. PAVEMENT MARKING EPOXY 8-INCH (DOT PATTERN WHITE)(3 FT LINE 9 FT SKIP)
6. PAVEMENT MARKING EPOXY 8-INCH (WHITE)

PROJECT NO: 1517-75-72	HWY: STH 441/USH 10	COUNTY: WINNEBAGO	PAVEMENT MARKING	SHEET 167	E

FILE NAME : S:\PDS\C3D\WIS441\15177570_72_77_85\SHEETSPLAN\1517-75-72\024500-PM\NE-15177572-024501-PM.DWG
LAYOUT NAME - 024519-PM
PLOT DATE : 2/10/2017 8:50 AM PLOT BY : MARTENS, JOHN M PLOT NAME : PLOT SCALE : 1 IN:40 FT
WISDOT/CADDS SHEET 42

2

N

279+76.44, -129.42' LT
MATCH EXISTING

280+00.00 MATCH LINE

274+00.00 MATCH LINE

275EB+82, -42.00' LT

275EB+82, -22.00' LT

1278ASW+50, 0.00'
MATCH EXISTING

1275ASW+30, 0.30' RT

1277ASW+98, -19.94' LT

1278ASW+00, 0.00' LT

1278ASW+00, 12.00' RT

1278ASW+50, 12.00' RT
MATCH EXISTING

1279ASW+62, 24.00' RT
MATCH EXISTING

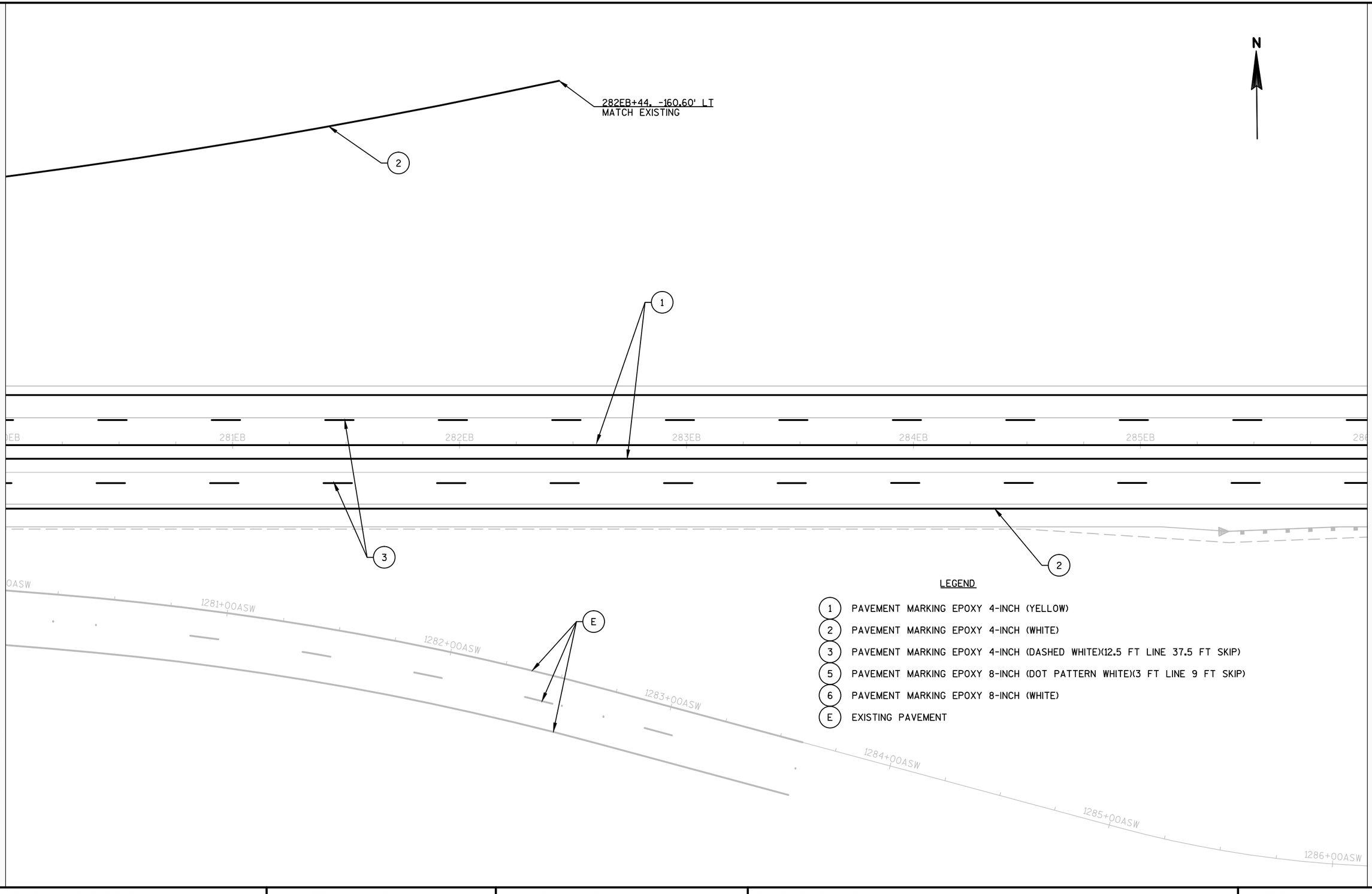
11'
11'
11'
12'
12'

LEGEND

1	PAVEMENT MARKING EPOXY 4-INCH (YELLOW)
2	PAVEMENT MARKING EPOXY 4-INCH (WHITE)
3	PAVEMENT MARKING EPOXY 4-INCH (DASHED WHITE)(12.5 FT LINE 37.5 FT SKIP)
5	PAVEMENT MARKING EPOXY 8-INCH (DOT PATTERN WHITE)(3 FT LINE 9 FT SKIP)
6	PAVEMENT MARKING EPOXY 8-INCH (WHITE)
E	EXISTING PAVEMENT

PROJECT NO: 1517-75-72	HWY: STH 441/USH 10	COUNTY: WINNEBAGO	PAVEMENT MARKING	SHEET 168	E

FILE NAME : S:\PDS\C3D\WIS441\15177570_72_77_85\SHEETSPLAN\1517-75-72\024500-PM\NE-15177572-024501-PM.DWG
LAYOUT NAME - 024520-PM
PLOT DATE : 2/10/2017 8:50 AM PLOT BY : MARTENS, JOHN M PLOT NAME : PLOT SCALE : 1 IN:40 FT
WISDOT/CADDS SHEET 42



LEGEND

1	PAVEMENT MARKING EPOXY 4-INCH (YELLOW)
2	PAVEMENT MARKING EPOXY 4-INCH (WHITE)
3	PAVEMENT MARKING EPOXY 4-INCH (DASHED WHITE)(12.5 FT LINE 37.5 FT SKIP)
5	PAVEMENT MARKING EPOXY 8-INCH (DOT PATTERN WHITE)(3 FT LINE 9 FT SKIP)
6	PAVEMENT MARKING EPOXY 8-INCH (WHITE)
E	EXISTING PAVEMENT

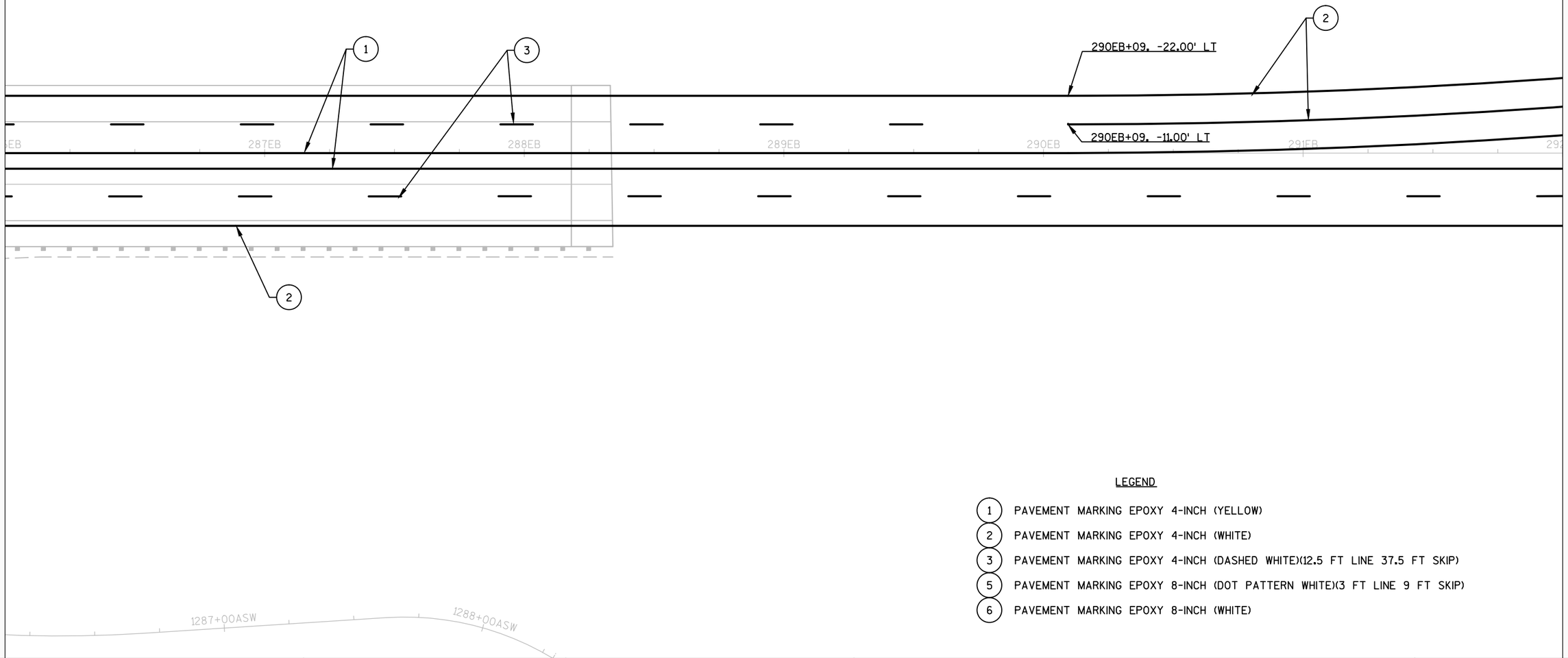
PROJECT NO: 1517-75-72	HWY: STH 441/USH 10	COUNTY: WINNEBAGO	PAVEMENT MARKING	SHEET 169	E

2

N

292+00.00 MATCH LINE

286+00.00 MATCH LINE



LEGEND

1	PAVEMENT MARKING EPOXY 4-INCH (YELLOW)
2	PAVEMENT MARKING EPOXY 4-INCH (WHITE)
3	PAVEMENT MARKING EPOXY 4-INCH (DASHED WHITE)(12.5 FT LINE 37.5 FT SKIP)
5	PAVEMENT MARKING EPOXY 8-INCH (DOT PATTERN WHITE)(3 FT LINE 9 FT SKIP)
6	PAVEMENT MARKING EPOXY 8-INCH (WHITE)

PROJECT NO: 1517-75-72	HWY: STH 441/USH 10	COUNTY: WINNEBAGO	PAVEMENT MARKING	SHEET 170	E

2

N

MATCH EXISTING PAVEMENT

298+08.00, -82.50' LT

298+08.00, -71.50' LT

298+08.00, -60.50' LT

MATCH EXISTING PAVEMENT

292EB 293EB 294EB 295EB 296EB 297EB 298EB

298+08.00, 6.00' RT

298+08.00, 16.50' RT

298+08.00, 28.00' RT

MATCH EXISTING PAVEMENT

CAN START TANGENT HERE
TO MATCH EXISTING

292+00.00 MATCH LINE

LEGEND

1	PAVEMENT MARKING EPOXY 4-INCH (YELLOW)
2	PAVEMENT MARKING EPOXY 4-INCH (WHITE)
3	PAVEMENT MARKING EPOXY 4-INCH (DASHED WHITE)(12.5 FT LINE 37.5 FT SKIP)
5	PAVEMENT MARKING EPOXY 8-INCH (DOT PATTERN WHITE)(3 FT LINE 9 FT SKIP)
6	PAVEMENT MARKING EPOXY 8-INCH (WHITE)
E	EXISTING PAVEMENT

PROJECT NO: 1517-75-72	HWY: STH 441/USH 10	COUNTY: WINNEBAGO	PAVEMENT MARKING	SHEET 171	E

FILE NAME : S:\PDS\C3D\WIS441\15177570_72_77_85\SHEETSPLAN\1517-75-72\024500-PM\NE-15177572-024501-PM.DWG
LAYOUT NAME - 024523-PM

PLOT DATE : 2/10/2017 8:50 AM PLOT BY : MARTENS, JOHN M PLOT NAME : PLOT SCALE : 1 IN:40 FT

WISDOT/CADDS SHEET 42

2

GENERAL
BRIDGES WITH RETAINING WALL ABUTMENTS SHALL HAVE THE RETAINING WALLS CONSTRUCTED WITH THE ASSOCIATED STRUCTURE.
THE FOLLOWING NOTES SUMMARIZE THE SEQUENCE OF CONSTRUCTION STAGES. THESE NOTES HAVE BEEN DEVELOPED IN THE FOLLOWING TEXT OUTLINE BELOW:
+OBJECTIVES
+STATUS OF PUBLIC USAGE
+REMOVAL/DEMOLITION THIS STAGE
+CONSTRUCTION THIS STAGE

CONSTRUCTION STAGE 1A
+OBJECTIVES
CONSTRUCT DRAINAGE BLANKET, WICK DRAINS, AND ROADWAY EMBANKMENT.
CONSTRUCT BRIDGE, RETAINING WALL, AND NOISE WALL STRUCTURES.
CONSTRUCT USH 10 EB/STH 441 NB ROADWAY.

+STATUS OF PUBLIC USAGE
SHIFT USH 10/STH 441 TRAFFIC.
ALL RAMPS ARE OPEN EXCEPT USH 10 WB/STH 441 SB ENTRANCE RAMP IS CLOSED AT RACINE ROAD INTERCHANGE.
ALL RAMPS ARE CLOSED EXCEPT USH 10 WB/STH 441 SB ENTRANCE RAMP IS OPEN AT MIDWAY ROAD INTERCHANGE.
MIDWAY ROAD (CTH AP) TRAFFIC, 1 LANE IN BOTH DIRECTION AT MIDWAY ROAD INTERCHANGE.
ALL RAMPS ARE OPEN AT APPLETON ROAD INTERCHANGE.

+REMOVAL/DEMOLTION THIS STAGE
PAVEMENT REMOVAL ON USH 10 EB/STH 441 NB EXIT AND ENTRANCE RAMPS AT MIDWAY ROAD INTERCHANGE.
PAVEMENT REMOVAL ON USH 10 WB/STH 441 SB EXIT RAMP AT MIDWAY ROAD INTERCHANGE.
PARTIAL PAVEMENT REMOVAL ON USH 10 EB/STH 441 NB.
PARTIAL PAVEMENT REMOVAL ON USH 10 WB/STH 441 SB.
PARTIAL PAVEMENT REMOVAL ON MIDWAY ROAD (CTH AP).

+CONSTRUCTION THIS STAGE
CONSTRUCT TEMPORARY STORM SEWER.
PARTIAL EXCAVATION OF POND 4.
CONSTRUCT DRAINAGE BLANKET, WICK DRAINS, AND ROADWAY EMBANKMENT.
TIME OF SETTLEMENT WITH WICK DRAINS, 9 MONTHS.
PRIMARY CONSOLIDATION 1-28 INCHES, DEPENDS ON FILL HEIGHT.
CONSTRUCT BRIDGE STRUCTURES B-70-423 AND B-70-424.
CONSTRUCT RETAINING WALL STRUCTURES R-70-142, R-70-150, AND R-70-151.
CONSTRUCT NOISE WALL N-70-132.
CONSTRUCT USH 10 EB/STH 441 NB ROADWAY
CONSTRUCT USH 10 EB/STH 441 NB ENTRANCE RAMP AT MIDWAY ROAD INTERCHANGE

CONSTRUCTION STAGE 1B
+OBJECTIVES
FINISH CONSTRUCTING USH 10 EB/STH 441 NB ROADWAY.

+STATUS OF PUBLIC USAGE
USH 10/STH 441 TRAFFIC IN STAGE 1A CONFIGURATION.
ALL RAMPS ARE OPEN EXCEPT USH 10 WB/STH 441 SB ENTRANCE RAMP IS CLOSED AT RACINE ROAD INTERCHANGE.
ALL RAMPS ARE CLOSED EXCEPT USH 10 WB/STH 441 SB ENTRANCE RAMP IS OPEN AT MIDWAY ROAD INTERCHANGE.
MIDWAY ROAD (CTH AP) TRAFFIC, 1 LANE IN BOTH DIRECTION AT MIDWAY ROAD INTERCHANGE.
ALL RAMPS ARE OPEN AT APPLETON ROAD INTERCHANGE. SHIFT USH 10 EB/STH 441 NB EXIT RAMP AT APPLETON ROAD INTERCHANGE.

+REMOVAL/DEMOLITION THIS STAGE
PARTIAL PAVEMENT REMOVAL ON USH 10 EB/STH 441 NB.

+CONSTRUCTION THIS STAGE
CONSTRUCT USH 10 EB/STH 441 NB ROADWAY.

CONSTRUCTION STAGE 2A
+OBJECTIVES
CONSTRUCT DRAINAGE BLANKET, WICK DRAINS, AND ROADWAY EMBANKMENT.
FINISH CONSTRUCTING USH 10 EB/STH 441 NB ROADWAY.
CONSTRUCT USH 10 WB/STH 441 SB BREAKER RUN.

+STATUS OF PUBLIC USAGE
SHIFT USH 10/STH 441 TRAFFIC ONTO NEW EB ROADWAY PAVEMENT.
ALL RAMPS ARE OPEN AT RACINE ROAD INTERCHANGE.
ALL RAMPS ARE CLOSED EXCEPT USH 10 EB/STH 441 ENTRANCE RAMP AT MIDWAY ROAD INTERCHANGE.
MIDWAY ROAD (CTH AP) TRAFFIC, 1 LANE IN BOTH DIRECTION AT MIDWAY ROAD INTERCHANGE.
ALL RAMPS ARE OPEN AT APPLETON ROAD INTERCHANGE. SHIFT USH 10 WB/STH 441 SB ENTRANCE RAMP AT APPLETON ROAD INTERCHANGE.

+REMOVAL/DEMOLITION THIS STAGE
PARTIAL PAVEMENT REMOVAL ON USH 10 WB/STH 441 SB.
PAVEMENT REMOVAL ON USH 10 WB/STH 441 SB ENTRANCE RAMP AT MIDWAY ROAD INTERCHANGE.
REMOVAL OF BRIDGE STRUCTURES B-70-111 AND B-70-112.

+CONSTRUCTION THIS STAGE
POND 4 EXCAVATION
CONSTRUCT DRAINAGE BLANKET, WICK DRAINS, AND ROADWAY EMBANKMENT.
TIME OF SETTLEMENT WITH WICK DRAINS, 9 MONTHS PER LIFT.
PRIMARY CONSOLIDATION 1-28 INCHES, DEPENDS ON FILL HEIGHT.
CONSTRUCT USH 10 EB/STH 441 NB ROADWAY.

CONSTRUCTION STAGE 2B
+OBJECTIVES
SHIFT USH 10 WB/STH 441 SB TRAFFIC ONTO FINAL WB PAVEMENT.

+STATUS OF PUBLIC USAGE
SHIFT USH 10/STH 441 TRAFFIC.
ALL RAMPS ARE OPEN AT RACINE ROAD INTERCHANGE.
ALL RAMPS ARE CLOSE EXCEPT FOR USH 10 EB/STH 441 ENTRANCE RAMP AT MIDWAY ROAD INTERCHANGE.
MIDWAY ROAD (CTH AP) TRAFFIC, 1 LANE IN BOTH DIRECTION AT MIDWAY ROAD INTERCHANGE.
ALL RAMPS ARE OPEN AT APPLETON ROAD INTERCHANGE.

+REMOVAL/DEMOLITION THIS STAGE

2

GENERAL NOTES FOR TRAFFIC OONTROL

1) THE EXACT NUMBER, LOCATION, AND SPACING OF ALL SIGN DEVICES SHALL BE ADJUSTED TO FIT FIELD CONDITIONS AS DIRECTED BY THE ENGINEER.

2) CONFLICTING TRAFFIC SIGNS SHALL BE COVERED OR REMOVED AS DIRECTED BY THE ENGINEER. CONFLICTING SIGNS WILL BE COVERED USING THE APPROPRIATE STANDARD BID ITEM, TRAFFIC CONTROL COVERING SIGNS TYPE 1 OR TRAFFIC CONTROL COVERING SIGNS TYPE II.

3) "WO" SIGNS ARE THE SAME AS "W" SIGNS EXCEPT THE BACKGROUND IS ORANGE.

4) FOR NIGHTTIME OPERATION, ALL DRUMS IN TAPERS SHALL HAVE A TYPE C STEADY BURN WARNING LIGHT.

5) ALL TYPE III BARRICADES SHALL BE 8' WIDE, UNLESS OTHERWISE NOTED, AND EQUIPPED WITH TWO TYPE A (LOW INTENSITY FLASHING) LIGHTS.

6) WORK AREAS SHOWN MAY NOT ILLUSTRATE ALL REMOVALS, SEE REMOVAL SHEETS FOR ADDITIONAL INFORMATION.

7) WHEN A SEGMENT OF THE PROJECT IS NOT SHOWN ON THE STAGING PLANS, USE THE SAME TRAFFIC CONTROL AS THE PREVIOUS STAGE FOR THAT SEGMENT OR AS DIRECTED BY THE ENGINEER.

8) PAVEMENT MARKING THAT IS SHOWN SHADED ON TRAFFIC CONTROL PLANS ARE THERE FOR REFERENCE ONLY. PAVEMENT MARKING SHALL BE ADJUSTED TO FIT FIELD CONDITIONS AS DIRECTED BY THE ENGINEER.

9) ALL PAVEMENT MARKING STATIONING IN TRAFFIC CONTROL PLANS HAVE THE PREFIX OF THE ALIGNMENT THAT IT IS MEASURED FROM, IN THE STATION CALLOUT.

10) FOR ALL CONCRETE BARRIER TEMPORARY PRECAST, THERE WILL BE DELINEATORS ATTACHED PER STANDARD DETAIL DRAWING CONCRETE BARRIER TEMPORARY PRECAST 12'-6". PLACE REFLECTORS OF THE APPROPRIATE COLOR ON BOTH SIDES OF THE DELINEATOR. DELINEATORS ARE INCIDENTAL TO THE CONCRETE BARRIER TEMPORARY PRECAST BID ITEM.

11) REMOVING PAVEMENT MARKING ON EXISTING AND NEW PAVEMENT USES THE STANDARD BID ITEM.

GENERAL NOTES FOR FIXED MESSAGE SIGNS FOUND ON TRAFFIC CONTROL SHEETS

1) CONTRACTOR SHALL LOCATE FIXED MESSAGE SIGNS A MINIMUM OF 400' FROM ANY TYPE I SIGN AND A MINIMUM OF 200' FROM ANY TYPE II SIGN.

2) ALL FIXED MESSAGE SIGNS SHALL BE BLACK NON-REFLECTIVE MESSAGE ON STANDARD REFLECTIVE SHEETING-REFERENCE: "WISCONSIN DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATIONS FOR HIGHWAY AND STRUCTURE CONSTRUCTION". LATEST EDITION.

3) SEE FIXED MESSAGE SIGN CONSTRUCTION DETAIL SHEETS FOR MORE INFORMATION.

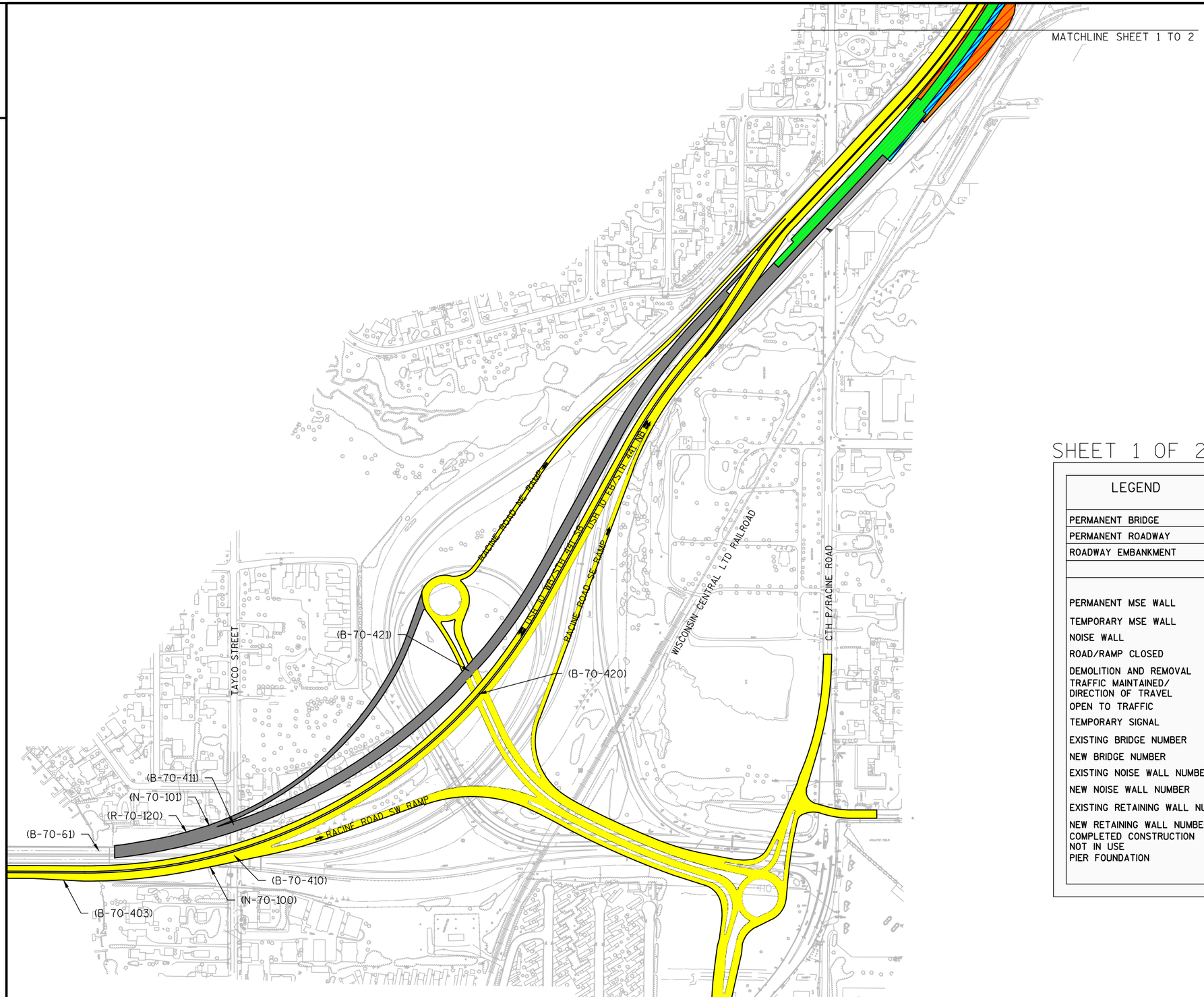
LEGEND

- TYPE III BARRICADE
- TYPE III BARRICADE WTH ATTACHED SIGN
- TRAFFIC CONTROL DRUM
- TRAFFIC CONTROL DRUM WITH TYPE C STEADY BURN LIGHT
- SIGN ON PERMANENT SUPPORT
- SIGN ON TEMPORARY SUPPORT
- Ⓐ TYPE A WARNING LIGHT (FLASHING)
- Ⓒ TYPE C WARNING LIGHT (STEADY BURN)
- CONCRETE BARRIER TEMPORARY PRECAST
- WORK AREA
- FLAGGER, EQUIPPED WITH STOP/SLOW PADDLE FASTENED ON SUPPORT STAFF
- DIRECTION OF TRAFFIC
- MB PORTABLE CHANGEABLE MESSAGE BOARD

PAVEMENT MARKING LEGEND

- (1) PAVEMENT MARKING EPOXY 4-INCH (YELLOW)
- (2) PAVEMENT MARKING EPOXY 4-INCH (WHITE)
- (3) PAVEMENT MARKING EPOXY 4-INCH (DASHED WHITE)(12.5 FT LINE 37.5 FT SKIP)
- (5) PAVEMENT MARKING EPOXY 8-INCH (DOT PATTERN WHITE)(3 FT LINE 9 FT SKIP)
- (6) PAVEMENT MARKING EPOXY 8-INCH (WHITE)
- (46) TEMPORARY PAVEMENT MARKING REMOVABLE TAPE 4-INCH (WHITE)
- (49) TEMPORARY PAVEMENT MARKING REMOVABLE TAPE 8-INCH (WHITE)
- (100) TEMPORARY PAVEMENT MARKING EPOXY 4-INCH (YELLOW)
- (101) TEMPORARY PAVEMENT MARKING EPOXY 4-INCH (WHITE)
- (102) TEMPORARY PAVEMENT MARKING EPOXY 4-INCH (DASHED WHITE)(12.5 FT LINE 37.5 FT SKIP)
- (103) TEMPORARY PAVEMENT MARKING EPOXY 8-INCH (DOT PATTERN WHITE)(3 FT LINE 9 FT SKIP)
- (104) TEMPORARY PAVEMENT MARKING EPOXY 8-INCH (WHITE)
- (105) TEMPORARY PAVEMENT MARKING REMOVABLE TAPE 8-INCH (DOT PATTERN WHITE)(3 FT LINE 9 FT SKIP)
- (E) EXISTING PAVEMENT MARKING

2



SHEET 1 OF 2

LEGEND	CONSTRUCTION AVAILABLE THIS PHASE	CONSTRUCTION CRITICAL FOR NEXT PHASE
PERMANENT BRIDGE		
PERMANENT ROADWAY		
ROADWAY EMBANKMENT		

PERMANENT MSE WALL	
TEMPORARY MSE WALL	
NOISE WALL	
ROAD/RAMP CLOSED	
DEMOLITION AND REMOVAL	
TRAFFIC MAINTAINED/ DIRECTION OF TRAVEL	
OPEN TO TRAFFIC	
TEMPORARY SIGNAL	T
EXISTING BRIDGE NUMBER	(B-70-XXXX)
NEW BRIDGE NUMBER	B-70-XXXX
EXISTING NOISE WALL NUMBER	(N-70-XXXX)
NEW NOISE WALL NUMBER	N-70-XXXX
EXISTING RETAINING WALL NUMBER	(R-70-XXXX)
NEW RETAINING WALL NUMBER	R-70-XXXX
COMPLETED CONSTRUCTION NOT IN USE	
PIER FOUNDATION	

2

2

N

STH 47/APPLETON ROAD

APPLETON ROAD NW RAMP

APPLETON ROAD SW RAMP

USH 10 WB/STH 441 SB

USH 10 EB/STH 441 NB

N-70-132

R-70-142

(B-70-112)

(B-70-111)

B-70-424

R-70-151

B-70-423

CTH AP/MIDWAY ROAD

MIDWAY ROAD SW RAMP

R-70-150

CTH P/RACINE ROAD

RICHARD DRIVE

WISCONSIN CENTRAL LTD RAILROAD

MATCHLINE SHEET 2 TO 1

SHEET 2 OF 2

LEGEND	CONSTRUCTION AVAILABLE THIS PHASE	CONSTRUCTION CRITICAL FOR NEXT PHASE
PERMANENT BRIDGE		
PERMANENT ROADWAY		
ROADWAY EMBANKMENT		

PERMANENT MSE WALL	
TEMPORARY MSE WALL	
NOISE WALL	
ROAD/RAMP CLOSED	
DEMOLITION AND REMOVAL	
TRAFFIC MAINTAINED/ DIRECTION OF TRAVEL	
OPEN TO TRAFFIC	
TEMPORARY SIGNAL	T
EXISTING BRIDGE NUMBER	(B-70-XXXX)
NEW BRIDGE NUMBER	B-70-XXXX
EXISTING NOISE WALL NUMBER	(N-70-XXXX)
NEW NOISE WALL NUMBER	N-70-XXXX
EXISTING RETAINING WALL NUMBER	(R-70-XXXX)
NEW RETAINING WALL NUMBER	R-70-XXXX
COMPLETED CONSTRUCTION NOT IN USE	
PIER FOUNDATION	

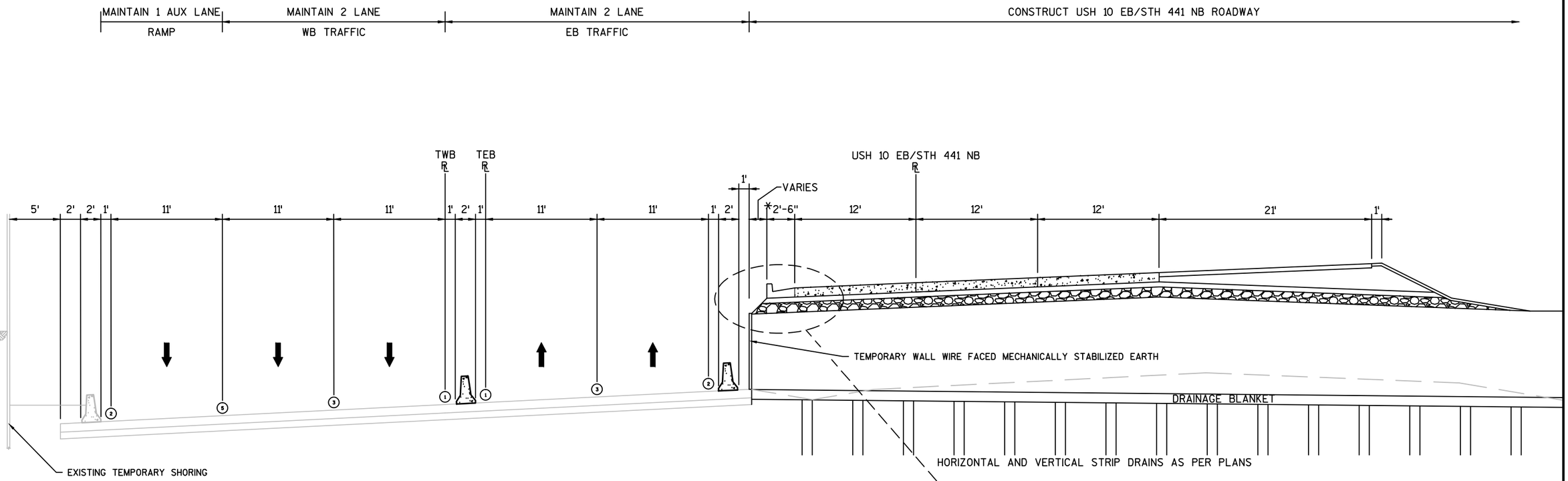
PROJECT NO: 1517-75-72	HWY: STH 441/USH 10	COUNTY: WINNEBAGO	STAGE CONSTRUCTION 1A - SHEET 2	SHEET 175	E

FILE NAME : S:\PDS\C3D\WIS441\15177570_72_77_85\SHEETSPLAN\1517-75-72\025000-SC\NE-15177572-025101-SC1A.DWG
LAYOUT NAME - 025102-SC1A

PLOT DATE : 4/4/2017 8:10 AM PLOT BY : MARTENS, JOHN M PLOT NAME : PLOT SCALE : 1 IN:400 FT

WISDOT/CADDS SHEET 42

2

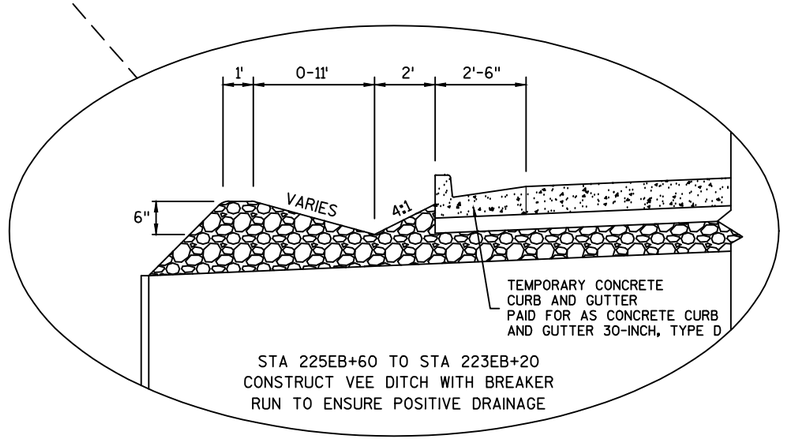


TYPICAL SECTION - TRAFFIC CONTROL STAGE 1A
TEMPORARY USH 10/STH 441
STA 225EBT+60.51 TO STA 234EBT+37.18

NOTES

REFER TO TRAFFIC CONTROL PLAN SHEETS, FOR CHANGES BETWEEN TRAFFIC CONTROL DRUMS AND CONCRETE BARRIER TEMPORARY PRECAST.

*STA 255EBT+60.51 TO STA 229EBT+72.68 TAPER 17' TO 3'
*STA 229EBT+72.68 TO STA 234EBT+37.18 TAPER 3' TO 17'



PROJECT NO: 1517-75-72	HWY: STH 441/USH 10	COUNTY: WINNEBAGO	TRAFFIC CONTROL STAGE 1A	SHEET 176	E

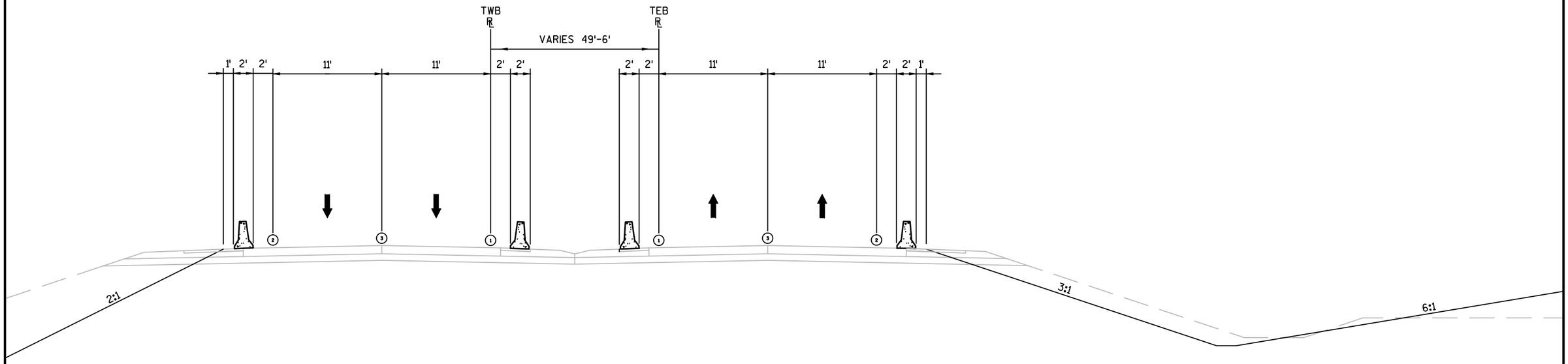
2

PARTIAL POND 4 EXCAVATION
ACCORDING TO POND DETAILS

*MAINTAIN 2 LANE
WB TRAFFIC

*MAINTAIN 2 LANE
EB TRAFFIC

CONSTRUCT USH 10 EB/STH 441 NB ROADWAY
EXCAVATION, GRADE, AND FILL ACCORDING TO TYPICAL SECTIONS

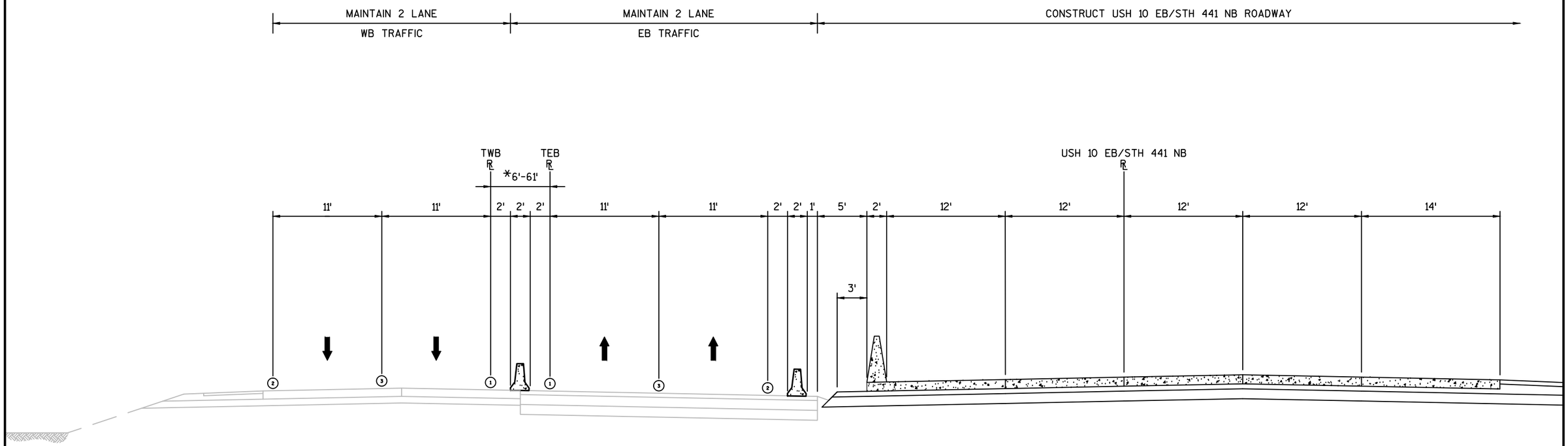


TYPICAL SECTION - TRAFFIC CONTROL STAGE 1A
TEMPORARY USH 10/STH 441
STA 243EBT+83.32 TO STA 269EBT+61.06

NOTES

REFER TO TRAFFIC CONTROL PLAN SHEETS, FOR CHANGES BETWEEN
TRAFFIC CONTROL DRUMS AND CONCRETE BARRIER TEMPORARY PRECAST.

2



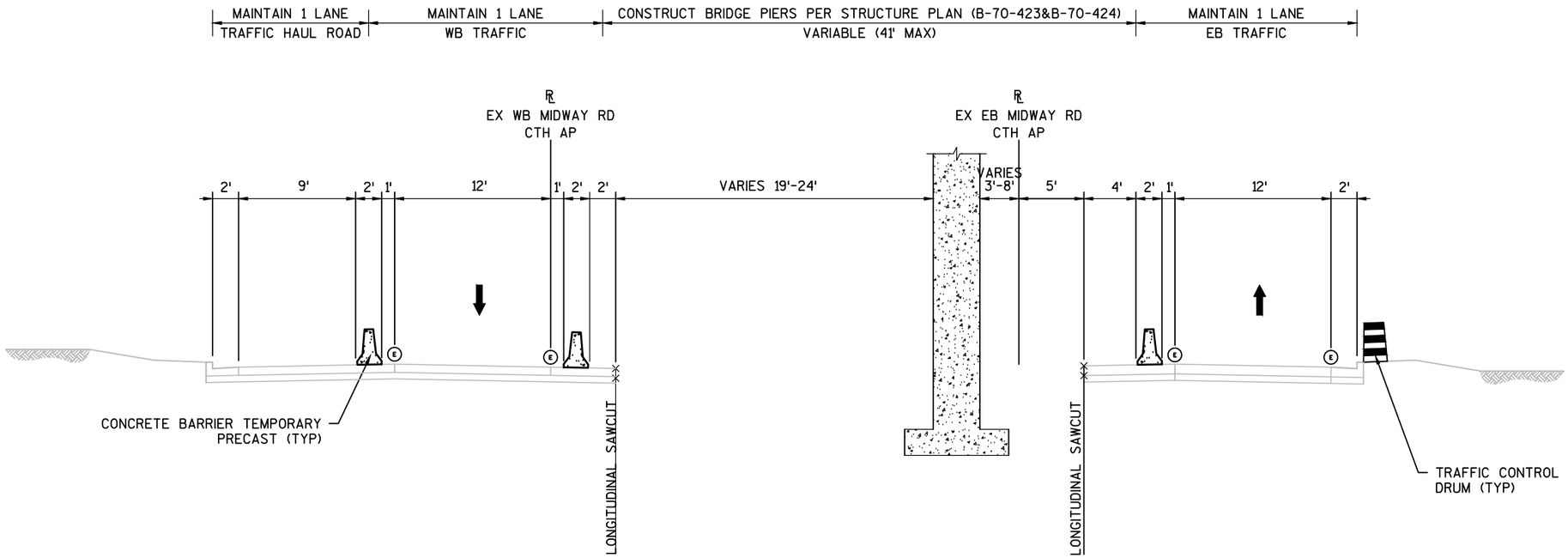
TYPICAL SECTION - TRAFFIC CONTROL STAGE 1A
TEMPORARY USH 10/STH 441
STA 269EBT+61.06 TO STA 305EBT+28.46

NOTES

REFER TO TRAFFIC CONTROL PLAN SHEETS, FOR CHANGES BETWEEN TRAFFIC CONTROL DRUMS AND CONCRETE BARRIER TEMPORARY PRECAST.

*STA 294EBT+26.75 TO STA 305+28.46 TAPER 6' TO 61'

2



TYPICAL SECTION - TRAFFIC CONTROL STAGE 1A
EXISTING MIDWAY ROAD (CTH AP)
STA 18EMEB+95 TO STA 26EMEB+00.00
(LOOKING SOUTHEAST)

NOTES

REFER TO TRAFFIC CONTROL PLAN SHEETS, FOR CHANGES BETWEEN TRAFFIC CONTROL DRUMS AND CONCRETE BARRIER TEMPORARY PRECAST.

2

2

LEGEND

(101) TEMPORARY PAVEMENT MARKING EPOXY 4-INCH (WHITE)

(104) TEMPORARY PAVEMENT MARKING EPOXY 8-INCH (WHITE)

(E) EXISTING PAVEMENT MARKING

N

USH 10 WB/STH 441 SB

USH 10 EB/STH 441 NB

RACINE RD SE RAMP

202EBT 203EBT 204EBT 205EBT 206EBT 207EBT 208

208+00.00 MATCH LINE

206EBT+83. 22.00' RT
MATCH EXISTING

206EBT+83. 42.00' RT

205EBT+67. 59.01' RT
MATCH EXISTING

205EBT+69. 73.85' RT
MATCH EXISTING

15'

50'(TYP)

(E) (E) (E)

W4-1R
EXISTING

ROAD
WORK
AHEAD
W20-1-A

PROJECT NO:1517-75-72	HWY: STH 441/USH 10	COUNTY: WINNEBAGO	TRAFFIC CONTROL STAGE 1A	SHEET 180	E

2

END ROAD WORK
G20-2A
48"X24"

RACINE RD NE RAMP

MATCH EXISTING

LEFT IN PLACE FROM PROJECT ID 1517-75-75

ROAD CLOSED
R11-2
EXISTING

MATCH EXISTING

212EBT+16, -3.00' LT
MATCH EXISTING

212EBT+16, 0.00'
MATCH EXISTING

USH 10 WB/STH 441 SB

USH 10 EB/STH 441 NB

208+00.00 MATCH LINE

214+00.00 MATCH LINE

209EBT

210EBT

211EBT

212EBT

213EBT

RACINE RD SE RAMP

212EBT+16, 11.00' RT

213EBT+17, 22.00' RT

210EBT+44, 22.00' RT

W4-2R
36"X36"

W9-1R
30"X30"

RIGHT LANE ENDS

W1-6
48"X24"

50'(TYP)

15'

2'

11'

11'

LEGEND

100	TEMPORARY PAVEMENT MARKING EPOXY 4-INCH (YELLOW)
101	TEMPORARY PAVEMENT MARKING EPOXY 4-INCH (WHITE)
102	TEMPORARY PAVEMENT MARKING EPOXY 4-INCH (DASHED WHITE)(12.5 FT LINE 37.5 FT SKIP)
103	TEMPORARY PAVEMENT MARKING EPOXY 8-INCH (DOT PATTERN WHITE)(3 FT LINE 9 FT SKIP)
104	TEMPORARY PAVEMENT MARKING EPOXY 8-INCH (WHITE)
E	EXISTING PAVEMENT MARKING

PROJECT NO: 1517-75-72	HWY: STH 441/USH 10	COUNTY: WINNEBAGO	TRAFFIC CONTROL STAGE 1A	SHEET 181	E

FILE NAME : S:\PDS\C3D\WIS441\15177570_72_77_85\SHEETSPLAN\1517-75-72\026000-TC\NE-15177572-026101-TC1A.DWG
LAYOUT NAME - 026102-TC1A

PLOT DATE : 4/4/2017 8:12 AM PLOT BY : MARTENS, JOHN M PLOT NAME : PLOT SCALE : 1 IN:40 FT

WISDOT/CADDS SHEET 42

2

N

101

W01-6
48"X24"

EXIT

E5-1

INLET CASTINGS TO BE BOLTED
WHEN TRAFFIC GOING OVER THEM

2'

15'

50'(TYP)

101

MATCH EXISTING

101

104

102

MATCH EXISTING

MATCH EXISTING

100

RACINE RD NE RAMP

USH 10 WB/STH 441 SB

214+00.00 MATCH LINE

215EBT

216EBT

USH 10 EB/STH 441 NB

217EBT

218EBT

219EBT

220+00.00 MATCH LINE

2'

R529'

4'

RACINE RD SE RAMP

50'(TYP)

2'

103

216EBT+16, 35.13' RT

217EBT+77, 28.51' RT

218EBT+67, 24.00' RT

FMS

ROAD
CLOSED

R11-2
48"X30"

W4-2R
36"X36"

215EBT+49, 50.15' RT

MIDWAY RD
RAMPS CLOSED
USED HWY 47

108"X54"

LEGEND

100	TEMPORARY PAVEMENT MARKING EPOXY 4-INCH (YELLOW)
101	TEMPORARY PAVEMENT MARKING EPOXY 4-INCH (WHITE)
102	TEMPORARY PAVEMENT MARKING EPOXY 4-INCH (DASHED WHITE)(12.5 FT LINE 37.5 FT SKIP)
103	TEMPORARY PAVEMENT MARKING EPOXY 8-INCH (DOT PATTERN WHITE)(3 FT LINE 9 FT SKIP)
104	TEMPORARY PAVEMENT MARKING EPOXY 8-INCH (WHITE)
E	EXISTING PAVEMENT MARKING

PROJECT NO: 1517-75-72	HWY: STH 441/USH 10	COUNTY: WINNEBAGO	TRAFFIC CONTROL STAGE 1A	SHEET 182	E

FILE NAME : S:\PDS\C3D\WIS441\15177570_72_77_85\SHEETSPLAN\1517-75-72\026000-TC\NE-15177572-026101-TC1A.DWG
LAYOUT NAME - 026103-TC1A

PLOT DATE : 4/4/2017 8:12 AM PLOT BY : MARTENS, JOHN M PLOT NAME : PLOT SCALE : 1 IN:40 FT

WISDOT/CADDS SHEET 42

2

LEGEND

(100) TEMPORARY PAVEMENT MARKING EPOXY 4-INCH (YELLOW)

(101) TEMPORARY PAVEMENT MARKING EPOXY 4-INCH (WHITE)

(102) TEMPORARY PAVEMENT MARKING EPOXY 4-INCH (DASHED WHITE)(12.5 FT LINE 37.5 FT SKIP)

(103) TEMPORARY PAVEMENT MARKING EPOXY 8-INCH (DOT PATTERN WHITE)(3 FT LINE 9 FT SKIP)

(104) TEMPORARY PAVEMENT MARKING EPOXY 8-INCH (WHITE)

(E) EXISTING PAVEMENT MARKING

INLET CASTINGS TO BE BOLTED WHEN TRAFFIC GOING OVER THEM

RACINE RD

STAY IN LANE R4-9

LEFT IN PLACE FROM PROJECT ID 1517-75-75

USH 10 WB/STH 441 SB

USH 10 EB/STH 441 NB

220+00.00 MATCH LINE

226+00.00 MATCH LINE

SPEED LIMIT 55 R2-1 24"X30"

PROJECT NO: 1517-75-72	HWY: STH 441/USH 10	COUNTY: WINNEBAGO	TRAFFIC CONTROL STAGE 1A	SHEET 183	E

FILE NAME : S:\PDS\C3D\WIS441\151775T0_72_77_85\SHEETSPLAN\1517-75-72\026000-TC\NE-15177572-026101-TC1A.DWG
LAYOUT NAME - 026104-TC1A

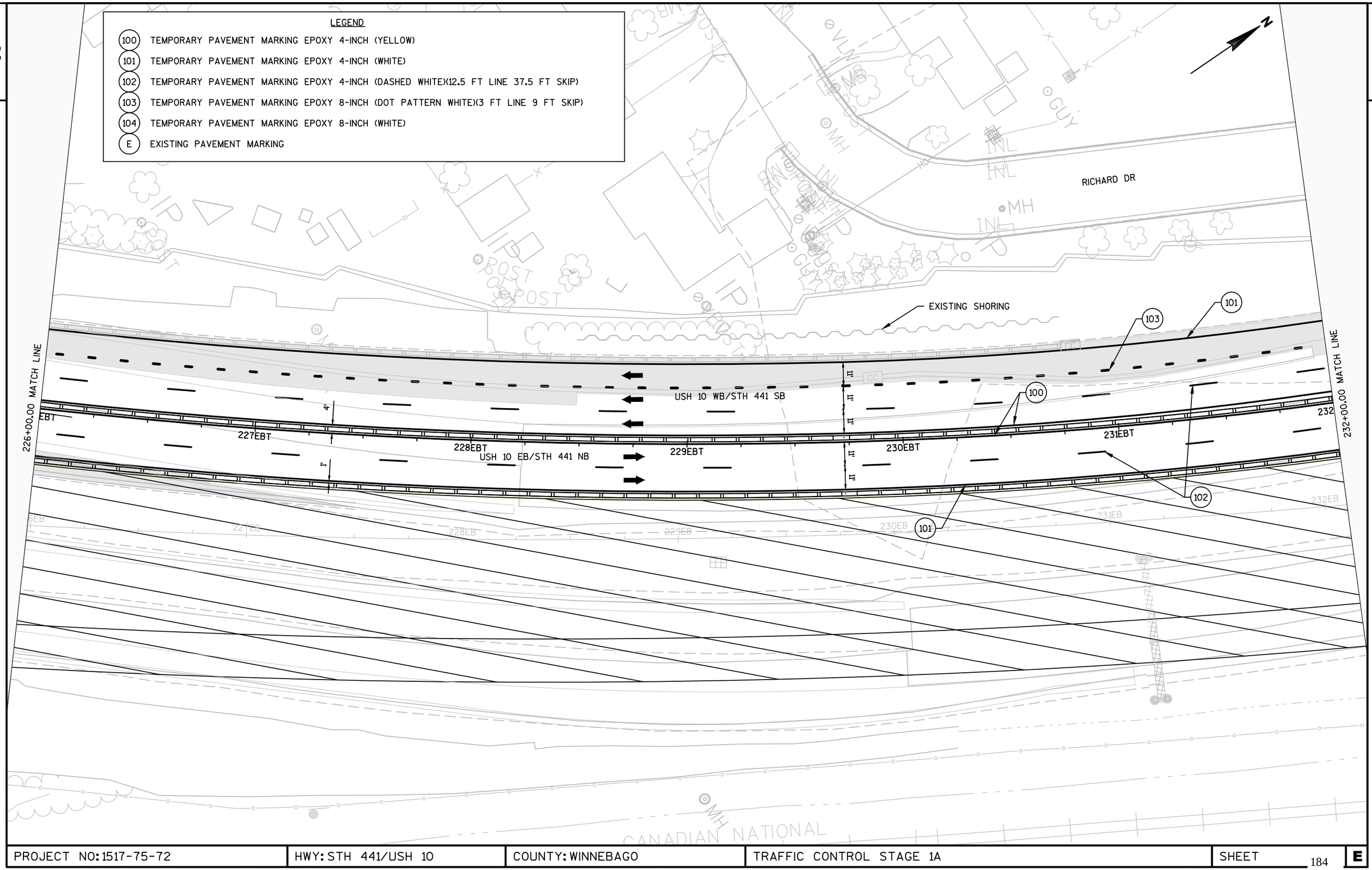
PLOT DATE : 4/4/2017 8:12 AM PLOT BY : MARTENS, JOHN M PLOT NAME : PLOT SCALE : 1 IN:40 FT

WISDOT/CADDS SHEET 42

2

LEGEND

100	TEMPORARY PAVEMENT MARKING EPOXY 4-INCH (YELLOW)
101	TEMPORARY PAVEMENT MARKING EPOXY 4-INCH (WHITE)
102	TEMPORARY PAVEMENT MARKING EPOXY 4-INCH (DASHED WHITE)(12.5 FT LINE 37.5 FT SKIP)
103	TEMPORARY PAVEMENT MARKING EPOXY 8-INCH (DOT PATTERN WHITE)(3 FT LINE 9 FT SKIP)
104	TEMPORARY PAVEMENT MARKING EPOXY 8-INCH (WHITE)
E	EXISTING PAVEMENT MARKING



PROJECT NO: 1517-75-72	HWY: STH 441/USH 10	COUNTY: WINNEBAGO	TRAFFIC CONTROL STAGE 1A	SHEET 184 E

LEGEND

100	TEMPORARY PAVEMENT MARKING EPOXY 4-INCH (YELLOW)
101	TEMPORARY PAVEMENT MARKING EPOXY 4-INCH (WHITE)
102	TEMPORARY PAVEMENT MARKING EPOXY 4-INCH (DASHED WHITE)(12.5 FT LINE 37.5 FT SKIP)
103	TEMPORARY PAVEMENT MARKING EPOXY 8-INCH (DOT PATTERN WHITE)(3 FT LINE 9 FT SKIP)
104	TEMPORARY PAVEMENT MARKING EPOXY 8-INCH (WHITE)
E	EXISTING PAVEMENT MARKING

LEFT IN PLACE FROM PROJECT ID 1517-75-75

MATCH EXISTING

MATCH EXISTING

W5-52L
12"X36"

SPEED LIMIT 55
R2-1
24"X30"

MIDWAY RD SW RAMP

USH 10 WB/STH 441 SB

USH 10 EB/STH 441 NB

232+00.00 MATCH LINE

238+00.00 MATCH LINE

233EBT

234EBT

235EBT

236EBT

237EBT

50'(TYP)

11'

2'

1'

233EB

234EB

235EB

236EB

237EB

238EB

SIGN

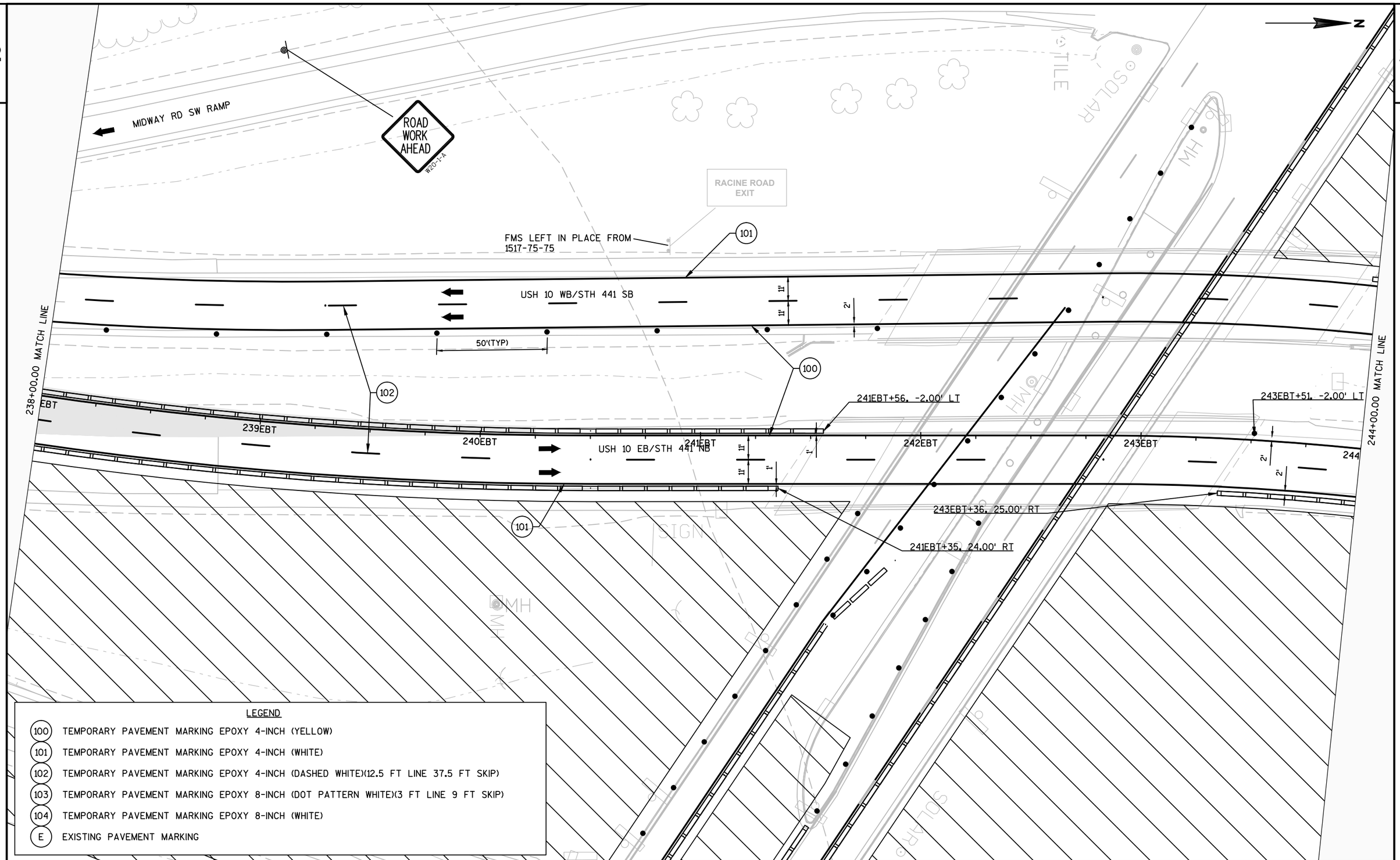
MH

MH

CANADIAN

PROJECT NO:1517-75-72	HWY: STH 441/USH 10	COUNTY: WINNEBAGO	TRAFFIC CONTROL STAGE 1A	SHEET 185	E

2



LEGEND

100	TEMPORARY PAVEMENT MARKING EPOXY 4-INCH (YELLOW)
101	TEMPORARY PAVEMENT MARKING EPOXY 4-INCH (WHITE)
102	TEMPORARY PAVEMENT MARKING EPOXY 4-INCH (DASHED WHITE)(12.5 FT LINE 37.5 FT SKIP)
103	TEMPORARY PAVEMENT MARKING EPOXY 8-INCH (DOT PATTERN WHITE)(3 FT LINE 9 FT SKIP)
104	TEMPORARY PAVEMENT MARKING EPOXY 8-INCH (WHITE)
E	EXISTING PAVEMENT MARKING

PROJECT NO: 1517-75-72	HWY: STH 441/USH 10	COUNTY: WINNEBAGO	TRAFFIC CONTROL STAGE 1A	SHEET 186 E

2

USH 10 WB/STH 441 SB

USH 10 EB/STH 441 NB

244+00.00 MATCH LINE

250+00.00 MATCH LINE

245EBT

246EBT

247EBT

248EBT

249EBT

50'(TYP)

11'

2'

101

102

100

LEGEND

100	TEMPORARY PAVEMENT MARKING EPOXY 4-INCH (YELLOW)
101	TEMPORARY PAVEMENT MARKING EPOXY 4-INCH (WHITE)
102	TEMPORARY PAVEMENT MARKING EPOXY 4-INCH (DASHED WHITE)(12.5 FT LINE 37.5 FT SKIP)
103	TEMPORARY PAVEMENT MARKING EPOXY 8-INCH (DOT PATTERN WHITE)(3 FT LINE 9 FT SKIP)
104	TEMPORARY PAVEMENT MARKING EPOXY 8-INCH (WHITE)
E	EXISTING PAVEMENT MARKING

PROJECT NO: 1517-75-72	HWY: STH 441/USH 10	COUNTY: WINNEBAGO	TRAFFIC CONTROL STAGE 1A	SHEET 187	E

FILE NAME : S:\PDS\C3D\WIS441\15177570_72_77_85\SHEETSPLAN\1517-75-72\026000-TC\NE-15177572-026101-TC1A.DWG
LAYOUT NAME - 026108-TC1A

PLOT DATE : 4/4/2017 8:13 AM PLOT BY : MARTENS, JOHN M PLOT NAME : PLOT SCALE : 1 IN:40 FT

WISDOT/CADDS SHEET 42

2

2

N

USH 10 WB/STH 441 SB

USH 10 EB/STH 441 NB

100

101

102

253EBT

252EBT

251EBT

254EBT

255EBT

256

FMS

50'(TYP)

11'

11'

2'

6'

11'

11'

2'

250+00.00 MATCH LINE

256+00.00 MATCH LINE

EBT

W5-52L
12"X36"

47
APPLETON RD
1/2 MILE
120"X72"

LEGEND

100	TEMPORARY PAVEMENT MARKING EPOXY 4-INCH (YELLOW)
101	TEMPORARY PAVEMENT MARKING EPOXY 4-INCH (WHITE)
102	TEMPORARY PAVEMENT MARKING EPOXY 4-INCH (DASHED WHITE)(12.5 FT LINE 37.5 FT SKIP)
103	TEMPORARY PAVEMENT MARKING EPOXY 8-INCH (DOT PATTERN WHITE)(3 FT LINE 9 FT SKIP)
104	TEMPORARY PAVEMENT MARKING EPOXY 8-INCH (WHITE)
E	EXISTING PAVEMENT MARKING

PROJECT NO: 1517-75-72	HWY: STH 441/USH 10	COUNTY: WINNEBAGO	TRAFFIC CONTROL STAGE 1A	SHEET 188	E

FILE NAME : S:\PDS\C3D\WIS441\15177570_72_77_85\SHEETSPLAN\1517-75-72\026000-TC\NE-15177572-026101-TC1A.DWG
LAYOUT NAME - 026109-TC1A

PLOT DATE : 4/4/2017 8:13 AM PLOT BY : MARTENS, JOHN M PLOT NAME : PLOT SCALE : 1 IN:40 FT

WISDOT/CADDS SHEET 42

2

2

N

101

100

USH 10 WB/STH 441 SB

USH 10 EB/STH 441 NB

11'

11'

6'

2'

11'

11'

2'

258EBT

259EBT

260EBT

261EBT

262

257EBT

EBT

256+00.00 MATCH LINE

262+00.00

102

101

TILE

MH

LEGEND

100	TEMPORARY PAVEMENT MARKING EPOXY 4-INCH (YELLOW)
101	TEMPORARY PAVEMENT MARKING EPOXY 4-INCH (WHITE)
102	TEMPORARY PAVEMENT MARKING EPOXY 4-INCH (DASHED WHITE)(12.5 FT LINE 37.5 FT SKIP)
103	TEMPORARY PAVEMENT MARKING EPOXY 8-INCH (DOT PATTERN WHITE)(3 FT LINE 9 FT SKIP)
104	TEMPORARY PAVEMENT MARKING EPOXY 8-INCH (WHITE)
E	EXISTING PAVEMENT MARKING

PROJECT NO:1517-75-72	HWY: STH 441/USH 10	COUNTY: WINNEBAGO	TRAFFIC CONTROL STAGE 1A	SHEET 189	E

FILE NAME : S:\PDS\C3D\WIS441\15177570_72_77_85\SHEETSPLAN\1517-75-72\026000-TC\NE-15177572-026101-TC1A.DWG
LAYOUT NAME - 026110-TC1A

PLOT DATE : 4/4/2017 8:13 AM PLOT BY : MARTENS, JOHN M PLOT NAME : PLOT SCALE : 1 IN:40 FT

WISDOT/CADDS SHEET 42

LEGEND

(100) TEMPORARY PAVEMENT MARKING EPOXY 4-INCH (YELLOW)
(101) TEMPORARY PAVEMENT MARKING EPOXY 4-INCH (WHITE)
(102) TEMPORARY PAVEMENT MARKING EPOXY 4-INCH (DASHED WHITE)(12.5 FT LINE 37.5 FT SKIP)
(103) TEMPORARY PAVEMENT MARKING EPOXY 8-INCH (DOT PATTERN WHITE)(3 FT LINE 9 FT SKIP)
(104) TEMPORARY PAVEMENT MARKING EPOXY 8-INCH (WHITE)
(E) EXISTING PAVEMENT MARKING

ROAD CLOSED
R11-2
48"X30"

W1-6
48"X24"

USH 10 WB/STH 441 SB

USH 10 EB/STH 441 NB

262+00.00 MATCH LINE

268+00.00 MATCH LINE

263EBT

264EBT

265EBT

266EBT

267EBT

268

262EB

261EB

260EB

259EB

258EB

PROJECT NO: 1517-75-72	HWY: STH 441/USH 10	COUNTY: WINNEBAGO	TRAFFIC CONTROL STAGE 1A	SHEET 190	E

2

LEGEND

100	TEMPORARY PAVEMENT MARKING EPOXY 4-INCH (YELLOW)
101	TEMPORARY PAVEMENT MARKING EPOXY 4-INCH (WHITE)
102	TEMPORARY PAVEMENT MARKING EPOXY 4-INCH (DASHED WHITE)(12.5 FT LINE 37.5 FT SKIP)
103	TEMPORARY PAVEMENT MARKING EPOXY 8-INCH (DOT PATTERN WHITE)(3 FT LINE 9 FT SKIP)
104	TEMPORARY PAVEMENT MARKING EPOXY 8-INCH (WHITE)
E	EXISTING PAVEMENT MARKING

N

2

268+00.00 MATCH LINE

274+00.00 MATCH LINE

50'(TYP)

2'

11'

11'

6'

2'

USH 10 WB/STH 441 SB

USH 10 EB/STH 441 NB

269EBT

270EBT

271EBT

272EBT

273EBT

274

266EB

265EB

264EB

269EB

268EB

267EB

101

103

100

102

PROJECT NO:1517-75-72	HWY: STH 441/USH 10	COUNTY: WINNEBAGO	TRAFFIC CONTROL STAGE 1A	SHEET 191	E

FILE NAME : S:\PDS\C3D\WIS441\15177570_72_77_85\SHEETSPLAN\1517-75-72\026000-TC\NE-15177572-026101-TC1A.DWG
LAYOUT NAME - 026112-TC1A

PLOT DATE : 4/4/2017 8:14 AM PLOT BY : MARTENS, JOHN M PLOT NAME : PLOT SCALE : 1 IN:40 FT

WISDOT/CADDS SHEET 42

2

2

LEGEND

(100) TEMPORARY PAVEMENT MARKING EPOXY 4-INCH (YELLOW)

(101) TEMPOARY PAVEMENT MARKING EPOXY 4-INCH (WHITE)

(102) TEMPOARY PAVEMENT MARKING EPOXY 4-INCH (DASHED WHITE)(12.5 FT LINE 37.5 FT SKIP)

(103) TEMPORARY PAVEMENT MARKING EPOXY 8-INCH (DOT PATTERN WHITE)(3 FT LINE 9 FT SKIP)

(104) TEMPORARY PAVEMENT MARKING EPOXY 8-INCH (WHITE)

(E) EXISTING PAVEMENT MARKING

N

274+00.00 MATCH LINE

280+00.00 MATCH LINE

APPLETON RD NW RAMP

USH 10 WB/STH 441 SB

USH 10 EB/STH 441 NB

APPLETON RD SW RAMP

275EBT 276EBT 277EBT 278EBT 279EBT 280

279EBT+73. 24.97' RT

279EBT+81. 33.23' RT

FMS

E1-1
108"X30"

EXIT 290

47

APPLETON RD

132"X54"

PROJECT NO: 1517-75-72	HWY: STH 441/USH 10	COUNTY: WINNEBAGO	TRAFFIC CONTROL STAGE 1A	SHEET 192	E

LEGEND

100	TEMPORARY PAVEMENT MARKING EPOXY 4-INCH (YELLOW)
101	TEMPORARY PAVEMENT MARKING EPOXY 4-INCH (WHITE)
102	TEMPORARY PAVEMENT MARKING EPOXY 4-INCH (DASHED WHITE)(12.5 FT LINE 37.5 FT SKIP)
103	TEMPORARY PAVEMENT MARKING EPOXY 8-INCH (DOT PATTERN WHITE)(3 FT LINE 9 FT SKIP)
104	TEMPORARY PAVEMENT MARKING EPOXY 8-INCH (WHITE)
E	EXISTING PAVEMENT MARKING

N

2

280+00.00 MATCH LINE

286+00.00 MATCH LINE

W04-1R

APPLETON RD NW RAMP

15'

101

100

104

USH 10 WB/STH 441 SB

6'

11'

11'

280EBT 281EBT 282EBT 283EBT 284EBT 285EBT 286

USH 10 EB/STH 441 NB

11'

11'

2'

102

101

EXIT

E5-1
72"X60"

ROAD CLOSED

R11-2
48"X30"

276EB 277EB 278EB 279EB 280EB 281EB

280EBT+40, 60.74' RT

APPLETON RD SW RAMP

2'

11'

2'

101

285EBT+71, 138.43' RT
MATCH EXISTING

285EBT+19, 140.73' RT
MATCH EXISTING

TILE

TOWER

PROJECT NO:1517-75-72	HWY: STH 441/USH 10	COUNTY: WINNEBAGO	TRAFFIC CONTROL STAGE 1A	SHEET 193	E

FILE NAME : S:\PDS\C3D\WIS441\15177570_72_77_85\SHEETSPLAN\1517-75-72\026000-TC\NE-15177572-026101-TC1A.DWG
LAYOUT NAME - 026114-TC1A
PLOT DATE : 4/4/2017 8:14 AM PLOT BY : MARTENS, JOHN M PLOT NAME : PLOT SCALE : 1 IN:40 FT

2

LEGEND

100	TEMPORARY PAVEMENT MARKING EPOXY 4-INCH (YELLOW)
101	TEMPORARY PAVEMENT MARKING EPOXY 4-INCH (WHITE)
102	TEMPORARY PAVEMENT MARKING EPOXY 4-INCH (DASHED WHITE)(12.5 FT LINE 37.5 FT SKIP)
103	TEMPORARY PAVEMENT MARKING EPOXY 8-INCH (DOT PATTERN WHITE)(3 FT LINE 9 FT SKIP)
104	TEMPORARY PAVEMENT MARKING EPOXY 8-INCH (WHITE)
E	EXISTING PAVEMENT MARKING

ROAD WORK AHEAD
W20-1-A

MATCH EXISTING

APPLETON RD NW RAMP

15'

MATCH EXISTING

N

286+00.00 MATCH LINE

292+00.00 MATCH LINE

USH 10 WB/STH 441 SB

USH 10 EB/STH 441 NB

6'

11'

11'

11'

11'

2'

287EBT

288EBT

289EBT

290EBT

291EBT

288EBT+86. 24.99' RT

282EB

283EB

284EB

285EB

286EB

287EB

STAY IN LANE
R4-9
24"X30"
W01-4aR

TOWER

SIGN

PROJECT NO:1517-75-72	HWY: STH 441/USH 10	COUNTY: WINNEBAGO	TRAFFIC CONTROL STAGE 1A	SHEET 194	E

2

2

LEGEND

(100) TEMPORARY PAVEMENT MARKING EPOXY 4-INCH (YELLOW)

(101) TEMPORARY PAVEMENT MARKING EPOXY 4-INCH (WHITE)

(102) TEMPORARY PAVEMENT MARKING EPOXY 4-INCH (DASHED WHITE)(12.5 FT LINE 37.5 FT SKIP)

(103) TEMPORARY PAVEMENT MARKING EPOXY 8-INCH (DOT PATTERN WHITE)(3 FT LINE 9 FT SKIP)

(104) TEMPORARY PAVEMENT MARKING EPOXY 8-INCH (WHITE)

(E) EXISTING PAVEMENT MARKING

N

W05-52L
12"X36"

SIGN

USH 10 WB/STH 441 SB

USH 10 EB/STH 441 NB

100

101

102

11'

11'

6'

11'

2'

50'(TYP)

292+00.00 MATCH LINE

298+00.00 MATCH LINE

292EBT

293EBT

294EBT

295EBT

296EBT

297EBT

293EBT+27, 11.00' RT

294EBT+22, 26.84' RT

295EBT+22, 25.00' RT

295EBT+22, 30.48' RT

294EBT+21, 32.27' RT

292EBT+36, 26.92' RT

1 THRIE BEAM TO PARAPET

APPLETON RD

289EB

290EB

291EB

292EB

293EB

SIGN

TOWER

PROJECT NO:1517-75-72	HWY: STH 441/USH 10	COUNTY: WINNEBAGO	TRAFFIC CONTROL STAGE 1A	SHEET 195 E

LEGEND

100	TEMPORARY PAVEMENT MARKING EPOXY 4-INCH (YELLOW)
101	TEMPORARY PAVEMENT MARKING EPOXY 4-INCH (WHITE)
102	TEMPORARY PAVEMENT MARKING EPOXY 4-INCH (DASHED WHITE)(12.5 FT LINE 37.5 FT SKIP)
103	TEMPORARY PAVEMENT MARKING EPOXY 8-INCH (DOT PATTERN WHITE)(3 FT LINE 9 FT SKIP)
104	TEMPORARY PAVEMENT MARKING EPOXY 8-INCH (WHITE)
E	EXISTING PAVEMENT MARKING

END ROAD WORK
G20-2A
48"X24"

MIDWAY RD
EXIT CLOSED
USE HWY 47
108"X54"

INSTALL EAST OF WIS 47

FMS

N

APPLETON RD NE RAMP

MATCH EXISTING

500'

SPEED LIMIT 55
W3-5
36"X36"

W21-62-O
30"X48"

WORK ZONE
FINES DOUBLE

W21-62-R
30"X48"

SPEED LIMIT 55
R2-1
24"X30"

101

100

E

MATCH EXISTING

USH 10 WB/STH 441 SB

50'(TYP)

298+00.00 MATCH LINE

295EB+02. -30.48' LT

MATCH EXISTING

299EBT+08. -3.00' LT

299EBT

300EBT

USH 10 EB/STH 441 NB

301EBT

302EBT

303EBT

304EBT

302EBT+45. -9.59' LT

302EBT+36. 0.00'
MATCH EXISTING

302EBT+36. 11.00' RT
MATCH EXISTING

302EBT+37. 22.00' RT
MATCH EXISTING

ROAD CLOSED
R11-2
48"X30"

END ROAD WORK
G20-2A
48"X24"

USH 10 WB/STH 441 SB WARNING SIGNS

ROAD WORK 500 FT
W20-1-D

ROAD WORK 1/2 MILE
W20-1-G

ROAD WORK 1 MILE
W20-1-F

APPLETON RD SE RAMP

PROJECT NO: 1517-75-72	HWY: STH 441/USH 10	COUNTY: WINNEBAGO	TRAFFIC CONTROL STAGE 1A	SHEET	E

FILE NAME : S:\PDS\C3D\WIS441\15177570_72_77_85\SHEETSPLAN\1517-75-72\026000-TC\NE-15177572-026101-TC1A.DWG
LAYOUT NAME - 026117-TC1A

PLOT DATE : 4/4/2017 8:14 AM PLOT BY : MARTENS, JOHN M PLOT NAME : PLOT SCALE : 1 IN:40 FT

2

LEGEND

(100) TEMPORARY PAVEMENT MARKING EPOXY 4-INCH (YELLOW)

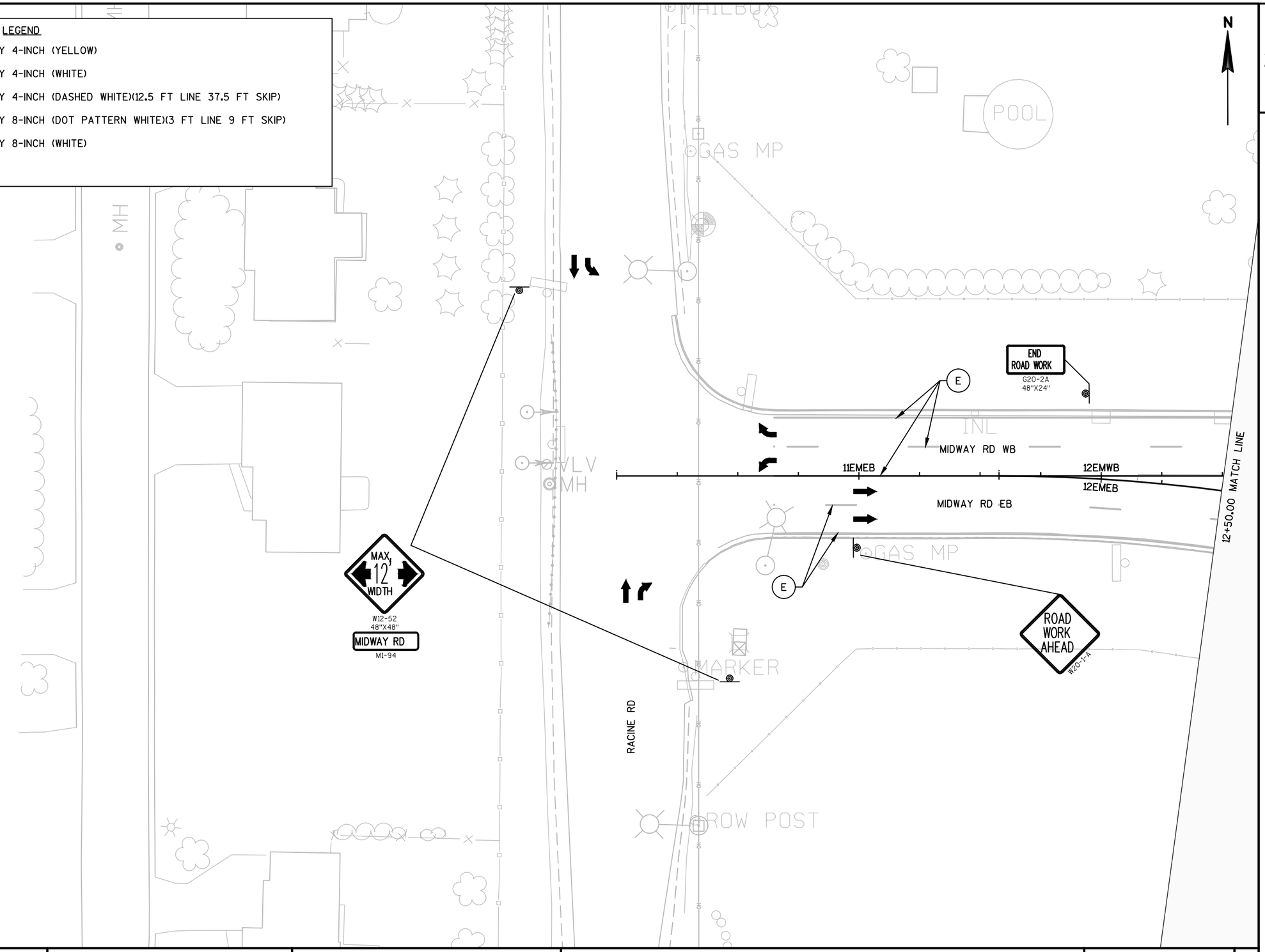
(101) TEMPORARY PAVEMENT MARKING EPOXY 4-INCH (WHITE)

(102) TEMPORARY PAVEMENT MARKING EPOXY 4-INCH (DASHED WHITE)(12.5 FT LINE 37.5 FT SKIP)

(103) TEMPORARY PAVEMENT MARKING EPOXY 8-INCH (DOT PATTERN WHITE)(3 FT LINE 9 FT SKIP)

(104) TEMPORARY PAVEMENT MARKING EPOXY 8-INCH (WHITE)

(E) EXISTING PAVEMENT MARKING



PROJECT NO:1517-75-72	HWY: STH 441/USH 10	COUNTY: WINNEBAGO	TRAFFIC CONTROL STAGE 1A	SHEET 197	E

LEGEND

(100) TEMPORARY PAVEMENT MARKING EPOXY 4-INCH (YELLOW)

(101) TEMPORARY PAVEMENT MARKING EPOXY 4-INCH (WHITE)

(102) TEMPORARY PAVEMENT MARKING EPOXY 4-INCH (DASHED WHITE)(12.5 FT LINE 37.5 FT SKIP)

(103) TEMPORARY PAVEMENT MARKING EPOXY 8-INCH (DOT PATTERN WHITE)(3 FT LINE 9 FT SKIP)

(104) TEMPORARY PAVEMENT MARKING EPOXY 8-INCH (WHITE)

(E) EXISTING PAVEMENT MARKING

15EMWB+80, -24.00' LT

16EMWB+30, -13.00' LT

25'(TYP)

MIDWAY RD WB

14EMWB

15EMWB

16EMWB

17EMWB

18EMWB

13EMWB

13EMEB

14EMEB

15EMEB

16EMEB

17EMEB

18EMEB

MIDWAY RD EB

12+50.00 MATCH LINE

18+50.00 MATCH LINE

LEFT LANE ENDS
W9-1L
30"X30"

W4-2L
36"X36"
25 M.P.H.
W013-1

MIDWAY RD SW RAMP

SOLAR

TILE

HW

N

PROJECT NO: 1517-75-72	HWY: STH 441/USH 10	COUNTY: WINNEBAGO	TRAFFIC CONTROL STAGE 1A	SHEET 198	E

FILE NAME : S:\PDS\C3D\WIS441\15177570_72_77_85\SHEETSPLAN\1517-75-72\026000-TC\NE-15177572-026131-TC1A.DWG
LAYOUT NAME - 026132-TC1A

PLOT DATE : 4/4/2017 8:15 AM PLOT BY : MARTENS, JOHN M PLOT NAME : PLOT SCALE : 1 IN:40 FT

WISDOT/CADDS SHEET 42

LEGEND

100	TEMPORARY PAVEMENT MARKING EPOXY 4-INCH (YELLOW)
101	TEMPORARY PAVEMENT MARKING EPOXY 4-INCH (WHITE)
102	TEMPORARY PAVEMENT MARKING EPOXY 4-INCH (DASHED WHITE)(12.5 FT LINE 37.5 FT SKIP)
103	TEMPORARY PAVEMENT MARKING EPOXY 8-INCH (DOT PATTERN WHITE)(3 FT LINE 9 FT SKIP)
104	TEMPORARY PAVEMENT MARKING EPOXY 8-INCH (WHITE)
E	EXISTING PAVEMENT MARKING

18+50.00 MATCH LINE

24+50.00 MATCH LINE

MIDWAY RD WB

MIDWAY RD EB

19EMWB

20EMWB

21EMWB

22EMWB

23EMWB

24EMWB

18EMEB

19EMEB

20EMEB

21EMEB

22EMEB

23EMEB

24EMEB

18EMEB+95, -1.00' LT

20EMEB+38, 1.17' RT

20EMEB+75, 11.00' RT

20EMEB+25, 25.00' RT

21EMWB+70, 1.00' RT

22EMWB+50, 1.00' RT

23EMWB+95, -25.40'

23+73.76, 13.75' RT

24EMEB+45, 0.00'

25'(TYP)

12'

1"

W1-6
48"X24"

OM-3L
12"X36"

2

N

24+50.00 MATCH LINE

30+50.00 MATCH LINE

LT

LANE CLOSED
R11-2-L
48"X30"

101

26EMEB+18. -11.00' LT

E

W1-6
48"X24"

25EMWB

25EMEB

25'

12'

1'

26EMWB

27EMEB

28EMEB

29EMEB

30EMEB

MIDWAY RD WB

MIDWAY RD EB

25EMEB+44. 13.00' RT

100

END
ROAD WORK
G20-2A
48"X24"

EARL ST

MAX
12'
WIDTH
W12-52
48"X48"

MIDWAY RD
M1-94
WEST
M3-4

ROAD
WORK
AHEAD
W20-1-A

LEGEND

100	TEMPORARY PAVEMENT MARKING EPOXY 4-INCH (YELLOW)
101	TEMPORARY PAVEMENT MARKING EPOXY 4-INCH (WHITE)
102	TEMPORARY PAVEMENT MARKING EPOXY 4-INCH (DASHED WHITE)(12.5 FT LINE 37.5 FT SKIP)
103	TEMPORARY PAVEMENT MARKING EPOXY 8-INCH (DOT PATTERN WHITE)(3 FT LINE 9 FT SKIP)
104	TEMPORARY PAVEMENT MARKING EPOXY 8-INCH (WHITE)
E	EXISTING PAVEMENT MARKING

PROJECT NO:1517-75-72	HWY: STH 441/USH 10	COUNTY: WINNEBAGO	TRAFFIC CONTROL STAGE 1A	SHEET 200	E

FILE NAME : S:\PDS\C3D\WIS441\15177570_72_77_85\SHEETSPLAN\1517-75-72\026000-TC\NE-15177572-026131-TC1A.DWG
LAYOUT NAME - 026134-TC1A

PLOT DATE : 4/4/2017 8:16 AM PLOT BY : MARTENS, JOHN M PLOT NAME : PLOT SCALE : 1 IN:40 FT

2

2

N

30+50.00 MATCH LINE

W04-2R

RIGHT LANE ENDS

W9-1R
30"X30"

ROAD WORK AHEAD

W20-1-A

200' EAST OF CROSS STREET

E

MIDWAY RD WB

MIDWAY RD EB

31EMEB 32EMEB 33EMEB 34EMEB 35EMEB 36EMEB

MH OH GUY WV POSTS SIGN INL

MISSION ST

FATIMA ST

LEGEND

100	TEMPORARY PAVEMENT MARKING EPOXY 4-INCH (YELLOW)
101	TEMPORARY PAVEMENT MARKING EPOXY 4-INCH (WHITE)
102	TEMPORARY PAVEMENT MARKING EPOXY 4-INCH (DASHED WHITE)(12.5 FT LINE 37.5 FT SKIP)
103	TEMPORARY PAVEMENT MARKING EPOXY 8-INCH (DOT PATTERN WHITE)(3 FT LINE 9 FT SKIP)
104	TEMPORARY PAVEMENT MARKING EPOXY 8-INCH (WHITE)
E	EXISTING PAVEMENT MARKINGS

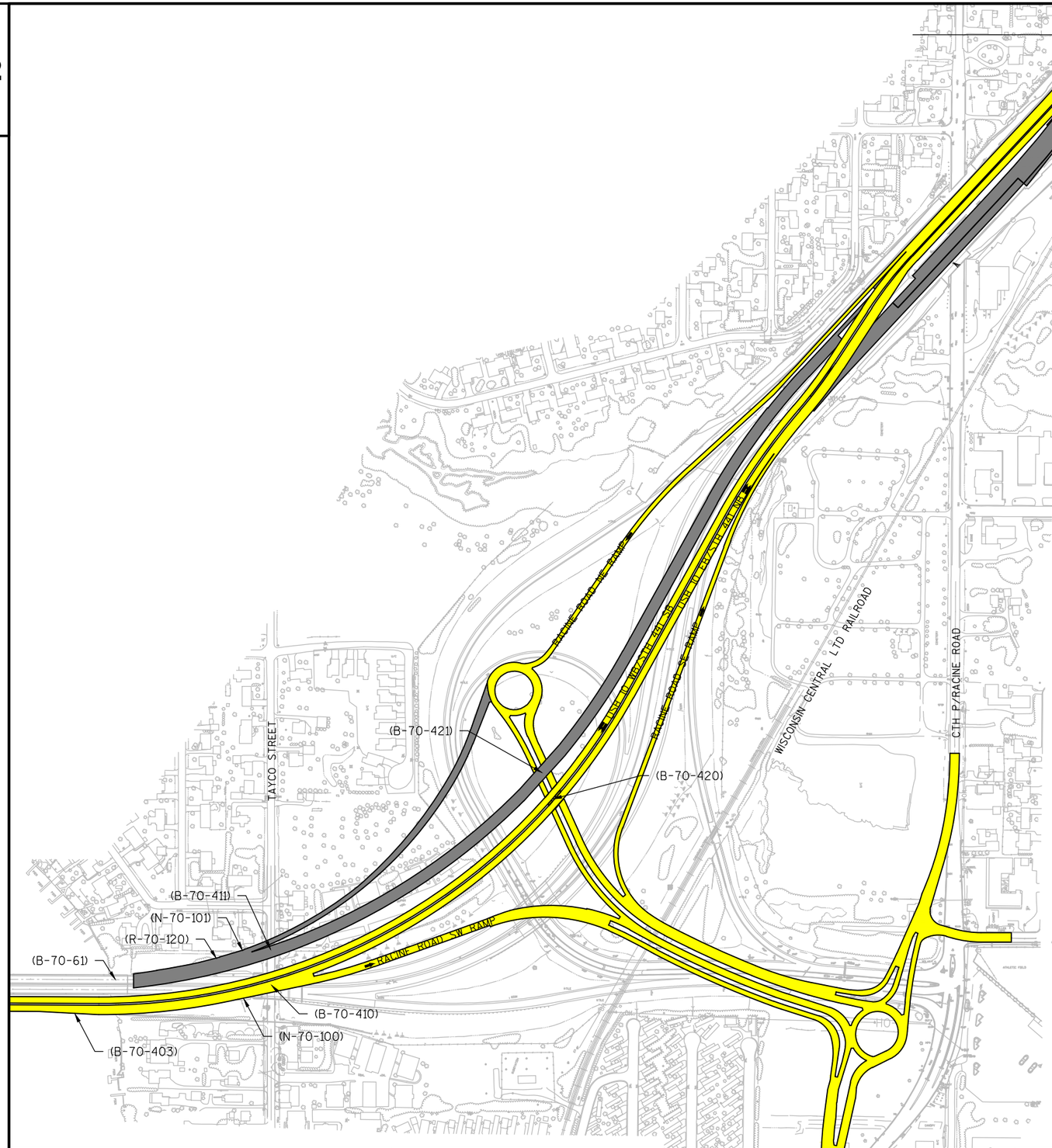
PROJECT NO: 1517-75-72	HWY: STH 441/USH 10	COUNTY: WINNEBAGO	TRAFFIC CONTROL STAGE 1A	SHEET 201	E

FILE NAME : S:\PDS\C3D\WIS441\15177570_72_77_85\SHEETSPLAN\1517-75-72\026000-TC\NE-15177572-026131-TC1A.DWG
LAYOUT NAME - 026135-TC1A

PLOT DATE : 4/4/2017 8:16 AM PLOT BY : MARTENS, JOHN M PLOT NAME : PLOT SCALE : 1 IN:40 FT

WISDOT/CADDS SHEET 42

2



N

SHEET 1 OF 2

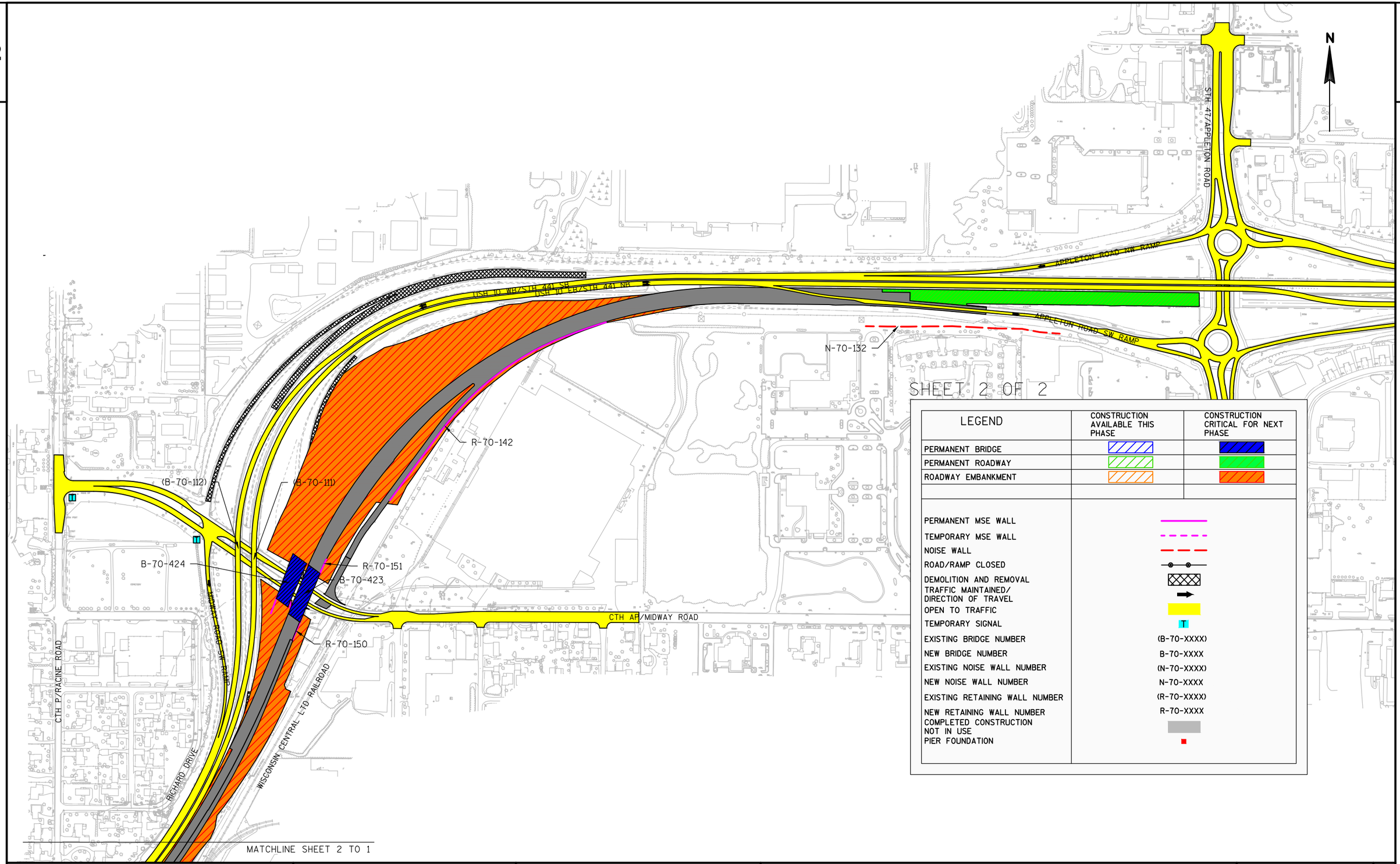
LEGEND	CONSTRUCTION AVAILABLE THIS PHASE	CONSTRUCTION CRITICAL FOR NEXT PHASE
PERMANENT BRIDGE		
PERMANENT ROADWAY		
ROADWAY EMBANKMENT		

PERMANENT MSE WALL	
TEMPORARY MSE WALL	
NOISE WALL	
ROAD/RAMP CLOSED	
DEMOLITION AND REMOVAL	
TRAFFIC MAINTAINED/ DIRECTION OF TRAVEL	
OPEN TO TRAFFIC	
TEMPORARY SIGNAL	T
EXISTING BRIDGE NUMBER	(B-70-XXXX)
NEW BRIDGE NUMBER	B-70-XXXX
EXISTING NOISE WALL NUMBER	(N-70-XXXX)
NEW NOISE WALL NUMBER	N-70-XXXX
EXISTING RETAINING WALL NUMBER	(R-70-XXXX)
NEW RETAINING WALL NUMBER	R-70-XXXX
COMPLETED CONSTRUCTION NOT IN USE	
PIER FOUNDATION	

PROJECT NO: 1517-75-72	HWY: STH 441/USH 10	COUNTY: WINNEBAGO	STAGE CONSTRUCTION 1B - SHEET 1	SHEET 202	E

FILE NAME : S:\PDS\C3D\WIS441\15177570_72_77_85\SHEETSPLAN\1517-75-72\025000-SC\NE-15177572-025151-SC1B.DWG
LAYOUT NAME - 025151-SC1B
PLOT DATE : 4/4/2017 8:16 AM
PLOT BY : MARTENS, JOHN M
PLOT NAME :
PLOT SCALE : 1 IN:400 FT
WISDOT/CADDS SHEET 42

2



SHEET 2 OF 2

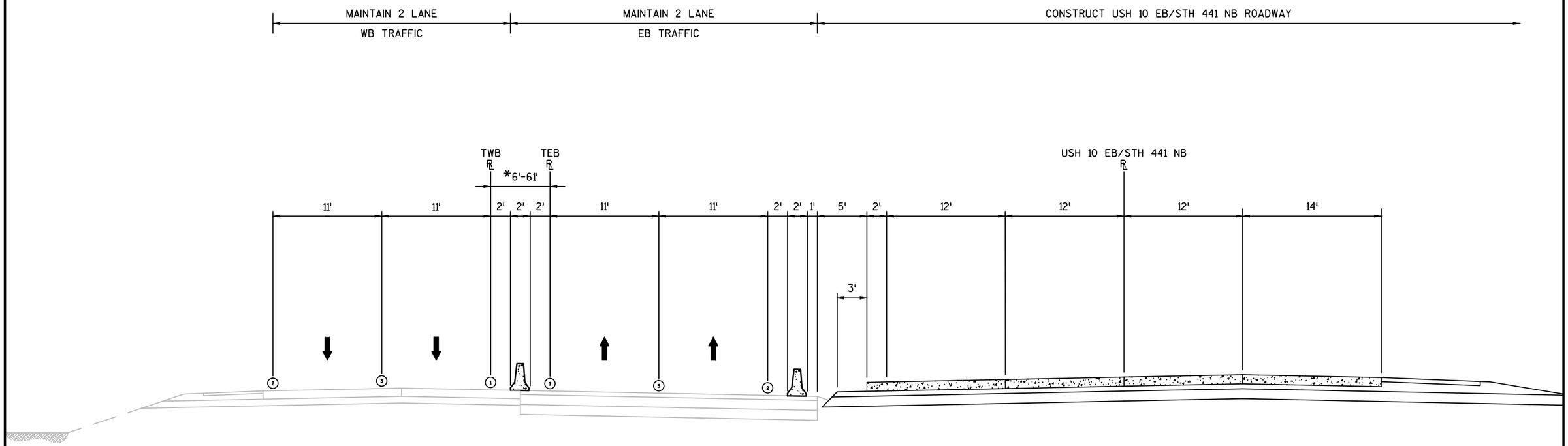
LEGEND	CONSTRUCTION AVAILABLE THIS PHASE	CONSTRUCTION CRITICAL FOR NEXT PHASE
PERMANENT BRIDGE		
PERMANENT ROADWAY		
ROADWAY EMBANKMENT		

PERMANENT MSE WALL	
TEMPORARY MSE WALL	
NOISE WALL	
ROAD/RAMP CLOSED	
DEMOLITION AND REMOVAL	
TRAFFIC MAINTAINED/ DIRECTION OF TRAVEL	
OPEN TO TRAFFIC	
TEMPORARY SIGNAL	T
EXISTING BRIDGE NUMBER	(B-70-XXXX)
NEW BRIDGE NUMBER	B-70-XXXX
EXISTING NOISE WALL NUMBER	(N-70-XXXX)
NEW NOISE WALL NUMBER	N-70-XXXX
EXISTING RETAINING WALL NUMBER	(R-70-XXXX)
NEW RETAINING WALL NUMBER	R-70-XXXX
COMPLETED CONSTRUCTION NOT IN USE	
PIER FOUNDATION	

PROJECT NO: 1517-75-72	HWY: STH 441/USH 10	COUNTY: WINNEBAGO	STAGE CONSTRUCTION 1B - SHEET 2	SHEET 203	E

FILE NAME : S:\PDS\C3D\WIS441\15177570_72_77_85\SHEETSPLAN\1517-75-72\025000-SC\NE-15177572-025151-SC1B.DWG
LAYOUT NAME - 025152-SC1B
PLOT DATE : 4/4/2017 8:16 AM
PLOT BY : MARTENS, JOHN M
PLOT NAME :
PLOT SCALE : 1 IN:400 FT
WISDOT/CADDS SHEET 42

2



TYPICAL SECTION - TRAFFIC CONTROL STAGE 1B
TEMPORARY USH 10/STH 441
STA 269EBT+61.06 TO STA 305EBT+28.46

NOTES

REFER TO TRAFFIC CONTROL PLAN SHEETS, FOR CHANGES BETWEEN TRAFFIC CONTROL DRUMS AND CONCRETE BARRIER TEMPORARY PRECAST.

*STA 294EBT+26.75 TO STA 305+28.46 TAPER 6' TO 61'

2

2

N

PT: 269+61.06

TILE

USH 10 WB/STH 441 SB

USH 10 EB/STH 441 NB

269EBT

271EBT

273EBT

273EBT+08. 22.00' RT

49

274+00.00 MATCH LINE

APPLETON RD SW RAMP

2'

11'

2'

FMS

271EBT+37. 22.00' RT

105

R1319'

273EBT+61. 26.00' RT

267EB

269EB

266EB

265EB

264EB

E1-1
108"X30"

EXIT 290

47

APPLETON RD

132"X54"

WORK AREA

ROAD CLOSED

R11-2
48"X30"

TILE SIGN

273EBT+76. 46.90' RT

LEGEND

46	TEMPORARY PAVEMENT MARKING REMOVABLE TAPE 4-INCH (WHITE)
105	TEMPORARY PAVEMENT MARKING REMOVABLE TAPE 8-INCH (DOT PATTERN WHITE)(3 FT LINE 9 FT SKIP)
49	TEMPORARY PAVEMENT MARKING REMOVABLE TAPE 8-INCH (WHITE)

PROJECT NO: 1517-75-72	HWY: STH 441/USH 10	COUNTY: WINNEBAGO	TRAFFIC CONTROL STAGE 1B	SHEET 205	E

2

2

N

274+00.00 MATCH LINE

280+00.00 MATCH LINE

SIGN

TILE

274EBT+27. 22.01' RT

EXIT

E5-1
72"X60"

APPLETON RD NW RAMP

USH 10 WB/STH 441 SB

USH 10 EB/STH 441 NB

274EBT+27. 42.01' RT

277EBT+06. 22.00' RT

278EBT+88. 22.00' RT

279EBT+45. 24.00' RT

CC

276EBT+01. 78.26' RT

277EBT+06. 57.56' RT

ROAD CLOSED

R11-2
48"X30"

R1341'

11'

2'

2'

2'

1271ASW

1272ASW

1273ASW

1274ASW

1275ASW

APPLETON RD SW RAMP

50'

274EBT+65. 60.22' RT

278EBT+25. 82.08' RT

276EBT+74. 84.08' RT

270EB

271EB

272EB

273EB

274EB

275EB

275EBT

277EBT

279EBT

LEGEND

46	TEMPORARY PAVEMENT MARKING REMOVABLE TAPE 4-INCH (WHITE)
105	TEMPORARY PAVEMENT MARKING REMOVABLE TAPE 8-INCH (DOT PATTERN WHITE)(3 FT LINE 9 FT SKIP)
49	TEMPORARY PAVEMENT MARKING REMOVABLE TAPE 8-INCH (WHITE)

PROJECT NO: 1517-75-72	HWY: STH 441/USH 10	COUNTY: WINNEBAGO	TRAFFIC CONTROL STAGE 1B	SHEET 206	E

LEGEND

(46) TEMPORARY PAVEMENT MARKING REMOVABLE TAPE 4-INCH (WHITE)

(E) EXISTING PAVEMENT MARKING

N

ROAD WORK AHEAD W20-1-A

TILE

APPLETON RD NW RAMP

TILE

280+00.00 MATCH LINE

286+00.00 MATCH LINE

USH 10 WB/STH 441 SB

280EBT 281EBT 282EBT 283EBT 284EBT 285EBT

USH 10 EB/STH 441 NB

276EB 277EB 278EB 279EB 280EB 281EB

TILE

1276ASW

1277ASW

1278ASW

1279ASW

1279ASW+01. 8.99' RT

1280ASW

1281ASW

2'

12'

APPLETON RD SW RAMP

25'

46

1278ASW+50. 12.00' RT
MATCH EXISTING

1279ASW+61. 24.01' RT
MATCH EXISTING

E

TOWER

PROJECT NO: 1517-75-72	HWY: STH 441/USH 10	COUNTY: WINNEBAGO	TRAFFIC CONTROL STAGE 1B	SHEET 207	E

2

2

APPLETON RD NW RAMP

N

MWEL

MWEL

286+00.00 MATCH LINE

USH 10 WB/STH 441 SB

287EBT

289EBT

291EBT

USH 10 EB/STH 441 NB

282EB

283EB

284EB

285EB

286EB

287EB

1282ASW

1283ASW

1284ASW

1285ASW

1286ASW

1287ASW

1288AS

APPLETON RD SW RAMP

SIGN

END
ROAD WORK

G20-2A
48"X24"

E

LEGEND

E EXISTING PAVEMENT MARKING

TOWER

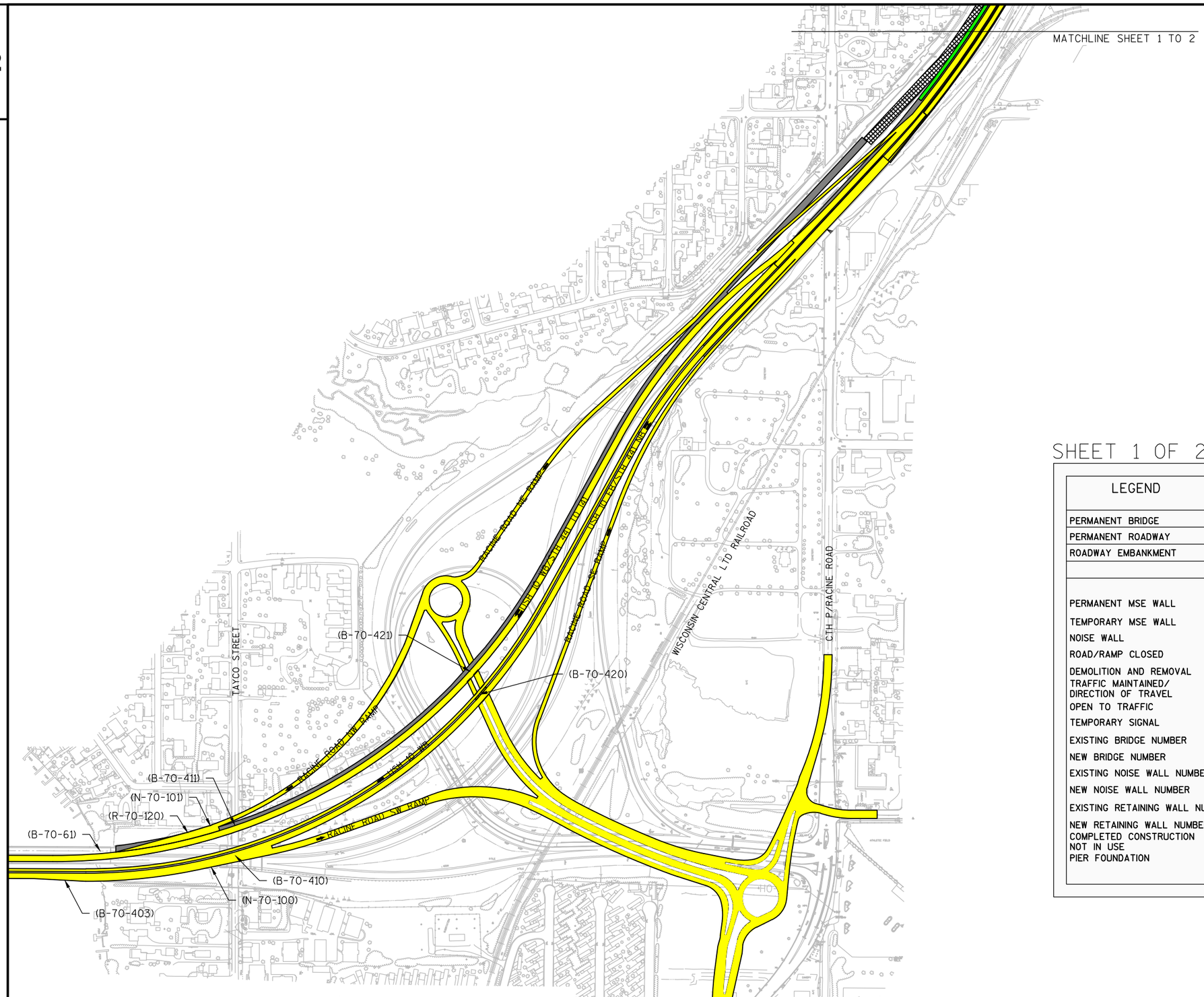
PROJECT NO: 1517-75-72	HWY: STH 441/USH 10	COUNTY: WINNEBAGO	TRAFFIC CONTROL STAGE 1B	SHEET 208	E

FILE NAME : S:\PDS\C3D\WIS441\15177570_72_77_85\SHEETSPLAN\1517-75-72\026000-TC\NE-15177572-026151-TC1B.DWG
LAYOUT NAME - 026154-TC1B

PLOT DATE : 4/4/2017 8:18 AM PLOT BY : MARTENS, JOHN M PLOT NAME : PLOT SCALE : 1 IN:40 FT

WISDOT/CADDS SHEET 42

2



SHEET 1 OF 2

LEGEND	CONSTRUCTION AVAILABLE THIS PHASE	CONSTRUCTION CRITICAL FOR NEXT PHASE
PERMANENT BRIDGE		
PERMANENT ROADWAY		
ROADWAY EMBANKMENT		

PERMANENT MSE WALL	
TEMPORARY MSE WALL	
NOISE WALL	
ROAD/RAMP CLOSED	
DEMOLITION AND REMOVAL	
TRAFFIC MAINTAINED/ DIRECTION OF TRAVEL	
OPEN TO TRAFFIC	
TEMPORARY SIGNAL	T
EXISTING BRIDGE NUMBER	(B-70-XXXX)
NEW BRIDGE NUMBER	B-70-XXXX
EXISTING NOISE WALL NUMBER	(N-70-XXXX)
NEW NOISE WALL NUMBER	N-70-XXXX
EXISTING RETAINING WALL NUMBER	(R-70-XXXX)
NEW RETAINING WALL NUMBER	R-70-XXXX
COMPLETED CONSTRUCTION NOT IN USE	
PIER FOUNDATION	

PROJECT NO: 1517-75-72	HWY: STH 441/USH 10	COUNTY: WINNEBAGO	STAGE CONSTRUCTION 2A - SHEET 1	SHEET 209	E

2

N

STH 47/APPLETON ROAD

APPLETON ROAD NW RAMP

USH 10 WB/STH 441 SB

USH 10 EB/STH 441 NB

APPLETON ROAD SW RAMP

N-70-132

R-70-142

(B-70-112)

(B-70-111)

R-70-151

B-70-423

B-70-424

CTH AP/MIDWAY ROAD

R-70-150

CTH P/RACINE ROAD

WISCONSIN CENTRAL LTD RAILROAD

MATCHLINE SHEET 2 TO 1

SHEET 2 OF 2

LEGEND	CONSTRUCTION AVAILABLE THIS PHASE	CONSTRUCTION CRITICAL FOR NEXT PHASE
PERMANENT BRIDGE		
PERMANENT ROADWAY		
ROADWAY EMBANKMENT		
PERMANENT MSE WALL		
TEMPORARY MSE WALL		
NOISE WALL		
ROAD/RAMP CLOSED		
DEMOLITION AND REMOVAL		
TRAFFIC MAINTAINED/ DIRECTION OF TRAVEL		
OPEN TO TRAFFIC		
TEMPORARY SIGNAL	T	
EXISTING BRIDGE NUMBER	(B-70-XXXX)	
NEW BRIDGE NUMBER	B-70-XXXX	
EXISTING NOISE WALL NUMBER	(N-70-XXXX)	
NEW NOISE WALL NUMBER	N-70-XXXX	
EXISTING RETAINING WALL NUMBER	(R-70-XXXX)	
NEW RETAINING WALL NUMBER	R-70-XXXX	
COMPLETED CONSTRUCTION NOT IN USE		
PIER FOUNDATION		

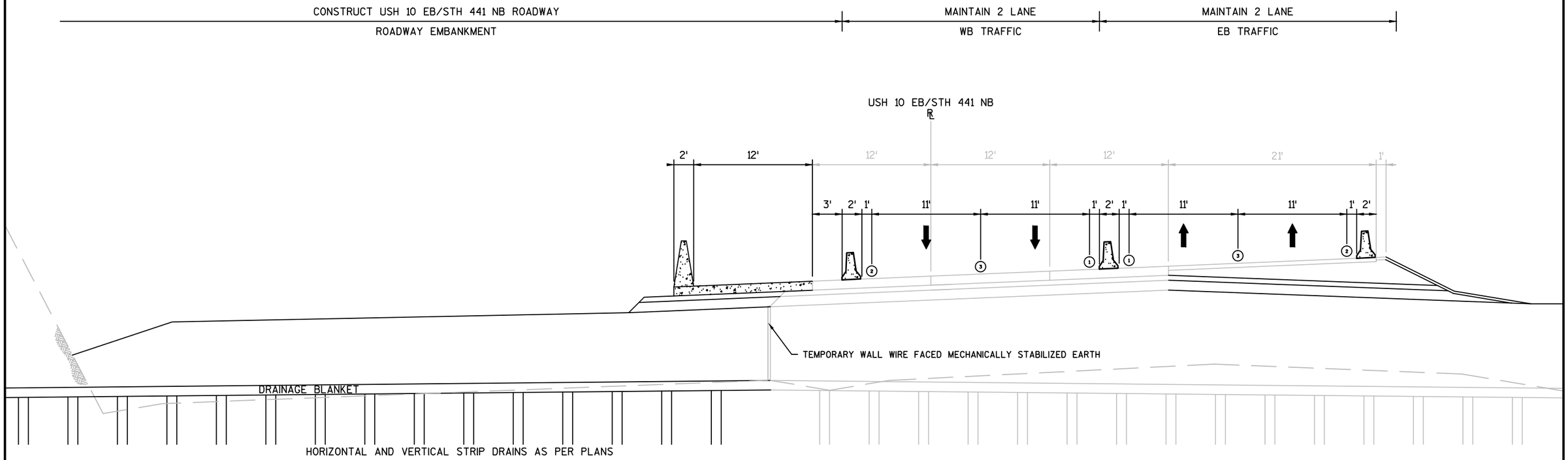
PROJECT NO: 1517-75-72	HWY: STH 441/USH 10	COUNTY: WINNEBAGO	STAGE CONSTRUCTION 2A - SHEET 2	SHEET 210	E

FILE NAME : S:\PDS\C3D\WIS441\15177570_72_77_85\SHEETSPLAN\1517-75-72\025000-SC\NE-15177572-025201-SC2A.DWG
LAYOUT NAME - 025202-SC2A

PLOT DATE : 4/4/2017 8:18 AM PLOT BY : MARTENS, JOHN M PLOT NAME : PLOT SCALE : 1 IN:400 FT

WISDOT/CADDS SHEET 42

2



TYPICAL SECTION - TRAFFIC CONTROL STAGE 2A
USH 10/STH 441

STA 225EB+60.00 TO STA 233EB+85.00

NOTES

REFER TO TRAFFIC CONTROL PLAN SHEETS, FOR CHANGES BETWEEN TRAFFIC CONTROL DRUMS AND CONCRETE BARRIER TEMPORARY PRECAST.

2

LEGEND

(101) TEMPORARY PAVEMENT MARKING EPOXY 4-INCH (WHITE)

(104) TEMPORARY PAVEMENT MARKING EPOXY 8-INCH (WHITE)

(E) EXISTING PAVEMENT MARKING

N

LANE CLOSED
R11-2-L
48"X30"

E

50' TYP

R/L USH 10 EB

202EB 203EB 204EB 205EB 206EB 207EB 208

USH 10 WB

208+00.00 MATCH LINE

USH 10 EB/STH 441 NB

104

207EB+34. 48.00' RT

205EB+67. 65.01' RT
MATCH EXISTING

101

15'

R1894'

R1894'

RACINE RD SE RAMP

205EB+69. 79.85' RT
MATCH EXISTING

ROAD WORK AHEAD
W20-1-A

2

PROJECT NO:1517-75-72	HWY: STH 441/USH 10	COUNTY: WINNEBAGO	TRAFFIC CONTROL STAGE 2A	SHEET 212	E

2

LEGEND

(100) TEMPORARY PAVEMENT MARKING EPOXY 4-INCH (YELLOW)
(101) TEMPORARY PAVEMENT MARKING EPOXY 4-INCH (WHITE)
(102) TEMPORARY PAVEMENT MARKING EPOXY 4-INCH (DASHED WHITE)(12.5 FT LINE 37.5 FT SKIP)
(103) TEMPORARY PAVEMENT MARKING EPOXY 8-INCH (DOT PATTERN WHITE)(3 FT LINE 9 FT SKIP)
(104) TEMPORARY PAVEMENT MARKING EPOXY 8-INCH (WHITE)
(E) EXISTING PAVEMENT MARKING

END ROAD WORK
G20-2A
48"X24"

211EB+69, -116.92' LT
RACINE RD NE RAMP
213EB+37, -98.67' LT
211EB+55, -100.95' LT
213EB+24, -84.67' LT
212EB+01, -97.35' LT
213EB+24, -81.67' LT
213EB+24, -74.67' LT
213EB+24, -71.67' LT
213EB+24, -60.67' LT
213EB+24, -49.67' LT
211EB+22, -44.63' LT
USH 10 WB/STH 441 SB TO I-41
LANE CLOSED
R11-2-L
48"X30"
50' TYP
WEST SOUTH
10 441
212EB+17, -25.00' LT
212EB+49, -25.00' LT
214EB+00, -22.00' LT
R/L USH 10 EB
USH 10 WB
212EB+00, -11.00' LT
209EB
210EB
211EB
212EB
213EB
USH 10 EB/STH 441 NB
212EB+17, 0.00'
212EB+17, 6.00' RT
210EB+45, 28.00' RT
RACINE RD SE RAMP
213EB+16, 35.00' RT
208+00.00 MATCH LINE
214+00.00 MATCH LINE
R1894'
12'
11'
6'
2'
RIGHT LANE ENDS
W09-1R
W4-2R
36"X36"
TILE
FILE

PROJECT NO: 1517-75-72	HWY: STH 441/USH 10	COUNTY: WINNEBAGO	TRAFFIC CONTROL STAGE 2A	SHEET 213	E

2

LEGEND

100	TEMPORARY PAVEMENT MARKING EPOXY 4-INCH (YELLOW)
101	TEMPORARY PAVEMENT MARKING EPOXY 4-INCH (WHITE)
102	TEMPORARY PAVEMENT MARKING EPOXY 4-INCH (DASHED WHITE)(12.5 FT LINE 37.5 FT SKIP)
103	TEMPORARY PAVEMENT MARKING EPOXY 8-INCH (DOT PATTERN WHITE)(3 FT LINE 9 FT SKIP)
104	TEMPORARY PAVEMENT MARKING EPOXY 8-INCH (WHITE)
E	EXISTING PAVEMENT MARKING

214+00.00 MATCH LINE

220+00.00 MATCH LINE

RACINE RD NE RAMP

RACINE RD SE RAMP

USH 10 WB

USH 10 EB/STH 441 NB

USH 10 WB/STH 441 SB TO I-41

R/L USH 10 EB

CC

214EB+00. 6.00' RT

216EB+58. 11.75' RT

216EB+62. -23.40' LT

216EB+76. -32.33' LT

216EB+48. -5.47' LT

217EB+70. 13.00' RT

217EB+70. 35.00' RT

218EB+08. -4.00' LT

218EB+60. -64.77' LT

219EB+85. 35.00' RT

215EB

216EB

217EB

218EB

219EB

R2211'

R2191'

R5006'

50' TYP

TO 41

EXIT

INL

MH

W

PROJECT NO:1517-75-72	HWY: STH 441/USH 10	COUNTY: WINNEBAGO	TRAFFIC CONTROL STAGE 2A	SHEET 214	E

FILE NAME : S:\PDS\C3D\WIS441\15177570_72_77_85\SHEETSPLAN\1517-75-72\026000-TC\NE-15177572-026201-TC2A.DWG
LAYOUT NAME - 026203-TC2A

PLOT DATE : 4/4/2017 8:21 AM PLOT BY : MARTENS, JOHN M PLOT NAME : PLOT SCALE : 1 IN:40 FT

2

2

LEGEND

(100) TEMPORARY PAVEMENT MARKING EPOXY 4-INCH (YELLOW)

(101) TEMPORARY PAVEMENT MARKING EPOXY 4-INCH (WHITE)

(102) TEMPORARY PAVEMENT MARKING EPOXY 4-INCH (DASHED WHITE)(12.5 FT LINE 37.5 FT SKIP)

(103) TEMPORARY PAVEMENT MARKING EPOXY 8-INCH (DOT PATTERN WHITE)(3 FT LINE 9 FT SKIP)

(104) TEMPORARY PAVEMENT MARKING EPOXY 8-INCH (WHITE)

(E) EXISTING PAVEMENT MARKING

220+00.00 MATCH LINE

226+00.00 MATCH LINE

41

SECOND RIGHT

96"X54"

EXIT

E5-1

72"X60"

P

RIGHT LANE FOR EXIT ONLY

220EB+80. -60.43' LT

221EB+97. -34.99' LT

221EB+97. -14.99' LT

222EB

222EB+00. 46.00' RT

RACINE RD NE RAMP

CC

USH 10 WB/STH 441 SB

USH 10 EB/STH 441 NB

R/L USH 10 EB

223EB+21. -17.33' LT

223EB 223EB+68. 16.25' RT

223EB+67. 27.24' RT

223EB+67. 38.23' RT

224EB+17. -9.59' LT

224EB+16. 1.40' RT

224EB

224EB+16. 12.38' RT

224EB+98. -6.71' LT

225EB+05. -8.52' LT

225EB+60. -6.00' LT

FMS

225EB

225EB+60. 5.00' RT

225EB+60. 16.00' RT

225EB+60. 20.00' RT

225EB+60. 31.00' RT

225EB+23. 41.86' RT

225EB+60. 42.00' RT

SIGN

SIGN

MH

NATIONAL

PROJECT NO:1517-75-72	HWY: STH 441/USH 10	COUNTY: WINNEBAGO	TRAFFIC CONTROL STAGE 2A	SHEET 215	E

2

2

LEGEND

100	TEMPORARY PAVEMENT MARKING EPOXY 4-INCH (YELLOW)
101	TEMPORARY PAVEMENT MARKING EPOXY 4-INCH (WHITE)
102	TEMPORARY PAVEMENT MARKING EPOXY 4-INCH (DASHED WHITE)(12.5 FT LINE 37.5 FT SKIP)
103	TEMPORARY PAVEMENT MARKING EPOXY 8-INCH (DOT PATTERN WHITE)(3 FT LINE 9 FT SKIP)
104	TEMPORARY PAVEMENT MARKING EPOXY 8-INCH (WHITE)
E	EXISTING PAVEMENT MARKING

226+00.00 MATCH LINE

232+00.00 MATCH LINE

227EB

228EB

229EB

230EB

231EB

R4309'

R4313'

100

101

102

USH 10 WB/STH 441 SB

R/L USH 10 EB

USH 10 EB/STH 441 NB

FMS

MIDWAY RD
EXIT CLOSED
USE HWY 47

108"X54"

MH

INL

POST

CANADIAN NATIONAL

PROJECT NO: 1517-75-72	HWY: STH 441/USH 10	COUNTY: WINNEBAGO	TRAFFIC CONTROL STAGE 2A	SHEET 216	E

2

LEGEND

100	TEMPORARY PAVEMENT MARKING EPOXY 4-INCH (YELLOW)
101	TEMPORAY PAVEMENT MARKING EPOXY 4-INCH (WHITE)
102	TEMPORARY PAVEMENT MARKING EPOXY 4-INCH (DASHED WHITE)(12.5 FT LINE 37.5 FT SKIP)
103	TEMPORARY PAVEMENT MARKING EPOXY 8-INCH (DOT PATTERN WHITE)(3 FT LINE 9 FT SKIP)
104	TEMPORARY PAVEMENT MARKING EPOXY 8-INCH (WHITE)
E	EXISTING PAVEMENT MARKING

N

EXIT

E5-1
72"X60"

232+00.00 MATCH LINE

238+00.00 MATCH LINE

233EB+85, -6.00' LT

236EB+06, -9.65' LT

R/L USH 10 EB

237EB+50, -12.00' LT

237EB+50, -1.00' LT

233EB

234EB

235EB

236EB

237EB

236EB+07, 1.34' RT

237EB+50, 10.00' RT

236EB+07, 12.33' RT

237EB+50, 14.00' RT

236EB+07, 16.33' RT

237EB+51, 25.00' RT

236EB+07, 27.33' RT

237EB+51, 36.00' RT

236EB+08, 38.32' RT

102

101

100

USH 10 WB/STH 441 SB

USH 10 EB/STH 441 NB

233EB+85, 5.00' RT

233EB+85, 16.00' RT

233EB+85, 20.00' RT

233EB+85, 31.00' RT

233EB+85, 42.00' RT

11'

4'

1'

R2632'

R2636'

SIGN

POST

MH

CANADIAN NATIONAL

PROJECT NO:1517-75-72	HWY: STH 441/USH 10	COUNTY: WINNEBAGO	TRAFFIC CONTROL STAGE 2A	SHEET 217	E

FILE NAME : S:\PDS\C3D\WIS441\15177570_72_77_85\SHEETSPLAN\1517-75-72\026000-TC\NE-15177572-026201-TC2A.DWG
LAYOUT NAME - 026206-TC2A

PLOT DATE : 4/4/2017 8:21 AM PLOT BY : MARTENS, JOHN M PLOT NAME : PLOT SCALE : 1 IN:40 FT

2

LEGEND

100	TEMPORARY PAVEMENT MARKING EPOXY 4-INCH (YELLOW)
101	TEMPORARY PAVEMENT MARKING EPOXY 4-INCH (WHITE)
102	TEMPORARY PAVEMENT MARKING EPOXY 4-INCH (DASHED WHITE)(12.5 FT LINE 37.5 FT SKIP)
103	TEMPORARY PAVEMENT MARKING EPOXY 8-INCH (DOT PATTERN WHITE)(3 FT LINE 9 FT SKIP)
104	TEMPORARY PAVEMENT MARKING EPOXY 8-INCH (WHITE)
E	EXISTING PAVEMENT MARKING

238+00.00 MATCH LINE

239EB+50. -24.00' LT

240EB+50. -25.00' LT

240EB+74. -25.00' LT

242EB+74. -26.00' LT

243EB+50. -26.00' LT

THRIE BEAM CONNECTION & HEIGHT TRANSITION WEDGE

MIDWAY RD EB TRAFFIC CONTROL SHOWN ELSEWHERE

48"W 6 48"X24"

USH 10 WB/STH 441 SB

R/L USH 10 EB

240EB+50. -11.00' LT

240EB+50. 0.00'

239EB

240EB

241EB

242EB

243EB

244EB

USH 10 EB/STH 441 NB

240EB+50. 6.00' RT

240EB+50. 17.00' RT

240EB+51. 28.00' RT

239EB+50. 37.00' RT

238EB+50. 37.50' RT

CC

11'

11'

2'

6'

11'

11'

244+00.00 MATCH LINE

THRIE BEAM CONNECTION & HEIGHT TRANSITION WEDGE

MIDWAY RD WB TRAFFIC CONTROL SHOWN ELSEWHERE

243MNE

242MNE+59. 0.00'

244MNE

15'

CANADIAN NATIONAL

PROJECT NO: 1517-75-72	HWY: STH 441/USH 10	COUNTY: WINNEBAGO	TRAFFIC CONTROL STAGE 2A	SHEET 218	E

FILE NAME : S:\PDS\C3D\WIS441\15177570_72_77_85\SHEETSPLAN\1517-75-72\026000-TC\NE-15177572-026201-TC2A.DWG
LAYOUT NAME - 026207-TC2A

PLOT DATE : 4/4/2017 8:22 AM PLOT BY : MARTENS, JOHN M PLOT NAME : PLOT SCALE : 1 IN:40 FT

WISDOT/CADDS SHEET 42

2

LEGEND

100	TEMPORARY PAVEMENT MARKING EPOXY 4-INCH (YELLOW)
101	TEMPORARY PAVEMENT MARKING EPOXY 4-INCH (WHITE)
102	TEMPORARY PAVEMENT MARKING EPOXY 4-INCH (DASHED WHITE)(12.5 FT LINE 37.5 FT SKIP)
103	TEMPORARY PAVEMENT MARKING EPOXY 8-INCH (DOT PATTERN WHITE)(3 FT LINE 9 FT SKIP)
104	TEMPORARY PAVEMENT MARKING EPOXY 8-INCH (WHITE)
E	EXISTING PAVEMENT MARKING

41
1/2 MILE

72"X54"
RIGHT LANE EXIT ONLY
R3-33
30"X18"

FMS

USH 10 WB/STH 441 SB

R/L USH 10 EB

USH 10 EB/STH 441 NB

244+00.00 MATCH LINE

245EB

246EB

247EB

248EB

249EB

250EB

250+00.00 MATCH LINE

50' (TYP)

2'

11'

11'

6'

11'

11'

2'

LANE CLOSED
R11-2-L
48"X30"

47
APPLETON RD
1/2 MILE
120"X72"

R/L MIDWAY RD (MNE)

244MNE+50. 0.00'

245MNE

246MNE

247MNE

248MNE

249MNE

250MNE

MIDWAY RD NE RAMP

15'

244MNE+50. 15.00' RT

PROJECT NO:1517-75-72	HWY: STH 441/USH 10	COUNTY: WINNEBAGO	TRAFFIC CONTROL STAGE 2A	SHEET 219	E

2

2

LEGEND

(100) TEMPORARY PAVEMENT MARKING EPOXY 4-INCH (YELLOW)
(101) TEMPORARY PAVEMENT MARKING EPOXY 4-INCH (WHITE)
(102) TEMPORARY PAVEMENT MARKING EPOXY 4-INCH (DASHED WHITE)(12.5 FT LINE 37.5 FT SKIP)
(103) TEMPORARY PAVEMENT MARKING EPOXY 8-INCH (DOT PATTERN WHITE)(3 FT LINE 9 FT SKIP)
(104) TEMPORARY PAVEMENT MARKING EPOXY 8-INCH (WHITE)
(E) EXISTING PAVEMENT MARKING

N

USH 10 WB/STH 441 SB
USH 10 EB/STH 441 NB
11'
11'
11'
11'
2'
6'
251EB
252EB
253EB
254EB
255EB
250+00.00 MATCH LINE
256+00.00 MATCH LINE
254EB+59. 28.00' RT
R/L MIDWAY RD (MNE)
R1330'
R1330'
254MNE
255MNE
256
254MNE+61. 1.81' RT
253MNE
251MNE+57. 0.00'
252MNE
MIDWAY RD NE RAMP
15'
251MNE
W04-3R
48"X48"
MH
100
101
102
103
104

PROJECT NO: 1517-75-72	HWY: STH 441/USH 10	COUNTY: WINNEBAGO	TRAFFIC CONTROL STAGE 2A	SHEET 220	E

FILE NAME : S:\PDS\C3D\WIS441\15177570_72_77_85\SHEETSPLAN\1517-75-72\026000-TC\NE-15177572-026201-TC2A.DWG
LAYOUT NAME - 026209-TC2A
PLOT DATE : 4/4/2017 8:22 AM PLOT BY : MARTENS, JOHN M PLOT NAME : PLOT SCALE : 1 IN:40 FT

WISDOT/CADDS SHEET 42

2

2

LEGEND

100	TEMPORARY PAVEMENT MARKING EPOXY 4-INCH (YELLOW)
101	TEMPORARY PAVEMENT MARKING EPOXY 4-INCH (WHITE)
102	TEMPORARY PAVEMENT MARKING EPOXY 4-INCH (DASHED WHITE)(12.5 FT LINE 37.5 FT SKIP)
103	TEMPORARY PAVEMENT MARKING EPOXY 8-INCH (DOT PATTERN WHITE)(3 FT LINE 9 FT SKIP)
104	TEMPORARY PAVEMENT MARKING EPOXY 8-INCH (WHITE)
E	EXISTING PAVEMENT MARKING

N

USH 10 WB/STH 441 SB

USH 10 EB/STH 441 NB

MIDWAY RD NE RAMP

R/L USH 10 EB

R/L MIDWAY RD (MNE)

256+00.00 MATCH LINE

262+00.00 MATCH LINE

257EB

258EB

259EB

260EB

261EB

257MNE

258MNE

257MNE+48. 15.00' RT

258MNE+52. 3.95' RT

258MNE+52. 14.95' RT

R1330'

R1326'

11'

2'

6'

9'

PROJECT NO:1517-75-72	HWY: STH 441/USH 10	COUNTY: WINNEBAGO	TRAFFIC CONTROL STAGE 2A	SHEET 221	E

LEGEND

(100) TEMPORARY PAVEMENT MARKING EPOXY 4-INCH (YELLOW)

(101) TEMPORARY PAVEMENT MARKING EPOXY 4-INCH (WHITE)

(102) TEMPORARY PAVEMENT MARKING EPOXY 4-INCH (DASHED WHITE)(12.5 FT LINE 37.5 FT SKIP)

(103) TEMPORARY PAVEMENT MARKING EPOXY 8-INCH (DOT PATTERN WHITE)(3 FT LINE 9 FT SKIP)

(104) TEMPORARY PAVEMENT MARKING EPOXY 8-INCH (WHITE)

(E) EXISTING PAVEMENT MARKING

N

USH 10 WB/STH 441 SB

USH 10 EB/STH 441 NB

R/L USH 10 EB

263EB

264EB

265EB

266EB

267EB

262+00.00 MATCH LINE

268+00.00 MATCH LINE

11'

11'

11'

11'

2'

6'

RIGHT LANE
MUST EXIT

R3-33-R
30"X18"

TILE

SIGN

PROJECT NO: 1517-75-72	HWY: STH 441/USH 10	COUNTY: WINNEBAGO	TRAFFIC CONTROL STAGE 2A	SHEET 222	E

2

2

LEGEND

100	TEMPORARY PAVEMENT MARKING EPOXY 4-INCH (YELLOW)
101	TEMPORARY PAVEMENT MARKING EPOXY 4-INCH (WHITE)
102	TEMPORARY PAVEMENT MARKING EPOXY 4-INCH (DASHED WHITE)(12.5 FT LINE 37.5 FT SKIP)
103	TEMPORARY PAVEMENT MARKING EPOXY 8-INCH (DOT PATTERN WHITE)(3 FT LINE 9 FT SKIP)
104	TEMPORARY PAVEMENT MARKING EPOXY 8-INCH (WHITE)
E	EXISTING PAVEMENT MARKING

N

THRIE BEAM CONNECTION & HEIGHT TRANSITION WEDGE

268EB+00. -25.00' LT

268EB+25. -22.00' LT

270EB+25. -33.00' LT

271EB+75. -22.00' LT

273EB+12. -33.00' LT

273EB+26. -33.00' LT

273EB+26. -22.00' LT

268+00.00 MATCH LINE

274+00.00 MATCH LINE

269EB

270EB

271EB

272EB

273EB

R/L USH 10 EB

USH 10 WB/STH 441 SB

USH 10 EB/STH 441 NB

1271ASW

1272ASW

1273ASW

APPLETON RD SW RAMP

R/L APPLETON RD (ASW)

1271ASW+01. 26.65' RT

1271ASW+26. 15.38' RT

FMS

E1-1
108"X30"

EXIT 290

47

APPLETON RD

132"X54"

PROJECT NO:1517-75-72	HWY: STH 441/USH 10	COUNTY: WINNEBAGO	TRAFFIC CONTROL STAGE 2A	SHEET 223 E

FILE NAME : S:\PDS\C3D\WIS441\15177570_72_77_85\SHEETSPLAN\1517-75-72\026000-TC\NE-15177572-026201-TC2A.DWG
LAYOUT NAME - 026212-TC2A

PLOT DATE : 4/4/2017 8:22 AM PLOT BY : MARTENS, JOHN M PLOT NAME : PLOT SCALE : 1 IN:40 FT

LEGEND

100	TEMPORARY PAVEMENT MARKING EPOXY 4-INCH (YELLOW)
101	TEMPORARY PAVEMENT MARKING EPOXY 4-INCH (WHITE)
102	TEMPORARY PAVEMENT MARKING EPOXY 4-INCH (DASHED WHITE)(12.5 FT LINE 37.5 FT SKIP)
103	TEMPORARY PAVEMENT MARKING EPOXY 8-INCH (DOT PATTERN WHITE)(3 FT LINE 9 FT SKIP)
104	TEMPORARY PAVEMENT MARKING EPOXY 8-INCH (WHITE)
E	EXISTING PAVEMENT MARKING

N

274+00.00 MATCH LINE

280+00.00 MATCH LINE

ROAD CLOSED
R11-2
48"X30"

ROAD CLOSED
R11-2
48"X30"

RIGHT LANE ENDS
W9-1R
30"X30"

50' TYP

279EB+76. -129.42' LT

276EB+10. -60.92' LT

W04-2R

APPLETON RD NW RAMP

W4-1R
36"X36"

275EB+82. -22.00' LT

277EB+33. -24.62' LT

USH 10 WB/STH 441 SB

275EB
276EB
277EB
278EB
279EB

11'
11'

USH 10 EB/STH 441 NB

R/L USH 10 EB

277EB+99. 28.00' RT

6'
11'
11'

1275ASW

1276ASW

1277ASW

1278ASW

1279ASW

1275ASW+30. 0.30' RT

1276ASW+71. 12.00' RT

R/L APPLETON RD (ASW)

APPLETON RD SW RAMP

1278ASW+00. 0.00'

12'
12'

1278ASW+50. -0.13' LT
MATCH EXISTING

1278ASW+50. 12.00' RT
MATCH EXISTING

SIGN

TOWER

TV E

PROJECT NO:1517-75-72	HWY: STH 441/USH 10	COUNTY: WINNEBAGO	TRAFFIC CONTROL STAGE 2A	SHEET 224 E

FILE NAME : S:\PDS\C3D\WIS441\15177570_72_77_85\SHEETSPLAN\1517-75-72\026000-TC\NE-15177572-026201-TC2A.DWG
LAYOUT NAME - 026213-TC2A
PLOT DATE : 4/4/2017 8:23 AM PLOT BY : MARTENS, JOHN M PLOT NAME : PLOT SCALE : 1 IN:40 FT
WISDOT/CADDS SHEET 42

2

ROAD WORK AHEAD
W20-1-A

APPLETON RD NW RAMP

282EB+44. -160.60' LT
MATCH EXISTING

W01-4L

LEGEND

100	TEMPORARY PAVEMENT MARKING EPOXY 4-INCH (YELLOW)
101	TEMPORARY PAVEMENT MARKING EPOXY 4-INCH (WHITE)
102	TEMPORARY PAVEMENT MARKING EPOXY 4-INCH (DASHED WHITE)(12.5 FT LINE 37.5 FT SKIP)
103	TEMPORARY PAVEMENT MARKING EPOXY 8-INCH (DOT PATTERN WHITE)(3 FT LINE 9 FT SKIP)
104	TEMPORARY PAVEMENT MARKING EPOXY 8-INCH (WHITE)
E	EXISTING PAVEMENTMARKING

N

2

280+00.00 MATCH LINE

286+00.00 MATCH LINE

281EB 282EB 283EB 284EB 285EB

11' 11' 6' 11' 11'

101 100 102 USH 10 EB/STH 441 NB R/L USH 10 EB

E

1281ASW 1282ASW 1283ASW 1284ASW 1285ASW 1286ASW

APPLETON RD SW RAMP

R/L APPLETON RD (ASW)

END ROAD WORK
G20-2A
48"X24"

PROJECT NO:1517-75-72	HWY: STH 441/USH 10	COUNTY: WINNEBAGO	TRAFFIC CONTROL STAGE 2A	SHEET 225 E

FILE NAME : S:\PDS\C3D\WIS441\15177570_72_77_85\SHEETSPLAN\1517-75-72\026000-TC\NE-15177572-026201-TC2A.DWG
LAYOUT NAME - 026214-TC2A

PLOT DATE : 4/4/2017 8:23 AM PLOT BY : MARTENS, JOHN M PLOT NAME : PLOT SCALE : 1 IN:40 FT

WISDOT/CADDS SHEET 42

2

LEGEND

100	TEMPORARY PAVEMENT MARKING EPOXY 4-INCH (YELLOW)
101	TEMPORARY PAVEMENT MARKING EPOXY 4-INCH (WHITE)
102	TEMPORARY PAVEMENT MARKING EPOXY 4-INCH (DASHED WHITE)(12.5 FT LINE 37.5 FT SKIP)
103	TEMPORARY PAVEMENT MARKING EPOXY 8-INCH (DOT PATTERN WHITE)(3 FT LINE 9 FT SKIP)
104	TEMPORARY PAVEMENT MARKING EPOXY 8-INCH (WHITE)
E	EXISTING PAVEMENT MARKING

N

2

286+00.00 MATCH LINE

292+00.00 MATCH LINE

288EB+33, -25.00' LT

289EB+98, -24.08' LT

290EB+09, -11.00' LT

R/L USH 10 EB

50' (TYP)

287EB

288EB

289EB

290EB

291EB

6'

11'

11'

USH 10 EB/STH 441 NB

APPLETON RD SB

APPLETON RD NB

100

101

102

SIGN

1287ASW

1288ASW

TOWER

PROJECT NO: 1517-75-72	HWY: STH 441/USH 10	COUNTY: WINNEBAGO	TRAFFIC CONTROL STAGE 2A	SHEET 226	E

FILE NAME : S:\PDS\C3D\WIS441\15177570_72_77_85\SHEETSPLAN\1517-75-72\026000-TC\NE-15177572-026201-TC2A.DWG
LAYOUT NAME - 026215-TC2A

PLOT DATE : 4/4/2017 8:23 AM PLOT BY : MARTENS, JOHN M PLOT NAME : PLOT SCALE : 1 IN:40 FT

WISDOT/CADDS SHEET 42

2

LEGEND

(100) TEMPORARY PAVEMENT MARKING EPOXY 4-INCH (YELLOW)
(101) TEMPORARY PAVEMENT MARKING EPOXY 4-INCH (WHITE)
(102) TEMPORARY PAVEMENT MARKING EPOXY 4-INCH (DASHED WHITE)(12.5 FT LINE 37.5 FT SKIP)
(103) TEMPORARY PAVEMENT MARKING EPOXY 8-INCH (DOT PATTERN WHITE)(3 FT LINE 9 FT SKIP)
(104) TEMPORARY PAVEMENT MARKING EPOXY 8-INCH (WHITE)
(E) EXISTING PAVEMENT MARKING

N

292+00.00 MATCH LINE

298+00.00 MATCH LINE

APPLETON RD NE RAMP

ROAD CLOSED
R11-2
48"X30"

W1-6
48"X24"

W1-6
48"X24"

50' (TYP)

USH 10 WB/STH 441 SB

297EB+58, -57.03' LT

LANE CLOSED
R11-2-L
48"X30"

R/L USH 10 EB

293EB

294EB

295EB

296EB

297EB

USH 10 EB/STH 441 NB

102

100

101

W1-4BL
48"X48"

TOWER

APPLETON RD SE RAMP

PROJECT NO: 1517-75-72	HWY: STH 441/USH 10	COUNTY: WINNEBAGO	TRAFFIC CONTROL STAGE 2A	SHEET 227	E

FILE NAME : S:\PDS\C3D\WIS441\15177570_72_77_85\SHEETSPLAN\1517-75-72\026000-TC\NE-15177572-026201-TC2A.DWG
LAYOUT NAME - 026216-TC2A

PLOT DATE : 4/4/2017 8:23 AM PLOT BY : MARTENS, JOHN M PLOT NAME : PLOT SCALE : 1 IN:40 FT

WISDOT/CADDS SHEET 42

2

N

APPLETON RD NE RAMP

SIGN

298EB+08. -82.50' LT

298EB+08. -71.50' LT

298EB+08. -60.50' LT

298EB+08. -51.50' LT

E

USH 10 WB/STH 441 SB

50' TYP

W9T-4DL

STAY IN LANE
R4-9
24"X30"

END ROAD WORK
G20-2A
48"X24"

298+00.00 MATCH LINE

299EB 300EB 301EB 302EB 303EB 304EB

298EB+08. 6.00' RT

298EB+08. 17.00' RT

298EB+08. 28.00' RT

E

USH 10 EB/STH 441 NB

APPLETON RD NE RAMP

SIGN

TOWER

SIGN

MH

GUY

LEGEND

100	TEMPORARY PAVEMENT MARKING EPOXY 4-INCH (YELLOW)
101	TEMPORARY PAVEMENT MARKING EPOXY 4-INCH (WHITE)
102	TEMPORARY PAVEMENT MARKING EPOXY 4-INCH (DASHED WHITE)(12.5 FT LINE 37.5 FT SKIP)
103	TEMPORARY PAVEMENT MARKING EPOXY 8-INCH (DOT PATTERN WHITE)(3 FT LINE 9 FT SKIP)
104	TEMPORARY PAVEMENT MARKING EPOXY 8-INCH (WHITE)
E	EXISTING PAVEMENT MARKING

PROJECT NO:1517-75-72	HWY: STH 441/USH 10	COUNTY: WINNEBAGO	TRAFFIC CONTROL STAGE 2A	SHEET 228	E

FILE NAME : S:\PDS\C3D\WIS441\15177570_72_77_85\SHEETSPLAN\1517-75-72\026000-TC\NE-15177572-026201-TC2A.DWG
LAYOUT NAME - 026217-TC2A

PLOT DATE : 4/4/2017 8:23 AM PLOT BY : MARTENS, JOHN M PLOT NAME : PLOT SCALE : 1 IN:40 FT

WISDOT/CADDS SHEET 42

LEGEND

100	PAVEMENT MARKING EPOXY 4-INCH (YELLOW)
101	PAVEMENT MARKING EPOXY 4-INCH (WHITE)
102	PAVEMENT MARKING EPOXY 4-INCH (DASHED WHITE)(12.5 FT LINE 37.5 FT SKIP)
103	PAVEMENT MARKING EPOXY 8-INCH (DOT PATTERN WHITE)(3 FT LINE 9 FT SKIP)
104	PAVEMENT MARKING EPOXY 8-INCH (WHITE)
E	EXISTING PAVEMENT MARKING

2

N

MAILBOX
POOL
GAS MP
MH
VLV
MH
INL
GAS MP
MARKER
ROW POST
RACINE RD
12+50.00 MATCH L

E
END ROAD WORK
G20-2A
48"X24"

MIDWAY RD WB
11EMEB
12EMWB
12EMEB
MIDWAY RD EB

E
ROAD WORK AHEAD
W20-1-A

PROJECT NO:1517-75-72	HWY: STH 441/USH 10	COUNTY: WINNEBAGO	TRAFFIC CONTROL STAGE 2A	SHEET 229 E

FILE NAME : S:\PDS\C3D\WIS441\15177570_72_77_85\SHEETSPLAN\1517-75-72\026000-TC\NE-15177572-026231-TC2A.DWG
LAYOUT NAME - 026231-TC2A

PLOT DATE : 4/4/2017 8:24 AM PLOT BY : MARTENS, JOHN M PLOT NAME : PLOT SCALE : 1 IN:40 FT

2

LEGEND

(100) PAVEMENT MARKING EPOXY 4-INCH (YELLOW)

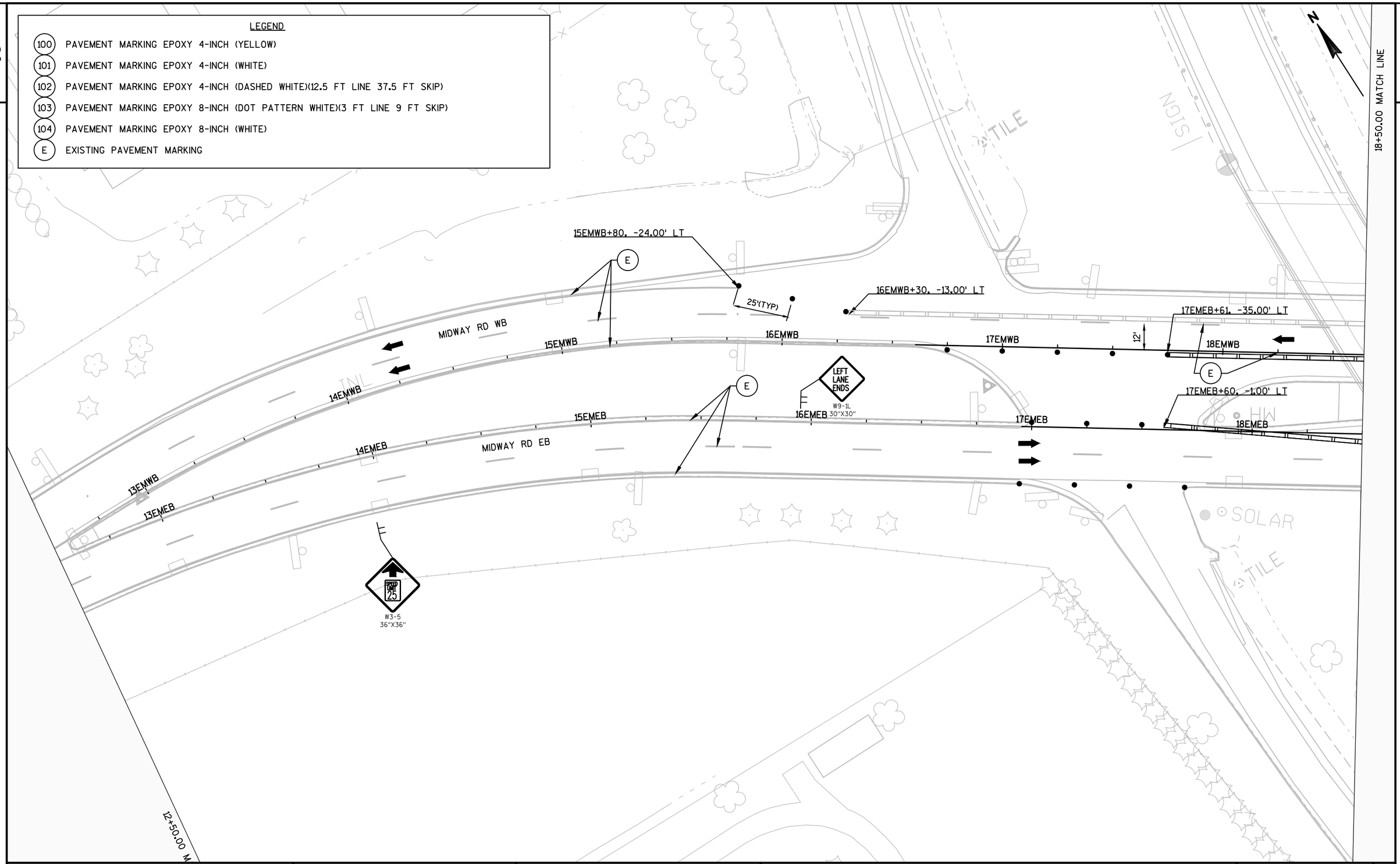
(101) PAVEMENT MARKING EPOXY 4-INCH (WHITE)

(102) PAVEMENT MARKING EPOXY 4-INCH (DASHED WHITE)(12.5 FT LINE 37.5 FT SKIP)

(103) PAVEMENT MARKING EPOXY 8-INCH (DOT PATTERN WHITE)(3 FT LINE 9 FT SKIP)

(104) PAVEMENT MARKING EPOXY 8-INCH (WHITE)

(E) EXISTING PAVEMENT MARKING



PROJECT NO:1517-75-72	HWY: STH 441/USH 10	COUNTY: WINNEBAGO	TRAFFIC CONTROL STAGE 2A	SHEET 230	E

FILE NAME : S:\PDS\C3D\WIS441\15177570_72_77_85\SHEETSPLAN\1517-75-72\026000-TC\NE-15177572-026231-TC2A.DWG
LAYOUT NAME - 026232-TC2A

PLOT DATE : 4/4/2017 8:24 AM PLOT BY : MARTENS, JOHN M PLOT NAME : PLOT SCALE : 1 IN:40 FT

WISDOT/CADDS SHEET 42

2

2

LEGEND

100	PAVEMENT MARKING EPOXY 4-INCH (YELLOW)
101	PAVEMENT MARKING EPOXY 4-INCH (WHITE)
102	PAVEMENT MARKING EPOXY 4-INCH (DASHED WHITE)(12.5 FT LINE 37.5 FT SKIP)
103	PAVEMENT MARKING EPOXY 8-INCH (DOT PATTERN WHITE)(3 FT LINE 9 FT SKIP)
104	PAVEMENT MARKING EPOXY 8-INCH (WHITE)
E	EXISTING PAVEMENT MARKING

24+50.00 MATCH LINE

W1-6
48"X24"

MIDWAY RD WB

19EMWB

20EMWB

21EMWB

22EMWB

23EMWB

24EMWB

21EMWB+70. 1.00' RT

19EMEB

19EMEB+55. 11.00' RT

20EMEB

21EMEB

22EMEB

23EMEB

24EMEB

20EMEB+75. 11.00' RT

25'(TYP)

MIDWAY RD EB

INFORMATION SHOWN ELSEWHERE.

USH 10 WB/STH 441 SB

INFORMATION SHOWN ELSEWHERE.

USH 10 EB/STH 441 NB.

18+50.00 MATCH LINE

PROJECT NO: 1517-75-72	HWY: STH 441/USH 10	COUNTY: WINNEBAGO	TRAFFIC CONTROL STAGE 2A	SHEET 231	E

FILE NAME : S:\PDS\C3D\WIS441\15177570_72_77_85\SHEETSPLAN\1517-75-72\026000-TC\NE-15177572-026231-TC2A.DWG
LAYOUT NAME - 026233-TC2A

PLOT DATE : 4/4/2017 8:25 AM PLOT BY : MARTENS, JOHN M PLOT NAME : PLOT SCALE : 1 IN:40 FT

2

N

30+50.00 MATCH LINE

24+50.00 MATCH LINE

RIGHT LANE MUST TURN RIGHT
R3-7-R
30"X30"

25EMWB
25EMEB
26EMWB
27EMEB
28EMEB
29EMEB
30EMEB

MIDWAY RD WB
MIDWAY RD EB

EARL ST

GUY
R/W
WV
OH
MH
FLAG
POST
GV
BMP

LEGEND

100	PAVEMENT MARKING EPOXY 4-INCH (YELLOW)
101	PAVEMENT MARKING EPOXY 4-INCH (WHITE)
102	PAVEMENT MARKING EPOXY 4-INCH (DASHED WHITE)(12.5 FT LINE 37.5 FT SKIP)
103	PAVEMENT MARKING EPOXY 8-INCH (DOT PATTERN WHITE)(3 FT LINE 9 FT SKIP)
104	PAVEMENT MARKING EPOXY 8-INCH (WHITE)
E	EXISTING PAVEMENT MARKING

2

N

RIGHT LANE ENDS
W9-1R
30"X30"

SPEED LIMIT 25
W3-5
36"X36"

ROAD WORK AHEAD
W20-1-A

E

MIDWAY RD WB

MIDWAY RD EB

31EMEB 32EMEB 33EMEB 34EMEB 35EMEB 36EMEB

END ROAD WORK
G20-2A
48"X24"

LEGEND

100	PAVEMENT MARKING EPOXY 4-INCH (YELLOW)
101	PAVEMENT MARKING EPOXY 4-INCH (WHITE)
102	PAVEMENT MARKING EPOXY 4-INCH (DASHED WHITE)(12.5 FT LINE 37.5 FT SKIP)
103	PAVEMENT MARKING EPOXY 8-INCH (DOT PATTERN WHITE)(3 FT LINE 9 FT SKIP)
104	PAVEMENT MARKING EPOXY 8-INCH (WHITE)
E	EXISTING PAVEMENT MARKING

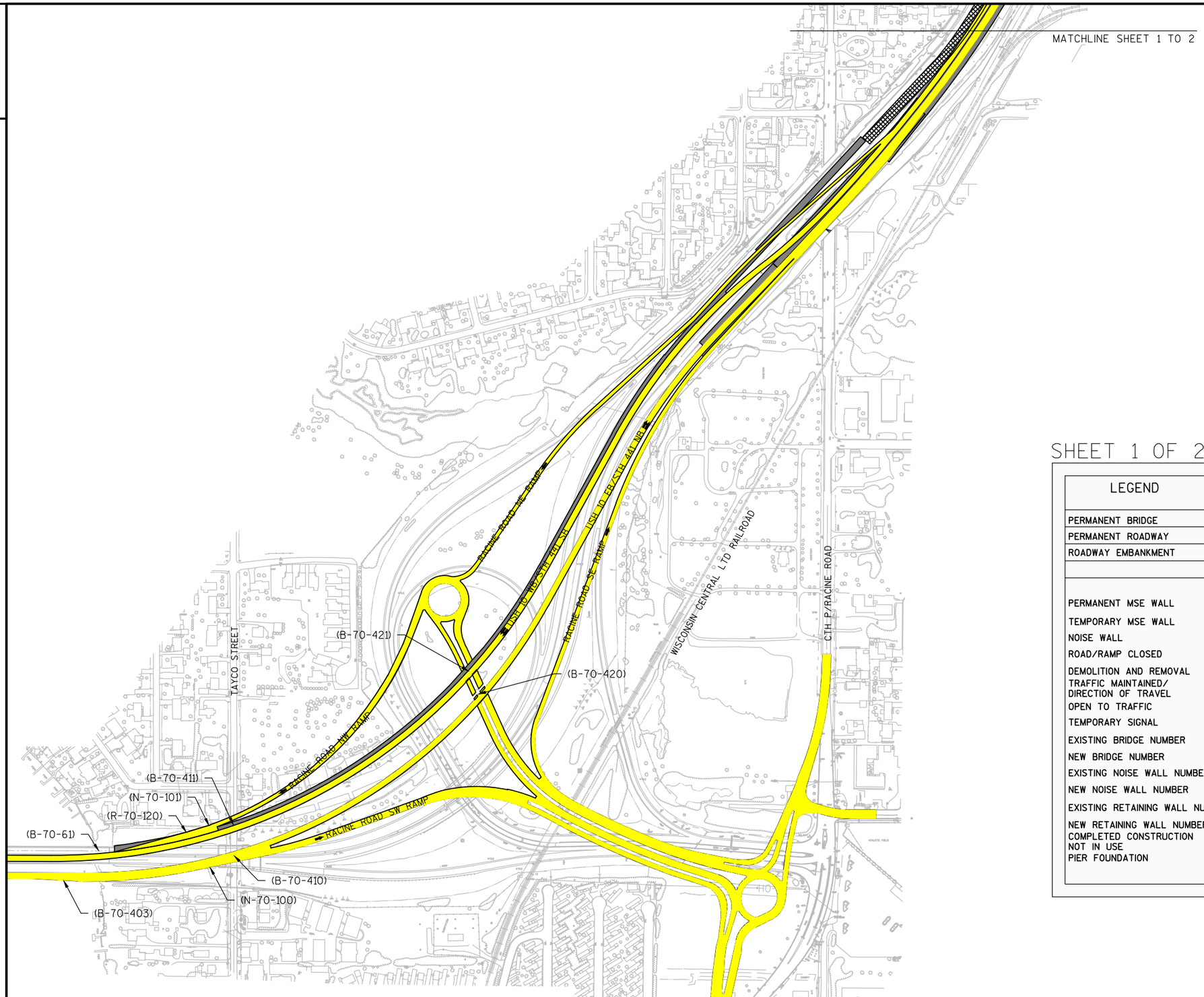
30+50.00 MATCH LINE

PROJECT NO: 1517-75-72	HWY: STH 441/USH 10	COUNTY: WINNEBAGO	TRAFFIC CONTROL STAGE 2A	SHEET 233	E

FILE NAME : S:\PDS\C3D\WIS441\15177570_72_77_85\SHEETSPLAN\1517-75-72\026000-TC\NE-15177572-026231-TC2A.DWG
LAYOUT NAME - 026235-TC2A

PLOT DATE : 4/4/2017 8:25 AM PLOT BY : MARTENS, JOHN M PLOT NAME : PLOT SCALE : 1 IN:40 FT

2



SHEET 1 OF 2

LEGEND	CONSTRUCTION AVAILABLE THIS PHASE	CONSTRUCTION CRITICAL FOR NEXT PHASE
PERMANENT BRIDGE		
PERMANENT ROADWAY		
ROADWAY EMBANKMENT		

PERMANENT MSE WALL	
TEMPORARY MSE WALL	
NOISE WALL	
ROAD/RAMP CLOSED	
DEMOLITION AND REMOVAL	
TRAFFIC MAINTAINED/ DIRECTION OF TRAVEL	
OPEN TO TRAFFIC	
TEMPORARY SIGNAL	T
EXISTING BRIDGE NUMBER	(B-70-XXXX)
NEW BRIDGE NUMBER	B-70-XXXX
EXISTING NOISE WALL NUMBER	(N-70-XXXX)
NEW NOISE WALL NUMBER	N-70-XXXX
EXISTING RETAINING WALL NUMBER	(R-70-XXXX)
NEW RETAINING WALL NUMBER	R-70-XXXX
COMPLETED CONSTRUCTION NOT IN USE	
PIER FOUNDATION	

PROJECT NO: 1517-75-72	HWY: STH 441/USH 10	COUNTY: WINNEBAGO	STAGE CONSTRUCTION 2B - SHEET 1	SHEET 234	E

2

N

STH 47/APPLETON ROAD

APPLETON ROAD NW RAMP

USH 10 EB/STH 441 NB

USH 10 WB/STH 441 SB

APPLETON ROAD SW RAMP

N-70-132

R-70-142

MIDWAY ROAD NE RAMP

(B-70-112)

(B-70-111)

R-70-151

B-70-423

B-70-424

CTH AP/MIDWAY ROAD

R-70-150

CTH P/RACINE ROAD

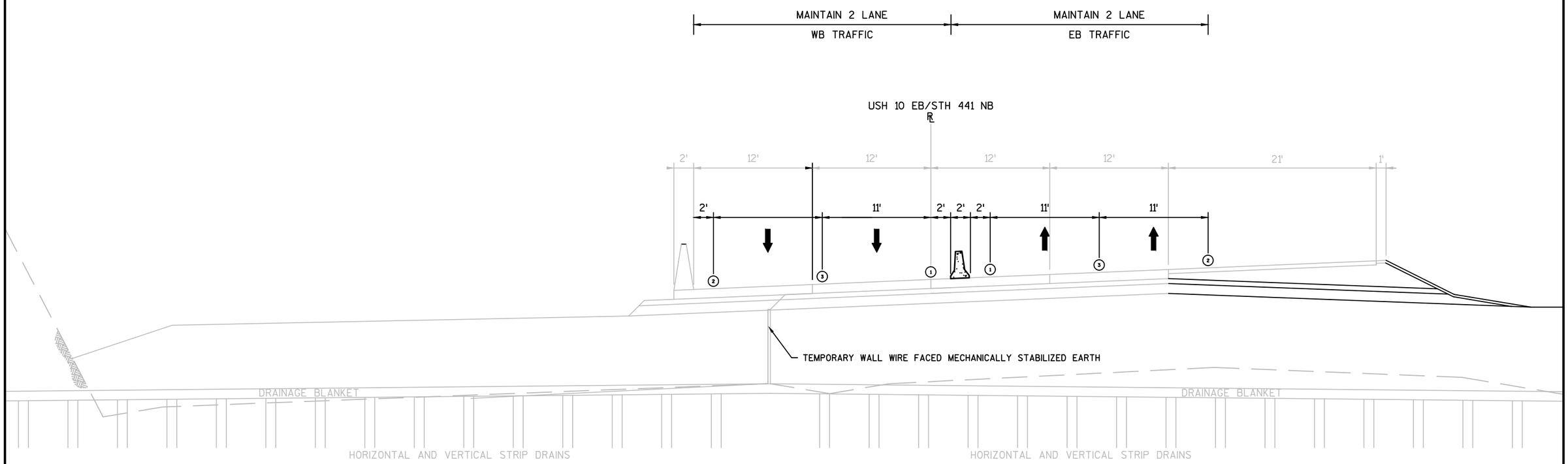
WISCONSIN CENTRAL LTD RAILROAD

MATCHLINE SHEET 2 TO 1

SHEET 2 OF 2

LEGEND	CONSTRUCTION AVAILABLE THIS PHASE	CONSTRUCTION CRITICAL FOR NEXT PHASE
PERMANENT BRIDGE		
PERMANENT ROADWAY		
ROADWAY EMBANKMENT		
PERMANENT MSE WALL		
TEMPORARY MSE WALL		
NOISE WALL		
ROAD/RAMP CLOSED		
DEMOLITION AND REMOVAL		
TRAFFIC MAINTAINED/ DIRECTION OF TRAVEL		
OPEN TO TRAFFIC		
TEMPORARY SIGNAL	T	
EXISTING BRIDGE NUMBER	(B-70-XXXX)	
NEW BRIDGE NUMBER	B-70-XXXX	
EXISTING NOISE WALL NUMBER	(N-70-XXXX)	
NEW NOISE WALL NUMBER	N-70-XXXX	
EXISTING RETAINING WALL NUMBER	(R-70-XXXX)	
NEW RETAINING WALL NUMBER	R-70-XXXX	
COMPLETED CONSTRUCTION NOT IN USE		
PIER FOUNDATION		

2



TYPICAL SECTION - TRAFFIC CONTROL STAGE 2B

USH 10/STH 441

STA 225EB+60.00 TO STA 233EB+85.00

NOTES

REFER TO TRAFFIC CONTROL PLAN SHEETS, FOR CHANGES BETWEEN TRAFFIC CONTROL DRUMS AND CONCRETE BARRIER TEMPORARY PRECAST.

2

LEGEND

100	TEMPORARY PAVEMENT MARKING EPOXY 4-INCH (YELLOW)
101	TEMPORARY PAVEMENT MARKING EPOXY 4-INCH (WHITE)
102	TEMPORARY PAVEMENT MARKING EPOXY 4-INCH (DASHED WHITE)(12.5 FT LINE 37.5 FT SKIP)
103	TEMPORARY PAVEMENT MARKING EPOXY 8-INCH (DOT PATTERN WHITE)(3 FT LINE 9 FT SKIP)
104	TEMPORARY PAVEMENT MARKING EPOXY 8-INCH (WHITE)
E	EXISTING PAVEMENT MARKING

220+00.00 MATCH LINE

2

RACINE RD NE RAMP

216EB+56, -21.28' LT

USH 10 WB/STH 441 SB

R/L USH 10 EB

101

100

R2211'

214EB 215EB USH 10 WB 216EB 217EB 218EB 219EB 220

218EB+08, -4.00' LT

USH 10 EB/STH 441 NB

RACINE RD SE RAMP

INL

MH

W

PROJECT NO:1517-75-72	HWY: STH 441/USH 10	COUNTY: WINNEBAGO	TRAFFIC CONTROL STAGE 2B	SHEET 237	E

FILE NAME : S:\PDS\C3D\WIS441\15177570_72_77_85\SHEETSPLAN\1517-75-72\026000-TC\NE-15177572-026251-TC2B.DWG
LAYOUT NAME - 026251-TC2B

PLOT DATE : 4/4/2017 8:27 AM PLOT BY : MARTENS, JOHN M PLOT NAME : PLOT SCALE : 1 IN:40 FT

2

2

LEGEND

100	TEMPORARY PAVEMENT MARKING EPOXY 4-INCH (YELLOW)
101	TEMPORARY PAVEMENT MARKING EPOXY 4-INCH (WHITE)
102	TEMPORARY PAVEMENT MARKING EPOXY 4-INCH (DASHED WHITE)(12.5 FT LINE 37.5 FT SKIP)
103	TEMPORARY PAVEMENT MARKING EPOXY 8-INCH (DOT PATTERN WHITE)(3 FT LINE 9 FT SKIP)
104	TEMPORARY PAVEMENT MARKING EPOXY 8-INCH (WHITE)
E	EXISTING PAVEMENT MARKING

N

226+00.00 MATCH LINE

220+00.00 MATCH LINE

RACINE RD NE RAMP

USH 10 WB/STH 441 SB

R/L USH 10 EB

USH 10 EB/STH 441 NB

220EB+34, -14.99' LT
220EB+34, -4.00' LT
220EB+28, 7.00' RT
220EB+34, 13.00' RT
220EB+34, 24.00' RT
220EB+34, 35.00' RT
220EB+34, 46.00' RT
220EB+28, 10.00' RT

221EB
222EB
223EB
224EB
225EB

223EB+99, -24.00' LT
224EB+05, -21.11' LT
225EB+60, -22.00' LT
225EB+60, -11.00' LT
225EB+60, 0.00'
225EB+60, 6.00' RT
225EB+60, 17.00' RT
225EB+60, 28.00' RT

221EB+66, 33.61' RT
222EB+99, 41.54' RT

R6297'
R6303'

11'
6'
4'
2'

SIGN
SIGN
MH

PROJECT NO: 1517-75-72	HWY: STH 441/USH 10	COUNTY: WINNEBAGO	TRAFFIC CONTROL STAGE 2B	SHEET 238 E

2

2

LEGEND

100	TEMPORARY PAVEMENT MARKING EPOXY 4-INCH (YELLOW)
101	TEMPORARY PAVEMENT MARKING EPOXY 4-INCH (WHITE)
102	TEMPORARY PAVEMENT MARKING EPOXY 4-INCH (DASHED WHITE)(12.5 FT LINE 37.5 FT SKIP)
103	TEMPORARY PAVEMENT MARKING EPOXY 8-INCH (DOT PATTERN WHITE)(3 FT LINE 9 FT SKIP)
104	TEMPORARY PAVEMENT MARKING EPOXY 8-INCH (WHITE)
E	EXISTING PAVEMENT MARKING

N

232+00.00 MATCH LINE

101

102

100

102

101

USH 10 WB/STH 441 SB

R/L USH 10 EB

USH 10 EB/STH 441 NB

2'

11'

6'

11'

11'

11'

227EB

228EB

229EB

230EB

231EB

232

INL

MH

CC

CANADIAN NATIONAL

PROJECT NO:1517-75-72	HWY: STH 441/USH 10	COUNTY: WINNEBAGO	TRAFFIC CONTROL STAGE 2B	SHEET 239	E

FILE NAME : S:\PDS\C3D\WIS441\15177570_72_77_85\SHEETSPLAN\1517-75-72\026000-TC\NE-15177572-026251-TC2B.DWG
LAYOUT NAME - 026253-TC2B

PLOT DATE : 4/4/2017 8:27 AM PLOT BY : MARTENS, JOHN M PLOT NAME : PLOT SCALE : 1 IN:40 FT

WISDOT/CADDS SHEET 42

2

2

LEGEND

100	TEMPORARY PAVEMENT MARKING EPOXY 4-INCH (YELLOW)
101	TEMPORARY PAVEMENT MARKING EPOXY 4-INCH (WHITE)
102	TEMPORARY PAVEMENT MARKING EPOXY 4-INCH (DASHED WHITE)(12.5 FT LINE 37.5 FT SKIP)
103	TEMPORARY PAVEMENT MARKING EPOXY 8-INCH (DOT PATTERN WHITE)(3 FT LINE 9 FT SKIP)
104	TEMPORARY PAVEMENT MARKING EPOXY 8-INCH (WHITE)
E	EXISTING PAVEMENT MARKING

N

238+00.00 MATCH LINE

101

102

R/L USH 10 EB

2'

11'

11'

11'

11'

6'

USH 10 WB/STH 441 SB

USH 10 EB/STH 441 NB

100

102

101

2EB

233EB

234EB

235EB

236EB

237EB

238

INL

INL

MH

MH

CANADIAN NATIONAL

238+00.00 MATCH LINE

PROJECT NO: 1517-75-72	HWY: STH 441/USH 10	COUNTY: WINNEBAGO	TRAFFIC CONTROL STAGE 2B	SHEET 240	E

FILE NAME : S:\PDS\C3D\WIS441\15177570_72_77_85\SHEETSPLAN\1517-75-72\026000-TC\NE-15177572-026251-TC2B.DWG
LAYOUT NAME - 026254-TC2B

PLOT DATE : 4/4/2017 8:27 AM PLOT BY : MARTENS, JOHN M PLOT NAME : PLOT SCALE : 1 IN:40 FT

WISDOT/CADDS SHEET 42

2

2

LEGEND

100	TEMPORARY PAVEMENT MARKING EPOXY 4-INCH (YELLOW)
101	TEMPORARY PAVEMENT MARKING EPOXY 4-INCH (WHITE)
102	TEMPORARY PAVEMENT MARKING EPOXY 4-INCH (DASHED WHITE)(12.5 FT LINE 37.5 FT SKIP)
103	TEMPORARY PAVEMENT MARKING EPOXY 8-INCH (DOT PATTERN WHITE)(3 FT LINE 9 FT SKIP)
104	TEMPORARY PAVEMENT MARKING EPOXY 8-INCH (WHITE)
E	EXISTING PAVEMENT MARKING

N

244+00.00 MATCH LINE

238+00.00 MATCH LINE

239EB+50, -25.00' LT

240EB+74, -24.00' LT

240EB+50, -22.00' LT

240EB+50, -11.00' LT

240EB+50, 0.00'

240EB+50, 6.00' RT

240EB+50, 17.00' RT

240EB+50, 28.01' RT

101

102

100

2'

11'

11'

6'

11'

11'

239EB

240EB

241EB

242EB

243EB

USH 10 WB/STH 441 SB

R/L USH 10 EB

USH 10 EB/STH 441 NB

MIDWAY RD EB

MIDWAY RD WB

R/L MIDWAY RD (MNE)

243MNE

MIDWAY RD NE RAMP

244MNE

SIGN

MH

CANADIAN NATIONAL

PROJECT NO:1517-75-72	HWY: STH 441/USH 10	COUNTY: WINNEBAGO	TRAFFIC CONTROL STAGE 2B	SHEET 241	E

2

N

STA BACK = 266+54.63
STA AHEAD = 266+52.51

254EB
256EB
258EB
260EB
262EB
264EB
266EB

R/W LINE

SLOPE INTERCEPT (TYP)

EXISTING R/W

32-INCH CONCRETE BARRIER

FENCE CHAIN LINK, 6-FT

FENCE CHAIN LINK, 6-FT

EB+45.22
113.27' RT

EB+08.36
80.47' RT

EB+30.23
66.37' RT

EB+41.58
65.94' RT

EB+50.12
80.81' RT

EB+63.55
76.41' RT

EB+44.76
123.56' RT

EB+25.20
112.87' RT

268+00.00 MATCH LINE

TILE
SIGN
MH
INL
POST
W

PROJECT NO: 1517-75-72	HWY: STH 441/USH 10	COUNTY: WINNEBAGO	FENCING PLAN	SHEET 242	E

FILE NAME : S:\PDS\C3D\WIS441\15177570_72_77_85\SHEETSPLAN\1517-75-72\027100-FN\NE-15177572-027101-FN.DWG
LAYOUT NAME - 027104-FN

PLOT DATE : 2/10/2017 8:57 AM PLOT BY : MARTENS, JOHN M PLOT NAME : PLOT SCALE : 1 IN:100 FT

2

268+00.00 MATCH LINE

2

N

SIGN

TILE

269WB 270WB 271WB 272WB 273WB 274WB 275WB 276WB 277WB 278WB 279WB 280WB 281WB 282WB 283WB

270EB 272EB 274EB 276EB 278EB 280EB 282EB

INL

MH INL

MH INL

W

SLOPE INTERCEPT (TYP)

N-70-132

EXISTING R/W

FENCE CHAIN LINK, 6-FT

EB+02.20
144.41' RT

TOWER

TVC

EB+82.91
167.54' RT

EB+75.49
191.03' RT

PROJECT NO: 1517-75-72	HWY: STH 441/USH 10	COUNTY: WINNEBAGO	FENCING PLAN	SHEET 243	E

FILE NAME : S:\PDS\C3D\WIS441\15177570_72_77_85\SHEETSPLAN\1517-75-72\027100-FN\NE-15177572-027101-FN.DWG
LAYOUT NAME - 027105-FN

PLOT DATE : 2/10/2017 8:57 AM PLOT BY : MARTENS, JOHN M PLOT NAME : PLOT SCALE : 1 IN:100 FT

WISDOT/CADDS SHEET 42

USH 10 EB/STH 441 NB

	STATION	CROWN R/L LEFT OF R/L SHOULDER	LEFT OF R/L INSIDE LANE	CROWN R/L INSIDE LANE	RIGHT OF R/L OUTSIDE LANE	RIGHT OF R/L AUX LANE	RIGHT OF R/L SHOULDER
			CURVE: EB-3				
END NORMAL CROWN	219EB+13.09	-4.0%	-2.0%	2.0%	-2.0%	-2.0%	-4.0%
LEVEL CROWN	220EB+33.09	-4.0%	-2.0%	2.0%	0.0%	0.0%	-4.0%
REVERSE CROWN	221EB+53.09	-4.0%	-2.0%	2.0%	2.0%	2.0%	-4.0%
PC	222EB+01.09						
BEGIN FULL SUPER	222EB+85.09	-4.2%	-4.2%	4.2%	4.2%	4.2%	-3.8%
END FULL SUPER	236EB+64.23	-4.2%	-4.2%	4.2%	4.2%	-	-3.8%
PT	237EB+48.23						
REVERSE CROWN	237EB+96.23	-2.0%	-2.0%	2.0%	2.0%	-	-2.0%
LEVEL CROWN	239EB+16.23	0.0%	0.0%	0.0%	0.0%	-	-2.0%
			CURVE: EB 4				
REVERSE CROWN	240EB+36.23	2.0%	2.0%	-2.0%	-2.0%	-	-2.0%
PC	242EB+47.50						
BEGIN SHOULDER BREAK	243EB+08.79	5.3%	5.3%	-5.3%	-5.3%	-	-5.3%
BEGIN FULL SUPER	243EB+67.50	1.4%	6.0%	-6.0%	-6.0%	-	-6.0%
END SHOULDER BREAK	244EB+18.14	-2.0%	6.0%	-6.0%	-6.0%	-	-6.0%
END FULL SUPER	266EB+02.20	-2.0%	6.0%	-6.0%	-6.0%	-6.0%	-6.0%
PT	267EB+22.20						
REVERSE CROWN	268EB+42.20	-4.0%	2.0%	-2.0%	-2.0%	-2.0%	-4.0%
LEVEL CROWN	269EB+62.20	-4.0%	0.0%	0.0%	-2.0%	-2.0%	-4.0%
BEGIN NORMAL CROWN	270EB+82.20	-4.0%	-2.0%	2.0%	-2.0%	-2.0%	-4.0%

*POINT OF ROTATION = REFERENCE LINE

MIDWAY NE RAMP (MNE)

	STATION	R/L LEFT OF R/L SHOULDER	R/L RIGHT OF R/L LANE	R/L RIGHT OF R/L SHOULDER
	CURVE: MNE-1			
END NORMAL CROWN	244MNE+58.31	-4.0%	-2.0%	-4.0%
LEVEL CROWN	244MNE+94.31	-4.0%	-2.0%	-4.0%
REVERSE CROWN	245MNE+30.31	-4.0%	-2.0%	-4.0%
PC	245MNE+35.64			
BEGIN FULL SUPER	245MNE+56.31	-4.0%	-3.4%	-4.0%
END FULL SUPER	245MNE+85.08	-4.0%	-3.4%	-4.0%
PT	246MNE+05.75			
REVERSE CROWN	246MNE+11.08	-4.0%	-2.0%	-4.0%
LEVEL CROWN	246MNE+47.08	-4.0%	-2.0%	-4.0%
BEGIN NORMAL CROWN	246MNE+83.08	-4.0%	-2.0%	-4.0%
	CURVE: MNE-2			
END NORMAL CROWN	249MNE+97.27	-4.0%	-2.0%	-4.0%
LEVEL CROWN	250MNE+50.27	-4.0%	-2.0%	-4.0%
REVERSE CROWN	251MNE+03.27	-4.0%	-2.0%	-4.0%
PC	251MNE+56.94			
BEGIN FULL SUPER	252MNE+10.27	-2.0%	-6.0%	-6.0%
PT	246MNE+05.75			
END RATE	246MNE+05.75	-2.0%	-6.0%	-6.0%

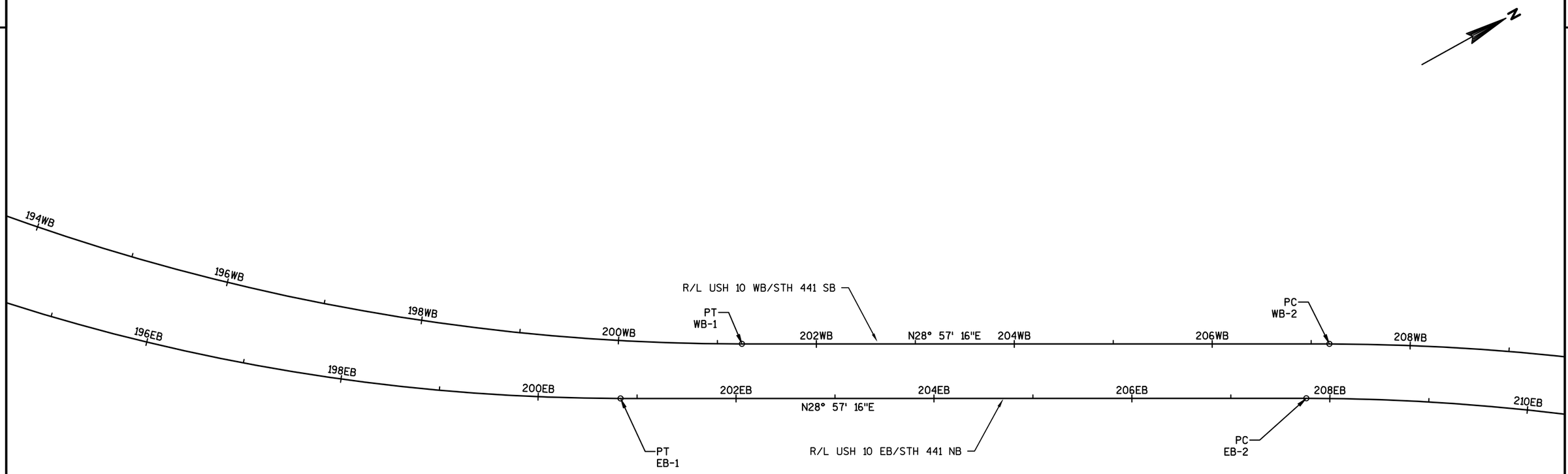
*POINT OF ROTATION = REFERENCE LINE

USH 10 WB/STH 441 SB

	STATION	CROWN R/L LEFT OF R/L SHOULDER	LEFT OF R/L AUX LANE	LEFT OF R/L OUTSIDE LANE	CROWN R/L INSIDE LANE	RIGHT OF R/L INSIDE LANE	RIGHT OF R/L SHOULDER
			CURVE: WB-3				
END NORMAL CROWN	218WB+76.20	-4.0%	-2.0%	-2.0%	2.0%	-2.0%	-4.0%
LEVEL CROWN	219WB+96.20	-4.0%	-2.0%	-2.0%	0.0%	0.0%	-4.0%
REVERSE CROWN	211WB+16.20	-4.0%	-2.0%	-2.0%	-2.0%	2.0%	-4.0%
PC	221WB+68.20						
BEGIN FULL SUPER	222WB+54.20	-4.3%	-	-4.3%	-4.3%	4.3%	-3.7%
END FULL SUPER	236WB+78.53	-4.3%	-	-4.3%	-4.3%	4.3%	-3.7%
PT	238WB+07.53						
REVERSE CROWN	238WB+16.53	-2.0%	-	-2.0%	-2.0%	2.0%	-2.0%
LEVEL CROWN	239WB+36.53	0.0%	-	0.0%	0.0%	0.0%	0.0%
			CURVE: WB-4				
REVERSE CROWN	240WB+56.53	2.0%	-	2.0%	2.0%	-2.0%	-2.0%
PC	241WB+31.18						
BEGIN SHOULDER BREAK	242WB+42.49	5.1%	-	5.1%	5.1%	-5.1%	-5.1%
BEGIN FULL SUPER	242WB+96.53	1.5%	-	6.0%	6.0%	-6.0%	-6.0%
END SHOULDER BREAK	243WB+48.99	-2.0%	-	6.0%	6.0%	-6.0%	-6.0%
END FULL SUPER	265WB+32.51	-2.0%	6.0%	6.0%	6.0%	-6.0%	-6.0%
PT	266WB+52.51						
REVERSE CROWN	267WB+72.51	-4.0%	2.0%	2.0%	2.0%	-2.0%	-4.0%
LEVEL CROWN	268WB+92.51	-4.0%	0.0%	0.0%	2.0%	-2.0%	-4.0%
BEGIN NORMAL CROWN	270WB+12.51	-4.0%	-2.0%	-2.0%	2.0%	-2.0%	-4.0%

*POINT OF ROTATION = REFERENCE LINE

2



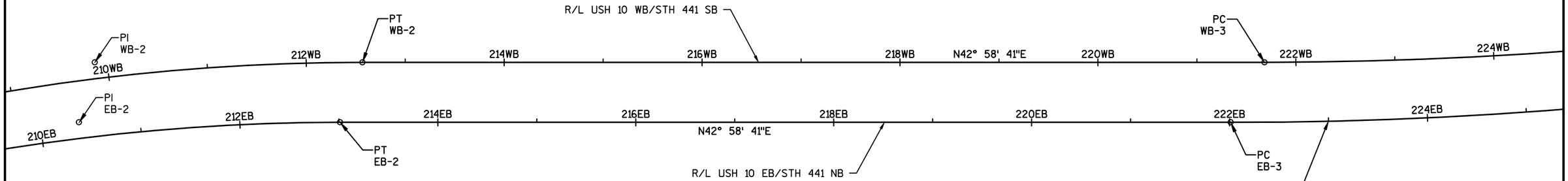
CURVE: EB-1
PC STA = 179EB+02.05
Y = 546283.247
X = 814712.482
PI STA = 191EB+10.01
Y = 546278.673
X = 815920.425
PT STA = 200EB+83.29
Y = 547335.636
X = 816505.214
DELTA = 61°15'45"
D = 2°48'31"
T = 1207.95'
L = 2181.23'
R = 2040.00'
BK = S89°46'59.0"E
AH = N28°57'16.4"E
POINT OF ROTATION = REFERENCE LINE

CURVE: EB-2
PC STA = 207EB+76.23
Y = 547941.968
X = 816840.681
PI STA = 210EB+40.05
Y = 548172.811
X = 816968.400
PT STA = 213EB+01.23
Y = 548365.825
X = 817148.250
DELTA = 14°01'25"
D = 2°40'16"
T = 263.82'
L = 525.00'
R = 2145.00'
BK = N28°57'16.4"E
AH = N42°58'40.9"E
POINT OF ROTATION = REFERENCE LINE

CURVE: WB-1
PC STA = 177WB+72.55
Y = 546334.737
X = 814583.174
PI STA = 190WB+75.25
Y = 546329.804
X = 815885.858
PT STA = 201WB+24.86
Y = 547469.666
X = 816516.512
DELTA = 61°15'45"
D = 2°36'16"
T = 1302.69'
L = 2352.31'
R = 2200.00'
BK = S89°46'59.0"E
AH = N28°57'16.4"E
POINT OF ROTATION = REFERENCE LINE

CURVE: WB-2
PC STA = 207WB+18.45
Y = 547989.057
X = 816803.877
PI STA = 209WB+89.03
Y = 548225.819
X = 816934.871
PT STA = 212WB+56.91
Y = 548423.782
X = 817119.332
DELTA = 14°01'25"
D = 2°36'16"
T = 270.58'
L = 538.46'
R = 2200.00'
BK = N28°57'16.4"E
AH = N42°58'40.9"E
POINT OF ROTATION = REFERENCE LINE

2



END PROJECT 1517-75-75
BEGIN PROJECT 1517-75-72
STA 223EB+00.00
Y = 549097.307
X = 817828.287

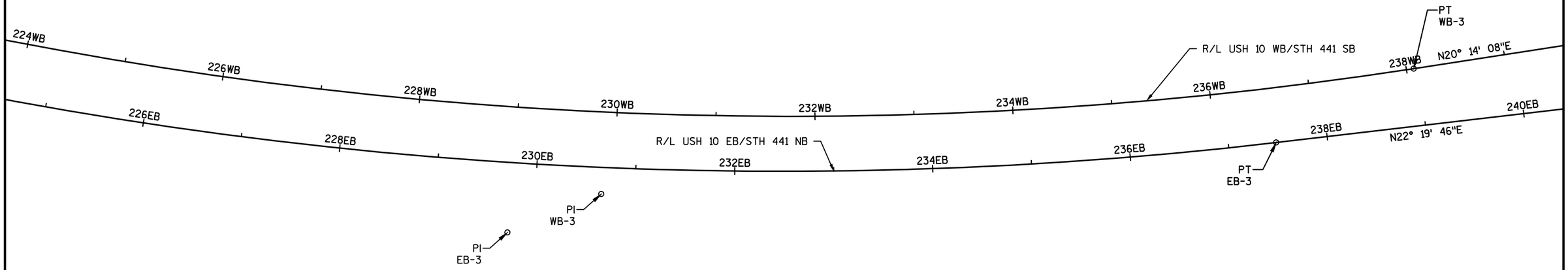
CURVE: EB-2
PC STA = 207EB+76.23
Y = 547941.968
X = 816840.681
PI STA = 210EB+40.05
Y = 548172.811
X = 816968.400
PT STA = 213EB+01.23
Y = 548365.825
X = 817148.250
DELTA = 14°01'25"
D = 2°40'16"
T = 263.82'
L = 525.00'
R = 2145.00'
BK = N28°57'16.4"E
AH = N42°58'40.9"E
POINT OF ROTATION = REFERENCE LINE

CURVE: EB-3
PC STA = 222EB+01.09
Y = 549024.175
X = 817761.699
PI STA = 229EB+83.14
Y = 549596.336
X = 818294.839
PT STA = 237EB+48.23
Y = 550319.747
X = 818591.965
DELTA = 20°38'55"
D = 1°20'05"
T = 782.05'
L = 1547.14'
R = 4293.00'
BK = N42°58'40.9"E
AH = N22°19'45.8"E
POINT OF ROTATION=REFERENCE LINE

CURVE: WB-2
PC STA = 207WB+18.45
Y = 547989.057
X = 816803.877
PI STA = 209WB+89.03
Y = 548225.819
X = 816934.871
PT STA = 212WB+56.91
Y = 548423.782
X = 817119.332
DELTA = 14°01'25"
D = 2°36'16"
T = 270.58'
L = 538.46'
R = 2200.00'
BK = N28°57'16.4"E
AH = N42°58'40.9"E
POINT OF ROTATION = REFERENCE LINE

CURVE: WB-3
PC STA = 221WB+68.20
Y = 549090.496
X = 817740.576
PI STA = 229WB+98.80
Y = 549698.173
X = 818306.809
PT STA = 238WB+07.53
Y = 550477.505
X = 818594.096
DELTA = 22°44'33"
D = 1°23'14"
T = 830.60'
L = 1639.33'
R = 4130.00'
BK = N42°58'40.9"E
AH = N20°14'08.0"E
POINT OF ROTATION = REFERENCE LINE

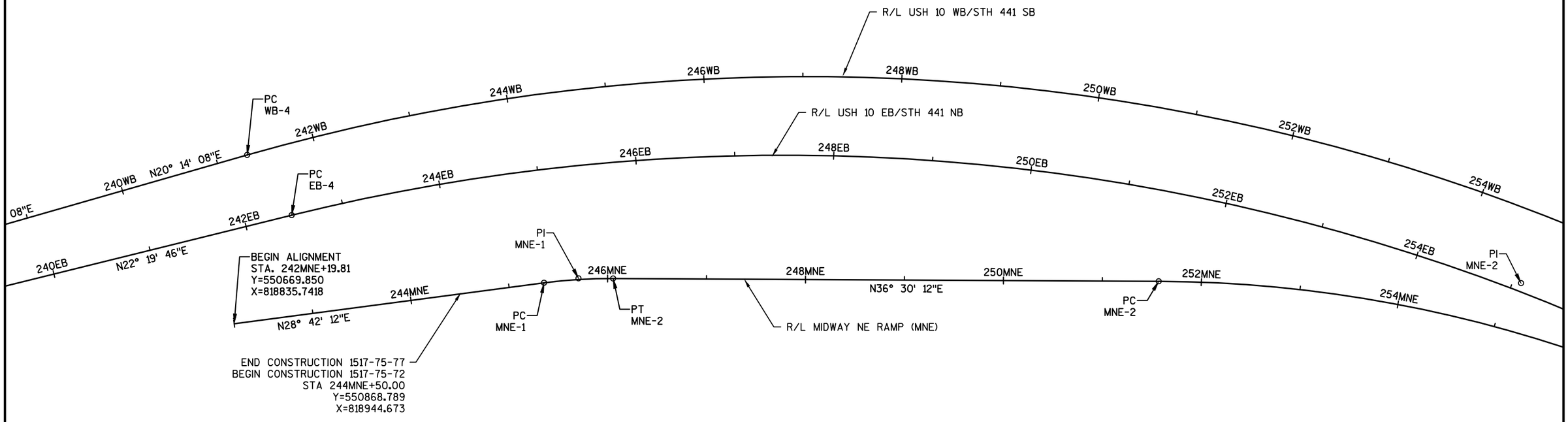
2



CURVE: EB-3
PC STA = 222EB+01.09
Y = 549024.175
X = 817761.699
PI STA = 229EB+83.14
Y = 549596.336
X = 818294.839
PT STA = 237EB+48.23
Y = 550319.747
X = 818591.965
DELTA = 20°38'55"
D = 1°20'05"
T = 782.05'
L = 1547.14'
R = 4293.00'
BK = N42°58'40.9"E
AH = N22°19'45.8"E
POINT OF ROTATION=REFERENCE LINE

CURVE: WB-3
PC STA = 221WB+68.20
Y = 549090.496
X = 817740.576
PI STA = 229WB+98.80
Y = 549698.173
X = 818306.809
PT STA = 238WB+07.53
Y = 550477.505
X = 818594.096
DELTA = 22°44'33"
D = 1°23'14"
T = 830.60'
L = 1639.33'
R = 4130.00'
BK = N42°58'40.9"E
AH = N20°14'08.0"E
POINT OF ROTATION = REFERENCE LINE

2



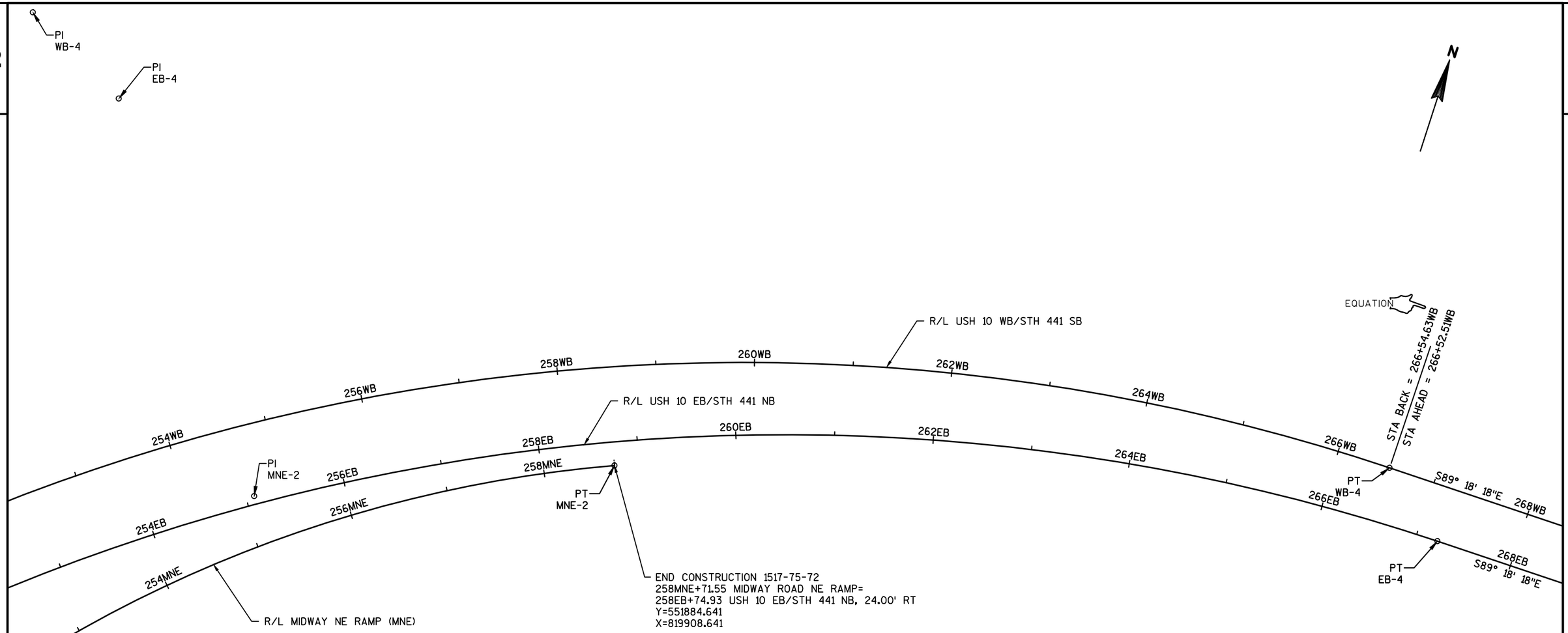
CURVE: MNE-1
PC STA = 245MNE+35.64
Y = 550946.874
X = 818987.430
PI STA = 245MNE+70.75
Y = 550977.669
X = 819004.292
PT STA = 246MNE+05.75
Y = 551005.890
X = 819025.177
DELTA = 7°48'00"
D = 11°07'31"
T = 35.11'
L = 70.11'
R = 515.00'
BK = N28°42'12.3"E
AH = N36°30'12.2"E
POINT OF ROTATION=REFERENCE LINE

CURVE: MNE-2
PC STA = 251MNE+56.94
Y = 551448.947
X = 819353.062
PI STA = 255MNE+23.10
Y = 551743.271
X = 819570.877
PT STA = 258MNE+71.55
Y = 551884.641
X = 819908.641
DELTA = 30°47'06"
D = 4°18'29"
T = 366.16'
L = 714.61'
R = 1330.00'
BK = N36°30'12.2"E
AH = N67°17'18.2"E
POINT OF ROTATION=REFERENCE LINE

CURVE: EB-4
PC STA = 242EB+47.50
Y = 550781.575
X = 818781.651
PI STA = 256EB+56.08
Y = 552084.530
X = 819316.813
PT STA = 267EB+22.20
Y = 552067.445
X = 820725.287
DELTA = 68°21'56"
D = 2°45'45"
T = 1408.58'
L = 2474.71'
R = 2074.00'
BK = N22°19'45.8"E
AH = S89°18'18.1"E
POINT OF ROTATION= REFERENCE LINE

CURVE: WB-4
PC STA = 241WB+31.18
Y = 550781.184
X = 818706.042
PI STA = 255WB+80.30
Y = 552140.863
X = 819207.265
PT STA = 266WB+52.51
Y = 552123.287
X = 820656.279
DELTA = 70°27'34"
D = 2°47'32"
T = 1449.12'
L = 2523.44'
R = 2052.00'
BK = N20°14'08.0"E
AH = S89°18'18.1"E
POINT OF ROTATION = REFERENCE LINE

2



CURVE: MNE-2
PC STA = 251MNE+56.94
Y = 551448.947
X = 819353.062
PI STA = 255MNE+23.10
Y = 551743.271
X = 819570.877
PT STA = 258MNE+71.55
Y = 551884.641
X = 819908.641
DELTA = 30°47'06"
D = 4°18'29"
T = 366.16'
L = 714.61'
R = 1330.00'
BK = N36°30'12.2"E
AH = N67°17'18.2"E
POINT OF ROTATION=REFERENCE LINE

CURVE: EB-4
PC STA = 242EB+47.50
Y = 550781.575
X = 818781.651
PI STA = 256EB+56.08
Y = 552084.530
X = 819316.813
PT STA = 267EB+22.20
Y = 552067.445
X = 820725.287
DELTA = 68°21'56"
D = 2°45'45"
T = 1408.58'
L = 2474.71'
R = 2074.00'
BK = N22°19'45.8"E
AH = S89°18'18.1"E
POINT OF ROTATION= REFERENCE LINE

CURVE: WB-4
PC STA = 241WB+31.18
Y = 550781.184
X = 818706.042
PI STA = 255WB+80.30
Y = 552140.863
X = 819207.265
PT STA = 266WB+52.51
Y = 552123.287
X = 820656.279
DELTA = 70°27'34"
D = 2°47'32"
T = 1449.12'
L = 2523.44'
R = 2052.00'
BK = N20°14'08.0"E
AH = S89°18'18.1"E
POINT OF ROTATION = REFERENCE LINE

PROJECT NO: 1517-75-72	HWY: STH 441/USH 10	COUNTY: WINNEBAGO	ALIGNMENT DETAILS	SHEET 249	E

2

N

R/L USH 10 WB/STH 441 SB

E 268WB 270WB 272WB S89° 18' 18"E 274WB 276WB 278WB S89° 18' 18"E 280WB 282WB

R/L USH 10 EB/STH 441 NB

268EB 270EB 272EB 274EB 276EB 278EB 280EB 282EB

S89° 18' 18"E 1272ASW 1274ASW 1276ASW 1278ASW S89° 18' 18"E

PC ASW-1

PI ASW-1

R/L APPLETON ROAD SW RAMP (ASW)

PT ASW-1

S84° 43' 52"E

1280ASW

PI ASW-2

1282ASW

PT ASW-2

S74° 12' 45"E

PC ASW-2

BEGIN CONSTRUCTION 1517-75-72
1270ASW+26.06 APPLETON ROAD SW RAMP=
270EB+25.98 USH 10 EB/STH 441 NB, 12.00' RT
Y=552051.762
X=821028.895

END CONSTRUCTION 1517-75-72
STA 1278ASW+50.00
Y=552001.799
X=821851.036

CURVE: ASW-1
PC STA = 1270ASW+26.06
Y = 552051.762
X = 821028.895
PI STA = 1273ASW+48.90
Y = 552047.846
X = 821351.707
PT STA = 1276ASW+71.39
Y = 552018.201
X = 821673.179
DELTA = 4°34'26"
D = 0°42'32"
T = 322.84'
L = 645.33'
R = 8084.00'
BK = S89°18'18.1"E
AH = S84°43'52.5"E
POINT OF ROTATION= REFERENCE LINE

PROJECT NO: 1517-75-72	HWY: STH 441/USH 10	COUNTY: WINNEBAGO	ALIGNMENT DETAILS	SHEET 250	E

2

2

N

284WB 286WB S89° 18' 18"E 288WB 290WB 292WB 294WB S89° 18' 18"E 296WB 298WB

R/L USH 10 WB/STH 441 SB

284EB 286EB 288EB 290EB 292EB 294EB 296EB 298EB

S89° 18' 18"E S89° 18' 18"E

R/L USH 10 EB/STH 441 NB

END PROJECT 1517-75-72
STA 288EB+33.56
Y=552041.837
X=822836.489

PT
ASW-2

S74° 12' 45"E 1284ASW

R/L APPLETON ROAD SW RAMP

1286ASW

1288ASW

PC
ASW-3

PI
ASW-3

PT
ASW-3

PC
ASW-4

PI
ASW-4

PT
ASW-4

PROJECT NO: 1517-75-72	HWY: STH 441/USH 10	COUNTY: WINNEBAGO	ALIGNMENT DETAILS	SHEET 251	E

2

N

R/L USH 10 WB/STH 441 SB

298WB 300WB 302WB S89° 18' 18"E 304WB 306WB 308WB S89° 18' 18"E 310WB 312WB

298EB 300EB 302EB 304EB 306EB 308EB 310EB 312EB

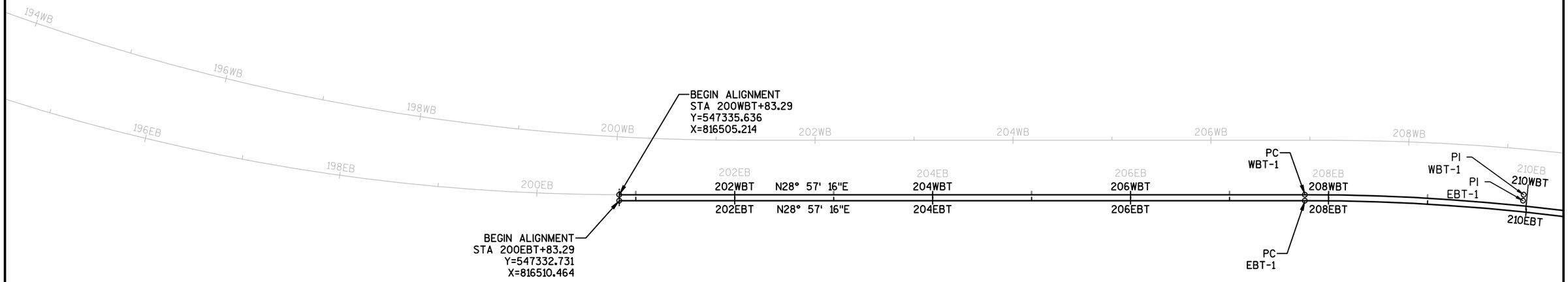
S89° 18' 18"E S89° 18' 18"E

R/L USH 10 EB/STH 441 NB

PROJECT NO: 1517-75-72	HWY: STH 441/USH 10	COUNTY: WINNEBAGO	ALIGNMENT DETAILS	SHEET 252	E

2

CURVE: WBT-1
PI STA = 209+97.34
Y = 548135.430
X = 816947.718
DELTA = 11°46'12"
D = 2°40'16"
T = 221.10'
L = 440.64'
R = 2145.00'
PC STA = 207+76.24
Y = 547941.969
X = 816840.681
PT STA = 212+16.88
Y = 548302.989
X = 817091.967



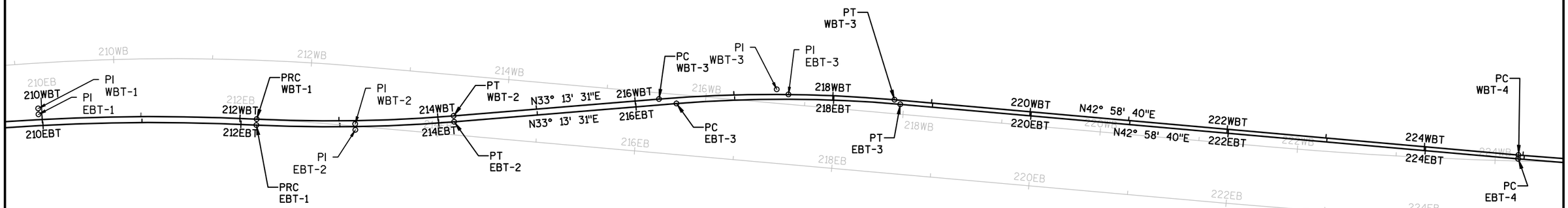
CURVE: EBT-1
PI STA = 209+96.72
Y = 548131.984
X = 816952.669
DELTA = 11°46'12"
D = 2°40'43"
T = 220.48'
L = 439.41'
R = 2139.00'
PC STA = 207+76.24
Y = 547939.064
X = 816845.931
PT STA = 212+15.65
Y = 548299.075
X = 817096.515

PROJECT NO: 1517-75-72	HWY: STH 441/USH 10	COUNTY: WINNEBAGO	ALIGNMENT DETAILS-TEMPORARY	SHEET 253	E

2

CURVE: WBT-2
PI STA = 213+16.63
Y = 548378.585
X = 817157.046
DELTA = 7°29'58"
D = 3°45'52"
T = 99.75'
L = 199.21'
R = 1522.00'
PC STA = 212+16.88
Y = 548302.989
X = 817091.967
PT STA = 214+16.09
Y = 548462.027
X = 817211.701

CURVE: WBT-3
PI STA = 217+43.73
Y = 548736.106
X = 817391.226
DELTA = 9°45'09"
D = 4°05'33"
T = 119.44'
L = 238.30'
R = 1400.00'
PC STA = 216+24.29
Y = 548636.193
X = 817325.782
PT STA = 218+62.59
Y = 548823.489
X = 817472.649



CURVE: EBT-2
PI STA = 213+15.79
Y = 548374.969
X = 817161.850
DELTA = 7°29'58"
D = 3°44'59"
T = 100.14'
L = 200.00'
R = 1528.00'
PC STA = 212+15.65
Y = 548299.075
X = 817096.515
PT STA = 214+15.64
Y = 548458.740
X = 817216.721

CURVE: EBT-3
PI STA = 217+54.58
Y = 548742.267
X = 817402.434
DELTA = 9°45'09"
D = 4°18'29"
T = 113.47'
L = 226.38'
R = 1330.00'
PC STA = 216+41.11
Y = 548647.350
X = 817340.262
PT STA = 218+67.50
Y = 548825.281
X = 817479.786

PROJECT NO: 1517-75-72	HWY: STH 441/USH 10	COUNTY: WINNEBAGO	ALIGNMENT DETAILS-TEMPORARY	SHEET 254	E

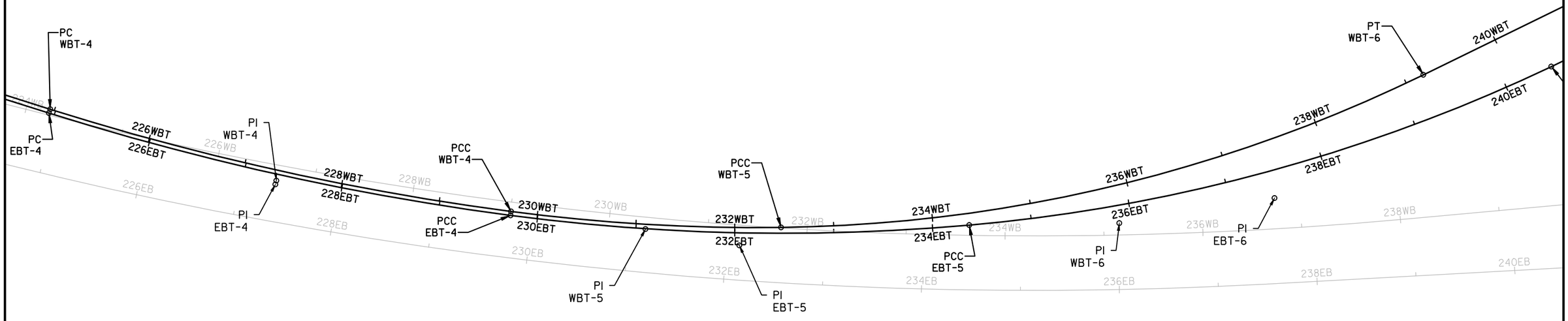
FILE NAME : S:\PDS\C3D\WIS441\15177570_72_77_85\SHEETSPLAN\1517-75-72\027200-AD\NE-15177572-027211-AD.DWG
LAYOUT NAME - 027212-AD
PLOT DATE : 2/10/2017 9:02 AM
PLOT BY : MARTENS, JOHN M
PLOT NAME :
PLOT SCALE : 1 IN:100 FT
WISDOT/CADDS SHEET 42

2

CURVE: WBT-4
PI STA = 227+35.02
Y = 549461.774
X = 818067.396
DELTA = 10°00'28"
D = 2°05'42"
T = 239.45'
L = 477.68'
R = 2734.84'
PC STA = 224+95.57
Y = 549286.587
X = 817904.159
PT STA = 229+73.25
Y = 549662.662
X = 818197.705

CURVE: WBT-5
PI STA = 231+10.29
Y = 549777.632
X = 818272.282
DELTA = 8°13'57"
D = 3°00'32"
T = 137.04'
L = 273.61'
R = 1904.20'
PC STA = 229+73.25
Y = 549662.662
X = 818197.705
PT STA = 232+46.86
Y = 549902.096
X = 818329.628

CURVE: WBT-6
PI STA = 235+88.72
Y = 550212.582
X = 818472.682
DELTA = 25°18'06"
D = 3°45'43"
T = 341.86'
L = 672.57'
R = 1523.02'
PC STA = 232+46.86
Y = 549902.096
X = 818329.628
PT STA = 239+19.43
Y = 550554.422
X = 818469.316



CURVE: EBT-4
PI STA = 227+34.10
Y = 549459.303
X = 818070.561
DELTA = 10°00'28"
D = 2°05'31"
T = 239.80'
L = 478.38'
R = 2738.84'
PC STA = 224+94.30
Y = 549283.860
X = 817907.085
PT STA = 229+72.68
Y = 549660.485
X = 818201.061

CURVE: EBT-5
PI STA = 232+05.88
Y = 549856.129
X = 818327.968
DELTA = 12°34'28"
D = 2°42'25"
T = 233.20'
L = 464.52'
R = 2116.61'
PC STA = 229+72.68
Y = 549660.485
X = 818201.061
PT STA = 234+37.20
Y = 550074.708
X = 818409.238

CURVE: EBT-6
PI STA = 237+46.91
Y = 550365.002
X = 818517.172
DELTA = 20°21'25"
D = 3°19'17"
T = 309.71'
L = 612.89'
R = 1725.00'
PC STA = 234+37.20
Y = 550074.708
X = 818409.238
PT STA = 240+50.09
Y = 550674.711
X = 818517.380

PROJECT NO: 1517-75-72	HWY: STH 441/USH 10	COUNTY: WINNEBAGO	ALIGNMENT DETAILS-TEMPORARY	SHEET 255	E

2

CURVE: WBT-7
PI STA = 248+14.79
Y = 551449.744
X = 818460.498
DELTA = 54°08'33"
D = 5°24'01"
T = 542.27'
L = 1002.61'
R = 1061.00'
PC STA = 242+72.52
Y = 550907.502
X = 818465.838
PT STA = 252+75.13
Y = 551771.702
X = 818896.843

PI
EBT-7

N

PI
WBT-7

240WBT
242WBT
244WBT
246WBT
248WBT
250WBT
252WBT
254WBT
256WBT

240EBT
242EBT
244EBT
246EBT
248EBT
250EBT
252EBT
254EBT
256EBT

PC
WBT-7

PT
WBT-7

PC
EBT-7

PT
EBT-6

PC
WBT-8

N0° 33' 51"W

N0° 02' 19"E

N53° 34' 41"E

CURVE: EBT-7
PI STA = 253+05.12
Y = 551929.733
X = 818518.224
DELTA = 83°33'49"
D = 5°00'30"
T = 1022.20'
L = 1668.48'
R = 1144.00'
PC STA = 242+82.92
Y = 550907.533
X = 818517.537
PT STA = 259+51.39
Y = 552043.639
X = 819534.058

240WB
242WB
244WB
246WB
248WB
250WB
252WB

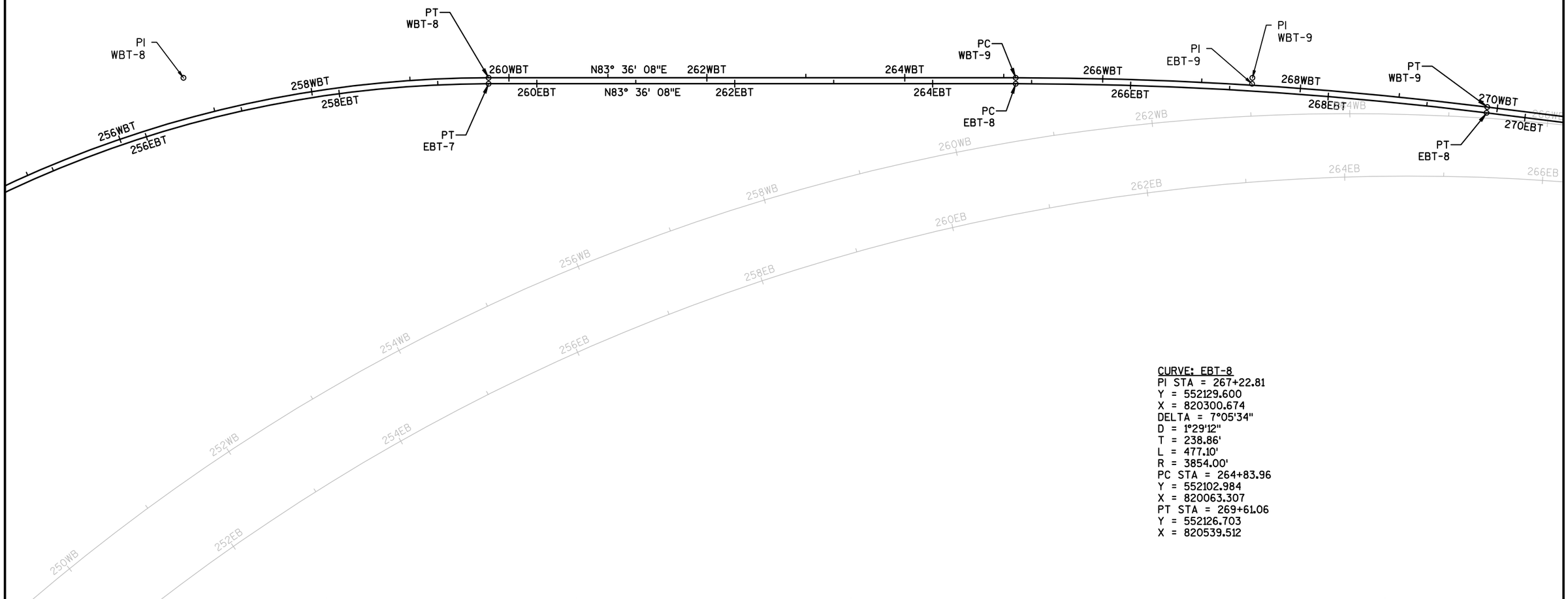
240EB
242EB
244EB
246EB
248EB
250EB
252EB

PROJECT NO: 1517-75-72	HWY: STH 441/USH 10	COUNTY: WINNEBAGO	ALIGNMENT DETAILS-TEMPORARY	SHEET 256	E

2

CURVE: WBT-8
PI STA = 256+85.30
Y = 552015.235
X = 819226.899
DELTA = 30°01'26"
D = 4°58'56"
T = 308.40'
L = 602.62'
R = 1150.00'
PC STA = 253+76.91
Y = 551832.130
X = 818978.740
PT STA = 259+79.53
Y = 552049.600
X = 819533.378

CURVE: WBT-9
PI STA = 267+51.33
Y = 552135.604
X = 820300.375
DELTA = 7°05'34"
D = 1°29'04"
T = 239.23'
L = 477.84'
R = 3860.00'
PC STA = 265+12.10
Y = 552108.947
X = 820062.638
PT STA = 269+89.95
Y = 552132.703
X = 820539.585



CURVE: EBT-8
PI STA = 267+22.81
Y = 552129.600
X = 820300.674
DELTA = 7°05'34"
D = 1°29'12"
T = 238.86'
L = 477.10'
R = 3854.00'
PC STA = 264+83.96
Y = 552102.984
X = 820063.307
PT STA = 269+61.06
Y = 552126.703
X = 820539.512

PROJECT NO: 1517-75-72	HWY: STH 441/USH 10	COUNTY: WINNEBAGO	ALIGNMENT DETAILS-TEMPORARY	SHEET 257	E

2

N

OWBT 272WBT S89° 18' 18"E 274WBT 276WBT 278WBT 280WBT 282WBT 284WBT

270EBT 272EBT S89° 18' 18"E 274EBT 276EBT 278EBT 280EBT 282EBT 284EBT

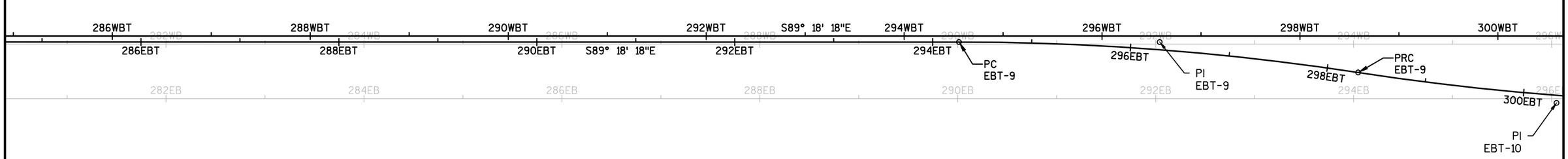
266WB 268WB 270WB 272WB 274WB 276WB 278WB 280WB

266EB 268EB 270EB 272EB 274EB 276EB 278EB 280EB

PROJECT NO:1517-75-72	HWY: STH 441/USH 10	COUNTY: WINNEBAGO	ALIGNMENT DETAILS-TEMPORARY	SHEET 258	E

2

N



CURVE: EBT-9
PI STA = 296+29.57
Y = 552094.337
X = 823207.823
DELTA = 8°43'14"
D = 2°09'14"
T = 202.82'
L = 404.85'
R = 2660.00'
PC STA = 294+26.75
Y = 552096.797
X = 823005.020
PT STA = 298+31.60
Y = 552061.157
X = 823407.909

CURVE: EBT-10
PI STA = 300+34.42
Y = 552027.978
X = 823607.995
DELTA = 8°43'14"
D = 2°09'14"
T = 202.82'
L = 404.85'
R = 2660.00'
PC STA = 298+31.60
Y = 552061.157
X = 823407.909
PT STA = 302+36.46
Y = 552025.518
X = 823810.799

PROJECT NO: 1517-75-72	HWY: STH 441/USH 10	COUNTY: WINNEBAGO	ALIGNMENT DETAILS-TEMPORARY	SHEET 259	E

FILE NAME : S:\PDS\C3D\WIS441\15177570_72_77_85\SHEETSPLAN\1517-75-72\027200-AD\NE-15177572-027211-AD.DWG
LAYOUT NAME - 027217-AD
PLOT DATE : 2/10/2017 9:02 AM
PLOT BY : MARTENS, JOHN M
PLOT NAME :
PLOT SCALE : 1 IN:100 FT
WISDOT/CADDS SHEET 42

2

N

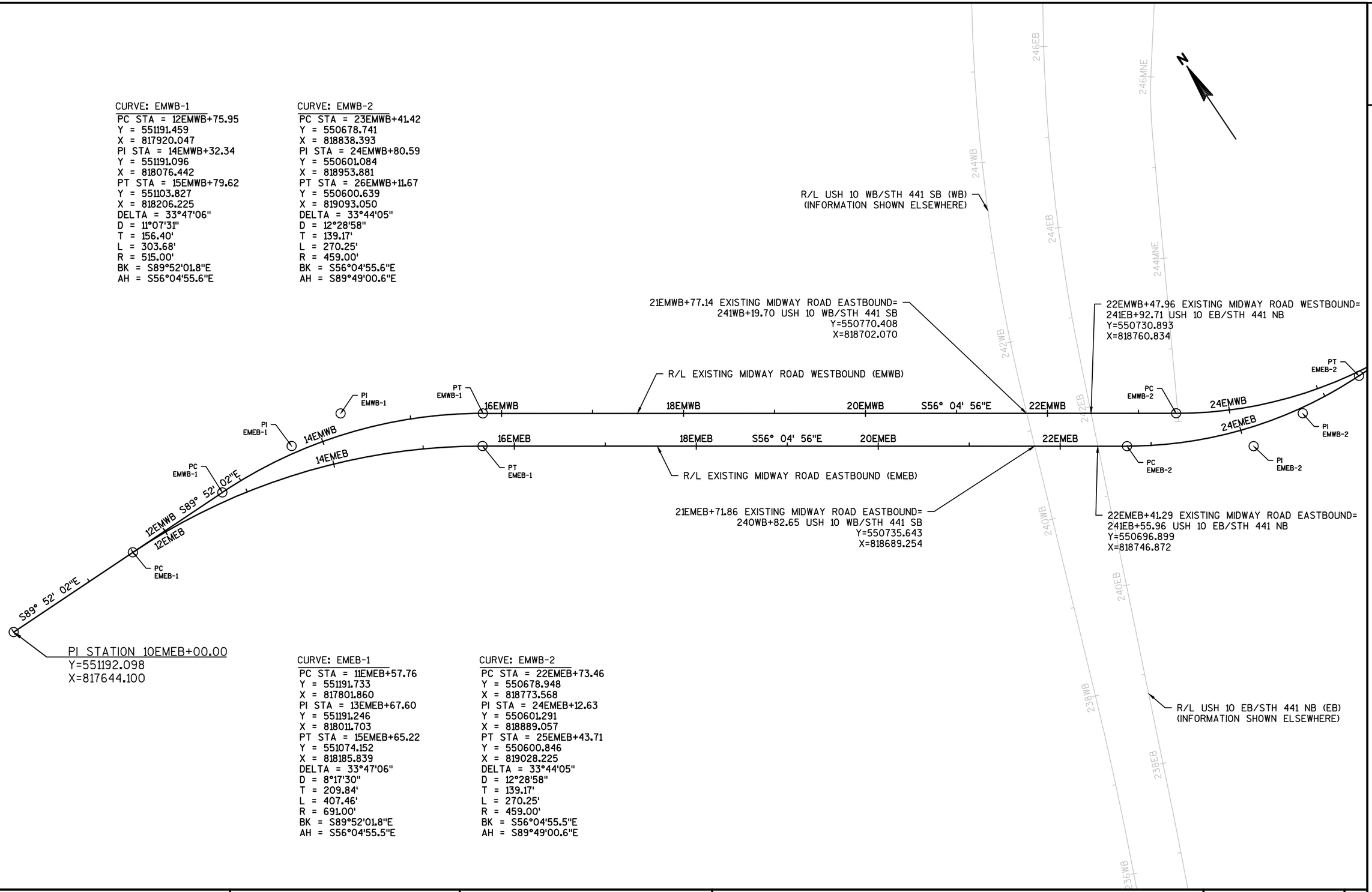
END ALIGNMENT
STA 305WBT+54.22
Y=552089.471
X=824103.600

PROJECT NO: 1517-75-72	HWY: STH 441/USH 10	COUNTY: WINNEBAGO	ALIGNMENT DETAILS-TEMPORARY	SHEET 260	E

2

CURVE: EMWB-1
PC STA = 12EMWB+75.95
Y = 551191.459
X = 817920.047
PI STA = 14EMWB+32.34
Y = 551191.096
X = 818076.442
PT STA = 15EMWB+79.62
Y = 551103.827
X = 818206.225
DELTA = 33°47'06"
D = 11°07'31"
T = 156.40'
L = 303.68'
R = 515.00'
BK = S89°52'01.8"E
AH = S56°04'55.6"E

CURVE: EMWB-2
PC STA = 23EMWB+41.42
Y = 550678.741
X = 818838.393
PI STA = 24EMWB+80.59
Y = 550601.084
X = 818953.881
PT STA = 26EMWB+11.67
Y = 550600.639
X = 819093.050
DELTA = 33°44'05"
D = 12°28'58"
T = 139.17'
L = 270.25'
R = 459.00'
BK = S56°04'55.6"E
AH = S89°49'00.6"E



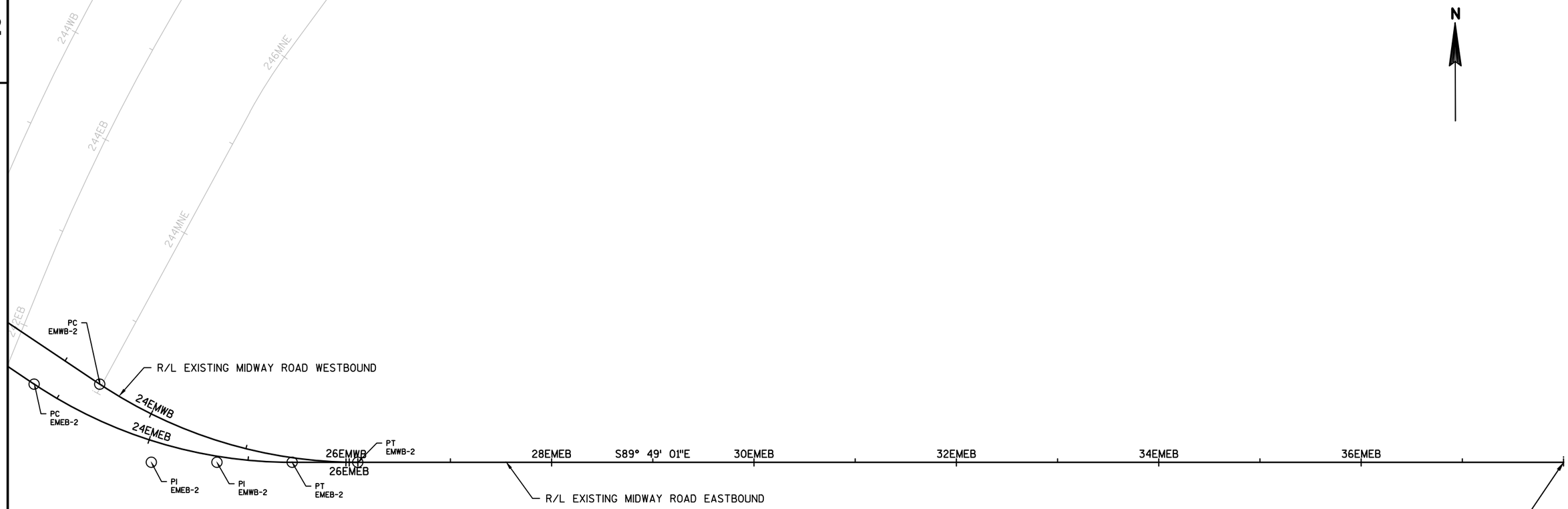
PI STATION 10EMEB+00.00
Y=551192.098
X=817644.100

CURVE: EMEB-1
PC STA = 11EMEB+57.76
Y = 551191.733
X = 817801.860
PI STA = 13EMEB+67.60
Y = 551191.246
X = 818011.703
PT STA = 15EMEB+65.22
Y = 551074.152
X = 818185.839
DELTA = 33°47'06"
D = 8°17'30"
T = 209.84'
L = 407.46'
R = 691.00'
BK = S89°52'01.8"E
AH = S56°04'55.5"E

CURVE: EMWB-2
PC STA = 22EMEB+73.46
Y = 550678.948
X = 818773.568
PI STA = 24EMEB+12.63
Y = 550601.291
X = 818889.057
PT STA = 25EMEB+43.71
Y = 550600.846
X = 819028.225
DELTA = 33°44'05"
D = 12°28'58"
T = 139.17'
L = 270.25'
R = 459.00'
BK = S56°04'55.5"E
AH = S89°49'00.6"E

PROJECT NO: 1517-75-72	HWY: STH 441/USH 10	COUNTY: WINNEBAGO	ALIGNMENT DETAILS-EXISTING	SHEET 261	E

2



CURVE: EMEB-2

PC STA = 22EMEB+73.46
Y = 550678.948
X = 818773.568
PI STA = 24EMEB+12.63
Y = 550601.291
X = 818889.057
PT STA = 25EMEB+43.71
Y = 550600.846
X = 819028.225
DELTA = 33°44'05"
D = 12°28'58"
T = 139.17'
L = 270.25'
R = 459.00'
BK = S56°04'55.5"E
AH = S89°49'00.6"E

CURVE: EMWB-2

PC STA = 23EMWB+41.42
Y = 550678.741
X = 818838.393
PI STA = 24EMWB+80.59
Y = 550601.084
X = 818953.881
PT STA = 26EMWB+11.67
Y = 550600.639
X = 819093.050
DELTA = 33°44'05"
D = 12°28'58"
T = 139.17'
L = 270.25'
R = 459.00'
BK = S56°04'55.6"E
AH = S89°49'00.6"E

1517-75-72

Line	Item	Item Description	Unit	Total	Qty
0010	201.0105	Clearing	STA	23.000	23.000
0020	201.0205	Grubbing	STA	23.000	23.000
0030	203.0100	Removing Small Pipe Culverts	EACH	14.000	14.000
0040	203.0200	Removing Old Structure (station) 01. 241EBT+51	LS	1.000	1.000
0050	203.0200	Removing Old Structure (station) 02. 241WBT+71	LS	1.000	1.000
0060	204.0100	Removing Pavement	SY	45,116.000	45,116.000
0070	204.0110	Removing Asphaltic Surface	SY	41,330.000	41,330.000
0080	204.0150	Removing Curb & Gutter	LF	1,234.000	1,234.000
0090	204.0165	Removing Guardrail	LF	272.000	272.000
0100	204.0170	Removing Fence	LF	4,229.000	4,229.000
0110	204.0175	Removing Concrete Slope Paving	SY	715.000	715.000
0120	204.0180	Removing Delineators and Markers	EACH	50.000	50.000
0130	204.0190	Removing Surface Drains	EACH	2.000	2.000
0140	204.0210	Removing Manholes	EACH	1.000	1.000
0150	204.0220	Removing Inlets	EACH	17.000	17.000
0160	204.0245	Removing Storm Sewer (size) 01. 6-Inch to 18-Inch	LF	1,258.000	1,258.000
0170	204.0245	Removing Storm Sewer (size) 02. 21-Inch to 30-Inch	LF	517.000	517.000
0180	205.0100	Excavation Common	CY	327,003.000	327,003.000
0190	206.1000	Excavation for Structures Bridges (structure) 01. B-70-423	LS	1.000	1.000
0200	206.1000	Excavation for Structures Bridges (structure) 02. B-70-424	LS	1.000	1.000
0210	210.1500	Backfill Structure Type A	TON	1,627.000	1,627.000
0220	213.0100	Finishing Roadway (project) 01. 1517-75-72	EACH	1.000	1.000
0230	305.0110	Base Aggregate Dense 3/4-Inch	TON	9,471.000	9,471.000
0240	305.0120	Base Aggregate Dense 1 1/4-Inch	TON	16,540.000	16,540.000
0250	311.0110	Breaker Run	TON	59,734.000	59,734.000
0260	320.0155	Concrete Base 9-Inch	SY	755.000	755.000
0270	415.0410	Concrete Pavement Approach Slab	SY	120.000	120.000
0280	416.1010	Concrete Surface Drains	CY	8.000	8.000
0290	440.4410	Incentive IRI Ride	DOL	15,150.000	15,150.000
0300	455.0605	Tack Coat	GAL	640.000	640.000
0310	460.2000	Incentive Density HMA Pavement	DOL	1,450.000	1,450.000
0320	460.5223	HMA Pavement 3 LT 58-28 S	TON	752.000	752.000
0330	460.5224	HMA Pavement 4 LT 58-28 S	TON	474.000	474.000
0340	460.7423	HMA Pavement 3 HT 58-28 H	TON	607.000	607.000
0350	460.7424	HMA Pavement 4 HT 58-28 H	TON	222.000	222.000
0360	465.0105	Asphaltic Surface	TON	1,084.000	1,084.000
0370	501.1000.S	Ice Hot Weather Concreting	LB	10,950.000	10,950.000
0380	502.3200	Protective Surface Treatment	SY	3,791.000	3,791.000

1517-75-72

Line	Item	Item Description	Unit	Total	Qty
0390	502.3210	Pigmented Surface Sealer	SY	1,168.000	1,168.000
0400	503.0146	Prestressed Girder Type I 45W-Inch	LF	3,158.000	3,158.000
0410	504.0500	Concrete Masonry Retaining Walls	CY	847.000	847.000
0420	505.0400	Bar Steel Reinforcement HS Structures	LB	22,210.000	22,210.000
0430	505.0600	Bar Steel Reinforcement HS Coated Structures	LB	345,760.000	345,760.000
0440	506.2605	Bearing Pads Elastomeric Non-Laminated	EACH	68.000	68.000
0450	506.4000	Steel Diaphragms (structure) 01. B-70-423	EACH	28.000	28.000
0460	506.4000	Steel Diaphragms (structure) 02. B-70-424	EACH	24.000	24.000
0470	511.1200	Temporary Shoring (structure) 01. S-70-0218	SF	160.000	160.000
0480	513.2001	Railing Pipe (structure) 01. R-70-150	LF	14.000	14.000
0490	516.0500	Rubberized Membrane Waterproofing	SY	138.000	138.000
0500	517.1010.S	Concrete Staining (structure) 01. B-70-423	SF	5,315.000	5,315.000
0510	517.1010.S	Concrete Staining (structure) 02. B-70-424	SF	5,425.000	5,425.000
0520	517.1010.S	Concrete Staining (structure) 03. R-70-150	SF	6,415.000	6,415.000
0530	517.1010.S	Concrete Staining (structure) 04. R-70-151	SF	755.000	755.000
0540	517.1010.S	Concrete Staining (structure) 05. R-70-142	SF	16,785.000	16,785.000
0550	517.1050.S	Architectural Surface Treatment (structure) 01. B-70-423	SF	975.000	975.000
0560	517.1050.S	Architectural Surface Treatment (structure) 02. B-70-424	SF	1,140.000	1,140.000
0570	517.1050.S	Architectural Surface Treatment (structure) 03. R-70-150	SF	5,065.000	5,065.000
0580	517.1050.S	Architectural Surface Treatment (structure) 04. R-70-151	SF	462.000	462.000
0590	517.1050.S	Architectural Surface Treatment (structure) 05. R-70-142	SF	12,115.000	12,115.000
0600	520.8000	Concrete Collars for Pipe	EACH	11.000	11.000
0610	521.0112	Culvert Pipe Corrugated Steel 12-Inch	LF	33.000	33.000
0620	521.0118	Culvert Pipe Corrugated Steel 18-Inch	LF	162.000	162.000
0630	521.1012	Apron Endwalls for Culvert Pipe Steel 12-Inch	EACH	1.000	1.000
0640	521.1018	Apron Endwalls for Culvert Pipe Steel 18-Inch	EACH	1.000	1.000
0650	521.2005.S	Surface Drain Pipe Corrugated Metal Slotted (inch) 01. 12-INCH	LF	112.000	112.000
0660	522.0136	Culvert Pipe Reinforced Concrete Class III 36-Inch	LF	274.000	274.000
0670	522.0148	Culvert Pipe Reinforced Concrete Class III 48-Inch	LF	80.000	80.000
0680	522.1015	Apron Endwalls for Culvert Pipe Reinforced Concrete 15-Inch	EACH	3.000	3.000
0690	522.1018	Apron Endwalls for Culvert Pipe Reinforced Concrete 18-Inch	EACH	8.000	8.000
0700	522.1024	Apron Endwalls for Culvert Pipe Reinforced Concrete 24-Inch	EACH	5.000	5.000

1517-75-72

Line	Item	Item Description	Unit	Total	Qty
0710	522.1030	Apron Endwalls for Culvert Pipe Reinforced Concrete 30-Inch	EACH	1.000	1.000
0720	522.1036	Apron Endwalls for Culvert Pipe Reinforced Concrete 36-Inch	EACH	2.000	2.000
0730	522.1048	Apron Endwalls for Culvert Pipe Reinforced Concrete 48-Inch	EACH	4.000	4.000
0740	525.0336	Aluminum Apron Endwalls for Aluminum Culvert Pipe 36-Inch	EACH	1.000	1.000
0750	531.0300.S	Noise Barriers Double-Sided Sound Absorptive (structure) 01. N-70-132	SF	11,600.000	11,600.000
0760	550.0010	Pre-Boring Unconsolidated Materials	LF	80.000	80.000
0770	550.1100	Piling Steel HP 10-Inch X 42 Lb	LF	140.000	140.000
0780	550.1120	Piling Steel HP 12-Inch X 53 Lb	LF	5,240.000	5,240.000
0790	601.0411	Concrete Curb & Gutter 30-Inch Type D	LF	890.000	890.000
0800	603.1132	Concrete Barrier Type S32	LF	538.000	538.000
0810	603.1156	Concrete Barrier Type S56	LF	3,862.000	3,862.000
0820	603.3513	Concrete Barrier Transition Type S32 to S36	EACH	1.000	1.000
0830	603.3535	Concrete Barrier Transition Type S36 to S42	EACH	1.000	1.000
0840	603.8000	Concrete Barrier Temporary Precast Delivered	LF	36,774.000	36,774.000
0850	603.8125	Concrete Barrier Temporary Precast Installed	LF	36,774.000	36,774.000
0860	604.0400	Slope Paving Concrete	SY	36.000	36.000
0870	604.0600	Slope Paving Select Crushed Material	SY	705.000	705.000
0880	606.0200	Riprap Medium	CY	868.000	868.000
0890	606.0300	Riprap Heavy	CY	18.000	18.000
0900	608.0315	Storm Sewer Pipe Reinforced Concrete Class III 15-Inch	LF	1,857.000	1,857.000
0910	608.0318	Storm Sewer Pipe Reinforced Concrete Class III 18-Inch	LF	766.000	766.000
0920	608.0324	Storm Sewer Pipe Reinforced Concrete Class III 24-Inch	LF	4,011.000	4,011.000
0930	608.0330	Storm Sewer Pipe Reinforced Concrete Class III 30-Inch	LF	161.000	161.000
0940	608.0336	Storm Sewer Pipe Reinforced Concrete Class III 36-Inch	LF	261.000	261.000
0950	611.0410	Reconstructing Catch Basins	EACH	1.000	1.000
0960	611.0420	Reconstructing Manholes	EACH	1.000	1.000
0970	611.0535	Manhole Covers Type J-Special	EACH	13.000	13.000
0980	611.0642	Inlet Covers Type MS	EACH	8.000	8.000
0990	611.0654	Inlet Covers Type V	EACH	72.000	72.000
1000	611.1005	Catch Basins 5-FT Diameter	EACH	5.000	5.000
1010	611.2004	Manholes 4-FT Diameter	EACH	8.000	8.000
1020	611.2005	Manholes 5-FT Diameter	EACH	4.000	4.000

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Line	Item	Item Description	Unit	Total	Qty
1030	611.3004	Inlets 4-FT Diameter	EACH	21.000	21.000
1040	611.3225	Inlets 2x2.5-FT	EACH	45.000	45.000
1050	611.3902	Inlets Median 2 Grate	EACH	4.000	4.000
1060	612.0406	Pipe Underdrain Wrapped 6-Inch	LF	2,025.000	2,025.000
1070	614.0150	Anchor Assemblies for Steel Plate Beam Guard	EACH	4.000	4.000
1080	614.0397	Guardrail Mow Strip Emulsified Asphalt	SY	696.000	696.000
1090	614.0905	Crash Cushions Temporary	EACH	6.000	6.000
1100	614.2300	MGS Guardrail 3	LF	1,395.000	1,395.000
1110	614.2500	MGS Thrie Beam Transition	LF	117.000	117.000
1120	614.2610	MGS Guardrail Terminal EAT	EACH	3.000	3.000
1130	614.2620	MGS Guardrail Terminal Type 2	EACH	2.000	2.000
1140	616.0206	Fence Chain Link 6-FT	LF	1,880.000	1,880.000
1150	618.0100	Maintenance And Repair of Haul Roads (project) 01. 1517-75-72	EACH	1.000	1.000
1160	619.1000	Mobilization	EACH	1.000	1.000
1170	624.0100	Water	MGAL	364.000	364.000
1180	625.0500	Salvaged Topsoil	SY	127,416.000	127,416.000
1190	628.1504	Silt Fence	LF	1,037.000	1,037.000
1200	628.1520	Silt Fence Maintenance	LF	1,037.000	1,037.000
1210	628.1905	Mobilizations Erosion Control	EACH	3.000	3.000
1220	628.1910	Mobilizations Emergency Erosion Control	EACH	6.000	6.000
1230	628.2004	Erosion Mat Class I Type B	SY	115,833.000	115,833.000
1240	628.7005	Inlet Protection Type A	EACH	75.000	75.000
1250	628.7010	Inlet Protection Type B	EACH	74.000	74.000
1260	628.7020	Inlet Protection Type D	EACH	2.000	2.000
1270	628.7504	Temporary Ditch Checks	LF	396.000	396.000
1280	628.7555	Culvert Pipe Checks	EACH	12.000	12.000
1290	628.7560	Tracking Pads	EACH	5.000	5.000
1300	628.7570	Rock Bags	EACH	110.000	110.000
1310	629.0210	Fertilizer Type B	CWT	79.000	79.000
1320	630.0130	Seeding Mixture No. 30	LB	2,292.000	2,292.000
1330	630.0200	Seeding Temporary	LB	1,218.000	1,218.000
1340	634.0614	Posts Wood 4x6-Inch X 14-FT	EACH	2.000	2.000
1350	634.0616	Posts Wood 4x6-Inch X 16-FT	EACH	2.000	2.000
1360	634.0618	Posts Wood 4x6-Inch X 18-FT	EACH	4.000	4.000
1370	635.0200	Sign Supports Structural Steel HS	LB	1,329.000	1,329.000
1380	636.0100	Sign Supports Concrete Masonry	CY	56.400	56.400
1390	636.0500	Sign Supports Steel Reinforcement	LB	136.000	136.000
1400	636.1500	Sign Supports Steel Coated Reinforcement HS	LB	6,040.000	6,040.000
1410	637.1220	Signs Type I Reflective SH	SF	843.500	843.500

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Line	Item	Item Description	Unit	Total	Qty
1420	637.2210	Signs Type II Reflective H	SF	108.250	108.250
1430	638.2101	Moving Signs Type I	EACH	1.000	1.000
1440	638.2102	Moving Signs Type II	EACH	7.000	7.000
1450	638.2601	Removing Signs Type I	EACH	2.000	2.000
1460	638.2602	Removing Signs Type II	EACH	34.000	34.000
1470	638.3000	Removing Small Sign Supports	EACH	41.000	41.000
1480	638.3100	Removing Structural Steel Sign Supports	EACH	4.000	4.000
1490	638.4000	Moving Small Sign Supports	EACH	5.000	5.000
1500	641.6600	Sign Bridge (structure) 01. S-70-226	LS	1.000	1.000
1510	642.5401	Field Office Type D	EACH	1.000	1.000
1520	643.0200.S	Traffic Control Surveillance and Maintenance (project) 01. 1517-75-72	DAY	545.000	545.000
1530	643.0300	Traffic Control Drums	DAY	132,140.000	132,140.000
1540	643.0420	Traffic Control Barricades Type III	DAY	13,315.000	13,315.000
1550	643.0705	Traffic Control Warning Lights Type A	DAY	25,550.000	25,550.000
1560	643.0715	Traffic Control Warning Lights Type C	DAY	33,015.000	33,015.000
1570	643.0900	Traffic Control Signs	DAY	33,070.000	33,070.000
1580	643.0920	Traffic Control Covering Signs Type II	EACH	1.000	1.000
1590	643.1050	Traffic Control Signs PCMS	DAY	168.000	168.000
1600	645.0120	Geotextile Type HR	SY	26.000	26.000
1610	646.0106	Pavement Marking Epoxy 4-Inch	LF	66,117.000	66,117.000
1620	646.0126	Pavement Marking Epoxy 8-Inch	LF	8,102.000	8,102.000
1630	646.0600	Removing Pavement Markings	LF	259,810.000	259,810.000
1640	649.0400	Temporary Pavement Marking Removable Tape 4-Inch	LF	2,104.000	2,104.000
1650	649.0403	Temporary Pavement Marking Epoxy 4-Inch	LF	57,197.000	57,197.000
1660	649.0801	Temporary Pavement Marking Removable Tape 8-Inch	LF	240.000	240.000
1670	649.0803	Temporary Pavement Marking Epoxy 8-Inch	LF	6,366.000	6,366.000
1680	652.0125	Conduit Rigid Metallic 2-Inch	LF	220.000	220.000
1690	652.0225	Conduit Rigid Nonmetallic Schedule 40 2-Inch	LF	1,632.000	1,632.000
1700	653.0180	Pull Boxes Steel Communications (inch) 01. 24X36-Inch	EACH	5.000	5.000
1710	654.0107	Concrete Bases Type 7	EACH	5.000	5.000
1720	655.0610	Electrical Wire Lighting 12 AWG	LF	990.000	990.000
1730	655.0615	Electrical Wire Lighting 10 AWG	LF	1,953.000	1,953.000
1740	655.0620	Electrical Wire Lighting 8 AWG	LF	6,135.000	6,135.000
1750	655.0625	Electrical Wire Lighting 6 AWG	LF	2,457.000	2,457.000
1760	657.0210	Transformer Bases Breakaway 15-17 Inch Bolt Circle	EACH	5.000	5.000
1770	657.0337	Poles Type 17-Aluminum	EACH	5.000	5.000
1780	657.0730	Luminaire Arms Truss Type 6-Inch Clamp 12-FT	EACH	6.000	6.000
1790	659.1125	Luminaires Utility LED C	EACH	6.000	6.000
1800	671.0112	Conduit HDPE 1-Duct 2-Inch	LF	58.000	58.000

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Line	Item	Item Description	Unit	Total	Qty
1810	671.0122	Conduit HDPE 2-Duct 2-Inch	LF	56.000	56.000
1820	671.0212	Conduit HDPE Directional Bore 1-Duct 2-Inch	LF	286.000	286.000
1830	672.0250	Base Camera Pole 50-FT	EACH	1.000	1.000
1840	677.0150	Install Camera Pole 50-FT	EACH	1.000	1.000
1850	690.0150	Sawing Asphalt	LF	1,490.000	1,490.000
1860	690.0250	Sawing Concrete	LF	2,426.000	2,426.000
1870	715.0415	Incentive Strength Concrete Pavement	DOL	14,063.000	14,063.000
1880	715.0502	Incentive Strength Concrete Structures	DOL	4,110.000	4,110.000
1890	999.1500.S	Crack and Damage Survey	LS	1.000	1.000
1900	ASP.1T0A	On-the-Job Training Apprentice at $5.00/HR	HRS	2,100.000	2,100.000
1910	ASP.1T0G	On-the-Job Training Graduate at $5.00/HR	HRS	5,760.000	5,760.000
1920	SPV.0035	Special 003. Roadway Embankment	CY	329,033.000	329,033.000
1930	SPV.0035	Special 004. Drainage Blanket	CY	19,876.000	19,876.000
1940	SPV.0035	Special 700. Modified High Performance Concrete (HPC) Masonry Structures	CY	1,459.000	1,459.000
1950	SPV.0060	Special 001. CPM Baseline Schedule	EACH	1.000	1.000
1960	SPV.0060	Special 002. CPM Schedule Monthly Updates	EACH	15.000	15.000
1970	SPV.0060	Special 005. Vibrating Wire Piezometer Instrumentation System Delivered	EACH	6.000	6.000
1980	SPV.0060	Special 006. Settlement Gauges	EACH	12.000	12.000
1990	SPV.0060	Special 016. Bolting Inlet Covers	EACH	8.000	8.000
2000	SPV.0060	Special 203. Maintenance and Removal of Crash Cushions Temporary Left in Place by Others	EACH	2.000	2.000
2010	SPV.0060	Special 204. Crash Cushions Temporary Left In Place	EACH	1.000	1.000
2020	SPV.0060	Special 205. Maintain Traffic Control Signs Left In Place	EACH	20.000	20.000
2030	SPV.0060	Special 206. Maintain Traffic Control Drums Left In Place	EACH	94.000	94.000
2040	SPV.0060	Special 207. Maintain Traffic Control Barricades Left In Place	EACH	10.000	10.000
2050	SPV.0060	Special 208. Maintain Traffic Control Warning Lights Type A Left In Place	EACH	20.000	20.000
2060	SPV.0060	Special 209. Maintain Traffic Control Warning Lights Type C Left In Place	EACH	8.000	8.000
2070	SPV.0060	Special 210. Traffic Control Signs Left in Place	EACH	44.000	44.000
2080	SPV.0060	Special 211. Traffic Control Drums Left In Place	EACH	142.000	142.000
2090	SPV.0060	Special 212. Traffic Control Barricades Left In Place	EACH	17.000	17.000
2100	SPV.0060	Special 213. Traffic Control Warning Lights Type A Left In Place	EACH	34.000	34.000
2110	SPV.0060	Special 214. Traffic Control Warning Lights Type C Left In Place	EACH	45.000	45.000
2120	SPV.0060	Special 215. Temporary Thrie Beam Connection Left In Place	EACH	3.000	3.000

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Line	Item	Item Description	Unit	Total	Qty
2130	SPV.0060	Special 350. Pull Box Non-Conductive 24X42-INCH	EACH	4.000	4.000
2140	SPV.0060	Special 400. Remove and Relocate Camera Assembly	EACH	1.000	1.000
2150	SPV.0060	Special 401. Remove and Relocate Ethernet Switch	EACH	1.000	1.000
2160	SPV.0060	Special 402. Remove and Relocate Video Encoder	EACH	1.000	1.000
2170	SPV.0060	Special 403. Remove and Relocate Radio Link	EACH	2.000	2.000
2180	SPV.0060	Special 405. Remove and Relocate Pole Mounted Cabinet	EACH	1.000	1.000
2190	SPV.0060	Special 406. Remove Wood Pole	EACH	1.000	1.000
2200	SPV.0060	Special 407. Removing and Deliver Existing Ramp Gates	EACH	2.000	2.000
2210	SPV.0060	Special 701. Junction Boxes Fiberglass 18x12x12-Inch	EACH	2.000	2.000
2220	SPV.0060	Special 850. Anchor Assemblies Sign Bridge	EACH	4.000	4.000
2230	SPV.0075	Special 015. Street Sweeping	HRS	100.000	100.000
2240	SPV.0090	Special 007. Prefabricated Vertical Drains	LF	948,120.000	948,120.000
2250	SPV.0090	Special 008. Prebored Prefabricated Vertical Drains	LF	632,080.000	632,080.000
2260	SPV.0090	Special 009. 6-Inch Geocomposite Strip Drains	LF	92,962.000	92,962.000
2270	SPV.0090	Special 017. Temporary Shielding	LF	1,500.000	1,500.000
2280	SPV.0090	Special 200. Maintain and Remove Concrete Barrier Temporary Precast Left In Place	LF	2,079.000	2,079.000
2290	SPV.0090	Special 201. Concrete Barrier Temporary Precast Anchoring	LF	3,028.000	3,028.000
2300	SPV.0090	Special 202. Concrete Barrier Temporary Precast Left In Place	LF	13,214.000	13,214.000
2310	SPV.0105	Special 010. Geotechnical Instrumention	LS	1.000	1.000
2320	SPV.0105	Special 018. Survey Project 1517-75-72	LS	1.000	1.000
2330	SPV.0105	Special 019. Concrete pavement Joint Layout	LS	1.000	1.000
2340	SPV.0105	Special 950. Removing Sign Bridge S-70-155	LS	1.000	1.000
2350	SPV.0105	Special 951. Sign Panel Structure Mounted, S-70-201	LS	1.000	1.000
2360	SPV.0120	Special 014. Water For Seeded Areas	MGAL	829.000	829.000
2370	SPV.0165	Special 851. Prestressed Precast Concrete Wall Panel	SF	17,270.000	17,270.000
2380	SPV.0165	Special 852. Temporary Wall Wire Faced Mechanically Stablized Earth LFRD/QMP	SF	6,090.000	6,090.000
2390	SPV.0165	Special 853. Wall Wire Faced Mechanically Stabilized Earth LRFD/QMP **P**	SF	17,270.000	17,270.000
2400	SPV.0180	Special 011. Modified High Performance Concrete (HPC) Pavement 9-INCH	SY	4,461.000	4,461.000
2410	SPV.0180	Special 012. Modified High Performance Concrete (HPC) Pavement 11-INCH	SY	42,415.000	42,415.000
2420	SPV.0195	Special 013. Cold Patch	TON	10.000	10.000

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CLEARING AND GRUBBING

CATERGORY	ROADWAY	STATION	TO	STATION	OFFSET	201.0105 CLEARING STA	201.0205 GRUBBING STA
1000							
STAGE 1A							
	USH 10 EB/STH 441 NB	236EB-75	-	237EB+75	RT	1	1
		239EB-75	-	240EB+75	RT	1	1
		242EB-45	-	244EB+45	RT	2	2
		245EB-79	-	247EB+79	LT	2	2
		248EB-00	-	249EB+00	LT	1	1
		253EB-10	-	257EB+10	RT/LT	4	4
		258EB-30	-	263EB+30	RT/LT	5	5
	APPLETON ROAD SW RAMP	1278ASW-50	-	1279ASW+50	RT	1	1
STAGE 1A SUBTOTAL						17	17
STAGE 2A							
		232EB-00	-	234EB+00	LT	2	2
		236EB-00	-	239EB+00	LT	3	3
		240EB-21	-	241EB+21	LT	1	1
STAGE 2A SUBTOTAL						6	6
PROJECT 1517-75-72 TOTAL						23	23

REMOVING SMALL PIPE CULVERTS

CATERGORY	ROADWAY	STATION	TO	STATION	OFFSET	203.0100 REMOVING SMALL PIPE CULVERT EACH	REMARKS
1000							
STAGE 1A							
	USH 10 EB/STH 441 NB	240EB+39	-	240EB+52	LT	1	12-INCH- CORRUGATED METAL
		243EB+10	-	243EB+29	LT	1	24-INCH- CONCRETE
		243EB+67	-	243EB+78	LT	1	24-INCH- CONCRETE
STAGE 1A SUBTOTAL						3	
STAGE 1B							
	USH 10 EB/STH 441 NB	288EB+14	-	288EB+14	RT	1	8-INCH- PLASTIC CORRUGATED
		288EB+29	-	288EB+29	RT	1	8-INCH- PLASTIC CORRUGATED
STAGE 1B SUBTOTAL						2	
STAGE 2A							
	USH 10 EB/STH 441 NB	227EB+28	-	227EB+91	LT	1	18-INCH- CONCRETE
		229EB+19	-	229EB+19	LT	1	18-INCH- CONCRETE
		241EB+14	-	241EB+35	LT	2	12-INCH- CORRUGATED METAL
		243EB+35	-	243EB+73	LT	1	18-INCH-CONCRETE
		251EB+43	-	251EB+58	LT	1	18-INCH- CONCRETE
		256EB+88	-	257EB+34	LT	1	18-INCH- CONCRETE
		257EB+63	-	259EB+50	LT	2	42-INCH- CONCRETE
STAGE 2A SUBTOTAL						9	
PROJECT 1517-75-72 TOTAL						14	

REMOVING OLD STRUCTURE

CATERGORY	ROADWAY	STATION	TO	STATION	OFFSET	203.0200 REMOVING OLD STRUCTURE (STATION) 241EBT+51 LS	203.0200 REMOVING OLD STRUCTURE (STATION) 241WBT+71 LS	204.0175 REMOVING CONCRETE SLOPE PAVING SY	REMARKS
1000									
	STAGE 2A								
	TEMPORARY USH 10 EB/STH 441 NB	241EBT+51	-	243EBT+50	R/L	1	-	-	B-70-111
		241EBT+55	-	241EBT+88	R/L	-	-	158	B-70-111 SOUTH ABUTMENT
		243EBT+09	-	243EBT+47	R/L	-	-	186	B-70-111 NORTH ABUTMENT
	TEMPORARY USH 10 WB/STH 441 SB	241WBT+71	-	243EBT+80	R/L	-	1	-	B-70-112
		241WBT+79	-	242WBT+13	R/L	-	-	170	B-70-112 SOUTH ABUTMENT
		243WBT+33	-	243WBT+74	R/L	-	-	201	B-70-112 NORTH ABUTMENT
	STAGE 2A SUBTOTAL					1	1	715	
	PROJECT 1517-75-72 TOTAL					1	1	715	

REMOVING PAVEMENT

CATERGORY	ROADWAY	STATION	TO	STATION	OFFSET	204.0100 REMOVING PAVEMENT SY	204.0110 REMOVING ASPHALTIC SURFACE SY	204.0150 REMOVING CURB & GUTTER LF
1000								
	STAGE 1A							
	USH 10 EB/STH 441 NB	217EB+00	-	230EB-03	RT/LT	-	4,240	-
		230EB+03	-	241EB+25	RT/LT	4,445	1,905	-
		239EB+75	-	240EB+39	RT	340		-
		241EB+40	-	242EB+03	RT/LT	610	-	-
		241EB+68	-	241EB+93	RT	-	-	135
		241EB+88	-	242EB+00	RT	-	-	109
		242EB+15	-	253EB+09	LT	2,215	1,150	-
		243EB+57	-	263EB+17	LT	8,835	3,520	-
		257EB+48	-	275EB+92	RT	5,475	2,375	-
	STAGE 1A SUBTOTAL					21,920	13,190	244
	STAGE 1B							
	USH 10 EB/STH 441 NB	275EB+90	-	288EB+34	RT	3,607	4,845	-
	STAGE 1B SUBTOTAL					3,607	4,845	0
	STAGE 2A							
	USH 10 EB/STH 441 NB	223EB+03	-	228EB+26	LT	-	4,125	-
		228EB+26	-	241EB+85	LT	6,440	5,040	-
		237EB+35	-	241EB+41	LT	845	165	-
		243EB+36	-	247EB+67	LT	924	40	-
		243EB+17	-	260EB+69	LT	7,005	2,010	-
		243EB+17	-	267EB+50	LT	-	7,995	-
		260EB+92	-	267EB+50	LT	1,695	290	-
		279EB+09	-	288EB+32	LT	2,680	3,630	-
		225EBT+10	-	235EBT+00	LT	-	-	990
	STAGE 2A SUBTOTAL					19,589	23,295	990
	PROJECT 1517-75-72 TOTAL					45,116	41,330	1,234

REMOVING GUARDRAIL

CATERGORY	ROADWAY	STATION	TO	STATION	OFFSET	204.0165 REMOVING GUARDRAIL LF
1000						
	STAGE 1A					
		286EB+76	-	288EB+22	RT	147
	STAGE 1A SUBTOTAL					147
	STAGE 2A					
		243EB+33	-	244EB+05	LT	125
	STAGE 2A SUBTOTAL					125
	PROJECT 1517-75-72 TOTAL					272

REMOVING FENCE

CATERGORY	ROADWAY	OFFSET	204.0170 REMOVING FENCE LF
1000			
	STAGE 1A		
	USH 10 EB/STH 441 NB	RT	4,229
	STAGE 1A SUBTOTAL		4,229
	PROJECT 1517-75-72 TOTAL		4,229

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REMOVING DELINEATORS AND MARKERS

CATERGORY	ROADWAY	OFFSET	204.0180 REMOVING DELINEATORS AND MARKERS EACH
1000			
	STAGE 1A		
	PROJECT 1517-75-72	RT	25
	STAGE 1A SUBTOTAL		25
	STAGE 2A		
	PROJECT 1517-75-72	LT	25
	STAGE 2A SUBTOTAL		25
	PROJECT 1517-75-72 TOTAL		50

REMOVING RAMP GATES

CATERGORY	ROADWAY	OFFSET	SPV.0060.407 REMOVING AND DELIVER EXISTING RAMP GATE EACH
1000			
	STAGE 1A		
	MIDWAY NE RAMP	RT	2
	STAGE 1A SUBTOTAL		2
	PROJECT 1517-75-72 TOTAL		2

REMOVING STORM SEWER

CATERGORY	ROADWAY	STATION	TO	STATION	OFFSET	204.0190 REMOVING SURFACE DRAINS EACH	204.0210 REMOVING MANHOLES EACH	204.0220 REMOVING INLETS EACH	204.0245.001 REMOVING STORM SEWER 6-INCH - 18-INCH LF	204.0245.002 REMOVING STROM SEWER 21-INCH - 30-INCH LF
1000										
	STAGE 1A									
	USH 10 EB/STH 441 NB	240EB+39	-	240EB+39	LT	-	1	-	-	-
		240EB+92	-	242EB+92	RT	1	-	-	-	-
		241EB+35	-	242EB+70	RT	-	-	-	-	163
		241EB+64	-	241EB+64	RT	-	-	1	-	-
		241EB+64	-	241EB+90	RT/LT	-	-	-	177	-
		241EB+90	-	241EB+90	RT	-	-	1	-	-
		242EB+04	-	242EB+93	RT	-	-	-	82	-
		242EB+20	-	242EB+70	RT	-	-	-	58	-
		242EB+70	-	242EB+70	RT	-	-	1	-	-
		242EB+71	-	242EB+71	LT	1	-	-	-	-
		242EB+93	-	242EB+93	RT	-	-	1	-	-
		254EB+40	-	254EB+40	RT	-	-	1	-	-
		254EB+40	-	257EB+52	RT/LT	-	-	-	-	354
		256EB+24	-	256EB+24	RT	-	-	1	-	-
		256EB+24	-	257EB+42	RT	-	-	-	126	-
		257EB+42	-	257EB+42	RT	-	-	1	-	-
	STAGE 1A SUBTOTAL					2	1	7	443	517
	STAGE 1B									
	USH 10 EB/STH 441 NB	288EB+14	-	288EB+14	RT	-	-	1	-	-
	STAGE 1B SUBTOTAL					0	0	1	0	0
	STAGE 2A									
	USH 10 EB/STH 441 NB	241EB+14	-	241EB+14	LT	-	-	1	-	-
		243EB+36	-	243EB+36	LT	-	-	1	-	-
		246EB+66	-	249EB+70	LT	-	-	-	393	-
		247EB+66	-	247EB+66	LT	-	-	1	-	-
		249EB+18	-	249EB+18	LT	-	-	1	-	-
		250EB+36	-	250EB+36	LT	-	-	1	-	-
		251EB+58	-	251EB+58	LT	-	-	2	-	-
		257EB+36	-	257EB+36	LT	-	-	2	-	-
		257EB+63	-	259EB+50	LT	-	-	-	-	-
		259EB+36	-	259EB+36	LT	-	-	-	422	-
	STAGE 2A SUBTOTAL					0	0	9	815	0
	PROJECT 1517-75-72 TOTAL					2	1	17	1,258	517

EARTHWORK

CATERGORY	ROADWAY	STATION	TO	STATION	205.0100 (1) EXCAVATION COMMON (2) CUT CY	(3) EBS CY	FILL (8) LIFT 1 CY	LIFT 2 CY	SPV.0035.003 (4) ROADWAY EMBANKMENT CY	(5) MASS ORDINATE +/-	REMARKS
1000											
	STAGE 1A										
	USH 10 EB/STH 441 NB	217EB+00	-	228EB+00	3,529	0	2,443	0	2,443	1,086	
		228EB+00	-	238EB+50	5,679	0	45,055	0	45,055	-39,376	INCLUDES STRIP DRAINS AREA 1
		238EB+50	-	240EB+59	566	0	24,993	1,947	26,941	-26,375	INCLUDES STRIP DRAINS AREA 2
		242EB+71	-	244EB+00	1,863	0	20,978	6,674	27,652	-25,790	INCLUDES STRIP DRAINS AREA 3
		244EB+00	-	247EB+50	8,041	0	37,661	0	37,661	-29,620	INCLUDES STRIP DRAINS AREA 4, LIFT 1
		247EB+50	-	252EB+50	12,585	0	31,801	0	31,801	-19,216	INCLUDES STRIP DRAINS AREA 5
		252EB+50	-	260EB+00	18,487	0	41,030	0	41,030	-22,543	INCLUDES STRIP DRAINS AREA 6 AND 7
		260EB+00	-	278EB+00	17,512	0	5,844	0	5,844	11,668	
	TEMPORARY USH 10 EB/STH 441 NB	244EBT+50	-	259EBT+70	133,862	0	760	0	760	133,102	INLCUDES PARTIAL POND 4 EXCAVATION(7)
	MIDWAY ROAD NE RAMP	242MNE+54	-	244MNE+50	2,003	0	761	0	761	1,242	
		244MNE+50	-	258MNE+72	1,316	0	19,028	0	19,028	-17,713	
	APPLTON ROAD SW RAMP	1272ASW+26	-	1278ASW+50	4,654	0	1,829	0	1,829	2,824	
	N-70-132	273+00	-	281+52	25	0	985	0	985	-961	
	STAGE 1A SUBTOTAL				210,121		233,169	8,622	241,790	-31,669	
	STAGE 1B										
	USH 10 EB/STH 441 NB	273EB+75	-	288EB+34	2,944	0	5,153	0	5,153	-2,210	
	STAGE 1B SUBTOTAL				2,944		5,153	0	5,153	-2,210	
	STAGE 2A										
	USH 10 WB/STH 441 SB	222WB+32	-	288WB+00	791	0	3,615	0	3,615	-2,824	
		228WB+00	-	238WB+50	651	0	35,945	0	35,945	-35,294	INLCUDES STRIP DRAINS AREA 8
		238WB+50	-	240WB+20	19	0	9,182	0	9,182	-9,163	
		242WB+50	-	256WB+00	94,739	0	4,129	0	4,129	90,610	INLCUDES PARTIAL POND 4 EXCAVATION
		244EB+00	-	247EB+50	0	0	13,158	0	13,158	-13,158	INLCUDES STRIP DRAINS AREA 4, LIFT 2
		256WB+00	-	260WB+00	12,793	0	8,981	0	8,981	3,812	INLCUDES STRIP DRAINS AREA 9
		260WB+00	-	267WB+50	3,862	0	4,013	0	4,013	-151	
		279WB+51	-	288WB+32	1,084	0	3,066	0	3,066	-1,982	
	STAGE 2A SUBTOTAL				113,939		82,090	0	82,090	31,849	
	PROJECT 1517-75-72 TOTAL				327,003		329,033		329,033	-2,030	

(1) EXCAVATION COMMON = CUT + EBS EXCAVATION
(2) CUT VOLUME INCLUDES CONCRETE AND ASPHALTIC SURFACE
(3) EBS EXCAVATION TO BE BACKFILLED ROADWAY EMBANKMENT UNLESS OTHERWISE NOTED IN PLANS
(4) ROADWAY EMBANKMENT = FILL
(5) THE MASS ORINDATE: A POSITIVE QUANTITY INDICATES AN EXCESS OF MATERIAL AND A NEGATIVE QUANTITY INDICATES A SHORTAGE OF MATERIAL
MASS ORDINATE = CUT - FILL. THE MASS ORDINATE IS FOR INFORMATION PURPOSES ONLY AS COMMON EXCAVATION AND ROADWAY EMBANKMENT ARE NOT BALANCED FOR QUANTITY PURPOSES
AND DOES NOT GUARANTEE THE QUALITY OF COMMON EXCAVATION, AND IF IT CAN BE REUSED ONSITE. ALL EBS MATERIAL IS ASSUMED TO BE WASTED OFFSITE.
(6) QUANTITIES FOR THE STRIP DRAIN DRAINAGE BLANKET ARE NOT INCLUDED IN THE EMBANKMENT QUANTITIES AND ARE PAID FOR SEPARATELY.
(7) OVER EXCAVATION OF POND 4 IN STAGE 1A IS ALLOWED TO ELEVATION 754.00 TO BALANCE THE EARTHWORK.
(8) FILLS TO BE PLACED IN LIFT 2 PERTAIN TO THE PROPOSED WB USH 10/ SB STH 441 LANES.

FILE NAME : S:\PDS\C3D\WIS441\15177570_72_77_85\SHEETSPLAN\1517-75-72\030200-MQ\NE-15177572-030201-MQ.DWG
LAYOUT NAME - 030204_MQ
PLOT DATE : 4/12/2017 11:35 AM PLOT BY : SLEZAK, KIMBERLY A PLOT NAME : PLOT SCALE : **********
WISDOT/CADDS SHEET 42

FINISHING ROADWAY (PROJECT)

CATERGORY	ROADWAY	213.0100 FINISHING ROADWAY (PROJECT) 1517-75-72 EACH
1000		
	PROJECT 1517-75-72	1
PROJECT 1517-75-72 TOTAL		1

AGGREGATE

CATERGORY	ROADWAY	STATION	TO	STATION	OFFSET	305.0110 BASE AGGREGATE DENSE 3/4-INCH TON	305.0120 BASE AGGREGATE DENSE 1 1/4-INCH TON	311.0110 BREAKER RUN TON
1000								
STAGE 1A								
	USH 10 EB/STH 441 NB	217EB+00	-	240EB+68	RT/LT	3,414	3,862	12,391
		242EB+69	-	275EB+02	RT/LT	2,242	7,502	17,524
	MIDWAY ROAD NE RAMP	242MNE+54	-	244MNE+50	RT/LT	98	656	735
		244MNE+50	-	257MNE+49	RT/LT	1,341	967	3,394
	APPLETON ROAD SW RAMP	1272ASW+06	-	1278ASW+50	RT	861	518	1,835
STAGE 1A SUBTOTAL						7,956	13,505	35,879
STAGE 1B								
	USH 10 EB/STH 441 NB	273EB+75	-	288EB+34	RT/LT	1,494	2,611	7,032
	APPLETON ROAD SW RAMP	1277ASW+62	-	1278ASW+50	LT	21	-	44
STAGE 1B SUBTOTAL						1,515	2,611	7,076
STAGE 2A								
	USH 10 EB/STH 441 NB	225EB+60	-	223EB+85	LT	-	424	757
	USH 10 WB/STH 441 SB	222WB+32	-	240WB+01	RT/LT	-	-	6,004
		242WB+18	-	267WB+50	RT/LT	-	-	10,018
STAGE 2A SUBTOTAL						0	424	16,779
PROJECT 1517-75-72 TOTAL						9,471	16,540	59,734

FILE NAME : S:\PDS\C3D\WIS441\15177570_72_77_85\SHEETSPLAN\1517-75-72\030200-MQ\NE-15177572-030201-MQ.DWG
LAYOUT NAME - 030205_MQ
PLOT DATE : 4/12/2017 11:35 AM PLOT BY : SLEZAK, KIMBERLY A PLOT NAME : PLOT SCALE : **********
WISDOT/CADDS SHEET 42

CONCRETE

CATERGORY	ROADWAY	STATION	TO	STATION	OFFSET	320.0155 CONCRETE BASE 9-INCH SY	SPV.0180.011 MODIFIED HIGH PERFORMANCE CONCRETE (HPC) PAVEMENT 9-INCH SY	SPV.0180.012 MODIFIED HIGH PERFORMANCE CONCRETE (HPC) PAVEMENT 11-INCH SY	415.0410 CONCRETE PAVEMENT APPROACH SLAB SY	416.1010 CONCRETE SURFACE DRAINS CY	601.0411 CONCRETE CURB & GUTTER 30-INCH TYPE D SY
1000											
	STAGE 1A										
	USH 10 EB/STH 441 NB	217EB+00	-	240EB+24	RT/LT	-	-	11,298	-	-	-
	USH 10 EB/STH 441 NB	225EB+60	-	235EB+11	LT	-	-	-	-	-	890
		243EB+09	-	275EB+02	RT/LT	-	-	22,225	-	-	-
		254EB+15	-	257EB+50	RT	439	-	-	-	-	-
		261EB+00	-	261EB+12	RT	-	-	-	-	4	-
	MIDWAY ROAD NE RAMP	244MNE+50	-	254MNE+19	RT	-	2,907	-	-	-	-
		247MNE+64	-	247MNE+75	RT	-	-	-	-	4	-
	APPLETON ROAD SW RAMP	1272ASW+06	-	1278ASW+50	RT	-	1,554	-	-	-	-
	STAGE 1A SUBTOTAL					439	4,461	33,523	0	8	890
	STAGE 1B										
	USH 10 EB/STH 441 NB	275EB+02	-	287EB+96	RT/LT	-	-	7,619	-	-	-
		275EB+02	-	277EB+62	RT	316	-	-	-	-	-
		288EB+16	-	288EB+34	RT/LT	-	-	-	120	-	-
	STAGE 1B SUBTOTAL					316	0	7,619	120	0	0
	STAGE 2A										
	USH 10 EB/STH 441 NB	225EB+60	-	223EB+85	LT	-	-	1,273	-	-	-
	STAGE 2A SUBTOTAL					0	0	1,273	0	0	0
	PROJECT 1517-75-72 TOTAL					755	4,461	42,415	120	8	890

ASPHALT

CATERGORY	ROADWAY	STATION	TO	STATION	OFFSET	455.0605 TACK COAT GAL	460.5223 HMA PAVEMENT 3 LT 58-28 S TON	460.5224 HMA PAVEMENT 4 LT 58-28 S TON	460.7423 HMA PAVEMENT 3 HT 58-28 H TON	460.7424 HMA PAVEMENT 4 HT 58-28 H TON	465.0105 ASPHALTIC SURFACE TON
1000											
	STAGE 1A										
	USH 10 EB/STH 441 NB	223EB+00	-	239EB+50	RT	-	-	-	-	-	884
		239EB+50	-	240EB+74	RT/LT	120	-	-	356	130	-
		242EB+60	-	243EB+50	RT/LT	84	-	-	251	92	-
		251EB+20	-	254EB+15	RT	38	70	36	-	-	-
		254EB+15	-	257EB+50	RT	22	-	53	-	-	-
		261EB+00	-	272EB+06	RT	150	282	144	-	-	-
	MIDWAY ROAD NE RAMP	242MNE+54	-	244MNE+50	RT/LT	-	-	-	-	-	200
		244MNE+50	-	247MNE+75	RT	30	56	28	-	-	-
		244MNE+50	-	254MNE+19	LT	32	61	31	-	-	-
	APPLETON ROAD SW RAMP	1272ASW+06	-	1278ASW+50	RT	30	58	30	-	-	-
	STAGE 1A SUBTOTAL					506	527	322	607	222	1084
	STAGE 1B										
	USH 10 EB/STH 441 NB	272EB+06	-	277EB+62	RT	16	-	38	-	-	-
		277EB+62	-	288EB+34	RT	116	219	111	-	-	-
	APPLETON ROAD SW RAMP	1277ASW+62	-	1278ASW+50	LT	2	6	3	-	-	-
	STAGE 1B SUBTOTAL					134	225	152	0	0	0
	PROJECT 1517-75-72 TOTAL					640	752	474	607	222	1,084

3

					BARRIER			
					603.1132 CONCRETE BARRIER TYPE S32	603.1156 CONCRETE BARRIER TYPE S56	603.3513 CONCRETE BARRIER TRANSITION TYPE S32 TO S36	603.3535 CONCRETE BARRIER TRANSITION TYPE S36 TO S42
CATERGORY	ROADWAY	STATION TO STATION	OFFSET		LF	LF	EACH	EACH
1000								
STAGE 1A								
	USH 10 EB/STH 441 NB	243EB+50 - 268EB+00	LT		-	2,478	-	-
		243EB+50 - 249EB+00	RT		538	-	1	1
STAGE 1A SUBTOTAL					538	2,478	1	1
STAGE 2A								
	USH 10 EB/STH 441 NB	225EB+60 - 239EB+50	LT		-	1,384	-	-
STAGE 2A SUBTOTAL					0	1,384	0	0
PROJECT 1517-75-72 TOTAL					538	3,862	1	1

TEMPORARY BARRIER

CATERGORY	ROADWAY	STATION	TO	STATION	OFFSET	603.8000 CONCRETE BARRIER TEMPORARY PRECAST DELIVERED LF	603.8125 CONCRETE BARRIER TEMPORARY PRECAST INSTALLED LF	SPV.0090.200 MAINTAIN AND REMOVE CONCRETE BARRIER TEMPORARY PRECAST LEFT IN PLACE LF	SPV.0090.201 CONCRETE BARRIER TEMPORARY PRECAST ANCHORING LF	SPV.0090.202 CONCRETE BARRIER TEMPORARY PRECAST LEFT IN PLACE LF	SPV.0060.215 TEMPORARY THRIE BEAM CONNECTION LEFT IN PLACE EACH
1000											
STAGE 1A											
	USH 10 EB/STH 441 NB	276EB+09	-	288EB+11	24' LT	-	-	1,202	-	-	-
		295EB+02	-	302EB+07	31' LT	-	-	706	-	-	-
	TEMPORARY USH 10 EB/STH 441 NB	212EBT+16	-	241E8T+56	LT	2,939	2,939	-	-	-	-
		215EBT+49	-	241E8T+35	RT	2,600	2,600	-	-	-	-
		243EBT+36	-	280E8T+40	RT	3,669	3,669	-	-	-	-
		279EBT+73	-	288E8T+86	RT	913	913	-	-	-	-
		288EBT+86	-	292E8T+36	RT	-	-	283	-	-	-
		294EBT+22		295E8T+22	LT	-	-	100	-	-	-
		294EBT+21		295E8T+22	LT	-	-	100	-	-	-
		279EBT+81	-	285E8T+71	RT	599	599	-	-	-	-
		294EBT+27	-	299E8T+08	LT	482	482	-	-	-	-
		299EBT+08		302E8T+45	LT	-	-	337	-	-	-
	TEMPORARY USH 10 WB/STH 441 SB	211WBT+50	-	215W8T+22	LT	-	-	371	-	-	-
		223WBT+09	-	230W8T+77	LT	-	-	764	-	-	-
		243WBT+85	-	245W8T+09	RT	-	-	124	-	-	-
		251WBT+49	-	294W8T+55	RT	4,305	4,305	-	-	-	-
		243WBT+93	-	265W8T+38	LT	2,179	2,179	-	2,179	-	-
	MIDWAY ROAD EB	20EMEB+38	-	24EMEB+45	LT	407	407	-	407	407	-
	MIDWAY ROAD WB	16EMWB+30	-	24EMWB+85	LT	851	851	-	-	851	-
		21EMWB+70	-	22EMWB+50	RT	80	80	-	80	80	-
	UNDISTRIBUTED					-	-	-	-	-	-
STAGE 1A SU8TOTAL						19,024	19,024	2,079	2,666	1,338	0
STAGE 1B											
	TEMPORARY USH 10 EB/STH 441 NB	277EBT+06	-	279E8T+45	RT	238	238	-	238	-	-
STAGE 1B SU8TOTAL						238	238	0	238	0	0
STAGE 2A											
	USH 10 EB/STH 441 NB	211EB+55	-	223EB+18		998	998	-	-	998	-
		211EB+22	-	216EB+56		534	534	-	-	534	-
		212EB+17	-	216EB+50		433	433	-	-	-	-
		212EB+17	-	296EB+00		8,383	8,383	-	-	8,383	-
		213EB+24	-	223EB+02		978	978	-	-	978	-
		216EB+56	-	216EB+62		6	6	-	-	-	-
		220EB+80	-	224EB+00	LT	120	120	-	-	120	-
		222EB+00	-	239EB+50	RT	1,750	1,750	-	-	-	-
		225EB+60	-	239EB+50	LT	1,390	1,390	-	-	-	-
		239EB+50	-	240EB+74	LT	124	124	-	-	124	-
		242EB+74	-	243EB+50	LT	76	76	-	-	76	2
		268EB+00	-	277EB+50	LT	950	950	-	-	-	1
		277EB+30	-	288EB+37	LT	1,107	1,107	-	-	-	
STAGE 2A SU8TOTAL						16,849	16,849	0	0	0	0	11,213	3
STAGE 2B											
		216EB+56	-	220EB+34	LT	378	378	-	-	378	-
		223EB+99	-	225EB+60	LT	161	161	-	-	161	-
		239EB+50	-	240EB+74	LT	124	124	-	124	124	-
STAGE 2B SU8TOTAL						663	663	0	124	663	0
PROJECT 1517-75-72 TOTAL						36,774	36,774	2,079	3,028	13,214	3

NOTE: UNDISTRIBUTED THRIE BEAM CONNECTION LOCATIONS SHALL BE DETERMINED DURING STAGE 1A.

3

3

SURFACE DRAIN CORRUGATED METAL SLOTTED

CATERGORY	STATION/OFFSET	TO	STATION/OFFSET	521.2005.S SURFACE DRAIN CORRUGATED METAL SLOTTED 12-INCH LF
1000				
	STAGE 1A			
	222EB+37, 27.6' LT	-	223EB+50, 27.6' LT	112
	STAGE 1A SUBTOTAL			112
	PROJECT ID 1517-75-72 TOTAL			112

CULVERT PIPES

CATERGORY	FROM STRUCTURE	TO STRUCTURE	START INVERT ELEVATION (FT)	END INVERT ELEVATION (FT)	SLOPE	MINIMUM WALL THICKNESS	520.8000 CONCRETE COLLAR FOR PIPE ** EACH	521.0112 CULVERT PIPE CORRUGATED STEEL 12-INCH	521.0118 CULVERT PIPE CORRUGATED STEEL 18-INCH	522.0136 CULVERT PIPE REINFORCED CONCRETE CLASS III 36-INCH LF	522.0148 CULVERT PIPE REINFORCED CONCRETE CLASS III 48-INCH LF
1000											
STAGE 1A											
	240	240A	770.00	769.25	-0.55%		-	-	-	136	-
	109A	109	745.54	743.68	-5.72%	0.064	1	33	-	-	-
	108A	108	747.98	743.07	-3.03%	0.064	1	-	162	-	-
STAGE 1A SUBTOTAL							2	33	162	136	0
STAGE 2A											
	240A	241	768.50	769.25	-0.55%		1			138	-
	310	311	759.11	758.16	-3.70%		-			-	26
	340	341	767.97	767.49	-0.89%		-			-	54
STAGE 2A SUBTOTAL							1			138	80
PROJECT ID 1517-75-72 TOTAL							3	33	162	274	80

NOTE:
**- QUANTITIES SHOWN ELSEWHERE ON PLAN

APRON ENDWALLS

CATERGORY	STRUCTURE NUMBER	STATION	OFFSET	RIM ELEVATION (FT)	DEPTH	521.1012 APRON ENDWALLS FOR CULVERT PIPE STEEL 12-INCH	521.1018 APRON ENDWALLS FOR CULVERT PIPE STEEL 18-INCH	522.1015 APRON ENDWALLS FOR CULVERT PIPE REINFORCED CONCRETE 15-INCH	522.1018 APRON ENDWALLS FOR CULVERT PIPE REINFORCED CONCRETE 18-INCH	522.1024 APRON ENDWALLS FOR CULVERT PIPE REINFORCED CONCRETE 24-INCH	522.1030 APRON ENDWALLS FOR CULVERT PIPE REINFORCED CONCRETE 30-INCH	522.1036 APRON ENDWALLS FOR CULVERT PIPE REINFORCED CONCRETE 36-INCH	522.1048 APRON ENDWALLS FOR CULVERT PIPE REINFORCED CONCRETE 48-INCH	525.0336 ALUMINUM APRON ENDWALLS FOR ALUMINUM CULVERT PIPE 36-INCH
						EACH	EACH	EACH	EACH	EACH	EACH	EACH	EACH	EACH
1000														
STAGE 1A														
	108A	224EB+00	31.8 LT	748.48		-	1	-	-	-	-	-	-	-
	109A	221EB+65	30.4 LT	746.54		1	-	-	-	-	-	-	-	-
	130	235EB+00	47.5 RT	772.75		-	-	-	-	1	-	-	-	-
	140	239EB+45	43.9 RT	782.11		-	-	-	-	1	-	-	-	-
	145	242EB+80	49.7 RT	775.90		-	-	1	-	-	-	-	-	-
	150	243EB+67	42.1 RT	785.04		-	-	-	1	-	-	-	-	-
	160	243EB+78	144.0 LT	785.74		-	-	-	1	-	-	-	-	-
	170	246EB+20	55.1 RT	785.34		-	-	-	1	-	-	-	-	-
	180	250EB+00	146.5 LT	787.61		-	-	-	1	-	-	-	-	-
	190	253EB+00	147.5 LT	784.92		-	-	-	1	-	-	-	-	-
	200	248MNE+50	19.6 LT	774.16		-	-	1	-	-	-	-	-	-
	210	250MNE+50	24.6 LT	779.01		-	-	1	-	-	-	-	-	-
	220	261EB+05	61.0 RT	774.95		-	-	-	-	1	-	-	-	-
	240	262EB+32	70.5 RT	773.01		-	-	-	-	-	-	1	-	-
	240A	261EB+66	48.6 LT	772.26		-	-	-	-	-	-	-	-	1
	250	263EB+80	62.2 RT	774.50		-	-	-	1	-	-	-	-	-
	270	266EB+50	59.5 RT	777.71		-	-	-	1	-	-	-	-	-
	280	269EB+50	61.6 RT	781.92		-	-	-	-	-	1	-	-	-
STAGE 1A SUBTOTAL						1	1	3	7	3	1	1	0	1
STAGE 2A														
	230	258WB+50	84.9 LT	777.98		-	-	-	-	1	-	-	-	-
	241	260WB+87	100.1 LT	771.51		-	-	-	-	-	-	1	-	-
	260	263WB+91	76.6 LT	777.57		-	-	-	1	-	-	-	-	-
	290	281EB+50	110.4 LT	795.29		-	-	-	-	1	-	-	-	-
	310	256WB+01	171.9 LT	763.12		-	-	-	-	-	-	-	1	-
	311	255WB+83	188.7 LT	762.17		-	-	-	-	-	-	-	1	-
	340	259WB+74	119.8 LT	771.98		-	-	-	-	-	-	-	1	-
	341	259WB+23	120.6 LT	771.50		-	-	-	-	-	-	-	1	-
STAGE 2A SUBTOTAL						0	0	0	1	2	0	1	4	0
PROJECT ID 1517-75-72 TOTAL						1	1	3	8	5	1	2	4	1

STORM SEWER PIPES

CATERGORY	FROM STRUCTURE	TO STRUCTURE	START INVERT ELEVATION (FT)	END INVERT ELEVATION (FT)	SLOPE	520.8000 CONCRETE COLLAR FOR PIPE ** EACH	608.0315 STORM SEWER PIPE REINFORCED CONCRETE CLASS III 15-INCH LF	608.0318 STORM SEWER PIPE REINFORCED CONCRETE CLASS III 18-INCH LF	608.0324 STORM SEWER PIPE REINFORCED CONCRETE CLASS III 24-INCH LF	608.0330 STORM SEWER PIPE REINFORCED CONCRETE CLASS III 30-INCH LF	608.0336 STORM SEWER PIPE REINFORCED CONCRETE CLASS III 36-INCH LF
1000											
STAGE 1A											
	100	100A	742.26	742.21	0.50%	-	9	-	-	-	-
	100A	100B	742.21	741.41	1.61%	1	50	-	-	-	-
	101	100	742.80	742.26	0.50%	-	109	-	-	-	-
	112	111	747.45	742.12	2.04%	1	-	-	-	-	261
	113	112	748.24	747.95	1.12%	-	-	-	-	26	-
	131	130	771.69	770.50	1.87%	-	-	-	63	-	-
	131A	131	772.55	772.44	1.87%	-	6	-	-	-	-
	131B	131A	772.65	772.55	1.87%	-	6	-	-	-	-
	131C	131B	772.76	772.65	1.87%	-	6	-	-	-	-
	132A	132	778.98	778.95	0.50%	-	6	-	-	-	-
	132B	132A	779.64	779.98	5.75%	-	12	-	-	-	-
	132	131	778.20	771.69	2.18%	-	-	-	299	-	-
	141	140	779.94	779.86	0.80%	-	-	-	10	-	-
	142	141	780.38	779.94	0.80%	-	-	-	56	-	-
	142A	142	781.66	781.14	0.50%	-	105	-	-	-	-
	142B	142A	781.94	791.66	0.51%	-	55	-	-	-	-
	143	142	780.62	780.38	1.50%	-	-	-	16	-	-
	143A	143	781.22	781.37	2.22%	-	128	-	-	-	-
	145A	145	774.55	774.47	0.50%	-	17	-	-	-	-
	145B	145A	786.39	783.28	5.66%	-	55	-	-	-	-
	151	150	783.62	783.33	3.98%	-	-	7	-	-	-
	152	151	785.25	783.62	2.87%	-	-	57	-	-	-
	152A	152	786.79	785.25	2.53%	-	51	-	-	-	-
	161	160	784.54	784.03	0.48%	-	-	105	-	-	-
	162	161	785.00	784.79	0.23%	-	95	-	-	-	-
	171	170	784.01	783.63	4.90%	-	-	8	-	-	-
	172	171	787.05	784.01	4.38%	-	-	69	-	-	-
	172A	172	787.39	787.30	0.50%	-	19	-	-	-	-
	181	180	786.93	785.90	1.01%	-	-	102	-	-	-
	181A	181	787.29	787.18	0.48%	-	22	-	-	-	-
	191	190	784.24	783.21	1.00%	-	-	103	-	-	-
	191A	191	784.60	784.49	1.00%	-	11	-	-	-	-
	191B	191A	785.28	784.60	5.93%	-	11	-	-	-	-
	201	200	772.94	772.72	0.56%	-	40	-	-	-	-
	211	210	778.40	777.57	0.82%	-	100	-	-	-	-
	212	211	778.87	778.40	1.27%		37	-	-	-	-
	221	220	772.78	772.70	0.51%	-	-	-	15	-	-
	222	221	773.12	772.78	0.50%	-	-	-	68	-	-
	223	222	774.16	773.12	0.51%	-	-	-	207	-	-
	223A	223	775.25	774.91	0.50%	-	67	-	-	-	-
	224	223	776.66	774.16	0.82%	-	-	-	303	-	-
	225	224	777.58	777.16	0.82%	-	-	51	-	-	-
	225A	225	781.33	777.83	2.37%	-	148	-	-	-	-
	226	225	778.03	777.83	0.81%	-	25	-	-	-	-
	231A	231	779.69	779.66	0.50%	-	6	-	-	-	-
	232	231	777.47	776.48	0.50%	-	-	-	198	-	-
	232A	232	781.13	778.22	6.00%	-	49	-	-	-	-
	233	232	781.28	777.47	3.84%	-	-	-	99	-	-
	233A	233	782.11	782.03	0.50%	-	17	-	-	-	-
SUBTOTAL						2	1,262	502	1,334	26	261

NOTE:
**- QUANTITIES SHOWN ELSEWHERE ON PLAN

STORM SEWER PIPE (CONTINUE)

CATERGORY	FROM STRUCTURE	TO STRUCTURE	START INVERT ELEVATION (FT)	END INVERT ELEVATION (FT)	SLOPE	520.8000 CONCRETE COLLAR FOR PIPE ** EACH	608.0315 STORM SEWER PIPE REINFORCED CONCRETE CLASS III 15-INCH LF	608.0318 STORM SEWER PIPE REINFORCED CONCRETE CLASS III 18-INCH LF	608.0324 STORM SEWER PIPE REINFORCED CONCRETE CLASS III 24-INCH LF	608.0330 STORM SEWER PIPE REINFORCED CONCRETE CLASS III 30-INCH LF	608.0336 STORM SEWER PIPE REINFORCED CONCRETE CLASS III 36-INCH LF
1000											
	252	250	775.96	772.79	4.02%	-	-	84	-	-	-
	251	252	777.25	776.20	0.75%	-	140	-	-	-	-
	251A	251	777.31	777.25	0.50%	-	12	-	-	-	-
	271	270	778.98	776.00	3.65%	-	-	82	-	-	-
	271A	271	779.26	779.23	0.50%	-	6	-	-	-	-
	281	280	779.72	779.13	0.72%	-	-	-	-	83	-
	282	281	782.40	780.22	0.72%	-	-	-	300	-	-
	283	282	783.43	782.40	0.82%	-	-	-	125	-	-
	321	320	759.08	758.58	0.51%	1	-	-	99	-	-
	322	321	759.41	759.08	0.50%	-	-	-	67	-	-
	331	330	759.23	755.98	0.50%	1	-	-	49	-	-
	332	331	756.88	756.23	0.50%	-	-	-	131	-	-
	STAGE 1A SUBTOTAL					4	1,420	668	2,105	109	261
	STAGE 1B SUBTOTAL										
	283	282	784.86	783.43	0.82%	1	-	-	175	-	-
	284	283	788.56	784.86	1.23%	-	-	-	300	-	-
	STAGE 1B SUBTOTAL					1	0	0	475	0	0
	STAGE 2A										
	114	113	748.60	748.24	1.41%	1	-	-	-	26	-
	115	114	749.36	748.60	2.95%	-	-	-	-	26	-
	116	115	756.79	749.86	2.30%	-	-	-	301	-	-
	116A	116	757.66	757.54	1.92%	-	6	-	-	-	-
	116B	116A	757.90	756.79	1.92%	-	13	-	-	-	-
	117	116	757.89	757.66	2.77%	-	-	-	40	-	-
	117A	117	758.70	758.64	0.50%	-	12	-	-	-	-
	118	117	758.74	757.89	2.45%	-	-	-	35	-	-
	118A	118	759.55	759.49	0.50%	-	12	-	-	-	-
	119	118	764.14	759.74	2.38%	-	-	-	227	-	-
	119A	119	765.02	764.89	2.07%	-	6	-	-	-	-
	119B	119A	765.26	765.02	2.07%	-	12	-	-	-	-
	231	230	776.48	775.98	0.50%	1	-	-	101	-	-
	262	260	776.42	775.86	0.57%	-	-	98	-	-	-
	261	262	773.83	776.67	0.70%	-	165	-	-	-	-
	263	262	777.50	776.67	0.50%	-	166	-	-	-	-
	291	290	793.42	793.04	0.50%	-	-	-	77	-	-
	291A	291	794.20	794.18	0.50%	-	6	-	-	-	-
	291B	291A	794.23	794.20	0.50%	1	6	-	-	-	-
	292	291	798.16	793.43	1.58%	-	-	-	300	-	-
	292A	292	798.97	798.91	0.50%	-	11	-	-	-	-
	293	292	800.51	798.16	1.17%	-	-	-	200	-	-
	293A	293	801.32	801.26	0.50%	-	11	-	-	-	-
	294	293	801.76	800.51	0.84%	-	-	-	150	-	-
	294A	294	802.57	802.51	0.50%	-	11	-	-	-	-
	STAGE 2A SUBTOTAL					3	437	98	1,431	52	0
	PROJECT ID 1517-75-72 TOTAL					8	1,857	766	4,011	161	261

NOTE:
**- QUANTITIES SHOWN ELSEWHERE ON PLAN

3

STORM SEWER COVERS

CATERGORY	STRUCTURE NUMBER	STATION	OFFSET	RIM ELEVATION (FT)	DEPTH	611.0535 MANHOLE COVERS TYPE J-S EACH	611.0642 INLET COVERS TYPE MS EACH	611.0654 INLET COVERS TYPE V EACH	SPV.0060.016 BOLTING INLET COVERS EACH
1000									
STAGE 1A									
	100	218EB+71	22.0 LT	746.36		-	-	1	-
	100A	218EB+71	30.7 LT	746.76		-	-	1	-
	101	219EB+80	22.0 LT	746.55		-	-	1	-
	110	222EB+09	22.5 LT	748.13		-	-	1	-
	-	219WB+20	43.5 LT	-		-	-	-	1
	-	219WB+90	43.2 LT	-		-	-	-	1
	-	221WB+20	42.5 LT	-		-	-	-	1
	-	222WB+00	42.6 LT	-		-	-	-	1
	111	222EB+38	16.0' LT	748.68		1	-	-	-
	112	225EB+00	16.0 LT	752.95		1	-	-	-
	113	225EB+00	22.0 LT	753.23		-	-	1	
	-	225WB+64	28.3 LT	-		-	-	-	1
	-	225WB+89	25.6 LT	-		-	-	-	1
	-	227WB+22	21.5 LT	-		-	-	-	1
	-	227WB+39	21.6 LT	-		-	-	-	1
	131	235EB+00	16.0 LT	776.79		1	-	-	-
	131A	235EB+00	22.0 LT	776.54		-	-	1	-
	131B	235EB+00	27.5 LT	776.40		-	-	1	-
	131C	235EB+00	33.1 LT	776.51		-	-	1	-
	132	238EB+00	16.0 LT	782.84		1	-	-	-
	132A	238EB+00	22.0 LT	782.73		-	-	1	-
	132B	238EB+00	33.6 LT	783.39		-	-	1	-
	141	239EB+45	34.0 RT	785.07		-	-	1	-
	142	239EB+45	22.0 LT	785.46		-	-	1	-
	142A	240EB+50	22.0 LT	787.20		-	-	1	-
	142B	240EB+50	33.0 RT	785.93		-	-	1	-
	143	239EB+45	37.8 LT	786.07		-	-	1	-
	143A	240EB+73	42.5 LT	787.97		-	-	1	-
	145A	242EB+80	33.0 RT	787.31		-	-	1	-
	145B	242EB+80	22.0 LT	790.14		-	-	1	-
	151	243EB+67	34.9 RT	787.61		-	-	1	-
	152	243EB+68	22.0 LT	790.57		-	-	1	-
	152A	244EB+18	22.0 LT	790.54		-	-	1	-
	161	243EB+80	39.2 LT	789.78		-	-	1	-
	162	242EB+87	39.7 LT	789.52		-	-	1	-
	171	246EB+20	47.4 RT	788.01		-	-	1	-
	172	246EB+20	22.0 LT	791.37		-	-	1	-
	172A	246EB+20	40.7 LT	791.14		-	-	1	-
	181	250EB+00	44.4 LT	790.93		-	-	1	-
	181A	250EB+00	22.0 LT	791.04		-	-	1	-
	191	253EB+00	44.7 LT	788.50		-	-	1	-
	191A	253EB+00	33.4 LT	788.35		-	-	1	-
	191B	253EB+00	22.0 LT	789.03		-	-	1	-
	201	248MNE+50	20.0 RT	776.96		-	-	1	-
	211	251MNE+50	17.3 LT	781.49		-	2	-	-
	212	251MNE+50	20.0 RT	782.90		-	-	1	-
	221	261EB+05	45.6 RT	778.38		-	-	1	-
	222	261EB+05	22.0 LT	781.64		-	-	1	-
	223	259EB+00	22.0 LT	782.65		-	-	1	-
	223A	259EB+00	45.0 RT	779.29		-	-	1	-
	224	256EB+00	22.0 LT	785.66		-	-	1	-
	225	256MNE+00	4.9 LT	783.56		-	-	1	-
	225A	254MNE+53	9.7 LT	785.08		-	-	1	-
	226	256MNE+00	20.0 RT	782.08		-	-	1	-
	231	258WB+50	16.0 RT	783.80		1	-	-	-
	231A	258WB+50	22.0 RT	783.44		-	-	1	-
	232	256WB+50	18.0 RT	785.49		1	-	-	-
	232A	256WB+50	30.6 LT	788.02		-	-	1	-
	233	255WB+50	18.0 RT	786.54		1	-	-	-
	233A	255WB+50	34.5 RT	785.55		-	-	1	-
	251	262EB+42	22.0 LT	781.44		-	-	1	-
	251A	262EB+42	34.2 LT	781.06		-	-	1	-
SUBTOTAL						7	2	46	8

3

STORM SEWER COVER (CONTINUE)

CATERGORY	STRUCTURE NUMBER	STATION	OFFSET	RIM ELEVATION (FT)	DEPTH	611.0535 MANHOLES COVER TYPE J-S EACH	611.0642 INLET COVERS TYPE MS EACH	611.0654 INLETS COVER TYPE V EACH	SPV.0060.016 BOLTING INLET COVERS EACH
1000									
	252	263EB+80	22.0 LT	781.64		-	-	1	-
	271	266EB+50	22.0 LT	783.03		-	-	1	-
	271A	266EB+50	28.1 LT	783.01		-	-	1	-
	281	269EB+50	21.6 LT	784.72		-	-	1	-
	282	272EB+50	21.6 LT	786.90		-	-	1	-
	321	243MNE+47	48.4 RT	761.33		-	2	-	-
	322	243MNE+30	16.2 LT	762.84		-	2	-	-
	331	242EB+45	154.3 LT	762.78		1	-	-	-
	332	243EB+47	223.3 LT	759.88		-	2	-	-
	STAGE 1A SUBTOTAL					8	8	51	8
	STAGE 1B								
	283	275EB+50	21.6 LT	789.37		-	-	1	-
	284	278EB+50	21.6 LT	793.07		-	-	1	-
	291B	281EB+50	22.0 LT	797.98		-	-	1	-
	292A	284EB+50	22.0 LT	802.72		-	-	1	-
	293A	286EB+50	22.0 LT	805.06		-	-	1	-
	294A	288EB+00	22.0 LT	806.32		-	-	1	-
	STAGE 1B SUBTOTAL					0	0	6	0
	STAGE 2A								
	114	224EB+75	22.0 RT	753.60		-	-	1	-
	115	225WB+00	16.0 RT	754.36		1	-	-	-
	116	228WB+00	16.0 RT	761.63		1	-	-	-
	116A	228WB+00	22.0 RT	761.41		-	-	1	-
	116B	228WB+00	34.6 RT	761.65		-	-	1	-
	117	228WB+39	16.0 RT	762.59		1	-	-	-
	117A	228WB+39	28.4 RT	762.45		-	-	1	-
	118	228WB+74	16.0 RT	763.44		1	-	-	-
	118A	228WB+74	28.2 RT	763.30		-	-	1	-
	119	231WB+00	16.0 RT	768.99		1	-	-	-
	119A	231WB+00	22.0 RT	768.76		-	-	1	-
	119B	231WB+00	33.6 RT	769.00		-	-	1	-
	261	262WB+24	21.6 RT	781.60		-	-	1	-
	262	263WB+91	21.6 RT	781.41		-	-	1	-
	263	265WB+59	22.0 RT	781.65		-	-	1	-
	291	281EB+50	33.4 LT	798.68		-	-	1	-
	291A	281EB+50	27.5 LT	798.99		-	-	1	-
	292	284EB+50	33.4 LT	803.56		-	-	1	-
	293	286EB+50	33.4 LT	805.92		-	-	1	-
	294	288EB+00	33.4 LT	807.23		-	-	1	-
	STAGE 2A SUBTOTAL					5	0	15	0
	PROJECT ID 1517-75-72 TOTAL					13	8	72	8

FILE NAME : S:\PDS\C3D\WIS441\15177570_72_77_85\SHEETSPLAN\1517-75-72\030200-MQ\NE-15177572-030201-MQ.DWG
LAYOUT NAME - 030214_MQ
PLOT DATE : 4/12/2017 11:35 AM PLOT BY : SLEZAK, KIMBERLY A PLOT NAME : PLOT SCALE : **********
WISDOT/CADDS SHEET 42

STORM SEWER STRUCTURES

CATERGORY	STRUCTURE NUMBER	STATION	OFFSET	RIM ELEVATION (FT)	DEPTH	611.0410 RECONSTRUCTING CATCH BASINS EACH	611.0420 RECONSTRUCTING MANHOLES EACH	611.1005 CATCH BASINS 5-FT DIAMETER EACH	611.2004 MANHOLES 4-FT DIAMETER EACH	611.2005 MANHOLES 5-FT DIAMETER EACH	611.3004 INLET 4-FT DIAMETER EACH	611.3225 INLET 2x2.5-FT EACH	611.3902 INLETS MEDIAN 2 GRATE EACH
1000													
STAGE 1A													
	100	218EB+71	22.0 LT	746.36		-	-	-	-	-	1	-	-
	100A	218EB+71	30.7 LT	746.76		-	-	-	-	-	1	-	-
	101	219EB+80	22.0 LT	746.55		-	-	-	-	-	-	1	-
	110	222EB+09	22.5 LT	748.13		1	-	-	-	-	-	-	-
	111	222EB+38	16.0' LT	748.68		-	1	-	-	-	-	-	-
	112	225EB+00	16.0 LT	752.95		-	-	-	-	1	-	-	-
	113	113EB+25	22.0 LT	753.23		-	-	1	-	-	-	-	-
	131	235EB+00	16.0 LT	776.79		-	-	-	-	1	-	-	-
	131A	235EB+00	22.0 LT	776.54		-	-	-	-	-	-	1	-
	131B	235EB+00	27.5 LT	776.40		-	-	-	-	-	-	1	-
	131C	235EB+00	33.1 LT	776.51		-	-	-	-	-	-	1	-
	132	238EB+00	16.0 LT	782.84		-	-	-	1	-	-	-	-
	132A	238EB+00	22.0 LT	782.73		-	-	-	-	-	-	1	-
	132B	238EB+00	33.6 LT	783.39		-	-	-	-	-	-	1	-
	141	239EB+45	34.0 RT	785.07		-	-	-	-	-	1	-	-
	142	239EB+45	22.0 LT	785.46		-	-	-	-	-	1	-	-
	142A	240EB+50	22.0 LT	787.20		-	-	-	-	-	1	-	-
	142B	240EB+50	33.0 RT	785.93		-	-	-	-	-	-	1	-
	143	239EB+45	37.8 LT	786.07		-	-	-	-	-	1	-	-
	143A	240EB+88	42.5 LT	787.97		-	-	-	-	-	-	1	-
	145A	242EB+80	33.0 RT	787.31		-	-	-	-	-	-	1	-
	145B	242EB+80	22.0 LT	790.14		-	-	-	-	-	-	1	-
	151	243EB+67	34.9 RT	787.61		-	-	-	-	-	-	1	-
	152	243EB+68	22.0 LT	790.57		-	-	-	-	-	1	-	-
	152A	244EB+18	22.0 LT	790.54		-	-	-	-	-	-	1	-
	161	243EB+80	39.2 LT	789.78		-	-	-	-	-	1	-	-
	162	242EB+87	39.7 LT	789.52		-	-	-	-	-	-	1	-
	171	246EB+20	47.4 RT	788.01		-	-	-	-	-	-	1	-
	172	246EB+20	22.0 LT	791.37		-	-	-	-	-	-	1	-
	172A	246EB+20	40.7 LT	791.14		-	-	-	-	-	-	1	-
	181	250EB+00	44.4 LT	790.93		-	-	-	-	-	-	1	-
	181A	250EB+00	22.0 LT	791.04		-	-	-	-	-	-	1	-
	191	253EB+00	44.7 LT	788.50		-	-	-	-	-	-	1	-
	191A	253EB+00	33.4 LT	788.35		-	-	-	-	-	-	1	-
	191B	253EB+00	22.0 LT	789.03		-	-	-	-	-	-	1	-
	201	248MNE+50	21.0 RT	776.96		-	-	-	-	-	-	1	-
	211	251MNE+50	17.3 LT	781.49		-	-	-	-	-	-	-	1
	212	251MNE+50	20.0 RT	782.90		-	-	-	-	-	-	1	-
	221	261EB+05	45.6 RT	778.38		-	-	-	-	-	1	-	-
	222	261EB+05	22.0 LT	781.64		-	-	1	-	-	-	-	-
	223	259EB+00	22.0 LT	782.65		-	-	-	-	-	1	-	-
	223A	259EB+00	45.6 RT	779.29		-	-	-	-	-	-	1	-
	224	256EB+00	22.0 LT	785.66		-	-	-	-	-	1	-	-
	225	256MNE+00	4.9 LT	783.56		-	-	-	-	-	1	-	-
	225A	254MNE+53	9.7 LT	785.08		-	-	-	-	-	-	1	-
	226	256MNE+00	20.7 RT	782.08		-	-	-	-	-	-	1	-
	231	258WB+50	16.0 RT	783.80		-	-	-	-	1	-	-	-
	231A	258WB+50	22.0 RT	783.44		-	-	-	-	-	-	1	-
	232	256WB+50	18.0 RT	785.49		-	-	-	1	-	-	-	-
	232A	256WB+50	30.6 LT	788.02		-	-	-	-	-	-	1	-
	233	255WB+50	18.0 RT	786.54		-	-	-	1	-	-	-	-
	233A	255WB+50	34.5 RT	785.55		-	-	-	-	-	-	1	-
	251	262EB+42	22.0 LT	781.44		-	-	-	-	-	1	-	-
	251A	262EB+42	34.2 LT	781.06		-	-	-	-	-	-	1	-
SUBTOTAL						1	1	2	3	3	13	30	1

STORM SEWER STRUCTURES (CONTINUES)

CATERGORY	STRUCTURE NUMBER	STATION	OFFSET	RIM ELEVATION (FT)	DEPTH	611.0410 RECONSTRUCTING CATCH BASINS EACH	611.0420 RECONSTRUCTING MANHOLES EACH	611.1005 CATCH BASINS 5-FT DIAMETER EACH	611.2004 MANHOLES 4-FT DIAMETER EACH	611.2005 MANHOLES 5-FT DIAMETER EACH	611.3004 INLET 4-FT DIAMETER EACH	611.3225 INLET 2x2.5-FT EACH	611.3902 INLETS MEDIAN 2 GRATE EACH
1000													
	252	263EB+80	22.0 LT	781.64		-	-	-	-	-	1	-	-
	271	266EB+50	22.0 LT	783.03		-	-	-	-	-	-	1	-
	271A	266eb+50	28.1 LT	783.01		-	-	-	-	-	-	1	-
	281	268EB+50	21.6 LT	784.72		-	-	1	-	-	-	-	-
	282	275EB+50	21.6 LT	786.90		-	-	-	-	-	1	-	-
	321	243MNE+47	48.4 RT	761.33		-	-	-	-	-	-	-	1
	322	243MNE+30	16.2 LT	762.84		-	-	-	-	-	-	-	1
	331	242EB+45	154.3 LT	762.78		-	-	-	1	-	-	-	-
	332	243EB+47	223.3 LT	759.88		-	-	-	-	-	-	-	1
STAGE 1A SUBTOTAL						1	1	3	4	3	15	32	4
STAGE 1B													
	283	275EB+50	21.6 LT	789.37		-	-	-	-	-	1	-	-
	284	278EB+50	21.6 LT	793.07		-	-	-	-	-	1	-	-
	291B	281EB+50	22.0 LT	797.98		-	-	-	-	-	-	1	-
	292A	284EB+50	22.0 LT	802.72		-	-	-	-	-	-	1	-
	293A	286EB+50	22.0 LT	805.06		-	-	-	-	-	-	1	-
	294A	288EB+00	22.0 LT	806.32		-	-	-	-	-	-	1	-
STAGE 1B SUBTOTAL						0	0	0	0	0	2	4	0
STAGE 2A													
	114	224EB+75	22.0 RT	753.60		-	-	1	-	-	-	-	-
	115	225WB+00	16.0 RT	754.36		-	-	-	-	1	-	-	-
	116	228WB+00	16.0 RT	761.63		-	-	-	1	-	-	-	-
	116A	228WB+00	22.0 RT	761.41		-	-	-	-	-	-	1	-
	116B	228WB+00	34.6 RT	761.65		-	-	-	-	-	-	1	-
	117	228WB+39	16.0 RT	762.59		-	-	-	1	-	-	-	-
	117A	228WB+39	28.4 RT	762.45		-	-	-	-	-	-	1	-
	118	228WB+74	16.0 RT	763.44		-	-	-	1	-	-	-	-
	118A	228WB+74	28.2 RT	763.30		-	-	-	-	-	-	1	-
	119	231WB+00	16.0 RT	768.99		-	-	-	1	-	-	-	-
	119A	231WB+00	22.0 RT	768.76		-	-	-	-	-	-	1	-
	119B	231WB+00	33.6 RT	769.00		-	-	-	-	-	-	1	-
	261	262WB+24	21.6 RT	781.60		-	-	-	-	-	-	1	-
	262	263WB+91	21.6 RT	781.41		-	-	-	-	-	1	-	-
	263	265WB+59	22.0 RT	781.65		-	-	-	-	-	-	1	-
	291	281EB+50	33.4 LT	798.68		-	-	1	-	-	-	-	-
	291A	281EB+50	27.5 LT	798.99		-	-	-	-	-	-	1	-
	292	284EB+50	33.4 LT	803.56		-	-	-	-	-	1	-	-
	293	286EB+50	33.4 LT	805.92		-	-	-	-	-	1	-	-
	294	288EB+00	33.4 LT	807.23		-	-	-	-	-	1	-	-
STAGE 2A SUBTOTAL						0	0	2	4	1	4	9	0
PROJECT ID 1517-75-72 TOTAL						1	1	5	8	4	21	45	4

3

CRASH CUSHIONS

CATERGORY	ROADWAY	STATION	TO	STATION	OFFSET	614.0905 CRASH CUSHIONS TEMPORARY EACH	SPV.0060.203 MAINTENANCE AND REMOVAL OF CRASH CUSHIONS TEMPORARY LEFT IN PLACE BY OTHERS EACH	SPV.0060.204 CRASH CUSHIONS TEMPORARY LEFT IN PLACE EACH	BACK WIDTH FT	OBJECT MARKING PATTERN	CRASH TEST LEVEL	TRAFFIC DIRECTION	TRAFFIC LOCATION	CRASH CUSHION SHIELDS	REMARKS
1000															
	STAGE 1A														
	TEMPORARY USH 10 EB/STH 441 NB	279EBT+73	-	279EBT+73	RT	1	-	-	4	OM-3R (W05-58R)	TL-3	UNIDIRECTIONAL	LT	APPLETON RD SW RAMP	
		279EB+81		279EB+81	RT	1			4	OM-3R (W05-58R)	TL-3	UNIDIRECTIONAL	RT	TRAFFIC ON EBT	
	TEMPORARY USH 10 WB/STH 441 SB	230WBT+77	-	230WBT+77	LT	-	1	-	-	-	-				LEFT IN PLACE FROM 1517-75-75
		245WBT+09	-	245WBT+09	LT	-	1	-	-	-	-				LEFT IN PLACE FROM 1517-75-75
		265WBT+38	-	265WBT+38	LT	1	-	-	4	OM-3R (W05-58R)	TL-3	UNIDIRECTIONAL	LT	WORKERS IN GORE AREA OF MIDWAY ROAD NE RAMP	
	STAGE 1A SUBTOTAL					3	2	0	4						
	STAGE 2A														
	USH 10 EB/STH 441 NB	238EB+50	-	238EB+50	LT	1	-	1	4	OM-3R (W05-58R)	TL-3	UNIDIRECTIONAL	LT	B-70-423 PARAPET	
		216EB+62	-	223EB+21	LT	1	-	-	4	OM-3R (W05-58R)	TL-3	UNIDIRECTIONAL	RT	USH 10 WB/STH 441 SB to I-41 RAMP	
		222EB+40	-	222EB+40	LT	1	-	-	4	OM-3R (W05-58R)	TL-3	UNIDIRECTIONAL	LT	RACINE ROAD NE RAMP	
	STAGE 2A SUBTOTAL					3	0	1							
	PROJECT 1517-75-72 TOTAL					6	2	1							

MGS GUARD RAIL

CATERGORY	ROADWAY	STATION	TO	STATION	OFFSET	614.0397 GUARDRAIL MOW STRIP EMULSIFIED ASPHALT SY	614.2300 MGS GUARDRAIL 3 LF	614.2500 MGS THRIE BEAM TRANSITION LF	614.2610 MGS GUARDRAIL TERMINAL EAT EACH	614.2620 MGS GUARDRAIL TERMINAL TYPE 2 EACH
1000										
	STAGE 1A									
	USH 10 EB/STH 441 NB	261EB+00	-	265EB+25	RT	184	376	39	-	1
	MIDWAY ROAD NE RAMP	246MNE+60	-	247MNE+75	RT	53	76	39	1	-
	APPLETON ROAD SW RAMP	1271ASW+65	-	1275ASW+75	RT	321	707	-	1	1
	STAGE 1A SUBTOTAL					558	1,159	78	2	2
	STAGE 1B									
	USH 10 EB/STH 441 NB	285EB+39	-	288EB+34	RT	138	236	39	1	-
	STAGE 1B SUBTOTAL					138	236	39	1	0
	PROJECT 1517-75-72 TOTAL					696	1,395	117	3	2

3

3

FENCE CHAIN LINK, 6-FT

CATERGORY	ROADWAY	STATION	TO	STATION	OFFSET	616.0206 FENCE CHAIN LINK 6-FT LF
1000						
	STAGE 1A					
	USH 10 EB/STH 441 NB	242EB+45	-	255EB+08	RT	253
		257EB+30	-	273EB+02	RT	1,531
		281EB+83	-	282EB+76	RT	96
	STAGE 1A SUBTOTAL					1,880
	PROJECT 1517-75-72 TOTAL					1,880

TEMPORARY SHIELDING

CATERGORY	ROADWAY	STATION	TO	STATION	OFFSET	SPV.0090.017 TEMPORARY SHIELDING LF
1000						
	STAGE 1A					
	USH 10 EB/STH 441 NB	225EB+60	-	234EB+50	LT	1,200
	UNDISTRIBUTED					300
						1,500
	PROJECT 1517-75-72 TOTAL					1,500

3

MAINTENANCE AND REPAIR OF HAUL ROAD (1517-75-72)

CATERGORY	ROADWAY	618.0100 MAINTENANCE AND REPAIR OF HAUL ROADS (1517-75-72) EACH
1000		
	PROJECT 1517-75-72	1
	PROJECT 1517-75-72 TOTAL	1

MOBILIZATION

CATERGORY	ROADWAY	619.1000 MOBILIZATION EACH
1000		
	PROJECT 1517-75-72	1
	PROJECT 1517-75-72 TOTAL	1

3

WATER

CATERGORY	ROADWAY	624.0100 WATER MGAL
1000		
	WATER FOR COMPACTION	260
	WATER FOR DUST CONTROL	104
	PROJECT 1517-75-72 TOTAL	364

SEEDING

CATERGORY	ROADWAY	625.0500 SALVAGED TOPSOIL SY	629.0210 FERTILIZER TYPE B CWT	630.0130 SEEDING MIXTURE NO. 30 LB	630.0200 SEEDING TEMPORARY LB	SPV.0120.014 WATER FOR SEEDED AREAS MGAL
1000						
STAGE 1A						
	PROJECT 1517-75-72	82,035	52	1,476	1,107	553
	UNDISTRIBUTED	8,204	5	148	111	55
STAGE 1A SUBTOTAL		90,239	57	1,624	1,218	608
STAGE 1B						
	PROJECT 1517-75-72	4,387	1	78	-	3
	UNDISTRIBUTED	439	0	8	-	0
STAGE 1B SUBTOTAL		4,826	1	86	0	3
STAGE 2A						
	PROJECT 1517-75-72	29,411	19	530	-	198
	UNDISTRIBUTED	2,941	2	53	-	20
STAGE 2A SUBTOTAL		32,352	21	583	0	218
PROJECT 1517-75-72 TOTAL		127,416	79	2,292	1,218	829

EROSION CONTROL

CATERGORY	ROADWAY	606.0200 RIPRAP MEDIUM CY	606.0300 RIPRAP HEAVY CY	628.1504 SILT FENCE LF	628.1520 SILT FENCE MAINTENANCE LF	628.1905 MOBILIZATIONS EROSION CONTROL EACH	628.1910 MOBILIZATIONS EMERGENCY EROSION CONTROL EACH	628.2004 EROSION MAT CLASS I TYPE B SY	628.7005 INLET PROTECTION TYPE A EACH	628.7010 INLET PROTECTION TYPE B EACH	628.7020 INLET PROTECTION TYPE D EACH	628.7504 TEMPORARY DITCH CHECKS LF	628.7570 ROCK BAGS EACH	628.7555 CULVERT PIPE CHECKS EACH	645.0120 GEOTEXTILE TYPE HR SY
1000															
STAGE 1A															
	PROJECT 1517-75-72	840	-	502	502	1	2	82,035	42	41	2	312	70	4	-
STAGE 1A SUBTOTAL		840	0	502	502	1	2	82,035	42	41	2	312	70	4	0
STAGE 1B															
	PROJECT 1517-75-72	-	-	-	-	1	2	4,387	5	5	-	-	-	1	-
STAGE 1B SUBTOTAL		0	0	0	0	1	2	4,387	5	5	0	0	0	1	0
STAGE 2A															
	PROJECT 1517-75-72	28	-	535	535	1	2	29,411	28	28	-	84	40	7	-
	POND 4 STA 243WB+57, 417' LT	-	9	-	-	-	-	-	-	-	-	-	-		13
	POND 4 STA 249WB+85, 442' LT	-	9	-	-	-	-	-	-	-	-	-	-		13
STAGE 2A SUBTOTAL		28	18	535	535	1	2	29,411	28	28	0	84	40	7	26
PROJECT 1517-75-72 TOTAL		868	18	1,037	1,037	3	6	115,833	75	74	2	396	110	12	26

CONCRETE PAVEMENT JOINT LAYOUT

CATERGORY	ROADWAY	SPV.0105.019 CONCRETE PAVEMENT JOINT LAYOUT LS
1000		
	PROJECT 1517-75-72	1
	PROJECT 1517-75-72 TOTAL	1

TRACKING PADS

CATERGORY	ROADWAY	628.7560 TRACKING PADS EACH
1000		
	PROJECT 1517-75-72	5
	PROJECT 1517-75-72 TOTAL	5

COLD PATCH

CATERGORY	ROADWAY	SPV.0195.013 COLD PATCH TON
1000		
	UNDISTRIBUTED	10
	PROJECT 1517-75-72 TOTAL	10

3

TRAFFIC CONTROL

CATERGORY	ROADWAY	STAGE DURATION DAYS	643.0200.S TRAFFIC CONTROL SURVEILLANCE AND MAINTENANCE (PROJECT) 1517-75-72 DAYS	643.0300 TRAFFIC CONTROL DRUMS EACH	643.0300 TRAFFIC CONTROL DRUMS DAYS	643.0420 TRAFFIC CONTROL BARRICADES TYPE III EACH	643.0420 TRAFFIC CONTROL BARRICADES TYPE III DAYS	643.0705 TRAFFIC CONTROL WARNING LIGHTS TYPE A EACH	643.0705 TRAFFIC CONTROL WARNING LIGHTS TYPE A DAYS	643.0715 TRAFFIC CONTROL WARNING LIGHTS TYPE C EACH	643.0715 TRAFFIC CONTROL WARNING LIGHTS TYPE C DAYS	643.0900 TRAFFIC CONTROL SIGNS EACH	643.0900 TRAFFIC CONTROL SIGNS DAYS	643.1050 TRAFFIC CONTROL SIGNS PCMS** EACH	643.1050 TRAFFIC CONTROL SIGNS PCMS** DAYS
1000															
STAGE 1A															
	1517-75-72	330	330	252	83,160	26	8,580	52	17,160	69	22,770	62	20,460	6	84
			-	-	-	-	-	-	-	-	-	-	-	-	-
STAGE 1A SUBTOTAL			330		83,160		8,580		17,160		22,770		20,460		84
STAGE 1B															
	1517-75-72	30	30	259	7,770	29	870	58	1,740	64	1,920	71	2,130	1	14
			-	-	-	-	-	-	-	-	-	-	-	-	-
STAGE 1B SUBTOTAL			30		7,770		870		1,740		1,920		2,130		14
STAGE 2A															
	1517-75-72	180	180	225	40,500	21	3,780	36	6,480	45	8,100	57	10,260	3	42
			-	-	-	-	-	-	-	-	-	-	-	-	-
STAGE 2A SUBTOTAL			180		40,500		3,780		6,480		8,100		10,260		42
STAGE 2B															
	1517-75-72	5	5	142	710	17	85	34	170	45	225	44	220	2	28
			-	-	-	-	-	-	-	-	-	-	-	-	-
STAGE 2B SUBTOTAL			5		710		85		170		225		220		28
PROJECT 1517-75-72 TOTAL			545		132,140		13,315		25,550		33,015		33,070		168

NOTE
**- STAGE DURATION FOR THIS 643.1050 is 14 days.

FILE NAME : S:\PDS\C3D\WIS441\15177570_72_77_85\SHEETSPLAN\1517-75-72\030200-MQ\NE-15177572-030201-MQ.DWG
LAYOUT NAME - 030220_MQ
PLOT DATE : 4/12/2017 11:36 AM PLOT BY : SLEZAK, KIMBERLY A PLOT NAME : PLOT SCALE : **********
WISDOT/CADDS SHEET 42

TRAFFIC CONTROL CONTINUED

CATERGORY	ROADWAY	SPV.0060.205 MAINTAIN TRAFFIC CONTROL SIGNS LEFT IN PLACE EACH	SPV.0060.206 MAINTAIN TRAFFIC CONTROL DRUMS LEFT IN PLACE EACH	SPV.0060.207 MAINTAIN TRAFFIC CONTROL BARRICADES LEFT IN PLACE EACH	SPV.0060.208 MAINTAIN TRAFFIC CONTROL WARNING LIGHTS TYPE A LEFT IN PLACE EACH	SPV.0060.209 MAINTAIN TRAFFIC CONTROL WARNING LIGHTS TYPE C LEFT IN PLACE EACH
1000						
	STAGE 1A					
	1517-75-72	13	94	5	10	8
		-	-	-	-	-
	STAGE 1A SUBTOTAL	13	94	5	10	8
	STAGE 1B					
	1517-75-72	7	-	5	10	-
		-	-	-	-	-
	STAGE 1B SUBTOTAL	7	0	5	10	0
	STAGE 2A					
	1517-75-72	-	-	-	-	-
		-	-	-	-	-
	STAGE 2A SUBTOTAL	0	0	0	0	0
	STAGE 2B					
	1517-75-72	-	-	-	-	-
		-	-	-	-	-
	STAGE 2B SUBTOTAL	0	0	0	0	0
	PROJECT 1517-75-72 TOTAL	20	94	10	20	8

TRAFFIC CONTROL CONTINUED

CATERGORY	ROADWAY	SPV.0060.210 TRAFFIC CONTROL SIGNS LEFT IN PLACE EACH	SPV.0060.211 TRAFFIC CONTROL DRUMS LEFT IN PLACE EACH	SPV.0060.212 TRAFFIC CONTROL BARRICADES LEFT IN PLACE EACH	SPV.0060.213 TRAFFIC CONTROL WARNING LIGHTS TYPE A LEFT IN PLACE EACH	SPV.0060.214 TRAFFIC CONTROL WARNING LIGHTS TYPE C LEFT IN PLACE EACH
1000						
	STAGE 2B					
	1517-75-72	44	142	17	34	45
		-	-	-	-	-
	STAGE 2B SUBTOTAL	44	142	17	34	45
	PROJECT 1517-75-72 TOTAL	44	142	17	34	45

PAVEMENT MARKING

CATERGORY	ROADWAY	646.0600 REMOVING PAVEMENT MARKING	646.0106 PAVEMENT MARKING EPOXY 4-INCH			646.0126 PAVEMENT MARKING EPOXY 8-INCH		649.0400 TEMPORARY PAVEMENT MARKING REMOVABLE TAPE	649.0801 TEMPORARY PAVEMENT MARKING REMOVABLE TAPE	649.0403 TEMPORARY PAVEMENT MARKING EPOXY 4-INCH			649.0803 TEMPORARY PAVEMENT MARKING EPOXY 8-INCH	
			YELLOW LF	WHITE LF	12.5 FT LINE WHITE	WHITE	3 FT LINE WHITE	4-INCH WHITE	8-INCH WHITE	YELLOW LF	WHITE LF	12.5 FT LINE WHITE	WHITE	3 FT LINE WHITE
1000														
	STAGE 1A													
	TEMPORARY USH 10 EB/STH 441 NB	111,452	-	-	-	-	-	-	-	17,399	23,392	16,406	3,107	3,259
	STAGE 1A SUBTOTAL	111,452	0	0	0	0	0	0	0	17,399	23,392	16,406	3,107	3,259
	STAGE 1B													
	TEMPORARY USH 10 EB/STH 441 NB	12,384	-	-	-	-	-	2,104	240	-	-	-	-	-
	STAGE 1B SUBTOTAL	12,384	0	0	0	0	0	2,104	240	0 0	0	0	0	0
	STAGE 2A													
	USH 10 EB/STH 441 NB	123,836	16,878	23,707	14,901	4,257	3,109	-	-	-	-	-	-	-
	STAGE 2A SUBTOTAL	123,836	16,878	23,707	14,901	4,257	3,109	0	0	0 0	0	0	0	0
	STAGE 2B													
	USH 10 EB/STH 441 NB	12,138	4,263	2,332	4,036	133	603	-	-	-	-	-	-	-
	STAGE 2B SUBTOTAL	12,138	4,263	2,332	4,036	133	603	0	0	0	0	0	0	0
	PROJECT 1517-75-72 TOTAL	259,810			66,117		8,102	2,104	240			57,197		6,366

SAWING

CATERGORY	ROADWAY	690.0150 SAWING ASPHALT LF	690.0250 SAWING CONCRETE LF
1000			
	STAGE 1A		
	PROJECT 1517-75-72	1083	2323
	STAGE 1A SUBTOTAL	1083	2323
	STAGE 1B		
	PROJECT 1517-75-72	268	-
	STAGE 1B SUBTOTAL	268	0
	STAGE 2A		
	PROJECT 1517-75-72	139	103
	STAGE 2A SUBTOTAL	139	103
	PROJECT 1517-75-72 TOTAL	1,490	2,426

STREET SWEEPING

CATERGORY	ROADWAY	SPV.0075.015 STREET SWEEPING HRS
1000		
	PROJECT 1517-75-72	100
	PROJECT 1517-75-72 TOTAL	100

SURVEY PROJECT

CATERGORY	ROADWAY	SPV.0105.018 SURVEY PROJECT 1517-75-72 LS
1000		
	PROJECT 1517-75-72	1
	PROJECT 1517-75-72 TOTAL	1

TEMPORARY WALL WIRE FACED MECHANICALLY STABILIZED EARTH LFRD/QMP

CATERGORY	ROADWAY	STATION TO STATION	OFFSET	SPV.0165.852 TEMPORARY WALL WIRE FACED MECHANICAL STABILIZED EARTH LFRD/QMP SF
1000				
	STAGE 1A			
	USH 10 EB/STH 441 NB	225EB+60 - 234EB+50	LT	6,090
	STAGE 1A SUBTOTAL			6,090
	PROJECT 1517-75-72 TOTAL			6,090

WICK DRAINS

CATERGORY	ROADWAY	STATION		STATION	LOCATION	SPV.0035.004 DRAINAGE BLANKET CY	SPV.0090.007 PREFABRICATED VERTICAL DRAINS* LF	SPV.0090.008 PREBORED PREFABRICATED VERTICAL DRAINS LF	SPV.0090.009 6-INCH GEOCOMPOSITE STRIP DRAINS LF
1000									
STAGE 1A									
	USH 10 EB/STH 441 NB	228EB+00	-	238EB+65	AREA 1	5,507	200,280	133,520	32,776
		238EB+64	-	241EB+37	AREA 2	1,795	240,480	160,320	11,800
		242EB+38	-	244EB+00	AREA 3	2,366	158,250	105,500	-
		244EB+00	-	245EB+50	AREA 4	2,540	48,900	32,600	-
		245EB+50	-	252EB+50	AREA 5	729	29,730	19,820	4,627
		252EB+50	-	260EB+00	AREA 6	2,822	108,450	72,300	17,658
		25+EB+32	-	260EB+00	AREA 7	815	31,200	20,800	5,077
STAGE 1A SUBTOTAL						16,574	817,290	544,860	71,938
STAGE 2A									
	USH 10 EB/STH 441 NB	228EB+00	-	239EB+50	AREA 8	2,996	118,350	78,900	19,114
		256EB+32	-	260EB+00	AREA 9	306	12,480	8,320	1,910
STAGE 2A SUBTOTAL						3,303	130,830	87,220	21,024
PROJECT 1517-75-72 TOTAL						19,876	948,120	632,080	92,962

* WICK DRAIN TIP ELEVATION IS TO THE BOTTOM OF THE SOIL LAYER. ACTUAL DEPTH MAY VARY BASED ON SOIL CONDITIONS ENCOUNTERED. ESTIMATED AT 30-FT IN DEPTH (ELEVATION 745.0')

GEOTECHNICAL INSTRUMATAION

CATERGORY	ROADWAY	STATION		STATION	OFFSET	SPV.0060.005 VIBRATING WIRE PIEZOMETER INSTRUMENTATION SYSTEM DELIVERED EACH	ELEVATION	SPV.0060.006 SETTLEMENT GAUGES EACH	ELEVATION
1000									
STAGE 1A									
	USH 10 EB/STH 441 NB	233EB+50	-	233EB+50	86' RT	-	-	1	757'
		236EB+00	-	236EB+00	105' RT	-	-	1	762'
		238EB+00	-	238EB+00	40' RT	-	-	1	764'
		238EB+50	-	238EB+50	40' RT	-	-	1	764'
		239EB+00	-	239EB+00	40' RT	-	-	1	764'
		240EB+25	-	240EB+25	30' RT	1	750'	1	764'
		240EB+25	-	240EB+25	30' RT	1	740'		
		241EB+00	-	241EB+00	30' RT	-	-	-	-
		243EB+00	-	243EB+00	30' RT	1	745'	1	764'
		252EB+00	-	252EB+00	100' RT	-	-	1	770'
		255EB+00	-	255EB+00	60' RT	1	-	1	768'
	USH 10 WB/STH 441 SB	241WB+60	-	241WB+60	30' LT	-	-	-	-
		240WB+10	-	240WB+10	5' LT			1	764'
		242WB+30	-	242WB+30	35' LT	1	750'	1	760'
		244WB+50	-	244WB+50	40' LT	1	750'	1	760'
STAGE 1A SUBTOTAL						6		12	

3

REMOVAL OF TYPE I & II SIGN AND SUPPORTS

SIGN NO.	LOCATION	SIGN CODE	638.2102 MOVING SIGNS TYPE II EACH	638.2601 REMOVING SIGNS TYPE I EACH	638.2602 REMOVING SIGNS TYPE II EACH	638.3000 REMOVING SMALL SIGN SUPPORTS EACH	638.3100 REMOVING STRUCT. STEEL SIGN SUPPORTS EACH	638.4000 MOVING SMALL SIGN SUPPORTS EACH	643.0920 COVERING SIGNS TYPE II EACH	SPV.0105.950 REMOVING SIGN BRIDGE LS	REMARKS
10	STH 441/ USH 10, W. OF CTH AP	R3-4B	---	---	1	1	---	---	---	---	
11	"	R3-4B	---	---	1	1	---	---	---	---	
12	"	E7-2	---	1	---	---	---	---	---	1	ALSO REMOVE E6-1 AND E1-5, REMOVE EXISTING STRUCTURE S-70-155
14	"	E5-1A	---	---	1	2	---	---	---	---	
15	CTH AP NB OFF RAMP	W3-1	---	---	1	1	---	---	---	---	
16	"	D1-3	---	---	1	2	---	---	---	---	
17	"	J3-2	---	---	1	1	---	---	---	---	
18	"	R5-1A	---	---	---	---	---	---	---	---	PART OF SIGN 17 REMOVAL
19	"	R5-1A	---	---	---	---	---	---	---	---	PART OF SIGN 16 REMOVAL
20	CTH AP SB ON RAMP	R2-1	---	---	1	1	---	---	---	---	
21	STH 441/ USH 10, W. OF CTH AP	W4-3	---	---	1	2	---	---	---	---	
22	"	E1-51A	---	1	---	---	2	---	---	---	ALSO REMOVE E1-5
24	CTH AP SB OFF RAMP	J3-2	---	---	1	1	---	---	---	---	
25	"	R5-1A	---	---	1	1	---	---	---	---	
26	STH 441/ USH 10, E. OF CTH AP	W1-6	---	---	1	1	---	---	---	---	
27	"	W4-1	---	---	1	2	---	---	---	---	
28	CTH AP SB OFF RAMP	D1-3	---	---	1	2	---	---	---	---	
29	"	W3-1	---	---	1	1	---	---	---	---	
30	"	D10-3	---	---	1	1	---	---	---	---	
31	"	E5-1A	---	---	1	2	---	---	---	---	
32	STH 441/ USH 10, E. OF CTH AP	R3-4B	---	---	1	1	---	---	---	---	
33	"	R2-1	---	---	1	2	---	---	---	---	
34	"	R3-4B	---	---	1	1	---	---	---	---	
35	"	I55-56	---	---	1	1	---	---	---	---	
36	"	E4-1A	---	1	---	---	2	---	---	---	ALSO REMOVE E1-5
37	"	E5-1A	---	---	1	2	---	---	---	---	
	PAGE SUBTOTALS		0	3	21	29	4	0	0	1	

PLAN SHEET PRODUCED
BY WisDOT - NE REGION

3

REMOVAL OF TYPE I & II SIGN AND SUPPORTS

SIGN NO.	LOCATION	SIGN CODE	638.2102 MOVING SIGNS TYPE II EACH	638.2601 REMOVING SIGNS TYPE I EACH	638.2602 REMOVING SIGNS TYPE II EACH	638.3000 REMOVING SMALL SIGN SUPPORTS EACH	638.3100 REMOVING STRUCT. STEEL SIGN SUPPORTS EACH	638.4000 MOVING SMALL SIGN SUPPORTS EACH	643.0920 COVERING SIGNS TYPE II EACH	SPV.0105.950 REMOVING SIGN BRIDGE LS	REMARKS
38	CTH AP	J3-2	---	---	1	1	---	---	---	---	
39	"	R11-54F	---	---	---	---	---	---	---	---	PART OF SIGN 38 REMOVAL
40	"	R3-2	---	---	1	1	---	---	---	---	
41	USH 10 OFF RAMP TO CTH AP	R5-1	---	---	1	1	---	---	---	---	
42	"	R6-2R	---	---	---	---	---	---	---	---	PART OF SIGN 41 REMOVAL
43	"	R1-1F	---	---	1	1	---	---	---	---	
44	"	R6-2L	---	---	---	---	---	---	---	---	PART OF SIGN 43 REMOVAL
45	"	R1-1F	---	---	1	1	---	---	---	---	
46	"	R5-1	---	---	---	---	---	---	---	---	PART OF SIGN 45 REMOVAL
47	CTH AP ON RAMP TO USH 10	R11-54F	---	---	1	1	---	---	---	---	
48	"	R5-57	---	---	1	1	---	---	---	---	
49	CTH AP	R3-20L	---	---	1	1	---	---	---	---	
50		J2-2	---	---	---	---	---	---	1	---	COVER DURING STAGE 1, 1 CYCLE
51		R3-20L	---	---	1	1	---	---	---	---	
52		J2-2	---	---	1	1	---	---	---	---	
53	USH 10 OFF RAMP TO CTH AP	R5-1	---	---	1	1	---	---	---	---	
54		J3-1	---	---	---	---	---	---	---	---	PART OF SIGN 53 REMOVAL
55		R1-1F	---	---	1	1	---	---	---	---	
56		R1-1F	---	---	1	1	---	---	---	---	
57		R6-2L	---	---	---	---	---	---	---	---	PART OF SIGN 56 REMOVAL
58		R6-2R	---	---	1	1	---	---	---	---	
59		R5-1	---	---	---	---	---	---	---	---	PART OF SIGN 58 REMOVAL
60	CTH AP	J3-2	1	---	---	---	---	1	---	---	REMOVE IN STAGE 1, REINSTALL IN STAGE 2
61	CTH AP ON RAMP TO USH 10	R5-57	1	---	---	---	---	1	---	---	REMOVE IN STAGE 1, REINSTALL IN STAGE 2
62		R11-54F	1	---	---	---	---	1	---	---	REMOVE IN STAGE 1, REINSTALL IN STAGE 2
63		R6-2L	---	---	1	1	---	---	---	---	
64		R5-1	1	---	---	---	---	1	---	---	REMOVE IN STAGE 1, REINSTALL IN STAGE 2
65	"	J3-2	1	---	---	---	---	---	---	---	REMOVE IN STAGE 1, REINSTALL IN STAGE 2
66		R11-54F	1	---	---	---	---	---	---	---	REMOVE IN STAGE 1, REINSTALL IN STAGE 2
67		R3-2	---	---	1	---	---	---	---	---	
68	"	J1-2	1	---	---	---	---	1	---	---	REMOVE IN STAGE 1, REINSTALL IN STAGE 2
	PAGE SUBTOTALS		7	0	16	15	0	5	1	0	
	PROJECT TOTALS		**7**	**3**	**37**	**44**	**4**	**5**		**1**	

PLAN SHEET PRODUCED
BY WisDOT - NE REGION

3

CONDUIT & WIRING

WIS 441 Lighting - Contract 1517-75-72

CATEGORY	SYSTEM	CB/POLE/PB	FROM	CB/POLE/PB	TO	# OF CONDUITS	EXISTING CONDUIT INSTALLED BY OTHERS	# OF PHASE CONDUCTORS	# OF GROUND CONDUCTORS	652.0225 CONDUIT RIGID NONMETALLIC SCHEDULE 40 2-INCH	655.0610 ELECTRICAL WIRE LIGHTING 12 AWG	655.0615 ELECTRICAL WIRE LIGHTING 10 AWG	655.0620 ELECTRICAL WIRE LIGHTING 8 AWG	655.0625 ELECTRICAL WIRE LIGHTING 6 AWG
										LF	LF	LF	LF	LF
1100	441 NB/10 EB MAINLINE	LPB101	STA 240+35	LJB101	STA 241+69	1		-	-	STR	-	-	-	-
	B-70-423	LJB101	STA 241+69	LPB102	STA 243+10	1		-	-	STR	-	-	-	-
	APPLETON ROAD	ESL302	STA 1283+25	ESL303	STA 1281+72	1	153	2	1	EX	EX	EX	342	-
	ASW RAMP	ESL303	STA 1281+72	ELPB301	STA 1281+00	1		4	1	72	-	90	360	-
		ELPB301	STA 1281+00	LPB302	STA 1279+00	1		-	-	200	-	-	-	-
		ELPB301	STA 1281+00	ELPB302	STA 1281+00	1	53	4	1	EX	-	71	284	-
		ELPB302	STA 1281+00	SL312	STA 1279+15	1		4	1	185	330	203	812	-
		SL312	STA 1279+15	LPB301	STA 1279+00	1		4	1	15	-	33	132	-
		LPB301	STA 1279+00	LPB302	STA 1279+00	1		4	1	48	-	66	264	-
		LPB302	STA 1279+00	SL313	STA 1276+66	1		4	1	234	165	252	1008	-
		SL313	STA 1276+66	SL314	STA 1274+15	1		4	1	251	165	269	1076	-
		SL314	STA 1274+15	SL315	STA 1271+88	1		4	1	227	165	245	980	-
		SL315	STA 1271+88	SL316	STA 269+12	1		2	1	275	165	293	586	-
		SL316	STA 269+12	STUB-OUT	STA 269+06	1		-	-	6	-	-	-	-
		SL412	STA 212+25	SL413	STA 215+00	1		4	1	45	EX	-	291	1164
PROJECT TOTAL										**1558**	**990**	**1522**	**6135**	**1164**

ALL ITEMS ARE CATEGORY **1000** UNLESS OTHERWISE SPECIFIED.

POLES, ARMS, & LUMINAIRES

WIS 441 Lighting - Contract 1517-75-72

CATEGORY	SYSTEM	LOCATION	STATION	654.0107 CONCRETE BASES TYPE 7	657.0210 TRANSFORMER BASES BREAKAWAY 15-17 INCH BOLT CIRCLE	657.0337 POLES TYPE 17-ALUMINUM	657.0730 LUMINAIRE ARMS TRUSS TYPE 6-INCH CLAMP 12-FT	659.1125 LUMINAIRES UTILITY LED C
				EACH	EACH	EACH	EACH	EACH
1100	APPLETON ROAD ASW RAMP	SL312	STA 1279+15	1	1	1	2	2
		SL313	STA 1276+66	1	1	1	1	1
		SL314	STA 1274+15	1	1	1	1	1
		SL315	STA 1271+88	1	1	1	1	1
		SL316	STA 269+12	1	1	1	1	1
PROJECT TOTAL				**5**	**5**	**5**	**6**	**6**

PULL BOXES & JUNCTION BOXES

WIS 441 Lighting - Contract 1517-75-72

CATEGORY	SYSTEM	DESCRIPTION	STATION	OFFSET		SPV.0060.350 PULL BOX NON-CONDUCTIVE 24X42-INCH
						EACH
1100						
	441 NB/10 EB MAINLINE B-70-423	LPB101	STA 240+35	31.00	LT	1
		LPB102	STA 243+10	31.00	LT	1
		LJB101	STA 241+69	25.00	LT	-
	APPLETON ROAD EXIT ASW RAMP	LPB301	STA 1279+00	12.00	LT	1
		LPB302	STA 1279+00	36.00	RT	1
PROJECT TOTAL						**4**

ALL ITEMS ARE CATEGORY **1000** UNLESS OTHERWISE SPECIFIED.

ITS PULL BOX, COMMUNICATION VAULT & MANHOLE ITEMS

STATION	LOCATION	ITEM ID	653.0180 PULL BOXES STEEL COMMUNICATIONS 24X36-INCH COMM PB EACH	653.0180 PULL BOXES STEEL COMMUNICATIONS 24X36-INCH ELECTRICAL PB EACH
CATEGORY 1200				
			-	-
242MNE+87	RT	PB-E101	-	1
242MNE+83	LT	PB-E102	-	1
241WB+86	LT	PB-E104	-	1
242WB+63	LT	PB-E105	-	1
242WB+86	LT	PB-C101	1	-
TOTAL			1	4
			5	

ITS CONDUIT & CABLE ITEMS

FROM	TO	LINEAR DISTANCE	NO. OF CONDUIT	NO. OF CABLE 6 AWG	NO. OF CABLE 10 AWG	652.0225 CONDUIT RIGID NONMETALLIC SCHEDULE 40 2-INCH LF	671.0112 CONDUIT HDPE 1-DUCT 2-INCH LF	671.0122 CONDUIT HDPE 2-DUCT 2-INCH LF	671.0212 CONDUIT HDPE DIRECTIONAL BORE 1-DUCT 2-INCH	655.0615 ELECTRICAL WIRE LIGHTING 10 AWG LF	655.0625 ELECTRICAL WIRE LIGHTING 6 AWG LF
CATEGORY 1200											
ELECTRICAL SERVICE	PB-E101	56	1	3	1	-	-	56	-	56	168
PB-E101	PB-E102	61	1	3	1	-	-	-	61	61	183
PB-E102	PB-E104	225	1	3	1	-	-	-	225	225	675
PB-E104	PB-E105\PB-C101	58	1	3	1	-	58	-	-	58	174
CCTV-70-0086	PB-C101	43	1	-	-	43	-	-	-	-	-
CCTV-70-0086	PB-E105	31	1	3	1	31	-	-	-	31	93
TOTALS						74	58	56	286	431	1,293

ITS CCTV ITEMS

STATION	ITEM ID	672.0250 BASE CAMERA POLE 50 FT EACH	677.0150 INSTALL CAMERA POLE 50 FT EACH	SPV.0060.400 REMOVE AND RELOCATE CAMERA ASSEMBLY EACH	SPV.0060.401 REMOVE AND RELOCATE ETHERNET SWITCH EACH	SPV.0060.402 REMOVE AND RELOCATE VIDEO ENCODER EACH	SPV.0060.403 REMOVE AND RELOCATE RADIO LINK EACH	SPV.0060.405 REMOVE AND RELOCATE POLE MOUNTED CABINET EACH	SPV.0060.406 REMOVE WOOD POLE EACH
CATEGORY 1200									
		1	1	1	1	1	2	1	1
TOTALS		1	1	1	1	1	2	1	1

ALL ITEMS ARE CATEGORY **1000** UNLESS OTHERWISE SPECIFIED.

TRANSPORTATION PROJECT PLAT NO: 1517-07-21 - 4.15
AMENDMENT NO. 1

USH 10 / STH 441, CTH CB - S. ONEIDA ST.
ADDS UTILITY NUMBERS 518, 618, AND 619 TO TPP 1517-07-21 - 4.15
RECORDED AS DOCUMENT 1658571
PART OF LOTS 5 AND 6, BLOCK 3 OF BUTTE DES MORTS HEIGHTS AND LANDS IN THE NW 1/4 OF THE NW 1/4, SECTION 11, TOWNSHIP 20 NORTH, RANGE 17 EAST, TOWN OF MENASHA, AND LOT 1, BLOCK 1, FRITSCH SUBDIVISION AND LANDS IN THE NE 1/4 OF THE NW 1/4 OF SECTION 11, TOWNSHIP 20 NORTH, RANGE 17 EAST, CITY OF MENASHA, ALL IN WINNEBAGO COUNTY, WISCONSIN.

RELOCATION ORDER USH 10/STH 441 WINNEBAGO 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 NAMED PROJECT.

TO EFFECT THIS CHANGE, PURSUANT TO AUTHORITY GRANTED UNDER SUBSECTIONS 84.02 (3), 84.09 AND 84.30, 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 NAMED 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 SUBSECTION 84.09 (1) OR (2), WISCONSIN STATUTES.

SCHEDULE OF LANDS & INTERESTS REQUIRED

PARCEL NUMBER	*OWNER	INTEREST REQUIRED	NEW R/W ACRES	P.L.E. ACRES	T.L.E. ACRES	H.E. ACRES
84	NICK & LISA A. BONGEAN	TLE	-	-	0.018	-
87	JOHN L. & VICKIE T. SAMP	FEE/TLE	0.068	-	0.117	-
88	WISCONSIN CENTRAL LTD.	HE	-	-	-	0.075
89	DICK & STEVE EARL	FEE	0.173	-	-	-
90	WINNEBAGO COUNTY	STRUCTURES	-	-	-	-
91	MIDWAY CORPORATION	FEE/TLE	0.061	-	0.052	-
92	3 RB LLC	FEE/TLE	0.004	-	0.005	-

*OWNER'S NAMES ARE SHOWN FOR REFERENCE PURPOSES ONLY, AND ARE SUBJECT TO CHANGE PRIOR TO TRANSFER OF LAND INTERESTS TO THE WISCONSIN DEPARTMENT OF TRANSPORTATION.

SCHEDULE OF UTILITIES & INTERESTS REQUIRED

UTILITY NUMBER	*OWNER	INTEREST REQUIRED
500	WE ENERGIES - ELECTRIC	RELEASE OF RIGHTS
503	AT&T WISCONSIN	RELEASE OF RIGHTS
505	TOWN OF MENASHA - SANITARY SEWER	RELEASE OF RIGHTS
518	MENASHA UTILITIES - ELECTRIC	RELEASE OF RIGHTS
605	TOWN OF MENASHA - SANITARY SEWER	UTILITY AGREEMENT
618	MENASHA UTILITIES - ELECTRIC	UTILITY AGREEMENT
619	MENASHA UTILITIES - WATER	UTILITY AGREEMENT
622	TOWN OF MENASHA - WATER	UTILITY AGREEMENT

STATION OFFSET TABLE

POINT	STATION	OFFSET		X	Y
DB929	237+48.23	0		818591.965	550319.747
DB930	240+52.43	0		818707.537	550601.130
DB956	243+85.16	701.08	R	819467.553	550598.294
DB962	239+00.47	373.93	L	818303.916	550602.636
DB963	225+39.20	0		817982.221	549280.358
DB964	226+45.50	140.77	R	818159.663	549279.589
PRW1238	242+72.04	633.43	R	819374.155	550556.643
PRW1239	242+08.32	505.73	R	819234.571	550553.190
PRW1240	241+84.46	488.00	R	819209.113	550537.861
TLE1295	229+20.37	203.47	L	818035.864	549700.871
TLE1296	226+70.93	141.06	L	817949.481	549469.051
TLE1297	227+97.40	142.80	L	818019.706	549569.174
HE1299	240+46.30	187.35	R	818878.509	550524.289
PRW1300	240+75.83	257.92	R	818955.013	550524.788
PRW1301	241+50.73	436.95	R	819149.075	550526.053
TLE1302	241+92.30	507.06	R	819229.722	550537.871
TLE1309	243+14.98	722.53	R	819467.363	550547.460
PRW1310	243+28.96	718.43	R	819467.401	550557.461
PRW1311	243+39.85	715.18	R	819467.430	550565.294
TLE1958	242+08.88	528.37	R	819255.724	550545.106
ERW7093	224+16.03	150.28	L	817789.290	549281.844
ERW7094	228+06.45	130.15	L	818035.101	549569.110
ERW7097	229+64.00	138.82	L	818112.894	549700.682
ERW7098	230+39.04	126.67	L	818162.022	549755.657
ERW7099	232+97.13	142.84	L	818273.282	549980.062
ERW7100	233+79.89	152.48	L	818302.021	550055.245
ERW7297	238+71.29	360.42	L	818305.327	550570.514

CURVE TABLE

CURVE	CH DISTANCE	CH BEARING	RADIUS	ARC LENGTH	PI COORDINATES
C1	1205.04'	N30°23'51"E	4293.00'	1209.03'	X 818294.839 Y 549596.336

RL USH-10/STH-441
PI STA. 229+83.14
Y : 549596.336
X : 818294.839
DELTA = 20°38'55"
D = 1°20'05"
T = 782.05
L = 1547.14
R = 4293.00

COURSE TABLE
NEW RIGHT OF WAY

POINT TO POINT		BEARING	DISTANCE
2017035	DB962	S89°47'10"E	662.10
DB962	DB956	S89°47'10"E	1163.65
DB956	PRW1310	S00°12'50"W	40.83
PRW1310	PRW1238	S89°29'52"W	93.25
PRW1238	PRW1239	S88°34'58"W	139.63
PRW1239	PRW1240	S58°56'48"W	29.72
PRW1240	PRW1301	S78°52'26"W	61.19
PRW1301	HE1299	S89°37'35"W	270.57
HE1299	DB964	S30°00'27"W	1437.36
DB964	ERW7093	N89°39'04"W	370.38
ERW7093	ERW7094	N40°33'12"E	378.08
ERW7094	ERW7097	N30°35'38"E	152.85
ERW7097	ERW7098	N41°47'08"E	73.73
ERW7098	ERW7099	N26°22'20"E	250.47
ERW7099	ERW7100	N20°55'10"E	80.49
ERW7100	ERW7297	N00°22'03"E	515.28
ERW7297	DB962	N02°30'55"W	32.15

COURSE TABLE
USH 10/STH 441 REFERENCE LINE

POINT TO POINT		BEARING	DISTANCE
2017048	DB963	N15°03'54"E	1368.77
DB963	DB929	CURVE C1	
DB929	DB930	N22°19'46"E	304.19
DB930	2017036	S89°47'10"E	1575.71

SEC 2017-035
ALUM. DISK
Y 550605.107
X 817641.817

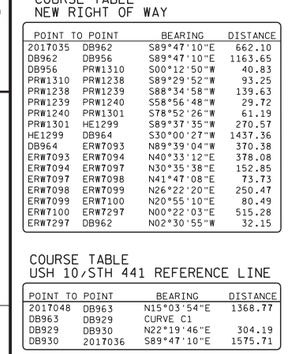
SEE PLAT NO. 1517-07-21-4.16

SEE PLAT NO. 1517-07-21-4.17

QTR 2017-036
MAG NAIL
Y 550595.250
X 820283.233

SEE PLAT NO. 1517-07-21-4.14

QTR 2017-048
SURVEY NAIL
Y 547958.626
X 817626.459



NOTES:

POSITIONS SHOWN ON THIS PLAT ARE WISCONSIN COUNTY COORDINATES, WINNEBAGO COUNTY, NAD 83 (91) IN U.S. SURVEY FEET. VALUES SHOWN ARE GRID COORDINATES, GRID BEARINGS, AND GRID DISTANCES. GRID DISTANCES MAY BE USED AS GROUND DISTANCES.

RIGHT OF WAY BOUNDARIES ARE DEFINED WITH COURSES OF THE PERIMETER OF THE HIGHWAY LANDS AND ARE REFERENCED TO THE US PUBLIC LAND SURVEY OR OTHER SURVEYS OF PUBLIC RECORD.

DIMENSIONING FOR THE NEW RIGHT-OF-WAY IS MEASURED ALONG AND PERPENDICULAR TO NEW REFERENCE LINES.

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 AND SHOULD NOT BE USED AS A SUBSTITUTE FOR AN ACCURATE FIELD SURVEY.

A TEMPORARY LIMITED EASEMENT (TLE) IS A RIGHT FOR CONSTRUCTION PURPOSES, AS DEFINED HEREIN, INCLUDING THE RIGHT TO OPERATE NECESSARY EQUIPMENT THEREON AND THE RIGHT OF INGRESS AND EGRESS, AS LONG 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 TLEs EXPIRE AT THE COMPLETION OF THE CONSTRUCTION PROJECT FOR WHICH THIS INSTRUMENT IS GIVEN.

A HIGHWAY EASEMENT (HE) IS AN EASEMENT FOR HIGHWAY PURPOSES, AS LONG AS SO USED, INCLUDING THE RIGHT TO PRESERVE, PROTECT, REMOVE OR PLANT THEREON ANY VEGETATION THAT THE HIGHWAY AUTHORITIES MAY DEEM NECESSARY OR DESIRABLE.

RIGHT OF WAY MONUMENTS ARE TYPE 2 MONUMENTS (TYPICALLY 1" X 24" IRON PIPE) AND WILL BE PLACED PRIOR TO THE COMPLETION OF THE PROJECT.

EXISTING RIGHT OF WAY WAS REESTABLISHED UNDER PROJECT: TRANSPORTATION PROJECT PLAT NO. 1517-07-00-4.10, DOCUMENT NO. 1590515, FILED IN FILE 1, TPP PG 200 AND TRANSPORTATION PROJECT PLAT NO. 1517-07-00-4.11, DOCUMENT NO. 1590516, FILED IN FILE 1, TPP PG 201.

EXISTING ACCESS CONTROL WAS ACQUIRED UNDER PROJECT: 4685-04-00, STH 441 IN WINNEBAGO COUNTY WAS DESIGNATED AS A FREEWAY UNDER SECTION 84.295 OF THE WISCONSIN STATE STATUTES BY THE WISCONSIN DEPARTMENT OF TRANSPORTATION ON JUNE 26, 1986.

THE REFERENCE LINE SHOWN ON THIS PLAT MAY NOT BE THE SAME AS THE REFERENCE LINE SHOWN ON THE CONSTRUCTION PLAN.

CONVENTIONAL ABBREVIATIONS

ACCESS POINT/ DRIVEWAY CONNECTION	AP	REFERENCE LINE	R/L
ACCESS RIGHTS	AR	RELEASE OF RIGHTS	ROR
ACRES	AC.	REMAINING	REM.
AND OTHERS	ET.AL.	RIGHT-OF-WAY	R/W
CENTERLINE	C/L	SECTION	SEC.
CERTIFIED SURVEY MAP	CSM	STATION	STA.
CORNER	COR.	TEMPORARY LIMITED EASEMENT	TLE
DOCUMENT	DOC.	VOLUME	VOL
EASEMENT	EASE.	**CURVE DATA**	
HIGHWAY EASEMENT	H.E.	LONG CHORD	LCH
LAND CONTRACT	LC	LONG CHORD BEARING	LCB
MONUMENT	MON.	RADIUS	R
PAGE	PG	DEGREE OF CURVE	D
PERMANENT LIMITED EASEMENT	PLE	CENTRAL ANGLE OR DELTA	DELTA
PROPERTY LINE	PL	LENGTH OF CURVE	L
RECORDED AS	(100')	TANGENT	TAN

CONVENTIONAL UTILITY SYMBOLS

WATER — W
GAS — G
COMMUNICATION — C
ELECTRIC OVERHEAD — OH
ELECTRIC UNDERGROUND — E
FIBER OPTIC — FO
SANITARY SEWER — SAN
STORM SEWER — SS
NON COMPENSABLE COMPENSABLE
POWER POLE
TELEPHONE POLE
TELEPHONE PEDESTAL
ELECTRIC TOWER

CONVENTIONAL SYMBOLS

FOUND IRON PIPE/PIN — ⌀ (3/4" IRON REBAR UNLESS NOTED)
R/W MONUMENT — ●(SET)
R/W STANDARD — ▲(SET)
SIGN — ISIGN
SECTION CORNER MONUMENT
SECTION CORNER SYMBOL
FEE (HATCH VARIES)
TEMPORARY LIMITED EASEMENT
PERMANENT LIMITED EASEMENT
R/W BOUNDARY POINT — PRW0001
PARCEL NUMBER — 102
UTILITY NUMBER — 92
SIGN NUMBER (OFF PREMISE) — 21-
BUILDING

PROPOSED R/W LINE
EXISTING H.E. LINE
PROPERTY LINE
LOT & TIE LINES
SLOPE INTERCEPTS
CORPORATE LIMITS
ACCESS RESTRICTED (BY PREVIOUS ACQUISITION/CONTROL)
ACCESS RESTRICTED (BY ACQUISITION)
NO ACCESS (BY STATUTORY AUTHORITY)
SECTION LINE
QUARTER LINE
SIXTEENTH LINE
EXISTING CENTERLINE
PROPOSED REFERENCE LINE
PARALLEL OFFSET

GRAPHIC SCALE. FEET
0 100 200

KAPUR & ASSOCIATES, INC.
CONSULTING ENGINEERS
MILWAUKEE, WISCONSIN
414.351.6668

I, GARY R. SPLINTER, PROFESSIONAL LAND SURVEYOR, HEREBY CERTIFY THAT IN FULL COMPLIANCE WITH THE PROVISIONS OF SECTION 84.095 OF THE WISCONSIN STATUTES AND UNDER THE DIRECTIONS OF THE WISCONSIN DEPARTMENT OF TRANSPORTATION, I HAVE SURVEYED TRANSPORTATION PROJECT PLAT 1517-07-21- 4.15 AND THAT SUCH PLAT CORRECTLY REPRESENTS ALL EXTERIOR BOUNDARIES OF THE SURVEYED LAND.

WISCONSIN GARY R. SPLINTER S-2239 OAK CREEK, WI LAND SURVEYOR

SIGNATURE _____ DATE 12/22/2016
GARY R. SPLINTER, P.L.S. S-2239

THIS PLAT AND RELOCATION ORDER ARE APPROVED FOR THE WISCONSIN DEPARTMENT OF TRANSPORTATION

SIGNATURE _____ DATE 12/23/16
PRINT CURT VAN EREM

RESERVED FOR REGISTER OF DEEDS
PROJECT NUMBER 1517-07-21-4.15
AMENDMENT NO: 1

ACCEPTED FOR RECORDING AND FILING IN THE OFFICE OF THE REGISTER OF DEEDS IN WINNEBAGO COUNTY, WISCONSIN AT 1:50 PM ON 12/29/2016 AS DOCUMENT # 1730929 AND FILED IN File 16 TPP# pg 284

DEPUTY
SIGNATURE OF REGISTER OF DEEDS

1730929

TRANSPORTATION PROJECT PLAT NO: 1517-07-21 - 4.15

USH 10 / STH 441, CTH CB - S. ONEIDA ST.

PART OF LOTS 5 AND 6, BLOCK 3 OF BUTTE DES MORTS HEIGHTS AND LANDS IN THE NW 1/4 OF THE NW 1/4, SECTION 11, TOWNSHIP 20 NORTH, RANGE 17 EAST, TOWN OF MENASHA, AND LOT 1, BLOCK 1, FRITSCH SUBDIVISION AND LANDS IN THE NE 1/4 OF THE NW 1/4 OF SECTION 11, TOWNSHIP 20 NORTH, RANGE 17 EAST, CITY OF MENASHA, ALL IN WINNEBAGO COUNTY, WISCONSIN.

RELOCATION ORDER USH 10/STH 441 WINNEBAGO 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 NAMED PROJECT.

TO EFFECT THIS CHANGE, PURSUANT TO AUTHORITY GRANTED UNDER SUBSECTIONS 84.02 (3), 84.09 AND 84.30, 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 NAMED 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 SUBSECTION 84.09 (1) OR (2), WISCONSIN STATUTES.

SCHEDULE OF LANDS & INTERESTS REQUIRED

PARCEL NUMBER	*OWNER	INTEREST REQUIRED	NEW R/W ACRES	P.L.E. ACRES	T.L.E. ACRES	H.E. ACRES
84	NICK & LISA A. BONGEAN	TLE	-	-	0.018	-
87	JOHN L. & VICKIE T. SAMP	FEE/TLE	0.068	-	0.117	-
88	WISCONSIN CENTRAL LTD.	HE	-	-	-	0.075
89	DICK & STEVE EARL	FEE	0.173	-	-	-
90	WINNEBAGO COUNTY	STRUCTURES	-	-	-	-
91	MIDWAY CORPORATION	FEE/TLE	0.061	-	0.052	-
92	3 RB LLC	FEE/TLE	0.004	-	0.005	-

*OWNER'S NAMES ARE SHOWN FOR REFERENCE PURPOSES ONLY, AND ARE SUBJECT TO CHANGE PRIOR TO TRANSFER OF LAND INTERESTS TO THE WISCONSIN DEPARTMENT OF TRANSPORTATION.

SCHEDULE OF UTILITIES & INTERESTS REQUIRED

UTILITY NUMBER	*OWNER	INTEREST REQUIRED
500	WE ENERGIES - ELECTRIC	RELEASE OF RIGHTS
503	AT&T WISCONSIN	RELEASE OF RIGHTS
505	TOWN OF MENASHA - SANITARY SEWER	RELEASE OF RIGHTS
605	TOWN OF MENASHA - SANITARY SEWER	UTILITY AGREEMENT
622	TOWN OF MENASHA - WATER	UTILITY AGREEMENT

STATION OFFSET TABLE

POINT	STATION	OFFSET		X	Y
DB929	237+48.23	0		818591.965	550319.747
DB930	240+52.43	0		818707.537	550601.130
DB956	243+85.16	701.08	R	819467.553	550598.294
DB962	239+00.47	373.93	L	818303.916	550602.636
DB963	225+39.20	0		817982.221	549280.358
DB964	226+45.50	140.77	R	818159.663	549279.589
PRW1238	242+72.04	633.43	R	819374.155	550556.643
PRW1239	242+08.32	505.73	R	819234.571	550553.190
PRW1240	241+84.46	488.00	R	819209.113	550537.861
TLE1295	229+20.37	203.47	L	818035.864	549700.871
TLE1296	226+70.93	141.06	L	817949.481	549469.051
TLE1297	227+97.40	142.80	L	818019.706	549569.174
HE1299	240+46.30	187.35	R	818878.509	550524.289
PRW1300	240+75.83	257.92	R	818955.013	550524.788
PRW1301	241+50.73	436.95	R	819149.075	550526.053
TLE1302	241+92.30	507.06	R	819229.722	550537.871
TLE1309	243+14.98	722.53	R	819467.363	550547.460
PRW1310	243+28.96	718.43	R	819467.401	550557.461
PRW1311	243+39.85	715.18	R	819467.430	550565.294
TLE1958	242+08.88	528.37	R	819255.724	550545.106
ERW7093	224+16.03	150.28	L	817789.290	549281.844
ERW7094	228+06.45	130.15	L	818035.101	549569.110
ERW7097	229+64.00	138.82	L	818112.894	549700.682
ERW7098	230+39.04	126.67	L	818162.022	549755.657
ERW7099	232+97.13	142.84	L	818273.282	549980.062
ERW7100	233+79.89	152.48	L	818302.021	550055.245
ERW7297	238+71.29	360.42	L	818305.327	550570.514

CURVE TABLE

CURVE	CH DISTANCE	CH BEARING	RADIUS	ARC LENGTH	PI COORDINATES
C1	1205.04'	N30°23'51"E	4293.00'	1209.03'	X 818294.839 Y 549596.336

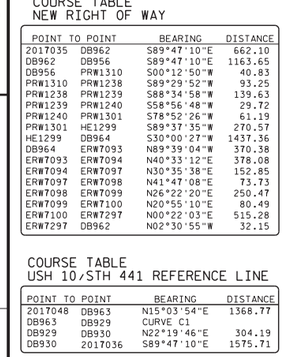
RL USH-10/STH-441
PI STA. 229+83.14
Y : 549596.336
X : 818294.839
DELTA = 20°38'55"
D = 1°20'05"
T = 782.05
L = 1547.14
R = 4293.00

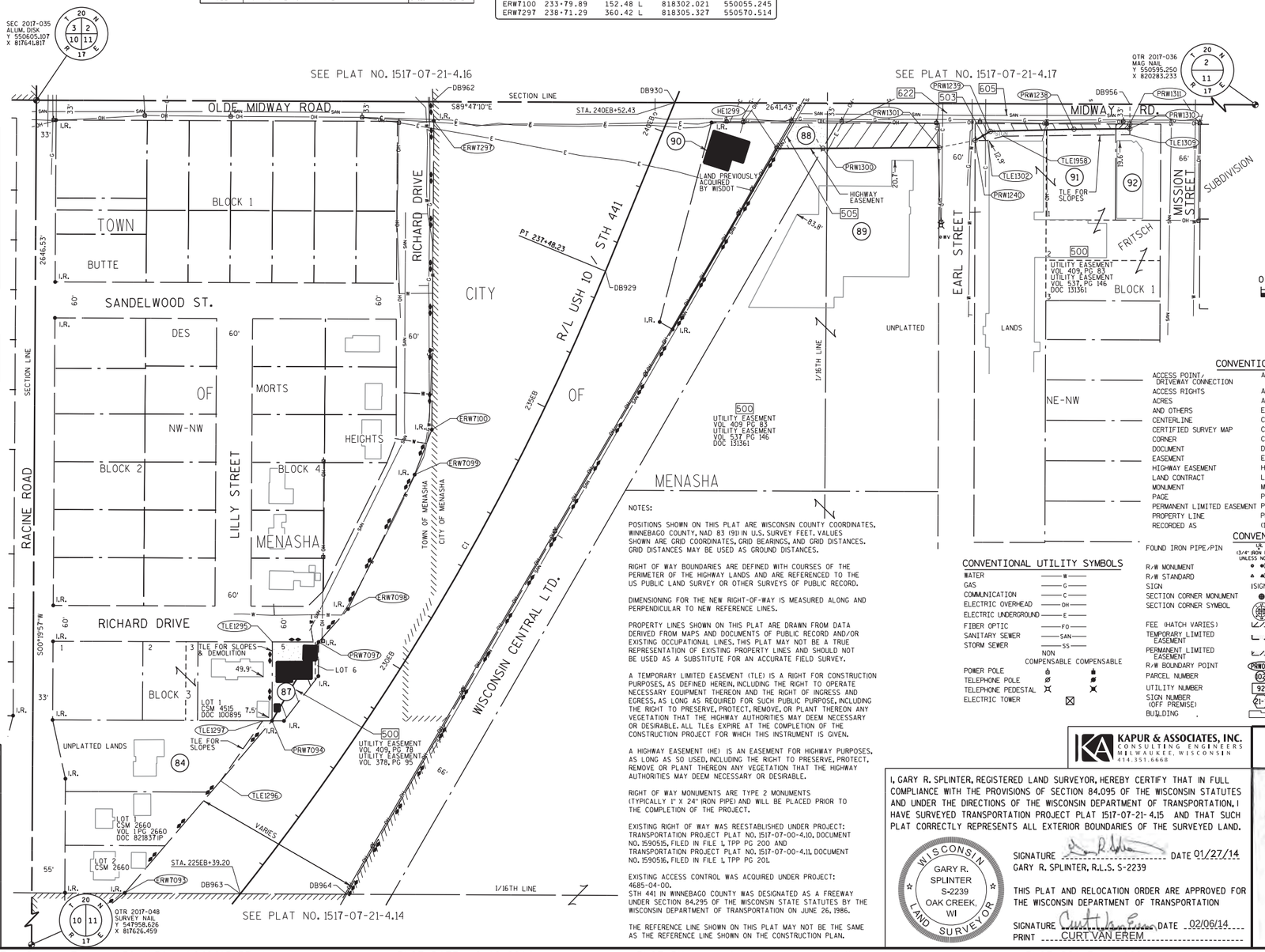
COURSE TABLE NEW RIGHT OF WAY

POINT TO POINT		BEARING	DISTANCE
2017035	DB962	S89°47'10"E	662.10
DB962	DB956	S89°47'10"E	1163.65
DB956	PRW1310	S00°12'50"W	40.83
PRW1310	PRW1238	S89°29'52"W	93.25
PRW1238	PRW1239	S88°34'58"W	139.63
PRW1239	PRW1240	S58°56'48"W	29.72
PRW1240	PRW1301	S78°52'26"W	61.19
PRW1301	HE1299	S89°37'35"W	270.57
HE1299	DB964	S30°00'27"W	1437.36
DB964	ERW7093	N89°39'04"W	370.38
ERW7093	ERW7094	N40°33'12"E	378.08
ERW7094	ERW7097	N30°35'38"E	152.85
ERW7097	ERW7098	N41°47'08"E	73.73
ERW7098	ERW7099	N26°22'20"E	250.47
ERW7099	ERW7100	N20°55'10"E	80.49
ERW7100	ERW7297	N00°22'03"E	515.28
ERW7297	DB962	N02°30'55"W	32.15

COURSE TABLE USH 10/STH 441 REFERENCE LINE

POINT TO POINT		BEARING	DISTANCE
2017048	DB963	N15°03'54"E	1368.77
DB963	DB929	CURVE C1	
DB929	DB930	N22°19'46"E	304.19
DB930	2017036	S89°47'10"E	1575.71





CONVENTIONAL ABBREVIATIONS

ACCESS POINT/ DRIVEWAY CONNECTION	AP	REFERENCE LINE	R/L
ACCESS RIGHTS	AR	RELEASE OF RIGHTS	ROR
ACRES	AC.	REMAINING	REM.
AND OTHERS	ET.AL.	RIGHT-OF-WAY	R/W
CENTERLINE	C/L	SECTION	SEC.
CERTIFIED SURVEY MAP	CSM	STATION	STA.
CORNER	COR.	TEMPORARY LIMITED EASEMENT	TLE
DOCUMENT	DOC.	VOLUME	VOL.
EASEMENT	EASE.	**CURVE DATA**	
HIGHWAY EASEMENT	H.E.	LONG CHORD	LCH
LAND CONTRACT	LC	LONG CHORD BEARING	LCB
MONUMENT	MON.	RADIUS	R
PAGE	PG	DEGREE OF CURVE	D
PERMANENT LIMITED EASEMENT	PLE	CENTRAL ANGLE OR DELTA	DELTA
PROPERTY LINE	PL	LENGTH OF CURVE	L
RECORDED AS	(100')	TANGENT	TAN

CONVENTIONAL SYMBOLS

FOUND IRON PIPE/PIN	⌀ (3/4" IRON REBAR UNLESS NOTED)	PROPOSED R/W LINE	
R/W MONUMENT	● (SET)	EXISTING H.E. LINE	
R/W STANDARD	▲ (SET)	PROPERTY LINE	
SIGN		LOT & TIE LINES	
SECTION CORNER MONUMENT		SLOPE INTERCEPTS	
SECTION CORNER SYMBOL		CORPORATE LIMITS	
FEE (HATCH VARIES)		ACCESS RESTRICTED (BY PREVIOUS ACQUISITION/CONTROL)	
TEMPORARY LIMITED EASEMENT		ACCESS RESTRICTED (BY ACQUISITION)	
PERMANENT LIMITED EASEMENT		NO ACCESS (BY STATUTORY AUTHORITY)	
R/W BOUNDARY POINT	PRW0001	SECTION LINE	
PARCEL NUMBER	102	QUARTER LINE	
UTILITY NUMBER	92	SIXTEENTH LINE	
SIGN NUMBER (OFF PREMISE)	21	EXISTING CENTERLINE	
BUILDING		PROPOSED REFERENCE LINE	
		PARALLEL OFFSET	

CONVENTIONAL UTILITY SYMBOLS

WATER	W	
GAS	G	
COMMUNICATION	C	
ELECTRIC OVERHEAD	OH	
ELECTRIC UNDERGROUND	E	
FIBER OPTIC	FO	
SANITARY SEWER	SAN	
STORM SEWER	SS	
	NON COMPENSABLE	COMPENSABLE
POWER POLE		
TELEPHONE POLE		
TELEPHONE PEDESTAL		
ELECTRIC TOWER		

NOTES:

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RIGHT OF WAY MONUMENTS ARE TYPE 2 MONUMENTS (TYPICALLY 1" X 24" IRON PIPE) AND WILL BE PLACED PRIOR TO THE COMPLETION OF THE PROJECT.

EXISTING RIGHT OF WAY WAS REESTABLISHED UNDER PROJECT: TRANSPORTATION PROJECT PLAT NO. 1517-07-00-4.10, DOCUMENT NO. 1590515, FILED IN FILE 1, TPP PG 200 AND TRANSPORTATION PROJECT PLAT NO. 1517-07-00-4.11, DOCUMENT NO. 1590516, FILED IN FILE 1, TPP PG 201.

EXISTING ACCESS CONTROL WAS ACQUIRED UNDER PROJECT: 4685-04-00, STH 441 IN WINNEBAGO COUNTY WAS DESIGNATED AS A FREEWAY UNDER SECTION 84.295 OF THE WISCONSIN STATE STATUTES BY THE WISCONSIN DEPARTMENT OF TRANSPORTATION ON JUNE 26, 1986.

THE REFERENCE LINE SHOWN ON THIS PLAT MAY NOT BE THE SAME AS THE REFERENCE LINE SHOWN ON THE CONSTRUCTION PLAN.

KAPUR & ASSOCIATES, INC.
CONSULTING ENGINEERS
MILWAUKEE, WISCONSIN
414.351.6668

I, GARY R. SPLINTER, REGISTERED LAND SURVEYOR, HEREBY CERTIFY THAT IN FULL COMPLIANCE WITH THE PROVISIONS OF SECTION 84.095 OF THE WISCONSIN STATUTES AND UNDER THE DIRECTIONS OF THE WISCONSIN DEPARTMENT OF TRANSPORTATION, I HAVE SURVEYED TRANSPORTATION PROJECT PLAT 1517-07-21- 4.15 AND THAT SUCH PLAT CORRECTLY REPRESENTS ALL EXTERIOR BOUNDARIES OF THE SURVEYED LAND.

WISCONSIN GARY R. SPLINTER S-2239 OAK CREEK, WI LAND SURVEYOR

SIGNATURE _____ DATE 01/27/14
GARY R. SPLINTER, R.L.S. S-2239

THIS PLAT AND RELOCATION ORDER ARE APPROVED FOR THE WISCONSIN DEPARTMENT OF TRANSPORTATION

SIGNATURE _____ DATE 02/06/14
PRINT CURT VAN EREM

RESERVED FOR REGISTER OF DEEDS
PROJECT NUMBER 1517-07-21-4.15
AMENDMENT NO:

ACCEPTED FOR RECORDING AND FILING IN THE OFFICE OF THE REGISTER OF DEEDS IN WINNEBAGO COUNTY, WISCONSIN AT 10:28 AM ON 2/25/2014 AS DOCUMENT # 1658571 AND FILED IN File 1 of TPP 237

SIGNATURE OF REGISTER OF DEEDS

1658571

FILE NAME : S:\DOT\DOT_NE\120012-Tri County Freeway\Plat\Plats\040415_RP.dgn
PLOT DATE : 2/18/2014
PLOT BY : g_splinter
PLOT NAME :
PLOT SCALE : 1:100
APPRAISAL PLAT DATE :

TRANSPORTATION PROJECT PLAT NO: 1517-07-21 - 4.17 AMENDMENT NO. 3

USH 10 / STH 441, CTH CB - S. ONEIDA ST.

AMENDS UTILITY NUMBER 522 AND ADDS UTILITY NUMBERS 518, 618, AND 619 TO TPP 1517-07-21- 4.17 RECORDED AS DOCUMENT 1658573.

PART OF THE SE 1/4 OF THE SW 1/4, THE SW 1/4 OF THE SW 1/4 AND THE SW 1/4 OF THE SE 1/4 OF SECTION 2, TOWNSHIP 20 NORTH, RANGE 17 EAST, CITY OF MENASHA, WINNEBAGO COUNTY, WISCONSIN.

RELOCATION ORDER USH 10/STH 441 WINNEBAGO 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 NAMED PROJECT.

TO EFFECT THIS CHANGE, PURSUANT TO AUTHORITY GRANTED UNDER SUBSECTIONS 84.02 (3), 84.09 AND 84.30, 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 NAMED PROJECT.
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NOTES:

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DIMENSIONING FOR THE NEW RIGHT-OF-WAY IS MEASURED ALONG AND PERPENDICULAR TO NEW REFERENCE LINES.

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 AND SHOULD NOT BE USED AS A SUBSTITUTE FOR AN ACCURATE FIELD SURVEY.

A TEMPORARY LIMITED EASEMENT (TLE) IS A RIGHT FOR CONSTRUCTION PURPOSES, AS DEFINED HEREIN, INCLUDING THE RIGHT TO OPERATE NECESSARY EQUIPMENT THEREON AND THE RIGHT OF INGRESS AND EGRESS, AS LONG 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 TLEs EXPIRE AT THE COMPLETION OF THE CONSTRUCTION PROJECT FOR WHICH THIS INSTRUMENT IS GIVEN.

A HIGHWAY EASEMENT (HE) IS AN EASEMENT FOR HIGHWAY PURPOSES, AS LONG AS SO USED, INCLUDING THE RIGHT TO PRESERVE, PROTECT, REMOVE OR PLANT THEREON ANY VEGETATION THAT THE HIGHWAY AUTHORITIES MAY DEEM NECESSARY OR DESIRABLE.

RIGHT OF WAY MONUMENTS ARE TYPE 2 MONUMENTS (TYPICALLY 1" X 24" IRON PIPE) AND WILL BE PLACED PRIOR TO THE COMPLETION OF THE PROJECT.

EXISTING RIGHT OF WAY WAS REESTABLISHED UNDER PROJECT: TRANSPORTATION PROJECT PLAT NO. 1517-07-00-4.11, DOCUMENT NO. 1590516, FILED IN FILE 1, TPP PG 201.

EXISTING ACCESS CONTROL WAS ACQUIRED UNDER PROJECT 4685-04-00: STH 441 IN WINNEBAGO COUNTY WAS DESIGNATED AS A FREEWAY UNDER SECTION 84.295 OF THE WISCONSIN STATE STATUTES BY THE WISCONSIN DEPARTMENT OF TRANSPORTATION ON JUNE 26, 1986.

THE REFERENCE LINE SHOWN ON THIS PLAT MAY NOT BE THE SAME AS THE REFERENCE LINE SHOWN ON THE CONSTRUCTION PLAN.

COURSE TABLE
USH 10/STH 441 REFERENCE LINE

POINT TO POINT		BEARING	DISTANCE
2017036	DB930	N89°47'10"W	1575.71
DB930	DB954	N22°19'46"E	195.07
DB954	DB955	CURVE C1	
DB955	2017036	S00°08'55"E	1429.26

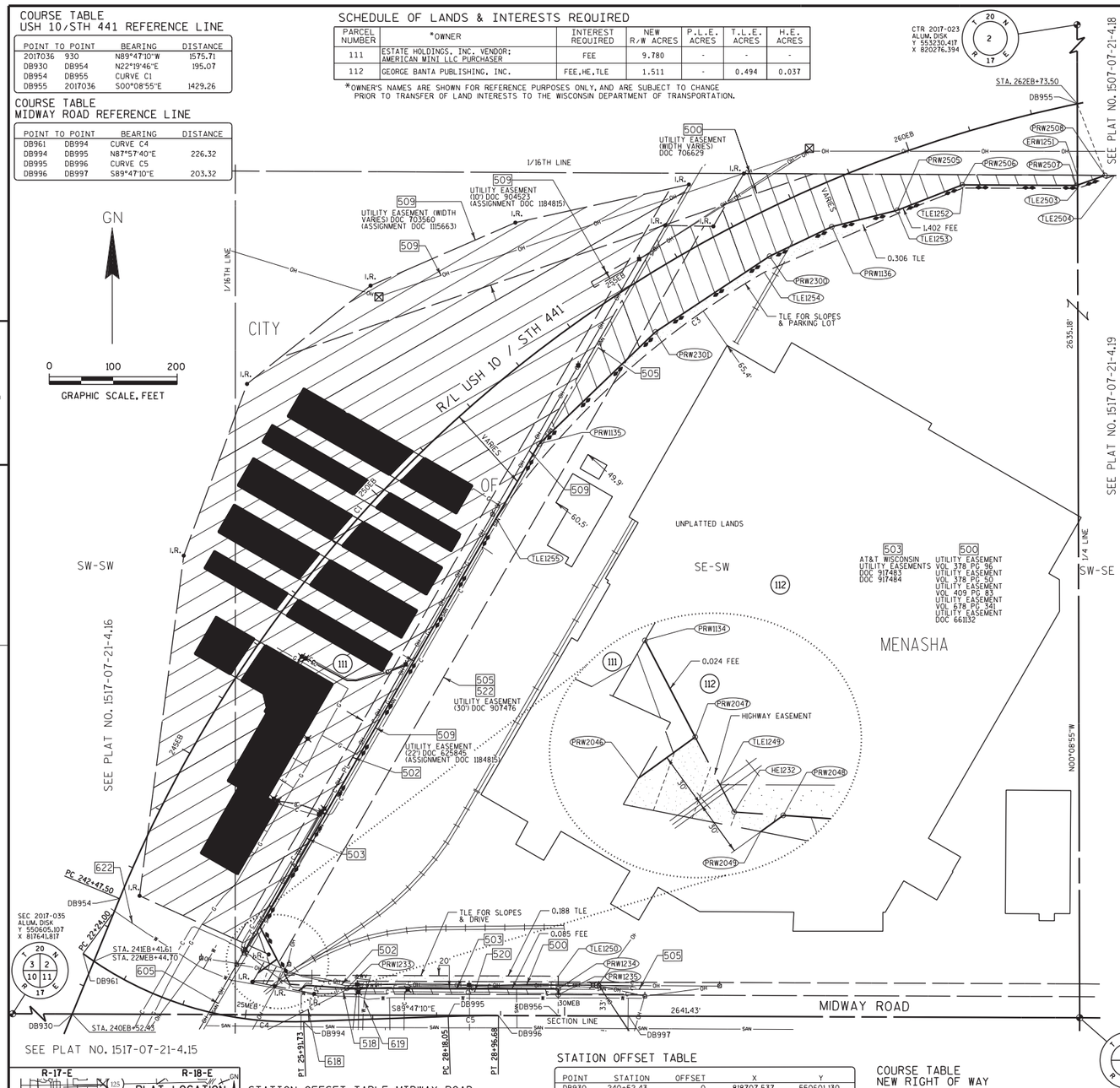
COURSE TABLE
MIDWAY ROAD REFERENCE LINE

POINT TO POINT		BEARING	DISTANCE
DB961	DB994	CURVE C4	
DB994	DB995	N87°57'40"E	226.32
DB995	DB996	CURVE C5	
DB996	DB997	S89°47'10"E	203.32

SCHEDULE OF LANDS & INTERESTS REQUIRED

PARCEL NUMBER	*OWNER	INTEREST REQUIRED	NEW R/W ACRES	P.L.E. ACRES	T.L.E. ACRES	H.E. ACRES
111	ESTATE HOLDINGS, INC. VENDOR; AMERICAN MINI LLC PURCHASER	FEE	9.780	-	-	-
112	GEORGE BANTA PUBLISHING, INC.	FEE,HE,TLE	1.511	-	0.494	0.037

*OWNER'S NAMES ARE SHOWN FOR REFERENCE PURPOSES ONLY, AND ARE SUBJECT TO CHANGE PRIOR TO TRANSFER OF LAND INTERESTS TO THE WISCONSIN DEPARTMENT OF TRANSPORTATION.



CONVENTIONAL ABBREVIATIONS

ACCESS POINT, DRIVEWAY CONNECTION	AP	REFERENCE LINE	R/L
ACCESS RIGHTS	AR	RELEASE OF RIGHTS	ROR
ACRES	AC.	REMAINING	REM.
AND OTHERS	ET.AL.	RIGHT-OF-WAY	R/W
CENTERLINE	C/L	SECTION	SEC.
CERTIFIED SURVEY MAP	CSM	STATION	STA.
CORNER	COR.	TEMPORARY LIMITED EASEMENT	TLE
DOCUMENT	DOC.	VOLUME	VOL
EASEMENT	EASE.	**CURVE DATA**	
HIGHWAY EASEMENT	H.E.	LONG CHORD	LCH
LAND CONTRACT	LC	LONG CHORD BEARING	LCB
MONUMENT	MON.	RADIUS	R
PAGE	PG	DEGREE OF CURVE	D
PERMANENT LIMITED EASEMENT	PLE	CENTRAL ANGLE OR DELTA	DELTA
PROPERTY LINE	PL	LENGTH OF CURVE	L
RECORDED AS	(100')	TANGENT	TAN

CONVENTIONAL SYMBOLS

FOUND IRON PIPE/PIN	⅝ (5/4" IRON REBAR UNLESS NOTED)	PROPOSED R/W LINE	
R/W MONUMENT	● =(SET)	EXISTING H.E. LINE	
R/W STANDARD	▲ =(SET)	PROPERTY LINE	
SIGN		LOT & TIE LINES	
SECTION CORNER MONUMENT	●	SLOPE INTERCEPTS	
SECTION CORNER SYMBOL		CORPORATE LIMITS	
		ACCESS RESTRICTED (BY PREVIOUS ACQUISITION/CONTROL)	
FEE (HATCH VARIES)		ACCESS RESTRICTED (BY ACQUISITION)	
TEMPORARY LIMITED EASEMENT		NO ACCESS (BY STATUTORY AUTHORITY)	
PERMANENT LIMITED EASEMENT		SECTION LINE	
R/W BOUNDARY POINT	PRW000	QUARTER LINE	
PARCEL NUMBER	103	SIXTEENTH LINE	
UTILITY NUMBER	92	EXISTING CENTERLINE	
SIGN NUMBER (OFF PREMISE)	21-Y	PROPOSED REFERENCE LINE	
BUILDING		PARALLEL OFFSET	

CONVENTIONAL UTILITY SYMBOLS

WATER	W
GAS	G
COMMUNICATION	C
ELECTRIC OVERHEAD	OH
ELECTRIC UNDERGROUND	E
FIBER OPTIC	FO
SANITARY SEWER	SAN
STORM SEWER	SS

NON COMPENSABLE / COMPENSABLE

POWER POLE	○	●
TELEPHONE POLE	⌀	⌀
TELEPHONE PEDESTAL	⊠	⊠
ELECTRIC TOWER	⊠	

RL USH-10/STH-441	RL MIDWAY ROAD	RL MIDWAY ROAD
PI STA. 256+56.08	PI STA. 24+15.03	PI STA. 28+57.37
Y : 552084.530	Y : 550582.540	Y : 550598.789
X : 819316.813	X : 818878.528	X : 819334.913
DELTA = 68°21'56"	DELTA = 38°18'27"	DELTA = 2°15'10"
D = 2°45'45"	D = 10°25'03"	D = 2°51'53"
T = 1408.58	T = 191.03	T = 39.32
L = 2474.71	L = 367.72	L = 78.64
R = 2074.00	R = 550.00	R = 2000.00

SCHEDULE OF UTILITIES & INTERESTS REQUIRED

UTILITY NUMBER	*OWNER	INTEREST REQUIRED
500	WE ENERGIES - ELECTRIC	RELEASE OF RIGHTS
502	TIME WARNER	RELEASE OF RIGHTS
503	AT&T WISCONSIN	RELEASE OF RIGHTS
505	TOWN OF MENASHA - SANITARY SEWER	RELEASE OF RIGHTS
509	AMERICAN TRANSMISSION COMPANY	RELEASE OF RIGHTS
518	MENASHA UTILITIES - ELECTRIC	RELEASE OF RIGHTS
520	TDS METROCOM	RELEASE OF RIGHTS
522	TOWN OF MENASHA - WATER	RELEASE OF RIGHTS
605	TOWN OF MENASHA - SANITARY SEWER	UTILITY AGREEMENT
618	MENASHA UTILITIES - ELECTRIC	UTILITY AGREEMENT
619	MENASHA UTILITIES - WATER	UTILITY AGREEMENT
622	TOWN OF MENASHA - WATER	UTILITY AGREEMENT

CURVE TABLE

CURVE	CH DISTANCE	CH BEARING	RADIUS	ARC LENGTH	PI COORDINATES	
C1	1946.40'	N50°18'52"E	2074.00'	2026.00'	X 819200.359	Y 551801.001
C3	568.93'	S47°27'57"W	1306.25'	573.53'	X 819537.282	Y 551615.417
C4	360.91'	S72°53'07"E	550.00'	367.72'	X 818878.528	Y 550582.540
C5	78.63'	N89°05'15"E	2000.00'	78.64'	X 819334.913	Y 550598.789

STATION OFFSET TABLE

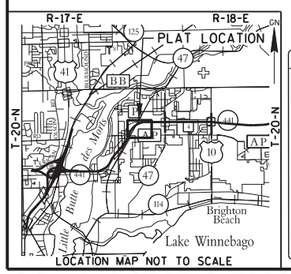
POINT	STATION	OFFSET		X	Y
DB930	240+52.43	0		818707.537	550601.130
DB954	242+47.50	0		818781.651	550781.575
DB955	262+73.50	0		820279.524	552024.500
PRW1134	242+94.89	219.70	R	819001.419	550737.114
PRW1135	252+45.29	114.26	R	819437.665	551492.511
PRW1136	258+41.51	66.94	R	819895.488	551832.300
ERW1251	262+49.89	109.28	R	820279.814	551912.833
TLE1252	262+60.78	82.48	R	820100.536	551892.718
TLE1253	259+49.80	86.82	R	819999.555	551853.194
TLE1254	257+10.58	85.98	R	819789.807	551760.953
TLE1255	251+08.79	155.75	R	819370.575	551376.339
PRW2300	257+30.36	67.36	R	819798.339	551786.185
PRW2301	255+08.56	81.45	R	819619.789	551667.850
TLE2503	262+44.43	129.64	R	820279.165	551891.836
TLE2504	263+09.67	121.24	R	820337.520	551912.393
PRW2505	259+50.07	81.81	R	819998.031	551857.966
PRW2506	260+63.42	77.42	R	820099.604	551897.722
PRW2507	262+44.70	124.58	R	820278.322	551896.840
PRW2508	262+94.34	118.34	R	820322.788	551912.505

STATION OFFSET TABLE MIDWAY ROAD

POINT	STATION	OFFSET		X	Y
DB956	29+90.00	0		819467.553	550598.294
DB961	22+24.00	0		818724.508	550695.549
DB994	25+91.73	0		819069.439	550589.337
DB995	28+18.05	0		819295.614	550597.390
DB996	28+96.68	0		819374.237	550598.642
DB997	31+00.00	0		819577.552	550597.883
HE1232	25+70.02	58.68	L	819047.968	550647.674
PRW1233	26+61.13	49.75	L	819137.024	550641.528
PRW1234	29+90.00	42.00	L	819467.710	550640.294
PRW1235	29+90.00	33.00	L	819467.676	550631.294
TLE1249	25+61.43	72.81	L	819040.570	550661.888
TLE1250	29+90.00	62.00	L	819467.784	550660.293
PRW2046	25+12.25	73.53	L	818998.077	550665.341
PRW2047	25+45.13	97.22	L	819027.630	550686.752
PRW2048	25+97.82	56.39	L	819073.525	550645.910
PRW2049	25+85.27	48.31	L	819061.834	550637.441

COURSE TABLE
NEW RIGHT OF WAY

POINT TO POINT		BEARING	DISTANCE
2017036	DB956	N89°47'10"W	815.69
DB956	DB930	N89°47'10"W	760.02
DB930	DB954	N22°19'46"E	195.07
DB954	DB955	CURVE C1	
DB955	PRW2508	S21°07'18"E	120.06
PRW2508	PRW2507	S70°35'37"W	47.14
PRW2507	PRW2506	N89°43'02"W	178.72
PRW2506	PRW2505	S68°37'28"W	109.08
PRW2505	PRW1136	S75°56'51"W	105.71
PRW1136	PRW2300	S64°36'26"W	107.54
PRW2300	PRW2301	S56°27'55"W	214.20
PRW2301	PRW1135	S46°05'15"W	252.81
PRW1135	PRW1134	S30°00'24"W	872.32
PRW1134	HE1232	S27°29'40"E	100.83
HE1232	PRW1233	S86°03'06"E	89.27
PRW1233	PRW1234	S89°47'10"E	330.69
PRW1234	DB956	S 0°12'50" W	42.00



KAPUR & ASSOCIATES, INC.
CONSULTING ENGINEERS
MILWAUKEE, WISCONSIN
414.351.6668

I, GARY R. SPLINTER, PROFESSIONAL LAND SURVEYOR, HEREBY CERTIFY THAT IN FULL COMPLIANCE WITH THE PROVISIONS OF SECTION 84.095 OF THE WISCONSIN STATUTES AND UNDER THE DIRECTIONS OF THE WISCONSIN DEPARTMENT OF TRANSPORTATION, I HAVE SURVEYED TRANSPORTATION PROJECT PLAT 1517-07-21- 4.17 AND THAT SUCH PLAT CORRECTLY REPRESENTS ALL EXTERIOR BOUNDARIES OF THE SURVEYED LAND.

WISCONSIN GARY R. SPLINTER S-2239 OAK CREEK, WI LAND SURVEYOR

SIGNATURE _____ DATE 12/22/2016
GARY R. SPLINTER, P.L.S. S-2239

THIS PLAT AND RELOCATION ORDER ARE APPROVED FOR THE WISCONSIN DEPARTMENT OF TRANSPORTATION

SIGNATURE _____ DATE 12/23/16
PRINT CURT VAN EREM

RESERVED FOR REGISTER OF DEEDS
PROJECT NUMBER 1517-07-21-4.17
AMENDMENT NO: 3

ACCEPTED FOR RECORDING AND FILING IN THE OFFICE OF THE REGISTER OF DEEDS IN WINNEBAGO COUNTY, WISCONSIN AT 1:50 PM ON 12/29/2016 AS DOCUMENT # 1730930 AND FILED IN File 1 of TPP's pg. 285

SIGNATURE OF REGISTER OF DEEDS
DEPUTY

1730930

FILE NAME : S:\DOT\DOT_NE\120012-Tri County Freeway\Plat\Plats\040417_RP.dgn
PLOT DATE : 12/22/2016
PLOT BY : gsplinter
PLOT NAME :
PLOT SCALE : 1:100
APPRAISAL PLAT DATE :

TRANSPORTATION PROJECT PLAT NO: 1517-07-21 - 4.17 AMENDMENT NO. 2

USH 10 / STH 441, CTH CB - S. ONEIDA ST.

AMENDS PARCEL 112 OF TPP 1517-07-21- 4.17 AMENDMENT NO. 1, RECORDED AS DOCUMENT 1704427.

PART OF THE SE 1/4 OF THE SW 1/4, THE SW 1/4 OF THE SW 1/4 AND THE SW 1/4 OF THE SE 1/4 OF SECTION 2, TOWNSHIP 20 NORTH, RANGE 17 EAST, CITY OF MENASHA, WINNEBAGO COUNTY, WISCONSIN.

RELOCATION ORDER USH 10/STH 441 WINNEBAGO 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 NAMED PROJECT.

TO EFFECT THIS CHANGE, PURSUANT TO AUTHORITY GRANTED UNDER SUBSECTIONS 84.02 (3), 84.09 AND 84.30, 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 NAMED 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 SUBSECTION 84.09 (1) OR (2), WISCONSIN STATUTES.

NOTES:

POSITIONS SHOWN ON THIS PLAT ARE WISCONSIN COUNTY COORDINATES, WINNEBAGO COUNTY, NAD 83 (91) IN U.S. SURVEY FEET. VALUES SHOWN ARE GRID COORDINATES, GRID BEARINGS, AND GRID DISTANCES. GRID DISTANCES MAY BE USED AS GROUND DISTANCES.

RIGHT OF WAY BOUNDARIES ARE DEFINED WITH COURSES OF THE PERIMETER OF THE HIGHWAY LANDS AND ARE REFERENCED TO THE US PUBLIC LAND SURVEY OR OTHER SURVEYS OF PUBLIC RECORD.

DIMENSIONING FOR THE NEW RIGHT-OF-WAY IS MEASURED ALONG AND PERPENDICULAR TO NEW REFERENCE LINES.

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 AND SHOULD NOT BE USED AS A SUBSTITUTE FOR AN ACCURATE FIELD SURVEY.

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COURSE TABLE
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POINT	TO POINT	BEARING	DISTANCE
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SCHEDULE OF LANDS & INTERESTS REQUIRED

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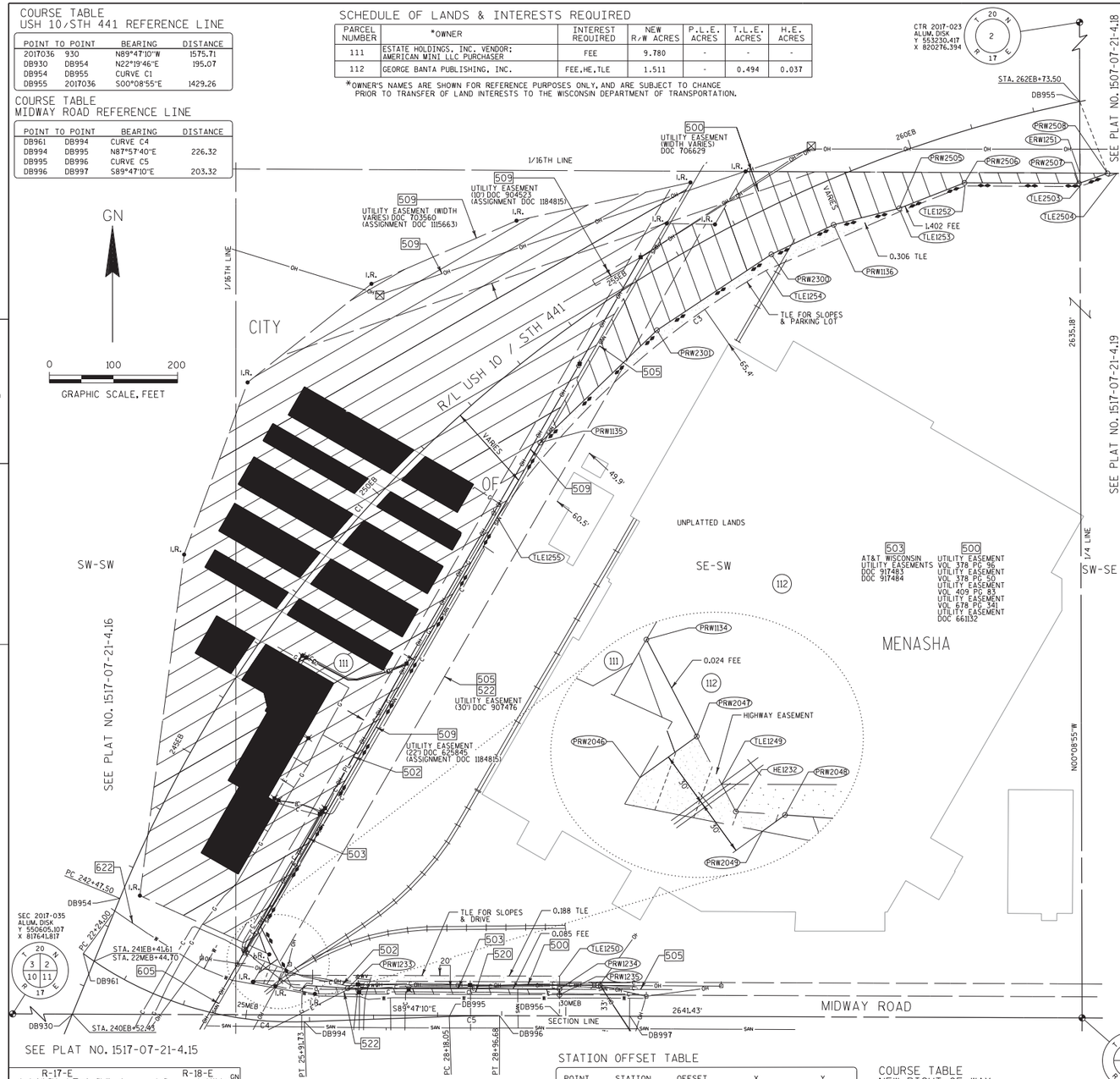

0 100 200
GRAPHIC SCALE, FEET

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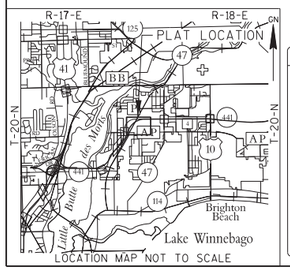

STATION OFFSET TABLE MIDWAY ROAD

POINT	STATION	OFFSET		X	Y
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DB961	22+24.00	0		818724.508	550695.549
DB994	25+91.73	0		819069.439	550589.337
DB995	28+18.05	0		819295.614	550597.390
DB996	28+96.68	0		819374.237	550598.642
DB997	31+00.00	0		819577.552	550597.883
HE1232	25+70.02	58.68	L	819047.968	550647.674
PRW1233	25+61.13	49.75	L	819137.024	550641.528
PRW1234	29+90.00	42.00	L	819467.710	550640.294
PRW1235	29+90.00	33.00	L	819467.676	550631.294
TLE1249	25+61.43	72.81	L	819040.570	550661.888
TLE1250	29+90.00	62.00	L	819467.784	550660.293
PRW2046	25+12.25	73.53	L	818998.077	550665.341
PRW2047	25+45.13	97.22	L	819027.630	550686.752
PRW2048	25+97.82	56.39	L	819073.525	550645.910
PRW2049	25+85.27	48.31	L	819061.834	550637.441

STATION OFFSET TABLE

POINT	STATION	OFFSET		X	Y
DB930	240+52.43	0		818707.537	550601.130
DB954	242+47.50	0		818781.651	550781.575
DB955	262+73.50	0		820279.524	552024.500
PRW1134	242+94.89	219.70	R	819001.419	550737.114
PRW1135	252+45.29	114.26	R	819437.665	551492.511
PRW1136	258+41.51	66.94	R	819895.488	551832.300
ERW1251	262+49.89	109.28	R	820279.814	551912.833
TLE1252	262+60.78	82.48	R	820100.536	551892.718
TLE1253	259+49.80	86.82	R	819999.555	551853.194
TLE1254	257+10.58	85.98	R	819789.807	551760.953
TLE1255	251+08.79	155.75	R	819370.575	551376.339
PRW2300	257+30.36	67.36	R	819798.339	551786.185
PRW2301	255+08.56	81.45	R	819619.789	551667.850
TLE2503	262+44.43	129.64	R	820279.165	551891.836
TLE2504	263+09.67	121.24	R	820337.520	551912.393
PRW2505	259+50.07	81.81	R	819998.031	551857.966
PRW2506	260+63.42	77.42	R	820099.604	551897.722
PRW2507	262+44.70	124.58	R	820278.322	551896.840
PRW2508	262+94.34	118.34	R	820322.788	551912.505

COURSE TABLE
NEW RIGHT OF WAY

POINT	TO POINT	BEARING	DISTANCE
2017036	DB956	N89°47'10"W	815.69
DB956	DB930	N89°47'10"W	760.02
DB930	DB954	N22°19'46"E	195.07
DB954	DB955	CURVE C1	
DB955	PRW2508	S21°07'18"E	120.06
PRW2508	PRW2507	S70°35'37"W	47.14
PRW2507	PRW2506	N89°43'02"W	178.72
PRW2506	PRW2505	S68°37'28"W	109.08
PRW2505	PRW1136	S75°56'51"W	105.71
PRW1136	PRW2300	S64°36'26"W	107.54
PRW2300	PRW2301	S56°27'55"W	214.20
PRW2301	PRW1135	S46°05'15"W	252.81
PRW1135	PRW1134	S30°00'24"W	872.32
PRW1134	HE1232	S27°29'40"E	100.83
HE1232	PRW1233	S86°03'06"E	89.27
PRW1233	PRW1234	S89°47'10"E	330.69
PRW1234	DB956	S 0°12'50" W	42.00

KAPUR & ASSOCIATES, INC.
CONSULTING ENGINEERS
MILWAUKEE, WISCONSIN
414.351.6668

I, GARY R. SPLINTER, PROFESSIONAL LAND SURVEYOR, HEREBY CERTIFY THAT IN FULL COMPLIANCE WITH THE PROVISIONS OF SECTION 84.095 OF THE WISCONSIN STATUTES AND UNDER THE DIRECTIONS OF THE WISCONSIN DEPARTMENT OF TRANSPORTATION, I HAVE SURVEYED TRANSPORTATION PROJECT PLAT 1517-07-21- 4.17 AND THAT SUCH PLAT CORRECTLY REPRESENTS ALL EXTERIOR BOUNDARIES OF THE SURVEYED LAND.

WISCONSIN GARY R. SPLINTER S-2239 OAK CREEK, WI LAND SURVEYOR

SIGNATURE _____ DATE 08/30/2016
GARY R. SPLINTER, P.L.S. S-2239

THIS PLAT AND RELOCATION ORDER ARE APPROVED FOR THE WISCONSIN DEPARTMENT OF TRANSPORTATION

SIGNATURE _____ DATE 09/08/2016
PRINT CURT VAN EREM

RESERVED FOR REGISTER OF DEEDS
PROJECT NUMBER 1517-07-21-4.17
AMENDMENT NO: 2

ACCEPTED FOR RECORDING AND FILING IN THE OFFICE OF THE REGISTER OF DEEDS IN WINNEBAGO COUNTY, WISCONSIN AT 3:58 ON 9/19/2016 AS DOCUMENT # 1723310 AND FILED IN File 1 of TPPs Pg 282

SIGNATURE OF REGISTER OF DEEDS Deputy

FILE NAME : S:\DOT\DOT_NE\120012-Tri County Freeway\Plat\Plats\040417_RP.dgn
APPRAISAL PLAT DATE :
PLOT DATE : 8/30/2016
PLOT BY : gsplinter
PLOT NAME :
PLOT SCALE : 1:100

TRANSPORTATION PROJECT PLAT NO: 1517-07-21 - 4.17
AMENDMENT NO. 1

USH 10 / STH 441, CTH CB - S. ONEIDA ST.

AMENDS PARCEL 112 OF TPP 1517-07-21- 4.17, RECORDED AS DOCUMENT 1658573.

PART OF THE SE 1/4 OF THE SW 1/4 AND THE SW 1/4 OF THE SW 1/4 OF SECTION 2, TOWNSHIP 20 NORTH, RANGE 17 EAST, CITY OF MENASHA, WINNEBAGO COUNTY, WISCONSIN.

RELOCATION ORDER USH 10/STH 441 WINNEBAGO 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 NAMED PROJECT.

TO EFFECT THIS CHANGE, PURSUANT TO AUTHORITY GRANTED UNDER SUBSECTIONS 84.02 (3), 84.09 AND 84.30, 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 NAMED 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 SUBSECTION 84.09 (1) OR (2), WISCONSIN STATUTES.

NOTES:

POSITIONS SHOWN ON THIS PLAT ARE WISCONSIN COUNTY COORDINATES, WINNEBAGO COUNTY, NAD 83 (91) IN U.S. SURVEY FEET. VALUES SHOWN ARE GRID COORDINATES, GRID BEARINGS, AND GRID DISTANCES. GRID DISTANCES MAY BE USED AS GROUND DISTANCES.

RIGHT OF WAY BOUNDARIES ARE DEFINED WITH COURSES OF THE PERIMETER OF THE HIGHWAY LANDS AND ARE REFERENCED TO THE US PUBLIC LAND SURVEY OR OTHER SURVEYS OF PUBLIC RECORD.

DIMENSIONING FOR THE NEW RIGHT-OF-WAY IS MEASURED ALONG AND PERPENDICULAR TO NEW REFERENCE LINES.

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 AND SHOULD NOT BE USED AS A SUBSTITUTE FOR AN ACCURATE FIELD SURVEY.

A TEMPORARY LIMITED EASEMENT (TLE) IS A RIGHT FOR CONSTRUCTION PURPOSES, AS DEFINED HEREIN, INCLUDING THE RIGHT TO OPERATE NECESSARY EQUIPMENT THEREON AND THE RIGHT OF INGRESS AND EGRESS, AS LONG 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 TLEs EXPIRE AT THE COMPLETION OF THE CONSTRUCTION PROJECT FOR WHICH THIS INSTRUMENT IS GIVEN.

A HIGHWAY EASEMENT (HE) IS AN EASEMENT FOR HIGHWAY PURPOSES, AS LONG AS SO USED, INCLUDING THE RIGHT TO PRESERVE, PROTECT, REMOVE OR PLANT THEREON ANY VEGETATION THAT THE HIGHWAY AUTHORITIES MAY DEEM NECESSARY OR DESIRABLE.

RIGHT OF WAY MONUMENTS ARE TYPE 2 MONUMENTS (TYPICALLY 1" X 24" IRON PIPE) AND WILL BE PLACED PRIOR TO THE COMPLETION OF THE PROJECT.

EXISTING RIGHT OF WAY WAS REESTABLISHED UNDER PROJECT: TRANSPORTATION PROJECT PLAT NO. 1517-07-00-4.11, DOCUMENT NO. 1590516, FILED IN FILE 1, TPP PG 201.

EXISTING ACCESS CONTROL WAS ACQUIRED UNDER PROJECT 4685-04-00: STH 441 IN WINNEBAGO COUNTY WAS DESIGNATED AS A FREEWAY UNDER SECTION 84.295 OF THE WISCONSIN STATE STATUTES BY THE WISCONSIN DEPARTMENT OF TRANSPORTATION ON JUNE 26, 1986.

THE REFERENCE LINE SHOWN ON THIS PLAT MAY NOT BE THE SAME AS THE REFERENCE LINE SHOWN ON THE CONSTRUCTION PLAN.

COURSE TABLE
USH 10/STH 441 REFERENCE LINE

POINT TO POINT		BEARING	DISTANCE
2017036	930	N89°47'10"W	1575.71
DB930	DB954	N22°19'46"E	195.07
DB954	DB955	CURVE C1	
DB955	2017036	S00°08'55"E	1429.26

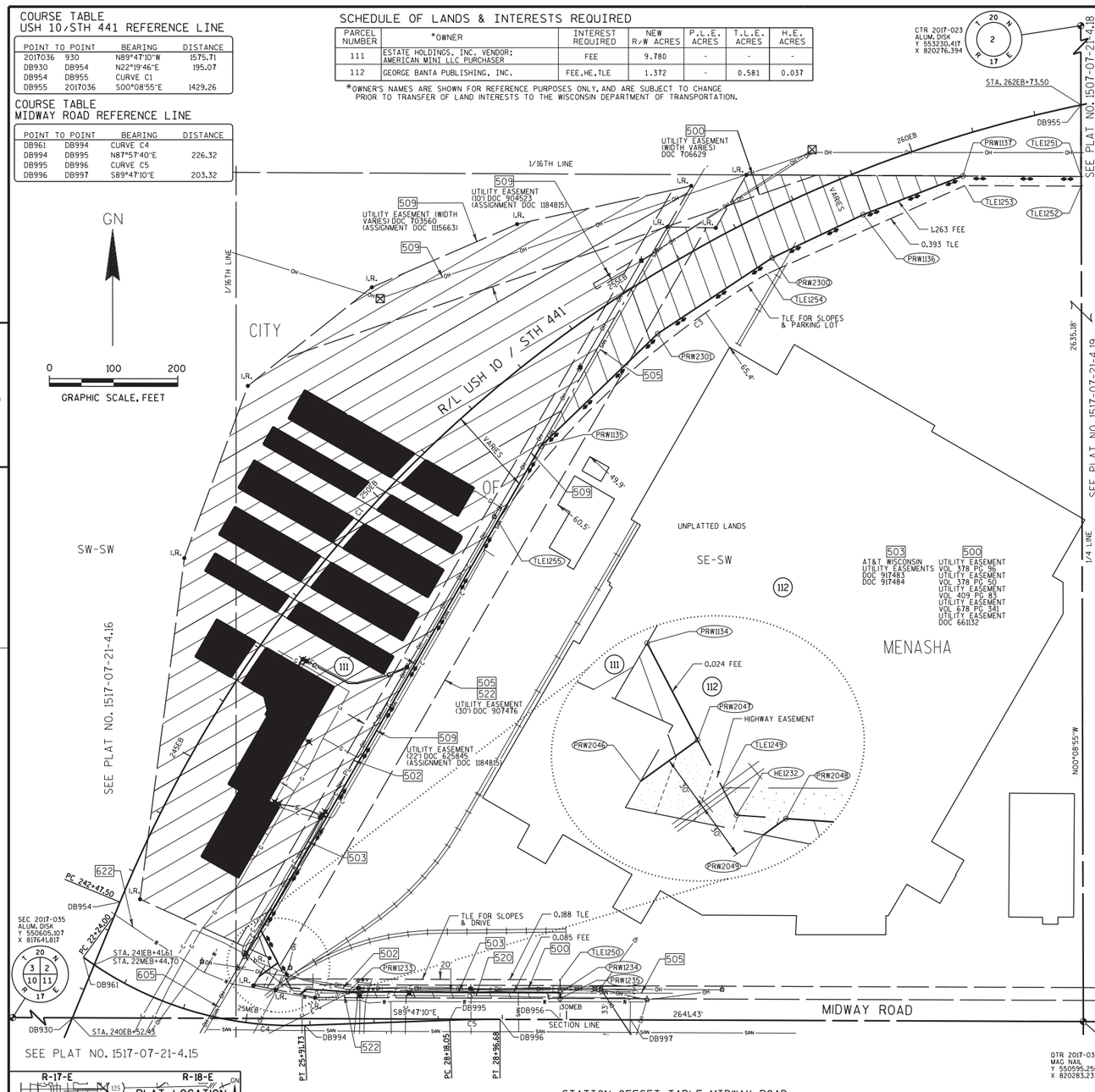
COURSE TABLE
MIDWAY ROAD REFERENCE LINE

POINT TO POINT		BEARING	DISTANCE
DB961	DB994	CURVE C4	
DB994	DB995	N87°57'40"E	226.32
DB995	DB996	CURVE C5	
DB996	DB997	S89°47'10"E	203.32

SCHEDULE OF LANDS & INTERESTS REQUIRED

PARCEL NUMBER	*OWNER	INTEREST REQUIRED	NEW R/W ACRES	P.L.E. ACRES	T.L.E. ACRES	H.E. ACRES
111	ESTATE HOLDINGS, INC. VENDOR; AMERICAN MINI LLC PURCHASER	FEE	9.780	-	-	-
112	GEORGE BANTA PUBLISHING, INC.	FEE,HE,TLE	1.372	-	0.581	0.037

*OWNER'S NAMES ARE SHOWN FOR REFERENCE PURPOSES ONLY, AND ARE SUBJECT TO CHANGE PRIOR TO TRANSFER OF LAND INTERESTS TO THE WISCONSIN DEPARTMENT OF TRANSPORTATION.



CONVENTIONAL ABBREVIATIONS

ACCESS POINT, DRIVEWAY CONNECTION	AP	REFERENCE LINE	R/L
ACCESS RIGHTS	AR	RELEASE OF RIGHTS	ROR
ACRES	AC.	REMAINING	REM.
AND OTHERS	ET.AL.	RIGHT-OF-WAY	R/W
CENTERLINE	C/L	SECTION	SEC.
CERTIFIED SURVEY MAP	CSM	STATION	STA.
CORNER	COR.	TEMPORARY LIMITED EASEMENT	TLE
DOCUMENT	DOC.	VOLUME	VOL
EASEMENT	EASE.	**CURVE DATA**	
HIGHWAY EASEMENT	H.E.	LONG CHORD	LCH
LAND CONTRACT	LC	LONG CHORD BEARING	LCB
MONUMENT	MON.	RADIUS	R
PAGE	PG	DEGREE OF CURVE	D
PERMANENT LIMITED EASEMENT	PLE	CENTRAL ANGLE OR DELTA	DELTA
PROPERTY LINE	PL	LENGTH OF CURVE	L
RECORDED AS	(100')	TANGENT	TAN

CONVENTIONAL SYMBOLS

FOUND IRON PIPE/PIN	⅝ (5/4" IRON REBAR UNLESS NOTED)	PROPOSED R/W LINE	
R/W MONUMENT	● =(SET)	EXISTING H.E. LINE	
R/W STANDARD	▲ =(SET)	PROPERTY LINE	
SIGN	ISIGN	LOT & TIE LINES	
SECTION CORNER MONUMENT	●	SLOPE INTERCEPTS	
SECTION CORNER SYMBOL	(SEC. NO.)	CORPORATE LIMITS	
FEE (HATCH VARIES)		ACCESS RESTRICTED (BY PREVIOUS ACQUISITION/CONTROL)	
TEMPORARY LIMITED EASEMENT		ACCESS RESTRICTED (BY ACQUISITION)	
PERMANENT LIMITED EASEMENT		NO ACCESS (BY STATUTORY AUTHORITY)	
R/W BOUNDARY POINT	PRW000	SECTION LINE	
PARCEL NUMBER	03	QUARTER LINE	
UTILITY NUMBER	92	SIXTEENTH LINE	
SIGN NUMBER (OFF PREMISE)	21	EXISTING CENTERLINE	
BUILDING		PROPOSED REFERENCE LINE	
		PARALLEL OFFSET	

CONVENTIONAL UTILITY SYMBOLS

		NON COMPENSABLE	COMPENSABLE
WATER	W	POWER POLE	
GAS	G	TELEPHONE POLE	
COMMUNICATION	C	TELEPHONE PEDESTAL	
ELECTRIC OVERHEAD	OH	ELECTRIC TOWER	
ELECTRIC UNDERGROUND	E		
FIBER OPTIC	FO		
SANITARY SEWER	SAN		
STORM SEWER	SS		

RL USH-10/STH-441	RL MIDWAY ROAD	RL MIDWAY ROAD
PI STA. 256+56.08	PI STA. 24+15.03	PI STA. 28+57.37
Y : 552084.530	Y : 550582.540	Y : 550598.789
X : 819316.813	X : 818878.528	X : 819334.913
DELTA = 68°21'56"	DELTA = 38°18'27"	DELTA = 2°15'10"
D = 2°45'45"	D = 10°25'03"	D = 2°51'53"
T = 1408.58	T = 191.03	T = 39.32
L = 2474.71	L = 367.72	L = 78.64
R = 2074.00	R = 550.00	R = 2000.00

SCHEDULE OF UTILITIES & INTERESTS REQUIRED

UTILITY NUMBER	*OWNER	INTEREST REQUIRED
500	WE ENERGIES - ELECTRIC	RELEASE OF RIGHTS
502	TIME WARNER	RELEASE OF RIGHTS
503	AT&T WISCONSIN	RELEASE OF RIGHTS
505	TOWN OF MENASHA - SANITARY SEWER	RELEASE OF RIGHTS
509	AMERICAN TRANSMISSION COMPANY	RELEASE OF RIGHTS
520	TDS METROCOM	RELEASE OF RIGHTS
522	MENASHA UTILITIES - WATER	RELEASE OF RIGHTS
605	TOWN OF MENASHA - SANITARY SEWER	UTILITY AGREEMENT
622	TOWN OF MENASHA - WATER	UTILITY AGREEMENT

CURVE TABLE

CURVE	CH DISTANCE	CH BEARING	RADIUS	ARC LENGTH	PI COORDINATES	
C1	1946.40'	N50°18'52"E	2074.00'	2026.00'	X 819200.359	Y 551801.001
C3	568.93'	S47°27'57"W	1306.25'	573.53'	X 819537.282	Y 551615.417
C4	360.91'	S72°53'07"E	550.00'	367.72'	X 818878.528	Y 550582.540
C5	78.63'	N89°05'15"E	2000.00'	78.64'	X 819334.913	Y 550598.789

STATION OFFSET TABLE

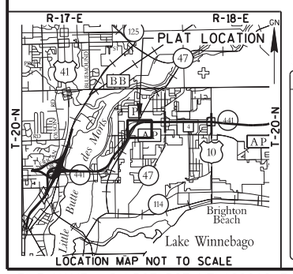
POINT	STATION	OFFSET		X	Y
DB930	240+52.43	0		818707.537	550601.130
DB954	242+47.50	0		818781.651	550781.575
DB955	262+73.50	0		820279.524	552024.500
PRW1134	242+94.89	219.70	R	819001.419	550737.114
PRW1135	252+45.29	114.26	R	819437.665	551492.511
PRW1136	258+92.37	64.83	R	819940.019	551853.438
PRW1137	260+64.38	60.92	R	820095.525	551913.743
TLE1251	262+49.89	109.28	R	820279.814	551912.833
TLE1252	262+46.52	123.94	R	820279.852	551897.833
TLE1253	260+62.44	76.07	R	820098.295	551898.729
TLE1254	257+10.58	85.98	R	819789.807	551760.953
TLE1255	251+08.79	155.75	R	819370.575	551376.339
PRW2300	257+30.36	67.36	R	819798.339	551786.185
PRW2301	255+08.56	81.45	R	819619.789	551667.850

STATION OFFSET TABLE MIDWAY ROAD

POINT	STATION	OFFSET		X	Y
DB956	29+90.00	0		819467.553	550598.294
DB961	22+24.00	0		818724.508	550695.549
DB994	25+91.73	0		819069.439	550589.337
DB995	28+18.05	0		819295.614	550597.390
DB996	28+96.68	0		819374.237	550598.642
DB997	31+00.00	0		819577.552	550597.883
HE1232	25+70.02	58.68	L	819047.968	550647.674
PRW1233	26+61.13	49.75	L	819137.024	550641.528
PRW1234	29+90.00	42.00	L	819467.710	550640.294
PRW1235	29+90.00	33.00	L	819467.676	550631.294
TLE1249	25+61.43	72.81	L	819040.570	550661.888
TLE1250	29+90.00	62.00	L	819467.784	550660.293
PRW2046	25+12.25	73.53	L	818998.077	550665.341
PRW2047	25+45.13	97.22	L	819027.630	550686.752
PRW2048	25+97.82	56.39	L	819073.525	550645.910
PRW2049	25+85.27	48.31	L	819061.834	550637.441

COURSE TABLE
NEW RIGHT OF WAY

POINT TO POINT		BEARING	DISTANCE
2017036	DB956	N89°47'10"W	815.69
DB956	DB930	N89°47'10"W	760.02
DB930	DB954	N22°19'46"E	195.07
DB954	DB955	CURVE C1	
DB955	PRW1137	S58°57'15"W	214.76
PRW1137	PRW1136	S68°48'13"W	166.79
PRW1136	PRW2300	S64°36'26"W	156.83
PRW2300	PRW2301	S56°27'55"W	214.20
PRW2301	PRW1135	S46°05'15"W	252.81
PRW1135	PRW1134	S30°00'24"W	872.32
PRW1134	HE1232	S27°29'40"E	100.83
HE1232	PRW1233	S86°03'06"E	89.27
PRW1233	PRW1234	S89°47'10"E	330.69
PRW1234	DB956	S 0°12'50" W	42.00



QTR 2017-036 MAG NAIL Y 550595.250 X 820283.233

KAPUR & ASSOCIATES, INC. CONSULTING ENGINEERS MILWAUKEE, WISCONSIN 414.351.6668

I, GARY R. SPLINTER, PROFESSIONAL LAND SURVEYOR, HEREBY CERTIFY THAT IN FULL COMPLIANCE WITH THE PROVISIONS OF SECTION 84.095 OF THE WISCONSIN STATUTES AND UNDER THE DIRECTIONS OF THE WISCONSIN DEPARTMENT OF TRANSPORTATION, I HAVE SURVEYED TRANSPORTATION PROJECT PLAT 1517-07-21- 4.17 AND THAT SUCH PLAT CORRECTLY REPRESENTS ALL EXTERIOR BOUNDARIES OF THE SURVEYED LAND.

WISCONSIN GARY R. SPLINTER S-2239 OAK CREEK, WI LAND SURVEYOR

SIGNATURE _____ DATE 12/22/2015
GARY R. SPLINTER, P.L.S. S-2239

THIS PLAT AND RELOCATION ORDER ARE APPROVED FOR THE WISCONSIN DEPARTMENT OF TRANSPORTATION

SIGNATURE _____ DATE 12/22/2015
PRINT CURT VAN EREM

RESERVED FOR REGISTER OF DEEDS
PROJECT NUMBER 1517-07-21-4.17
AMENDMENT NO: 1

ACCEPTED FOR RECORDING AND FILING IN THE OFFICE OF THE REGISTER OF DEEDS IN WINNEBAGO COUNTY, WISCONSIN AT 12:34 O'CLOCK P.M. ON Jan. 4 2016 AS DOCUMENT # 1704427 AND FILED IN File 1 OF TPP PG 268

SIGNATURE OF REGISTER OF DEEDS

1704427

FILE NAME : S:\DOT\DOT_NE\120012-Tri County Freeway\Plat\Plats\040417_RP.dgn
PLOT DATE : 12/22/2015
PLOT BY : gsplinter
PLOT NAME :
PLOT SCALE : 1:100
APPRAISAL PLAT DATE :

TRANSPORTATION PROJECT PLAT NO: 1517-07-21 - 4.17
USH 10 / STH 441, CTH CB - S. ONEIDA ST.

PART OF THE SE 1/4 OF THE SW 1/4 AND THE SW 1/4 OF THE SW 1/4 OF SECTION 2, TOWNSHIP 20 NORTH, RANGE 17 EAST, CITY OF MENASHA, WINNEBAGO COUNTY, WISCONSIN.

RELOCATION ORDER USH 10/STH 441 WINNEBAGO 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 NAMED PROJECT.

TO EFFECT THIS CHANGE, PURSUANT TO AUTHORITY GRANTED UNDER SUBSECTIONS 84.02 (3), 84.09 AND 84.30, 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 NAMED 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 SUBSECTION 84.09 (1) OR (2), WISCONSIN STATUTES.

NOTES:

POSITIONS SHOWN ON THIS PLAT ARE WISCONSIN COUNTY COORDINATES, WINNEBAGO COUNTY, NAD 83 (91) IN U.S. SURVEY FEET. VALUES SHOWN ARE GRID COORDINATES, GRID BEARINGS, AND GRID DISTANCES. GRID DISTANCES MAY BE USED AS GROUND DISTANCES.

RIGHT OF WAY BOUNDARIES ARE DEFINED WITH COURSES OF THE PERIMETER OF THE HIGHWAY LANDS AND ARE REFERENCED TO THE US PUBLIC LAND SURVEY OR OTHER SURVEYS OF PUBLIC RECORD.

DIMENSIONING FOR THE NEW RIGHT-OF-WAY IS MEASURED ALONG AND PERPENDICULAR TO NEW REFERENCE LINES.

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A TEMPORARY LIMITED EASEMENT (TLE) IS A RIGHT FOR CONSTRUCTION PURPOSES, AS DEFINED HEREIN, INCLUDING THE RIGHT TO OPERATE NECESSARY EQUIPMENT THEREON AND THE RIGHT OF INGRESS AND EGRESS, AS LONG 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 TLEs EXPIRE AT THE COMPLETION OF THE CONSTRUCTION PROJECT FOR WHICH THIS INSTRUMENT IS GIVEN.

A HIGHWAY EASEMENT (HE) IS AN EASEMENT FOR HIGHWAY PURPOSES, AS LONG AS SO USED, INCLUDING THE RIGHT TO PRESERVE, PROTECT, REMOVE OR PLANT THEREON ANY VEGETATION THAT THE HIGHWAY AUTHORITIES MAY DEEM NECESSARY OR DESIRABLE.

RIGHT OF WAY MONUMENTS ARE TYPE 2 MONUMENTS (TYPICALLY 1" X 24" IRON PIPE) AND WILL BE PLACED PRIOR TO THE COMPLETION OF THE PROJECT.

EXISTING RIGHT OF WAY WAS REESTABLISHED UNDER PROJECT: TRANSPORTATION PROJECT PLAT NO. 1517-07-00-4.11, DOCUMENT NO. 1590516, FILED IN FILE 1, TPP PG 201.

EXISTING ACCESS CONTROL WAS ACQUIRED UNDER PROJECT: 4685-04-00. STH 441 IN WINNEBAGO COUNTY WAS DESIGNATED AS A FREEWAY UNDER SECTION 84.295 OF THE WISCONSIN STATE STATUTES BY THE WISCONSIN DEPARTMENT OF TRANSPORTATION ON JUNE 26, 1986.

THE REFERENCE LINE SHOWN ON THIS PLAT MAY NOT BE THE SAME AS THE REFERENCE LINE SHOWN ON THE CONSTRUCTION PLAN.

CONVENTIONAL ABBREVIATIONS

ACCESS POINT, DRIVEWAY CONNECTION	AP	REFERENCE LINE	R/L
ACCESS RIGHTS	AR	RELEASE OF RIGHTS	ROR
ACRES	AC.	REMAINING	REM.
AND OTHERS	ET.AL.	RIGHT-OF-WAY	R/W
CENTERLINE	C/L	SECTION	SEC.
CERTIFIED SURVEY MAP	CSM	STATION	STA.
CORNER	COR.	TEMPORARY LIMITED EASEMENT	TLE
DOCUMENT	DOC.	VOLUME	VOL
EASEMENT	EASE.	**CURVE DATA**	
HIGHWAY EASEMENT	H.E.	LONG CHORD	LCH
LAND CONTRACT	LC	LONG CHORD BEARING	LCB
MONUMENT	MON.	RADIUS	R
PAGE	PG	DEGREE OF CURVE	D
PERMANENT LIMITED EASEMENT	PLE	CENTRAL ANGLE OR DELTA	DELTA
PROPERTY LINE	PL	LENGTH OF CURVE	L
RECORDED AS	(100')	TANGENT	TAN

CONVENTIONAL SYMBOLS

FOUND IRON PIPE/PIN — ⅝ (5/4" IRON REBAR UNLESS NOTED)
R/W MONUMENT — ●(SET)
R/W STANDARD — ▲(SET)
SIGN — ISIGN
SECTION CORNER MONUMENT — ●
SECTION CORNER SYMBOL — (SEC. COR.)
FEE (HATCH VARIES)
TEMPORARY LIMITED EASEMENT
PERMANENT LIMITED EASEMENT
R/W BOUNDARY POINT — PRW000
PARCEL NUMBER — 103
UTILITY NUMBER — 92
SIGN NUMBER (OFF PREMISE) — 21-Y
BUILDING

PROPOSED R/W LINE
EXISTING H.E. LINE
PROPERTY LINE
LOT & TIE LINES
SLOPE INTERCEPTS
CORPORATE LIMITS
ACCESS RESTRICTED (BY PREVIOUS ACQUISITION/CONTROL)
ACCESS RESTRICTED (BY ACQUISITION)
NO ACCESS (BY STATUTORY AUTHORITY)
SECTION LINE
QUARTER LINE
SIXTEENTH LINE
EXISTING CENTERLINE
PROPOSED REFERENCE LINE
PARALLEL OFFSET

CONVENTIONAL UTILITY SYMBOLS

WATER — W
GAS — G
COMMUNICATION — C
ELECTRIC OVERHEAD — OH
ELECTRIC UNDERGROUND — E
FIBER OPTIC — FO
SANITARY SEWER — SAN
STORM SEWER — SS

NON COMPENSABLE COMPENSABLE

POWER POLE
TELEPHONE POLE
TELEPHONE PEDESTAL
ELECTRIC TOWER

RL USH-10/STH-441
PI STA. 256+56.08
Y : 552084.530
X : 819316.813
DELTA = 68°21'56"
D = 2°45'45"
T = 1408.58
L = 2474.71
R = 2074.00

RL MIDWAY ROAD
PI STA. 24+15.03
Y : 550582.540
X : 818878.528
DELTA = 38°18'27"
D = 10°25'03"
T = 191.03
L = 367.72
R = 550.00

RL MIDWAY ROAD
PI STA. 28+57.37
Y : 550598.789
X : 819334.913
DELTA = 2°15'10"
D = 2°51'53"
T = 39.32
L = 78.64
R = 2000.00

SCHEDULE OF UTILITIES & INTERESTS REQUIRED

UTILITY NUMBER	*OWNER	INTEREST REQUIRED
500	WE ENERGIES - ELECTRIC	RELEASE OF RIGHTS
502	TIME WARNER	RELEASE OF RIGHTS
503	AT&T WISCONSIN	RELEASE OF RIGHTS
505	TOWN OF MENASHA - SANITARY SEWER	RELEASE OF RIGHTS
509	AMERICAN TRANSMISSION COMPANY	RELEASE OF RIGHTS
518	TOWN OF MENASHA - ELECTRIC	RELEASE OF RIGHTS
520	TDS METROCOM	RELEASE OF RIGHTS
522	MENASHA UTILITIES - WATER	RELEASE OF RIGHTS
605	TOWN OF MENASHA - SANITARY SEWER	UTILITY AGREEMENT
622	TOWN OF MENASHA - WATER	UTILITY AGREEMENT

CURVE TABLE

CURVE	CH DISTANCE	CH BEARING	RADIUS	ARC LENGTH	PI COORDINATES
C1	1946.40'	N50°18'52"E	2074.00'	2026.00'	X 819200.359 Y 551801.001
C2	409.03'	S51°54'12"W	1336.25'	410.65'	X 819607.778 Y 551693.333
C3	568.93'	S47°27'57"W	1306.25'	573.53'	X 819537.282 Y 551615.417
C4	360.91'	S72°53'07"E	550.00'	367.72'	X 818878.528 Y 550582.540
C5	78.63'	N89°05'15"E	2000.00'	78.64'	X 819334.913 Y 550598.789

COURSE TABLE
USH 10/STH 441 REFERENCE LINE

POINT	TO POINT	BEARING	DISTANCE
2017036	930	N89°47'10"W	1575.71
DB930	DB954	N22°19'46"E	195.07
DB954	DB955	CURVE C1	
DB955	2017036	S00°08'55"E	1429.26

COURSE TABLE
MIDWAY ROAD REFERENCE LINE

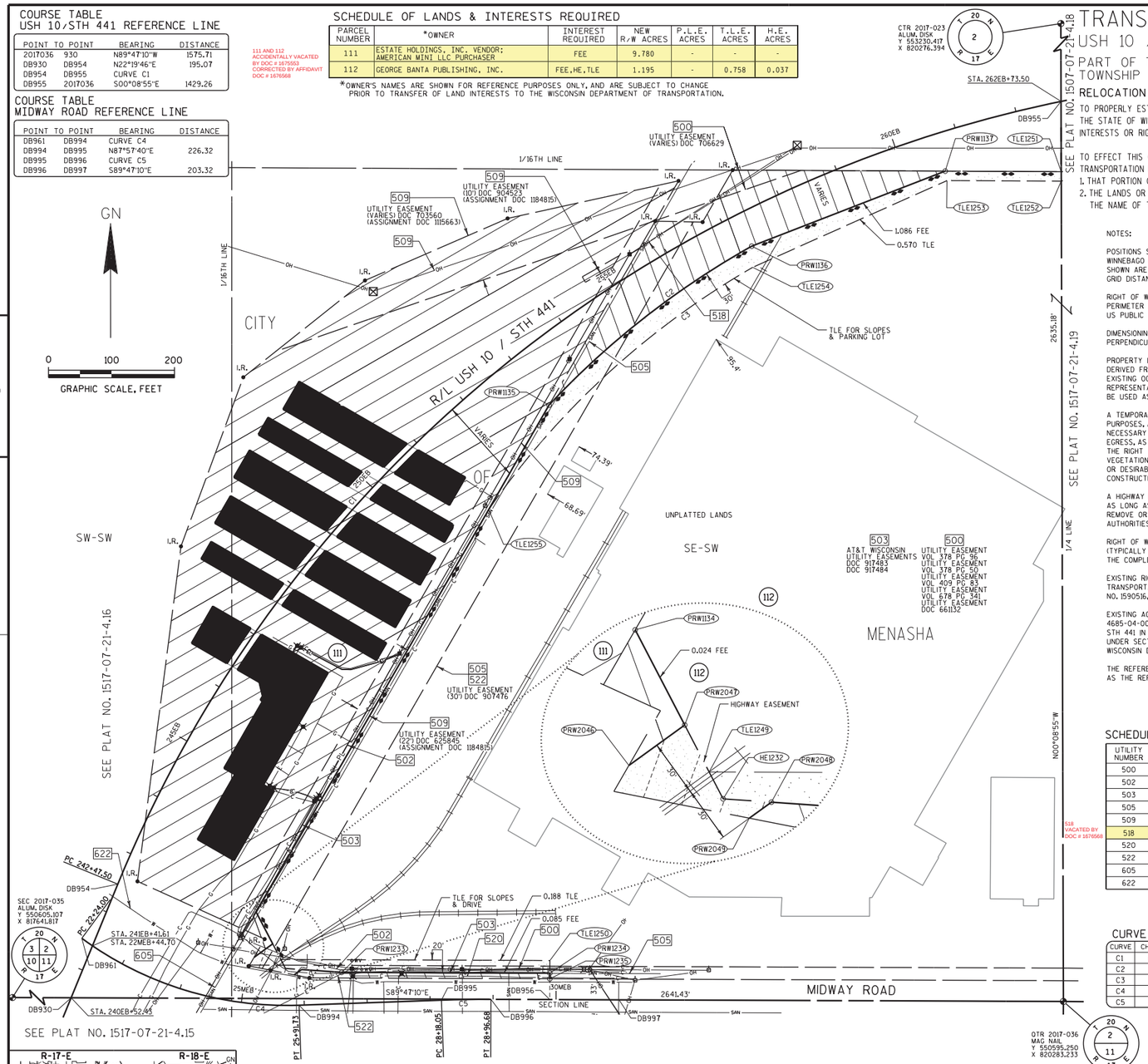
POINT	TO POINT	BEARING	DISTANCE
DB961	DB994	CURVE C4	
DB994	DB995	N87°57'40"E	226.32
DB995	DB996	CURVE C5	
DB996	DB997	S89°47'10"E	203.32

SCHEDULE OF LANDS & INTERESTS REQUIRED

PARCEL NUMBER	*OWNER	INTEREST REQUIRED	NEW R/W ACRES	P.L.E. ACRES	T.L.E. ACRES	H.E. ACRES
111	ESTATE HOLDINGS, INC. VENDOR; AMERICAN MINI LLC PURCHASER	FEE	9.780	-	-	-
112	GEORGE BANTA PUBLISHING, INC.	FEE,HE,TLE	1.195	-	0.758	0.037

111 AND 112 ACCIDENTALLY VACATED BY DOC # 1675553 CORRECTED BY AFFIDAVIT DOC # 1676568

*OWNER'S NAMES ARE SHOWN FOR REFERENCE PURPOSES ONLY, AND ARE SUBJECT TO CHANGE PRIOR TO TRANSFER OF LAND INTERESTS TO THE WISCONSIN DEPARTMENT OF TRANSPORTATION.



STATION OFFSET TABLE

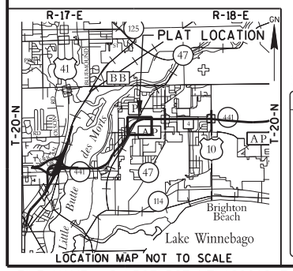
POINT	STATION	OFFSET		X	Y
DB930	240+52.43	0		818707.537	550601.130
DB954	242+47.50	0		818781.651	550781.575
DB955	262+73.50	0		820279.524	552024.500
PRW1134	242+94.89	219.70	R	819001.419	550737.114
PRW1135	253+01.84	94.00	R	819466.372	551542.220
PRW1136	257+25.00	55.32	R	819788.271	551794.590
PRW1137	260+64.38	60.92	R	820095.525	551913.743
TLE1251	262+49.89	109.28	R	820279.814	551912.833
TLE1252	262+46.52	123.94	R	820279.852	551897.833
TLE1253	260+62.44	76.07	R	820098.295	551898.729
TLE1254	257+10.58	85.98	R	819789.807	551760.953
TLE1255	251+08.79	155.75	R	819370.575	551376.339

STATION OFFSET TABLE MIDWAY ROAD

POINT	STATION	OFFSET		X	Y
DB956	29+90.00	0		819467.553	550598.294
DB961	22+24.00	0		818724.508	550695.549
DB994	25+91.73	0		819069.439	550589.337
DB995	28+18.05	0		819295.614	550597.390
DB996	28+96.68	0		819374.237	550598.642
DB997	31+00.00	0		819577.552	550597.883
HE1232	25+70.02	58.68	L	819047.968	550647.674
PRW1233	26+61.13	49.75	L	819137.024	550641.528
PRW1234	29+90.00	42.00	L	819467.710	550640.294
PRW1235	29+90.00	33.00	L	819467.676	550631.294
TLE1249	25+61.43	72.81	L	819040.570	550661.888
TLE1250	29+90.00	62.00	L	819467.784	550660.293
PRW2046	25+12.25	73.53	L	818998.077	550665.341
PRW2047	25+45.13	97.22	L	819027.630	550686.752
PRW2048	25+97.82	56.39	L	819073.525	550645.910
PRW2049	25+85.27	48.31	L	819061.834	550637.441

COURSE TABLE
NEW RIGHT OF WAY

POINT	TO POINT	BEARING	DISTANCE
2017036	DB956	N89°47'10"W	815.69
DB956	DB930	N89°47'10"W	760.02
DB930	DB954	N22°19'46"E	195.07
DB954	DB955	CURVE C1	
DB955	PRW1137	S58°57'15"W	214.76
PRW1137	PRW1136	S68°48'13"W	329.55
PRW1136	PRW1135	CURVE C2	
PRW1135	PRW1134	S30°00'24"W	929.72
PRW1134	HE1232	S27°29'40"E	100.83
HE1232	PRW1233	S86°03'06"E	89.27
PRW1233	PRW1234	S89°47'10"E	330.69
PRW1234	DB956	S 0°12'50" W	42.00



KAPUR & ASSOCIATES, INC.
CONSULTING ENGINEERS
MILWAUKEE, WISCONSIN
414.351.6668

I, GARY R. SPLINTER, REGISTERED LAND SURVEYOR, HEREBY CERTIFY THAT IN FULL COMPLIANCE WITH THE PROVISIONS OF SECTION 84.095 OF THE WISCONSIN STATUTES AND UNDER THE DIRECTIONS OF THE WISCONSIN DEPARTMENT OF TRANSPORTATION, I HAVE SURVEYED TRANSPORTATION PROJECT PLAT 1517-07-21- 4.17 AND THAT SUCH PLAT CORRECTLY REPRESENTS ALL EXTERIOR BOUNDARIES OF THE SURVEYED LAND.

WISCONSIN GARY R. SPLINTER S-2239 OAK CREEK, WI LAND SURVEYOR

SIGNATURE _____ DATE 01/27/14
GARY R. SPLINTER, R.L.S. S-2239

THIS PLAT AND RELOCATION ORDER ARE APPROVED FOR THE WISCONSIN DEPARTMENT OF TRANSPORTATION

SIGNATURE _____ DATE 02/06/14
PRINT CURT VAN EREM

RESERVED FOR REGISTER OF DEEDS
PROJECT NUMBER 1517-07-21-4.17
AMENDMENT NO:

ACCEPTED FOR RECORDING AND FILING IN THE OFFICE OF THE REGISTER OF DEEDS IN WINNEBAGO COUNTY, WISCONSIN AT 10:26 AM ON 2/25/2014 AS DOCUMENT # 1658573 AND FILED IN File 1 of TPP 239

_____
SIGNATURE OF REGISTER OF DEEDS

FEE EXEMPT

FILE NAME : S:\DOT\DOT_NE\120012-Tri County Freeway\Plat\Plats\040417_RP.dgn
PLOT DATE : 2/18/2014
PLOT BY : g_splinter
PLOT NAME :
PLOT SCALE : 1:100
APPRAISAL PLAT DATE :

TRANSPORTATION PROJECT PLAT NO: 1517-07-21 - 4.18 AMENDMENT NO. 2

ADDS PARCEL 315 TO TPP 1517-07-21-4.18 RECORDED AS DOCUMENT 1658574.

USH 10 / STH 441, CTH CB - S. ONEIDA ST.

PART OF THE SW 1/4 OF THE SE 1/4, LOT 1 OF CSM 4042 OF THE SE 1/4 OF THE SE 1/4, LOT 1 OF CSM 5767 AND LOT 1 OF CSM 1454 IN THE NE 1/4 OF THE SE 1/4 OF SECTION 2, TOWNSHIP 20 NORTH, RANGE 17 EAST, CITY OF MENASHA, AND LANDS IN THE NE 1/4 OF THE SE 1/4 OF SECTION 2, TOWNSHIP 20 NORTH, RANGE 17 EAST, TOWN OF MENASHA, ALL IN WINNEBAGO COUNTY, WISCONSIN.

RELOCATION ORDER USH 10/STH 441 WINNEBAGO 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 NAMED PROJECT.

TO EFFECT THIS CHANGE, PURSUANT TO AUTHORITY GRANTED UNDER SUBSECTIONS 84.02 (3), 84.09 AND 84.30, 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 NAMED 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 SUBSECTION 84.09 (1) OR (2), WISCONSIN STATUTES.

CONVENTIONAL ABBREVIATIONS

ACCESS POINT/ DRIVEWAY CONNECTION	AP	REFERENCE LINE	R/L
ACCESS RIGHTS	AR	RELEASE OF RIGHTS	ROR
ACRES	AC.	REMAINING	REM.
AND OTHERS	ET.AL.	RIGHT-OF-WAY	R/W
CENTERLINE	C/L	SECTION	SEC.
CERTIFIED SURVEY MAP	CSM	STATION	STA.
CORNER	COR.	TEMPORARY LIMITED EASEMENT	TLE
DOCUMENT	DOC.	VOLUME	VOL
EASEMENT	EASE.		
HIGHWAY EASEMENT	H.E.		
LAND CONTRACT	LC		
MONUMENT	MON.		
PAGE	PG		
PERMANENT LIMITED EASEMENT	PLE		
PROPERTY LINE	PL		
RECORDED AS	(100')		

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

CONVENTIONAL SYMBOLS

FOUND IRON PIPE/PIN	⌖ (3/4" IRON REBAR UNLESS NOTED)	PROPOSED R/W LINE	
R/W MONUMENT	● (SET)	EXISTING H.E. LINE	
R/W STANDARD	▲ (SET)	PROPERTY LINE	
SIGN	ISIGN	LOT & TIE LINES	
SECTION CORNER MONUMENT		SLOPE INTERCEPTS	
SECTION CORNER SYMBOL		CORPORATE LIMITS	
		ACCESS RESTRICTED (BY PREVIOUS ACQUISITION/CONTROL)	
FEE (HATCH VARIES)		ACCESS RESTRICTED (BY ACQUISITION)	
TEMPORARY LIMITED EASEMENT		NO ACCESS (BY STATUTORY AUTHORITY)	
PERMANENT LIMITED EASEMENT		SECTION LINE	
R/W BOUNDARY POINT	PR#0000	QUARTER LINE	
PARCEL NUMBER	02	SIXTEENTH LINE	
UTILITY NUMBER	92	EXISTING CENTERLINE	
SIGN NUMBER (OFF PREMISE)	21-D	PROPOSED REFERENCE LINE	
BUILDING		PARALLEL OFFSET	

GN

0 100 200

GRAPHIC SCALE, FEET

CONVENTIONAL UTILITY SYMBOLS

WATER	W	
GAS	G	
COMMUNICATION	C	
ELECTRIC OVERHEAD	OH	
ELECTRIC UNDERGROUND	E	
FIBER OPTIC	FO	
SANITARY SEWER	SAN	
STORM SEWER	SS	
	NON COMPENSABLE	COMPENSABLE
POWER POLE		
TELEPHONE POLE		
TELEPHONE PEDESTAL		
ELECTRIC TOWER		

NOTES:

POSITIONS SHOWN ON THIS PLAT ARE WISCONSIN COUNTY COORDINATES, WINNEBAGO COUNTY, NAD 83 (91) IN U.S. SURVEY FEET. VALUES SHOWN ARE GRID COORDINATES, GRID BEARINGS, AND GRID DISTANCES. GRID DISTANCES MAY BE USED AS GROUND DISTANCES.

RIGHT OF WAY BOUNDARIES ARE DEFINED WITH COURSES OF THE PERIMETER OF THE HIGHWAY LANDS AND ARE REFERENCED TO THE US PUBLIC LAND SURVEY OR OTHER SURVEYS OF PUBLIC RECORD.

DIMENSIONING FOR THE NEW RIGHT-OF-WAY IS MEASURED ALONG AND PERPENDICULAR TO NEW REFERENCE LINES.

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 AND SHOULD NOT BE USED AS A SUBSTITUTE FOR AN ACCURATE FIELD SURVEY.

A TEMPORARY LIMITED EASEMENT (TLE) IS A RIGHT FOR CONSTRUCTION PURPOSES, AS DEFINED HEREIN, INCLUDING THE RIGHT TO OPERATE NECESSARY EQUIPMENT THEREON AND THE RIGHT OF INGRESS AND EGRESS, AS LONG 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 TLEs EXPIRE AT THE COMPLETION OF THE CONSTRUCTION PROJECT FOR WHICH THIS INSTRUMENT IS GIVEN.

RIGHT OF WAY MONUMENTS ARE TYPE 2 MONUMENTS (TYPICALLY 1" X 24" IRON PIPE) AND WILL BE PLACED PRIOR TO THE COMPLETION OF THE PROJECT.

EXISTING RIGHT OF WAY WAS REESTABLISHED UNDER PROJECT: TRANSPORTATION PROJECT PLAT NO. 1517-07-00-4.12, DOCUMENT NO. 1590517, FILED IN FILE 1, TPP PG 202 & 1517-07-00-4.13, DOCUMENT NO. 1590518, FILED IN FILE 1, TPP PG 203.

EXISTING ACCESS CONTROL WAS ACQUIRED UNDER PROJECT: 4685-04-00.
STH 441 IN WINNEBAGO COUNTY WAS DESIGNATED AS A FREEWAY UNDER SECTION 84.295 OF THE WISCONSIN STATE STATUTES BY THE WISCONSIN DEPARTMENT OF TRANSPORTATION ON JUNE 26, 1986.

THE REFERENCE LINE SHOWN ON THIS PLAT MAY NOT BE THE SAME AS THE REFERENCE LINE SHOWN ON THE CONSTRUCTION PLAN.

STATION OFFSET TABLE APPLETON ROAD/STH 47

POINT	STATION	OFFSET		X	Y
TLE1997	128+35.72	70.02	L	822843.625	552930.851
TLE1999	126+13.88	87.89	L	822826.745	552708.931
TLE2000	126+13.95	104.58	L	822810.060	552708.928
TLE2001	125+77.67	106.39	L	822808.415	552672.640
TLE2002	125+76.40	80.88	L	822833.926	552671.483
PRW2091	127+62.78	65.87	L	822848.107	552857.928
PRW2092	127+62.78	71.56	L	822842.412	552857.904
PRW2093	127+80.78	71.43	L	822842.469	552875.904
PRW2094	127+80.78	64.42	L	822849.477	552875.934
PRW2095	128+35.51	50.00	L	822863.650	552930.729
PRW2096	128+35.58	56.02	L	822857.633	552930.766
TLE2097	128+63.83	50.00	L	822863.523	552959.045
TLE2098	128+68.63	58.00	L	822855.502	552963.811
TLE2099	130+15.65	58.00	L	822854.846	553110.831
ERW7210	130+60.82	51.30	L	822861.349	553156.030
ERW7211	128+35.62	60.00	L	822853.649	552930.790
ERW7400	130+59.51	50.00	L	822862.650	553154.727

SCHEDULE OF UTILITIES & INTERESTS REQUIRED

UTILITY NUMBER	*OWNER	INTEREST REQUIRED
500	WE ENERGIES - ELECTRIC	RELEASE OF RIGHTS
502	TIME WARNER CABLE	RELEASE OF RIGHTS
503	AT&T WISCONSIN	RELEASE OF RIGHTS
605	TOWN OF MENASHA - SANITARY SEWER	UTILITY AGREEMENT
622	TOWN OF MENASHA - WATER	UTILITY AGREEMENT

COURSE TABLE USH 10/STH 441 REFERENCE LINE

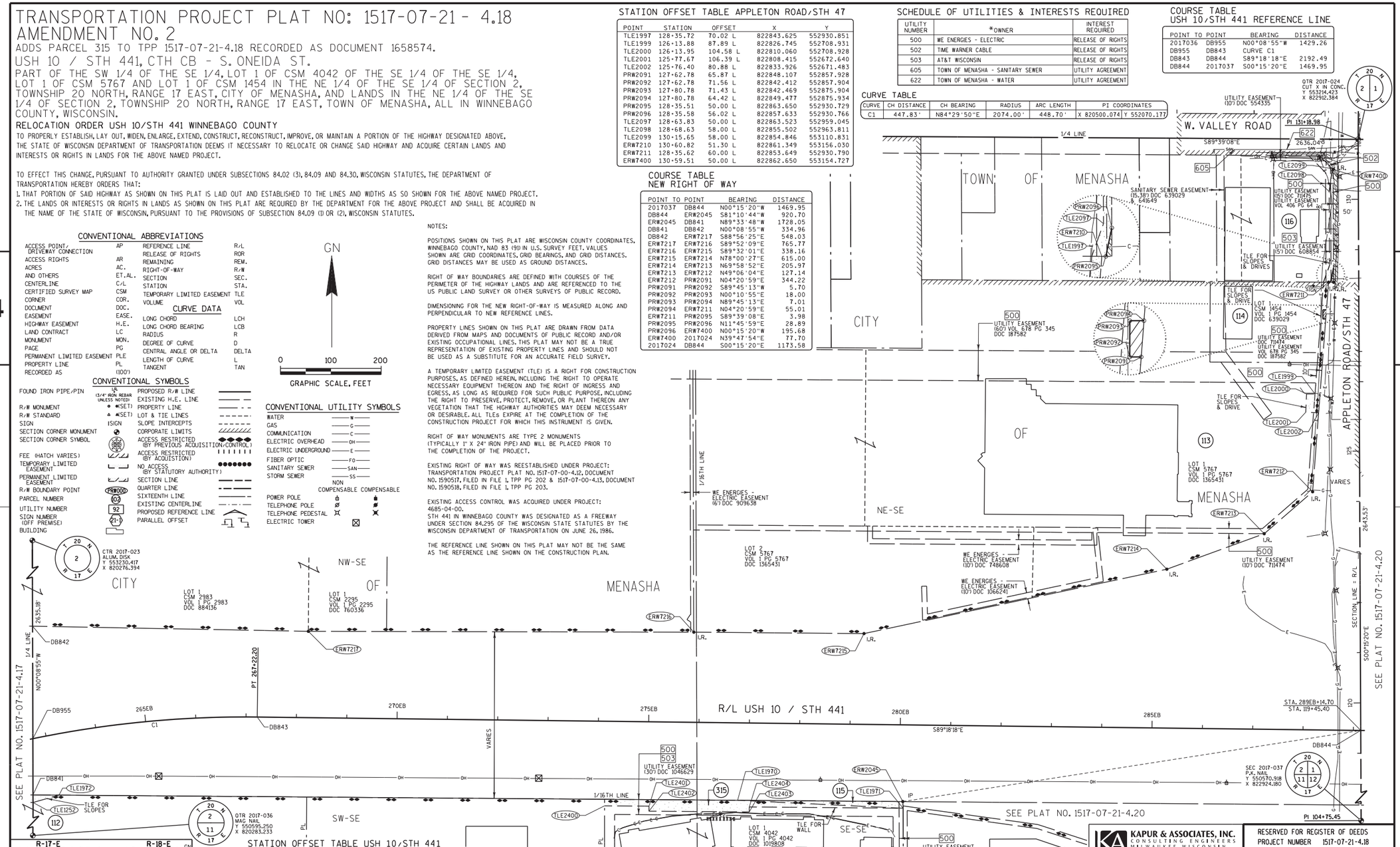
POINT TO POINT		BEARING	DISTANCE
2017036	DB955	N00°08'55"W	1429.26
DB955	DB843	CURVE C1	
DB843	DB844	S89°18'18"E	2192.49
DB844	2017037	S00°15'20"E	1469.95

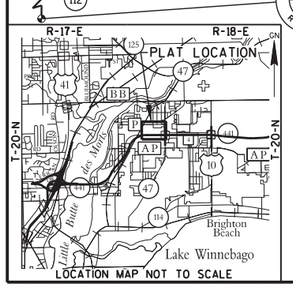
CURVE TABLE

CURVE	CH DISTANCE	CH BEARING	RADIUS	ARC LENGTH	PI COORDINATES
C1	447.83'	N84°29'50"E	2074.00'	448.70'	X 820500.074 Y 552070.177

COURSE TABLE NEW RIGHT OF WAY

POINT TO POINT		BEARING	DISTANCE
2017037	DB844	N00°15'20"W	1469.95
DB844	ERW2045	S81°10'44"W	920.70
ERW2045	DB841	N89°33'48"W	1728.05
DB841	DB842	N00°08'55"W	334.96
DB842	ERW7217	S88°56'25"E	548.03
ERW7217	ERW7216	S89°52'09"E	765.77
ERW7216	ERW7215	S89°32'01"E	338.16
ERW7215	ERW7214	N78°00'27"E	615.00
ERW7214	ERW7213	N69°58'52"E	205.97
ERW7213	ERW7212	N49°06'04"E	127.14
ERW7212	PRW2091	N04°20'59"E	344.22
PRW2091	PRW2092	S89°45'13"W	5.70
PRW2092	PRW2093	N00°10'55"E	18.00
PRW2093	PRW2094	N89°45'13"E	7.01
PRW2094	ERW7211	N04°20'59"E	55.01
ERW7211	PRW2095	S89°39'08"E	3.98
PRW2095	PRW2096	N11°45'59"E	28.89
PRW2096	ERW7400	N00°15'20"W	195.68
ERW7400	2017024	N39°47'54"E	77.70
2017024	DB844	S00°15'20"E	1173.58





STATION OFFSET TABLE USH 10/STH 441

POINT	STATION	OFFSET		X	Y
DB841	262+49.89	109.28	R	820279.814	551912.833
DB842	263+13.95	219.21	L	820278.944	552247.794
DB843	267+22.20	0		820725.287	552067.445
DB844	289+14.70	0		822917.621	552040.853
DB955	262+73.50	0		820279.524	552024.500
TLE1252	262+46.52	123.94	R	820279.852	551897.833
TLE1970	276+78.40	153.69	R	821679.547	551902.165
TLE1971	280+07.45	165.47	R	822008.430	551886.395
TLE1972	263+03.36	120.06	R	820331.459	551912.439
ERW2045	280+06.67	152.21	R	822007.813	551899.663
TLE2400	274+14.23	167.89	R	821415.228	551891.179
TLE2401	275+02.55	167.49	R	821503.550	551890.506
TLE2402	275+02.60	177.49	R	821503.473	551880.506
TLE2403	277+01.85	176.59	R	821702.720	551878.988
TLE2404	277+01.80	166.59	R	821702.796	551888.987
ERW7212	288+13.34	472.65	L	822822.000	552514.696
ERW7213	287+18.25	388.25	L	822725.899	552431.454
ERW7214	285+25.60	315.40	L	822532.375	552360.945
ERW7215	279+25.61	180.32	L	821930.796	552233.157
ERW7216	275+87.46	178.97	L	821592.650	552235.909
ERW7217	268+21.73	171.43	L	820826.883	552237.658

RL USH-10/STH-441
PI STA. 256+56.08
Y : 552084.530
X : 819316.813
DELTA = 68°21'56"
D = 2°45'45"
T = 1408.58
L = 2474.71
R = 2074.00

SCHEDULE OF LANDS & INTERESTS REQUIRED

PARCEL NUMBER	*OWNER	INTEREST REQUIRED	NEW R/W ACRES	P.L.E. ACRES	T.L.E. ACRES
112	GEORGE BANTA PUBLISHING, INC.	TLE	-	-	0.009
113	GOODWILL INDUSTRIES DEVELOPMENT CORP.	TLE	-	-	0.036
114	GENE A. PATZNER	FEE/TLE	0.003	-	0.034
115	BACH AND MILLER MANAGEMENT, INC.	TLE	-	-	0.050
116	ALAN E. & PAMELA S. SCHMEISER	FEE/TLE	0.002	-	0.040
315	BACH AND MILLER MANAGEMENT, INC.	TLE	-	-	0.173

*OWNER'S NAMES ARE SHOWN FOR REFERENCE PURPOSES ONLY, AND ARE SUBJECT TO CHANGE PRIOR TO TRANSFER OF LAND INTERESTS TO THE WISCONSIN DEPARTMENT OF TRANSPORTATION.

KAPUR & ASSOCIATES, INC.
CONSULTING ENGINEERS
MILWAUKEE, WISCONSIN
414.351.6668

I, GARY R. SPLINTER, PROFESSIONAL LAND SURVEYOR, HEREBY CERTIFY THAT IN FULL COMPLIANCE WITH THE PROVISIONS OF SECTION 84.095 OF THE WISCONSIN STATUTES AND UNDER THE DIRECTIONS OF THE WISCONSIN DEPARTMENT OF TRANSPORTATION, I HAVE SURVEYED TRANSPORTATION PROJECT PLAT 1517-07-21- 4.18 AND THAT SUCH PLAT CORRECTLY REPRESENTS ALL EXTERIOR BOUNDARIES OF THE SURVEYED LAND.

WISCONSIN GARY R. SPLINTER S-2239 OAK CREEK, WI LAND SURVEYOR

SIGNATURE _____ DATE 06/15/16
GARY R. SPLINTER, P.L.S. S-2239

THIS PLAT AND RELOCATION ORDER ARE APPROVED FOR THE WISCONSIN DEPARTMENT OF TRANSPORTATION

SIGNATURE _____ DATE 06/15/16
PRINT CURT VAN EREM

RESERVED FOR REGISTER OF DEEDS
PROJECT NUMBER 1517-07-21-4.18
AMENDMENT NO: 2

D286450
TX:4207034
1715959
REGISTER'S OFFICE
WINNEBAGO COUNTY, WI
RECORDED ON
06/21/2016 1:56 PM
CHRISTOPHER LARSON
DEPUTY REGISTER OF DEEDS
File 1 of TPP Pg. 976
RECORDING FEE 25.00
PAGES: 1

FILE NAME : S:\DOT\DOT_NE\120012-Tri County Freeway\Plat\Plats\040418_RP.dgn
APPRAISAL PLAT DATE :
PLOT DATE : 6/15/2016
PLOT BY : gsplinter
PLOT NAME :
PLOT SCALE : 1:100

TRANSPORTATION PROJECT PLAT NO: 1517-07-21 - 4.18 AMENDMENT NO. 1

AMENDS PARCELS 114 AND 116 AND ADDS UTILITY NUMBER 502 TO TPP 1517-07-21-4.18 RECORDED AS DOCUMENT 1658574.

USH 10 / STH 441, CTH CB - S. ONEIDA ST.

PART OF THE SW 1/4 OF THE SE 1/4, LOT 1 OF CSM 4042 OF THE SE 1/4 OF THE SE 1/4, LOT 1 OF CSM 5767 AND LOT 1 OF CSM 1454 IN THE NE 1/4 OF THE SE 1/4 OF SECTION 2, TOWNSHIP 20 NORTH, RANGE 17 EAST, CITY OF MENASHA, AND LANDS IN THE NE 1/4 OF THE SE 1/4 OF SECTION 2, TOWNSHIP 20 NORTH, RANGE 17 EAST, TOWN OF MENASHA, ALL IN WINNEBAGO COUNTY, WISCONSIN.

RELOCATION ORDER USH 10/STH 441 WINNEBAGO 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 NAMED PROJECT.

TO EFFECT THIS CHANGE, PURSUANT TO AUTHORITY GRANTED UNDER SUBSECTIONS 84.02 (3), 84.09 AND 84.30, 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 NAMED 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 SUBSECTION 84.09 (1) OR (2), WISCONSIN STATUTES.

CONVENTIONAL ABBREVIATIONS

ACCESS POINT/ DRIVEWAY CONNECTION	AP	REFERENCE LINE	R/L
ACCESS RIGHTS	AR	RELEASE OF RIGHTS	ROR
ACRES	AC.	REMAINING	REM.
AND OTHERS	ET.AL.	RIGHT-OF-WAY	R/W
CENTERLINE	C/L	SECTION	SEC.
CERTIFIED SURVEY MAP	CSM	STATION	STA.
CORNER	COR.	TEMPORARY LIMITED EASEMENT	TLE
DOCUMENT	DOC.	VOLUME	VOL
EASEMENT	EASE.		
HIGHWAY EASEMENT	H.E.		
LAND CONTRACT	LC		
MONUMENT	MON.		
PAGE	PG		
PERMANENT LIMITED EASEMENT	PLE		
PROPERTY LINE	PL		
RECORDED AS	(100')		

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

CONVENTIONAL SYMBOLS

FOUND IRON PIPE/PIN	⌀ (3/4" IRON REBAR UNLESS NOTED)	PROPOSED R/W LINE	
R/W MONUMENT	○ ●(SET)	EXISTING H.E. LINE	
R/W STANDARD	△ ▲(SET)	PROPERTY LINE	
SIGN	ISIGN	LOT & TIE LINES	
SECTION CORNER MONUMENT		SLOPE INTERCEPTS	
SECTION CORNER SYMBOL		CORPORATE LIMITS	
		ACCESS RESTRICTED (BY PREVIOUS ACQUISITION/CONTROL)	
FEE (HATCH VARIES)		ACCESS RESTRICTED (BY ACQUISITION)	
TEMPORARY LIMITED EASEMENT		NO ACCESS (BY STATUTORY AUTHORITY)	
PERMANENT LIMITED EASEMENT		SECTION LINE	
R/W BOUNDARY POINT	PRW000	QUARTER LINE	
PARCEL NUMBER	102	SIXTEENTH LINE	
UTILITY NUMBER	92	EXISTING CENTERLINE	
SIGN NUMBER (OFF PREMISE)	21-1	PROPOSED REFERENCE LINE	
BUILDING		PARALLEL OFFSET	

GN

0 100 200

GRAPHIC SCALE, FEET

CONVENTIONAL UTILITY SYMBOLS

WATER	W	
GAS	G	
COMMUNICATION	C	
ELECTRIC OVERHEAD	OH	
ELECTRIC UNDERGROUND	E	
FIBER OPTIC	FO	
SANITARY SEWER	SAN	
STORM SEWER	SS	
	NON COMPENSABLE	COMPENSABLE
POWER POLE		
TELEPHONE POLE		
TELEPHONE PEDESTAL		
ELECTRIC TOWER		

NOTES:

POSITIONS SHOWN ON THIS PLAT ARE WISCONSIN COUNTY COORDINATES, WINNEBAGO COUNTY, NAD 83 (91) IN U.S. SURVEY FEET. VALUES SHOWN ARE GRID COORDINATES, GRID BEARINGS, AND GRID DISTANCES. GRID DISTANCES MAY BE USED AS GROUND DISTANCES.

RIGHT OF WAY BOUNDARIES ARE DEFINED WITH COURSES OF THE PERIMETER OF THE HIGHWAY LANDS AND ARE REFERENCED TO THE US PUBLIC LAND SURVEY OR OTHER SURVEYS OF PUBLIC RECORD.

DIMENSIONING FOR THE NEW RIGHT-OF-WAY IS MEASURED ALONG AND PERPENDICULAR TO NEW REFERENCE LINES.

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 AND SHOULD NOT BE USED AS A SUBSTITUTE FOR AN ACCURATE FIELD SURVEY.

A TEMPORARY LIMITED EASEMENT (TLE) IS A RIGHT FOR CONSTRUCTION PURPOSES, AS DEFINED HEREIN, INCLUDING THE RIGHT TO OPERATE NECESSARY EQUIPMENT THEREON AND THE RIGHT OF INGRESS AND EGRESS, AS LONG 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 TLEs EXPIRE AT THE COMPLETION OF THE CONSTRUCTION PROJECT FOR WHICH THIS INSTRUMENT IS GIVEN.

RIGHT OF WAY MONUMENTS ARE TYPE 2 MONUMENTS (TYPICALLY 1" X 24" IRON PIPE) AND WILL BE PLACED PRIOR TO THE COMPLETION OF THE PROJECT.

EXISTING RIGHT OF WAY WAS REESTABLISHED UNDER PROJECT: TRANSPORTATION PROJECT PLAT NO. 1517-07-00-4.12, DOCUMENT NO. 1590517, FILED IN FILE 1, TPP PG 202 & 1517-07-00-4.13, DOCUMENT NO. 1590518, FILED IN FILE 1, TPP PG 203.

EXISTING ACCESS CONTROL WAS ACQUIRED UNDER PROJECT: 4685-04-00.
STH 441 IN WINNEBAGO COUNTY WAS DESIGNATED AS A FREEWAY UNDER SECTION 84.295 OF THE WISCONSIN STATE STATUTES BY THE WISCONSIN DEPARTMENT OF TRANSPORTATION ON JUNE 26, 1986.

THE REFERENCE LINE SHOWN ON THIS PLAT MAY NOT BE THE SAME AS THE REFERENCE LINE SHOWN ON THE CONSTRUCTION PLAN.

STATION OFFSET TABLE APPLETON ROAD/STH 47

POINT	STATION	OFFSET		X	Y
TLE1997	128+35.72	70.02	L	822843.625	552930.851
TLE1999	126+13.88	87.89	L	822826.745	552708.931
TLE2000	126+13.95	104.58	L	822810.060	552708.928
TLE2001	125+77.67	106.39	L	822808.415	552672.640
TLE2002	125+76.40	80.88	L	822833.926	552671.483
PRW2091	127+62.78	65.87	L	822848.107	552857.928
PRW2092	127+62.78	71.56	L	822842.412	552857.904
PRW2093	127+80.78	71.43	L	822842.469	552875.904
PRW2094	127+80.78	64.42	L	822849.477	552875.934
PRW2095	128+35.51	50.00	L	822863.650	552930.729
PRW2096	128+35.58	56.02	L	822857.633	552930.766
TLE2097	128+63.83	50.00	L	822863.523	552959.045
TLE2098	128+68.63	58.00	L	822855.502	552963.811
TLE2099	130+15.65	58.00	L	822854.846	553110.831
ERW7210	130+60.82	51.30	L	822861.349	553156.030
ERW7211	128+35.62	60.00	L	822853.649	552930.790
ERW7400	130+59.51	50.00	L	822862.650	553154.727

COURSE TABLE NEW RIGHT OF WAY

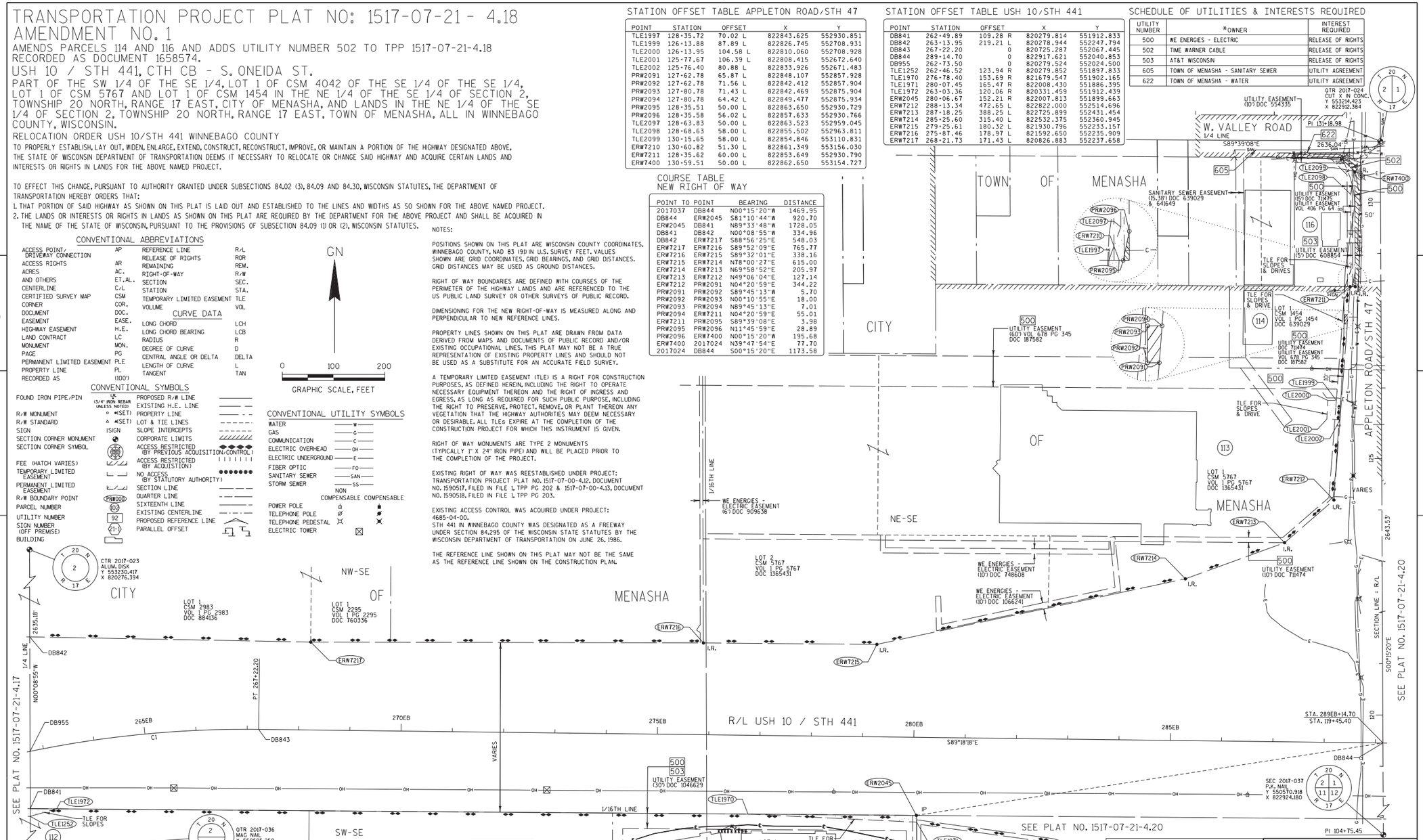
POINT TO POINT		BEARING	DISTANCE
2017037	DB844	N00°15'20"W	1469.95
DB844	ERW2045	S81°10'44"W	920.70
ERW2045	DB841	N89°33'48"W	1728.05
DB841	DB842	N00°08'55"W	334.96
DB842	ERW7217	S88°56'25"E	548.03
ERW7217	ERW7216	S89°52'09"E	765.77
ERW7216	ERW7215	S89°32'01"E	338.16
ERW7215	ERW7214	N78°00'27"E	615.00
ERW7214	ERW7213	N69°58'52"E	205.97
ERW7213	ERW7212	N49°06'04"E	127.14
ERW7212	PRW2091	N04°20'59"E	344.22
PRW2091	PRW2092	S89°45'13"W	5.70
PRW2092	PRW2093	N00°10'55"E	18.00
PRW2093	PRW2094	N89°45'13"E	7.01
PRW2094	ERW7211	N04°20'59"E	55.01
ERW7211	PRW2095	S89°39'08"E	3.98
PRW2095	PRW2096	N11°45'59"E	28.89
PRW2096	ERW7400	N00°15'20"W	195.68
ERW7400	2017024	N39°47'54"E	77.70
2017024	DB844	S00°15'20"E	1173.58

STATION OFFSET TABLE USH 10/STH 441

POINT	STATION	OFFSET		X	Y
DB841	262+49.89	109.28	R	820279.814	551912.833
DB842	263+13.95	219.21	L	820278.944	552247.794
DB843	267+22.20	0		820725.287	552067.445
DB844	289+14.70	0		822917.621	552040.853
DB955	262+73.50	0		820279.524	552024.500
TLE1252	262+46.52	123.94	R	820279.852	551897.833
TLE1970	276+78.40	153.69	R	821679.547	551902.165
TLE1971	280+07.45	165.47	R	822008.430	551886.395
TLE1972	263+03.36	120.06	R	820331.459	551912.439
ERW2045	280+06.67	152.21	R	822007.813	551899.663
ERW7212	288+13.34	472.65	L	822822.000	552514.696
ERW7213	287+18.25	388.25	L	822725.899	552431.454
ERW7214	285+25.60	315.40	L	822532.375	552360.945
ERW7215	279+25.61	180.32	L	821930.796	552233.157
ERW7216	275+87.46	178.97	L	821592.650	552235.909
ERW7217	268+21.73	171.43	L	820826.883	552237.658

SCHEDULE OF UTILITIES & INTERESTS REQUIRED

UTILITY NUMBER	*OWNER	INTEREST REQUIRED
500	WE ENERGIES - ELECTRIC	RELEASE OF RIGHTS
502	TIME WARNER CABLE	RELEASE OF RIGHTS
503	AT&T WISCONSIN	RELEASE OF RIGHTS
605	TOWN OF MENASHA - SANITARY SEWER	UTILITY AGREEMENT
622	TOWN OF MENASHA - WATER	UTILITY AGREEMENT



CURVE TABLE

CURVE	CH DISTANCE	CH BEARING	RADIUS	ARC LENGTH	PI COORDINATES
C1	447.83'	N84°29'50"E	2074.00'	448.70'	X 820500.074 Y 552070.177

SCHEDULE OF LANDS & INTERESTS REQUIRED

PARCEL NUMBER	*OWNER	INTEREST REQUIRED	NEW R/W ACRES	P.L.E. ACRES	T.L.E. ACRES
112	GEORGE BANTA PUBLISHING, INC.	TLE	-	-	0.009
113	GOODWILL INDUSTRIES DEVELOPMENT CORP.	TLE	-	-	0.036
114	GENE A. PATZNER	FEE/TLE	0.003	-	0.034
115	BACH AND MILLER MANAGEMENT, INC.	TLE	-	-	0.050
116	ALAN E. & PAMELA S. SCHMEISER	FEE/TLE	0.002	-	0.040

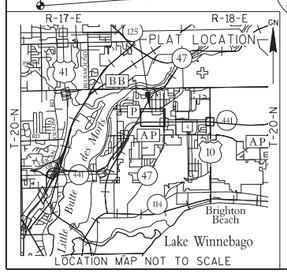
*OWNER'S NAMES ARE SHOWN FOR REFERENCE PURPOSES ONLY, AND ARE SUBJECT TO CHANGE PRIOR TO TRANSFER OF LAND INTERESTS TO THE WISCONSIN DEPARTMENT OF TRANSPORTATION.

COURSE TABLE USH 10/STH 441 REFERENCE LINE

POINT TO POINT		BEARING	DISTANCE
2017036	DB955	N00°08'55"W	1429.26
DB955	DB843	CURVE C1	
DB843	DB844	S89°18'18"E	2192.49
DB844	2017037	S00°15'20"E	1469.95

RL USH-10/STH-441
PI STA. 256+56.08
Y : 552084.530
X : 819316.813
DELTA = 68°21'56"
D = 2°45'45"
T = 1408.58
L = 2474.71
R = 2074.00

LOCATION MAP NOT TO SCALE



KAPUR & ASSOCIATES, INC.
CONSULTING ENGINEERS
MILWAUKEE, WISCONSIN
414.351.6668

I, GARY R. SPLINTER, REGISTERED LAND SURVEYOR, HEREBY CERTIFY THAT IN FULL COMPLIANCE WITH THE PROVISIONS OF SECTION 84.095 OF THE WISCONSIN STATUTES AND UNDER THE DIRECTIONS OF THE WISCONSIN DEPARTMENT OF TRANSPORTATION, I HAVE SURVEYED TRANSPORTATION PROJECT PLAT 1517-07-21- 4.18 AND THAT SUCH PLAT CORRECTLY REPRESENTS ALL EXTERIOR BOUNDARIES OF THE SURVEYED LAND.

WISCONSIN GARY R. SPLINTER S-2239 OAK CREEK, WI LAND SURVEYOR

SIGNATURE _____ DATE May 22, 2014
GARY R. SPLINTER, R.L.S. S-2239

THIS PLAT AND RELOCATION ORDER ARE APPROVED FOR THE WISCONSIN DEPARTMENT OF TRANSPORTATION

SIGNATURE Curt Van Erem DATE 05/22/14
PRINT CURT VAN EREM

RESERVED FOR REGISTER OF DEEDS
PROJECT NUMBER 1517-07-21-4.18
AMENDMENT NO: 1

ACCEPTED FOR RECORDING AND FILING IN THE OFFICE OF THE REGISTER OF DEEDS IN WINNEBAGO COUNTY, WISCONSIN AT 12:00PM ON May 30 2014 AS DOCUMENT # 1664504 AND FILED IN File 1 OF TPP Pg 248

Julie Pagel
SIGNATURE OF REGISTER OF DEEDS

1664504

FILE NAME : S:\DOT\DOT_NE\120012-Tri County Freeway\Plat\Plats\040418_RP.dgn
APPRAISAL PLAT DATE :
PLOT DATE : 5/21/2014
PLOT BY : g_splinter
PLOT NAME :
PLOT SCALE : 1:100

SEE AMENDMENT

TRANSPORTATION PROJECT PLAT NO: 1517-07-21 - 4.18

USH 10 / STH 441, CTH CB - S. ONEIDA ST.

PART OF THE SW 1/4 OF THE SE 1/4, LOT 1 OF CSM 4042 OF THE SE 1/4 OF THE SE 1/4, LOT 1 OF CSM 5767 AND LOT 1 OF CSM 1454 IN THE NE 1/4 OF THE SE 1/4 OF SECTION 2, TOWNSHIP 20 NORTH, RANGE 17 EAST, CITY OF MENASHA, AND LANDS IN THE NE 1/4 OF THE SE 1/4 OF SECTION 2, TOWNSHIP 20 NORTH, RANGE 17 EAST, TOWN OF MENASHA, ALL IN WINNEBAGO COUNTY, WISCONSIN.

RELOCATION ORDER USH 10/STH 441 WINNEBAGO 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 NAMED PROJECT.

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STATION OFFSET TABLE APPLETON ROAD/STH 47

POINT	STATION	OFFSET		X	Y
TLE1475	128+35.67	65.00	L	822848.649	552930.820
TLE1477	130+64.56	55.00	L	822857.628	553159.756
TLE1997	128+35.72	70.02	L	822843.625	552930.851
TLE1999	126+13.88	87.89	L	822826.745	552708.931
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ERW7211	128+35.62	60.00	L	822853.649	552930.790
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SCHEDULE OF UTILITIES & INTERESTS REQUIRED

UTILITY NUMBER	*OWNER	INTEREST REQUIRED
500	WE ENERGIES - ELECTRIC	RELEASE OF RIGHTS
503	AT&T WISCONSIN	RELEASE OF RIGHTS
605	TOWN OF MENASHA - SANITARY SEWER	UTILITY AGREEMENT
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CONVENTIONAL ABBREVIATIONS

ACCESS POINT/ DRIVEWAY CONNECTION	AP	REFERENCE LINE	R/L
ACCESS RIGHTS	AR	RELEASE OF RIGHTS	ROR
ACRES	AC.	REMAINING	REM.
AND OTHERS	ET.AL.	RIGHT-OF-WAY	R/W
CENTERLINE	C/L	SECTION	SEC.
CERTIFIED SURVEY MAP	CSM	STATION	STA.
CORNER	COR.	TEMPORARY LIMITED EASEMENT	TLE
DOCUMENT	DOC.	VOLUME	VOL
EASEMENT	EASE.	**CURVE DATA**	
HIGHWAY EASEMENT	H.E.	LONG CHORD	LCH
LAND CONTRACT	LC	LONG CHORD BEARING	LCB
MONUMENT	MON.	RADIUS	R
PAGE	PG	DEGREE OF CURVE	D
PERMANENT LIMITED EASEMENT	PLE	CENTRAL ANGLE OR DELTA	DELTA
PROPERTY LINE	PL	LENGTH OF CURVE	L
RECORDED AS	(100')	TANGENT	TAN

CONVENTIONAL SYMBOLS

FOUND IRON PIPE/PIN — (3/4" IRON REBAR UNLESS NOTED)
R/W MONUMENT — ●SET
R/W STANDARD — ▲SET
SIGN — ISIGN
SECTION CORNER MONUMENT
SECTION CORNER SYMBOL — (888)
FEE (HATCH VARIES)
TEMPORARY LIMITED EASEMENT
PERMANENT LIMITED EASEMENT
R/W BOUNDARY POINT — PRP0000
PARCEL NUMBER — 02
UTILITY NUMBER — 92
SIGN NUMBER (OFF PREMISE) — 21-
BUILDING

PROPOSED R/W LINE
EXISTING H.E. LINE
PROPERTY LINE
LOT & TIE LINES
SLOPE INTERCEPTS
CORPORATE LIMITS
ACCESS RESTRICTED (BY PREVIOUS ACQUISITION/CONTROL)
ACCESS RESTRICTED (BY ACQUISITION)
NO ACCESS (BY STATUTORY AUTHORITY)
SECTION LINE
QUARTER LINE
SIXTEENTH LINE
EXISTING CENTERLINE
PROPOSED REFERENCE LINE
PARALLEL OFFSET

GN

0 100 200
GRAPHIC SCALE, FEET

CONVENTIONAL UTILITY SYMBOLS

		NON COMPENSABLE	COMPENSABLE
WATER	W		
GAS	G		
COMMUNICATION	C		
ELECTRIC OVERHEAD	OH		
ELECTRIC UNDERGROUND	E		
FIBER OPTIC	FO		
SANITARY SEWER	SAN		
STORM SEWER	SS		
POWER POLE			
TELEPHONE POLE			
TELEPHONE PEDESTAL			
ELECTRIC TOWER			

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DIMENSIONING FOR THE NEW RIGHT-OF-WAY IS MEASURED ALONG AND PERPENDICULAR TO NEW REFERENCE LINES.

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 AND SHOULD NOT BE USED AS A SUBSTITUTE FOR AN ACCURATE FIELD SURVEY.

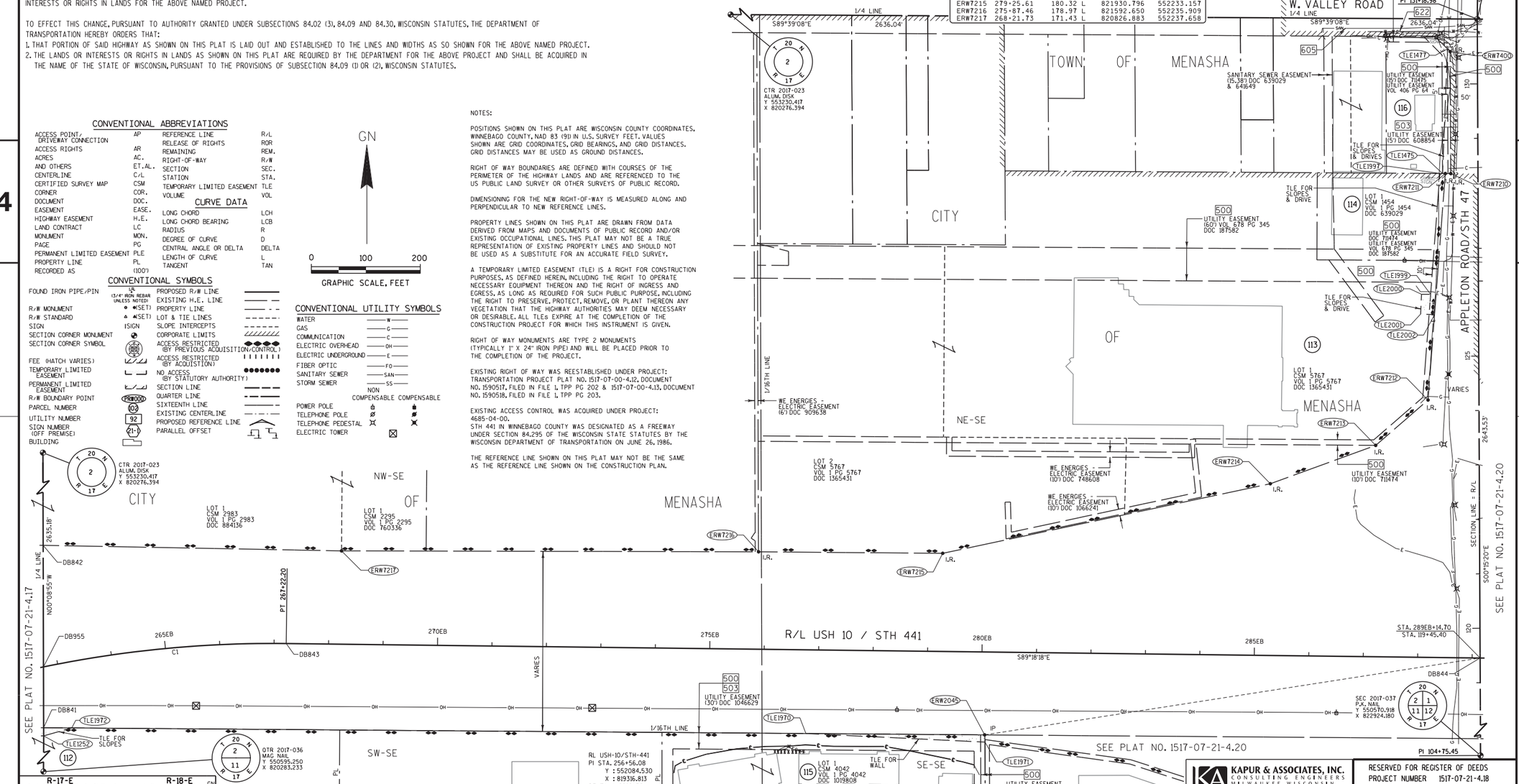
A TEMPORARY LIMITED EASEMENT (TLE) IS A RIGHT FOR CONSTRUCTION PURPOSES, AS DEFINED HEREIN, INCLUDING THE RIGHT TO OPERATE NECESSARY EQUIPMENT THEREON AND THE RIGHT OF INGRESS AND EGRESS, AS LONG AS REQUIRED FOR SUCH PUBLIC PURPOSE, INCLUDING THE RIGHT TO PRESERVE, PROTECT, REMOVE, OR PLANT THEREON ANY VEGETATION THAT THE HIGHWAY AUTHORITIES MAY DEEM NECESSARY OR DESIRABLE. ALL TLEs EXPIRE AT THE COMPLETION OF THE CONSTRUCTION PROJECT FOR WHICH THIS INSTRUMENT IS GIVEN.

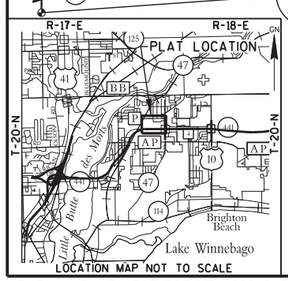
RIGHT OF WAY MONUMENTS ARE TYPE 2 MONUMENTS (TYPICALLY 1" X 24" IRON PIPE) AND WILL BE PLACED PRIOR TO THE COMPLETION OF THE PROJECT.

EXISTING RIGHT OF WAY WAS REESTABLISHED UNDER PROJECT: TRANSPORTATION PROJECT PLAT NO. 1517-07-00-4.12, DOCUMENT NO. 1590517, FILED IN FILE 1, TPP PG 202 & 1517-07-00-4.13, DOCUMENT NO. 1590518, FILED IN FILE 1, TPP PG 203.

EXISTING ACCESS CONTROL WAS ACQUIRED UNDER PROJECT: 4685-04-00.
STH 441 IN WINNEBAGO COUNTY WAS DESIGNATED AS A FREEWAY UNDER SECTION 84.295 OF THE WISCONSIN STATE STATUTES BY THE WISCONSIN DEPARTMENT OF TRANSPORTATION ON JUNE 26, 1986.

THE REFERENCE LINE SHOWN ON THIS PLAT MAY NOT BE THE SAME AS THE REFERENCE LINE SHOWN ON THE CONSTRUCTION PLAN.





CURVE TABLE

CURVE	CH DISTANCE	CH BEARING	RADIUS	ARC LENGTH	PI COORDINATES
C1	447.83'	N84°29'50"E	2074.00'	448.70'	X 820500.074 Y 552070.177

SCHEDULE OF LANDS & INTERESTS REQUIRED

PARCEL NUMBER	*OWNER	INTEREST REQUIRED	NEW R/W ACRES	P.L.E. ACRES	T.L.E. ACRES
112	GEORGE BANTA PUBLISHING, INC.	TLE	-	-	0.009
113	GOODWILL INDUSTRIES DEVELOPMENT CORP.	TLE	-	-	0.036
114	GENE A. PATZNER	TLE	-	-	0.037
115	BACH AND MILLER MANAGEMENT, INC.	TLE	-	-	0.050
116	ALAN E. & PAMELA S. SCHMEISER	TLE	-	-	0.038

*OWNER'S NAMES ARE SHOWN FOR REFERENCE PURPOSES ONLY, AND ARE SUBJECT TO CHANGE PRIOR TO TRANSFER OF LAND INTERESTS TO THE WISCONSIN DEPARTMENT OF TRANSPORTATION.

COURSE TABLE USH 10/STH 441 REFERENCE LINE

POINT TO POINT		BEARING	DISTANCE
2017036	DB955	N00°08'55"W	1429.26
DB955	DB843	CURVE C1	
DB843	DB844	S89°18'18"E	2192.49
DB844	2017037	S00°15'20"E	1469.95

COURSE TABLE NEW RIGHT OF WAY

POINT TO POINT		BEARING	DISTANCE
2017037	DB844	N00°15'20"W	1469.95
DB844	ERW2045	S81°10'44"W	920.70
ERW2045	DB841	N89°33'48"W	1728.05
DB841	DB842	N00°08'55"W	334.96
DB842	ERW7217	S88°56'25"E	548.03
ERW7217	ERW7216	S89°52'09"E	765.77
ERW7216	ERW7215	S89°32'01"E	338.16
ERW7215	ERW7214	N78°00'27"E	615.00
ERW7214	ERW7213	N69°58'52"E	205.97
ERW7213	ERW7212	N49°06'04"E	127.14
ERW7212	ERW7211	N04°20'59"E	417.30
ERW7211	ERW7210	S89°39'08"E	10.00
ERW7210	ERW7400	N00°15'20"W	224.00
ERW7400	2017024	N39°47'54"E	77.70
2017024	DB844	S00°15'20"E	1173.58

I, GARY R. SPLINTER, REGISTERED LAND SURVEYOR, HEREBY CERTIFY THAT IN FULL COMPLIANCE WITH THE PROVISIONS OF SECTION 84.095 OF THE WISCONSIN STATUTES AND UNDER THE DIRECTIONS OF THE WISCONSIN DEPARTMENT OF TRANSPORTATION, I HAVE SURVEYED TRANSPORTATION PROJECT PLAT 1517-07-21- 4.18 AND THAT SUCH PLAT CORRECTLY REPRESENTS ALL EXTERIOR BOUNDARIES OF THE SURVEYED LAND.

WISCONSIN GARY R. SPLINTER S-2239 OAK CREEK, WI LAND SURVEYOR

SIGNATURE _____ DATE 01/27/14
GARY R. SPLINTER, R.L.S. S-2239

THIS PLAT AND RELOCATION ORDER ARE APPROVED FOR THE WISCONSIN DEPARTMENT OF TRANSPORTATION

SIGNATURE _____ DATE 02/06/14
PRINT CURT VAN EREM

KAPUR & ASSOCIATES, INC. CONSULTING ENGINEERS MILWAUKEE, WISCONSIN 414.351.6668

RESERVED FOR REGISTER OF DEEDS
PROJECT NUMBER 1517-07-21-4.18
AMENDMENT NO:

ACCEPTED FOR RECORDING AND FILING IN THE OFFICE OF THE REGISTER OF DEEDS IN WINNEBAGO COUNTY, WISCONSIN AT 10:28 AM ON 2/25/2014 AS DOCUMENT # 1658574 AND FILED IN File 1 OF TPP 240

SIGNATURE OF REGISTER OF DEEDS

1658574

FILE NAME : S:\DOT\DOT_NE\120012-Tri County Freeway\Plat\Plats\040418_RP.dgn PLOT DATE : 2/6/2014 PLOT BY : g_splinter PLOT NAME : PLOT SCALE : 1:100
APPRAISAL PLAT DATE :

4.18

				BENCHMARKS	
NUMBER	STATION	NORTHING	EASTING	DESCRIPTION	ELEVATION
AP9	287EB+87.23 409.09' RT	551644.8	822785.2	CHISELED SQUARE ON THE NORTH CORNER OF AN ELECTRICAL PEDESTAL ON WEST SIDE OF APPLETON RD IN FRONT OF MATHEWS TIRE	786.26
AP10	290EB+53.71 1444.43' RT	550606.3	823039.1	NW TAG BOLT AT NE QUADRANT OF APPLETON RD AND MIDWAY RD	780.28
AP20	288EB+25.55 39.94' RT	552002	822828	3" DISC TOP OF SW PARAPET WALL STR# B-70-113, 10 EB OVER APPLETON RD	810.47
AP21	290EB+03.94 94.24' LT	552134	823008	3" DISC TOP OF NE PARAPET WALL STR# B-70-114, 10 WB OVER APPLETON RD	812.59
MW1	33EMEB+83.38 35.84' LT	550634	819868	NW TAG BOLT 1ST HYD WEST OF FATIMA ST ON THE NORTH SIDE OF MDWAY RD ; ACROSS FROM HOUSE #831	796.92
MW2	28EMEB+63.38 33.18' LT	550633	819348	NW TAG BOLT ON HYD BETWEEN MISSION ST & EARL ST ON NORTH SIDE OF SIDE OF MIDWAY; IN FRONT OF RR DONNELLEY SIGN @ 800 MIDWAY RD	766.56
MW3	12EMEB+94.38 12.29' LT	551190	817940	PK NAIL SET IT TOP CURB JOINT (CP 1002) +/- 400' EAST OF RACINE RD & MIDWAY RD INTERSECTION; NORTH MEDIAN CURB LINE	759.75
MW4	10EMEB+35.66 103.99' LT	551296	817680	NE TAG BOLT ON FIRE HYDRANT AT NE QUADRANT OF RACINE RD AND MIDWAY RD	763.31
MW10	20EMEB+53.30 69.65' RT	550744	818552	3" DISC TOP OF SE PARAPET WALL STR# B-70-111, 441 NB OVER MIDWAY	785.71
MW11	17EMEB+86.12 120.52' LT	551050.9	818436.4	3" DISC TOP OF NW PARAPET WALL STR# B-70-112, 441 SB OVER MIDWAY	792.23
MW12	247EB+62.09 397.21' LT	551465.1	818714.8	NW BOLT OF WEST SIGN BASE OF "UW FOX VALLEY" EXIT SIGN, 441 NB	777.67
MW13	251EB+61.24 489.26' LT	551885.6	818970.8	CHISELED SQUARE TOP NW CORNER OF INLET IN MEDIAN OF 441	776.85
MW14	257EB+35.10 297.32' LT	552114.4	819639.3	CHISELED SQUARE TOP MIDDLE OF INLET IN MEDIAN OF 441	773.24
MW15	260EB+04.27 159.13' LT	552103.3	819968	TOP SW BOLT OF SIGN #S-70-153, 441 MEDIAN	778.17
MW16	265EB+33.25 35.58' LT	552096.6	820553.7	TOP SW BOLT OF SIGN #S-70-18, 441 MEDIAN	782.54
MW17	267EB+53.05 59.98' RT	552007.1	820755.4	TOP BOLT ON NORTH LEG "GAS EXIT" SIGN	778.77
MW18	274EB+26.63 62.61' RT	551996.3	821428.9	TOP NE BOLT OF NORTH SIGN BASE OF "47 APPLETON RD" EXIT 290 SIGN	784.58
MW19	278EB+41.58 113.88' RT	551940	821843.2	CHISELED SQUARE SOUTH SIDE OF CONCRETE ATC TOWER BASE	785.04
MW20	281EB+79.65 183.98' RT	551865.8	822180.4	CHISELED SQUARE NW CORNER CONCRETE PAD FOR ELECTRIC PEDESTAL SW RAMP APPLETON RD	784.52
RA1	222EB+68.70 310.40' LT	549282	817577	NW TAG BOLT ON FIRE HYDRANT AT THE NW QUADRANT OF RACINE RD & GORDON ST AND NORTH OF BRIDGE OVER STH 441	761.71
RA10	233EB+00.63 825.88' LT	550306.9	817673.5	NE TAG BOLT ON FIRE HYDRANT AT THE INTERSECTION OF RACINE RD AND SANDLEWOOD ST	763.72
RA24	221EB+24.40 29.82' LT	548988.4	817687.6	SW BOLT EXISITNG SIGN STR #S-70-17, USH 10 MEDIAN 30' NE OF RACINE RD OVERPASS	749.12
RA25	226EB+72.25 4.19' LT	549388.3	818060	SW BOLT EXISITNG SIGN STR #S-70-155, USH 10 MEDIAN 600' NE OF RACINE RD OVERPASS	752.83
RA26	234EB+79.50 39.31' LT	550091.7	818446.8	SE CPRNER OF INLET, USH 10 MEDIAN, 650' SOUTH OF MIDWAY	761.22

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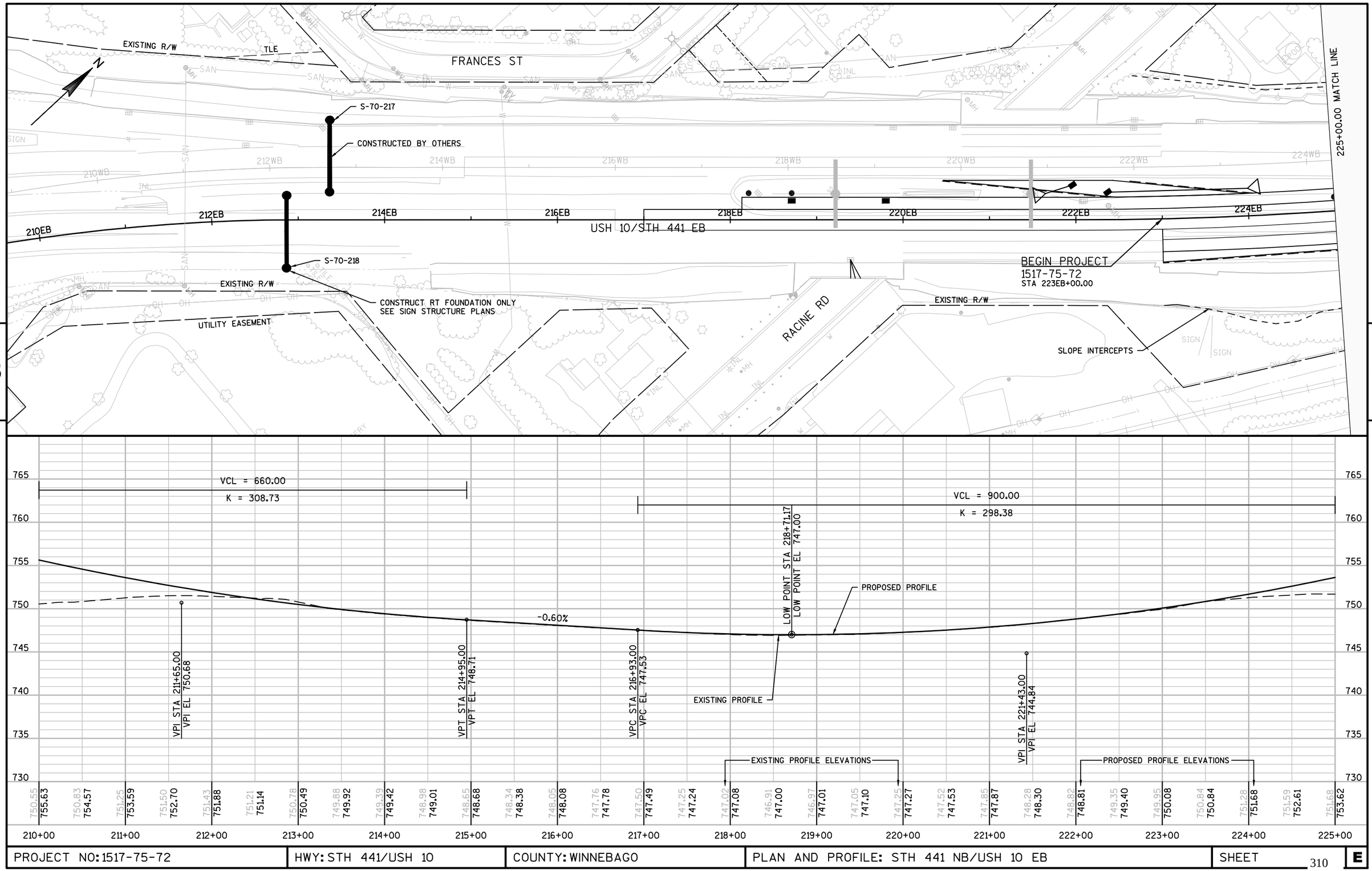
MW14
MW13
MW15
MW16
MW17
MW18
MW19
MW20
MW12
MW4
MW3
MW11
MW10
MW2
MW1
RA10
RA26
RA25
RA1
RA24
AP21
AP20
AP9
AP10

260WB
260EB
255MNW
255WB
255EB
255MNE
250MNW
250WB
250EB
250MNE
245MNW
245WB
245EB
245MNE
265WB
265EB
270WB
270EB
275WB
275EB
280WB
280EB
285WB
285EB
290WB
290EB
1275ASW
1280ASW
1285ASW
15EMWB
15EMEB
30EMWB
30EMEB
35EMWB
35EMEB
240MSW
240WB
240EB
240MSE
235MSW
235WB
235EB
235MSE
230MSW
230WB
230EB
230MSE
225MSW
225WB
225EB
220WB
220EB

PROJECT NO: 1517-75-72	HWY: STH 441/USH 10	COUNTY: WINNEBAGO	BENCHMARKS	SHEET 309	E



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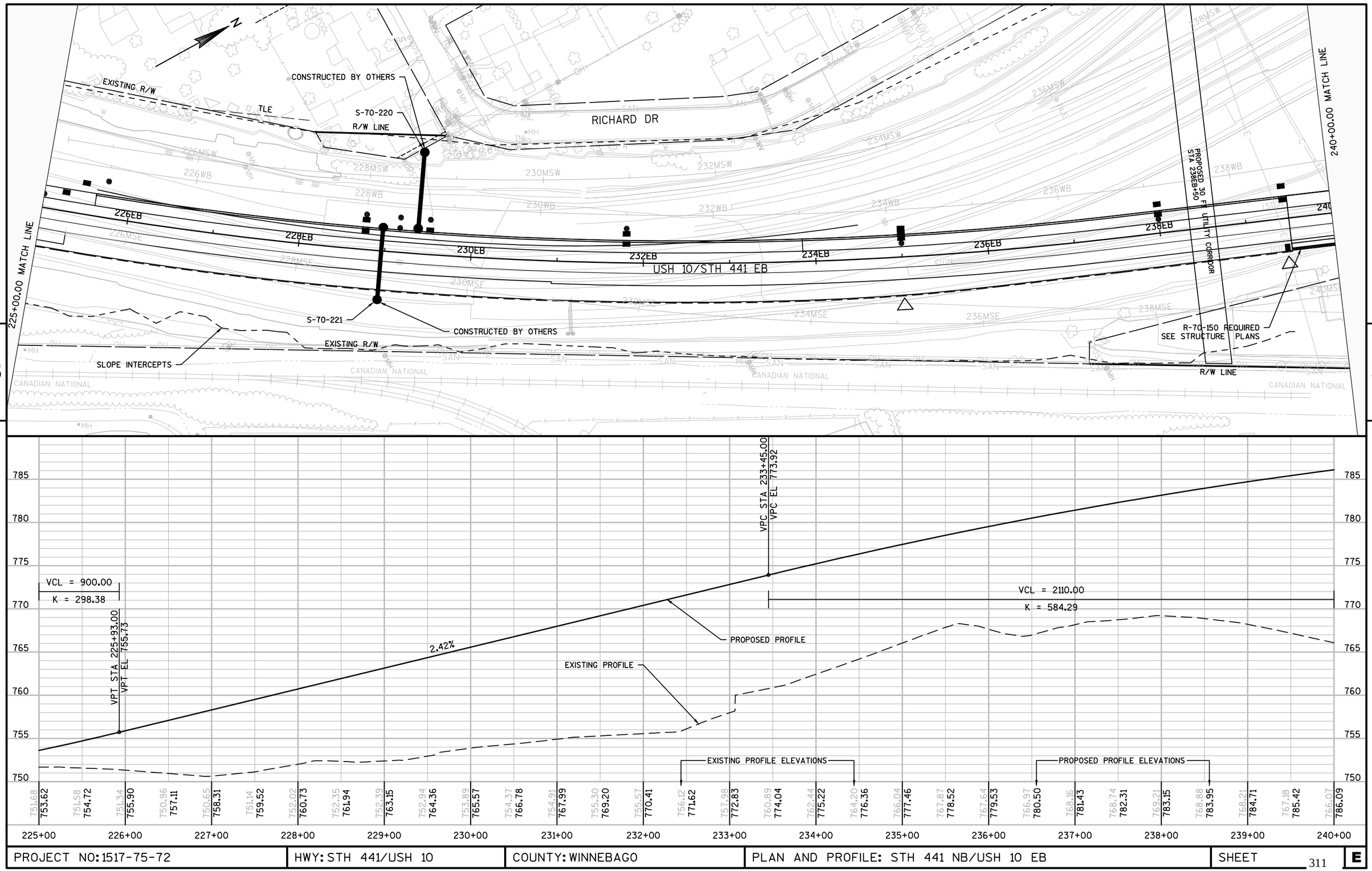
LAYOUT NAME - 050101-PP
PLOT DATE : 4/11/2017 9:25 AM PLOT BY : MARTENS, JOHN M PLOT NAME : PLOT SCALE : 1 IN:100 FT
WISDOT/CADDS SHEET 44



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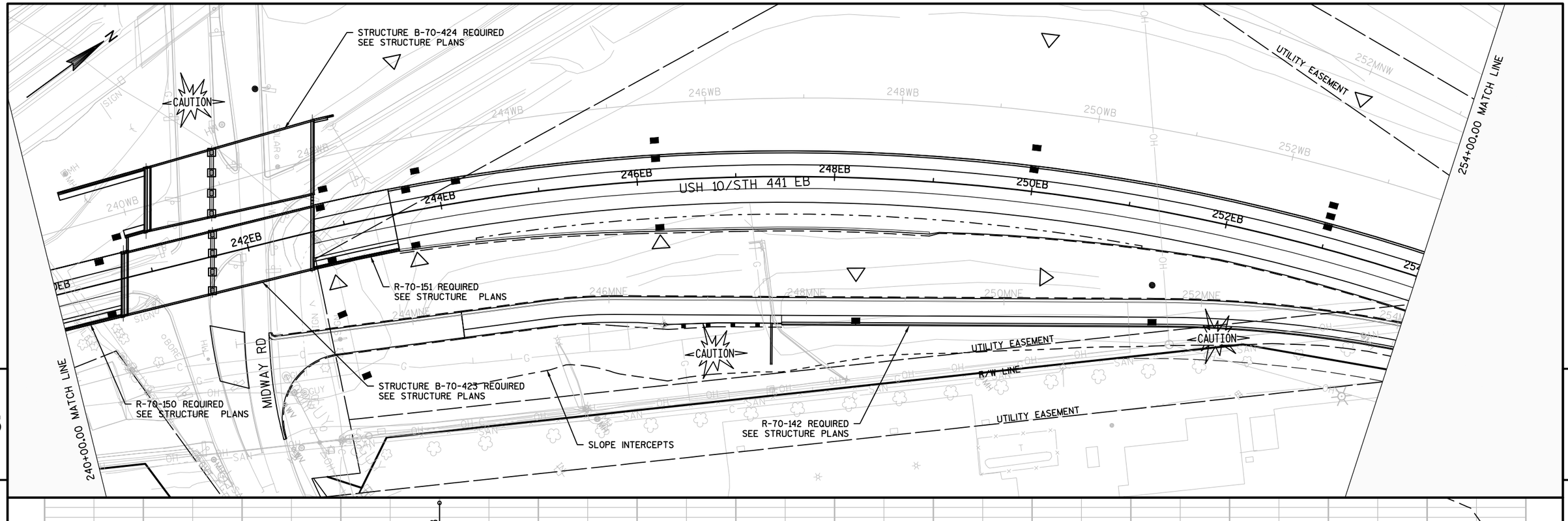

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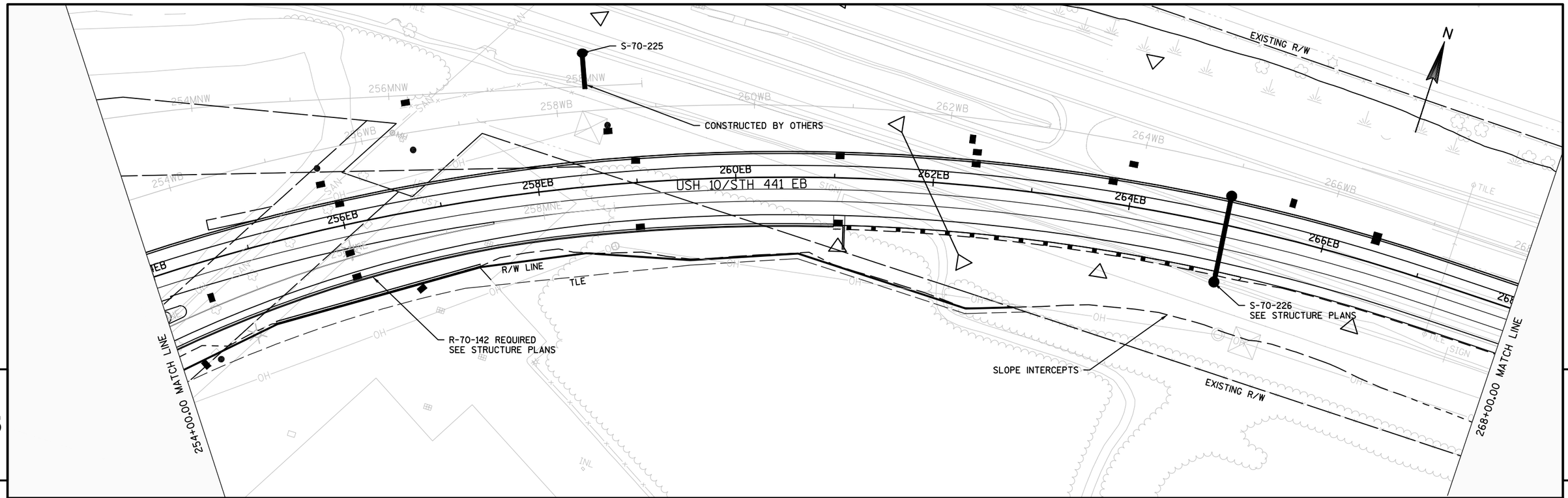

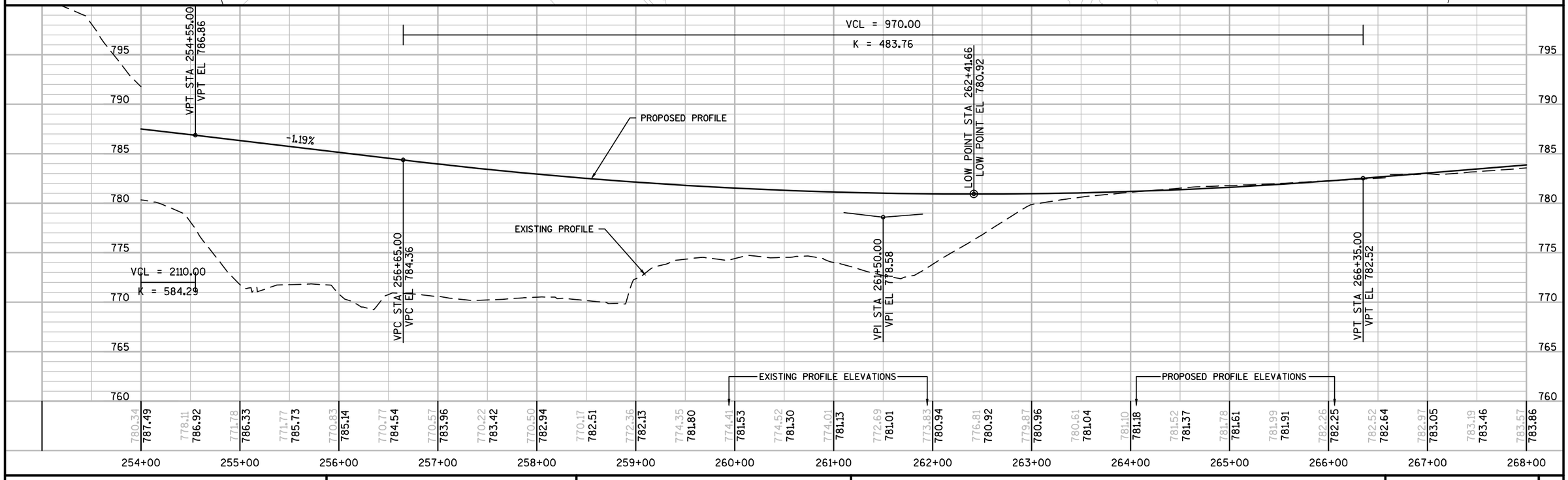

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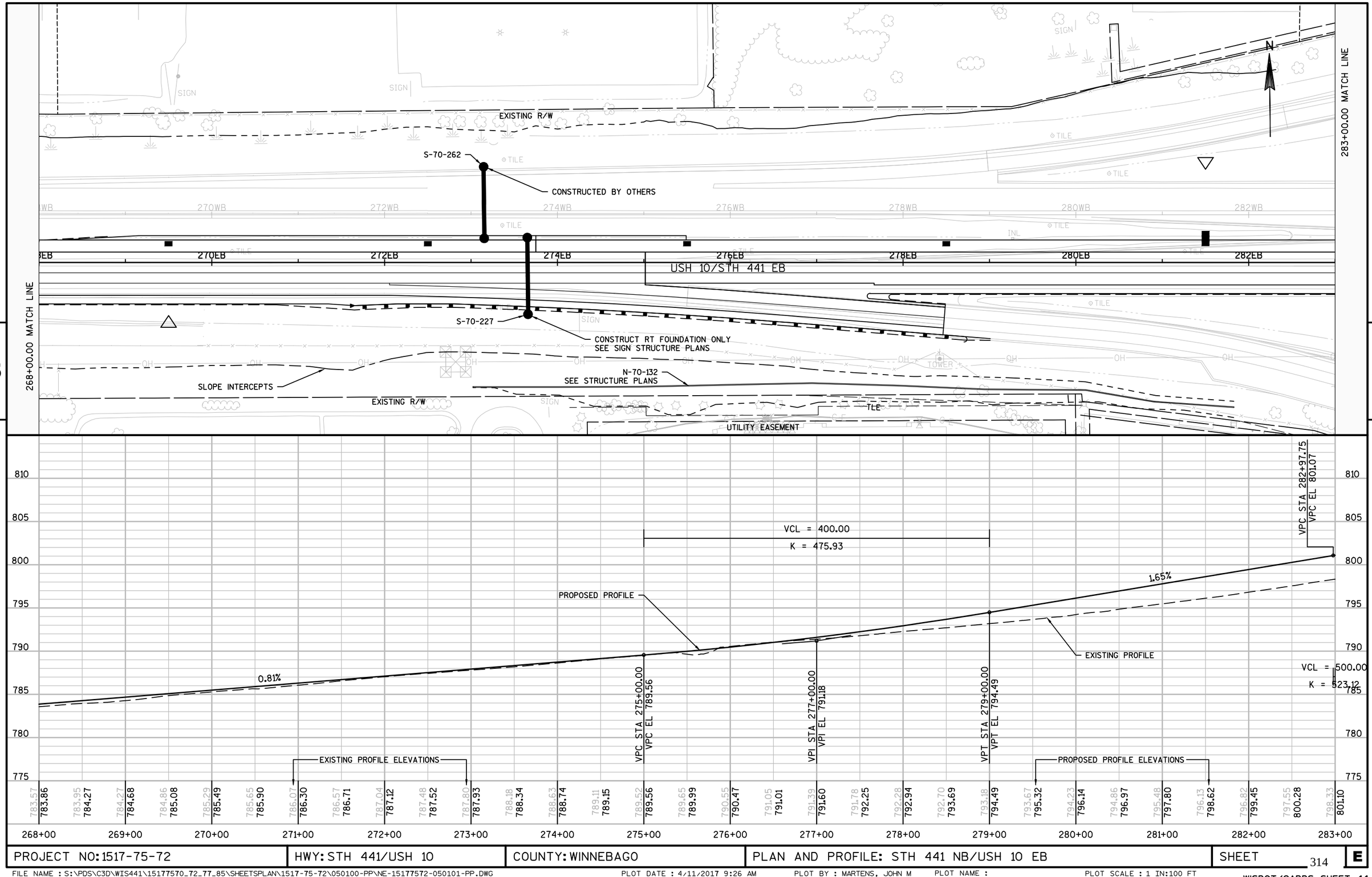

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PROJECT NO: 1517-75-72	HWY: STH 441/USH 10	COUNTY: WINNEBAGO	PLAN AND PROFILE: STH 441 NB/USH 10 EB	SHEET 314 E

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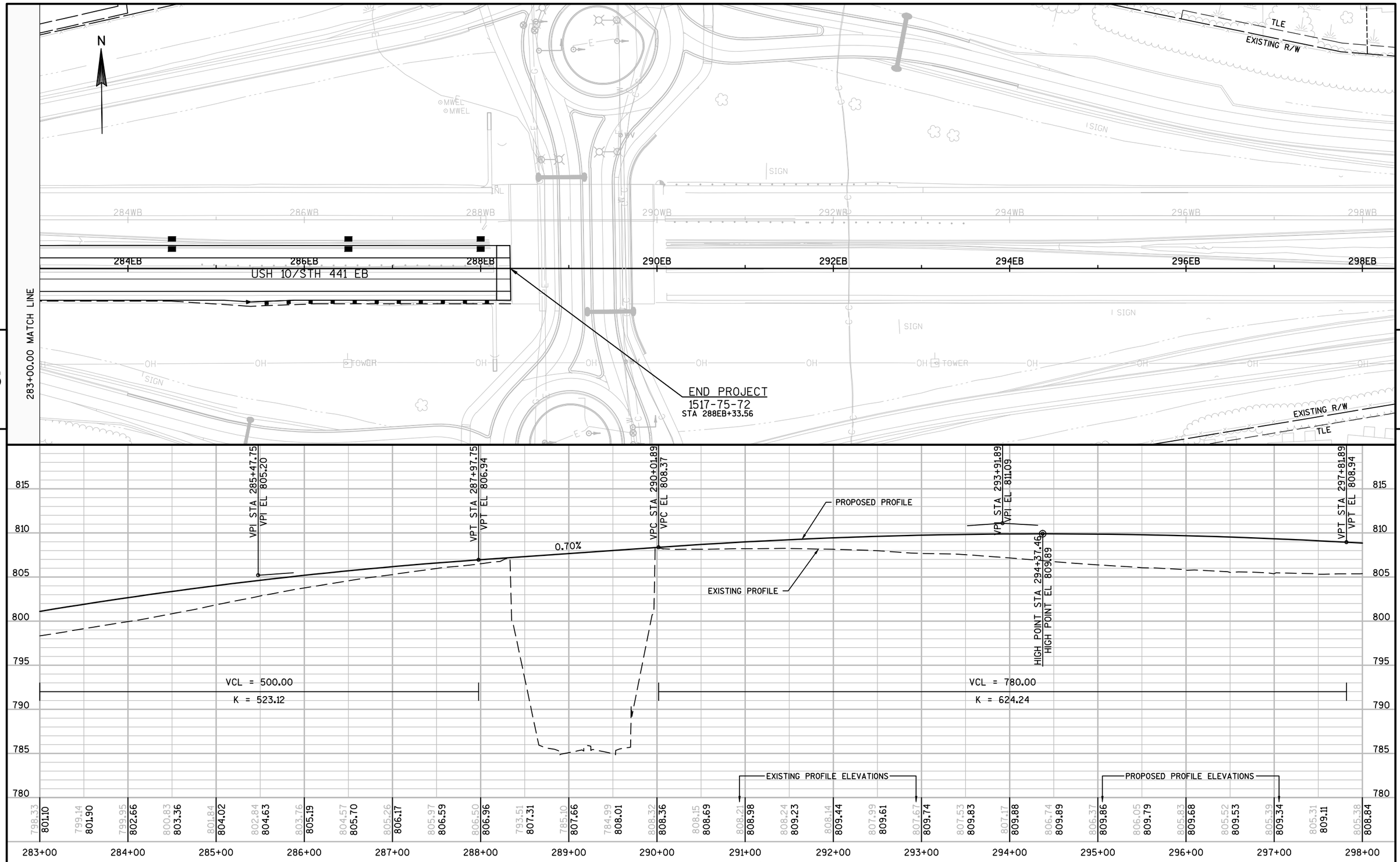
LAYOUT NAME - 050105-PP
PLOT DATE : 4/11/2017 9:26 AM
PLOT BY : MARTENS, JOHN M
PLOT NAME :
PLOT SCALE : 1 IN:100 FT
WISDOT/CADDS SHEET 44



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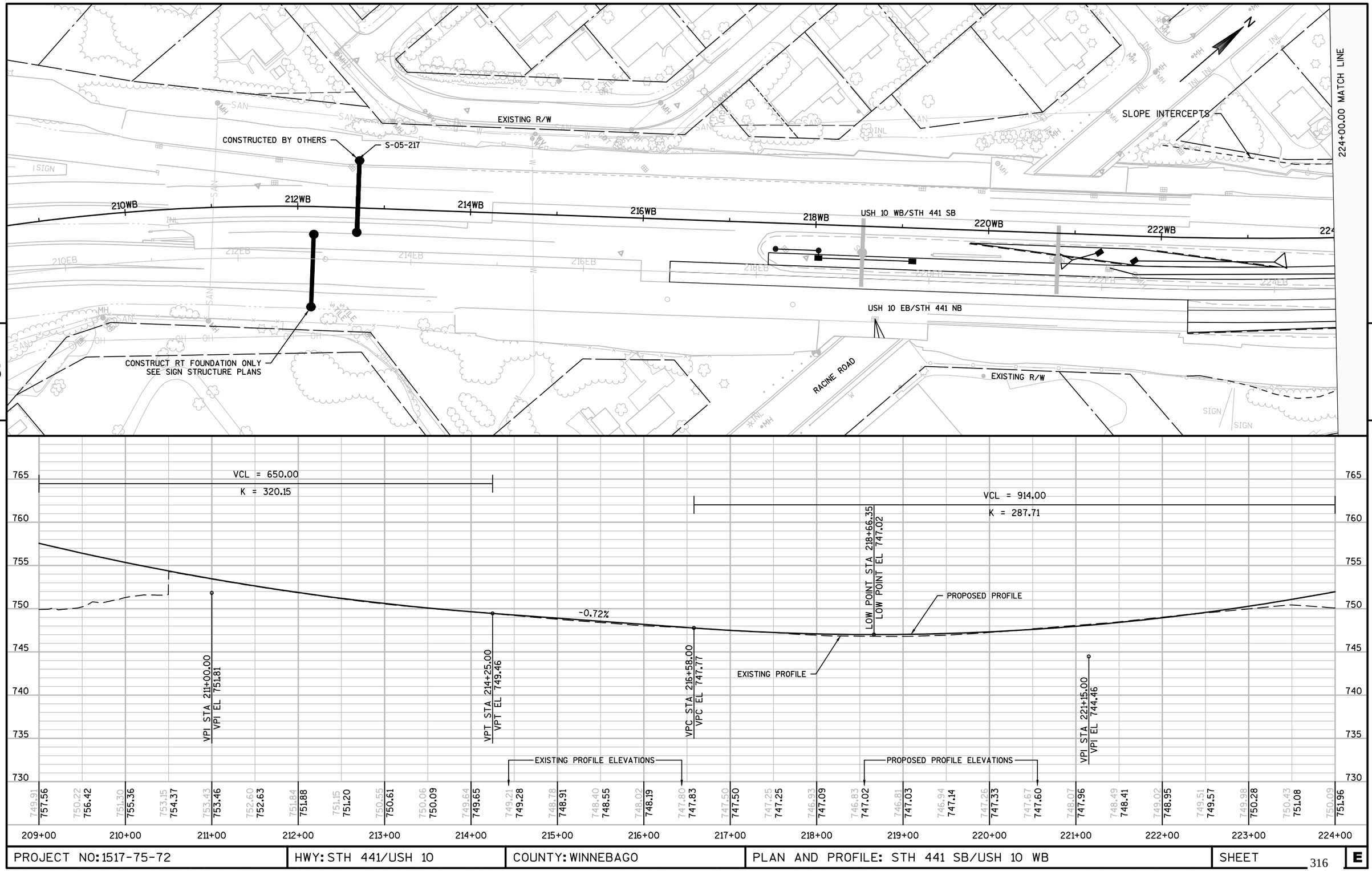

PROJECT NO: 1517-75-72	HWY: STH 441/USH 10	COUNTY: WINNEBAGO	PLAN AND PROFILE: STH 441 SB/USH 10 WB	SHEET 316 E

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LAYOUT NAME - 050111-PP
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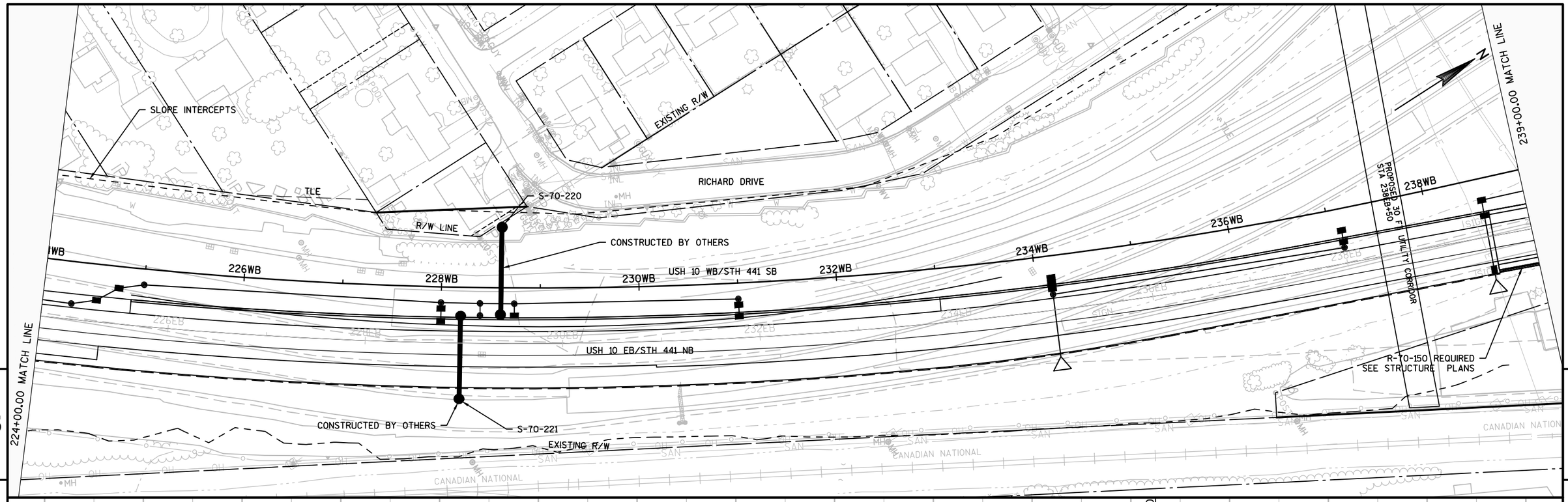
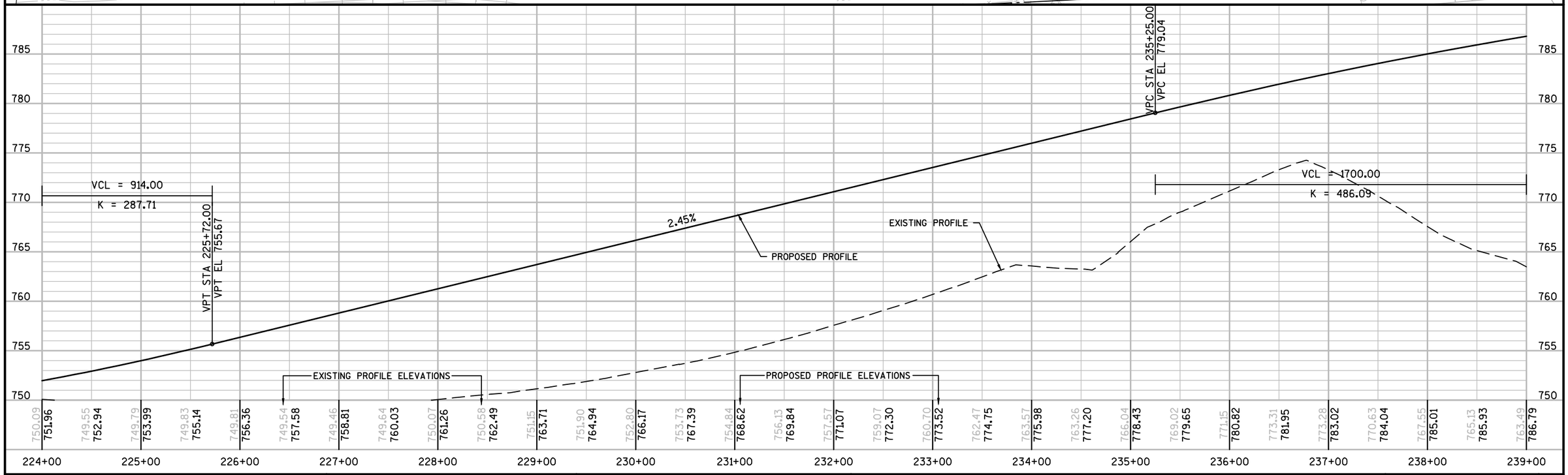
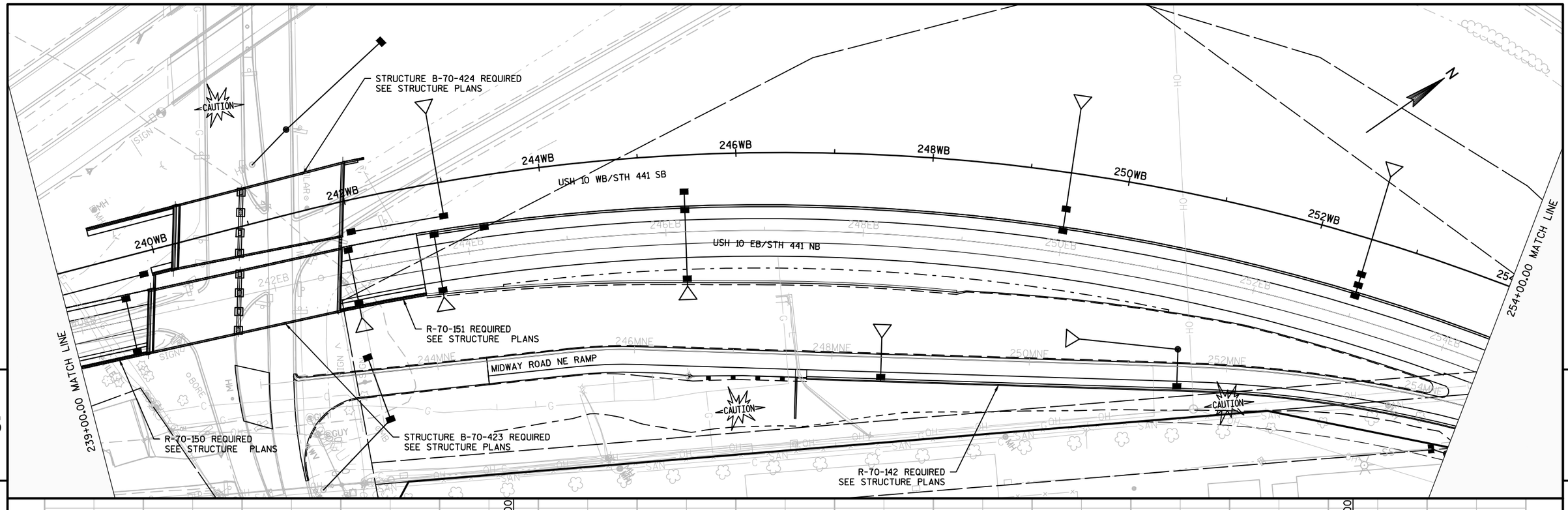
WISDOT/CADDS SHEET 44





PROJECT NO: 1517-75-72	HWY: STH 441/USH 10	COUNTY: WINNEBAGO	PLAN AND PROFILE: STH 441 SB/USH 10 WB	SHEET 317 E



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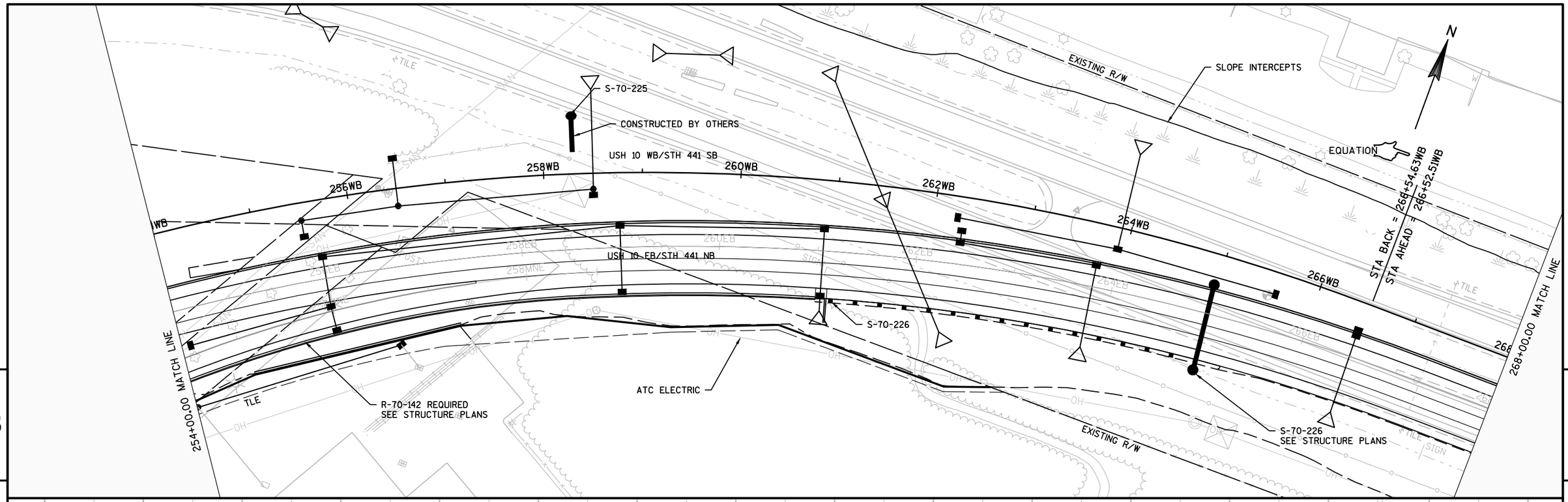

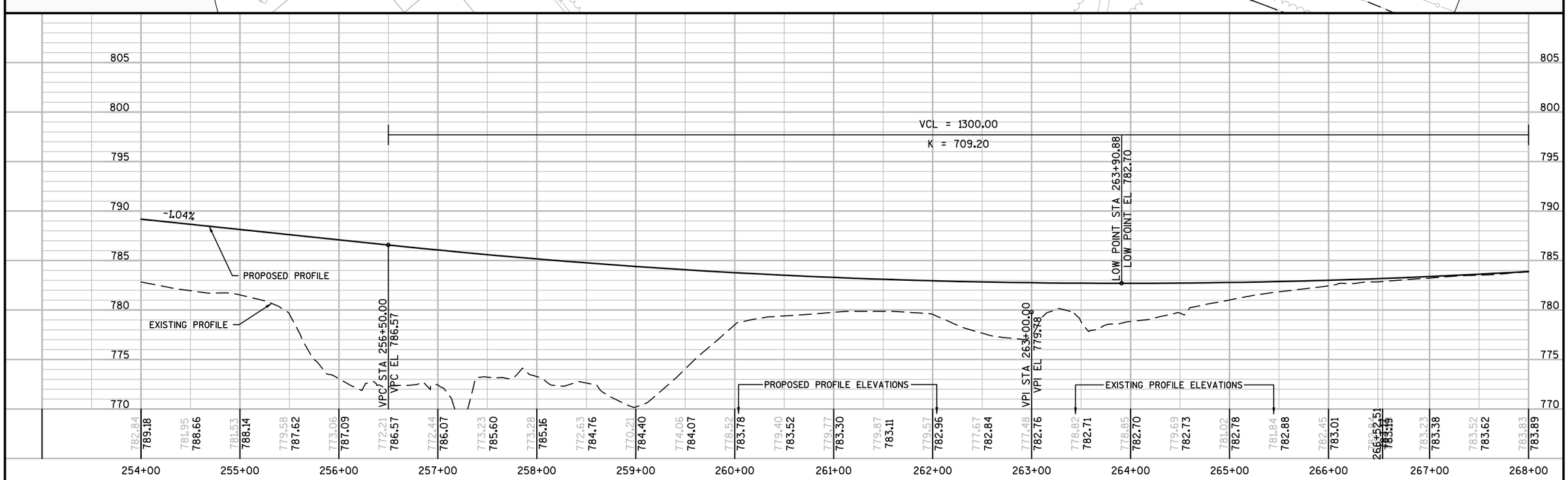

PROJECT NO: 1517-75-72	HWY: STH 441/USH 10	COUNTY: WINNEBAGO	PLAN AND PROFILE: STH 441 SB/USH 10 WB	SHEET 319 E

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LAYOUT NAME - 050114-PP

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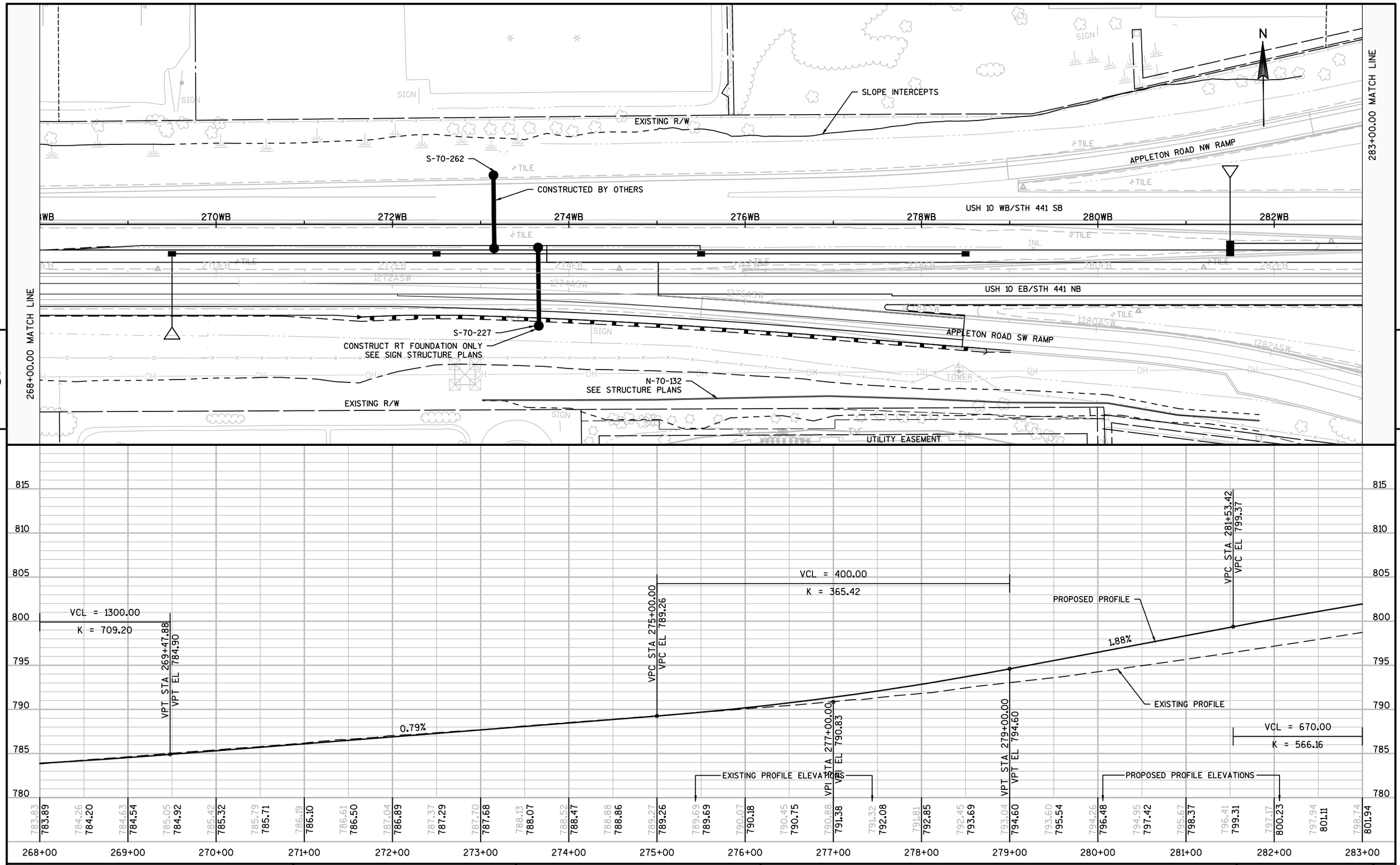
WISDOT/CADDS SHEET 44



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LAYOUT NAME - 050115-PP
PLOT DATE : 4/11/2017 9:29 AM PLOT BY : MARTENS, JOHN M PLOT NAME : PLOT SCALE : 1 IN:100 FT
WISDOT/CADDS SHEET 44

283+00.00 MATCH LINE

5

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284WB 286WB 288WB USH 10 WB/STH 441 SB 290WB 292WB 294WB 296WB 298WB

284EB 286EB 288EB USH 10 EB/STH 441 NB 290EB 292EB 294EB 296EB 298EB

SIGN SIGN SIGN SIGN SIGN

TOWER TOWER

MWEL MWEL

OH OH OH OH OH OH OH OH OH OH OH

SS SS SS SS SS SS

12AASW 12BASW 12CASW

VPI STA 284+88.42
VPI EL 805.68

VPT STA 288+23.42
VPT EL 808.02

VPC STA 290+50.38
VPC EL 809.61

VPI STA 294+20.38
VPI EL 812.20

VPT STA 297+90.38
VPT EL 809.59

PROPOSED PROFILE

EXISTING PROFILE

0.70%

-0.7

HIGH POINT STA 294+18.80
HIGH POINT EL 810.90

VCL = 670.00
K = 566.16

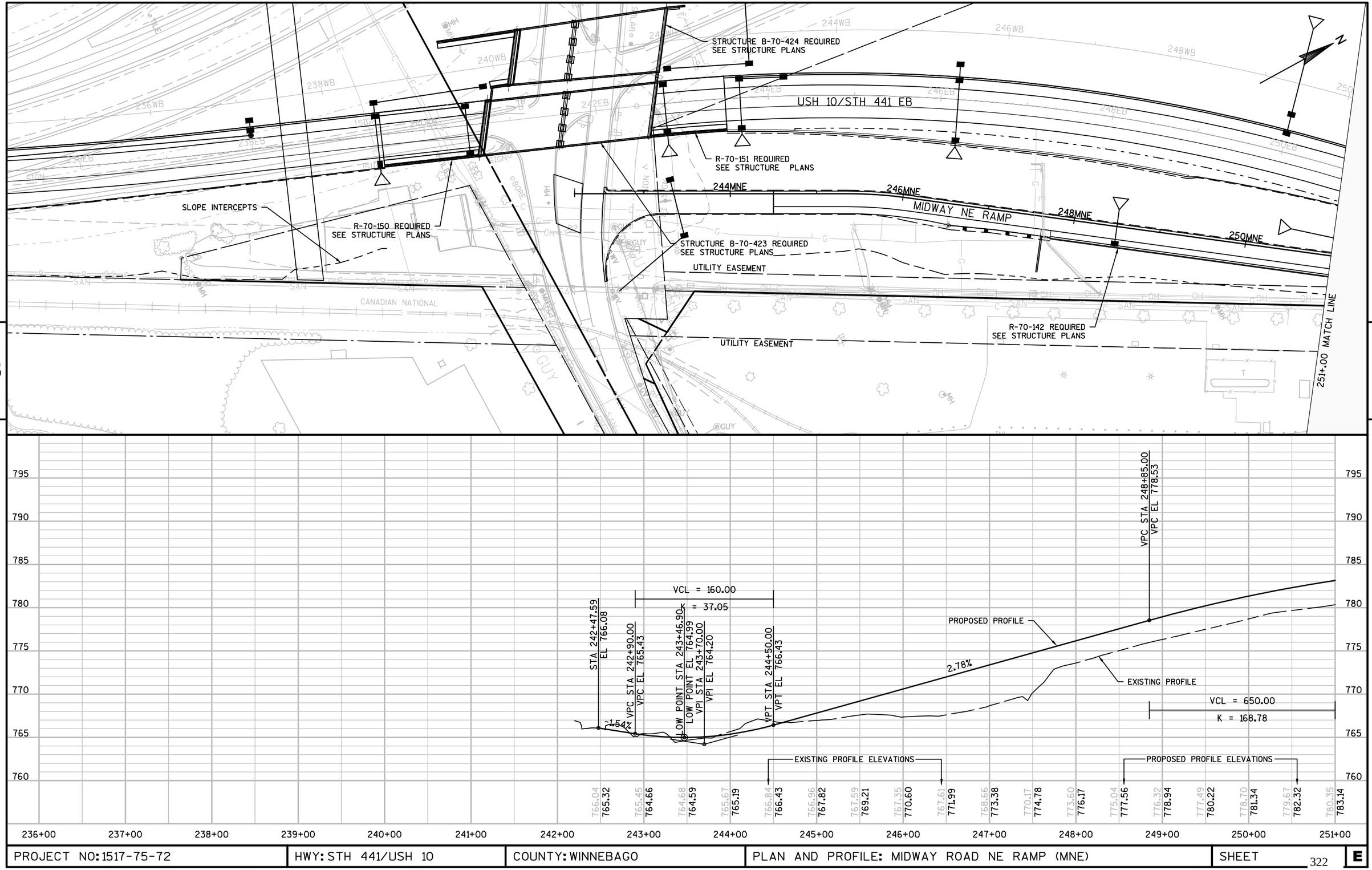
VCL = 740.00
K = 526.61

EXISTING PROFILE ELEVATIONS

PROPOSED PROFILE ELEVATIONS

820 815 810 805 800 795 790 785

| | | |



PROJECT NO: 1517-75-72	HWY: STH 441/USH 10	COUNTY: WINNEBAGO	PLAN AND PROFILE: MIDWAY ROAD NE RAMP (MNE)	SHEET 322 E

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LAYOUT NAME - 050121-PP

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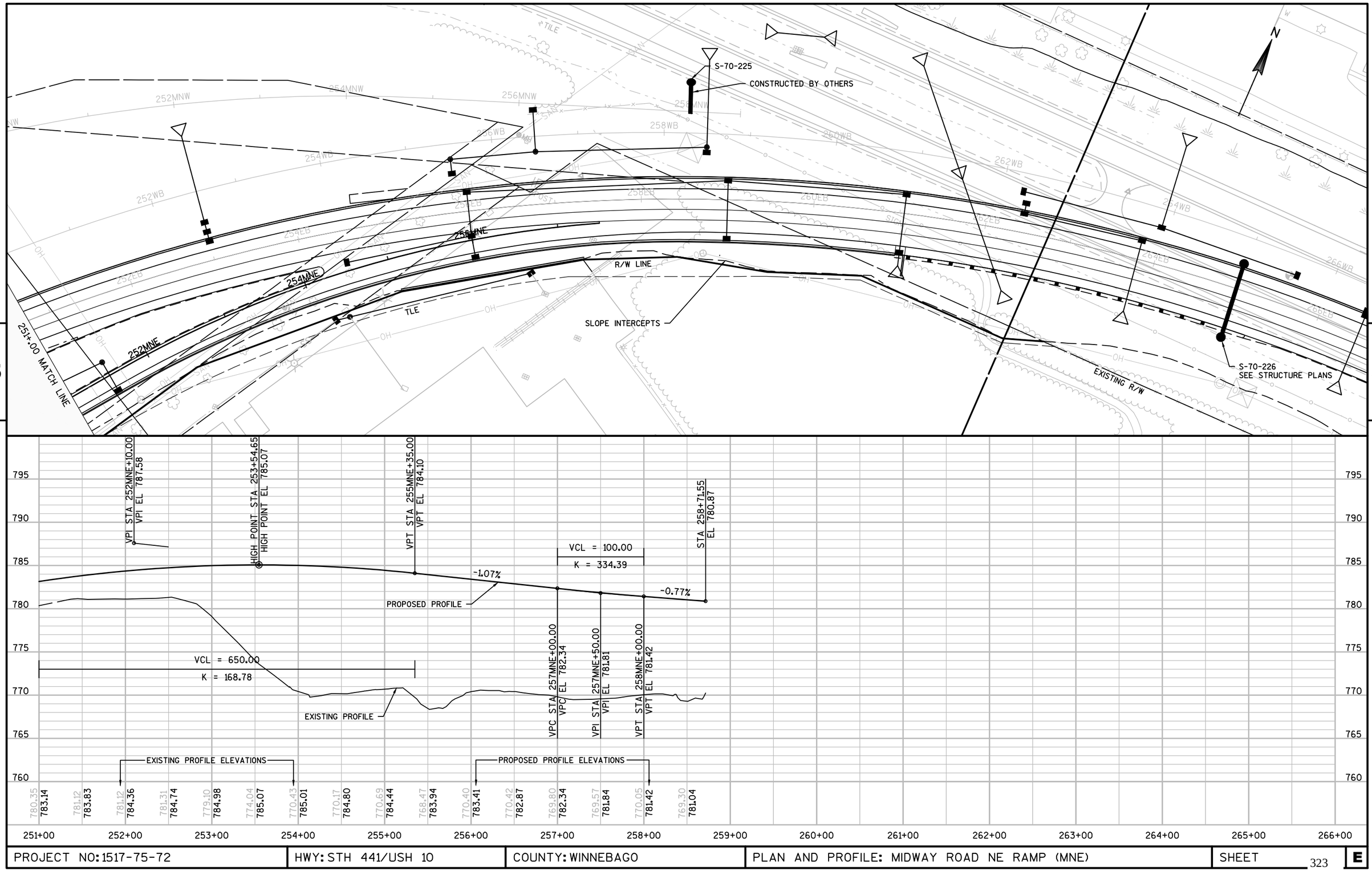
WISDOT/CADDS SHEET 44



PROJECT NO: 1517-75-72	HWY: STH 441/USH 10	COUNTY: WINNEBAGO	PLAN AND PROFILE: MIDWAY ROAD NE RAMP (MNE)	SHEET 323	E

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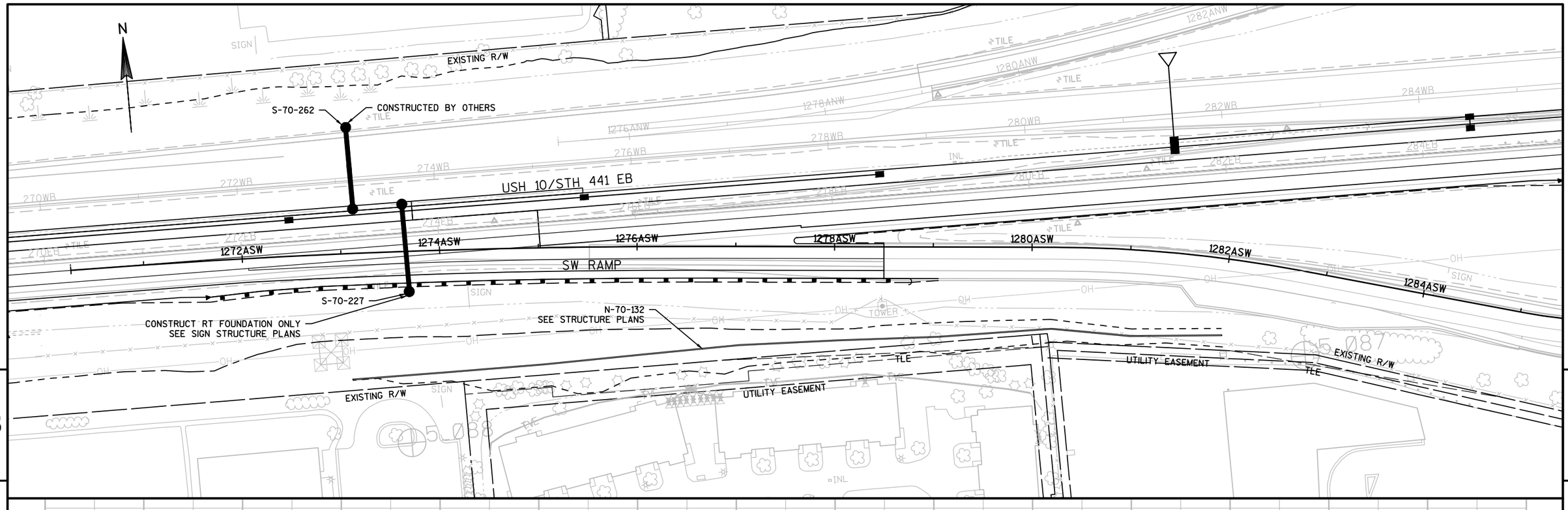
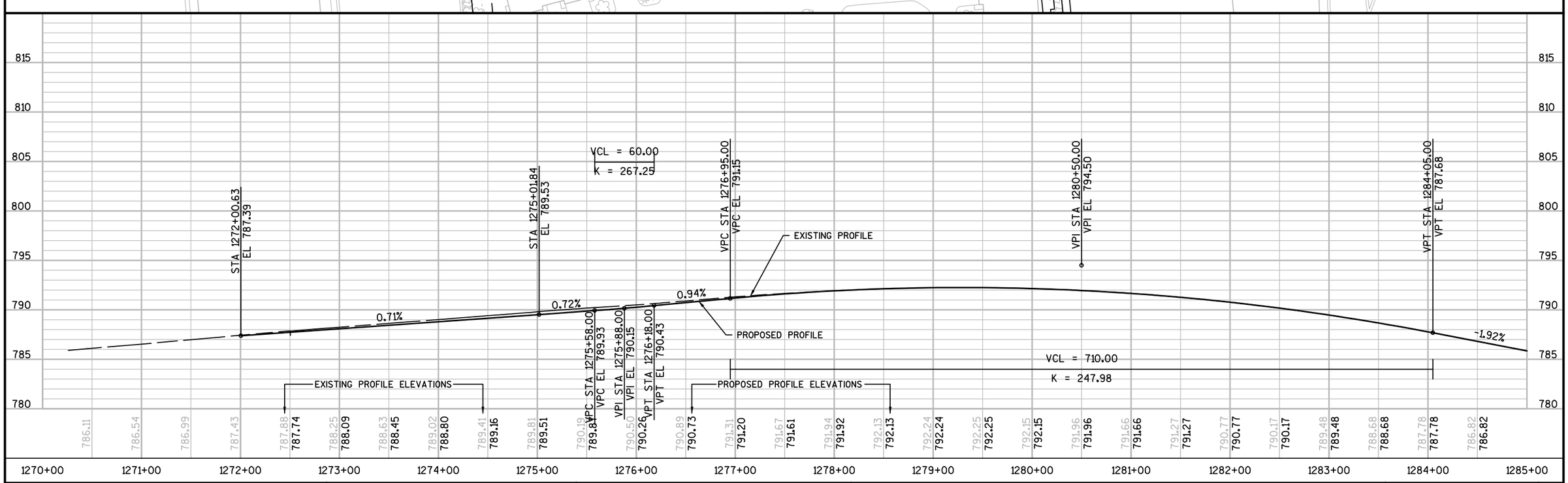
LAYOUT NAME - 050122-PP
PLOT DATE : 4/11/2017 9:30 AM PLOT BY : MARTENS, JOHN M PLOT NAME : PLOT SCALE : 1 IN:100 FT
WISDOT/CADDS SHEET 44





PROJECT NO: 1517-75-72	HWY: STH 441/USH 10	COUNTY: WINNEBAGO	PLAN AND PROFILE: APPLETON ROAD SW RAMP (ASW)	SHEET 324 E

Standard Detail Drawing List

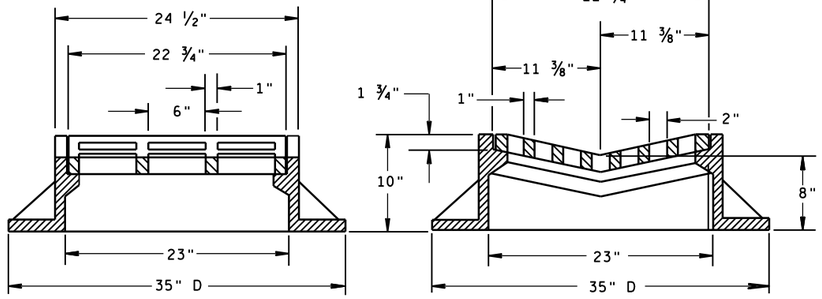
08A05-19B	INLET COVERS TYPE B, B-A, C, MS, MS-A, & WM
08A05-19C	INLET COVERS TYPE F, HM, HM-S, S, T, V, HM-GJ, & HM-GJ-S
08A05-19D	INLET COVER TYPE BW, MANHOLE COVERS, TYPE K, J, J-S, L & M
08A08-02	CATCH BASINS 3-FT, 4-FT, 5-FT AND 6-FT DIAMETER
08B09-02	MANHOLES 3-FT, 4-FT, 5-FT, 6-FT, 7-FT AND 8-FT DIAMETER
08C06-02	INLETS 3-FT AND 4-FT DIAMETER
08C07-02	INLETS 2X2-FT, 2X2.5-FT, 2X3-FT AND 2.5X3-FT
08C08-02	INLETS MEDIAN 1 AND 2 GRATE
08D01-19	CONCRETE CURB, CONCRETE CURB AND GUTTER AND TIES
08D04-05	CONCRETE SURFACE DRAINS & ASPHALTIC FLUMES
08E08-03	TYPICAL INSTALLATIONS OF EROSION BALES / TEMPORARY DITCH CHECKS
08E09-06	SILT FENCE
08E10-02	INLET PROTECTION TYPE A, B, C AND D
08E14-01	TRACKING PAD
08F01-11	APRON ENDWALLS FOR CULVERT PIPE
08F04-07	JOINT TIES FOR CONCRETE PIPE AND CONCRETE COLLAR DETAIL
09B02-09	CONDUIT
09B04-11	PULL BOX
09C03-04	TRANSFORMER/PEDESTAL BASES
09C08-05	CONCRETE BASE, TYPE 7
10A18-05B	LUMINAIRE ARMS, TRUSS TYPE 6-INCH CLAMP
12A03-10	NAME PLATE (STRUCTURES)
13B02-08A	CONCRETE PAVEMENT APPROACH SLAB
13C01-18	CONCRETE PAVEMENT LONGITUDINAL JOINTS AND TIES
13C15-06A	CONCRETE BASE
13C15-06B	CONCRETE BASE
13C17-01A	CONCRETE JOINT DETAIL FOR EXIT RAMP TERMINI
13C17-01B	CONCRETE JOINT DETAIL FOR ENTRANCE RAMP TERMINI
13C18-04A	CONCRETE PAVEMENT JOINTING
13C18-04B	CONCRETE PAVEMENT STEEL REINFORCEMENT
13C18-04C	CONCRETE PAVEMENT JOINT TIES
13C18-04D	CONCRETE PAVEMENT JOINTING AT UTILITY FIXTURES
14B07-14A	CONCRETE BARRIER TEMPORARY PRECAST, 12'-6"
14B07-14B	CONCRETE BARRIER TEMPORARY PRECAST, 12'-6"
14B07-14C	CONCRETE BARRIER TEMPORARY PRECAST, 12'-6"
14B07-14D	CONCRETE BARRIER TEMPORARY PRECAST, 12'-6"
14B07-14E	CONCRETE BARRIER TEMPORARY PRECAST, 12'-6"
14B07-14F	CONCRETE BARRIER TEMPORARY PRECAST, 12'-6"
14B07-14G	CONCRETE BARRIER TEMPORARY PRECAST, 12'-6"
14B07-14H	CONCRETE BARRIER TEMPORARY PRECAST, 12'-6"
14B08-02A	CRASH CUSHION/SAND BARREL ARRAY AND OTHER TEMPORARY BARRIER LAYOUT DETAILS
14B08-02B	CRASH CUSHION/SAND BARREL ARRAY AND OTHER TEMPORARY BARRIER LAYOUT DETAILS
14B08-02C	CRASH CUSHION/SAND BARREL ARRAY AND OTHER TEMPORARY BARRIER LAYOUT DETAILS
14B08-02D	CRASH CUSHION/SAND BARREL ARRAY AND OTHER TEMPORARY BARRIER LAYOUT DETAILS
14B08-02E	CRASH CUSHION/SAND BARREL ARRAY AND OTHER TEMPORARY BARRIER LAYOUT DETAILS
14B32-04A	CONCRETE BARRIER SINGLE SLOPE (CBSS)
14B32-04B	CONCRETE BARRIER SINGLE SLOPE (CBSS)
14B32-04C	CONCRETE BARRIER SINGLE SLOPE (CBSS)
14B32-04D	CONCRETE BARRIER SINGLE SLOPE (CBSS)
14B32-04E	CONCRETE BARRIER SINGLE SLOPE (CBSS)
14B42-04A	MIDWEST GUARDRAIL SYSTEM (MGS) GUARDRAIL
14B42-04B	MIDWEST GUARDRAIL SYSTEM (MGS) GUARDRAIL
14B42-04C	MIDWEST GUARDRAIL SYSTEM (MGS) GUARDRAIL
14B44-02A	MIDWEST GUARDRAIL SYSTEM ENERGY ABSORBING TERMINAL (MGS)
14B44-02B	MIDWEST GUARDRAIL SYSTEM ENERGY ABSORBING TERMINAL (MGS)
14B44-02C	MIDWEST GUARDRAIL SYSTEM ENERGY ABSORBING TERMINAL (MGS)
14B45-04A	MIDWEST GUARDRAIL SYSTEM THRIE BEAM TRANSITION (MGS)
14B45-04B	MIDWEST GUARDRAIL SYSTEM THRIE BEAM TRANSITION (MGS)
14B45-04C	MIDWEST GUARDRAIL SYSTEM THRIE BEAM TRANSITION (MGS)
14B45-04D	MIDWEST GUARDRAIL SYSTEM THRIE BEAM TRANSITION (MGS)
14B45-04E	MIDWEST GUARDRAIL SYSTEM THRIE BEAM TRANSITION (MGS)
14B45-04F	MIDWEST GUARDRAIL SYSTEM THRIE BEAM TRANSITION (MGS)
14B45-04G	MIDWEST GUARDRAIL SYSTEM THRIE BEAM TRANSITION (MGS)
14B45-04H	MIDWEST GUARDRAIL SYSTEM THRIE BEAM TRANSITION (MGS)
14B45-04I	MIDWEST GUARDRAIL SYSTEM THRIE BEAM TRANSITION (MGS)
14B45-04J	MIDWEST GUARDRAIL SYSTEM THRIE BEAM TRANSITION (MGS)
14B45-04K	MIDWEST GUARDRAIL SYSTEM THRIE BEAM TRANSITION (MGS)

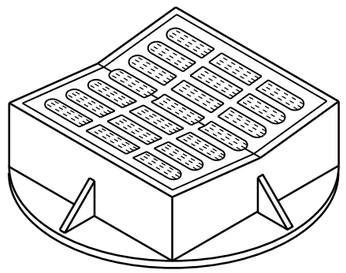
6

Standard Detail Drawing List

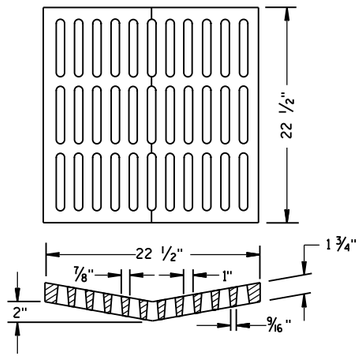
14B45-04L	MIDWEST GUARDRAIL SYSTEM THRIE BEAM TRANSITION (MGS)
14B47-02A	MIDWEST GUARDRAIL SYSTEM (MGS) TYPE 2 TERMINAL
14B47-02B	MIDWEST GUARDRAIL SYSTEM (MGS) TYPE 2 TERMINAL
14B47-02C	MIDWEST GUARDRAIL SYSTEM (MGS) TYPE 2 TERMINAL
15A03-02A	FLEXIBLE MARKER POST FOR CULVERT END
15A03-02B	FLEXIBLE MARKER POST FOR CULVERT END
15B03-15A	FENCE CHAIN LINK
15B03-15B	FENCE CHAIN LINK
15C08-17A	LONGITUDINAL MARKING (MAINLINE)

6



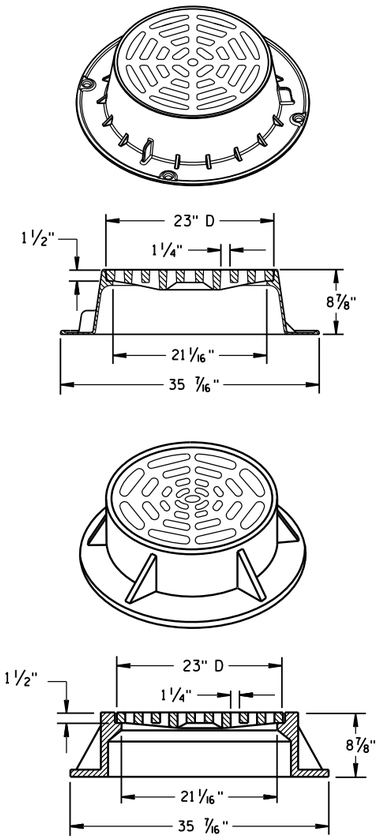


TYPE "B"



ALTERNATIVE GRATE FOR TYPE "B" COVER

USE WHERE PEDESTRIAN OR BICYCLE TRAFFIC IS POSSIBLE.
NOTED AS TYPE B-A ON THE DRAINAGE TABLE



TYPE "C"

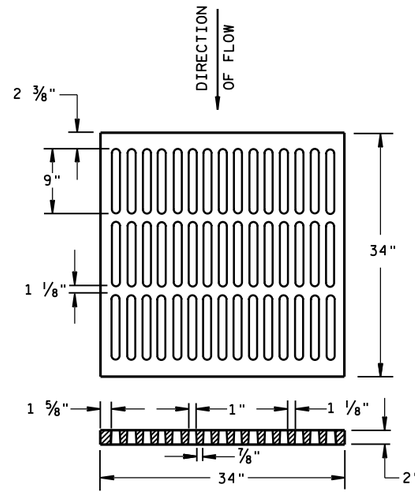
NOTE: EITHER CASTING IS ACCEPTABLE

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.

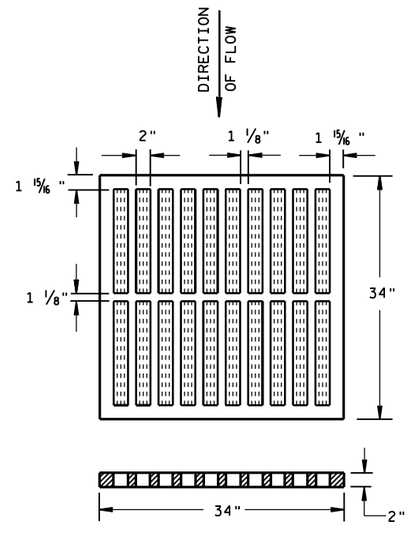
DETAIL DRAWINGS FOR PROPOSED ALTERNATE DESIGNS FOR CATCH BASIN, MANHOLE AND INLET COVERS SHALL BE SUBMITTED TO THE ENGINEER FOR APPROVAL PROVIDING THAT SUCH ALTERNATE DESIGNS MAKE PROVISION FOR EQUIVALENT CAPACITY AND STRENGTH.

ROUND FRAMES AND COVERS SHALL HAVE CONTINUOUSLY MACHINED BEARING SURFACES TO PREVENT ROCKING AND RATTLING.



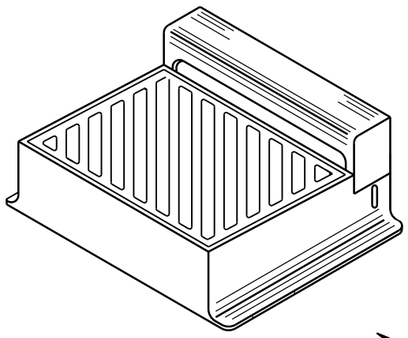
ALTERNATIVE TYPE "MS"

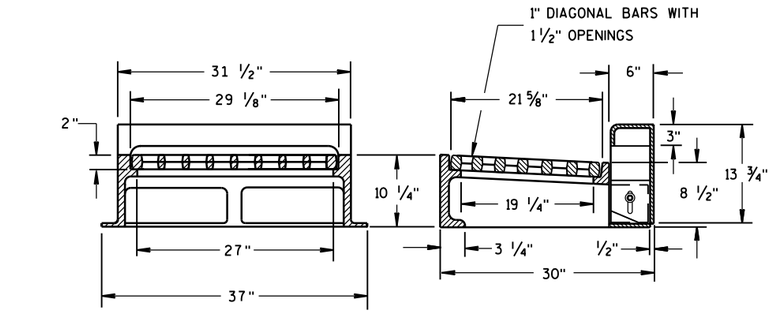
USE WHERE PEDESTRIAN OR BICYCLE TRAFFIC IS PERMITTED
NOTED AS TYPE MS-A ON THE DRAINAGE TABLE



TYPE "MS"

USE ON FREEWAYS AND EXPRESSWAYS
NOTED AS TYPE MS ON DRAINAGE TABLE





NOTE: CURB BOX HEIGHT ADJUSTABLE 6" TO 9"

TYPE "WM"

DIRECTION OF FLOW

DIAGONAL SLOTS, SHALL BE ORIENTED TO THE DIRECTION OF FLOW AS ILLUSTRATED. GRATES ARE MANUFACTURED TO BE REVERSIBLE.

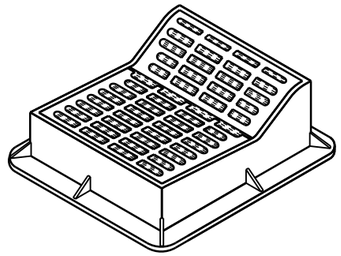
INLET COVERS
TYPE B, B-A, C, MS, MS-A, & WM

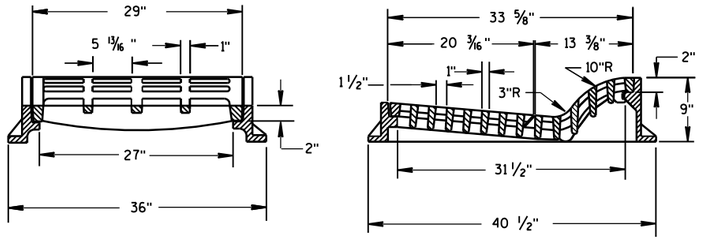
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
11/27/2013 — DATE
/S/ Jerry H. Zogg — ROADWAY STANDARDS DEVELOPMENT ENGINEER
FHWA

6

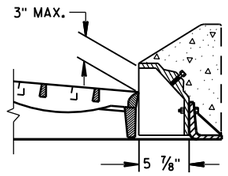
S.D.D. 8 A 5-19b





TYPE "F"

USE WITH TYPES A & D CONCRETE CURB & GUTTER, 36 INCH.



ALTERNATIVE CURB BOX FOR TYPE "HM" COVER

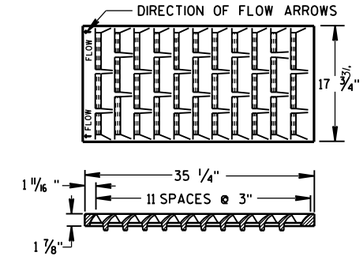
USE WITH TYPES G & J CONCRETE CURB & GUTTER, 30 INCH
NOTED AS TYPE HM-GJ ON DRAINAGE TABLE

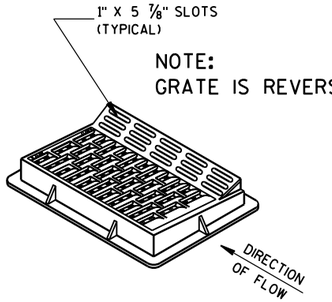
NOTE:
SPECIAL GRATE FOR THE
TYPE "H" COVER MAY ALSO BE
USED FOR THE TYPE "HM-GJ" COVER
NOTED AS TYPE HM-GJ-S ON DRAINAGE TABLE

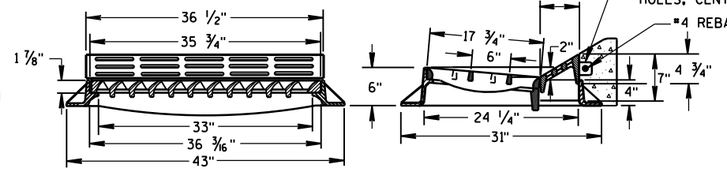
GENERAL NOTES

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.



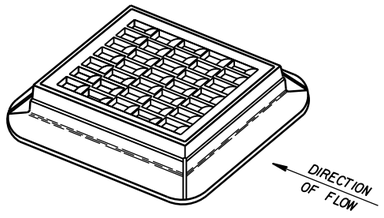


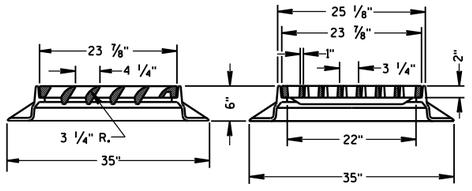


TYPE "HM"

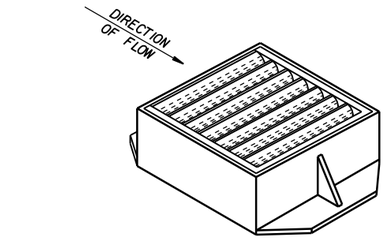
USE WITH TYPES A & D CONCRETE CURB & GUTTER, 36 INCH.

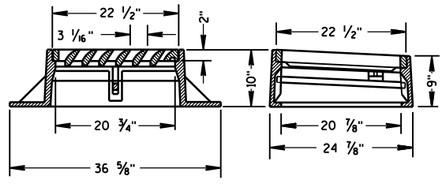
NOTE:
SPECIAL GRATE FOR THE
TYPE "H" COVER MAY ALSO BE
USED FOR THE TYPE "HM" COVER
NOTED AS TYPE HM-S ON DRAINAGE TABLE



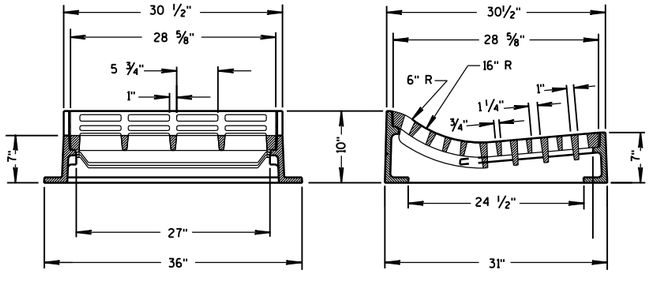


TYPE "S"



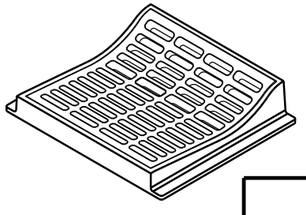


TYPE "V"



TYPE "T"

USE WITH TYPES R & T CONCRETE CURB & GUTTER, 36 INCH.



INLET COVERS
TYPE F, HM, HM-S, S, T, V, HM-GJ, & HM-GJ-S

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
11/27/2013
DATE

/S/ Jerry H. Zogg
ROADWAY STANDARDS ENGINEER

328

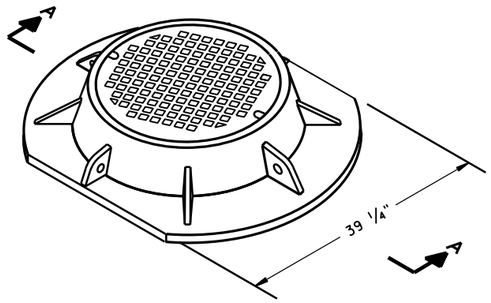
FHWA

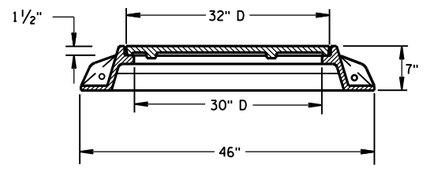
6

S.D.D. 8 A 5-19c

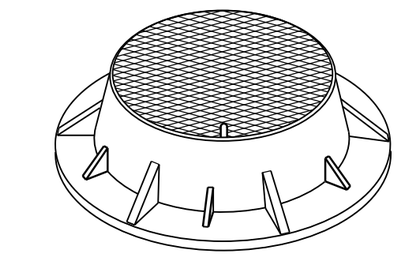
6

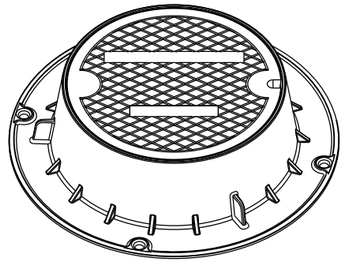
S.D.D. 8 A 5-19c

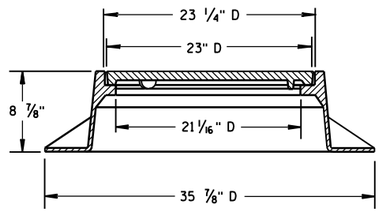


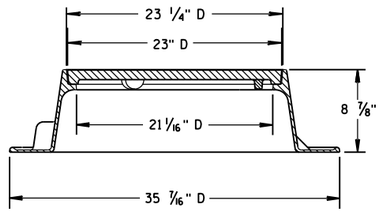


SECTION A-A
TYPE "K"









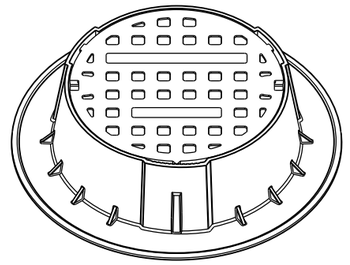
TYPE "J"
NOTE: EITHER CASTING IS ACCEPTABLE

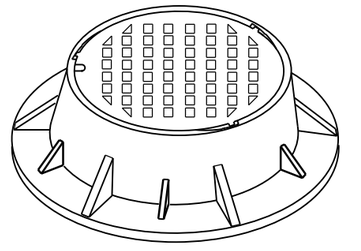
GENERAL NOTES

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.

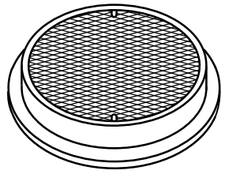
DETAIL DRAWINGS FOR PROPOSED ALTERNATE DESIGNS FOR MANHOLE COVERS SHALL BE SUBMITTED TO THE ENGINEER FOR APPROVAL PROVIDING THAT SUCH ALTERNATE DESIGNS MAKE PROVISION FOR EQUIVALENT CAPACITY AND STRENGTH.

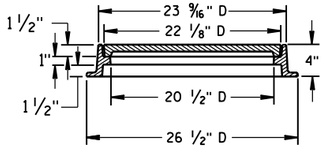
ROUND FRAMES AND COVERS SHALL HAVE CONTINUOUSLY MACHINED BEARING SURFACES TO PREVENT ROCKING AND RATTLING.



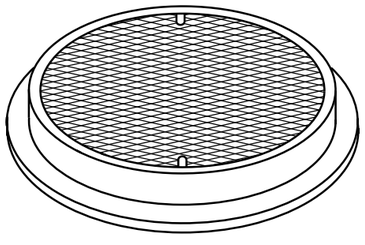


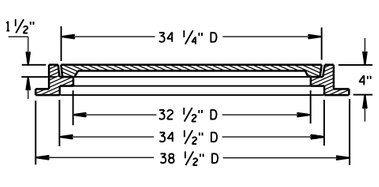
TYPE "J" SPECIAL
TYPE "B" NON-ROCKING SELF-SEAL LID
(NOTED AS TYPE J-S ON THE DRAINAGE TABLE)
NOTE: EITHER CASTING IS ACCEPTABLE



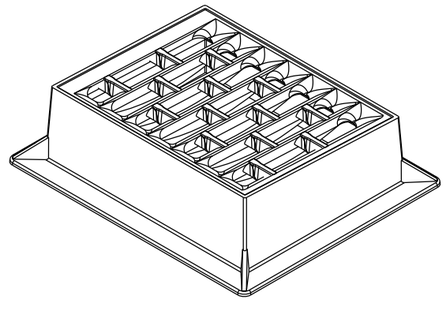


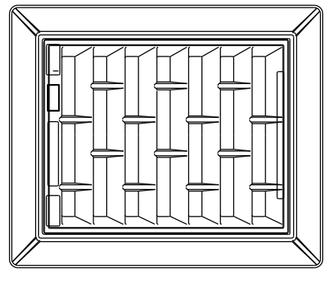
TYPE "L"

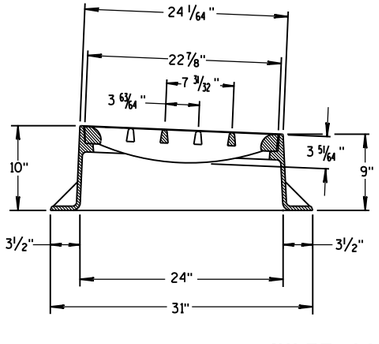


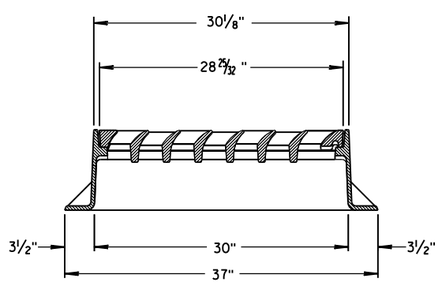


TYPE "M"









INLET COVER TYPE "BW"

INLET COVER TYPE BW
MANHOLE COVERS, TYPE K, J, J-S, L & M

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
11/27/2013
DATE
FHWA

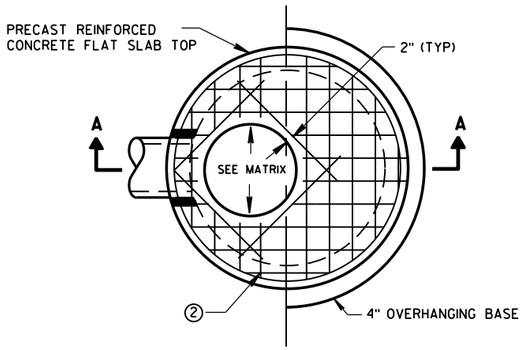
/S/ Jerry H. Zogg
ROADWAY STANDARDS DEVELOPMENT ENGINEER

6

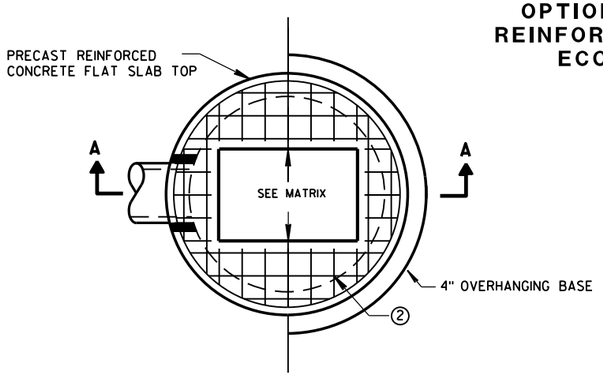
S.D.D. 8 A 5-19d

6

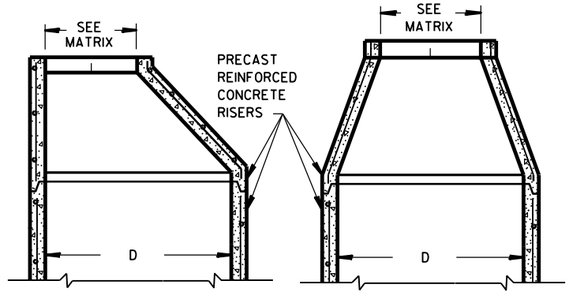
S.D.D. 8 A 5-19d



PLAN VIEW CIRCULAR OPENING

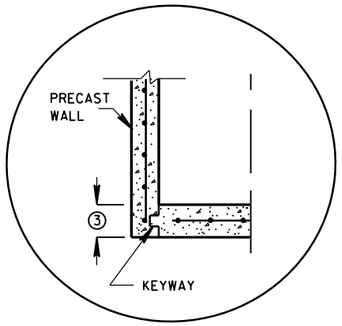


PLAN VIEW RECTANGULAR OPENING

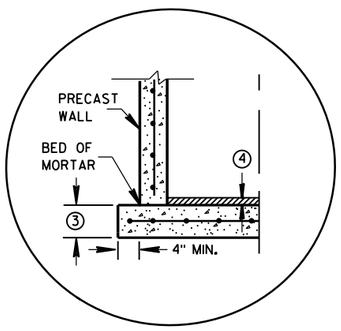


OPTIONAL PRECAST REINFORCED CONCRETE ECCENTRIC TOP

OPTIONAL PRECAST REINFORCED CONCRETE CONCENTRIC TOP

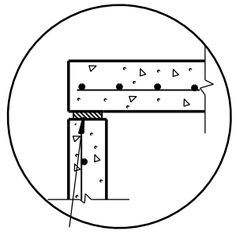


PRECAST REINFORCED CONCRETE WITH INTEGRAL BASE OPTION

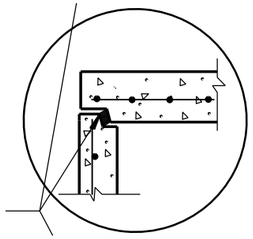


SEPARATE PRECAST REINFORCED CONCRETE BASE OPTION

DETAIL "A"

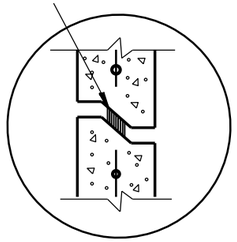


TOP WITH PLAIN END JOINT



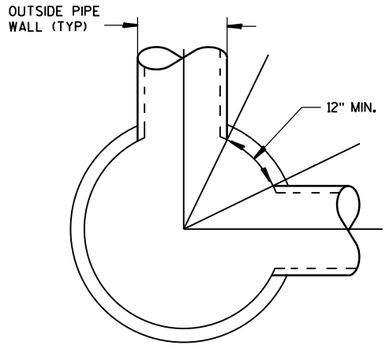
JOINTS TO BE SEALED WITH A BUTYL RUBBER SEAL PER SEALANT MANUFACTURERS RECOMMENDATIONS CONFORMING TO ASTM C 990 (TYP)

TOP WITH TONGUE AND GROOVE JOINT

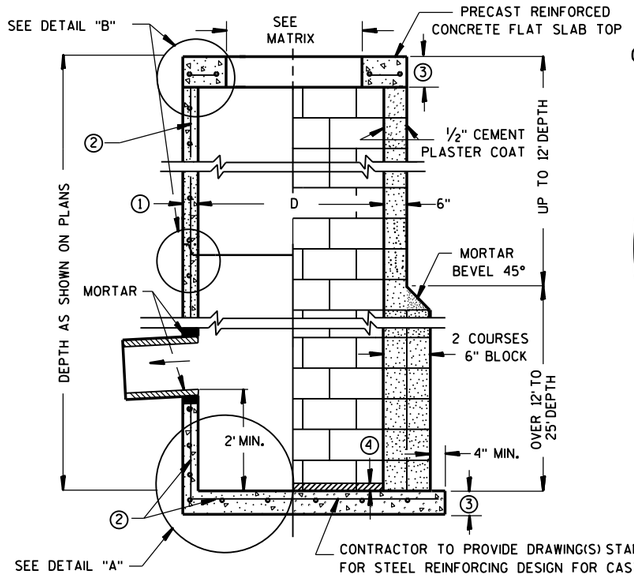


RISER WITH TONGUE AND GROOVE JOINT

DETAIL "B"



DETAIL "C"



CONTRACTOR TO PROVIDE DRAWING(S) STAMPED BY A PROFESSIONAL ENGINEER FOR STEEL REINFORCING DESIGN FOR CAST-IN-PLACE STRUCTURES

SECTION A-A

PRECAST REINFORCED CONCRETE WITH MONOLITHIC BASE

CONCRETE BLOCK WITH CAST-IN-PLACE OR PRECAST REINFORCED CONCRETE BASE 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 THE APPLICABLE SPECIAL PROVISIONS.

UNLESS OTHERWISE AUTHORIZED IN WRITING BY THE ENGINEER, THE CONTRACTOR SHALL NOT ORDER AND DELIVER PRECAST CATCH BASIN UNITS REQUIRED FOR THE PROJECT UNTIL A LIST OF SIZES IS FURNISHED BY THE ENGINEER.

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 3X3-L", "CATCH BASINS 4-B", "INLETS 2X3-H", ETC. THE FIRST NUMBERS DESIGNATE THE SIZE OF THE STRUCTURE, AND THE FOLLOWING LETTER DESIGNATES THE TYPE OF COVER TO BE USED TO COMPRISE THE COMPLETE UNIT.

BASES SHALL BE PLACED ON A BED OF MATERIAL AT LEAST 6 INCHES IN DEPTH, WHICH MEETS THE REQUIREMENTS OF FOUNDATION 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.

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 AASHTO M199 AND 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. REINFORCING BAR MUST BE A MINIMUM OF ½ INCH AND MEET THE REQUIREMENTS OF ASTM A615.

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.

PRECAST REINFORCED RISERS SHALL HAVE A TONGUE AND GROOVE JOINT WITH TONGUE UP OR DOWN.

CONCRETE BLOCK WILL NOT BE PERMITED FOR STRUCTURES GREATER THAN 4 FEET IN DIAMETER.

4" OVERHANGING BASES ARE REQUIRED FOR ALL CONCRETE BLOCK INSTALLATIONS. 4" OVERHANG IS REQUIRED WHEN SEPARATE PRECAST BASE IS PROVIDED. OVERHANG IS NOT REQUIRED ON PRECAST STRUCTURES WITH AN INTEGRAL OR MONOLITHIC BASE.

FOR ADDITIONAL CONFIGURATIONS, MAINTAIN A MINIMUM OF 12 INCHES AS MEASURED FROM THE INSIDE OF THE STRUCTURE WALL BETWEEN THE OUTSIDE PIPE WALLS OF ADJACENT PIPES. SEE DETAIL "C".

① MINIMUM WALL THICKNESS SHALL BE 4 INCHES FOR 3-FT, 5 INCHES FOR 4-FT, 6 INCHES FOR 5-FT AND 7 INCHES FOR 6-FT DIAMETER PRECAST CATCH BASINS.

② FOR PRECAST CATCH BASINS PROVIDE REINFORCING STEEL IN ACCORDANCE TO AASHTO M199.

③ PRECAST FLAT SLAB TOPS AND BASES WITH A DIAMETER OF 48" AND LESS SHALL HAVE A MINIMUM THICKNESS OF 6". PRECAST FLAT SLAB TOPS AND BASES WITH A DIAMETER LARGER THAN 48" SHALL HAVE A MINIMUM THICKNESS OF 8".

④ 1" CONCRETE KEY POURED AFTER INSTALLATION. 2' SUMP MEASURED FROM TOP OF KEY.

CATCH BASIN COVER OPENING MATRIX

CATCH BASIN SIZE	INLET COVER TYPE	ALL A'S	ALL B'S	BW	C	F	ALL H'S	S	T	V	WM	Z
	OPENING SIZE (FT)											
3-FT	2X2	X	X					X		X		
	2 DIA.				X							X
4-FT-6-FT	2X2	X	X					X		X		
	2X2.5			X				X	X	X	X	
	2 DIA.				X							X
	2X3						X					
	2.5X3					X						

PIPE MATRIX

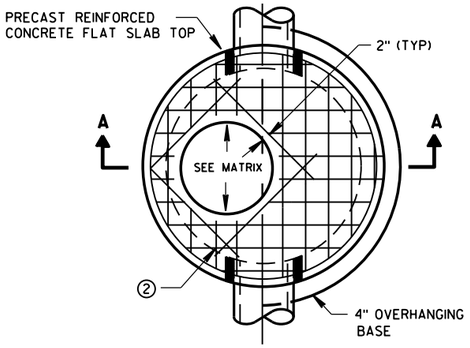
CATCH BASIN SIZE	MAXIMUM INSIDE PIPE DIAMETER FOR TWO PIPES	
	180° SEPARATION (IN)	90° SEPARATION (IN)
3-FT	15	12
4-FT	24	18
5-FT	36	24
6-FT	42	30

CATCH BASINS 3-FT, 4-FT, 5-FT AND 6-FT DIAMETER

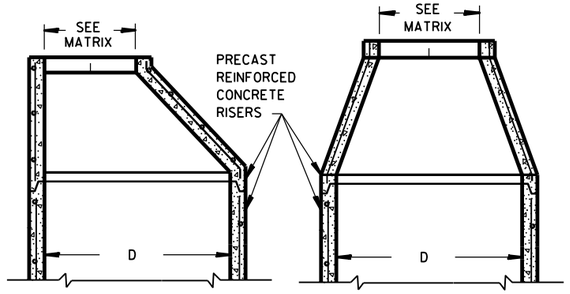
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
Sept., 2016 — DATE
/S/ Rodney Taylor — ROADWAY STANDARDS UNIT SUPERVISOR
FHWA

S.D.D. 8 A 8-2

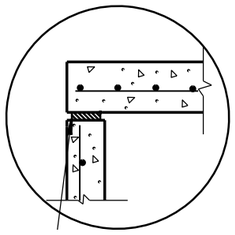


PLAN VIEW CIRCULAR OPENING

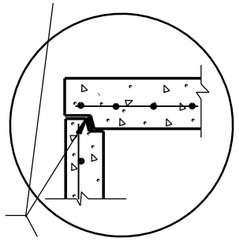


OPTIONAL PRECAST REINFORCED CONCRETE ECCENTRIC TOP

OPTIONAL PRECAST REINFORCED CONCRETE CONCENTRIC TOP

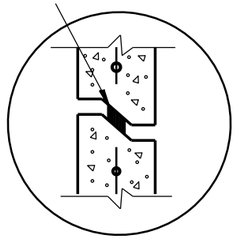


TOP WITH PLAIN END JOINT



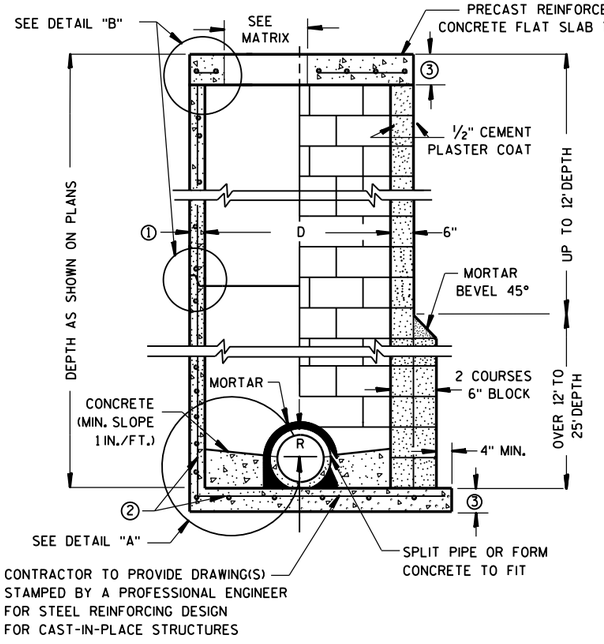
JOINTS TO BE SEALED WITH A BUTYL RUBBER SEAL PER SEALANT MANUFACTURERS RECOMMENDATIONS CONFORMING TO ASTM C990 (TYP)

TOP WITH TONGUE AND GROOVE JOINT



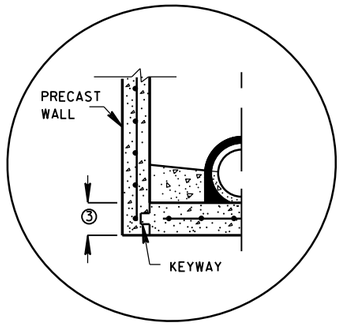
RISER WITH TONGUE AND GROOVE JOINT

DETAIL "B"

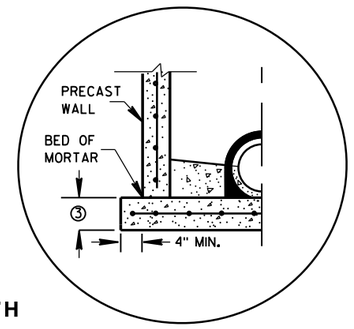


PRECAST REINFORCED CONCRETE WITH MONOLITHIC BASE

CONCRETE BLOCK WITH CAST-IN-PLACE OR PRECAST REINFORCED CONCRETE BASE ②

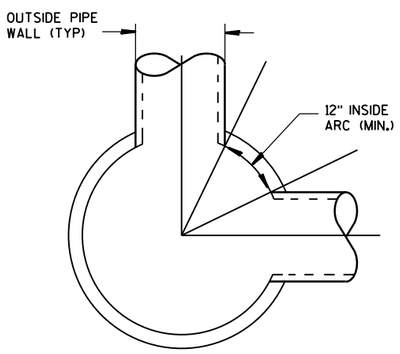


PRECAST REINFORCED CONCRETE WITH INTEGRAL BASE OPTION



SEPARATE PRECAST REINFORCED CONCRETE BASE OPTION

DETAIL "A"



DETAIL "C"

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① MINIMUM WALL THICKNESS SHALL BE 4 INCHES FOR 3-FT, 5 INCHES FOR 4-FT, 6 INCHES FOR 5-FT, 7 INCHES FOR 6-FT, 8 INCHES FOR 7-FT AND 9 INCHES FOR 8-FT DIAMETER PRECAST MANHOLES.

② FOR PRECAST MANHOLES PROVIDE REINFORCING STEEL IN ACCORDANCE TO AASHTO M199.

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MANHOLE COVER OPENING MATRIX

MANHOLE COVER TYPE	C	ALL J'S	K	L	M
OPENING SIZE (FT)					
2 DIA.	X	X		X	
3 DIA.			X		X

PIPE MATRIX

MANHOLE SIZE	MAXIMUM INSIDE PIPE DIAMETER FOR TWO PIPES	
	180° SEPARATION (IN)	90° SEPARATION (IN)
3-FT	15	12
4-FT	24	18
5-FT	36	24
6-FT	42	36
7-FT	48	36
8-FT	60	42

MANHOLES 3-FT, 4-FT, 5-FT, 6-FT, 7-FT AND 8-FT DIAMETER

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

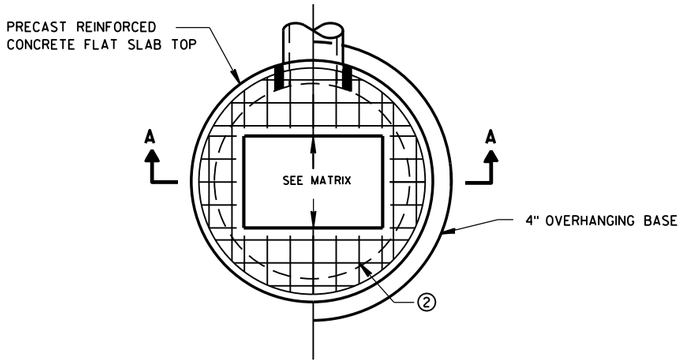
APPROVED

Sept., 2016
DATE

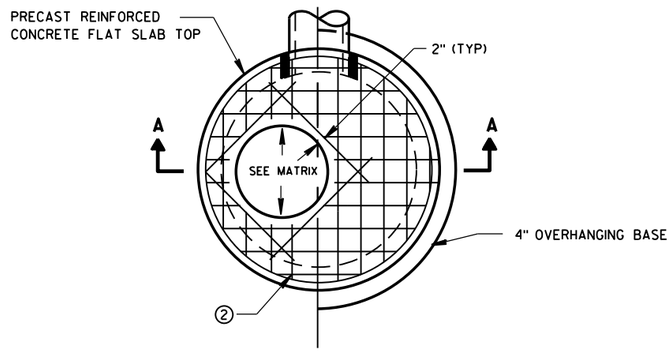
/S/ Rodney Taylor
ROADWAY STANDARDS DEVELOPMENT
UNIT SUPERV

FHWA

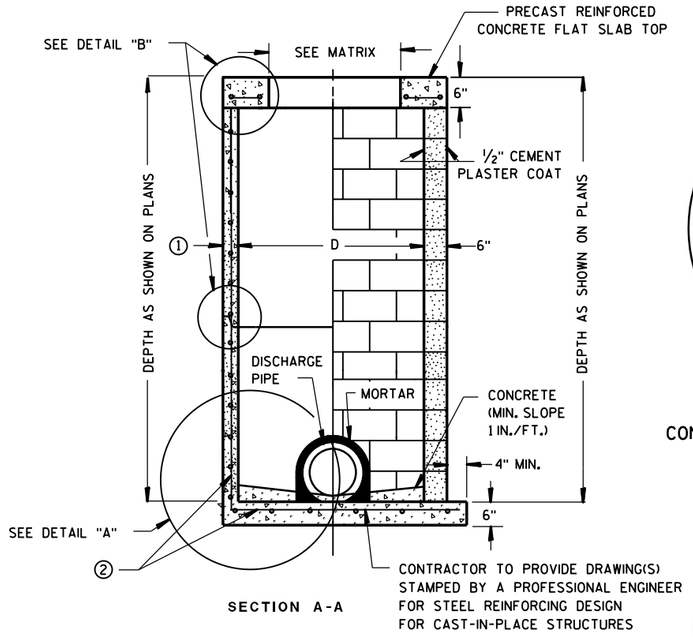
6
S.D.D. 8 B 9-2



PLAN VIEW RECTANGULAR OPENING



PLAN VIEW CIRCULAR OPENING

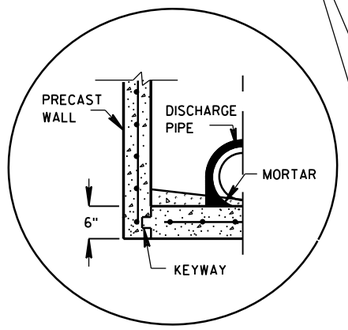


SECTION A-A

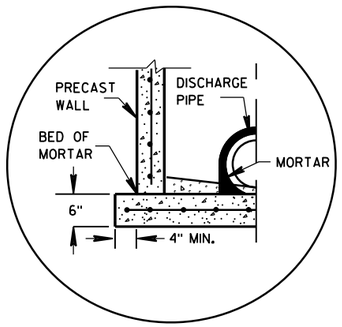
PRECAST REINFORCED CONCRETE WITH MONOLITHIC BASE

CONCRETE BLOCK WITH CAST-IN-PLACE OR PRECAST REINFORCED CONCRETE BASE ②

CIRCULAR INLETS W/ FLAT TOP

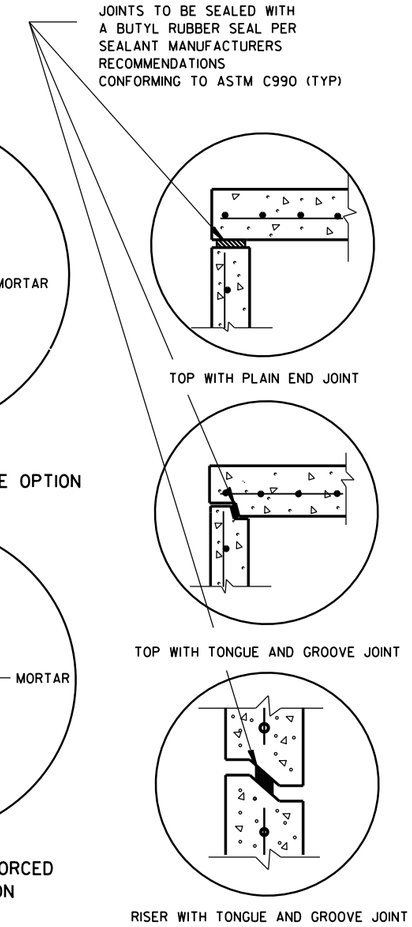


PRECAST REINFORCED CONCRETE WITH INTEGRAL BASE OPTION



SEPARATE PRECAST REINFORCED CONCRETE BASE OPTION

DETAIL "A"



DETAIL "B"

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.

UNLESS OTHERWISE AUTHORIZED IN WRITING BY THE ENGINEER, THE CONTRACTOR SHALL NOT ORDER AND DELIVER PRECAST INLET UNITS REQUIRED FOR THE PROJECT UNTIL A LIST OF SIZES IS FURNISHED BY THE ENGINEER.

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 3X3-L", "CATCH BASINS 4-B", "INLETS 2X3-H", ETC. THE FIRST NUMBERS DESIGNATE THE SIZE OF THE STRUCTURE, AND THE FOLLOWING LETTER DESIGNATES THE TYPE OF COVER TO BE USED TO COMPRISE THE COMPLETE UNIT.

BASES SHALL BE PLACED ON A BED OF MATERIAL AT LEAST 6 INCHES IN DEPTH, WHICH MEETS THE REQUIREMENTS OF FOUNDATION BACKFILL. THIS BEDDING SHALL BE COMPACTED AND PROVIDE UNIFORM SUPPORT FOR THE ENTIRE AREA OF THE BASE.

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.

PRECAST REINFORCED RISERS SHALL HAVE A TONGUE AND GROOVE JOINT WITH TONGUE UP OR DOWN.

4" OVERHANGING BASES ARE REQUIRED FOR ALL CONCRETE BLOCK INSTALLATIONS. 4" OVERHANG IS REQUIRED WHEN SEPARATE PRECAST BASE IS PROVIDED. OVERHANG IS NOT REQUIRED ON PRECAST STRUCTURES WITH AN INTEGRAL OR MONOLITHIC BASE.

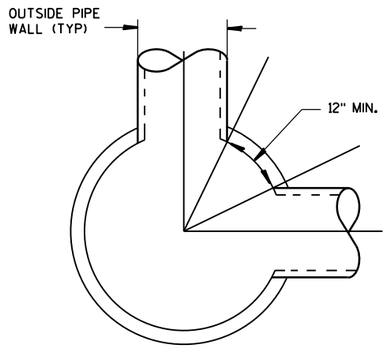
FOR ADDITIONAL CONFIGURATIONS, MAINTAIN A MINIMUM OF 12 INCHES AS MEASURED FROM THE INSIDE OF THE STRUCTURE WALL BETWEEN THE OUTSIDE PIPE WALLS OF ADJACENT PIPES. SEE DETAIL "C".

① MINIMUM WALL THICKNESS SHALL BE 4-IN FOR 3-FT DIAMETER AND 5-IN FOR 4-FT DIAMETER PRECAST INLETS.

② FOR PRECAST CATCH BASINS PROVIDE REINFORCING STEEL IN ACCORDANCE TO AASHTO M199.

INLET COVER OPENING MATRIX

	INLET COVER TYPE	ALL A'S	ALL B'S	BW	C	F	ALL H'S	S	T	V	WM	Z
INLET SIZE	OPENING SIZE (FT)											
3-FT	2 DIA.				X							X
	2X2	X	X					X		X		
4-FT	2 DIA.				X							X
	2X2	X	X					X		X		
	2X2.5			X				X	X	X	X	
	2X3						X					
	2.5X3					X						



DETAIL "C"

PIPE MATRIX

INLET SIZE	MAXIMUM INSIDE PIPE DIAMETER FOR TWO PIPES	
	180° SEPARATION (IN)	90° SEPARATION (IN)
3-FT	15	12
4-FT	24	18

INLETS 3-FT AND 4-FT DIAMETER

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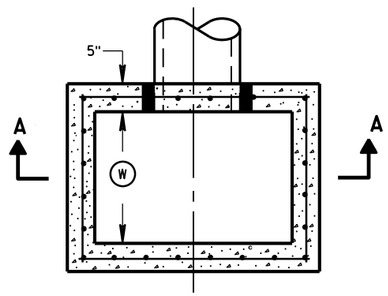
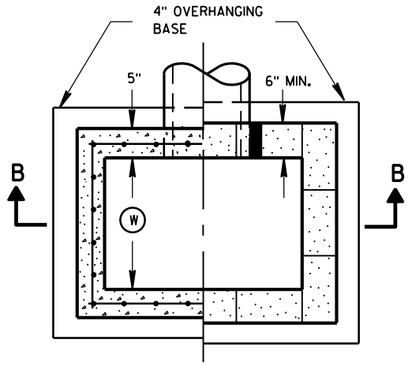
INLETS 3-FT AND 4-FT DIAMETER

6

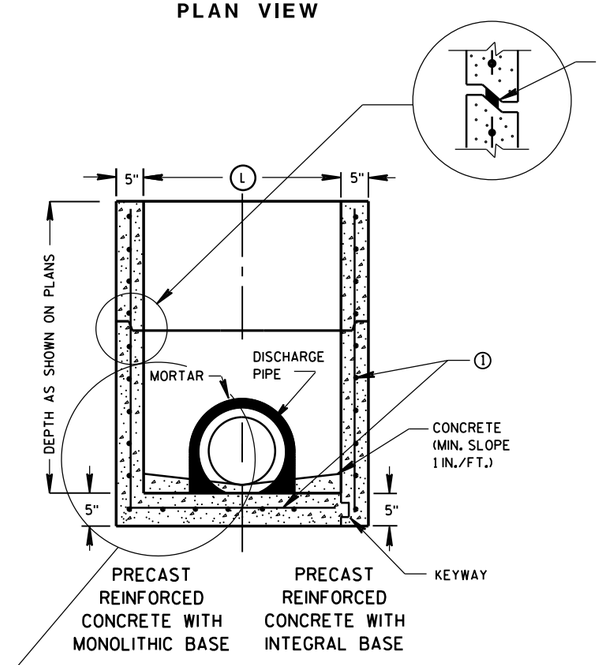
S.D.D. 8 C 6-2



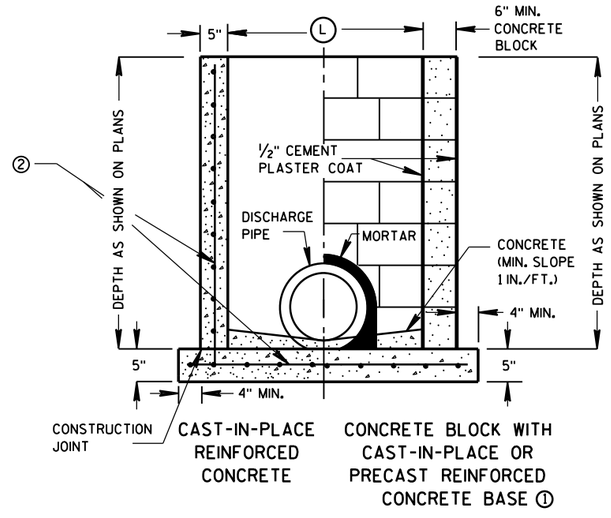
PLAN VIEW



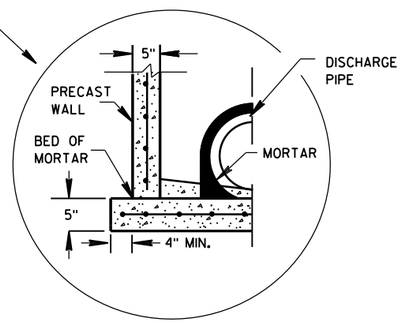
PLAN VIEW



SECTION A-A



SECTION B-B



SEPARATE PRECAST REINFORCED CONCRETE BASE OPTION

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.

UNLESS OTHERWISE AUTHORIZED IN WRITING BY THE ENGINEER, THE CONTRACTOR SHALL NOT ORDER AND DELIVER PRECAST INLET UNITS REQUIRED FOR THE PROJECT UNTIL A LIST OF SIZES IS FURNISHED BY THE ENGINEER.

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 ASTM C 913.

ALL DRAINAGE STRUCTURES ARE DESIGNATED ON THE PLANS AS "MANHOLES 3X3-L", "CATCH BASINS 4-B", "INLETS 2X3-H", ETC. THE FIRST NUMBERS DESIGNATES THE SIZE OF THE STRUCTURE, AND THE FOLLOWING LETTER DESIGNATES THE TYPE OF COVER TO BE USED TO COMPRISE THE COMPLETE UNIT.

BASES SHALL BE PLACED ON A BED OF MATERIAL AT LEAST 6 INCHES IN DEPTH, WHICH MEETS THE REQUIREMENTS OF FOUNDATION BACKFILL. THIS BEDDING SHALL BE COMPACTED AND PROVIDE UNIFORM SUPPORT FOR THE ENTIRE AREA OF THE BASE.

ALL BAR STEEL REINFORCEMENT SHALL BE EMBEDDED 2 INCHES CLEAR UNLESS OTHERWISE SHOWN OR NOTED.

PRECAST REINFORCED RISERS SHALL HAVE A TONGUE AND GROOVE JOINT WITH TONGUE UP OR DOWN.

4" OVERHANGING BASES ARE REQUIRED FOR CAST-IN-PLACE REINFORCED CONCRETE AND CONCRETE BLOCK INSTALLATIONS.
4" OVERHANG IS REQUIRED WHEN SEPARATE PRECAST BASE IS PROVIDED.
OVERHANG IS NOT REQUIRED ON PRECAST STRUCTURES WITH AN INTEGRAL OR MONOLITHIC BASE.

MAXIMUM INSIDE PIPE DIAMETER DETERMINED BY 3 INCH CLEARANCE ON EACH SIDE OF THE OUTSIDE WALL OF THE PIPE. SEE DETAIL "A". ASSUMES PIPE ENTERS PERPENDICULAR TO THE STRUCTURE.

① FOR PRECAST INLETS PROVIDE REINFORCING STEEL IN ACCORDANCE TO ASTM C 913.

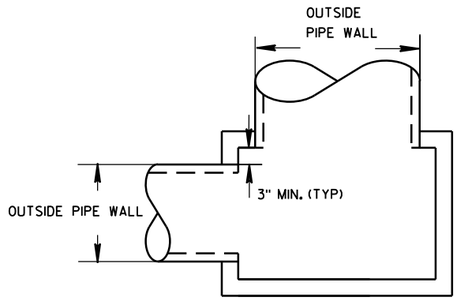
② CONTRACTOR TO PROVIDE DRAWING(S) STAMPED BY A PROFESSIONAL ENGINEER FOR STEEL REINFORCING DESIGN FOR CAST-IN-PLACE STRUCTURES.

INLET COVER MATRIX

INLET SIZE		INLET COVER TYPE	ALL A'S	ALL B'S	BW	F	ALL H'S	S	T	V	WM
	WIDTH Ⓦ (FT)	LENGTH Ⓛ (FT)									
2X2-FT	2	2	X	X				X		X	
2X2.5-FT	2	2.5			X			X	X	X	X
2X3-FT	2	3					X				
2.5X3-FT	2.5	3				X					

PIPE MATRIX

INLET SIZE	MAXIMUM INSIDE PIPE DIAMETER	
	WIDTH (IN)	LENGTH (IN)
2X2-FT	12	12
2X2.5-FT	12	18
2X3-FT	12	24
2.5X3-FT	18	24



DETAIL "A"

INLETS 2X2-FT, 2X2.5-FT, 2X3-FT AND 2.5X3-FT

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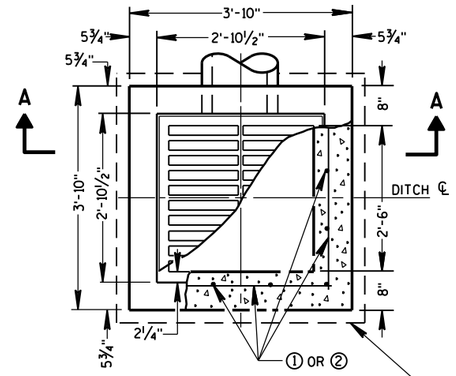
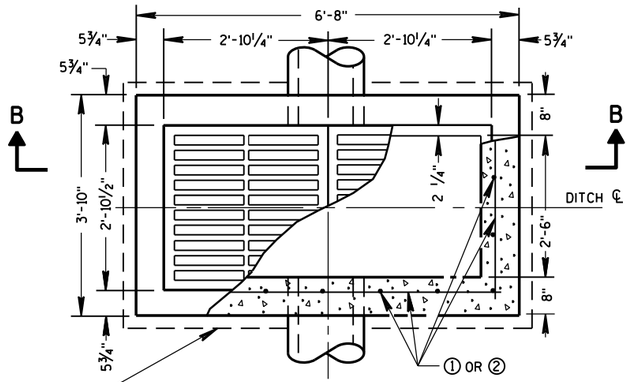
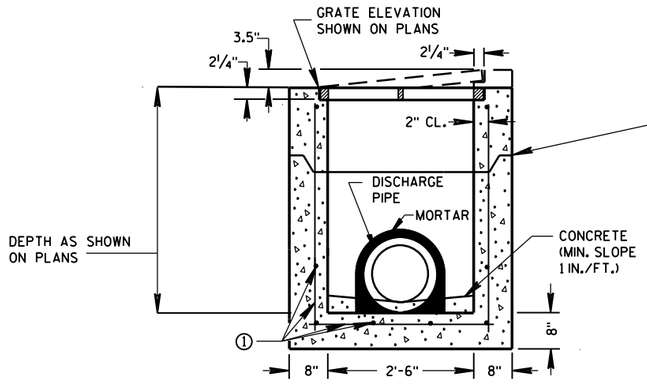


PLAN VIEW

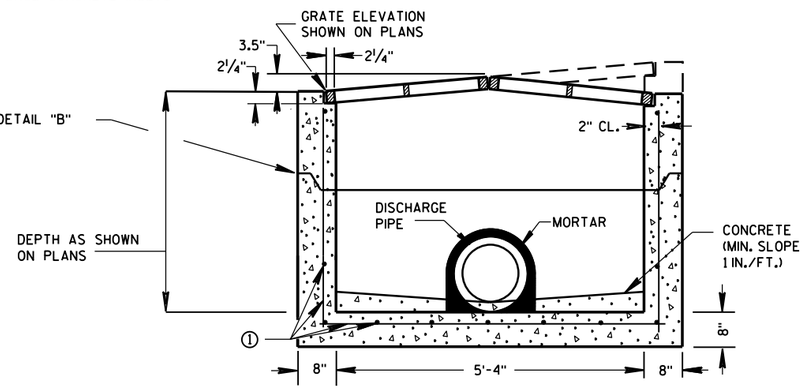


PLAN VIEW

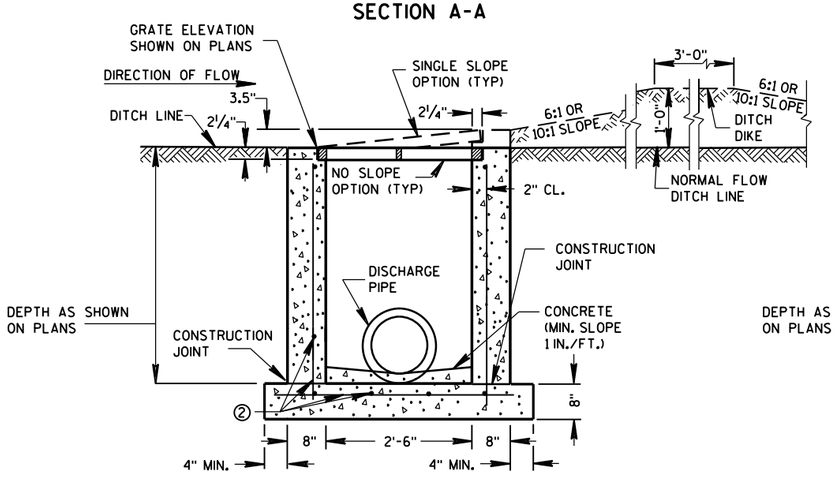
4" OVERHANGING BASE ON REINFORCED CAST-IN-PLACE CONCRETE INLETS



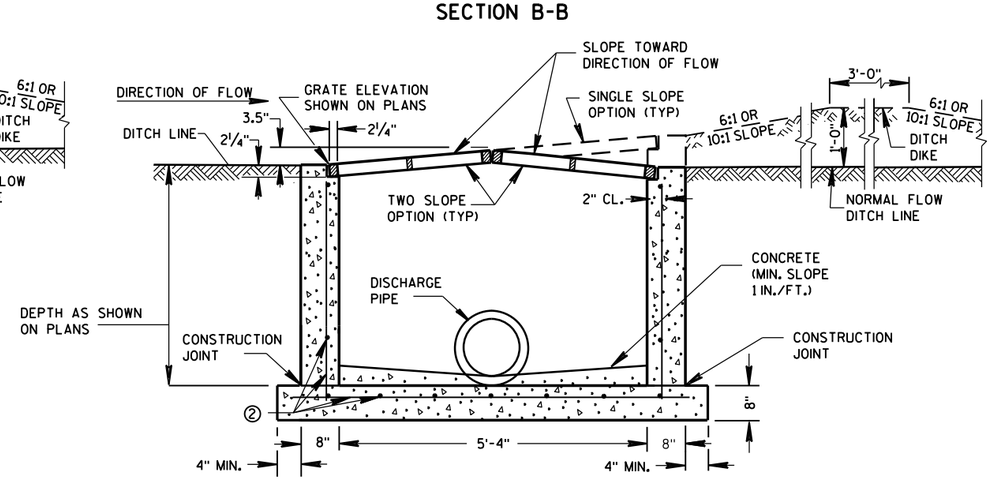
PRECAST REINFORCED CONCRETE SECTION A-A



PRECAST REINFORCED CONCRETE SECTION B-B



REINFORCED CAST-IN-PLACE CONCRETE SECTION A-A



REINFORCED CAST-IN-PLACE CONCRETE SECTION B-B

INLETS MEDIAN 1 GRATE

INLETS MEDIAN 2 GRATE

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.

UNLESS OTHERWISE AUTHORIZED IN WRITING BY THE ENGINEER, THE CONTRACTOR SHALL NOT ORDER AND DELIVER PRECAST INLET UNITS REQUIRED FOR THE PROJECT UNTIL A LIST OF SIZES IS FURNISHED BY THE ENGINEER.

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.

ALL MEDIAN INLETS ARE DESIGNATED ON THE PLANS AS "INLETS, 1G-MS", ETC. THE FIRST NUMBER AND LETTER DESIGNATE THE TYPE OF STRUCTURE, AND THE FOLLOWING LETTERS DESIGNATE THE TYPE OF COVER TO BE USED TO COMPRISE THE COMPLETE UNIT.

BASES SHALL BE PLACED ON A BED OF MATERIAL AT LEAST 6 INCHES IN DEPTH, WHICH MEETS THE REQUIREMENTS OF FOUNDATION BACKFILL. THIS BEDDING SHALL BE COMPACTED AND PROVIDE UNIFORM SUPPORT FOR THE ENTIRE AREA OF THE BASE.

ALL BAR STEEL REINFORCEMENT SHALL BE EMBEDDED 2 INCHES CLEAR UNLESS OTHERWISE SHOWN OR NOTED.

PRECAST REINFORCED RISERS SHALL HAVE A TONGUE AND GROOVE JOINT WITH TONGUE UP OR DOWN.

ALL PRECAST INLET UNITS SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF ASTM C 913.

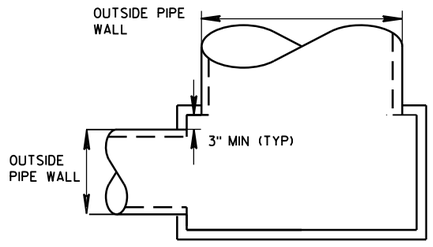
MAXIMUM INSIDE PIPE DIAMETER DETERMINED BY 3" CLEARANCE ON EACH SIDE OF THE OUTSIDE WALL OF THE PIPE. SEE DETAIL "A". ASSUMES PIPE ENTERS PERPENDICULAR TO THE STRUCTURE.

① FOR PRECAST INLETS PROVIDE REINFORCING STEEL IN ACCORDANCE TO ASTM C 913.

② CONTRACTOR TO PROVIDE DRAWING(S) STAMPED BY A PROFESSIONAL ENGINEER FOR STEEL REINFORCING DESIGN FOR CAST-IN-PLACE STRUCTURES.

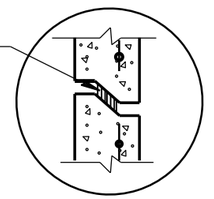
PIPE MATRIX

	MAXIMUM INSIDE PIPE DIAMETER	
INLET SIZE	WIDTH (IN)	LENGTH (IN)
1 GRATE	18	18
2 GRATE	18	42



DETAIL "A"

JOINTS TO BE SEALED WITH A BUTYL RUBBER SEAL PER SEALANT MANUFACTURERS RECOMMENDATIONS CONFORMING TO ASTM C 990 (TYP)



DETAIL "B"

INLETS MEDIAN 1 AND 2 GRATE

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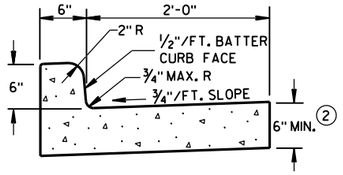
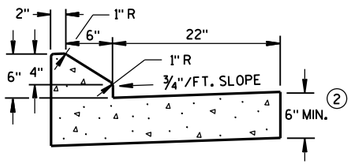
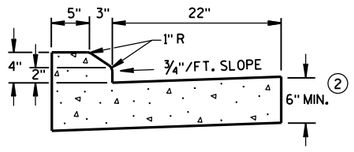


TYPES A & D ①

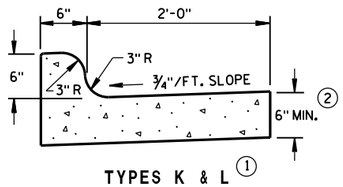


6" SLOPED CURB TYPES G & J ①

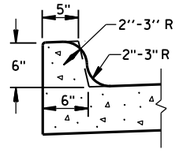


4" SLOPED CURB TYPES G & J ①

CONCRETE CURB & GUTTER 30"

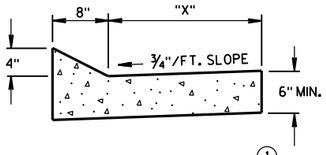


TYPES K & L ①



OPTIONAL CURB SHAPE FOR TYPES K & L ①

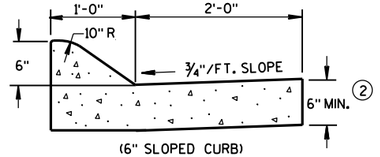
CONCRETE CURB & GUTTER 30"



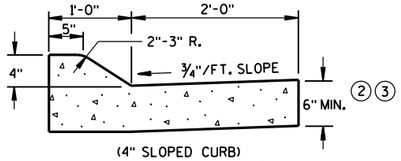
TYPES TBT & TBTT ①

CONCRETE CURB & GUTTER

TBT & TBTT	"X"
30"	22"
36"	28"

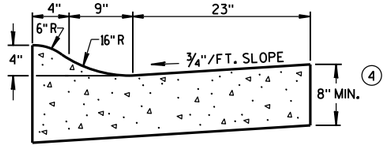


(6" SLOPED CURB)



(4" SLOPED CURB)

TYPES A & D ①



4" SLOPED CURB TYPES R & T ①⑤

CONCRETE CURB & GUTTER 36"

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 AGGREGATE AND COMMON EXCAVATION LIMITS ARE 2'-0" BEHIND THE BACK OF CURBS.

① TIE BARS ARE REQUIRED FOR CURB AND GUTTER TYPES A, G, K, R AND TBTT.

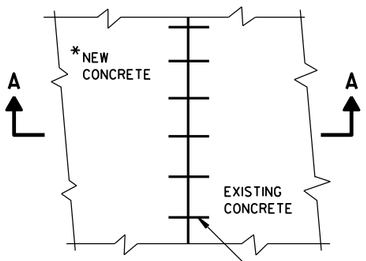
② THE BOTTOM OF CURB AND GUTTER MAY BE CONSTRUCTED EITHER LEVEL OR PARALLEL TO THE SLOPE OF THE SUBGRADE OR BASE AGGREGATE PROVIDED A 6" MINIMUM GUTTER THICKNESS IS MAINTAINED.

③ USE 8" MINIMUM GUTTER THICKNESS WHEN USED WITH AN ADJACENT CONCRETE TRUCK APRON PLACED BEHIND BACK OF CURB.

④ THE BOTTOM OF CURB AND GUTTER MAY BE CONSTRUCTED EITHER LEVEL OR PARALLEL TO THE SLOPE OF THE SUBGRADE OR BASE AGGREGATE PROVIDED A 8" MINIMUM GUTTER THICKNESS IS MAINTAINED.

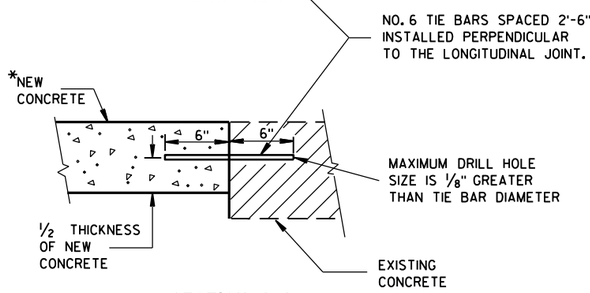
⑤ THE FACE OF CURB IS 6" FROM THE BACK OF CURB.

⑥ WHEN REVERSE SLOPE GUTTER IS REQUIRED, THE LOCATION(S) WILL BE SHOWN ELSEWHERE IN THE PLAN.



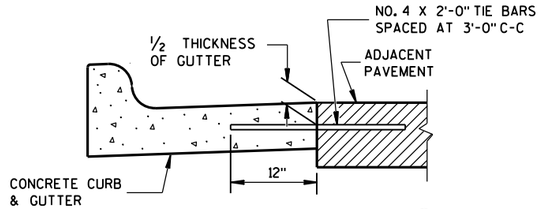
PLAN VIEW

*NEW CURB & GUTTER, SURFACE DRAINS, CONCRETE PAVEMENT OR OTHER NEW CONCRETE.

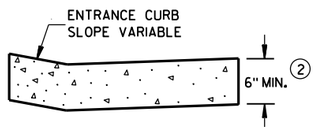


SECTION A-A

TIE BARS DRILLED INTO EXISTING PAVEMENT

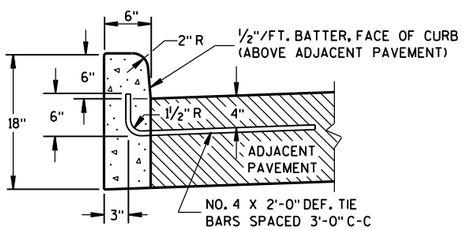


TYPICAL TIE BAR LOCATION ①

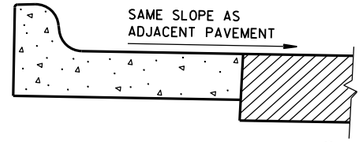


DRIVEWAY ENTRANCE CURB

(WHEN DIRECTED BY THE ENGINEER)

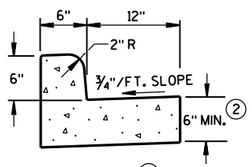


① TYPES A & D



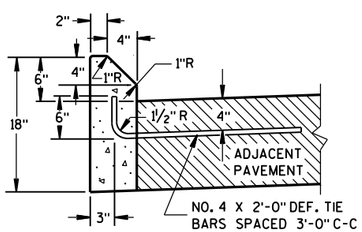
⑥ REVERSE SLOPE GUTTER

(TYPICAL FOR ALL CURB & GUTTER TYPES)



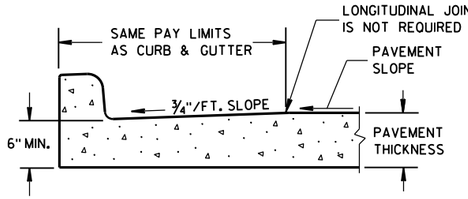
① TYPES A & D

CONCRETE CURB & GUTTER 18"

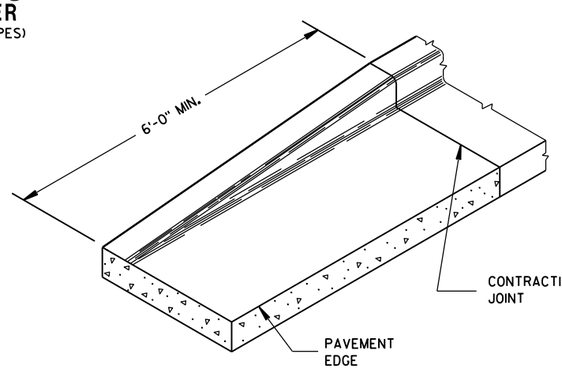


① TYPES G & J

CONCRETE CURB



PARTIAL SECTION OF PAVEMENT WITH INTEGRAL CURB & GUTTER



END SECTION CURB & GUTTER

CONCRETE CURB, CONCRETE CURB & GUTTER AND TIES

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED

June, 2016 — DATE

/S/ Jerry H. Zogg — ROADWAY STANDARDS DEVELOPMENT ENGINEER

FHWA

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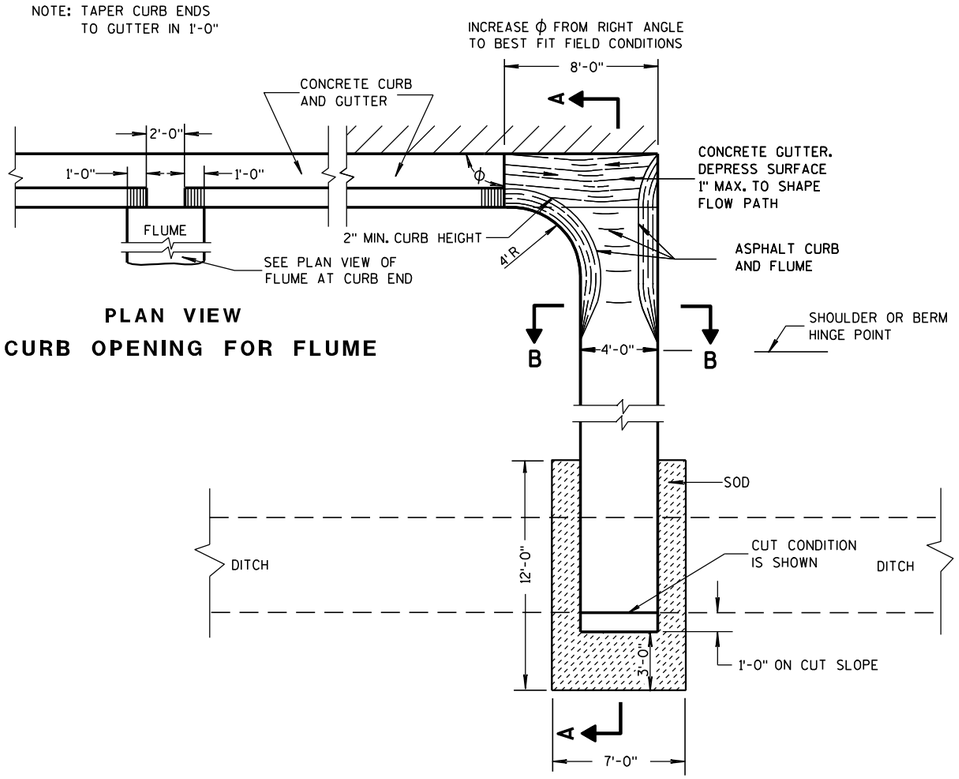
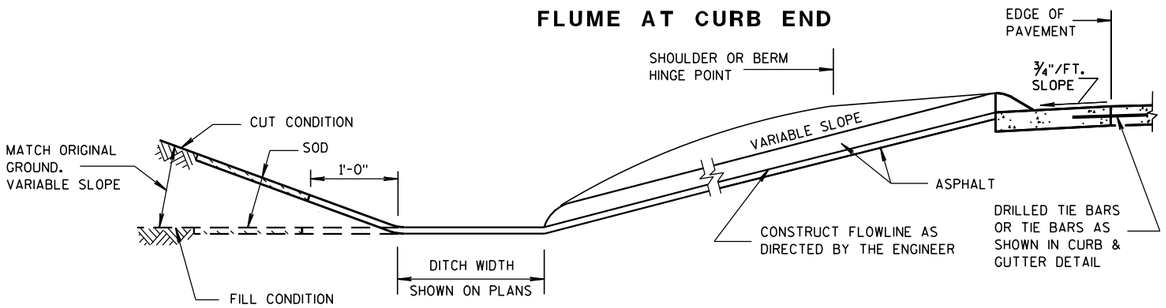
S.D.D. 8 D 1-19

ASPHALTIC FLUME

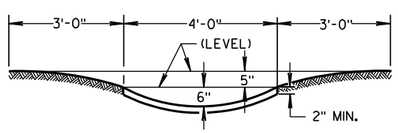


PLAN VIEW
CURB OPENING FOR FLUME

PLAN VIEW
FLUME AT CURB END



SECTION A-A



SECTION B-B

GENERAL NOTES

DETAILS OF CONSTRUCTION, MATERIALS AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS AND APPLICABLE SPECIAL PROVISIONS.

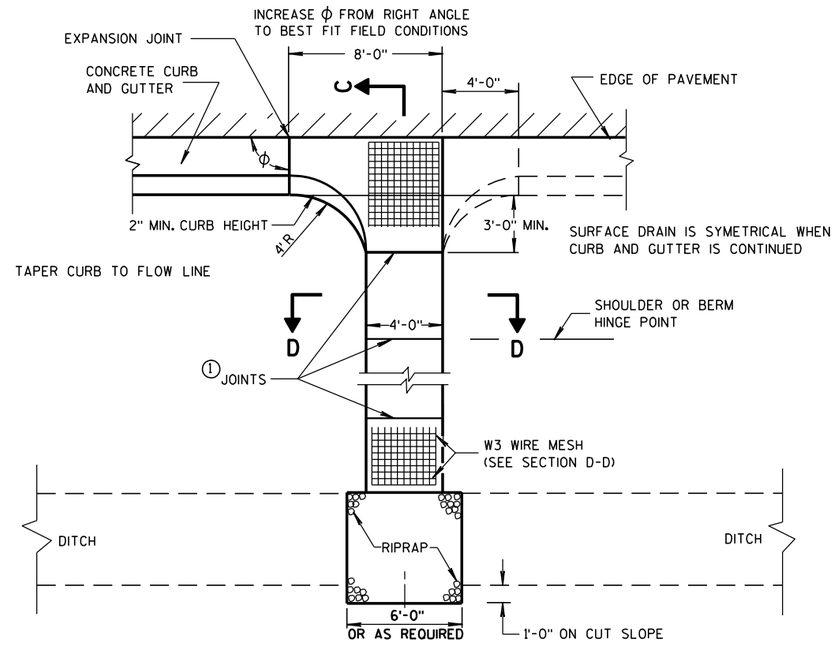
WELDED STEEL WIRE FABRIC SHALL BE IN ACCORDANCE WITH AASHTO SPECIFICATION M55.

① JOINTS SHALL BE $\frac{1}{8}$ TO $\frac{1}{4}$ INCH WIDE BY $1\frac{1}{2}$ INCHES DEEP AND SPACED AT UNIFORM INTERVALS OF APPROXIMATELY 4 FEET.

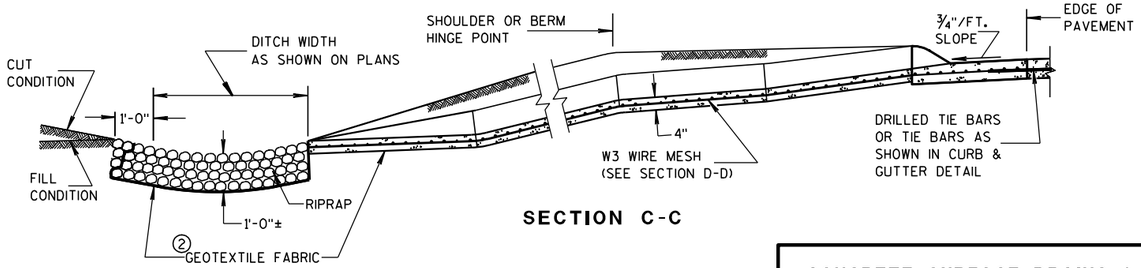
② GEOTEXTILE FABRIC TYPE "R" SHALL UNDERLAY THE FULL LENGTH AND WIDTH OF THE CONCRETE SURFACE DRAIN AND RIPRAP.

③ CONCRETE SURFACE DRAIN WITHOUT CURB AND GUTTER MAY BE USED ON BACKSLOPES WHEN SPECIFIED

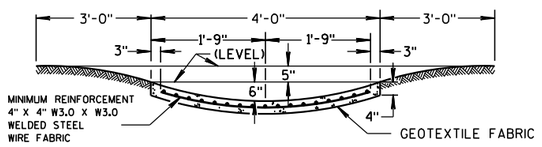
③ CONCRETE SURFACE DRAIN



PLAN VIEW



SECTION C-C



SECTION D-D

CONCRETE SURFACE DRAINS & ASPHALTIC FLUMES

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
9-4-08 DATE
/S/ Jerry H. Zogg
ROADWAY STANDARDS ENGINEER
MENT
FHWA

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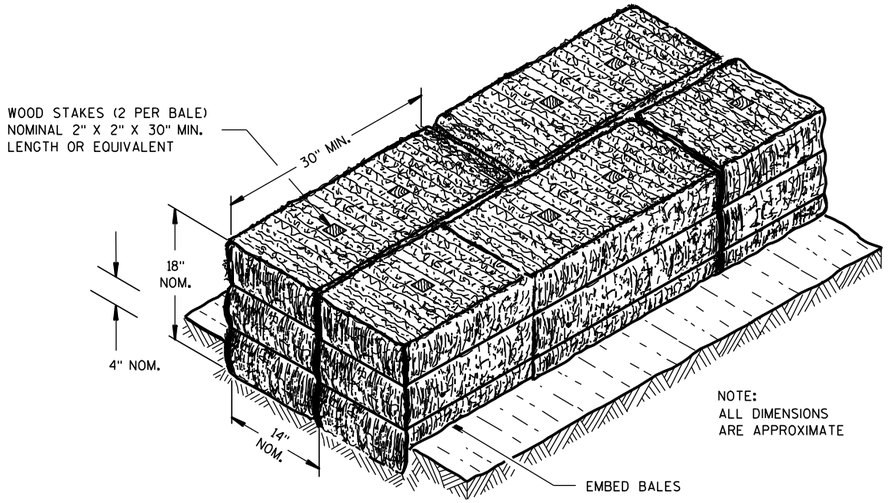
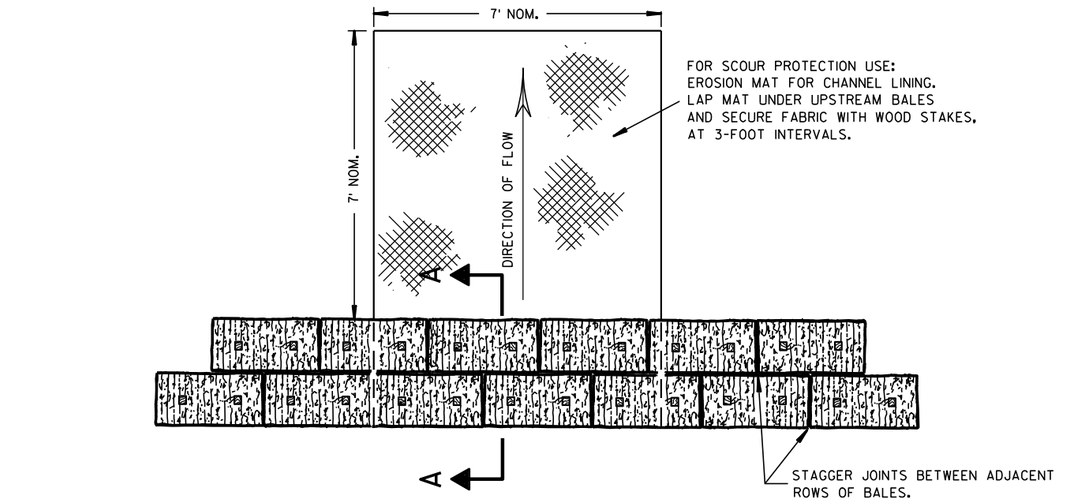
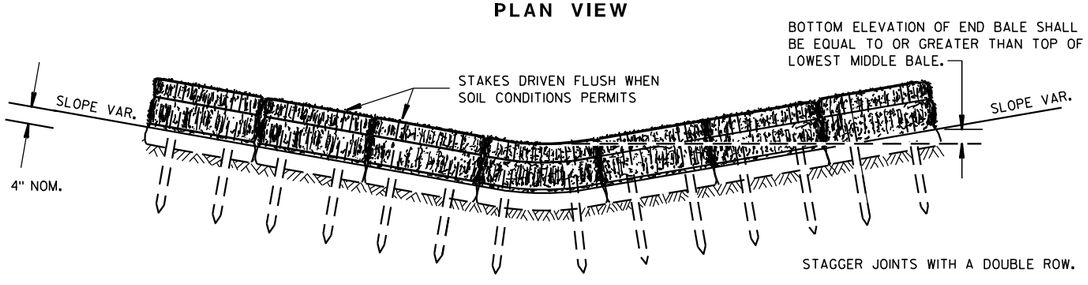
S.D.D. 8 D 4-5



SECTION A-A



PLAN VIEW



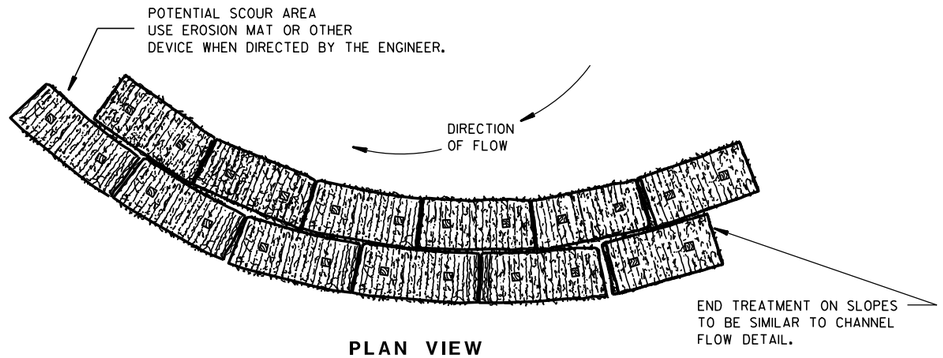
FRONT ELEVATION

TEMPORARY DITCH CHECK USING EROSION BALES (1)

GENERAL NOTES

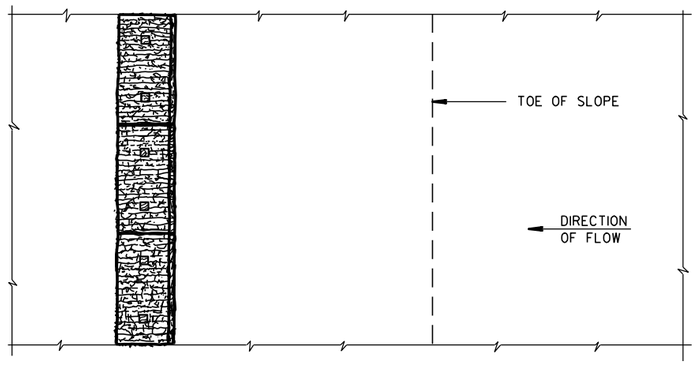
DETAILS OF CONSTRUCTION, MATERIALS AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS AND THE APPLICABLE SPECIAL PROVISIONS.

(1) TEMPORARY DITCH CHECKS EITHER EROSION BALES OR MANUFACTURED SHALL BE PAID FOR UNDER THE BID ITEM OF TEMPORARY DITCH CHECK. THE DEPARTMENT WILL NOT PAY FOR TEMPORARY DITCH CHECKS CONSTRUCTED OF A SINGLE ROW OF EROSION BALES.

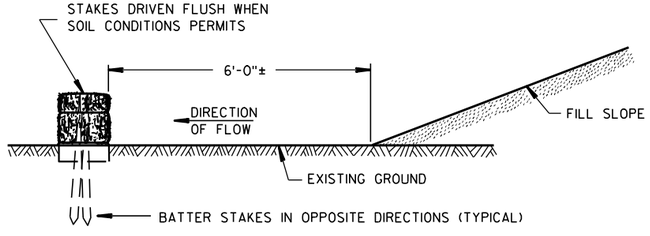


PLAN VIEW

WHEN ALTERING THE DIRECTION OF FLOW



PLAN VIEW



FRONT ELEVATION

WHEN EXISTING GROUND SLOPES AWAY FROM FILL SLOPE

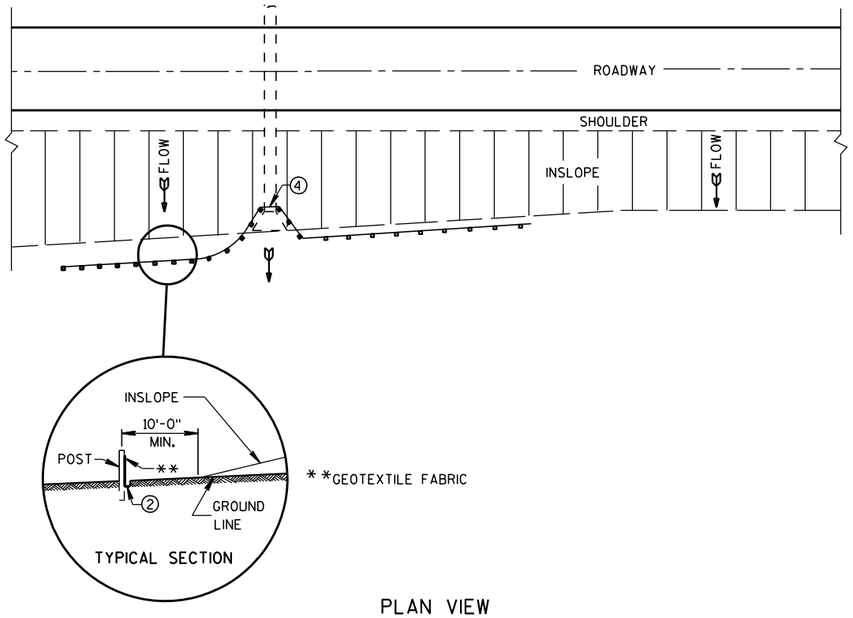
EROSION BALES FOR SHEET FLOW

TYPICAL INSTALLATIONS OF EROSION BALES / TEMPORARY DITCH CHECKS

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

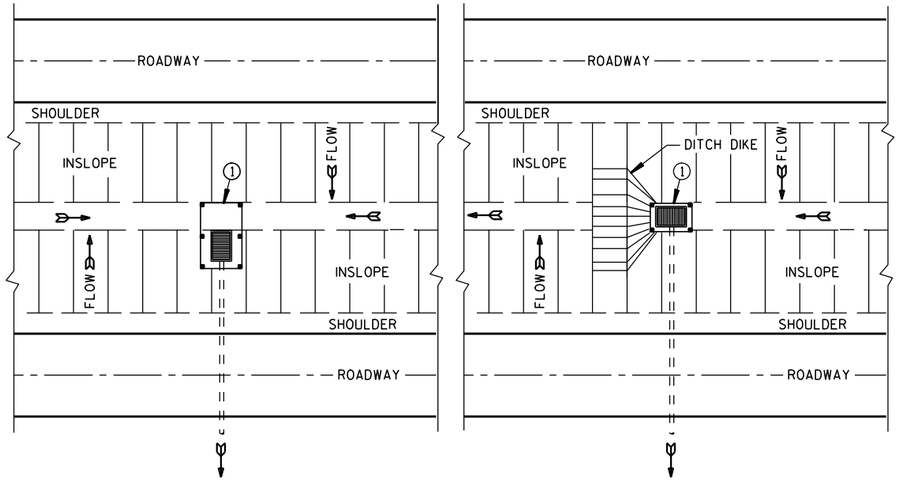
APPROVED
6/04/02 — DATE
/S/ Beth Cannestra — CHIEF ROADWAY DEVELOPMENT ENGINEER
FHWA

6
S.D.D. 8 E 8-3



PLAN VIEW

TYPICAL APPLICATION OF SILT FENCE



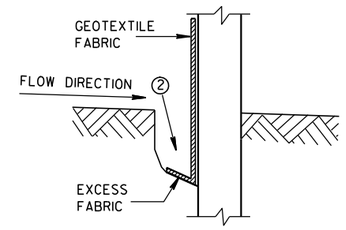
PLAN VIEW

SILT FENCE AT MEDIAN SURFACE DRAINS

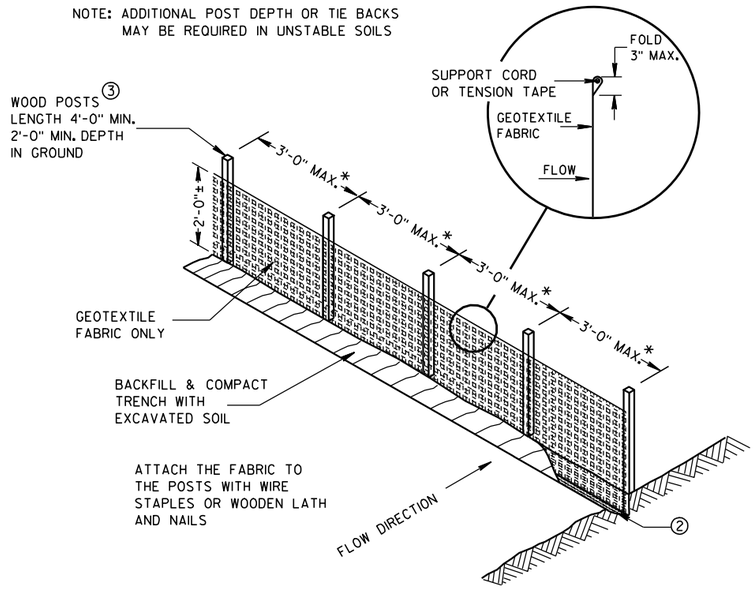
GENERAL NOTES

DETAILS OF CONSTRUCTION NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS AND APPLICABLE SPECIAL PROVISIONS.

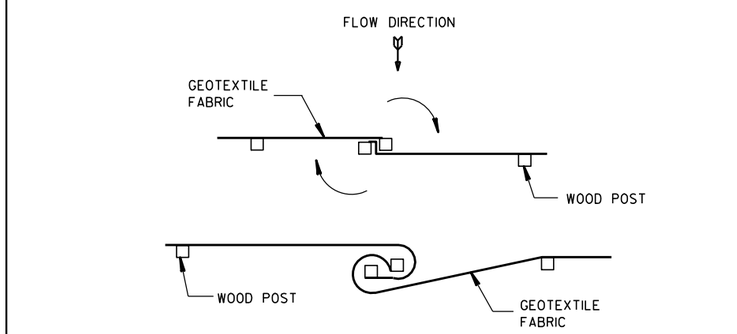
1. HORIZONTAL BRACE REQUIRED WITH 2" X 4" WOODEN FRAME OR EQUIVALENT AT TOP OF POSTS.
2. FOR MANUAL INSTALLATIONS THE TRENCH SHALL BE A MINIMUM OF 4" WIDE & 6" DEEP TO BURY AND ANCHOR THE GEOTEXTILE FABRIC. FOLD MATERIAL TO FIT TRENCH AND BACKFILL & COMPACT TRENCH WITH EXCAVATED SOIL.
3. WOOD POSTS SHALL 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.



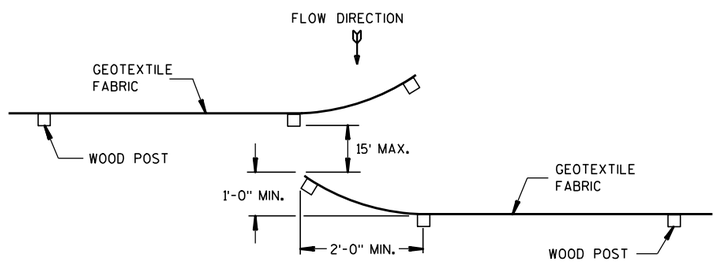
TRENCH DETAIL



SILT FENCE

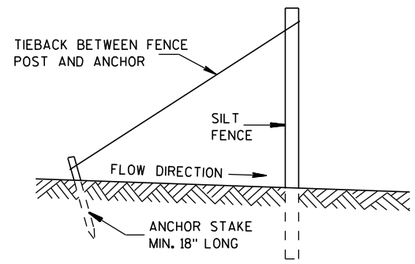


TWIST METHOD



HOOK METHOD

JOINING TWO LENGTHS OF SILT FENCE 5

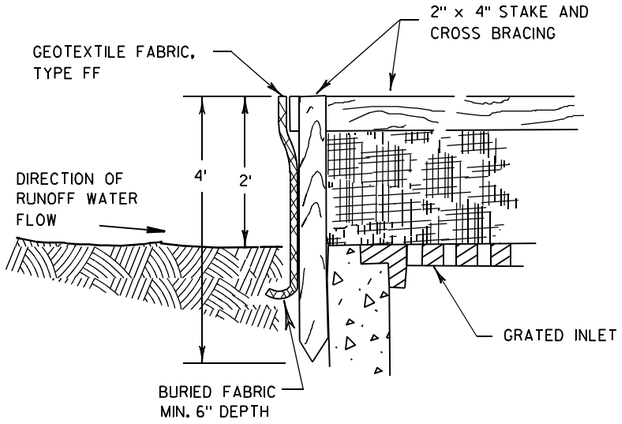


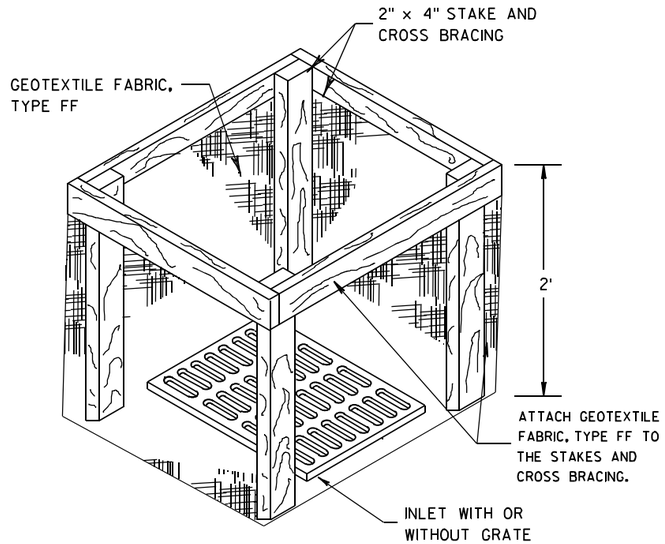
SILT FENCE TIE BACK

(WHEN REQUIRED BY THE ENGINEER)

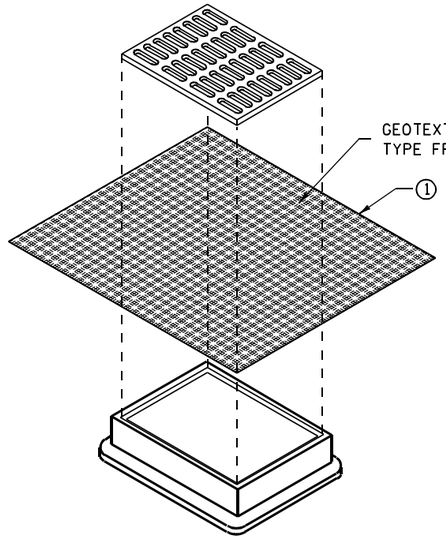
SILT FENCE	
STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION	
APPROVED	
4-29-05 DATE	/S/ Beth Cannestra CHIEF ROADWAY DEVELOPMENT ENGINEER
FHWA	

6
S.D.D. 8 E 9-6



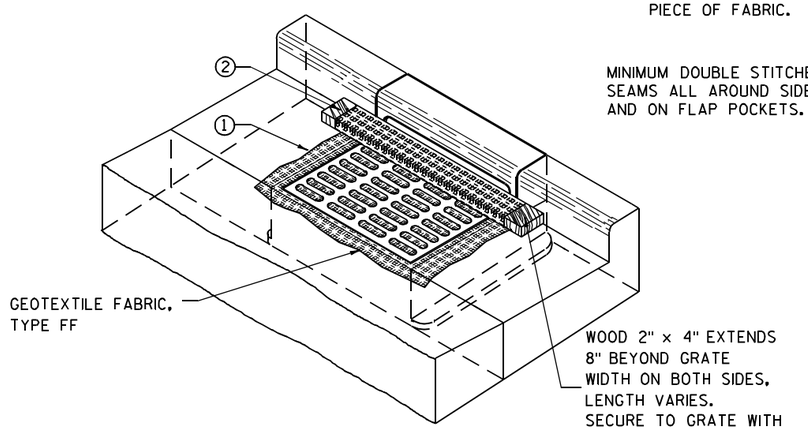


INLET PROTECTION, TYPE A

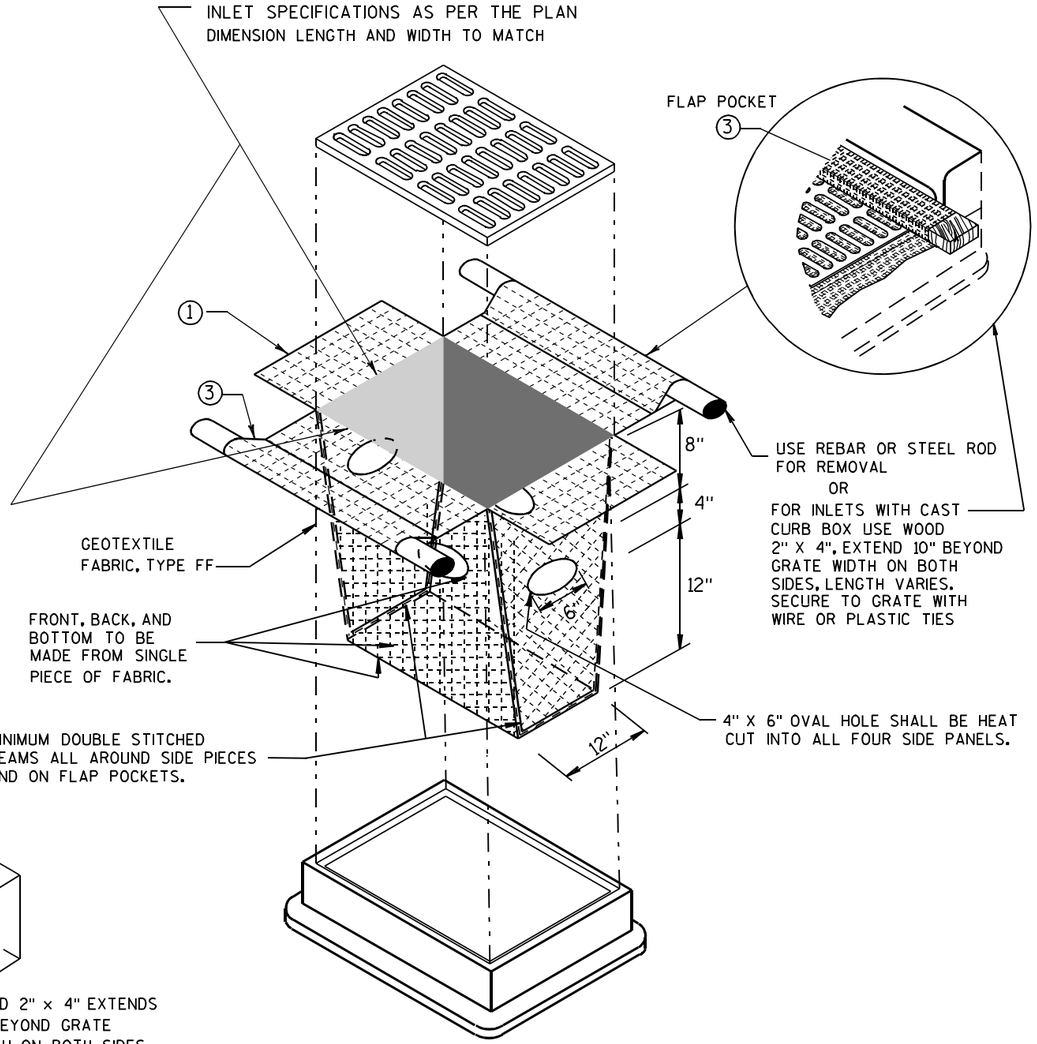


INLET PROTECTION, TYPE B
(WITHOUT CURB BOX)

(CAN BE INSTALLED IN ANY INLET WITHOUT A CURB BOX)



INLET PROTECTION, TYPE C (WITH CURB BOX)



INLET PROTECTION, TYPE D

(CAN BE INSTALLED IN ANY INLET TYPE WITH
OR WITHOUT A CURB BOX AS PER NOTE ②)

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

/S/ Beth Cannestra
CHIEF ROADWAY DEVELOPMENT ENGINEER

FHWA

6

S.D.D. 8 E 10-2

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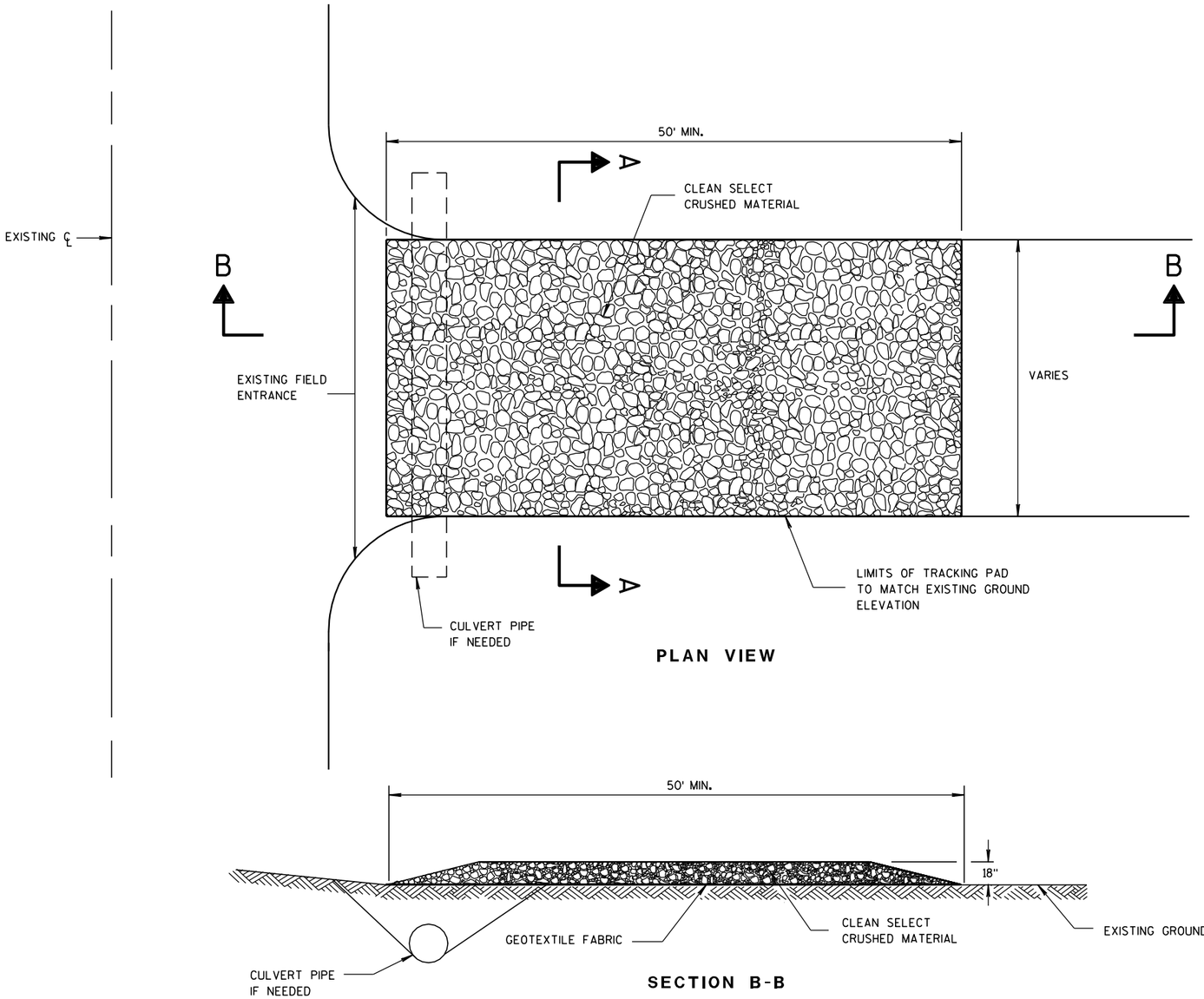
S.D.D. 8 E 10-2



PLAN VIEW

SECTION B-B

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.

TRACKING PAD SHALL BE INSPECTED DAILY. DEFICIENT AREAS SHALL BE REPAIRED OR REPLACED IMMEDIATELY.

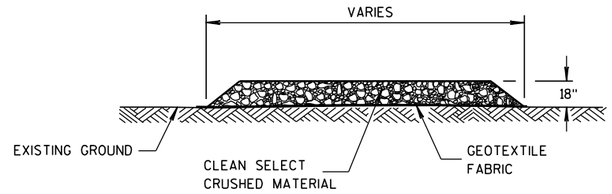
TRACKING PAD TO BE REMOVED AFTER CONSTRUCTION IS COMPLETED.

TRACKING PAD SHALL BE THE FULL WIDTH OF THE EGRESS POINT.

SURFACE WATER MUST BE PREVENTED FROM PASSING THROUGH THE TRACKING PAD. FLOWS SHALL BE DIVERTED AWAY, AROUND OR CONVEYED UNDER THE TRACKING PAD.

CULVERT PIPE OR OTHER BMP USED TO DIVERT WATER AWAY, AROUND OR UNDER THE TRACKING PAD SHALL BE DESIGNED TO CONVEY THE 2 YEAR - 24 HOUR EVENT.

THE COST OF ADDITIONAL BMP TO DIVERT WATER ARE INCIDENTAL TO THE TRACKING PAD BID ITEM.



SECTION A-A

TRACKING PAD

TRACKING PAD	
STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION	
APPROVED 3/24/2011 DATE FHWA	/S/ Jerry H. Zoda ROADWAY STANDARDS ENGINEER

6

S.D.D. 8 E 14-1

6

S.D.D. 8 E 14-1

METAL APRON ENDWALLS

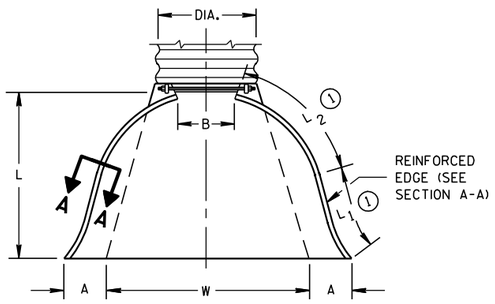
PIPE DIA. (IN.)	MIN. THICK. (Inches) STEEL	MIN. THICK. (Inches) ALUM.	DIMENSIONS (Inches) A (±1")	B (MAX.)	H (±1")	L (±1 1/2")	L1 ①	L2 ①	W (±2")	APPROX. SLOPE	BODY
12	.064	.060	6	6	6	21	12	17 1/2	24	2 1/2 to 1	1 Pc.
15	.064	.060	7	8	6	26	14	21 3/4	30	2 1/2 to 1	1 Pc.
18	.064	.060	8	10	6	31	15	28 1/4	36	2 1/2 to 1	1 Pc.
21	.064	.060	9	12	6	36	18	29 5/8	42	2 1/2 to 1	1 Pc.
24	.064	.075	10	13	6	41	18	37 1/4	48	2 1/2 to 1	1 Pc.
30	.079	.075	12	16	8	51	18	52 1/4	60	2 1/2 to 1	1 Pc.
36	.079	.105	14	19	9	60	24	59 3/4	72	2 1/2 to 1	2 Pc.
42	.109	.105	16	22	11	69	24	75 5/8	84	2 1/2 to 1	2 Pc.
48	.109	.105	18	27	12	78	24	81	90	2 1/4 to 1	3 Pc.
54	.109	.105	18	30	12	84	30	85 1/2	102	2 1/4 to 1	3 Pc.
60	.109×	.105×	18	33	12	87	—	—	114	2 to 1	3 Pc.
66	.109×	.105×	18	36	12	87	—	—	120	2 to 1	3 Pc.
72	.109×	.105×	18	39	12	87	—	—	126	2 to 1	3 Pc.
78	.109×	.105×	18	42	12	87	—	—	132	1 1/2 to 1	3 Pc.
84	.109×	.105×	18	45	12	87	—	—	138	1 1/2 to 1	3 Pc.
90	.109×	.105×	18	37	12	87	—	—	144	1 1/2 to 1	3 Pc.
96	.109×	.105×	18	35	12	87	—	—	150	1 1/2 to 1	3 Pc.

× EXCEPT CENTER PANEL SEE GENERAL NOTES

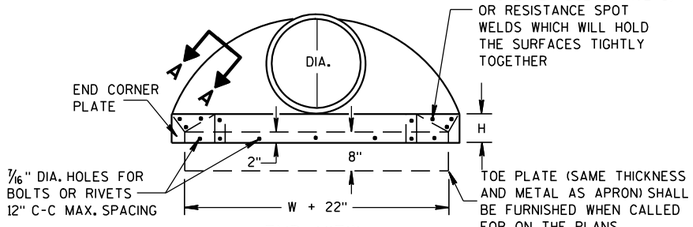
REINFORCED CONCRETE APRON ENDWALLS

PIPE DIA. (IN.)	DIMENSIONS (Inches) T	A	B	C	D	E	G	APPROX. SLOPE
12	2	4	24	48 7/8	72 1/8	24	2	3 to 1
15	2 1/4	6	27	46	73	30	2 1/4	3 to 1
18	2 1/2	9	27	46	73	36	2 1/2	3 to 1
21	2 3/4	9	36	37 1/2	73 1/2	42	2 3/4	3 to 1
24	3	9 1/2	43 1/2	30	73 1/2	48	3	3 to 1
27	3 1/4	10 1/2	49 1/2	24	73 1/2	54	3 1/4	3 to 1
30	3 1/2	12	54	19 3/4	73 1/2	60	3 1/2	3 to 1
36	4	15	63	34 3/4	97 3/4	72	4	3 to 1
42	4 1/2	21	63	35	98	78	4 1/2	3 to 1
48	5	24	72	26	98	84	5	3 to 1
54	5 1/2	27	65	* 33 1/4 - ** 35	* 98 1/4 - ** 100	90	5 1/2	2 2/5 to 1
60	6	* 30 - ** 35	60	39	99	96	5	2 to 1
66	6 1/2	* 24 - ** 30	* 72 - ** 78	* 21 - ** 27	99	102	5 1/2	2 to 1
72	7	* 24 - ** 36	78	21	99	108	6	2 to 1
78	7 1/2	* 24 - ** 36	78	21	99	114	6 1/2	2 to 1
84	8	36	90 1/2	21	111 1/2	120	6 1/2	1 1/2 to 1
90	8 1/2	41	87 1/2	24	111 1/2	132	6 1/2	1 1/2 to 1

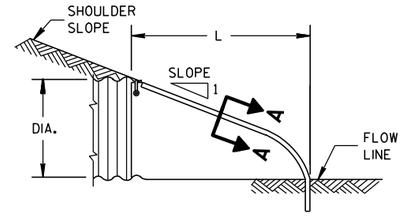
*MINIMUM
**MAXIMUM



PLAN VIEW

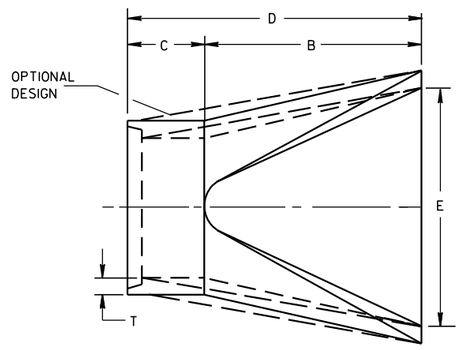


END VIEW

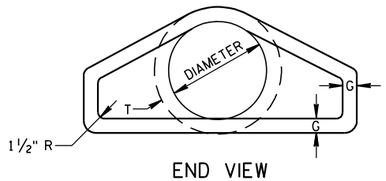


SIDE ELEVATION

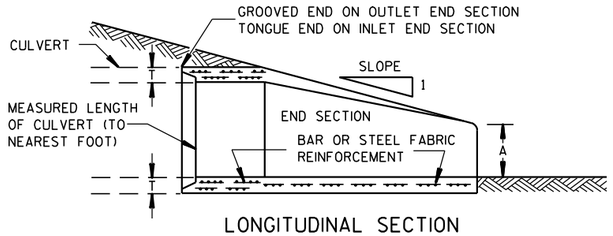
METAL ENDWALLS



PLAN

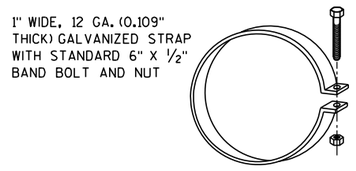


END VIEW



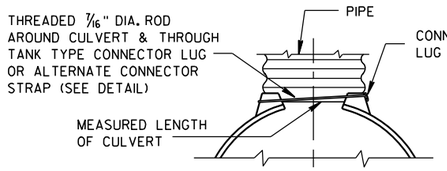
LONGITUDINAL SECTION

CONCRETE ENDWALLS

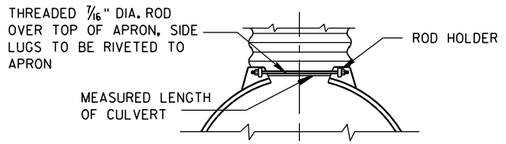


ALTERNATE FOR TYPE 1 CONNECTION

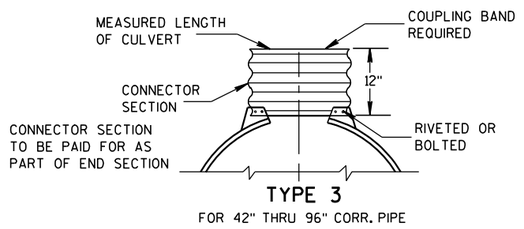
END SECTION CONNECTOR STRAP



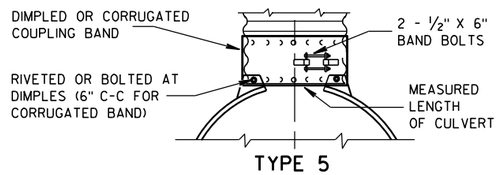
TYPE 1
FOR 12" THRU 24" CORR. PIPE



TYPE 2
FOR 30" THRU 96" CORR. PIPE



TYPE 3
FOR 42" THRU 96" CORR. PIPE



TYPE 5
ALTERNATE FOR:
ALL SIZES CORRUGATED CIRCULAR PIPE

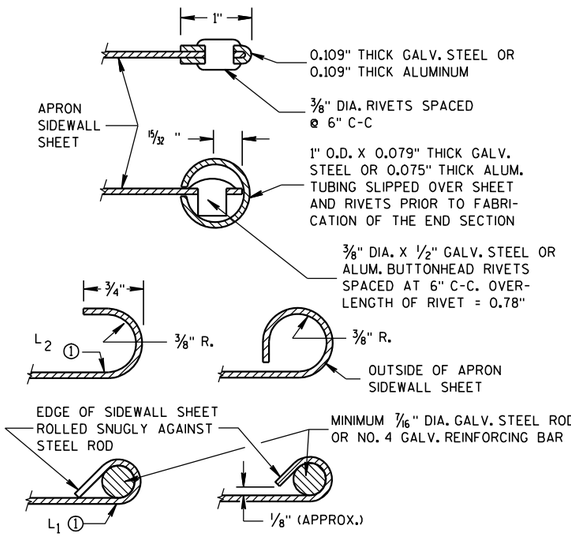
NOTE: DIMPLED BAND FITS OVER OUTSIDE OF ENDWALL. AND CORRUGATED BAND FITS INSIDE ENDWALL. DIMPLED BAND MAY BE USED WITH HELICALLY CORRUGATED PIPE.

FOR CIRCUMFERENTIALLY CORRUGATED PIPE USE ENDWALL CONNECTION DETAILS 1, 2, 3 OR 5 AS APPLICABLE.

FOR HELICALLY CORRUGATED PIPE USE ENDWALL CONNECTION DETAILS 1, 2 OR 5.

FOR HELICALLY CORRUGATED PIPES WITH TWO CIRCUMFERENTIAL CORRUGATIONS AT EACH END USE ENDWALL CONNECTION DETAILS 1, 2 OR 3.

CONNECTION DETAILS



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.

CONCRETE CULVERT ENDWALLS MAY NOT BE USED WITH GALVANIZED STEEL OR ALUMINUM CULVERT PIPE OR VISE VERSA. GALVANIZED STEEL OR ALUMINUM ENDWALLS SHALL NORMALLY BE INSTALLED ON CULVERT PIPE OF THE SAME METAL.

ALL THREE PIECE STEEL APRON ENDWALLS FOR 60" DIAMETER PIPE AND LARGER SHALL HAVE 0.109" SIDES AND 0.138" CENTER PANELS. ALL THREE PIECE ALUMINUM APRON ENDWALLS FOR 60" DIAMETER PIPE AND LARGER SHALL HAVE 0.105" SIDES AND 0.134" CENTER PANELS. THE WIDTH OF CENTER PANELS SHALL BE GREATER THAN 20 PERCENT OF THE PIPE PERIMETER.

LAP SEAMS SHALL BE TIGHTLY JOINED BY GALVANIZED RIVETS OR BOLTS FOR STEEL UNITS AND ALUMINUM RIVETS AND BOLTS FOR ALUMINUM UNITS. FOR THE 60" THROUGH 96" DIAMETER APRON ENDWALL SIZES, THE REINFORCED EDGES AND CENTER PANEL SEAMS SHALL BE FURTHER REINFORCED WITH GALVANIZED STEEL OR ALUMINUM STIFFENER ANGLES. THE ANGLES SHALL BE ATTACHED BY GALVANIZED NUTS AND BOLTS FOR STEEL UNITS AND ALUMINUM NUTS AND BOLTS FOR ALUMINUM UNITS.

WHERE TWO OR MORE PIPES WITH APRON ENDWALLS ARE LAID ADJACENT TO EACH OTHER, THEY SHALL BE SEPARATED BY A DISTANCE SUFFICIENT TO PROVIDE A MINIMUM CLEARANCE OF 6 INCHES BETWEEN APRON ENDWALLS.

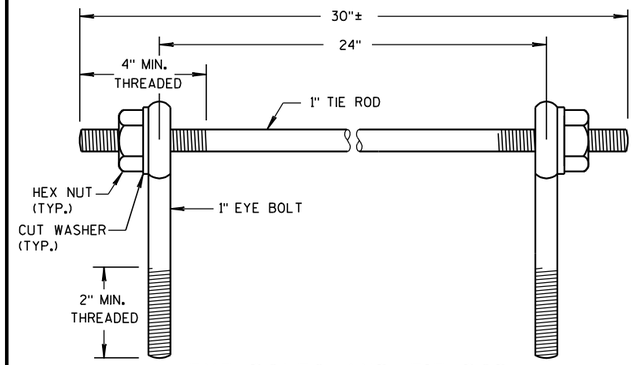
① FOR PIPE SIZES UP TO 60" DIAMETER, A 180° ROLLED EDGE MAY BE USED INSTEAD OF STEEL ROD REINFORCEMENT. SEE SECTION A-A.

APRON ENDWALLS FOR CULVERT PIPE

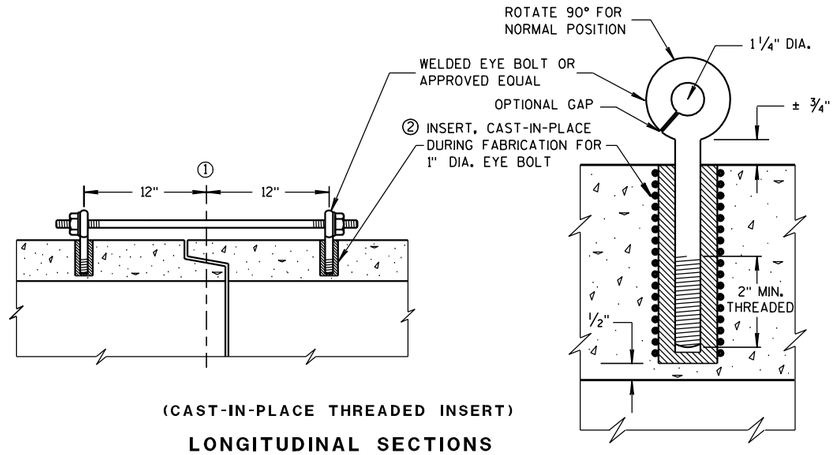
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
11/30/94 DATE
/S/ Rory L. Rhinesmith
CHIEF ROADWAY DEVELOPMENT ENGINEER
FHWA

6
S.D.D. 8 F 1-11



EYE BOLTS AND TIE ROD



(CAST-IN-PLACE THREADED INSERT)

LONGITUDINAL SECTIONS

EYE BOLT AND TIE ROD ASSEMBLY (ALTERNATE NO. 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 APPLICABLE SPECIAL PROVISIONS.

CONCRETE CULVERT AND STORM SEWER PIPE SHALL BE TIED TOGETHER IN THE MANNER ILLUSTRATED BY THIS DETAIL AT LOCATIONS DESIGNATED IN THE STANDARD SPECIFICATIONS AND THE PLAN. THE CONTRACTOR MAY USE EITHER ALTERNATE 1, 2 OR 3 FOR DRAINAGE STRUCTURES. ONLY ALTERNATE 1 AND 3 MAY BE USED FOR CATTLE PASSES, UNLESS OTHERWISE STATED IN THE CONTRACT. THE MATERIALS, FABRICATION AND WORK NECESSARY TO TIE THE PIPE BY THIS DETAIL WILL BE CONSIDERED INCIDENTAL TO THE PIPE AND APRON ENDWALLS IF REQUIRED.

DETAILED DRAWINGS FOR PROPOSED ALTERNATE DESIGNS FOR JOINT TIES SHALL BE SUBMITTED TO THE ENGINEER FOR APPROVAL.

JOINT TIES TO BE HOT-DIP GALVANIZED PER ASTM A 153.

① ℄ OF TONGUE AND GROOVE OR BELL AND SPIGOT JOINTS.

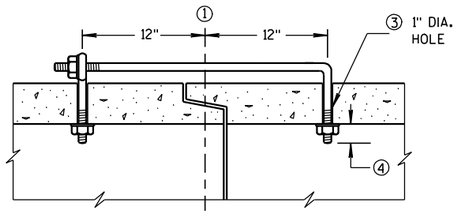
② THE INSIDE OF THE THREADED INSERTS SHALL BE CLEAN TO ALLOW THE INSERTION OF THREADED EYE BOLTS.

③ HOLES SHALL BE CAST-IN-PLACE OR DRILLED 12 INCHES FROM ℄ OF TONGUE AND GROOVE.

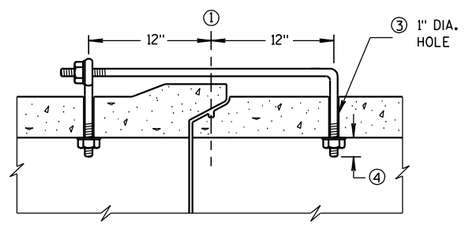
④ BOLT PROJECTION INSIDE OF PIPE SHALL NOT EXCEED 2 INCHES.

⑤ OPENING TO BE ROD DIAMETER PLUS 1 INCH.

⑥ LENGTH ADEQUATE TO EXTEND TO WITHIN 1/2 INCH OF THE INNER SURFACE OF THE PIPE.



(TONGUE & GROOVE PIPE)

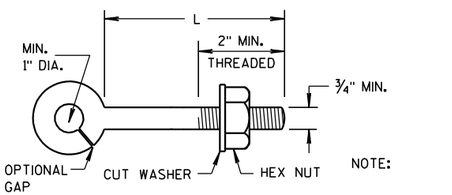


(MODIFIED BELL PIPE)

LONGITUDINAL SECTION

EYE BOLT DIMENSION TABLE

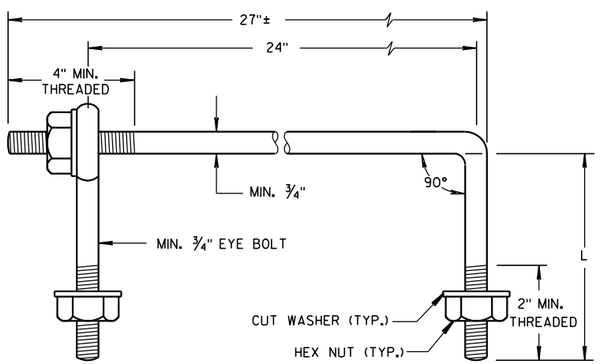
PIPE SIZE	L = LENGTH	
	TONGUE & GROOVE PIPE	MODIFIED BELL PIPE
18" TO 24"	4 1/2"	6 1/4"
30"	5"	7"
36"	5 1/2"	7"
42"	6"	
48"	6 1/2"	
60"	7 1/2"	
66"	8"	



NOTE:

EYE BOLT

NOTE: TWO EYE BOLTS MAY BE USED WITH A 30" LONG THREADED ROD IN LIEU OF THE 90° BENT TIE ROD.



EYE BOLT AND TIE ROD

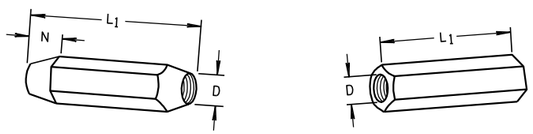
(JOINT TIES FOR 18" TO 66" DIA. CONCRETE PIPE)

EYE BOLT AND TIE ROD ASSEMBLY (ALTERNATE NO. 2)

ADJUSTABLE TIE ROD TABLE

PIPE DIAMETER	TIE ROD DIAMETER	D	L_1	N
12-60	5/8	5/8	5	1/2
66-84	3/4	3/4	5	1/2
90-108	1	1	7	1 1/16

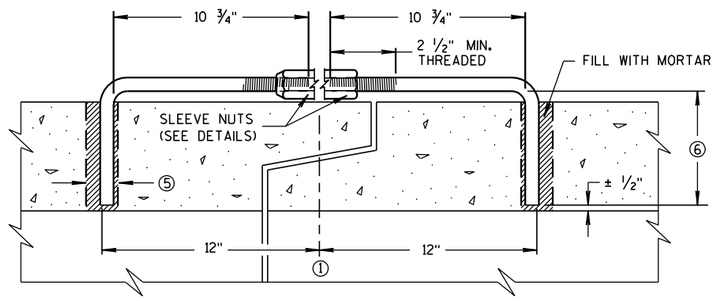
DIMENSIONS SHOWN ARE IN INCHES



TAPERED PLAIN

RIGHT AND LEFT THREADS

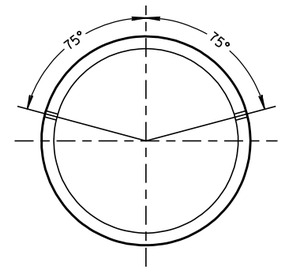
SLEEVE NUTS



LONGITUDINAL SECTION

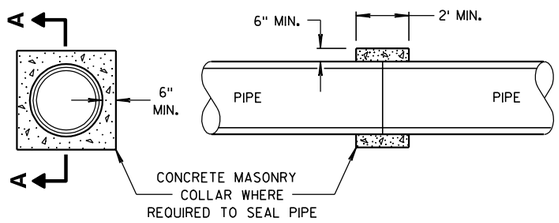
(JOINT TIES FOR 12" TO 108" DIA. CONCRETE PIPE)

ADJUSTABLE TIE ROD (ALTERNATE NO. 3)



PLACEMENT OF (2) CAST-IN-PLACE INSERTS OR HOLES DURING FABRICATION FOR PIPE SECTIONS REQUIRING TIE RODS

TRANSVERSE SECTION



SECTION A-A

CONCRETE COLLAR DETAIL

JOINT TIES FOR CONCRETE PIPE AND CONCRETE COLLAR DETAIL

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
6/5/2012 — DATE
/S/ Jerry H. Zogg — ROADWAY STANDARDS ENGINEER
342
FHWA

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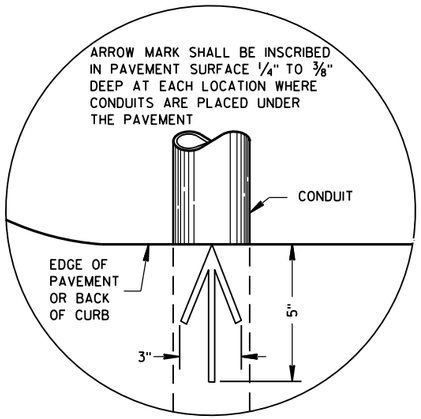
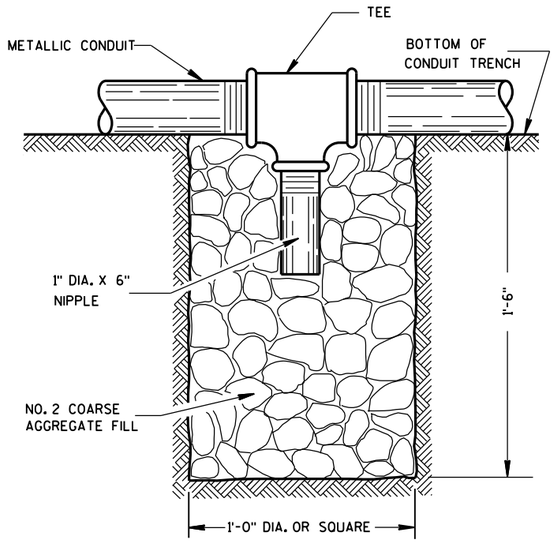
S.D.D. 8 F 4-7



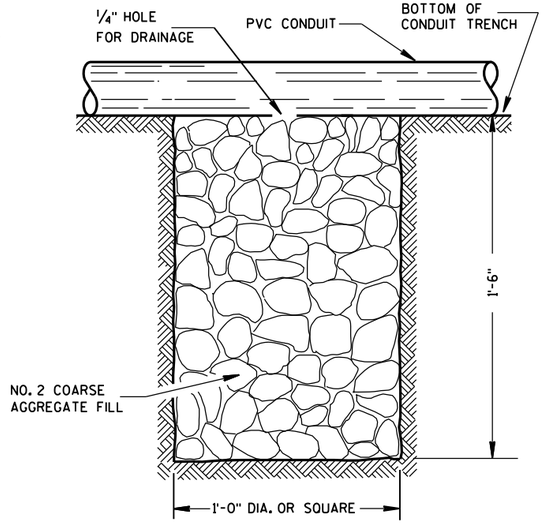
PLAN VIEW

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.

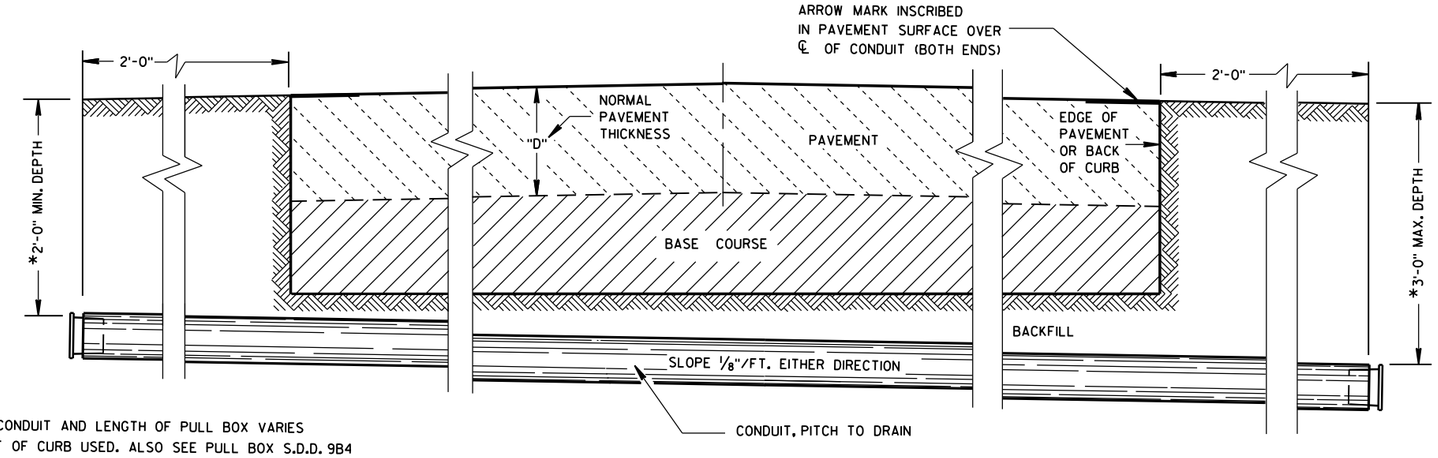
PRIOR TO CONDUIT ACCEPTANCE, CONDUIT CAPS OR PLUGS SHALL BE REMOVED, AND THE CAPS, PLUGS AND CONDUIT ENDS SHALL BE THOROUGHLY CLEANED AND THEN THE CAPS OR PLUGS REINSTALLED TO ENSURE THAT THE CAPS OR PLUGS CAN BE EASILY REMOVED IN THE FUTURE.

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.).

TRACER 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
June, 2015 — DATE
/S/ Ahmet Demirbilek — STATE ELECTRICAL
FHWA

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S.D.D. 9 B 2-9

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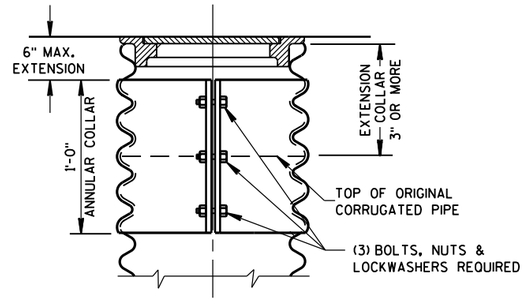
S.D.D. 9 B 2-9

TABLE OF NOMINAL DIMENSIONS AND WEIGHTS

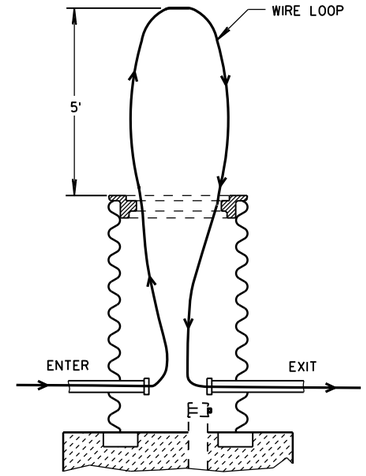
DIMENSION IN INCHES		CORRUGATED STEEL PIPE								
PIPE DIAMETER (INSIDE)	A	12	12	12	18	18	18	24	24	24
PIPE LENGTH **	B	24	30	36	24	30	36	36	42	48
WALL THICKNESS	C	0.064	0.064	0.064	0.064	0.064	0.064	0.064	0.064	0.064
COVER	D	10 1/4	10 1/4	10 1/4	16 1/4	16 1/4	16 1/4	22 1/4	22 1/4	22 1/4
FRAME	E	14 1/2	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.

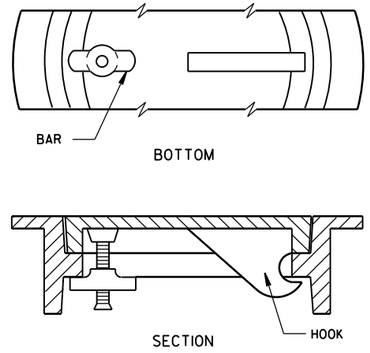
** NORMALLY USED LENGTHS. THE PROJECT ENGINEER SHALL DETERMINE IF PIPE LENGTHS, OTHER THAN THOSE SPECIFIED, SHALL BE USED, TO A MAXIMUM OF 48" (CONTINUOUS LENGTH, NON-SPLICED). THE ADDITIONAL LENGTH SHALL BE INCIDENTAL TO THE PULL BOX BID PRICE.



CORRUGATED PIPE EXTENDER

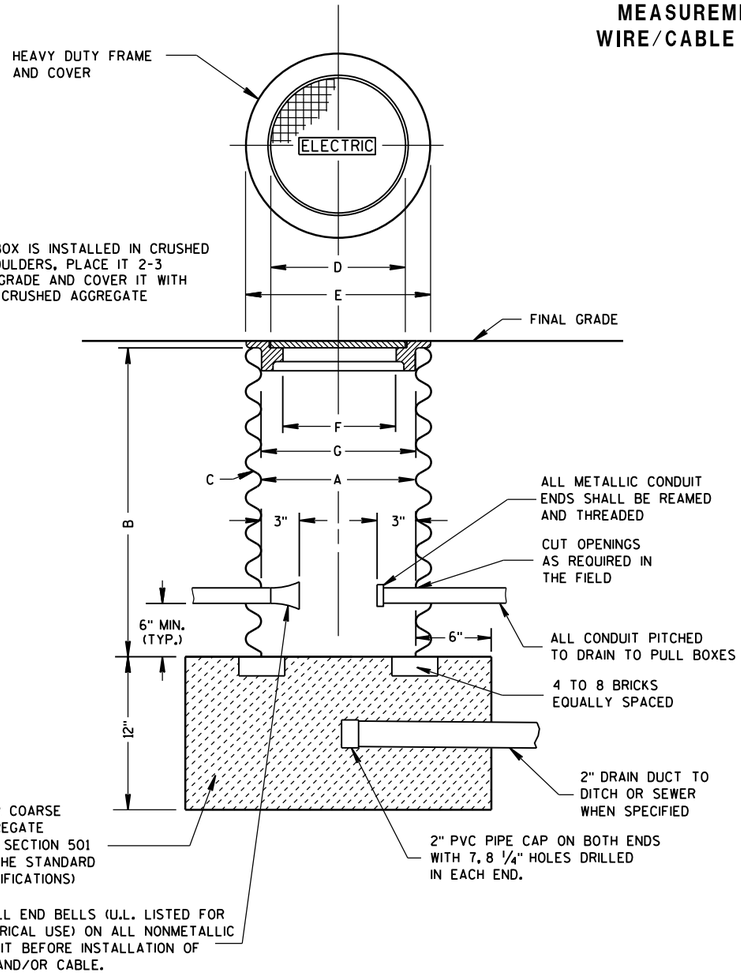


MEASUREMENT DETAIL FOR WIRE/CABLE IN THE PULL BOX



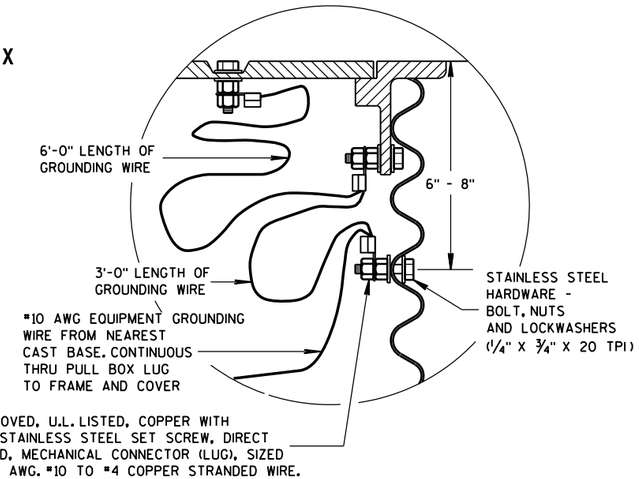
ALTERNATE COVER (LOCKING)

TIGHTENING BAR TYPE

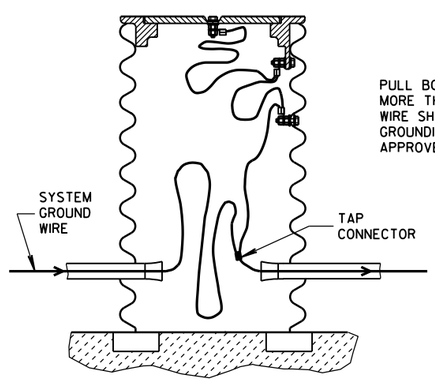


WHEN A PULL BOX IS INSTALLED IN CRUSHED AGGREGATE SHOULDERS, PLACE IT 2-3 INCHES BELOW GRADE AND COVER IT WITH 2-3 INCHES OF CRUSHED AGGREGATE

PULL BOX



EQUIPMENT GROUNDING LUG AND LOCATION IN STEEL PULL BOXES



PULL BOX TO NEAREST BASE DISTANCE MORE THAN 20 FEET. PULL BOX GROUND WIRE SHALL CONNECT AT SYSTEM GROUNDING WIRE. USE DEPARTMENT APPROVED TAP CONNECTOR.

EQUIPMENT GROUNDING LUG AND LOCATION IN STEEL PULL BOXES

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.

ALL METALLIC CONDUIT IN WHICH WIRE AND/OR CABLE IS TO BE INSTALLED, SHALL BE BUSHED BEFORE INSTALLATION OF THE WIRE AND/OR CABLE.

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.

PULL BOX

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
Sept. 2014 — DATE
/S/ Ahmet Demirbilek — STATE ELECTRICAL
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S.D.D. 9 B 4-11

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.

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, U.L. LISTED, COPPER WITH BRASS OR STAINLESS STEEL SET SCREW, DIRECT BURY RATED, MECHANICAL CONNECTOR (LUG), SIZED TO ACCEPT AWG. #10 TO #4 COPPER STRANDED WIRE SHALL BE FURNISHED AND INSTALLED IN THE PEDESTAL AND TRANSFORMER BASES.

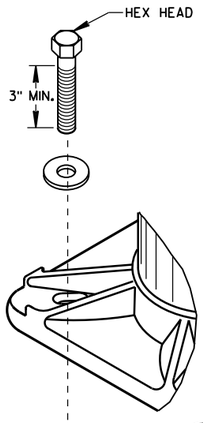
THE MECHANICAL CONNECTOR SHALL BE INSTALLED USING A 1/4" - 20 (TPI) STAINLESS STEEL HEX HEAD BOLT OF SUFFICIENT LENGTH TO FIRMLY ATTACH THE LUG TO THE BASE.

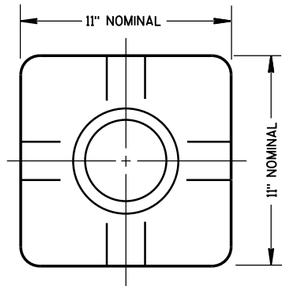
SHOULD THE MANNER OF ATTACHMENT OF THE LUG REQUIRE WASHERS, HEX NUTS, LOCK WASHER - THEY SHALL BE STAINLESS STEEL AS IS THE BOLT. THE MANNER OF ATTACHMENT SHALL NOT BLOCK ACCESSIBILITY TO WIRE PLACEMENT IN THE CONNECTOR.

PEDESTAL BASE COLLAR THREADING SHALL BE TAPERED AND IN ACCORDANCE WITH NATIONAL PIPE THREADING DIMENSIONS.

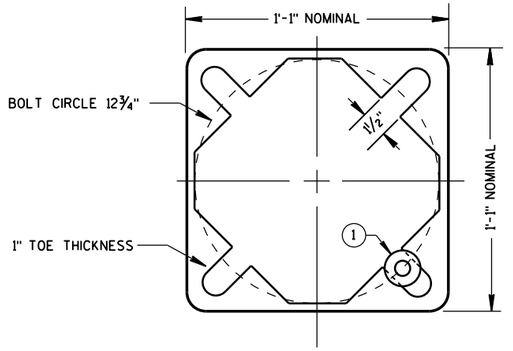
BASE COLLAR THREADING SHALL EXTEND INTO THE BASE COLLAR WITH SUFFICIENT DEPTH TO ACCEPT THE INSTALLATION OF TRAFFIC SIGNAL STANDARDS TO A DEPTH OF 1 1/2", THEN TIGHTENING TO A POINT OF BEING IMMOVABLE.

THE ACCESS DOOR SHALL BE OF THE SAME MATERIAL AS THE BASE.

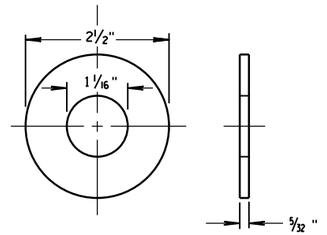




TOP VIEW
(PEDESTAL BASE)

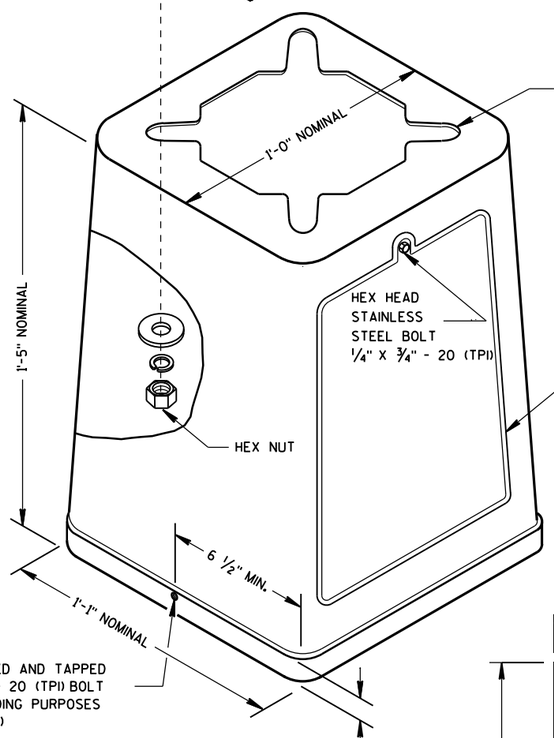


BOTTOM VIEW
(PEDESTAL BASE)

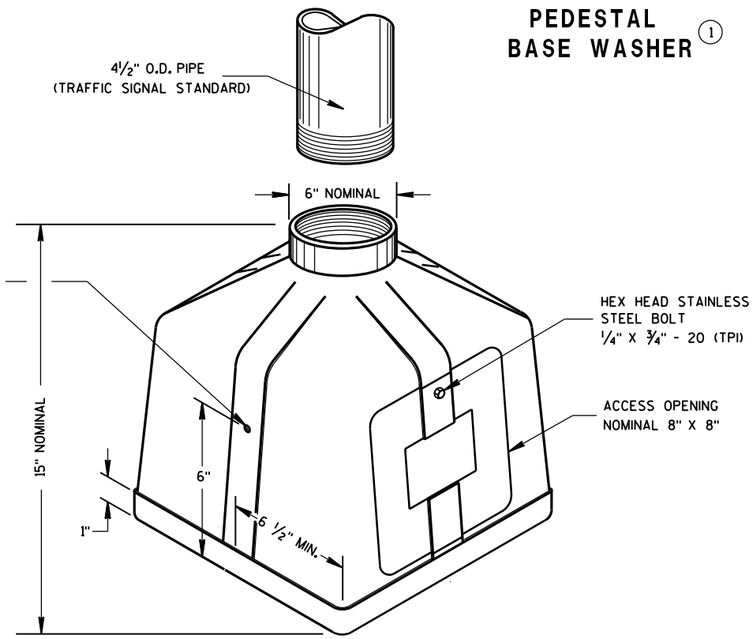


ZINC COATED STEEL WASHER
TO BE PROVIDED BY THE CONTRACTOR

PEDESTAL BASE WASHER (1)

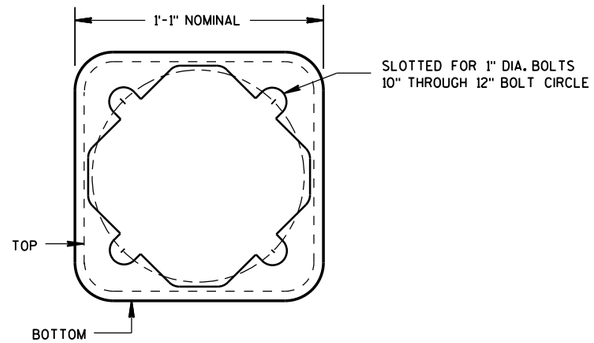


ISOMETRIC VIEW

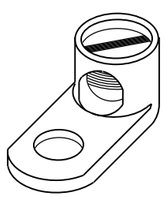


ISOMETRIC VIEW

PEDESTAL BASE



BOTTOM VIEW
(TRANSFORMER BASE)

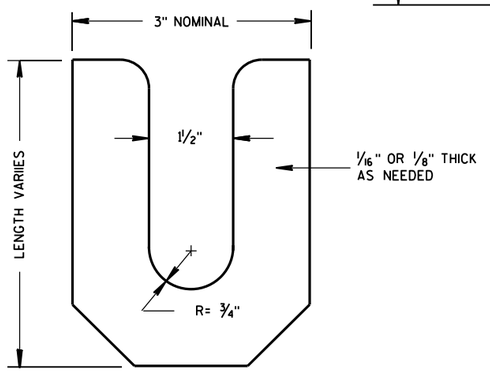


TYPICAL MECHANICAL CONNECTOR LUG

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
Sept. 2014 — DATE
/S/ Ahmet Demirbilek — STATE ELECTRICAL
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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.

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).

THE EQUIPMENT GROUNDING CONDUCTOR SHALL ENTER THE BASE 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 1" X 60".

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 OF THE STANDARD SPECIFICATIONS.

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.

WELDING OF THE ANCHOR RODS TO THE CAGE IS UNACCEPTABLE. TIE WIRES SHALL BE USED.

ANCHOR RODS SHALL BE INSTALLED WITH MISALIGNMENTS OF LESS THAN 1:40 FROM VERTICAL.

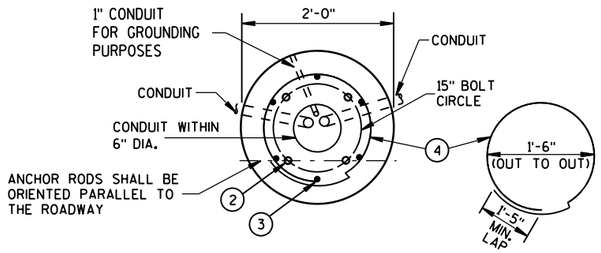
BAR STEEL REINFORCEMENT SHALL BE COATED WITH POWDERED EPOXY RESIN IN ACCORDANCE WITH SECTION 505 OF THE STANDARD SPECIFICATIONS (LATEST EDITION).

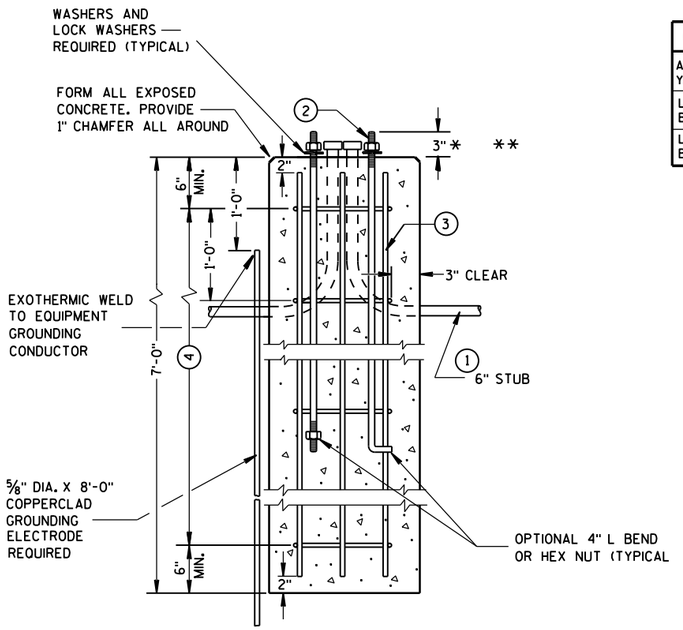
(1) THE MINIMUM DEPTH OF CONDUIT EXITING THE CONCRETE BASE AND INSTALLED BELOW THE TRAVELED WAY SHALL BE 24 INCHES. THE MINIMUM DEPTH OF CONDUIT EXITING THE CONCRETE BASE THAT IS NOT INSTALLED BELOW THE TRAVELED WAY SHALL BE 18 INCHES. THE MAXIMUM DEPTH OF ALL CONDUIT SHALL BE 36 INCHES EXCEPT WITH WRITTEN APPROVAL BY THE ENGINEER.

(2) (4) 1" DIA. X 5'-0" ANCHOR RODS.

(3) (6) NO. 6 X 6'-8" BAR STEEL REINFORCEMENT.

(4) (7) NO. 4 X 6'-2" BAR STEEL REINFORCEMENT @ 1'-0" C-C.

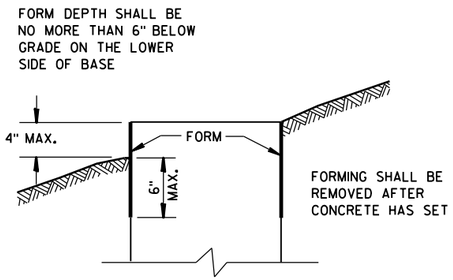




CONCRETE BASE, TYPE 7 (FOR 40' LIGHT POLES)

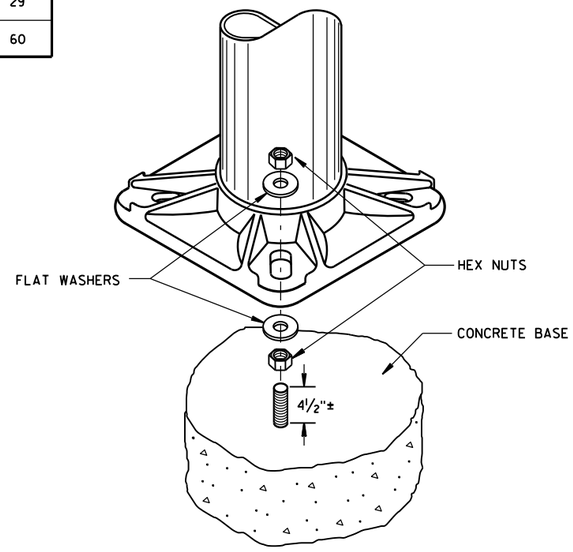
* ANY ANCHOR ROD PROJECTION SHORTER THAN 2¾" OR LONGER THAN 3¼" SHALL REQUIRE THE BASE TO BE REMOVED AND REPLACED AT THE CONTRACTORS EXPENSE.

** FOR NONBREAKAWAY INSTALLATIONS, 4½" ± ANCHOR ROD PROJECTION WITH THE USE OF LEVELING NUTS. RODENT SCREEN REQUIRED.



FORMING DETAIL

QUANTITY REQUIREMENTS	
APPROX. CUBIC YARDS OF CONCRETE	0.8
LBS. OF HOOP BAR STEEL	29
LBS. OF VERTICAL BAR STEEL	60



NON-BREAKAWAY INSTALLATION (LEVELING NUT)

CONCRETE BASE, TYPE 7

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
Sept. 2014 — DATE
/S/ Ahmet Demirbilek — STATE ELECTRICAL
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S.D.D. 9 C 8-5

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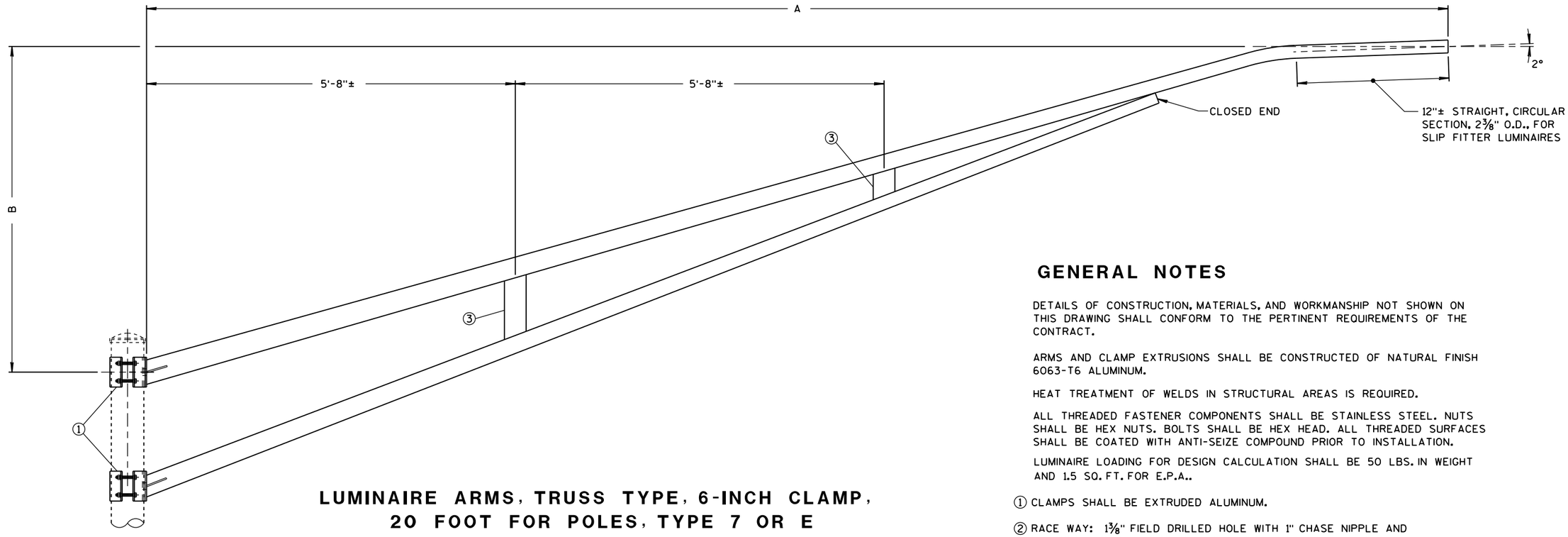

LUMINAIRE ARMS, TRUSS TYPE, 6-INCH CLAMP, 20 FOOT FOR POLES, TYPE 7 OR E

UPPER AND LOWER TRUSS CHORD CLAMPS SIMILIAR

TYPE	DIM. A NOMINAL ARM LENGTH (FT)	DIM. B APPROX. RISE (FT)
TRUSS TYPE	20.0	5.0

GENERAL NOTES

DETAILS OF CONSTRUCTION, MATERIALS, AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE CONTRACT.

ARMS AND CLAMP EXTRUSIONS SHALL BE CONSTRUCTED OF NATURAL FINISH 6063-T6 ALUMINUM.

HEAT TREATMENT OF WELDS IN STRUCTURAL AREAS IS REQUIRED.

ALL THREADED FASTENER COMPONENTS SHALL BE STAINLESS STEEL. NUTS SHALL BE HEX NUTS. BOLTS SHALL BE HEX HEAD. ALL THREADED SURFACES SHALL BE COATED WITH ANTI-SEIZE COMPOUND PRIOR TO INSTALLATION.

LUMINAIRE LOADING FOR DESIGN CALCULATION SHALL BE 50 LBS. IN WEIGHT AND 1.5 SQ. FT. FOR E.P.A..

① CLAMPS SHALL BE EXTRUDED ALUMINUM.

② RACE WAY: 1⅜" FIELD DRILLED HOLE WITH 1" CHASE NIPPLE AND NUT (OR NEOPRENE GROMMET) PER EACH REQUIRED LUMINAIRE ARM. PROVIDE 1½" HOLE IN CLAMP EXTRUSION TO CONTINUE RACEWAY. NOTE: NO RACEWAY ON LOWER TRUSS CORD CLAMP. FOR INFORMATION ONLY.

③ STIFFENER.

④ GUSSETS REQUIRED.

⑤ CLAMP BOLT ASSEMBLY (BOLT - ½"-13 UNC, 2 EACH - FLAT WASHER, LOCK WASHER, NUT) - 4 EACH PER CLAMP.

LUMINAIRE ARMS, TRUSS TYPE 6-INCH CLAMP

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
Sept. 2014 — DATE
/S/ Ahmet Demirbilek — STATE ELECTRICAL
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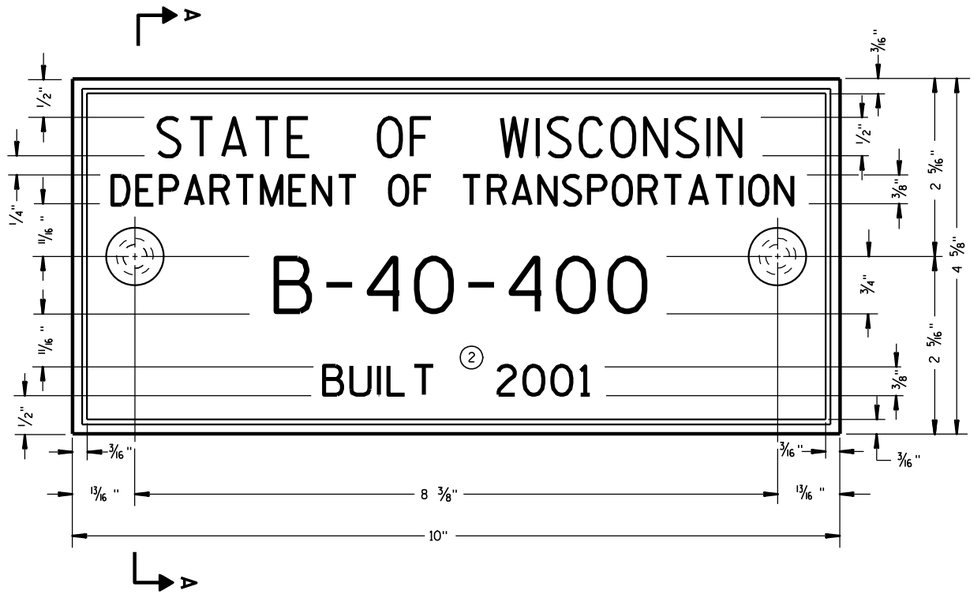
S.D.D. 10 A 18-5b



TYPICAL NAME PLATE
(BRIDGES, CULVERTS, AND RETAINING WALLS)

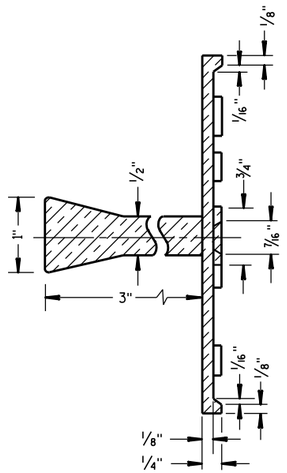
GENERAL NOTES

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.

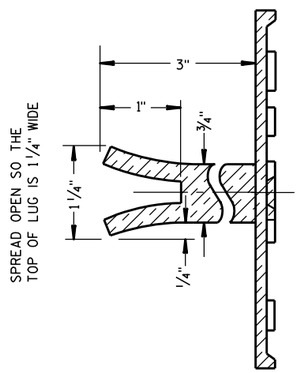
THE BRIDGE NUMBER AND YEAR BUILT SHOWN ON THIS DRAWING ARE EXAMPLES ONLY. SEE CONSTRUCTION PLANS FOR INDIVIDUAL NUMBERING AND YEAR BUILT.

(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

FOR MULTI-UNIT STRUCTURES
LINE 3 ABOVE SHALL READ

B = BRIDGE
C = CULVERT
R = RETAINING WALL

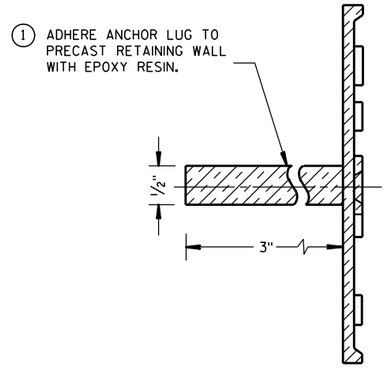
COUNTY NO.

BRIDGE NO.

UNIT NO. FOR MULTIPLE UNIT BRIDGE

B-40-400-1A

NUMBERING DESIGNATION
MULTI-UNIT STRUCTURES



ALTERNATE LUG
(FOR ATTACHMENT TO PRECAST STRUCTURES)

NAME PLATE (STRUCTURES)

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED

3/26/10 DATE

/S/ Scot Beck CHIEF STRUCTURAL DEVELOPMENT ENGINEER

FHWA

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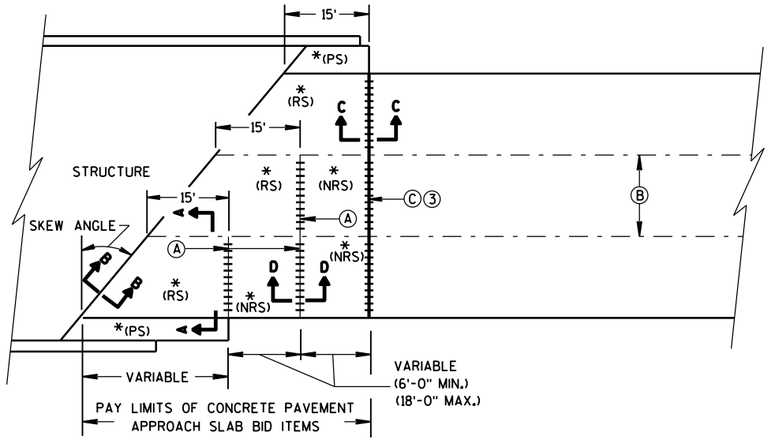
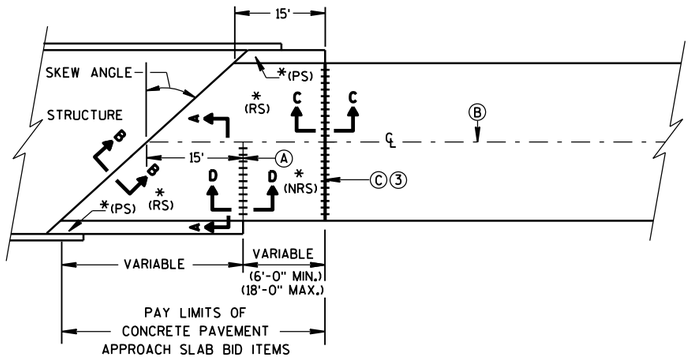
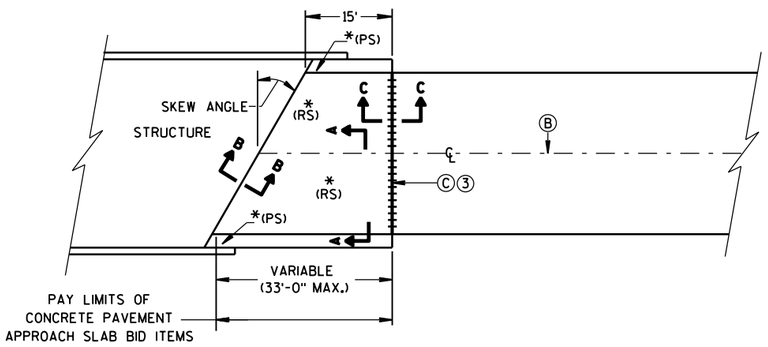
S.D.D. 12 A 3-10



SKEWED APPROACH
(PAVEMENT MORE THAN 2 LANES)



SKEWS >20°
(PAVEMENT WIDTH ≤30')



SKEWS ≤20°
(PAVEMENT WIDTH ≤30')

APPROACH SLAB AND ADJACENT PAVEMENT

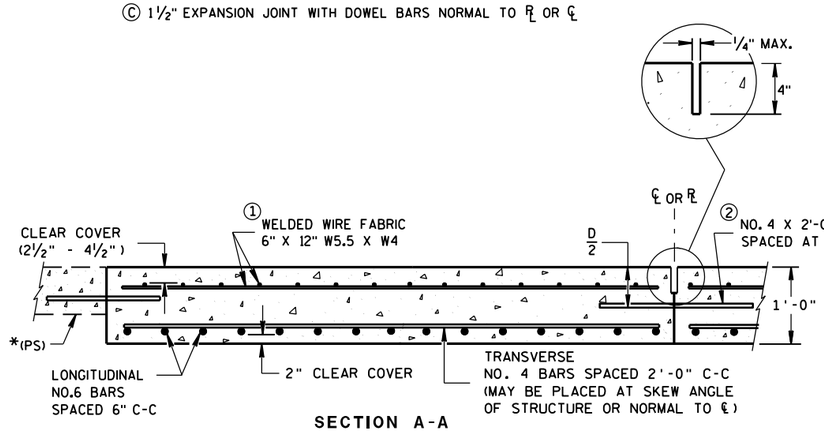
*(RS) = REINFORCED CONCRETE SLAB
*(PS) = PAVED CONCRETE SHOULDER OR CONCRETE DRAINAGE SLAB
(SEE DETAILS ELSEWHERE IN THE PLAN)
*(NRS) = NON-REINFORCED CONCRETE SLAB

***STANDARD DOWEL BAR DIAMETER
(SEE SDD 13C11, & SDD 13C13)

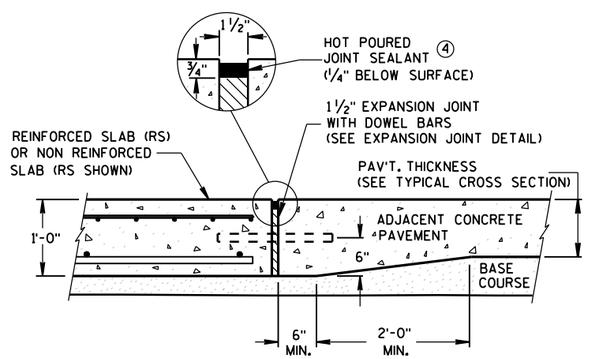
Ⓐ STANDARD CONTRACTION JOINT NORMAL TO ℄ OR ℄

Ⓑ STANDARD LONGITUDINAL JOINT WITH TIE BARS.

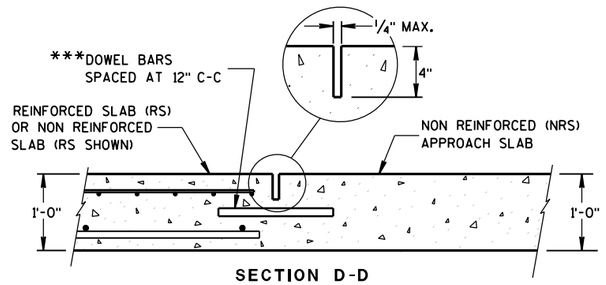
Ⓒ 1½" EXPANSION JOINT WITH DOWEL BARS NORMAL TO ℄ OR ℄



SECTION A-A
REINFORCEMENT POSITIONING DETAIL



SECTION C-C
TRANSITION DETAIL
APPROACH SLAB TO ADJACENT PAVEMENT



SECTION D-D
CONTRACTION JOINT

GENERAL NOTES

THE CONTRACTOR MAY SPLICE NO. 6 BARS IN THE APPROACH SLAB FOR SKEWED STRUCTURES ONLY. STAGGER SPLICES WITH A MAXIMUM OF ONE SPLICE PER BAR. THE LENGTH OF LAP IS 20 INCHES.

TACK WELD DOWEL BARS TO THE BASKETS ON ALTERNATE ENDS.

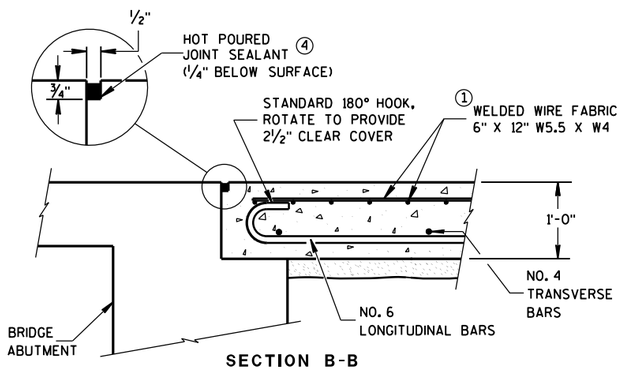
① THE CONTRACTOR MAY USE NO. 4 BARS SPACED AT 2'-0" C-C IN BOTH THE LONGITUDINAL AND TRANSVERSE DIRECTIONS FOR TOP REINFORCEMENT AS AN ALTERNATIVE TO THE WELDED WIRE FABRIC.

② THE CONTRACTOR MAY OMIT TIE BARS BETWEEN REINFORCED SLABS WHERE SLAB REINFORCEMENT BARS EXTEND ACROSS THE CENTERLINE OR REFERENCE LINE.

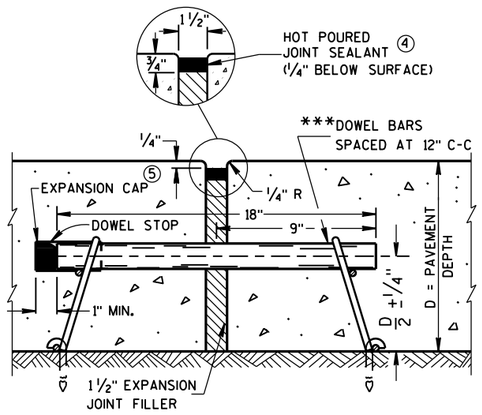
③ DO NOT CONSTRUCT AN EXPANSION JOINT OR INSTALL DOWEL BARS WHEN ABUTTING AN HMA PAVEMENT.

④ USE A JOINT SEALANT MEETING THE REQUIREMENTS OF ASTM D6690.

⑤ PLACE EXPANSION CAP ON THE END OF THE DOWEL THAT IS NOT TACK WELDED TO THE BASKET. DO NOT FORCE DOWEL BAR PAST THE DOWEL STOP.



SECTION B-B
BEND DETAIL
BOTTOM REINFORCEMENT

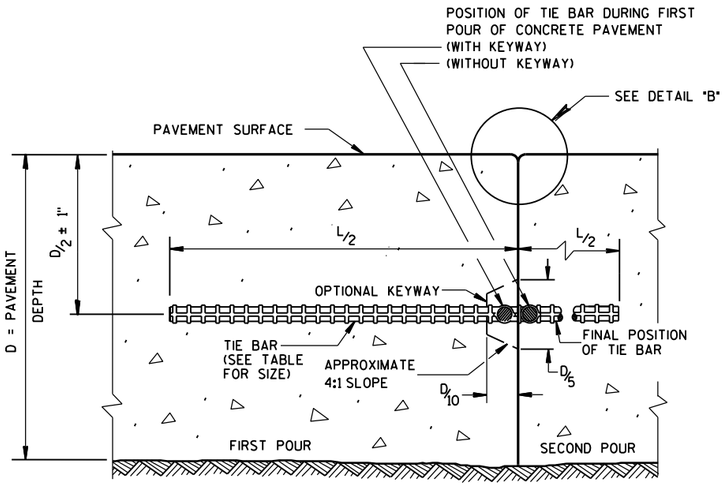


EXPANSION JOINT DETAIL

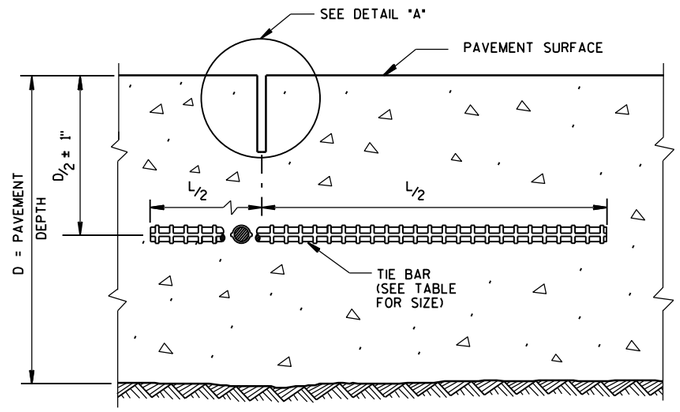
CONCRETE PAVEMENT APPROACH SLAB

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
June, 2015
DATE
/S/ Peter Kemp, P.E.
PAVEMENT SUPER
FHWA



CONSTRUCTION JOINT



SAWED JOINT

GENERAL NOTES

DO NOT SEAL OR FILL LONGITUDINAL JOINTS.

CREATE A LONGITUDINAL JOINT FOR PAVEMENT WIDTHS GREATER THAN 15 FEET.

CORRELATE LONGITUDINAL JOINTS WITH LANE LINES WHEN POSSIBLE.

(1) ANCHOR TIE BARS INTO DRILLED HOLES WITH AN EPOXY.

(2) PAVEMENT THAT WAS IN PLACE PRIOR TO THE CONTRACT.

PLAN VIEW

SECTION A-A

LONGITUDINAL CONSTRUCTION JOINT TIE BARS ANCHORED INTO EXISTING PAVEMENT

DETAIL "A"

DETAIL "B"

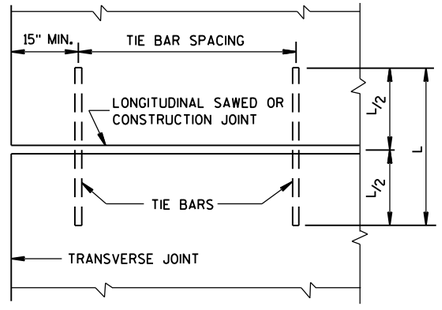
DETAIL "C"

TIE BAR TABLE

PAVEMENT DEPTH (D)	TIE BAR SIZE	TIE BAR LENGTH (L)	MAX. TIE BAR SPACING
< 10 1/2"	NO. 4	30"	36"
≥ 10 1/2"	NO. 5	36"	36"
	NO. 4 *	30"	24"**

* SUBSTITUTE BENT BARS AT LONGITUDINAL JOINTS WHEN EQUIPMENT LIMITATIONS DURING CONSTRUCTION WARRANT (e.g. AUXILIARY LANES OR TURN LANES)

** CONFORM TO 15" MINUMUM SPACING FROM TRANSVERSE JOINTS; SPACING BETWEEN TIE BARS WILL BE 30" AT TRANSVERSE JOINTS.



PLAN VIEW
SHOWING LOCATION OF TIE BARS

CONCRETE PAVEMENT LONGITUDINAL JOINTS AND TIES

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
June, 2015 — DATE
/S/ Peter Kemp, P.E. — PAVEMENT SUPER
FHWA

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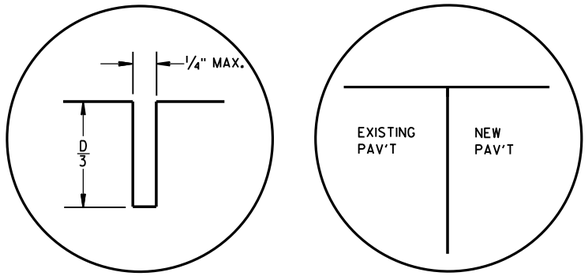
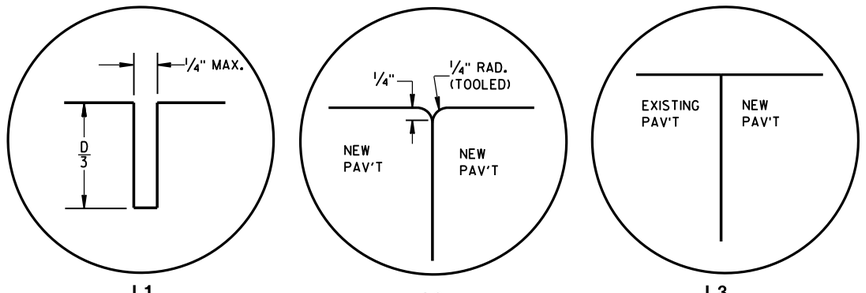
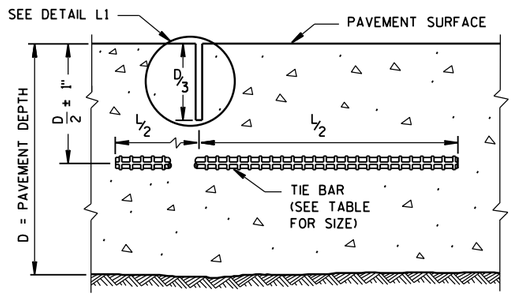
S.D.D. 13 C 1-18



TRANSVERSE JOINTS

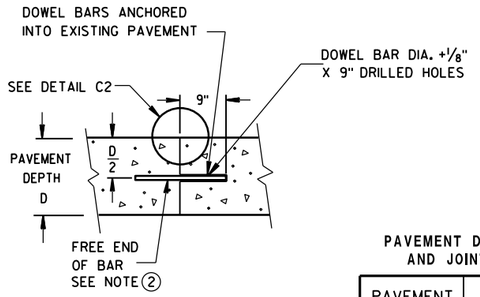


LONGITUDINAL JOINTS



SECTION C-C

SAWED JOINT



SECTION D-D

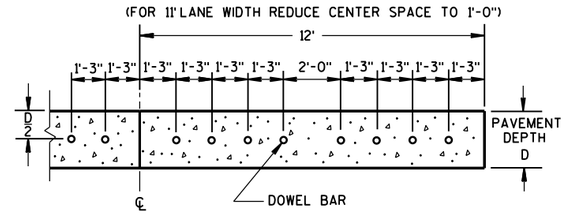
GENERAL NOTES

ANCHOR TIE BARS AND DOWEL BARS INTO DRILLED HOLES WITH AN EPOXY.

PROVIDE A MINIMUM DISTANCE OF 15 INCHES FROM AN EXISTING TRANSVERSE JOINT OR THE EDGE OF REPLACEMENT TO THE CENTER OF THE TIE BAR NEAREST THAT JOINT OR EDGE.

(1) INSTALL DOWEL BARS PARALLEL TO THE PAVEMENT CENTERLINE AND PAVEMENT SURFACE.

(2) APPLY A THIN UNIFORM COATING OF SURFACE TREATMENT TO THE FREE END OF DOWEL BARS TO PREVENT BONDING.



SECTION E-E

SPACING OF DOWEL BARS ANCHORED INTO EXISTING PAVEMENT

PAVEMENT DEPTH, DOWEL BAR SIZE AND JOINT SPACING TABLE

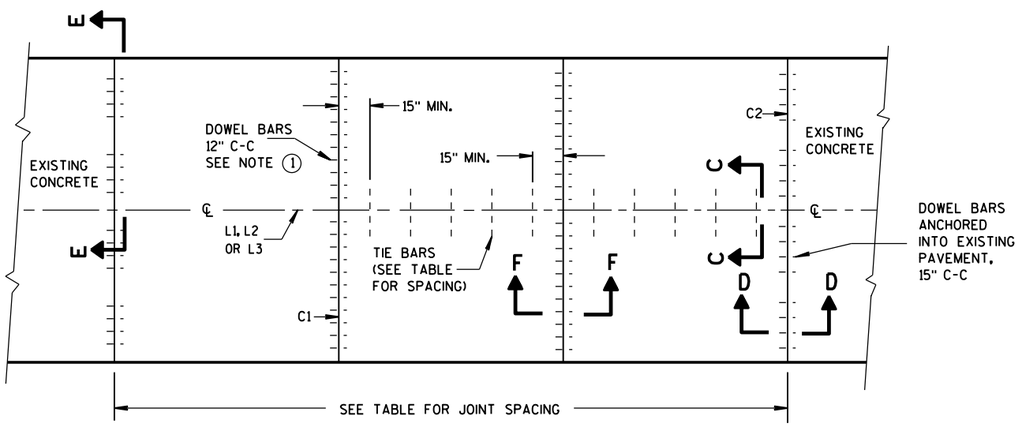
PAVEMENT DEPTH (D)	DOWEL BAR DIAMETER	CONTRACTION JOINT SPACING
5½", 6, 6 ½"	NONE	12'
7, 7 ½"	1"	14'
8, 8 ½"	1 ¼"	15'
9, 9 ½"	1 ¼"	15'
10" & ABOVE	1 ½"	15'

TIE BAR TABLE

PAVEMENT DEPTH (D)	TIE BAR SIZE	TIE BAR LENGTH (L)	MAX. TIE BAR SPACING
< 10 ½"	NO. 4	30"	36"
≥ 10 ½"	NO. 5	36"	36"
	NO. 4 *	30"	24" **

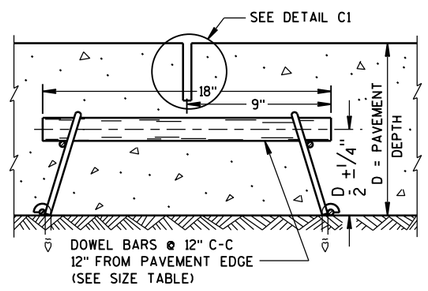
* SUBSTITUTE BENT BARS AT LONGITUDINAL JOINTS WHEN EQUIPMENT LIMITATIONS DURING CONSTRUCTION WARRANT (e.g. AUXILIARY LANES OR TURN LANES)

** CONFORM TO 15" MINUMUM SPACING FROM TRANSVERSE JOINTS; SPACING BETWEEN TIE BARS WILL BE 30" AT TRANSVERSE JOINTS.



PLAN VIEW

CONCRETE BASE CONTRACTION JOINT LOCATIONS



SECTION F-F

CONTRACTION JOINT

CONCRETE BASE

STATE OF WISCONSIN
DEPARTMENT OF TRANSPO

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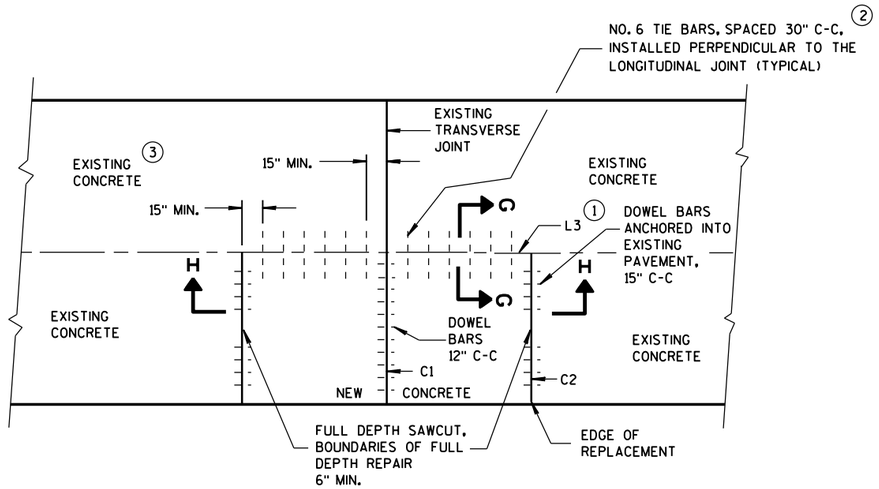
S.D.D. 13 C 15-6a

GENERAL NOTES

(1) USE AN ENGINEER-APPROVED BOND BREAKER (E.G. RELEASE AGENT, CURING COMPOUND) AT THE LONGITUDINAL JOINT IN LIEU OF TIE BARS FOR SINGLE LANE CONCRETE BASE REPAIRS UP TO 15 FEET IN LENGTH.

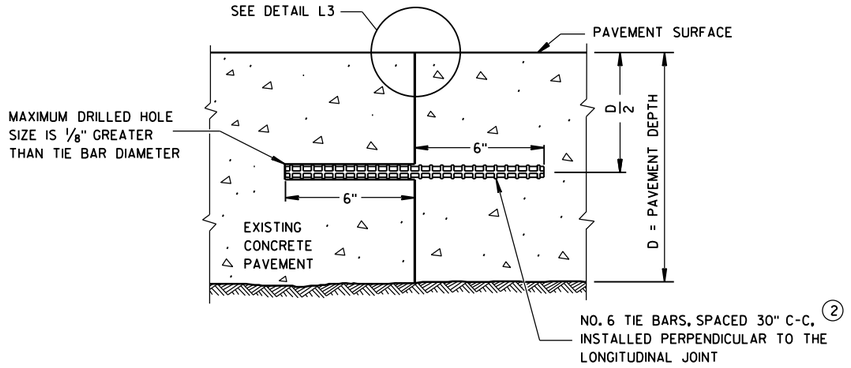
(2) ANCHOR TIE BARS INTO DRILLED HOLES WITH AN EPOXY.

(3) PAVEMENT THAT WAS IN PLACE PRIOR TO THE CONTRACT.



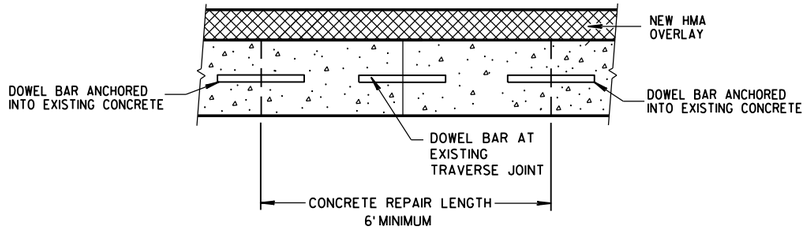
PLAN VIEW

SINGLE LANE CONCRETE BASE REPAIR



SECTION G-G

TIE BARS ANCHORED INTO EXISTING PAVEMENT



SECTION H-H

CONCRETE BASE

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
June, 2015 — DATE
/S/ Peter Kemp, P.E. — PAVEMENT SUPEI
FHWA

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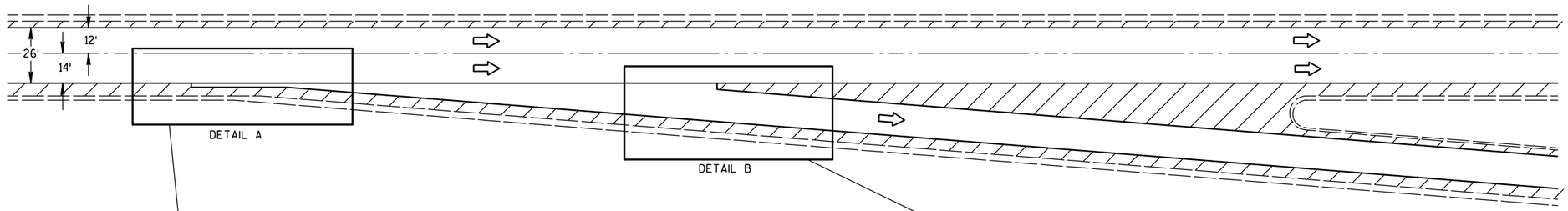
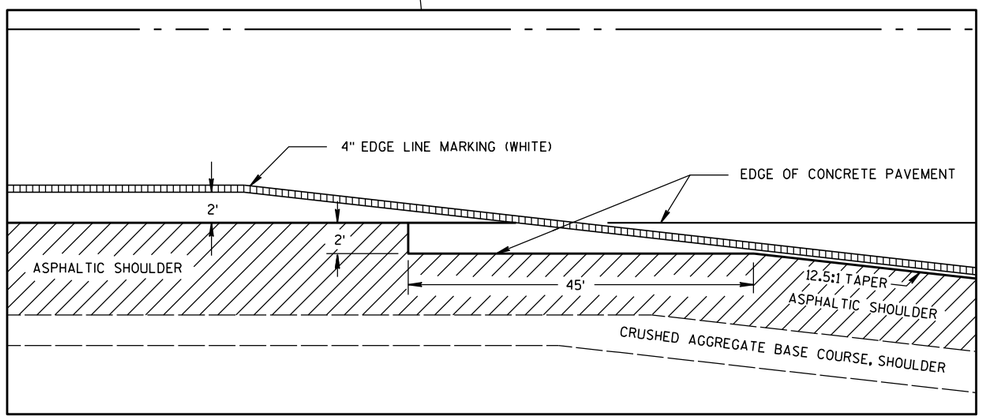
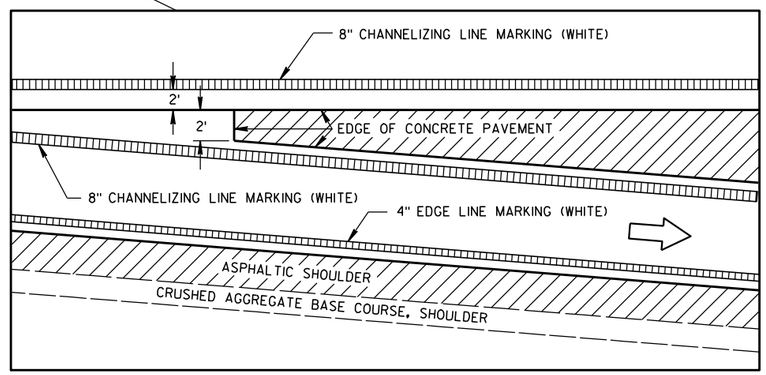
S.D.D. 13 C 15-6b



EXIT RAMP DETAIL



DETAIL A



DETAIL B

CONCRETE JOINT PAVING DETAILS

GENERAL NOTES

PAVEMENT MARKING DETAILS AND SPECIFICATIONS ARE PROVIDED ELSEWHERE IN THE CONTRACT.

SEE SDD 13 A 4-4c OR SDD 13 A 5-1b FOR RAMP AND GORE RUMBLE STRIP LOCATION.

CONCRETE JOINT DETAIL FOR EXIT RAMP TERMINI

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

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S.D.D. 13 C 17-1a

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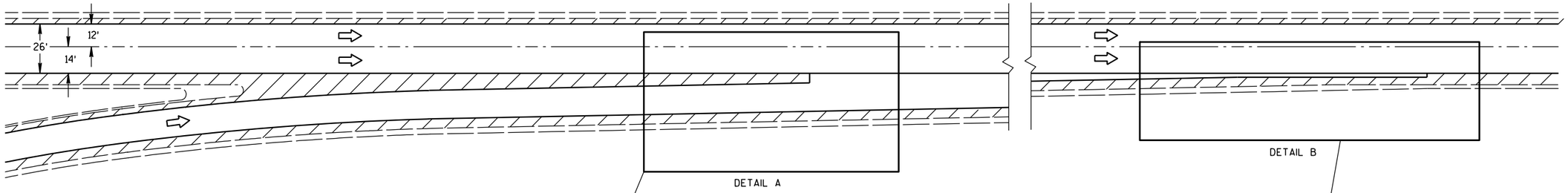
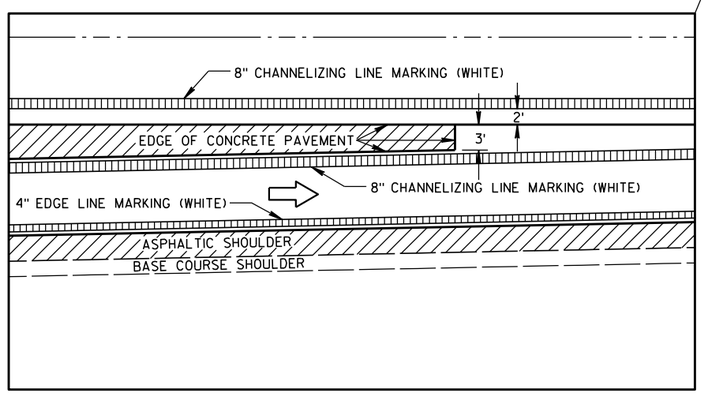
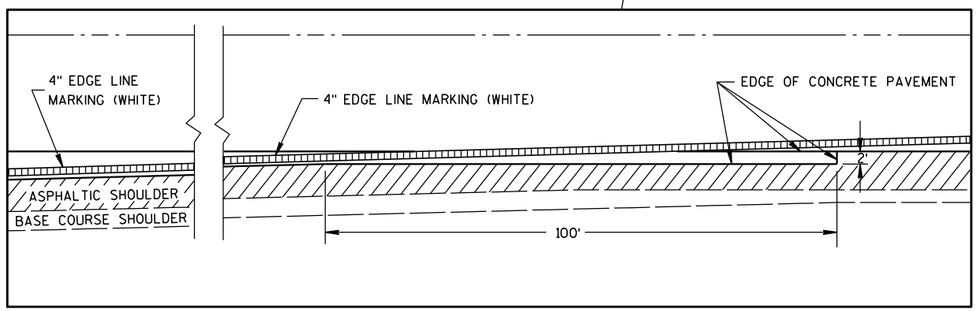
S.D.D. 13 C 17-1a



ENTRANCE RAMP DETAIL



DETAIL A



DETAIL B

CONCRETE JOINT PAVING DETAILS

GENERAL NOTES

PAVEMENT MARKING DETAILS AND SPECIFICATIONS ARE PROVIDED ELSEWHERE IN THE CONTRACT.

SEE SDD 13 A 4-4c OR SDD 13 A 5-1b FOR RAMP AND GORE RUMBLE STRIP LOCATION.

CONCRETE JOINT DETAIL FOR ENTRANCE RAMP TERMINI

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED

5/27/98
DATE

/S/ Rory L. Rhinesmith
CHIEF ROADWAY DEVELOPMENT ENGINEER

FHWA

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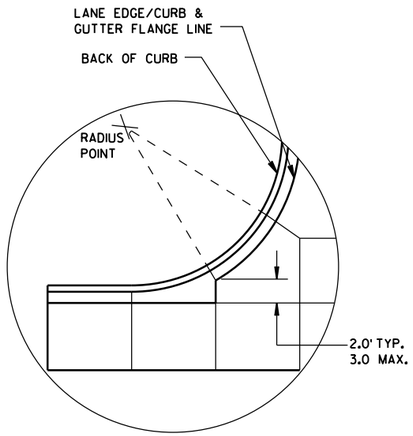
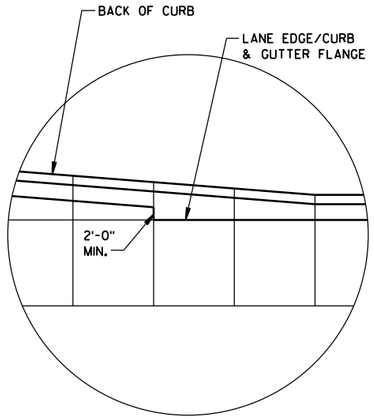
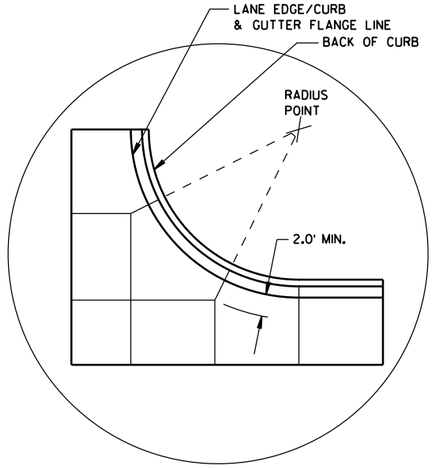
S.D.D. 13 C 17-1b



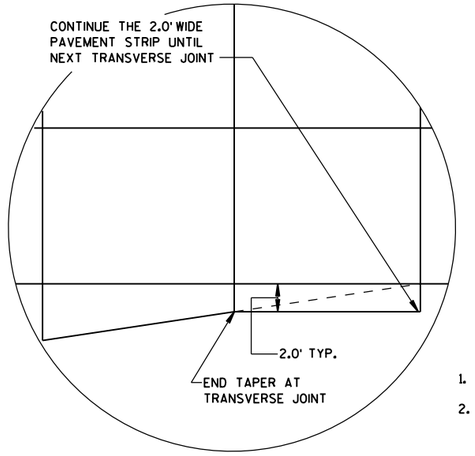
DETAIL "A"



DETAIL "B"



DETAIL "C"



DETAIL "D"

GENERAL NOTES

THE PRIMARY ROADWAY CONTROLS THE TRANSVERSE JOINT PATTERN.

ALIGN NEW JOINTS WITH EXISTING JOINTS OR CRACKS.

CONSTRUCT TRANSVERSE JOINTS PERPENDICULAR TO THE ROADWAY.

ADJUST TRANSVERSE JOINTS TO ALIGN WITH UTILITY FIXTURES (E.G. MANHOLES AND INLETS) IN THE PAVEMENT STRUCTURE WHEN POSSIBLE. WATER VALVES DO NOT REQUIRE JOINT ADJUSTMENT.

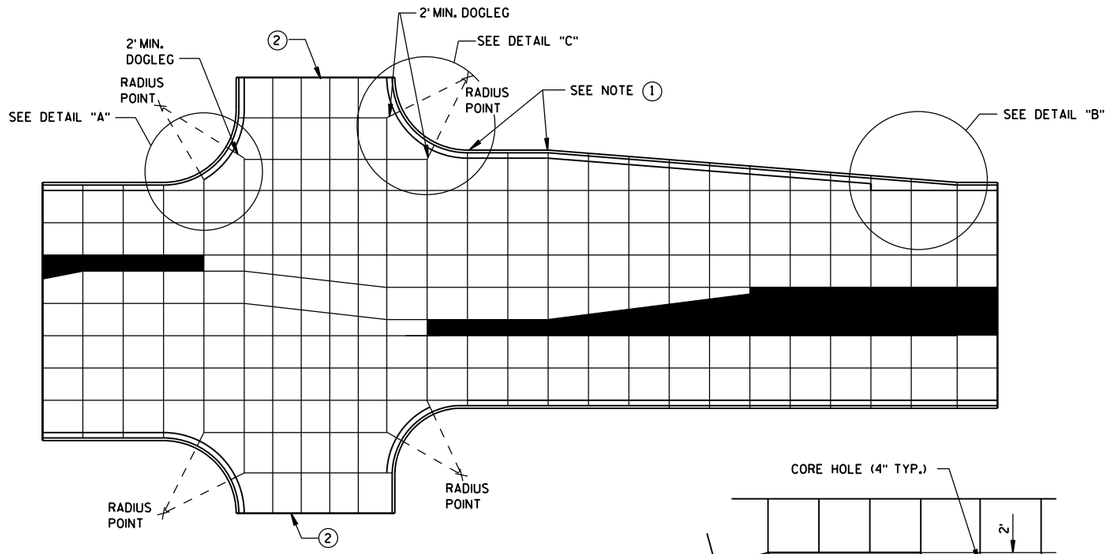
AVOID SLABS LESS THAN 2 FEET WIDE OR GREATER THAN 15 FEET WIDE.

SEE TABLE FOR TRANSVERSE JOINT SPACING. JOINT SPACING SPECIFIED IS MAXIMUM AND ACTUAL SPACING CAN BE ADJUSTED TO ACCOMMODATE INTERSECTIONS.

AVOID ANGLES LESS THAN 60° BY DOGLEGGING JOINTS THROUGH CURVE RADIUS POINTS. USE 90° ANGLES WHEN POSSIBLE.

CORRELATE LONGITUDINAL JOINTS WITH LANE LINES WHEN POSSIBLE.

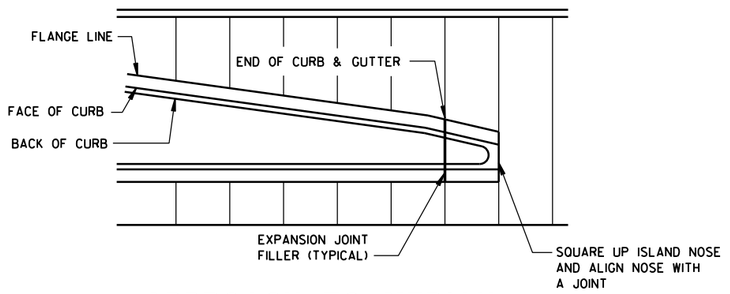
1. PROVIDE TRANSVERSE JOINTS AT ALL PAVEMENT WIDTH CHANGES.
2. CONSTRUCT DOWELED EXPANSION JOINT ON THE SIDE ROAD OF AN INTERSECTION IF THE SIDE ROAD IS CONCRETE PAVEMENT AND GREATER THAN 300 FEET IN LENGTH. ALIGN EXPANSION JOINT WITH EDGE OF RADIUS.
3. THE ENGINEER MAY APPROVE SLIGHT VARIATIONS FROM THESE JOINTING DETAILS.



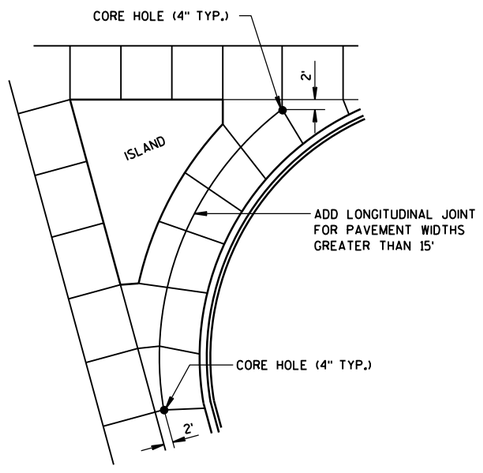
STANDARD INTERSECTION

PAVEMENT DEPTH AND JOINT SPACING TABLE

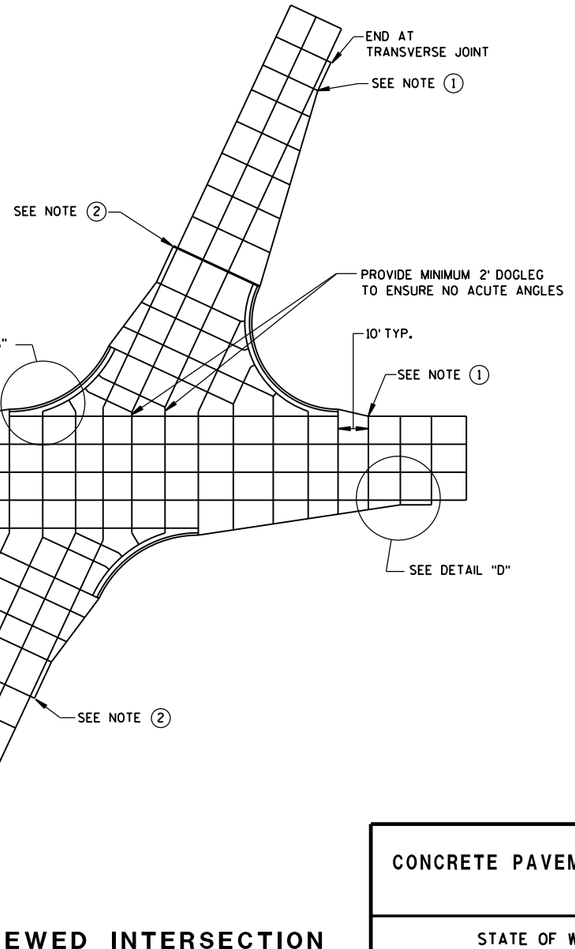
PAVEMENT DEPTH (D)	CONTRACTION JOINT SPACING
6", 6½"	12'
7", 7½"	14'
8" & ABOVE	15'



APPROACH TO MEDIAN



LARGE RIGHT TURN



SKEWED INTERSECTION

CONCRETE PAVEMENT JOINTING

STATE OF WISCONSIN
DEPARTMENT OF TRANSPOR 355

6

S.D.D. 13 C 18-4a

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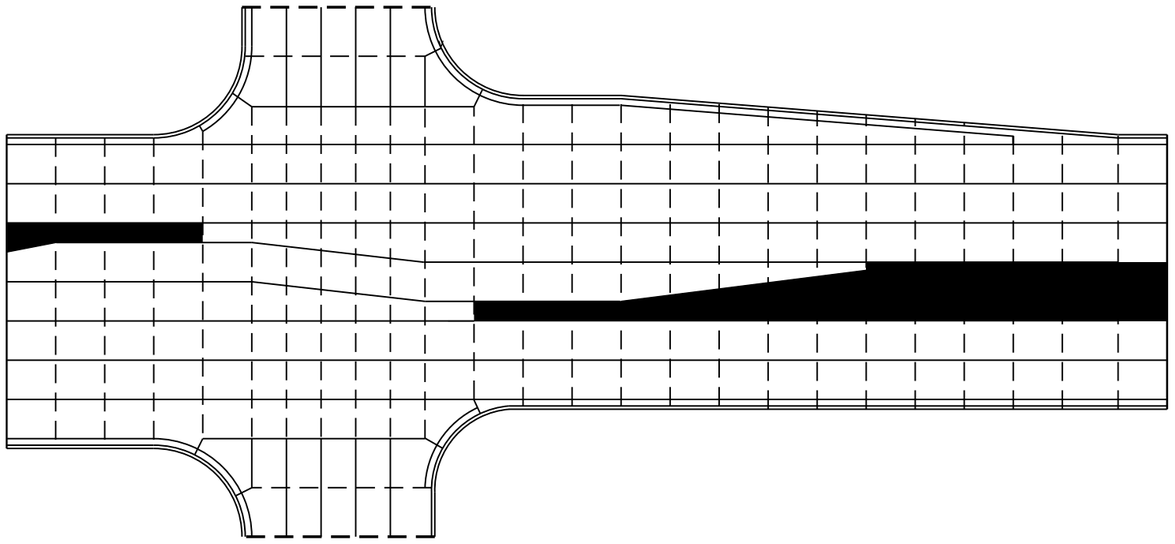
S.D.D. 13 C 18-4a

LEGEND

POTENTIAL DOWELED EXPANSION JOINT

DOWELED JOINT

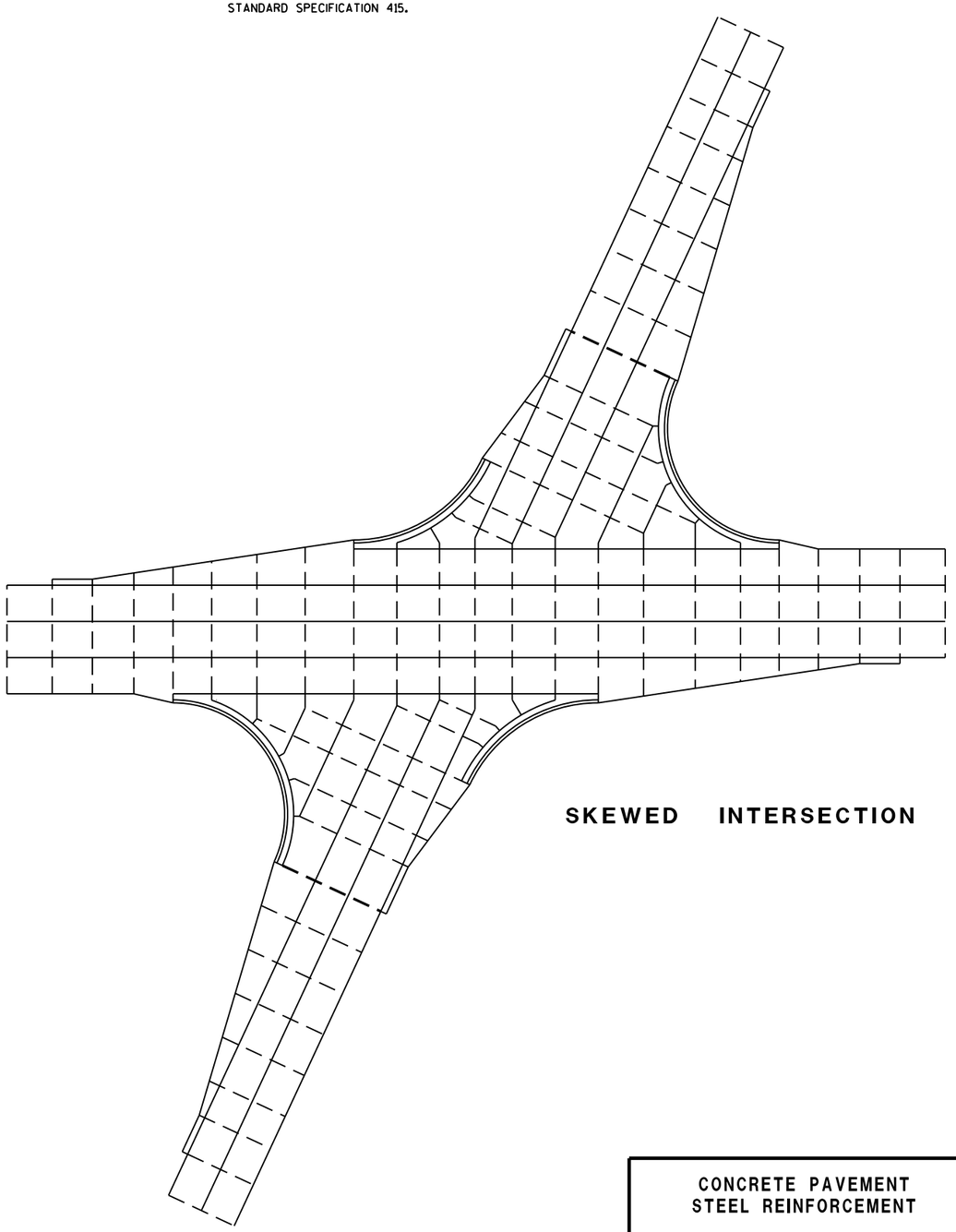
TIED JOINT



STANDARD INTERSECTION

GENERAL NOTES

USE AN EXPANSION JOINT FILLER MEETING THE REQUIREMENTS OF STANDARD SPECIFICATION 415.



SKEWED INTERSECTION

CONCRETE PAVEMENT
STEEL REINFORCEMENT

STATE OF WISCONSIN
DEPARTMENT OF TRANSPOI

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S.D.D. 13 C 18-4b

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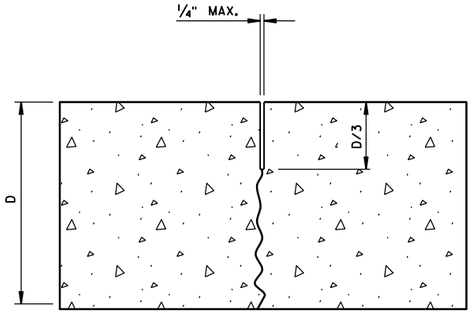
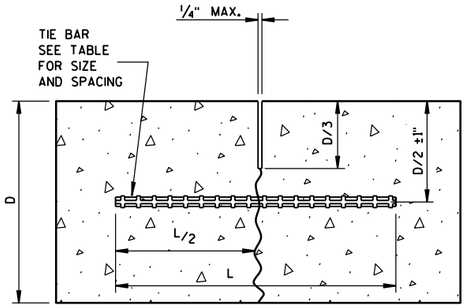
S.D.D. 13 C 18-4b



UNDOWELED-TRANSVERSE



TIED LONGITUDINAL

TIE BAR TABLE

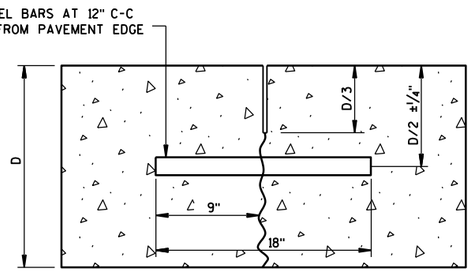
PAVEMENT DEPTH (D)	TIE BAR SIZE	TIE BAR LENGTH (L)	MAX. TIE BAR SPACING
< 10 1/2"	NO. 4	30"	36"
≥ 10 1/2"	NO. 5	36"	36"
	NO. 4*	30"	24"**

* SUBSTITUTE BENT BARS AT LONGITUDINAL JOINTS WHEN EQUIPMENT LIMITATIONS DURING CONSTRUCTION WARRANT (e.g. AUXILIARY LANES OR TURN LANES)

** CONFORM TO 15" MINUMUM SPACING FROM TRANSVERSE JOINTS; SPACING BETWEEN TIE BARS WILL BE 30" AT TRANSVERSE JOINTS.

GENERAL NOTES

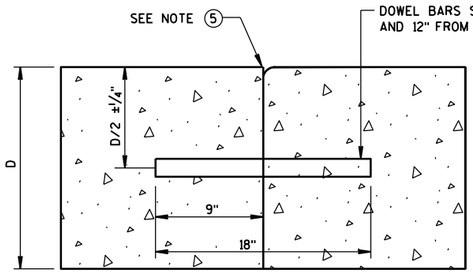
1. USE DOWELED EXPANSION JOINTS ON SIDE ROADS AT INTERSECTIONS (TO ISOLATE THE SIDE ROAD FROM THE THROUGH STREET) IF THE SIDE ROAD IS CONCRETE PAVEMENT AND GREATER THAN 300 FEET IN LENGTH.
2. SPACE CONTRACTION JOINTS IN ACCORDANCE WITH 13C4, 13C11 OR 13C13.
3. LOCATE CONSTRUCTION JOINTS A MINIMUM OF 6 FEET FROM THE NEAREST CONTRACTION JOINT AND ALIGN PARALLEL TO CONTRACTION JOINTS.
4. CONSTRUCTION JOINTS CAN BE FORMED OR SAWED.
5. IF JOINT IS FORMED, PROVIDE A 1/4-INCH RADIUS.
6. ANCHOR TIE BARS INTO DRILLED HOLES WITH AN EPOXY.



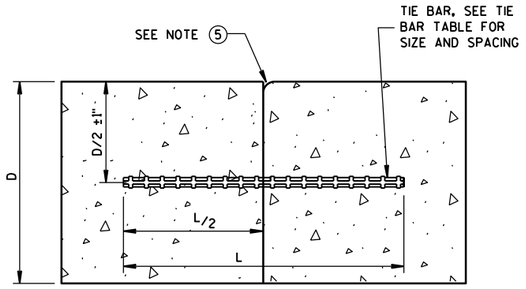
DOWELED-TRANSVERSE

CONTRACTION JOINTS

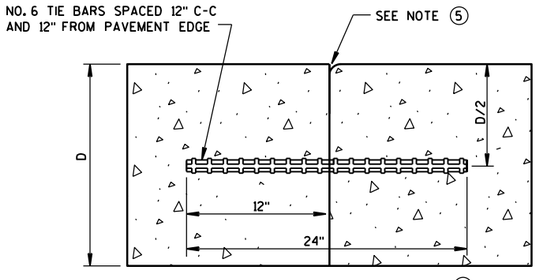
SEE NOTE (2)



DOWELED TRANSVERSE (3)

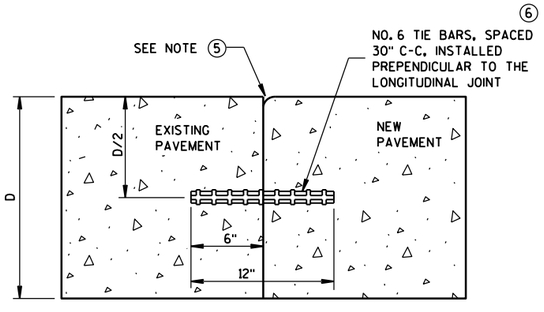


TIED LONGITUDINAL



TIED TRANSVERSE (3)

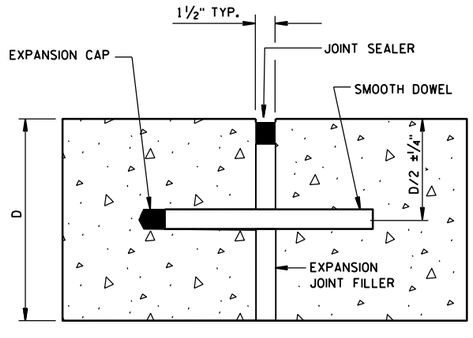
(FOR USE ON NON-DOWELED PAVEMENTS ONLY)



TIED LONGITUDINAL TO EXISTING

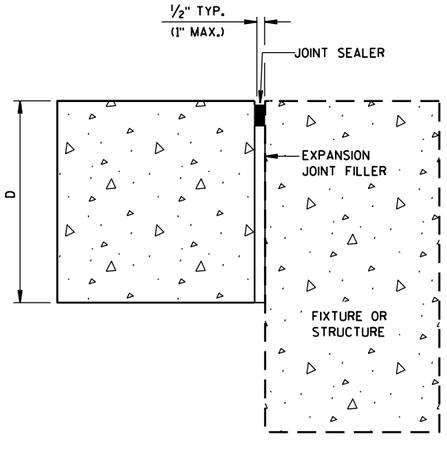
CONSTRUCTION JOINTS

SEE NOTE (4)



DOWELED-TRANSVERSE

SEE NOTE (1)



UNTIED-LONGITUDINAL

EXPANSION JOINTS

CONCRETE PAVEMENT
JOINT TYPES

STATE OF WISCONSIN
DEPARTMENT OF TRANSPOI

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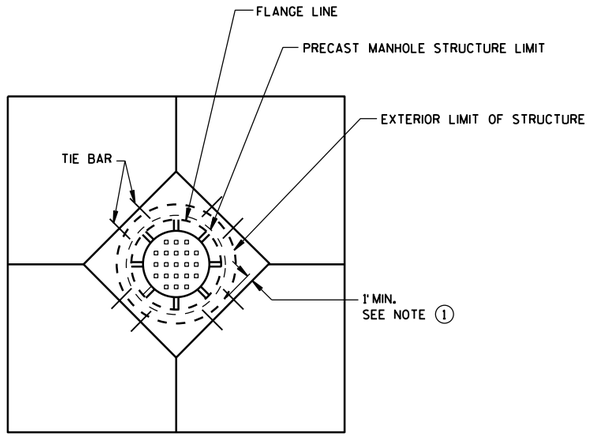
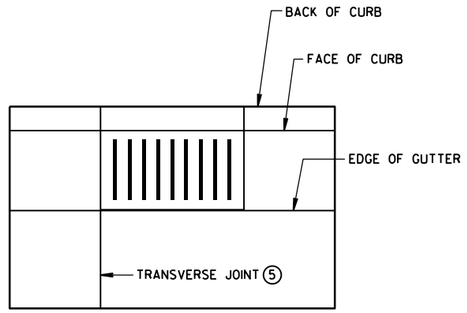
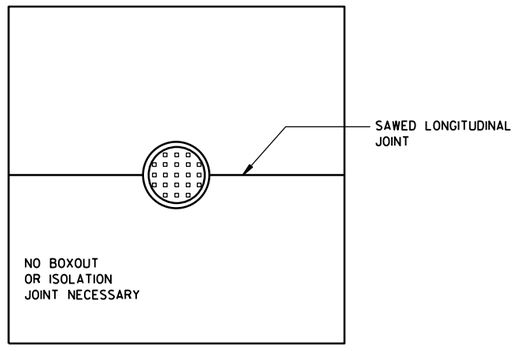


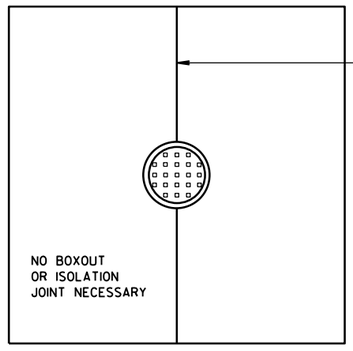
DIAGONAL MANHOLE BOXOUT FOR CONSTRUCTION JOINTS



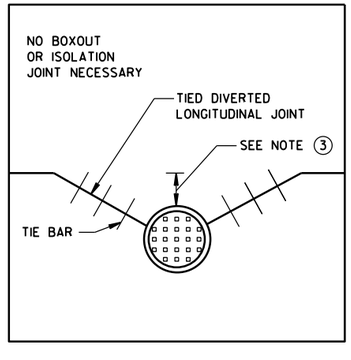
INLET WITH TRANSVERSE JOINT



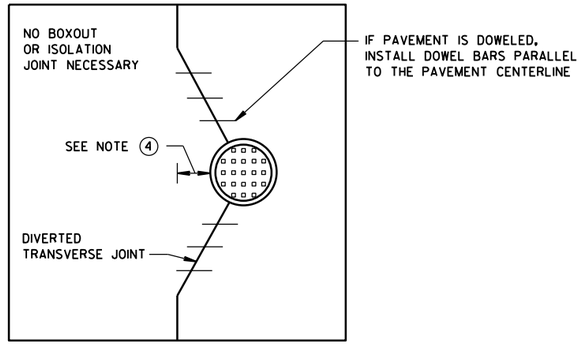
MANHOLE WITH LONGITUDINAL JOINT



MANHOLE WITH TRANSVERSE JOINT



MANHOLE WITH DIVERTED LONGITUDINAL CONTRACTION JOINT



MANHOLE WITH DIVERTED TRANSVERSE CONTRACTION JOINT

GENERAL NOTES

(1) USE BOXOUTS WHEN UTILITY STRUCTURE IS IN THE PATH OF CONSTRUCTION JOINTS. PROVIDE A 1-FOOT MINIMUM CLEARANCE BETWEEN THE EXTERIOR LIMIT OF THE STRUCTURE TO THE DIAMOND BOXOUT.

(2) ADJUST TRANSVERSE JOINT TO INTERSECT MANHOLE IF POSSIBLE.

(3) IF DISTANCE BETWEEN THE LONGITUDINAL JOINT AND THE EDGE OF MANHOLE IS 2 FEET OR LESS, DIVERT THE LONGITUDIAL JOINT AT A 2:1 TAPER RATE TO THE CENTER OF THE MANHOLE. IF THE DISTANCE IS GREATER THAN 2 FEET, DO NOT DIVERT THE JOINT AND SAW AS NORMAL. PLACE REBAR REINFORCEMENT AROUND THE MANHOLE.

(4) IF DISTANCE FROM THE EDGE OF THE MANHOLE TO THE NEAREST TRANSVERSE JOINT IS 4 FEET OR LESS, REDIRECT JOINT TO INTERSECT THE CENTER OF THE MANHOLE. IF DISTANCE IS GREATER THAN 4 FEET, DO NOT DIVERT THE JOINT AND SAW AS NORMAL. PLACE REBAR REINFORCEMENT AROUND THE MANHOLE.

(5) ALIGN TRANSVERSE JOINT WITH ONE EDGE OF INLET WHEN PRACTICAL.

CONCRETE PAVEMENT JOINTING AT UTILITY FIXTURES

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
Sept., 2016 — DATE
/S/ Peter Kemp, P.E. — PAVEMENT SUPER
FHWA

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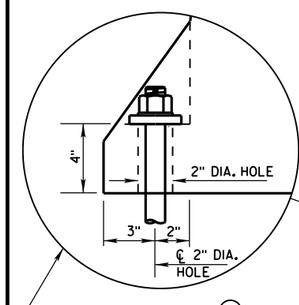
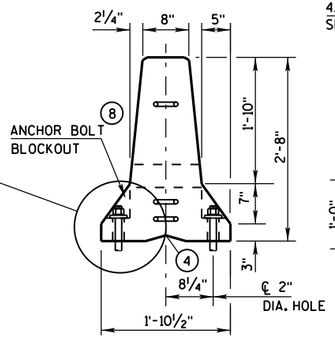
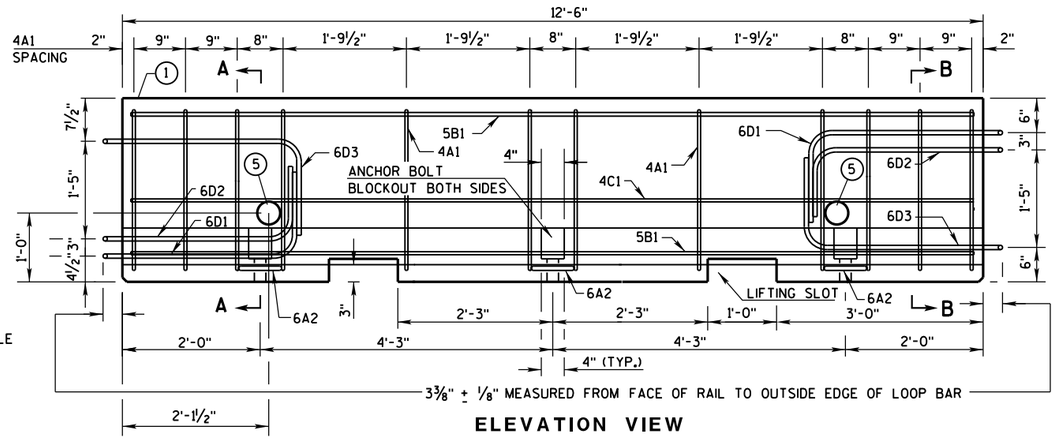
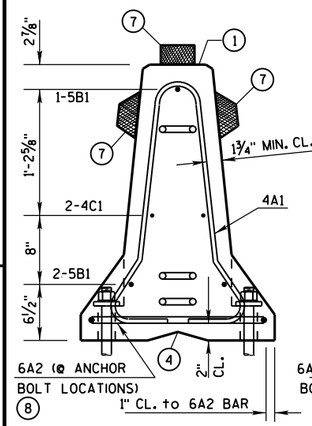




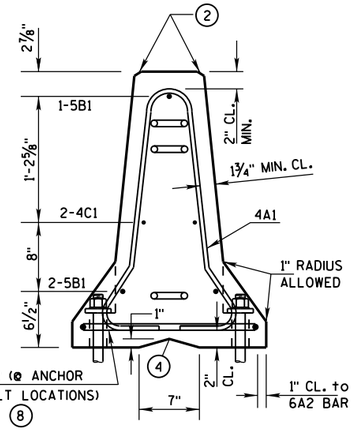
END VIEW



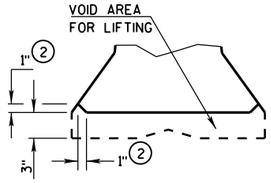
ELEVATION VIEW



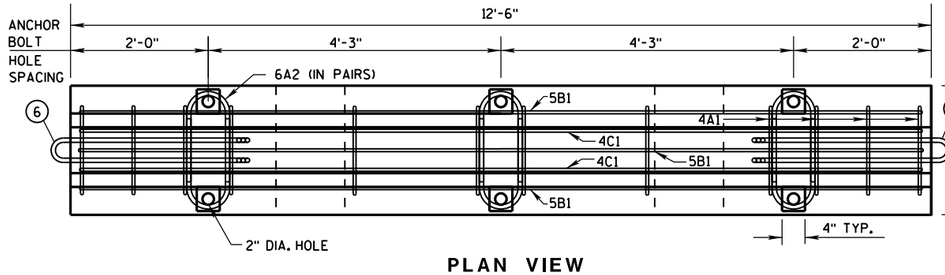
SECTION A-A
(STIRRUP PLACEMENT)



SECTION B-B
(STIRRUP PLACEMENT)

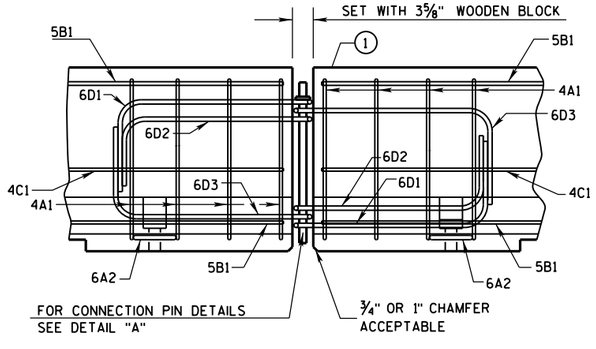


DETAIL "B"
LIFTING SLOT DETAIL

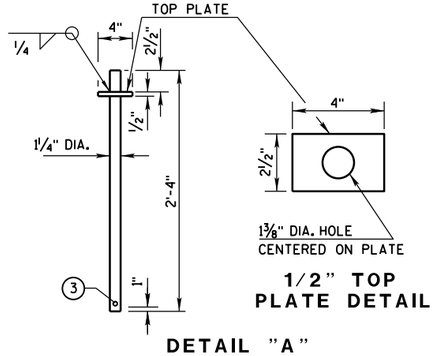


PLAN VIEW

DETAILS OF BARRIER SECTION

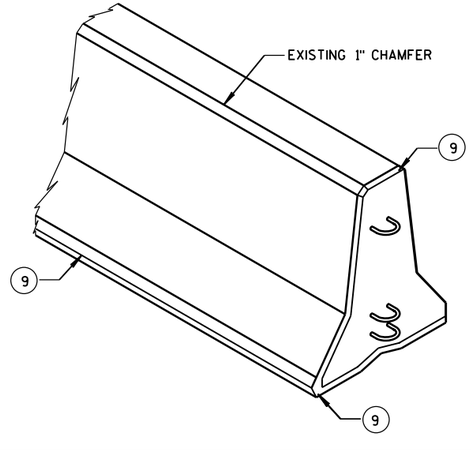


DETAILS OF BARRIER CONNECTION



1/2" TOP
PLATE DETAIL

DETAIL "A"
CONNECTION PIN
(A36 STEEL (10.9 LB EACH))



GENERAL NOTES

THESE GENERAL NOTES APPLY TO SHEETS 14B7-14(a) THRU 14B7-14(h).

DO NOT INTERMIX CONCRETE BARRIER TEMPORARY PRCAST, 12'-6" (CBTP12.5) WITH OTHER TEMPORARY CONCRETE BARRIERS.

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.

INSTALL MECHANICAL OR ADHESIVE ANCHORS PER MANUFACTURER'S RECOMMENDATIONS. PROVIDE MANUFACTURER'S INFORMATION TO PROJECT ENGINEER.

(1) MARK ONE END OF EACH BARRIER PERMANENTLY BY FORMING INTO THE BARRIER THE FOLLOWING INFORMATION:
- a. TYPE: WI 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.

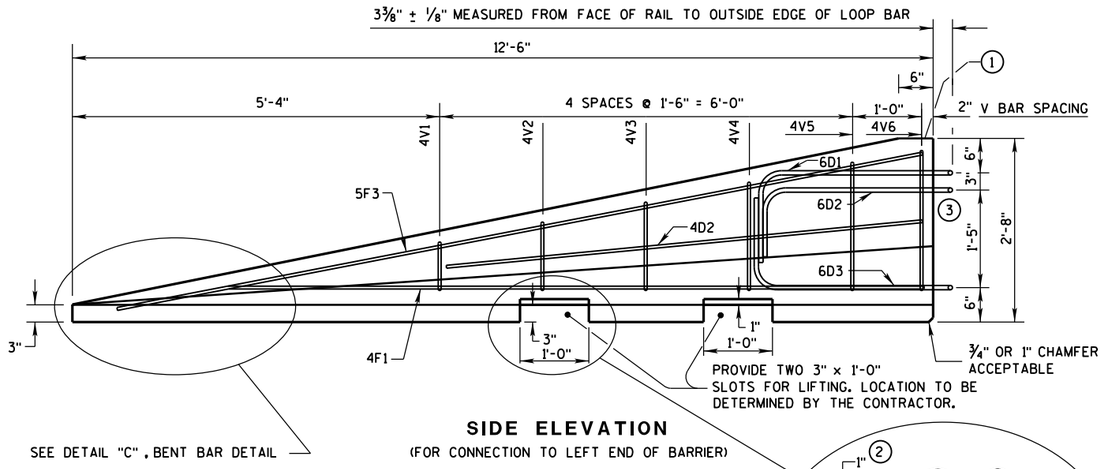
(7) USE DELINEATORS CONFORMING TO SECTION 633 OF THE STANDARD SPECIFICATIONS. CONTRACTOR MAY USE ALTERNATE SHAPES AND HOUSING. INSTALL DELINEATORS ACCORDING TO MANUFACTURES INSTRUCTION. INSTALL YELLOW REFLECTORS WHEN BARRIER IS LOCATED TO THE LEFT OF TRAFFIC AND WHITE REFLECTORS WHEN BARRIER IS LOCATED 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.

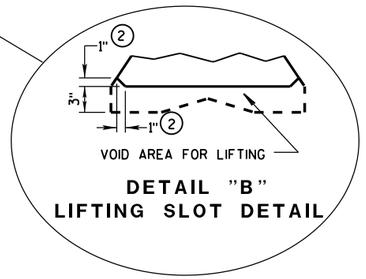
(9) 1" CHAMFER OPTIONAL.

CONCRETE BARRIER TEMPORARY PRECAST, 12'-6"

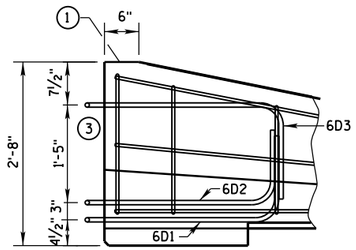
STATE OF WISCONSIN
DEPARTMENT OF TRANSPOR



SIDE ELEVATION
(FOR CONNECTION TO LEFT END OF BARRIER)



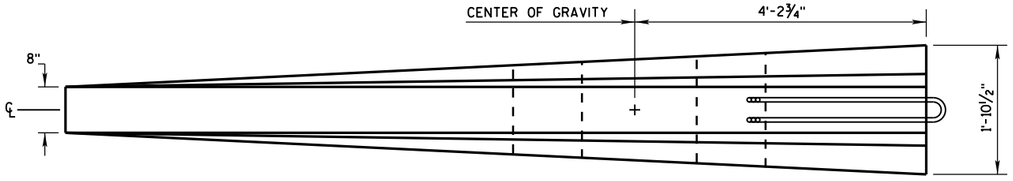
DETAIL "B"
LIFTING SLOT DETAIL



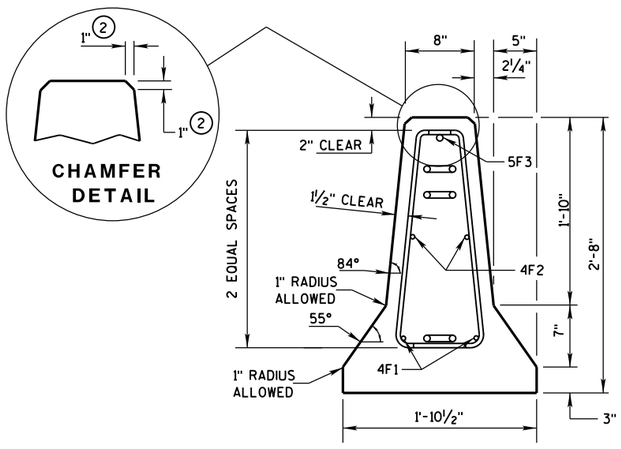
SIDE ELEVATION
LOOP BAR ASSEMBLY INVERTED
FOR OPPOSITE END.
(FOR CONNECTION TO RIGHT END OF BARRIER)

GENERAL NOTES

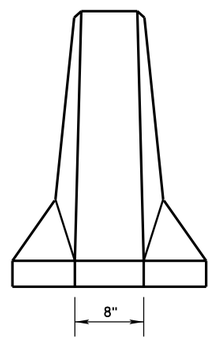
1. MARK ONE END OF EACH BARRIER PERMANENTLY BY FORMING INTO THE BARRIER THE FOLLOWING INFORMATION:
   a. TYPE WICBTP
   b. MANUFACTURER
   c. DATE MANUFACTURED (MONTH AND YEAR)
2. 1" CHAMFER TO PREVENT SPALLING.
3. NEVER USE LOOP BARS (6D1, 6D2 OR 6D3) TO LIFT, MOVE OR REPOSITION THE BARRIER.



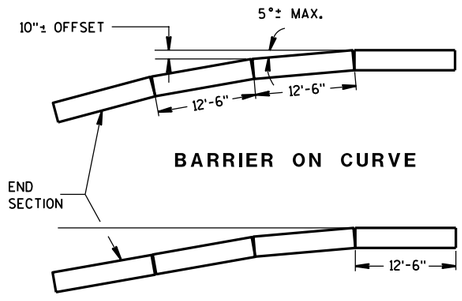
PLAN VIEW



END SECTION



FRONT ELEVATION



BARRIER ON CURVE

FLARE AT BARRIER END

POSTED SPEED, (MPH)	FLARE RATE
40 OR LESS	6:1
45 OR GREATER	8:1

DETAILS OF BARRIER TAPER SECTION

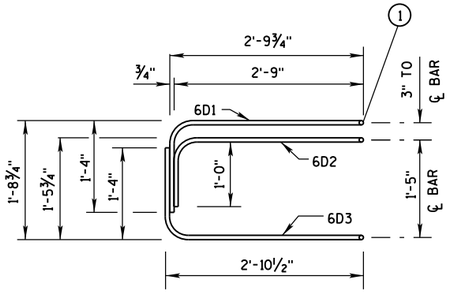
CONCRETE BARRIER
TEMPORARY PRECAST, 12'-6"

STATE OF WISCONSIN
DEPARTMENT OF TRANSPOR 360

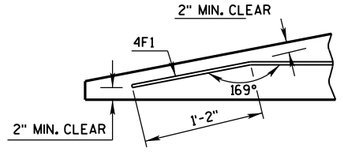
BARRIER TAPER SECTION BILL OF MATERIALS

(PER 12'-6" BARRIER TAPER SECTION)

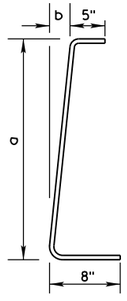
BAR	BAR SIZE	NO. OF BARS	LENGTH FT.
4V1	4	2	1'-11"
4V2	4	2	2'-2"
4V3	4	2	2'-6"
4V4	4	2	2'-9"
4V5	4	2	3'-2"
4V6	4	2	3'-4"
4F1	4	2	12'-0"
4F2	4	2	7'-6"
5F3	5	1	11'-9"
LOOP ASSEMBLY			
6D1	6	1	8'-5"
6D2	6	1	7'-7"
6D3	6	1	8'-6"



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

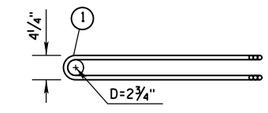
GENERAL NOTES

(1) NEVER USE LOOP BARS (6D1, 6D2 OR 6D3) TO LIFT, MOVE OR REPOSITION THE BARRIER.

BARRIER SECTION BILL OF MATERIALS

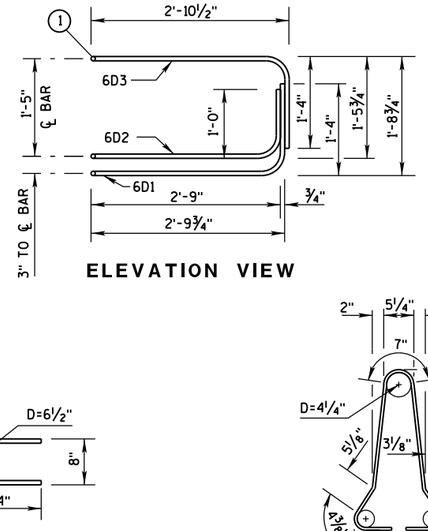
(PER 12'-6" BARRIER SECTION)

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"

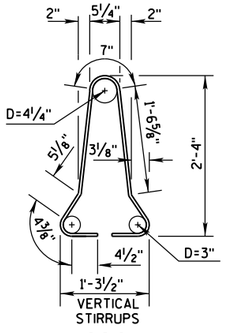


PLAN VIEW
LOOP BAR ASSEMBLY
(MARKED END SHOWN, INVERT FOR OTHER END)

6A2



ELEVATION VIEW



4A1

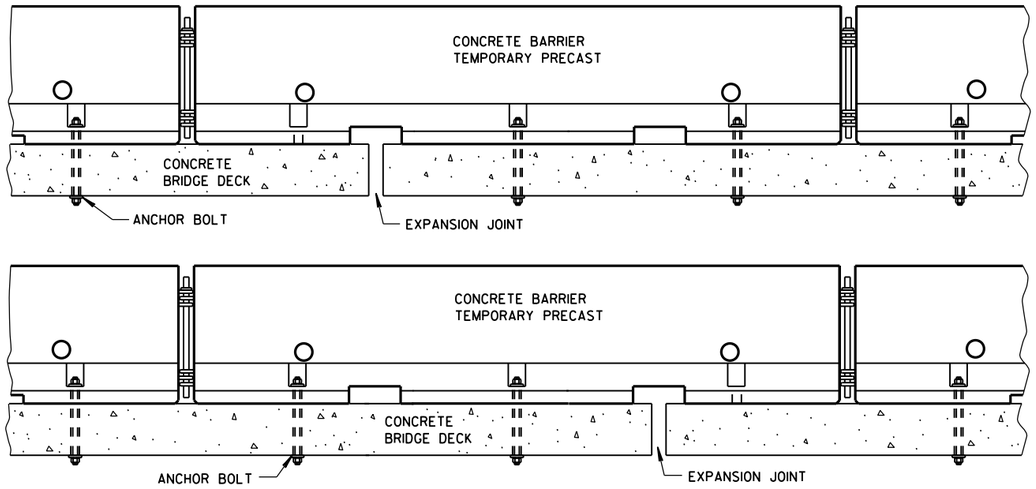
BARRIER SECTION

CONCRETE BARRIER
TEMPORARY PRECAST, 12'-6"

STATE OF WISCONSIN
DEPARTMENT OF TRANSPOR

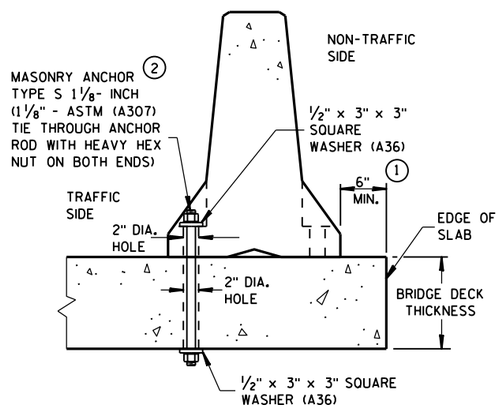
6

S.D.D. 14 B 7-14c



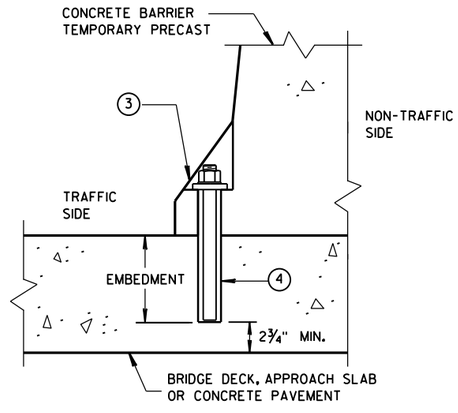
TREATMENT AT BRIDGE DECK EXPANSION JOINTS

(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

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.

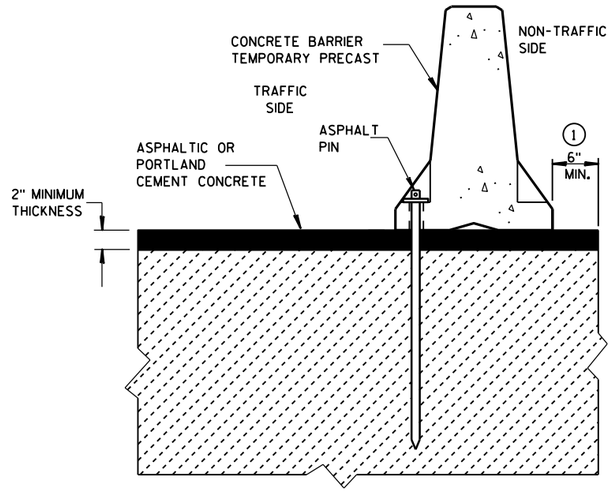
② ANCHORING IS INCIDENTAL TO CONCRETE BARRIER TEMPORARY PRECAST.

WITH THE APPROVAL OF THE ENGINEER, REMOVABLE ADHESIVE BONDED 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 ALL ANCHOR 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 MATERIAL IDENTIFIED ON THE CURRENT WISDOT APPROVED PRODUCTS LIST.

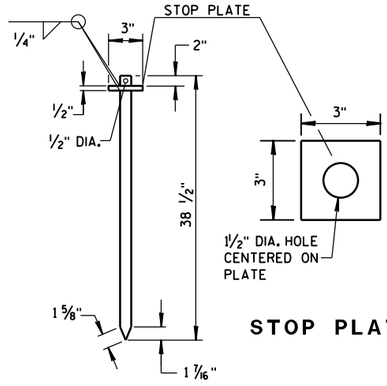
③ 1⅛" DIAMENTER A307 THREADED ROD, ½" X 3" X 3" SQUARE PLATE WASHER WITH ASTM A36 STEEL, ASTM A563A HEAVY HEX NUT.

④ ADHESIVE ANCHORS WITH A MINIMUM BOND STRENGTH OF 1,800 PSI AND 5¼" EMBEDMENT. SEE 603.2 AND 603.3.1.2 OF THE WISCONSIN STANDARD SPECIFICATIONS FOR MORE INFORMATION ON ADHESIVE ANCHORS.



STAKE DOWN INSTALLATION FOR ASPHALTIC OR PORTLAND CEMENT CONCRETE SURFACE

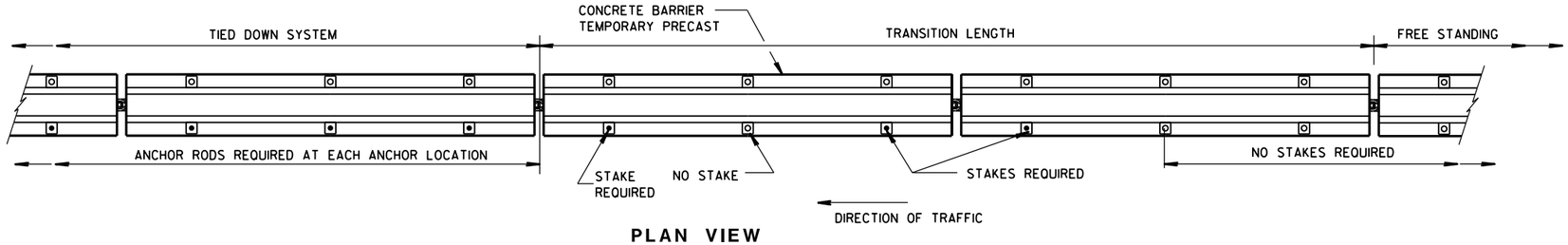
(STAKING IS INCIDENTAL TO CONCRETE BARRIER TEMPORARY PRECAST)



STOP PLATE

ASPHALT PIN

(ASTM 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 TRANSPOI

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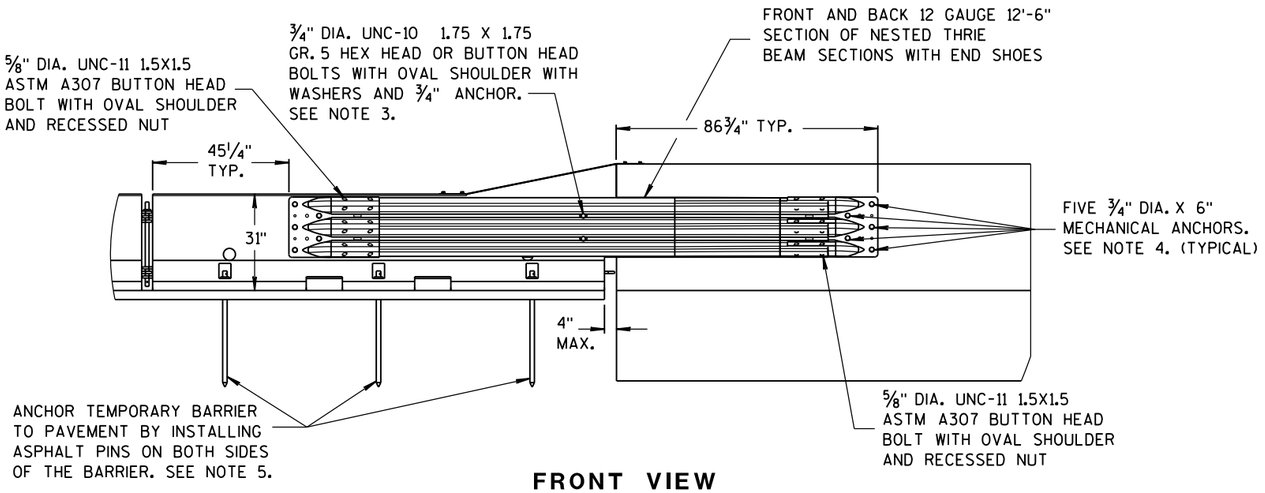
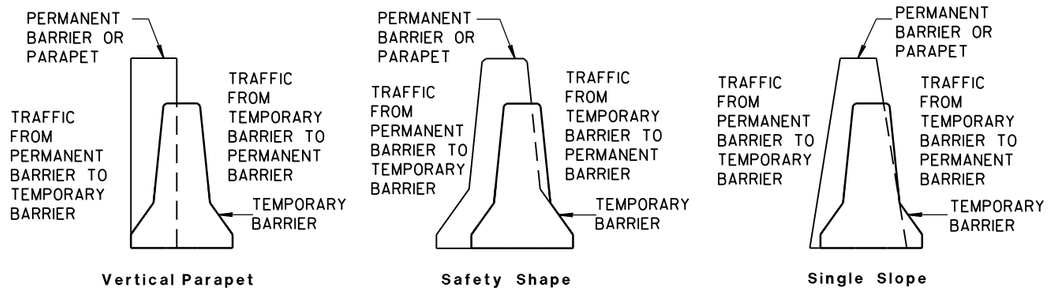
S.D.D. 14 B 7-14d



FRONT VIEW

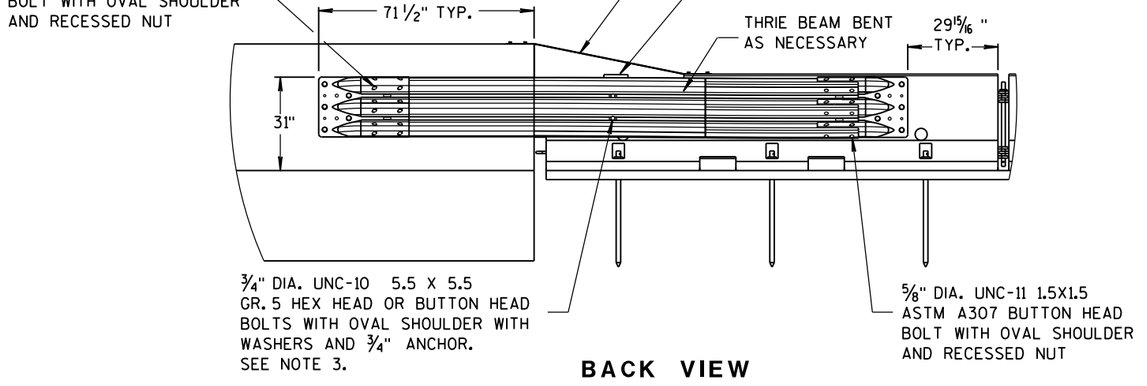


TEMPORARY BARRIER PLACEMENT FOR BI-DIRECTIONAL TRANSITION TO TIED-DOWN SYSTEM

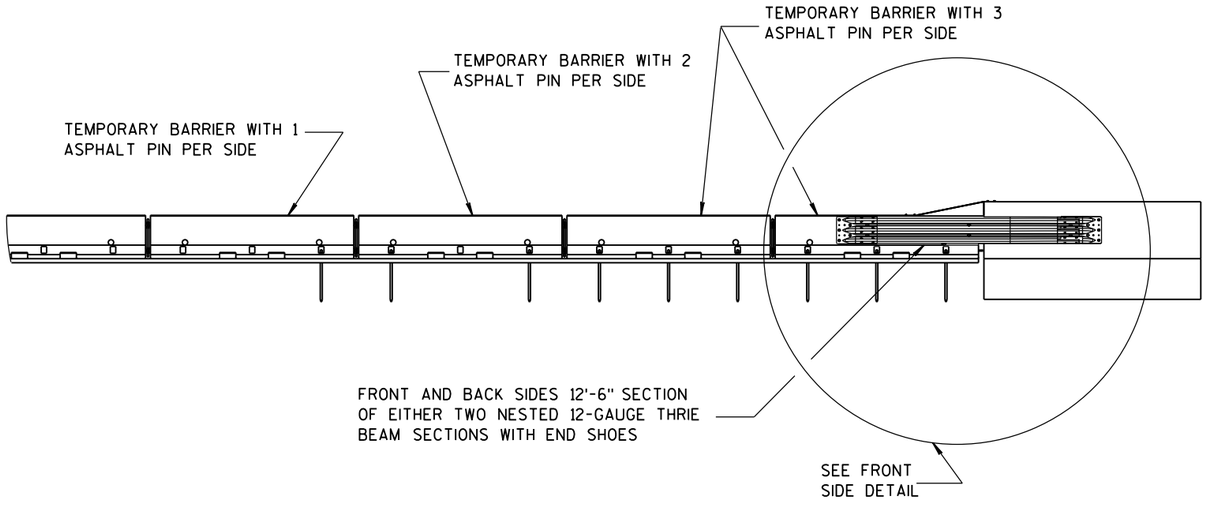
NOTES

NESTED THRIE BEAM IS REQUIRED ON BOTH SIDES OF THE TEMPORARY BARRIER FOR ALL INSTALLATIONS.

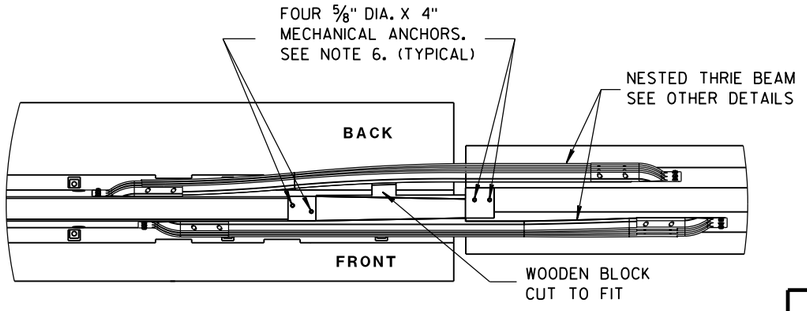
1. CAP END PLATE PLACED FLUSH WITH UPSTREAM END OF PERMANENT BARRIER OR PARAPET.
2. THRIE BEAM PIECES ARE OFFSET 15 1/4" TO PREVENT INTERFERENCE FROM THE ANCHORS ON OPPOSING SIDES.
3. MINIMUM MECHANICAL OR ADHESIVE ANCHOR STRENGTH REQUIREMENTS: ULTIMATE TENSILE LOAD 9.48 KIPS AND ULTIMATE SHEAR LOAD 10.48 KIPS.
4. MINIMUM MECHANICAL OR ADHESIVE ANCHOR STRENGTH REQUIREMENTS: ULTIMATE TENSILE LOAD 17.9 KIPS AND ULTIMATE SHEAR LOAD 21.96 KIPS.
5. MAY BE USED ON CONCRETE OR ASPHALT PAVEMENTS. ASPHALT OPTION SHOWN. FOR CONCRETE OPTION SEE OTHER DETAILS.
6. MINIMUM MECHANICAL OR ADHESIVE ANCHOR STRENGTH REQUIREMENTS: ULTIMATE TENSILE LOAD 12.14 KIPS AND ULTIMATE SHEAR LOAD 17.5 KIPS.



BACK VIEW



FRONT VIEW



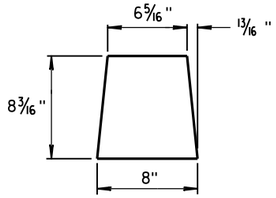
PLAN VIEW

BI-DIRECTIONAL TRANSITION TO TIED-DOWN SYSTEM

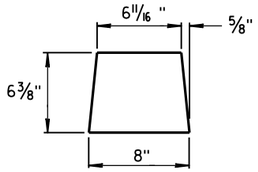
CONCRETE BARRIER
TEMPORARY PRECAST, 12'-6"

STATE OF WISCONSIN
DEPARTMENT OF TRANSPO

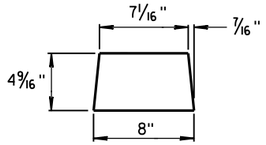
6
S.D.D. 14 B 7-14e



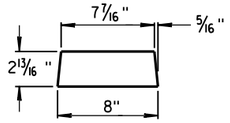
GUSSET 1



GUSSET 2

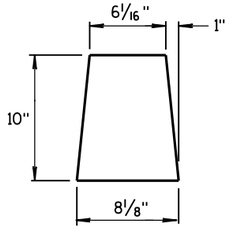


GUSSET 3

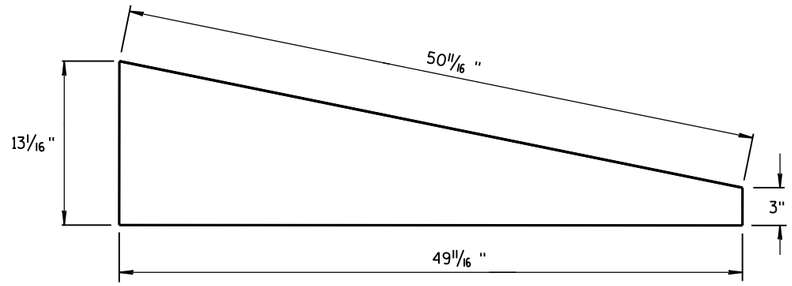


GUSSET 4

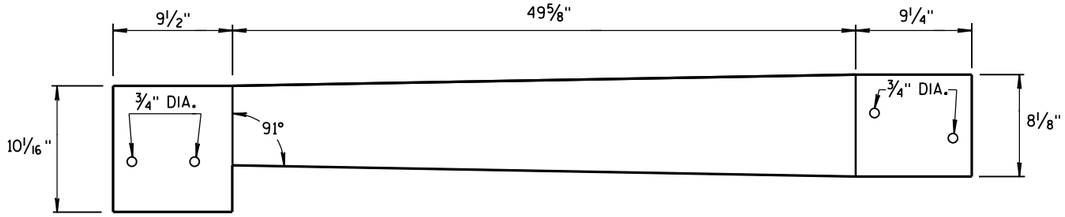
GUSSETS

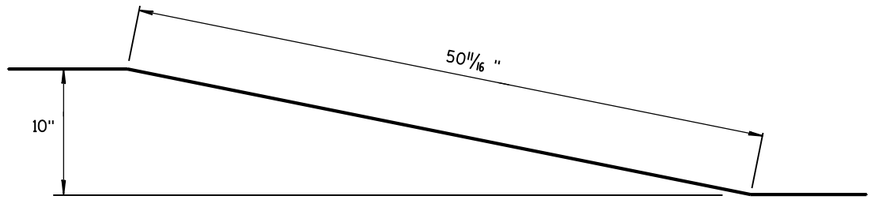


END PLATE



SIDE PLATE

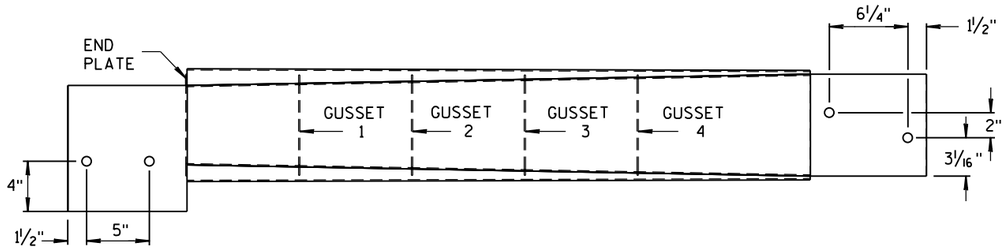


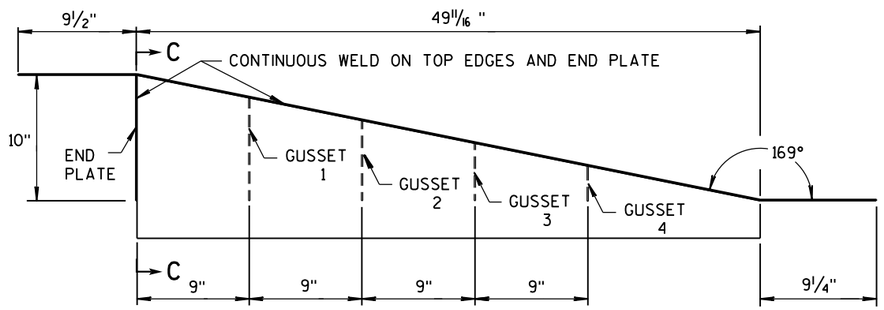


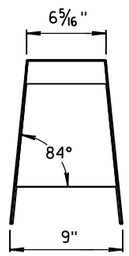
TOP PLATE

SIDE, TOP AND END PLATES FOR CAP FROM TEMPORARY CONCRETE BARRIER TO 42" PERMANENT CONCRETE BARRIER

SIDE PLATES, TOP PLATE, END PLATE AND GUSSETS ARE 12 GAUGE ASTM A36 GALVANIZED STEEL.







SECTION C-C

NOTES

1. FOUR GUSSETS AND END PLATE ARE STITCH WELDED ON THREE SIDES.
2. TWO TRIANGULAR SIDE PLATES ARE STITCH WELDED TO TOP PLATE, END PLATE, AND GUSSETS.

CAP DETAILS FOR TEMPORARY CONCRETE BARRIER TO 42" PERMANENT CONCRETE BARRIER

CONCRETE BARRIER
TEMPORARY PRECAST, 12'-6"

STATE OF WISCONSIN
DEPARTMENT OF TRANSPOI

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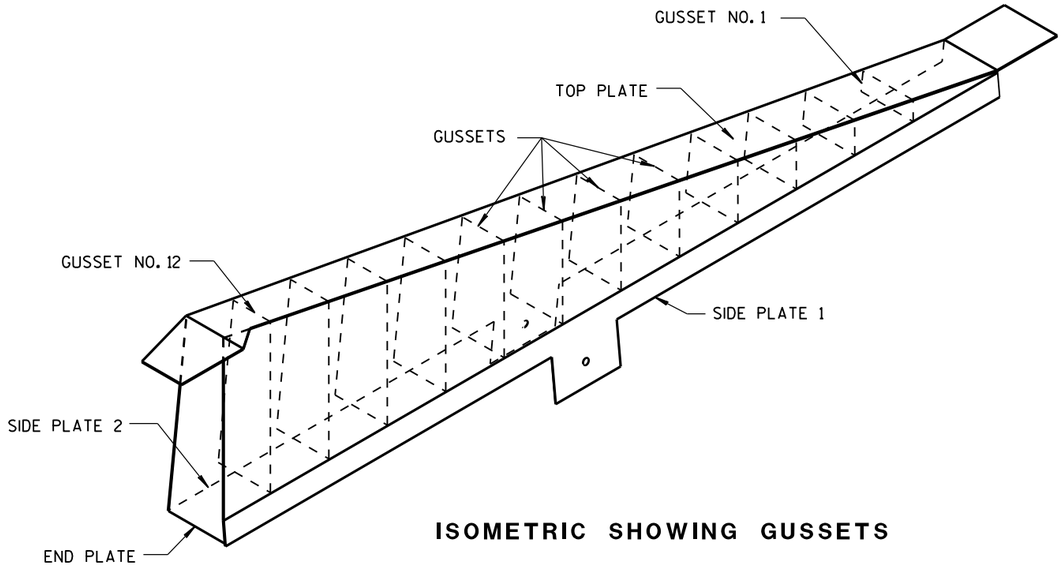
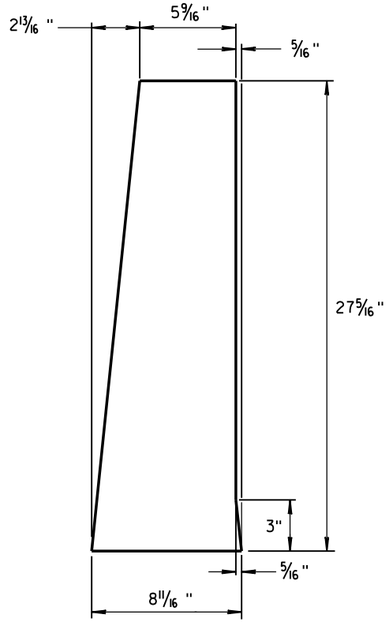
S.D.D. 14 B 7-14f

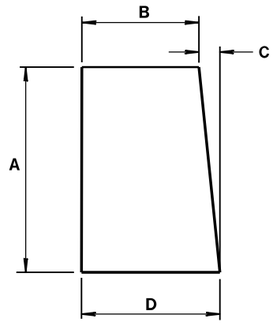


ISOMETRIC SHOWING GUSSETS



END PLATE

1/8" STEEL PLATE



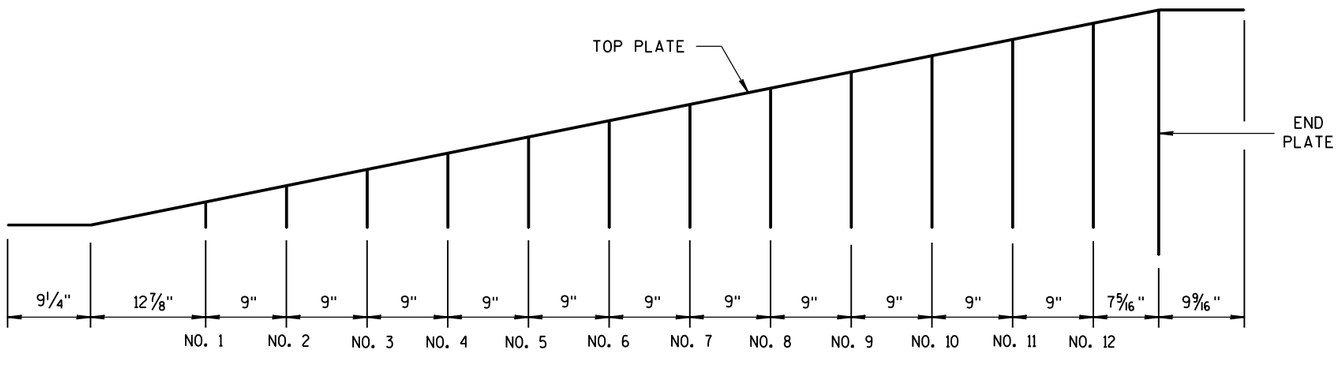
GUSSETS 1 - 12

ALL GUSSETS 1/8" STEEL PLATE

GUSSET DIMENSIONS				
GUSSET NO.	A	B	C	D
1	2 7/8"	7 3/4"	1/4"	8
2	4 11/16 "	7 9/16 "	1/2"	8
3	6 1/2"	7 3/8"	11/16 "	8 1/16 "
4	8 5/16 "	7 3/16 "	7/8"	8 1/16 "
5	10 1/8"	7"	1 1/16 "	8 1/16 "
6	11 15/16 "	6 13/16 "	1 1/4"	8 1/16 "
7	13 3/4"	6 5/8"	1 7/16 "	8 1/16 "
8	15 9/16 "	6 7/16 "	1 9/16 "	8 1/16 "
9	17 3/8"	6 1/4"	1 13/16 "	8 1/16 "
10	19 3/16 "	6 1/16 "	1 15/16 "	8 1/16 "
11	21"	5 7/8"	2 3/16 "	8 1/16 "
12	22 13/16 "	5 11/16 "	2 5/16 "	8 1/16 "

SIDE PLATES, TOP PLATE, END PLATE AND GUSSETS ARE 12 GAUGE ASTM A36 STEEL AND GALVANIZED.

GUSSETS AND END PLATE ARE STITCH WELDED ON 3 SIDES. TWO TRIANGULAR SIDE PLATES ARE STITCH WELDED TO TOP PLATE, END PLATE AND GUSSETS.



GUSSET LOCATION

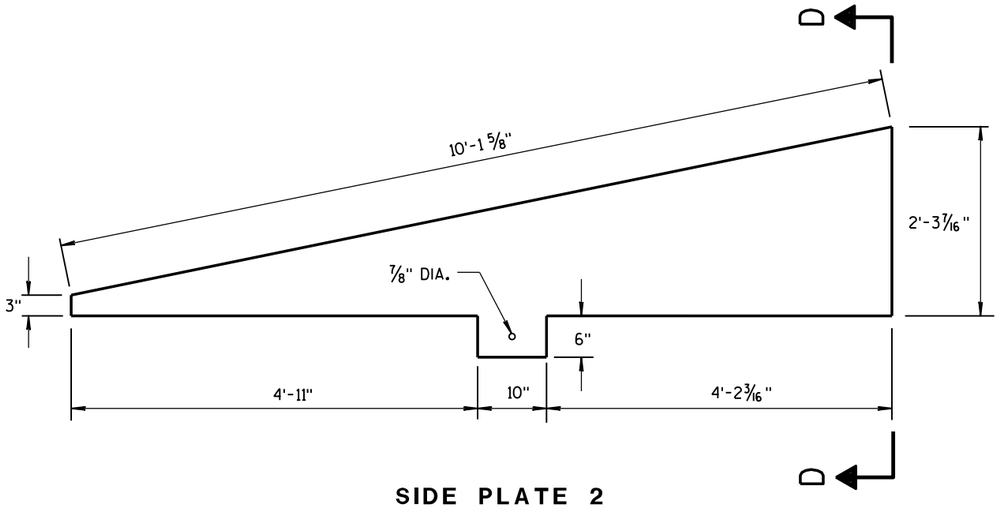
CAP DETAILS FOR TEMPORARY CONCRETE BARRIER TO 56" PERMANENT CONCRETE BARRIER

CONCRETE BARRIER
TEMPORARY PRECAST, 12'-6"

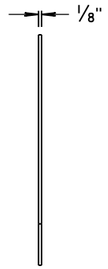
STATE OF WISCONSIN
DEPARTMENT OF TRANSPOI

6

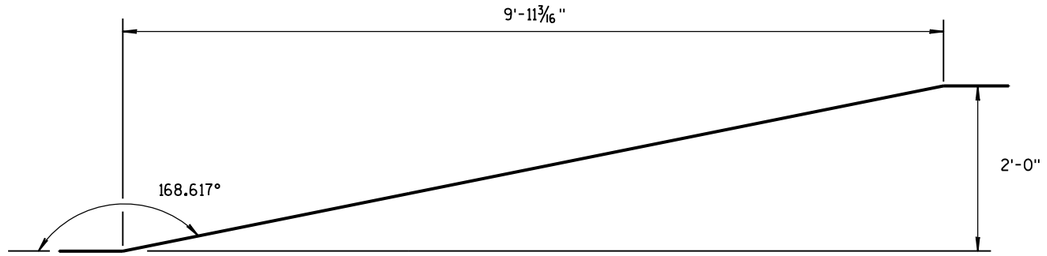
S.D.D. 14 B 7-14g



SIDE PLATE 2

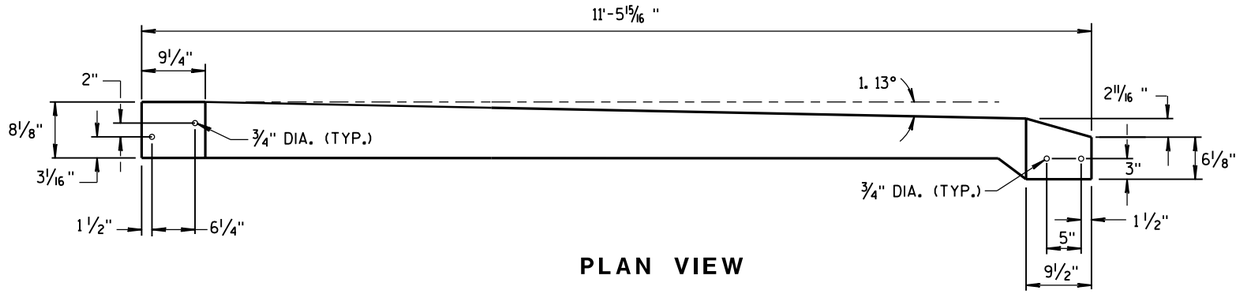


END VIEW



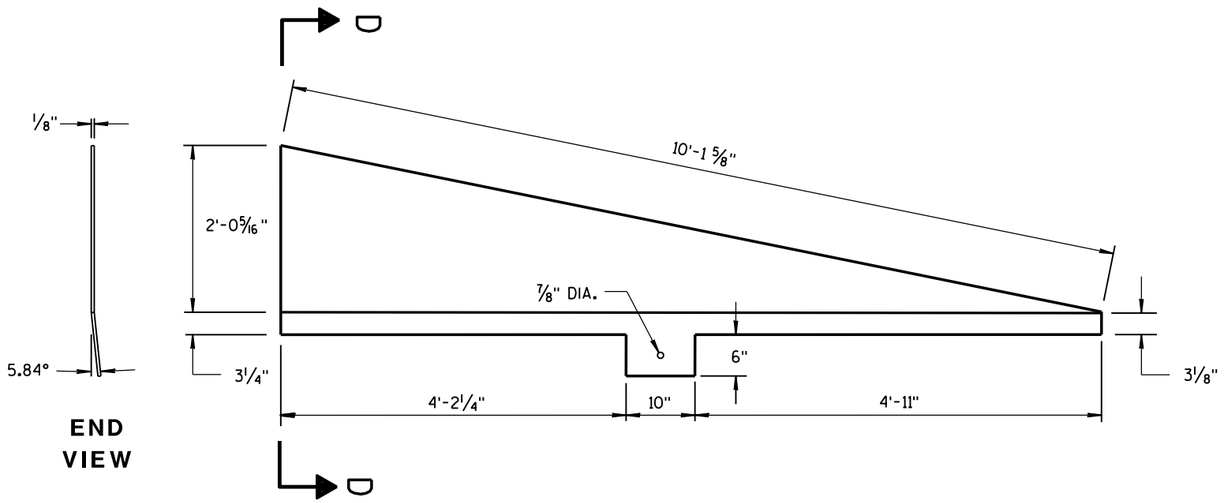
SIDE VIEW

TOP PLATE



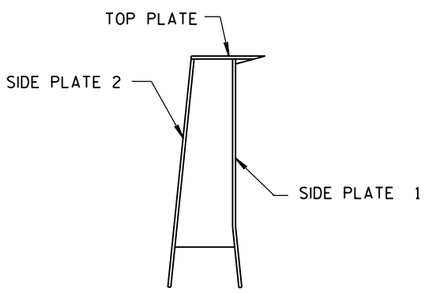
PLAN VIEW

TOP PLATE



END VIEW

SIDE PLATE 1



SECTION D-D

CAP DETAILS FOR TEMPORARY CONCRETE BARRIER TO 56" PERMANENT CONCRETE BARRIER

CONCRETE BARRIER TEMPORARY PRECAST, 12'-6"	
STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION	
APPROVED	
June 2014 DATE	/S/ Jerry H. Zoda ROADWAY STANDARD DEVELOPMENT ENGINEER
FHWA	

6

S.D.D. 14 B 7-14h

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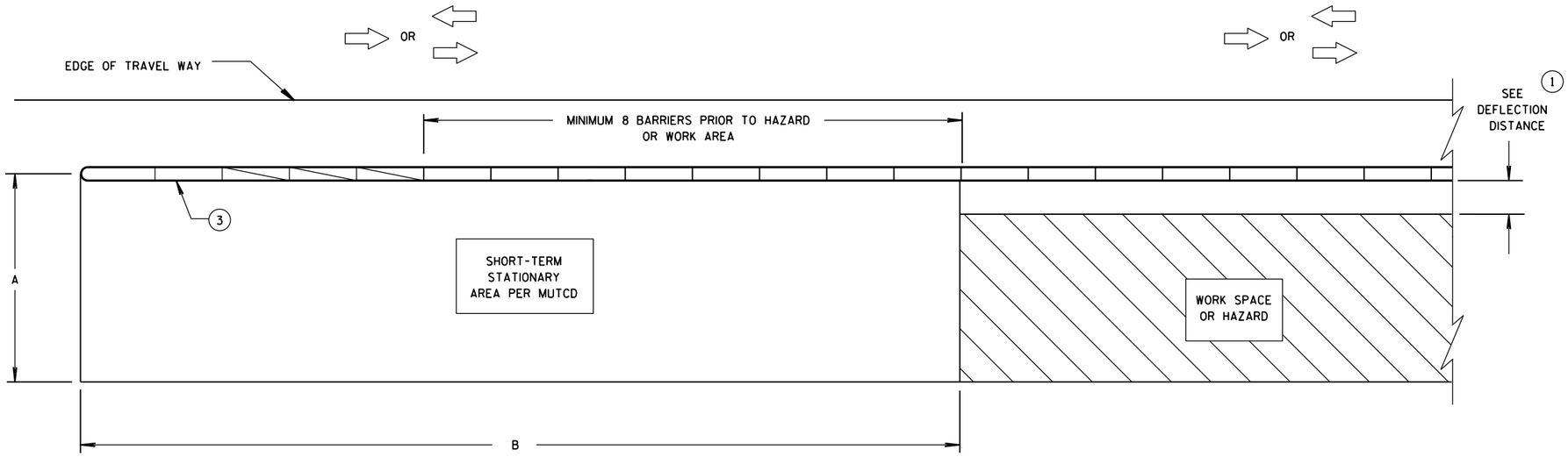
S.D.D. 14 B 7-14h



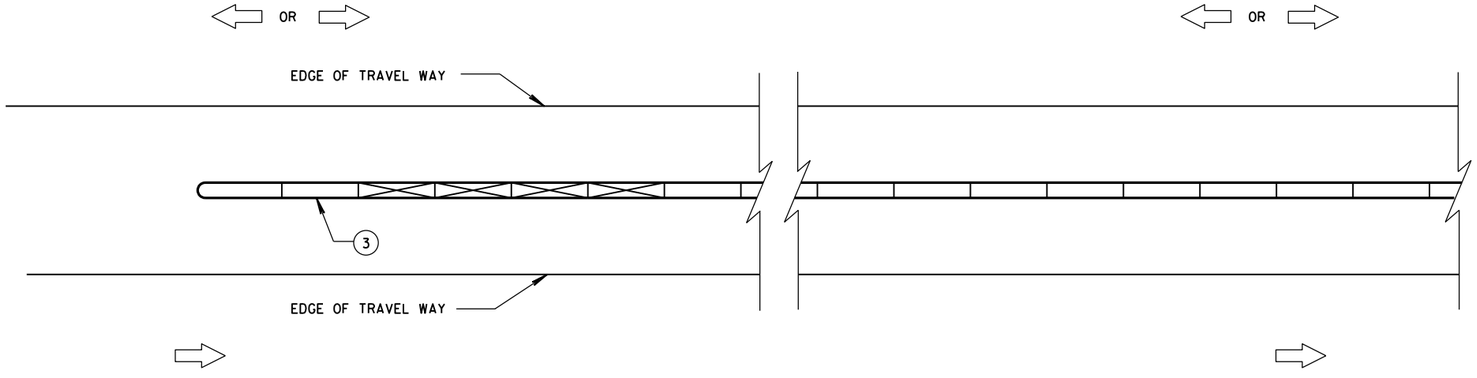
CRASH CUSHION/SAND BARREL ARRAY AND TEMPORARY BARRIER INSTALLATION FOR TRAFFIC ON ONE SIDE OF BARRIER

DIMENSION A TABLE (2)

FACILITY	POSTED SPEED MPH	DIMENSION A	
		MIN. FT	MAX. FT
FREEWAY/EXPRESSWAY	ALL	15	20
NON-FREEWAY/EXPRESSWAY	GREATER THAN OR EQUAL TO 45	10	15
NON-FREEWAY/EXPRESSWAY	LESS THAN 45	8	10
AADT LESS THAN 1,500	ALL	8	10

DIMENSION B TABLE (2)

POSTED SPEEDS MPH	DIMENSION B FT
20	115
25	155
30	200
35	250
40	305
45	360
50	425
55	495
60	570
65	645



CRASH CUSHION/SAND BARREL ARRAY AND TEMPORARY BARRIER INSTALLATION FOR TRAFFIC ON BOTH SIDES OF BARRIER

LEGEND

- DIRECTION OF TRAVEL
- CRASH CUSHION OR SAND BARREL ARRAY
- SEE FREE STANDING TRANSITION TO TIED-DOWN SYSTEM DETAILS
- SEE BI-DIRECTIONAL TRANSITION TO TIED-DOWN SYSTEM DETAILS
- 3 PINS PLACED ON TRAFFIC SIDE OF BARRIER
- PERMANENT CONCRETE BARRIER OR CONCRETE PARAPET
- FREE STANDING TEMPORARY BARRIER

GENERAL NOTES

SEE STANDARD DETAIL DRAWING 14B7 FOR MORE INFORMATION.

DETAILS PROVIDE A GENERAL LAYOUT OF TEMPORARY CONCRETE BARRIER, CRASH CUSHIONS, SAND BARREL ARRAYS AND TIE DOWN TRANSITIONS. DETAILS PROVIDED MAY NOT FIT ALL POSSIBLE SITUATIONS OR SITE CONDITIONS. SEE OTHER SECTIONS OF THE CONTRACT OR PROJECT ENGINEER FOR MORE DETAILS.

ADDITIONAL TEMPORARY BARRIER MAY BE REQUIRED TO PROTECT TRAVELING PUBLIC FROM HAZARDS, CONTRACTOR'S OPERATIONS OR TO CONTROL TRAFFIC.

TEMPORARY BARRIER MAY BE REQUIRED TO BE ANCHORED TO PAVEMENT OR BRIDGE DECK.

FOR DETAILS ON CRASH CUSHION OR SAND BARREL ARRAYS SEE OTHER SECTIONS OF THE PLAN AND MANUFACTURE'S DETAILS.

SLOPES LEADING TO TEMPORARY BARRIER, CRASH CUSHION OR SAND BARREL ARRAY ARE 10:1 OR LESS.

(1) FOR DEFLECTION INFORMATION SEE STANDARD DETAIL DRAWING 14B7.

(2) VALUES PROVIDED MAY NOT FIT ALL POSSIBLE SITUATIONS OR SITE CONDITIONS. SEE OTHER SECTIONS OF THE CONTRACT OR PROJECT ENGINEER FOR MORE DETAILS.

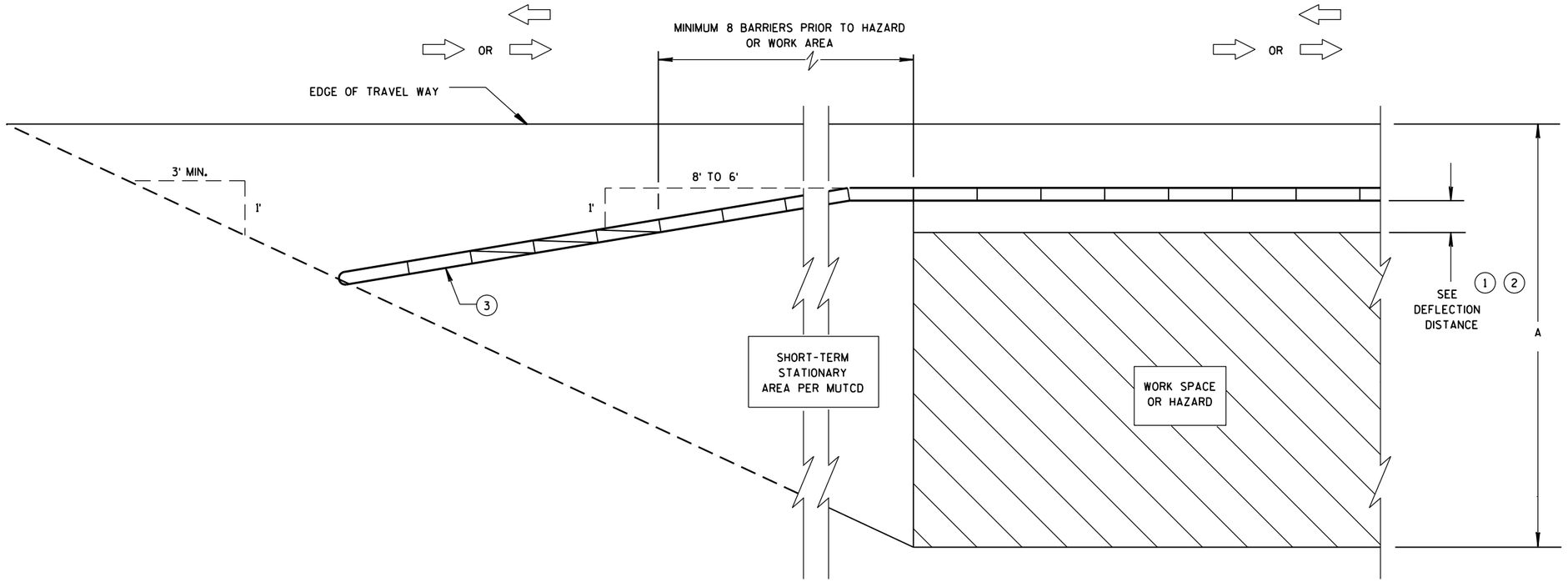
(3) ANCHOR TEMPORARY BARRIER ACCORDING TO CRASH CUSHION OR SAND BARREL MANUFACTURER'S RECOMMENDATIONS. IF MANUFACTURER'S RECOMMENDATIONS ARE NOT PROVIDED, ANCHOR 3 PINS ON TRAFFIC SIDE.

CRASH CUSHION/SAND BARREL ARRAY AND OTHER TEMPORARY BARRIER LAYOUT DETAILS

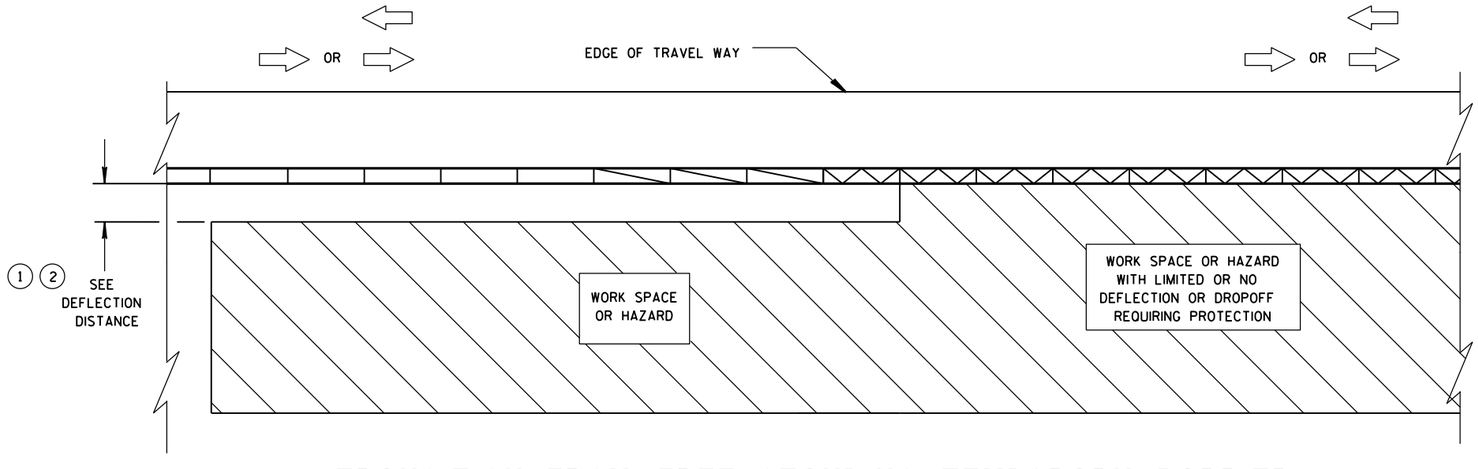
STATE OF WISCONSIN
DEPARTMENT OF TRANSPOI

6

S.D.D. 14 B 8-2a



CRASH CUSHION/SAND BARREL ARRAY AND TEMPORARY BARRIER INSTALLATION FOR TRAFFIC ON ONE SIDE - FLARED INSTALLATION



TRANSITION FROM FREE STANDING TEMPORARY BARRIER TO ANCHORED BARRIER

LEGEND

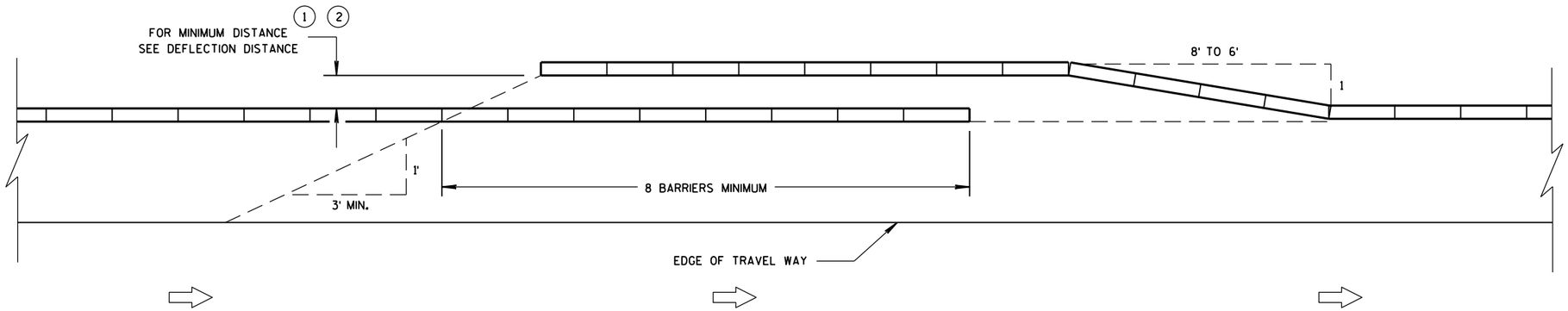
- DIRECTION OF TRAVEL
- CRASH CUSHION OR SAND BARREL ARRAY
- SEE FREE STANDING TRANSITION TO TIED-DOWN SYSTEM DETAILS
- SEE BI-DIRECTIONAL TRANSITION TO TIED-DOWN SYSTEM DETAILS
- 3 PINS PLACED ON TRAFFIC SIDE OF BARRIER
- PERMANENT CONCRETE BARRIER OR CONCRETE PARAPET
- FREE STANDING TEMPORARY BARRIER

CRASH CUSHION/SAND BARREL ARRAY AND OTHER TEMPORARY BARRIER LAYOUT DETAILS

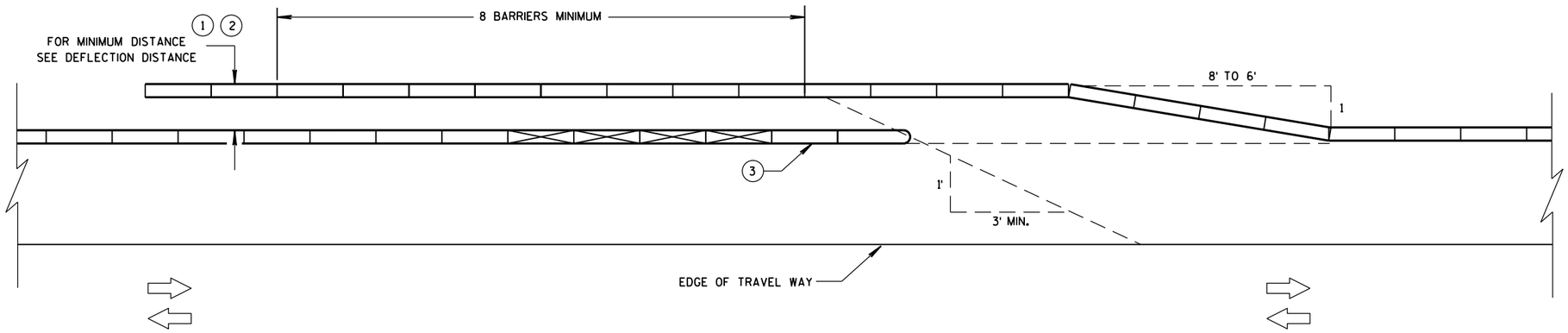
STATE OF WISCONSIN
DEPARTMENT OF TRANSPOI

6

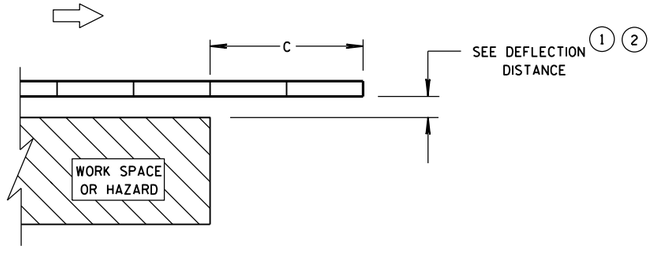
S.D.D. 14 B 8-2b



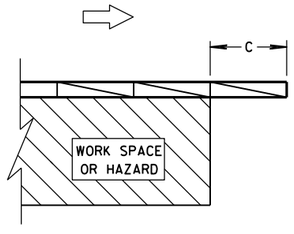
TEMPORARY BARRIER OVERLAP - ONE-WAY TRAFFIC



TEMPORARY BARRIER OVERLAP - TWO-WAY TRAFFIC



ENDING TEMPORARY BARRIER DOWNSTREAM - UNANCHORED



ENDING TEMPORARY BARRIER DOWNSTREAM - ANCHORED

LEGEND

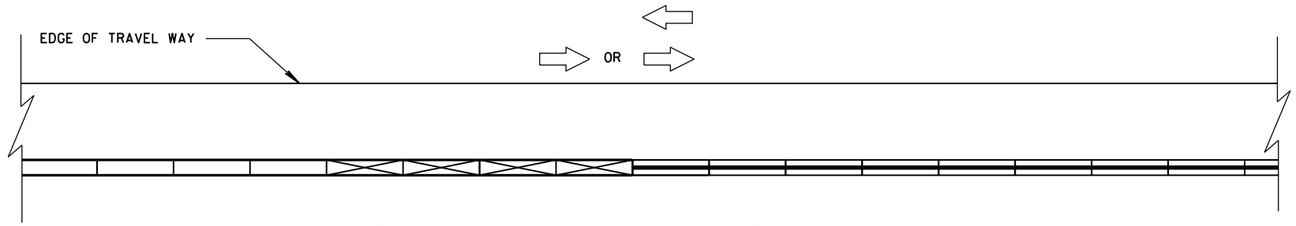
- DIRECTION OF TRAVEL
- CRASH CUSHION OR SAND BARREL ARRAY
- SEE FREE STANDING TRANSITION TO TIED-DOWN SYSTEM DETAILS
- SEE BI-DIRECTIONAL TRANSITION TO TIED-DOWN SYSTEM DETAILS
- 3 PINS PLACED ON TRAFFIC SIDE OF BARRIER
- PERMANENT CONCRETE BARRIER OR CONCRETE PARAPET
- FREE STANDING TEMPORARY BARRIER

CRASH CUSHION/SAND BARREL ARRAY AND OTHER TEMPORARY BARRIER LAYOUT DETAILS

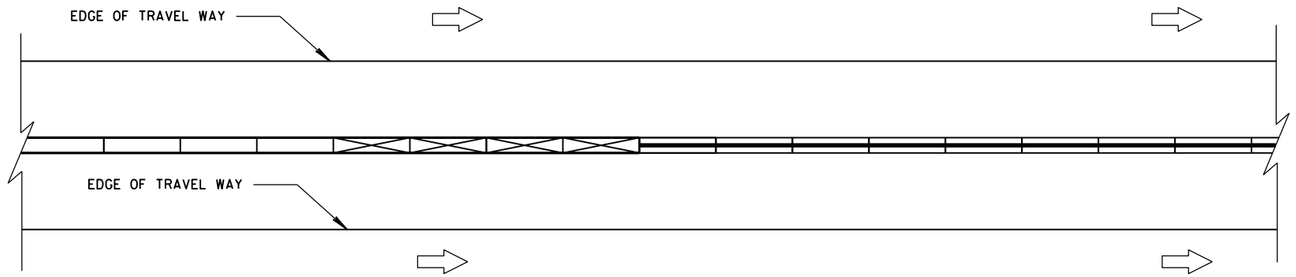
STATE OF WISCONSIN
DEPARTMENT OF TRANSPOR

6

S.D.D. 14 B 8-2c



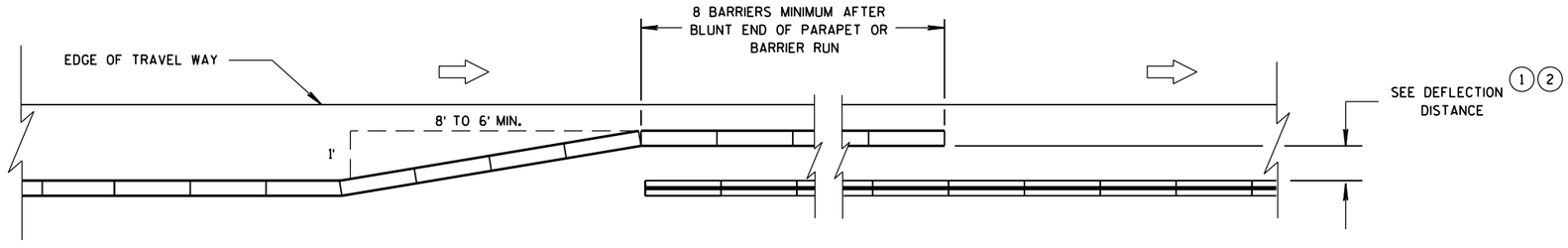
CONNECTING TEMPORARY BARRIER TO PERMANENT
CONCRETE BARRIER-TRAFFIC ON ONE SIDE



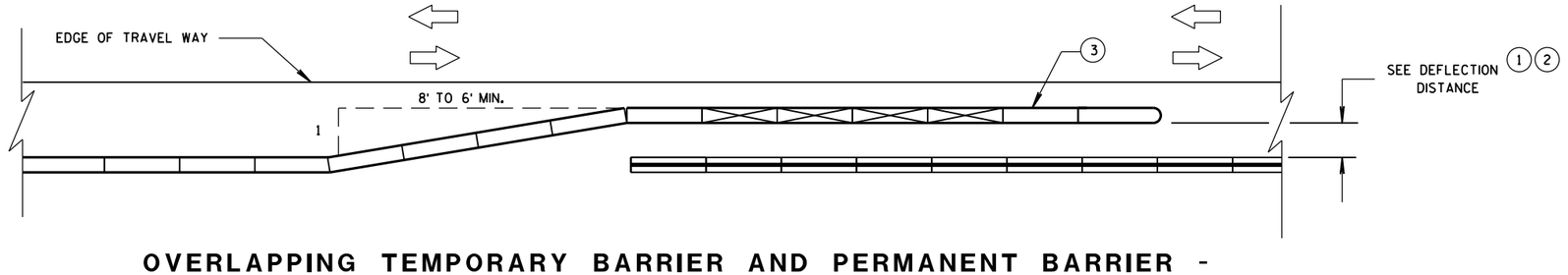
CONNECTING TEMPORARY BARRIER TO PERMANENT
CONCRETE BARRIER-TRAFFIC ON BOTH SIDES

LEGEND

- DIRECTION OF TRAVEL
- CRASH CUSHION OR SAND BARREL ARRAY
- SEE FREE STANDING TRANSITION TO TIED-DOWN SYSTEM DETAILS
- SEE BI-DIRECTIONAL TRANSITION TO TIED-DOWN SYSTEM DETAILS
- 3 PINS PLACED ON TRAFFIC SIDE OF BARRIER
- PERMANENT CONCRETE BARRIER OR CONCRETE PARAPET
- FREE STANDING TEMPORARY BARRIER



OVERLAPPING TEMPORARY BARRIER AND PERMANENT BARRIER -
ONE WAY TRAFFIC



OVERLAPPING TEMPORARY BARRIER AND PERMANENT BARRIER -
TWO WAY TRAFFIC

CRASH CUSHION/SAND BARREL ARRAY AND OTHER TEMPORARY BARRIER LAYOUT DETAILS

STATE OF WISCONSIN
DEPARTMENT OF TRANSPOI

6

S.D.D. 14 B 8-2d

LEGEND

DIRECTION OF TRAVEL

CRASH CUSHION OR SAND BARREL ARRAY

SEE FREE STANDING TRANSITION TO TIED-DOWN SYSTEM DETAILS

SEE BI-DIRECTIONAL TRANSITION TO TIED-DOWN SYSTEM DETAILS

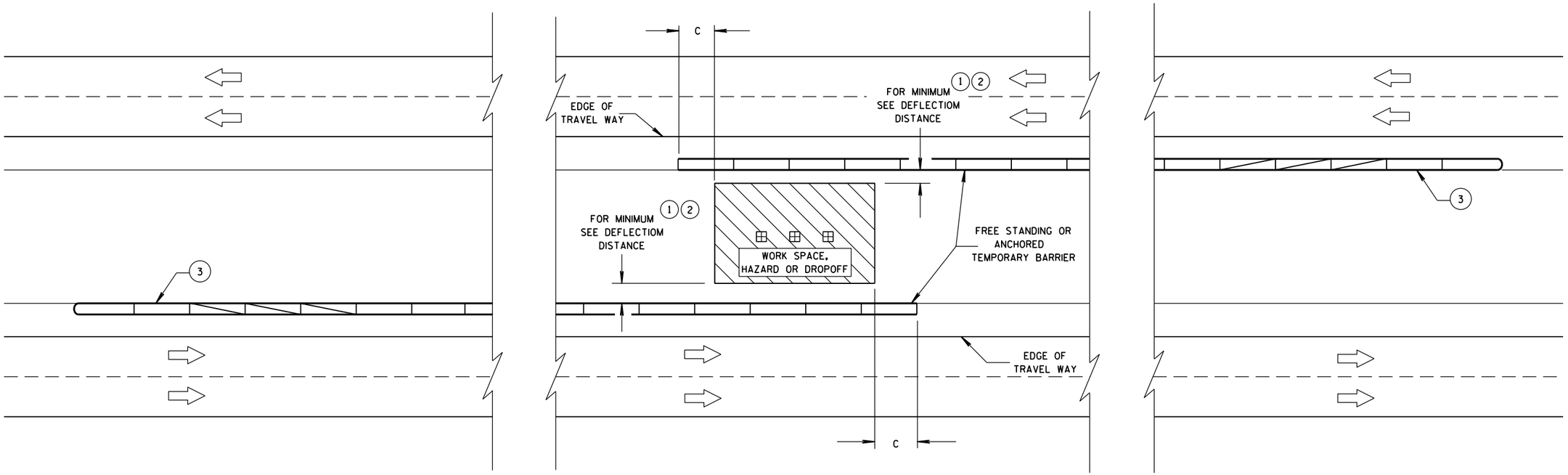
3 PINS PLACED ON TRAFFIC SIDE OF BARRIER

PERMANENT CONCRETE BARRIER OR CONCRETE PARAPET

FREE STANDING TEMPORARY BARRIER

DIMENSION C TABLE (2)

AVAILABLE DEFLECTION DISTANCE	MINIMUM LENGTH OF BARRIER BEYOND HAZARD FT
GREATER THAN 8'	12.5
LESS THAN OR EQUAL TO 8' BUT GREATER THAN 4'	50
LESS THAN OR EQUAL TO 4'	100



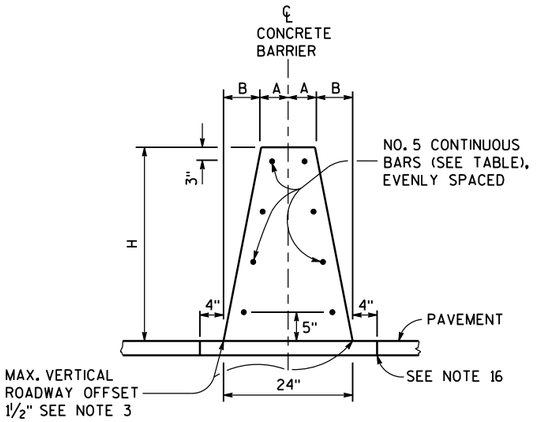
CRASH CUSHION/SAND BARREL ARRAY AND OTHER TEMPORARY BARRIER LAYOUT DETAILS

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

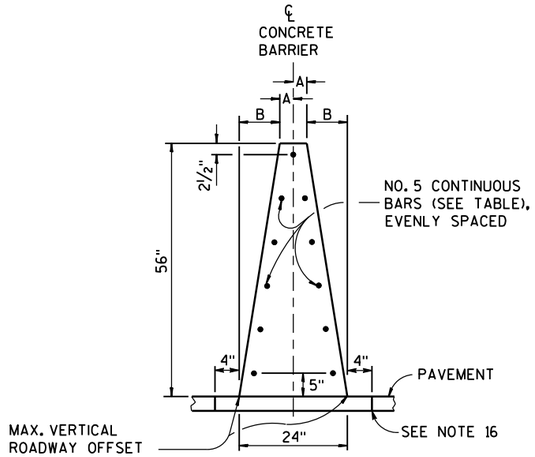
APPROVED
June, 2015
DATE
/S/ Jerry H. Zogg
ROADWAY STANDARDS DEVELOPMENT ENGINNER
FHWA

6

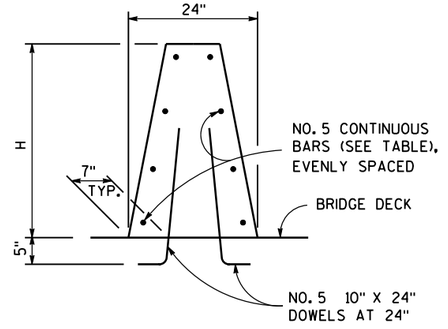
S.D.D. 14 B 8-2e



32-INCH, 36-INCH OR 42-INCH SINGLE SLOPE CONCRETE BARRIER (TYPE S32, TYPE S36, AND TYPE S42)



56-INCH SINGLE SLOPE CONCRETE BARRIER (TYPE S56)



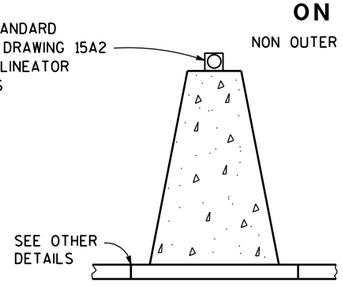
SINGLE SLOPE CONCRETE BARRIER ON BRIDGE

NON OUTER PARAPET APPLICATION

GENERAL NOTES

1. WHERE THE CONCRETE BARRIER IS ADDED TO THE FACE OF EXISTING CONCRETE STRUCTURE, MATCH EXISTING WEEP HOLES.
2. EXPANSION JOINTS IN CONCRETE BARRIER SHALL BE LOCATED AT ALL DECK, AND PRINCIPAL WALL JOINTS. EXPANSION JOINT FILLER MATERIAL SHALL BE THE SAME SIZE AS JOINT OR ½" MINIMUM.
3. WHERE VERTICAL ROADWAY OFFSET IS GREATER THAN 1½", USE TYPE A
4. PLACE BARRIER PERPENDICULAR TO SHOULDER GRADE, UNLESS INDICATED IN PLAN.
5. EXCEPT IN ANCHORS, VERTICAL REINFORCING STIRRUP NOT REQUIRED FOR ROADWAY OFFSETS LESS THAN 1'-0".
6. FOR TYPE S32, TYPE S36, TYPE S42, AND S56 MONOLITHIC FOOTING OR DOWELED FOOTING WITH 2-#8 x 8" @ 2'-0".
7. STAGGER LAPPING OF LONGITUDINAL STEEL. MINIMUM OVERLAP OF STEEL 2 FEET. BARS AT LAPS TO BE FIRMLY TIED OR CONNECTED.
8. 4000 PSI CONCRETE AIR ENTRAINMENT PER STANDARD SPECIFICATION 501.
9. WHEN SWITCHING BETWEEN SLIP FORM AND CAST-IN-PLACE OPERATIONS, EXTEND LONGITUDINAL STEEL 3 FEET BEYOND SLIP-FORMING CUT OFF POINT. EXPOSED STEEL INTO NEXT POURS REINFORCEMENT. LAPS TO BE FIRMLY TIED.
10. USE ¾" BEVEL OR 1" RADIUS ON ALL EXPOSED SHARP EDGES UNLESS OTHERWISE NOTED.
11. 2" CLEAR COVER TYPICAL.
12. COLD-JOINTS MAY BE USED BETWEEN ANCHOR INSTALLATIONS. WHEN A COLD JOINT IS NEEDED, 3 FEET OF LAP OF LONGITUDINAL STEEL IS REQUIRED. LAPS TO BE FIRMLY TIED.
13. IN TYPE S32, TYPE S36, TYPE S42 AND TYPE S56 NO ADDITIONAL VERTICAL STEEL NEEDED. IN TYPE S32A, TYPE S36A, TYPE S42A AND TYPE S56A REQUIRES VERTICAL STEEL. SEE OTHER DETAIL.
14. IN TYPE S32, TYPE S36, TYPE S42 AND TYPE S56 DEPTH OF FOOTING 10". IN TYPE S32A, TYPE S36A, TYPE S42A AND TYPE S56A MATCH TOTAL HEIGHT OF SINGLE SLOPE BARRIER RETAINING WALL.
15. FOR ALL BARRIER TYPES SHOWN, ANCHOR IS REQUIRED AT CONCRETE BARRIER ENDS AND AT INTERRUPTIONS IN CONCRETE BARRIER. ANCHOR MAY BE AS SHOWN ON DRAWING OR DETAILS SHOWN ON S.D.D. 14B33. ANCHORS INCIDENTAL TO CBSS.
16. CONCRETE PAD UNDER CBSS MAY BE PLACED INTEGRAL WITH BARRIER, PLACED SEPARATELY OR PLACED WITH CONCRETE SHOULDER AND SAWED FULL DEPTH. CONCRETE PAD MINIMUM DEPTH IS 6 INCHES, OR EQUAL TO THE DEPTH OF THE CONCRETE SHOULDER.

BARRIER HEIGHT H INCHES	A INCHES	B INCHES	NUMBER OF NO. 5 BARS EACH
32	7	5	8
36	6¼	5¾	8
42	5¼	6¾	10
56	3	9	11



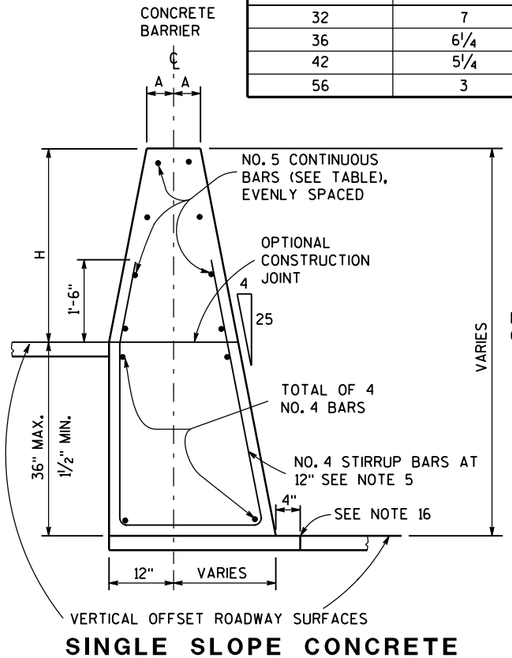
DELINEATION

DELINEATOR SPACING ON HORIZONTAL CURVES

RADIUS OF CURVE	APPROXIMATE SPACING ON CURVE
50 FEET	20 FEET
115 FEET	25 FEET
180 FEET	35 FEET
250 FEET	40 FEET
300 FEET	50 FEET
400 FEET	55 FEET
500 FEET	65 FEET
600 FEET	70 FEET
700 FEET	75 FEET
800 FEET	80 FEET
900 FEET	85 FEET
1000 FEET	90 FEET

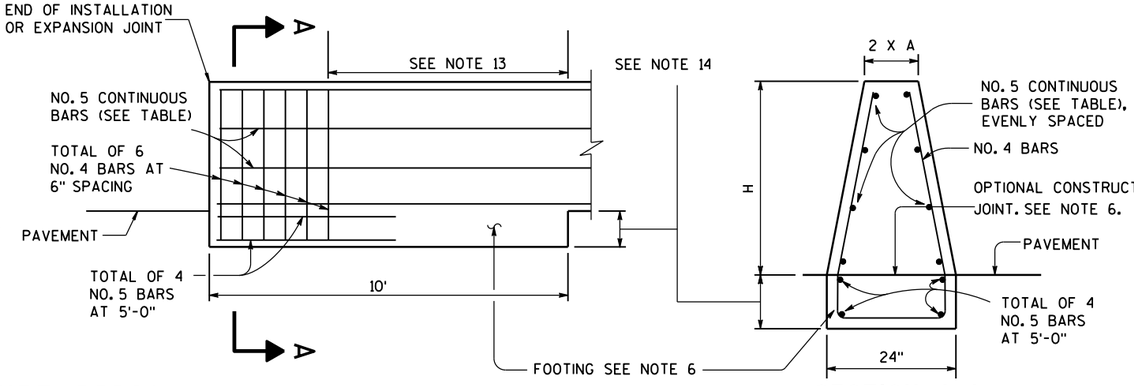
DELINEATOR SPACING ON RADIUS GREATER THAN 1000 FEET OR TANGENT SECTIONS

	LENGTH OF BARRIER	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	6
	> 200'	50' C-C	1	
TWO WAY TRAFFIC	< 200'	50' C-C	2	3
	> 200'	100' C-C	2	



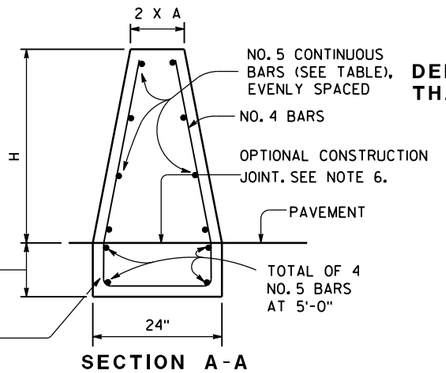
SINGLE SLOPE CONCRETE BARRIER AND RETAINING WALL (TYPE S32A, TYPE S36A, TYPE S42A, TYPE S56A)

(BETWEEN ADJACENT ROADWAYS)



END ANCHOR SINGLE SLOPE CONCRETE BARRIER

AT CONSTRUCTION JOINT



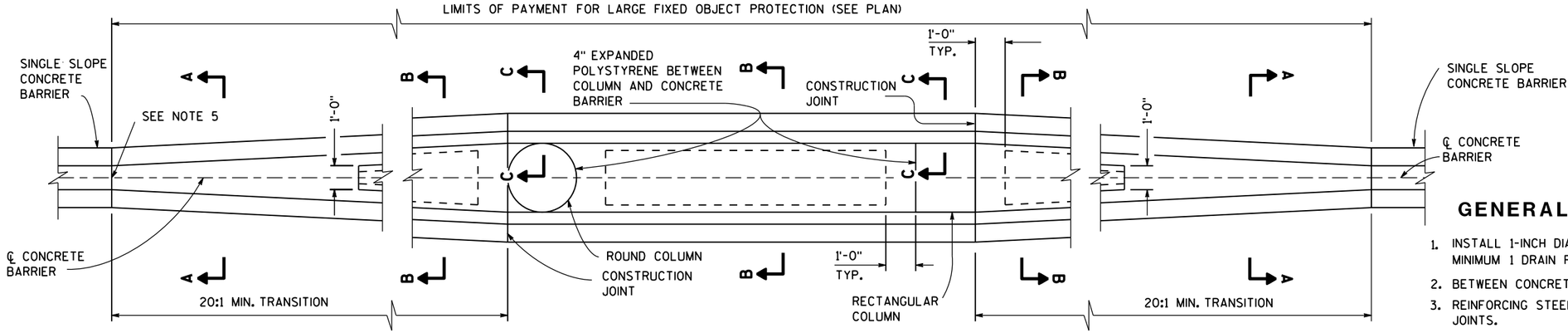
SECTION A-A

CONCRETE BARRIER SINGLE SLOPE (CBSS)

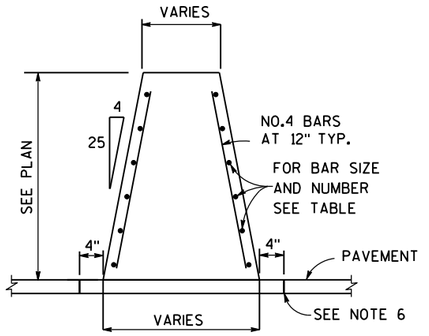
STATE OF WISCONSIN
DEPARTMENT OF TRANSPOR

6

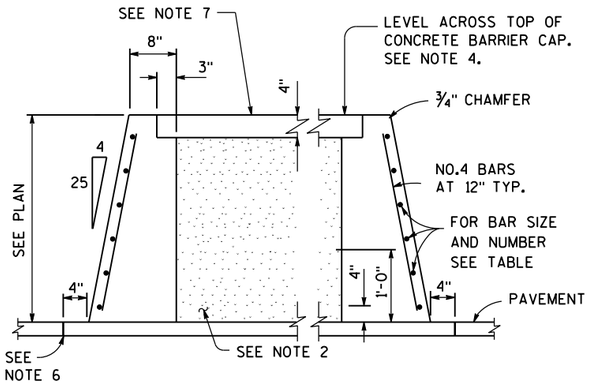
S.D.D. 14 B 32-4a



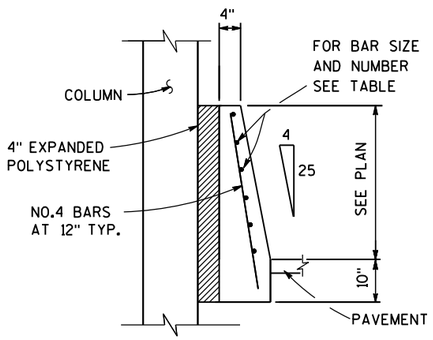
LARGE FIXED OBJECTS PROTECTION
TYPE S32, TYPE S36, TYPE S42, TYPE S56



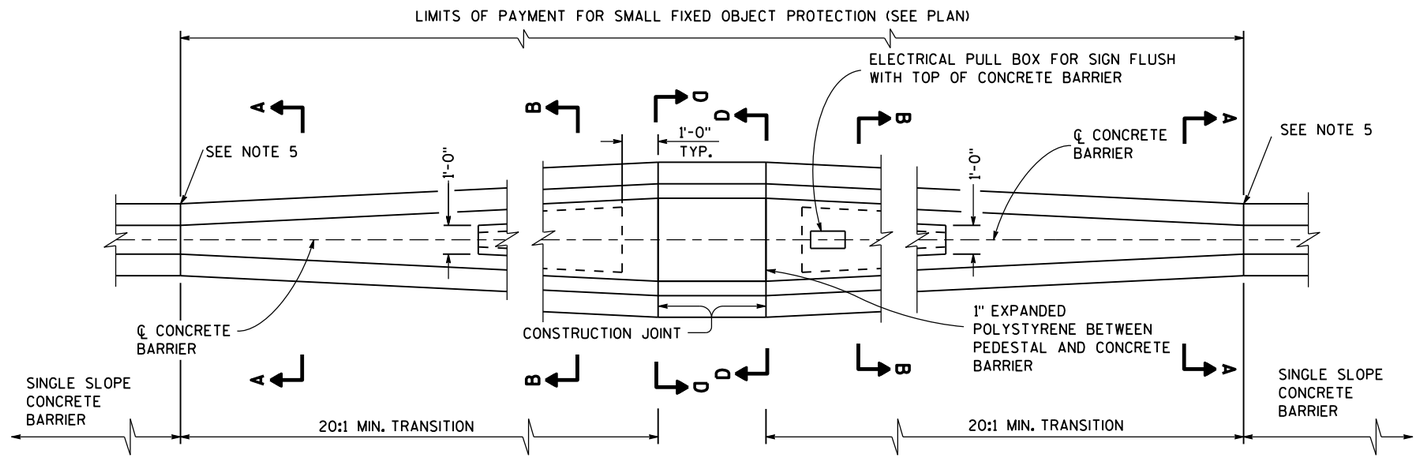
SECTION A-A



SECTION B-B



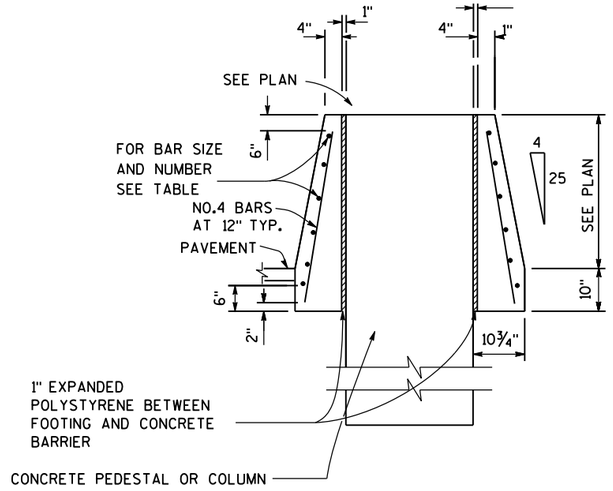
SECTION C-C



SMALL FIXED OBJECTS PROTECTION
TYPE S32, TYPE S36, TYPE S42, TYPE S56

GENERAL NOTES

1. INSTALL 1-INCH DIAMETER DRAIN PIPE EVERY 20 FEET OF CROSS SECTION B-B. MINIMUM 1 DRAIN PER CAVITY.
2. BETWEEN CONCRETE BARRIER WALLS FILL WITH FOUNDATION BACKFILL.
3. REINFORCING STEEL SHALL EXTEND CONTINUOUS THROUGH CONSTRUCTION JOINTS.
4. ADJUST HEIGHT OF CONCRETE BARRIER WALL ON LOW SIDE OF OFFSET OR SUPERELEVATED ROADWAYS TO PROVIDE LEVEL GRADE ACROSS TOP OF CONCRETE CAP.
5. IF FIXED OBJECT PROTECTION IS INSTALLED FIRST, USE COLD JOINTS. IF CBSS PLACED FIRST, USE EXPANSION JOINT.
6. CONCRETE PAD UNDER CBSS MAY BE PLACED INTEGRAL WITH BARRIER, PLACED SEPARATELY OR PLACED WITH CONCRETE SHOULDER AND SAWED FULL DEPTH. SAWING OF CONCRETE SHOULDER IS INCIDENTAL TO CONCRETE BARRIER BID ITEM. CONCRETE PAD MINIMUM DEPTH IS 6 INCHES, OR EQUAL TO THE DEPTH OF THE CONCRETE SHOULDER.
7. USE NO. 3 BAR SPACED 12 INCHES CENTER TO CENTER (PLACED IN EACH DIRECTION) OR EQUIVALENT WIRE MESH.



SECTION D-D

BARRIER HEIGHT H INCHES	BAR SIZE	NUMBER OF BARS EACH
32	4	6
36	4	6
42	5	6
56	5	9

CONCRETE BARRIER SINGLE SLOPE (CBSS)

STATE OF WISCONSIN
DEPARTMENT OF TRANSPOI

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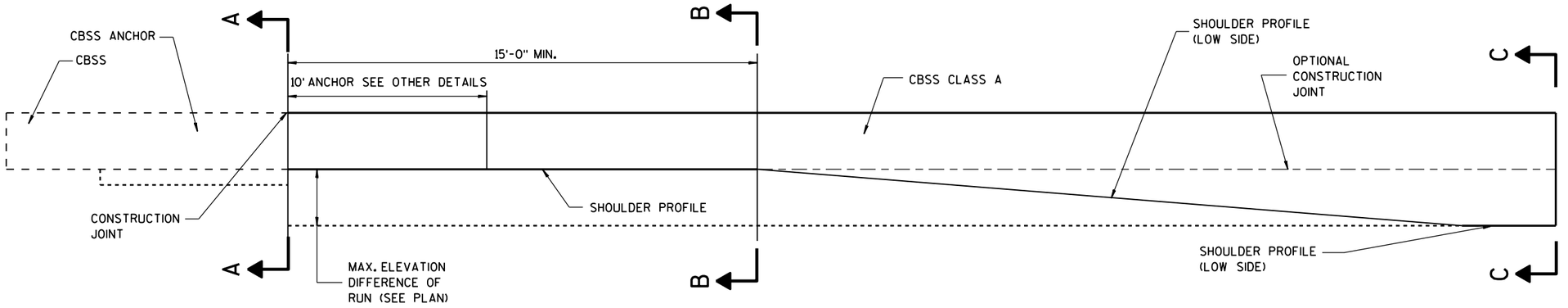
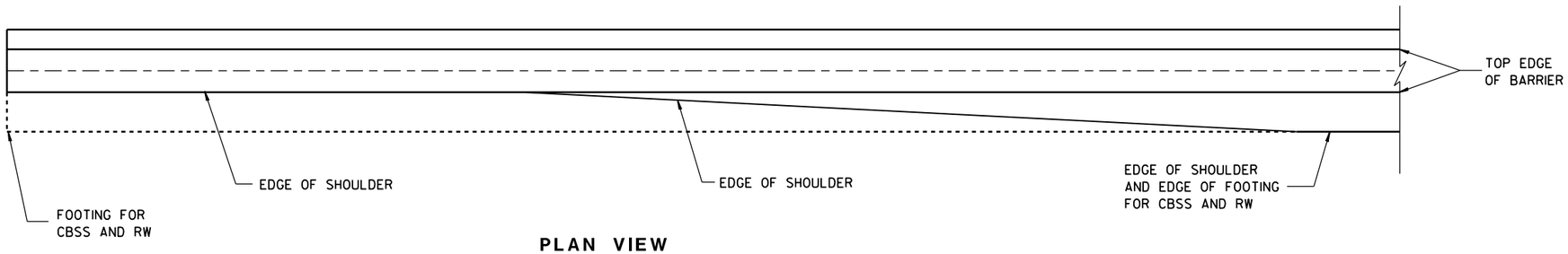
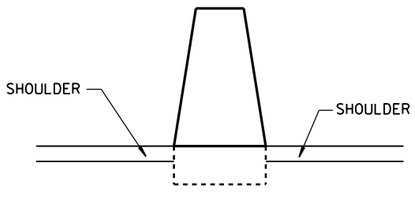
S.D.D. 14 B 32-4b



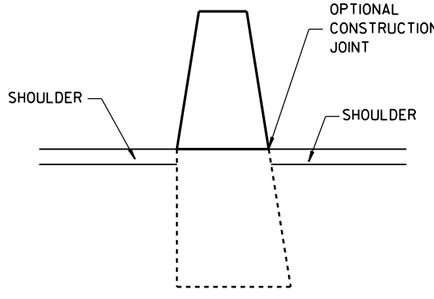
ELEVATION VIEW
TRANSITION TO CBSS CLASS A
(TYPE S32A, TYPE S36A, TYPE S42A, TYPE S56A)



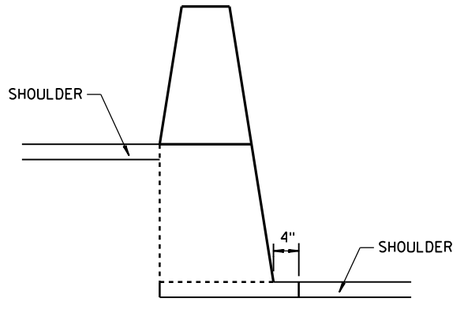
PLAN VIEW
TRANSITION TO CBSS CLASS A
(TYPE S32A, TYPE S36A, TYPE S42A, TYPE S56A)



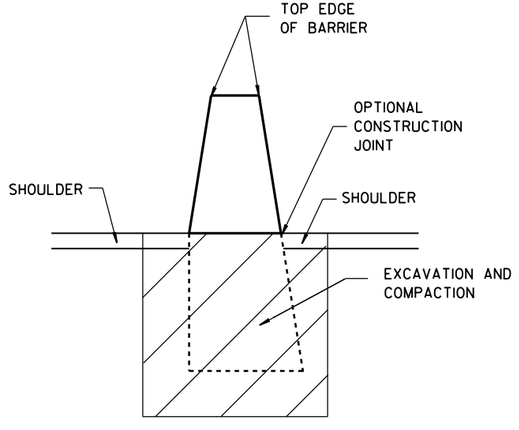
SECTION A-A



SECTION B-B



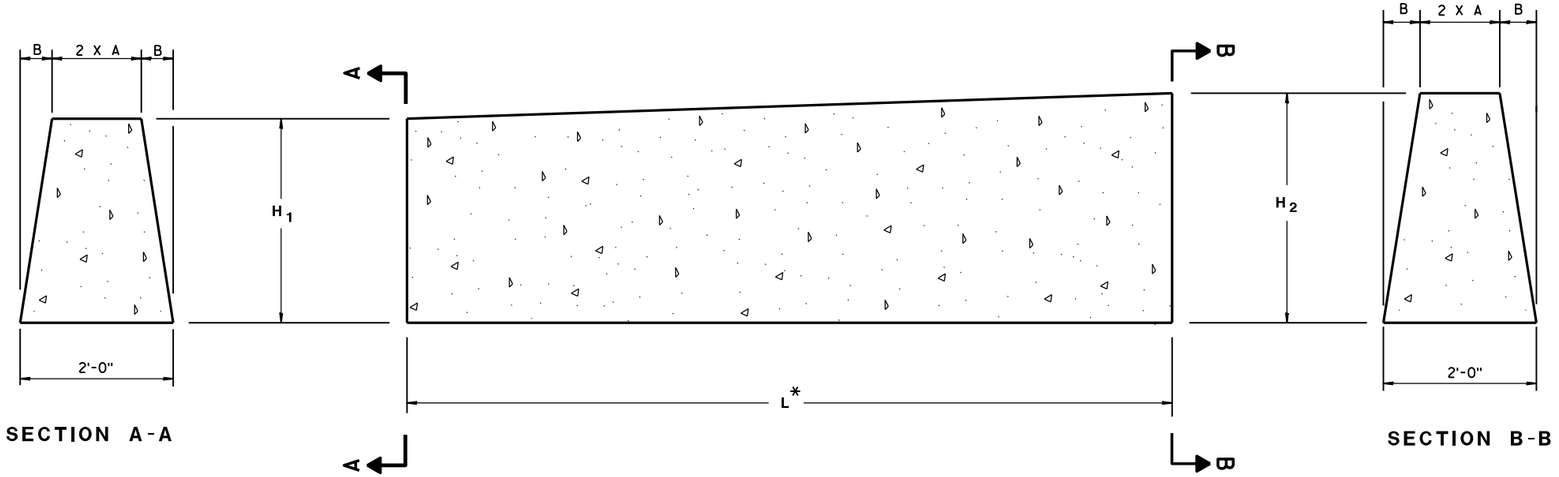
SECTION C-C



CONCRETE BARRIER SINGLE SLOPE (CBSS)

STATE OF WISCONSIN
DEPARTMENT OF TRANSPOR

6
S.D.D. 14 B 32-4c



SECTION A-A

SECTION B-B

DOUBLE COLD JOINT HEIGHT TRANSITION

BARRIER DIMENSIONS

BARRIER HEIGHT INCHES	A INCHES	B INCHES
32	7	5
36	6 1/4	5 3/4
42	5 1/4	6 3/4
56	3	9

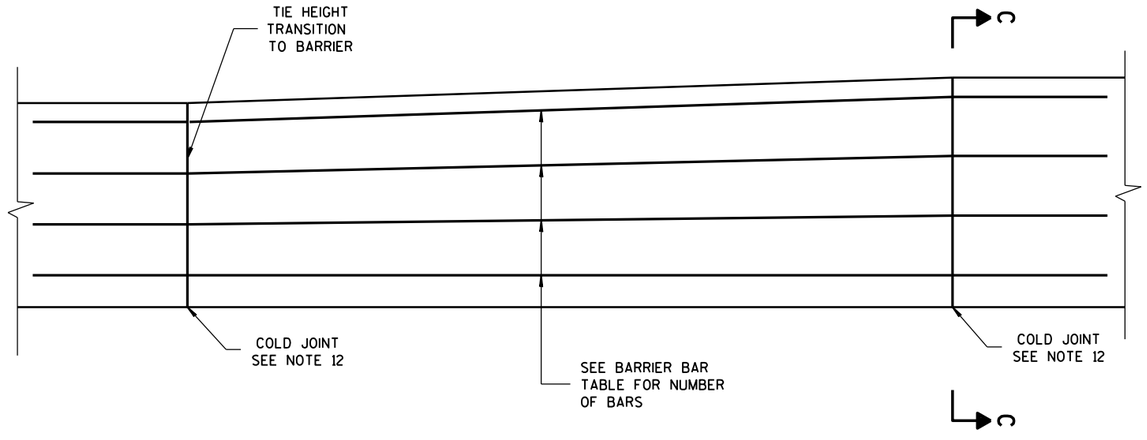
MULTIPLE HEIGHT TRANSITIONS MAY BE USED IN SEQUENCE TO GET TO APPROPRIATE HEIGHT.

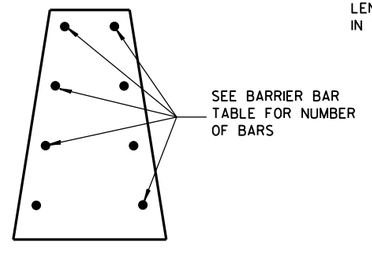
USE COLD JOINT TO CONNECT MULTIPLE HEIGHT TRANSITIONS.

BARRIER BARS

H_1	H_2	L*	NUMBER OF NO. 5 BARS
32"	36"	10'-0"	8
36"	42"	10'-6"	10
42"	56"	24'-6"	11

* LENGTH OF DOUBLE COLD JOINT INCLUDED IN THE TOTAL LENGTH OF CBSS.





SECTION C-C

STEEL REINFORCEMENT DETAIL

CONCRETE BARRIER SINGLE SLOPE

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED

June 2016 — DATE

/S/ Jerry H. Zogg — ROADWAY STANDARDS DEVELOPMENT ENGINEER

FHWA

6

S.D.D. 14 B 32-4d

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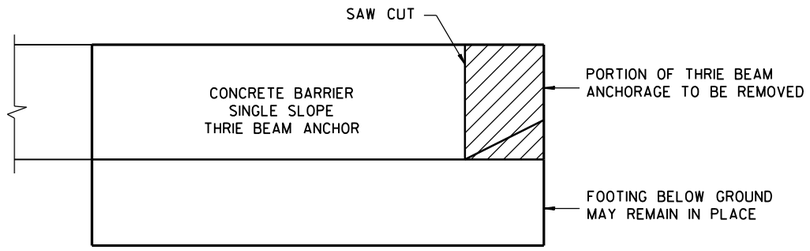
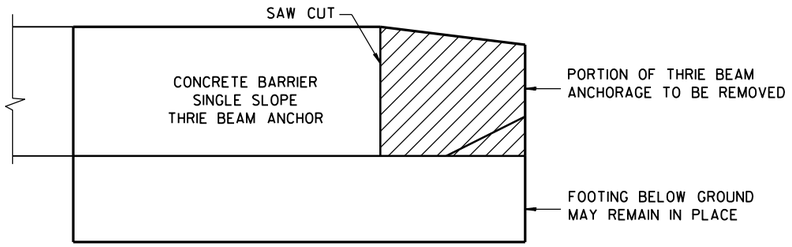
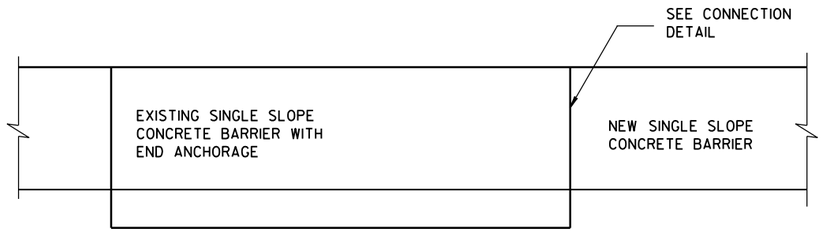


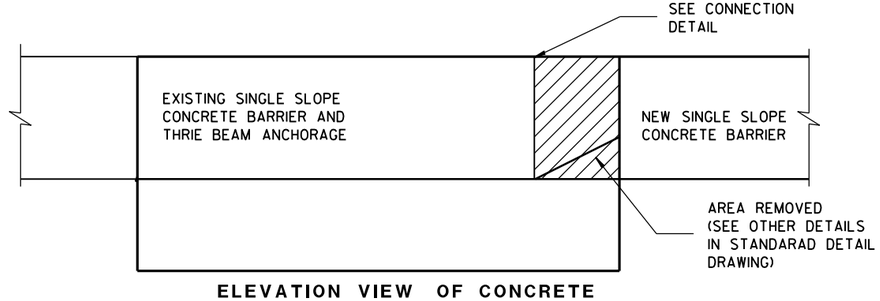
REMOVAL AREA OF
32" CONCRETE THRIE BEAM ANCHORAGE



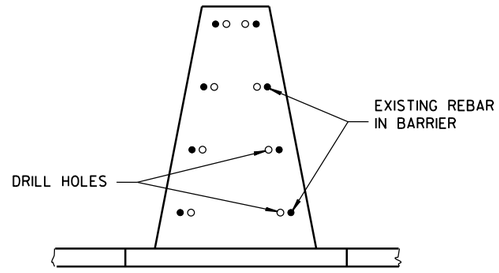
REMOVAL AREA OF CONCRETE THRIE BEAM
ANCHORAGE WITH HEIGHT GREATER THAN 32"



ELEVATION VIEW OF CONCRETE
BARRIER EXTENSION NEAR END ANCHORAGE



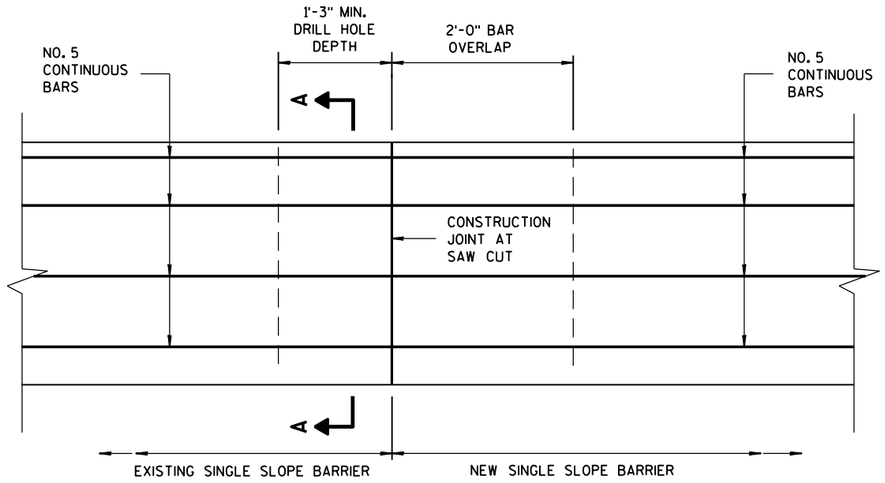
ELEVATION VIEW OF CONCRETE
BARRIER EXTENSION NEAR THRIE BEAM TERMINAL



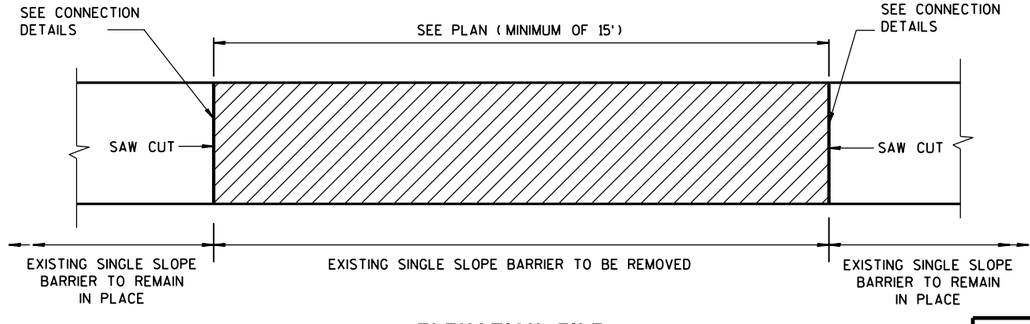
SECTION A-A

GENERAL NOTES

1. THE NUMBER OF DRILL HOLES IS EQUAL TO THE NUMBER OF REBAR IN BARRIER (SEE OTHER DETAILS).
2. MINIMUM DEPTH OF DRILL HOLES IS 1'-3".
3. DRILL HOLES TO BE A MINIMUM OF 4 INCHES FROM THE EDGE OF CONCRETE.
4. INSTALL EPOXY COATED NO. 5 BARS IN DRILL HOLES.
5. END ANCHORAGE MAY OR MAY NOT BE PRESENT ON EXISTING BARRIER.
6. REMOVE THRIE BEAM ANCHORAGE AS SHOWN.



CONNECTION OF EXISTING SINGLE SLOPE CONCRETE BARRIER TO
NEW SINGLE SLOPE CONCRETE BARRIER



ELEVATION FILE
BARRIER REMOVAL AND REPLACEMENT

CONCRETE BARRIER
SINGLE SLOPE

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
June 2016 — DATE
/S/ Jerry H. Zogg
ROADWAY STANDARDS DEVELOPMENT ENGINEER
FHWA

RETROFIT OR REPAIR SINGLE SLOPE CONCRETE BARRIER

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① WOOD OR STEEL POSTS (w6X9 OR w6X8.5) MAY BE USED. DO NOT INTERMIX WOOD AND STEEL POSTS. INSTALL STEEL POSTS WITH HOLES ON APPROACHING TRAFFIC SIDE.

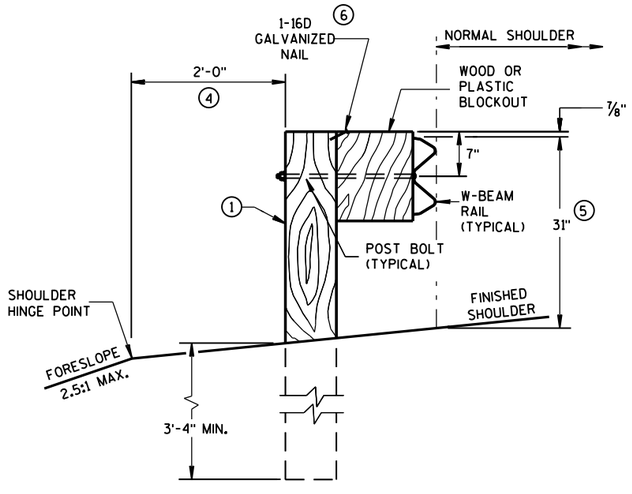
② USE WOOD OR APPROVED PLASTIC BLOCKOUTS. WOOD BLOCKOUTS MAY BE CONSTRUCTED OUT OF TWO OR MORE WOOD BLOCKOUTS. SEE ALTERNATE WOOD BLOCKOUT DETAIL. DIMENSIONS OF APPROVED PLASTIC BLOCKOUTS MAY VARY.

③ IF ROCK IS ENCOUNTERED DURING EXCAVATION, PROVIDE A HOLE 12 INCHES IN DIAMETER EXTENDING 20 INCHES DEEP INTO THE ROCK. PLACE APPROXIMATELY 2½ INCHES OF GRANULAR MATERIAL IN THE BOTTOM OF THE HOLE. CUT THE POSTS THE TO LENGTH AMD INSTALL. BACKFILL WITH EXCAVATED MATERIAL AND COMPACT. BACKFILL IS TO BE FREE OF LARGE ROCKS.

④ WHEN THE DISTANCE FROM BACK OF POST TO SHOULDER HINGE POINT IS LESS THAN 2 FEET INSTALL LONGER POST AT HALF POST SPACING (K).

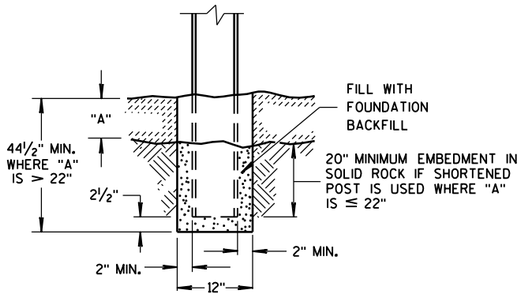
⑤ FOR NEW MGS INSTALLATION TOP OF W-BEAM RAIL TOLERANCE IS ± 1". FOR EXISTING MGS INSTALLATION TOP OF W-BEAM IS BETWEEN 27¾" TO 32".

⑥ WHEN USING STEEL POST AND WOOD BLOCKOUTS INSTALL FOUR 16D GALVANIZED NAILS. INSTALL NAILS AT THE BACK CORNERS OF THE BLOCK AND BEND THE NAILS OVER THE FLANGE OF THE STEEL POST.



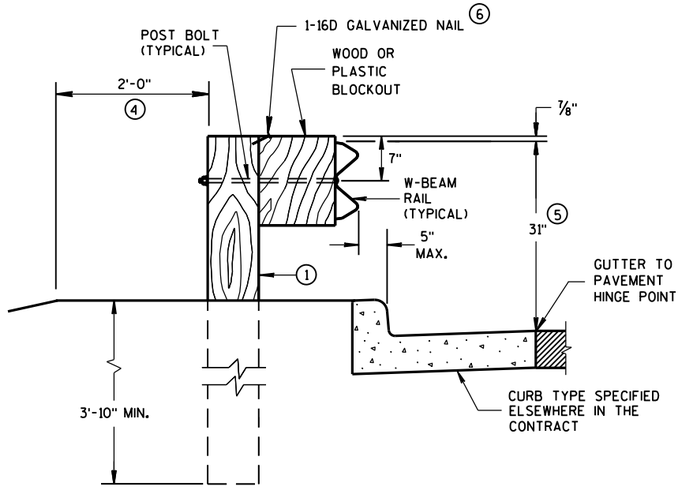
END VIEW

LOCATED ALONG A ROADWAY SHOULDER
STANDARD INSTALLATION



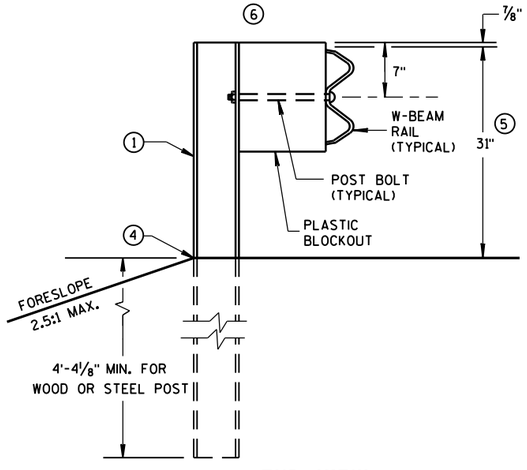
END VIEW

SETTING STEEL OR WOOD POST IN ROCK ③



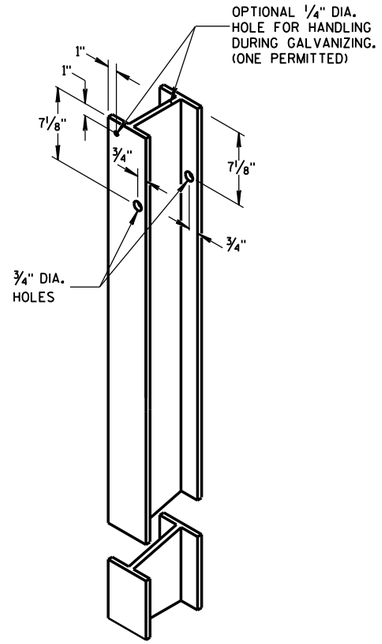
END VIEW

LOCATED ALONG A CURBED ROADWAY

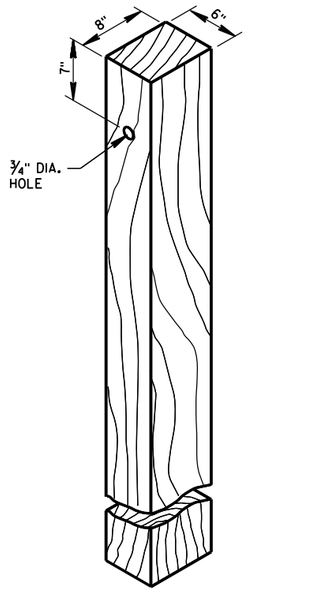


END VIEW

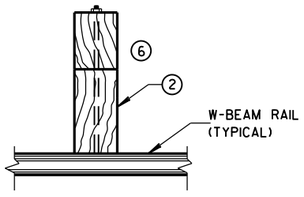
MGS LONGER POST AT HALFPOST SPACING W BEAM (K)



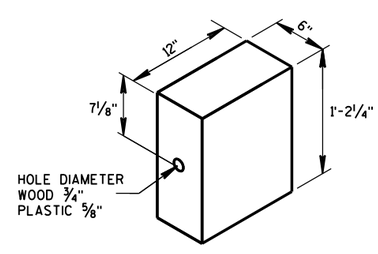
STEEL POST &
HOLE PUNCHING DETAIL
(w6X9) ①



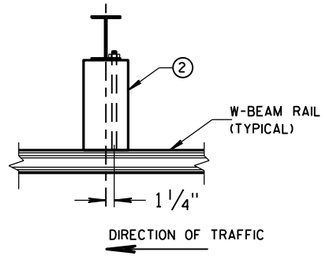
WOOD POST
(6" X 8") NOMINAL ①



PLAN VIEW
WOOD POST,
BLOCKOUT & BEAM



WOOD OR
PLASTIC BLOCKOUT ②



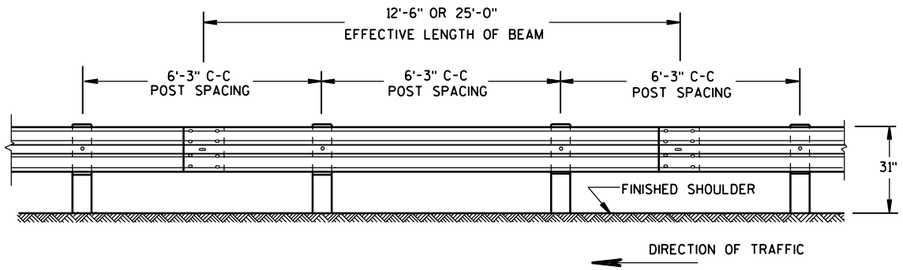
PLAN VIEW
STEEL POST,
PLASTIC BLOCKOUT & BEAM

MIDWEST GUARDRAIL SYSTEM
(MGS) GUARDRAIL

STATE OF WISCONSIN
DEPARTMENT OF TRANSPOI

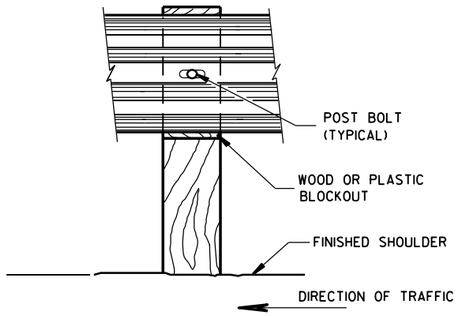
6

S.D.D. 14 B 42-4a



FRONT VIEW

POST SPACING STANDARD INSTALLATION



FRONT VIEW AT WOOD POST

7. PROVIDE SILVER REFLECTIVE SHEETING ON ALL REFLECTORS EXCEPT THOSE LOCATED ALONG THE LEFT EDGE OF ONE-WAY ROADWAYS, WHICH SHALL BE PROVIDED WITH YELLOW REFLECTIVE SHEETING. SHEETING IS TYPE H. SEE STANDARD SPECIFICATION 637.

8. DO NOT INSTALL REFLECTORS ON THE FIRST 50 FEET OF THE APPROACH END OF THE ENERGY ABSORBING TERMINAL. RAIL SPLICE LOCATIONS ARE THE ONLY ACCEPTABLE LOCATIONS FOR REFLECTORS.

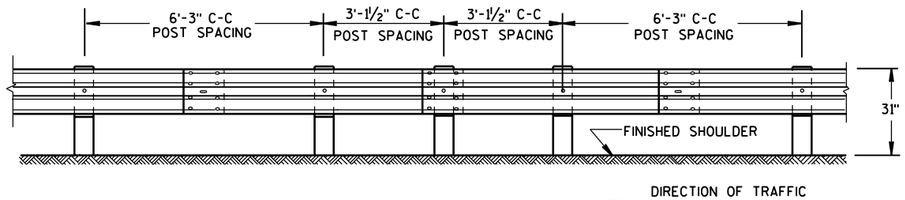
9. REVERSE EVERY OTHER REFLECTOR FOR 2-WAY VISIBILITY. THE CONTRACTOR MAY FURNISH TWO-SIDED REFLECTORS IN LIEU OF ONE-SIDED REFLECTORS.

10. PROVIDE AN ANGLE OF BEND OF 90° ± 1° FOR TWO-SIDED REFLECTORS.

11. 25 FEET OF HALF POST SPACING IS REQUIRED ON APPROACH AND DEPARTURE ENDS OF QUARTER POST SPACING.

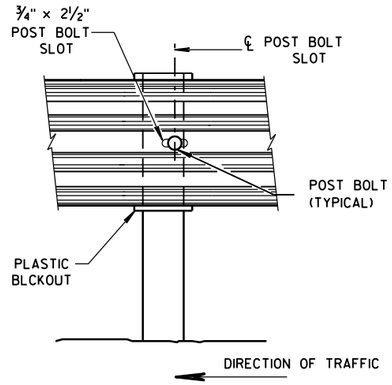
POST BOLTS ARE A 5/8" DIAMETER ASTM A307 GUARDRAIL BOLT. A POST BOLT REQUIRES 5/8" DIAMETER A563A DOUBLE RECESSED (DR) HEAVY HEX NUT AND 5/8" DIAMETER F844 FLAT WASHER. POST BOLTS MAY BE LONGER IF MULTIPLE BLOCKOUTS ARE BEING USED.

GUARD RAIL SPLICE BOLTS ARE A 5/8" DIAMETER ASTM A307 GUARDRAIL HEAD BOLT. A GUARDRAIL SPLICE BOLT REQUIRES 5/8" DIAMETER A563A DOUBLE RECESSED (DR) HEAVY HEX NUT.

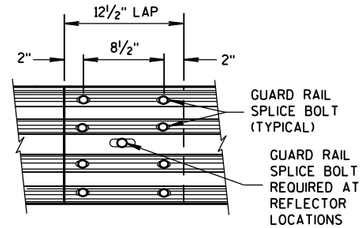


FRONT VIEW

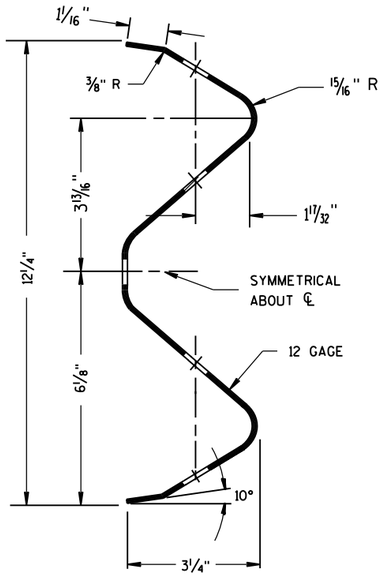
HALF POST SPACING (HS) AND HALF POST SPACING WITH LONGER POSTS (K)



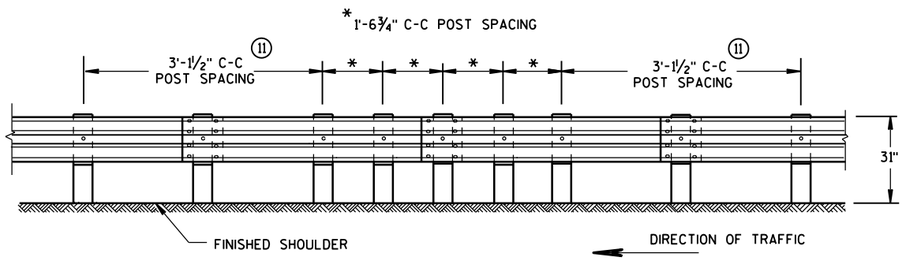
FRONT VIEW AT STEEL POST



FRONT VIEW
MID-SPAN BEAM SPLICE

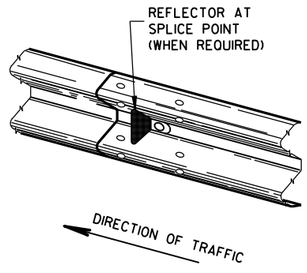


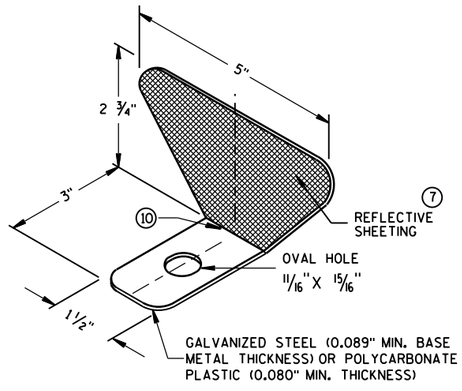
SECTION THRU W-BEAM RAIL



FRONT VIEW

QUARTER POST SPACING (QS)





ONE SIDED REFLECTOR DETAIL AND TYPICAL INSTALLATION (7)

REFLECTOR SPACING (8)

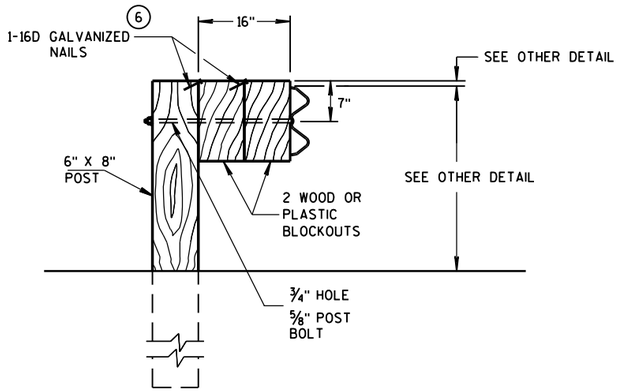
	BEAM GUARD LENGTH	REFLECTOR SPACING	NO. SURFACES REFLECTORIZED	MIN. NO. REFLECTORS
ONE WAY TRAFFIC	< 200' > 200'	50' C-C 100' C-C	1 1	3
TWO WAY TRAFFIC	< 200' > 200'	25' C-C 50' C-C	1 (9) 1	6
TWO WAY TRAFFIC	< 200' > 200'	50' C-C 100' C-C	2 2 (10)	3

MIDWEST GUARDRAIL SYSTEM
(MGS) GUARDRAIL

STATE OF WISCONSIN
DEPARTMENT OF TRANSPO

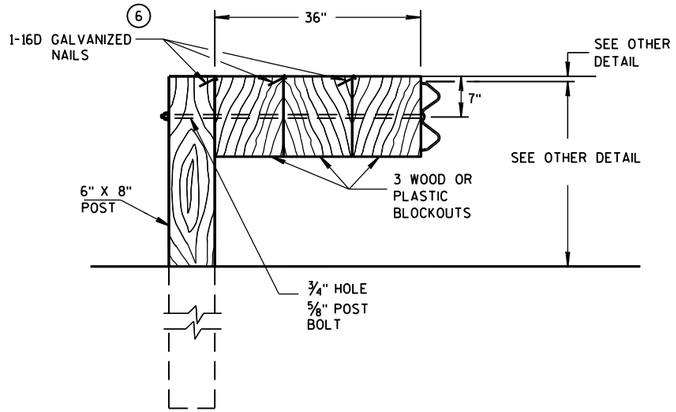
6

S.D.D. 14 B 42-4b



DETAIL FOR 16" BLOCKOUT DEPTH

IT IS ACCEPTABLE TO USE BLOCKOUTS UP TO 16" DEEP TO INCREASE THE POST OFFSET TO AVOID UNDERGROUND OBSTACLES. THERE IS NO LIMIT TO THE NUMBER OF POSTS THAT CAN HAVE ADDITIONAL BLOCKOUTS UP TO 16" DEEP.

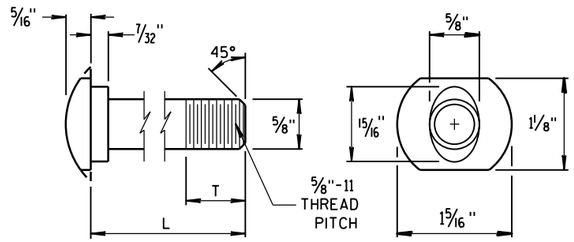


DETAIL FOR 36" BLOCKOUT DEPTH

NOTES: UNDER SPECIAL CIRCUMSTANCES, SUCH AS AVOIDING OBSTACLES THAT ARE NOT RELOCATED, IT IS ACCEPTABLE TO INSTALL ADDITIONAL BLOCKOUTS TO OBTAIN UP TO 36" DEPTH FOR ONE OR TWO POSTS IN A SECTION OF GUARDRAIL.

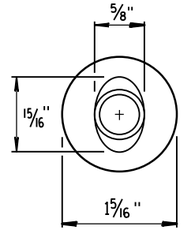
DO NOT USE 16" OR 36" BLOCKOUTS IF IT CAUSES THE POST TO BE DRIVEN BEYOND SHOULDER HINGE POINT OR CAUSES A FIXED OBJECT TO BE WITHIN THE DEFLECTION DISTANCE OF THE BARRIER.

NOTE: 1. ALL FILLETS SHALL HAVE A MINIMUM RADIUS OF 1/16".
2. IF THE BOLT EXTENDS MORE THAN 1/4" FROM THE NUT THE BOLT SHOULD BE TRIMMED BACK.

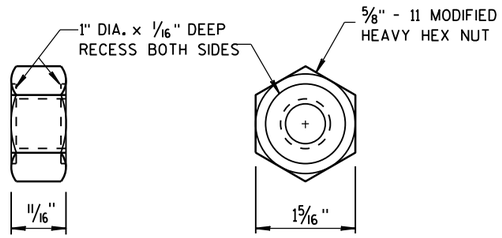


POST BOLT TABLE

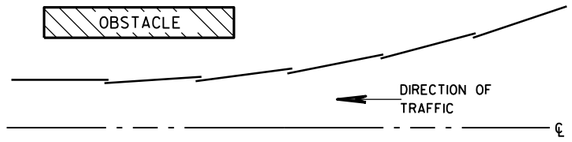
L	T (MIN.)
1 1/4"	1 1/8"
2"	1 3/4"
10"	4"
14"	4 1/16"
18"	4"
21"	4 1/16"
25"	4"



ALTERNATE BOLT HEAD

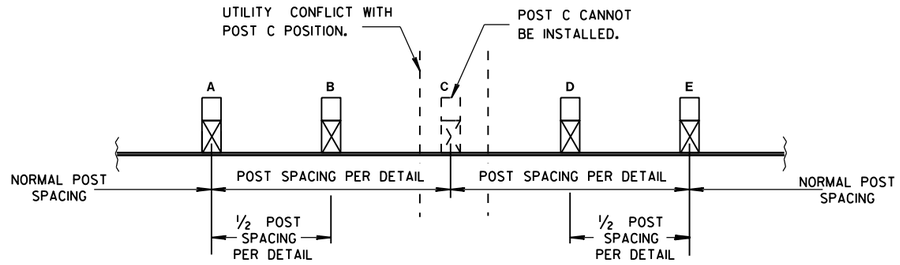


POST BOLT, SPLICE BOLT AND RECESS NUT

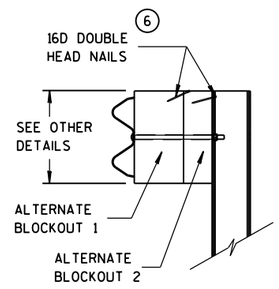


PLAN VIEW

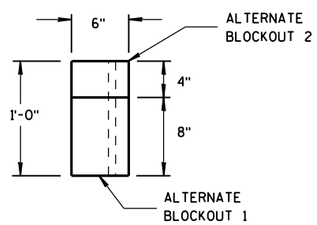
BEAM LAPPING DETAIL



POST DRIVING FOR CONTINUOUS UNDERGROUND OBSTRUCTION



SIDE VIEW



TOP VIEW

ALTERNATE WOOD BLOCKOUT DETAIL

MIDWEST GUARDRAIL SYSTEM (MGS) GUARDRAIL

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
June 2016 — DATE
/S/ Jerry H. Zogg — ROADWAY STANDARDS ENGINEER
FHWA

6
S.D.D. 14 B 42-4c

GENERAL NOTES

(A) THE SLOPE IN THE AREA BOUNDED BY THE GRADELINE, THE HINGE POINT LINE (HPL), AND THE CLEAR ZONE LIMITS (CZL) SHALL BE 4:1 OR FLATTER.

(B) AFTER FINAL ASSEMBLY, RECHECK CABLE TO BE SURE IT IS TAUT AND HAS NOT RELAXED.

(C) DIFFERENT MANUFACTURES REQUIRE DIFFERENT PERFORATED W-BEAM RAIL END PANELS. SEE MANUFACTURES INFORMATION.

(D) THE TOP OF THE STEEL TUBE ON POST 1 AND POST 2 SHALL NOT BE MORE THAN 3" ABOVE THE FINISH GROUND ELEVATION.

(F) ATTACH ALUMINUM SHEET TO E.A.T. HEAD USING 4 STAINLESS STEEL SELF-TAPPING SCREWS. ONE SCREW PER CORNER.

(G) ½" DIAMETER X 3" LONG LAG BOLT AND WASHER.

(H) HARDWARE VARIES BETWEEN DIFFERENT MANUFACTURES. SEE MANUFACTURE'S DRAWING FOR INFORMATION.

(I) DIMENSIONS MAY VARY. SEE MANUFACTURE'S INFORMATION.

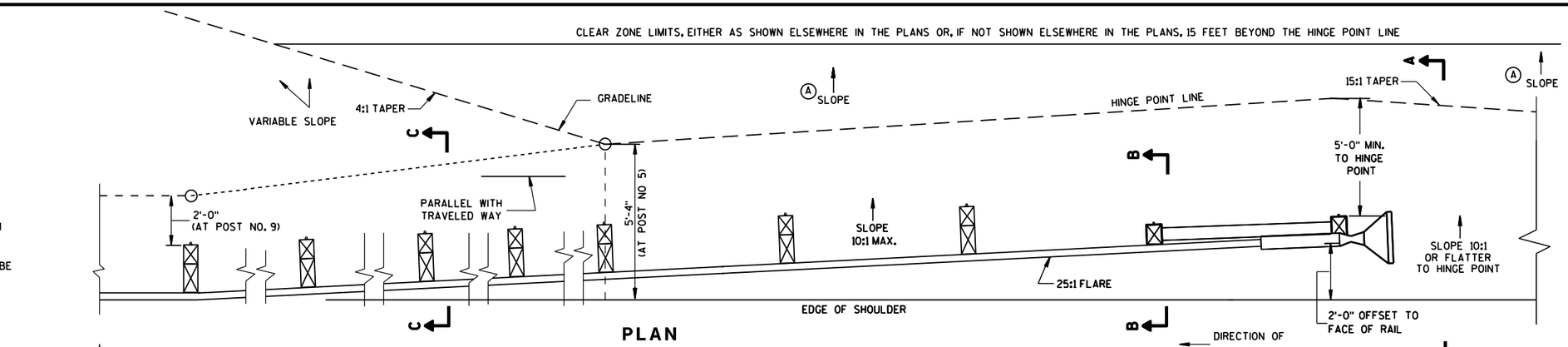
SEE SDD 14B42 FOR MORE INFORMATION.

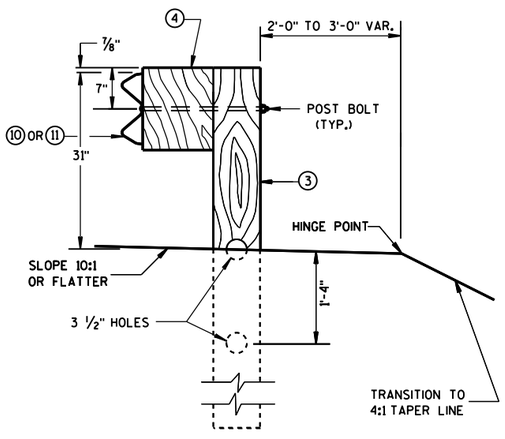
* DO NOT ATTACH BLOCKOUTS TO POSTS 1 AND 2.

DO NOT INSTALL REFLECTORS ON THE FIRST 50 FEET OF THE APPROACH END OF THE ENERGY ABSORBING TERMINAL.

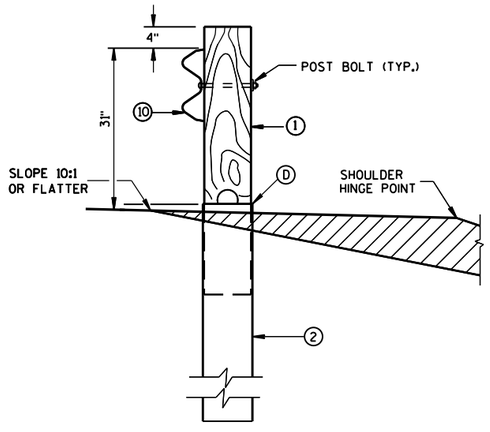
W-BEAM RAIL SPLICES ARE LOCATED AT POST NUMBER 3, AND BETWEEN POST 5 AND 6, BETWEEN POSTS 7 AND 8, AND MIDDLE OF THE SPAN AFTER POST 9.

THE CENTER OF THE UPPER 3½" DIAMETER HOLE ON POST NUMBER 3 THROUGH POST 9 IS TO BE FLUSH WITH THE GROUND LINE UP TO A MAXIMUM OF 2" ABOVE GROUND LINE.

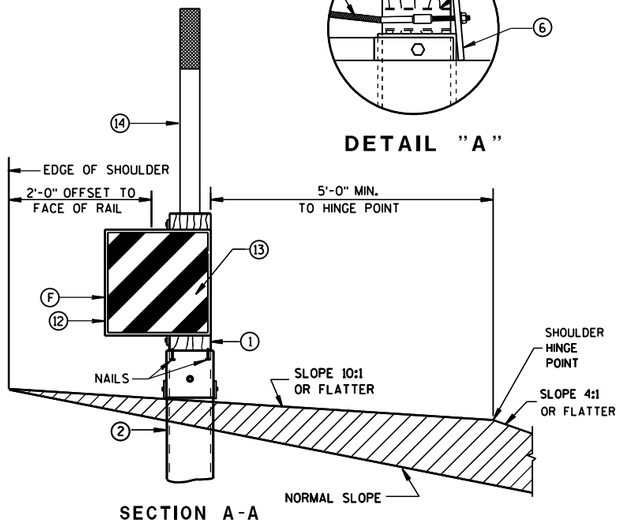




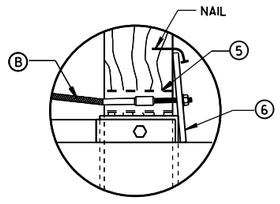
SECTION C-C
TYPICAL AT POST NOS. 3-9



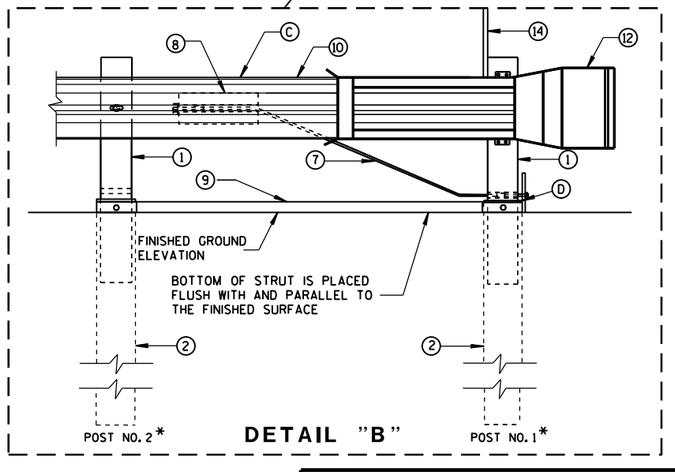
SECTION B-B
TYPICAL AT POST NO. 2*



SECTION A-A
TYPICAL AT POST NO. 1*



DETAIL "A"



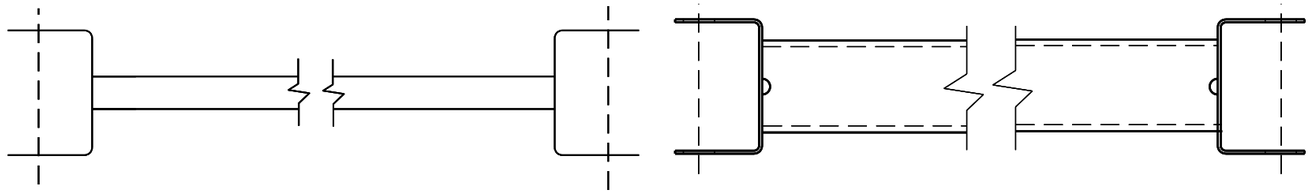
DETAIL "B"

MIDWEST GUARDRAIL SYSTEM
ENERGY ABSORBING TERMINAL (MGS)

STATE OF WISCONSIN
DEPARTMENT OF TRANSPO

S.D.D. 14 B 44-2a

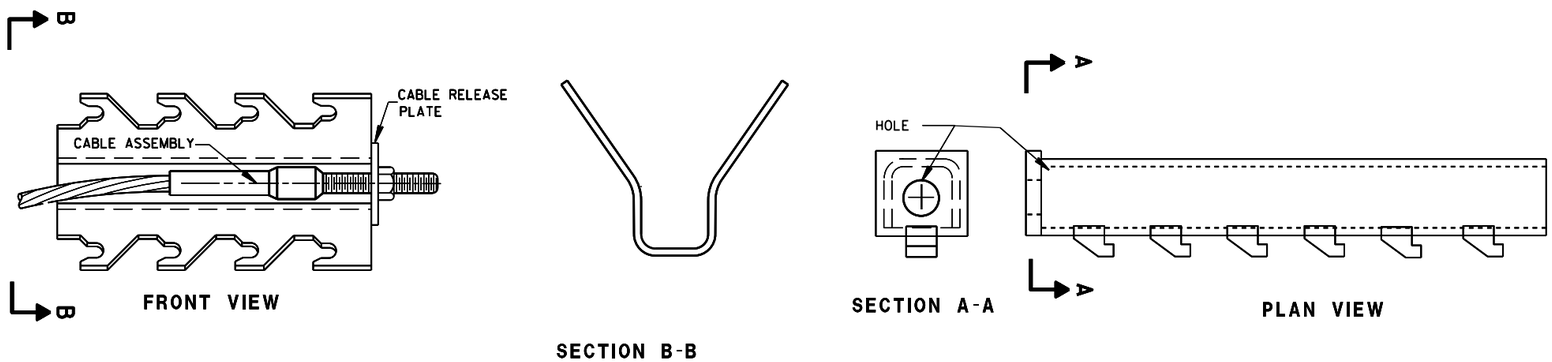
S.D.D. 14 B 44-2a



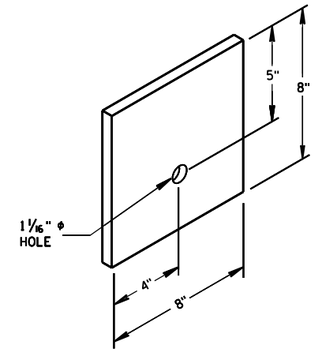
GENERIC GROUND STRUT (9) (H)

BILL OF MATERIALS

PART NO.	DESCRIPTION MATERIALS PROVIDED BY MGS EAT MANUFACTURER. SEE MANUFACTURER'S DETAILS FOR MORE INFORMATION.
(1)	WOOD BREAKAWAY POST
(2)	6" X 8" X 0.188", 6'-0" LONG FOUNDATION TUBE AT POSTS 1 AND 2
(3)	WOOD CRT
(4)	WOOD BLOCKOUT
(5)	PIPE SLEEVE
(6)	BEARING PLATE
(7)	BCT CABLE ASSEMBLY
(8)	ANCHOR CABLE BOX
(9)	GROUND STRUT
(10)	PERFORATED W-BEAM RAIL END PANEL, 12'-6" LONG.
(11)	STANDARD W-BEAM RAIL. MULTIPLE SECTIONS REQUIRED. SECTIONS VARY IN LENGTH.
(12)	END SECTION EAT
(13)	0.040" ALUMINUM SHEET WITH REFLECTIVE SHEETING TYPE F PER SECTION 637 OF THE STANDARD SPECIFICATIONS
(14)	EAT MARKER POST - YELLOW (SEE APPROVED PRODUCTS LIST)



GENERIC ANCHOR CABLE BOX (8) (H)



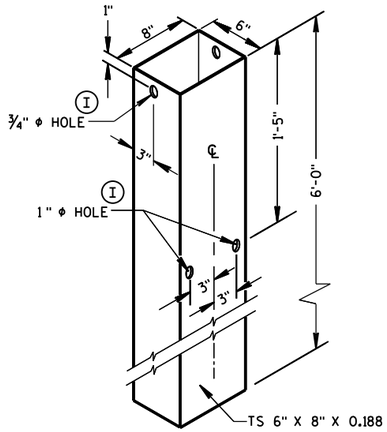
BEARING PLATE (6)

MIDWEST GUARDRAIL SYSTEM
ENERGY ABSORBING TERMINAL
(MGS)

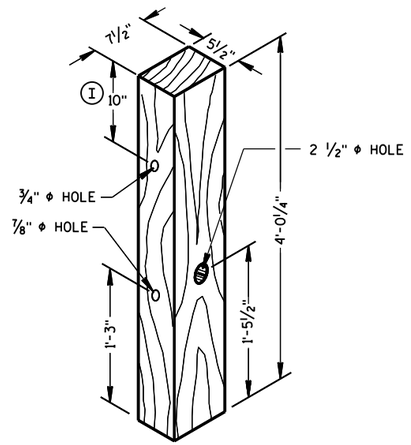
STATE OF WISCONSIN
DEPARTMENT OF TRANSPOI

6

S.D.D. 14 B 44-2b

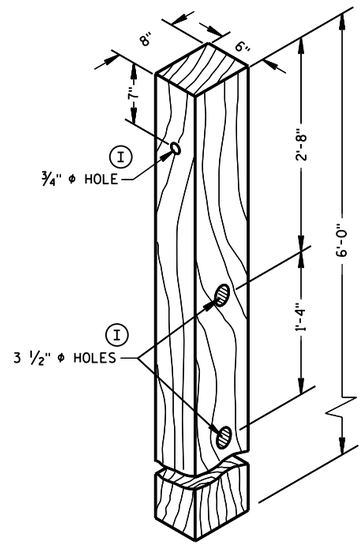


FOUNDATION TUBE (2)



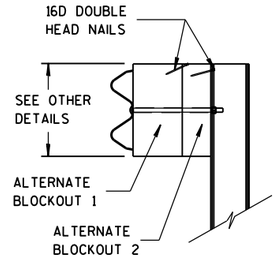
POSTS NUMBER 1 AND 2

WOOD BREAKAWAY POST (1)

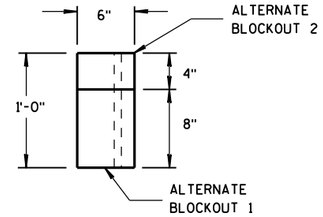


POSTS NUMBER 3-9

WOOD CRT POST (3)

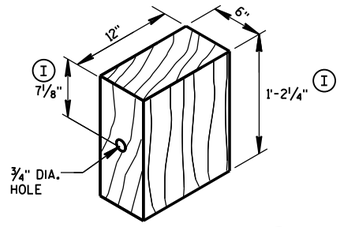


SIDE VIEW



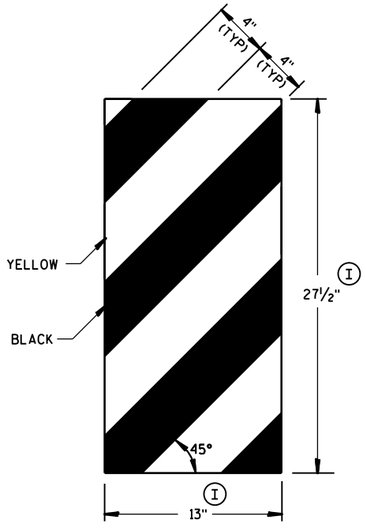
TOP VIEW

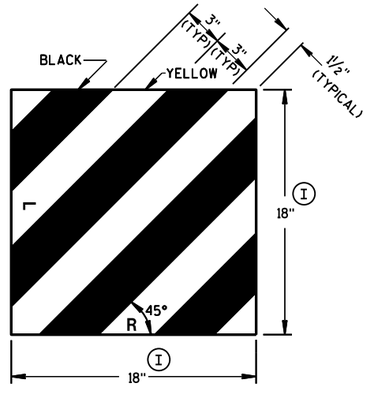
ALTERNATE WOOD BLOCKOUT DETAIL



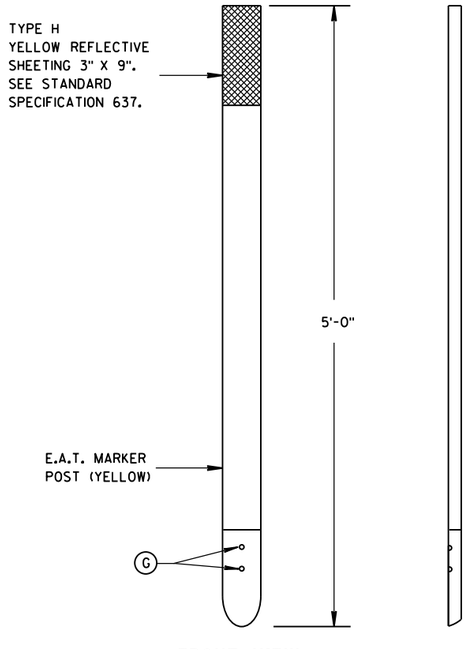
WOOD BLOCKOUT (4)

REQ'D. AT ALL POSTS EXCEPT POST NO'S 1 & 2





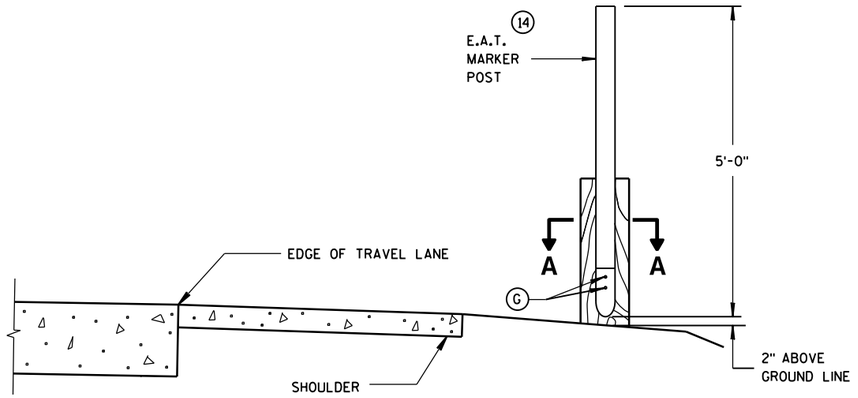
GENERIC REFLECTIVE SHEETING (13) (H)



FRONT VIEW

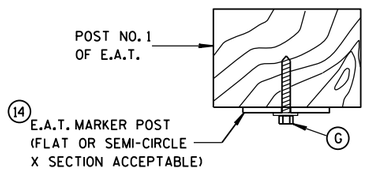
SIDE VIEW

E.A.T. MARKER POST (14)



TYPICAL INSTALLATION OF E.A.T. MARKER POST BACKSIDE OF POST NO. 1

(E.A.T. AND RAIL REMOVED FOR CLARITY)



SECTION A-A

MIDWEST GUARDRAIL SYSTEM ENERGY ABSORBING TERMINAL (MGS)

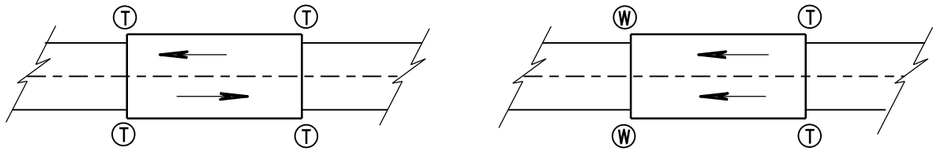
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
June 2014
DATE
/S/ Jerry H. Zogg
ROADWAY STANDARDS ENGINEER

FHWA

6

S.D.D. 14 B 44-2c



TWO WAY TRAFFIC

ONE WAY TRAFFIC

Ⓣ THRIE BEAM CONNECTION

Ⓦ W-BEAM CONNECTION WHEN REQUIRED

TYPICAL LOCATIONS OF THRIE BEAM AND W-BEAM CONNECTIONS TO BRIDGE

GENERAL NOTES

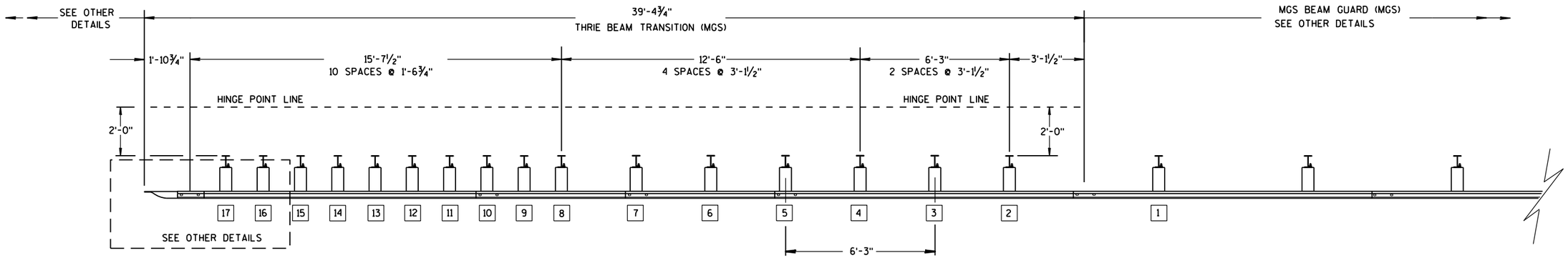
IF ROCK IS ENCOUNTERED, REMOVE ROCK TO FULL DEPTH OF POST PLUS 2½", AND 12" DIAMETER AROUND POST. SEE 14B42 FOR MORE DETAILS.

TRANSITION USES STEEL POSTS ONLY.

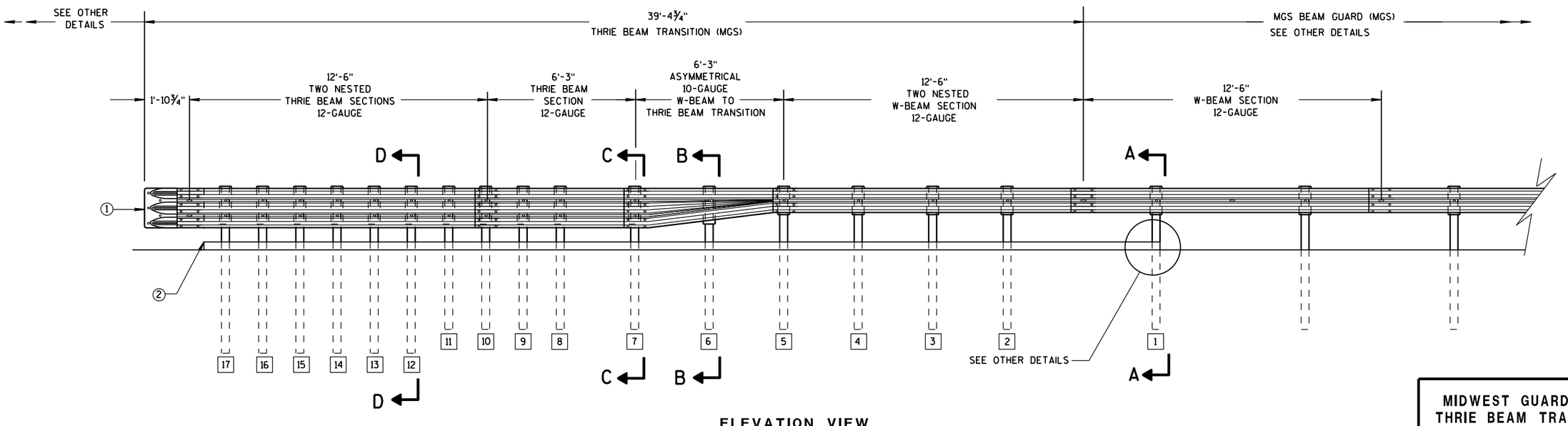
SEE STANDARD DETAIL DRAWING 14 B 42 FOR MORE INFORMATION.

① BRIDGE RAILING TYPE "W" DOES NOT REQUIRE A TERMINAL CONNECTOR.

② OPTIONAL CURB AND GUTTER OR DRAINAGE FEATURE SEE PLAN FOR INFORMATION.



PLAN VIEW



ELEVATION VIEW

MIDWEST GUARDRAIL SYSTEM THRIE BEAM TRANSITION

MIDWEST GUARDRAIL SYSTEM
THRIE BEAM TRANSITION (MGS)

STATE OF WISCONSIN
DEPARTMENT OF TRANSPOI

6

S.D.D. 14 B 45-4a

6

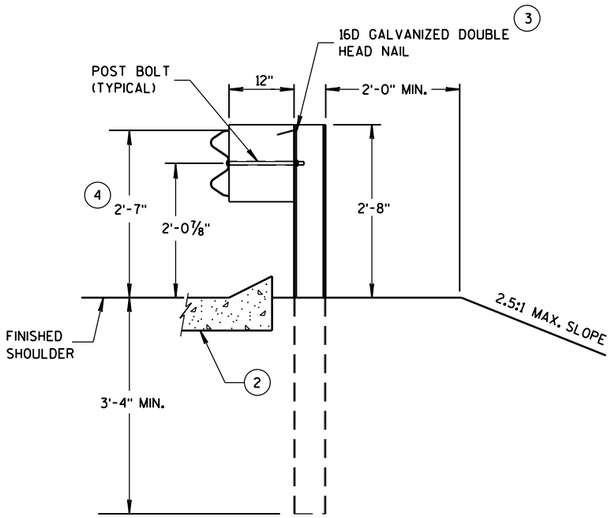
S.D.D. 14 B 45-4a

GENERAL NOTES

(2) OPTIONAL CURB AND GUTTER OR DRAINAGE_FEATURE SEE PLAN FOR INFORMATION.

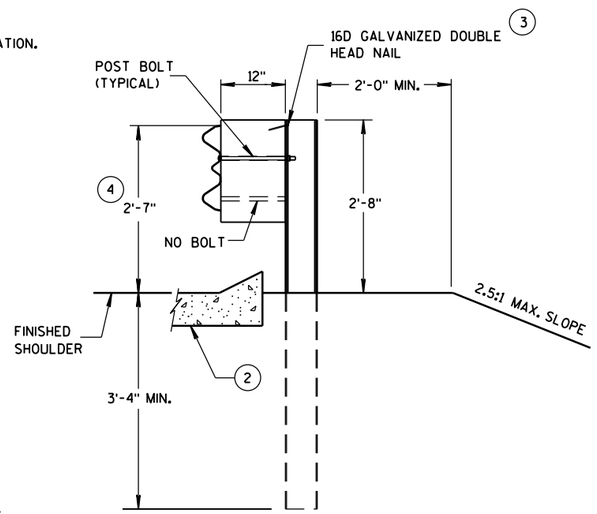
(3) WHEN USING STEEL POSTS AND WOOD BLOCKOUTS INSTALL FOUR 10D GALVANIZED NAILS. INSTALL NAILS AT THE BACK CORNERS OF THE BLOCK AND BEND THE NAILS OVER THE FLANGE OF THE STEEL POST.

(4) TOLERANCE FOR TOP OF W-BEAM RAIL IS ± 1".



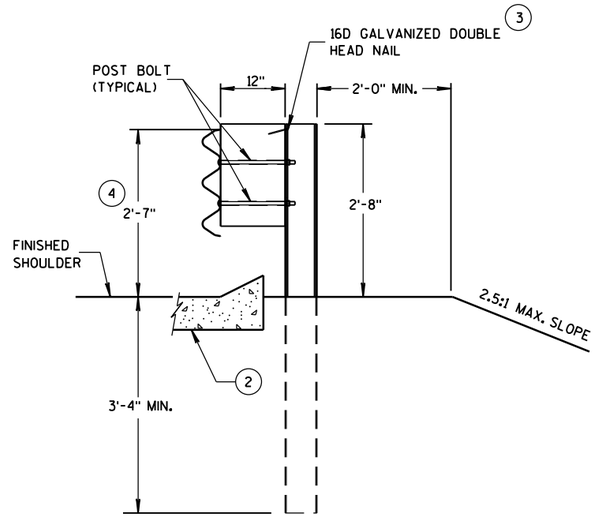
SECTION A-A

POSTS 1-5



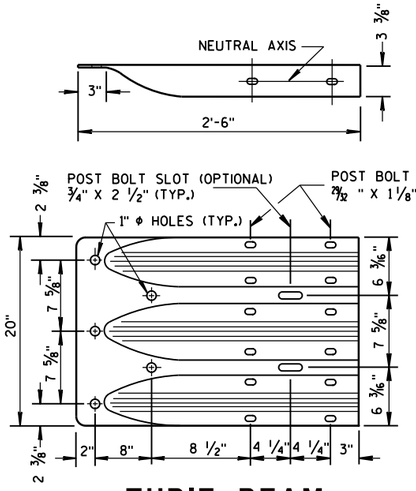
SECTION B-B

POST 6



SECTION C-C

POSTS 7-11



THRIE BEAM TERMINAL CONNECTOR

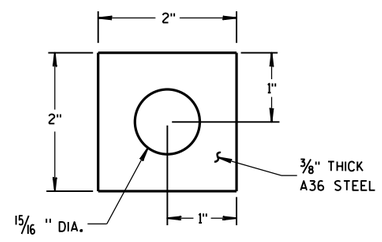
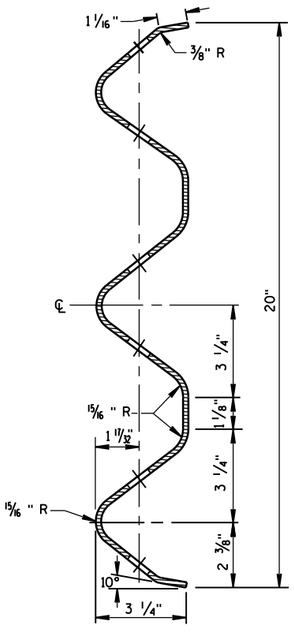
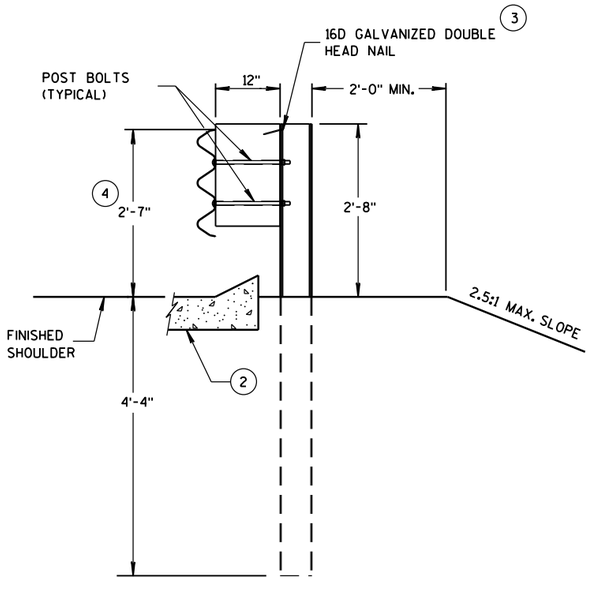


PLATE WASHER DETAIL

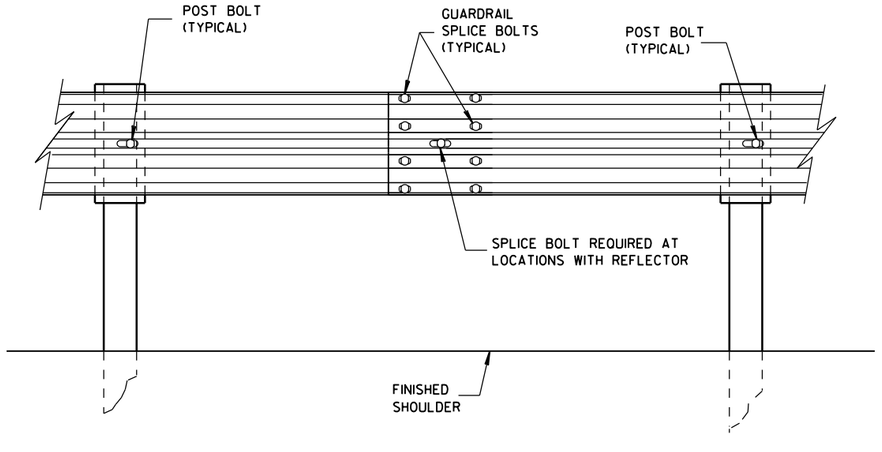


SECTION THRU THRIE BEAM RAIL ELEMENT



SECTION D-D

POSTS 12-17



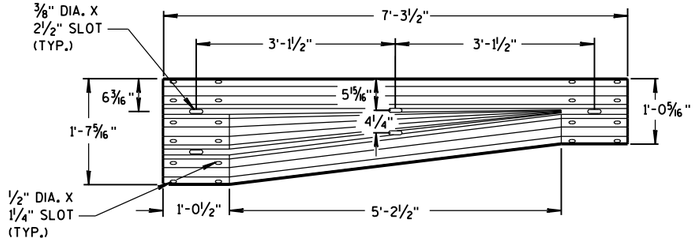
SPLICE DETAIL

MIDWEST GUARDRAIL SYSTEM
THRIE BEAM TRANSITION (MGS)

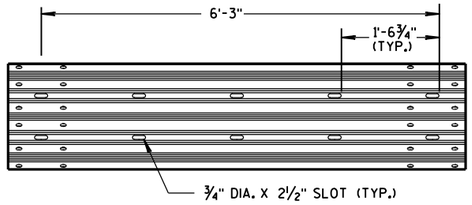
STATE OF WISCONSIN
DEPARTMENT OF TRANSPOR

6

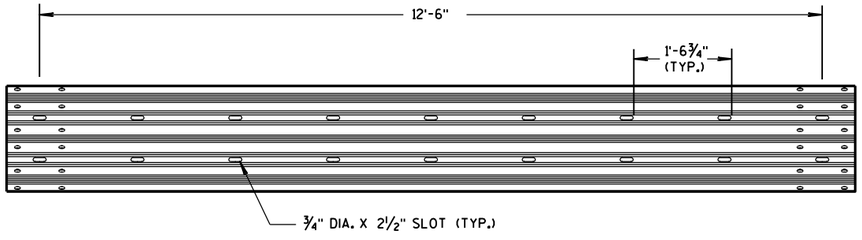
S.D.D. 14 B 45-4b



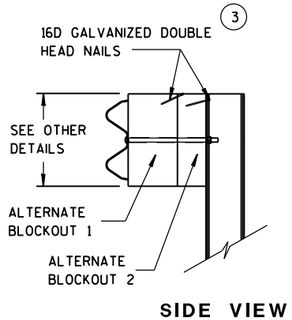
W-BEAM TO THRIE BEAM TRANSITION SECTION



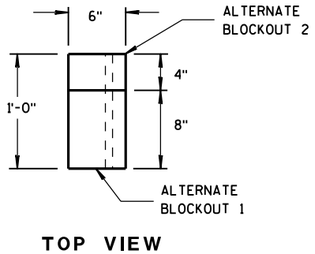
6'-3" THRIE BEAM SECTION



12'-6" THRIE BEAM SECTION

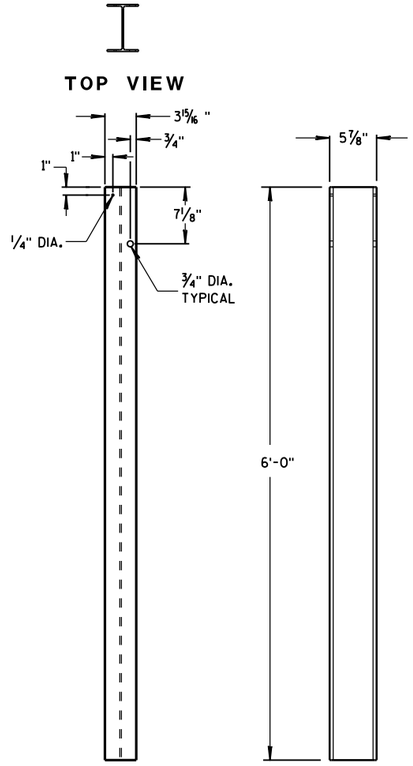


SIDE VIEW



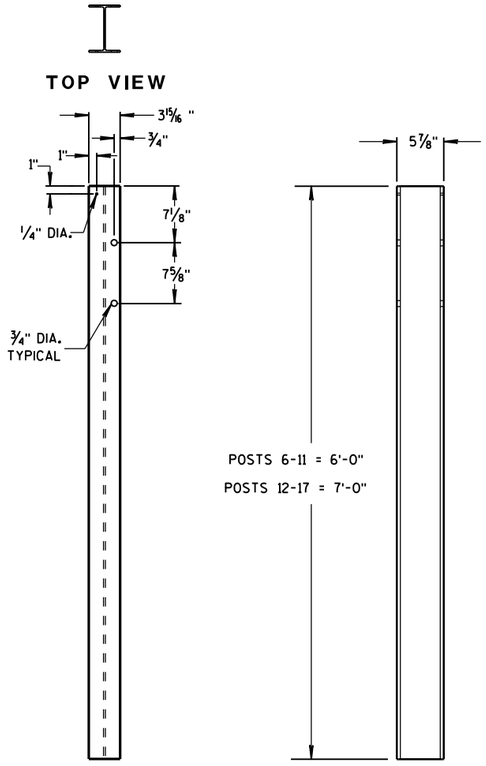
TOP VIEW

ALTERNATE WOOD BLOCKOUT DETAIL



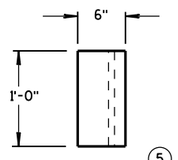
FRONT VIEW SIDE VIEW

STEEL POSTS 1-5

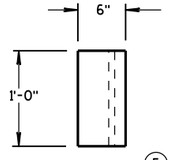


FRONT VIEW SIDE VIEW

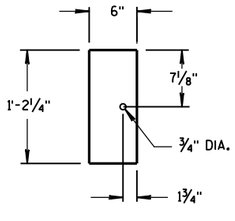
STEEL POSTS 6-17



TOP VIEW (5)

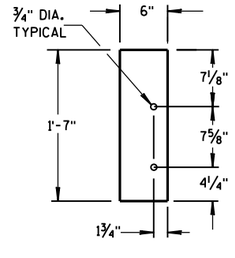


TOP VIEW (5)



FRONT VIEW

BLOCKOUT POSTS 1-5



FRONT VIEW

BLOCKOUT POSTS 6-17

GENERAL NOTES

STEEL POSTS ARE W6X9 OR W6X8.5.

BOLT HOLES FOR POST ARE ON FRONT AND OF SIDE OF POST.

(3) WHEN USING STEEL POSTS AND WOOD BLOCKOUTS INSTALL FOUR 16D GALVANIZED NAILS. INSTALL NAILS AT THE BACK CORNERS OF THE BLOCK AND BEND THE NAILS OVER THE FLANGE OF THE STEEL POST.

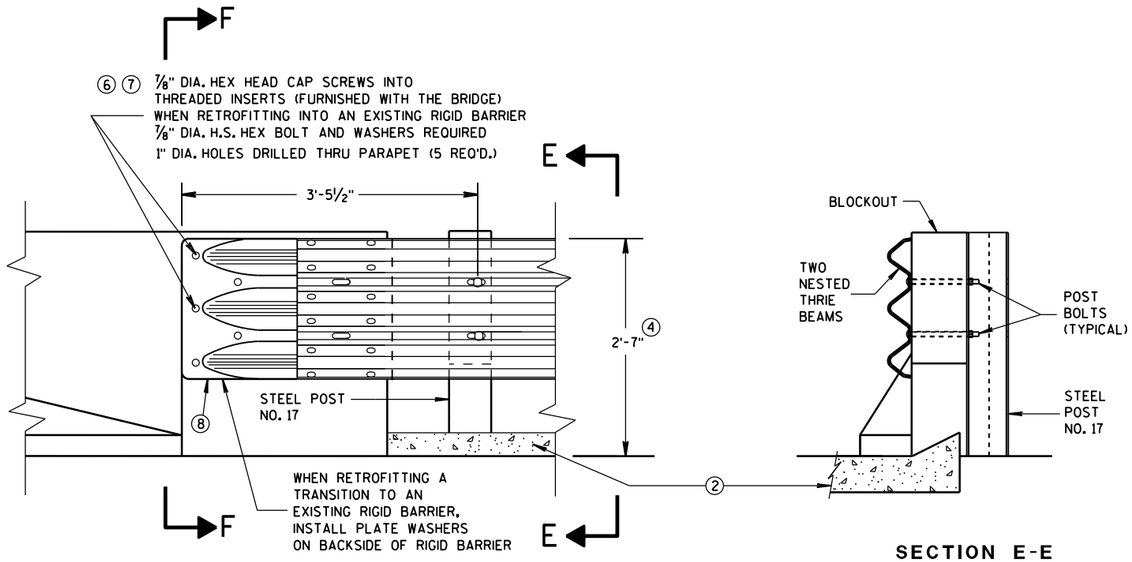
(5) WOOD BLOCKS MAY BE CONSTRUCTED OUT OF 2 WOOD BLOCKS. SEE ALTERNATE WOOD BLOCK DETAIL.

MIDWEST GUARDRAIL SYSTEM
THRIE BEAM TRANSITION (MGS)

STATE OF WISCONSIN
DEPARTMENT OF TRANSPOR

6

S.D.D. 14 B 45-4c



FRONT VIEW

SECTION E-E

THRIE BEAM CONNECTION TO BRIDGE PARAPET WITH SQUARE ENDS

GENERAL NOTES

THESE ARE TYPICAL CONNECTION DETAILS. ADJUST THE POSTION OF CONNECTIONS TO EXISTING BRIDGES TO FIT THE ACTUAL BRIDGE AND SITE DIMENSIONS.

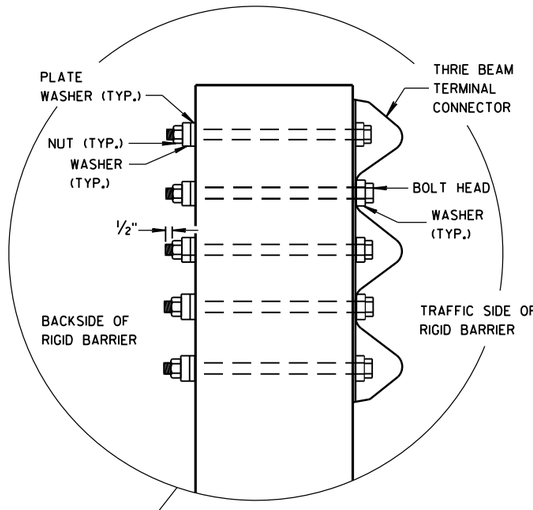
② OPTIONAL CURB AND GUTTER OR DRAINAGE FEATURE SEE PLAN FOR INFORMATION.

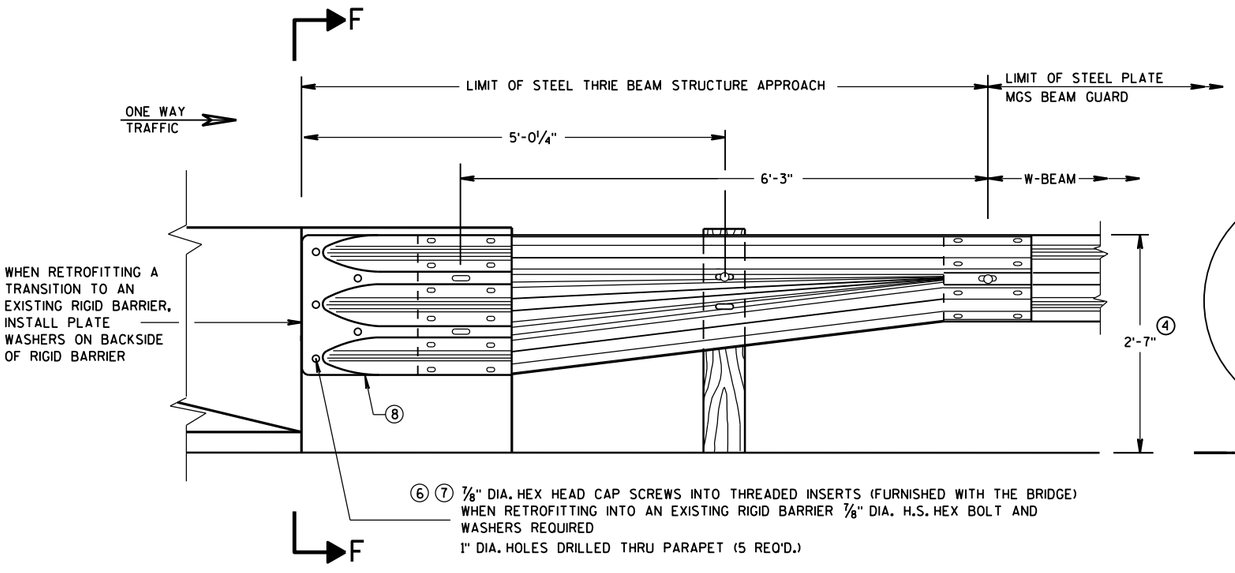
④ TOLERANCE FOR TOP OF BEAM IS ± 1".

⑥ DRILLING BOLT HOLES THROUGH THE PARAPET, BOLTS, NUTS, WASHERS AND REPAIRING DAMAGED CONCRETE ARE INCIDENTAL TO THE CONTRACT.

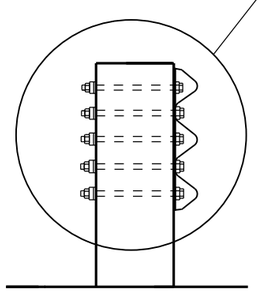
⑦ BOLTS MAY BE A325 BOLTS OR A449 BOLTS. BOLT LENGTH AND THREADING LENGTH ARE TO ALLOW FOR A TIGHT CONNECTION BETWEEN RIGID BARRIER AND THRIE BEAM CONNECTION PLATE. CONTRACTOR IS TO FIELD VERIFY BOLT LENGTH AND THREAD LENGTH. ONE ROUND WASHER REQUIRED BETWEEN BOLT HEAD AND THRIE BEAM CONNECTOR PLATE. BOLTS THAT EXTEND THROUGH THE PARAPET AND OUT THE BACK FACE REQUIRE A HARDENED ROUND STEEL WASHER THAT IS 2" O.D. X 5/8" THICK AND ONE PLATE WASHER. REPAIR ANY DAMAGED CONCRETE FROM BOLT INSTALLATION.

⑧ 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".

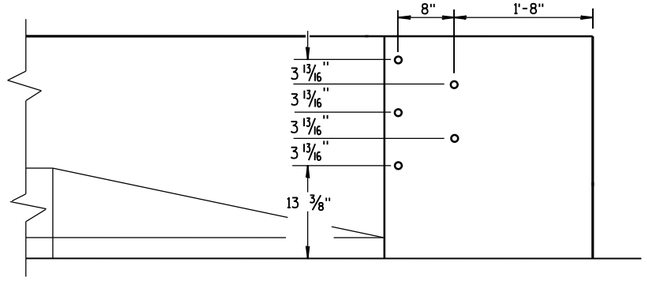




FRONT VIEW



SECTION F-F



DRILL HOLE LOCATION

W BEAM TRANSITION AND CONNECTION TO BRIDGE PARAPETS WITH SQUARE ENDS

(USE ONLY ON THE TRAFFIC EXIT END OF ONE WAY BRIDGES)

MIDWEST GUARDRAIL SYSTEM
THRIE BEAM TRANSITION (MGS)

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
June, 2015
DATE
FHWA

/S/ Jerry H. Zogg
ROADWAY STANDARDS DEVELOPMENT ENGINEER

NT

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S.D.D. 14 B 45-4d

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GENERAL NOTES

THESE ARE TYPICAL CONNECTION DETAILS. ADJUST THE POSTION OF CONNECTIONS TO EXISTING BRIDGES TO FIT THE ACTUAL BRIDGE AND SITE DIMENSIONS.

(2) OPTIONAL CURB AND GUTTER OR DRAINAGE FEATURE SEE PLAN FOR INFORMATION.

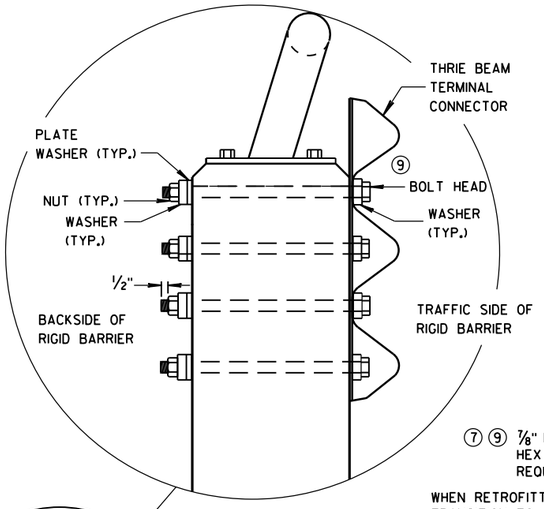
(4) TOLERANCE FOR TOP OF BEAM IS ± 1".

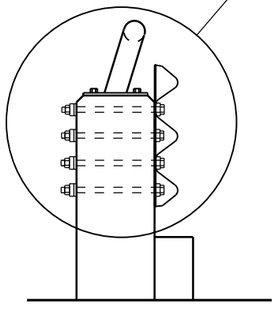
(6) DRILLING BOLT HOLES THROUGH THE PARAPET, BOLTS, NUTS, WASHERS AND REPAIRING DAMAGED CONCRETE ARE INCIDENTAL TO THE CONTRACT.

(7) BOLTS MAY BE A325 BOLTS OR A449 BOLTS. BOLT LENGTH AND THREADING LENGTH ARE TO ALLOW FOR A TIGHT CONNECTION BETWEEN RIGID BARRIER AND THRIE BEAM CONNECTION PLATE. CONTRACTOR IS TO FIELD VERIFY BOLT LENGTH AND THREAD LENGTH. ONE ROUND WASHER REQUIRED BETWEEN BOLT HEAD AND THRIE BEAM CONNECTOR PLATE. BOLTS THAT EXTEND THROUGH THE PARAPET AND OUT THE BACK FACE REQUIRE A HARDENED ROUND STEEL WASHER THAT IS 2" O.D. X 5/8" THICK AND ONE PLATE WASHER. REPAIR ANY DAMAGED CONCRETE FROM BOLT INSTALLATION.

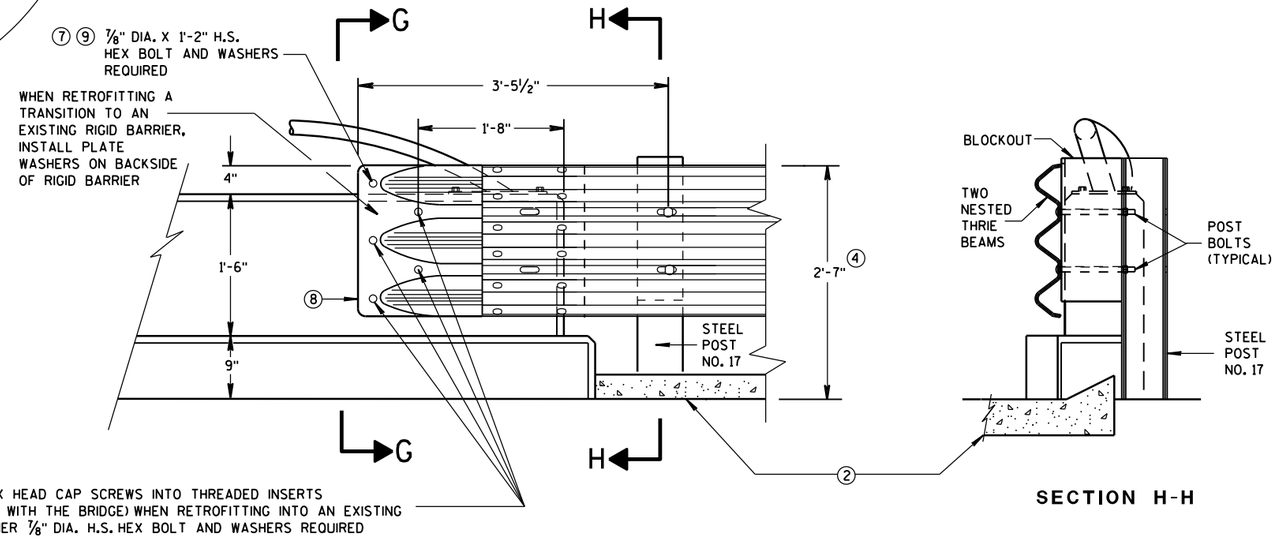
(8) THE RECESS FOR A W-BEAM CONNECTION, WHICH EXISTS ON SOME PARAPETS OF THIS TYPE, SHALL BE FILLED WITH A TREATED TIMBER BLOCKOUT. BLOCKOUT SIZE IS 1'-6" X 2'-0" X 3 1/2".

(9) BOLT, NUT AND WASHERS NOT REQUIRED FOR THIS LOCATION WHEN RETROFITTING AN EXISTING PAPAPET AND THE HOLE IS EITHER ABOVE PARAPET OR WITHIN 4 INCHES OF THE EDGE OF PARAPET.





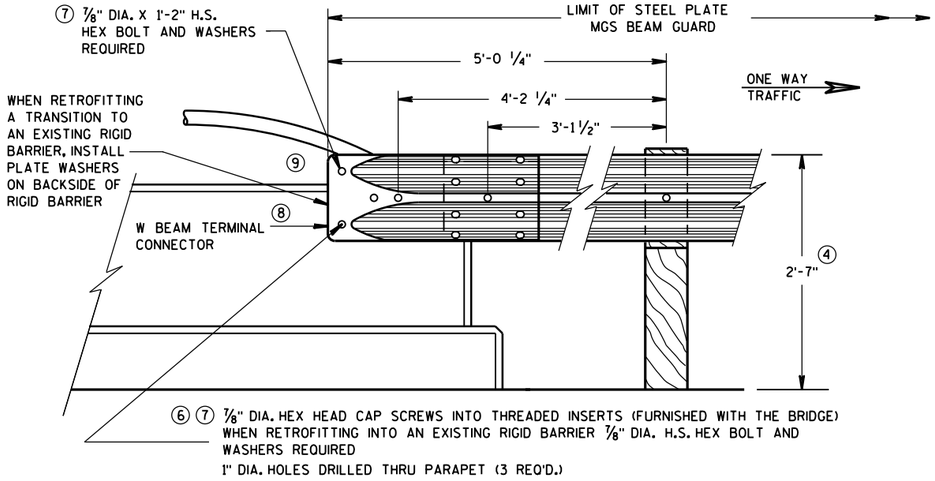
SECTION G-G



FRONT VIEW

SECTION H-H

THRIE BEAM CONNECTION TO VERTICAL FACED PARAPETS



FRONT VIEW

W BEAM CONNECTION TO VERTICAL FACE PARAPET

(USE ONLY ON THE TRAFFIC EXIT END OF ONE WAY BRIDGES)

MIDWEST GUARDRAIL SYSTEM
THRIE BEAM TRANSITION (MGS)

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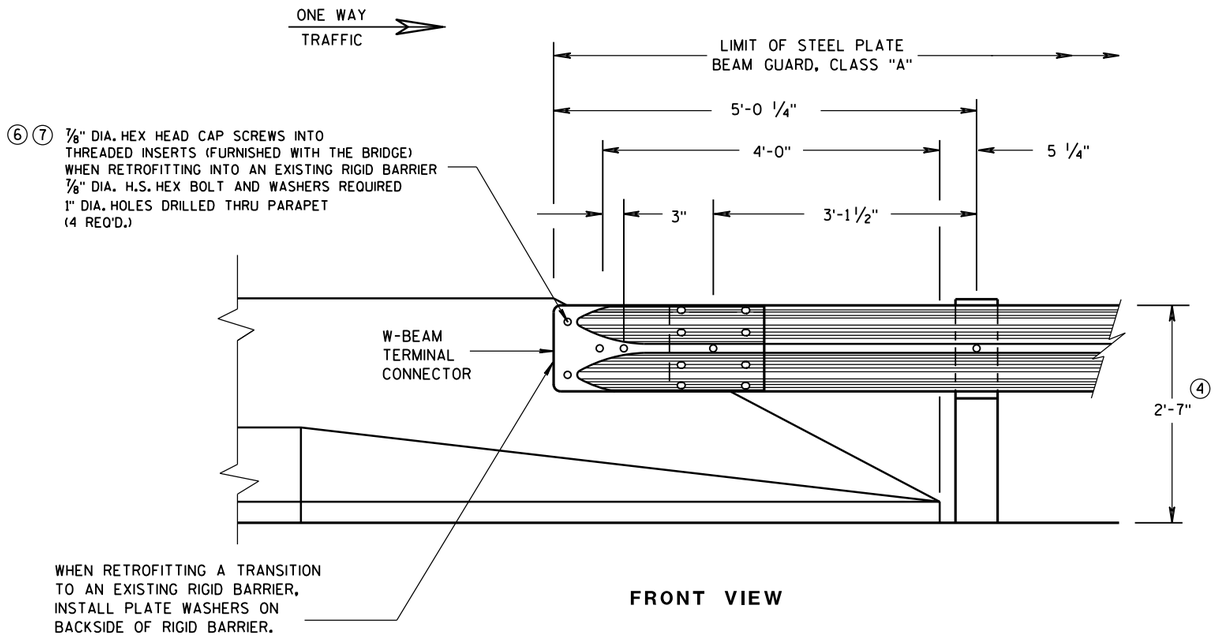

FRONT VIEW

W BEAM CONNECTION TO PARAPETS WITH SLOPED ENDS

(USE ONLY AT TRAFFIC EXIT END OF ONE WAY BRIDGE)

GENERAL NOTES

② OPTIONAL CURB AND GUTTER OR DRAINAGE FEATURE SEE PLAN FOR INFORMATION.

④ TOLERANCE FOR TOP OF BEAM IS ± 1".

⑥ DRILLING BOLT HOLES THROUGH THE PARAPET, BOLTS, NUTS, WASHERS AND REPAIRING DAMAGED CONCRETE ARE INCIDENTAL TO THE CONTRACT.

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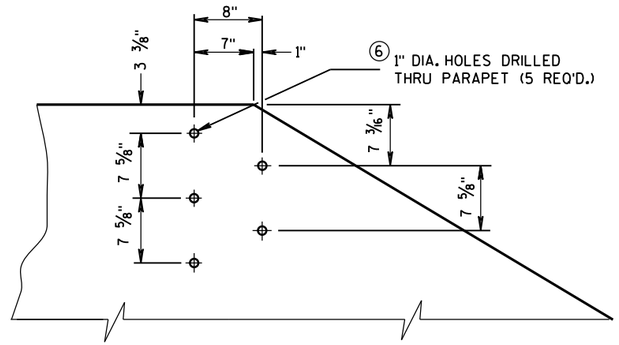
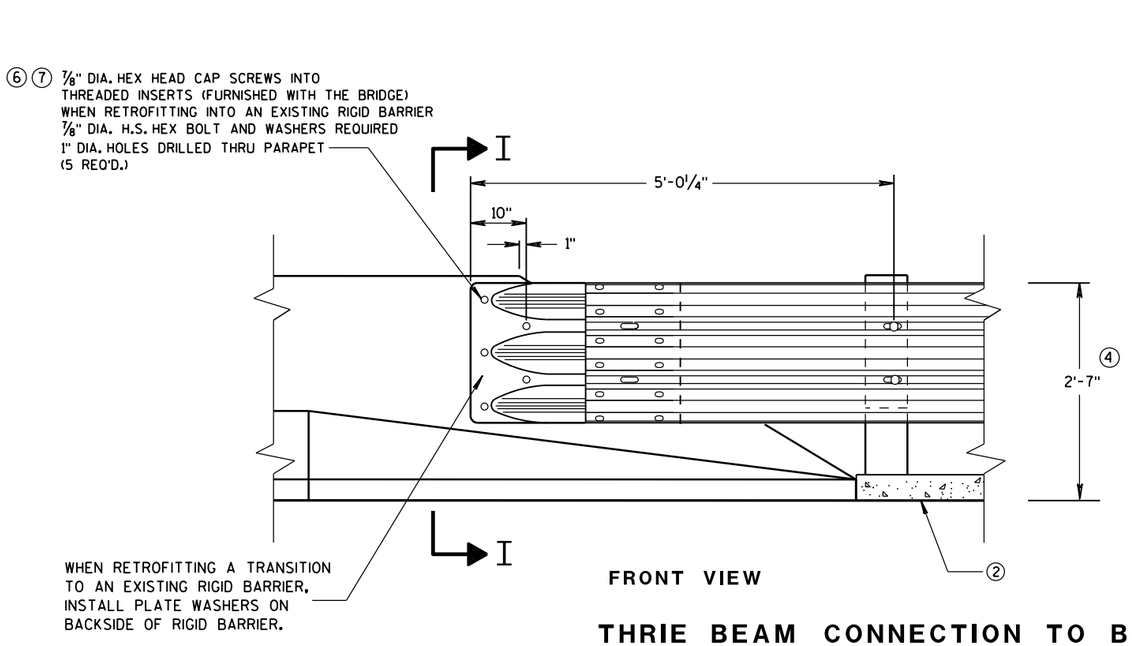
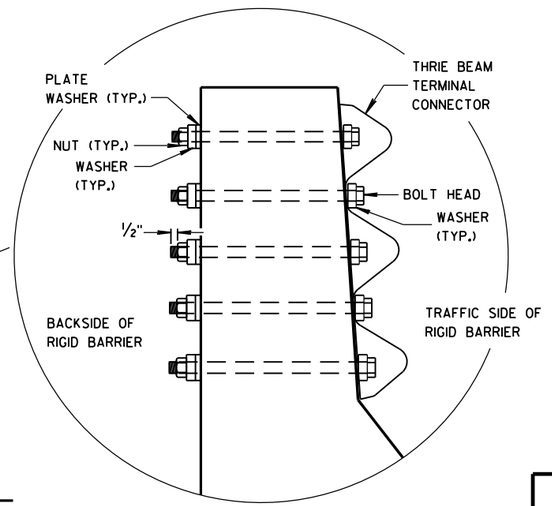


DRILL HOLE LOCATION AND PATTERN
FOR THRIE BEAM CONNECTION



FRONT VIEW

SECTION I-I



THRIE BEAM CONNECTION TO BRIDGE PARAPETS WITH SLOPED ENDS

MIDWEST GUARDRAIL SYSTEM
THRIE BEAM TRANSITION (MGS)

STATE OF WISCONSIN
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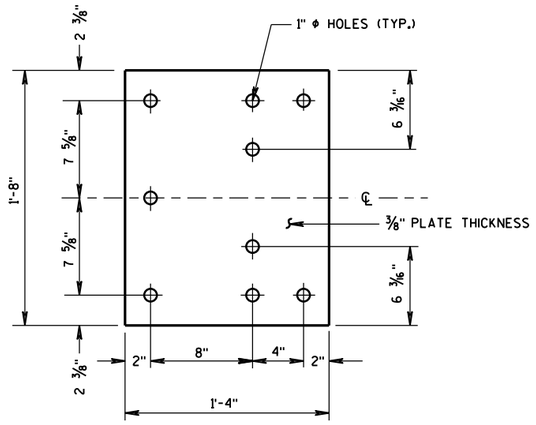
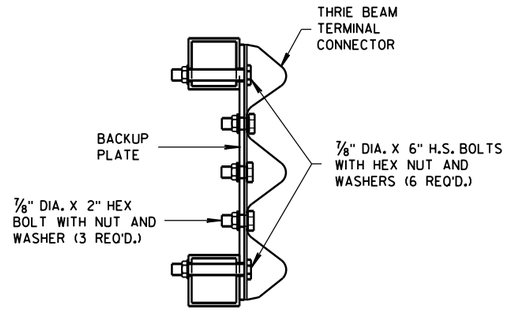
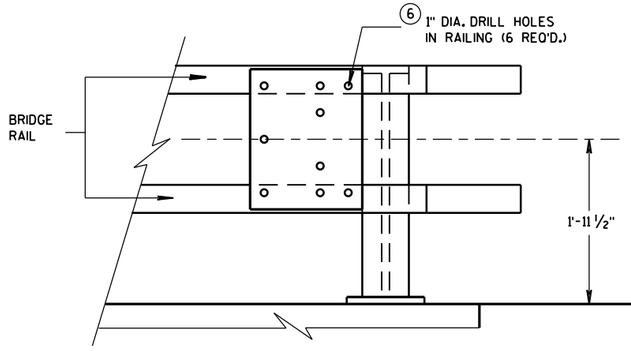


BACK-UP PLATE DETAIL



SECTION J-J

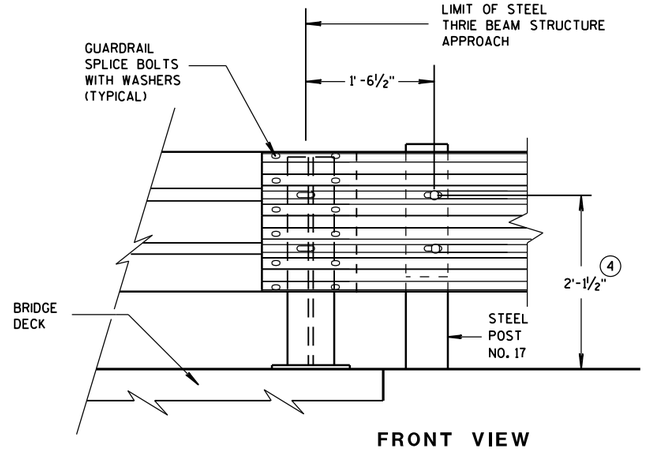


BACK-UP PLATE MOUNTING ONTO BRIDGE RAILING

GENERAL NOTES

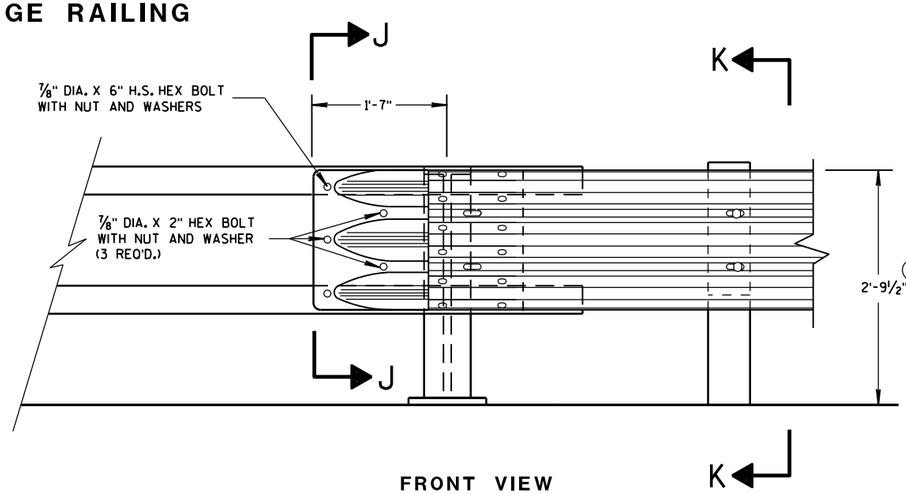
④ TOLERANCE FOR TOP OF BEAM IS ± 1".

⑥ DRILLING HOLES THROUGH THE PAPRPET, BOLTS, NUTS, WASHERS AND REPAIRING DAMAGED CONCRETE ARE INCIDENTAL TO THE CONTRACT.

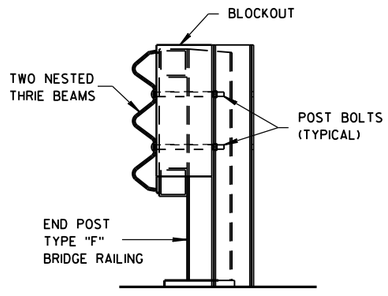


FRONT VIEW

THRIE BEAM CONNECTION TO STEEL RAILING TYPE "W"



FRONT VIEW



SECTION K-K

THRIE BEAM CONNECTION TO TUBULAR RAILING TYPE "F"

MIDWEST GUARDRAIL SYSTEM
THRIE BEAM TRANSITION (MGS)

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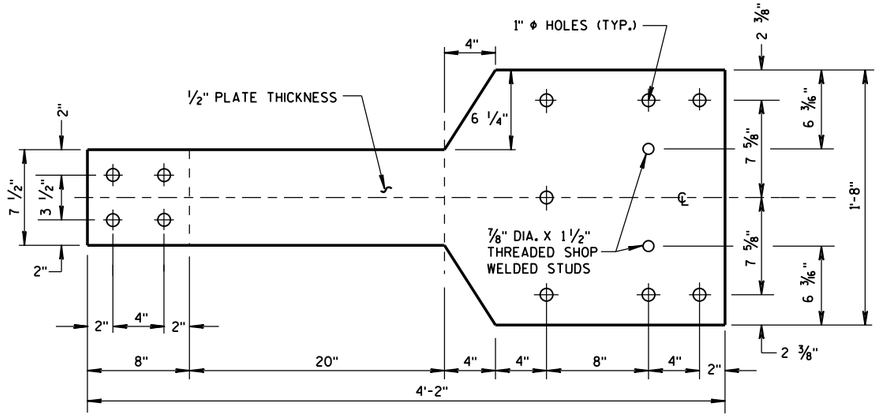
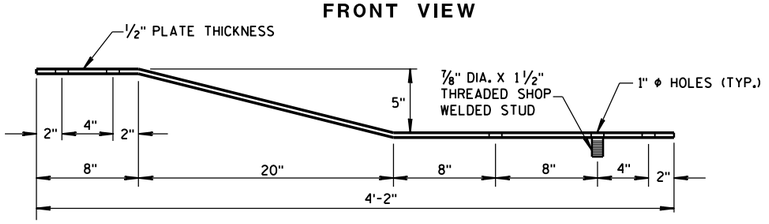
GENERAL NOTES

(4) TOLERANCE FOR TOP OF W-BEAM RAIL IS ± 1".

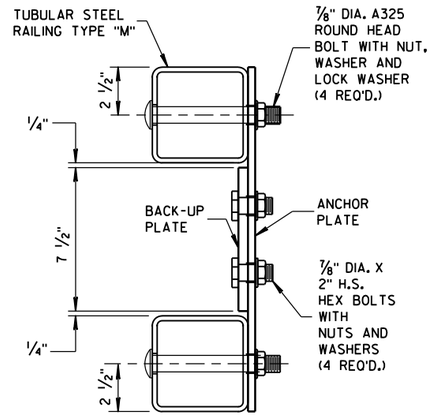


FRONT VIEW

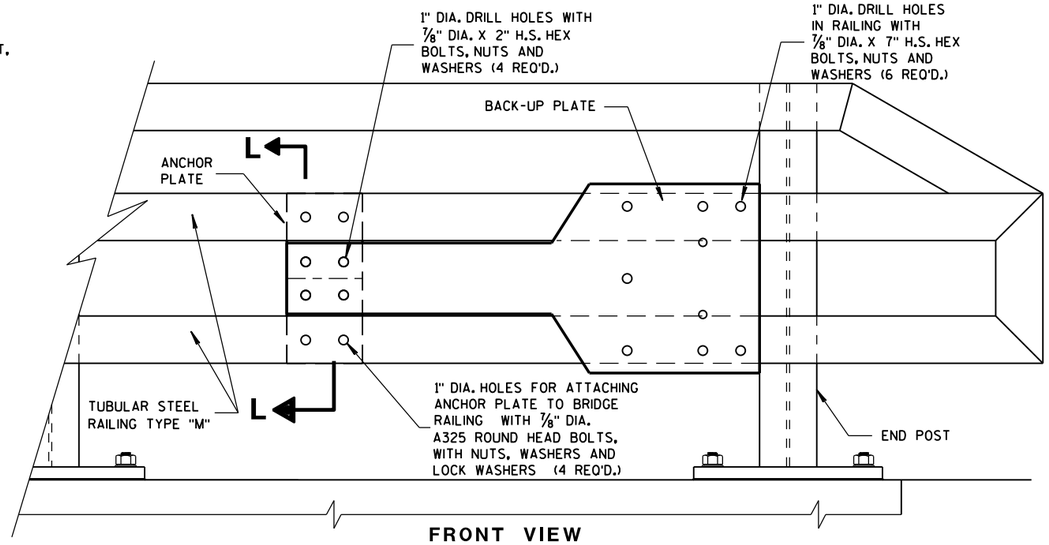


PLAN VIEW

BACK-UP PLATE DETAIL, TYPE "M"

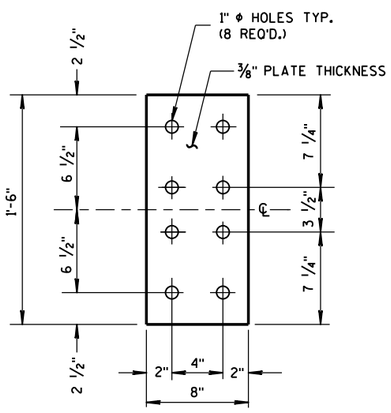


SECTION L-L



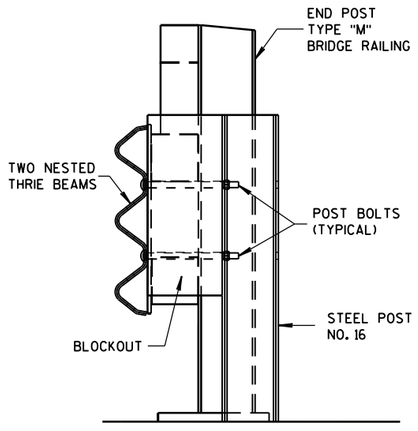
FRONT VIEW

ANCHOR AND BACK-UP PLATE MOUNTING TO BRIDGE RAILING, TYPE "M"

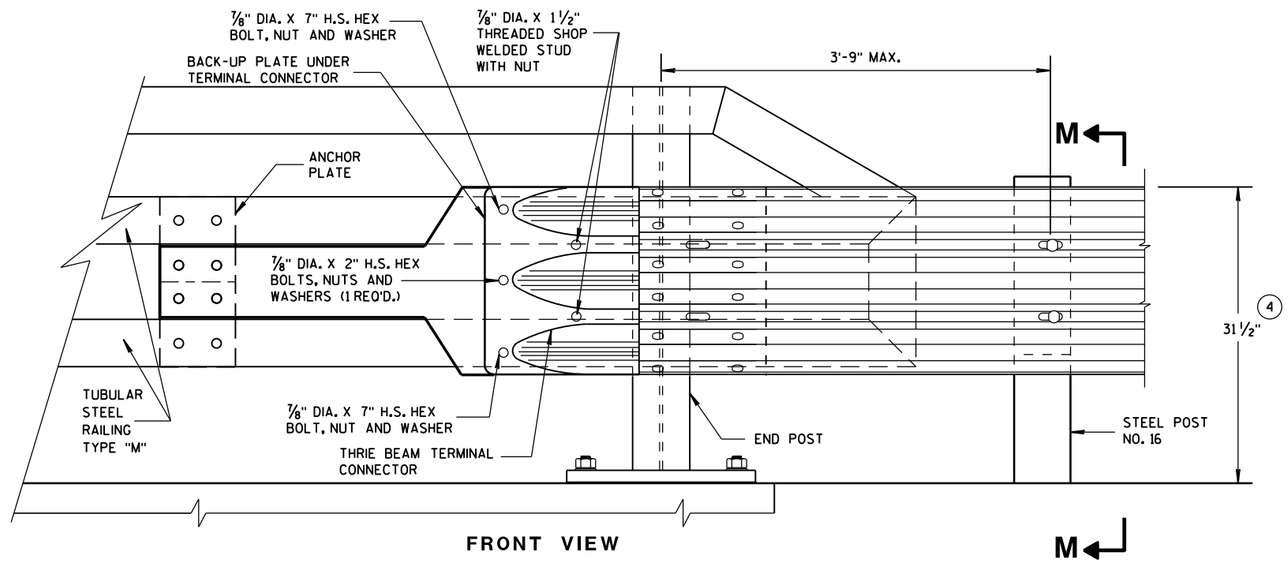


FRONT VIEW

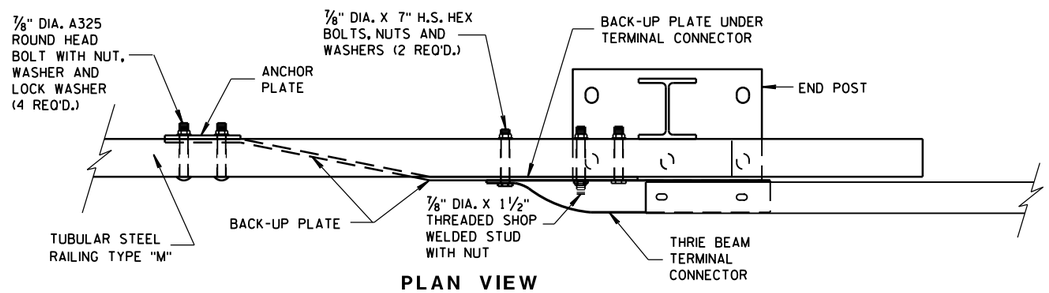
ANCHOR PLATE DETAIL, TYPE "M"



SECTION M-M



FRONT VIEW



PLAN VIEW

THRIE BEAM CONNECTION TO TUBULAR RAILING, TYPE "M"

MIDWEST GUARDRAIL SYSTEM THRIE BEAM TRANSITION (MGS)

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

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June, 2015 — DATE
/S/ Jerry H. Zogg — ROADWAY STANDARDS DEVELOPMENT ENGINEER
FHWA

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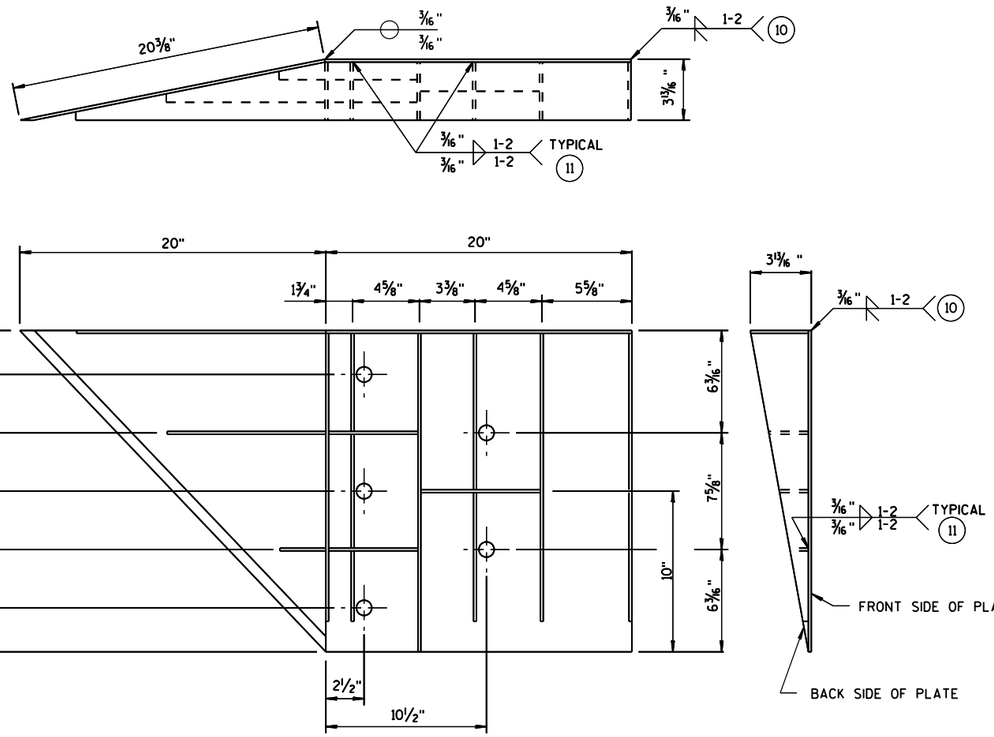

WELDING INSTRUCTION

(VIEWED FROM BACK SIDE OF PLATE)

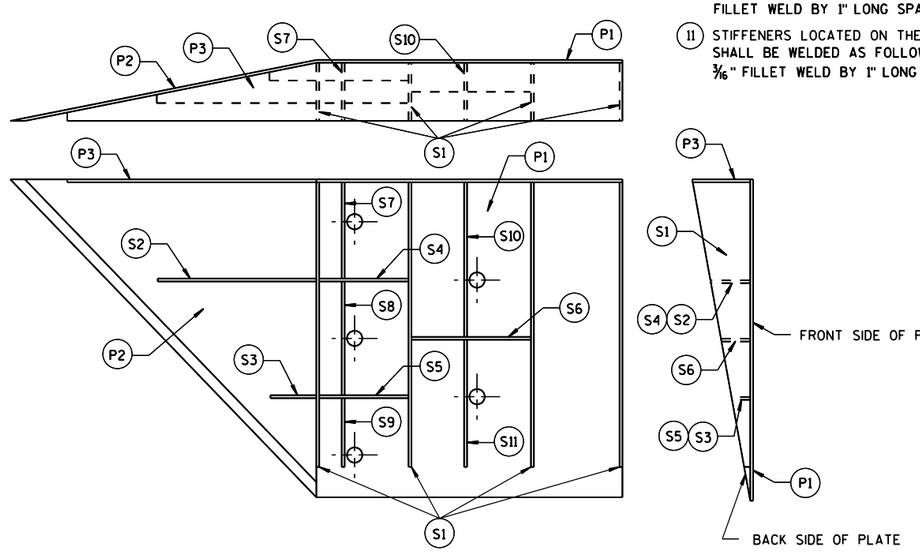

PLATE AND STIFFENER IDENTIFICATION

(VIEWED FROM BACK SIDE OF PLATE)

GENERAL NOTES

COVER PLATE PANELS ARE 3/16" THICK.

ALL STIFFENERS ARE 1/4" THICK.

CONNECTOR PLATE SHALL BE FABRICATED FROM ASTM GRADE A36 STEEL AND GALVANIZED.

FOR GALVANIZED REQUIREMENTS, SEE SECTION 614 OF THE STANDARD SPECIFICATIONS.

ALL HOLE DIAMETERS SHALL BE 1".

FOR OPPOSITE SIDE INSTALLATION MIRROR DRAWINGS.

(10) STIFFENERS LOCATED AT THE OUTSIDE EDGES OF THE COVER PLATES SHALL BE WELDED AS FOLLOWS:
SINGLE BEVEL GROOVE WELD ON EXTERNAL SIDES AND 3/16" FILLET WELD BY 1" LONG SPACED AT 2" ON INTERNAL SIDES.

(11) STIFFENERS LOCATED ON THE INSIDE OF THE COVER PLATE SHALL BE WELDED AS FOLLOWS:
3/16" FILLET WELD BY 1" LONG SPACED AT 2".

CONNECTOR PLATE DIMENSION (PER ASSEMBLY)

PLATE	QUANTITY	SHAPE	SIZE (A x B x C x D)	THICKNESS
P1	1		20" x 20"	3/16"
P2	1		20" x 20" x 28 9/16"	3/16"
P3	1		39" x 3 5/8" x 20" x 19 5/16"	3/16"
S1	4		18 7/16" x 3 3/8" x 18 3/4"	1/4"
S2	1		10 1/4" x 2 7/16" x 10 3/8" x 1/2"	1/4"
S3	1		3" x 1 1/16" x 3 1/8" x 1/2"	1/4"
S4	1		6 1/8" x 2 7/16"	1/4"
S5	1		6 1/8" x 1 1/16"	1/4"
S6	1		7 3/4" x 1 3/4"	1/4"
S7	1		2 9/16" x 6" x 3 5/8" x 5 7/8"	1/4"
S8	1		1 5/32" x 7 1/2" x 2 1/2" x 7 3/8"	1/4"
S9	1		6 1/16" x 6 3/16" x 1 1/32"	1/4"
S10	1		1 7/8" x 9 7/8" x 3 5/8" x 9 11/16"	1/4"
S11	1		8 1/2" x 8 3/4" x 1 13/16"	1/4"

SINGLE SLOPE CONNECTION PLATE

MIDWEST GUARDRAIL SYSTEM
THRIE BEAM TRANSITION (MGS)

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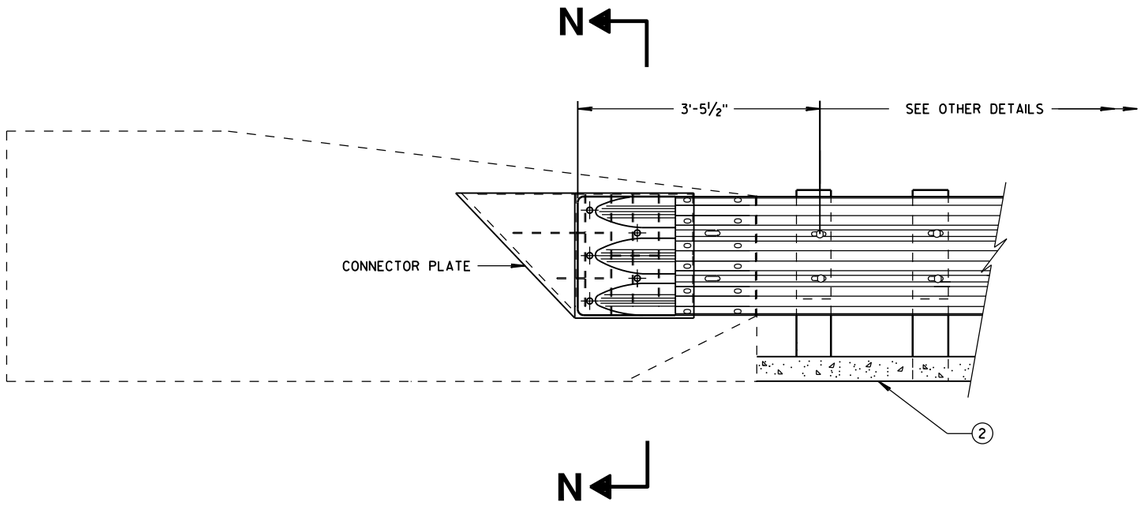
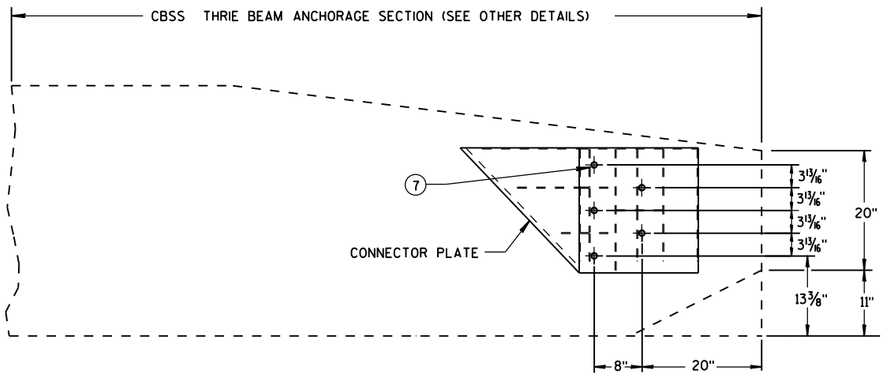


THRIE BEAM CONNECTION TO SINGLE SLOPE BARRIER



SINGLE SLOPE CONNECTION PLATE PLACEMENT

GENERAL NOTES

CONNECTOR PLATE, DRILLING BOLT HOLES THROUGH THE PARAPET, BOLTS, NUTS, WASHERS AND REPAIRING DAMAGED CONCRETE ARE INCIDENTAL TO THE CONTRACT.

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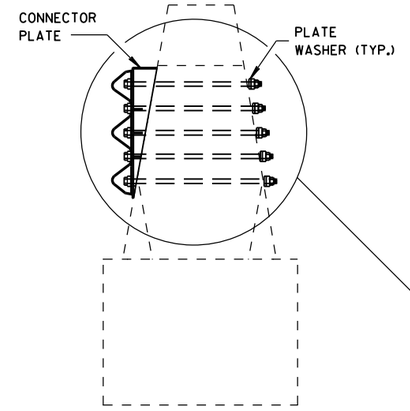
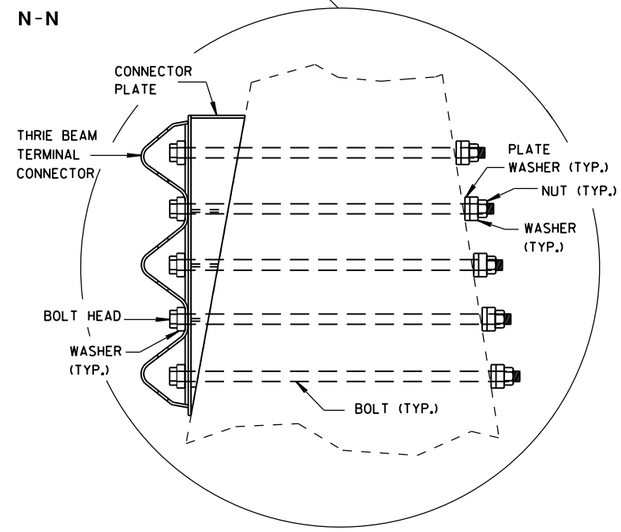
(7) BOLTS MAY BE A325 BOLTS OR A449 BOLTS. BOLT LENGTH AND THREADING LENGTH ARE TO ALLOW FOR A TIGHT CONNECTION BETWEEN RIGID BARRIER AND THRIE BEAM CONNECTION PLATE. CONTRACTOR IS TO FIELD VERIFY BOLT LENGTH AND THREAD LENGTH. ONE ROUND WASHER REQUIRED BETWEEN BOLT HEAD AND THRIE BEAM CONNECTOR PLATE. BOLTS THAT EXTEND THROUGH THE PARAPET AND OUT THE BACK FACE REQUIRE A HARDENED ROUND STEEL WASHER THAT IS 2" O.D. X 5/8" THICK AND ONE PLATE WASHER. REPAIR ANY DAMAGED CONCRETE FROM BOLT INSTALLATION.



SECTION N-N



MIDWEST GUARDRAIL SYSTEM
THRIE BEAM TRANSITION (MGS)

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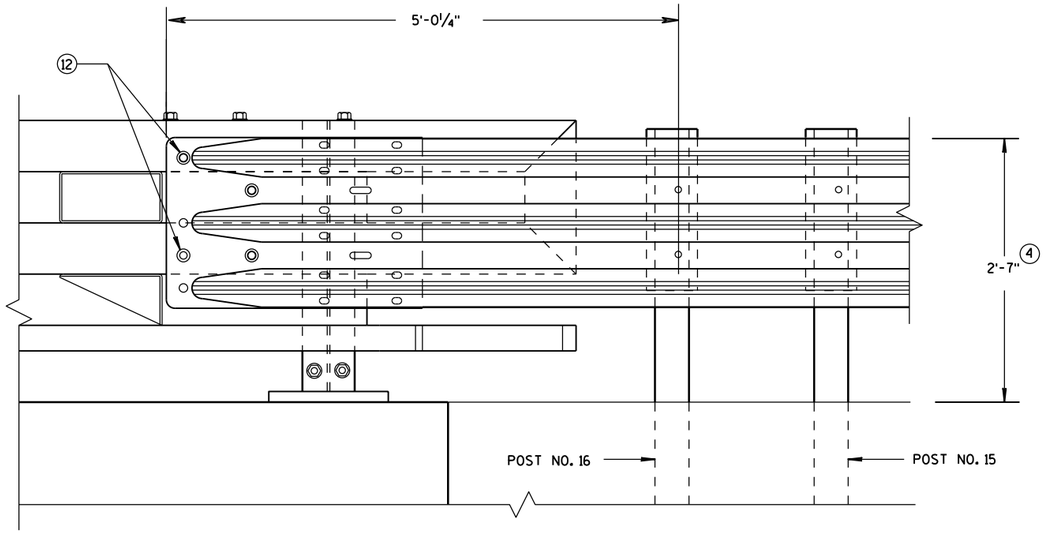
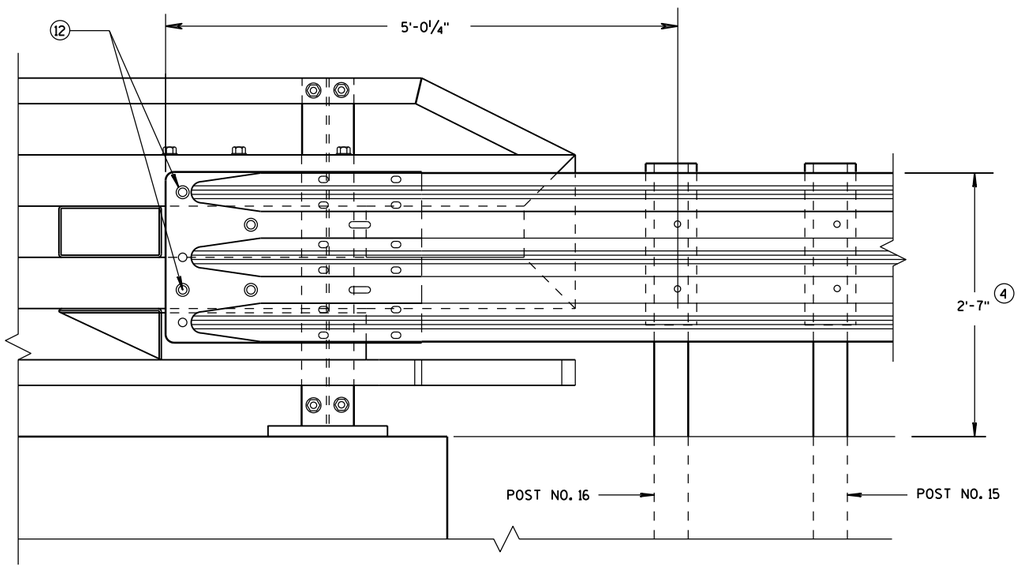
S.D.D. 14 B 45-4j



ELEVATION OF DETAIL AT NY3 END POST

THRIE BEAM RAIL ATTACHMENT



ELEVATION OF DETAIL AT NY4 END POST

THRIE BEAM RAIL ATTACHMENT

GENERAL NOTES

(4) TOLERANCE FOR TOP OF BEAM IS ± 1".

(12) BOLTS MAY BE A325 BOLTS OR A449 BOLTS. BOLT LENGTH AND THREADING LENGTH ARE TO ALLOW FOR A TIGHT CONNECTION BETWEEN RIGID BARRIER AND THRIE BEAM CONNECTION PLATE. CONTRACTOR IS TO FIELD VERIFY BOLT LENGTH AND THREAD LENGTH. ONE ROUND WASHER REQUIRED BETWEEN BOLT HEAD AND THRIE BEAM CONNECTOR PLATE. ON BACKSIDE OF PARAPET ONE ROUND WASHER, AND NUT REQUIRED. BOLT THREAD IS TO EXTEND ½-INCH BEYOND NUT.

MIDWEST GUARDRAIL SYSTEM
THRIE BEAM TRANSITION (MGS)

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
June, 2015
DATE

/S/ Jerry H. Zogg
ROADWAY STANDARDS D 393 NT
ENGINEER

FHWA

6

S.D.D. 14 B 45-4k

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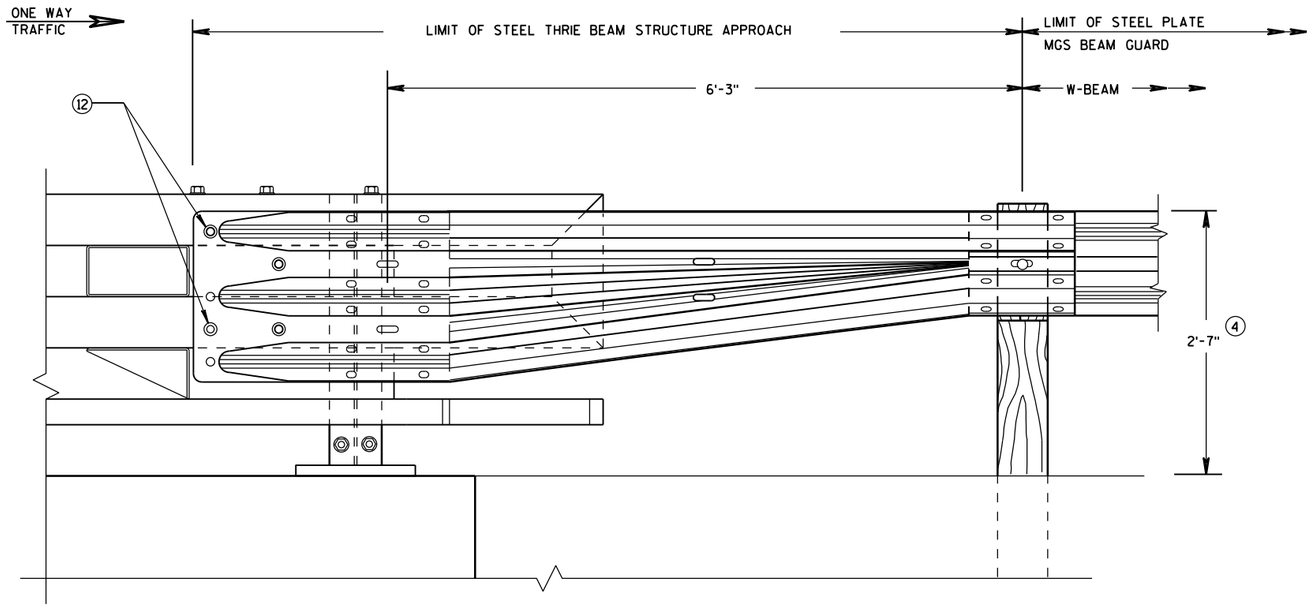
S.D.D. 14 B 45-4k



FRONT VIEW

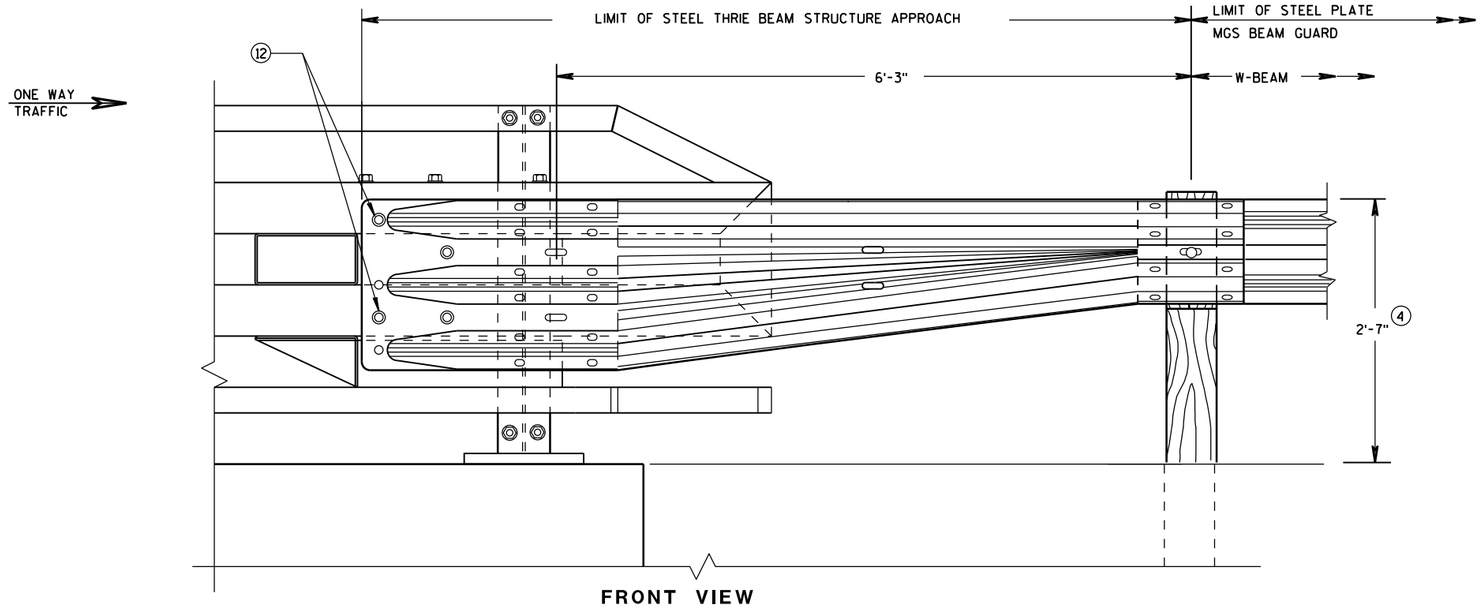
W BEAM TRANSITION AND CONNECTION TO BRIDGE RAILING TYPE "NY3"

(USE ONLY ON THE TRAFFIC EXIT END OF ONE WAY BRIDGES)

GENERAL NOTES

(4) TOLERANCE FOR TOP OF BEAM IS ± 1".

(12) BOLTS MAY BE A325 BOLTS OR A449 BOLTS. BOLT LENGTH AND THREADING LENGTH ARE TO ALLOW FOR A TIGHT CONNECTION BETWEEN RIGID BARRIER AND THRIE BEAM CONNECTION PLATE. CONTRACTOR IS TO FIELD VERIFY BOLT LENGTH AND THREAD LENGTH. ONE ROUND WASHER REQUIRED BETWEEN BOLT HEAD AND THRIE BEAM CONNECTOR PLATE. ON BACKSIDE OF PARAPET ONE ROUND WASHER, AND NUT REQUIRED. BOLT THREAD IS TO EXTEND ½-INCH BEYOND NUT.



FRONT VIEW

W BEAM TRANSITION AND CONNECTION TO BRIDGE RAILING TYPE "NY4"

(USE ONLY ON THE TRAFFIC EXIT END OF ONE WAY BRIDGES)

MIDWEST GUARDRAIL SYSTEM
THRIE BEAM TRANSITION (MGS)

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
June, 2015 — DATE
/S/ Jerry H. Zogg — ROADWAY STANDARDS ENGINEER
D 394 NT
FHWA

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S.D.D. 14 B 45-4L

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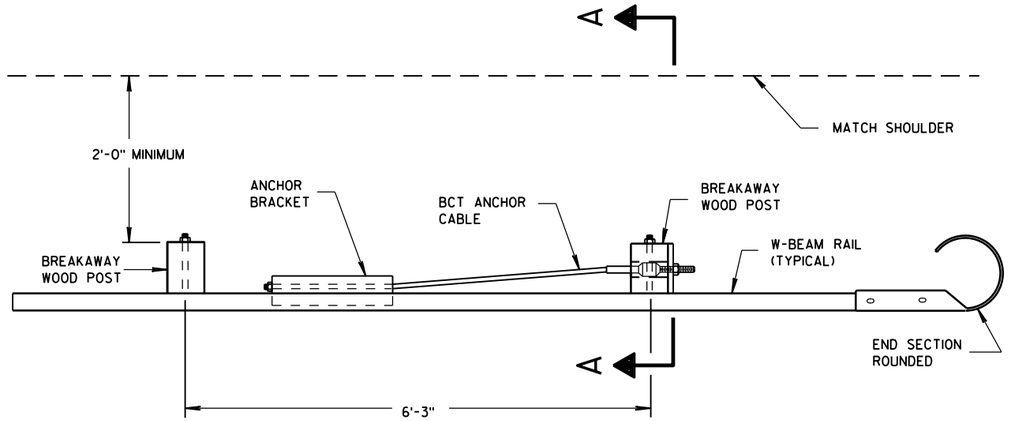
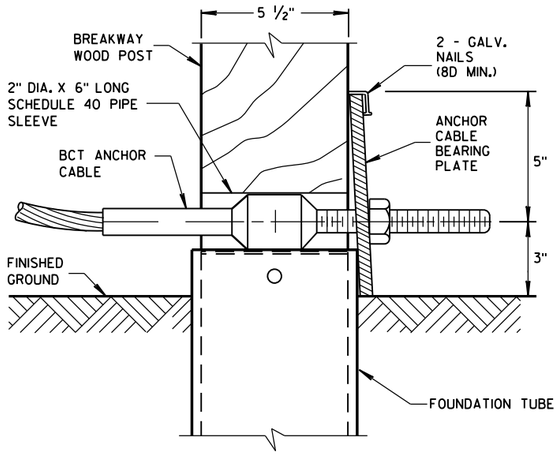
S.D.D. 14 B 45-4L



PLAN VIEW



DETAIL A

POST NO. 1
GROUNG STRUT NOT SHOWN FOR CLARITY.

GENERAL NOTES

SEE SDD 14 B 42 FOR MORE INFORMATION.

END SECTION BOLTS AND NUTS HAVE THE SAME MATERIAL REQUIREMENTS AS SPLICE BOLTS.

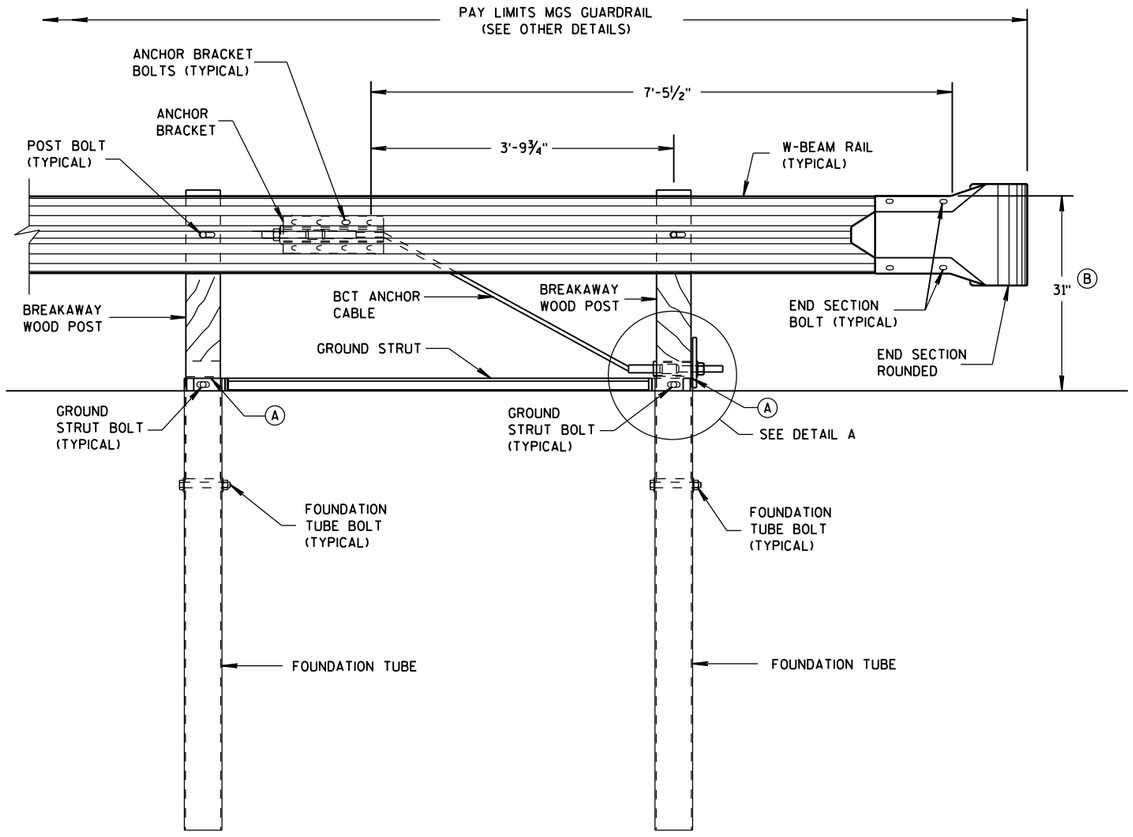
FOUNDATION TUBE BOLTS ARE ⅞" DIAMETER ASTM A307 HEX HEAD BOLT. FOUNDATION TUBE BOLTS REQUIRE ASTM A563 A NUT AND TWO ASTM F844 ⅞" DIAMETER FLAT WASHERS. INSTALL ONE WASHER UNDER BOLT HEAD AND ONE WASHER UNDER NUT.

ANCHOR BRACKET AND GROUND STRUT BOLTS ARE A ⅝" DIAMETER ASTM A307 HEX HEAD BOLT. ANCHOR BRACKET BOLTS REQUIRE ASTM A563 A NUT AND TWO ASTM F844 ⅝" DIAMETER FLAT WASHERS. INSTALL ONE WASHER UNDER BOLT HEAD AND ONE WASHER UNDER NUT.

W-BEAM END SECTION ROUNDED HAS THE SAME MATERIAL PROPERTIES AS STANDARD STEEL RAIL.

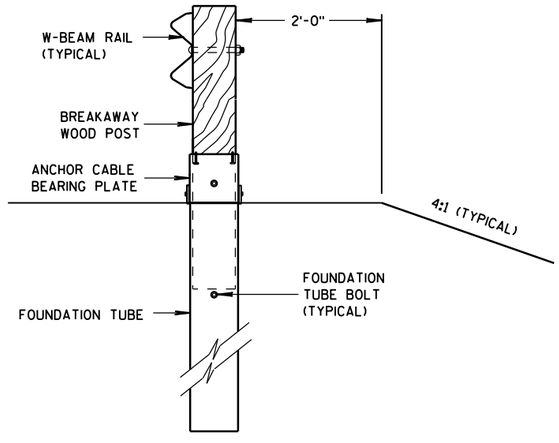
(A) TOP OF FOUNDATION TUBE SHALL BE NO MORE THAN 3" ABOVE FINISHED GROUND.

(B) FOR NEW CONSTRUCTION TOP OF RAIL IS 31" ± 1".
FOR EXISTING INSTALLATIONS TOP OF RAIL IS BETWEEN 27¾" TO 32" ± 1".

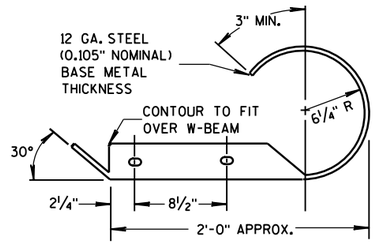


FRONT VIEW

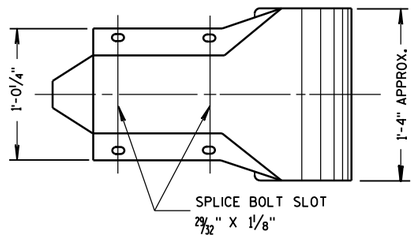
END RAIL DETAIL



SECTION A-A



PLAN VIEW



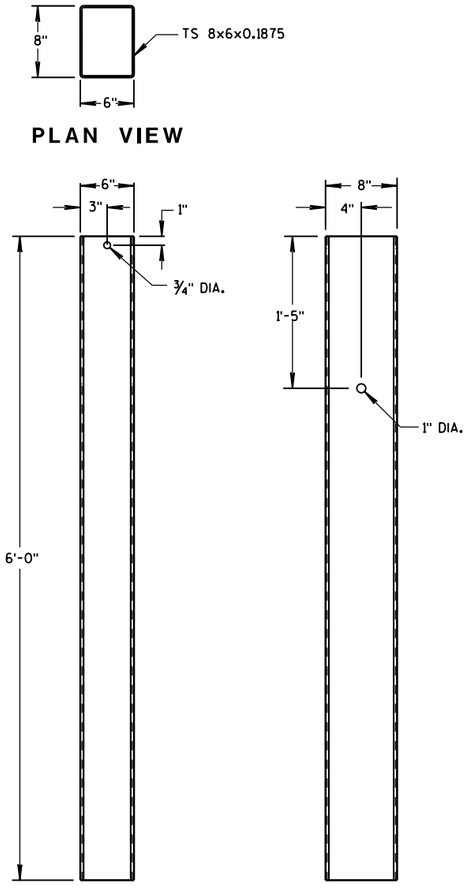
FRONT VIEW

W BEAM END SECTION ROUNDED

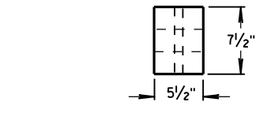
MIDWEST GUARDRAIL SYSTEM (MGS) TYPE 2 TERMINAL

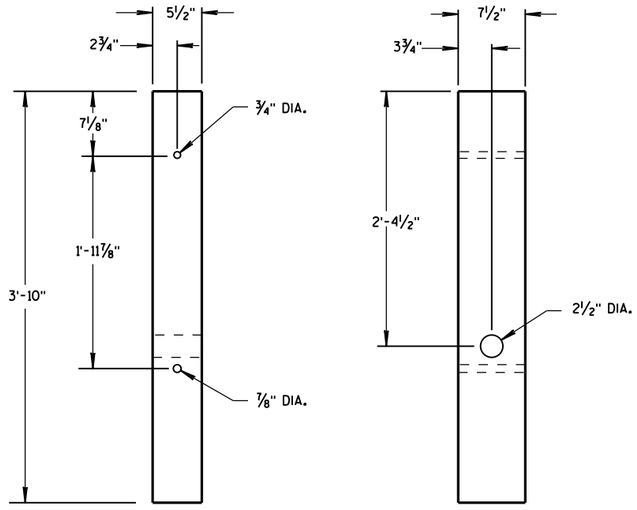
STATE OF WISCONSIN
DEPARTMENT OF TRANSPO

6
S.D.D. 14 B 47-2a



FOUNDATION TUBE



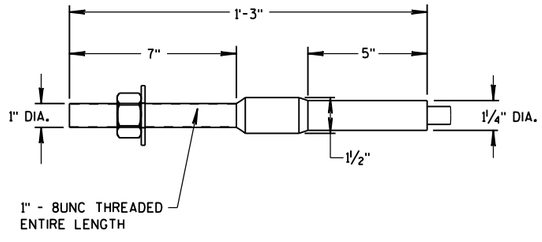


BREAKAWAY WOOD POST

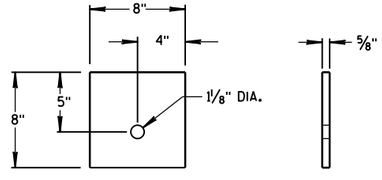
GENERAL NOTES

BCT ANCHOR CABLE IS A ¾" DIAMETER 6X19 IWRC IPS GALVANIZED WIRE ROPE. THE SWAGED FITTINGS AND STUD ARE REQUIRED. END FITTING SHALL BE MACHINED FROM HOT-ROLLED CARBON STEEL CONFORMING TO ASTM A576 GRADE 1035 AND GALVANIZED ACCORDING TO ASTM A123. TREADED STUD SHALL CONFORM TO ASTM A325 OR SAE GRADE 5. MINIMUM BREAKING STRENGTH OF WIRE ROPE IS 43,000 LB. WIRE ROPE IS TO BE TAUT.

BCT ANCHOR CABLE



DETAIL B



ANCHOR CABLE
BEARING PLATE

MIDWEST GUARDRAIL
SYSTEM (MGS) TYPE 2 TERMINAL

STATE OF WISCONSIN
DEPARTMENT OF TRANSPOI

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S.D.D. 14 B 47-2b

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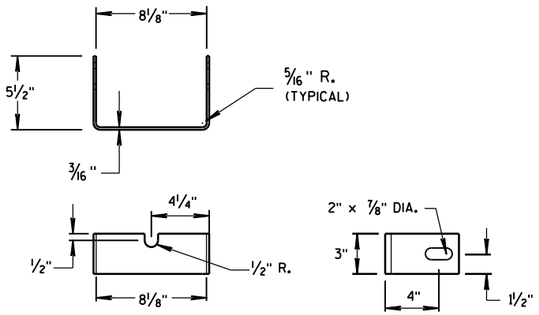
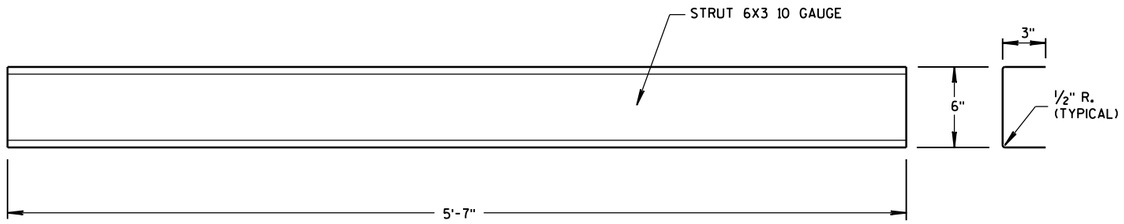
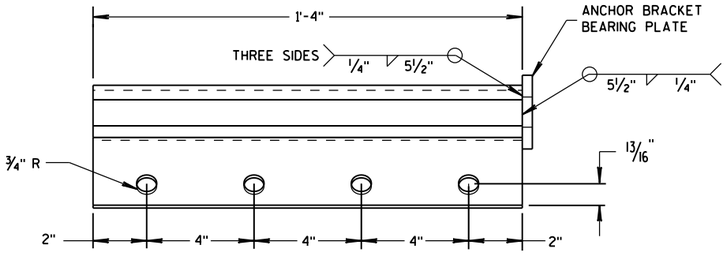
S.D.D. 14 B 47-2b

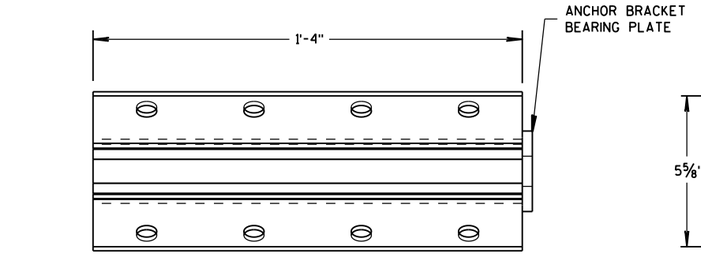


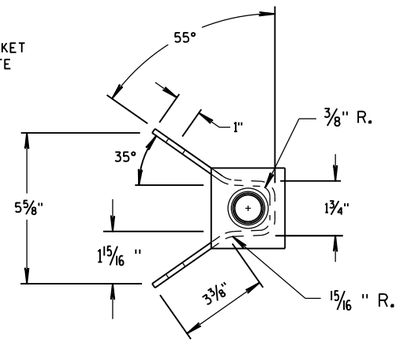
YOKE DETAIL



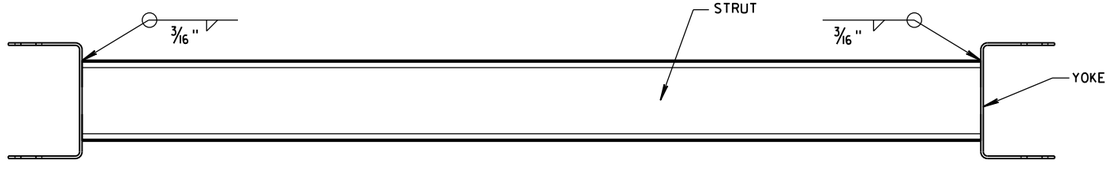
STRUT DETAIL



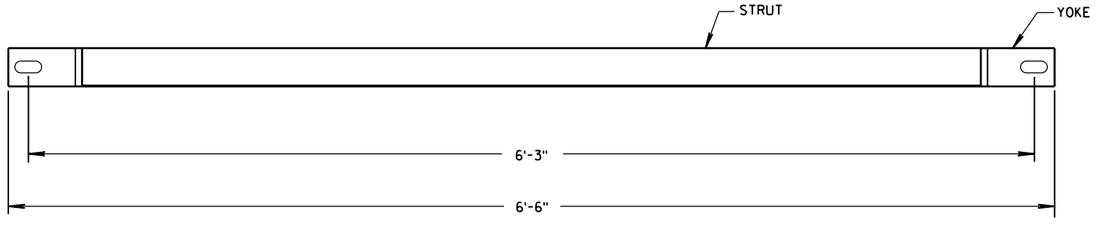




ANCHOR BRACKET

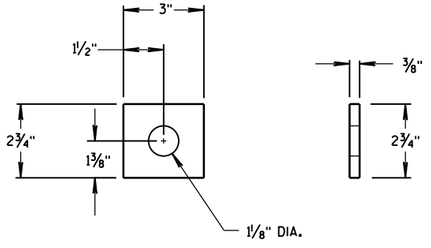


PLAN VIEW



FRONT VIEW

GROUND STRUT DETAIL



ANCHOR BRACKET BEARING PLATE

MIDWEST GUARDRAIL SYSTEM (MGS) TYPE 2 TERMINAL

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
June 2014
DATE

/S/ Jerry H. Zogg
ROADWAY STANDARDS ENGINEER

FHWA

6

S.D.D. 14 B 47-2c

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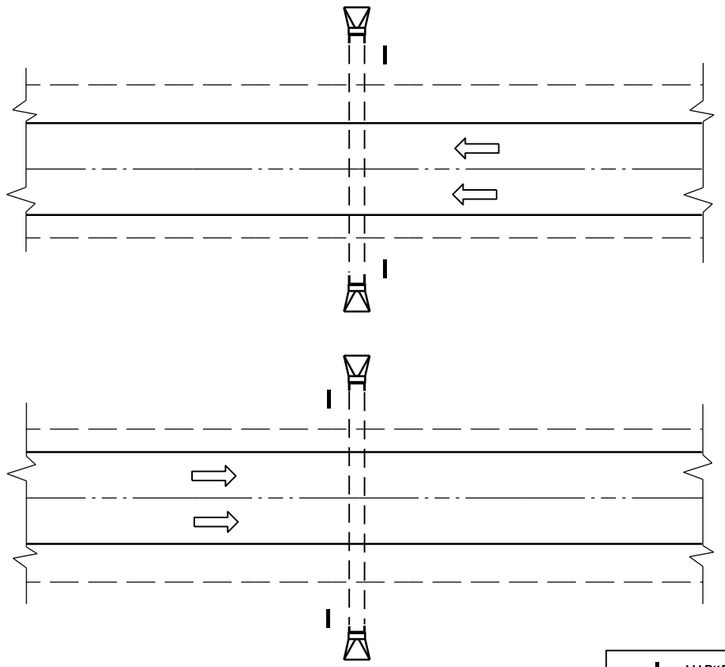
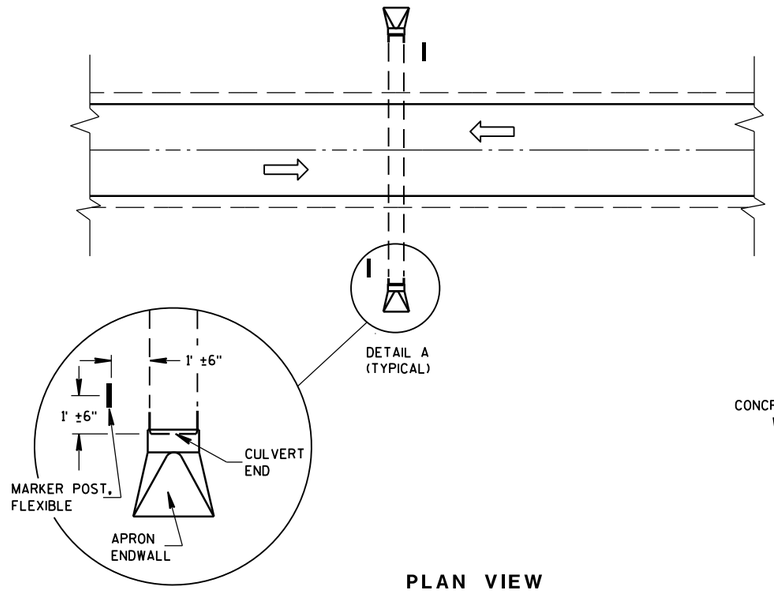
S.D.D. 14 B 47-2c



PLAN VIEW

DIVIDED HIGHWAY



DETAIL A
(TYPICAL)

PLAN VIEW

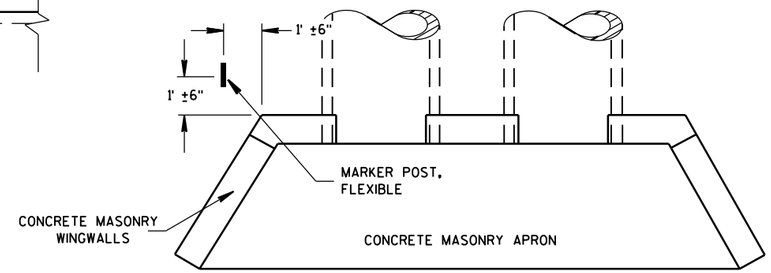
UNDIVIDED HIGHWAY

MARKER POST, FLEXIBLE

DIRECTION OF TRAFFIC FLOW

GENERAL NOTES

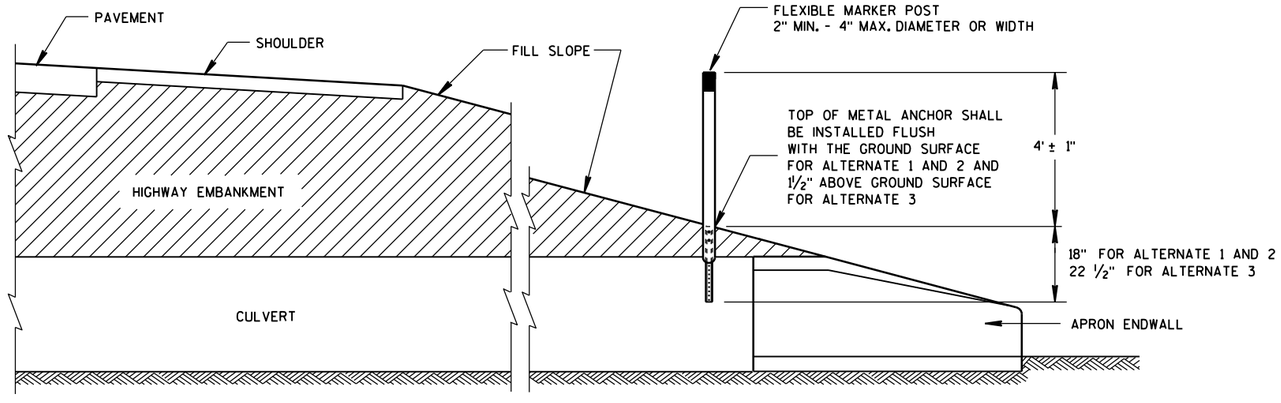
DETAILS OF CONSTRUCTION, MATERIALS AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS AND THE APPLICABLE SPECIAL PROVISIONS.



PLAN VIEW

CONCRETE MASONRY ENDWALLS FOR CULVERT PIPE AND PIPE ARCH

FLEXIBLE MARKER POST LOCATION



CROSS SECTION

FLEXIBLE MARKER POST

FLEXIBLE MARKER POST FOR CULVERT END

STATE OF WISCONSIN
DEPARTMENT OF TRANSPOI

6

S.D.D. 15 A 3-2a

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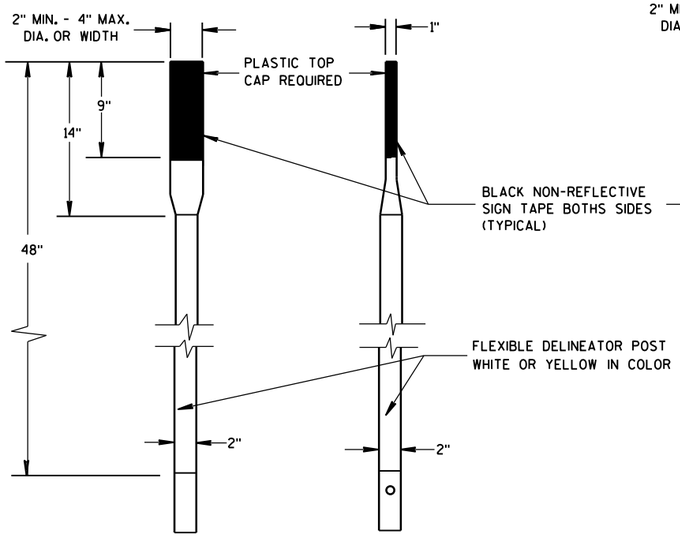
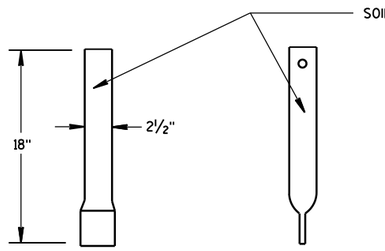
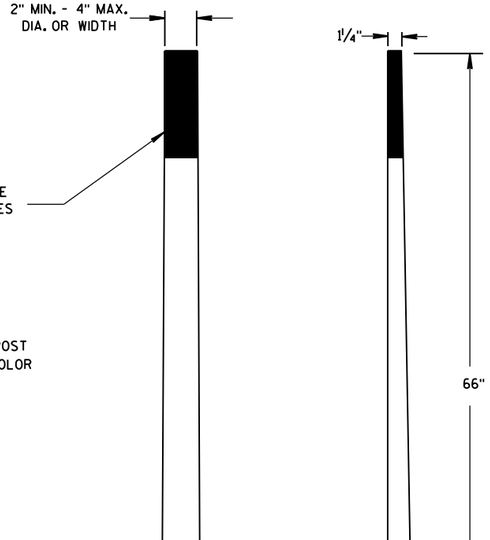
S.D.D. 15 A 3-2a





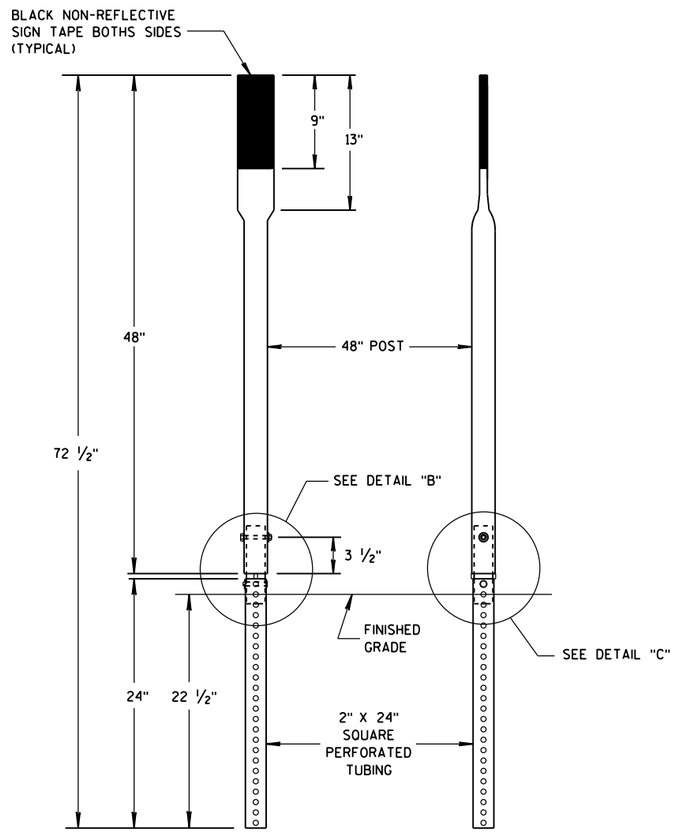
FRONT VIEW SIDE VIEW

ALTERNATE 1



FRONT VIEW SIDE VIEW

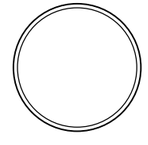
ALTERNATE 2



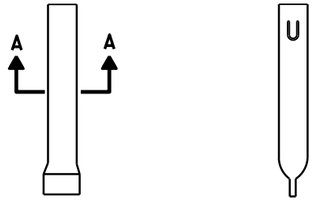
FRONT VIEW SIDE VIEW

ALTERNATE 3

FLEXIBLE MARKER POSTS

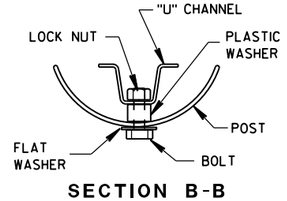


SECTION A-A

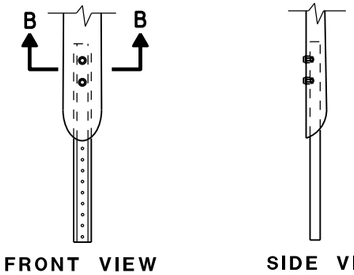


FRONT VIEW SIDE VIEW

ALTERNATE 1

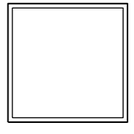


SECTION B-B

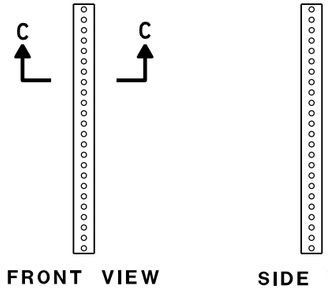


FRONT VIEW SIDE VIEW

ALTERNATE 2



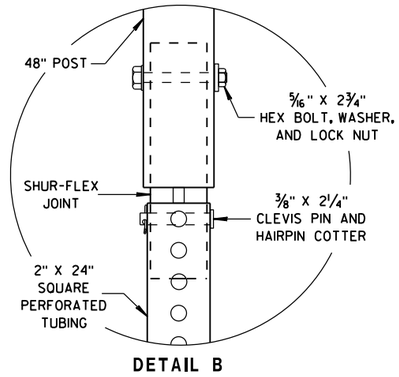
SECTION C-C



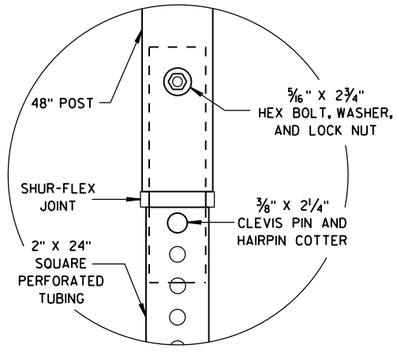
FRONT VIEW SIDE VIEW

ALTERNATE 3

FLEXIBLE MARKER POST ANCHORS



DETAIL B



DETAIL C

FLEXIBLE MARKER POST
FOR CULVERT END

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
10/1/2012 — DATE
/S/ Travis Feltes — STATE TRAFFIC ENGINEER
FHWA

6

S.D.D. 15 A 3-2b

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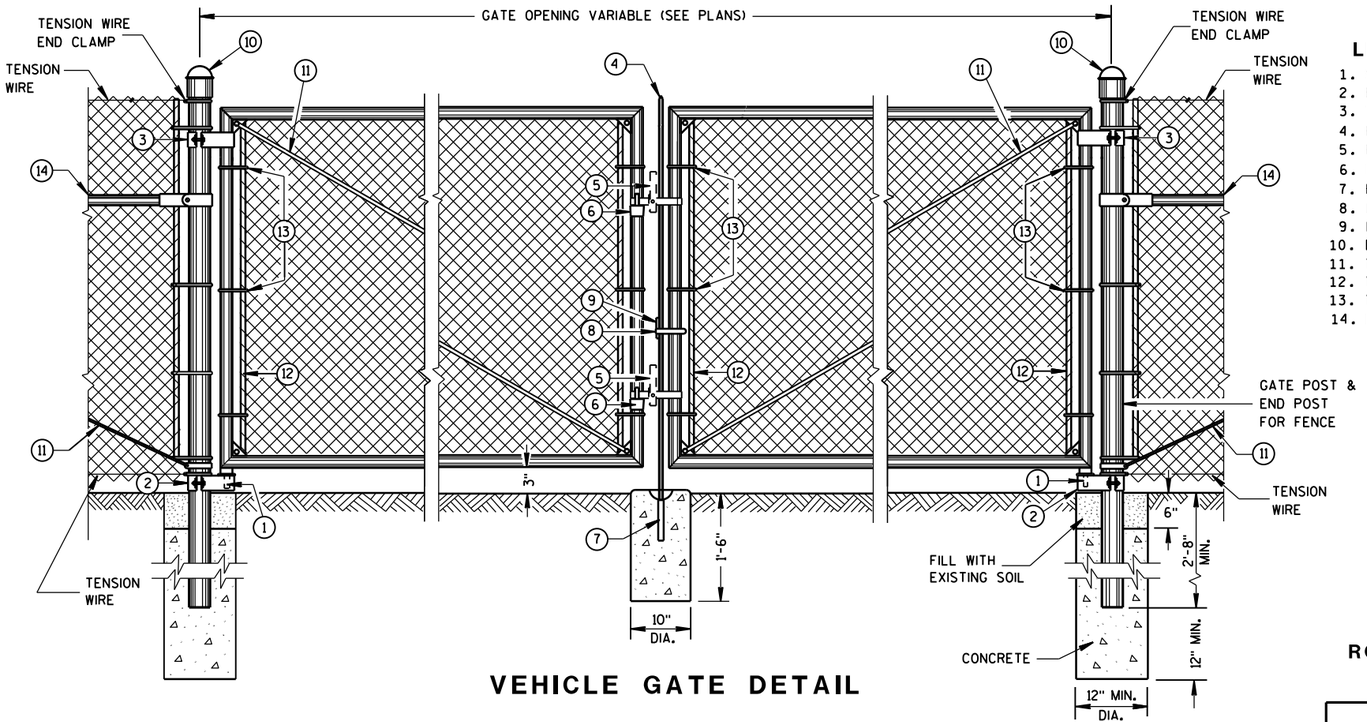
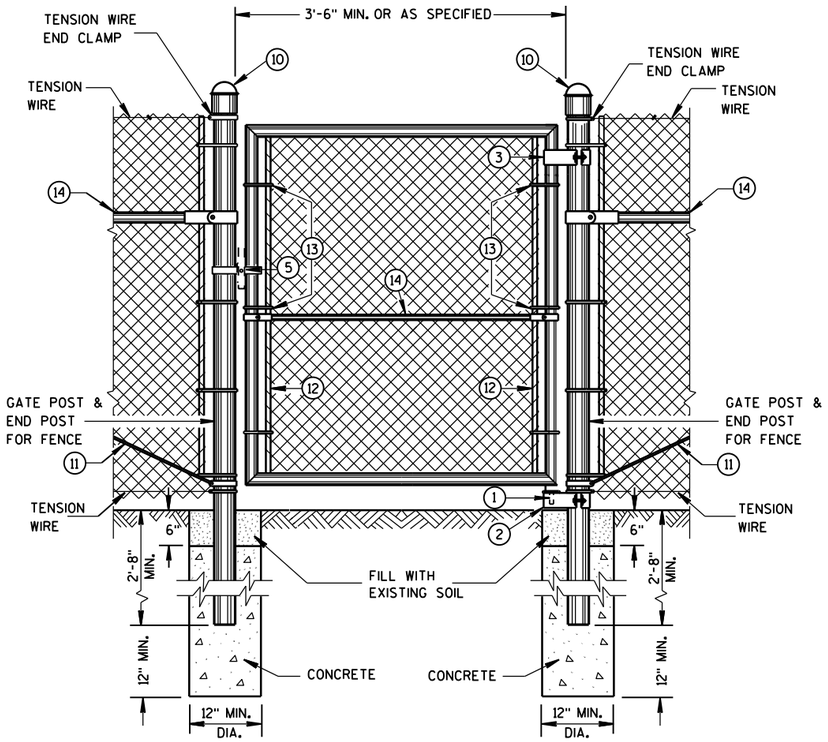
S.D.D. 15 A 3-2b



VEHICLE GATE DETAIL



PEDESTRIAN GATE DETAIL

LEGEND

1. STRAIGHT PLUG
2. BOTTOM HINGE
3. TOP HINGE
4. PLUNGER ROD
5. FULCRUM LATCH
6. FORK CATCH *
7. PLUNGER ROD CATCH
8. LOCK KEEPER GUIDE
9. LOCK KEEPER
10. DOME TOPS
11. TRUSS RODS
12. TENSION BAR
13. TENSION BANDS
14. BRACE RAIL

*NOT REQUIRED ON SINGLE SWING PEDESTRIAN GATE

GENERAL NOTES

FENCE POSTS INSTALLED ON CONCRETE WALLS SHALL BE ANCHORED INTO EMBEDDED METAL SLEEVES OR CORED HOLE BY FILLING THE ANNULAR SPACE WITH PEA GRAVEL FOLLOWED BY AN EPOXY RESIN ADHESIVE. THE EPOXY RESIN ADHESIVE SHALL CONFORM TO THE REQUIREMENTS OF AASHTO M 235, CLASS A, B OR C.

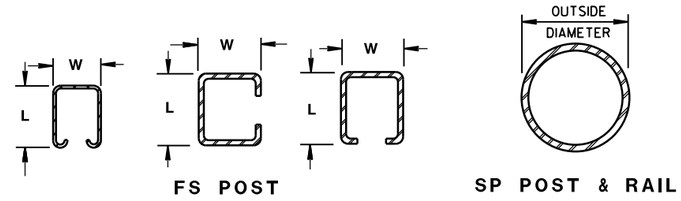
USE FENCE FABRIC KNUCKLED AT BOTH SELVAGES.

FOR LEAF GATES GREATER THAN 8 FEET WIDE, INSTALL INTERIOR VERTICAL BRACE RAIL AT 8 FOOT INTERVALS.

FOR FABRIC HEIGHTS GREATER THAN 8 FEET, INSTALL INTERIOR HORIZONTAL BRACE RAILS TO LEAF GATE.

MAXIMUM SAG FOR OUTER GATE MEMBER SHALL NOT EXCEED THE GREATER OF 1% OF THE LEAF GATE WIDTH OR 2 INCHES.

USE TYPE 2, CLASS 3, MARCELLED/CRIMPED, TENSION WIRE PER ASTM A 817.



FS POST

SP POST & RAIL

CROSS SECTIONS OF POSTS AND RAILS

ROLLED-FORMED STEEL FENCE POST (2.0 OZ./SQ. FT. COATING)

POST TYPE	LENGTH (L) INCH	WIDTH (W) INCH	WEIGHT LBS/FT
FS1	1.625	1.25	1.35
FS2†	1.875	1.625	1.850
FS2	1.875	1.625	2.400
FS3	2.250	1.700	2.780

ROUND STEEL FENCE POST (1.8 OZ./SQ. FT. COATING)

POST TYPE	OUTSIDE DIMENSION INCH	WALL THICKNESS INCH	WEIGHT LBS/FT
SP1	1.660	0.140	2.270
SP2	1.900	0.145	2.720
SP3	2.375	0.154	3.650
SP4	2.875	0.203	5.800
SP5	4.000	0.226	9.120
SP6	6.625	0.280	18.990
SP7	8.625	0.322	28.580

REQUIRED FENCE POST SIZES

USE	FABRIC HEIGHTS FEET	POST TYPE
TERMINAL POSTS **	LESS THAN OR EQUAL TO 6 FT.	SP3
	GREATER THAN OR EQUAL TO 6 FT.	SP4
LINE POSTS	LESS THAN OR EQUAL TO 6 FT.	SP2
	LESS THAN OR EQUAL TO 8 FT.	SP3
	GREATER THAN OR EQUAL TO 8 FT.	SP4
	LESS THAN OR EQUAL TO 8 FT.	FS2 OR FS2†
	GREATER THAN OR EQUAL TO 8 FT.	FS3

REQUIRED POST SIZE FOR GATES

USE	LEAF WIDTHS FEET	POST TYPE
GATES	LESS THAN OR EQUAL TO 6 FT.	SP4
	LESS THAN OR EQUAL TO 13 FT.	SP5
	LESS THAN OR EQUAL TO 18 FT.	SP6
	LESS THAN OR EQUAL TO 23 FT.	SP7

BRACE RAIL TYPES

USE		TYPE
BRACE RAIL		SP1 OR FS1

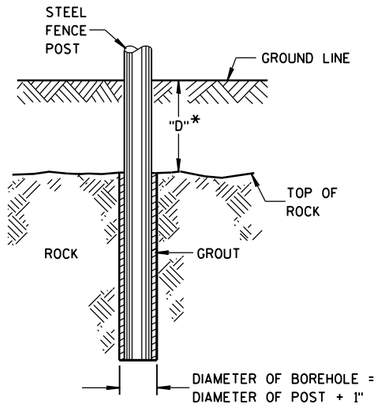
** INCLUDES END, CORNER, ANGLE, INTERSECTION AND INTERMEDIATE BRACED POSTS

FENCE CHAIN LINK

STATE OF WISCONSIN
DEPARTMENT OF TRANSPOR

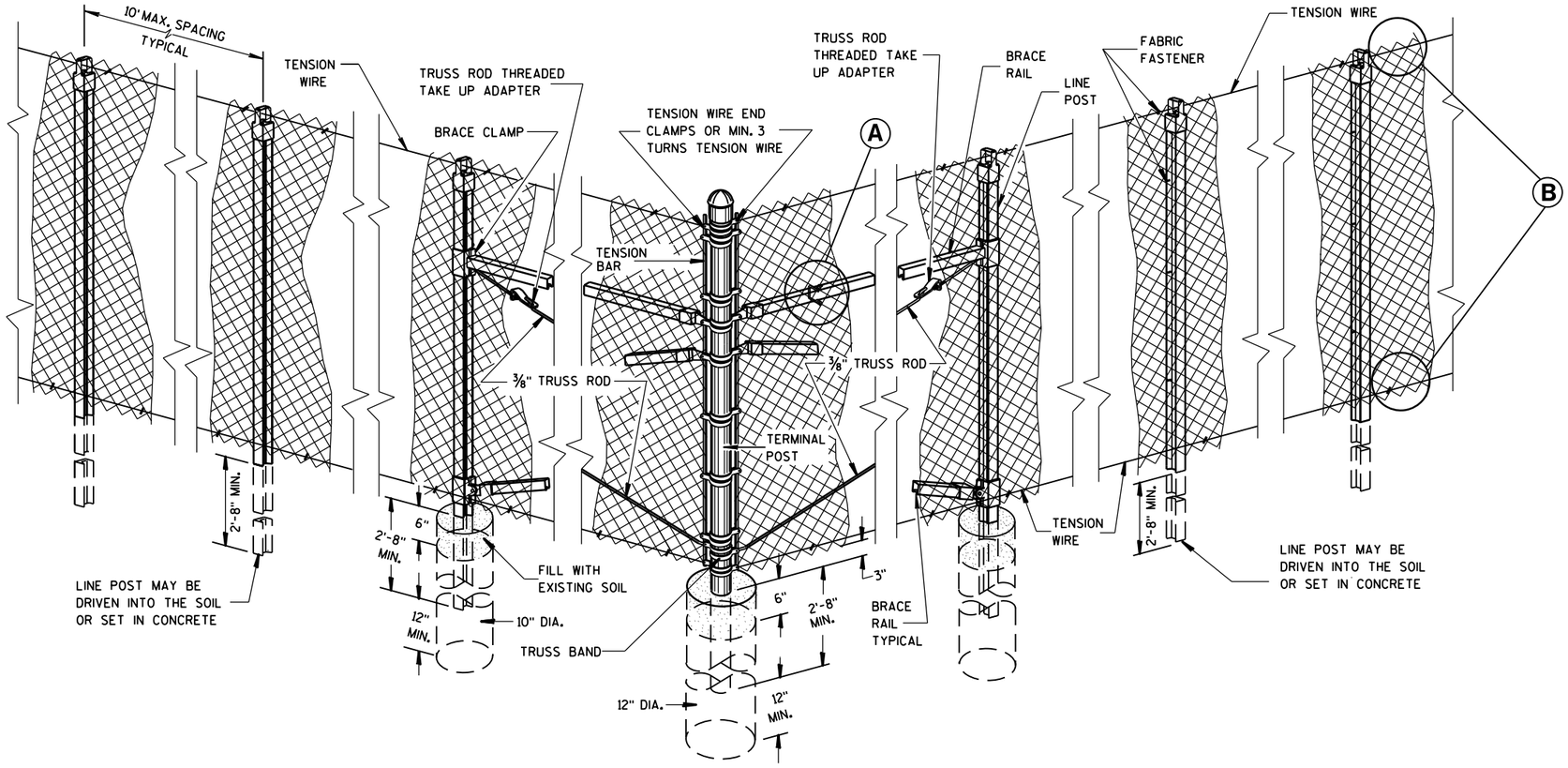
6

S.D.D. 15 B 3-15a

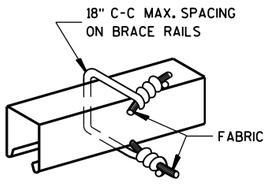


*IF "D" IS LESS THAN 2'-6", DRILL ROCK AND INSTALL GROUT

ROCK INSTALLATION OF LINE POST



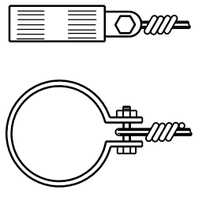
END, CORNER, ANGLE INTERSECTION & INTERMEDIATE BRACED POSTS



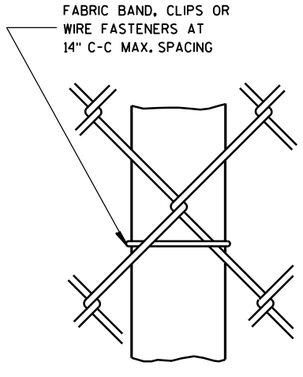
BRACE RAIL

FABRIC FASTENER

Ⓐ



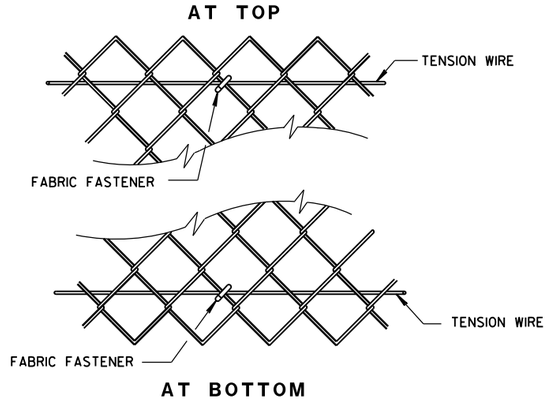
TENSION WIRE END CLAMP



LINE POST

FABRIC FASTENER

AT TOP



AT BOTTOM

SELVAGES

Ⓑ

FENCE CHAIN LINK

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
FEB. 2015 DATE
/S/ Jerry H. Zogg
ROADWAY STANDARDS DEVELOPMENT ENGINEER
FHWA

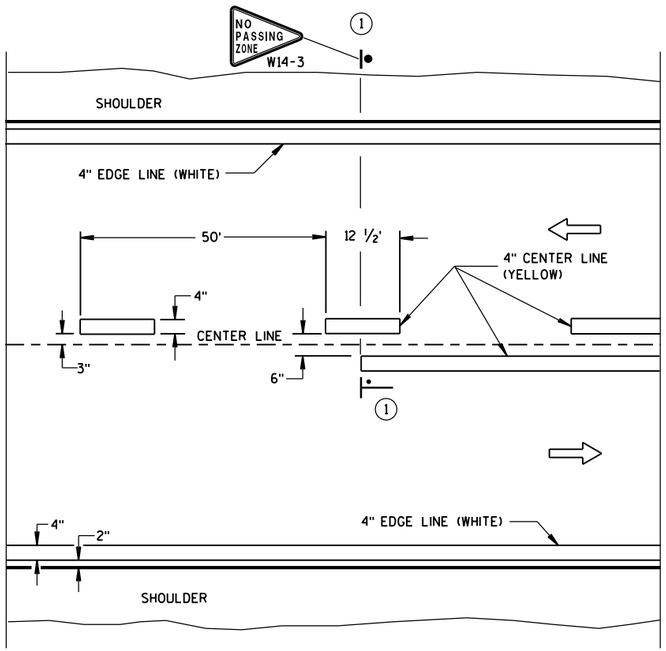
401

6

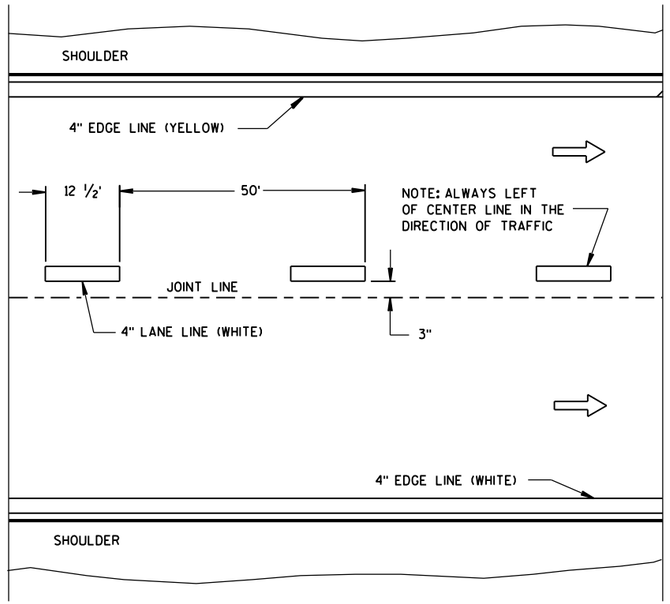
S.D.D. 15 B 3-15b

6

S.D.D. 15 B 3-15b



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) NO PASSING ZONE W14-3 SIGN SHALL BE LOCATED WITHIN 50 FEET OF THE "T" MARKING.

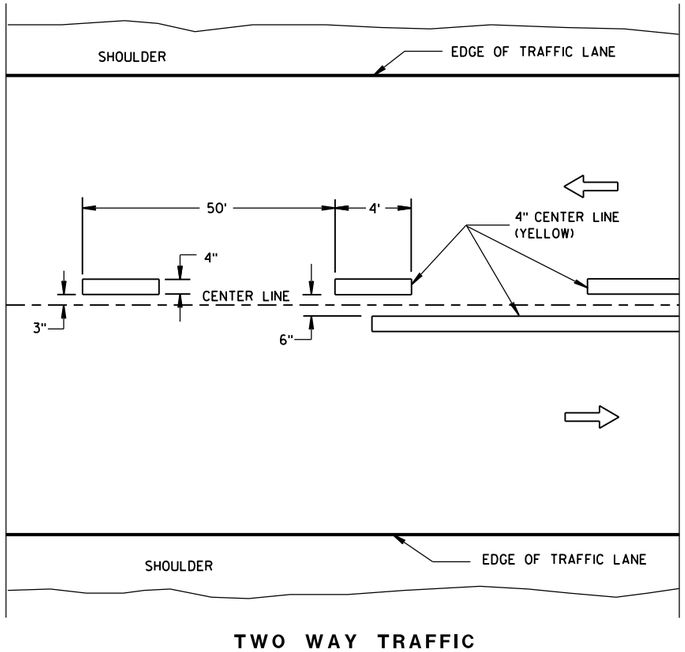
NOTE

ARROW SYMBOL (⇨) SHOWS DIRECTION OF TRAVEL

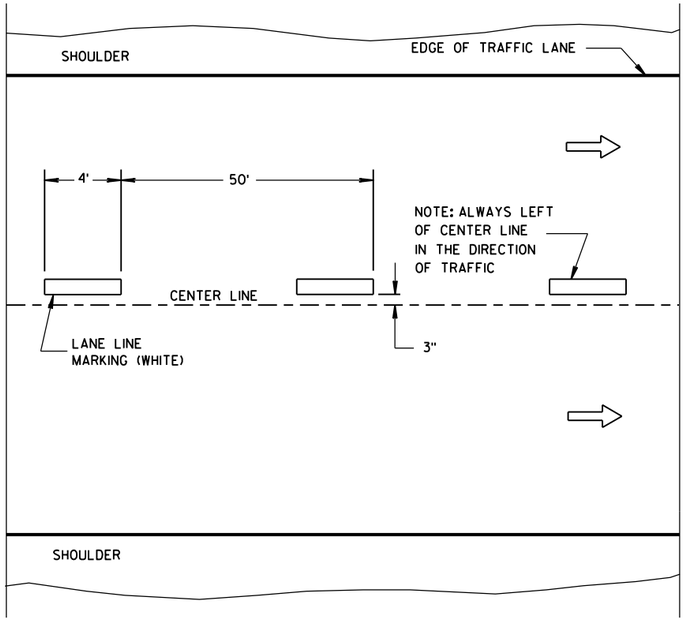
LEGEND

"T" MARKING

POST MOUNTED SIGN



TWO WAY TRAFFIC



ONE WAY TRAFFIC

TEMPORARY PAVEMENT MARKING

LONGITUDINAL MARKING (MAINLINE)	
STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION	
APPROVED	
Sept., 2016	/S/ Matthew R. Rauch
DATE	STATE SIGNING AND MAR[illegible] 402 [illegible]INEER
FHWA	

6

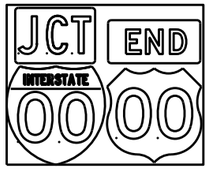
S.D.D. 15 C 8-17a

6

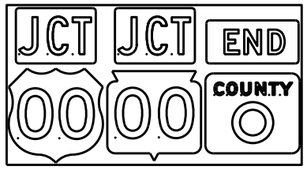
S.D.D. 15 C 8-17a

TYPICAL ASSEMBLIES

J1-1

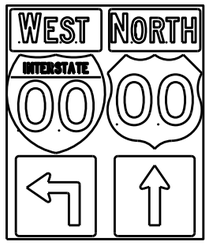


J1-2

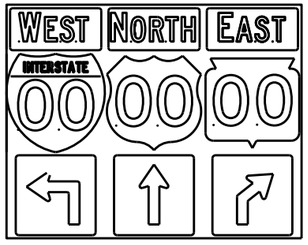


J1-3

J2-1



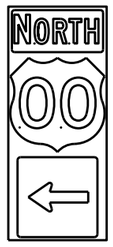
J2-2



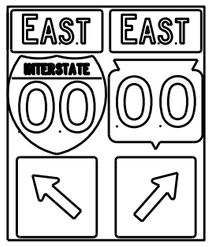
J2-3

JV

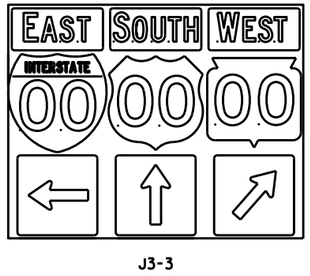
(Typical Vertical J-Assembly
See Note 10 and 11)



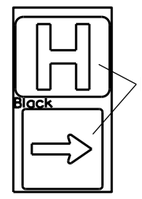
J3-1



J3-2



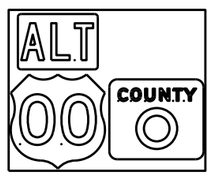
J3-3



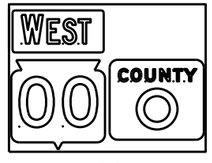
Blue Background

JH-1

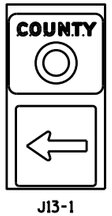
J4-1



J4-2



J4-2



J13-1

J12-1

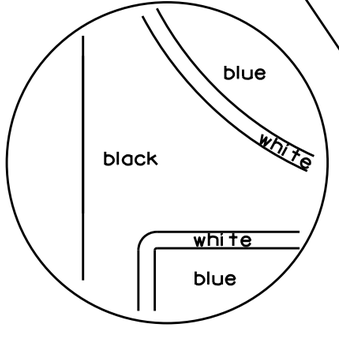
J32-1

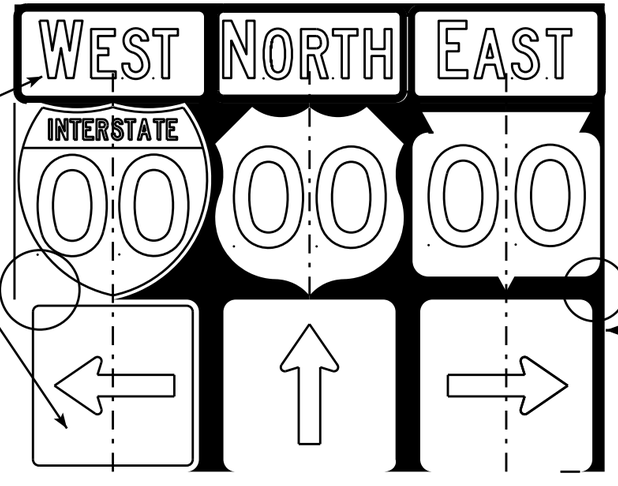
J33-1

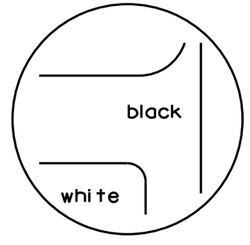
J23-1

J22-1

[blue background with interstate]







[black background]

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 or rounded if base material is plywood. If base material is metal the corners shall be rounded.
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 shields that are same size. If the route marker shields are different size use multiple piece component.
8. Route assemblies that have 24 inch route shields and have dimensions greater than 48 inches (both vertical and horizontal) shall have one horizontal splice between the arrows and route shields. Vertical splices shall not be used on route assemblies with a horizontal dimension of 144 inches or less. The contractor shall not use more than one vertical joint per sign and the joint shall be between route shields.
9. Route assemblies that have 36 inch shields and have dimensions greater than 48 inchs (both vertical and horizontal) shall have two horizontal splices. One horizontal splice shall be between the cardinal direction and route shields and the other horizontal splice shall be between the arrows and route shields. Vertical splices shall not be used on route assemblies with a horizontal dimension of 144 or less. The contractor shall not use more than one vertical joint per sign and the joint shall be between route shields.
10. All Vertical J Assemblies are given a Sign Code of JV
11. For JV Assemblies that have a mixture of Interstate and non Interstate shields, arrows and cardinals shall be white on blue.

ROUTE MARKERS & COMPONENTS
IN TYPICAL ASSEMBLIES

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

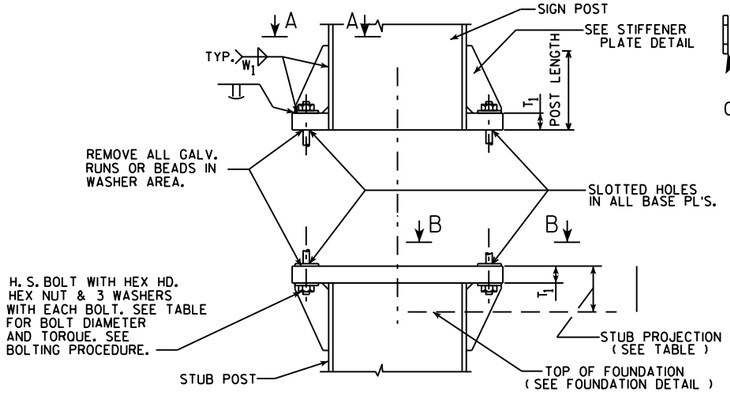
DATE 2/06/14 PL... A2-1S.8

PROJECT NO:

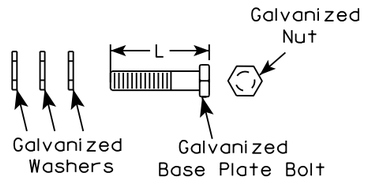
SHEET NO: E

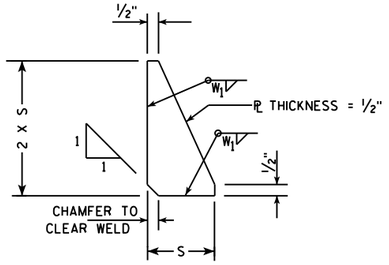
FILE NAME : C:\CAEFiles\Projects\tr_stdplate\A21S.DGN PLOT DATE : 06-FEB-2014 14:10 PLOT BY : mscsja PLOT NAME :

WISDOT/CADDS SHEET 42



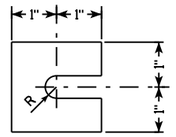
SIGN POST AND STUB POST ELEVATION





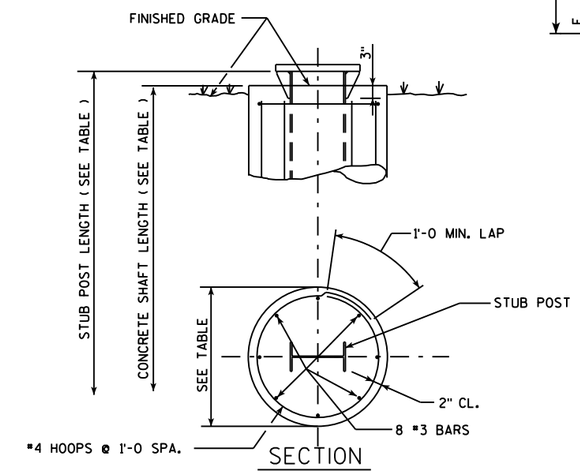
STIFFENER PLATE DETAIL

(SEE TABLE FOR DIMENSIONS)

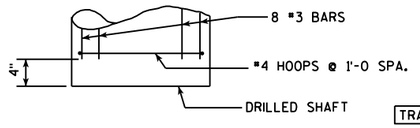


FURNISH 2 @ .012" ± THICK AND 2 @ .032" ± THICK SHIMS PER POST. SHIMS SHALL BE FABRICATED FROM BRASS SHIM STOCK OR STRIP CONFORMING TO A.S.T.M.- B36.

SHIM DETAIL



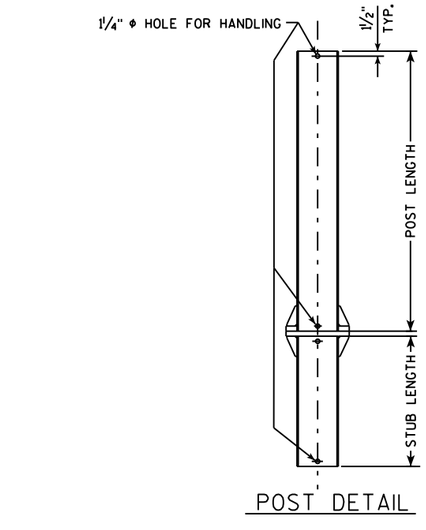
SECTION



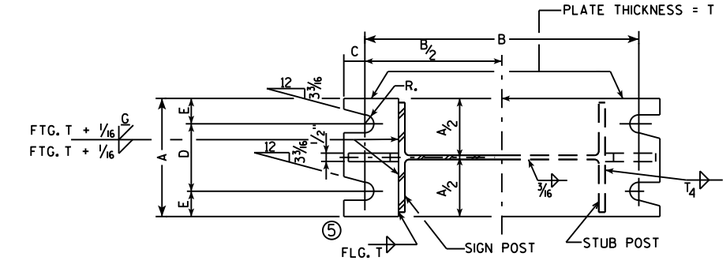
FOUNDATION DETAIL

QUANTITIES FOR 1 FOOTING		
	CONC. MASONRY C.Y.	REINF. STEEL LBS.
A	0.6	34
B	0.8	49
C	0.9	50
D	0.9	56
⑦ E	1.0	62

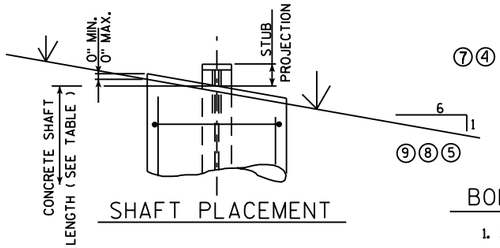
REINF.	TYPE	#3	#4
	A	8 @ 4'-5	5 @ 6'-3
	B	8 @ 6'-5	7 @ 6'-3
	C	8 @ 6'-11	7 @ 6'-3
	D	8 @ 7'-5	8 @ 6'-3
⑦	E	8 @ 7'-11	9 @ 6'-3



POST DETAIL



SECTION A-A SECTION B-B



SHAFT PLACEMENT

⑦④

DESIGN DATA

WIND PRESSURE = 75 M.P.H.
WIND COMPONENTS - NORMAL = 1.0 TRANSVERSE = 0.0
ICE LOAD = 3 P.S.F.

GROUP LOADS	PERCENT OF ALLOWABLE STRESS
1. DEAD	100
2. DEAD & WIND	140
3. DEAD, ICE & ½ WIND[4]	140

[4]25 P.S.F. MIN.

ALLOWABLE SOIL PRESSURE = 1½T / SQ. FT.
WIND LOAD WAS APPLIED TO THE AREA OF THE SIGN AND TO THE SUPPORTING MEMBERS.
ICE LOAD WAS APPLIED TO ONE FACE OF THE SIGN AND AROUND THE SURFACE OF THE SUPPORTING MEMBERS.

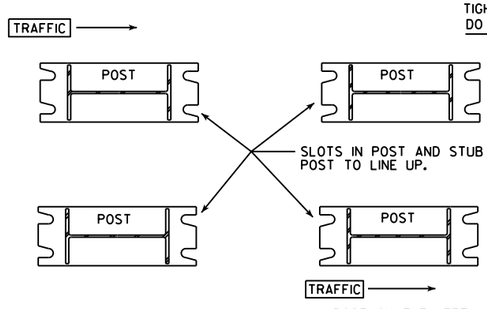
GENERAL NOTES

DRAWINGS SHALL NOT BE SCALED.
DESIGN CONFORMS WITH A.A.S.H.T.O. SPECIFICATIONS 1985.
⑨ ALL POSTS, POST STUBS & ATTACHMENTS SHALL BE A.S.T.M. A709 GRADE 50, GALVANIZED IN ACCORDANCE WITH ASTM A123.
THE POST, BASE PLATES, UPPER SIX INCHES OF STUB POST FLANGE SPLICE PLATE AND FUSE PLATE SHALL BE GALVANIZED AFTER FABRICATION.
FURNISH STEEL BOLTS, NUTS, AND WASHERS IN ACCORDANCE WITH SECTION 635 OF THE STANDARD SPECIFICATIONS.

BOLTING PROCEDURE - BASE CONNECTION

1. ASSEMBLE SIGN POST TO STUB POST WITH BOLTS AND ONE OF THE FLAT WASHERS ON EACH BOLT BETW. PLATES.
2. SHIM AS REQ'D. TO PLUMB POST.
3. PRIOR TO BOLT TIGHTENING LUBRICATE BASE CONNECTION BOLTS WITH BEESWAX OR OTHER HIGH-WAX LUBRICANT.
4. TIGHTEN ALL BOLTS THE MAXIMUM POSSIBLE WITH 12" OR 15" WRENCH TO BED WASHERS & SHIMS AND TO CLEAN BOLT THREADS, THEN LOOSEN EACH BOLT IN TURN AND RETIGHTEN IN A SYSTEMATIC ORDER TO THE PRESCRIBED TORQUE. (SEE TABLE)
5. BURR THREADS AT JUNCTION WITH NUT USING A CENTER PUNCH TO PREVENT NUT LOOSENING.

NOTE:
TIGHTEN THE HIGH STRENGTH BOLTS TO THE TORQUE SHOWN. DO NOT OVERTIGHTEN.



POST SLOT ORIENTATION ⑦

L	X	TYPE	DIMENSION / POST SIZE	BASE CONNECTION DATA TABLE: BOLT SIZE & TORQUE	A	B	C	D	E	T_1	T_4	W_1	R	S	FOUNDATION DATA: STUB LENGTH	STUB PROJECTION	SHAFT DIAMETER	SHAFT LENGTH	② K
3 ¾	④	A	W10"X12.0 #/FT.	¾" ϕ @ 75#-FT.	5¼"	1'-0⅜"	⅞"	3½"	⅞"	1"	3/16"	5/16"	13/32"	2⅛"	3'-6	3"	2'-0 ϕ	5'-0	76.0# ④
4 ¾	④	B	W12"X16.0 #/FT.	⅞" ϕ @ 85#-FT.	5½"	1'-4¼"	1"	3½"	1"	1¼"	¼"	5/16"	13/32"	3"	5'-6	3"	2'-0 ϕ	7'-0	146.5# ④
5		C	W12"X19.0 #/FT.	⅞" ϕ @ 85#-FT.	5½"	1'-4¼"	1"	3½"	1"	1½"	5/16"	5/16"	13/32"	3"	6'-0	3"	2'-0 ϕ	7'-6	182.1#
5		D	W12"X22.0 #/FT.	⅞" ϕ @ 85#-FT.	5½"	1'-4¼"	1"	3½"	1"	1½"	⅜"	5/16"	13/32"	3"	6'-6	3"	2'-0 ϕ	8'-0	210.5#
5	③	E	W12"X26.0 #/FT.	1" ϕ @ 90#-FT.	7"	1'-4¼"	1¼"	4"	1½"	1½"	⅜"	5/16"	11/32"	3"	7'-0	3"	2'-0 ϕ	8'-6	293.0# ③

① ⑥ ①

STRUCTURAL CARBON STEEL PAY WTS. (1 POST) = K+ (POST LENGTH X POST WT.)
" K " INCLUDES STUB, BASE PLATES, STIFFS., BOLTS, AND WASHERS.

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch for State Traffic Engineer

DATE 11/12/15 PLATE NO. A3-1.16

⑩	1-21-14	LUBRICATION OF BASE BOLTS
⑨	4-26-11	REMOVE NON-GALVANIZED
⑧	10-30-96	NOT GALVANIZED/GALVANIZED
⑦	10-30-92	QUANT., A588 EXCEPT., ADD SLOT VIEW
⑥	8-24-87	BASE CONN. WELD
⑤	10-13-81	BASE CONN. WELD & FUSE PL WASHERS
④	10-19-79	POST A & B, A572 GR. 50, & K
②	11-28-78	"K" ③ 4-23-79 TYPE "E"
①	5-4-78	T_1 , T_2 & W_1
NO.	DATE	REVISION

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS

TYPE A, B, C, D, & E

CONST. SPEC. 2011	DRAWN BY JPH	PLANS CK'D.

FTG. & SIGN SUPPORT DETAILS GROUND MOUNT BREAK-AWAY SIGNS

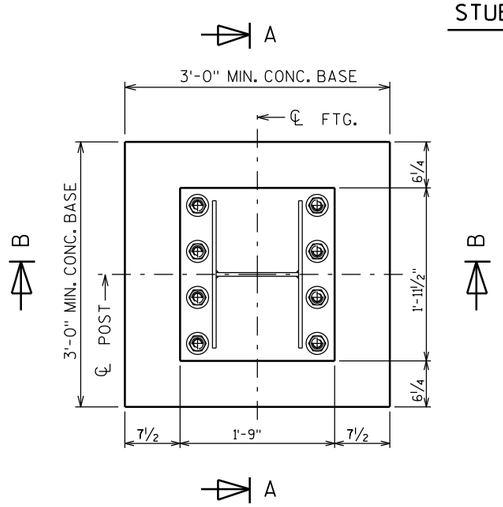
SHEET 404

PROJECT NO: | HWY: | COUNTY: | SHEET NO: E

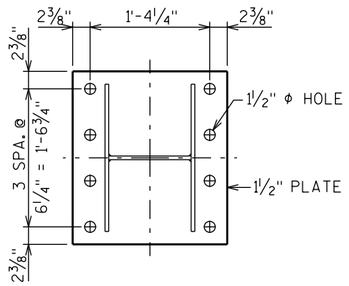
7

FILE NAME : C:\CAEfiles\Projects\tr_stdplate\A31.DGN PLOT DATE : 01-DEC-2015 18:20 PLOT BY : $$ plotuser $$ PLOT NAME : PLOT SCALE : 5.351066:1.000000

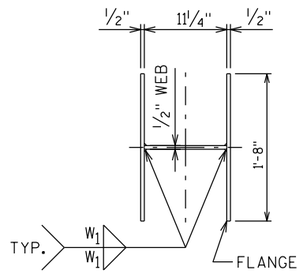
STUB AND MASONRY ANCHOR DETAILS



STUB SECTION



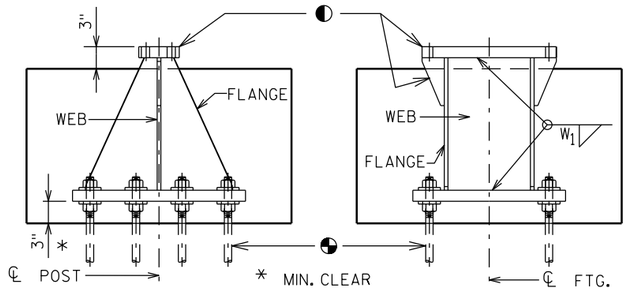
BASE PLATE



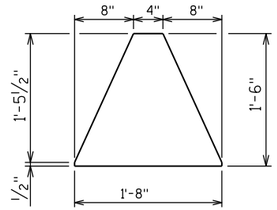
STUB

◐ SEE PLATE NO. A3-1 FOR DETAILS

◒ MASONRY ANCHORS TYPE S 1¼-INCHES (ADHESIVE). ALLOWABLE PULL OUT CAPACITY 14,995 KIPS. EMBED 1'-3" IN ROCK.



SECTION A SECTION B



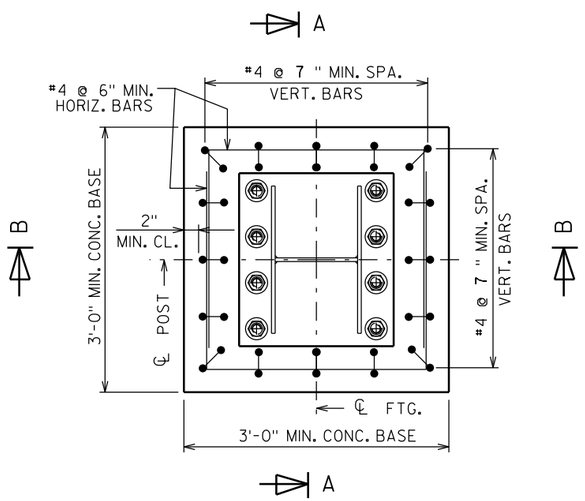
FLANGE

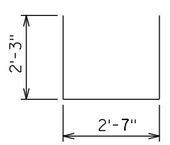
GENERAL NOTES

1. Quantities per Base:
   - REINFORCING BAR STEEL = 62 LBS
   - CONCRETE = 0.6 C.Y.
   - STEEL WEIGHT = 335 LBS
2. All materials, except anchor rod, nuts and washers, are to be A.S.T.M. A709 grade 50. All materials to be galvanized after fabrication.
3. If the contractor encounters rock before reaching the footing depth, per the A3-1 Sign Detail, determine the pull-out capacity of a test adhesive anchor installed in the rock. If the test result equals or exceeds the pull-out capacity of 14,995 KIPS, the contractor may install the breakaway stub for rock, according to this detail.

CONCRETE BASE AND REINFORCING STEEL DETAILS

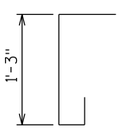
CONCRETE BASE SECTION





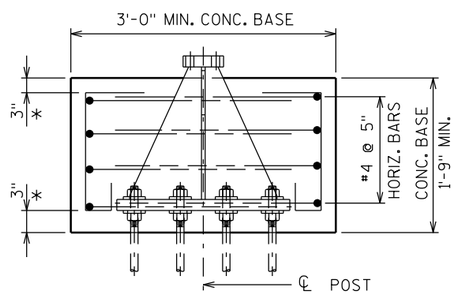
HORIZONTAL BAR

8 BARS @ 6'-11" LENGTH



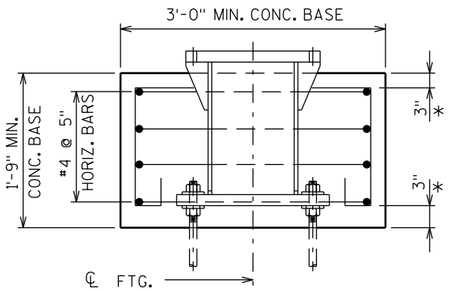
VERTICAL BARS

16 BARS @ 2'-4" LENGTH
MAY BE PLACED IN SKEW
FOR CLEARANCE NEED



SECTION A

* MIN. CLEAR



SECTION B

ALTERNATE BREAK-AWAY BASE ON ROCK
A3-1M

WISCONSIN DEPT OF TRANSPORTATION

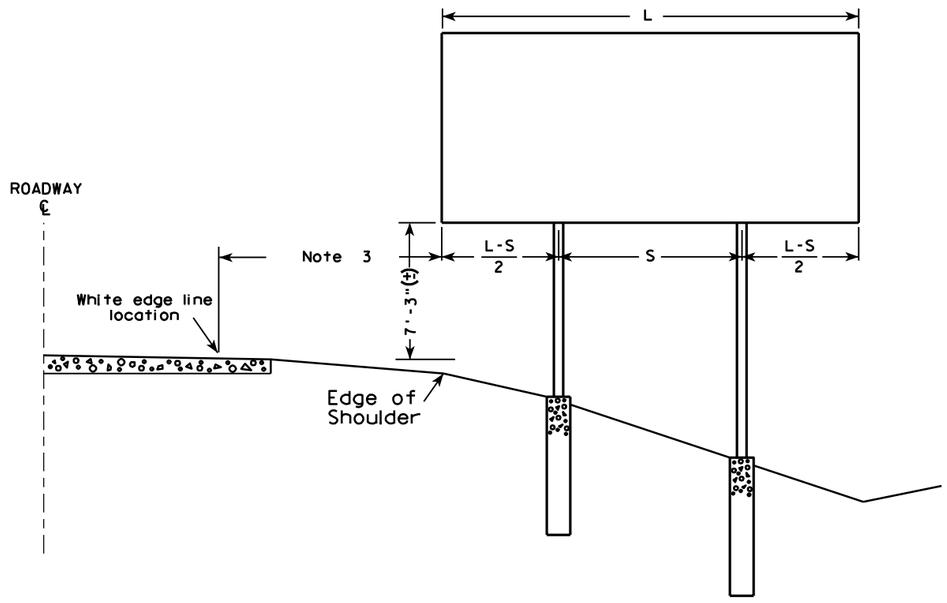
APPROVED Matthew R Rauch
for State Traffic Engineer

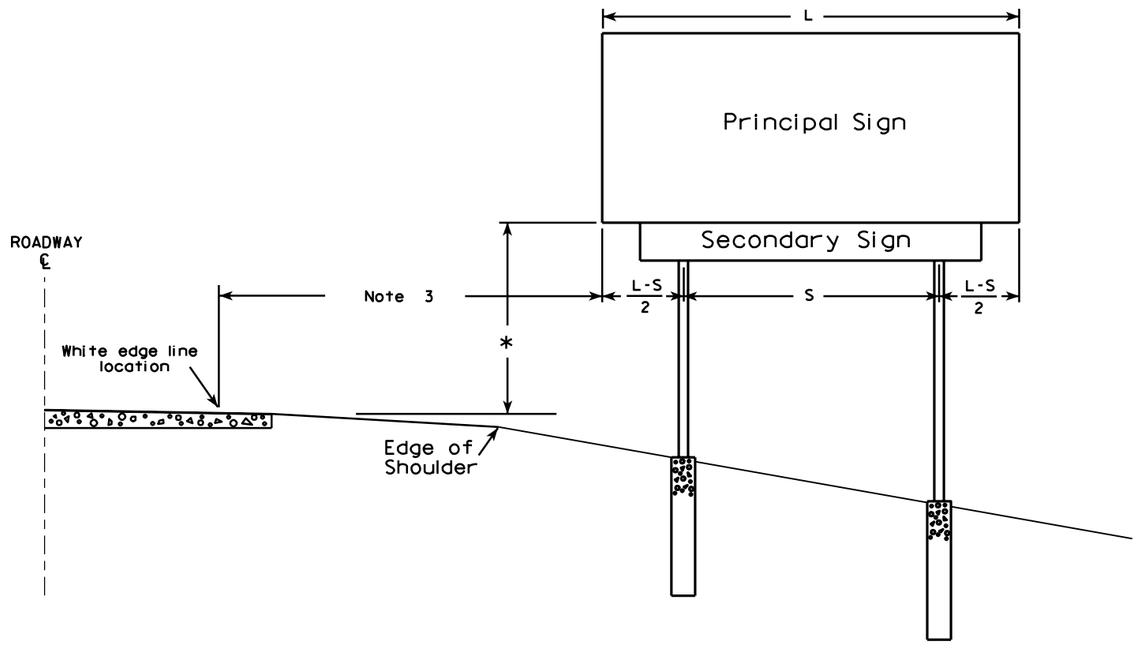
DATE 2/06/2014 PLATE A3-1M.1

PROJECT NO:	HWY:	COUNTY:		SHEET NO:	E

FILE NAME : C:\CAEfiles\Projects\tr_stdplate\A31M.DGN PLOT DATE : 10-MAR-2014 15:16 PLOT BY : mscj9h PLOT NAME : PLOT SCALE : 1.556674:1.000000

WISDOT/CADDS SHEET 42





GENERAL NOTES

1. For a 2 post installation, S equals 3L/5, but shall not be less than 9 ft.
2. For a 3 post installation, S equals 5L/7, but shall not be less than 18 ft., and the space between any two posts shall not be less than 9 ft.
3. Unless noted in the plan, the sign offset distance shall be a minimum of 17'-6", desirable 30'-0".
4. The (±) tolerance shown on this sheet is 3 in.
5. The vertical sign height clearance detailed is measured from the bottom of the sign to the near edge of pavement.
6. Post lengths shown in the miscellaneous quantities are estimated lengths. The contractor shall verify post lengths at the time of final grading.
7. Refer to the Traffic Guidelines Manual for further guidance on minimum vertical clearance requirements.

* Clearance is 8'-3"(±) when the secondary sign is 3 ft. or less in height. For secondary signs larger than 3 ft., the clearance to the bottom of the secondary sign shall be 5'-3"(±).

7

7

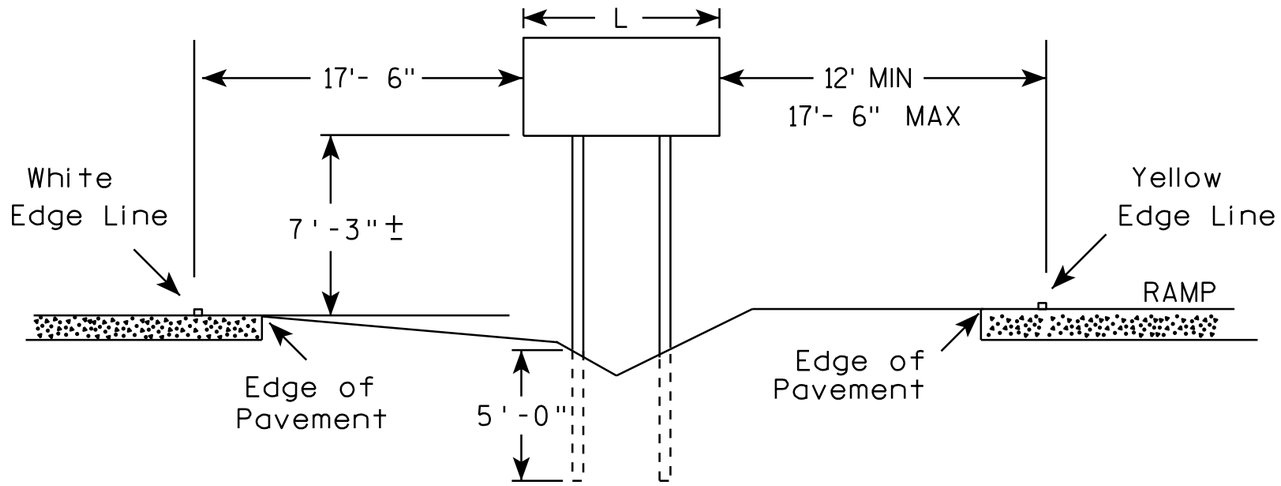
TYPICAL INSTALLATION
OF TYPE I SIGNS

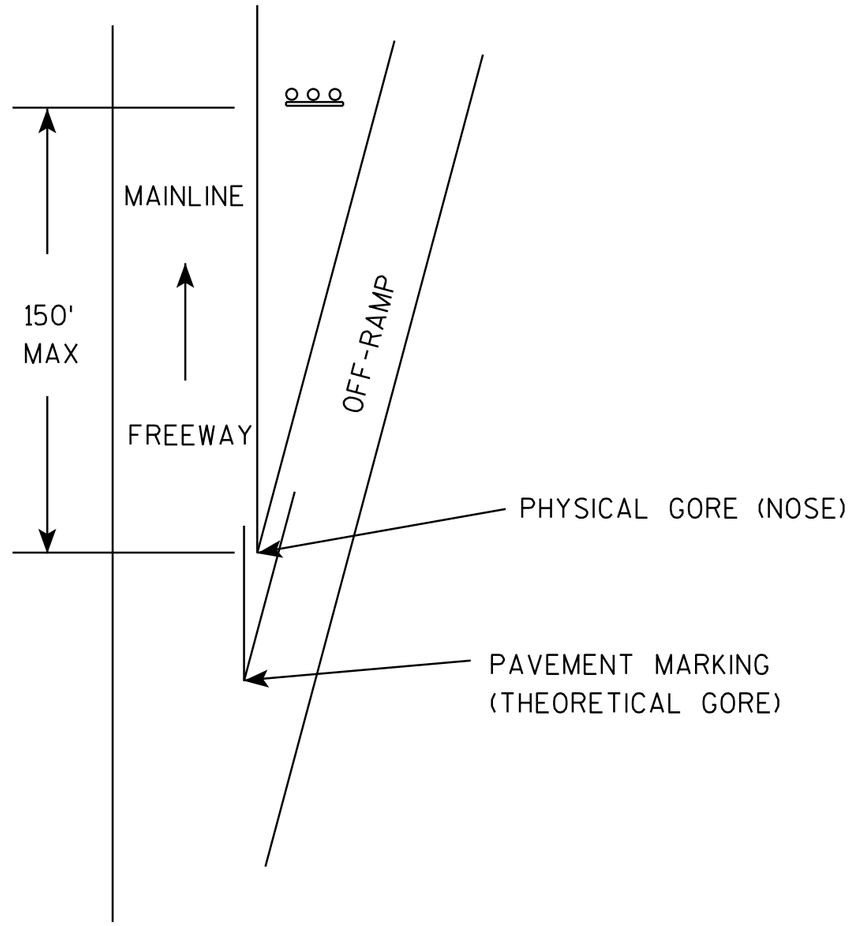
WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 4/02/08 PLATE NO. A4-1.9

PROJECT NO:				SHEET NO: 406	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 10 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

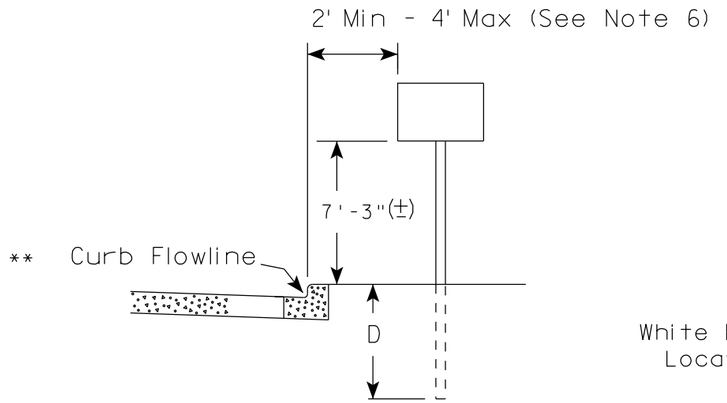
WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

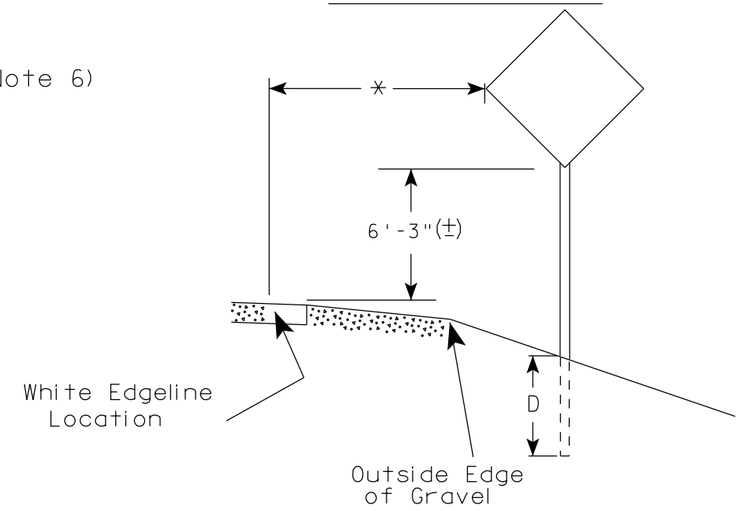
DATE 2/06/14 PLA 407 A4-2.3

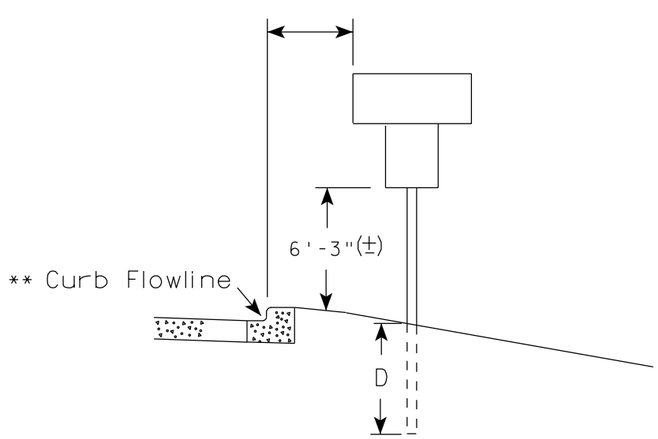
PROJECT NO: | SHEET NO: E

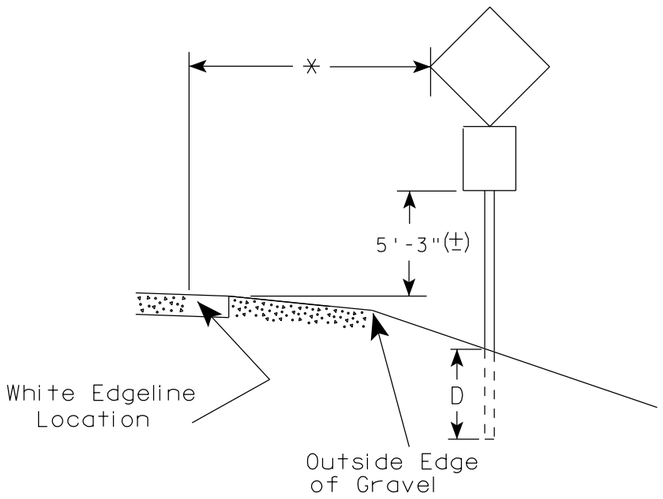
URBAN AREA



RURAL AREA (See Note 2)







** The existence of curb and gutter does not in itself mandate the vertical clearance illustrated. That height is typically measured where there is sidewalk adjacent to the roadway or parking is permitted. In the absence of sidewalk vertical clearance is measured from the top of the curb. Offset of signs is measured from the 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.

POST EMBEDMENT DEPTH

Area of Sign Installation (Sq.Ft.)	D (Min)
20 or Less	4'
Greater than 20	5'

GENERAL NOTES

1. Signs wider than 4 feet or 20 sq.ft or larger, shall be mounted on multiple posts. Refer to plate A4-4.
2. If signs are mounted on barrier wall, see A4-10 sign plate.
3. For expressways and freeways, mounting height is 7'- 3" (±) or 6'-3" (±) depending upon existence of a sub-sign.
4. Minimum mounting height for J assemblies (A2-1S) is 7'-3" (±) or 6'-3" (±) per urban or rural detail respectively.
5. Minimum mounting height for signs mounted on traffic signal poles is 5'- 3" (±).
6. Offset distance shall be consistent with existing signs or consistent throughout length of project.
7. The (±) tolerance for mounting height is 3 inches.
8. Folding signs shall be mounted at a height of 5'-3" (±) or as directd by the Engineer.
9. The Double Arrow sign (W12-1) shall be mounted at a height of 2'-3" (±). The Chevron sign (W1-8), Roundabout Chevron panel (R6-4B), Enhanced Reference Markers, Clearance Markers (W5-52), Mile Markers (D10 series), In Road Object Markers (W5-54) & End of Road Markers (W5-56) shall be mounted at a height of 4'-3" (±).

TYPICAL INSTALLATION OF PERMANENT TYPE II SIGNS ON SINGLE POSTS

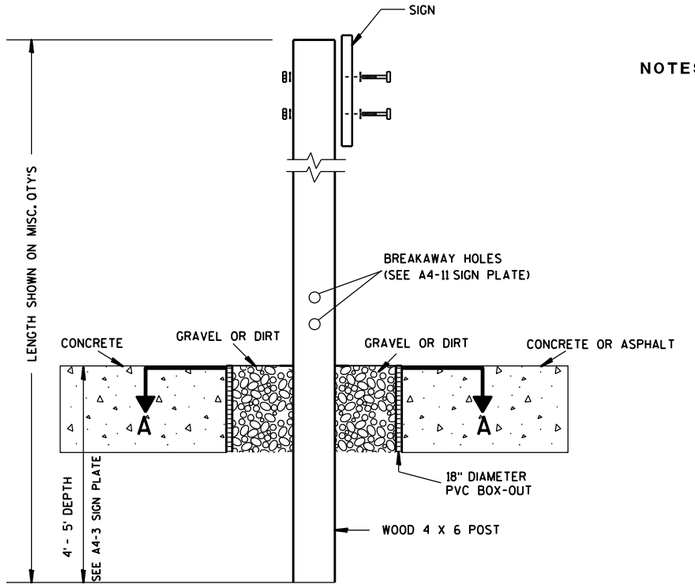
WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 7/23/15 PLATE NO. A4-3.20

PROJECT NO:	HWY:	COUNTY:		SHEET NO:	E

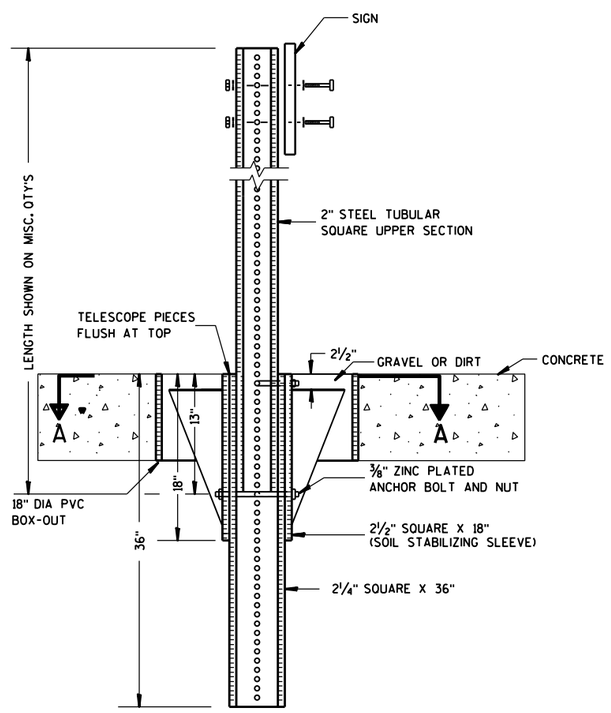
7



ELEVATION VIEW

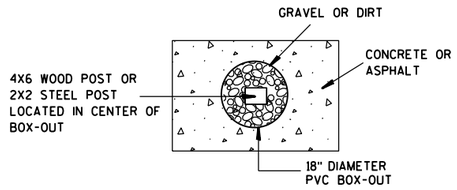
DETAIL OF WOOD 4 X 6 SIGN POST IN BOX-OUT

NOTES:
1. ALL MATERIAL TO BE APPROVED BY ENGINEER PRIOR TO INSTALLATION
2. SEE SIGN PLATE A4-8 FOR SIGN HARDWARE REQUIREMENTS
3. 18 INCH X 18 INCH SQUARE BOX-OUTS MAY BE USED FOR INSTALLATIONS IN EXISTING CONCRETE OR ASPHALT LOCATIONS.



ELEVATION VIEW

DETAIL OF STEEL 2 X 2 SIGN POST IN BOX-OUT



PLAN VIEW

FOR NEW CONCRETE/ASPHALT INSTALLATIONS

SIGN POST BOX-OUTS A4-3B

WISCONSIN DEPT OF TRANSPORTATION

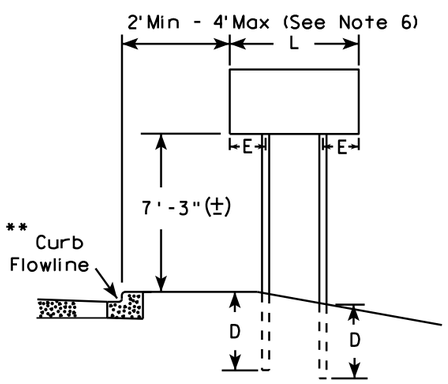
APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 1/27/14 PLATE NO. A4-3B.1

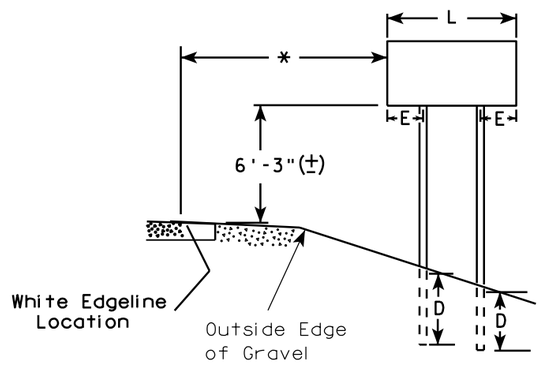
PROJECT NO:	HWY:	COUNTY:		SHEET NO:	E

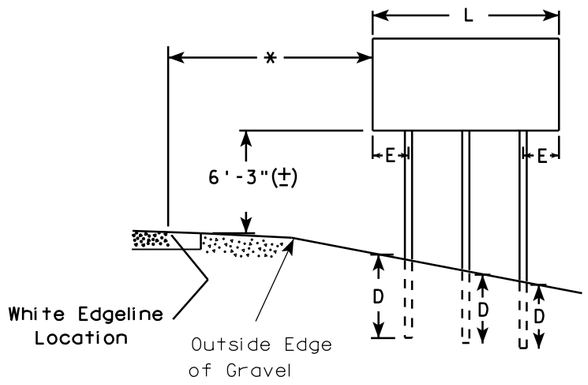
FILE NAME : C:\CAEFiles\Projects\tr_stdplate\A43B.DGN PLOT DATE : 27-JAN-2014 09:48 PLOT BY : mscsja PLOT NAME : PLOT SCALE : 13.659812:1.000000 WISDOT/CADDS SHEET 42

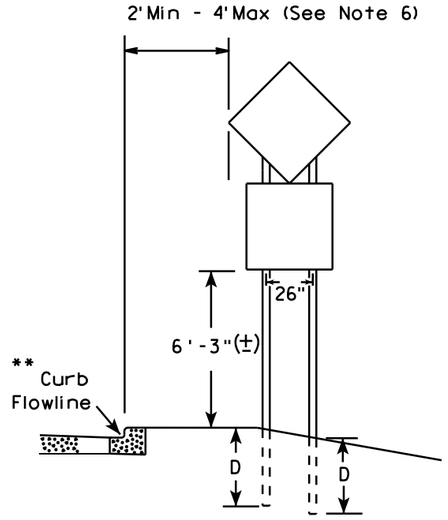
URBAN AREA



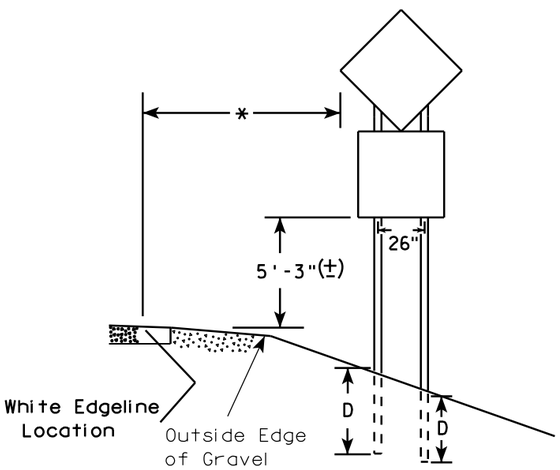
RURAL AREA (See Note 3)







48" DIAMOND WARNING SIGN



48" DIAMOND WARNING SIGN

***	SIGN SHAPE OTHER THAN DIAMOND (TWO POSTS REQUIRED)	
	L	E
	Greater than 48" Less than 60"	12"
	60" to 120"	L/5

SIGN SHAPE OTHER THAN DIAMOND (THREE POSTS REQUIRED)	
L	E
Greater than 120" less than 168"	12"

SIGN SHAPE OTHER THAN DIAMOND (FOUR POSTS REQUIRED)	
L	E
168" and greater	12"

GENERAL NOTES

1. For 3 or 4 post installations, individual post spacing shall be greater than 3'-6".
2. See tables below for required number of posts.
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 (A2-1S) 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 signs 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 (R6-4B), Clearance Markers (W5-52), Mile Markers (D10 series), In Road Object Markers (W5-54) & End of Road Markers (W5-56) 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 measured where there is sidewalk adjacent to the roadway or parking is permitted. In the absence of sidewalk vertical clearance is measured from the top of the curb. Offset of signs is measured from the flow line.

*** See A4-3 sign plate for signs 4' or less in width and less than 20 S.F. in area.

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

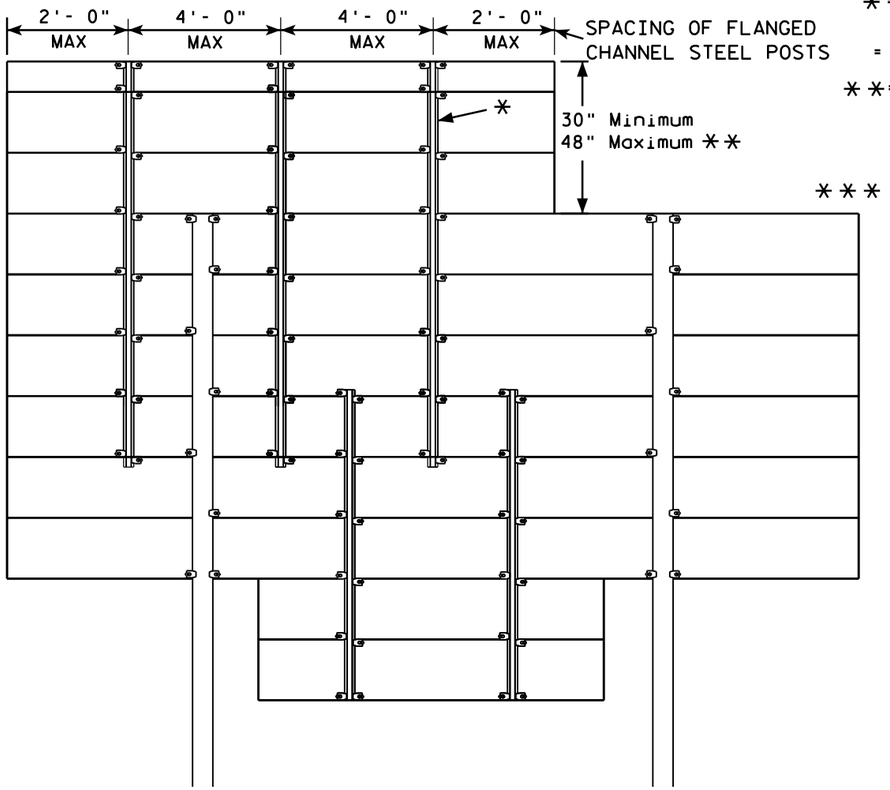
DATE 7/23/15 PLATE NO. A4-4 410 14

PROJECT NO:	HWY:	COUNTY:		SHEET NO:	E

FILE NAME : C:\CAEfiles\Projects\tr_stdplate\A44.DGN PLOT DATE : 23-JUL-2015 15:23 PLOT BY : mscj9h PLOT NAME : PLOT SCALE : 107.021305:1.000000

WISDOT/CADDS SHEET 42

GROUND MOUNTED SIGN

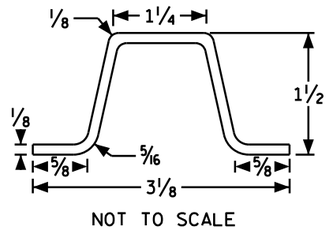


* =2.00 lb/ft FLANGED CHANNEL, MIN. YIELD STRENGTH = 60,000 PSI (GRADE 60) GALVANIZED

** =FOR 48" HEIGHT PANELS ON OVERHEAD STRUCTURES, ENTIRE SIGN SHALL BE CENTERED VERTICALLY ABOUT THE DEPTH OF THE TRUSS.

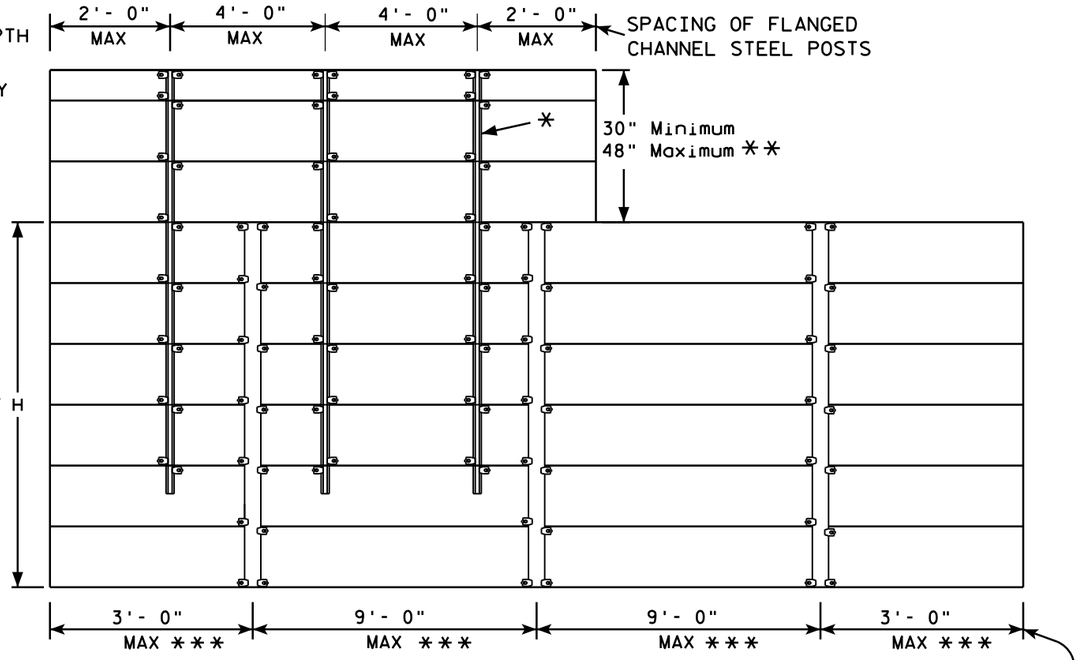
*** THESE SPACING DISTANCES SHALL ONLY BE USED WHEN THE MAIN SIGN HAS A MAXIMUM HEIGHT (DIMENSION H) OF 16 FT OR LESS. FOR SIGNS WITH A HEIGHT OF GREATER THAN 16 FT, STRUCTURAL CALCULATIONS SHALL BE PERFORMED.

FLANGE CHANNEL DETAIL



NOT TO SCALE

SIGN BRIDGE MOUNTED SIGN



GENERAL NOTES

1. Flanged channel steel posts shall conform to size and material above, and shall be considered as incidental to other items in the contract.
2. Number of Flanged channel steel supports varies with length of panel and shall be spaced as shown:

   PANEL LENGTH 8'-0" OR LESS = 2 CHANNELS
   PANEL LENGTH 9'- 0" - 12'- 0" = 3 CHANNELS
   PANEL LENGTH 13'- 0" OR MORE = 4 CHANNELS

   If the flanged channel steel posts can not be horizontally spaced as shown, they can be moved so as to securely hold the sign.
3. The EXIT NUMBER PANEL shall normally be positioned above the guide sign aligned with the right edge of the guide sign. If the guide sign indicates a left exit, the EXIT NUMBER PANEL shall be aligned with the left edge of the guide sign.
4. If the bolt holes in the top panel (EXIT NUMBER), or sub panel (NEXT EXIT) line up with holes in main sign panel, stitch bolts shall be used in addition to the channels.
5. Provide post clips for each sign as shown. (Please note the differences between a ground mounted versus Sign bridge mounted sign as far as number of clips required on the main supports or beams)
6. Structural steel sign supports shall extend to the top of the main signs, as shown on the above details.

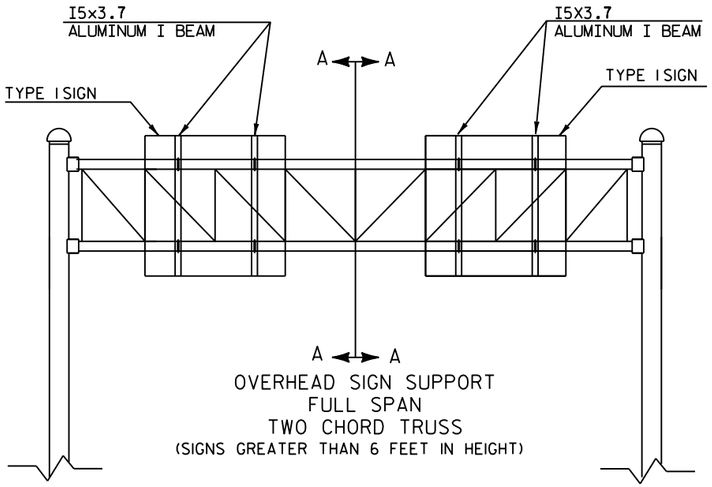
ATTACHMENT OF GUIDE SIGNS TO SUPPORTS

WISCONSIN DEPT OF TRANSPORTATION

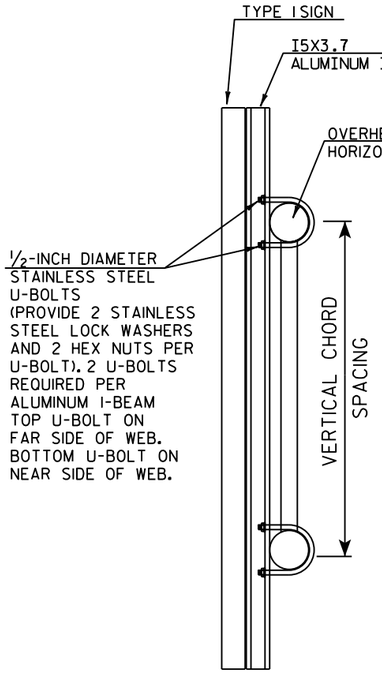
APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 12/05/13 PLAT 411 A4-6.12

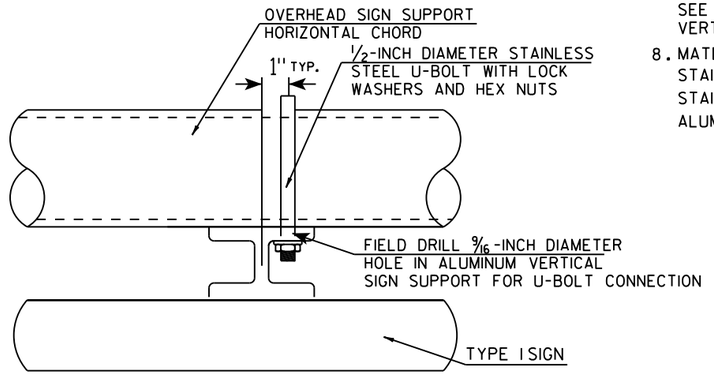
PROJECT NO: | SHEET NO: E



OVERHEAD SIGN SUPPORT
FULL SPAN
TWO CHORD TRUSS
(SIGNS GREATER THAN 6 FEET IN HEIGHT)



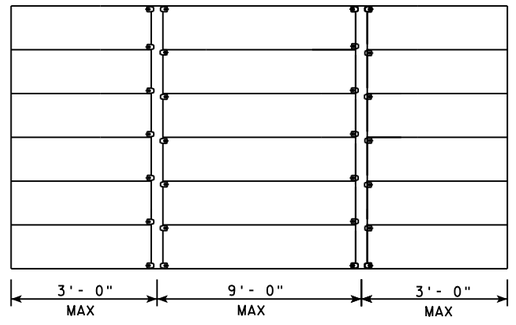
CUT SECTION A-A



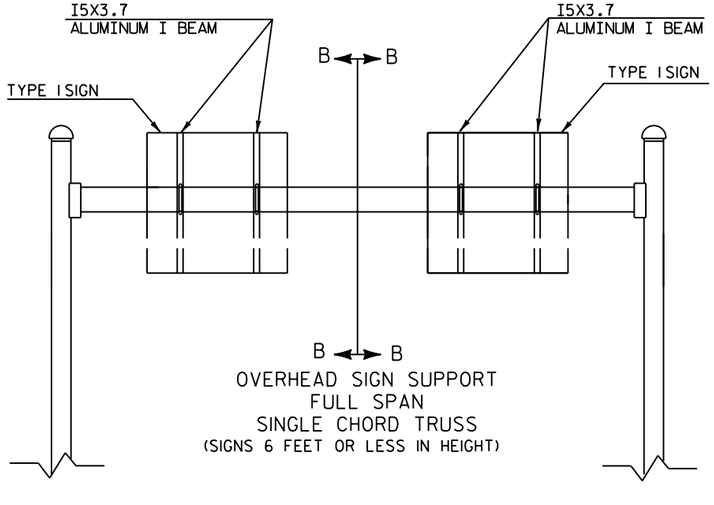
TYPICAL SIGN CONNECTION FOR
TWO CHORD TRUSS
PLAN VIEW

GENERAL NOTES

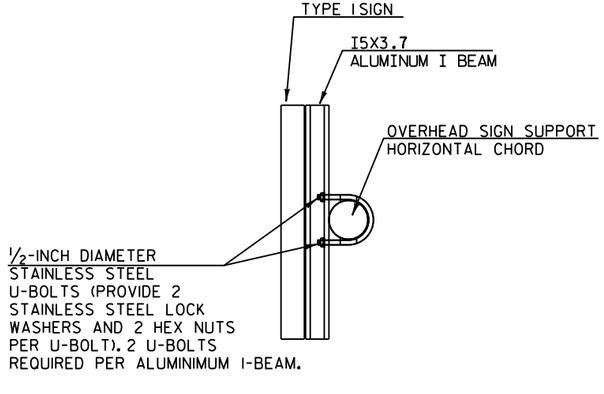
1. USE STAINLESS STEEL U-BOLTS, WASHERS, AND NUTS.
2. USE CLIPS ON EVERY EXTRUDED PANEL JOINT PER SIGN PLATE A4-6.
3. USE ALUMINUM VERTICAL SIGN SUPPORT BEAMS HAVING A 5 INCH BEAM DEPTH AND WEIGHT OF 3.7 LBS PER FOOT.
4. U-BOLTS SHALL BE STAINLESS STEEL AND MANUFACTURED TO THE PROPER SIZE TO FIT THE CHORDS OF THE OVERHEAD SIGN STRUCTURE.
5. DIAMETER OF U-BOLTS SHALL BE AS SHOWN.
6. THE LENGTH OF THE ALUMINUM VERTICAL SIGN SUPPORT BEAMS SHALL BE THE SAME AS THE HEIGHT OF THE SIGN THEY ARE SUPPORTING. BEAM LENGTHS MAY BE LONGER FOR PROPER ATTACHMENT TO CHORDS.
7. MINIMUM NUMBER OF BRACKETS PER SIGN IS TWO. SEE DETAIL BELOW FOR SPACING OF ALUMINUM VERTICAL SIGN SUPPORTS
8. MATERIAL NOTES:
   STAINLESS STEEL U-BOLTS AND LOCKWASHERS ASTM 304.
   STAINLESS STEEL HEX NUTS ASTM A276.
   ALUMINUM I-BEAMS ARE 6061-T6.



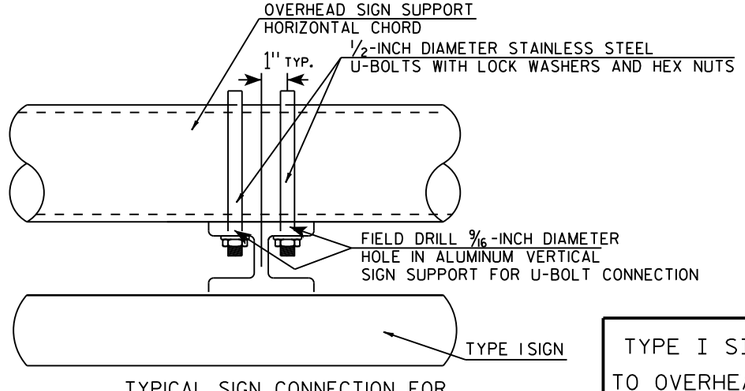
SPACING OF I5X3.7 ALUMINUM
VERTICAL SIGN SUPPORT



OVERHEAD SIGN SUPPORT
FULL SPAN
SINGLE CHORD TRUSS
(SIGNS 6 FEET OR LESS IN HEIGHT)



CUT SECTION B-B



TYPICAL SIGN CONNECTION FOR
SINGLE CHORD TRUSS
PLAN VIEW

TYPE I SIGN CONNECTION TO OVERHEAD SIGN SUPPORT

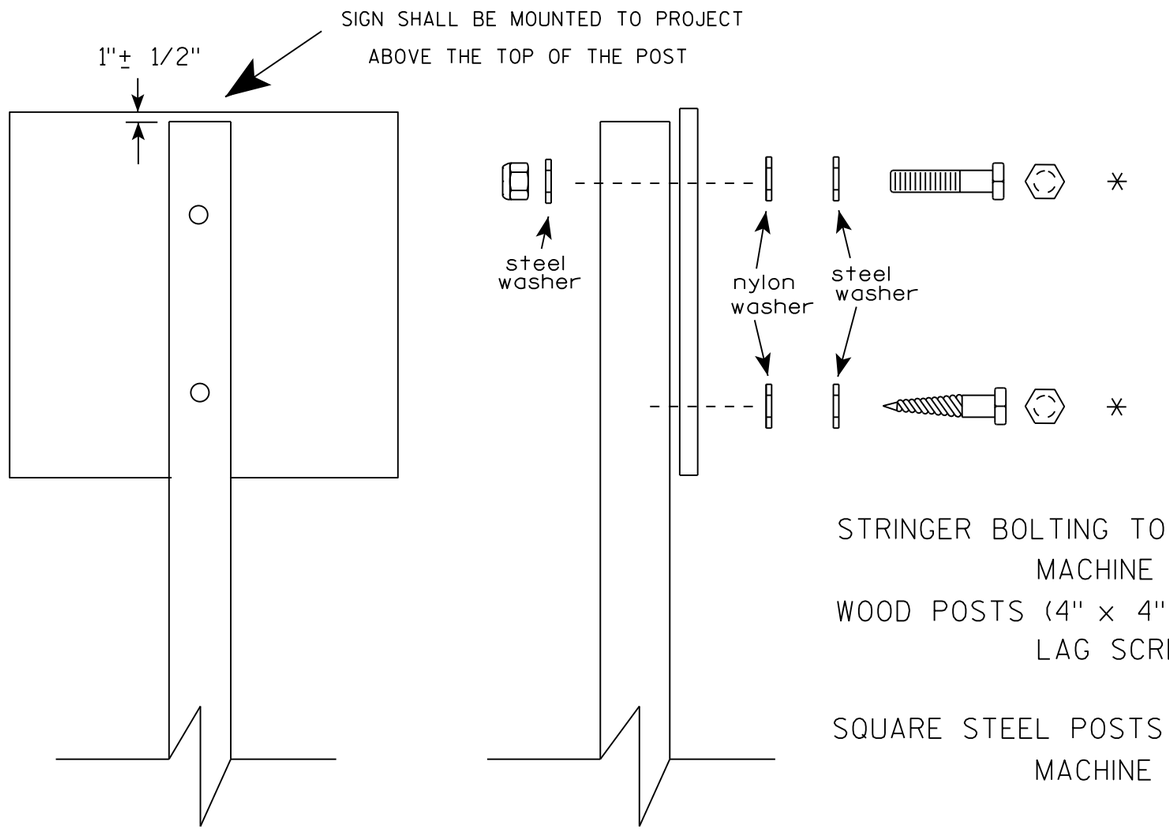
WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 11/10/15 PLATE NO. A4-7.4

PROJECT NO:	HWY:	COUNTY:		SHEET NO:	E

FILE NAME : C:\CAEfiles\Projects\tr_stdplate\A47.DGN PLOT DATE : 01-DEC-2015 17:42 PLOT BY : $$ plotuser $$ PLOT NAME : PLOT SCALE : 38.916838:1.000000



Nuts, bolts and lags used for mounting signs shall have hexagonal heads and shall be either :

a. Hot dip galvanized in accordance with ASTM Designation: A 153, Class D, or SC 3

b. 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.

STRINGER BOLTING TO ALUMINUM SIGNS (SEE SIGN PLATE A4-18)

MACHINE BOLTS - 5/16" X 1-3/4" Length w/ lock nuts

WOOD POSTS (4" x 4" or 4" x 6")

LAG SCREWS - 3/8" X 3" (NO STRINGERS ON BACK OF SIGN)

3/8" X 4" (STRINGERS ON BACK OF SIGN)

SQUARE STEEL POSTS (2" x 2")

MACHINE BOLTS - 3/8" X 3-1/4" Length w/ nuts (NO STRINGER ON BACK OF SIGN)

3/8" X 5" Length w/ nuts (STRINGERS ON BACK OF SIGN)

RIVETS - 9/32 " (6605-9-6) BULB-TITE, TRI-FOLD, ALUMINUM BODY/MANDREL O.D. FLANGE .720-.765 INCH, GRIP RANGE .042-.375 INCH

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

* 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

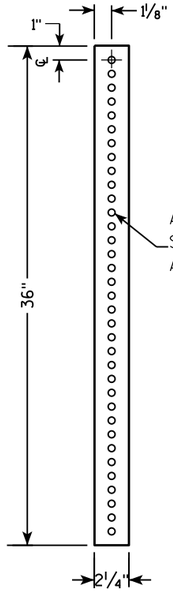
DATE 8/11/16 PLATE NO. A4-8.8

PROJECT NO: SHEET NO: E

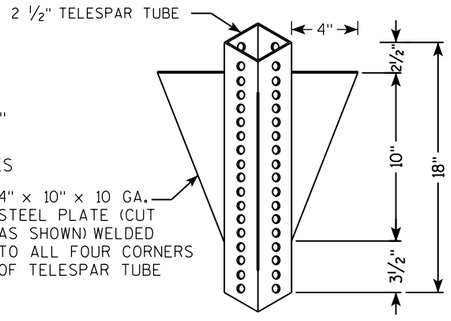
FILE NAME : C:\CADfiles\Projects\tr_stdplate\A48.DGN PLOT DATE : 11-AUG-2016 11:35 PLOT BY : $$ plotuser $$

TELESCOPIC TUBING ANCHORS
TWO PIECE SYSTEM

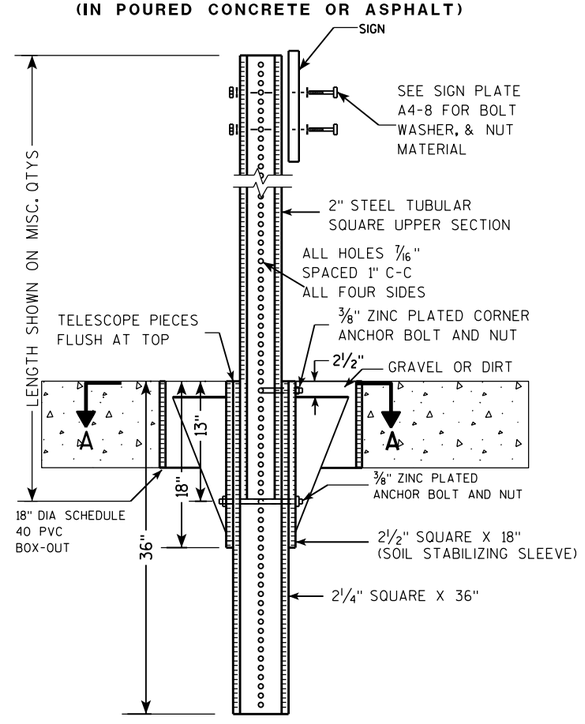
2 1/4 " SQUARE
12 GAUGE
PERFORATED
GALVANIZED FINISH



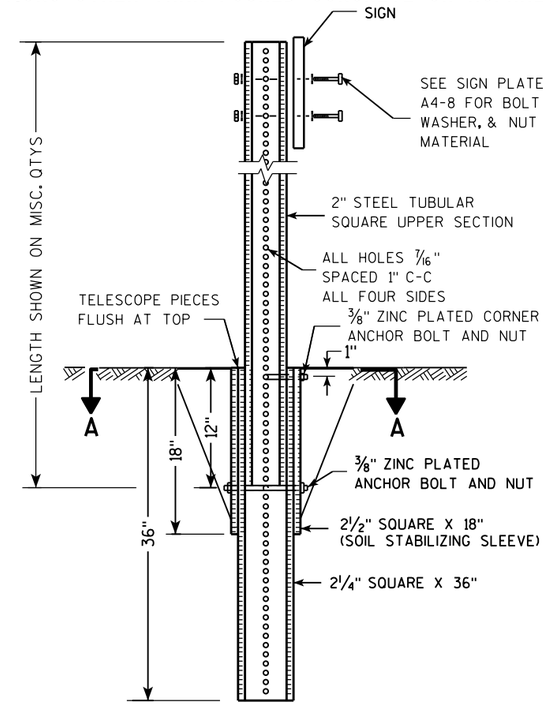
2 1/2 " SQUARE
12 GAUGE
OMNI-DIRECTIONAL
PERFORATED
SOIL STABILIZING SLEEVE
GALVANIZED FINISH

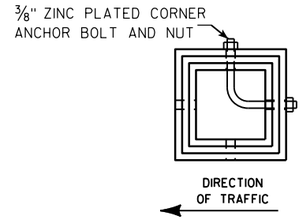


DETAIL OF TUBULAR STEEL SIGN POST
(IN POURED CONCRETE OR ASPHALT)



DETAIL OF TUBULAR STEEL SIGN POST
(IN LOCATIONS OTHER THAN POURED CONCRETE OR ASPHALT)





SECTION A-A

Area of Sign Installation (Sq. Ft.)	Number of Required Posts
9 or less	1
Greater than 9 less than or equal to 18	2
Greater than 18 less than or equal to 27	3

Signs wider than 3 feet or larger than 9 sq. ft shall be mounted on multiple posts (see above table).

TUBULAR STEEL
SIGN POST
A4-9

WISCONSIN DEPT OF TRANSPORTATION

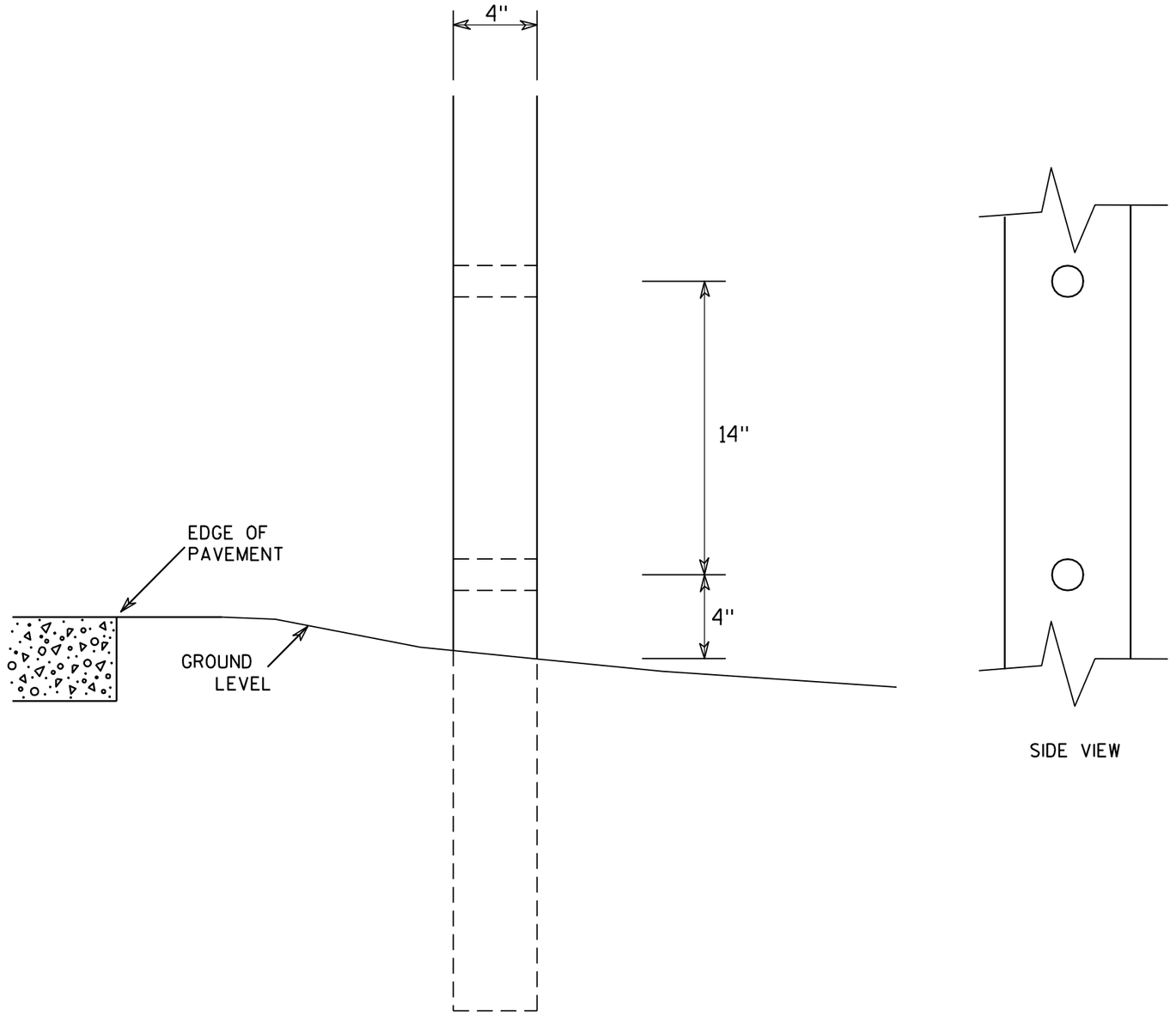
APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 2/05/15 PLATE 414 A4-9.9

PROJECT NO:	HWY:	COUNTY:		SHEET NO:	E

FILE NAME : C:\CAEFiles\Projects\tr_stdplate\A49.DGN PLOT DATE : 05-FEB-2015 17:09 PLOT BY : mscsja PLOT NAME : PLOT SCALE : 13.659812:1.000000

WISDOT/CADDS SHEET 42



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

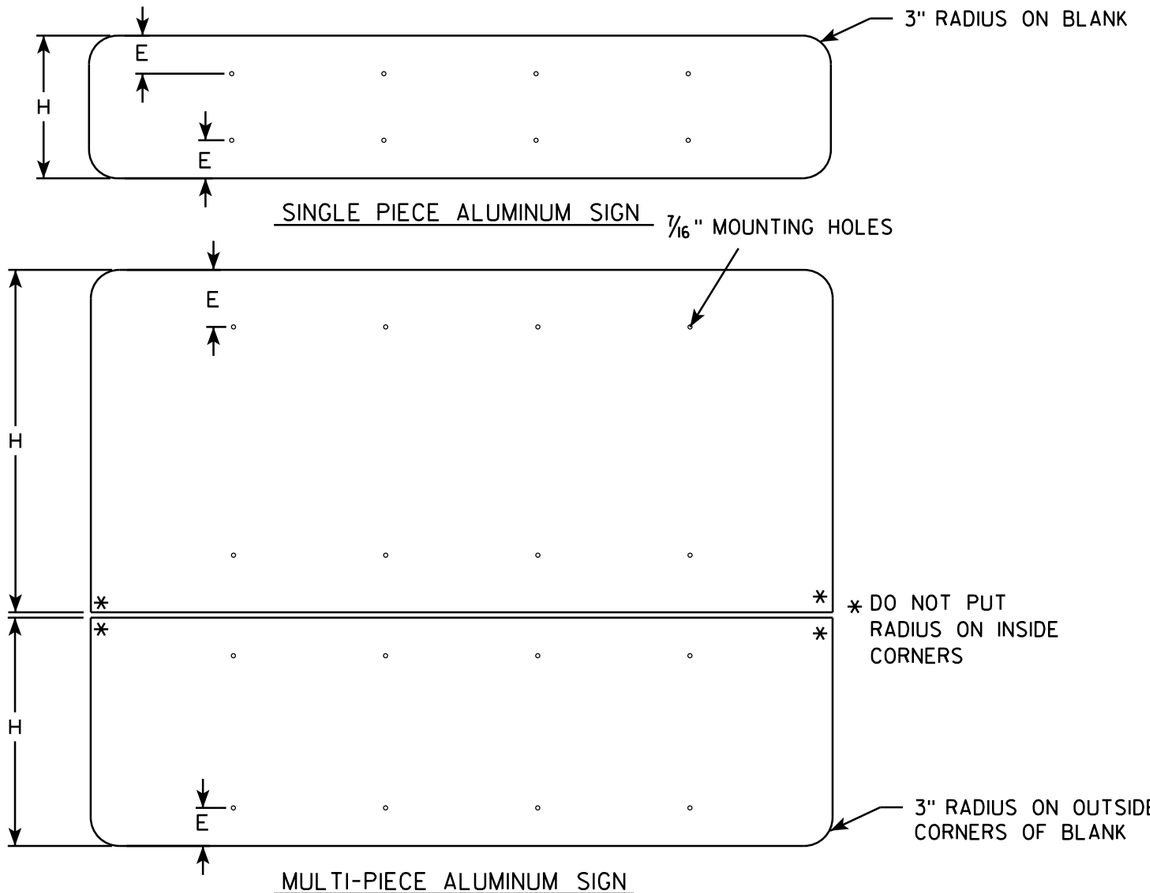
4 X 6 WOOD POST MODIFICATIONS

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Chester J Spang for State Traffic Engineer

DATE 3/27/97 PLATE NO. A4-11.2

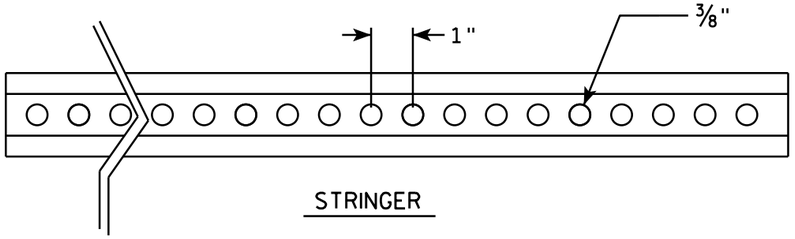
PROJECT NO:	HWY:	COUNTY:		SHEET NO: 415	E



GENERAL NOTES

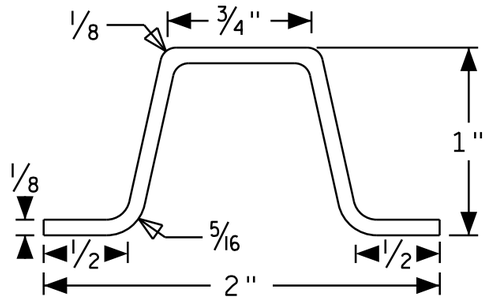
- ALL SIGNS OVER 60" IN WIDTH SHALL HAVE A 3" RADIUS ON THE OUTSIDE CORNERS OF THE ALUMINUM BLANK.
- MOUNTING HOLES SHALL BE 7/16" DIAMETER.
- SEE CHART FOR HOLE SPACING REQUIREMENTS
- FOR SIGN PANELS WITH DIMENSION (H) 36" AND OVER, DIMENSION E SHALL BE 6"
- FOR SIGN PANELS WITH DIMENSION (H) UNDER 36", DIMENSION E SHALL BE 4"
- SIGN STRINGER MATERIAL SHALL CONSIST OF STEEL CHANNEL POST SECTIONS, WEIGHING 1.12 LBS/FT IN ACCORDANCE WITH SECTION 633.2.1 OF THE STANDARD SPECIFICATIONS FOR HIGHWAY AND STRUCTURE CONSTRUCTION.
- SEE SIGN PLATE A4-8 FOR SIGN STRINGER BOLTING REQUIREMENTS.

SIGN WIDTH	STRINGER WIDTH	POSTS	HOLE SPACING	MOUNTING HOLES
78"	72"	2	16"	15" 31" 47" 63"
84"	72"	2	17"	16½" 33½" 50½" 67½"
90"	72"	2	18"	18" 36" 54" 72"
96"	90"	2	19"	19½" 38½" 57½" 76½"
102"	90"	2	20"	21" 41" 61" 81"
108"	90"	2	21"	22½" 43½" 64½" 85½"
114"	108"	3	15"	12" 27" 42" 57" 72" 87" 102"
120"	108"	3	16"	12" 28" 44" 60" 76" 92" 108"
126"	108"	3	17"	12" 29" 46" 63" 80" 97" 114"
132"	126"	3	18"	12" 30" 48" 66" 84" 102" 120"
138"	126"	3	19"	12" 31" 50" 69" 88" 107" 126"
144"	126"	3	20"	12" 32" 52" 72" 92" 112" 132"

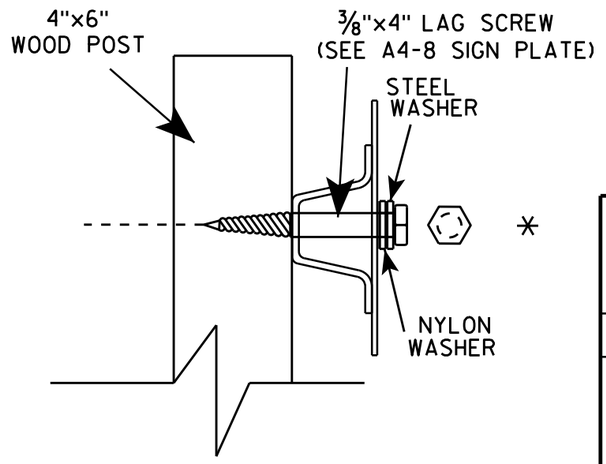


STRINGER

CROSS SECTION VIEW OF CHANNEL



POST MOUNTING



SIGN STRINGER MOUNTING REQUIREMENTS

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch

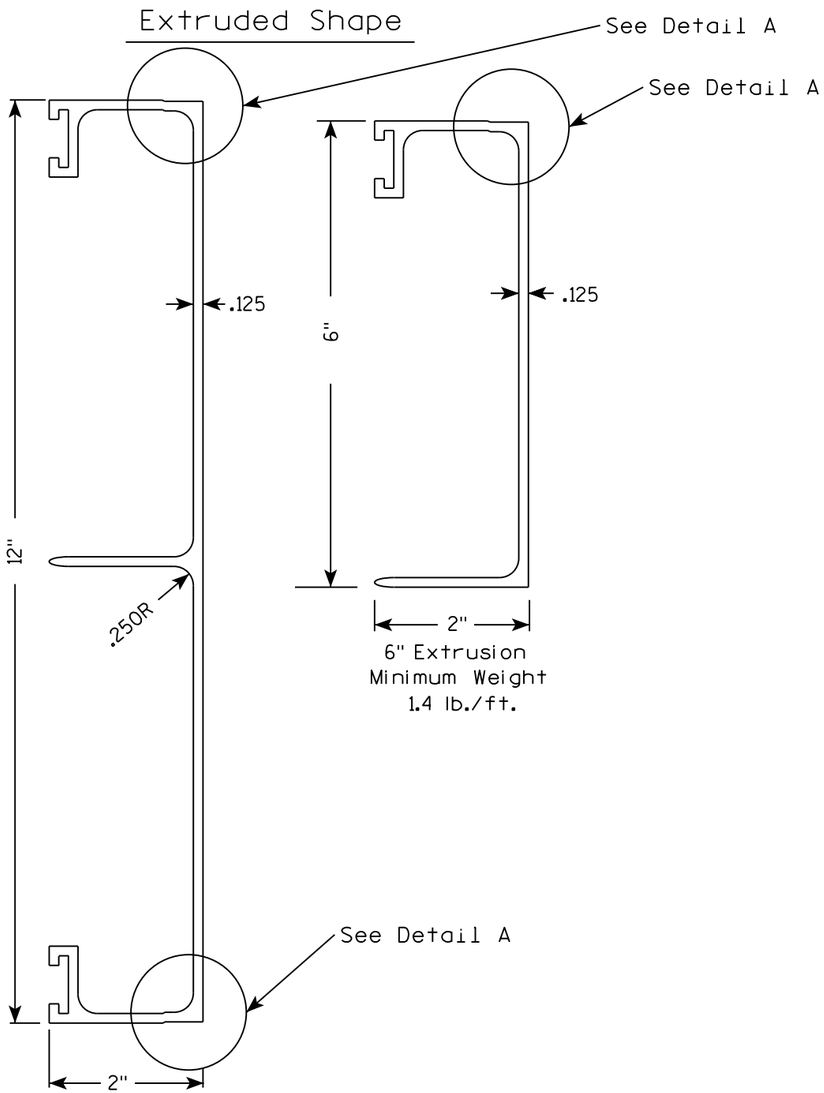
for State Traffic Engineer

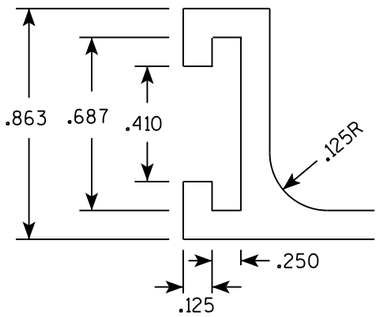
DATE 4/26/16 PLATE NO A4-18.1

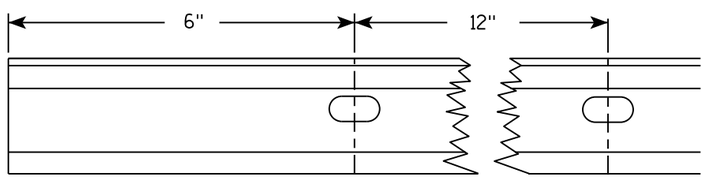
PROJECT NO:	HWY:	COUNTY:		SHEET NO:	E

FILE NAME : C:\CAEfiles\Projects\tr_stdplate\A418.dgn PLOT DATE : 27-APR-2016 13:56 PLOT BY : mscj9h PLOT NAME : PLOT SCALE : 41.805205:1.000000 WISDOT/CADDS SHEET 42

Extruded Shape







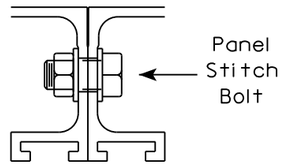
Punch 7/16" x 7/8" oval holes beginning 6" in from end of extrusion 12" CC on both edges of 6" and 12" panels.

Hardware

STITCH BOLT, WASHER & NUT

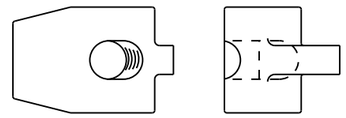
The hardware includes:

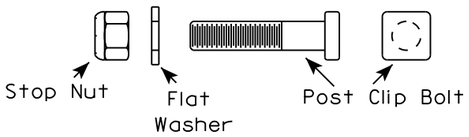
3/8 " - 16 X 3/4 " Economy Bolt 2024-T4 alloy
3/8 " - Stainless steel stop nut
3/8" X .064 Flat Washers, Alclad 2024-T4 alloy



POST CLIP, POST CLIP BOLT, WASHER & NUT

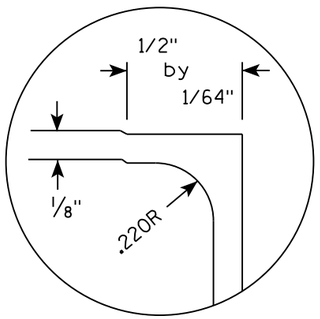
Post Clip shall be Alum. Alloy 356-T6
Post Clip Bolt shall be Stainless Steel.
Flat washer shall be 3/8" X .091, Stainless Steel.
Stop nut shall be stainless steel.





NOTES

1. The contractor may select any brand of extrusion that conforms to the illustrations or meets with the approval of the engineer, but all extrusions used on this contract shall be of the same brand.
2. Panel Stitch Bolts shall be used to assemble adjacent panels. Maximum stitch bolt spacing shall be 24" C-C, and a minimum of 4 bolts shall be used to connect any two extrusions.
3. Post Clips shall be used to attach the sign panel to the sign support.
4. Edge wrapping of sign sheeting required on all extrusions joints shown in Detail A.



DETAIL A (EDGE WRAP JOINT)

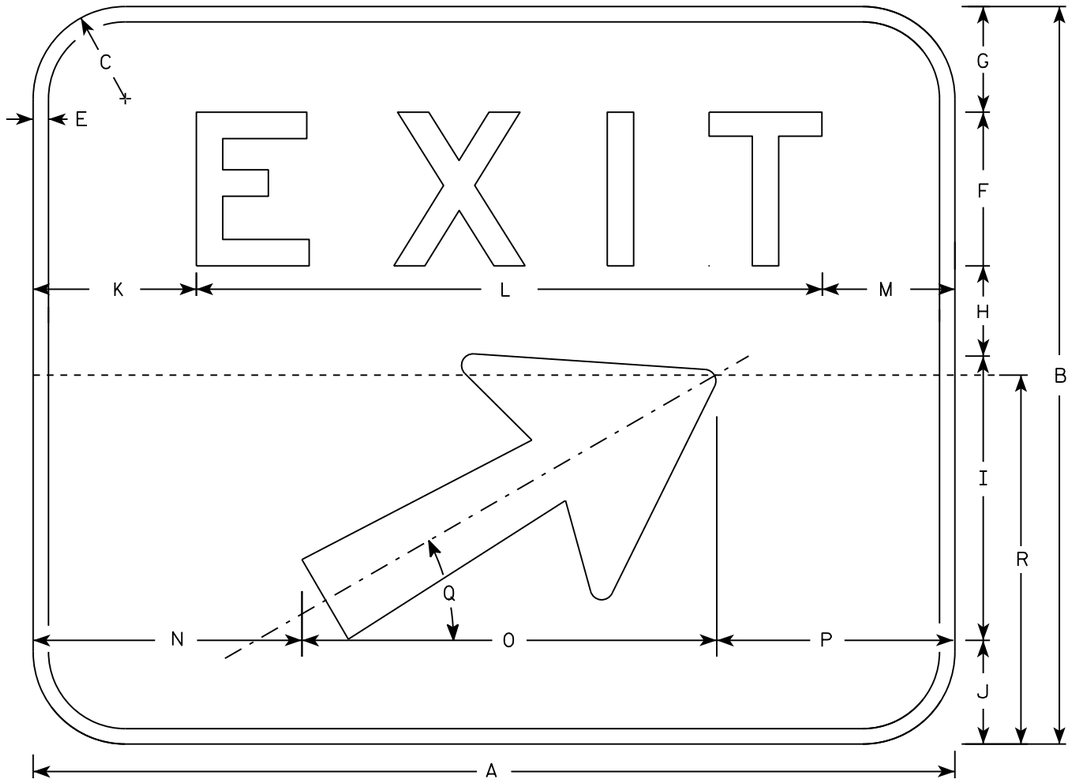
ALUMINUM EXTRUSIONS FOR TYPE I SIGNS

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 11/30/16 PLATE NO. A5-2.10

PROJECT NO:				SHEET NO: 417	E



E5-1

NOTES

1. Sign is Type II - Type H reflective
2. Color:
   Background - Green
   Message - White
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. When Base material for this sign is plywood sign 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.

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.
1																											
2																											
3																											
4	60	48	6		1	10	6 7/8	5 7/8	18 1/2	6 3/4	10 5/8	40 3/4	8 5/8	17 1/2	27	15 1/2	30°	30									20.0
5	72	60	6		1	12	9 3/4	10	18 1/2	9 3/4	13 1/4	48 1/2	10 1/4	23 1/2	27	21 1/2	30°	30									30.0

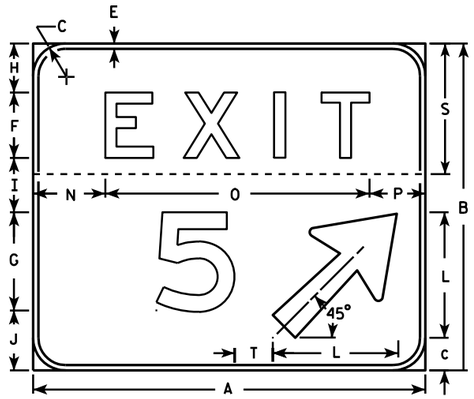
STANDARD SIGN
E5 - 1

WISCONSIN DEPT OF TRANSPORTATION

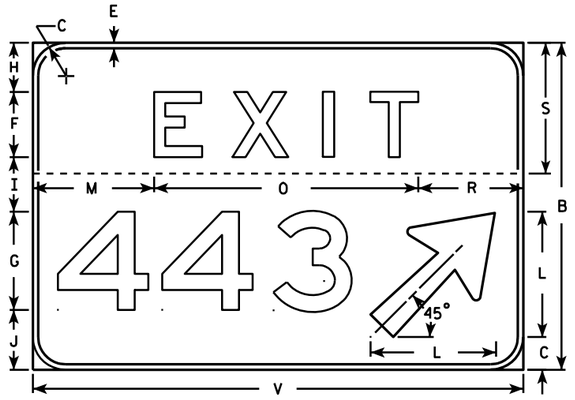
APPROVED Matthew R Rauch
for State Traffic Engineer

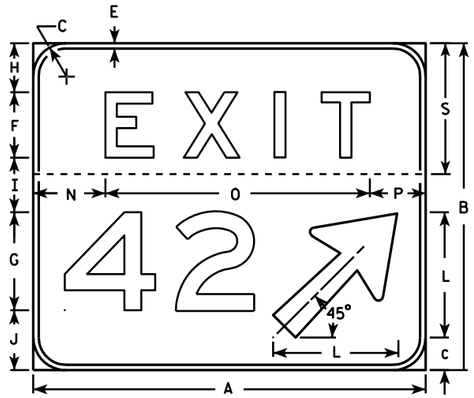
DATE 3/21/17 PLATE NO. E5-1.9

PROJECT NO:	HWY:	COUNTY:		SHEET NO: 418	E



NOTE: T diminision shall be measured from the back of the number to the front of the arrow





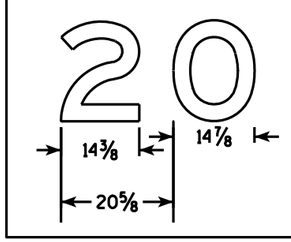
NOTES

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 the border shall be rounded as shown.
5. Base material for this sign shall be plywood and shall be split into two seperate pieces as shown on each detail by the dashed line (----------).
6. Arrow is Type "A" from sign plate A1-1.
7. Substitute appropriate message, space per the table and adjust placement on sign to achieve proper balance.
8. As per the Standard Spec's, these signs shall not have a vertical joint.

SPACING CHART FOR 18" NUMERALS

NUMBERS	WIDTH	0	1	2	3	4	5	6	7	8	9	A	B	C
0	14 7/8	21 5/8	21 5/8	21 1/4	20 3/8	21 1/4	21 1/4	21 5/8	19 7/8	22 1/8	21 5/8			
1	5 7/8	14	14	14	13 1/8	12 1/8	14	14	12 1/4	14	14			
2	14 3/8	20 5/8	21 1/8	20 5/8	19 3/4	20 1/4	20 5/8	20 5/8	18 7/8	21 1/8	20 5/8			
3	14 3/8	20 3/4	21 1/8	20 3/4	20 1/4	19 3/4	20 3/4	20 3/4	19 3/8	21 1/8	20 3/4			
4	16 5/8	22 7/8	22	22 1/2	21 5/8	21 5/8	22 7/8	22 7/8	20 5/8	23 3/8	22 7/8			
5	14 1/4	20 5/8	20 5/8	20 1/8	18 3/4	18 3/4	20 5/8	20 5/8	18 3/8	20 5/8	20 5/8			
6	14 1/2	21 1/4	20 3/4	20 3/4	19 7/8	19 1/2	20 3/8	20 3/4	19	20 3/4	20 3/8			
7	14 3/8	19 3/4	19 3/4	20 1/4	19 3/4	17	19 3/4	20 5/8	18 7/8	20 5/8	19 3/4			
8	14 1/4	21 1/2	21 1/2	20 5/8	19 1/4	19 3/4	20 5/8	21 1/2	19 5/8	21 1/2	20 5/8			
9	14 1/2	21 1/4	21 1/4	20 7/8	20	20 7/8	20 7/8	21 1/4	19 1/2	21 3/4	21 1/4			
A	18	19 3/4	19 3/4	20 1/4	19 3/4	17	19 3/4	20 5/8	18 7/8	20 5/8	19 3/4	21 5/8	23 7/8	23
B	14 1/4	21 1/2	21 1/2	20 5/8	19 1/4	19 3/4	20 5/8	21 1/2	19 5/8	21 1/2	20 5/8	19 1/2	22 3/8	21 1/2
C	14 1/4	21 1/4	21 1/4	20 7/8	20	20 7/8	20 7/8	21 1/4	19 1/2	21 3/4	21 1/4	18 3/8	21	19 3/4

EXAMPLE FOR USING SPACING CHART



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
2																										
3																										
4																										
5	72	60	6		1	12	18	9	10	11	8 7/8	23	22 1/4	13 1/4	48 1/2	10 1/4		19 1/4	24	7		90		96	7 1/2	

1-2 Digit Bid Area	3 Digit Bid Area
Sq. Ft.	
30	37.5

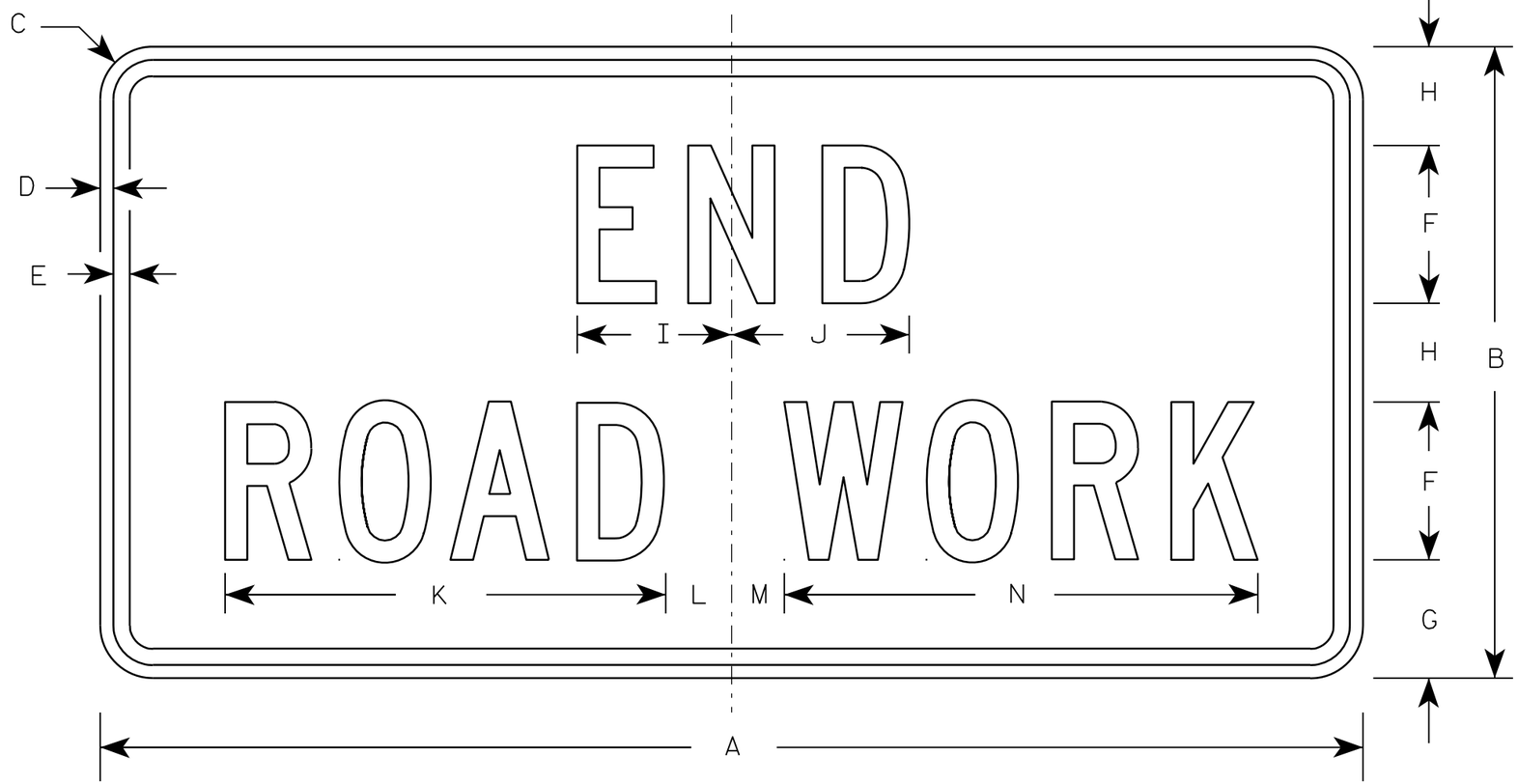
STANDARD SIGN E5-1A

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch for State Traffic Engineer

DATE 5/11/10 PLATE NO. E5-1A.12

PROJECT NO: | HWY: | COUNTY: | SHEET NO: 419 | E



G20-2A

NOTES

1. Sign is Type II - Type F Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - Orange
   Message - Black
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.

Metric equivalent for this sign is:

SIZE	
1	900 mm X 450 mm
2	1200 mm X 600 mm
3	1200 mm X 600 mm
4	1200 mm X 600 mm
5	1200 mm X 600 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	36	18	1 1/8	3/8	1/2	4	3 3/4	2 1/2	4 1/8	4 1/8	11 1/8	2	1	12 1/8													4.5	0.41
2	48	24	1 1/2	1/2	5/8	6	4 1/2	3 3/4	5 7/8	6 3/4	16 3/4	2 1/2	1 3/4	18 1/2													8.0	0.72
3	48	24	1 1/2	1/2	5/8	6	4 1/2	3 3/4	5 7/8	6 3/4	16 3/4	2 1/2	1 3/4	18 1/2													8.0	0.72
4	48	24	1 1/2	1/2	5/8	6	4 1/2	3 3/4	5 7/8	6 3/4	16 3/4	2 1/2	1 3/4	18 1/2													8.0	0.72
5	48	24	1 1/2	1/2	5/8	6	4 1/2	3 3/4	5 7/8	6 3/4	16 3/4	2 1/2	1 3/4	18 1/2													8.0	0.72

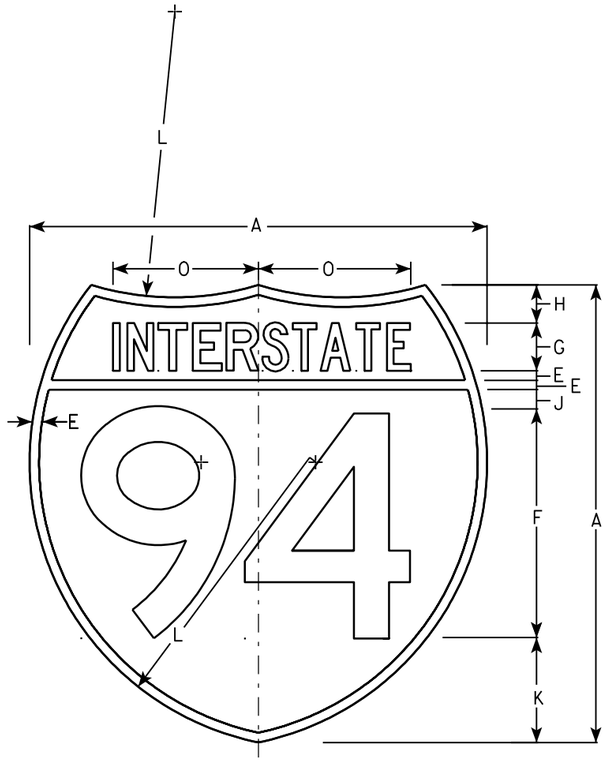
STANDARD SIGN
G20-2A

WISCONSIN DEPT OF TRANSPORTATION

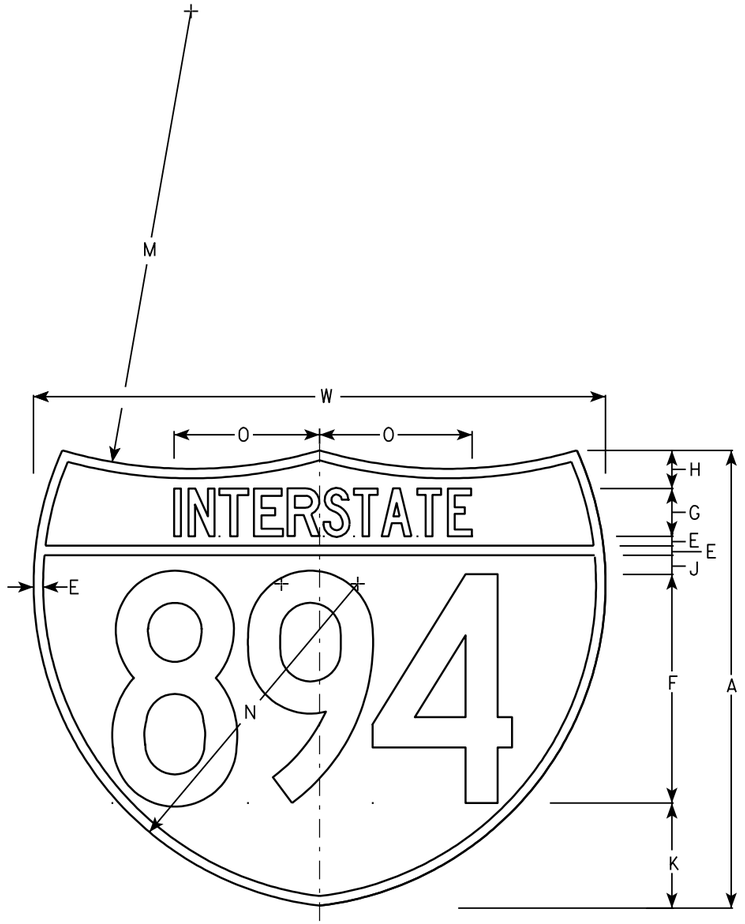
APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 9/30/09 PLATE NO. G20-2A.8

PROJECT NO:	HWY:	COUNTY:		SHEET NO: 420	E



M1-1



M1-1A

NOTES

1. Sign is Type II - See Note 6 - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - Top Red - Bottom Blue (See Note 6)
   Message - White - See Note 6
3. Message Series - See note 5
4. Substitute appropriate numerals & ajust spacing as per plate A10-1.
5. M1-1 - Numerals - D
   Interstate - C
   M1-1A - All copy - C
6. Permanent Signs
   Message - Type H Reflective
   Detour or other temporary signs
   Background - Reflective
   Message - Reflective

Metric equivalent for these signs are:

SIZE	M1-1	SIZE	M1-1A
1			
2	600 mm X 600 mm	2	600 mm X 750 mm
3	900 mm X 900 mm	3	900 mm X 1125 mm
4	900 mm X 900 mm	4	900 mm X 1125 mm
5	900 mm X 900 mm	5	900 mm X 1125 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	M1-1 Area sq. ft.	M1-1A Area sq. ft.	M1-1 Area m2	M1-1A Area m2
1																													
2	24				1/2	12	2 1/2	2		1	5 1/2	15	24	17	7 7/8								30			3.13	3.91	.36	.46
3	36				3/4	18	3 3/4	3		1 1/2	8 1/4	22 1/2	36	25 1/2	11 3/4								45			7.03	8.79	.81	1.05
4	36				3/4	18	3 3/4	3		1 1/2	8 1/4	22 1/2	36	25 1/2	11 3/4								45			7.03	8.79	.81	1.05
5	36				3/4	18	3 3/4	3		1 1/2	8 1/4	22 1/2	36	25 1/2	11 3/4								45			7.03	8.79	.81	1.05

INTERSTATE ROUTE MARKER
M1-1 FOR ASSEMBLIES

WISCONSIN DEPT OF TRANSPORTATION

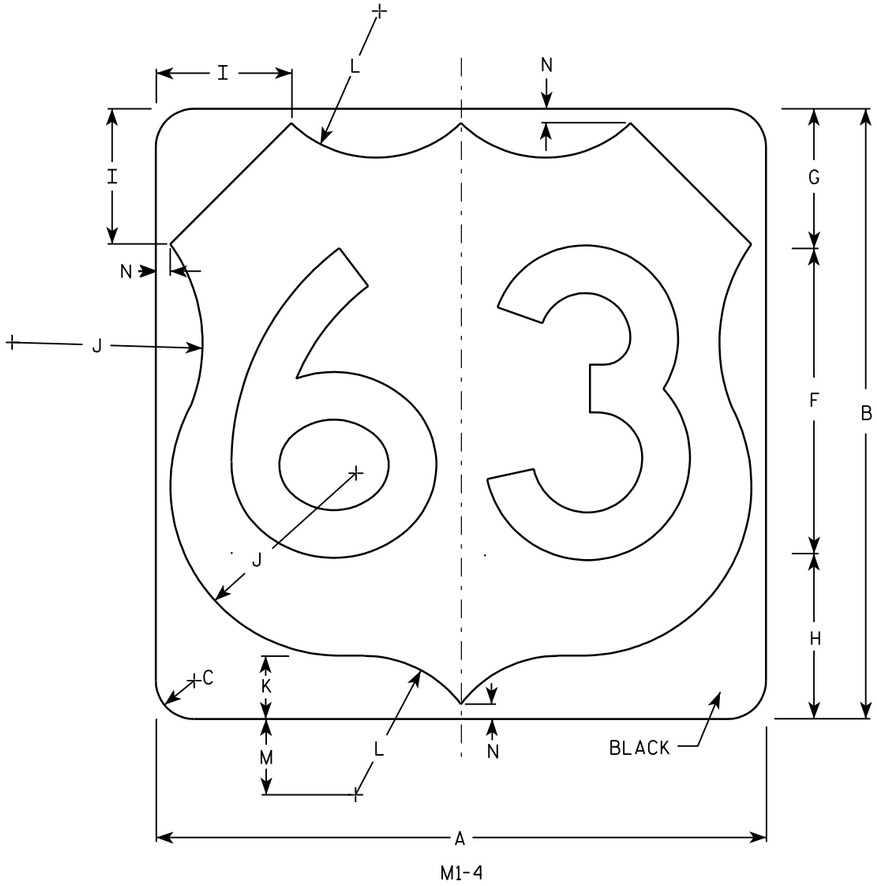
APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 08/23/05 PLATE NO. M1-1.8

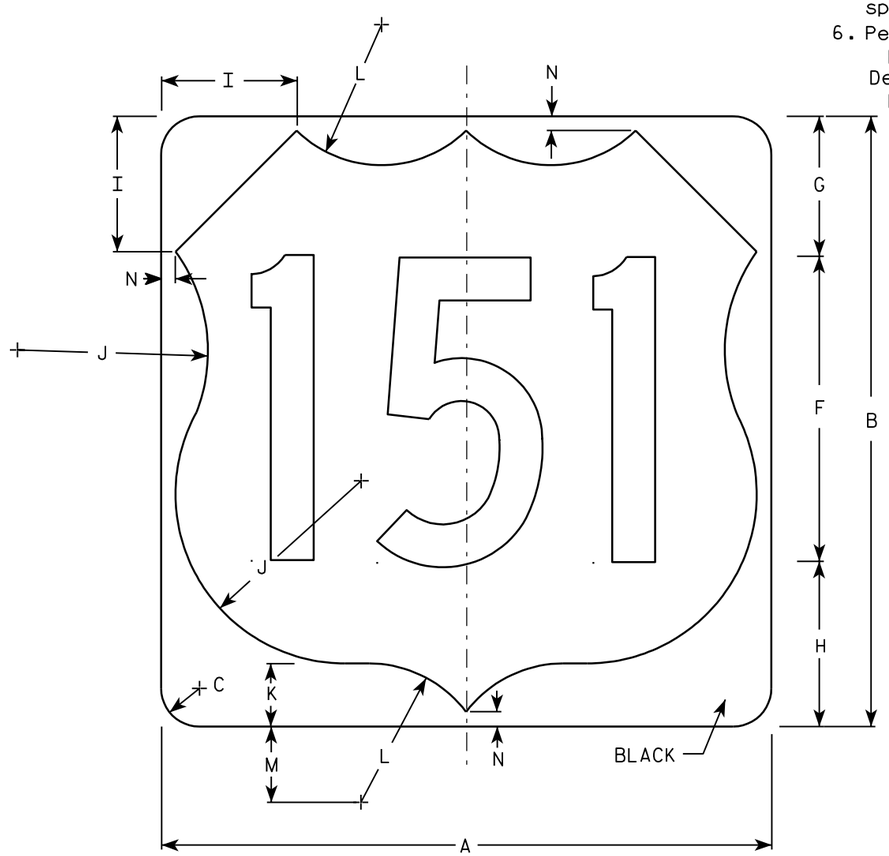
PROJECT NO:	HWY:	COUNTY:		SHEET NO: 421	E

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 numerals and adjust spacing as per Plate A10-1.
6. Permanent Signs
   Background - Type H Reflective
   Detour or other temporary signs
   Background - Reflective



M1-4



M1-4

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	Areq. sq. ft.	Area m2
1																												
2	24	24	1 ½			12	5 ½	6 ½	5	7 ½	2 ½	5 ½	3	½													4.0	.36
3	36	36	2 ¼			18	8 ¼	9 ¼	7 ¼	11 ¼	3 ¾	8 ¼	4 ½	¾													9.0	.81
4	36	36	2 ¼			18	8 ¼	9 ¼	7 ¼	11 ¼	3 ¾	8 ¼	4 ½	¾													9.0	.81
5	36	36	2 ¼			18	8 ¼	9 ¼	7 ¼	11 ¼	3 ¾	8 ¼	4 ½	¾													9.0	.81

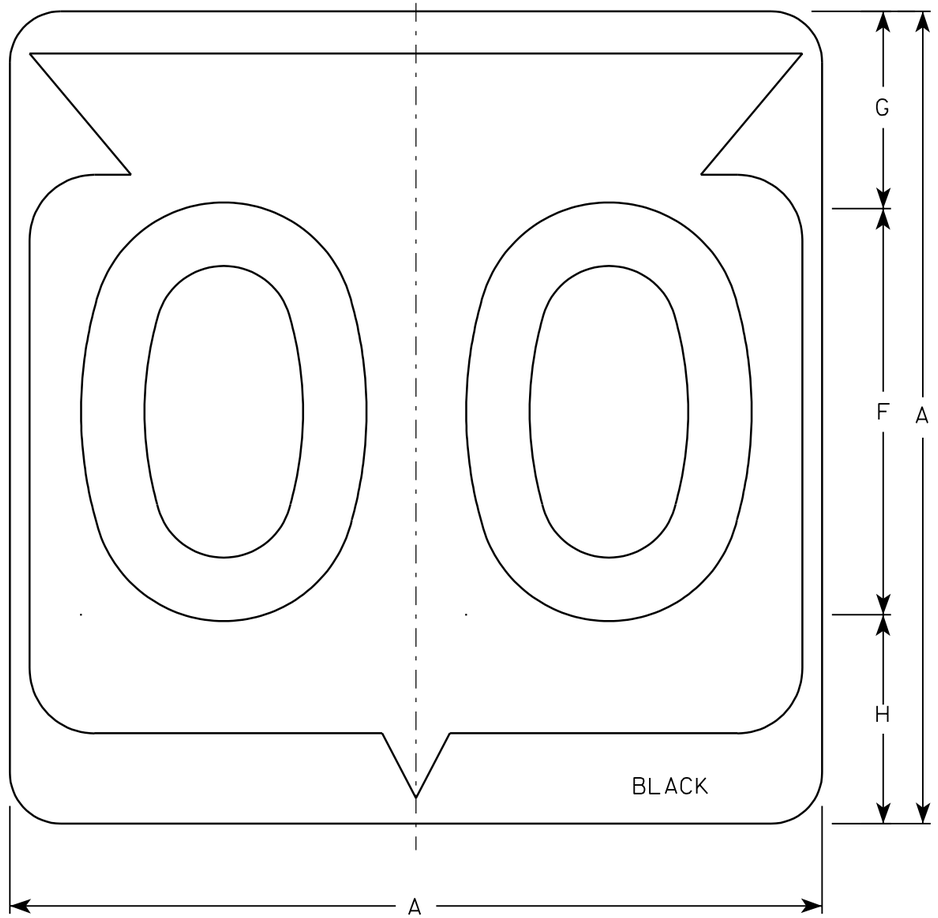
USH MARKER
M1-4 FOR ASSEMBLIES

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 08/25/05 PLATE NO. M1-4.9

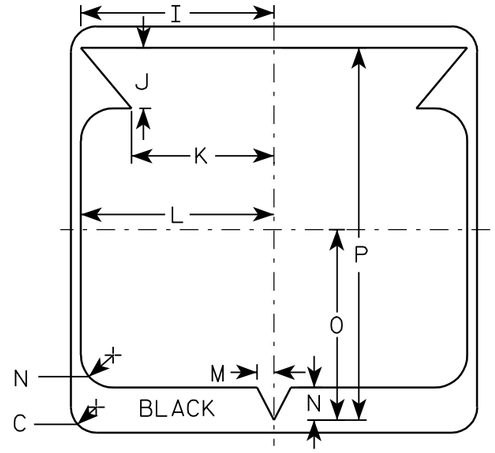
PROJECT NO: | HWY: | COUNTY: | SHEET NO: 422 | E



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

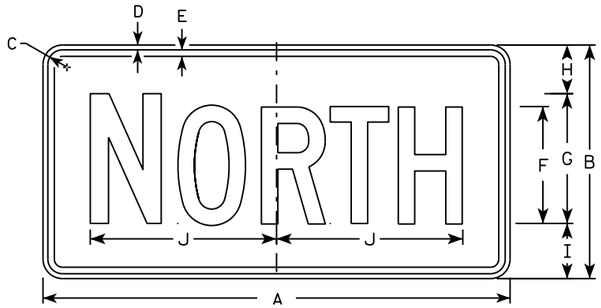
STATE ROUTE MARKER M1-6 FOR ASSEMBLIES

WISCONSIN DEPT OF TRANSPORTATION

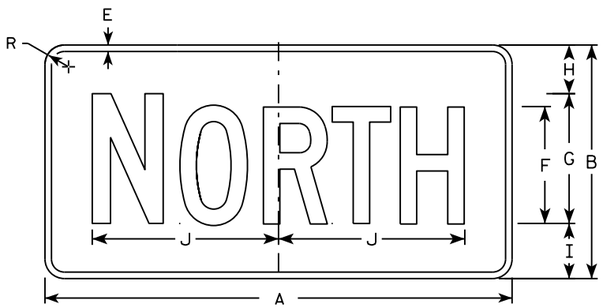
APPROVED Chester J Spang for State Traffic Engineer

DATE 3/20/02 PLATE NO. M1-6.9

PROJECT NO:	HWY:	COUNTY:		SHEET NO: 423	E



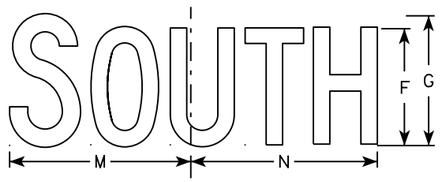
M3-1
MM3-1
MP3-1



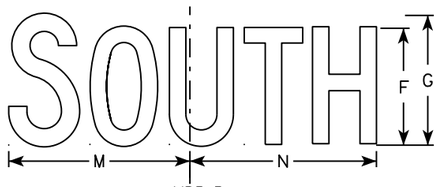
MB3-1
MK3-1
MN3-1

M3-2
MM3-2
MP3-2

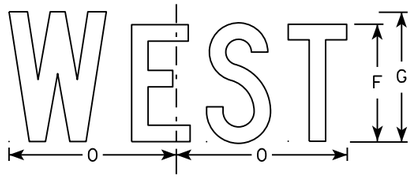
MB3-2
MK3-2
MN3-2



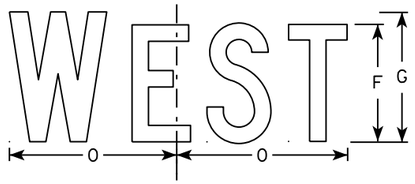
M3-3
MM3-3
MP3-3



MB3-3
MK3-3
MN3-3



M3-4
MM3-4
MP3-4



MB3-4
MK3-4
MN3-4

NOTES

1. All Signs Type II - Type H
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
   Message - Black
   MB3-1 thru MB3-4 Background - Blue
   Message - White
   MK3-1 thru MK3-4 Background - Green
   Message - White
   MM3-1 thru MM3-4 Background - White
   Message - Green
   MN3-1 thru MN3-4 Background - Brown
   Message - White
   MP3-1 thru MP3-4 Background - White
   Message - Blue
6. Note the first letter of each direction is larger than the remainder of the message.

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.
1																											
2	24	12	1 1/8	3/8	3/8	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
3	36	18	1 1/8	3/8	1/2	9	10	3 3/4	4 1/4	14 3/8	12	12 1/8	14	14 1/8	13			1 1/2									4.5
4	36	18	1 1/8	3/8	1/2	9	10	3 3/4	4 1/4	14 3/8	12	12 1/8	14	14 1/8	13			1 1/2									4.5
5	36	18	1 1/8	3/8	1/2	9	10	3 3/4	4 1/4	14 3/8	12	12 1/8	14	14 1/8	13			1 1/2									4.5

STANDARD SIGNS
M3-1 thur M3-4
SERIES

WISCONSIN DEPT OF TRANSPORTATION

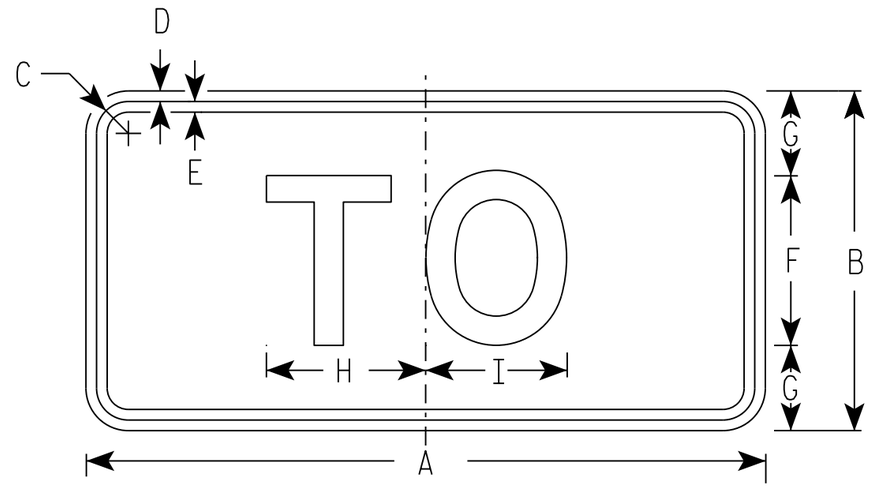
APPROVED Matthew P Rauch for State Traffic Engineer

DATE 10/15/15 PLATE NO M3-1.14

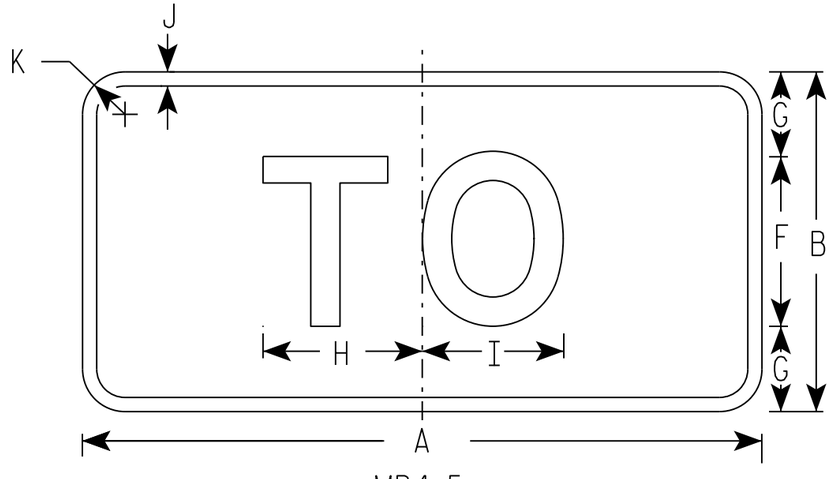
PROJECT NO: | HWY: | COUNTY: | SHEET NO: E

FILE NAME : C:\CAEfiles\Projects\tr_stdplate\M31.DGN PLOT DATE : 01-DEC-2015 17:54 PLOT BY : $$ plotuser $$ PLOT NAME : PLOT SCALE : 11.675051:1.000000

7



M4-5
MM4-5
MP4-5



MB4-5
MK4-5
MN4-5

NOTES

1. Sign is Type II - Type H
2. Color:
   Background - See note 5
   Message - See note 5
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. M4-5 Background - White
   Message - Black

   MB4-5 Background - Blue
   Message - White

   MK4-5 Background - Green
   Message - White

   MM4-5 Background - White
   Message - Green

   MN4-5 Background - Brown
   Message - White

   MP4-5 Background - White
   Message - Blue

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.
1																											
2	24	12	1 1/8	3/8	3/8	6	3	5 3/8	5 1/4	1/2	1 1/2																2.00
3	36	18	1 3/8	3/8	1/2	9	4 1/2	8 1/4	8 3/8	1/2	1 1/2																4.5
4	36	18	1 3/8	3/8	1/2	9	4 1/2	8 1/4	8 3/8	1/2	1 1/2																4.5
5	36	18	1 3/8	3/8	1/2	9	4 1/2	8 1/4	8 3/8	1/2	1 1/2																4.5

STANDARD SIGN
M4-5

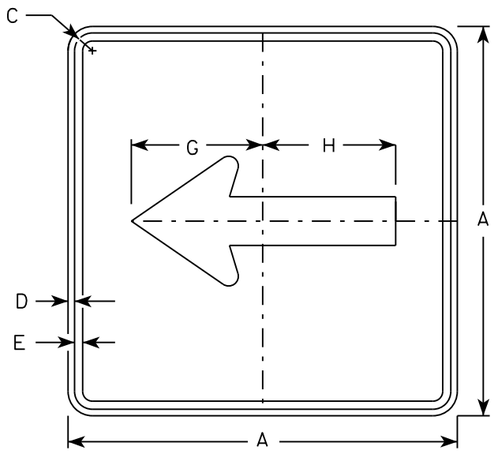
WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

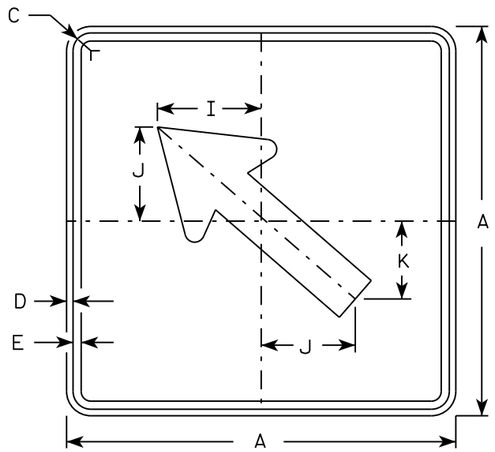
DATE 10/15/15 PLATE 425 M4-5.8

PROJECT NO:	HWY:	COUNTY:		SHEET NO:	E

FILE NAME : C:\CAEfiles\Projects\tr_stdplate\M45.DGN PLOT DATE : 01-DEC-2015 17:55 PLOT BY : $$ plotuser $$ PLOT NAME : PLOT SCALE : 5.351066:1.000000



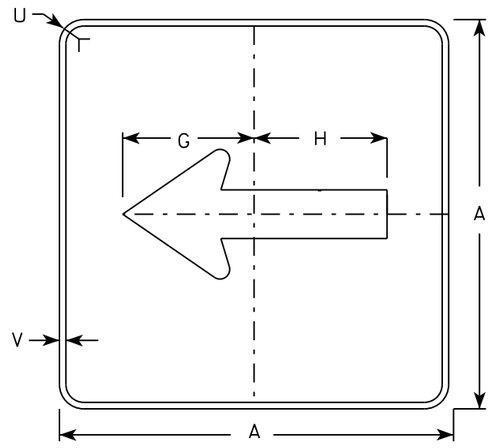
M6-1
MM6-1
MO6-1
MP6-1



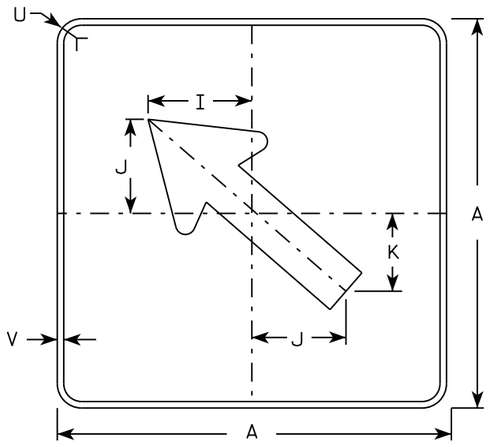
M6-2
MM6-2
MO6-2
MP6-2

NOTES

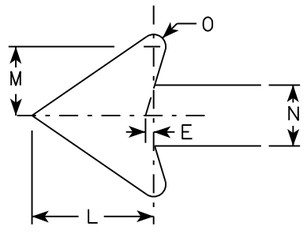
1. Signs are Type II - Type H except as Shown
2. Color:
   Background - See note 4
   Message - See note 4
3. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.
4. M6-1 and M6-2 Background - White
   Message - Black
   MB6-1 and MB6-2 Background - Blue
   Message - White
   MK6-1 and MK6-2 Background - Green
   Message - White
   MM6-1 and MM6-2 Background - White
   Message - Green
   MN6-1 and MN6-2 Background - Brown
   Message - White
   MO6-1 and MO6-2 Background - Orange - Type F Reflective
   Message - Black
   MP6-1 and MP6-2 Background - White
   Message - Blue
   MR6-1 and MR6-2 Background - Brown
   Message - Yellow



MB6-1
MK6-1
MN6-1
MR6-1



MB6-2
MK6-2
MN6-2
MR6-2



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.
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
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
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
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

STANDARD SIGN M6-1 & M6-2 SERIES

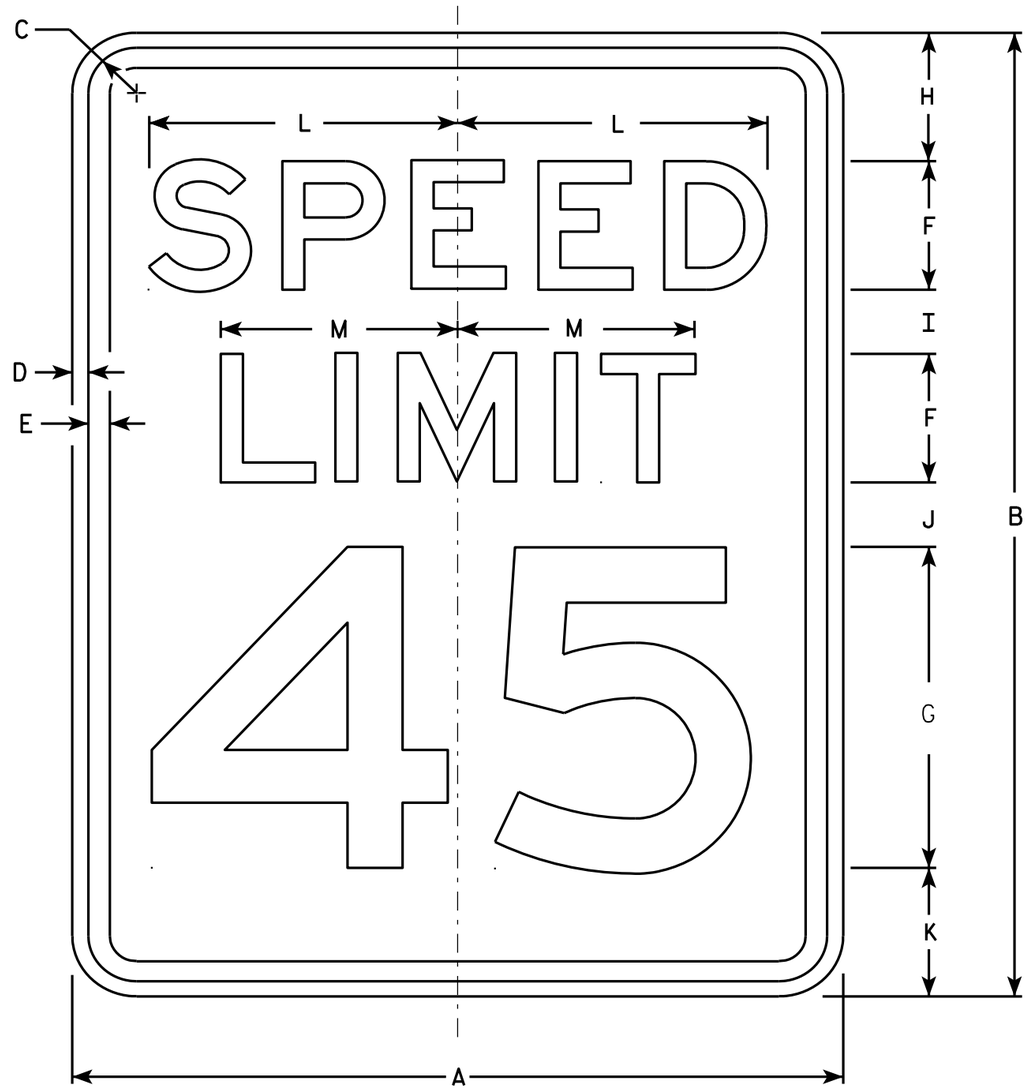
WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 10/15/15 PLATE 426 M6-1.15

PROJECT NO:	HWY:	COUNTY:		SHEET NO:	E

FILE NAME : C:\CAEfiles\Projects\tr_stdplate\M61.DGN PLOT DATE : 01-DEC-2015 17:57 PLOT BY : $$ plotuser $$ PLOT NAME : PLOT SCALE : 11.675051:1.000000



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.

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.
1	18	24	1 1/8	3/8	1/2	3	8	3	2	2	3	7 1/4	5 1/2														3.0
2S	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
2M	30	36	1 3/8	1/2	5/8	5	12	5	2 1/2	2 1/2	4	12	9 1/4														7.5
3	36	48	1 3/8	1/2	5/8	6	14	6	5	5	6	14 3/8	11														12.0
4	36	48	1 3/8	1/2	5/8	6	14	6	5	5	6	14 3/8	11														12.0
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

STANDARD SIGN
R2-1

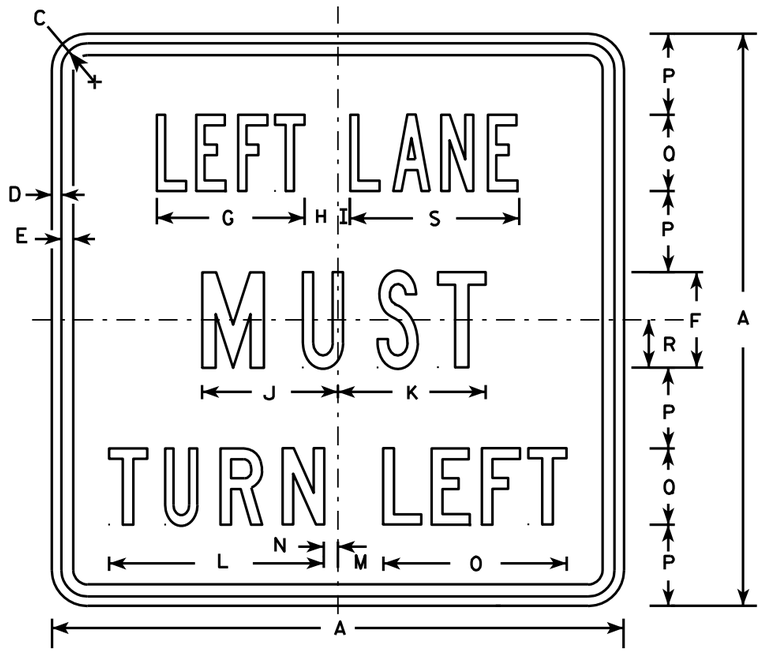
WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

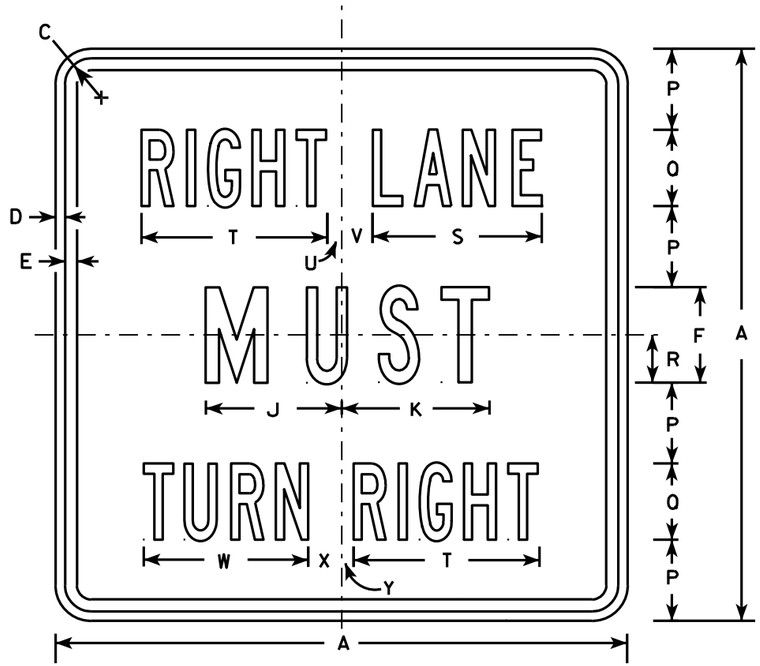
DATE 5/26/10 PLATE NO. R2-1.13

PROJECT NO: | HWY: | COUNTY: | SHEET NO: 427 | E

FILE NAME : C:\Users\PROJECTS\tr_stdplate\R21.DGN PLOT DATE : 28-MAY-2010 08:32 PLOT BY : ditjph PLOT NAME : PLOT SCALE : 4.717577:1.000000
WISDOT/CADDS SHEET 42



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.

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.
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
2S	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
2M	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
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
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
5																											

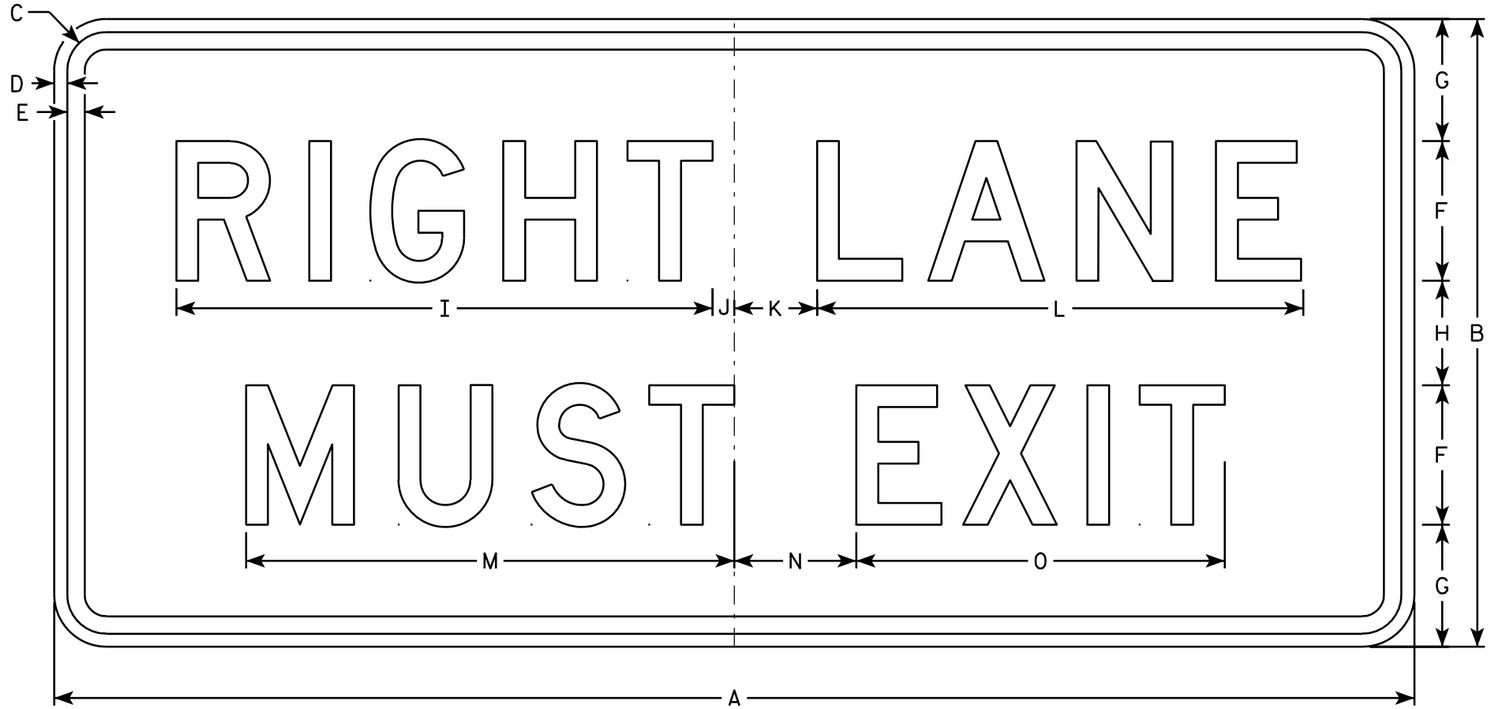
STANDARD SIGN
R3-7L & R3-7R

WISCONSIN DEPT OF TRANSPORTATION

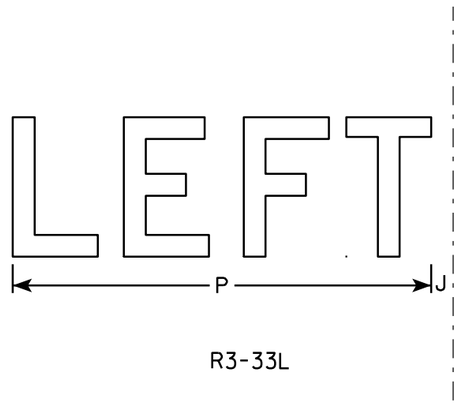
APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 3/18/2011 PLATE NO. R3-7.3

PROJECT NO: | HWY: | COUNTY: | SHEET NO: 428 | E



R3-33R



R3-33L

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.

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.
1																											
2S																											
2M																											
3																											
4	78	36	2 1/4	3/4	1	8	7	6	30 3/4	1 1/4	4 3/4	27 7/8	28	7	21 1/8	24											19.5
5	78	36	2 1/4	3/4	1	8	7	6	30 3/4	1 1/4	4 3/4	27 7/8	28	7	21 1/8	24											19.5

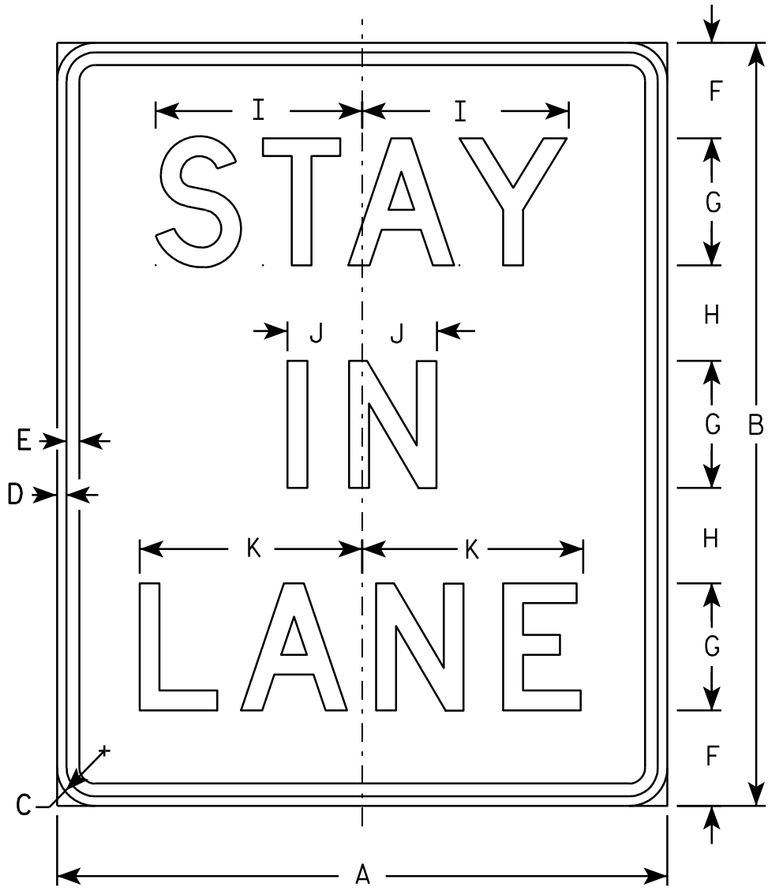
STANDARD SIGN
R3-33

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
For State Traffic Engineer

DATE 10/7/10 PLATE NO. R3-33.1

PROJECT NO: | HWY: | COUNTY: | SHEET NO: 429 | E



R4-9

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.

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.
1	18	24	1 1/8	3/8	3/8	3	4	3	6 1/2	2 3/8	7																3.0
2S	24	30	1 1/8	3/8	1/2	3 5/8	5	3 7/8	8 1/8	3	8 3/4																5.0
2M	24	30	1 1/8	3/8	1/2	3 5/8	5	3 7/8	8 1/8	3	8 3/4																5.0
3	36	48	1 3/8	1/2	5/8	8 1/4	7	5 1/4	11 3/8	4 1/8	12 1/4																12.0
4	36	48	1 3/8	1/2	5/8	8 1/4	7	5 1/4	11 3/8	4 1/8	12 1/4																12.0
5	48	60	2 1/4	3/4	1	7 1/2	10	7 1/2	16 1/4	5 7/8	17 1/2																20.0

STANDARD SIGN
R4-9

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 3/25/2011 PLATE NO. R4-9.2

PROJECT NO:

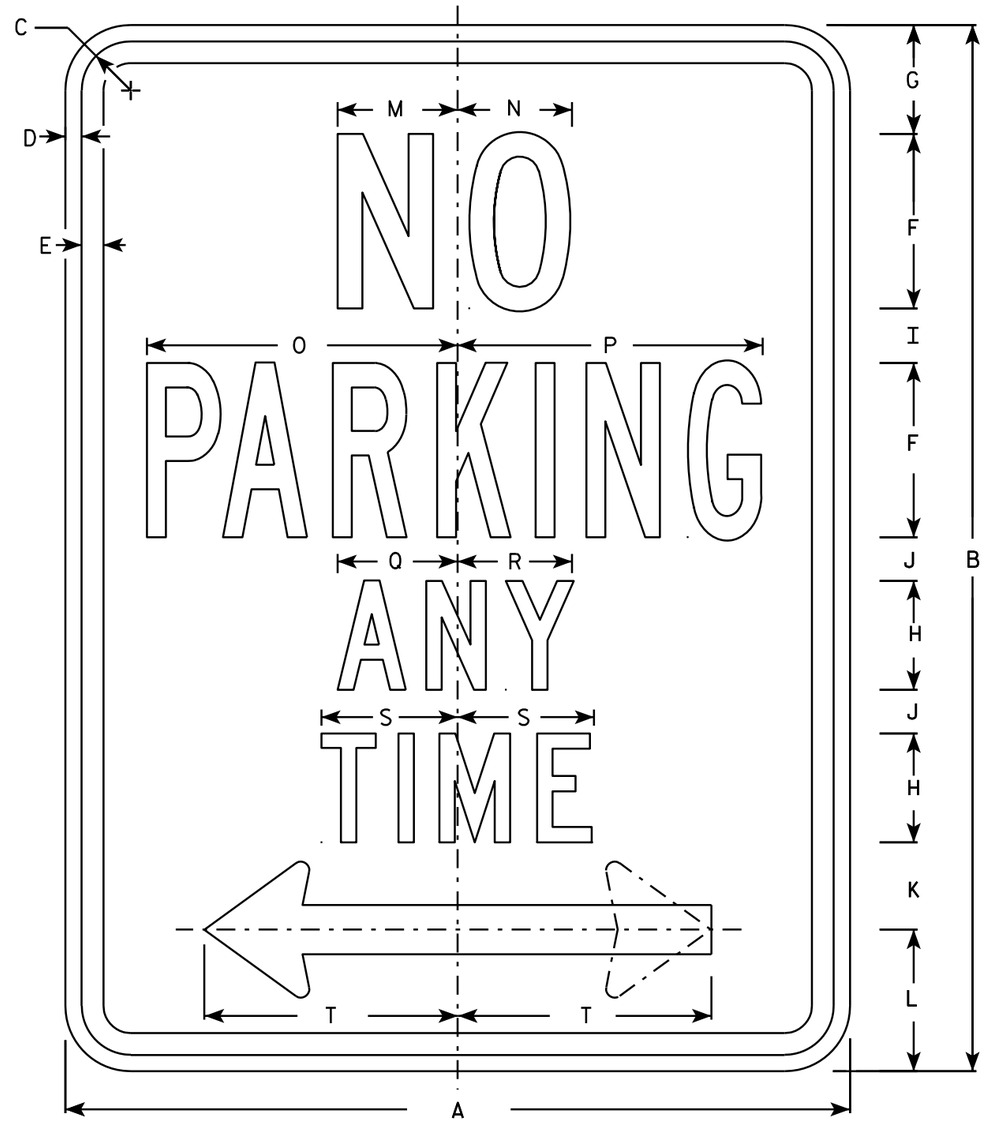
SHEET NO: 430 E

FILE NAME : C:\Users\PROJECTS\tr_stdplate\R49.DGN PLOT DATE : 25-MAR-2011 14:17 PLOT BY : mscsja

WISDOT/CADDS SHEET 42

7

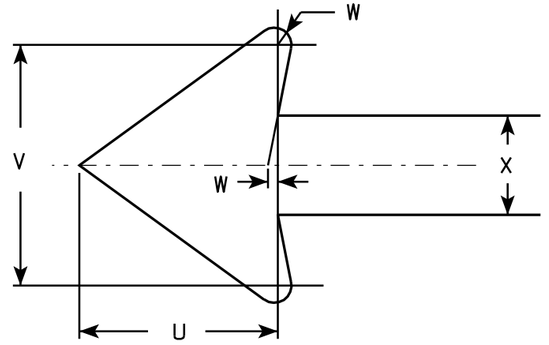
7



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)



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.
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
2S	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
2M	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
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
4																											
5																											

STANDARD SIGN
R7-1

WISCONSIN DEPT OF TRANSPORTATION

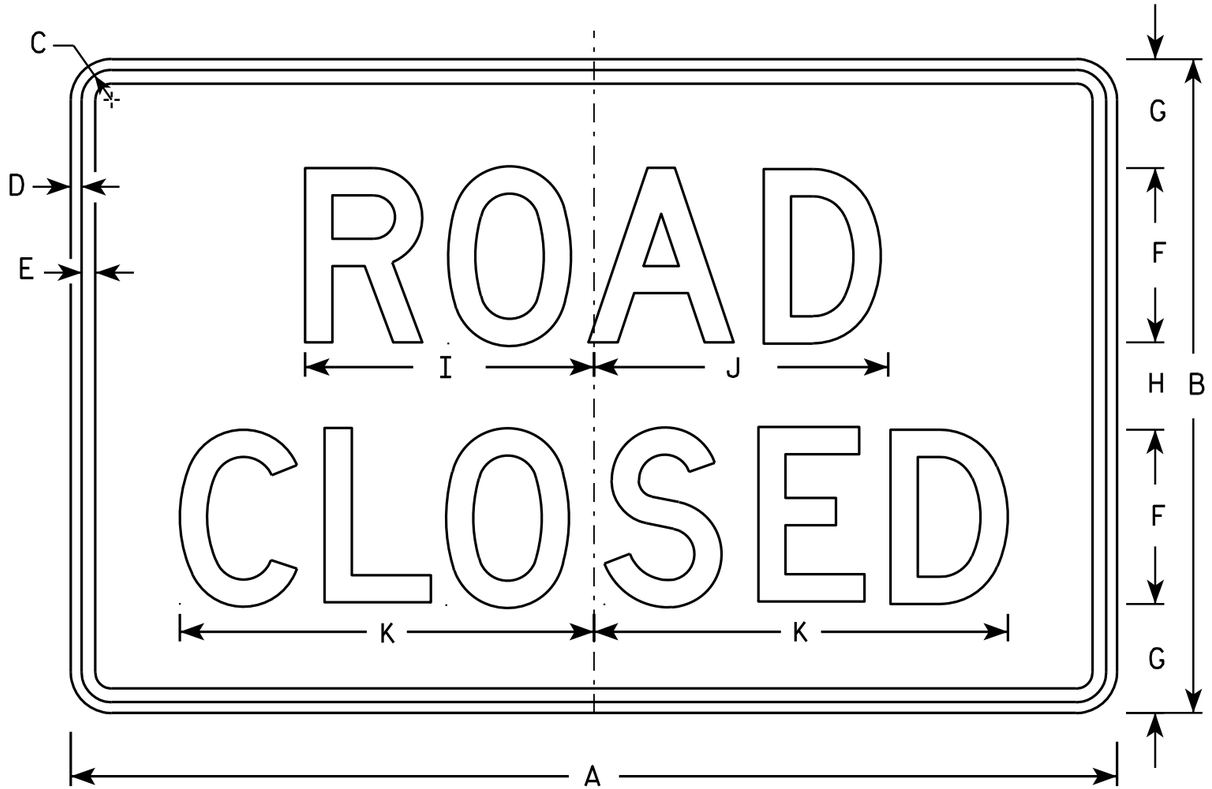
APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 3/31/2011 PLATE NO. R7-1.9

PROJECT NO:	HWY:	COUNTY:		SHEET NO: 431	E

FILE NAME : C:\Users\PROJECTS\tr_stdplate\R71.DGN PLOT DATE : 31-MAR-2011 09:20 PLOT BY : mscsja PLOT NAME : PLOT SCALE : 3.476110:1.000000

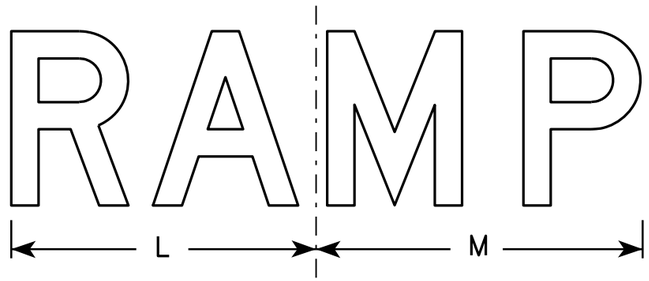
WISDOT/CADDS SHEET 42



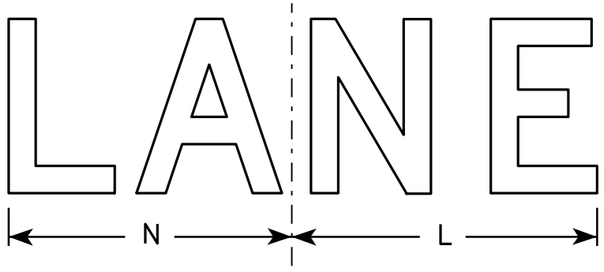
R11-2

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 - 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. Modify the message as required.



R11-2R



R11-2L

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.
1																											
2S	48	30	1 3/8	1/2	5/8	8	5	4	13 1/4	13 1/2	19	14	15	13													10.0
2M	48	30	1 3/8	1/2	5/8	8	5	4	13 1/4	13 1/2	19	14	15	13													10.0
3	48	30	1 3/8	1/2	5/8	8	5	4	13 1/4	13 1/2	19	14	15	13													10.0
4	48	30	1 3/8	1/2	5/8	8	5	4	13 1/4	13 1/2	19	14	15	13													10.0
5	48	30	1 3/8	1/2	5/8	8	5	4	13 1/4	13 1/2	19	14	15	13													10.0

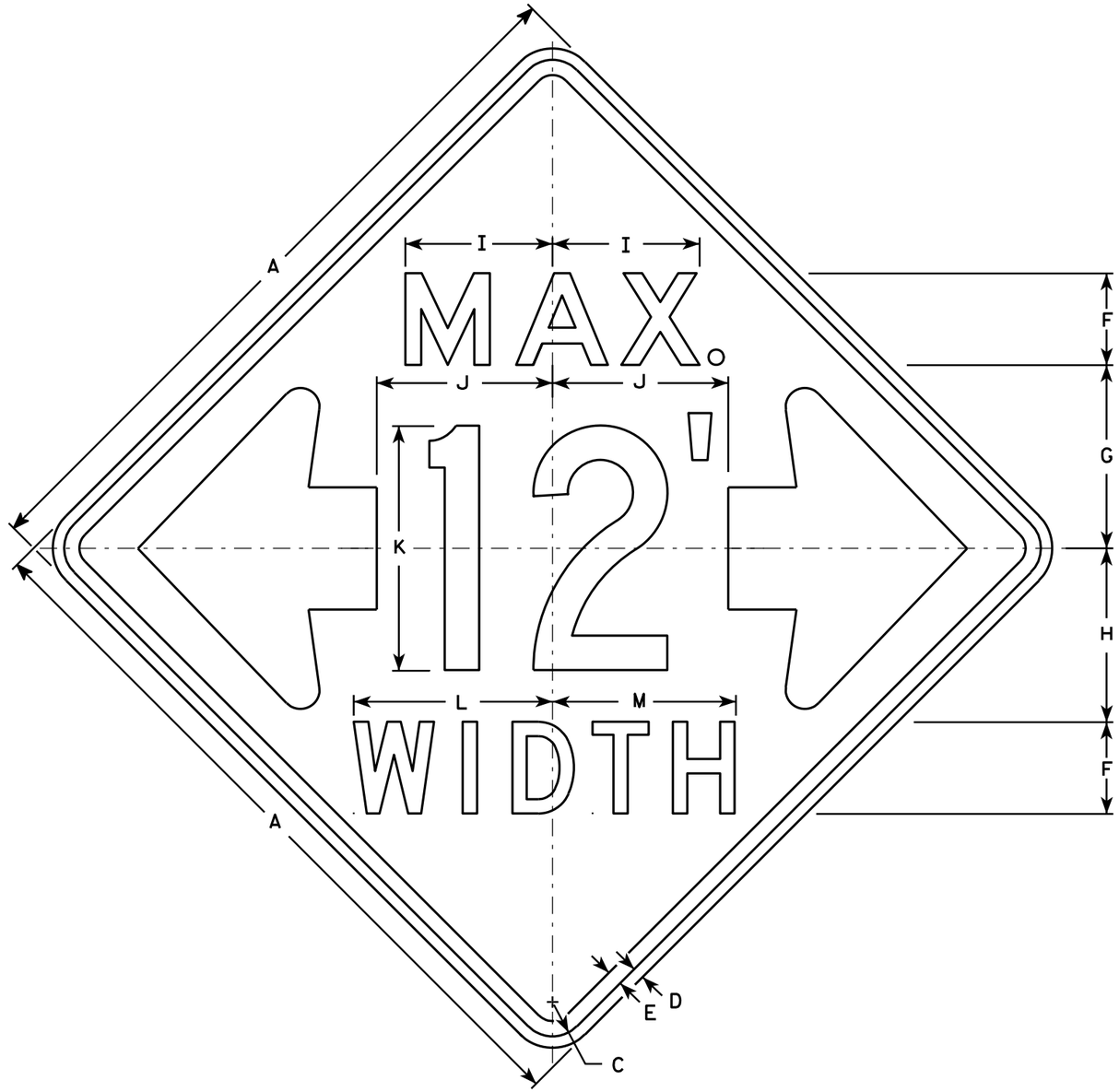
STANDARD SIGN
R11-2

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 4/1/11 PLATE NO. R11-2.10

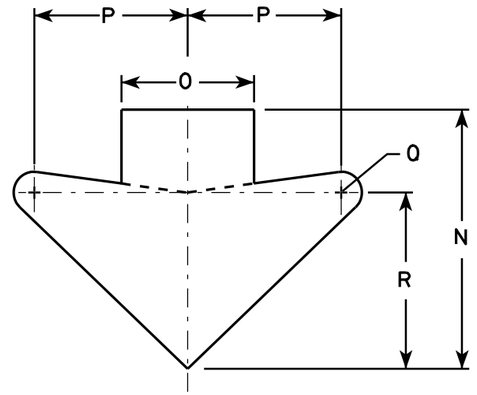
PROJECT NO: | HWY: | COUNTY: | SHEET NO: 432 | E



W12-52

NOTES

1. Sign is Type II - Type F Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - Orange
   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. The top line is series E, the numerals are series C, and the bottom line is series D.
6. Substitute appropriate numerals and adjust spacing as required.



ARROW DETAIL

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.
1																											
2S	48		2 1/4	3/4	1	6	12	11 3/8	9 5/8	11 1/2	16	13	12	15 5/8	8	9 1/4	1 1/4	10 5/8									16.0
2M	48		2 1/4	3/4	1	6	12	11 3/8	9 5/8	11 1/2	16	13	12	15 5/8	8	9 1/4	1 1/4	10 5/8									16.0
3																											
4																											
5																											

STANDARD SIGN
W12-52

WISCONSIN DEPT OF TRANSPORTATION

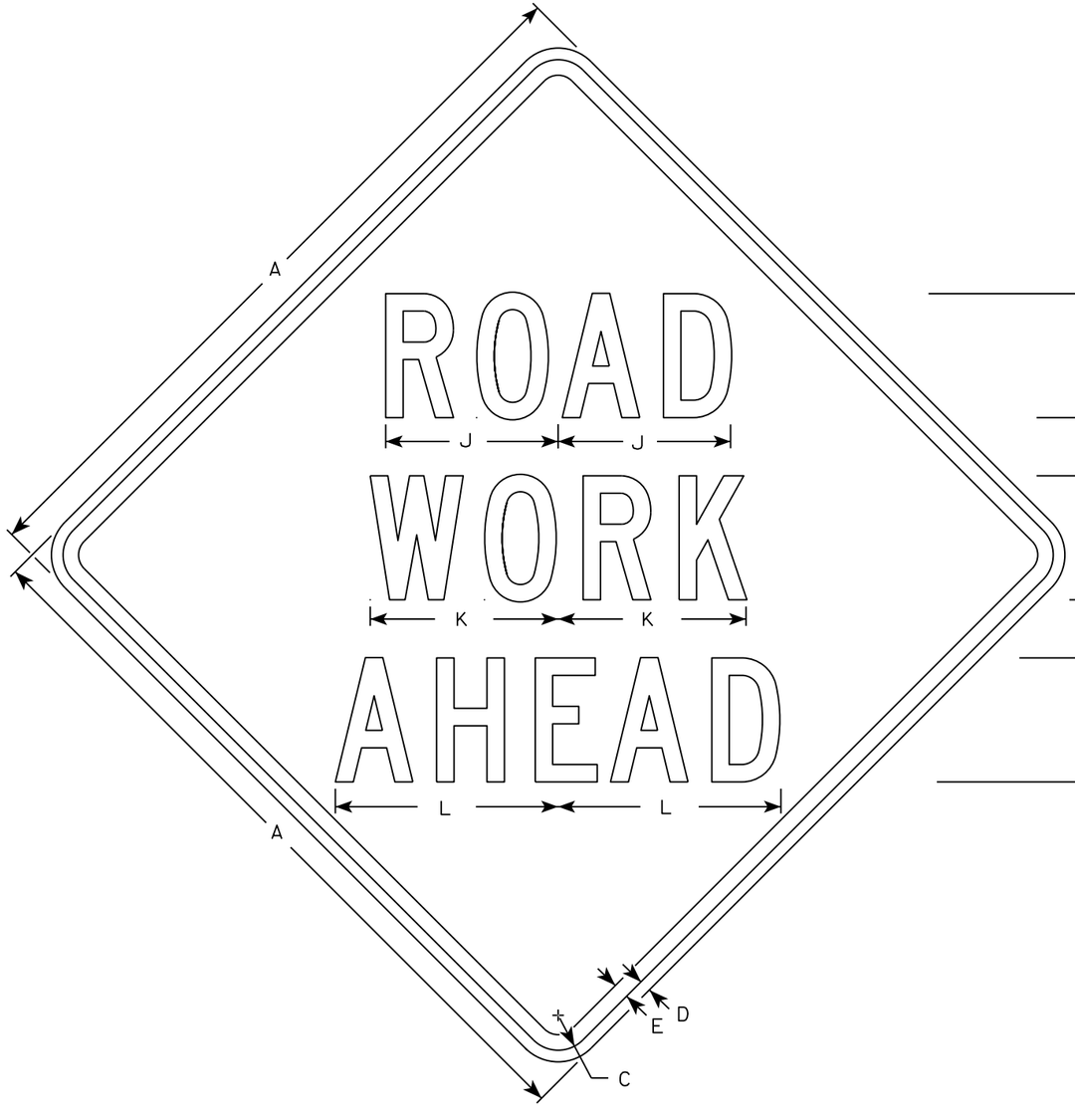
APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 3/16/11 PLATE NO. W12-52.7

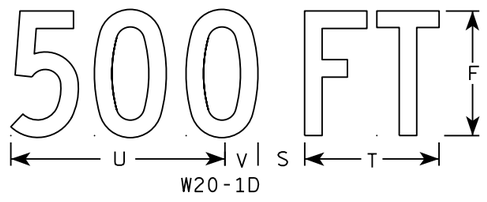
PROJECT NO:	HWY:	COUNTY:		SHEET NO: 433	E

7

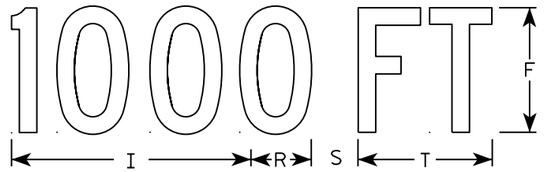
FILE NAME : C:\Users\PROJECTS\tr_stdplate\W1252.DGN PLOT DATE : 16-MAR-2011 14:45 PLOT BY : mscj9h PLOT NAME : PLOT SCALE : 9.137199:1.000000



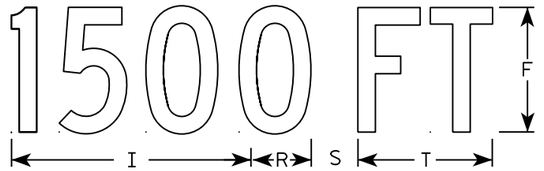
W20-1A



W20-1D

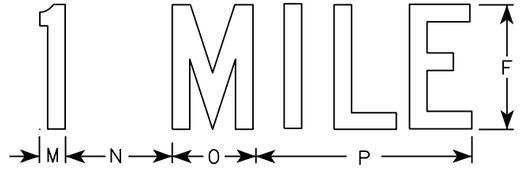


W20-1C

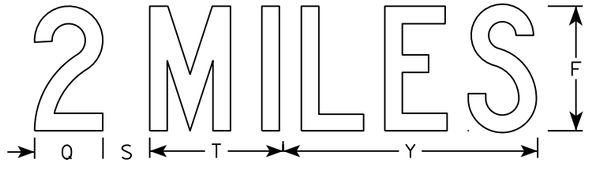


W20-1B

W20-1G



W20-1F



W20-1E

NOTES

1. Sign is Type II - Type F Reflective
2. Color:
   Background - Orange
   Message - Black
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.

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.
1	36		1 3/8	1/2	5/8	5	2 5/8	3 1/4	10 1/8	7	7 5/8	8 7/8	1 1/8	4 1/2	3 1/2	9		2 1/2	2 1/4	5 5/8	9	1 3/8	8	1 3/4	10 3/4	6	9.0
2S	48		2 1/4	3/4	1	8	3 3/4	5 1/8	15 3/8	11 1/8	12 1/8	14 3/8	1 5/8	6 7/8	5 3/8	13 7/8	4 3/8	3 7/8	3	8 5/8	13 3/4	2 1/8	11 7/8	2 3/4	16 3/8	9	16.0
2M	48		2 1/4	3/4	1	8	3 3/4	5 1/8	15 3/8	11 1/8	12 1/8	14 3/8	1 5/8	6 7/8	5 3/8	13 7/8	4 3/8	3 7/8	3	8 5/8	13 3/4	2 1/8	11 7/8	2 3/4	16 3/8	9	16.0
3	48		2 1/4	3/4	1	8	3 3/4	5 1/8	15 3/8	11 1/8	12 1/8	14 3/8	1 5/8	6 7/8	5 3/8	13 7/8	4 3/8	3 7/8	3	8 5/8	13 3/4	2 1/8	11 7/8	2 3/4	16 3/8	9	16.0
4	48		2 1/4	3/4	1	8	3 3/4	5 1/8	15 3/8	11 1/8	12 1/8	14 3/8	1 5/8	6 7/8	5 3/8	13 7/8	4 3/8	3 7/8	3	8 5/8	13 3/4	2 1/8	11 7/8	2 3/4	16 3/8	9	16.0
5	48		2 1/4	3/4	1	8	3 3/4	5 1/8	15 3/8	11 1/8	12 1/8	14 3/8	1 5/8	6 7/8	5 3/8	13 7/8	4 3/8	3 7/8	3	8 5/8	13 3/4	2 1/8	11 7/8	2 3/4	16 3/8	9	16.0

STANDARD SIGN
W20-1A, B, C, D, F & G

WISCONSIN DEPT OF TRANSPORTATION

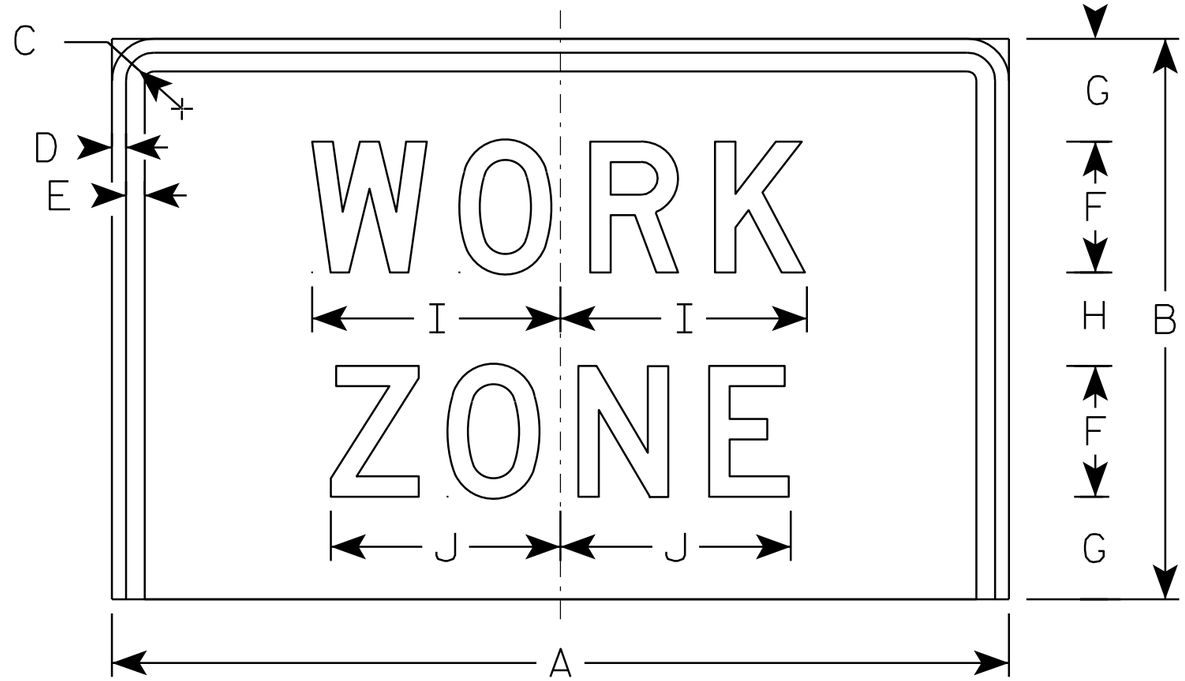
APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 5/07/15 PLATE NO. W20-1.10

PROJECT NO:

SHEET NO: E

FILE NAME : C:\CAEfiles\Projects\tr_stdplate\W201.DGN PLOT DATE : 01-DEC-2015 18:24 PLOT BY : $$ plotuser $$



W21-620

NOTES

1. Sign is Type II - Type F - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - Orange
   Message - Black
3. Message Series - D

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.
1																											
2S	48	30	2 1/4	3/4	1	7	5 1/2	5	13 1/4	12 1/4																	10.0
2M	48	30	2 1/4	3/4	1	7	5 1/2	5	13 1/4	12 1/4																	10.0
3																											
4																											
5																											

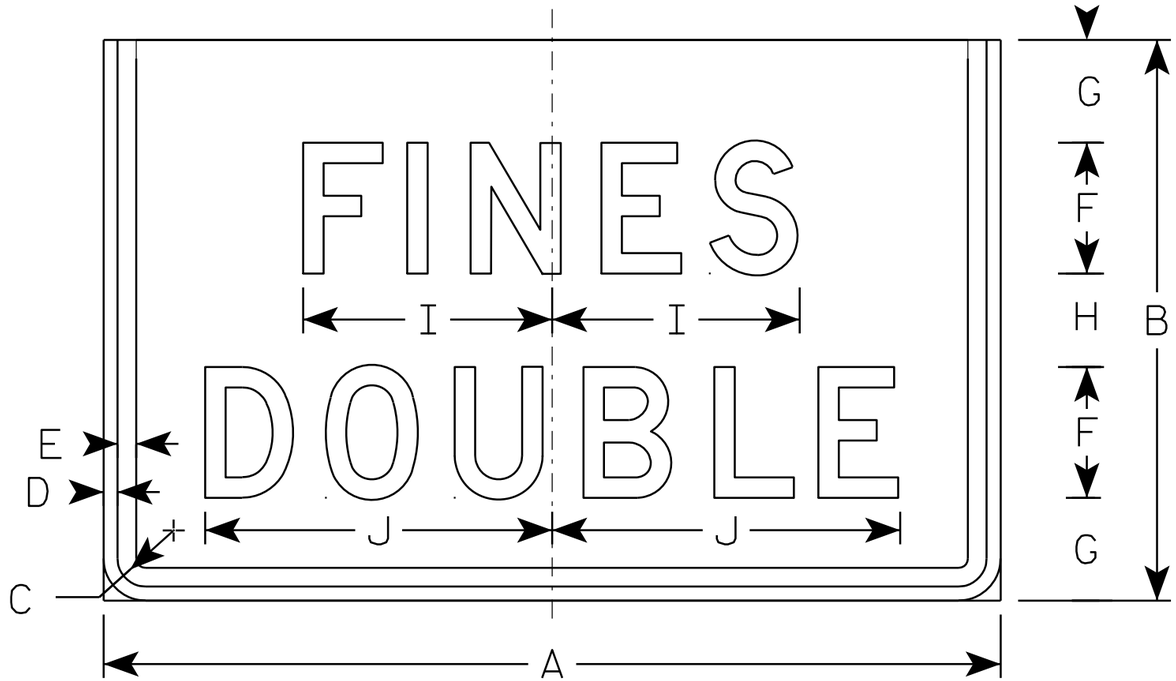
STANDARD SIGN
W21-620

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 3/21/11 PLATE NO. W21-620.2

PROJECT NO:	HWY:	COUNTY:		SHEET NO: 435	E



W21-62R

NOTES

1. Sign is Type II - Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - White
   Message - Black
3. Message Series - D

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.
1																											
2S	48	30	2 1/4	3/4	1	7	5 1/2	5	13 1/4	18 5/8																	10.0
2M	48	30	2 1/4	3/4	1	7	5 1/2	5	13 1/4	18 5/8																	10.0
3																											
4																											
5																											

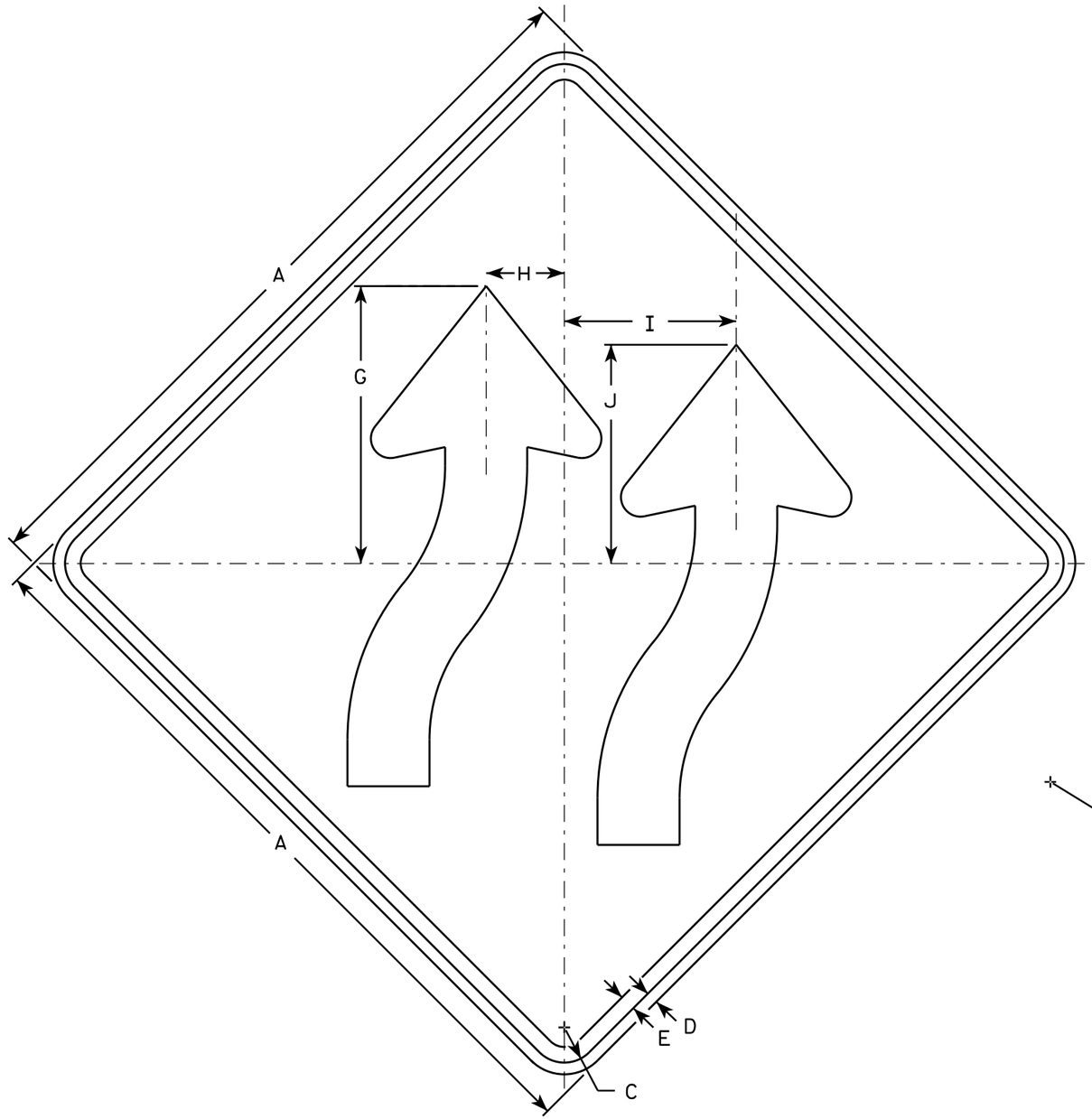
STANDARD SIGN
W21-62R

WISCONSIN DEPT OF TRANSPORTATION

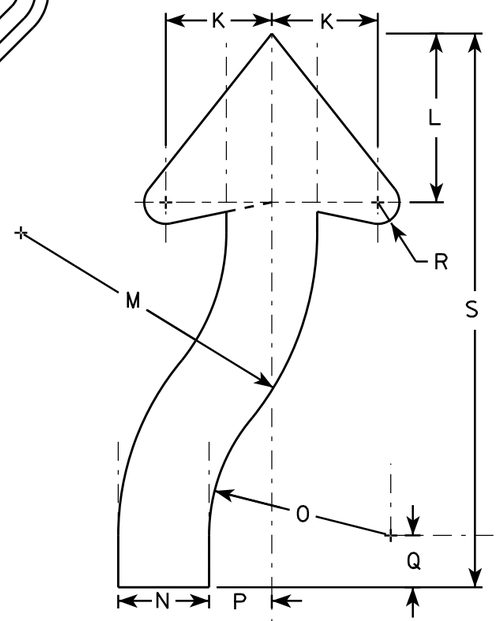
APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 3/21/11 PLATE NO. W21-62R.2

PROJECT NO:	HWY:	COUNTY:		SHEET NO: 436	E



W01-4bR



NOTES

1. Sign is Type II - Type F Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - Orange
   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. W01-4bL is the same as W014-bR exept arrows are reversed along the vertical centerline

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.
1	36		1 5/8	5/8	3/4		13 3/8	3 3/4	8 1/4	10 1/2	4 5/8	7 3/8	12 7/8	3 7/8	7 7/8	2 3/4	2 1/4	7/8	24								9.0
2S	48		2 1/4	3/4	1		17 3/4	5	11	14	6 1/8	9 3/4	17 1/8	5 1/4	10 1/2	3 5/8	3	1 1/4	32								16.0
2M	48		2 1/4	3/4	1		17 3/4	5	11	14	6 1/8	9 3/4	17 1/8	5 1/4	10 1/2	3 5/8	3	1 1/4	32								16.0
3	48		2 1/4	3/4	1		17 3/4	5	11	14	6 1/8	9 3/4	17 1/8	5 1/4	10 1/2	3 5/8	3	1 1/4	32								16.0
4	48		2 1/4	3/4	1		17 3/4	5	11	14	6 1/8	9 3/4	17 1/8	5 1/4	10 1/2	3 5/8	3	1 1/4	32								16.0
5	48		2 1/4	3/4	1		17 3/4	5	11	14	6 1/8	9 3/4	17 1/8	5 1/4	10 1/2	3 5/8	3	1 1/4	32								16.0

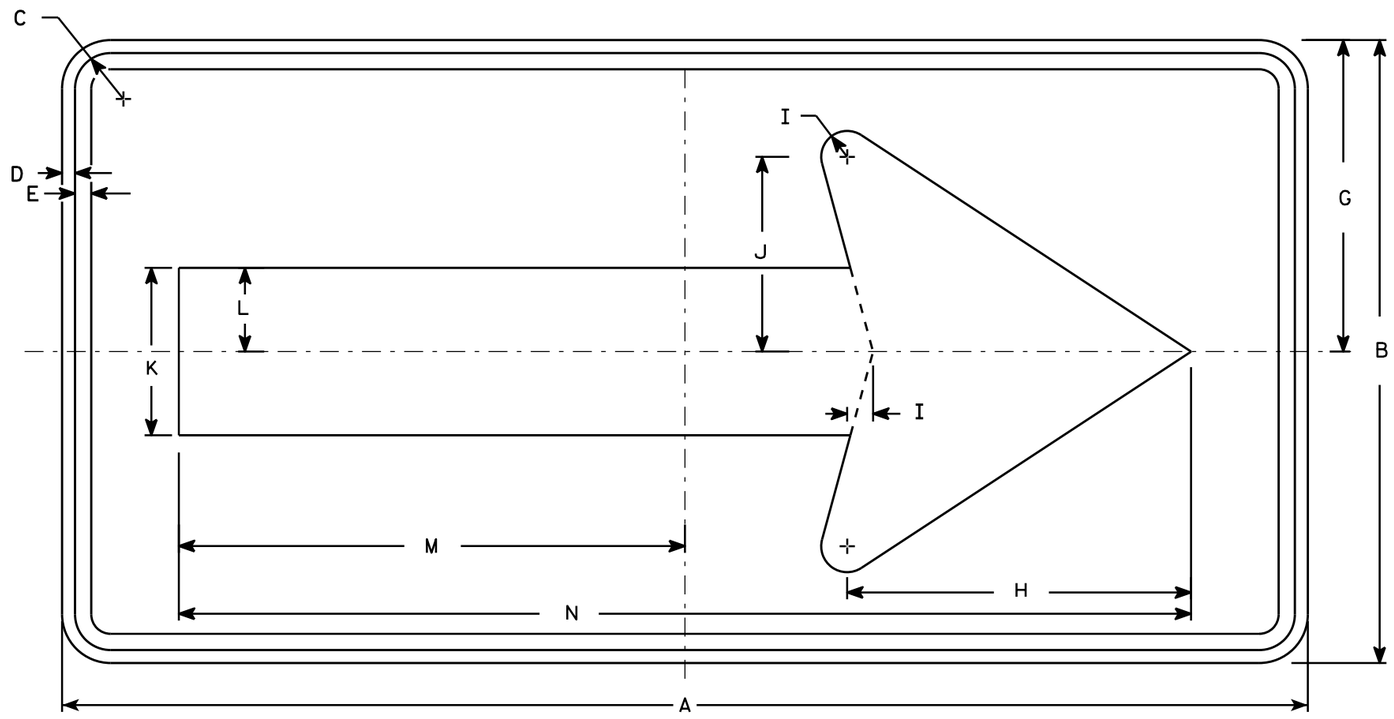
STANDARD SIGN
W01-4b

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 11/18/13 PLATE NO. W01-4b.1

PROJECT NO:	HWY:	COUNTY:		SHEET NO:	E



W01-6

NOTES

1. Sign is Type II - Type F Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - Orange
   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.

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.
1																											
2S	48	24	1 3/8	1/2	5/8		12	13 1/4	1	7 1/2	6 1/2	3 1/4	19 1/2	39													8.0
2M	48	24	1 3/8	1/2	5/8		12	13 1/4	1	7 1/2	6 1/2	3 1/4	19 1/2	39													8.0
3	60	30	1 3/8	1/2	5/8		15	16 1/4	1 1/4	9 1/4	8	4	24 3/8	48 3/4													12.5
4	60	30	1 3/8	1/2	5/8		15	16 1/4	1 1/4	9 1/4	8	4	24 3/8	48 3/4													12.5
5	60	30	1 3/8	1/2	5/8		15	16 1/4	1 1/4	9 1/4	8	4	24 3/8	48 3/4													12.5

STANDARD SIGN
W01-6

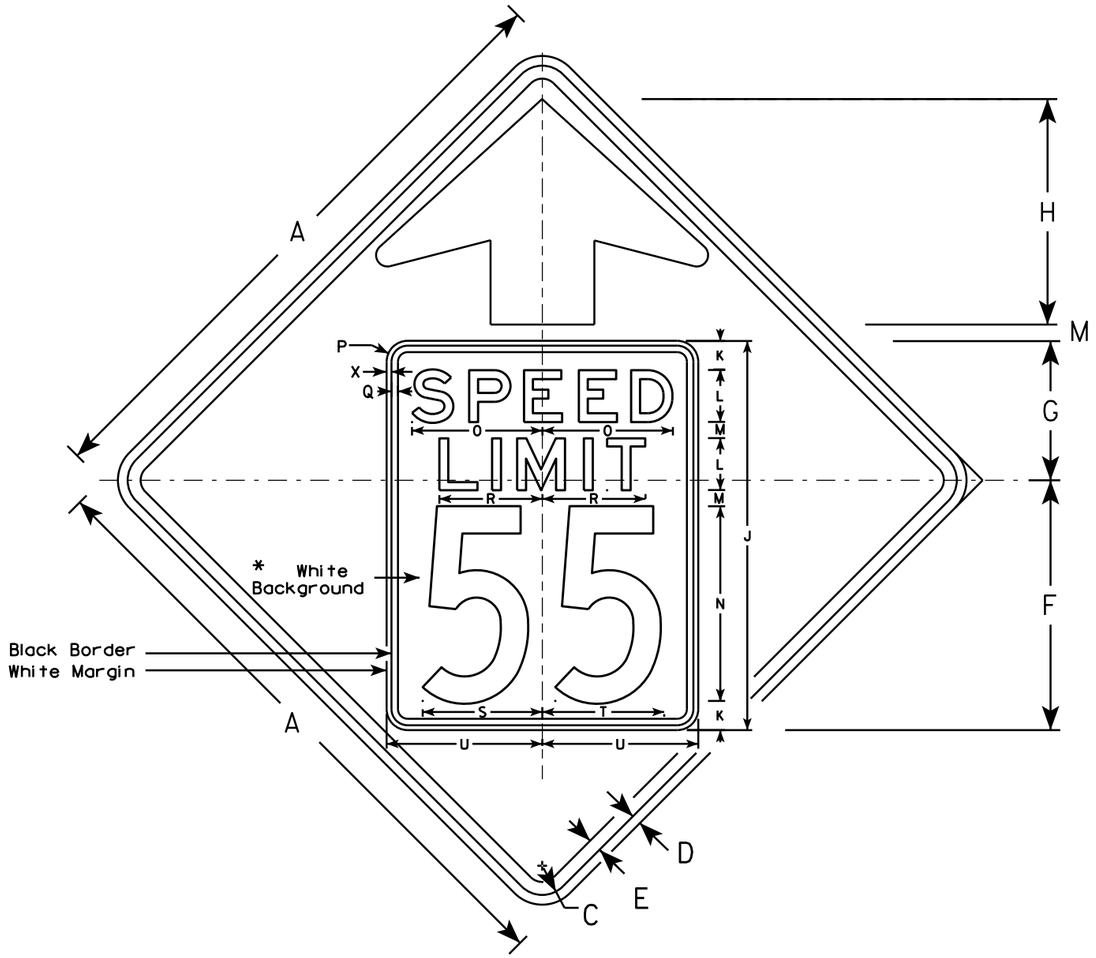
WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 11/18/13 PLATE W01-6.1

PROJECT NO:	HWY:	COUNTY:		SHEET NO:	E

FILE NAME : C:\CAEfiles\Projects\tr_stdplate\W016.DGN PLOT DATE : 28-FEB-2014 11:37 PLOT BY : mscj9h PLOT NAME : PLOT SCALE : 5.837526:1.000000 WISDOT/CADDS SHEET 42

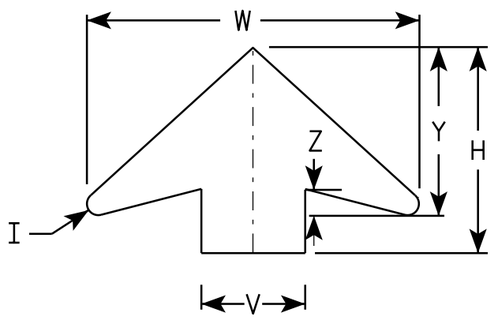


W03-5

NOTES

1. Sign is Type II - Type F Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color: *
   Background - ORANGE*
   Message - BLACK
3. Message Series - C for numbers Series E for wording
4. Substitute appropriate numerals and optically adjust spacing to achieve proper balance

*Speed Limit Sign shall have a White Background



ARROW DETAIL

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.
1	36		1 5/8	5/8	3/4	14 1/2	9 1/2	11 1/2	5/8	24	2	3	1	12	7 1/8	1 1/2	3/8	5 3/4	7 1/4	7 1/8	9	6	19 1/4	3/8	9 3/4	1 5/8	9.0
2S	48		2 1/4	3/4	1	19 1/4	10 3/4	17 3/8	7/8	30	2 1/4	4	1 1/4	15	10	1 5/8	1/2	8	9 1/4	9 3/8	12	8	25 5/8	3/8	13	2	16.0
2M	48		2 1/4	3/4	1	19 1/4	10 3/4	17 3/8	7/8	30	2 1/4	4	1 1/4	15	10	1 5/8	1/2	8	9 1/4	9 3/8	12	8	25 5/8	3/8	13	2	16.0
3	48		2 1/4	3/4	1	19 1/4	10 3/4	17 3/8	7/8	30	2 1/4	4	1 1/4	15	10	1 5/8	1/2	8	9 1/4	9 3/8	12	8	25 5/8	3/8	13	2	16.0
4	48		2 1/4	3/4	1	19 1/4	10 3/4	17 3/8	7/8	30	2 1/4	4	1 1/4	15	10	1 5/8	1/2	8	9 1/4	9 3/8	12	8	25 5/8	3/8	13	2	16.0
5	48		2 1/4	3/4	1	19 1/4	10 3/4	17 3/8	7/8	30	2 1/4	4	1 1/4	15	10	1 5/8	1/2	8	9 1/4	9 3/8	12	8	25 5/8	3/8	13	2	16.0

STANDARD SIGN
W03-5

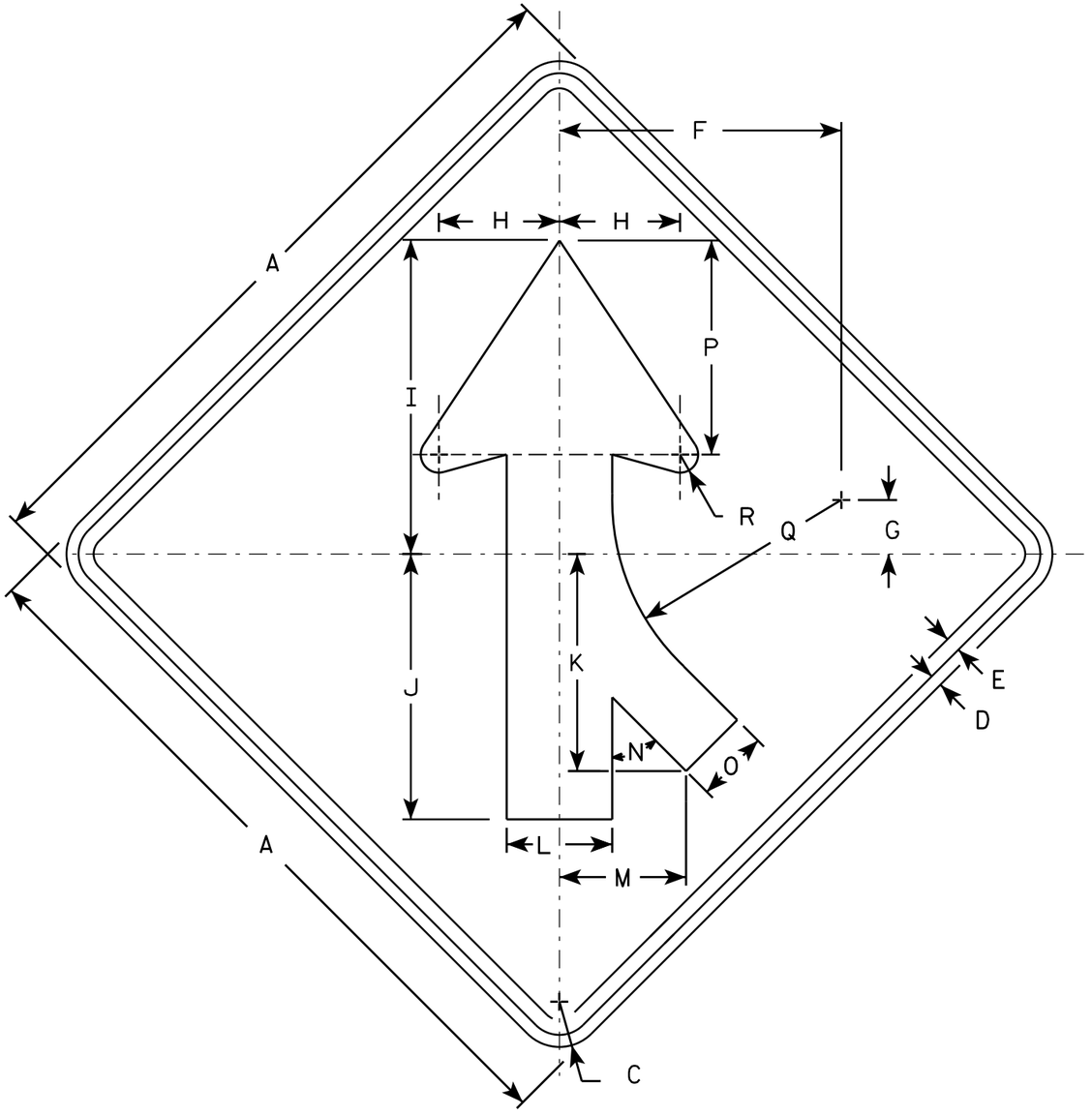
WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 11/20/13 PLATE W03-5.1

PROJECT NO: SHEET NO: E

FILE NAME : C:\CAEFiles\Projects\tr_stdplate\W035.DGN PLOT DATE : 20-NOV-2013 11:32 PLOT BY : mscsja



W04-1R

NOTES

1. Sign is Type II - Type F Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - Orange
   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.

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.
1	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
2S	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
2M	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
3	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
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
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

STANDARD SIGN
W04-1

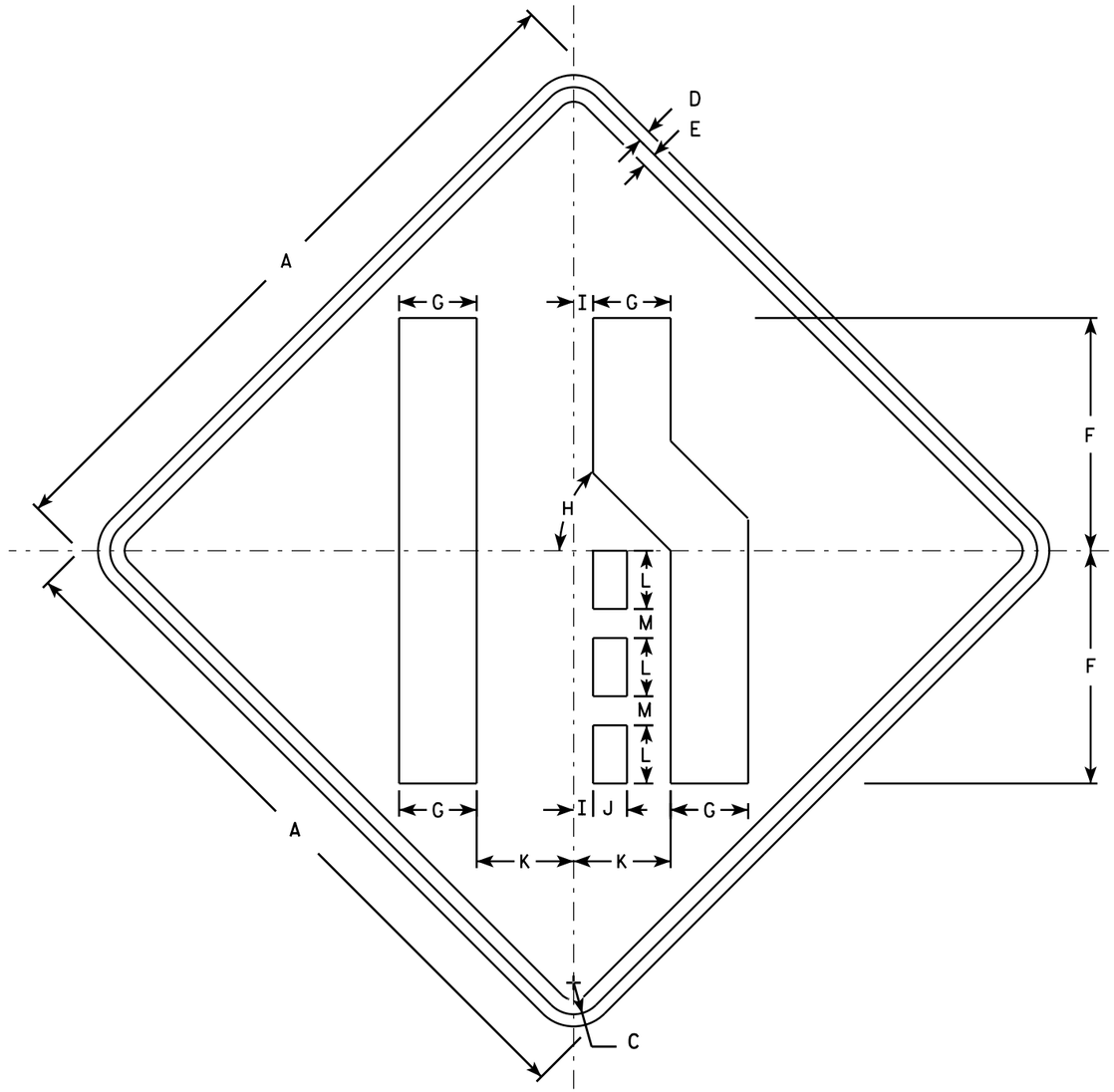
WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 11/20/13 PLATE NO W04-1.1

PROJECT NO: | HWY: | COUNTY: | | SHEET NO: E

FILE NAME : C:\CAEFiles\Projects\tr_stdplate\W041.DGN PLOT DATE : 20-NOV-2013 11:38 PLOT BY : mscsja PLOT NAME : PLOT SCALE : 6.080757:1.000000
WISDOT/CADDS SHEET 42



W04-2R

NOTES

1. Sign is Type II - Type F Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - Orange
   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. W04-2L is the same as W04-2R except the symbol is reversed along the vertical centerline.

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.
1	36		1 5/8	5/8	3/4	12	4	45°	1	1 3/4	5	3	1 1/2														9.0
2S	48		2 1/4	3/4	1	16	5 3/8	45°	1 1/4	2 3/8	6 3/4	4	2														16.0
2M	48		2 1/4	3/4	1	16	5 3/8	45°	1 1/4	2 3/8	6 3/4	4	2														16.0
3	48		2 1/4	3/4	1	16	5 3/8	45°	1 1/4	2 3/8	6 3/4	4	2														16.0
4	48		2 1/4	3/4	1	16	5 3/8	45°	1 1/4	2 3/8	6 3/4	4	2														16.0
5	48		2 1/4	3/4	1	16	5 3/8	45°	1 1/4	2 3/8	6 3/4	4	2														16.0

STANDARD SIGN
W04-2

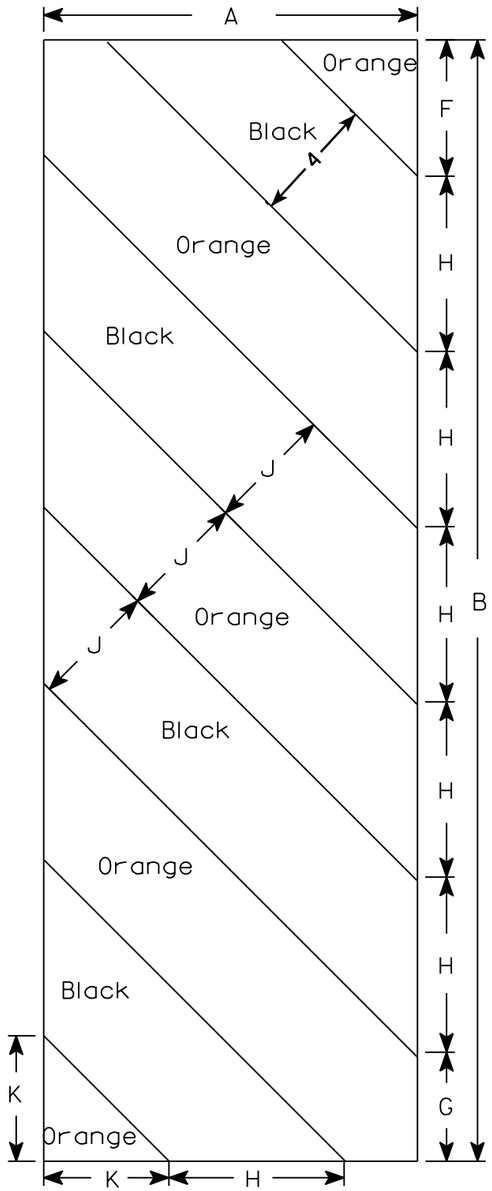
WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

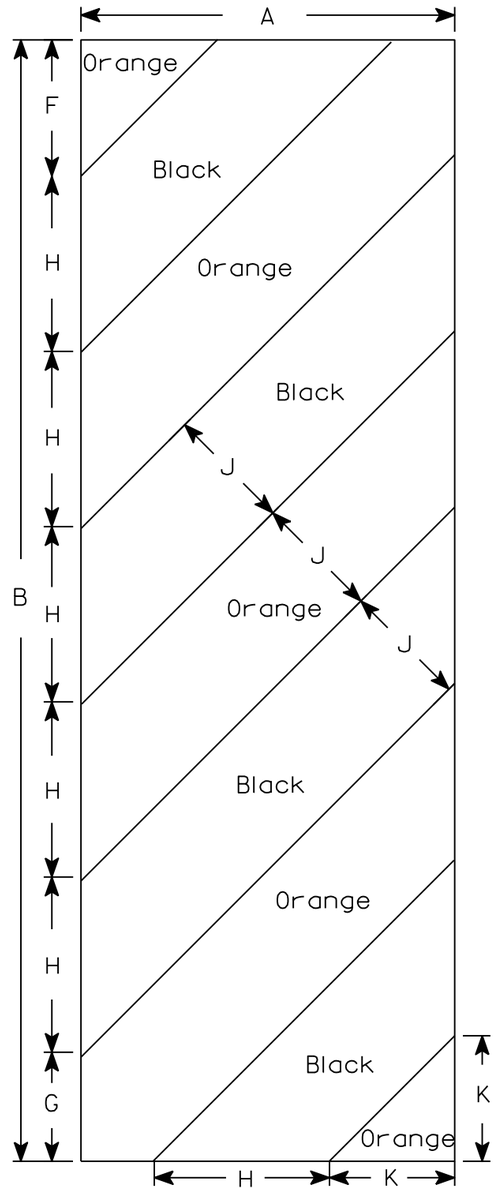
DATE 11/20/13 PLATE 441 W04-2.1

PROJECT NO:

SHEET NO: E



W05-52L



W05-52R

NOTES

1. Sign is Type II - Type F Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - Orange
   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. Alternate colors of stripes as shown.

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.
1																											
2S	12	36				4 3/8	3 1/2	5 5/8	45°	4	4																3.0
2M	12	36				4 3/8	3 1/2	5 5/8	45°	4	4																3.0
3	18	54				6	5 1/2	8 1/2	45°	6	6 9/16																6.75
4																											
5																											

STANDARD SIGN

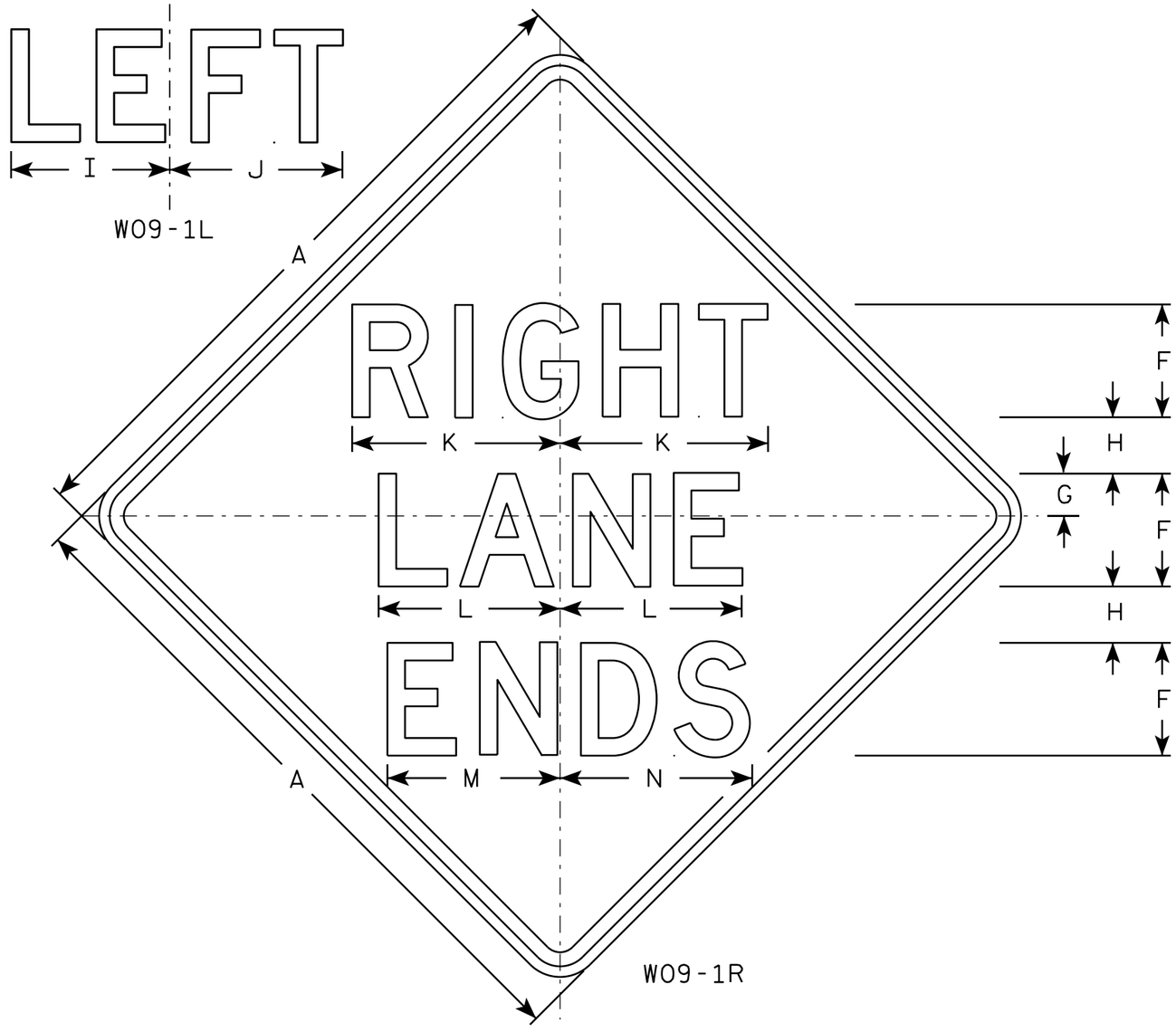
W05-52L & W05-52R

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 11/20/13 PLATE W05-52.1

PROJECT NO:	HWY:	COUNTY:		SHEET NO:	E



NOTES

1. Sign is Type II - Type F Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - Orange
   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.

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.
1	36		1 5/8	5/8	3/4	6	2	3	8 1/2	9 1/8	11	9 3/4	9	10 3/8													9.0
2S	48		2 1/4	3/4	1	8	3	4	11 1/4	12 1/4	14 3/4	12 7/8	12 1/4	13 5/8													16.0
2M	48		2 1/4	3/4	1	8	3	4	11 1/4	12 1/4	14 3/4	12 7/8	12 1/4	13 5/8													16.0
3	48		2 1/4	3/4	1	8	3	4	11 1/4	12 1/4	14 3/4	12 7/8	12 1/4	13 5/8													16.0
4	48		2 1/4	3/4	1	8	3	4	11 1/4	12 1/4	14 3/4	12 7/8	12 1/4	13 5/8													16.0
5	48		2 1/4	3/4	1	8	3	4	11 1/4	12 1/4	14 3/4	12 7/8	12 1/4	13 5/8													16.0

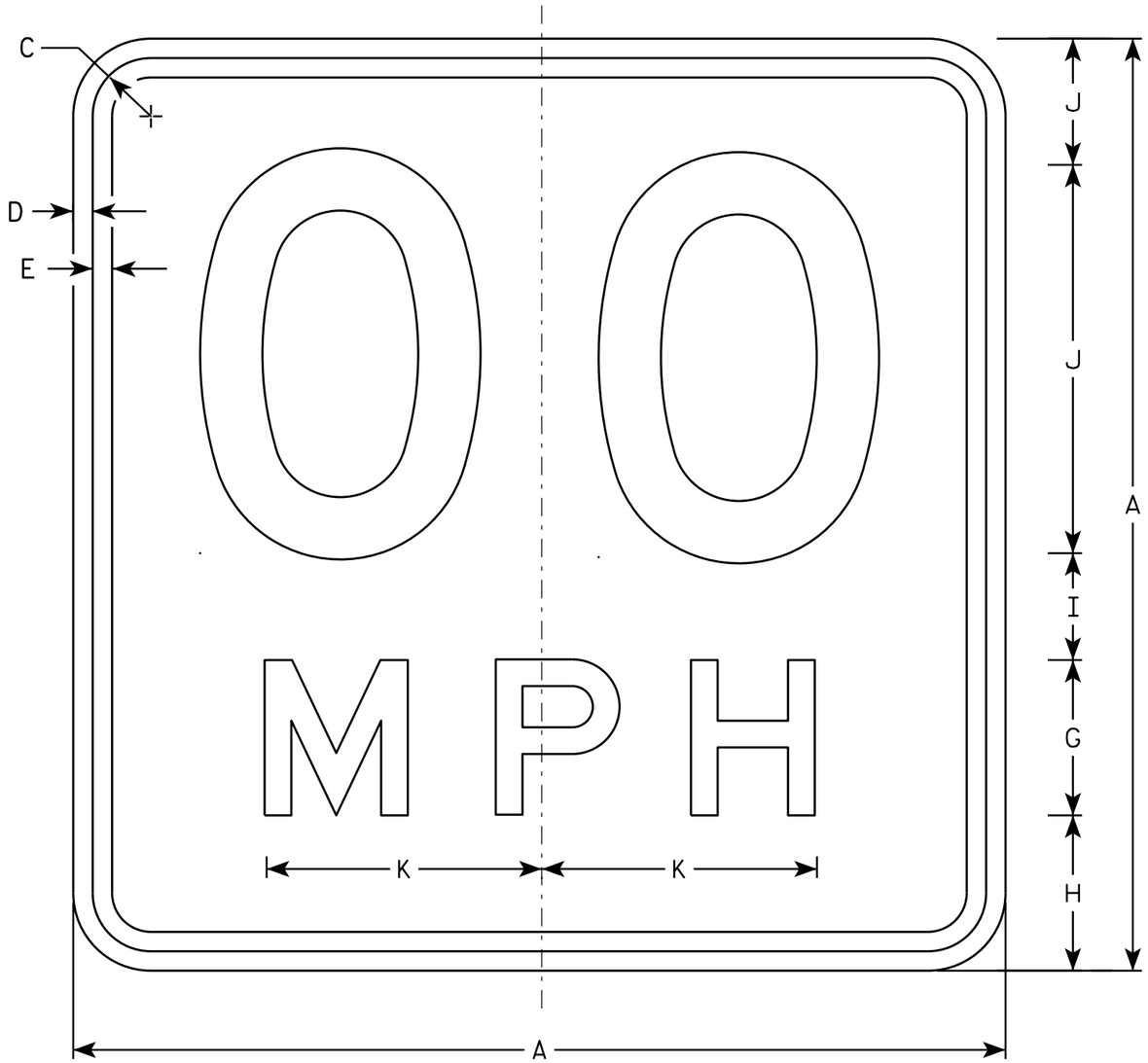
STANDARD SIGN
W09-1

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 11/20/13 PLATE W09-1.1

PROJECT NO: | SHEET NO: E



W013-1

NOTES

1. Sign is Type II - Type F Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - Orange
   Message - Black
3. Message Series - See Note 6
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 space about centerline to achieve proper balance.
6. Line 1 is Series D
   Line 2 is Series E

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.
1	24		1 1/8	3/8	1/2	10	4	4	2 3/4	3 1/4	7 1/8																4.00
2S	36		1 5/8	5/8	3/4	16	6	5 1/2	4	4 1/2	10 5/8																9.00
2M	36		1 5/8	5/8	3/4	16	6	5 1/2	4	4 1/2	10 5/8																9.00
3	36		1 5/8	5/8	3/4	16	6	5 1/2	4	4 1/2	10 5/8																9.00
4	36		1 5/8	5/8	3/4	16	6	5 1/2	4	4 1/2	10 5/8																9.00
5	36		1 5/8	5/8	3/4	16	6	5 1/2	4	4 1/2	10 5/8																9.00

STANDARD SIGN
W013-1

WISCONSIN DEPT OF TRANSPORTATION

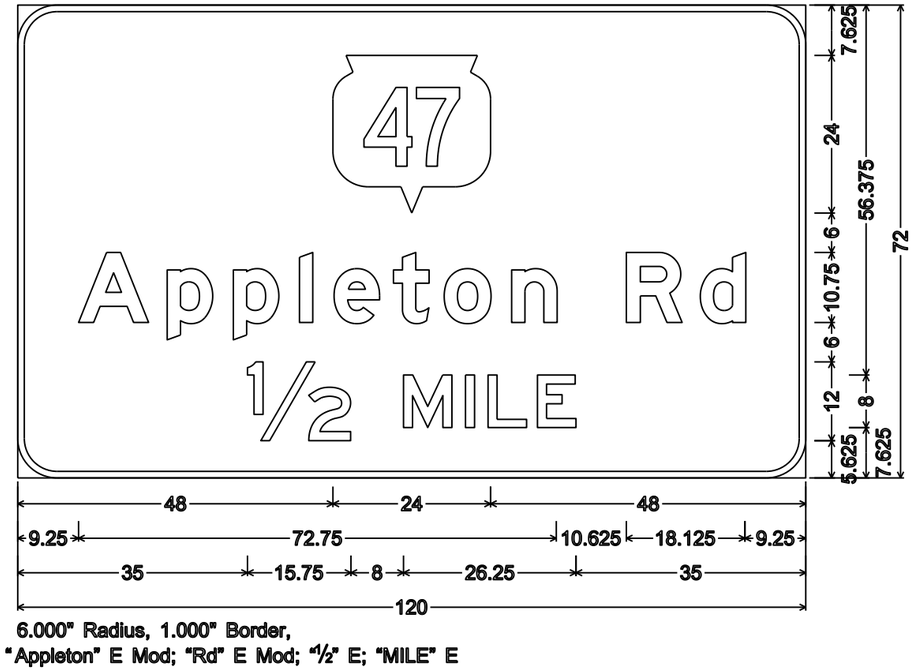
APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 11/21/13 PLATE 444 W013-1.1

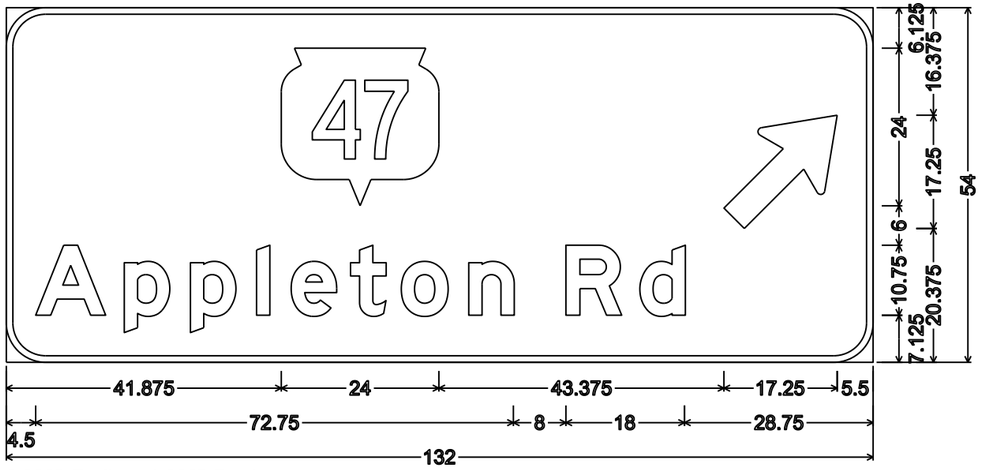
PROJECT NO:	HWY:	COUNTY:		SHEET NO:	E

NOTES

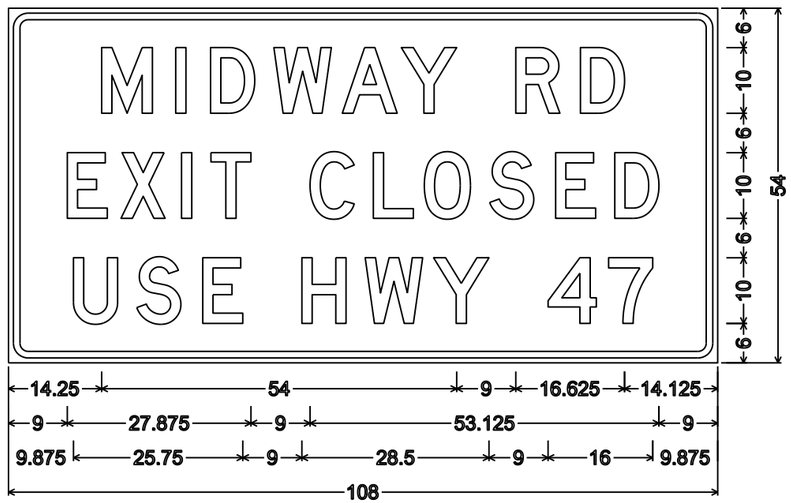
1. All Signs Type II - Type F Reflective
2. Color:
   Background - Orange
   Message - Black
3. Message Series - As noted



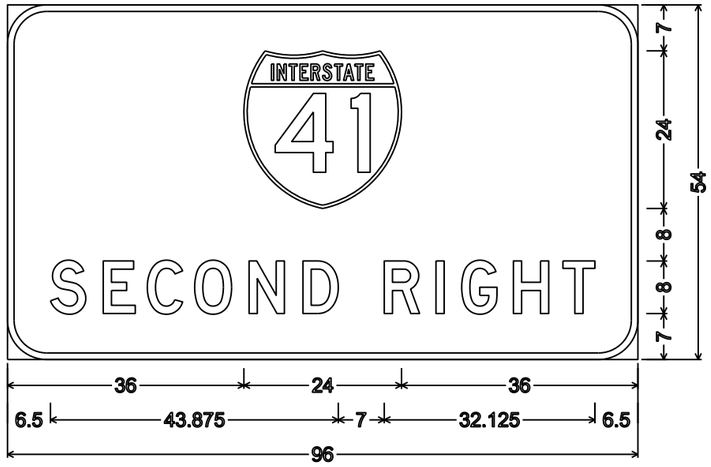
6.000" Radius, 1.000" Border,
"Appleton" E Mod; "Rd" E Mod; "½" E; "MILE" E



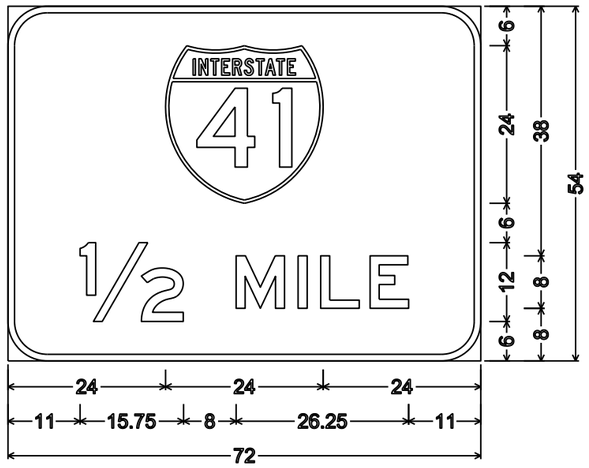
6.000" Radius, 1.000" Border,
"Appleton" E Mod; "Rd" E Mod



3.000" Radius, 1.000" Border, 0.750" Indent,
"MIDWAY" D; "RD" D; "EXIT" D; "CLOSED" D; "USE" D; "HWY" D; "47" D



6.000" Radius, 1.000" Border,
"SECOND" D; "RIGHT" D



6.000" Radius, 1.000" Border,
"½" E; "MILE" E

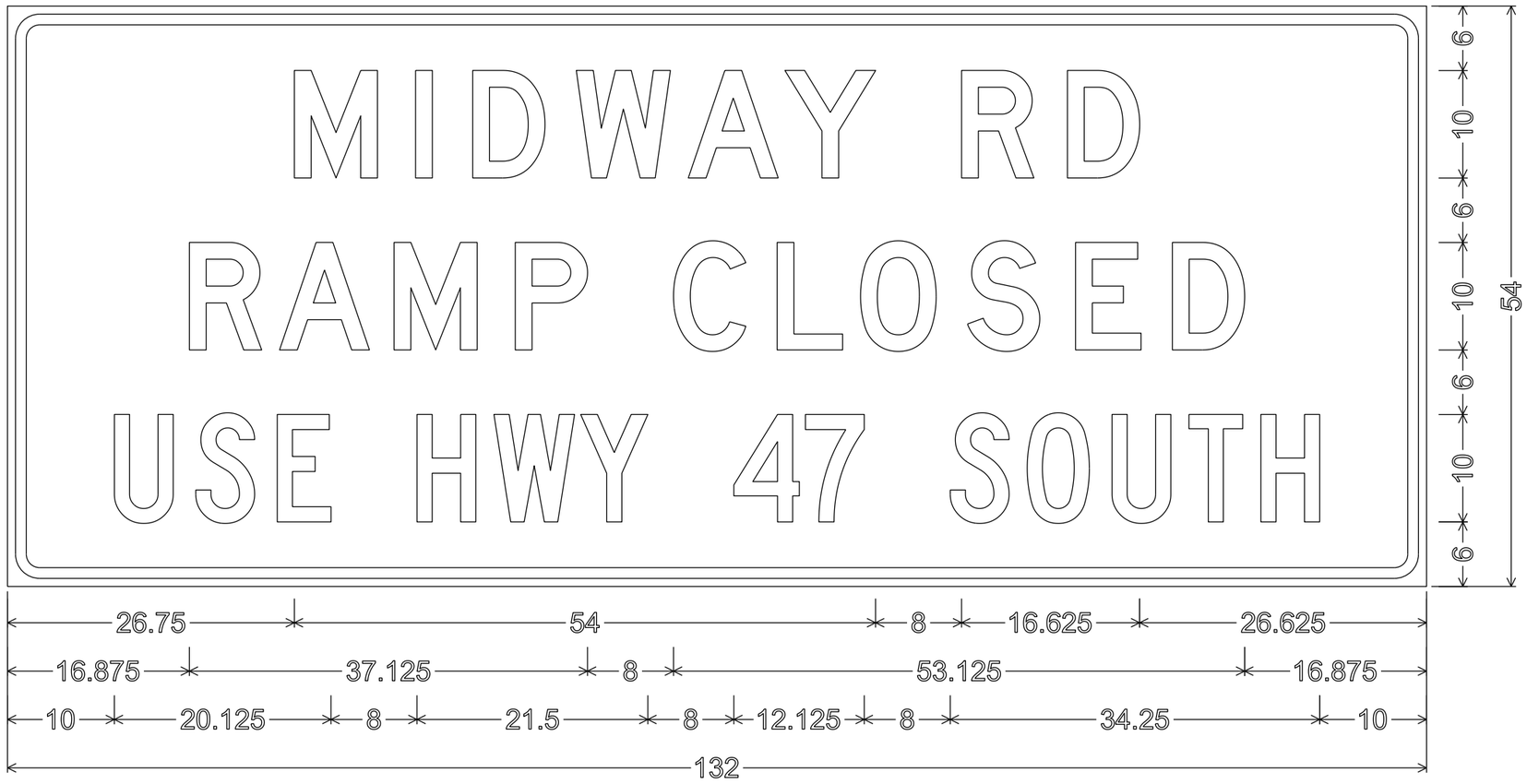
7

7

PROJECT NO: 1517-75-72	HWY: USH 10/STH 441	COUNTY: WINNEBAGO	TEMPORARY SIGNING	SHEET NO: 445	E

NOTES

1. Sign is Type II - Type F Reflective
2. Color:
   Background - Orange
   Message - Black
3. Message Series - As noted



3.000" Radius, 1.000" Border, 0.750" Indent, Black on Fluorescent orange;
"MIDWAY" D; "RD" D; "RAMP" D; "CLOSED" D; "USE" C; "HWY" C; "47" C; "SOUTH" C;

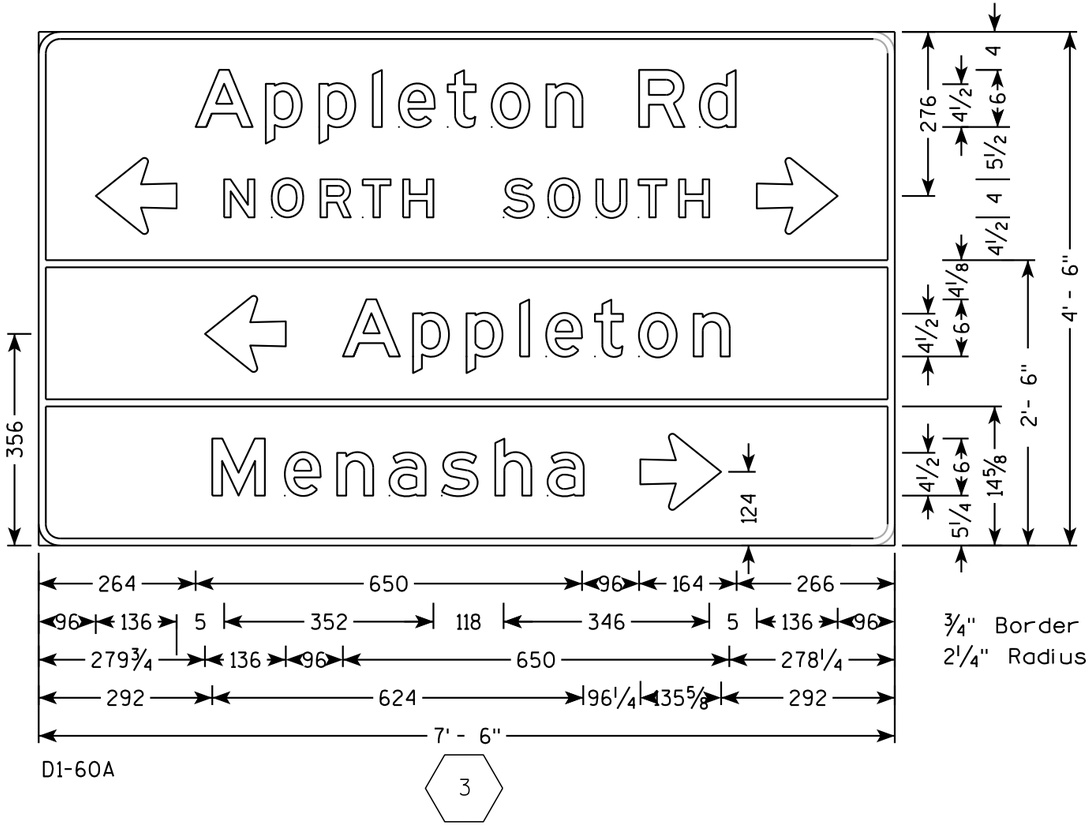
7

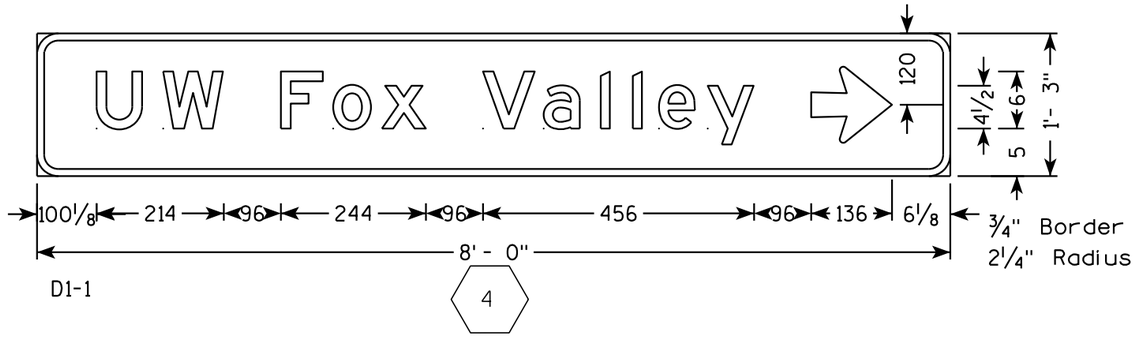
7

PROJECT NO: 1517-75-72	HWY: USH 10/STH 441	COUNTY: WINNEBAGO	FIXED MESSAGE SIGN DETAIL	SHEET NO: 446	E

NOTES

1. All Sign 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





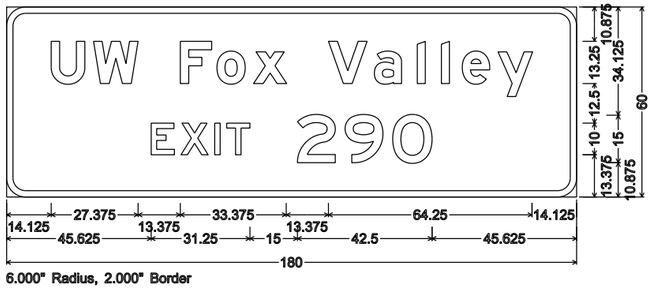
7

7

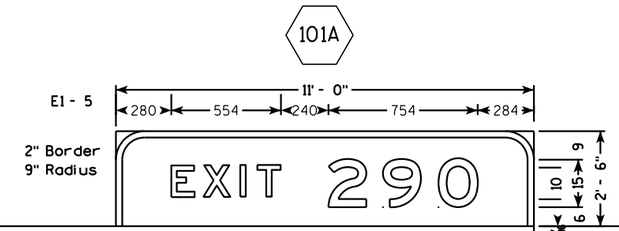
PROJECT NO: 1517-75-72	HWY: USH 10	COUNTY: WINNEBAGO	SIGN DETAILS	SHEET NO: 447	E

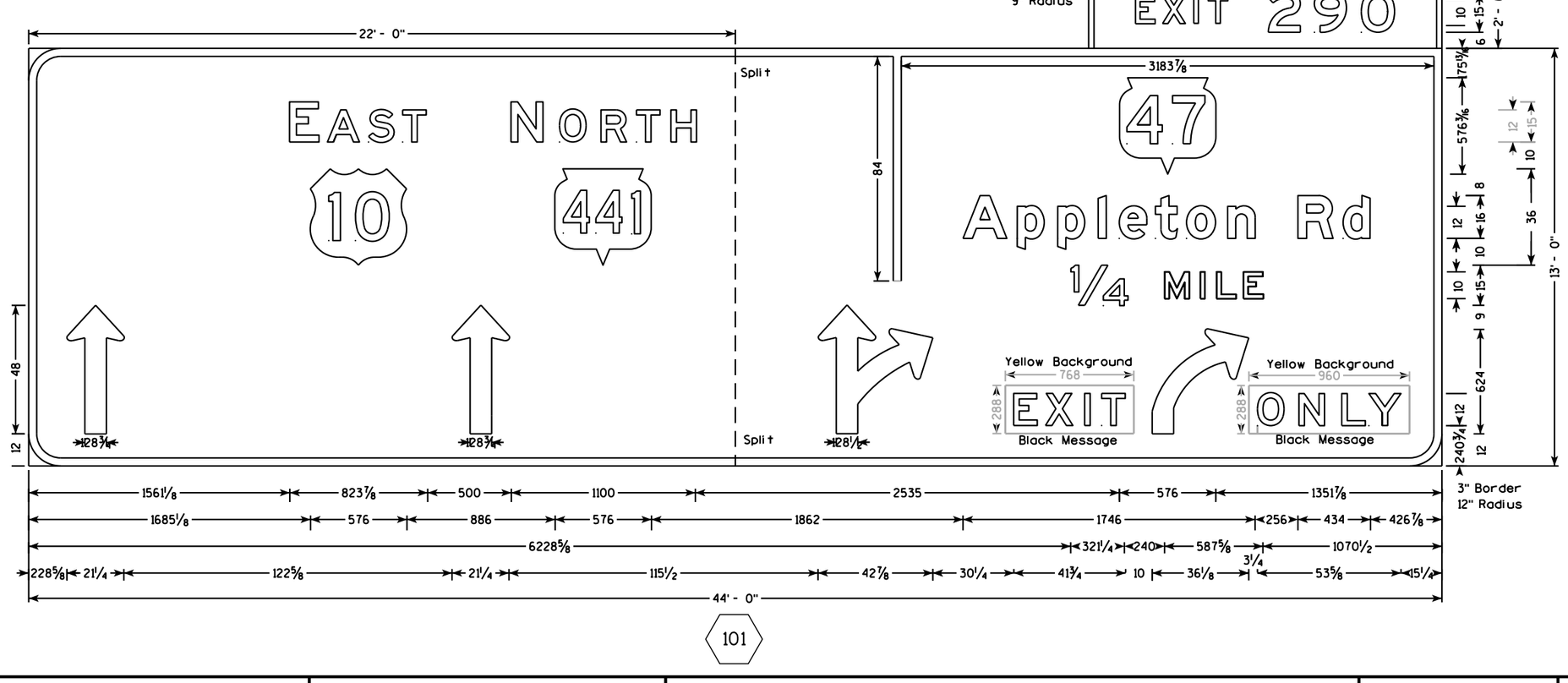
NOTES

1. All Signs are Type I - Type SH Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - Green except as Shown
   Message - White except as Shown
3. Message Series - E Modified except all cap WORDS are Series E



100



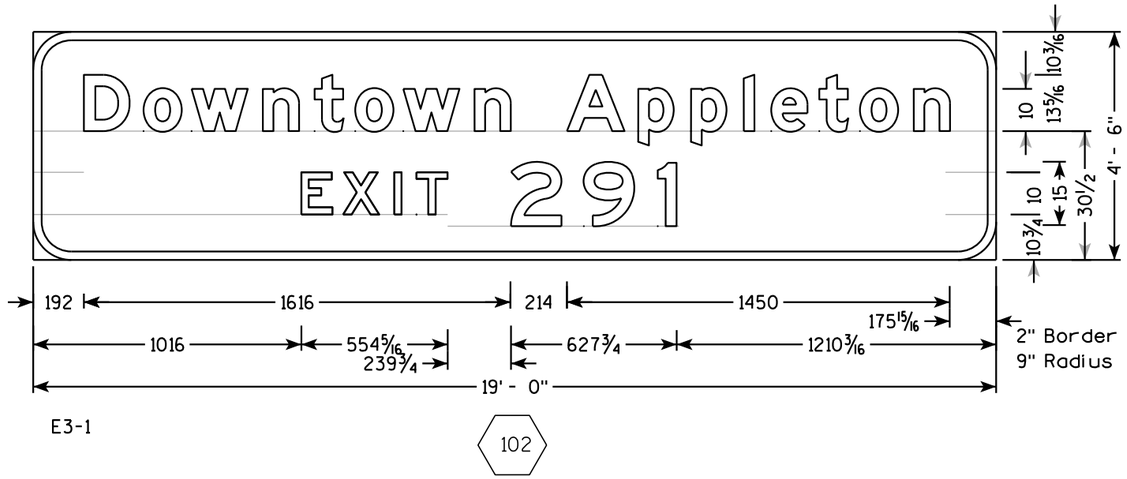


101

PROJECT NO: 1517-75-72	HWY: USH 10	COUNTY: WINNEBAGO	PERMANENT SIGNING	SHEET NO: 448	E

FILE NAME : N:\spo\traffic\SIGNING\Projects\1517-75-72 STH 441-USH 10 Racine-STH47 ML\PERMANANT SIGNING.dgn PLOT DATE : 09-FEB-2017 07:44 PLOT BY : dotets PLOT NAME : PLOT SCALE : 765.40078:1

WISDOT/CADDS SHEET 42



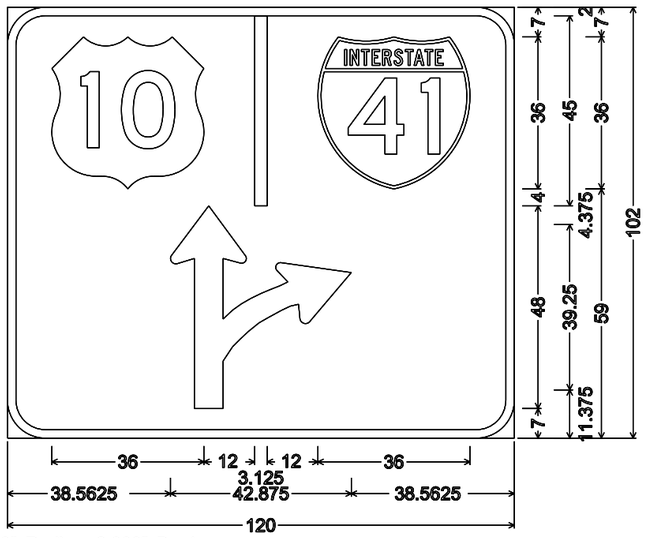
E3-1

102

NOTES

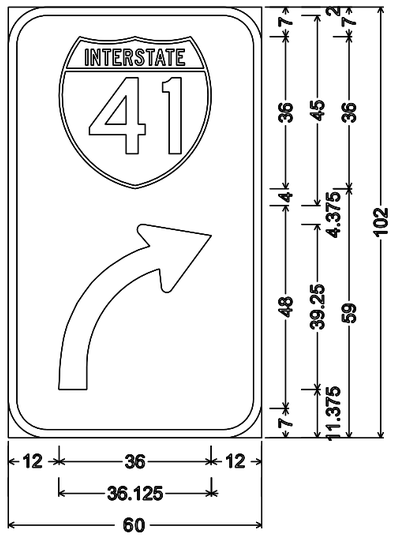
1. All Signs are Type I - Type SH Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - Green
   Message - White
3. Message Series - E Modified except all cap WORDS are Series E

100A



°.000" Radius, 2.000" Border,

100B



9.000" Radius, 2.000" Border,

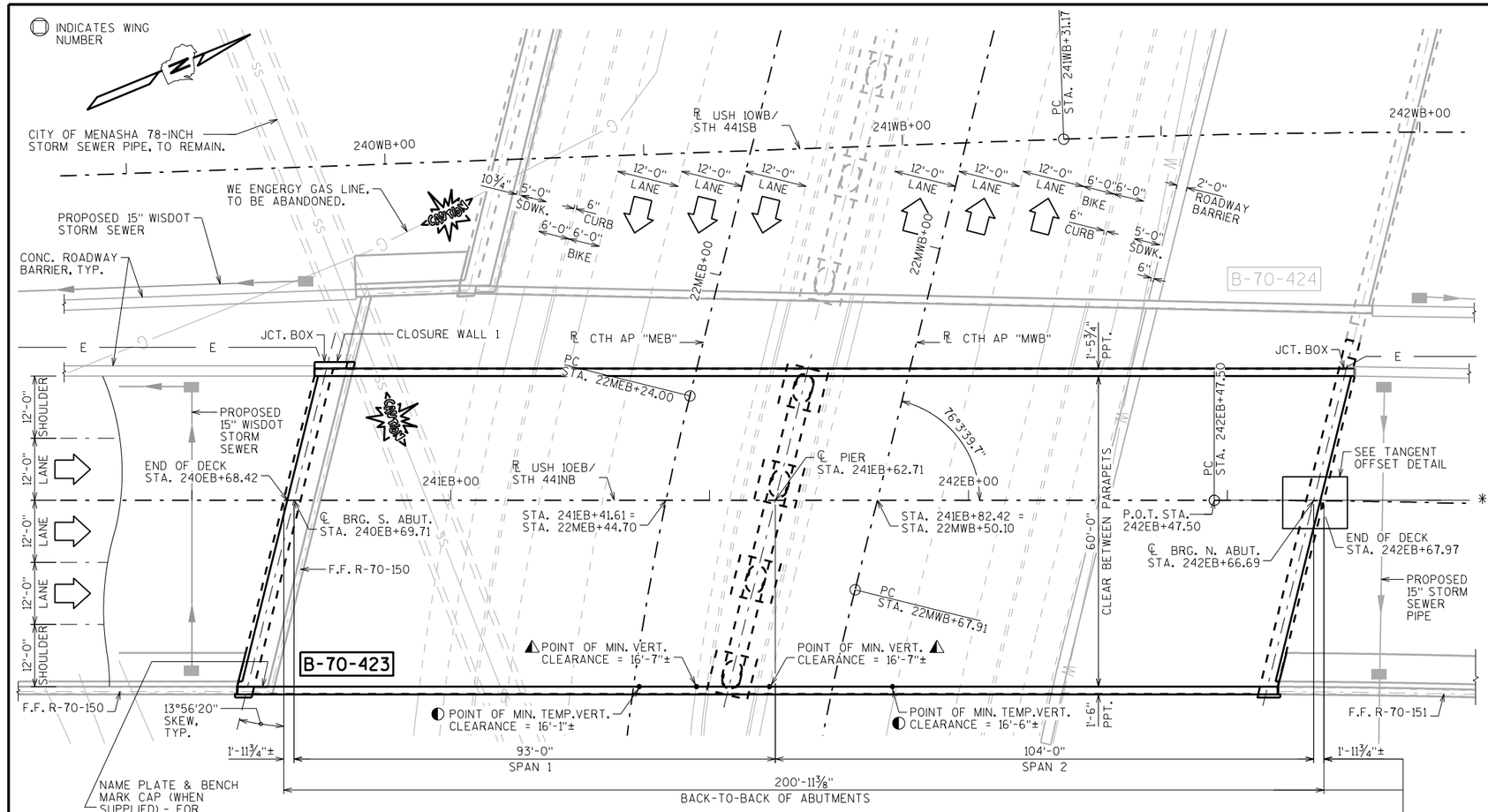
7

7

PROJECT NO: 1517-75-72	HWY: USH 10	COUNTY: WINNEBAGO	SIGN DETAILS	SHEET NO: 449	E

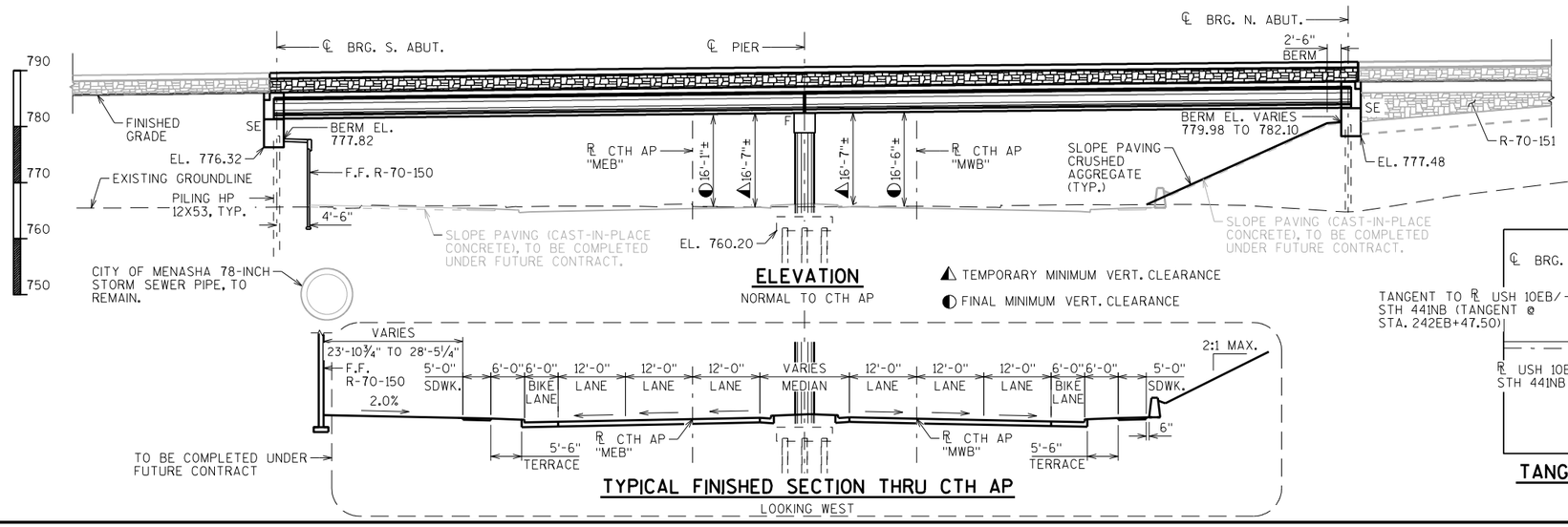
STATE PROJECT NUMBER

1517-75-72



PLAN

2-SPAN, 45W" PRESTRESSED GIRDERS



ELEVATION

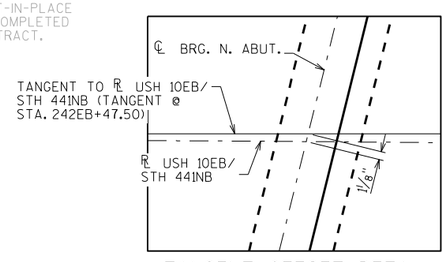
NORMAL TO CTH AP

◭ TEMPORARY MINIMUM VERT. CLEARANCE

◐ FINAL MINIMUM VERT. CLEARANCE

TYPICAL FINISHED SECTION THRU CTH AP

LOOKING WEST



TANGENT OFFSET DETAIL

NORTH ABUT. ONLY

DESIGN DATA

LIVE LOAD:

DESIGN LOADING: HL-93

INVENTORY RATING FACTOR: RF= 1.03

OPERATING RATING FACTOR: RF= 1.34

WISCONSIN STANDARD PERMIT VEHICLE (WIS.-SPV): 220(KIPS)

STRUCTURE IS DESIGNED FOR A FUTURE WEARING SURFACE OF 20 POUNDS PER SQUARE FOOT.

B-70-423 IS RATED FOR A POLYMER OVERLAY THAT WILL BE APPLIED TO THE BRIDGE DECK IN A LATER CONTRACT

MATERIAL PROPERTIES:

CONCRETE MASONRY SUPERSTRUCTURE (HPC)	f'c = 4,000 P.S.I.
CONCRETE MASONRY ALL OTHER	f'c = 4,000 P.S.I.
BAR STEEL REINFORCEMENT, GRADE 60	fy = 60,000 P.S.I.
45W" PRESTRESSED GIRDERS, CONCRETE MASONRY STRANDS - 0.6" DIA. WITH ULTIMATE TENSILE STRENGTH OF 270,000 P.S.I.	f'c = 8,000 P.S.I.

FOUNDATION DATA

ABUTMENTS TO BE SUPPORTED ON HP 12X53 PILING DRIVEN TO A REQUIRED RESISTANCE OF 220 TONS ** PER PILE AS DETERMINED BY THE MODIFIED GATES DYNAMIC FORMULA.
ESTIMATED 55'-0" LONG AT SOUTH ABUTMENT
ESTIMATED 45'-0" LONG AT NORTH ABUTMENT

PIERS TO BE SUPPORTED ON HP 12X53 PILING DRIVEN TO A REQUIRED RESISTANCE OF 220 TONS ** PER PILE AS DETERMINED BY THE MODIFIED GATES DYNAMIC FORMULA.
ESTIMATED 35'-0" LONG.

** THE FACTORED AXIAL RESISTANCE OF PILES IN COMPRESSION USED FOR DESIGN IS THE REQUIRED DRIVING RESISTANCE MULTIPLIED BY A RESISTANCE FACTOR OF 0.5 USING MODIFIED GATES TO DETERMINE DRIVEN PILE CAPACITY.

TRAFFIC VOLUME

USH 10 EB/STH 441 NB	USH 10 WB/STH 441 SB	CTH AP
A.D.T. = 32,900 (2035)	A.D.T. = 35,400 (2035)	A.D.T. = 10,700 (2035)
R.D.S. = 70 M.P.H.	R.D.S. = 70 M.P.H.	R.D.S. = 40 M.P.H.

SEE SHEET 2 FOR CURVE DATA

LIST OF DRAWINGS

1. GENERAL PLAN
2. QUANTITIES, NOTES & PROFILES
3. CROSS SECTIONS
4. SUBSURFACE EXPLORATION
5. SOUTH ABUTMENT
6. SOUTH ABUTMENT DETAILS
7. NORTH ABUTMENT
8. NORTH ABUTMENT DETAILS
9. PIER
10. PIER DETAILS
11. 45W" PRESTRESSED GIRDER DETAILS 1
12. 45W" PRESTRESSED GIRDER DETAILS 2
13. STEEL DIAPHRAGM
14. SUPERSTRUCTURE CROSS SECTION
15. SUPERSTRUCTURE PLAN
16. SUPERSTRUCTURE DETAILS
17. SUPERSTRUCTURE BARS
18. ELECTRICAL DETAILS
19. AESTHETICS 1
20. AESTHETICS 2
21. ALTERNATE CONST. JOINT
22. SLOPE PAVING

STRUCTURE DESIGN CONTACTS:

EMILY KUEHNE (608)266-5089

AARON BONK (608)261-0261

NO.	DATE	REVISION	BY

WISCONSIN DEPARTMENT OF TRANSPORTATION

BUREAU OF STRUCTURES

ACCEPTED William C. Dreher 2/13/17

CHIEF STRUCTURES DESIGN ENGINEER — DATE

STRUCTURE B-70-423

USH 10 EB/STH 441 NB OVER CTH AP

COUNTY	CITY
WINNEBAGO	MENASHA

DESIGN SPEC. AASHTO LRFD DESIGN SPEC.

DESIGNED BY	DESIGNED CK'D.	DRAWN BY	PLANS CK'D.
EMK	BH	EMK	ABS

GENERAL PLAN

SHEET 1 OF 22

450

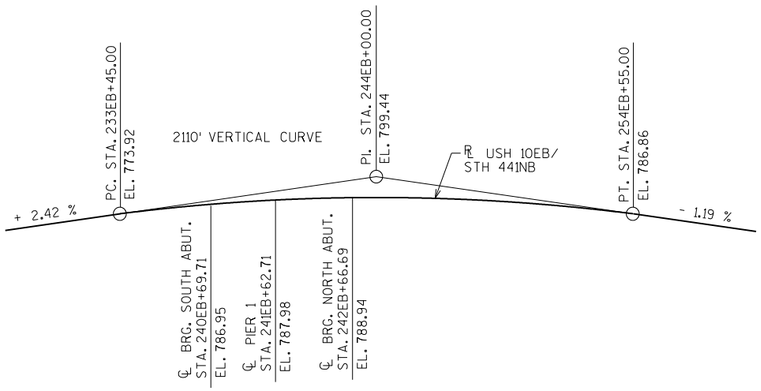
I.D. 1517-07-041

DATE: FEB. 2017

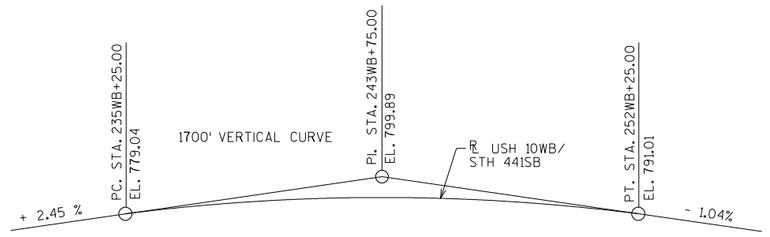
SCALE = 12.50

STATE PROJECT NUMBER

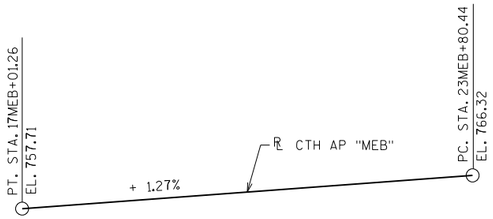
1517-75-72



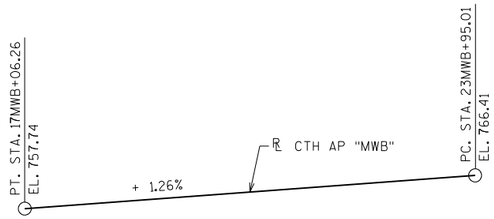
PROFILE GRADE LINE USH 10EB/STH 441NB



PROFILE GRADE LINE USH 10WB/STH 441SB



PROFILE GRADE LINE CTH AP "MEB"



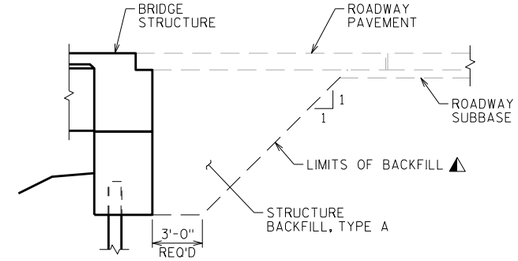
PROFILE GRADE LINE CTH AP "MWB"

CURVE DATA

℄ CTH AP "MEB"	℄ CTH AP "MWB"
P.I. = 24MEB+15.03	P.I. = 24MEB+54.72
△ = 38° 18' 27"	△ = 36° 03' 16"
D = 10° 25' 03"	D = 9° 58' 55"
T = 191.03	T = 186.81
L = 367.72'	L = 361.20'
R = 550.00'	R = 574.00'
P.C. = 22MEB+24.00	P.C. = 22MWB+67.91
P.T. = 25MEB+91.73	P.T. = 26MWB+29.11

USH 10 EB/STH 441 NB

P.I. = 256EB+56.08
△ = 68° 21' 56"
D = 2° 45' 45"
T = 1408.58'
L = 2474.71'
R = 2074.00'
S.E. = 6.0 %
P.C. = 242EB+47.50
P.T. = 267EB+22.20



TYPICAL SECTION
THRU ABUTMENT

⚠ BACKFILL PAY LIMITS. BACKFILL BEYOND BACKFILL PAY LIMITS SHALL BE INCIDENTAL TO EXCAVATION FOR STRUCTURES. LIMITS OF EXCAVATION SHALL BE DETERMINED BY THE CONTRACTOR.

TOTAL ESTIMATED QUANTITIES

BID ITEM NUMBER	BID ITEMS	UNIT	SUPER.	SOUTH ABUT.	PIER	NORTH ABUT.	TOTALS
206.1000	EXCAVATION FOR STRUCTURES BRIDGES B-70-423	LS	———	———	———	———	1
210.1500	BACKFILL STRUCTURE TYPE A	TON	———	382	———	423	805
501.1000.S	ICE HOT WEATHER CONCRETING	LB	3,820	360	715	435	5,330
502.3200	PROTECTIVE SURFACE TREATMENT	SY	1,355	———	———	———	1,355
502.3210	PIGMENTED SURFACE SEALER	SY	220	———	———	———	220
503.0146	PRESTRESSED GIRDER TYPE I 45W-INCH	LF	1,582	———	———	———	1,582
505.0400	BAR STEEL REINFORCEMENT HS STRUCTURES	LB	———	4,100	1,840	4,480	10,420
505.0600	BAR STEEL REINFORCEMENT HS COATED STRUCTURES	LB	106,650	360	20,610	370	127,990
506.2605	BEARING PADS ELASTOMERIC NON-LAMINATED	EACH	32	———	———	———	32
506.4000	STEEL DIAPHRAGMS B-70-423	EACH	28	———	———	———	28
516.0500	RUBBERIZED MEMBRANE WATERPROOFING	SY	30	3	———	4	37
517.1010.S	CONCRETE STAINING B-70-423	SF	2,805	365	1,760	385	5,315
517.1050.S	ARCHITECTURAL SURFACE TREATMENT B-70-423	SF	505	———	205	265	975
550.0010	PRE-BORING (UNCONSOLIDATED MATERIALS)	LF	———	60	———	———	60
550.1120	PILING STEEL HP 12-INCH X 53LB	LF	———	660	1,120	675	2,455
604.0400	SLOPE PAVING CONCRETE	SY	———	18	———	———	18
604.0600	SLOPE PAVING SELECT CRUSHED MATERIAL	SY	———	———	———	320	320
612.0406	PIPE UNDERDRAIN WRAPPED 6-INCH	LF	———	———	———	70	70
652.0125	CONDUIT RIGID METALLIC 2-INCH	LF	220	———	———	———	220
SPV.0035	MODIFIED HIGH PERFORMANCE CONCRETE (HPC) MASONRY BRIDGES	CY	509	48	95	58	710
SPV.0060	JUNCTION BOXES FIBERGLASS 18X12X12-INCH	EACH	2	———	———	———	2
	NON-BID ITEMS						
	FILLER	SIZE	———	———	———	———	½", ¾", 1", 1½"
				———	———	———	———	———

GENERAL NOTES

DRAWINGS SHALL NOT BE SCALED.

BAR STEEL REINFORCEMENT SHALL BE EMBEDDED 2" CLEAR UNLESS OTHERWISE SHOWN OR NOTED.

THE FIRST OR FIRST TWO DIGITS OF THE BAR MARK SIGNIFIES THE BAR SIZE.

BEVEL EXPOSED EDGES OF CONCRETE ¾"UNLESS OTHERWISE NOTED.

⚠ AT THE BACK FACE OF ABUTMENT ALL VOLUME WHICH CANNOT BE PLACED BEFORE ABUTMENT CONSTRUCTION AND IS NOT OCCUPIED BY THE NEW STRUCTURE SHALL BE BACKFILLED WITH STRUCTURE BACKFILL.

ELASTOMERIC BEARING PADS NEED NOT BE INDIVIDUALLY MOLDED PROVIDED THE CUT EDGES ARE SMOOTH AND TRUE.

THE QUANTITY FOR BACKFILL STRUCTURE IS CALCULATED BASED ON THE DETAIL SHOWN IN THE PLANS.

PROTECTIVE SURFACE TREATMENT TO BE APPLIED TO THE ENTIRE EXPOSED TOP OF DECK AND TO THE VERTICAL AND HORIZONTAL SURFACES OF THE PAVING NOTCHES AT ABUTMENT DIAPHRAGMS.

PIGMENTED SURFACE SEALER TO BE APPLIED TO THE FRONT FACE AND THE TOP OF THE PARAPETS.

THE SLOPE OF THE FILL IN FRONT OF THE ABUTMENTS SHALL BE COVERED WITH SLOPE PAVING MATERIAL TO THE EXTENT SHOWN ON SHEET 1 AND THE ABUTMENT DETAILS.

THE HAUNCH CONCRETE QUANTITY IS BASED ON THE AVERAGE HAUNCH SHOWN ON THE "45W PRESTRESSED GIRDER DETAILS 2" SHEET.

THE CONCRETE QUANTITY FOR ALL SUPERSTRUCTURE AND SUBSTRUCTURE CONCRETE (EXCLUDING THE GIRDERS) SHALL BE PAID FOR UNDER THE BID ITEM "MODIFIED HIGH PERFORMANCE CONCRETE (HPC) MASONRY BRIDGES".

TRANSVERSE TINING OF THE BRIDGE DECK SHALL BE DONE BY HAND AND SHALL BE PAID FOR UNDER BID ITEM "MODIFIED HIGH PERFORMANCE (HPC) MASONRY BRIDGES."

THE EXISTING GROUND LINE SHALL BE USED AS THE UPPER LIMITS OF EXCAVATION AT THE PIER.

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
STRUCTURES DESIGN SECTION

STRUCTURE B-70-423

DRAWN BY EMK | PLANS CK'D. ABS

QUANTITIES, NOTES & PROFILES

SHEET 2

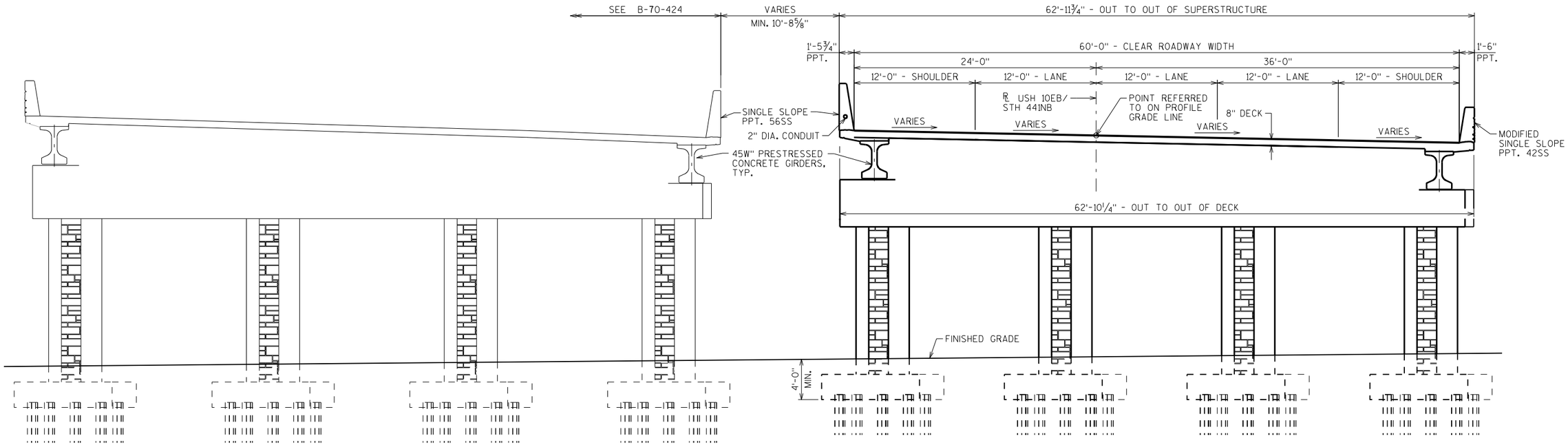
451

8

8

SCALE = 1.00

STATE PROJECT NUMBER
1517-75-72



CROSS SECTION THRU ROADWAY LOOKING NORTH
B-70-424

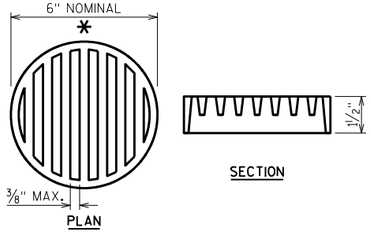
CROSS SECTION THRU ROADWAY LOOKING NORTH
B-70-423

STATION	DESCRIPTION	LEFT OUTSIDE SHOULDER	LEFT OUTSIDE LANE	INSIDE LANE	RIGHT INSIDE LANE	RIGHT INSIDE SHOULDER
		← CROWN			℄ USH 10WB/STH 441SB →	
239WB+36.53	LEVEL CROWN	0.0%	0.0%	0.0%	0.0%	0.0%
240WB+56.53	REVERSE CROWN	2.0% →	2.0% →	2.0% →	2.0% →	2.0% →
242WB+42.49	BEGIN SHOULDER BREAK	5.1% →	5.1% →	5.1% →	5.1% →	5.1% →

USH 10WB/STH 441SB SUPERELEVATION TRANSITION
FOR INFORMATION ONLY, SEE ROADWAY PLANS FOR DETAILS

STATION	DESCRIPTION	LEFT INSIDE SHOULDER	LEFT INSIDE LANE	INSIDE LANE	RIGHT OUTSIDE LANE	RIGHT OUTSIDE SHOULDER
		℄ USH 10EB/STH 441NB →			← CROWN	
239EB+16.23	LEVEL CROWN	0.0%	0.0%	0.0%	0.0%	2.0% →
240EB+36.23	REVERSE CROWN	2.0% →	2.0% →	2.0% →	2.0% →	2.0% →
243EB+08.79	BEGIN SHOULDER BREAK	5.3% →	5.3% →	5.3% →	5.3% →	5.3% →

USH 10EB/STH 441NB SUPERELEVATION TRANSITION
FOR INFORMATION ONLY, SEE ROADWAY PLANS FOR DETAILS



* DIMENSIONS ARE APPROXIMATE. THE GRATE IS SIZED TO FIT INTO A PIPE COUPLING. ORIENT SO SLOTS ARE VERTICAL.

THE RODENT SHIELD, PIPE COUPLING AND SCREWS SHALL BE CONSIDERED INCIDENTAL TO THE BID ITEM "PIPE UNDERDRAIN WRAPPED 6-INCH".

THE RODENT SHIELD SHALL BE A PVC GRATE SIMILAR TO THIS DETAIL. THE GRATE IS COMMERCIALLY AVAILABLE AS A FLOOR STRAINER. A PIPE COUPLING IS REQUIRED FOR THE ATTACHMENT OF THIS SHIELD TO THE EXPOSED END OF THE PIPE UNDERDRAIN. THE SHIELD SHALL BE FASTENED TO THE PIPE COUPLING WITH TWO OR MORE NO. 10 X 1-INCH STAINLESS STEEL SHEET METAL SCREWS.

RODENT SHIELD DETAIL

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
STRUCTURES DESIGN SECTION

STRUCTURE B-70-423

DRAWN BY EMK | PLANS CK'D. ABS

CROSS SECTIONS

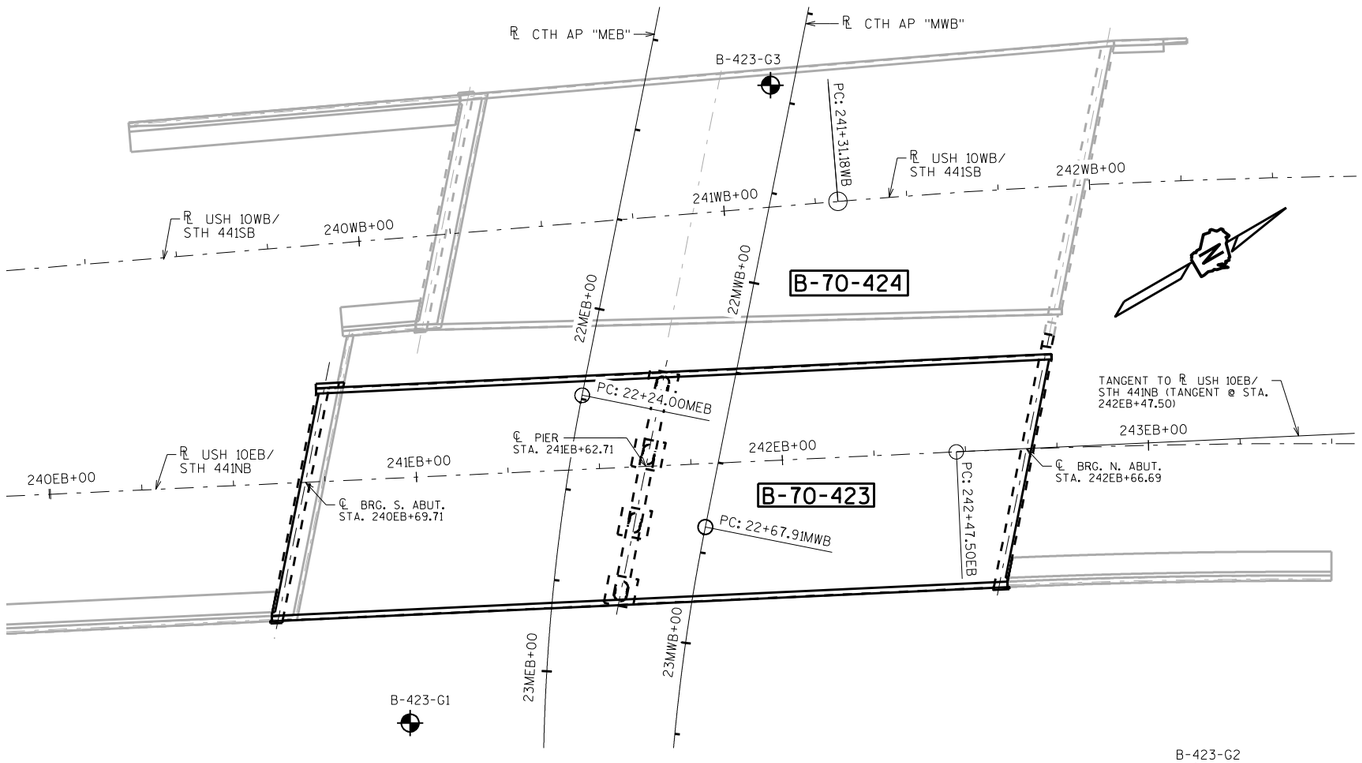
SHEET 3

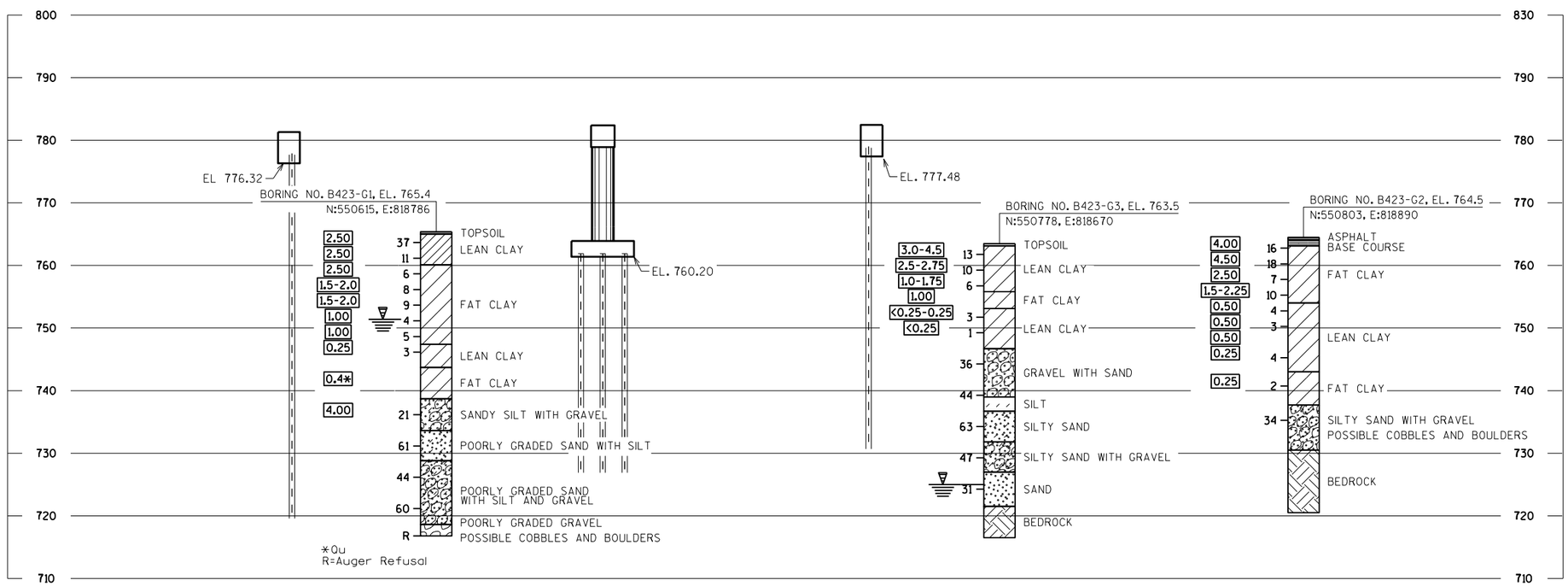
452

SCALE = 5.00

8

8





NOTES:

THE SUBSURFACE INFORMATION PRESENTED HEREIN IS AN ABBREVIATED VERSION OF THE INFORMATION PRESENTED IN THE GEOTECHNICAL ENGINEERING REPORT. REVIEW THE APPROPRIATE GEOTECHNICAL REPORT AND SOIL BORING LOGS FOR ADDITIONAL SUBSURFACE INFORMATION.

WATER LEVELS INDICATED MAY NOT BE REPRESENTATIVE OF STATIC WATER LEVELS.

HISTORICAL BORING LOCATIONS ARE APPROXIMATE. ADDITIONAL INFORMATION IS AVAILABLE FROM THE WISCONSIN DEPARTMENT OF TRANSPORTATION.

⌖ DENOTES SOIL BORING LOCATION

SOIL BORINGS COMPLETED BY:
HNTB

SOIL BORING TAKEN:

FEBRUARY 9, 2012 - BORING B423-G1
FEBRUARY 20, 2012 - BORING B423-G2
DECEMBER 18, 2012 - BORING B423-G3

STATE PROJECT NUMBER

1517-75-72

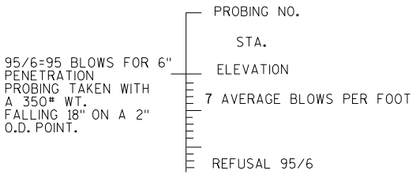
ABBREVIATIONS

F — FINE M — MEDIUM C — COARSE
WS — WEATHERED SO — SOUND

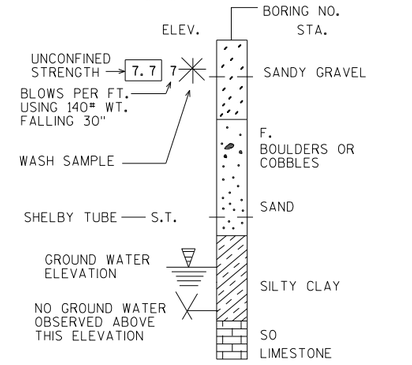
MATERIAL SYMBOLS

TOPSOIL / FILL, SAND, GRAVEL, SILT, PEAT, CLAY, SANDSTONE, LIMESTONE, IGNEOUS ROCK

LEGEND OF PROBING



LEGEND OF BORING



UNLESS OTHERWISE SPECIFIED, THE BLOWS PER FOOT AT THE LOCATIONS INDICATED ARE BASED ON DRIVING A 2" O.D. X 1.4" I.D. SPLIT SPOON SAMPLER WITH A 140# HAMMER HAVING A FREE FALL OF 30". THE BLOW COUNT IS TAKEN IN UNDISTURBED SOIL IMMEDIATELY BELOW A CASED OR OPEN HOLE ELIMINATING SIDE FRICTION ON THE DRIVE PIPE.

SUBSURFACE EXPLORATION FOR FOUNDATION DESIGN AND BIDDERS INFORMATION

BORINGS WERE COMPLETED AT POINTS APPROXIMATELY AS INDICATED ON THIS DRAWING TO OBTAIN INFORMATION CONCERNING THE CHARACTER OF SUBSURFACE MATERIALS FOUND AT THE SITE. BECAUSE THE INVESTIGATED DEPTHS ARE LIMITED AND THE AREA OF THE BORINGS IS VERY SMALL IN RELATION TO THE ENTIRE SITE, THE WISCONSIN DEPARTMENT OF TRANSPORTATION DOES NOT WARRANT SIMILAR SUBSURFACE CONDITIONS BELOW, BETWEEN, OR BEYOND THESE BORINGS. VARIATIONS IN SOIL CONDITIONS SHOULD BE EXPECTED AND FLUCTUATIONS IN GROUNDWATER LEVELS MAY OCCUR.

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
STRUCTURES DESIGN SECTION

STRUCTURE B-70-423

DRAWN BY DB/EMK | PLANS CK'D. ABS

SUBSURFACE EXPLORATION

SHEET 4

453

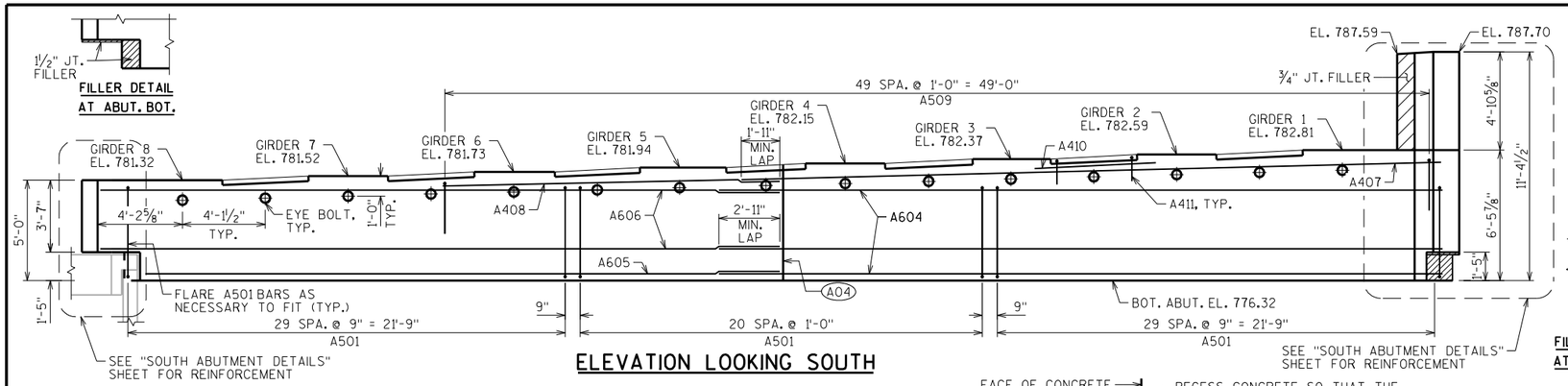
SCALE = 1.67

8

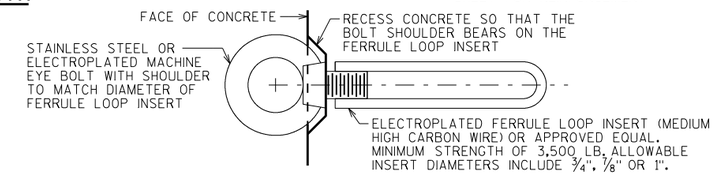
8

STATE PROJECT NUMBER

1517-75-72

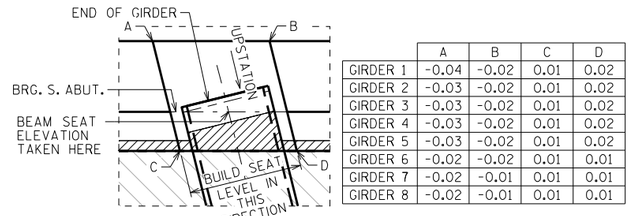


ELEVATION LOOKING SOUTH



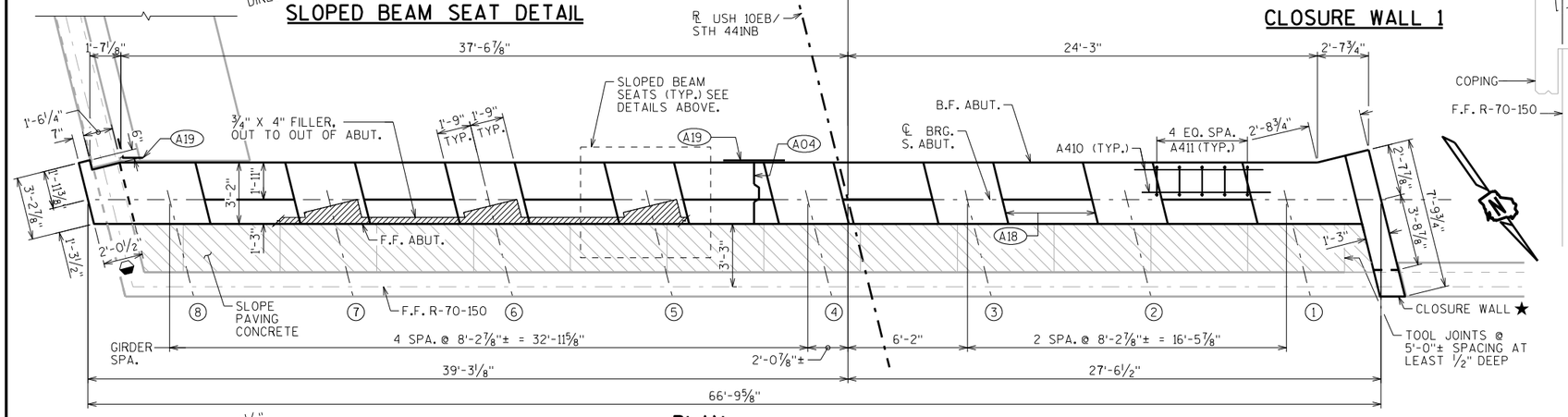
EYE BOLT DETAIL

COST INCIDENTAL TO BID ITEM "MODIFIED HIGH PERFORMANCE CONCRETE (HPC) BRIDGES".

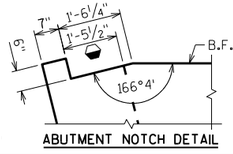


	A	B	C	D
GIRDER 1	-0.04	-0.02	0.01	0.02
GIRDER 2	-0.03	-0.02	0.01	0.02
GIRDER 3	-0.03	-0.02	0.01	0.02
GIRDER 4	-0.03	-0.02	0.01	0.02
GIRDER 5	-0.03	-0.02	0.01	0.02
GIRDER 6	-0.02	-0.02	0.01	0.01
GIRDER 7	-0.02	-0.01	0.01	0.01
GIRDER 8	-0.02	-0.01	0.01	0.01

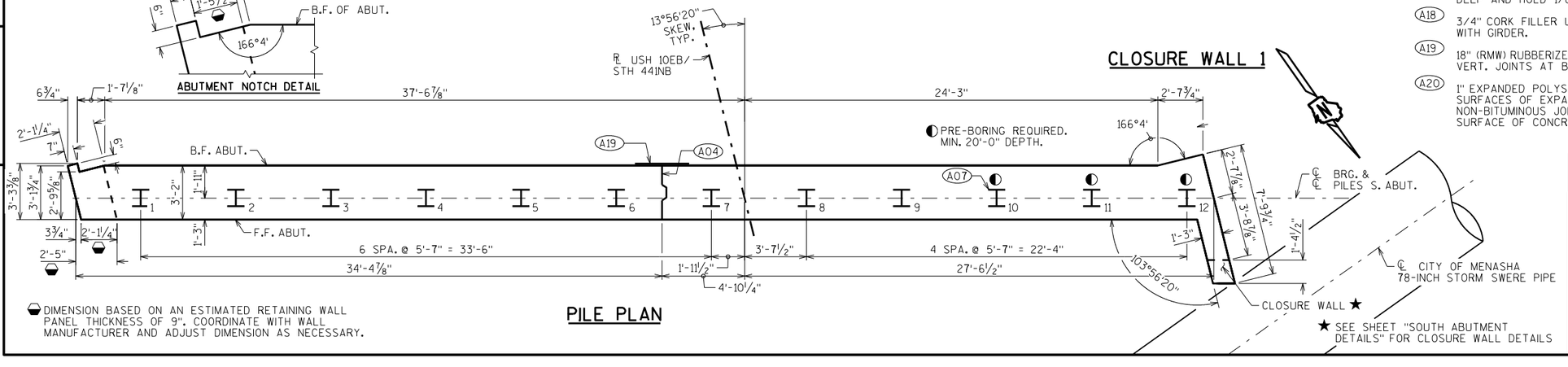
SLOPED BEAM SEAT DETAIL



PLAN



ABUTMENT NOTCH DETAIL

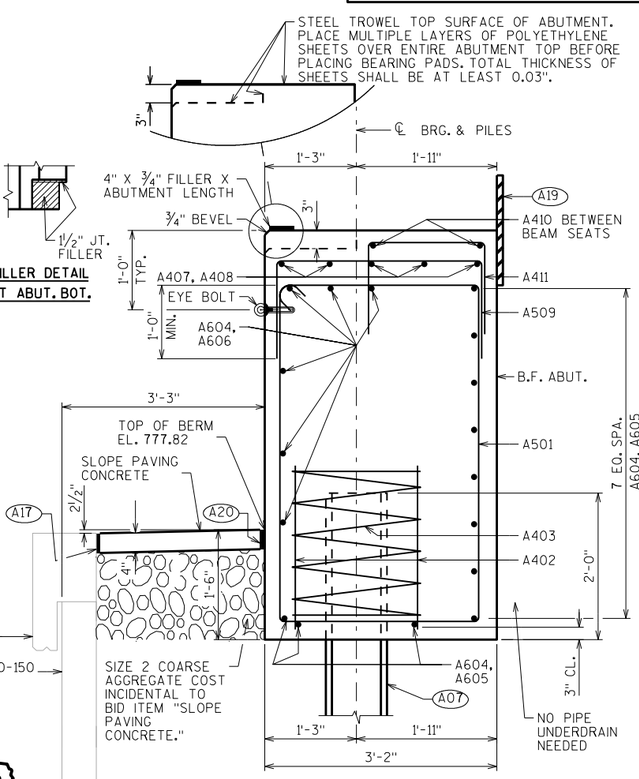


CLOSURE WALL 1

★ SEE SHEET "SOUTH ABUTMENT DETAILS" FOR CLOSURE WALL DETAILS

● DIMENSION BASED ON AN ESTIMATED RETAINING WALL PANEL THICKNESS OF 9". COORDINATE WITH WALL MANUFACTURER AND ADJUST DIMENSION AS NECESSARY.

PILE PLAN



SECTION THRU BODY

(A04) VERT. CONST. JOINT: KEYWAY FORMED BY A BEVELED 2 X 8. 3/4" "V" GROOVE @ THE FRONT FACE AND 18" RMW @ BACKFACE. FOR OPTIONAL DETAILS SEE "ALTERNATE CONSTRUCTION JOINT" SHEET.

(A07) SUPPORT ABUTMENT ON HP 12 X 53 STEEL PILING, ESTIMATED 55'-0" LONG WITH A REQUIRED DRIVING RESISTANCE OF 220 TONS PER PILE. SEE "PIER DETAILS" SHEET FOR PILE SPLICE DETAILS.

(A17) 1/2" FILLER: SEAL ALL EXPOSED HORIZ. & VERT. SURFACES OF 1/2" FILLER WITH NON-STAINING GRAY NON-BITUMINOUS JOINT SEALER. (1" DEEP AND HOLD 1/8" BELOW SURFACE OF CONCRETE).

(A18) 3/4" CORK FILLER UP VERT. BEAM SEAT FACES THAT RUN PARALLEL WITH GIRDER.

(A19) 18" (RMW) RUBBERIZED MEMBRANE WATERPROOFING SEAL ALL HORIZ. & VERT. JOINTS AT BACKFACE.

(A20) 1" EXPANDED POLYSTYRENE: SEAL ALL EXPOSED HORIZ. & VERT. SURFACES OF EXPANDED POLYSTYRENE WITH NON-STAINING, GRAY NON-BITUMINOUS JOINT SEALER. (1" DEEP AND HOLD 1/8" BELOW SURFACE OF CONCRETE).

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
STRUCTURES DESIGN SECTION

STRUCTURE B-70-423

DRAWN BY EMK | PLANS CK'D. ABS

SOUTH ABUTMENT

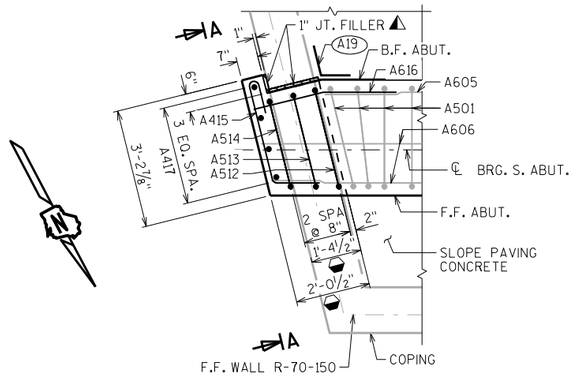
SHEET 5

454

SCALE = 3.50

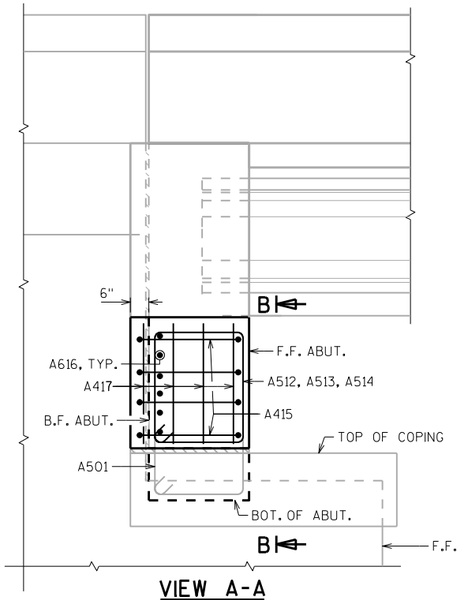
STATE PROJECT NUMBER

1517-75-72

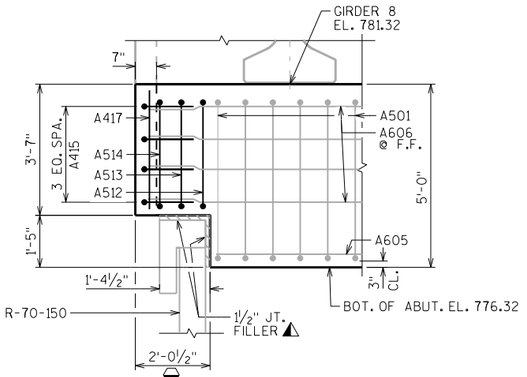


PLAN VIEW OF ABUT. CORNER

SHOWING SOUTH EAST END OF SOUTH ABUTMENT

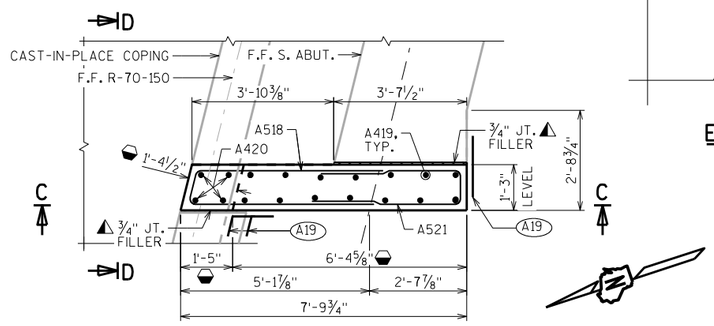


VIEW A-A
END OF ABUT. DETAILS

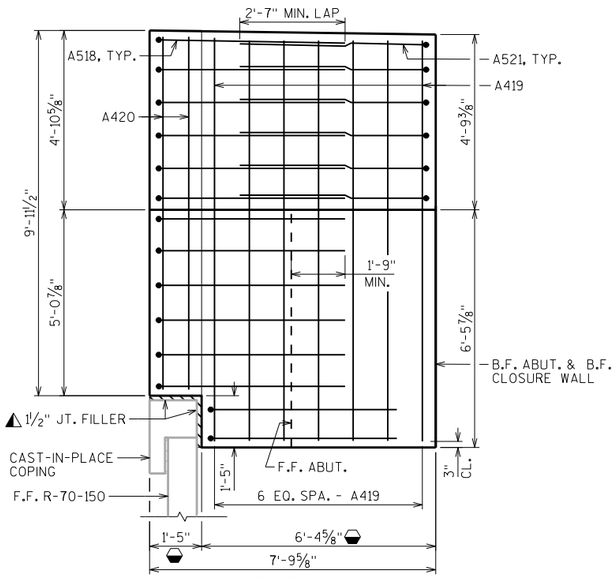


VIEW B-B
END OF ABUT. DETAILS

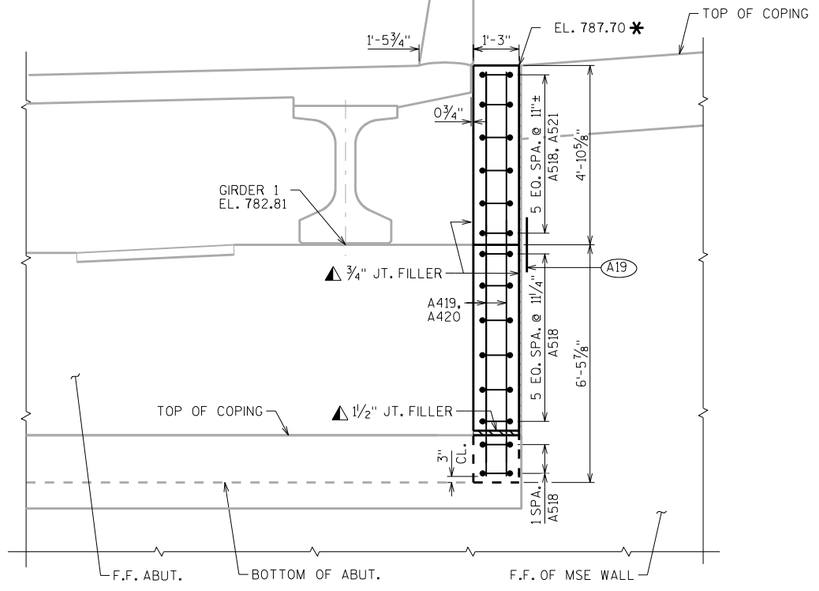
SHOWING F.F. REINFORCEMENT



PLAN VIEW OF CLOSURE WALL 1



SECTION C-C
CLOSURE WALL DETAILS



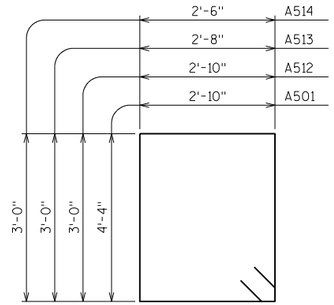
VIEW D-D
CLOSURE WALL DETAILS

LOOKING AT F.F. OF ABUT.

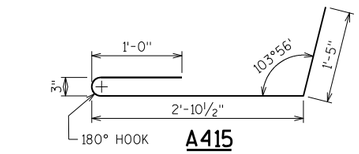
BILL OF BARS

NOTE: THE FIRST OR FIRST TWO DIGITS OF THE BAR MARK SIGNIFIES THE BAR SIZE

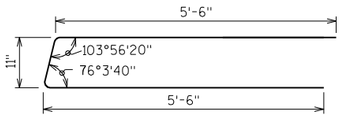
BAR MARK	COAT	NO. REQ'D.	LENGTH	BENT	BAR SERIES	LOCATION
A501		81	15'-0"	X		BODY - STIRRUPS
A402		24	2'-3"			PILES - VERT. - 2 PER PILE
A403		12	28'-0"	X		PILES - SPIRAL - 1 PER PILE
A604		17	35'-8"			BODY - HORIZ. (WEST)
A605		11	31'-8"			BODY - HORIZ. (EAST AT COPING)
A606		6	33'-9"			BODY - HORIZ. (EAST ABOVE COPING)
A407		5	34'-8"			BODY - TOP - HORIZ. UNDER BEAM SEATS 1-4
A408		5	16'-10"			BODY - TOP - HORIZ. UNDER BEAM SEATS 5-6
A509		50	7'-9"	X		BODY - TOP - VERT. UNDER BEAM SEATS 1-6
A410		14	6'-8"			BODY - TOP - HORIZ. BETWEEN BEAM SEATS
A411		35	3'-11"	X		BODY - TOP - VERT. BETWEEN BEAM SEATS
A512		1	12'-4"	X		BODY - EAST CORNER - STIRRUP
A513		1	12'-0"	X		BODY - EAST CORNER - STIRRUP
A514		1	11'-8"	X		BODY - EAST CORNER - STIRRUP
A415		4	5'-4"	X		BODY - EAST CORNER - HORIZ.
A616		6	4'-11"	X		BODY - EAST CORNER - HORIZ.
A417		4	3'-3"			BODY - EAST CORNER - VERT.
A518	X	14	11'-8"	X		CLOSURE WALL 1 - HORIZ.
A419	X	14	10'-10"			CLOSURE WALL 1 - VERT.
A420	X	4	9'-6"			CLOSURE WALL 1 - VERT.
A521	X	6	9'-10"	X		CLOSURE WALL 1 - HORIZ.



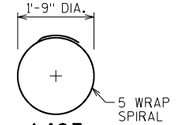
A501, A512, A513, A514



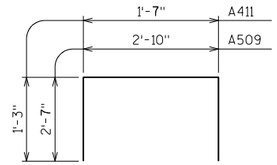
A415



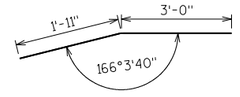
A518



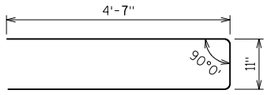
A403



A509, A411



A616



A521

(A19) 18" (RMW) RUBBERIZED MEMBRANE WATERPROOFING SEAL ALL HORIZ. & VERT. JOINTS AT BACKFACE.

* ELEVATION TAKEN AT F.F. OF COPING

SEAL ALL EXPOSED HORIZONTAL AND VERTICAL SURFACES OF FILLER WITH NON-STAINING GRAY, NON-BITUMINOUS JOINT SEALER. (1" DEEP AND HOLD 1/8" BELOW SURFACE OF CONCRETE).

DIMENSION BASED ON AN ESTIMATED RETAINING WALL PANEL THICKNESS OF 9". COORDINATE WITH WALL MANUFACTURER AND ADJUST DIMENSION AS NECESSARY.

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
STRUCTURES DESIGN SECTION

STRUCTURE B-70-423

DRAWN BY EMK | PLANS CK'D. ABS

SOUTH ABUTMENT DETAILS

SHEET 6

455

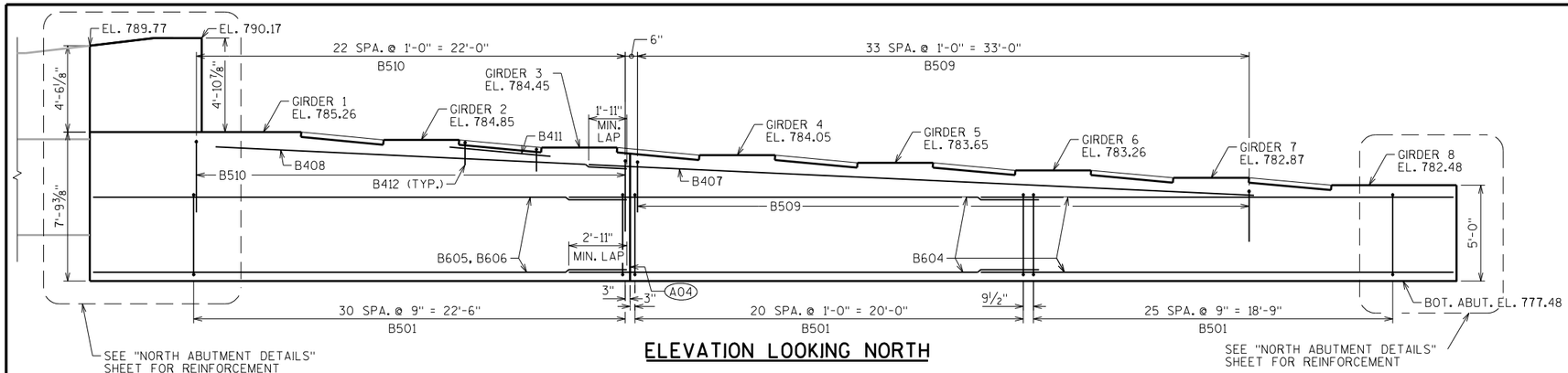
SCALE = 2.00

8

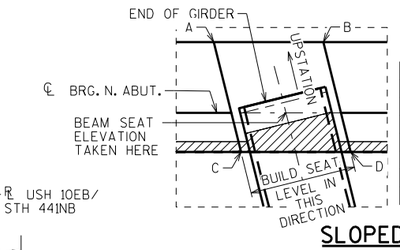
8

STATE PROJECT NUMBER

1517-75-72

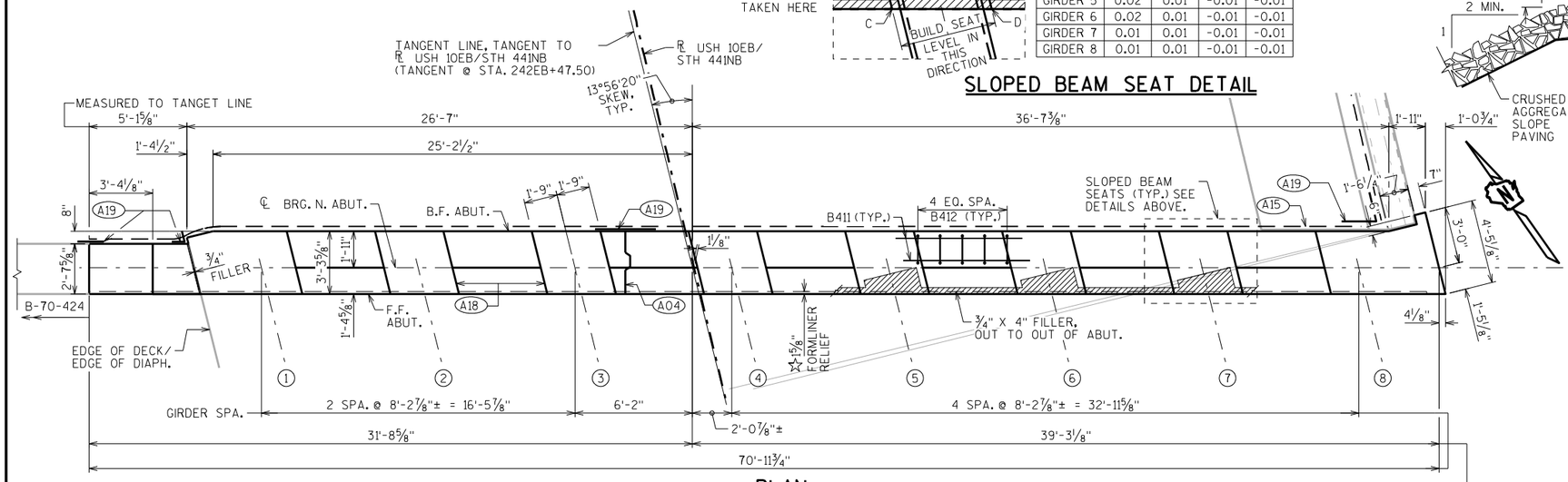


ELEVATION LOOKING NORTH

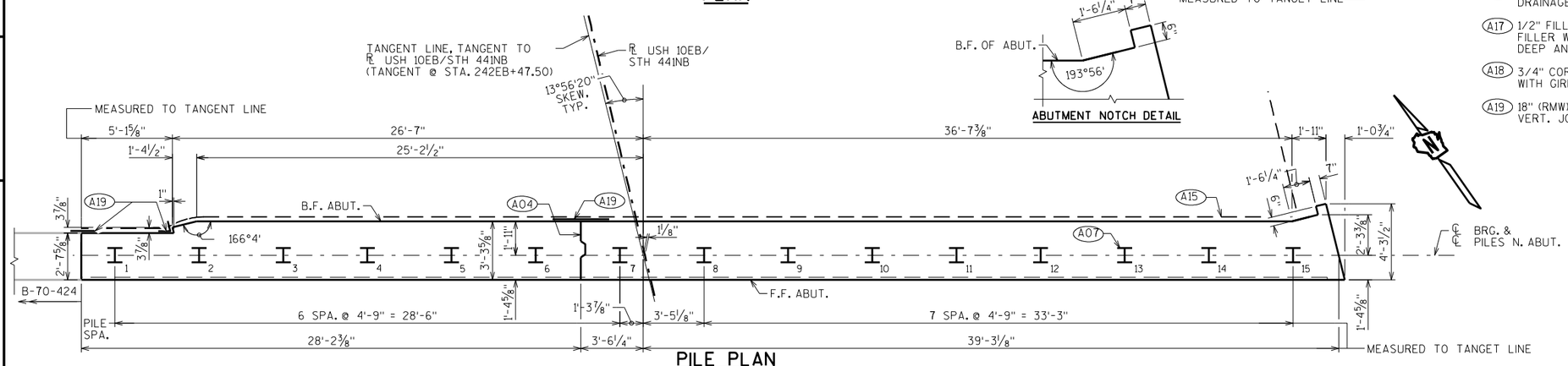


	A	B	C	D
GIRDER 1	0.03	0.02	-0.01	-0.02
GIRDER 2	0.03	0.02	-0.01	-0.02
GIRDER 3	0.02	0.02	-0.01	-0.02
GIRDER 4	0.02	0.01	-0.01	-0.02
GIRDER 5	0.02	0.01	-0.01	-0.01
GIRDER 6	0.02	0.01	-0.01	-0.01
GIRDER 7	0.01	0.01	-0.01	-0.01
GIRDER 8	0.01	0.01	-0.01	-0.01

SLOPED BEAM SEAT DETAIL



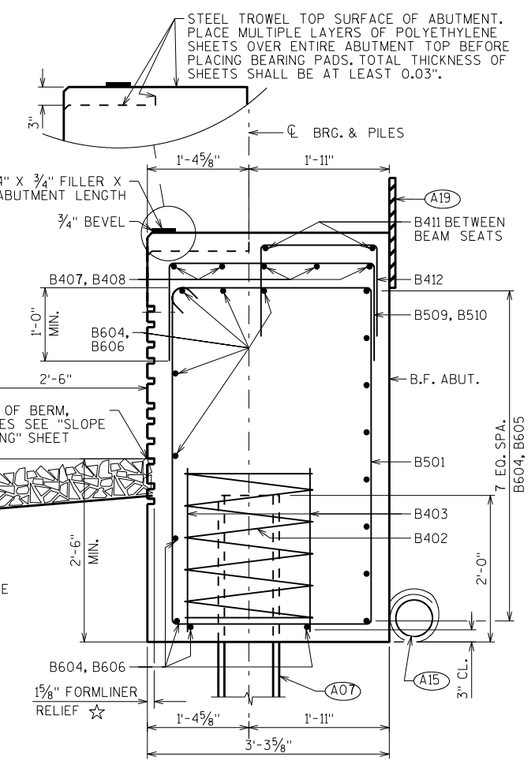
PLAN



PILE PLAN

ABUTMENT NOTCH DETAIL

☆ASHLAR FORMLINER. SEE "AESTHETICS" SHEETS.



SECTION THRU BODY

(A04) VERT. CONST. JOINT: KEYWAY FORMED BY A BEVELED 2 X 8. 3/4" "V" GROOVE @ THE FRONT FACE AND 18" RMW @ BACKFACE. FOR OPTIONAL DETAILS SEE "ALTERNATE CONSTRUCTION JOINT" SHEET.

(A07) SUPPORT ABUTMENT ON HP 12 X 53 STEEL PILING, ESTIMATED 45-0" LONG WITH A REQUIRED DRIVING RESISTANCE OF 220 TONS PER PILE.

(A15) PIPE UNDERDRAIN WRAPPED (6-INCH). SLOPE 0.5% MIN. TO SUITABLE DRAINAGE. RODENT SHIELD REQUIRED.

(A17) 1/2" FILLER: SEAL ALL EXPOSED HORIZ. & VERT. SURFACES OF 1/2" FILLER WITH NON-STAINING GRAY NON-BITUMINOUS JOINT SEALER. (1" DEEP AND HOLD 1/8" BELOW SURFACE OF CONCRETE).

(A18) 3/4" CORK FILLER UP VERT. BEAM SEAT FACES THAT RUN PARALLEL WITH GIRDER.

(A19) 18" (RMW) RUBBERIZED MEMBRANE WATERPROOFING SEAL ALL HORIZ. & VERT. JOINTS AT BACKFACE.

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
STRUCTURES DESIGN SECTION

STRUCTURE B-70-423

DRAWN BY EMK | PLANS CK'D. ABS

NORTH ABUTMENT

SHEET 7

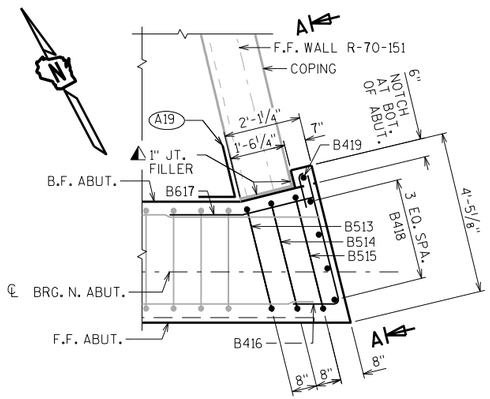
456

SCALE = 3.50

8

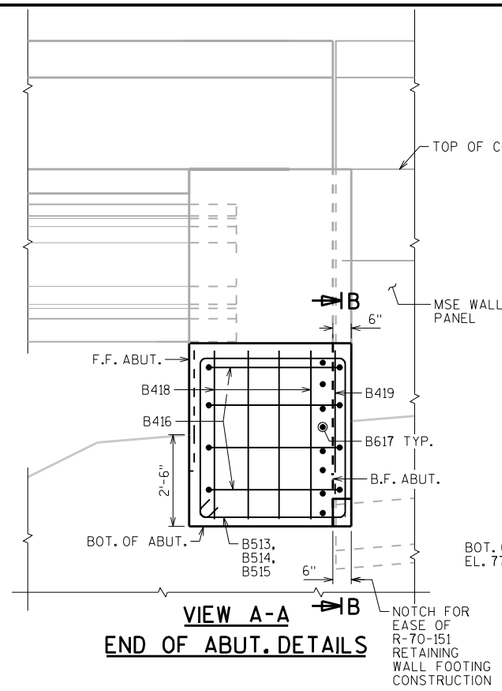
8

A19 18" (RMW) RUBBERIZED MEMBRANE WATERPROOFING SEAL ALL HORIZ. & VERT. JOINTS AT BACKFACE.

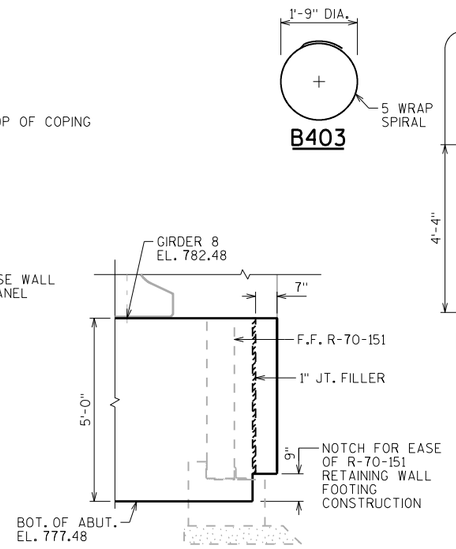


PLAN VIEW OF ABUT. CORNER

SHOWING NORTH EAST END OF NORTH ABUTMENT

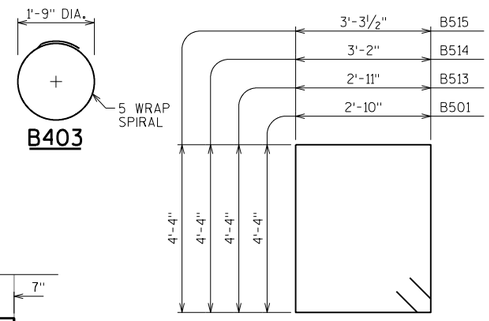


VIEW A-A
END OF ABUT. DETAILS



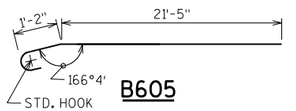
SECTION B-B
END OF ABUT. DETAILS

LOOKING AT FRONT FACE OF ABUTMENT



B403

B501, B513, B514, B515



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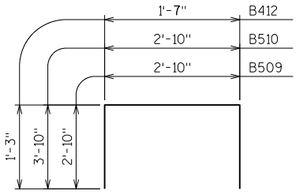


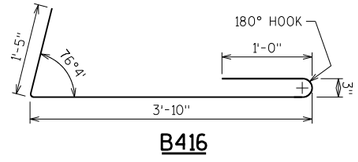
B509, B510, B412

BILL OF BARS

NOTE: THE FIRST OR FIRST TWO DIGITS OF THE BAR MARK SIGNIFIES THE BAR SIZE

BAR MARK	COAT	NO. REQ'D.	LENGTH	BENT	BAR SERIES	LOCATION
B501		78	15'-0"	X		BODY - STIRRUPS
B402		30	2'-3"			PILES - VERT. - 2 PER PILE
B403		15	28'-0"	X		PILES - SPIRAL - 1 PER PILE
B604		34	24'-6"			BODY - HORIZ. (EAST)
B605		8	23'-4"	X		BODY - HORIZ. (WEST @ B.F.)
B606		9	27'-10"			BODY - HORIZ. (WEST @ F.F.)
B407		5	35'-7"			BODY - TOP - HORIZ. UNDER BEAM SEATS 3-7
B408		5	22'-9"			BODY - TOP - HORIZ. UNDER BEAM SEATS 1-3
B509		34	8'-3"	X		BODY - TOP - VERT. UNDER BEAM SEATS 4-7
B510		23	10'-3"	X		BODY - TOP - VERT. UNDER BEAM SEATS 1-3
B411		14	6'-8"			BODY - TOP - HORIZ. BETWEEN BEAM SEATS
B412		35	3'-11"	X		BODY - TOP - VERT. BETWEEN BEAM SEATS
B513		1	15'-2"	X		BODY - EAST CORNER - STIRRUP
B514		1	15'-8"	X		BODY - EAST CORNER - STIRRUP
B515		1	15'-11"	X		BODY - EAST CORNER - STIRRUP
B416		4	6'-3"	X		BODY - EAST CORNER - HORIZ.
B617		8	4'-10"	X		BODY - EAST CORNER - HORIZ.
B418		4	4'-7"			BODY - EAST CORNER - VERT.
B419		1	3'-10"			BODY - EAST CORNER - VERT.
B620	X	14	7'-10"			BODY - WEST CORNER - HORIZ.
B421	X	7	5'-6"			BODY - WEST CORNER - HORIZ. @ F.F.
B422	X	7	4'-10"			BODY - WEST CORNER - HORIZ. @ B.F.
B423	X	1	5'-6"	X		BODY - WEST CORNER - HORIZ. @ F.F.
B424	X	1	4'-10"	X		BODY - WEST CORNER - HORIZ. @ B.F.
B425	X	8	15'-10"	X	⬟	BODY - WEST CORNER - VERT.
B426	X	6	16'-1"	X		BODY - WEST CORNER - VERT.

⬟ LENGTH SHOWN FOR BAR IS AN AVERAGE LENGTH AND SHOULD ONLY BE USED FOR BAR WEIGHT CALCULATIONS. SEE BAR SERIES TABLE FOR ACTUAL LENGTHS.

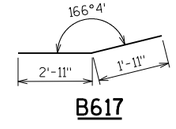


B416

BAR SERIES TABLE

BAR MARK	NO. REQ'D.	LENGTH
B425	2 SERIES OF 4	15'-8" TO 16'-0"

BUNDLE AND TAG EACH SERIES SEPARATELY.



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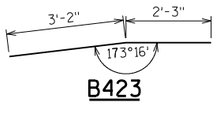

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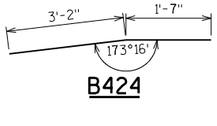

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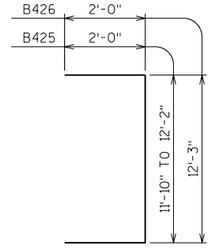
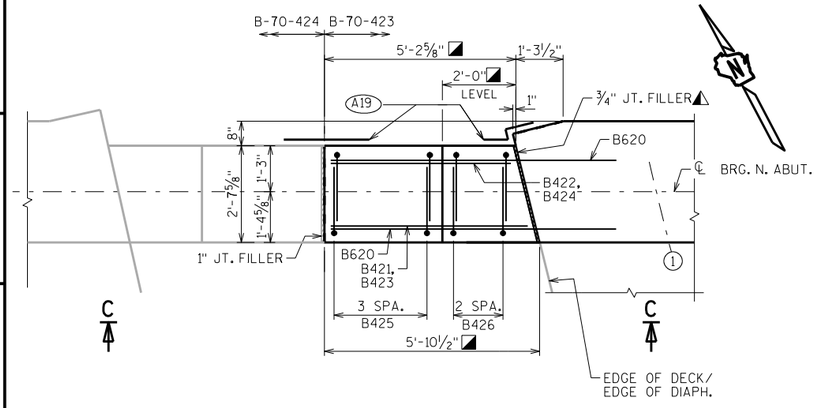
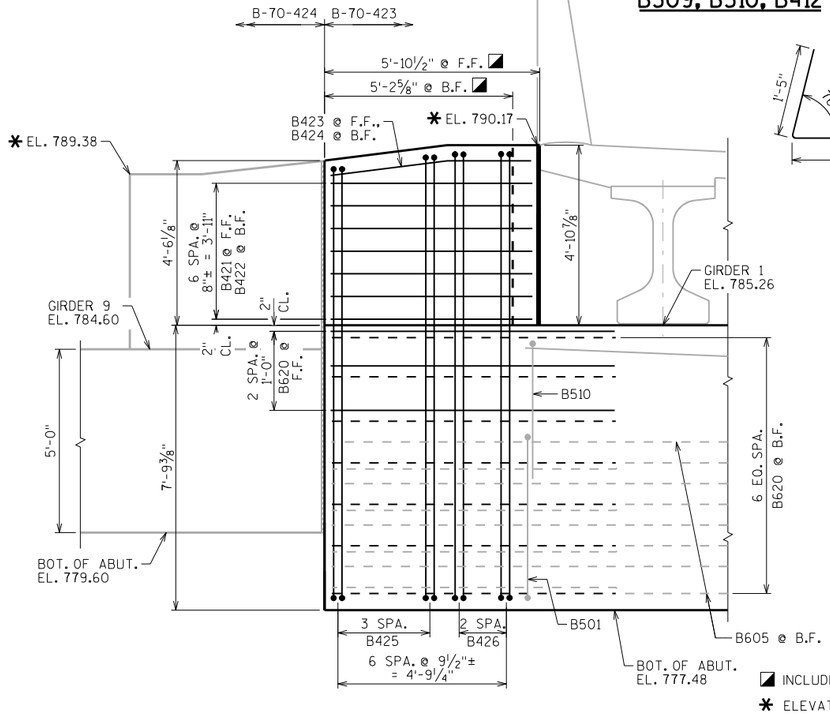


B425, B426



PLAN VIEW OF ABUT. CORNER

SHOWING NORTH WEST END OF NORTH ABUTMENT



VIEW C-C
END OF ABUT. DETAILS

LOOKING AT F.F. REINFORCEMENT

◢ INCLUDES ¾" FILLER

✱ ELEVATIONS GIVEN AT ℄ BRG. N. ABUT.

◭ SEAL ALL EXPOSED HORIZONTAL AND VERTICAL SURFACES OF FILLER WITH NON-STAINING GRAY, NON-BITUMINOUS JOINT SEALER. (1" DEEP AND HOLD ⅛" BELOW SURFACE OF CONCRETE).

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
STRUCTURES DESIGN SECTION

STRUCTURE B-70-423

DRAWN BY EMK | PLANS CK'D. ABS

NORTH ABUTMENT DETAILS

SHEET 8

457

STATE PROJECT NUMBER

1517-75-72

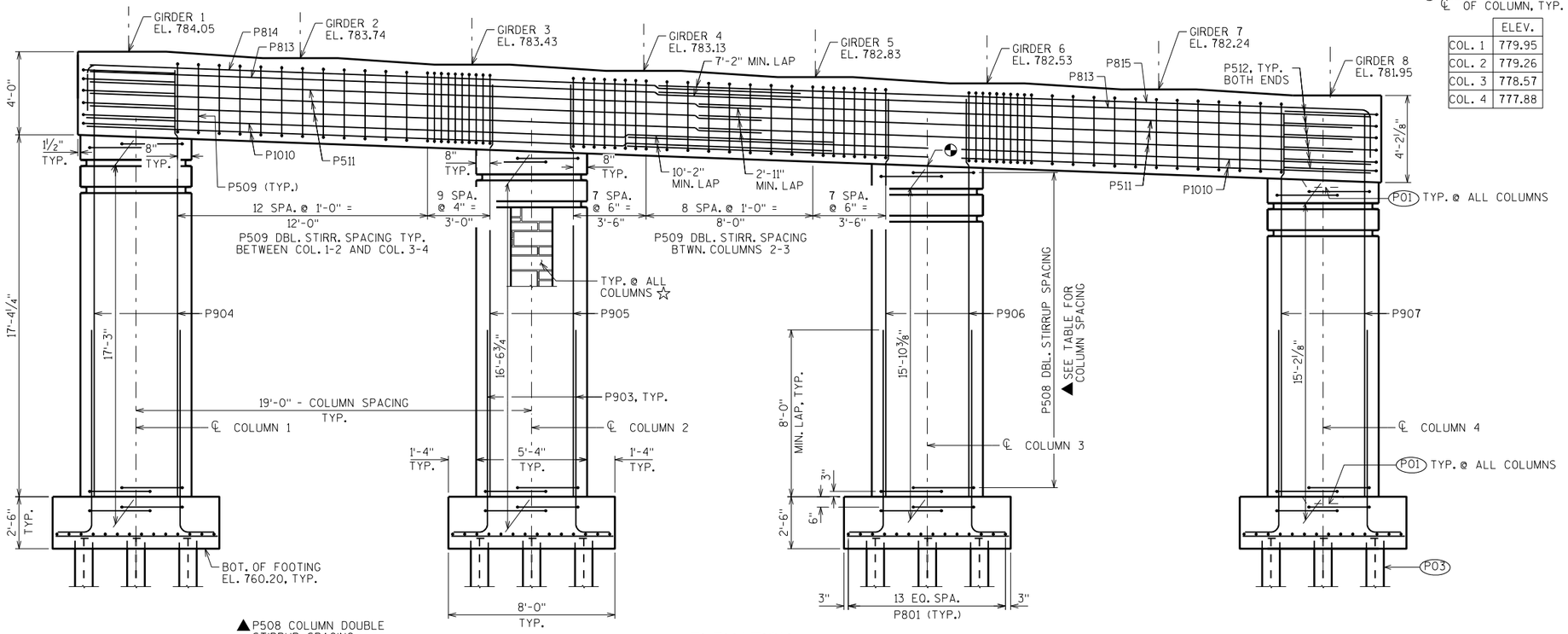
8

8

SCALE = 2.00

STATE PROJECT NUMBER

1517-75-72



℄ ELEVATION GIVEN AT ℄ OF COLUMN, TYP.

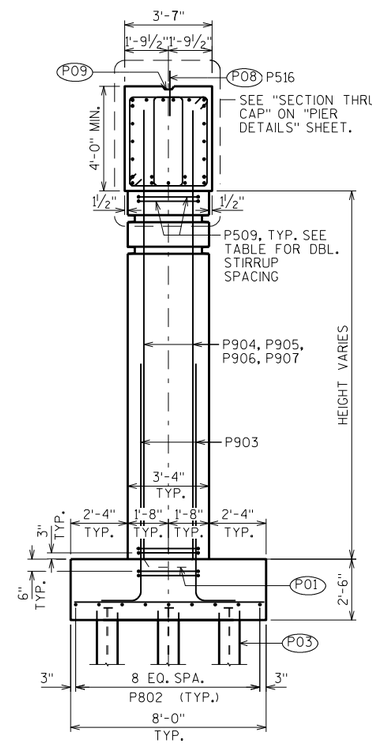
	ELEV.
COL. 1	779.95
COL. 2	779.26
COL. 3	778.57
COL. 4	777.88

▲P508 COLUMN DOUBLE STIRRUP SPACING

COL. 1	33 SPA. @ 6" = 16'-6"
COL. 2	32 SPA. @ 6" = 16'-0"
COL. 3	30 SPA. @ 6" = 15'-0"
COL. 4	29 SPA. @ 6" = 14'-6"

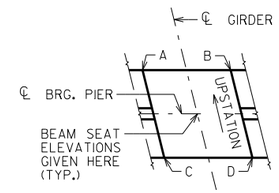
ELEVATION

LOOKING NORTH



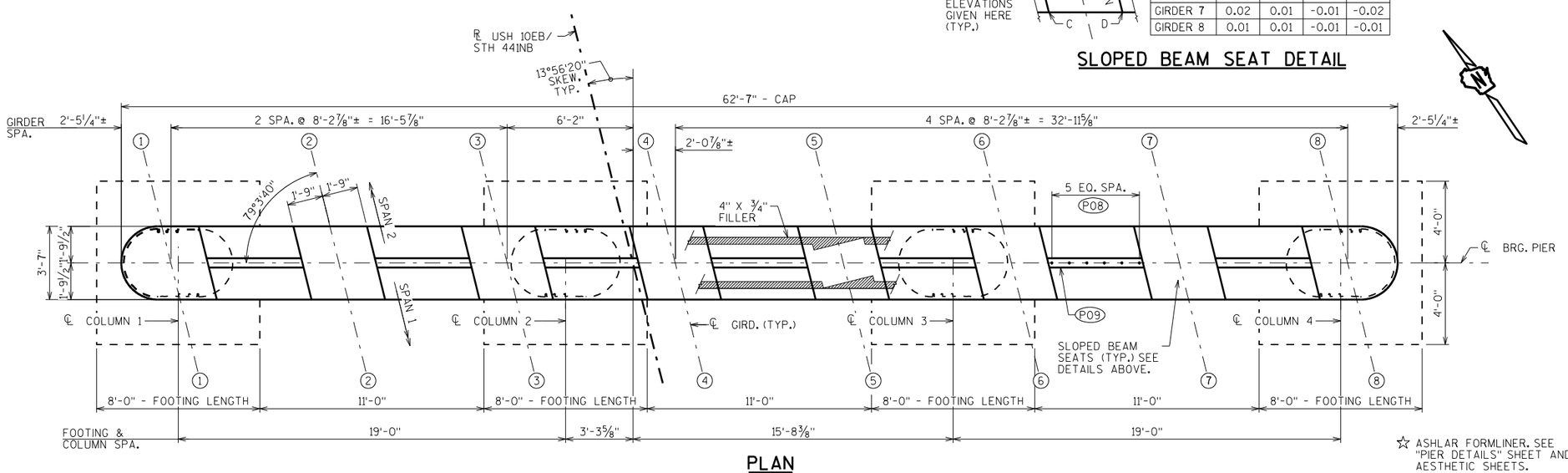
END VIEW

LOOKING WEST



	A	B	C	D
GIRDER 1	0.03	0.02	-0.02	-0.03
GIRDER 2	0.03	0.02	-0.02	-0.03
GIRDER 3	0.02	0.01	-0.01	-0.02
GIRDER 4	0.02	0.01	-0.01	-0.02
GIRDER 5	0.02	0.01	-0.01	-0.02
GIRDER 6	0.02	0.01	-0.01	-0.02
GIRDER 7	0.02	0.01	-0.01	-0.02
GIRDER 8	0.01	0.01	-0.01	-0.01

SLOPED BEAM SEAT DETAIL



PLAN

☆ ASHLAR FORMLINER. SEE "PIER DETAILS" SHEET AND AESTHETIC SHEETS.

(P01) 1'-3" x 2'-0" x 4" CONST. JOINT FORMED BY BEVELED KEYWAY.

(P03) SUPPORT PIER ON HP 12 x 53 STEEL PILING, ESTIMATED 35'-0" LONG WITH A REQUIRED DRIVING RESISTANCE OF 220 TONS PER PILE.

(P08) P516 BARS @ 1'-0" CTRS. BETWEEN BEAM SEATS. MAY BE PLACED AFTER CONCRETE IS POURED BUT BEFORE INITIAL SET HAS TAKEN PLACE. (EMBED 1'-0" INTO CONC.)

(P09) KEYED CONST. JOINT-FORMED BY BEVELED 2 x 6 BETWEEN BEAM SEATS.

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
STRUCTURES DESIGN SECTION

STRUCTURE B-70-423

DRAWN BY EMK | PLANS CK'D. ABS

PIER

SHEET 9

458

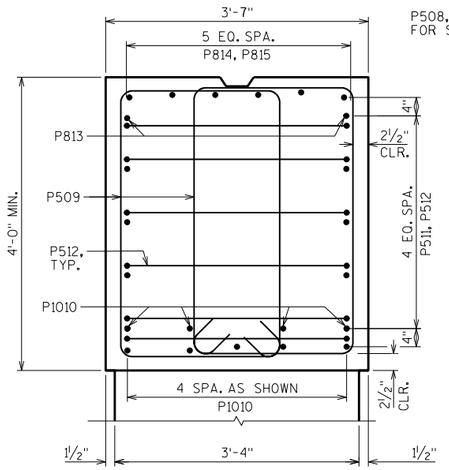
SCALE = 3.00

8

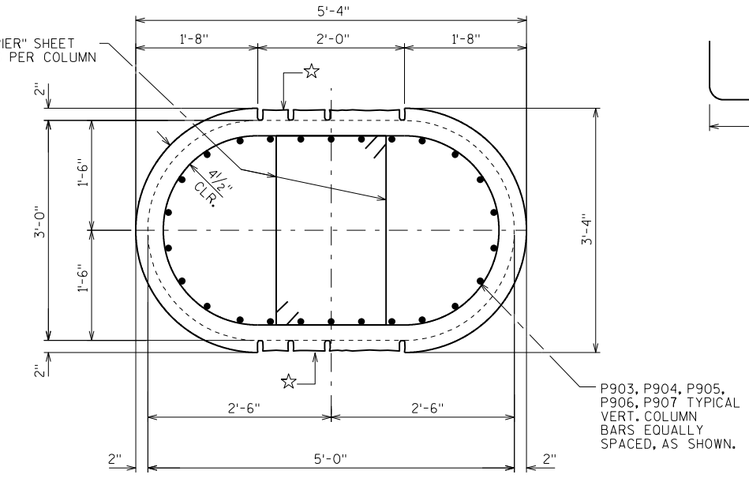
8

STATE PROJECT NUMBER

1517-75-72

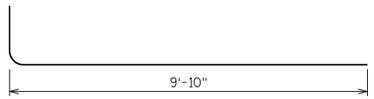


SECTION THRU CAP

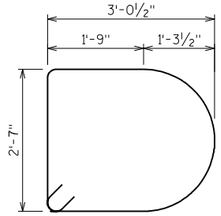


SECTION THRU COLUMN

(TYP. COLUMN SECTION)



P903

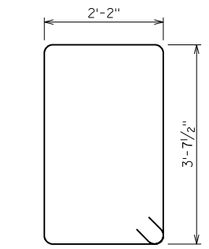


P508

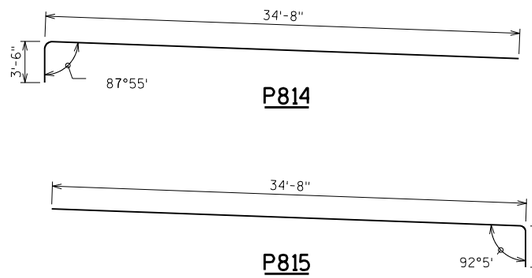
BILL OF BARS

NOTE: THE FIRST OR FIRST TWO DIGITS OF THE BAR MARK SIGNIFIES THE BAR SIZE

BAR MARK	COAT	NO. REQ'D.	LENGTH	BENT	BAR SERIES	LOCATION
P801		56	7'-6"			FOOTING - HORIZ.
P802		36	7'-6"			FOOTING - HORIZ.
P903	X	104	11'-2"	X		FOOTING/COLUMN - VERT.
P904	X	26	20'-8"			COLUMN 1 - VERT.
P905	X	26	20'-0"			COLUMN 2 - VERT.
P906	X	26	19'-4"			COLUMN 3 - VERT.
P907	X	26	18'-7"			COLUMN 4 - VERT.
P508	X	264	10'-11"	X		COLUMN & FOOTING STIRRUPS
P509	X	134	12'-3"	X		CAP STIRRUPS BTWN. COLUMNS
P1010	X	18	36'-2"			CAP - BOT. - LONGIT.
P511	X	12	31'-0"			CAP - MIDDLE - LONGIT.
P512	X	12	10'-11"	X		CAP - END U-BAR
P813	X	4	34'-1"			CAP - TOP - LONGIT.
P814	X	6	38'-0"	X		CAP - TOP - LONGIT.
P815	X	6	38'-0"	X		CAP - TOP - LONGIT.
P516	X	42	2'-0"			CAP - TOP DOWEL

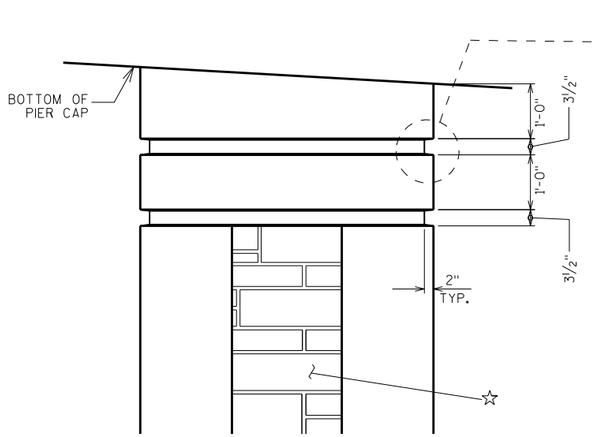


P509



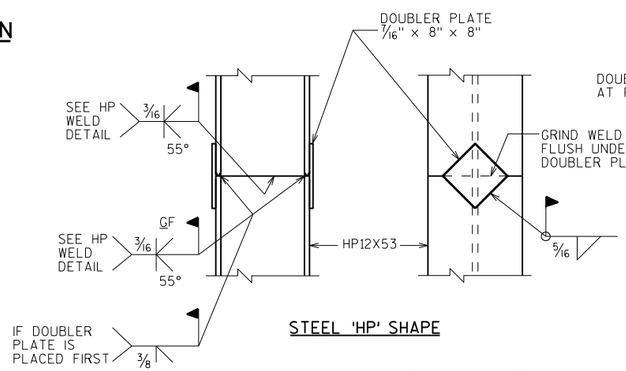
P814

P815

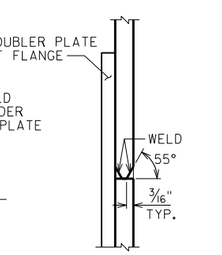


PART. ELEV. TOP OF PIER COLUMN

☆ ASHLAR FORMLINER. SEE "PIER" SHEET AND "AESTHETICS" SHEETS.



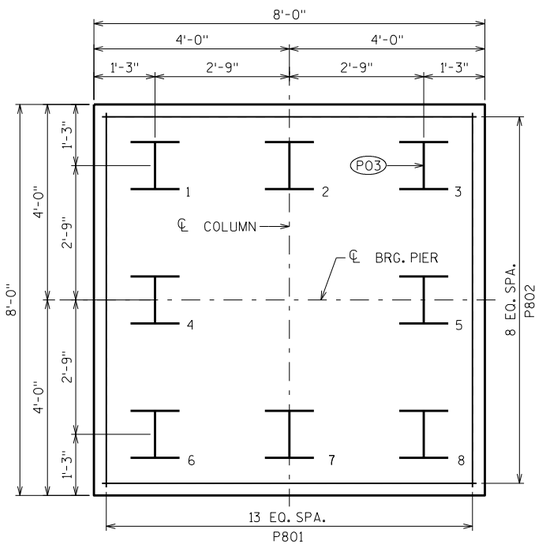
STEEL 'HP' SHAPE



HP WELD DETAIL

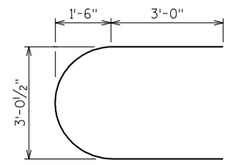
FLANGE SHOWN, WEB SIMILAR

PILE DETAILS



FOOTING PLAN

COLUMNS 1-4



P512

(P03) SUPPORT PIER ON HP 12 × 53 STEEL PILING, ESTIMATED 35'-0" LONG WITH A REQUIRED DRIVING RESISTANCE OF 220 TONS PER PILE.

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
STRUCTURES DESIGN SECTION

STRUCTURE B-70-423

DRAWN BY EMK | PLANS CK'D. ABS

PIER DETAILS

SHEET 10

459

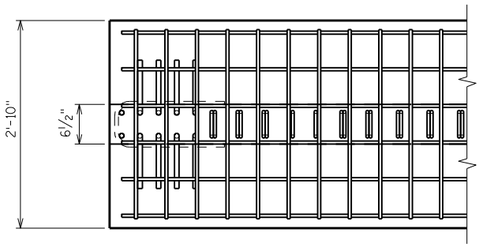
SCALE = 1.00

8

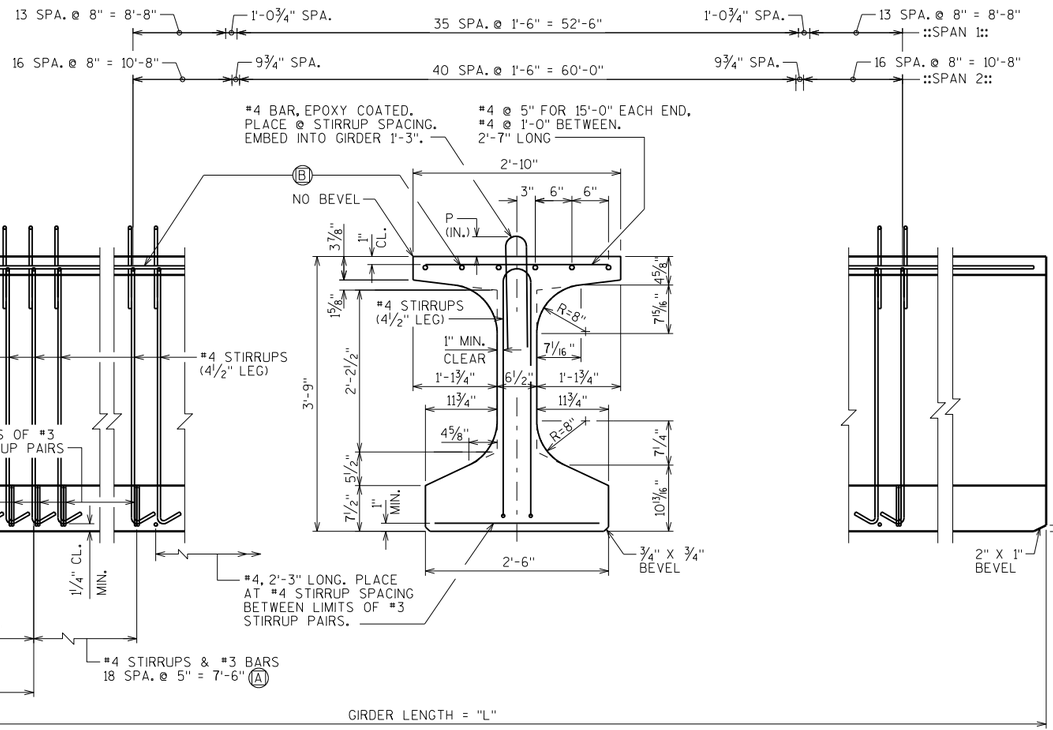
8

STATE PROJECT NUMBER

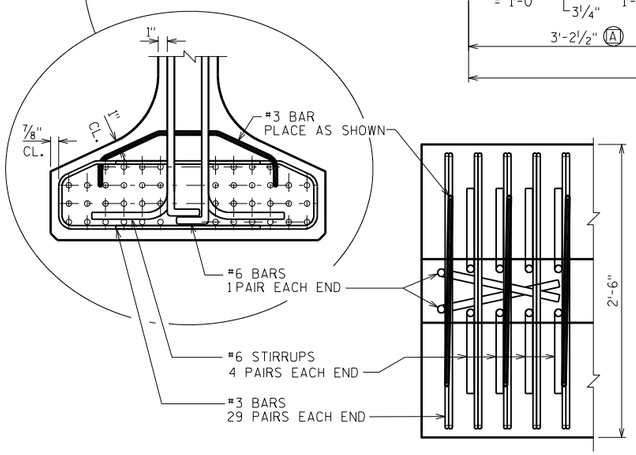
1517-75-72



TOP FLANGE



SECTION A-A



BOTTOM FLANGE

SIDE VIEW & TYPICAL SECTION IN SPAN

(A) DETAIL TYP. AT EACH END

(B) 6 #4 BARS, FULL LENGTH, MIN. LAP = 1'-11"

NOTES

TOP OF GIRDER TO BE ROUGH FLOATED AND BROOMED TRANSVERSELY, EXCEPT THE OUTSIDE 8" OF GIRDER, WHICH SHALL RECEIVE A SMOOTH FINISH. AN APPROVED CONCRETE SEALER SHALL BE APPLIED TO ALL SMOOTH SURFACES INCLUDING THE OUTSIDE 8" OF THE TOP FLANGE.

DO NOT APPLY CONCRETE SEALER OR EPOXY TO SURFACES RECEIVING APPLICATION OF CONCRETE STAINING.

THE GIRDERS SHALL BE PROVIDED WITH A SUITABLE LIFTING DEVICE FOR HANDLING AND ERECTING THE GIRDERS. SEE SECT. 503.3.3 OF STANDARD SPECIFICATIONS FOR GUIDANCE.

STRANDS SHALL BE FLUSH WITH END OF GIRDER. FOR GIRDER ENDS EMBEDDED COMPLETELY IN CONCRETE, END OF STRANDS SHALL BE COATED WITH NON-BITUMINOUS JOINT SEALER. FOR GIRDER ENDS THAT ARE FINALLY EXPOSED, COAT THE GIRDER ENDS, EXPOSED STRAND ENDS AND ALL NON-BONDING SURFACES WITHIN 2 FEET OF THE GIRDER ENDS WITH A NON-PIGMENTED EPOXY CONFORMING TO AASHTO M-235 TYPE III, GRADE 2, CLASS B OR C. THE EPOXY SHALL BE APPLIED AT LEAST 3 DAYS AFTER MOIST CURING HAS CEASED AND PRIOR TO THE APPLICATION OF THE SEALER.

ALL GIRDERS SHALL BE CAST FULL LENGTH AS SHOWN.

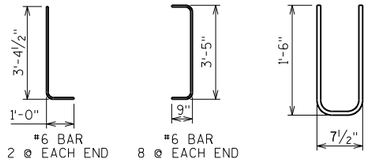
SPACING SHOWN FOR #4 STIRRUPS IS FOR GRADE 60 REINFORCEMENT.

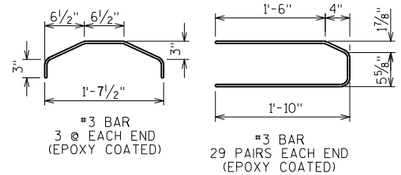
AN ALTERNATE EQUIVALENT OF WELDED WIRE FABRIC (WWF) ASTM A497 MAY BE SUBSTITUTED FOR THE STIRRUP REINFORCEMENT SHOWN, UPON APPROVAL OF THE STRUCTURES DEVELOPMENT SECTION.

PRESTRESSING STRANDS SHALL BE (0.6" DIA.)-7 WIRE LOW-RELAXATION STRANDS WITH AN ULTIMATE STRENGTH OF 270,000 PSI.

FOR DIAPHRAGM INSERT & CONNECTION DETAILS SEE "STEEL DIAPHRAGM" SHEET.

FOR DIAPHRAGM SPACING SEE TABLE AND DIAGRAM "45W" PRESTRESSED GIRDER DETAILS 2" SHEET.





✳ MINIMUM CYLINDER STRENGTH OF CONCRETE @ TIME OF TRANSFER OF PRESTRESS FORCE.

GIRDER DATA

SPAN	GIRDER	GIRDER LENGTH "L"	DEAD LOAD DEFL. (IN.)									CONC. STRGTH. f'c (p.s.i.)	"P" 1ST ⅓ OF GIRDER	"P" MID ⅓ OF GIRDER	"P" END ⅓ OF GIRDER	DIA. OF STRAND (IN.)	DRAPED PATTERN						UNDRAPED PATTERN	
			1/10	2/10	3/10	4/10	5/10	6/10	7/10	8/10	9/10						TOTAL NO. OF STRANDS	f'ci (P.S.I.) ✳	(IN.) "A"	"B" MIN.	"B" MAX.	"C"	TOTAL NO. OF STRANDS	f'ci (P.S.I.) ✳
1	ALL	93.375	0.4	0.8	1.2	1.4	1.4	1.4	1.2	0.8	0.4	8,000	7	7	7	0.6	26	6.8	41	13.25	16.25	4		
2	ALL	104.375	0.7	1.3	1.8	2.1	2.2	2.1	1.8	1.3	0.7	8,000	7	7	8	0.6	34	6.8	40	13.75	16.75	5		

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
STRUCTURES DESIGN SECTION

STRUCTURE B-70-423

DRAWN BY EMK | PLANS CK'D. ABS

45W" PRESTRESSED GIRDER DETAILS 1

SHEET 11

460

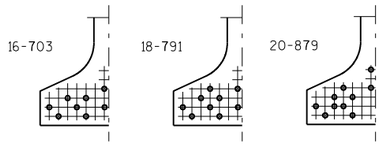
SCALE = 1.00

8

8

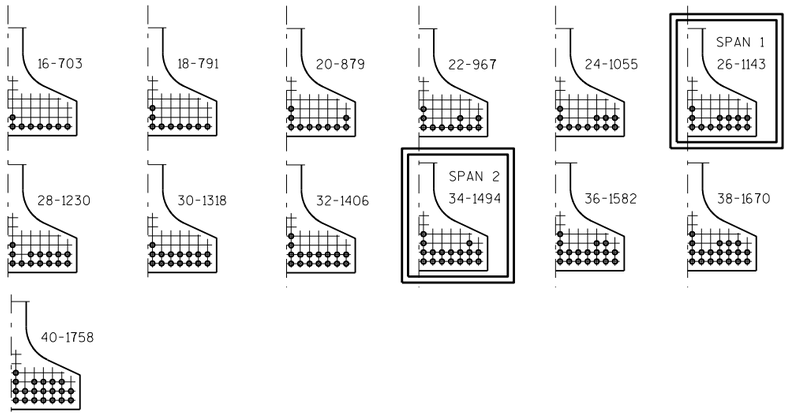
STATE PROJECT NUMBER

1517-75-72



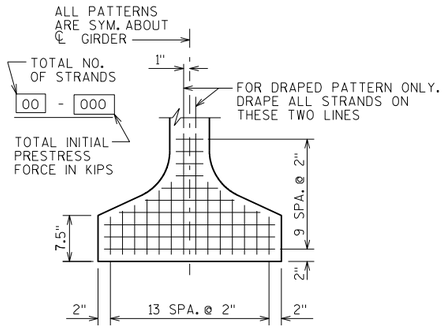
STANDARD ARRANGEMENTS TO RAISE CENTER OF GRAVITY TO AVOID DRAPING OF STRANDS

0.6"Φ STRANDS

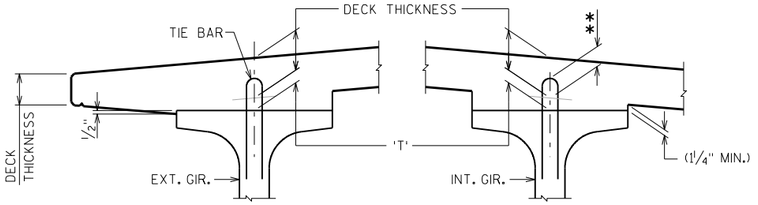


ARRANGEMENT AT ℄ SPAN - FOR GIRDERS WITH DRAPED STRANDS

0.6"Φ STRANDS



TYP. STRAND PATTERN



DECK HAUNCH DETAIL

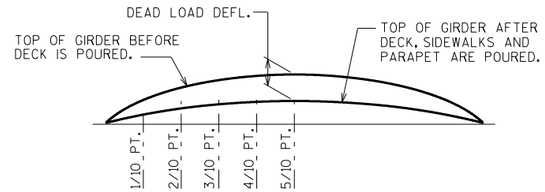
IF 1¼" MINIMUM HAUNCH HEIGHT AT EDGE OF GIRDER CANNOT BE MAINTAINED, THE GRADE LINE MAY BE REVISED BY THE ENGINEER AT THE OPTION OF THE CONTRACTOR, THE PLAN DECK THICKNESS SHALL BE HELD. NOTIFY THE STRUCTURES SECTION IF THE GRADE LINE IS RAISED FROM THE PLAN PROFILE BY MORE THAN ½" OR,

** IF 3" MINIMUM DECK EMBEDMENT OF TIE BAR CANNOT BE OBTAINED.

TO DETERMINE 'T', ELEV. OF TOP OF GIR'S. AT ℄ OF SUBSTRUCTURE UNITS & AT 1/10 POINTS OF EACH SPAN SHALL BE TAKEN. THEN FOLLOW THIS PROCESS:

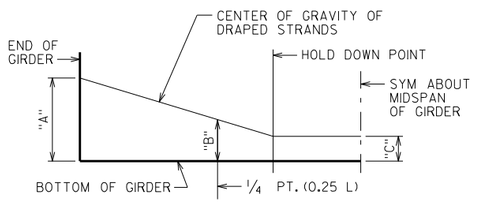
TOP OF DECK ELEV. AT FINAL GRADE
- TOP OF GIRDER ELEVATION
+ DEAD LOAD DEFLECTION
- DECK THICKNESS
= HAUNCH HEIGHT 'T'

NOTE: AN AVERAGE HAUNCH ('T') OF 3.5" WAS USED IN THE QUANTITY "MODIFIED HIGH PERFORMANCE CONCRETE (HPC) BRIDGES".



DEAD LOAD DEFLECTION DIAGRAM

	SPAN 1						SPAN 2					
	WEST			EAST			WEST			EAST		
	A	B	C	D	E	F	G	H	I	J	K	L
GIR. 1	-	-	-	30'-1⅝"	31'-1½"	32'-1⅜"	-	-	-	33'-9⅝"	34'-9½"	35'-9⅜"
GIR. 2-7	32'-1⅜"	31'-1½"	30'-1⅝"	30'-1⅝"	31'-1½"	32'-1⅜"	35'-9⅜"	34'-9½"	33'-9⅝"	33'-9⅝"	34'-9½"	35'-9⅜"
GIR. 8	32'-1⅜"	31'-1½"	30'-1⅝"	-	-	-	35'-9⅜"	34'-9½"	33'-9⅝"	-	-	-



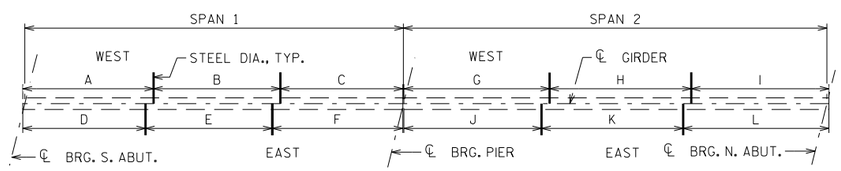
DRAPED STRAND PROFILE

*THE THEORETICAL INITIAL CAMBER VALUE AT THE TIME OF STRAND RELEASE AT MIDSPAN MULTIPLIED BY A FACTOR OF 1.4 TO ACCOUNT FOR CAMBER GROWTH FROM THE TIME OF STRAND RELEASE TO JOBSITE PLACEMENT.

SPAN	CAMBER (IN.) *
1	2.4
2	3.6

THESE VALUES ARE NOT TO BE USED IN DETERMINING 'T', USE ACTUAL GIRDER SHOTS.

THESE VALUES ARE FOR INFORMATIONAL PURPOSES ONLY.



STEEL DIAPHRAGM SPCAING

STEEL DIAPHRAGMS, MEASUREMENTS ALONG ℄ OF GIRDER, FROM ENDS OF GIRDER.

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
STRUCTURES DESIGN SECTION

STRUCTURE B-70-423

DRAWN BY EMK | PLANS CK'D. ABS

45W" PRESTRESSED GIRDER DETAILS 2

SHEET 12

461

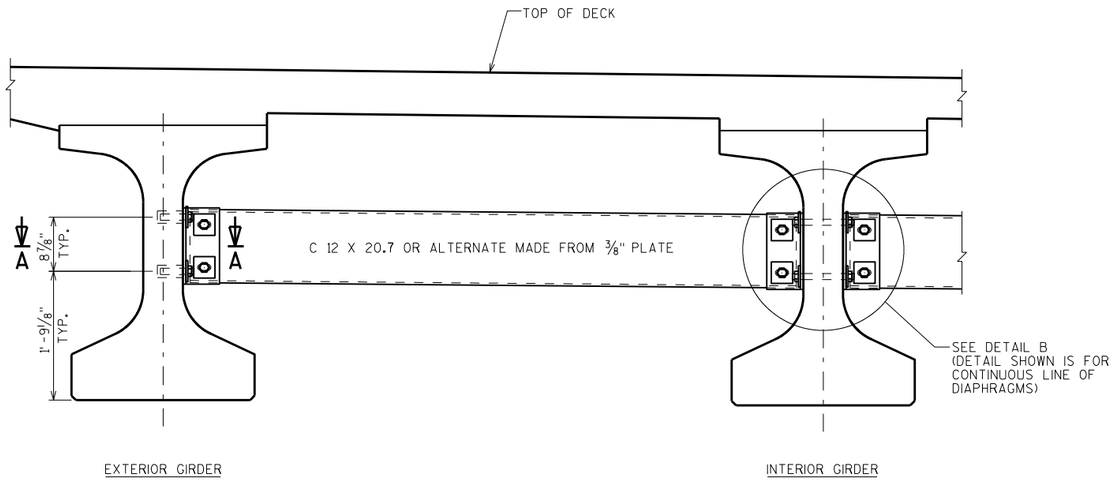
SCALE = 1.00

8

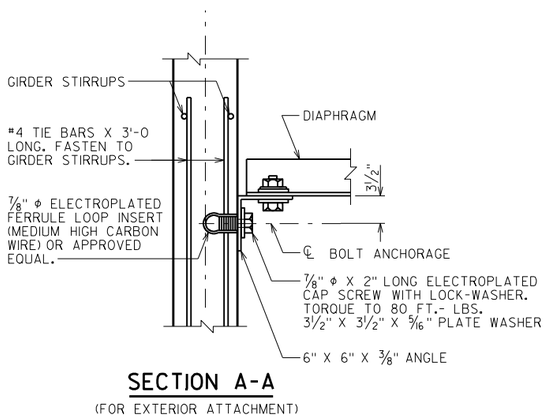
8

STATE PROJECT NUMBER

1517-75-72



PART TRANSVERSE SECTION AT DIAPHRAGM



SECTION A-A

(FOR EXTERIOR ATTACHMENT)

NOTES

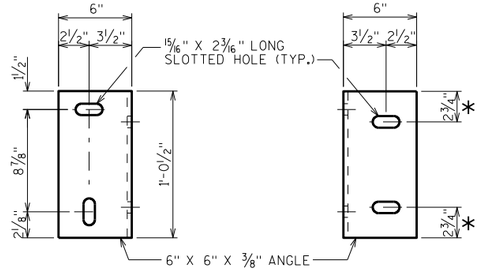
ALL DIAPHRAGM MATERIAL NOT EMBEDDED IN THE CONCRETE GIRDER SHALL BE PAID FOR AT THE UNIT PRICE BID FOR "STEEL DIAPHRAGMS B-70-423", EACH.

EACH DIAPHRAGM BETWEEN GIRDERS SHALL CONSTITUTE ONE UNIT.

ALL DIAPHRAGM STRUCTURAL STEEL SHALL BE ASTM A709 GRADE 36.

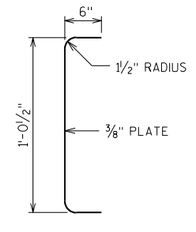
ALL DIAPHRAGM MATERIAL INCLUDING BOLTS, NUTS AND WASHERS SHALL BE GALVANIZED AFTER FABRICATION.

STEEL DIAPHRAGM TO CONCRETE WEB CONNECTION SHALL BE SNUG-TIGHT PLUS ¼ TURN, UNLESS NOTED OTHERWISE. HIGH STRENGTH BOLTS FOR WEB CONNECTION SHALL MEET THE REQUIREMENTS FOR ASTM A325 OR ASTM A449.

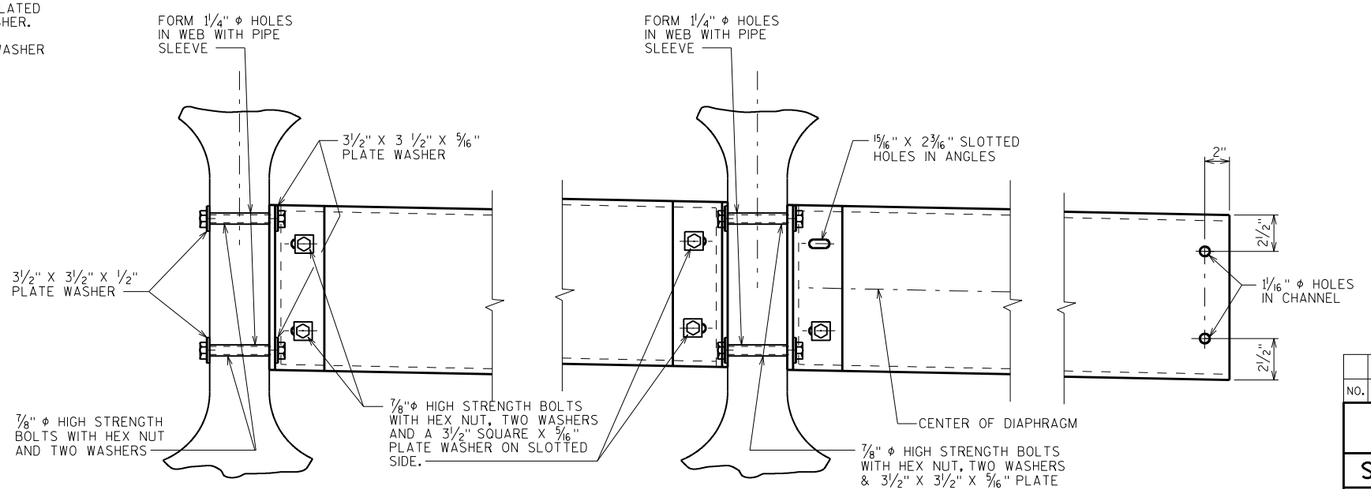


DIAPHRAGM SUPPORT

* 2½" FOR ALTERNATE PLATE DIAPHRAGM



SECTION THRU ALTERNATE DIAPHRAGM



(FOR STAGGERED DIAPHRAGM)

DETAIL B

(FOR CONTINUOUS LINE OF DIAPHRAGMS)

8

8

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
STRUCTURES DESIGN SECTION

STRUCTURE B-70-423

DRAWN BY EMK | PLANS CK'D. ABS

STEEL DIAPHRAGM

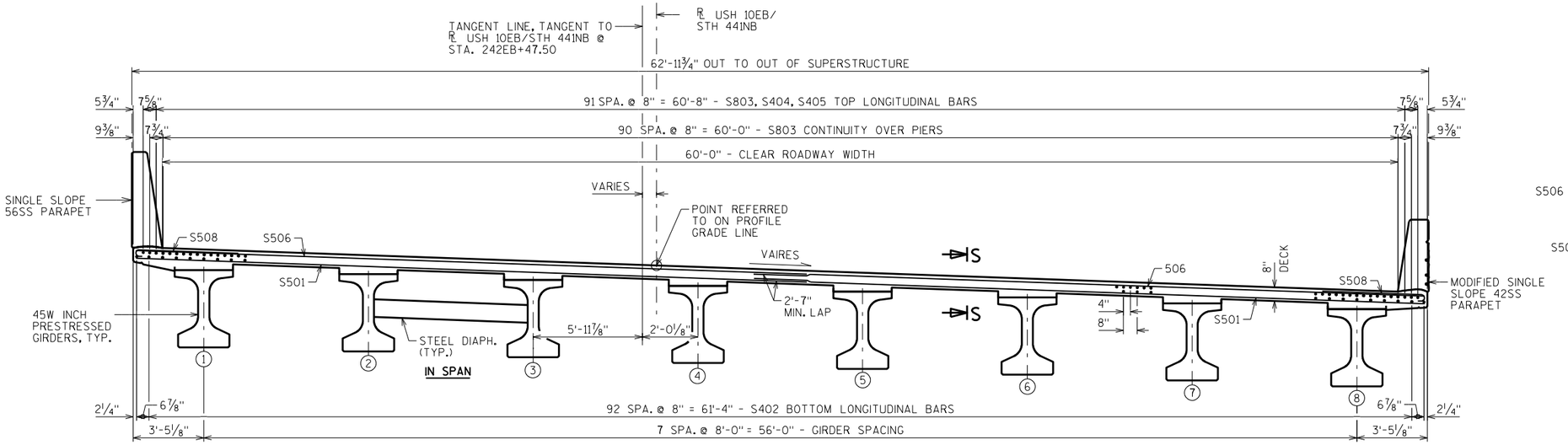
SHEET 13

462

SCALE = 1.00

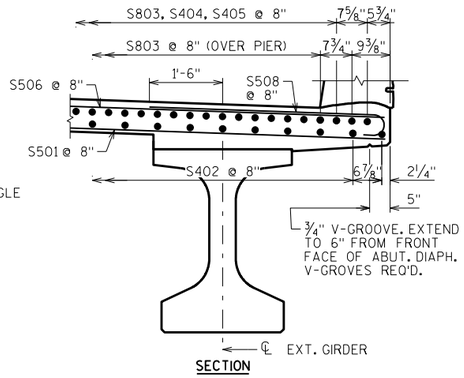
STATE PROJECT NUMBER

1517-75-72

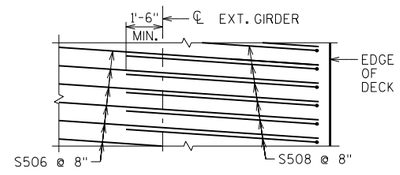


CROSS SECTION THRU ROADWAY

LOOKING NORTH

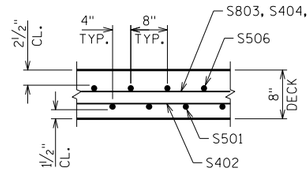


SECTION



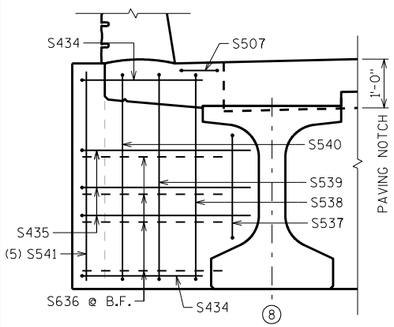
PLAN

PARAPET NOT SHOWN FOR CLARITY

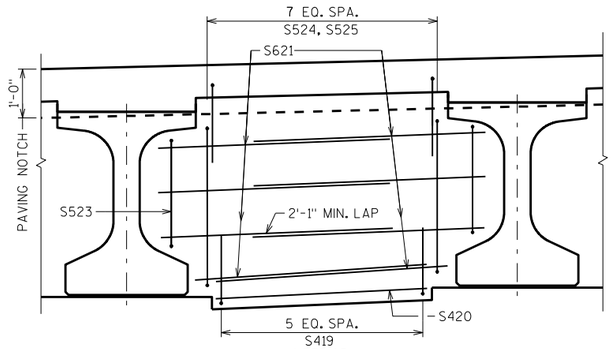


SECTION S-S

ADDITIONAL REINF. DETAILS



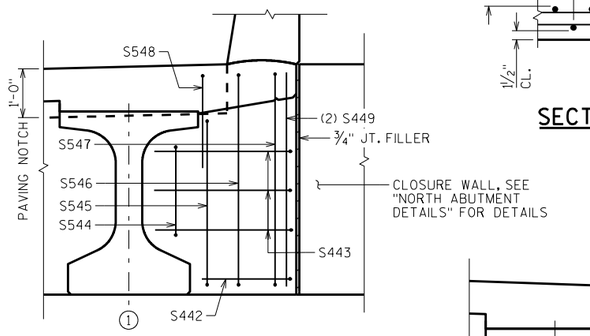
EAST EXTERIOR



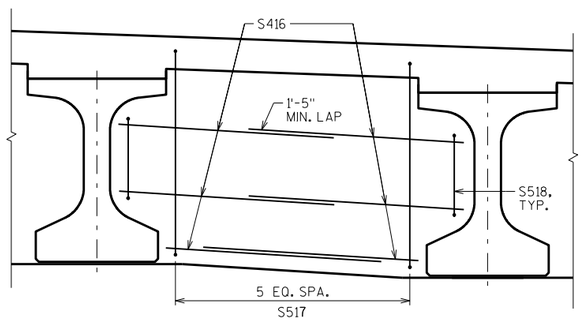
INTERIOR

SOUTH ABUT. DIAPH.

LOOKING SOUTH AT FRONT FACE OF ABUT.

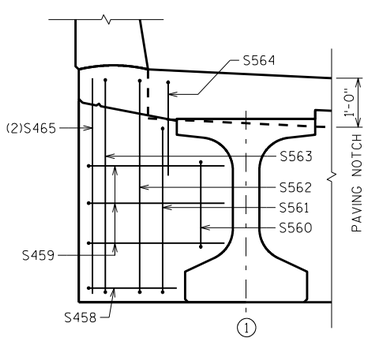


WEST EXTERIOR

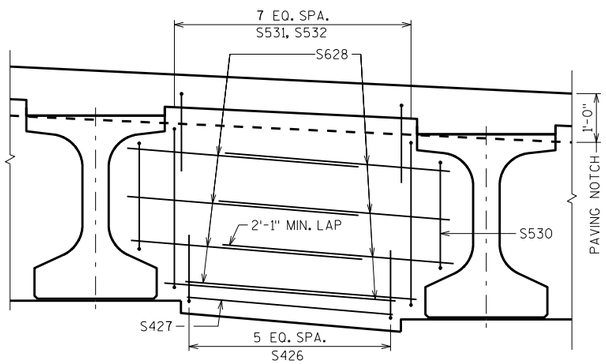


PIER DIAPH.

LOOKING NORTH



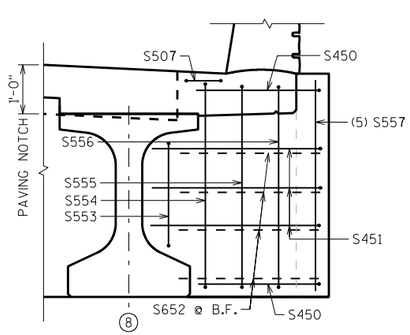
WEST EXTERIOR



INTERIOR

NORTH ABUT. DIAPH.

LOOKING NORTH AT FRONT FACE OF ABUT.



EAST EXTERIOR

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
STRUCTURES DESIGN SECTION

STRUCTURE B-70-423

DRAWN BY EMK | PLANS CK'D. ABS

SUPERSTRUCTURE CROSS SECTION

SHEET 14

463

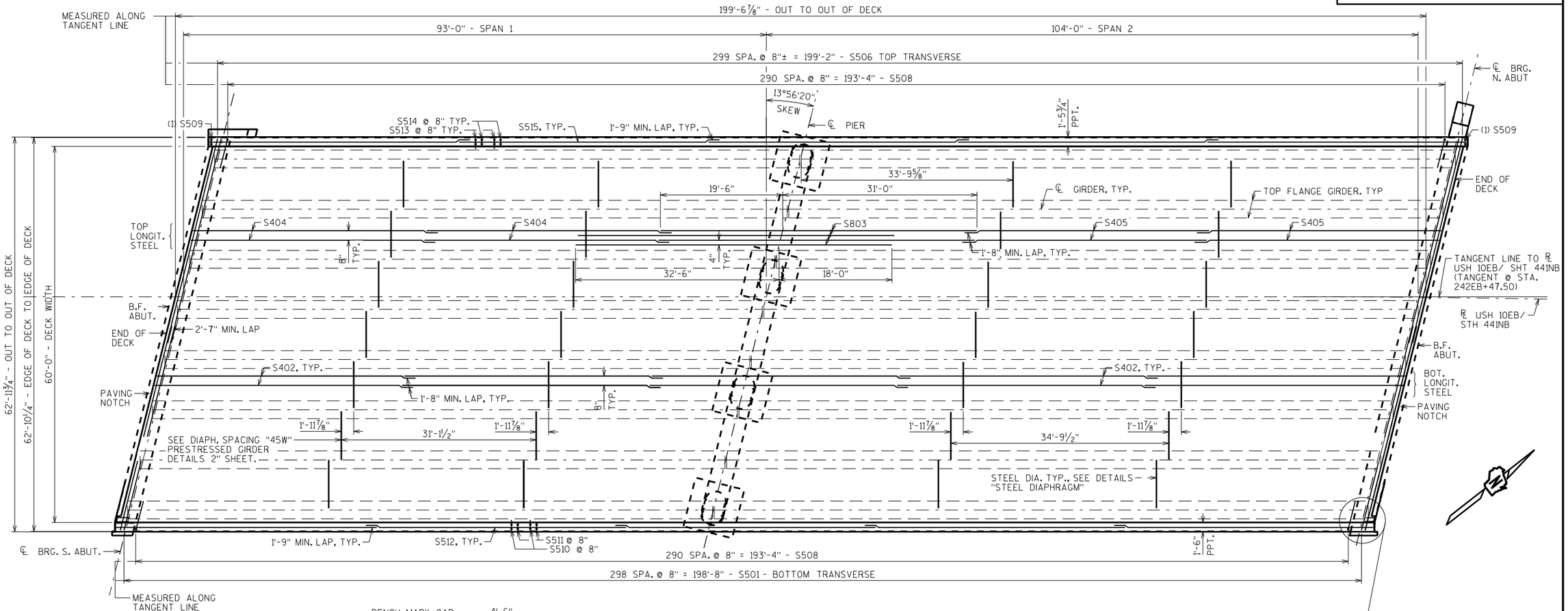
SCALE = 3.00

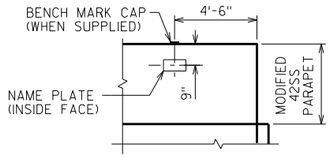
8

8

STATE PROJECT NUMBER

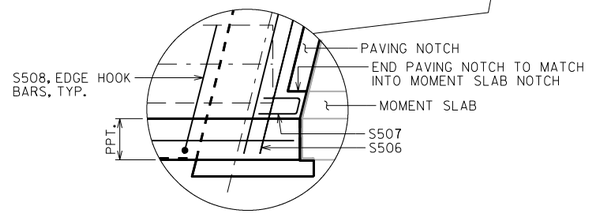
1517-75-72





SOUTHEAST CORNER PARAPET DETAIL

LOOKING AT INSIDE FACE OF PARAPET



EAST EDGE OF DECK DETAIL

EAST E.O.D. SHOWN @ NORTH ABUTMENT
EAST E.O.D. @ SOUTH ABUTMENT SIMILAR

TOP OF DECK ELEVATIONS

	S. ABUT.	1/10	2/10	3/10	4/10	5/10	6/10	7/10	8/10	9/10	CL PIER	1/10	2/10	3/10	4/10	5/10	6/10	7/10	8/10	9/10	N. ABUT.
W. EOD	787.63	787.76	787.89	788.03	788.16	788.28	788.41	788.54	788.66	788.79	788.91	789.04	789.17	789.30	789.43	789.56	789.68	789.81	789.93	790.05	790.16
GIR. 1	787.56	787.70	787.83	787.96	788.09	788.21	788.34	788.46	788.58	788.70	788.82	788.96	789.08	789.21	789.34	789.46	789.58	789.70	789.82	789.94	790.06
GIR. 2	787.34	787.46	787.59	787.71	787.83	787.94	788.06	788.18	788.29	788.40	788.51	788.63	788.75	788.87	788.99	789.10	789.22	789.33	789.44	789.55	789.65
GIR. 3	787.12	787.23	787.35	787.46	787.57	787.68	787.79	787.89	788.00	788.10	788.20	788.32	788.43	788.54	788.64	788.75	788.85	788.95	789.05	789.15	789.25
TANGENT	786.96	787.06	787.17	787.28	787.38	787.48	787.59	787.69	787.78	787.88	787.98	788.08	788.18	788.28	788.38	788.48	788.58	788.67	788.76	788.85	788.94
RL	786.96	787.06	787.17	787.28	787.38	787.48	787.59	787.69	787.78	787.88	787.98	788.08	788.18	788.28	788.38	788.48	788.58	788.67	788.76	788.85	788.94
GIR. 4	786.90	787.01	787.11	787.22	787.32	787.42	787.52	787.62	787.71	787.81	787.90	788.00	788.10	788.20	788.30	788.40	788.49	788.58	788.67	788.76	788.85
GIR. 5	786.69	786.79	786.88	786.98	787.07	787.16	787.25	787.34	787.43	787.52	787.60	787.69	787.79	787.87	787.96	788.05	788.13	788.21	788.29	788.37	788.45
GIR. 6	786.48	786.57	786.66	786.74	786.83	786.91	786.99	787.07	787.15	787.23	787.31	787.39	787.47	787.55	787.63	787.70	787.78	787.85	787.92	787.99	788.06
GIR. 7	786.27	786.35	786.43	786.51	786.59	786.66	786.74	786.81	786.88	786.95	787.01	787.09	787.16	787.23	787.30	787.36	787.43	787.49	787.55	787.61	787.67
GIR. 8	786.07	786.14	786.21	786.28	786.35	786.42	786.48	786.54	786.61	786.67	786.72	786.79	786.85	786.91	786.97	787.02	787.08	787.13	787.18	787.23	787.28
E. EOD	786.03	786.09	786.16	786.23	786.29	786.36	786.42	786.48	786.54	786.60	786.66	786.72	786.78	786.83	786.89	786.94	787.00	787.05	787.09	787.14	787.19

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
STRUCTURES DESIGN SECTION

STRUCTURE B-70-423

DRAWN BY EMK | PLANS CK'D. ABS

SUPERSTRUCTURE PLAN

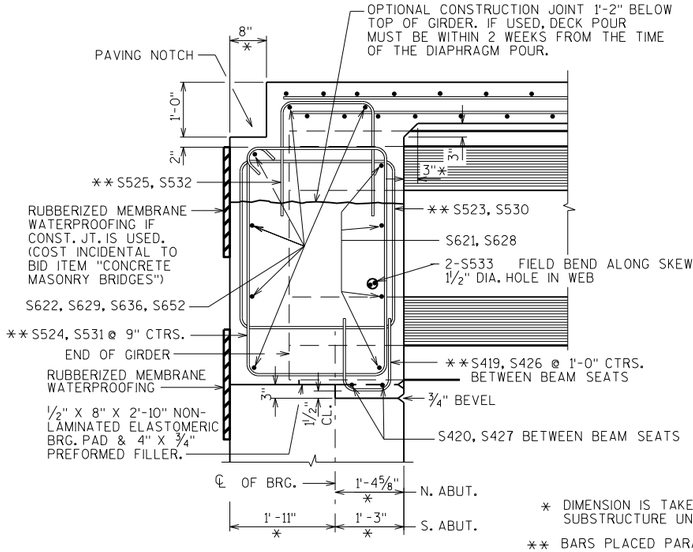
SHEET 15

464

SCALE = 8.00

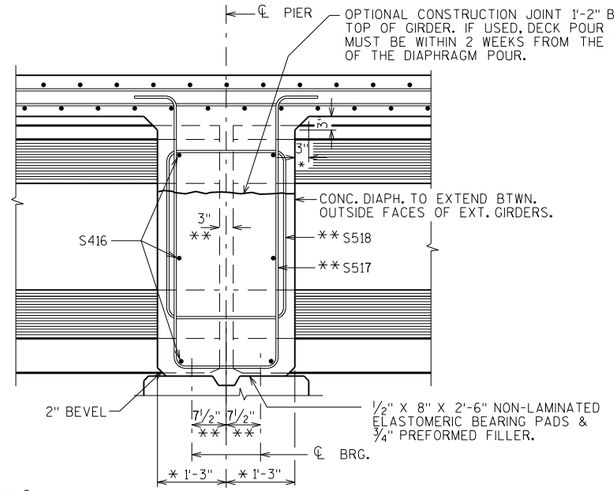
STATE PROJECT NUMBER

1517-75-72



AT ABUTMENTS

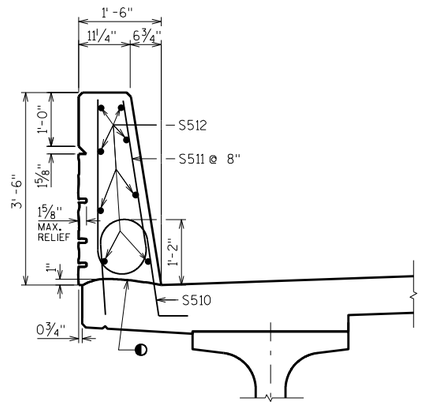
PART LONGIT. SECTION



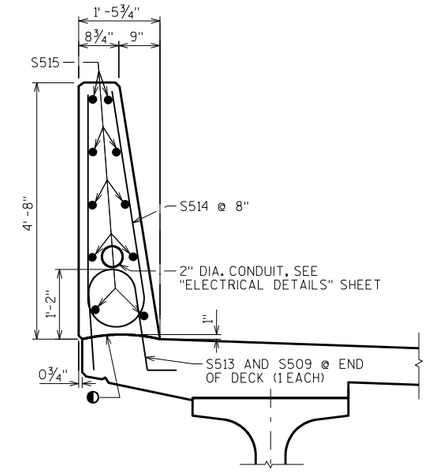
AT PIER DIAPHRAGM

* DIMENSION IS TAKEN NORMAL TO ℄ SUBSTRUCTURE UNITS.

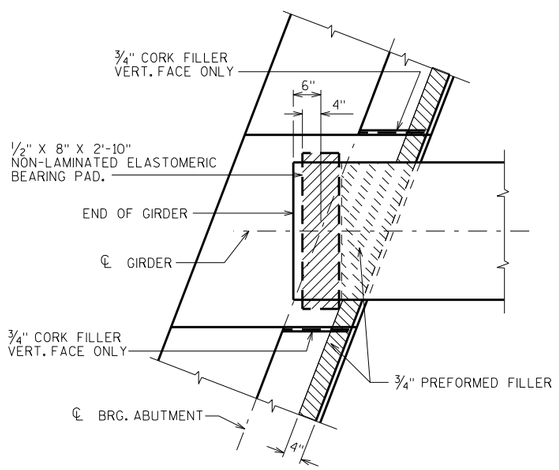
** BARS PLACED PARALLEL TO GIRDERS SPACING PERPENDICULAR TO ℄ GIRDERS



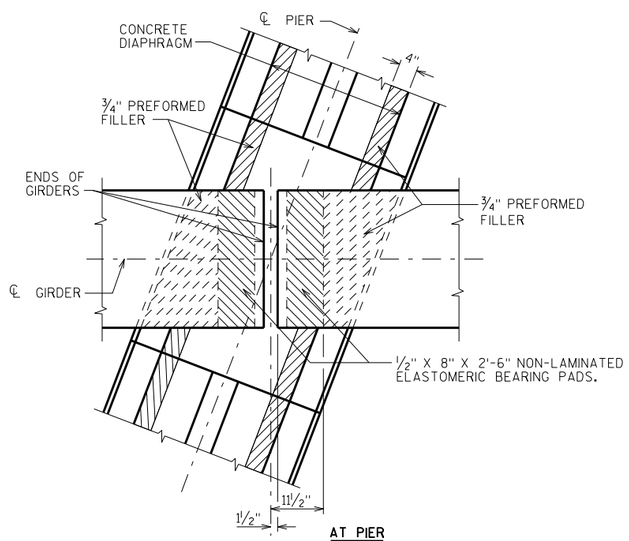
SECTION THRU PARAPET 42SS "MODIFIED" ON DECK



SECTION THRU PARAPET 56SS ON DECK



AT ABUTMENTS



AT PIER

BEARING PAD DETAIL

◐ LEAVE AREA UNDER PARAPET ROUGH

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
STRUCTURES DESIGN SECTION

STRUCTURE B-70-423

DRAWN BY EMK | PLANS CK'D. ABS

SUPERSTRUCTURE DETAILS

SHEET 16

465

SCALE = 1.33

8

8

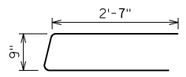
STATE PROJECT NUMBER

1517-75-72

BILL OF BARS

NOTE: THE FIRST OR FIRST TWO DIGITS OF THE BAR MARK SIGNIFIES THE BAR SIZE

BAR MARK	COAT	NO. REQ'D.	LENGTH	BENT	BAR SERIES	LOCATION
S501	X	598	33'-7"			TRANSVERSE - BOT.
S402	X	475	41'-5"			LONGITUDINAL - BOT.
S803	X	187	50'-6"			CONTINUITY - TOP - OVER PIERS
S404	X	94	39'-2"			LONGITUDINAL - TOP - SPAN 1
S405	X	94	38'-9"			LONGITUDINAL - TOP - SPAN 2
S506	X	600	33'-7"			TRANSVERSE - TOP
S507	X	2	5'-8"	X		TRANSVERSE - TOP - EAST CORNERS
S508	X	582	5'-6"	X		TRANSVERSE - TOP - DECK EDGES
S509	X	2	5'-11"	X		PPT. 56SS - VERT.
S510	X	301	4'-5"	X		PPT. 42SS MOD. - VERT.
S511	X	301	6'-8"	X		PPT. 42SS MOD. - VERT.
S512	X	40	41'-7"			PPT. 42SS MOD. - HORIZ.
S513	X	299	4'-6"	X		PPT. 56SS - VERT.
S514	X	301	9'-1"	X		PPT. 56SS - VERT.
S515	X	50	41'-7"			PPT. 56SS - HORIZ.
S416	X	42	4'-5"			PIER DIAPH. - HORIZ.
S517	X	42	11'-9"	X		PIER DIAPH. - VERT.
S518	X	14	9'-5"	X		PIER DIAPH. - VERT. - BETWEEN GIRDERS
S419	X	42	3'-7"	X		SOUTH ABUT. DIAPH. - VERT. BETWEEN GIRDERS
S420	X	14	4'-3"			SOUTH ABUT. DIAPH. - HORIZ. BETWEEN GIRDERS
S621	X	56	4'-9"			SOUTH ABUT. DIAPH. - HORIZ. BETWEEN GIRDERS
S622	X	12	33'-8"			SOUTH ABUT. DIAPH. - HORIZ.
S523	X	14	10'-10"	X		SOUTH ABUT. DIAPH. - VERT. BETWEEN GIRDER FLANGES
S524	X	56	13'-2"	X		SOUTH ABUT. DIAPH. - VERT. BETWEEN GIRDERS
S525	X	56	7'-4"	X		SOUTH ABUT. DIAPH. - VERT. BETWEEN GIRDERS
S426	X	42	3'-7"	X		NORTH ABUT. DIAPH. - VERT. BETWEEN GIRDERS
S427	X	14	4'-3"			NORTH ABUT. DIAPH. - HORIZ. BETWEEN GIRDERS
S628	X	56	4'-9"			NORTH ABUT. DIAPH. - HORIZ. BETWEEN GIRDERS
S629	X	12	33'-8"			NORTH ABUT. DIAPH. - HORIZ.
S530	X	14	10'-10"			NORTH ABUT. DIAPH. - VERT. BETWEEN GIRDER FLANGES
S531	X	56	13'-2"	X		NORTH ABUT. DIAPH. - VERT. BETWEEN GIRDERS
S532	X	56	7'-4"	X		NORTH ABUT. DIAPH. - VERT. BETWEEN GIRDERS
S533	X	32	6'-0"			ABUT. DIAPH. - THRU GIRDER
S434	X	2	6'-7"	X		SOUTH ABUT. DIAPH. E. EXT. - HORIZ.
S435	X	3	7'-6"	X		SOUTH ABUT. DIAPH. E. EXT. - HORIZ.
S636	X	4	4'-9"	X		SOUTH ABUT. DIAPH. E. EXT. - HORIZ.
S537	X	1	10'-10"	X		SOUTH ABUT. DIAPH. E. EXT. - VERT.
S538	X	1	15'-0"	X		SOUTH ABUT. DIAPH. E. EXT. - VERT.
S539	X	1	14'-10"	X		SOUTH ABUT. DIAPH. E. EXT. - VERT.
S540	X	1	14'-4"	X		SOUTH ABUT. DIAPH. E. EXT. - VERT.
S541	X	5	4'-3"			SOUTH ABUT. DIAPH. E. EXT. - VERT.
S442	X	1	6'-9"	X		SOUTH ABUT. DIAPH. W. EXT. - HORIZ.
S443	X	3	7'-9"	X		SOUTH ABUT. DIAPH. W. EXT. - HORIZ.
S544	X	1	10'-10"	X		SOUTH ABUT. DIAPH. W. EXT. - VERT.
S545	X	1	13'-6"	X		SOUTH ABUT. DIAPH. W. EXT. - VERT.
S546	X	1	15'-6"	X		SOUTH ABUT. DIAPH. W. EXT. - VERT.
S547	X	1	15'-10"	X		SOUTH ABUT. DIAPH. W. EXT. - VERT.
S548	X	1	7'-4"	X		SOUTH ABUT. DIAPH. W. EXT. - VERT.
S449	X	2	4'-5"			SOUTH ABUT. DIAPH. W. EXT. - VERT.
S450	X	2	7'-6"	X		NORTH ABUT. DIAPH. E. EXT. - HORIZ.
S451	X	3	8'-6"	X		NORTH ABUT. DIAPH. E. EXT. - HORIZ.
S652	X	4	4'-9"	X		NORTH ABUT. DIAPH. E. EXT. - HORIZ.
S553	X	1	11'-1"	X		NORTH ABUT. DIAPH. E. EXT. - VERT.
S554	X	1	15'-3"	X		NORTH ABUT. DIAPH. E. EXT. - VERT.
S555	X	1	15'-4"	X		NORTH ABUT. DIAPH. E. EXT. - VERT.
S556	X	1	15'-10"	X		NORTH ABUT. DIAPH. E. EXT. - VERT.
S557	X	5	4'-3"			NORTH ABUT. DIAPH. E. EXT. - VERT.
S458	X	1	8'-7"	X		NORTH ABUT. DIAPH. W. EXT. - HORIZ.
S459	X	3	9'-7"	X		NORTH ABUT. DIAPH. W. EXT. - HORIZ.
S560	X	1	11'-1"	X		NORTH ABUT. DIAPH. W. EXT. - VERT.
S561	X	1	13'-9"	X		NORTH ABUT. DIAPH. W. EXT. - VERT.
S562	X	1	15'-7"	X		NORTH ABUT. DIAPH. W. EXT. - VERT.
S563	X	1	15'-3"	X		NORTH ABUT. DIAPH. W. EXT. - VERT.
S564	X	1	7'-5"	X		NORTH ABUT. DIAPH. W. EXT. - VERT.
S465	X	2	4'-6"			NORTH ABUT. DIAPH. W. EXT. - VERT.



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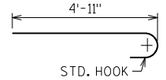

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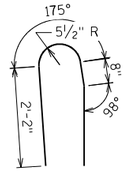

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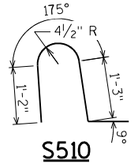

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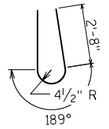

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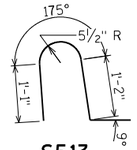

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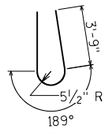

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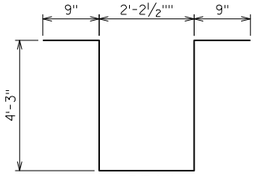

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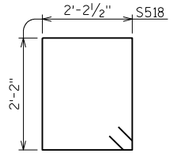

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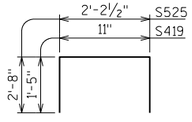
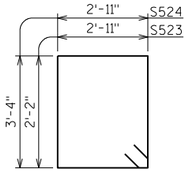
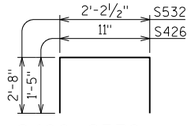


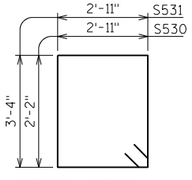
S419, S525



S523, S524



S426, S532



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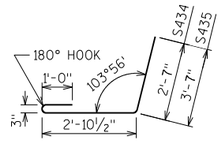

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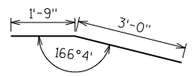

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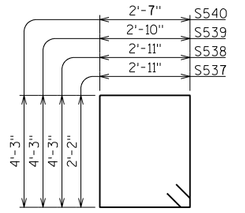
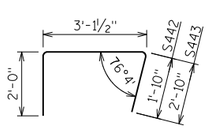
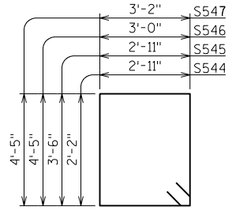


S537, S538, S539, S540

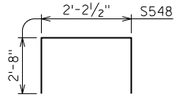
SOUTH ABUT. DIAPH. EAST EXTERIOR



S442, S443

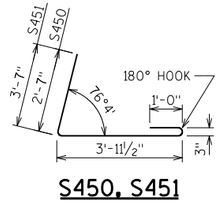


S544, S545, S546, S547

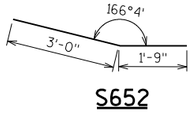


S548

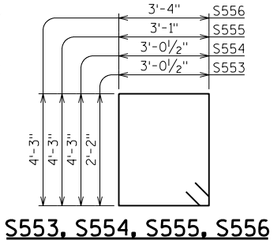
SOUTH ABUT. DIAPH. WEST EXTERIOR



S450, S451

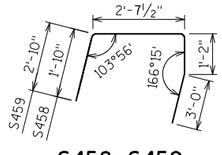


S652

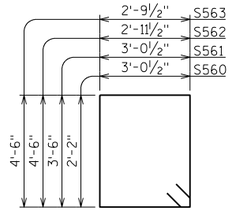


S553, S554, S555, S556

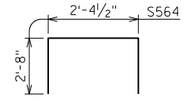
NORTH ABUT. DIAPH. EAST EXTERIOR



S458, S459



S560, S561, S562, S563



S564

NORTH ABUT. DIAPH. WEST EXTERIOR

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
STRUCTURES DESIGN SECTION

STRUCTURE B-70-423

DRAWN BY EMK | PLANS CK'D. ABS

SUPERSTRUCTURE BARS

SHEET 17

466

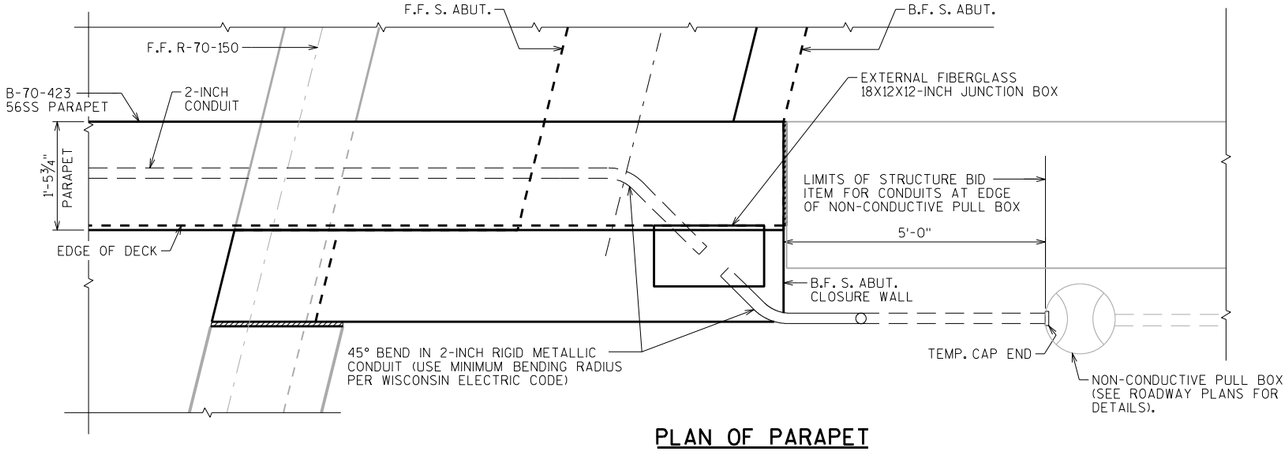
SCALE = 1.00

8

8

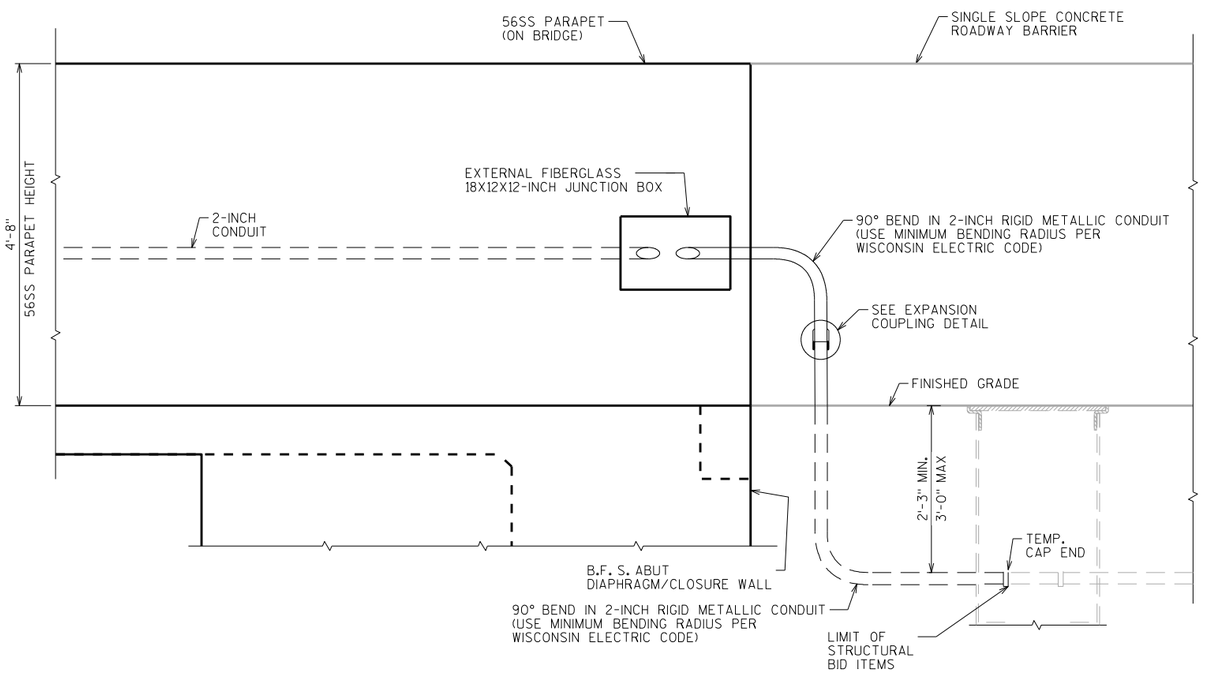
STATE PROJECT NUMBER

1517-75-72



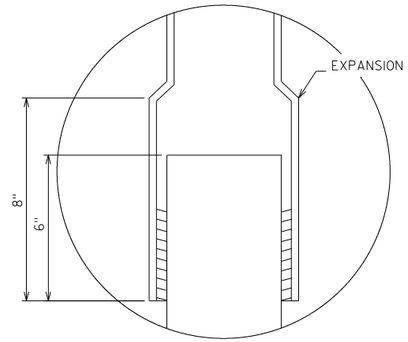
PLAN OF PARAPET

SOUTH ABUTMENT SHOWN, NORTH ABUTMENT SIMILAR
NOT TO SCALE



ELEVATION OF PARAPET AT END OF DECK

SOUTH ABUTMENT SHOWN, NORTH ABUTMENT SIMILAR
LOOKING AT THE OUTSIDE FACE OF PARAPET
NOT TO SCALE



EXPANSION COUPLING DETAIL

NOTES

EXPANSION FITTINGS, ANGLES AND ADAPTER FITTINGS TO BE INCIDENTAL TO "CONDUIT RIGID METALLIC 2-INCH".

SEE SPECIAL PROVISION "JUNCTION BOXES FIBERGLASS 18X12X12-INCH"

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
STRUCTURES DESIGN SECTION

STRUCTURE B-70-423

DRAWN BY EMK | PLANS CK'D. ABS

ELECTRICAL DETAILS

SHEET 18

467

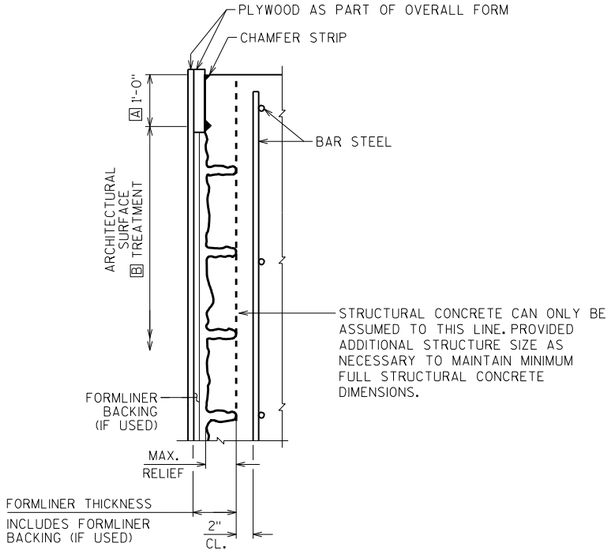
8

8

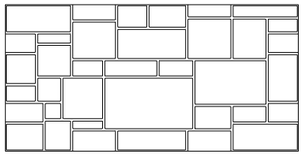
SCALE = 1.00

STATE PROJECT NUMBER

1517-75-72



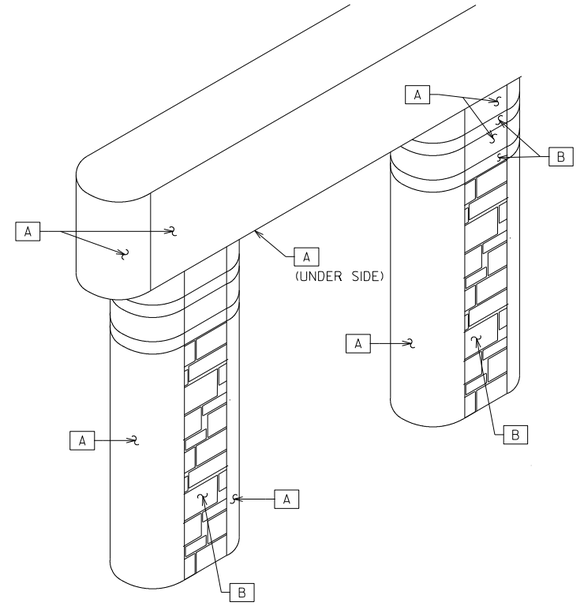
SECTION THROUGH PARAPET FORMLINER



ASHLAR

MAXIMUM RELIEF:	1⅝"
AVERAGE RELIEF:	1¼"
LINER THICKNESS*:	2½"
STONE SIZE:	H: 3" - 17" W: 5"-29"

* INCLUDES INTERNAL PLYWOOD BACKING



PIER STAINING DETAIL

CONCRETE STAINING SCHEDULE

MARK	COLOR	FED. COLOR NO.	LOCATION
A	HOPSACK	SW 6109	FASCIA GIRDERS, DECK EDGE, PLAIN CAPS, ABUT. DIAPH., PIER CAPS AND COLUMNS
B	LATTE	33522	FORMLINER ON PIER COLUMNS, NORTH ABUTMENT AND PARAPET

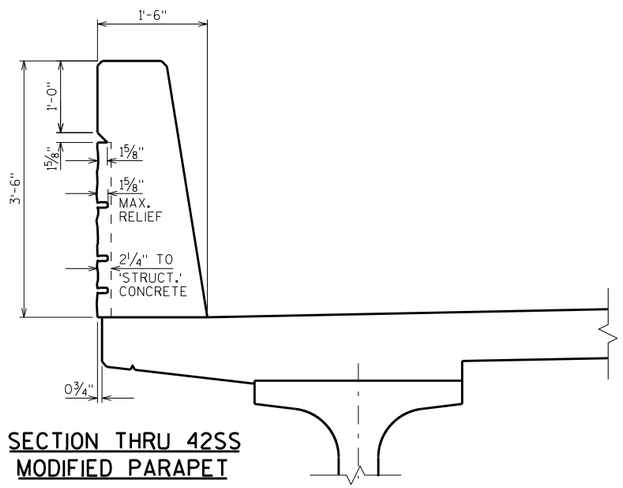
NOTE: 1. FINISH ON COLORS IS FLAT (LUSTERLESS)

NOTES

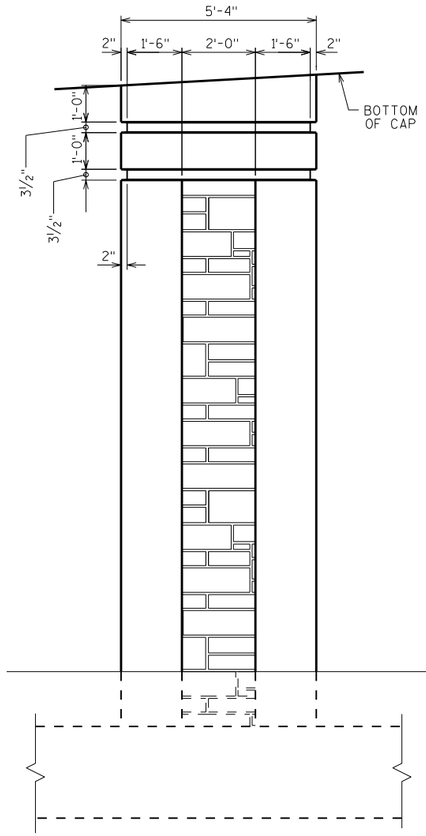
FORMLINER COURSING ON ABUTMENTS AND PIER COLUMNS SHALL BE LEVEL.

THE FORMLINER PATTERN SHALL BE CONTINUOUS ACROSS CONSTRUCTION JOINTS.

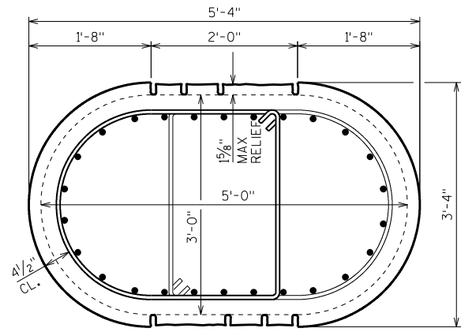
FORMLINER COURSING ON PARAPETS SHALL BE PARALLEL TO TOP OF PARAPET.



SECTION THRU 42SS MODIFIED PARAPET



PIER COLUMN DETAILS



AESTHETIC OVAL COLUMN W/ASHLAR FORMLINER

AREA = 13.07 SF (STRUCTURAL)
AREA = 15.39 SF (TOTAL)

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
STRUCTURES DESIGN SECTION

STRUCTURE B-70-423

DRAWN BY EMK | PLANS CK'D. ABS

AESTHETICS 1

SHEET 19

468

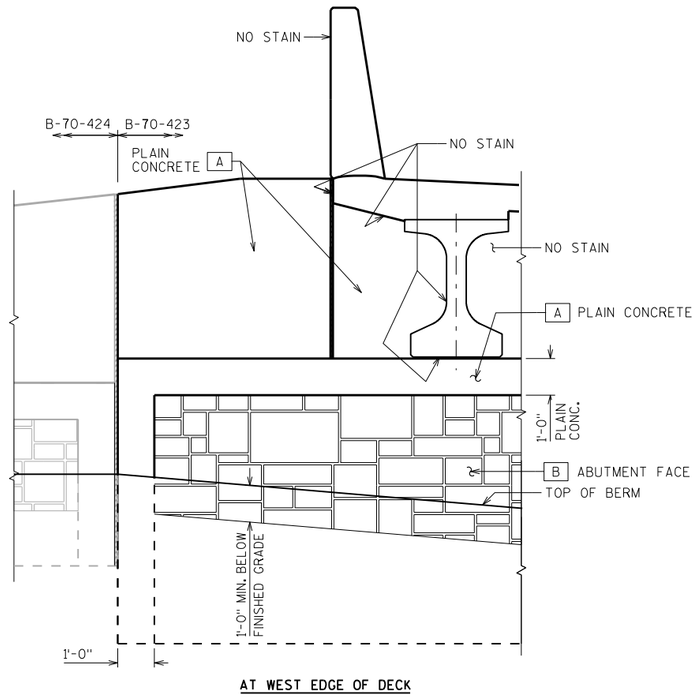
8

8

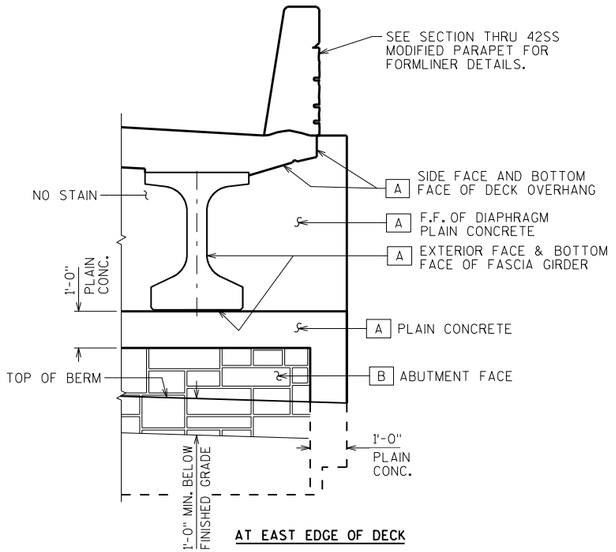
SCALE = 1.00

STATE PROJECT NUMBER

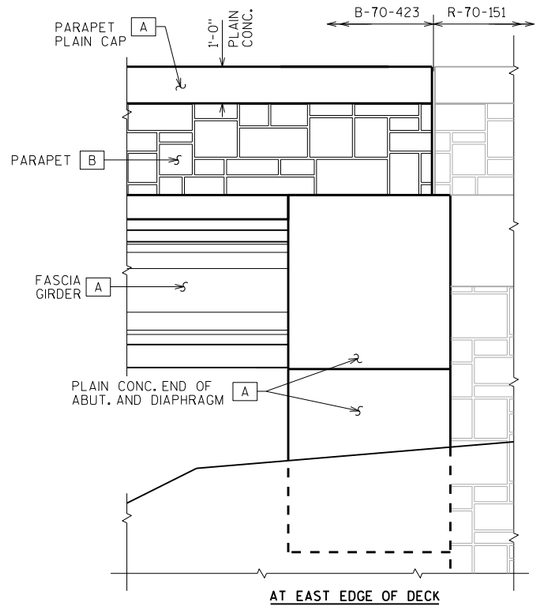
1517-75-72



AT WEST EDGE OF DECK

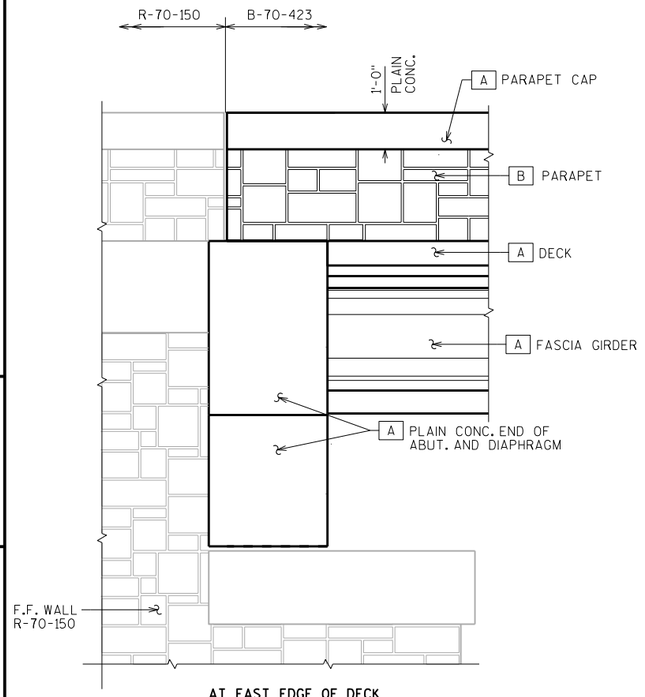


AT EAST EDGE OF DECK

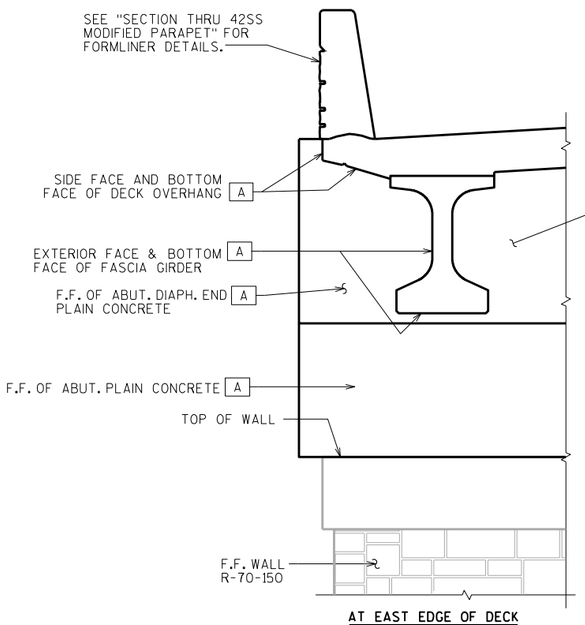


AT EAST EDGE OF DECK

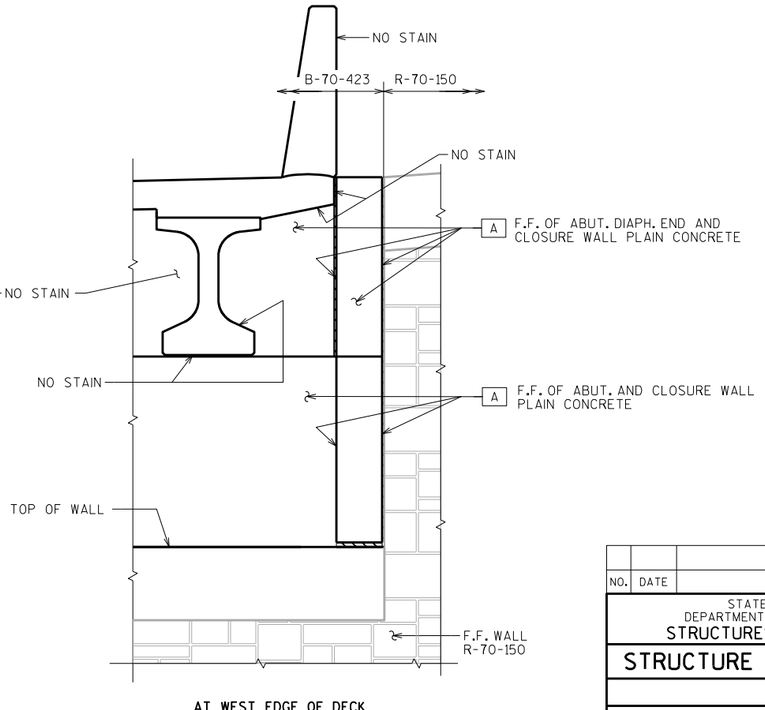
NORTH ABUTMENT AESTHETIC DETAILS



AT EAST EDGE OF DECK



AT EAST EDGE OF DECK



AT WEST EDGE OF DECK

SOUTH ABUTMENT AESTHETIC DETAILS

8

8

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
STRUCTURES DESIGN SECTION

STRUCTURE B-70-423

DRAWN BY EMK | PLANS CK'D. ABS

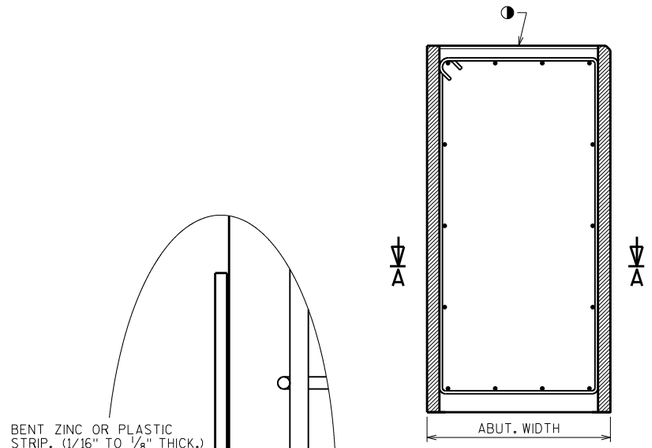
AESTHETICS 2

SHEET 20

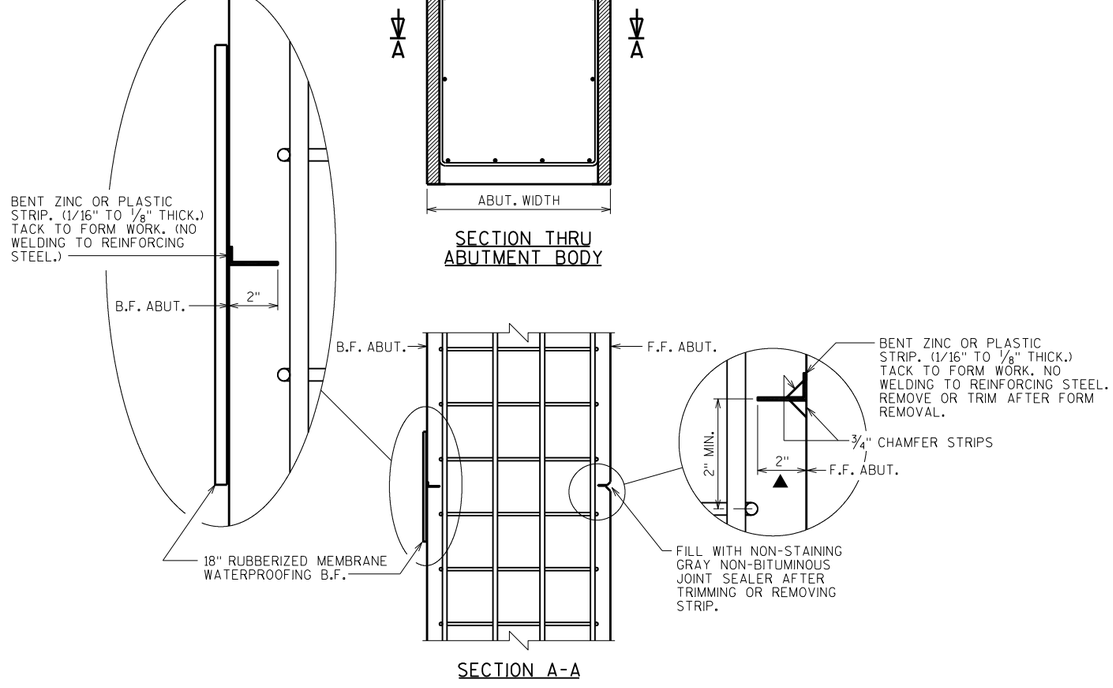
469

SCALE = 1.00

STATE PROJECT NUMBER
1517-75-72



SECTION THRU ABUTMENT BODY



SECTION A-A

ALTERNATE CONSTRUCTION JOINT AT ABUTMENT

NOTES

PARTIAL ZINC OR PLASTIC BULKHEAD MAY BE USED AS ALTERNATE CONSTRUCTION JOINT, WITH THE PERMISSION OF THE ENGINEER, AT THE CONTRACTOR'S EXPENSE.

VERTICAL CONSTRUCTION JOINT KEYWAY IS NOT REQUIRED WHEN USING ALTERNATE CONSTRUCTION JOINT.

CARE IS TO BE USED IN CASTING CONCRETE AROUND BULKHEAD TO PREVENT DISLOCATION OR MISALIGNMENT OF THE BULKHEAD.

◑ USE A JOINT TOOL TO CONSTRUCT A CONTRACTION JOINT APPROXIMATELY 1/2" DEEP.

▲ DIMENSION IS FOR ABUT. WITHOUT FORMLINER. ADD "MAX RELIEF" DIMENSION FROM "AESTHETICS 1" SHEET TO THIS DIMENSION WHERE FORMLINER IS PRESENT.

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
STRUCTURES DESIGN SECTION

STRUCTURE B-70-423

DRAWN BY EMK | PLANS CK'D. ABS

ALTERNATE CONST. JOINT

SHEET 21

470

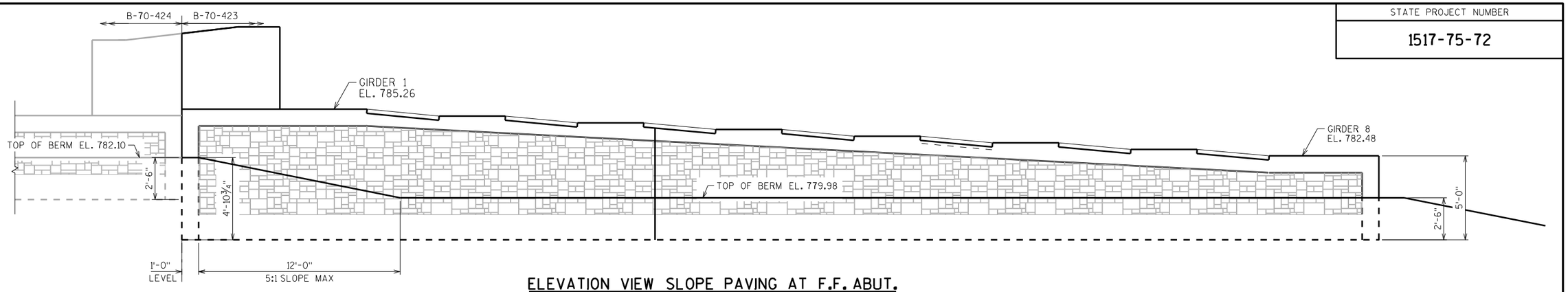
SCALE = 1.00

8

8

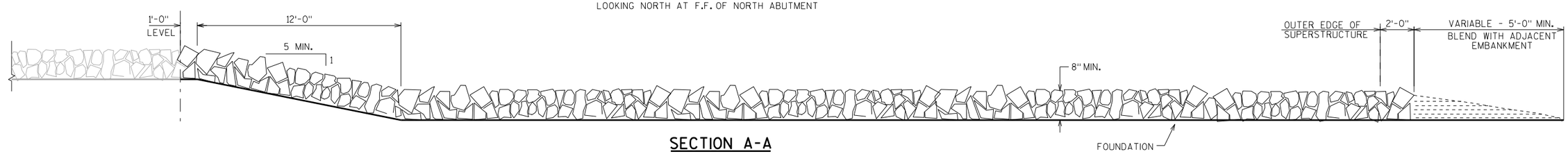
STATE PROJECT NUMBER

1517-75-72

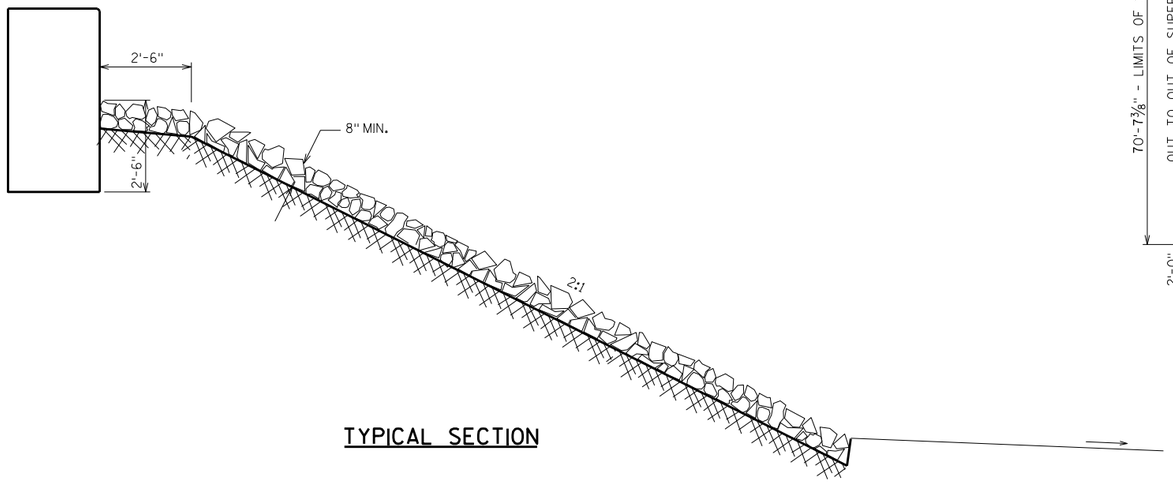


ELEVATION VIEW SLOPE PAVING AT F.F. ABUT.

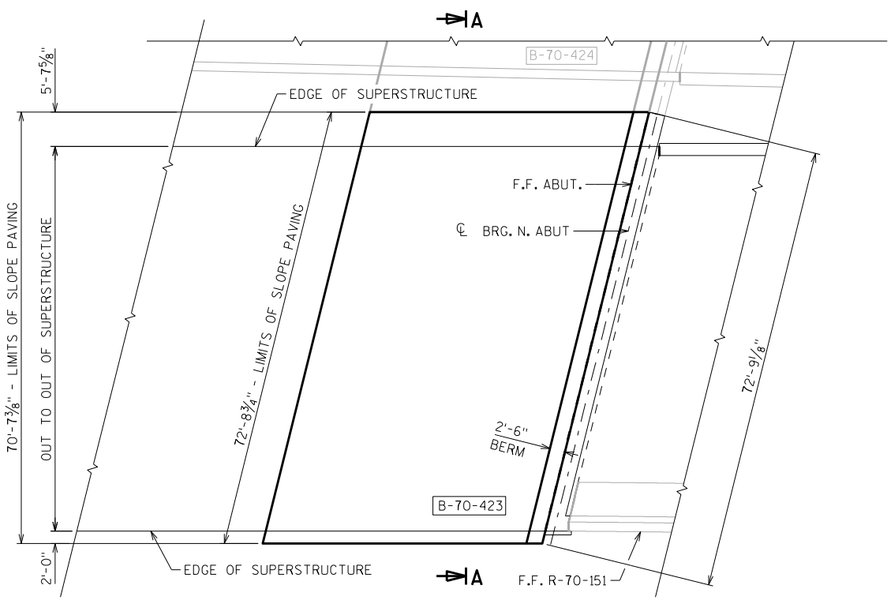
LOOKING NORTH AT F.F. OF NORTH ABUTMENT



SECTION A-A



TYPICAL SECTION



NOTES

DETAILS OF CONSTRUCTION, MATERIALS AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS.

WOOD FORMS MAY BE LEFT IN PLACE WHEN OF A QUALITY ACCEPTABLE TO THE ENGINEER.

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
STRUCTURES DESIGN SECTION

STRUCTURE B-70-423

DRAWN BY EMK | PLANS CK'D. ABS

SLOPE PAVING

SHEET 22

471

8

8

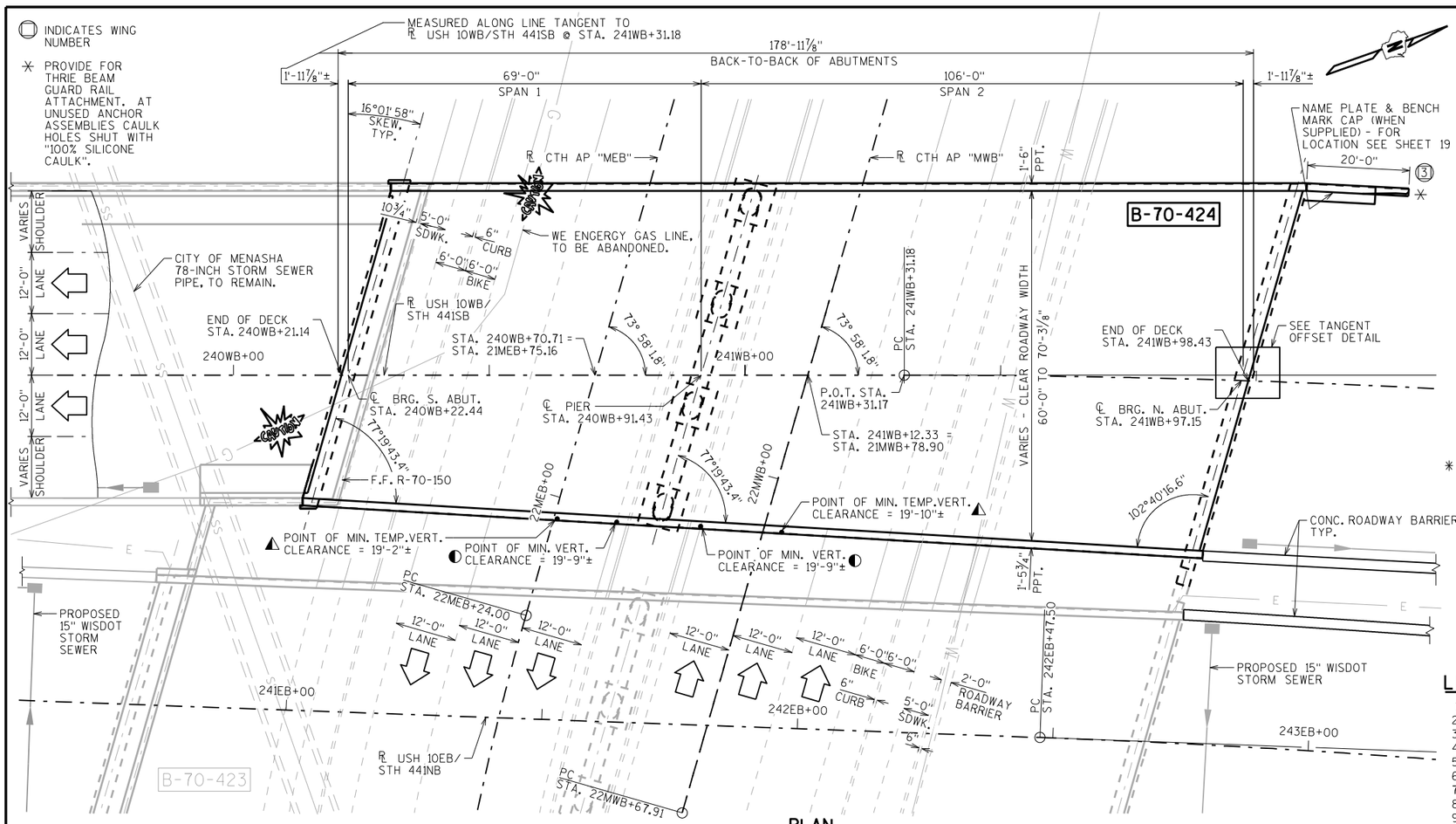
SCALE = 3.00

STATE PROJECT NUMBER

1517-75-72

INDICATES WING NUMBER

PROVIDE FOR THRIE BEAM GUARD RAIL ATTACHMENT. AT UNUSED ANCHOR ASSEMBLIES CAULK HOLES SHUT WITH "100% SILICONE CAULK".



PLAN

2-SPAN, 45W" PRESTRESSED GIRDERS

DESIGN DATA

LIVE LOAD:

DESIGN LOADING: HL-93

INVENTORY RATING FACTOR: RF= 1.10

OPERATING RATING FACTOR: RF= 1.42

WISCONSIN STANDARD PERMIT VEHICLE (WIS.-SPV): 250 (KIPS)

STRUCTURE IS DESIGNED FOR A FUTURE WEARING SURFACE OF 20 POUNDS PER SQUARE FOOT.

B-70-424 IS RATED FOR A POLYMER OVERLAY THAT WILL BE APPLIED TO THE BRIDGE DECK IN A LATER CONTRACT

MATERIAL PEOPERTIES:

CONCRETE MASONRY SUPERSTRUCTURE (HPC)	f'c = 4,000 P.S.I.
CONCRETE MASONRY ALL OTHER	f'c = 4,000 P.S.I.
BAR STEEL REINFORCEMENT, GRADE 60	fy = 60,000 P.S.I.
45W" PRESTRESSED GIRDERS, CONCRETE MASONRY STRANDS - 0.6" DIA. WITH ULTIMATE TENSILE STRENGTH OF 270,000 P.S.I.	f'c = 8,000 P.S.I.

FOUNDATION DATA

ABUTMENTS TO BE SUPPORTED ON HP 12X53 PILING DRIVEN TO A REQUIRED RESISTANCE OF 220 TONS ** PER PILE AS DETERMINED BY THE MODIFIED GATES DYNAMIC FORMULA.
ESTIMATED 55'-0" LONG AT SOUTH ABUTMENT AND
ESTIMATED 45'-0" LONG AT NORTH ABUTMENT.

PIERS TO BE SUPPORTED ON HP 12X53 PILING DRIVEN TO A REQUIRED RESISTANCE OF 220 TONS ** PER PILE AS DETERMINED BY THE MODIFIED GATES DYNAMIC FORMULA.
ESTIMATED 40'-0" LONG.

** THE FACTORED AXIAL RESISTANCE OF PILES IN COMPRESSION USED FOR DESIGN IS THE REQUIRED DRIVING RESISTANCE MULTIPLIED BY A RESISTANCE FACTOR OF 0.5 USING MODIFIED GATES TO DETERMINE DRIVEN PILE CAPACITY.

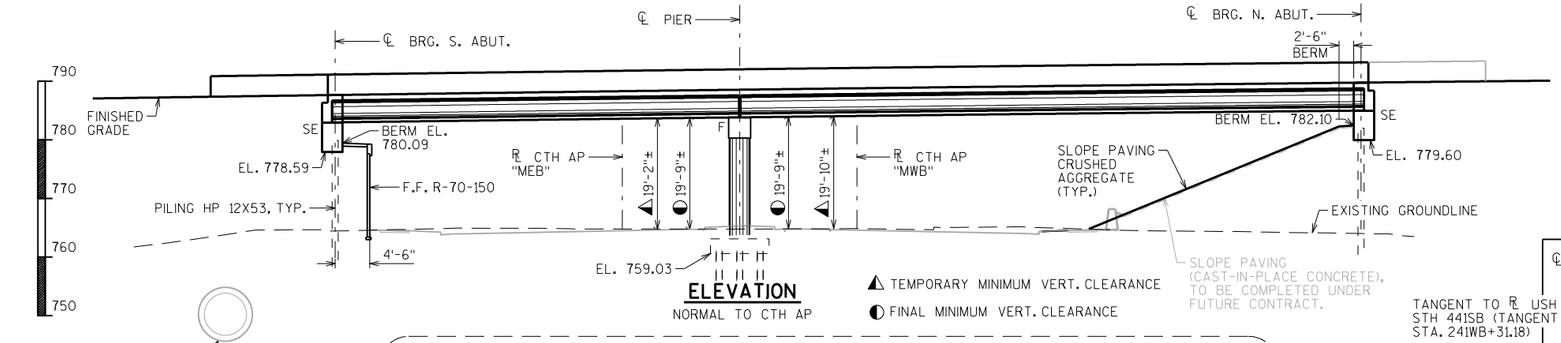
TRAFFIC VOLUME

USH 10 WB/STH 441 SB	USH 10 EB/STH 441 NB	CTH AP
A.D.T. = 35,400 (2035)	A.D.T. = 32,900 (2035)	A.D.T. = 10,700 (2035)
R.D.S. = 70 M.P.H.	R.D.S. = 70 M.P.H.	R.D.S. = 40 M.P.H.

SEE SHEET 2 FOR CURVE DATA

LIST OF DRAWINGS

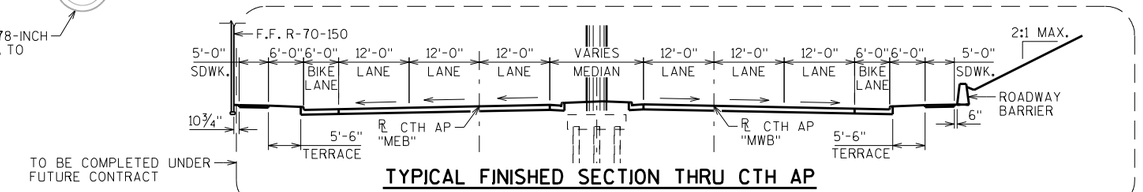
1. GENERAL PLAN
2. QUANTITIES, NOTES & PROFILES
3. CROSS SECTIONS
4. SUBSURFACE EXPLORATION
5. SOUTH ABUTMENT
6. SOUTH ABUTMENT DETAILS
7. NORTH ABUTMENT
8. NORTH ABUTMENT DETAILS
9. PIER
10. PIER DETAILS
11. 45W" PRESTRESSED GIRDER DETAILS 1
12. 45W" PRESTRESSED GIRDER DETAILS 2
13. STEEL DIAPHRAGM
14. SUPERSTRUCTURE CROSS SECTION
15. SUPERSTRUCTURE PLAN DETAILS
16. SUPERSTRUCTURE FRAMING PLAN
17. SUPERSTRUCTURE DETAILS
18. SUPERSTRUCTURE BARS
19. MODIFIED SINGLE SLOPE PARAPET 42SS
20. AESTHETICS 1
21. AESTHETICS 2
22. ALTERNATE CONST. JOINT
23. SLOPE PAVING



ELEVATION

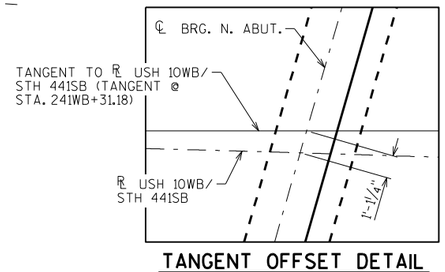
NORMAL TO CTH AP

CITY OF MENASHA 78-INCH STORM SEWER PIPE, TO REMAIN.



TYPICAL FINISHED SECTION THRU CTH AP

LOOKING WEST



TANGENT OFFSET DETAIL

NORTH ABUT. ONLY

STRUCTURE DESIGN CONTACTS:

EMILY KUEHNE (608)266-5089

AARON BONK (608)261-0261

NO.	DATE	REVISION	BY

BUREAU OF STRUCTURES

ACCEPTED William C. Dreher 2/13/17

CHIEF STRUCTURES DESIGN ENGINEER — DATE

STRUCTURE B-70-424

USH 10 WB/STH 441 SB OVER CTH AP

COUNTY	CITY
WINNEBAGO	MENASHA

DESIGN SPEC. AASHTO LRFD DESIGN SPEC.

DESIGNED BY	DESIGNED CK'D.	DRAWN BY	PLANS CK'D.
EMK	BH	EMK	ABS

GENERAL PLAN

SHEET 1 OF 23

472

I.D. 1517-07-04A

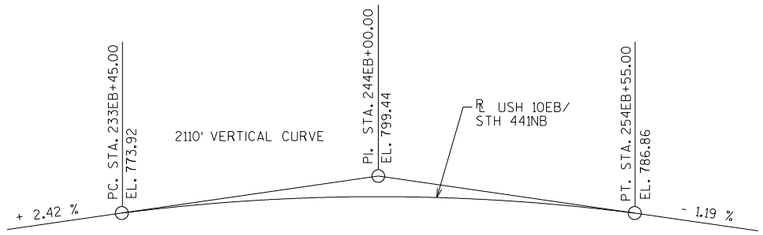
DATE: FEB. 2017

SCALE = 12.50

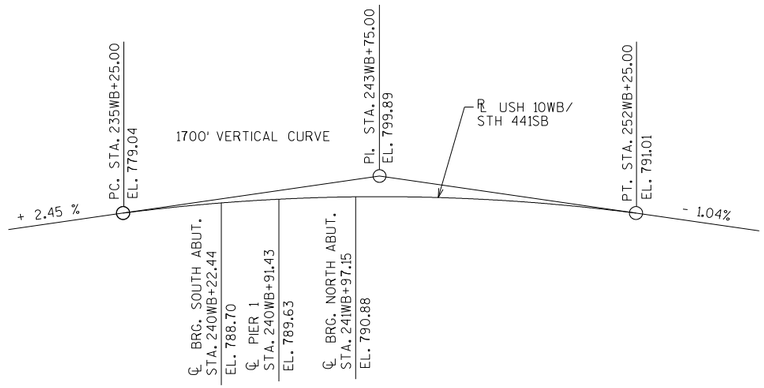
8

8

STATE PROJECT NUMBER
1517-75-72



PROFILE GRADE LINE USH 10EB/STH 441NB

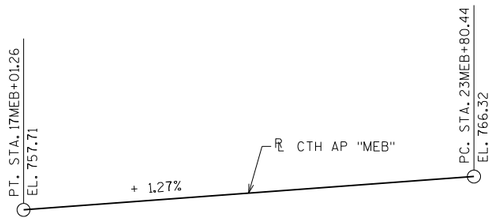


PROFILE GRADE LINE USH 10WB/STH 441SB

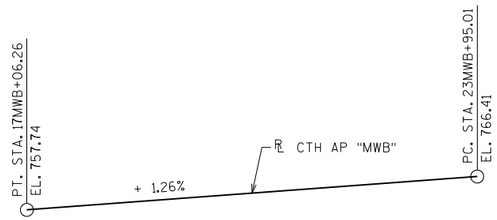
CURVE DATA

℄ CTH AP "MEB"	℄ CTH AP "MWB"
P.I. = 24MEB+15.03	P.I. = 24MEB+54.72
△ = 38° 18' 27"	△ = 36° 03' 16"
D = 10° 25' 03"	D = 9° 58' 55"
T = 191.03	T = 186.81
L = 367.72'	L = 361.20'
R = 550.00'	R = 574.00'
P.C. = 22MEB+24.00	P.C. = 22MWB+67.91
P.T. = 25MEB+91.73	P.T. = 26MWB+29.11

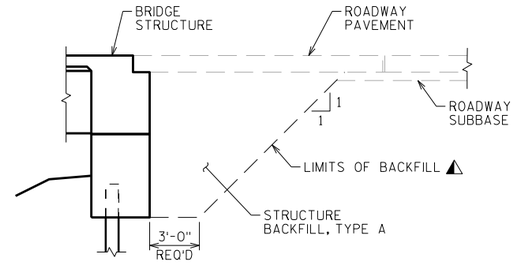
USH 10 WB/STH 441 SB
P.I. = 255WB+80.30
△ = 70° 27' 34"
D = 2° 47' 32"
T = 1449.12'
L = 2523.44'
R = 2052.00'
S.E. = 6.0 %
P.C. = 241WB+31.18
P.T. = 266WB+52.51



PROFILE GRADE LINE CTH AP "MEB"



PROFILE GRADE LINE CTH AP "MWB"



TYPICAL SECTION
THRU ABUTMENT

(A1 ABUTMENT WITHOUT STRUCTURAL APPROACH)

TOTAL ESTIMATED QUANTITIES

BID ITEM NUMBER	BID ITEMS	UNIT	SUPER.	SOUTH ABUT.	PIER	NORTH ABUT.	TOTALS
206.1000	EXCAVATION FOR STRUCTURES BRIDGES B-70-424	LS	———	———	———	———	1
210.1500	BACKFILL STRUCTURE TYPE A	TON	———	330	———	492	822
501.1000.S	ICE HOT WEATHER CONCRETING	LB	3,900	325	780	615	5,620
502.3200	PROTECTIVE SURFACE TREATMENT	SY	1,311	———	———	———	1,311
502.3210	PIGMENTED SURFACE SEALER	SY	195	———	———	10	205
503.0146	PRESTRESSED GIRDER TYPE I 45W-INCH	LF	1,576	———	———	———	1,576
505.0400	BAR STEEL REINFORCEMENT HS STRUCTURES	LB	———	4,050	1,840	5,900	11,790
505.0600	BAR STEEL REINFORCEMENT HS COATED STRUCTURES	LB	101,100	———	24,390	2,660	128,150
506.2605	BEARING PADS ELASTOMERIC NON-LAMINATED	EACH	36	———	———	———	36
506.4000	STEEL DIAPHRAGMS B-70-424	EACH	24	———	———	———	24
516.0500	RUBBERIZED MEMBRANE WATERPROOFING	SY	25	3	———	7	35
517.1010.S	CONCRETE STAINING B-70-424	SF	2,505	350	1,930	640	5,425
517.1050.S	ARCHITECTURAL SURFACE TREATMENT B-70-424	SF	450	———	255	435	1,140
550.0010	PRE-BORING (UNCONSOLIDATED MATERIALS)	LF	———	20	———	———	20
550.1120	PILING STEEL HP 12-INCH X 53LB	LF	———	660	1,360	765	2,785
604.0400	SLOPE PAVING CONCRETE	SY	———	18	———	———	18
604.0600	SLOPE PAVING SELECT CRUSHED AGGREGATE	SY	———	———	———	385	385
612.0406	PIPE UNDERDRAIN WRAPPED 6-INCH	LF	———	———	———	115	115
614.0150	ANCHOR ASSEMBLIES FOR STEEL PLATE BEAM GUARD	EACH	———	———	———	1	1
SPV.0035	MODIFIED HIGH PERFORMANCE CONCRETE (HPC) MASONRY BRIDGES	CY	520	43	104	82	749
	NON-BID ITEMS						
	FILLER	SIZE	———	———	———	———	½", ¾", 1", 1½"

GENERAL NOTES

DRAWINGS SHALL NOT BE SCALED.

BAR STEEL REINFORCEMENT SHALL BE EMBEDDED 2" CLEAR UNLESS OTHERWISE SHOWN OR NOTED.

THE FIRST OR FIRST TWO DIGITS OF THE BAR MARK SIGNIFIES THE BAR SIZE.

BEVEL EXPOSED EDGES OF CONCRETE ¾"UNLESS OTHERWISE NOTED.

⚠ AT THE BACK FACE OF ABUTMENT ALL VOLUME WHICH CANNOT BE PLACED BEFORE ABUTMENT CONSTRUCTION AND IS NOT OCCUPIED BY THE NEW STRUCTURE SHALL BE BACKFILLED WITH STRUCTURE BACKFILL.

ELASTOMERIC BEARING PADS NEED NOT BE INDIVIDUALLY MOLDED PROVIDED THE CUT EDGES ARE SMOOTH AND TRUE.

THE QUANTITY FOR BACKFILL STRUCTURE IS CALCULATED BASED ON THE DETAIL SHOWN IN THE PLANS.

PROTECTIVE SURFACE TREATMENT TO BE APPLIED TO THE ENTIRE EXPOSED TOP OF DECK AND TO THE VERTICAL AND HORIZONTAL SURFACES OF THE PAVING NOTCHES AT ABUTMENT DIAPHRAGMS.

PIGMENTED SURFACE SEALER TO BE APPLIED TO THE FRONT FACE AND THE TOP OF THE PARAPETS.

THE SLOPE OF THE FILL IN FRONT OF THE ABUTMENTS SHALL BE COVERED WITH SLOPE PAVING MATERIAL TO THE EXTENT SHOWN ON SHEET 1 AND THE ABUTMENT DETAILS.

THE HAUNCH CONCRETE QUANTITY IS BASED ON THE AVERAGE HAUNCH SHOWN ON THE "45W PRESTRESSED GIRDER DETAILS 2" SHEET.

THE CONCRETE QUANTITY FOR ALL SUPERSTRUCTURE AND SUBSTRUCTURE CONCRETE (EXCLUDING THE GIRDERS) SHALL BE PAID FOR UNDER THE BID ITEM "MODIFIED HIGH PERFORMANCE CONCRETE (HPC) MASONRY BRIDGES".

TRANSVERSE TINING OF THE BRIDGE DECK SHALL BE DONE BY HAND AND SHALL BE PAID FOR UNDER BID ITEM "MODIFIED HIGH PERFORMANCE (HPC) MASONRY BRIDGES."

THE EXISTING GROUND LINE SHALL BE USED AS THE UPPER LIMITS OF EXCAVATION AT THE PIER.

⚠ BACKFILL PAY LIMITS. BACKFILL BEYOND BACKFILL PAY LIMITS SHALL BE INCIDENTAL TO EXCAVATION FOR STRUCTURES. LIMITS OF EXCAVATION SHALL BE DETERMINED BY THE CONTRACTOR.

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
STRUCTURES DESIGN SECTION

STRUCTURE B-70-424

DRAWN BY EMK | PLANS CK'D. ABS

QUANTITIES, NOTES & PROFILES

SHEET 2

473

SCALE = 1.00

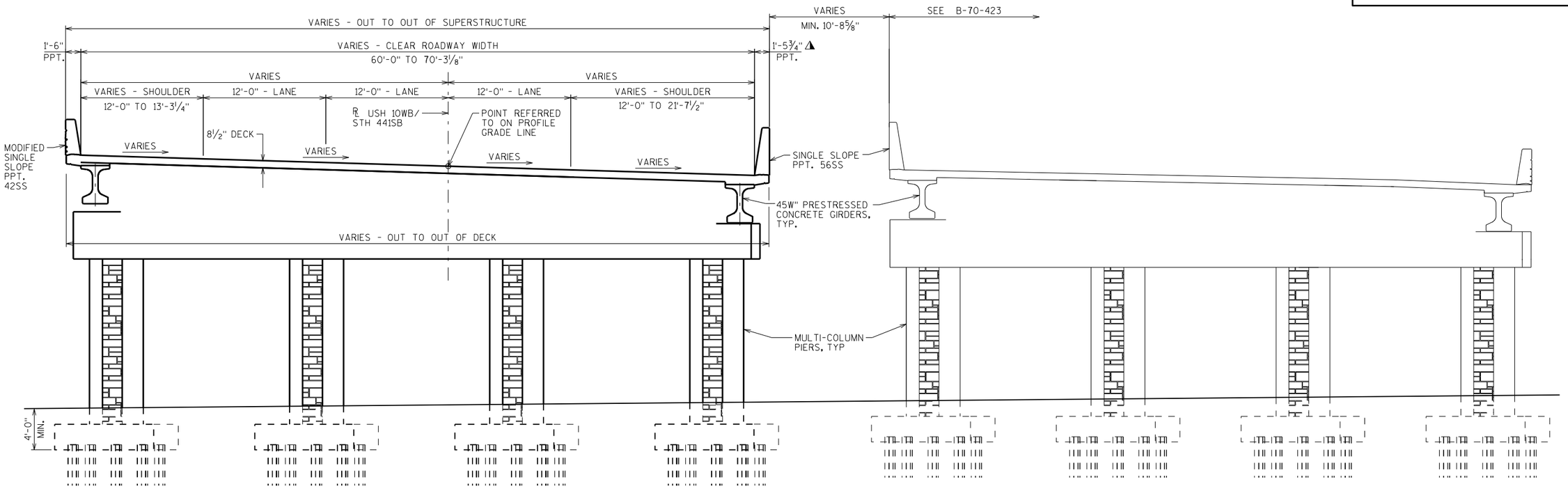
8

8

STATE PROJECT NUMBER

1517-75-72

⚠ DIMENSION TAKEN NORMAL TO PPT.



CROSS SECTION THRU ROADWAY LOOKING NORTH
B-70-424

CROSS SECTION THRU ROADWAY LOOKING NORTH
B-70-423

CROWN → ← ℄ USH 10WB/STH 441SB

STATION	DESCRIPTION	LEFT OUTSIDE SHOULDER	LEFT OUTSIDE LANE	INSIDE LANE	RIGHT INSIDE LANE	RIGHT INSIDE SHOULDER
239WB+36.53	LEVEL CROWN	0.0%	0.0%	0.0%	0.0%	0.0%
240WB+56.53	REVERSE CROWN	2.0% →	2.0% →	2.0% →	2.0% →	2.0% →
242WB+42.49	BEGIN SHOULDER BREAK	5.1% →	5.1% →	5.1% →	5.1% →	5.1% →

USH 10WB/STH 441SB SUPERELEVATION TRANSITION
FOR INFORMATION ONLY, SEE ROADWAY PLANS FOR DETAILS

℄ USH 10EB/STH 441NB → CROWN →

STATION	DESCRIPTION	LEFT INSIDE SHOULDER	LEFT INSIDE LANE	INSIDE LANE	RIGHT OUTSIDE LANE	RIGHT OUTSIDE SHOULDER
239EB+16.23	LEVEL CROWN	0.0%	0.0%	0.0%	0.0%	2.0% →
240EB+36.23	REVERSE CROWN	2.0% →	2.0% →	2.0% →	2.0% →	2.0% →
243EB+08.79	BEGIN SHOULDER BREAK	5.3% →	5.3% →	5.3% →	5.3% →	5.3% →

USH 10EB/STH 441NB SUPERELEVATION TRANSITION
FOR INFORMATION ONLY, SEE ROADWAY PLANS FOR DETAILS

8

8

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
STRUCTURES DESIGN SECTION

STRUCTURE B-70-424

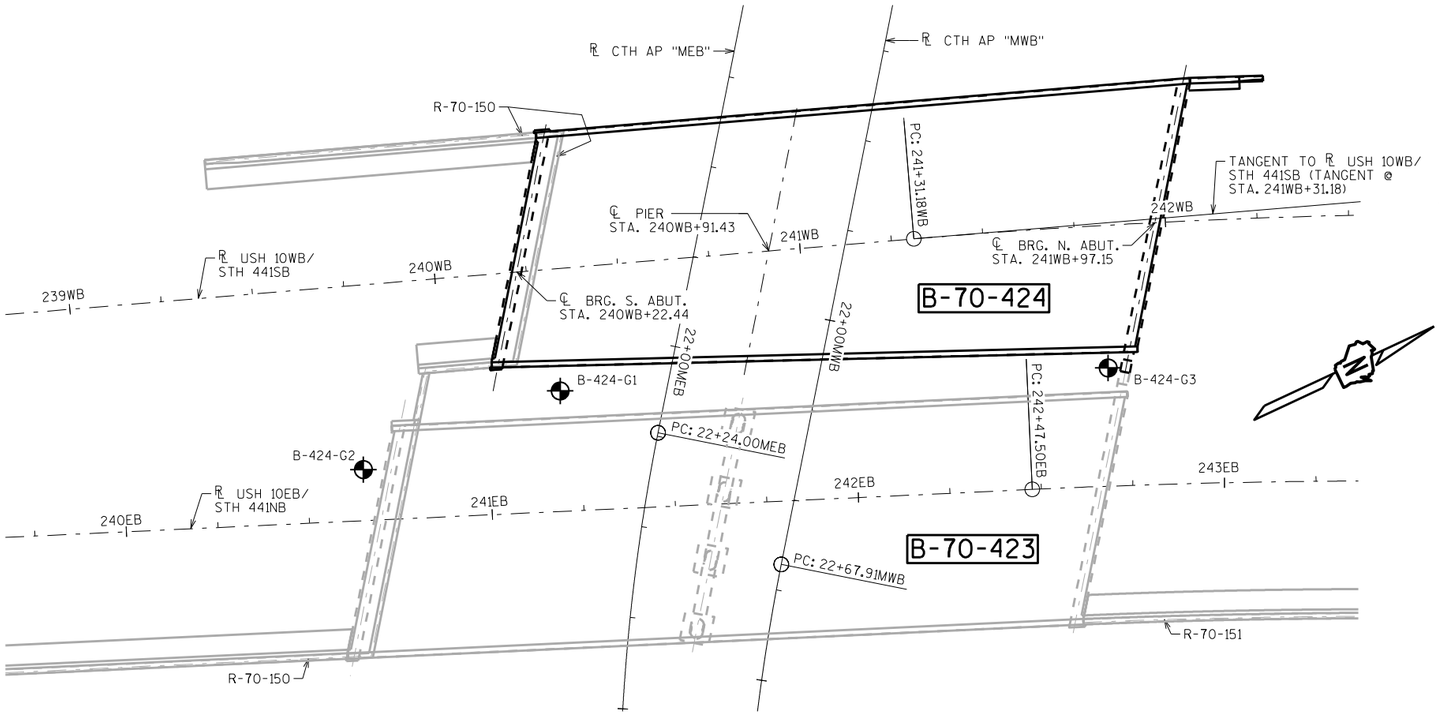
DRAWN BY EMK | PLANS CK'D. ABS

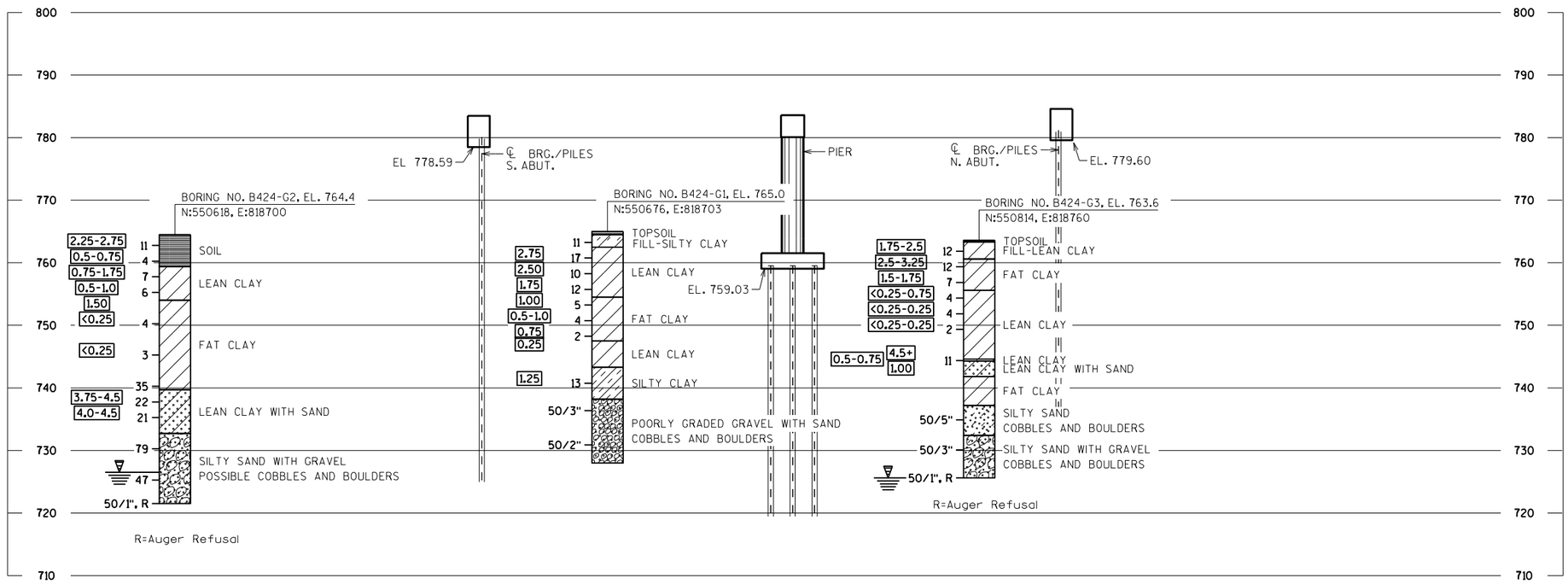
CROSS SECTIONS

SHEET 3

474

SCALE = 5.00





NOTES:

THE SUBSURFACE INFORMATION PRESENTED HEREIN IS AN ABBREVIATED VERSION OF THE INFORMATION PRESENTED IN THE GEOTECHNICAL ENGINEERING REPORT. REVIEW THE APPROPRIATE GEOTECHNICAL REPORT AND SOIL BORING LOGS FOR ADDITIONAL SUBSURFACE INFORMATION.

WATER LEVELS INDICATED MAY NOT BE REPRESENTATIVE OF STATIC WATER LEVELS.

HISTORICAL BORING LOCATIONS ARE APPROXIMATE. ADDITIONAL INFORMATION IS AVAILABLE FROM THE WISCONSIN DEPARTMENT OF TRANSPORTATION.

⊕ DENOTES SOIL BORING LOCATION

SOIL BORINGS COMPLETED BY:
HNTB

SOIL BORING TAKEN:
FEBRUARY 13, 2012 - BORING B424-G1
DECEMBER 19, 2012 - BORING B424-G2
DECEMBER 19, 2012 - BORING B424-G3

STATE PROJECT NUMBER

1517-75-72

ABBREVIATIONS

F — FINE M — MEDIUM C — COARSE
WS — WEATHERED SO — SOUND

MATERIAL SYMBOLS

TOPSOIL / FILL, SAND, GRAVEL, SILT, PEAT, CLAY, SANDSTONE, LIMESTONE, IGNEOUS ROCK

LEGEND OF PROBING

PROBING NO.
STA.
ELEVATION
7 AVERAGE BLOWS PER FOOT
REFUSAL 95/6

95/6=95 BLOWS FOR 6" PENETRATION
PROBING TAKEN WITH A 350# WT. FALLING 18" ON A 2" O.D. POINT.

LEGEND OF BORING

BORING NO.
ELEV.
STA.
UNCONFINED STRENGTH → 7.7 7
BLOWS PER FT. USING 140# WT. FALLING 30"
WASH SAMPLE
SHELBY TUBE — S.T.
GROUND WATER ELEVATION
NO GROUND WATER OBSERVED ABOVE THIS ELEVATION
SANDY GRAVEL
F. BOULDERS OR COBBLES
SAND
SILTY CLAY
SO LIMESTONE

UNLESS OTHERWISE SPECIFIED, THE BLOWS PER FOOT AT THE LOCATIONS INDICATED ARE BASED ON DRIVING A 2" O.D. X 1.4" I.D. SPLIT SPOON SAMPLER WITH A 140# HAMMER HAVING A FREE FALL OF 30". THE BLOW COUNT IS TAKEN IN UNDISTURBED SOIL IMMEDIATELY BELOW A CASED OR OPEN HOLE ELIMINATING SIDE FRICTION ON THE DRIVE PIPE.

SUBSURFACE EXPLORATION FOR FOUNDATION DESIGN AND BIDDERS INFORMATION

BORINGS WERE COMPLETED AT POINTS APPROXIMATELY AS INDICATED ON THIS DRAWING TO OBTAIN INFORMATION CONCERNING THE CHARACTER OF SUBSURFACE MATERIALS FOUND AT THE SITE. BECAUSE THE INVESTIGATED DEPTHS ARE LIMITED AND THE AREA OF THE BORINGS IS VERY SMALL IN RELATION TO THE ENTIRE SITE, THE WISCONSIN DEPARTMENT OF TRANSPORTATION DOES NOT WARRANT SIMILAR SUBSURFACE CONDITIONS BELOW, BETWEEN, OR BEYOND THESE BORINGS. VARIATIONS IN SOIL CONDITIONS SHOULD BE EXPECTED AND FLUCTUATIONS IN GROUNDWATER LEVELS MAY OCCUR.

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
STRUCTURES DESIGN SECTION

STRUCTURE B-70-424

DRAWN BY DB/EMK | PLANS CK'D. ABS

SUBSURFACE EXPLORATION

SHEET 4

475

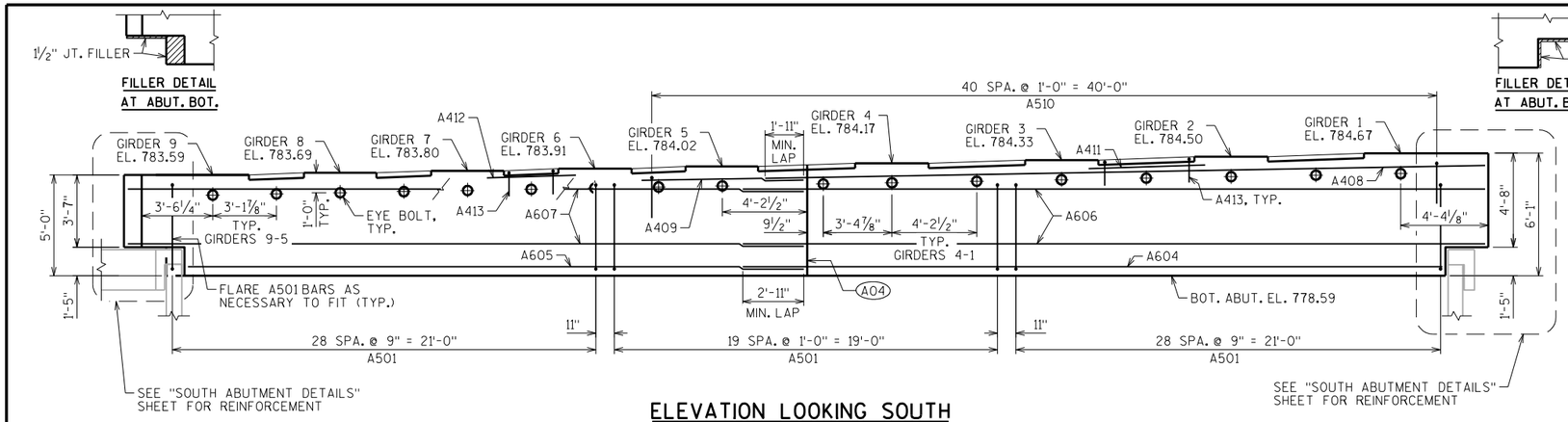
SCALE = 1.67

8

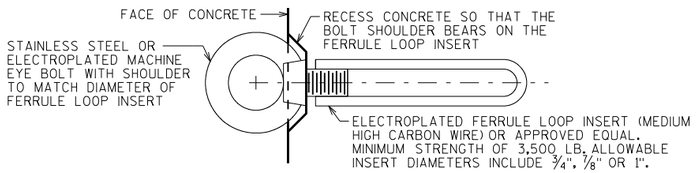
8

STATE PROJECT NUMBER

1517-75-72

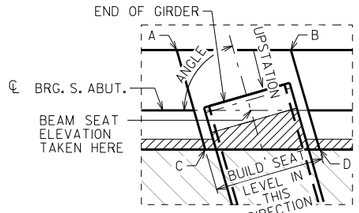


ELEVATION LOOKING SOUTH



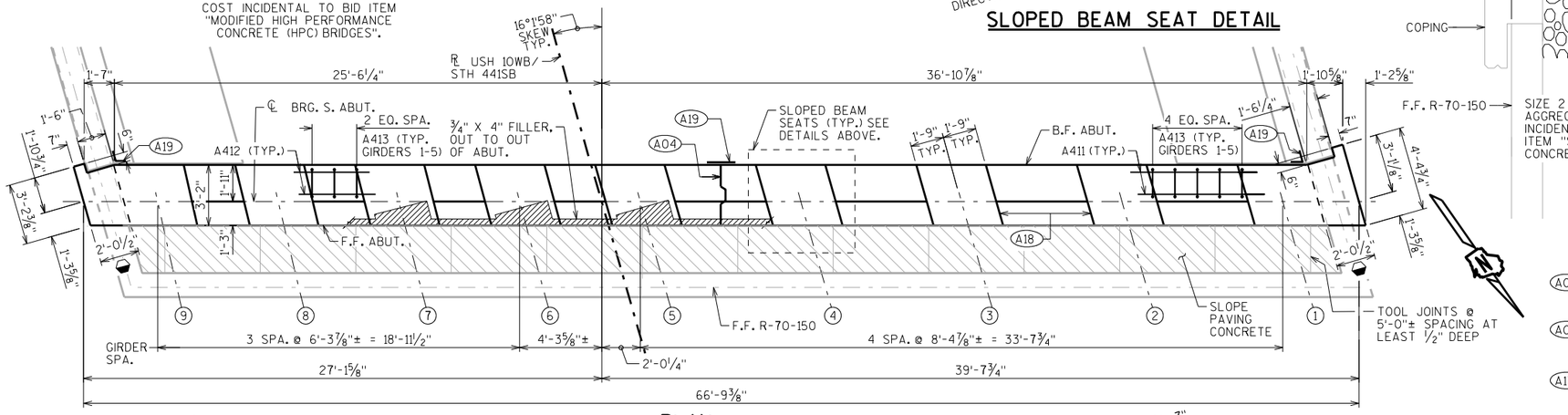
EYE BOLT DETAIL

COST INCIDENTAL TO BID ITEM "MODIFIED HIGH PERFORMANCE CONCRETE (HPC) BRIDGES".

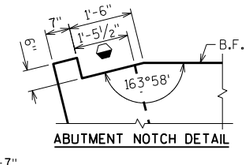


	A	B	C	D	ANGLE
GIRDER 1	-0.04	-0.03	0.01	0.03	73°58'2"
GIRDER 2	-0.04	-0.02	0.01	0.03	73°58'2"
GIRDER 3	-0.04	-0.02	0.01	0.03	73°58'2"
GIRDER 4	-0.03	-0.02	0.01	0.02	73°58'2"
GIRDER 5	-0.03	-0.02	0.01	0.02	73°58'2"
GIRDER 6	-0.03	-0.02	0.01	0.02	74°47'53"
GIRDER 7	-0.02	-0.02	0.01	0.02	75°38'7"
GIRDER 8	-0.02	-0.01	0.01	0.02	76°28'45"
GIRDER 9	-0.02	-0.01	0.01	0.01	77°19'43"

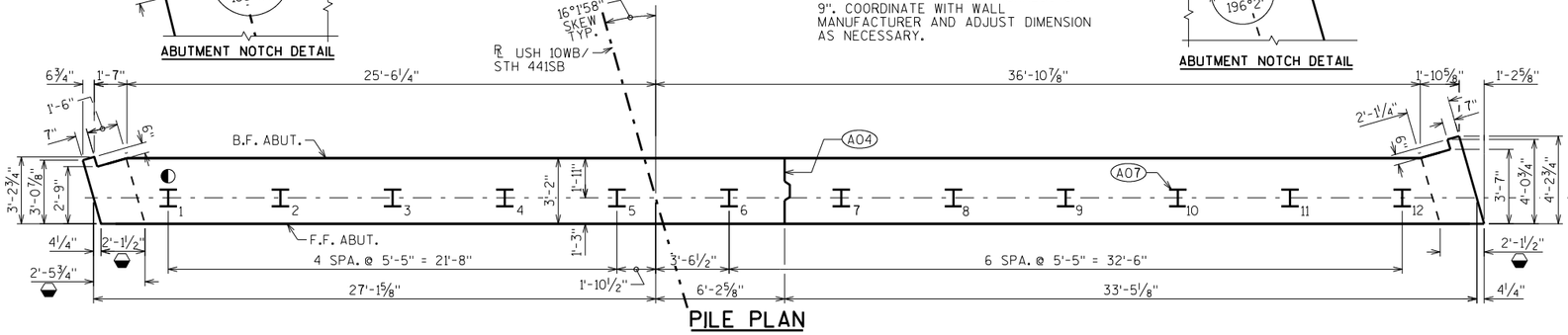
SLOPED BEAM SEAT DETAIL



PLAN

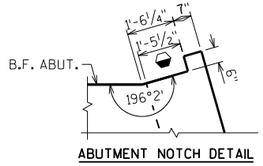


ABUTMENT NOTCH DETAIL



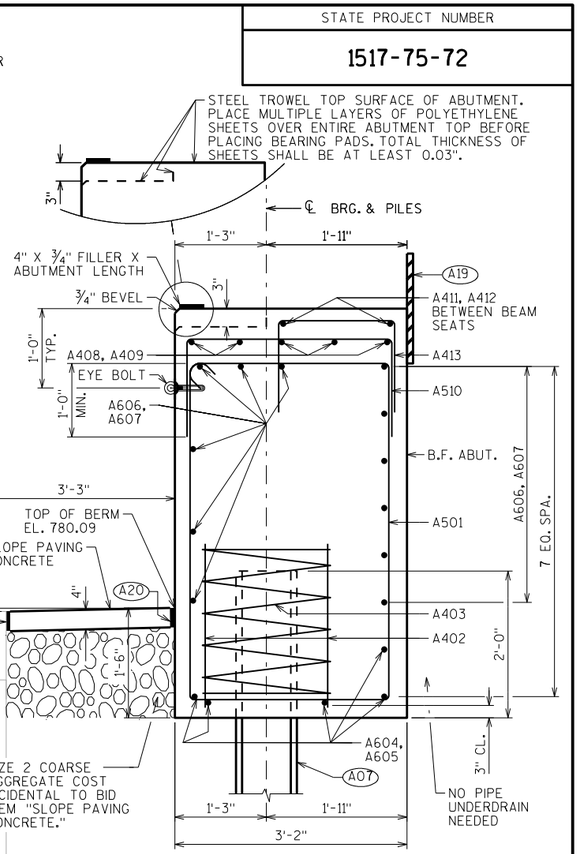
PILE PLAN

◒ PRE-BORING REQUIRED. MIN. 20'-0" DEPTH.



ABUTMENT NOTCH DETAIL

◒ DIMENSION BASED ON AN ESTIMATED RETAINING WALL PANEL THICKNESS OF 9". COORDINATE WITH WALL MANUFACTURER AND ADJUST DIMENSION AS NECESSARY.



SECTION THRU BODY

(A04) VERT. CONST. JOINT: KEYWAY FORMED BY A BEVELED 2 X 8, 3/4" "V" GROOVE @ THE FRONT FACE AND 18" RMW @ BACKFACE. FOR OPTIONAL DETAILS SEE "ALTERNATE CONSTRUCTION JOINT" SHEET.

(A07) SUPPORT ABUTMENT ON HP 12 X 53 STEEL PILING, ESTIMATED 55-0" LONG WITH A REQUIRED DRIVING RESISTANCE OF 220 TONS PER PILE. SEE "PIER DETIALS" SHEET FOR PILE SPLICE DETAILS.

(A17) 1/2" FILLER (INCLUDED IN WING LENGTH): SEAL ALL EXPOSED HORIZ. & VERT. SURFACES OF 1/2" FILLER WITH NON-STAINING GRAY NON-BITUMINOUS JOINT SEALER. (1" DEEP AND HOLD 1/8" BELOW SURFACE OF CONCRETE).

(A18) 3/4" CORK FILLER UP VERT. BEAM SEAT FACES THAT RUN PARALLEL WITH GIRDER.

(A19) 18" (RMW) RUBBERIZED MEMBRANE WATERPROOFING SEAL ALL HORIZ. & VERT. JOINTS AT BACKFACE.

(A20) 1" EXPANDED POLYSTYRENE: SEAL ALL EXPOSED HORIZ. & VERT. SURFACES OF EXPANDED POLYSTYRENE WITH NON-STAINING, GRAY NON-BITUMINOUS JOINT SEALER. (1" DEEP AND HOLD 1/8" BELOW SURFACE OF CONCRETE).

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
STRUCTURES DESIGN SECTION

STRUCTURE B-70-424

DRAWN BY EMK | PLANS CK'D. ABS

SOUTH ABUTMENT

SHEET 5

476

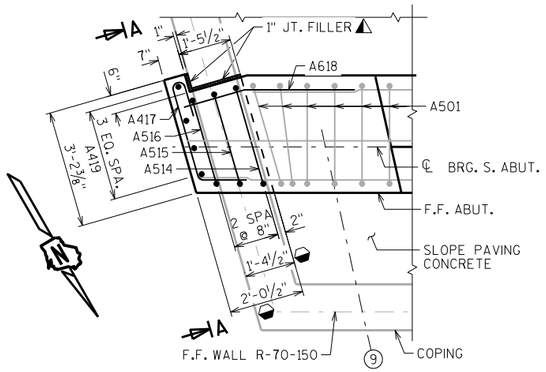
SCALE = 3.50

8

8

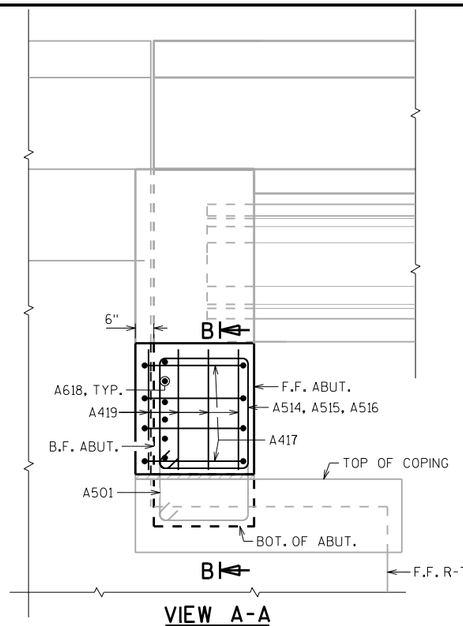
STATE PROJECT NUMBER

1517-75-72

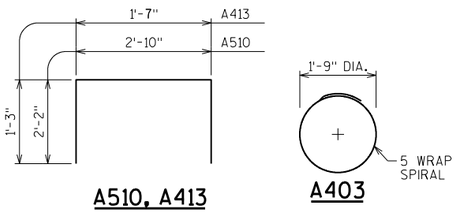


PLAN VIEW OF ABUT. CORNER

SHOWING SOUTH EAST END OF SOUTH ABUTMENT

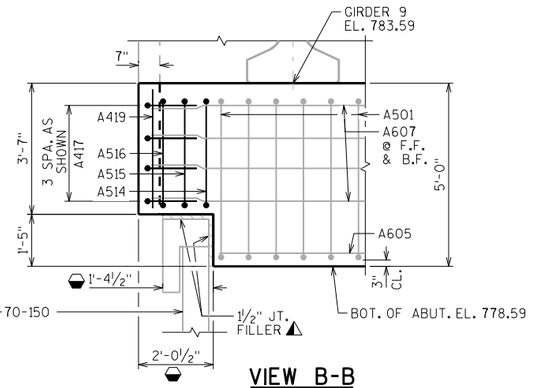


VIEW A-A
END OF ABUT. DETAILS



A510, A413

A403



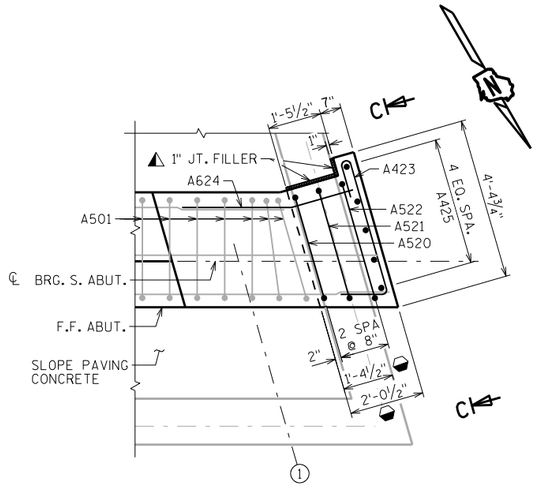
VIEW B-B
END OF ABUT. DETAILS

SHOWING F.F. REINFORCEMENT

BILL OF BARS

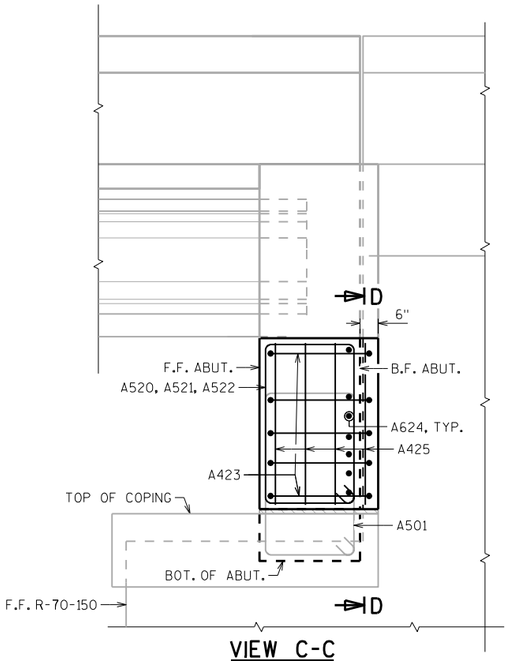
NOTE: THE FIRST OR FIRST TWO DIGITS OF THE BAR MARK SIGNIFIES THE BAR SIZE

BAR MARK	COAT	NO. REQ'D.	LENGTH	BENT	BAR SERIES	LOCATION
A501		78	15'-0"	X		BODY - STIRRUPS
A402		24	2'-3"			PILES - VERT. - 2 PER PILE
A403		12	28'-0"	X		PILES - SPIRAL - 1 PER PILE
A604		5	34'-7"			BODY - HORIZ. (WEST AT BOT.)
A605		5	30'-7"			BODY - HORIZ. (EAST AT BOT.)
A606		12	38'-0"			BODY - HORIZ. (WEST ABOVE COPING)
A607		12	31'-4"			BODY - HORIZ. (EAST ABOVE COPING)
A408		5	35'-9"			BODY - TOP - HORIZ. UNDER BEAM SEATS 1-4
A409		5	8'-9"			BODY - TOP - HORIZ. UNDER BEAM SEAT 5
A510		41	6'-11"	X		BODY - TOP - VERT. UNDER BEAM SEATS 1-5
A411		8	6'-9"			BODY - TOP - HORIZ. BETWEEN BEAM SEATS 1-5
A412		8	4'-10"			BODY - TOP - HORIZ. BETWEEN BEAM SEATS 5-9
A413		32	3'-11"	X		BODY - TOP - VERT. BETWEEN BEAM SEATS
A514		1	12'-11"	X		BODY - EAST CORNER - STIRRUP
A515		1	12'-6"	X		BODY - EAST CORNER - STIRRUP
A516		1	12'-2"	X		BODY - EAST CORNER - STIRRUP
A417		4	5'-3"	X		BODY - EAST CORNER - HORIZ.
A618		6	4'-8"	X		BODY - EAST CORNER - HORIZ.
A419		4	3'-3"			BODY - EAST CORNER - VERT.
A520		1	15'-4"	X		BODY - WEST CORNER - STIRRUP
A521		1	15'-8"	X		BODY - WEST CORNER - STIRRUP
A522		1	16'-0"	X		BODY - WEST CORNER - STIRRUP
A423		5	6'-4"	X		BODY - WEST CORNER - HORIZ.
A624		7	4'-10"	X		BODY - WEST CORNER - HORIZ.
A425		5	4'-4"			BODY - WEST CORNER - VERT.

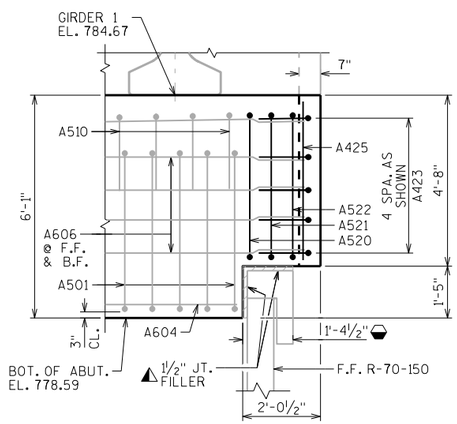


PLAN VIEW OF ABUT. CORNER

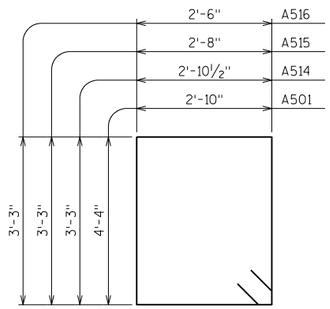
SHOWING SOUTH WEST END OF SOUTH ABUTMENT



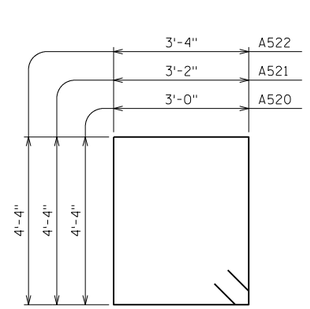
VIEW C-C
END OF ABUT. DETAILS



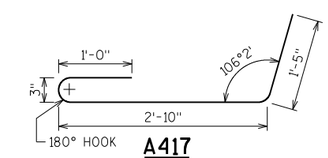
VIEW D-D
END OF ABUT. DETAILS



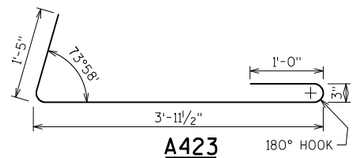
A501, A514, A515, A516



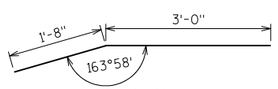
A520, A521, A522



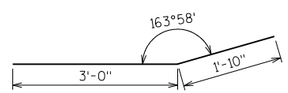
A417



A423



A618



A624

◒ DIMENSION BASED ON AN ESTIMATED RETAINING WALL PANEL THICKNESS OF 9". COORDINATE WITH WALL MANUFACTURER AND ADJUST DIMENSION AS NECESSARY.

⚠ SEAL ALL EXPOSED HORIZONTAL AND VERTICAL SURFACES OF FILLER WITH NON-STAINING GRAY, NON-BITUMINOUS JOINT SEALER. (1" DEEP AND HOLD ⅛" BELOW SURFACE OF CONCRETE).

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
STRUCTURES DESIGN SECTION

STRUCTURE B-70-424

DRAWN BY EMK | PLANS CK'D. ABS

SOUTH ABUTMENT DETAILS

SHEET 6

477

SCALE = 2.00

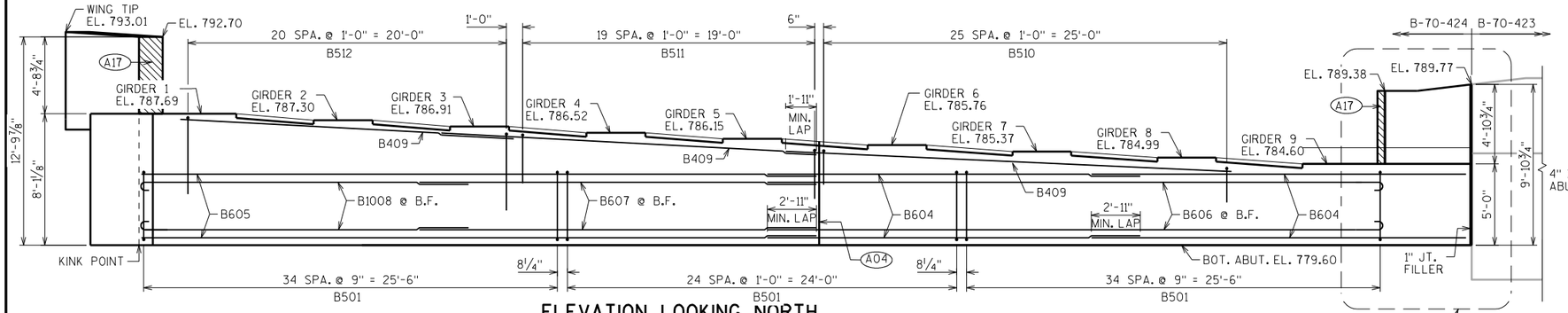
8

8

☆ASHLAR FORMLINER. SEE "AESTHETICS" SHEETS.

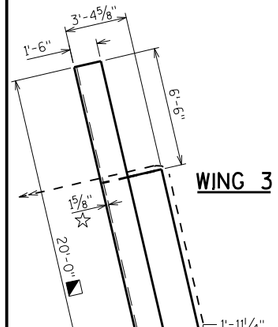
STATE PROJECT NUMBER

1517-75-72

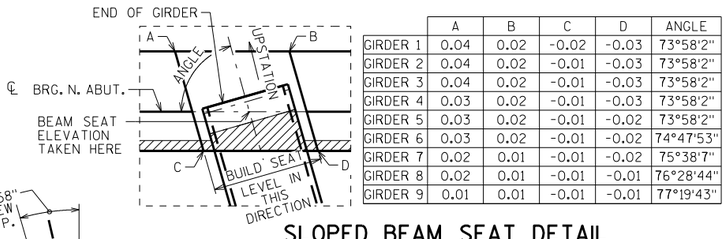


ELEVATION LOOKING NORTH

SEE "NORTH ABUTMENT DETAILS" SHEET FOR REINFORCEMENT

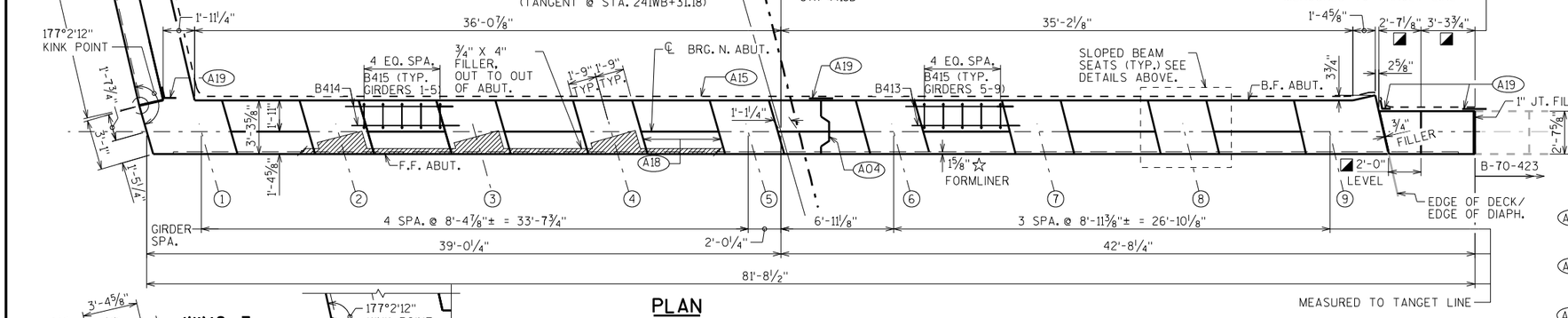


WING 3

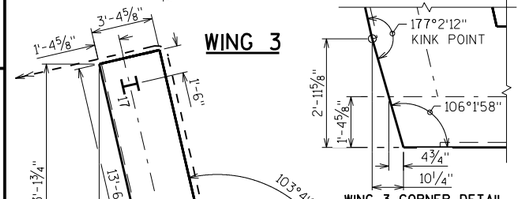


	A	B	C	D	ANGLE
GIRDER 1	0.04	0.02	-0.02	-0.03	73°58'2"
GIRDER 2	0.04	0.02	-0.01	-0.03	73°58'2"
GIRDER 3	0.04	0.02	-0.01	-0.03	73°58'2"
GIRDER 4	0.03	0.02	-0.01	-0.03	73°58'2"
GIRDER 5	0.03	0.02	-0.01	-0.02	73°58'2"
GIRDER 6	0.03	0.02	-0.01	-0.02	74°47'53"
GIRDER 7	0.02	0.01	-0.01	-0.02	75°38'7"
GIRDER 8	0.02	0.01	-0.01	-0.01	76°28'44"
GIRDER 9	0.01	0.01	-0.01	-0.01	77°19'43"

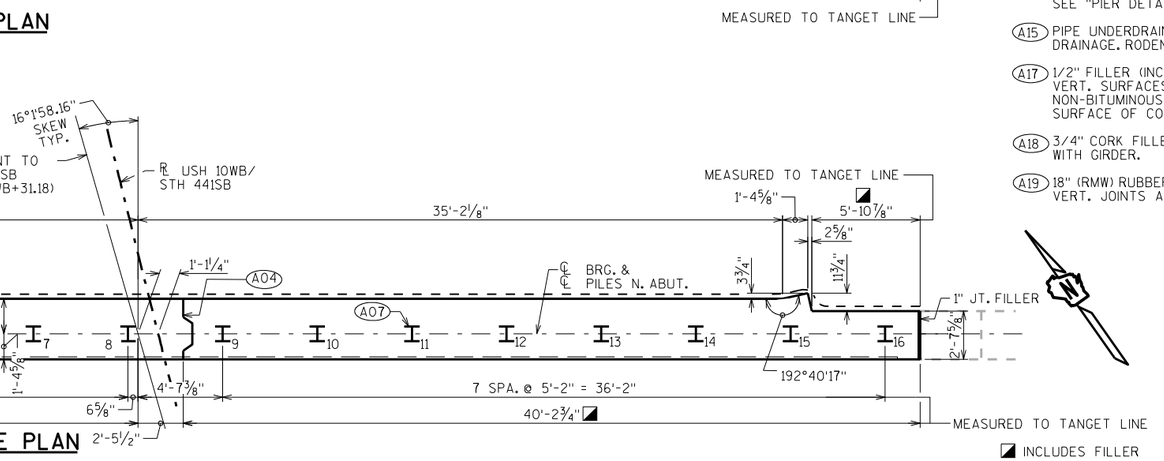
SLOPED BEAM SEAT DETAIL



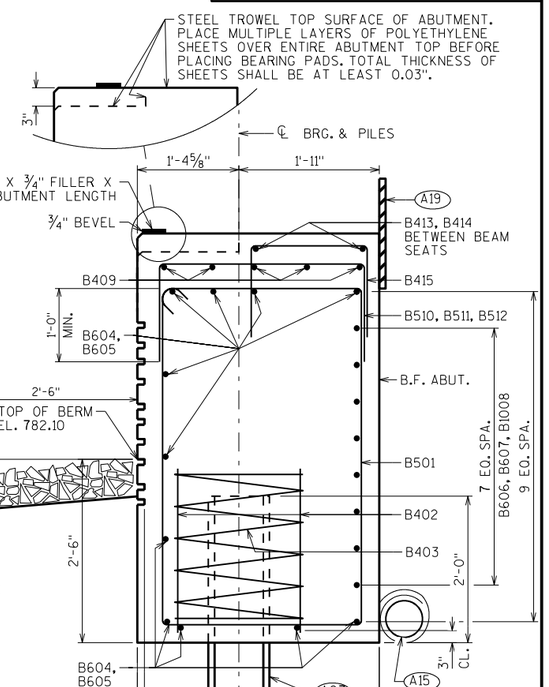
PLAN



WING 3 CORNER DETAIL



PILE PLAN



SECTION THRU BODY

(A04) VERT. CONST. JOINT: KEYWAY FORMED BY A BEVELED 2 X 8. 3/4" "V" GROOVE @ THE FRONT FACE AND 18" RMW @ BACKFACE. FOR OPTIONAL DETAILS SEE "ALTERNATE CONSTRUCTION JOINT" SHEET.

(A07) SUPPORT ABUTMENT ON HP 12 X 53 STEEL PILING, ESTIMATED 45-0" LONG WITH A REQUIRED DRIVING RESISTANCE OF 220 TONS PER PILE. SEE "PIER DETAILS" SHEET FOR PILE SPLICE DETAILS.

(A15) PIPE UNDERDRAIN WRAPPED (6-INCH). SLOPE 0.5% MIN. TO SUITABLE DRAINAGE. RODENT SHIELD REQUIRED. SEE SHEET 3 FOR DETAILS.

(A17) 1/2" FILLER (INCLUDED IN WING LENGTH): SEAL ALL EXPOSED HORIZ. & VERT. SURFACES OF 1/2" FILLER WITH NON-STAINING GRAY NON-BITUMINOUS JOINT SEALER. (1" DEEP AND HOLD 1/8" BELOW SURFACE OF CONCRETE).

(A18) 3/4" CORK FILLER UP VERT. BEAM SEAT FACES THAT RUN PARALLEL WITH GIRDER.

(A19) 18" (RMW) RUBBERIZED MEMBRANE WATERPROOFING SEAL ALL HORIZ. & VERT. JOINTS AT BACKFACE.

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
STRUCTURES DESIGN SECTION

STRUCTURE B-70-424

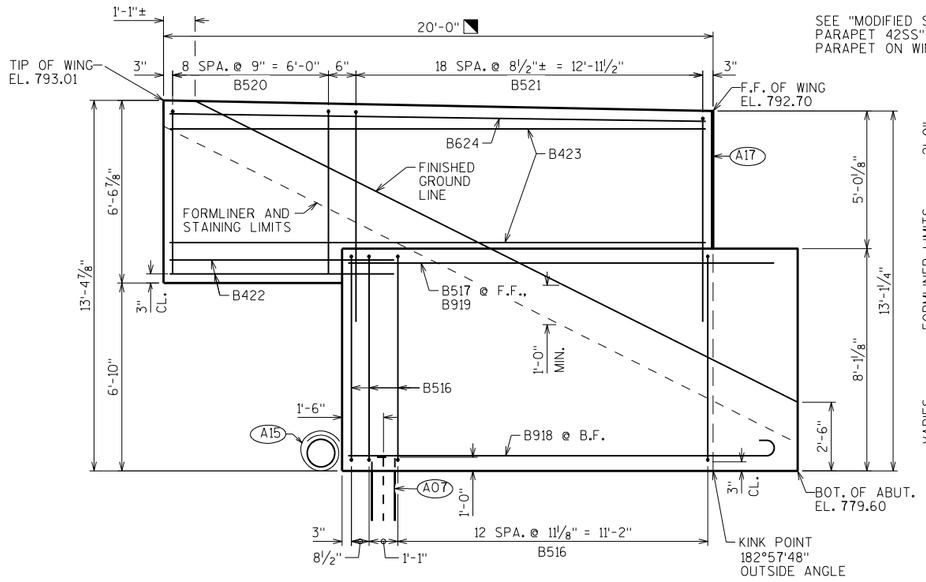
DRAWN BY EMK | PLANS CK'D. ABS

NORTH ABUTMENT

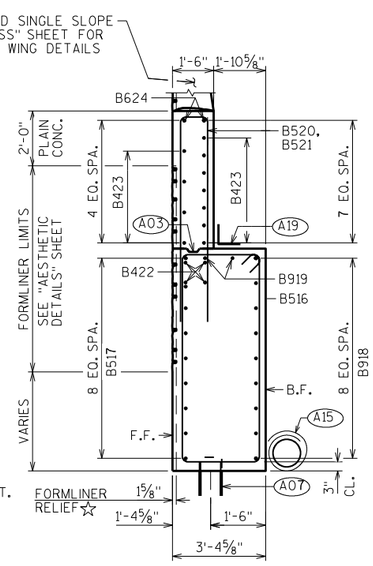
SHEET 7

478

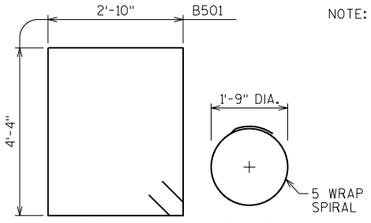
SCALE = 4.00

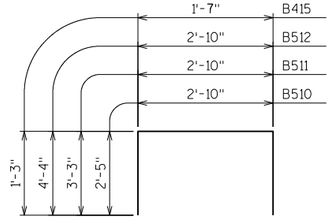


WING 3 ELEVATION

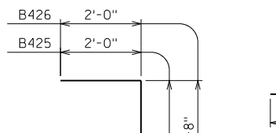


WING 3 SECTION





B510, B511, B512, B415



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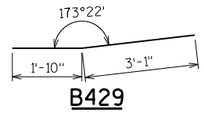

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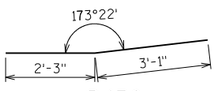

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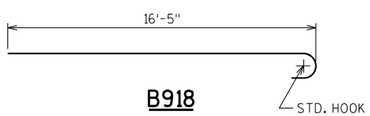
B516 B520, B521



B918

NOTE: THE FIRST OR FIRST TWO DIGITS OF THE BAR MARK SIGNIFIES THE BAR SIZE

BILL OF BARS

BAR MARK	COAT	NO. REQ'D.	LENGTH	BENT	BAR SERIES	LOCATION
B501		95	15'-0"	X		BODY - STIRRUPS
B402		32	2'-3"			PILES - VERT. - 2 PER PILE
B403		16	28'-0"	X		PILES - SPIRAL - 1 PER PILE
B604		22	23'-0"			BODY - HORIZ. (EAST)
B605		11	40'-10"			BODY - HORIZ. (WEST)
B606		8	38'-5"	X		BODY - HORIZ. (EAST @ B.F.)
B607		8	21'-5"			BODY - HORIZ. (WEST @ B.F.)
B1008		8	24'-5"	X		BODY - HORIZ. (WEST @ B.F. @ END)
B409		15	27'-0"			BODY - HORIZ. UNDER BEAM SEATS 1-7
B510		26	7'-5"	X		BODY - TOP - VERT. UNDER BEAM SEATS 6-8
B511		20	9'-1"	X		BODY - TOP - VERT. UNDER BEAM SEATS 3-5
B512		21	11'-3"	X		BODY - TOP - VERT. UNDER BEAM SEATS 1-3
B413		8	7'-5"			BODY - TOP - HORIZ. BETWEEN BEAM SEATS 5-9
B414		8	6'-9"			BODY - TOP - HORIZ. BETWEEN BEAM SEATS 1-5
B415		35	3'-11"	X		BODY - TOP - VERT. BETWEEN BEAM SEATS
B516	X	15	21'-10"	X		WING BOT. - VERT. STIRRUP
B517	X	9	15'-10"			WING - HORIZ. - F.F.
B918	X	9	17'-8"	X		WING - HORIZ. - B.F.
B919	X	2	16'-1"			WING - HORIZ.
B520	X	9	12'-11"	X		WING - VERTICAL
B521	X	19	14'-9"	X		WING - VERTICAL
B422	X	4	7'-8"			WING - HORIZ.
B423	X	11	19'-7"			WING - HORIZ. F.F. AND B.F.
B624	X	2	19'-7"			WING - HORIZ. TOP
B425	X	6	13'-2"	X		BODY - EAST CORNER - VERT.
B426	X	8	13'-5"	X	⬟	BODY - EAST CORNER - VERT.
B427	X	8	4'-10			BODY - EAST CORNER - HORIZ. @ F.F.
B428	X	8	5'-4"			BODY - EAST CORNER - HORIZ. @ B.F.
B429	X	1	4'-11"	X		BODY - EAST CORNER - HORIZ. @ F.F. - TOP
B430	X	1	5'-4"	X		BODY - EAST CORNER - HORIZ. @ B.F. - TOP
B531	X	6	7'-4"	X		BODY - EAST CORNER - HORIZ. @ B.F. - LOWER

⬟ LENGTH SHOWN FOR BAR IS AN AVERAGE LENGTH AND SHOULD ONLY BE USED FOR BAR WEIGHT CALCULATIONS. SEE BAR SERIES TABLE FOR ACTUAL LENGTHS.

BAR SERIES TABLE

BAR MARK	NO. REQ'D.	LENGTH
B426	2 SERIES OF 4	13'-3" TO 13'-7"

BUNDLE AND TAG EACH SERIES SEPARATELY.

A03 OPTIONAL CONST. JOINT: KEYWAY FORMED BY BEVELED 2 x 6. (18" RMW @ B.F. & 3/4" "V" GROOVE @ F.F. IF JOINT IS USED).

A07 SUPPORT ABUTMENT ON HP 12 x 53 STEEL PILING, ESTIMATED 45'-0" LONG WITH A REQUIRED DRIVING RESISTANCE OF 220 TONS PER PILE. SEE "PIER DETAILS" SHEET FOR PILE SPLICE DETAILS".

A15 PIPE UNDERDRAIN WRAPPED (6-INCH). SLOPE 0.5% MIN. TO SUITABLE DRAINAGE. RODENT SHIELD REQUIRED. SEE SHEET 3 FOR DETAILS.

A17 1/2" FILLER (INCLUDED IN WING LENGTH): SEAL ALL EXPOSED HORIZ. & VERT. SURFACES OF 1/2" FILLER WITH NON-STAINING GRAY NON-BITUMINOUS JOINT SEALER. (1" DEEP AND HOLD 1/8" BELOW SURFACE OF CONCRETE). EXTEND SEALER 3" BELOW GUTTER LINE AT INSIDE FACE.

A19 18" (RMW) RUBBERIZED MEMBRANE WATERPROOFING SEAL ALL HORIZ. & VERT. JOINTS AT BACKFACE.

☆ ASHLAR FORMLINER. SEE "AESTHETICS" SHEETS.

◥ INCLUDES FILLER

✱ ELEVATIONS GIVEN AT ℄ BRG. N. ABUT.

◭ SEAL ALL EXPOSED HORIZONTAL AND VERTICAL SURFACES OF FILLER WITH NON-STAINING GRAY, NON-BITUMINOUS JOINT SEALER. (1" DEEP AND HOLD 1/8" BELOW SURFACE OF CONCRETE).

VIEW C-C
END OF ABUT. DETAILS
LOOKING AT F.F.

PLAN VIEW OF ABUT. CORNER
SHOWING NORTH EAST END OF NORTH ABUTMENT

STATE PROJECT NUMBER
1517-75-72

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
STRUCTURES DESIGN SECTION

STRUCTURE B-70-424

DRAWN BY EMK | PLANS CK'D. ABS

NORTH ABUTMENT DETAILS

SHEET 8

479

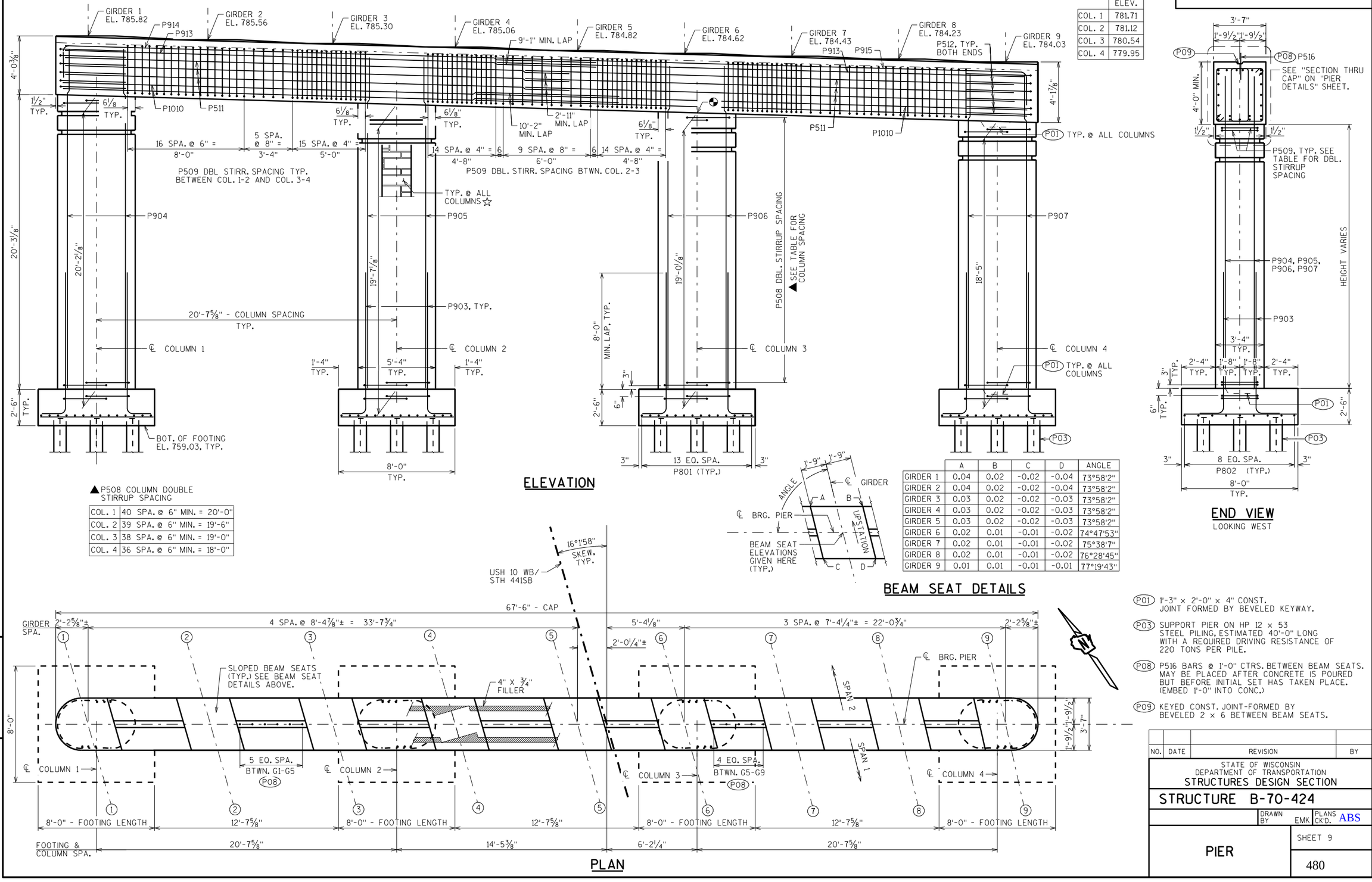
SCALE = 2.00

8

8

STATE PROJECT NUMBER

1517-75-72



ELEVATION GIVEN AT ℄ OF COLUMN, TYP.

	ELEV.
COL. 1	781.71
COL. 2	781.12
COL. 3	780.54
COL. 4	779.95

▲P508 COLUMN DOUBLE STIRRUP SPACING

COL. 1	40 SPA. @ 6" MIN. = 20'-0"
COL. 2	39 SPA. @ 6" MIN. = 19'-6"
COL. 3	38 SPA. @ 6" MIN. = 19'-0"
COL. 4	36 SPA. @ 6" MIN. = 18'-0"

ELEVATION

	A	B	C	D	ANGLE
GIRDER 1	0.04	0.02	-0.02	-0.04	73°58'2"
GIRDER 2	0.04	0.02	-0.02	-0.04	73°58'2"
GIRDER 3	0.03	0.02	-0.02	-0.03	73°58'2"
GIRDER 4	0.03	0.02	-0.02	-0.03	73°58'2"
GIRDER 5	0.03	0.02	-0.02	-0.03	73°58'2"
GIRDER 6	0.02	0.01	-0.01	-0.02	74°47'53"
GIRDER 7	0.02	0.01	-0.01	-0.02	75°38'7"
GIRDER 8	0.02	0.01	-0.01	-0.02	76°28'45"
GIRDER 9	0.01	0.01	-0.01	-0.01	77°19'43"

BEAM SEAT DETAILS

END VIEW

LOOKING WEST

PLAN

P01 1'-3" × 2'-0" × 4" CONST. JOINT FORMED BY BEVELED KEYWAY.

P03 SUPPORT PIER ON HP 12 × 53 STEEL PILING, ESTIMATED 40'-0" LONG WITH A REQUIRED DRIVING RESISTANCE OF 220 TONS PER PILE.

P08 P516 BARS @ 1'-0" CTRS. BETWEEN BEAM SEATS. MAY BE PLACED AFTER CONCRETE IS POURED BUT BEFORE INITIAL SET HAS TAKEN PLACE. (EMBED 1'-0" INTO CONC.)

P09 KEYED CONST. JOINT-FORMED BY BEVELED 2 × 6 BETWEEN BEAM SEATS.

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
STRUCTURES DESIGN SECTION

STRUCTURE B-70-424

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PIER

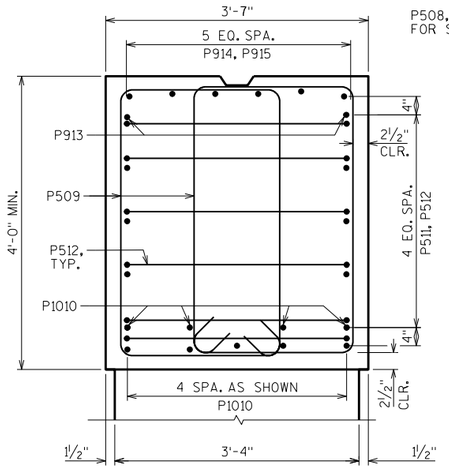
SHEET 9

480

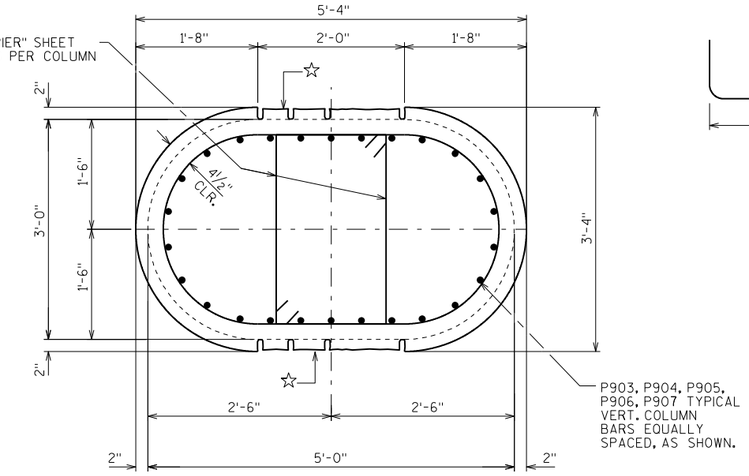
SCALE = 3.00

STATE PROJECT NUMBER

1517-75-72

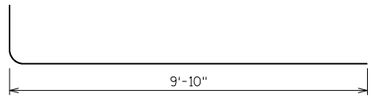


SECTION THRU CAP

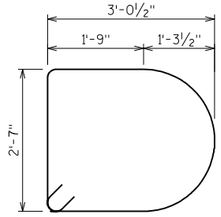


SECTION THRU COLUMN

(TYP. COLUMN SECTION)



P903

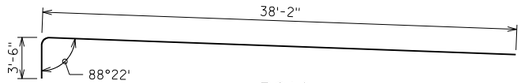


P508

BILL OF BARS

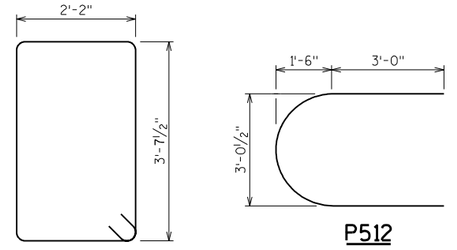
NOTE: THE FIRST OR FIRST TWO DIGITS OF THE BAR MARK SIGNIFIES THE BAR SIZE

BAR MARK	COAT	NO. REQ'D.	LENGTH	BENT	BAR SERIES	LOCATION
P801		56	7'-6"			FOOTING - HORIZ.
P802		36	7'-6"			FOOTING - HORIZ.
P903	X	104	11'-2"	X		FOOTING/COLUMN - VERT.
P904	X	26	23'-2"			COLUMN 1 - VERT.
P905	X	26	23'-0"			COLUMN 2 - VERT.
P906	X	26	22'-6"			COLUMN 3 - VERT.
P907	X	26	21'-9"			COLUMN 4 - VERT.
P508	X	322	10'-11"	X		COLUMN & FOOTING STIRRUPS
P509	X	228	12'-3"	X		CAP STIRRUPS BTWN. COLUMNS
P1010	X	18	38'-8"			CAP - BOT. - LONGIT.
P511	X	12	35'-1"			CAP - MIDDLE - LONGIT.
P512	X	14	10'-11"	X		CAP - END U-BAR
P913	X	4	36'-7"			CAP - TOP - LONGIT.
P914	X	6	41'-5"	X		CAP - TOP - LONGIT.
P915	X	6	41'-5"	X		CAP - TOP - LONGIT.
P516	X	44	2'-0"			CAP - TOP DOWEL



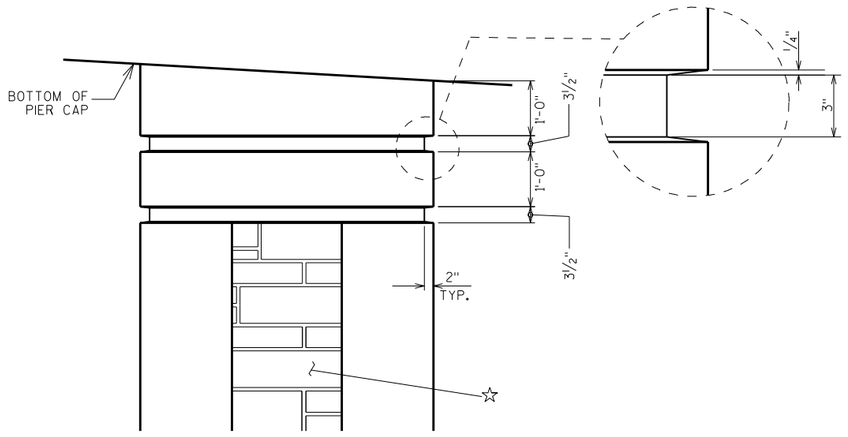
P914

P915

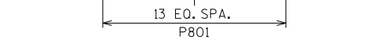


P509

P512

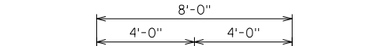


PART. ELEV. TOP OF PIER COLUMN



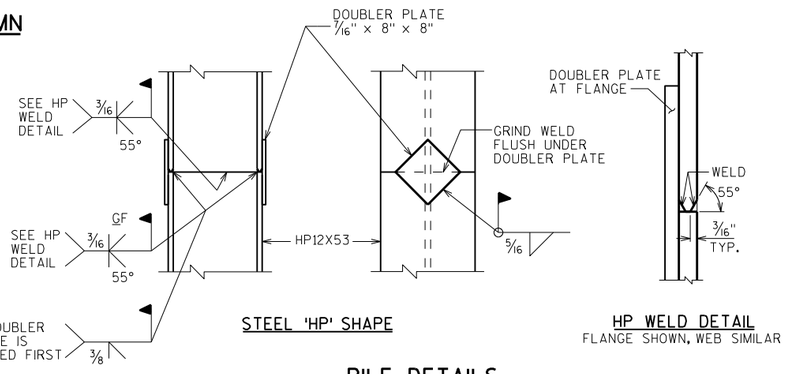
FOOTING PLAN

COLUMNS 2&3



FOOTING PLAN

COLUMNS 1&4



STEEL 'HP' SHAPE

HP WELD DETAIL

FLANGE SHOWN, WEB SIMILAR

PILE DETAILS

☆ ASHLAR FORMLINER. SEE "PIER" SHEET AND "AESTHETICS" SHEETS.

(P03) SUPPORT PIER ON HP 12 x 53 STEEL PILING, ESTIMATED 40'-0" LONG WITH A REQUIRED DRIVING RESISTANCE OF 220 TONS PER PILE.

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
STRUCTURES DESIGN SECTION

STRUCTURE B-70-424

DRAWN BY EMK | PLANS CK'D. ABS

PIER DETAILS

SHEET 10

481

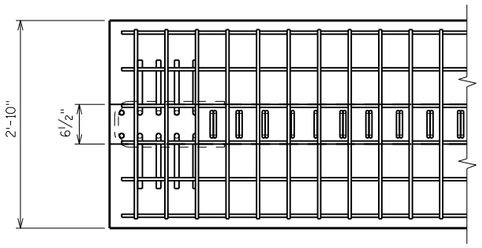
SCALE = 1.00

8

8

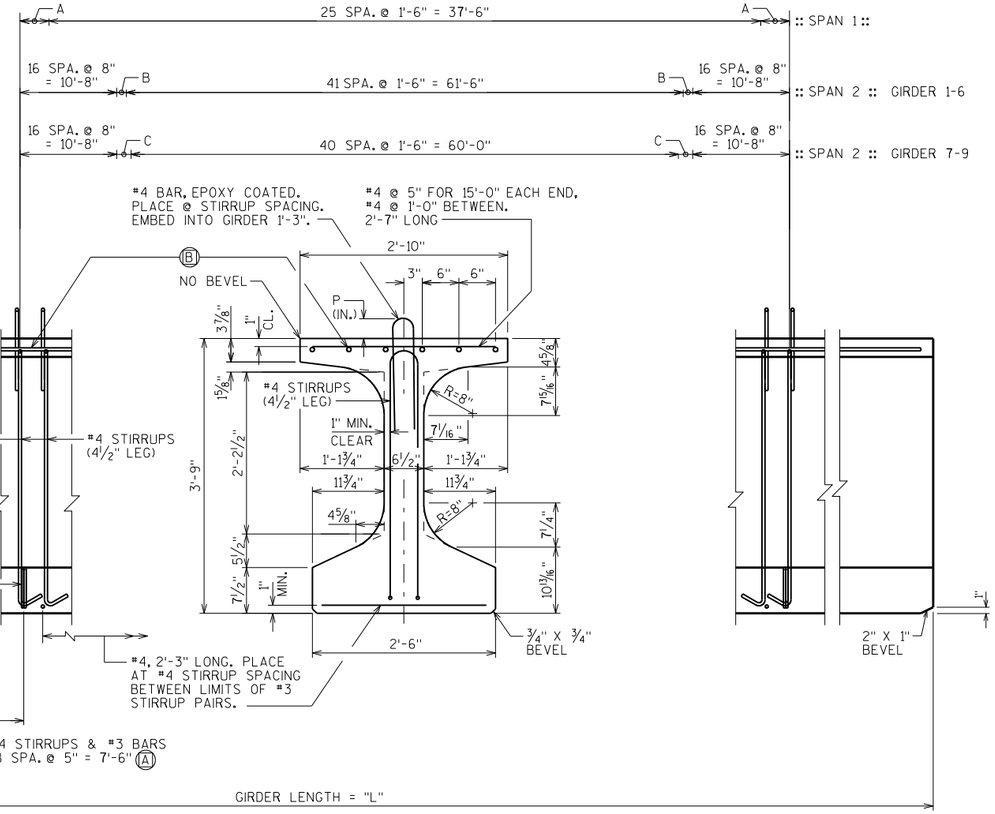
STATE PROJECT NUMBER

1517-75-72

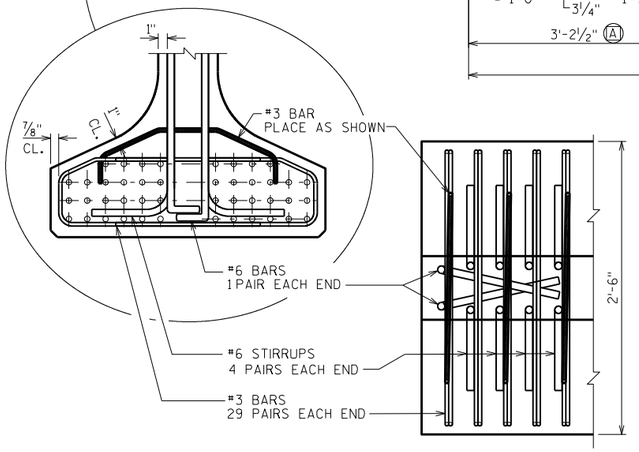


TOP FLANGE

	SPAN 1	SPAN 2	
GIRDER	A	B	C
1-5	1'-5¾"	1'-0¾"	——
6	1'-4"±	10¼"	——
7	1'-2½"	——	1'-4¾"
8	1'-1"	——	1'-2½"
9	1'-1½"±	——	1'-0¼"±



SECTION A-A



BOTTOM FLANGE

SIDE VIEW & TYPICAL SECTION IN SPAN

Ⓐ DETAIL TYP. AT EACH END

Ⓑ 6 #5 BARS, FULL LENGTH, MIN. LAP = 2'-5" :: SPAN 1 ::
6 #4 BARS, FULL LENGTH, MIN. LAP = 1'-11" :: SPAN 2 ::

NOTES

TOP OF GIRDER TO BE ROUGH FLOATED AND BROOMED TRANSVERSELY, EXCEPT THE OUTSIDE 8" OF GIRDER, WHICH SHALL RECEIVE A SMOOTH FINISH. AN APPROVED CONCRETE SEALER SHALL BE APPLIED TO ALL SMOOTH SURFACES INCLUDING THE OUTSIDE 8" OF THE TOP FLANGE.

DO NOT APPLY CONCRETE SEALER OR EPOXY TO SURFACES RECEIVING APPLICATION OF CONCRETE STAINING.

THE GIRDERS SHALL BE PROVIDED WITH A SUITABLE LIFTING DEVICE FOR HANDLING AND ERECTING THE GIRDERS. SEE SECT. 503.3.3 OF STANDARD SPECIFICATIONS FOR GUIDANCE.

STRANDS SHALL BE FLUSH WITH END OF GIRDER. FOR GIRDER ENDS EMBEDDED COMPLETELY IN CONCRETE, END OF STRANDS SHALL BE COATED WITH NON-BITUMINOUS JOINT SEALER. FOR GIRDER ENDS THAT ARE FINALLY EXPOSED, COAT THE GIRDER ENDS, EXPOSED STRAND ENDS AND ALL NON-BONDING SURFACES WITHIN 2 FEET OF THE GIRDER ENDS WITH A NON-PIGMENTED EPOXY CONFORMING TO AASHTO M-235 TYPE III, GRADE 2, CLASS B OR C. THE EPOXY SHALL BE APPLIED AT LEAST 3 DAYS AFTER MOIST CURING HAS CEASED AND PRIOR TO THE APPLICATION OF THE SEALER.

ALL GIRDERS SHALL BE CAST FULL LENGTH AS SHOWN.

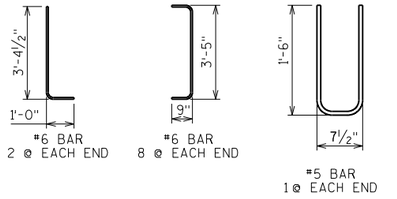
SPACING SHOWN FOR #4 STIRRUPS IS FOR GRADE 60 REINFORCEMENT.

AN ALTERNATE EQUIVALENT OF WELDED WIRE FABRIC (WWF) ASTM A497 MAY BE SUBSTITUTED FOR THE STIRRUP REINFORCEMENT SHOWN, UPON APPROVAL OF THE STRUCTURES DEVELOPMENT SECTION.

PRESTRESSING STRANDS SHALL BE (0.6" DIA.)-7 WIRE LOW-RELAXATION STRANDS WITH AN ULTIMATE STRENGTH OF 270,000 PSI.

FOR DIAPHRAGM INSERT & CONNECTION DETAILS SEE "STEEL DIAPHRAGM" SHEET.

FOR DIAPHRAGM SPACING SEE TABLE AND DIAGRAM "45W" PRESTRESSED GIRDER DETAILS 2" SHEET.



✳ MINIMUM CYLINDER STRENGTH OF CONCRETE @ TIME OF TRANSFER OF PRESTRESS FORCE.

GIRDER DATA

SPAN	GIRDER	GIRDER LENGTH "L"	DEAD LOAD DEFL. (IN.) 1/10	2/10	3/10	4/10	5/10	6/10	7/10	8/10	9/10	CONC. STRGTH. f'c (p.s.i.)	"P" 1ST 1/3 OF GIRDER	"P" MID 1/3 OF GIRDER	"P" END 1/3 OF GIRDER	DIA. OF STRAND (IN.)	DRAPED PATTERN TOTAL NO. OF STRANDS	f'ci (P.S.I.) ✳	(IN.) "A"	"B" MIN.	"B" MAX.	"C"	UNDRAPED PATTERN TOTAL NO. OF STRANDS	f'ci (P.S.I.) ✳
1	1	69.375	0.1	0.2	0.3	0.4	0.4	0.4	0.3	0.2	0.1	8,000	7	7	7	0.6							16	6.8
1	2-5	69.375	0.1	0.3	0.4	0.4	0.4	0.4	0.4	0.3	0.1	8,000	7	7	7	0.6							16	6.8
1	6	69.096	0.1	0.3	0.4	0.4	0.4	0.4	0.4	0.3	0.1	8,000	7	7	7	0.6							16	6.8
1	7	68.832	0.1	0.3	0.4	0.4	0.4	0.4	0.4	0.3	0.1	8,000	7	7	7	0.6							16	6.8
1	8	68.582	0.1	0.3	0.4	0.4	0.4	0.4	0.4	0.3	0.1	8,000	7	7	7	0.6							16	6.8
1	9	68.347	0.1	0.2	0.3	0.3	0.4	0.3	0.3	0.2	0.1	8,000	7	7	7	0.6							16	6.8
2	1	106.375	0.8	1.5	2.0	2.4	2.5	2.4	2.0	1.5	0.8	8,000	7	7	8	0.6	38	6.8	40	13.75	16.75	5		
2	2-5	106.375	0.8	1.5	2.1	2.5	2.6	2.5	2.1	1.6	0.8	8,000	7	7	8	0.6	38	6.8	40	13.75	16.75	5		
2	6	105.948	0.8	1.6	2.1	2.5	2.6	2.5	2.2	1.6	0.8	8,000	7	7	8	0.6	38	6.8	40	13.75	16.75	5		
2	7	105.542	0.8	1.6	2.1	2.5	2.6	2.5	2.2	1.6	0.8	8,000	7	7	8	0.6	38	6.8	40	13.75	16.75	5		
2	8	105.156	0.8	1.6	2.1	2.5	2.6	2.5	2.2	1.6	0.8	8,000	7	7	8	0.6	38	6.8	40	13.75	16.75	5		
2	9	104.802	0.7	1.4	1.9	2.2	2.4	2.2	1.9	1.4	0.7	8,000	7	7	8	0.6	38	6.8	40	13.75	16.75	5		

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
STRUCTURES DESIGN SECTION

STRUCTURE B-70-424

DRAWN BY EMK | PLANS CK'D. ABS

45W" PRESTRESSED GIRDER DETAILS 1

SHEET 11

482

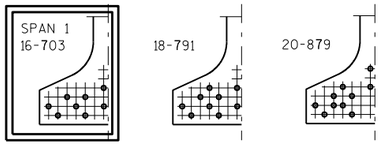
SCALE = 1.00

8

8

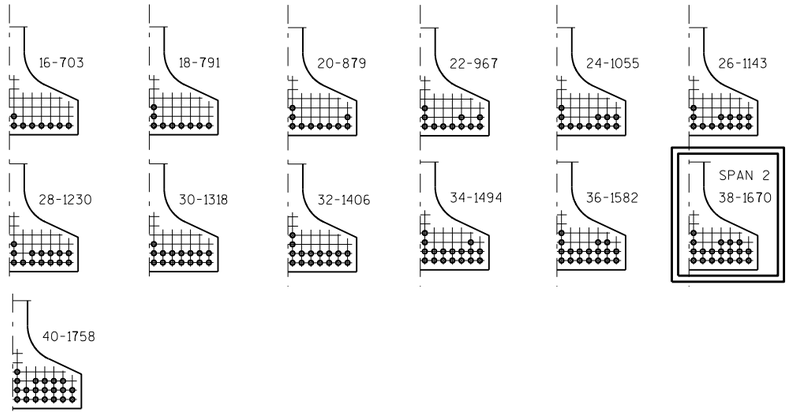
STATE PROJECT NUMBER

1517-75-72



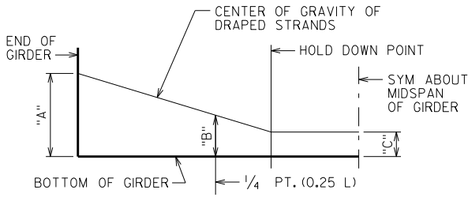
STANDARD ARRANGEMENTS TO RAISE CENTER OF GRAVITY TO AVOID DRAPING OF STRANDS

0.6"ϕ STRANDS



ARRANGEMENT AT ℄ SPAN - FOR GIRDERS WITH DRAPED STRANDS

0.6"ϕ STRANDS



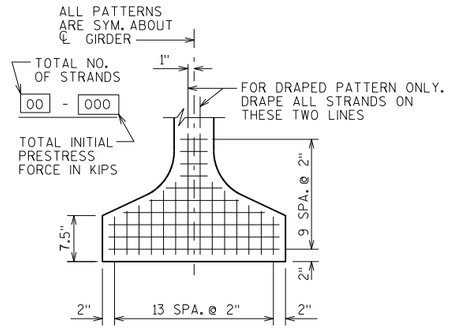
DRAPED STRAND PROFILE

*THE THEORETICAL INITIAL CAMBER VALUE AT THE TIME OF STRAND RELEASE AT MIDSPAN MULTIPLIED BY A FACTOR OF 1.4 TO ACCOUNT FOR CAMBER GROWTH FROM THE TIME OF STRAND RELEASE TO JOBSITE PLACEMENT.

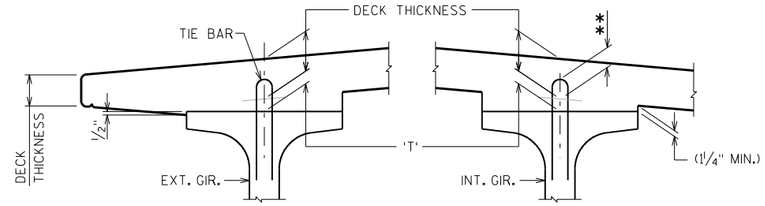
SPAN	CAMBER (IN.) *
1	1.0
2	4.3

THESE VALUES ARE NOT TO BE USED IN DETERMINING 'T', USE ACTUAL GIRDER SHOTS.

THESE VALUES ARE FOR INFORMATIONAL PURPOSES ONLY.



TYP. STRAND PATTERN



DECK HAUNCH DETAIL

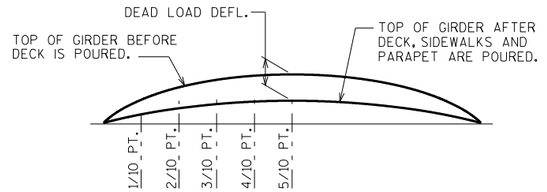
IF 1¼" MINIMUM HAUNCH HEIGHT AT EDGE OF GIRDER CANNOT BE MAINTAINED, THE GRADE LINE MAY BE REVISED BY THE ENGINEER AT THE OPTION OF THE CONTRACTOR, THE PLAN DECK THICKNESS SHALL BE HELD. NOTIFY THE STRUCTURES SECTION IF THE GRADE LINE IS RAISED FROM THE PLAN PROFILE BY MORE THAN ½" OR,

** IF 3" MINIMUM DECK EMBEDMENT OF TIE BAR CANNOT BE OBTAINED.

TO DETERMINE 'T', ELEV. OF TOP OF GIR'S. AT ℄ OF SUBSTRUCTURE UNITS & AT 1/10 POINTS OF EACH SPAN SHALL BE TAKEN. THEN FOLLOW THIS PROCESS:

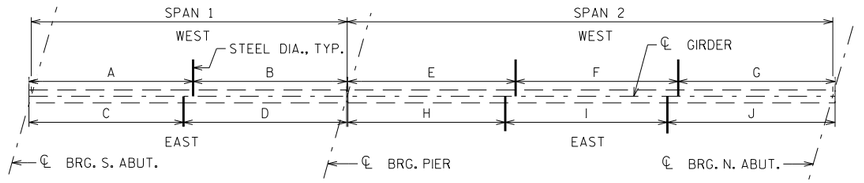
TOP OF DECK ELEV. AT FINAL GRADE
- TOP OF GIRDER ELEVATION
+ DEAD LOAD DEFLECTION
- DECK THICKNESS
= HAUNCH HEIGHT 'T'

NOTE: AN AVERAGE HAUNCH ('T') OF 3.5" WAS USED IN THE QUANTITY "MODIFIED HIGH PERFORMANCE CONCRETE (HPC) BRIDGES".



DEAD LOAD DEFLECTION DIAGRAM

	SPAN 1				SPAN 2					
	WEST		EAST		WEST			EAST		
	A	B	C	D	E	F	G	H	I	J
GIR. 1	-	-	33'-6⅜"	35'-10⅛"	-	-	-	34'-3⅝"	35'-5½"	36'-7⅜"
GIR. 2	35'-10¼"	33'-6¼"	33'-6⅜"	35'-10⅛"	36'-7⅜"	35'-5½"	34'-3⅝"	34'-3⅝"	35'-5½"	36'-7⅜"
GIR. 3	35'-10¼"	33'-6¼"	33'-6⅜"	35'-10⅛"	36'-7⅜"	35'-5½"	34'-3⅝"	34'-3⅝"	35'-5½"	36'-7⅜"
GIR. 4	35'-10¼"	33'-6¼"	33'-6⅜"	35'-10⅛"	36'-7⅜"	35'-5½"	34'-3⅝"	34'-3⅝"	35'-5½"	36'-7⅜"
GIR. 5	35'-10¼"	33'-6¼"	33'-8⅞"	35'-7⅝"	36'-7⅜"	35'-5½"	34'-3⅝"	34'-4½"	35'-4⅝"	36'-7⅜"
GIR. 6	35'-5⅞"	33'-7¼"	33'-7¼"	35'-5⅞"	36'-4⅞"	35'-4⅝"	34'-1⅞"	34'-2¾"	35'-2⅞"	36'-5¾"
GIR. 7	35'-4⅜"	33'-5⅝"	33'-5⅝"	35'-4⅜"	36'-3¼"	35'-3"	34'-0¼"	34'-1⅛"	35'-1¼"	36'-4⅛"
GIR. 8	35'-2⅞"	33'-4⅛"	33'-4⅛"	35'-2⅞"	36'-1¾"	35'-1½"	33'-10⅝"	33'-11⅝"	34'-11¾"	36'-2½"
GIR. 9	35'-1⅜"	33'-2¾"	-	-	36'-0¼"	35'-0⅛"	33'-9¼"	-	-	-



STEEL DIAPHRAGM SPCAING

STEEL DIAPHRAGMS, MEASUREMENTS ALONG ℄ OF GIRDER, FROM ENDS OF GIRDER.

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
STRUCTURES DESIGN SECTION

STRUCTURE B-70-424

DRAWN BY EMK | PLANS CK'D. ABS

45W" PRESTRESSED GIRDER DETAILS 2

SHEET 12

483

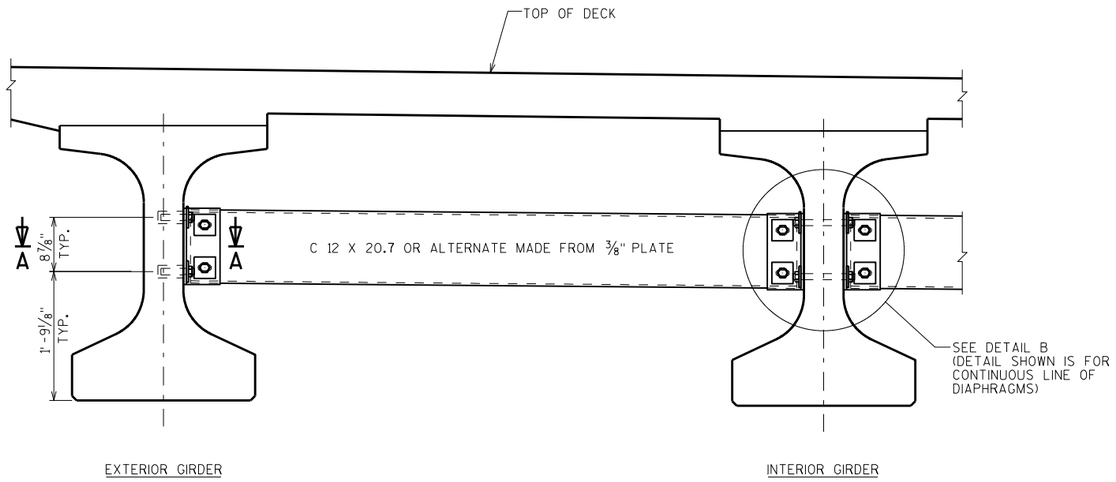
SCALE = 1.00

8

8

STATE PROJECT NUMBER

1517-75-72



PART TRANSVERSE SECTION AT DIAPHRAGM

NOTES

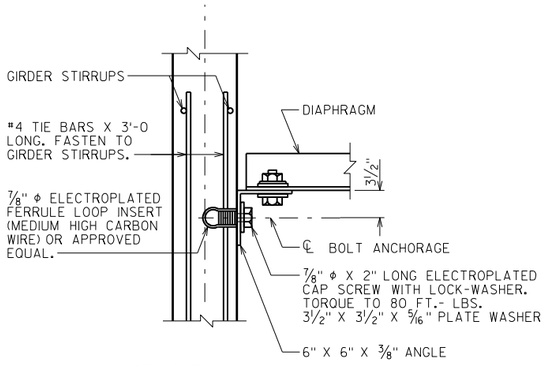
ALL DIAPHRAGM MATERIAL NOT EMBEDDED IN THE CONCRETE GIRDER SHALL BE PAID FOR AT THE UNIT PRICE BID FOR "STEEL DIAPHRAGMS B-70-424", EACH.

EACH DIAPHRAGM BETWEEN GIRDERS SHALL CONSTITUTE ONE UNIT.

ALL DIAPHRAGM STRUCTURAL STEEL SHALL BE ASTM A709 GRADE 36.

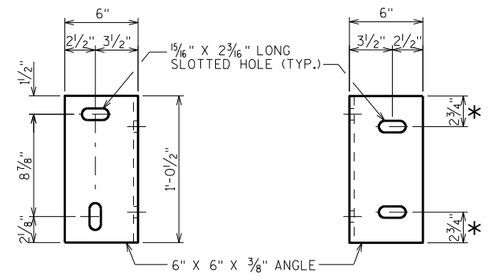
ALL DIAPHRAGM MATERIAL INCLUDING BOLTS, NUTS AND WASHERS SHALL BE GALVANIZED AFTER FABRICATION.

STEEL DIAPHRAGM TO CONCRETE WEB CONNECTION SHALL BE SNUG-TIGHT PLUS ¼ TURN, UNLESS NOTED OTHERWISE. HIGH STRENGTH BOLTS FOR WEB CONNECTION SHALL MEET THE REQUIREMENTS FOR ASTM A325 OR ASTM A449.



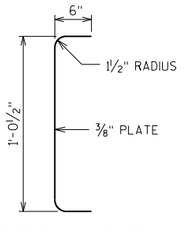
SECTION A-A

(FOR EXTERIOR ATTACHMENT)

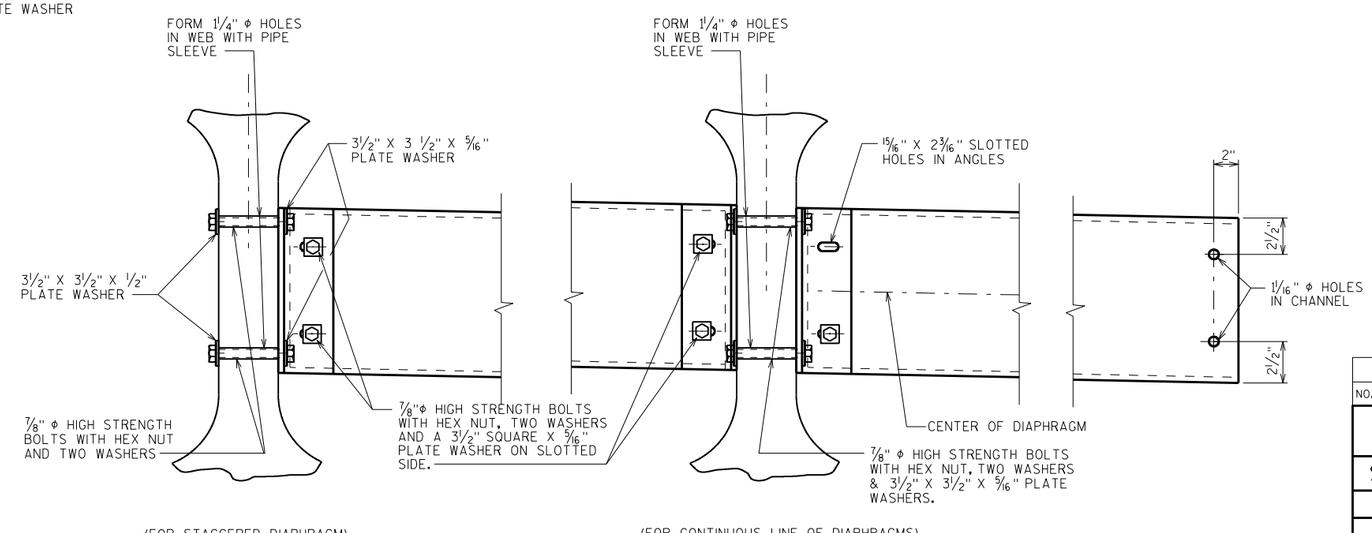


DIAPHRAGM SUPPORT

* 2½" FOR ALTERNATE PLATE DIAPHRAGM



SECTION THRU ALTERNATE DIAPHRAGM



DETAIL B

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
STRUCTURES DESIGN SECTION

STRUCTURE B-70-424

DRAWN BY EMK | PLANS CK'D. ABS

STEEL DIAPHRAGM

SHEET 13

484

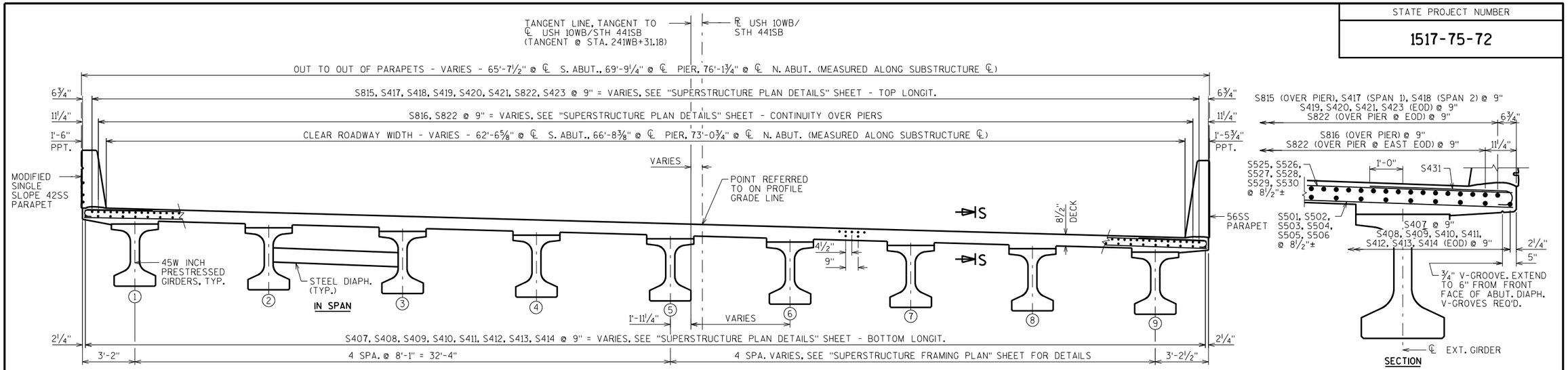
SCALE = 1.00

8

8

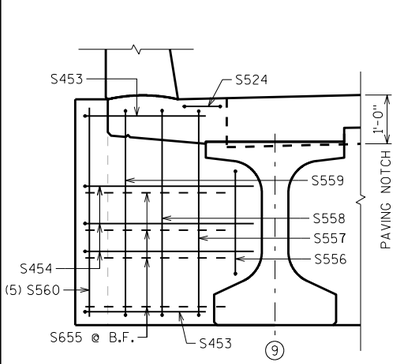
STATE PROJECT NUMBER

1517-75-72

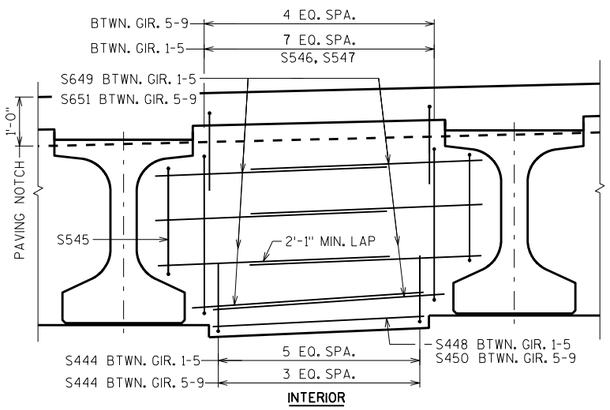


CROSS SECTION THRU ROADWAY

LOOKING NORTH



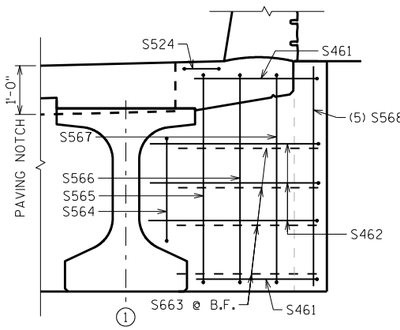
EAST EXTERIOR



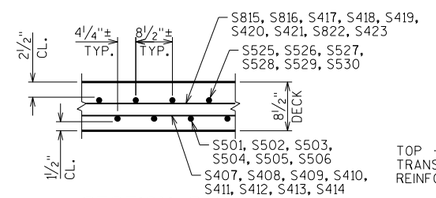
INTERIOR

SOUTH ABUT. DIAPH.

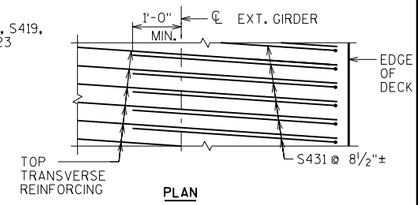
LOOKING SOUTH AT FRONT FACE OF ABUT.



WEST EXTERIOR



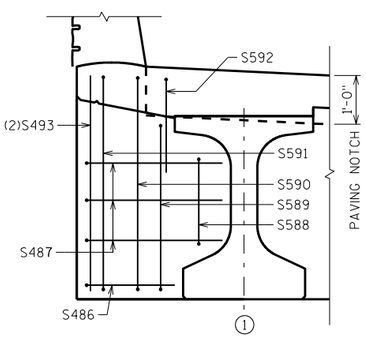
SECTION S-S



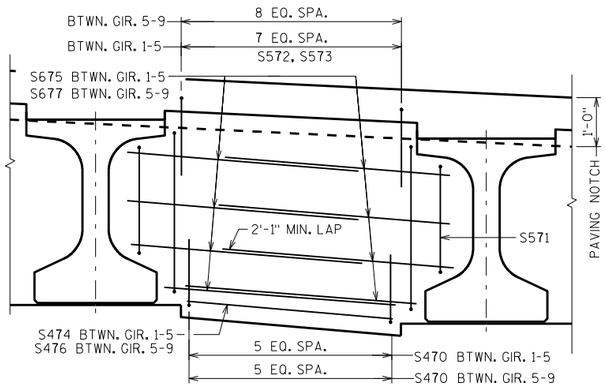
PLAN

PARAPET NOT SHOWN FOR CLARITY

ADDITIONAL REINF. DETAILS



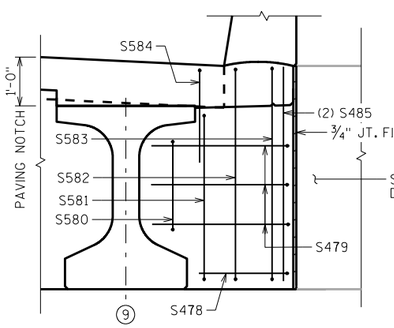
WEST EXTERIOR



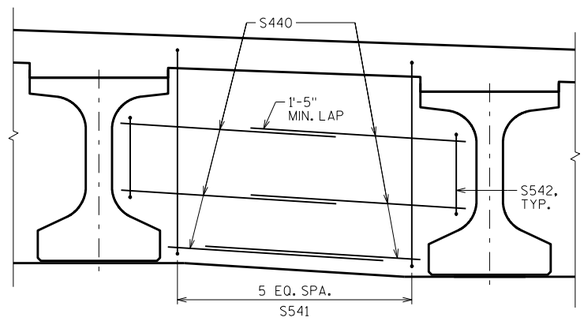
INTERIOR

NORTH ABUT. DIAPH.

LOOKING NORTH AT FRONT FACE OF ABUT.



EAST EXTERIOR



PIER DIAPH.

LOOKING NORTH

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
STRUCTURES DESIGN SECTION

STRUCTURE B-70-424

DRAWN BY EMK | PLANS CK'D. ABS

SUPERSTRUCTURE CROSS SECTION

SHEET 14

485

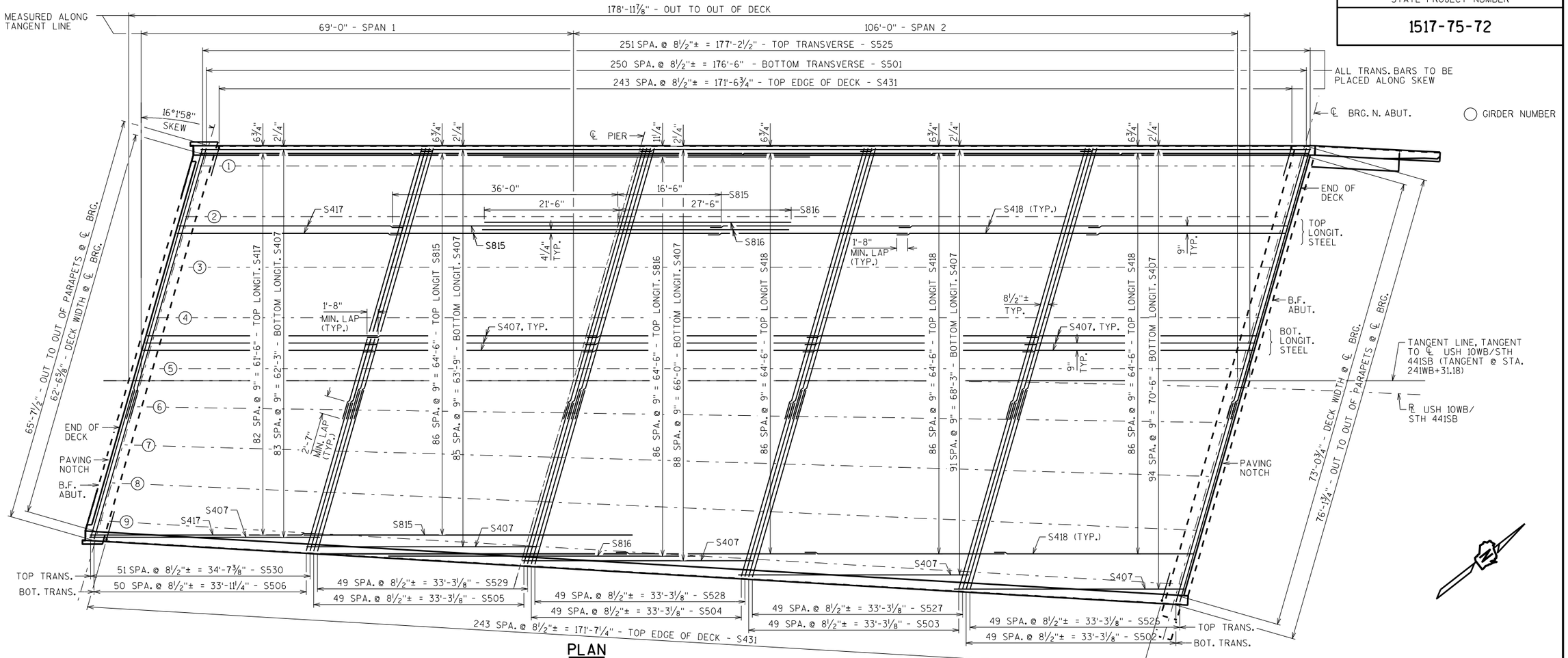
SCALE = 3.00

8

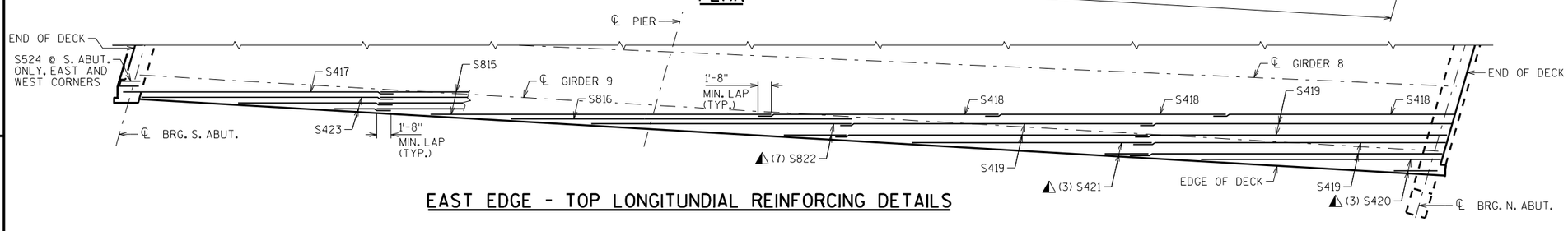
8

STATE PROJECT NUMBER

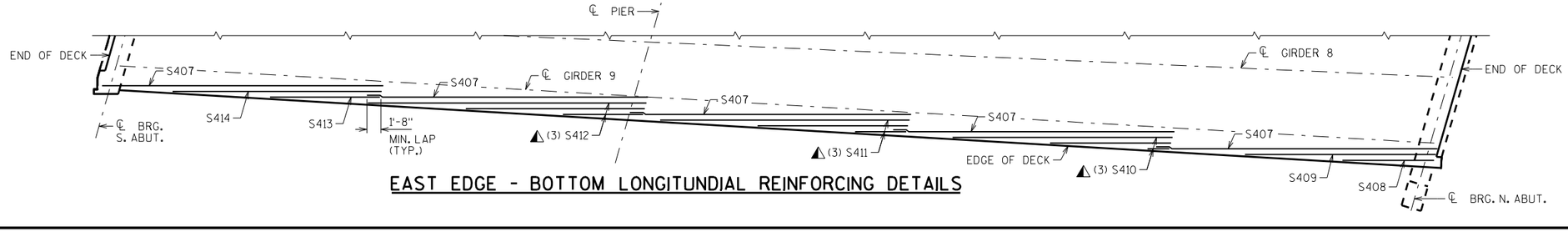
1517-75-72



PLAN



EAST EDGE - TOP LONGITUNDIAL REINFORCING DETAILS



EAST EDGE - BOTTOM LONGITUNDIAL REINFORCING DETAILS

⚠ BAR SERIES. THE NUMBER IN PARENTHESIS IS THE TOTAL NUMBER OF BARS IN THE SERIES.

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
STRUCTURES DESIGN SECTION

STRUCTURE B-70-424

DRAWN BY EMK | PLANS CK'D. ABS

SUPERSTRUCTURE PLAN DETAILS

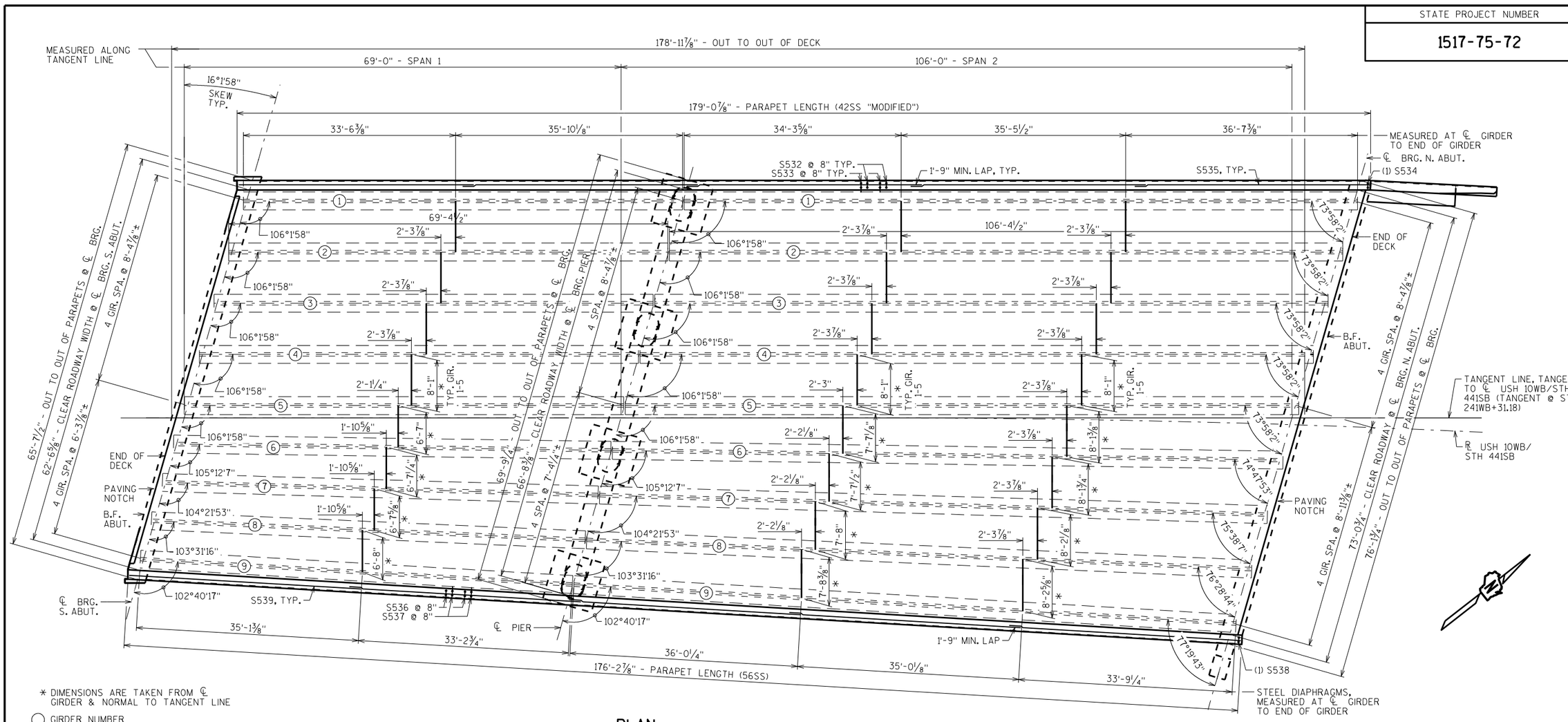
SHEET 15

486

SCALE = 8.00

STATE PROJECT NUMBER

1517-75-72



* DIMENSIONS ARE TAKEN FROM ℄ GIRDER & NORMAL TO TANGENT LINE

◯ GIRDER NUMBER

PLAN

FRAMING PLAN AND PARAPET REINFORCEMENT

TOP OF DECK ELEVATIONS

	S. ABUT.	1/10	2/10	3/10	4/10	5/10	6/10	7/10	8/10	9/10	CL PIER	1/10	2/10	3/10	4/10	5/10	6/10	7/10	8/10	9/10	N. ABUT.
W. EOD	789.42	789.56	789.70	789.83	789.97	790.10	790.23	790.37	790.50	790.63	790.76	790.95	791.15	791.34	791.53	791.72	791.90	792.09	792.28	792.47	792.66
GIR. 1	789.38	789.52	789.65	789.79	789.92	790.05	790.19	790.32	790.45	790.57	790.70	790.89	791.09	791.27	791.46	791.64	791.83	792.01	792.20	792.39	792.58
GIR. 2	789.21	789.34	789.46	789.59	789.71	789.84	789.96	790.08	790.20	790.32	790.44	790.62	790.80	790.97	791.14	791.32	791.49	791.66	791.83	792.00	792.18
GIR. 3	789.05	789.16	789.28	789.40	789.51	789.63	789.74	789.85	789.96	790.07	790.18	790.35	790.51	790.68	790.83	790.99	791.15	791.31	791.47	791.63	791.79
GIR. 4	788.89	789.00	789.10	789.21	789.32	789.42	789.53	789.63	789.73	789.83	789.93	790.09	790.24	790.38	790.53	790.67	790.82	790.96	791.11	791.25	791.40
GIR. 5	788.73	788.83	788.93	789.03	789.13	789.22	789.32	789.41	789.51	789.60	789.69	789.83	789.97	790.10	790.23	790.36	790.49	790.62	790.75	790.89	791.02
TANGENT	788.70	788.79	788.89	788.99	789.08	789.18	789.27	789.36	789.45	789.54	789.63	789.77	789.90	790.03	790.16	790.29	790.42	790.54	790.67	790.80	790.93
RL	788.70	788.79	788.89	788.99	789.08	789.18	789.27	789.36	789.45	789.54	789.63	789.77	789.90	790.02	790.15	790.27	790.39	790.51	790.63	790.76	790.88
GIR. 6	788.62	788.71	788.80	788.89	788.98	789.07	789.15	789.24	789.32	789.40	789.48	789.61	789.72	789.84	789.95	790.07	790.18	790.29	790.40	790.51	790.62
GIR. 7	788.51	788.60	788.68	788.76	788.84	788.91	788.99	789.07	789.14	789.21	789.28	789.39	789.49	789.59	789.68	789.78	789.87	789.96	790.05	790.14	790.23
GIR. 8	788.41	788.48	788.56	788.63	788.70	788.77	788.83	788.90	788.96	789.02	789.08	789.17	789.26	789.34	789.42	789.49	789.56	789.63	789.70	789.77	789.84
GIR. 9	788.31	788.37	788.44	788.50	788.56	788.62	788.68	788.73	788.79	788.84	788.89	788.96	789.03	789.09	789.15	789.21	789.26	789.32	789.37	789.41	789.46
E. EOD	788.28	788.34	788.41	788.47	788.53	788.58	788.64	788.69	788.74	788.79	788.84	788.91	788.98	789.04	789.09	789.15	789.20	789.25	789.29	789.34	789.38

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
STRUCTURES DESIGN SECTION

STRUCTURE B-70-424

DRAWN BY EMK | PLANS CK'D. ABS

SUPERSTRUCTURE FRAMING PLAN

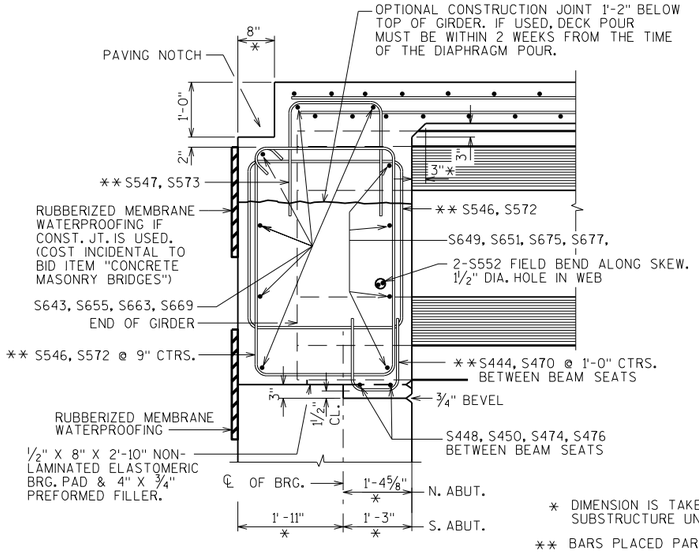
SHEET 16

487

SCALE = 8.00

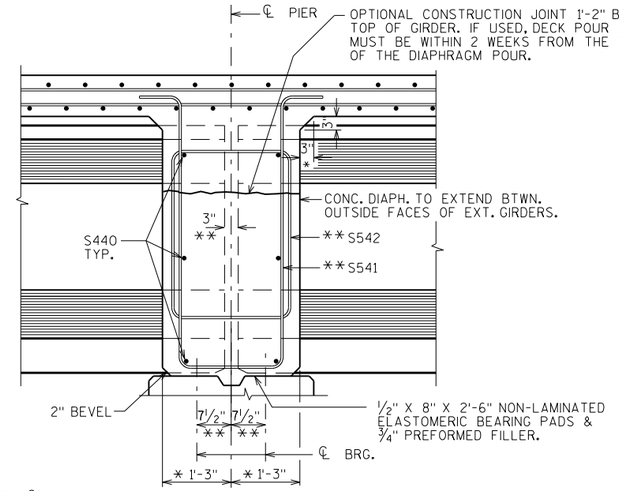
STATE PROJECT NUMBER

1517-75-72



AT ABUTMENTS

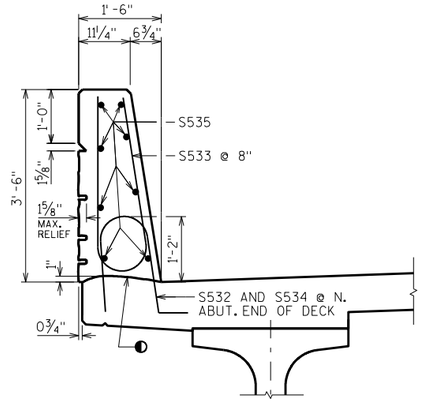
PART LONGIT. SECTION



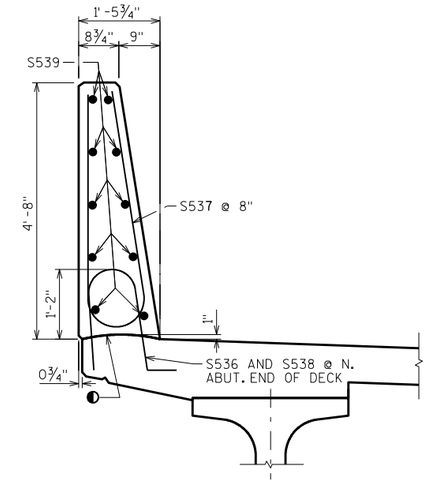
* DIMENSION IS TAKEN NORMAL TO ℄ SUBSTRUCTURE UNITS.

** BARS PLACED PARALLEL TO TANGENT LINE SPACING PERPENDICULAR TO ℄ GIRDERS

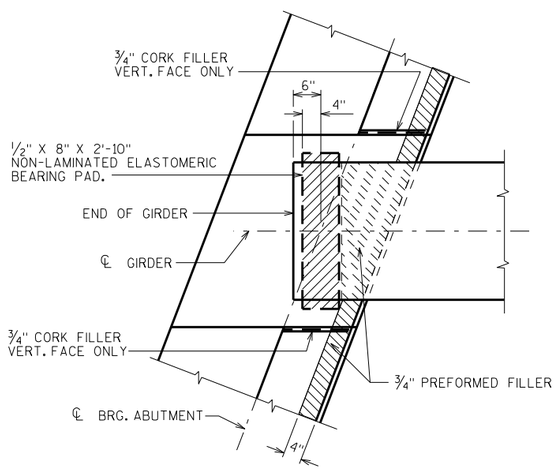
AT PIER DIAPHRAGM



SECTION THRU PARAPET 42SS "MODIFIED" ON DECK



SECTION THRU PARAPET 56SS ON DECK



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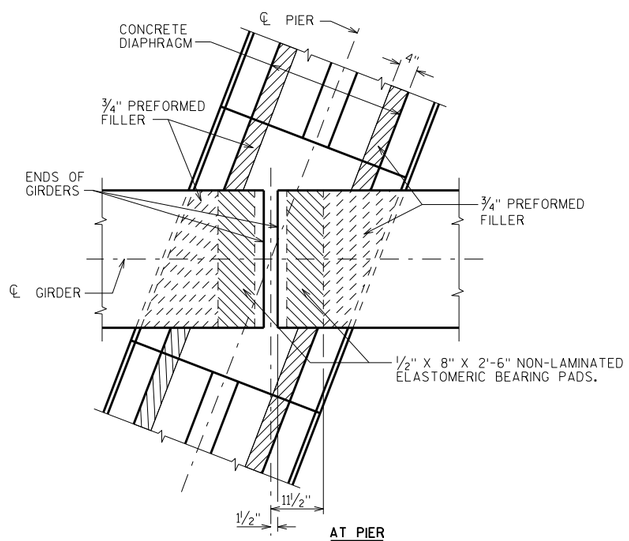


AT PIER

BEARING PAD DETAIL

◐ LEAVE AREA UNDER PARAPET ROUGH

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
STRUCTURES DESIGN SECTION

STRUCTURE B-70-424

DRAWN BY EMK | PLANS CK'D. ABS

SUPERSTRUCTURE DETAILS

SHEET 17

488

SCALE = 1.33

8

8

BILL OF BARS

NOTE: THE FIRST OR FIRST TWO DIGITS OF THE BAR MARK SIGNIFIES THE BAR SIZE

BAR MARK	COAT	NO. REQ'D.	LENGTH	BENT	BAR SERIES	LOCATION
S501	X	251	45'-0"			TRANSVERSE - BOT. - WEST EOD
S502	X	50	33'-4"			TRANSVERSE - BOT. - EAST EOD
S503	X	50	31'-3"			TRANSVERSE - BOT. - EAST EOD
S504	X	50	29'-1"			TRANSVERSE - BOT. - EAST EOD
S505	X	50	27'-0"			TRANSVERSE - BOT. - EAST EOD
S506	X	51	24'-10"			TRANSVERSE - BOT. - EAST EOD
S407	X	446	36'-10"			LONGIT. - BOT.
S408	X	1	13'-5"			LONGIT. - BOT. - EAST EOD
S409	X	1	26'-4"			LONGIT. - BOT. - EAST EOD
S410	X	3	17'-4"		⚠	LONGIT. - BOT. - EAST EOD
S411	X	3	21'-2"		⚠	LONGIT. - BOT. - EAST EOD
S412	X	3	25'-0"		⚠	LONGIT. - BOT. - EAST EOD
S413	X	1	15'-10"			LONGIT. - BOT. - EAST EOD
S414	X	1	28'-10"			LONGIT. - BOT. - EAST EOD
S815	X	87	52'-6"			CONTUNITY - TOP - OVER PIER - LAP INTO TOP LONGIT.
S816	X	87	49'-0"			CONTUNITY - TOP - OVER PIER
S417	X	83	35'-10"			LONGIT. - TOP - SPAN 1
S418	X	261	31'-11"			LONGIT. - TOP - SPAN 2
S419		11	41'-6"			LONGIT. - TOP - SPAN 2 - EAST EOD
S420	X	3	19'-10"		⚠	LONGIT. - TOP - SPAN 2 - EAST EOD
S421	X	3	19'-0"		⚠	LONGIT. - TOP - SPAN 2 - EAST EOD
S822	X	7	24'-7"		⚠	CONTINUITY. - TOP - EAST EOD
S423	X	3	21'-3"		⚠	LONGIT. - TOP - SPAN 1 - EAST EOD
S524	X	2	5'-8"	X		LONGIT. - TOP - SOUTH ABUT. CORNERS
S525	X	252	45'-0"			TRANSVERSE - TOP - WEST EOD
S526	X	50	33'-4"			TRANSVERSE - TOP - EAST EOD
S527	X	50	31'-3"			TRANSVERSE - TOP - EAST EOD
S528	X	50	29'-1"			TRANSVERSE - TOP - EAST EOD
S529	X	50	27'-0"			TRANSVERSE - TOP - EAST EOD
S530	X	52	24'-10"			TRANSVERSE - TOP - EAST EOD
S431	X	488	4'-8"	X		TRANSVERSE - TOP - DECK EDGES
S532	X	267	4'-5"	X		PPT. 42SS MOD. - VERT.
S533	X	268	6'-8"	X		PPT. 42SS MOD. - VERT.
S534	X	1	5'-10"	X		PPT. 42SS MOD. - VERT. - N. ABUT.
S535	X	40	37'-2"			PPT. 42SS MOD. - HORIZ.
S536	X	263	4'-6"	X		PPT. 56SS MOD. - VERT.
S537	X	264	9'-1"	X		PPT. 56SS MOD. - VERT.
S538	X	1	5'-11"	X		PPT. 56SS MOD. - VERT. - N. ABUT.
S539	X	50	36'-8"			PPT. 56SS MOD. - HORIZ.
S440	X	96	4'-6"			PIER DIAPH. - HORIZ.
S541	X	48	11'-11"	X		PIER DIAPH. - VERT.
S542	X	16	9'-6"	X		PIER DIAPH. - VERT.
S643	X	12	34'-9"			SOUTH ABUT. DIAPH. - HORIZ.
S444	X	40	3'-7"	X		SOUTH ABUT. DIAPH. - VERT. BETWEEN GIRDERS
S545	X	16	10'-10"	X		SOUTH ABUT. DIAPH. - VERT. BETWEEN GIRDERS
S546	X	52	13'-2"	X		SOUTH ABUT. DIAPH. - VERT. BETWEEN GIRDERS
S547	X	52	7'-4"	X		SOUTH ABUT. DIAPH. - VERT. BETWEEN GIRDERS
S448	X	8	4'-5"			SOUTH ABUT. DIAPH. - HORIZ. BETWEEN GIRDERS 1-5
S649	X	32	4'-10"			SOUTH ABUT. DIAPH. - HORIZ. BETWEEN GIRDERS 1-5
S450	X	8	2'-4"			SOUTH ABUT. DIAPH. - HORIZ. BETWEEN GIRDERS 5-9
S651	X	32	3'-9"			SOUTH ABUT. DIAPH. - HORIZ. BETWEEN GIRDERS 5-9
S552	X	36	6'-0"			ABUT. DIAPH. - THRU GIRDER
S453	X	2	5'-11"	X		SOUTH ABUT. DIAPH. E. EXT. - HORIZ.
S454	X	3	7'-1"	X		SOUTH ABUT. DIAPH. E. EXT. - HORIZ.
S655	X	4	4'-9"	X		SOUTH ABUT. DIAPH. E. EXT. - HORIZ.
S556	X	1	10'-10"	X		SOUTH ABUT. DIAPH. E. EXT. - VERT.
S557	X	1	15'-2"	X		SOUTH ABUT. DIAPH. E. EXT. - VERT.
S558	X	1	14'-10"	X		SOUTH ABUT. DIAPH. E. EXT. - VERT.
S559	X	1	14'-6"	X		SOUTH ABUT. DIAPH. E. EXT. - VERT.
S560	X	5	4'-4"			SOUTH ABUT. DIAPH. E. EXT. - VERT.
S461	X	2	7'-1"	X		SOUTH ABUT. DIAPH. W. EXT. - HORIZ.
S462	X	3	8'-4"	X		SOUTH ABUT. DIAPH. W. EXT. - HORIZ.
S663	X	4	4'-10"	X		SOUTH ABUT. DIAPH. W. EXT. - HORIZ.
S564	X	1	10'-10"	X		SOUTH ABUT. DIAPH. W. EXT. - VERT.
S565	X	1	15'-2"	X		SOUTH ABUT. DIAPH. W. EXT. - VERT.
S566	X	1	15'-4"	X		SOUTH ABUT. DIAPH. W. EXT. - VERT.
S567	X	1	15'-10"	X		SOUTH ABUT. DIAPH. W. EXT. - VERT.
S568	X	5	4'-4"			SOUTH ABUT. DIAPH. W. EXT. - VERT.

BAR MARK	COAT	NO. REQ'D.	LENGTH	BENT	BAR SERIES	LOCATION
S669	X	12	39'-5"			NORTH ABUT. DIAPH. - HORIZ.
S470	X	48	3'-9"	X		NORTH ABUT. DIAPH. - VERT. BETWEEN GIRDERS
S571	X	16	11'-2"	X		NORTH ABUT. DIAPH. - VERT. BETWEEN GIRDERS
S572	X	68	13'-6"	X		NORTH ABUT. DIAPH. - VERT. BETWEEN GIRDERS
S573	X	68	7'-6"	X		NORTH ABUT. DIAPH. - VERT. BETWEEN GIRDERS
S474	X	8	4'-5"			NORTH ABUT. DIAPH. - HORIZ. BETWEEN GIRDERS 1-5
S675	X	32	4'-10"			NORTH ABUT. DIAPH. - HORIZ. BETWEEN GIRDERS 1-5
S476	X	8	4'-11"			NORTH ABUT. DIAPH. - HORIZ. BETWEEN GIRDERS 5-9
S677	X	32	5'-1"			NORTH ABUT. DIAPH. - HORIZ. BETWEEN GIRDERS 5-9
S478	X	1	8'-11"	X		NORTH ABUT. DIAPH. W. EXT. - HORIZ.
S479	X	3	10'-0"	X		NORTH ABUT. DIAPH. W. EXT. - HORIZ.
S580	X	1	11'-2"	X		NORTH ABUT. DIAPH. W. EXT. - VERT.
S581	X	1	13'-10"	X		NORTH ABUT. DIAPH. W. EXT. - VERT.
S582	X	1	15'-10"	X		NORTH ABUT. DIAPH. W. EXT. - VERT.
S583	X	1	16'-1"	X		NORTH ABUT. DIAPH. W. EXT. - VERT.
S584	X	1	7'-6"	X		NORTH ABUT. DIAPH. W. EXT. - VERT.
S485	X	2	4'-5"			NORTH ABUT. DIAPH. W. EXT. - VERT.
S486	X	1	8'-6"	X		NORTH ABUT. DIAPH. E. EXT. - HORIZ.
S487	X	3	9'-6"	X		NORTH ABUT. DIAPH. E. EXT. - HORIZ.
S588	X	1	11'-2"	X		NORTH ABUT. DIAPH. E. EXT. - VERT.
S589	X	1	13'-10"	X		NORTH ABUT. DIAPH. E. EXT. - VERT.
S590	X	1	15'-10"	X		NORTH ABUT. DIAPH. E. EXT. - VERT.
S591	X	1	15'-5"	X		NORTH ABUT. DIAPH. E. EXT. - VERT.
S592	X	1	7'-6"	X		NORTH ABUT. DIAPH. E. EXT. - VERT.
S493	X	2	4'-7"			NORTH ABUT. DIAPH. E. EXT. - VERT.

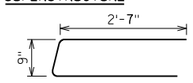
BAR SERIES TABLE

BAR MARK	NO. REQ'D.	LENGTH
S410	1 SERIES 3	4'-4" TO 30'-3"
S411	1 SERIES 3	8'-2" TO 34'-2"
S412	1 SERIES 3	12'-0" TO 38'-0"
S420	1 SERIES 3	6'-10" TO 32'-9"
S421	1 SERIES 3	6'-11" TO 32'-10"
S822	1 SERIES 7	5'-2" TO 44'-1"
S423	1 SERIES 3	8'-3" TO 34'-3"

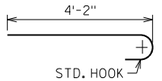
BUNDLE AND TAG EACH SERIES SEPARATELY.

⚠ LENGTH SHOWN FOR BAR IS AN AVERAGE LENGTH AND SHOULD ONLY BE USED FOR BAR WEIGHT CALCULATIONS. SEE BAR SERIES TABLE FOR ACTUAL LENGTHS.

SUPERSTRUCTURE



S524



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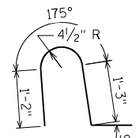

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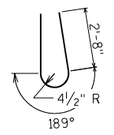

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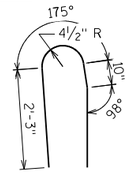

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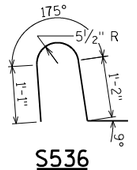

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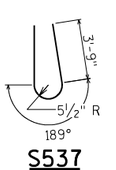

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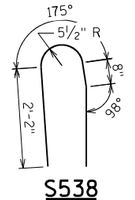
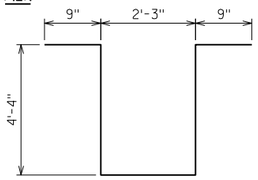


S538

PIER



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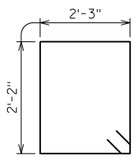
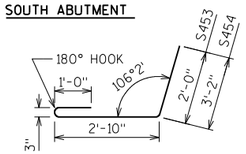
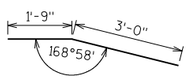


S542

SOUTH ABUTMENT



S453, S454



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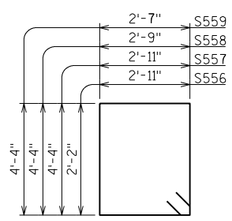
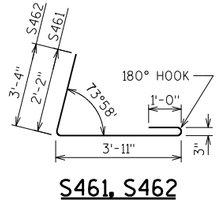
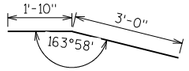


S556, S557, S558, S559

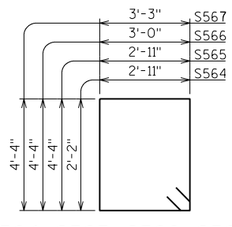
SOUTH ABUT. DIAPH. EAST EXTERIOR



S461, S462



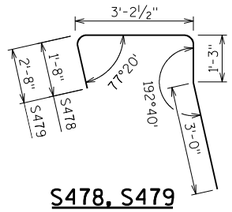
S663



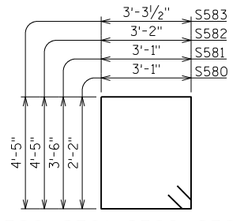
S564, S565, S566, S567

SOUTH ABUT. DIAPH. WEST EXTERIOR

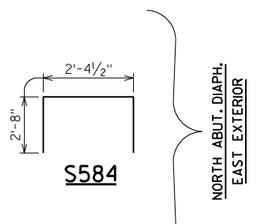
NORTH ABUTMENT



S478, S479

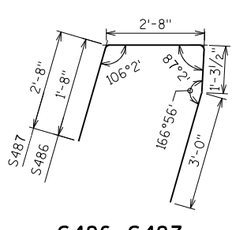


S580, S581, S582, S583

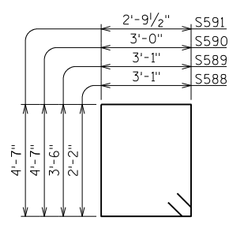


S584

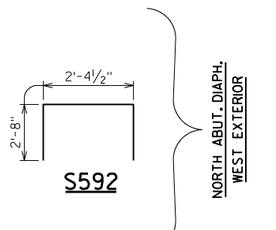
NORTH ABUT. DIAPH. EAST EXTERIOR



S486, S487

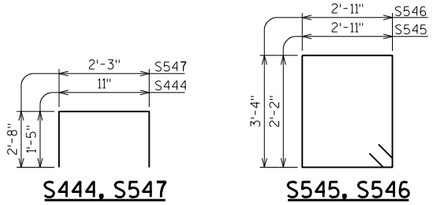


S588, S589, S590, S591



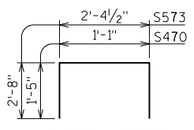
S592

NORTH ABUT. DIAPH. WEST EXTERIOR

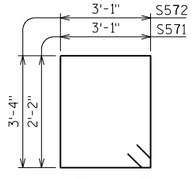


S545, S546

S444, S547



S470, S573



S571, S572

STATE PROJECT NUMBER

1517-75-72

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
STRUCTURES DESIGN SECTION

STRUCTURE B-70-424

DRAWN BY EMK | PLANS CK'D. ABS

SUPERSTRUCTURE BARS

SHEET 18

489

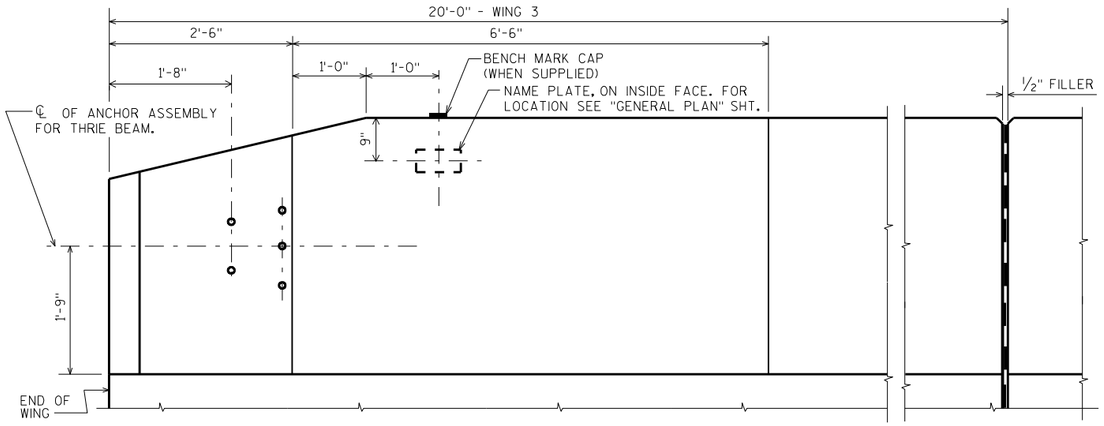
SCALE = 1.00

8

8

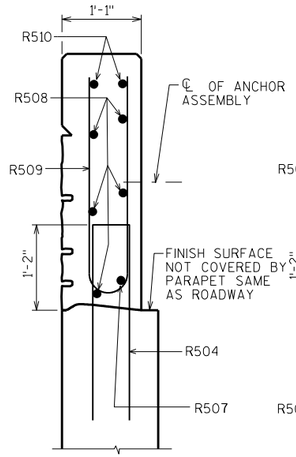
STATE PROJECT NUMBER

1517-75-72

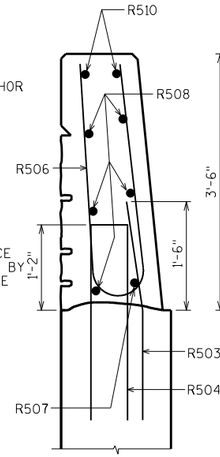


OUTSIDE ELEVATION

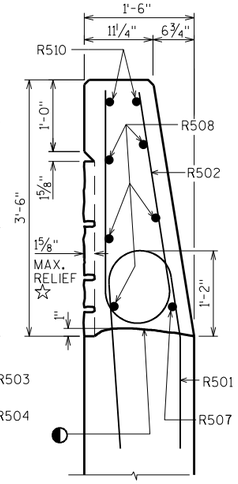
☆ ASHLAR FORMLINER. SEE "AESTHETICS" SHEETS.



SECTION A



SECTION B



SECTION C

BILL OF BARS

FOR ABUTMENT PARAPETS

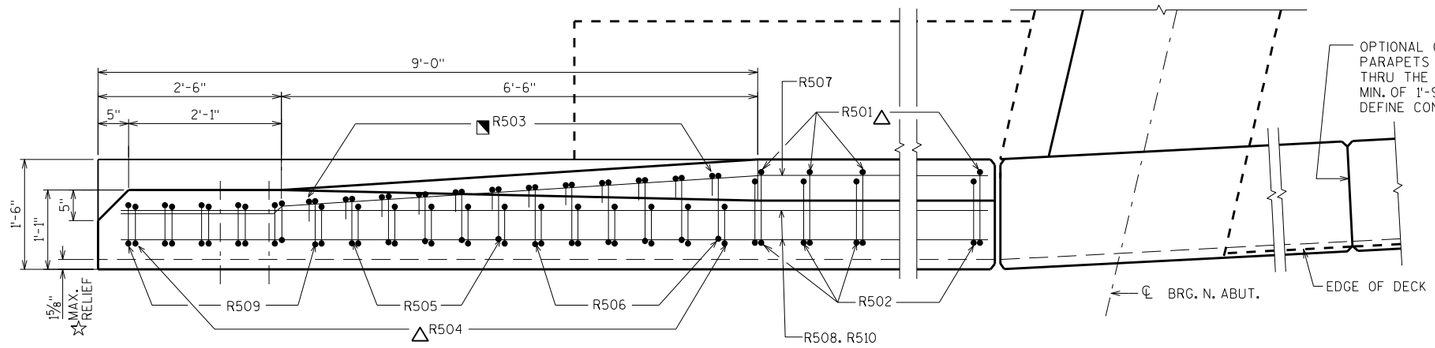
BAR MARK	COAT	N. ABUT.	LENGTH	BENT	BAR SERIES	LOCATION
R501	X	18	5'-10"	X		PARAPET VERT.
R502	X	18	6'-8"	X		PARAPET VERT.
R503	X	12	3'-0"	X		PARAPET VERT.
R504	X	17	5'-7"	X		PARAPET VERT.
R505	X	5	6'-5"	X		PARAPET VERT.
R506	X	6	6'-6"	X		PARAPET VERT.
R507	X	1	19'-4"	X		PARAPET HORIZ.
R508	X	5	19'-7"			PARAPET HORIZ.
R509	X	6	5'-5"	X	◭	PARAPET VERT.
R510	X	2	19'-6"	X		PARAPET HORIZ.

◭ LENGTH SHOWN FOR BAR IS AN AVERAGE LENGTH AND SHOULD ONLY BE USED FOR BAR WEIGHT CALCULATIONS. SEE BAR SERIES TABLE FOR ACTUAL LENGTHS.

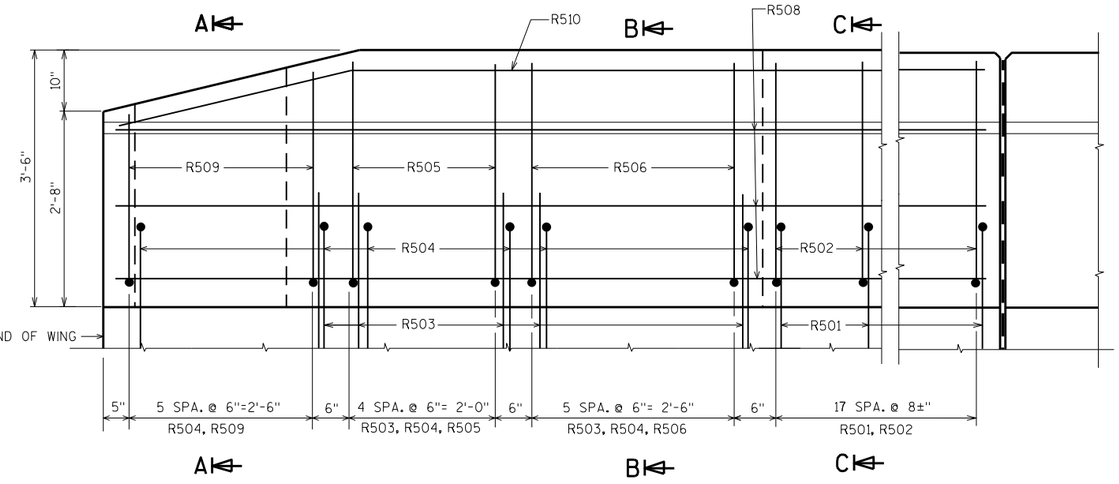
BAR SERIES TABLE

MARK	NO. REQD.	LENGTH
R509	4 SERIES OF 6	4'-9" TO 6'-1"

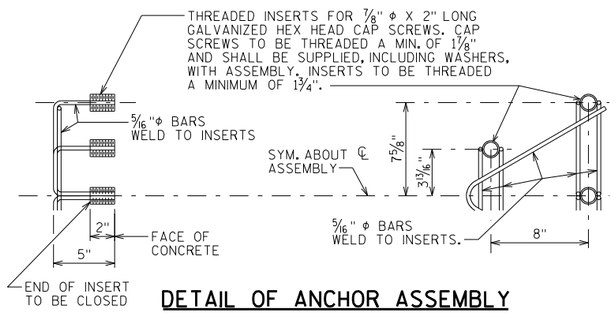
BUNDLE AND TAG EACH SERIES SEPARATELY.



PLAN



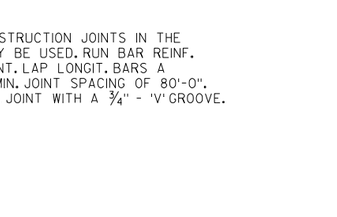
OUTSIDE ELEVATION

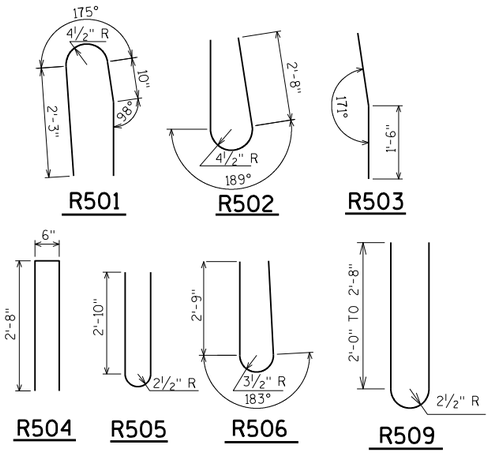


DETAIL OF ANCHOR ASSEMBLY

NOTE: HEX HEAD CAP SCREWS & WASHERS TO BE GALVANIZED IN ACCORDANCE WITH AASHTO M232 CLASS C.

ASSEMBLY SHALL BE BID ITEM "ANCHOR ASSEMBLIES FOR STEEL PLATE BEAM GUARD", EACH.





◐ CONST. JOINT - STRIKE OFF AS SHOWN.

◪ R503 BARS MAY BE PLACED AFTER CONCRETE IS POURED BUT BEFORE INITIAL SET HAS TAKEN PLACE. USE CARE TO PLACE R503 BARS CORRECTLY ALONG TRANSITION OF PARAPET.

▽ R501 AND R504 BARS TO BE TIED TO WING STEEL BEFORE WING IS POURED.

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
STRUCTURES DESIGN SECTION

STRUCTURE B-70-424

DRAWN BY EMK | PLANS CK'D. ABS

MODIFIED SINGLE SLOPE PARAPET 42SS

SHEET 19

490

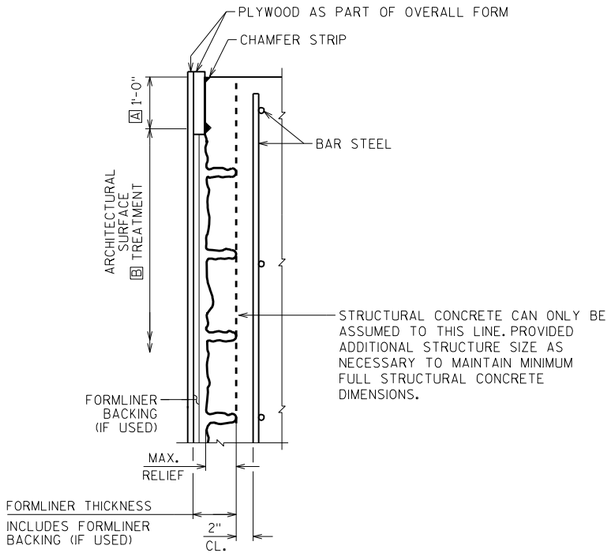
SCALE = 1.00

8

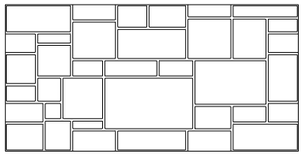
8

STATE PROJECT NUMBER

1517-75-72



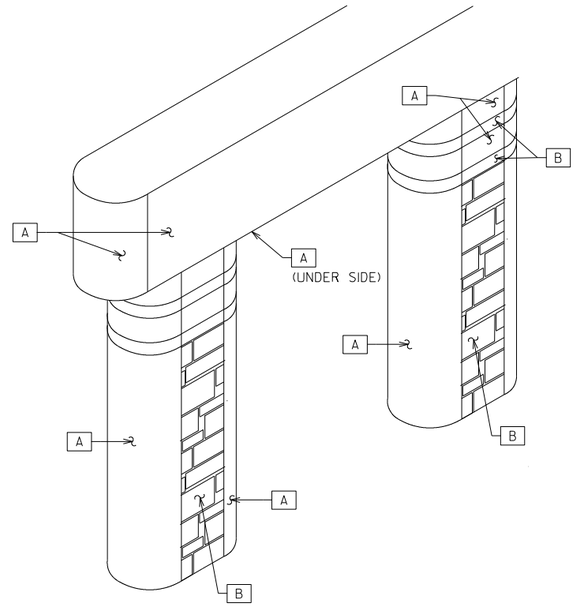
SECTION THROUGH PARAPET FORMLINER



ASHLAR

MAXIMUM RELIEF:	1⅝"
AVERAGE RELIEF:	1¼"
LINER THICKNESS*:	2½"
STONE SIZE:	H: 3" - 17" W: 5"-29"

* INCLUDES INTERNAL PLYWOOD BACKING



PIER STAINING DETAIL

CONCRETE STAINING SCHEDULE

MARK	COLOR	FED. COLOR NO.	LOCATION
A	HOPSACK	SW 6109	FASCIA GIRDERS, DECK EDGE, PLAIN CAPS, ABUT. DIAPH., PIER CAPS AND COLUMNS
B	LATTE	33522	FORMLINER ON PIER COLUMNS, NORTH ABUTMENT, WING AND PARAPET

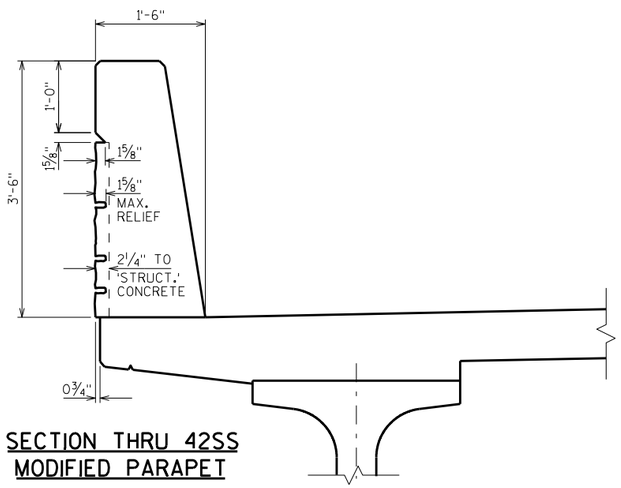
NOTE: 1. FINISH ON COLORS IS FLAT (LUSTERLESS)

NOTES

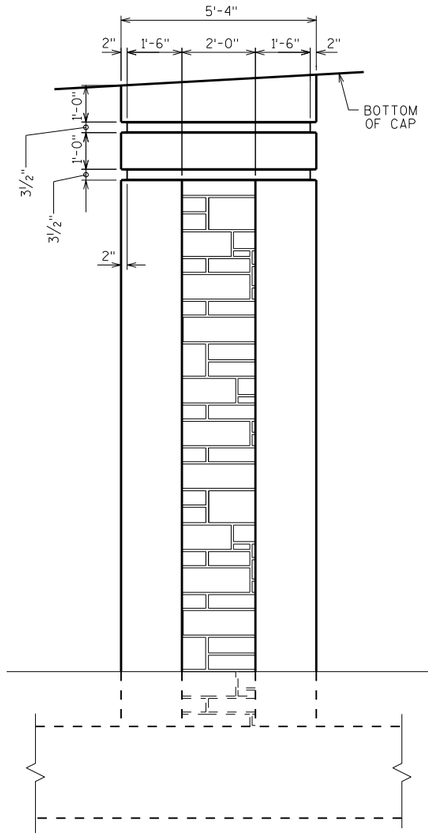
FORMLINER COURSING ON ABUTMENTS, WING AND PIER COLUMNS SHALL BE LEVEL.

THE FORMLINER PATTERN SHALL BE CONTINUOUS ACROSS CONSTRUCTION JOINTS.

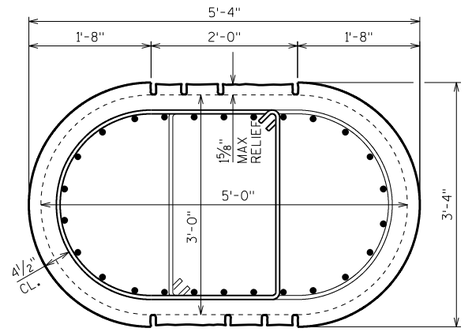
FORMLINER COURSING ON PARAPETS SHALL BE PARALLEL TO TOP OF PARAPET.



SECTION THRU 42SS MODIFIED PARAPET



PIER COLUMN DETAILS



AESTHETIC OVAL COLUMN W/ASHLAR FORMLINER

AREA = 13.07 SF (STRUCTURAL)
AREA = 15.39 SF (TOTAL)

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
STRUCTURES DESIGN SECTION

STRUCTURE B-70-424

DRAWN BY EMK | PLANS CK'D. ABS

AESTHETICS 1

SHEET 20

491

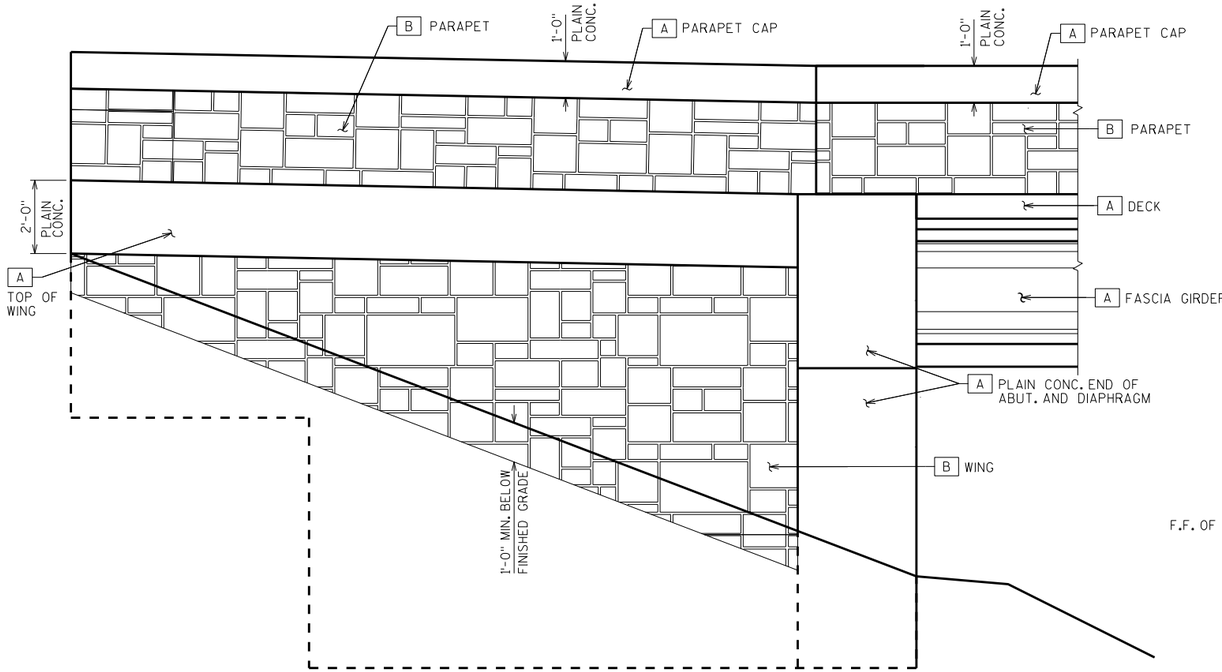
SCALE = 1.00

8

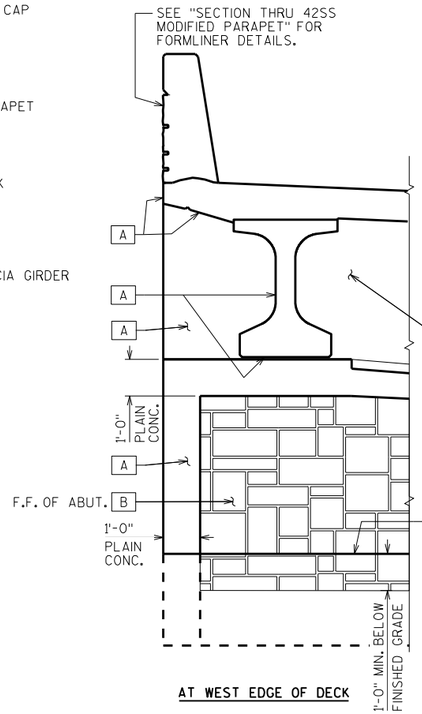
8

STATE PROJECT NUMBER

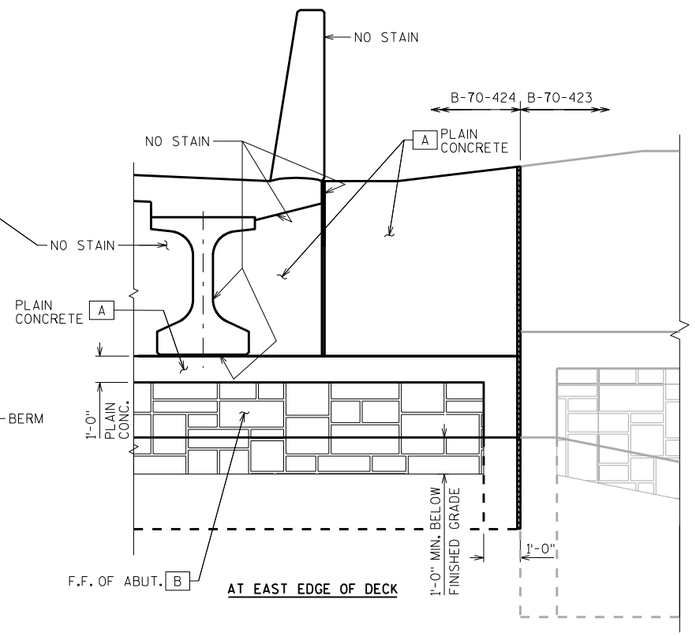
1517-75-72



AT WEST EDGE OF DECK
WING 3

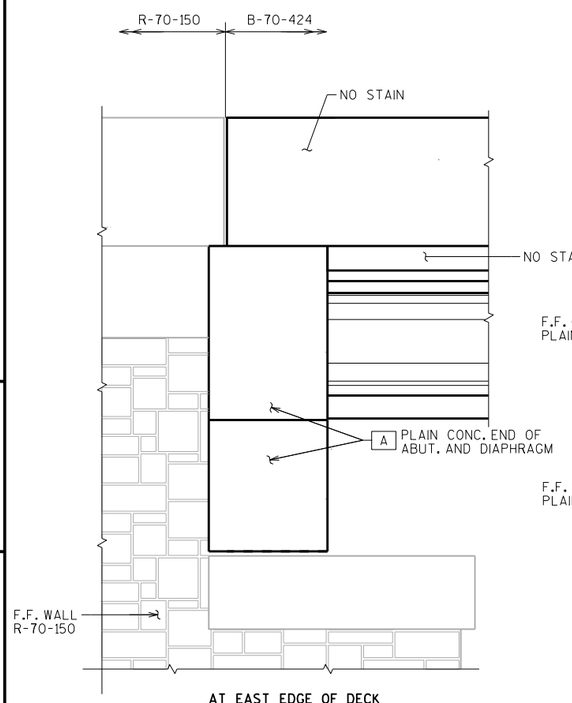


AT WEST EDGE OF DECK

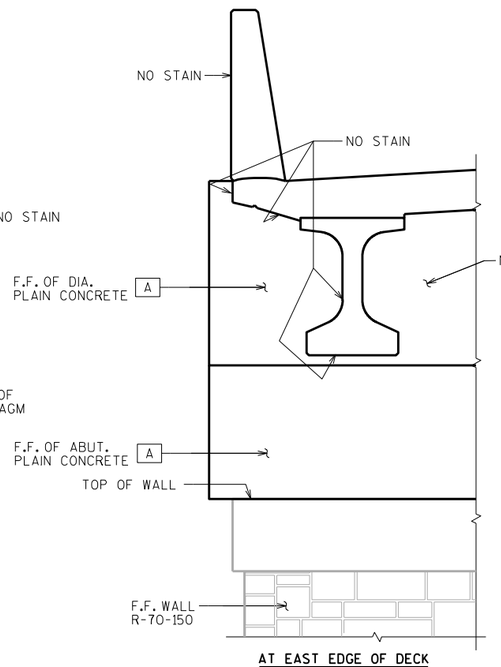


AT EAST EDGE OF DECK

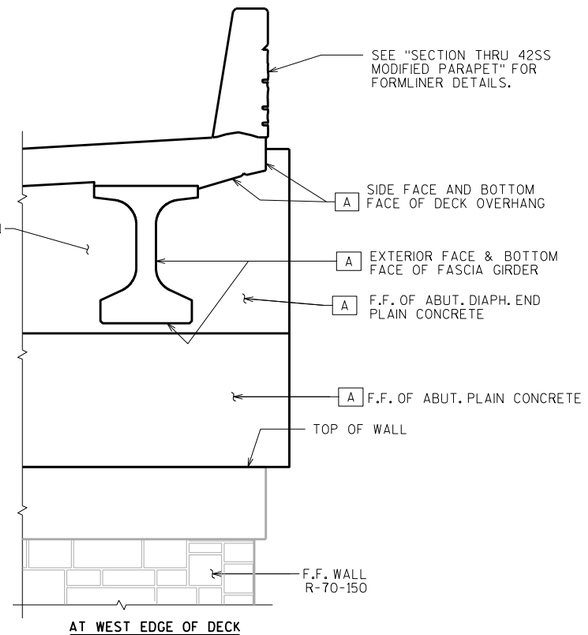
NORTH ABUTMENT AESTHETIC DETAILS



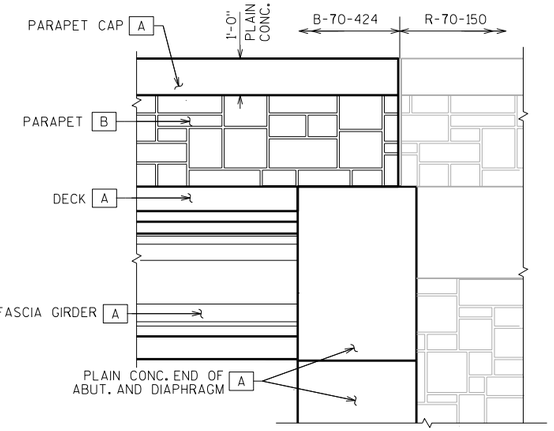
AT EAST EDGE OF DECK
EAST EDGE OF ABUTMENT SHOWN



AT EAST EDGE OF DECK



AT WEST EDGE OF DECK



AT WEST EDGE OF DECK

SOUTH ABUTMENT AESTHETIC DETAILS

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
STRUCTURES DESIGN SECTION

STRUCTURE B-70-424

DRAWN BY EMK | PLANS CK'D. ABS

AESTHETICS 2

SHEET 21

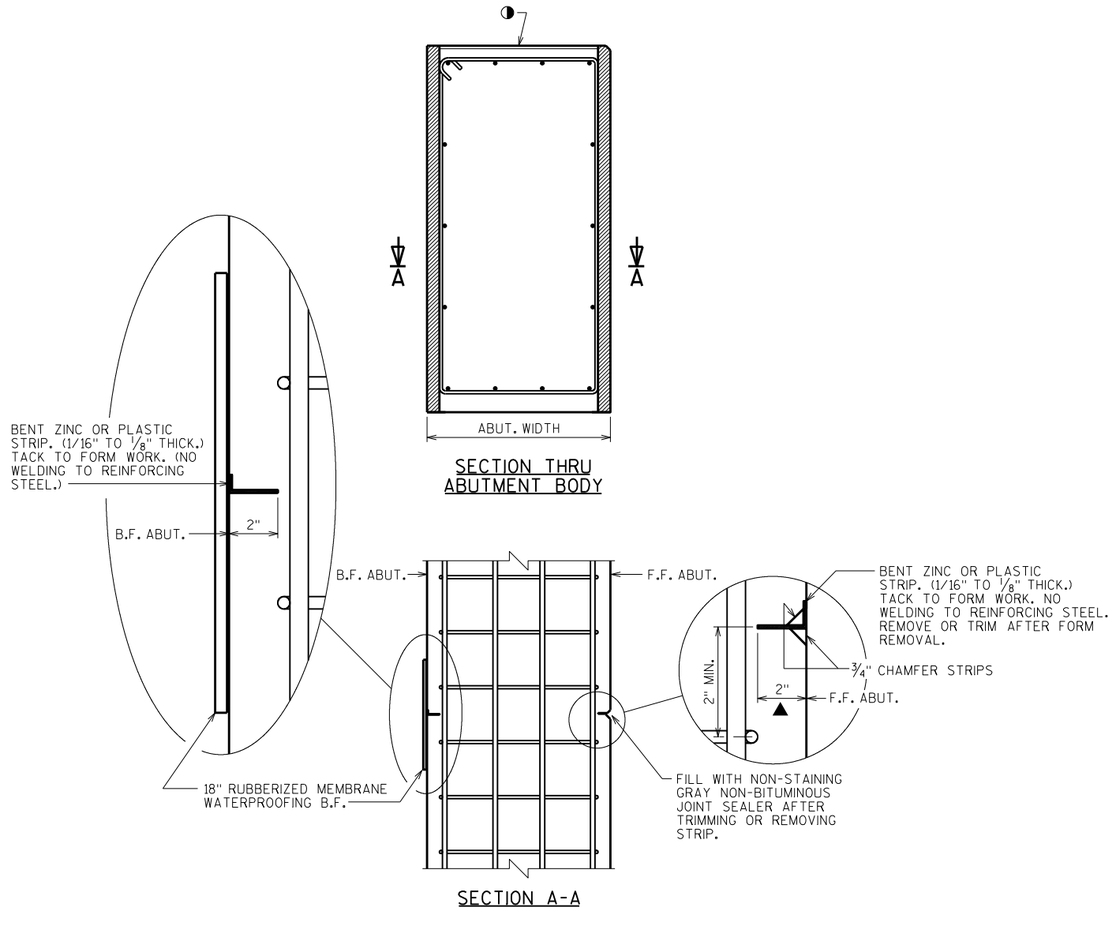
492

SCALE = 1.00

8

8

STATE PROJECT NUMBER
1517-75-72



SECTION THRU ABUTMENT BODY

SECTION A-A

ALTERNATE CONSTRUCTION JOINT AT ABUTMENT

NOTES

PARTIAL ZINC OR PLASTIC BULKHEAD MAY BE USED AS ALTERNATE CONSTRUCTION JOINT, WITH THE PERMISSION OF THE ENGINEER, AT THE CONTRACTOR'S EXPENSE.

VERTICAL CONSTRUCTION JOINT KEYWAY IS NOT REQUIRED WHEN USING ALTERNATE CONSTRUCTION JOINT.

CARE IS TO BE USED IN CASTING CONCRETE AROUND BULKHEAD TO PREVENT DISLOCATION OR MISALIGNMENT OF THE BULKHEAD.

◑ USE A JOINT TOOL TO CONSTRUCT A CONTRACTION JOINT APPROXIMATELY 1/2" DEEP.

▲ DIMENSION IS FOR ABUT. WITHOUT FORMLINER. ADD "MAX RELIEF" DIMENSION FROM "AESTHETICS 1" SHEET TO THIS DIMENSION WHERE FORMLINER IS PRESENT.

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
STRUCTURES DESIGN SECTION

STRUCTURE B-70-424

DRAWN BY EMK | PLANS CK'D. ABS

ALTERNATE CONST. JOINT

SHEET 22

493

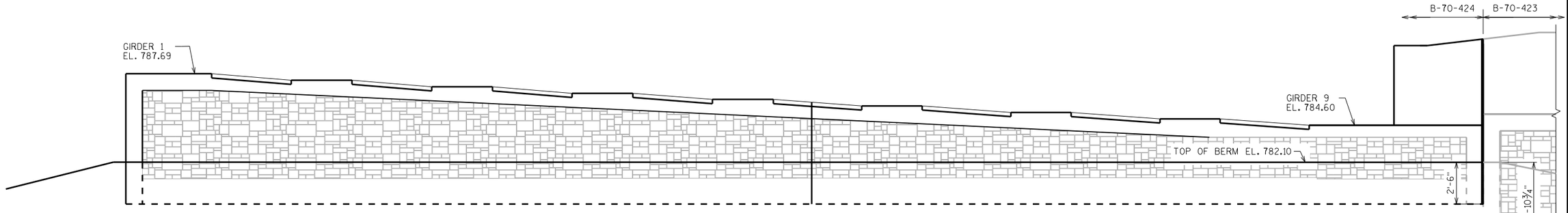
SCALE = 1.00

8

8

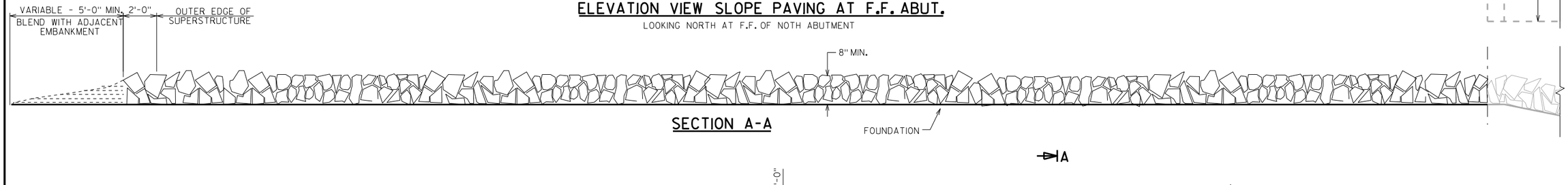
STATE PROJECT NUMBER

1517-75-72

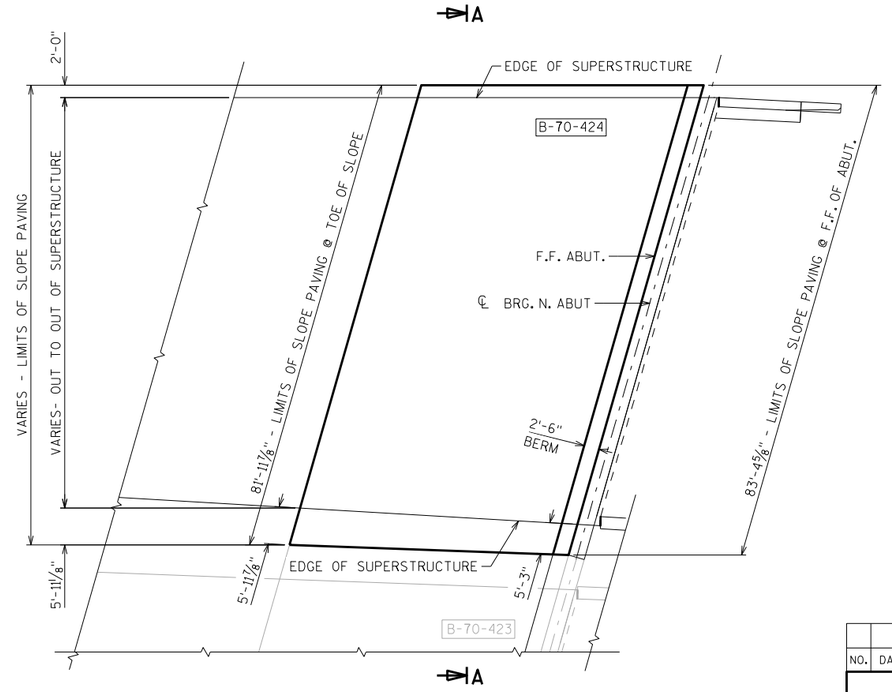


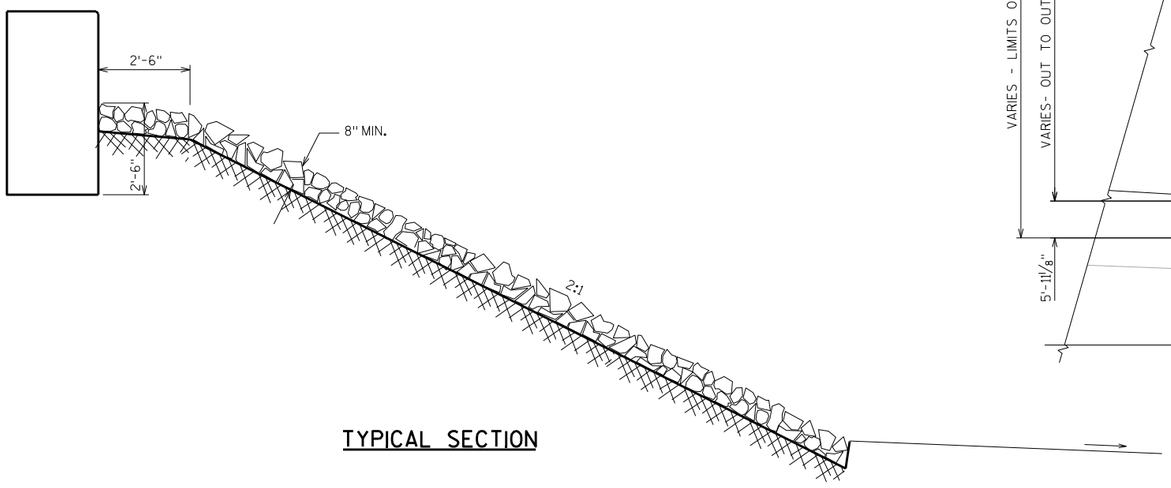
ELEVATION VIEW SLOPE PAVING AT F.F. ABUT.

LOOKING NORTH AT F.F. OF NOTH ABUTMENT



SECTION A-A





TYPICAL SECTION

NOTES

DETAILS OF CONSTRUCTION, MATERIALS AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS.

WOOD FORMS MAY BE LEFT IN PLACE WHEN OF A QUALITY ACCEPTABLE TO THE ENGINEER.

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
STRUCTURES DESIGN SECTION

STRUCTURE B-70-424

DRAWN BY EMK | PLANS CK'D. ABS

SLOPE PAVING

SHEET 23

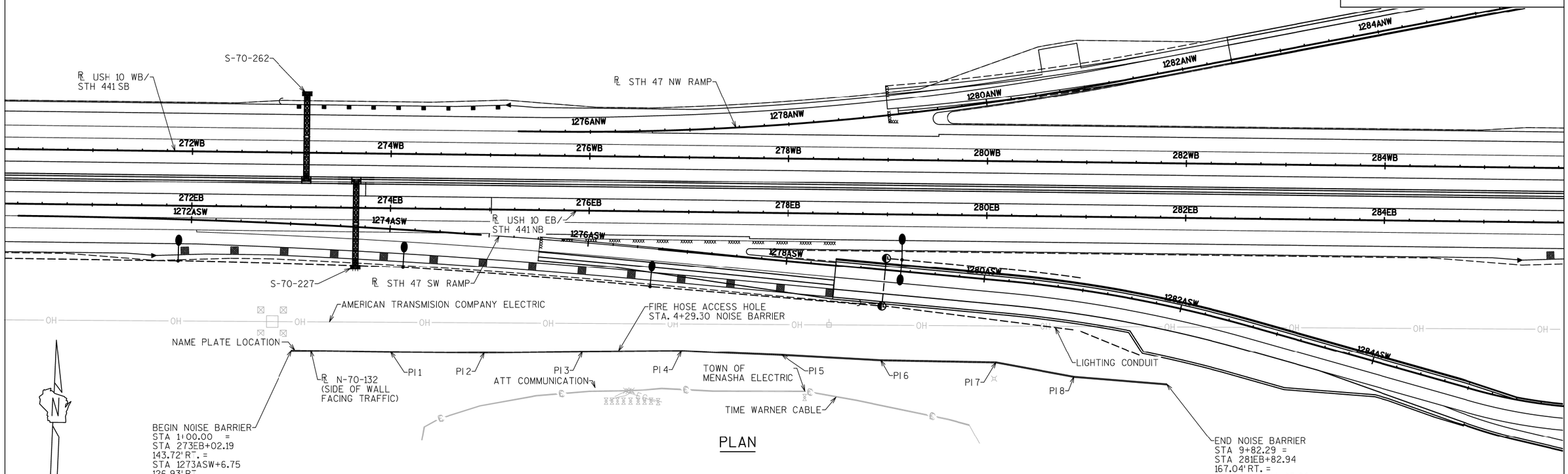
494

SCALE = 3.00

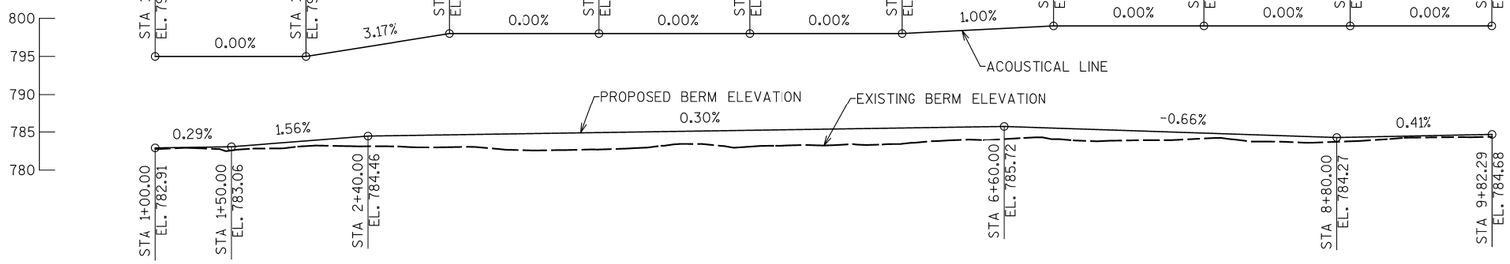
8

8

STATE PROJECT NUMBER
1517-75-72



PLAN



ELEVATION

TOTAL ESTIMATE OF QUANTITIES

ITEM NO.	BID ITEM	UNIT	TOTAL
531.0300.S	NOISE BARRIER DOUBLE-SIDED SOUND ABSORPTIVE N-70-132	SF	11,600

GENERAL NOTES

DRAWINGS SHALL NOT BE SCALED.

THE CONTRACTOR SHALL PROVIDE COMPLETE DESIGN, PLANS, DETAILS, SPECIFICATIONS, AND SHOP DRAWINGS FOR THE NOISE BARRIER IN ACCORDANCE WITH THE SPECIAL PROVISIONS. THE NOISE BARRIER MANUFACTURER SHALL PROVIDE TECHNICAL ASSISTANCE TO THE CONTRACTOR DURING CONSTRUCTION. THE COST OF FURNISHING THESE ITEMS SHALL BE INCLUDED IN THE BID ITEM "NOISE BARRIER DOUBLE-SIDED SOUND ABSORPTIVE N-70-132."

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

THE NOISE BARRIER IS TO BE DESIGNED USING THE PROPOSED BERM ELEVATION LINE AND ACOUSTICAL LINE SHOWN ON THE ELEVATION VIEW.

ALL NOISE BARRIERS SHALL BE DESIGNED IN ACCORDANCE WITH THE AASHTO LRFD BRIDGE DESIGN SPECIFICATION.

THE FOLLOWING DESIGN PRESSURES SHALL BE USED IN ACCORDANCE WITH THE SPECIAL PROVISIONS:
28.5 P.S.F. FOR GROUND MOUNTED BARRIERS

INCLUDE THE COST OF THE AESTHETIC SURFACE TREATMENT, REVEALS, COATING OF STEEL POSTS, AND CONNECTIONS, AND COLORING/STAINING THE PANELS UNDER THE BID ITEM "NOISE BARRIER DOUBLE-SIDED SOUND ABSORPTIVE N-70-132."

LIST OF DRAWINGS

1. GENERAL PLAN AND ELEVATION
2. CONSTRUCTION DETAILS 1
3. CONSTRUCTION DETAILS 2
4. AESTHETIC DETAILS
5. SUBSURFACE EXPLORATION

PI NO.	PI STA.	WALL STA.	X	Y
PI 1	1274ASW+07.63, 122.95' RT.	1+99.41	821402.90	551915.40
PI 2	1275ASW+03.61, 117.47' RT.	2+94.11	821497.60	551914.70
PI 3	1276ASW+03.43, 108.83' RT.	3+92.92	821596.40	551915.70
PI 4	1277ASW+03.26, 99.29' RT.	4+92.32	821695.80	551916.40
PI 5	1278ASW+03.42, 94.18' RT	5+92.60	821796.00	551912.30
PI 6	1279ASW+03.60, 90.46' RT.	6+92.85	821896.10	551906.80
PI 7	1280ASW+19.60, 81.94' RT.	8+09.17	822012.40	551904.63
PI 8	1281ASW+04.31, 86.86' RT.	8+88.99	822090.90	551890.20

NE REGION CONTACT - SCOTT EBEL (920) 492-5676
BUREAU OF STRUCTURES CONTACT - WILLIAM DREHER (608) 266-8489
CONSULTANT CONTACT - MICHAEL ARNOLD (414) 944-6142

WISCONSIN
MICHAEL J. ARNOLD
E-41717
GREENDALE
WI
PROFESSIONAL ENGINEER
01-30-2017

NO.	DATE	REVISION	BY

AECOM
1555 N RiverCenter Dr.
Suite 214
Milwaukee, WI 53212
(414) 944-6080

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

ACCEPTED William C. Dreher SDR 04/05/17
CHIEF STRUCTURES DESIGN ENGINEER — DATE

STRUCTURE N-70-132

USH :0 EB/STH 441 NB; RAMP ASW

COUNTY	TOWN/~~CITY/VILLAGE~~
WINNEBAGO	MENASHA

DESIGN SPEC.
AASHTO LRFD BRIDGE DESIGN SPECIFICATIONS

DESIGNED BY	DESIGN CK'D.	DRAWN BY	PLANS CK'D.
CEB	MJA	CEB	MJA

GENERAL PLAN AND ELEVATION

SHEET 1 OF 5
495

FILE= \\S1102K306\Projects\Transportation\US 10 WIS 441\CADD\sheets\Structures\N-70-132\sheets\01-N-70-132_gp.dgn
DATE: 1/24/2017
I.D.

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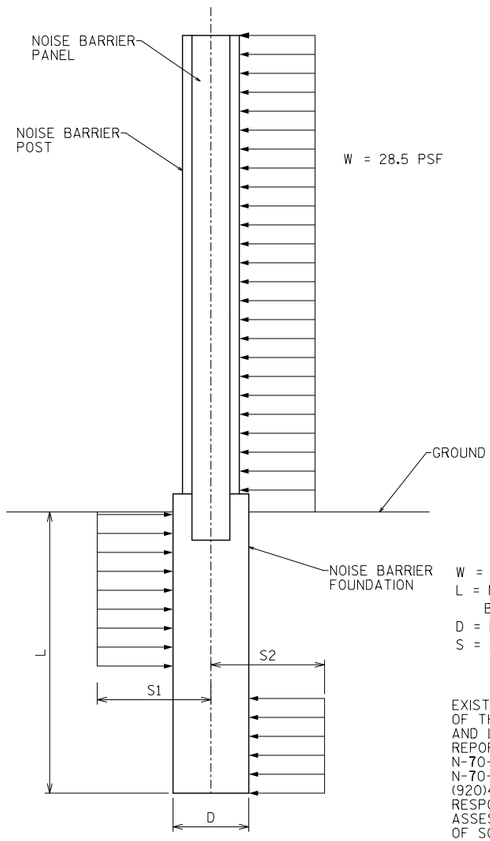
STATE PROJECT NUMBER
1517-75-72

BENCHMARK

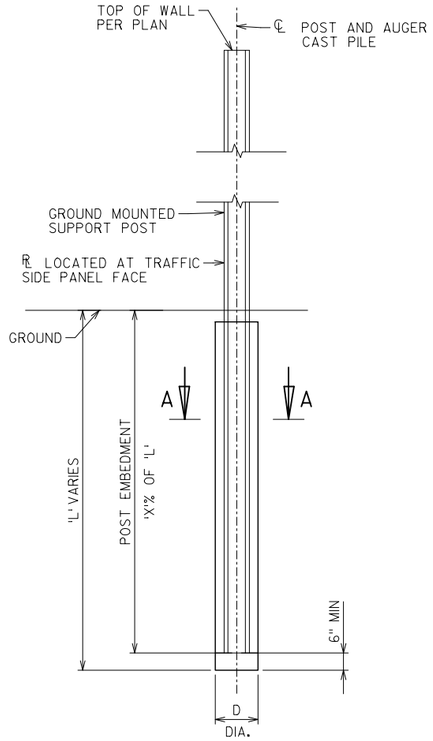
NO.	DESCRIPTION	ELEVATION
MW20	ON TRANSFORMER PAD SOUTH OF APPLETON ROAD SW RAMP.	784.52



W = DESIGN WIND LOAD
L = NOISE BARRIER FOUNDATION DEPTH BELOW EXISTING GROUND
D = NOISE BARRIER FOUNDATION DIAMETER
S = ALLOWABLE SOIL PRESSURE

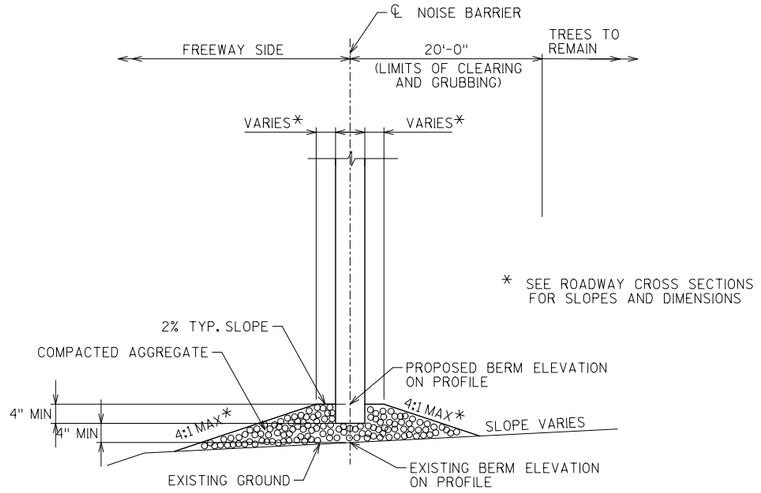
EXISTING BORING LOGS AND LAB DATA IN THE VICINITY OF THE PROPOSED NOISE BARRIERS HAVE BEEN COMPILED AND INCLUDED IN THE DOCUMENT "SUBSURFACE INVESTIGATION REPORT FOR CORRIDOR WIDE NOISE WALL STRUCTURES (N-70-100, N-70-101, N-70-110, N-70-121, N-70-130, N-70-131, N-70-132, N-70-140, N-08-01 & N-08-02)". CONTACT SCOTT EBEL AT (920)492-5646 TO OBTAIN A COPY. THE CONTRACTORS ARE RESPONSIBLE TO REVIEW THE DATA IN THIS REPORT TO HELP ASSESS FIELD DRILLING CONDITIONS AND TO SUPPORT DEVELOPMENT OF SOIL DESIGN PARAMETERS FOR THE NOISE BARRIER FOUNDATION DESIGN.

GROUND MOUNTED NOISE BARRIER LOADING



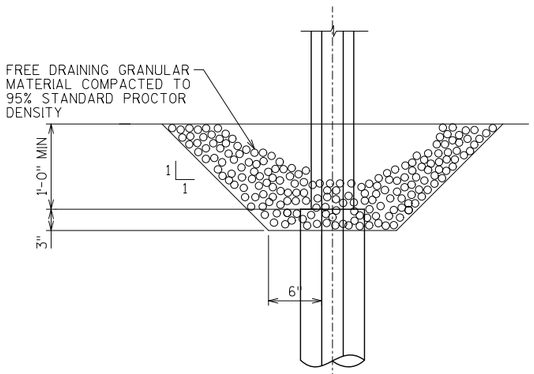
SECTION THRU GROUND MOUNTED VERTICAL SUPPORT POST & AUGER CAST PILE

TYPICAL AT EACH POST LOCATION
(NOT TO SCALE)
('D', 'L', AND 'X' TO BE DETERMINED BY SUPPLIER)



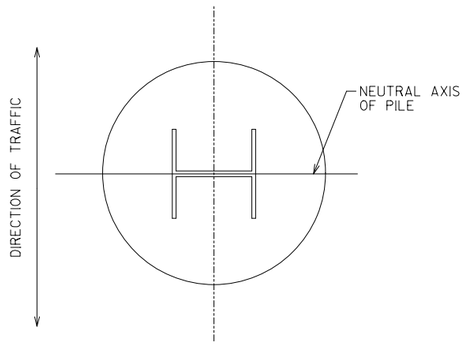
CLEARING/GRUBBING AND FINISHING SLOPE

(NOT TO SCALE)



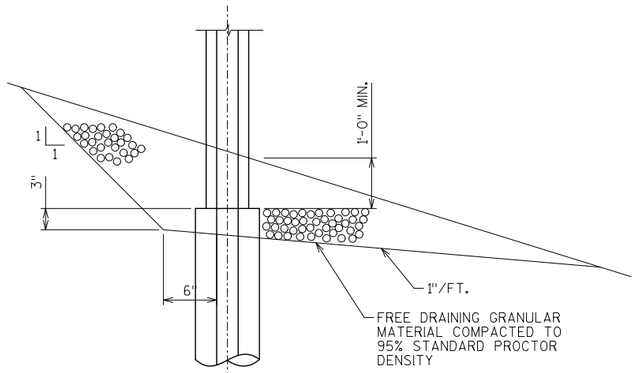
POST DRAINAGE BACKFILL DETAIL (LEVELED GRADE)

(NOT TO SCALE)



SECTION A-A

(NOT TO SCALE)



POST DRAINAGE BACKFILL DETAIL (SLOPED GRADE)

(NOT TO SCALE)

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

STRUCTURE N-70-132

DRAWN BY	CEB	PLANS CK'D.	MJA

CONSTRUCTION DETAILS 1

SHEET 2 OF 5
496

DATE: 1/24/2017
I.D.

FILE= \\S1102K306\Projects\Transportation\US 10 WIS 441\CADD\sheets\Structures\N-70-132\sheets\02-N-70-132_cd1.dgn

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STATE PROJECT NUMBER
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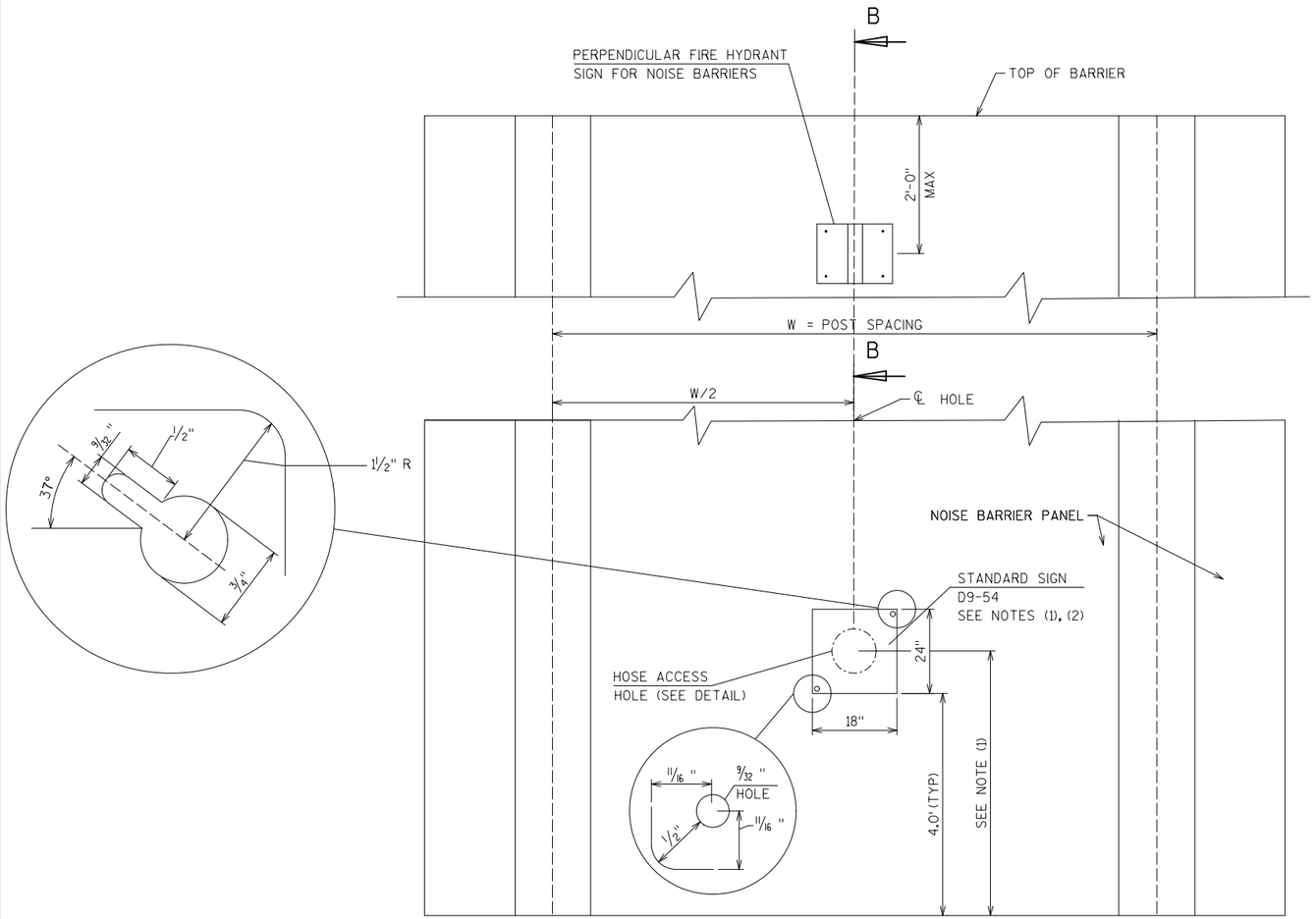
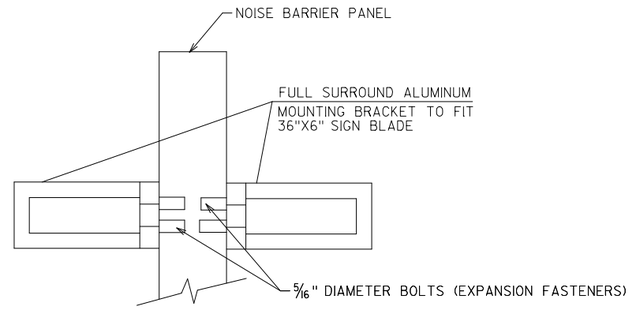


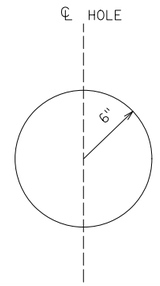
FIRE HYDRANT LOCATION/HOSE ACCESS DETAIL

STA. 4+29.30



SECTION B-B

PERPENDICULAR FIRE HYDRANT SIGN FOR NOISE BARRIER



HOSE ACCESS HOLE DETAIL

NOTES:

1. STANDARD SIGNS D9-54 WILL BE FURNISHED BY THE CONTRACTOR. SEE PLAN.
2. TWO STANDARD SIGNS D9-54 TO BE FURNISHED PER LOCATION. ONE SIGN SHALL BE INSTALLED ON EACH SIDE OF THE BARRIER.
3. FIRE HYDRANT SIGN BLADE SHALL BE ATTACHED TO THE NOISE BARRIER PANEL NEAR THE TOP OF THE BARRIER. SEE DETAIL ABOVE. PAID FOR UNDER BID ITEM "NOISE BARRIER DOUBLE-SIDED SOUND ABSORPTIVE N-70-132".
4. MOUNTING BOLTS, BRACKETS, AND EXPANSION FASTENERS FOR ALL SIGNS ATTACHED TO NOISE BARRIER ARE INCIDENTAL TO THE BID ITEM "NOISE BARRIER DOUBLE-SIDED SOUND ABSORPTIVE N-70-132".
5. TIP ACCESS HOLE SLIGHTLY TOWARD HIGHWAY SIDE OF WALL TO PROVIDE DRAINAGE.

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

STRUCTURE N-70-132

DRAWN BY CEB | PLANS CK'D. MJA

CONSTRUCTION DETAILS 2

SHEET 3 OF 5
497

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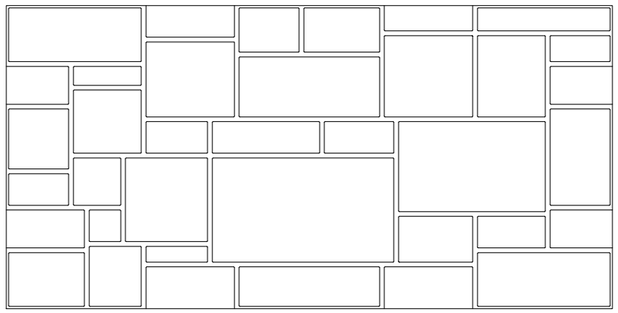
CONCRETE STAINING SCHEDULE

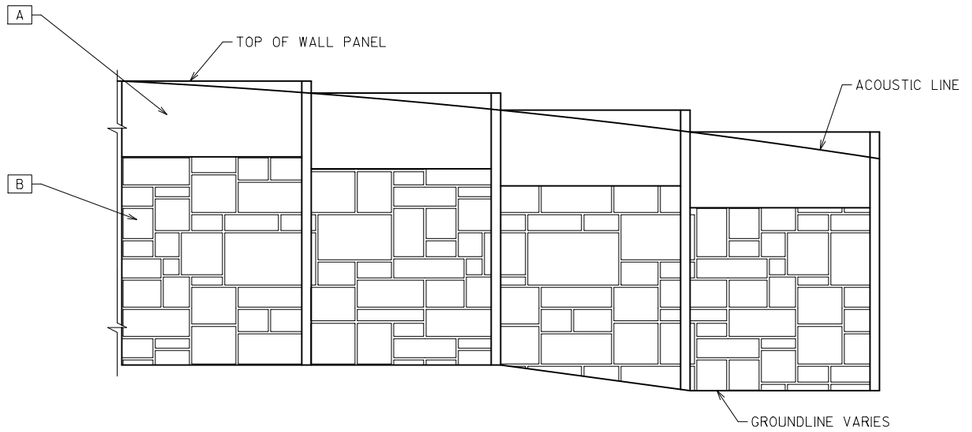
MARK	COLOR	FED. COLOR NO.	LOCATION
A	HOPSACK	SW 6109	UPPER PANELS, STEEL SUPPORTS AND BRACKETS
B	LATTE	33522	LOWER PANELS

NOTE: 1. FINISH ON COLORS IS FLAT (LUSTERLESS)



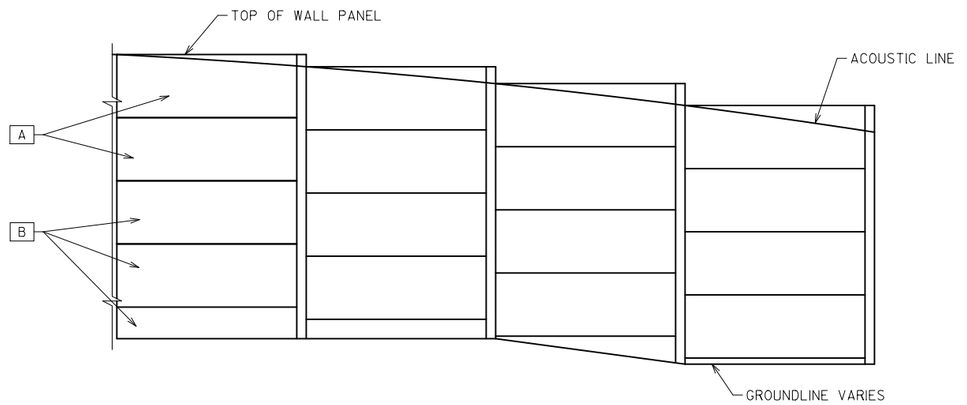
ASHLAR

MAXIMUM RELIEF: 1⅝"
AVERAGE RELIEF: 1¼"
STONE SIZE: H: 3" - 17"
W: 5"-29"



ARCHITECTURAL DETAILS

(TYPICAL ON RESIDENTIAL SIDE)



ARCHITECTURAL DETAILS

(TYPICAL ON ROADWAY SIDE)

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NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

STRUCTURE N-70-132

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AESTHETIC DETAILS

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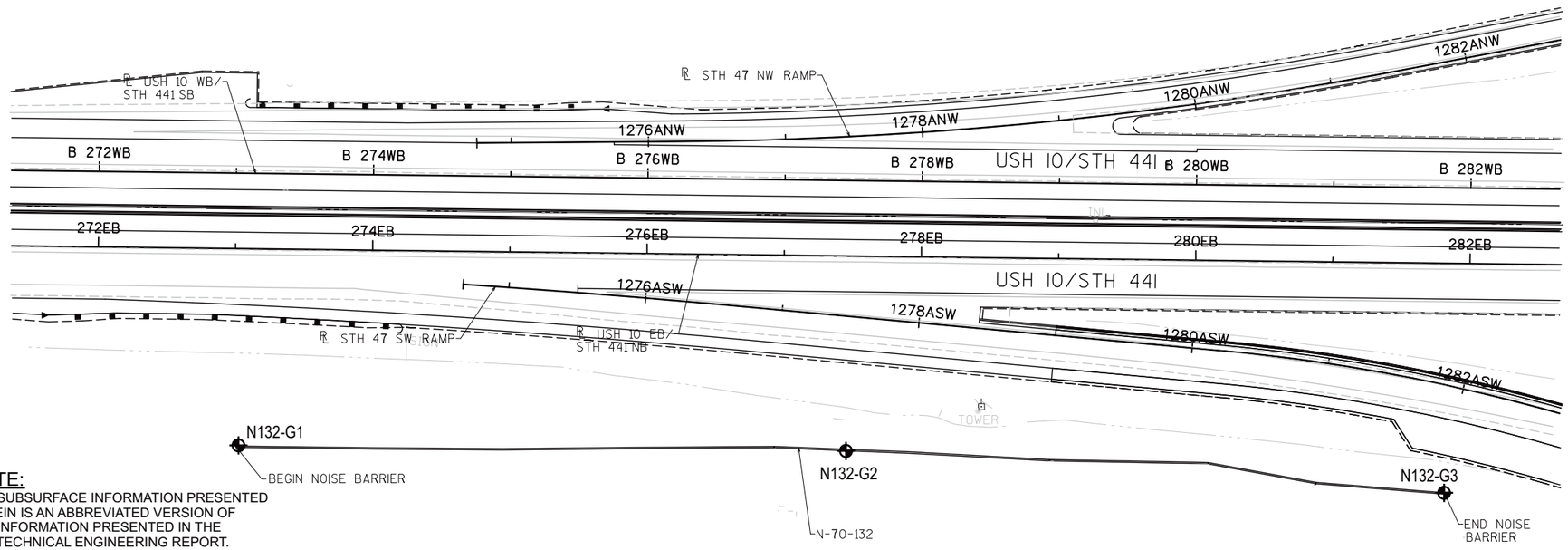
I.D.

FILE= \\S1102K306\Projects\Transportation\US 10 WIS 441\CADD\sheets\Structures\N-70-132\sheets\04-N-70-132_ae.dgn



NOTE:

THE SUBSURFACE INFORMATION PRESENTED HEREIN IS AN ABBREVIATED VERSION OF THE INFORMATION PRESENTED IN THE GEOTECHNICAL ENGINEERING REPORT. REVIEW THE APPROPRIATE GEOTECHNICAL REPORT AND SOIL BORING LOGS FOR ADDITIONAL SUBSURFACE INFORMATION.

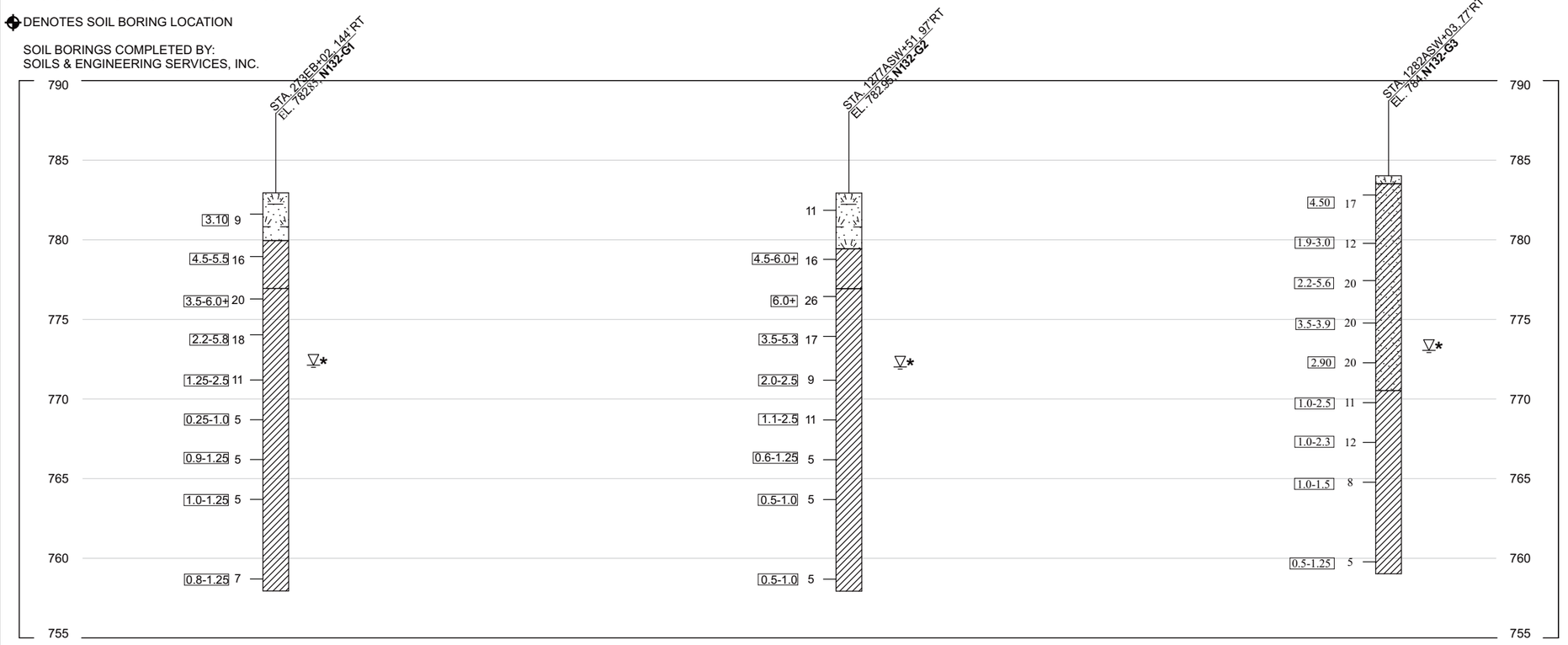
BORING STATIONS AND OFFSETS ARE BASED ON R/L USH 10 EB AND STH 47 ASW

DENOTES SOIL BORING LOCATION

SOIL BORINGS COMPLETED BY:
SOILS & ENGINEERING SERVICES, INC.

SOIL BORING TAKEN:

07.21.2014 - BORING N132-G1
07.21.2014 - BORING N132-G2
07.23.2014 - BORING N132-G3



NOTE: ▽*-WATER LEVEL ASSUMED FROM SAMPLE CONDITION

STATE PROJECT NUMBER

1517-75-72

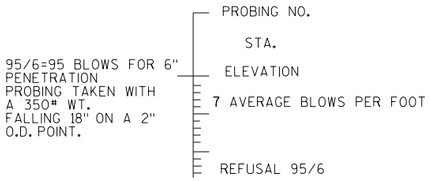
ABBREVIATIONS

F — FINE M — MEDIUM C — COARSE
WS — WEATHERED SO — SOUND

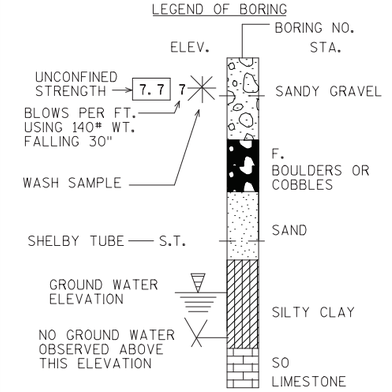
MATERIAL SYMBOLS

TOPSOIL SILT FAT CLAY
SAND PEAT DOLOMITE
GRAVEL CLAY FILL

LEGEND OF PROBING



LEGEND OF BORING



UNLESS OTHERWISE SPECIFIED, THE BLOWS PER FOOT AT THE LOCATIONS INDICATED ARE BASED ON DRIVING A 2" O.D. X 1.4" I.D. SPLIT SPOON SAMPLER WITH A 140# HAMMER HAVING A FREE FALL OF 30". THE BLOW COUNT IS TAKEN IN UNDISTURBED SOIL IMMEDIATELY BELOW A CASED OR OPEN HOLE ELIMINATING SIDE FRICTION ON THE DRIVE PIPE.

SUBSURFACE EXPLORATION FOR FOUNDATION DESIGN AND BIDDERS INFORMATION

TO OBTAIN RELATIVE DATA CONCERNING THE CHARACTER OF MATERIAL IN AND UPON WHICH THE FOUNDATION MIGHT BE BUILT, BORINGS AND/OR SOUNDINGS WERE MADE AT POINTS APPROXIMATELY AS INDICATED ON THIS DRAWING. THE DATA PRESENTED HEREIN REPRESENTS THE FINDINGS OF THE SUBSURFACE EXPLORATIONS MADE. HOWEVER, BECAUSE THE DEPTHS INVESTIGATED ARE LIMITED AND THE AREA OF THE BORINGS AND/OR SOUNDINGS IS VERY SMALL IN RELATION TO THE ENTIRE AREA, THE WISCONSIN DEPARTMENT OF TRANSPORTATION DOES NOT WARRANT CONDITIONS BELOW THE DEPTHS INVESTIGATED OR THAT THE CLASSIFICATION OF MATERIAL ENCOUNTERED IN THESE INVESTIGATIONS IS NECESSARILY TYPICAL OF THE ENTIRE SITE.

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
STRUCTURES DESIGN SECTION

STRUCTURE N-70-132

DRAWN BY RH PLANS CK'D. NS

SUBSURFACE EXPLORATION

SHEET 5 OF 5
499

SCALE 1"=100'

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STATE PROJECT NUMBER

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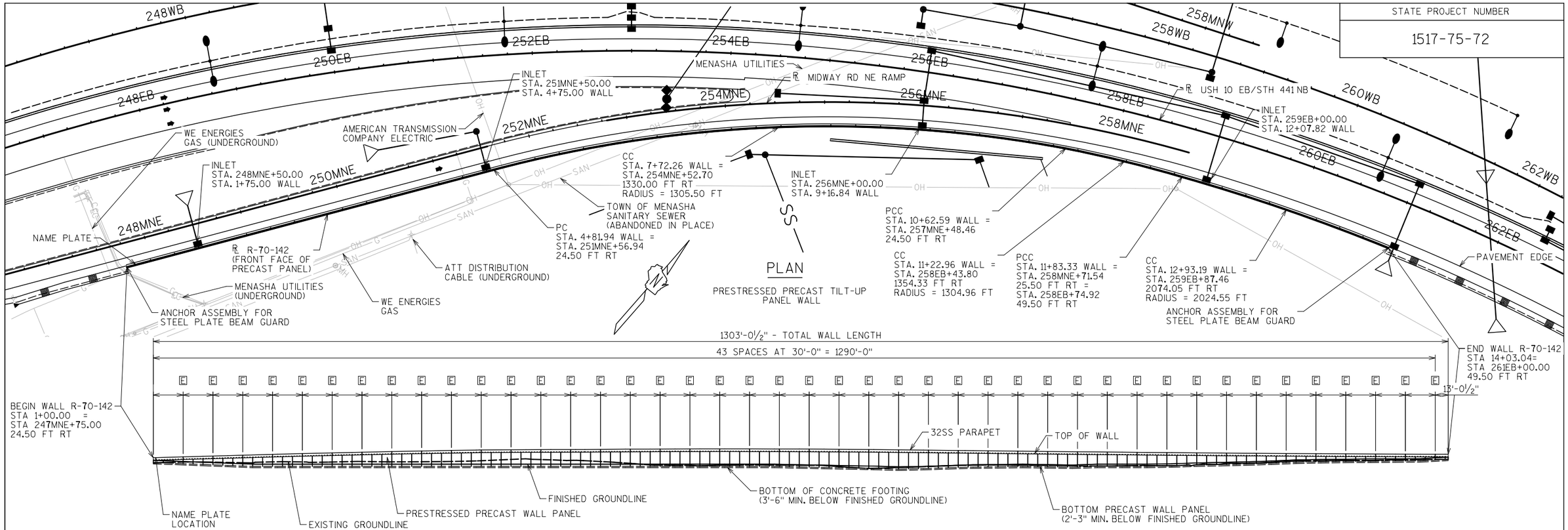

ELEVATION

(LOOKING NORTHWEST AT FRONT FACE OF WALL)

GENERAL NOTES

DRAWINGS SHALL NOT BE SCALED.

ALL STATIONS AND DIMENSIONS ARE IN SURVEY FEET, ALL ELEVATIONS ARE IN FEET. ELEVATIONS ARE REFERENCED TO THE NGVD 29 DATUM.

BAR STEEL REINFORCEMENT SHALL BE EMBEDDED 2" CLEAR UNLESS SHOWN OR NOTED OTHERWISE.

ALL BAR STEEL SHALL BE EPOXY COATED.

THE CONTRACTOR SHALL PROVIDE COMPLETE DESIGN, PLANS, DETAILS, SPECIFICATIONS, AND SHOP DRAWINGS FOR THE RETAINING WALL AND MSE WALL REINFORCEMENT 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 WIRE FACED MECHANICALLY STABILIZED EARTH LRFD/QMP."

PLANS, ELEVATIONS 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 IN THE GEOMETRY TABLE.

DESIGN FOR RETAINING WALL TO PROVIDE FOR A FINISHED GRADE SLOPE BEHIND THE WALL AS SHOWN IN THE ROADWAY CROSS SECTIONS.

DESIGN RETAINING WALL FOR A LIVE LOAD SURCHARGE OF 240 PSF.

DESIGN RETAINING WALL FOR A WIND SUCTION LOAD OF 20 PSF ON THE PRECAST PANEL.

THE FIRST DIGIT OF A THREE DIGIT BAR NO. AND THE FIRST TWO DIGITS OF A FOUR DIGIT BAR NO. SIGNIFIES THE BAR SIZE.

JOINT FILLER SHALL CONFORM TO THE REQUIREMENTS OF A.A.S.H.T.O. DESIGNATION M 153, TYPE I, II OR III OR A.A.S.H.T.O. DESIGNATION M 213.

THE QUANTITY OF CONCRETE MASONRY FOR THE CAST-IN-PLACE ANCHOR SLAB AND PARAPETS IS PAID FOR UNDER THE ITEM "CONCRETE MASONRY RETAINING WALLS."

THE CONTRACTOR SHALL CONTACT THE UTILITIES AND DIGGERS HOTLINE TO LOCATE AND FIELD VERIFY UTILITIES. 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.

AT BEGINNING OF WALL, FILL CAVITY BETWEEN WIRE-FACED WALL AND PRECAST PANEL WITH A COLUMN OF CONCRETE 1'-6" WIDE. PAYMENT FOR THIS WORK IS INCLUDED WITH BID ITEM FOR "WALL WIRE FACED MECHANICALLY STABILIZED EARTH LRFD/QMP."

THE COST OF FURNISHING AND PLACING THE FOOTING UNDER THE PRESTRESSED PRECAST WALL PANELS IS INCLUDED IN THE BID ITEM "PRESTRESSED PRECAST CONCRETE WALL PANEL."

PRESTRESSED PRECAST PANELS SHALL BE 10'-0" WIDE EXCEPT FOR END PANELS. THE MAXIMUM WIDTH OF END PANELS IS 10'-0". ALL PANELS SHALL BE FABRICATED WITHOUT CURVATURE. ALL PANELS SHALL BE PLACED SO THAT THEY ARE TANGENT TO THE WALL ALIGNMENT AT THE PANEL CENTER. DEVIATION OF THE PANEL FROM THE CURVED ALIGNMENT SHALL BE TAKEN UP IN THE COPING OVERHANG.

THE MAXIMUM VALUE OF THE ANGLE OF INTERNAL FRICTION OF THE WALL BACKFILL MATERIAL IN THE REINFORCED ZONE SHALL BE ASSUMED TO BE 30° WITHOUT CERTIFIED TEST VALUES.

BEVEL EXPOSED EDGES OF CONCRETE ¾" UNLESS NOTED OTHERWISE.

APPLY PIGMENTED SURFACE SEALER TO THE TOP AND INSIDE FACES OF PARAPETS.

PROTECTIVE SURFACE TREATMENT TO BE APPLIED TO THE TRAFFIC SIDE OF THE EXPOSED ANCHOR SLAB SURFACE.

ALL STATIONS ARE ALONG THE ℄ FOR R-70-142 ALONG THE FRONT FACE OF WALL UNLESS SHOWN OTHERWISE.

HOT DIP GALVANIZE ALL STRUCTURAL STEEL IN ACCORDANCE WITH ASTM A123.

THE SOILS AT THE BASE OF THE WALL SHALL BE REVIEWED BY THE NORTHEAST REGION SOILS ENGINEER TO DETERMINE IF THE SOILS HAVE ADEQUATE STRENGTH TO SUPPORT THE MSE WALL.

STRIP DRAINS WILL BE INSTALLED BETWEEN STA. 252EB+50.00 TO 260EB+00.00. AN ESTIMATED MINIMUM WAIT PERIOD BETWEEN PLACEMENT OF WALL BACKFILL LIFTS AND INSTALLATION OF WALL PANEL FACING IS DEFINED IN THE SPECIAL PROVISIONS. SETTLEMENT MONITORING IS TO BE USED FOR MEASUREMENT OF ACTUAL SETTLEMENT. SEE ROADWAY PLANS AND SPECIAL PROVISIONS FOR WICK DRAIN AND SETTLEMENT MONITORING DETAILS.

THE EXISTING GROUND LINE IS THE UPPER LIMITS OF EXCAVATION FOR STRUCTURES.

OPTIONAL TRANSVERSE CONSTRUCTION JOINTS ARE PERMITTED IN THE FOOTING WITH A MINIMUM SPACING OF TWO PANEL WIDTHS. FOOTING JOINTS SHALL BE OFFSET A MINIMUM OF 1'-0" FROM WALL JOINTS. RUN BAR STEEL THRU FOOTING JOINTS.

DO NOT PERMIT CONCRETE OR FILL TO ACCUMULATE IN THE WALL CAVITY BETWEEN THE WIRE FACED MSE WALL AND PRECAST CONCRETE WALL PANEL.

THE VOLUME OF EARTHWORK REQUIRED TO INSTALL THE FOOTING, WIRE FACED WALL, MSE BACKFILL, AND SOIL REINFORCEMENT IS INCIDENTAL TO THE BID ITEM "WALL WIRE FACED MECHANICALLY STABILIZED EARTH LRFD/QMP".

QUANTITIES AND REINFORCEMENT DETAILS ARE BASED ON AN ASSUMED CONCRETE WALL PANEL THICKNESS OF 8" AND A PANEL EMBEDMENT OF 3". FOR PANEL THICKNESS OR PANEL EMBEDMENT DIFFERENT THAN THESE VALUES, THE CONTRACTOR SHALL VERIFY REINFORCEMENT BAR DETAILS AND QUANTITIES AND WILL BE RESPONSIBLE FOR ANY QUANTITY VARIATIONS.

LEGEND

E = EXPANSION JOINT

⬅ = DIRECTION OF TRAFFIC

LIST OF DRAWINGS

1. GENERAL PLAN AND ELEVATION
2. DESIGN DATA AND QUANTITIES
3. ALIGNMENTS AND PROFILES
4. WALL DETAILS 1
5. WALL DETAILS 2
6. WALL DETAILS 3
7. AESTHETIC DETAILS
8. SINGLE SLOPE PARAPET 32SS
9. ANCHOR SLAB AT INLET
10. SUBSURFACE EXPLORATION

WISCONSIN
MICHAEL J.
ARNOLD
E-41717
GREENDALE
PROFESSIONAL ENGINEER
02/09/2017

NE REGION CONTACT - SCOTT EBEL (920) 492-5676
BUREAU OF STRUCTURES CONTACT - WILLIAM DREHER (608) 266-8489
CONSULTANT CONTACT - MICHAEL ARNOLD (414) 944-6142

NO.	DATE	REVISION	BY

AECOM
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Milwaukee, WI 53212
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STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

ACCEPTED William C. Dreher SDR 02/22/17
CHIEF STRUCTURES DESIGN ENGINEER DATE

STRUCTURE R-70-142

CTH AP (MIDWAY RD.) INTERCHANGE, NE RAMP, RIGHT

COUNTY		~~TOWN~~/CITY/~~VILLAGE~~	
WINNEBAGO			MENASHA

DESIGN SPEC.
AASHTO LRFD BRIDGE DESIGN SPECIFICATIONS

DESIGNED BY	CEB	DESIGN CK'D.	MJA	DRAWN BY	CEB	PLANS CK'D.	MJA

GENERAL PLAN AND ELEVATION

SHEET 1 OF 10
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DATE: 2/9/2017
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STATE PROJECT NUMBER

1517-75-72

GEOMETRY TABLE

WALL STATION	STATION	ALIGNMENT	OFFSET TO R/L OF WALL	TOP OF WALL	FINISHED GRADE
1+00.00	247+75.00	MNE	24.50	774.85	774.79
1+25.00	248+00.00	MNE	24.50	775.55	773.85
1+50.00	248+25.00	MNE	24.50	776.24	772.90
1+75.00	248+50.00	MNE	24.50	776.94	771.95
2+00.00	248+75.00	MNE	24.50	777.63	771.00
2+25.00	249+00.00	MNE	24.50	778.32	771.00
2+50.00	249+25.00	MNE	24.50	778.98	771.00
2+75.00	249+50.00	MNE	24.50	779.60	771.00
3+00.00	249+75.00	MNE	24.50	780.18	771.00
3+25.00	250+00.00	MNE	24.50	780.72	771.00
3+50.00	250+25.00	MNE	24.50	781.23	771.00
3+75.00	250+50.00	MNE	24.50	781.70	771.00
4+00.00	250+75.00	MNE	24.50	782.13	771.00
4+25.00	251+00.00	MNE	24.50	782.53	771.00
4+28.27	251+03.27	MNE	24.50	782.57	771.00
4+50.00	251+25.00	MNE	24.50	782.73	771.00
4+75.00	251+50.00	MNE	24.50	782.87	771.00
4+81.94	251+56.94	MNE	24.50	782.90	771.00
5+00.00	251+75.34	MNE	24.50	782.98	771.00
5+25.00	252+00.81	MNE	24.50	783.05	771.00
5+34.29	252+10.27	MNE	24.50	783.07	771.00
5+50.00	252+26.28	MNE	24.50	783.20	771.00
5+75.00	252+51.75	MNE	24.50	783.37	771.00
6+00.00	252+77.22	MNE	24.50	783.51	771.00
6+25.00	253+02.69	MNE	24.50	783.61	771.00
6+50.00	253+28.15	MNE	24.50	783.67	771.00
6+75.00	253+53.62	MNE	24.50	783.69	771.00
7+00.00	253+79.09	MNE	24.50	783.67	771.00
7+25.00	254+04.56	MNE	24.50	783.61	770.93
7+50.00	254+30.03	MNE	24.50	783.52	770.43
7+75.00	254+55.50	MNE	24.50	783.38	769.95
8+00.00	254+80.97	MNE	24.50	783.21	769.45
8+25.00	255+06.44	MNE	24.50	783.00	768.96
8+50.00	255+31.91	MNE	24.50	782.76	768.28
8+75.00	255+57.38	MNE	24.50	782.48	768.72
9+00.00	255+82.85	MNE	24.50	782.21	769.55
9+16.84	256+00.00	MNE	24.50	782.03	770.10
9+25.00	256+08.32	MNE	24.50	781.94	770.36
9+50.00	256+33.78	MNE	24.50	781.67	770.63
9+75.00	256+59.25	MNE	24.50	781.39	770.92
10+00.00	256+84.72	MNE	24.50	781.12	770.54
10+25.00	257+10.19	MNE	24.50	780.85	770.16
10+50.00	257+35.66	MNE	24.50	780.60	771.00
10+62.59	257+48.46	MNE	24.50	780.48	771.00
10+75.00	257+61.13	MNE	24.60	780.36	771.00
11+00.00	257+86.60	MNE	24.81	780.13	771.00
11+25.00	258+12.08	MNE	25.02	779.92	771.44
11+50.00	258+37.56	MNE	25.22	779.71	772.21
11+75.00	258+63.04	MNE	25.43	779.50	772.82
11+83.33	258+71.54	MNE	25.50	779.44	772.99
11+83.33	258+74.92	EB	49.50	779.44	772.99
12+00.00	258+91.99	EB	49.50	779.31	773.33
12+07.82	259+00.00	EB	49.50	779.25	773.60
12+25.00	259+17.60	EB	49.50	779.13	774.19
12+50.00	259+43.21	EB	49.50	778.96	775.21
12+75.00	259+68.83	EB	49.50	778.81	775.68
13+00.00	259+94.44	EB	49.50	778.68	775.94
13+25.00	260+20.05	EB	49.50	778.55	776.20
13+50.00	260+45.66	EB	49.50	778.44	776.45
13+75.00	260+71.27	EB	49.50	778.34	776.50
14+00.00	260+96.88	EB	49.50	778.26	777.91
14+03.04	261+00.00	EB	49.50	778.25	778.08

TOTAL ESTIMATED QUANTITIES

BID ITEM #	BID ITEM	UNIT	TOTAL
502.3200	PROTECTIVE SURFACE TREATMENT	SY	1,125
502.3210	PIGMENTED SURFACE SEALER	SY	555
504.0500	CONCRETE MASONRY RETAINING WALLS	CY	678
505.0600	BAR STEEL REINFORCEMENT HS COATED STRUCTURES	LB	71,340
516.0500	RUBBERIZED MEMBRANE WATERPROOFING	SY	56
517.1010.S	CONCRETE STAINING R-70-142	SF	16,785
517.1050.S	ARCHITECTURAL SURFACE TREATMENT R-70-142	SF	12,115
612.0406	PIPE UNDERDRAIN WRAPPED 6-INCH	LF	1,330
614.0150	ANCHOR ASSEMBLIES FOR STEEL PLATE BEAM GUARD	EACH	2
SPV.0165.851	PRESTRESSED PRECAST CONCRETE WALL PANEL	SF	12,005
SPV.0165.853	WALL WIRE FACED MECHANICALLY STABILIZED EARTH LRFD/QMP	SF	12,005
	NON BID ITEMS		
	FILLER	SIZE	3/4" & 1"
	NAME PLATE	EACH	1
	EXPANDED POLYSTYRENE	SIZE	1"

WALL EXTERNAL AND OVERALL STABILITY EVALUATION

WALL DIMENSIONS				
MAX. WALL HEIGHT [1] (FEET)	12.1	16.6	18.0	12.5
MAX. EXPOSED WALL HEIGHT (FEET)	8.6	13.1	14.5	9.1
MIN. LENGTH OF REINFORCEMENT [2] (FEET)	10.0	18.0	24.0	17.0
RATIO OF REIN./WALL HEIGHT	0.8	1.1	1.3	1.4
DESIGN SLOPE ANGLE AT FRONT (DEGREE)	14 (1:4)	14 (1:4)	2.3 (4%)	2.3 (4%)
DESIGN SLOPE ANGLE AT BACK (DEGREE)	2.3 (4%)	3.4 (6%)	3.4 (6%)	3.4 (6%)
WALL SECTION FOR ANALYSIS R142 REF. LINE (MNE RAMP REF. LINE)	2+75 (249MNE+50)	7+50 (254MNE+30)	8+50 (255MNE+32)	11+00 (257MNE+87)
APPLICABLE WALL STATION RANGE	1+00 TO 2+70	2+75 TO 7+25	7+25 TO 11+00	11+00 TO 14+03
APPLIED BORING LOG	R142-G1	R142-G2	R142-G3	R142-G4
CAPACITY TO DEMAND RATIO [3] (>= 1.0) AND FACTORED BEARING RESISTANCE [3] (PSF)				
GLOBAL STABILITY	1.1	1.2	1.2	1.3
ECCENTRICITY	1.3	2.5	3.9	3.6
SLIDING	1.2	1.7	2.1	2.0
BEARING CAPACITY	1.1*	1.0*	1.0*	1.0*
FACTORED BEARING RESISTANCE (PSF)	4,425	4,161	3,975	3,000

NOTES
1. THE WALL HEIGHT INCLUDES AN EMBEDMENT OF 3.5 FEET
2. THE LENGTH OF REINFORCEMENT SHOULD BE EQUAL TO OR GREATER THAN THE MINIMUM LENGTH (8 FEET) REQUIRED BY WISDOT
3. SELECTION OF THE LOWER VALUE BETWEEN DRAINED AND UNDRAINED ANALYSIS RESULTS
* CONTROLLING DESIGN ISSUE

THE FOLLOWING ASSUMPTIONS ARE ALSO INCLUDED IN THE ANALYSIS:

1. THE SLOPE IN FRONT OF THE WALL VARIES FROM HORIZONTAL / 4.0H:1.0V.
2. THE SLOPE BEHIND THE WALL VARIES FROM 2% TO 6%.
3. THE GRANULAR BACKFILL IS FREE DRAINING AND IS ASSUMED NOT TO BECOME SATURATED.
4. THE WALL STABILITY CHECK INCLUDES A SURCHARGE LOAD OF 240 PSF TO MODEL LIVE LOAD FROM TRAFFIC.
5. AN ADDITIONAL SURCHARGE LOAD OF SLAB ANCHOR (2 FEET IN THICKNESS) IS ALSO INCLUDED IN THE DESIGN.
6. GLOBAL STABILITY FACTOR OF SAFETY WAS DETERMINED BY THE COMPUTER PROGRAM G-STABL7 AND MODIFIED-BISHOP METHOD.
7. BEARING RESISTANCE BASED ON WISDOT LRFD BRIDGE DESIGN SPECIFICATIONS.

MINIMUM LENGTH APPLIES ONLY AT CORRESPONDING WALL STATIONS. FINAL DESIGN FOR INTERNAL STABILITY AND EXTERNAL SLIDING AND ECCENTRICITY AT OTHER WALL STATIONS IS THE RESPONSIBILITY OF THE CONTRACTOR'S WALL DESIGNER.

SOIL PARAMETERS

BORING R142-G1 (STATION NO. 248MNE+50)					
		UNDRAINED PARAMETERS		DRAINED PARAMETERS	
STRATUM LOCATION & SOIL DESCRIPTIONS	UNIT WEIGHT (PCF)	COHESION, C PSF	FRICTION ANGLE, ϕ DEGREES	COHESION, C' PSF	FRICTION ANGLE, ϕ' DEGREES
GRANULAR BACKFILL (WITHIN REINFORCING ZONE)	120	NA	NA	0	30
FILL BEHIND AND BELOW THE REINFORCING ZONE	125	1500	0	0	30
EXISTING CLAYEY FILL (EL. 764 TO EL. 767)	120	2000	0	0	28
UPPER LEAN/FAT CLAY (EL. 757 TO EL. 764)	120	2000	0	0	28
LOWER LEAN/FAT CLAY (EL. 741 TO EL. 757)	110	500	0	0	22
SILTY SAND (BELOW EL. 741)	125	0	33	0	33
ASSUMED DESIGN GROUNDWATER ELEVATION = 755.0					

BORING R142-G2 (STATION NO. 251MNE+50)					
		UNDRAINED PARAMETERS		DRAINED PARAMETERS	
STRATUM LOCATION & SOIL DESCRIPTIONS	UNIT WEIGHT (PCF)	COHESION, C PSF	FRICTION ANGLE, ϕ DEGREES	COHESION, C' PSF	FRICTION ANGLE, ϕ' DEGREES
GRANULAR BACKFILL (WITHIN REINFORCING ZONE)	120	NA	NA	0	30
FILL BEHIND AND BELOW THE REINFORCING ZONE	125	1500	0	0	30
EXISTING CLAYEY FILL (EL. 766 TO EL. 769)	125	4000	0	0	30
UPPER LEAN/FAT/SILTY CLAY (EL. 759 TO EL. 766)	120	3000	0	0	28
LOWER LEAN/FAT CLAY (EL. 740 TO EL. 759)	115	400	0	0	22
CLAYEY SAND (BELOW EL. 740)	120	0	30	0	30
ASSUMED DESIGN GROUNDWATER ELEVATION = 755.0					

BORING R142-G3 (STATION NO. 254MNE+50)					
		UNDRAINED PARAMETERS		DRAINED PARAMETERS	
STRATUM LOCATION & SOIL DESCRIPTIONS	UNIT WEIGHT (PCF)	COHESION, C PSF	FRICTION ANGLE, ϕ DEGREES	COHESION, C' PSF	FRICTION ANGLE, ϕ' DEGREES
GRANULAR BACKFILL (WITHIN REINFORCING ZONE)	120	NA	NA	0	30
FILL BEHIND AND BELOW THE REINFORCING ZONE	125	1500	0	0	28
UPPER LEAN/SILTY CLAY (EL. 761 TO EL. 769)	120	3000	0	0	28
LOWER LEAN/FAT CLAY (EL. 741 TO EL. 761)	120	600	0	0	22
SILTY SAND (BELOW EL. 741)	125	0	33	0	33
ASSUMED DESIGN GROUNDWATER ELEVATION = 755.0					

BORING R142-G4 (STATION NO. 258EB+00)					
		UNDRAINED PARAMETERS		DRAINED PARAMETERS	
STRATUM LOCATION & SOIL DESCRIPTIONS	UNIT WEIGHT (PCF)	COHESION, C PSF	FRICTION ANGLE, ϕ DEGREES	COHESION, C' PSF	FRICTION ANGLE, ϕ' DEGREES
GRANULAR BACKFILL (WITHIN REINFORCING ZONE)	120	NA	NA	0	30
FILL BEHIND AND BELOW THE REINFORCING ZONE	125	1500	0	0	30
UPPER LEAN/FAT CLAY (EL. 762 TO EL. 770)	120	2000	0	0	28
LOWER LEAN/FAT CLAY (EL. 741 TO EL. 762)	115	400	0	0	22
SANDY SILTY CLAY (EL. 738 TO EL. 741)	125	1500	0	0	30
GRAVEL WITH SAND (BELOW EL. 738)	135	0	34	0	34
ASSUMED DESIGN GROUNDWATER ELEVATION = 755.0					

NOTES:
NA = NOT APPLICABLE
PSF = POUNDS PER SQUARE FOOT
PCF = POUNDS PER CUBIC FOOT

MOIST UNIT WEIGHT AND SATURATED UNIT WEIGHT ASSUMED ABOVE AND BELOW THE ASSUMED GROUNDWATER TABLE, RESPECTIVELY.

DESIGN DATA

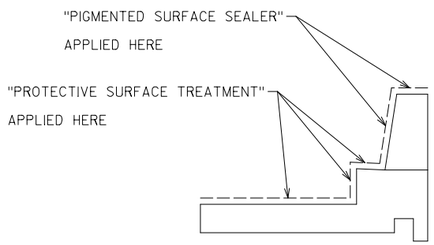
LIVE LOAD
LIVE LOAD SURCHARGE (ROADWAY).....240 PSF

WIND LOAD
WIND SUCTION LOAD ON PRECAST PANEL.....20 PSF

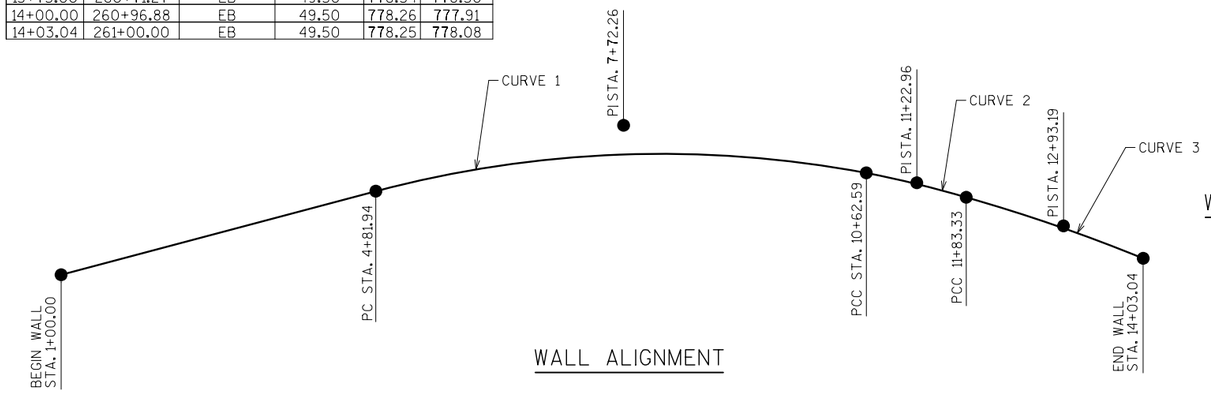
MATERIAL PROPERTIES
CONCRETE MASONRY RETAINING WALL...F'C = 3,500 PSI
PRECAST CONCRETE WALL PANELS.....F'C = 5,000 PSI
BAR STEEL REINFORCEMENT.....FY = 60,000 PSI
STRUCTURAL CARBON STEEL.....FY = 36,000 PSI

FOUNDATION DATA - MINIMUM FACTORED SOIL BEARING RESISTANCE
RETAINING WALL.....3000 PSF

NOTE: THE WALL HAS BEEN DESIGNED FOR TRAFFIC LOADING ONLY. IF DURING CONSTRUCTION HEAVY EQUIPMENT IS OPERATING IN CLOSE PROXIMITY TO THE WALL OR IF MATERIAL IS STOCKPILED NEAR THE WALL, THE SAFETY FACTOR FOR THIS WALL WILL SIGNIFICANTLY DECREASE.



SURFACE TREATMENT/SEALER LIMITS DETAIL



WALL ALIGNMENT

WALL CURVE 1 DATA

PC = 4+81.94
X = 819372.756
Y = 551434.372
PI = 7+72.26
X = 819548.365
Y = 551671.665
PCC = 10+62.59
X = 819808.983
Y = 551810.315
R = 1305.5'
L = 580.65'

WALL CURVE 2 DATA

PCC = 10+62.59
X = 819808.983
Y = 551810.315
PI = 11+22.96
X = 819862.554
Y = 551838.250
PCC = 11+83.33
X = 819918.477
Y = 551861.114
R = 1304.96'
L = 120.75'

WALL CURVE 3 DATA

PCC = 11+83.33
X = 819918.477
Y = 551861.114
PI = 12+93.19
X = 820019.913
Y = 551903.570
END WALL = 14+03.04
X = 820125.351
Y = 551934.790
R = 2024.55'
L = 219.71'

NO.	DATE	REVISION	BY

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DEPARTMENT OF TRANSPORTATION

STRUCTURE R-70-142

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DESIGN DATA AND QUANTITIES

SHEET 2 OF 10
501

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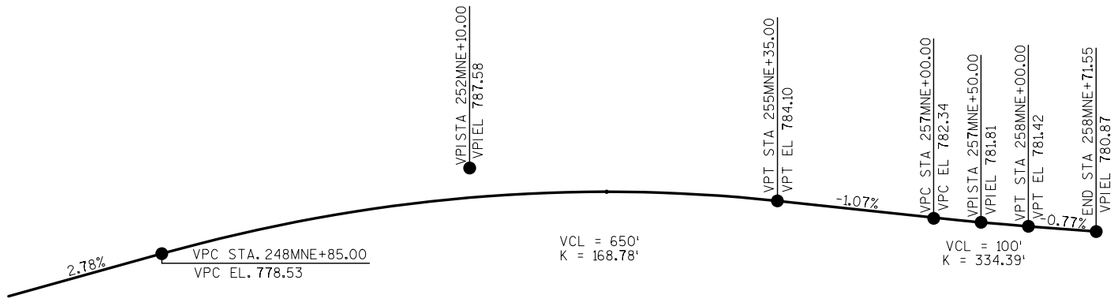
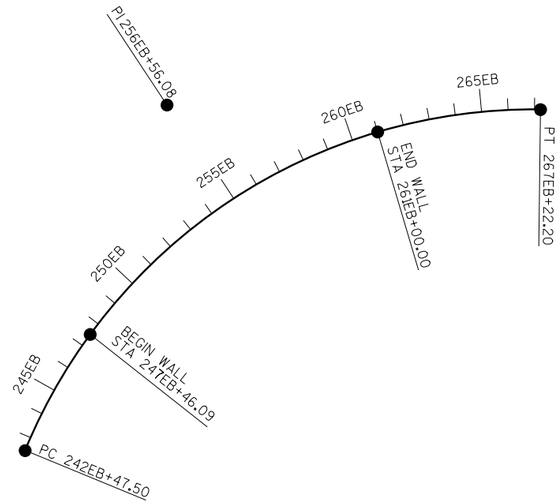
BENCHMARK

NO.	DESCRIPTION	ELEVATION
MW2	NW TAG BOLT HYD BETWEEN MISSION ST & EARL ST ON NORTH SIDE OF MIDWAY	766.56
MW3	PK NAIL SET IN TOP CURB JOINT (CP 1002) +/- 400' EAST OF RACINE RD & MIDWAY RD	759.72



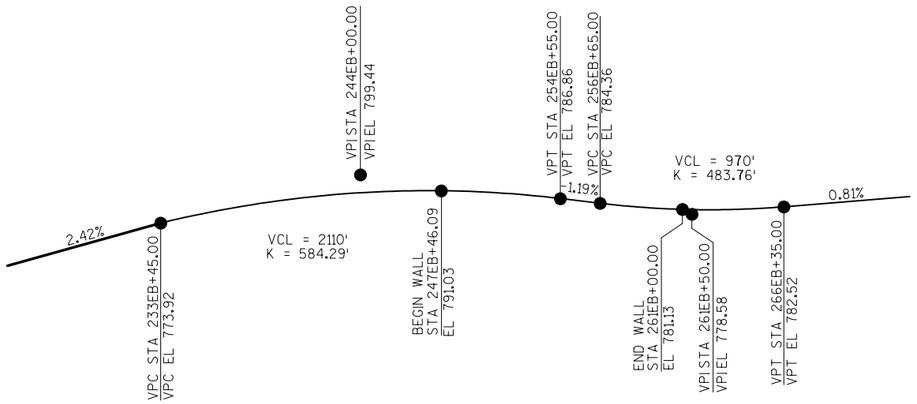
PROFILE GRADE LINE RAMP 'MNE'



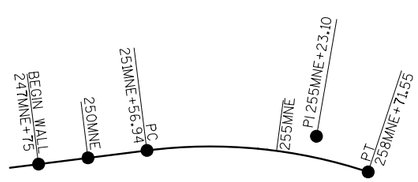
HORIZONTAL ALIGNMENT STH 441 NB/USH 10 EB

STH 441 NB/ USH 10 EB HORIZONTAL CURVE DATA

PC = 242EB+47.50
X = 818781.651
Y = 550781.575
PI = 256EB+56.08
X = 819316.813
Y = 552084.530
PT = 267EB+22.20
X = 820725.287
Y = 552067.445
R = 2074.00'
DELTA = 68°21'56"
D = 2°45'45"
L = 2474.71'



PROFILE GRADE LINE STH 441 NB/USH 10 EB



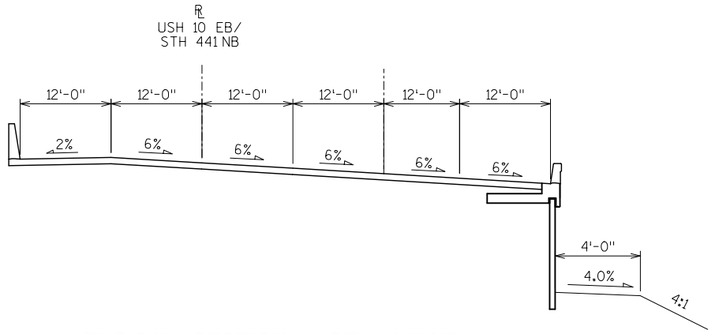
HORIZONTAL ALIGNMENT RAMP 'MNE'

MIDWAY NE RAMP HORIZONTAL CURVE DATA-1

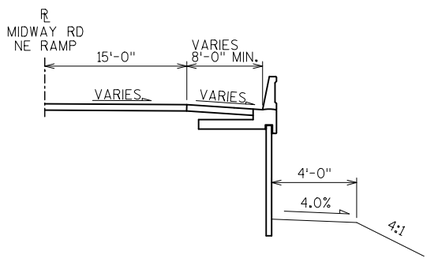
PC = 245MNE+35.64
X = 818987.430
Y = 550946.874
PI = 245MNE+70.75
X = 819004.292
Y = 550977.669
PT = 246MNE+05.75
X = 819025.177
Y = 551005.890
R = 515.00'
DELTA = 7°48'00"
D = 11°07'31"
L = 70.11'

MIDWAY NE RAMP HORIZONTAL CURVE DATA-2

PC = 251MNE+56.94
X = 819353.062
Y = 551448.947
PI = 255MNE+23.10
X = 819570.877
Y = 551743.271
PT = 258MNE+71.55
X = 819908.641
Y = 551884.641
R = 1330.00'
DELTA = 30°47'06"
D = 4°18'29"
L = 714.61'



TYPICAL SECTION - STH 441 NB



TYPICAL SECTION - MIDWAY RD MNE RAMP

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ALIGNMENTS AND PROFILES

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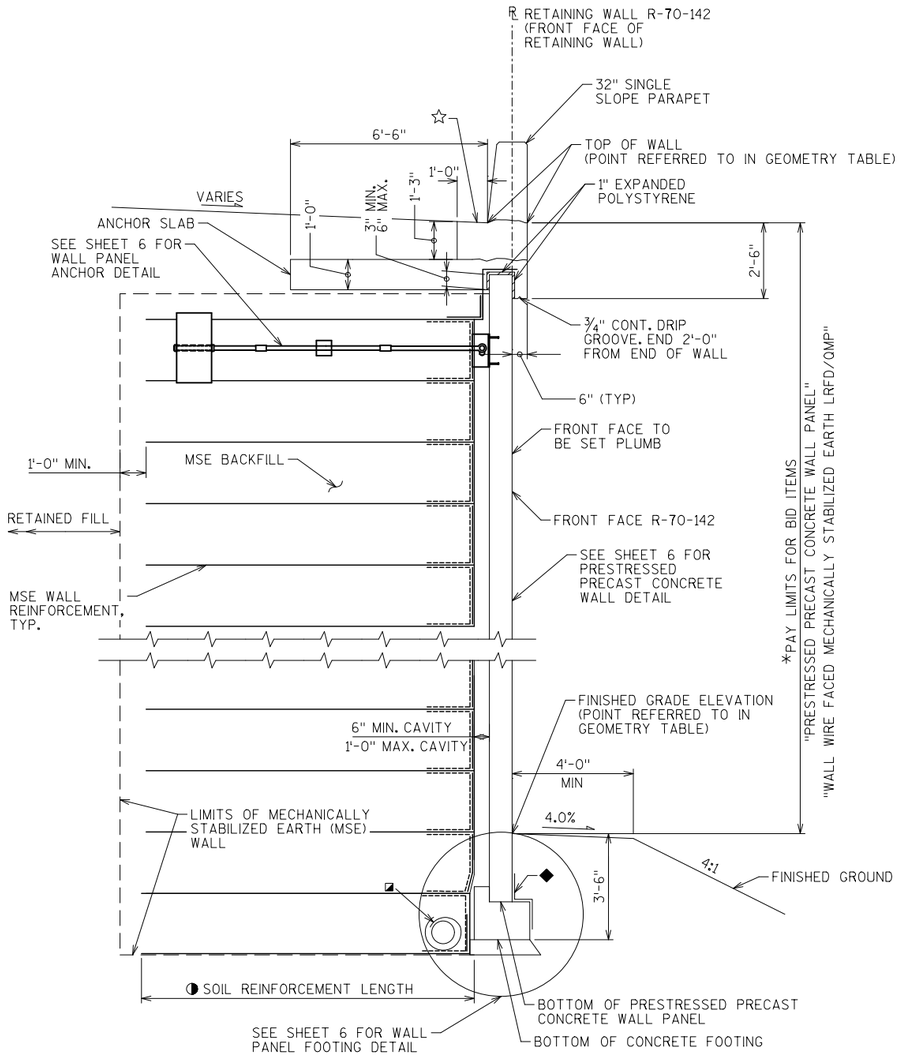


TYPICAL WALL SECTION

(PRESTRESSED PRECAST TILT-UP PANEL WALL)

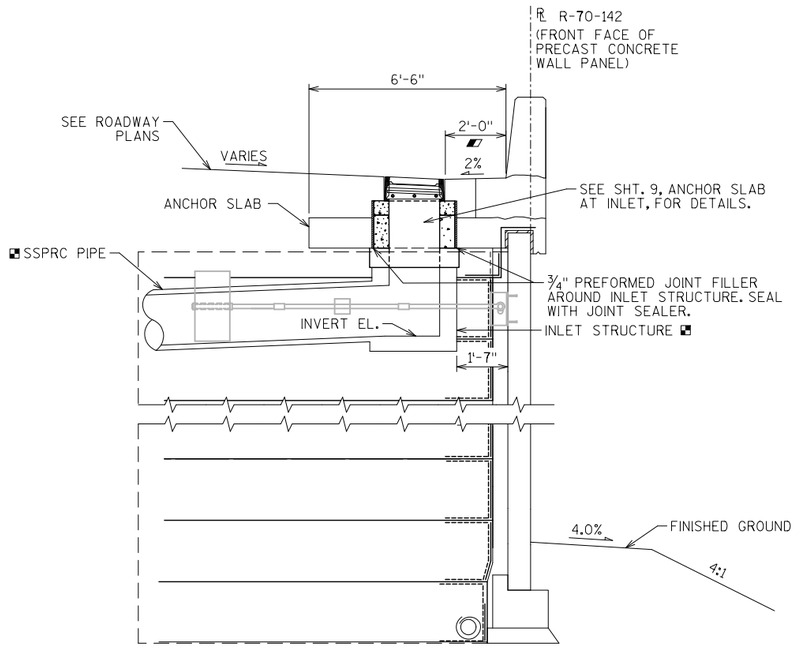
✳ THE PLAN QUANTITY FOR THE BID ITEM "WALL WIRE FACED MECHANICALLY STABILIZED EARTH LRFD/QMP" AND "PRESTRESSED PRECAST CONCRETE WALL PANEL" IS BASED ON A WALL HEIGHT MEASURED FROM THE FINISHED GRADE TO THE TOP OF THE WALL AS SHOWN. FOOTING CONCRETE AND REINFORCEMENT ARE TO BE INCLUDED IN THE BID ITEM "PRESTRESSED PRECAST CONCRETE WALL PANEL."

◑ SEE "WALL EXTERNAL AND OVERALL STABILITY EVALUATION" TABLE ON SHEET 2 FOR SOIL REINFORCEMENT LENGTH.

◪ PIPE UNDERDRAIN WRAPPED (6-INCH) SLOPE 0.5% MIN. TO SUITABLE DRAINAGE. ATTACH RODENT SHIELDS AT EXPOSED ENDS OF PIPE UNDERDRAIN. SEE RODENT SHIELD DETAIL.

◆ GEOTEXTILE FABRIC TYPE DF, 2'-0" WIDE BY LENGTH OF FOOTING, TO BE INCLUDED IN THE BID ITEM "PRESTRESSED PRECAST CONCRETE WALL PANEL."

☆ SLOPE TO MATCH ROADWAY

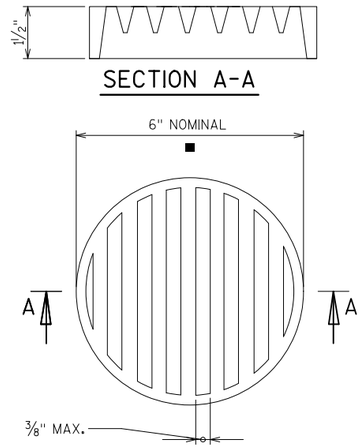


TYPICAL WALL SECTION AT INLET STRUCTURE

(SEE ROADWAY PLAN CONSTRUCTION DETAILS FOR ADDITIONAL INFORMATION)

◪ CONCRETE AND STEEL REQUIRED FOR INLET STRUCTURE AND OUTFALL PIPE ARE PAID FOR IN THE ROADWAY ITEMS. SEE STORM SEWER PLANS FOR DETAILS.

◩ TRANSITION PAN AND SLOPE OVER 10'-0" ON EACH SIDE OF THE INLET.



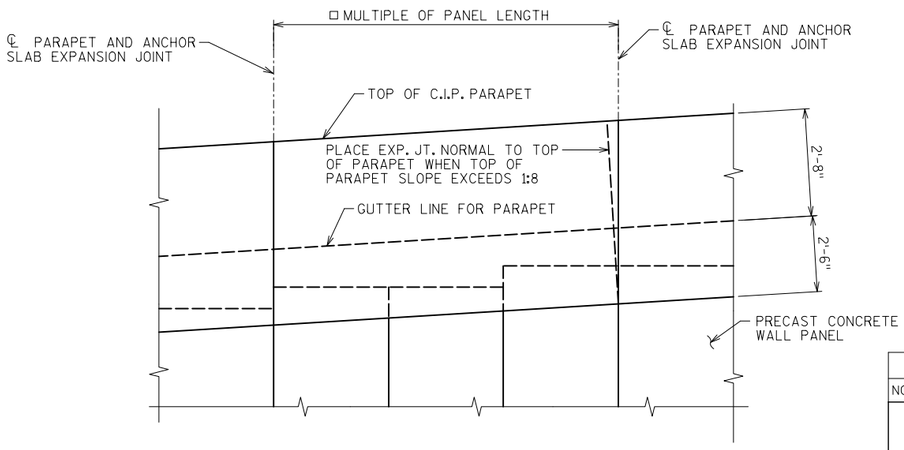
RODENT SHIELD DETAIL

■ DIMENSIONS ARE APPROXIMATE. THE GRATE IS SIZED TO FIT INTO A PIPE COUPLING. ORIENT SO SLOTS ARE VERTICAL.

COST OF RODENT SHIELD AND ALL FITTINGS TO BE INCLUDED IN THE BID ITEM "PIPE UNDERDRAIN WRAPPED 6-INCH."

THE RODENT SHIELD SHALL BE A PVC GRATE SIMILAR TO THIS DETAIL. THE GRATE IS COMMERCIALLY AVAILABLE AS A FLOOR STRAINER. A PIPE COUPLING IS REQUIRED FOR THE ATTACHMENT OF THIS SHIELD TO THE EXPOSED END OF THE PIPE UNDERDRAIN. THE SHIELD SHALL BE FASTENED TO THE PIPE COUPLING WITH TWO OR MORE NO. 10 X 1-INCH STAINLESS STEEL SHEET METAL SCREWS.

INLET STATION	PIPE SIZE	INLET DIM.	INVERT EL.
248MNE+50.00	15"	2 X 2.5-FT	772.94
251MNE+50.00	15"	2 X 2.5-FT	778.87
256MNE+00.00	15"	2 X 2.5-FT	778.03
259EB+00.00	15"	2 X 2.5-FT	775.25



□ ALL JOINTS SHALL COINCIDE WITH PANEL JOINT ON FRONT FACE.

C.I.P. PARAPET PARTIAL ELEVATION

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WALL DETAILS 1

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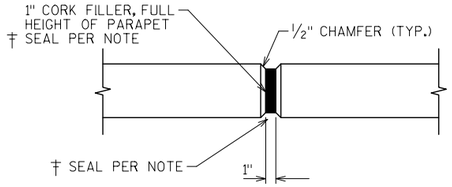
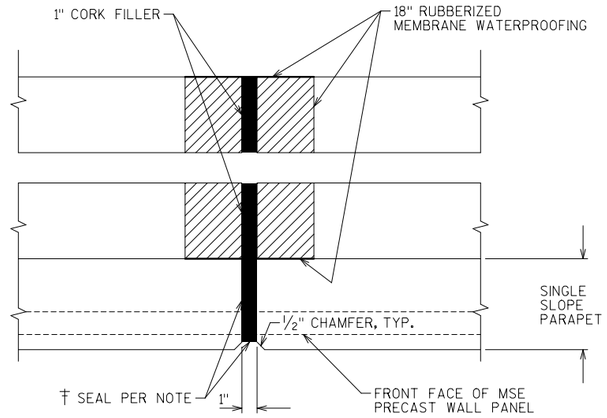


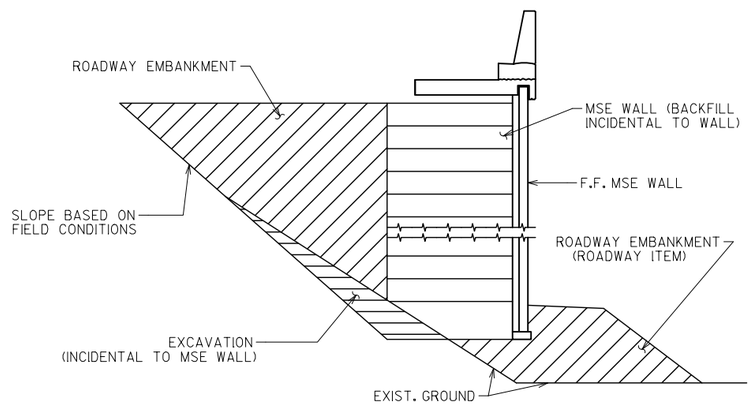
TRAFFIC BARRIER EXPANSION JOINT DETAIL

† SEAL ALL EXPOSED HORIZ. & VERT. SURFACES OF FILLER WITH NON-STAINING GRAY NON-BITUMINOUS JOINT SEALER. (1" DEEP AND HOLD ⅛" BELOW SURFACE OF CONC.)



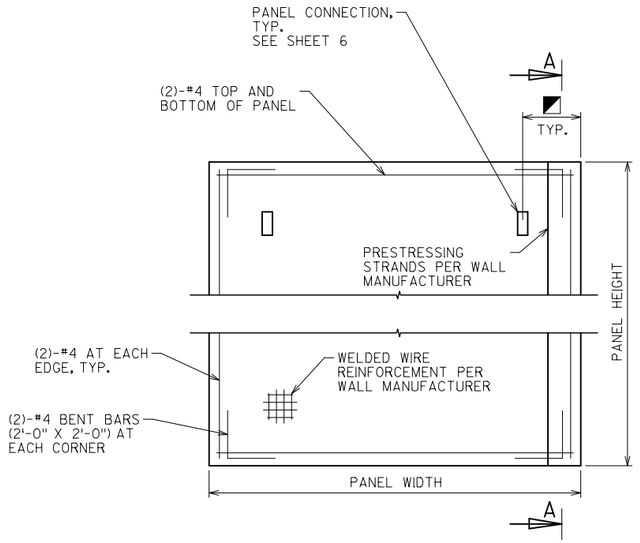
ANCHOR SLAB EXPANSION JOINT DETAIL

EXPANSION JOINTS TO BE SPACED AT A MINIMUM OF 20' AND A MAXIMUM OF 30'. LOCATE EXPANSION JOINTS OVER WALL JOINTS. DO NOT RUN BAR STEEL THRU JOINT, EXCEPT FOR DOWEL BARS. JOINT TO EXTEND FULL DEPTH OF PARAPET AND ANCHOR SLAB.



EXCAVATION/BACKFILL DETAIL

(AT MSE WALL)

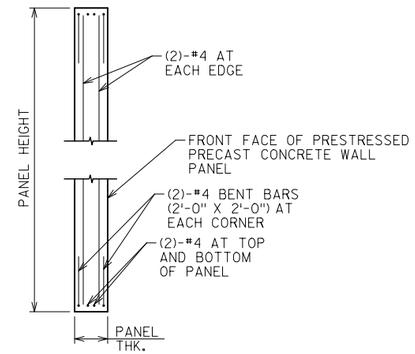


ELEVATION PRESTRESSED PRECAST CONCRETE WALL PANEL

PRECAST PANELS 6 FEET OR LESS IN HEIGHT DO NOT REQUIRE PRESTRESSING STRANDS.

LEGEND

◪ USE 2'-0" ON 10'-0" PANELS
USE 1'-0" ON PANELS LESS THAN 10'-0"



SECTION A-A

PRESTRESSING STRANDS NOT SHOWN FOR CLARITY.

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WALL DETAILS 2

SHEET 5 OF 10
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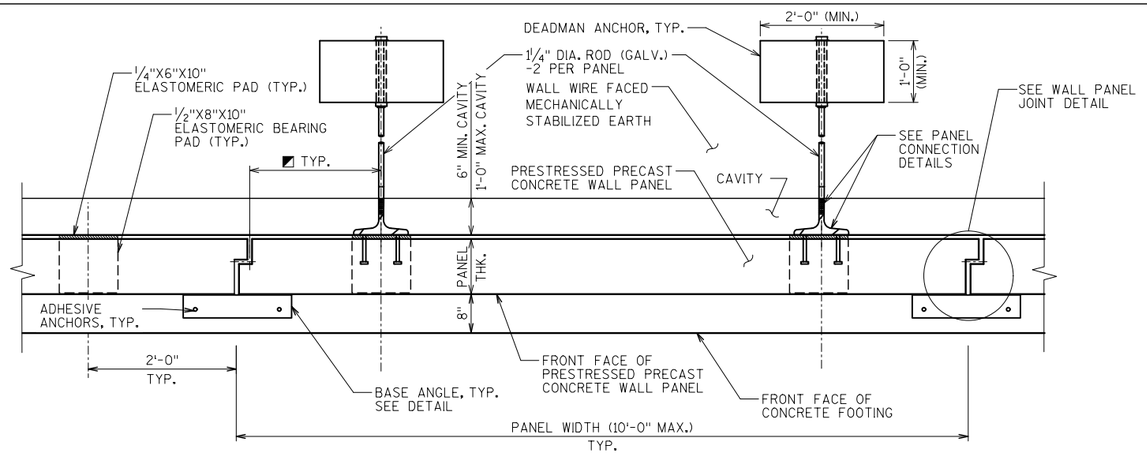
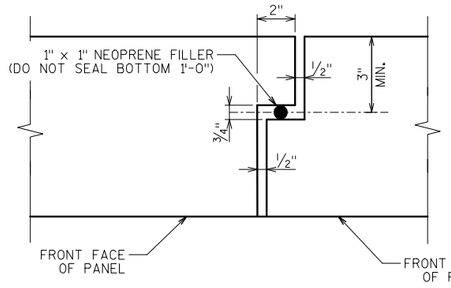
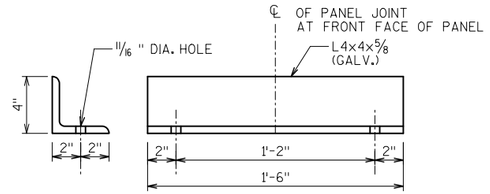


TYPICAL WALL PANEL CONNECTION - PLAN VIEW

ALL ITEMS SHOWN ARE INCLUDED IN BID ITEM "PRESTRESSED PRECAST CONCRETE WALL PANEL".



WALL PANEL JOINT DETAIL



BASE ANGLE DETAIL

CENTERED ON PANEL JOINT OR AT EACH FOOTING END OR STEP ELEVATION.

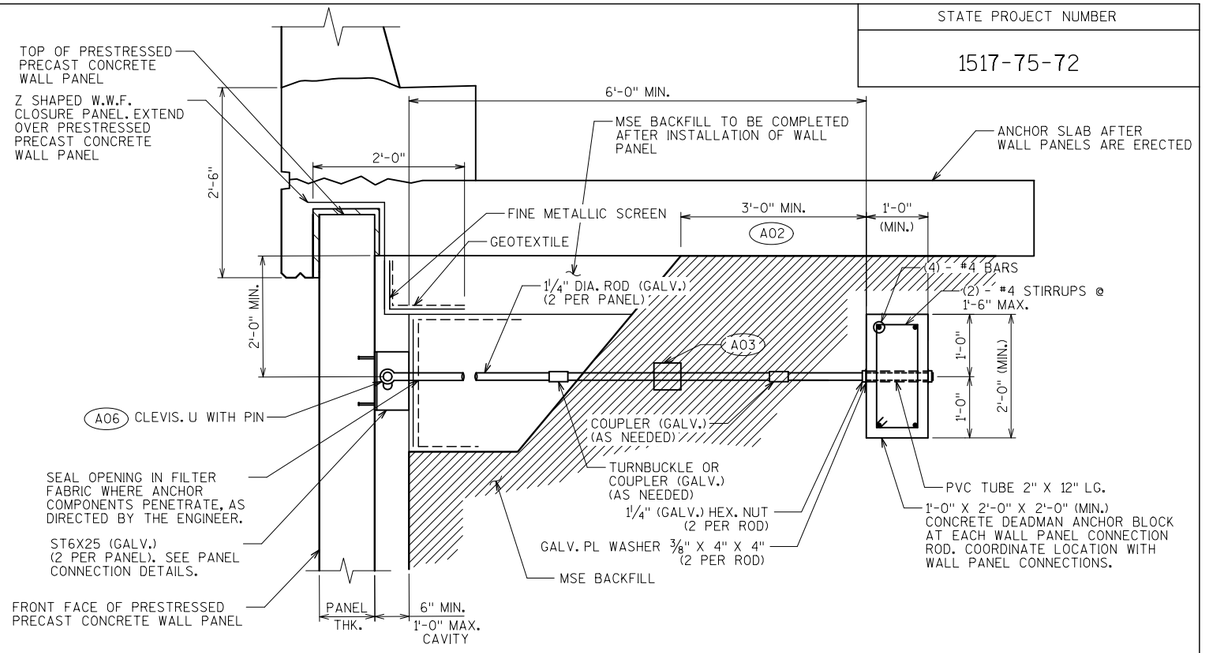
LEGEND

- (A01) ST6X25, ROD, CONNECTING HARDWARE, AND DEADMAN ANCHOR INCLUDING ALL ASSOCIATED REINFORCEMENT ARE INCLUDED IN THE BID ITEM "PRESTRESSED PRECAST CONCRETE WALL PANEL."
- (A02) CONTRACTOR TO DESIGN LENGTH TO PROVIDE REQUIRED HORIZONTAL CAPACITY OF ANCHOR ASSEMBLY. MINIMUM OF 3'-0" OF COMPACTED FILL IN FRONT OF DEADMAN ANCHOR PRIOR TO WALL PANEL ERECTION. 1¼" ROD TO BE 2'-0" MIN. BELOW TOP OF REINFORCED SOIL ZONE.
- (A03) OPTIONAL MULTIDIRECTIONAL CONNECTOR MAY BE USED TO FACILITATE ALIGNMENT AT THE CONNECTION.
- (A04) BASE AGGREGATE OPEN GRADED, 6" MIN. INCIDENTAL TO BID ITEM "PRESTRESSED PRECAST CONCRETE WALL PANEL".
- (A05) MINIMUM DIMENSION FROM FINISHED GRADE AT FRONT FACE OF WALL TO BOTTOM OF WALL PANEL FOOTING IS SHOWN. THE FOOTING MAY BE CONSTRUCTED ON A SLOPE PARALLEL TO THE PROPOSED GRADE, OR MAY BE STEPPED. THE CONTRACTOR SHALL COORDINATE CONSTRUCTION OF THE WALL PANEL FOOTING WITH FABRICATION OF THE CONCRETE PANELS.
- (A06) CLEVIS TO BE INSTALLED TOWARDS THE TOP OF THE SLOTTED HOLE, TO ALLOW FOR SETTLEMENT OF THE WIRE FACED MSE WALL.
- ◩ USE 2'-0" ON 10'-0" PANELS
  USE 1'-0" ON PANELS LESS THAN 10'-0".

NOTES

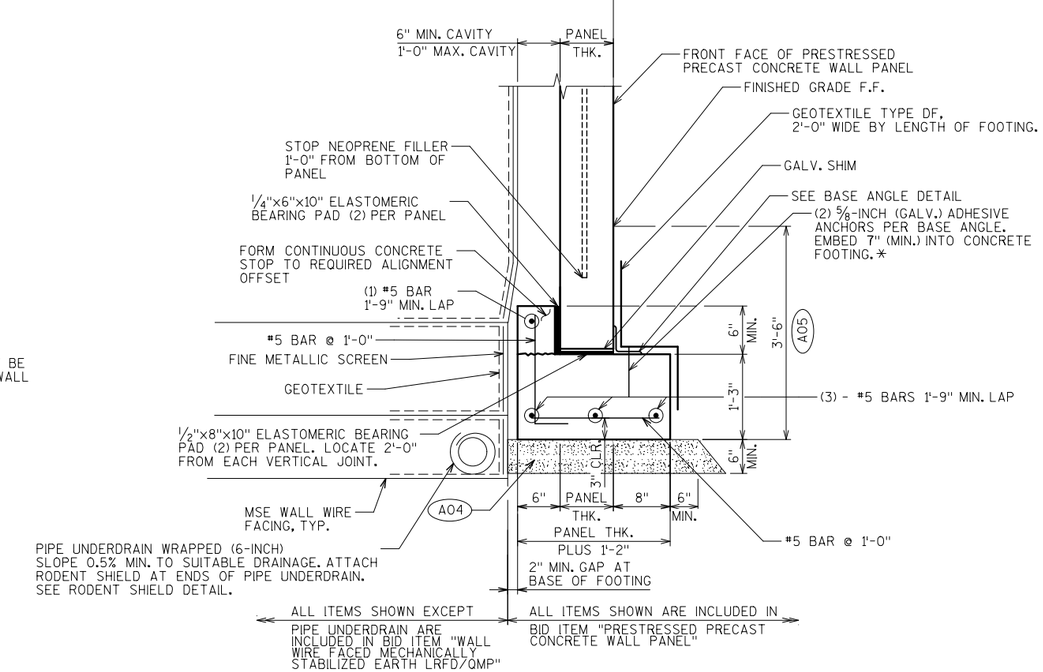
CLEVIS, CLEVIS PIN, COUPLER, MULTIDIRECTIONAL CONNECTOR, AND TURNBUCKLE TO BE CORROSION RESISTANT AND DEVELOP 125% OF THE ULTIMATE STRENGTH OF THE 1¼" DIAMETER ROD.

FORCES APPLIED TO THE DEADMAN ANCHOR MUST BE ACCOUNTED FOR IN THE DESIGN OF MSE REINFORCEMENT WHEN SATISTYING FORCE AND MOMENT EQUILIBRIUM.



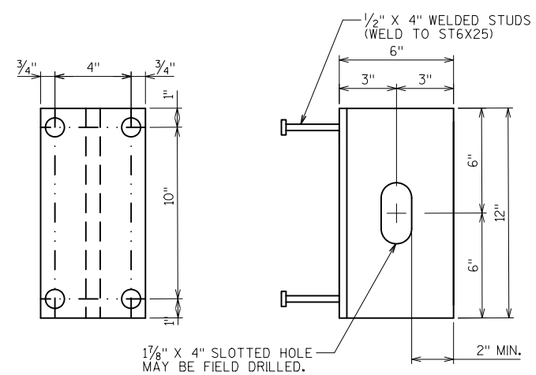
WALL PANEL ANCHOR DETAIL

A01



WALL PANEL FOOTING DETAIL

* ADHESIVE ANCHORS SHALL CONFORM TO SECTION 502.2.12 OF THE STANDARD SPECIFICATIONS.



PANEL CONNECTION DETAILS

(2 PER PANEL)

AS AN ALTERNATE, ½" (GALV.) ADHESIVE ANCHORS MAY BE USED TO AVOID AN OBSTRUCTION. ALTERNATIVE SHALL BE LIMITED TO ONE PANEL CONNECTION PER PANEL.

ST6X25 MAY BE WELDED TO ¾" THICK PLATE WITH (4)-½" X 4" STUDS ANCHORED IN PRECAST CONCRETE PANEL. RESTORE ZINC COATING AROUND ANY WELDED AREAS. SUBMIT DETAILS FOR APPROVAL BY THE ENGINEER.

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WALL DETAILS 3

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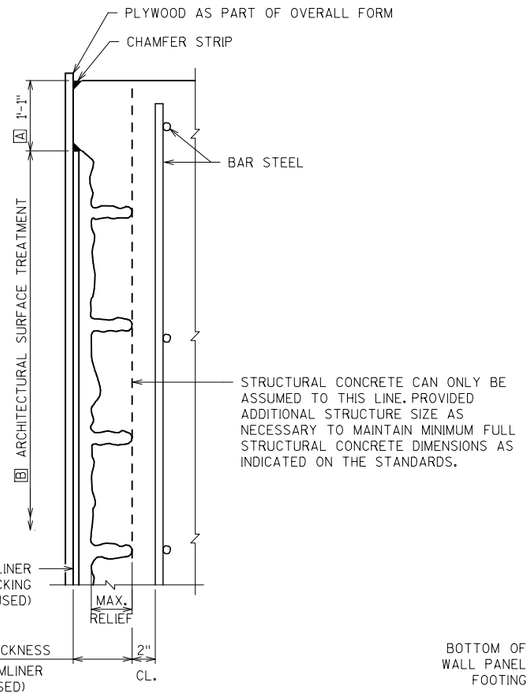
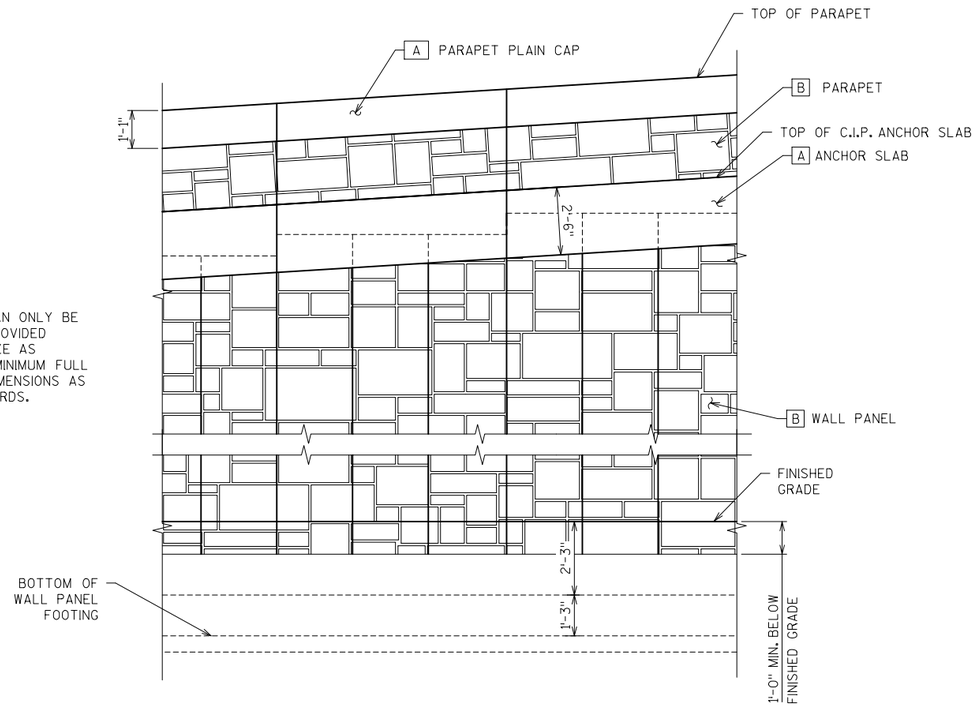
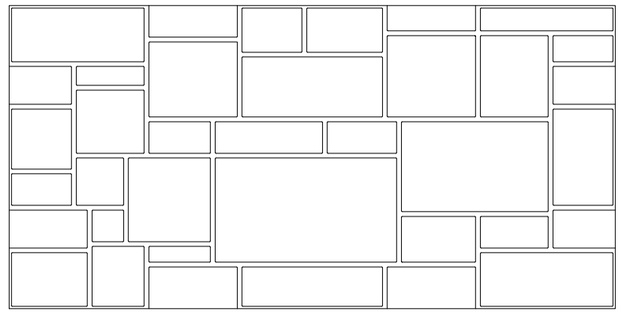
1517-75-72



SECTION THROUGH PARAPET FORMLINER



CONCRETE FORMLINER STAINING DETAIL



ASHLAR

MAXIMUM RELIEF: 1⅝"
AVERAGE RELIEF: 1¼"
LINER THICKNESS*: 2½"
STONE SIZE: H: 3" - 17"
W: 5"-29"

* INCLUDES INTERNAL PLYWOOD BACKING

CONCRETE STAINING SCHEDULE

MARK	COLOR	FED. COLOR NO.	LOCATION
A	HOPSACK	SW 6109	PARAPET PLAIN CAP, ANCHOR SLAB
B	LATTE	FED 33522	WALL PANELS, PARAPET

NOTES

FORMLINER COURSING ON RETAINING WALL SHALL BE LEVEL.

THE FORMLINER PATTERN SHALL BE CONTINUOUS ACROSS CONSTRUCTION JOINTS.

FINISH ON COLORS IS FLAT (LUSTERLESS).

FORMLINER COURSING ON PARAPETS SHALL BE PARALLEL TO TOP OF PARAPET.

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AESTHETIC DETAILS

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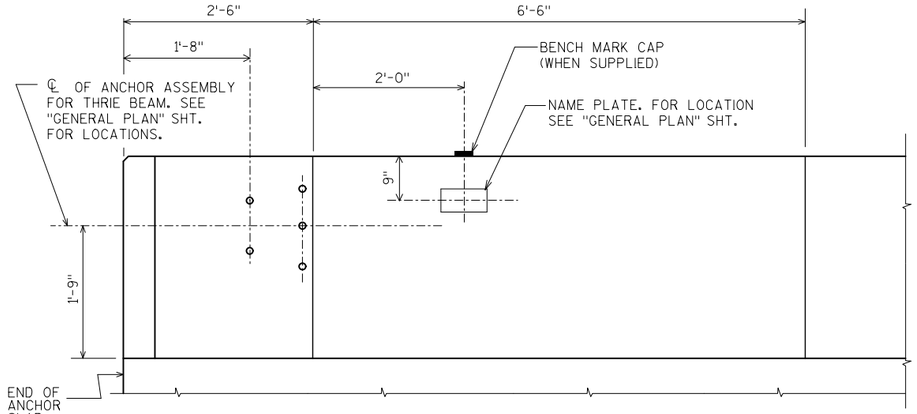
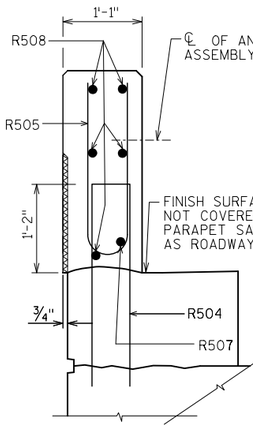


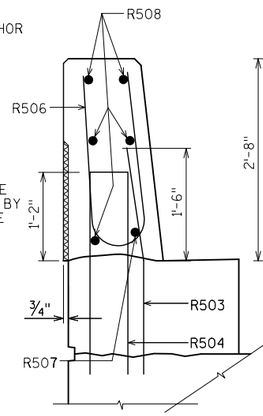
INSIDE ELEVATION

▽ R503 BARS MAY BE PLACED AFTER CONCRETE IS POURED BUT BEFORE INITIAL SET HAS TAKEN PLACE. USE CARE TO PLACE R503 BARS CORRECTLY ALONG TRANSITION OF PARAPET.

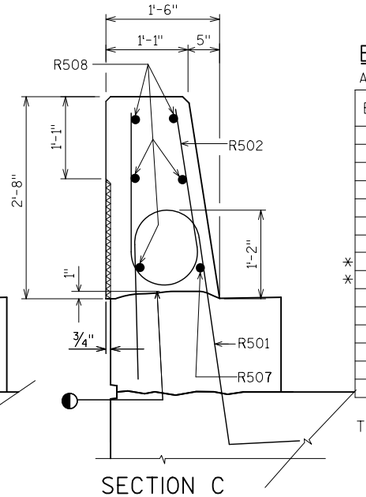
▲ R501 AND R504 BARS TO BE TIED TO ANCHOR SLAB STEEL BEFORE ANCHOR SLAB IS POURED.



SECTION A



SECTION B



SECTION C

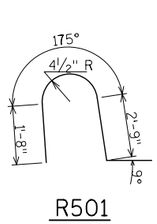
BILL OF BARS

ALL BARS ARE EPOXY COATED

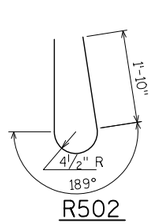
	BAR MARK	NO. REQ'D	LENGTH	BENT	LOCATION
	R501	1929	6'-5"	X	PARAPET VERT.
	R502	1929	5'-0"	X	PARAPET VERT.
	R503	24	3'-0"	X	PARAPET VERT.
	R504	34	5'-7"	X	PARAPET VERT.
	R505	22	4'-9"	X	PARAPET VERT.
	R506	12	4'-10"	X	PARAPET VERT.
	R507	2	10'-6"	X	PARAPET LONGIT.
*	R508	6	1302'-8"		PARAPET LONGIT.
*	R409	16	1302'-8"		ANCHOR SLAB LONGIT.
	R410	1044	6'-4"	X	ANCHOR SLAB VERT.
	R511	1956	8'-2"	X	ANCHOR SLAB TRANS.
	R412	1044	6'-4"		ANCHOR SLAB TRANS.
	R413	24	5'-4"	X	ANCHOR SLAB VERT. @ INLET
	R514	18	9'-0"		ANCHOR SLAB LONGIT. @ INLET
	R515	12	6'-4"		ANCHOR SLAB TRANS. @ INLET

TOTAL WEIGHT = 71,340 LB

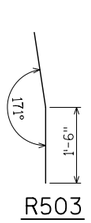
* FIGURE SHOWN IN THE "NO. REQ'D" AND "LENGTH" COLUMNS OF THE TABLE ARE USED FOR BAR WEIGHT CALCULATIONS ONLY. INDIVIDUAL BAR LENGTHS TO BE DETERMINED BY THE CONTRACTOR BASED ON THE ACTUAL DISTANCE BETWEEN ANCHOR SLAB EXPANSION JOINTS.



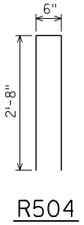
R501



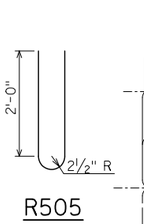
R502



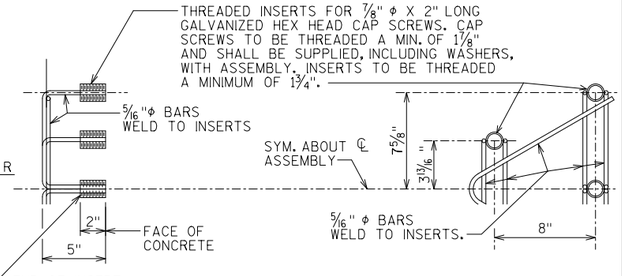
R503



R504



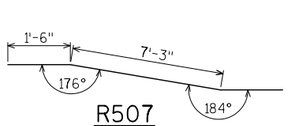
R505



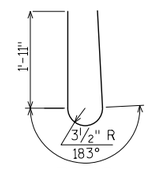
DETAIL OF ANCHOR ASSEMBLY

NOTE: HEX HEAD CAP SCREWS & WASHERS TO BE GALVANIZED IN ACCORDANCE WITH AASHTO M232 CLASS C.

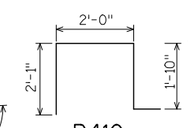
ASSEMBLY SHALL BE BID ITEM "ANCHOR ASSEMBLIES FOR STEEL PLATE BEAM GUARD", EACH.



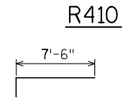
R507



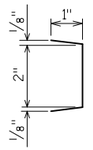
R506



R410



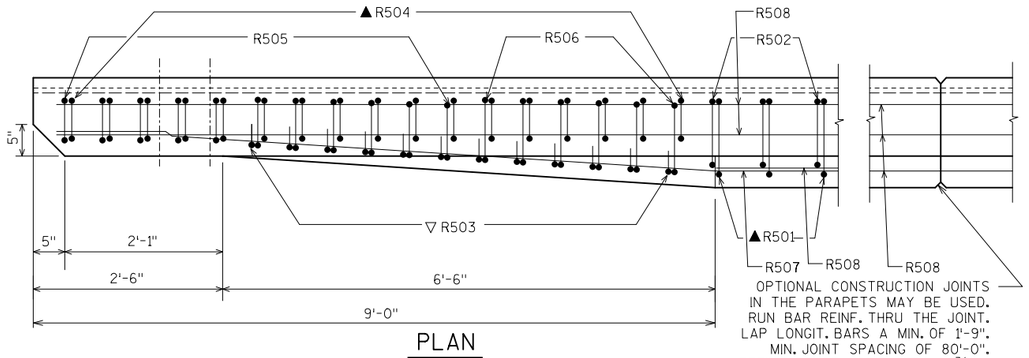
R511



RUSTICATION DETAIL

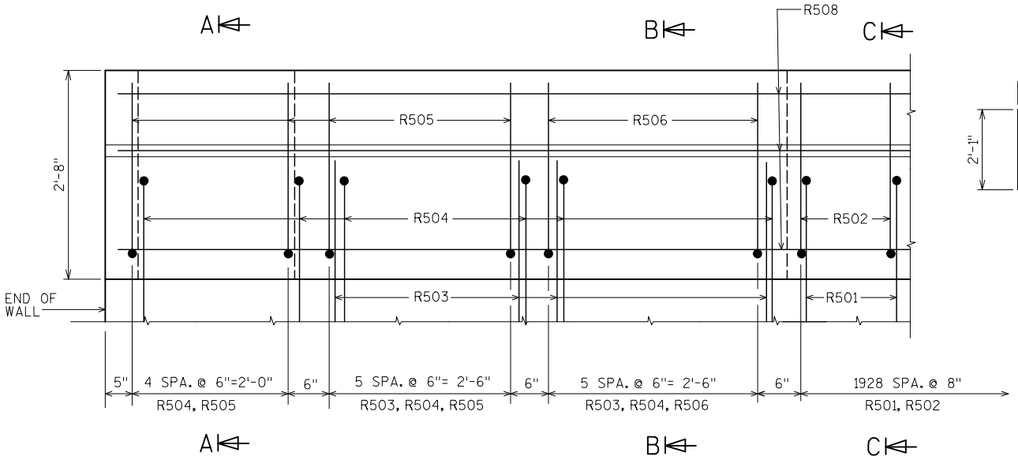
LEGEND

- □ (3) - ¾" ϕ SMOOTH DOWEL BARS, 1'-6" LONG, AT EXPANSION JOINT. EMBED 9". USE APPROVED DEBONDER ON ½ OF BAR LENGTH. COST INCLUDED IN "CONCRETE MASONRY RETAINING WALLS".
- ◆ 18" RUBBERIZED MEMBRANE WATERPROOFING TO BE PLACED ON THESE SURFACES AT EACH JOINT.
- ◐ CONST. JOINT - STRIKE OFF AS SHOWN.
- ◧ OPTIONAL CONSTRUCTION JOINT. LEAVE SURFACE ROUGHENED.
- ▲ PROVIDE RUSTICATION DETAIL IF OPTIONAL CONSTRUCTION JOINT IS USED.
- ■ IF THE OPT. CONST. JOINT IS USED, PLACE 18" MEMBRANE WATERPROOFING ALONG ENTIRE LONGITUDINAL JOINT. THE MEMBRANE WATERPROOFING SEALING THE OPTIONAL CONST. JOINT IS INCIDENTAL TO THE CONCRETE MASONRY BID ITEM.
- ◑ TRANSITION PAN AND SLOPE OVER 10'-0" ON EACH SIDE OF THE INLET.

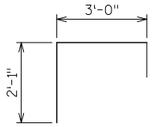


OPTIONAL CONSTRUCTION JOINTS IN THE PARAPETS MAY BE USED. RUN BAR REINF. THRU THE JOINT. LAP LONGIT. BARS A MIN. OF 1'-9". MIN. JOINT SPACING OF 80'-0". DEFINE CONST. JOINT WITH A ¾" - 'V' GROOVE.

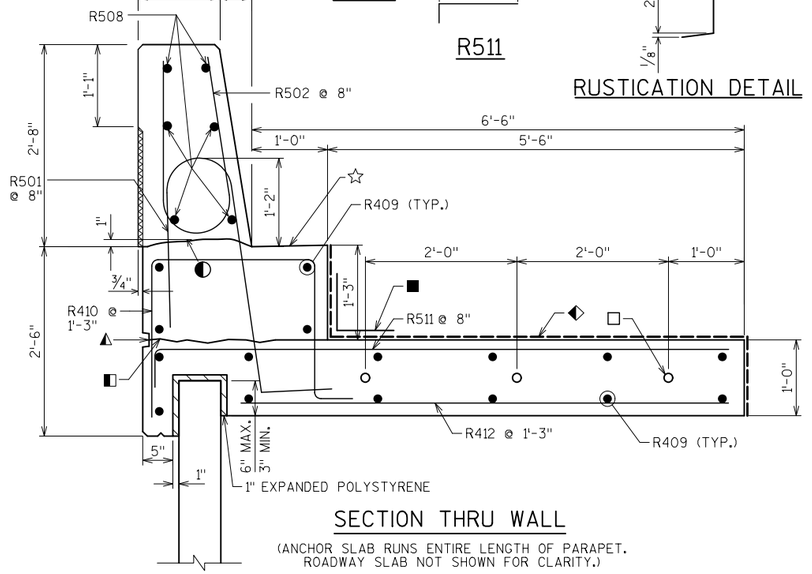
PLAN



OUTSIDE ELEVATION



R413



SECTION THRU WALL

(ANCHOR SLAB RUNS ENTIRE LENGTH OF PARAPET. ROADWAY SLAB NOT SHOWN FOR CLARITY.)

☆ SLOPE TO MATCH ROADWAY

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SINGLE SLOPE PARAPET 32SS

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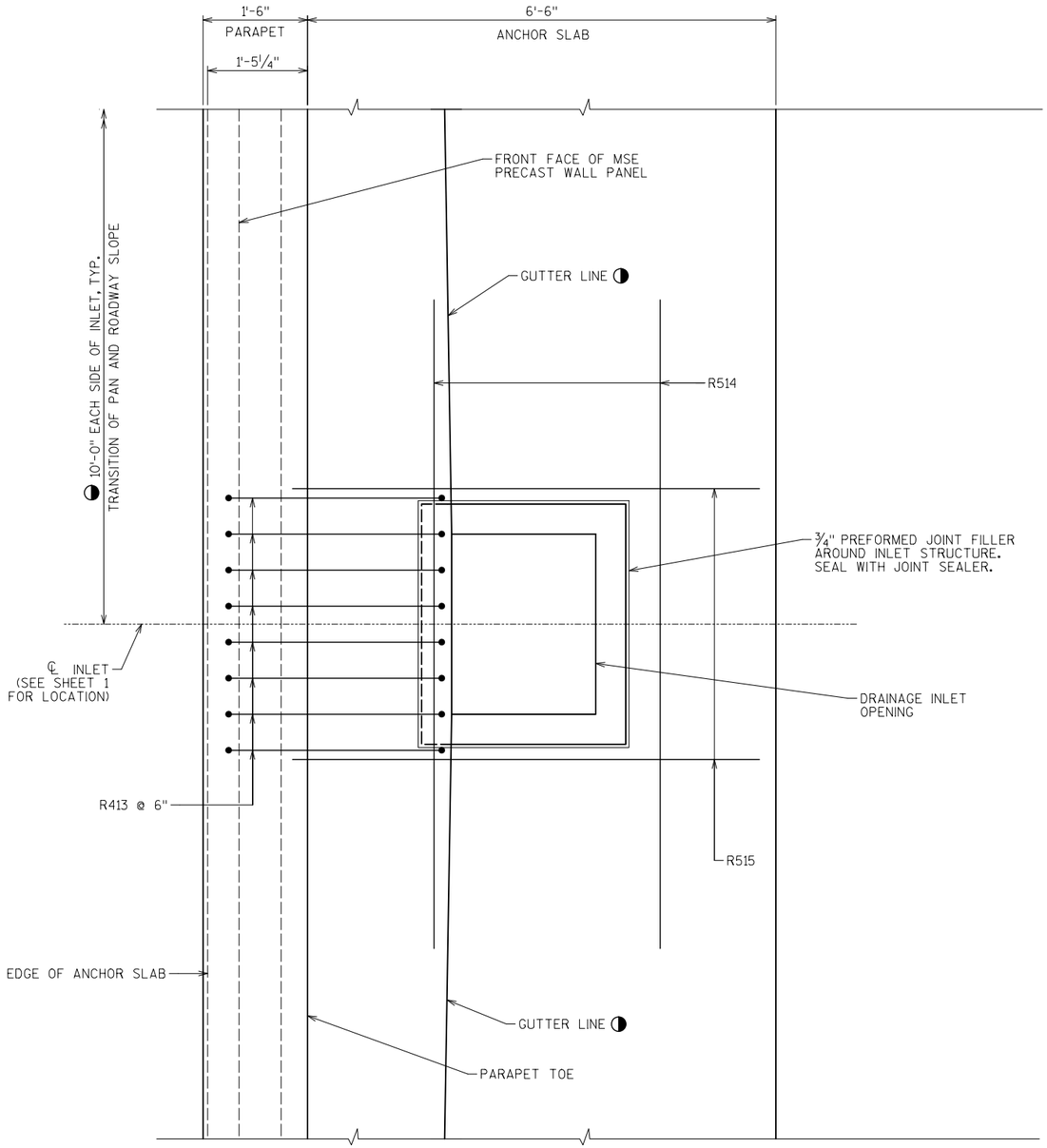
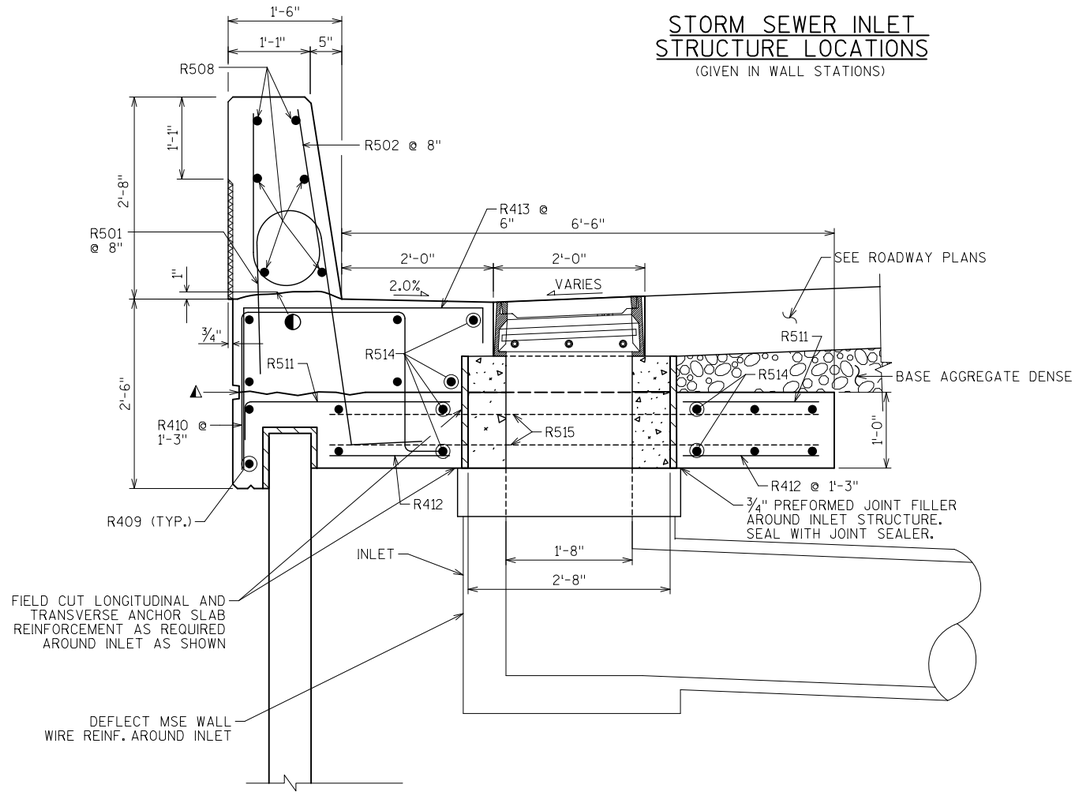


PARAPET AND ANCHOR SLAB AT INLET STRUCTURE

1+75.00
4+75.00
9+16.84
12+07.82

STORM SEWER INLET STRUCTURE LOCATIONS

(GIVEN IN WALL STATIONS)



SECTION AT INLET STRUCTURE

SEE ROADWAY PLANS FOR INLET AND PIPE DETAILS

NOTES

CUT, BEND, OR DISPLACE REINFORCEMENT 2" CLEAR OF INLET STRUCTURE AS REQUIRED.

SEE SHEET 8 FOR BILL OF BARS, BEND DIAGRAMS, AND SYMBOL LEGEND.

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

STRUCTURE R-70-142

DRAWN BY CEB | PLANS CK'D. MJA

ANCHOR SLAB AT INLET

SHEET 9 OF 10
508

DATE: 2/9/2017
I.D.

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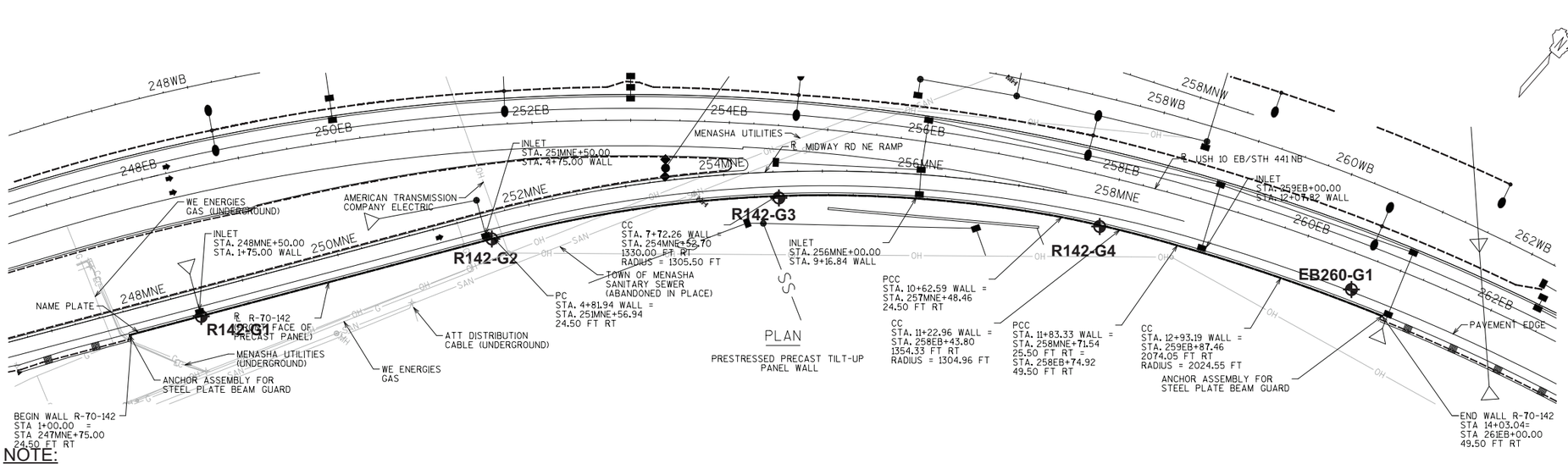


NOTE:

THE SUBSURFACE INFORMATION PRESENTED HEREIN IS AN ABBREVIATED VERSION OF THE INFORMATION PRESENTED IN THE GEOTECHNICAL ENGINEERING REPORT. REVIEW THE APPROPRIATE GEOTECHNICAL REPORT AND SOIL BORING LOGS FOR ADDITIONAL SUBSURFACE INFORMATION.

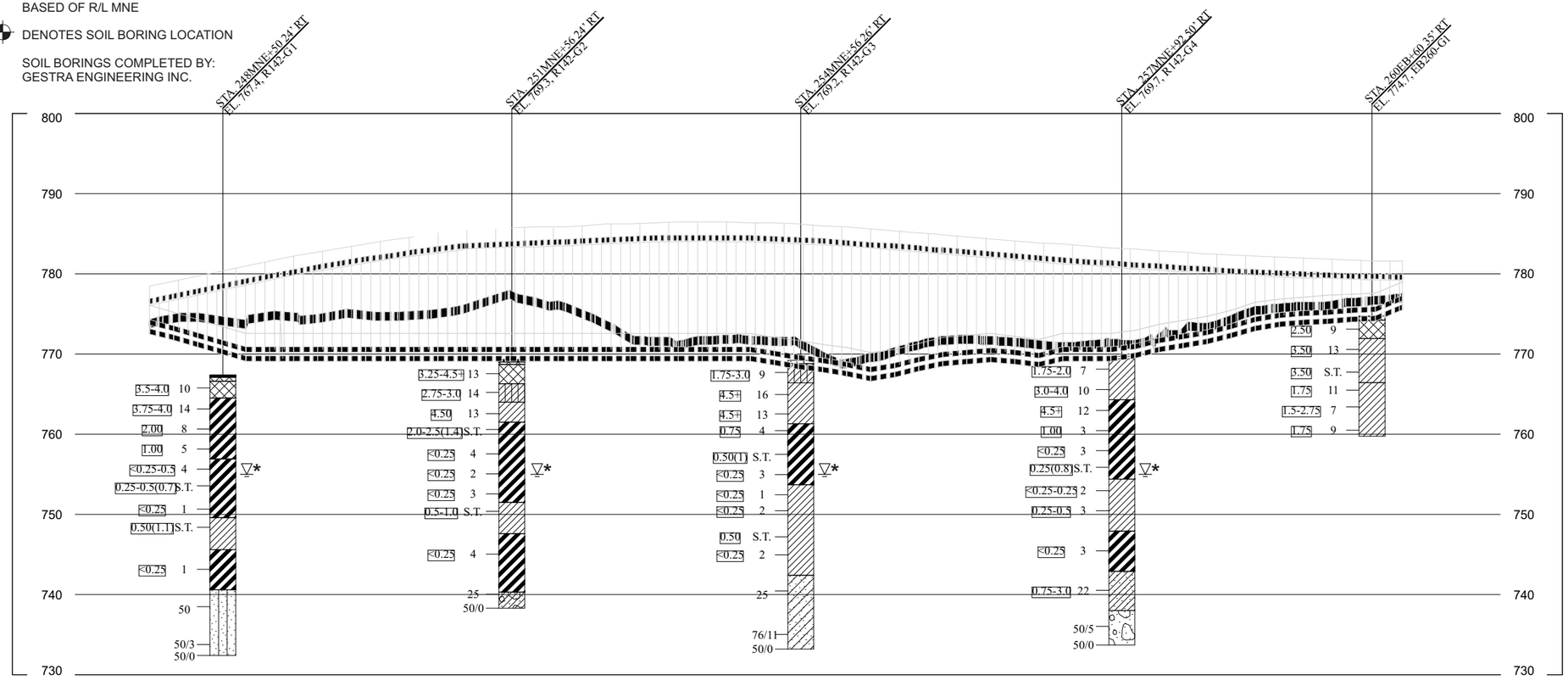
BORING STATIONS AND OFFSETS ARE BASED OF R/L MNE

⊕ DENOTES SOIL BORING LOCATION

SOIL BORINGS COMPLETED BY:
GESTRA ENGINEERING INC.

SOIL BORING TAKEN:

1.14.2013 - BORING R142-G1
1.14.2013 - BORING R142-G2
1.16.2013 - BORING R142-G3
1.15.2013 - BORING R142-G4
3.02.2012 - BORING EB260-G1



NOTE: ▽*--WATER LEVEL ASSUMED FROM SAMPLE CONDITION

STATE PROJECT NUMBER

1517-75-72

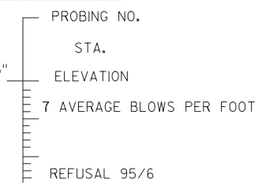
ABBREVIATIONS

F — FINE M — MEDIUM C — COARSE
WS — WEATHERED SO — SOUND

MATERIAL SYMBOLS

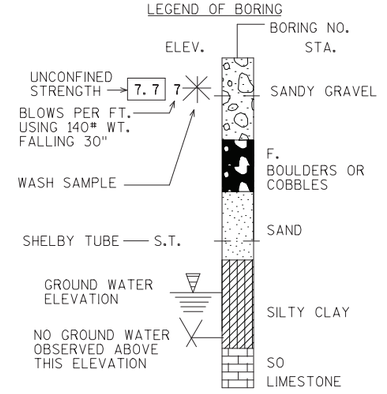
TOPSOIL | SILT | FAT CLAY
SAND | PEAT | DOLOMITE
GRAVEL | CLAY | FILL

LEGEND OF PROBING



95/6=95 BLOWS FOR 6" PENETRATION
PROBING TAKEN WITH A 350# WT. FALLING 18" ON A 2" O.D. POINT.

LEGEND OF BORING



UNLESS OTHERWISE SPECIFIED, THE BLOWS PER FOOT AT THE LOCATIONS INDICATED ARE BASED ON DRIVING A 2" O.D. X 1.4" I.D. SPLIT SPOON SAMPLER WITH A 140# HAMMER HAVING A FREE FALL OF 30". THE BLOW COUNT IS TAKEN IN UNDISTURBED SOIL IMMEDIATELY BELOW A CASED OR OPEN HOLE ELIMINATING SIDE FRICTION ON THE DRIVE PIPE.

SUBSURFACE EXPLORATION FOR FOUNDATION DESIGN AND BIDDERS INFORMATION

TO OBTAIN RELATIVE DATA CONCERNING THE CHARACTER OF MATERIAL IN AND UPON WHICH THE FOUNDATION MIGHT BE BUILT, BORINGS AND/OR SOUNDINGS WERE MADE AT POINTS APPROXIMATELY AS INDICATED ON THIS DRAWING. THE DATA PRESENTED HEREIN REPRESENTS THE FINDINGS OF THE SUBSURFACE EXPLORATIONS MADE. HOWEVER, BECAUSE THE DEPTHS INVESTIGATED ARE LIMITED AND THE AREA OF THE BORINGS AND/OR SOUNDINGS IS VERY SMALL IN RELATION TO THE ENTIRE AREA, THE WISCONSIN DEPARTMENT OF TRANSPORTATION DOES NOT WARRANT CONDITIONS BELOW THE DEPTHS INVESTIGATED OR THAT THE CLASSIFICATION OF MATERIAL ENCOUNTERED IN THESE INVESTIGATIONS IS NECESSARILY TYPICAL OF THE ENTIRE SITE.

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

STRUCTURE R-70-142

DRAWN BY RH | PLANS CK'D. DB

SUBSURFACE EXPLORATION

SHEET 10 OF 10
509

SCALE 1"=130'

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STATE PROJECT NUMBER

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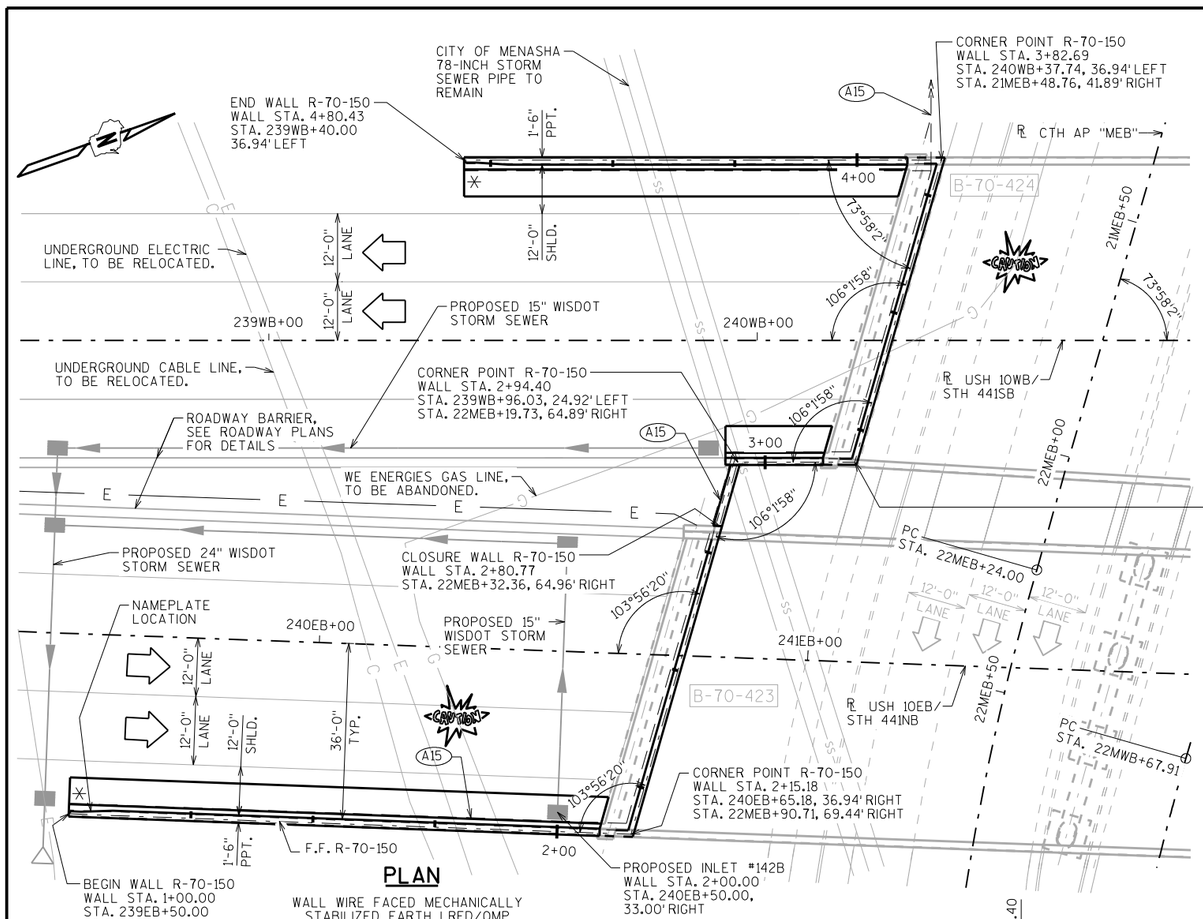


PLAN

WALL WIRE FACED MECHANICALLY STABILIZED EARTH LRFD/QMP

TRAFFIC DIRECTION

✳ PROVIDE FOR THRIE BEAM GUARD RAIL ATTACHMENT. AT UNUSED ANCHOR ASSEMBLIES CAULK HOLES SHUT WITH "100% SILICONE CAULK".

(A15) PIPE UNDERDRAIN WRAPPED (6-INCH). SLOPE 0.5% MIN. TO SUITABLE DRAINAGE. RODENT SHIELD REQUIRED.

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 WIRE FACED MECHANICALLY STABILIZED EARTH LRFD/QMP".

PLANS, ELEVATIONS, AND DETAILS SHOWN ON THESE PLANS 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 SHALL BE DESIGNED USING THE ELEVATIONS GIVEN ON SHEET 2.

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

DESIGN RETAINING WALL FOR A LIVE LOAD SURCHARGE OF 240 PSF.

DESIGN RETAINING WALL FOR A WIND SUCTION LOAD OF 20 PSF ON THE PRECAST PANEL.

THE MAXIMUM VALUE OF THE ANGLE OF INTERNAL FRICTION OF THE WALL BACKFILL MATERIAL IN THE REINFORCED ZONE SHALL BE ASSUMED TO BE 30° WITHOUT CERTIFIED TEST VALUES.

ALLOWABLE WALL SYSTEMS

WALL WIRE FACED MECHANICALLY STABILIZED EARTH LRFD/QMP

MATERIAL PROPERTIES

CONCRETE MASONRY RETAINING WALLS (VEHICLE BARRIER, COPING, FOOTING, AND DEADMAN ANCHORS)	f'c = 3,500 P.S.I.
PRESTRESSED PRECAST CONCRETE WALL PANEL	f'c = 5,000 P.S.I.
BAR STEEL REINFORCEMENT, GRADE 60	fy = 60,000 P.S.I.
STRUCTURAL STEEL CARBON - ASTM A36	fy = 36,000 P.S.I.

LIST OF DRAWINGS

1. GENERAL PLAN
2. QUANTITIES & WALL DATA
3. PROFILE GRADE LINES & NOTES
4. WALL CROSS SECTIONS
5. WALL DETAILS 1
6. WALL DETAILS 2
7. WALL PANEL DETAILS
8. ANCHOR SLAB & COPING DETAILS 1
9. ANCHOR SLAB & COPING DETAILS 2
10. ANCHOR SLAB & COPING DETAILS 3
11. ANCHOR SLAB & COPING DETAILS 4
12. SINGLE SLOPE PARAPET 42SS
13. PIPE RAILING DETAILS
14. AESTHETICS DETAILS
15. SUBSURFACE EXPLORATION

TRAFFIC VOLUME

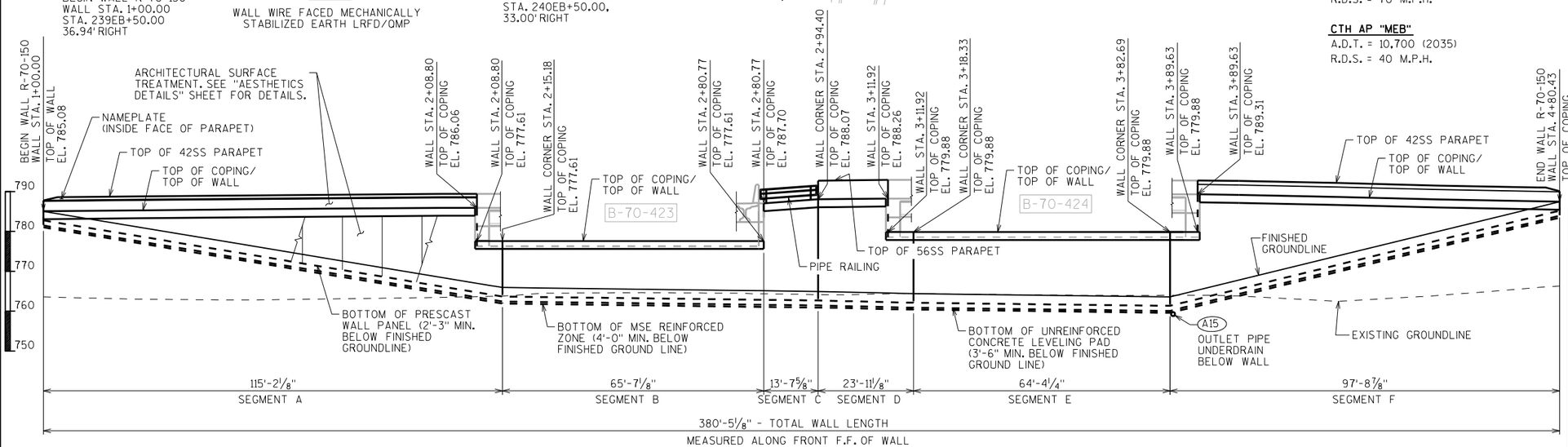
USH 10 EB/STH 441 NB
A.D.T. = 32,900 (2035)
R.D.S. = 70 M.P.H.

USH 10 WB/STH 441 SB
A.D.T. = 35,400 (2035)
R.D.S. = 70 M.P.H.

CTH AP "MEB"
A.D.T. = 10,700 (2035)
R.D.S. = 40 M.P.H.

CURVE DATA

℄ CTH AP "MEB"
P.I. = 24MEB+15.03
△ = 38° 18' 27"
D = 10° 25' 03"
T = 191.03
L = 367.72'
R = 550.00'
P.C. = 22MEB+24.00
P.T. = 25MEB+91.73



ELEVATION

LOOKING AT F.F. WALL

STRUCTURE DESIGN CONTACTS:

EMILY KUEHNE	(608)266-5089
AARON BONK	(608)261-0261

NO.	DATE	REVISION	BY

BUREAU OF STRUCTURES

ACCEPTED William C. Dreher 2/13/17
CHIEF STRUCTURES DESIGN ENGINEER — DATE

STRUCTURE R-70-150

RETAINING WALL ALONG S. ABUTMENT B-70-423/424

COUNTY	CITY
WINNEBAGO	MENASHA

DESIGN SPEC.
AASHTO LRFD BRIDGE DESIGN SPECIFICATIONS

DESIGNED BY	DESIGNED CK'D.	DRAWN BY	PLANS CK'D.
EMK	ABS	ABS	EMK

GENERAL PLAN

SHEET 1 OF 15

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I.D. 1517-07-04G

DATE: FEB. 2017

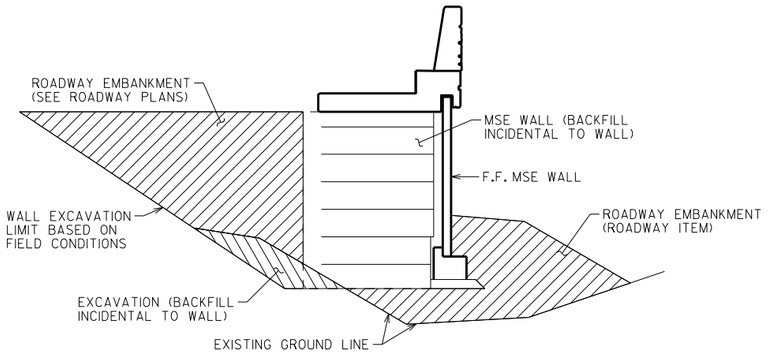
SCALE = 15.00

STATE PROJECT NUMBER

1517-75-72

SOIL PARAMETERS

SOIL DESCRIPTION	UNDRAINED PARAMETERS		DRAINED PARAMETERS		
	FRICTION ANGLE (DEGREES)	COHESION (PSF)	FRICTION ANGLE (DEGREES)	COHESION (PSF)	UNIT WEIGHT (PCF)
GRANULAR BACKFILL BEHIND THE WALL IN THE REINFORCING ZONE	--	--	30	0	120
FILL, GRANULAR BEHIND THE THE REINFORCING ZONE	--	--	30	0	120
COMPILATION OF BORINGS R150-G3, 424-G1, 424-G2					
LEAN/FAT CLAY EL. 752 TO EL. 762	0	1600	28	50	120
FAT/LEAN CLAY EL. 742 TO EL. 752	0	500	24	0	115
VERY STIFF LEAN CLAY EL. 738 TO EL. 742	0	2000	30	50	120
GRAVEL WITH SAND BELOW EL. 738	34	0	34	0	125
ASSUMED DESIGN GROUNDWATER EL. 755.0					



EXCAVATION/BACKFILL DETAIL

WALL EXTERNAL & OVERALL STABILITY EVALUATION

DIMENSIONS					
WALL SEGMENT	SEG. A	SEG. B	SEGS. C-D	SEG.E	SEG. F.
RESISTANCE FACTOR USED	0.75	0.65	0.75	0.65	0.75
WALL HEIGHT (FEET) [1]	22.6	16.0 [4]	27.0	19.8 [4]	27.5
EXPOSED WALL HEIGHT (FEET)	19.1	12.5	23.7	16.3	24
MINIMUM LENGTH OF REINFORCEMENT (FEET) [2]	19	28	22	32	22
LENGTH OF REINFORCEMENT TO HEIGHT RATIO	0.9	1.75	0.8	1.75	0.8
BORING LOCATION USED	B424-G2	B424-G2	B424-G2	B424-G1	B424-G1
APPROXIMATE WALL STATION	2+08	2+75	3+10	3+75	3+90
APPLICABLE WALL STATION RANGE	1+00 TO 2+15.18	2+15.18 TO 2+80.77	2+80.77 TO 3+11.92	3+11.92 TO 3+89.63	3+89.63 TO 4+80.43
CAPACITY TO DEMAND RATIO (CDR) [3]					
GLOBAL STABILITY (DURING CONSTRUCTION)	--	0.92**	--	0.90**	--
GLOBAL STABILITY (LONG TERM)	--	1.03	--	1.05	--
ECCENTRICITY (CDR > 1.0)	1.63	2.79	1.45	2.74	1.54
SLIDING (CDR > 1.0)	1.28	1.38	1.10	1.45	1.14
BEARING CAPACITY (CDR > 1.0)	1.02*	1.01*	1.06*	1.00*	1.02*
FACTORED BEARING RESISTANCE (PSF)	6,225	5,980	7,650	6,760	7,650

NOTES:
1. THE WALL HEIGHT INCLUDES AN EMBEDMENT OF 3.5 FEET.
2. THE LENGTH OF REINFORCEMENT IS THE MINIMUM LENGTH (8 FEET) REQUIRED BY WISDOT.
3. SELECTION OF THE LOWER VALUE BETWEEN DRAINED AND UNDRAINED ANALYSIS RESULTS.
4. BRIDGE STRUCTURE ON WALL, 10 FEET SURCHARGE CONSIDERED BEHIND THE WALL.

* CONTROLLING DESIGN ISSUE

** MINIMUM VALUE FOR UNDRAINED ANALYSIS DURING STAGED LOADING (MONITORING OF INSTRUMENTATION RECOMMENDED)

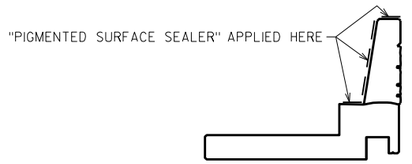
ADDITIONAL ASSUMPTIONS:
1. THE GRANULAR BACKFILL IS FREE DRAINING AND IS ASSUMED NOT TO BECOME SATURATED.
2. THE WALL STABILITY CHECK INCLUDES A SURCHARGE LOAD OF 240 PSF TO MODEL LIVE LOAD FROM TRAFFIC.
3. AN ADDITIONAL SURCHARGE LOAD OF SLAB ANCHOR (2 FEET IN THICKNESS) IS ALSO INCLUDED IN THIS DESIGN.
4. GLOBAL STABILITY FACTOR OF SAFETY DETERMINED BY THE COMPUTER PROGRAM, G-STABL7, AND MODIFIED-BISHOP METHOD.
5. BEARING RESISTANCE BASED ON WISDOT LRFD BRIDGE DESIGN SPECIFICATIONS.

GEOMETRY TABLE

	WALL STATION	R/L STATION	OFFSET TO F.F. WALL	TOP OF WALL EL.	FINISHED GRADE EL.	EXISTING GRADE EL.
SEGMENT A	1+00.00	239EB+50.00	36.94' RT.	785.08	785.04	763.57
	1+25.00	239EB+75.00	36.94' RT.	785.31	780.89	763.01
	1+50.00	240EB+00.00	36.94' RT.	785.53	776.75	762.82
	1+75.00	240EB+25.00	36.94' RT.	785.74	772.60	763.09
	2+00.00	240EB+50.00	36.94' RT.	785.94	768.45	763.50
	2+08.80	240EB+58.80	36.94' RT.	786.06	766.99	763.66
	2+08.80	240EB+58.80	36.94' RT.	777.61	766.99	763.66
	2+11.83	240EB+61.83	36.94' RT.	777.61	766.49	763.72
	2+11.83	240EB+61.83	36.94' RT.	777.61	766.49	763.72
	2+15.18	240EB+65.18	36.94' RT.	777.61	765.94	763.79
SEGMENT B	2+15.18	22MEB+90.71	69.44' RT.	777.61	765.94	763.79
	2+25.00	22MEB+82.04	68.33' RT.	777.61	765.81	764.50
	2+50.00	22MEB+59.84	66.20' RT.	777.61	765.49	764.67
	2+75.00	22MEB+37.53	65.08' RT.	777.61	765.19	764.51
	2+80.77	22MEB+32.36	64.96' RT.	777.61	765.11	764.34
SEG. C	2+80.77	22MEB+32.36	64.96' RT.	787.70	765.11	764.41
	2+94.40	22MEB+19.73	64.89'RT.	788.07	764.95	764.17
SEGMENT D	2+94.40	239WB+96.03	24.92' RT.	788.07	764.95	764.17
	3+00.00	240WB+01.63	24.92' RT.	788.13	764.82	764.12
	3+11.92	240WB+13.55	24.92' RT.	788.26	764.55	764.35
	3+11.92	240WB+13.55	24.92' RT.	779.88	764.55	764.35
	3+14.95	240WB+16.58	24.92' RT.	779.88	764.49	764.44
	3+14.95	240WB+16.58	24.92' RT.	779.88	764.49	764.44
	3+18.33	240WB+19.96	24.92' RT.	779.88	764.41	764.47
SEGMENT E	3+18.33	22MEB+13.12	41.89' RT.	779.88	764.41	764.47
	3+25.00	22MEB+06.45	41.89' RT.	779.88	764.32	764.34
	3+50.00	21MEB+81.45	41.89' RT.	779.88	764.01	764.10
	3+75.00	21MEB+56.45	41.89' RT.	779.88	763.69	763.93
	3+82.69	21MEB+48.76	41.89' RT.	779.88	763.59	764.04
SEGMENT F	3+82.69	240WB+37.74	36.94' LT.	779.88	763.59	764.04
	3+86.07	240WB+34.36	36.94' LT.	779.88	764.44	764.05
	3+86.07	240WB+34.36	36.94' LT.	779.88	764.44	764.05
	3+89.63	240WB+30.79	36.94' LT.	779.88	765.29	764.01
	3+89.63	240WB+30.79	36.94' LT.	789.31	765.29	764.01
	4+00.00	240WB+20.43	36.94' LT.	789.17	767.84	763.85
	4+25.00	239WB+95.43	36.94' LT.	788.66	773.94	762.51
	4+50.00	239WB+70.43	36.94' LT.	788.02	780.04	763.96
	4+75.00	239WB+45.43	36.94' LT.	787.56	786.15	765.98
	4+80.43	239WB+40.00	36.94' LT.	787.46	787.47	766.31

TOTAL ESTIMATED QUANTITIES

BID ITEM NUMBER	BID ITEMS	UNIT	TOTALS
502.3210	PIGMENTED SURFACE SEALER	SY	135
504.0500	CONCRETE MASONRY RETAINING WALLS	CY	121
505.0600	BAR STEEL REINFORCEMENT HS COATED STRUCTURES	LB	13,120
513.2001	RAILING PIPE R-70-150	LF	14
516.0500	RUBBERIZED MEMBRANE WATERPROOFING	SY	7
517.1010.S	CONCRETE STAINING R-70-150	SF	6,415
517.1050.S	ARCHITECTURAL SURFACE TREATMENT R-70-150	SF	5,065
612.0406	PIPE UNDERDRAIN WRAPPED 6-INCH	LF	400
614.0150	ANCHOR ASSEMBLIES FOR STEEL PLATE BEAM GUARD	EACH	1
SPV.0165	PRESTRESSED PRECAST CONCRETE WALL PANEL	SF	4,940
SPV.0165	WALL WIRE FACED MECHANICALLY STABILIZED EARTH LRFD/QMP	SF	4,940
	NON-BID ITEMS		
	PREFORMED JOINT FILLER	SIZE	1/2" & 3/4"
	NON-BITUMINOUS JOINT SEALER	SIZE	1/2" & 3/4"
	CORK FILLER	SIZE	1"
	EXPANDED POLYSTYRENE	SIZE	1"
	CLOSED CELL NEOPRENE FILLER	SIZE	1" X 1"



PIGMENTED SURFACE SEALER LIMITS DETAIL

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
STRUCTURES DESIGN SECTION

STRUCTURE R-70-150

DRAWN BY ABS | PLANS CK'D. EMK

QUANTITIES & WALL DATA

SHEET 2

511

SCALE = 1.00

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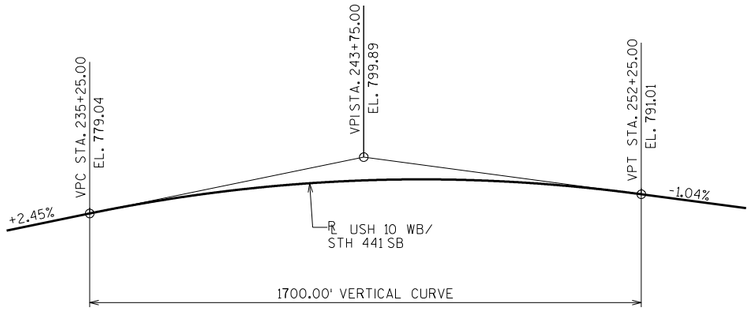
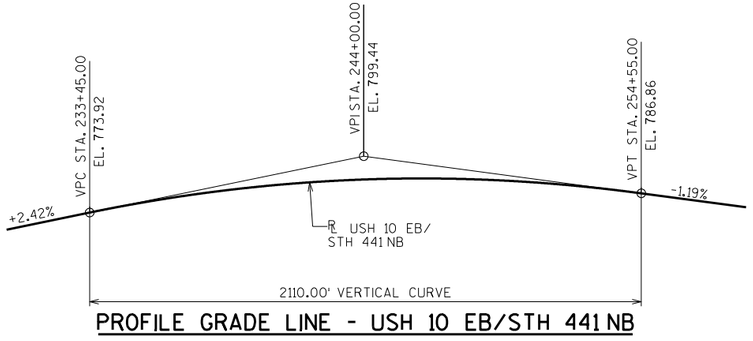
STATE PROJECT NUMBER

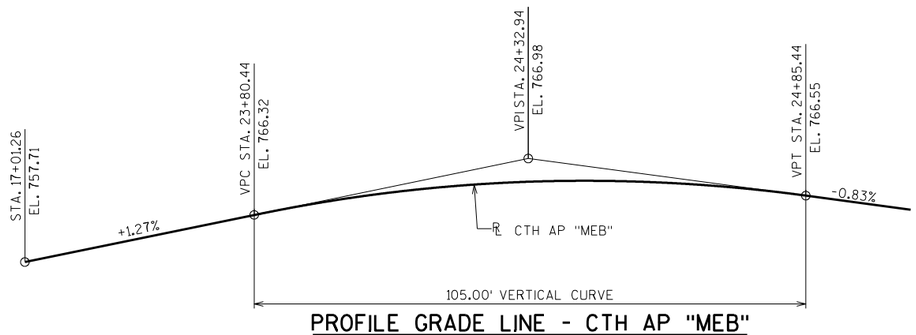
1517-75-72



PROFILE GRADE LINE - USH 10 WB/STH 441 SB



PROFILE GRADE LINE - USH 10 EB/STH 441 NB



PROFILE GRADE LINE - CTH AP "MEB"

GENERAL NOTES

DRAWINGS SHALL NOT BE SCALED

BEVEL ALL EXPOSED EDGES OF CONCRETE ¾" UNLESS OTHERWISE NOTED.

BAR STEEL REINFORCEMENT SHALL HAVE 2" CLEAR COVER UNLESS OTHERWISE SHOWN OR NOTED.

ALL BAR STEEL REINFORCEMENT IN CAST-IN-PLACE CONCRETE IS TO BE EPOXY COATED.

SEAL ALL EXPOSED HORIZONTAL AND VERTICAL SURFACES OF JOINT FILLER WITH NON-STAINING GRAY NON-BITUMINOUS JOINT SEALER (1" DEEP & HOLD 1/8" BELOW THE SURFACE OF CONCRETE).

ALL WALL STATIONING AND OFFSETS ARE GIVEN AT THE FRONT FACE OF WALL R-70-150.

THE EXISTING GROUND LINE IS THE UPPER LIMITS OF EXCAVATION FOR STRUCTURES.

THE PLAN QUANTITY FOR THE BID ITEM "WALL WIRE FACED MECHANICALLY STABILIZED EARTH LRFD/QMP" IS BASED ON A WALL HEIGHT MEASURED FROM THE TOP OF THE WALL TO FINISHED GRADE.

HOT DIP GALVANIZE ALL STRUCTURAL STEEL CARBON IN ACCORDANCE WITH ASTM A123 WHERE SHOWN.

OPTIONAL TRANSVERSE CONSTRUCTION JOINTS ARE PERMITTED IN THE FOOTING WITH A MINIMUM SPACING OF TWO PANEL WIDTHS. FOOTING JOINTS SHALL BE OFFSET A MINIMUM OF 1'-0" FROM WALL JOINTS. RUN BAR STEEL THRU FOOTING JOINTS.

THE COST OF FURNISHING AND PLACING THE FOOTING UNDER THE PRESTRESSED PRECAST CONCRETE WALL PANELS IS INCEDENTAL TO THE BID ITEM "PRESTRESSED PRECAST CONCRETE WALL PANEL".

THE QUANTITY OF CONCRETE MASONRY & REINFORCING STEEL FOR THE CAST-IN-PLACE ANCHOR SLAB AND TRAFFIC BARRIER ARE PAID FOR BY "CONCRETE MASONRY RETAINING WALLS" AND "BAR STEEL REINFORCEMENT HS COATED STRUCTURES" BID ITEMS.

DO NOT PERMIT CONCRETE OR FILL TO ACCUMULATE IN THE WALL CAVITY BETWEEN THE WIRE FACED MSE WALL AND PRECAST CONCRETE WALL PANEL.

AT THE BEGINNING AND END OF WALL, SEAL OPENING BETWEEN FACE OF WIRE FACED WALL AND PRECAST CONCRETE WALL PANEL WITH 1'-6" WIDE COLUMN OF CONCRETE. THIS IS INCIDENTAL TO THE BID ITEM "PRESTRESSED PRECAST CONCRETE WALL PANEL".

THE VOLUME OF EARTHWORK REQUIRED TO INSTALL THE FOOTING, WIRE FACED WALL, MSE BACKFILL, AND SOIL REINFORCEMENT IS INCIDENTAL TO THE BID ITEM "WALL WIRE FACED MECHANICALLY STABILIZED EARTH LRFD/QMP".

QUANTITIES AND REINFORCEMENT DETAILS ARE BASED ON AN ASSUMED CONCRETE WALL PANEL THICKNESS OF 9" AND A PANEL EMBEDMENT OF 6". FOR PANEL THICKNESS OR PANEL EMBEDMENT DIFFERENT THAN THESE VALUES, THE CONTRACTOR SHALL VERIFY REINFORCEMENT BAR DETAILS AND QUANTITIES AND WILL BE RESPONSIBLE FOR ANY QUANTITY VARIATIONS.

PIGMENTED SURFACE SEALER TO BE APPLIED TO THE TRAFFIC SIDE AND THE TOP OF THE PARAPET AND THE EXPOSED ANCHOR SLAB SURFACE.

COORDINATE THE CONSTRUCTION OF RETAINING WALL R-70-150 WITH THE SOUTH ABUTMENTS OF BRIDGE B-70-423 & B-70-424.

THE DESIGN OF THE WALL IN FRONT OF THE ABUTMENT SHALL INCLUDE THE HORIZONTAL EARTH LOADS AND 240 PSF LIVE LOAD SURCHARGE ACTING ON THE BACK OF THE ABUTMENT BELOW THE BEAM SEATS.

SEE SPECIAL PROVISIONS FOR AESTHETIC TREATMENT OF WALL.

8

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STATE OF WISCONSIN
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STRUCTURES DESIGN SECTION

STRUCTURE R-70-150

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PROFILE GRADE LINES & NOTES

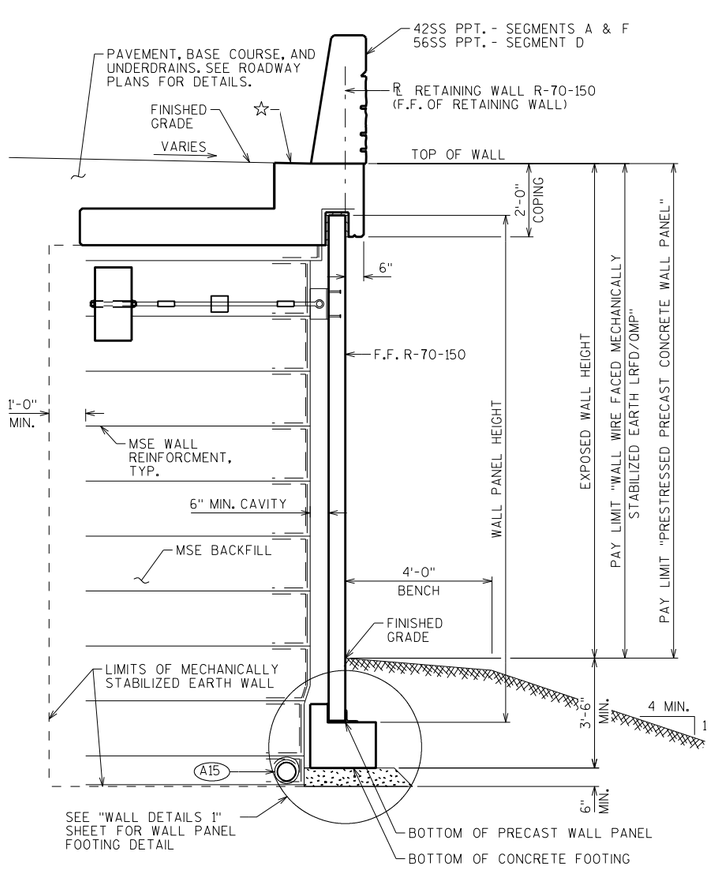
SHEET 3

512

SCALE = 1.00

STATE PROJECT NUMBER

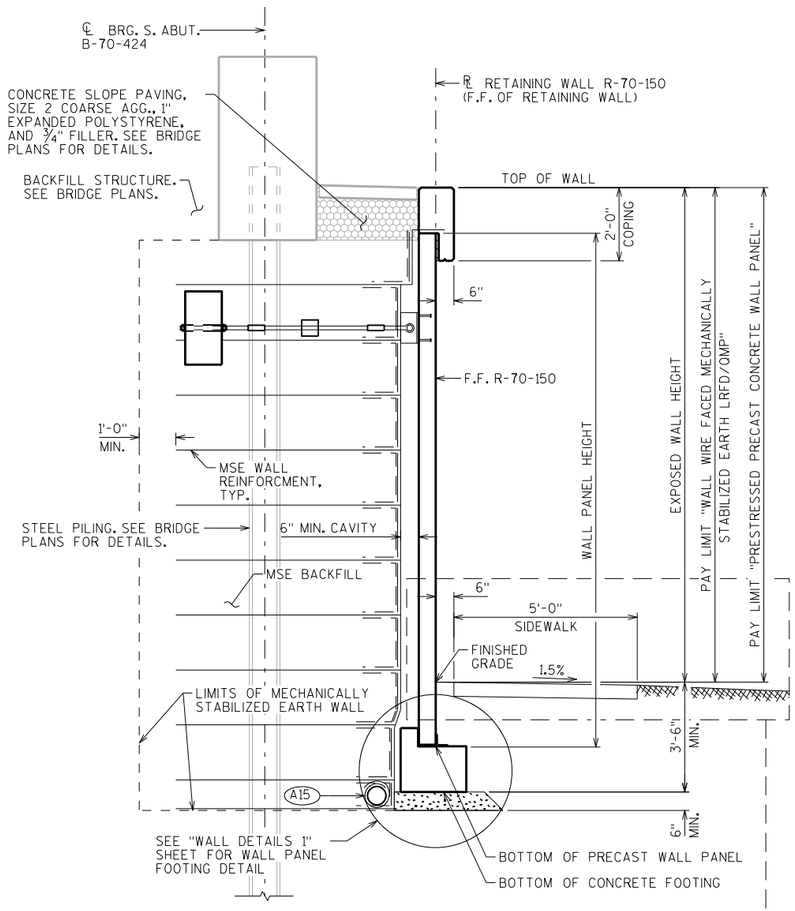
1517-75-72



TYPICAL SECTION

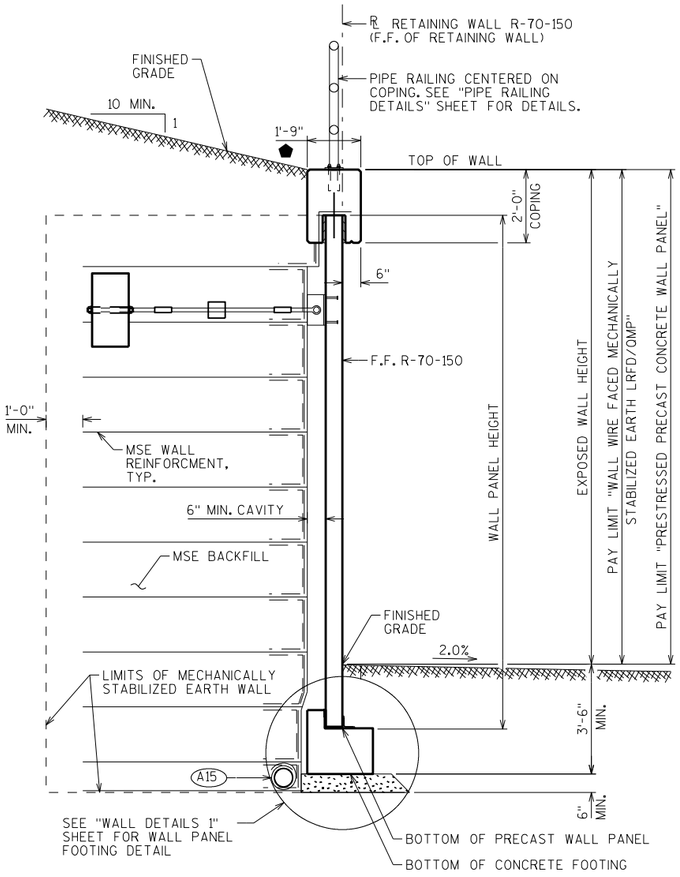
LOOKING NORTH
SEGMENT A SHOWN
SEGMENT D SIMILAR
SEGMENT F SIMILAR

☆ SLOPE TO MATCH ROADWAY



TYPICAL SECTION AT ABUTMENT

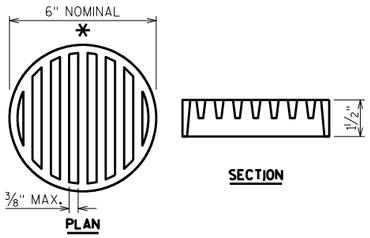
LOOKING WEST
SEGMENT E @ B-70-424 SHOWN
SEGMENT B @ B-70-423 SIMILAR



TYPICAL SECTION AT ABUTMENT

LOOKING WEST
SEGMENT C SHOWN

⬟ DIMENSION ASSUME 9" THICK PRECAST PRESTRESSED WALL PANEL. ADJUST AS NEEDED.

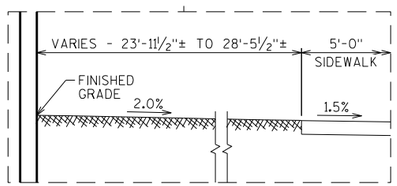


RODENT SHIELD DETAIL

✱ DIMENSIONS ARE APPROXIMATE. THE GRATE IS SIZED TO FIT INTO A PIPE COUPLING. ORIENT SO SLOTS ARE VERTICAL.

THE RODENT SHIELD, PIPE COUPLING AND SCREWS SHALL BE CONSIDERED INCIDENTAL TO THE BID ITEM "PIPE UNDERDRAIN WRAPPED 6-INCH".

THE RODENT SHIELD SHALL BE A PVC GRATE SIMILAR TO THIS DETAIL. THE GRATE IS COMMERCIALLY AVAILABLE AS A FLOOR STRAINER. A PIPE COUPLING IS REQUIRED FOR THE ATTACHEMENT OF THIS SHIELD TO THE EXPOSED END OF THE PIPE UNDERDRAIN. THE SHIELD SHALL BE FASTENED TO THE PIPE COUPLING WITH TWO OR MORE NO. 10 X 1-INCH STAINLESS STEEL SHEET METAL SCREWS.



SECTION AT B-70-423 ABUTMENT

SECTIONS SHOW FINISHED ROADWAY FOR CTH AP "MEB", WHICH IS TO BE COMPLETED IN A FUTURE CONTRACT

(A15) PIPE UNDERDRAIN WRAPPED (6-INCH). SLOPE 0.5% MIN. TO SUITABLE DRAINAGE. RODENT SHIELD REQUIRED.

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STRUCTURE R-70-150

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WALL CROSS SECTIONS

SHEET 4

513

SCALE = 2.00

8

8

STATE PROJECT NUMBER

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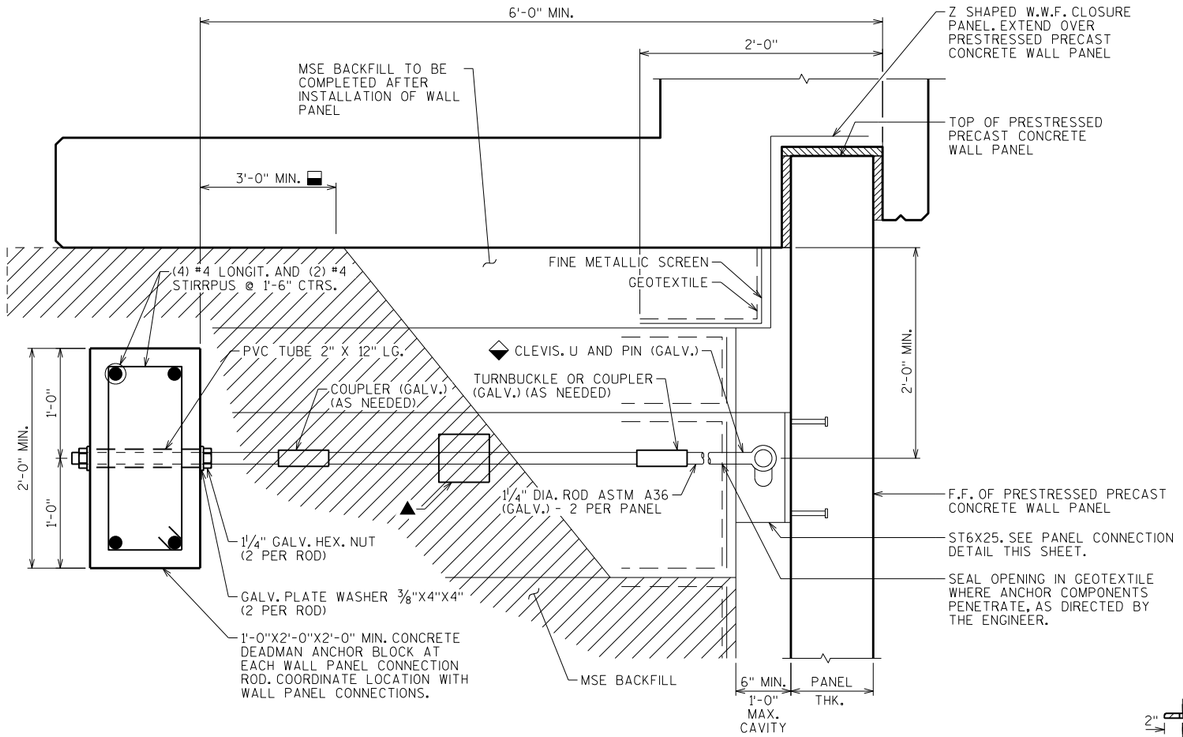


WALL PANEL ANCHOR DETAIL

NOTES

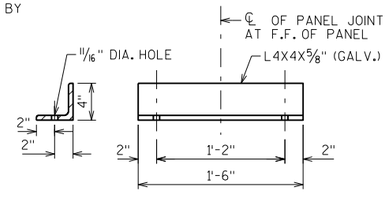
CLEVIS, CLEVIS PIN, COUPLER, MULTIDIRECTIONAL CONNECTOR, AND TURNBUCKLE TO BE CORROSION RESISTANT AND DEVELOP 125% OF THE ULTIMATE STRENGTH OF THE 1¼" DIAMETER ROD.

ST6X25, ROD, CONNECTING HARDWARE, AND DEADMAN ANCHOR INCLUDING ALL ASSOCIATED REINFORCEMENT ARE INCLUDED IN THE BID ITEM "PRESTRESSED PRECAST CONCRETE WALL PANEL."

FORCES APPLIED TO THE DEADMAN ANCHOR MUST BE ACCOUNTED FOR IN THE DESIGN OF MSE REINFORCEMENT WHEN SATISFYING FORCE AND MOMENT EQUILIBRIUM.

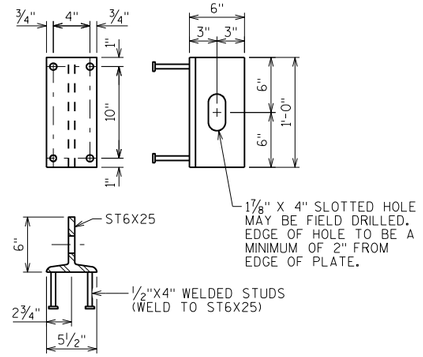
LEGEND

- ⬓ CONTRACTOR TO DESIGN LENGTH TO PROVIDE REQUIRED HORIZONTAL CAPACITY OF ANCHOR ASSEMBLY. MINIMUM OF 3'-0" OF COMPACTED FILL IN FRONT OF DEADMAN ANCHOR PRIOR TO WALL PANEL ERECTION AND ROD TO BE 2'-0" MIN. BELOW TOP OF REINFORCED SOIL ZONE.
- ◆ CLEVIS TO BE INSTALLED TOWARDS THE TOP OF THE SLOTTED HOLE, TO ALLOW FOR SETTLEMENT OF THE WIRE FACED MSE WALL.
- ▲ OPTIONAL MULTIDIRECTIONAL CONNECTOR MAY BE USED TO FACILITATE ALIGNMENT AT THE CONNECTION
- ⬕ INCIDENTAL TO THE BID ITEM "PRESTRESSED PRECAST CONCRETE WALL PANEL".
- (A15) PIPE UNDERDRAIN WRAPPED (6-INCH). SLOPE 0.5% MIN. TO SUITABLE DRAINAGE. RODENT SHIELD REQUIRED.



BASE ANGLE DETAIL

CENTERED ON PANEL JOINT OR AT EACH FOOTING END OR STEP ELEVATION.
INCLUDED IN BID ITEM "PRESTRESSED PRECAST CONCRETE WALL PANEL".

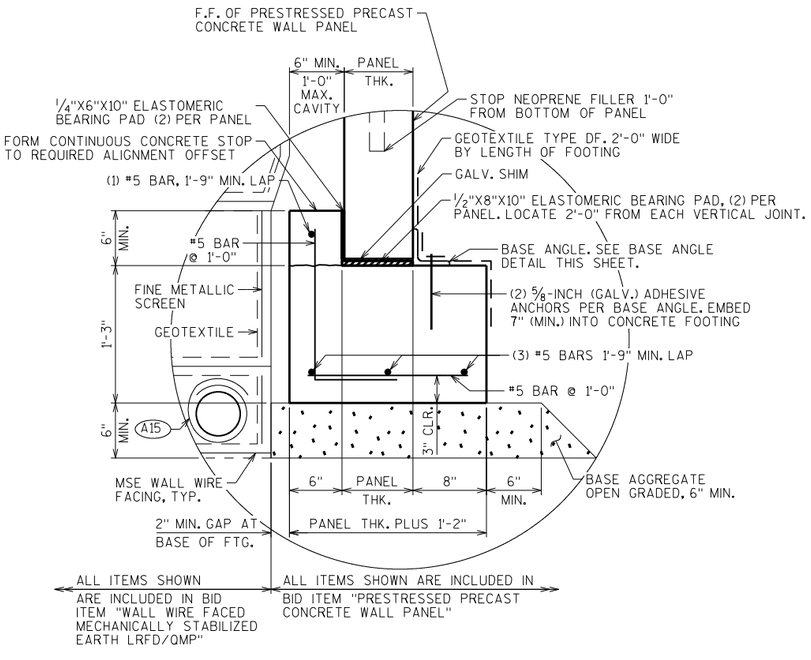


PANEL CONNECTION DETAIL

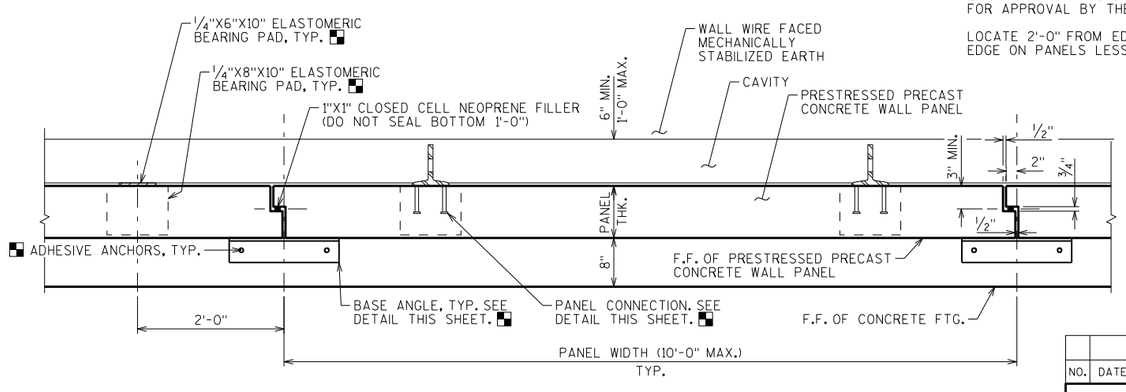
AS AN ALTERNATIVE, ½" (GALV) ADHESIVE ANCHORS MAY BE USED TO AVOID AN OBSTRUCTION. ALTERNATEIVE SHALL BE LIMITED TO ONE PANEL CONNECTION PER PANEL.

ST6X25 MAY BE WELDED TO ¾" THICK PLATE WITH (4) ½"X4" STUDS ANCHORED IN PRECAST CONCRETE PANEL. RESTORE ZINC COATING AROUND ANY WELDED AREAS. SUBMIT DETAILS FOR APPROVAL BY THE ENGINEER.

LOCATE 2'-0" FROM EDGE ON 10'-0" PANELS AND 1'-0" FROM EDGE ON PANELS LESS THAN 10'-0".



WALL PANEL FOOTING DETAIL



TYPICAL WALL PANEL CONNECTION - PLAN VIEW

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STRUCTURES DESIGN SECTION

STRUCTURE R-70-150

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WALL DETAILS 1

SHEET 5

514

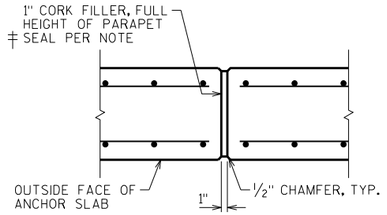
SCALE = 2.00

8

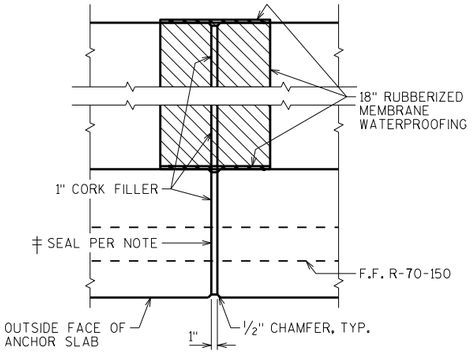
8

STATE PROJECT NUMBER

1517-75-72



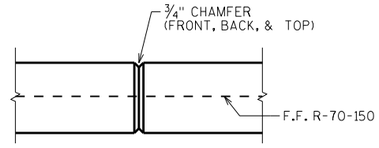
PARAPET EXPANSION JOINT DETAIL



ANCHOR SLAB EXPANSION JOINT DETAIL

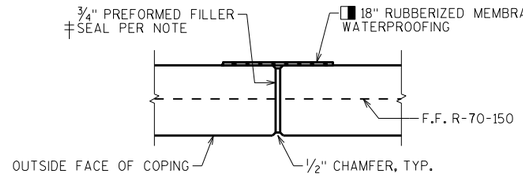
EXPANSION JOINTS TO BE SPACED AT A MINIMUM OF 20' AND A MAXIMUM OF 30'. LOCATE EXPANSION JOINTS OVER WALL JOINTS. DO NOT RUN BAR STEEL THRU JOINT, EXCEPT FOR DOWEL BARS. JOINT TO EXTEND FULL DEPTH OF PARAPET AND ANCHOR SLAB.

‡ SEAL ALL EXPOSED HORIZ. & VERT. SURFACES OF FILLER WITH NON-STAINING GRAY NON-BITUMINOUS JOINT SEALER. (1" DEEP AND HOLE 1/8" BELOW SURFACE OF CONC.)



COPING CONTRACTION JOINT

DO NOT RUN BAR STEEL THRU JOINT.
MAX. SPACING OF JOINT = 12"

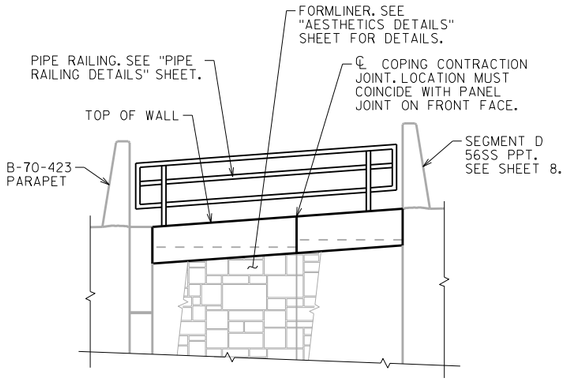


COPING EXPANSION JOINT

DO NOT RUN BAR STEEL THRU JOINT.
MAX. SPACING OF JOINT = 50'

‡ SEAL ALL EXPOSED HORIZ. & VERT. SURFACES OF FILLER WITH NON-STAINING GRAY NON-BITUMINOUS JOINT SEALER. (1" DEEP AND HOLE 1/8" BELOW SURFACE OF CONC.)

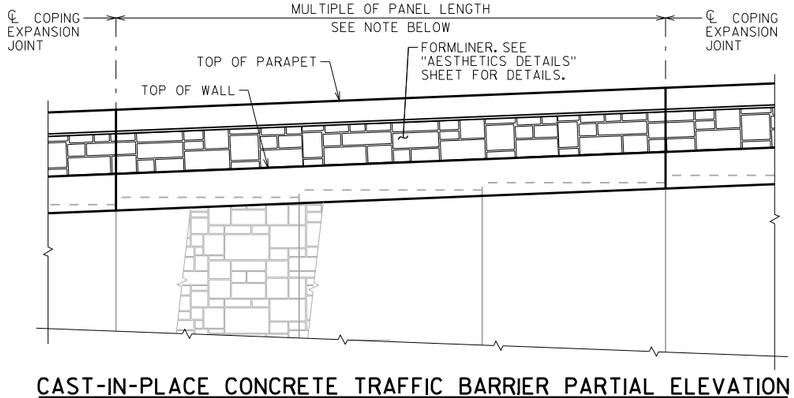
◨ MEMBRANE WATERPROOFING TO EXTEND FROM TOP OF COPING TO 6" BELOW TOP OF PANELS.



CAST-IN-PLACE COPING PARTIAL ELEVATION

LOOKING AT F.F. WALL
SEGMENT C

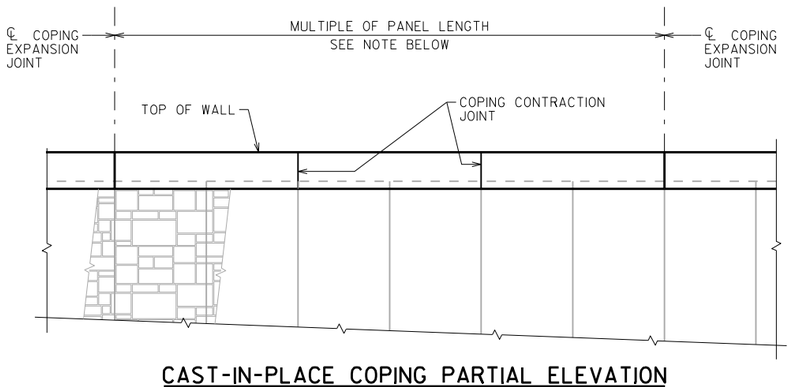
NOTE:
ALL JOINTS MUST COINCIDE WITH PANEL JOINT ON FRONT FACE.



CAST-IN-PLACE CONCRETE TRAFFIC BARRIER PARTIAL ELEVATION

LOOKING AT F.F. WALL
SEGMENTS A, D, & F

NOTE:
ALL JOINTS MUST COINCIDE WITH PANEL JOINT ON FRONT FACE.



CAST-IN-PLACE COPING PARTIAL ELEVATION

LOOKING AT F.F. WALL
SEGMENTS B & E

NOTE:
ALL JOINTS MUST COINCIDE WITH PANEL JOINT ON FRONT FACE.

8

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STRUCTURE R-70-150

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WALL DETAILS 2

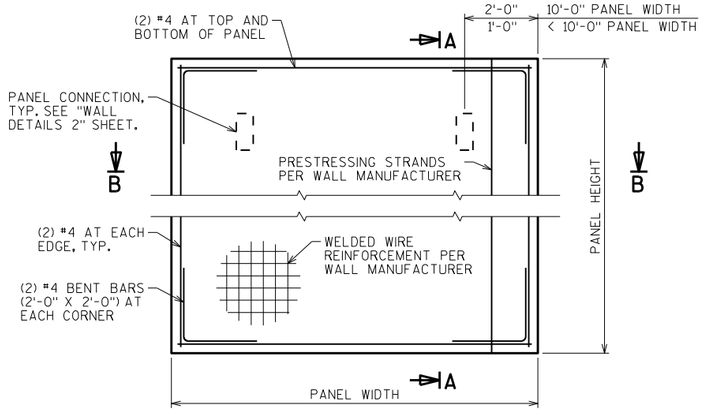
SHEET 6

515

SCALE = 2.00

STATE PROJECT NUMBER

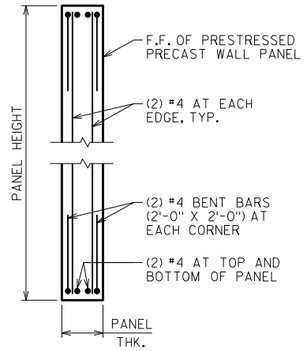
1517-75-72



ELEVATION - TYPICAL PRESTRESSED PRECAST CONCRETE WALL PANEL

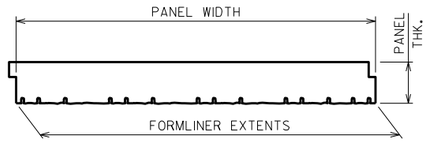
BAR STEEL REINF. AND CONCRETE ARE INCLUDED IN BID ITEM "PRESTRESSED PRECAST CONCRETE WALL PANEL".

PRECAST PANELS 6 FEET OR LESS IN HEIGHT DO NOT REQUIRE PRESTRESSING STRANDS.

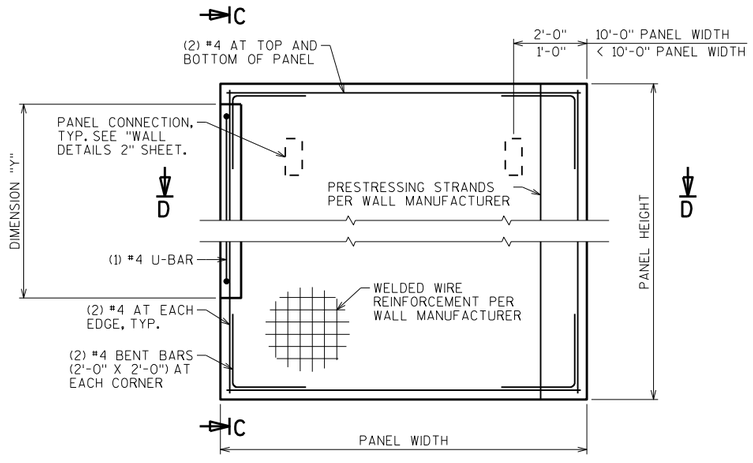


SECTION A-A

PRESTRESSING STRANDS NOT SHOWN FOR CLARITY



SECTION B-B

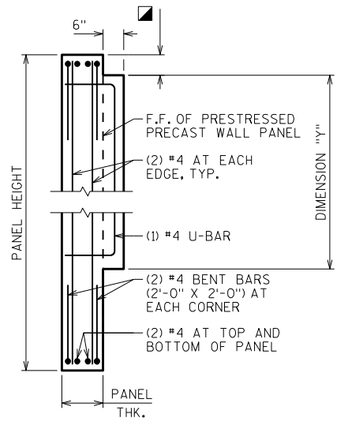


ELEVATION - SPECIAL PRESTRESSED PRECAST CONCRETE WALL PANEL

BAR STEEL REINF. AND CONCRETE ARE INCLUDED IN BID ITEM "PRESTRESSED PRECAST CONCRETE WALL PANEL".

"LEFT-HAND" PANEL SHOWN. "RIGHT-HAND" PANEL SIMILAR.

SEE "SECTION AT BACK FACE OF ABUT." ON "ANCHOR SLAB & COPING DETAILS 2" SHEET.

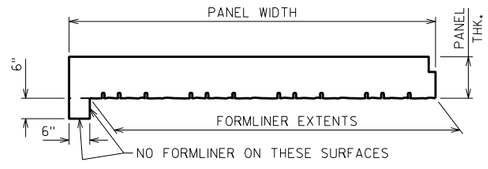


SECTION C-C

PRESTRESSING STRANDS NOT SHOWN FOR CLARITY

"LEFT-HAND" PANEL SHOWN. "RIGHT-HAND" PANEL SIMILAR.

◥ DEPENDENT ON PANEL EMBEDMENT INTO C.I.P COPING. 5" MIN.



SECTION D-D

"LEFT-HAND" PANEL SHOWN.
"RIGHT-HAND" PANEL SIMILAR.

SPECIAL PANEL FLANGE DIMENSION

APPROX. LOCATION (WALL STA.)	DIM. "Y"	ORIENTATION
2+08.80	6'-8 7/8"	RIGHT-HAND
3+11.92	6'-8 1/8"	RIGHT-HAND
3+89.69	7'-8 5/8""	LEFT-HAND

8

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STRUCTURE R-70-150

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WALL PANEL DETAILS

SHEET 7

516

SCALE = 2.00

STATE PROJECT NUMBER

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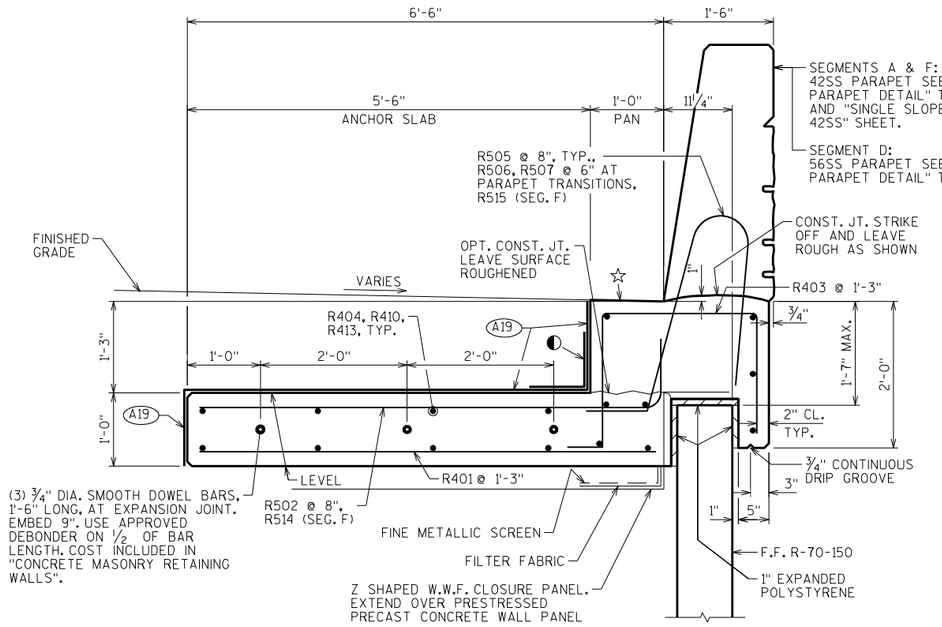
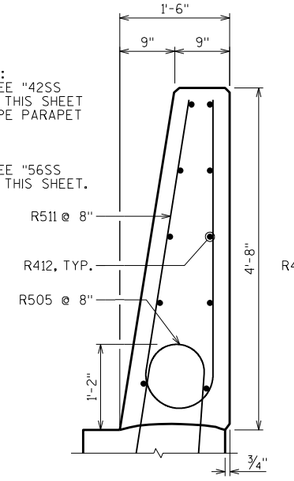
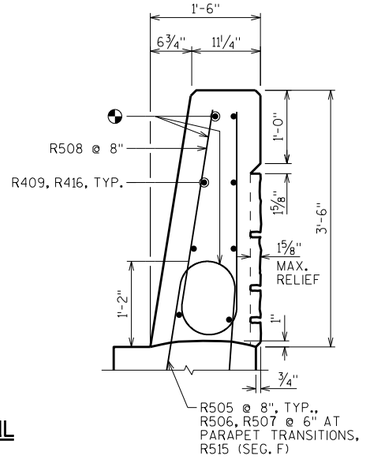


CAST-IN-PLACE CONCRETE TRAFFIC BARRIER DETAIL



56SS PARAPET DETAIL

SEGMENT D



42SS PARAPET DETAIL

SEGMENTS A & F

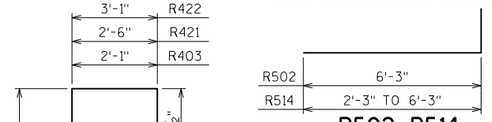
SEE "SINGLE SLOPE PARAPET 42SS" SHEET FOR ADDITIONAL DETAILS.

BILL OF BARS

NOTE: THE FIRST OR FIRST TWO DIGITS OF THE BAR MARK SIGNIFIES THE BAR SIZE

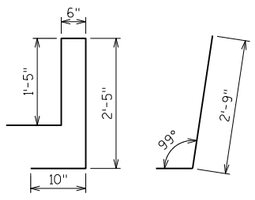
BAR MARK	COAT	NO. REQ'D. SEG. A	SEG. D	SEG. F	LENGTH	BENT	BAR SERIES	LOCATION
R401	X	95	18	78	6'-3"			BOTTOM - TRANS.
R502	X	169	33	140	7'-0"			TOP - TRANS.
R403	X	87	18	78	6'-0"	X		TOP - TRANS.
⚠ R404	X	16	--	--	109'-11"			LONGITUDINAL - SEG. A
R505	X	158	33	125	6'-3"	X		PARAPET - VERT.
R506	X	16	--	17	5'-6"	X		PPT. TRANSITION - VERT.
R507	X	11	--	12	3'-6"	X		PPT. TRANSITION - VERT.
R508	X	174	--	143	6'-8"	X		42SS PARAPET - VERT.
⚠ R409	X	8	--	--	78'-4"			42SS PARAPET - LONGIT. - SEG. A
⚠ R410	X	--	16	--	21'-5"			LONGITUDINAL - SEG. D
R511	X	--	33	--	6'-8"	X		56SS PARAPET - VERT. - SEG. D
R412	X	--	10	--	19'-8"			56SS PARAPET - LONGIT. - SEG. D
⚠ R413	X	--	--	16	90'-4"			LONGITUDINAL - SEG. F
R514	X	--	--	3	3'-9"	X	⬟	BOTTOM - TRANS. - SEG. F
R515	X	--	--	1	4'-5"	X		PARAPET - VERT. - SEG. F
⚠ R416	X	--	--	8	60'-3"			42SS PARAPET - LONGIT. - SEG. F
R417	X	12	--	--	2'-2"			ANCHOR SLAB - AT INLET
R518	X	6	--	--	1'-4"			ANCHOR SLAB - AT INLET - TOP
R519	X	6	--	--	7'-0"	X		PAN/ ANCHOR SLAB - AT INLET
R420	X	6	--	--	5'-1"	X		PAN - AT INLET
R421	X	2	--	--	6'-5"	X		TOP - TRANS.
R422	X	6	--	--	7'-0"	X		TOP - TRANS.
R423	X	4	--	--	6'-0"			PAN/ ANCHOR SLAB - AT INLET
R424	X	4	--	--	4'-11"	X		PAN/ ANCHOR SLAB - AT INLET

⬟ LENGTH SHOWN FOR BAR IS AN AVERAGE LENGTH AND SHOULD ONLY BE USED FOR BAR WEIGHT CALCULATIONS. SEE BAR SERIES TABLE FOR ACTUAL LENGTHS.

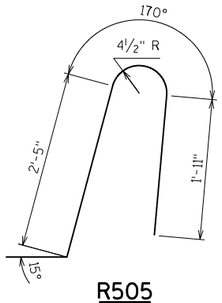


R403, R421, R422

R502, R514



R506 R507



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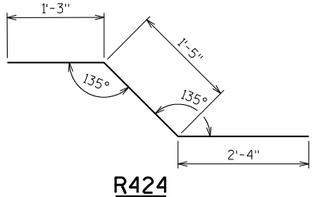
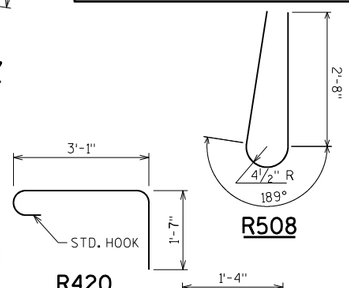
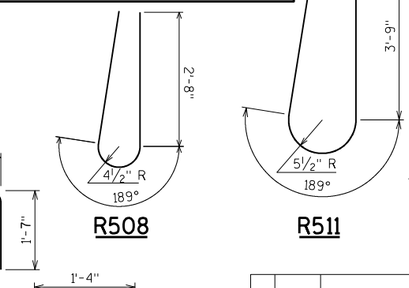


R424



R420 R508



R511 R515

NOTE: BAR QUANTITIES BASED UPON MAX. EXPANSION JOINT SPACING OF 30'-0" MAX. CONTRACTOR TO ADJUST QUANTITIES AS NEEDED FOR ACTUAL EXPANSION JOINT SPACING.

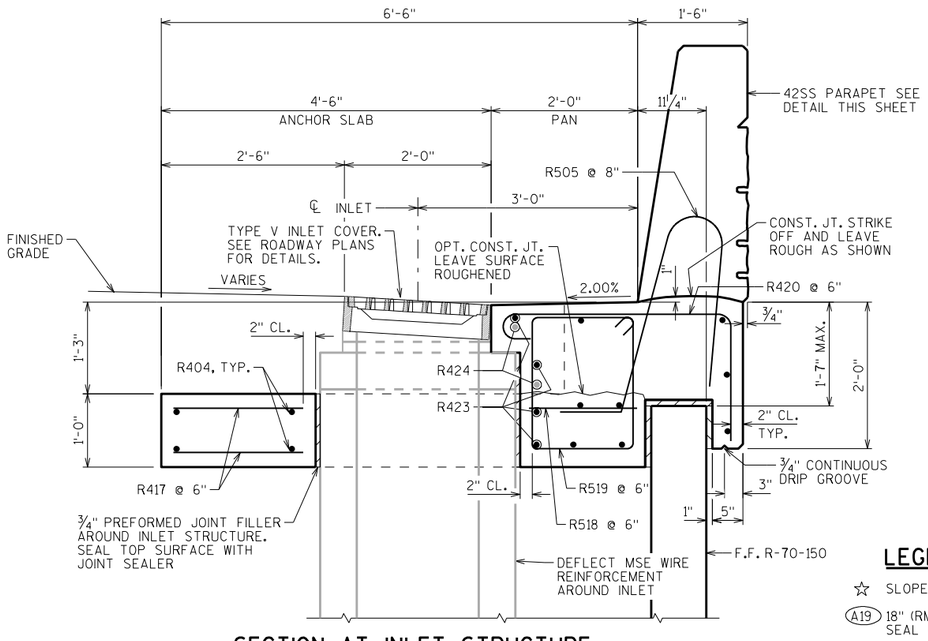
⚠ BAR LENGTH SHOWN IS LONGEST BAR IN THE DESCRIBED COMPONENT (END-TO-END ASSUMING NO JOINTS). FABRICATE OR CUT TO LENGTH AS REQUIRED BASED ON CONTRACTOR-DESIGNED EXPANSION JOINT SPACING.

REBAR FOR CAST-IN-PLACE COPING IS INCIDENTAL TO THE "PRESTRESSED PRECAST CONCRETE WALL PANEL" BID ITEM.

BAR SERIES TABLE

BAR MARK	NO. REQ'D	LENGTH
R401	1 SERIES OF 3	3'-0" TO 7'-0"

BUNDLE AND TAG EACH SERIES SEPARATELY.



SECTION AT INLET STRUCTURE

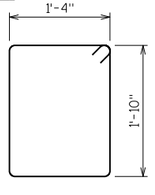
LEGEND

☆ SLOPE TO MATCH ROADWAY

(A19) 18" (RMW) RUBBERIZED MEMBRANE WATERPROOFING SEAL ALL HORIZ. & VERT. JOINTS AT BACKFACE.

◐ IF THE OPT. CONST. JT. IS USED, PLACE 18" RUBBERIZED MEMBRANE WATERPROOFING ALONG THE ENTIRE LONGITUDINAL JOINT. THE RUBBERIZED MEMBRANE WATERPROOFING SEALING THE OPT. CONST. JT. IS INCIDENTAL TO THE CONCRETE MASONRY BID ITEM.

INLET HOLE DIMENSIONS ARE BASED ON ASSUMED 2'-8" X 3'-2" INLET OUTER DIMENSIONS. RESIZE HOLE AS NECESSARY BASED ON ACTUAL INLET USED. ADJUST REINFORCEMENT LENGTHS TO ACCOMMODATE ACTUAL HOLE SIZE.



R519

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
STRUCTURES DESIGN SECTION

STRUCTURE R-70-150

DRAWN BY ABS | PLANS CK'D. EMK

ANCHOR SLAB & COPING DETAILS 1

SHEET 8

517

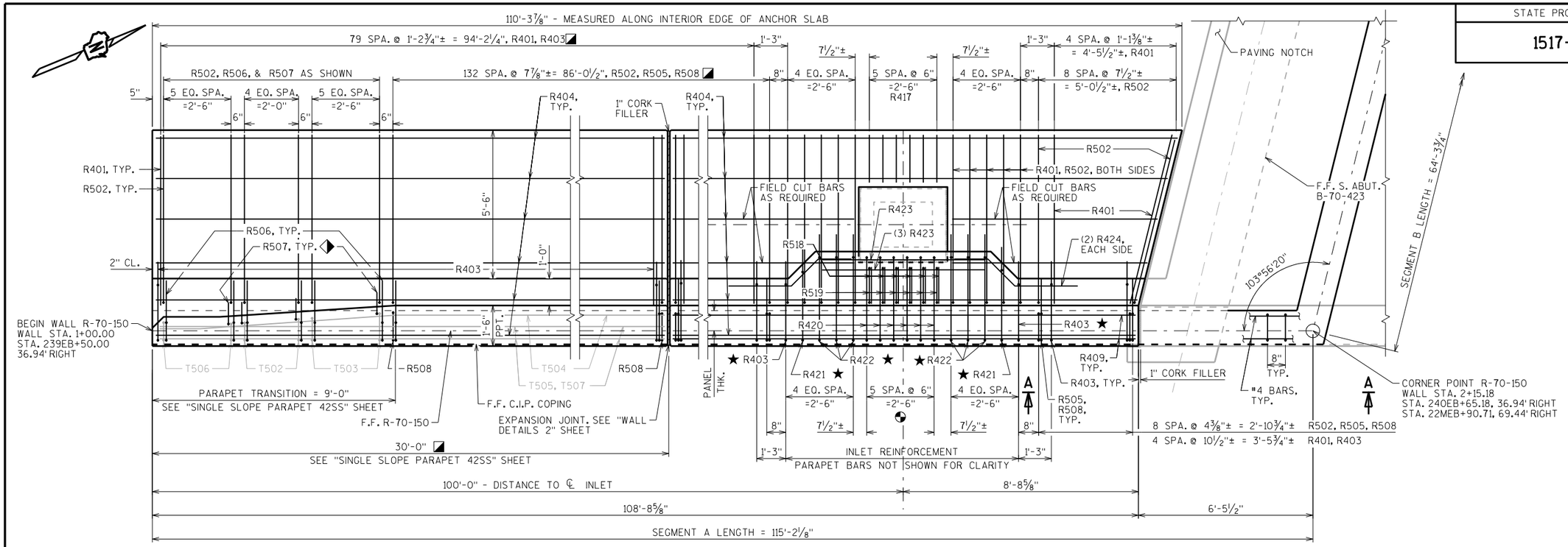
SCALE = 2.00

8

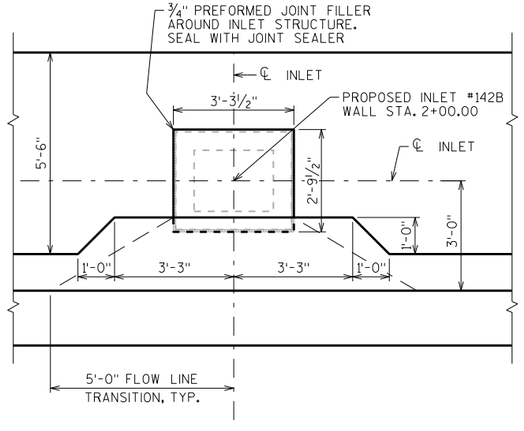
8

STATE PROJECT NUMBER

1517-75-72

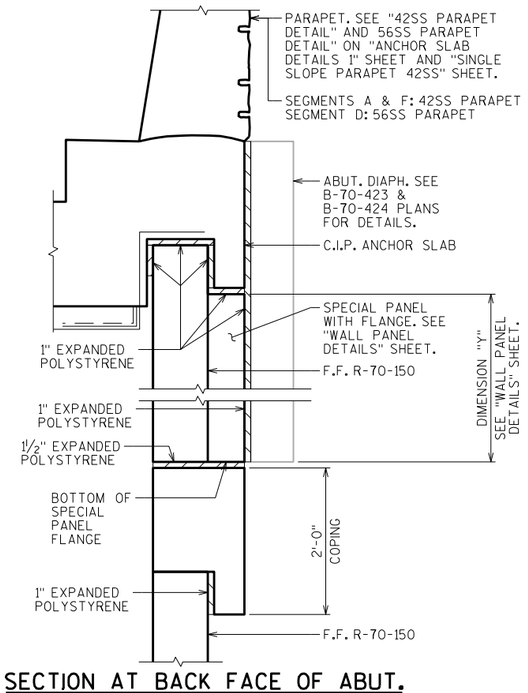


PLAN VIEW



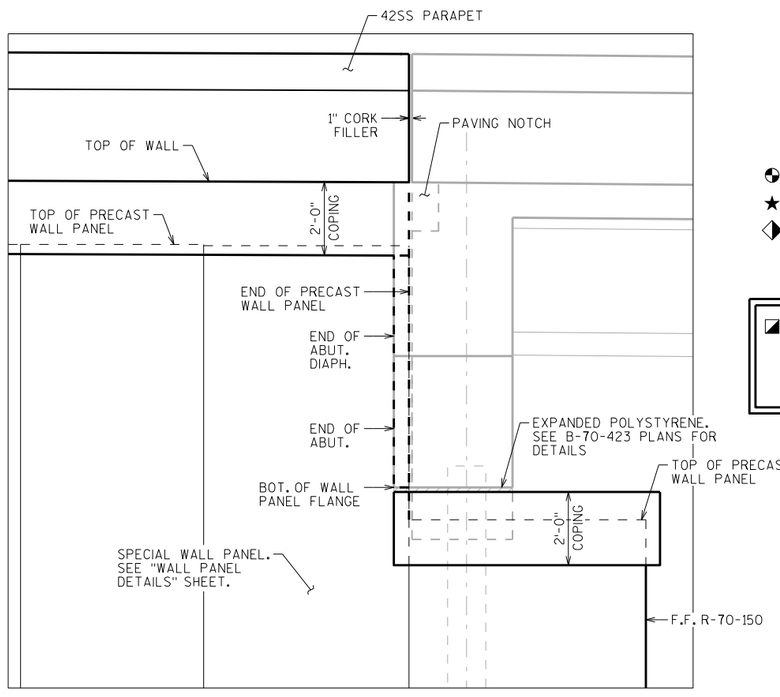
INLET TRANSITION DETAIL

INLET HOLE DIMENSIONS ARE BASED ON ASSUMED 2'-8" X 3'-2" OUTER DIMENSIONS. RESIZE HOLE AS NECESSARY BASED ON ACTUAL INLET USED. ADJUST REINFORCEMENT LENGTHS TO ACCOMMODATE ACTUAL HOLE SIZE.



SECTION AT BACK FACE OF ABUT.

SEGMENT A SHOWN
SEGMENTS D & F SIMILAR
SHOWING SPECIAL PANEL WITH FLANGE TO CLOSE GAP BETWEEN F.F. WALL AND ABUT. & ABUT. DIAPH.



ELEVATION A-A

LEGEND

- ◓ R518, R519, R420, R505, & R508
- ★ INCLUDES R401, R502, R505, & R508
- ◆ R507 BARS MAY BE PLACED AFTER CONCRETE IS POURED BUT BEFORE INITIAL SET HAS TAKEN PLACE. USE CARE TO PLACE R507 BARS CORRECTLY ALONG TRANSITION OF PARAPET.

◪ NOTE: SEGMENT A BARS DETAILED BASED UPON USE OF 3 ANCHOR SLAB EXPANSION JOINTS (MAX. SPA. OF 30'-0"). CONTRACTOR TO ADJUST BARS AND QUANTITIES AS NEEDED FOR ACTUAL EXPANSION JOINT SPACING.

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
STRUCTURES DESIGN SECTION

STRUCTURE R-70-150

DRAWN BY ABS | PLANS CK'D. EMK

ANCHOR SLAB & COPING DETAILS 2

SHEET 9

518

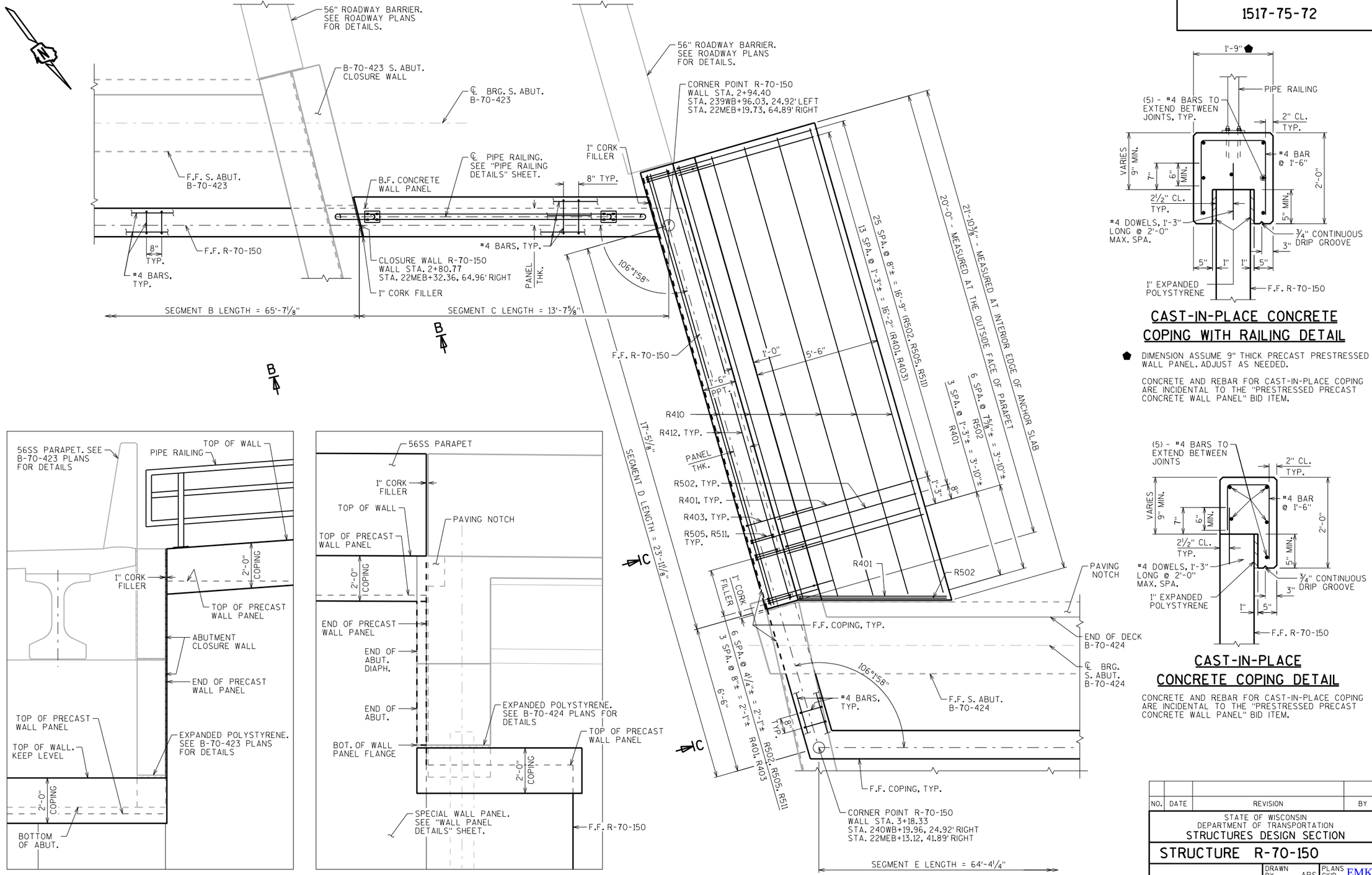
8

8

SCALE = 2.00

STATE PROJECT NUMBER

1517-75-72



ELEVATION B-B

ELEVATION C-C

CAST-IN-PLACE CONCRETE COPING WITH RAILING DETAIL

⬟ DIMENSION ASSUME 9" THICK PRECAST PRESTRESSED WALL PANEL. ADJUST AS NEEDED.

CONCRETE AND REBAR FOR CAST-IN-PLACE COPING ARE INCIDENTAL TO THE "PRESTRESSED PRECAST CONCRETE WALL PANEL" BID ITEM.

CAST-IN-PLACE CONCRETE COPING DETAIL

CONCRETE AND REBAR FOR CAST-IN-PLACE COPING ARE INCIDENTAL TO THE "PRESTRESSED PRECAST CONCRETE WALL PANEL" BID ITEM.

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
STRUCTURES DESIGN SECTION

STRUCTURE R-70-150

DRAWN BY ABS | PLANS CK'D. EMK

ANCHOR SLAB & COPING DETAILS 3

SHEET 10

519

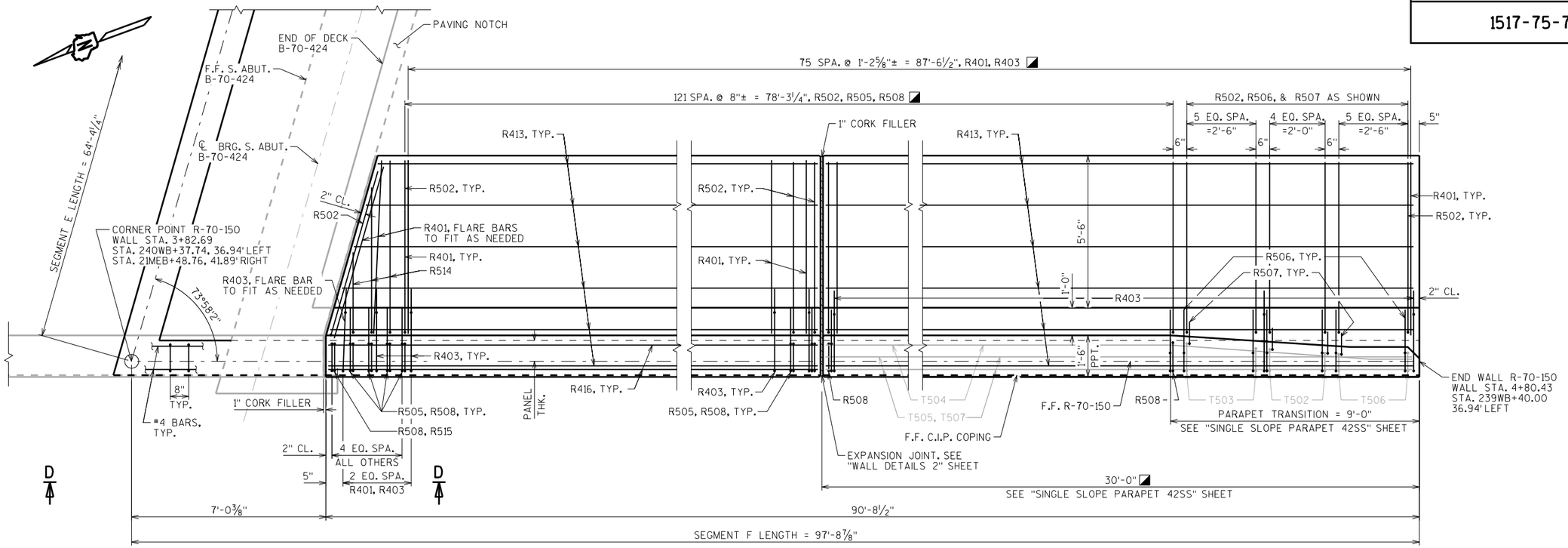
SCALE = 2.00

8

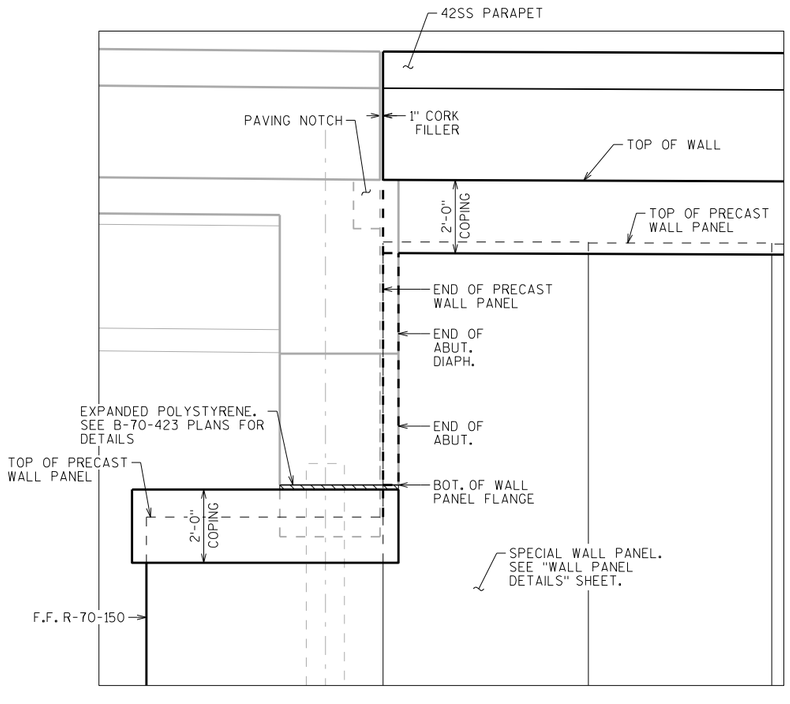
8

STATE PROJECT NUMBER

1517-75-72



PLAN VIEW



ELEVATION D-D

◪ NOTE: SEGMENT F BARS DETAILED BASED UPON USE OF 3 ANCHOR SLAB EXPANSION JOINTS (MAX. SPA. OF 30'-0"). CONTRACTOR TO ADJUST BARS AND QUANTITIES AS NEEDED FOR ACTUAL EXPANSION JOINT SPACING.

◆ R507 BARS MAY BE PLACED AFTER CONCRETE IS POURED BUT BEFORE INITIAL SET HAS TAKEN PLACE. USE CARE TO PLACE R507 BARS CORRECTLY ALONG TRANSITION OF PARAPET.

8

8

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
STRUCTURES DESIGN SECTION

STRUCTURE R-70-150

DRAWN BY ABS | PLANS CK'D. EMK

ANCHOR SLAB & COPING DETAILS 4

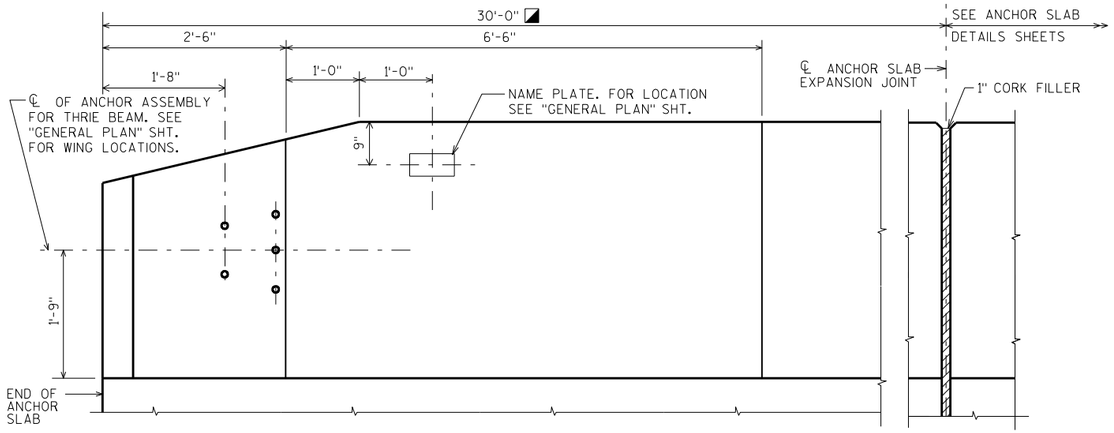
SHEET 11

520

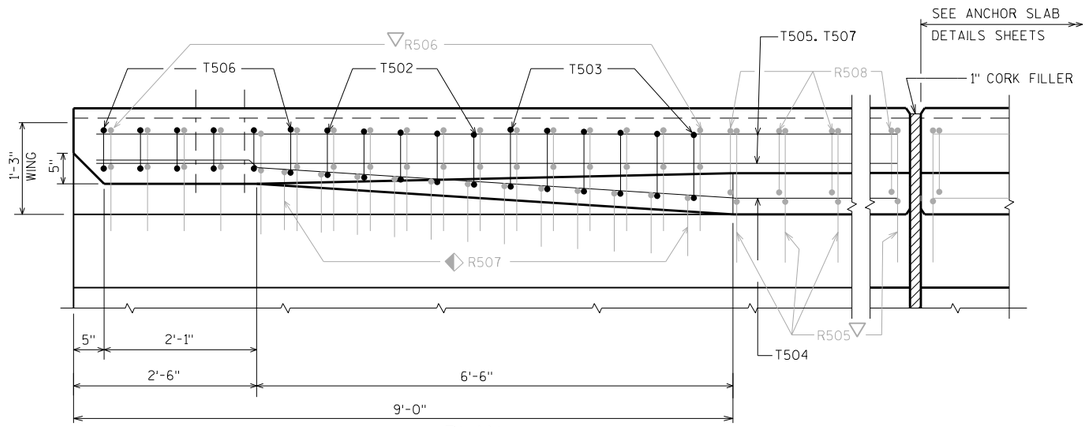
SCALE = 2.00

STATE PROJECT NUMBER

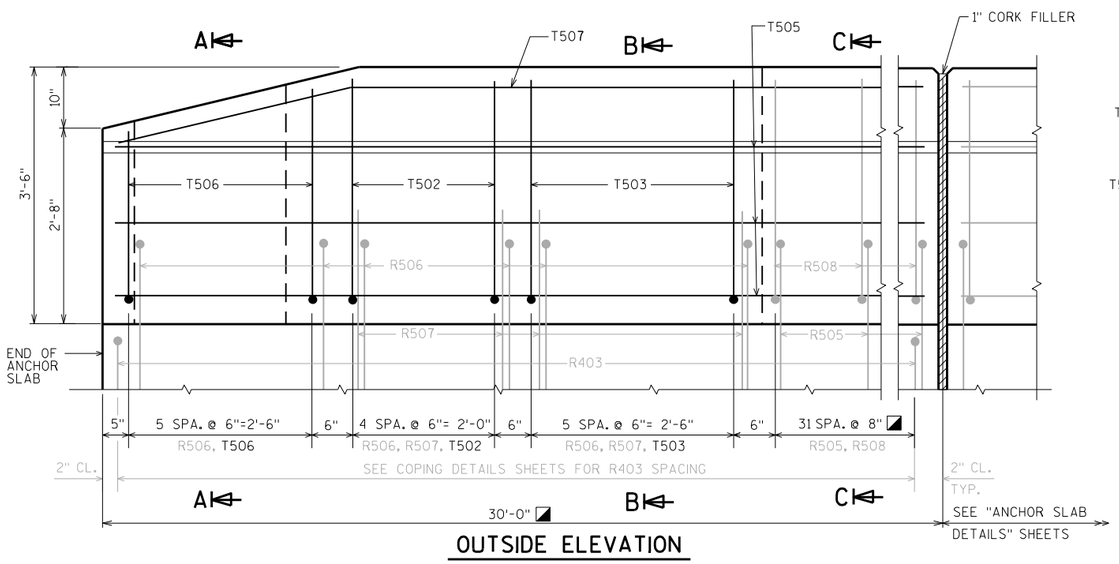
1517-75-72



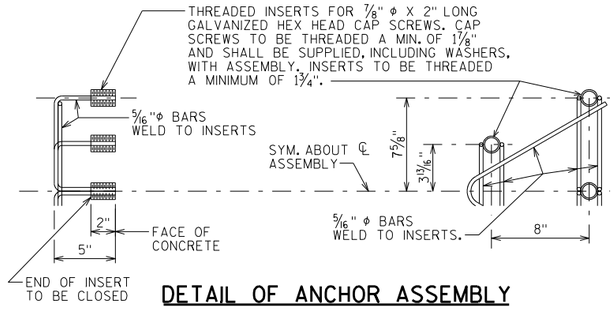
INSIDE ELEVATION



PLAN



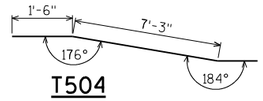
OUTSIDE ELEVATION



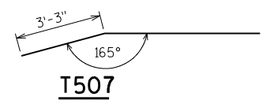
DETAIL OF ANCHOR ASSEMBLY

NOTE: HEX HEAD CAP SCREWS & WASHERS TO BE GALVANIZED IN ACCORDANCE WITH AASHTO M232 CLASS C.

ASSEMBLY SHALL BE BID ITEM "ANCHOR ASSEMBLIES FOR STEEL PLATE BEAM GUARD", EACH.



T504



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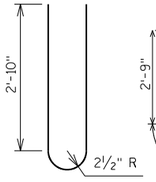

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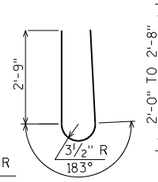

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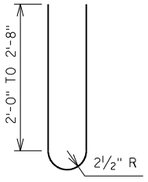
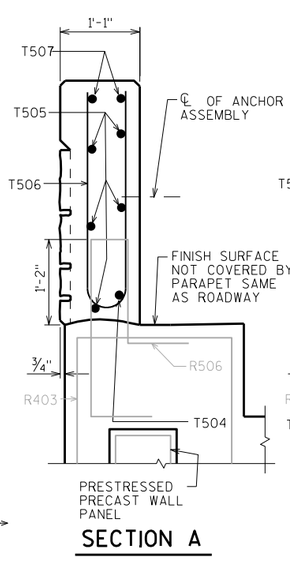
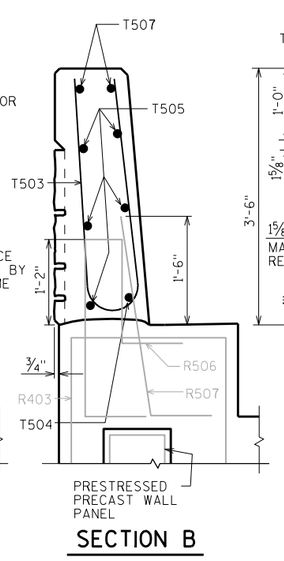


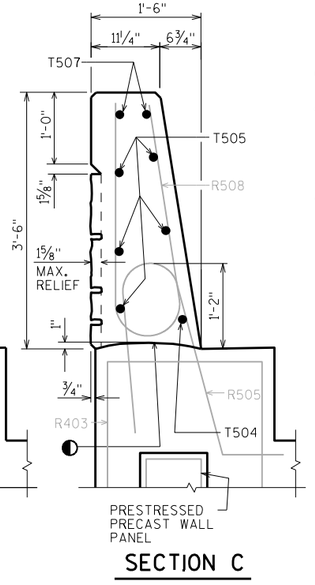
T506



SECTION A



SECTION B



SECTION C

BILL OF BARS

FOR PARAPET TRANSITION WALL SECTION

BAR MARK	COAT	SEG. A	SEG. F	LENGTH	BENT	BAR SERIES	LOCATION
T501				NOT USED			
T502	X	5	5	6'-5"	X		PARAPET VERT.
T503	X	6	6	6'-6"	X		PARAPET VERT.
T504	X	1	1	29'-8"	X		PARAPET HORIZ.
T505	X	5	5	29'-8"			PARAPET HORIZ.
T506	X	6	6	5'-5"	X	◭	PARAPET VERT.
T507	X	2	2	29'-8"	X		PARAPET HORIZ.

◭ LENGTH SHOWN FOR BAR IS AN AVERAGE LENGTH AND SHOULD ONLY BE USED FOR BAR WEIGHT CALCULATIONS. SEE BAR SERIES TABLE FOR ACTUAL LENGTHS.

BAR SERIES TABLE

MARK	NO. REQ'D	LENGTH
T506	2 SERIES OF 6	4'-9" TO 6'-1"

BUNDLE AND TAG EACH SERIES SEPARATELY.

◪ NOTE: BARS DETAILED BASED UPON EXPANSION JOINT SPACING OF 30'-0". CONTRACTOR TO ADJUST BARS AND QUANTITIES AS NEEDED FOR ACTUAL EXPANSION JOINT SPACING.

NOTE: FOR BARS WITH "R" BAR MARK, SEE COPING DETAILS SHEETS FOR DETAILS

◐ CONST. JOINT - STRIKE OFF AS SHOWN.

◆ R507 BARS MAY BE PLACED AFTER CONCRETE IS POURED BUT BEFORE INITIAL SET HAS TAKEN PLACE. USE CARE TO PLACE R507 BARS CORRECTLY ALONG TRANSITION OF PARAPET.

▽ R505 AND R506 BARS TO BE TIED TO ANCHOR SLAB STEEL BEFORE ANCHOR SLAB IS POURED.

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
STRUCTURES DESIGN SECTION

STRUCTURE R-70-150

DRAWN BY ABS | PLANS CK'D. EMK

SINGLE SLOPE PARAPET 42SS

SHEET 12

521

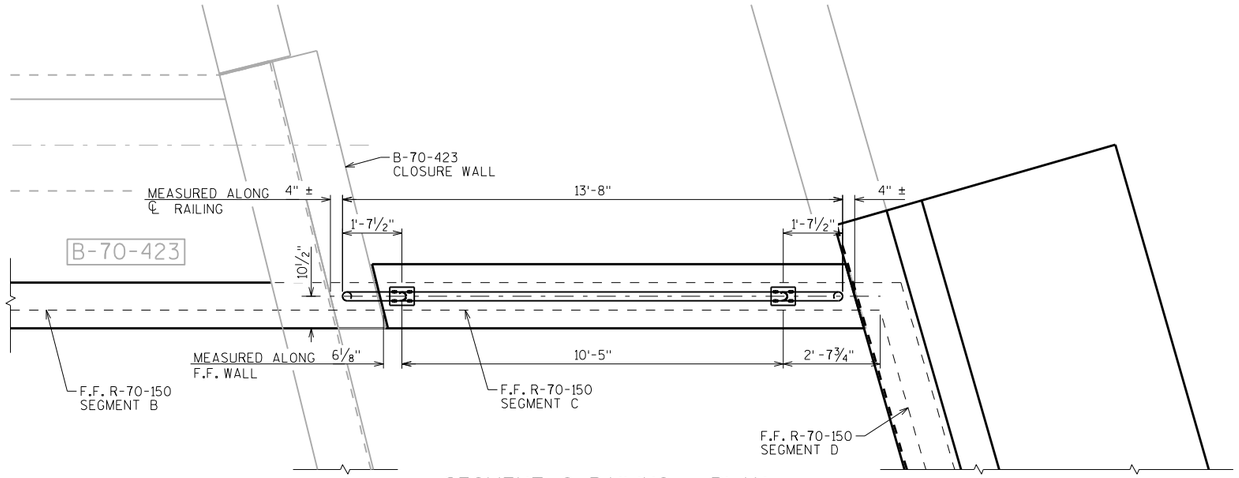
8

8

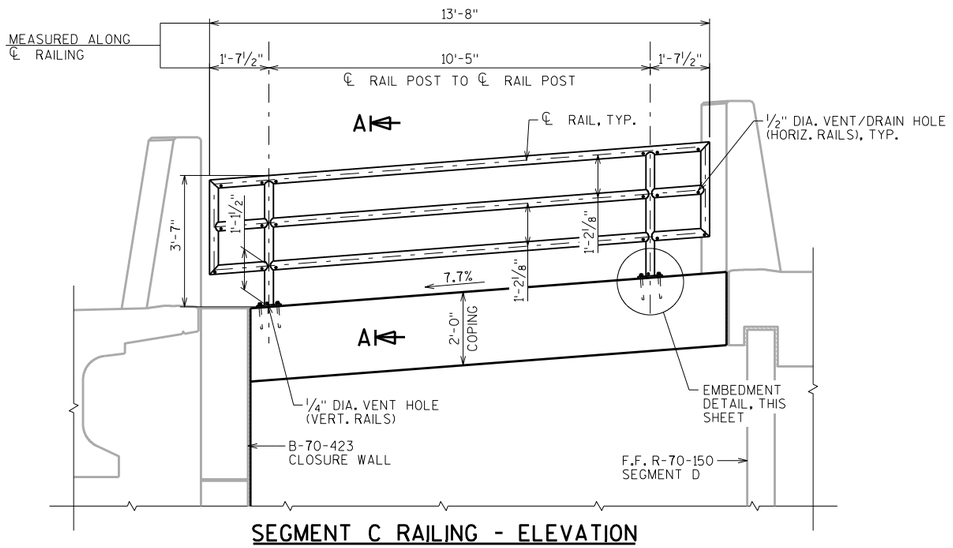
SCALE = 1.00

STATE PROJECT NUMBER

1517-75-72

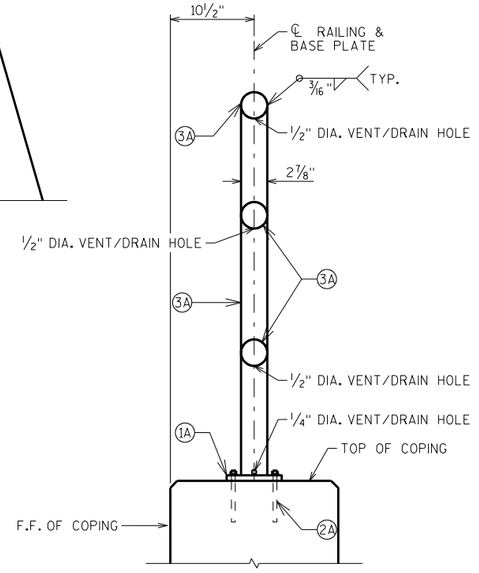


SEGMENT C RAILING - PLAN

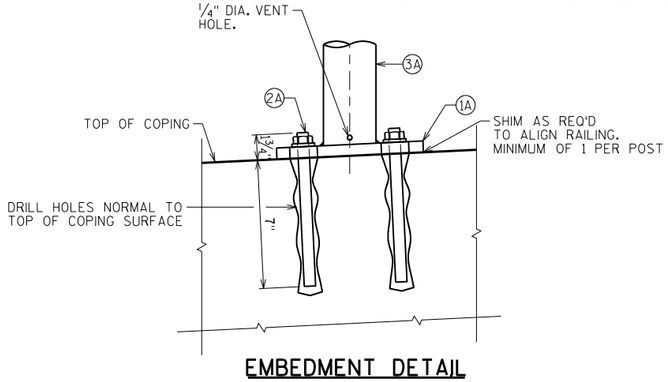


SEGMENT C RAILING - ELEVATION

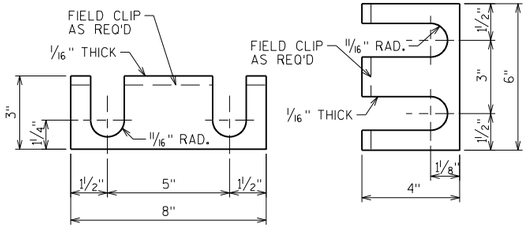
LOOKING AT FRONT FACE OF MEDIAN DIAPHRAGM



SECTION A-A

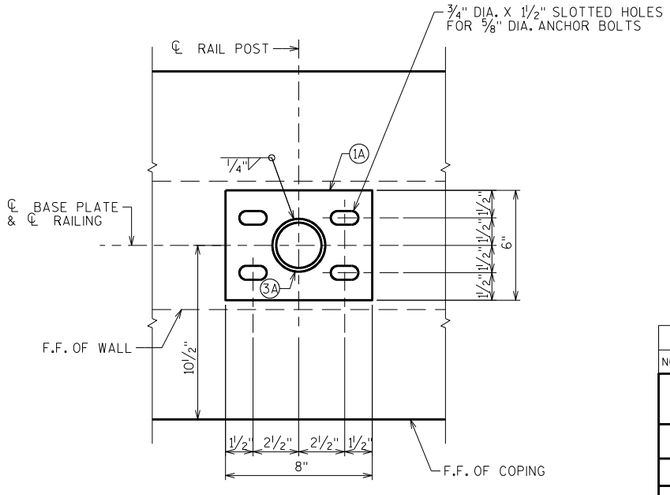


EMBEDMENT DETAIL



RAIL POST SHIM DETAIL

(2 SETS PER POST)



RAIL POST BASE PLATE

NOTES

BID ITEM SHALL BE "RAILING PIPE R-70-150", WHICH SHALL INCLUDE ALL STEEL ITEMS SHOWN, CONCRETE MASONRY ANCHORS, AND PAINTING.

POST BASE PLATES SHALL BE FLAT 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.

NO. 1A SHALL CONFORM TO A.S.T.M. A709 GRADE 36. STANDARD PIPE RAIL SHALL CONFORM TO A.S.T.M. A500 GRADE B (NO. 3A).

ANCHORAGES SHALL BE ACCURATELY PLACED TO PROVIDE CORRECT ALIGNMENT OF RAILING. SET NORMAL TO GRADE.

CUT BOTTOM OF POST TO MAKE POST VERTICAL IN BOTH TRANSVERSE ADN LONGITUDINAL DIRECTION.

STEEL SHIMS SHALL BE PROVIDED & USED UNDER BASE PLATES WHERE REQUIRED FOR ALIGNMENT.

FILL BOLT SLOT OPENINGS IN SHIMS AND PLATE NO. 1A AND CAULK AROUND PERIMETER OF PLATE NO. 1A WITH NON-STAINING BLACK NON-BITUMINOUS JOINT SEALER.

VENT HOLES SHALL BE DRILLED IN MEMBERS AS REQUIRED TO FACILITATE GALVANIZING AND DRAINAGE.

GALVANIZE AFTER FABRICATION AND THEN PAINT GALVANIZED RAILING ASSEMBLIES WITH A TWO COAT SYSTEM SPECIFICALLY INTENDED FOR PAINTING OF GALVANIZED SURFACES PER THE SPECIAL PROVISIONS. SHIMS SHALL BE GALVANIZED PER ASTM A123. THE FINISH COLOR SHALL BE FEDERAL COLOR NO. 27038 BLACK.

RAILING SHALL BE FABRICATED IN LENGTHS THAT INCLUDE 2 POSTS.

PAINT TOUCH-UP TO BE DONE AT COMPLETION OF STEEL RAILING INSTALLATION TO THE SATISFACTION OF THE ENGINEER AT NO EXTRA COST.

LEGEND

(1A) PLATE ⅝" X 8" X 6" WITH (4) ¾" WIDE 1½" SLOTTED HOLES

(2A) STAINLESS STEEL ADHESIVE ANCHORS 5/8-INCH (8¾" LONG) WITH NUT AND WASHER. EMBED 7" IN CONCRETE.

(3A) 2½" DIA. STANDARD PIPE RAIL (2.875" O.D.) PLACE POSTS VERTICAL. WELD TO 1A. PLACE RAILS PARALLEL TO TOP OF COPING. WELD TO 3A.

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
STRUCTURES DESIGN SECTION

STRUCTURE R-70-150

DRAWN BY ABS | PLANS CK'D. EMK

PIPE RAILING DETAILS

SHEET 13

522

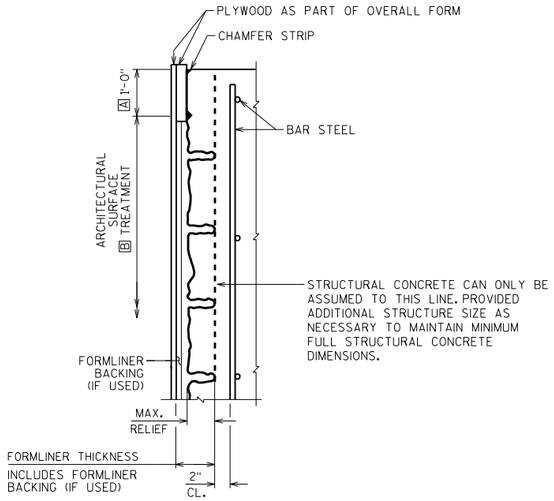
SCALE = 1.00

8

8

STATE PROJECT NUMBER

1517-75-72



SECTION THROUGH PARAPET FORMLINER

CONCRETE STAINING SCHEDULE

MARK	COLOR	FED. COLOR NO.	LOCATION
A	HOPSACK	SW 6109	PLAIN CAP ON WALL AND PARAPET
B	LATTE	33522	FORMLINER ON F.F. OF WALL AND PARAPET

NOTE: 1. FINISH ON COLORS IS FLAT (LUSTERLESS)

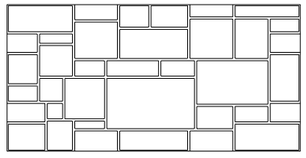
NOTES

FORMLINER COURSING ON PRESTRESSED PRECAST WALL PANELS SHALL BE LEVEL.

THE FORMLINER PATTERN SHALL BE CONTINUOUS ACROSS CONSTRUCTION JOINTS.

FORMLINER ON PARAPETS SHALL BE PARALLEL TO TOP OF PARAPET.

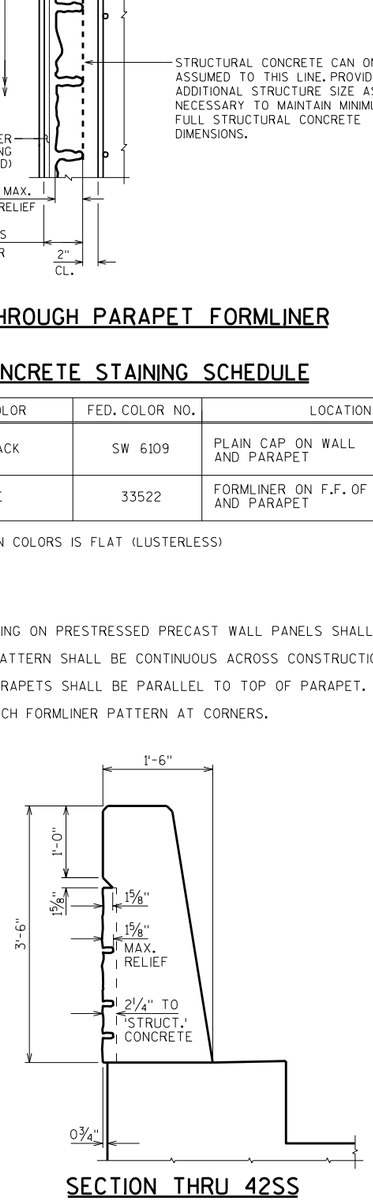
WRAPAROUND/MATCH FORMLINER PATTERN AT CORNERS.



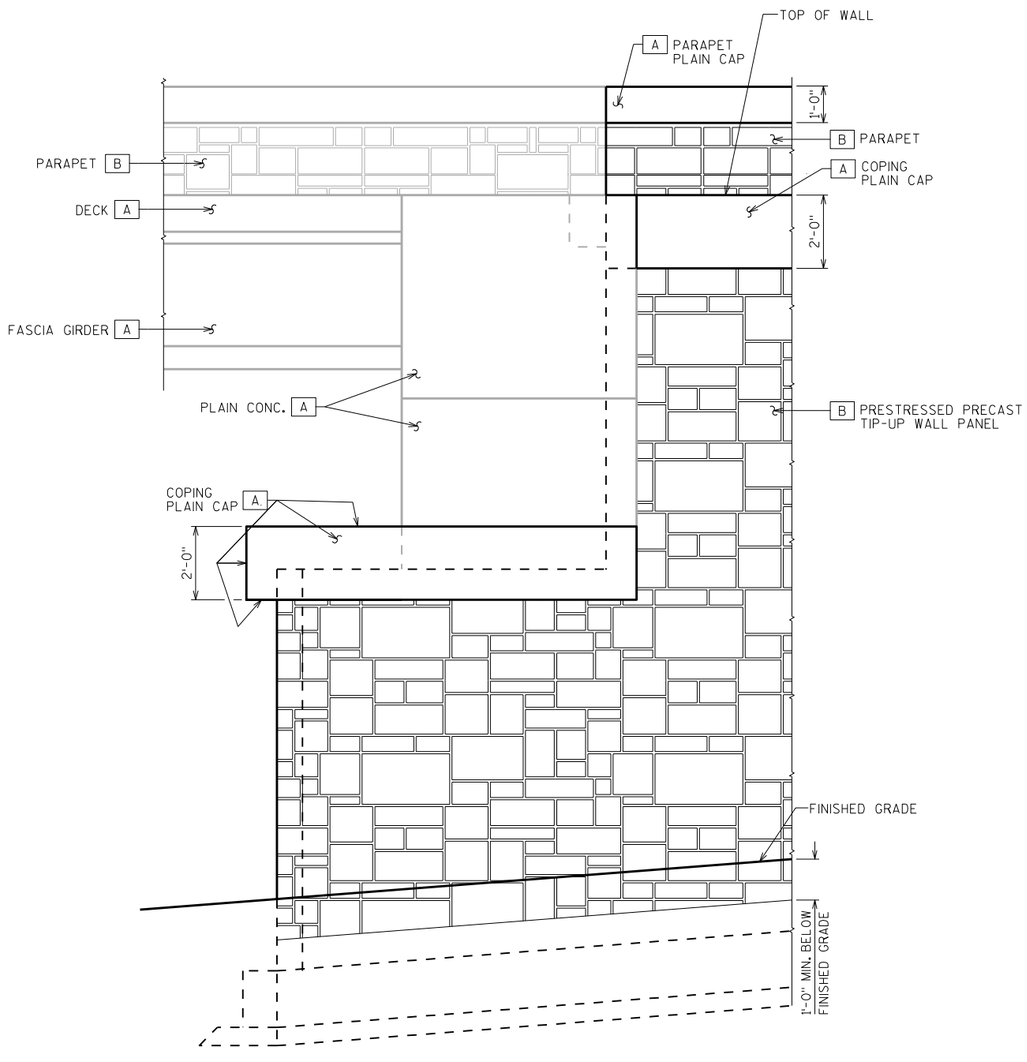
ASHLAR

MAXIMUM RELIEF: 1⅝"
AVERAGE RELIEF: 1¼"
LINER THICKNESS*: 2½"
STONE SIZE: H: 3" - 17"
W: 5"-29"

* INCLUDES INTERNAL PLYWOOD BACKING



SECTION THRU 42SS MODIFIED PARAPET



RETAINING WALL STAINING DETAIL

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
STRUCTURES DESIGN SECTION

STRUCTURE R-70-150

DRAWN BY ABS | PLANS CK'D. EMK

AESTHETICS DETAILS

SHEET 14

523

SCALE = 1.00

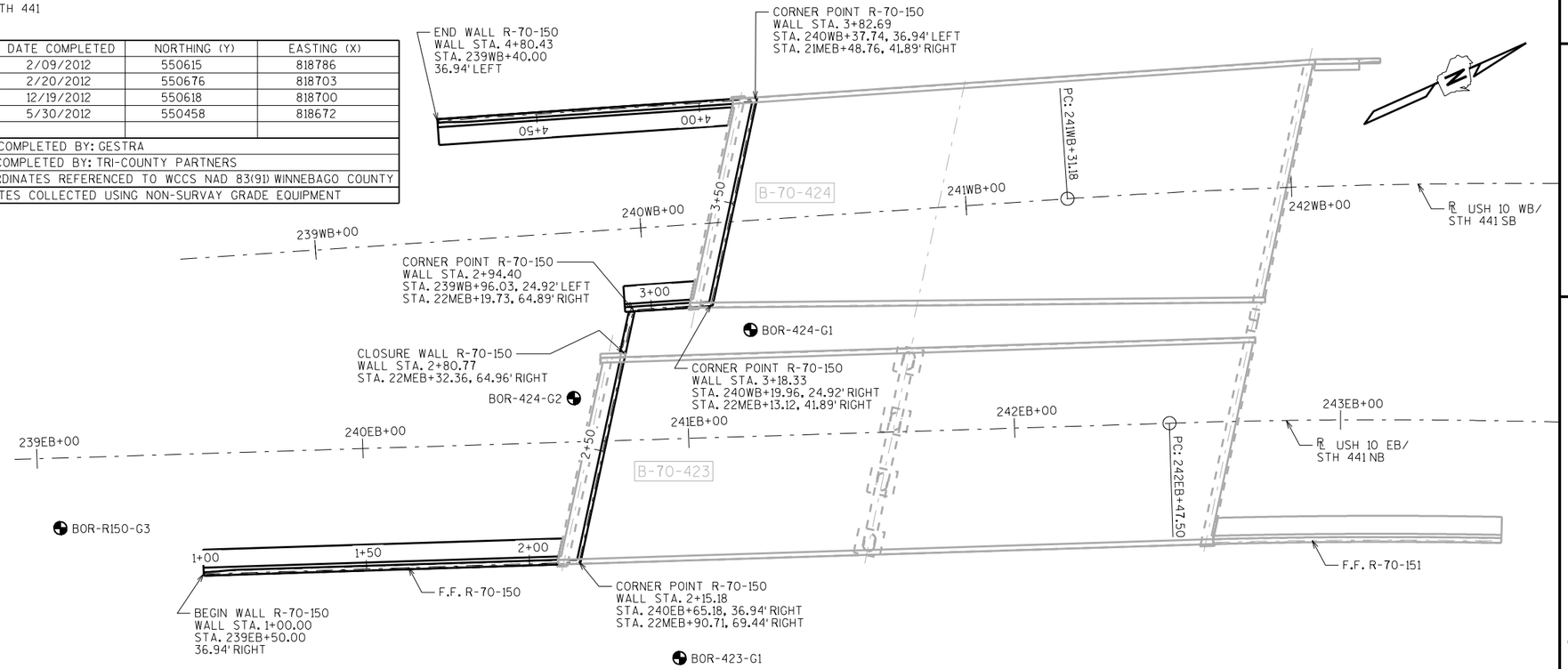
8

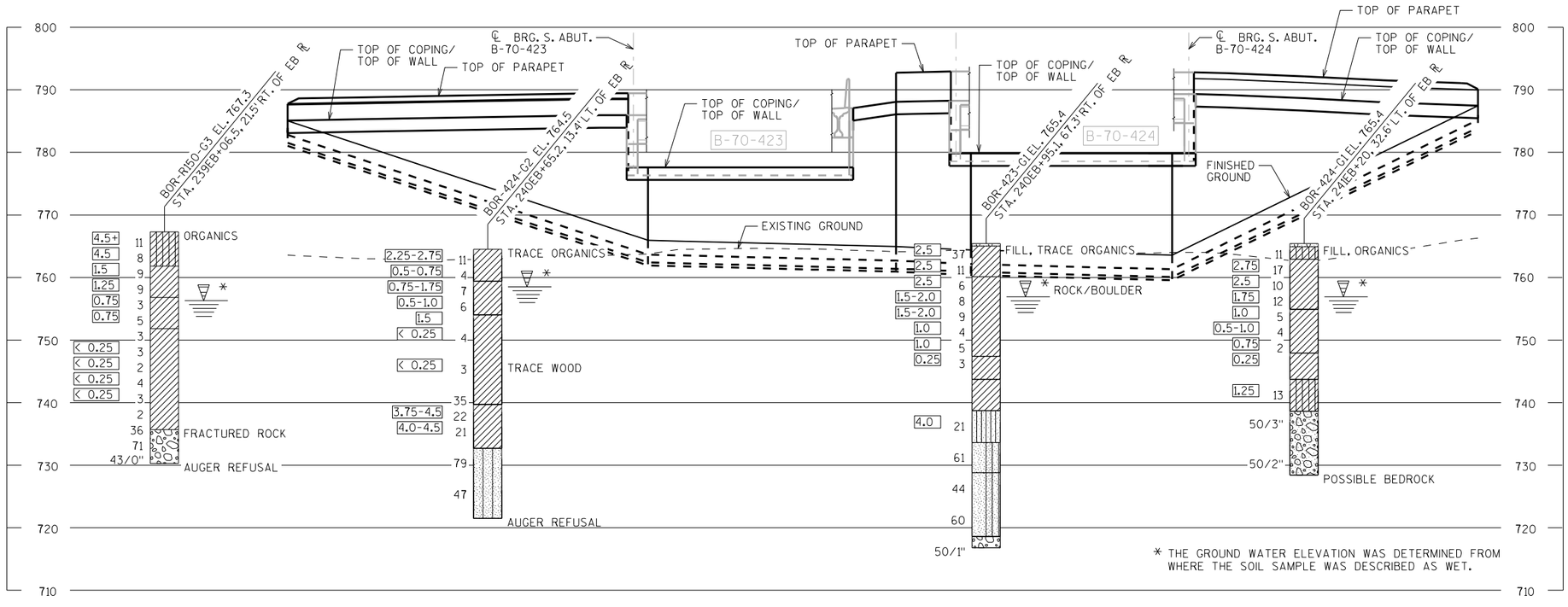
8

USH 10/STH 441

BORING #	DATE COMPLETED	NORTHING (Y)	EASTING (X)
B423-G1	2/09/2012	550615	818786
B424-G1	2/20/2012	550676	818703
B424-G2	12/19/2012	550618	818700
R150-G3	5/30/2012	550458	818672

BORINGS COMPLETED BY: GESTRA
REPORT COMPLETED BY: TRI-COUNTY PARTNERS
ALL COORDINATES REFERENCED TO WCCS NAD 83(91) WINNEBAGO COUNTY
COORDINATES COLLECTED USING NON-SURVAY GRADE EQUIPMENT





* THE GROUND WATER ELEVATION WAS DETERMINED FROM WHERE THE SOIL SAMPLE WAS DESCRIBED AS WET.

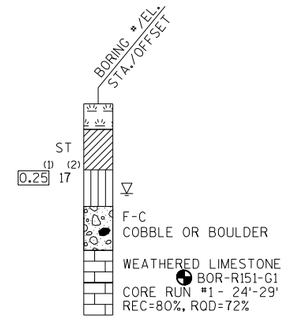
STATE PROJECT NUMBER

1517-75-72

MATERIAL SYMBOLS

ASPHALT, TOPSOIL, PEAT, CONCRETE, FILL, GRAVEL, SAND, CLAY, SILT, BOULDERS OR COBBLES, LIMESTONE, BEDROCK (UNKNOWN), SHALE, SANDSTONE, IGNEOUS/ META

LEGEND OF BORING



(1) UNCONFINED STRENGTH, AS DETERMINED BY A POCKET PENETROMETER (TSF)

(2) UNLESS OTHERWISE, SPECIFIED THE SPT 'N' VALUE IS BASED ON AASHTO T-206, STANDARD PENETRATION TEST. THE SPT 'N' VALUE PRESENTED HAS NOT BEEN CORRECTED FOR OVERBURDEN PRESSURE OR HAMMER EFFICIENCY.

GROUND WATER ELEVATION

AT TIME OF DRILLING
END OF DRILLING
AFTER DRILLING

ABBREVIATIONS

F-FINE M-MEDIUM C-COARSE ST-SHELBY TUBE

SUBSURFACE EXPLORATION FOR FOUNDATION DESIGN AND BIDDERS INFORMATION

BORINGS WERE COMPLETED AT POINTS APPROXIMATELY AS INDICATED ON THIS DRAWING TO OBTAIN INFORMATION CONCERNING THE CHARACTER OF SUBSURFACE MATERIALS FOUND AT THE SITE. BECAUSE THE INVESTIGATED DEPTHS ARE LIMITED AND THE AREA OF THE BORINGS IS VERY SMALL IN RELATION TO THE ENTIRE SITE, THE WISCONSIN DEPARTMENT OF TRANSPORTATION DOES NOT WARRANT SIMILAR SUBSURFACE CONDITIONS BELOW, BETWEEN, OR BEYOND THESE BORINGS. VARIATIONS IN SOIL CONDITIONS SHOULD BE EXPECTED AND FLUCTUATIONS IN GROUNDWATER LEVELS MAY OCCUR.

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
STRUCTURES DESIGN SECTION

STRUCTURE R-70-150

DRAWN BY PR/ABS | PLANS CK'D. EMK

SUBSURFACE EXPLORATION

SHEET 15

524

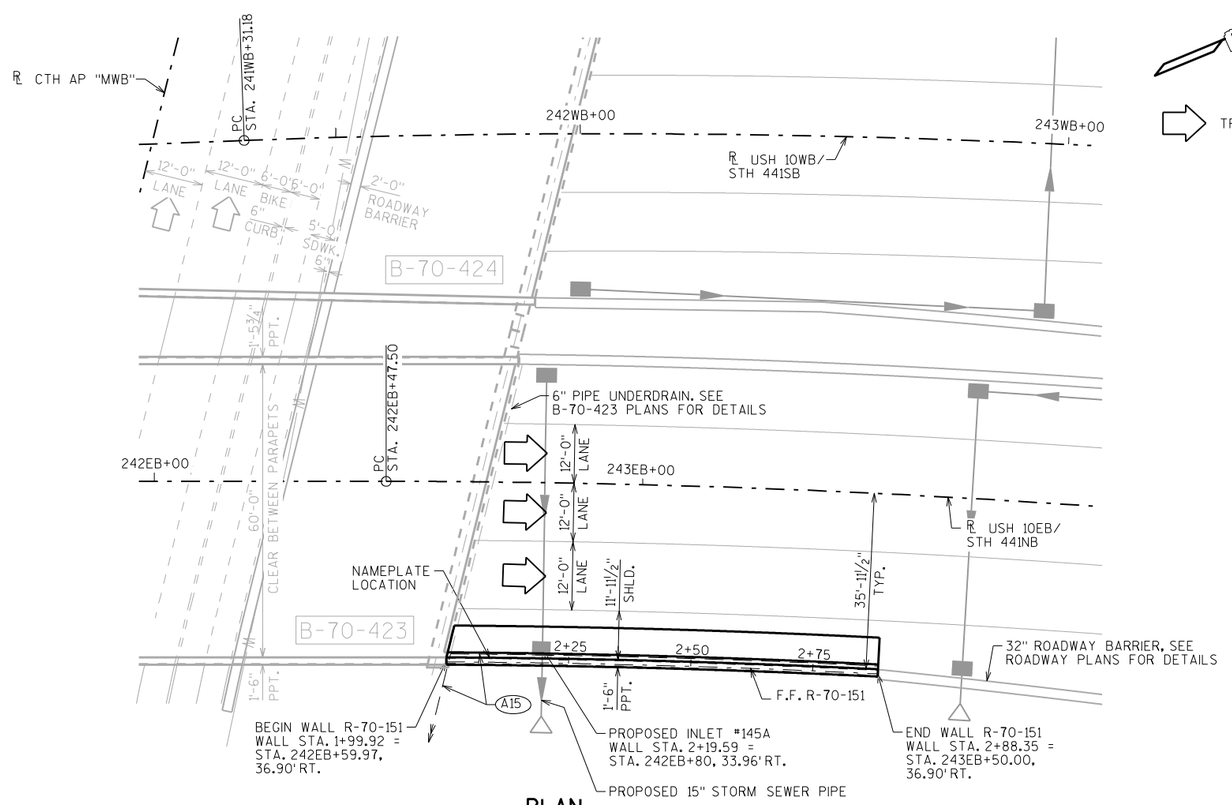
SCALE = 20.00

8

8

STATE PROJECT NUMBER

1517-75-72



PLAN

WALL WIRE FACED MECHANICALLY STABILIZED EARTH LRFD/QMP

TRAFFIC DIRECTION

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 WIRE FACED MECHANICALLY STABILIZED EARTH LRFD/QMP".

PLANS, ELEVATIONS, AND DETAILS SHOWN ON THESE PLANS 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 SHALL BE DESIGNED USING THE ELEVATIONS GIVEN ON SHEET 2.

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

DESIGN RETAINING WALL FOR A LIVE LOAD SURCHARGE OF 240 PSF.

DESIGN RETAINING WALL FOR A WIND SUCTION LOAD OF 20 PSF ON THE PRECAST PANEL.

THE MAXIMUM VALUE OF THE ANGLE OF INTERNAL FRICTION OF THE WALL BACKFILL MATERIAL IN THE REINFORCED ZONE SHALL BE ASSUMED TO BE 30° WITHOUT CERTIFIED TEST VALUES.

ALLOWABLE WALL SYSTEMS

WALL WIRE FACED MECHANICALLY STABILIZED EARTH LRFD/QMP

MATERIAL PROPERTIES

CONCRETE MASONRY RETAINING WALLS (VEHICLE BARRIER, COPING, FOOTING, AND DEADMAN ANCHORS)	f'c = 3,500 P.S.I.
PRESTRESSED PRECAST CONCRETE WALL PANEL	f'c = 5,000 P.S.I.
BAR STEEL REINFORCEMENT, GRADE 60	fy = 60,000 P.S.I.
STRUCTURAL STEEL CARBON - ASTM A36	fy = 36,000 P.S.I.

TRAFFIC VOLUME

USH 10 EB/STH 441 NB	USH 10 WB/STH 441 SB	CTH AP "MWB"
A.D.T. = 32,900 (2035)	A.D.T. = 35,400 (2035)	A.D.T. = 10,700 (2035)
R.D.S. = 70 M.P.H.	R.D.S. = 70 M.P.H.	R.D.S. = 40 M.P.H.

CURVE DATA

USH 10 EB/STH 441 NB

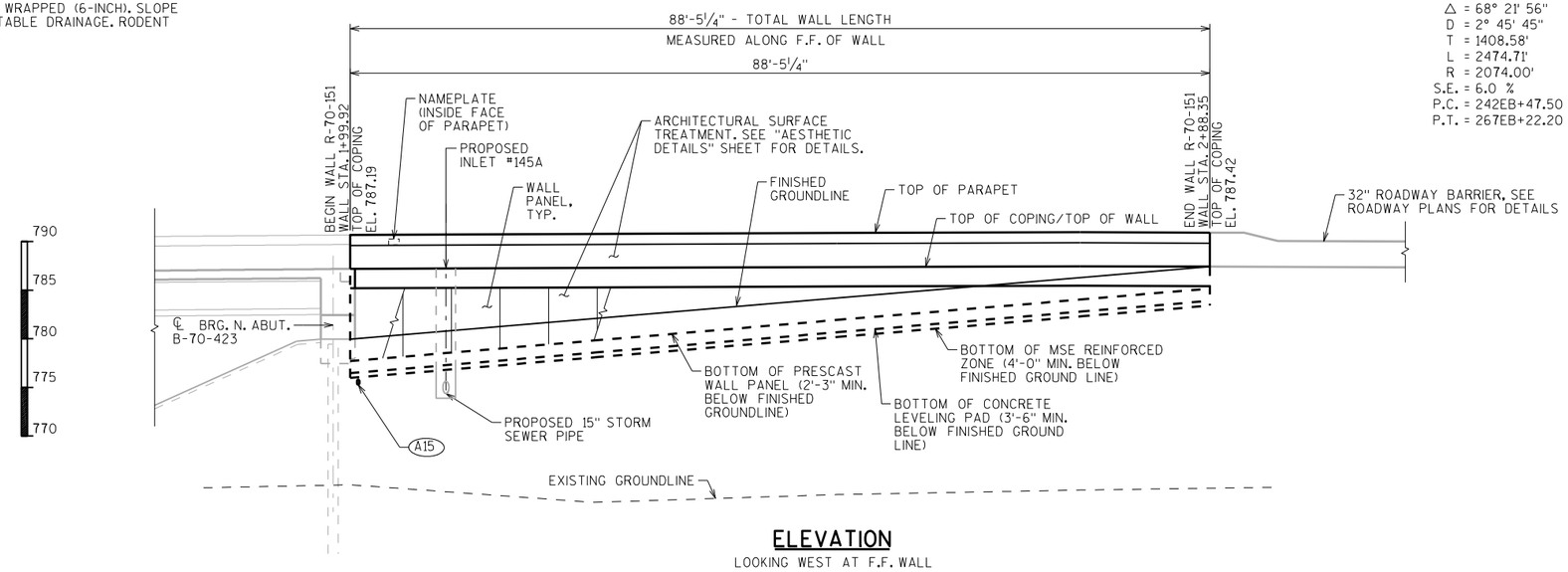
P.I. = 256EB+56.08
Δ = 68° 21' 56"
D = 2° 45' 45"
T = 1408.58'
L = 2474.71'
R = 2074.00'
S.E. = 6.0 %
P.C. = 242EB+47.50
P.T. = 267EB+22.20

LIST OF DRAWINGS

1. GENERAL PLAN
2. QUANTITIES & WALL DATA
3. WALL DETAILS 1
4. WALL DETAILS 2
5. WALL PANEL DETAILS
6. ANCHOR SLAB PLAN & ELEV
7. ANCHOR SLAB DETAILS
8. AESTHETIC DETAILS
9. SUBSURFACE EXPLORATION

STRUCTURE DESIGN CONTACTS:
EMILY KUEHNE (608)266-5089
AARON BONK (608)261-0261

(A15) PIPE UNDERDRAIN WRAPPED (6-INCH). SLOPE 0.5% MIN. TO SUITABLE DRAINAGE. RODENT SHIELD REQUIRED.



ELEVATION

LOOKING WEST AT F.F. WALL

NO.	DATE	REVISION	BY

WISCONSIN DEPARTMENT OF TRANSPORTATION — BUREAU OF STRUCTURES

ACCEPTED William C. Dreher — CHIEF STRUCTURES DESIGN ENGINEER — DATE 2/13/17

STRUCTURE R-70-151

N.E. RETAINING WALL ALONG USH 10EB/WIS 441NB

COUNTY	CITY
WINNEBAGO	MENASHA

DESIGN SPEC. AASHTO LRFD BRIDGE DESIGN SPECIFICATIONS

DESIGNED BY	DESIGNED CK'D.	DRAWN BY	PLANS CK'D.
EMK	ABS	ABS	EMK

GENERAL PLAN

SHEET 1 OF 9

525

I.D. 1517-07-04H

DATE: FEB. 2017

SCALE = 15.00

8

8

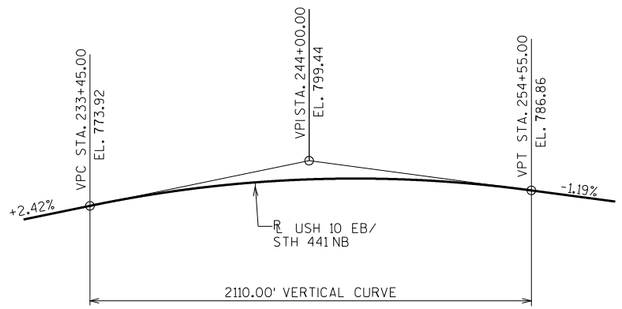
STATE PROJECT NUMBER

1517-75-72

SOIL PARAMETERS

SOIL DESCRIPTION	UNDRAINED PARAMETERS		DRAINED PARAMETERS		
	FRICTION ANGLE (DEGREES)	COHESION (PSF)	FRICTION ANGLE (DEGREES)	COHESION (PSF)	UNIT WEIGHT (PCF)
GRANULAR BACKFILL BEHIND THE WALL IN THE REINFORCING ZONE	--	--	30	0	120
FILL, GRANULAR BEHIND AND BELOW THE THE REINFORCING ZONE	0	1000	30	0	125
BORING R151-G1 - STA. 242EB+60.00					
LEAN/FAT CLAY EL. 760 TO EL. 765	0	2000	30	0	135
FAT/LEAN CLAY EL. 755 TO EL. 760	0	1000	26	0	120
FAT/LEAN CLAY EL. 750 TO EL. 755	0	800*	24	0	110
FAT/LEAN CLAY EL. 737 TO EL. 750	0	700*	22	0	105
GRAVEL WITH SAND BELOW EL. 737	32	0	32	0	130
ASSUMED DESIGN GROUNDWATER EL. 755.0					

* IMPROVED SOIL PARAMETERS FROM 1ST LIFT OF STAGE CONSTRUCTION



PROFILE GRADE LINE - USH 10 EB/STH 441 NB

WALL EXTERNAL & OVERALL STABILITY EVALUATION

DIMENSIONS		
MAX WALL HEIGHT (FEET) [1]	10.2	
MAX EXPOSED WALL HEIGHT (FEET)	7.2	
MINIMUM LENGTH OF REINFORCEMENT (FEET)	9.0 [2]	
LENGTH OF REINFORCEMENT TO HEIGHT RATIO	0.9 [2]	
BORING LOCATION USED	R151-G1	
APPROXIMATE WALL STATION	242EB+60	
DESIGN SLOPE ANGLE AT FRONT OF WALL	20° (2.7:1)	
DESIGN SLOPE ANGLE AT BACK OF WALL	2.4° (4.2%)	
CAPACITY TO DEMAND RATIO (CDR) AND FACTORED BEARING RESISTANCE [3]		
SLIDING (CDR > 1.0)	1.11*	
ECCENTRICITY (CDR > 1.0)	1.04*	
OVERALL STABILITY (CDR > 1.0)	1.02*	
BEARING RESISTANCE (CDR > 1.0)	1.42	
FACTORED BEARING RESISTANCE (PSF)	4,725	

NOTES:
1. THE WALL HEIGHT INCLUDES AN EMBEDMENT OF 3.5 FEET FROM FINISHED GRADE.
2. THE MINIMUM LENGTH OF REINFORCEMENT IS 0.9H OR 8 FEET, WHICHEVER IS LARGER.
3. SELECTION OF THE LOWER VALUE BETWEEN DRAINED AND UNDRAINED ANALYSIS RESULTS.

* CONTROLLING DESIGN ISSUE

ADDITIONAL ASSUMPTIONS:
1. THE SLOPE IN FRONT OF THE WALL VARIES FROM 2.5H:1.0V TO 2.7H:1.0V.
2. THE SLOPE BEHIND THE WALL VARIES FROM 4.2% TO 6%.
3. THE GRANULAR BACKFILL IS FREE DRAINING AND IS ASSUMED NOT TO BECOME SATURATED.
4. THE WALL STABILITY CHECK INCLUDES A SURCHARGE LOAD OF 240 PSF TO MODEL LIVE LOAD FROM TRAFFIC.
5. AN ADDITIONAL SURCHARGE LOAD OF SLAB ANCHOR (2 FEET IN THICKNESS) IS ALSO INCLUDED IN THIS DESIGN.
6. GLOBAL STABILITY FACTOR OF SAFETY DETERMINED BY THE COMPUTER PROGRAM, G-STABL7, AND MODIFIED-BISHOP METHOD.
7. BEARING RESISTANCE BASED ON WISDOT LRFD BRIDGE DESIGN SPECIFICATIONS.

GENERAL NOTES

DRAWINGS SHALL NOT BE SCALED

BEVEL ALL EXPOSED EDGES OF CONCRETE ¾" UNLESS OTHERWISE NOTED.

BAR STEEL REINFORCEMENT SHALL HAVE 2" CLEAR COVER UNLESS OTHERWISE SHOWN OR NOTED.

ALL BAR STEEL REINFORCEMENT IN CAST-IN-PLACE CONCRETE IS TO BE EPOXY COATED.

SEAL ALL EXPOSED HORIZONTAL AND VERTICAL SURFACES OF JOINT FILLER WITH NON-STAINING GRAY NON-BITUMINOUS JOINT SEALER (1" DEEP & HOLD 1/8" BELOW THE SURFACE OF CONCRETE).

ALL WALL STATIONING AND OFFSETS ARE GIVEN AT THE FRONT FACE OF WALL R-70-151.

THE EXISTING GROUND LINE IS THE UPPER LIMITS OF EXCAVATION FOR STRUCTURES.

THE PLAN QUANTITY FOR THE BID ITEM "WALL WIRE FACED MECHANICALLY STABILIZED EARTH LRFD/QMP" IS BASED ON A WALL HEIGHT MEASURED FROM THE TOP OF THE WALL TO FINISHED GRADE.

HOT DIP GALVANIZE ALL STRUCTURAL STEEL CARBON IN ACCORDANCE WITH ASTM A123 WHERE SHOWN.

OPTIONAL TRANSVERSE CONSTRUCTION JOINTS ARE PERMITTED IN THE FOOTING WITH A MINIMUM SPACING OF TWO PANEL WIDTHS. FOOTING JOINTS SHALL BE OFFSET A MINIMUM OF 1'-0" FROM WALL JOINTS. RUN BAR STEEL THRU FOOTING JOINTS.

THE COST OF FURNISHING AND PLACING THE FOOTING UNDER THE PRESTRESSED PRECAST CONCRETE WALL PANELS IS INCIDENTAL TO THE BID ITEM "PRESTRESSED PRECAST CONCRETE WALL PANEL".

THE QUANTITY OF CONCRETE MASONRY & REINFORCING STEEL FOR THE CAST-IN-PLACE ANCHOR SLAB IS PAID FOR BY "CONCRETE MASONRY RETAINING WALLS" AND "BAR STEEL REINFORCEMENT HS COATED STRUCTURES" BID ITEMS.

DO NOT PERMIT CONCRETE OR FILL TO ACCUMULATE IN THE WALL CAVITY BETWEEN THE WIRE FACED MSE WALL AND PRECAST CONCRETE WALL PANEL.

AT THE BEGINNING AND END OF WALL, SEAL OPENING BETWEEN FACE OF WIRE FACED WALL AND PRECAST CONCRETE WALL PANEL WITH 1'-6" WIDE COLUMN OF CONCRETE. THIS IS INCIDENTAL TO THE BID ITEM "PRESTRESSED PRECAST CONCRETE WALL PANEL".

THE VOLUME OF EARTHWORK REQUIRED TO INSTALL THE FOOTING, WIRE FACED WALL, MSE BACKFILL, AND SOIL REINFORCEMENT IS INCIDENTAL TO THE BID ITEM "WALL WIRE FACED MECHANICALLY STABILIZED EARTH LRFD/QMP".

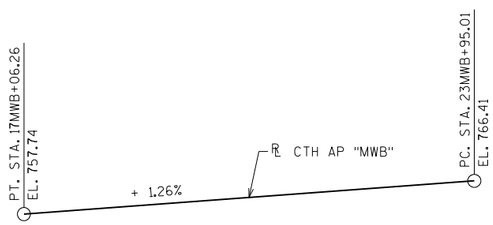
QUANTITIES AND REINFORCEMENT DETAILS ARE BASED ON AN ASSUMED CONCRETE WALL PANEL THICKNESS OF 9" AND A PANEL EMBEDMENT OF 6". FOR PANEL THICKNESS OR PANEL EMBEDMENT DIFFERENT THAN THESE VALUES, THE CONTRACTOR SHALL VERIFY REINFORCEMENT BAR DETAILS AND QUANTITIES AND WILL BE RESPONSIBLE FOR ANY QUANTITY VARIATIONS.

PIGMENTED SURFACE SEALER TO BE APPLIED TO THE EXPOSED PORTION OF MOMENT SLAB AND TRAFFIC SIDE AND TOP OF THE PARAPET.

COORDINATE THE CONSTRUCTION OF RETAINING WALL R-70-151 WITH THE NORTH ABUTMENT OF BRIDGE B-70-423.

TOTAL ESTIMATED QUANTITIES

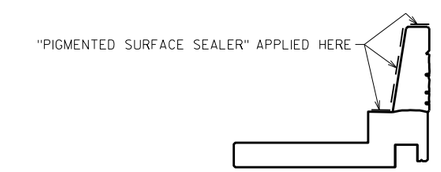
BID ITEM NUMBER	BID ITEMS	UNIT	TOTALS
502.3210	PIGMENTED SURFACE SEALER	SY	53
504.0500	CONCRETE MASONRY RETAINING WALLS	CY	48
505.0600	BAR STEEL REINFORCEMENT HS COATED STRUCTURES	LB	5,160
516.0500	RUBBERIZED MEMBRANE WATERPROOFING	SY	3
517.1010.S	CONCRETE STAINING R-70-151	SF	755
517.1050.S	ARCHITECTURAL SURFACE TREATMENT R-70-151	SF	462
612.0406	PIPE UNDERDRAIN WRAPPED 6-INCH	LF	110
SPV.0165	PRESTRESSED PRECAST CONCRETE WALL PANEL	SF	325
SPV.0165	WALL WIRE FACED MECHANICALLY STABILIZED EARTH LRFD/QMP	SF	325
	NON-BID ITEMS		
	PREFORMED JOINT FILLER	SIZE	½" & ¾"
	NON-BITUMINOUS JOINT SEALER	SIZE	½" & ¾"
	CORK FILLER	SIZE	1"
	EXPANDED POLYSTYRENE	SIZE	1"
	CLOSED CELL NEOPRENE FILLER	SIZE	1" X 1"



PROFILE GRADE LINE - CTH AP "MWB"

GEOMETRY TABLE

WALL STATION	R/L USH 10EB STATION	OFFSET TO F.F. WALL	TOP OF WALL EL.	FINISHED GRADE EL.	EXISTING GRADE EL.
1+99.92	242EB+59.97	36.90' RT.	787.19	779.97	765.00
2+00.00	242EB+60.06	36.90' RT.	787.20	779.98	765.00
2+25.00	242EB+85.51	36.90' RT.	787.30	782.09	763.18
2+50.00	243EB+10.96	36.90' RT.	787.39	784.19	763.98
2+75.00	243EB+36.41	36.90' RT.	787.47	786.30	764.44
2+88.35	243EB+50.00	36.90' RT.	787.42	787.42	764.63



PIGMENTED SURFACE SEALER LIMITS DETAIL

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
STRUCTURES DESIGN SECTION

STRUCTURE R-70-151

DRAWN BY ABS | PLANS CK'D. EMK

QUANTITIES & WALL DATA

SHEET 2

526

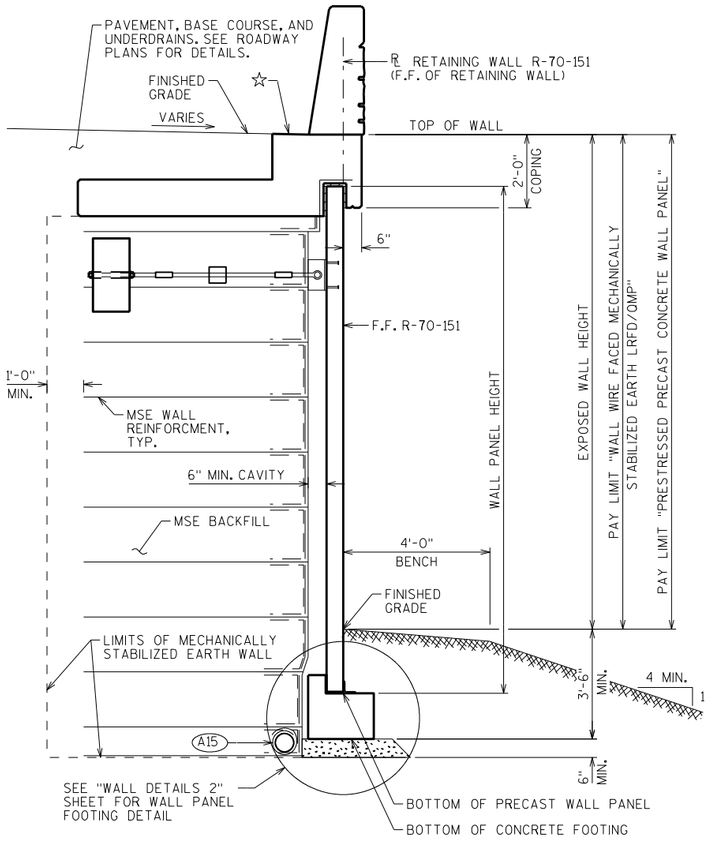
SCALE = 1.00

8

8

STATE PROJECT NUMBER

1517-75-72

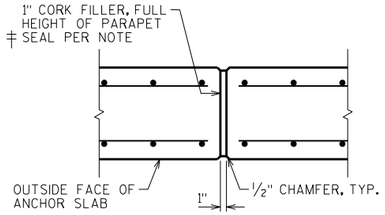


TYPICAL SECTION

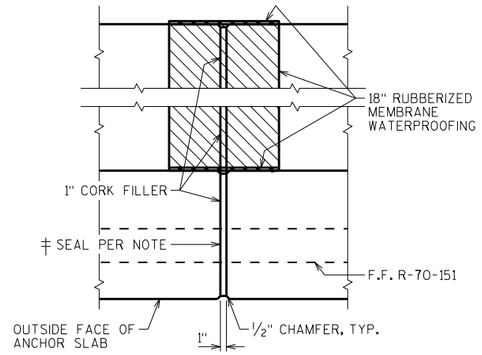
LOOKING NORTH

☆ SLOPE TO MATCH ROADWAY

(A15) PIPE UNDERDRAIN WRAPPED (6-INCH). SLOPE 0.5% MIN. TO SUITABLE DRAINAGE. RODENT SHIELD REQUIRED.



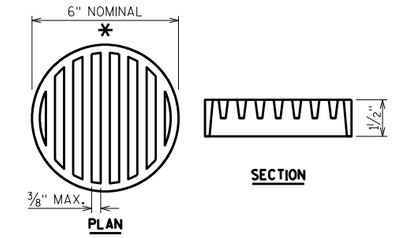
TRAFFIC BARRIER EXPANSION JOINT DETAIL



ANCHOR SLAB EXPANSION JOINT DETAIL

EXPANSION JOINTS TO BE SPACED AT A MINIMUM OF 20' AND A MAXIMUM OF 30'. LOCATE EXPANSION JOINTS OVER WALL JOINTS. DO NOT RUN BAR STEEL THRU JOINT, EXCEPT FOR DOWEL BARS. JOINT TO EXTEND FULL DEPTH OF PARAPET AND ANCHOR SLAB.

‡ SEAL ALL EXPOSED HORIZ. & VERT. SURFACES OF FILLER WITH NON-STAINING GRAY NON-BITUMINOUS JOINT SEALER. (1" DEEP AND HOLE ⅛" BELOW SURFACE OF CONC.)

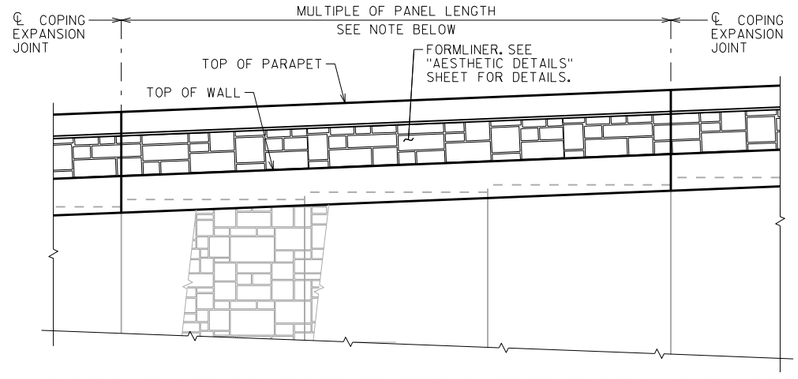


RODENT SHIELD DETAIL

* DIMENSIONS ARE APPROXIMATE. THE GRATE IS SIZED TO FIT INTO A PIPE COUPLING. ORIENT SO SLOTS ARE VERTICAL.

THE RODENT SHIELD, PIPE COUPLING AND SCREWS SHALL BE CONSIDERED INCIDENTAL TO THE BID ITEM "PIPE UNDERDRAIN WRAPPED 6-INCH".

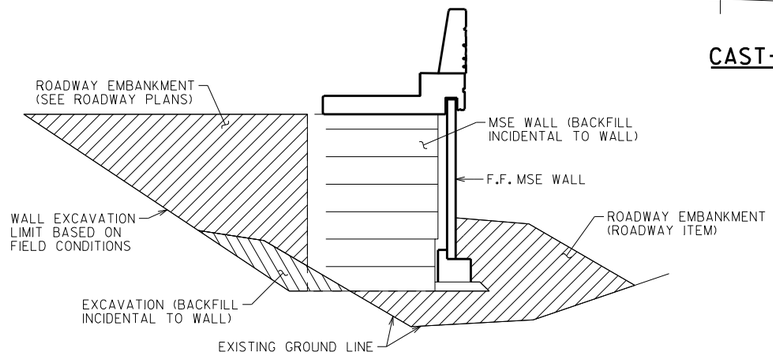
THE RODENT SHIELD SHALL BE A PVC GRATE SIMILAR TO THIS DETAIL. THE GRATE IS COMMERCIALLY AVAILABLE AS A FLOOR STRAINER. A PIPE COUPLING IS REQUIRED FOR THE ATTACHEMENT OF THIS SHIELD TO THE EXPOSED END OF THE PIPE UNDERDRAIN. THE SHIELD SHALL BE FASTENED TO THE PIPE COUPLING WITH TWO OR MORE NO. 10 X 1-INCH STAINLESS STEEL SHEET METAL SCREWS.



CAST-IN-PLACE CONCRETE TRAFFIC BARRIER PARTIAL ELEVATION

LOOKING AT F.F. WALL

NOTE:
ALL JOINTS MUST COINCIDE WITH PANEL JOINT ON FRONT FACE.



EXCAVATION/BACKFILL DETAIL

LOOKING NORTH

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
STRUCTURES DESIGN SECTION

STRUCTURE R-70-151

DRAWN BY ABS | PLANS CK'D. EMK

WALL DETAILS 1

SHEET 3

527

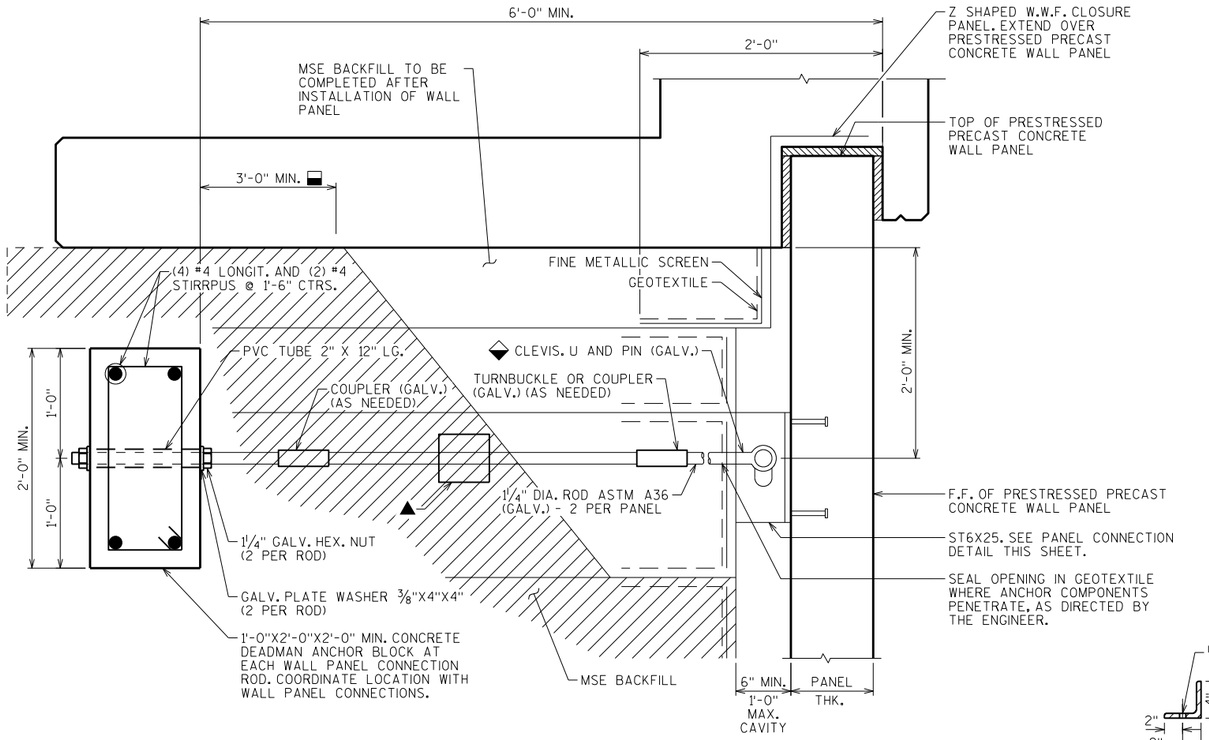
SCALE = 2.00

8

8

STATE PROJECT NUMBER

1517-75-72



WALL PANEL ANCHOR DETAIL

NOTES

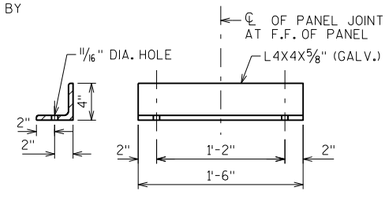
CLEVIS, CLEVIS PIN, COUPLER, MULTIDIRECTIONAL CONNECTOR, AND TURNBUCKLE TO BE CORROSION RESISTANT AND DEVELOP 125% OF THE ULTIMATE STRENGTH OF THE 1¼" DIAMETER ROD.

ST6X25, ROD, CONNECTING HARDWARE, AND DEADMAN ANCHOR INCLUDING ALL ASSOCIATED REINFORCEMENT ARE INCLUDED IN THE BID ITEM "PRESTRESSED PRECAST CONCRETE WALL PANEL."

FORCES APPLIED TO THE DEADMAN ANCHOR MUST BE ACCOUNTED FOR IN THE DESIGN OF MSE REINFORCEMENT WHEN SATISFYING FORCE AND MOMENT EQUILIBRIUM.

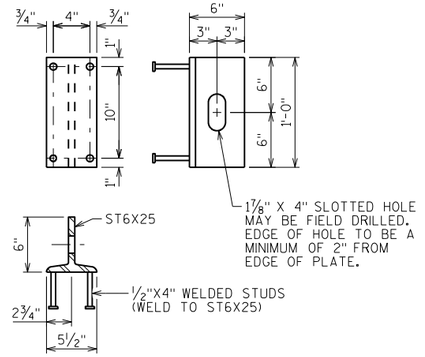
LEGEND

- ⬓ CONTRACTOR TO DESIGN LENGTH TO PROVIDE REQUIRED HORIZONTAL CAPACITY OF ANCHOR ASSEMBLY. MINIMUM OF 3'-0" OF COMPACTED FILL IN FRONT OF DEADMAN ANCHOR PRIOR TO WALL PANEL ERECTION AND ROD TO BE 2'-0" MIN. BELOW TOP OF REINFORCED SOIL ZONE.
- ◆ CLEVIS TO BE INSTALLED TOWARDS THE TOP OF THE SLOTTED HOLE, TO ALLOW FOR SETTLEMENT OF THE WIRE FACED MSE WALL.
- ▲ OPTIONAL MULTIDIRECTIONAL CONNECTOR MAY BE USED TO FACILITATE ALIGNMENT AT THE CONNECTION
- ⬕ INCIDENTAL TO THE BID ITEM "PRESTRESSED PRECAST CONCRETE WALL PANEL".
- (A15) PIPE UNDERDRAIN WRAPPED (6-INCH). SLOPE 0.5% MIN. TO SUITABLE DRAINAGE. RODENT SHIELD REQUIRED.



BASE ANGLE DETAIL

CENTERED ON PANEL JOINT OR AT EACH FOOTING END OR STEP ELEVATION. INCLUDED IN BID ITEM "PRESTRESSED PRECAST CONCRETE WALL PANEL".

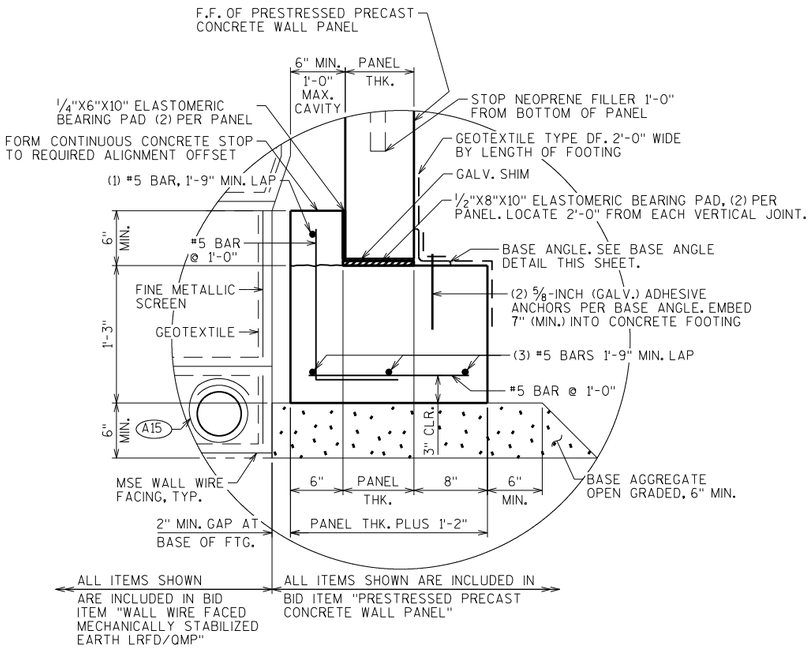


PANEL CONNECTION DETAIL

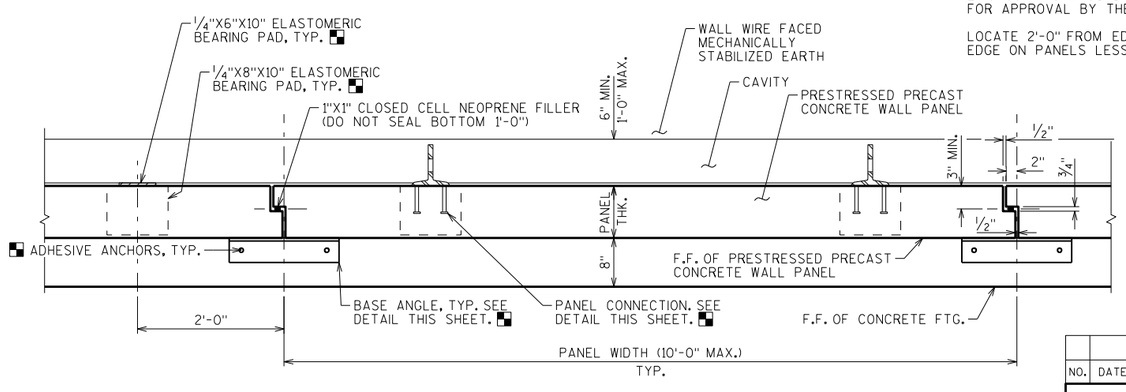
AS AN ALTERNATIVE, ½" (GALV) ADHESIVE ANCHORS MAY BE USED TO AVOID AN OBSTRUCTION. ALTERNATEIVE SHALL BE LIMITED TO ONE PANEL CONNECTION PER PANEL.

ST6X25 MAY BE WELDED TO ¾" THICK PLATE WITH (4) ½"X4" STUDS ANCHORED IN PRECAST CONCRETE PANEL. RESTORE ZINC COATING AROUND ANY WELDED AREAS. SUBMIT DETAILS FOR APPROVAL BY THE ENGINEER.

LOCATE 2'-0" FROM EDGE ON 10'-0" PANELS AND 1'-0" FROM EDGE ON PANELS LESS THAN 10'-0".



WALL PANEL FOOTING DETAIL



TYPICAL WALL PANEL CONNECTION - PLAN VIEW

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
STRUCTURES DESIGN SECTION

STRUCTURE R-70-151

DRAWN BY ABS | PLANS CK'D. EMK

WALL DETAILS 2

SHEET 4

528

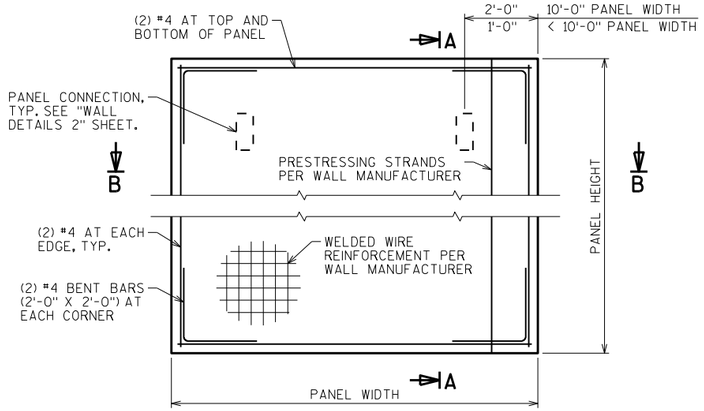
SCALE = 2.00

8

8

STATE PROJECT NUMBER

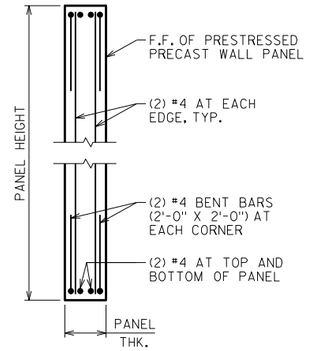
1517-75-72



ELEVATION - TYPICAL PRESTRESSED PRECAST CONCRETE WALL PANEL

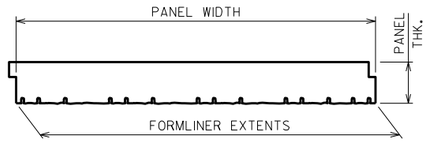
BAR STEEL REINF. AND CONCRETE ARE INCLUDED IN BID ITEM "PRESTRESSED PRECAST CONCRETE WALL PANEL".

PRECAST PANELS 6 FEET OR LESS IN HEIGHT DO NOT REQUIRE PRESTRESSING STRANDS.

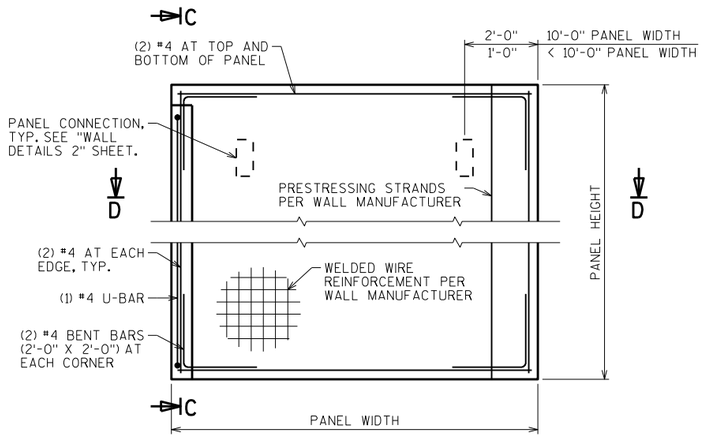


SECTION A-A

PRESTRESSING STRANDS NOT SHOWN FOR CLARITY

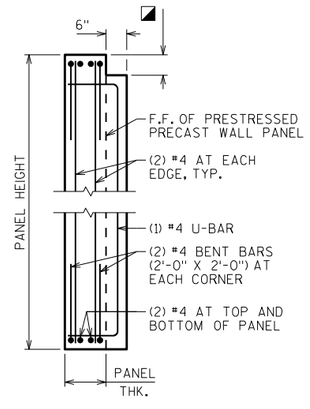


SECTION B-B



ELEVATION - SOUTH PRESTRESSED PRECAST CONCRETE WALL PANEL

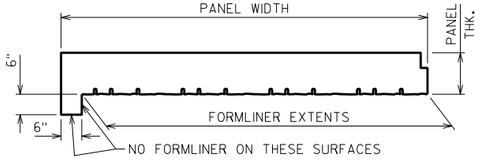
BAR STEEL REINF. AND CONCRETE ARE INCLUDED IN BID ITEM "PRESTRESSED PRECAST CONCRETE WALL PANEL".



SECTION C-C

PRESTRESSING STRANDS NOT SHOWN FOR CLARITY

◪ DEPENDANT ON PANEL EMBEDMENT INTO C.I.P COPING. 5" MIN.



SECTION D-D

8

8

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
STRUCTURES DESIGN SECTION

STRUCTURE R-70-151

DRAWN BY ABS | PLANS CK'D. EMK

WALL PANEL DETAILS

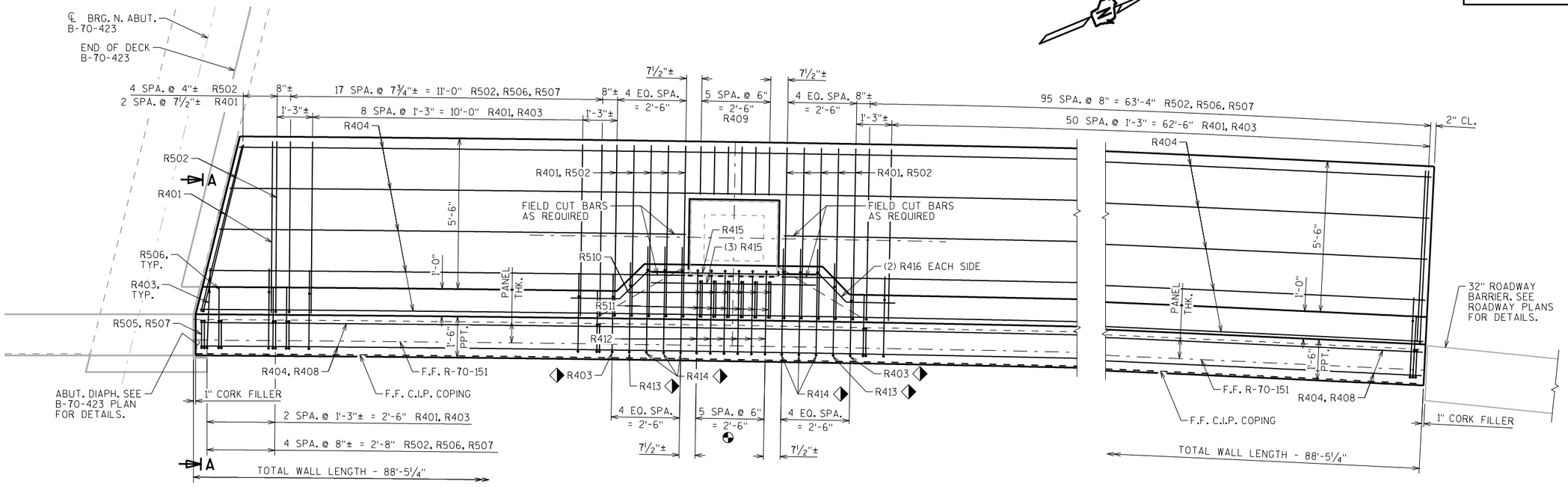
SHEET 5

529

SCALE = 2.00

STATE PROJECT NUMBER

1517-75-72



PLAN VIEW - SOUTH END DETAIL

PLAN VIEW - AT INLET

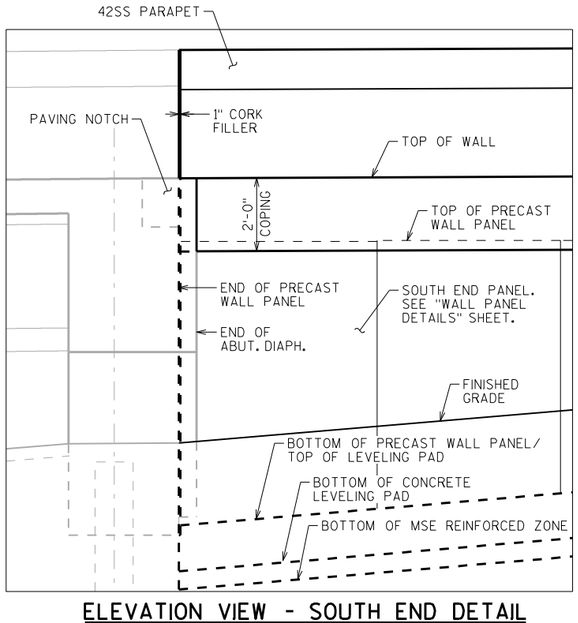
PARAPET BARS NOT SHOWN FOR CLARITY

◓ R510, R511, R412, R506, & R507

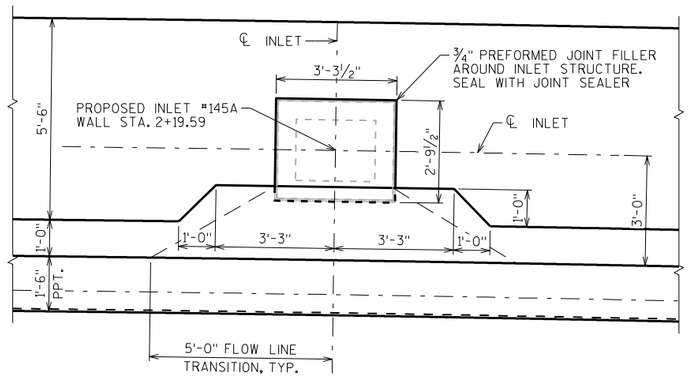
◆ INCLUDES R401, R502, R506, & R507

INLET HOLE DIMENSIONS ARE BASED ON ASSUMED 2'-8" X 3'-2" OUTER DIMENSIONS. RESIZE HOLE AS NECESSARY BASED ON ACTUAL INLET USED. ADJUST REINFORCEMENT LENGTHS TO ACCOMMODATE ACTUAL HOLE SIZE.

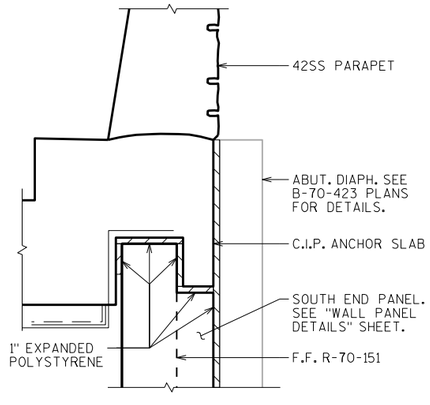
PLAN VIEW - NORTH END DETAIL



ELEVATION VIEW - SOUTH END DETAIL



INLET TRANSITION DETAIL



SECTION A-A

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
STRUCTURES DESIGN SECTION

STRUCTURE R-70-151

DRAWN BY ABS | PLANS CK'D. EMK

ANCHOR SLAB PLAN & ELEV

SHEET 6

530

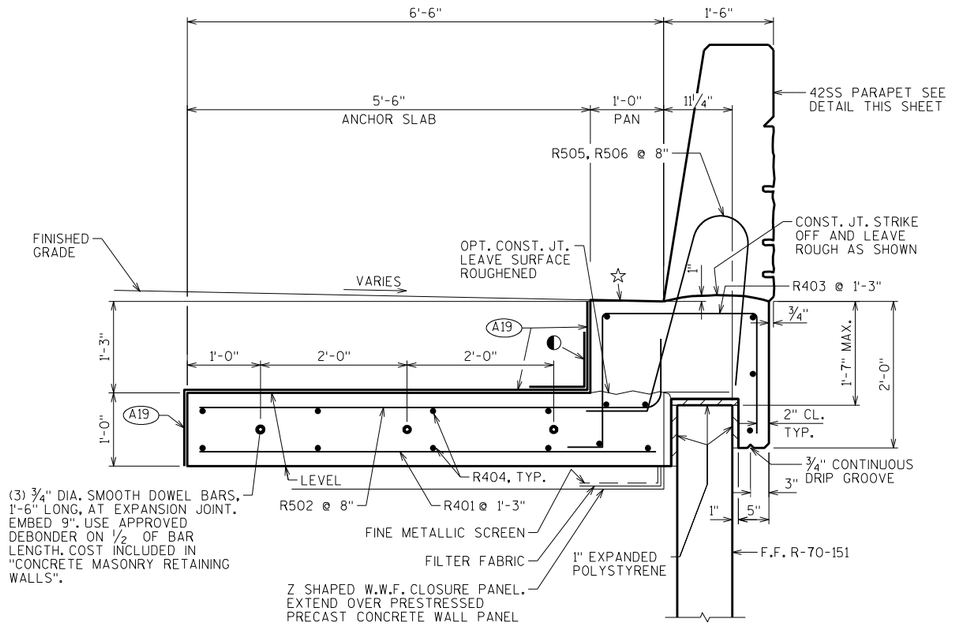
8

8

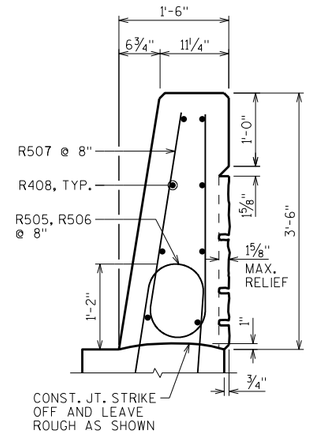
SCALE = 2.00

STATE PROJECT NUMBER

1517-75-72



CAST-IN-PLACE CONCRETE TRAFFIC BARRIER DETAIL



42SS PARAPET DETAILS

LEGEND

☆ SLOPE TO MATCH ROADWAY

(A19) 18" (RMW) RUBBERIZED MEMBRANE WATERPROOFING SEAL ALL HORIZ. & VERT. JOINTS AT BACKFACE.

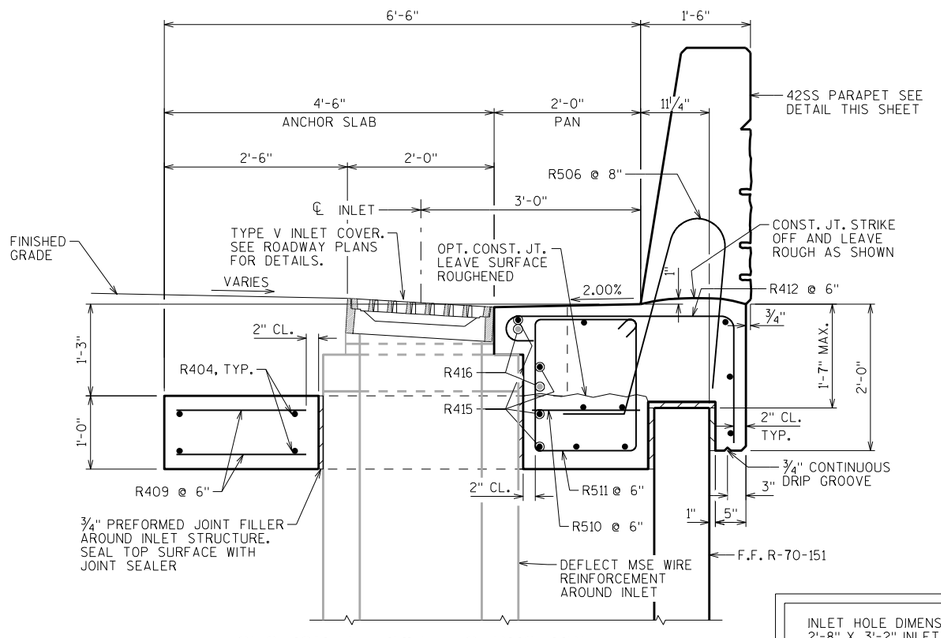
◐ IF THE OPT. CONST. JT. IS USED, PLACE 18" RUBBERIZED MEMBRANE WATERPROOFING ALONG THE ENTIRE LONGITUDINAL JOINT. THE RUBBERIZED MEMBRANE WATERPROOFING SEALING THE OPT. CONST. JT. IS INCIDENTAL TO THE CONCRETE MASONRY BID ITEM.

BILL OF BARS

NOTE: THE FIRST OR FIRST TWO DIGITS OF THE BAR MARK SIGNIFIES THE BAR SIZE

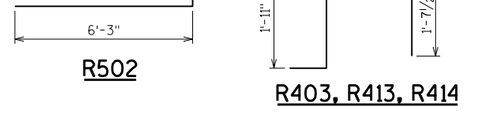
BAR MARK	COAT	NO. REQ'D.	LENGTH	BENT	BAR SERIES	LOCATION
R401	X	73	6'-3"			BOTTOM - TRANS.
R502	X	129	7'-0"	X		TOP - TRANS.
R403	X	65	6'-0"	X		TOP - TRANS.
◪ R404	X	16	88'-0"			LONGITUDINAL
R505	X	1	4'-5"	X		42SS PARAPET - VERT.
R506	X	134	6'-3"	X		42SS PARAPET - VERT.
R507	X	135	6'-8"	X		42SS PARAPET - VERT.
◪ R408	X	8	88'-0"			42SS PARAPET - LONGIT.
R409	X	12	2'-2"			ANCHOR SLAB - AT INLET
R510	X	6	1'-4"			ANCHOR SLAB - AT INLET - TOP
R511	X	6	7'-0"	X		PAN/ ANCHOR SLAB - AT INLET
R412	X	6	5'-1"	X		PAN - AT INLET
R413	X	2	6'-5"	X		TOP - TRANS.
R414	X	6	7'-0"	X		TOP - TRANS.
R415	X	4	6'-0"			PAN/ ANCHOR SLAB - AT INLET
R416	X	4	4'-11"	X		PAN/ ANCHOR SLAB - AT INLET

◪ BAR LENGTH SHOWN ASSUMES CONTINUOUS LONGITUDINAL BARS BASED ON ENTIRE WALL LENGTH. CONTRACTOR TO DETERMINE INDIVIDUAL BAR LENGTHS BASED UPON EXPANSION JOINT LOCATIONS. MAX. INDIVIDUAL BAR LENGTH = 29'-8"

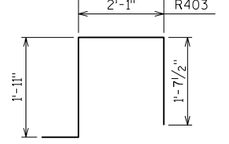


SECTION AT INLET STRUCTURE

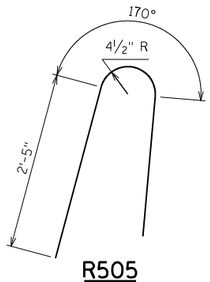
INLET HOLE DIMENSIONS ARE BASED ON ASSUMED 2'-8" X 3'-2" INLET OUTER DIMENSIONS. RESIZE HOLE AS NECESSARY BASED ON ACTUAL INLET USED. ADJUST REINFORCEMENT LENGTHS TO ACCOMMODATE ACTUAL HOLE SIZE.



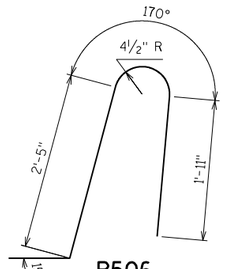
R502



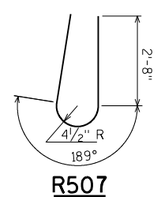
R403, R413, R414



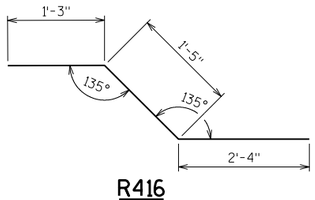
R505



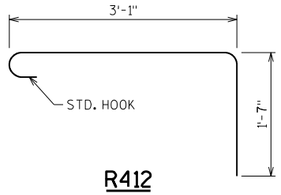
R506



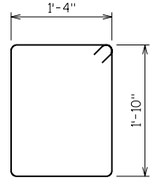
R507



R416



R412



R511

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
STRUCTURES DESIGN SECTION

STRUCTURE R-70-151

DRAWN BY ABS | PLANS CK'D. EMK

ANCHOR SLAB DETAILS

SHEET 7

531

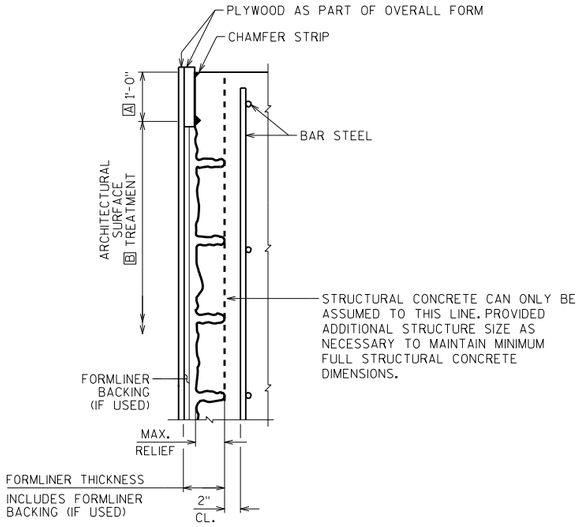
SCALE = 2.00

8

8

STATE PROJECT NUMBER

1517-75-72



SECTION THROUGH PARAPET FORMLINER

CONCRETE STAINING SCHEDULE

MARK	COLOR	FED. COLOR NO.	LOCATION
A	HOPSACK	SW 6109	PLAIN CAP ON WALL AND PARAPET
B	LATTE	33522	FORMLINER ON F.F. OF WALL AND PARAPET

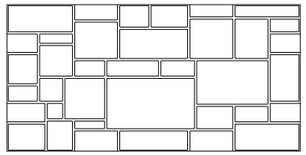
NOTE: 1. FINISH ON COLORS IS FLAT (LUSTERLESS)

NOTES

FORMLINER COURSING ON PRESTRESSED PRECAST WALL PANELS SHALL BE LEVEL.

THE FORMLINER PATTERN SHALL BE CONTINUOUS ACROSS CONSTRUCTION JOINTS.

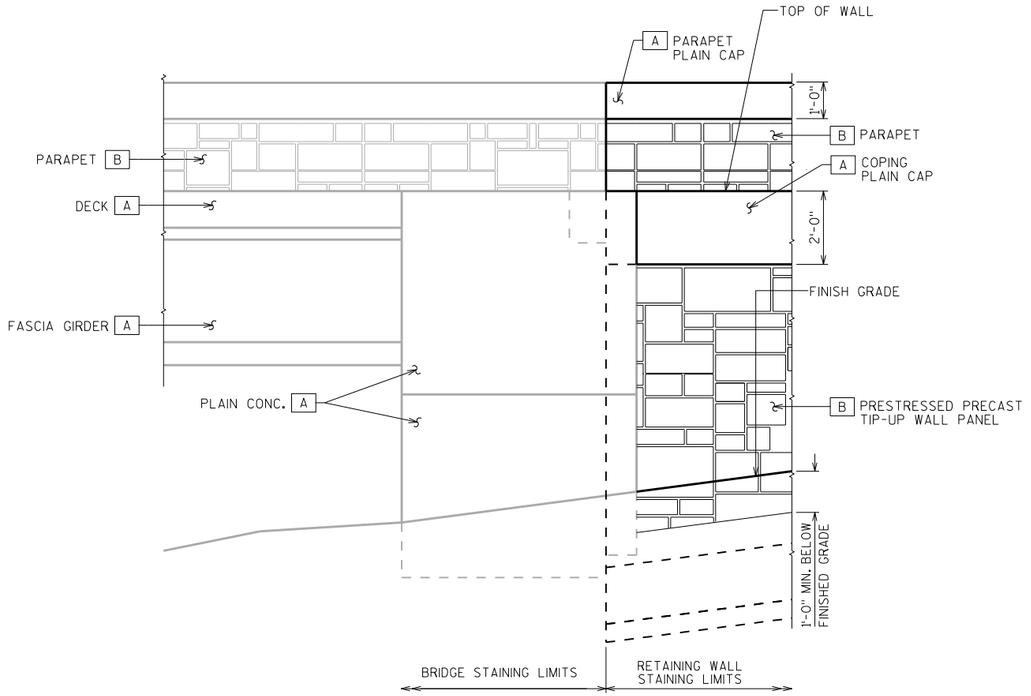
FORMLINER ON PARAPETS SHALL BE PARALLEL TO TOP OF PARAPET.



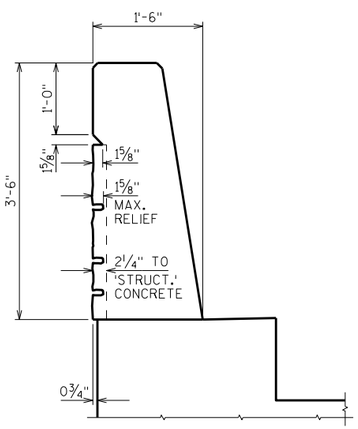
ASHLAR

MAXIMUM RELIEF: 1⅝"
AVERAGE RELIEF: 1¼"
LINER THICKNESS*: 2½"
STONE SIZE: H: 3" - 17"
W: 5"-29"

* INCLUDES INTERNAL PLYWOOD BACKING



RETAINING WALL STAINING DETAIL



SECTION THRU 42SS MODIFIED PARAPET

8

8

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
STRUCTURES DESIGN SECTION

STRUCTURE R-70-151

DRAWN BY ABS | PLANS CK'D. EMK

AESTHETIC DETAILS

SHEET 8

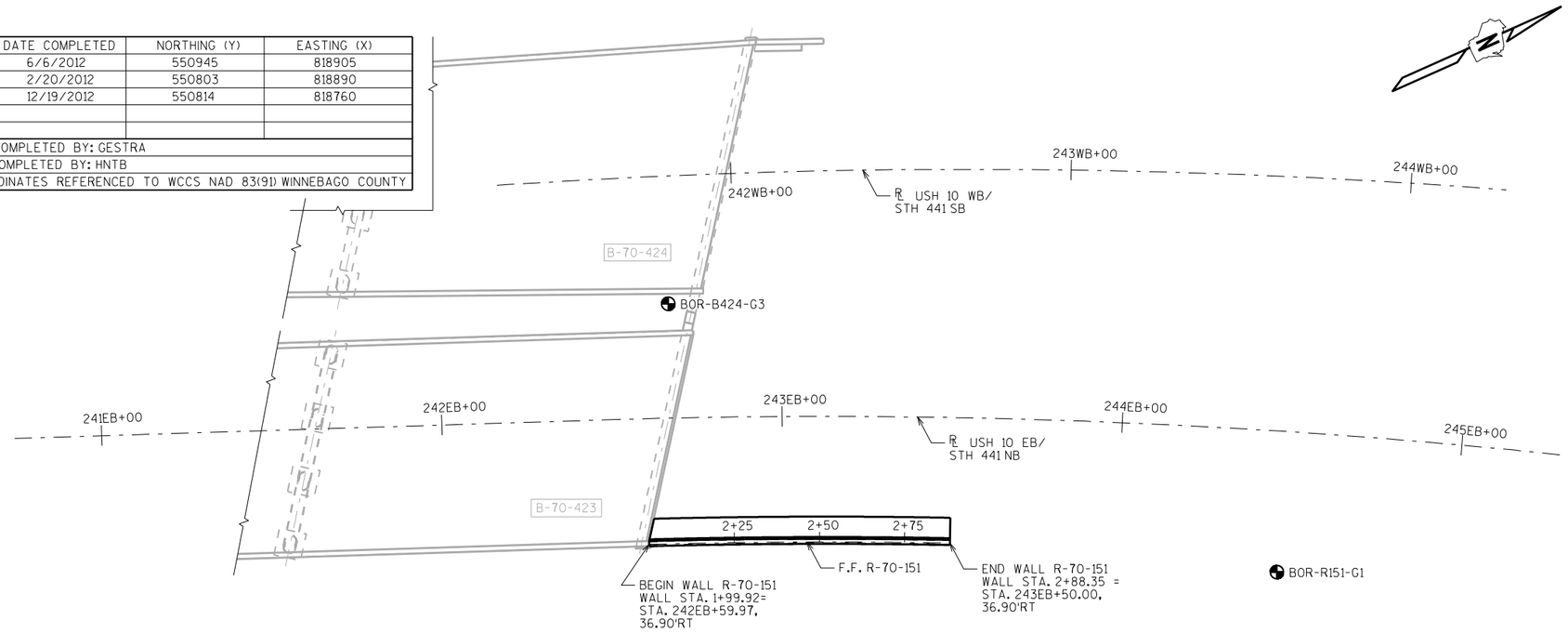
532

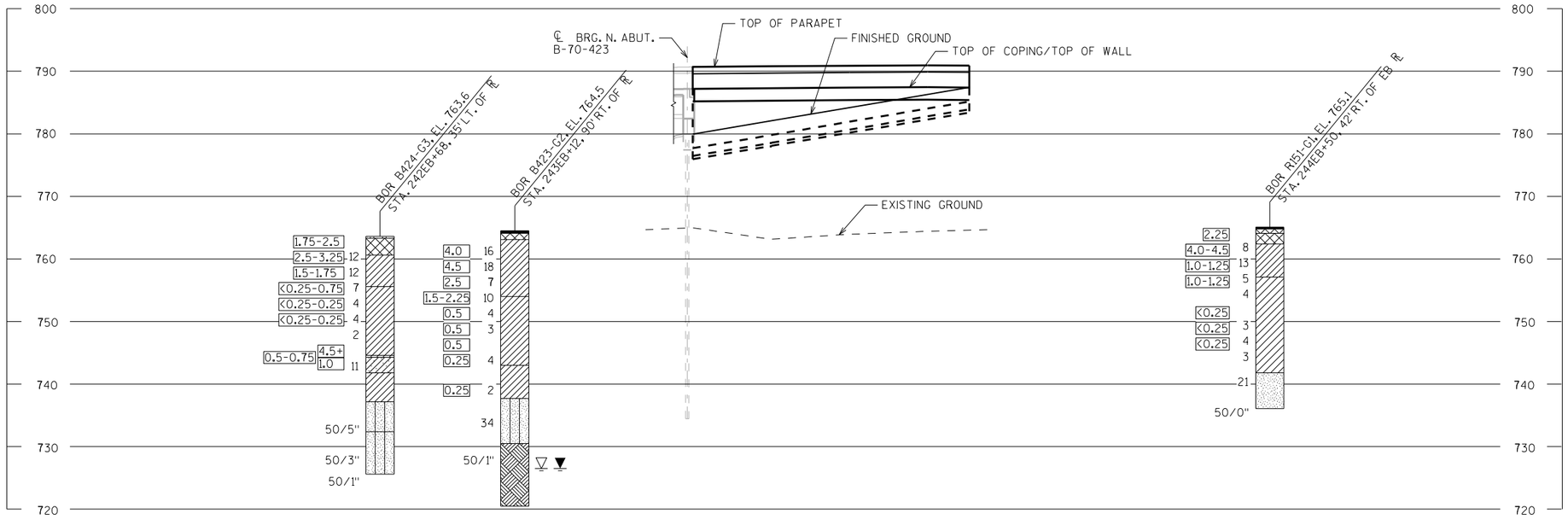
SCALE = 1.00

USH 10/STH 441

BORING #	DATE COMPLETED	NORTHING (Y)	EASTING (X)
R151-G1	6/6/2012	550945	818905
B423-G2	2/20/2012	550803	818890
B424-G3	12/19/2012	550814	818760

BORINGS COMPLETED BY: GESTRA
REPORT COMPLETED BY: HNTB
ALL COORDINATES REFERENCED TO WCCS NAD 83(91) WINNEBAGO COUNTY





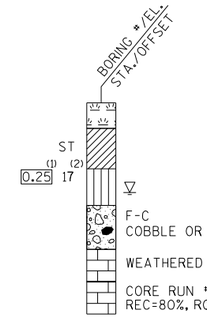
STATE PROJECT NUMBER

1517-75-72

MATERIAL SYMBOLS

ASPHALT	TOPSOIL	PEAT
CONCRETE	FILL	GRAVEL
SAND	CLAY	SILT
BOULDERS OR COBBLES	LIMESTONE	BEDROCK (UNKNOWN)
SHALE	SANDSTONE	IGNEOUS/ META

LEGEND OF BORING



(1) UNCONFINED STRENGTH, AS DETERMINED BY A POCKET PENETROMETER (TSF)

(2) UNLESS OTHERWISE SPECIFIED THE SPT 'N' VALUE IS BASED ON AASHTO T-206, STANDARD PENETRATION TEST. THE SPT 'N' VALUE PRESENTED HAS NOT BEEN CORRECTED FOR OVERBURDEN PRESSURE OR HAMMER EFFICIENCY.

GROUND WATER ELEVATION

- AT TIME OF DRILLING
- END OF DRILLING
- AFTER DRILLING

ABBREVIATIONS

F-FINE M-MEDIUM C-COARSE ST-SHELBY TUBE

SUBSURFACE EXPLORATION FOR FOUNDATION DESIGN AND BIDDERS INFORMATION

BORINGS WERE COMPLETED AT POINTS APPROXIMATELY AS INDICATED ON THIS DRAWING TO OBTAIN INFORMATION CONCERNING THE CHARACTER OF SUBSURFACE MATERIALS FOUND AT THE SITE. BECAUSE THE INVESTIGATED DEPTHS ARE LIMITED AND THE AREA OF THE BORINGS IS VERY SMALL IN RELATION TO THE ENTIRE SITE, THE WISCONSIN DEPARTMENT OF TRANSPORTATION DOES NOT WARRANT SIMILAR SUBSURFACE CONDITIONS BELOW, BETWEEN, OR BEYOND THESE BORINGS. VARIATIONS IN SOIL CONDITIONS SHOULD BE EXPECTED AND FLUCTUATIONS IN GROUNDWATER LEVELS MAY OCCUR.

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION
STRUCTURES DESIGN SECTION

STRUCTURE R-70-151

DRAWN BY PR/ABS | PLANS CK'D. EMK

SUBSURFACE EXPLORATION

SHEET 9

533

SCALE = 20.00

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PROJECT ID 1517-75-72
STAGE 1A - USH 10 EB/STH 441 NB (EB)
STA 217EB+00 TO 228EB+00

Station	Distance	Area (SF)				Incremental Volume (CY) (Unadjusted)				Cumulative Volume (CY)				Mass Ordinate
		Cut	Fill Lift 1	Fill Lift 2	Fill Lift 3	Cut	Fill Lift 1	Fill Lift 2	Fill Lift 3	Cut	Fill Lift 1	Fill Lift 2	Fill Lift 3	
217+00	0	58.16	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
217+50	50	77.77	0	0	0	125.86	0.00	0.00	0.00	125.86	0.00	0.00	0.00	125.86
218+00	50	86.24	0	0	0	151.86	0.00	0.00	0.00	277.72	0.00	0.00	0.00	277.72
218+13	13	66.88	0	0	0	38.14	0.00	0.00	0.00	315.86	0.00	0.00	0.00	315.86
218+50	37	100.81	0	0	0	113.50	0.00	0.00	0.00	429.36	0.00	0.00	0.00	429.36
219+00	50	117.37	0	0	0	202.02	0.00	0.00	0.00	631.38	0.00	0.00	0.00	631.38
219+50	50	115.4	0	0	0	215.53	0.00	0.00	0.00	846.91	0.00	0.00	0.00	846.91
220+00	50	124.35	0	0	0	221.99	0.00	0.00	0.00	1,068.90	0.00	0.00	0.00	1,068.90
220+50	50	128.15	0	0	0	233.80	0.00	0.00	0.00	1,302.70	0.00	0.00	0.00	1,302.70
221+00	50	111.02	0	0	0	221.45	0.00	0.00	0.00	1,524.15	0.00	0.00	0.00	1,524.15
221+50	50	122.06	0	0	0	215.81	0.00	0.00	0.00	1,739.96	0.00	0.00	0.00	1,739.96
222+00	50	84.12	0	0	0	190.91	0.00	0.00	0.00	1,930.87	0.00	0.00	0.00	1,930.87
222+50	50	88.73	0	0	0	160.05	0.00	0.00	0.00	2,090.92	0.00	0.00	0.00	2,090.92
223+00	50	88.21	0	0	0	164.00	0.00	0.00	0.00	2,254.91	0.00	0.00	0.00	2,254.91
223+50	50	196.98	0	0	0	263.80	0.00	0.00	0.00	2,518.72	0.00	0.00	0.00	2,518.72
224+00	50	175.52	0	0	0	344.91	0.00	0.00	0.00	2,863.62	0.00	0.00	0.00	2,863.62
224+50	50	128.58	0	0	0	281.57	0.00	0.00	0.00	3,145.20	0.00	0.00	0.00	3,145.20
225+00	50	56.49	0.66	0	0	171.36	0.61	0.00	0.00	3,316.56	0.61	0.00	0.00	3,315.95
225+31	31	16.2	19.34	0	0	42.34	11.65	0.00	0.00	3,358.89	12.26	0.00	0.00	3,346.63
225+50	19	8.21	52.59	0	0	8.39	24.71	0.00	0.00	3,367.28	36.97	0.00	0.00	3,330.31
225+60	10	4.11	71.42	0	0	2.29	23.08	0.00	0.00	3,369.57	60.05	0.00	0.00	3,309.52
226+00	40	4.08	71.63	0	0	6.06	105.83	0.00	0.00	3,375.63	165.88	0.00	0.00	3,209.75
226+50	50	20.48	173.64	0	0	22.74	227.10	0.00	0.00	3,398.37	392.98	0.00	0.00	3,005.39
227+00	50	43.29	312.54	0	0	59.05	450.17	0.00	0.00	3,457.42	843.15	0.00	0.00	2,614.27
227+50	50	16.85	443.07	0	0	55.69	699.64	0.00	0.00	3,513.10	1,542.79	0.00	0.00	1,970.32
228+00	50	0.46	529.43	0	0	16.03	900.46	0.00	0.00	3,529.13	2,443.25	0.00	0.00	1,085.88
SUBTOTAL						3,529.13	2,443.25	0.00	0.00					

PROJECT ID 1517-75-72
STAGE 1A - USH 10 EB/STH 441 NB (EB)
STA 228EB+00 TO 238EB+50 (STRIP DRAINS AREA 1)

Station	Distance	Area (SF)				Incremental Volume (CY) (Unadjusted)				Cumulative Volume (CY)				Mass Ordinate
		Cut	Fill Lift 1	Fill Lift 2	Fill Lift 3	Cut	Fill Lift 1	Fill Lift 2	Fill Lift 3	Cut	Fill Lift 1	Fill Lift 2	Fill Lift 3	
228+00	0	135.45	550.21	0	0	135.45	550.21	0.00	0.00	135.45	550.21	0.00	0.00	-414.76
228+50	50	168.9	597.9	0	0	281.81	1,063.06	0.00	0.00	417.26	1,613.27	0.00	0.00	-1,196.02
229+00	50	191.92	621.28	0	0	334.09	1,128.87	0.00	0.00	751.35	2,742.15	0.00	0.00	-1,990.80
229+50	50	199.36	691.7	0	0	362.30	1,215.72	0.00	0.00	1,113.64	3,957.87	0.00	0.00	-2,844.22
230+00	50	192.51	740.96	0	0	362.84	1,326.54	0.00	0.00	1,476.49	5,284.40	0.00	0.00	-3,807.92
230+50	50	176.42	780.23	0	0	341.60	1,408.51	0.00	0.00	1,818.09	6,692.91	0.00	0.00	-4,874.82
230+94	44	141.23	834.17	0	0	260.88	1,325.90	0.00	0.00	2,078.97	8,018.81	0.00	0.00	-5,939.84
231+00	6	134.69	894.35	0	0	28.87	180.85	0.00	0.00	2,107.84	8,199.67	0.00	0.00	-6,091.83
231+50	50	121.47	907.99	0	0	237.19	1,668.83	0.00	0.00	2,345.03	9,868.50	0.00	0.00	-7,523.47
232+00	50	114.19	973.06	0	0	218.20	1,741.71	0.00	0.00	2,563.23	11,610.22	0.00	0.00	-9,046.98
232+50	50	94.11	1056.5	0	0	192.87	1,879.22	0.00	0.00	2,756.10	13,489.44	0.00	0.00	-10,733.34
233+00	50	78.74	1106.25	0	0	160.05	2,002.55	0.00	0.00	2,916.15	15,491.98	0.00	0.00	-12,575.84
233+50	50	72.49	1175.3	0	0	140.03	2,112.55	0.00	0.00	3,056.18	17,604.53	0.00	0.00	-14,548.35
233+85	35	73.85	1226.63	0	0	94.99	1,559.03	0.00	0.00	3,151.16	19,163.56	0.00	0.00	-16,012.40
234+00	15	75.01	1248.96	0	0	41.21	685.37	0.00	0.00	3,192.37	19,848.93	0.00	0.00	-16,656.56
234+50	50	121.63	1248.04	0	0	182.07	2,312.04	0.00	0.00	3,374.45	22,160.97	0.00	0.00	-18,786.52
235+00	50	126.67	1185.2	0	0	229.91	2,253.00	0.00	0.00	3,604.36	24,413.97	0.00	0.00	-20,809.61
235+50	50	200.6	1128.67	0	0	303.03	2,142.47	0.00	0.00	3,907.38	26,556.44	0.00	0.00	-22,649.06
236+00	50	258.37	1181.78	0	0	424.97	2,139.31	0.00	0.00	4,332.36	28,695.75	0.00	0.00	-24,363.39
236+50	50	314.44	1304.64	0	0	530.38	2,302.24	0.00	0.00	4,862.74	30,997.99	0.00	0.00	-26,135.25
237+00	50	149.2	1544.12	0	0	429.30	2,637.74	0.00	0.00	5,292.03	33,635.73	0.00	0.00	-28,343.70
237+50	50	49.05	1919.42	0	0	183.56	3,206.98	0.00	0.00	5,475.60	36,842.71	0.00	0.00	-31,367.11
238+00	50	55.75	2201.11	11.06	0	97.04	3,815.30	10.24	0.00	5,572.63	40,658.01	10.24	0.00	-35,095.62
238+50	50	59.16	2512.78	12.63	0	106.40	4,364.71	21.93	0.00	5,679.03	45,022.73	32.17	0.00	-39,375.87
SUBTOTAL						5,679.03	45,022.73	32.17	0.00					

PROJECT ID 1517-75-72
STAGE 1A - USH 10 EB/STH 441 N8 (EB)
STA 238EB+50 TO 240EB+59 (STRIP DRAINS AREA 2)

Station	Distance	Area (SF)				Incremental Volume (CY) (Unadjusted)				Cumulative Volume (CY)				Mass Ordinate
		Cut	Fill Lift 1	Fill Lift 2	Fill Lift 3	Cut	Fill Lift 1	Fill Lift 2	Fill Lift 3	Cut	Fill Lift 1	Fill Lift 2	Fill Lift 3	
238-50	0	59.16	2512.78	12.63	0	59.16	2,512.78	12.63	0.00	59.16	2,512.78	12.63	0.00	-2,466.25
239-00	50	49.59	2921.10	29.51	0	100.69	5,031.38	39.01	0.00	159.85	7,544.16	51.64	0.00	-7,435.94
239-50	50	62.63	3047.36	338.60	0	104.01	5,531.88	341.18	0.00	263.87	13,076.04	392.81	0.00	-13,204.99
240-00	50	61.89	3013.08	334.79	0	115.18	5,605.91	622.88	0.00	379.05	18,681.94	1,015.69	0.00	-19,318.59
240-50	50	103.08	2807.69	495.48	0	152.75	5,389.61	768.76	0.00	531.80	24,071.55	1,784.45	0.00	-25,324.21
240-59	9	102.54	2723.61	480.64	0	34.27	921.88	162.69	0.00	566.07	24,993.44	1,947.14	0.00	-26,374.51
SUBTOTAL						566.07	24,993.44	1,947.14	0.00					

PROJECT ID 1517-75-72
STAGE 1A - USH 10 EB/STH 441 N8 (EB)
STA 242EB+74 TO 244EB+00 (STRIP DRAINS AREA 3)

Station	Distance	Area (SF)				Incremental Volume (CY) (Unadjusted)				Cumulative Volume (CY)				Mass Ordinate
		Cut	Fill Lift 1	Fill Lift 2	Fill Lift 3	Cut	Fill Lift 1	Fill Lift 2	Fill Lift 3	Cut	Fill Lift 1	Fill Lift 2	Fill Lift 3	
242-74	0	206.25	1719.86	458.63	114.66	206.25	1,719.86	458.63	114.66	206.25	1,719.86	458.63	114.66	-2,086.90
243-00	26	331.12	4601.00	1226.93	306.73	255.25	3,002.41	800.64	200.16	461.50	4,722.27	1,259.27	314.82	-5,834.86
243-50	50	347.4	4707.78	882.71	294.24	628.89	8,627.85	1,955.32	557.01	1,090.39	13,350.12	3,214.60	871.83	-16,346.16
244-00	50	487.58	1809.90	507.64	58.19	772.36	6,028.85	1,286.07	326.00	1,862.74	19,378.97	4,500.67	1,197.83	-23,214.73
SUBTOTAL						1,862.74	19,378.97	4,500.67	1,197.83					

PROJECT ID 1517-75-72
STAGE 1A - USH 10 EB/STH 441 N8 (EB)
STA 244EB+00 TO 247EB+50 (STRIP DRAINS AREA 4)

Station	Distance	Area (SF)				Incremental Volume (CY) (Unadjusted)				Cumulative Volume (CY)				Mass Ordinate
		Cut	Fill Lift 1	Fill Lift 2	Fill Lift 3	Cut	Fill Lift 1	Fill Lift 2	Fill Lift 3	Cut	Fill Lift 1	Fill Lift 2	Fill Lift 3	
244-00	0	487.58	1809.90	507.64	58.19	487.58	1,809.90	507.64	58.19	487.58	1,809.90	507.64	58.19	-1,888.16
244-50	50	632.18	1224.49	467.24	127.28	1,036.81	2,809.62	902.67	171.74	1,524.39	4,619.52	1,410.31	229.93	-4,735.37
245-00	50	577.66	866.91	564.84	46.57	1,120.22	1,936.48	955.63	160.98	2,644.62	6,556.00	2,365.95	390.91	-6,668.23
245-50	50	520.88	675.81	518.48	26.66	1,017.17	1,428.44	1,003.07	67.80	3,661.78	7,984.44	3,369.02	458.71	-8,150.38
246-00	50	596.86	549.77	577.62	236.66	1,034.94	1,134.79	1,014.90	243.81	4,696.73	9,119.23	4,383.92	702.52	-9,508.95
246-50	50	749.11	674.41	559.45	142.80	1,246.27	1,133.50	1,052.84	351.35	5,943.00	10,252.73	5,436.77	1,053.88	-10,800.37
247-00	50	590.62	624.40	485.13	148.59	1,240.49	1,202.60	967.21	269.80	7,183.49	11,455.33	6,403.97	1,323.67	-11,999.48
247-50	50	335.24	174.52	552.54	62.68	857.28	739.74	960.80	195.61	8,040.77	12,195.06	7,364.78	1,519.29	-13,038.36
SUBTOTAL						8,040.77	12,195.06	7,364.78	1,519.29					

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PROJECT ID 1517-75-72
STAGE 1A - USH 10 EB/STH 441 N8 (EB)
STA 247EB+50 TO 252EB+50 (STRIP DRAINS AREA 5)

Station	Distance	Area (SF)				Incremental Volume (CY) (Unadjusted)				Cumulative Volume (CY)				Mass Ordinate
		Cut	Fill Lift 1	Fill Lift 2	Fill Lift 3	Cut	Fill Lift 1	Fill Lift 2	Fill Lift 3	Cut	Fill Lift 1	Fill Lift 2	Fill Lift 3	
247-50	0	335.24	174.53	552.55	62.69	335.24	174.53	552.55	62.69	335.24	174.53	552.55	62.69	-454.52
248-00	50	543.81	552.23	484.95	80.62	813.94	672.92	960.64	132.69	1,149.18	847.45	1,513.19	195.38	-1,406.84
248-50	50	753.79	780.33	306.28	117.99	1,201.48	1,233.85	732.62	183.90	2,350.66	2,081.31	2,245.81	379.27	-2,355.73
249-00	50	837.61	952.87	294.92	73.17	1,474.99	1,606.42	557.23	177.18	3,825.65	3,687.72	2,803.04	556.45	-3,221.56
249-50	50	764.36	675.68	330.47	44.12	1,481.82	1,506.41	578.49	108.49	5,307.47	5,194.13	3,381.52	664.94	-3,933.13
250-00	50	679.26	701.75	240.66	87.12	1,336.69	1,275.40	528.82	121.52	6,644.16	6,469.53	3,910.34	786.46	-4,522.17
250-50	50	600.5	629.66	103.82	63.92	1,184.96	1,232.78	318.96	139.84	7,829.12	7,702.31	4,229.30	926.30	-5,028.79
251-00	50	621.22	285.17	260.13	11.23	1,132.35	847.91	337.33	69.64	8,961.47	8,550.22	4,566.63	995.95	-5,151.32
251-50	50	625.46	110.45	215.60	84.92	1,153.18	365.95	440.05	88.93	10,114.65	8,916.17	5,006.68	1,084.88	-4,893.07
252-00	50	679.52	83.35	174.33	40.23	1,208.31	179.44	361.04	115.88	11,322.97	9,095.61	5,367.72	1,200.75	-4,341.12
252-50	50	683.4	64.45	153.88	30.31	1,261.96	136.85	303.90	65.31	12,584.93	9,232.46	5,671.62	1,266.07	-3,585.22
SUBTOTAL						12,584.93	9,232.46	5,671.62	1,266.07					

PROJECT ID 1517-75-72
STAGE 1A - USH 10 EB/STH 441 N8 (EB)
STA 252EB+50 TO 260EB+00 (STRIP DRAINS AREA 6 AND 7)

Station	Distance	Area (SF)				Incremental Volume (CY) (Unadjusted)				Cumulative Volume (CY)				Mass Ordinate
		Cut	Fill Lift 1	Fill Lift 2	Fill Lift 3	Cut	Fill Lift 1	Fill Lift 2	Fill Lift 3	Cut	Fill Lift 1	Fill Lift 2	Fill Lift 3	
252-50	0	683.4	64.45	153.88	30.31	683.40	64.45	153.88	30.31	683.40	64.45	153.88	30.31	434.76
253-00	50	684.48	261.78	411.36	74.79	1,266.56	302.06	523.38	97.32	1,949.96	366.51	677.26	127.62	778.57
253-50	50	594.76	396.62	440.69	44.07	1,184.48	609.62	788.93	110.06	3,134.44	976.13	1,466.19	237.68	454.44
254-00	50	490.72	214.46	428.92	428.92	1,005.07	565.81	805.19	437.95	4,139.51	1,541.94	2,271.38	675.63	-349.44
254-15	15	483.67	580.88	580.88	0	276.08	225.34	286.11	121.53	4,415.59	1,767.29	2,557.49	797.16	-706.35
254-50	35	478.18	694.88	694.88	0	618.08	819.79	819.79	0.00	5,033.67	2,587.08	3,377.28	797.16	-1,727.85
255-00	50	461.96	813.07	665.24	0	870.50	1,396.25	1,259.37	0.00	5,904.17	3,983.33	4,636.65	797.16	-3,512.97
255-50	50	827.89	998.83	665.89	0	1,194.31	1,677.69	1,232.53	0.00	7,098.47	5,661.01	5,869.18	797.16	-5,228.88
256-00	50	1299.51	1358.10	731.29	0	1,969.81	2,182.35	1,293.68	0.00	9,068.29	7,843.36	7,162.86	797.16	-6,735.09
256-50	50	1583.83	2163.61	540.90	0	2,669.76	3,260.84	1,177.95	0.00	11,738.05	11,104.21	8,340.81	797.16	-8,504.13
257-00	50	472.8	1961.60	346.17	0	1,904.29	3,819.64	821.36	0.00	13,642.33	14,923.85	9,162.17	797.16	-11,240.84
257-50	50	381.68	1854.52	206.06	0	791.19	3,533.45	511.32	0.00	14,433.52	18,457.30	9,673.49	797.16	-14,494.43
258-00	50	430.5	1589.11	83.64	0	752.02	3,188.55	268.24	0.00	15,185.54	21,645.85	9,941.72	797.16	-17,199.19
258-50	50	469.26	1343.20	70.69	0	833.11	2,715.10	142.90	0.00	16,018.65	24,360.95	10,084.62	797.16	-19,224.08
259-00	50	436.49	917.97	48.31	0	838.66	2,093.67	110.19	0.00	16,857.30	26,454.62	10,194.81	797.16	-20,589.29
259-50	50	438.67	700.88	36.89	0	810.33	1,498.93	78.89	0.00	17,667.64	27,953.55	10,273.71	797.16	-21,356.78
260-00	50	446.6	574.63	30.24	0	819.69	1,181.03	62.16	0.00	18,487.33	29,134.57	10,335.87	797.16	-21,780.27
SUBTOTAL						18,487.33	29,134.57	10,335.87	797.16					

PROJECT ID 1517-75-72
STAGE 1A - USH 10 EB/STH 441 NB (EB)
STA 260EB+00 TO 278EB+00

Station	Distance	Area (SF)				Incremental Volume (CY) (Unadjusted)				Cumulative Volume (CY)				Mass Ordinate
		Cut	Fill Lift 1	Fill Lift 2	Fill Lift 3	Cut	Fill Lift 1	Fill Lift 2	Fill Lift 3	Cut	Fill Lift 1	Fill Lift 2	Fill Lift 3	
260+00	0	446.6	574.63	30.24	0	446.60	574.63	30.24	0.00	446.60	574.63	30.24	0.00	-158.27
260+50	50	362.56	422.82	0	0	749.22	923.56	28.00	0.00	1,195.82	1,498.19	58.25	0.00	-360.61
261+00	50	399.27	322.81	0	0	706.10	691.09	0.00	0.00	1,901.93	2,189.28	58.25	0.00	-345.60
261+50	50	442.63	229.25	0	0	778.76	510.66	0.00	0.00	2,680.68	2,699.93	58.25	0.00	-77.50
262+00	50	475.56	175.54	0	0	850.18	374.81	0.00	0.00	3,530.86	3,074.74	58.25	0.00	397.87
262+50	50	523.93	125.23	0	0	925.45	278.49	0.00	0.00	4,456.31	3,353.23	58.25	0.00	1,044.84
263+00	50	436.03	73.48	0	0	888.85	183.99	0.00	0.00	5,345.16	3,537.22	58.25	0.00	1,749.70
263+50	50	367.4	38.39	0	0	743.92	103.58	0.00	0.00	6,089.08	3,640.80	58.25	0.00	2,390.03
264+00	50	308.1	28.53	0	0	625.46	61.96	0.00	0.00	6,714.54	3,702.77	58.25	0.00	2,953.53
264+50	50	271.42	17.97	0	0	536.59	43.06	0.00	0.00	7,251.14	3,745.82	58.25	0.00	3,447.07
265+00	50	273.97	14.17	0	0	504.99	29.76	0.00	0.00	7,756.13	3,775.58	58.25	0.00	3,922.30
265+25	25	285.4	11.14	0	0	258.97	11.72	0.00	0.00	8,015.10	3,787.30	58.25	0.00	4,169.55
265+50	25	294.63	4.77	0	0	268.53	7.37	0.00	0.00	8,283.63	3,794.66	58.25	0.00	4,430.72
266+00	50	299.7	0	0	0	550.31	4.42	0.00	0.00	8,833.93	3,799.08	58.25	0.00	4,976.61
266+08	8	299.54	0	0	0	83.23	0.00	0.00	0.00	8,917.16	3,799.08	58.25	0.00	5,059.83
266+50	43	285.67	12.48	0	0	460.58	9.82	0.00	0.00	9,377.74	3,808.90	58.25	0.00	5,510.59
267+00	50	287.71	8.15	0	0	530.91	19.10	0.00	0.00	9,908.65	3,828.00	58.25	0.00	6,022.40
267+50	50	283.05	11.3	0	0	528.48	18.01	0.00	0.00	10,437.13	3,846.01	58.25	0.00	6,532.87
268+00	50	280.54	15.5	0	0	522.36	24.84	0.00	0.00	10,959.50	3,870.85	58.25	0.00	7,030.40
268+50	50	260.43	18.7	0	0	500.40	31.64	0.00	0.00	11,459.89	3,902.49	58.25	0.00	7,499.16
269+00	50	247.71	24.46	0	0	470.50	39.96	0.00	0.00	11,930.39	3,942.45	58.25	0.00	7,929.70
269+50	50	238.5	27.57	0	0	450.19	48.18	0.00	0.00	12,380.59	3,990.63	58.25	0.00	8,331.71
270+00	50	228.64	25.73	0	0	432.54	49.35	0.00	0.00	12,813.13	4,039.98	58.25	0.00	8,714.90
270+50	50	196.49	25.48	0	0	393.64	47.42	0.00	0.00	13,206.76	4,087.40	58.25	0.00	9,061.12
270+75	25	206.54	36.25	0	0	186.59	28.58	0.00	0.00	13,393.35	4,115.97	58.25	0.00	9,219.13
271+00	25	206.45	39.59	0	0	191.20	35.11	0.00	0.00	13,584.55	4,151.09	58.25	0.00	9,375.22
271+35	35	215.57	42.6	0	0	273.53	53.27	0.00	0.00	13,858.08	4,204.36	58.25	0.00	9,595.48
271+50	15	218.5	43.51	0	0	120.58	23.92	0.00	0.00	13,978.66	4,228.28	58.25	0.00	9,692.13
271+65	15	212.77	45.87	0	0	119.80	24.83	0.00	0.00	14,098.45	4,253.10	58.25	0.00	9,787.10
272+00	35	192.88	36.98	0	0	262.92	53.70	0.00	0.00	14,361.38	4,306.80	58.25	0.00	9,996.33
272+15	15	185.01	32.94	0	0	104.97	19.42	0.00	0.00	14,466.35	4,326.23	58.25	0.00	10,081.87
272+40	25	177.44	27.68	0	0	167.80	28.06	0.00	0.00	14,634.15	4,354.29	58.25	0.00	10,221.61
272+50	10	178.35	24.51	0	0	65.89	9.66	0.00	0.00	14,700.03	4,363.95	58.25	0.00	10,277.83
273+00	50	180.07	28.89	0	0	331.87	49.44	0.00	0.00	15,031.90	4,413.40	58.25	0.00	10,560.26
273+50	50	168.81	46.81	0	0	323.04	70.09	0.00	0.00	15,354.94	4,483.49	58.25	0.00	10,813.20
273+75	25	164.27	49.82	0	0	154.51	44.83	0.00	0.00	15,509.45	4,528.32	58.25	0.00	10,922.89
274+00	25	169.55	53.85	0	0	154.24	47.90	0.00	0.00	15,663.69	4,576.22	58.25	0.00	11,029.23
274+50	50	182.57	78.79	0	0	326.04	122.81	0.00	0.00	15,989.73	4,699.03	58.25	0.00	11,232.45
275+00	50	190.46	90.38	0	0	345.40	156.64	0.00	0.00	16,335.13	4,855.67	58.25	0.00	11,421.21
275+02	2	190.12	90.27	0	0	11.63	5.52	0.00	0.00	16,346.75	4,861.19	58.25	0.00	11,427.32
275+50	48	104.44	124.5	0	0	263.74	192.30	0.00	0.00	16,610.49	5,053.49	58.25	0.00	11,498.76
276+00	50	99.39	90.09	0	0	188.73	198.69	0.00	0.00	16,799.23	5,252.18	58.25	0.00	11,488.80
276+50	50	95.02	77.02	0	0	180.01	154.73	0.00	0.00	16,979.24	5,406.92	58.25	0.00	11,514.07
277+00	50	97	74.55	0	0	177.80	140.34	0.00	0.00	17,157.03	5,547.26	58.25	0.00	11,551.53
277+50	50	94.59	62.49	0	0	177.40	126.89	0.00	0.00	17,334.43	5,674.15	58.25	0.00	11,602.04
278+00	50	97.19	57.54	0	0	177.57	111.14	0.00	0.00	17,512.00	5,785.29	58.25	0.00	11,668.47
SUBTOTAL						17,512.00	5,785.29	58.25	0.00					

CUMMULATIVE TOTAL	68,262.00	148,185.77	29,910.50	4,780.34

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PROJECT ID 1517-75-72
STAGE 1A - TEMPORARY USH 10 EB/STH 441 NB (EBT)

Station	Distance	Area (SF)		Incremental Volume (CY) (Unadjusted)		Cumulative Volume (CY)		Mass Ordinate
		Cut	Fill	Cut	Fill	Cut	Fill	
244+50	0	704.06	10.17	0.00	0.00	0.00	0.00	0.00
245+00	50	1601.85	143.17	2,135.10	141.98	2,135.10	141.98	1,993.12
245+50	50	1234.85	53.2	2,626.57	181.82	4,761.68	323.81	4,437.87
246+00	50	1384.17	1.56	2,425.02	50.70	7,186.69	374.51	6,812.19
246+50	50	1656.18	0.04	2,815.14	1.48	10,001.83	375.99	9,625.84
247+00	50	1987.26	2.09	3,373.56	1.97	13,375.39	377.96	12,997.43
247+50	50	2370.87	7.98	4,035.31	9.32	17,410.69	387.29	17,023.41
248+00	50	2648.65	5.3	4,647.70	12.30	22,058.40	399.58	21,658.81
248+50	50	2821.61	4.66	5,065.06	9.22	27,123.45	408.81	26,714.65
249+00	50	3000.12	5.72	5,390.49	9.61	32,513.94	418.42	32,095.53
249+50	50	3111.06	10.82	5,658.50	15.31	38,172.44	433.73	37,738.71
250+00	50	3203.09	13.13	5,846.44	22.18	44,018.88	455.91	43,562.97
250+50	50	3265.93	21.1	5,989.83	31.69	50,008.71	487.60	49,521.11
251+00	50	3302.41	28.13	6,081.80	45.58	56,090.51	533.19	55,557.32
251+50	50	3340.93	24.1	6,151.24	48.36	62,241.75	581.55	61,660.20
252+00	50	3350.28	24.6	6,195.56	45.09	68,437.31	626.64	67,810.68
252+50	50	3307.57	20.45	6,164.68	41.71	74,601.99	668.35	73,933.64
253+00	50	3211.26	14.58	6,035.95	32.44	80,637.94	700.79	79,937.16
253+50	50	3015.48	8.61	5,765.50	21.47	86,403.44	722.26	85,681.19
254+00	50	2780.65	7.78	5,366.79	15.18	91,770.23	737.44	91,032.80
254+50	50	2575.08	2.9	4,959.01	9.89	96,729.24	747.32	95,981.92
255+00	50	2398.37	1.69	4,605.05	4.25	101,334.29	751.57	100,582.71
255+50	50	2227.78	1.24	4,283.47	2.71	105,617.76	754.29	104,863.47
256+00	50	2088.79	0.62	3,996.82	1.72	109,614.58	756.01	108,858.57
256+50	50	1978.83	0.48	3,766.31	1.02	113,380.90	757.03	112,623.87
257+00	50	1912.17	0.3	3,602.78	0.72	116,983.68	757.75	116,225.93
257+50	50	1860.67	0.28	3,493.37	0.54	120,477.05	758.29	119,718.76
258+00	50	1803.93	0.29	3,393.15	0.53	123,870.19	758.81	123,111.38
258+50	50	1743.42	0.19	3,284.58	0.44	127,154.78	759.26	126,395.52
259+00	50	1722.87	0.23	3,209.53	0.39	130,364.31	759.65	129,604.66
259+50	50	1251.53	0.08	2,754.07	0.29	133,118.38	759.94	132,358.44
259+70	20	756.71	0.12	743.79	0.07	133,862.17	760.01	133,102.16
		Cumulative Total		133,862.17	760.01			

PROJECT ID 1517-75-72
STAGE 1A - MIDWAY ROAD NE RAMP (MNE)

Station	Distance	Area (SF)			Incremental Volume (CY) (Unadjusted)			Cumulative Volume (CY)			Mass Ordinate
		Cut	Fill Lift 1	Fill Lift 2	Cut	Fill lift 1	Fill Lift 2	Cut	Fill Lift 1	Fill Lift 2	
244+50	0	261.36	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00
245+00	50	137.57	0	0	369.38	0.00	0.00	369.38	0.00	0.00	369.38
245+50	50	64.03	1.13	0	186.67	1.05	0.00	556.05	1.05	0.00	555.00
245+70	20	47.95	8.94	0	41.47	3.73	0.00	597.52	4.78	0.00	592.74
246+10	40	32.32	67.58	0	59.46	56.68	0.00	656.98	61.46	0.00	595.52
246+60	50	29	146.92	0	56.78	198.61	0.00	713.76	260.07	0.00	453.69
246+83	23	24.16	178.13	0	22.64	138.45	0.00	736.40	398.52	0.00	337.88
247+00	17	19.59	209.54	0	13.77	122.04	0.00	750.17	520.56	0.00	229.61
247+10	10	18.72	231.45	0	7.09	81.66	0.00	757.27	602.22	0.00	155.04
247+50	40	17.3	314.04	0	26.68	404.07	0.00	783.95	1,006.29	0.00	-222.34
247+75	25	13.72	423.36	0	14.36	341.39	0.00	798.31	1,347.68	0.00	-549.37
248+00	25	13.81	378.95	0	12.75	371.44	0.00	811.06	1,719.12	0.00	-908.07
248+50	50	15.24	361.38	0	26.90	685.49	0.00	837.95	2,404.61	0.00	-1,566.66
249+00	50	17.35	349.83	0	30.18	658.53	0.00	868.13	3,063.14	0.00	-2,195.01
249+50	50	17.3	371.32	0	32.08	667.73	0.00	900.21	3,730.87	0.00	-2,830.66
250+00	50	12.07	400.95	0	27.19	715.06	0.00	927.41	4,445.94	0.00	-3,518.53
250+50	50	11.92	431.96	0	22.21	771.21	0.00	949.62	5,217.15	0.00	-4,267.53
251+00	50	6.98	471.5	0	17.50	836.54	0.00	967.12	6,053.69	0.00	-5,086.57
251+50	50	9.51	464.14	24.43	15.27	866.33	22.62	982.39	6,920.02	22.62	-5,960.25
252+00	50	9.68	481.77	25.36	17.77	875.85	46.10	1,000.16	7,795.87	68.72	-6,864.43
252+50	50	11.54	474.86	24.99	19.65	885.77	46.62	1,019.81	8,681.64	115.34	-7,777.17
253+00	50	11.23	447.58	23.56	21.08	854.11	44.95	1,040.89	9,535.75	160.29	-8,655.15
253+50	50	8.5	429.83	22.62	18.27	812.42	42.76	1,059.16	10,348.17	203.05	-9,492.06
254+00	50	11.42	437.58	23.03	18.44	803.15	42.27	1,077.60	11,151.32	245.32	-10,319.04
254+50	50	18.12	475.94	25.05	27.35	845.85	44.52	1,104.95	11,997.17	289.84	-11,182.06
255+00	50	6.39	456.20	24.01	22.69	863.09	45.43	1,127.65	12,860.26	335.26	-12,067.88
255+50	50	17.64	459.31	24.17	22.25	847.69	44.62	1,149.90	13,707.95	379.88	-12,937.94
256+00	50	26.77	435.19	22.90	41.12	828.23	43.59	1,191.02	14,536.19	423.47	-13,768.64
256+50	50	19.38	393.04	20.69	42.73	766.88	40.36	1,233.75	15,303.07	463.83	-14,533.15
257+00	50	15.35	394.36	20.76	32.16	729.08	38.37	1,265.91	16,032.15	502.20	-15,268.44
257+50	50	2.6	394.77	20.78	16.62	730.68	38.46	1,282.53	16,762.83	540.66	-16,020.96
258+00	50	4.83	358.16	18.85	6.88	697.16	36.69	1,289.41	17,459.99	577.35	-16,747.94
258+50	50	10.25	359.46	18.92	13.96	664.46	34.97	1,303.37	18,124.45	612.33	-17,433.41
258+72	22	19.77	320.30	16.86	12.23	276.94	14.58	1,315.60	18,401.39	626.90	-17,712.69
				Cumulative totals	1,315.60	18,401.39	626.90				

PROJECT ID 1517-75-72
STAGE 1A - APPLETON ROAD SW RAMP (ASW)

Station	Distance	Area (SF)		Incremental Volume (CY) (Unadjusted)		Cumulative Volume (CY)		Mass Ordinate
		Cut	Fill	Cut	Fill	Cut	Fill	
1270+26	0	219.7	31.02	0.00	0.00	0.00	0.00	0.00
1270+50	24	210.2	36.73	191.07	30.11	191.07	30.11	160.96
1270+74	24	204.71	36.32	184.40	32.47	375.47	62.58	312.89
1271+00	26	204.17	39.44	196.87	36.48	572.34	99.05	473.28
1271+35	35	214.92	42.59	271.63	53.17	843.97	152.22	691.75
1271+50	15	216.34	43.4	119.79	23.89	963.77	176.11	787.66
1271+65	15	214.36	46.09	119.64	24.86	1,083.41	200.97	882.44
1272+00	35	192.46	37.6	263.68	54.24	1,347.08	255.21	1,091.87
1272+10	10	187.79	34.26	70.42	13.31	1,417.50	268.52	1,148.98
1272+15	5	186.26	33.34	34.63	6.26	1,452.14	274.78	1,177.36
1272+50	35	176.11	25.35	234.87	38.04	1,687.01	312.82	1,374.19
1273+00	50	179.04	28.89	328.84	50.22	2,015.85	363.04	1,652.81
1273+50	50	168.01	42.9	321.34	66.47	2,337.19	429.51	1,907.68
1274+00	50	166.84	55.2	310.05	90.83	2,647.24	520.34	2,126.89
1274+50	50	180.58	78.99	321.69	124.25	2,968.92	644.59	2,324.33
1275+00	50	178.47	90.47	332.45	156.91	3,301.38	801.50	2,499.87
1275+50	50	103.23	122.1	260.83	196.82	3,562.21	998.33	2,563.88
1276+00	50	100.31	89.41	188.46	195.84	3,750.67	1,194.17	2,556.50
1276+50	50	95.05	79.21	180.89	156.13	3,931.56	1,350.30	2,581.26
1277+00	50	97.02	78.75	177.84	146.26	4,109.40	1,496.56	2,612.85
1277+50	50	94.65	62.33	177.47	130.63	4,286.88	1,627.19	2,659.69
1278+00	50	96.46	57.06	176.95	110.55	4,463.83	1,737.73	2,726.10
1278+50	50	108.5	41.77	189.78	91.51	4,653.61	1,829.24	2,824.36
		Cumulative Total		4,653.61	1,829.24			

PROJECT ID 1517-75-72
STAGE 1A - NOISE WALL N-70-132

Station	Distance	Area (SF)		Incremental Volume (CY) (Unadjusted)		Cumulative Volume (CY)		Mass Ordinate
		Cut	Fill	Cut	Fill	Cut	Fill	
273+00	0	0	0.39	0.00	0.00	0.00	0.00	0.00
273+50	50	0	3.6	0.00	3.69	0.00	3.69	-3.69
274+00	50	0	6.57	0.00	9.42	0.00	13.11	-13.11
274+50	50	0	35.2	0.00	38.68	0.00	51.79	-51.79
275+00	50	0.12	44.71	0.11	73.99	0.11	125.78	-125.67
275+50	50	0	78.91	0.11	114.46	0.22	240.24	-240.02
276+00	50	0	58.12	0.00	126.88	0.22	367.12	-366.90
276+50	50	0	48.9	0.00	99.09	0.22	466.21	-465.99
277+00	50	2.83	51.28	2.62	92.76	2.84	558.97	-556.13
277+50	50	4.45	47.4	6.74	91.37	9.58	650.34	-640.76
278+00	50	5.85	37.95	9.54	79.03	19.12	729.37	-710.25
278+50	50	0	37.12	5.42	69.51	24.54	798.88	-774.34
279+00	50	0	30.33	0.00	62.45	24.54	861.33	-836.80
279+50	50	0	22.4	0.00	48.82	24.54	910.16	-885.62
280+00	50	0	13.09	0.00	32.86	24.54	943.02	-918.48
280+50	50	0	9.73	0.00	21.13	24.54	964.15	-939.61
281+00	50	0	4.96	0.00	13.60	24.54	977.75	-953.21
281+50	50	0	2.85	0.00	7.23	24.54	984.98	-960.44
281+52	2	0	3.94	0.00	0.25	24.54	985.23	-960.70
		Column totals		24.54	985.23			

PROJECT ID 1517-75-72
STAGE 1B- USH 10 EB/STH 441 NB (EB)

Station	Distance	Area (SF)		Incremental Volume (CY) (Unadjusted)		Cumulative Volume (CY)		Mass Ordinate
		Cut	Fill	Cut	Fill	Cut	Fill	
273+75	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00
274+00	25	5.13	1.57	2.38	0.73	2.38	0.73	1.65
274+50	50	8.03	0.67	12.19	2.07	14.56	2.80	11.76
275+00	50	7.89	1.22	14.74	1.75	29.30	4.55	24.75
275+02	2	92.81	1.24	3.73	0.09	33.03	4.64	28.39
275+50	48	86.10	0.65	159.03	1.68	192.06	6.32	185.74
276+00	50	91.85	0.06	164.77	0.66	356.83	6.98	349.85
276+50	50	90.61	0.08	168.94	0.13	525.77	7.11	518.67
277+00	50	83.34	0.66	161.06	0.69	686.84	7.79	679.05
277+50	50	76.94	0.97	148.41	1.51	835.25	9.30	825.94
277+62	12	135.33	0.99	47.17	0.44	882.42	9.74	872.68
278+00	38	132.18	2.66	188.25	2.57	1,070.67	12.31	1,058.36
278+50	50	118.16	10.37	231.80	12.06	1,302.46	24.37	1,278.09
279+00	50	68.67	13.78	172.99	22.36	1,475.45	46.73	1,428.72
279+50	50	45.66	24.49	105.86	35.44	1,581.31	82.17	1,499.15
280+00	50	28.54	24.23	68.70	45.11	1,650.02	127.28	1,522.74
280+50	50	17.50	44.77	42.63	63.89	1,692.65	191.17	1,501.48
281+00	50	6.60	63.46	22.31	100.21	1,714.96	291.38	1,423.58
281+50	50	0.36	93.92	6.44	145.72	1,721.41	437.10	1,284.30
282+00	50	0.00	120.03	0.33	198.10	1,721.74	635.21	1,086.53
282+50	50	0.00	139.47	0.00	240.28	1,721.74	875.48	846.26
283+00	50	0.00	145.58	0.00	263.94	1,721.74	1,139.42	582.32
283+24	24	0.00	145.16	0.00	129.22	1,721.74	1,268.64	453.10
283+50	26	0.00	157.58	0.00	145.76	1,721.74	1,414.40	307.34
283+84	34	0.00	169.64	0.00	206.03	1,721.74	1,620.43	101.31
284+00	16	0.00	173.34	0.00	101.62	1,721.74	1,722.05	-0.31
284+14	14	0.00	178.41	0.00	91.19	1,721.74	1,813.25	-91.51
284+50	36	1.24	201.18	0.83	253.06	1,722.57	2,066.31	-343.74
284+59	9	2.89	214.10	0.69	69.21	1,723.25	2,135.52	-412.26
284+64	5	4.00	222.49	0.64	40.43	1,723.89	2,175.94	-452.05
285+00	36	19.95	225.73	15.97	298.81	1,739.86	2,474.76	-734.90
285+50	50	50.78	260.43	65.49	450.15	1,805.35	2,924.91	-1,119.56
286+00	50	77.19	258.15	118.49	480.17	1,923.84	3,405.07	-1,481.23
286+50	50	102.28	252.54	166.18	472.86	2,090.02	3,877.93	-1,787.92
287+00	50	126.31	239.39	211.66	455.49	2,301.67	4,333.42	-2,031.75
287+50	50	150.54	221.75	256.34	426.98	2,558.02	4,760.41	-2,202.39
288+00	50	173.43	128.13	299.97	323.96	2,857.99	5,084.37	-2,226.38
288+13	13	183.40	158.62	85.90	69.03	2,943.89	5,153.40	-2,209.51
		Column totals		2,943.89	5,153.40			

PROJECT ID 1517-75-72
STAGE 2A - USH 10 WB/STH 441 SB (WB)
STA 222WB+32 TO STA 228WB+00

Station	Distance	Area (SF)				Incremental Volume (CY) (Unadjusted)				Cumulative Volume (CY)				Mass Ordinate
		Cut	Fill Lift 1	Fill Lift 2	Fill Lift 3	Cut	Fill Lift 1	Fill Lift 2	Fill Lift 3	Cut	Fill Lift 1	Fill Lift 2	Fill Lift 3	
222-32	0	150.17	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
222-50	18	144.91	0.00	0.00	0.00	98.36	0.00	0.00	0.00	98.36	0.00	0.00	0.00	98.36
223-00	50	130.53	0.00	0.00	0.00	255.04	0.00	0.00	0.00	353.40	0.00	0.00	0.00	353.40
223-50	50	104.19	0.00	0.00	0.00	217.33	0.00	0.00	0.00	570.73	0.00	0.00	0.00	570.73
224-00	50	60.77	0.02	0.00	0.00	152.74	0.02	0.00	0.00	723.47	0.02	0.00	0.00	723.45
224-50	50	6.20	13.84	0.00	0.00	62.01	12.83	0.00	0.00	785.48	12.85	0.00	0.00	772.63
225-00	50	0.02	88.54	0.00	0.00	5.76	94.80	0.00	0.00	791.24	107.65	0.00	0.00	683.59
225-50	50	0.02	180.31	0.00	0.00	0.04	248.94	0.00	0.00	791.28	356.58	0.00	0.00	434.69
226-00	50	0.00	266.64	0.00	0.00	0.02	413.84	0.00	0.00	791.30	770.43	0.00	0.00	20.87
226-50	50	0.01	346.86	0.00	0.00	0.01	568.06	0.00	0.00	791.30	1,338.48	0.00	0.00	-547.18
227-00	50	0.00	411.15	0.00	0.00	0.01	701.86	0.00	0.00	791.31	2,040.34	0.00	0.00	-1,249.03
227-50	50	0.00	475.51	0.00	0.00	0.00	820.98	0.00	0.00	791.31	2,861.32	0.00	0.00	-2,070.01
228-00	50	0.00	534.91	0.00	0.00	0.00	753.73	0.00	0.00	791.32	3,615.05	0.00	0.00	-2,823.74
SUBTOTAL						791.32	3,615.05	0.00	0.00					

PROJECT ID 1517-75-72
STAGE 2A - USH 10 WB/STH 441 SB (WB)
STA 228WB+00 TO STA 238WB+50 (STRIP DRAINS AREA 8)

Station	Distance	Area (SF)				Incremental Volume (CY) (Unadjusted)				Cumulative Volume (CY)				Mass Ordinate
		Cut	Fill Lift 1	Fill Lift 2	Fill Lift 3	Cut	Fill Lift 1	Fill Lift 2	Fill Lift 3	Cut	Fill Lift 1	Fill Lift 2	Fill Lift 3	
228-00	0	13.40	571.55	0.00	0.00	13.40	571.55	0.00	0.00	13.40	571.55	0.00	0.00	-558.15
228-50	50	14.93	596.92	0.00	0.00	26.23	1,081.92	0.00	0.00	39.63	1,653.47	0.00	0.00	-1,613.84
229-00	50	15.43	665.43	0.00	0.00	28.11	1,168.84	0.00	0.00	67.74	2,822.31	0.00	0.00	-2,754.57
229-50	50	14.52	759.39	0.00	0.00	27.73	1,319.28	0.00	0.00	95.47	4,141.59	0.00	0.00	-4,046.11
230-00	50	15.87	832.62	0.00	0.00	28.14	1,474.08	0.00	0.00	123.61	5,615.67	0.00	0.00	-5,492.06
230-50	50	16.64	894.42	0.00	0.00	30.10	1,599.11	0.00	0.00	153.71	7,214.78	0.00	0.00	-7,061.07
231-00	50	17.03	950.62	0.00	0.00	31.18	1,708.37	0.00	0.00	184.89	8,923.15	0.00	0.00	-8,738.26
231-50	50	16.26	1001.64	0.00	0.00	30.82	1,807.65	0.00	0.00	215.71	10,730.80	0.00	0.00	-10,515.09
232-00	50	14.99	1047.92	0.00	0.00	28.94	1,897.74	0.00	0.00	244.65	12,628.54	0.00	0.00	-12,383.89
232-50	50	15.02	1083.92	0.00	0.00	27.79	1,973.93	0.00	0.00	272.44	14,602.47	0.00	0.00	-14,330.03
233-00	50	14.56	1085.21	0.00	0.00	27.39	2,008.45	0.00	0.00	299.83	16,610.92	0.00	0.00	-16,311.09
233-50	50	14.10	1168.42	0.00	0.00	26.54	2,086.69	0.00	0.00	326.36	18,697.61	0.00	0.00	-18,371.25
234-00	50	17.81	1184.10	0.00	0.00	29.55	2,178.26	0.00	0.00	355.91	20,875.87	0.00	0.00	-20,519.96
234-50	50	26.89	1103.35	0.00	0.00	41.39	2,118.01	0.00	0.00	397.30	22,993.88	0.00	0.00	-22,596.59
235-00	50	7.17	1031.85	0.00	0.00	31.54	1,977.04	0.00	0.00	428.84	24,970.92	0.00	0.00	-24,542.09
235-50	50	15.81	832.77	0.00	0.00	21.28	1,726.50	0.00	0.00	450.11	26,697.42	0.00	0.00	-26,247.31
236-00	50	12.91	735.47	0.00	0.00	26.59	1,452.07	0.00	0.00	476.71	28,149.49	0.00	0.00	-27,672.79
236-50	50	64.89	685.43	0.00	0.00	72.04	1,315.65	0.00	0.00	548.74	29,465.14	0.00	0.00	-28,916.40
237-00	50	17.83	721.15	0.00	0.00	76.59	1,302.39	0.00	0.00	625.34	30,767.53	0.00	0.00	-30,142.20
237-50	50	0.00	831.60	0.00	0.00	16.51	1,437.73	0.00	0.00	641.84	32,205.26	0.00	0.00	-31,563.42
238-00	50	0.00	937.27	49.33	0.00	0.00	1,637.84	45.68	0.00	641.84	33,843.11	45.68	0.00	-33,246.94
238-50	50	9.64	1172.41	61.71	0.00	8.93	1,953.41	102.81	0.00	650.77	35,796.52	148.49	0.00	-35,294.23
SUBTOTAL						650.77	35,796.52	148.49	0.00					

PROJECT ID 1517-75-72
STAGE 2A - USH 10 WB/STH 441 SB (WB)
STA 238WB+50 TO STA 240WB+20

Station	Distance	Area (SF)				Incremental Volume (CY) (Unadjusted)				Cumulative Volume (CY)				Mass Ordinate
		Cut	Fill Lift 1	Fill Lift 2	Fill Lift 3	Cut	Fill Lift 1	Fill Lift 2	Fill Lift 3	Cut	Fill Lift 1	Fill Lift 2	Fill Lift 3	
238+50	0	9.64	1172.41	61.71	0.00	9.64	1,172.41	61.71	0.00	9.64	1,172.41	61.71	0.00	-1,224.48
239+00	50	0.00	1408.46	136.50	0.00	8.93	2,389.70	202.04	0.00	18.57	3,562.12	263.74	0.00	-3,807.29
239+50	50	0.07	1642.36	182.48	0.00	0.07	1,642.36	182.48	0.00	18.64	5,204.47	446.23	0.00	-5,632.06
240+00	50	0.00	1272.60	141.40	0.00	0.06	2,699.03	299.89	0.00	18.70	7,903.51	746.12	0.00	-8,630.93
240+20	20	0.00	26.99	3.00	0.00	0.00	479.21	53.25	0.00	18.70	8,382.72	799.37	0.00	-9,163.38
SUBTOTAL						18.70	8,382.72	799.37	0.00					

PROJECT ID 1517-75-72
STAGE 2A - USH 10 WB/STH 441 SB (WB)
STA 242WB+50 TO STA 256WB+00

Station	Distance	Area (SF)				Incremental Volume (CY) (Unadjusted)				Cumulative Volume (CY)				Mass Ordinate
		Cut	Fill Lift 1	Fill Lift 2	Fill Lift 3	Cut	Fill Lift 1	Fill Lift 2	Fill Lift 3	Cut	Fill Lift 1	Fill Lift 2	Fill Lift 3	
242+50	0	295.91	0.06	0.00	0.00	295.91	0.06	0.00	0.00	295.91	0.06	0.00	0.00	295.85
243+00	50	2282.75	0.25	0.00	0.00	2,387.63	0.29	0.00	0.00	2,683.56	0.35	0.00	0.00	2,683.21
243+50	50	3691.48	57.43	0.00	0.00	5,531.69	53.41	0.00	0.00	8,215.25	53.75	0.00	0.00	8,161.50
244+00	50	2774.60	1837.94	679.04	302.97	5,987.11	1,754.97	628.74	280.53	14,202.36	1,808.73	628.74	280.53	11,484.36
244+50	50	2966.80	1838.63	685.51	333.82	5,316.11	3,404.23	1,263.47	589.62	19,518.47	5,212.96	1,892.21	870.15	11,543.15
245+00	50	2746.81	1759.32	694.09	373.07	5,290.39	3,331.44	1,277.41	654.53	24,808.85	8,544.39	3,169.62	1,524.68	11,570.16
245+50	50	2947.07	1480.86	681.28	409.62	5,272.12	3,000.17	1,273.49	724.71	30,080.97	11,544.56	4,443.11	2,249.39	11,843.91
246+00	50	2571.61	1380.24	599.40	435.92	5,109.89	2,649.17	1,185.81	782.91	35,190.86	14,193.73	5,628.93	3,032.30	12,335.91
246+50	50	2613.80	919.60	476.35	449.09	4,801.31	2,129.48	996.06	819.45	39,992.17	16,323.21	6,624.99	3,851.75	13,192.22
247+00	50	2201.77	465.68	363.60	457.65	4,458.86	1,282.67	777.73	839.57	44,451.02	17,605.88	7,402.72	4,691.32	14,751.10
247+50	50	2271.26	388.51	244.74	468.84	4,141.69	790.92	563.28	857.86	48,592.72	18,396.80	7,966.00	5,549.19	16,680.73
248+00	50	1931.27	136.87	251.36	471.61	3,891.23	486.46	459.35	870.79	52,483.94	18,883.26	8,425.35	6,419.97	18,755.36
248+50	50	2024.64	138.09	278.97	467.26	3,662.88	254.59	491.05	869.32	56,146.82	19,137.86	8,916.40	7,289.30	20,803.27
249+00	50	1656.55	135.30	340.32	456.20	3,408.51	253.14	573.42	855.06	59,555.33	19,390.99	9,489.81	8,144.35	22,530.17
249+50	50	1729.96	126.56	441.74	438.51	3,135.65	242.46	724.13	828.44	62,690.99	19,633.46	10,213.94	8,972.79	23,870.80
250+00	50	1355.32	104.21	561.34	414.13	2,856.74	213.68	928.78	789.48	65,547.72	19,847.13	11,142.72	9,762.27	24,795.60
250+50	50	1494.59	82.71	615.79	385.84	2,638.81	173.07	1,089.94	740.71	68,186.53	20,020.21	12,232.66	10,502.98	25,430.69
251+00	50	1291.38	53.32	524.09	345.24	2,579.60	125.95	1,055.44	676.93	70,766.13	20,146.16	13,288.10	11,179.91	26,151.96
251+50	50	1303.28	22.57	391.88	301.66	2,587.64	70.27	848.12	598.98	73,353.77	20,216.43	14,136.22	11,778.89	27,222.23
252+00	50	1274.57	12.89	284.07	251.48	2,572.08	32.83	625.88	512.17	75,925.86	20,249.26	14,762.10	12,291.06	28,623.44
252+50	50	1512.28	17.40	200.58	195.26	2,580.42	28.05	448.75	413.65	78,506.28	20,277.31	15,210.85	12,704.70	30,313.41
253+00	50	1298.16	12.26	0.00	0.00	2,602.26	27.46	185.72	180.80	81,108.53	20,304.77	15,396.57	12,885.50	32,521.69
253+50	50	1501.82	11.25	0.00	0.00	2,592.57	21.77	0.00	0.00	83,701.10	20,326.54	15,396.57	12,885.50	35,092.49
254+00	50	1215.87	10.15	0.00	0.00	2,516.37	19.81	0.00	0.00	86,217.48	20,346.36	15,396.57	12,885.50	37,589.05
254+50	50	1392.38	2.19	0.00	0.00	2,415.04	11.43	0.00	0.00	88,632.52	20,357.78	15,396.57	12,885.50	39,992.66
255+00	50	1095.93	1.28	0.00	0.00	2,303.99	3.21	0.00	0.00	90,936.51	20,360.99	15,396.57	12,885.50	42,293.44
255+50	50	1143.80	0.06	0.00	0.00	2,073.82	1.24	0.00	0.00	93,010.33	20,362.24	15,396.57	12,885.50	44,366.02
256+00	50	722.68	34.00	1.79	0.00	1,728.22	31.54	1.66	0.00	94,738.56	20,393.77	15,398.23	12,885.50	46,061.05
SUBTOTAL						94,738.56	20,393.77	15,398.23	12,885.50					

PROJECT ID 1517-75-72
STAGE 2A - USH 10 WB/STH 441 SB (WB)
STA 256WB+00 TO STA 260WB+00 (STRIP DRAINS AREA 9)

Station	Distance	Area (SF)				Incremental Volume (CY) (Unadjusted)				Cumulative Volume (CY)				Mass Ordinate
		Cut	Fill Lift 1	Fill Lift 2	Fill Lift 3	Cut	Fill Lift 1	Fill Lift 2	Fill Lift 3	Cut	Fill Lift 1	Fill Lift 2	Fill Lift 3	
256+00	0	1493.63	34.00	1.79	0.00	1,493.63	34.00	1.79	0.00	1,493.63	34.00	1.79	0.00	1,457.84
256+50	50	1261.69	182.78	121.85	0.00	2,551.22	200.72	114.48	0.00	4,044.85	234.72	116.27	0.00	3,693.86
257+00	50	1109.86	329.74	219.82	0.00	2,195.88	474.55	316.37	0.00	6,240.73	709.27	432.64	0.00	5,098.82
257+50	50	944.86	434.16	289.44	0.00	1,902.52	707.31	471.54	0.00	8,143.25	1,416.58	904.18	0.00	5,822.49
258+00	50	708.63	498.00	332.00	0.00	1,531.01	863.11	575.41	0.00	9,674.26	2,279.69	1,479.59	0.00	5,914.98
258+50	50	523.44	492.10	328.06	0.00	1,140.81	916.76	611.17	0.00	10,815.07	3,196.45	2,090.76	0.00	5,527.86
259+00	50	412.78	422.48	281.65	0.00	866.87	846.83	564.55	0.00	11,681.94	4,043.28	2,655.31	0.00	4,983.35
259+50	50	140.93	367.45	244.96	0.00	512.69	731.41	487.61	0.00	12,194.63	4,774.69	3,142.92	0.00	4,277.03
260+00	50	505.47	321.73	214.48	0.00	598.52	638.12	425.41	0.00	12,793.15	5,412.81	3,568.33	0.00	3,812.01
SUBTOTAL						12,793.15	5,412.81	3,568.33	0.00					

PROJECT ID 1517-75-72
STAGE 2A - USH 10 WB/STH 441 SB (WB)
STA 260WB+00 TO STA 267WB+50

Station	Distance	Area (SF)				Incremental Volume (CY) (Unadjusted)				Cumulative Volume (CY)				Mass Ordinate
		Cut	Fill Lift 1	Fill Lift 2	Fill Lift 3	Cut	Fill Lift 1	Fill Lift 2	Fill Lift 3	Cut	Fill Lift 1	Fill Lift 2	Fill Lift 3	
260+00	0	346.82	321.73	214.48	0.00	346.82	321.73	214.48	0.00	346.82	321.73	214.48	0.00	-189.39
260+50	50	354.58	473.08	0.00	0.00	649.44	735.93	198.60	0.00	996.26	1,057.66	413.08	0.00	-474.47
261+00	50	317.01	381.48	0.00	0.00	621.84	791.26	0.00	0.00	1,618.11	1,848.92	413.08	0.00	-643.89
261+50	50	237.01	295.04	0.00	0.00	512.98	626.41	0.00	0.00	2,131.09	2,475.32	413.08	0.00	-757.32
262+00	50	154.26	205.13	0.00	0.00	362.29	463.12	0.00	0.00	2,493.38	2,938.44	413.08	0.00	-858.15
262+50	50	79.07	131.66	0.00	0.00	216.05	311.84	0.00	0.00	2,709.42	3,250.29	413.08	0.00	-953.95
263+00	50	24.29	75.76	0.00	0.00	95.70	192.06	0.00	0.00	2,805.13	3,442.34	413.08	0.00	-1,050.30
263+50	50	8.39	34.59	0.00	0.00	30.26	102.18	0.00	0.00	2,835.38	3,544.52	413.08	0.00	-1,122.21
264+00	50	1.47	11.32	0.00	0.00	9.13	42.51	0.00	0.00	2,844.51	3,587.03	413.08	0.00	-1,155.59
264+50	50	14.60	1.39	0.00	0.00	14.88	11.77	0.00	0.00	2,859.39	3,598.80	413.08	0.00	-1,152.48
265+00	50	52.31	0.00	0.00	0.00	61.95	1.29	0.00	0.00	2,921.35	3,600.08	413.08	0.00	-1,091.82
265+50	50	83.38	0.00	0.00	0.00	125.64	0.00	0.00	0.00	3,046.99	3,600.08	413.08	0.00	-966.18
266+00	50	117.16	0.00	0.00	0.00	185.69	0.00	0.00	0.00	3,232.67	3,600.08	413.08	0.00	-780.49
266+50	50	102.65	0.00	0.00	0.00	203.53	0.00	0.00	0.00	3,436.20	3,600.08	413.08	0.00	-576.96
267+00	50	113.97	0.00	0.00	0.00	200.57	0.00	0.00	0.00	3,636.77	3,600.08	413.08	0.00	-376.39
267+50	50	129.36	0.00	0.00	0.00	225.24	0.00	0.00	0.00	3,862.01	3,600.08	413.08	0.00	-151.15
SUBTOTAL						3,862.01	3,600.08	413.08	0.00					

PROJECT ID 1517-75-72
STAGE 2A - USH 10 WB/STH 441 SB (WB)
STA 279WB+51 TO STA 288WB+32

Station	Distance	Area (SF)				Incremental Volume (CY) (Unadjusted)				Cumulative Volume (CY)				Mass Ordinate
		Cut	Fill Lift 1	Fill Lift 2	Fill Lift 3	Cut	Fill Lift 1	Fill Lift 2	Fill Lift 3	Cut	Fill Lift 1	Fill Lift 2	Fill Lift 3	
279+51	0	27.02	19.83	0.00	0.00	27.02	19.83	0.00	0.00	27.02	19.83	0.00	0.00	7.19
280+00	49	12.02	24.08	0.00	0.00	35.55	39.99	0.00	0.00	62.57	59.82	0.00	0.00	2.76
280+50	50	1.75	33.04	0.00	0.00	12.75	52.89	0.00	0.00	75.32	112.71	0.00	0.00	-37.38
281+00	50	0.00	56.94	0.00	0.00	1.62	83.31	0.00	0.00	76.94	196.02	0.00	0.00	-119.08
281+50	50	0.04	85.52	0.00	0.00	0.04	131.91	0.00	0.00	76.98	327.93	0.00	0.00	-250.95
282+00	50	0.00	109.22	0.00	0.00	0.04	180.31	0.00	0.00	77.02	508.24	0.00	0.00	-431.23
282+50	50	0.00	136.32	0.00	0.00	0.00	227.35	0.00	0.00	77.02	735.59	0.00	0.00	-658.58
283+00	50	0.05	134.55	0.00	0.00	0.05	250.81	0.00	0.00	77.06	986.40	0.00	0.00	-909.34
283+50	50	0.07	139.79	0.00	0.00	0.11	254.02	0.00	0.00	77.17	1,240.42	0.00	0.00	-1,163.24
284+00	50	0.06	121.54	0.00	0.00	0.12	241.97	0.00	0.00	77.29	1,482.39	0.00	0.00	-1,405.10
284+50	50	0.00	103.52	0.00	0.00	0.06	208.39	0.00	0.00	77.35	1,690.78	0.00	0.00	-1,613.43
285+00	50	2.73	83.10	0.00	0.00	2.53	172.80	0.00	0.00	79.88	1,863.58	0.00	0.00	-1,783.70
285+50	50	21.96	81.53	0.00	0.00	22.86	152.44	0.00	0.00	102.74	2,016.01	0.00	0.00	-1,913.27
286+00	50	49.58	75.94	0.00	0.00	66.24	145.81	0.00	0.00	168.98	2,161.82	0.00	0.00	-1,992.84
286+50	50	73.23	122.10	0.00	0.00	113.71	183.37	0.00	0.00	282.69	2,345.19	0.00	0.00	-2,062.49
287+00	50	96.67	111.94	0.00	0.00	157.31	216.70	0.00	0.00	440.01	2,561.89	0.00	0.00	-2,121.88
287+50	50	123.07	97.31	0.00	0.00	203.46	193.75	0.00	0.00	643.47	2,755.64	0.00	0.00	-2,112.17
288+00	50	154.27	76.80	0.00	0.00	256.80	161.21	0.00	0.00	900.27	2,916.85	0.00	0.00	-2,016.59
288+32	32	155.82	175.63	0.00	0.00	183.76	149.59	0.00	0.00	1,084.02	3,066.44	0.00	0.00	-1,982.42
SUBTOTAL						1,084.02	3,066.44	0.00	0.00					

Cummulative Total	113,938.53	80,267.40	20,327.50	12,885.50

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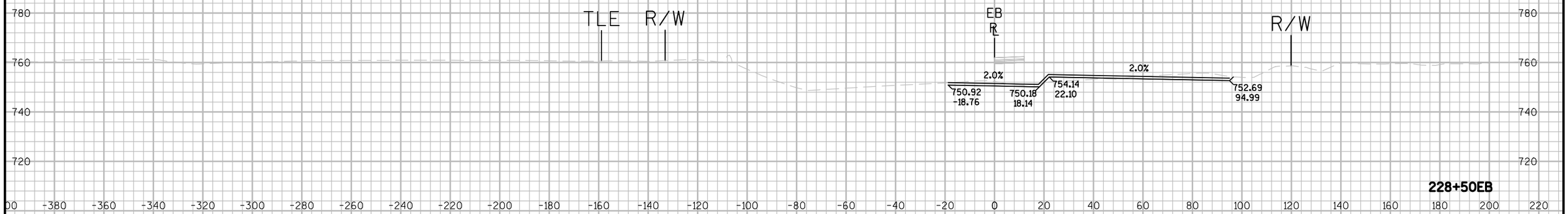
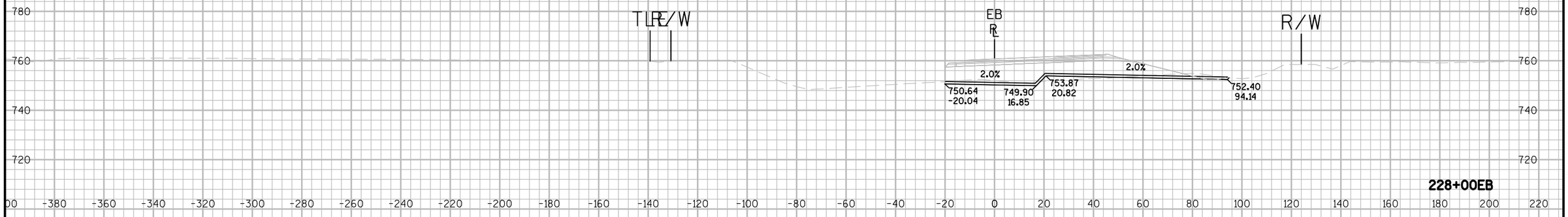
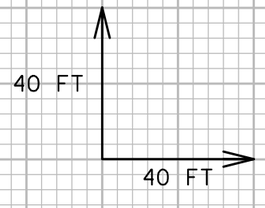
PROJECT NO:1517-75-72	HWY: STH 441/USH 10	COUNTY: WINNEBAGO	EARTHWORK TABLES	SHEET 546	E

FILE NAME : S:\PDS\C3D\WIS441\15177570_72_77_85\SHEETSPLAN\1517-75-72\090100-EW\NE-15177572-090101-EW.DWG
LAYOUT NAME - 090113-EW
PLOT DATE : 2/8/2017 8:03 AM PLOT BY : VICKMAN, GARRETT T PLOT NAME : PLOT SCALE : 1 IN:10 FT







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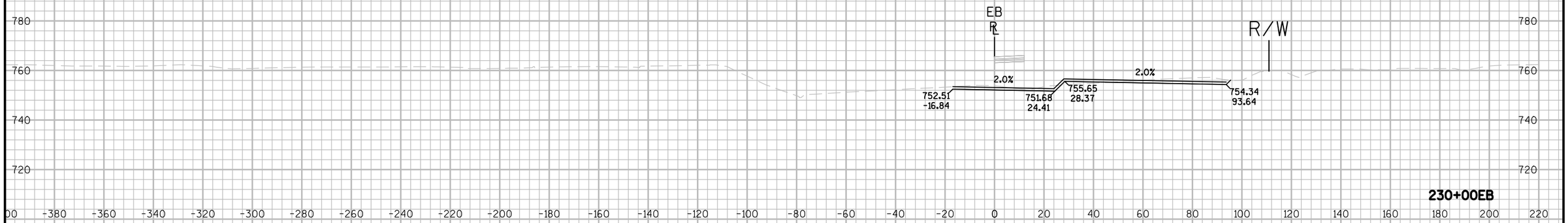
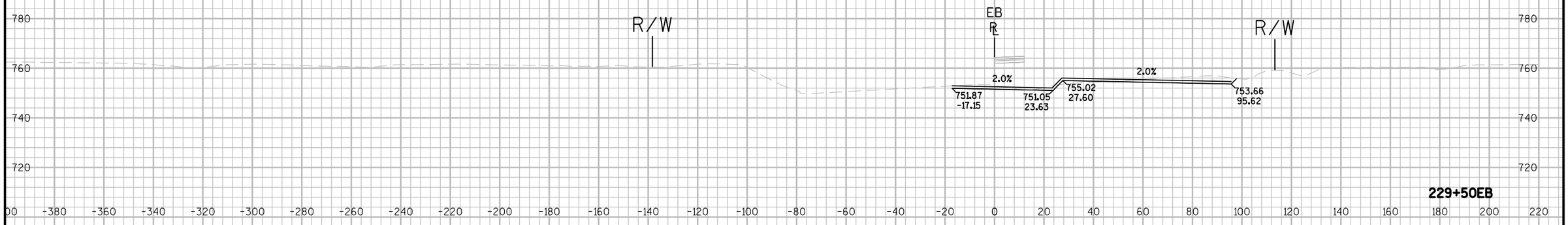
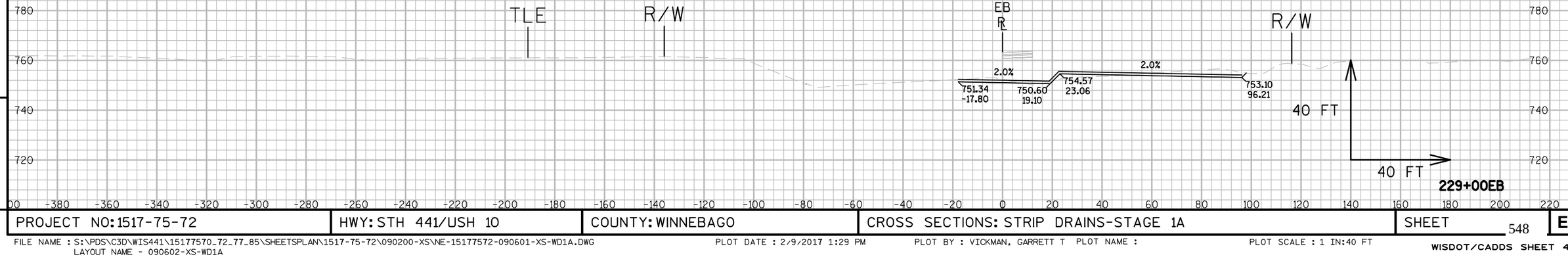
PROJECT NO: 1517-75-72	HWY: STH 441/USH 10	COUNTY: WINNEBAGO	CROSS SECTIONS: STRIP DRAINS-STAGE 1A	SHEET 547	E

FILE NAME : S:\PDS\C3D\WIS441\15177570_72_77_85\SHEETSPLAN\1517-75-72\090200-XS\NE-15177572-090601-XS-WD1A.DWG
LAYOUT NAME - 090601-XS-WD1A
PLOT DATE : 2/9/2017 1:29 PM
PLOT BY : VICKMAN, GARRETT T PLOT NAME :
PLOT SCALE : 1 IN:40 FT







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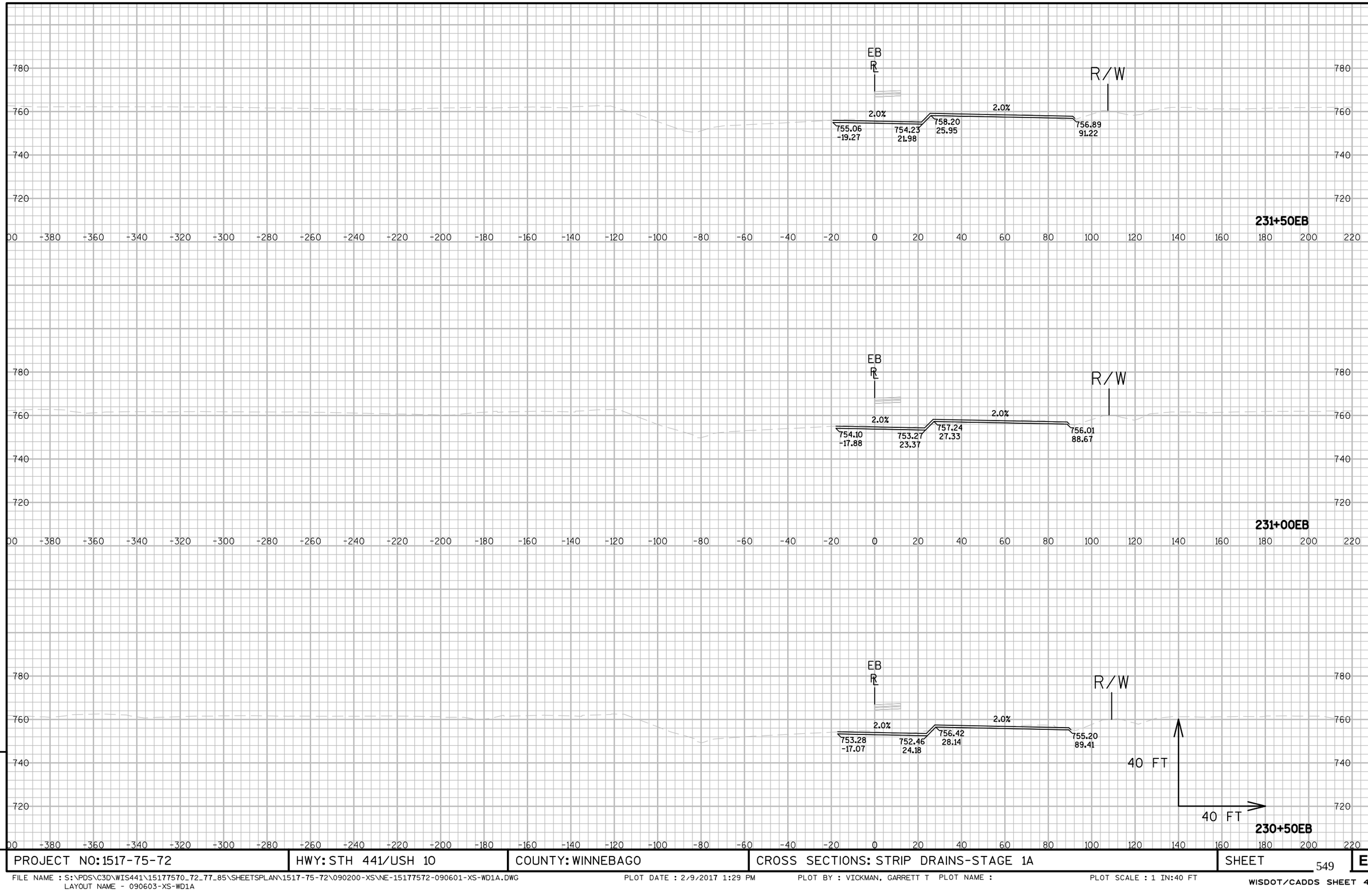
PROJECT NO: 1517-75-72	HWY: STH 441/USH 10	COUNTY: WINNEBAGO	CROSS SECTIONS: STRIP DRAINS-STAGE 1A	SHEET 548	E

FILE NAME : S:\PDS\C3D\WIS441\15177570_72_77_85\SHEETSPLAN\1517-75-72\090200-XS\NE-15177572-090601-XS-WD1A.DWG
LAYOUT NAME - 090602-XS-WD1A
PLOT DATE : 2/9/2017 1:29 PM
PLOT BY : VICKMAN, GARRETT T PLOT NAME :
PLOT SCALE : 1 IN:40 FT



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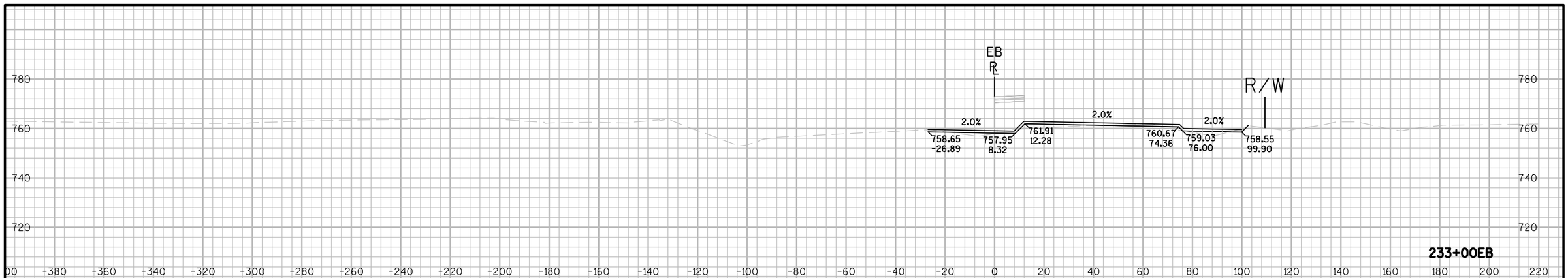
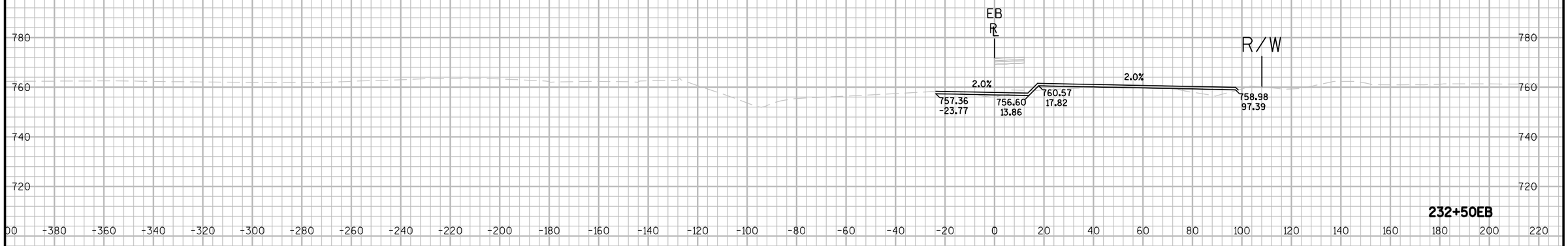
PROJECT NO: 1517-75-72	HWY: STH 441/USH 10	COUNTY: WINNEBAGO	CROSS SECTIONS: STRIP DRAINS-STAGE 1A	SHEET 549	E

FILE NAME : S:\PDS\C3D\WIS441\15177570_72_77_85\SHEETSPLAN\1517-75-72\090200-XS\NE-15177572-090601-XS-WD1A.DWG
LAYOUT NAME - 090603-XS-WD1A

PLOT DATE : 2/9/2017 1:29 PM PLOT BY : VICKMAN, GARRETT T PLOT NAME : PLOT SCALE : 1 IN:40 FT

WISDOT/CADDS SHEET 49





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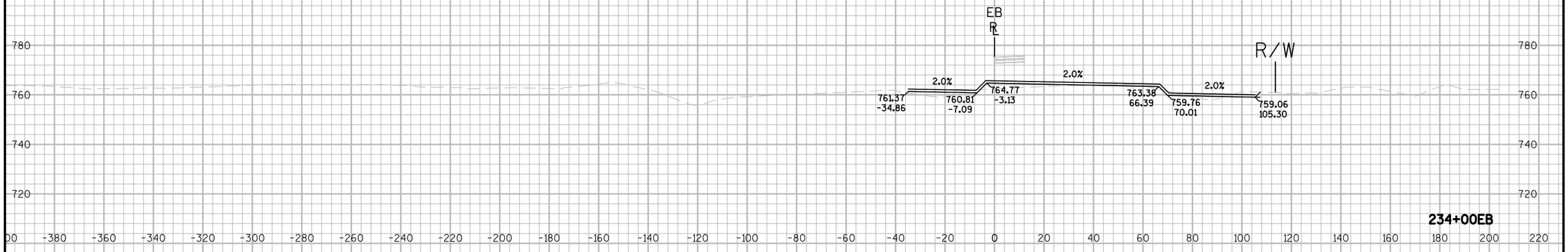
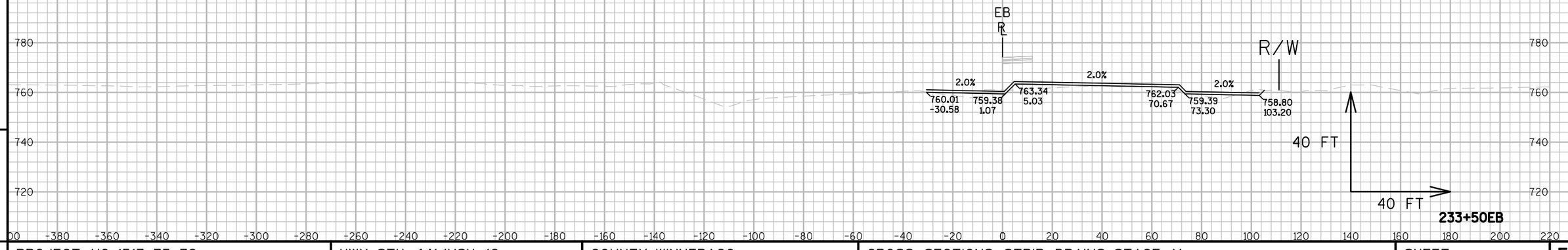
PROJECT NO: 1517-75-72	HWY: STH 441/USH 10	COUNTY: WINNEBAGO	CROSS SECTIONS: STRIP DRAINS-STAGE 1A	SHEET 550	E

FILE NAME : S:\PDS\C3D\WIS441\15177570_72_77_85\SHEETSPLAN\1517-75-72\090200-XS\NE-15177572-090601-XS-WD1A.DWG
LAYOUT NAME - 090604-XS-WD1A
PLOT DATE : 2/9/2017 1:30 PM
PLOT BY : VICKMAN, GARRETT T PLOT NAME :
PLOT SCALE : 1 IN:40 FT





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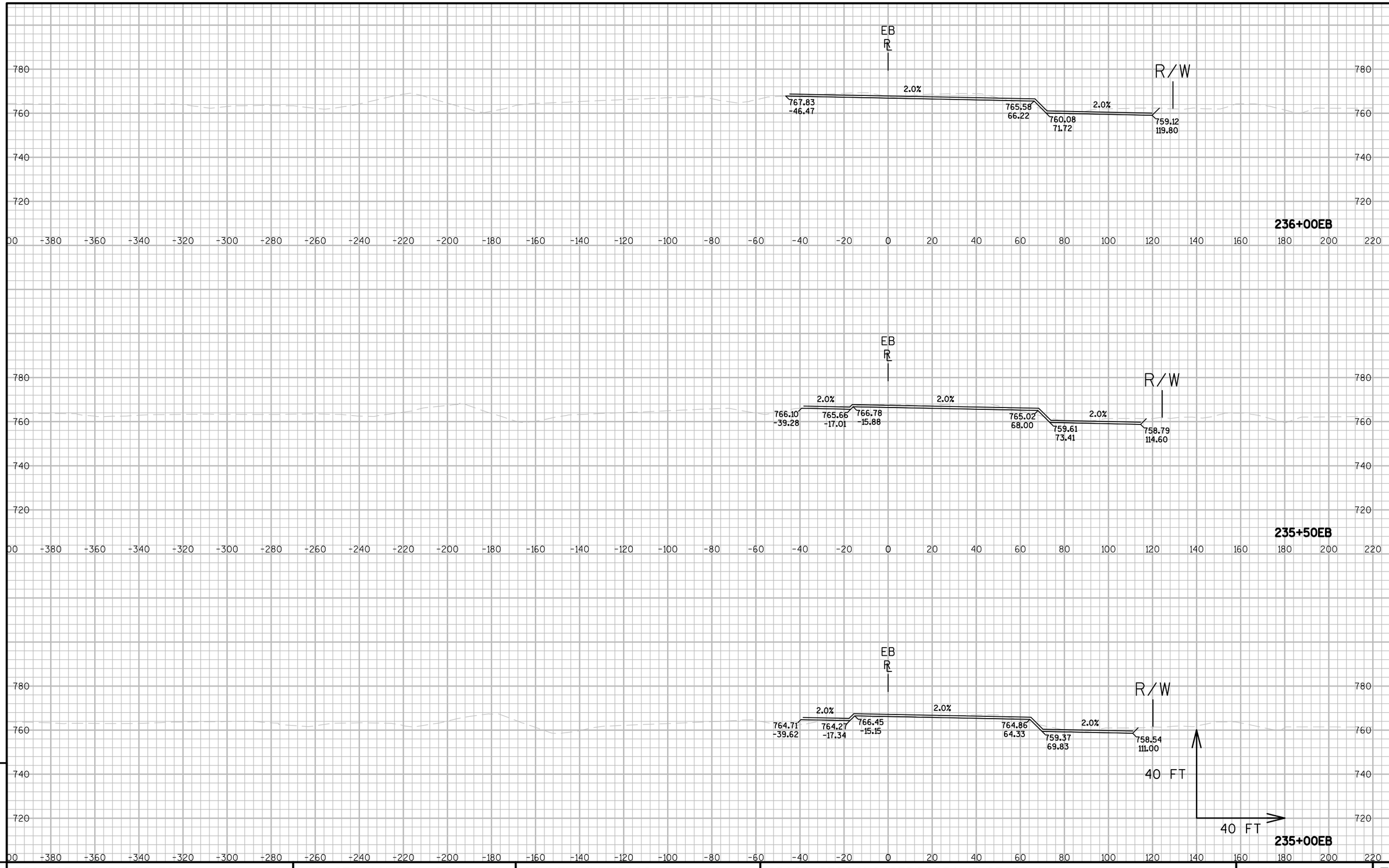
PROJECT NO: 1517-75-72	HWY: STH 441/USH 10	COUNTY: WINNEBAGO	CROSS SECTIONS: STRIP DRAINS-STAGE 1A	SHEET 551	E

FILE NAME : S:\PDS\C3D\WIS441\15177570_72_77_85\SHEETSPLAN\1517-75-72\090200-XS\NE-15177572-090601-XS-WD1A.DWG
LAYOUT NAME - 090605-XS-WD1A
PLOT DATE : 2/9/2017 1:30 PM
PLOT BY : VICKMAN, GARRETT T PLOT NAME :
PLOT SCALE : 1 IN:40 FT



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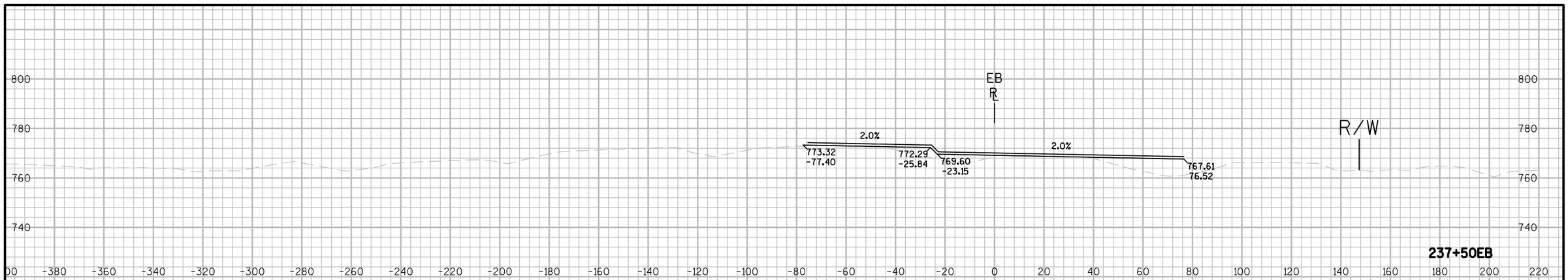
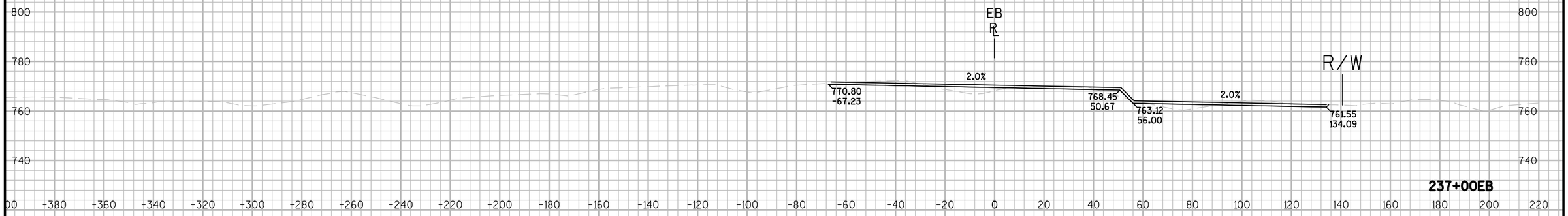
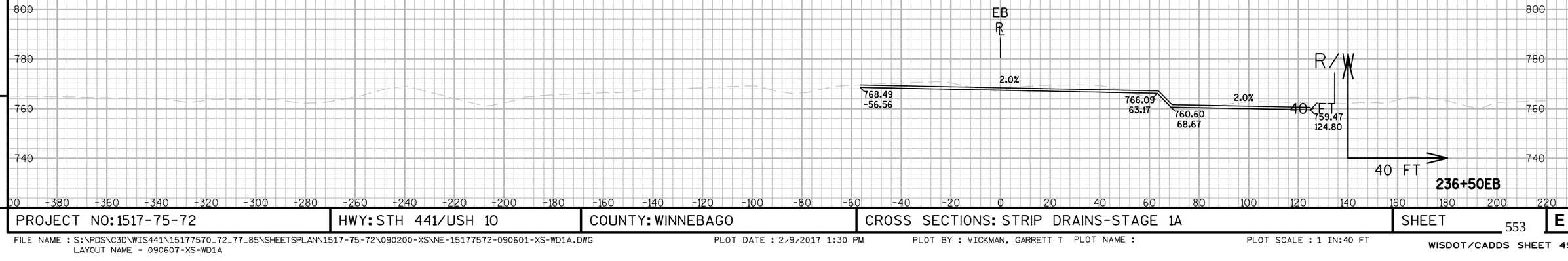
PROJECT NO: 1517-75-72	HWY: STH 441/USH 10	COUNTY: WINNEBAGO	CROSS SECTIONS: STRIP DRAINS-STAGE 1A	SHEET 552	E

FILE NAME : S:\PDS\C3D\WIS441\15177570_72_77_85\SHEETSPLAN\1517-75-72\090200-XS\NE-15177572-090601-XS-WD1A.DWG
LAYOUT NAME - 090606-XS-WD1A
PLOT DATE : 2/9/2017 1:30 PM
PLOT BY : VICKMAN, GARRETT T PLOT NAME :
PLOT SCALE : 1 IN:40 FT







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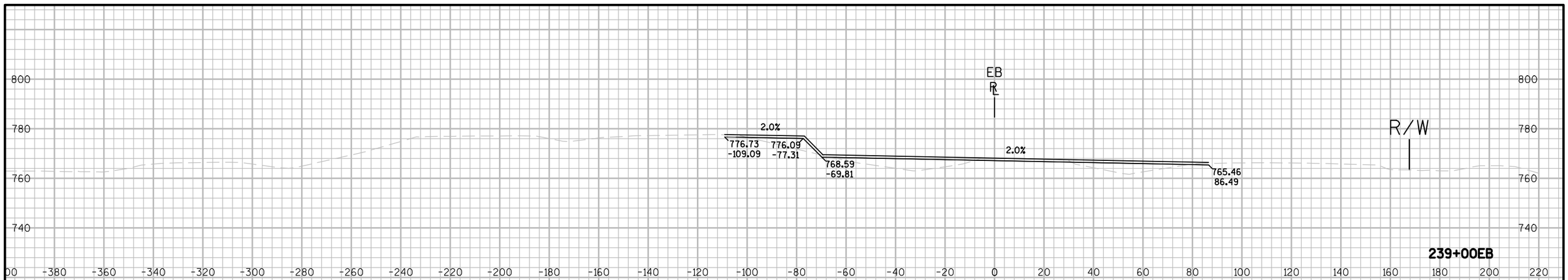
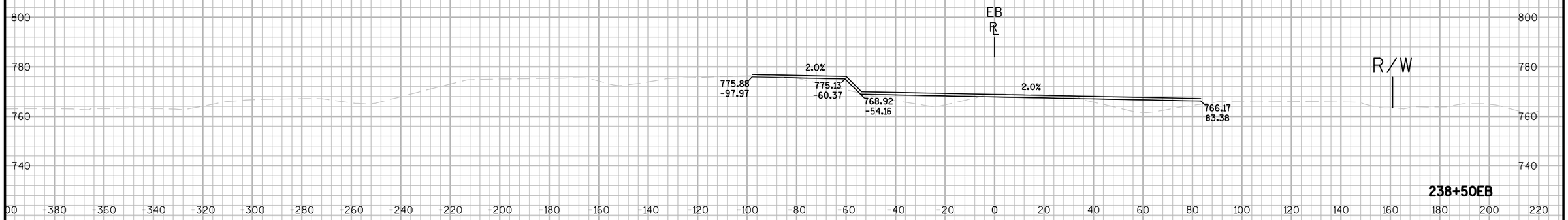
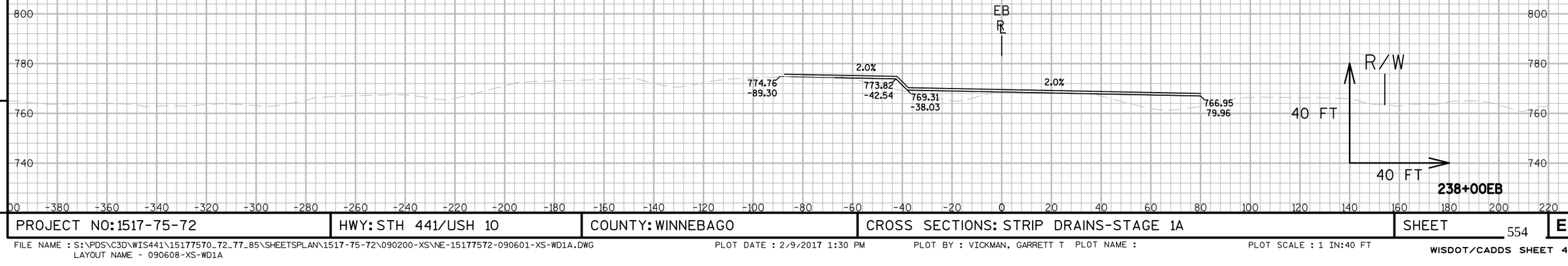
PROJECT NO: 1517-75-72	HWY: STH 441/USH 10	COUNTY: WINNEBAGO	CROSS SECTIONS: STRIP DRAINS-STAGE 1A	SHEET 553	E

FILE NAME : S:\PDS\C3D\WIS441\15177570_72_77_85\SHEETSPLAN\1517-75-72\090200-XS\NE-15177572-090601-XS-WD1A.DWG
LAYOUT NAME - 090607-XS-WD1A

PLOT DATE : 2/9/2017 1:30 PM PLOT BY : VICKMAN, GARRETT T PLOT NAME : PLOT SCALE : 1 IN:40 FT







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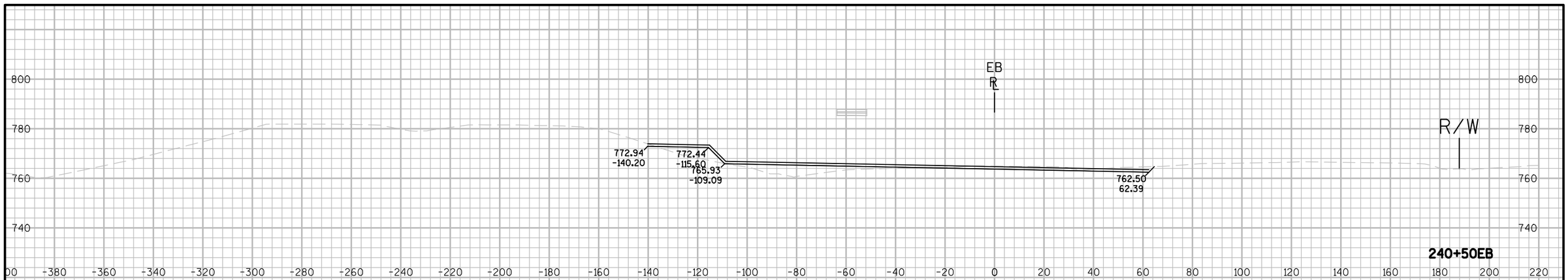
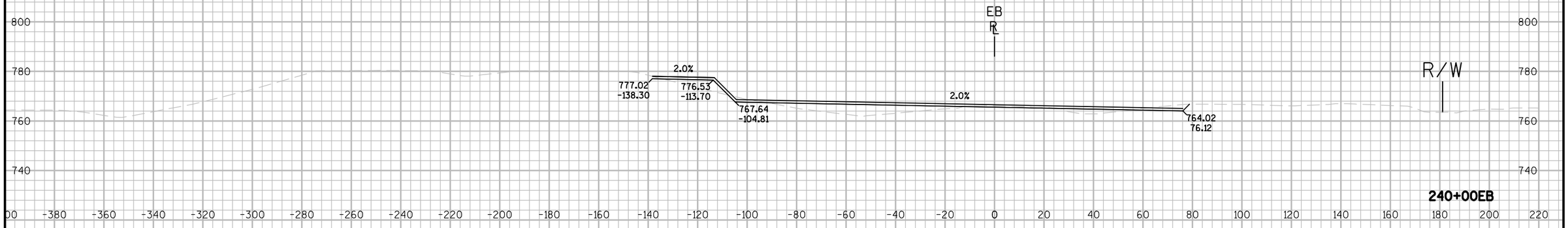
PROJECT NO: 1517-75-72	HWY: STH 441/USH 10	COUNTY: WINNEBAGO	CROSS SECTIONS: STRIP DRAINS-STAGE 1A	SHEET 554	E





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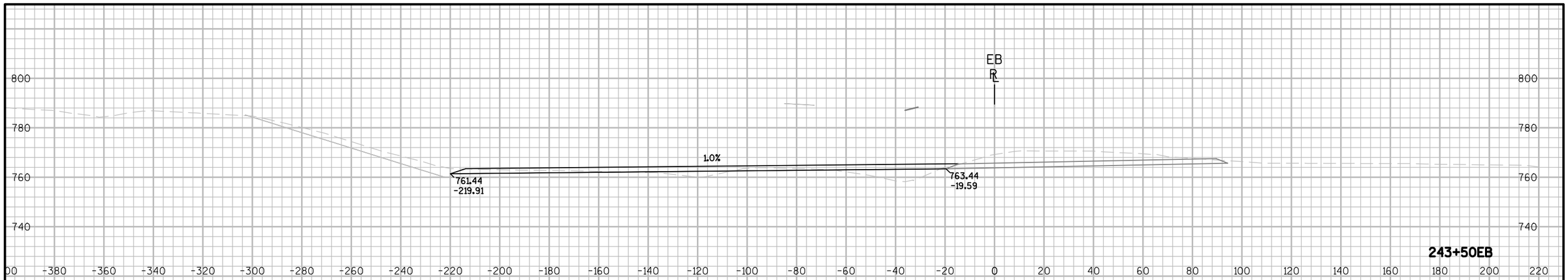
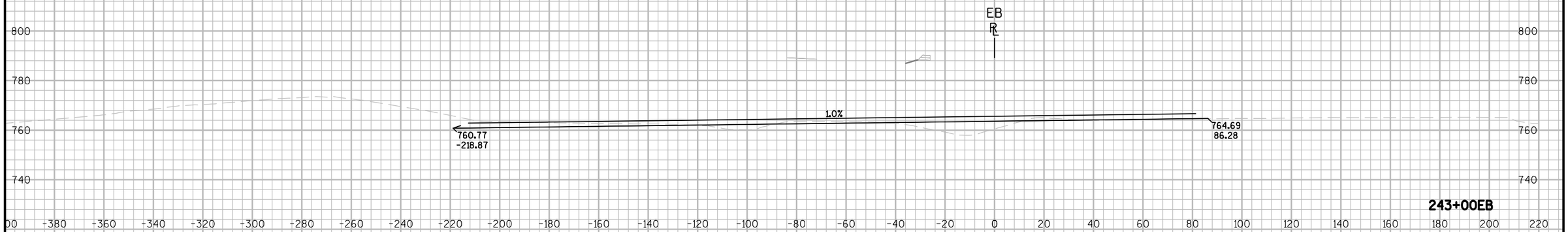
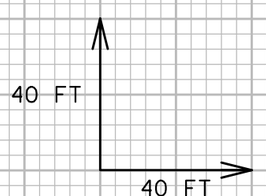
PROJECT NO: 1517-75-72	HWY: STH 441/USH 10	COUNTY: WINNEBAGO	CROSS SECTIONS: STRIP DRAINS-STAGE 1A	SHEET 555	E

FILE NAME : S:\PDS\C3D\WIS441\15177570_72_77_85\SHEETSPLAN\1517-75-72\090200-XS\NE-15177572-090601-XS-WD1A.DWG
LAYOUT NAME - 090609-XS-WD1A

PLOT DATE : 2/9/2017 1:30 PM PLOT BY : VICKMAN, GARRETT T PLOT NAME : PLOT SCALE : 1 IN:40 FT







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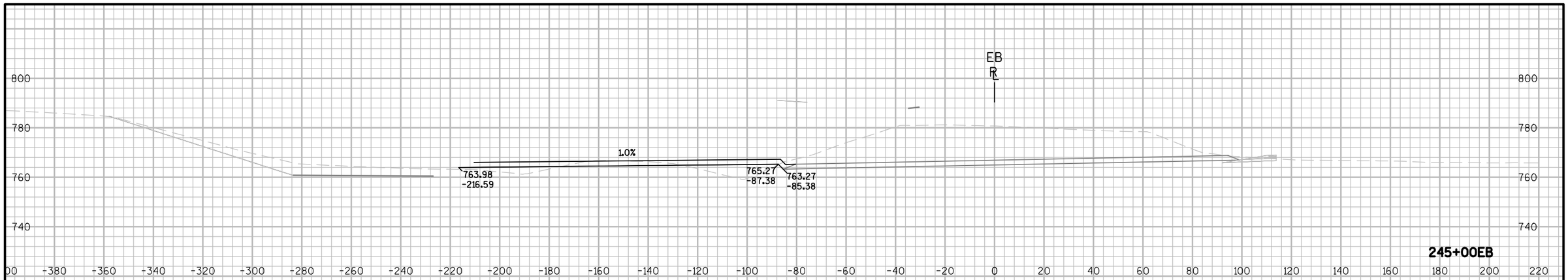
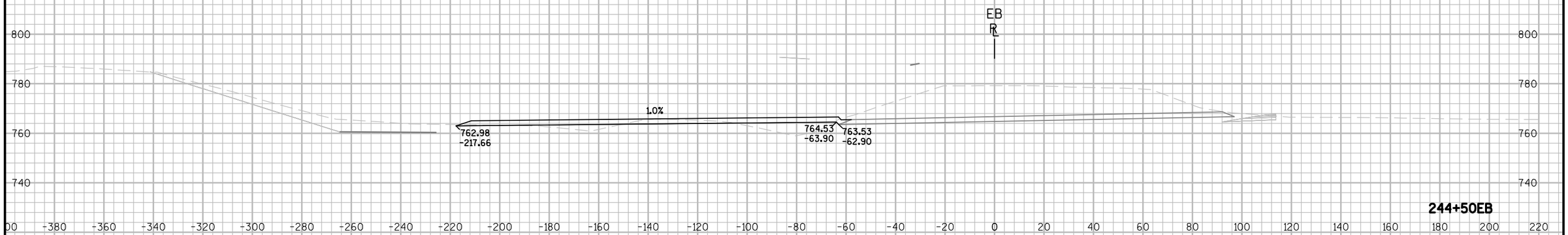
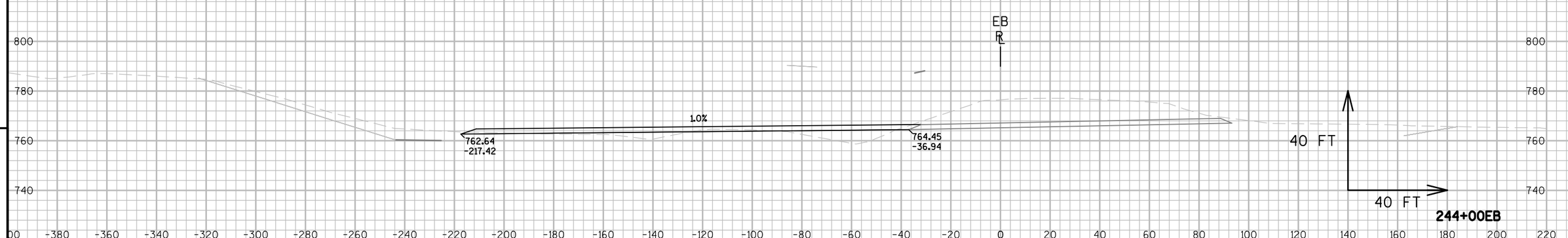
PROJECT NO: 1517-75-72	HWY: STH 441/USH 10	COUNTY: WINNEBAGO	CROSS SECTIONS: STRIP DRAINS-STAGE 1A	SHEET 556	E

FILE NAME : S:\PDS\C3D\WIS441\15177570_72_77_85\SHEETSPLAN\1517-75-72\090200-XS\NE-15177572-090601-XS-WD1A.DWG
LAYOUT NAME - 090610-XS-WD1A
PLOT DATE : 2/9/2017 1:30 PM
PLOT BY : VICKMAN, GARRETT T PLOT NAME :
PLOT SCALE : 1 IN:40 FT
WISDOT/CADDS SHEET 49







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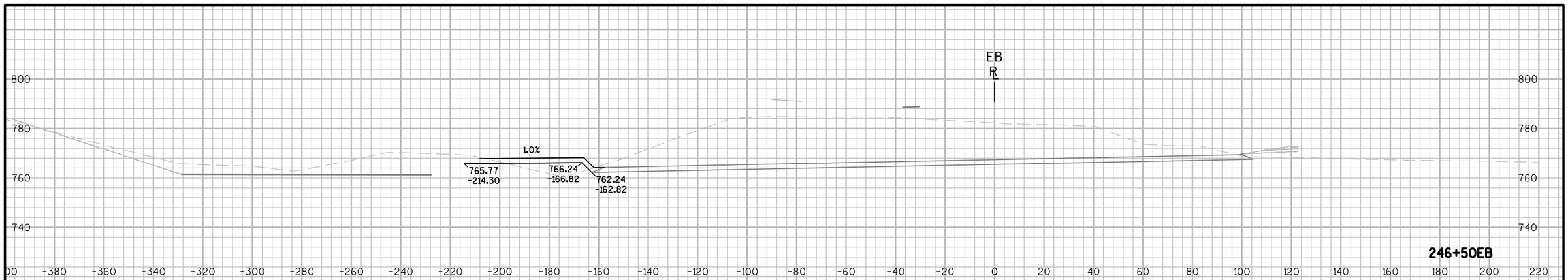
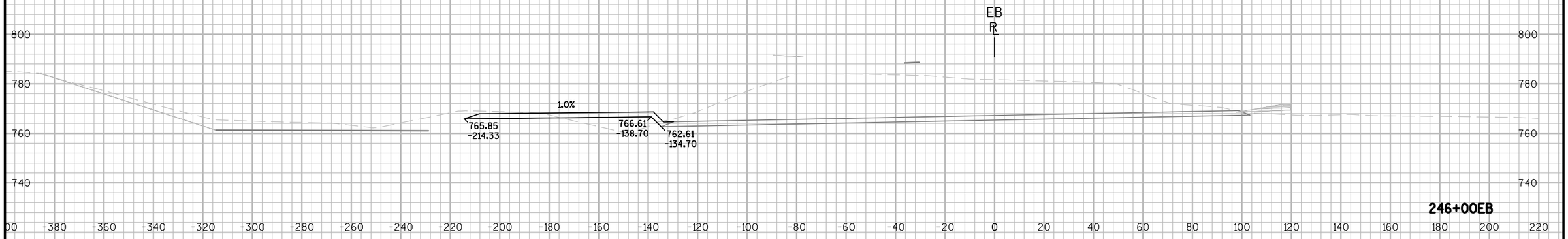
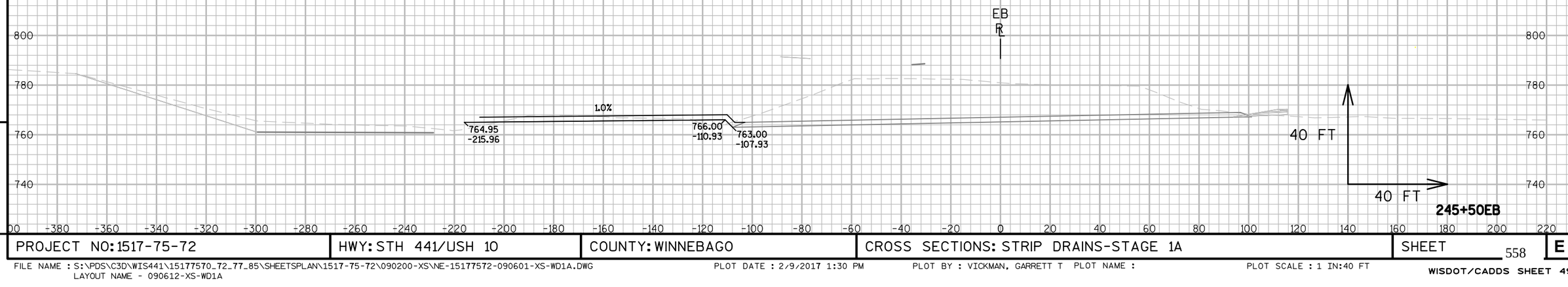
PROJECT NO: 1517-75-72	HWY: STH 441/USH 10	COUNTY: WINNEBAGO	CROSS SECTIONS: STRIP DRAINS-STAGE 1A	SHEET 557	E

FILE NAME : S:\PDS\C3D\WIS441\15177570_72_77_85\SHEETSPLAN\1517-75-72\090200-XS\NE-15177572-090601-XS-WD1A.DWG
LAYOUT NAME - 090611-XS-WD1A
PLOT DATE : 2/9/2017 1:30 PM
PLOT BY : VICKMAN, GARRETT T PLOT NAME :
PLOT SCALE : 1 IN:40 FT
WISDOT/CADDS SHEET 49







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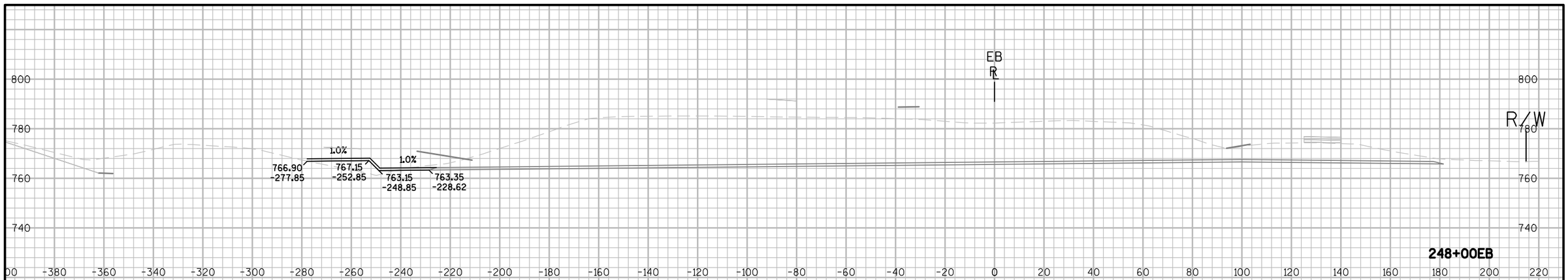
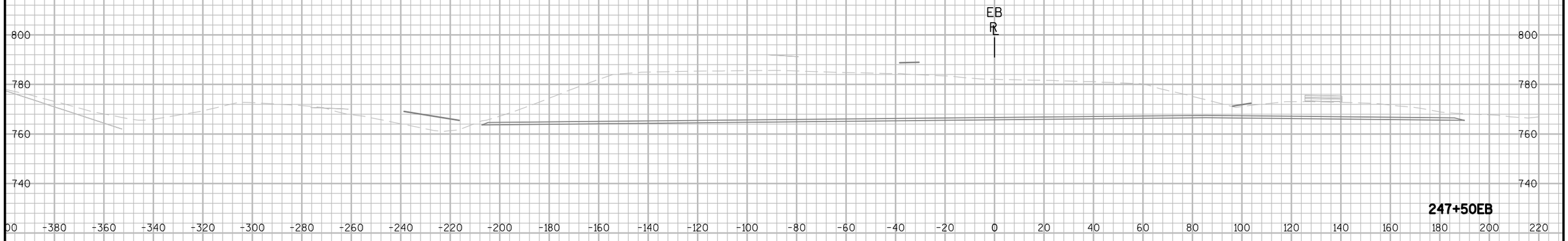
PROJECT NO: 1517-75-72	HWY: STH 441/USH 10	COUNTY: WINNEBAGO	CROSS SECTIONS: STRIP DRAINS-STAGE 1A	SHEET 558	E

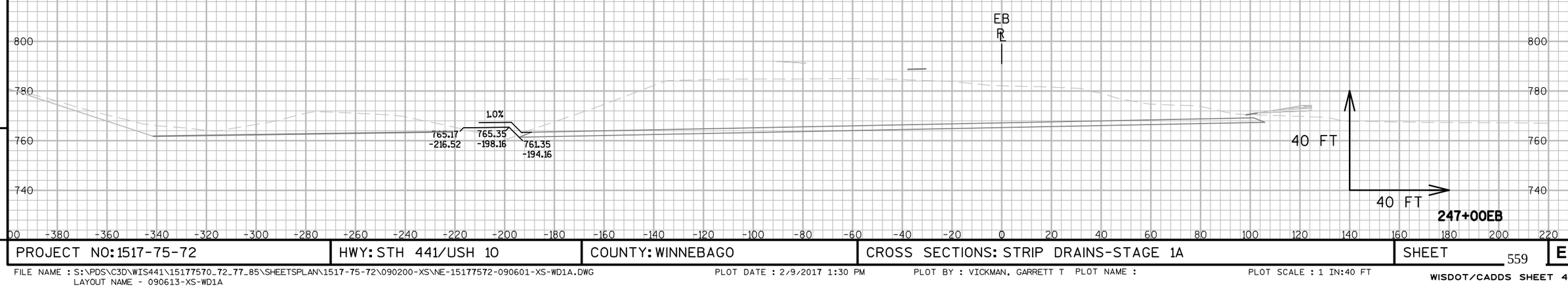
FILE NAME : S:\PDS\C3D\WIS441\15177570_72_77_85\SHEETSPLAN\1517-75-72\090200-XS\NE-15177572-090601-XS-WD1A.DWG
LAYOUT NAME - 090612-XS-WD1A

PLOT DATE : 2/9/2017 1:30 PM PLOT BY : VICKMAN, GARRETT T PLOT NAME : PLOT SCALE : 1 IN:40 FT

WISDOT/CADDS SHEET 49







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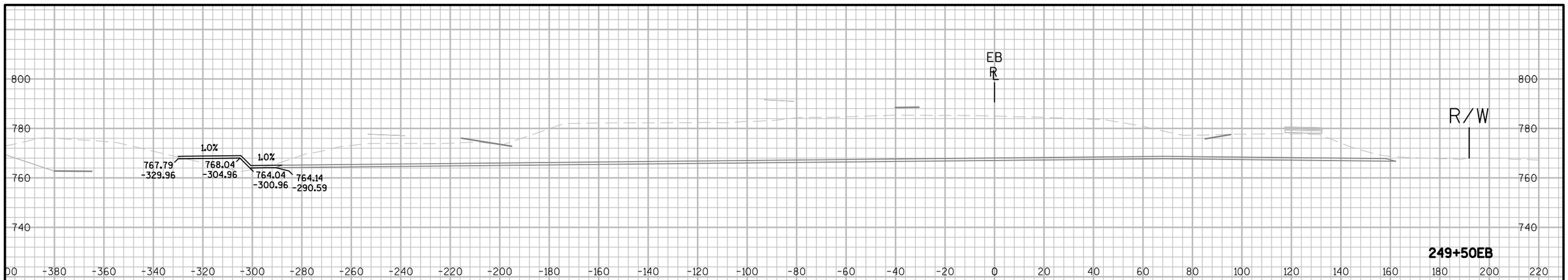
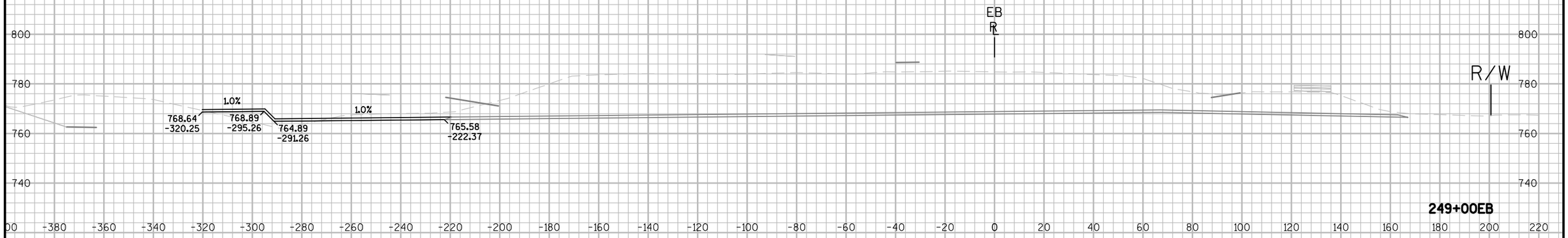
PROJECT NO: 1517-75-72	HWY: STH 441/USH 10	COUNTY: WINNEBAGO	CROSS SECTIONS: STRIP DRAINS-STAGE 1A	SHEET 559	E

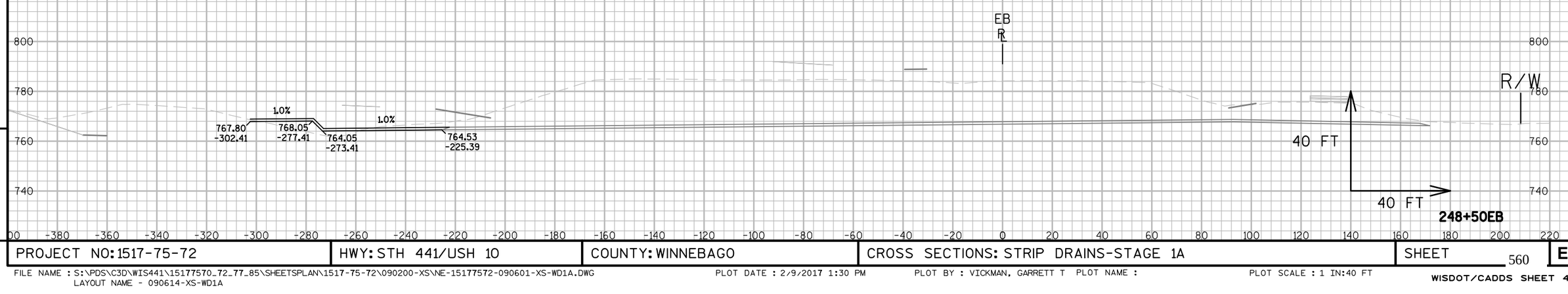
FILE NAME : S:\PDS\C3D\WIS441\15177570_72_77_85\SHEETSPLAN\1517-75-72\090200-XS\NE-15177572-090601-XS-WD1A.DWG
LAYOUT NAME - 090613-XS-WD1A

PLOT DATE : 2/9/2017 1:30 PM PLOT BY : VICKMAN, GARRETT T PLOT NAME : PLOT SCALE : 1 IN:40 FT

WISDOT/CADDS SHEET 49







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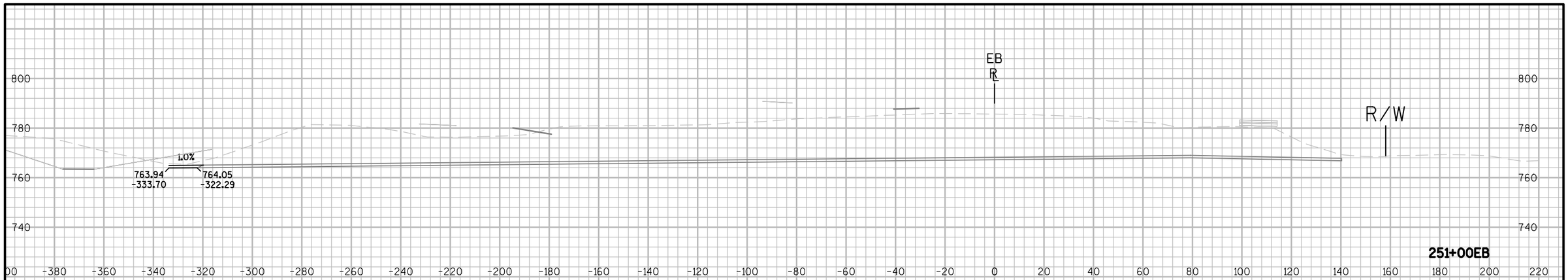
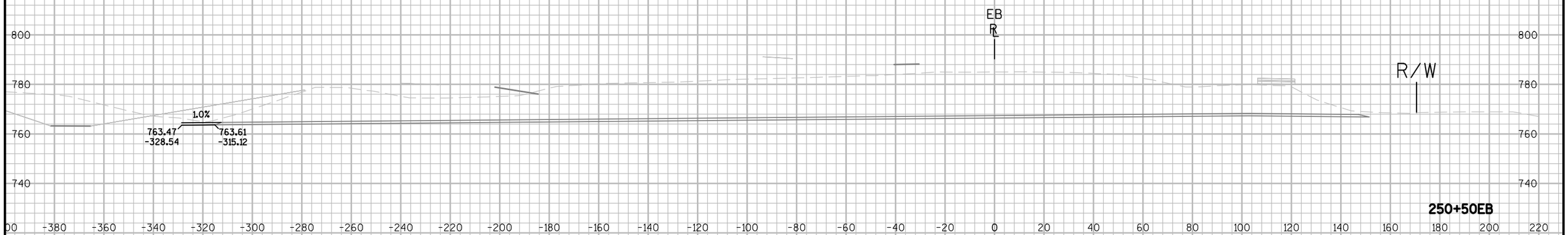
PROJECT NO: 1517-75-72	HWY: STH 441/USH 10	COUNTY: WINNEBAGO	CROSS SECTIONS: STRIP DRAINS-STAGE 1A	SHEET 560	E

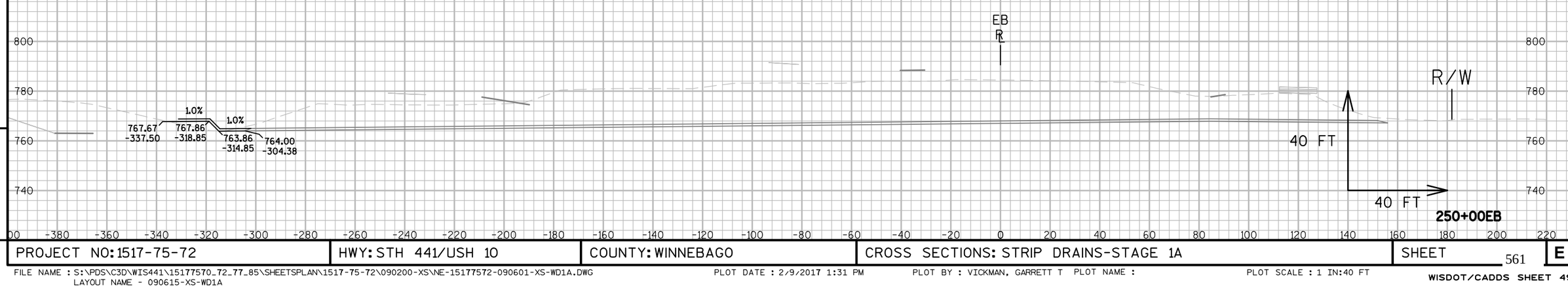
FILE NAME : S:\PDS\C3D\WIS441\15177570_72_77_85\SHEETSPLAN\1517-75-72\090200-XS\NE-15177572-090601-XS-WD1A.DWG
LAYOUT NAME - 090614-XS-WD1A

PLOT DATE : 2/9/2017 1:30 PM PLOT BY : VICKMAN, GARRETT T PLOT NAME : PLOT SCALE : 1 IN:40 FT

WISDOT/CADDS SHEET 49







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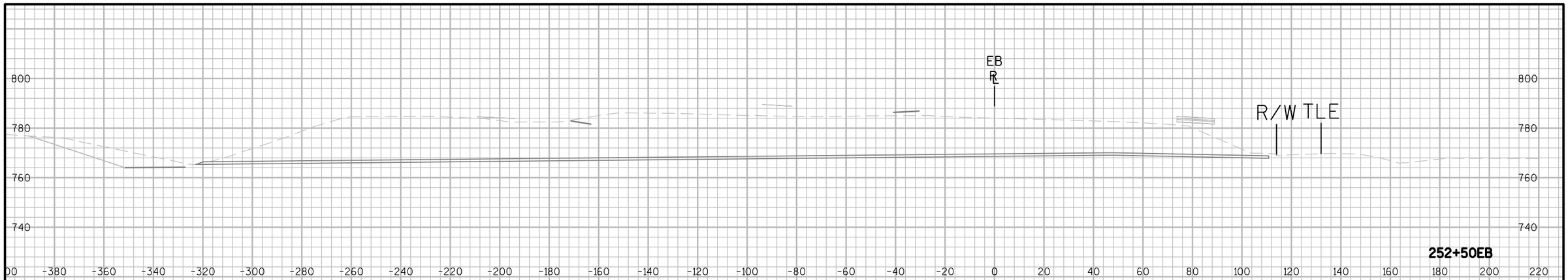
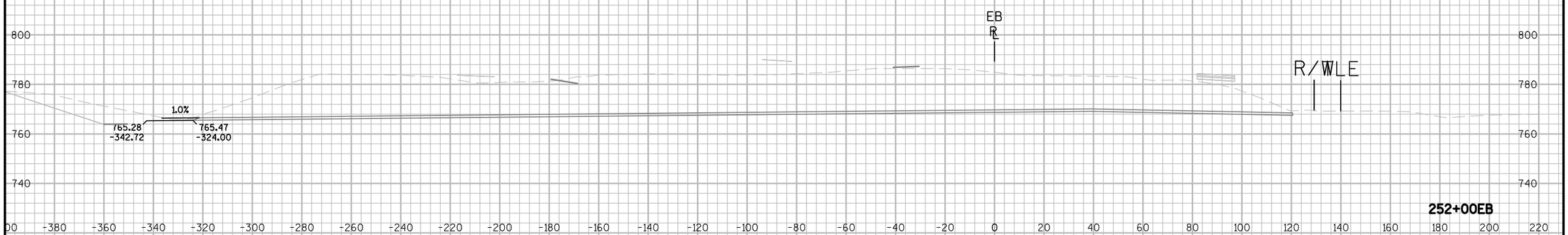
PROJECT NO: 1517-75-72	HWY: STH 441/USH 10	COUNTY: WINNEBAGO	CROSS SECTIONS: STRIP DRAINS-STAGE 1A	SHEET 561	E

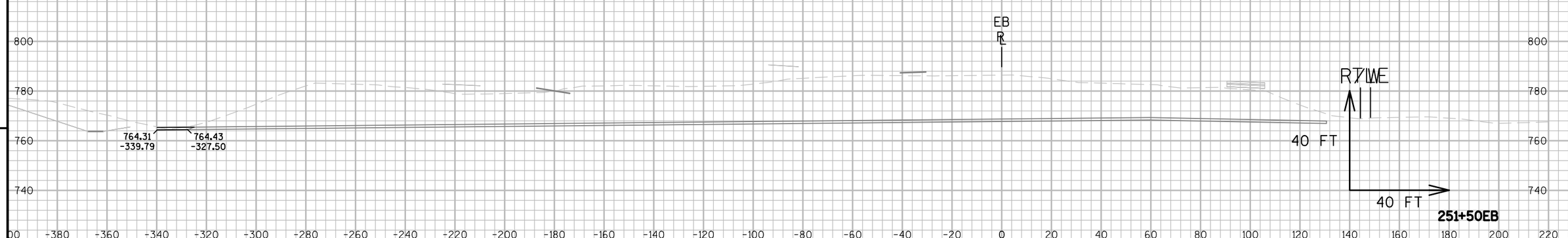
FILE NAME : S:\PDS\C3D\WIS441\15177570_72_77_85\SHEETSPLAN\1517-75-72\090200-XS\NE-15177572-090601-XS-WD1A.DWG
LAYOUT NAME - 090615-XS-WD1A

PLOT DATE : 2/9/2017 1:31 PM PLOT BY : VICKMAN, GARRETT T PLOT NAME : PLOT SCALE : 1 IN:40 FT

WISDOT/CADDS SHEET 49







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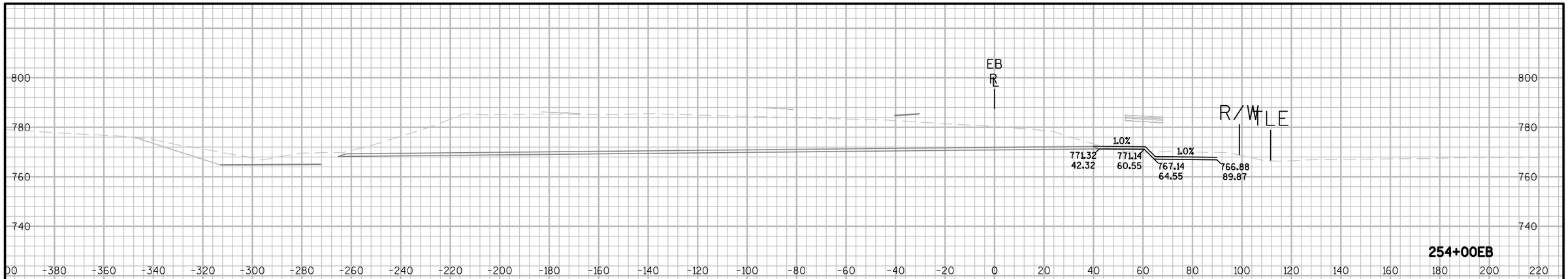
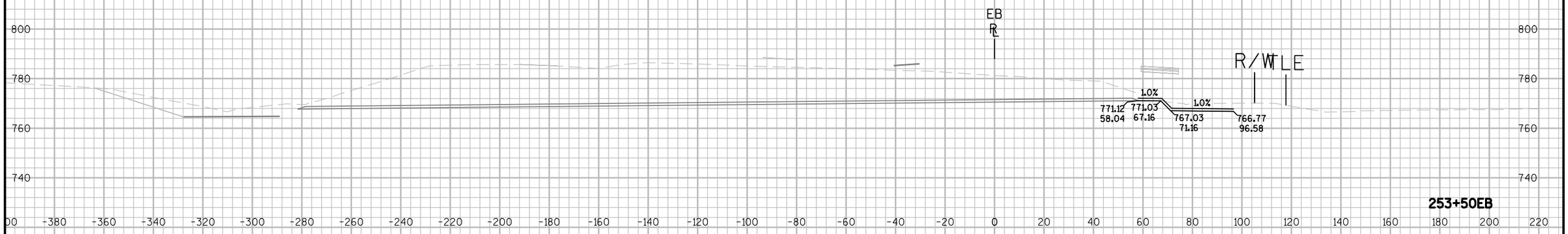
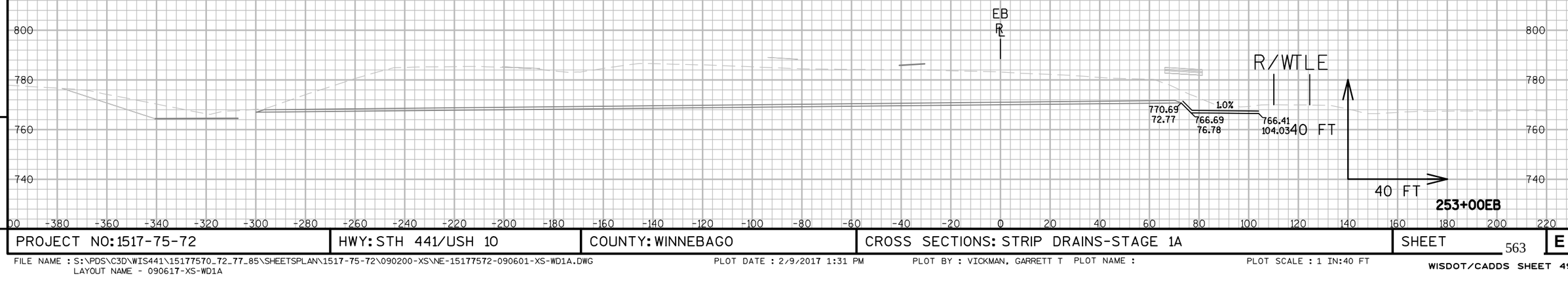
PROJECT NO: 1517-75-72	HWY: STH 441/USH 10	COUNTY: WINNEBAGO	CROSS SECTIONS: STRIP DRAINS-STAGE 1A	SHEET 562	E

FILE NAME : S:\PDS\C3D\WIS441\15177570_72_77_85\SHEETSPLAN\1517-75-72\090200-XS\NE-15177572-090601-XS-WD1A.DWG
LAYOUT NAME - 090616-XS-WD1A
PLOT DATE : 2/9/2017 1:31 PM
PLOT BY : VICKMAN, GARRETT T PLOT NAME :
PLOT SCALE : 1 IN:40 FT
WISDOT/CADDS SHEET 49







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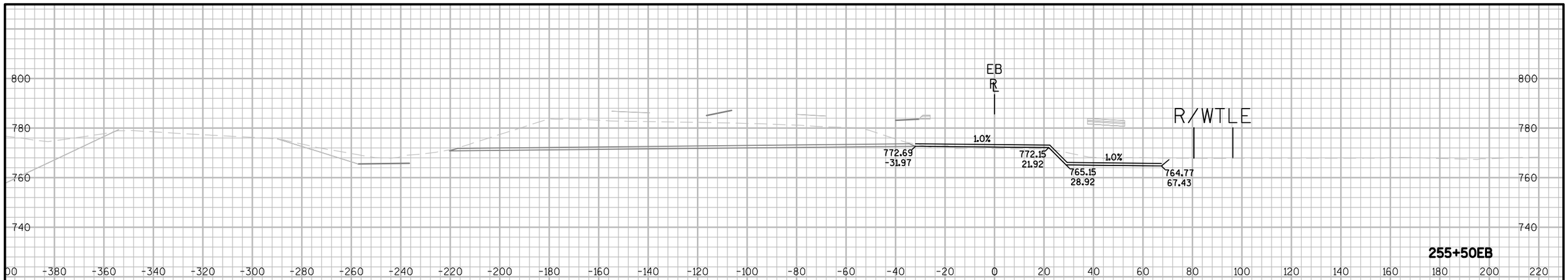
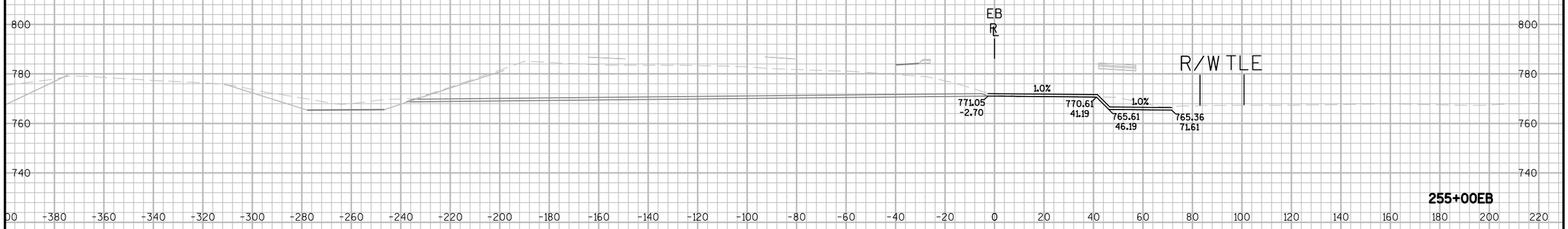
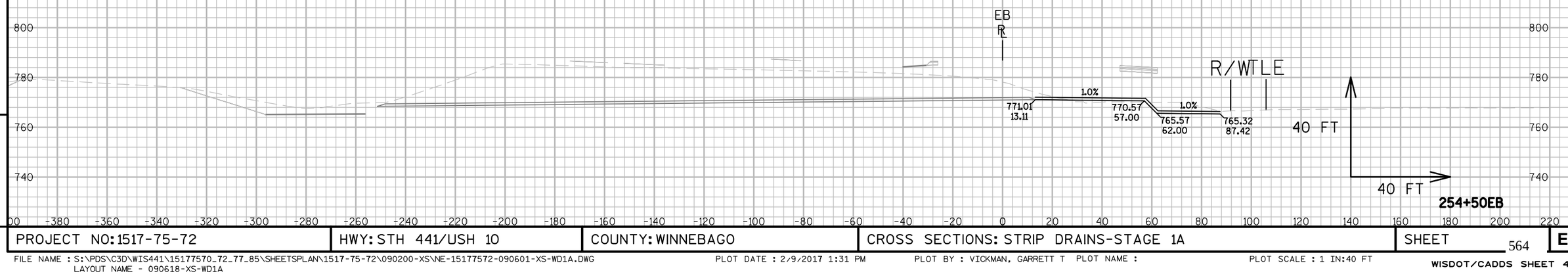
PROJECT NO: 1517-75-72	HWY: STH 441/USH 10	COUNTY: WINNEBAGO	CROSS SECTIONS: STRIP DRAINS-STAGE 1A	SHEET 563	E

FILE NAME : S:\PDS\C3D\WIS441\15177570_72_77_85\SHEETSPLAN\1517-75-72\090200-XS\NE-15177572-090601-XS-WD1A.DWG
LAYOUT NAME - 090617-XS-WD1A
PLOT DATE : 2/9/2017 1:31 PM
PLOT BY : VICKMAN, GARRETT T PLOT NAME :
PLOT SCALE : 1 IN:40 FT







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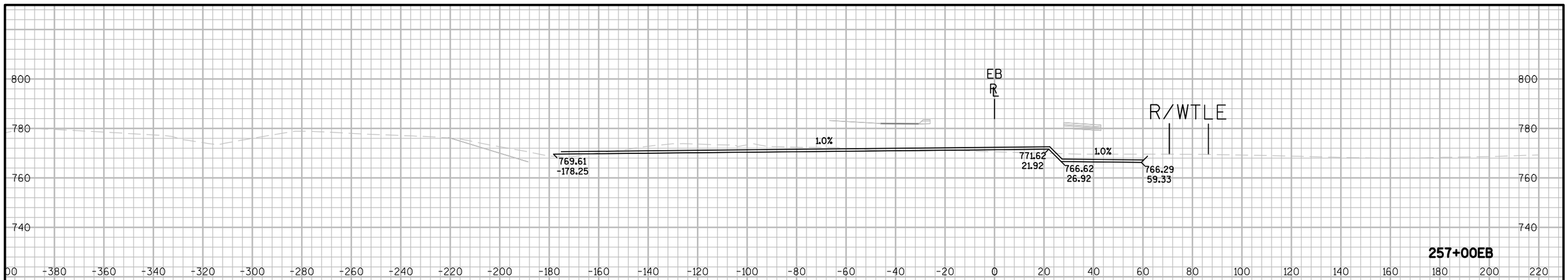
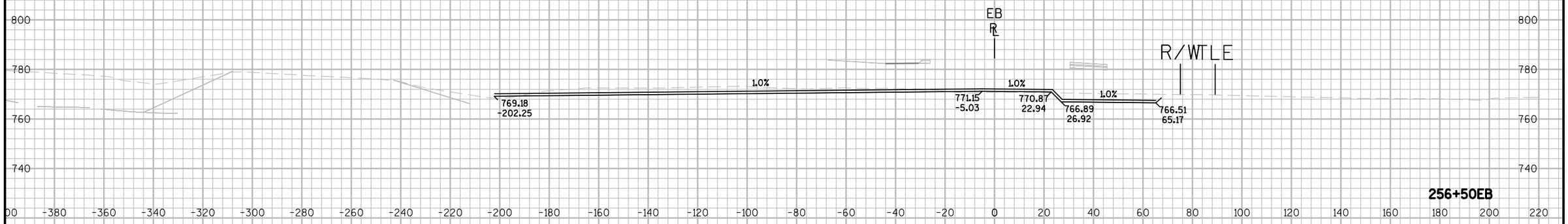
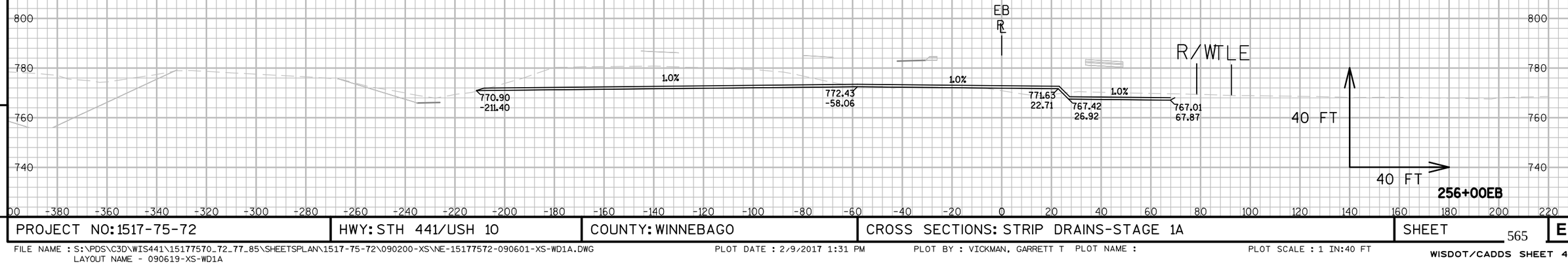
PROJECT NO: 1517-75-72	HWY: STH 441/USH 10	COUNTY: WINNEBAGO	CROSS SECTIONS: STRIP DRAINS-STAGE 1A	SHEET 564	E

FILE NAME : S:\PDS\C3D\WIS441\15177570_72_77_85\SHEETSPLAN\1517-75-72\090200-XS\NE-15177572-090601-XS-WD1A.DWG
LAYOUT NAME - 090618-XS-WD1A
PLOT DATE : 2/9/2017 1:31 PM
PLOT BY : VICKMAN, GARRETT T PLOT NAME :
PLOT SCALE : 1 IN:40 FT







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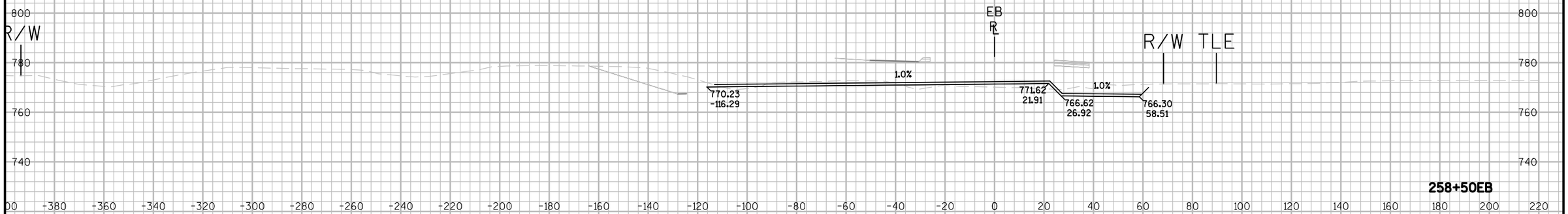
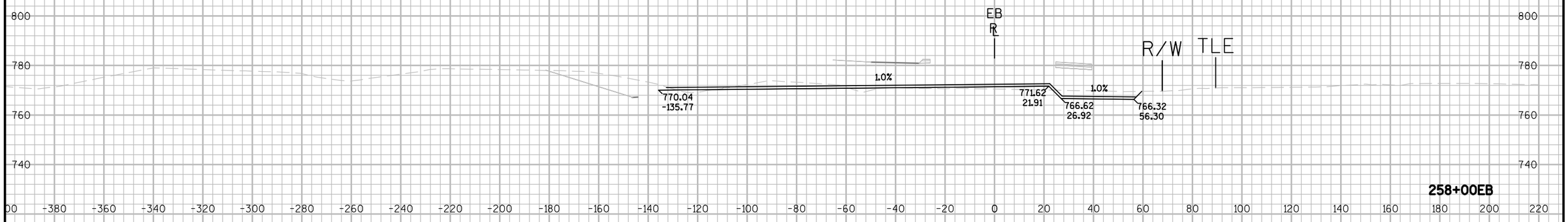
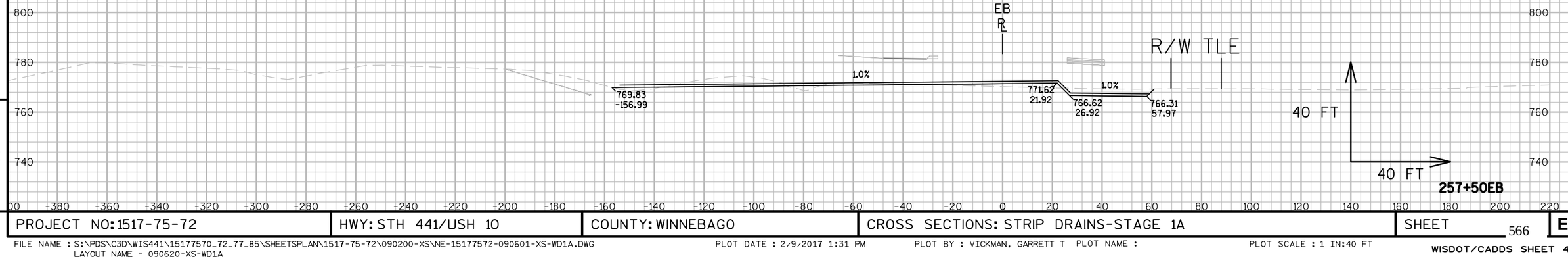
PROJECT NO: 1517-75-72	HWY: STH 441/USH 10	COUNTY: WINNEBAGO	CROSS SECTIONS: STRIP DRAINS-STAGE 1A	SHEET 565	E

FILE NAME : S:\PDS\C3D\WIS441\15177570_72_77_85\SHEETSPLAN\1517-75-72\090200-XS\NE-15177572-090601-XS-WD1A.DWG
LAYOUT NAME - 090619-XS-WD1A
PLOT DATE : 2/9/2017 1:31 PM
PLOT BY : VICKMAN, GARRETT T PLOT NAME :
PLOT SCALE : 1 IN:40 FT
WISDOT/CADDS SHEET 49







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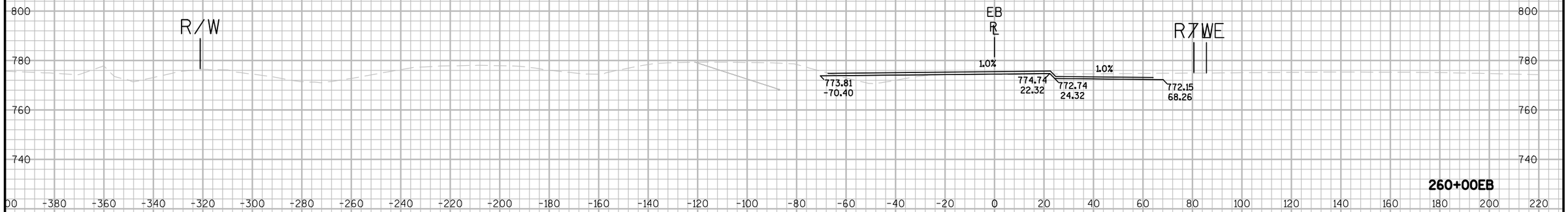
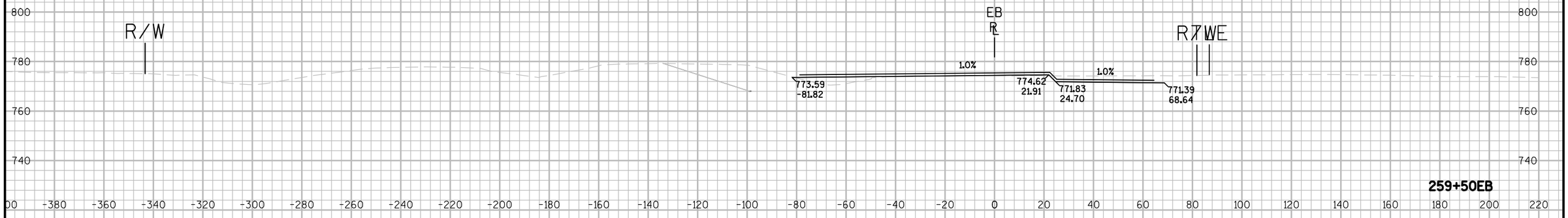
PROJECT NO: 1517-75-72	HWY: STH 441/USH 10	COUNTY: WINNEBAGO	CROSS SECTIONS: STRIP DRAINS-STAGE 1A	SHEET 566	E

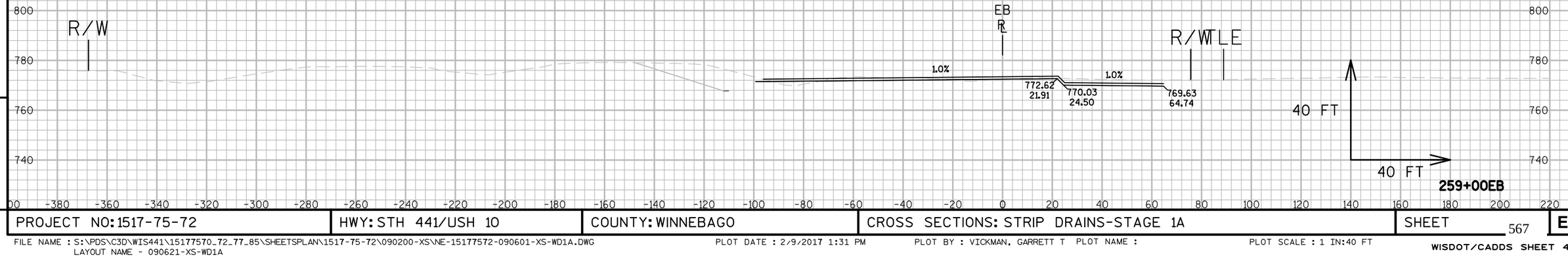
FILE NAME : S:\PDS\C3D\WIS441\15177570_72_77_85\SHEETSPLAN\1517-75-72\090200-XS\NE-15177572-090601-XS-WD1A.DWG
LAYOUT NAME - 090620-XS-WD1A
PLOT DATE : 2/9/2017 1:31 PM PLOT BY : VICKMAN, GARRETT T PLOT NAME : PLOT SCALE : 1 IN:40 FT
WISDOT/CADDS SHEET 49



260+00EB



259+50EB



259+00EB

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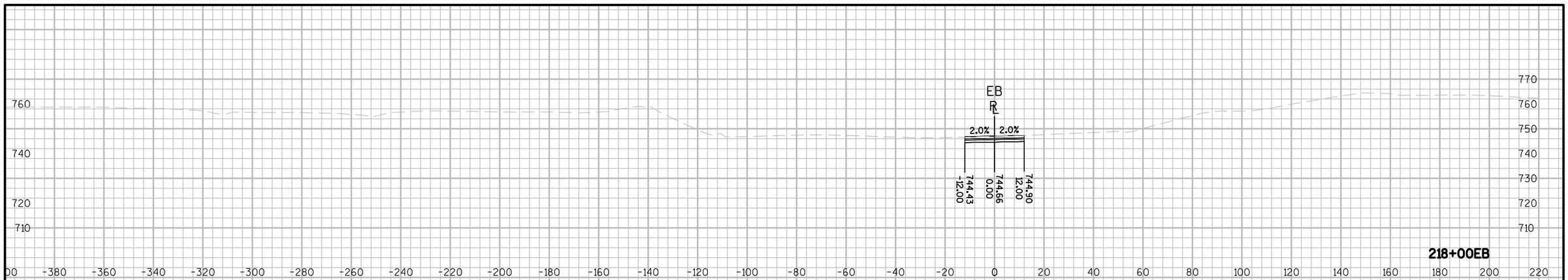
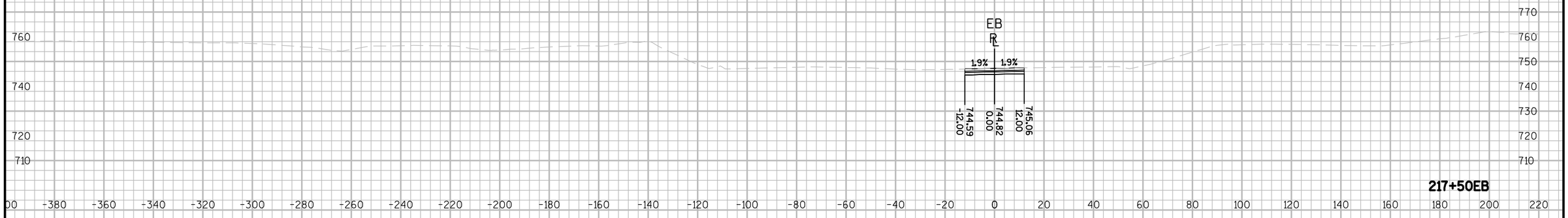
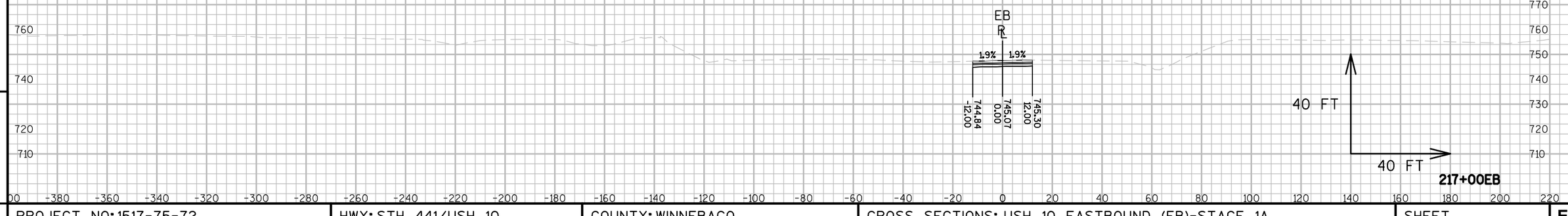
PROJECT NO: 1517-75-72	HWY: STH 441/USH 10	COUNTY: WINNEBAGO	CROSS SECTIONS: STRIP DRAINS-STAGE 1A	SHEET 567	E

FILE NAME : S:\PDS\C3D\WIS441\15177570_72_77_85\SHEETSPLAN\1517-75-72\090200-XS\NE-15177572-090601-XS-WD1A.DWG
LAYOUT NAME - 090621-XS-WD1A
PLOT DATE : 2/9/2017 1:31 PM
PLOT BY : VICKMAN, GARRETT T PLOT NAME :
PLOT SCALE : 1 IN:40 FT







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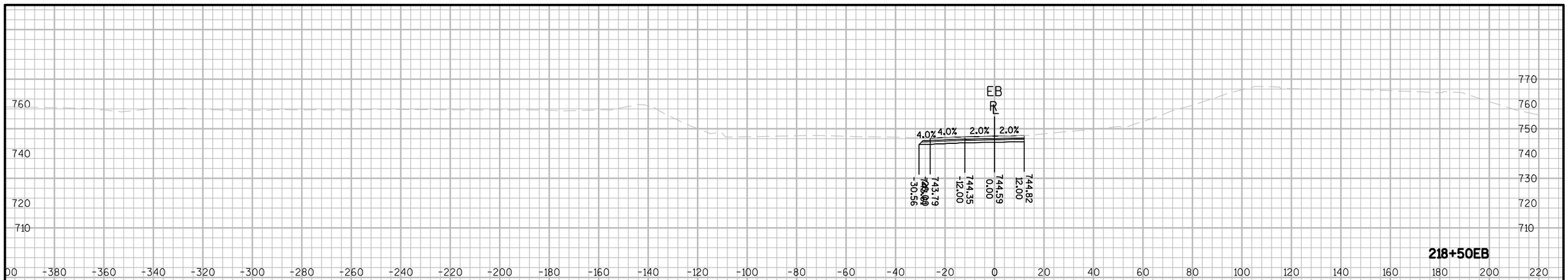
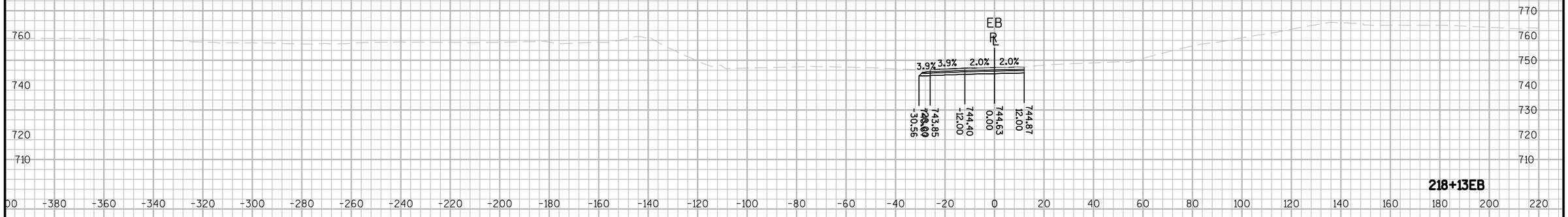
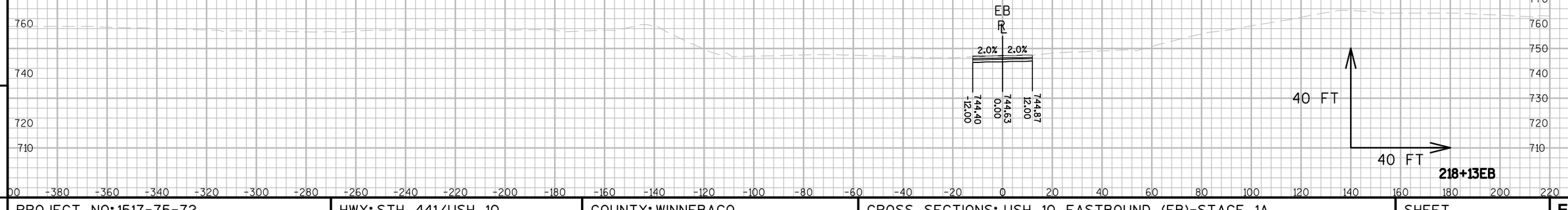
PROJECT NO: 1517-75-72	HWY: STH 441/USH 10	COUNTY: WINNEBAGO	CROSS SECTIONS: USH 10 EASTBOUND (EB)-STAGE 1A	SHEET 568	E

FILE NAME : S:\PDS\C3D\WIS441\15177570_72_77_85\SHEETSPLAN\1517-75-72\090200-XS\NE-15177572-090201-XS-EB-1A.DWG
LAYOUT NAME - 090201-XS-EB-1A
PLOT DATE : 2/9/2017 1:39 PM
PLOT BY : VICKMAN, GARRETT T
PLOT NAME :
PLOT SCALE : 1 IN:40 FT







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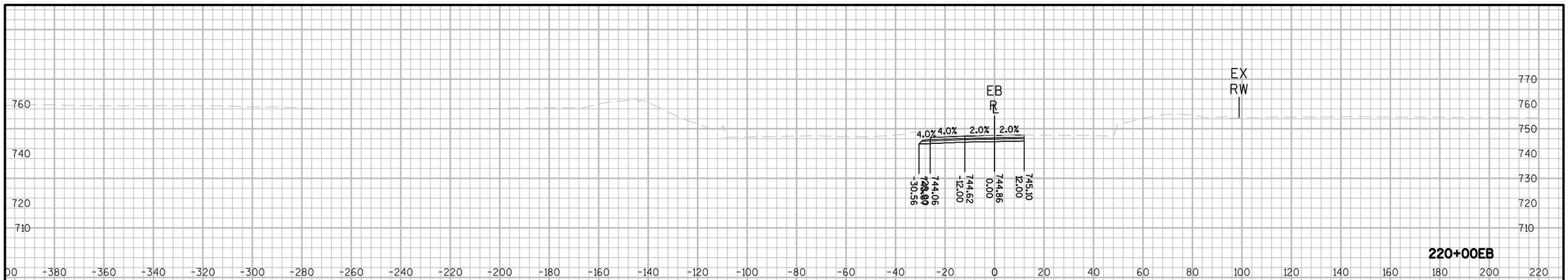
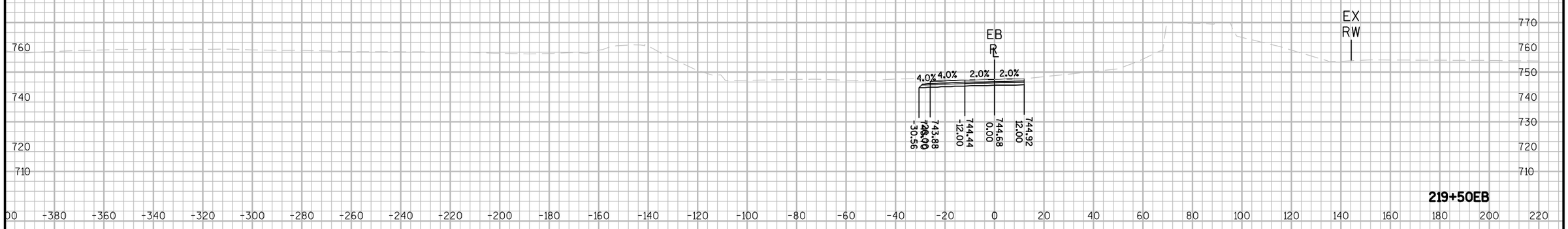
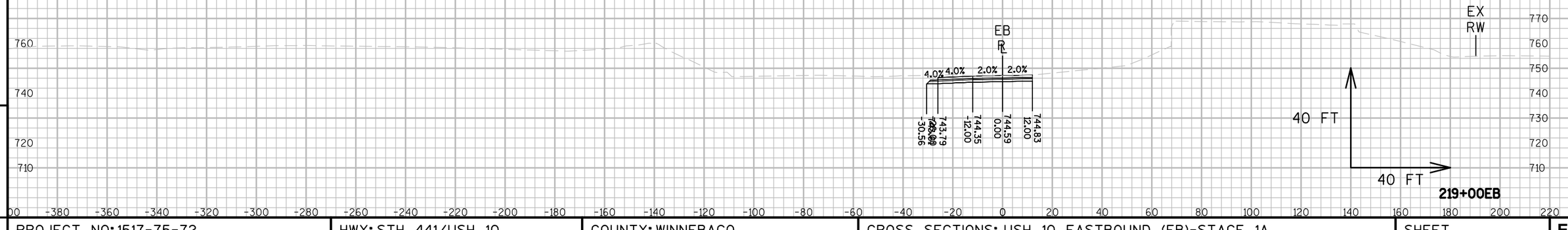
PROJECT NO: 1517-75-72	HWY: STH 441/USH 10	COUNTY: WINNEBAGO	CROSS SECTIONS: USH 10 EASTBOUND (EB)-STAGE 1A	SHEET 569	E

FILE NAME : S:\PDS\C3D\WIS441\15177570_72_77_85\SHEETSPLAN\1517-75-72\090200-XS\NE-15177572-090201-XS-EB-1A.DWG
LAYOUT NAME - 090202-XS-EB-1A
PLOT DATE : 2/9/2017 1:39 PM
PLOT BY : VICKMAN, GARRETT T
PLOT NAME :
PLOT SCALE : 1 IN:40 FT







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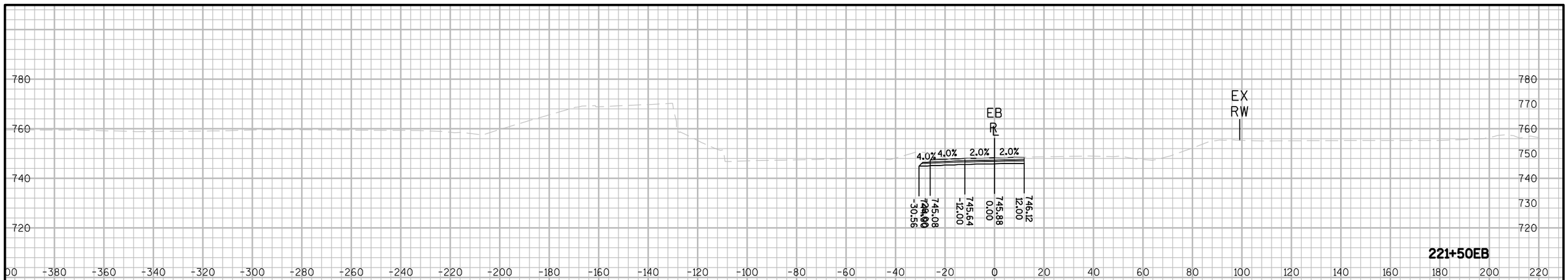
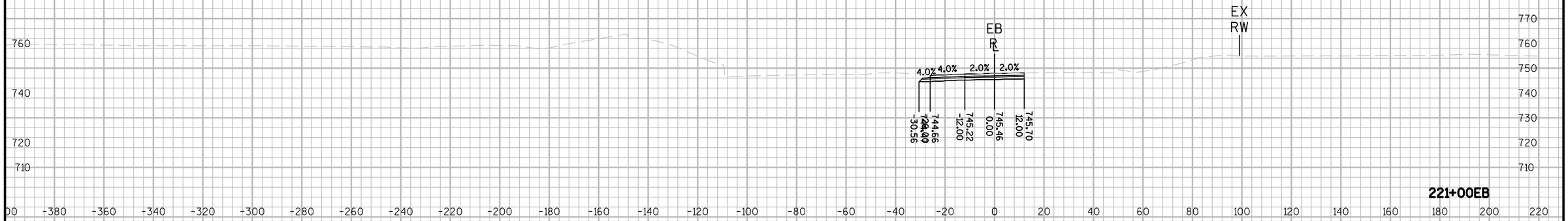
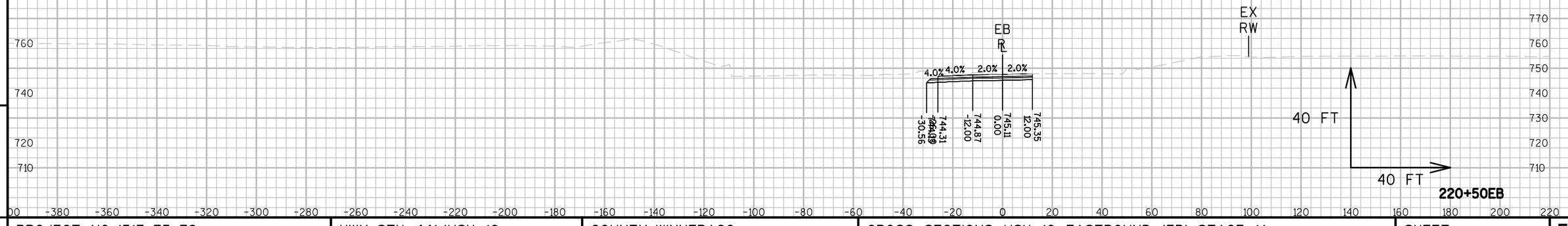
PROJECT NO: 1517-75-72	HWY: STH 441/USH 10	COUNTY: WINNEBAGO	CROSS SECTIONS: USH 10 EASTBOUND (EB)-STAGE 1A	SHEET 570	E

FILE NAME : S:\PDS\C3D\WIS441\15177570_72_77_85\SHEETSPLAN\1517-75-72\090200-XS\NE-15177572-090201-XS-EB-1A.DWG
LAYOUT NAME - 090203-XS-EB-1A
PLOT DATE : 2/9/2017 1:40 PM
PLOT BY : VICKMAN, GARRETT T PLOT NAME :
PLOT SCALE : 1 IN:40 FT







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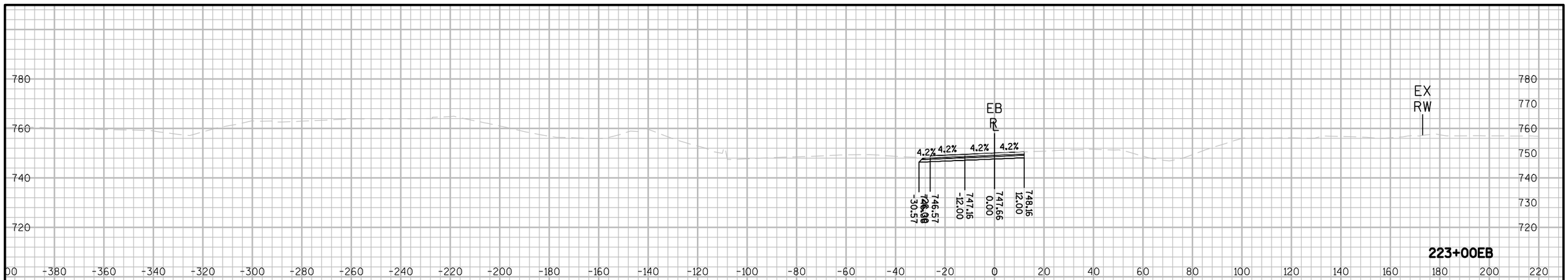
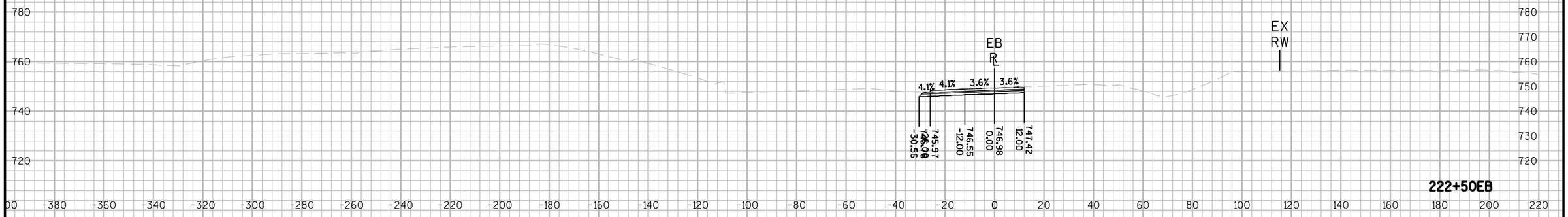
9

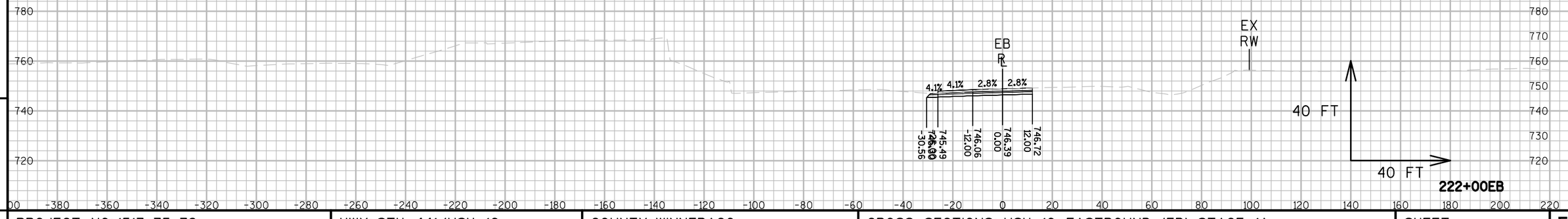
PROJECT NO: 1517-75-72	HWY: STH 441/USH 10	COUNTY: WINNEBAGO	CROSS SECTIONS: USH 10 EASTBOUND (EB)-STAGE 1A	SHEET 571	E

FILE NAME : S:\PDS\C3D\WIS441\15177570_72_77_85\SHEETSPLAN\1517-75-72\090200-XS\NE-15177572-090201-XS-EB-1A.DWG
LAYOUT NAME - 090204-XS-EB-1A

PLOT DATE : 2/9/2017 1:40 PM PLOT BY : VICKMAN, GARRETT T PLOT NAME : PLOT SCALE : 1 IN:40 FT







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PROJECT NO: 1517-75-72	HWY: STH 441/USH 10	COUNTY: WINNEBAGO	CROSS SECTIONS: USH 10 EASTBOUND (EB)-STAGE 1A	SHEET 572	E

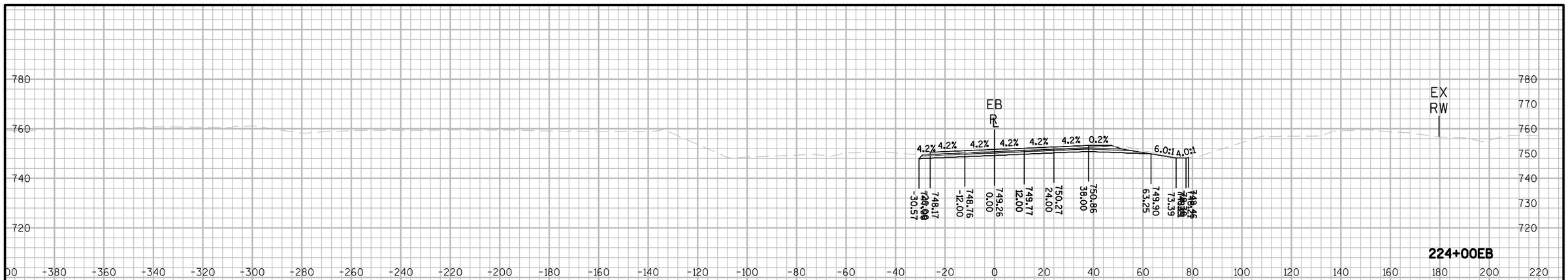
FILE NAME : S:\PDS\C3D\WIS441\15177570_72_77_85\SHEETSPLAN\1517-75-72\090200-XS\NE-15177572-090201-XS-EB-1A.DWG
LAYOUT NAME - 090205-XS-EB-1A

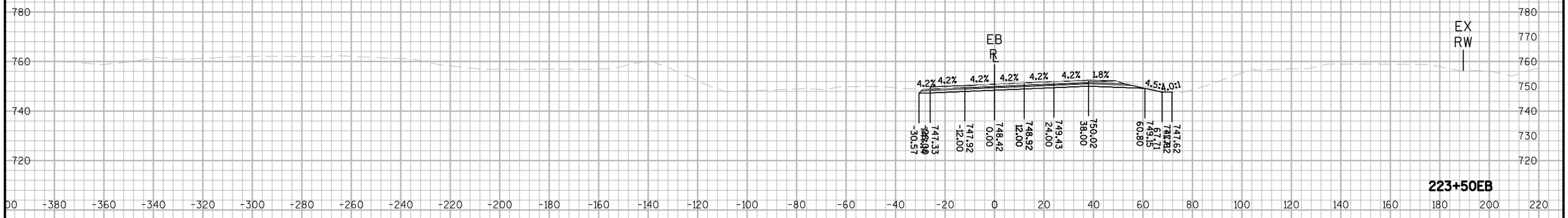
PLOT DATE : 2/9/2017 1:40 PM

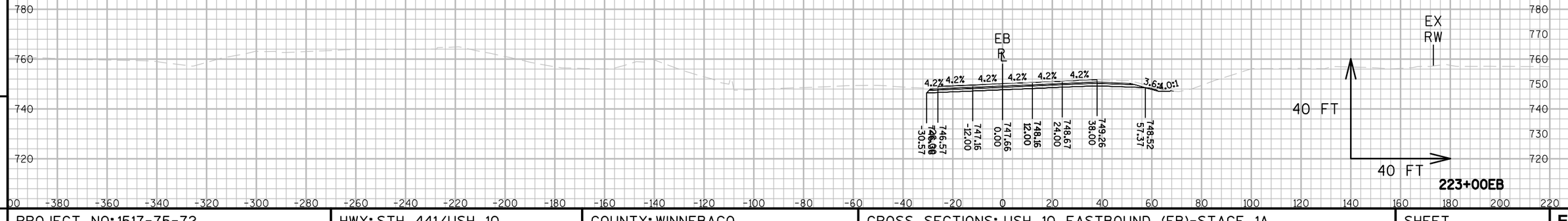
PLOT BY : VICKMAN, GARRETT T PLOT NAME :

PLOT SCALE : 1 IN:40 FT

WISDOT/CADDS SHEET 49







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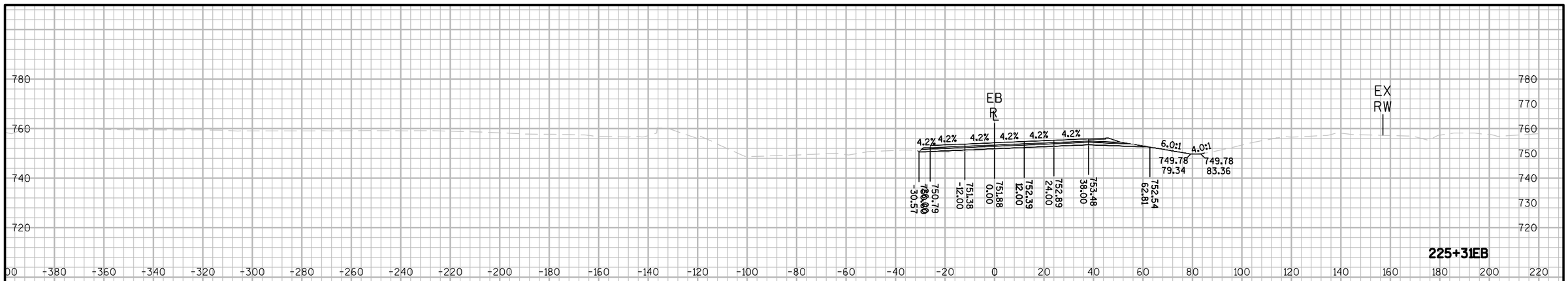
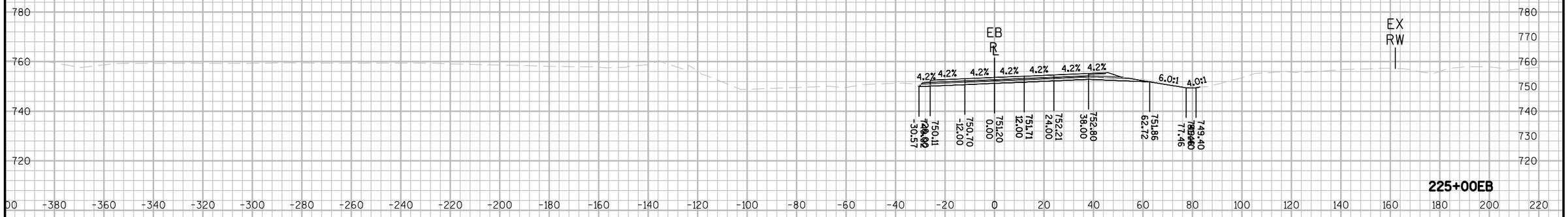
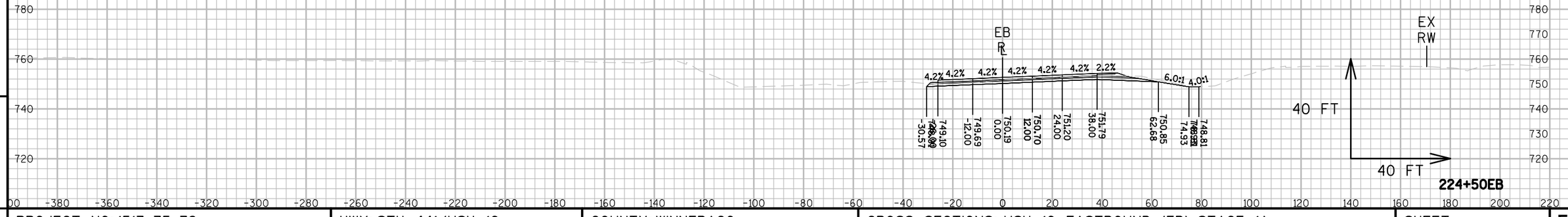
PROJECT NO: 1517-75-72	HWY: STH 441/USH 10	COUNTY: WINNEBAGO	CROSS SECTIONS: USH 10 EASTBOUND (EB)-STAGE 1A	SHEET 573	E

FILE NAME : S:\PDS\C3D\WIS441\15177570_72_77_85\SHEETSPLAN\1517-75-72\090200-XS\NE-15177572-090201-XS-EB-1A.DWG
LAYOUT NAME - 090206-XS-EB-1A
PLOT DATE : 2/9/2017 1:40 PM
PLOT BY : VICKMAN, GARRETT T PLOT NAME :
PLOT SCALE : 1 IN:40 FT







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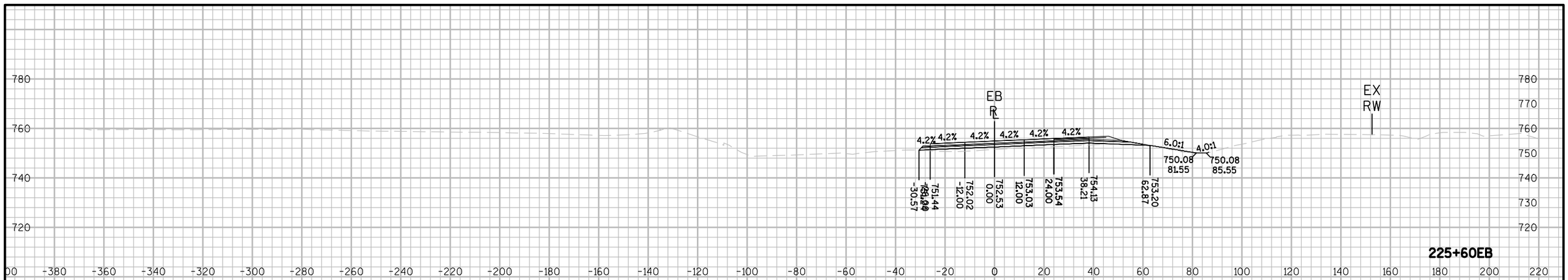
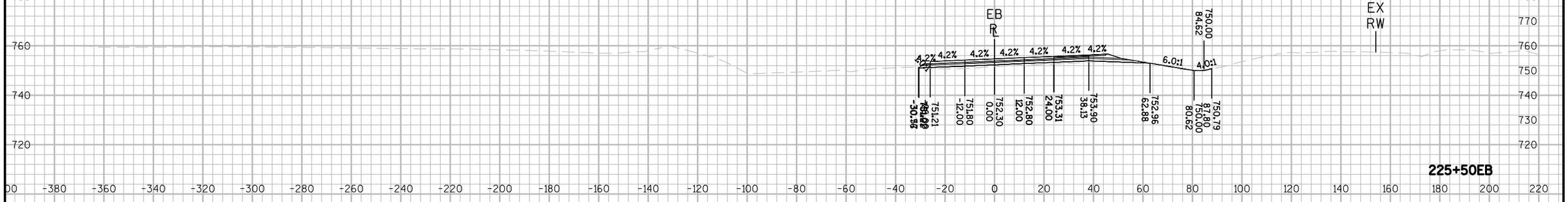
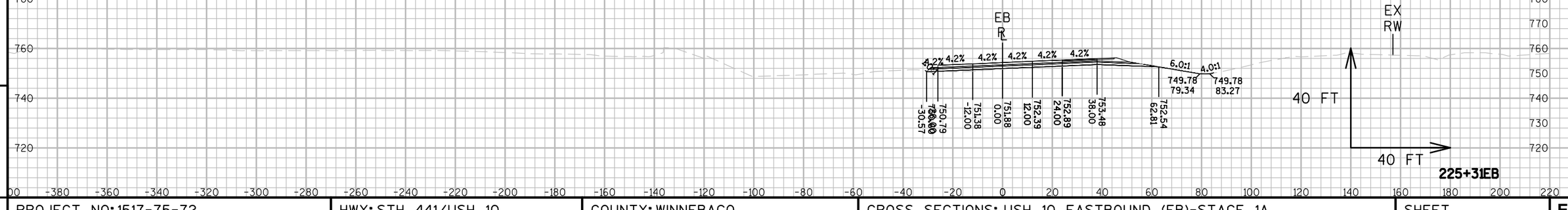
PROJECT NO: 1517-75-72	HWY: STH 441/USH 10	COUNTY: WINNEBAGO	CROSS SECTIONS: USH 10 EASTBOUND (EB)-STAGE 1A	SHEET 574	E







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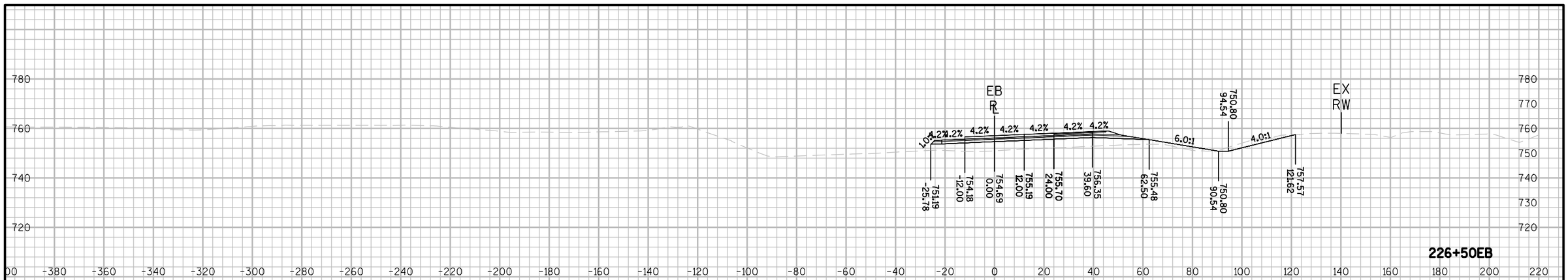
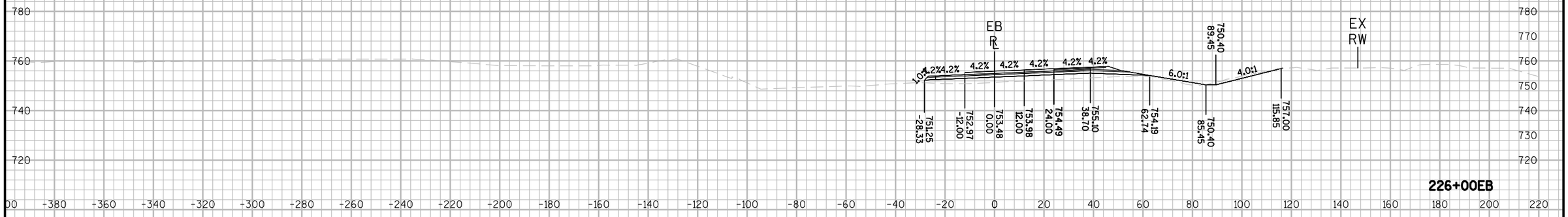
PROJECT NO: 1517-75-72	HWY: STH 441/USH 10	COUNTY: WINNEBAGO	CROSS SECTIONS: USH 10 EASTBOUND (EB)-STAGE 1A	SHEET 575	E

FILE NAME : S:\PDS\C3D\WIS441\15177570_72_77_85\SHEETSPLAN\1517-75-72\090200-XS\NE-15177572-090201-XS-EB-1A.DWG
LAYOUT NAME - 090208-XS-EB-1A

PLOT DATE : 2/9/2017 1:40 PM PLOT BY : VICKMAN, GARRETT T PLOT NAME : PLOT SCALE : 1 IN:40 FT



226+50EB



226+00EB

225+60EB

9

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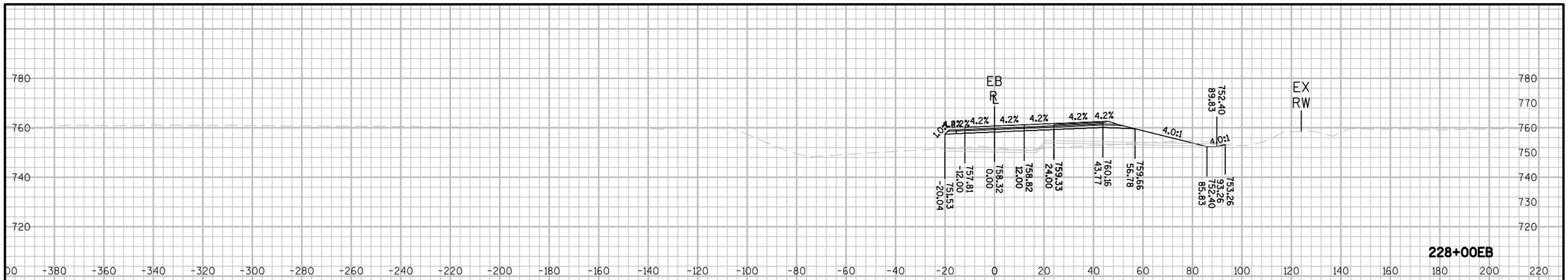
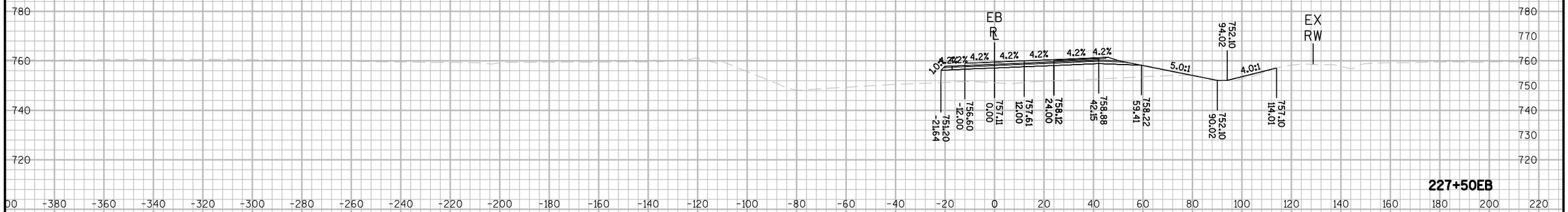
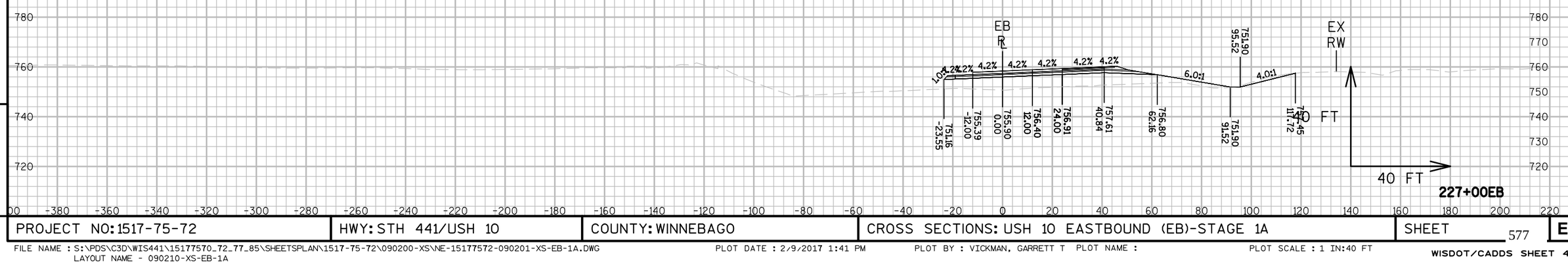
PROJECT NO: 1517-75-72	HWY: STH 441/USH 10	COUNTY: WINNEBAGO	CROSS SECTIONS: USH 10 EASTBOUND (EB)-STAGE 1A	SHEET 576	E

FILE NAME : S:\PDS\C3D\WIS441\15177570_72_77_85\SHEETSPLAN\1517-75-72\090200-XS\NE-15177572-090201-XS-EB-1A.DWG
LAYOUT NAME - 090209-XS-EB-1A
PLOT DATE : 2/9/2017 1:40 PM
PLOT BY : VICKMAN, GARRETT T PLOT NAME :
PLOT SCALE : 1 IN:40 FT
WISDOT/CADDS SHEET 49







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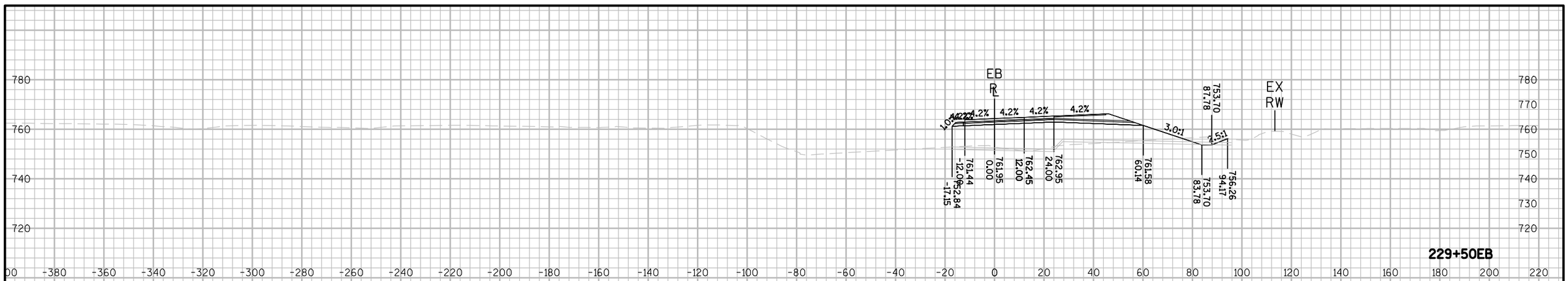
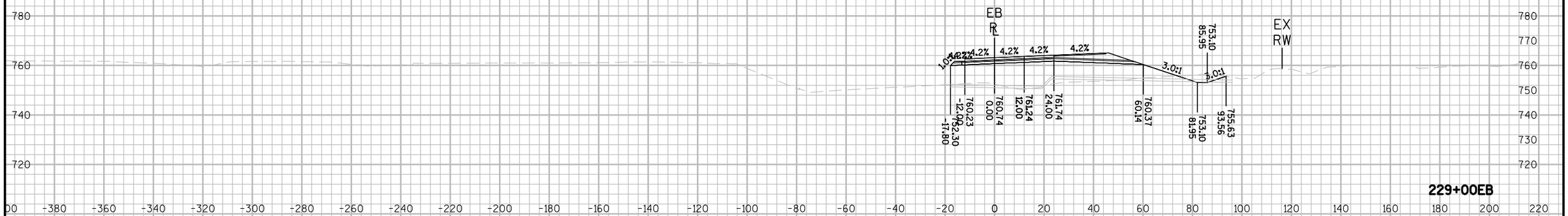
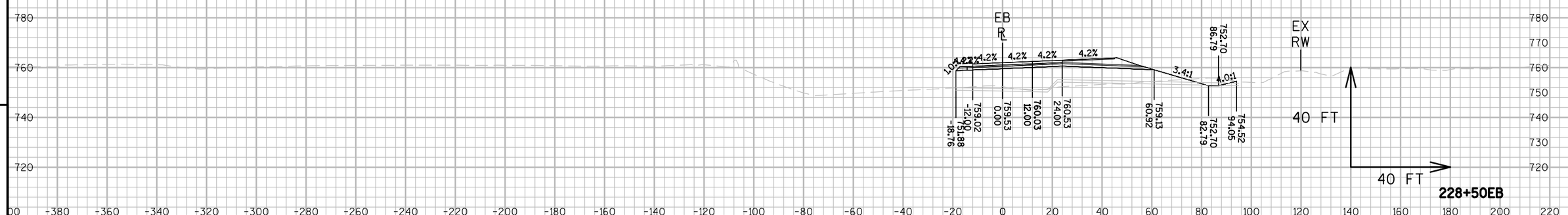
PROJECT NO: 1517-75-72	HWY: STH 441/USH 10	COUNTY: WINNEBAGO	CROSS SECTIONS: USH 10 EASTBOUND (EB)-STAGE 1A	SHEET 577	E







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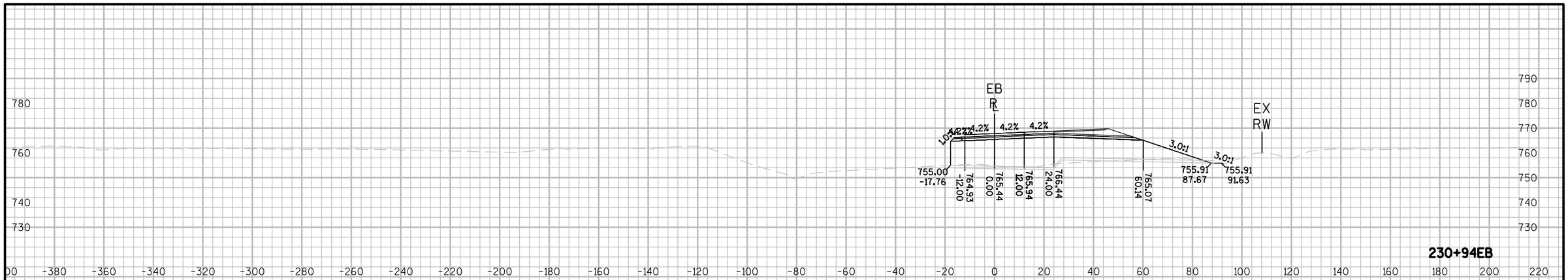
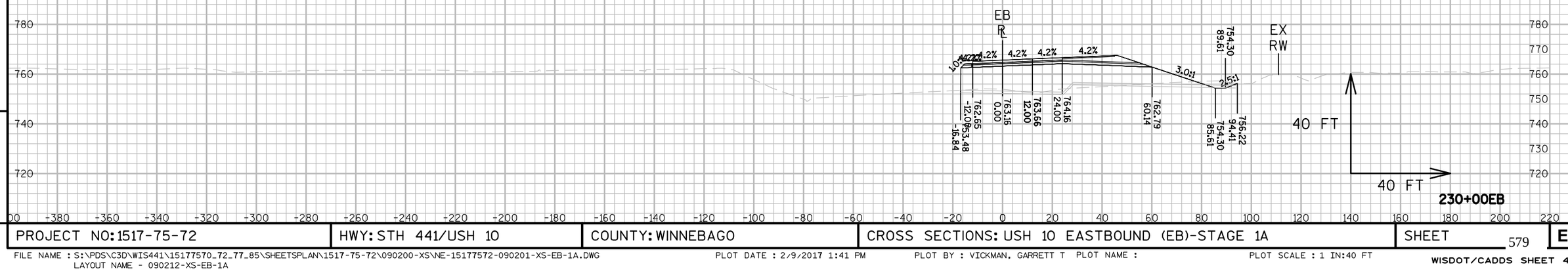
PROJECT NO: 1517-75-72	HWY: STH 441/USH 10	COUNTY: WINNEBAGO	CROSS SECTIONS: USH 10 EASTBOUND (EB)-STAGE 1A	SHEET 578	E

FILE NAME : S:\PDS\C3D\WIS441\15177570_72_77_85\SHEETSPLAN\1517-75-72\090200-XS\NE-15177572-090201-XS-EB-1A.DWG
LAYOUT NAME - 090211-XS-EB-1A
PLOT DATE : 2/9/2017 1:41 PM
PLOT BY : VICKMAN, GARRETT T PLOT NAME :
PLOT SCALE : 1 IN:40 FT
WISDOT/CADDS SHEET 49





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PROJECT NO: 1517-75-72	HWY: STH 441/USH 10	COUNTY: WINNEBAGO	CROSS SECTIONS: USH 10 EASTBOUND (EB)-STAGE 1A	SHEET 579	E

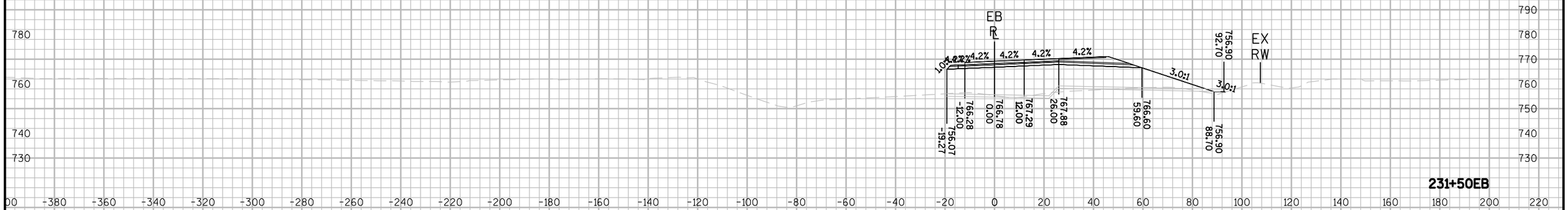
FILE NAME : S:\PDS\C3D\WIS441\15177570_72_77_85\SHEETSPLAN\1517-75-72\090200-XS\NE-15177572-090201-XS-EB-1A.DWG
LAYOUT NAME - 090212-XS-EB-1A

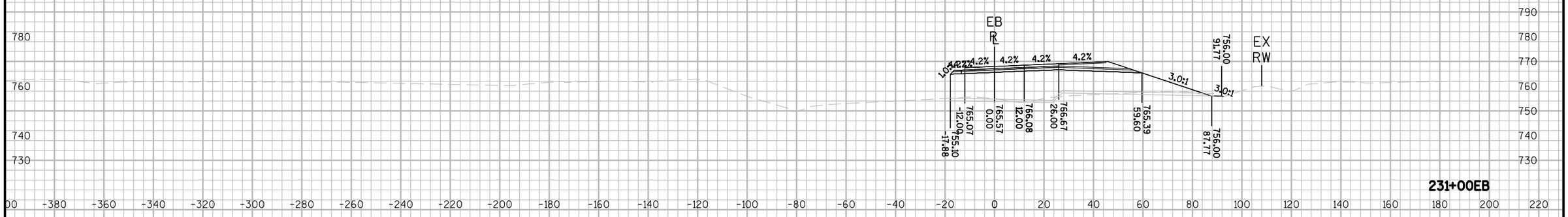
PLOT DATE : 2/9/2017 1:41 PM

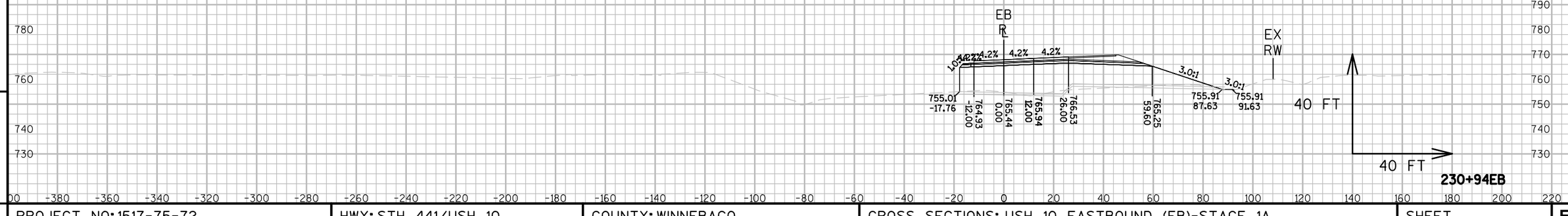
PLOT BY : VICKMAN, GARRETT T PLOT NAME :

PLOT SCALE : 1 IN:40 FT

WISDOT/CADDS SHEET 49

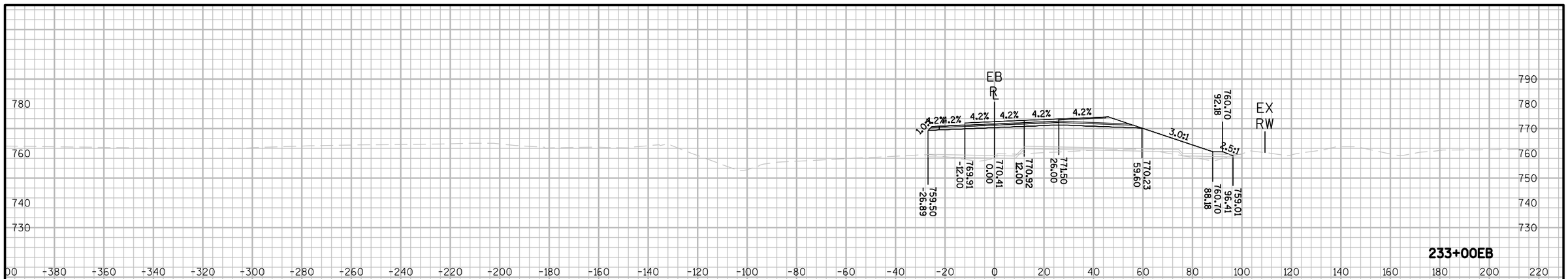


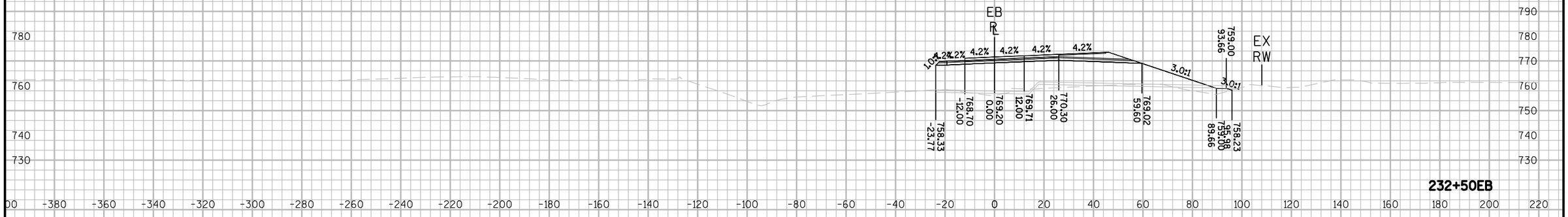


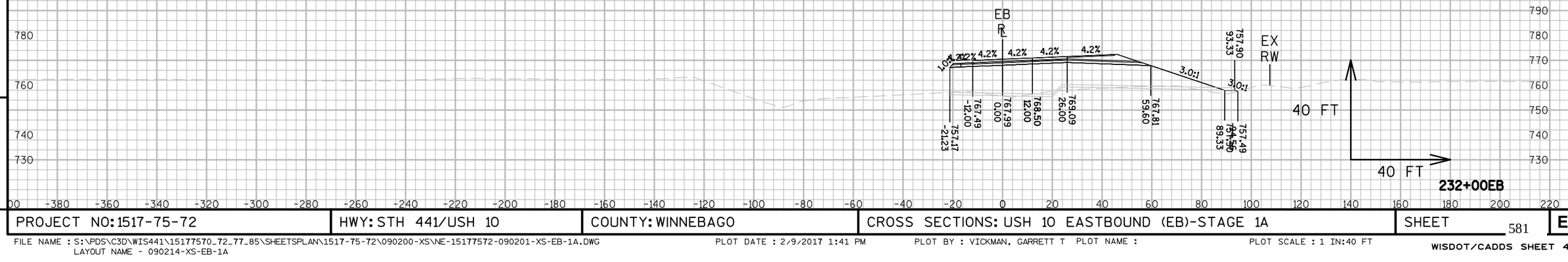


PROJECT NO: 1517-75-72	HWY: STH 441/USH 10	COUNTY: WINNEBAGO	CROSS SECTIONS: USH 10 EASTBOUND (EB)-STAGE 1A	SHEET 580	E

FILE NAME : S:\PDS\C3D\WIS441\15177570_72_77_85\SHEETSPLAN\1517-75-72\090200-XS\NE-15177572-090201-XS-EB-1A.DWG
LAYOUT NAME - 090213-XS-EB-1A
PLOT DATE : 2/9/2017 1:41 PM
PLOT BY : VICKMAN, GARRETT T PLOT NAME :
PLOT SCALE : 1 IN:40 FT
WISDOT/CADDS SHEET 49







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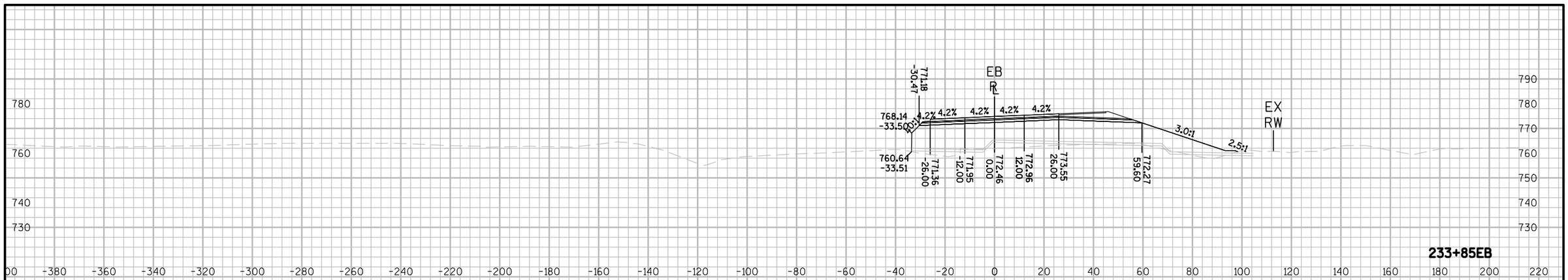
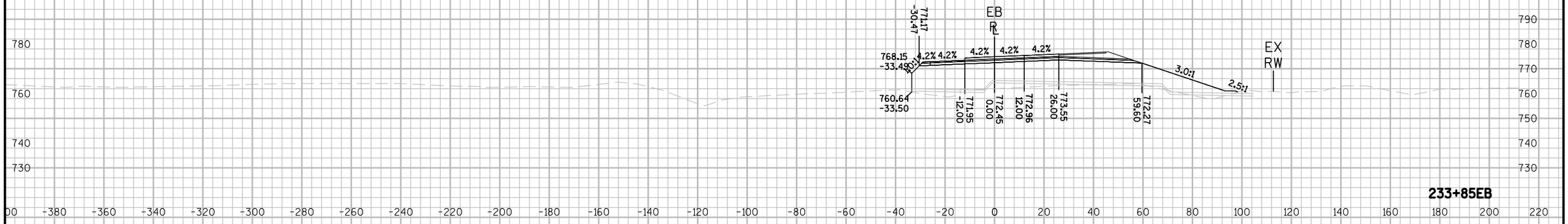
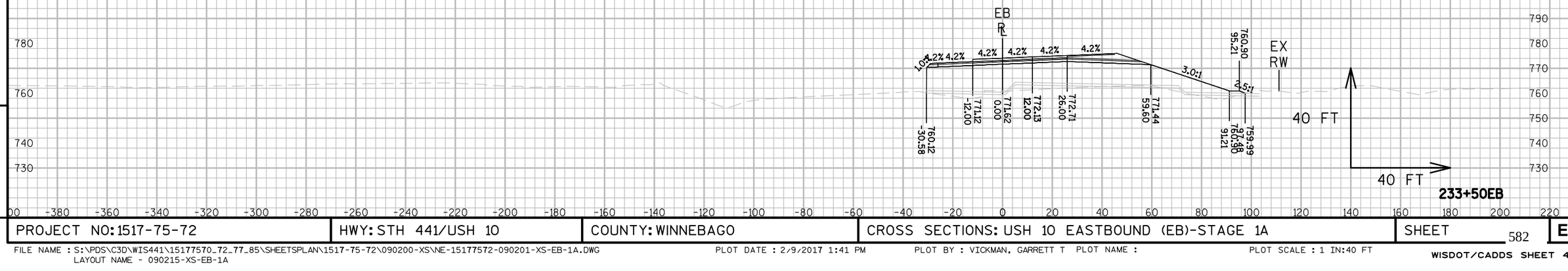
PROJECT NO: 1517-75-72	HWY: STH 441/USH 10	COUNTY: WINNEBAGO	CROSS SECTIONS: USH 10 EASTBOUND (EB)-STAGE 1A	SHEET 581	E







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9

PROJECT NO: 1517-75-72	HWY: STH 441/USH 10	COUNTY: WINNEBAGO	CROSS SECTIONS: USH 10 EASTBOUND (EB)-STAGE 1A	SHEET 582	E

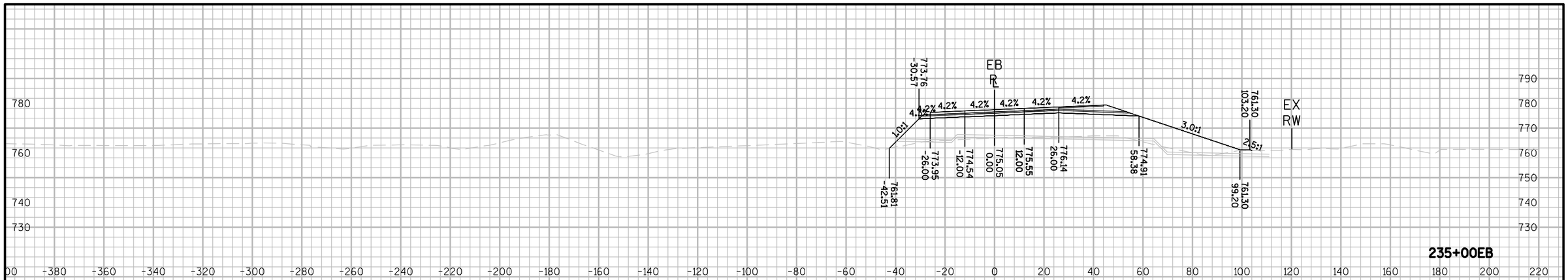
FILE NAME : S:\PDS\C3D\WIS441\15177570_72_77_85\SHEETSPLAN\1517-75-72\090200-XS\NE-15177572-090201-XS-EB-1A.DWG
LAYOUT NAME - 090215-XS-EB-1A

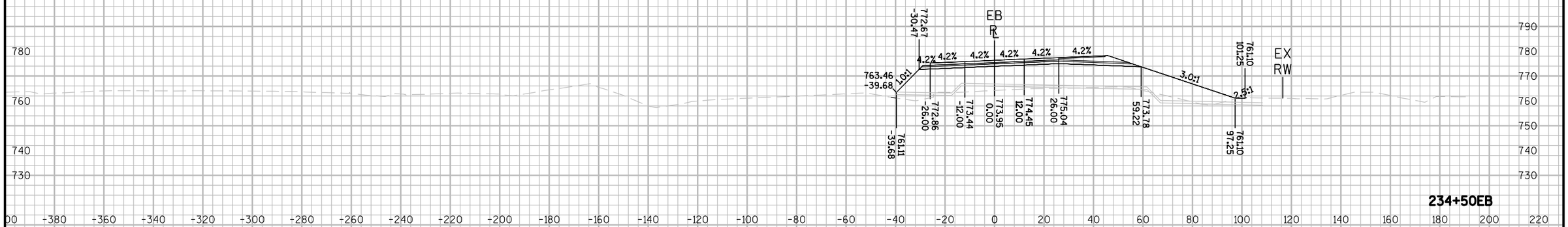
PLOT DATE : 2/9/2017 1:41 PM

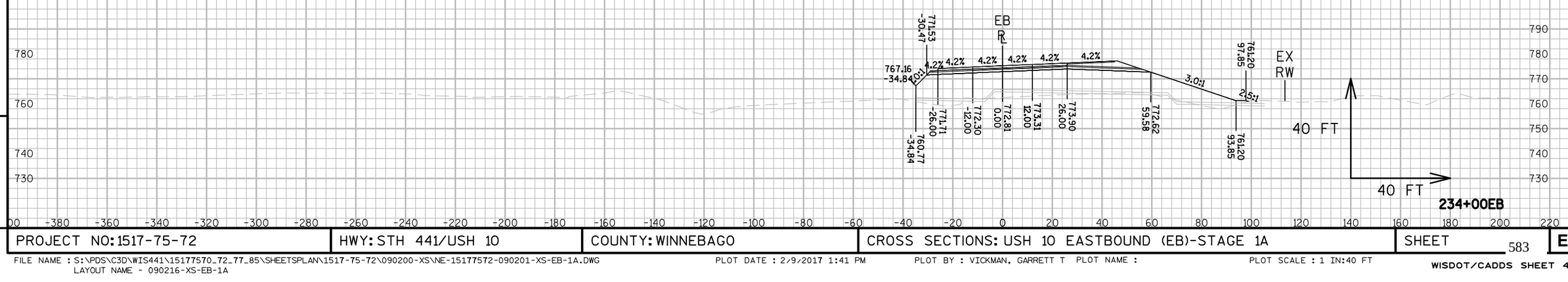
PLOT BY : VICKMAN, GARRETT T PLOT NAME :

PLOT SCALE : 1 IN:40 FT

WISDOT/CADDS SHEET 49







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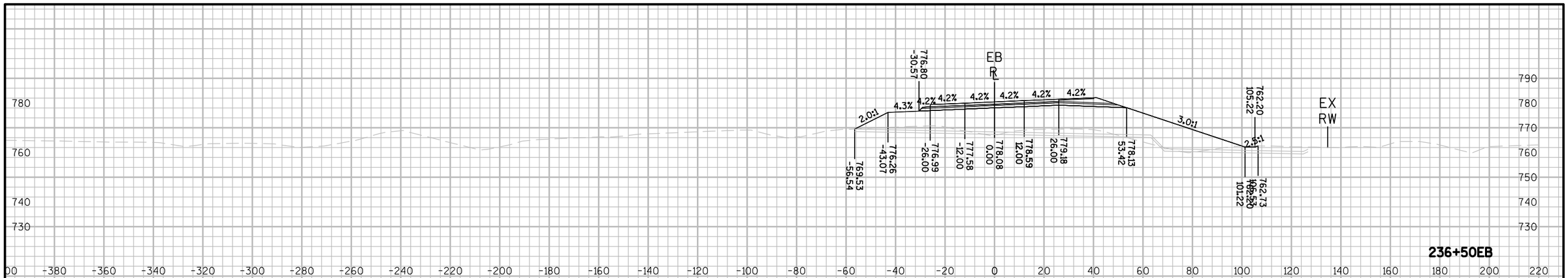
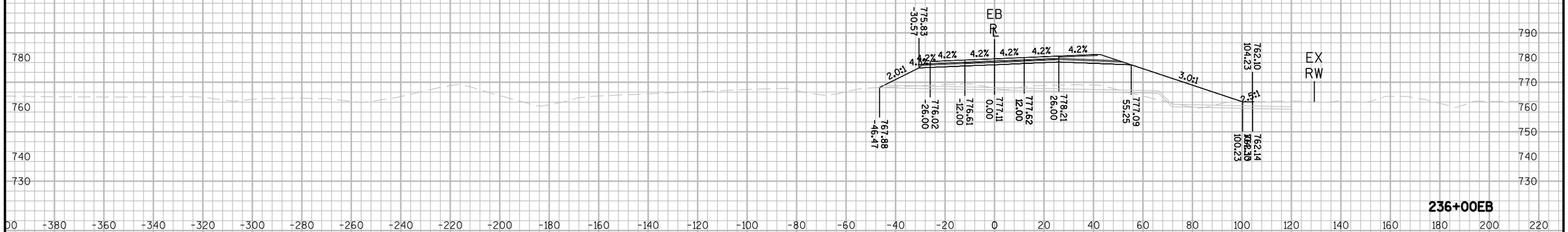
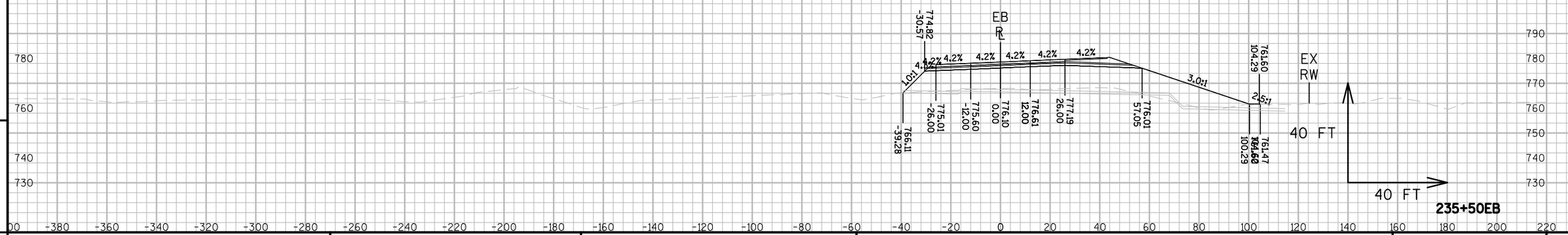
PROJECT NO: 1517-75-72	HWY: STH 441/USH 10	COUNTY: WINNEBAGO	CROSS SECTIONS: USH 10 EASTBOUND (EB)-STAGE 1A	SHEET 583	E

FILE NAME : S:\PDS\C3D\WIS441\15177570_72_77_85\SHEETSPLAN\1517-75-72\090200-XS\NE-15177572-090201-XS-EB-1A.DWG
LAYOUT NAME - 090216-XS-EB-1A
PLOT DATE : 2/9/2017 1:41 PM
PLOT BY : VICKMAN, GARRETT T PLOT NAME :
PLOT SCALE : 1 IN:40 FT
WISDOT/CADDS SHEET 49







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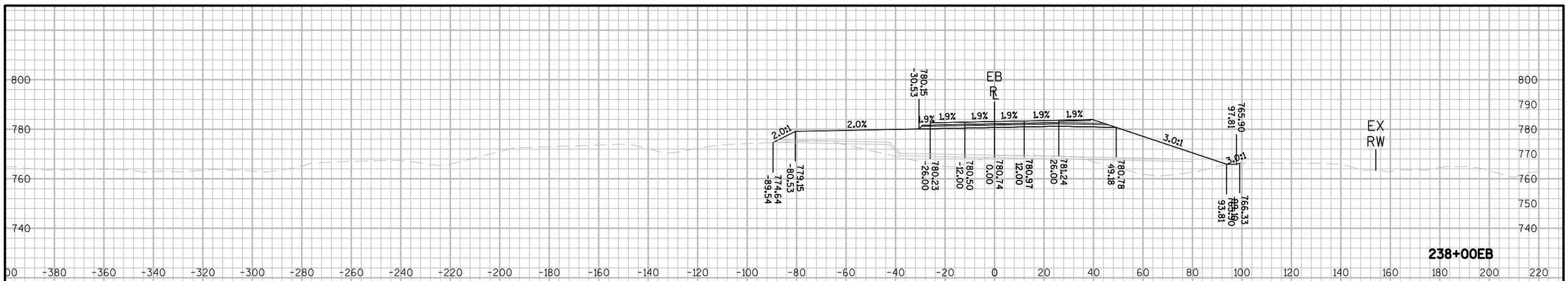
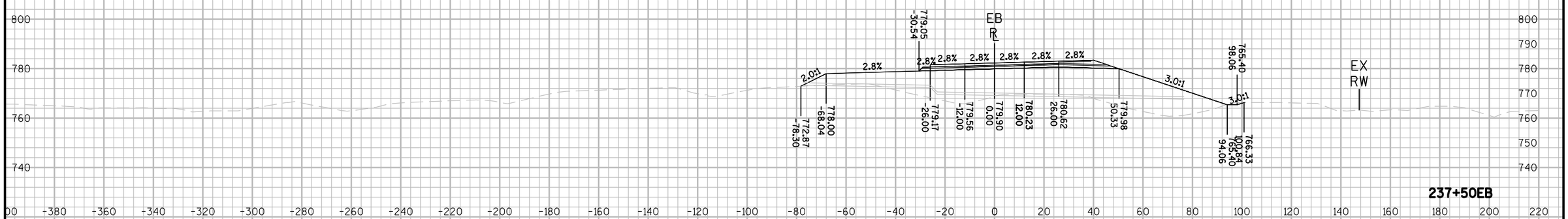
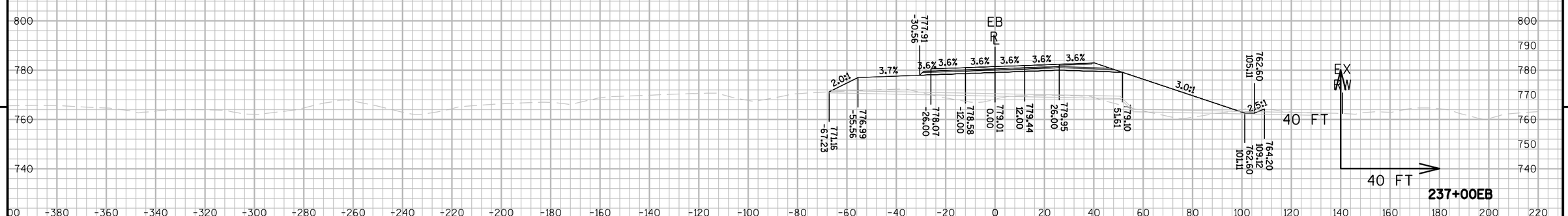
PROJECT NO: 1517-75-72	HWY: STH 441/USH 10	COUNTY: WINNEBAGO	CROSS SECTIONS: USH 10 EASTBOUND (EB)-STAGE 1A	SHEET 584	E

FILE NAME : S:\PDS\C3D\WIS441\15177570_72_77_85\SHEETSPLAN\1517-75-72\090200-XS\NE-15177572-090201-XS-EB-1A.DWG
LAYOUT NAME - 090217-XS-EB-1A
PLOT DATE : 2/9/2017 1:41 PM
PLOT BY : VICKMAN, GARRETT T PLOT NAME :
PLOT SCALE : 1 IN:40 FT





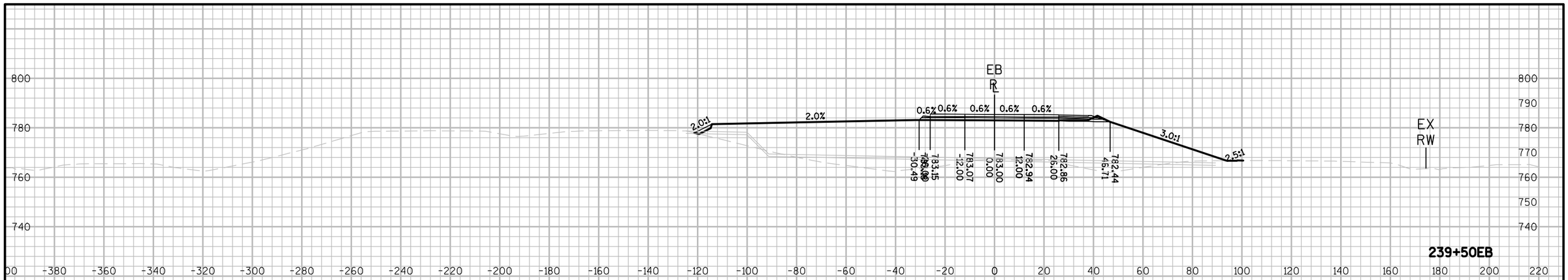


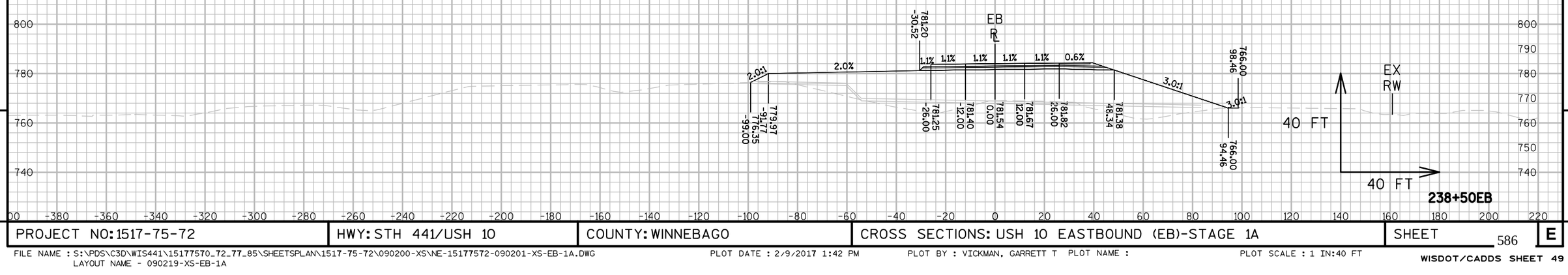
PROJECT NO: 1517-75-72	HWY: STH 441/USH 10	COUNTY: WINNEBAGO	CROSS SECTIONS: USH 10 EASTBOUND (EB)-STAGE 1A	SHEET 585 E

FILE NAME : S:\PDS\C3D\WIS441\151775T0_72_77_85\SHEETSPLAN\1517-75-72\090200-XS\NE-151775T2-090201-XS-EB-1A.DWG
LAYOUT NAME - 090218-XS-EB-1A

PLOT DATE : 2/9/2017 1:42 PM PLOT BY : VICKMAN, GARRETT T PLOT NAME : PLOT SCALE : 1 IN:40 FT

WISDOT/CADDS SHEET 49





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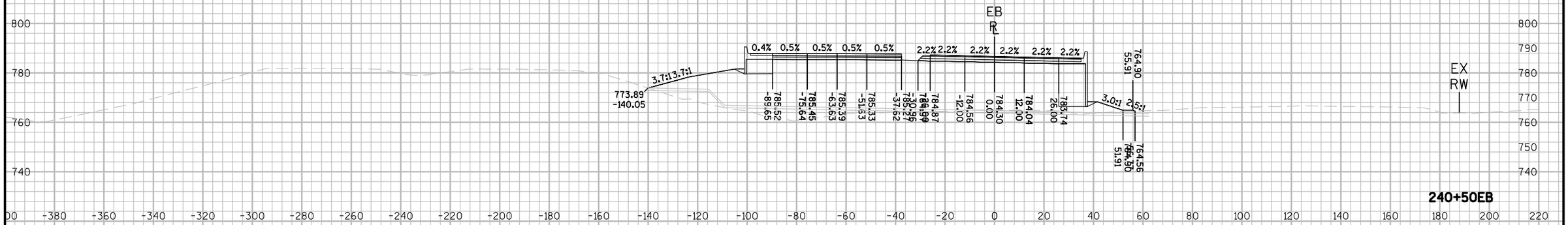
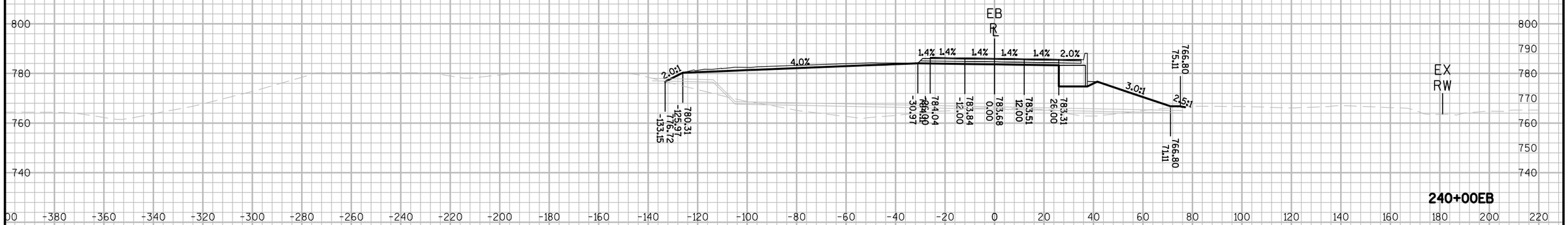
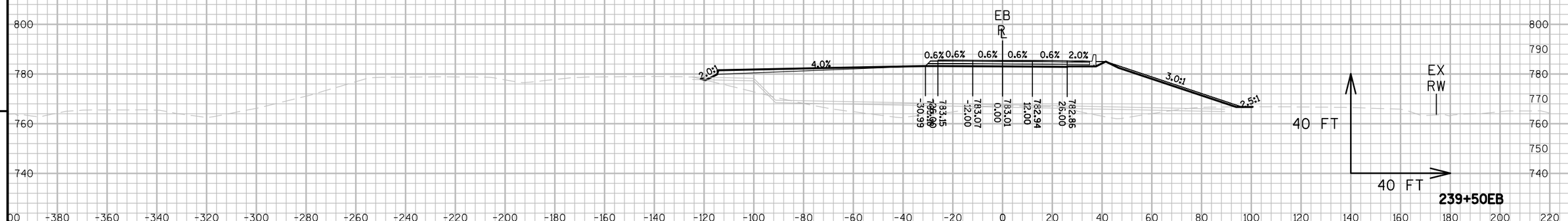
PROJECT NO: 1517-75-72	HWY: STH 441/USH 10	COUNTY: WINNEBAGO	CROSS SECTIONS: USH 10 EASTBOUND (EB)-STAGE 1A	SHEET 586	E





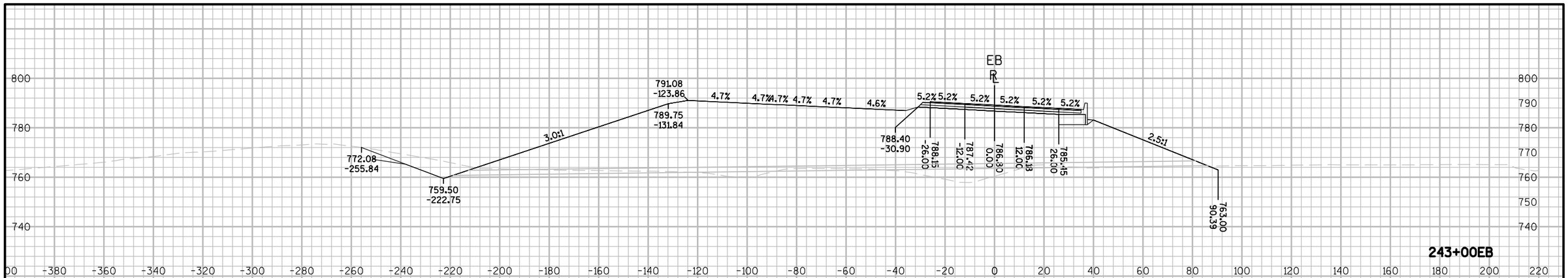


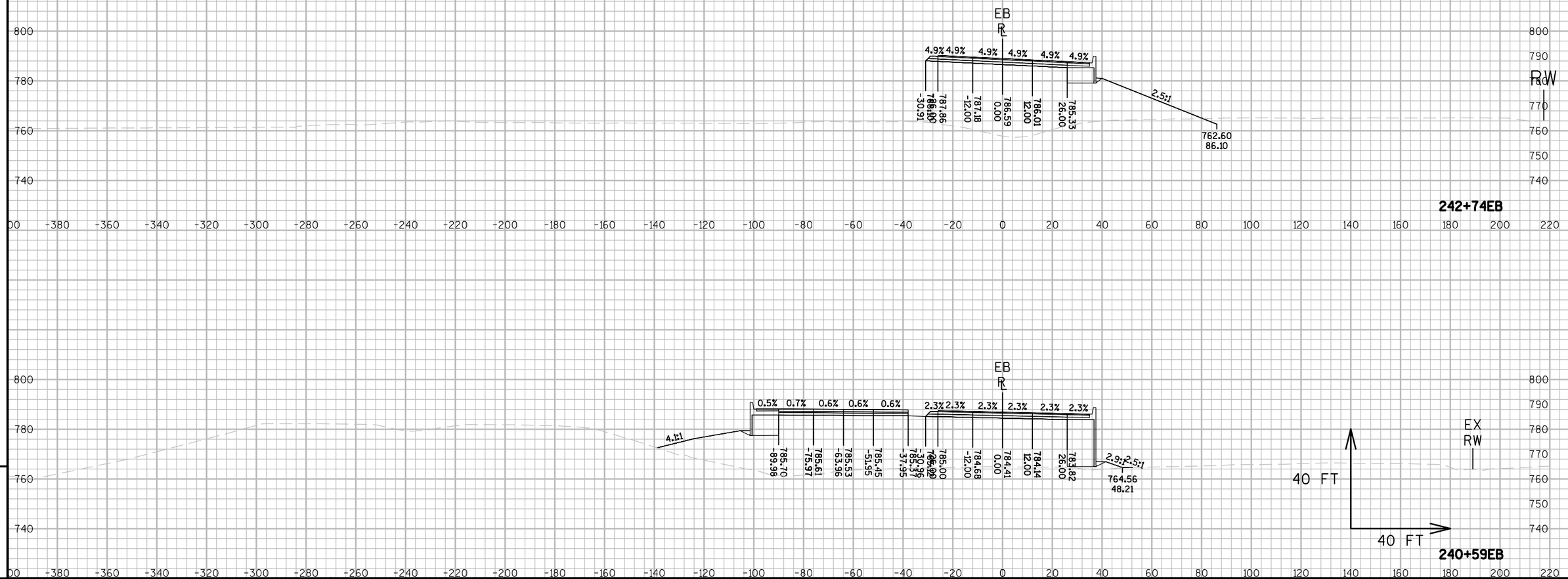
PROJECT NO: 1517-75-72	HWY: STH 441/USH 10	COUNTY: WINNEBAGO	CROSS SECTIONS: USH 10 EASTBOUND (EB)-STAGE 1A	SHEET 587	E

FILE NAME : S:\PDS\C3D\WIS441\15177570_72_77_85\SHEETSPLAN\1517-75-72\090200-XS\NE-15177572-090201-XS-EB-1A.DWG
LAYOUT NAME - 090220-XS-EB-1A

PLOT DATE : 2/9/2017 1:42 PM PLOT BY : VICKMAN, GARRETT T PLOT NAME : PLOT SCALE : 1 IN:40 FT

WISDOT/CADDS SHEET 49





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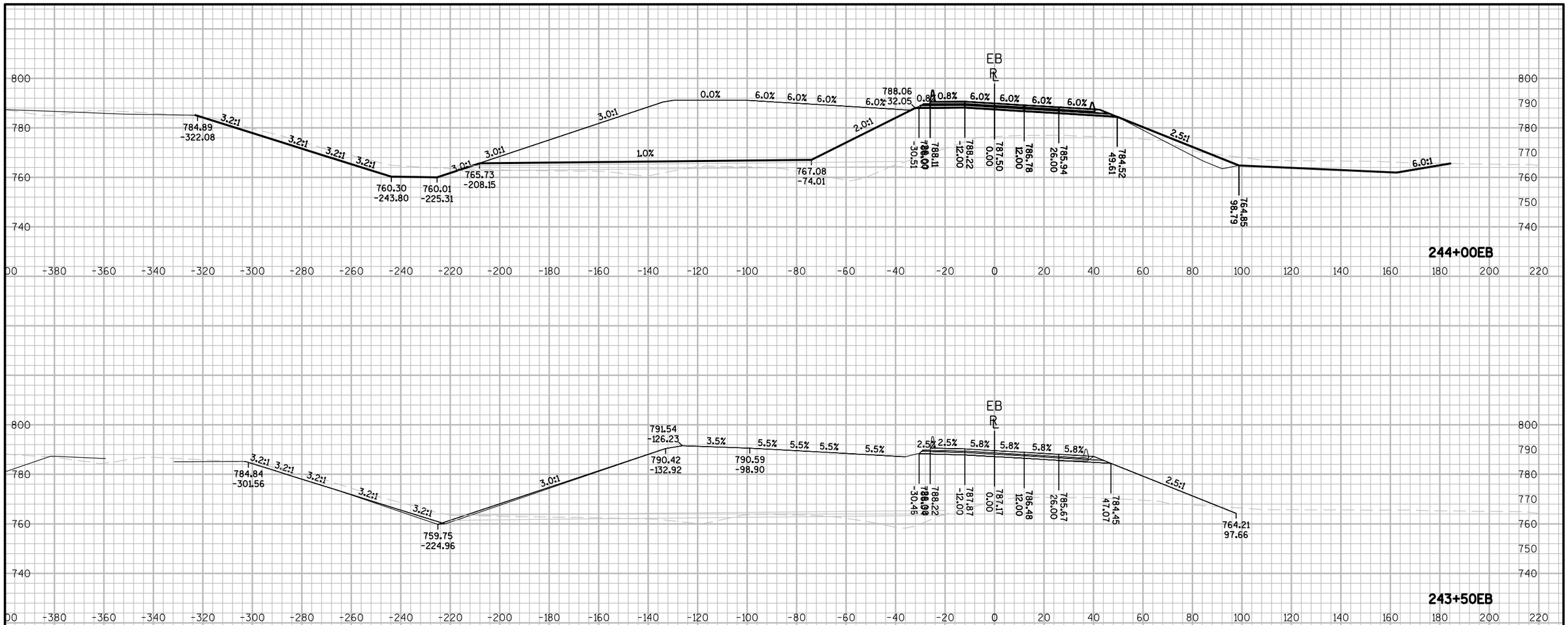
PROJECT NO: 1517-75-72	HWY: STH 441/USH 10	COUNTY: WINNEBAGO	CROSS SECTIONS: USH 10 EASTBOUND (EB)-STAGE 1A	SHEET 588	E



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PROJECT NO: 1517-75-72	HWY: STH 441/USH 10	COUNTY: WINNEBAGO	CROSS SECTIONS: USH 10 EASTBOUND (EB)-STAGE 1A	SHEET 589	E

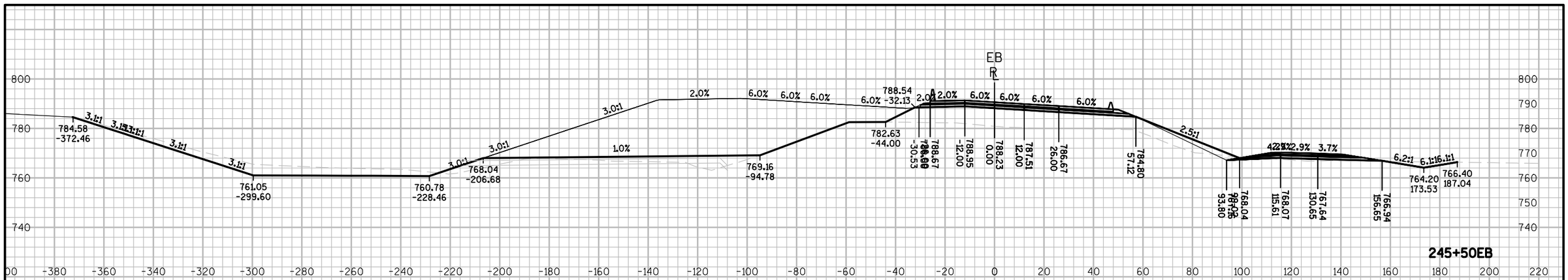
FILE NAME : S:\PDS\C3D\WIS441\15177570_72_77_85\SHEETSPLAN\1517-75-72\090200-XS\NE-15177572-090201-XS-EB-1A.DWG
LAYOUT NAME - 090222-XS-EB-1A

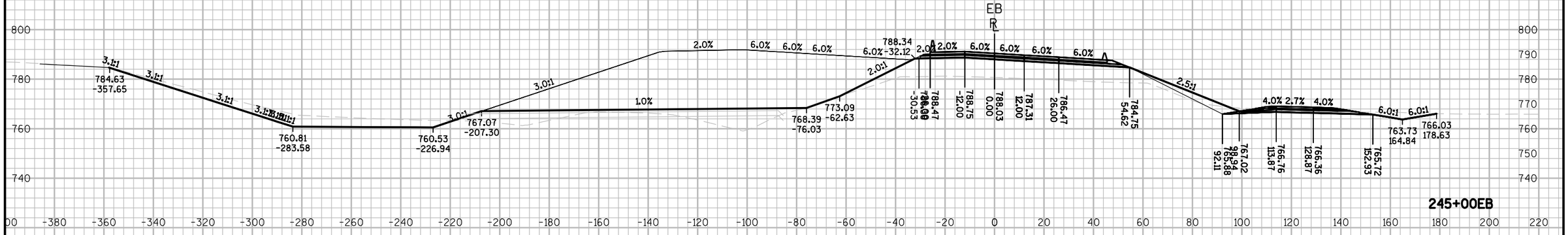
PLOT DATE : 2/9/2017 1:42 PM

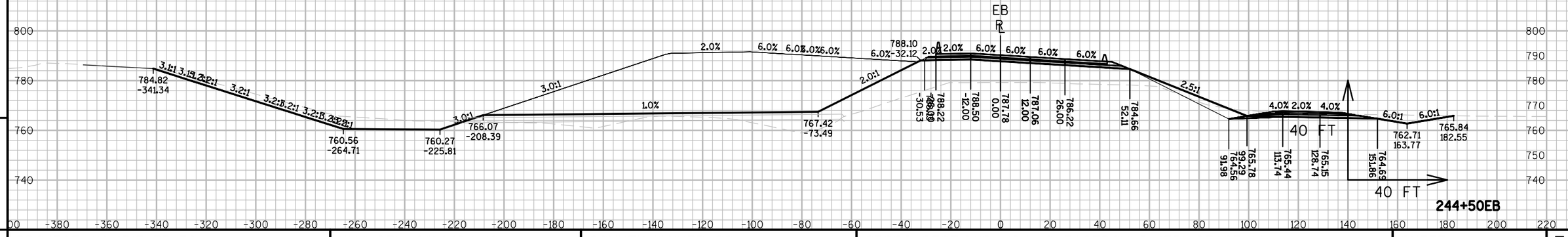
PLOT BY : VICKMAN, GARRETT T PLOT NAME :

PLOT SCALE : 1 IN:40 FT

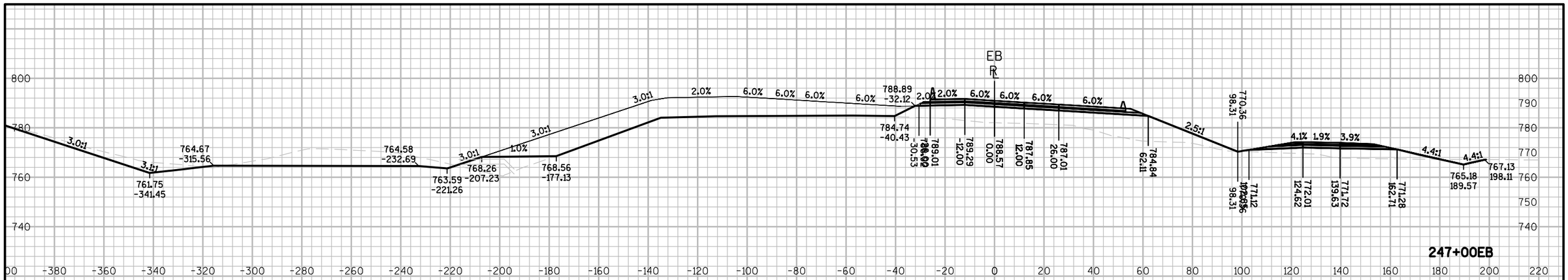
WISDOT/CADDS SHEET 49

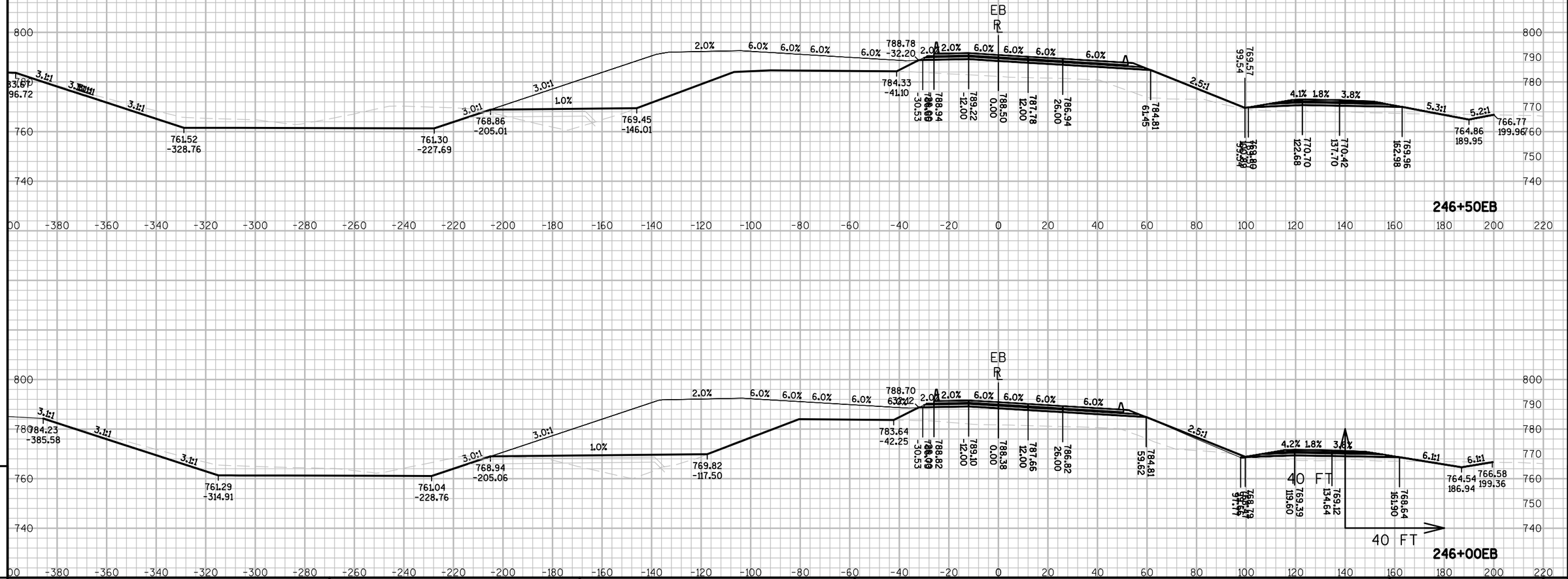




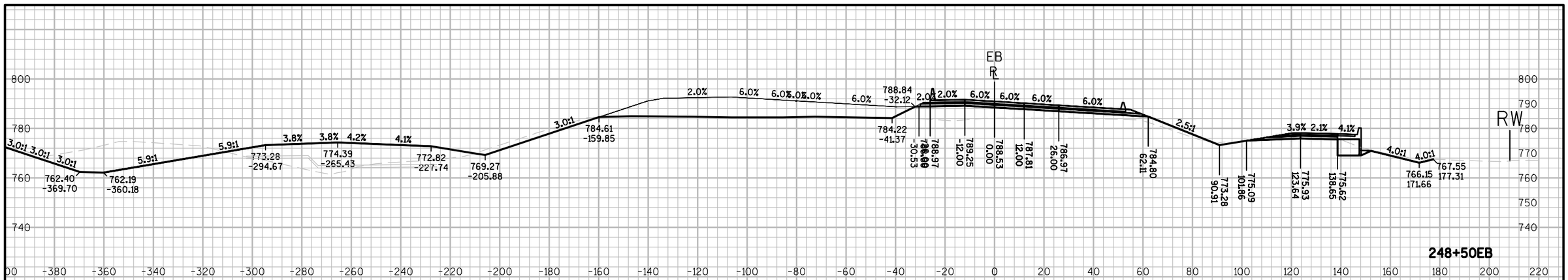


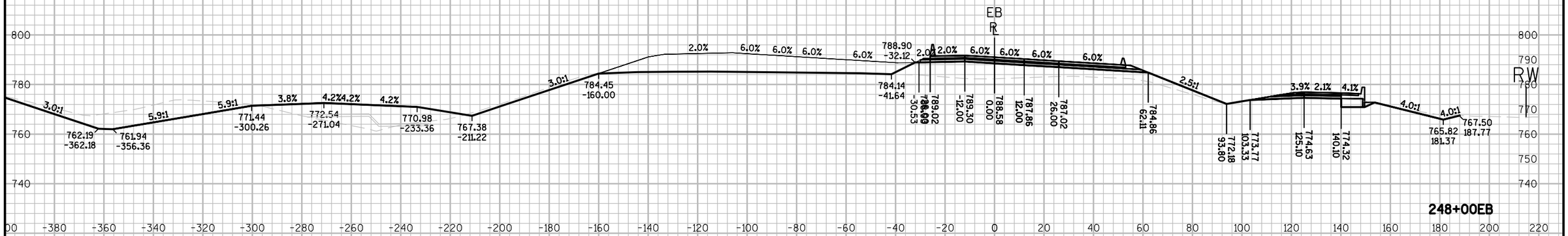
PROJECT NO: 1517-75-72	HWY: STH 441/USH 10	COUNTY: WINNEBAGO	CROSS SECTIONS: USH 10 EASTBOUND (EB)-STAGE 1A	SHEET 590	E

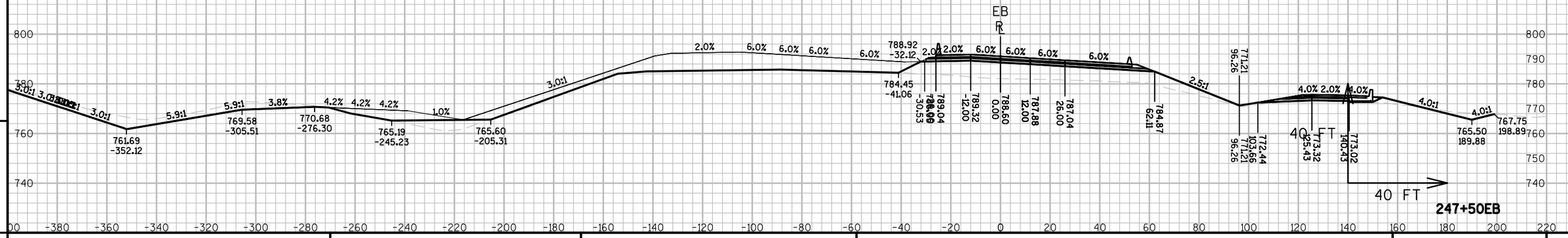




9	PROJECT NO: 1517-75-72	HWY: STH 441/USH 10	COUNTY: WINNEBAGO	CROSS SECTIONS: USH 10 EASTBOUND (EB)-STAGE 1A	SHEET 591 E







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PROJECT NO: 1517-75-72	HWY: STH 441/USH 10	COUNTY: WINNEBAGO	CROSS SECTIONS: USH 10 EASTBOUND (EB)-STAGE 1A	SHEET 592	E

9	PROJECT NO: 1517-75-72	HWY: STH 441/USH 10	COUNTY: WINNEBAGO	CROSS SECTIONS: USH 10 EASTBOUND (EB)-STAGE 1A	SHEET 593 E

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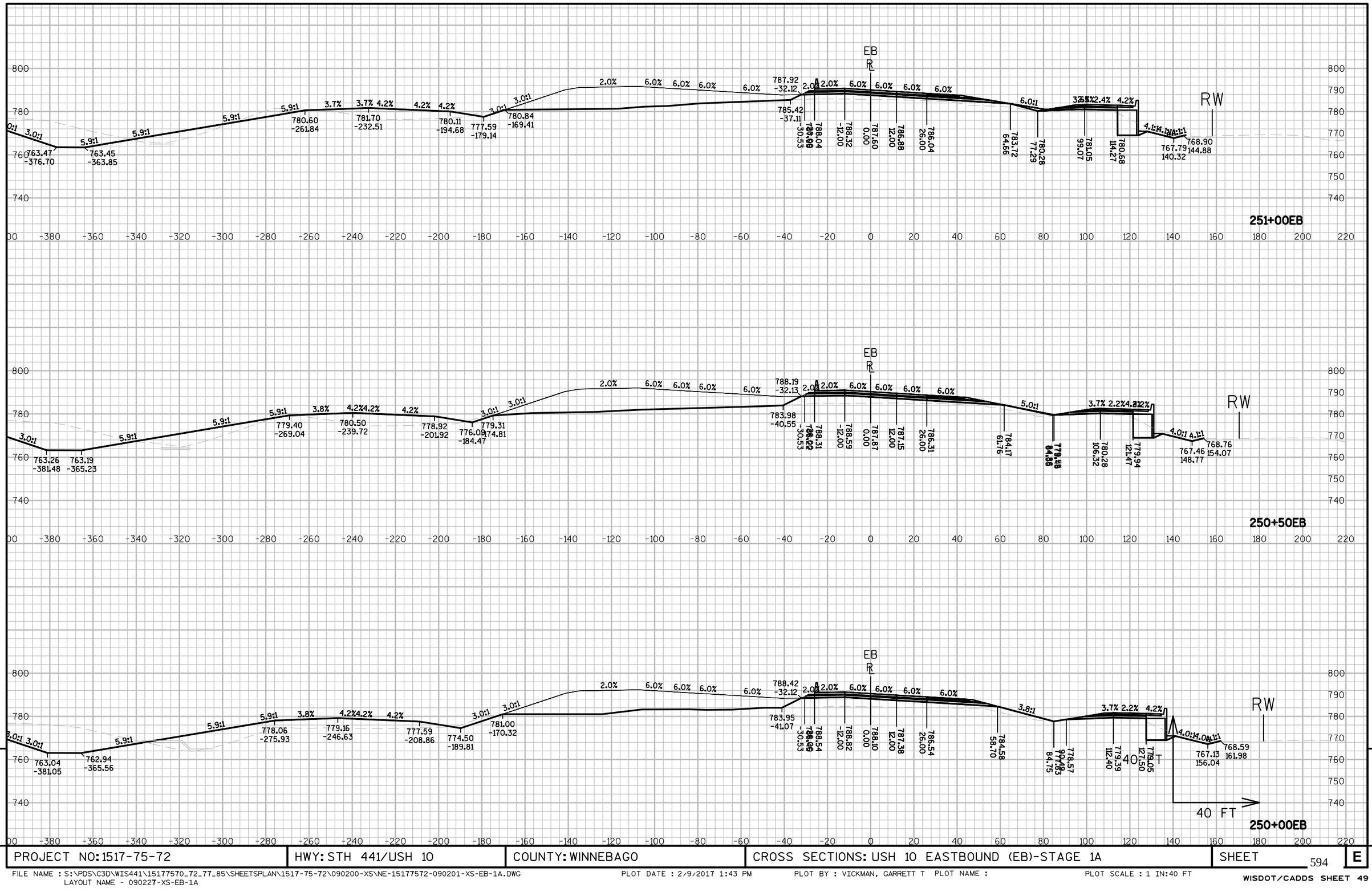
FILE NAME : S:\PDS\C3D\WIS441\15177570_72_77_85\SHEETSPLAN\1517-75-72\090200-XS\NE-15177572-090201-XS-EB-1A.DWG
LAYOUT NAME - 090226-XS-EB-1A
PLOT DATE : 2/9/2017 1:43 PM
PLOT BY : VICKMAN, GARRETT T PLOT NAME :
PLOT SCALE : 1 IN:40 FT

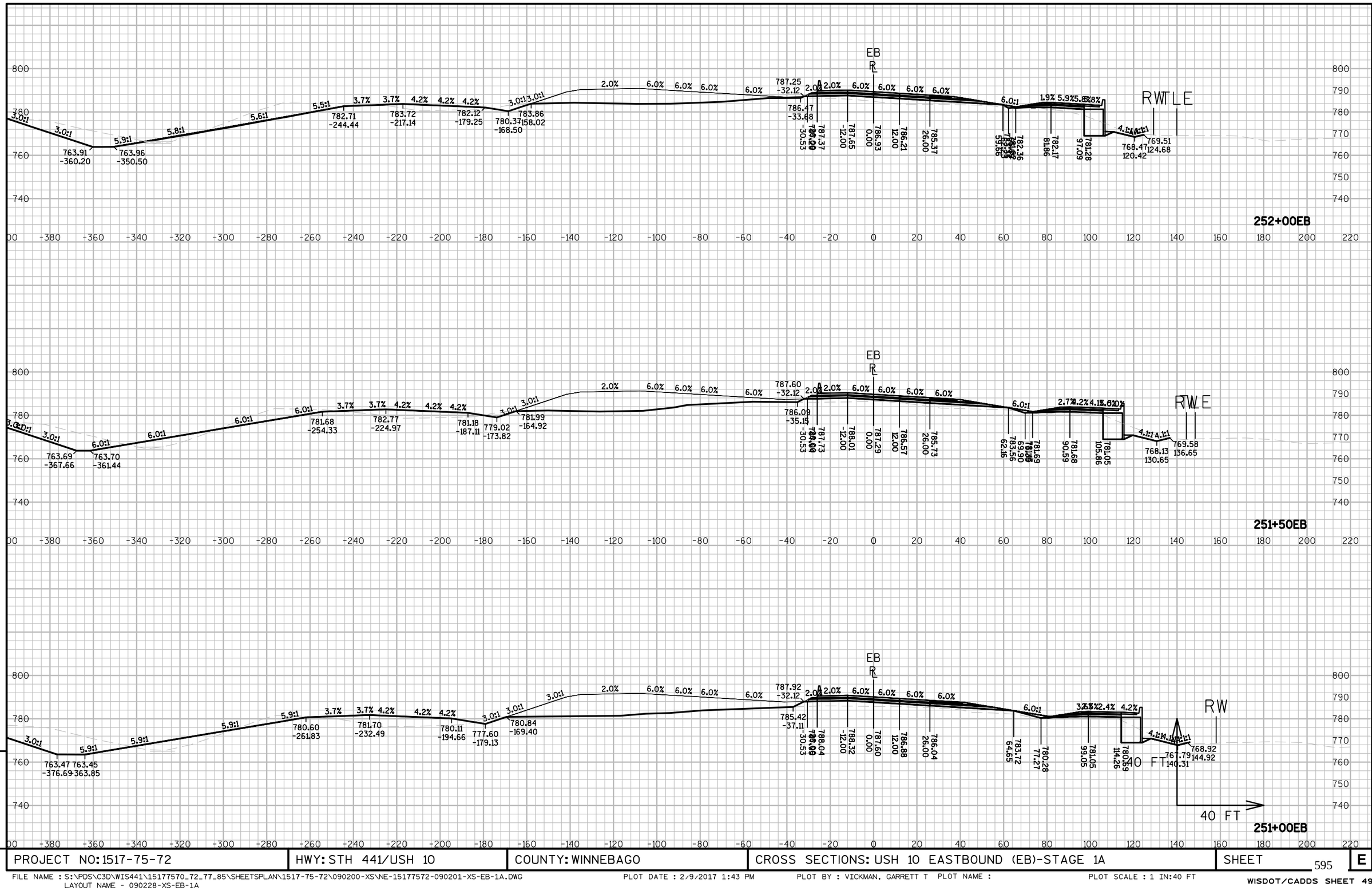


PROJECT NO: 1517-75-72	HWY: STH 441/USH 10	COUNTY: WINNEBAGO	CROSS SECTIONS: USH 10 EASTBOUND (EB)-STAGE 1A	SHEET 594	E

FILE NAME : S:\PDS\C3D\WIS441\15177570_72_77_85\SHEETSPLAN\1517-75-72\090200-XS\NE-15177572-090201-XS-EB-1A.DWG
LAYOUT NAME - 090227-XS-EB-1A

PLOT DATE : 2/9/2017 1:43 PM PLOT BY : VICKMAN, GARRETT T PLOT NAME : PLOT SCALE : 1 IN:40 FT

WISDOT/CADDS SHEET 49



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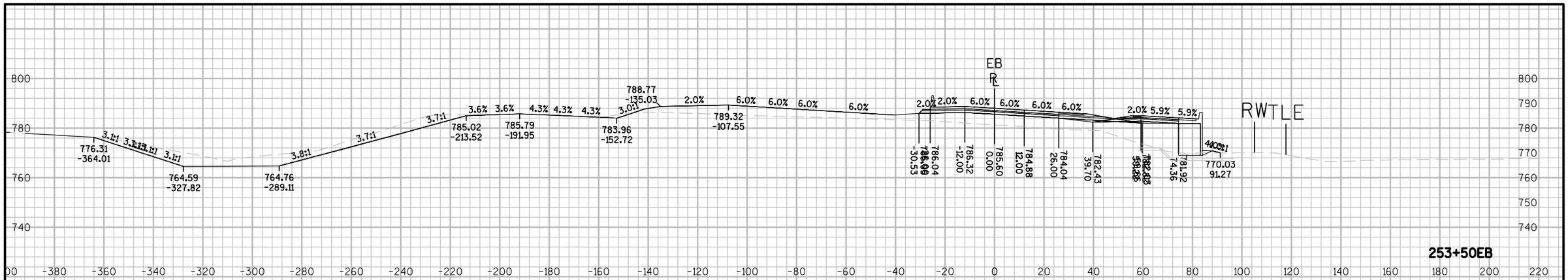
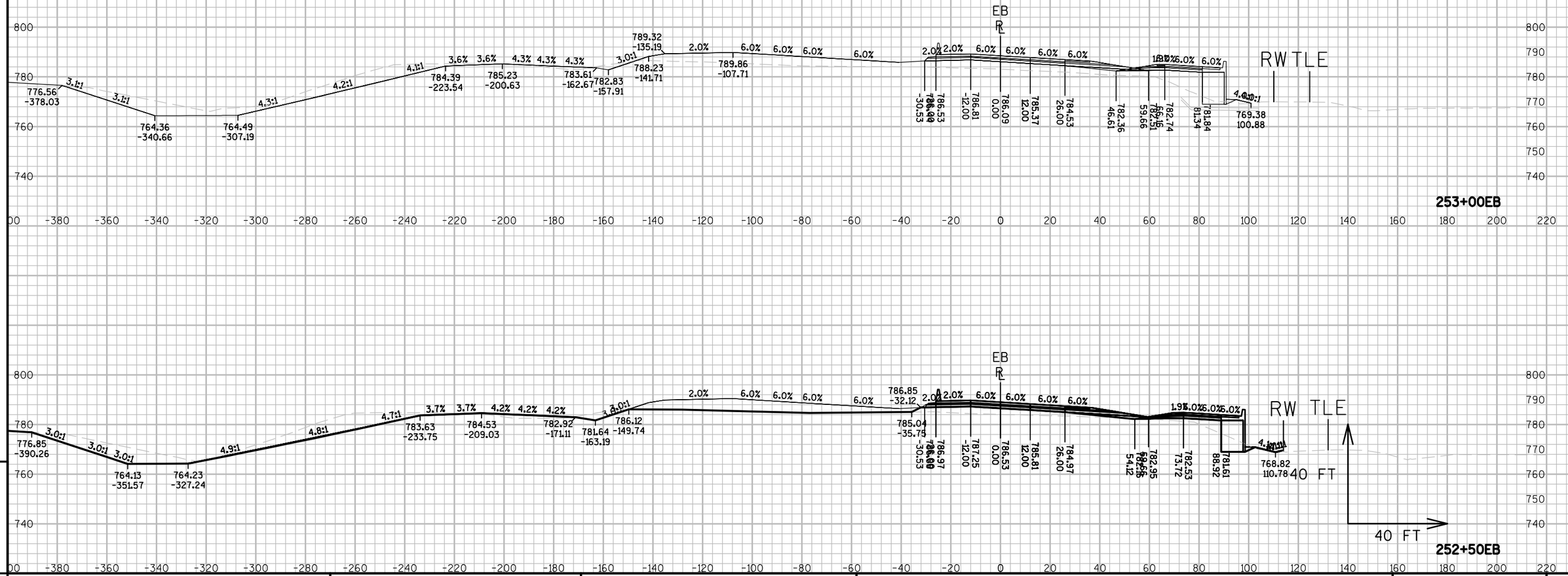
PROJECT NO: 1517-75-72	HWY: STH 441/USH 10	COUNTY: WINNEBAGO	CROSS SECTIONS: USH 10 EASTBOUND (EB)-STAGE 1A	SHEET 595	E

FILE NAME : S:\PDS\C3D\WIS441\15177570_72_77_85\SHEETSPLAN\1517-75-72\090200-XS\NE-15177572-090201-XS-EB-1A.DWG
LAYOUT NAME - 090228-XS-EB-1A
PLOT DATE : 2/9/2017 1:43 PM
PLOT BY : VICKMAN, GARRETT T PLOT NAME :
PLOT SCALE : 1 IN:40 FT





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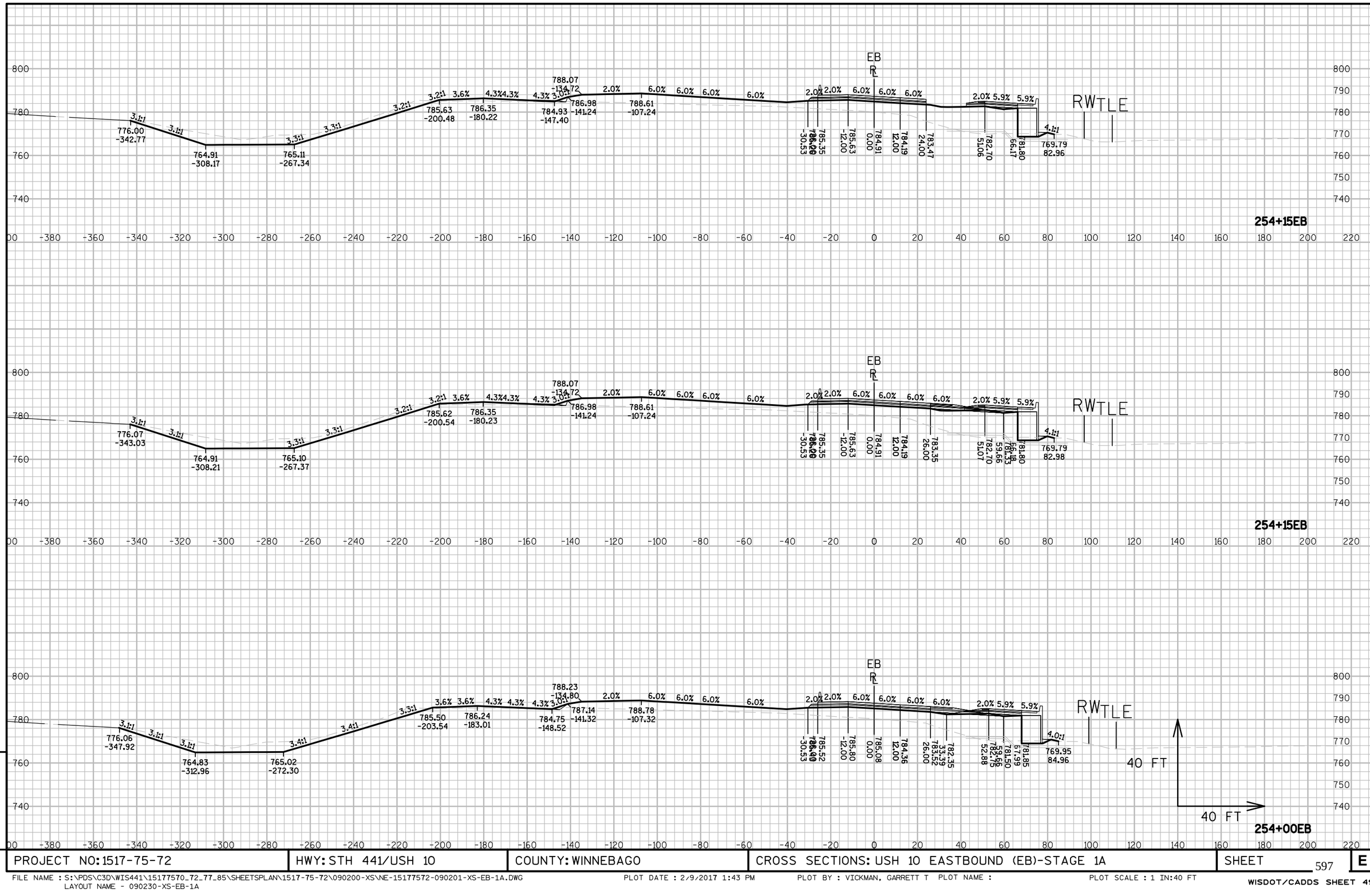
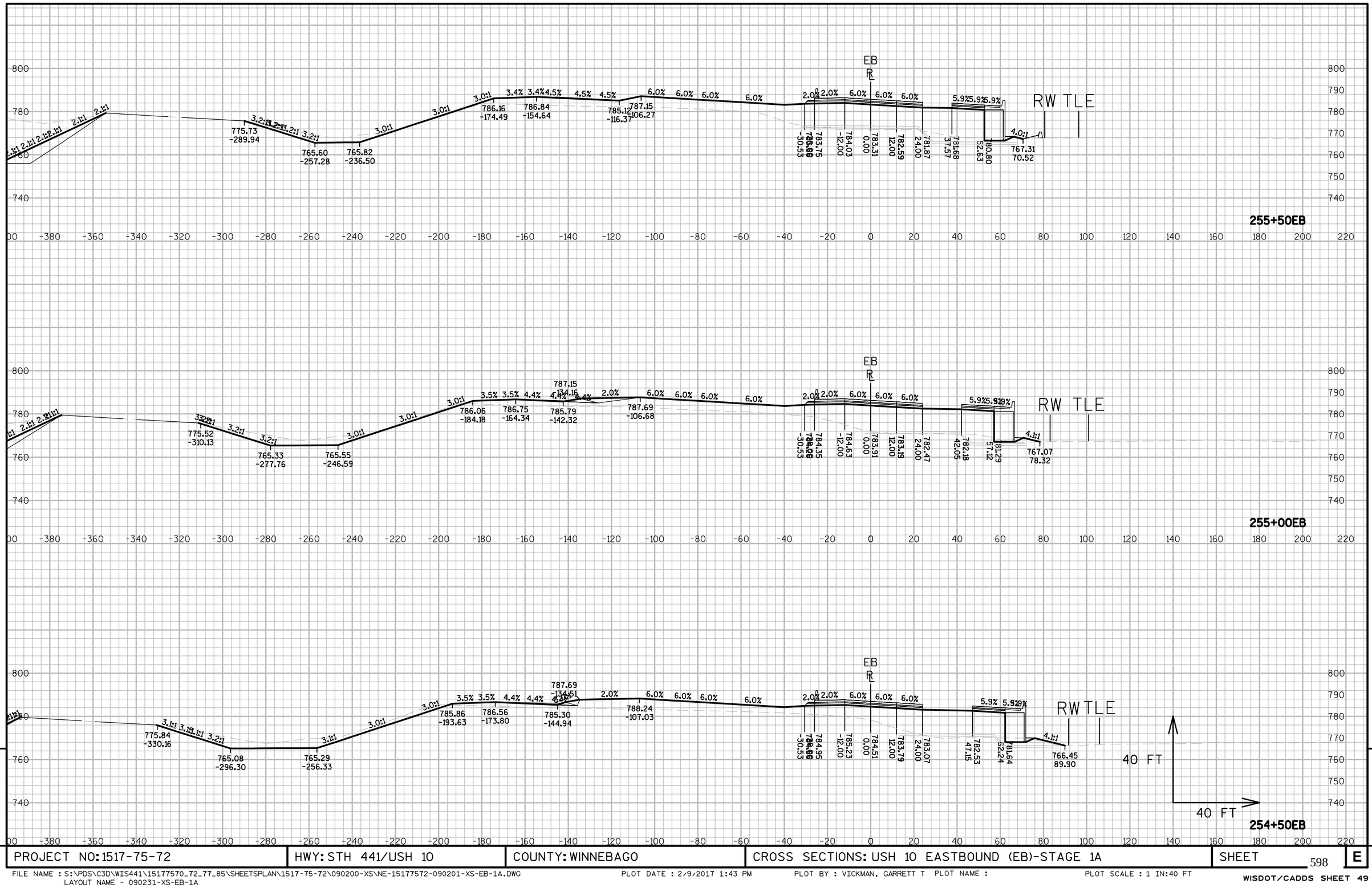
PROJECT NO: 1517-75-72	HWY: STH 441/USH 10	COUNTY: WINNEBAGO	CROSS SECTIONS: USH 10 EASTBOUND (EB)-STAGE 1A	SHEET 596	E

FILE NAME : S:\PDS\C3D\WIS441\15177570_72_77_85\SHEETSPLAN\1517-75-72\090200-XS\NE-15177572-090201-XS-EB-1A.DWG
LAYOUT NAME - 090229-XS-EB-1A
PLOT DATE : 2/9/2017 1:43 PM
PLOT BY : VICKMAN, GARRETT T PLOT NAME :
PLOT SCALE : 1 IN:40 FT
WISDOT/CADDS SHEET 49

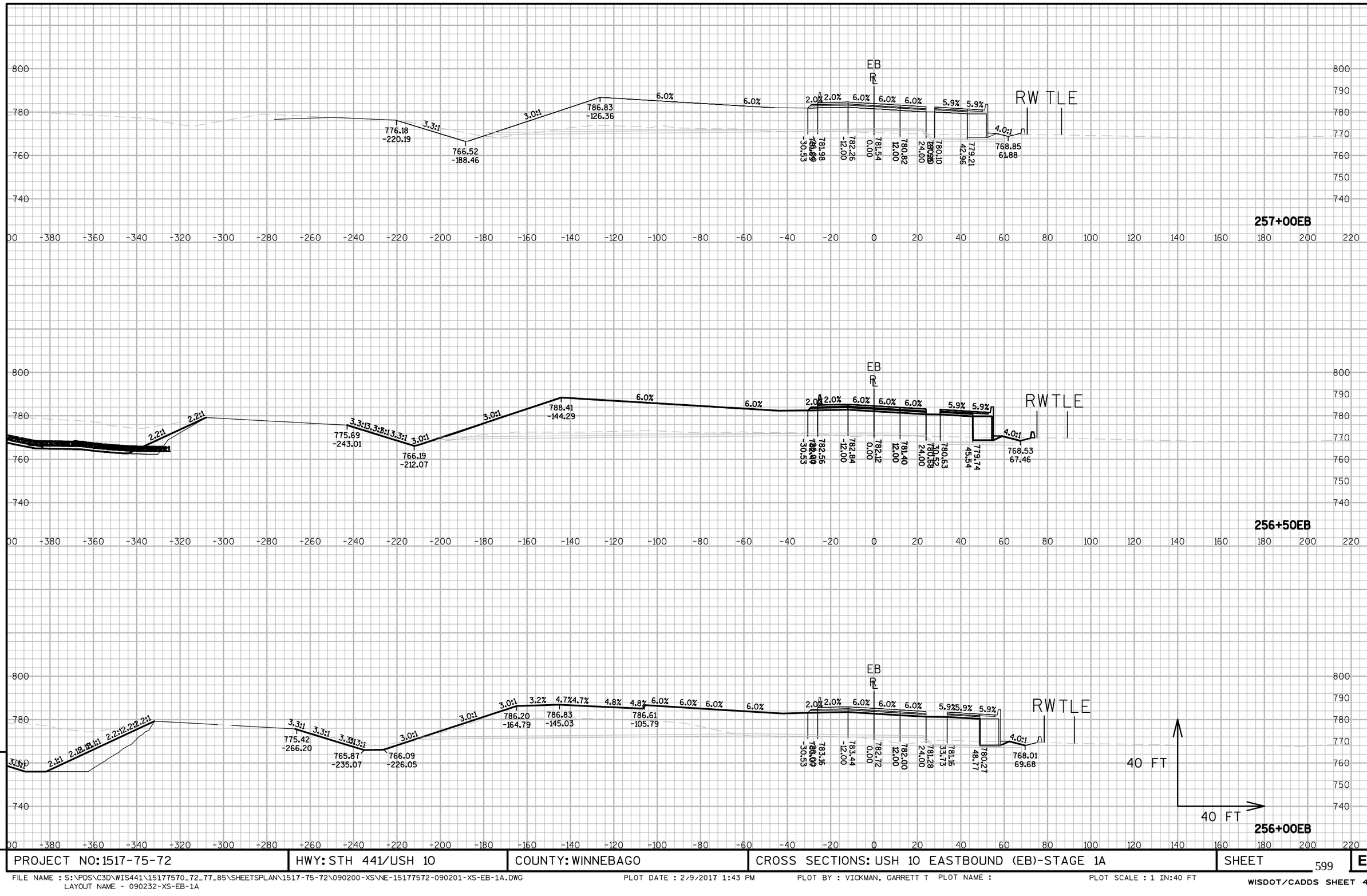

EB
RWTLE
776.00
-342.77
764.91
-308.17
765.11
-267.34
785.63
-200.48
786.35
-180.22
788.07
-134.72
784.93
-147.40
786.98
-141.24
788.61
-107.24
769.79
82.96
254+15EB
776.07
-343.03
764.91
-308.21
765.10
-267.37
785.62
-200.54
786.35
-180.23
784.91
0.00
784.19
12.00
783.35
26.00
782.70
51.07
781.80
66.18
781.33
59.66
769.79
82.98
254+15EB
776.06
-347.92
764.83
-312.96
765.02
-272.30
785.50
-203.54
786.24
-183.01
784.75
-148.52
787.14
-141.32
788.78
-107.32
788.23
-134.80
785.08
0.00
784.36
12.00
783.52
26.00
783.39
33.39
782.35
782.75
52.88
781.85
67.99
781.50
769.95
84.96
40 FT
40 FT
254+00EB

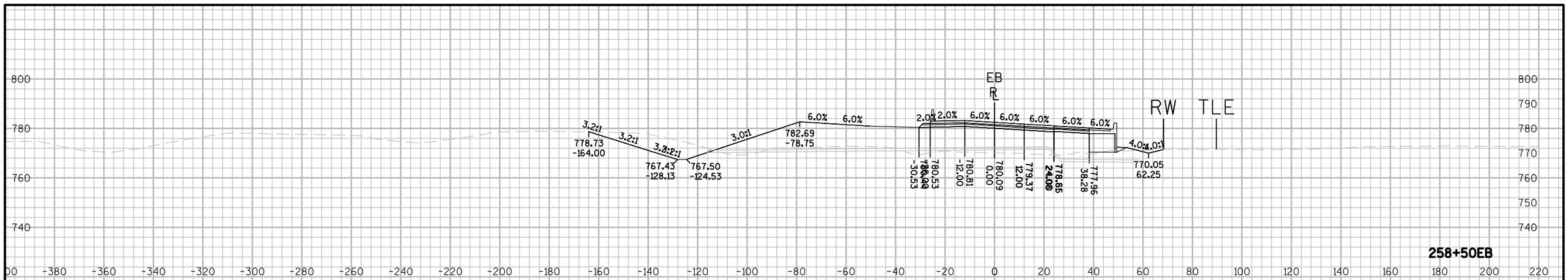


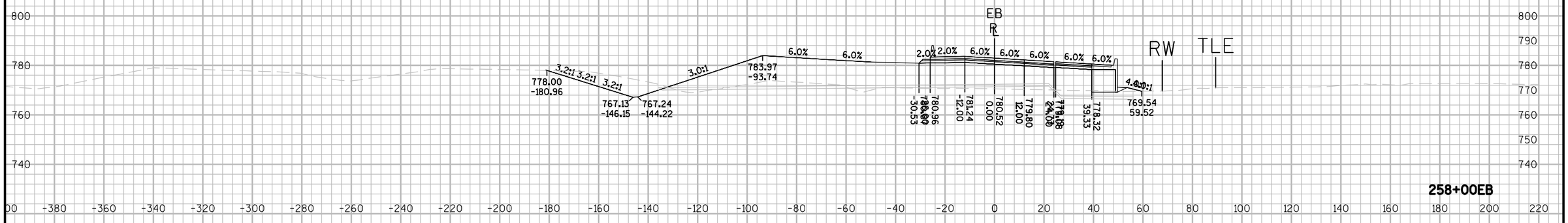
PROJECT NO: 1517-75-72	HWY: STH 441/USH 10	COUNTY: WINNEBAGO	CROSS SECTIONS: USH 10 EASTBOUND (EB)-STAGE 1A	SHEET 598 E

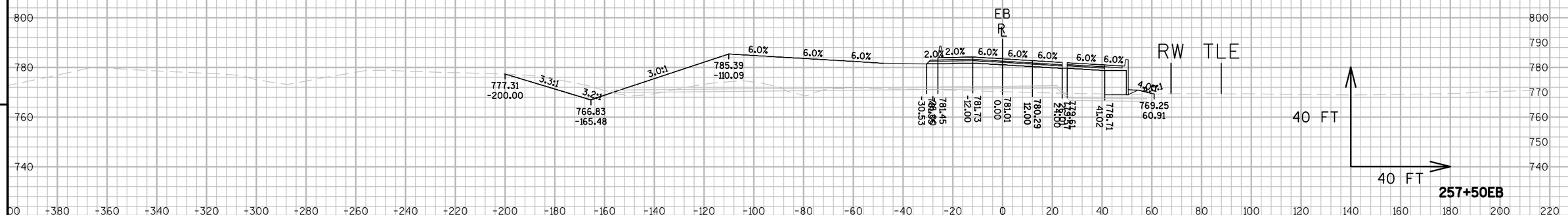
FILE NAME : S:\PDS\C3D\WIS441\15177570_72_77_85\SHEETSPLAN\1517-75-72\090200-XS\NE-15177572-090201-XS-EB-1A.DWG
LAYOUT NAME - 090231-XS-EB-1A

PLOT DATE : 2/9/2017 1:43 PM PLOT BY : VICKMAN, GARRETT T PLOT NAME : PLOT SCALE : 1 IN:40 FT


EB
RW TLE
776.18
-220.19
766.52
-188.46
786.83
-126.36
6.0%
3.3:1
3.0:1
2.0%
6.0%
5.9%
4.0:1
768.85
61.88
779.21
42.96
780.10
24.00
781.54
0.00
782.26
-12.00
781.98
-30.53
780.82
12.00
257+00EB
775.69
-243.01
766.19
-212.07
788.41
-144.29
2.2:1
782.56
782.84
782.12
781.40
780.63
779.74
45.54
768.53
67.46
256+50EB
775.42
-266.20
765.87
-235.07
766.09
-226.05
786.20
-164.79
786.83
-145.03
786.61
-105.79
4.7%
4.8%
783.16
783.44
782.72
782.00
781.28
781.16
33.73
780.27
48.77
768.01
69.68
40 FT
256+00EB
PROJECT NO: 1517-75-72
HWY: STH 441/USH 10
COUNTY: WINNEBAGO
CROSS SECTIONS: USH 10 EASTBOUND (EB)-STAGE 1A
SHEET
599
E
9
9
FILE NAME : S:\PDS\C3D\WIS441\15177570_72_77_85\SHEETSPLAN\1517-75-72\090200-XS\NE-15177572-090201-XS-EB-1A.DWG
LAYOUT NAME - 090232-XS-EB-1A
PLOT DATE : 2/9/2017 1:43 PM
PLOT BY : VICKMAN, GARRETT T
PLOT NAME :
PLOT SCALE : 1 IN:40 FT
WISDOT/CADDS SHEET 49







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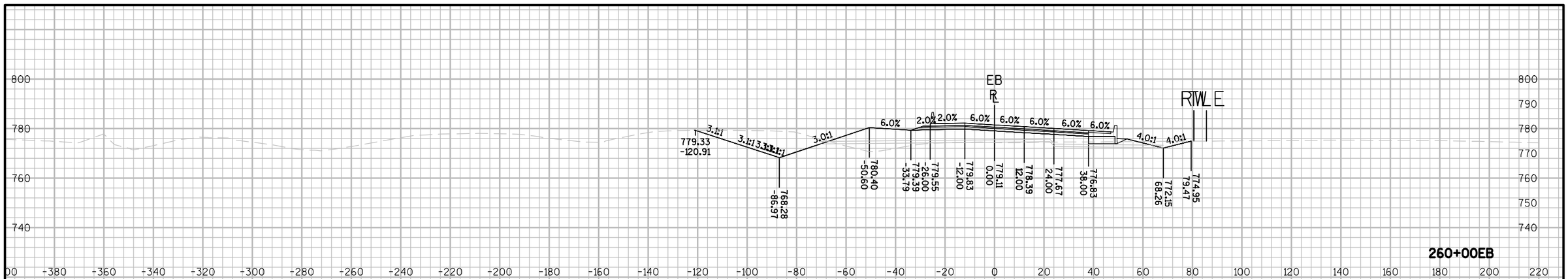
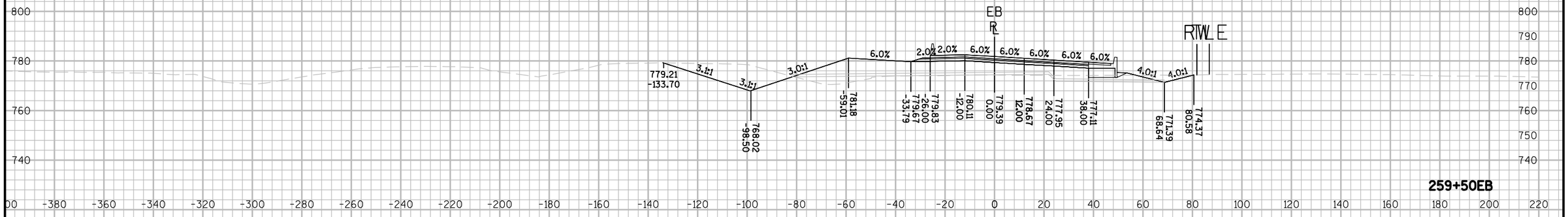
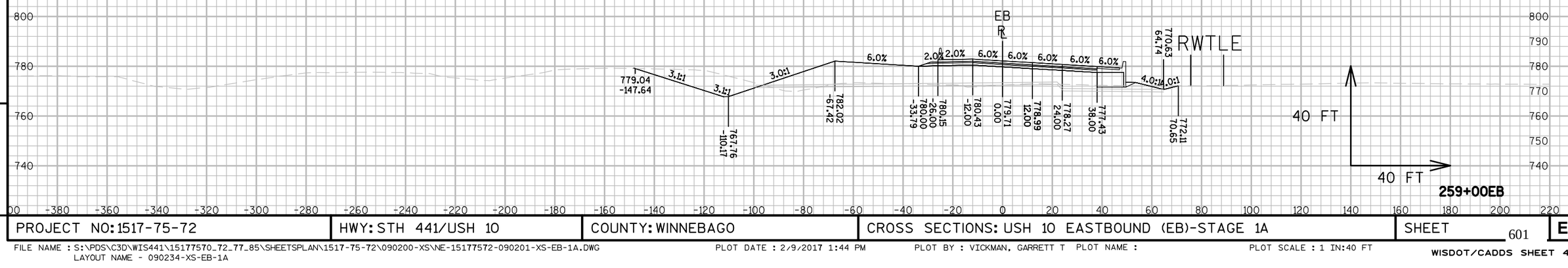
PROJECT NO: 1517-75-72	HWY: STH 441/USH 10	COUNTY: WINNEBAGO	CROSS SECTIONS: USH 10 EASTBOUND (EB)-STAGE 1A	SHEET 600	E

FILE NAME : S:\PDS\C3D\WIS441\15177570_72_77_85\SHEETSPLAN\1517-75-72\090200-XS\NE-15177572-090201-XS-EB-1A.DWG
LAYOUT NAME - 090233-XS-EB-1A

PLOT DATE : 2/9/2017 1:44 PM PLOT BY : VICKMAN, GARRETT T PLOT NAME : PLOT SCALE : 1 IN:40 FT







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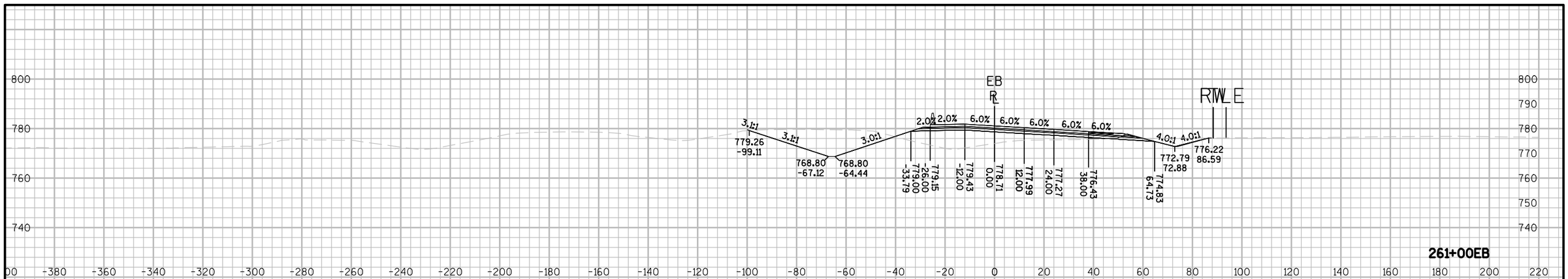
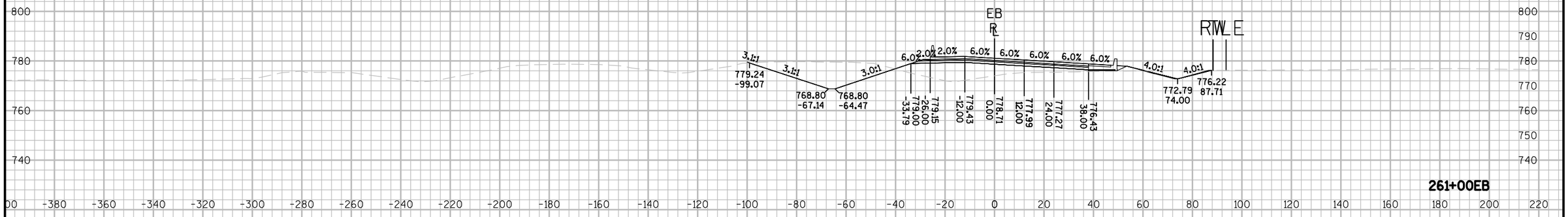
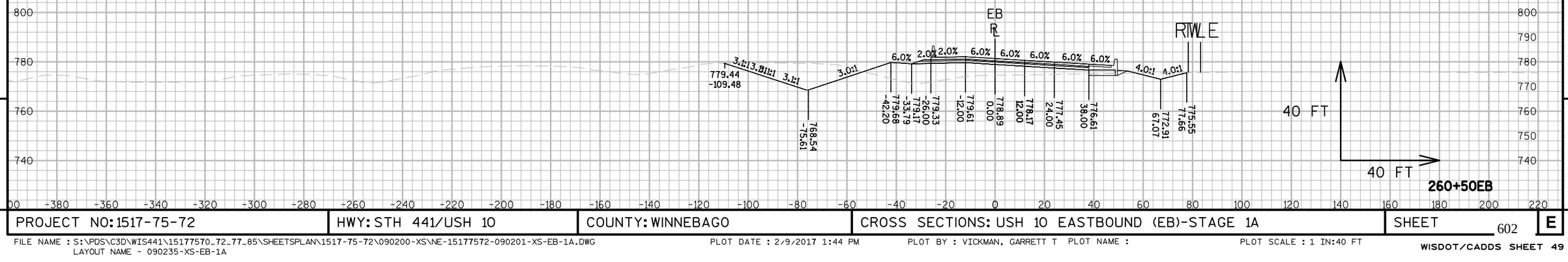
PROJECT NO: 1517-75-72	HWY: STH 441/USH 10	COUNTY: WINNEBAGO	CROSS SECTIONS: USH 10 EASTBOUND (EB)-STAGE 1A	SHEET 601	E

FILE NAME : S:\PDS\C3D\WIS441\15177570_72_77_85\SHEETSPLAN\1517-75-72\090200-XS\NE-15177572-090201-XS-EB-1A.DWG
LAYOUT NAME - 090234-XS-EB-1A

PLOT DATE : 2/9/2017 1:44 PM PLOT BY : VICKMAN, GARRETT T PLOT NAME : PLOT SCALE : 1 IN:40 FT







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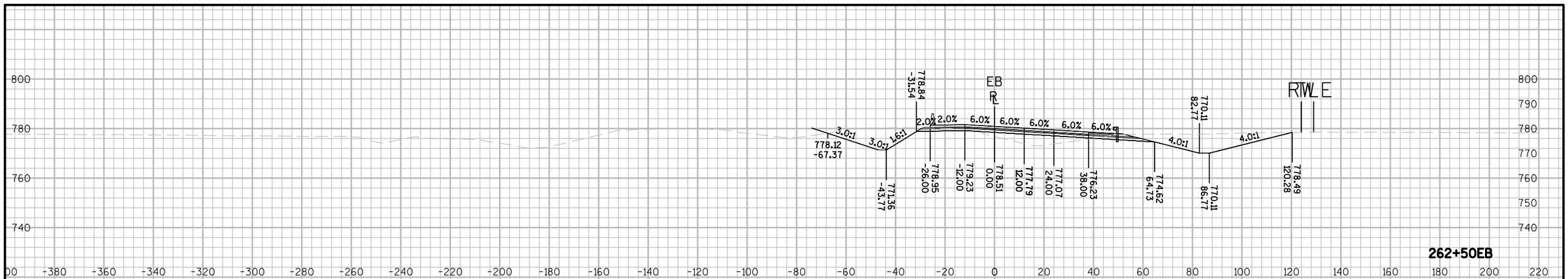
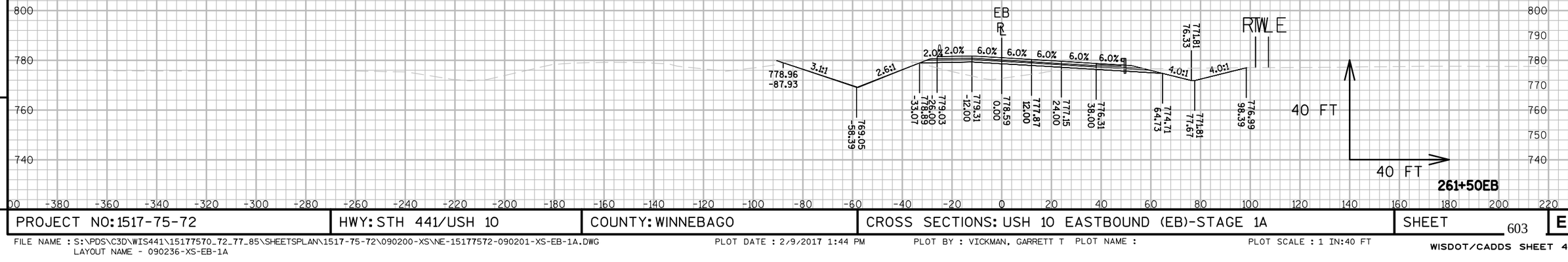
PROJECT NO: 1517-75-72	HWY: STH 441/USH 10	COUNTY: WINNEBAGO	CROSS SECTIONS: USH 10 EASTBOUND (EB)-STAGE 1A	SHEET 602	E

FILE NAME : S:\PDS\C3D\WIS441\15177570_72_77_85\SHEETSPLAN\1517-75-72\090200-XS\NE-15177572-090201-XS-EB-1A.DWG
LAYOUT NAME - 090235-XS-EB-1A
PLOT DATE : 2/9/2017 1:44 PM
PLOT BY : VICKMAN, GARRETT T PLOT NAME :
PLOT SCALE : 1 IN:40 FT





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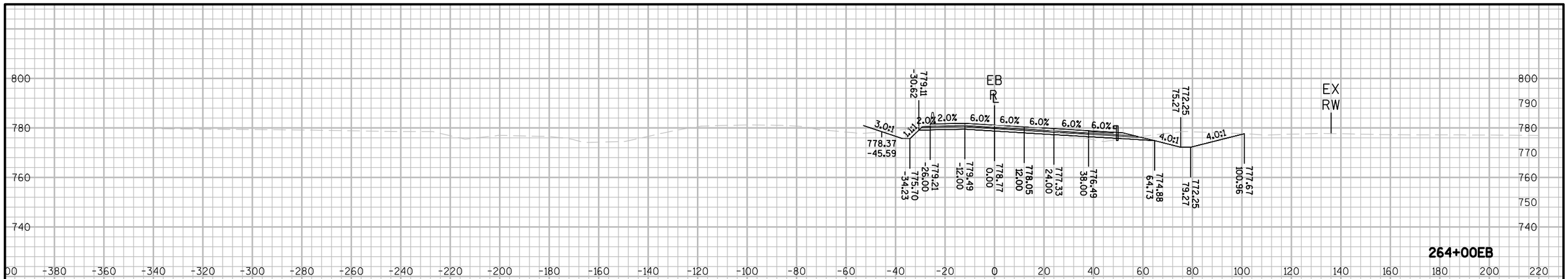
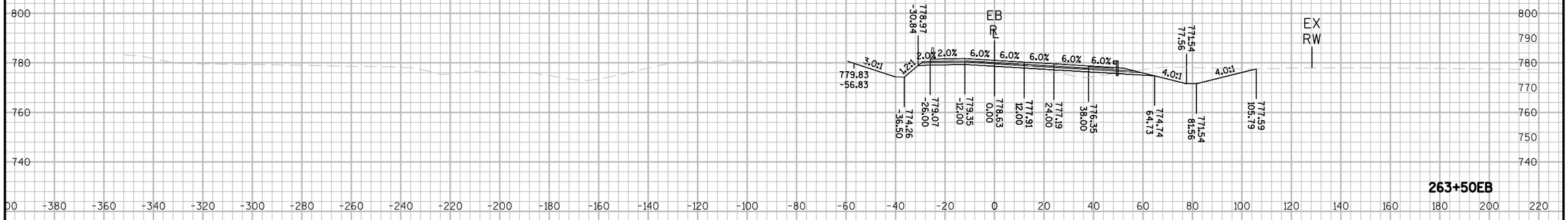
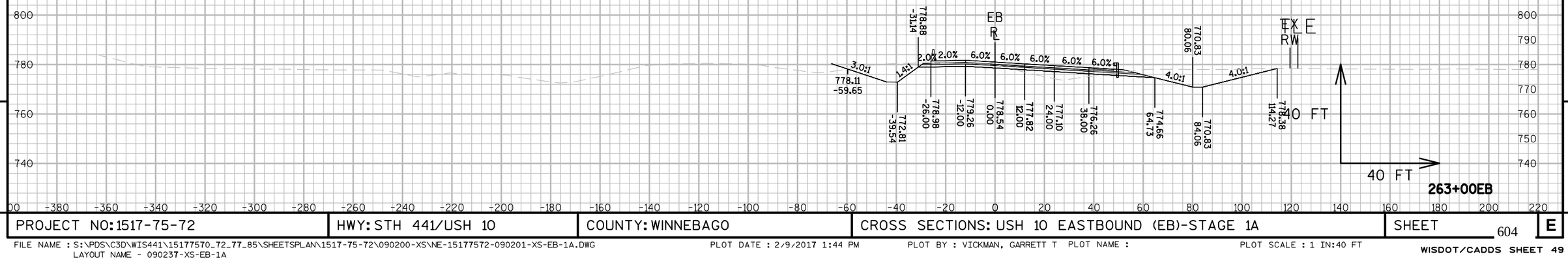
9

PROJECT NO: 1517-75-72	HWY: STH 441/USH 10	COUNTY: WINNEBAGO	CROSS SECTIONS: USH 10 EASTBOUND (EB)-STAGE 1A	SHEET 603	E

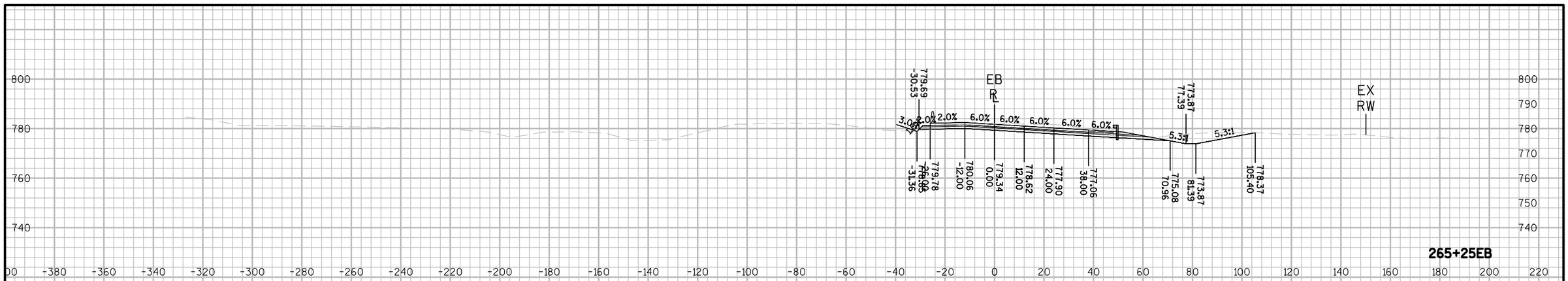
FILE NAME : S:\PDS\C3D\WIS441\15177570_72_77_85\SHEETSPLAN\1517-75-72\090200-XS\NE-15177572-090201-XS-EB-1A.DWG
LAYOUT NAME - 090236-XS-EB-1A
PLOT DATE : 2/9/2017 1:44 PM
PLOT BY : VICKMAN, GARRETT T PLOT NAME :
PLOT SCALE : 1 IN:40 FT
WISDOT/CADDS SHEET 49

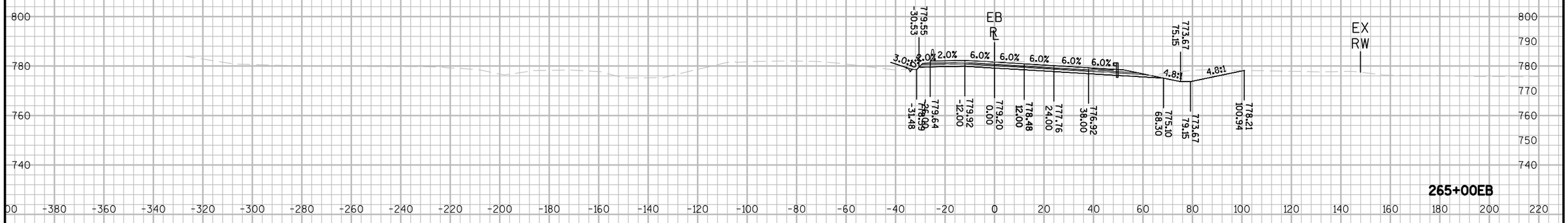


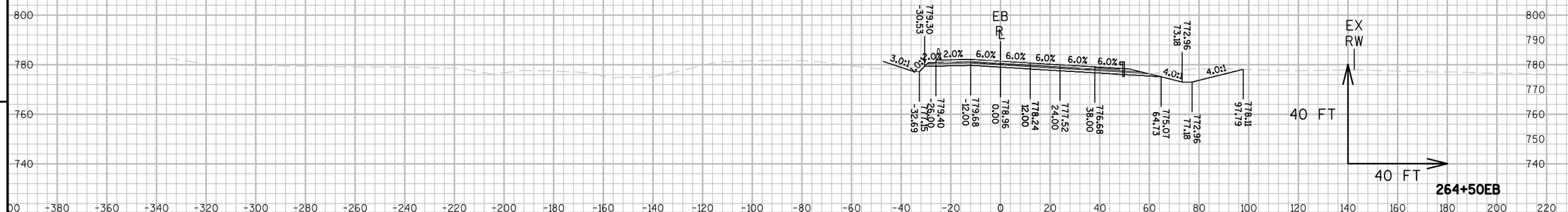




PROJECT NO: 1517-75-72	HWY: STH 441/USH 10	COUNTY: WINNEBAGO	CROSS SECTIONS: USH 10 EASTBOUND (EB)-STAGE 1A	SHEET 604	E







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PROJECT NO: 1517-75-72	HWY: STH 441/USH 10	COUNTY: WINNEBAGO	CROSS SECTIONS: USH 10 EASTBOUND (EB)-STAGE 1A	SHEET 605	E

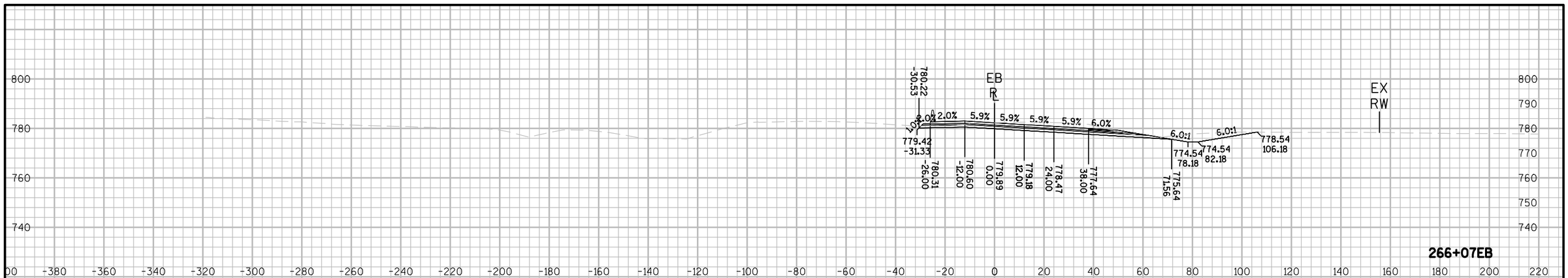
FILE NAME : S:\PDS\C3D\WIS441\15177570_72_77_85\SHEETSPLAN\1517-75-72\090200-XS\NE-15177572-090201-XS-EB-1A.DWG
LAYOUT NAME - 090238-XS-EB-1A

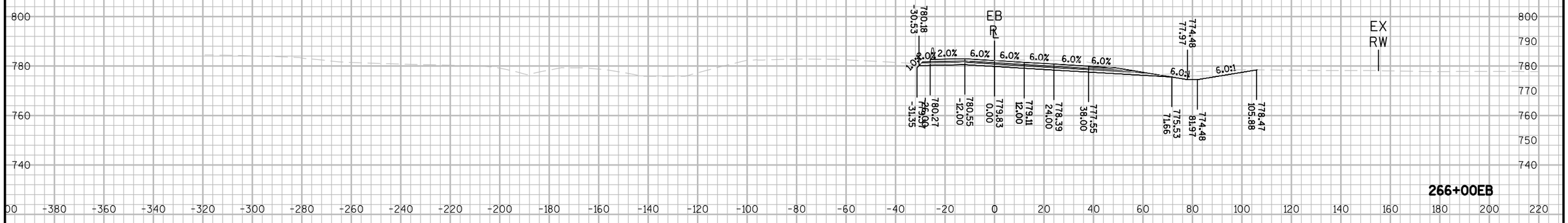
PLOT DATE : 2/9/2017 1:44 PM

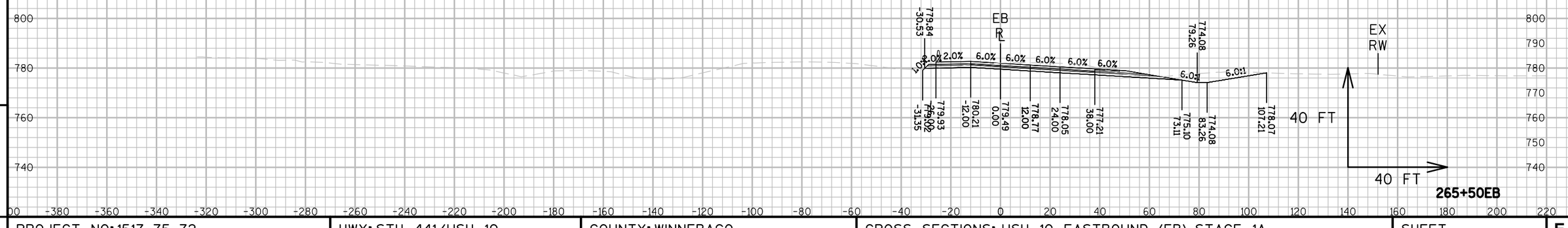
PLOT BY : VICKMAN, GARRETT T PLOT NAME :

PLOT SCALE : 1 IN:40 FT

WISDOT/CADDS SHEET 49







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PROJECT NO: 1517-75-72	HWY: STH 441/USH 10	COUNTY: WINNEBAGO	CROSS SECTIONS: USH 10 EASTBOUND (EB)-STAGE 1A	SHEET 606	E

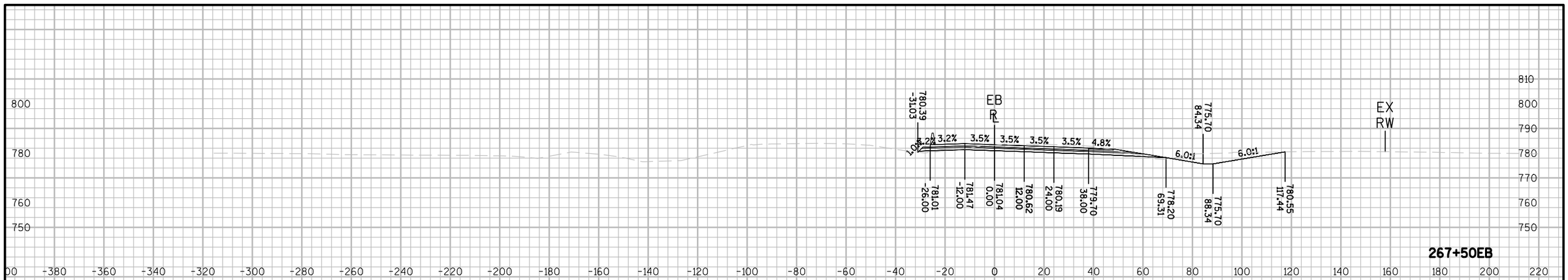
FILE NAME : S:\PDS\C3D\WIS441\15177570_72_77_85\SHEETSPLAN\1517-75-72\090200-XS\NE-15177572-090201-XS-EB-1A.DWG
LAYOUT NAME - 090239-XS-EB-1A

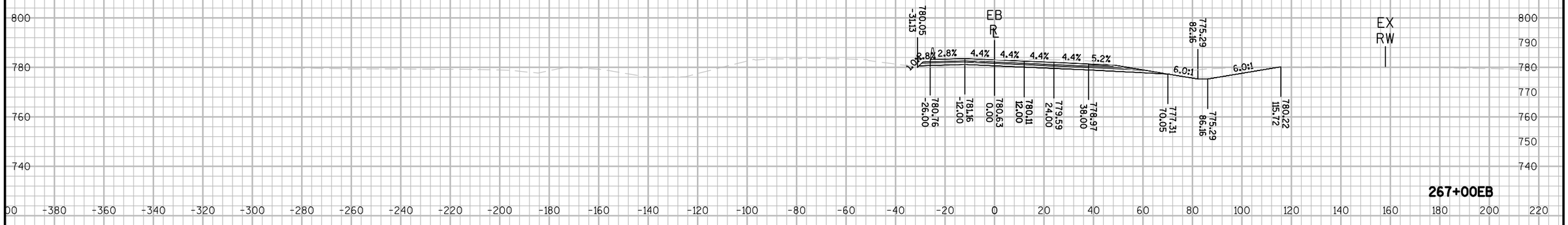
PLOT DATE : 2/9/2017 1:44 PM

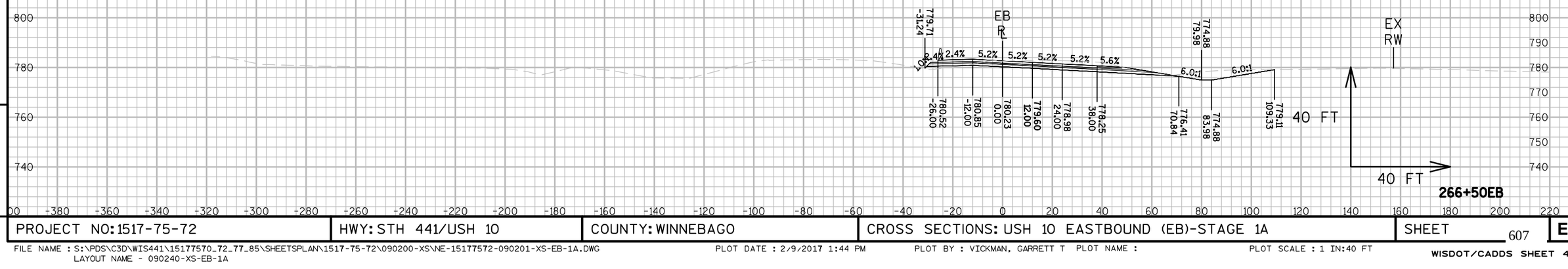
PLOT BY : VICKMAN, GARRETT T PLOT NAME :

PLOT SCALE : 1 IN:40 FT

WISDOT/CADDS SHEET 49







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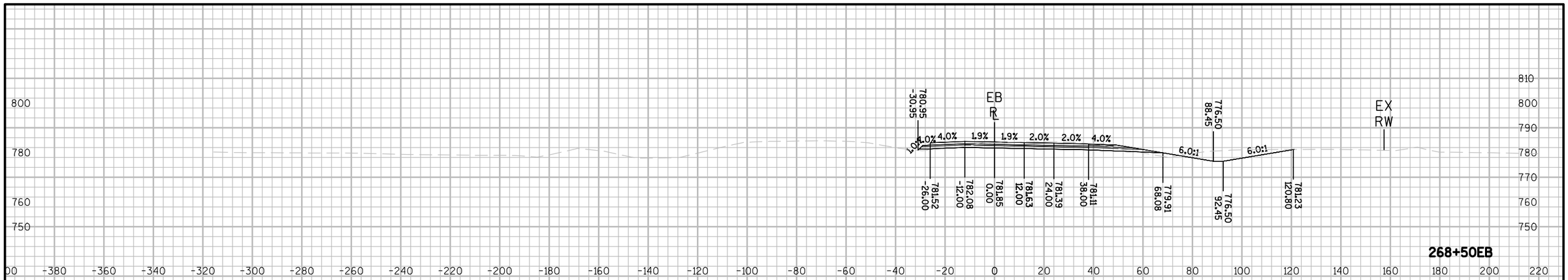
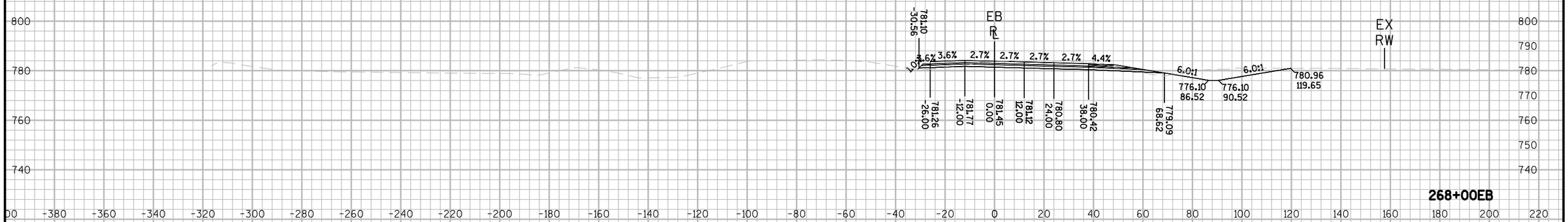
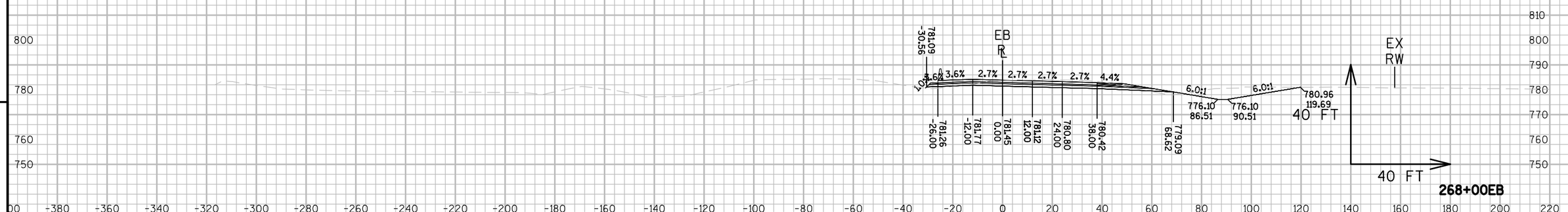
PROJECT NO: 1517-75-72	HWY: STH 441/USH 10	COUNTY: WINNEBAGO	CROSS SECTIONS: USH 10 EASTBOUND (EB)-STAGE 1A	SHEET 607	E

FILE NAME : S:\PDS\C3D\WIS441\15177570_72_77_85\SHEETSPLAN\1517-75-72\090200-XS\NE-15177572-090201-XS-EB-1A.DWG
LAYOUT NAME - 090240-XS-EB-1A
PLOT DATE : 2/9/2017 1:44 PM
PLOT BY : VICKMAN, GARRETT T PLOT NAME :
PLOT SCALE : 1 IN:40 FT
WISDOT/CADDS SHEET 49







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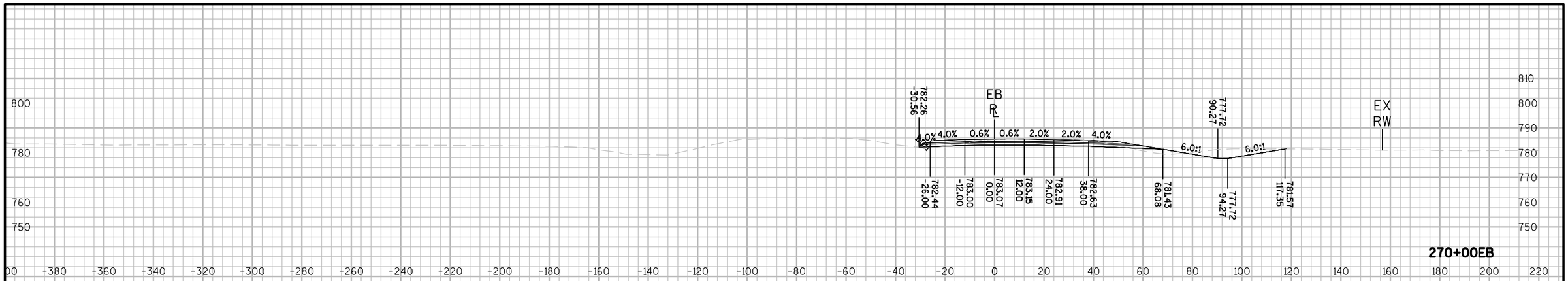
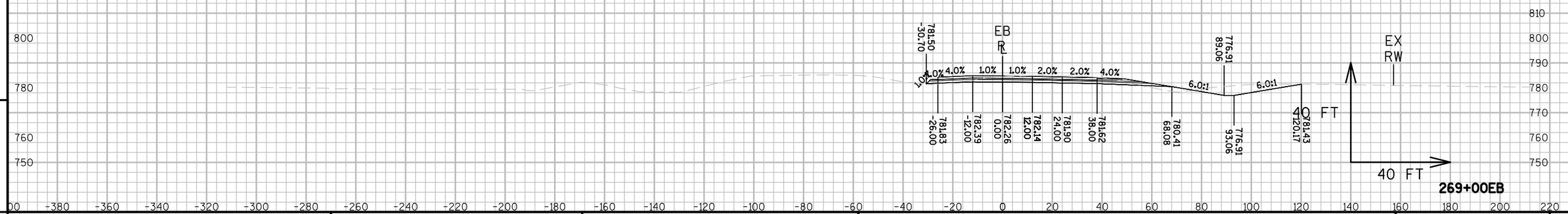
PROJECT NO: 1517-75-72	HWY: STH 441/USH 10	COUNTY: WINNEBAGO	CROSS SECTIONS: USH 10 EASTBOUND (EB)-STAGE 1A	SHEET 608	E

FILE NAME : S:\PDS\C3D\WIS441\15177570_72_77_85\SHEETSPLAN\1517-75-72\090200-XS\NE-15177572-090201-XS-EB-1A.DWG
LAYOUT NAME - 090241-XS-EB-1A
PLOT DATE : 2/9/2017 1:45 PM
PLOT BY : VICKMAN, GARRETT T PLOT NAME :
PLOT SCALE : 1 IN:40 FT
WISDOT/CADDS SHEET 49





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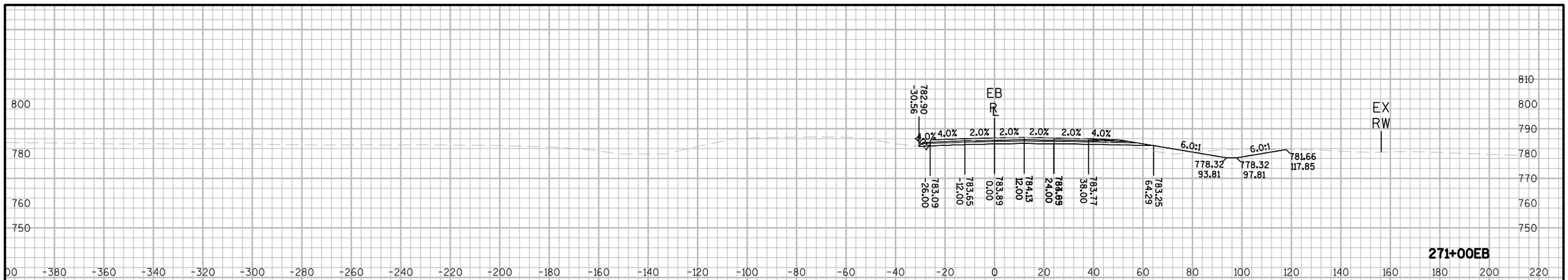
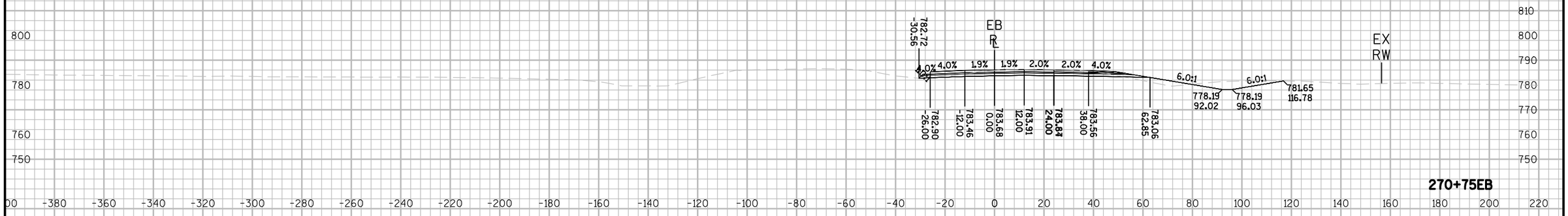
PROJECT NO: 1517-75-72	HWY: STH 441/USH 10	COUNTY: WINNEBAGO	CROSS SECTIONS: USH 10 EASTBOUND (EB)-STAGE 1A	SHEET 609	E

FILE NAME : S:\PDS\C3D\WIS441\15177570_72_77_85\SHEETSPLAN\1517-75-72\090200-XS\NE-15177572-090201-XS-EB-1A.DWG
LAYOUT NAME - 090242-XS-EB-1A

PLOT DATE : 2/9/2017 1:45 PM PLOT BY : VICKMAN, GARRETT T PLOT NAME : PLOT SCALE : 1 IN:40 FT

WISDOT/CADDS SHEET 49





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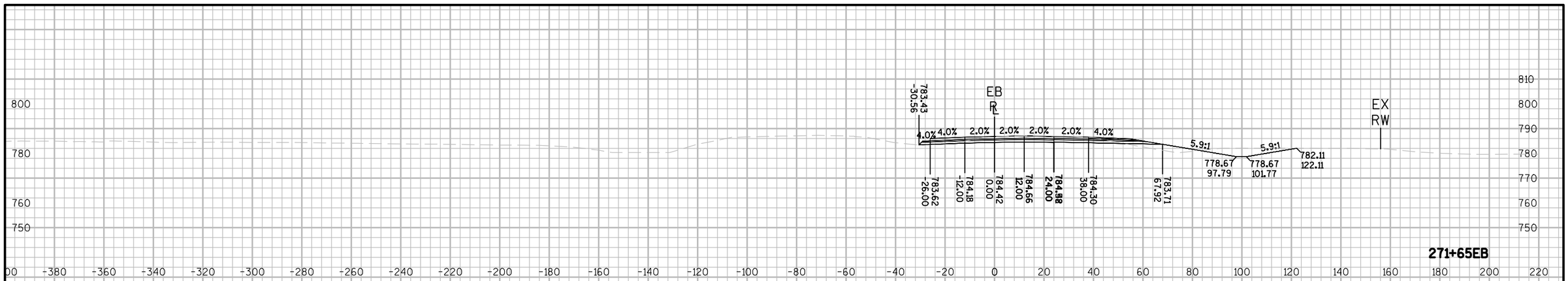
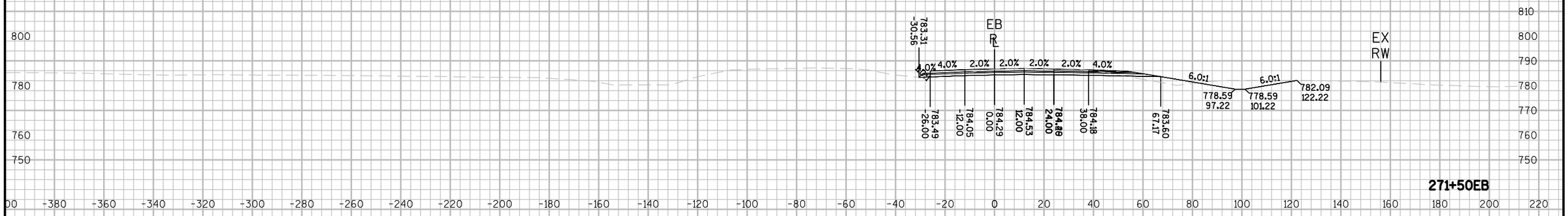
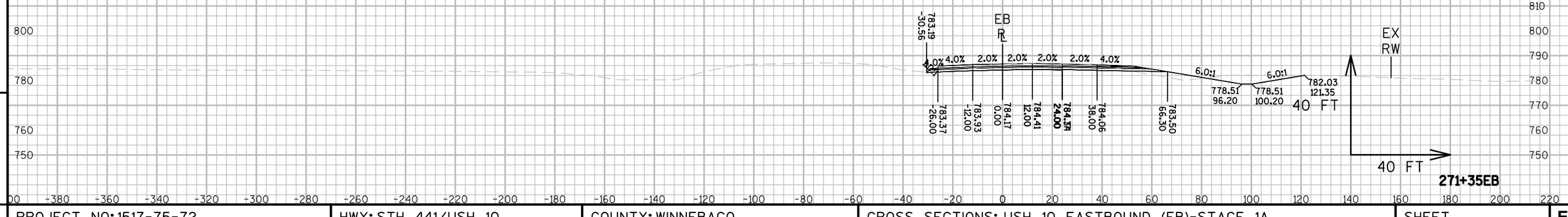
PROJECT NO: 1517-75-72	HWY: STH 441/USH 10	COUNTY: WINNEBAGO	CROSS SECTIONS: USH 10 EASTBOUND (EB)-STAGE 1A	SHEET 610	E

FILE NAME : S:\PDS\C3D\WIS441\15177570_72_77_85\SHEETSPLAN\1517-75-72\090200-XS\NE-15177572-090201-XS-EB-1A.DWG
LAYOUT NAME - 090243-XS-EB-1A
PLOT DATE : 2/9/2017 1:45 PM
PLOT BY : VICKMAN, GARRETT T PLOT NAME :
PLOT SCALE : 1 IN:40 FT

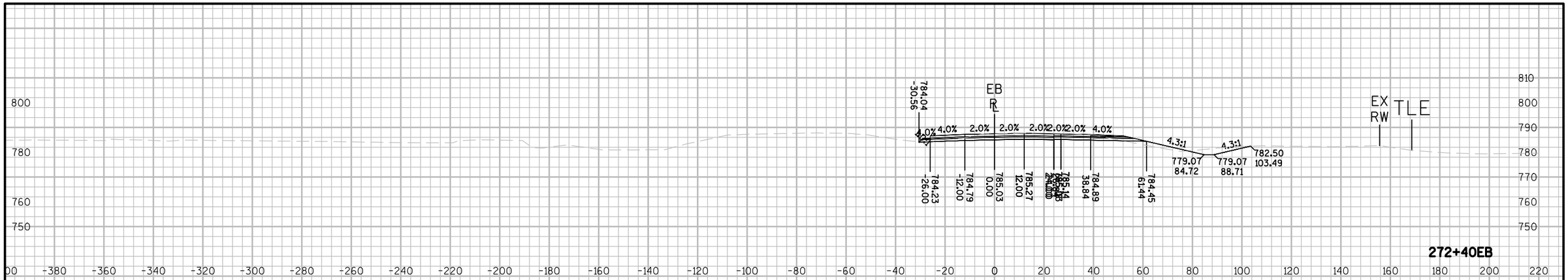


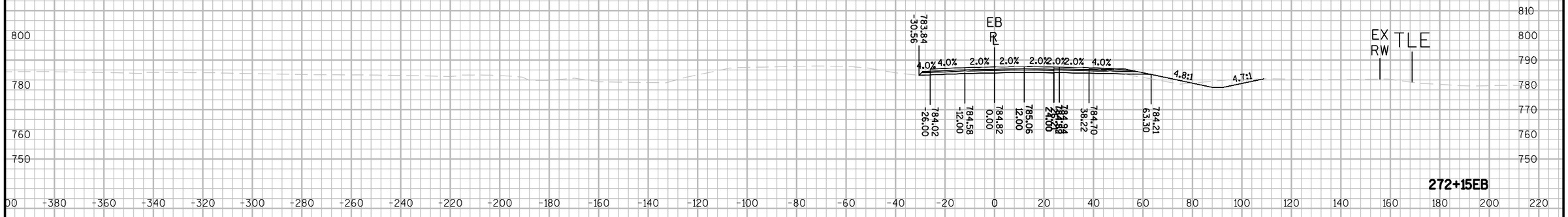


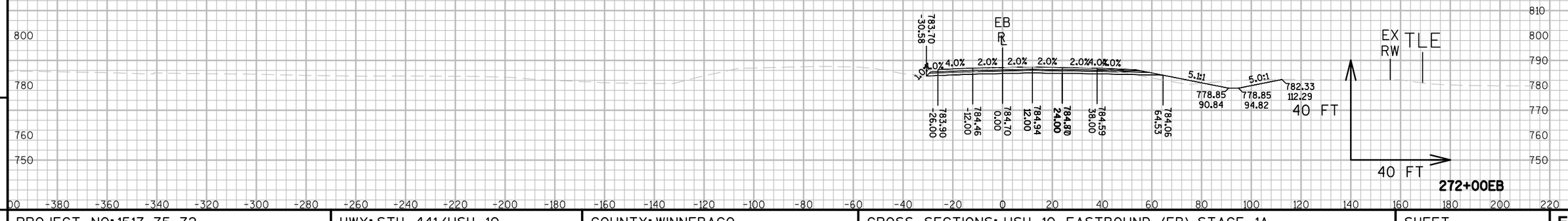


PROJECT NO: 1517-75-72	HWY: STH 441/USH 10	COUNTY: WINNEBAGO	CROSS SECTIONS: USH 10 EASTBOUND (EB)-STAGE 1A	SHEET 611	E

FILE NAME : S:\PDS\C3D\WIS441\15177570_72_77_85\SHEETSPLAN\1517-75-72\090200-XS\NE-15177572-090201-XS-EB-1A.DWG
LAYOUT NAME - 090244-XS-EB-1A
PLOT DATE : 2/9/2017 1:45 PM
PLOT BY : VICKMAN, GARRETT T PLOT NAME :
PLOT SCALE : 1 IN:40 FT







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PROJECT NO: 1517-75-72	HWY: STH 441/USH 10	COUNTY: WINNEBAGO	CROSS SECTIONS: USH 10 EASTBOUND (EB)-STAGE 1A	SHEET 612	E

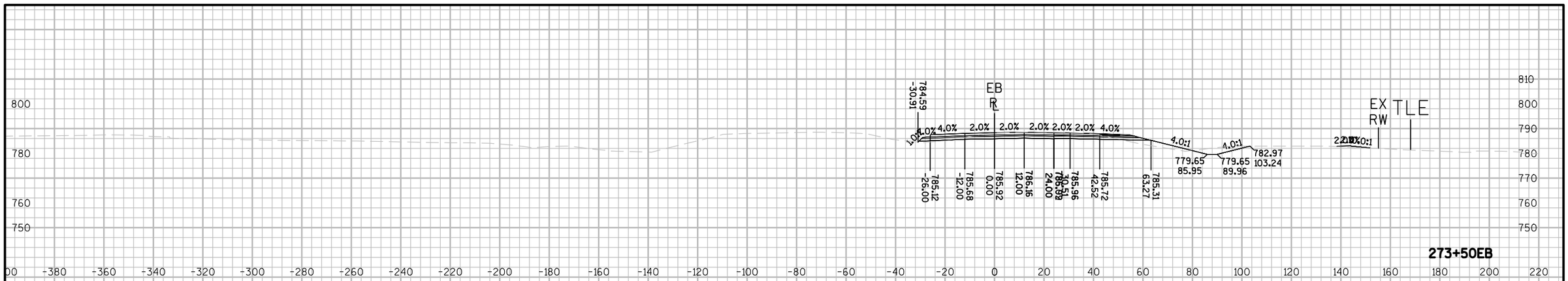
FILE NAME : S:\PDS\C3D\WIS441\15177570_72_77_85\SHEETSPLAN\1517-75-72\090200-XS\NE-15177572-090201-XS-EB-1A.DWG
LAYOUT NAME - 090245-XS-EB-1A

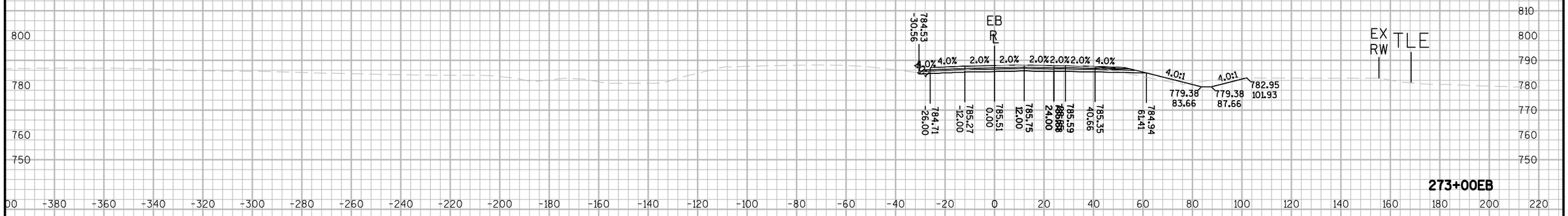
PLOT DATE : 2/9/2017 1:45 PM

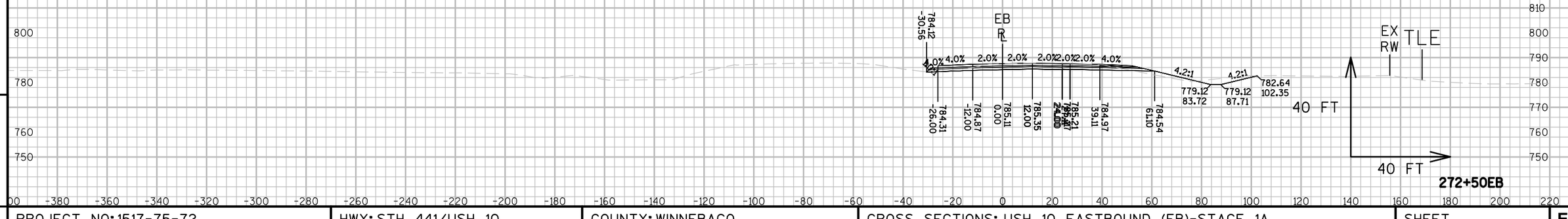
PLOT BY : VICKMAN, GARRETT T PLOT NAME :

PLOT SCALE : 1 IN:40 FT

WISDOT/CADDS SHEET 49







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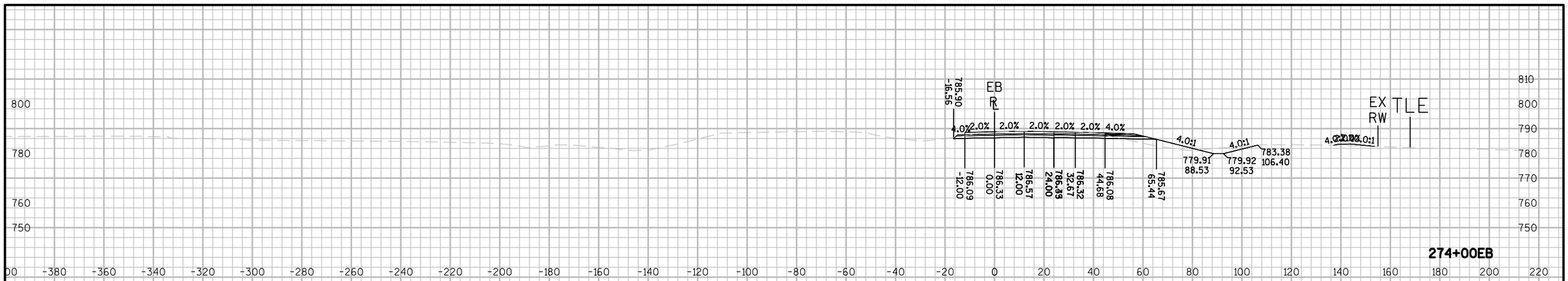
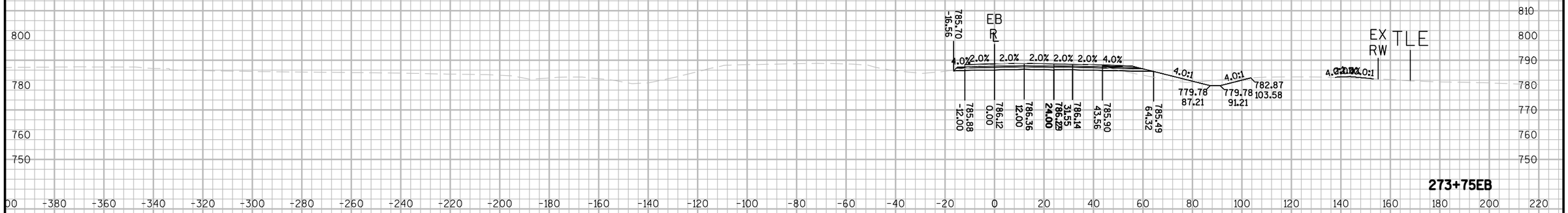
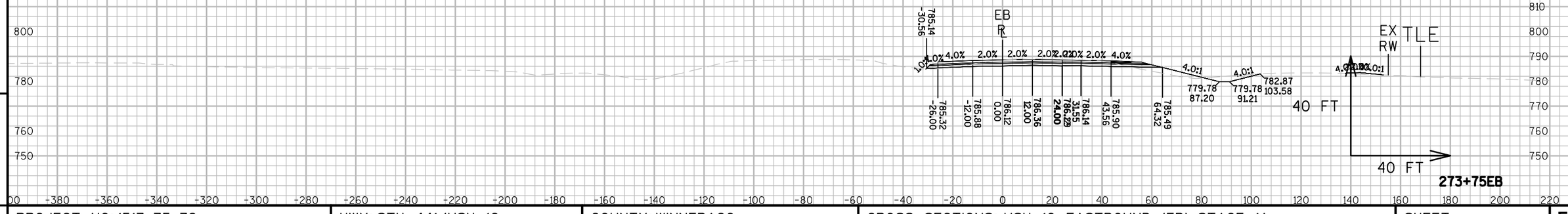
PROJECT NO: 1517-75-72	HWY: STH 441/USH 10	COUNTY: WINNEBAGO	CROSS SECTIONS: USH 10 EASTBOUND (EB)-STAGE 1A	SHEET 613	E

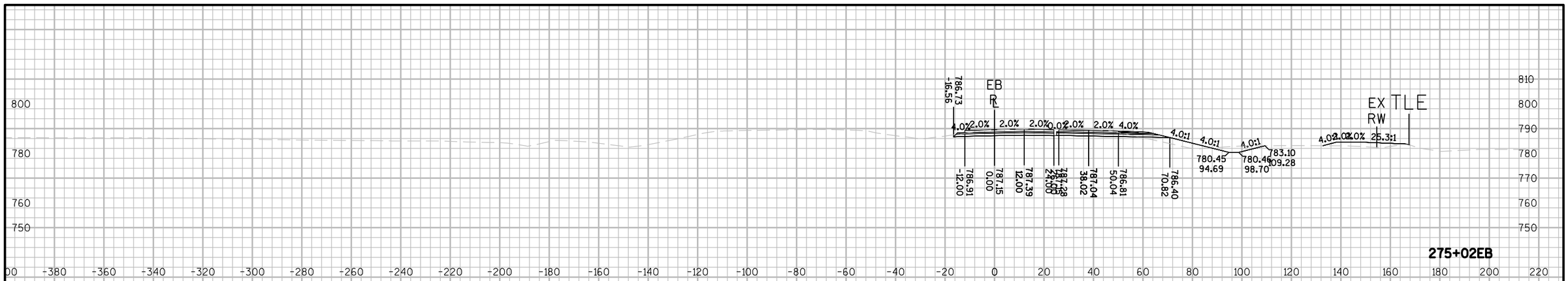
FILE NAME : S:\PDS\C3D\WIS441\15177570_72_77_85\SHEETSPLAN\1517-75-72\090200-XS\NE-15177572-090201-XS-EB-1A.DWG
LAYOUT NAME - 090246-XS-EB-1A
PLOT DATE : 2/9/2017 1:45 PM
PLOT BY : VICKMAN, GARRETT T PLOT NAME :
PLOT SCALE : 1 IN:40 FT

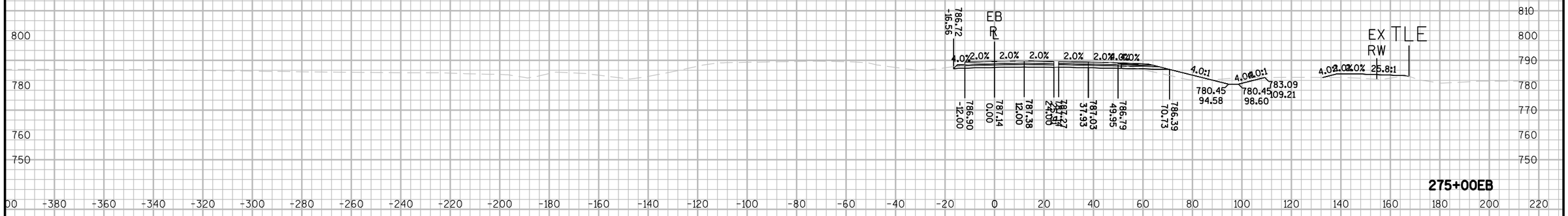


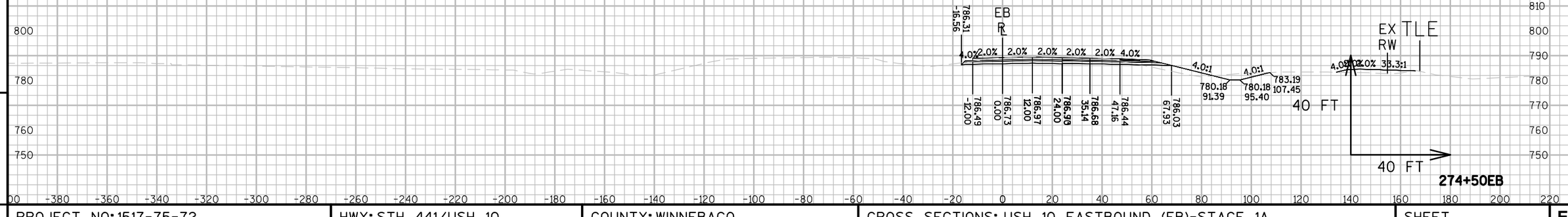




PROJECT NO: 1517-75-72	HWY: STH 441/USH 10	COUNTY: WINNEBAGO	CROSS SECTIONS: USH 10 EASTBOUND (EB)-STAGE 1A	SHEET 614	E





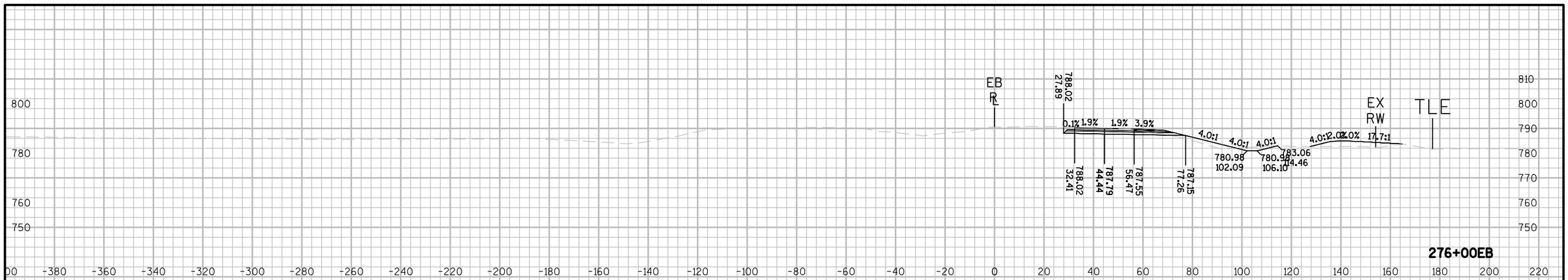


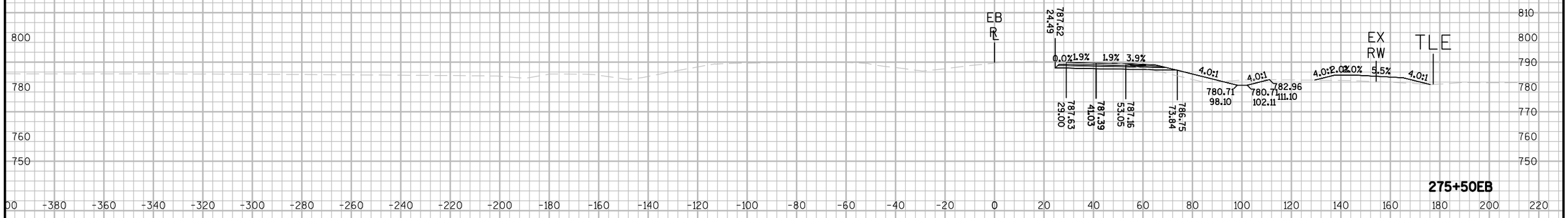
PROJECT NO: 1517-75-72	HWY: STH 441/USH 10	COUNTY: WINNEBAGO	CROSS SECTIONS: USH 10 EASTBOUND (EB)-STAGE 1A	SHEET 615	E

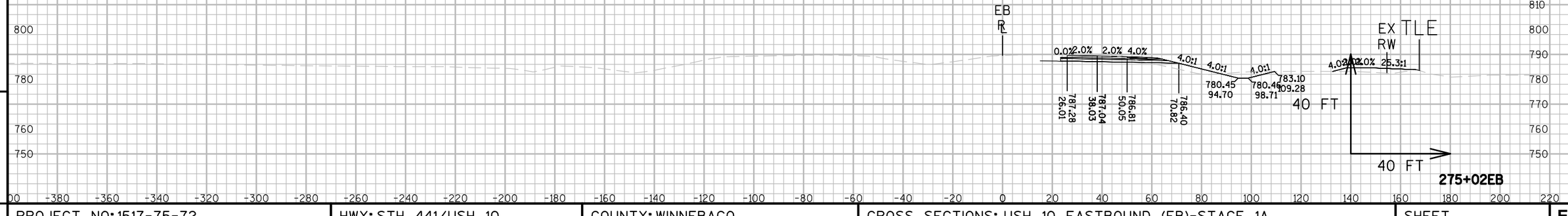
FILE NAME : S:\PDS\C3D\WIS441\15177570_72_77_85\SHEETSPLAN\1517-75-72\090200-XS\NE-15177572-090201-XS-EB-1A.DWG
LAYOUT NAME - 090248-XS-EB-1A

PLOT DATE : 2/9/2017 1:45 PM PLOT BY : VICKMAN, GARRETT T PLOT NAME : PLOT SCALE : 1 IN:40 FT

WISDOT/CADDS SHEET 49







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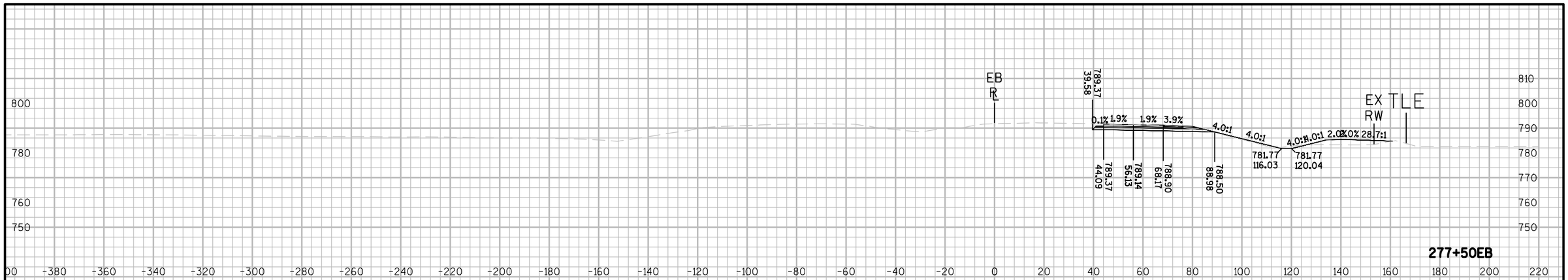
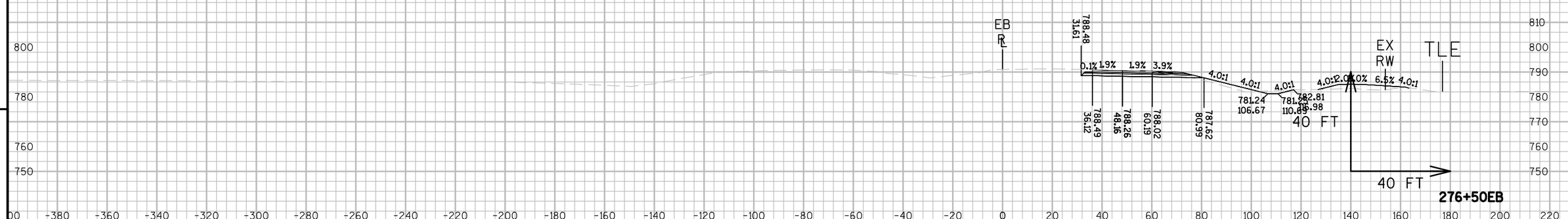
PROJECT NO: 1517-75-72	HWY: STH 441/USH 10	COUNTY: WINNEBAGO	CROSS SECTIONS: USH 10 EASTBOUND (EB)-STAGE 1A	SHEET 616	E

FILE NAME : S:\PDS\C3D\WIS441\15177570_72_77_85\SHEETSPLAN\1517-75-72\090200-XS\NE-15177572-090201-XS-EB-1A.DWG
LAYOUT NAME - 090249-XS-EB-1A
PLOT DATE : 2/9/2017 1:46 PM
PLOT BY : VICKMAN, GARRETT T PLOT NAME :
PLOT SCALE : 1 IN:40 FT
WISDOT/CADDS SHEET 49





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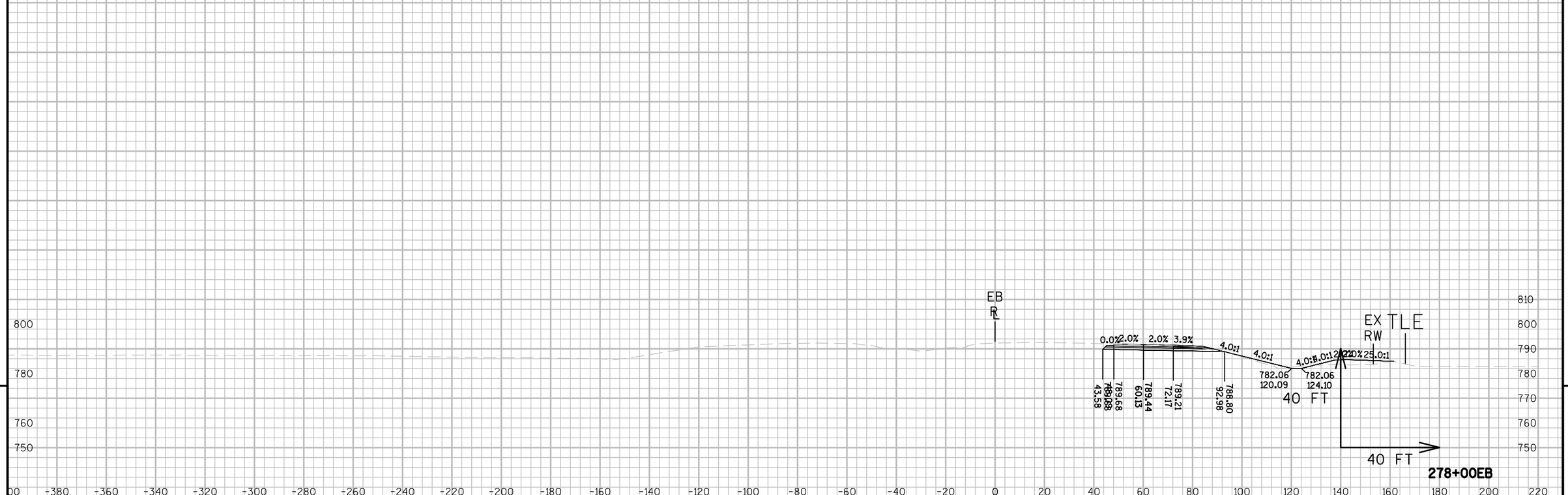
PROJECT NO: 1517-75-72	HWY: STH 441/USH 10	COUNTY: WINNEBAGO	CROSS SECTIONS: USH 10 EASTBOUND (EB)-STAGE 1A	SHEET 617	E

FILE NAME : S:\PDS\C3D\WIS441\15177570_72_77_85\SHEETSPLAN\1517-75-72\090200-XS\NE-15177572-090201-XS-EB-1A.DWG
LAYOUT NAME - 090250-XS-EB-1A
PLOT DATE : 2/9/2017 1:46 PM
PLOT BY : VICKMAN, GARRETT T PLOT NAME :
PLOT SCALE : 1 IN:40 FT
WISDOT/CADDS SHEET 49



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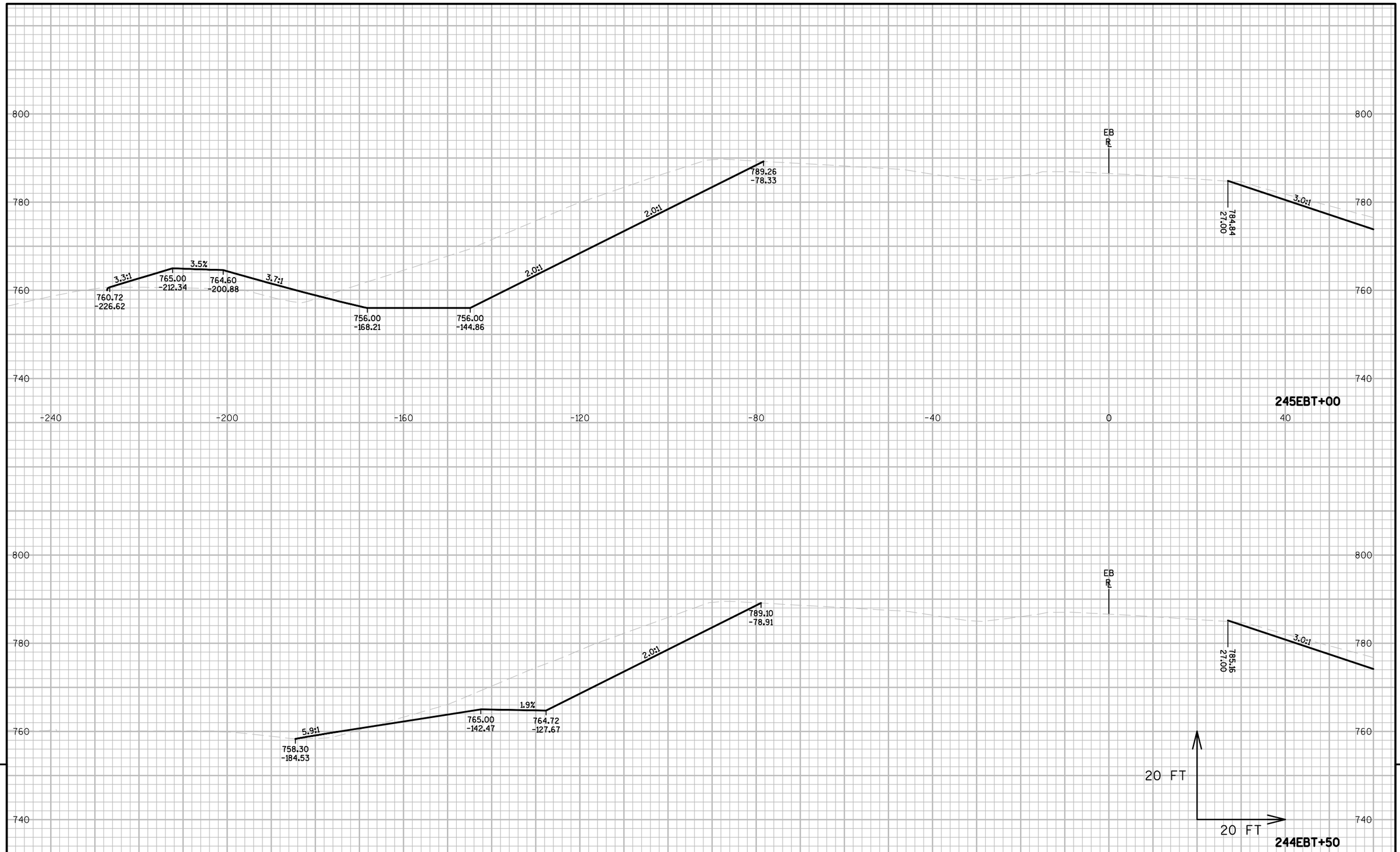
PROJECT NO: 1517-75-72	HWY: STH 441/USH 10	COUNTY: WINNEBAGO	CROSS SECTIONS: USH 10 EASTBOUND (EB)-STAGE 1A	SHEET 618	E

FILE NAME : S:\PDS\C3D\WIS441\15177570_72_77_85\SHEETSPLAN\1517-75-72\090200-XS\NE-15177572-090201-XS-EB-1A.DWG
LAYOUT NAME - 090251-XS-EB-1A

PLOT DATE : 2/9/2017 1:46 PM PLOT BY : VICKMAN, GARRETT T PLOT NAME : PLOT SCALE : 1 IN:40 FT



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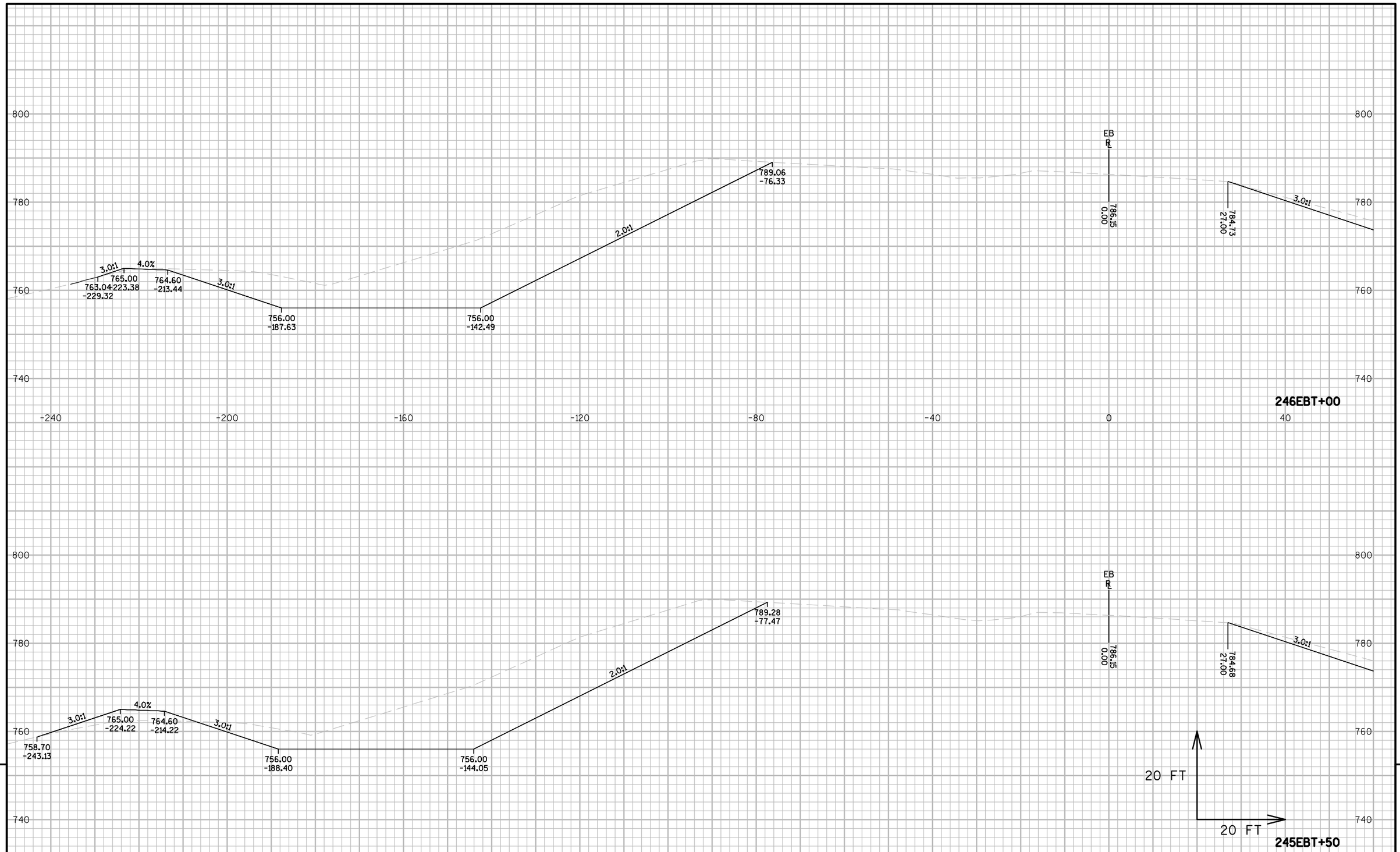
PROJECT NO: 1517-75-72	HWY: STH 441/USH 10	COUNTY: WINNEBAGO	CROSS SECTIONS: TEMPORARY USH 10 EASTBOUND (EBT)-STAGE 1A	SHEET 619	E

FILE NAME : S:\PDS\C3D\WIS441\15177570_72_77_85\SHEETSPLAN\1517-75-72\090200-XS\NE-15177572-090201-XS-EBT-1A.DWG
LAYOUT NAME - 090201-XS-EBT-1A

PLOT DATE : 2/9/2017 2:34 PM

PLOT BY : VICKMAN, GARRETT T PLOT NAME :

PLOT SCALE : 1 IN:20 FT



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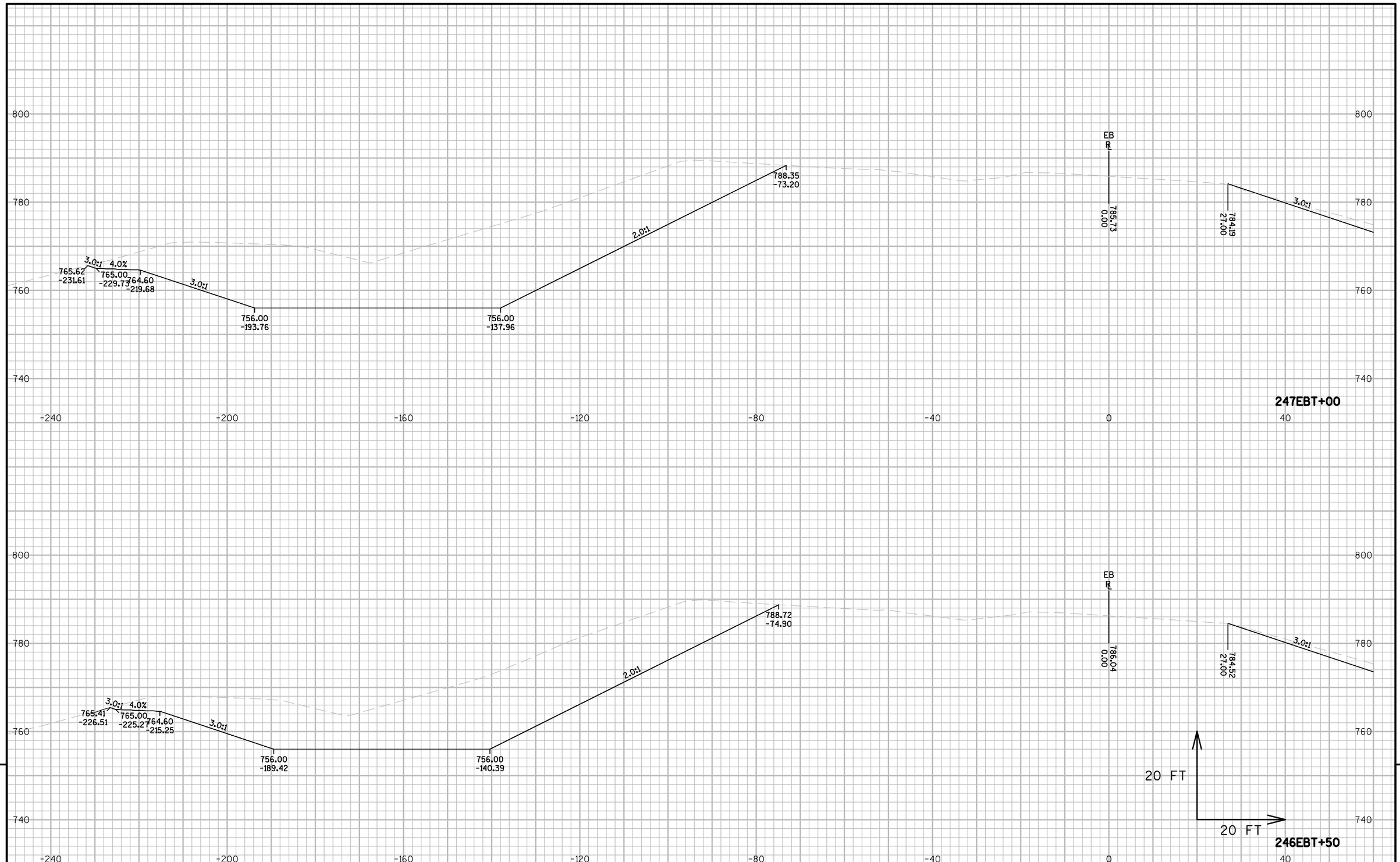
PROJECT NO: 1517-75-72	HWY: STH 441/USH 10	COUNTY: WINNEBAGO	CROSS SECTIONS: TEMPORARY USH 10 EASTBOUND (EBT)-STAGE 1A	SHEET 620	E

FILE NAME : S:\PDS\C3D\WIS441\15177570_72_77_85\SHEETSPLAN\1517-75-72\090200-XS\NE-15177572-090201-XS-EBT-1A.DWG
LAYOUT NAME - 090202-XS-EBT-1A
PLOT DATE : 2/9/2017 2:34 PM
PLOT BY : VICKMAN, GARRETT T PLOT NAME :
PLOT SCALE : 1 IN:20 FT
WISDOT/CADDS SHEET 49



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PROJECT NO: 1517-75-72	HWY: STH 441/USH 10	COUNTY: WINNEBAGO	CROSS SECTIONS: TEMPORARY USH 10 EASTBOUND (EBT)-STAGE 1A	SHEET 621	E

FILE NAME : S:\PDS\C3D\WIS441\15177570_72_77_85\SHEETSPLAN\1517-75-72\090200-XS\NE-15177572-090201-XS-EBT-1A.DWG
LAYOUT NAME - 090203-XS-EBT-1A

PLOT DATE : 2/9/2017 2:34 PM

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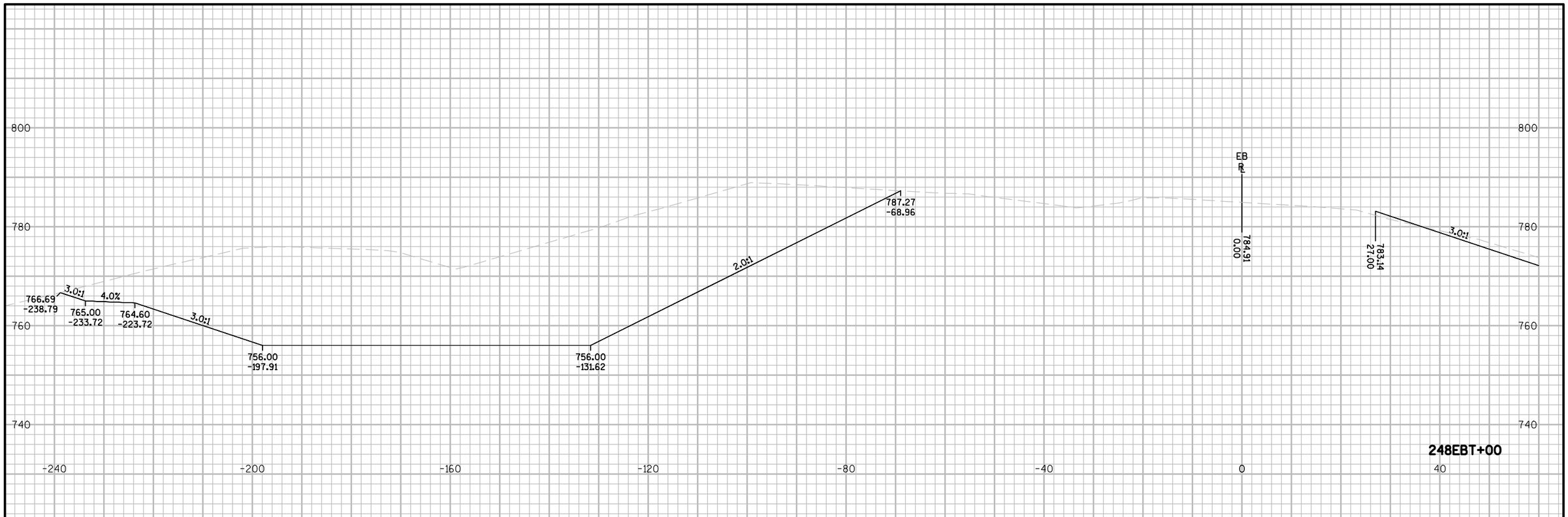
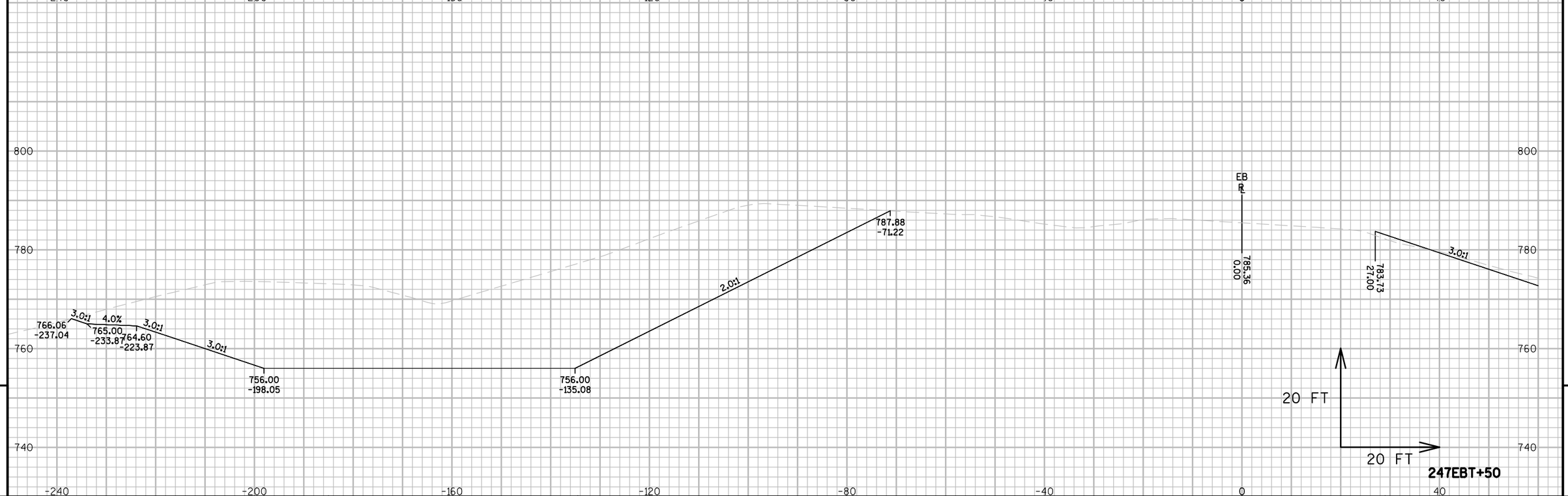
PLOT SCALE : 1 IN:20 FT





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PROJECT NO: 1517-75-72	HWY: STH 441/USH 10	COUNTY: WINNEBAGO	CROSS SECTIONS: TEMPORARY USH 10 EASTBOUND (EBT)-STAGE 1A	SHEET 622	E

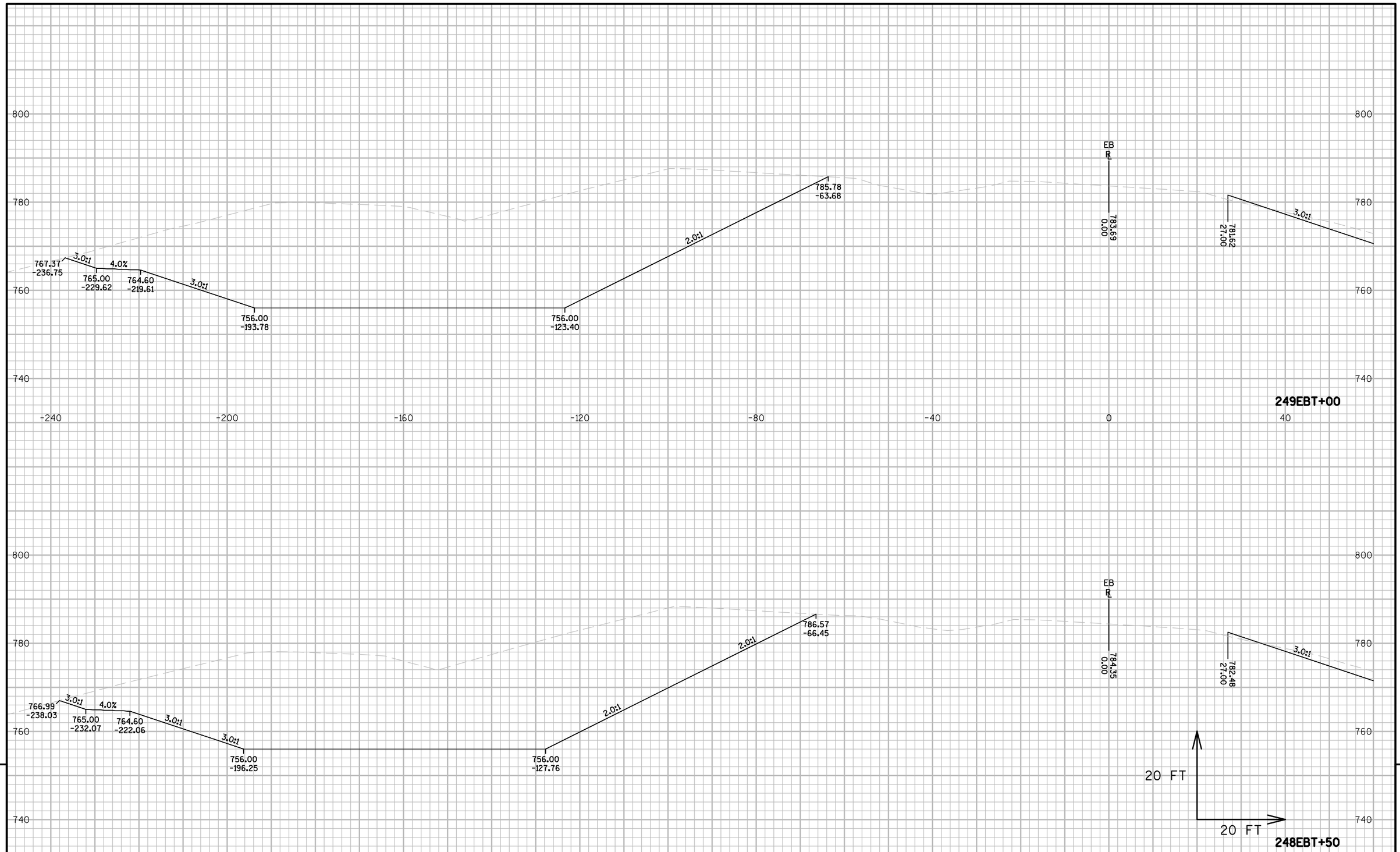
FILE NAME : S:\PDS\C3D\WIS441\15177570_72_77_85\SHEETSPLAN\1517-75-72\090200-XS\NE-15177572-090201-XS-EBT-1A.DWG
LAYOUT NAME - 090204-XS-EBT-1A

PLOT DATE : 2/9/2017 2:34 PM

PLOT BY : VICKMAN, GARRETT T PLOT NAME :

PLOT SCALE : 1 IN:20 FT

WISDOT/CADDS SHEET 49



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PROJECT NO: 1517-75-72	HWY: STH 441/USH 10	COUNTY: WINNEBAGO	CROSS SECTIONS: TEMPORARY USH 10 EASTBOUND (EBT)-STAGE 1A	SHEET 623	E

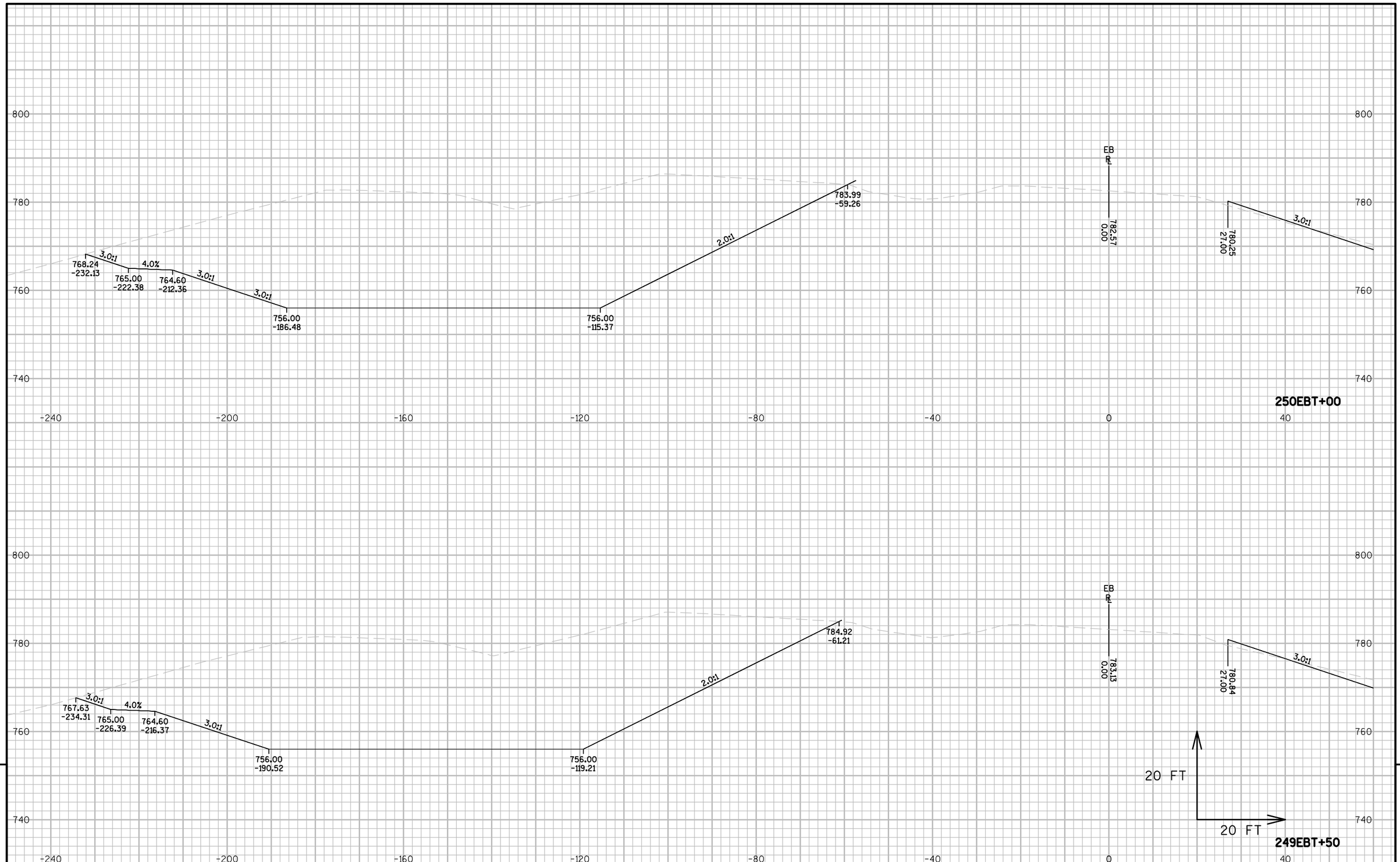
FILE NAME : S:\PDS\C3D\WIS441\15177570_T2_77_85\SHEETSPLAN\1517-75-72\090200-XS\NE-15177572-090201-XS-EBT-1A.DWG
LAYOUT NAME - 090205-XS-EBT-1A

PLOT DATE : 2/9/2017 2:34 PM

PLOT BY : VICKMAN, GARRETT T PLOT NAME :

PLOT SCALE : 1 IN:20 FT

WISDOT/CADDS SHEET 49



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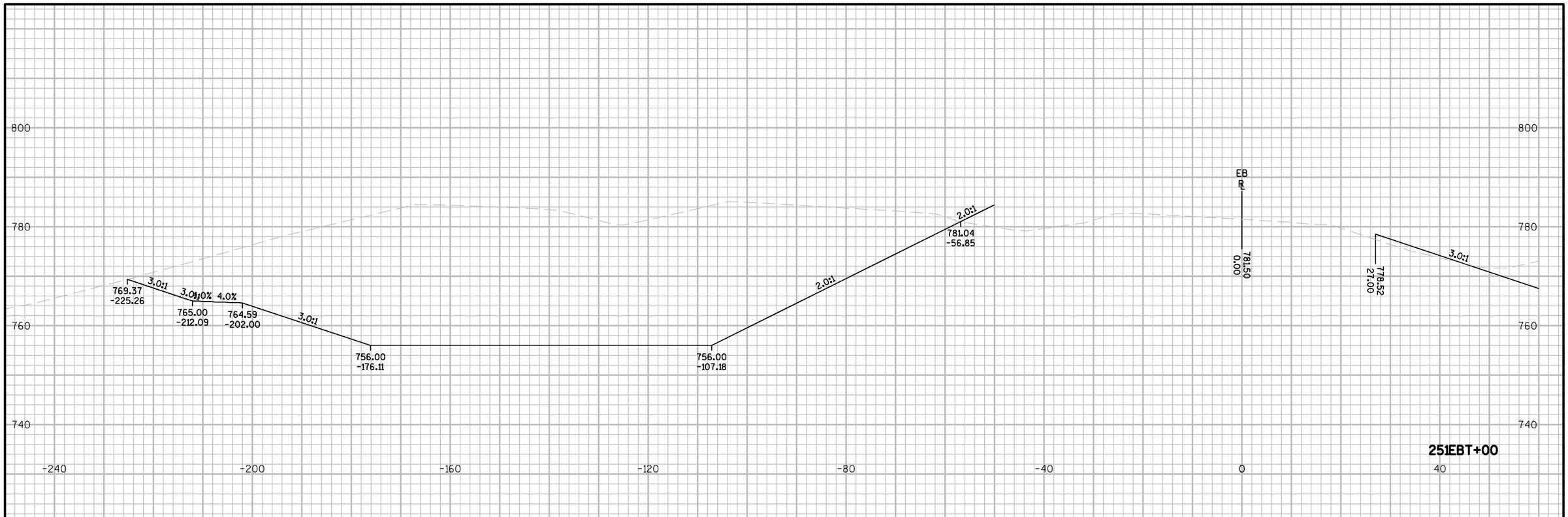
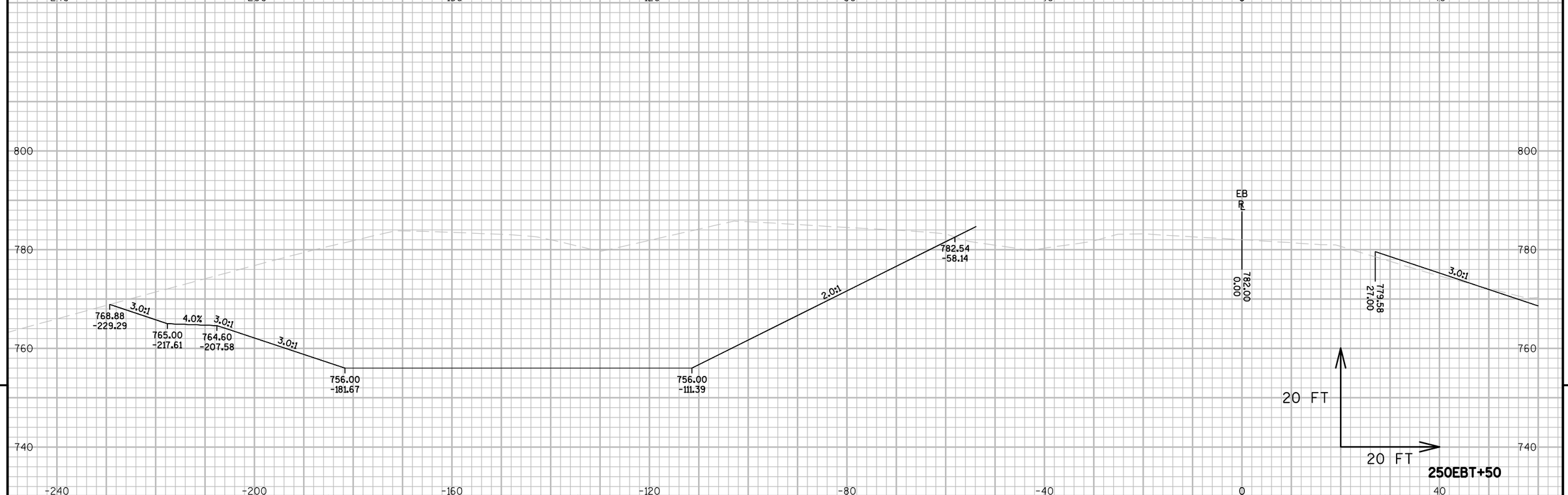
PROJECT NO: 1517-75-72	HWY: STH 441/USH 10	COUNTY: WINNEBAGO	CROSS SECTIONS: TEMPORARY USH 10 EASTBOUND (EBT)-STAGE 1A	SHEET 624	E

FILE NAME : S:\PDS\C3D\WIS441\15177570_72_77_85\SHEETSPLAN\1517-75-72\090200-XS\NE-15177572-090201-XS-EBT-1A.DWG
LAYOUT NAME - 090206-XS-EBT-1A
PLOT DATE : 2/9/2017 2:34 PM
PLOT BY : VICKMAN, GARRETT T PLOT NAME :
PLOT SCALE : 1 IN:20 FT
WISDOT/CADDS SHEET 49





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PROJECT NO: 1517-75-72	HWY: STH 441/USH 10	COUNTY: WINNEBAGO	CROSS SECTIONS: TEMPORARY USH 10 EASTBOUND (EBT)-STAGE 1A	SHEET 625	E

FILE NAME : S:\PDS\C3D\WIS441\15177570_72_77_85\SHEETSPLAN\1517-75-72\090200-XS\NE-15177572-090201-XS-EBT-1A.DWG
LAYOUT NAME - 090207-XS-EBT-1A
PLOT DATE : 2/9/2017 2:34 PM
PLOT BY : VICKMAN, GARRETT T PLOT NAME :
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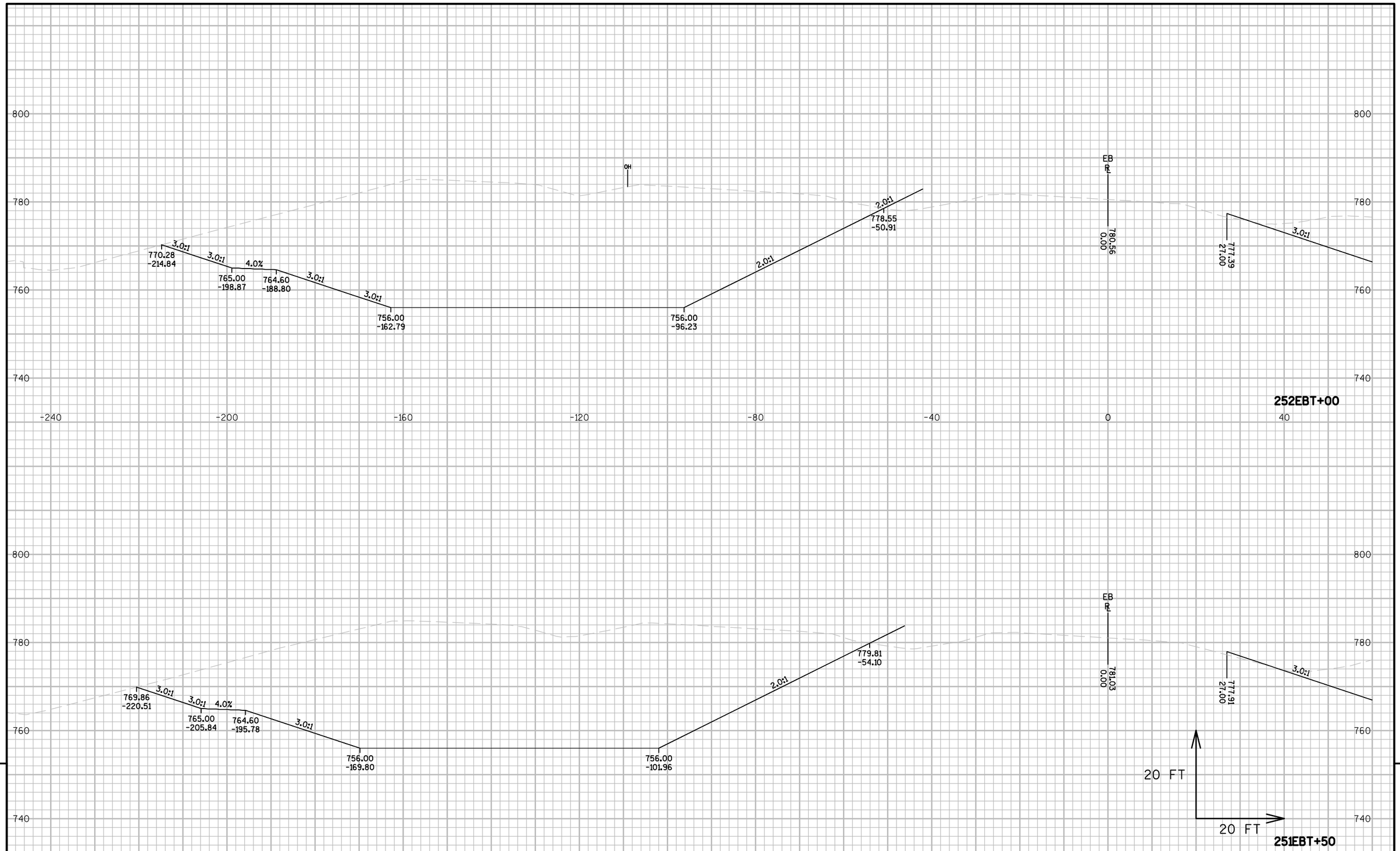

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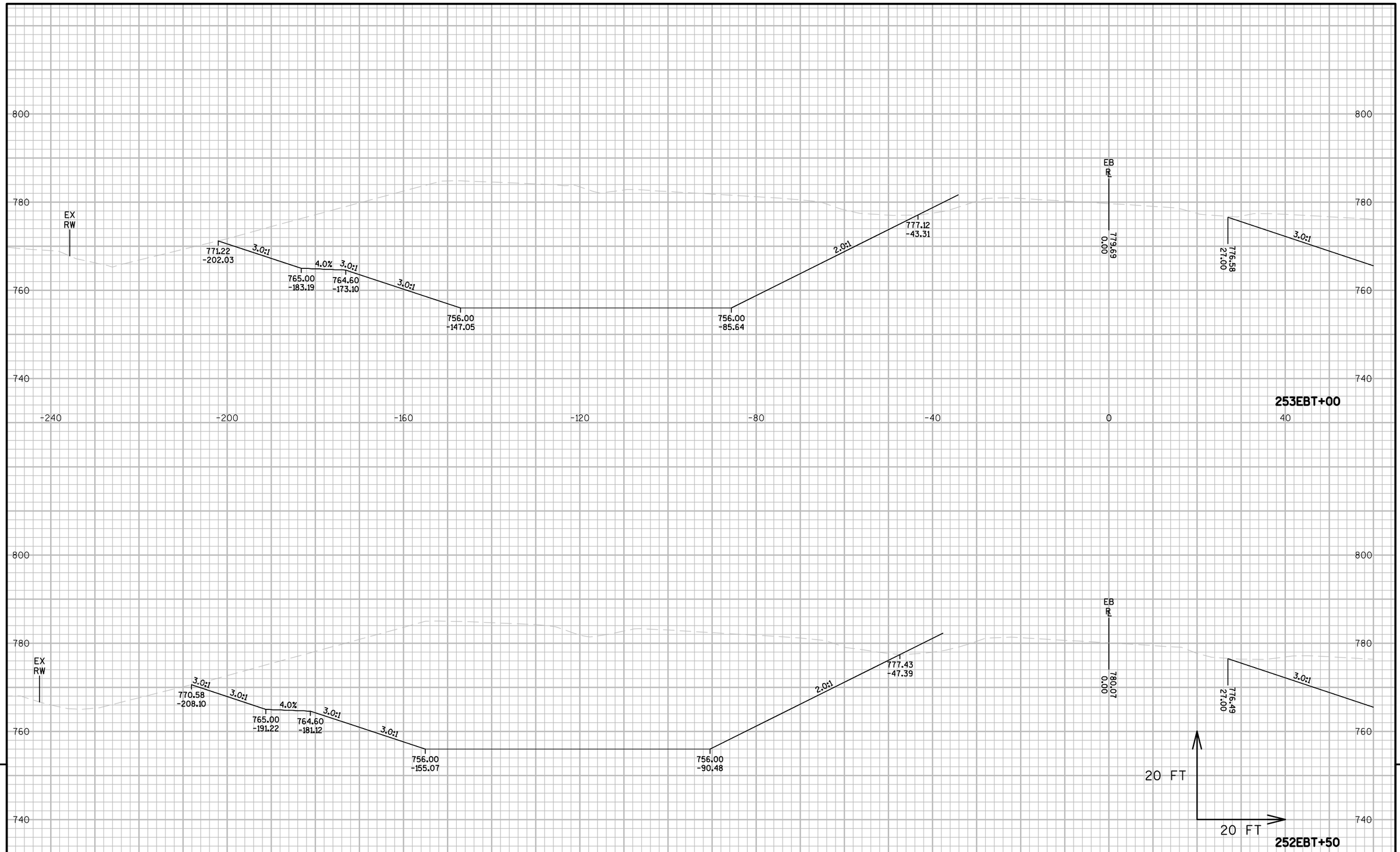
PROJECT NO: 1517-75-72	HWY: STH 441/USH 10	COUNTY: WINNEBAGO	CROSS SECTIONS: TEMPORARY USH 10 EASTBOUND (EBT)-STAGE 1A	SHEET 626	E

FILE NAME : S:\PDS\C3D\WIS441\15177570_T2_77_85\SHEETSPLAN\1517-75-72\090200-XS\NE-15177572-090201-XS-EBT-1A.DWG
LAYOUT NAME - 090208-XS-EBT-1A
PLOT DATE : 2/9/2017 2:35 PM
PLOT BY : VICKMAN, GARRETT T PLOT NAME :
PLOT SCALE : 1 IN:20 FT
WISDOT/CADDS SHEET 49

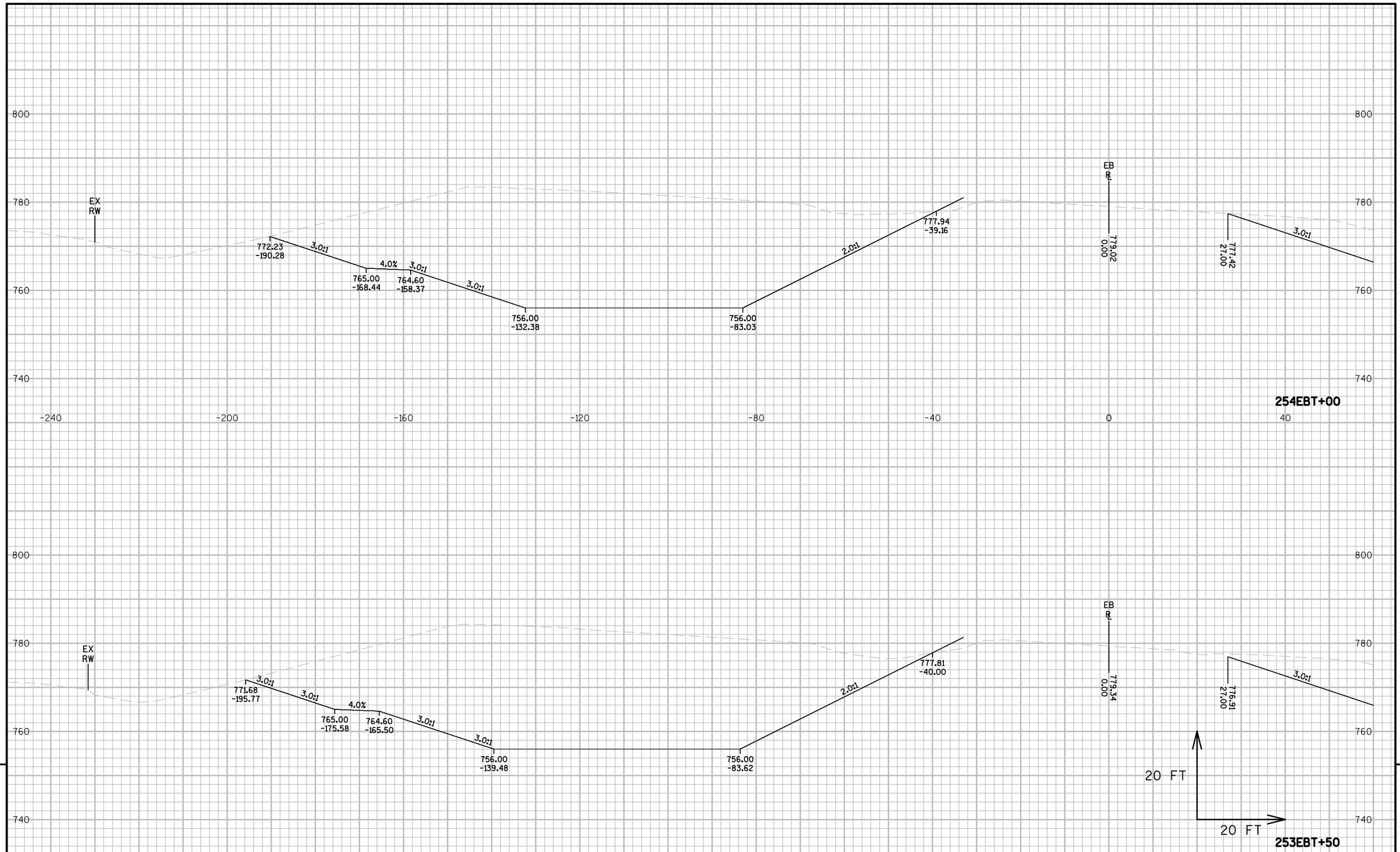


PROJECT NO: 1517-75-72	HWY: STH 441/USH 10	COUNTY: WINNEBAGO	CROSS SECTIONS: TEMPORARY USH 10 EASTBOUND (EBT)-STAGE 1A	SHEET 627	E

FILE NAME : S:\PDS\C3D\WIS441\15177570_72_77_85\SHEETSPLAN\1517-75-72\090200-XS\NE-15177572-090201-XS-EBT-1A.DWG
LAYOUT NAME - 090209-XS-EBT-1A

PLOT DATE : 2/9/2017 2:35 PM PLOT BY : VICKMAN, GARRETT T PLOT NAME : PLOT SCALE : 1 IN:20 FT

WISDOT/CADDS SHEET 49

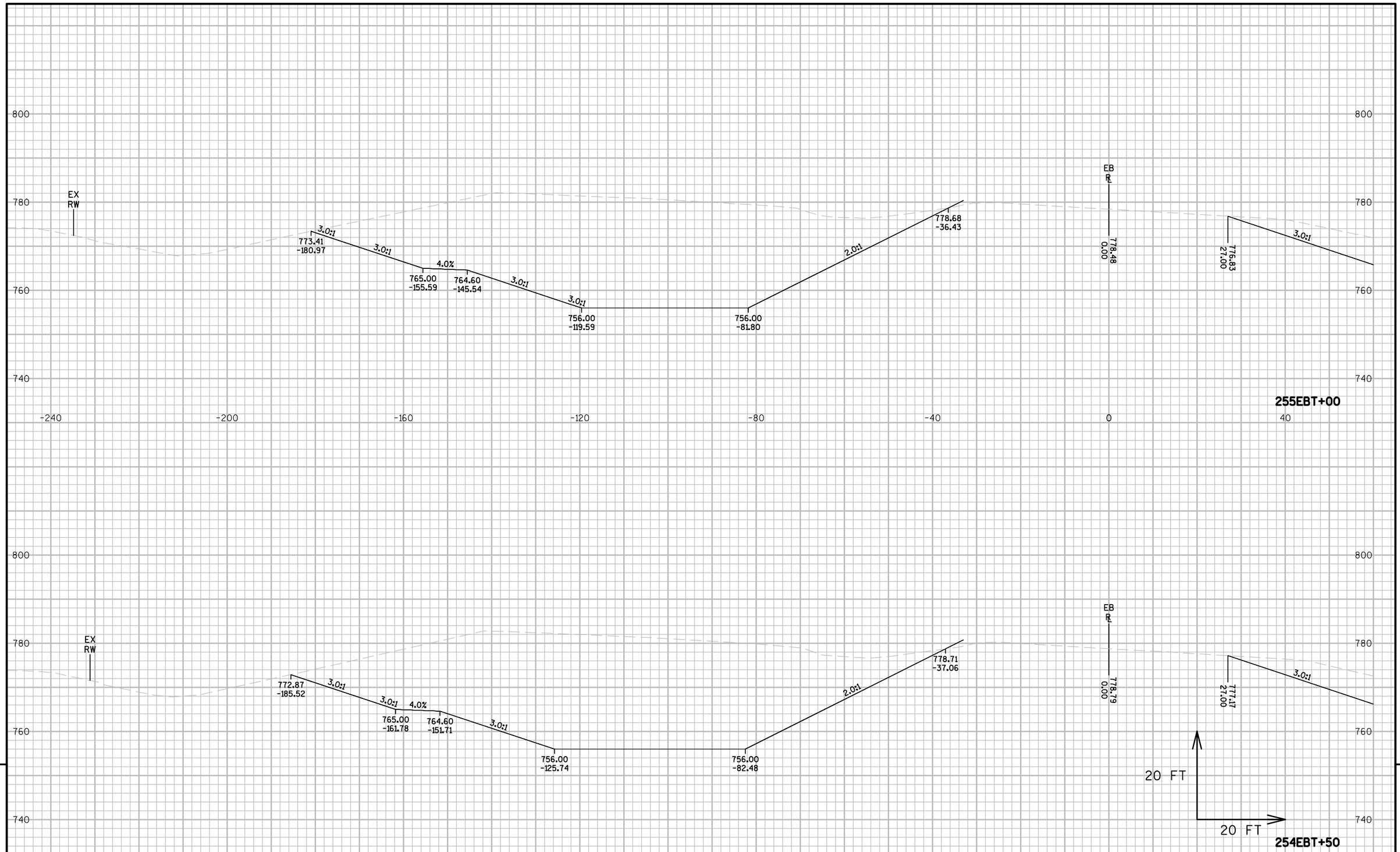


PROJECT NO: 1517-75-72	HWY: STH 441/USH 10	COUNTY: WINNEBAGO	CROSS SECTIONS: TEMPORARY USH 10 EASTBOUND (EBT)-STAGE 1A	SHEET 628	E

FILE NAME : S:\PDS\C3D\WIS441\15177570_72_77_85\SHEETSPLAN\1517-75-72\090200-XS\NE-15177572-090201-XS-EBT-1A.DWG
LAYOUT NAME - 090210-XS-EBT-1A

PLOT DATE : 2/9/2017 2:35 PM PLOT BY : VICKMAN, GARRETT T PLOT NAME : PLOT SCALE : 1 IN:20 FT

WISDOT/CADDS SHEET 49



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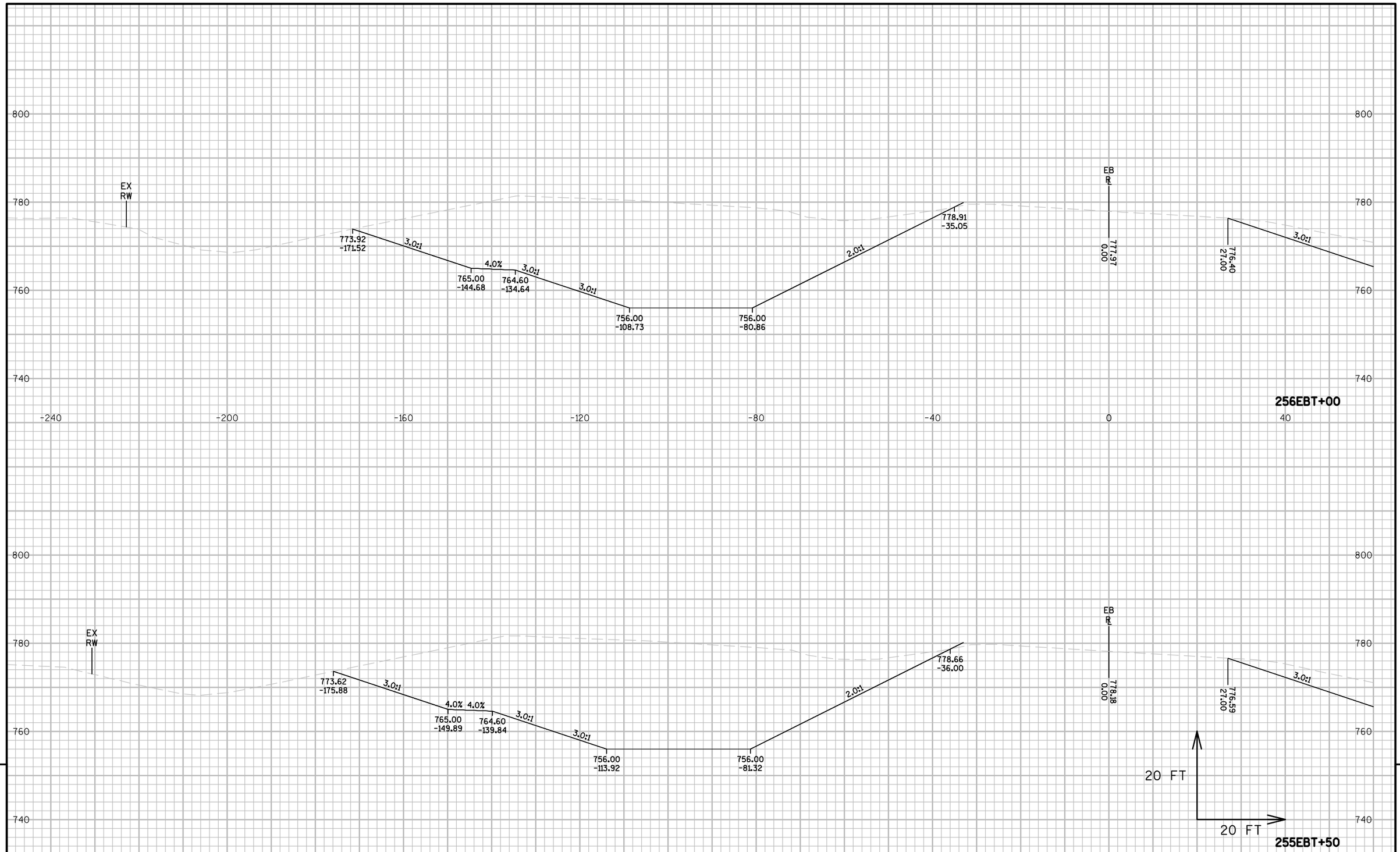
PROJECT NO: 1517-75-72	HWY: STH 441/USH 10	COUNTY: WINNEBAGO	CROSS SECTIONS: TEMPORARY USH 10 EASTBOUND (EBT)-STAGE 1A	SHEET 629	E

FILE NAME : S:\PDS\C3D\WIS441\15177570_72_77_85\SHEETSPLAN\1517-75-72\090200-XS\NE-15177572-090201-XS-EBT-1A.DWG
LAYOUT NAME - 090211-XS-EBT-1A

PLOT DATE : 2/9/2017 2:35 PM PLOT BY : VICKMAN, GARRETT T PLOT NAME : PLOT SCALE : 1 IN:20 FT

WISDOT/CADDS SHEET 49



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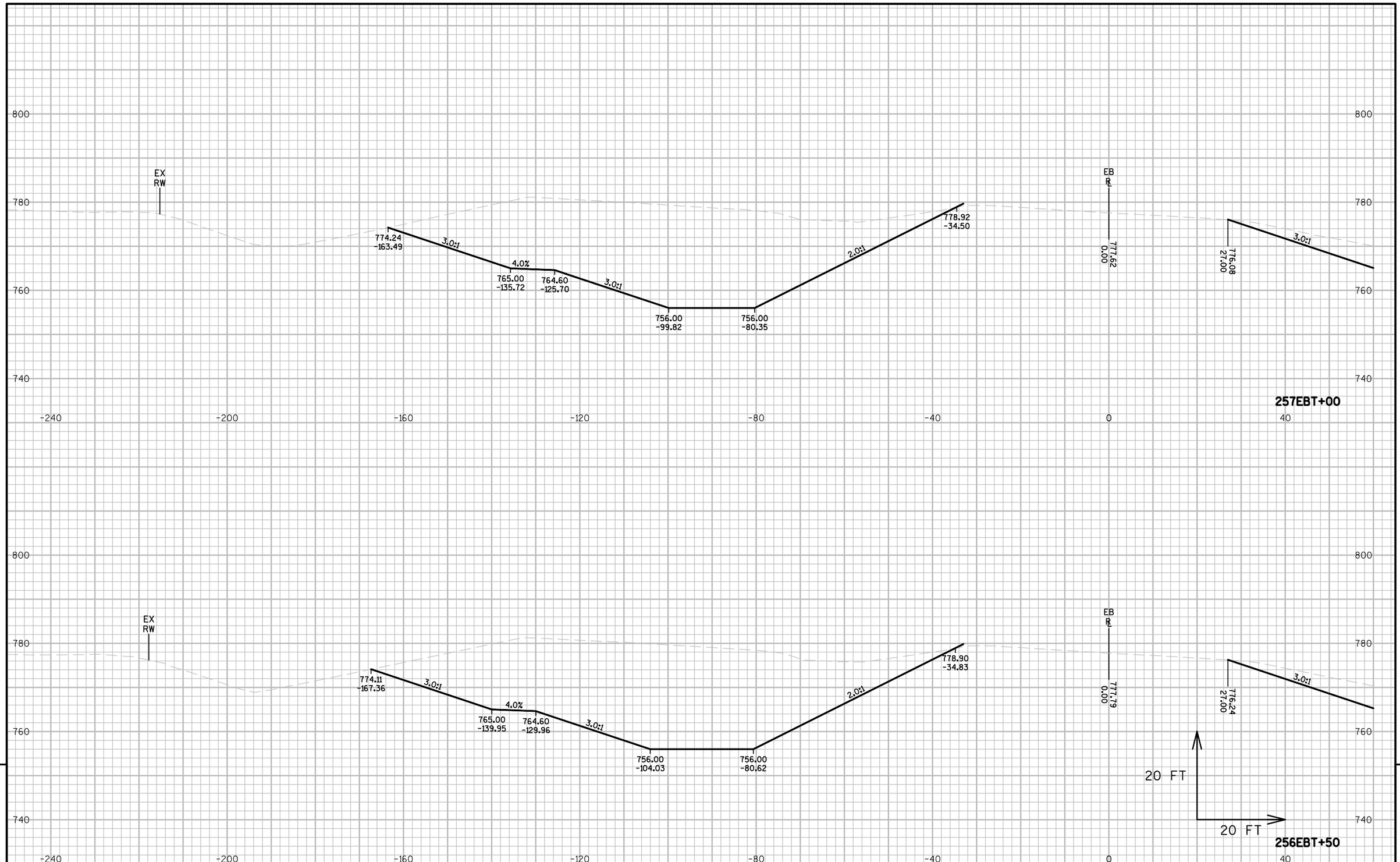
PROJECT NO: 1517-75-72	HWY: STH 441/USH 10	COUNTY: WINNEBAGO	CROSS SECTIONS: TEMPORARY USH 10 EASTBOUND (EBT)-STAGE 1A	SHEET 630	E

FILE NAME : S:\PDS\C3D\WIS441\15177570_72_77_85\SHEETSPLAN\1517-75-72\090200-XS\NE-15177572-090201-XS-EBT-1A.DWG
LAYOUT NAME - 090212-XS-EBT-1A

PLOT DATE : 2/9/2017 2:35 PM PLOT BY : VICKMAN, GARRETT T PLOT NAME : PLOT SCALE : 1 IN:20 FT

WISDOT/CADDS SHEET 49



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PROJECT NO: 1517-75-72	HWY: STH 441/USH 10	COUNTY: WINNEBAGO	CROSS SECTIONS: TEMPORARY USH 10 EASTBOUND (EBT)-STAGE 1A	SHEET 631	E

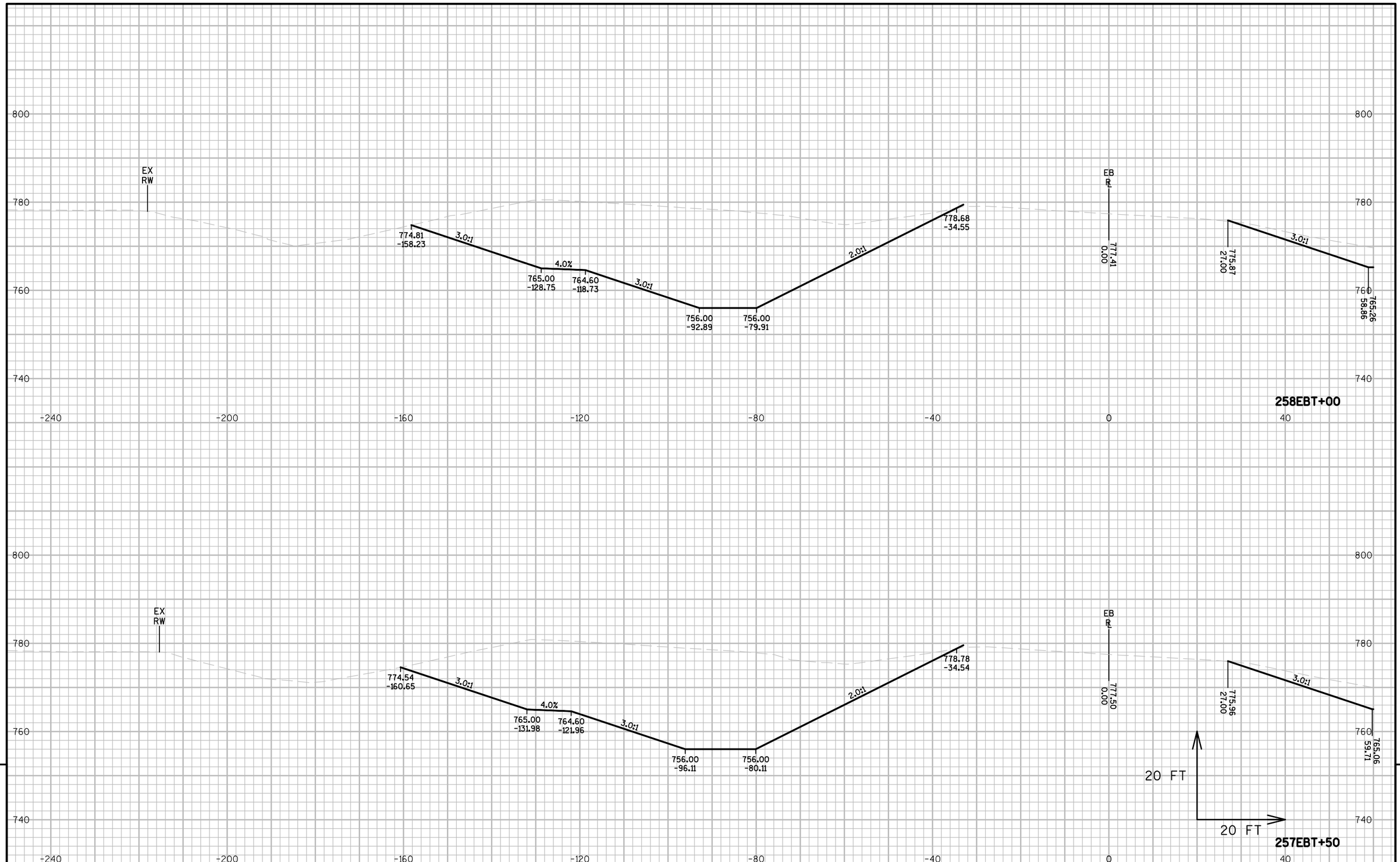
FILE NAME : S:\PDS\C3D\WIS441\15177570_72_77_85\SHEETSPLAN\1517-75-72\090200-XS\NE-15177572-090201-XS-EBT-1A.DWG
LAYOUT NAME - 090213-XS-EBT-1A

PLOT DATE : 2/9/2017 2:35 PM

PLOT BY : VICKMAN, GARRETT T PLOT NAME :

PLOT SCALE : 1 IN:20 FT

WISDOT/CADDS SHEET 49



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PROJECT NO: 1517-75-72	HWY: STH 441/USH 10	COUNTY: WINNEBAGO	CROSS SECTIONS: TEMPORARY USH 10 EASTBOUND (EBT)-STAGE 1A	SHEET 632	E

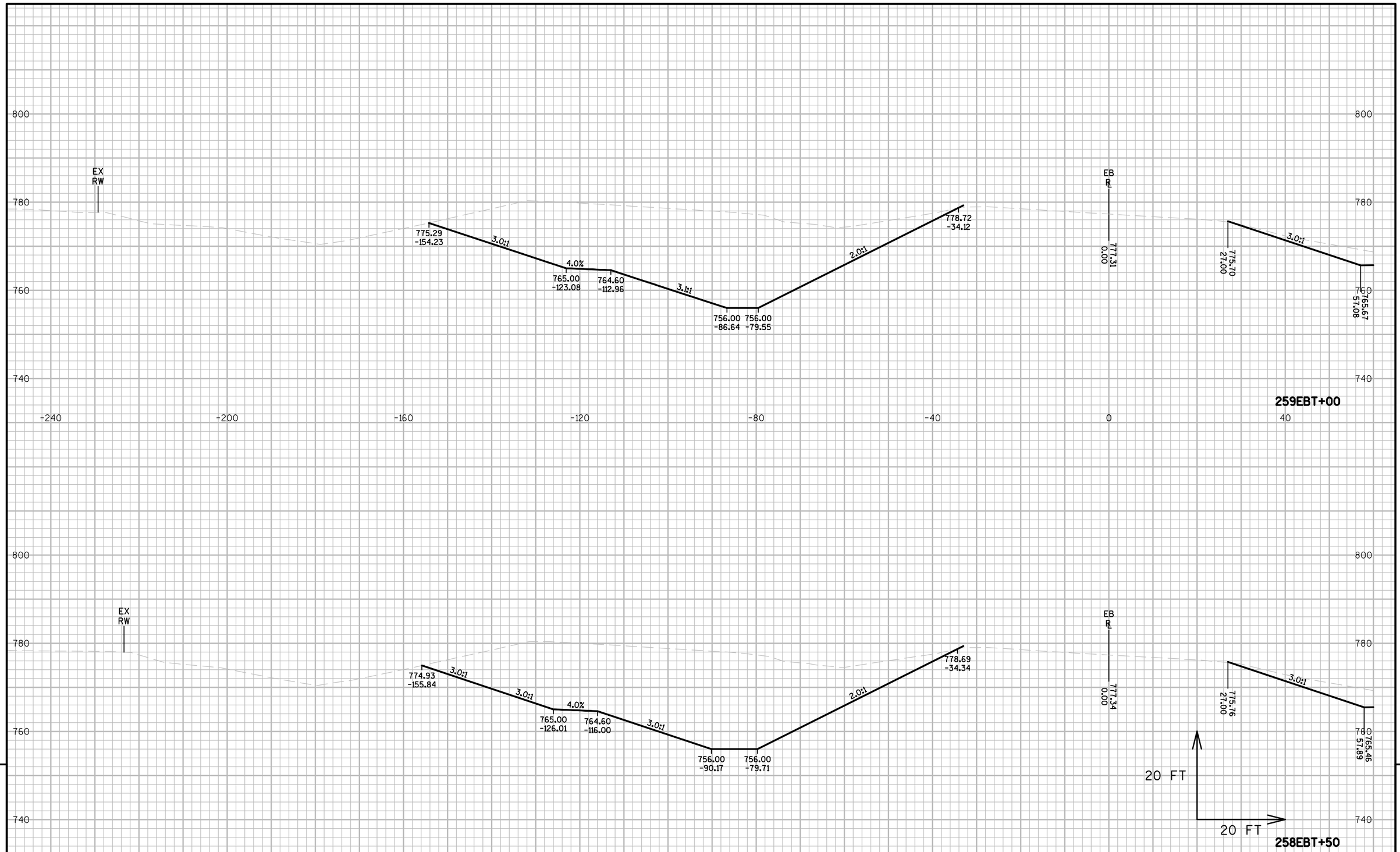
FILE NAME : S:\PDS\C3D\WIS441\15177570_72_77_85\SHEETSPLAN\1517-75-72\090200-XS\NE-15177572-090201-XS-EBT-1A.DWG
LAYOUT NAME - 090214-XS-EBT-1A

PLOT DATE : 2/9/2017 2:35 PM

PLOT BY : VICKMAN, GARRETT T PLOT NAME :

PLOT SCALE : 1 IN:20 FT

WISDOT/CADDS SHEET 49

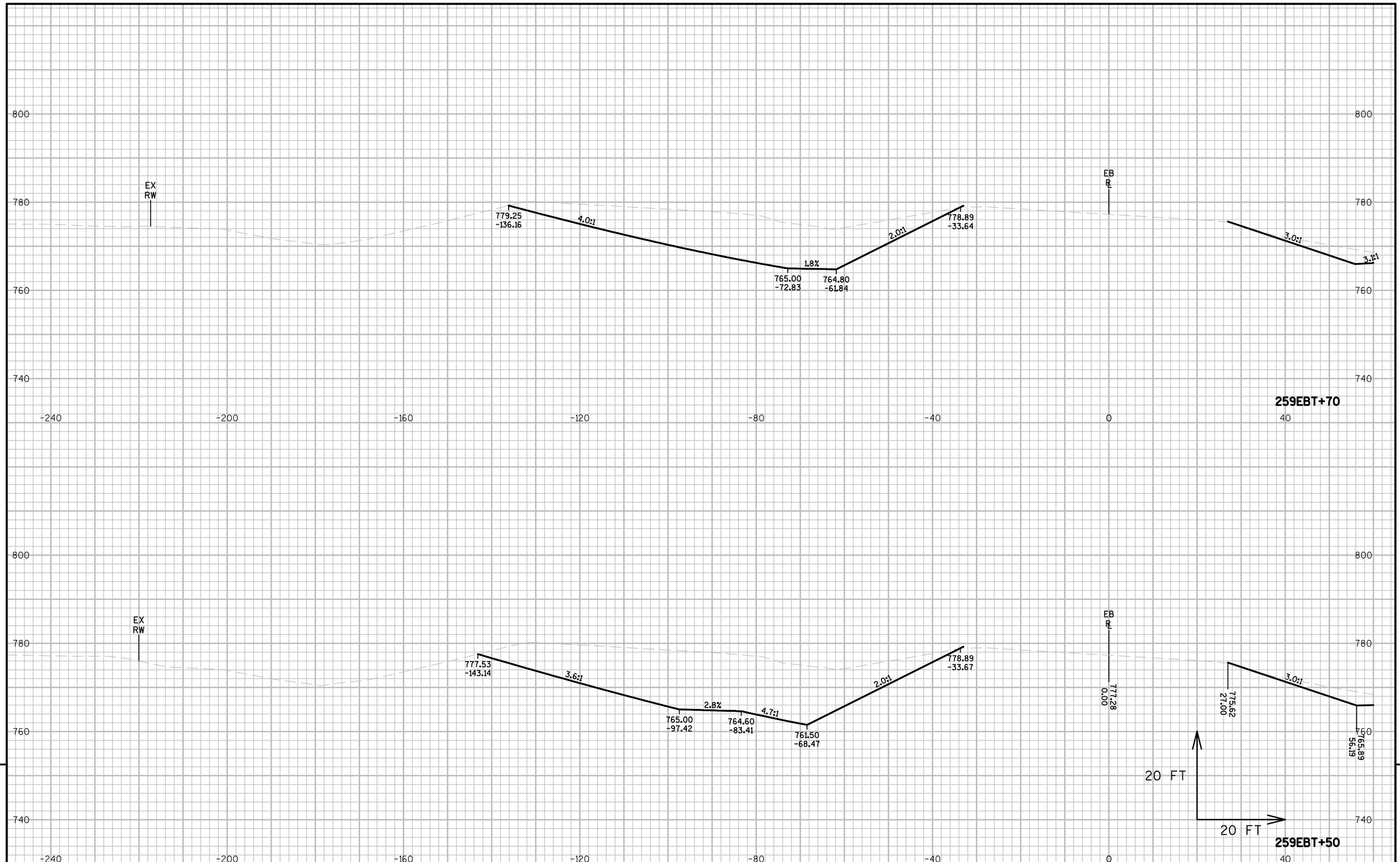


PROJECT NO: 1517-75-72	HWY: STH 441/USH 10	COUNTY: WINNEBAGO	CROSS SECTIONS: TEMPORARY USH 10 EASTBOUND (EBT)-STAGE 1A	SHEET 633	E

FILE NAME : S:\PDS\C3D\WIS441\15177570_72_77_85\SHEETSPLAN\1517-75-72\090200-XS\NE-15177572-090201-XS-EBT-1A.DWG
LAYOUT NAME - 090215-XS-EBT-1A

PLOT DATE : 2/9/2017 2:36 PM PLOT BY : VICKMAN, GARRETT T PLOT NAME : PLOT SCALE : 1 IN:20 FT

WISDOT/CADDS SHEET 49



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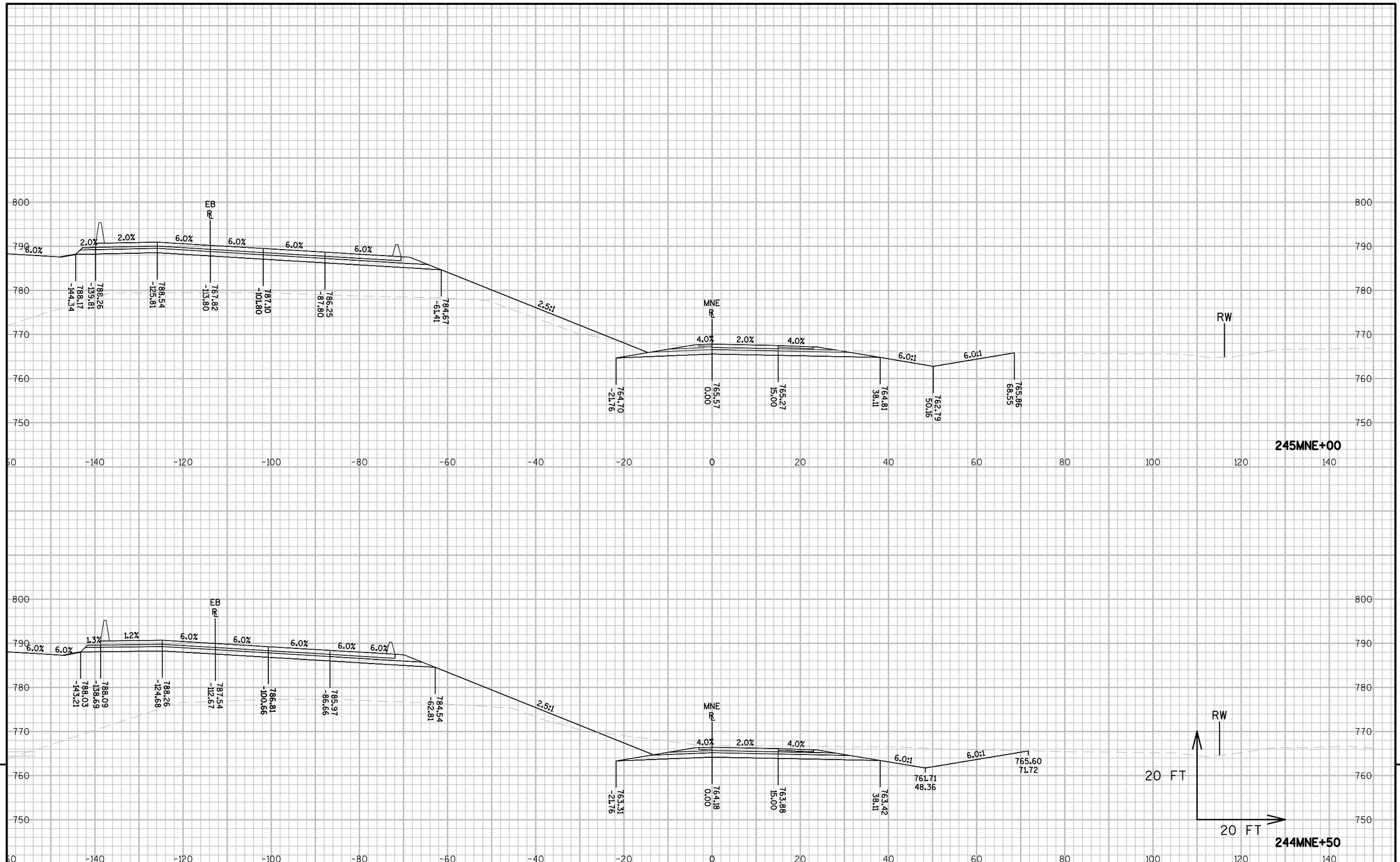
PROJECT NO: 1517-75-72	HWY: STH 441/USH 10	COUNTY: WINNEBAGO	CROSS SECTIONS: TEMPORARY USH 10 EASTBOUND (EBT)-STAGE 1A	SHEET 634	E

FILE NAME : S:\PDS\C3D\WIS441\15177570_72_77_85\SHEETSPLAN\1517-75-72\090200-XS\NE-15177572-090201-XS-EBT-1A.DWG
LAYOUT NAME - 090216-XS-EBT-1A
PLOT DATE : 2/9/2017 2:36 PM
PLOT BY : VICKMAN, GARRETT T PLOT NAME :
PLOT SCALE : 1 IN:20 FT
WISDOT/CADDS SHEET 49

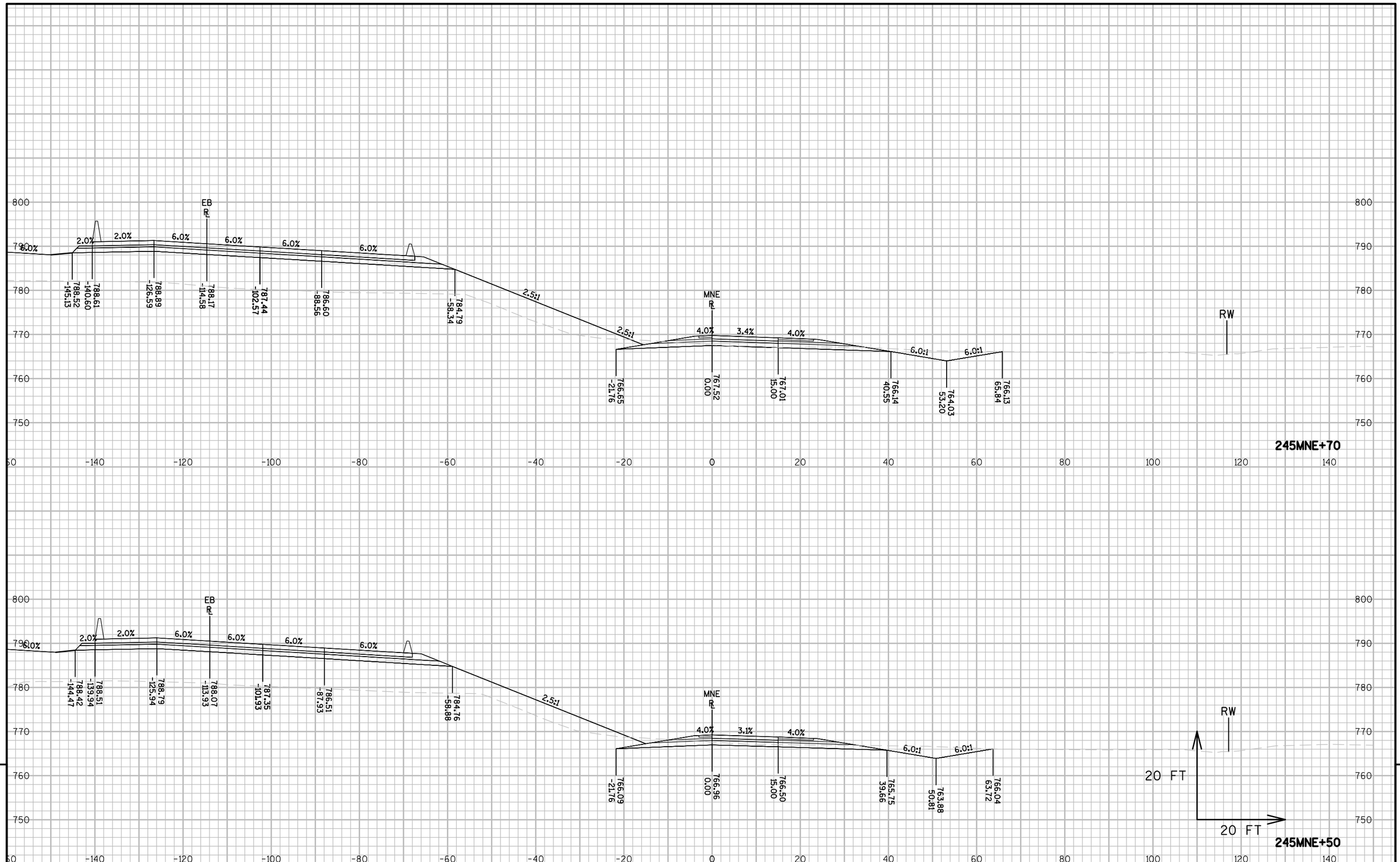


PROJECT NO: 1517-75-72	HWY: STH 441/USH 10	COUNTY: WINNEBAGO	CROSS SECTIONS: MIDWAY ROAD NE RAMP (MNE)-STAGE 1A	SHEET 635	E

FILE NAME : S:\PDS\C3D\WIS441\15177570_72_77_85\SHEETSPLAN\1517-75-72\090200-XS\NE-15177572-090401-XS-MNE.DWG
LAYOUT NAME - 090401-XS-MNE

PLOT DATE : 2/9/2017 3:35 PM PLOT BY : VICKMAN, GARRETT T PLOT NAME : PLOT SCALE : 1 IN:20 FT

WISDOT/CADDS SHEET 49



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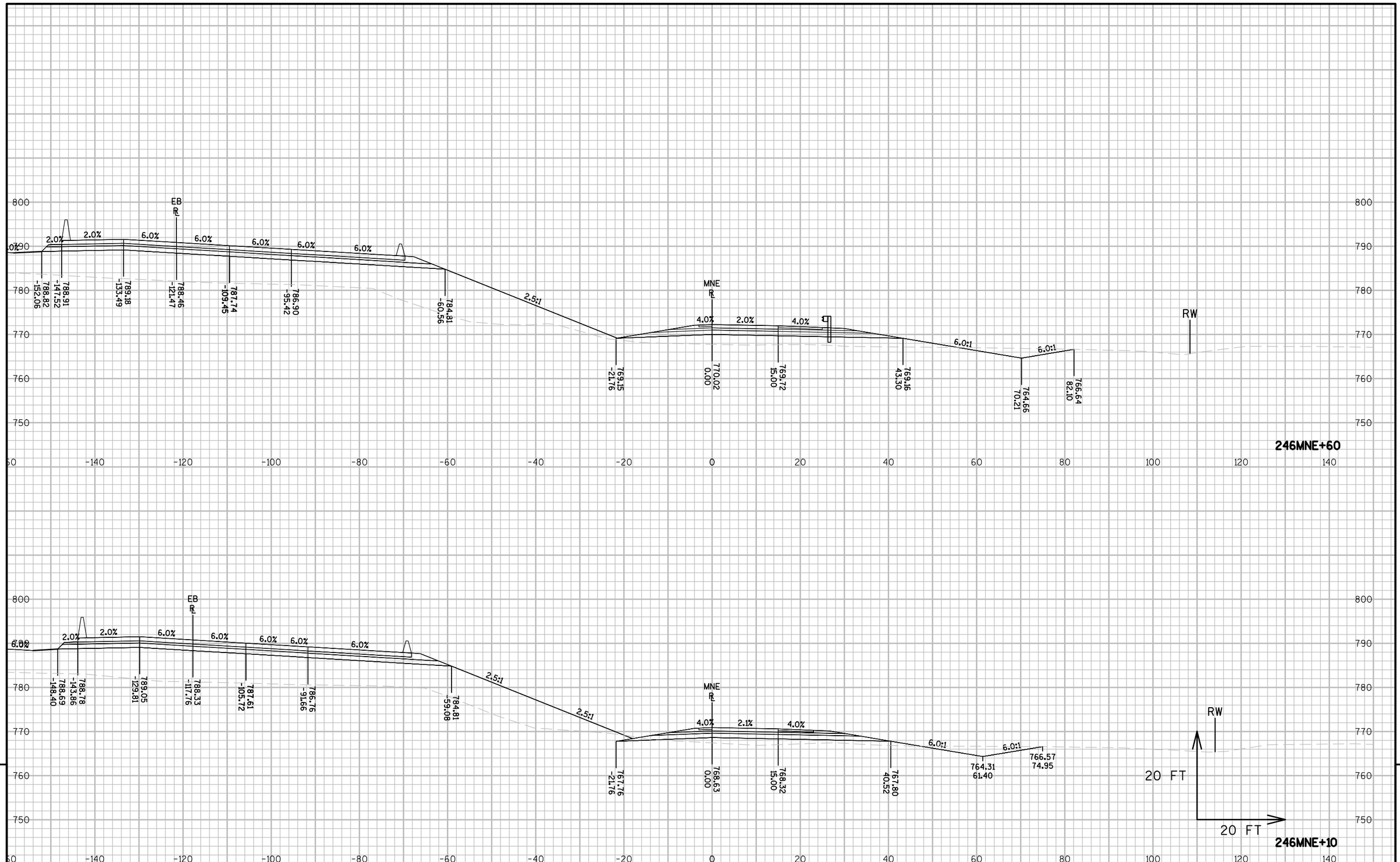
PROJECT NO: 1517-75-72	HWY: STH 441/USH 10	COUNTY: WINNEBAGO	CROSS SECTIONS: MIDWAY ROAD NE RAMP (MNE)-STAGE 1A	SHEET 636	E

FILE NAME : S:\PDS\C3D\WIS441\15177570_72_77_85\SHEETSPLAN\1517-75-72\090200-XS\NE-15177572-090401-XS-MNE.DWG
LAYOUT NAME - 090402-XS-MNE
PLOT DATE : 2/9/2017 3:36 PM
PLOT BY : VICKMAN, GARRETT T PLOT NAME :
PLOT SCALE : 1 IN:20 FT



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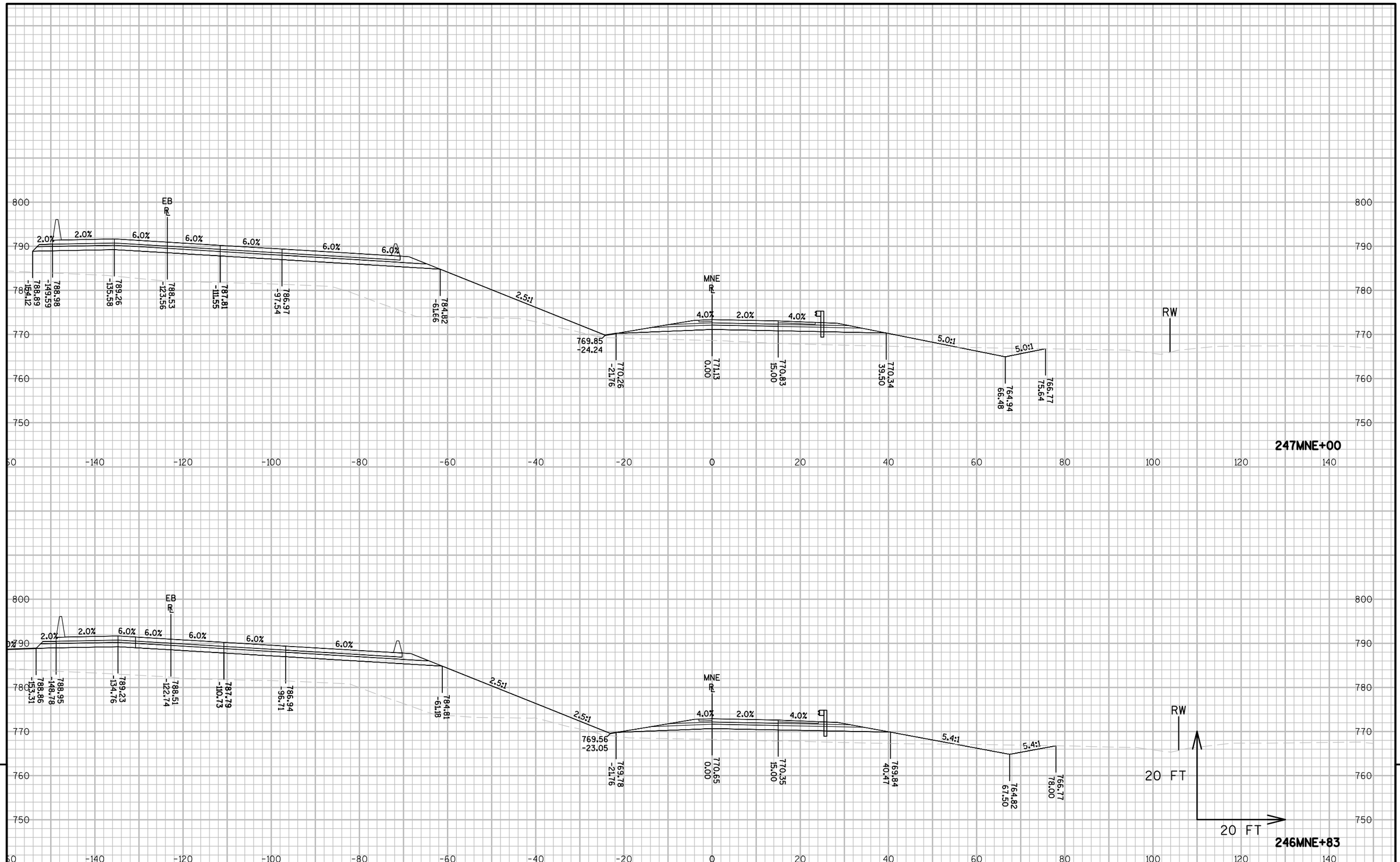
PROJECT NO: 1517-75-72	HWY: STH 441/USH 10	COUNTY: WINNEBAGO	CROSS SECTIONS: MIDWAY ROAD NE RAMP (MNE)-STAGE 1A	SHEET 637	E

FILE NAME : S:\PDS\C3D\WIS441\15177570_72_77_85\SHEETSPLAN\1517-75-72\090200-XS\NE-15177572-090401-XS-MNE.DWG
LAYOUT NAME - 090403-XS-MNE

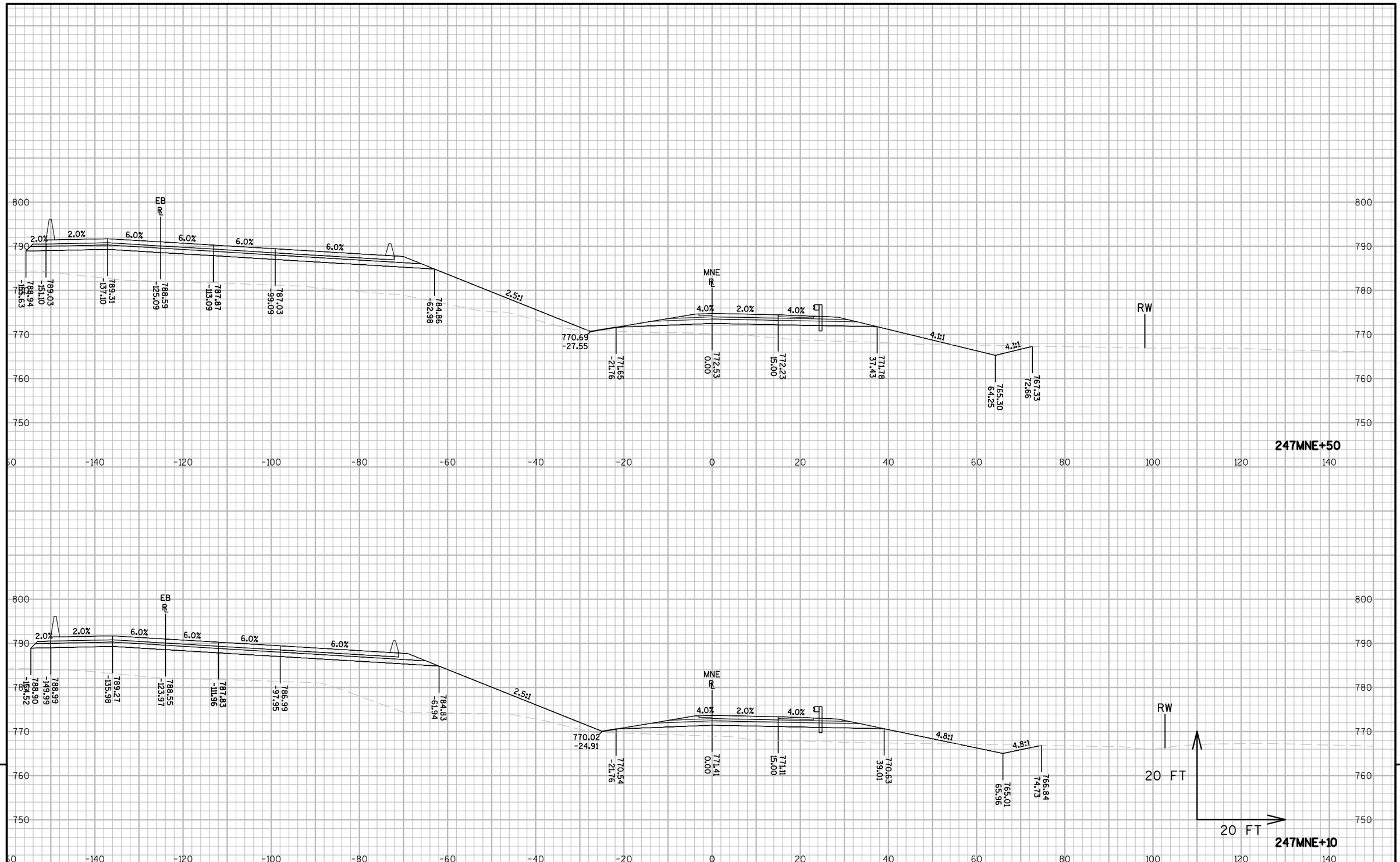
PLOT DATE : 2/9/2017 3:36 PM PLOT BY : VICKMAN, GARRETT T PLOT NAME : PLOT SCALE : 1 IN:20 FT



PROJECT NO: 1517-75-72	HWY: STH 441/USH 10	COUNTY: WINNEBAGO	CROSS SECTIONS: MIDWAY ROAD NE RAMP (MNE)-STAGE 1A	SHEET 638	E

FILE NAME : S:\PDS\C3D\WIS441\15177570_72_77_85\SHEETSPLAN\1517-75-72\090200-XS\NE-15177572-090401-XS-MNE.DWG
LAYOUT NAME - 090404-XS-MNE

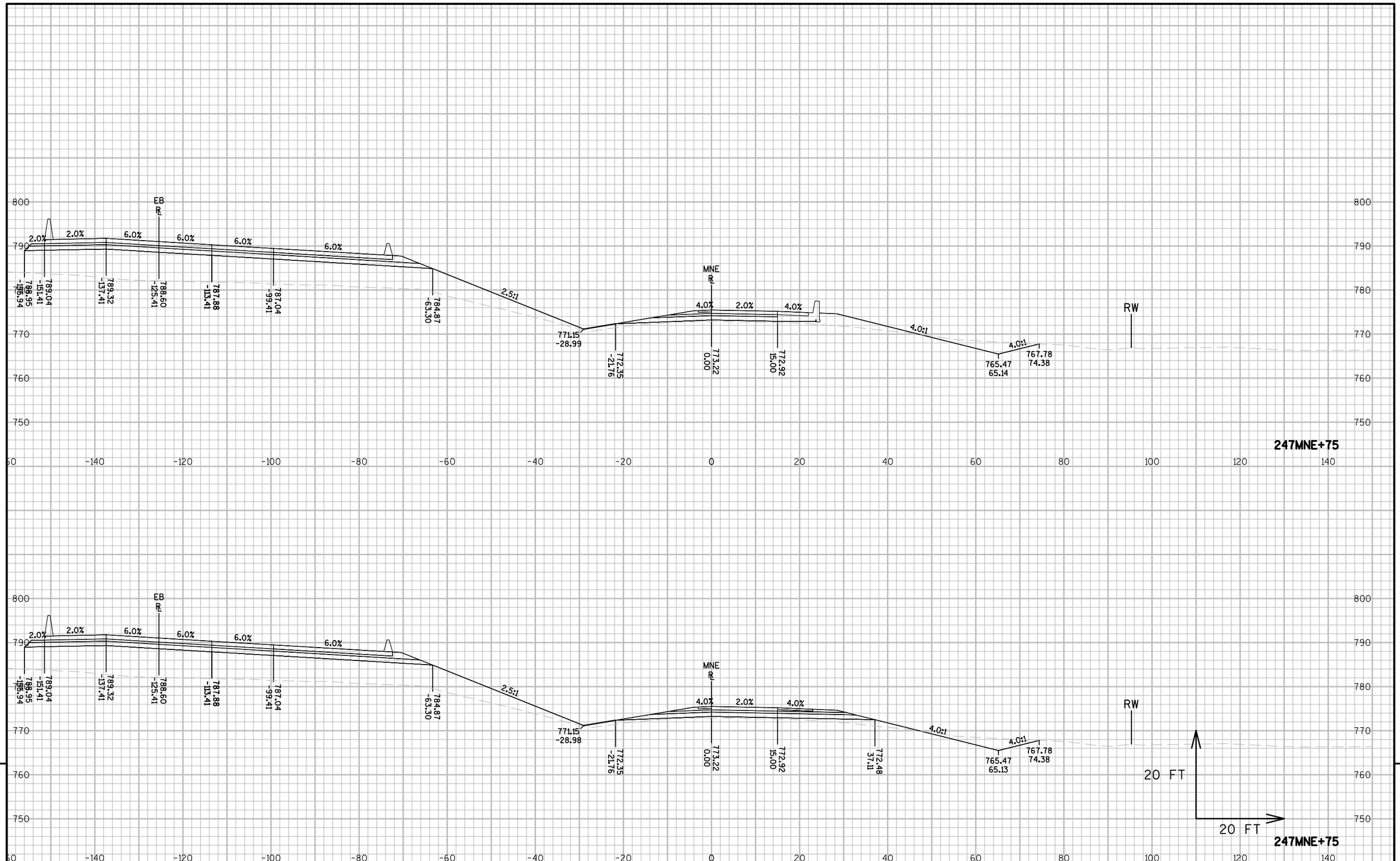
PLOT DATE : 2/9/2017 3:36 PM PLOT BY : VICKMAN, GARRETT T PLOT NAME : PLOT SCALE : 1 IN:20 FT



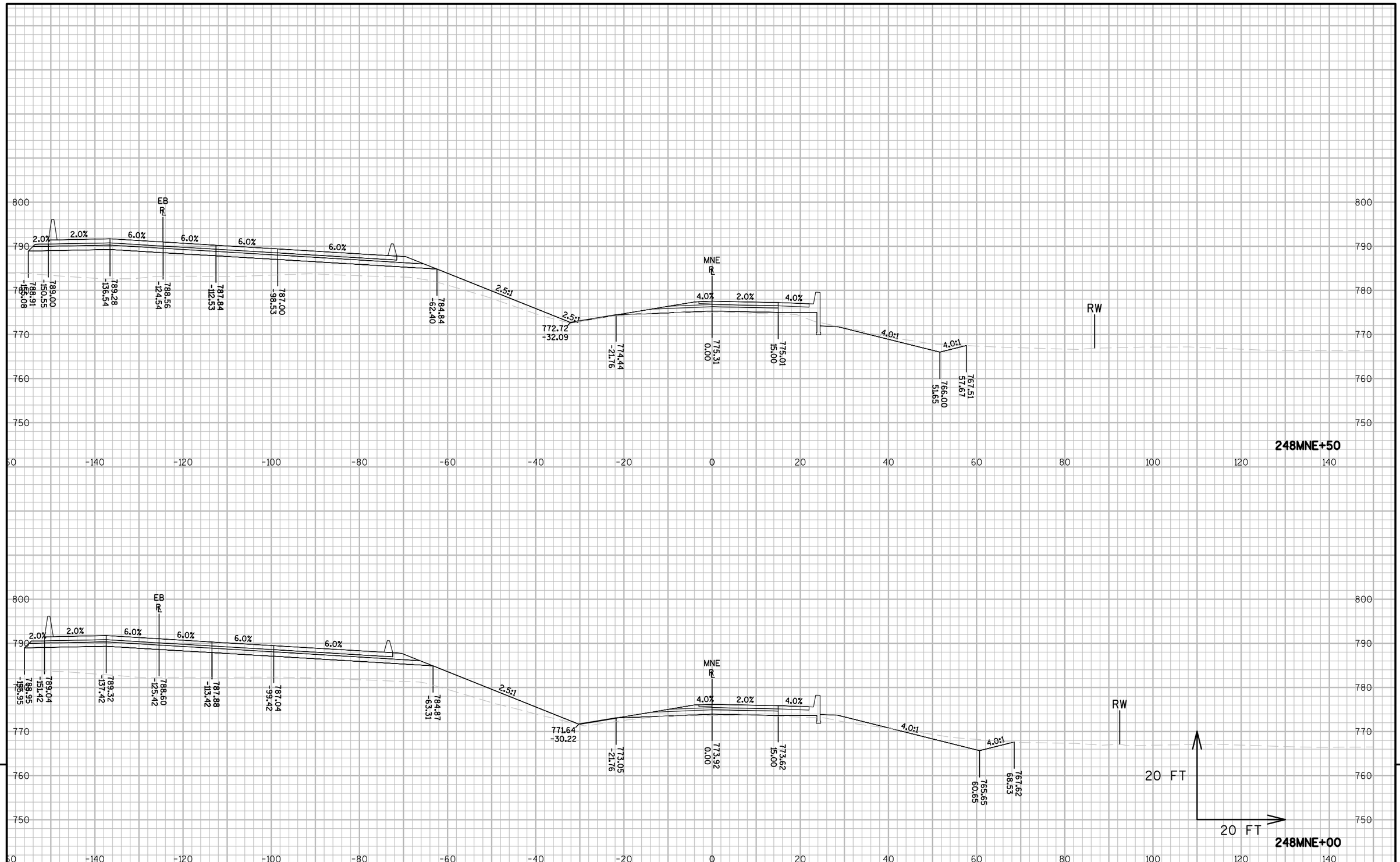
PROJECT NO: 1517-75-72	HWY: STH 441/USH 10	COUNTY: WINNEBAGO	CROSS SECTIONS: MIDWAY ROAD NE RAMP (MNE)-STAGE 1A	SHEET 639	E

FILE NAME : S:\PDS\C3D\WIS441\15177570_72_77_85\SHEETSPLAN\1517-75-72\090200-XS\NE-15177572-090401-XS-MNE.DWG
LAYOUT NAME - 090405-XS-MNE

PLOT DATE : 2/9/2017 3:36 PM PLOT BY : VICKMAN, GARRETT T PLOT NAME : PLOT SCALE : 1 IN:20 FT



PROJECT NO: 1517-75-72	HWY: STH 441/USH 10	COUNTY: WINNEBAGO	CROSS SECTIONS: MIDWAY ROAD NE RAMP (MNE)-STAGE 1A	SHEET 640	E



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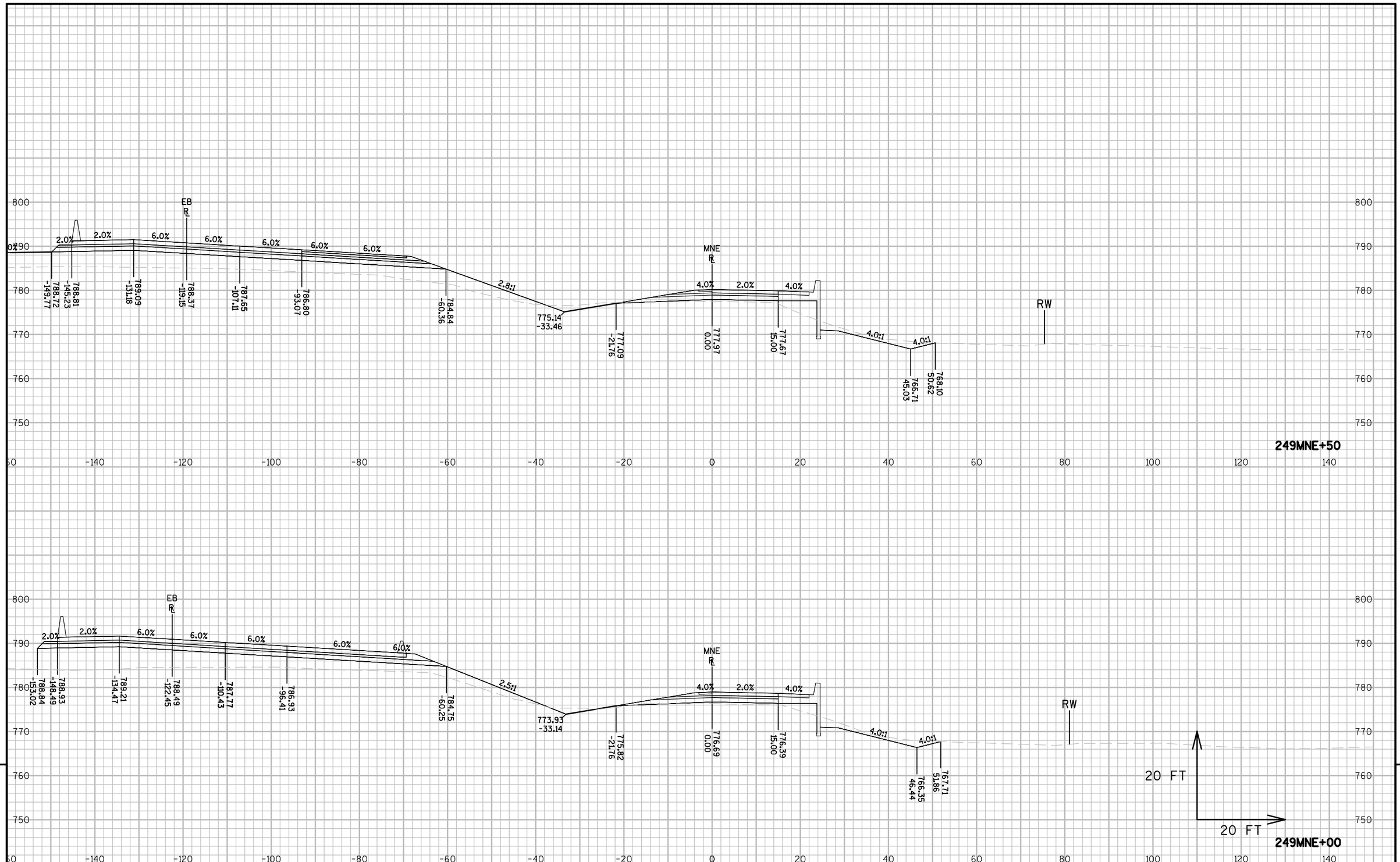
PROJECT NO: 1517-75-72	HWY: STH 441/USH 10	COUNTY: WINNEBAGO	CROSS SECTIONS: MIDWAY ROAD NE RAMP (MNE)-STAGE 1A	SHEET 641	E

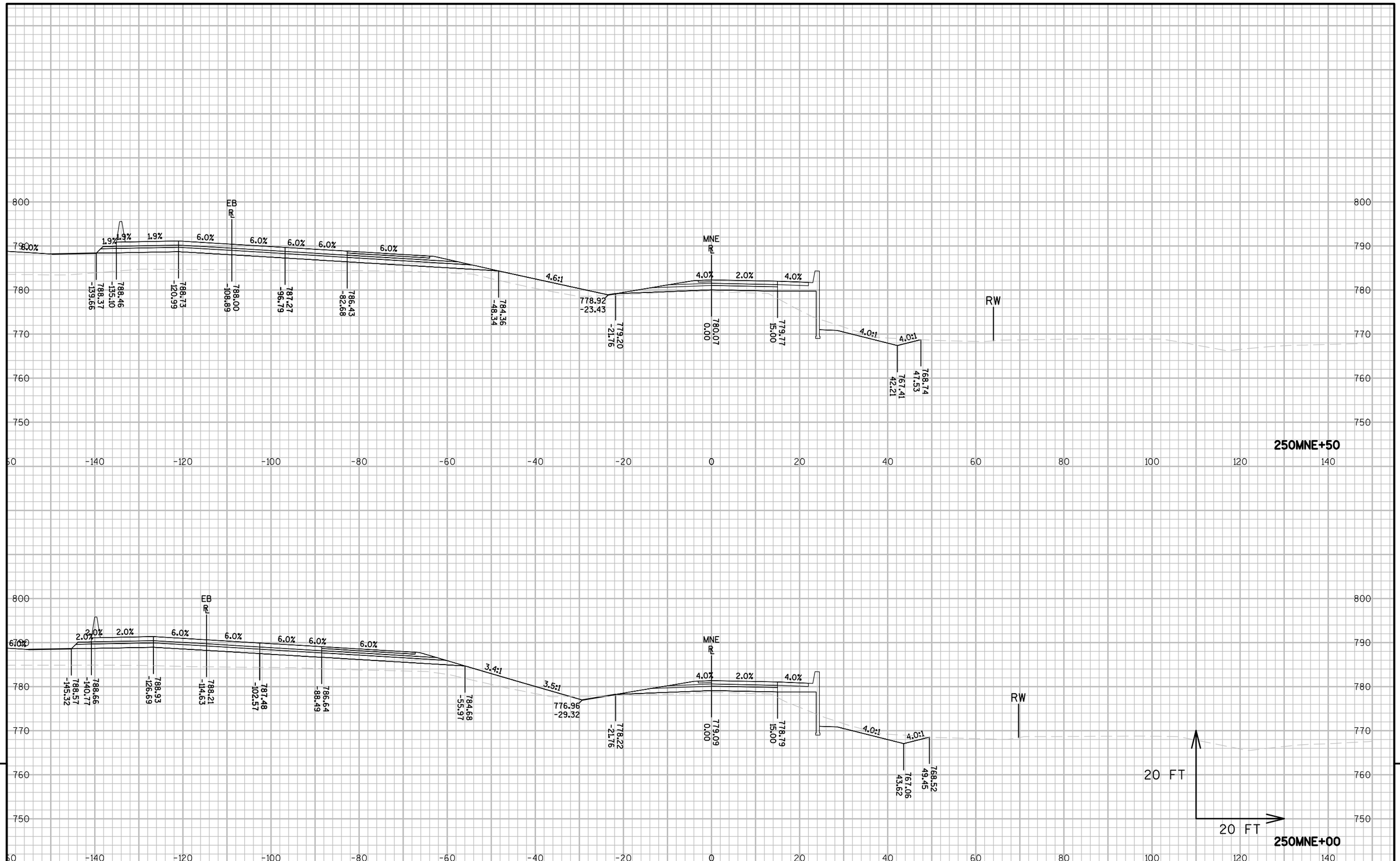
FILE NAME : S:\PDS\C3D\WIS441\15177570_72_77_85\SHEETSPLAN\1517-75-72\090200-XS\NE-15177572-090401-XS-MNE.DWG
LAYOUT NAME - 090407-XS-MNE

PLOT DATE : 2/9/2017 3:36 PM PLOT BY : VICKMAN, GARRETT T PLOT NAME : PLOT SCALE : 1 IN:20 FT



PROJECT NO: 1517-75-72	HWY: STH 441/USH 10	COUNTY: WINNEBAGO	CROSS SECTIONS: MIDWAY ROAD NE RAMP (MNE)-STAGE 1A	SHEET 642 E

FILE NAME : S:\PDS\C3D\WIS441\15177570_72_77_85\SHEETSPLAN\1517-75-72\090200-XS\NE-15177572-090401-XS-MNE.DWG
LAYOUT NAME - 090408-XS-MNE
PLOT DATE : 2/9/2017 3:36 PM PLOT BY : VICKMAN, GARRETT T PLOT NAME : PLOT SCALE : 1 IN:20 FT
WISDOT/CADDS SHEET 49

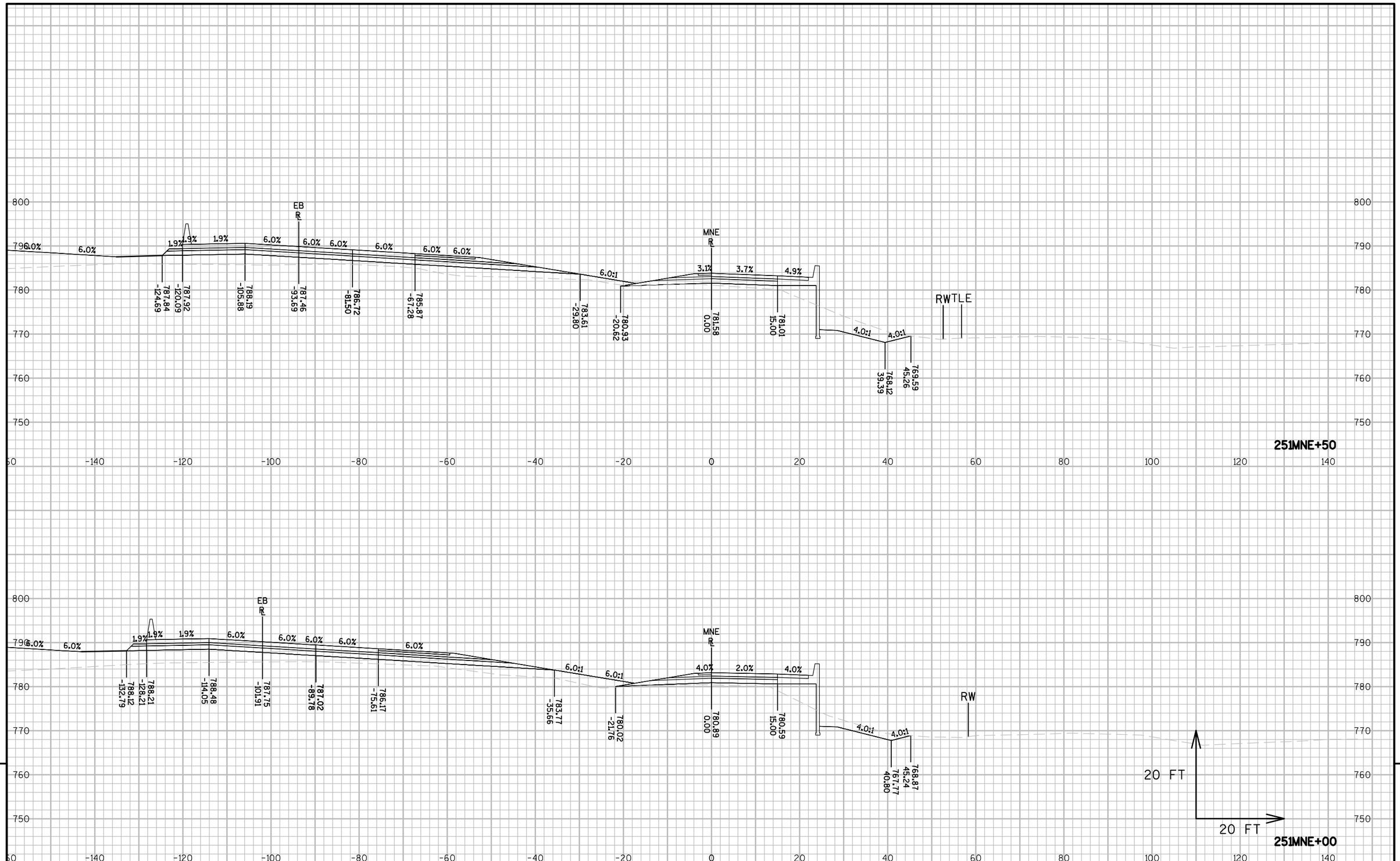


PROJECT NO: 1517-75-72	HWY: STH 441/USH 10	COUNTY: WINNEBAGO	CROSS SECTIONS: MIDWAY ROAD NE RAMP (MNE)-STAGE 1A	SHEET 643	E

FILE NAME : S:\PDS\C3D\WIS441\15177570_72_77_85\SHEETSPLAN\1517-75-72\090200-XS\NE-15177572-090401-XS-MNE.DWG
LAYOUT NAME - 090409-XS-MNE

PLOT DATE : 2/9/2017 3:36 PM PLOT BY : VICKMAN, GARRETT T PLOT NAME : PLOT SCALE : 1 IN:20 FT

WISDOT/CADDS SHEET 49

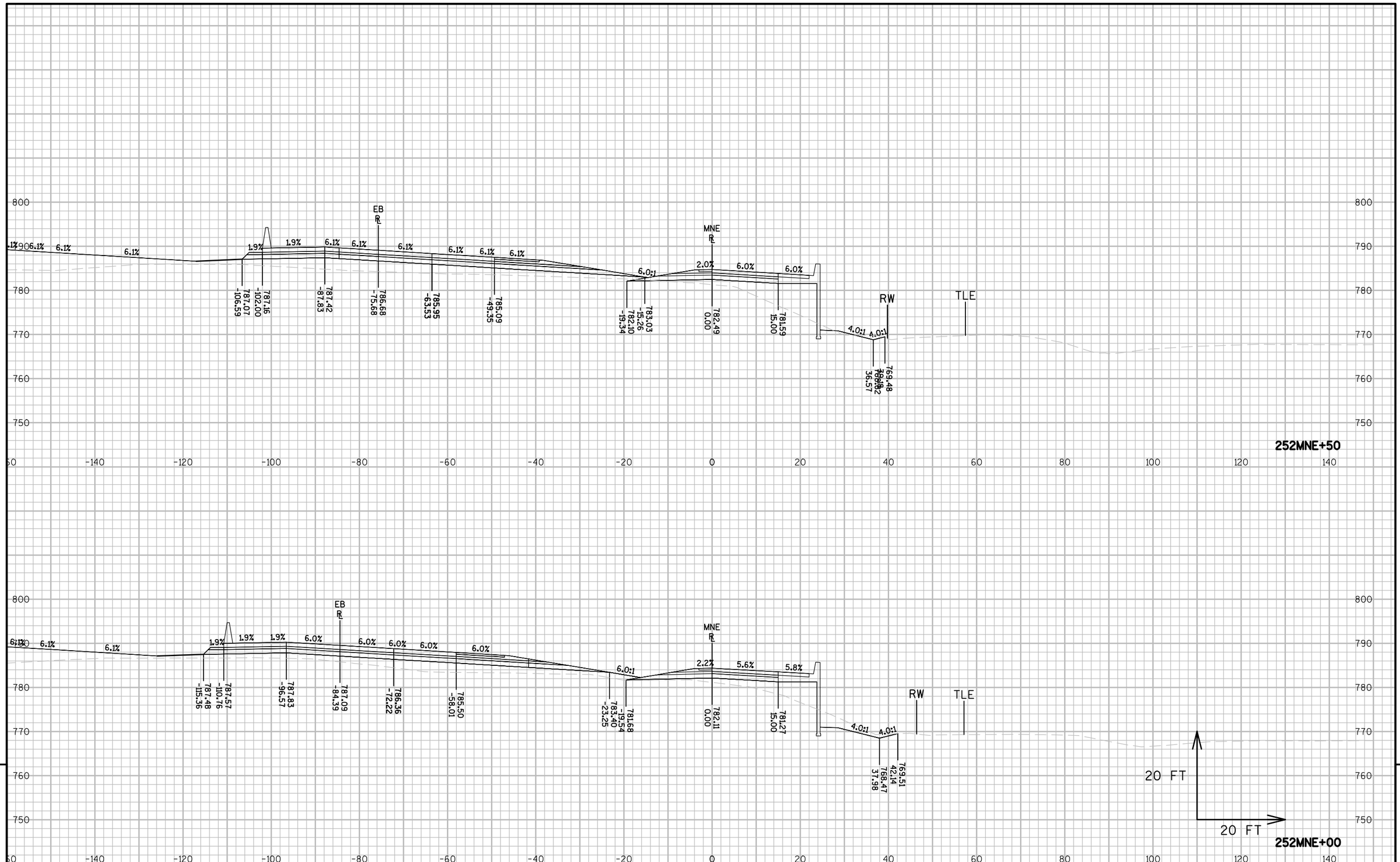


PROJECT NO: 1517-75-72	HWY: STH 441/USH 10	COUNTY: WINNEBAGO	CROSS SECTIONS: MIDWAY ROAD NE RAMP (MNE)-STAGE 1A	SHEET 644	E

FILE NAME : S:\PDS\C3D\WIS441\15177570_72_77_85\SHEETSPLAN\1517-75-72\090200-XS\NE-15177572-090401-XS-MNE.DWG
LAYOUT NAME - 090410-XS-MNE

PLOT DATE : 2/9/2017 3:37 PM PLOT BY : VICKMAN, GARRETT T PLOT NAME : PLOT SCALE : 1 IN:20 FT

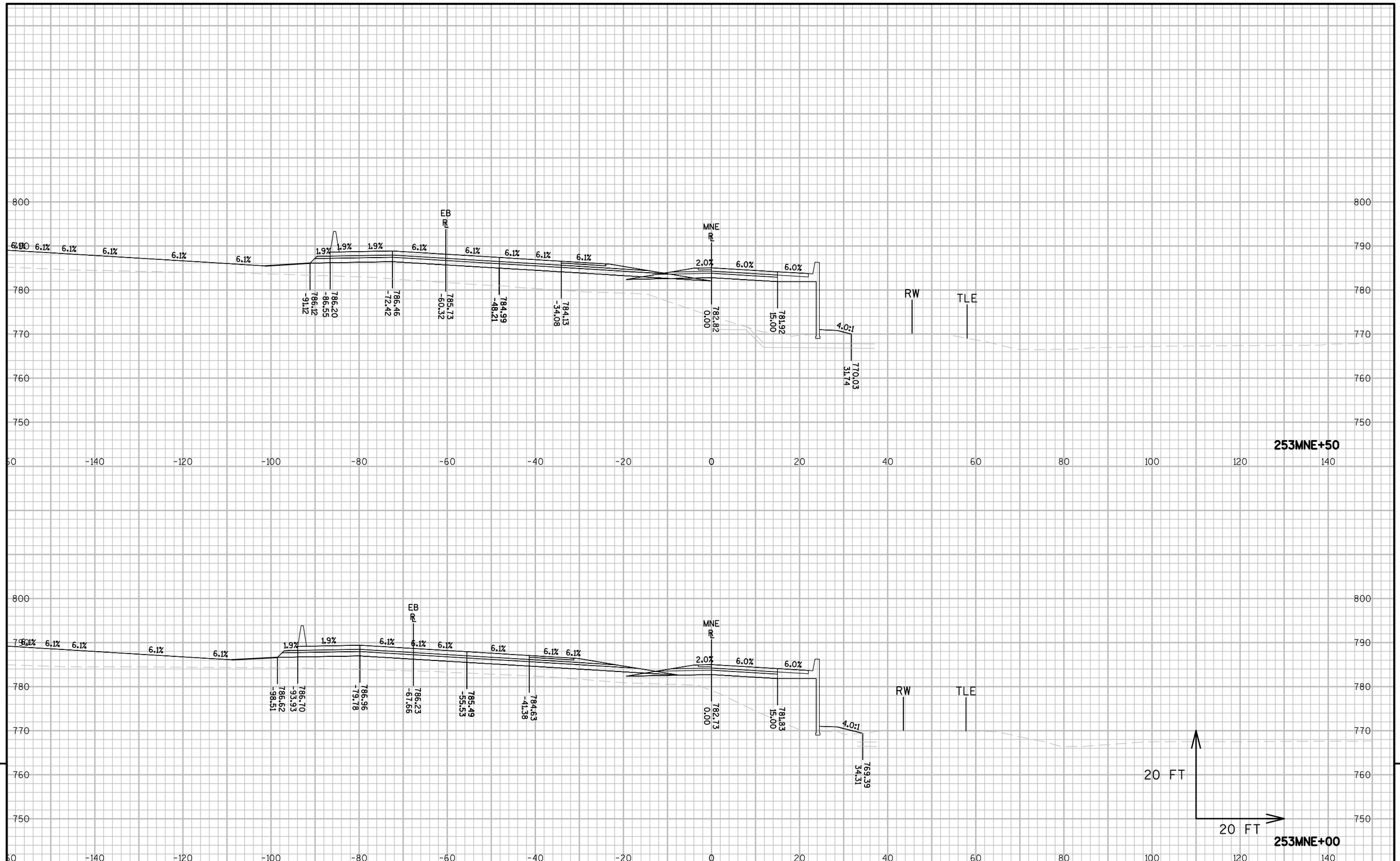
WISDOT/CADDS SHEET 49



PROJECT NO: 1517-75-72	HWY: STH 441/USH 10	COUNTY: WINNEBAGO	CROSS SECTIONS: MIDWAY ROAD NE RAMP (MNE)-STAGE 1A	SHEET 645	E

FILE NAME : S:\PDS\C3D\WIS441\15177570_72_77_85\SHEETSPLAN\1517-75-72\090200-XS\NE-15177572-090401-XS-MNE.DWG
LAYOUT NAME - 090411-XS-MNE

PLOT DATE : 2/9/2017 3:37 PM PLOT BY : VICKMAN, GARRETT T PLOT NAME : PLOT SCALE : 1 IN:20 FT



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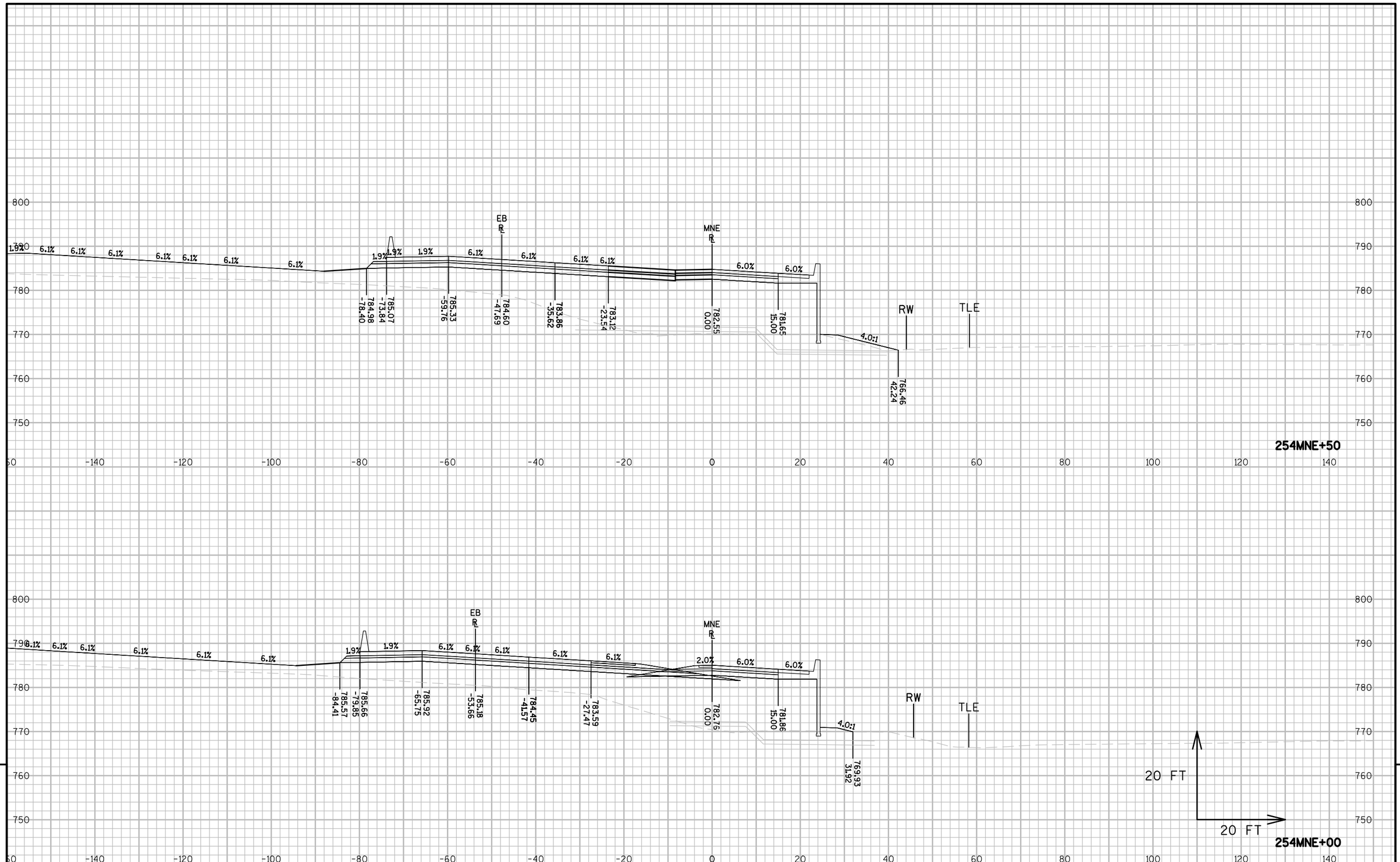
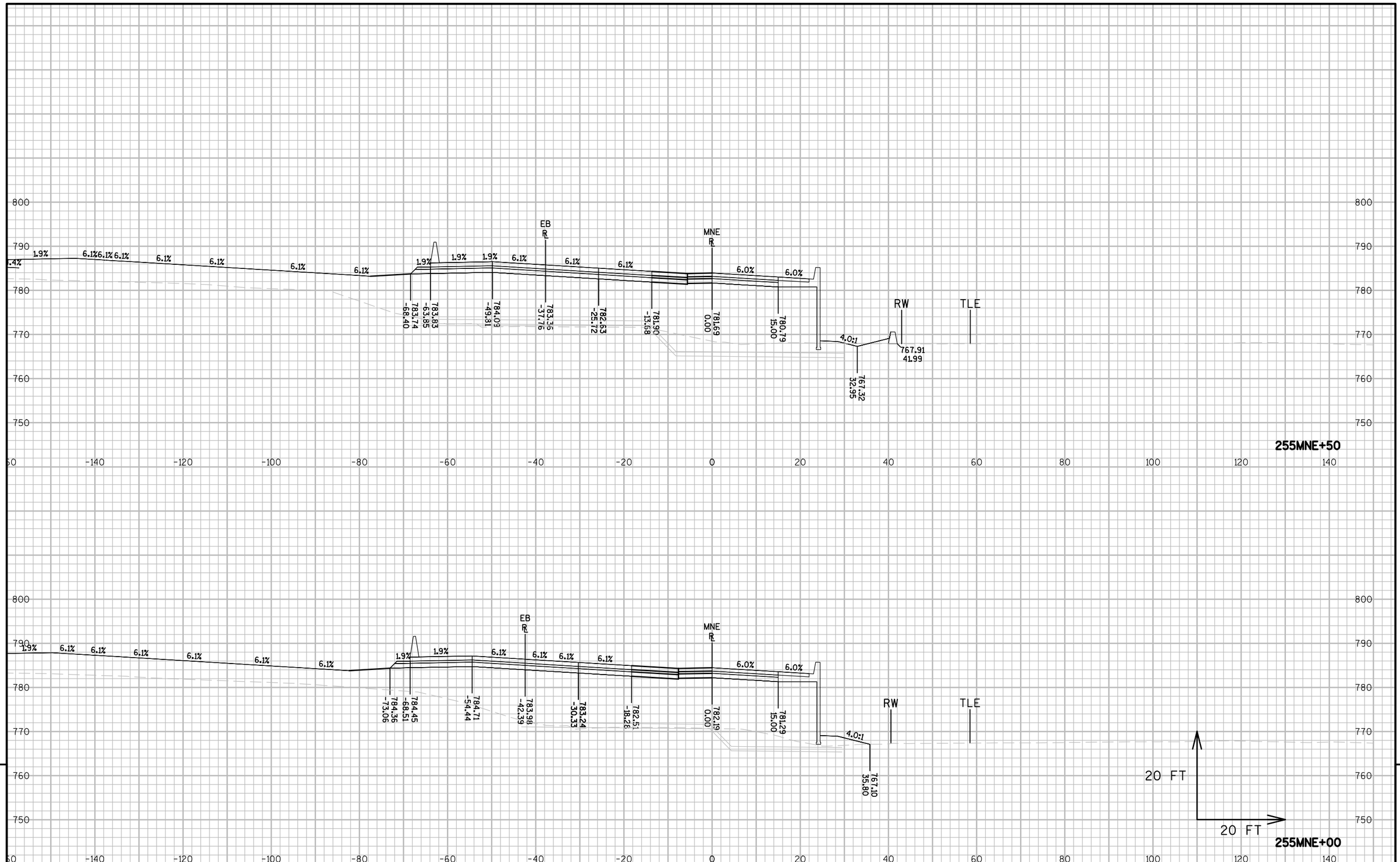
PROJECT NO: 1517-75-72	HWY: STH 441/USH 10	COUNTY: WINNEBAGO	CROSS SECTIONS: MIDWAY ROAD NE RAMP (MNE)-STAGE 1A	SHEET 646	E

FILE NAME : S:\PDS\C3D\WIS441\15177570_72_77_85\SHEETSPLAN\1517-75-72\090200-XS\NE-15177572-090401-XS-MNE.DWG
LAYOUT NAME - 090412-XS-MNE
PLOT DATE : 2/9/2017 3:37 PM
PLOT BY : VICKMAN, GARRETT T PLOT NAME :
PLOT SCALE : 1 IN:20 FT



PROJECT NO: 1517-75-72	HWY: STH 441/USH 10	COUNTY: WINNEBAGO	CROSS SECTIONS: MIDWAY ROAD NE RAMP (MNE)-STAGE 1A	SHEET 647	E

FILE NAME : S:\PDS\C3D\WIS441\15177570_72_77_85\SHEETSPLAN\1517-75-72\090200-XS\NE-15177572-090401-XS-MNE.DWG
LAYOUT NAME - 090413-XS-MNE
PLOT DATE : 2/9/2017 3:37 PM
PLOT BY : VICKMAN, GARRETT T PLOT NAME :
PLOT SCALE : 1 IN:20 FT



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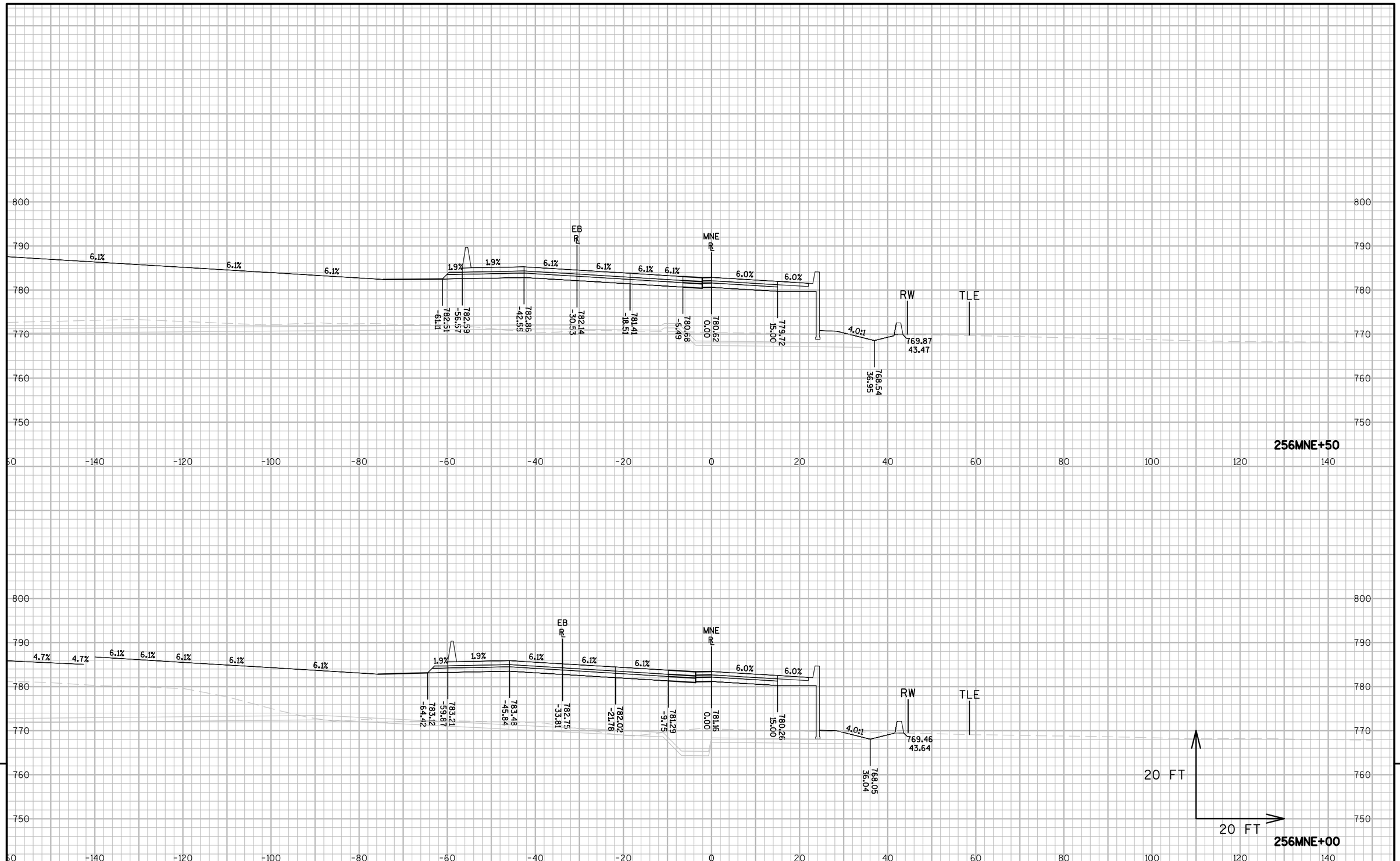
PROJECT NO: 1517-75-72	HWY: STH 441/USH 10	COUNTY: WINNEBAGO	CROSS SECTIONS: MIDWAY ROAD NE RAMP (MNE)-STAGE 1A	SHEET 648	E

FILE NAME : S:\PDS\C3D\WIS441\15177570_72_77_85\SHEETSPLAN\1517-75-72\090200-XS\NE-15177572-090401-XS-MNE.DWG
LAYOUT NAME - 090414-XS-MNE

PLOT DATE : 2/9/2017 3:37 PM PLOT BY : VICKMAN, GARRETT T PLOT NAME : PLOT SCALE : 1 IN:20 FT



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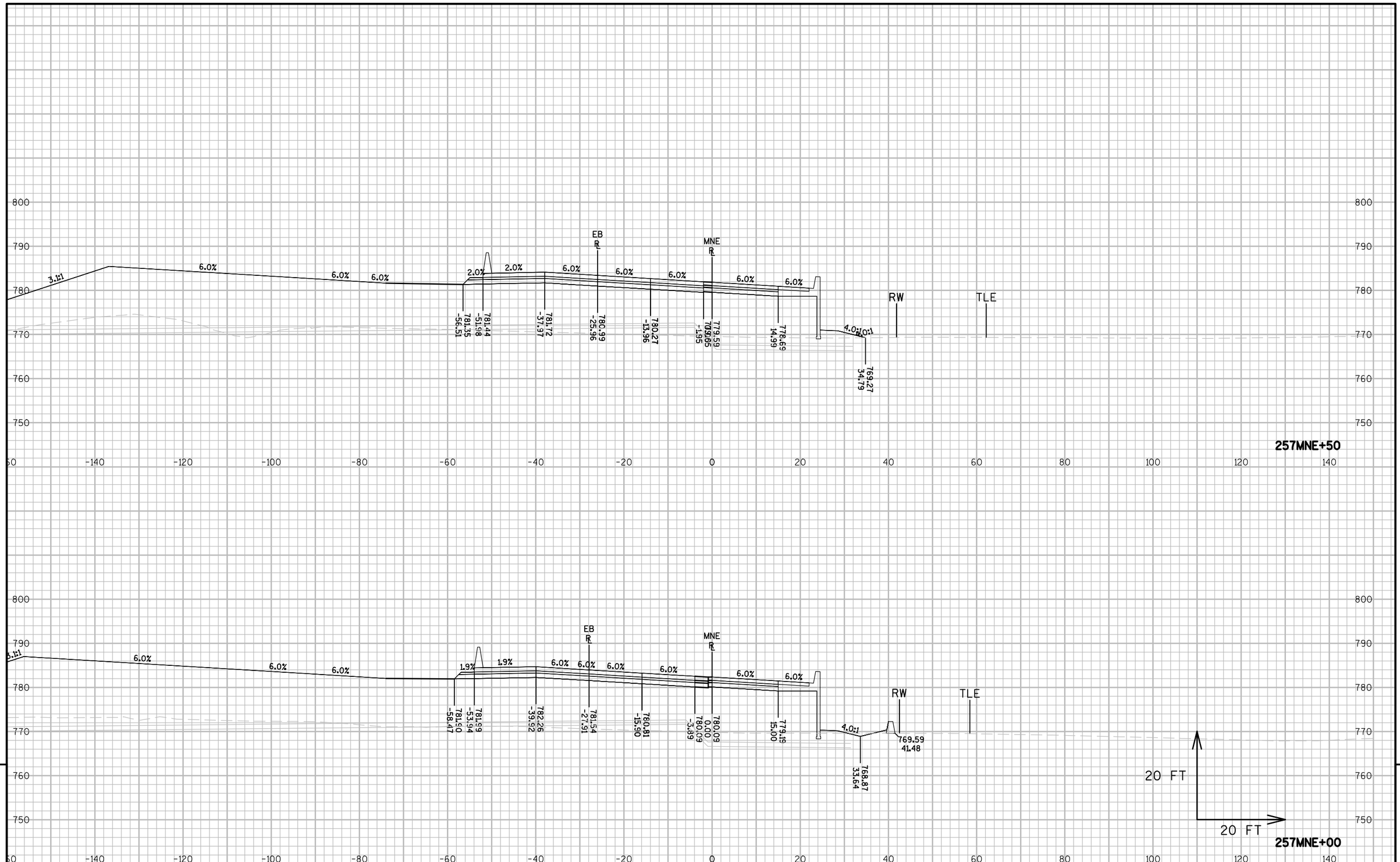
PROJECT NO: 1517-75-72	HWY: STH 441/USH 10	COUNTY: WINNEBAGO	CROSS SECTIONS: MIDWAY ROAD NE RAMP (MNE)-STAGE 1A	SHEET 649	E

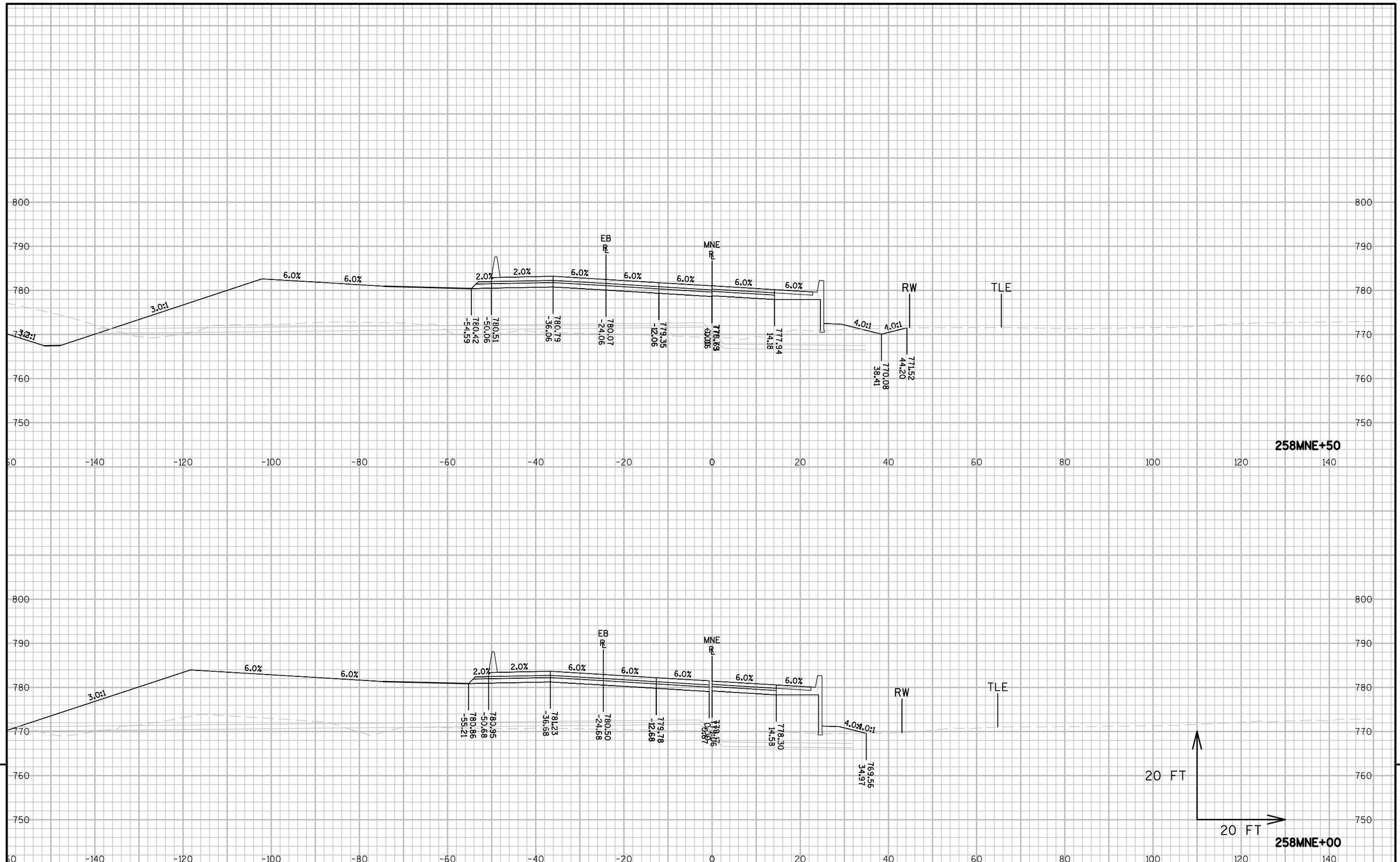
FILE NAME : S:\PDS\C3D\WIS441\15177570_72_77_85\SHEETSPLAN\1517-75-72\090200-XS\NE-15177572-090401-XS-MNE.DWG
LAYOUT NAME - 090415-XS-MNE
PLOT DATE : 2/9/2017 3:37 PM
PLOT BY : VICKMAN, GARRETT T PLOT NAME :
PLOT SCALE : 1 IN:20 FT
WISDOT/CADDS SHEET 49



PROJECT NO: 1517-75-72	HWY: STH 441/USH 10	COUNTY: WINNEBAGO	CROSS SECTIONS: MIDWAY ROAD NE RAMP (MNE)-STAGE 1A	SHEET 650	E

FILE NAME : S:\PDS\C3D\WIS441\15177570_72_77_85\SHEETSPLAN\1517-75-72\090200-XS\NE-15177572-090401-XS-MNE.DWG
LAYOUT NAME - 090416-XS-MNE

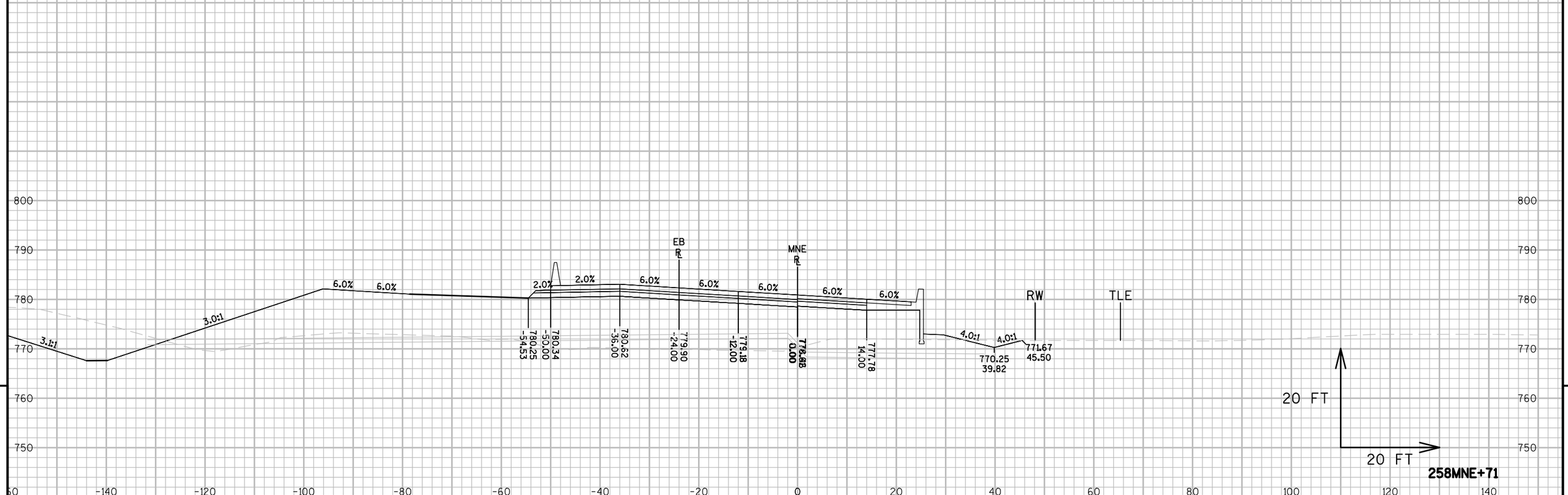
PLOT DATE : 2/9/2017 3:37 PM PLOT BY : VICKMAN, GARRETT T PLOT NAME : PLOT SCALE : 1 IN:20 FT



PROJECT NO: 1517-75-72	HWY: STH 441/USH 10	COUNTY: WINNEBAGO	CROSS SECTIONS: MIDWAY ROAD NE RAMP (MNE)-STAGE 1A	SHEET 651	E

FILE NAME : S:\PDS\C3D\WIS441\15177570_72_77_85\SHEETSPLAN\1517-75-72\090200-XS\NE-15177572-090401-XS-MNE.DWG
LAYOUT NAME - 090417-XS-MNE

PLOT DATE : 2/9/2017 3:37 PM PLOT BY : VICKMAN, GARRETT T PLOT NAME : PLOT SCALE : 1 IN:20 FT



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PROJECT NO: 1517-75-72	HWY: STH 441/USH 10	COUNTY: WINNEBAGO	CROSS SECTIONS: MIDWAY ROAD NE RAMP (MNE)-STAGE 1A	SHEET 652	E

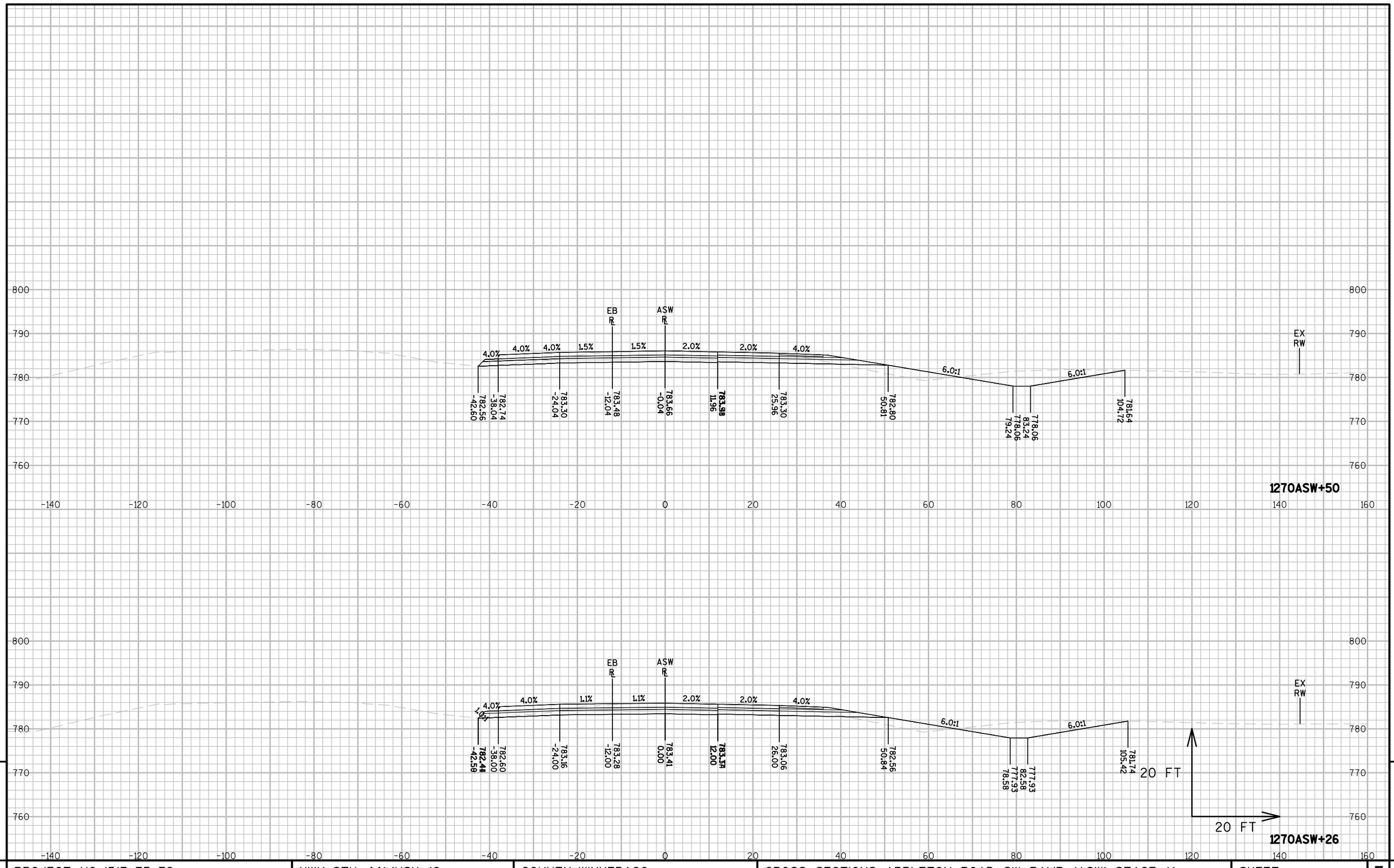
FILE NAME : S:\PDS\C3D\WIS441\15177570_72_77_85\SHEETSPLAN\1517-75-72\090200-XS\NE-15177572-090401-XS-MNE.DWG
LAYOUT NAME - 090418-XS-MNE

PLOT DATE : 2/9/2017 3:38 PM

PLOT BY : VICKMAN, GARRETT T PLOT NAME :

PLOT SCALE : 1 IN:20 FT

WISDOT/CADDS SHEET 49

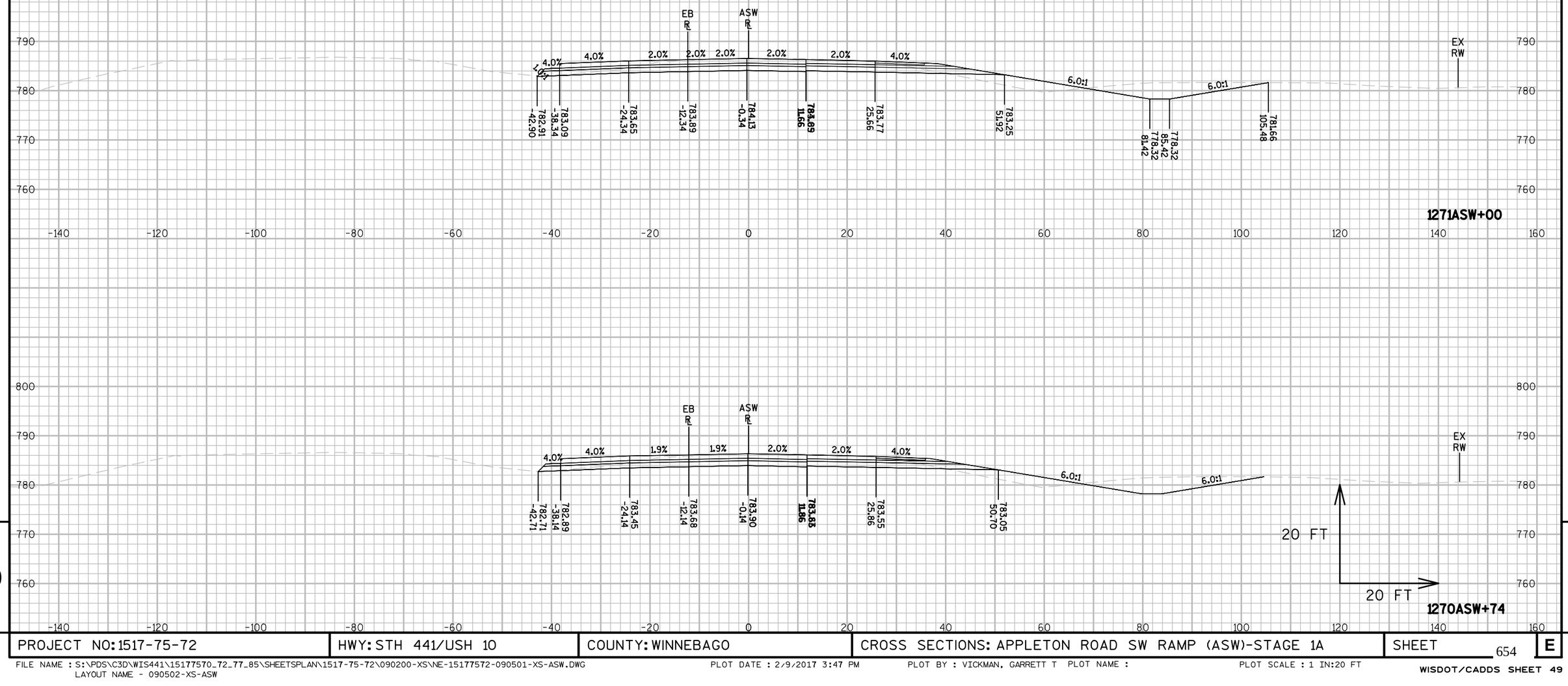


PROJECT NO: 1517-75-72	HWY: STH 441/USH 10	COUNTY: WINNEBAGO	CROSS SECTIONS: APPLETON ROAD SW RAMP (ASW)-STAGE 1A	SHEET 653	E

FILE NAME : S:\PDS\C3D\WIS441\15177570_72_77_85\SHEETSPLAN\1517-75-72\090200-XS\NE-15177572-090501-XS-ASW.DWG
LAYOUT NAME - 090501-XS-ASW

PLOT DATE : 2/9/2017 3:47 PM PLOT BY : VICKMAN, GARRETT T PLOT NAME : PLOT SCALE : 1 IN:20 FT

WISDOT/CADDS SHEET 49



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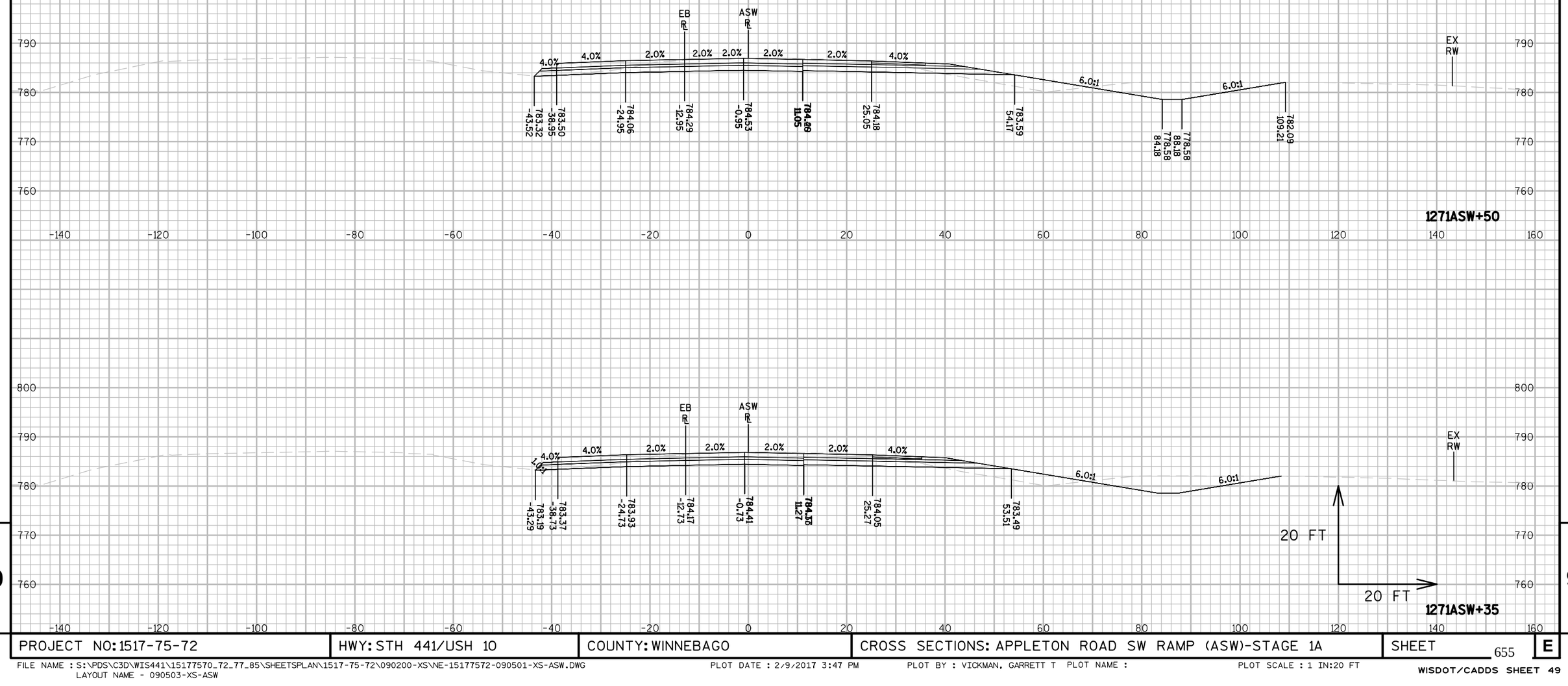
PROJECT NO: 1517-75-72	HWY: STH 441/USH 10	COUNTY: WINNEBAGO	CROSS SECTIONS: APPLETON ROAD SW RAMP (ASW)-STAGE 1A	SHEET 654	E

FILE NAME : S:\PDS\C3D\WIS441\15177570_72_77_85\SHEETSPLAN\1517-75-72\090200-XS\NE-15177572-090501-XS-ASW.DWG
LAYOUT NAME - 090502-XS-ASW
PLOT DATE : 2/9/2017 3:47 PM
PLOT BY : VICKMAN, GARRETT T PLOT NAME :
PLOT SCALE : 1 IN:20 FT
WISDOT/CADDS SHEET 49



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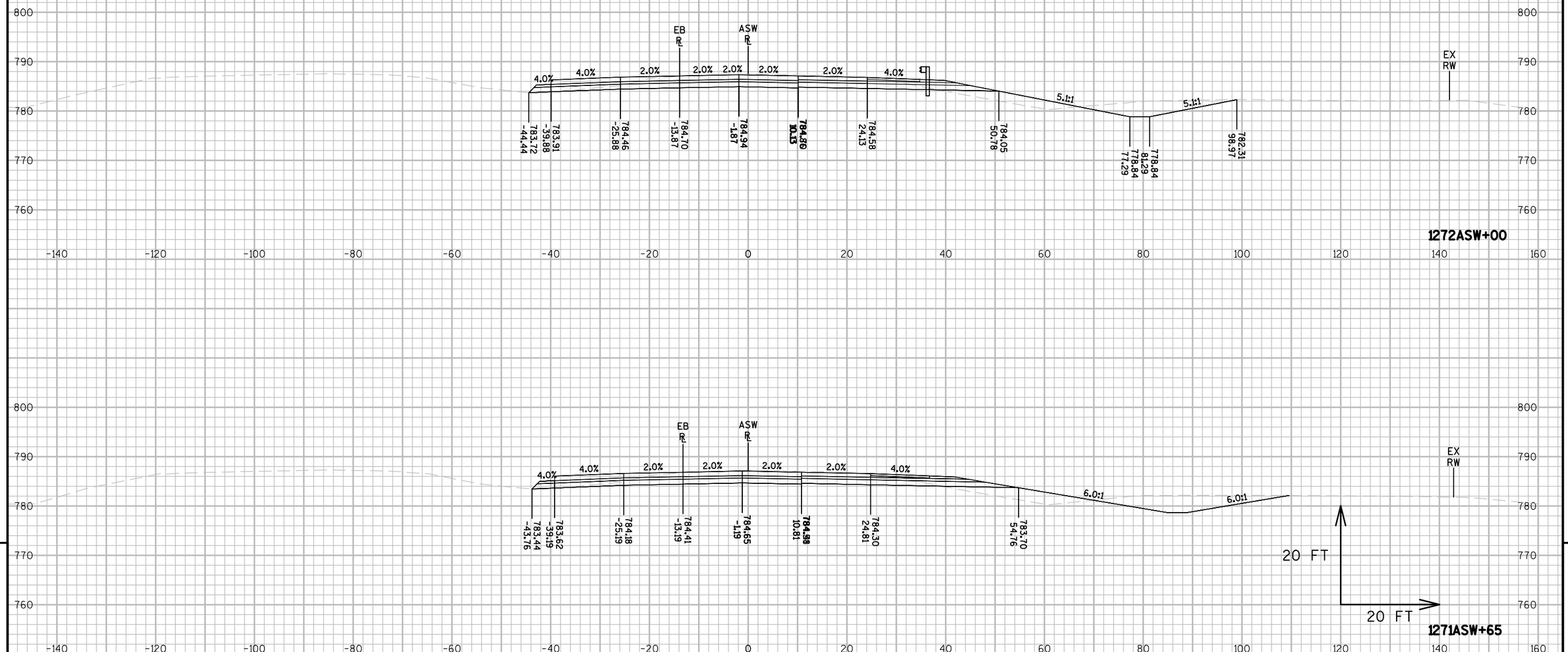
PROJECT NO: 1517-75-72	HWY: STH 441/USH 10	COUNTY: WINNEBAGO	CROSS SECTIONS: APPLETON ROAD SW RAMP (ASW)-STAGE 1A	SHEET 655	E

FILE NAME : S:\PDS\C3D\WIS441\15177570_72_77_85\SHEETSPLAN\1517-75-72\090200-XS\NE-15177572-090501-XS-ASW.DWG
LAYOUT NAME - 090503-XS-ASW

PLOT DATE : 2/9/2017 3:47 PM PLOT BY : VICKMAN, GARRETT T PLOT NAME : PLOT SCALE : 1 IN:20 FT

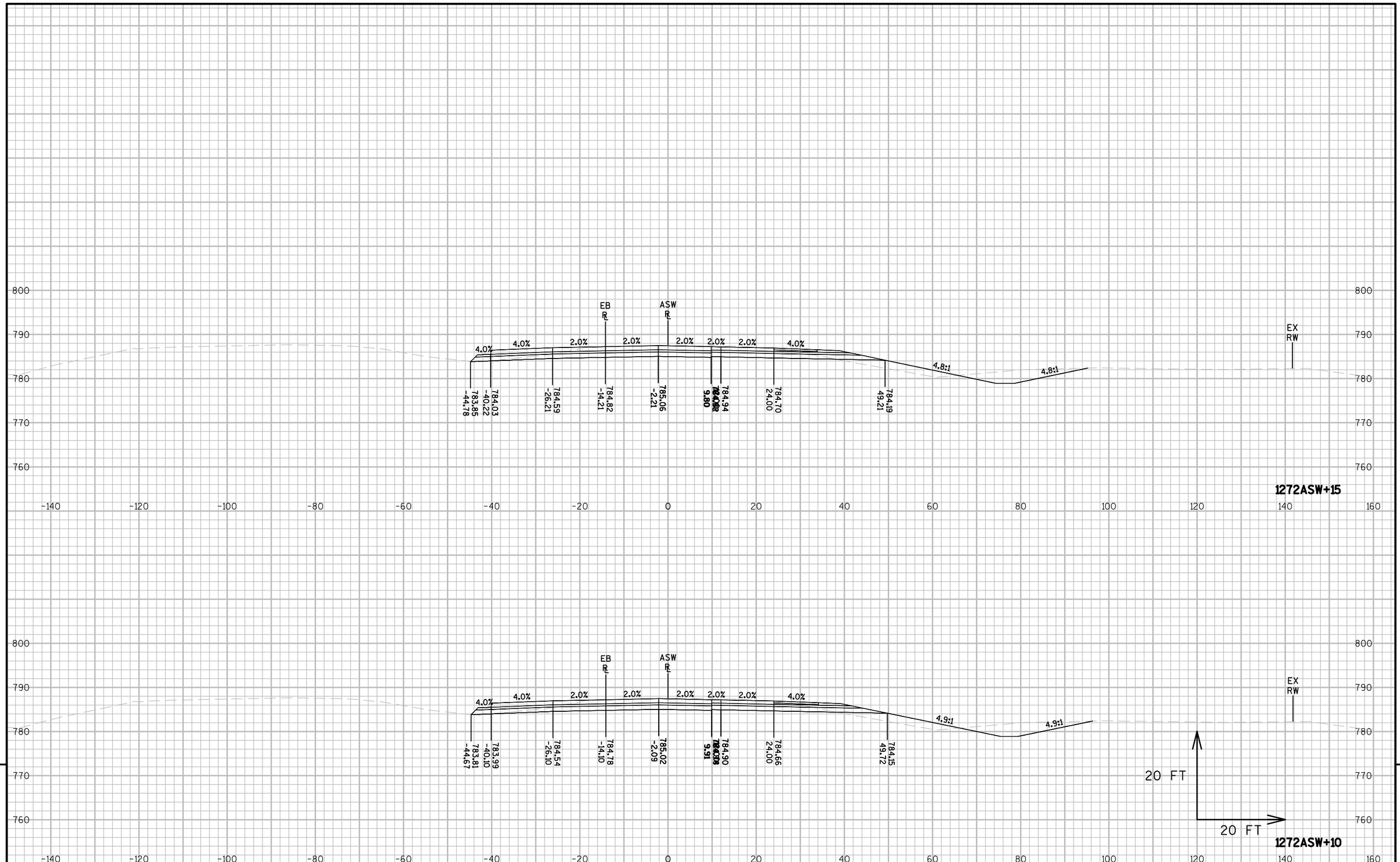


PROJECT NO: 1517-75-72	HWY: STH 441/USH 10	COUNTY: WINNEBAGO	CROSS SECTIONS: APPLETON ROAD SW RAMP (ASW)-STAGE 1A	SHEET 656 E

FILE NAME : S:\PDS\C3D\WIS441\15177570_72_77_85\SHEETSPLAN\1517-75-72\090200-XS\NE-15177572-090501-XS-ASW.DWG
LAYOUT NAME - 090504-XS-ASW

PLOT DATE : 2/9/2017 3:47 PM PLOT BY : VICKMAN, GARRETT T PLOT NAME : PLOT SCALE : 1 IN:20 FT

WISDOT/CADDS SHEET 49



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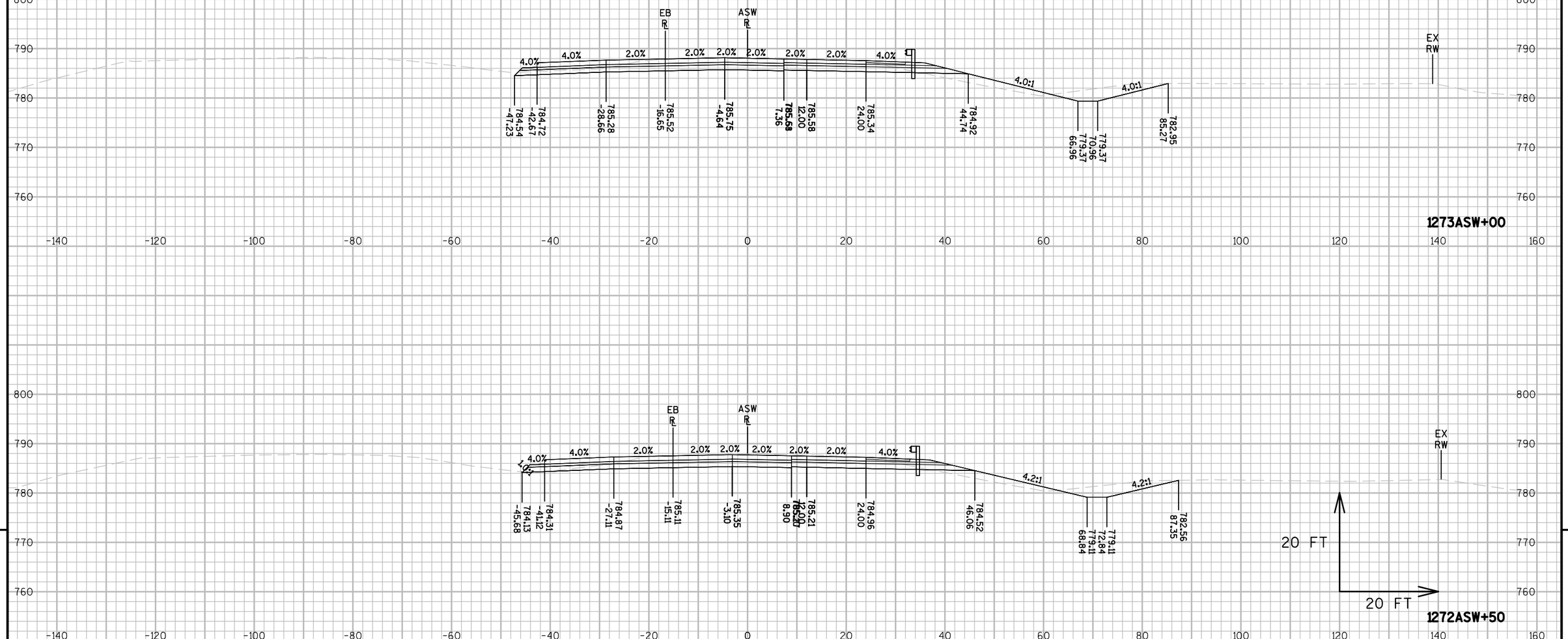
PROJECT NO: 1517-75-72	HWY: STH 441/USH 10	COUNTY: WINNEBAGO	CROSS SECTIONS: APPLETON ROAD SW RAMP (ASW)-STAGE 1A	SHEET 657	E

FILE NAME : S:\PDS\C3D\WIS441\15177570_72_77_85\SHEETSPLAN\1517-75-72\090200-XS\NE-15177572-090501-XS-ASW.DWG
LAYOUT NAME - 090505-XS-ASW

PLOT DATE : 2/9/2017 3:48 PM PLOT BY : VICKMAN, GARRETT T PLOT NAME : PLOT SCALE : 1 IN:20 FT

WISDOT/CADDS SHEET 49



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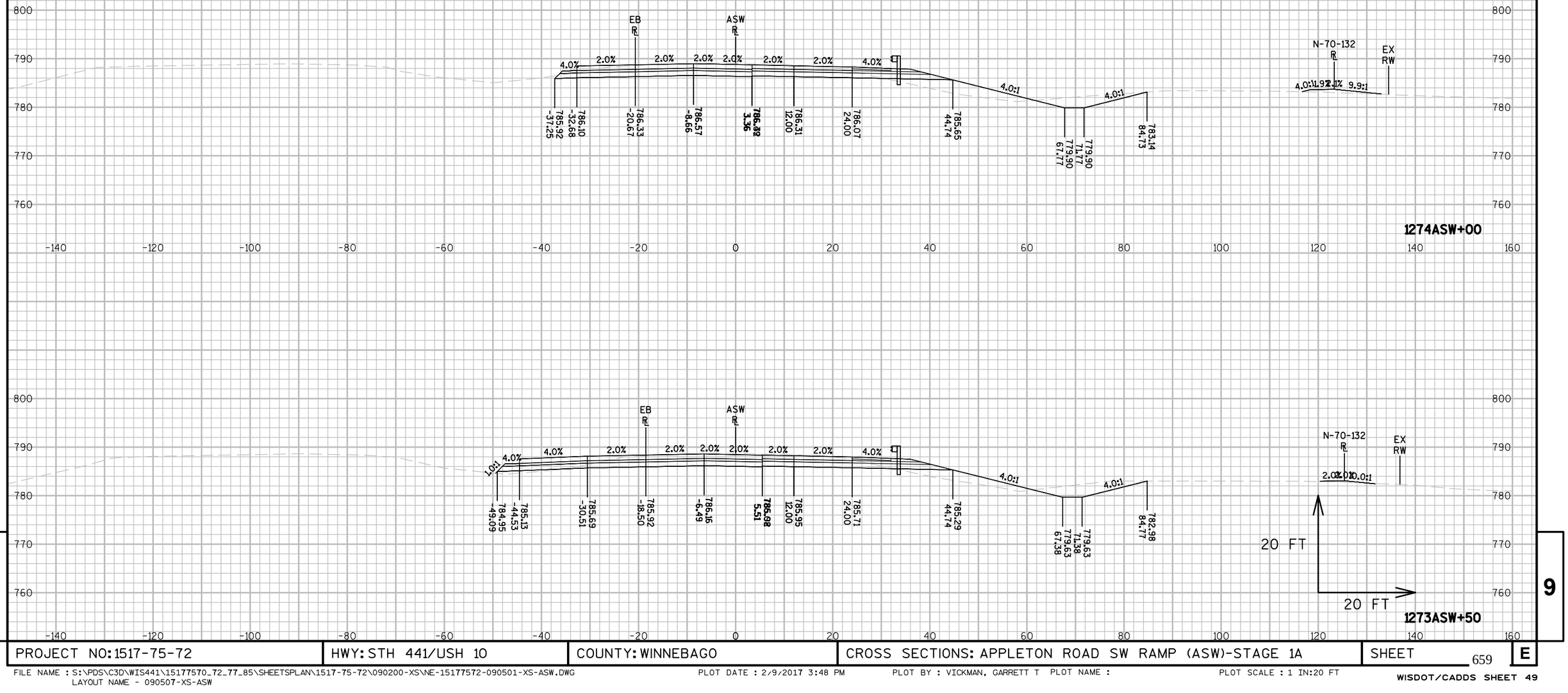
PROJECT NO: 1517-75-72	HWY: STH 441/USH 10	COUNTY: WINNEBAGO	CROSS SECTIONS: APPLETON ROAD SW RAMP (ASW)-STAGE 1A	SHEET 658	E

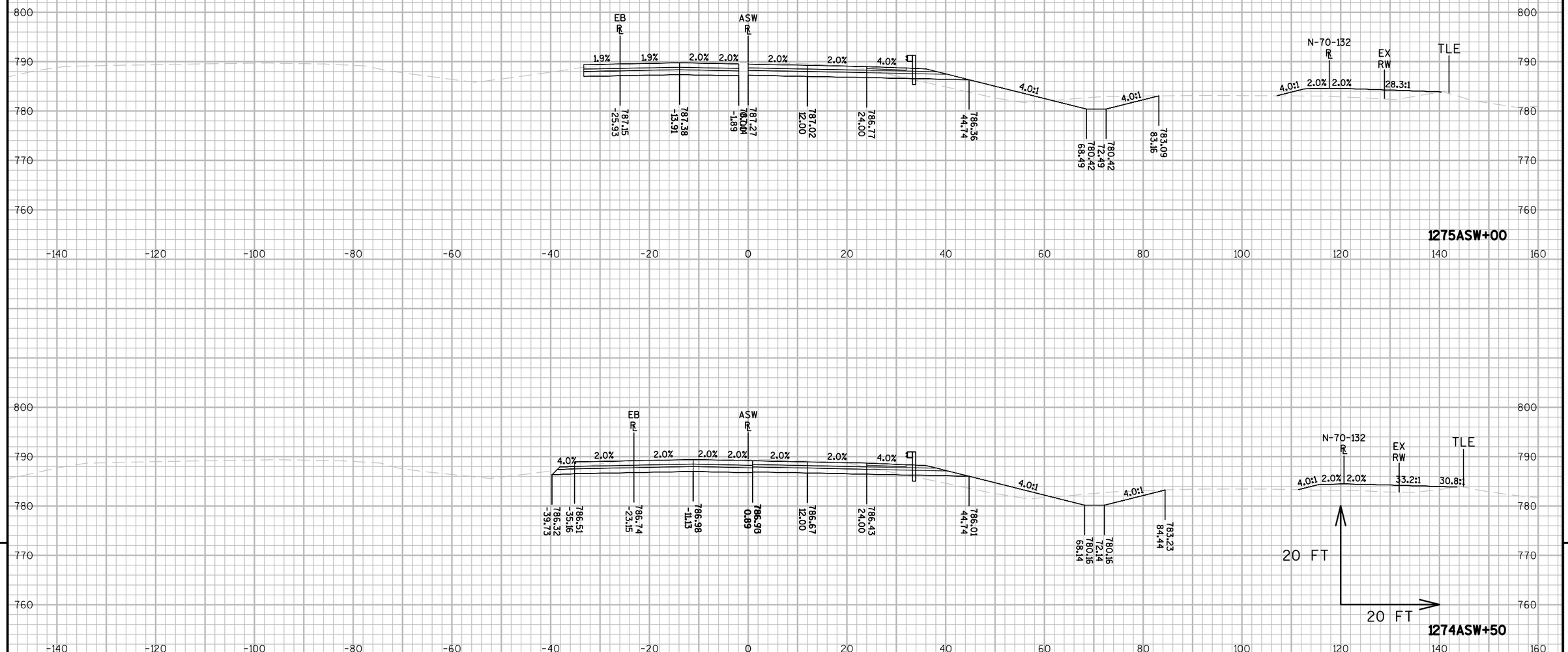
FILE NAME : S:\PDS\C3D\WIS441\15177570_72_77_85\SHEETSPLAN\1517-75-72\090200-XS\NE-15177572-090501-XS-ASW.DWG
LAYOUT NAME - 090506-XS-ASW

PLOT DATE : 2/9/2017 3:48 PM PLOT BY : VICKMAN, GARRETT T PLOT NAME : PLOT SCALE : 1 IN:20 FT



PROJECT NO: 1517-75-72	HWY: STH 441/USH 10	COUNTY: WINNEBAGO	CROSS SECTIONS: APPLETON ROAD SW RAMP (ASW)-STAGE 1A	SHEET 659	E

FILE NAME : S:\PDS\C3D\WIS441\15177570_72_77_85\SHEETSPLAN\1517-75-72\090200-XS\NE-15177572-090501-XS-ASW.DWG
LAYOUT NAME - 090507-XS-ASW
PLOT DATE : 2/9/2017 3:48 PM
PLOT BY : VICKMAN, GARRETT T PLOT NAME :
PLOT SCALE : 1 IN:20 FT
WISDOT/CADDS SHEET 49



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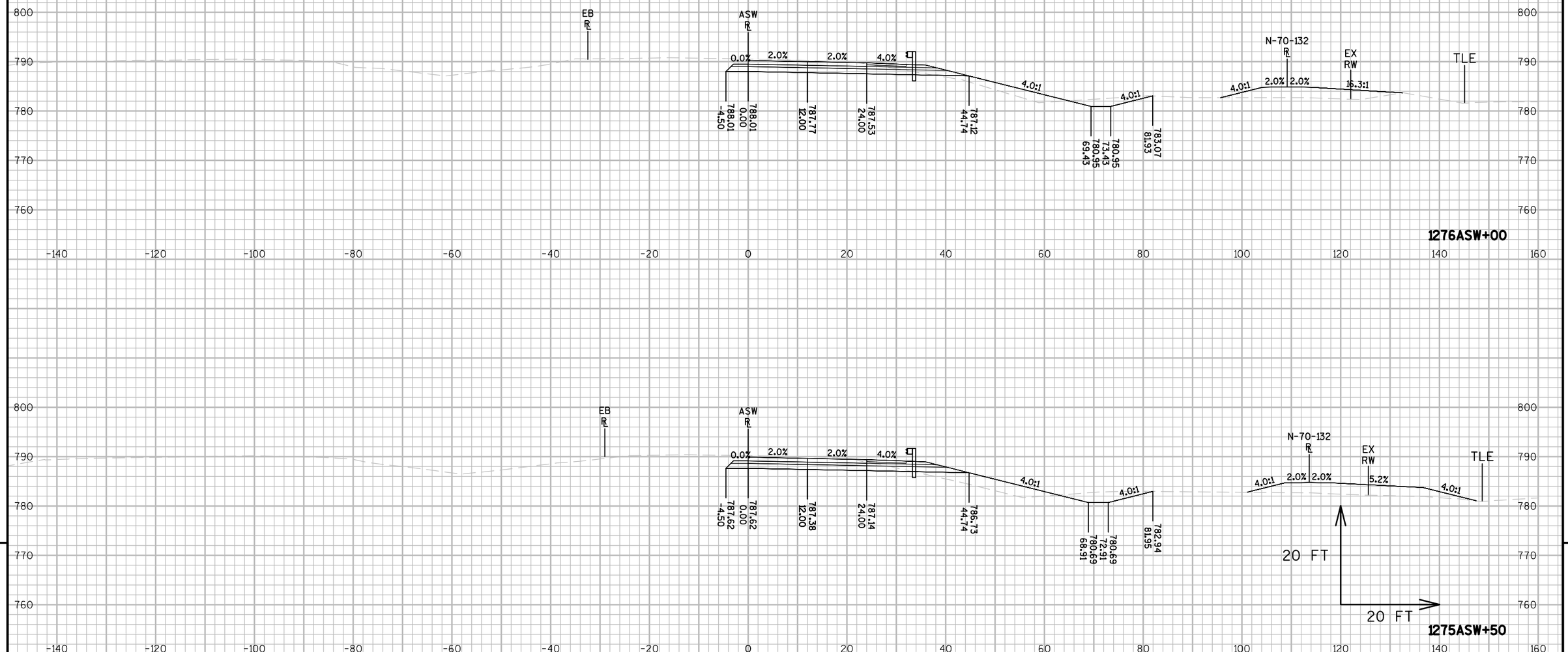
PROJECT NO: 1517-75-72	HWY: STH 441/USH 10	COUNTY: WINNEBAGO	CROSS SECTIONS: APPLETON ROAD SW RAMP (ASW)-STAGE 1A	SHEET 660	E

FILE NAME : S:\PDS\C3D\WIS441\15177570_72_77_85\SHEETSPLAN\1517-75-72\090200-XS\NE-15177572-090501-XS-ASW.DWG
LAYOUT NAME - 090508-XS-ASW

PLOT DATE : 2/9/2017 3:48 PM PLOT BY : VICKMAN, GARRETT T PLOT NAME : PLOT SCALE : 1 IN:20 FT



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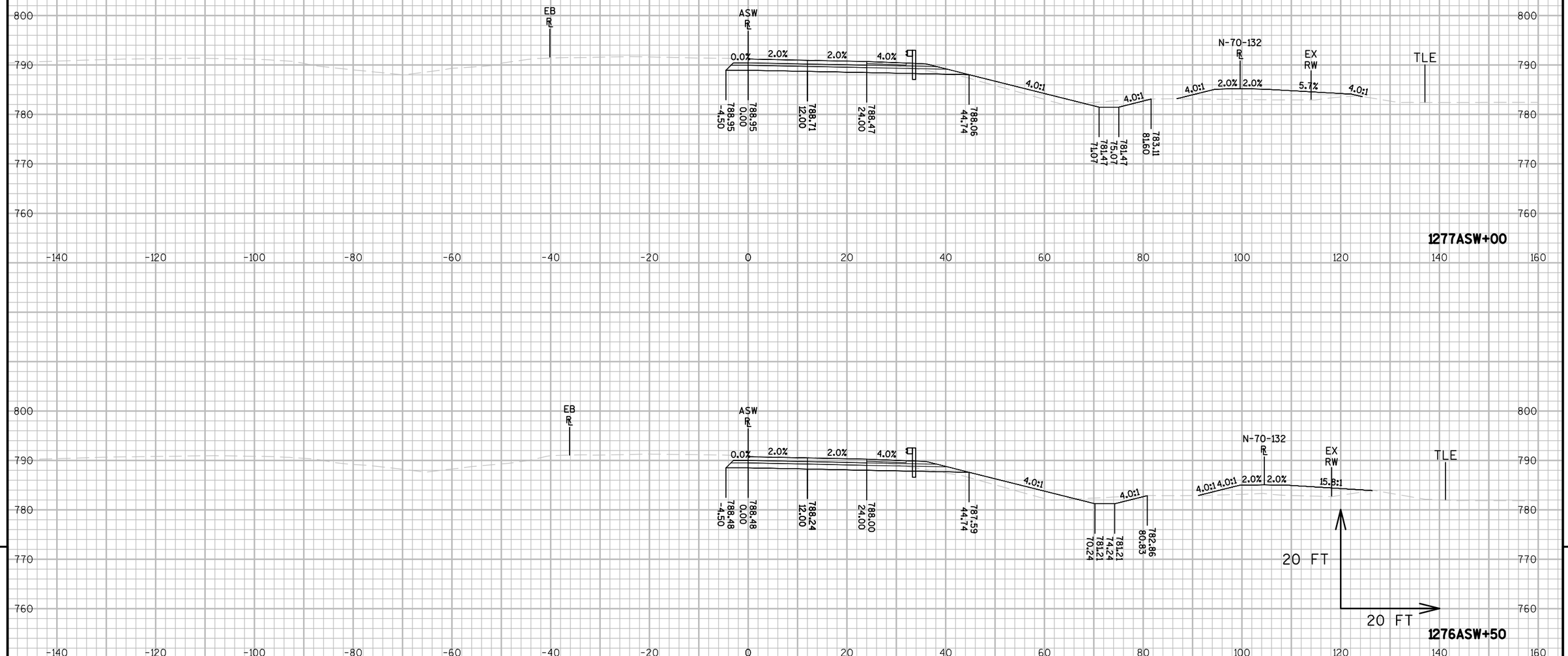
PROJECT NO: 1517-75-72	HWY: STH 441/USH 10	COUNTY: WINNEBAGO	CROSS SECTIONS: APPLETON ROAD SW RAMP (ASW)-STAGE 1A	SHEET 661	E

FILE NAME : S:\PDS\C3D\WIS441\15177570_72_77_85\SHEETSPLAN\1517-75-72\090200-XS\NE-15177572-090501-XS-ASW.DWG
LAYOUT NAME - 090509-XS-ASW

PLOT DATE : 2/9/2017 3:48 PM PLOT BY : VICKMAN, GARRETT T PLOT NAME : PLOT SCALE : 1 IN:20 FT

WISDOT/CADDS SHEET 49



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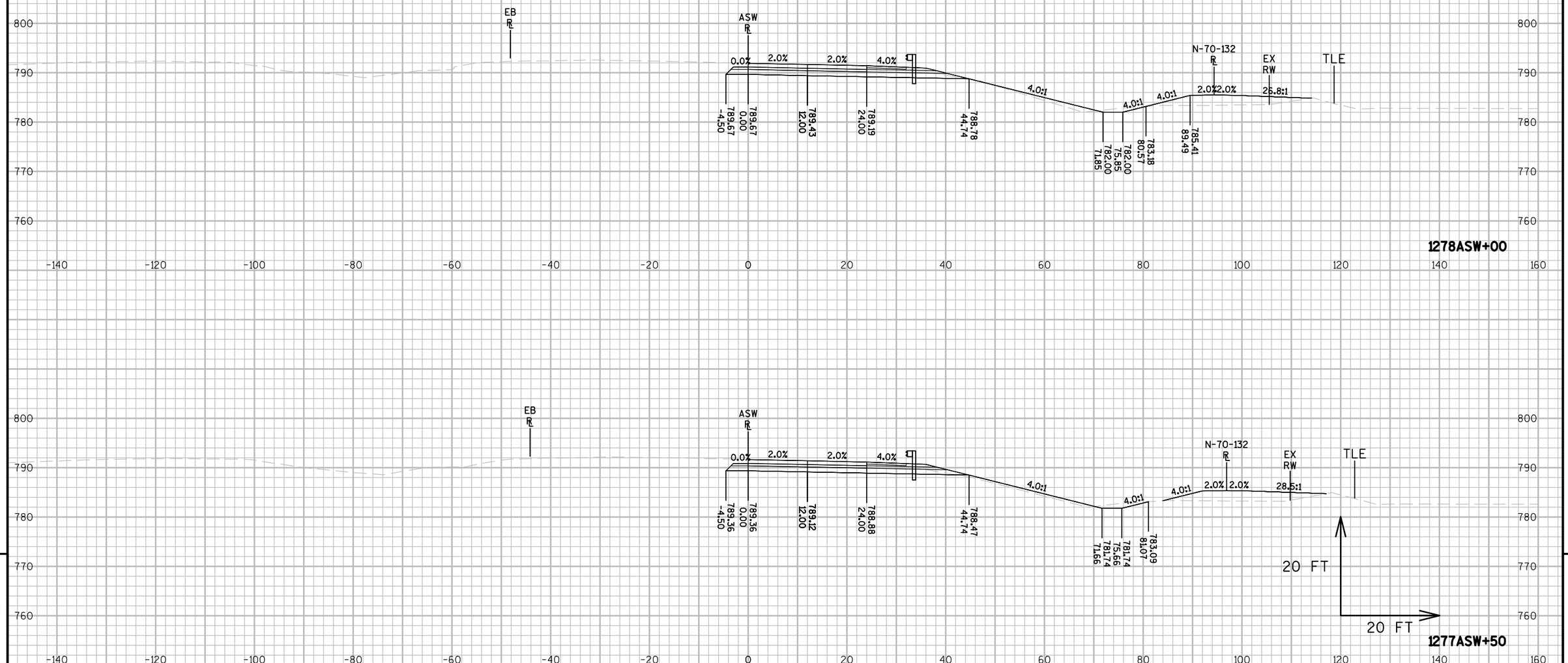
PROJECT NO: 1517-75-72	HWY: STH 441/USH 10	COUNTY: WINNEBAGO	CROSS SECTIONS: APPLETON ROAD SW RAMP (ASW)-STAGE 1A	SHEET 662	E



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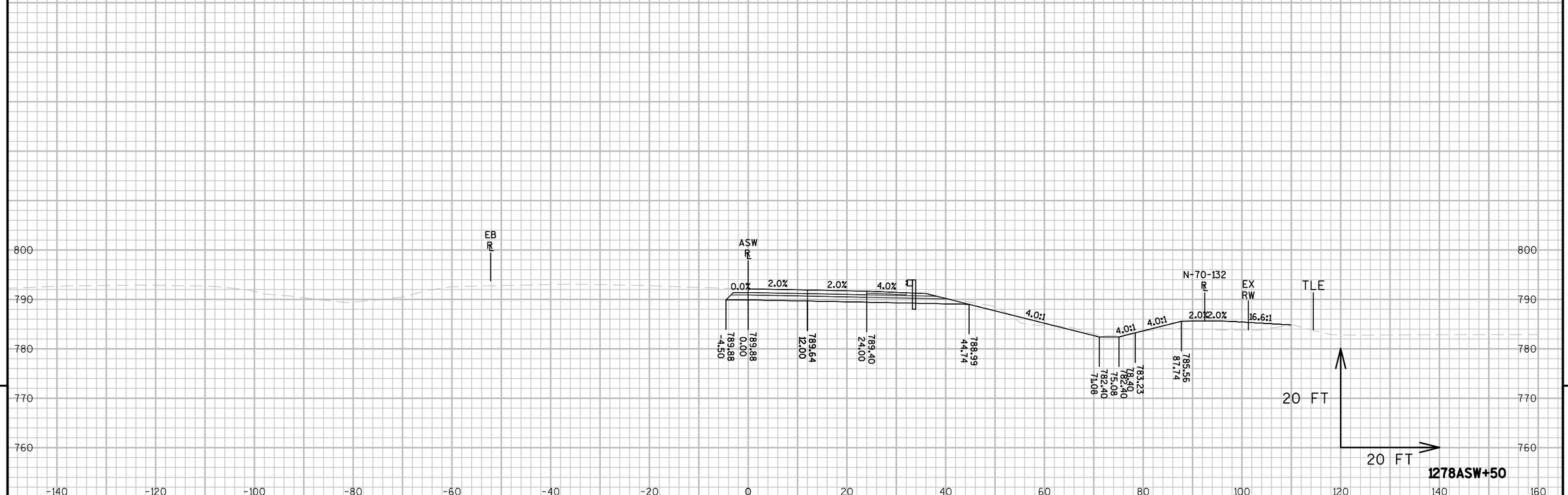
PROJECT NO: 1517-75-72	HWY: STH 441/USH 10	COUNTY: WINNEBAGO	CROSS SECTIONS: APPLETON ROAD SW RAMP (ASW)-STAGE 1A	SHEET 663	E

FILE NAME : S:\PDS\C3D\WIS441\15177570_72_77_85\SHEETSPLAN\1517-75-72\090200-XS\NE-15177572-090501-XS-ASW.DWG
LAYOUT NAME - 090511-XS-ASW

PLOT DATE : 2/9/2017 3:48 PM PLOT BY : VICKMAN, GARRETT T PLOT NAME : PLOT SCALE : 1 IN:20 FT

WISDOT/CADDS SHEET 49



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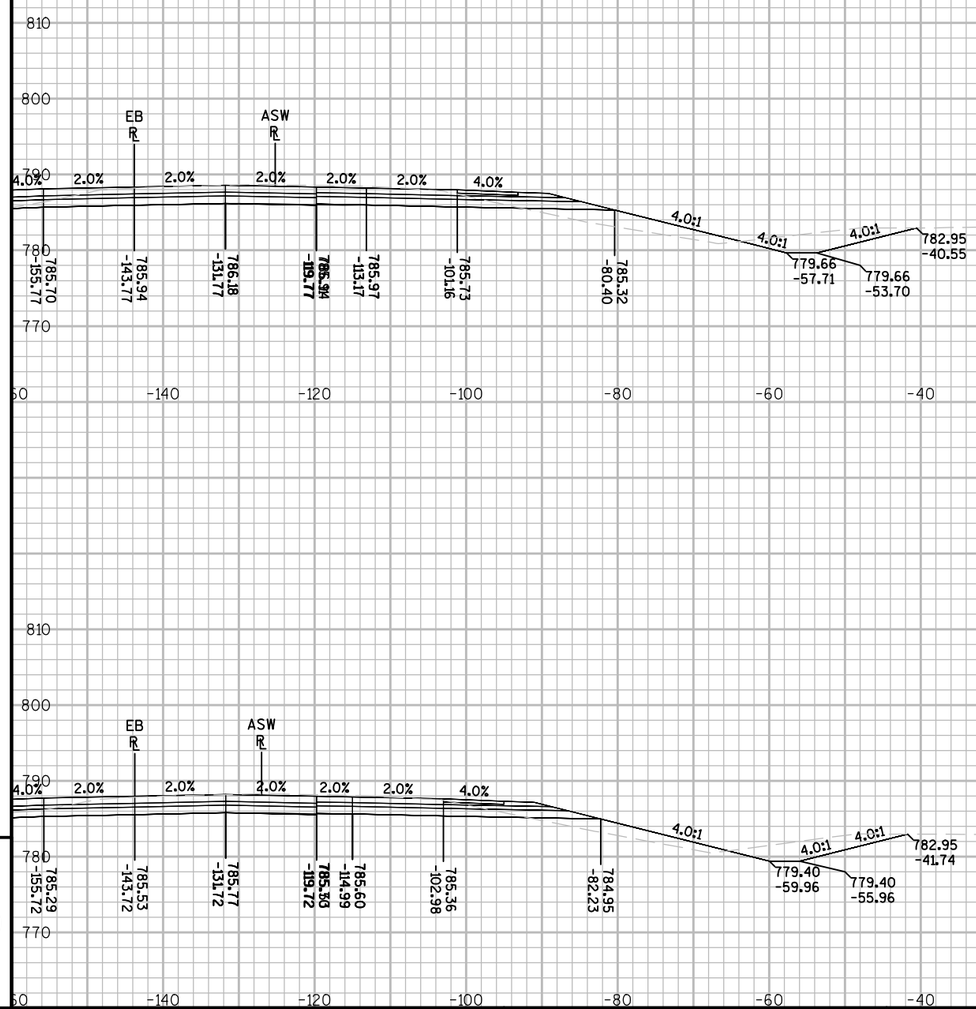
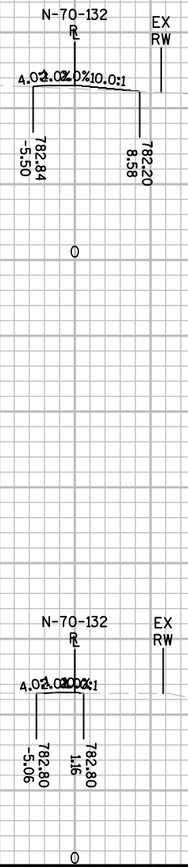
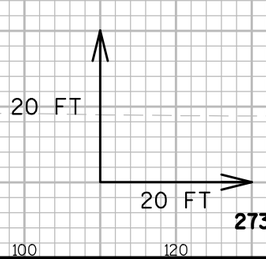
PROJECT NO: 1517-75-72	HWY: STH 441/USH 10	COUNTY: WINNEBAGO	CROSS SECTIONS: APPLETON ROAD SW RAMP (ASW)-STAGE 1A	SHEET 664	E







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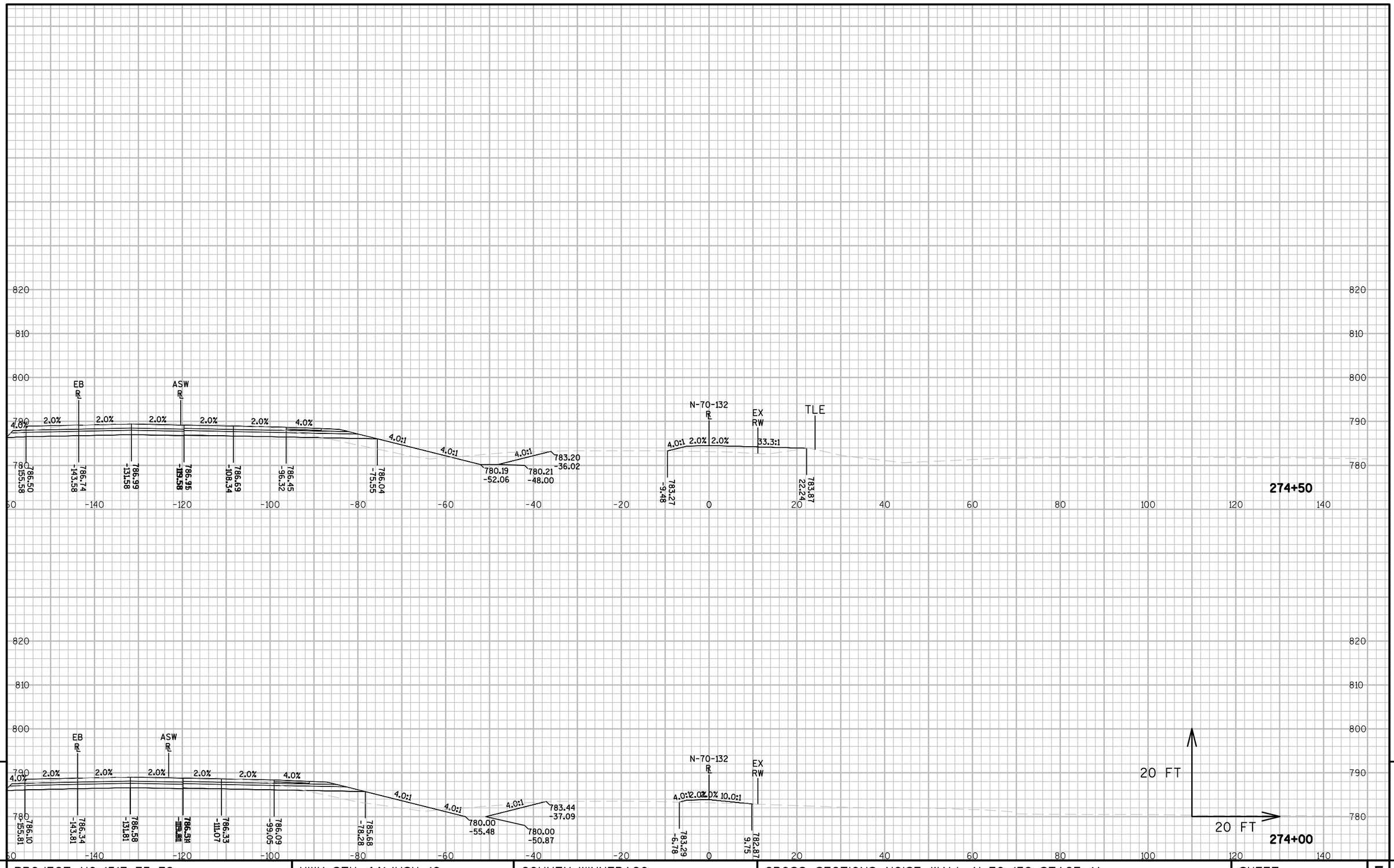
PROJECT NO: 1517-75-72	HWY: STH 441/USH 10	COUNTY: WINNEBAGO	CROSS SECTIONS: NOISE WALL N-70-132-STAGE 1A	SHEET 665	E

FILE NAME : S:\PDS\C3D\WIS441\15177570_72_77_85\SHEETSPLAN\1517-75-72\090200-XS\NE-15177572-090701-XS-N-70-132-1A.DWG
LAYOUT NAME - 090701-XS-N-70-132-1A

PLOT DATE : 2/10/2017 7:53 AM PLOT BY : VICKMAN, GARRETT T PLOT NAME : PLOT SCALE : 1 IN:20 FT

WISDOT/CADDS SHEET 49



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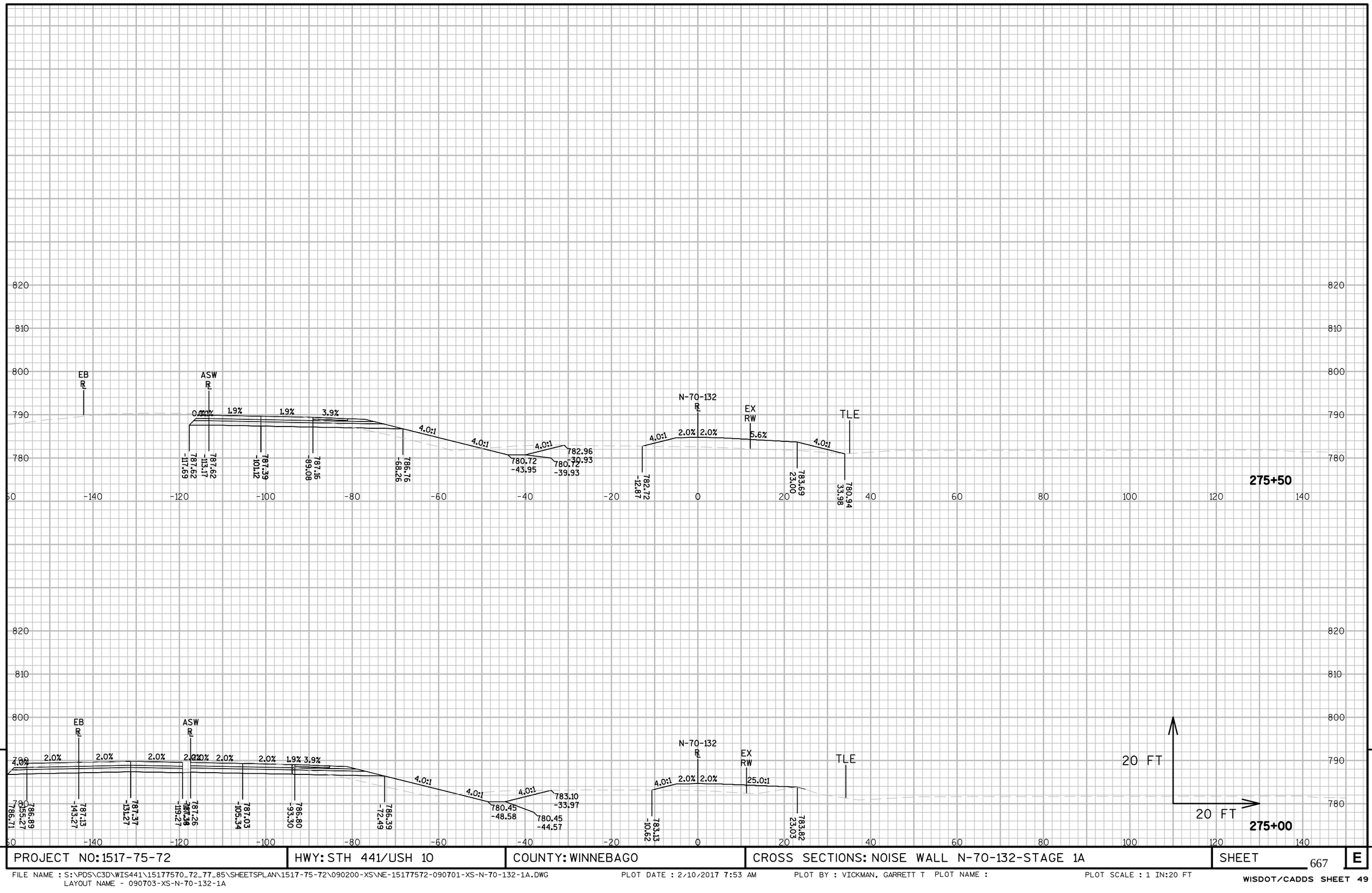
PROJECT NO: 1517-75-72	HWY: STH 441/USH 10	COUNTY: WINNEBAGO	CROSS SECTIONS: NOISE WALL N-70-132-STAGE 1A	SHEET 666	E



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LAYOUT NAME - 090703-XS-N-70-132-1A
PLOT DATE : 2/10/2017 7:53 AM PLOT BY : VICKMAN, GARRETT T PLOT NAME : PLOT SCALE : 1 IN:20 FT
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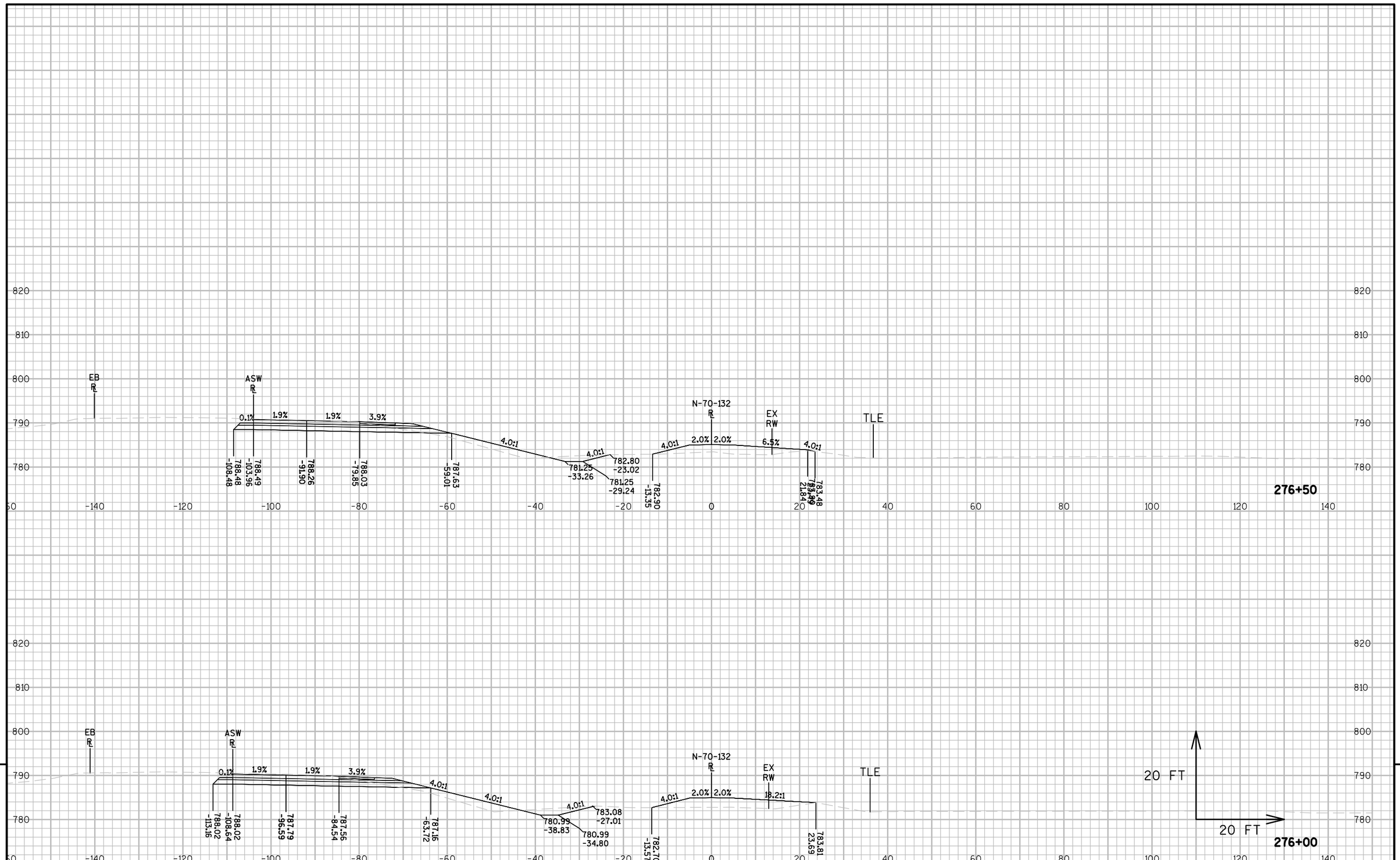

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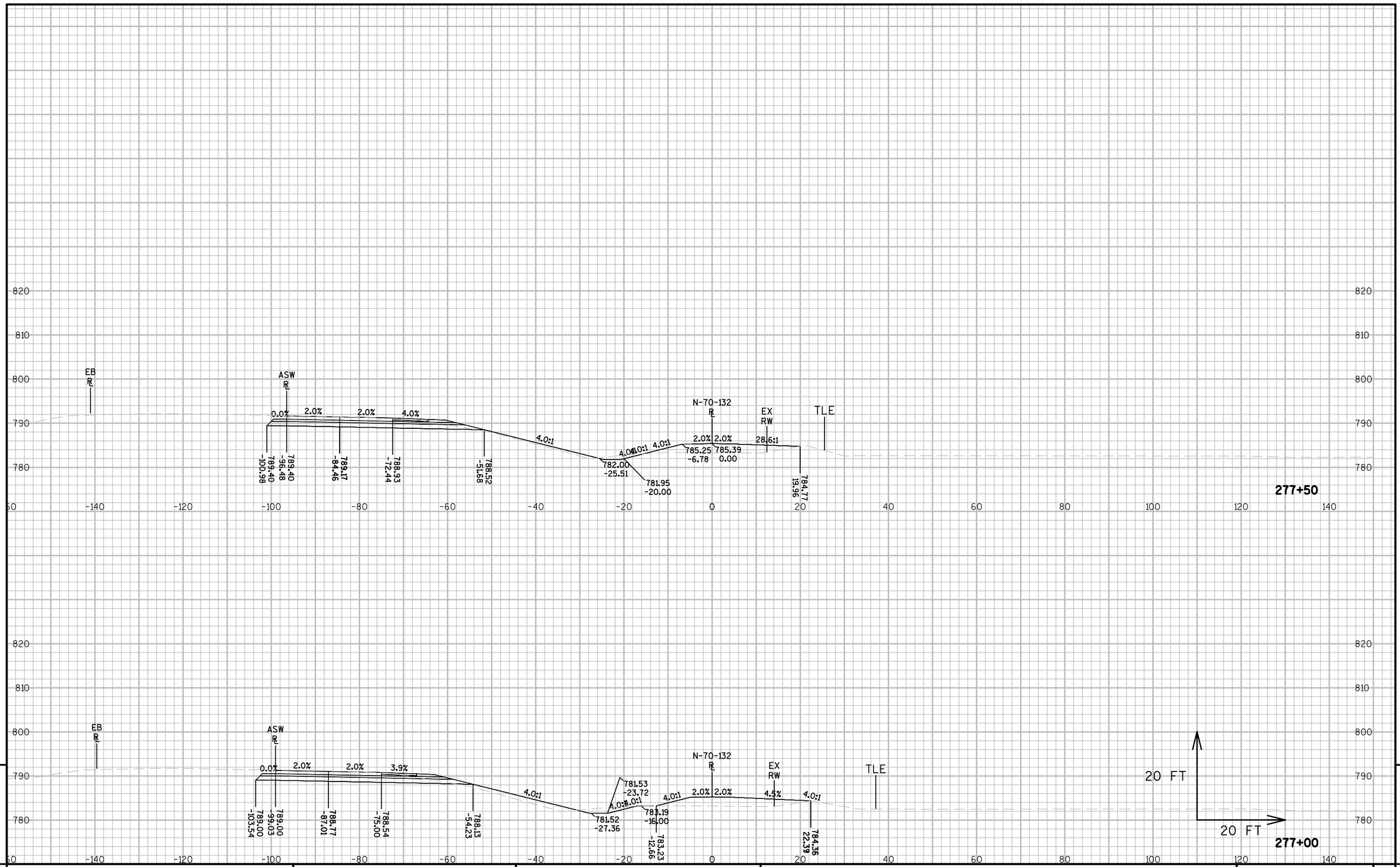
PROJECT NO: 1517-75-72	HWY: STH 441/USH 10	COUNTY: WINNEBAGO	CROSS SECTIONS: NOISE WALL N-70-132-STAGE 1A	SHEET 668	E

FILE NAME : S:\PDS\C3D\WIS441\15177570_72_77_85\SHEETSPLAN\1517-75-72\090200-XS\NE-15177572-090701-XS-N-70-132-1A.DWG
LAYOUT NAME - 090704-XS-N-70-132-1A

PLOT DATE : 2/10/2017 7:53 AM PLOT BY : VICKMAN, GARRETT T PLOT NAME : PLOT SCALE : 1 IN:20 FT

WISDOT/CADDS SHEET 49



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PROJECT NO: 1517-75-72	HWY: STH 441/USH 10	COUNTY: WINNEBAGO	CROSS SECTIONS: NOISE WALL N-70-132-STAGE 1A	SHEET 669	E

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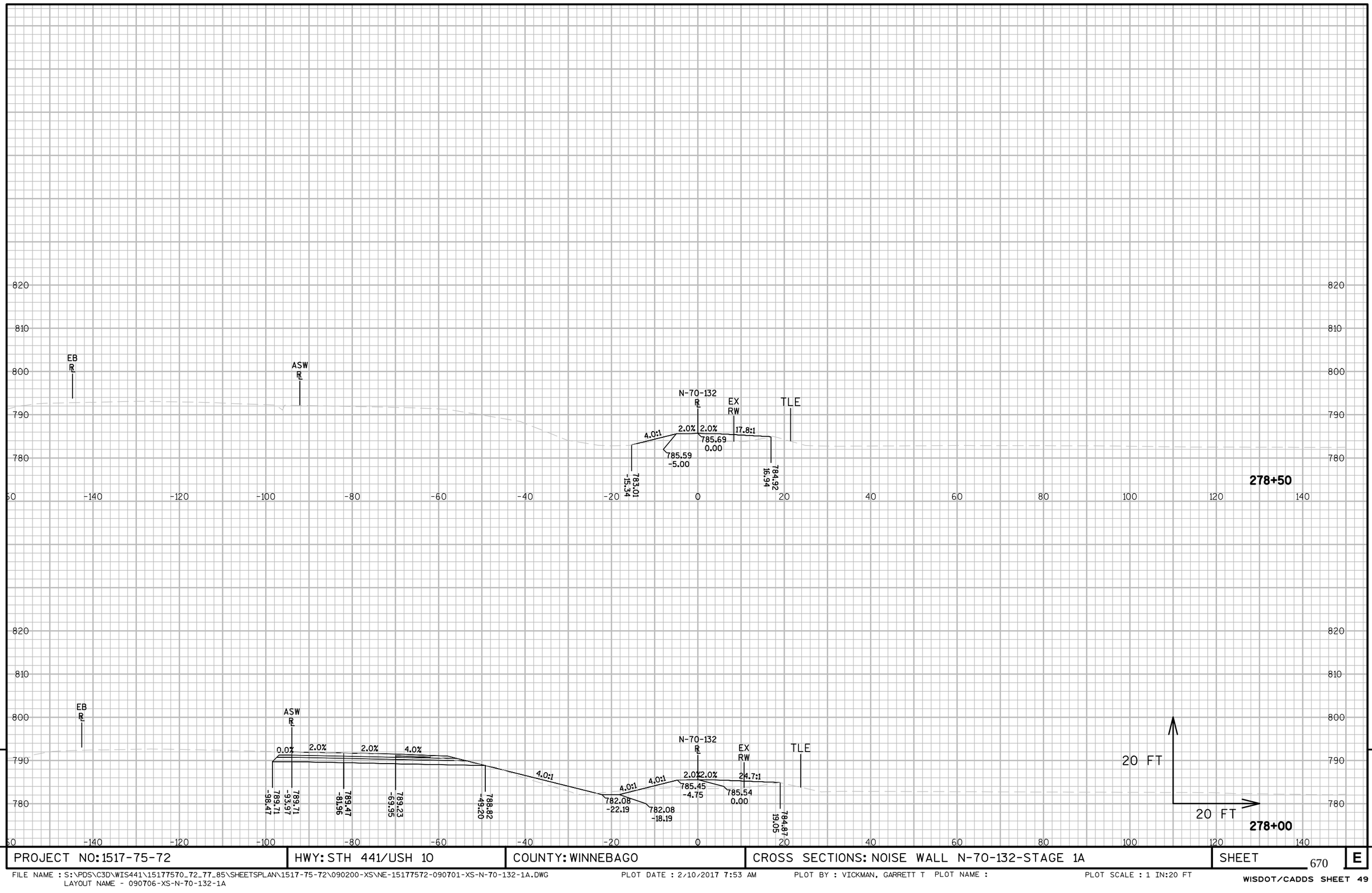
LAYOUT NAME - 090705-XS-N-70-132-1A

PLOT DATE : 2/10/2017 7:53 AM PLOT BY : VICKMAN, GARRETT T PLOT NAME : PLOT SCALE : 1 IN:20 FT



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PROJECT NO: 1517-75-72	HWY: STH 441/USH 10	COUNTY: WINNEBAGO	CROSS SECTIONS: NOISE WALL N-70-132-STAGE 1A	SHEET 670	E

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LAYOUT NAME - 090706-XS-N-70-132-1A

PLOT DATE : 2/10/2017 7:53 AM PLOT BY : VICKMAN, GARRETT T PLOT NAME : PLOT SCALE : 1 IN:20 FT

820
810
800
790
780

EB
ASW
N-70-132
EX RW
TLE

4.0:1 2.0% 2.0% 10.0:1
785.12
0.00
785.02
-5.00
782.98
-13.18
784.02
15.00

-60 -40 -20 0 20 40 60 80 100 120 140

279+50

820
810
800
790
780

EB
ASW
N-70-132
EX RW
TLE

4.0:1 2.0% 2.0% 22.2:1
785.46
0.00
785.36
-5.00
782.83
-15.11
784.76
18.22

20 FT
20 FT

-60 -40 -20 0 20 40 60 80 100 120 140

279+00

9

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PROJECT NO: 1517-75-72	HWY: STH 441/USH 10	COUNTY: WINNEBAGO	CROSS SECTIONS: NOISE WALL N-70-132-STAGE 1A	SHEET 671	E

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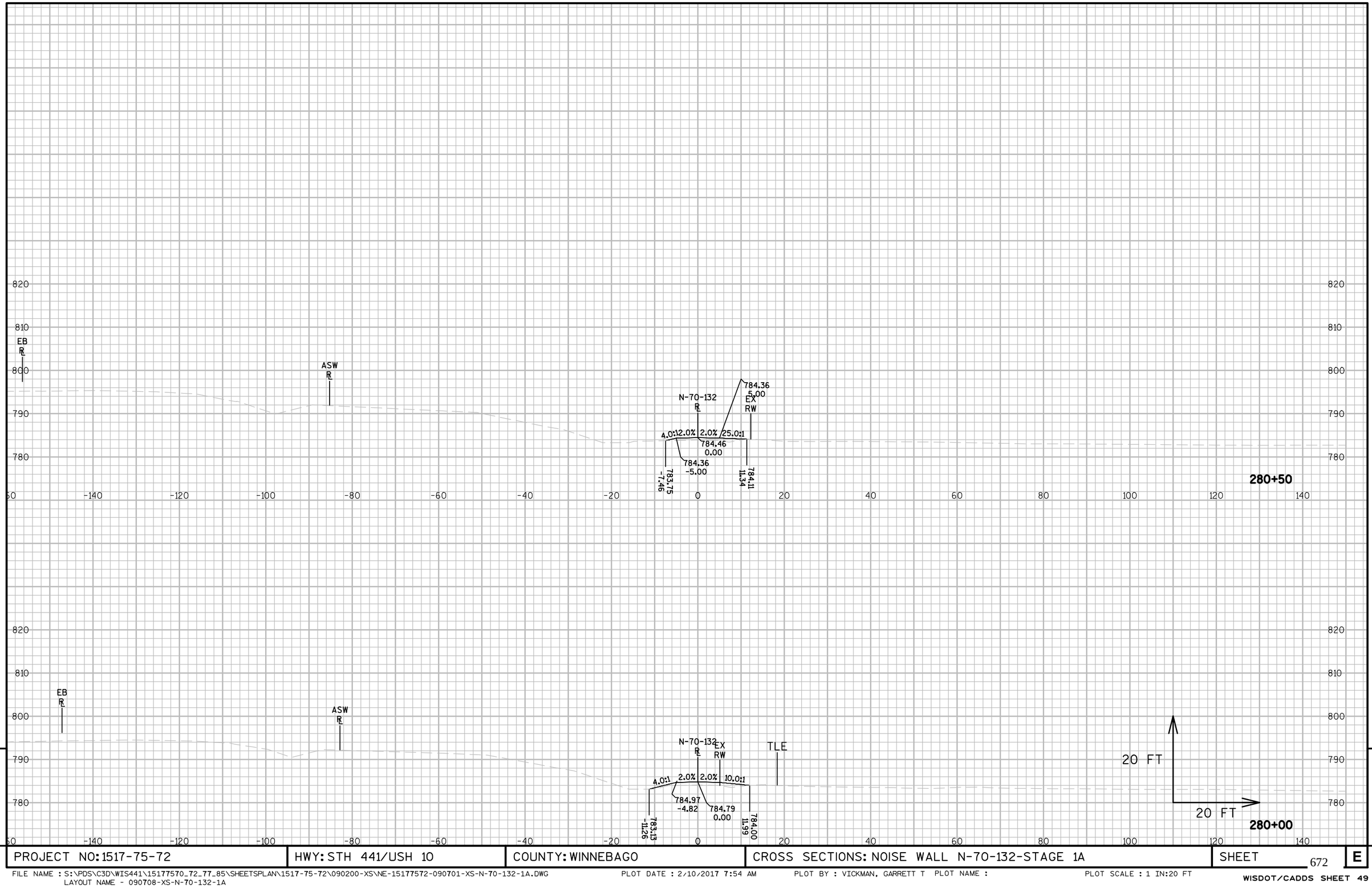
LAYOUT NAME - 090707-XS-N-70-132-1A

PLOT DATE : 2/10/2017 7:54 AM PLOT BY : VICKMAN, GARRETT T PLOT NAME : PLOT SCALE : 1 IN:20 FT



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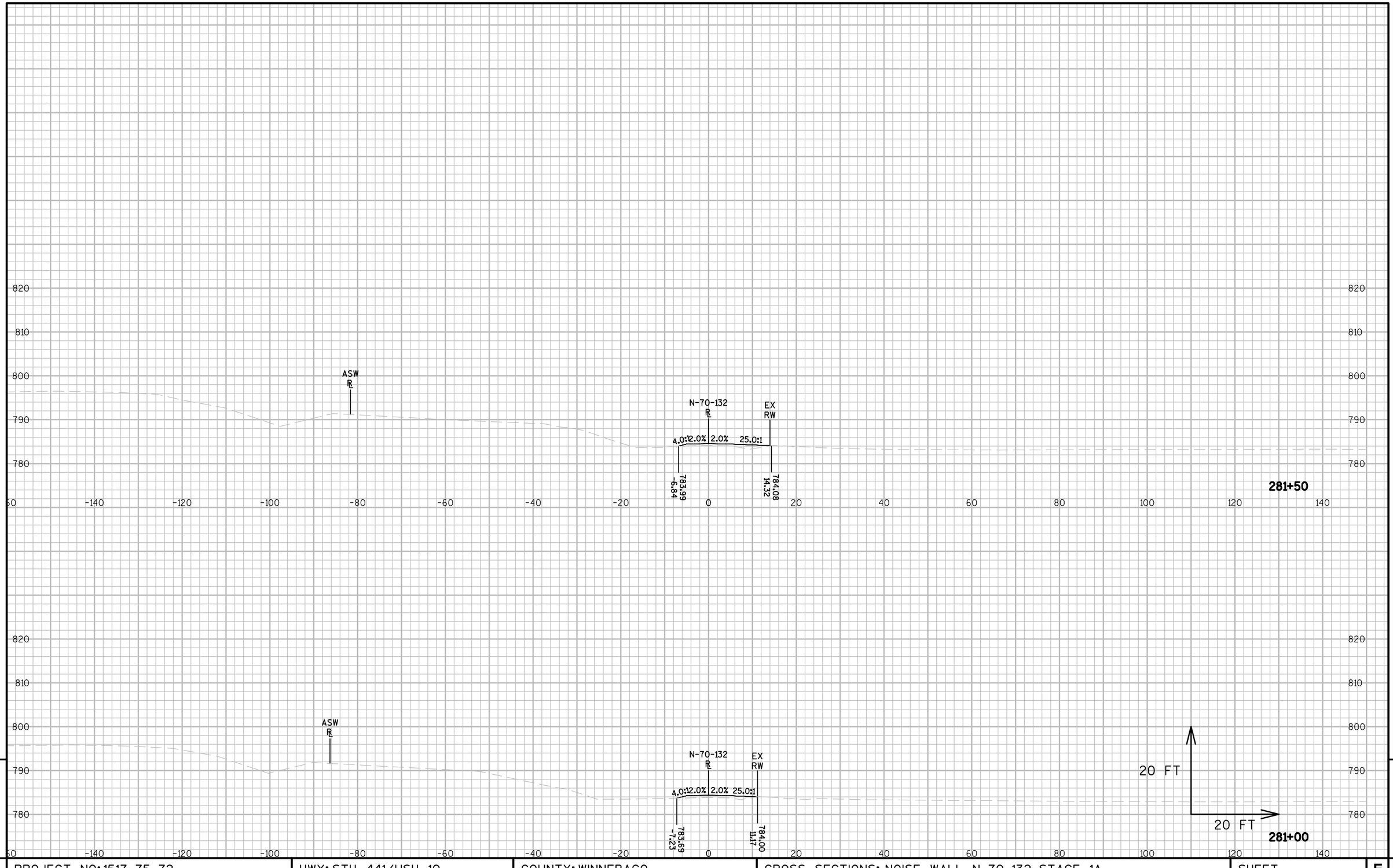
LAYOUT NAME - 090708-XS-N-70-132-1A

PLOT DATE : 2/10/2017 7:54 AM PLOT BY : VICKMAN, GARRETT T PLOT NAME : PLOT SCALE : 1 IN:20 FT

WISDOT/CADDS SHEET 49



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PROJECT NO: 1517-75-72	HWY: STH 441/USH 10	COUNTY: WINNEBAGO	CROSS SECTIONS: NOISE WALL N-70-132-STAGE 1A	SHEET 673	E

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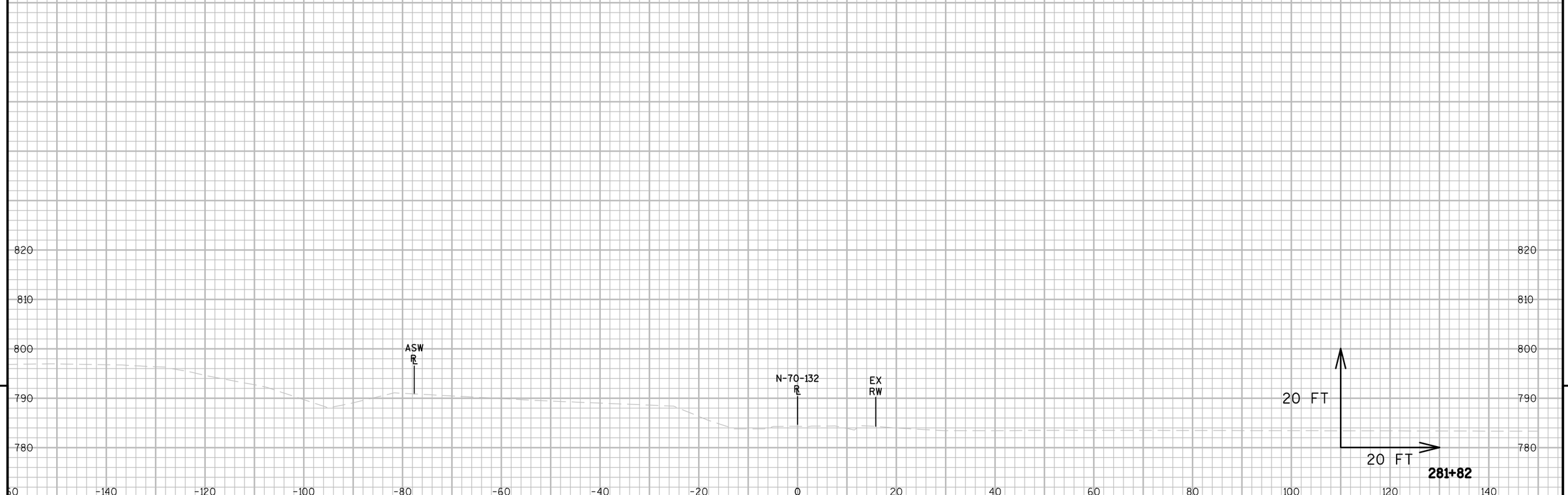
LAYOUT NAME - 090709-XS-N-70-132-1A

PLOT DATE : 2/10/2017 7:54 AM PLOT BY : VICKMAN, GARRETT T PLOT NAME : PLOT SCALE : 1 IN:20 FT



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PROJECT NO: 1517-75-72	HWY: STH 441/USH 10	COUNTY: WINNEBAGO	CROSS SECTIONS: NOISE WALL N-70-132-STAGE 1A	SHEET 674	E

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LAYOUT NAME - 090710-XS-N-70-132-1A

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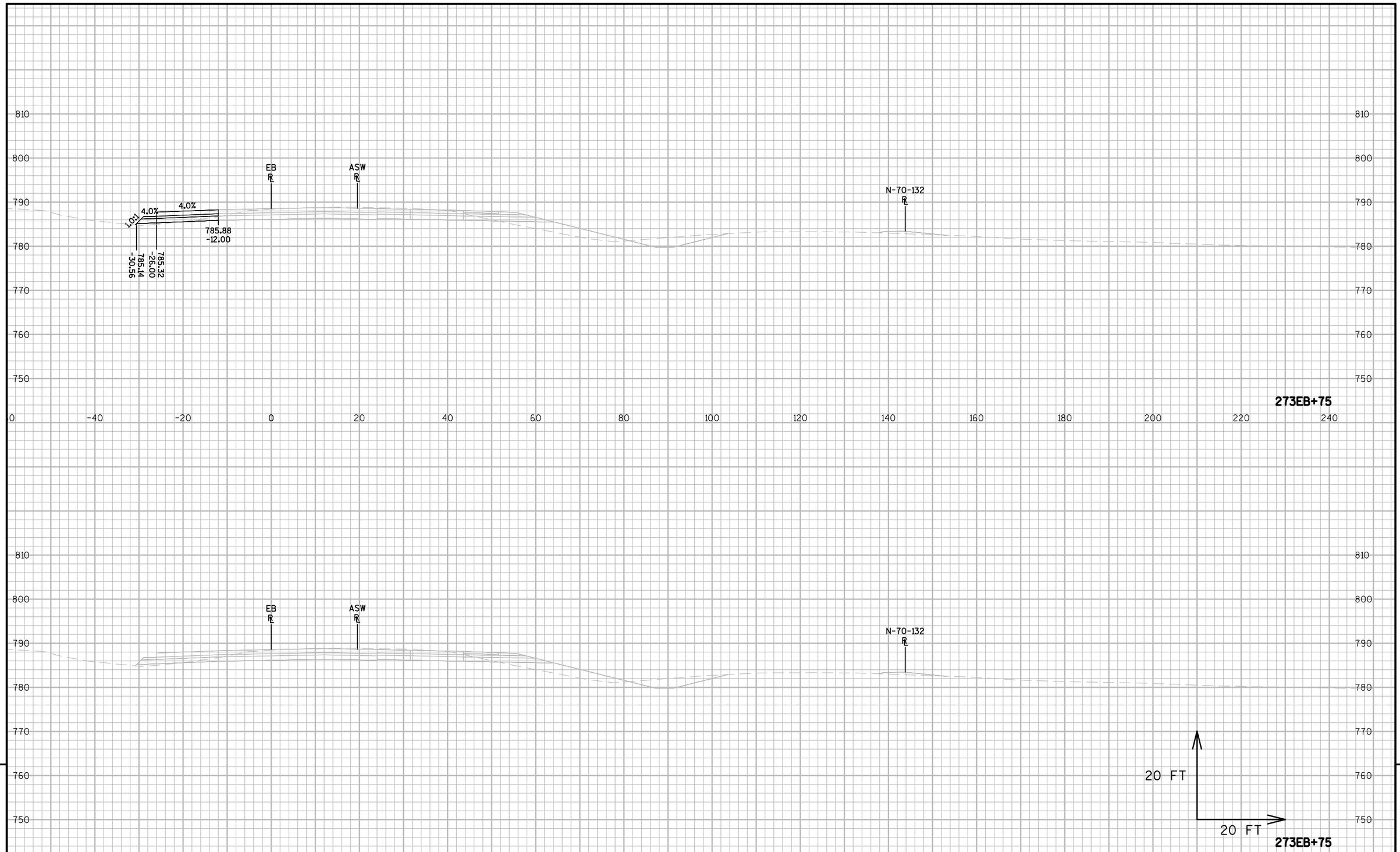

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PROJECT NO: 1517-75-72	HWY: STH 441/USH 10	COUNTY: WINNEBAGO	CROSS SECTIONS: USH 10 EASTBOUND (EB)-STAGE 1B	SHEET 675	E

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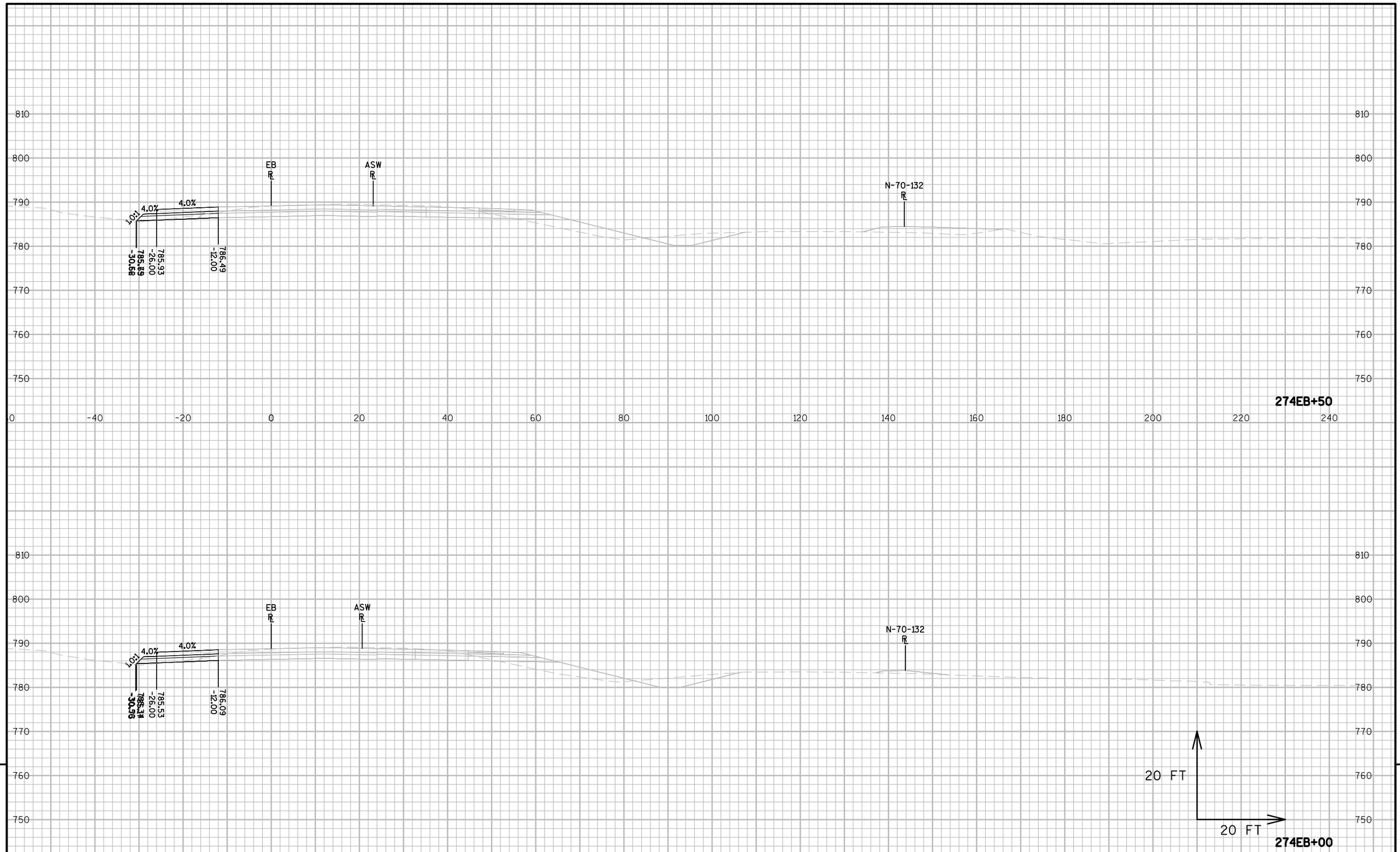
LAYOUT NAME - 090201-XS-EB1B

PLOT DATE : 2/9/2017 2:13 PM

PLOT BY : VICKMAN, GARRETT T PLOT NAME :

PLOT SCALE : 1 IN:20 FT

WISDOT/CADDS SHEET 49



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LAYOUT NAME - 090202-XS-EB1B

PLOT DATE : 2/9/2017 2:13 PM PLOT BY : VICKMAN, GARRETT T PLOT NAME : PLOT SCALE : 1 IN:20 FT

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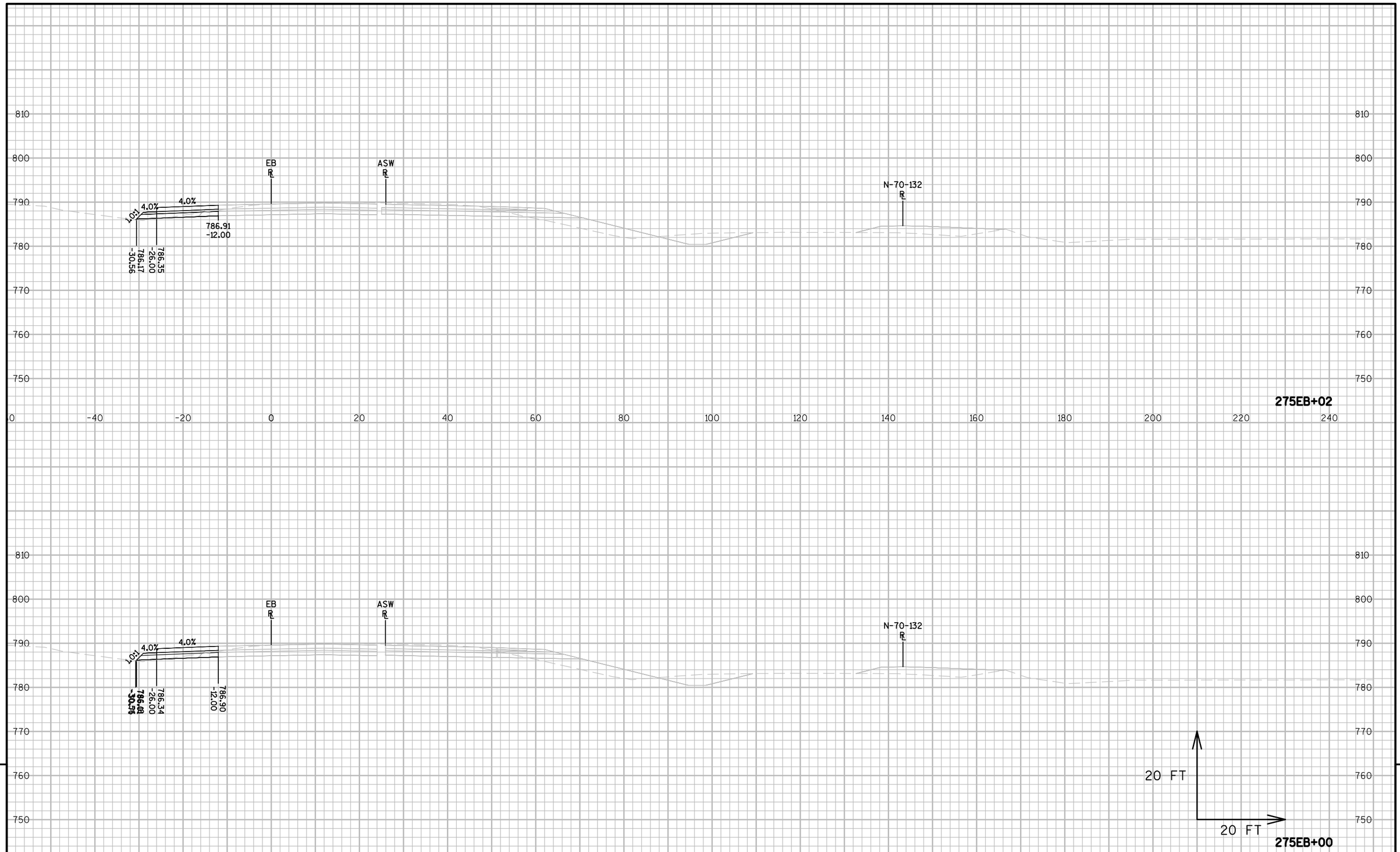

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PROJECT NO: 1517-75-72	HWY: STH 441/USH 10	COUNTY: WINNEBAGO	CROSS SECTIONS: USH 10 EASTBOUND (EB)-STAGE 1B	SHEET 677	E

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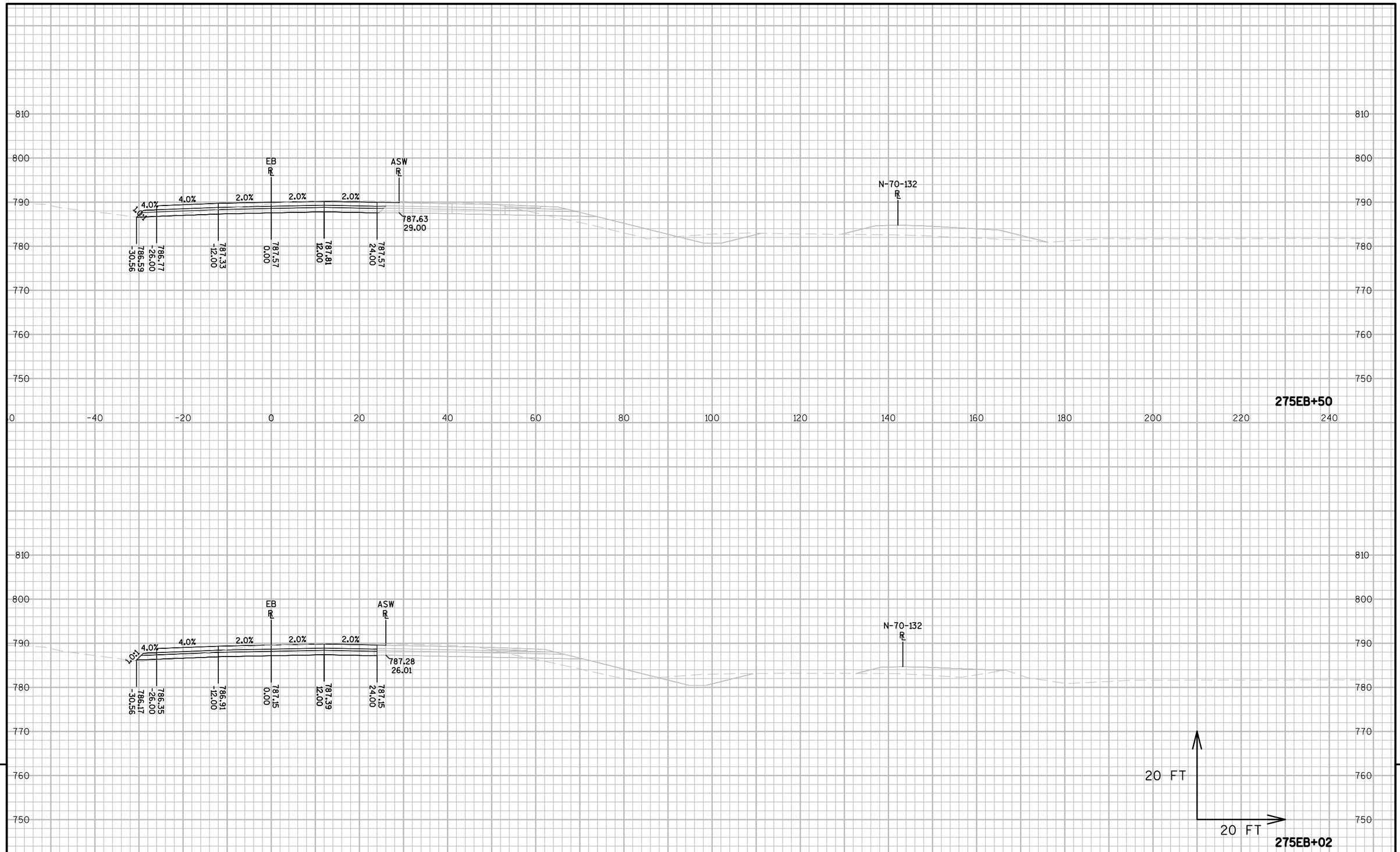
LAYOUT NAME - 090203-XS-EB1B

PLOT DATE : 2/9/2017 2:13 PM

PLOT BY : VICKMAN, GARRETT T PLOT NAME :

PLOT SCALE : 1 IN:20 FT



PROJECT NO: 1517-75-72	HWY: STH 441/USH 10	COUNTY: WINNEBAGO	CROSS SECTIONS: USH 10 EASTBOUND (EB)-STAGE 1B	SHEET 678	E

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LAYOUT NAME - 090204-XS-EB1B

PLOT DATE : 2/9/2017 2:13 PM PLOT BY : VICKMAN, GARRETT T PLOT NAME : PLOT SCALE : 1 IN:20 FT

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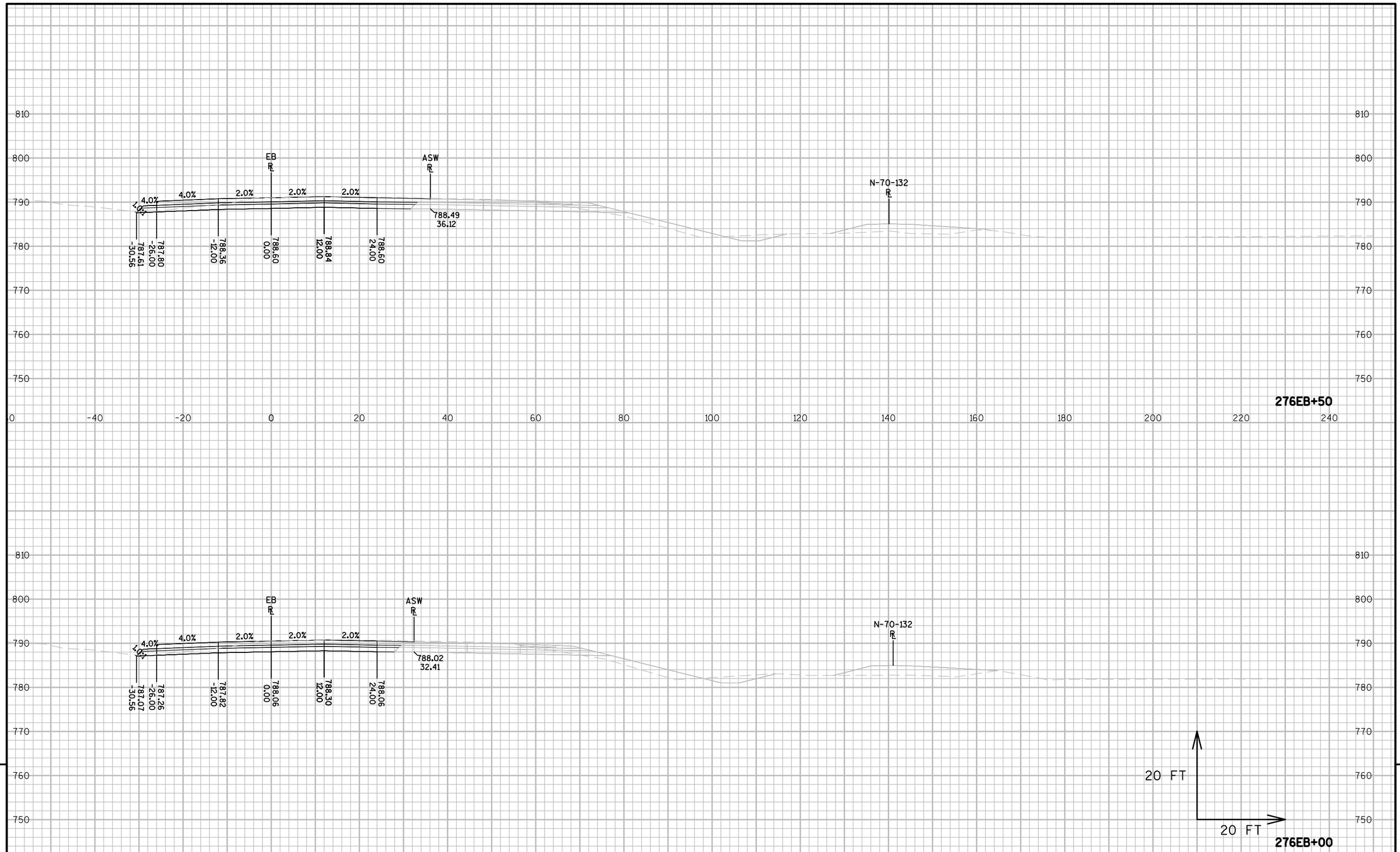

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PROJECT NO: 1517-75-72	HWY: STH 441/USH 10	COUNTY: WINNEBAGO	CROSS SECTIONS: USH 10 EASTBOUND (EB)-STAGE 1B	SHEET 679	E

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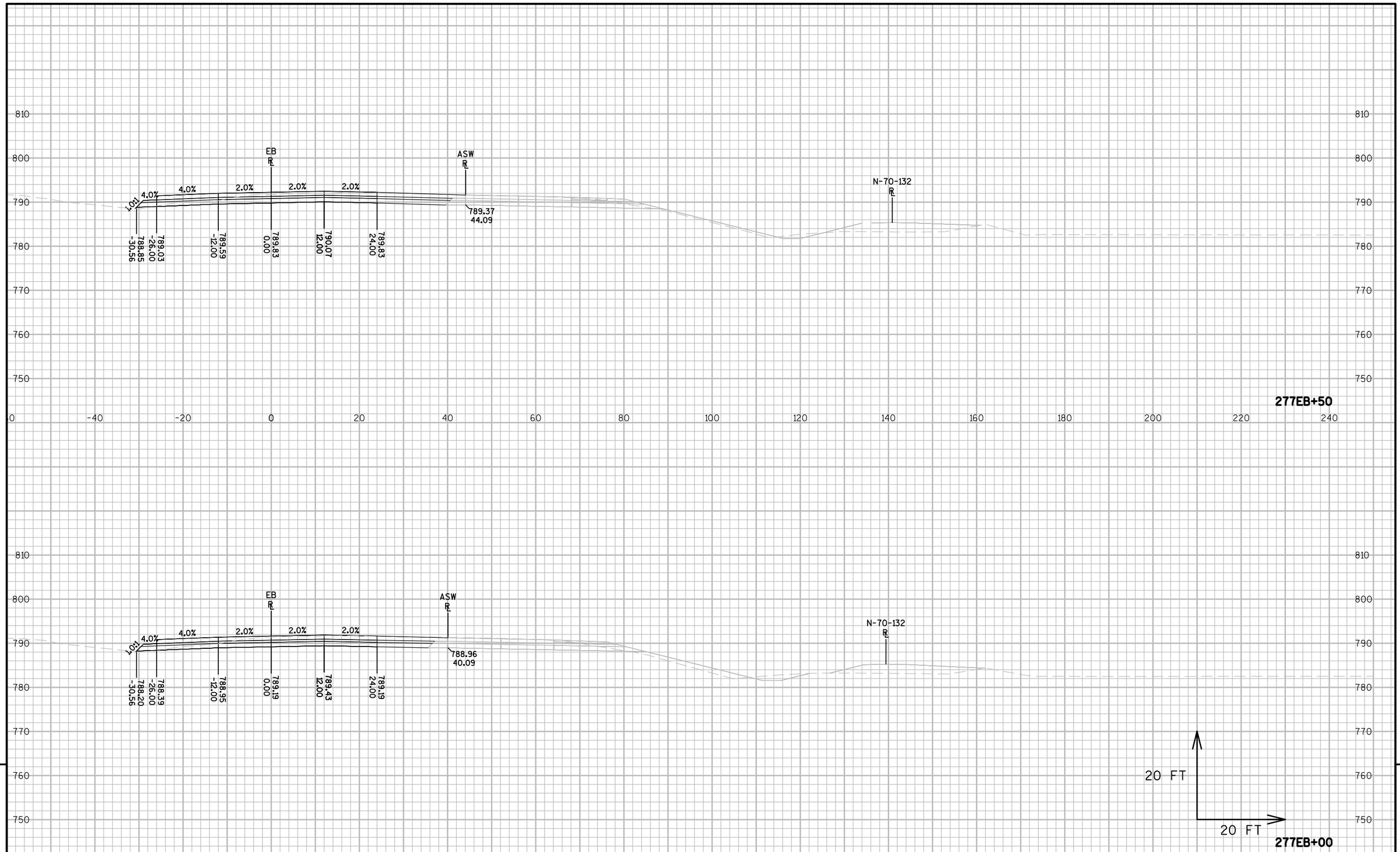
LAYOUT NAME - 090205-XS-EB1B

PLOT DATE : 2/9/2017 2:13 PM PLOT BY : VICKMAN, GARRETT T PLOT NAME : PLOT SCALE : 1 IN:20 FT

WISDOT/CADDS SHEET 49



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PROJECT NO: 1517-75-72	HWY: STH 441/USH 10	COUNTY: WINNEBAGO	CROSS SECTIONS: USH 10 EASTBOUND (EB)-STAGE 1B	SHEET 680	E

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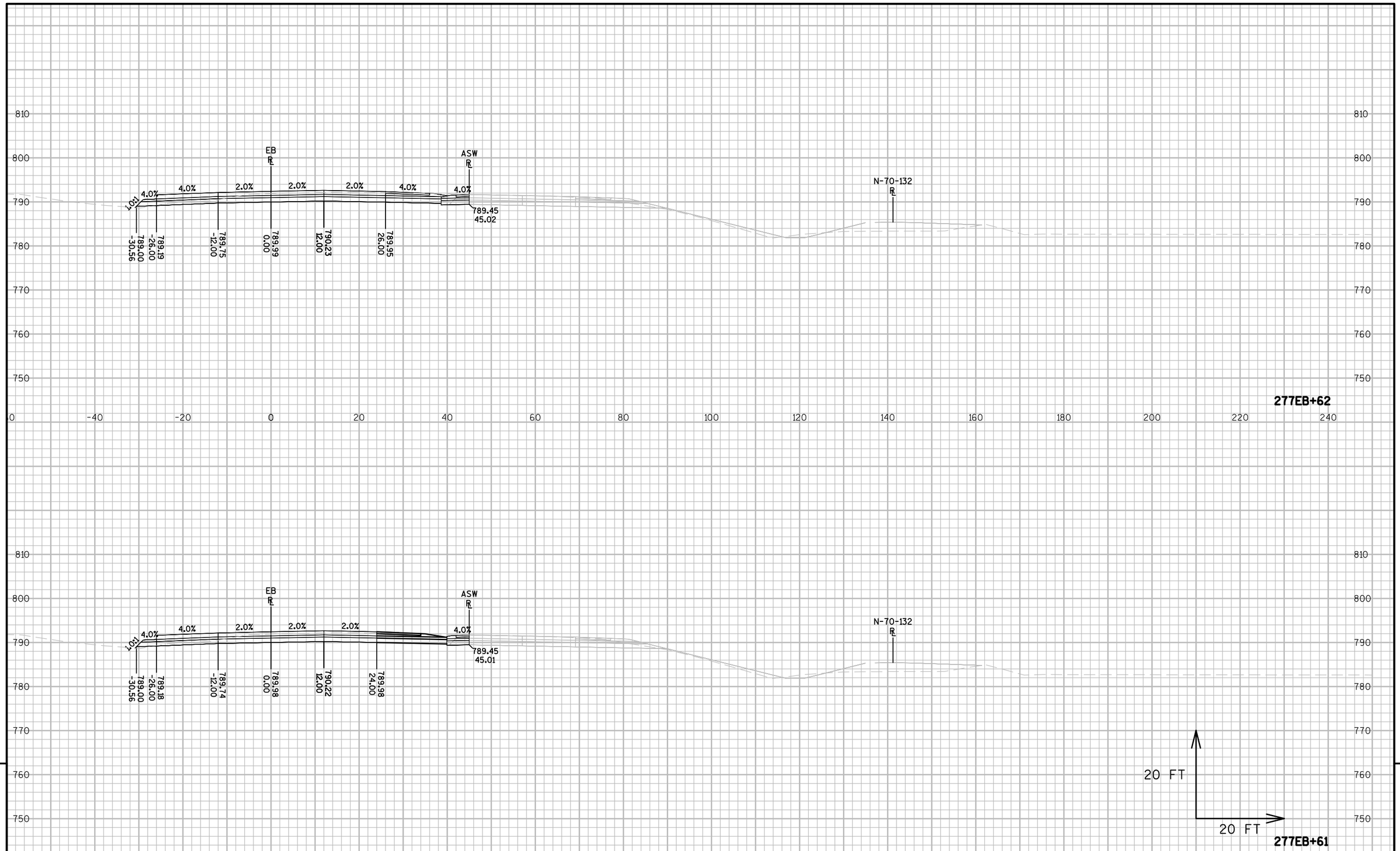
LAYOUT NAME - 090206-XS-EB1B
PLOT DATE : 2/9/2017 2:14 PM
PLOT BY : VICKMAN, GARRETT T PLOT NAME :
PLOT SCALE : 1 IN:20 FT



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PROJECT NO: 1517-75-72	HWY: STH 441/USH 10	COUNTY: WINNEBAGO	CROSS SECTIONS: USH 10 EASTBOUND (EB)-STAGE 1B	SHEET 681	E

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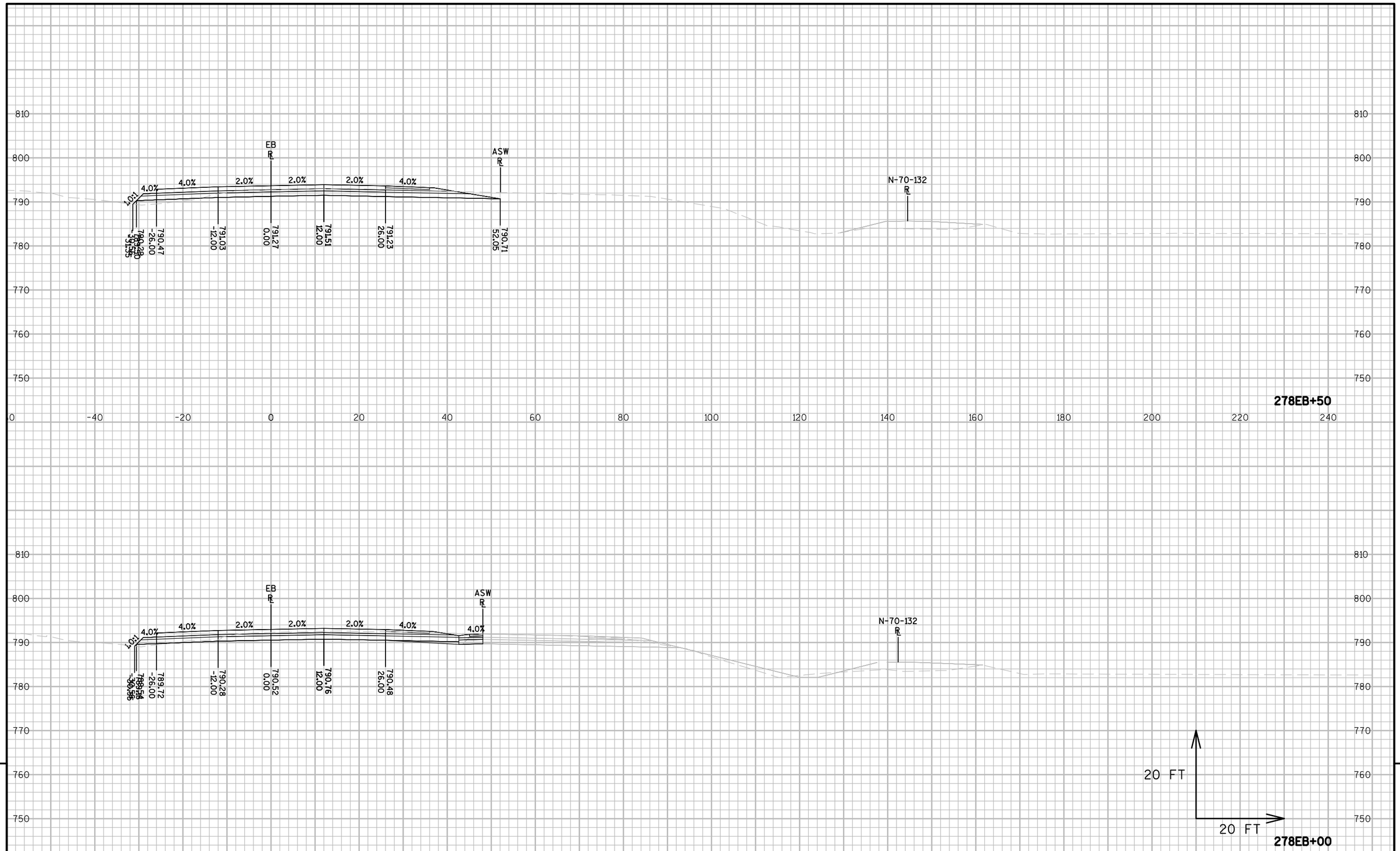
LAYOUT NAME - 090207-XS-EB1B

PLOT DATE : 2/9/2017 2:14 PM

PLOT BY : VICKMAN, GARRETT T PLOT NAME :

PLOT SCALE : 1 IN:20 FT

WISDOT/CADDS SHEET 49



PROJECT NO: 1517-75-72	HWY: STH 441/USH 10	COUNTY: WINNEBAGO	CROSS SECTIONS: USH 10 EASTBOUND (EB)-STAGE 1B	SHEET 682 E

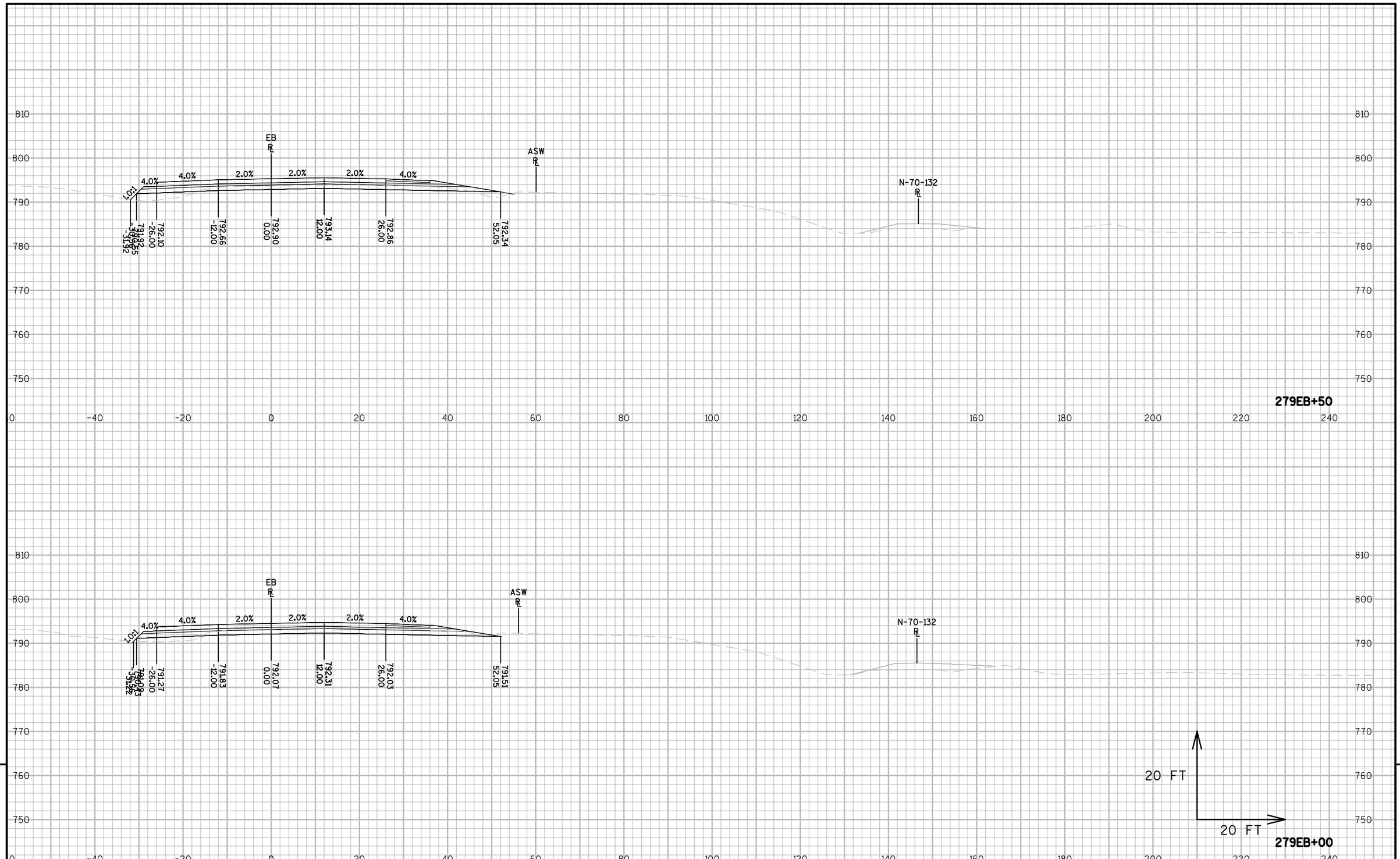
FILE NAME : S:\PDS\C3D\WIS441\15177570_72_77_85\SHEETSPLAN\1517-75-72\090200-XS\NE-15177572-090201-XS-EB-1B.DWG
LAYOUT NAME - 090208-XS-EB1B

PLOT DATE : 2/9/2017 2:14 PM

PLOT BY : VICKMAN, GARRETT T PLOT NAME :

PLOT SCALE : 1 IN:20 FT

WISDOT/CADDS SHEET 49



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PROJECT NO: 1517-75-72	HWY: STH 441/USH 10	COUNTY: WINNEBAGO	CROSS SECTIONS: USH 10 EASTBOUND (EB)-STAGE 1B	SHEET 683	E

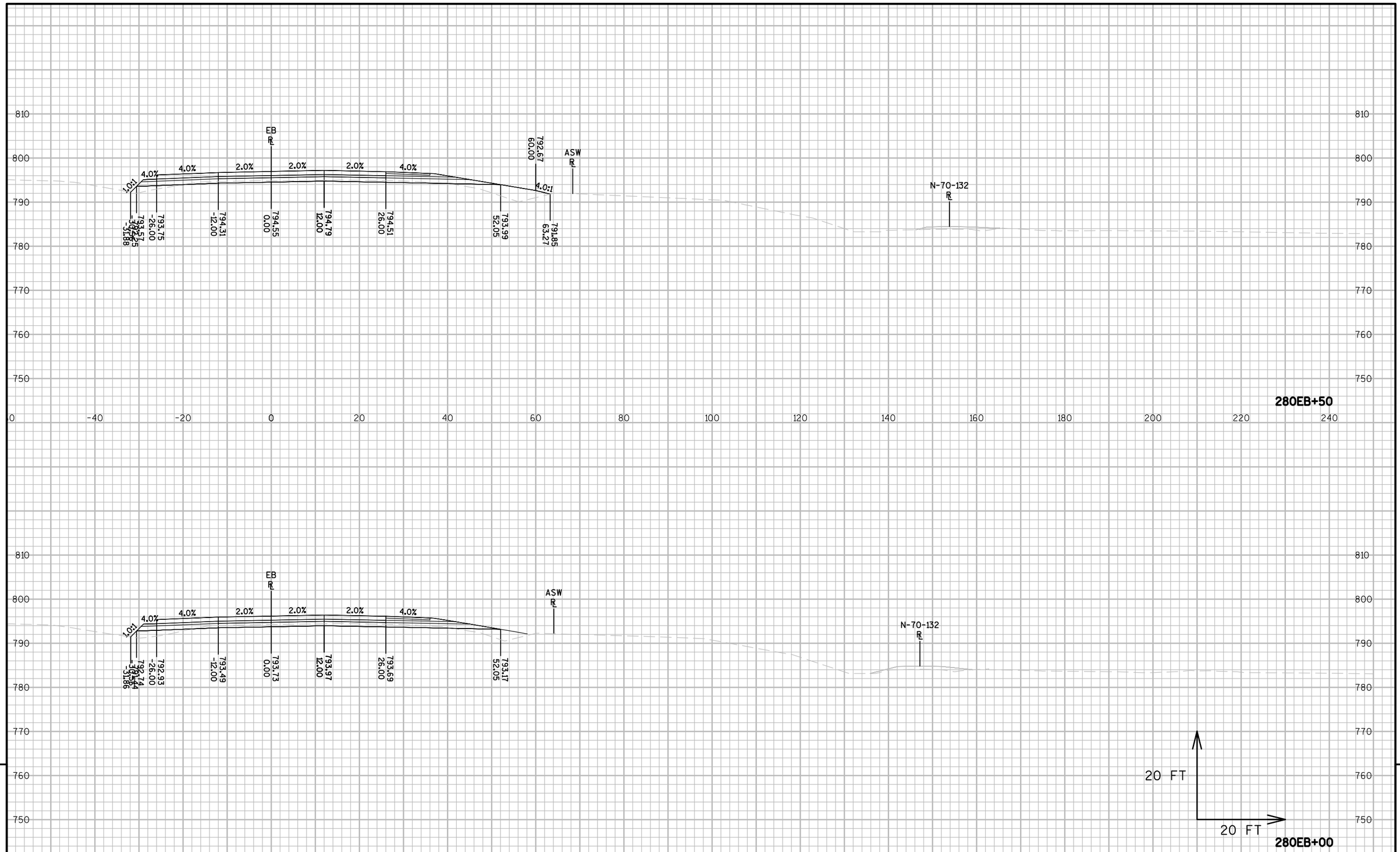
FILE NAME : S:\PDS\C3D\WIS441\15177570_72_77_85\SHEETSPLAN\1517-75-72\090200-XS\NE-15177572-090201-XS-EB-1B.DWG
LAYOUT NAME - 090209-XS-EB1B

PLOT DATE : 2/9/2017 2:14 PM

PLOT BY : VICKMAN, GARRETT T PLOT NAME :

PLOT SCALE : 1 IN:20 FT

WISDOT/CADDS SHEET 49



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PROJECT NO: 1517-75-72	HWY: STH 441/USH 10	COUNTY: WINNEBAGO	CROSS SECTIONS: USH 10 EASTBOUND (EB)-STAGE 1B	SHEET 684	E

FILE NAME : S:\PDS\C3D\WIS441\15177570_72_77_85\SHEETSPLAN\1517-75-72\090200-XS\NE-15177572-090201-XS-EB-1B.DWG
LAYOUT NAME - 090210-XS-EB1B

PLOT DATE : 2/9/2017 2:14 PM

PLOT BY : VICKMAN, GARRETT T PLOT NAME :

PLOT SCALE : 1 IN:20 FT

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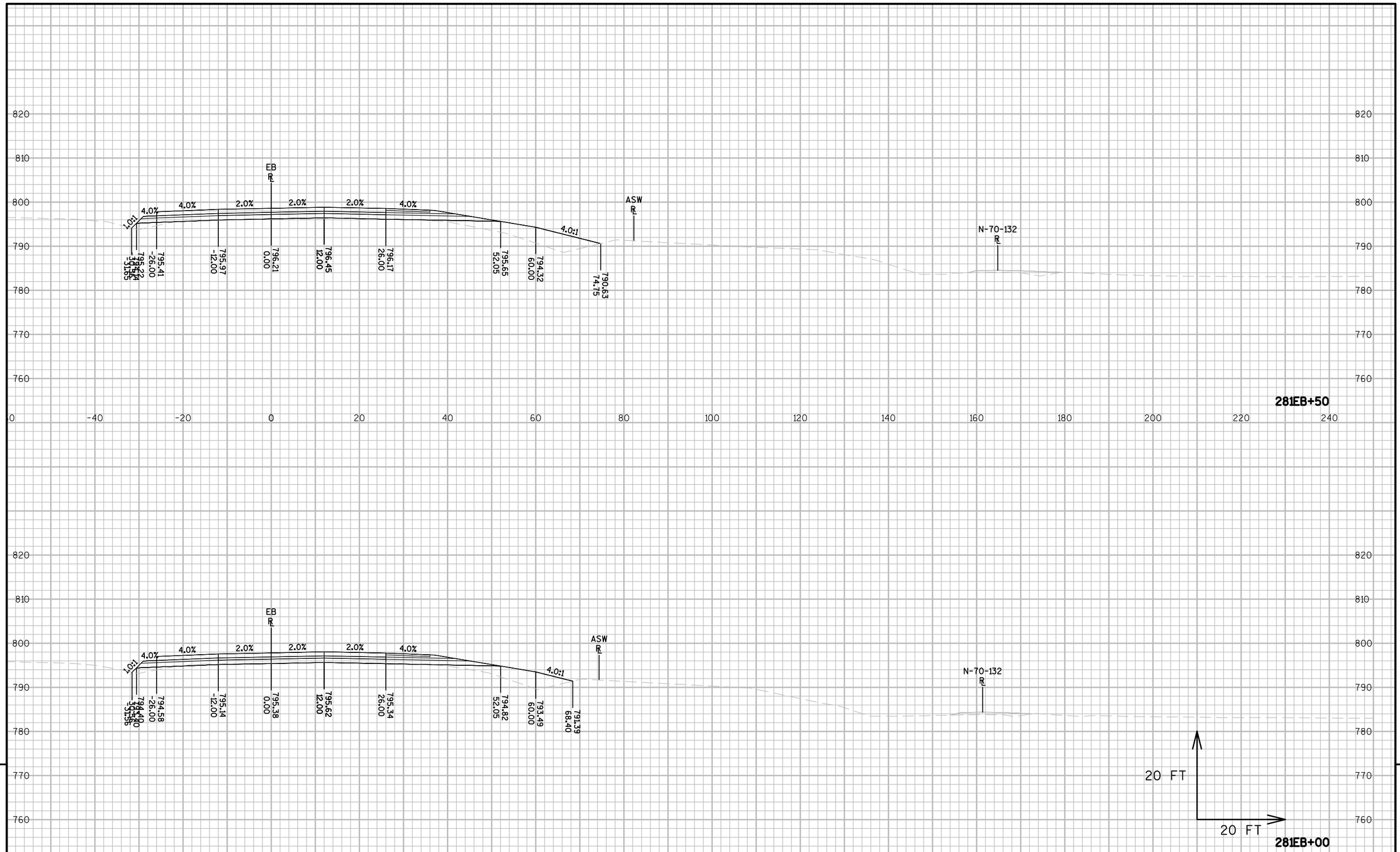

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PROJECT NO: 1517-75-72	HWY: STH 441/USH 10	COUNTY: WINNEBAGO	CROSS SECTIONS: USH 10 EASTBOUND (EB)-STAGE 1B	SHEET 685	E

FILE NAME : S:\PDS\C3D\WIS441\15177570_72_77_85\SHEETSPLAN\1517-75-72\090200-XS\NE-15177572-090201-XS-EB-1B.DWG
LAYOUT NAME - 090211-XS-EB1B

PLOT DATE : 2/9/2017 2:14 PM

PLOT BY : VICKMAN, GARRETT T PLOT NAME :

PLOT SCALE : 1 IN:20 FT

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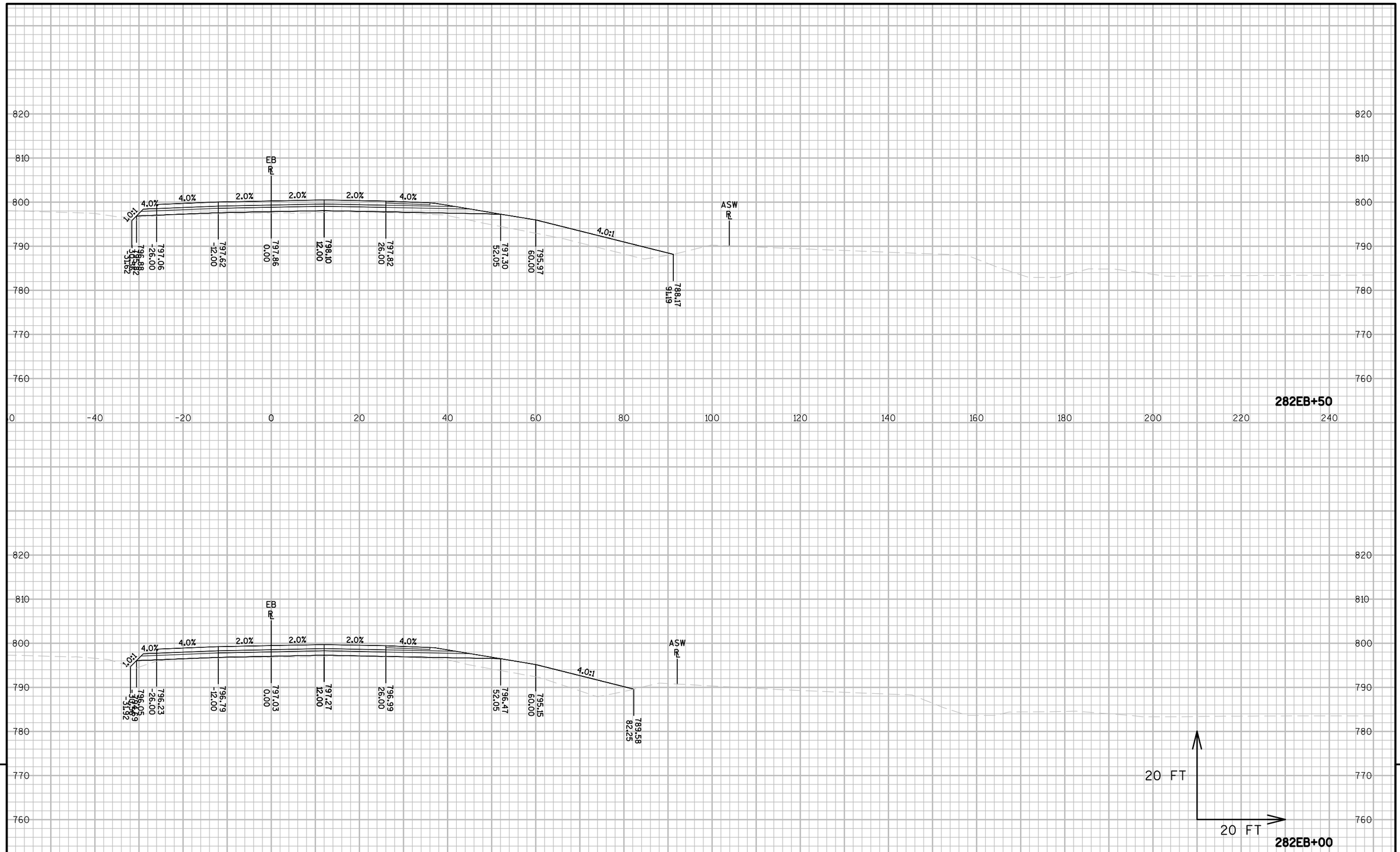

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PROJECT NO: 1517-75-72	HWY: STH 441/USH 10	COUNTY: WINNEBAGO	CROSS SECTIONS: USH 10 EASTBOUND (EB)-STAGE 1B	SHEET 686	E

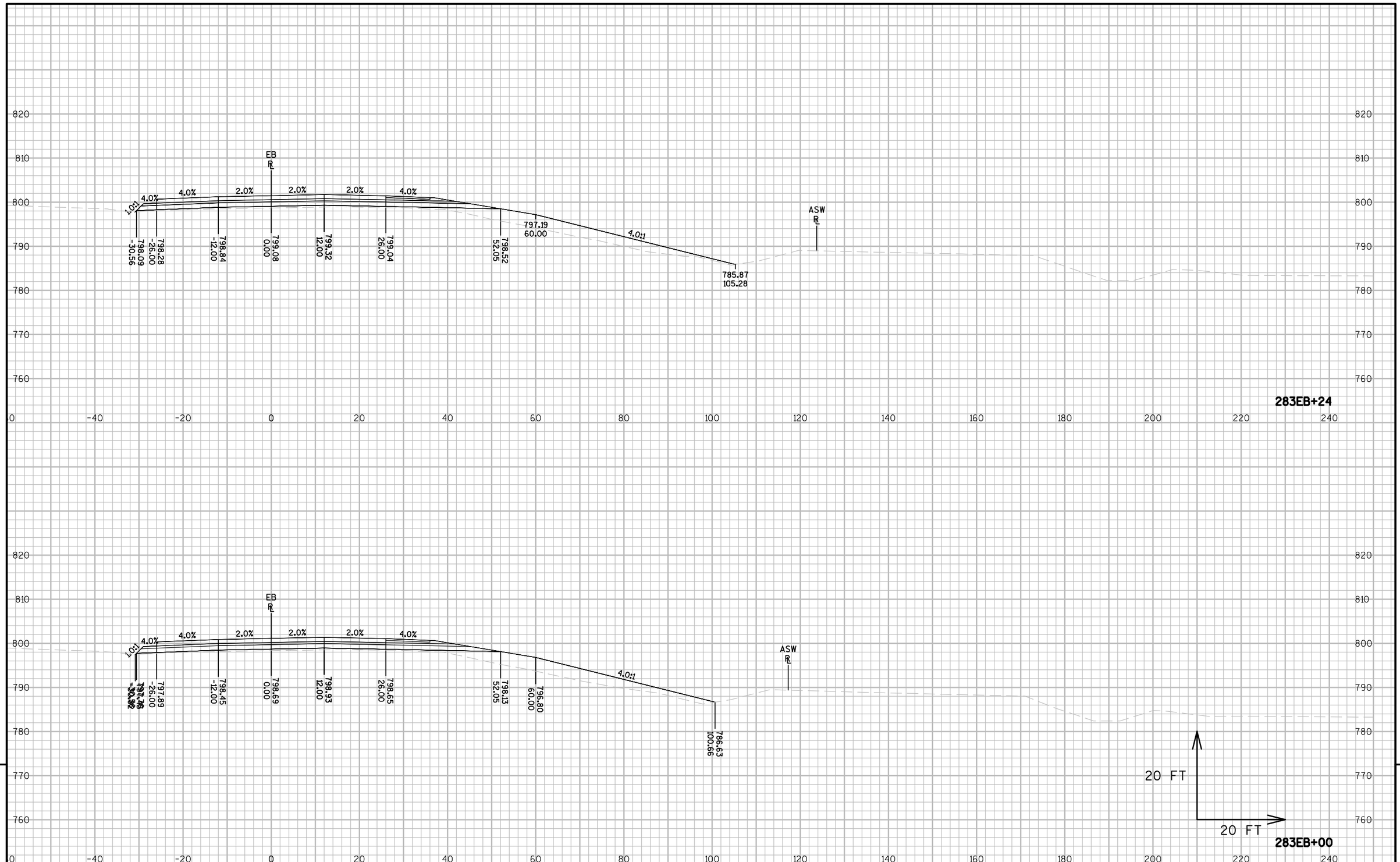
FILE NAME : S:\PDS\C3D\WIS441\15177570_72_77_85\SHEETSPLAN\1517-75-72\090200-XS\NE-15177572-090201-XS-EB-1B.DWG
LAYOUT NAME - 090212-XS-EB1B

PLOT DATE : 2/9/2017 2:15 PM

PLOT BY : VICKMAN, GARRETT T PLOT NAME :

PLOT SCALE : 1 IN:20 FT

WISDOT/CADDS SHEET 49



PROJECT NO: 1517-75-72	HWY: STH 441/USH 10	COUNTY: WINNEBAGO	CROSS SECTIONS: USH 10 EASTBOUND (EB)-STAGE 1B	SHEET 687	E

FILE NAME : S:\PDS\C3D\WIS441\15177570_72_77_85\SHEETSPLAN\1517-75-72\090200-XS\NE-15177572-090201-XS-EB-1B.DWG
LAYOUT NAME - 090213-XS-EB1B

PLOT DATE : 2/9/2017 2:15 PM PLOT BY : VICKMAN, GARRETT T PLOT NAME : PLOT SCALE : 1 IN:20 FT

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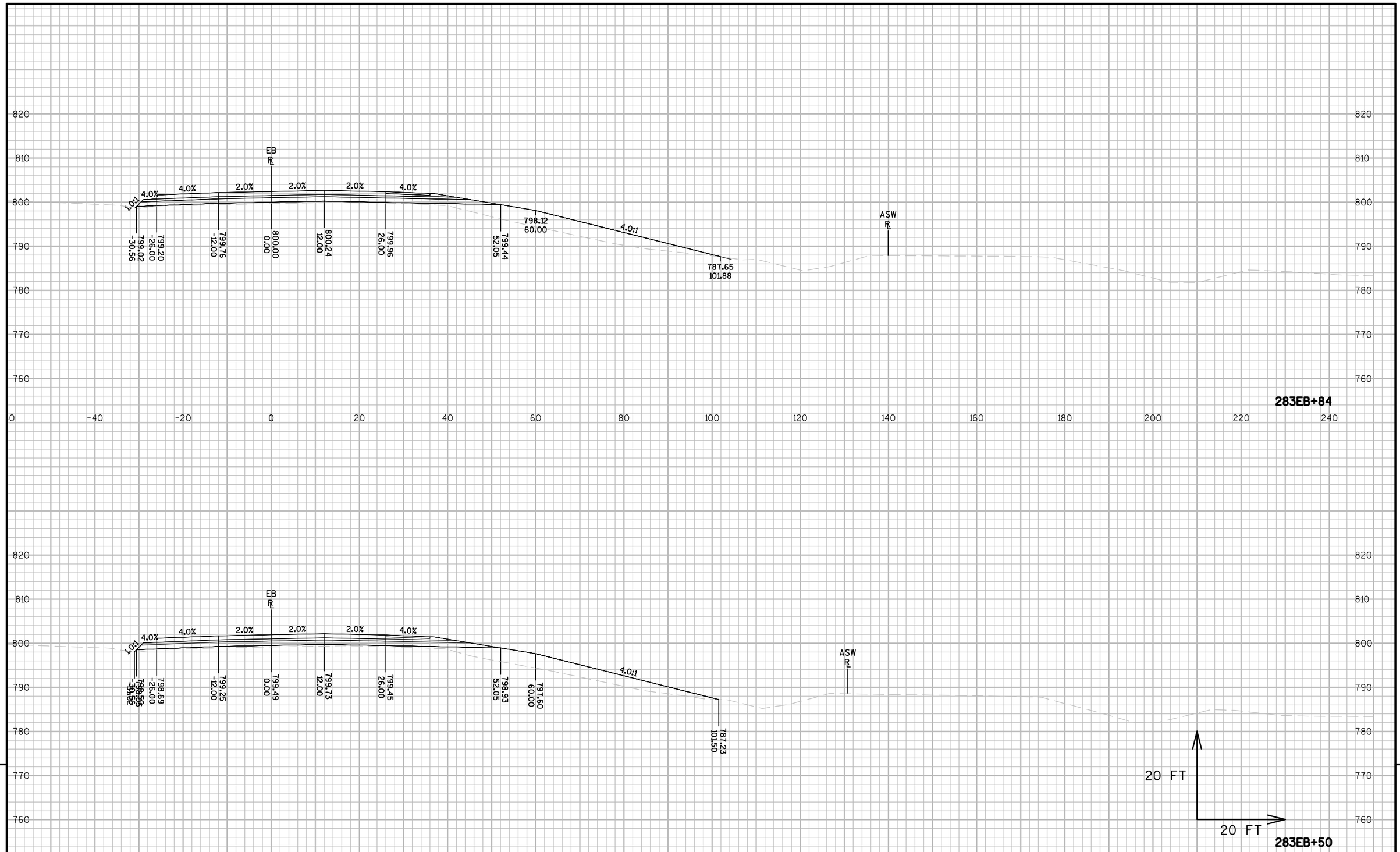

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PROJECT NO: 1517-75-72	HWY: STH 441/USH 10	COUNTY: WINNEBAGO	CROSS SECTIONS: USH 10 EASTBOUND (EB)-STAGE 1B	SHEET 688	E

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LAYOUT NAME - 090214-XS-EB1B

PLOT DATE : 2/9/2017 2:15 PM

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PLOT SCALE : 1 IN:20 FT

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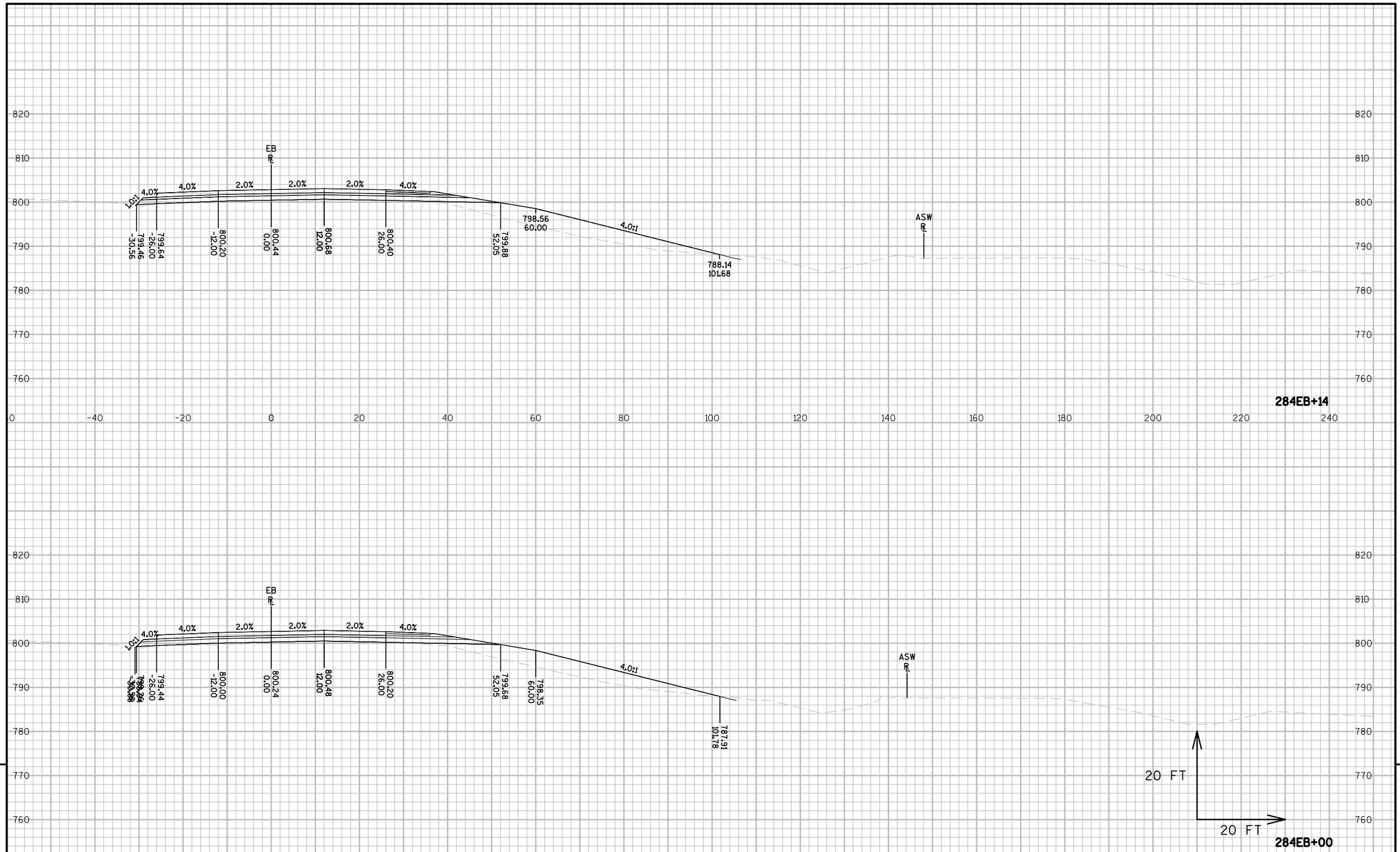

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PROJECT NO: 1517-75-72	HWY: STH 441/USH 10	COUNTY: WINNEBAGO	CROSS SECTIONS: USH 10 EASTBOUND (EB)-STAGE 1B	SHEET 689	E

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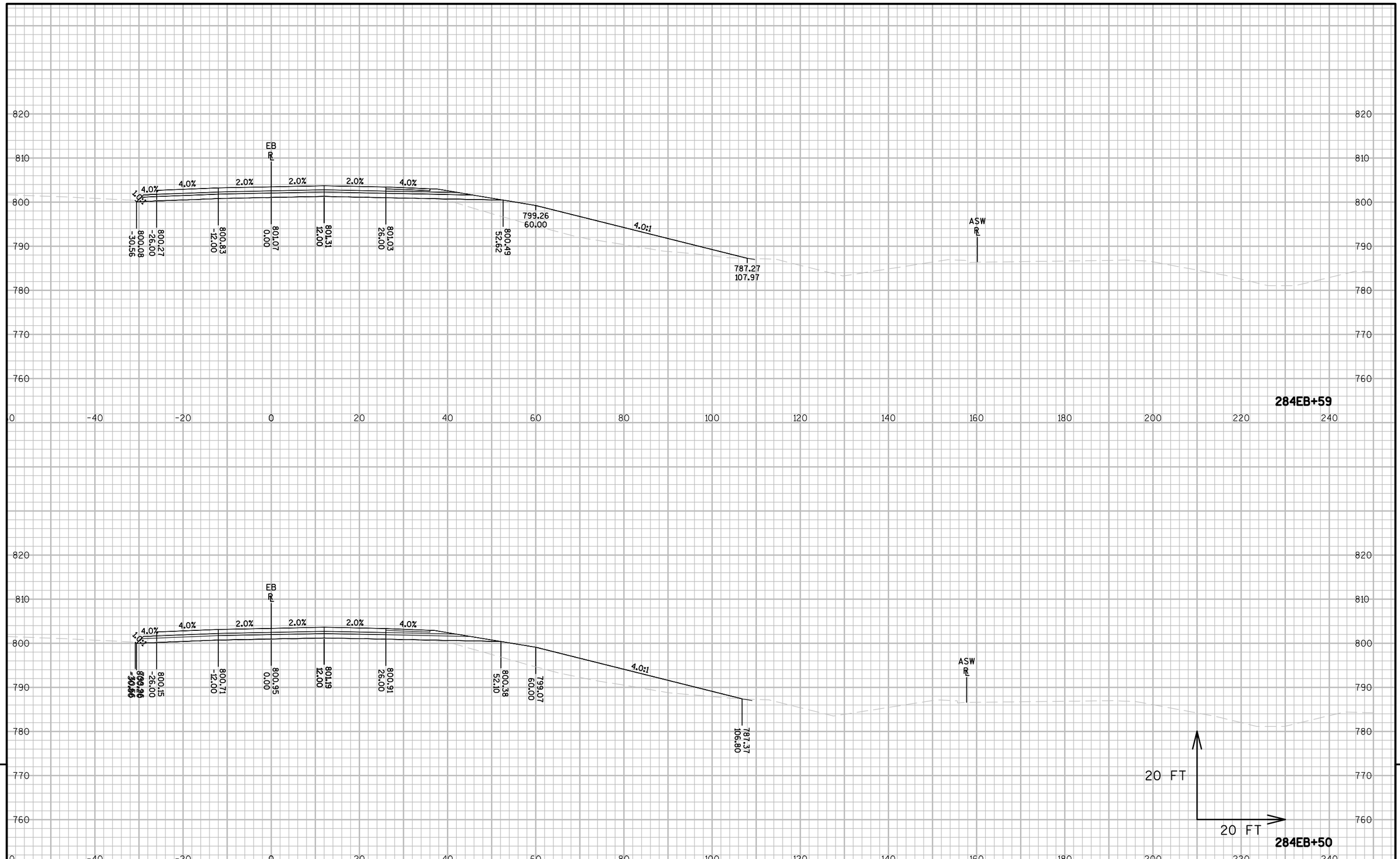
FILE NAME : S:\PDS\C3D\WIS441\15177570_72_77_85\SHEETSPLAN\1517-75-72\090200-XS\NE-15177572-090201-XS-EB-1B.DWG
LAYOUT NAME - 090215-XS-EB1B

PLOT DATE : 2/9/2017 2:15 PM

PLOT BY : VICKMAN, GARRETT T PLOT NAME :

PLOT SCALE : 1 IN:20 FT

WISDOT/CADDS SHEET 49

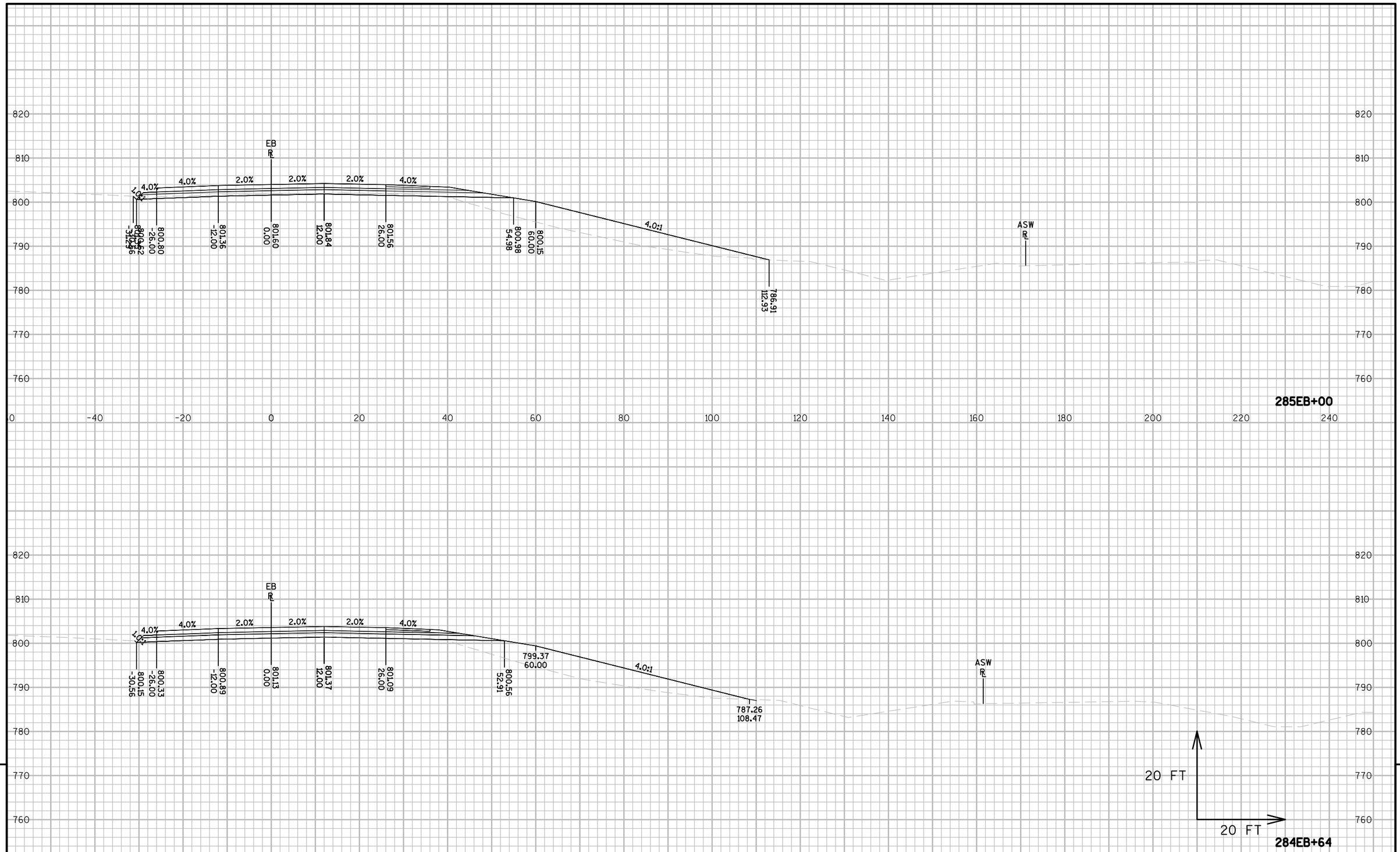


PROJECT NO: 1517-75-72	HWY: STH 441/USH 10	COUNTY: WINNEBAGO	CROSS SECTIONS: USH 10 EASTBOUND (EB)-STAGE 1B	SHEET 690	E

FILE NAME : S:\PDS\C3D\WIS441\15177570_72_77_85\SHEETSPLAN\1517-75-72\090200-XS\NE-15177572-090201-XS-EB-1B.DWG
LAYOUT NAME - 090216-XS-EB1B

PLOT DATE : 2/9/2017 2:15 PM PLOT BY : VICKMAN, GARRETT T PLOT NAME : PLOT SCALE : 1 IN:20 FT

WISDOT/CADDS SHEET 49



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PROJECT NO: 1517-75-72	HWY: STH 441/USH 10	COUNTY: WINNEBAGO	CROSS SECTIONS: USH 10 EASTBOUND (EB)-STAGE 1B	SHEET 691	E

FILE NAME : S:\PDS\C3D\WIS441\15177570_72_77_85\SHEETSPLAN\1517-75-72\090200-XS\NE-15177572-090201-XS-EB-1B.DWG
LAYOUT NAME - 090217-XS-EB1B

PLOT DATE : 2/9/2017 2:15 PM PLOT BY : VICKMAN, GARRETT T PLOT NAME : PLOT SCALE : 1 IN:20 FT

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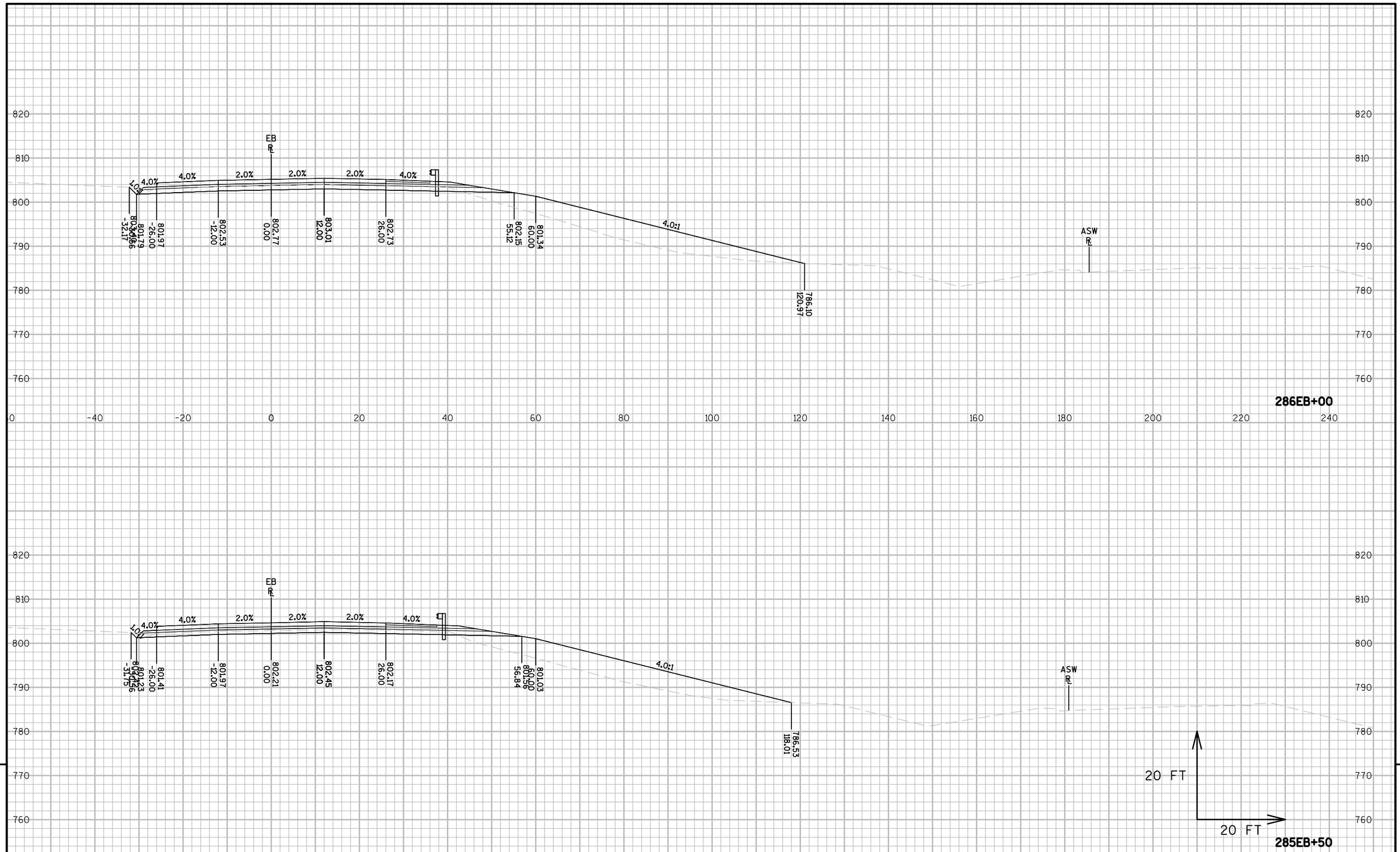
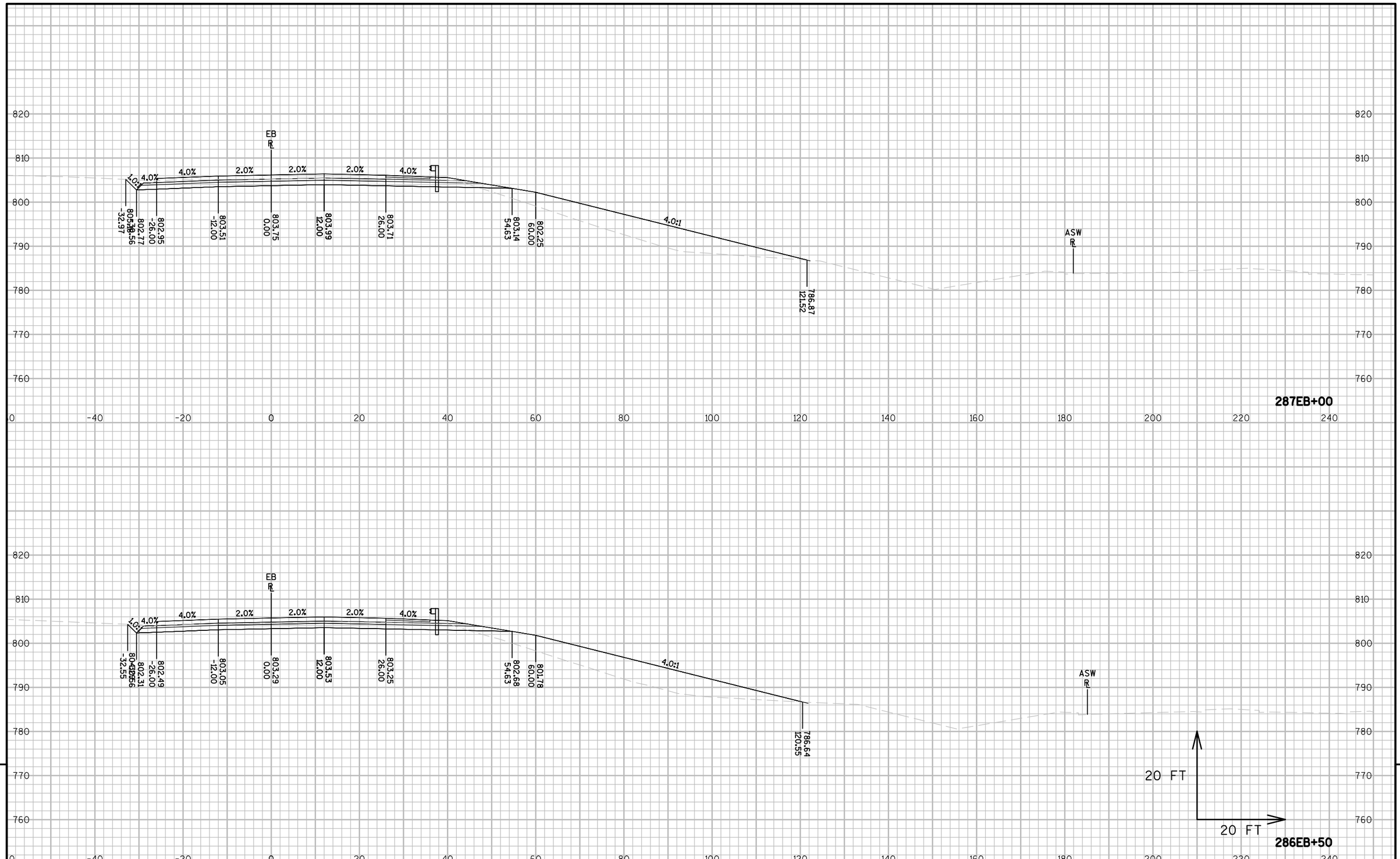


9	PROJECT NO: 1517-75-72	HWY: STH 441/USH 10	COUNTY: WINNEBAGO	CROSS SECTIONS: USH 10 EASTBOUND (EB)-STAGE 1B	SHEET 692 E

FILE NAME : S:\PDS\C3D\WIS441\15177570_72_77_85\SHEETSPLAN\1517-75-72\090200-XS\NE-15177572-090201-XS-EB-1B.DWG
LAYOUT NAME - 090218-XS-EB1B

PLOT DATE : 2/9/2017 2:16 PM PLOT BY : VICKMAN, GARRETT T PLOT NAME : PLOT SCALE : 1 IN:20 FT

WISDOT/CADDS SHEET 49



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PROJECT NO: 1517-75-72	HWY: STH 441/USH 10	COUNTY: WINNEBAGO	CROSS SECTIONS: USH 10 EASTBOUND (EB)-STAGE 1B	SHEET 693	E

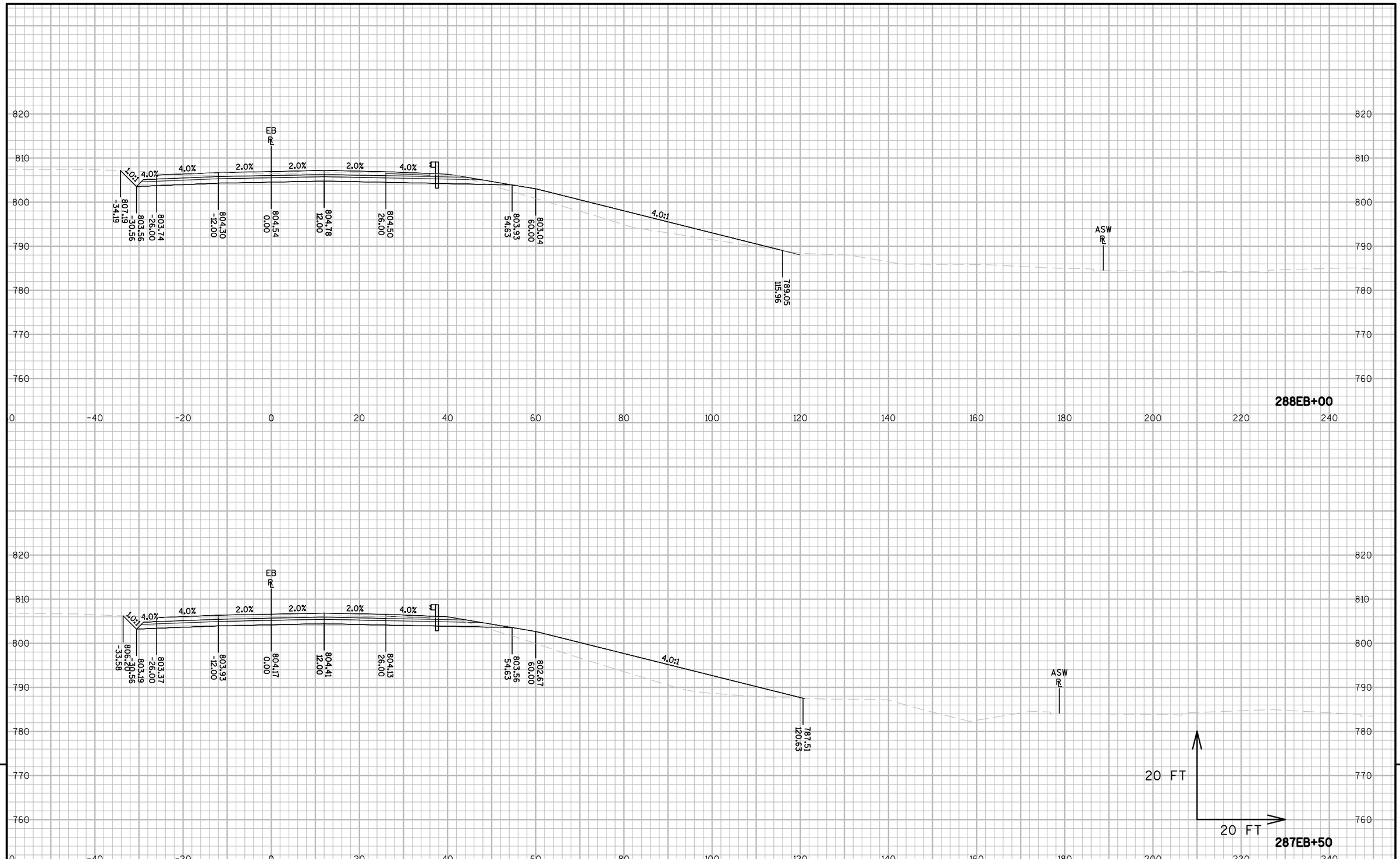
FILE NAME : S:\PDS\C3D\WIS441\15177570_72_77_85\SHEETSPLAN\1517-75-72\090200-XS\NE-15177572-090201-XS-EB-1B.DWG
LAYOUT NAME - 090219-XS-EB1B

PLOT DATE : 2/9/2017 2:16 PM

PLOT BY : VICKMAN, GARRETT T PLOT NAME :

PLOT SCALE : 1 IN:20 FT

WISDOT/CADDS SHEET 49

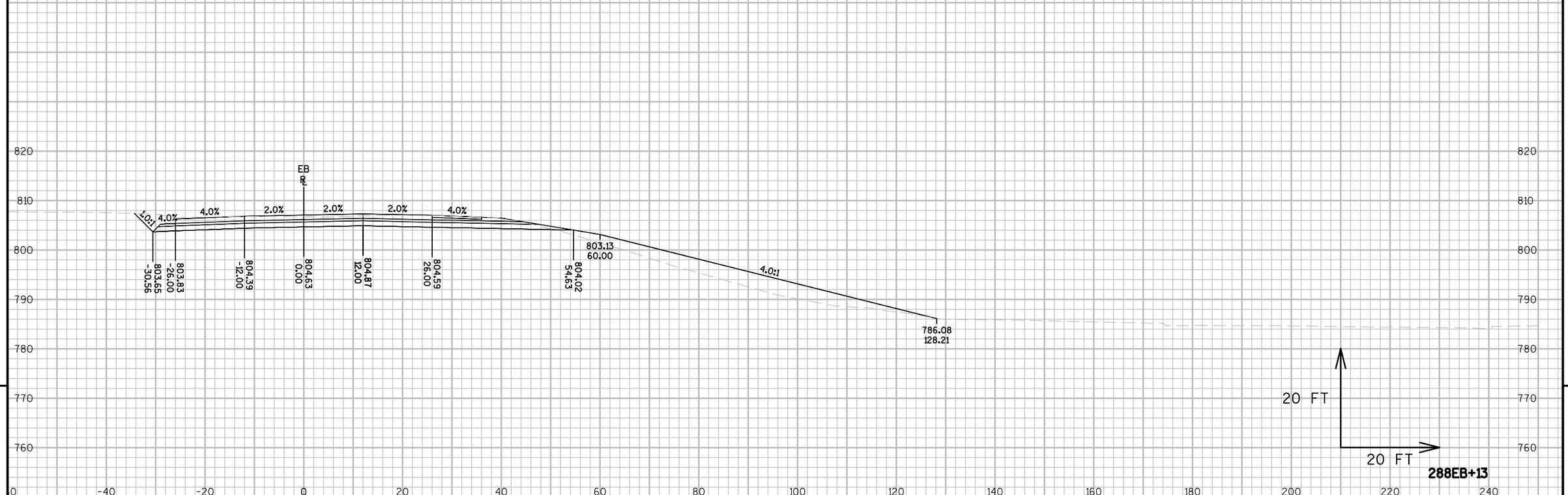


PROJECT NO: 1517-75-72	HWY: STH 441/USH 10	COUNTY: WINNEBAGO	CROSS SECTIONS: USH 10 EASTBOUND (EB)-STAGE 1B	SHEET 694	E

FILE NAME : S:\PDS\C3D\WIS441\15177570_72_77_85\SHEETSPLAN\1517-75-72\090200-XS\NE-15177572-090201-XS-EB-1B.DWG
LAYOUT NAME - 090220-XS-EB1B

PLOT DATE : 2/9/2017 2:16 PM PLOT BY : VICKMAN, GARRETT T PLOT NAME : PLOT SCALE : 1 IN:20 FT

WISDOT/CADDS SHEET 49



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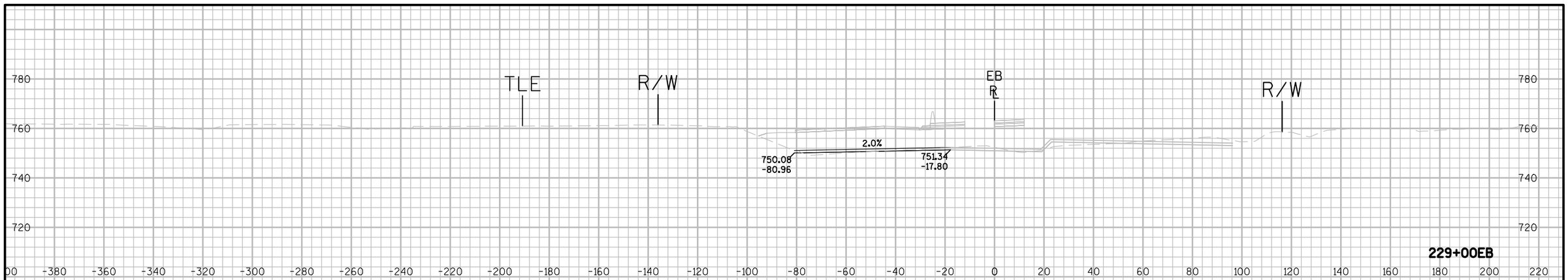
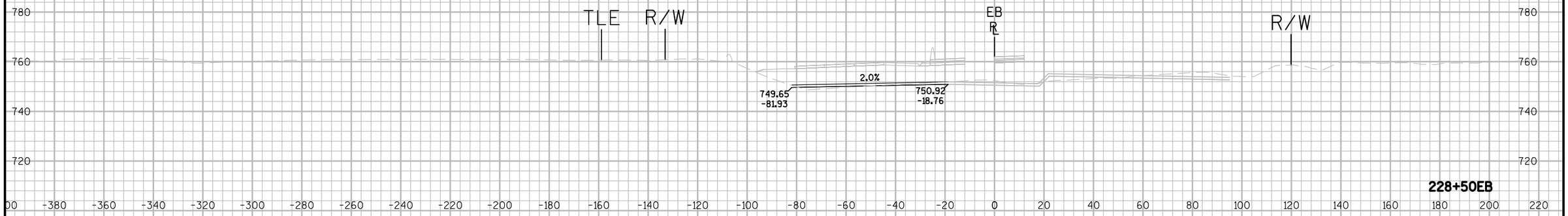
PROJECT NO: 1517-75-72	HWY: STH 441/USH 10	COUNTY: WINNEBAGO	CROSS SECTIONS: USH 10 EASTBOUND (EB)-STAGE 1B	SHEET 695	E

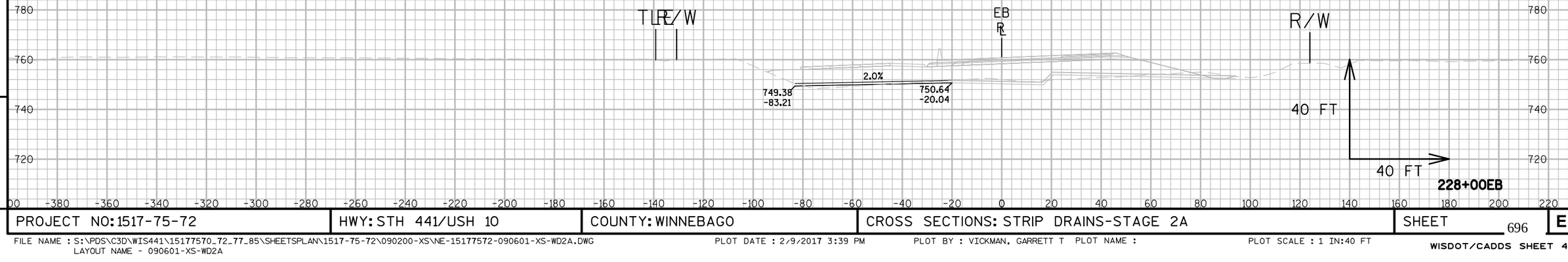
FILE NAME : S:\PDS\C3D\WIS441\15177570_72_77_85\SHEETSPLAN\1517-75-72\090200-XS\NE-15177572-090201-XS-EB-1B.DWG
LAYOUT NAME - 090221-XS-EB1B

PLOT DATE : 2/9/2017 2:16 PM PLOT BY : VICKMAN, GARRETT T PLOT NAME : PLOT SCALE : 1 IN:20 FT

WISDOT/CADDS SHEET 49







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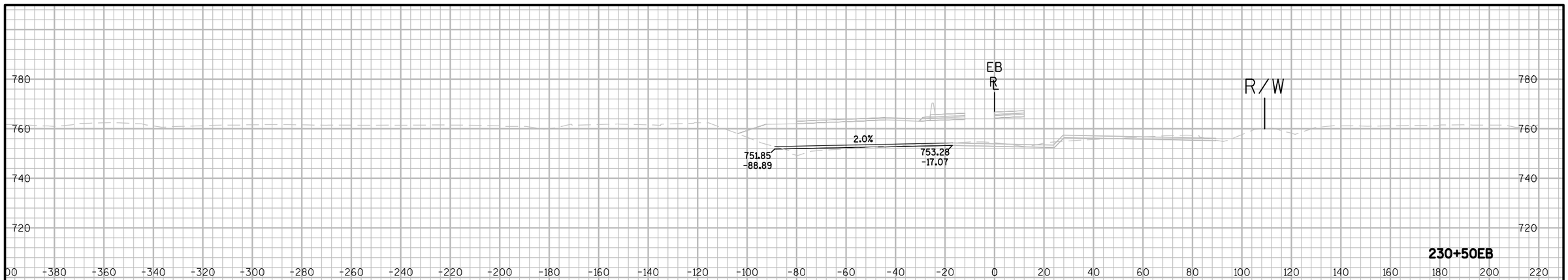
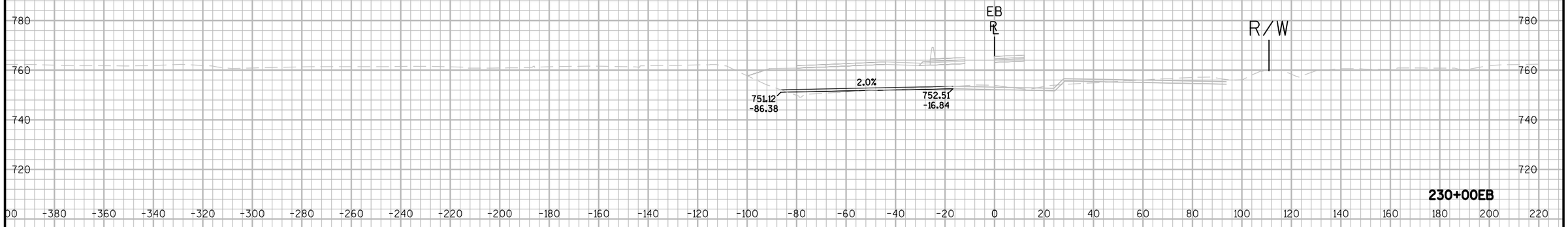
PROJECT NO: 1517-75-72	HWY: STH 441/USH 10	COUNTY: WINNEBAGO	CROSS SECTIONS: STRIP DRAINS-STAGE 2A	SHEET 696	E

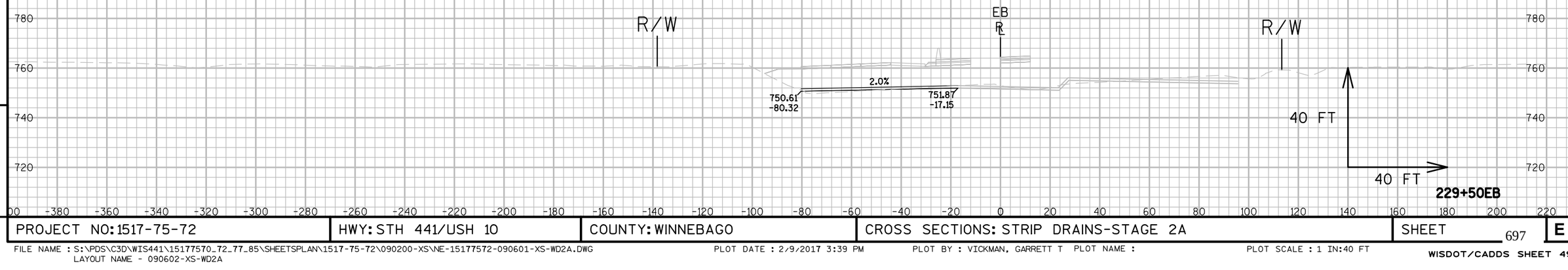
FILE NAME : S:\PDS\C3D\WIS441\15177570_72_77_85\SHEETSPLAN\1517-75-72\090200-XS\NE-15177572-090601-XS-WD2A.DWG
LAYOUT NAME - 090601-XS-WD2A

PLOT DATE : 2/9/2017 3:39 PM PLOT BY : VICKMAN, GARRETT T PLOT NAME : PLOT SCALE : 1 IN:40 FT

WISDOT/CADDS SHEET 49







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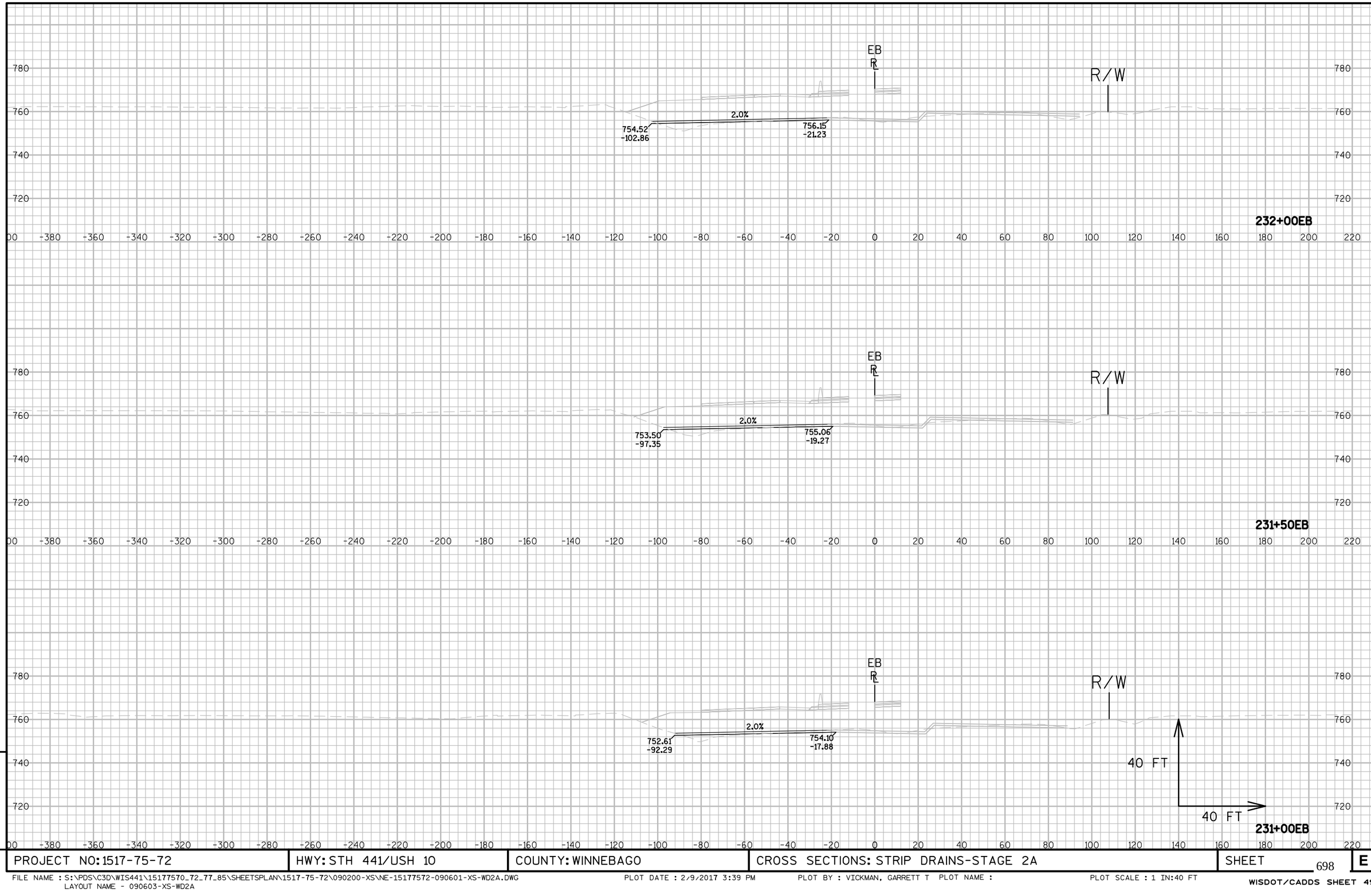
PROJECT NO: 1517-75-72	HWY: STH 441/USH 10	COUNTY: WINNEBAGO	CROSS SECTIONS: STRIP DRAINS-STAGE 2A	SHEET 697	E



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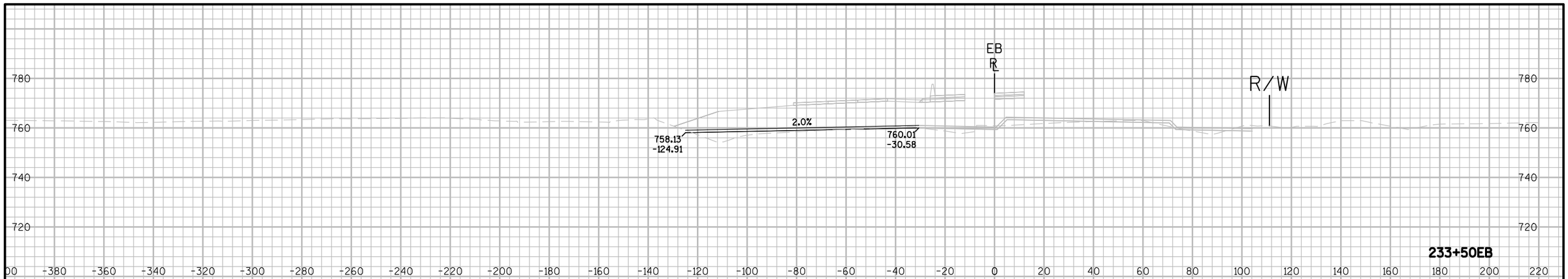
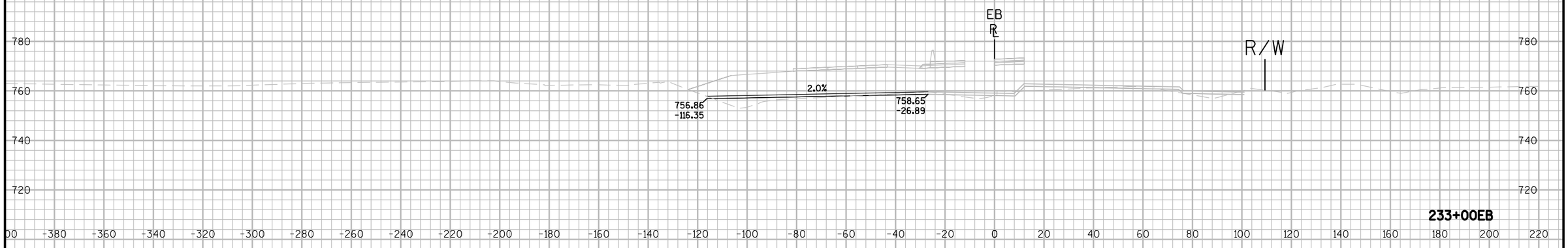
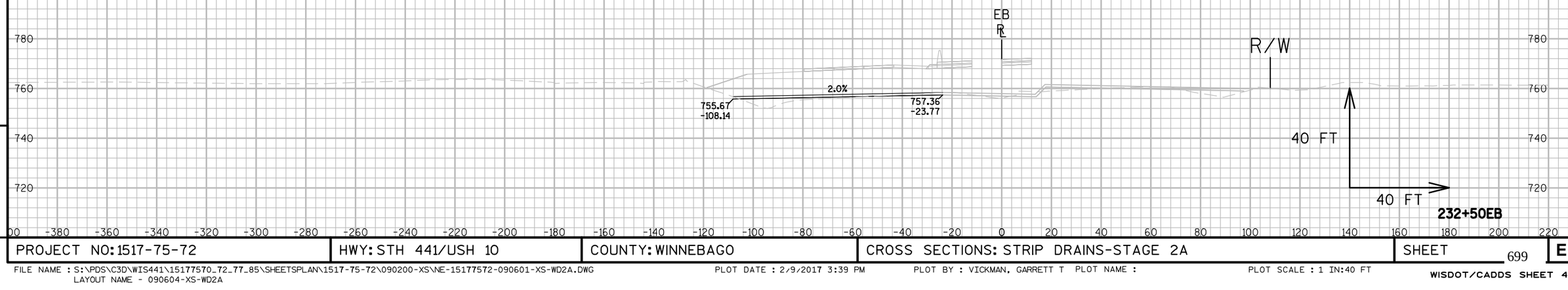
PROJECT NO: 1517-75-72	HWY: STH 441/USH 10	COUNTY: WINNEBAGO	CROSS SECTIONS: STRIP DRAINS-STAGE 2A	SHEET 698	E

FILE NAME : S:\PDS\C3D\WIS441\15177570_72_77_85\SHEETSPLAN\1517-75-72\090200-XS\NE-15177572-090601-XS-WD2A.DWG
LAYOUT NAME - 090603-XS-WD2A
PLOT DATE : 2/9/2017 3:39 PM
PLOT BY : VICKMAN, GARRETT T PLOT NAME :
PLOT SCALE : 1 IN:40 FT
WISDOT/CADDS SHEET 49







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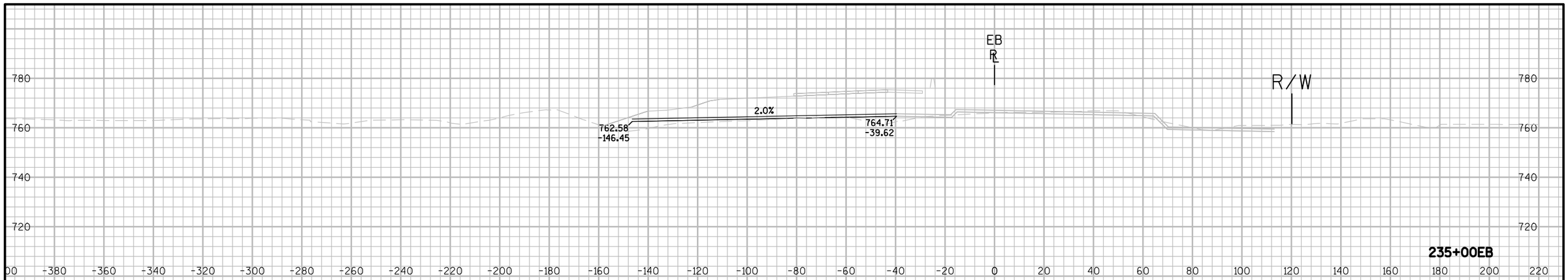
PROJECT NO: 1517-75-72	HWY: STH 441/USH 10	COUNTY: WINNEBAGO	CROSS SECTIONS: STRIP DRAINS-STAGE 2A	SHEET 699	E

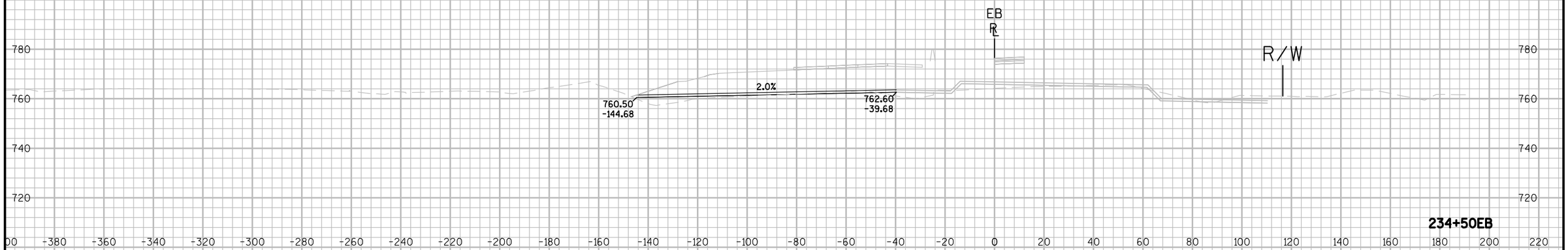
FILE NAME : S:\PDS\C3D\WIS441\15177570_72_77_85\SHEETSPLAN\1517-75-72\090200-XS\NE-15177572-090601-XS-WD2A.DWG
LAYOUT NAME - 090604-XS-WD2A

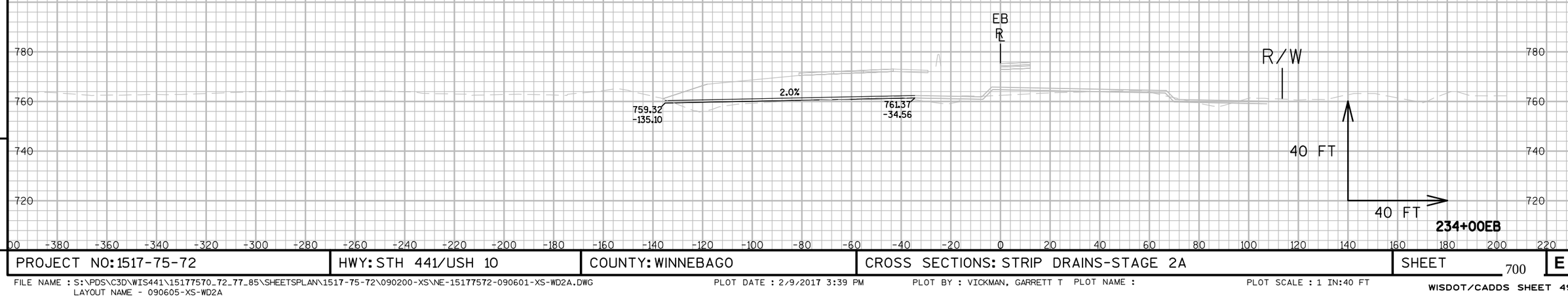
PLOT DATE : 2/9/2017 3:39 PM

PLOT BY : VICKMAN, GARRETT T PLOT NAME :

PLOT SCALE : 1 IN:40 FT







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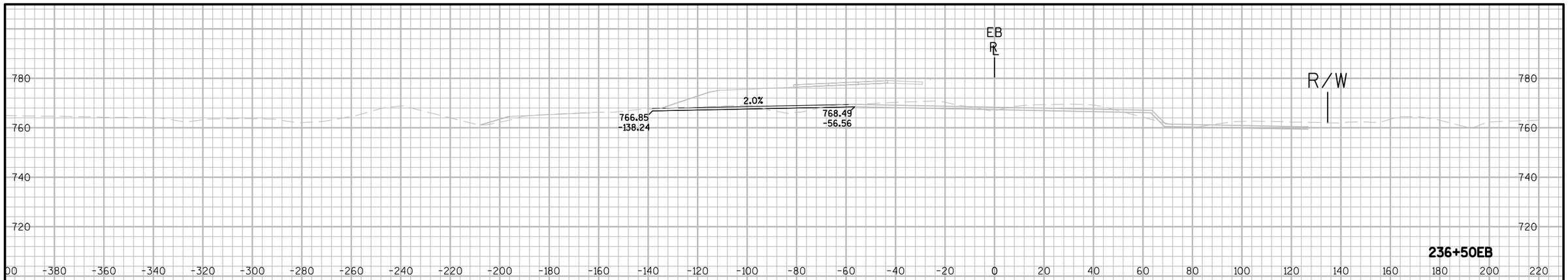
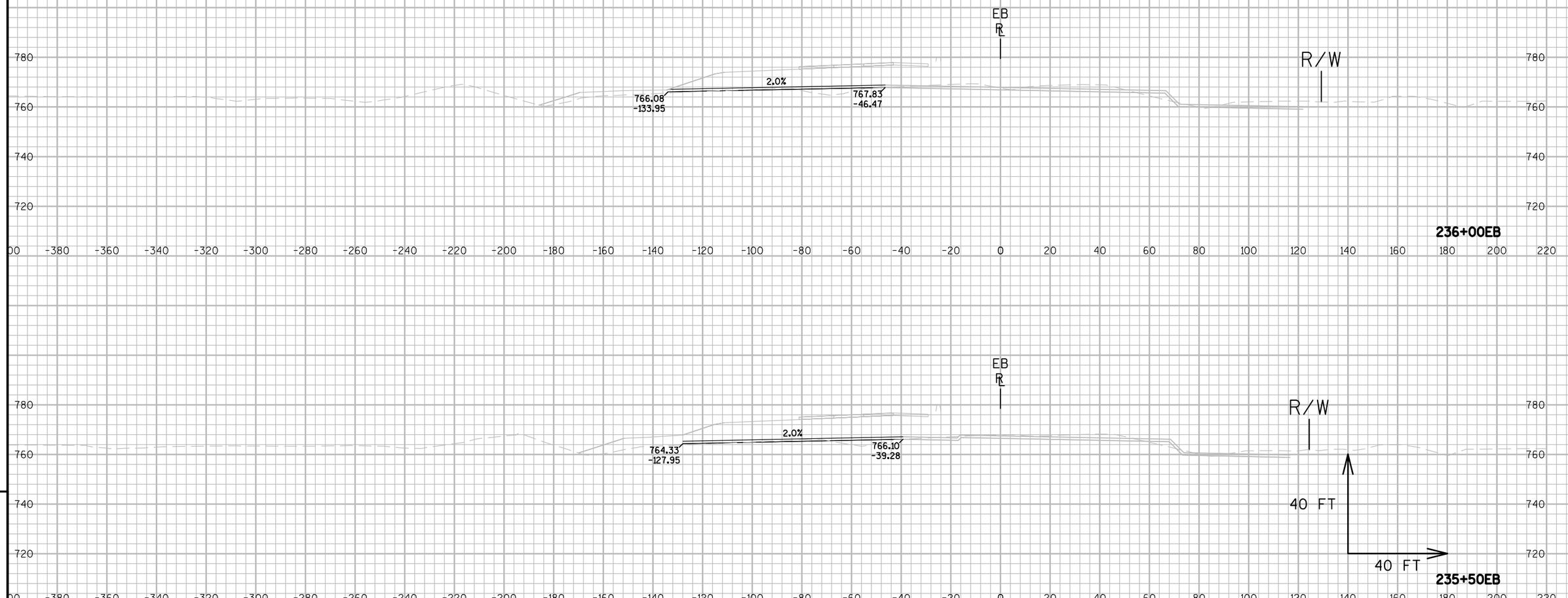
PROJECT NO: 1517-75-72	HWY: STH 441/USH 10	COUNTY: WINNEBAGO	CROSS SECTIONS: STRIP DRAINS-STAGE 2A	SHEET 700	E

FILE NAME : S:\PDS\C3D\WIS441\15177570_72_77_85\SHEETSPLAN\1517-75-72\090200-XS\NE-15177572-090601-XS-WD2A.DWG
LAYOUT NAME - 090605-XS-WD2A
PLOT DATE : 2/9/2017 3:39 PM
PLOT BY : VICKMAN, GARRETT T PLOT NAME :
PLOT SCALE : 1 IN:40 FT
WISDOT/CADDS SHEET 49





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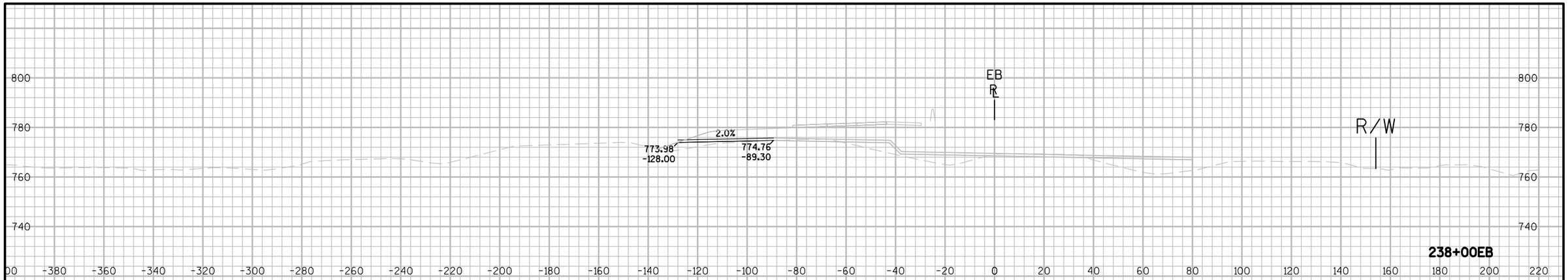
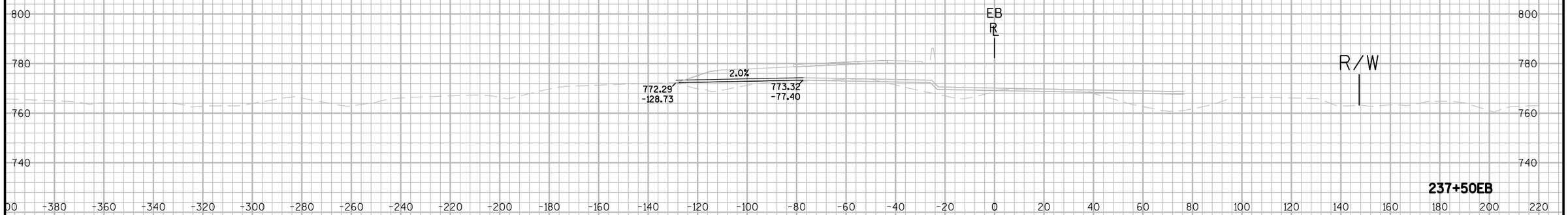
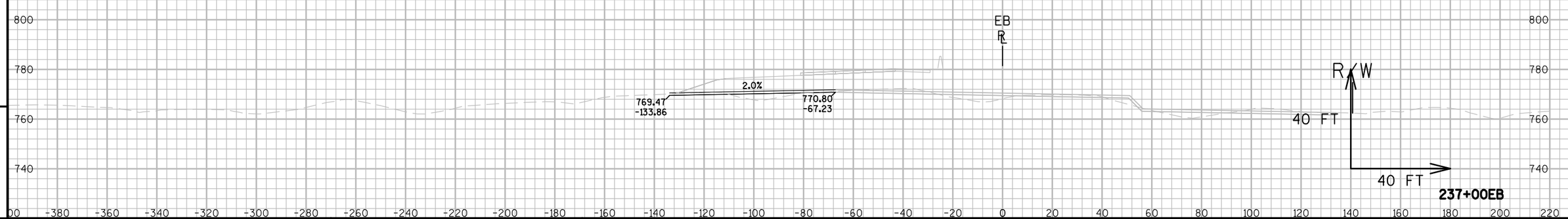
PROJECT NO: 1517-75-72	HWY: STH 441/USH 10	COUNTY: WINNEBAGO	CROSS SECTIONS: STRIP DRAINS-STAGE 2A	SHEET 701	E

FILE NAME : S:\PDS\C3D\WIS441\15177570_72_77_85\SHEETSPLAN\1517-75-72\090200-XS\NE-15177572-090601-XS-WD2A.DWG
LAYOUT NAME - 090606-XS-WD2A
PLOT DATE : 2/9/2017 3:39 PM
PLOT BY : VICKMAN, GARRETT T PLOT NAME :
PLOT SCALE : 1 IN:40 FT
WISDOT/CADDS SHEET 49







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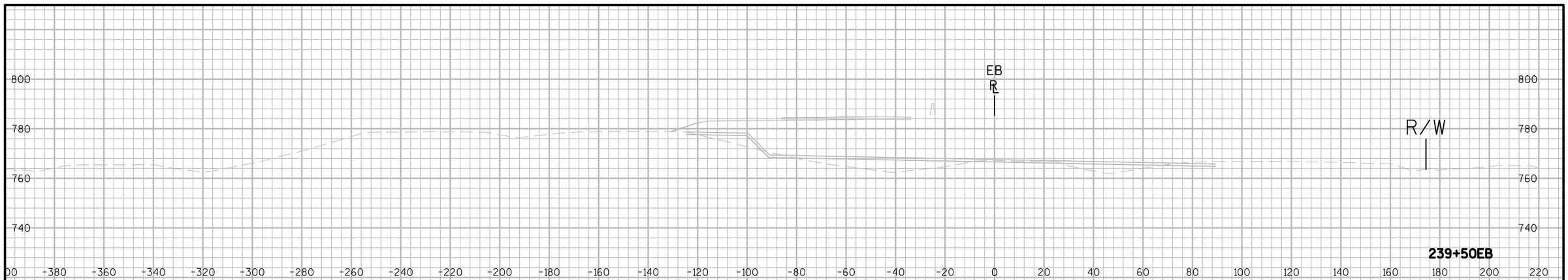
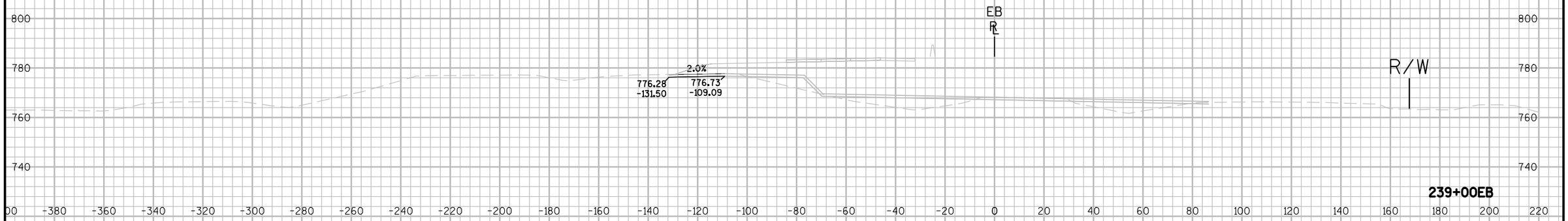
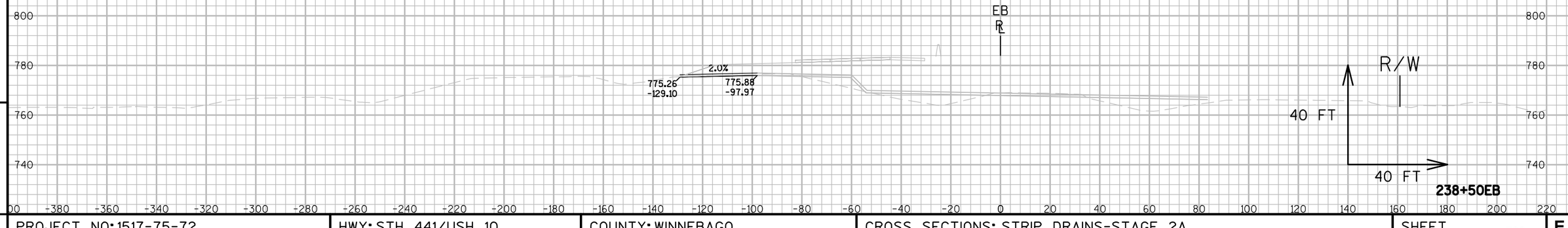
PROJECT NO: 1517-75-72	HWY: STH 441/USH 10	COUNTY: WINNEBAGO	CROSS SECTIONS: STRIP DRAINS-STAGE 2A	SHEET 702	E







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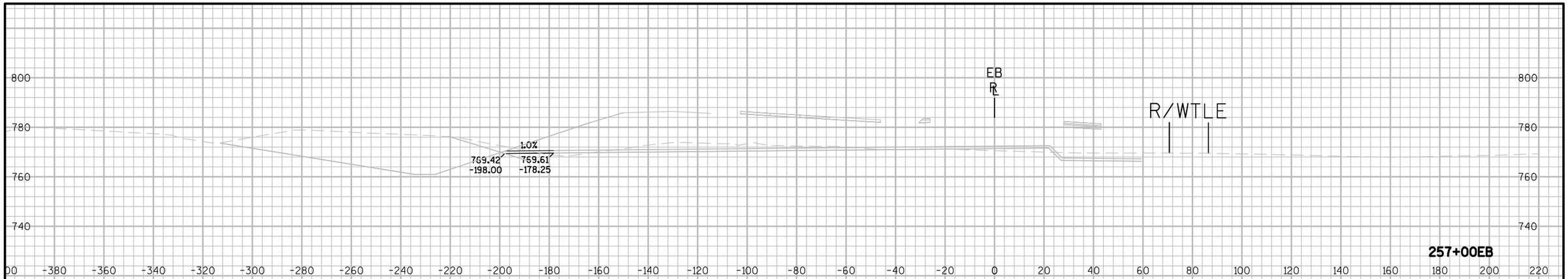
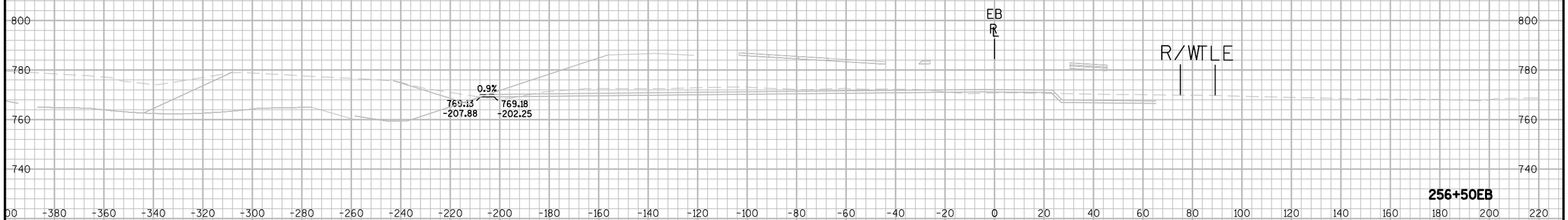
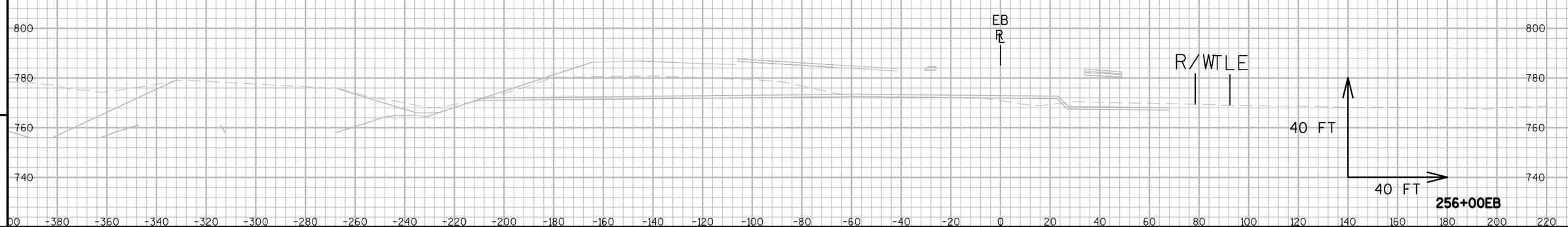
PROJECT NO: 1517-75-72	HWY: STH 441/USH 10	COUNTY: WINNEBAGO	CROSS SECTIONS: STRIP DRAINS-STAGE 2A	SHEET 703	E

FILE NAME : S:\PDS\C3D\WIS441\15177570_72_77_85\SHEETSPLAN\1517-75-72\090200-XS\NE-15177572-090601-XS-WD2A.DWG
LAYOUT NAME - 090608-XS-WD2A
PLOT DATE : 2/9/2017 3:40 PM
PLOT BY : VICKMAN, GARRETT T PLOT NAME :
PLOT SCALE : 1 IN:40 FT
WISDOT/CADDS SHEET 49







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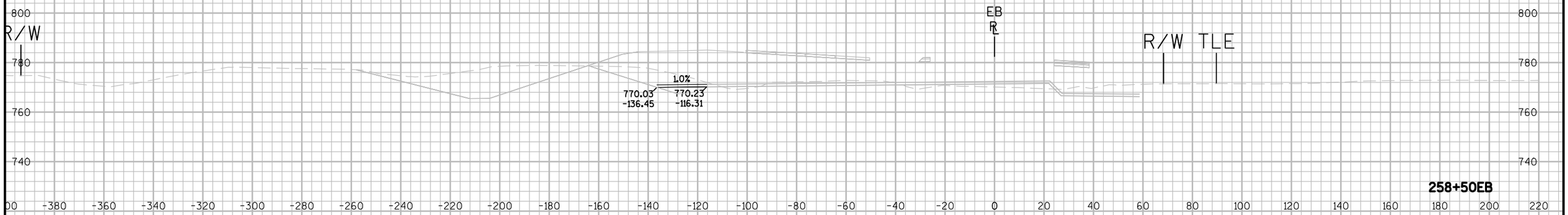
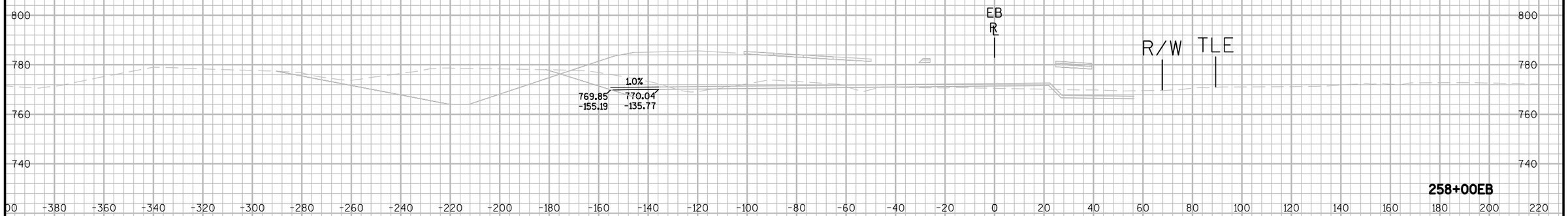
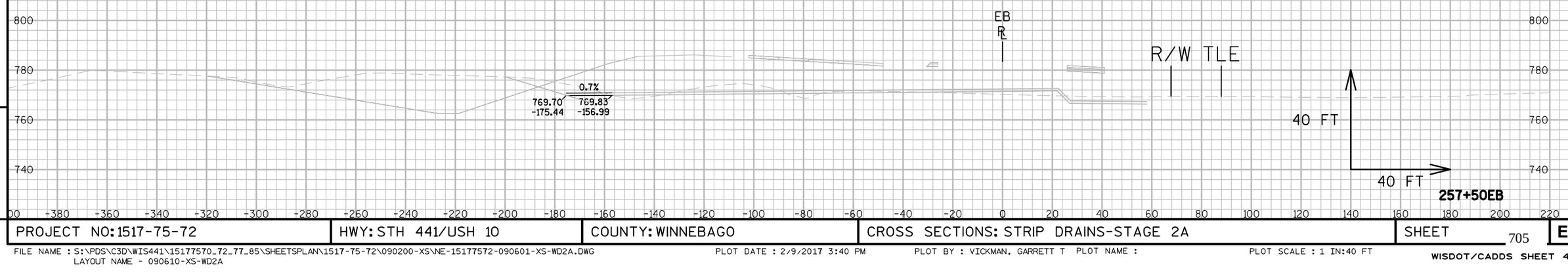
PROJECT NO: 1517-75-72	HWY: STH 441/USH 10	COUNTY: WINNEBAGO	CROSS SECTIONS: STRIP DRAINS-STAGE 2A	SHEET 704	E

FILE NAME : S:\PDS\C3D\WIS441\15177570_72_77_85\SHEETSPLAN\1517-75-72\090200-XS\NE-15177572-090601-XS-WD2A.DWG
LAYOUT NAME - 090609-XS-WD2A
PLOT DATE : 2/9/2017 3:40 PM
PLOT BY : VICKMAN, GARRETT T PLOT NAME :
PLOT SCALE : 1 IN:40 FT
WISDOT/CADDS SHEET 49







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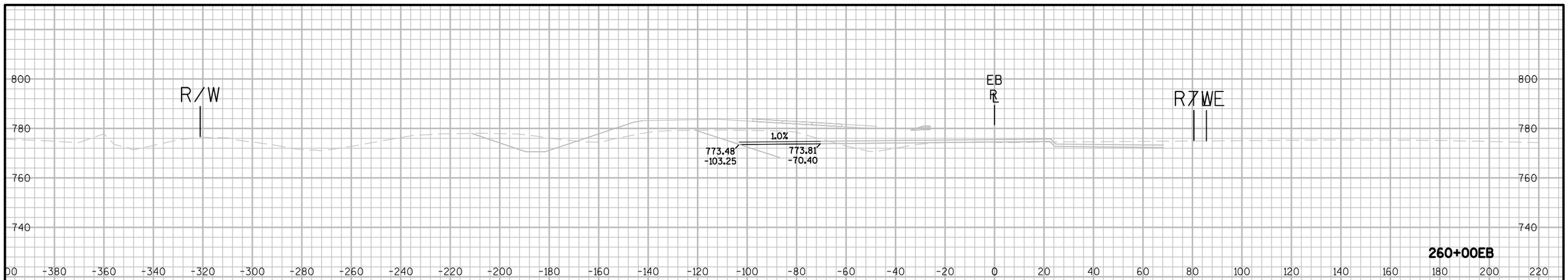
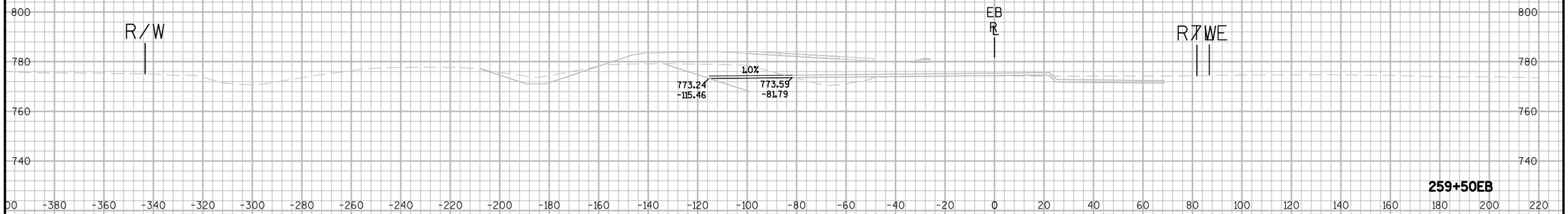
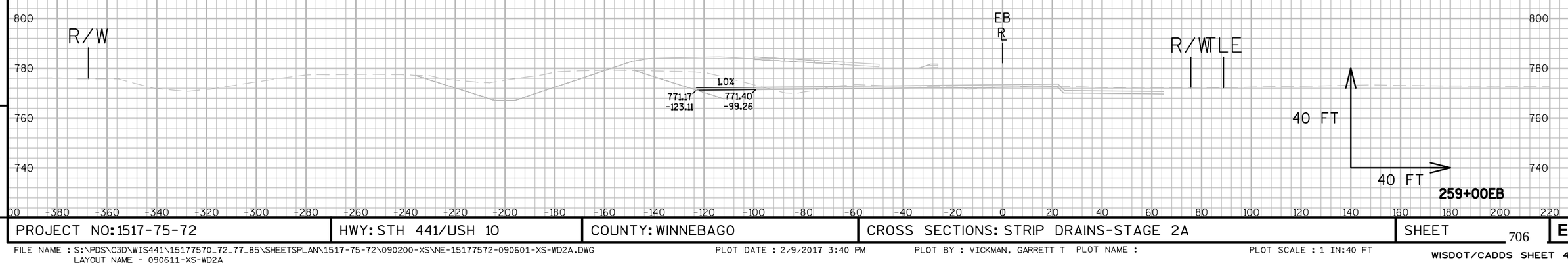
PROJECT NO: 1517-75-72	HWY: STH 441/USH 10	COUNTY: WINNEBAGO	CROSS SECTIONS: STRIP DRAINS-STAGE 2A	SHEET 705	E

FILE NAME : S:\PDS\C3D\WIS441\15177570_72_77_85\SHEETSPLAN\1517-75-72\090200-XS\NE-15177572-090601-XS-WD2A.DWG
LAYOUT NAME - 090610-XS-WD2A
PLOT DATE : 2/9/2017 3:40 PM
PLOT BY : VICKMAN, GARRETT T PLOT NAME :
PLOT SCALE : 1 IN:40 FT
WISDOT/CADDS SHEET 49







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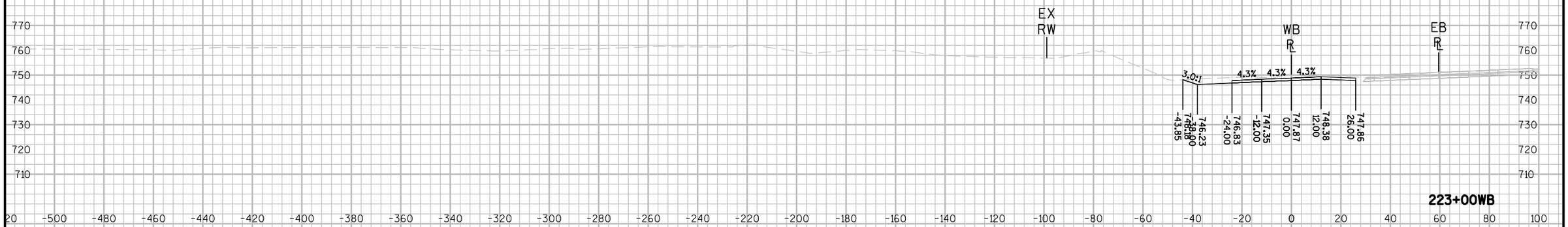
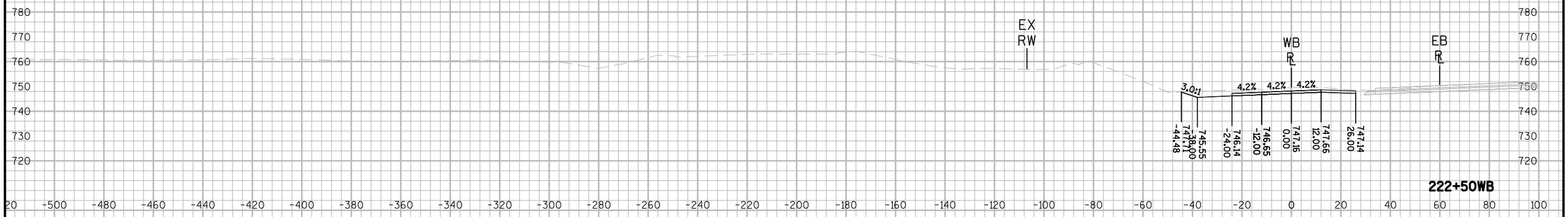
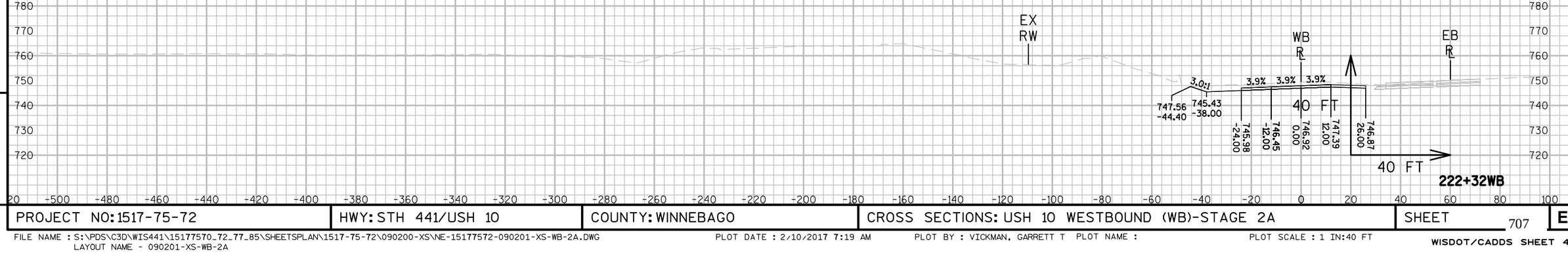
9

PROJECT NO: 1517-75-72	HWY: STH 441/USH 10	COUNTY: WINNEBAGO	CROSS SECTIONS: STRIP DRAINS-STAGE 2A	SHEET 706	E







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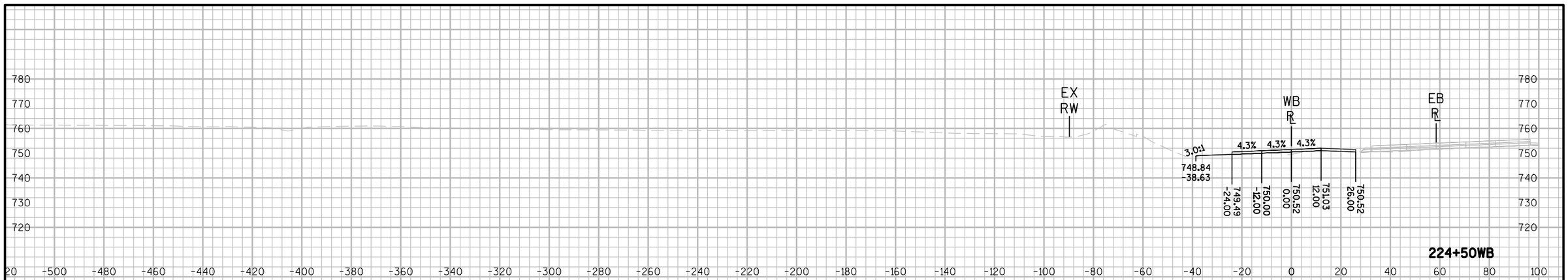
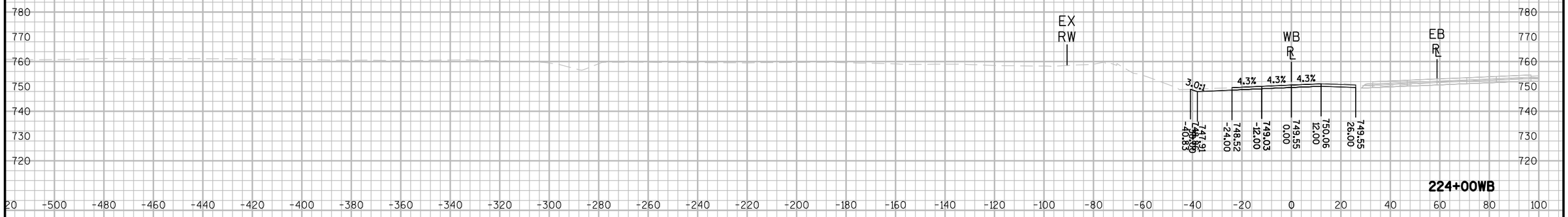
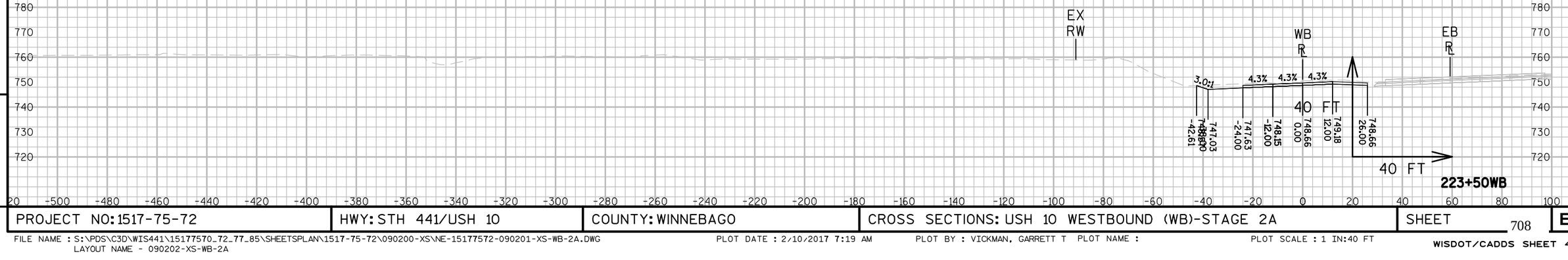
PROJECT NO: 1517-75-72	HWY: STH 441/USH 10	COUNTY: WINNEBAGO	CROSS SECTIONS: USH 10 WESTBOUND (WB)-STAGE 2A	SHEET 707	E

FILE NAME : S:\PDS\C3D\WIS441\15177570_72_77_85\SHEETSPLAN\1517-75-72\090200-XS\NE-15177572-090201-XS-WB-2A.DWG
LAYOUT NAME - 090201-XS-WB-2A
PLOT DATE : 2/10/2017 7:19 AM PLOT BY : VICKMAN, GARRETT T PLOT NAME : PLOT SCALE : 1 IN:40 FT
WISDOT/CADDS SHEET 49







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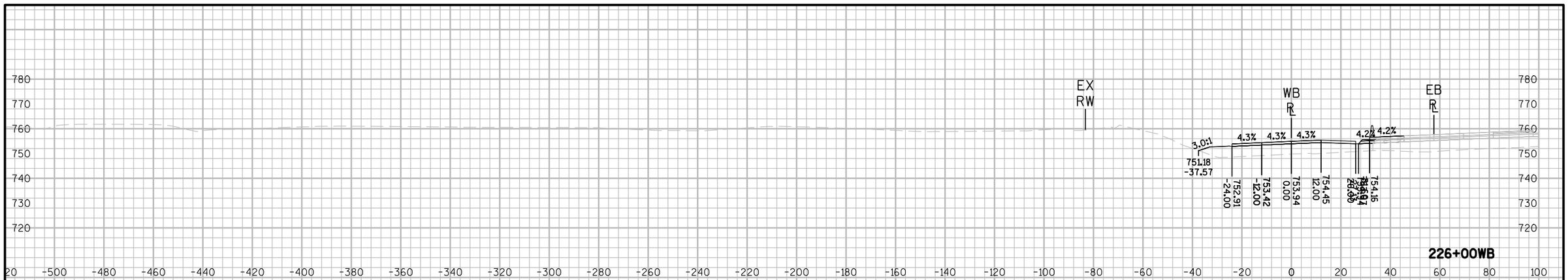
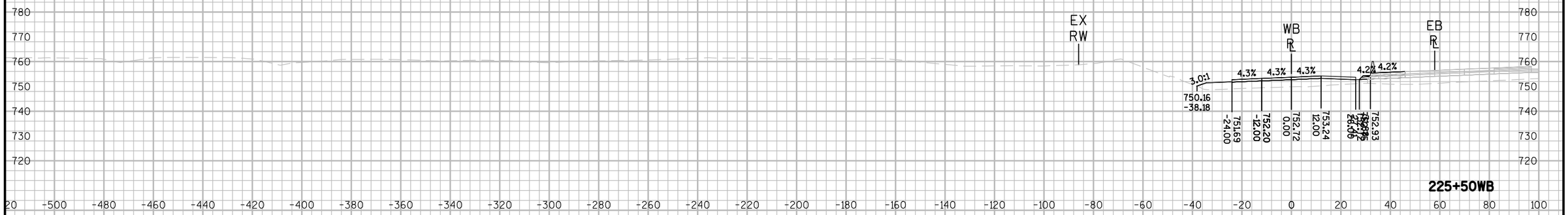
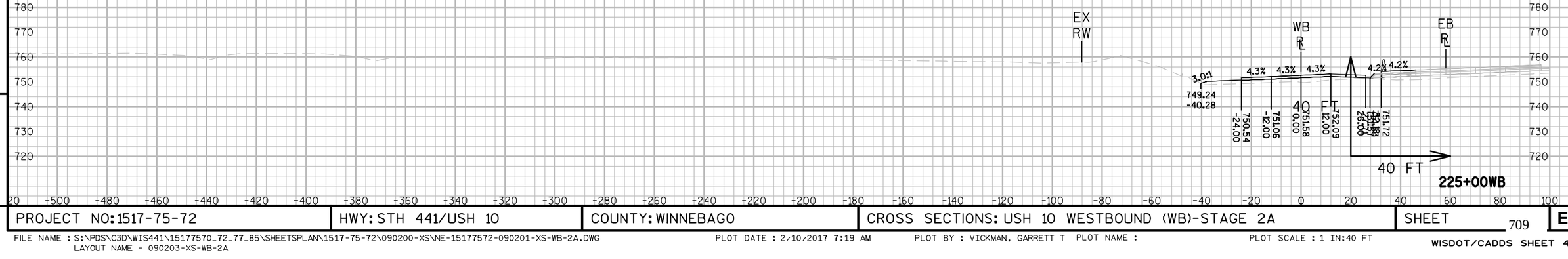
PROJECT NO: 1517-75-72	HWY: STH 441/USH 10	COUNTY: WINNEBAGO	CROSS SECTIONS: USH 10 WESTBOUND (WB)-STAGE 2A	SHEET 708	E

FILE NAME : S:\PDS\C3D\WIS441\15177570_72_77_85\SHEETSPLAN\1517-75-72\090200-XS\NE-15177572-090201-XS-WB-2A.DWG
LAYOUT NAME - 090202-XS-WB-2A
PLOT DATE : 2/10/2017 7:19 AM
PLOT BY : VICKMAN, GARRETT T
PLOT NAME :
PLOT SCALE : 1 IN:40 FT







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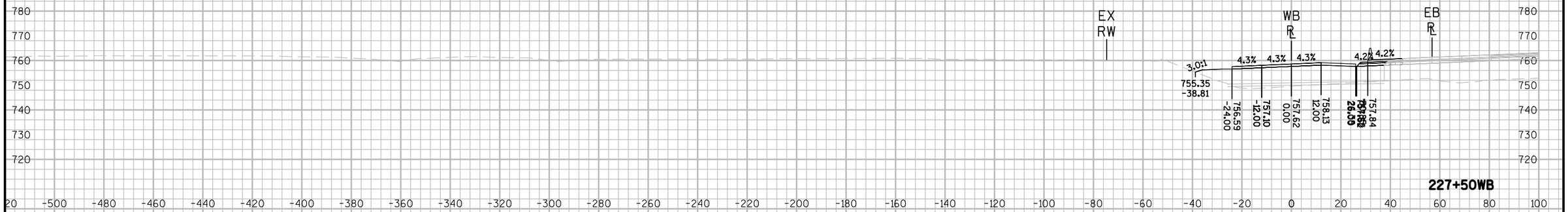
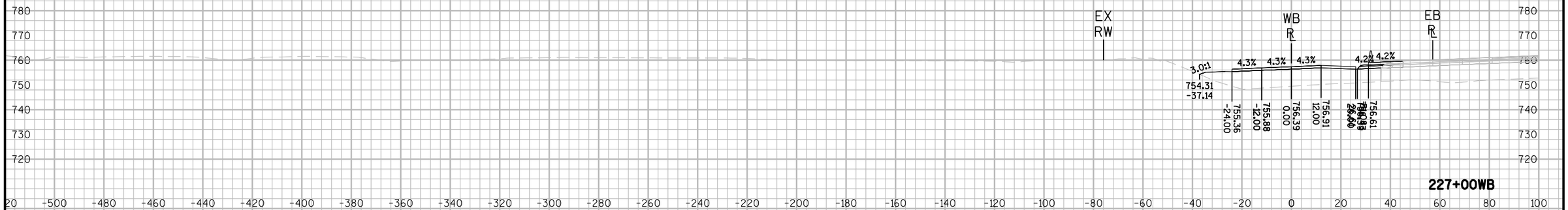
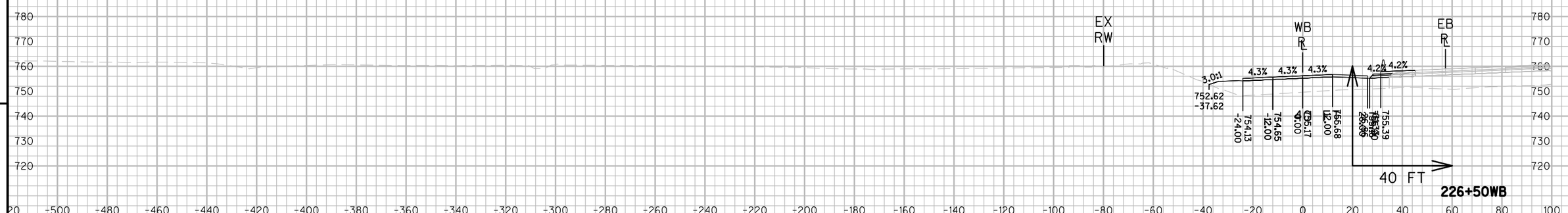
PROJECT NO: 1517-75-72	HWY: STH 441/USH 10	COUNTY: WINNEBAGO	CROSS SECTIONS: USH 10 WESTBOUND (WB)-STAGE 2A	SHEET 709	E

FILE NAME : S:\PDS\C3D\WIS441\15177570_72_77_85\SHEETSPLAN\1517-75-72\090200-XS\NE-15177572-090201-XS-WB-2A.DWG
LAYOUT NAME - 090203-XS-WB-2A
PLOT DATE : 2/10/2017 7:19 AM PLOT BY : VICKMAN, GARRETT T PLOT NAME : PLOT SCALE : 1 IN:40 FT
WISDOT/CADDS SHEET 49







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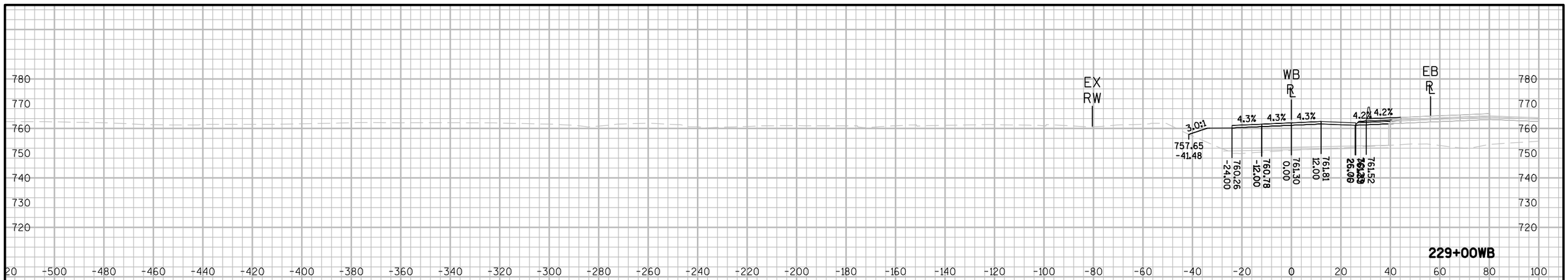
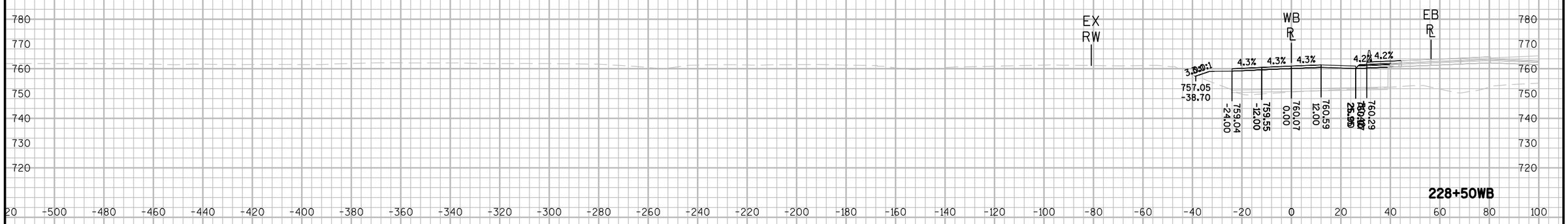
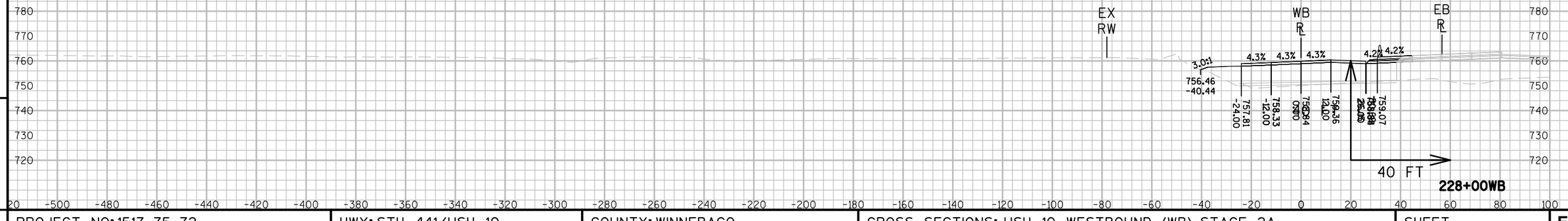
PROJECT NO: 1517-75-72	HWY: STH 441/USH 10	COUNTY: WINNEBAGO	CROSS SECTIONS: USH 10 WESTBOUND (WB)-STAGE 2A	SHEET 710	E

FILE NAME : S:\PDS\C3D\WIS441\15177570_72_77_85\SHEETSPLAN\1517-75-72\090200-XS\NE-15177572-090201-XS-WB-2A.DWG
LAYOUT NAME - 090204-XS-WB-2A
PLOT DATE : 2/10/2017 7:20 AM PLOT BY : VICKMAN, GARRETT T PLOT NAME : PLOT SCALE : 1 IN:40 FT
WISDOT/CADDS SHEET 49







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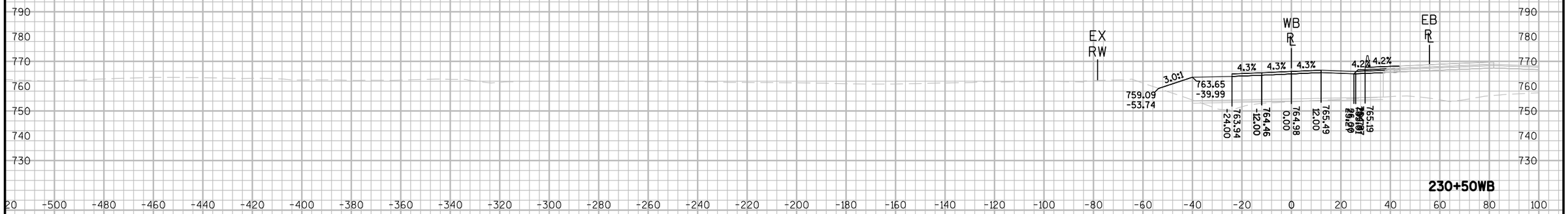
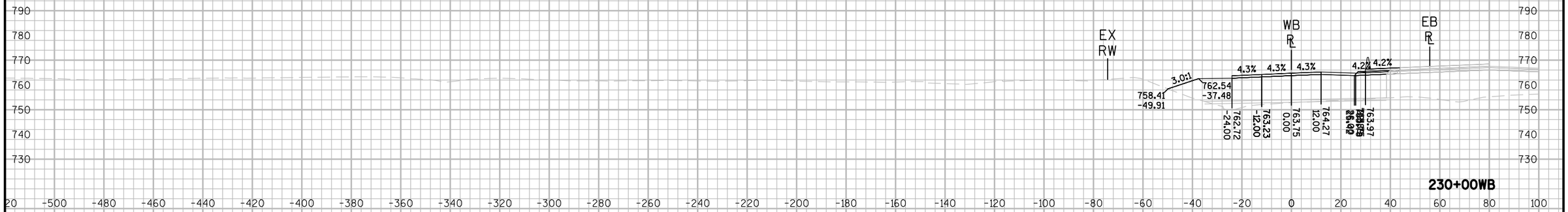
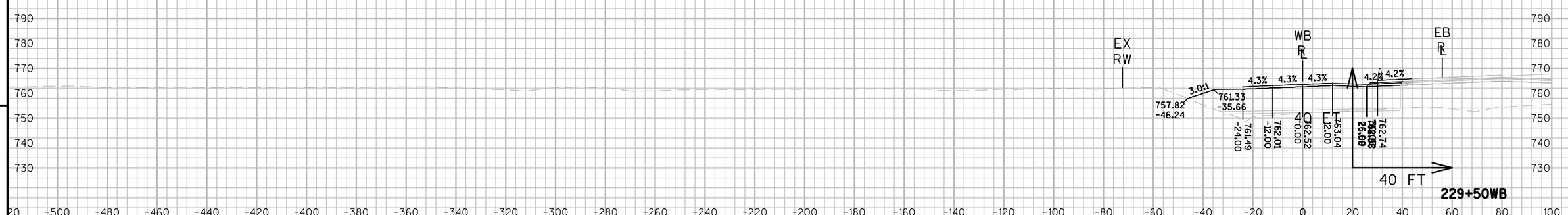
PROJECT NO: 1517-75-72	HWY: STH 441/USH 10	COUNTY: WINNEBAGO	CROSS SECTIONS: USH 10 WESTBOUND (WB)-STAGE 2A	SHEET 711	E

FILE NAME : S:\PDS\C3D\WIS441\15177570_72_77_85\SHEETSPLAN\1517-75-72\090200-XS\NE-15177572-090201-XS-WB-2A.DWG
LAYOUT NAME - 090205-XS-WB-2A
PLOT DATE : 2/10/2017 7:20 AM PLOT BY : VICKMAN, GARRETT T PLOT NAME : PLOT SCALE : 1 IN:40 FT







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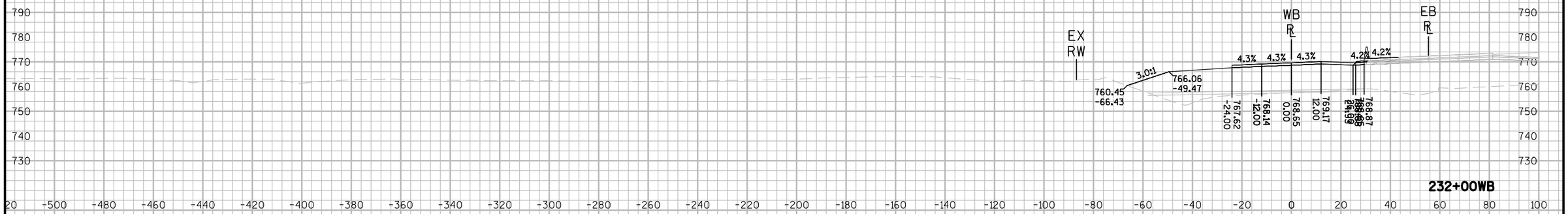
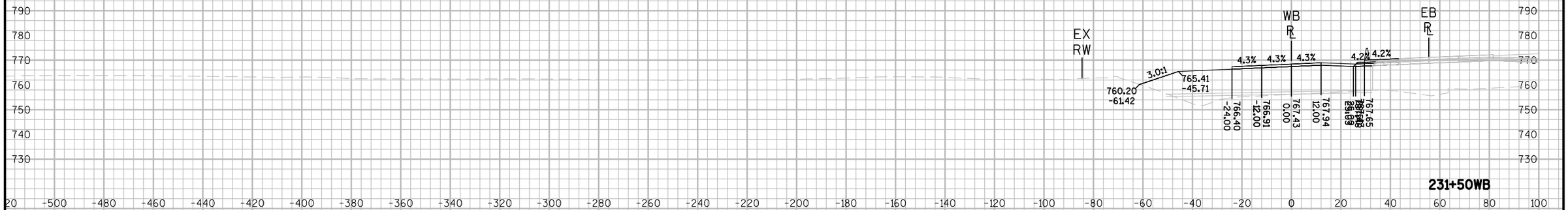
PROJECT NO: 1517-75-72	HWY: STH 441/USH 10	COUNTY: WINNEBAGO	CROSS SECTIONS: USH 10 WESTBOUND (WB)-STAGE 2A	SHEET 712	E

FILE NAME : S:\PDS\C3D\WIS441\15177570_72_77_85\SHEETSPLAN\1517-75-72\090200-XS\NE-15177572-090201-XS-WB-2A.DWG
LAYOUT NAME - 090206-XS-WB-2A
PLOT DATE : 2/10/2017 7:20 AM PLOT BY : VICKMAN, GARRETT T PLOT NAME : PLOT SCALE : 1 IN:40 FT
WISDOT/CADDS SHEET 49





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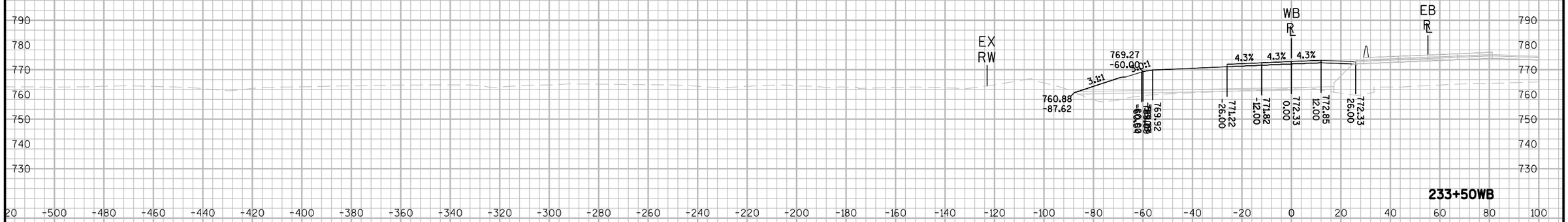
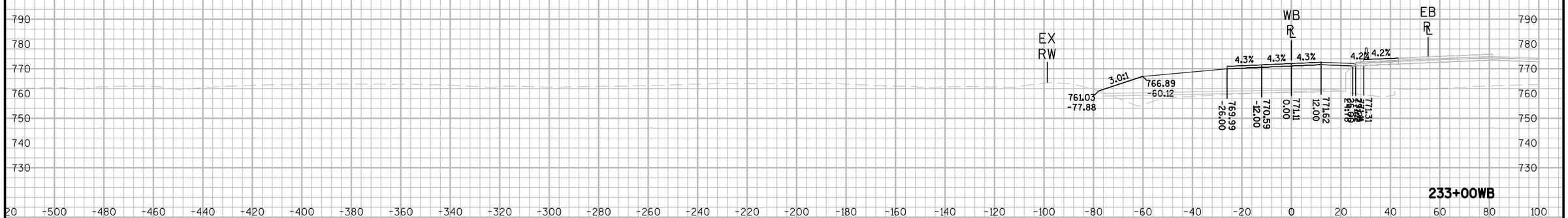
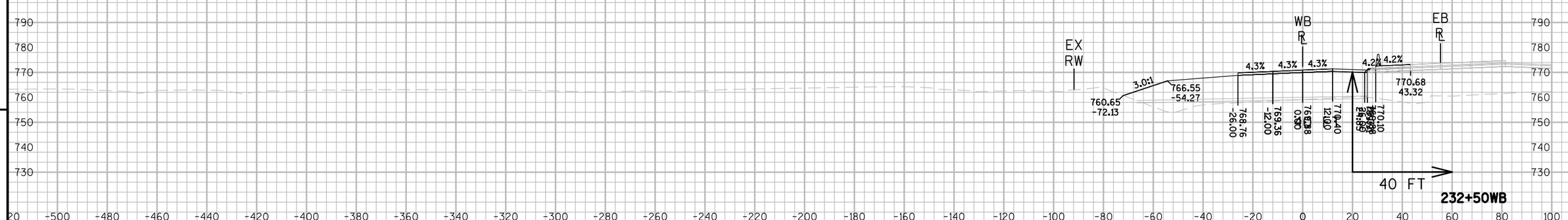
PROJECT NO: 1517-75-72	HWY: STH 441/USH 10	COUNTY: WINNEBAGO	CROSS SECTIONS: USH 10 WESTBOUND (WB)-STAGE 2A	SHEET 713	E

FILE NAME : S:\PDS\C3D\WIS441\15177570_72_77_85\SHEETSPLAN\1517-75-72\090200-XS\NE-15177572-090201-XS-WB-2A.DWG
LAYOUT NAME - 090207-XS-WB-2A

PLOT DATE : 2/10/2017 7:20 AM PLOT BY : VICKMAN, GARRETT T PLOT NAME : PLOT SCALE : 1 IN:40 FT





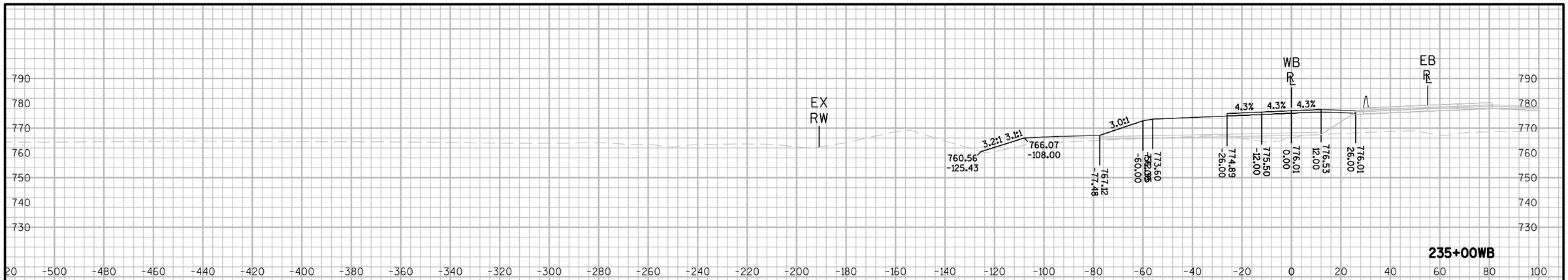


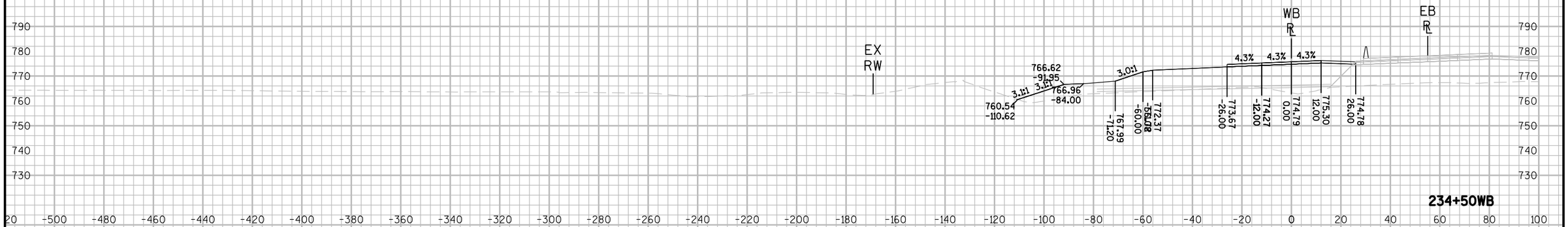
PROJECT NO: 1517-75-72	HWY: STH 441/USH 10	COUNTY: WINNEBAGO	CROSS SECTIONS: USH 10 WESTBOUND (WB)-STAGE 2A	SHEET 714 E

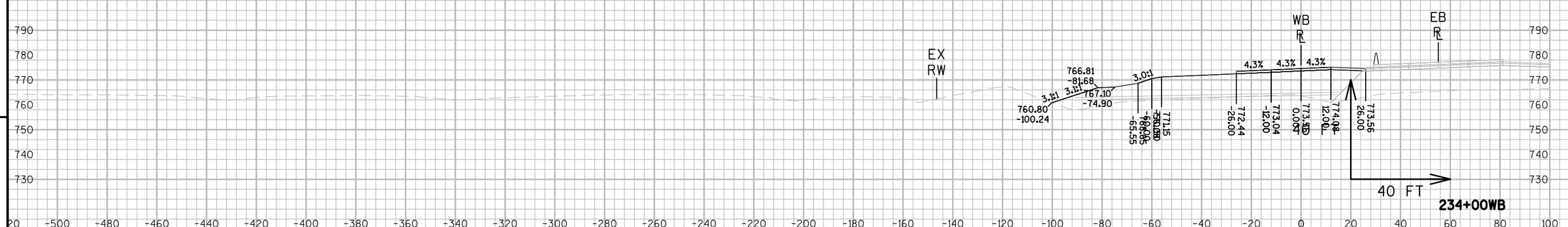
FILE NAME : S:\PDS\C3D\WIS441\15177570_T2_77_85\SHEETSPLAN\1517-75-72\090200-XS\NE-15177572-090201-XS-WB-2A.DWG
LAYOUT NAME - 090208-XS-WB-2A

PLOT DATE : 2/10/2017 7:20 AM PLOT BY : VICKMAN, GARRETT T PLOT NAME : PLOT SCALE : 1 IN:40 FT

WISDOT/CADDS SHEET 49







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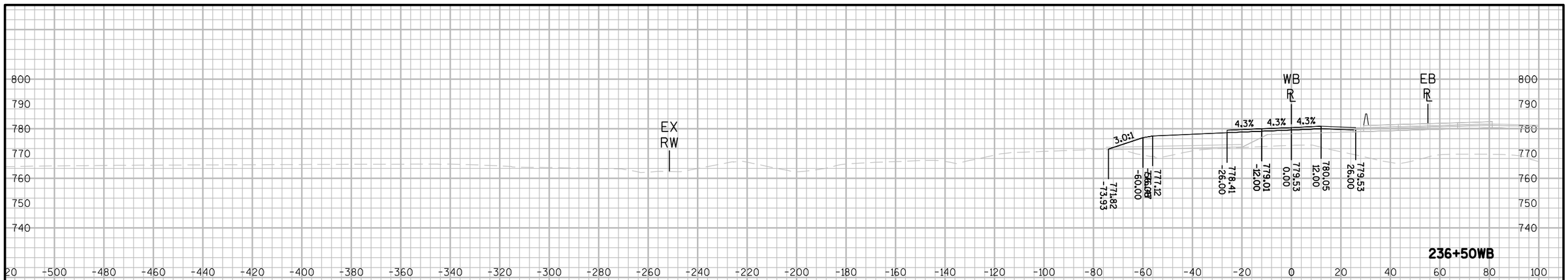
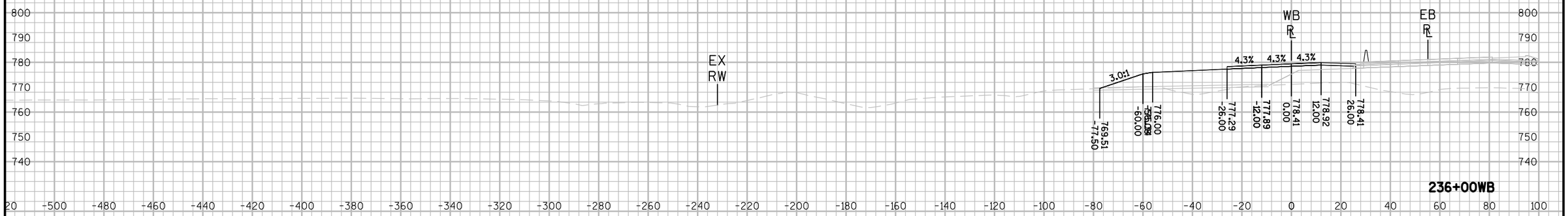
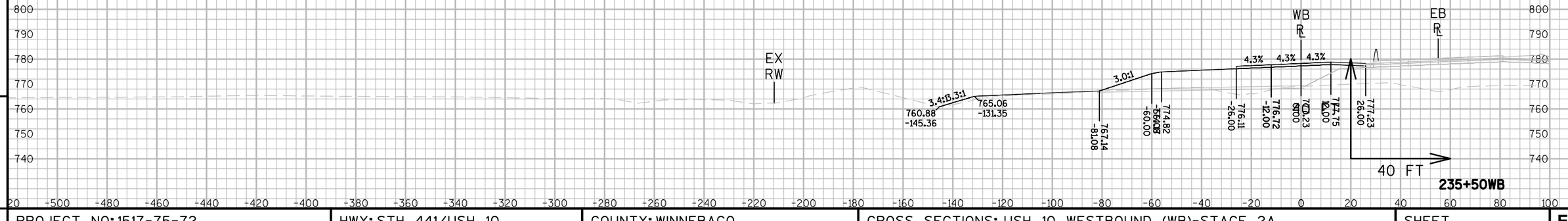
PROJECT NO: 1517-75-72	HWY: STH 441/USH 10	COUNTY: WINNEBAGO	CROSS SECTIONS: USH 10 WESTBOUND (WB)-STAGE 2A	SHEET 715	E

FILE NAME : S:\PDS\C3D\WIS441\15177570_72_77_85\SHEETSPLAN\1517-75-72\090200-XS\NE-15177572-090201-XS-WB-2A.DWG
LAYOUT NAME - 090209-XS-WB-2A
PLOT DATE : 2/10/2017 7:21 AM
PLOT BY : VICKMAN, GARRETT T PLOT NAME :
PLOT SCALE : 1 IN:40 FT
WISDOT/CADDS SHEET 49







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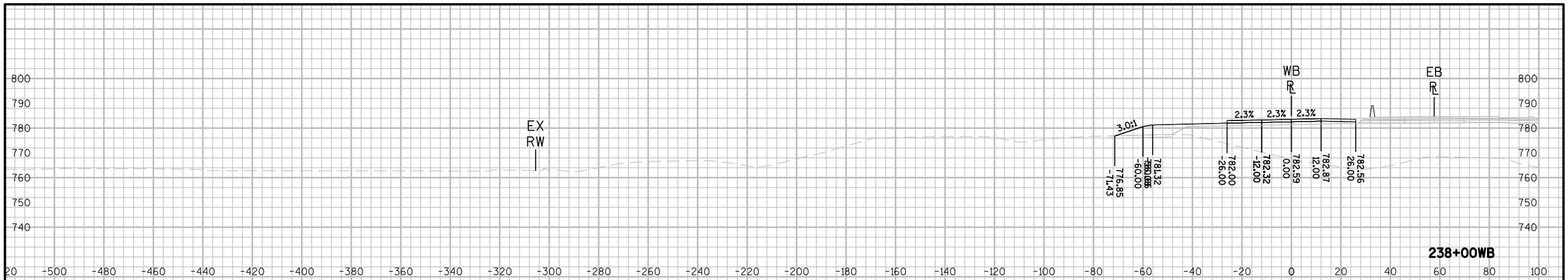
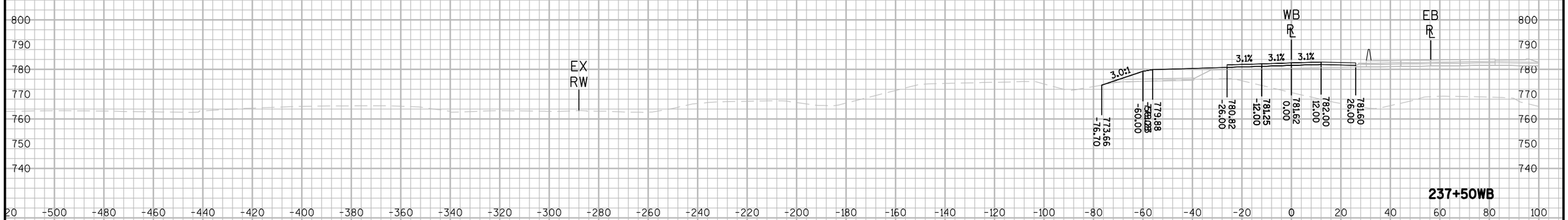
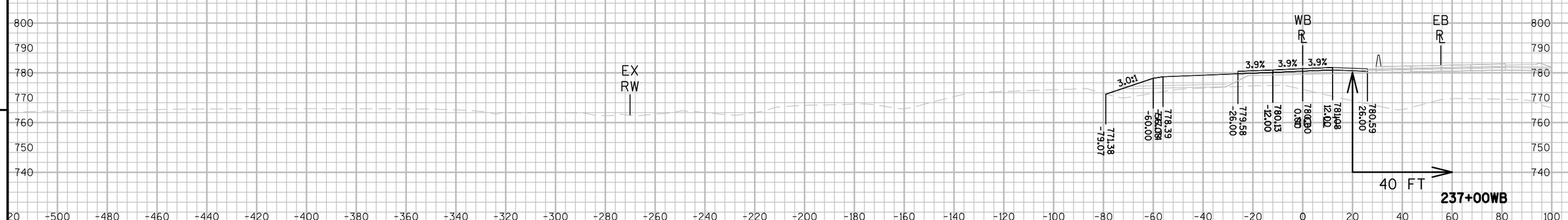
PROJECT NO: 1517-75-72	HWY: STH 441/USH 10	COUNTY: WINNEBAGO	CROSS SECTIONS: USH 10 WESTBOUND (WB)-STAGE 2A	SHEET 716	E

FILE NAME : S:\PDS\C3D\WIS441\15177570_72_77_85\SHEETSPLAN\1517-75-72\090200-XS\NE-15177572-090201-XS-WB-2A.DWG
LAYOUT NAME - 090210-XS-WB-2A
PLOT DATE : 2/10/2017 7:21 AM
PLOT BY : VICKMAN, GARRETT T
PLOT NAME :
PLOT SCALE : 1 IN:40 FT







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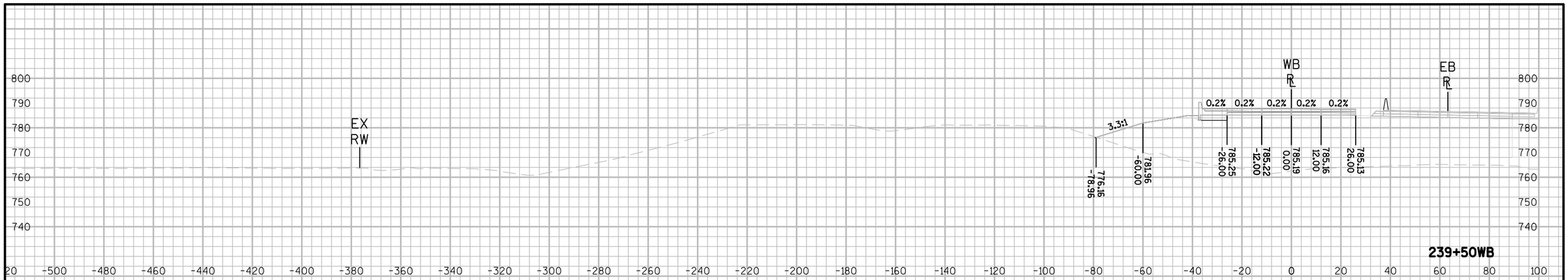
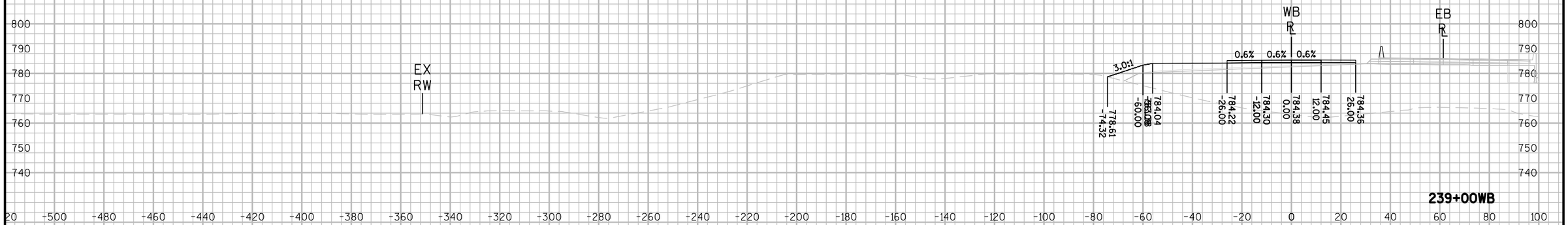
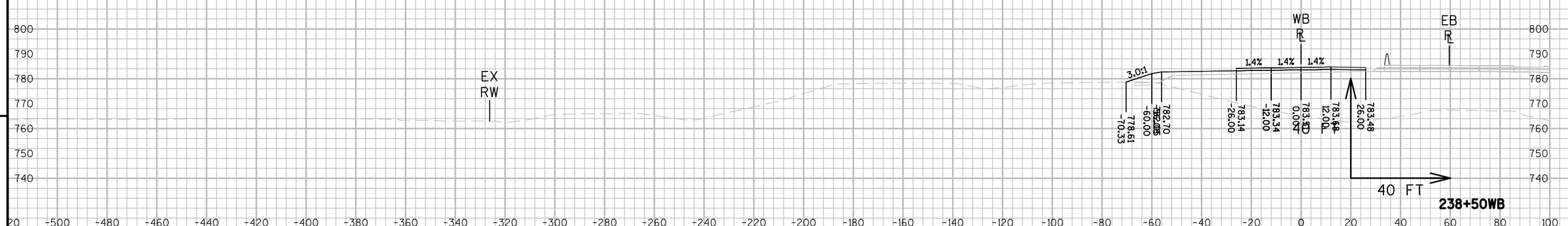
PROJECT NO: 1517-75-72	HWY: STH 441/USH 10	COUNTY: WINNEBAGO	CROSS SECTIONS: USH 10 WESTBOUND (WB)-STAGE 2A	SHEET 717	E





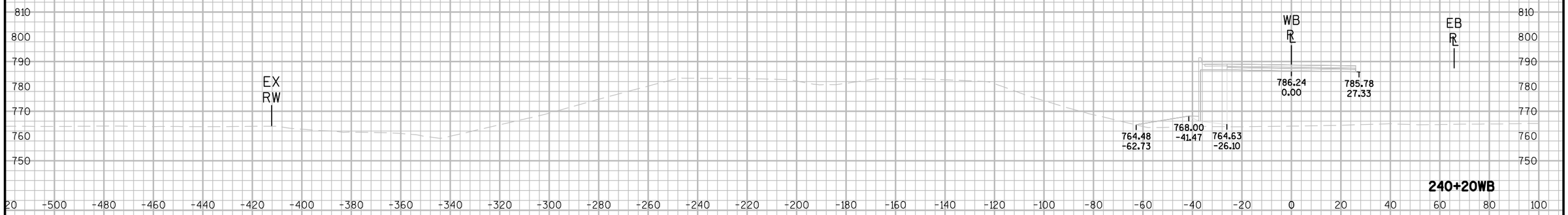


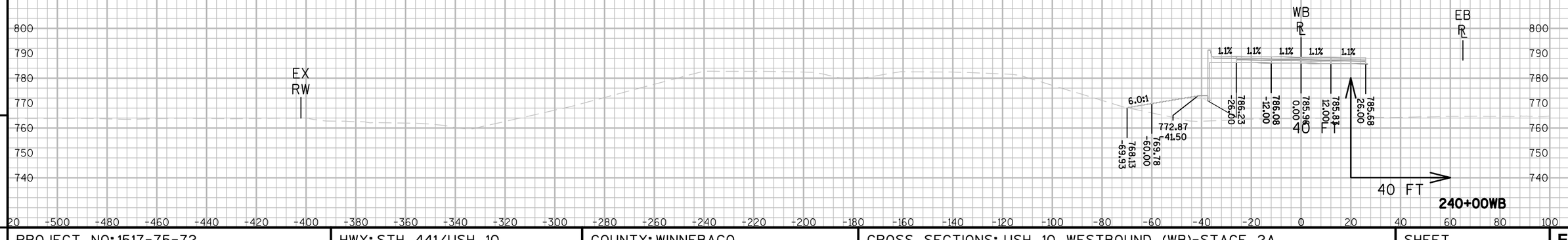
PROJECT NO: 1517-75-72	HWY: STH 441/USH 10	COUNTY: WINNEBAGO	CROSS SECTIONS: USH 10 WESTBOUND (WB)-STAGE 2A	SHEET 718	E

FILE NAME : S:\PDS\C3D\WIS441\15177570_T2_77_85\SHEETSPLAN\1517-75-72\090200-XS\NE-15177572-090201-XS-WB-2A.DWG
LAYOUT NAME - 090212-XS-WB-2A

PLOT DATE : 2/10/2017 7:21 AM PLOT BY : VICKMAN, GARRETT T PLOT NAME : PLOT SCALE : 1 IN:40 FT

WISDOT/CADDS SHEET 49





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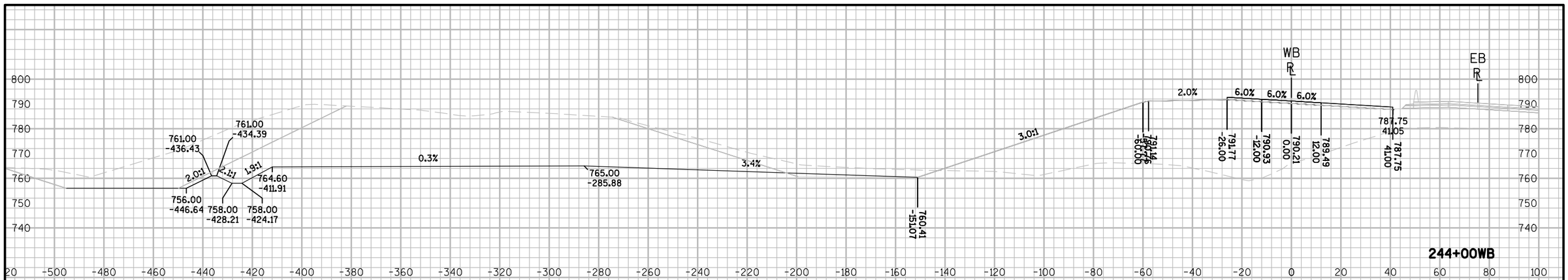
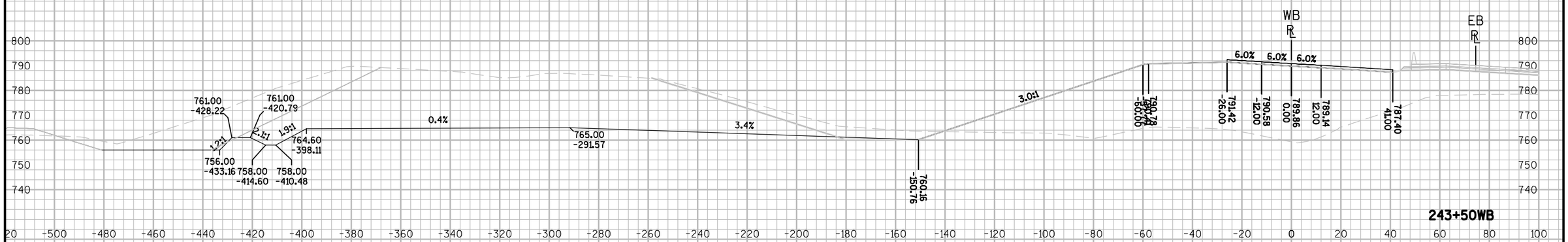
9

PROJECT NO: 1517-75-72	HWY: STH 441/USH 10	COUNTY: WINNEBAGO	CROSS SECTIONS: USH 10 WESTBOUND (WB)-STAGE 2A	SHEET 719	E

FILE NAME : S:\PDS\C3D\WIS441\15177570_72_77_85\SHEETSPLAN\1517-75-72\090200-XS\NE-15177572-090201-XS-WB-2A.DWG
LAYOUT NAME - 090213-XS-WB-2A
PLOT DATE : 2/10/2017 7:22 AM PLOT BY : VICKMAN, GARRETT T PLOT NAME : PLOT SCALE : 1 IN:40 FT





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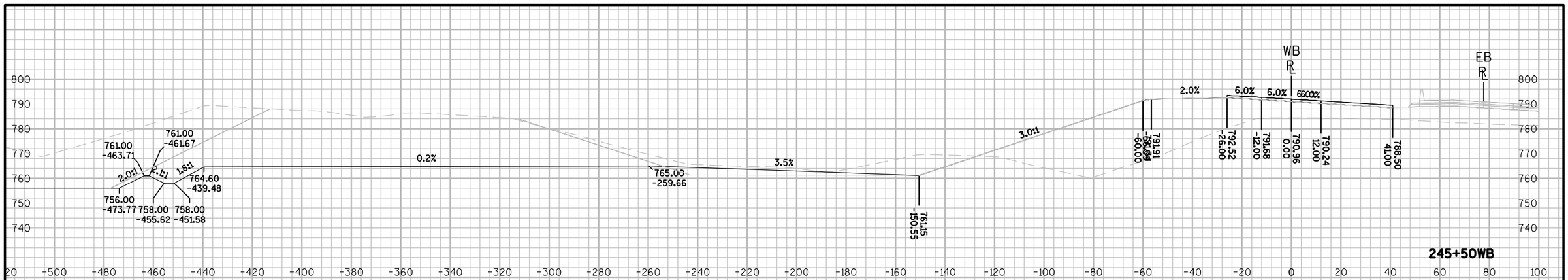
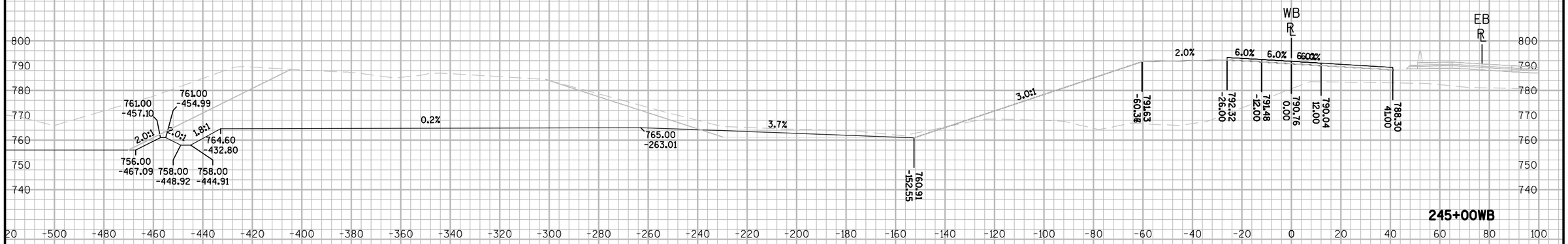
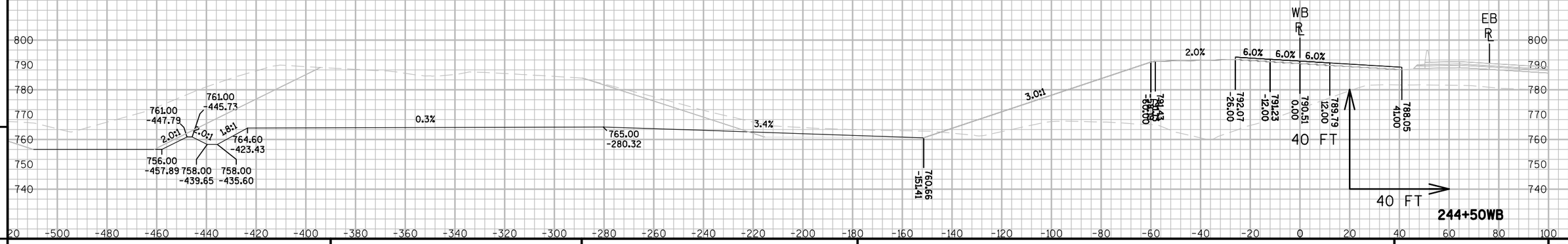
9

PROJECT NO: 1517-75-72	HWY: STH 441/USH 10	COUNTY: WINNEBAGO	CROSS SECTIONS: USH 10 WESTBOUND (WB)-STAGE 2A	SHEET 720	E

FILE NAME : S:\PDS\C3D\WIS441\15177570_72_77_85\SHEETSPLAN\1517-75-72\090200-XS\NE-15177572-090201-XS-WB-2A.DWG
LAYOUT NAME - 090214-XS-WB-2A
PLOT DATE : 2/10/2017 7:22 AM PLOT BY : VICKMAN, GARRETT T PLOT NAME : PLOT SCALE : 1 IN:40 FT







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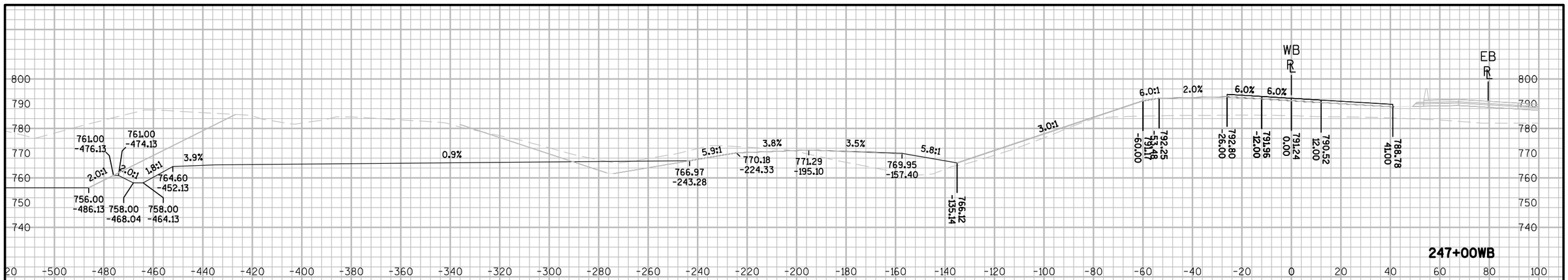
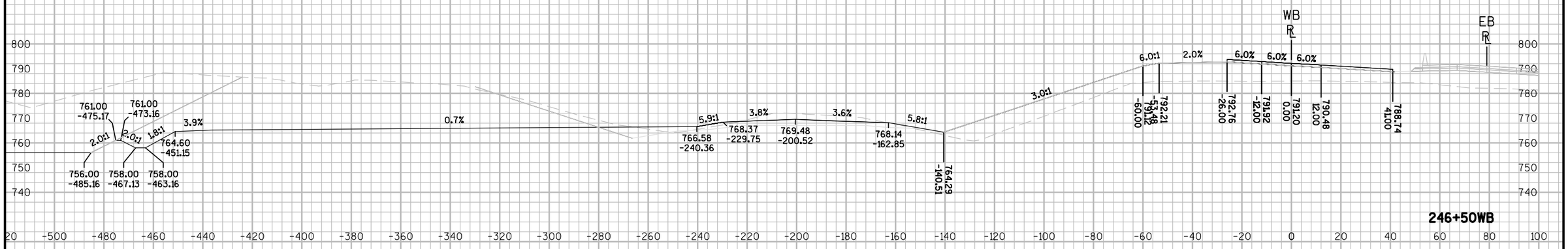
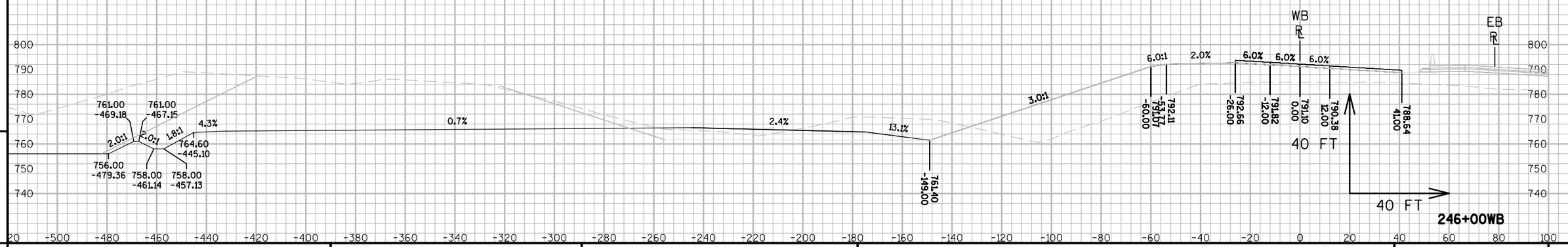
PROJECT NO: 1517-75-72	HWY: STH 441/USH 10	COUNTY: WINNEBAGO	CROSS SECTIONS: USH 10 WESTBOUND (WB)-STAGE 2A	SHEET 721	E

FILE NAME : S:\PDS\C3D\WIS441\15177570_72_77_85\SHEETSPLAN\1517-75-72\090200-XS\NE-15177572-090201-XS-WB-2A.DWG
LAYOUT NAME - 090215-XS-WB-2A
PLOT DATE : 2/10/2017 7:22 AM PLOT BY : VICKMAN, GARRETT T PLOT NAME : PLOT SCALE : 1 IN:40 FT
WISDOT/CADDS SHEET 49







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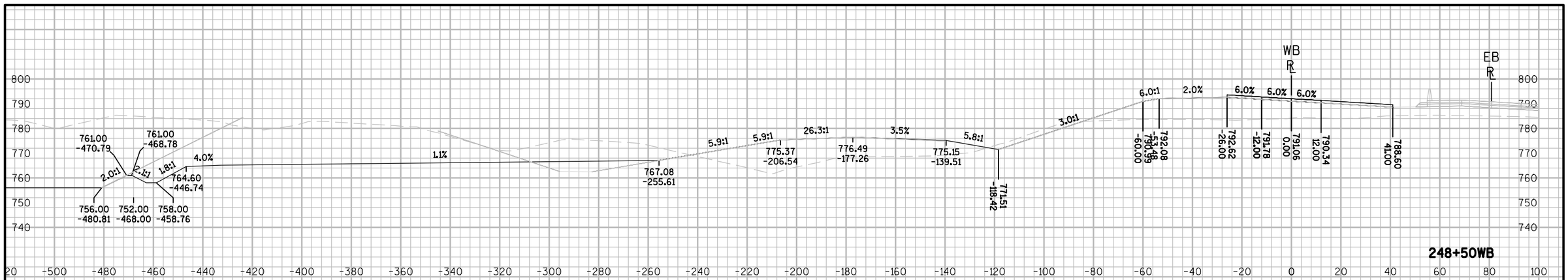
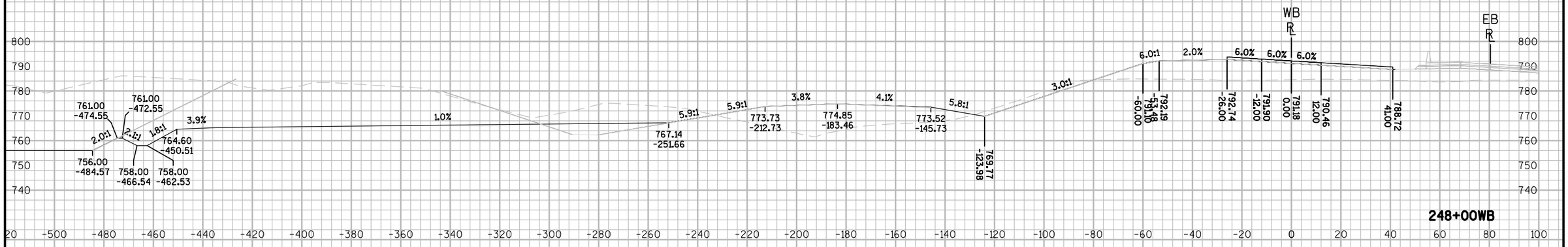
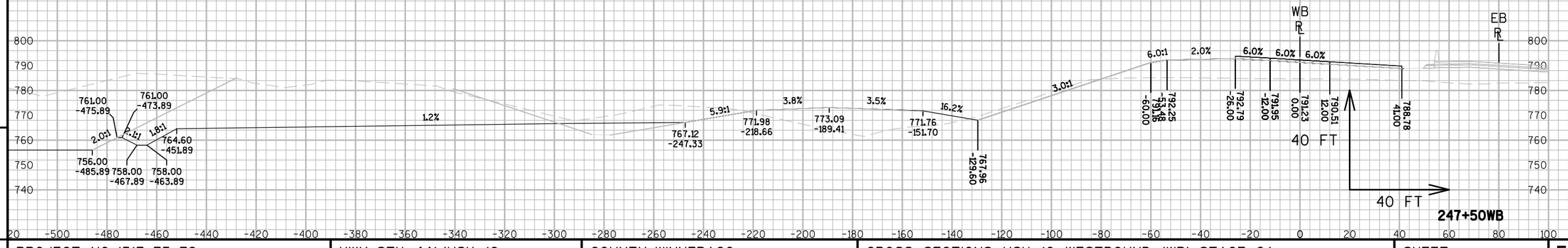
PROJECT NO: 1517-75-72	HWY: STH 441/USH 10	COUNTY: WINNEBAGO	CROSS SECTIONS: USH 10 WESTBOUND (WB)-STAGE 2A	SHEET 722	E







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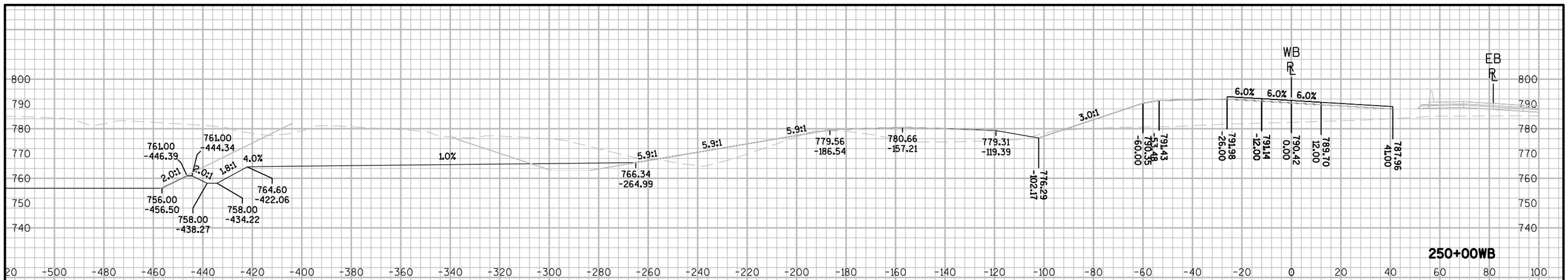
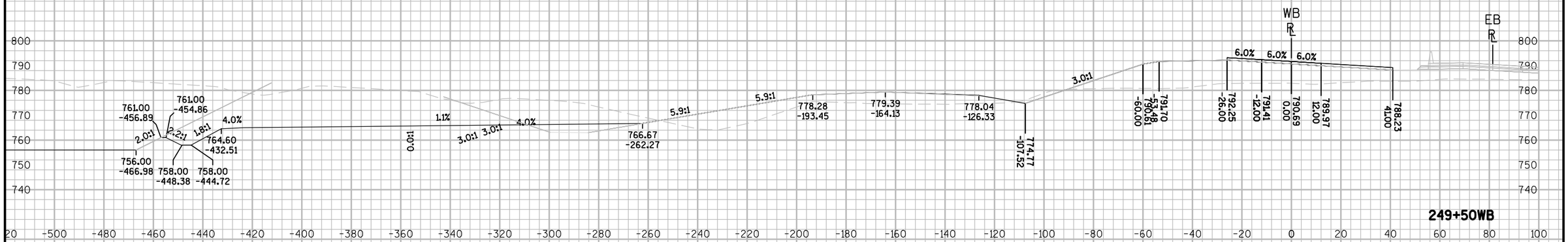
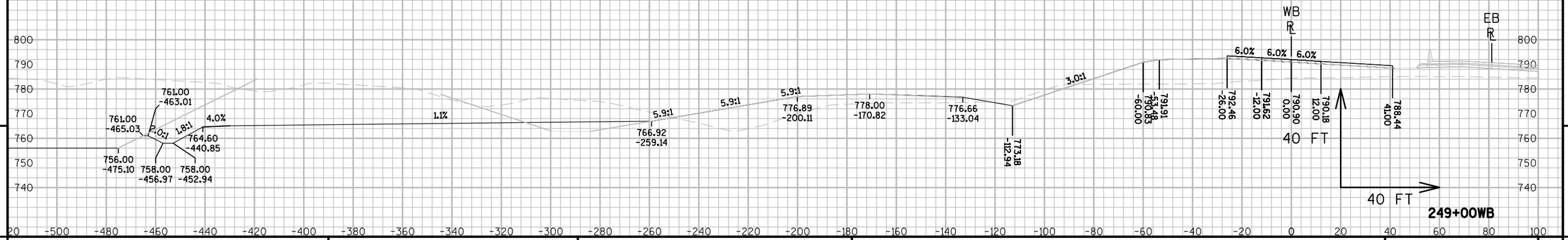
PROJECT NO: 1517-75-72	HWY: STH 441/USH 10	COUNTY: WINNEBAGO	CROSS SECTIONS: USH 10 WESTBOUND (WB)-STAGE 2A	SHEET 723	E

FILE NAME : S:\PDS\C3D\WIS441\15177570_72_77_85\SHEETSPLAN\1517-75-72\090200-XS\NE-15177572-090201-XS-WB-2A.DWG
LAYOUT NAME - 090217-XS-WB-2A
PLOT DATE : 2/10/2017 7:23 AM
PLOT BY : VICKMAN, GARRETT T
PLOT NAME :
PLOT SCALE : 1 IN:40 FT







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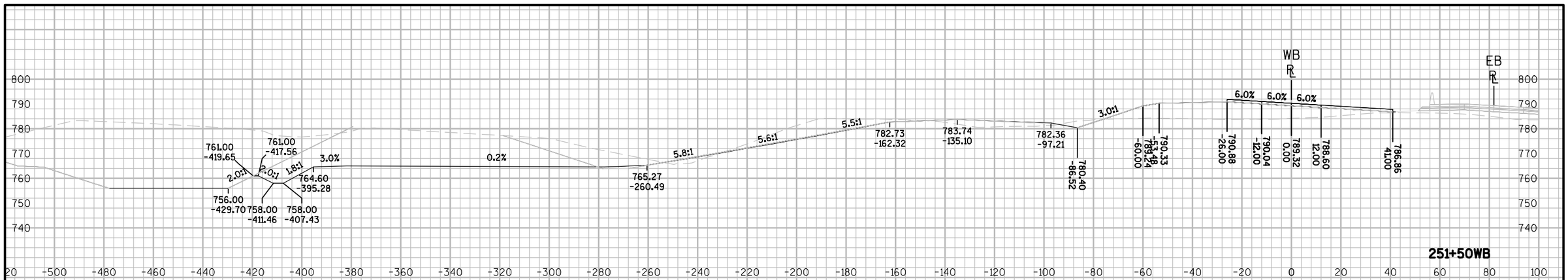
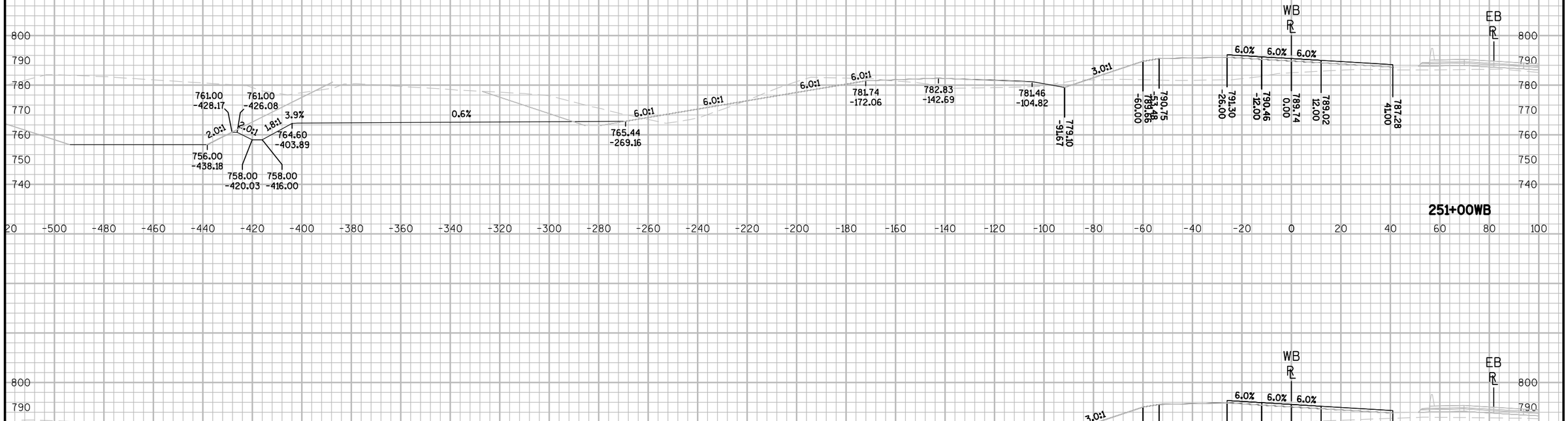
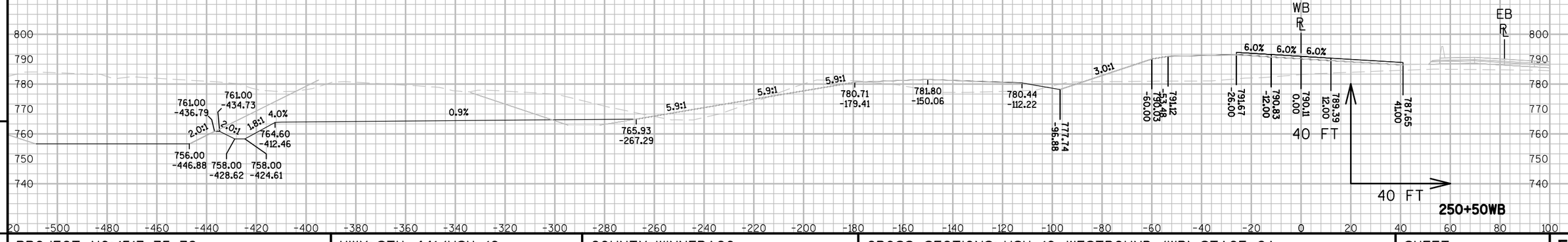
PROJECT NO: 1517-75-72	HWY: STH 441/USH 10	COUNTY: WINNEBAGO	CROSS SECTIONS: USH 10 WESTBOUND (WB)-STAGE 2A	SHEET 724	E

FILE NAME : S:\PDS\C3D\WIS441\15177570_72_77_85\SHEETSPLAN\1517-75-72\090200-XS\NE-15177572-090201-XS-WB-2A.DWG
LAYOUT NAME - 090218-XS-WB-2A
PLOT DATE : 2/10/2017 7:23 AM PLOT BY : VICKMAN, GARRETT T PLOT NAME : PLOT SCALE : 1 IN:40 FT
WISDOT/CADDS SHEET 49







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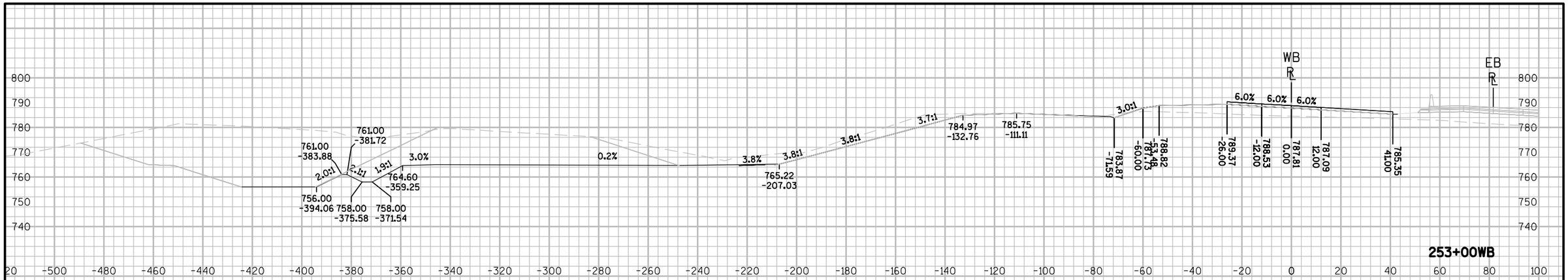
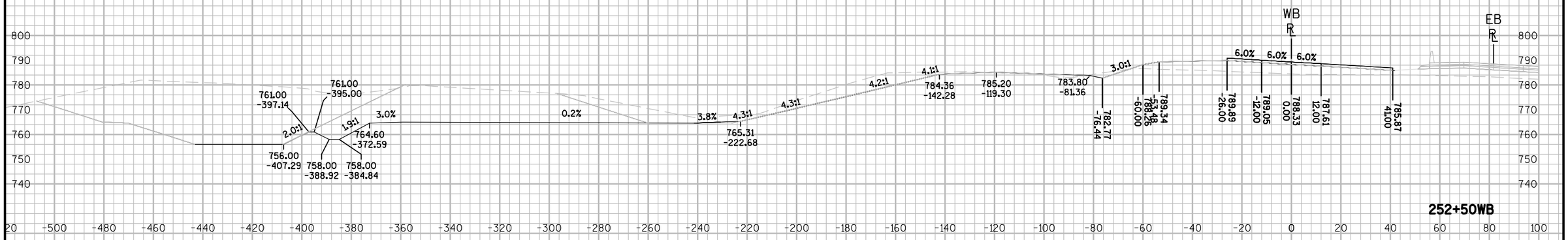
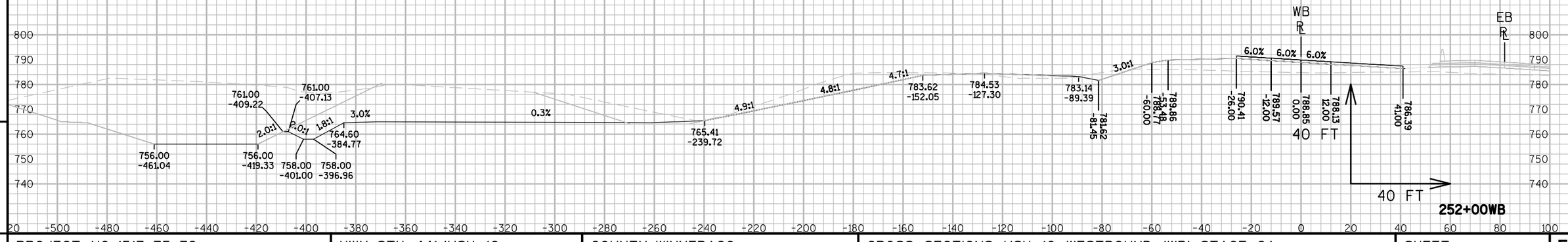
PROJECT NO: 1517-75-72	HWY: STH 441/USH 10	COUNTY: WINNEBAGO	CROSS SECTIONS: USH 10 WESTBOUND (WB)-STAGE 2A	SHEET 725	E

FILE NAME : S:\PDS\C3D\WIS441\15177570_72_77_85\SHEETSPLAN\1517-75-72\090200-XS\NE-15177572-090201-XS-WB-2A.DWG
LAYOUT NAME - 090219-XS-WB-2A
PLOT DATE : 2/10/2017 7:23 AM PLOT BY : VICKMAN, GARRETT T PLOT NAME : PLOT SCALE : 1 IN:40 FT
WISDOT/CADDS SHEET 49







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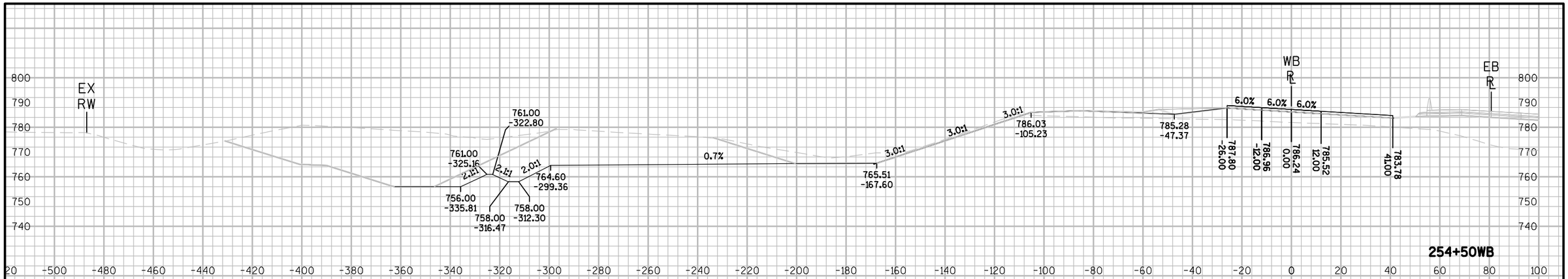
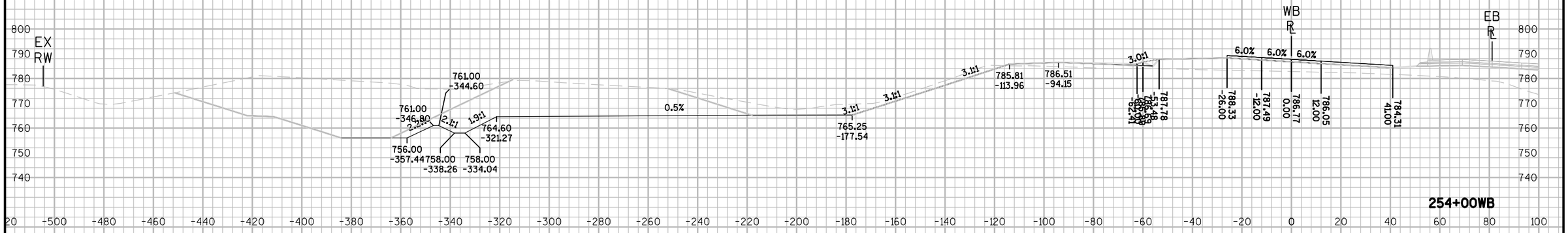
9

PROJECT NO: 1517-75-72	HWY: STH 441/USH 10	COUNTY: WINNEBAGO	CROSS SECTIONS: USH 10 WESTBOUND (WB)-STAGE 2A	SHEET 726	E

FILE NAME : S:\PDS\C3D\WIS441\15177570_72_77_85\SHEETSPLAN\1517-75-72\090200-XS\NE-15177572-090201-XS-WB-2A.DWG
LAYOUT NAME - 090220-XS-WB-2A

PLOT DATE : 2/10/2017 7:23 AM PLOT BY : VICKMAN, GARRETT T PLOT NAME : PLOT SCALE : 1 IN:40 FT





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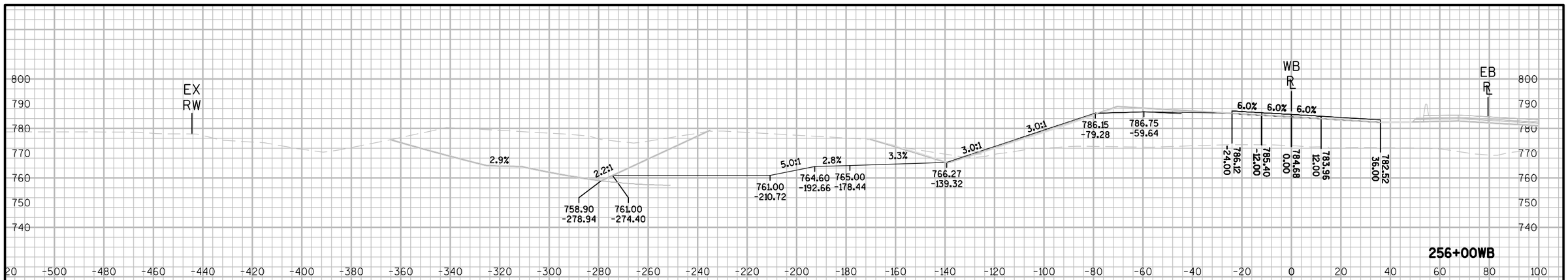
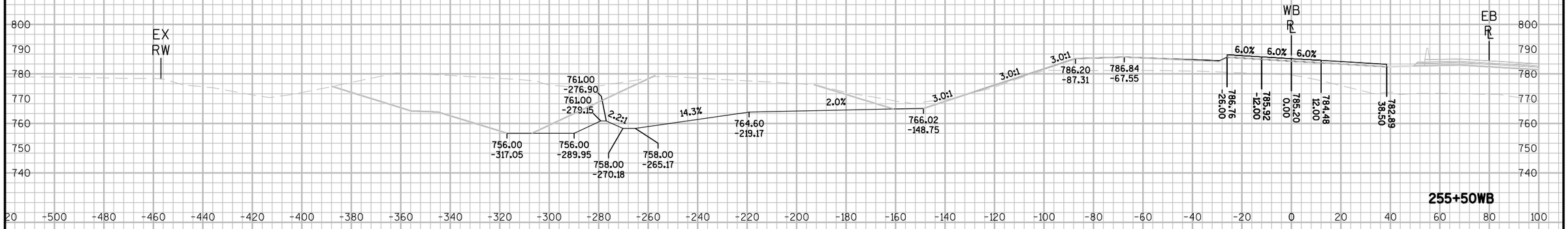
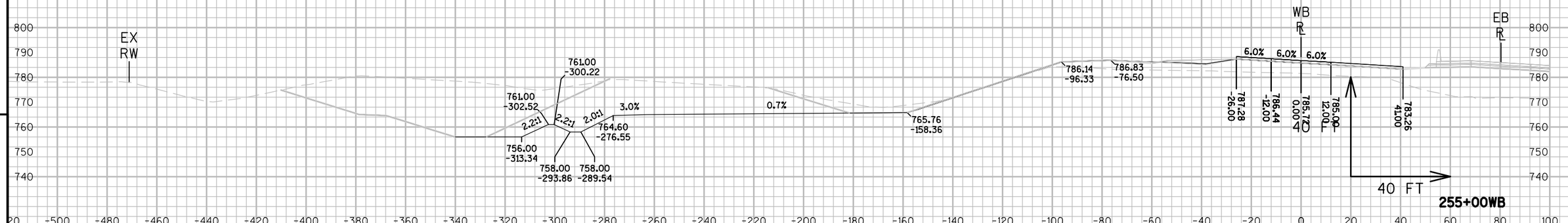
PROJECT NO: 1517-75-72	HWY: STH 441/USH 10	COUNTY: WINNEBAGO	CROSS SECTIONS: USH 10 WESTBOUND (WB)-STAGE 2A	SHEET 727	E

FILE NAME : S:\PDS\C3D\WIS441\15177570_72_77_85\SHEETSPLAN\1517-75-72\090200-XS\NE-15177572-090201-XS-WB-2A.DWG
LAYOUT NAME - 090221-XS-WB-2A

PLOT DATE : 2/10/2017 7:24 AM PLOT BY : VICKMAN, GARRETT T PLOT NAME : PLOT SCALE : 1 IN:40 FT







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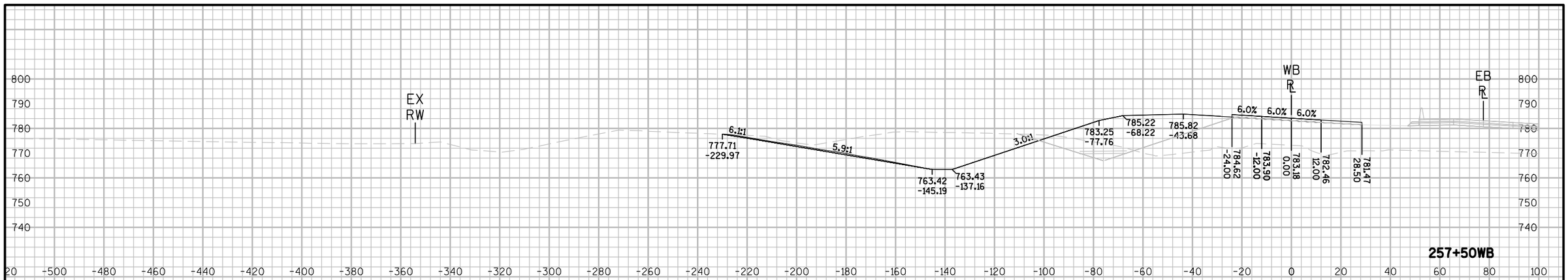
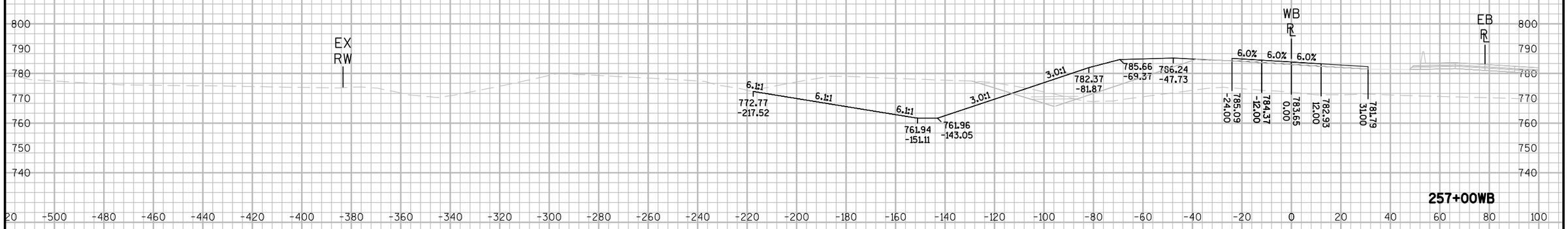
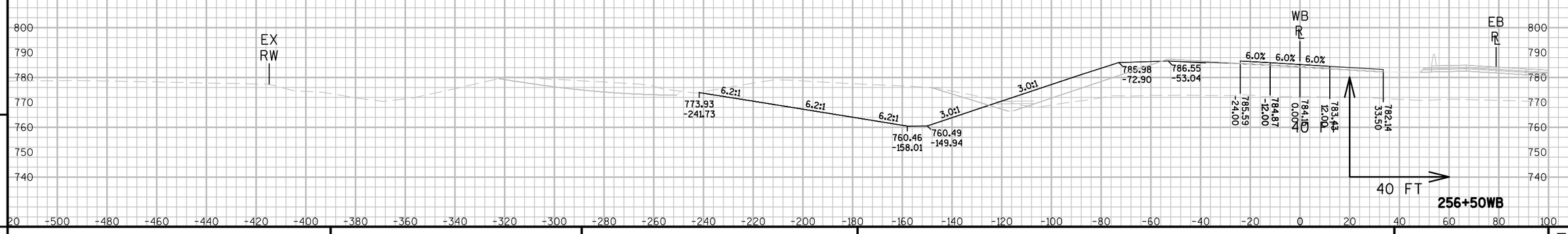
PROJECT NO: 1517-75-72	HWY: STH 441/USH 10	COUNTY: WINNEBAGO	CROSS SECTIONS: USH 10 WESTBOUND (WB)-STAGE 2A	SHEET 728	E

FILE NAME : S:\PDS\C3D\WIS441\15177570_72_77_85\SHEETSPLAN\1517-75-72\090200-XS\NE-15177572-090201-XS-WB-2A.DWG
LAYOUT NAME - 090222-XS-WB-2A

PLOT DATE : 2/10/2017 7:24 AM PLOT BY : VICKMAN, GARRETT T PLOT NAME : PLOT SCALE : 1 IN:40 FT

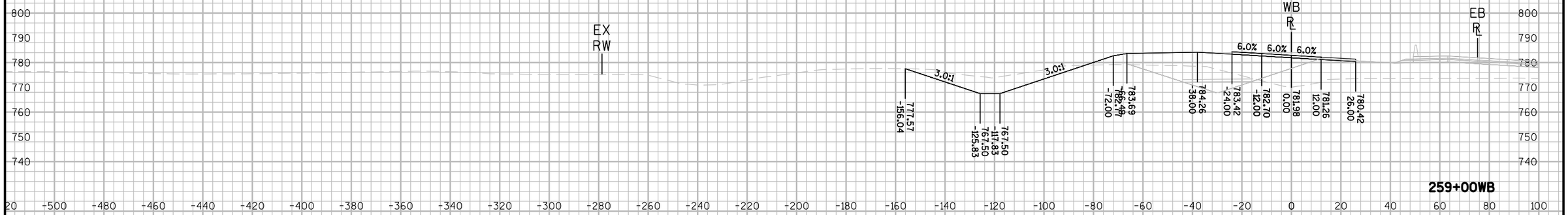


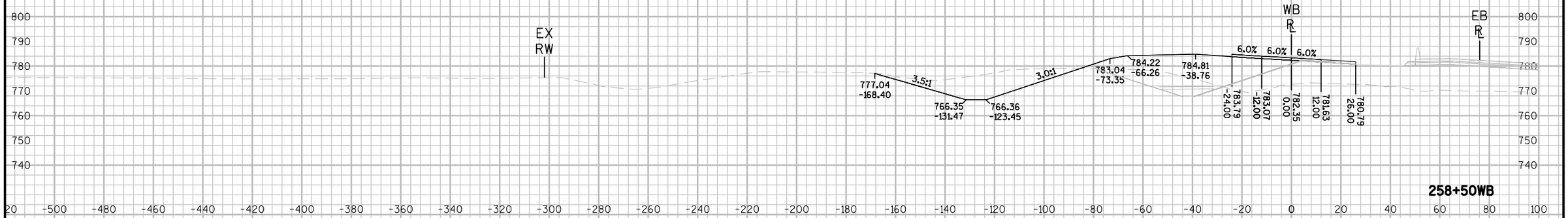


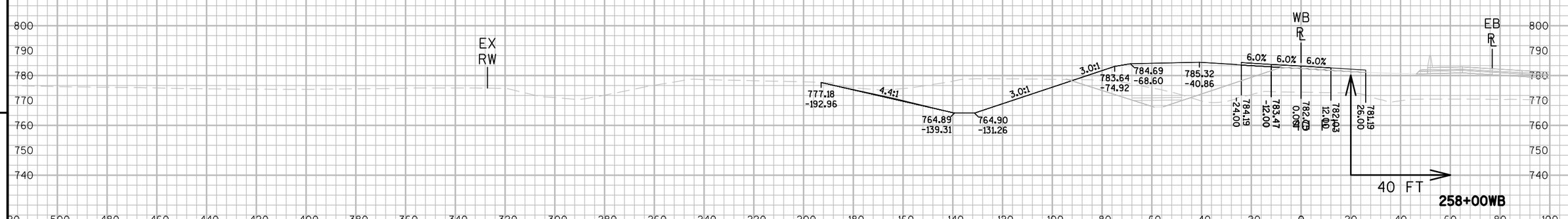


PROJECT NO: 1517-75-72	HWY: STH 441/USH 10	COUNTY: WINNEBAGO	CROSS SECTIONS: USH 10 WESTBOUND (WB)-STAGE 2A	SHEET 729 E

FILE NAME : S:\PDS\C3D\WIS441\15177570_72_77_85\SHEETSPLAN\1517-75-72\090200-XS\NE-15177572-090201-XS-WB-2A.DWG
LAYOUT NAME - 090223-XS-WB-2A
PLOT DATE : 2/10/2017 7:24 AM PLOT BY : VICKMAN, GARRETT T PLOT NAME : PLOT SCALE : 1 IN:40 FT
WISDOT/CADDS SHEET 49







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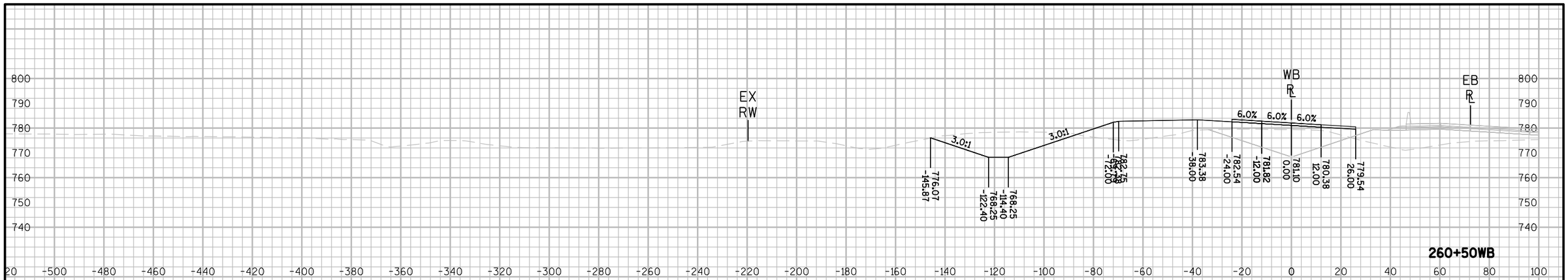
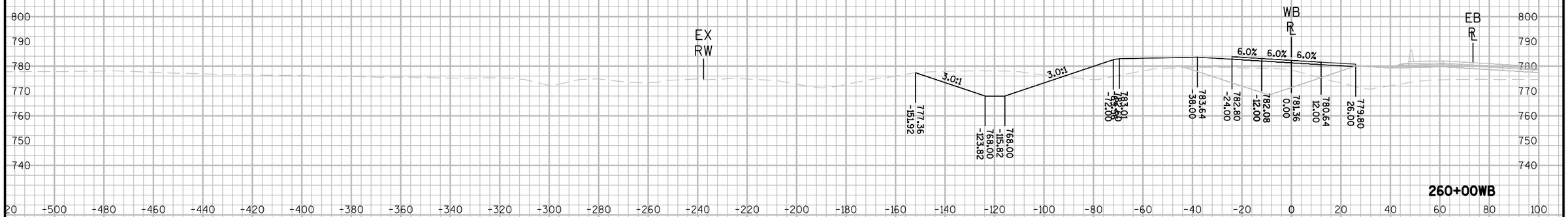
9

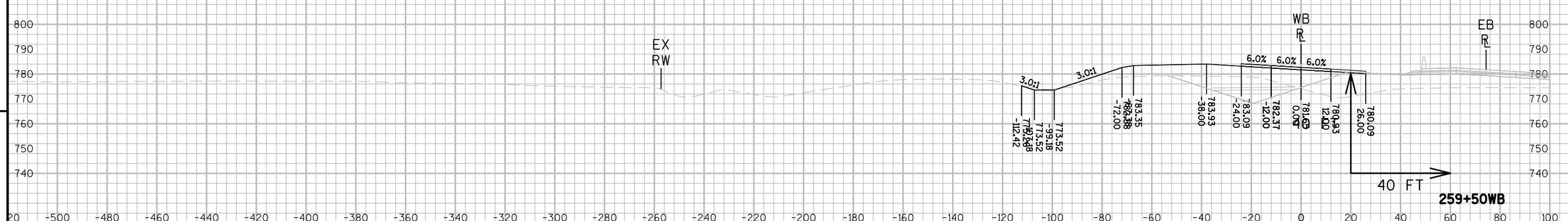
PROJECT NO: 1517-75-72	HWY: STH 441/USH 10	COUNTY: WINNEBAGO	CROSS SECTIONS: USH 10 WESTBOUND (WB)-STAGE 2A	SHEET 730	E

FILE NAME : S:\PDS\C3D\WIS441\15177570_72_77_85\SHEETSPLAN\1517-75-72\090200-XS\NE-15177572-090201-XS-WB-2A.DWG
LAYOUT NAME - 090224-XS-WB-2A

PLOT DATE : 2/10/2017 7:24 AM PLOT BY : VICKMAN, GARRETT T PLOT NAME : PLOT SCALE : 1 IN:40 FT







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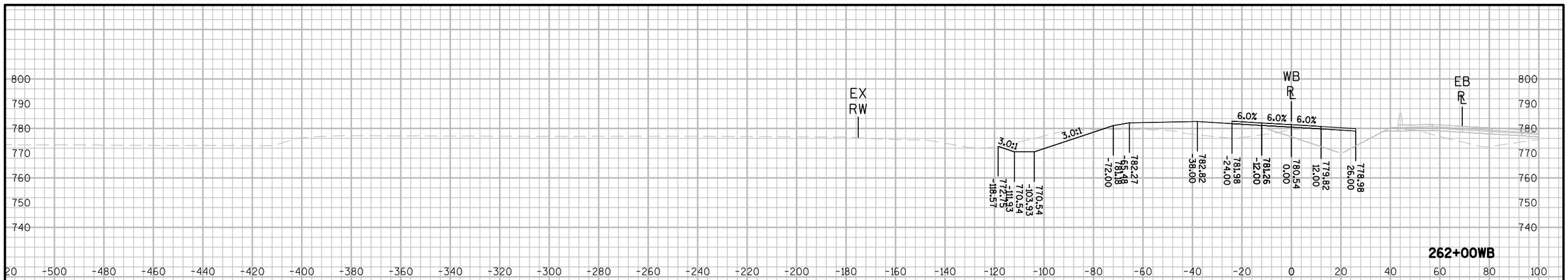
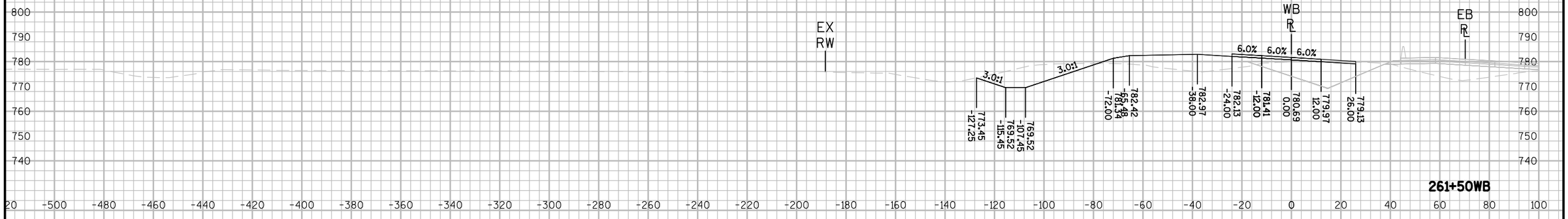
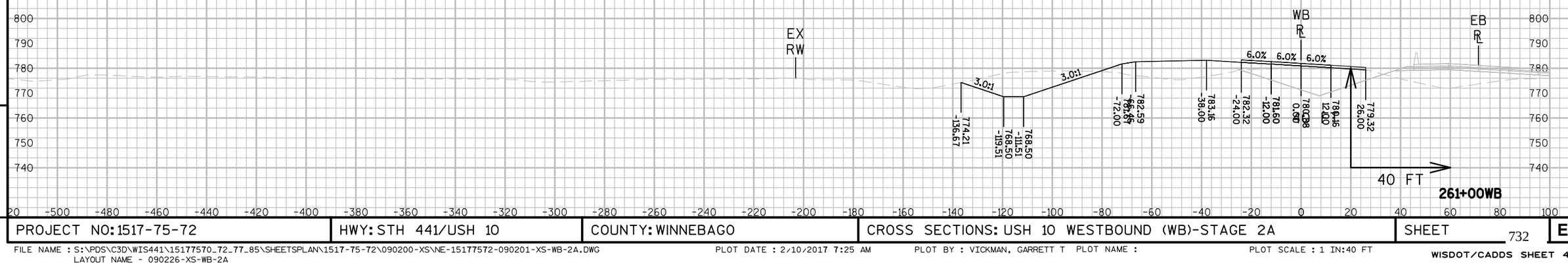
9

PROJECT NO: 1517-75-72	HWY: STH 441/USH 10	COUNTY: WINNEBAGO	CROSS SECTIONS: USH 10 WESTBOUND (WB)-STAGE 2A	SHEET 731	E

FILE NAME : S:\PDS\C3D\WIS441\15177570_72_77_85\SHEETSPLAN\1517-75-72\090200-XS\NE-15177572-090201-XS-WB-2A.DWG
LAYOUT NAME - 090225-XS-WB-2A
PLOT DATE : 2/10/2017 7:25 AM
PLOT BY : VICKMAN, GARRETT T PLOT NAME :
PLOT SCALE : 1 IN:40 FT
WISDOT/CADDS SHEET 49







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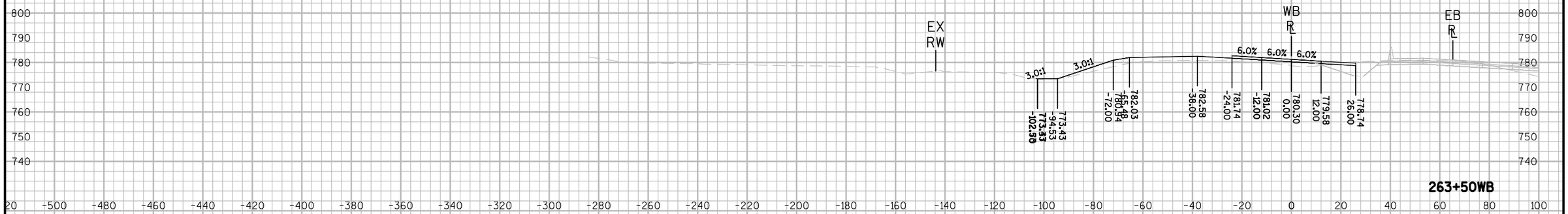
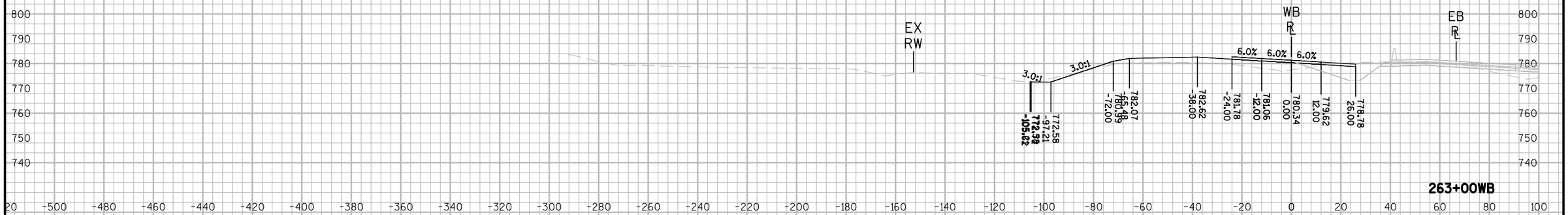
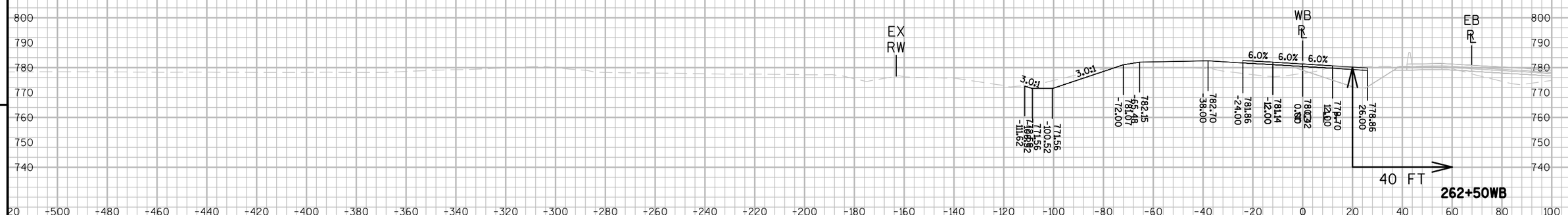
PROJECT NO: 1517-75-72	HWY: STH 441/USH 10	COUNTY: WINNEBAGO	CROSS SECTIONS: USH 10 WESTBOUND (WB)-STAGE 2A	SHEET 732	E

FILE NAME : S:\PDS\C3D\WIS441\15177570_T2_77_85\SHEETSPLAN\1517-75-72\090200-XS\NE-15177572-090201-XS-WB-2A.DWG
LAYOUT NAME - 090226-XS-WB-2A
PLOT DATE : 2/10/2017 7:25 AM
PLOT BY : VICKMAN, GARRETT T PLOT NAME :
PLOT SCALE : 1 IN:40 FT







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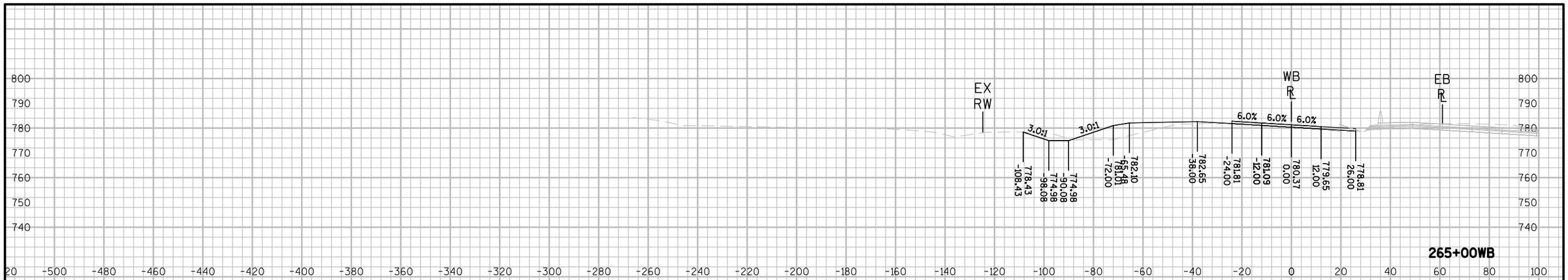
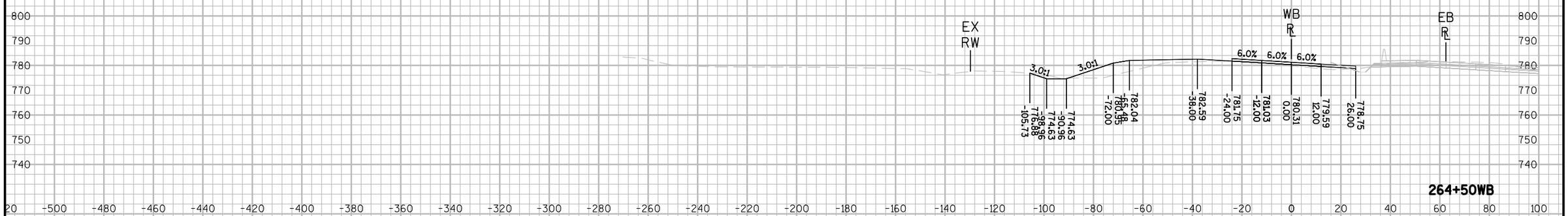
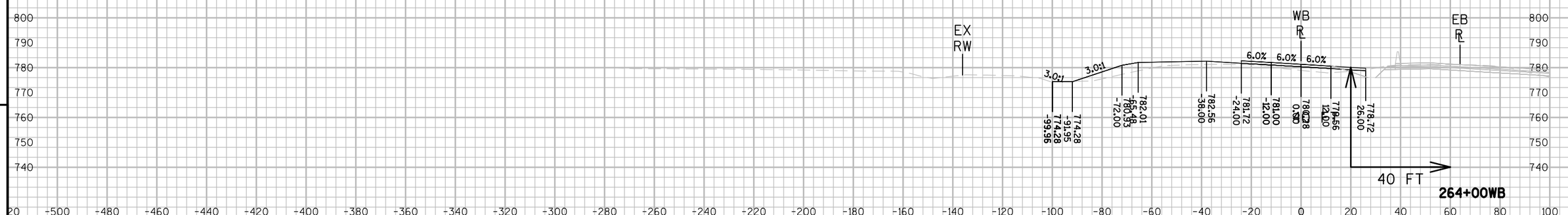
9

PROJECT NO: 1517-75-72	HWY: STH 441/USH 10	COUNTY: WINNEBAGO	CROSS SECTIONS: USH 10 WESTBOUND (WB)-STAGE 2A	SHEET 733	E

FILE NAME : S:\PDS\C3D\WIS441\15177570_72_77_85\SHEETSPLAN\1517-75-72\090200-XS\NE-15177572-090201-XS-WB-2A.DWG
LAYOUT NAME - 090227-XS-WB-2A
PLOT DATE : 2/10/2017 7:25 AM
PLOT BY : VICKMAN, GARRETT T PLOT NAME :
PLOT SCALE : 1 IN:40 FT
WISDOT/CADDS SHEET 49







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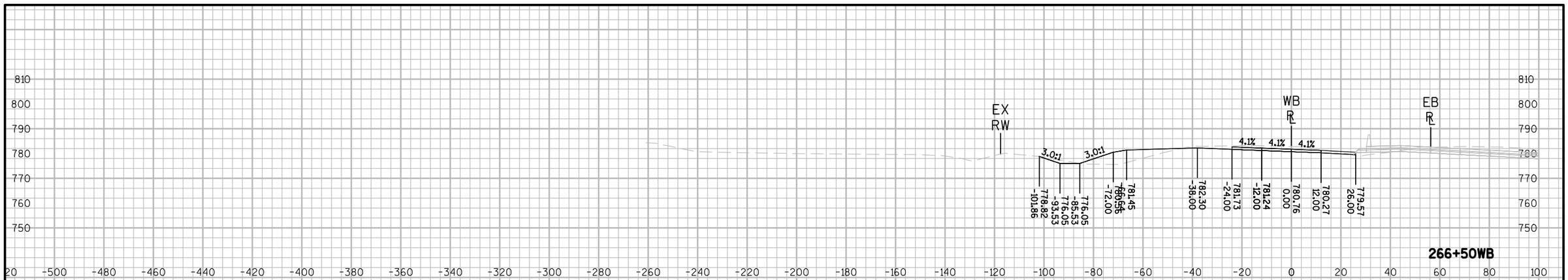
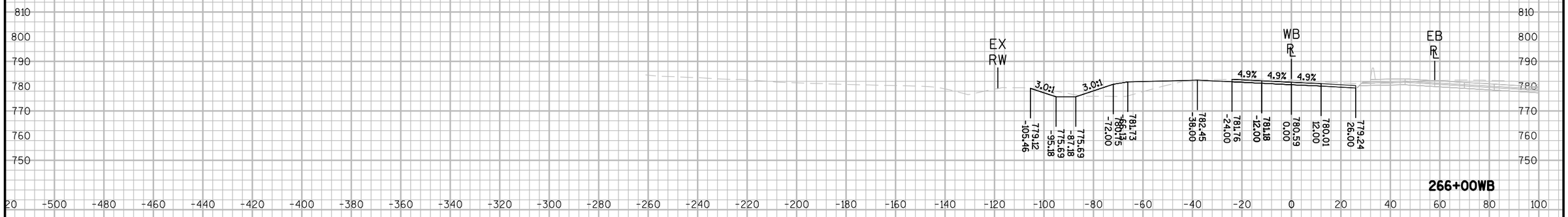
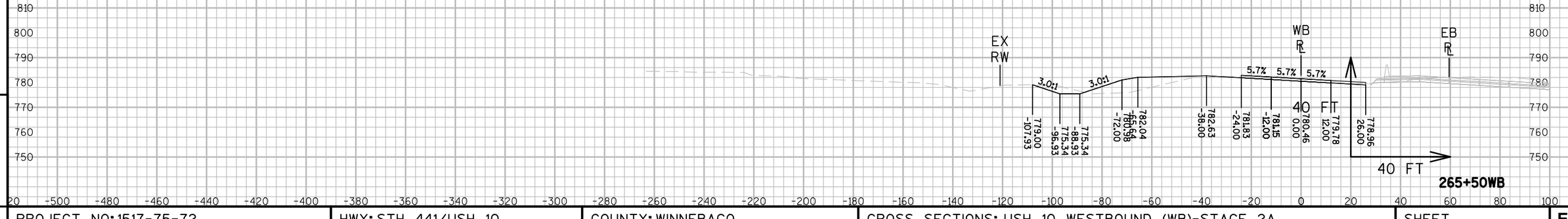
PROJECT NO: 1517-75-72	HWY: STH 441/USH 10	COUNTY: WINNEBAGO	CROSS SECTIONS: USH 10 WESTBOUND (WB)-STAGE 2A	SHEET 734	E







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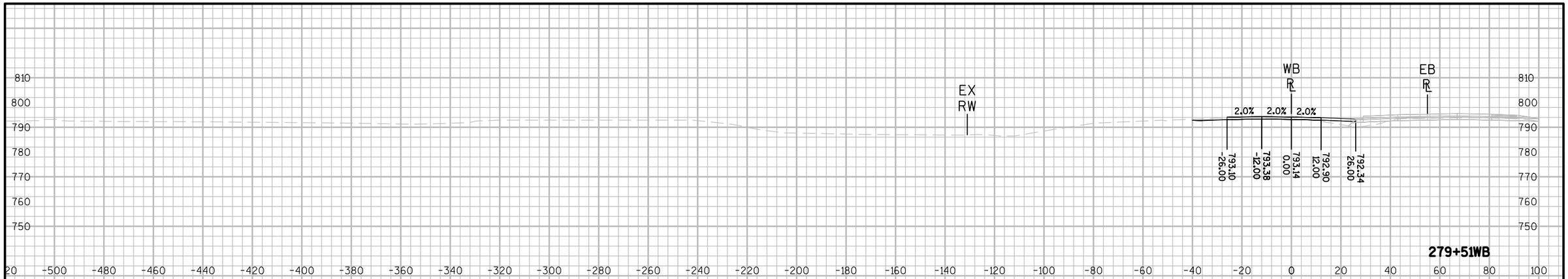
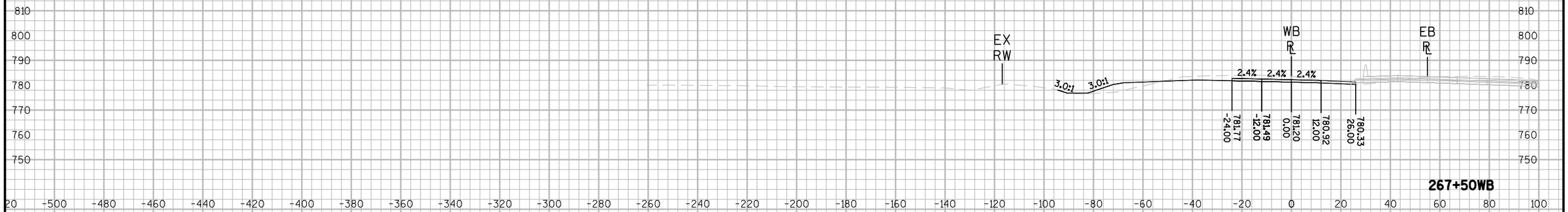
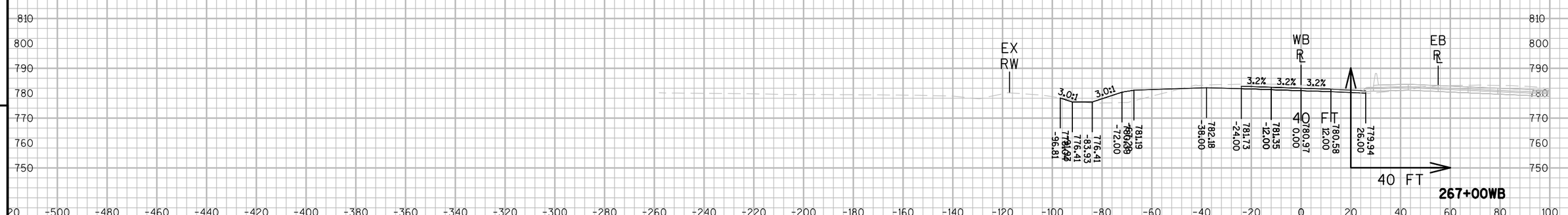
PROJECT NO: 1517-75-72	HWY: STH 441/USH 10	COUNTY: WINNEBAGO	CROSS SECTIONS: USH 10 WESTBOUND (WB)-STAGE 2A	SHEET 735	E

FILE NAME : S:\PDS\C3D\WIS441\15177570_72_77_85\SHEETSPLAN\1517-75-72\090200-XS\NE-15177572-090201-XS-WB-2A.DWG
LAYOUT NAME - 090229-XS-WB-2A

PLOT DATE : 2/10/2017 7:25 AM PLOT BY : VICKMAN, GARRETT T PLOT NAME : PLOT SCALE : 1 IN:40 FT







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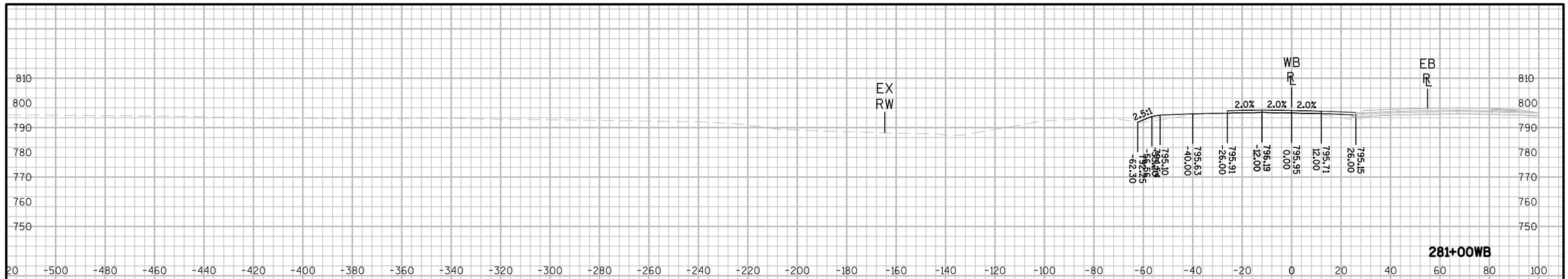
PROJECT NO: 1517-75-72	HWY: STH 441/USH 10	COUNTY: WINNEBAGO	CROSS SECTIONS: USH 10 WESTBOUND (WB)-STAGE 2A	SHEET 736	E

FILE NAME : S:\PDS\C3D\WIS441\15177570_72_77_85\SHEETSPLAN\1517-75-72\090200-XS\NE-15177572-090201-XS-WB-2A.DWG
LAYOUT NAME - 090230-XS-WB-2A
PLOT DATE : 2/10/2017 7:26 AM PLOT BY : VICKMAN, GARRETT T PLOT NAME : PLOT SCALE : 1 IN:40 FT
WISDOT/CADDS SHEET 49



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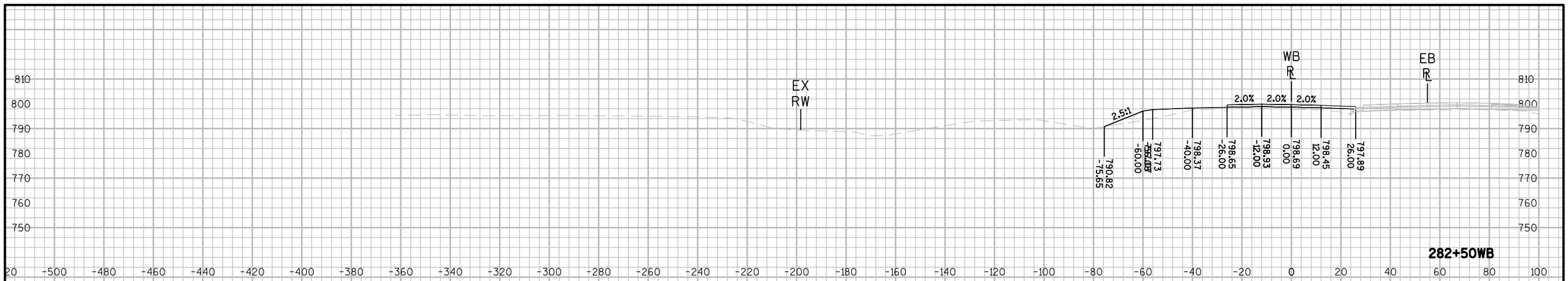
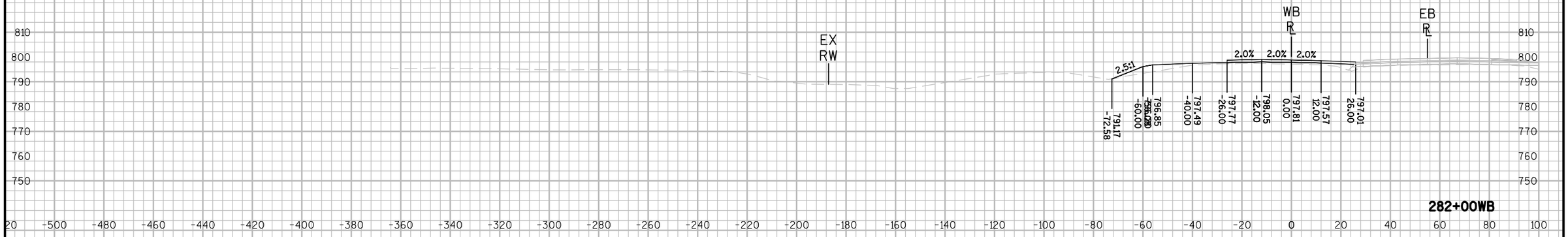
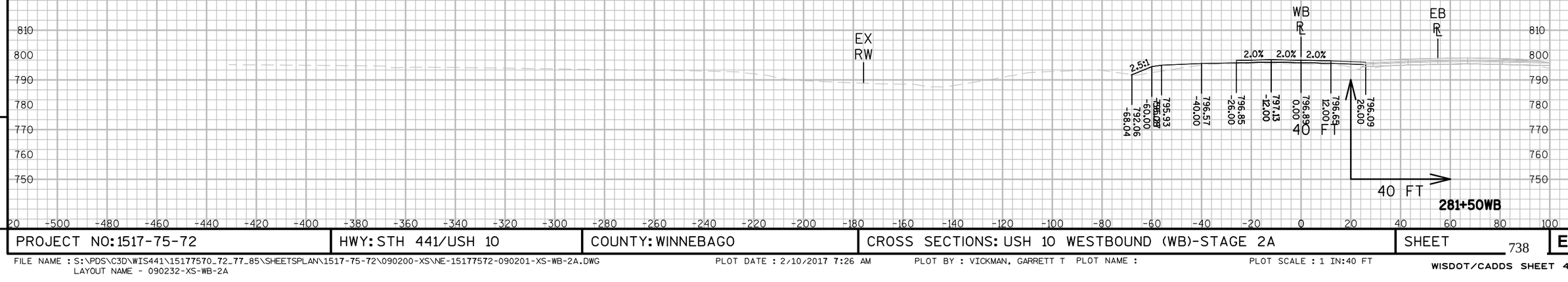
PROJECT NO: 1517-75-72	HWY: STH 441/USH 10	COUNTY: WINNEBAGO	CROSS SECTIONS: USH 10 WESTBOUND (WB)-STAGE 2A	SHEET 737	E

FILE NAME : S:\PDS\C3D\WIS441\15177570_72_77_85\SHEETSPLAN\1517-75-72\090200-XS\NE-15177572-090201-XS-WB-2A.DWG
LAYOUT NAME - 090231-XS-WB-2A
PLOT DATE : 2/10/2017 7:26 AM
PLOT BY : VICKMAN, GARRETT T PLOT NAME :
PLOT SCALE : 1 IN:40 FT
WISDOT/CADDS SHEET 49







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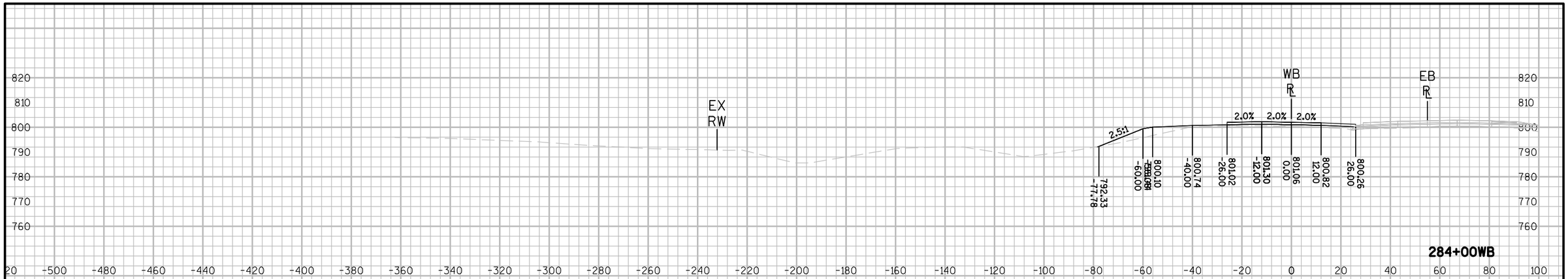
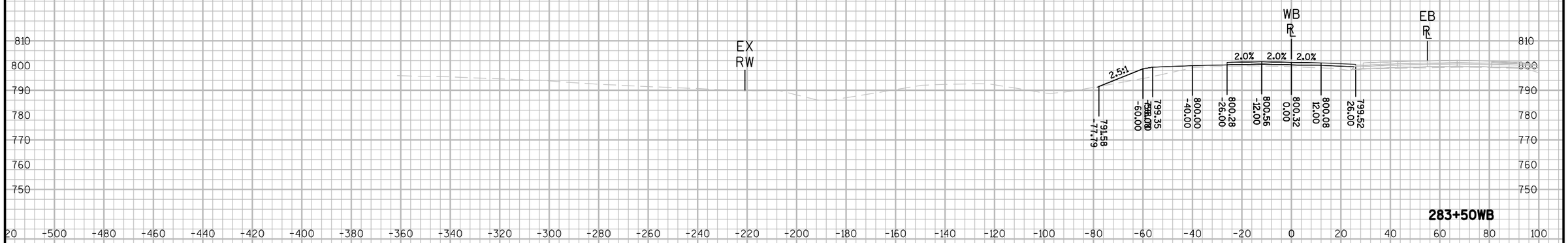
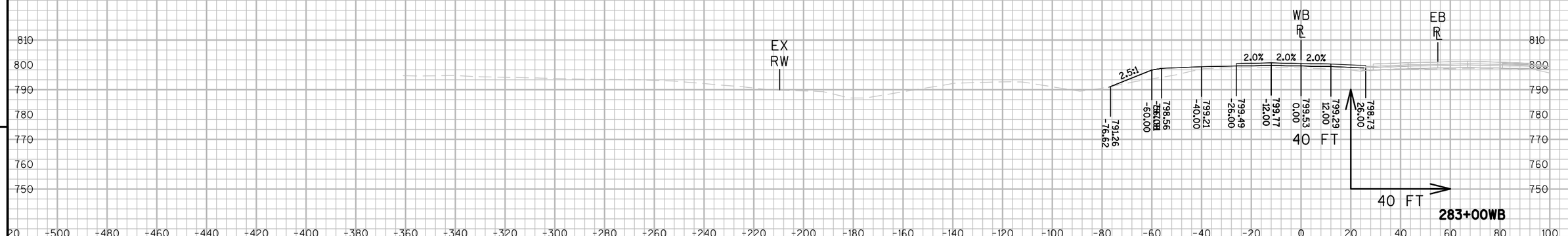
PROJECT NO: 1517-75-72	HWY: STH 441/USH 10	COUNTY: WINNEBAGO	CROSS SECTIONS: USH 10 WESTBOUND (WB)-STAGE 2A	SHEET 738	E

FILE NAME : S:\PDS\C3D\WIS441\15177570_72_77_85\SHEETSPLAN\1517-75-72\090200-XS\NE-15177572-090201-XS-WB-2A.DWG
LAYOUT NAME - 090232-XS-WB-2A

PLOT DATE : 2/10/2017 7:26 AM PLOT BY : VICKMAN, GARRETT T PLOT NAME : PLOT SCALE : 1 IN:40 FT







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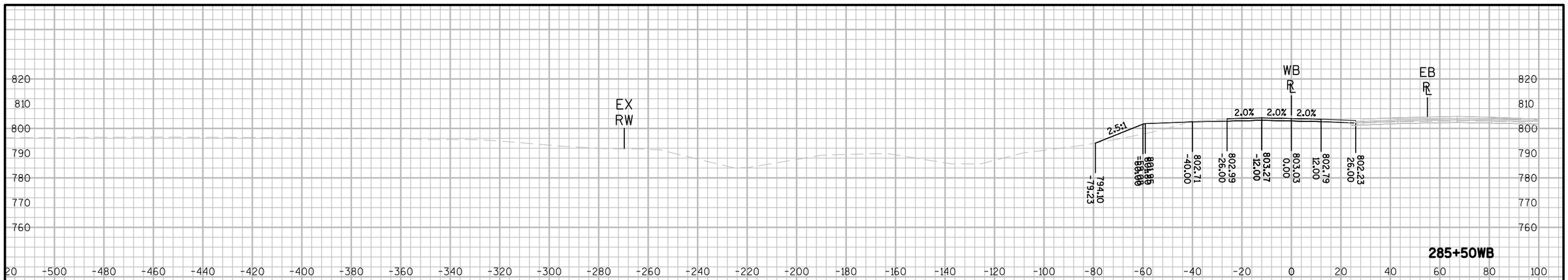
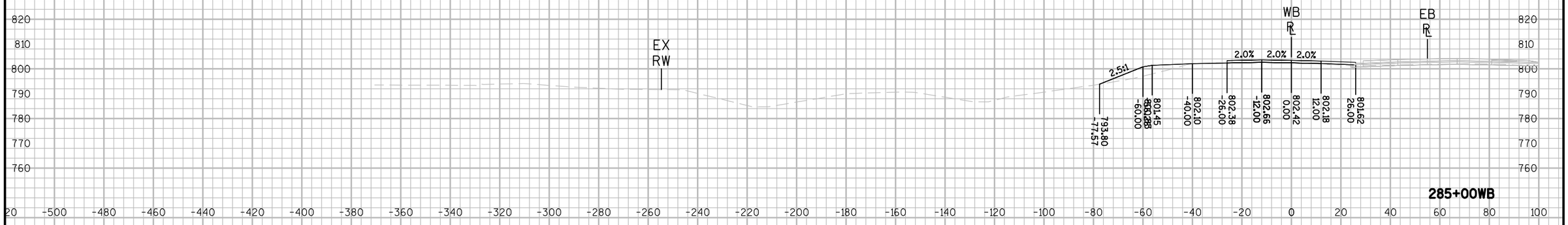
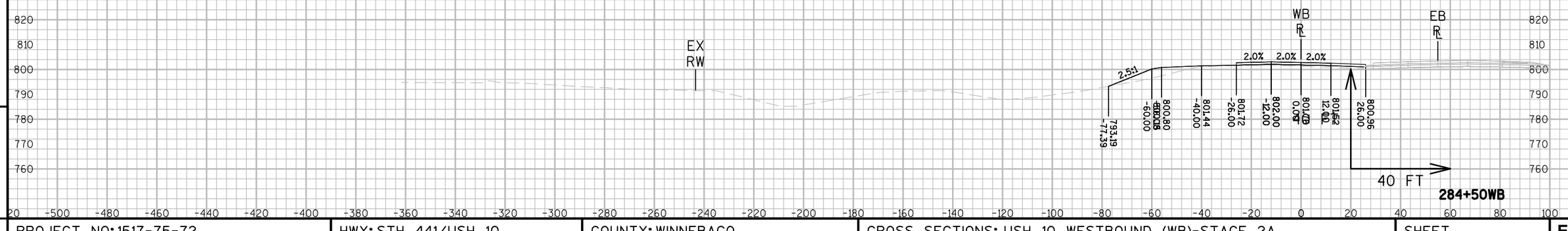
PROJECT NO: 1517-75-72	HWY: STH 441/USH 10	COUNTY: WINNEBAGO	CROSS SECTIONS: USH 10 WESTBOUND (WB)-STAGE 2A	SHEET 739	E







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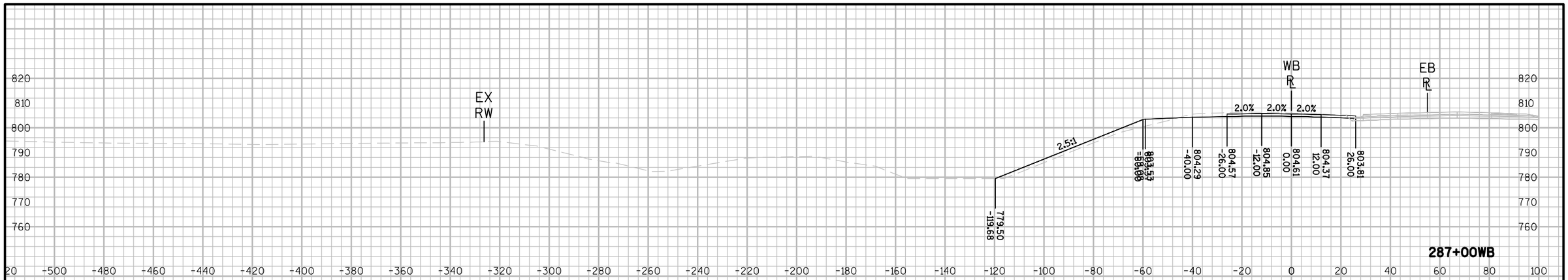
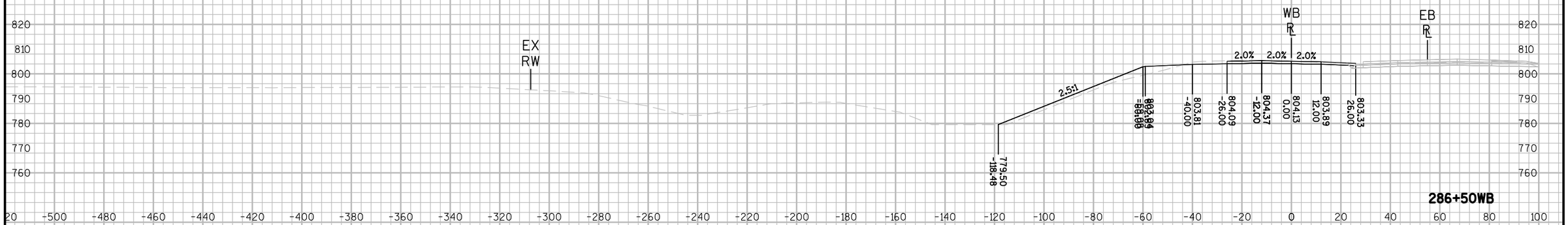
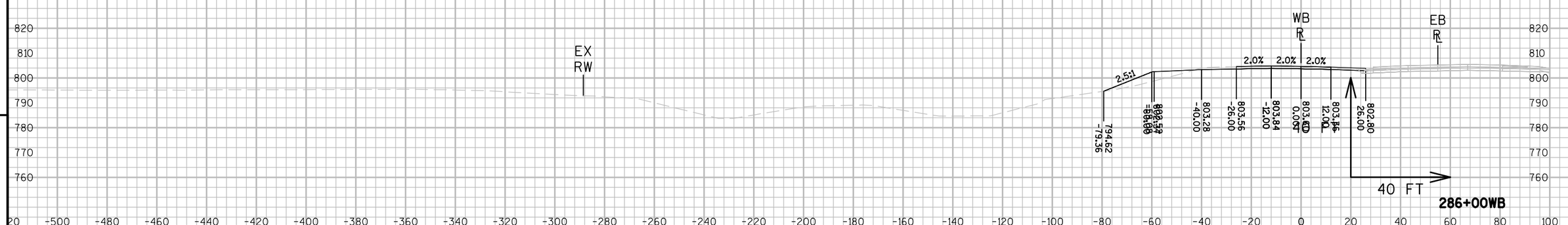
PROJECT NO: 1517-75-72	HWY: STH 441/USH 10	COUNTY: WINNEBAGO	CROSS SECTIONS: USH 10 WESTBOUND (WB)-STAGE 2A	SHEET 740	E

FILE NAME : S:\PDS\C3D\WIS441\15177570_72_77_85\SHEETSPLAN\1517-75-72\090200-XS\NE-15177572-090201-XS-WB-2A.DWG
LAYOUT NAME - 090234-XS-WB-2A

PLOT DATE : 2/10/2017 7:27 AM PLOT BY : VICKMAN, GARRETT T PLOT NAME : PLOT SCALE : 1 IN:40 FT







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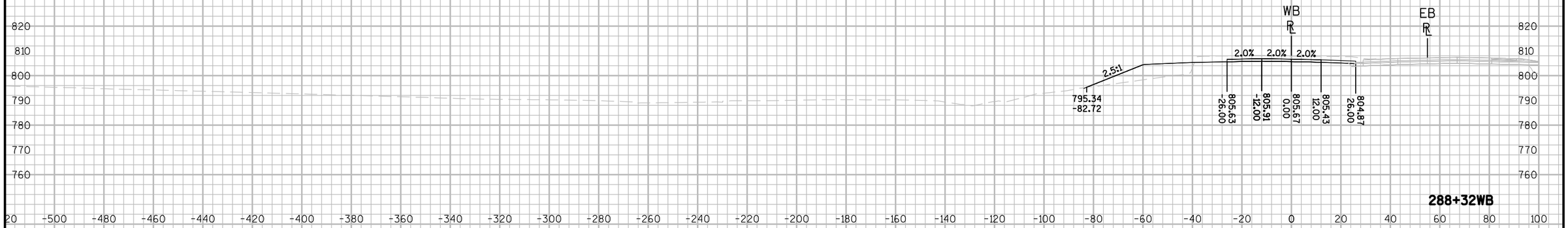
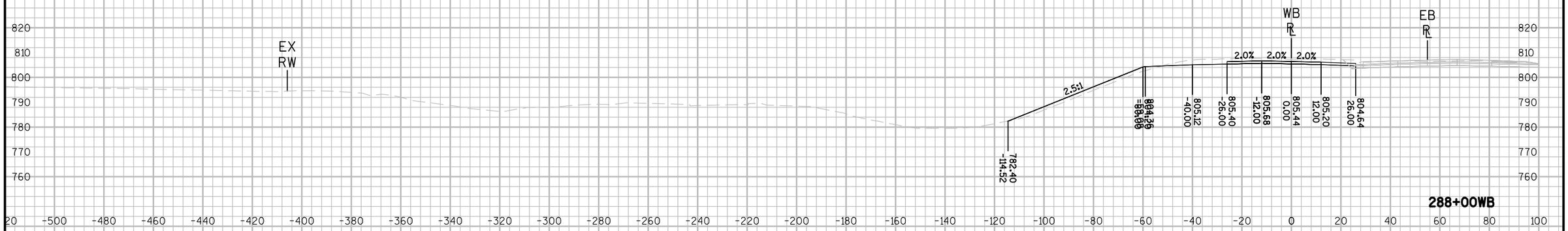
PROJECT NO: 1517-75-72	HWY: STH 441/USH 10	COUNTY: WINNEBAGO	CROSS SECTIONS: USH 10 WESTBOUND (WB)-STAGE 2A	SHEET 741	E

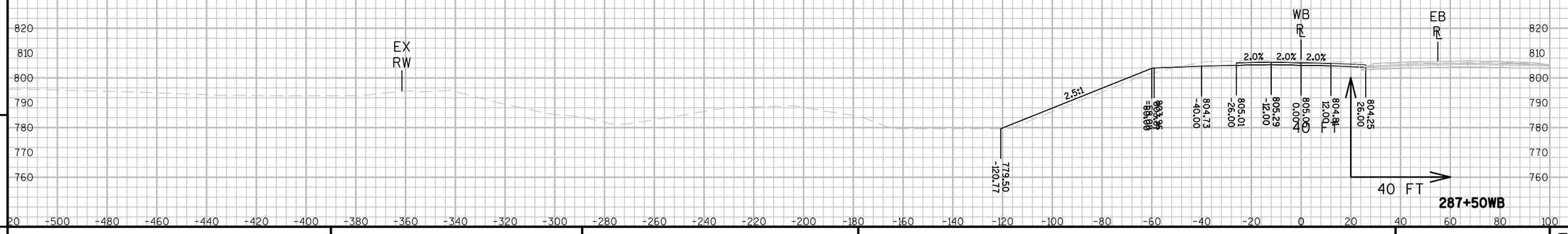
FILE NAME : S:\PDS\C3D\WIS441\15177570_T2_77_85\SHEETSPLAN\1517-75-72\090200-XS\NE-15177572-090201-XS-WB-2A.DWG
LAYOUT NAME - 090235-XS-WB-2A

PLOT DATE : 2/10/2017 7:27 AM PLOT BY : VICKMAN, GARRETT T PLOT NAME : PLOT SCALE : 1 IN:40 FT

WISDOT/CADDS SHEET 49







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PROJECT NO: 1517-75-72	HWY: STH 441/USH 10	COUNTY: WINNEBAGO	CROSS SECTIONS: USH 10 WESTBOUND (WB)-STAGE 2A	SHEET 742	E

FILE NAME : S:\PDS\C3D\WIS441\15177570_72_77_85\SHEETSPLAN\1517-75-72\090200-XS\NE-15177572-090201-XS-WB-2A.DWG
LAYOUT NAME - 090236-XS-WB-2A
PLOT DATE : 2/10/2017 7:27 AM PLOT BY : VICKMAN, GARRETT T PLOT NAME : PLOT SCALE : 1 IN:40 FT
WISDOT/CADDS SHEET 49

Notes

Wisconsin Department of Transportation

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through innovation and exceptional service.

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