GRE

APR 2016

PROJECT ID: 1517-75-76
WITH: N/A

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 = 430

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

PLAN OF PROPOSED IMPROVEMENT

USH 10 - USH 10/STH 441

COUNTY CB - ONEIDA STREET

USH 10

WINNEBAGO COUNTY

RACINE RD RECONSTRUCTION

STATE PROJECT NUMBER
1517-75-76

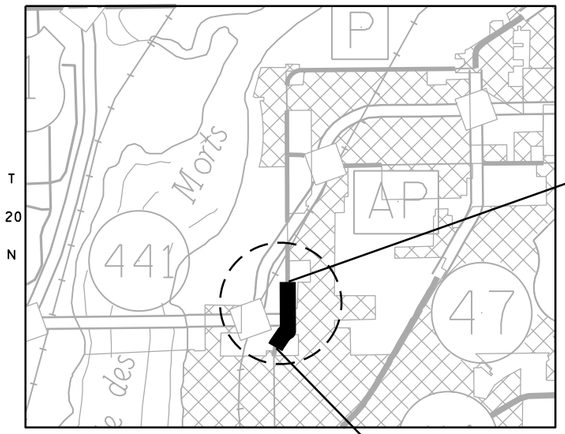
STATE PROJECT	FEDERAL PROJECT	
	PROJECT	CONTRACT
1517-75-76	WISC 2016128	1



DESIGN DESIGNATION		RACINE RD RAMP CONNECTOR	CTH P, S of CONNECTOR	CTH P, N of CONNECTOR	9TH STREET E of RACINE	9TH STREET W of RACINE
A.A.D.T. (2020)	=	21,700	19,200	7,600	5,600	6,200
A.A.D.T. (2038)	=	23,700	21,000	8,100	6,450	7,125
D.H.V. (2038)	=	2,590	2,350	1,220	1,080	1,140
D.D.	=	59%	59%	59%	59%	59%
T.	=	3.03%	5.4%	3.7%	4.0%	3.3%
DESIGN SPEED	=	35 MPH	40 MPH	40 MPH	30 MPH	30 MPH
ESALS	=	N/A	3,528,000	905,000	751,000	695,000

T
20
N

R - 17 - E



END PROJECT
STA 35RNB+02.31

SIGN BRIDGES
S-70-213
S-70-214
S-70-215
S-70-216

BEGIN PROJECT
STA 13RNB+50.00
X = 817168.36
Y = 545094.56

LAYOUT
SCALE 0 .5 MI.

TOTAL NET LENGTH OF ROADWAY CENTERLINE = 0.408 MI.

CONVENTIONAL SYMBOLS

PLAN
- CORPORATE LIMITS
- PROPERTY LINE (PL + 58.1)
- LOT LINE
- LIMITED HIGHWAY EASEMENT
- EXISTING RIGHT OF WAY
- PROPOSED OR NEW R/W LINE
- PROPOSED JOINT 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)
- GAS (G)
- SANITARY SEWER (SAN)
- STORM SEWER (SS)
- WATER (W)
- UTILITY PEDESTAL
- POWER POLE
- TELEPHONE POLE

ELEVATIONS SHOWN ON THIS PLAN ARE REFERENCED TO THE NORTH AMERICAN VERTICAL DATUM OF 1988, NAVD 88 (07).

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

ORIGINAL PLANS PREPARED BY

HNTB
1414 WEST PARK PLACE
MILWAUKEE, WI 53224
(414) 359-2300

WISCONSIN
THOMAS J. DOUGHERTY
E-39804
MILWAUKEE, WI
PROFESSIONAL ENGINEER

2/1/16 (Date)
(Signature)

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

PREPARED BY
- Surveyor: KAPUR
- Designer: HNTB
- Project Manager: SCOTT EBEL
- Regional Examiner:
- Regional Supervisor: CHAD DEGRAVE

APPROVED FOR THE DEPARTMENT
DATE: 1/15/16 (Signature)

E

DIGGERS HOTLINE

Dial 811 or (800) 242-8511

www.DiggersHotline.com

UTILITY CONTACTS

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221 W. WASHINGTON ST 4TH FLOOR
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(920) 202-4002 CELL
JK572k@ATT.COM

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SMAURER@WPPIENERGY.ORG

TOWN OF MENASHA - SANITARY SEWER
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STEVEL@TOWN-MENASHA.COM

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STEVE.JAKUBIEC@TDSTELECOM.COM

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MR. VINCE ALBIN
CONSTRUCTION ADMINISTRATOR
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WE ENERGIES - GAS
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WISCONSIN CENTRAL LTD CONTACTS

RAILROAD FLAGGING CONTACT
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2800 LIVERNOIS ROAD, SUITE 330
TROY, MI 48083
OFFICE: (248) 740-6227
FAX: (248) 740-6036
MARYELLEN.CARMODY@CN.CA

MAIN RAILROAD CONTACT
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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 DIGGERS HOTLINE.
CALL CHRISTINE GRZESIAK, (715) 345-2506, WHEN DIGGING
ON RAILROAD R/W

DNR AREA LIAISON

JAY SCHIEFELBEIN
DEPARTMENT OF NATURAL RESOURCES
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GREEN BAY, WI 54313
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JEREMIAH.SCHIEFELBEIN@WISCONSIN.GOV

WINNEBAGO COUNTY HIGHWAY COMMISSIONER

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

US ARMY CORP OF ENGINEERS

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COUNTY SURVEYOR

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WINNEBAGO COUNTY COURT HOUSE
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TJDOUGHERTY@HNTB.COM

ORDER OF SECTION 2 DETAIL SHEETS

GENERAL NOTES
PROJECT OVERVIEW
TYPICAL SECTIONS
CONSTRUCTION DETAILS
REMOVAL PLAN
PLAN DETAIL
PAVING GRADES
DISTURBED WETLANDS
EROSION CONTROL
STORM SEWER
PIPE UNDERDRAIN LAYOUT
PERMANENT SIGNING
LIGHTING PLANS
TRAFFIC SIGNAL PLANS
PAVEMENT MARKING
TRAFFIC CONTROL
FENCING
ALIGNMENT PLAN

2

GENERAL NOTES

THE CONTRACTOR SHALL CONTACT THE UTILITIES AND DIGGERS HOTLINE TO LOCATE AND FIELD VERIFY UTILITIES PRIOR TO THE START OF WORK. 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. ANY LOCAL, MUNICIPAL OR OTHER UTILITY THAT IS NOT A MEMBER OF DIGGERS HOTLINE SHALL BE CONTACTED SEPERATELY.

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

RIGHT OF WAY LINES SHOWN ON THE CROSS SECTIONS ARE APPROXIMATE.

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.

THE EXACT LOCATIONS OF PRIVATE ENTRANCES ARE TO BE DETERMINED IN THE FIELD BY THE ENGINEER. ALL DRIVEWAYS ARE TO BE REPLACED IN KIND UNLESS OTHERWISE DIRECTED BY THE ENGINEER, OR AS SHOWN ON THE PLANS. BASE AGGREGATE 3/4-INCH SHALL BE USED UNDER ALL DRIVEWAYS.

THE EXACT LOCATION AND WIDTH OF TEMPORARY ACCESS FOR DRIVEWAYS SHALL BE DETERMINED BY THE ENGINEER.

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

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

EROSION BALES ARE TO ONLY BE USED FOR REINFORCEMENT OF PROPOSED SILT FENCE LOCATIONS ALONG WETLANDS. ANY OTHER USE OF EROSION BALES IS PROHIBITED.

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 MATERIAL SIMILAR TO EXISTING GROUND OR ENGINEER APPROVED BACKFILL TO AVOID POTENTIAL FROST HEAVING. BACKFILLING IS INCIDENTAL TO CORRESPONDING ABANDONMENT OR REMOVAL ITEM.

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

CURB AND GUTTER GRADES ARE GIVEN TO THE FLANGE. CURB AND GUTTER RADII ARE MEASURED TO THE FACE OF CURB.

SIDEWALK GRADES ARE GIVEN FROM THE FRONT OF THE SIDEWALK WHEN SHOWN.

FERTILIZER SHALL NOT BE USED NEAR NAVIGABLE WATERWAYS OR WETLANDS.

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

REMOVING CONCRETE INCLUDES ANY MESH OR REINFORCEMENT THAT MAY BE PART OF THE PAVEMENT STRUCTURE. EXISTING PAVEMENT DEPTHS ARE BASED ON AS-BUILT DATA AND MAY VARY IN THE FIELD

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.

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 FIT 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 LOCATION OF SIGNS 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.

5 FOOT WIDE SIDEWALK REQUIRES TRANSVERSE JOINTS SPACED AT 5 FEET. 10 FOOT WIDE SIDEWALK REQUIRES TRANSVERSE JOINTS SPACED AT 10 FEET.

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

SIDEWALK REPLACEMENT SHOULD BE TO THE NEAREST JOINT. LIMITS ARE APPROXIMATE AND ARE TO BE VERIFIED IN THE FIELD BY THE ENGINEER. MATCH EXISTING SIDEWALK WIDTH.

FOR ALL CURB RAMPS, REFER TO THE STANDARD DETAIL DRAWINGS FOR THE RAMP TAPER DIMENSIONS. SIDEWALK WIDTHS ARE DIMENSIONED IN THE PLAN.

ALIGNMENT IDENTIFIERS	
CCW	CITGO CAR WASH DRIVEWAY
CDW	CITGO DRIVEWAY
CGS	CITGO GAS STATION DRIVEWAY
CNB	RACINE ROAD CONNECTOR NB
CNBP	RACINE ROAD CONNECTOR NB - OUTSIDE EOP
CSB	RACINE ROAD CONNECTOR SB
CSBP	RACINE ROAD CONNECTOR SB - OUTSIDE EOP
NS	9TH STREET
PDQ	PDQ DRIVEWAY
RNB	RACINE ROAD NB
RRT	RACINE ROAD ROUNDABOUT
RSB	RACINE ROAD SB
RSEC	RACINE ROAD SE BYPASS
RSEP	RACINE ROAD SE BYPASS - OUTSIDE EOP
RSWC	RACINE ROAD SW BYPASS
RSWP	RACINE ROAD SW BYPASS - OUTSIDE EOP
SDW	SPILSKI DRIVEWAY
TSN	12TH STREET NB - OUTSIDE EOP
TSS	RACINE ROAD NB - OUTSIDE EOP
TST	12TH STREET NB - INSIDE EOP
TWS	12TH STREET
VMB	VALLEY MUFFLER & BRAKE PARKING

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	CULVERT PIPE CORRUGATED METAL
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
EAT	ENERGY ABSORBING TERMINAL
EOP	EDGE OF PAVEMENT
FE	FIELD ENTRANCE
HMA	HOT MIX ASPHALT
INV	INVERT
L	LENGTH OF CURVE
LHF	LEFT HAND FORWARD
LT	LEFT
MIN	MINIMUM
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 EASMENT
PT	POINT OF TANGENT
R	RADIUS OF CURVE
R/L	REFERENCE LINE
R/W	RIGHT OF WAY
RC	REVERSE CROWN
RCAEW	APRON ENDWALL FOR CULVERT PIPE REINFORCED CONCRETE
REQD	REQUIRED
RHF	RIGHT HAND FORWARD
RO	RUN OFF LENGTH
RRSP	RAILROAD SPIKE
RT	RIGHT
SALV	SALVAGED
SAPBC	SALVAGED ASPHALTIC PAVEMENT BASE COARSE
SB	SOUTHBOUND
SDD	STANDARD DETAIL DRAWINGS
SE	SUPER ELEVATION
SF	SQUARE FOOT
SSPRC	STORM SEWER PIPE REINFORCED CONCRETE
STA	STATION
SY	SQUARE YARD
T	TANGENT LENGTH
TLE	TEMPORARY LIMITED EASEMENT
VCL	VERTICAL CURVE LENGTH
VPC	POINT OF VERTICAL CURVE
VPI	POINT OF VERTICAL INTERSECTION
VPT	POINT OF VERTICAL TANGENT

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-	0.19	0.20	0.24	0.19	0.22	0.26	0.20	0.23	0.30	0.20	0.25	0.30
TURF	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 SLOPE-			0.25			0.27			0.28			0.30
TURF			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											

1517-75-76

TOTAL PROJECT AREA = 18.39 ACRES

TOTAL AREA EXPECTED TO BE DISTURBED BY CONSTRUCTION ACTIVITIES = 15.22 ACRES

FILE NAME: I:\56537\1517-75-76\t1\cds\020101_gn.ppt PLOT DATE : 2/1/2016 2:37:59 PM PLOT BY : PLOT NAME : 020101_gn4 PLOT SCALE : 1:1

2

N

FRANCES STREET

US 10/STH 441

WISCONSIN CENTRAL LTD RAIL ROAD

CTH P/RACINE ROAD

40RNB

END CONSTRUCTION
STA. 35RNB+77.04

END PROJECT 1517-75-76
STA. 35RNB+02.31

35RNB

END CONSTRUCTION
STA. 28RSB+64.64

FINAL PLANTING/GRADING REQUIRED

TOWN OF MENASHA

250CNB
250CSB

245CNB
245CSB

RACINE ROAD RAMP CONNECTOR

240CNB
240CSB

11RSEC

15RSEC

30RNB
20RSB

11TWS

13TWS

12TH STREET

END CONSTRUCTION
STA. 13TWS+14.34

BEGIN CONSTRUCTION
STA. 10TWS+17.00

15RSWC

20RSWC

25RSWC

25RSB
25RNB

US 10/STH 441

LITTLE LAKE BUTTE DE MORTS
(FOX RIVER)

TAYCO STREET

20RSB
20RNB

BEGIN CONSTRUCTION
STA. 20RSB+61.04

CITY / TOWN LIMITS

10NS

15NS

BEGIN CONSTRUCTION
STA. 13NS+31.00

9TH STREET

15RNB

END CONSTRUCTION
STA. 19NS+20.00

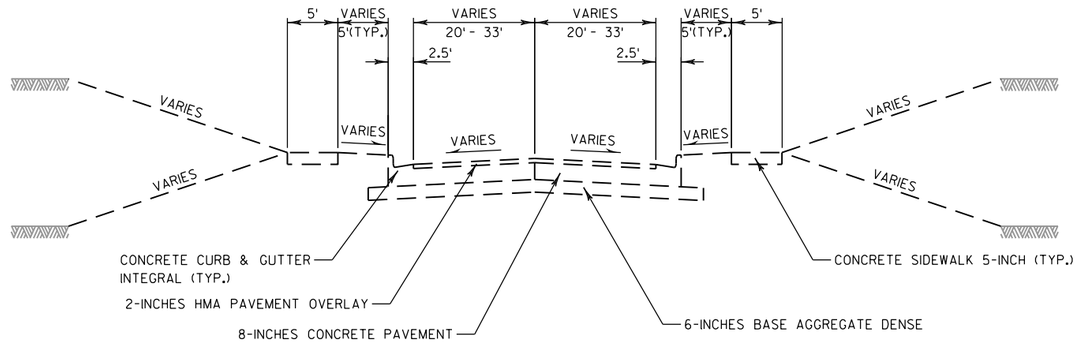
CITY OF MENASHA

BEGIN PROJECT 1517-75-76
STA. 13RNB+50.00

BEGIN CONSTRUCTION
STA. 12RNB+50.00

PROJECT NO: 1517-75-76	HWY: USH 10	COUNTY: WINNEBAGO	PROJECT OVERVIEW	SHEET 6	E

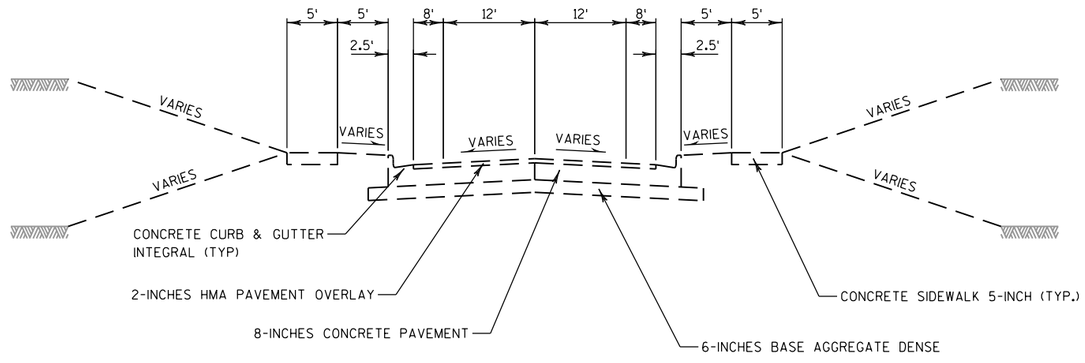
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TYPICAL EXISTING SECTION

RACINE STREET

STA 13RNB+50 TO STA 15RNB+45



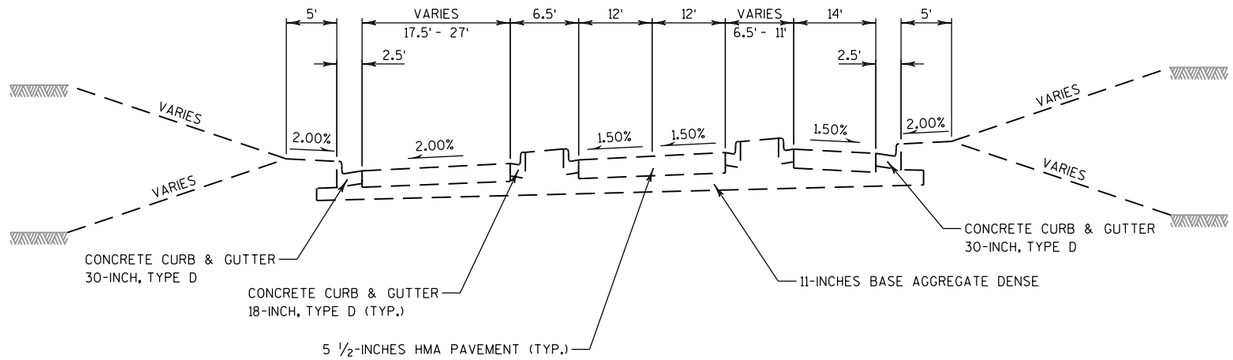
TYPICAL EXISTING SECTION

RACINE STREET

STA 12RNB+50 TO STA 13RNB+50

PROJECT NO: 1517-75-76	HWY: USH 10	COUNTY: WINNEBAGO	TYPICAL SECTIONS	SHEET 7	E

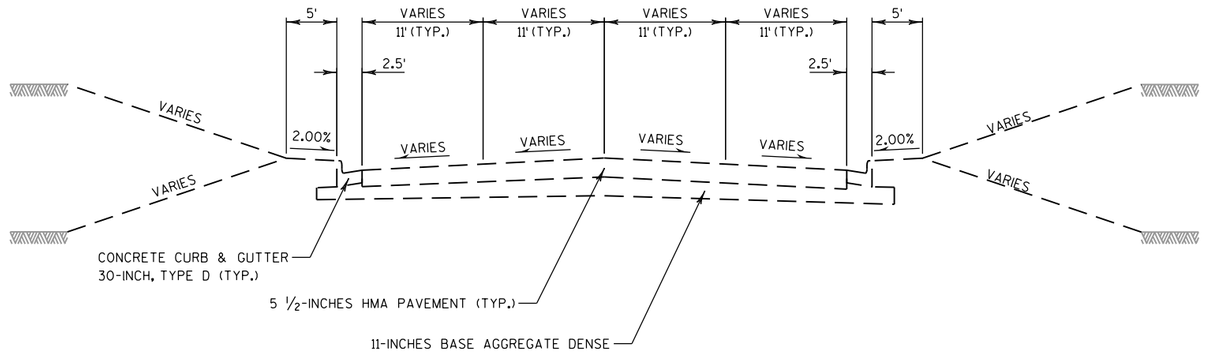
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TYPICAL EXISTING SECTION

RACINE ROAD

STA 23RNB+47 TO STA 28RNB+20 (12TH ST)



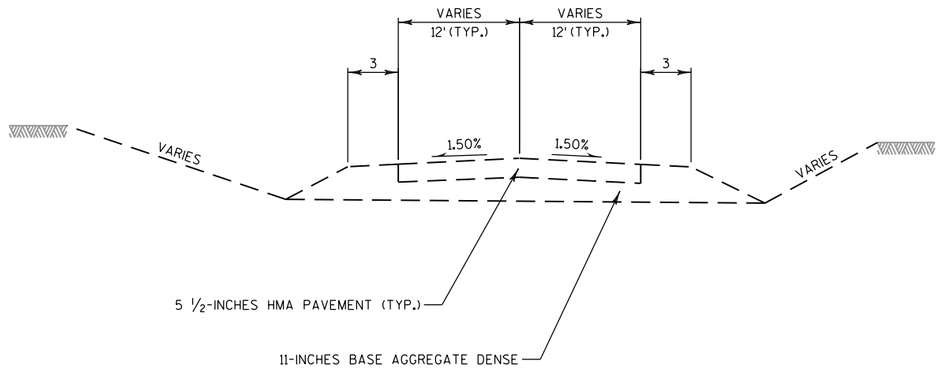
TYPICAL EXISTING SECTION

RACINE ROAD

STA 15RNB+88 TO STA 23RNB+47

PROJECT NO: 1517-75-76	HWY: USH 10	COUNTY: WINNEBAGO	TYPICAL SECTIONS	SHEET 8	E

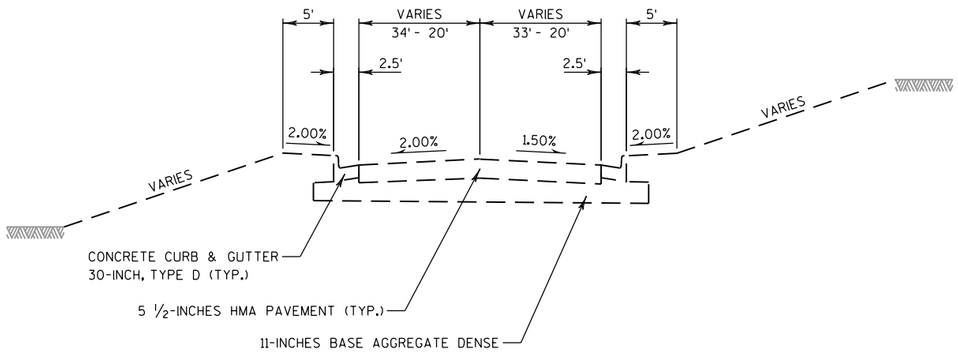
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TYPICAL EXISTING SECTION

RACINE ROAD

STA 32RNB+00 TO STA 35RNB+77



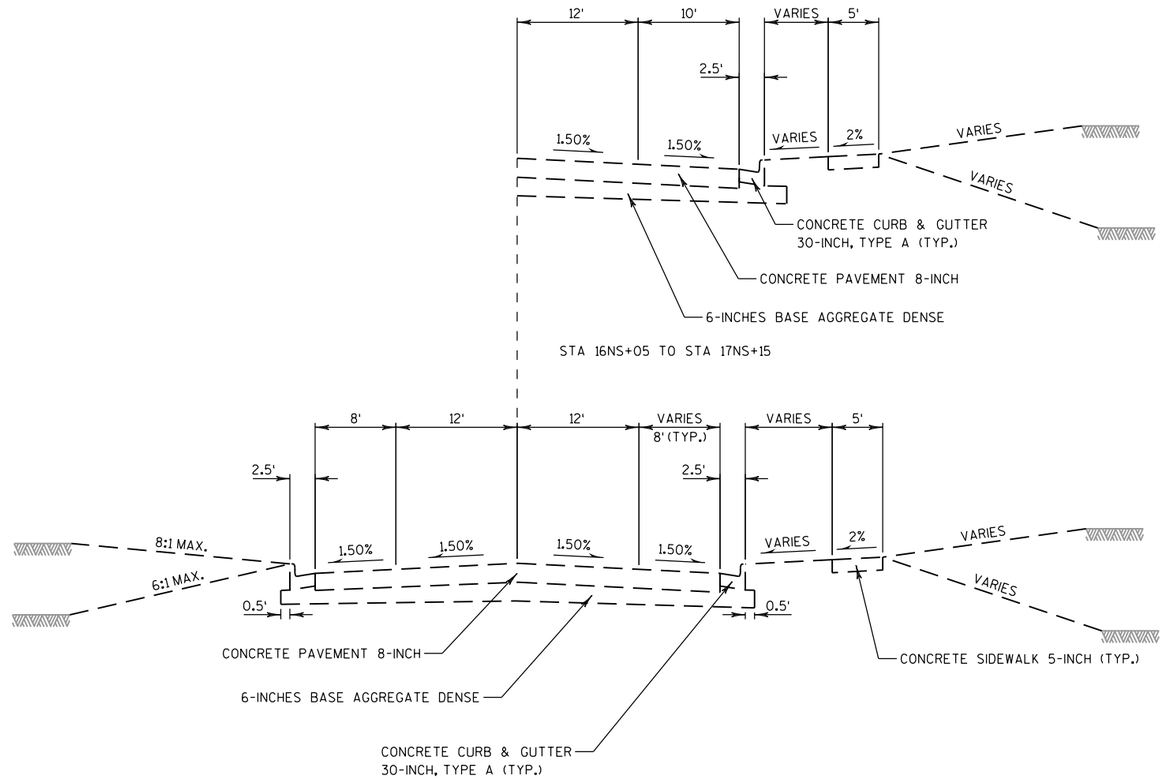
TYPICAL EXISTING SECTION

RACINE ROAD

STA 28RNB+20 (12TH ST) TO STA 32RNB+00

PROJECT NO: 1517-75-76	HWY: USH 10	COUNTY: WINNEBAGO	TYPICAL SECTIONS	SHEET 9	E

2

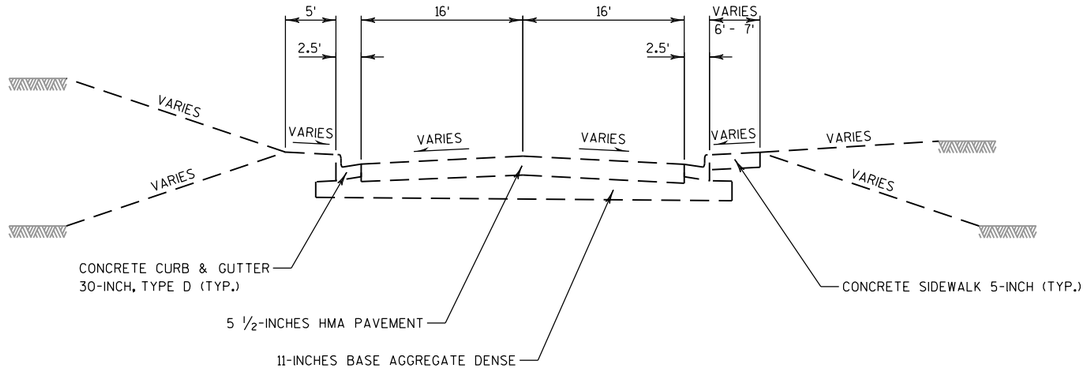


TYPICAL EXISTING SECTION

9TH STREET

STA 13NS+31 TO STA 19NS+20

2



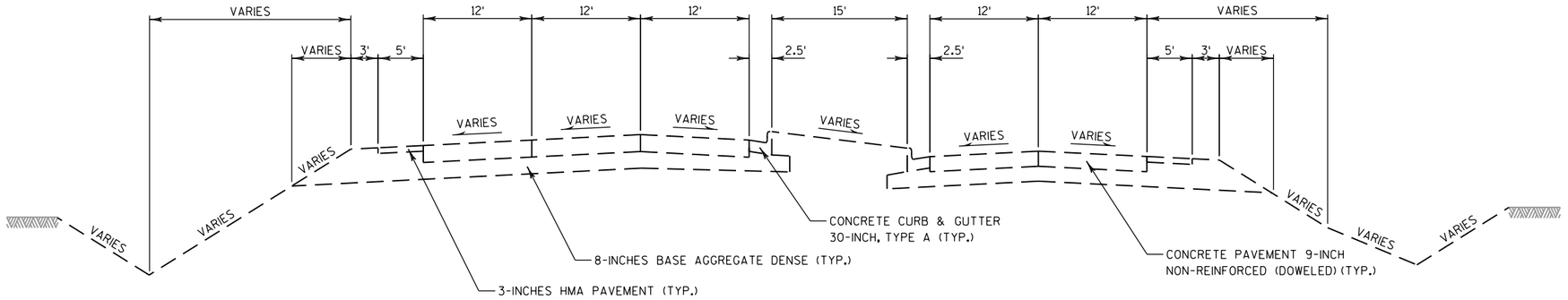
TYPICAL EXISTING SECTION

12TH STREET

STA 10TWS+00 TO STA 13TWS+15

PROJECT NO: 1517-75-76	HWY: USH 10	COUNTY: WINNEBAGO	TYPICAL SECTIONS	SHEET 11	E

2



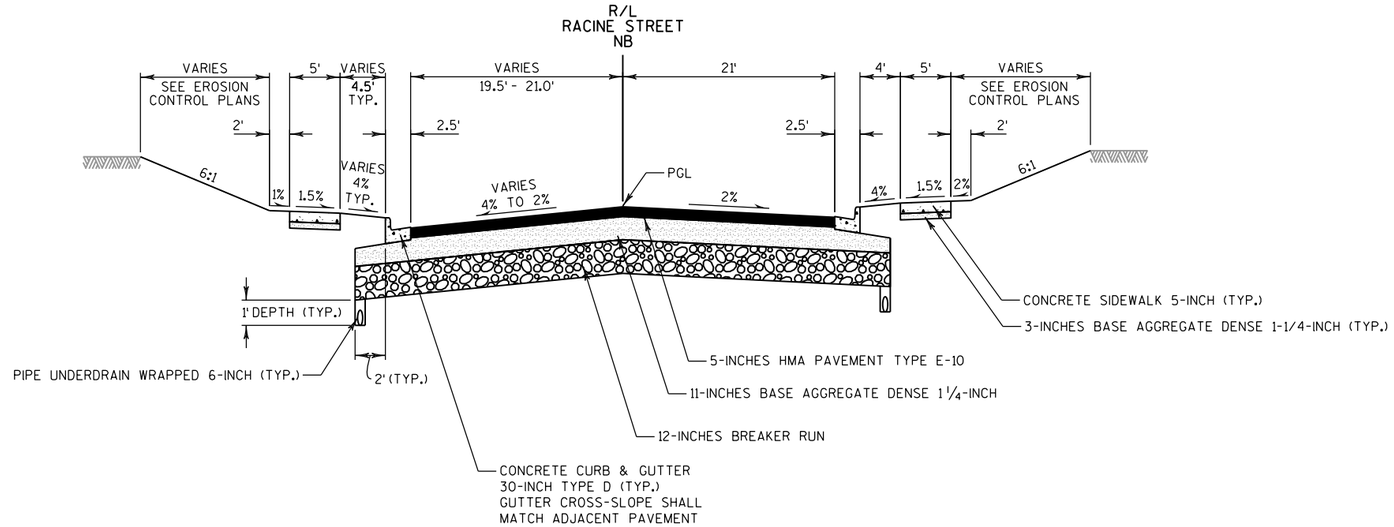
TYPICAL EXISTING SECTION

RACINE ROAD RAMP CONNECTOR

CTH P (RACINE RD) TO STA 243CNB+93

PROJECT NO: 1517-75-76	HWY: USH 10	COUNTY: WINNEBAGO	TYPICAL SECTIONS	SHEET 12	E

HMA PAVEMENT TYPE	TOTAL LAYER PAVEMENT THICKNESS	LAYERS	ASPHALTIC MATERIAL
E-0.3	2"	2" UPPER LAYER	PG 58-28
E-0.3	5"	1 3/4" UPPER LAYER 3 1/4" LOWER LAYER	PG 58-28
E-1	4"	1 3/4" UPPER LAYER 2 1/4" LOWER LAYER	PG 58-28
E-10	5"	1 3/4" UPPER LAYER 3 1/4" LOWER LAYER	PG 58-28

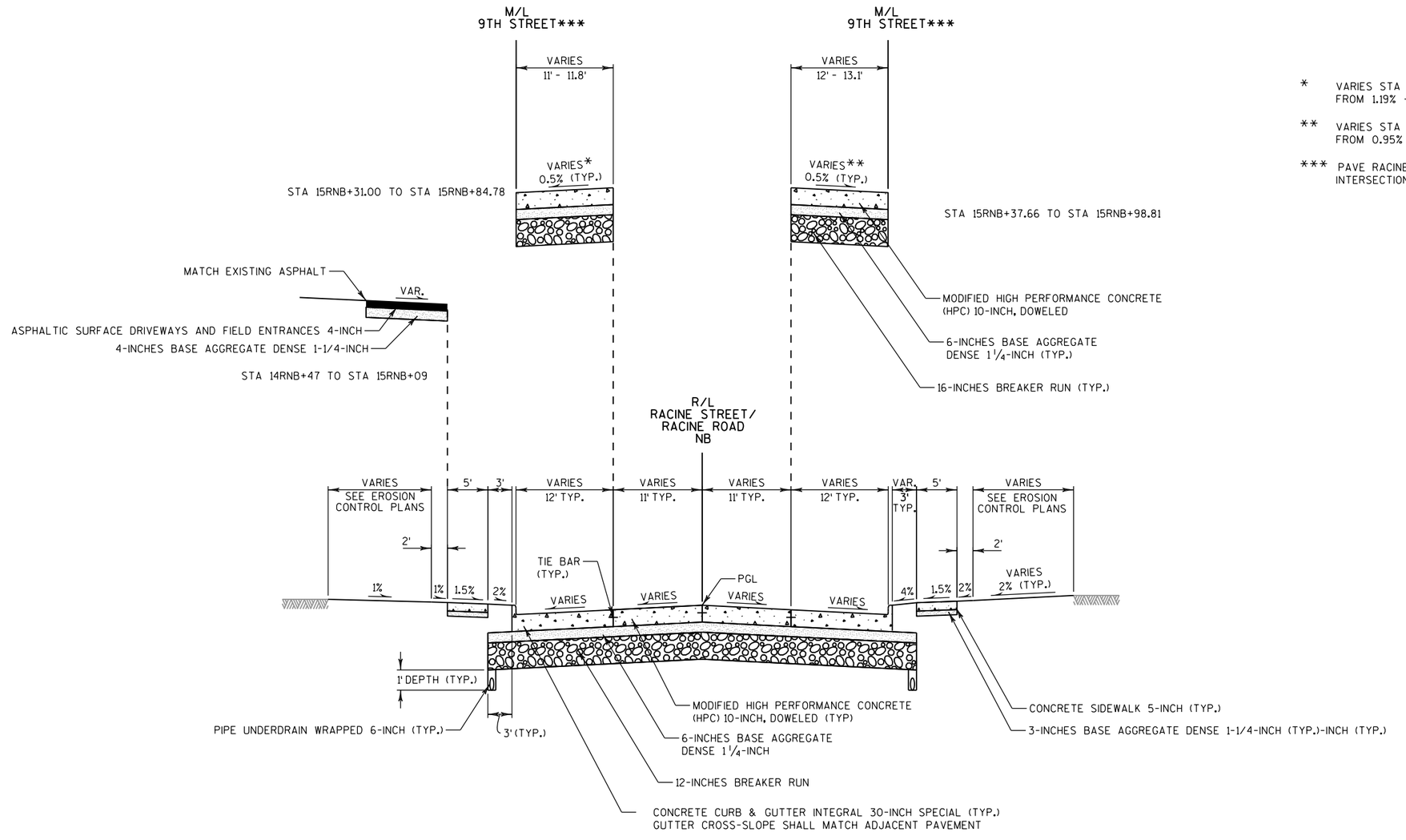


TYPICAL FINISHED SECTION

RACINE STREET

STA 12RNB+50.00 TO 13RNB+50.00

2



* VARIES STA 15RNB+31.00 TO 15RNB+50.00 FROM 1.19% - 0.50%

** VARIES STA 15RNB+37.66 TO 15RNB+50.00 FROM 0.95% - 0.50%

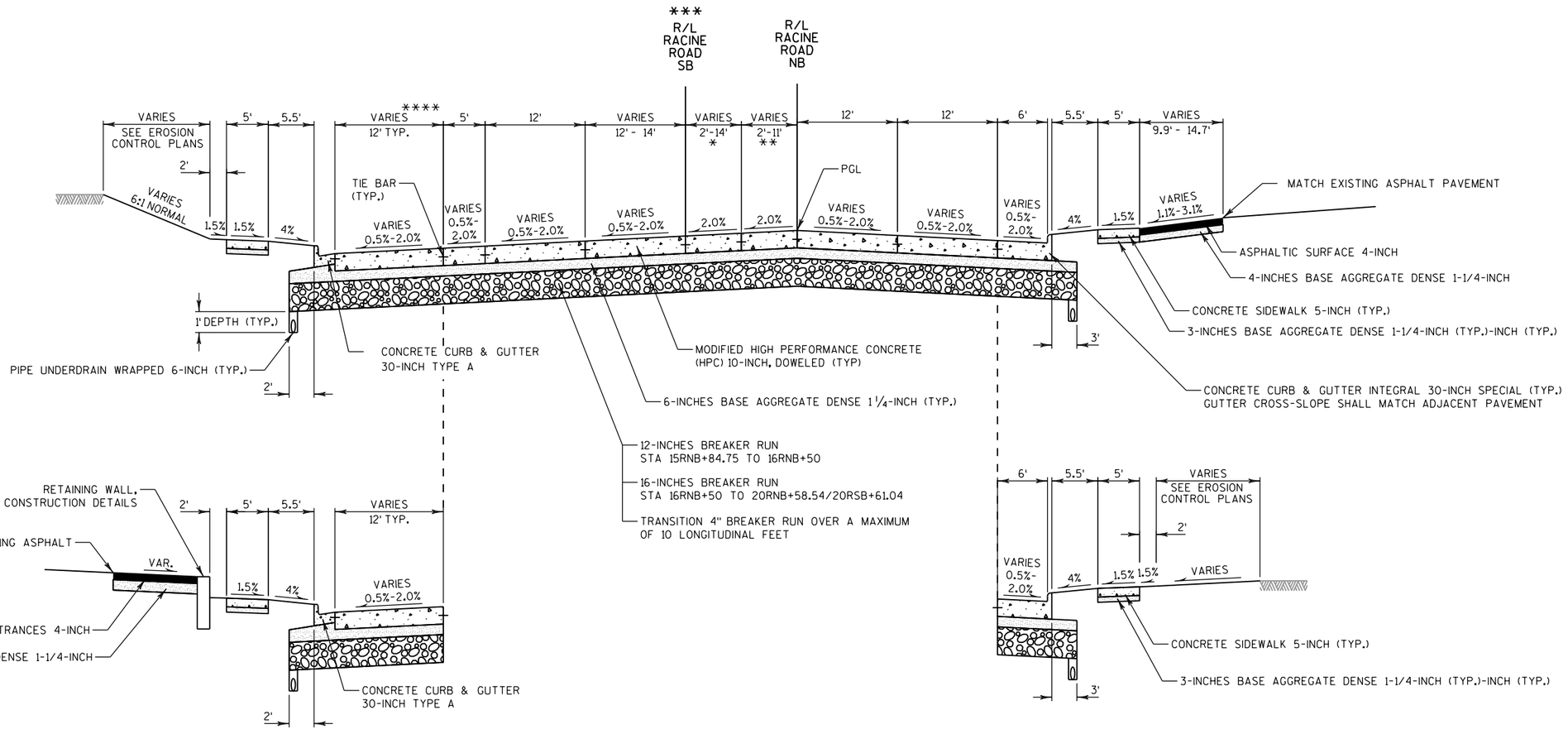
*** PAVE RACINE ROAD JOINTING THROUGH INTERSECTION

TYPICAL FINISHED SECTION

RACINE STREET / RACINE ROAD

STA 13RNB+50.00 (LT/RT)
TO STA 15RNB+84.78 (LT) / STA 15RNB+98.81 (RT)

2



STA 16RNB+12.79 TO STA 17RNB+48.14

STA 17RNB+04.00 TO STA 20RNB+58.54

* STA 18RSB+98.18 TO STA 20RSB+61.04

** STA 20RNB+07.69 TO STA 20RNB+58.54

*** RSB ALIGNMENT BEGINS AT 18RNB+42.30
18RSB+42.30 = 18RNB+42.30

**** LANE ENDS AT 19RNB+86.30
19RNB+86.30 = 19RSB+87.31

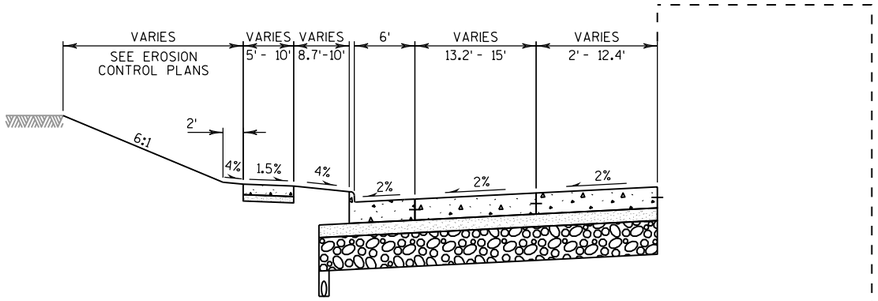
TYPICAL FINISHED SECTION

RACINE ROAD

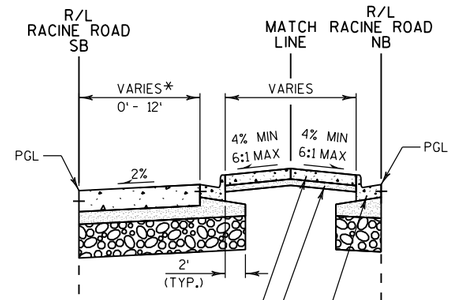
STA 15RNB+84.78 (LT) / STA 15RNB+98.81 (RT)
TO STA 20RNB+58.54, 20RSB+61.04

PROJECT NO: 1517-75-76	HWY: USH 10	COUNTY: WINNEBAGO	TYPICAL SECTIONS	SHEET 15	E

2

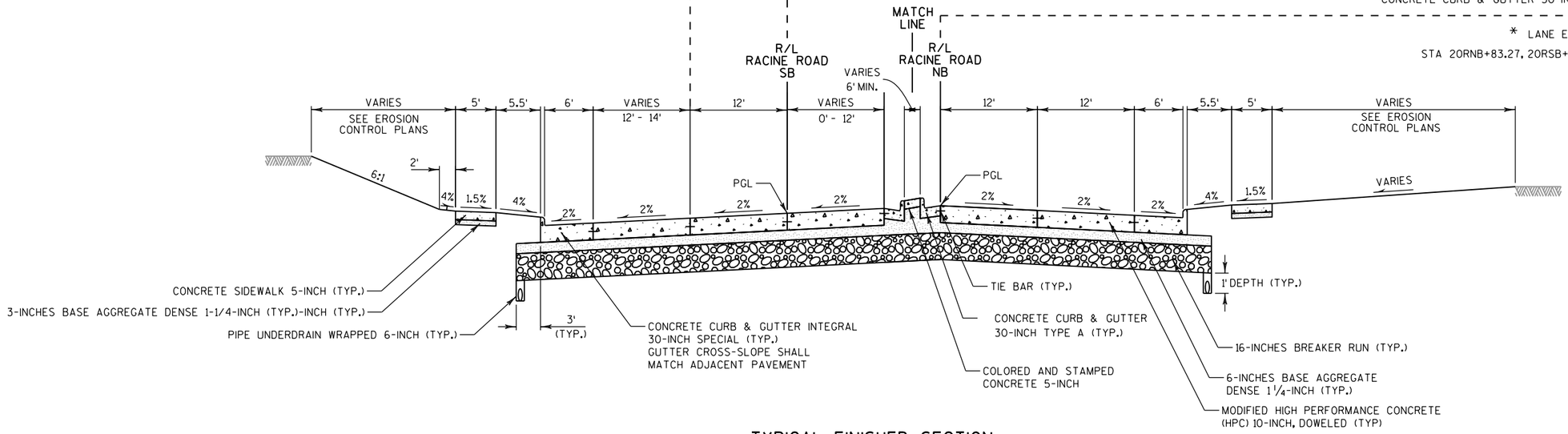


STA 22RSB+04.84 TO STA 22RSB+88.46



* LANE ENDS AT STA 22RSB+48.83

STA 20RNB+83.27, 20RSB+83.04 TO STA 22RNB+83.65, 22RSB+88.46

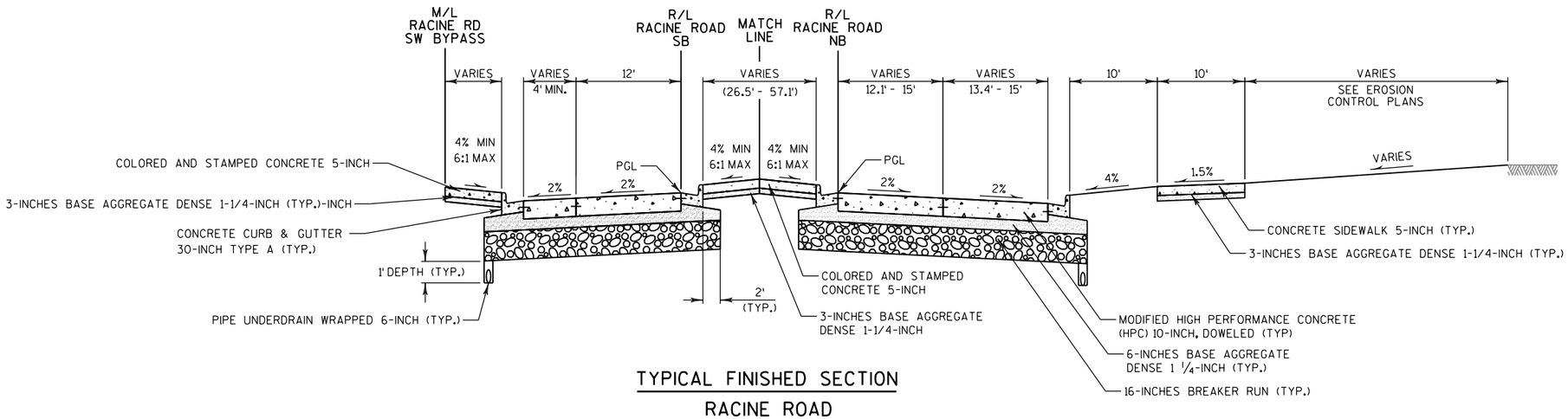


TYPICAL FINISHED SECTION

RACINE ROAD

STA 20RNB+58.54, 20RSB+61.04 TO STA 22RNB+83.65, 22RSB+88.46

2

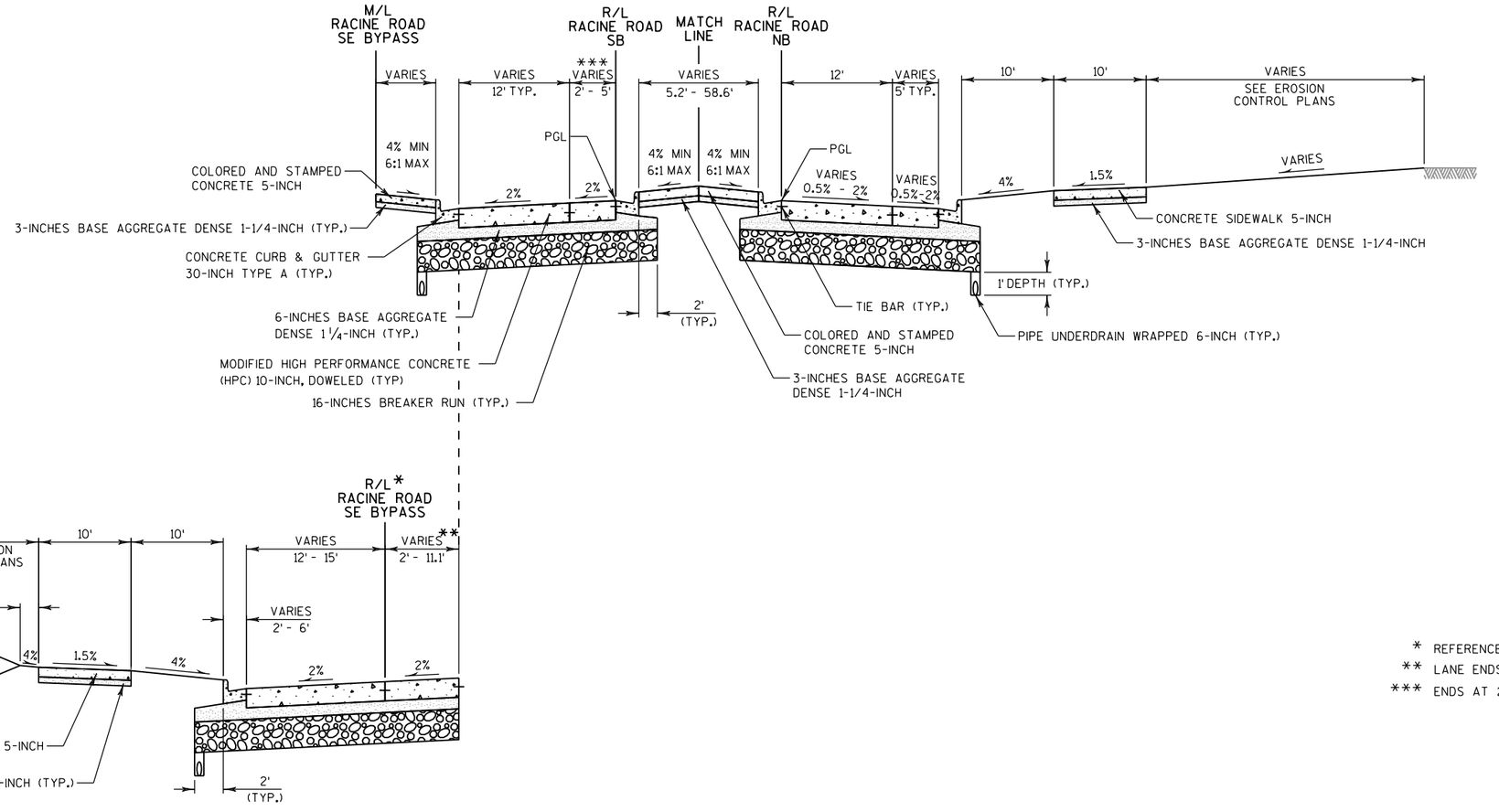


TYPICAL FINISHED SECTION

RACINE ROAD

STA 22RNB+83.65, 22RSB+88.46 TO STA 23RNB+74.27, 24RSB+06.81

PROJECT NO: 1517-75-76	HWY: USH 10	COUNTY: WINNEBAGO	TYPICAL SECTIONS	SHEET 17	E



STA 27RSB+35.87 TO STA 28RSB+64.64

* REFERENCE LINE ENDS AT 28RSB+35.13
** LANE ENDS AT STA 28RSB+16.15
*** ENDS AT 27RSB+74.18

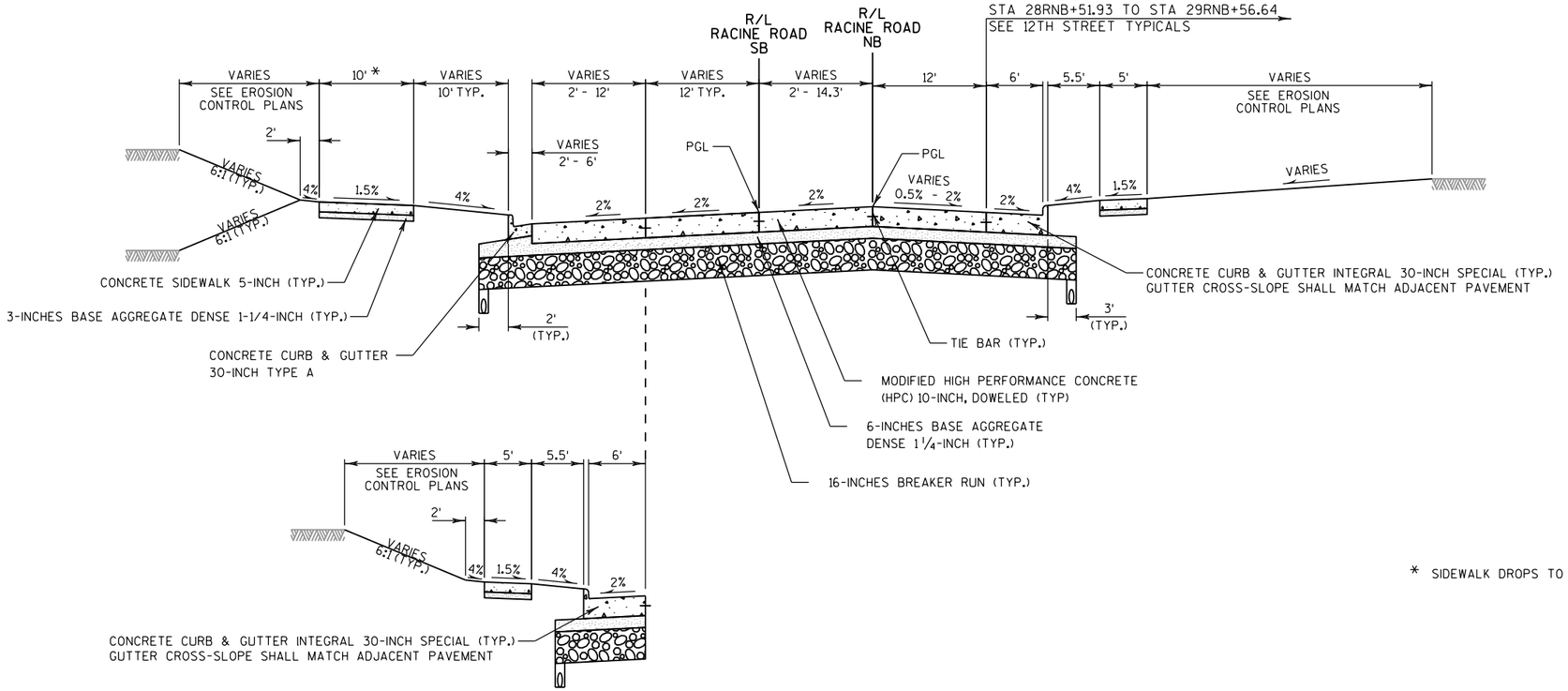
TYPICAL FINISHED SECTION

RACINE ROAD

STA 25RNB+82.21, 25RSB+97.59 TO STA 28RNB+74.39, 28RSB+64.64

PROJECT NO: 1517-75-76	HWY: USH 10	COUNTY: WINNEBAGO	TYPICAL SECTIONS	SHEET 18	E

2



* SIDEWALK DROPS TO 5' AT STA 29RSB+72.41

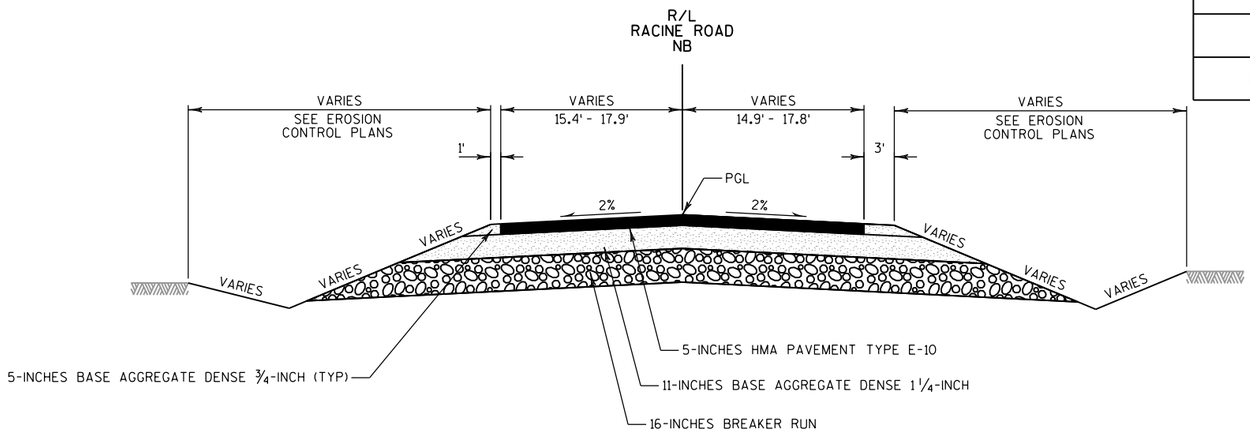
STA 29RSB+96.67 TO STA 31RSB+03.90

TYPICAL FINISHED SECTION

RACINE ROAD

STA 28RNB+74.39, 28RSB+64.64 TO STA 31RNB+12.92, 31RSB+03.90

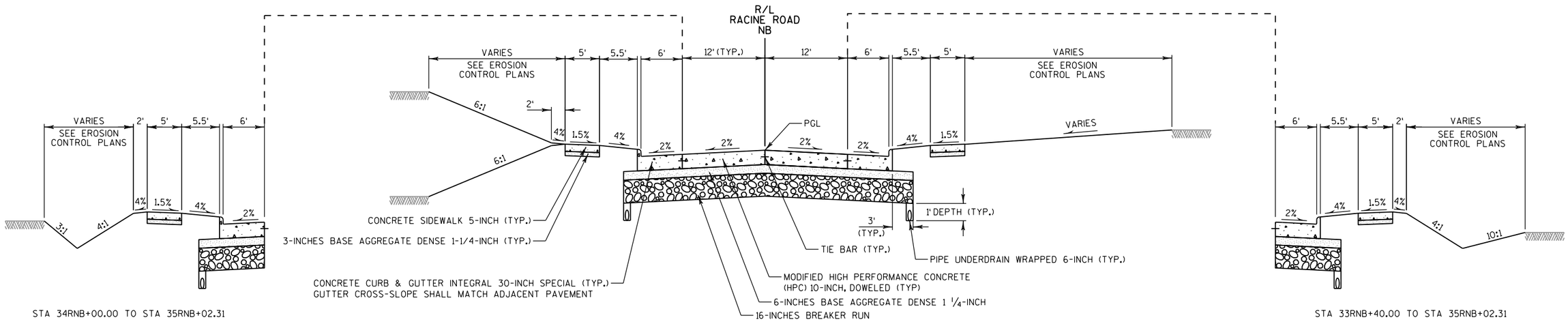
HMA PAVEMENT TYPE	TOTAL LAYER PAVEMENT THICKNESS	LAYERS	ASPHALTIC MATERIAL
E-0.3	2"	2" UPPER LAYER	PG 58-28
E-0.3	5"	1 3/4" UPPER LAYER 3 1/4" LOWER LAYER	PG 58-28
E-1	4"	1 3/4" UPPER LAYER 2 1/4" LOWER LAYER	PG 58-28
E-10	5"	1 3/4" UPPER LAYER 3 1/4" LOWER LAYER	PG 58-28



TYPICAL FINISHED SECTION

RACINE ROAD

STA 35RNB+02.31 TO 35RNB+77.04



STA 34RNB+00.00 TO STA 35RNB+02.31

STA 33RNB+40.00 TO STA 35RNB+02.31

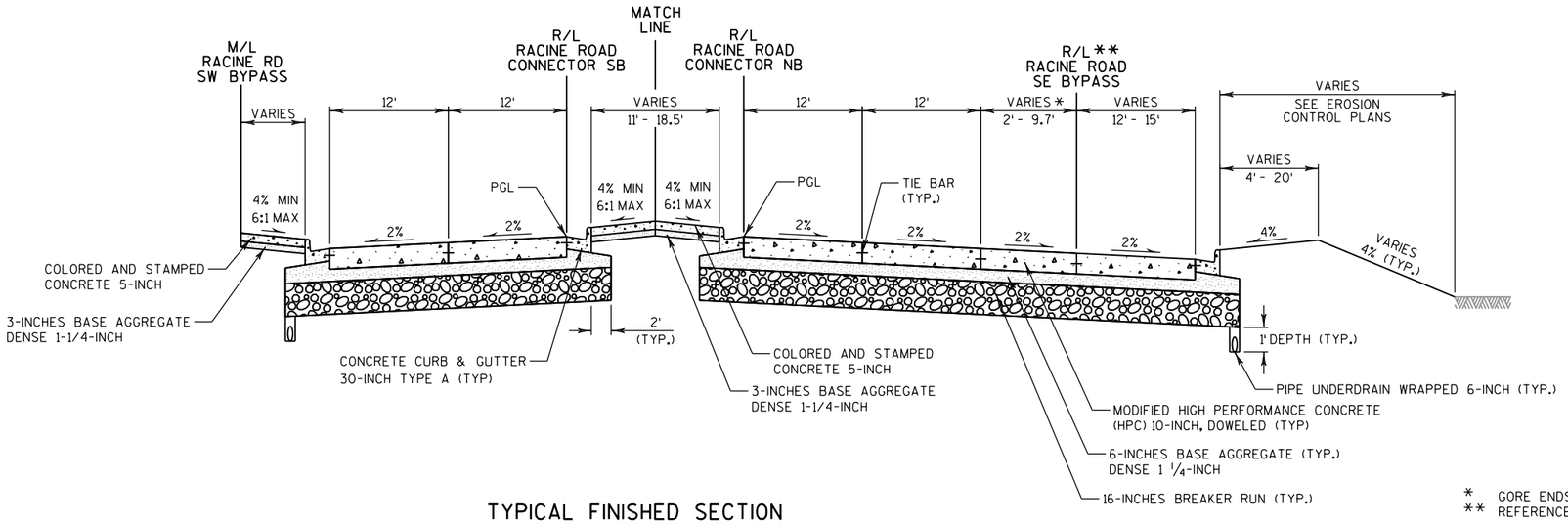
TYPICAL FINISHED SECTION

RACINE ROAD

STA 31RNB+12.92 TO STA 35RNB+02.31

PROJECT NO: 1517-75-76	HWY: USH 10	COUNTY: WINNEBAGO	TYPICAL SECTIONS	SHEET 20	E

2

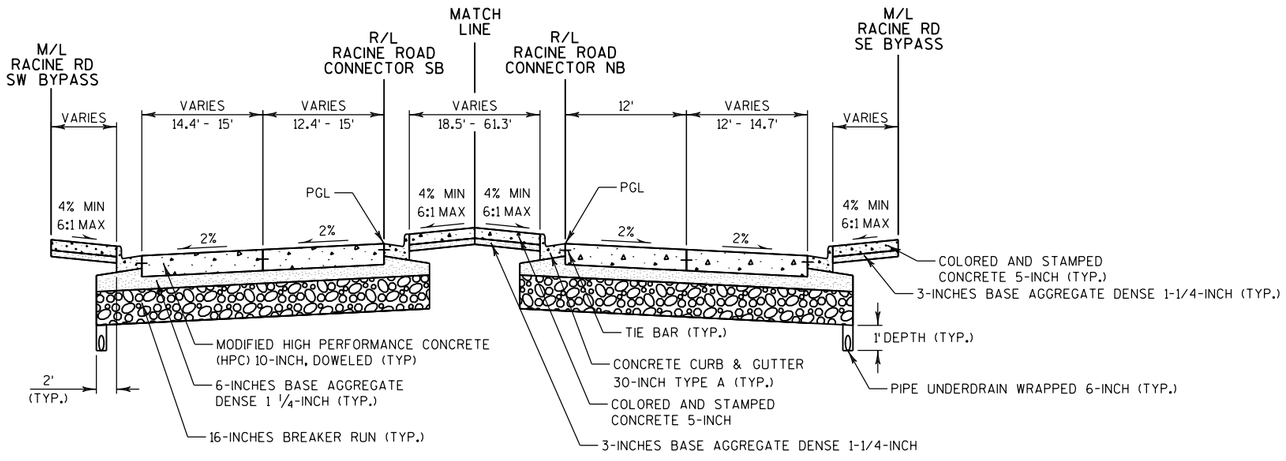


* GORE ENDS AT STA 238CNB+94.52
** REFERENCE LINE ENDS AT STA 239CNB+27.42

TYPICAL FINISHED SECTION

RACINE ROAD RAMP CONNECTOR NB/SB

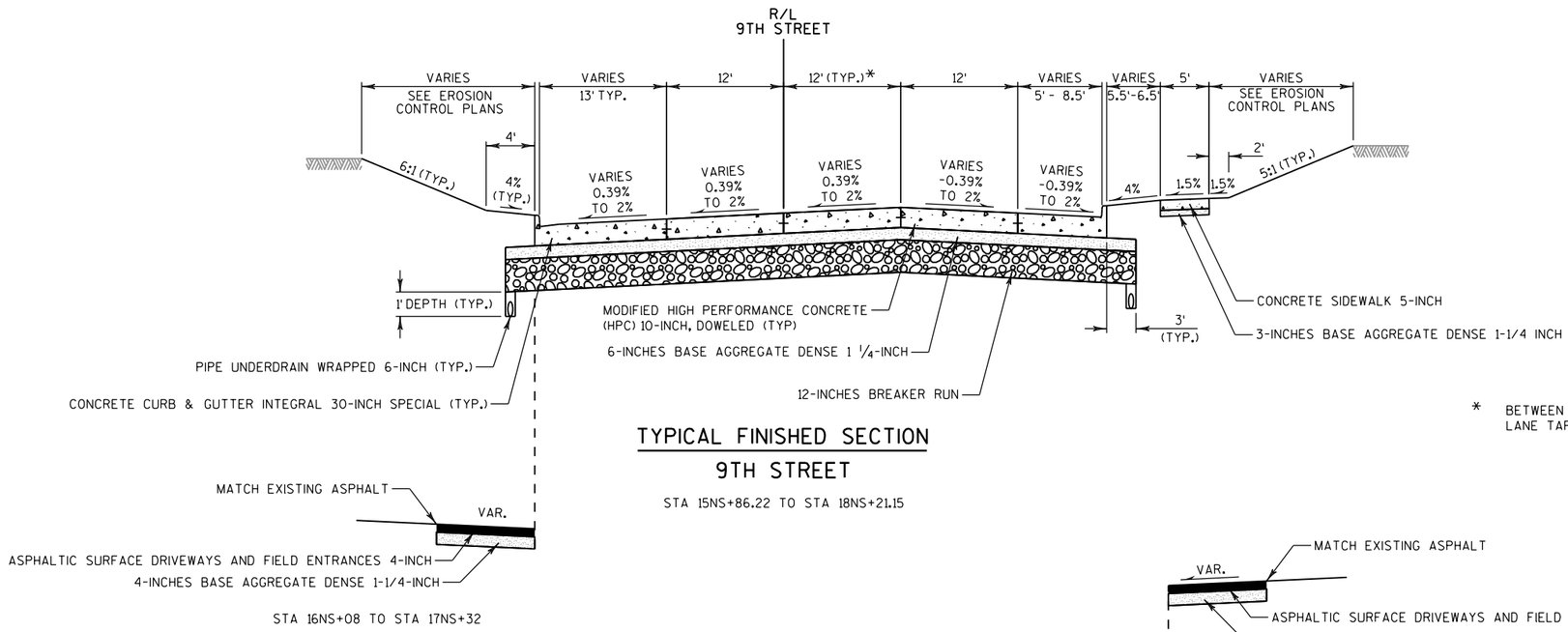
STA 237CNB+73.44 TO STA 243CNB+92.85
STA 237CSB+58.44 TO STA 243CSB+82.99



TYPICAL FINISHED SECTION

RACINE ROAD RAMP CONNECTOR NB/SB

STA 236CNB+63.13 TO STA 237CNB+73.44
STA 236CSB+64.79 TO STA 237CSB+58.44

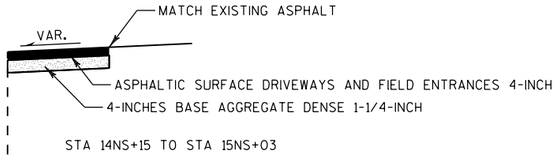


* BETWEEN STA 17NS+15.16 TO 18NS+21.15
LANE TAPERS FROM 12' TO 2'

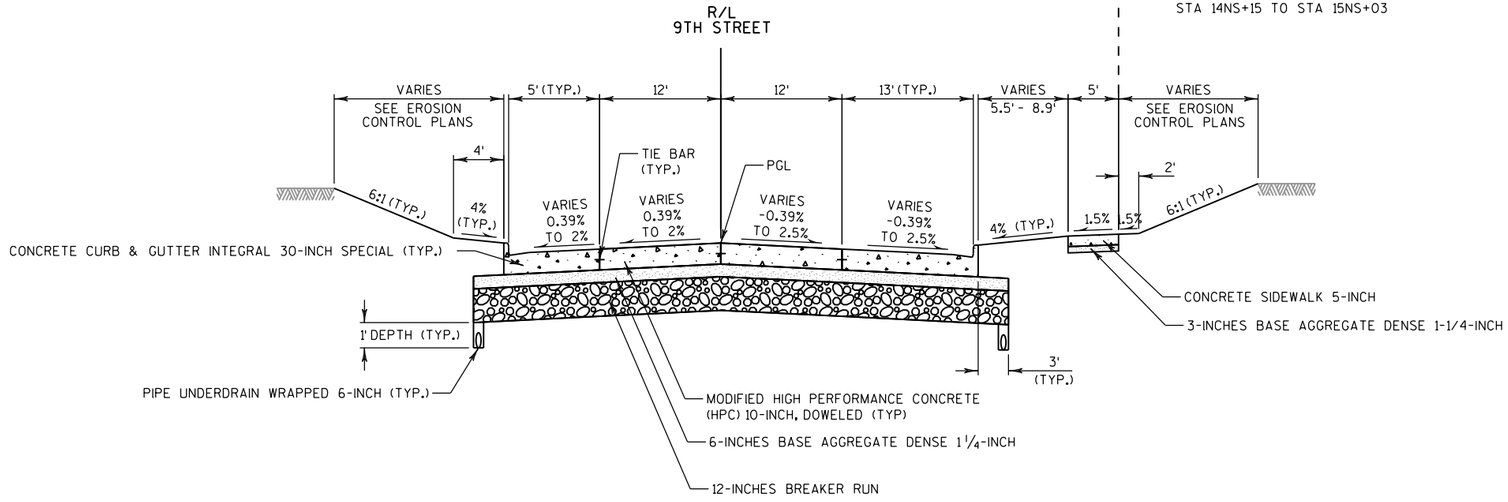
TYPICAL FINISHED SECTION
9TH STREET

STA 15NS+86.22 TO STA 18NS+21.15

STA 16NS+08 TO STA 17NS+32



STA 14NS+15 TO STA 15NS+03

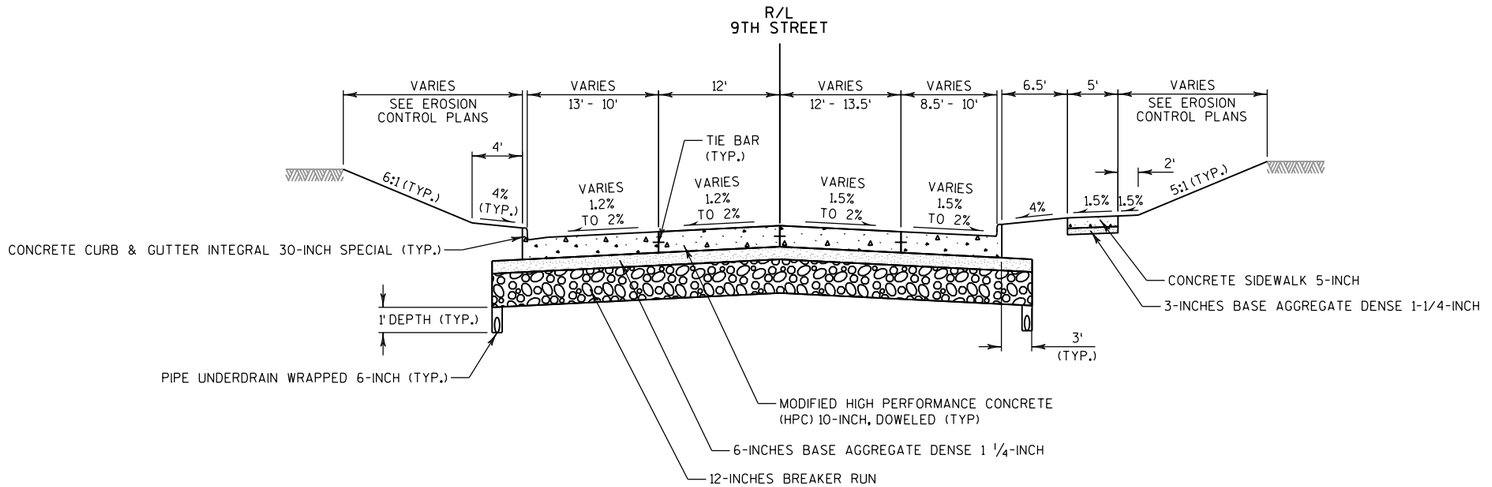


TYPICAL FINISHED SECTION
9TH STREET

STA 13NS+31.00 TO STA 15NS+36.59

PROJECT NO: 1517-75-76	HWY: USH 10	COUNTY: WINNEBAGO	TYPICAL SECTIONS	SHEET 22	E

2



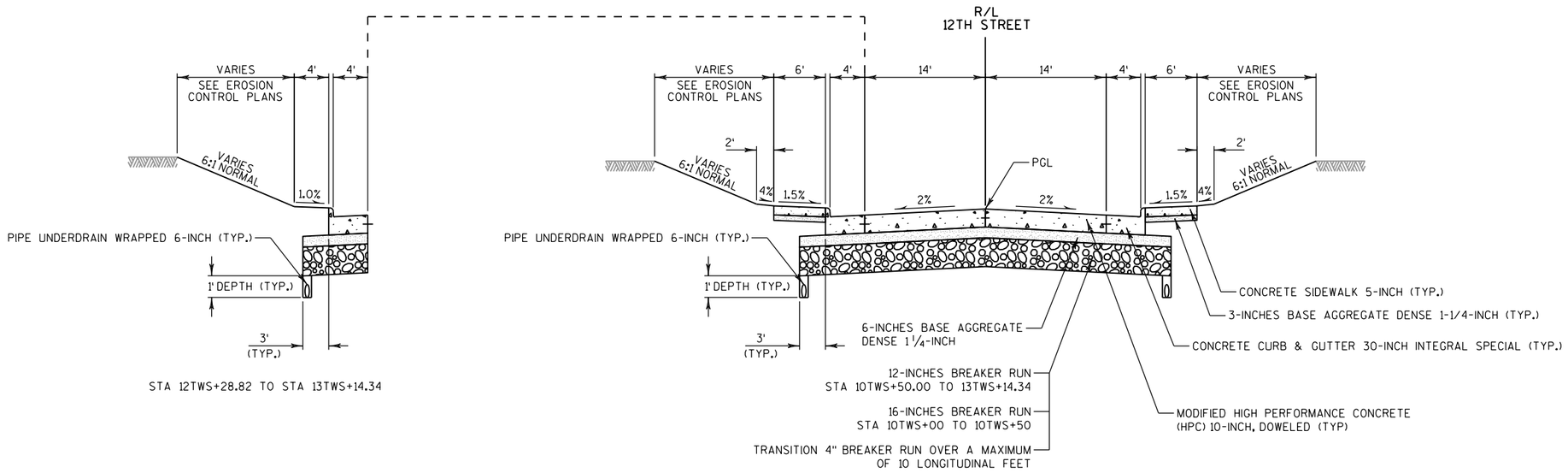
TYPICAL FINISHED SECTION

9TH STREET

STA 18NS+21.15 TO STA 19NS+20.00

PROJECT NO: 1517-75-76	HWY: USH 10	COUNTY: WINNEBAGO	TYPICAL SECTIONS	SHEET 23	E

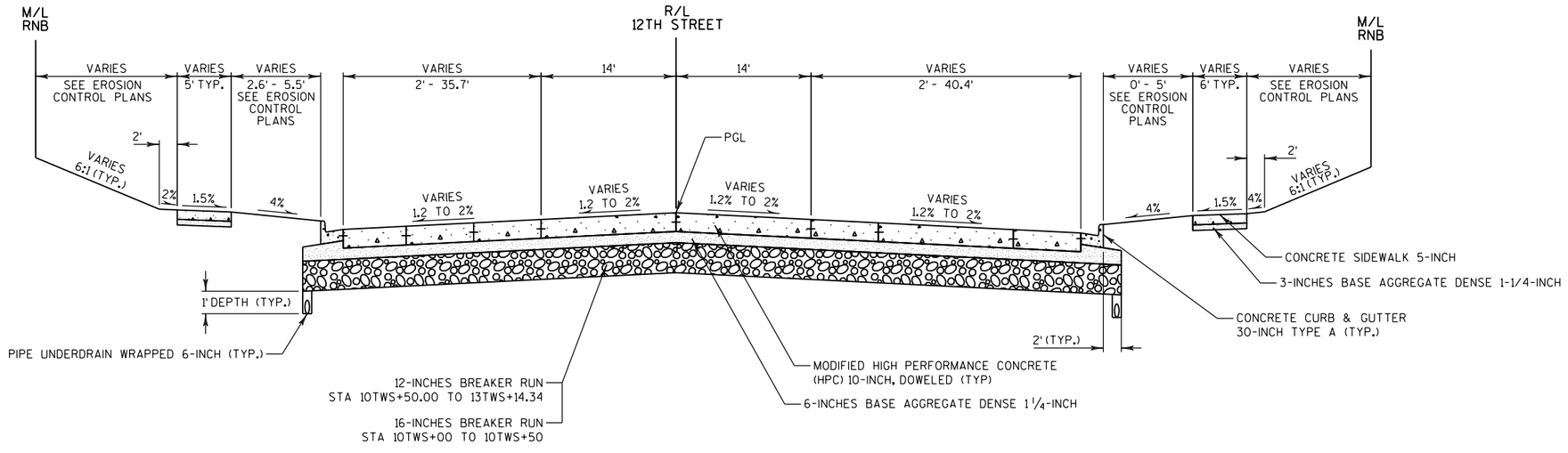
2



STA 12TWS+28.82 TO STA 13TWS+14.34

TYPICAL FINISHED SECTION
12TH STREET

STA 10TWS+95.17 TO STA 13TWS+14.34

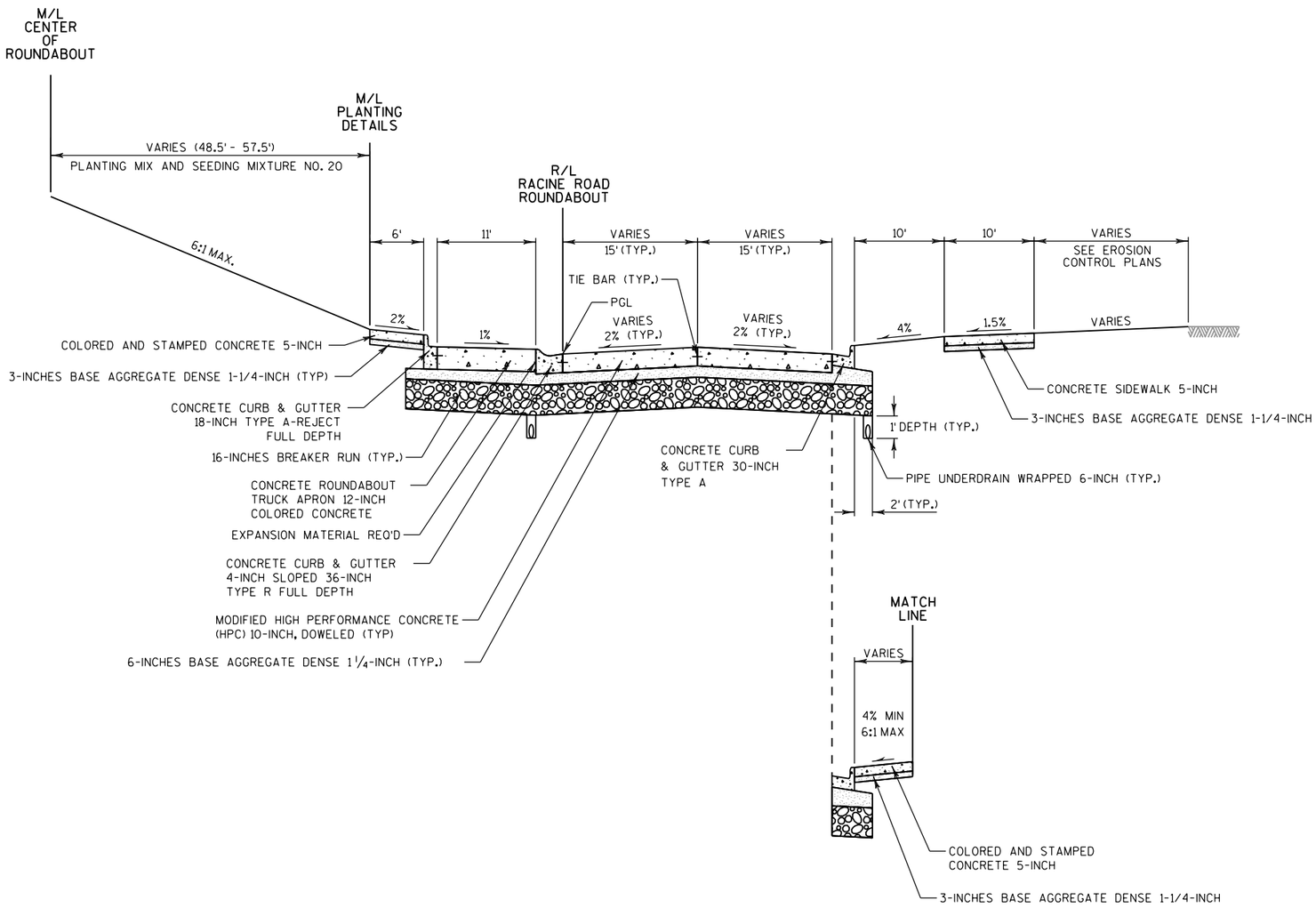


TYPICAL FINISHED SECTION
12TH STREET

STA 10TWS+17.00 TO STA 10TWS+95.17

PROJECT NO: 1517-75-76	HWY: USH 10	COUNTY: WINNEBAGO	TYPICAL SECTIONS	SHEET 24	E

2



STA 11RRT+68.75 TO STA 12RRT+10.93

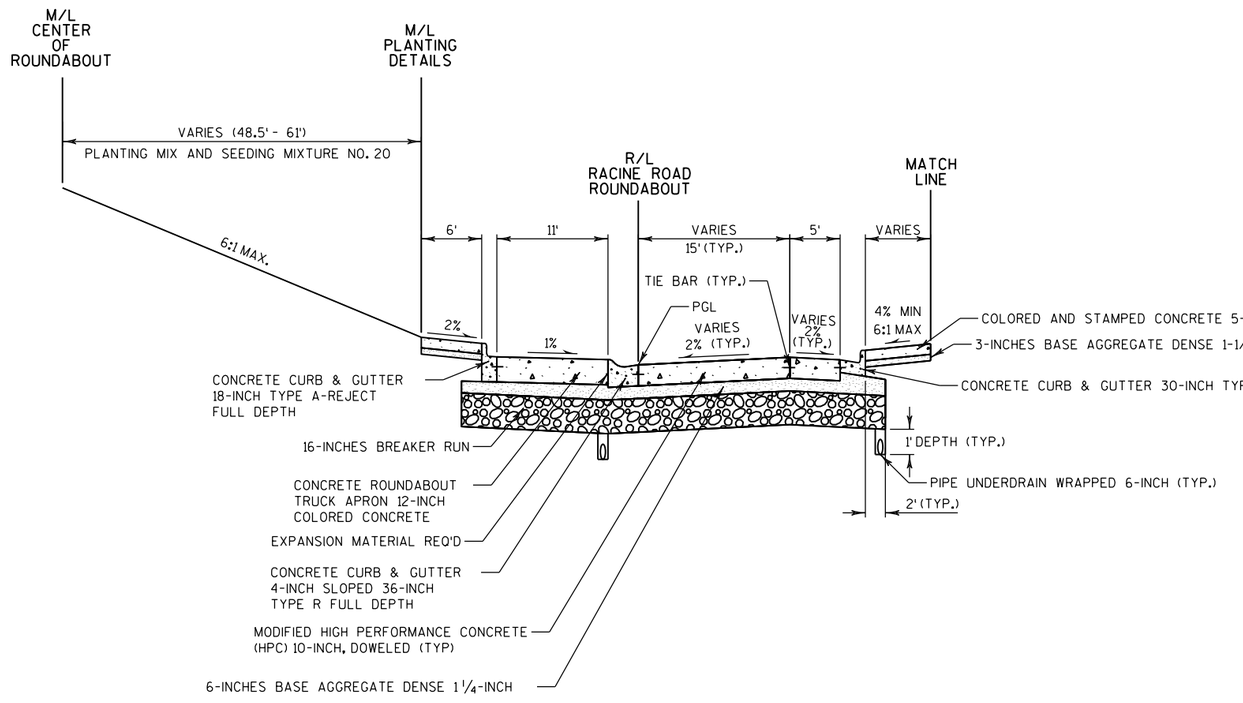
TYPICAL FINISHED SECTION

RACINE ROAD ROUNDABOUT

STA 10RRT+00.00 TO STA 12RRT+76.88

PROJECT NO: 1517-75-76	HWY: USH 10	COUNTY: WINNEBAGO	TYPICAL SECTIONS	SHEET 25	E

2

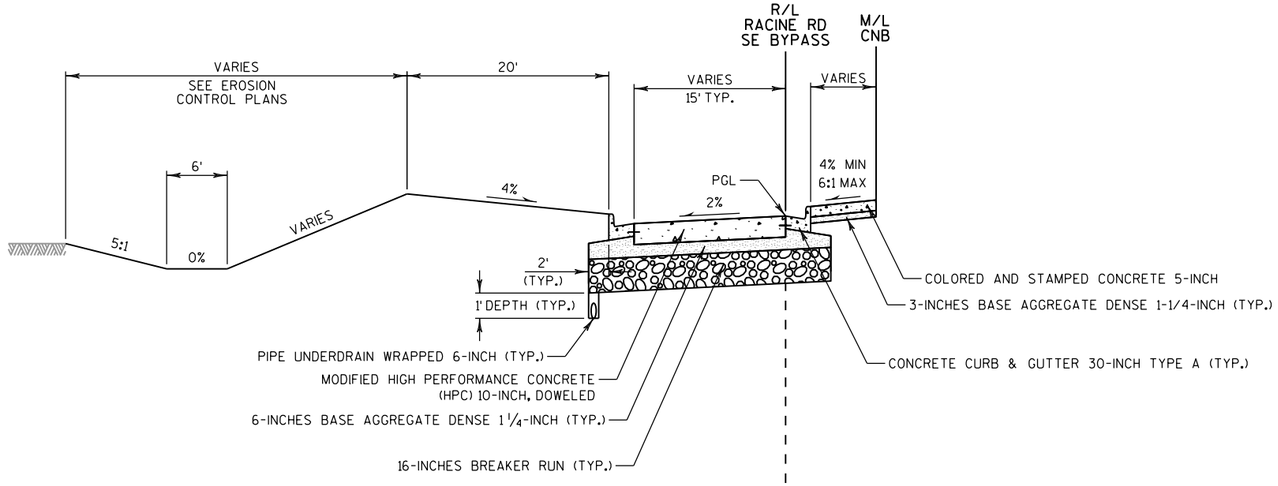


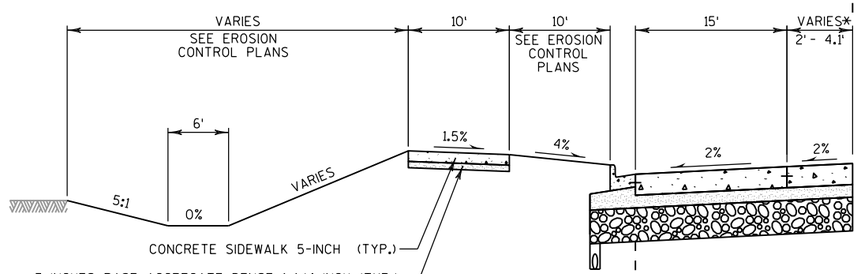
TYPICAL FINISHED SECTION

RACINE ROAD ROUNDABOUT

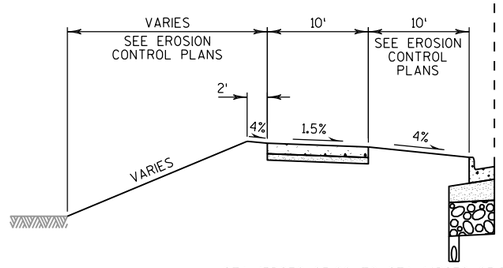
STA 12RRT+76.88 TO STA 14RRT+60.85

2





STA 11RSEC+96.85 TO STA 13RSEC+65.00



STA 13RSEC+65.00 TO STA 14RSEC+03.70

* LANE BEGINS STA 12RSEC+29.89, ENDS STA 13RSEC+03.40

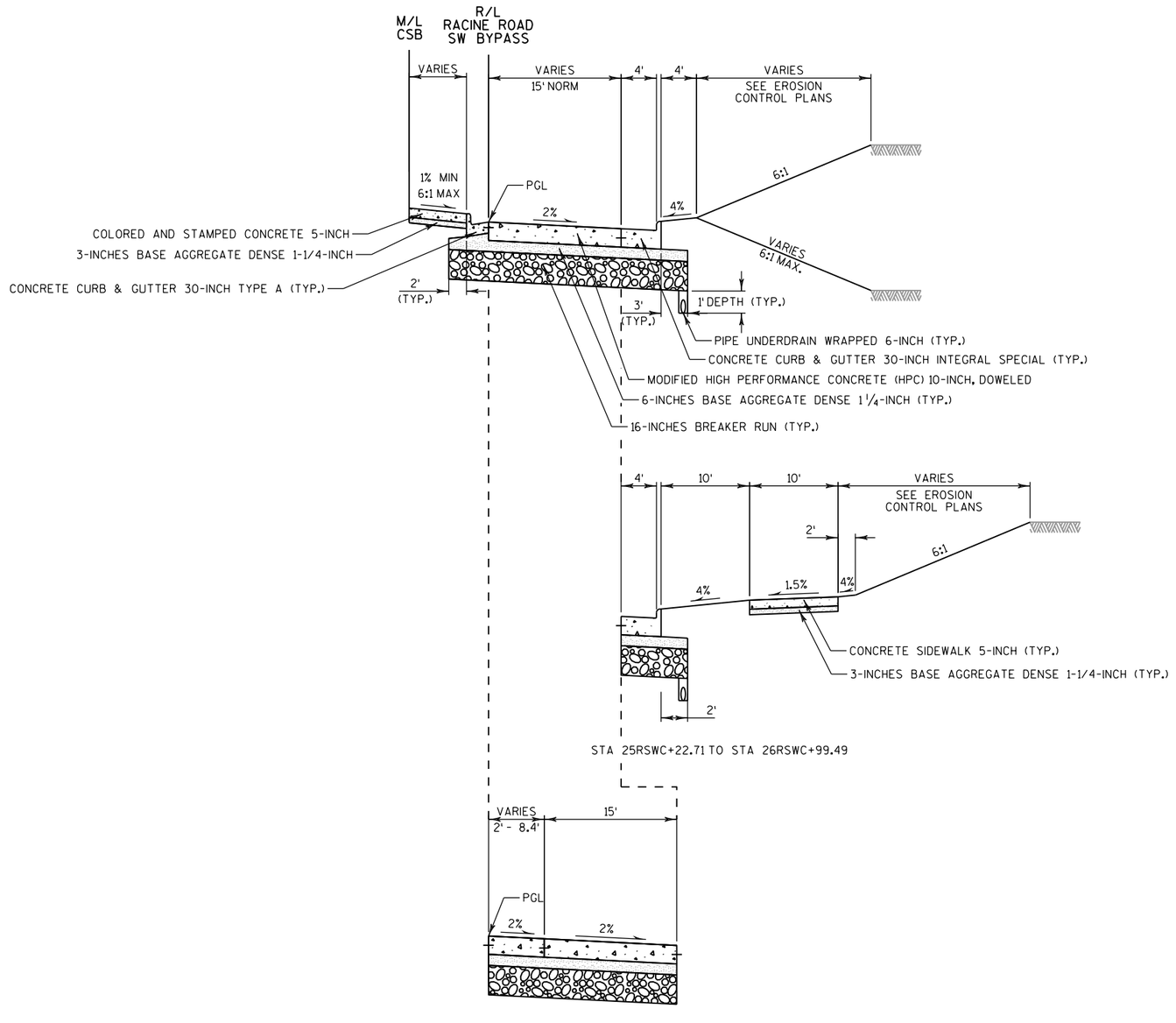
TYPICAL FINISHED SECTION

RACINE ROAD SE RAMP BYPASS

STA 11RSEC+52.06 TO 14RSEC+03.70

PROJECT NO: 1517-75-76	HWY: USH 10	COUNTY: WINNEBAGO	TYPICAL SECTIONS	SHEET 27	E

2

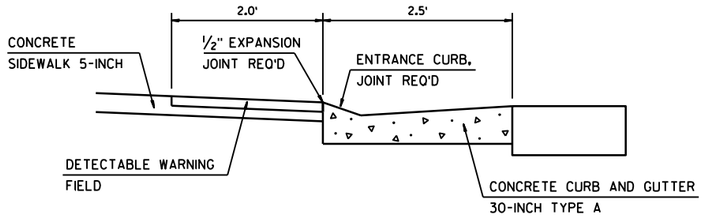


TYPICAL FINISHED SECTION

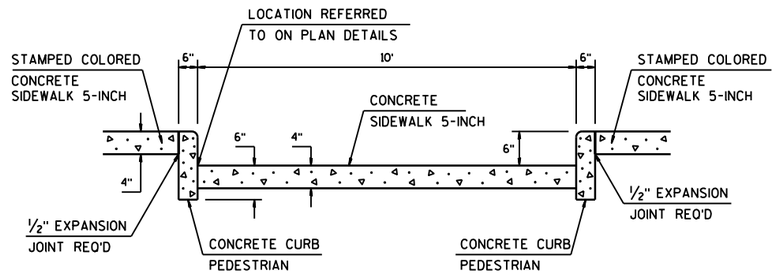
RACINE ROAD SW RAMP BYPASS

STA 18RSWC+63.37 TO 26RSWC+99.49

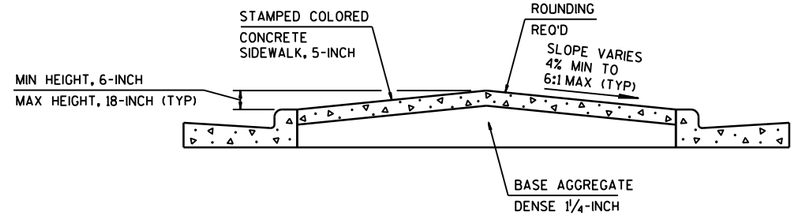
PROJECT NO: 1517-75-76	HWY: USH 10	COUNTY: WINNEBAGO	TYPICAL SECTIONS	SHEET 28	E



SECTION A-A



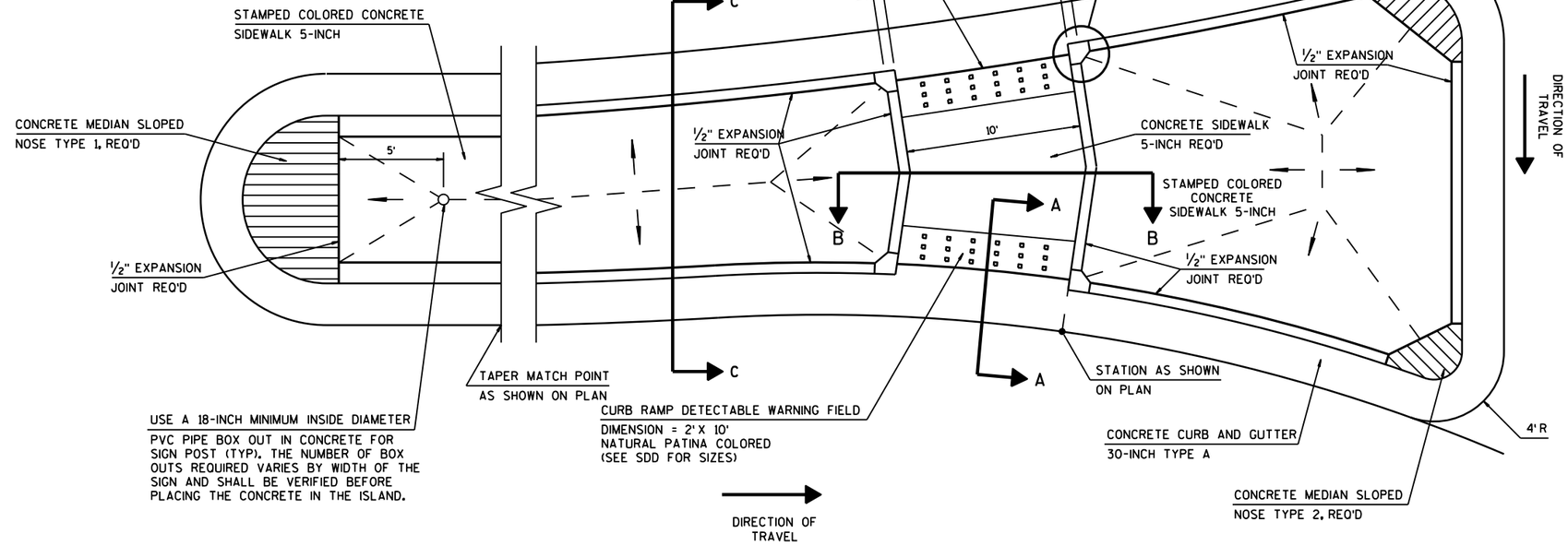
SECTION B-B



SECTION C-C

ISLAND SIGN LOCATION DETAIL (TYP)

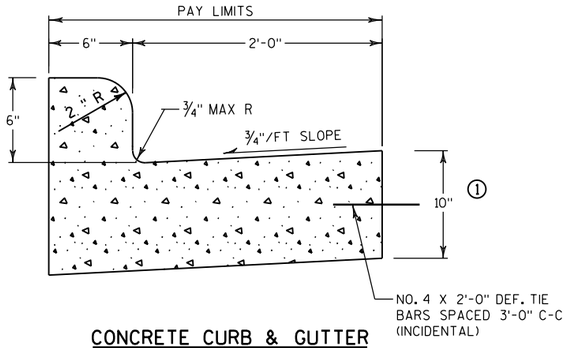
NOTIFY THE REGIONAL TRAFFIC UNIT AT 920-492-5653 A MINIMUM OF TWO WEEKS PRIOR TO THE NEED FOR SIGN PLACEMENT TO ALLOW FOR STAKING OF ANY PERMANENT SIGNING REQUIRED ON THE PROJECT.



NOTE: INSTALL TRANSITION NOSE. (INCIDENTAL TO OTHER PAY ITEMS.) DO NOT MARK TRANSITION NOSE.

— DRAINAGE BREAK POINT
◄— DIRECTION OF DRAINAGE

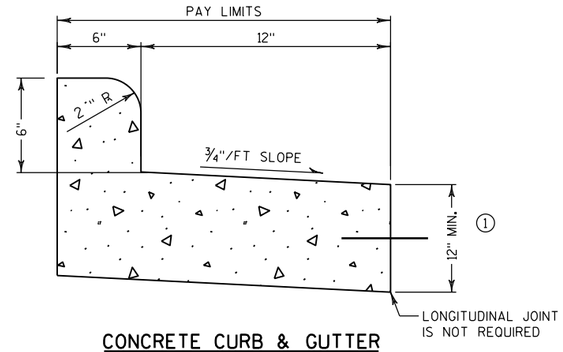
SPLITTER ISLAND DETAIL



CONCRETE CURB & GUTTER
30-INCH TYPE A

NOTE

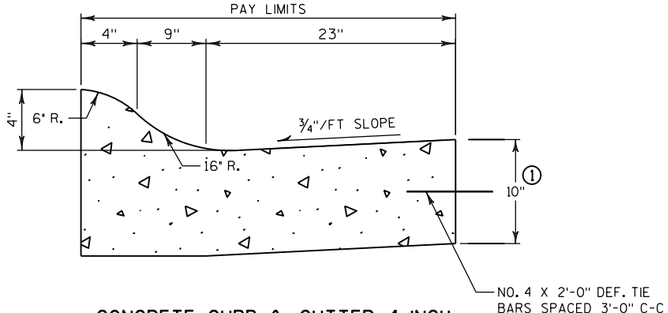
1. THE BOTTOM OF CURB AND GUTTER MAY BE CONSTRUCTED EITHER LEVEL OR PARALLEL TO THE SLOPE OF THE SUBGRADE OR BASE COURSE.



CONCRETE CURB & GUTTER
18-INCH TYPE A
REJECT FULL DEPTH

NOTE

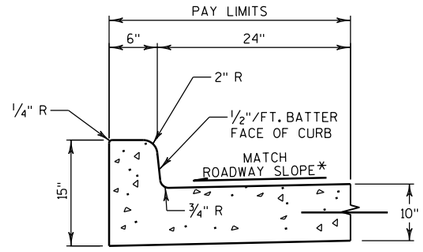
1. THE BOTTOM OF CURB AND GUTTER MAY BE CONSTRUCTED EITHER LEVEL OR PARALLEL TO THE SLOPE OF THE SUBGRADE OR BASE COURSE PROVIDED THAT THE GUTTER THICKNESS IS EQUAL TO THE ADJACENT PAVEMENT DEPTH.



CONCRETE CURB & GUTTER 4-INCH
SLOPED 36-INCH TYPE R FULL DEPTH

NOTE

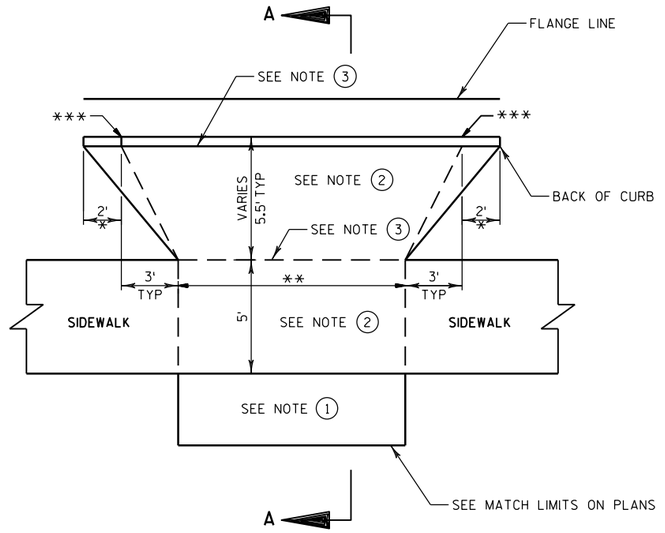
1. THE BOTTOM OF CURB AND GUTTER MAY BE CONSTRUCTED EITHER LEVEL OR PARALLEL TO THE SLOPE OF THE SUBGRADE OR BASE COURSE.



CONCRETE CURB AND GUTTER INTEGRAL 30-INCH SPECIAL

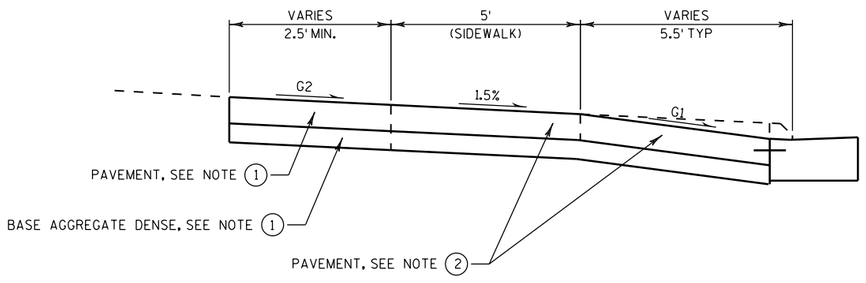
* SEE PAVING GRADE DETAILS

2



PLAN VIEW

* TAPER CURB HEAD
** SEE PAVING DETAILS FOR WIDTH REQ'D
*** STATION SHOWN ON PAVING DETAILS



SECTION A-A

URBAN DRIVEWAY WITH SIDEWALK

NOTES:

(1) DRIVEWAY SURFACE BEYOND THE BACK OF SIDEWALK TO BE REPLACED IN-KIND WITH MINIMUM SECTION OF:

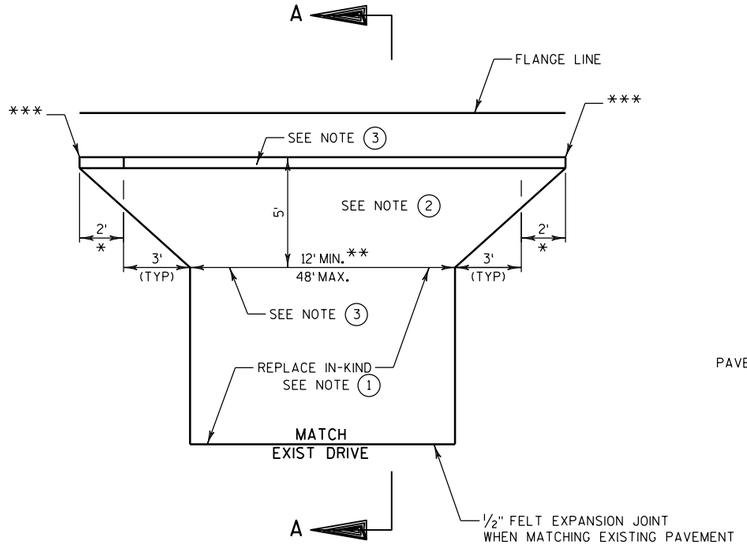
ASPHALTIC SURFACE DRIVEWAYS AND FIELD ENTRANCES (4-INCH) OVER BASE AGGREGATE DENSE 1-1/4-INCH (4-INCH)
OR
CONCRETE DRIVEWAY 6-INCH OVER BASE AGGREGATE DENSE 1-1/4-INCH (4-INCH)
OR
BASE AGGREGATE DENSE 3/4-INCH (6-INCH)

(2) ALL URBAN DRIVEWAYS FROM BACK OF CURB TO THE BACK OF SIDEWALK TO BE PAID FOR AS CONCRETE DRIVEWAY 6-INCH AND 4-INCHES BASE AGGREGATE DENSE 1-1/4 INCH

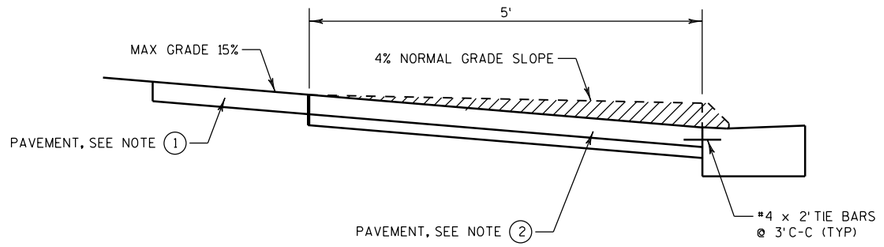
(3) 1/2" EXPANSION JOINT REQUIRED, INCIDENTAL TO THE BID ITEM "CONCRETE DRIVEWAY 6-INCH"

MAXIMUM DIFFERENCE BETWEEN G1 AND G2 = 14%
MAXIMUM SLOPE FOR G1 AND G2 = 10%

2



PLAN VIEW



SECTION A-A

NOTES:

(1) DRIVEWAY SURFACE BEYOND APRON TO BE REPLACED IN-KIND WITH MINIMUM SECTION OF:

ASPHALTIC SURFACE (4-INCH) DRIVEWAYS AND FIELD ENTRANCES OVER
BASE AGGREGATE DENSE 1-1/4-INCH (4-INCH)
OR
ASPHALTIC SURFACE (4-INCH) OVER
BASE AGGREGATE DENSE 1-1/4-INCH (4-INCH)
OR
CONCRETE DRIVEWAY 6-INCH OVER BASE AGGREGATE DENSE 1-1/4-INCH (4-INCH)
OR
BASE AGGREGATE DENSE 3/4-INCH (6-INCH)

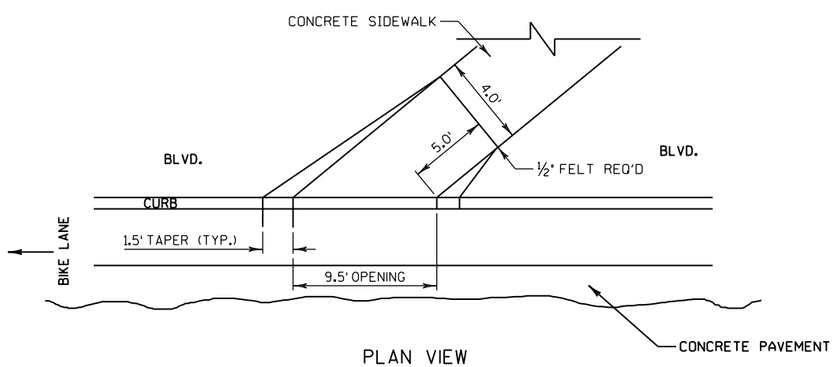
(2) ALL URBAN DRIVEWAYS TO BACK OF APRON TO BE PAID FOR AS CONCRETE DRIVEWAY 6-INCH OVER BASE AGGREGATE DENSE 1-1/4 INCH (4-INCHES)

(3) 1/2" EXPANSION JOINT REQUIRED, INCIDENTAL TO THE BID ITEM "CONCRETE DRIVEWAY 6-INCH"

* TAPER CURB HEAD
** SEE PAVING DETAILS FOR WIDTH REQ'D
*** STATION SHOWN ON PAVING DETAILS

URBAN DRIVEWAY

FOR USE WHEN NO SIDEWALK IS PRESENT



PLAN VIEW

SIDEWALK CONNECTION TO BIKE PATH

2

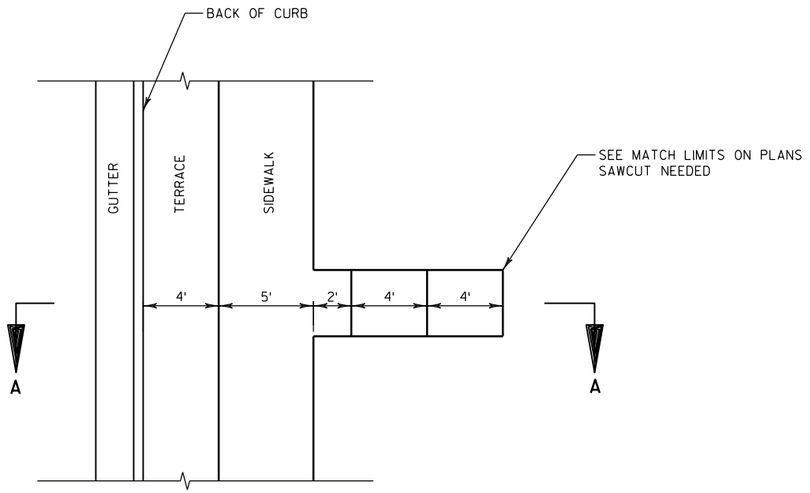
NOTES

1) CONCRETE STEP TO BE PAID AS 602.1500 'CONCRETE STEP'

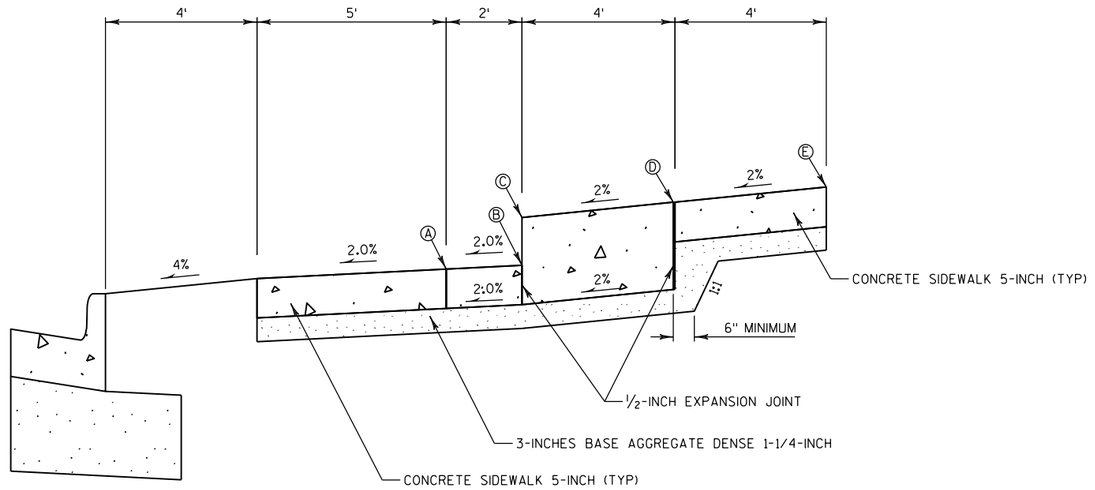
2) EXPANSION MATERIAL INCIDENTAL TO THE PAY ITEM 'CONCRETE STEP'

3) CONCRETE STEP RISE IS TO NOT EXCEED 7-INCHES

POINT	ELEVATION
A	761.17
B	761.21
C	761.80
D	761.88
E	761.96



PLAN VIEW

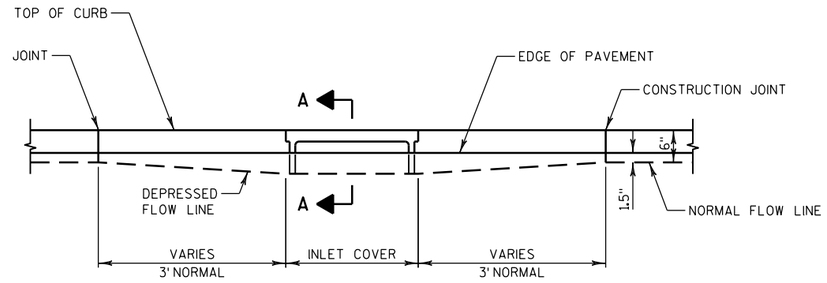


SECTION A-A

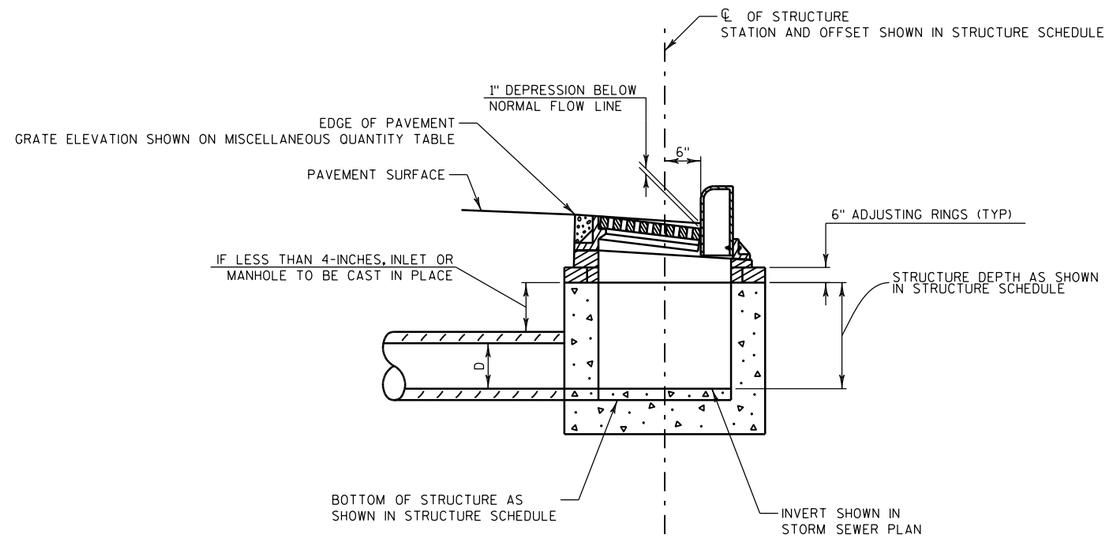
STEP IN SIDEWALK TO RESIDENCE AT 13RNB+39, RT

PROJECT NO: 1517-75-76	HWY: USH 10	COUNTY: WINNEBAGO	CONSTRUCTION DETAIL	SHEET 33	E

2



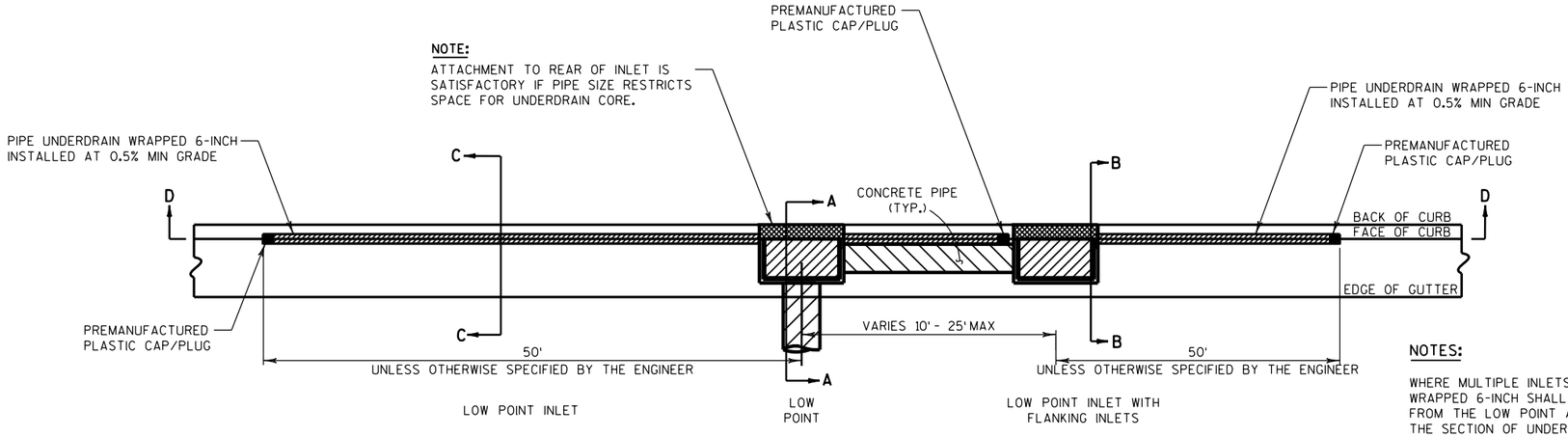
ELEVATION



SECTION A-A

DETAIL OF CURB AND GUTTER AT INLETS

2



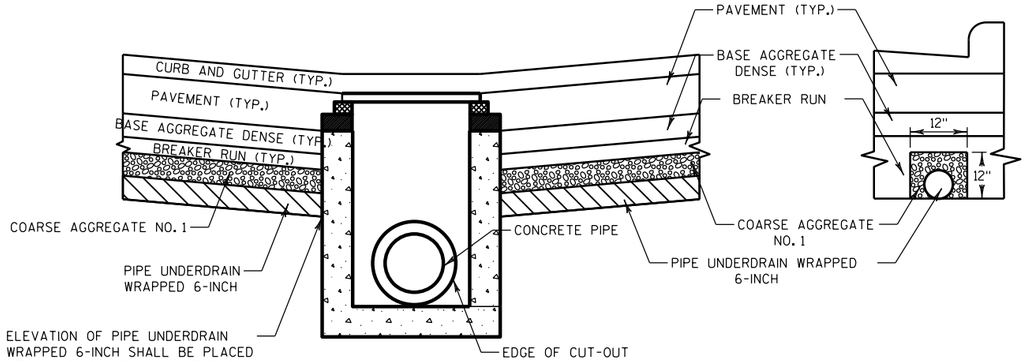
TOP VIEW

SPLIT DETAIL

INLET CONFIGURATION
WITH UNDERDRAIN AT LOW POINTS

NOTES:

WHERE MULTIPLE INLETS ARE USED AT LOW POINTS, PIPE UNDERDRAIN WRAPPED 6-INCH SHALL BE INSTALLED 50 FEET TO EITHER DIRECTION FROM THE LOW POINT AT A MINIMUM POSITIVE GRADE OF 0.5%. THE SECTION OF UNDERDRAIN BETWEEN THE CENTER AND OUTER INLETS SHALL BE PLACED TIGHT TO THE OUTER INLET, CAPPED WITH A PREMANUFACTURED PLASTIC CAP OR PLUG, AND LAID AS SPECIFIED ABOVE TO THE CENTER INLET.



ELEVATION OF PIPE UNDERDRAIN WRAPPED 6-INCH SHALL BE PLACED AT A MINIMUM OF 6" ABOVE THE INVERT OF STORM SEWER PIPE. UNDERDRAIN PIPE INVERT NOT NECESSARILY AT BOTTOM OF SELECT CRUSHED MATERIAL. ELEVATIONS TO BE DETERMINED BY ENGINEER IN FIELD.

SECTION D-D

CROSS-SECTION VIEW

TYPICAL INLET CONFIGURATION
WITH UNDERDRAIN CORED
INTO WALL WITH NO PIPE

FOUND AT LOW POINTS
WITHOUT FLANKING INLETS

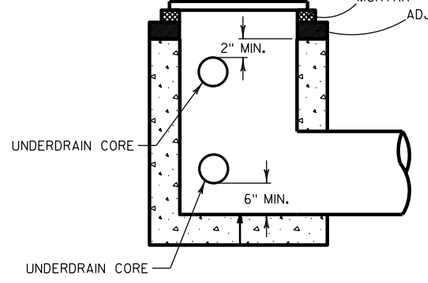
SECTION C-C

NOTES:

(1) BOTTOM OF PIPE SHALL BE PLACED AT THE BOTTOM OF COARSE AGGREGATE NO. 1 MATERIAL.

(2) BOTTOM OF COARSE AGGREGATE NO. 1 MATERIAL IS NOT NECESSARILY THE BOTTOM OF THE SELECT CRUSHED MATERIAL.

(3) ELEVATIONS TO BE DETERMINED BY ENGINEER IN FIELD.



SECTION A-A

CROSS-SECTION VIEW

TYPICAL INLET CONFIGURATION
WITH UNDERDRAIN CORED
INTO WALL WITH CROSSPIPE ONLY

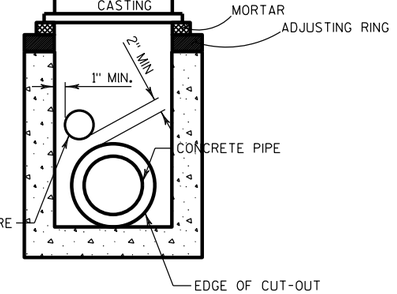
FOUND AT LOW POINTS
WITHOUT FLANKING INLETS

NOTES:

(1) BOTTOM OF CORE PLACED A MINIMUM OF 6" ABOVE THE INVERT OF THE CROSS PIPE.

(2) TOP OF CORE HOLES WILL BE A MINIMUM OF 2" BELOW THE TOP OF THE INLET STRUCTURES (BOTTOM OF RINGS)

(3) DRAIN TILES SHALL NOT BE ALLOWED IN THE RING OF THE STRUCTURE OF INLETS OR SEWER ACCESS STRUCTURES



SECTION B-B

CROSS-SECTION VIEW

TYPICAL INLET IN SUMP
CONDITION WITH
UNDERDRAIN CORED
INTO WALL WITH PIPE

FOUND AT FLANKING INLETS
NEAR LOWPOINTS

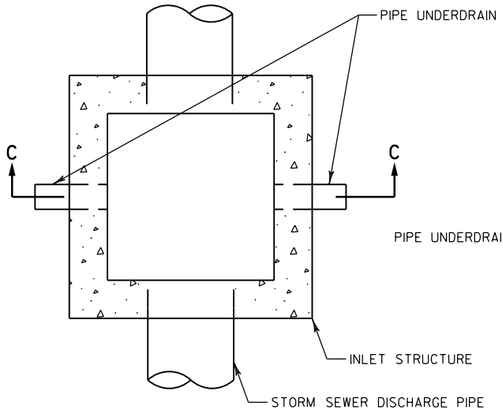
NOTES:

(1) CORE HOLES SHALL PROVIDE FOR A MINIMUM OF 2" OF CONCRETE BETWEEN THE CUTOUT FOR A CONCRETE PIPE AND THE EDGE OF THE CORE HOLE.

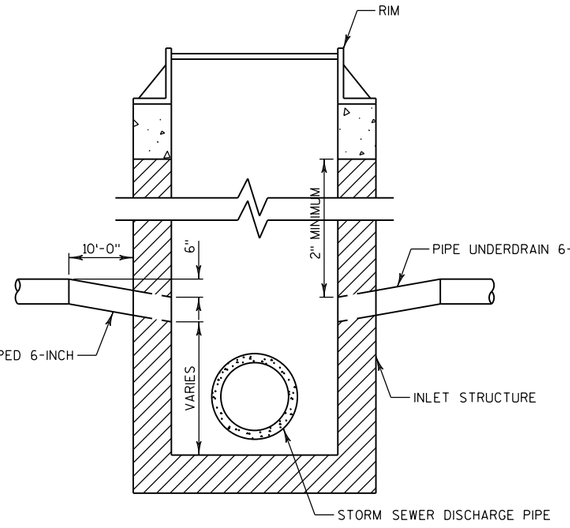
(2) CORE HOLES MAY HAVE 0" CLEARANCE FROM THE INSIDE WALLS OF A STRUCTURE.

UNDERDRAIN PIPE

2



PLAN VIEW



SECTION C-C

UNDERDRAIN OUTFALL AT INLET

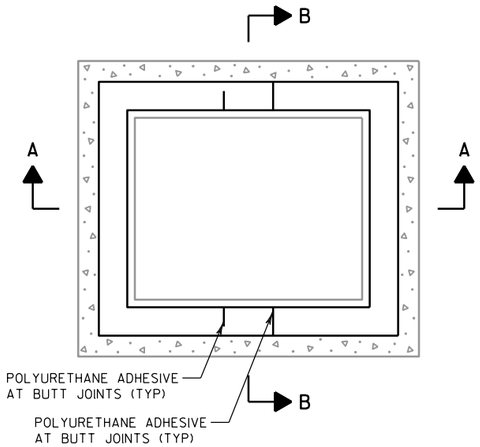
NOTES:

1) CONNECTIONS TO INLETS OR MANHOLES IN MEDIAN SHALL USE PIPE UNDERDRAIN, 6-INCH.

2) PROVIDE TWO 6" DIA. OPENINGS FOR UNDERDRAIN PIPE A MINIMUM OF 2" BELOW THE TOP OF THE INLET STRUCTURES (BOTTOM OF RINGS).

3) SEE TYPICAL SECTIONS, STORM SEWER, AND UNDERDRAIN PLANS FOR PIPE UNDERDRAIN LOCATIONS.

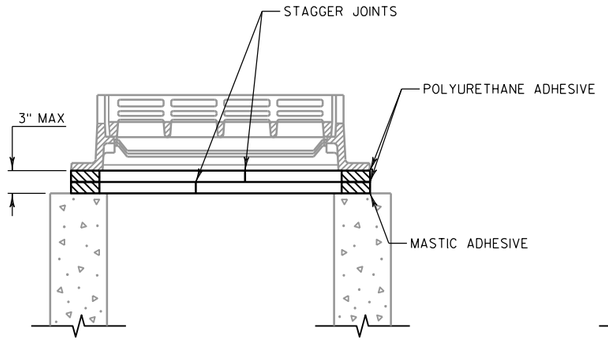
2



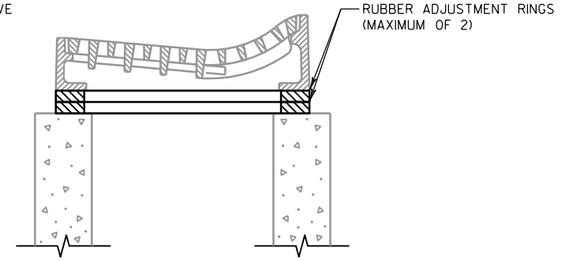
PLAN VIEW

NOTE:

ALL CUTS MADE TO RUBBER ADJUSTMENT RINGS WILL BE PERPENDICULAR AND PROVIDE A TIGHT JOINT.



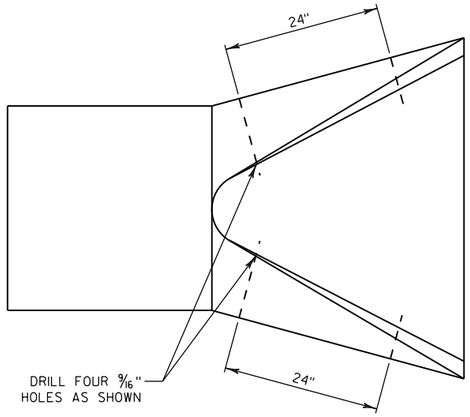
SECTION A-A

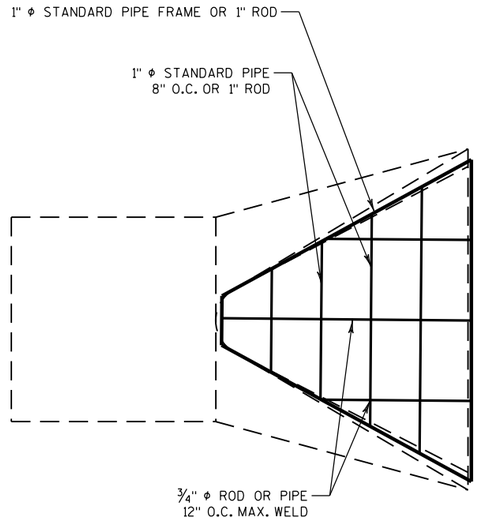


SECTION B-B

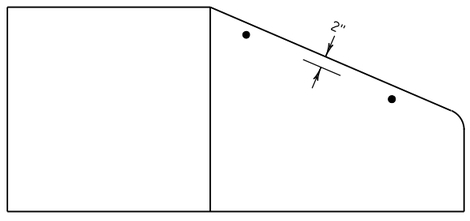
RUBBER RING CUTTING DETAIL FOR INLET 2x2.5-FT, SPECIAL

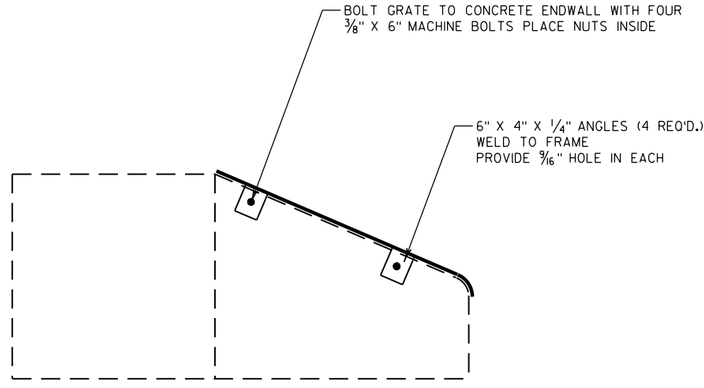
2





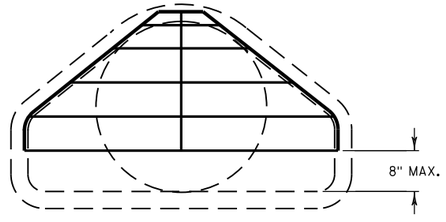
AT EACH PIPE





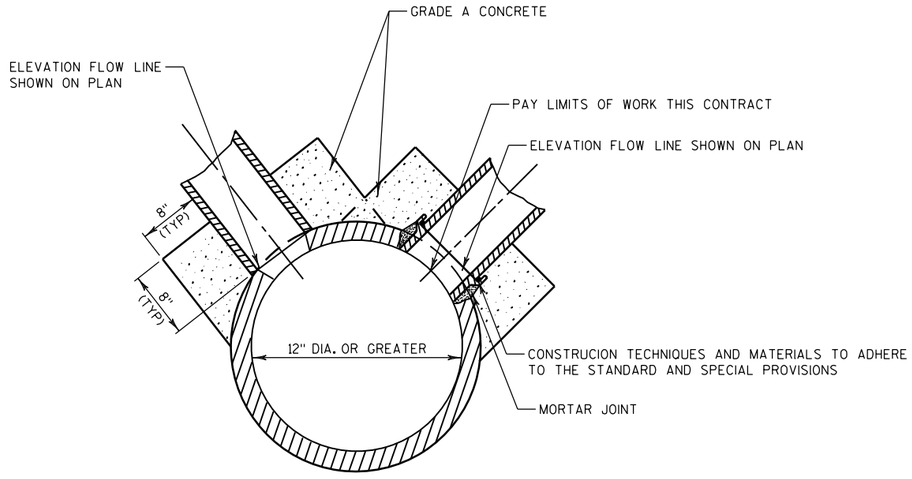
BAR SIZES				
STANDARD DESIGN				
	PIPE SIZE	HOLE DIA. REQ'D.	BOLT DIA.	BAR SIZE
ROUND	12'-24"	3/4"	5/8"	5/8"
ROUND	27"-48"	7/8"	3/4"	3/4"
ROUND	54"-90"	1 1/8"	1"	1"
ARCH	22"-29"	3/4"	5/8"	5/8"
ARCH	36"-59"	7/8"	3/4"	3/4"
ARCH	65"-88"	1 1/8"	1"	1"
BOLT LG.=PIPEWALL THK. + 2 1/2"				

ROUND		ARCH	
PIPE SIZE	H	PIPE SIZE	H
12"	2 1/2"	22"-29"	4"
15"	3"	36"-44"	5"
18"-24"	4"	51"-65"	6"
27"-36"	5"	73"-85"	7"
42"-54"	6"		
60"-72"	7"		
78"-90"	8"		



PIPE GRATE DETAIL

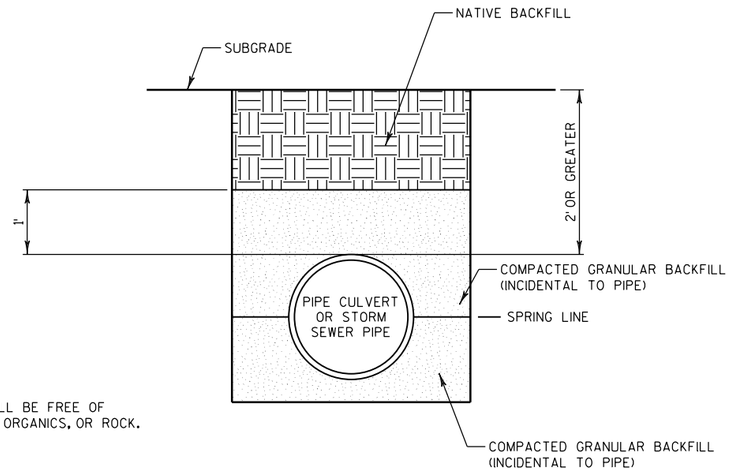
2



DETAIL OF CONNECTION TO EXISTING STORM SEWER

NOTE:

CONTRACT UNIT PRICE FOR PIPE SHALL INCLUDE COST OF CONNECTION TO EXISTING STORM SEWER OR MANHOLE

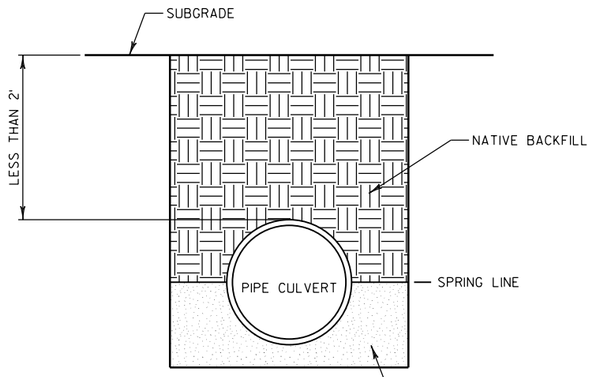


NOTES:

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

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

(FOR PIPES THAT ARE PLACED 2 FEET OR GREATER FROM THE SUBGRADE)

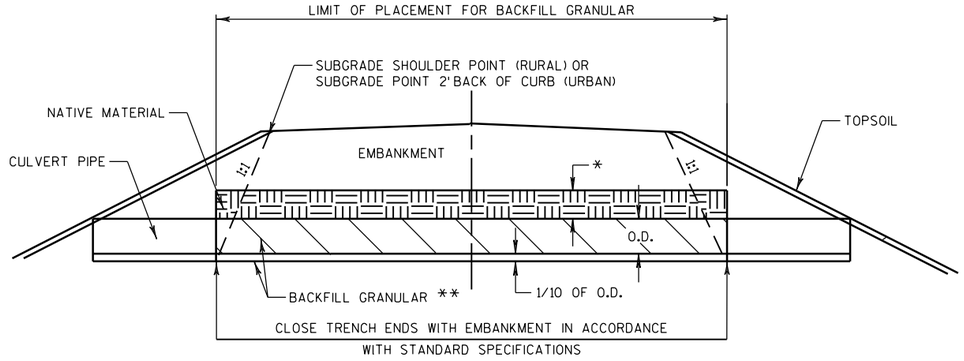


NOTES:

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

TRENCH BACKFILL DETAIL FOR SHALLOW PIPE CULVERTS

(FOR PIPES THAT ARE PLACED LESS THAN 2 FEET FROM THE SUBGRADE)



CULVERT BACKFILL DETAIL

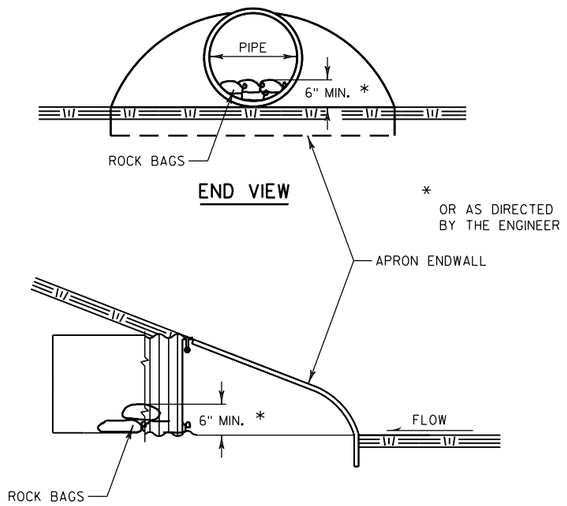
NOTES:

OD = OUTSIDE DIAMETER

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

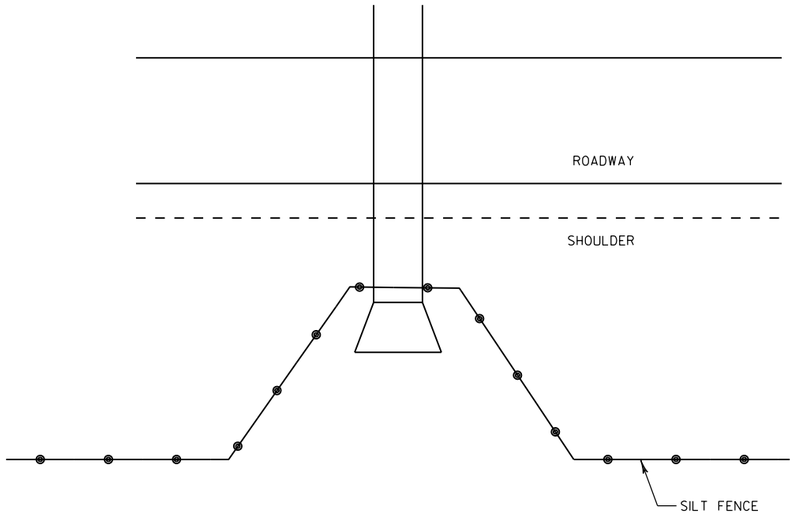
** PAID UNDER SEPERATE BID ITEM

ESTIMATED BAG SIZE = 24" X 12" X 6"	
PIPE SIZE	ESTIMATED NO. OF BAGS
12"	1
15"	2
18"	2
24"	3
30"	5
36"	7
42"	7
48"	10
54"	10
60"	13
72"	16
30"X19"	5
38"X24"	7
53"X34"	10
60"X38"	13
76"X48"	18



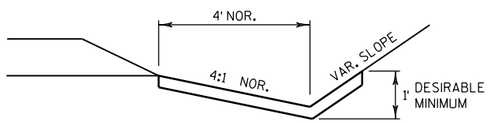
ROCK BAG AT CULVERT INVERT DETAIL

AT INLET LOCATIONS



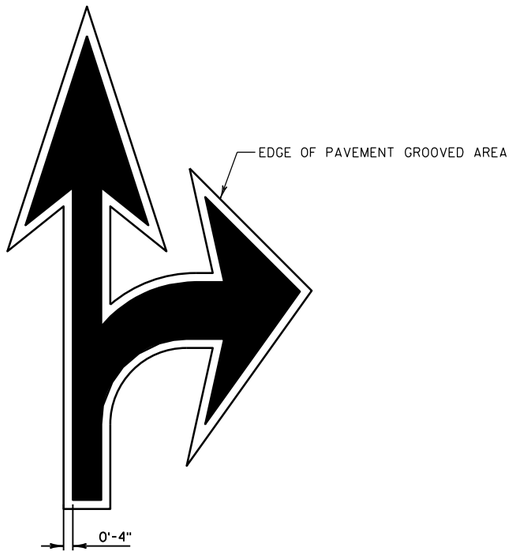
TYPICAL SILT FENCE DETAIL AT PIPE INLET

NOTE:
FOR FURTHER DETAIL SEE
SILT FENCE DETAIL SDD

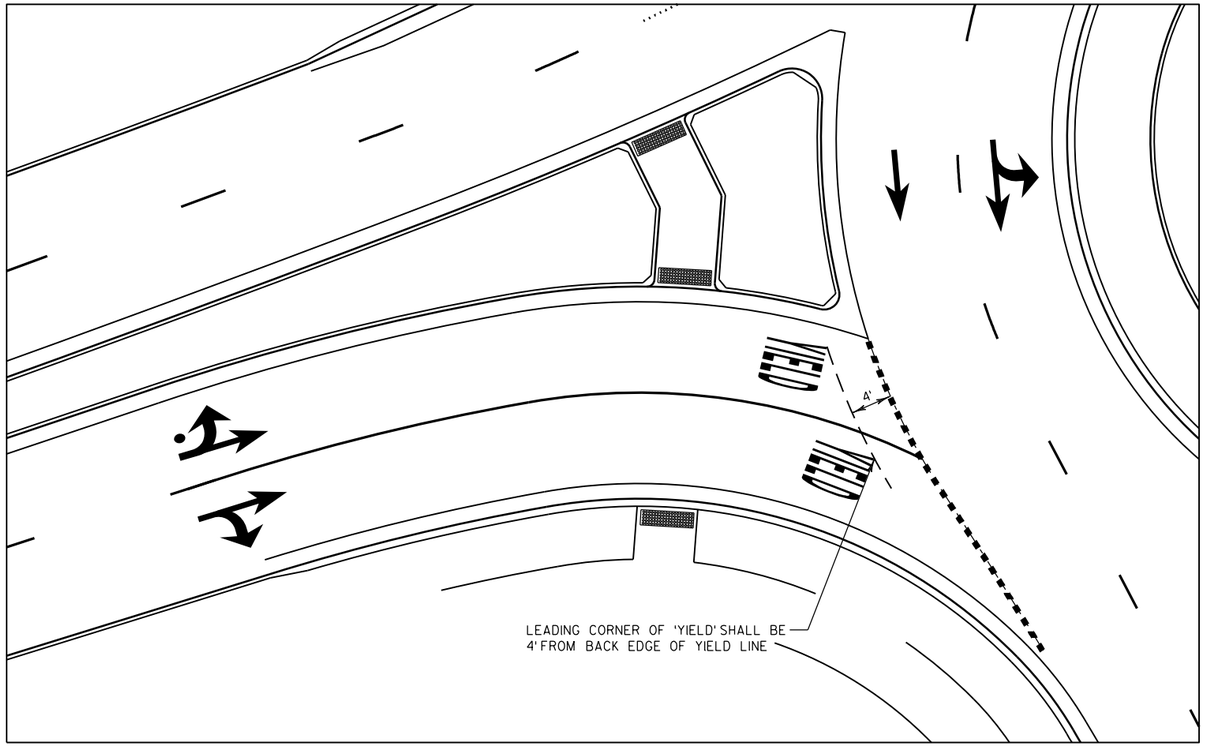


SOD OR EROSION MAT DETAIL FOR DITCHES

2



GROOVED THERMOPLASTIC MARKING DETAIL



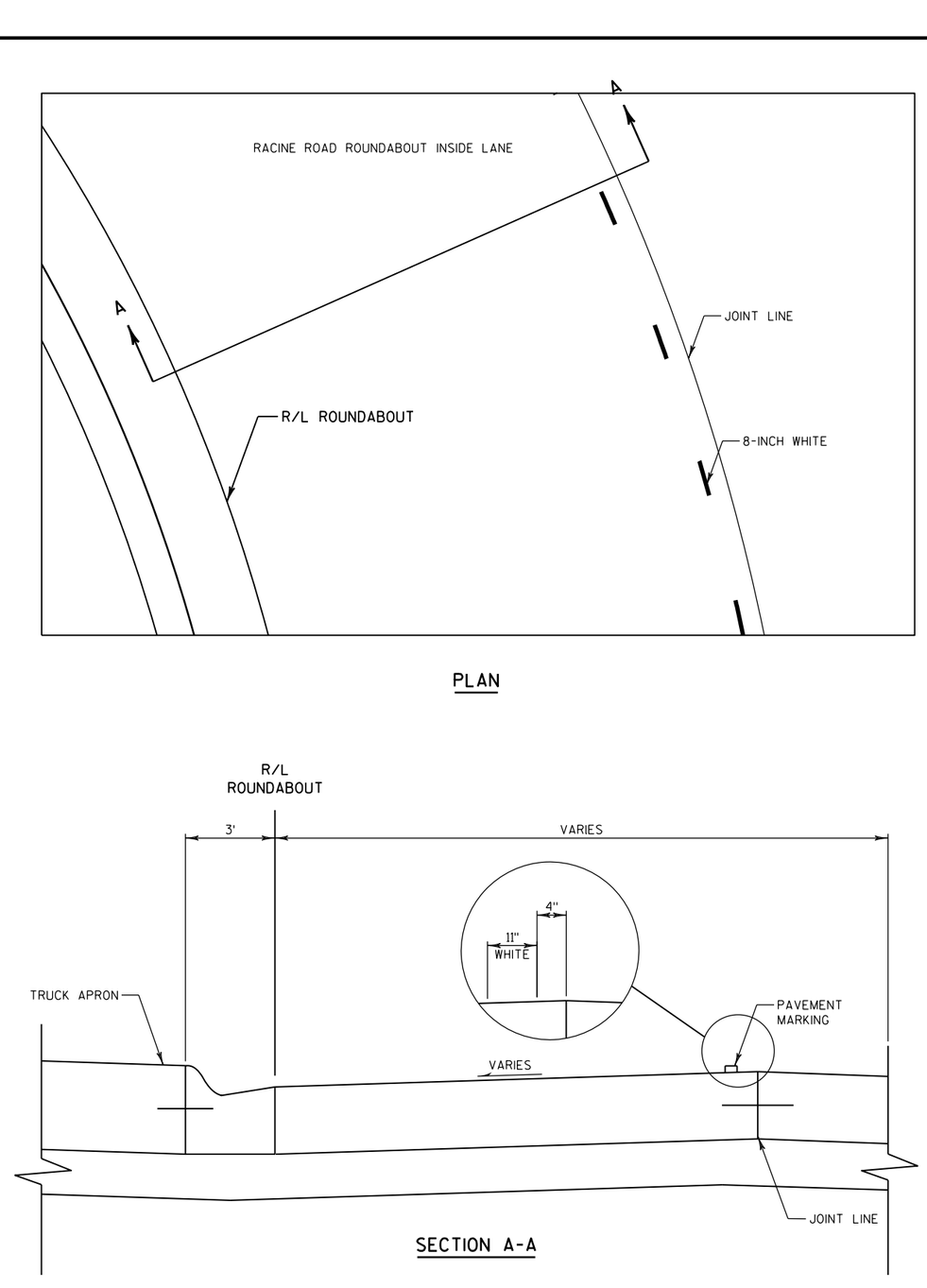
ROUNDABOUT YIELD PAVEMENT MARKING LOCATION

NOTE:

CONSTRUCTION DETAIL TYPICAL FOR ALL GROOVED THERMOPLASTIC PAVEMENT MARKING SYMBOLS AND WORDS. GROOVED AREA NOT TO EXCEED 4-INCHES OUTSIDE OF EDGE OF PAVEMENT MARKING.

2

PLAN



SECTION A-A

NOTE:

REFER TO PAVEMENT MARKING PLANS FOR ADDITIONAL DETAILS RELATING TO MARKING LENGTH, MATERIAL, AND SKIP DISTANCE.

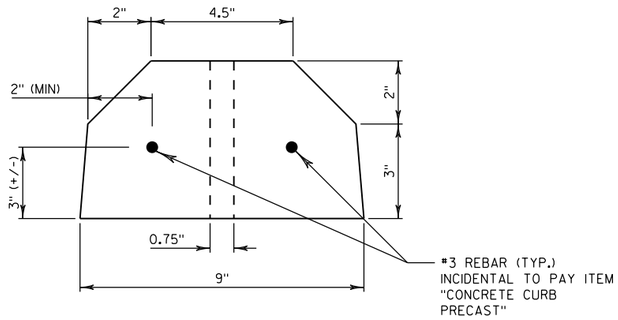
ROUNDABOUT PAVEMENT MARKING DETAILS

2

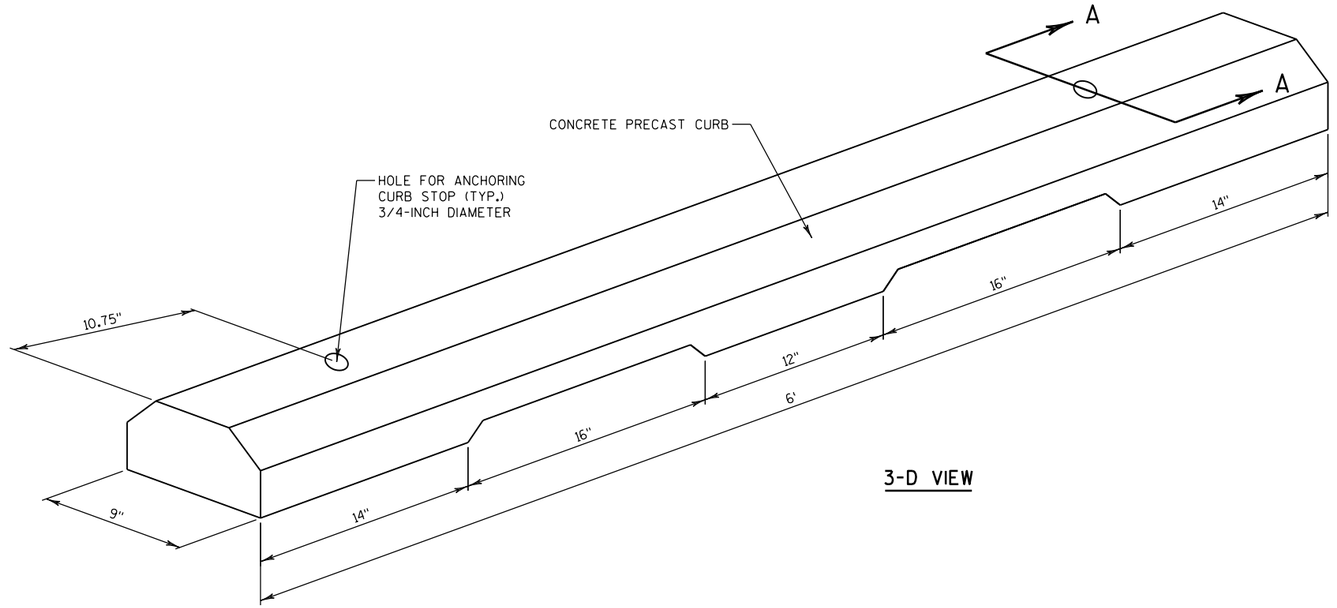
NOTES

1) ANCHOR CURB STOP TO ASPHALTIC SURFACE USING #4 REBAR SPIKES, 14-INCHES LONG. INCIDENTAL TO PAY ITEM "CONCRETE CURB PRECAST"

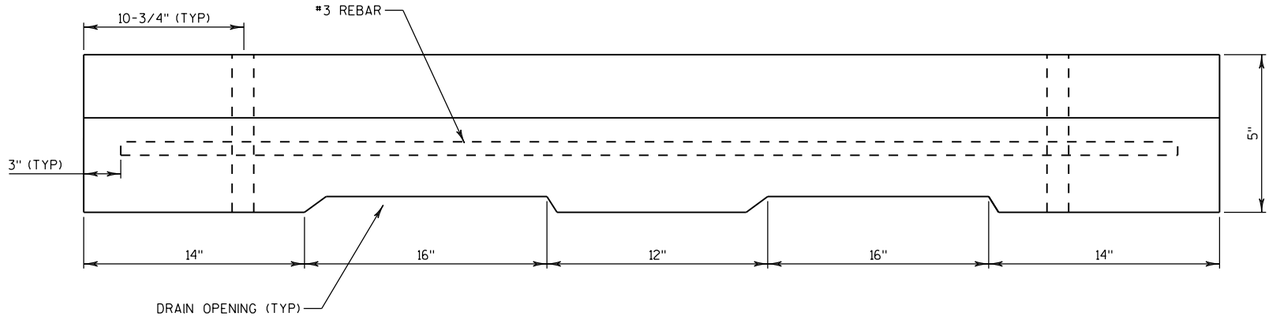
2) A COMMERCIALLY AVAILABLE PRODUCT OF SIMILAR DIMENSIONS MAY BE SUBSTITUTED. ENGINEER MUST APPROVED SHOP DRAWINGS PRIOR TO PURCHASE AND INSTALLATION



SECTION A-A



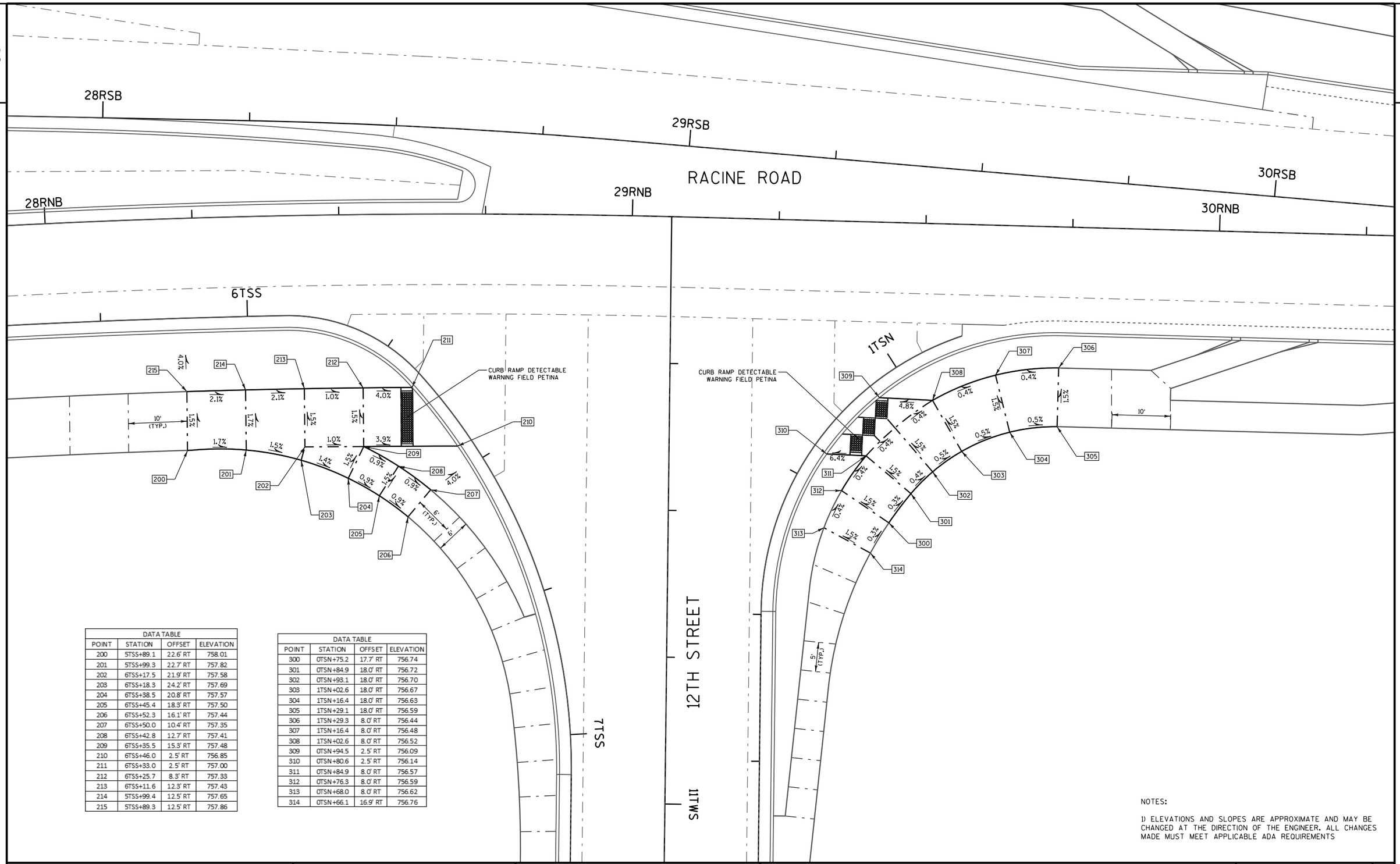
3-D VIEW



CONCRETE CURB PRECAST

PROJECT NO: 1517-75-76	HWY: USH 10	COUNTY: WINNEBAGO	CONSTRUCTION DETAIL	SHEET 44	E

2



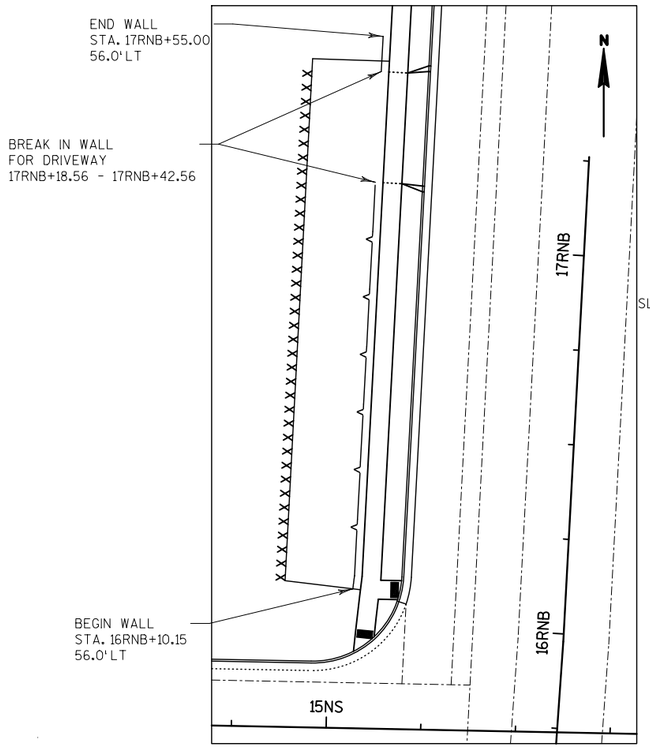
DATA TABLE			
POINT	STATION	OFFSET	ELEVATION
200	5TSS+89.1	22.6' RT	758.01
201	5TSS+99.3	22.7' RT	757.82
202	6TSS+17.5	21.9' RT	757.58
203	6TSS+18.3	24.2' RT	757.69
204	6TSS+38.5	20.8' RT	757.57
205	6TSS+45.4	18.3' RT	757.50
206	6TSS+52.3	16.1' RT	757.44
207	6TSS+50.0	10.4' RT	757.35
208	6TSS+42.8	12.7' RT	757.41
209	6TSS+35.5	15.3' RT	757.48
210	6TSS+46.0	2.5' RT	756.85
211	6TSS+33.0	2.5' RT	757.00
212	6TSS+25.7	8.3' RT	757.33
213	6TSS+11.6	12.3' RT	757.43
214	5TSS+99.4	12.5' RT	757.65
215	5TSS+89.3	12.5' RT	757.86

DATA TABLE			
POINT	STATION	OFFSET	ELEVATION
300	0TSN+75.2	17.7' RT	756.74
301	0TSN+84.9	18.0' RT	756.72
302	0TSN+93.1	18.0' RT	756.70
303	1TSN+02.6	18.0' RT	756.67
304	1TSN+16.4	18.0' RT	756.63
305	1TSN+29.1	18.0' RT	756.59
306	1TSN+29.3	8.0' RT	756.44
307	1TSN+16.4	8.0' RT	756.48
308	1TSN+02.6	8.0' RT	756.52
309	0TSN+94.5	2.5' RT	756.09
310	0TSN+80.6	2.5' RT	756.14
311	0TSN+84.9	8.0' RT	756.57
312	0TSN+76.3	8.0' RT	756.59
313	0TSN+68.0	8.0' RT	756.62
314	0TSN+66.1	16.9' RT	756.76

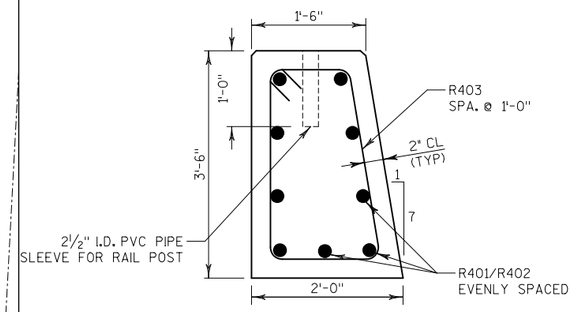
NOTES:

1) ELEVATIONS AND SLOPES ARE APPROXIMATE AND MAY BE CHANGED AT THE DIRECTION OF THE ENGINEER. ALL CHANGES MADE MUST MEET APPLICABLE ADA REQUIREMENTS

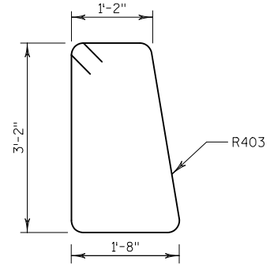
PROJECT NO: 1517-75-76	HWY: USH 10	COUNTY: WINNEBAGO	CONSTUCTION DETAILS	SHEET 45	E



PLAN



WALL DETAIL



BEND DETAIL

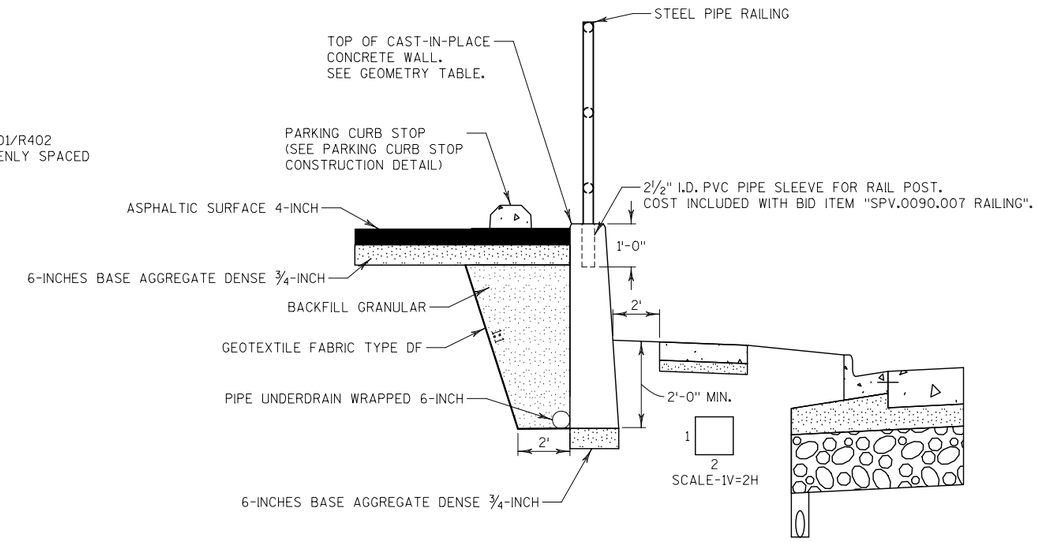
NOTES

1) SLOPE PIPE UNDERDRAIN 6-INCH, 0.5% MINIMUM SLOPE TO STA. 16RNB+67.15. OUTLET TO ROADWAY STORM SEWER INLET.

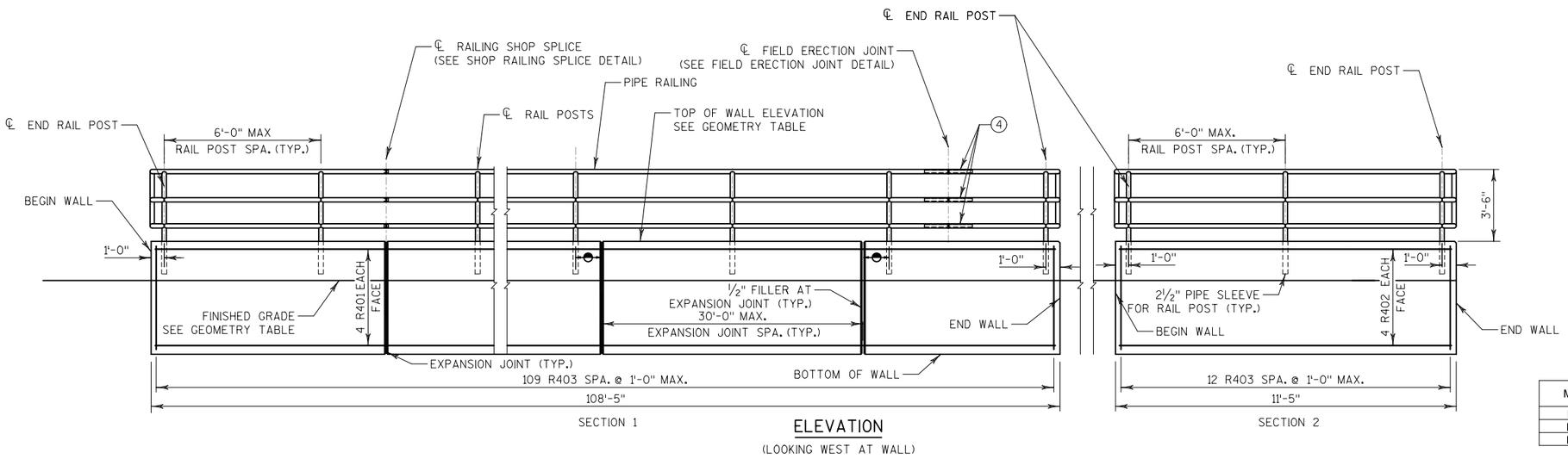
2) DO NOT RUN REINFORCING BARS THROUGH EXPANSION JOINTS.

3) INSTALL REINFORCING BARS 2" CLEAR TO FACE OF CONCRETE.

4) SEE PIPE RAILING CONSTRUCTION DETAIL FOR LEGEND



TYPICAL SECTION THRU WALL



ELEVATION

(LOOKING WEST AT WALL)

GEOMETRY TABLE

		ELEVATIONS		
STATION	OFFSET	FINISHED GRADE	BOTTOM OF WALL	TOP OF WALL
16RNB+10.15	56.15' LT	760.66	758.16	761.667
16RNB+20	56.00' LT	760.55	758.16	761.667
16RNB+30	56.00' LT	760.51	758.16	761.667
16RNB+40	56.00' LT	760.47	758.16	761.667
16RNB+50	56.00' LT	760.44	758.16	761.667
16RNB+60	56.00' LT	760.4	758.16	761.667
16RNB+70	56.00' LT	760.36	758.16	761.667
16RNB+80	56.00' LT	760.32	758.16	761.667
16RNB+90	56.00' LT	760.28	758.16	761.667
17RNB+00	56.00' LT	760.23	758.16	761.667
17RNB+10	56.00' LT	760.19	758.16	761.667
17RNB+18.56	56.00' LT	760.16	758.16	761.667
DRIVEWAY				
17RNB+43.56	56.00' LT	760.06	757.95	761.45
17RNB+50	56.00' LT	760.04	757.95	761.45
17RNB+55.00	56.00' LT	759.95	757.95	761.45

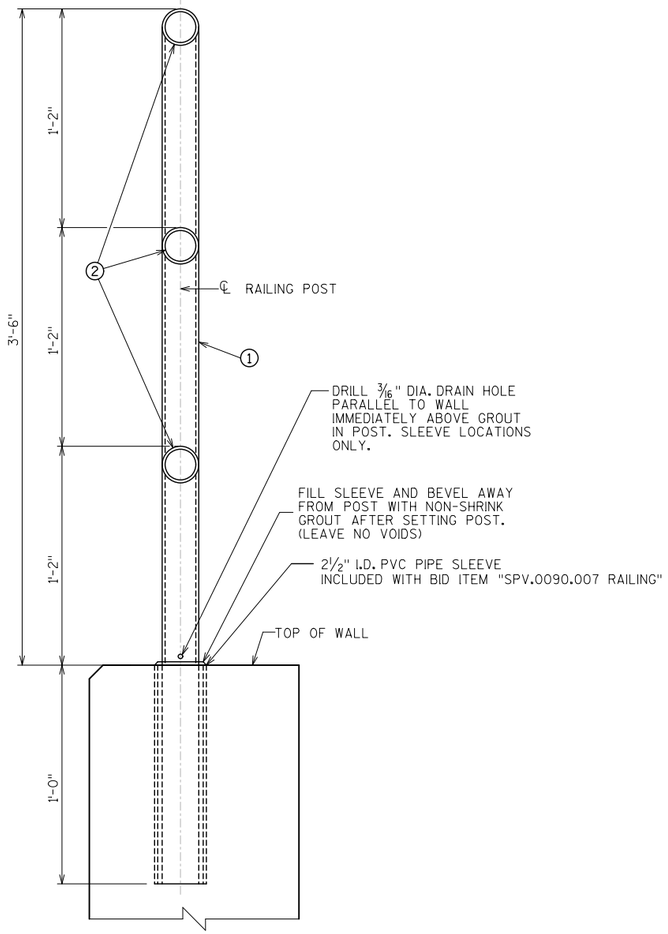
BILL OF BARS

MARK	NO. REQUIRED		LENGTH	WEIGHT (LB)	BENT	LOCATION
	SECTION 1	SECTION 2				
R401	9	-	108'-1"	650		HORIZ.
R402	-	9	11'-1"	67		HORIZ.
R403	109	12	9'-8"	782	X	STIRRUPS

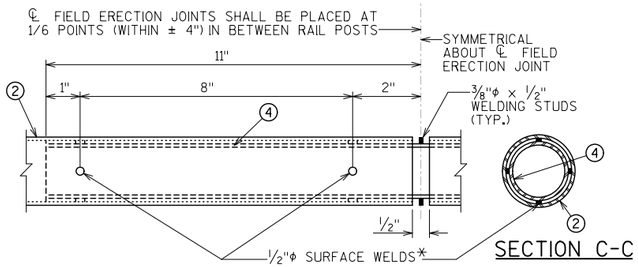
◓ 1'-0" MIN. DISTANCE REQUIRED BETWEEN THE ℄ OF WALL EXPANSION JOINTS AND THE ℄ OF RAIL POSTS

VALLEY MUFFLER AND BRAKE RETAINING WALL

PROJECT NO: 1517-75-76	HWY: USH 10	COUNTY: WINNEBAGO	RETAINING WALL CONSTRUCTION DETAIL	SHEET 46	E

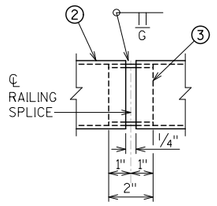


SECTION THRU RAILING



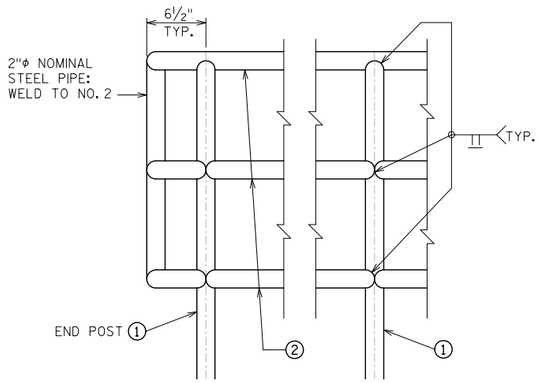
FIELD ERECTION JOINT DETAIL

*MIN. 5/8" FLAT SURFACE DIA. PUNCHINGS OR STUDS MAY BE USED AS AN ALTERNATE.



SHOP RAILING SPLICE DETAIL

(LOCATION MUST BE SHOWN ON THE SHOP DRAWINGS)



PART ELEVATION OF RAILING

LEGEND

(1) 2"ϕ NOMINAL STEEL PIPE FOR POSTS. POSTS ARE TO BE SET VERTICAL.

(2) 2"ϕ NOMINAL STEEL PIPE FOR RAILS: WELD TO NO. 1

(3) 1½"ϕ PIPE SLEEVE FOR NO. 2. PROVIDE "SLIDING FIT" WITH A MINIMUM OUT TO OUT DIMENSION OF 2 1/16".

(4) 1½"ϕ PIPE SLEEVE x 1'-10" LONG FOR NO. 2. PROVIDE ½"ϕ SURFACE WELDS ON ALL SIDES AS SHOWN. GRIND WELDS TO FIT FREE INTO I.D. OF NO. 2. PROVIDE 3/8"ϕ x ½" WELDING STUDS ON TOP AND BOTTOM SURFACES AT CENTERLINE.

GENERAL NOTES

BID ITEM SHALL BE "SPV.0090.007 RAILING", WHICH INCLUDES ALL ITEMS SHOWN

RAILING SHALL BE FABRICATED IN LENGTHS THAT INCLUDE 3 OR 4 POSTS.

FIELD ERECTION JOINTS MUST BE PLACED IN BETWEEN RAIL POSTS WHERE THERE IS ALSO A WALL EXPANSION JOINT IN BETWEEN RAIL POSTS.

ALL MATERIAL SHALL BE GALVANIZED AFTER FABRICATION. PRIOR TO GALVANIZING, ALL STEEL RAILING POSTS AND STEEL TUBING SHALL BE GIVEN A NO. 6 BLAST CLEANING BY S.S.P.C. SPECIFICATIONS. AFTER GALVANIZING, PAINT ALL SURFACES OF RAILING BLACK (FEDERAL COLOR NUMBER 27038).

DRILL DRAIN HOLES PRIOR TO GALVANIZING.

ALL MATERIALS USED IN FABRICATION SHALL BE MADE FROM MATERIALS CONFORMING TO A.S.T.M. DESIGNATION A709 GRADE 36 UNLESS NOTED OTHERWISE.

ALL RAILS, POSTS AND SLEEVES ARE STANDARD WEIGHT PIPE, SCHEDULE 40.

PIPE SLEEVES SHALL BE ACCURATELY PLACED TO PROVIDE CORRECT ALIGNMENT OF RAILING.

CAULK AROUND PERIMETER OF PIPE SLEEVE AT TOP OF CONCRETE WITH NON-STAINING, GRAY, NON-BITUMINOUS JOINT SEALER.

PROJECT NO: 1517-75-76	HWY: USH 10	COUNTY: WINNEBAGO	PIPE RAILING CONSTRUCTION DETAIL	SHEET 47	E

REMOVING STORM SEWER, 30-INCH
EXISTING R/W
REMOVING STORM SEWER, 21-INCH
MATCHLINE 16RNB+00
REMOVING STORM SEWER, 24-INCH
REMOVING STORM SEWER, 12-INCH
REMOVING STORM SEWER, 24-INCH
9TH STREET
14NS
15NS
16NS
17NS
18NS
19NS
REMOVING STORM SEWER, 12-INCH
TLE
PROPOSED R/W
R/L 9TH STREET
REMOVING STORM SEWER, 10-INCH
15RNB
RACINE ROAD
R/L RACINE ROAD NB
SLOPE INTERCEPTS (TYP.)
WARSAW STREET
14RNB
REMOVING STORM SEWER, 24-INCH
TLE
13RNB
REMOVING STORM SEWER, 10-INCH
N

REMOVAL LEGEND

- GRUBBING (STA)
- REMOVING PAVEMENT
- REMOVING SIDEWALK
- REMOVING ASPHALTIC SURFACE (QUANTITY PAID UNDER "COMMON EXCAVATION")
- REMOVING FENCE
- XXXX SAWCUTING PAVEMENT
- REMOVING MANHOLES
- REMOVING INLETS
- REMOVING CURB & GUTTER
- RM REMOVING STORM SEWER
- REMOVING SMALL PIPE CULVERTS
- SLOPE INTERCEPT
- REMOVING GUARDRAIL

NOTES:
1. SIDEWALK REMOVAL ALONG RACINE AND 9TH TO BE COMPLETED IN MULTIPLE STAGES. REFER TO TRAFFIC CONTROL PLAN SHEETS FOR WORKZONE LIMITS

2. 'CLEARING' WILL BE COMPLETED PRIOR TO THE BEGINNING OF THE CONTRACT

3. REFER TO SIGNAL PLANS FOR TRAFFIC SIGNAL REMOVAL INFORMATION

PROJECT NO: 1517-75-76	HWY: USH 10	COUNTY: WINNEBAGO	REMOVAL PLAN	SHEET 48	E

FILE NAME : \\milw00\ingrproj\56537\1517-75-76\t1\cds\021101_rm.dgn PLOT DATE : 2/1/2016 PLOT BY : arosemeyer PLOT NAME : PLOT SCALE : 40:1

WISDOT/CADDS SHEET 42

2

REMOVING CURB AND GUTTER

R/L VALLEY MUFFLER AND BRAKE

SLOPE INTERCEPTS (TYP.)

PROPOSED R/W

TLE

1VMB

REMOVING STORM SEWER, 21-INCH

RNB+31.64
3.03' LT

19RSB
19RNB

18RNB

17RNB

MATCHLINE 16RNB+00

RNB+17.33
28.42' RT

REMOVING STORM SEWER, 12-INCH

RNB+29.17
48.74' RT

RNB+61.10
55.90' LT

RNB+51.61
49.06' LT

RNB+02.26
48.23' LT

RNB+51.06
26.40' LT

20RSB

20RNB

RNB+63.39
28.62' RT

R/L RACINE ROAD NB

RNB+61.23
48.47' RT

RNB+46.87
56.19' RT

RACINE ROAD

RNB+35.78
45.95' LT

RNB+33.58
25.79' LT

R/L RACINE ROAD SB

27 LF CORRUGATED METAL
CULVERT PIPE, 15-INCH

22RSMC

22RS

21RSB

RNB+84.87
14.88' LT

RNB+99.47
20.04' LT

21RNB

22R

MATCHLINE 22RNB+00

RNB+49.29
49.10' RT

RNB+05.35
68.73' RT

RNB+88.63
80.55' RT

RNB+25.92
63.41' RT

REMOVING STORM SEWER, 24-INCH

RNB+32.67
79.26' RT

EXISTING R/W

RNB+24.21
98.43' RT

RNB+02.97
105.97' RT

REMOVING STORM SEWER, 24-INCH

ICSS

ICDW

ICCW

R/L CITGO CAR WASH

R/L CITGO GAS STATION

REMOVING STORM SEWER, 12-INCH

REMOVING STORM SEWER, 18-INCH

EXISTING R/W

TLE

ASPH.

/SIGN

CONC.

ASPH.

RM

REMOVAL LEGEND

- GRUBBING (STA)
- REMOVING PAVEMENT
- REMOVING SIDEWALK
- REMOVING ASPHALTIC SURFACE
  (QUANTITY PAID UNDER "COMMON EXCAVATION")
- —x— REMOVING FENCE
- XXXX SAWCUTING PAVEMENT
- REMOVING MANHOLES
- REMOVING INLETS
- | | | REMOVING CURB & GUTTER
- —RM— REMOVING STORM SEWER
- —···— REMOVING SMALL PIPE CULVERTS
- — — — SLOPE INTERCEPT
- —o— REMOVING GUARDRAIL

NOTES:
1. 'CLEARING' WILL BE COMPLETED PRIOR TO THE BEGINNING OF THE CONTRACT

PROJECT NO: 1517-75-76	HWY: USH 10	COUNTY: WINNEBAGO	REMOVAL PLAN	SHEET 49	E

FILE NAME : \\milw00\ingrproj\56537\1517-75-76\t1\cds\021102_rm.dgn PLOT DATE : 2/1/2016 PLOT BY : grosemeyer PLOT NAME : PLOT SCALE : 40:1

WISDOT/CADDS SHEET 42

REMOVAL LEGEND

- GRUBBING (STA)
- REMOVING PAVEMENT
- REMOVING SIDEWALK
- REMOVING ASPHALTIC SURFACE
  (QUANTITY PAID UNDER "COMMON EXCAVATION")
- —x— REMOVING FENCE
- XXXX SAWCUTING PAVEMENT
- REMOVING MANHOLES
- REMOVING INLETS
- REMOVING CURB & GUTTER
- —RM— REMOVING STORM SEWER
- REMOVING SMALL PIPE CULVERTS
- SLOPE INTERCEPT
- REMOVING GUARDRAIL
- (1) REMOVING CONCRETE BASES
- (2) REMOVING PULL BOXES

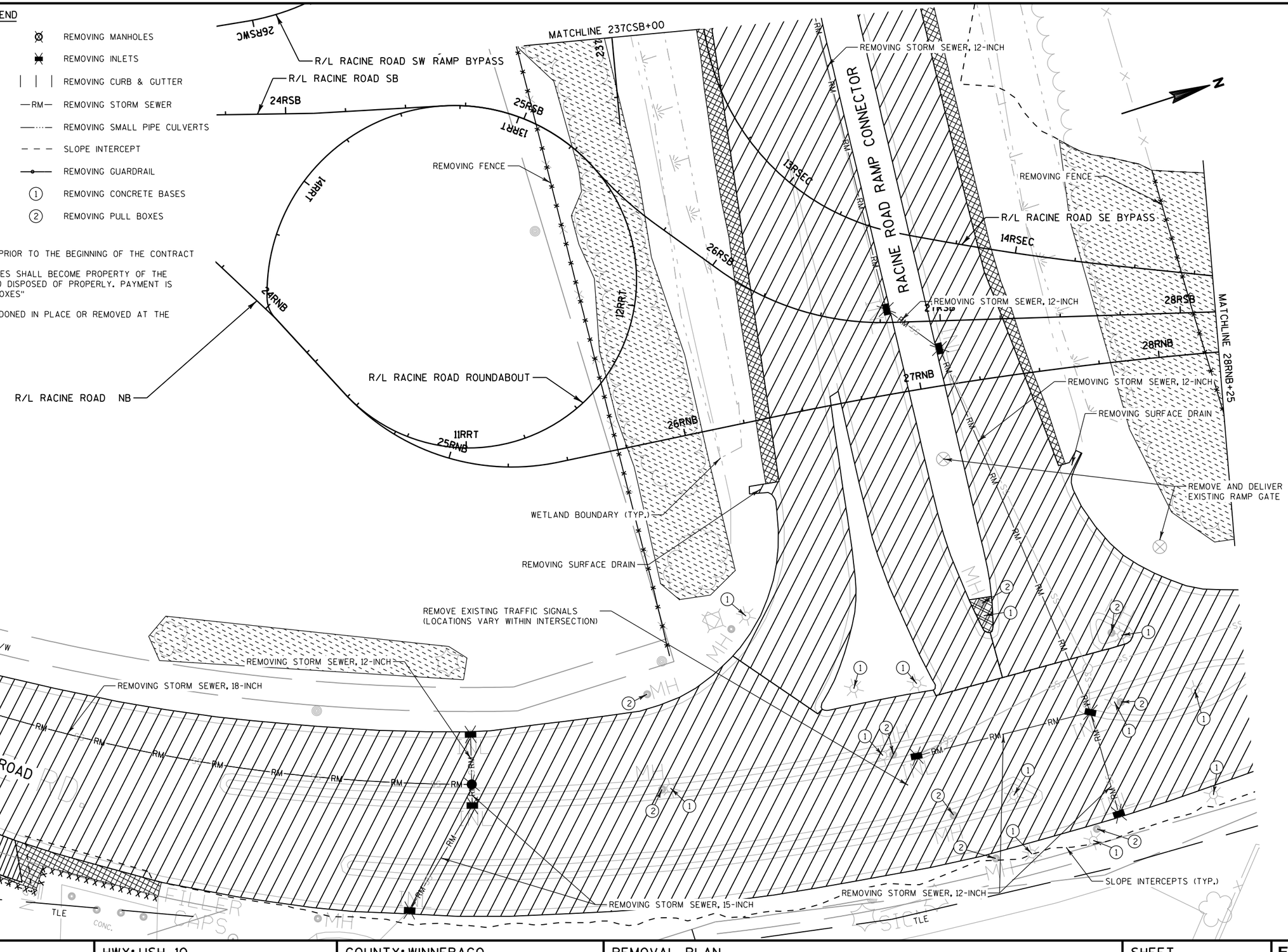
MATCHLINE 22RNB+00

NOTES:

1. 'CLEARING' WILL BE COMPLETED PRIOR TO THE BEGINNING OF THE CONTRACT

2. UNDERGROUND CABLES AND WIRES SHALL BECOME PROPERTY OF THE CONTRACTOR TO BE REMOVED AND DISPOSED OF PROPERLY. PAYMENT IS INCIDENTAL TO "REMOVING PULL BOXES"

3. EXISTING CONDUIT TO BE ABANDONED IN PLACE OR REMOVED AT THE CONTRACTOR'S EXPENSE.



PROJECT NO: 1517-75-76	HWY: USH 10	COUNTY: WINNEBAGO	REMOVAL PLAN	SHEET 50	E

FILE NAME : \\milw00\ingrproj\56537\1517-75-76\t1\cds\021103_rm.dgn PLOT DATE : 2/1/2016 PLOT BY : arosemeyer PLOT NAME : PLOT SCALE : 40:1

WISDOT/CADDS SHEET 42

2

N

R/L RACINE ROAD SE RAMP BYPASS

15RSEC

MATCHLINE 28RNB+25

29RSB

29RNB

R/L RACINE ROAD SB

SLOPE INTERCEPTS (TYP.)

TLE

PROPOSED R/W

30RSB

30RNB

REMOVING FENCE

31RNB

31RSB

R/L RACINE ROAD NB

REMOVING STORM SEWER, 12-INCH

REMOVING STORM SEWER, 21-INCH

EXISTING R/W

32RNB

REMOVING SEWER, 24-INCH

33RNB

MATCHLINE 33RNB+50

RACINE ROAD

11RWS

PDOD

OSDW

R/L SPILSKI DRIVEWAY

REMOVING STORM SEWER, 15-INCH

R/L PDO DRIVEWAY

REMOVING STORM SEWER, 12-INCH

12RWS

R/L 12TH STREET

13RWS

12TH STREET

CANOPY

REMOVAL LEGEND

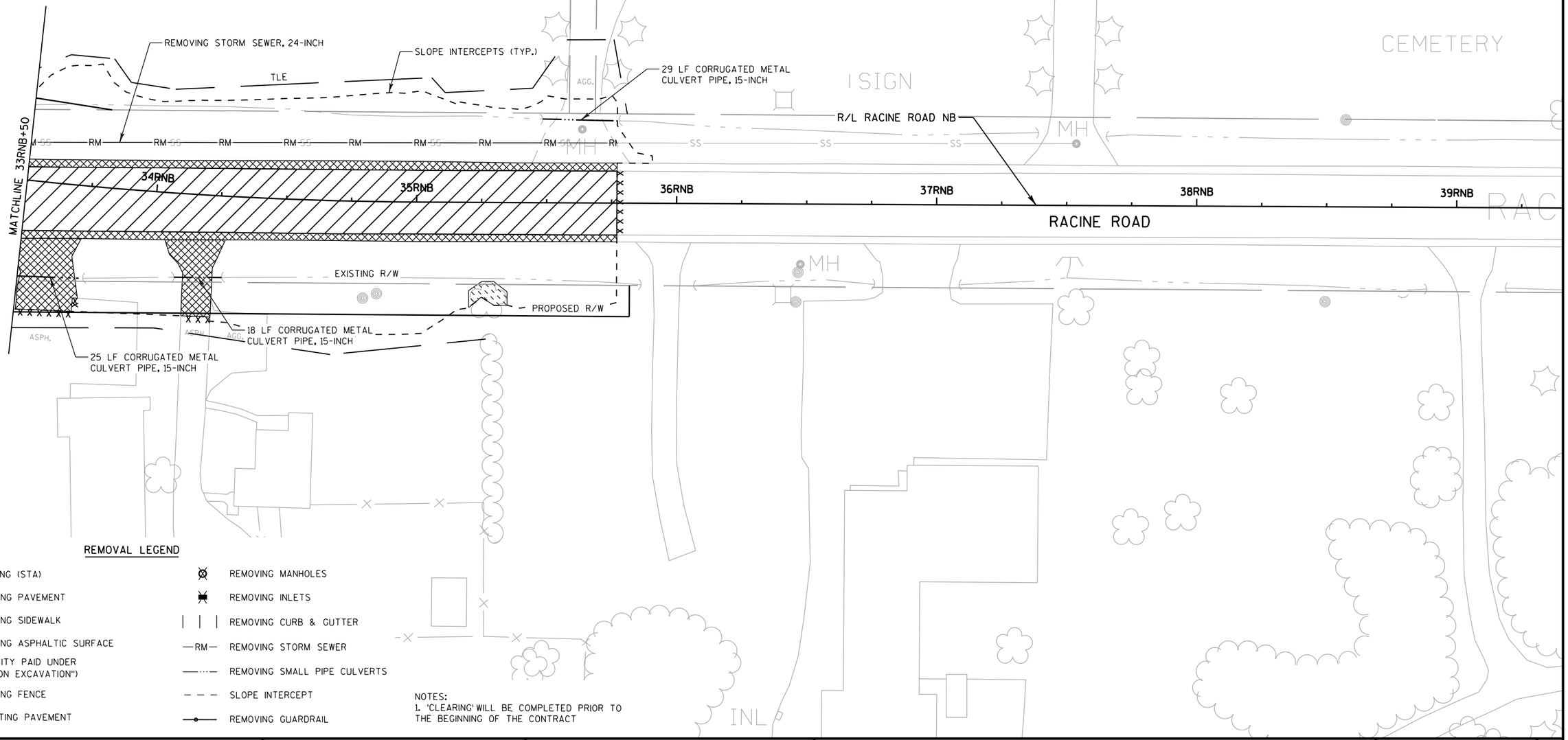
- GRUBBING (STA)
- REMOVING PAVEMENT
- REMOVING SIDEWALK
- REMOVING ASPHALTIC SURFACE (QUANTITY PAID UNDER "COMMON EXCAVATION")
- REMOVING FENCE
- XXXX SAWCUTING PAVEMENT
- REMOVING MANHOLES
- REMOVING INLETS
- REMOVING CURB & GUTTER
- RM REMOVING STORM SEWER
- REMOVING SMALL PIPE CULVERTS
- SLOPE INTERCEPT
- REMOVING GUARDRAIL

NOTES:
1. 'CLEARING' WILL BE COMPLETED PRIOR TO THE BEGINNING OF THE CONTRACT

PROJECT NO: 1517-75-76	HWY: USH 10	COUNTY: WINNEBAGO	REMOVAL PLAN	SHEET E

FILE NAME : \\milw00\ingrproj\56537\1517-75-76\t1\cds\021104_rm.dgn PLOT DATE : 2/1/2016 PLOT BY : grosemeyer PLOT NAME : PLOT SCALE : 40:1

2



REMOVAL LEGEND

- GRUBBING (STA)
- REMOVING PAVEMENT
- REMOVING SIDEWALK
- REMOVING ASPHALTIC SURFACE (QUANTITY PAID UNDER "COMMON EXCAVATION")
- —×— REMOVING FENCE
- XXXX SAWCUTING PAVEMENT
- REMOVING MANHOLES
- REMOVING INLETS
- REMOVING CURB & GUTTER
- —RM— REMOVING STORM SEWER
- REMOVING SMALL PIPE CULVERTS
- SLOPE INTERCEPT
- REMOVING GUARDRAIL

NOTES:
1. 'CLEARING' WILL BE COMPLETED PRIOR TO THE BEGINNING OF THE CONTRACT

PROJECT NO: 1517-75-76	HWY: USH 10	COUNTY: WINNEBAGO	REMOVAL PLAN	SHEET	E

FILE NAME : \\milw00\ingrproj\56537\1517-75-76\t1\cds\021105_rm.dgn PLOT DATE : 2/1/2016 PLOT BY : arosemeyer PLOT NAME : PLOT SCALE : 40:1

2

2

PROPOSED R/W

EXISTING R/W

REMOVING FENCE

R/L RACINE ROAD SW RAMP BYPASS

SLOPE INTERCEPTS (TYP.)

WETLAND BOUNDARY (TYP.)

R/L RACINE ROAD CONNECTOR SB

MATCHLINE 236CSB+50

237CSB

25RSWC

24RSWC

238CSB

238CNB

23RSWC

239CSB

239CNB

REMOVING STORM SEWER, 12-INCH

12RSEC

REMOVING SAND BARRELS

18RSEC

22RSWC

240CSB

240CNB

21RSWC

241CSB

241CNB

RACINE ROAD RAMP CONNECTOR

REMOVING STORM SEWER, 12-INCH

REMOVING STORM SEWER, 18-INCH

20RSWC

242CSB

242CNB

REMOVE SIGN STRUCTURE
STATION 237CNB+65

R/L RACINE ROAD SE RAMP BYPASS

R/L RACINE ROAD CONNECTOR NB

REMOVING STORM SEWER, 18-INCH

REMOVING SAND BARRELS

N

REMOVAL LEGEND

- GRUBBING (STA)
- REMOVING PAVEMENT
- REMOVING SIDEWALK
- REMOVING ASPHALTIC SURFACE (QUANTITY PAID UNDER "COMMON EXCAVATION")
- —x— REMOVING FENCE
- XXXX SAWCUTING PAVEMENT
- REMOVING MANHOLES
- REMOVING INLETS
- REMOVING CURB & GUTTER
- —RM— REMOVING STORM SEWER
- REMOVING SMALL PIPE CULVERTS
- SLOPE INTERCEPT
- REMOVING GUARDRAIL

NOTES:
1. 'CLEARING' WILL BE COMPLETED PRIOR TO THE BEGINNING OF THE CONTRACT

PROJECT NO: 1517-75-76	HWY: USH 10	COUNTY: WINNEBAGO	REMOVAL PLAN	SHEET 53	E

REMOVAL LEGEND

- GRUBBING (STA)
- REMOVING PAVEMENT
- REMOVING SIDEWALK
- REMOVING ASPHALTIC SURFACE
  (QUANTITY PAID UNDER "COMMON EXCAVATION")
- —×— REMOVING FENCE
- XXXX SAWCUTING PAVEMENT
- REMOVING MANHOLES
- REMOVING INLETS
- | | | REMOVING CURB & GUTTER
- —RM— REMOVING STORM SEWER
- —···— REMOVING SMALL PIPE CULVERTS
- – – – SLOPE INTERCEPT
- —●— REMOVING GUARDRAIL

NOTES:
1. RAILROAD BASES ARE REMOVED WITH CONTRACT 1517-75-75
2. 'CLEARING' WILL BE COMPLETED PRIOR TO THE BEGINNING OF THE CONTRACT

N

WETLAND BOUNDARY (TYP.)

R/L RACINE ROAD SW RAMP BYPASS

21RSWC
20RSWC
19RSWC
18RSWC
17RSWC
16RSWC

242CSB
242CNB
243CSB
243CNB
244CSB
244CNB
245CSB
245CNB
246CSB
246CNB
247CSB
247CNB

R/L RACINE ROAD CONNECTOR SB

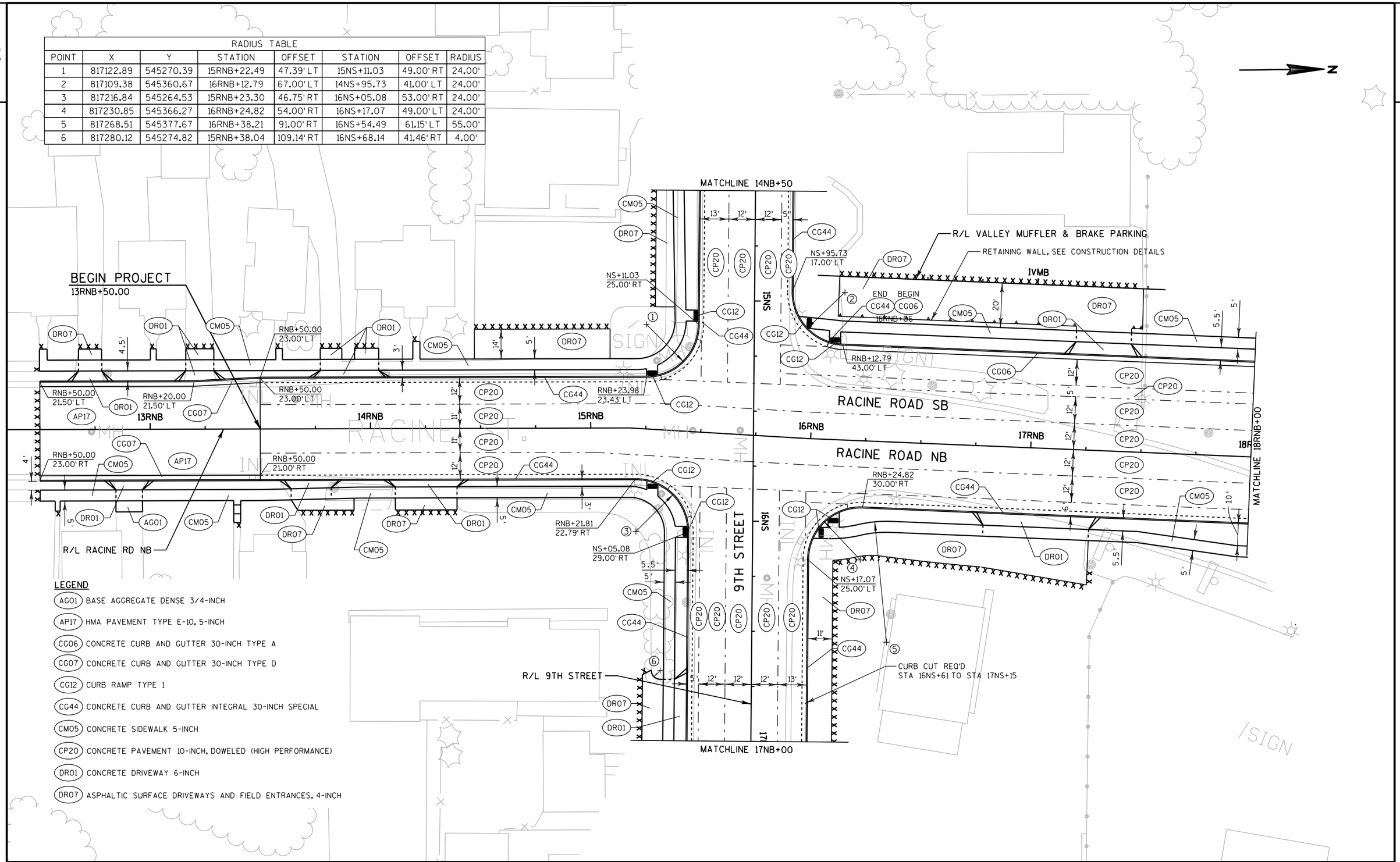
R/L RACINE ROAD CONNECTOR NB

SLOPE INTERCEPTS (TYP.)

PROJECT NO: 1517-75-76	HWY: USH 10	COUNTY: WINNEBAGO	REMOVAL PLAN	SHEET	E

FILE NAME : \\milw00\ingrproj\56537\1517-75-76\t1\cds\021107_rm.dgn
PLOT DATE : 2/1/2016
PLOT BY : arosemeyer
PLOT NAME :
PLOT SCALE : 40:1
WISDOT/CADDS SHEET 42

RADIUS TABLE							
POINT	X	Y	STATION	OFFSET	STATION	OFFSET	RADIUS
1	817122.89	545270.39	15RNB+22.49	47.39' LT	15NS+11.03	49.00' RT	24.00'
2	817109.38	545360.67	16RNB+12.79	67.00' LT	14NS+95.73	41.00' LT	24.00'
3	817216.84	545264.53	15RNB+23.30	46.75' RT	16NS+05.08	53.00' RT	24.00'
4	817230.85	545366.27	16RNB+24.82	54.00' RT	16NS+17.07	49.00' LT	24.00'
5	817268.51	545377.67	16RNB+38.21	91.00' RT	16NS+54.49	61.15' LT	55.00'
6	817280.12	545274.82	15RNB+38.04	109.14' RT	16NS+68.14	41.46' RT	4.00'



PROJECT NO: 1517-75-76	HWY: USH 10	COUNTY: WINNEBAGO	PLAN DETAILS	SHEET 55	E

2

FOR FUTURE DRIVEWAY

RSB+11.63
43.00' LT

END BEGIN
CG06 CG44
19RSB+92

R/L RACINE RD SB

RSB+08.44
36.00' LT

END BEGIN
CG44 CG06
27RSWC+47

RSWC+14.84
16.62' RT

END BEGIN
CG06 CG44
26RSWC+31

RSB+15.63
30.00' LT

RACINE ROAD SB

RACINE ROAD NB

28RSWC

R/L RACINE RD SW RAMP BYPASS

27RSWC

2RSWP

1RSWP

MATCHLINE 18RNB+00

MATCHLINE 24RSB+00

RNB+58.54
0.00

RSB+95.78
0.00

RNB+71.14
12.00' RT

RNB+32.41
30.00' RT

RNB+64.41
26.00' RT

RNB+71.80
0.00

RNB+79.97
15.00' RT

END BEGIN
CG44 CG06
22RNB+32

R/L RACINE RD NB

S-70-216

SEE NOTE 1

M/L CGS/CDW

M/L CDW/RNB/RRT

R/L CITGO CAR WASH DRIVEWAY

REFER TO URBAN DRIVEWAY CONSTRUCTION DETAIL FOR SUBSTRUCTURE INFORMATION

M/L CCW/CGS

R/L CITGO GAS STATION DRIVEWAY

REFER TO URBAN DRIVEWAY CONSTRUCTION DETAIL FOR SUBSTRUCTURE INFORMATION

REFER TO URBAN DRIVEWAY CONSTRUCTION DETAIL FOR SUBSTRUCTURE INFORMATION

R/L CITGO DRIVEWAY

R = 10'

CDW+60.58
22.37' RT

CDW+73.75
12.73' RT

CDW+73.75
31.05' LT

1CCW

1CGS

1CDW

2CDW

2CSBP

1RSBP

1ISS

1ISS

19RSB
19RNB

20RSB
20RNB

21RSB
21RNB

22RSB
22RNB

23RSB
23RNB

24RSB
24RNB

LEGEND

- CG06 CONCRETE CURB AND GUTTER 30-INCH TYPE A
- CG11 CURB RAMP TYPE 6
- CG12 CURB RAMP TYPE 1
- CG23 CONCRETE CURB PEDESTRIAN
- CG44 CONCRETE CURB AND GUTTER INTEGRAL 30-INCH SPECIAL
- CM01 CONCRETE MEDIAN SLOPED NOSE TYPE 1
- CM05 CONCRETE SIDEWALK, 5-INCH
- CM11 COLORED AND STAMPED CONCRETE 5-INCH
- CP20 CONCRETE PAVEMENT 10-INCH, DOWELED (HIGH PERFORMANCE)
- CP22 COLORED CONCRETE PAVEMENT 10-INCH
- DR01 CONCRETE DRIVEWAY 6-INCH
- DR02 ASPHALTIC SURFACE DRIVEWAY (4-INCH) OVER BASE AGGREGATE DENSE 1-1/4-INCH (6-INCH)

NOTES:

1) PROVIDE 4% DRIVEWAY APRON CROSS SLOPE. TRANSITION TERRACE CROSS SLOPE TO MATCH 25' LEFT AND RIGHT OF DRIVEWAY.

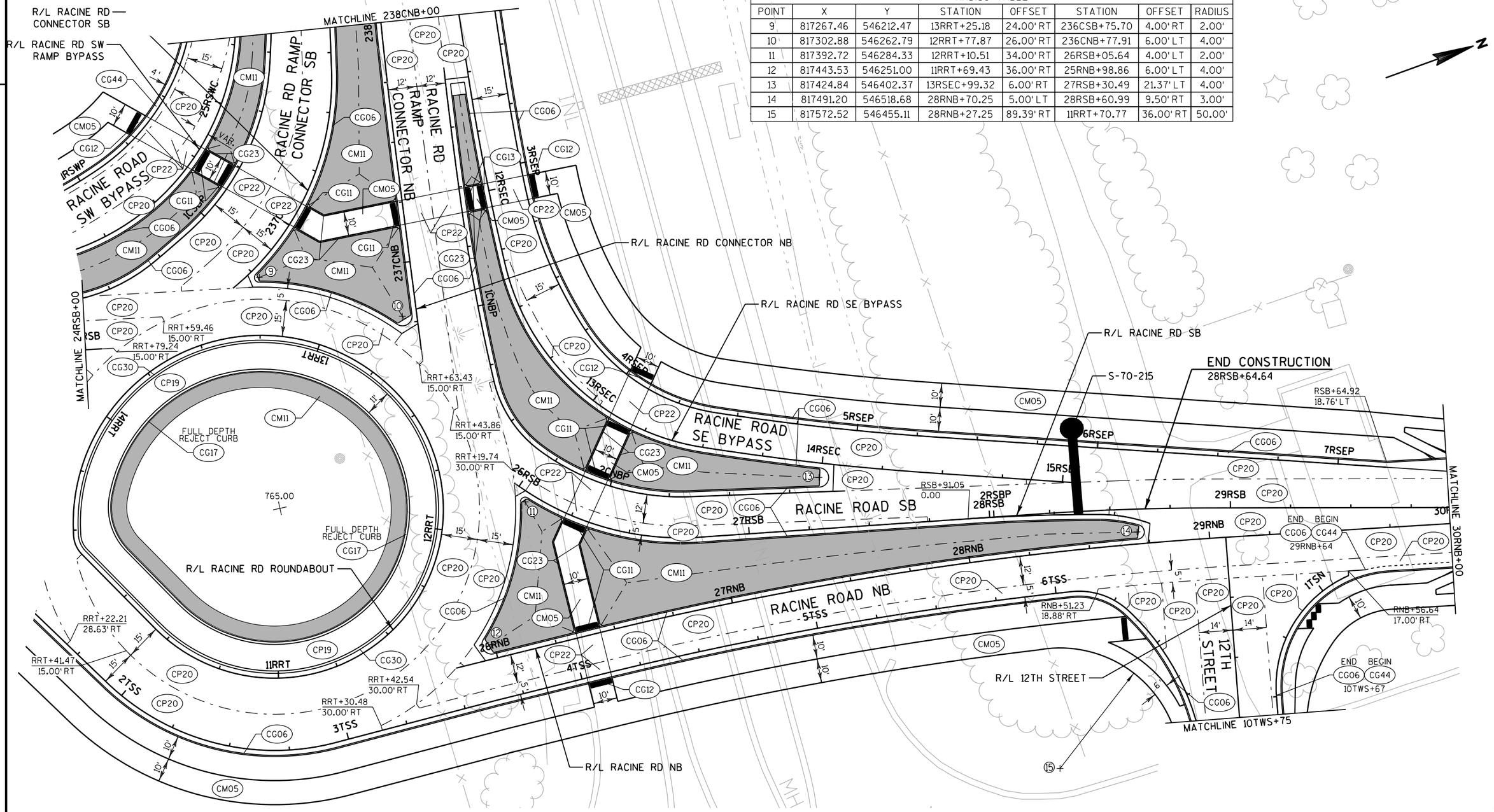
RADIUS TABLE

POINT	X	Y	STATION	OFFSET	STATION	OFFSET	RADIUS
7	817314.72	546088.81	23RNB+67.04	4.00' LT	14RRT+35.34	24.00' RT	2.00'
8	817274.34	546124.94	23RSB+91.88	6.00' RT	13RRT+93.85	26.00' RT	4.00'

PROJECT NO: 1517-75-76	HWY: USH 10	COUNTY: WINNEBAGO	PLAN DETAILS	SHEET 56	E

2

RADIUS TABLE							
POINT	X	Y	STATION	OFFSET	STATION	OFFSET	RADIUS
9	817267.46	546212.47	13RRT+25.18	24.00' RT	236CSB+75.70	4.00' RT	2.00'
10	817302.88	546262.79	12RRT+77.87	26.00' RT	236CNB+77.91	6.00' LT	4.00'
11	817392.72	546284.33	12RRT+10.51	34.00' RT	26RSB+05.64	4.00' LT	2.00'
12	817443.53	546251.00	11RRT+69.43	36.00' RT	25RNB+98.86	6.00' LT	4.00'
13	817424.84	546402.37	13RSEC+99.32	6.00' RT	27RSB+30.49	21.37' LT	4.00'
14	817491.20	546518.68	28RNB+70.25	5.00' LT	28RSB+60.99	9.50' RT	3.00'
15	817572.52	546455.11	28RNB+27.25	89.39' RT	11RRT+70.77	36.00' RT	50.00'

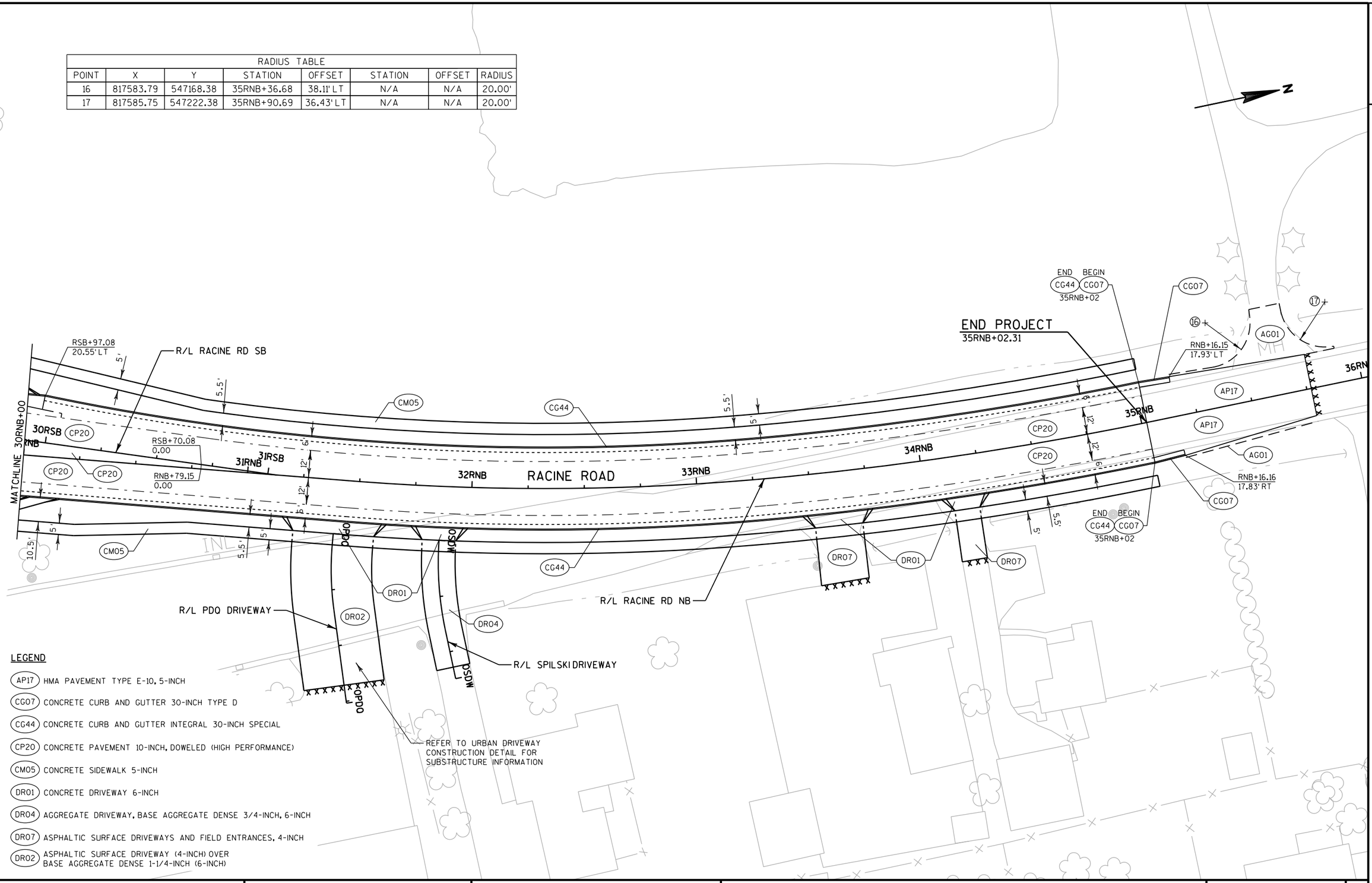


LEGEND

CG06 CONCRETE CURB AND GUTTER 30-INCH TYPE A	CG17 CONCRETE CURB AND GUTTER 18-INCH TYPE A	CM05 CONCRETE SIDEWALK 5-INCH	CP22 COLORED CONCRETE PAVEMENT 10-INCH
CG11 CURB RAMP TYPE 6	CG23 CONCRETE CURB PEDESTRIAN	CM11 COLORED AND STAMPED CONCRETE 5-INCH	
CG12 CURB RAMP TYPE 1	CG30 CONCRETE CURB AND GUTTER 36-INCH TYPE R MODIFIED FULL DEPTH	CP19 CONCRETE ROUNDABOUT TRUCK APRON 12-INCH	
CG13 CURB RAMP TYPE 5	CG44 CONCRETE CURB AND GUTTER INTEGRAL 30-INCH SPECIAL	CP20 CONCRETE PAVEMENT 10-INCH, DOWELED (HIGH PERFORMANCE)	

PROJECT NO: 1517-75-76	HWY: USH 10	COUNTY: WINNEBAGO	PLAN DETAILS	SHEET 57	E

RADIUS TABLE							
POINT	X	Y	STATION	OFFSET	STATION	OFFSET	RADIUS
16	817583.79	547168.38	35RNB+36.68	38.11' LT	N/A	N/A	20.00'
17	817585.75	547222.38	35RNB+90.69	36.43' LT	N/A	N/A	20.00'



LEGEND

- AP17 HMA PAVEMENT TYPE E-10, 5-INCH
- CG07 CONCRETE CURB AND GUTTER 30-INCH TYPE D
- CG44 CONCRETE CURB AND GUTTER INTEGRAL 30-INCH SPECIAL
- CP20 CONCRETE PAVEMENT 10-INCH, DOWELED (HIGH PERFORMANCE)
- CM05 CONCRETE SIDEWALK 5-INCH
- DR01 CONCRETE DRIVEWAY 6-INCH
- DR04 AGGREGATE DRIVEWAY, BASE AGGREGATE DENSE 3/4-INCH, 6-INCH
- DR07 ASPHALTIC SURFACE DRIVEWAYS AND FIELD ENTRANCES, 4-INCH
- DR02 ASPHALTIC SURFACE DRIVEWAY (4-INCH) OVER BASE AGGREGATE DENSE 1-1/4-INCH (6-INCH)

2

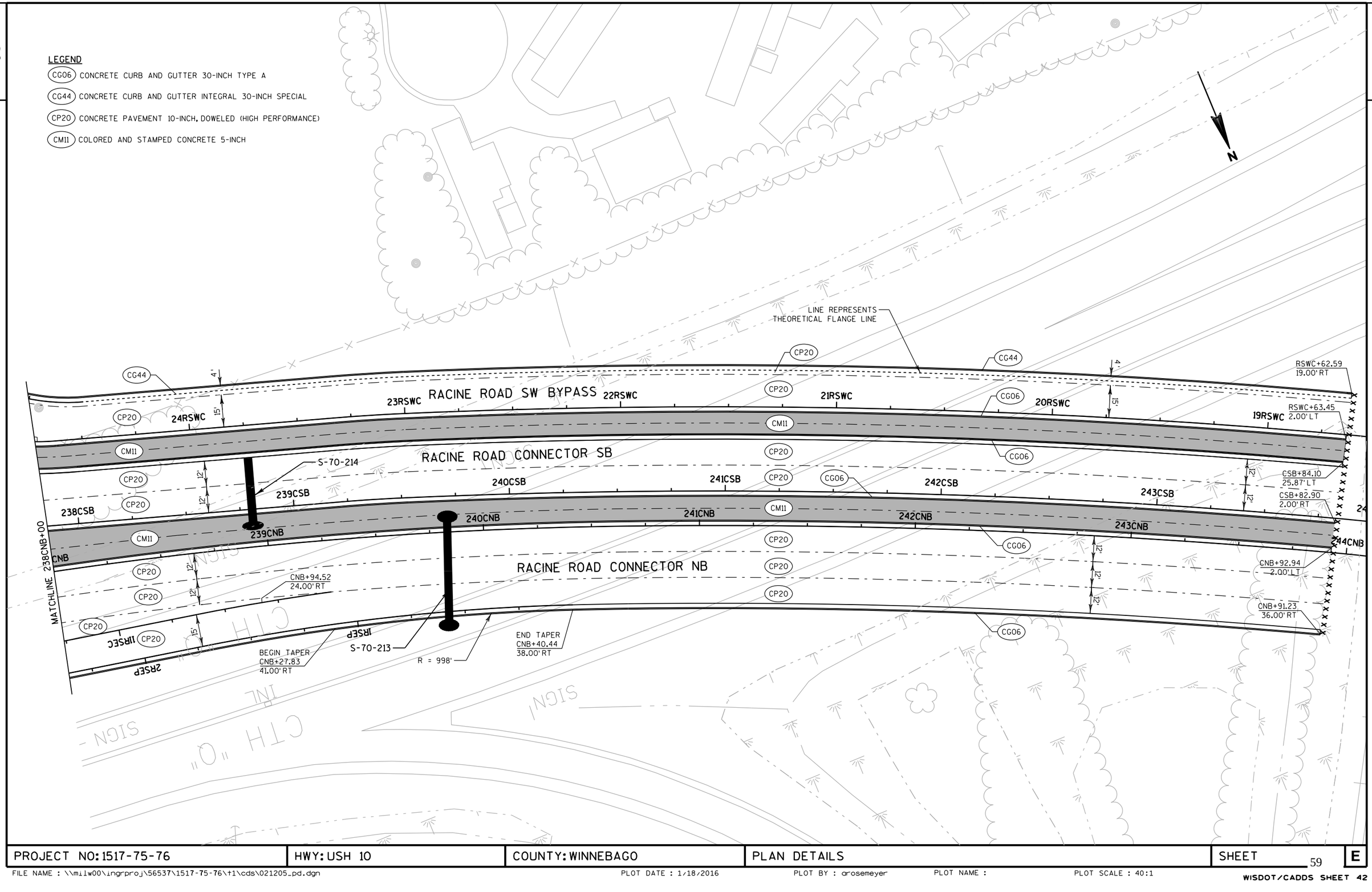
LEGEND

CG06 CONCRETE CURB AND GUTTER 30-INCH TYPE A

CG44 CONCRETE CURB AND GUTTER INTEGRAL 30-INCH SPECIAL

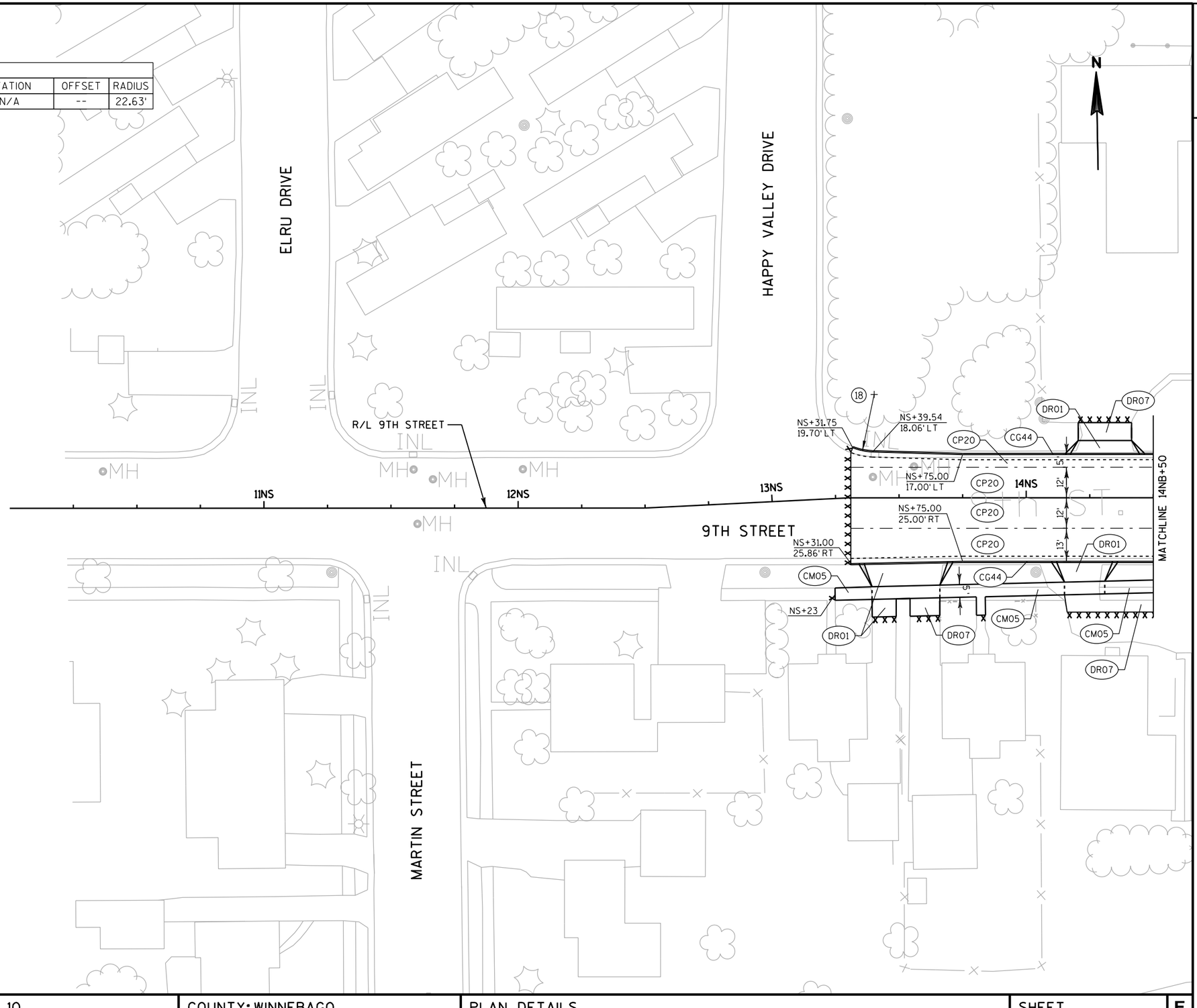
CP20 CONCRETE PAVEMENT 10-INCH, DOWELED (HIGH PERFORMANCE)

CM11 COLORED AND STAMPED CONCRETE 5-INCH



PROJECT NO: 1517-75-76	HWY: USH 10	COUNTY: WINNEBAGO	PLAN DETAILS	SHEET 59	E

RADIUS TABLE							
POINT	X	Y	STATION	OFFSET	STATION	OFFSET	RADIUS
18	816953.89	545363.43	13NS+40.22	40.69'LT	N/A	--	22.63'



LEGEND

- (CG44) CONCRETE CURB AND GUTTER INTEGRAL 30-INCH SPECIAL
- (CP20) CONCRETE PAVEMENT 10-INCH, DOWELED (HIGH PERFORMANCE)
- (CM05) CONCRETE SIDEWALK 5-INCH
- (DR01) CONCRETE DRIVEWAY 6-INCH
- (DR07) ASPHALTIC SURFACE DRIVEWAYS AND FIELD ENTRANCES, 4-INCH

2

N

WARSAW STREET

CURB CUT REQ'D
STA 16NS+61 TO STA 17NS+15

DR07 CG44 DR01 DR01 DR01 DR04 DR01

NS+81.14
22.00' LT

CP20

NS+20.00
22.00' LT

MATCHLINE 17NB+00

11' 13' 12' 12' 12' 5'

R/L 9TH STREET

18NS

9TH STREET

CP20 19NS

12' 12' 10'

NS+17.03
28.96' RT

NS+50.70
25.59' RT

DR01 DR01 CG44 DR01

CP20 CP20 CP20

12' 10'

NS+20.00
22.00' RT

NS+23

CM05 CM05 CM05 CM05

6.5' 5'

DR01

DR07

WARSAW STREET

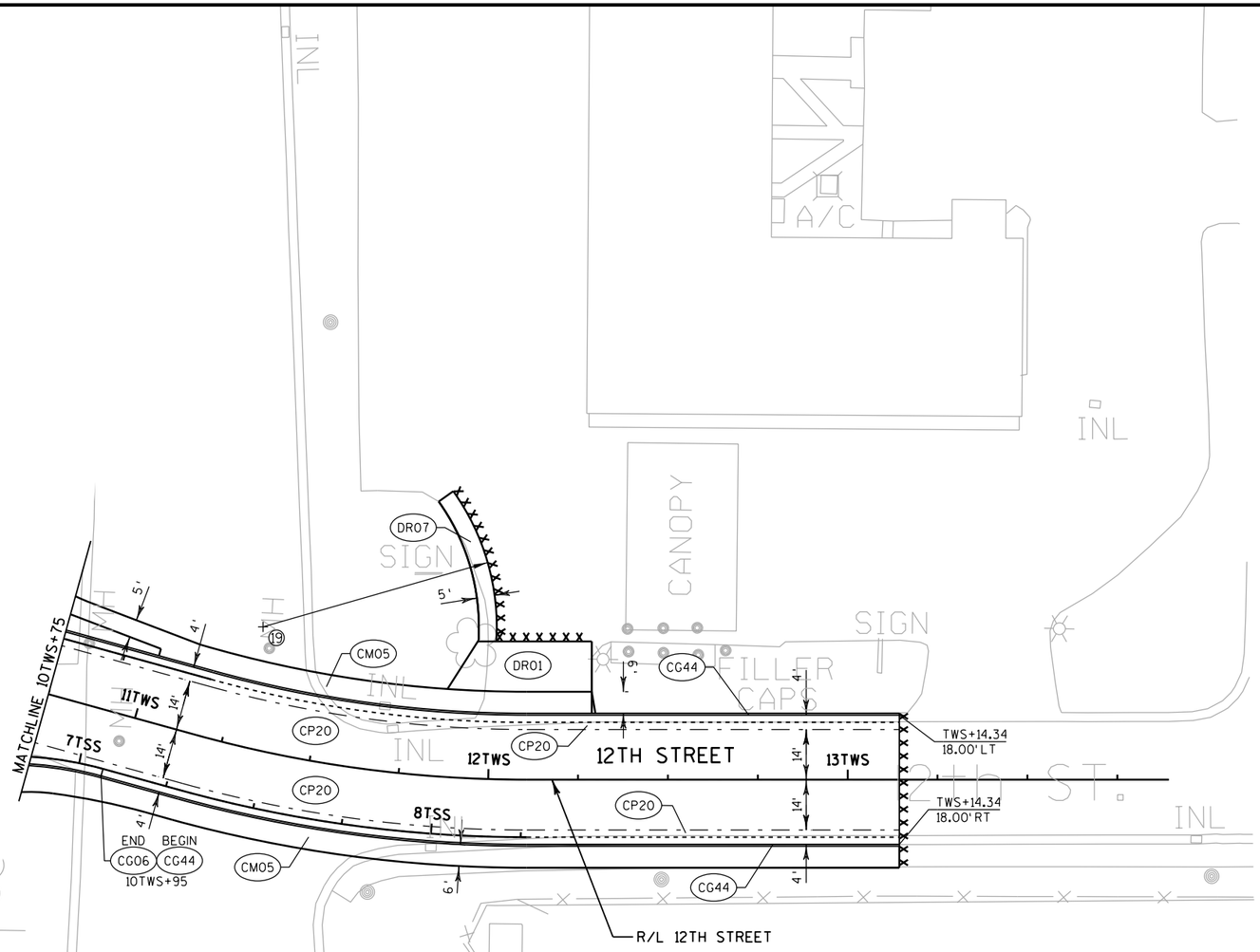
LEGEND

- CG44 CONCRETE CURB AND GUTTER INTEGRAL 30-INCH SPECIAL
- CP20 CONCRETE PAVEMENT 10-INCH, DOWELED (HIGH PERFORMANCE)
- CM05 CONCRETE SIDEWALK 5-INCH
- DR01 CONCRETE DRIVEWAY 6-INCH
- DR04 AGGREGATE DRIVEWAY, BASE AGGREGATE DENSE 3/4-INCH, 6-INCH
- DR07 ASPHALTIC SURFACE DRIVEWAYS AND FIELD ENTRANCES, 4-INCH

PROJECT NO: 1517-75-76	HWY: USH 10	COUNTY: WINNEBAGO	PLAN DETAILS	SHEET 61	E

2

N



LEGEND

- CG06 CONCRETE CURB AND GUTTER 30-INCH TYPE A
- CG44 CONCRETE CURB AND GUTTER INTEGRAL 30-INCH SPECIAL
- CP20 CONCRETE PAVEMENT 10-INCH, DOWELED (HIGH PERFORMANCE)
- CM05 CONCRETE SIDEWALK 5-INCH
- DR01 CONCRETE DRIVEWAY 6-INCH
- DR07 ASPHALTIC SURFACE DRIVEWAYS AND FIELD ENTRANCES, 4-INCH

RADIUS TABLE

POINT	X	Y	STATION	OFFSET	STATION	OFFSET	RADIUS
19	817637.88	546550.81	11TWS+28.67	33.78' LT	7TSS+40.83	49.78' LT	65.00'

2

2

N

MATCHLINE 14NB+50

R/L 9TH STREET

R/L VALLEY MUFFLER & BRAKE PARKING

R/L RACINE RD NB

RACINE ROAD SB

RACINE ROAD NB

1VMB

15NS

16NS

17NS

18RNB+00

MATCHLINE 18RNB+00

MATCHLINE 17NB+00

9TH STREET

BEGIN PROJECT
13RNB+50.00

CONCRETE STEP
SEE CONSTRUCTION
DETAIL

CURB CUT REQ'D
STA 16NS+61 TO STA 17NS+15

13RNB

14RNB

15RNB

16RNB

17RNB

MATCH EXISTING 36.50' LT

RNB+67.59 36.50' LT

RNB+78.07 36.50' LT

MATCH EXISTING 36.50' LT

RNB+16.27 36.50' LT

RNB+28.99 36.50' LT

RNB+77.34 36.50' LT

RNB+87.09 36.50' LT

RNB+92.87 36.50' LT

RNB+03.87 36.50' LT

MATCH EXISTING 39.50' LT

MATCH EXISTING 45.00' LT

MATCH EXISTING 45.00' RT

RNB+28.63 29.24' LT

RNB+64.59 21.50' LT

RNB+81.07 21.50' LT

RNB+13.27 21.50' LT

RNB+31.99 22.09' LT

MATCH EXISTING 36.50' LT

RNB+74.34 23.50' LT

RNB+06.87 23.50' LT

RNB+23.33 27.33' LT

RNB+28.91 24.78' LT

RNB+23.95 23.93' LT

RNB+06.74 44.29' LT

RNB+81.41 23.00' RT

RNB+99.45 23.00' RT

RNB+84.41 37.50' RT

RNB+96.45 37.50' RT

MATCH EXISTING 37.02' RT

MATCH EXISTING 42.50' RT

RNB+60.94 23.50' RT

RNB+85.44 23.50' RT

RNB+08.23 23.50' RT

RNB+42.23 23.50' RT

RNB+66.97 37.00' RT

RNB+11.23 37.00' RT

RNB+39.23 37.00' RT

RNB+63.94 32.19' RT

RNB+92.46 37.00' RT

RNB+26.90 23.52' RT

RNB+27.16 27.57' RT

RNB+32.00 24.92' RT

RNB+32.33 30.20' RT

NS+02.58 29.63' RT

NS+02.58 35.22' RT

NS+07.58 29.50' RT

NS+07.58 35.00' RT

NS+67.97 45.46' RT

NS+70.06 49.50' RT

NS+69.14 29.50' RT

NS+04.32 31.11' RT

NS+04.37 25.50' RT

NS+09.37 25.50' RT

NS+09.33 31.00' RT

NS+12.20 24.23' LT

NS+06.57 49.39' LT

NS+06.85 20.29' LT

RNB+10.15 74.25' LT

RNB+10.15 54.15' LT

RNB+11.59 49.00' LT

RNB+11.77 43.51' LT

MATCH EXISTING 74.25' LT

RNB+48.14 74.25' LT

RNB+16.08 43.50' LT

RNB+46.35 43.50' LT

RNB+14.32 32.98' RT

RNB+14.55 39.73' RT

RNB+09.43 36.25' RT

RNB+24.57 42.90' RT

RNB+76.76 30.50' RT

RNB+30.76 30.50' RT

NS+02.57 30.51' LT

NS+07.58 27.50' LT

RNB+38.21 41.00' RT

NS+02.50 34.21' LT

RNB+29.00 51.50' RT

NS+17.44 36.50' LT

NS+61.50 25.50' LT

RNB+79.80 55.01' RT

RNB+27.81 61.17' RT

RNB+49.75 41.00' RT

RNB+94.75 45.50' RT

25'

5'

11'

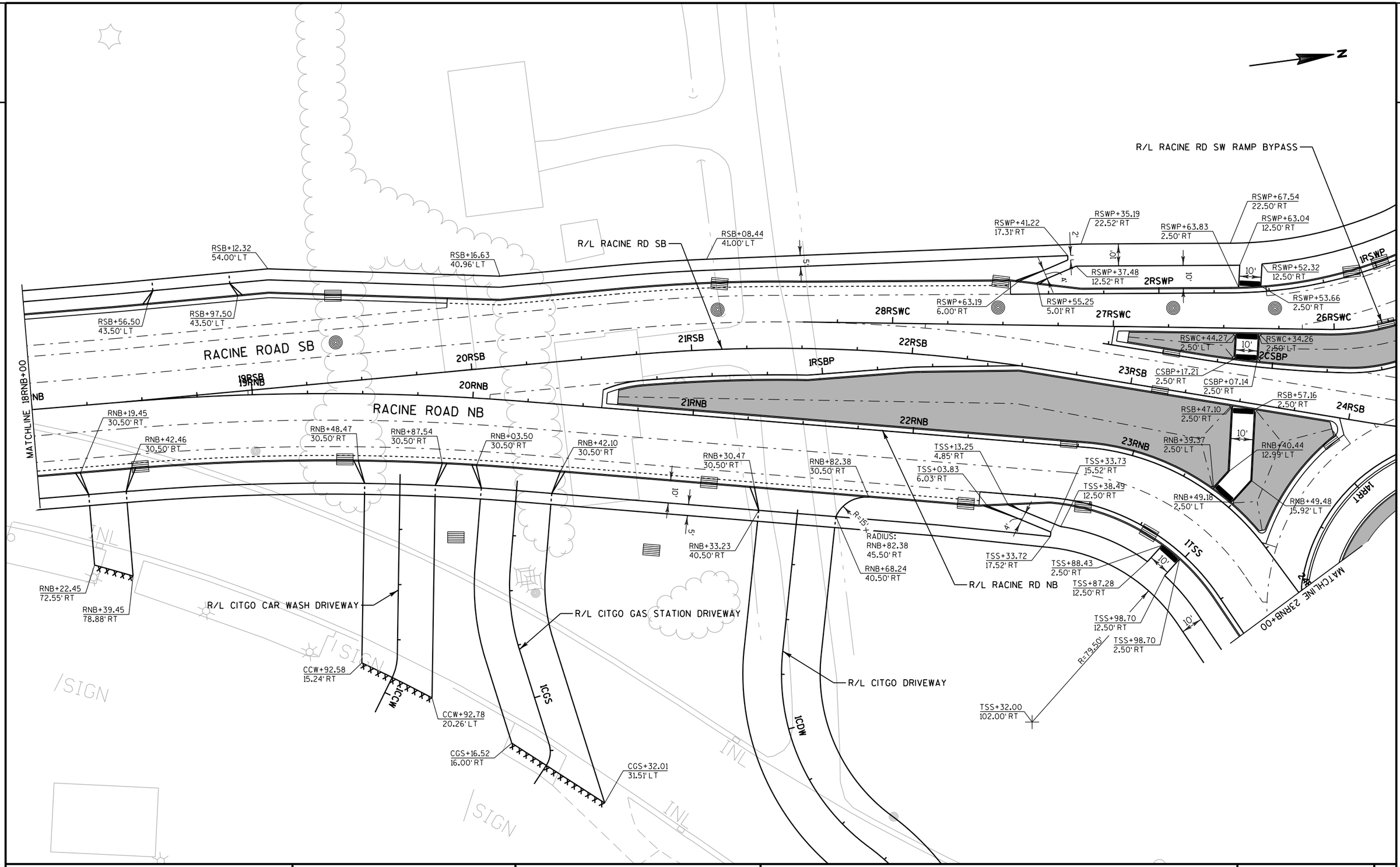
5'

PROJECT NO: 1517-75-76	HWY: USH 10	COUNTY: WINNEBAGO	PLAN DETAILS - DRIVEWAYS AND SIDEWALKS	SHEET 63	E

FILE NAME : \\milw00\ingrproj\56537\1517-75-76\t1\cds\021209_pd.dgn PLOT DATE : 1/18/2016 PLOT BY : grosemeyer PLOT NAME : PLOT SCALE : 40:1

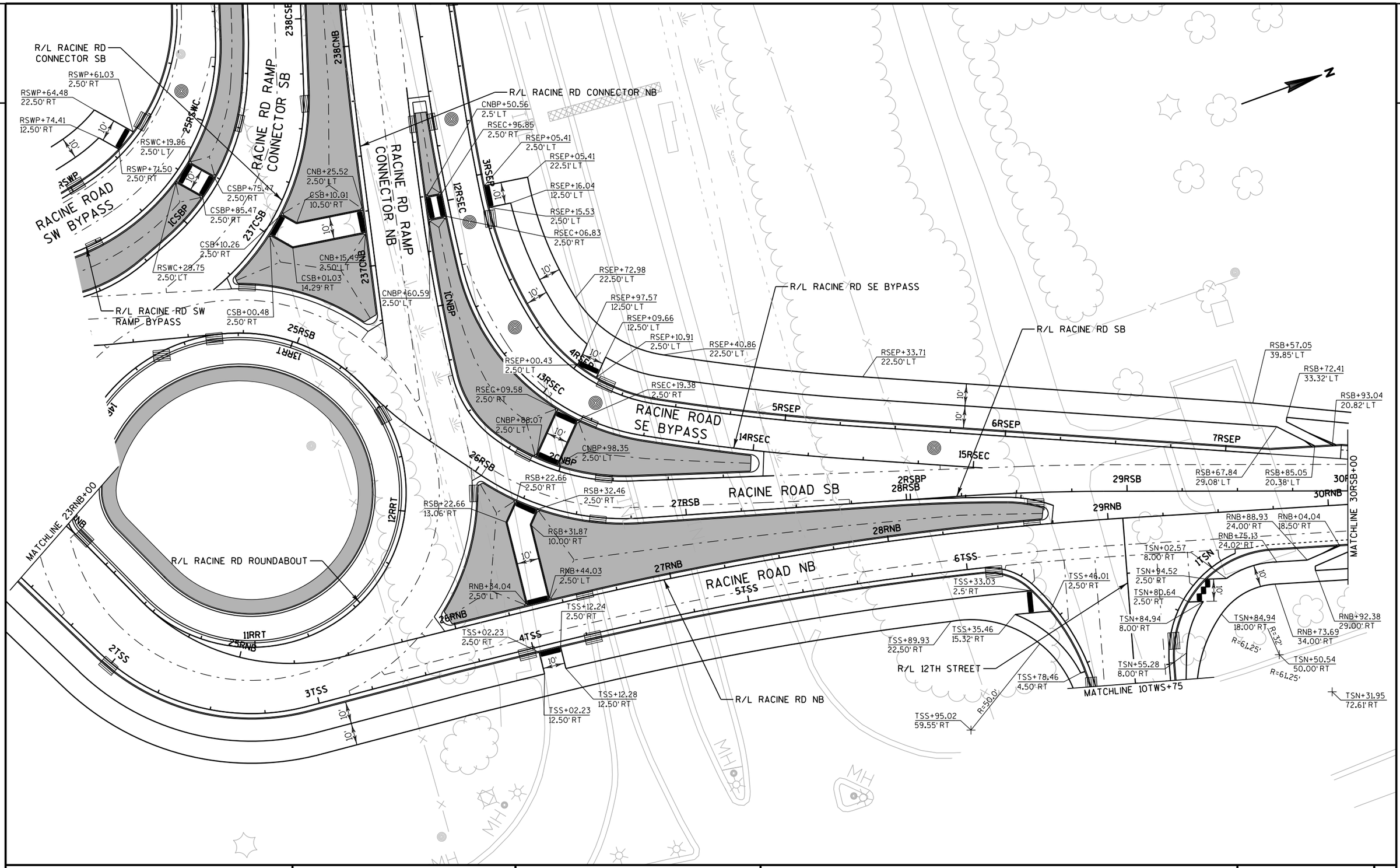
WISDOT/CADDS SHEET 42

2



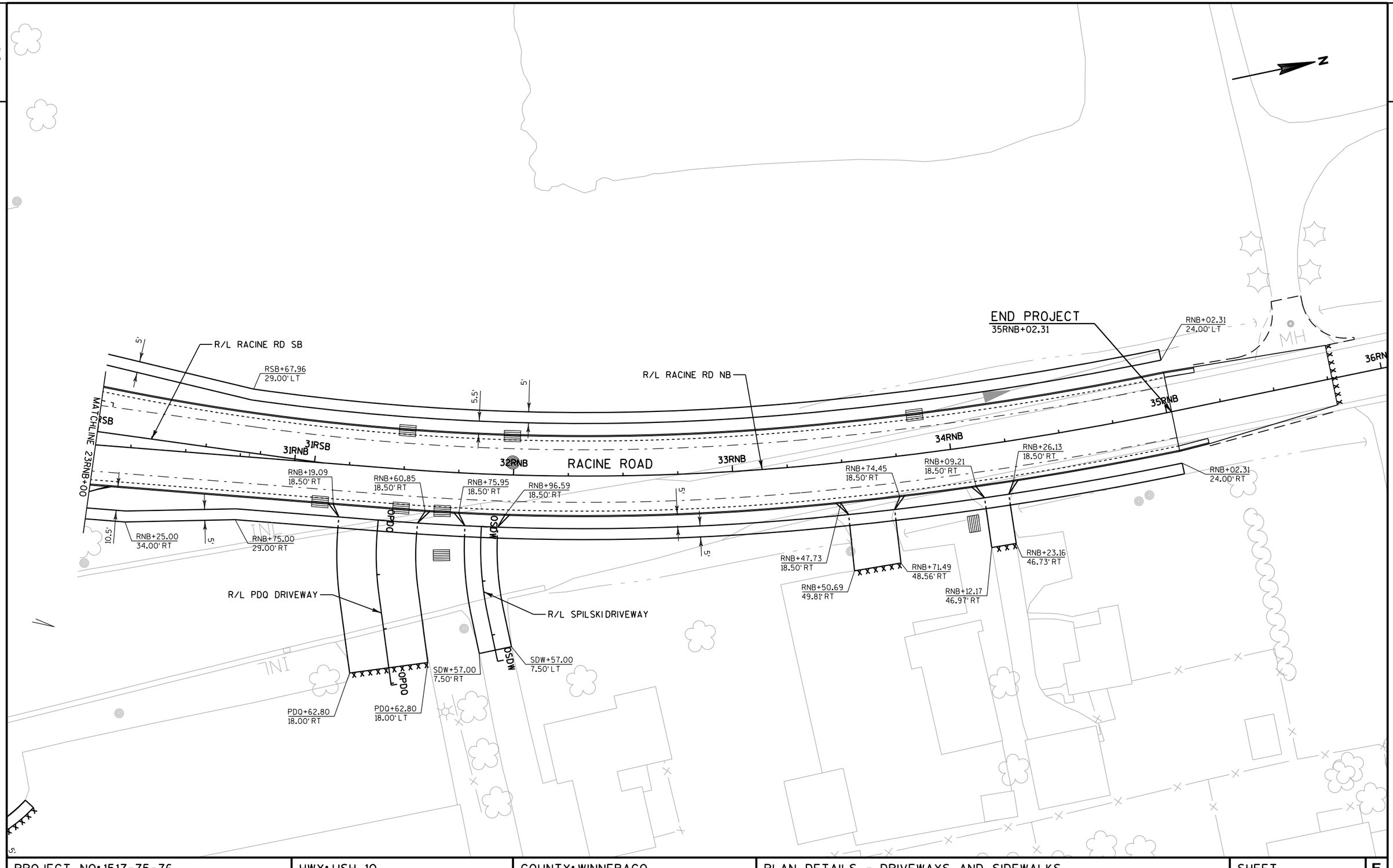
PROJECT NO: 1517-75-76	HWY: USH 10	COUNTY: WINNEBAGO	PLAN DETAILS - DRIVEWAYS AND SIDEWALKS	SHEET 64	E

2



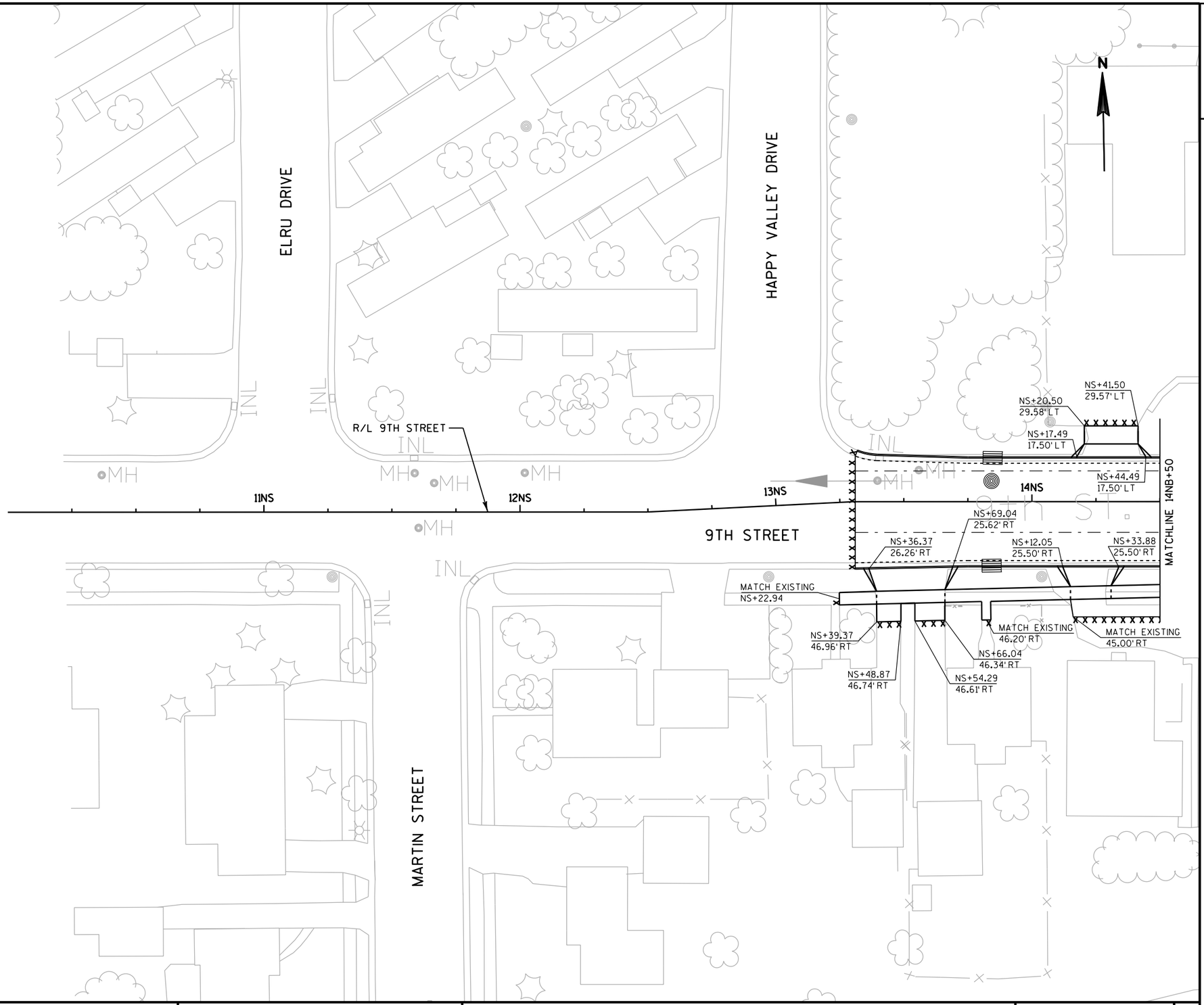
PROJECT NO: 1517-75-76	HWY: USH 10	COUNTY: WINNEBAGO	PLAN DETAILS - DRIVEWAYS AND SIDEWALKS	SHEET 65	E

2



PROJECT NO: 1517-75-76	HWY: USH 10	COUNTY: WINNEBAGO	PLAN DETAILS - DRIVEWAYS AND SIDEWALKS	SHEET 66	E

2



PROJECT NO: 1517-75-76	HWY: USH 10	COUNTY: WINNEBAGO	PLAN DETAILS - DRIVEWAYS AND SIDEWALKS	SHEET 67	E

2

N

WARSAW STREET

CURB CUT REQ'D
STA 16NS+61 TO STA 17NS+15

R/L 9TH STREET

MATCHLINE 17NB+00

NS+23.78
36.96' LT

NS+36.63
30.50' LT

NS+33.63
25.00' LT

NS+24.35
25.50' LT

NS+15.50
25.00' LT

NS+84.63
30.50' LT

NS+87.63
25.50' LT

NS+09.17
25.50' LT

NS+12.17
30.50' LT

NS+37.68
29.70' LT

NS+40.42
24.56' LT

NS+83.01
32.00' LT

NS+80.01
22.56' LT

NS+91.26
32.00' LT

NS+94.26
22.50' LT

NS+04.52
31.00' LT

NS+01.52
22.50' LT

NS+13.02
31.00' LT

NS+16.02
22.50' LT

18NS

9TH STREET

19NS

NS+09.47
29.50' RT

NS+38.89
27.27' RT

NS+54.09
25.92' RT

NS+96.19
23.79' RT

NS+10.42
23.07' RT

NS+62.84
22.50' RT

NS+76.59
22.50' RT

MATCH EXISTING
NS+23.23

MATCH EXISTING
39.00' RT

NS+73.59
39.00' RT

NS+51.94
42.80' RT

MATCH EXISTING
39.33' RT

NS+65.84
39.00' RT

NS+42.70
43.39' RT

NS+00.01
40.12' RT

NS+08.25
39.70' RT

MATCH EXISTING
45.00' RT

MATCH EXISTING
41.81' RT

NS+06.47
49.50' RT

WARSAW STREET

PROJECT NO: 1517-75-76	HWY: USH 10	COUNTY: WINNEBAGO	PLAN DETAILS - DRIVEWAYS AND SIDEWALKS	SHEET 68	E

2

N

TSN+31.95
72.61' RT

TWS+84.15
79.50' LT

TSN+37.76
11.62' RT

TWS+79.23
76.26' LT

TSN+15.74
4.50' RT

R=60.00'

TSN+05.49
88.55' RT

TWS+01.19
38.38' LT

TWS+95.43
38.20' LT

TWS+28.82
38.50' LT

TWS+87.00
24.50' LT

TWS+28.82
24.50' LT

MATCHLINE 10TWS+75

11TWS

7TSS

TWS+86.00
18.50' LT

TWS+29.82
18.50' LT

12TWS

13TWS

12TH STREET

8TSS

TSS+93.95
9.55' RT

R=191.50'

TSS+21.41
8.50' RT

TWS+14.34
24.50' RT

INL

A/C

CANOPY

SIGN

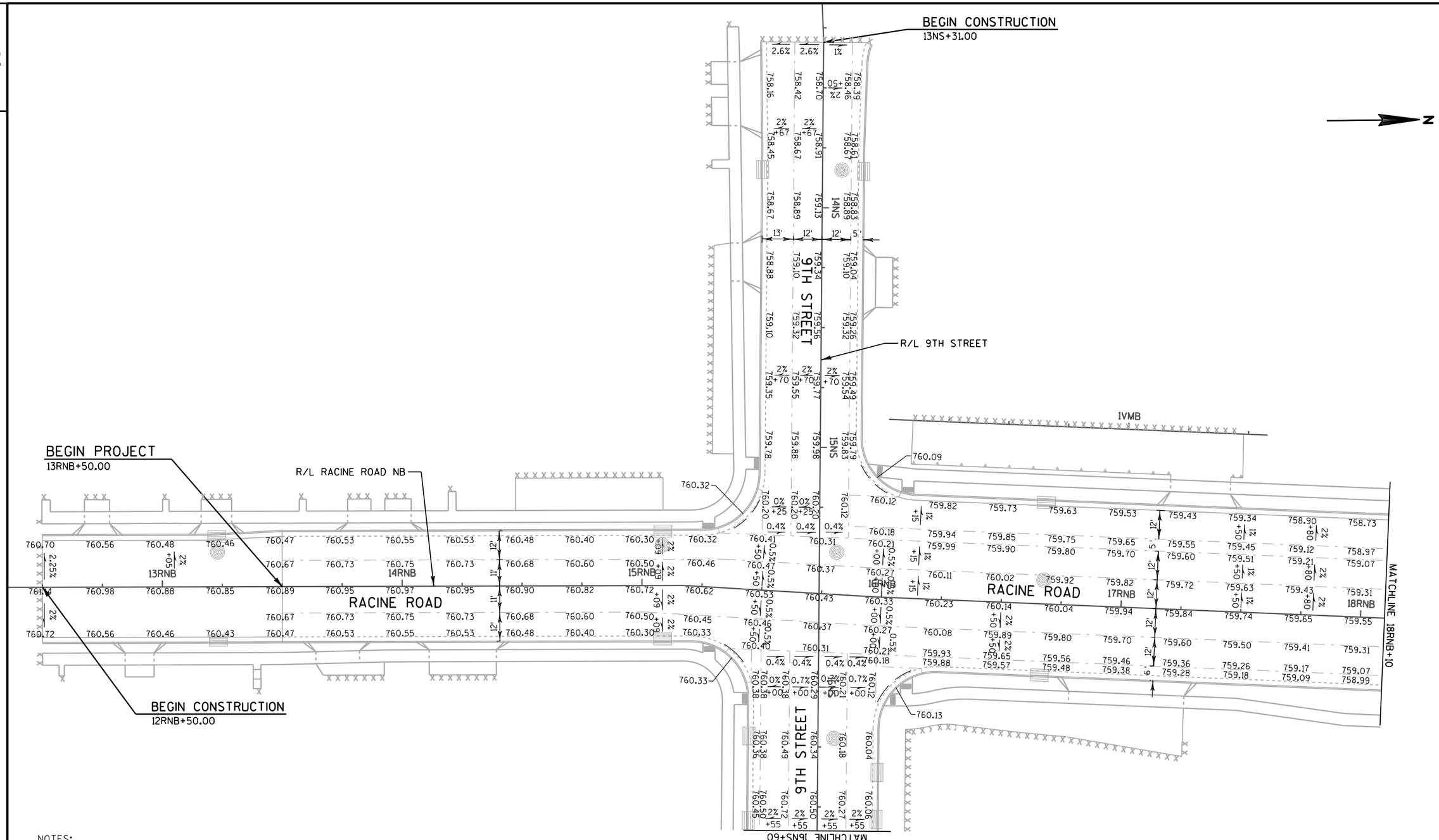
FILLER CAPS

MH

ATHLETIC FIELD

PROJECT NO: 1517-75-76	HWY: USH 10	COUNTY: WINNEBAGO	PLAN DETAILS - DRIVEWAYS AND SIDEWALKS	SHEET 69	E

2



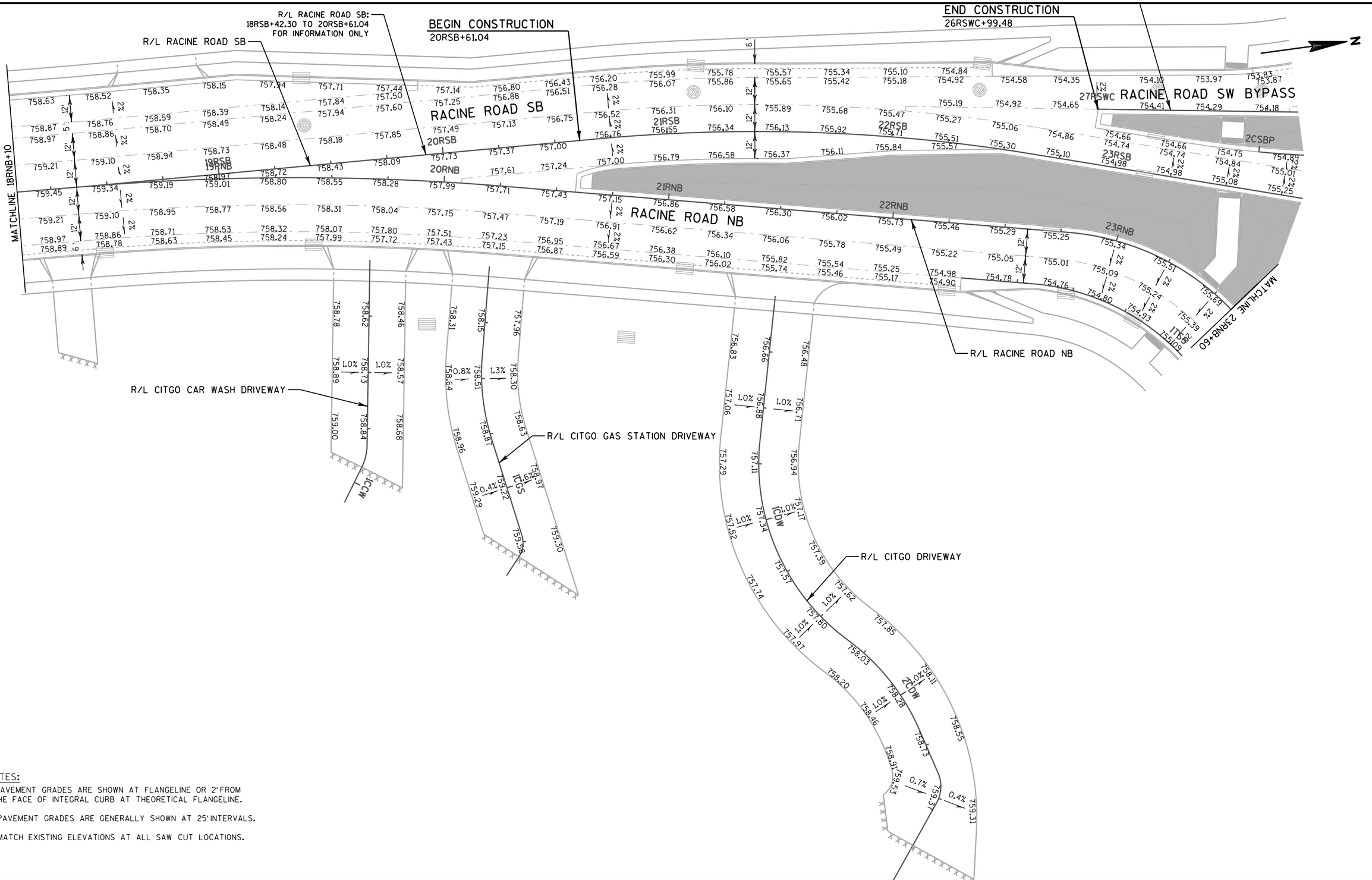
NOTES:

1) PAVEMENT GRADES ARE SHOWN AT FLANGELINE OR 2' FROM THE FACE OF INTEGRAL CURB AT THEORETICAL FLANGELINE.

2) PAVEMENT GRADES ARE GENERALLY SHOWN AT 25' INTERVALS.

3) MATCH EXISTING ELEVATIONS AT ALL SAW CUT LOCATIONS.

PROJECT NO: 1517-75-76	HWY: USH 10	COUNTY: WINNEBAGO	PAVING GRADES: RACINE ROAD/CTH P	SHEET 70	E



NOTES:

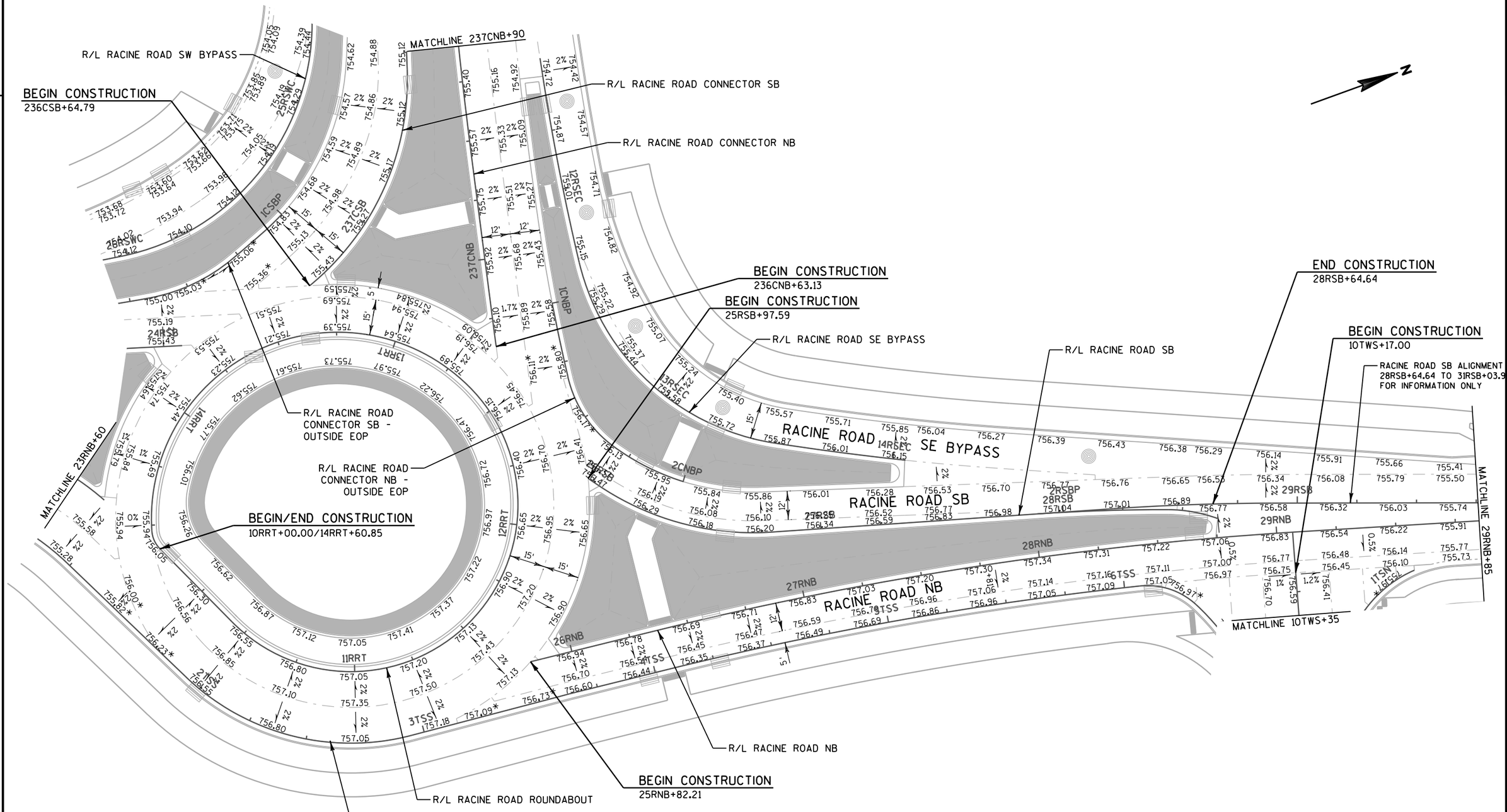
1) PAVEMENT GRADES ARE SHOWN AT FLANGELINE OR 2' FROM THE FACE OF INTEGRAL CURB AT THEORETICAL FLANGELINE.

2) PAVEMENT GRADES ARE GENERALLY SHOWN AT 25' INTERVALS.

3) MATCH EXISTING ELEVATIONS AT ALL SAW CUT LOCATIONS.

PROJECT NO: 1517-75-76	HWY: USH 10	COUNTY: WINNEBAGO	PAVING GRADES: RACINE ROAD/CTH P	SHEET 71	E

2



NOTES:

1) PAVEMENT GRADES ARE SHOWN AT FLANGELINE OR 2' FROM THE FACE OF INTEGRAL CURB AT THEORETICAL FLANGELINE.

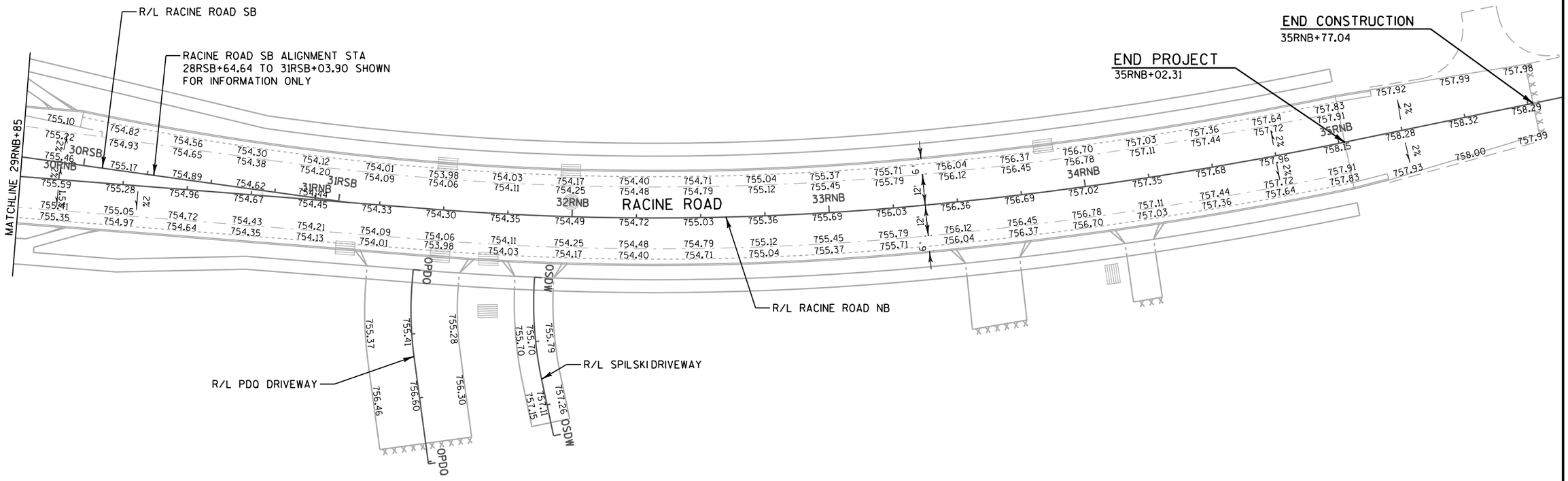
2) PAVEMENT GRADES ARE GENERALLY SHOWN AT 25' INTERVALS.

3) MATCH EXISTING ELEVATIONS AT ALL SAW CUT LOCATIONS.

* ELEVATIONS REFERENCED OFF CURB ALIGNMENTS

PROJECT NO: 1517-75-76	HWY: USH 10	COUNTY: WINNEBAGO	PAVING GRADES: RACINE ROAD/RAMP CONNECTOR ROUNDABOUT	SHEET 72	E

2



NOTES:

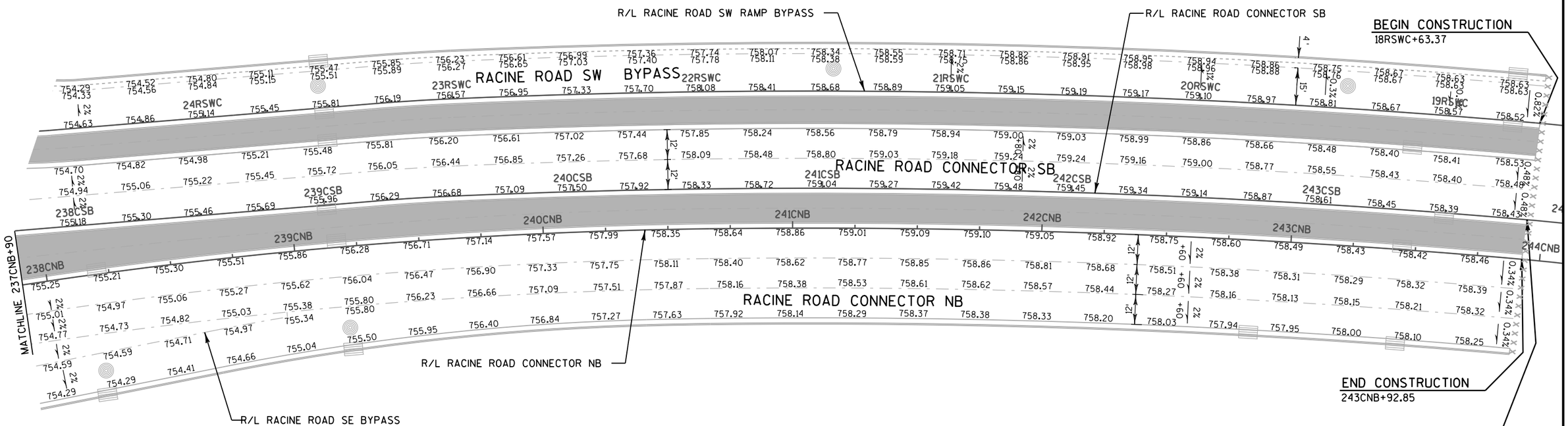
1) PAVEMENT GRADES ARE SHOWN AT FLANGELINE OR 2' FROM THE FACE OF INTEGRAL CURB AT THEORETICAL FLANGELINE.

2) PAVEMENT GRADES ARE GENERALLY SHOWN AT 25' INTERVALS.

3) MATCH EXISTING ELEVATIONS AT ALL SAW CUT LOCATIONS.

PROJECT NO: 1517-75-76	HWY: USH 10	COUNTY: WINNEBAGO	PAVING GRADES: RACINE ROAD/CTH P	SHEET 73	E

2



NOTES:

1) PAVEMENT GRADES ARE SHOWN AT FLANGELINE OR 2' FROM THE FACE OF INTEGRAL CURB AT THEORETICAL FLANGELINE.

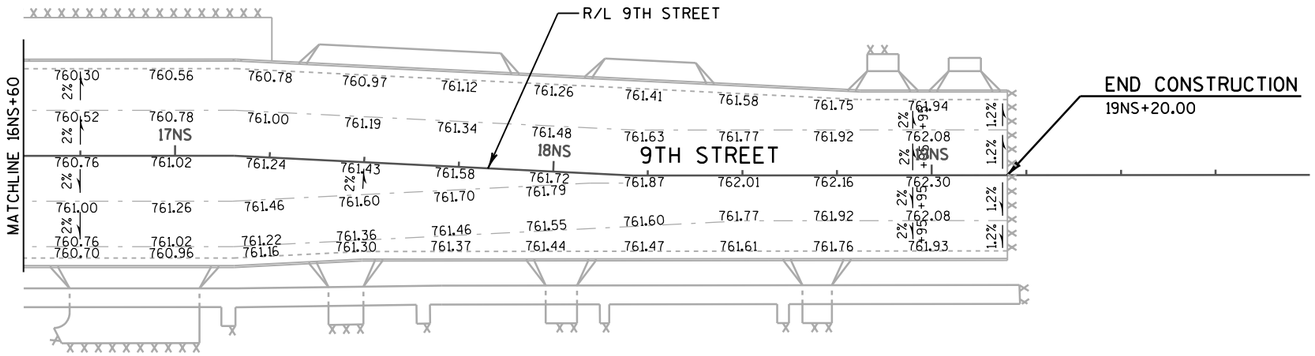
2) PAVEMENT GRADES ARE GENERALLY SHOWN AT 25' INTERVALS.

3) MATCH EXISTING ELEVATIONS AT ALL SAW CUT LOCATIONS.

PROJECT NO: 1517-75-76	HWY: USH 10	COUNTY: WINNEBAGO	PAVING GRADES: RACINE ROAD RAMP CONNECTOR	SHEET 74	E

2

N



NOTES:

1) PAVEMENT GRADES ARE SHOWN AT FLANGELINE OR 2' FROM THE FACE OF INTEGRAL CURB AT THEORETICAL FLANGELINE.

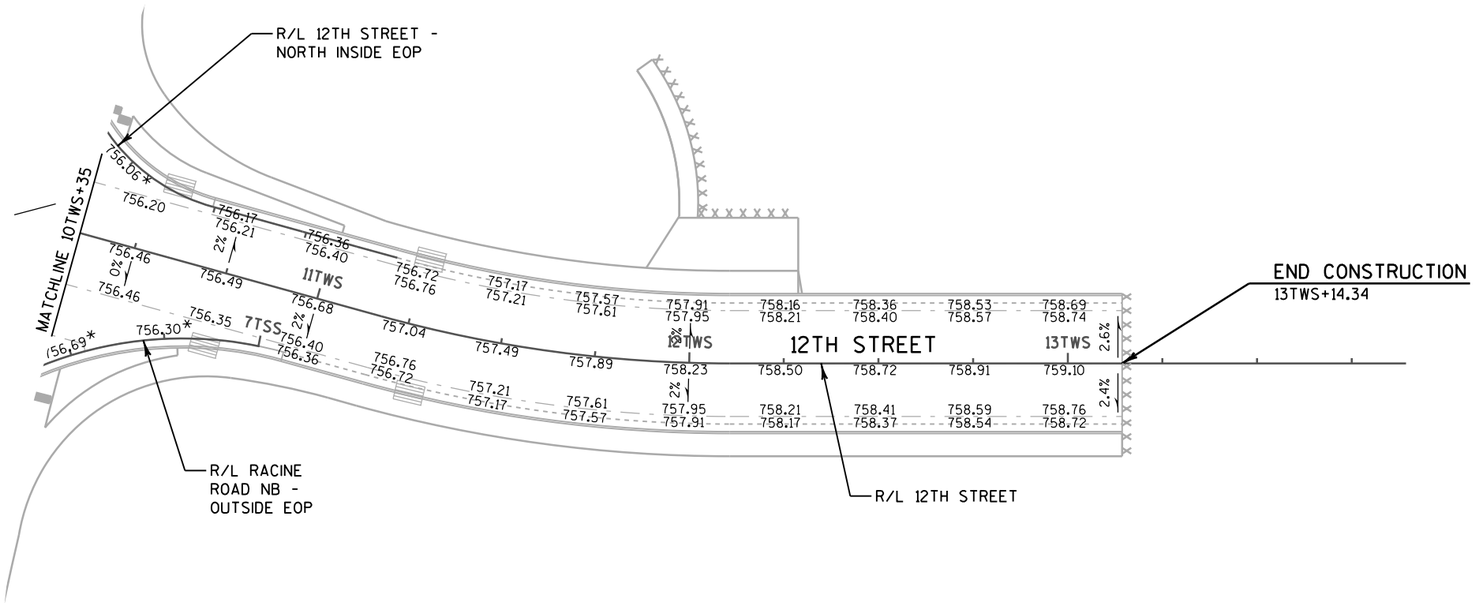
2) PAVEMENT GRADES ARE GENERALLY SHOWN AT 25' INTERVALS.

3) MATCH EXISTING ELEVATIONS AT ALL SAW CUT LOCATIONS.

PROJECT NO: 1517-75-76	HWY: USH 10	COUNTY: WINNEBAGO	PAVING GRADES: 9TH STREET	SHEET 75	E

2

N



NOTES:

1) PAVEMENT GRADES ARE SHOWN AT FLANGELINE OR 2' FROM THE FACE OF INTEGRAL CURB AT THEORETICAL FLANGELINE.

2) PAVEMENT GRADES ARE GENERALLY SHOWN AT 25' INTERVALS.

3) MATCH EXISTING ELEVATIONS AT ALL SAW CUT LOCATIONS.

* ELEVATIONS REFERENCED OFF CURB ALIGNMENTS

PROJECT NO: 1517-75-76	HWY: USH 10	COUNTY: WINNEBAGO	PAVING GRADES: 12TH STREET	SHEET 76	E

2

2

N

SLOPE INTERCEPT (TYP.)

WETLAND BOUNDARY (TYP.)

CANADIAN NATIONAL

246CNB
246CSB
244CNB
244CSB
242CNB
242CSB
240CNB
240CSB
238CNB
238CSB
18RSWC
20RSWC
22RSWC
24RSWC
26RSWC
30RSB
30RNB
32RNB
28RSB
28RNB
26RNB
22RSB
22RNB
12RSEC
12RNT
14RNT
12TW5

ATHLETIC FIELD

LEGEND

DISTURBED WETLANDS AREAS

WETLANDS

SLOPE INTERCEPT

WETLAND BOUNDARY

PROJECT NO: 1517-75-76	HWY: USH 10	COUNTY: WINNEBAGO	DISTURBED WETLANDS AREAS	SHEET 77	E

FILE NAME : \\milw00\ingrproj\56537\1517-75-76\t1\cds\021850_dw.dgn PLOT DATE : 1/18/2016 PLOT BY : arosemeyer PLOT NAME : PLOT SCALE : 100:1

WISDOT/CADDS SHEET 42

2

2

SLOPE INTERCEPT (TYP.)

WETLAND BOUNDARY (TYP.)

CANADIAN NATIONAL

246CNB
246CSB
18RSWC
244CNB
244CSB
242CNB
242CSB
20RSWC
240CNB
240CSB
22RSWC
238CNB
238CSB
24RSWC
26RSWC
22RSB
22RNB
14RSEC
28RSB
28RNB
12RSEC
12RNRT
14RNRT
30RSB
30RNB
32RNB
12TW5
25RNB

SIGN
INL
MH
A/C
CANOPY
LAPS
ATHLETIC FIELD
FILES
CAPS
GUY

N

LEGEND

- DISTURBED WETLANDS AREAS
- WETLANDS
- SLOPE INTERCEPT
- WETLAND BOUNDARY

PROJECT NO: 1517-75-76	HWY: USH 10	COUNTY: WINNEBAGO	DISTURBED WETLANDS AREAS	SHEET	E

FILE NAME : \\milw00\ingrproj\56537\1517-75-76\t1\cds\021850_dw.dgn PLOT DATE : 1/18/2016 PLOT BY : arosemeyer PLOT NAME : PLOT SCALE : 100:1

WISDOT/CADDS SHEET 42

2

N

MATCHLINE 16RNB+00

R/L 9TH STREET

9TH STREET

14NS 15NS 16NS 17NS 18NS 19NS

SLOPE INTERCEPT (TYP)

RACINE STREET

15RNB 14RNB 13RNB

R/L RACINE ROAD NB

1) AREAS BETWEEN THE BACK OF CURB AND SLOPE INTERCEPTS REQUIRE TOPSOIL (OR SALVAGED TOPSOIL), FERTILIZER, SEED, AND EROSION MAT OR MULCH. ADDITIONALLY, 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) RESTORATION AREAS ON THIS SHEET SHALL BE SEEDED WITH SEEDING MIXTURE NO. 40 ONLY.

EROSION CONTROL LEGEND

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

PROJECT NO: 1517-75-76	HWY: USH 10	COUNTY: WINNEBAGO	EROSION CONTROL: RACINE STREET / 9TH STREET	SHEET 79	E

1) AREAS BETWEEN THE BACK OF CURB AND SLOPE INTERCEPTS REQUIRE TOPSOIL (OR SALVAGED TOPSOIL), FERTILIZER, SEED, AND EROSION MAT OR MULCH. ADDITIONALLY, 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) RESORATION AREAS NORTH OF THE 'SEED BREAK LINE' ON THIS SHEET SHALL BE SEEDED WITH TEMPORARY SEED AND SEEDING MIXTURE NO. 20. AREAS TO THE SOUTH SHALL BE SEEDED WITH SEEDING MIXTURE NO. 40 ONLY.

PLANT DATA CHART

SYM.	COMMON NAME	SCIENTIFIC NAME	AVE. MATURE HEIGHT	SIZE WHEN PLANTED	ROOT ZONE MODE	MINIMUM BALL OR POT SIZE		MINIMUM HOLE SIZE		BRACE OR GUY	FERT. UNITS REQ'D	RODENT PROT'CT REQ'D	MULCH RING DIAM.
						DIAM.	DEPTH	DIAM.	DEPTH				
	DECIDUOUS TREES (SHADE)												
AB	Maple, Autumn Blaze	Acer x freemanii 'Jeffersred'	40'	2" CAL	B&B	24"	14"	48"	14"	GUY	4	NO	60"
SWO	Oak, Swamp White	Quercus bicolor	60'	2" CAL	B&B	24"	14"	48"	14"	GUY	4	NO	60"

N

1VMB
1 AB
1 SWO
1 AB
1 SWO
1 AB
SEED BREAK LINE
R/L RACINE ROAD SW BYPASS
SEEDING MIXTURE NO. 40
TEMPORARY SEEDING WITH SEEDING MIXTURE NO. 20
R/L RACINE ROAD NB
R/L RACINE ROAD SB
MATCHLINE 16RNB+00
NB
17RNB
18RNB
19RSB
19RNB
20RSB
20RNB
21RSB
28RSWC
22RS
RACINE ROAD SB
21RNB
SEEDING MIXTURE NO. 40
TEMPORARY SEEDING WITH SEEDING MIXTURE NO. 20
1 SWO
1 AB
1 SWO
RACINE ROAD NB
MATCHLINE 22RNB+00
SLOPE INTERCEPT (TYP)
R/L CITGO CAR WASH DRIVEWAY
R/L CITGO GAS STATION DRIVEWAY
ICCW
ICGS
ICDW
ASPH.
/SIGN
CONC.
AGG.

EROSION CONTROL LEGEND

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

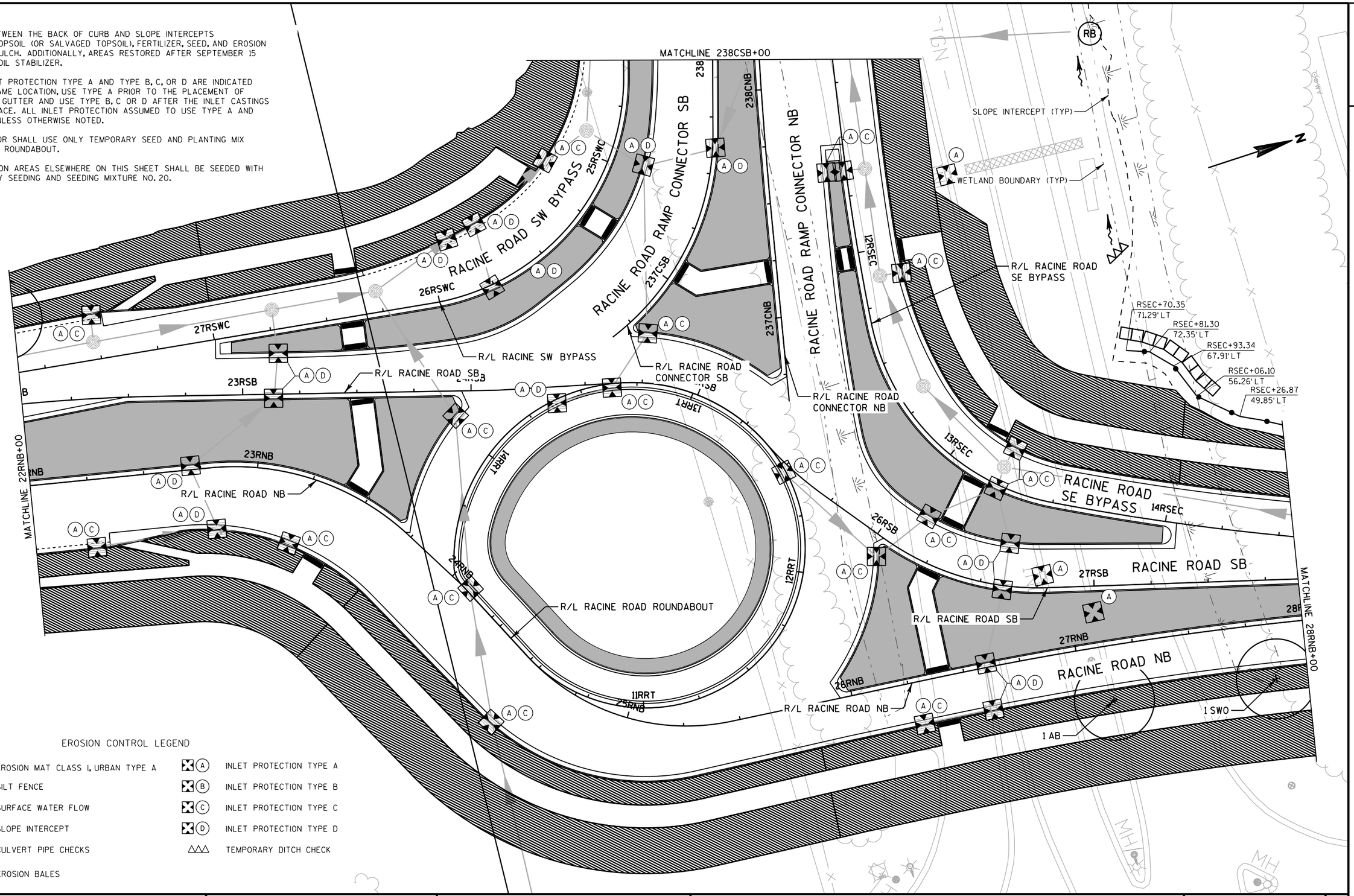
PROJECT NO: 1517-75-76	HWY: USH 10	COUNTY: WINNEBAGO	EROSION CONTROL: RACINE ROAD	SHEET 80	E

1) AREAS BETWEEN THE BACK OF CURB AND SLOPE INTERCEPTS REQUIRE TOPSOIL (OR SALVAGED TOPSOIL), FERTILIZER, SEED, AND EROSION MAT OR MULCH. ADDITIONALLY, 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) CONTRACTOR SHALL USE ONLY TEMPORARY SEED AND PLANTING MIX INSIDE THE ROUNDABOUT.

4) RESTORATION AREAS ELSEWHERE ON THIS SHEET SHALL BE SEEDED WITH TEMPORARY SEEDING AND SEEDING MIXTURE NO. 20.



EROSION CONTROL LEGEND

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

PROJECT NO: 1517-75-76	HWY: USH 10	COUNTY: WINNEBAGO	EROSION CONTROL: RACINE ROAD	SHEET 81	E

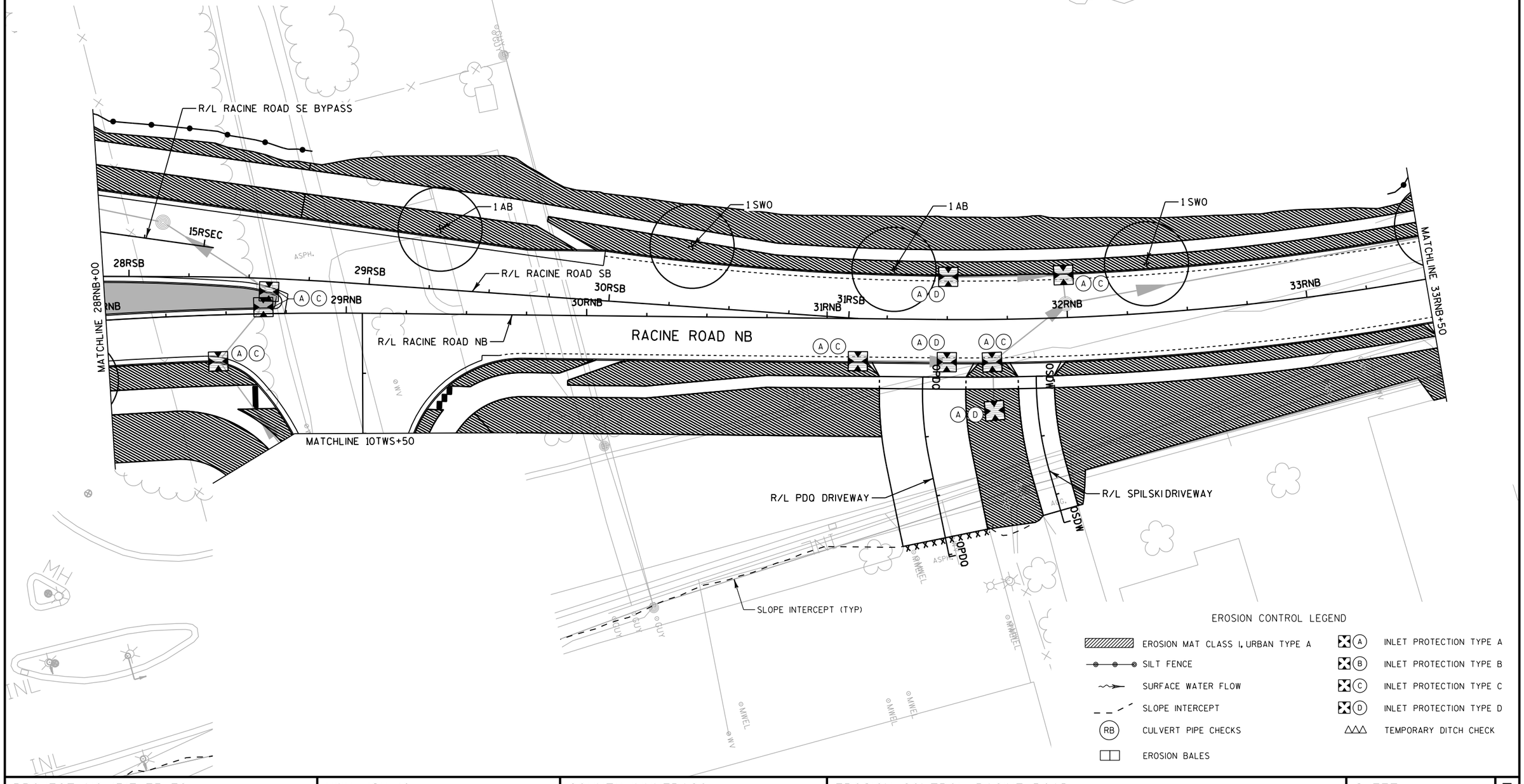
1) AREAS BETWEEN THE BACK OF CURB AND SLOPE INTERCEPTS REQUIRE TOPSOIL (OR SALVAGED TOPSOIL), FERTILIZER, SEED, AND EROSION MAT OR MULCH. ADDITIONALLY, AREAS RESTORED AFTER SEPTEMBER 15 REQUIRE SOIL STABILIZER.

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) RESTORATION AREAS ON THIS SHEET SHALL BE SEEDED WITH TEMPORARY SEEDING AND SEEDING MIXTURE NO. 20.

PLANT DATA CHART

SYM.	COMMON NAME	SCIENTIFIC NAME	AVE. MATURE HEIGHT	SIZE WHEN PLANTED	ROOT ZONE MODE	MINIMUM BALL OR POT SIZE		MINIMUM HOLE SIZE		BRACE OR GUY	FERT. UNITS REQ'D	RODENT PROT'CT REQ'D	MULCH RING DIAM.
						DIAM.	DEPTH	DIAM.	DEPTH				
	DECIDUOUS TREES (SHADE)												
AB	Maple, Autumn Blaze	Acer x freemanii 'Jeffersred'	40'	2" CAL	B&B	24"	14"	48"	14"	GUY	4	NO	60"
SWO	Oak, Swamp White	Quercus bicolor	60'	2" CAL	B&B	24"	14"	48"	14"	GUY	4	NO	60"

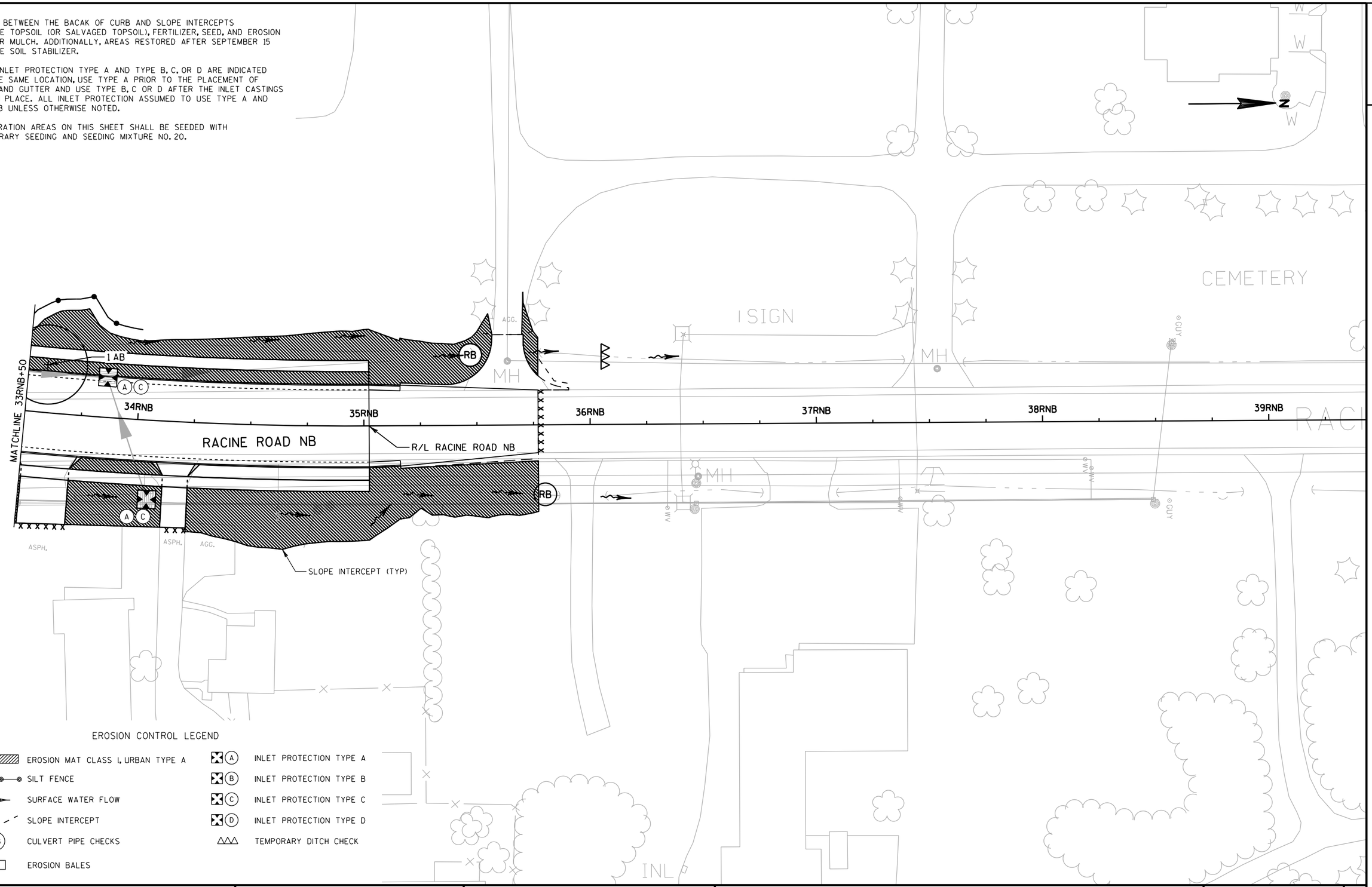


PROJECT NO: 1517-75-76	HWY: USH 10	COUNTY: WINNEBAGO	EROSION CONTROL: RACINE ROAD	SHEET 82	E

1) AREAS BETWEEN THE BACAK OF CURB AND SLOPE INTERCEPTS REQUIRE TOPSOIL (OR SALVAGED TOPSOIL), FERTILIZER, SEED, AND EROSION MAT OR MULCH. ADDITIONALLY, 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) RESTORATION AREAS ON THIS SHEET SHALL BE SEEDED WITH TEMPORARY SEEDING AND SEEDING MIXTURE NO. 20.



EROSION CONTROL LEGEND

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

PROJECT NO: 1517-75-76	HWY: USH 10	COUNTY: WINNEBAGO	EROSION CONTROL: RACINE ROAD	SHEET	E

FILE NAME : \\milw00\ingrproj\56537\1517-75-76\t1\cds\022005_ec.dgn PLOT DATE : 1/29/2016 PLOT BY : arosemeyer PLOT NAME : PLOT SCALE : 40:1

1) AREAS BETWEEN THE BACK OF CURB AND SLOPE INTERCEPTS REQUIRE TOPSOIL (OR SALVAGED TOPSOIL), FERTILIZER, SEED, AND EROSION MAT OR MULCH. ADDITIONALLY, 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) RESTORATION AREAS ON THIS SHEET SHALL BE SEEDED WITH TEMPORARY SEEDING AND SEEDING MIXTURE NO. 20.

EROSION CONTROL LEGEND

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

MATCHLINE 238CSB+00

24RSWC 23RSWC 22RSWC 21RSWC 20RSWC 19RSWC

239CSB 240CSB 241CSB 242CSB 243CSB 244CSB

239CNB 240CNB 241CNB 242CNB 243CNB 244CNB

SLOPE INTERCEPT (TYP)

WETLAND BOUNDARY (TYP)

N

PROJECT NO: 1517-75-76	HWY: USH 10	COUNTY: WINNEBAGO	EROSION CONTROL: RACINE ROAD RAMP CONNECTOR	SHEET 84	E

2

1) AREAS BETWEEN THE BACK OF CURB AND SLOPE INTERCEPTS REQUIRE TOPSOIL (OR SALVAGED TOPSOIL), FERTILIZER, SEED, AND EROSION MAT OR MULCH. ADDITIONALLY, 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) RESTORATION AREAS ON THIS SHEET SHALL BE SEEDED WITH TEMPORARY SEEDING AND SEEDING MIXTURE NO. 20.

N

MATCHLINE 10TWS+50

11TWS

12TH STREET

12TWS

13TWS

R/L 12TH STREET

SLOPE INTERCEPT (TYP)

A/C

CANOPY

SIGN

SIGN

FILLER CAPS

INL

MWEL

WV

GUY

MH

ASH.

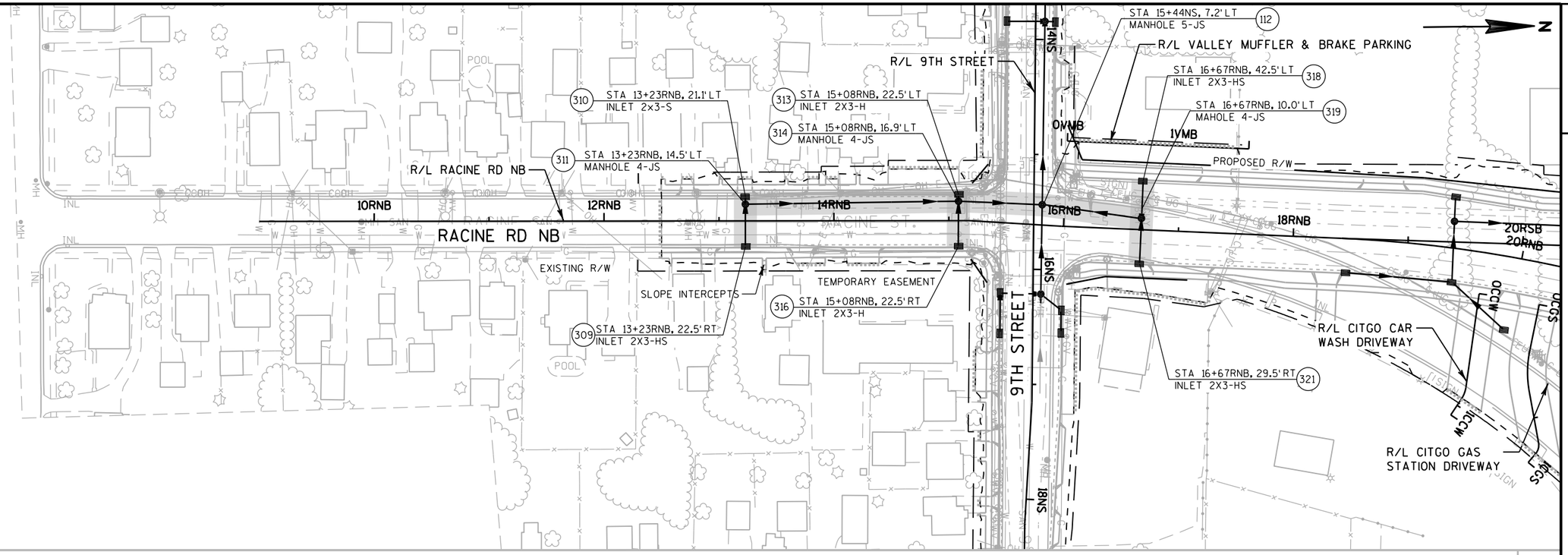
12th ST.

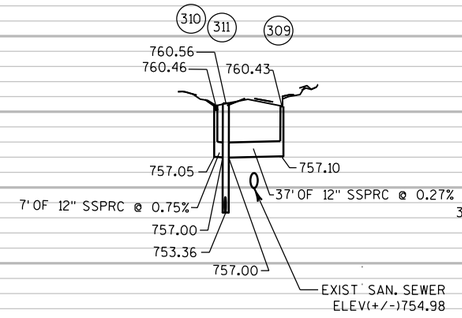
ATHLETIC FIELD

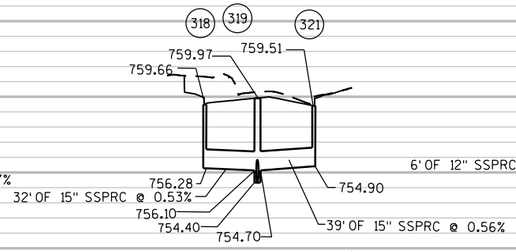
EROSION CONTROL LEGEND

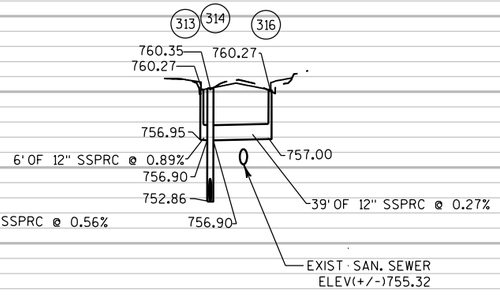
- EROSION MAT CLASS I, URBAN TYPE A
- SILT FENCE
- SURFACE WATER FLOW
- SLOPE INTERCEPT
- (RB) CULVERT PIPE CHECKS
- EROSION BALES
- (A) INLET PROTECTION TYPE A
- (B) INLET PROTECTION TYPE B
- (C) INLET PROTECTION TYPE C
- (D) INLET PROTECTION TYPE D
- TEMPORARY DITCH CHECK

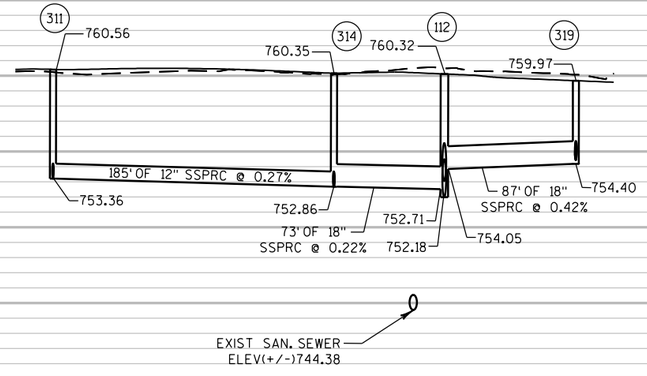
PROJECT NO: 1517-75-76	HWY: USH 10	COUNTY: WINNEBAGO	EROSION CONTROL: 12TH STREET	SHEET 85	E



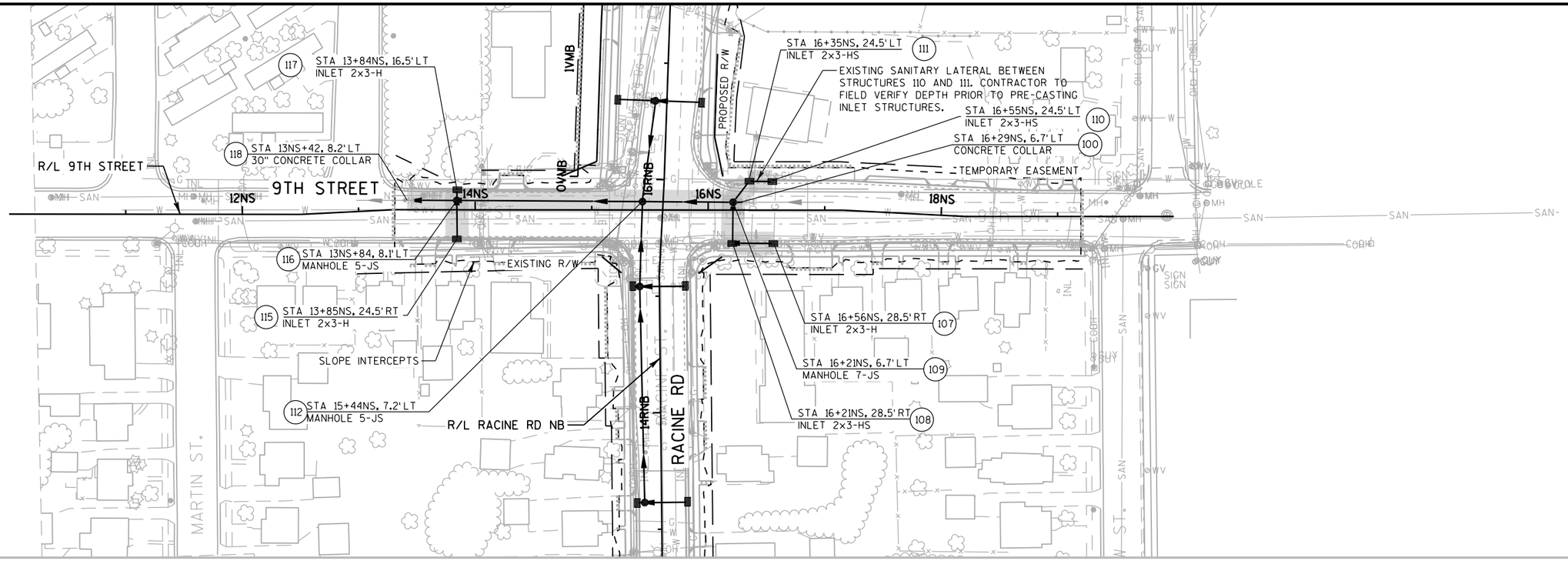


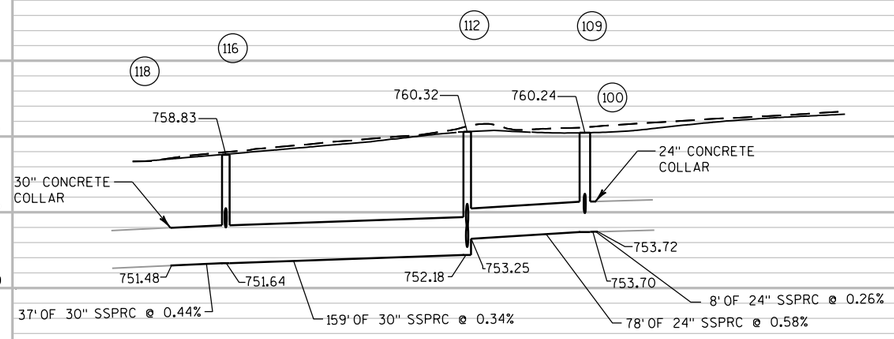


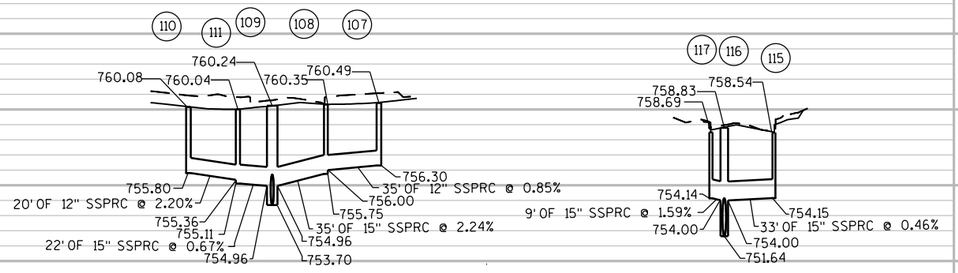




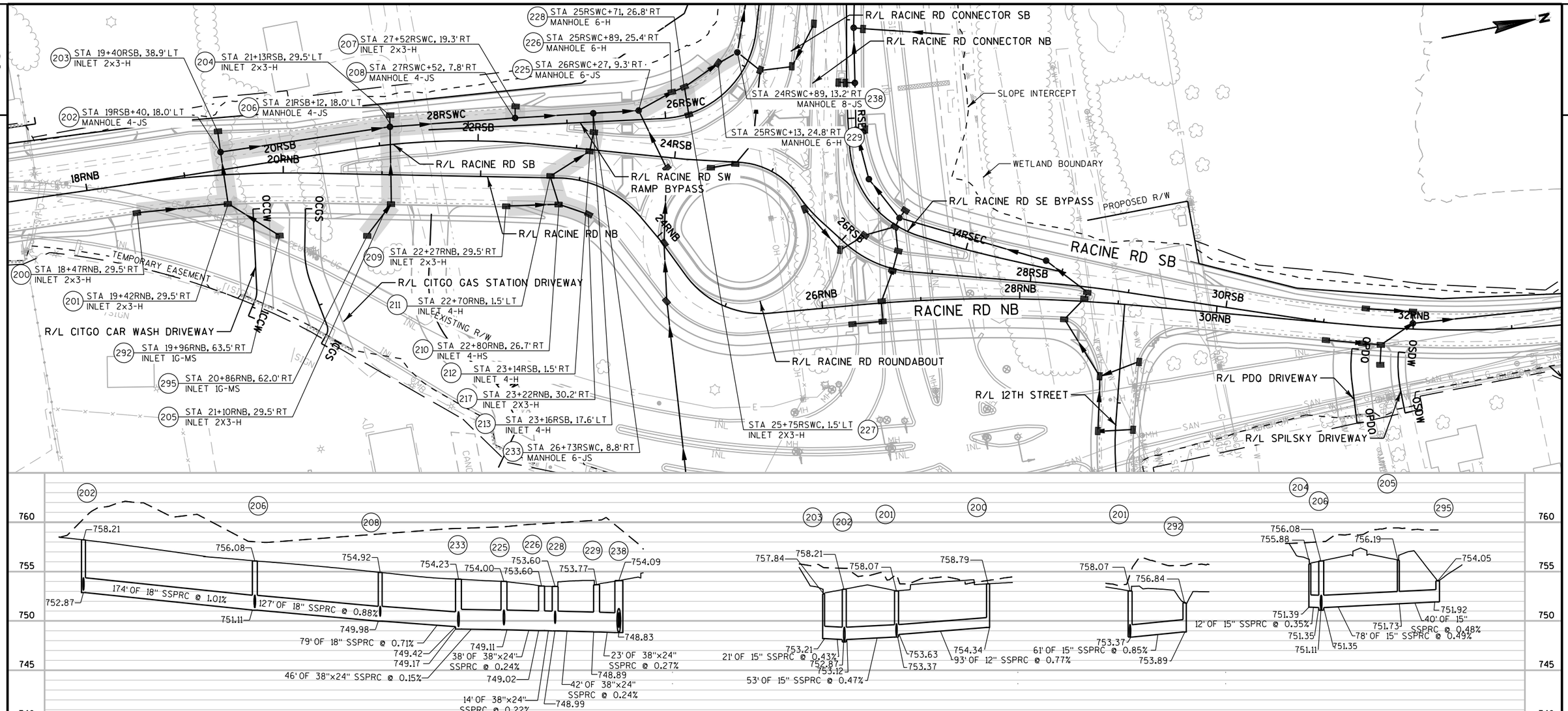
PROJECT NO: 1517-75-76	HWY: USH 10	COUNTY: WINNEBAGO	STORM SEWER	SHEET 86 E



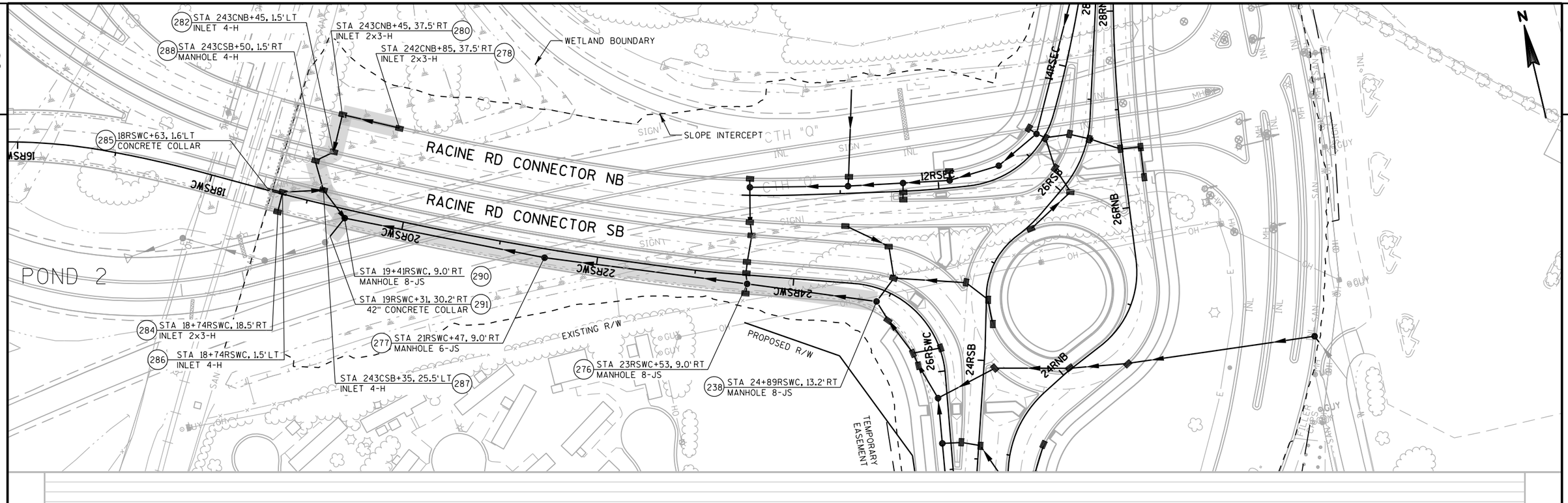


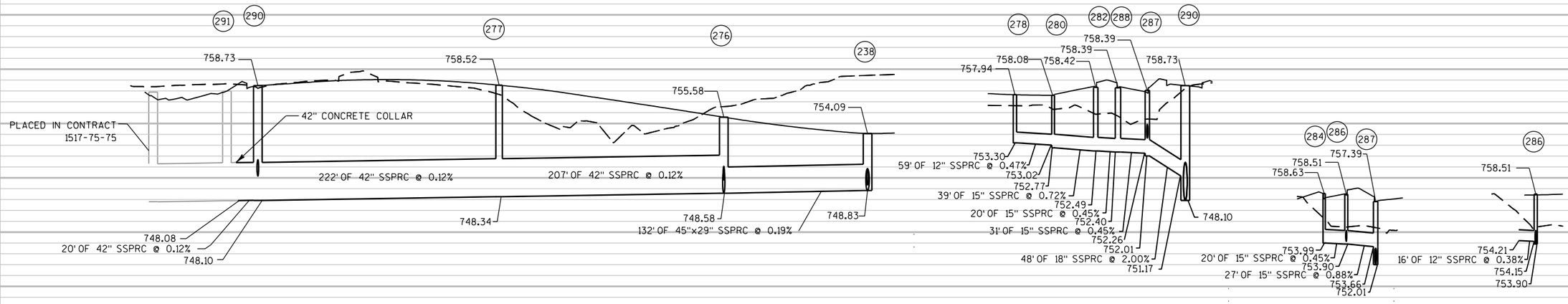


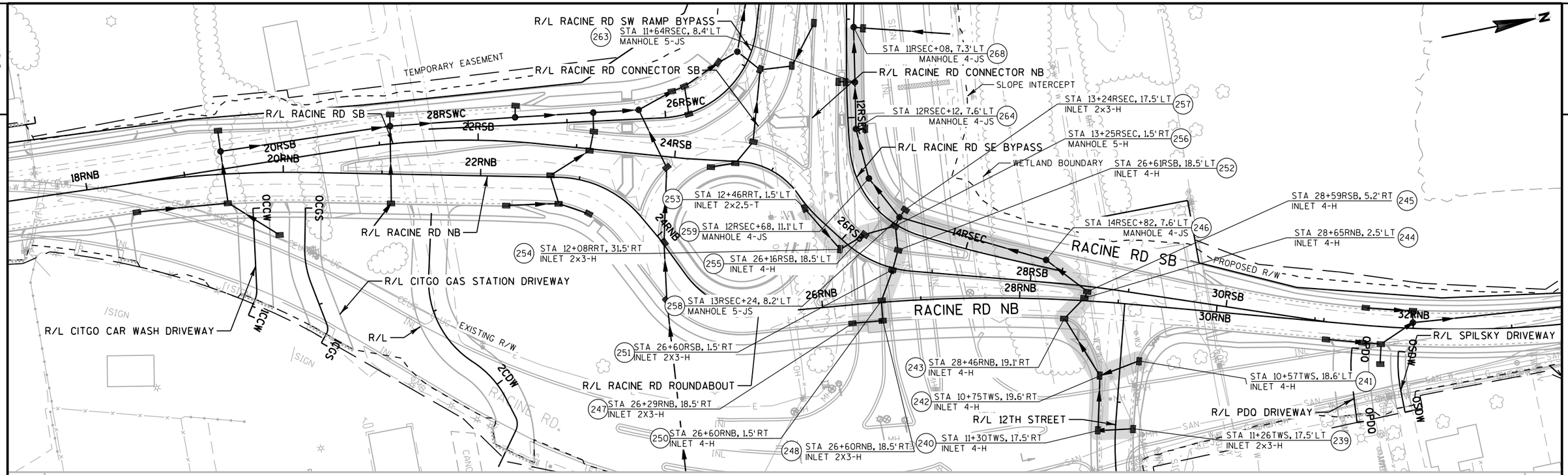
PROJECT NO: 1517-75-76	HWY: USH 10	COUNTY: WINNEBAGO	STORM SEWER	SHEET 87	E

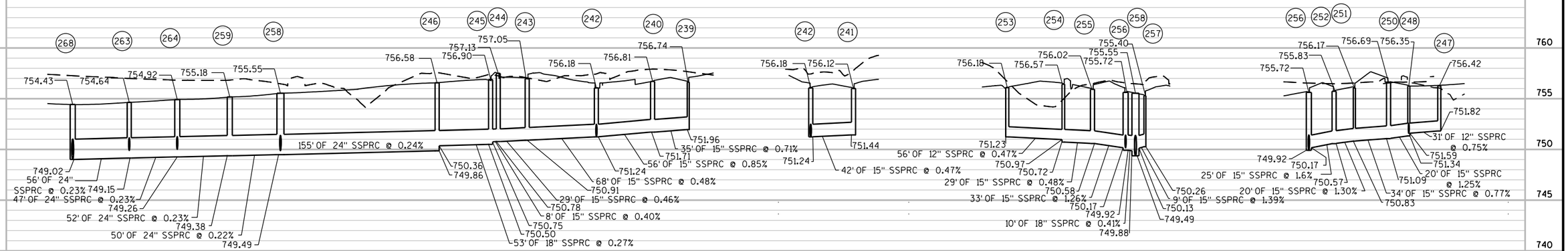


PROJECT NO: 1517-75-76	HWY: USH 10	COUNTY: WINNEBAGO	STORM SEWER	SHEET 88	E

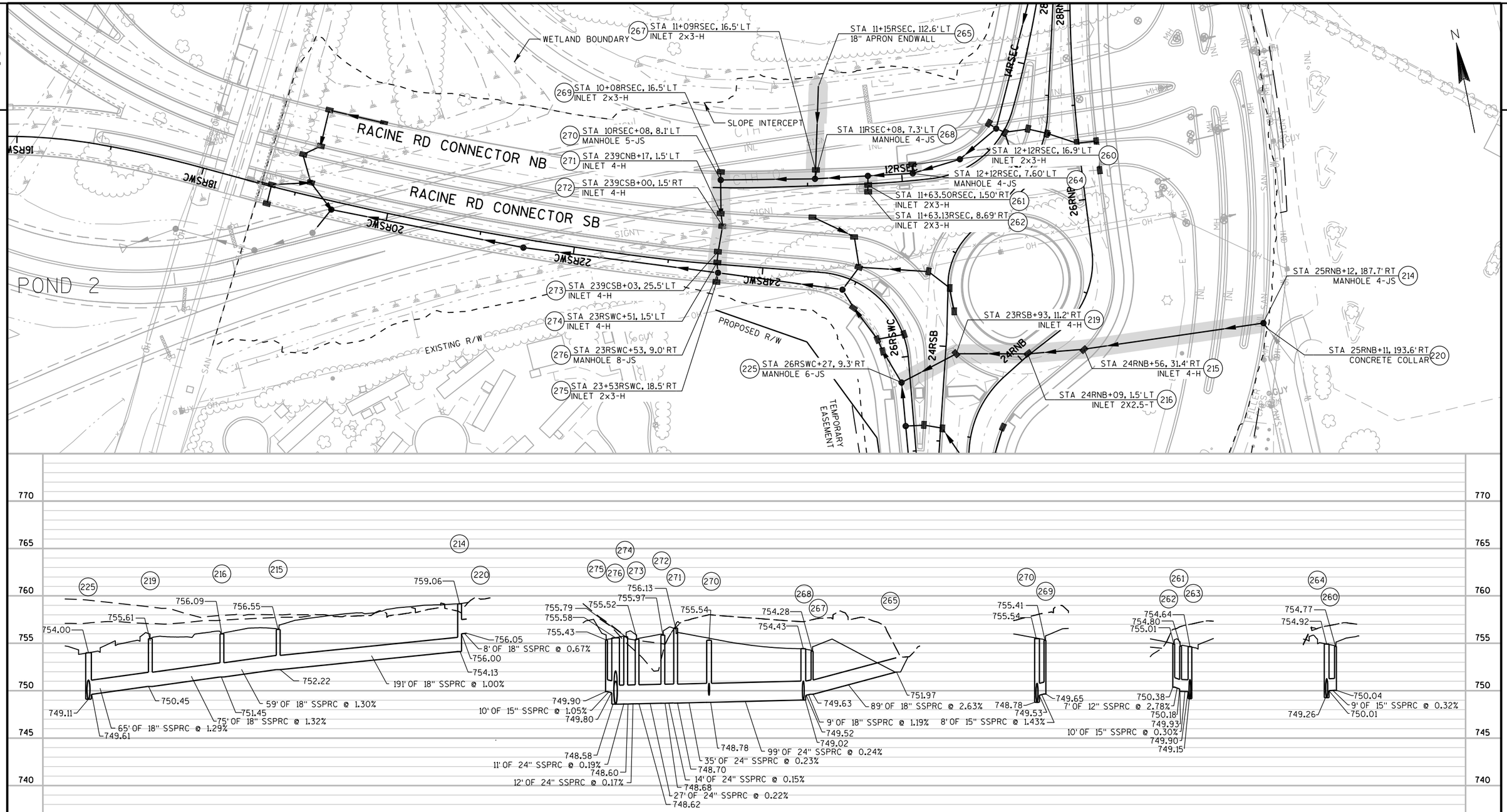

282 STA 243CNB+45, 1.5'LT
INLET 4-H
288 STA 243CSB+50, 1.5'RT
MANHOLE 4-H
STA 243CNB+45, 37.5'RT 280
INLET 2x3-H
STA 242CNB+85, 37.5'RT 278
INLET 2x3-H
WETLAND BOUNDARY
SLOPE INTERCEPT
285 18RSWC+63, 1.6'LT
CONCRETE COLLAR
RACINE RD CONNECTOR NB
RACINE RD CONNECTOR SB
CTH "Q"
POND 2
STA 19+41RSWC, 9.0'RT 290
MANHOLE 8-JS
STA 19RSWC+31, 30.2'RT 291
42" CONCRETE COLLAR
284 STA 18+74RSWC, 18.5'RT
INLET 2x3-H
286 STA 18+74RSWC, 1.5'LT
INLET 4-H
277 STA 21RSWC+47, 9.0'RT
MANHOLE 6-JS
STA 243CSB+35, 25.5'LT 287
INLET 4-H
276 STA 23RSWC+53, 9.0'RT
MANHOLE 8-JS
238 STA 24+89RSWC, 13.2'RT
MANHOLE 8-JS
EXISTING R/W
PROPOSED R/W
TEMPORARY EASEMENT
18RSWC
20RSWC
22RSWC
24RSWC
14RSEC
12RSC
26RSB
26RNB
26RSWC
24RSB
24RNB
N


775
770
765
760
755
750
745
740
735
291
290
277
276
238
758.73
758.52
755.58
754.09
PLACED IN CONTRACT
1517-75-75
42" CONCRETE COLLAR
222' OF 42" SSPRC @ 0.12%
207' OF 42" SSPRC @ 0.12%
748.08
20' OF 42" SSPRC @ 0.12%
748.10
748.34
748.58
132' OF 45"x29" SSPRC @ 0.19%
748.83
278
280
282
288
287
290
757.94
758.08
758.42
758.39
758.39
758.73
753.30
59' OF 12" SSPRC @ 0.47%
753.02
752.77
39' OF 15" SSPRC @ 0.72%
752.49
20' OF 15" SSPRC @ 0.45%
752.40
31' OF 15" SSPRC @ 0.45%
752.26
752.01
48' OF 18" SSPRC @ 0.20%
751.17
748.10
284
286
287
758.51
758.63
757.39
753.99
20' OF 15" SSPRC @ 0.45%
753.90
27' OF 15" SSPRC @ 0.88%
753.66
752.01
286
758.51
754.21
16' OF 12" SSPRC @ 0.38%
754.15
753.90

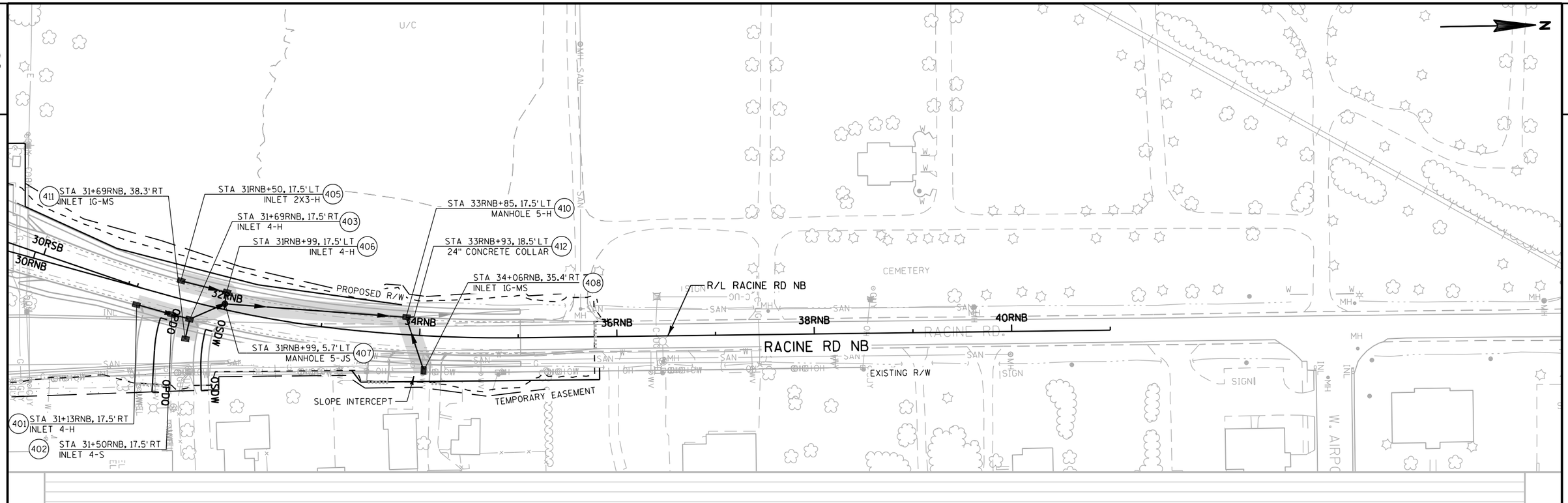


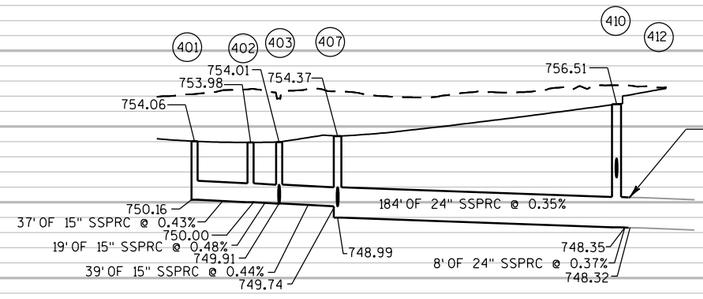


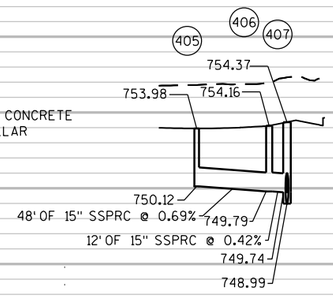
PROJECT NO: 1517-75-76	HWY: USH 10	COUNTY: WINNEBAGO	STORM SEWER	SHEET 90	E

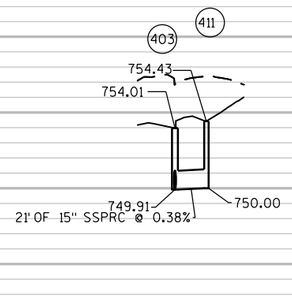

POND 2
RACINE RD CONNECTOR NB
RACINE RD CONNECTOR SB
WETLAND BOUNDARY
SLOPE INTERCEPT
EXISTING R/W
PROPOSED R/W
TEMPORARY EASEMENT
267 STA 11+09RSEC, 16.5'LT INLET 2x3-H
269 STA 10+08RSEC, 16.5'LT INLET 2x3-H
270 STA 10RSEC+08, 8.1'LT MANHOLE 5-JS
271 STA 239CNB+17, 1.5'LT INLET 4-H
272 STA 239CSB+00, 1.5'RT INLET 4-H
273 STA 239CSB+03, 25.5'LT INLET 4-H
274 STA 23RSWC+51, 1.5'LT INLET 4-H
276 STA 23RSWC+53, 9.0'RT MANHOLE 8-JS
275 STA 23+53RSWC, 18.5'RT INLET 2x3-H
265 STA 11+15RSEC, 112.6'LT 18" APRON ENDWALL
268 STA 11RSEC+08, 7.3'LT MANHOLE 4-JS
260 STA 12+12RSEC, 16.9'LT INLET 2x3-H
264 STA 12+12RSEC, 7.60'LT MANHOLE 4-JS
261 STA 11+63.50RSEC, 1.50'RT INLET 2X3-H
262 STA 11+63.13RSEC, 8.69'RT INLET 2X3-H
225 STA 26RSWC+27, 9.3'RT MANHOLE 6-JS
214 STA 25RNB+12, 187.7'RT MANHOLE 4-JS
219 STA 23RSB+93, 11.2'RT INLET 4-H
220 STA 25RNB+11, 193.6'RT CONCRETE COLLAR
215 STA 24RNB+56, 31.4'RT INLET 4-H
216 STA 24RNB+09, 1.5'LT INLET 2X2.5-T
18RSWC
20RSWC
22RSWC
24RSWC
26RSWC
12RSEC
14RSEC
26RNB
24RSB
24RNB
N

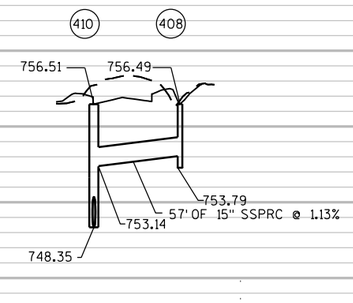
754.00
755.61
756.09
756.55
759.06
749.11
749.61
750.45
751.45
752.22
756.05
754.13
756.00
8' OF 18" SSPRC @ 0.67%
191' OF 18" SSPRC @ 1.00%
59' OF 18" SSPRC @ 1.30%
75' OF 18" SSPRC @ 1.32%
65' OF 18" SSPRC @ 1.29%
755.79
755.58
755.43
755.52
755.97
756.13
755.54
749.90
749.80
748.58
748.60
748.68
748.62
748.78
748.70
10' OF 15" SSPRC @ 1.05%
11' OF 24" SSPRC @ 0.19%
12' OF 24" SSPRC @ 0.17%
27' OF 24" SSPRC @ 0.22%
35' OF 24" SSPRC @ 0.23%
14' OF 24" SSPRC @ 0.15%
99' OF 24" SSPRC @ 0.24%
754.28
754.43
751.97
749.63
749.52
749.02
89' OF 18" SSPRC @ 2.63%
9' OF 18" SSPRC @ 1.19%
755.41
755.54
748.78
749.65
749.53
8' OF 15" SSPRC @ 1.43%
754.64
754.80
755.01
750.38
750.18
749.93
749.90
749.15
7' OF 12" SSPRC @ 2.78%
10' OF 15" SSPRC @ 0.30%
754.77
754.92
749.26
750.04
750.01
9' OF 15" SSPRC @ 0.32%



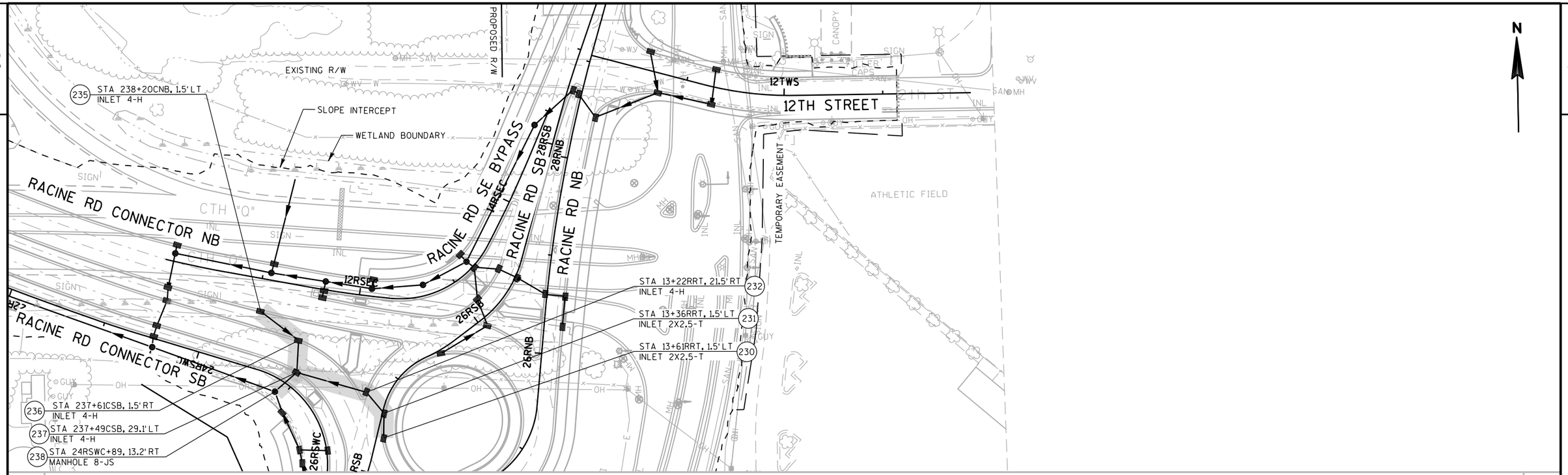


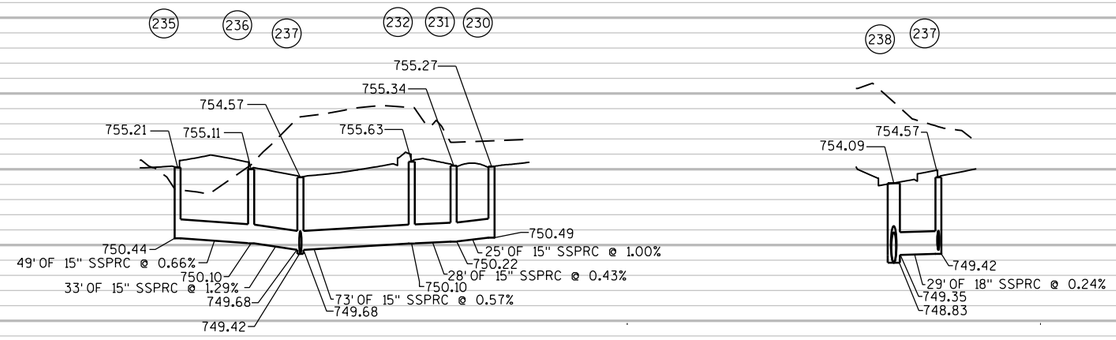






PROJECT NO: 1517-75-76	HWY: USH 10	COUNTY: WINNEBAGO	STORM SEWER	SHEET 92	E





PROJECT NO: 1517-75-76	HWY: USH 10	COUNTY: WINNEBAGO	STORM SEWER	SHEET 93	E

NOTES:
1. FOR INFORMATION ONLY. REFER TO CONSTRUCTION DETAILS "UNDERDRAIN PIPE", "UNDERDRAIN OUTFALL AT INLET" AND "VALLEY MUFFLER AND BRAKE RETAINING WALL" FOR UNDERDRAIN LOCATON.
2. SEE STORM SEWER PLAN FOR STATION AND OFFSETS OF INLETS AND MANHOLES.

N

SEE CONSTRUCTION DETAIL "VALLEY MUFFLER AND BRAKE RETAINING WALL" FOR MORE INFORMATION.

1VMB

310

318

309

108

107

111

110

13RNB

14RNB

15RNB

16RNB

17RNB

18RNB

14NS

15NS

16NS

17NS

RACINE ROAD

9TH STREET

LEGEND

PIPE UNDERDRAIN 6-INCH

XXX STRUCTURE ID

PROJECT NO: 1517-75-76	HWY: USH 10	COUNTY: WINNEBAGO	PIPE UNDERDRAIN LAYOUT	SHEET 94	E

FILE NAME : \\milw00\ingrproj\56537\1517-75-76\t1\cds\022601_pu.dgn PLOT DATE : 1/19/2016 PLOT BY : arosemeyer PLOT NAME : PLOT SCALE : 40:1

WISDOT/CADDS SHEET 42

NOTES:
1. FOR INFORMATION ONLY. REFER TO CONSTRUCTION DETAIL "UNDERDRAIN PIPE" AND "UNDERDRAIN OUTFALL AT INLET" FOR UNDERDRAIN LOCATON.
2. SEE STORM SEWER PLAN FOR STATION AND OFFSETS OF INLETS AND MANHOLES.

RACINE ROAD SW RAMP BYPASS
RACINE ROAD CONNECTOR SB
RACINE ROAD CONNECTOR NB
RACINE ROAD SB
RACINE ROAD NB
RACINE ROAD SE BYPASS
28RSWC
27RSWC
26RSWC
25RSWC
22RSB
23RSB
22RNB
23RNB
237CSB
238CSB
237CNB
238CNB
11RSEC
12RSEC
13RSEC
14RSEC
14RRT
13RRT
12RRT
11RRT
1CDW
27RSB
28RSB
26RNB
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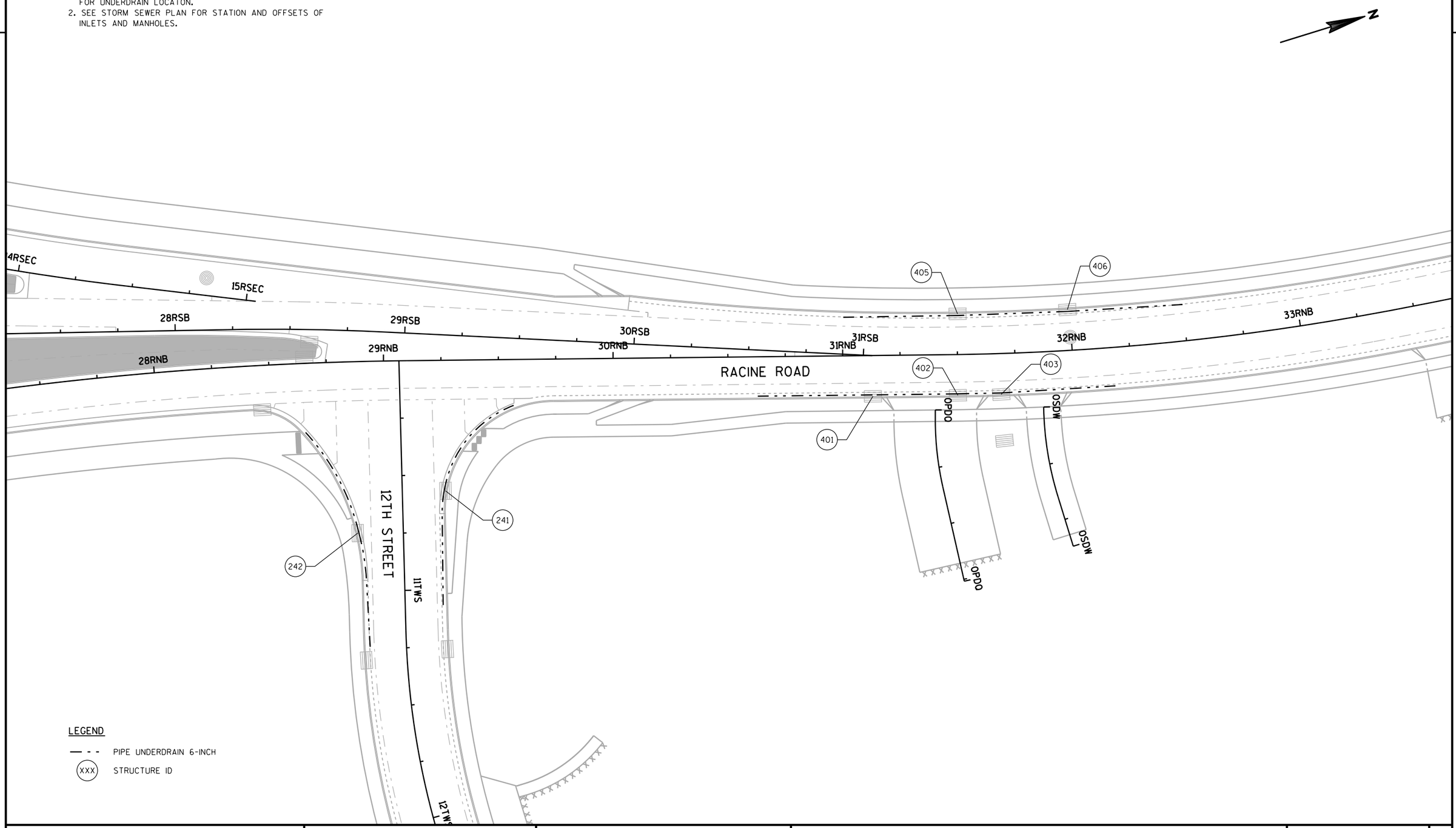
LEGEND
PIPE UNDERDRAIN 6-INCH
(XXX) STRUCTURE ID

PROJECT NO: 1517-75-76	HWY: USH 10	COUNTY: WINNEBAGO	PIPE UNDERDRAIN LAYOUT	SHEET	E

FILE NAME : \\milw00\ingrproj\56537\1517-75-76\t1\cds\022602_pu.dgn PLOT DATE : 1/19/2016 PLOT BY : arosemeyer PLOT NAME : PLOT SCALE : 40:1

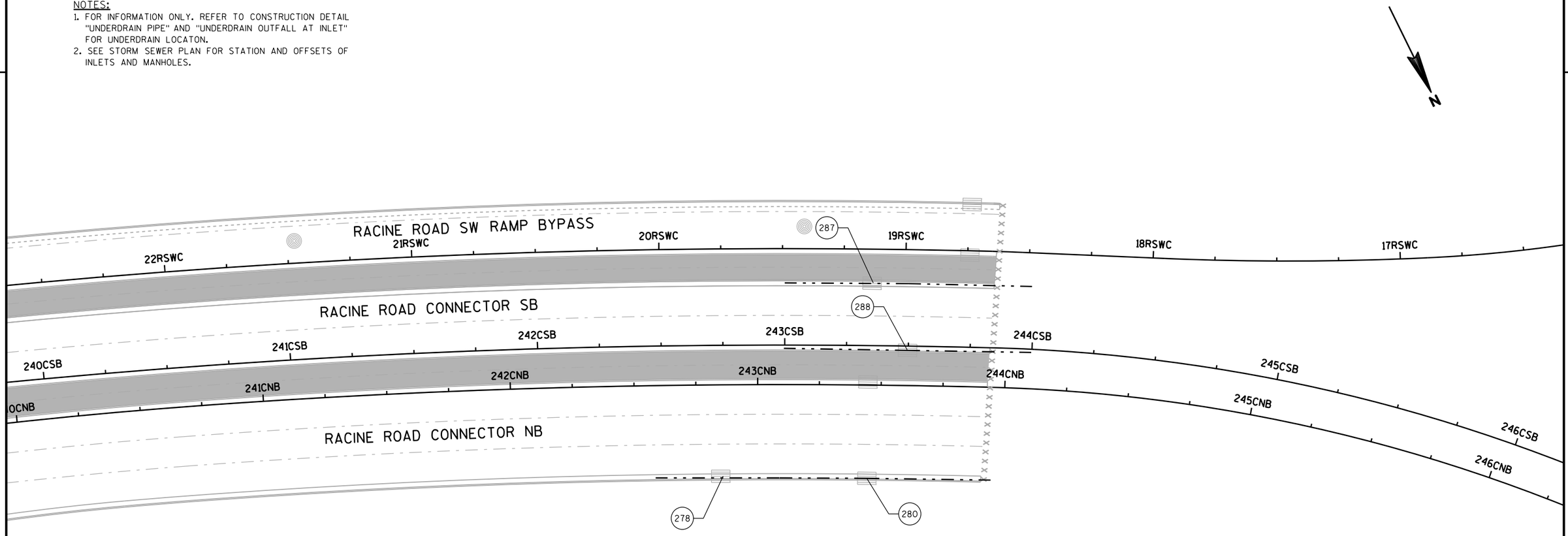
WISDOT/CADDS SHEET 42

NOTES:
1. FOR INFORMATION ONLY. REFER TO CONSTRUCTION DETAIL "UNDERDRAIN PIPE" AND "UNDERDRAIN OUTFALL AT INLET" FOR UNDERDRAIN LOCATON.
2. SEE STORM SEWER PLAN FOR STATION AND OFFSETS OF INLETS AND MANHOLES.



PROJECT NO: 1517-75-76	HWY: USH 10	COUNTY: WINNEBAGO	PIPE UNDERDRAIN LAYOUT	SHEET 96	E

NOTES:
1. FOR INFORMATION ONLY. REFER TO CONSTRUCTION DETAIL "UNDERDRAIN PIPE" AND "UNDERDRAIN OUTFALL AT INLET" FOR UNDERDRAIN LOCATON.
2. SEE STORM SEWER PLAN FOR STATION AND OFFSETS OF INLETS AND MANHOLES.



LEGEND

— - - PIPE UNDERDRAIN 6-INCH

(XXX) STRUCTURE ID

PROJECT NO: 1517-75-76	HWY: USH 10	COUNTY: WINNEBAGO	PIPE UNDERDRAIN LAYOUT	SHEET 97	E

SIGNING NOTES

TYPE II SIGNS AND SUPPORTS REMOVED UNDER THE CONTRACT SHALL BE DELIVERED TO THE REGIONAL TRAFFIC UNIT. SIGNS SHALL BE CAREFULLY REMOVED FROM THE SUPPORTS, SORTED BY BASE MATERIAL AND PALLETIZED BY MATERIAL TYPE. ONLY AND ALL ALUMINUM SIGNS NEED TO BE RETURNED TO REGION. THE REGIONAL TRAFFIC UNIT, 920-492-5653, SHALL BE NOTIFIED THREE WORKING DAYS PRIOR TO DELIVERY OF THE SIGNS.

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

INSTALL 18" X 18" ORANGE FLAGS ON TOP OF THE YIELD SIGNS FOR THE FIRST SIX MONTHS OF OPERATION OF THE ROUNDABOUT TO EMPASIZE THE YIELD MOVEMENT.

COVER AS SHOWN

M04-5 24" X 12" — TO EAST
M04-5 24" X 12" — TO NORTH
M3-2 24" X 12" / M3-1 24" X 12"
23A

W2-6 30" X 30" — 24
15 M.P.H. W13-1 18" X 18" — 25
J2-2 48" X 57" — TO 10 441 — 23

COVER AS SHOWN

M04-5 24" X 12" — TO EAST
M04-5 24" X 12" — TO NORTH
M3-2 24" X 12" / M3-1 24" X 12"
16A

COVER AS SHOWN

J3-3 72" X 57" — TO 41 10 441 — 16

R3-5A 42" X 48" — ONLY — 18
R3-5R 42" X 48" — ONLY — 19

RAMP CLOSED / USE / ALT ROUTE
R11-54F 48" X 30" — 17

STA. 28+37
SIGN CANTILEVER
S-70-215

W3-2 36" X 36" — 11
COUNTY P M1-5A 24" X 24" — 20

COVER AS SHOWN

WEST SOUTH TO 41 — 10 441 — Stevens Point
E7-2 180" X 102" — 200

EAST NORTH — 10 441 — Green Bay — ONLY
E6-54R 108" X 102" — 201

W2-6 36" X 36" — 1K
15 M.P.H. W13-1 24" X 24" — 1L
JCT JCT — 10 441 — J1-2 48" X 39" — 1C
JCT JCT — 10 441 — J1-2 48" X 39" — 1D

R R — W10-1 36" X 36" — 1F
EXEMPT — W10-1A 24" X 12" — 1G
R R — W10-1 36" X 36" — 1H
EXEMPT — W10-1A 24" X 12" — 1I

W3-2 36" X 36" — 1J

STA. 239+83
SIGN BRIDGE
S-70-213

COVER AS SHOWN

ONLY ONLY ONLY — R3-8X 54" X 30" — 1A

COVER AS SHOWN

ONLY ONLY ONLY — R3-8X 54" X 30" — 1B

TO 10 441 — D1-2 60" X 30" — 1

RAMP CLOSED / USE / ALT ROUTE
R11-54F 48" X 30" — 2

YIELD — R1-2 36" X 31" — 5
TO TRAFFIC FROM LEFT — R1-54 24" X 15" — 6

YIELD — R1-2 36" X 31" — 7
ONE WAY — R6-2R 24" X 24" — 8

W12-1D 24" X 24" — 9

ONE WAY — R6-1R 54" X 18" — 3
R6-4B 60" X 24" — 4

ONE WAY — R6-2L 24" X 30" — 15
R4-7 24" X 30" — 21
STOP — R1-1 30" X 30" — 14

SPEED LIMIT 35 — R2-1 24" X 30" — 22

Racine Rd ⇦ NORTH SOUTH ⇨ / Menasha ⇨ — D1-2 90" X 36" — 1E

ONLY — R3-5X 42" X 48" — 26
ONLY — R3-5R 42" X 48" — 27

STA. 238+80
SIGN CANTILEVER
S-70-214

Racine Rd ⇗ — D1-1 72" X 15" — 10

N

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

PLAN SHEET PRODUCED BY WisDOT-NE REGION

PROJECT NO: 1517-75-76	HWY: USH 10	COUNTY: WINNEBAGO	PERMANENT SIGNING	SHEET 98 E

FILE NAME : N:\spo\traffic\SIGNING\Projects\1517-75-76 STH 441-USH 10 Racine St\023201_ps.dgn PLOT DATE : 17-FEB-2016 16:42 PLOT BY : dotj1f PLOT NAME : PLOT SCALE : 100:1

WISDOT/CADDS SHEET 42

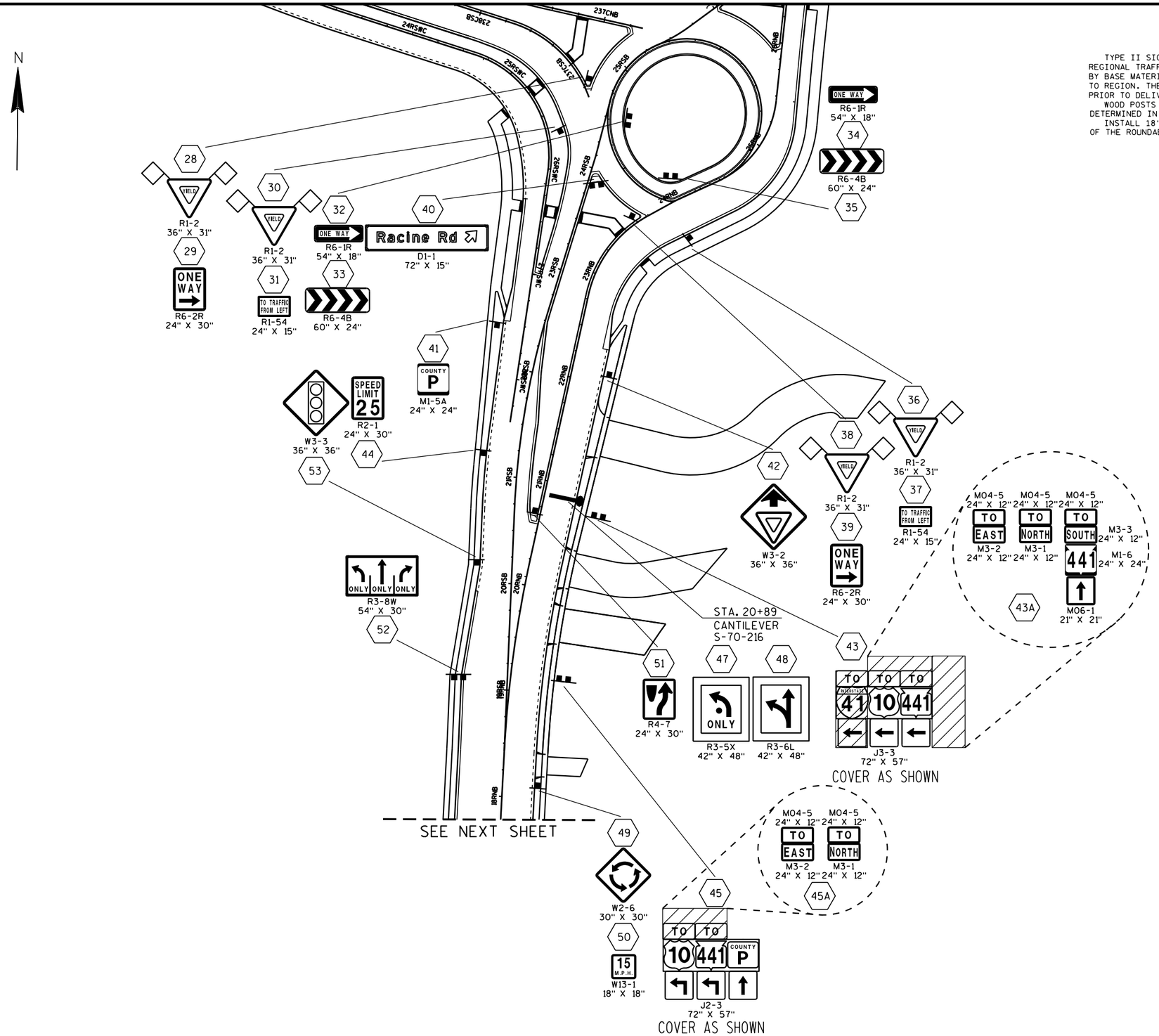
2

SIGNING NOTES

TYPE II SIGNS AND SUPPORTS REMOVED UNDER THE CONTRACT SHALL BE DELIVERED TO THE REGIONAL TRAFFIC UNIT. SIGNS SHALL BE CAREFULLY REMOVED FROM THE SUPPORTS, SORTED BY BASE MATERIAL AND PALLETIZED BY MATERIAL TYPE. ONLY AND ALL ALUMINUM SIGNS NEED TO BE RETURNED TO REGION. THE REGIONAL TRAFFIC UNIT, 920-492-5653, SHALL BE NOTIFIED THREE WORKING DAYS PRIOR TO DELIVERY OF THE SIGNS.

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

INSTALL 18" X 18" ORANGE FLAGS ON TOP OF THE YIELD SIGNS FOR THE FIRST SIX MONTHS OF OPERATION OF THE ROUNDABOUT TO EMPASIZE THE YIELD MOVEMENT.



LEGEND

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

PLAN SHEET PRODUCED BY WisDOT-NE REGION

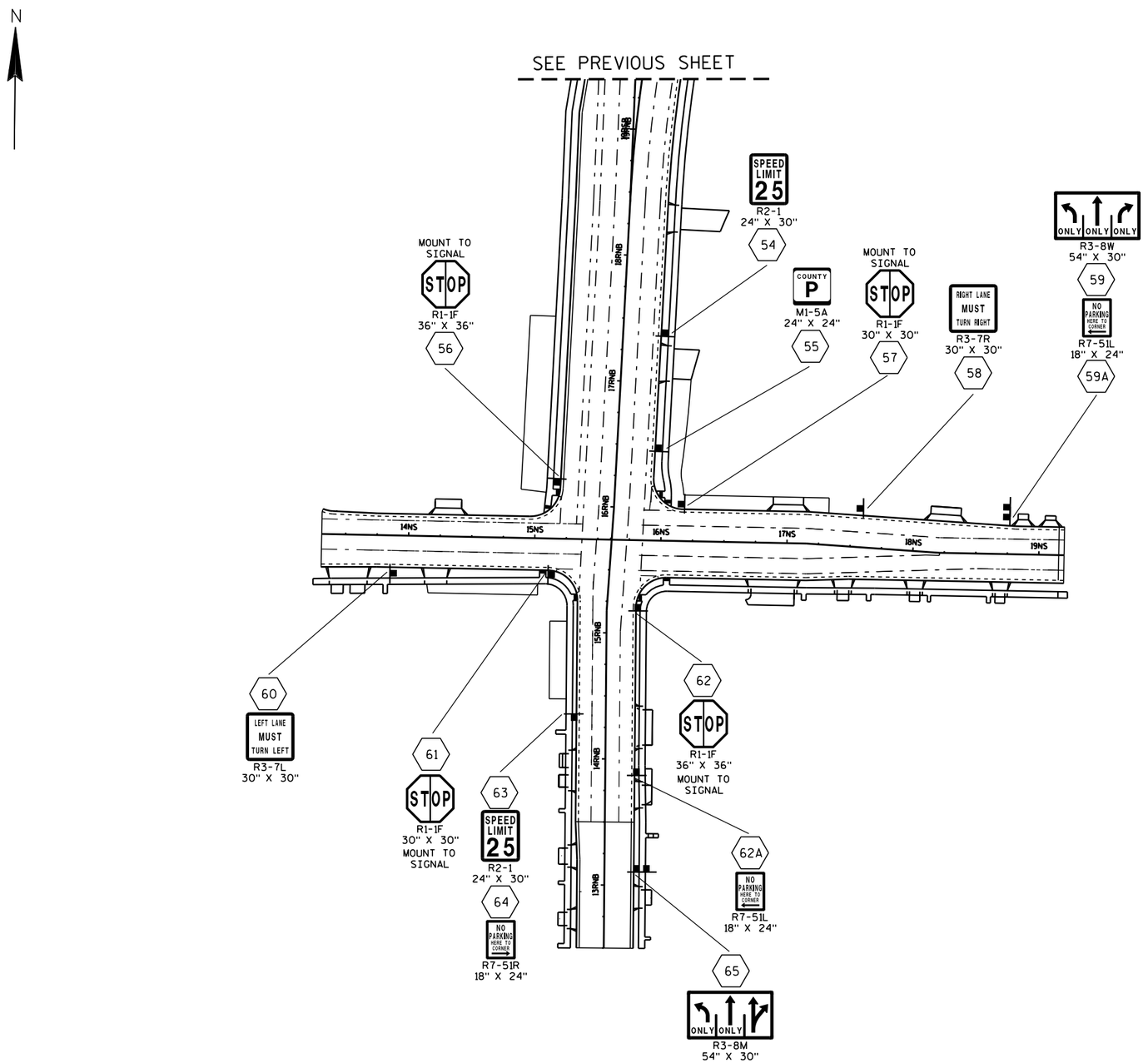
PROJECT NO: 1517-75-76	HWY: USH 10	COUNTY: WINNEBAGO	PERMANENT SIGNING	SHEET 99 E

2

SIGNING NOTES

TYPE II SIGNS AND SUPPORTS REMOVED UNDER THE CONTRACT SHALL BE DELIVERED TO THE REGIONAL TRAFFIC UNIT. SIGNS SHALL BE CAREFULLY REMOVED FROM THE SUPPORTS, SORTED BY BASE MATERIAL AND PALLETIZED BY MATERIAL TYPE. ONLY AND ALL ALUMINUM SIGNS NEED TO BE RETURNED TO REGION. THE REGIONAL TRAFFIC UNIT, 920-492-5653, SHALL BE NOTIFIED THREE WORKING DAYS PRIOR TO DELIVERY OF THE SIGNS.

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



LEGEND

- BUTTERFLY
- CANTILEVER
- SIGN BRIDGE
- SIGN POSTS
- STEEL POSTS

SIGN-PLACE NEW

PLAN SHEET PRODUCED BY WisDOT-NE REGION

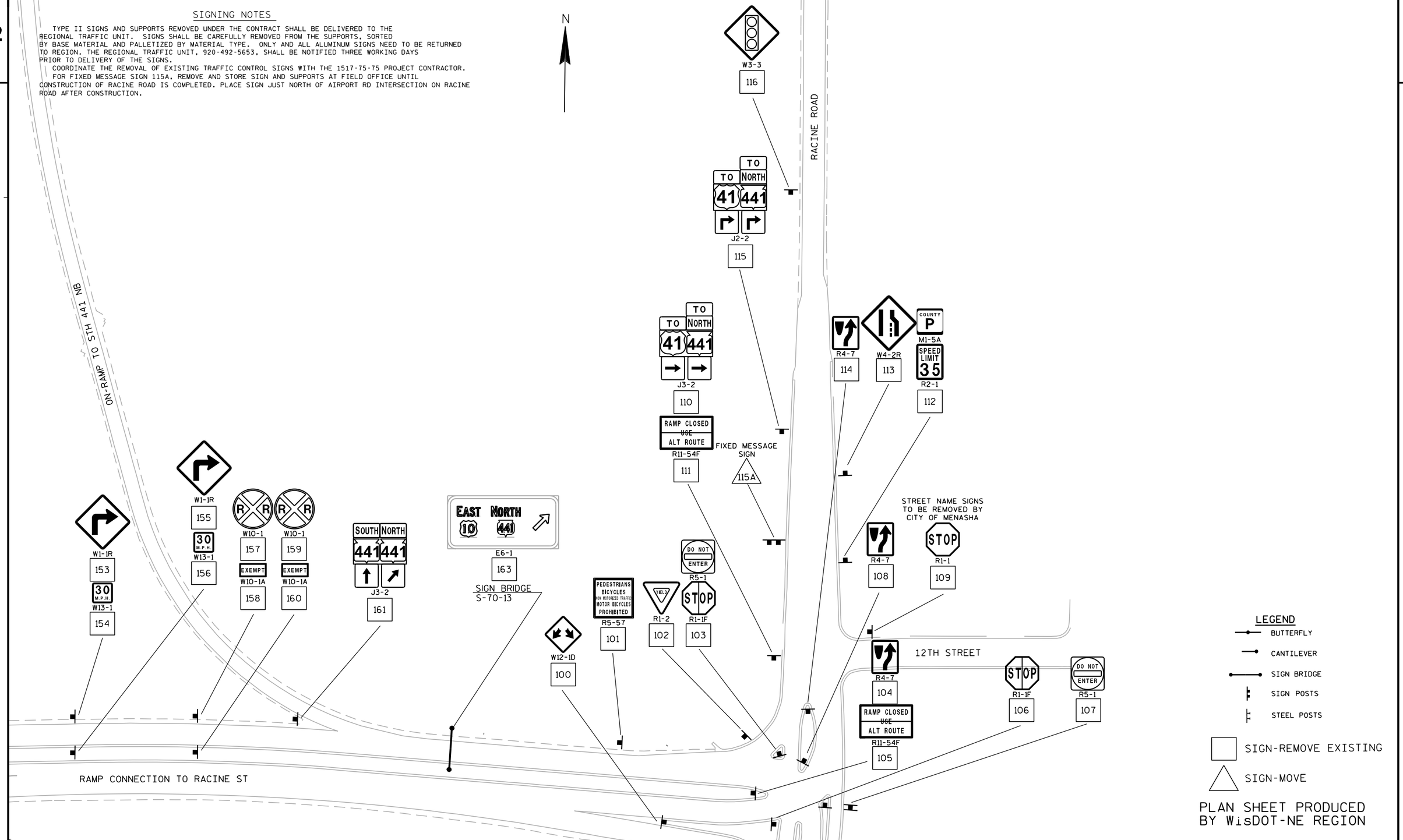
PROJECT NO: 1517-75-76	HWY: USH 10	COUNTY: WINNEBAGO	PERMANENT SIGNING	SHEET 100	E

SIGNING NOTES

TYPE II SIGNS AND SUPPORTS REMOVED UNDER THE CONTRACT SHALL BE DELIVERED TO THE REGIONAL TRAFFIC UNIT. SIGNS SHALL BE CAREFULLY REMOVED FROM THE SUPPORTS, SORTED BY BASE MATERIAL AND PALLETIZED BY MATERIAL TYPE. ONLY AND ALL ALUMINUM SIGNS NEED TO BE RETURNED TO REGION. THE REGIONAL TRAFFIC UNIT, 920-492-5653, SHALL BE NOTIFIED THREE WORKING DAYS PRIOR TO DELIVERY OF THE SIGNS.

COORDINATE THE REMOVAL OF EXISTING TRAFFIC CONTROL SIGNS WITH THE 1517-75-75 PROJECT CONTRACTOR.

FOR FIXED MESSAGE SIGN 115A, REMOVE AND STORE SIGN AND SUPPORTS AT FIELD OFFICE UNTIL CONSTRUCTION OF RACINE ROAD IS COMPLETED. PLACE SIGN JUST NORTH OF AIRPORT RD INTERSECTION ON RACINE ROAD AFTER CONSTRUCTION.



PROJECT NO: 1517-75-76	HWY: USH 10	COUNTY: WINNEBAGO	SIGN REMOVALS	SHEET 101	E

2

RAMP CONNECTION TO RACINE ST

117
W3-3

SIS
TO BE REMOVED BY INTERSTATE LOGOS CALL (844) 496-9163 14 DAYS IN ADVANCE OF SIGN REMOVAL

118
Racine St
NORTH SOUTH
Menasha
D1-2

119
TO
COUNTY P 114
J3-2

120
H
J13-1

121
STOP
R1-1F

122
STOP
R1-1F

123
TO
41
J3-1

123A
TO
441
J3-1

124
LEFT ON GREEN ARROW ONLY
R10-5
STOP
R1-1F

125
STOP
R1-1F

N

ONLY
R3-8A
131

130
DO NOT ENTER
R5-1

W12-1D
126

129
R4-7

ONLY
R3-8A
132

128
TO WEST
TO SOUTH
10 441 COUNTY P
J3-3

127
SPEED LIMIT
25
R2-1

RACINE STREET

COMMUNITY WAYFINDER TO BE REMOVED BY CITY OF MENASHA

TRUCK ROUTE
J13-1
135

NO PARKING ONLY IN 15 MIN ZONE
R7-2D
133A

131A
FIXED MESSAGE SIGN

133
TO NORTH
TO SOUTH
TO
441 441 41 COUNTY P
USE LEFT LANE
J3-4

COMMUNITY POP. SIGN TO BE REMOVED BY CITY OF MENASHA

CITY TO REMOVE WAYFINDER SIGN

STOP
R1-1F
136

W3-3
134

SIGNING NOTES

TYPE II SIGNS AND SUPPORTS REMOVED UNDER THE CONTRACT SHALL BE DELIVERED TO THE REGIONAL TRAFFIC UNIT. SIGNS SHALL BE CAREFULLY REMOVED FROM THE SUPPORTS, SORTED BY BASE MATERIAL AND PALLETIZED BY MATERIAL TYPE. ONLY AND ALL ALUMINUM SIGNS NEED TO BE RETURNED TO REGION. THE REGIONAL TRAFFIC UNIT, 920-492-5653, SHALL BE NOTIFIED THREE WORKING DAYS PRIOR TO DELIVERY OF THE SIGNS.

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

COORDINATE THE REMOVAL OF EXISTING TRAFFIC CONTROL SIGNS WITH THE 1517-75-75 PROJECT CONTRACTOR.

FOR FIXED MESSAGE SIGN 131A, REMOVE AND STORE SIGN AND SUPPORTS AT FIELD OFFICE UNTIL CONSTRUCTION OF RACINE ROAD IS COMPLETED. PLACE SIGN IN SAME GENERAL AREA AFTER CONSTRUCTION WITH PROPER SIGN SPACING TO PERMANENT SIGNS LOCATED ALONG RACINE ST.

LEGEND

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

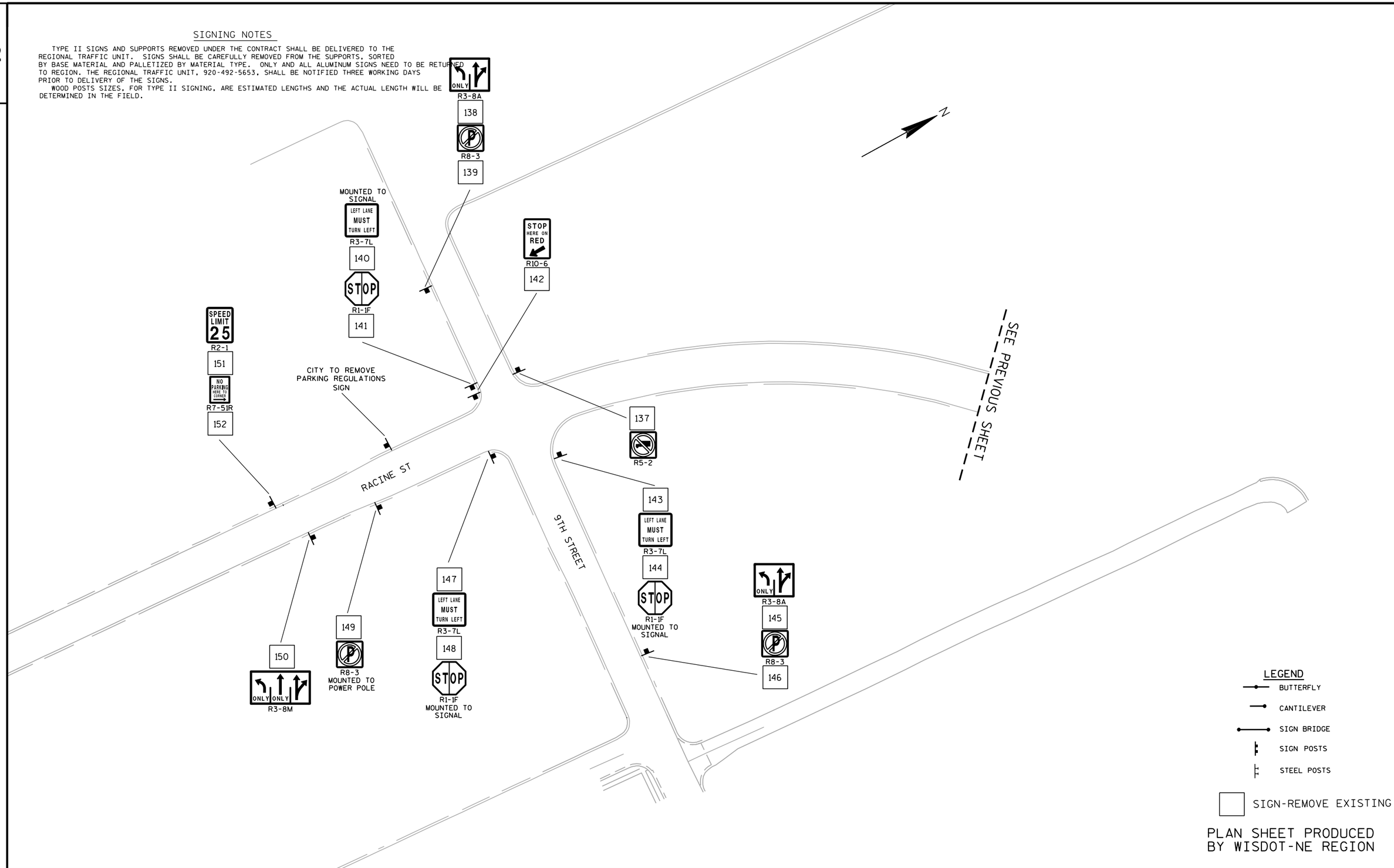
PLAN SHEET PRODUCED BY WisDOT-NE REGION

PROJECT NO: 1517-75-76	HWY: USH 10	COUNTY: WINNEBAGO	SIGN REMOVALS	SHEET 102	E

SIGNING NOTES

TYPE II SIGNS AND SUPPORTS REMOVED UNDER THE CONTRACT SHALL BE DELIVERED TO THE REGIONAL TRAFFIC UNIT. SIGNS SHALL BE CAREFULLY REMOVED FROM THE SUPPORTS, SORTED BY BASE MATERIAL AND PALLETIZED BY MATERIAL TYPE. ONLY AND ALL ALUMINUM SIGNS NEED TO BE RETURNED TO REGION. THE REGIONAL TRAFFIC UNIT, 920-492-5653, SHALL BE NOTIFIED THREE WORKING DAYS PRIOR TO DELIVERY OF THE SIGNS.

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



PROJECT NO: 1517-75-76	HWY: USH 10	COUNTY: WINNEBAGO	SIGN REMOVALS	SHEET 103	E

LIGHTING PLAN LEGEND

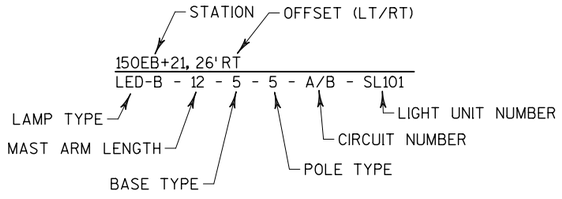
PROPOSED LIGHT POLE LOCATION; CONCRETE BASES TYPE 5 WITH TYPE 5 ALUMINUM POLE AS SHOWN ON THE PLANS

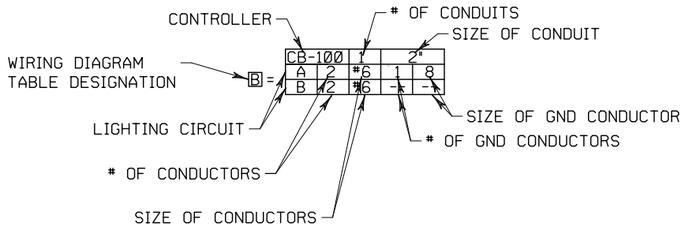
ELECTRICAL SERVICE METER BREAKER PEDESTAL AS SHOWN ON PLANS

CONTROL CABINET & BASE (L-30) FOR ROUNDABOUT AND LOCAL LIGHTING CONTROL

---------- CONDUIT RIGID NONMETALLIC

24"X42" NON-CONDUCTIVE PULL BOX





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. FUNISH 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. 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.
10. LIGHTING SYMBOLS ARE ENLARGED FOR CLARITY, USE CENTER OF SYMBOL TO LOCATE EQUIPMENT IN THE FIELD.
11. 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.

LIGHTING PLANS PREPARED BY:

AECOM
342 N Water Street, 7th Floor
Milwaukee, WI 53202
(414) 831-4100

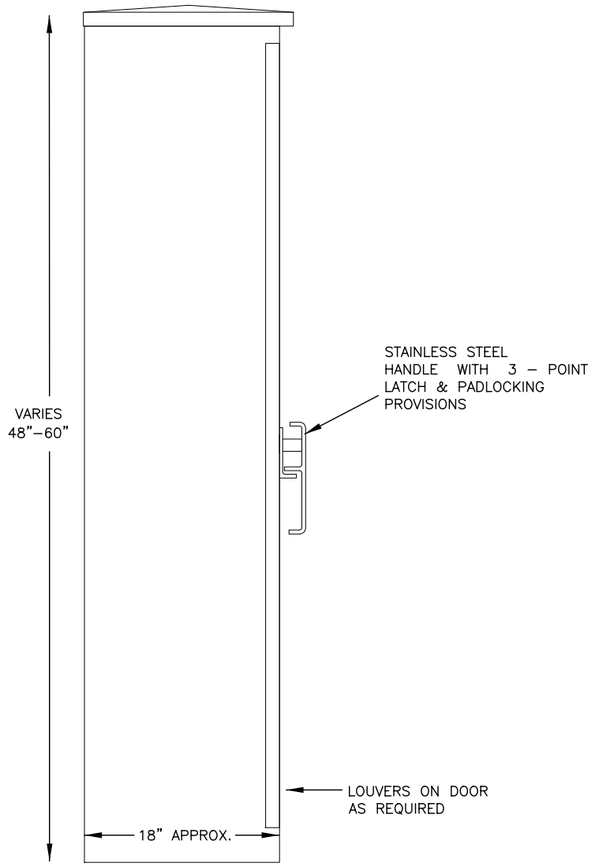
WISCONSIN
MOHAMMED A ELSHOLI
E-37874-6
ORLAND HILLS
ILLINOIS
PROFESSIONAL ENGINEER

1/26/2015 (Date)

(Signature)

PROJECT NO: 1517-75-76	HWY: USH 10	COUNTY: WINNEBAGO	LIGHTING PLAN - TITLE SHEET	SHEET 104	E

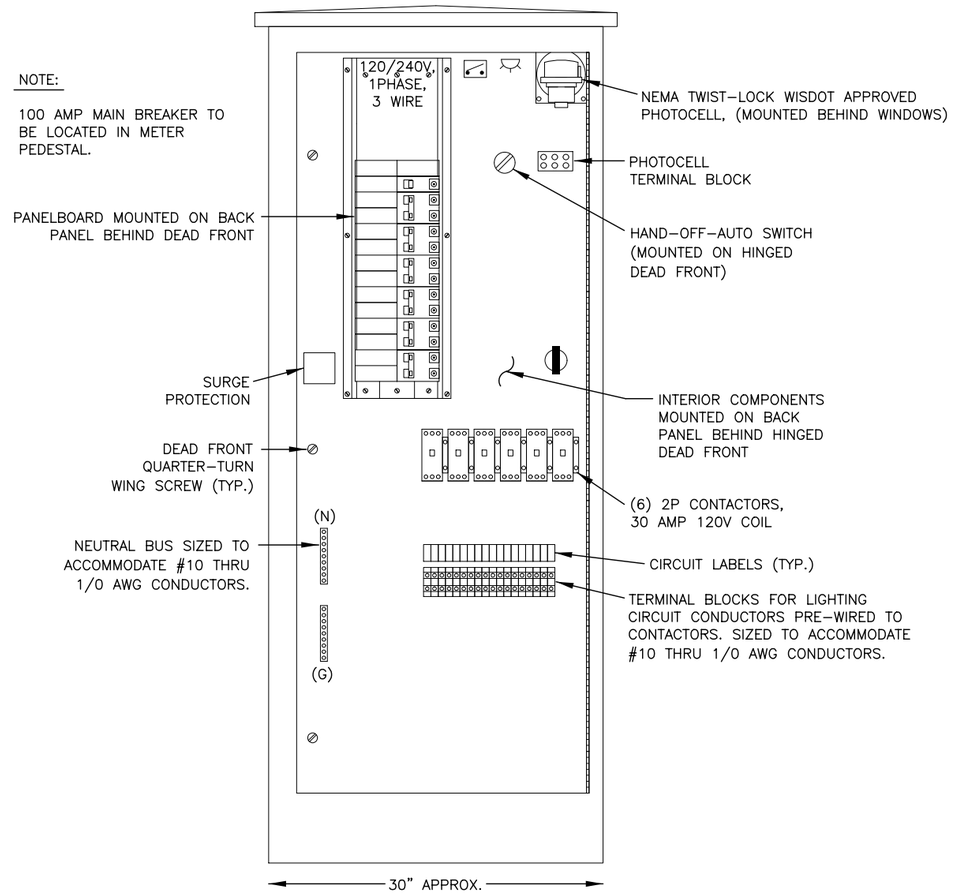
LEFT SIDE VIEW



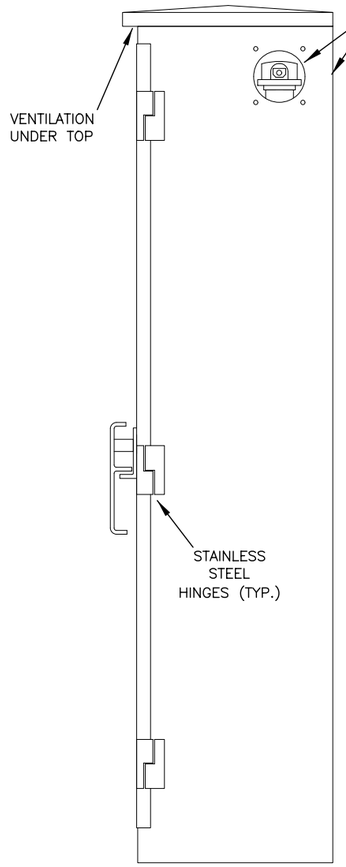
FRONT INTERIOR ELEVATION

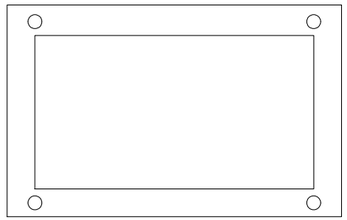
NOTE:

100 AMP MAIN BREAKER TO BE LOCATED IN METER PEDESTAL.



RIGHT SIDE VIEW





BASE FLANGE WITH GASKET

NOTES:

1) ALL FEEDER/BRANCH CIRCUITS TO INCLUDE NEC SIZED EQUIPMENT GROUND CONDUCTORS.
2) REFER TO PLAN DRAWINGS FOR FEEDER/BRANCH CIRCUIT WIRE AND CONDUIT SIZES.
3) REFER TO DETAIL DRAWINGS FOR CONCRETE MOUNTING PAD DETAILS.

LEGEND

- 20 AMP GFCI DUPLEX RECEPTACLE WITH COVER, 120V
- SPST, 20 AMP SWITCH ON DOOR, TO TURN ON LIGHT WHEN DOOR IS OPEN
- 13 LED, 3 WATT, 120V LIGHT BAR

PANELBOARD:

- 30 CIRCUIT MIN.
- 100 AMP MAIN LUGS ONLY
- COPPER BUS
- BOLT–ON BREAKERS
- 22K AIC
- REFER TO SCHEMATICS FOR BREAKERS REQ'D.

BOX CONSTRUCTION:

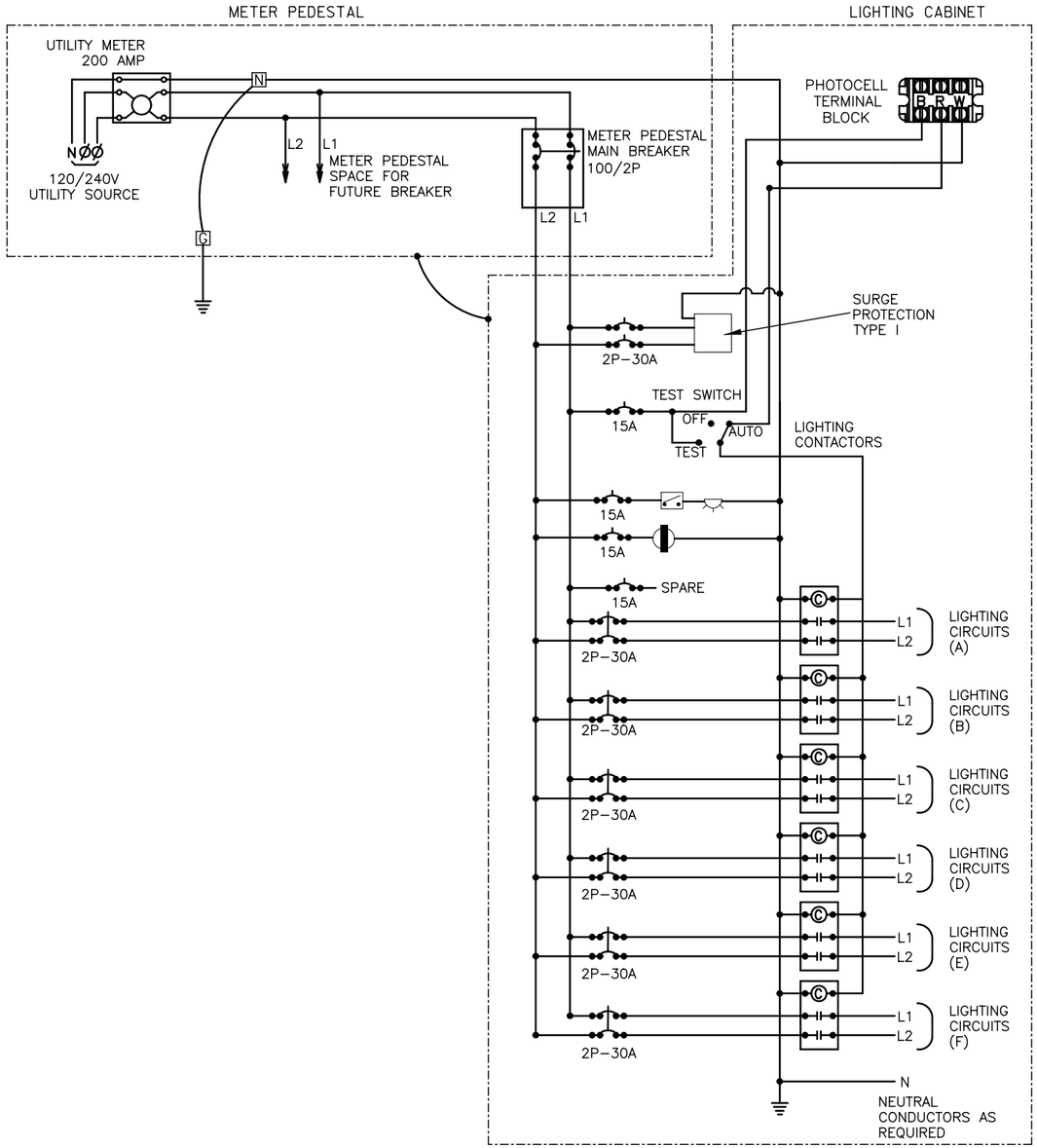
- NEMA 3R
- UL 508A LISTED AND LABELED
- 1/8" ALUMINUM 5052–H32 ANODIZED CLEAR
- BENT CONSTRUCTION – ONE PIECE SIDES AND BACK
- NEOPRENE GASKETED DOORS
- STAINLESS STEEL HARDWARE
- ETL LISTED IN ACCORDANCE W/UL508A
- DOOR KEEP TO HOLD DOOR WHILE OPEN

LIGHTING CONTROL CABINET - ROUNDABOUT/MENASHA

NO SCALE

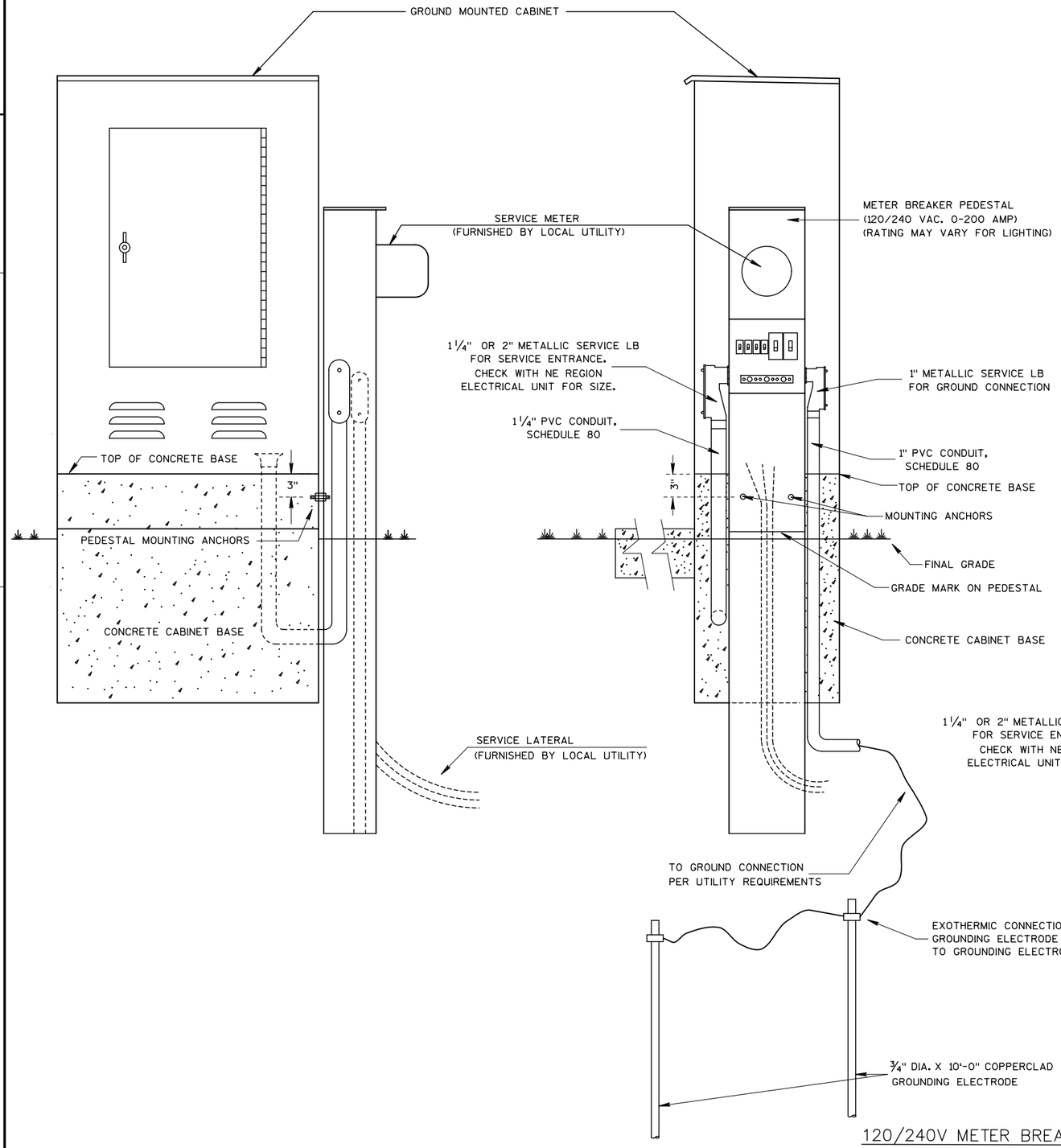
SHEET 1 OF 2

PROJECT NO: 1517-75-76	HWY: USH 10	COUNTY: WINNEBAGO	LIGHTING - CONSTRUCTION DETAILS - ROUNDABOUT LIGHTING CABINET	SHEET 105	E



LIGHTING CONTROL CABINET - ROUNDABOUT/MENASHA - SCHEMATICS

NO SCALE SHEET 2 OF 2



120/240V METER BREAKER PEDESTAL
NOT TO SCALE

GENERAL NOTES

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

THE EXACT LOCATION OF THE METER BREAKER PEDESTAL SHALL BE DETERMINED BY THE ENGINEER IN THE FIELD.

THE TYPE OF CONCRETE CABINET BASE TO BE INSTALLED SHALL BE AS CALLED FOR IN THE PLANS.

TO FACILITATE FLUSH MOUNTING OF THE METER BREAKER PEDESTAL AGAINST THE SIDE OF THE CABINET BASE (IF FLUSH MOUNTING POSSIBLE. CONFER WITH THE LOCAL UTILITY TO DETERMINE WHICH SIDE OF THE CONCRETE BASE THE ELECTRICAL SERVICE LATERAL WILL APPROACH. THEN FORM THAT INDICATED SIDE FOR FULL SIDE DEPTH.

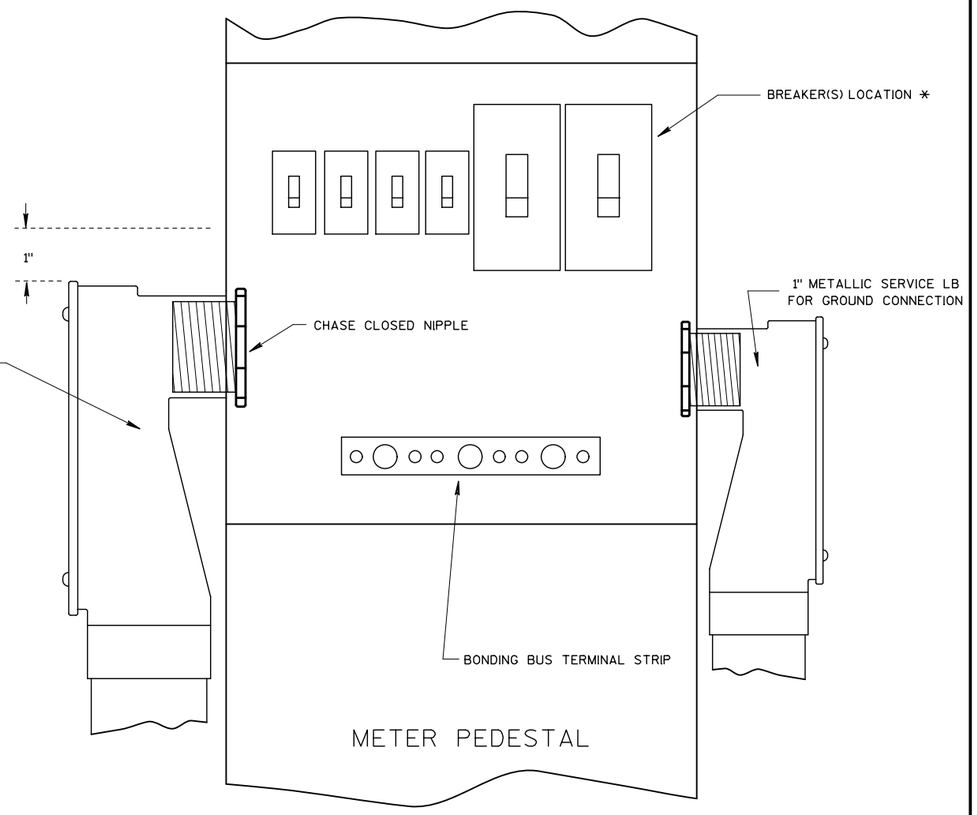
WHILE FLUSH MOUNTING IS THE MOST DESIRABLE MOUNTING CONFIGURATION UTILITY REQUIREMENTS MAY PRECLUDE THIS OPTION. CONTRACTOR MUST PROVIDE UTILITY APPROVED PEDESTAL AND INSTALL PER UTILITY AND MANUFACTURERS REQUIREMENTS.

SERVICE CONDUCTOR ENTRANCES SHALL BE RIGID METALLIC CONDUIT OR SCHEDULE 80 PVC, NIPPLES AND/OR CONDULETS AS REQUIRED. CONDUIT LB SHALL BE OF METALLIC SERVICE ENTRANCE TYPE.

SERVICE CONDUCTOR ENTRANCES SHALL BE SIZED AND LOCATED AS REQUIRED BY THE LOCAL UTILITY AND IN ACCORDANCE WITH APPROPRIATE ARTICLES OF THE LATEST ACCEPTED NATIONAL ELECTRICAL CODE.

IF MORE THAN ONE GROUNDING ELECTRODE IS REQUIRED, THE DISTANCE APART SHALL BE 6 FEET OR PER NEC.

* SOME PEDESTAL LIGHTING PLANS SHOW MAIN LUGS ONLY.



PROJECT NO: 1517-75-76	HWY: USH 10	COUNTY: WINNEBAGO	LIGHTING - CONSTRUCTION DETAILS - NER METER PEDESTAL	SHEET 107	E

2

120/240 VOLT, 1-PHASE SERVICE PEDESTAL RACINE ROAD ROUNDABOUT
LOCATION: STA: 24RSWC+80, 50' RT

L70-2012 WIS441/US10 RACINE ROAD ROUNDABOUT LIGHTING CABINET (CB-600) - DOT

Electrical Panel: CB-600

Rating: 100A — ROUNDABOUT LIGHTING CABINET PANELBOARD
Voltage: 120/240 Volts, _1__ Phase __3___ Wire — DOT CABINET — CONTRACT: 1517-75-76
Feeder Conductors: __2____AWG — LIGHTING LOAD — RACINE ROAD ROUNDABOUT & CONNECTOR ROAD
Main Brkr: 100 A - 2P (IN METER PEDESTAL)

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	182		X		91		CIRCUIT B	2	30	2
3					182		X		91				4
5	30	2	CIRCUIT C	273		X		273		CIRCUIT D	2	30	6
7					273		X		273				8
9	30	2	CIRCUIT E	364		X		364		CIRCUIT F	2	30	10
11					364		X		364				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	20	1	SPARE			X				SPARE	1	20	22
23	20	1	SPARE				X			SPARE	1	20	24
			TOTALS	819	819			728	728	TOTALS			

BUS A: 1547
BUS B: 1547

LOAD: 3094

3.09 KVA DEMAND

120/240 VOLT, 1-PHASE SERVICE PEDESTAL RACINE ROAD
LOCATION: STA: 26RSWC+50, 50' RT

RACINE ROAD PROPOSED ROADWAY LIGHTING CABINET (CB-700) - CITY OF MENASHA

Electrical Panel: CB-700

Rating: 100A — RACINE ROAD LIGHTING CABINET PANELBOARD
Voltage: 120/240 Volts, _1__ Phase __3___ Wire — MENASHA CABINET — CONTRACT: 1517-75-76
Feeder Conductors: __2____AWG — LIGHTING LOAD — Racine Road North of 9th Street to RAB
Main Brkr: 100 A - 2P (IN METER PEDESTAL)

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	91		X				CIRCUIT B	2	30	2
3					91		X						4
5	30	2	CIRCUIT C	182		X		91		CIRCUIT D	2	30	6
7					182		X		91				8
9	30	2	CIRCUIT E	273		X		273		CIRCUIT F	2	30	10
11					273		X		273				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	20	1	SPARE			X				SPARE	1	20	22
23	20	1	SPARE				X			SPARE	1	20	24
			TOTALS	546	546			364	364	TOTALS			

BUS A: 910
BUS B: 910

LOAD: 1820

1.82 KVA DEMAND

NOTES:

1. LOADS SHOWN ARE FOR INFORMATION ONLY AND WILL VARY BY FIXTURE AND MANUFACTURER.
2. PROVIDE AND INSTALL PANELBOARD AND ALL CIRCUIT BREAKERS ACCORDING TO NER LIGHTING CONTROL CABINET DETAILS INCLUDED IN THIS PLAN SET.

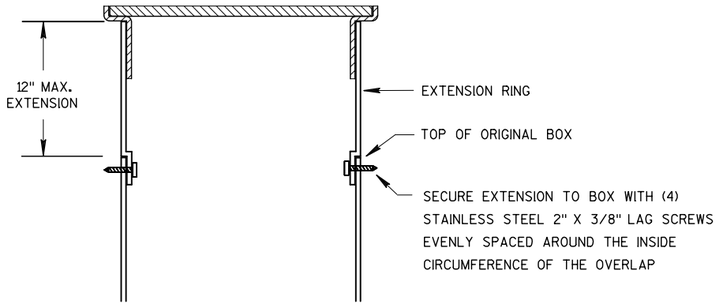
2

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

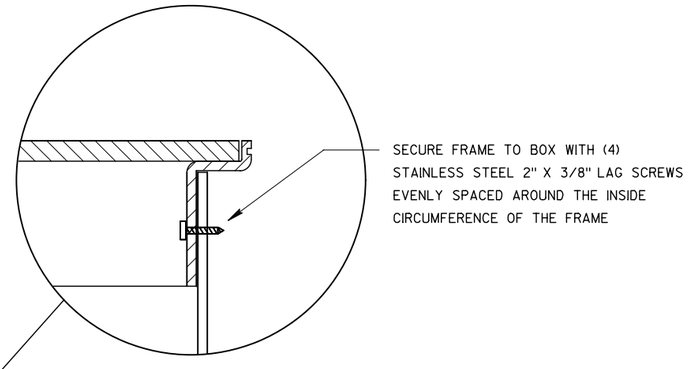
* THE ACTUAL WEIGHT OF THE COVER MAY VARY NOT TO EXCEED 100 LBS.

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

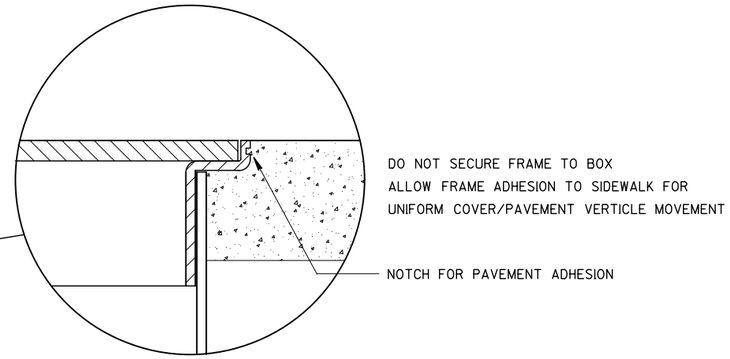


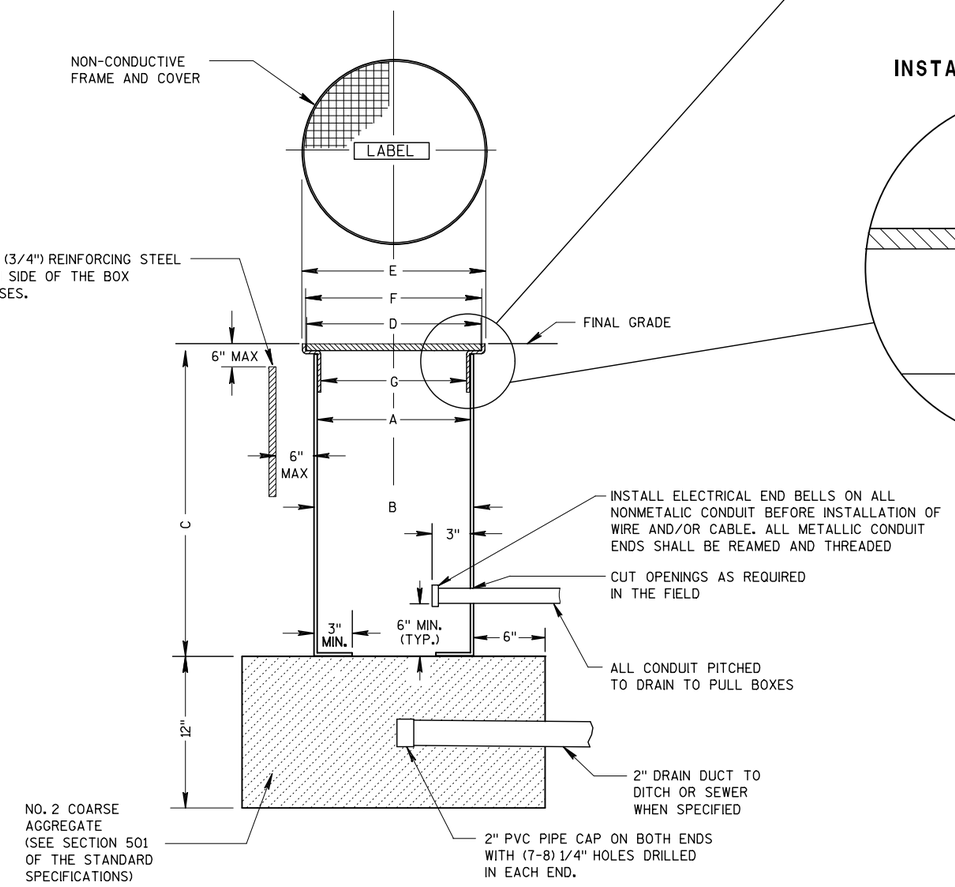
BOX EXTENSION

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,

WISDOT SYSTEMS

■ 1

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

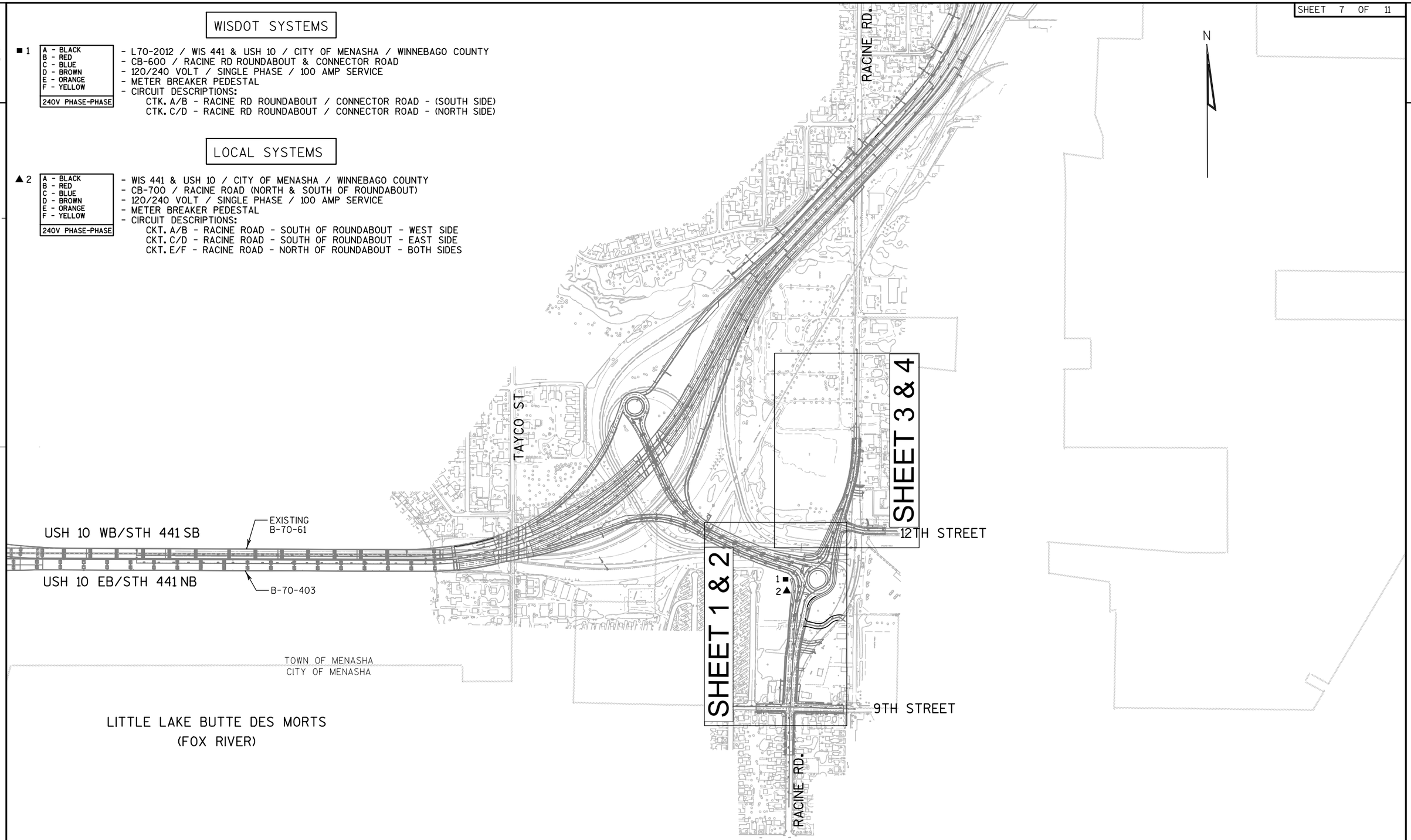
- L70-2012 / WIS 441 & USH 10 / CITY OF MENASHA / WINNEBAGO COUNTY
- CB-600 / RACINE RD ROUNDABOUT & CONNECTOR ROAD
- 120/240 VOLT / SINGLE PHASE / 100 AMP SERVICE
- METER BREAKER PEDESTAL
- CIRCUIT DESCRIPTIONS:
  - CTK. A/B - RACINE RD ROUNDABOUT / CONNECTOR ROAD - (SOUTH SIDE)
  - CTK. C/D - RACINE RD ROUNDABOUT / CONNECTOR ROAD - (NORTH SIDE)

LOCAL SYSTEMS

▲ 2

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

- WIS 441 & USH 10 / CITY OF MENASHA / WINNEBAGO COUNTY
- CB-700 / RACINE ROAD (NORTH & SOUTH OF ROUNDABOUT)
- 120/240 VOLT / SINGLE PHASE / 100 AMP SERVICE
- METER BREAKER PEDESTAL
- CIRCUIT DESCRIPTIONS:
  - CKT. A/B - RACINE ROAD - SOUTH OF ROUNDABOUT - WEST SIDE
  - CKT. C/D - RACINE ROAD - SOUTH OF ROUNDABOUT - EAST SIDE
  - CKT. E/F - RACINE ROAD - NORTH OF ROUNDABOUT - BOTH SIDES



PROJECT NO: 1517-75-76	HWY: USH 10	COUNTY: WINNEBAGO	LIGHTING PLAN OVERVIEW	SHEET 110	E

2

RACINE ROAD ROUNDABOUT
CITY OF MENASHA
WINNEBAGO COUNTY

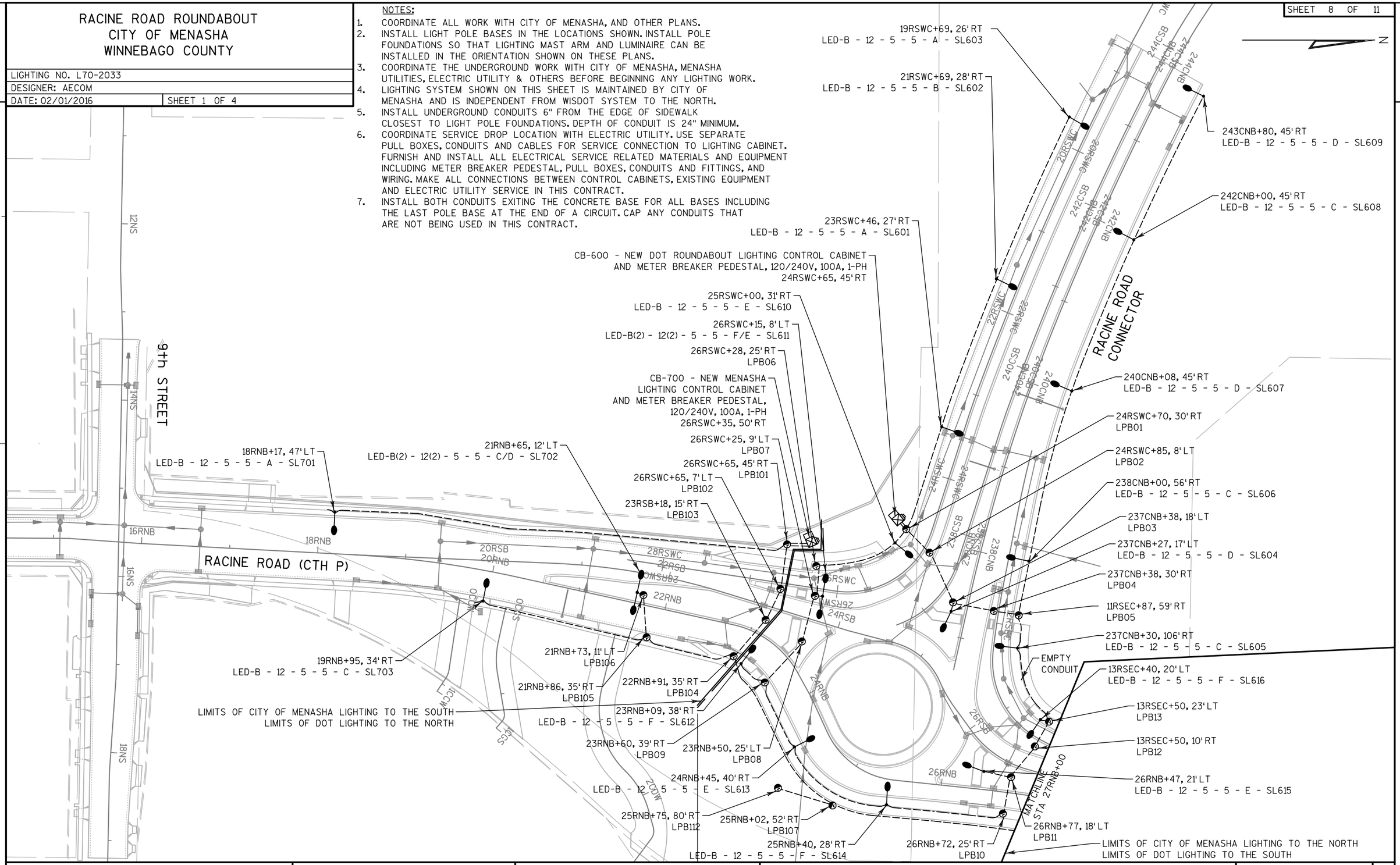
LIGHTING NO. L70-2033

DESIGNER: AECOM

DATE: 02/01/2016 | SHEET 1 OF 4

NOTES:

1. COORDINATE ALL WORK WITH CITY OF MENASHA, AND OTHER PLANS.
2. INSTALL LIGHT POLE BASES IN THE LOCATIONS SHOWN. INSTALL POLE FOUNDATIONS SO THAT LIGHTING MAST ARM AND LUMINAIRE CAN BE INSTALLED IN THE ORIENTATION SHOWN ON THESE PLANS.
3. COORDINATE THE UNDERGROUND WORK WITH CITY OF MENASHA, MENASHA UTILITIES, ELECTRIC UTILITY & OTHERS BEFORE BEGINNING ANY LIGHTING WORK.
4. LIGHTING SYSTEM SHOWN ON THIS SHEET IS MAINTAINED BY CITY OF MENASHA AND IS INDEPENDENT FROM WISDOT SYSTEM TO THE NORTH.
5. INSTALL UNDERGROUND CONDUITS 6" FROM THE EDGE OF SIDEWALK CLOSEST TO LIGHT POLE FOUNDATIONS. DEPTH OF CONDUIT IS 24" MINIMUM.
6. COORDINATE SERVICE DROP LOCATION WITH ELECTRIC UTILITY. USE SEPARATE PULL BOXES, CONDUITS AND CABLES FOR SERVICE CONNECTION TO LIGHTING CABINET. FURNISH AND INSTALL ALL ELECTRICAL SERVICE RELATED MATERIALS AND EQUIPMENT INCLUDING METER BREAKER PEDESTAL, PULL BOXES, CONDUITS AND FITTINGS, AND WIRING. MAKE ALL CONNECTIONS BETWEEN CONTROL CABINETS, EXISTING EQUIPMENT AND ELECTRIC UTILITY SERVICE IN THIS CONTRACT.
7. INSTALL BOTH CONDUITS EXITING THE CONCRETE BASE FOR ALL BASES INCLUDING THE LAST POLE BASE AT THE END OF A CIRCUIT. CAP ANY CONDUITS THAT ARE NOT BEING USED IN THIS CONTRACT.



PROJECT NO: 1517-75-76	HWY: USH 10	COUNTY: WINNEBAGO	LIGHTING PLAN	SHEET 111	E

RACINE ROAD ROUNDABOUT
CITY OF MENASHA
WINNEBAGO COUNTY

LIGHTING NO. L70-2033
DESIGNER: AECOM
DATE: 02/01/2016 | SHEET 2 OF 4

2

[J] =

CB-700	2	3"		
A	2	#8	1	8
B	--	--	--	--
C	2	#8	1	8
D	2	#8	--	--
E	2	#6	1	8
F	2	#6	--	--

[K] =

CB-700	1	2"		
A	2	#8	1	8

[L] =

CB-700	1	3"		
C	2	#8	1	8
D	2	#8	--	
E	2	#6	1	8
F	2	#6	--	--

[M] =

CB-700	1	2"		
C	2	#8	1	8

[N] =

CB-700	1	2"		
E	2	#6	1	8
F	2	#6	--	--

[O] =

CB-700	1	2"		
C(2)	4	#8	1	8
D	2	#8	1	8

[P] =

CB-700	1	2"		
C	2	#8	1	8
D	2	#8	--	--

[A] =

CB-600	2	3"		
A	2	#8	1	8
B	2	#8	--	--
C	2	#8	1	8
D	2	#8	--	--
E	2	#8	1	8
F	2	#8	--	--

[B] =

CB-600	1	2"		
A	2	#8	1	8
B	2	#8	--	

[C] =

CB-600	1	3"		
C	2	#8	1	8
D	2	#8	--	

[D] =

CB-600	1	2"		
C	2	#8	1	8
D	2	#8	--	--

[E] =

CB-600	1	3"		
E	2	#8	1	8
F	2	#8	--	--

[F] =

CB-600	1	2"		
E	2	#8	1	8
F	2	#8	--	--

[G] =

CB-600	1	2"		
A	2	#8	1	8

[H] =

CB-600	1	2"		
D	2	#8	1	8

[I] =

CB-600	1	2"		
F	2	#8	1	8

[Q] =

CB-600	1	3"		
F	2	#8	1	8

[R] =

CB-600	1	2"		
C(2)	4	#8	1	8
D(2)	4	#8	1	8

[U] =

CB-600	1	2"		
E	2	#8	2	8

[V] =

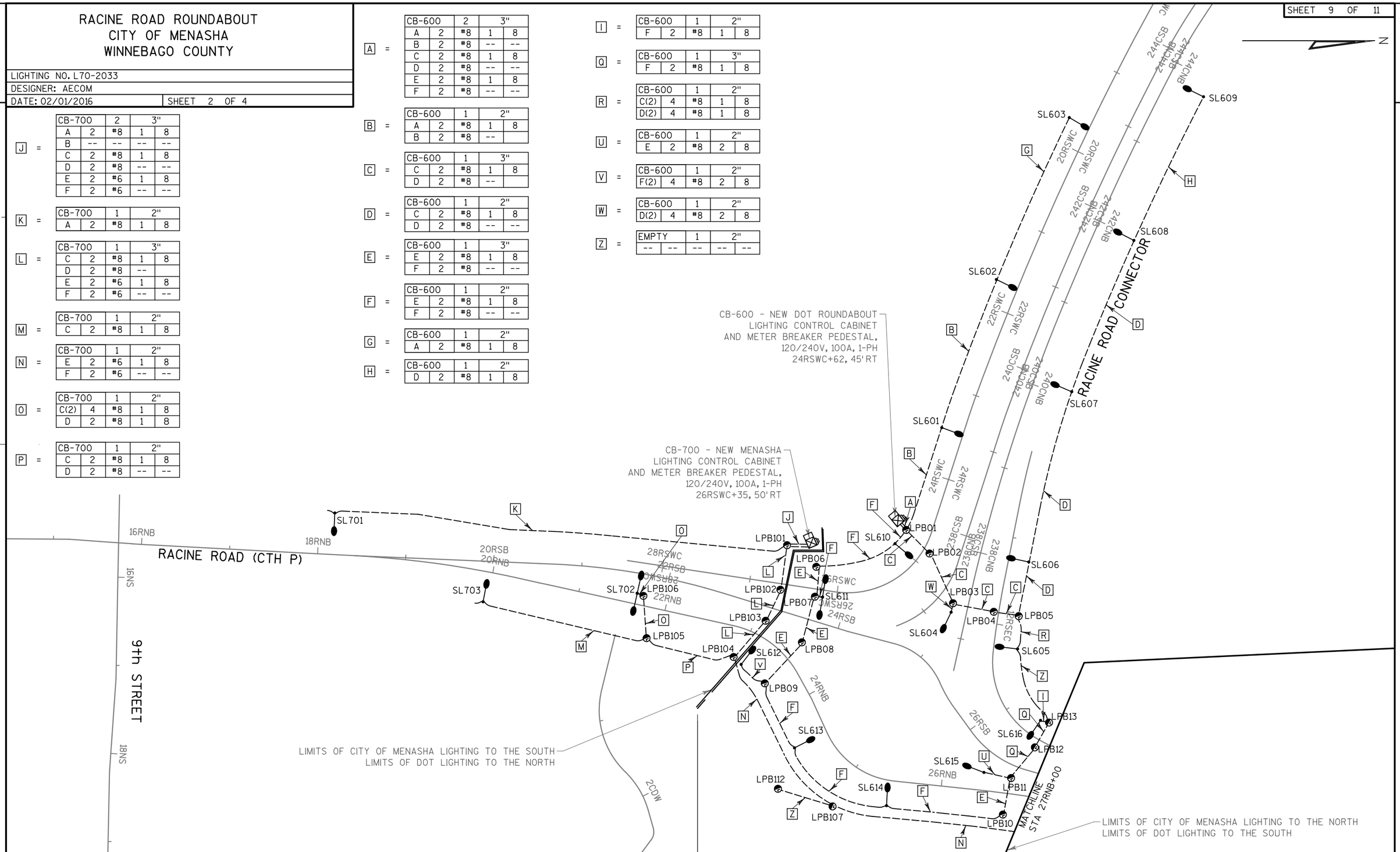
CB-600	1	2"		
F(2)	4	#8	2	8

[W] =

CB-600	1	2"		
D(2)	4	#8	2	8

[Z] =

EMPTY	1	2"		
--	--	--	--	--

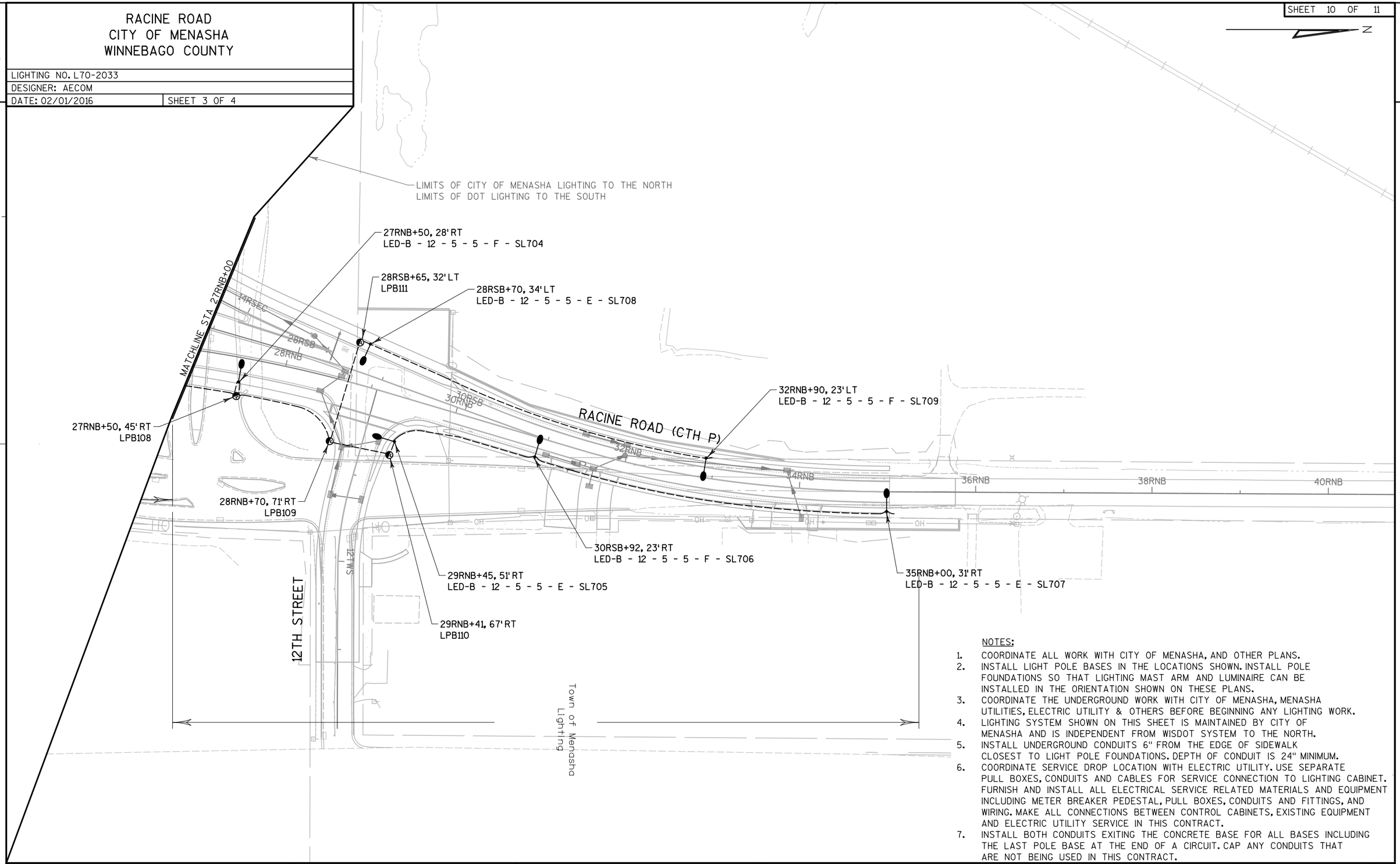


PROJECT NO: 1517-75-76	HWY: USH 10	COUNTY: WINNEBAGO	LIGHTING PLAN - WIRING SCHEMATIC	SHEET 112	E

2

RACINE ROAD
CITY OF MENASHA
WINNEBAGO COUNTY

LIGHTING NO. L70-2033
DESIGNER: AECOM
DATE: 02/01/2016 | SHEET 3 OF 4



NOTES:

1. COORDINATE ALL WORK WITH CITY OF MENASHA, AND OTHER PLANS.
2. INSTALL LIGHT POLE BASES IN THE LOCATIONS SHOWN. INSTALL POLE FOUNDATIONS SO THAT LIGHTING MAST ARM AND LUMINAIRE CAN BE INSTALLED IN THE ORIENTATION SHOWN ON THESE PLANS.
3. COORDINATE THE UNDERGROUND WORK WITH CITY OF MENASHA, MENASHA UTILITIES, ELECTRIC UTILITY & OTHERS BEFORE BEGINNING ANY LIGHTING WORK.
4. LIGHTING SYSTEM SHOWN ON THIS SHEET IS MAINTAINED BY CITY OF MENASHA AND IS INDEPENDENT FROM WISDOT SYSTEM TO THE NORTH.
5. INSTALL UNDERGROUND CONDUITS 6" FROM THE EDGE OF SIDEWALK CLOSEST TO LIGHT POLE FOUNDATIONS. DEPTH OF CONDUIT IS 24" MINIMUM.
6. COORDINATE SERVICE DROP LOCATION WITH ELECTRIC UTILITY. USE SEPARATE PULL BOXES, CONDUITS AND CABLES FOR SERVICE CONNECTION TO LIGHTING CABINET. FURNISH AND INSTALL ALL ELECTRICAL SERVICE RELATED MATERIALS AND EQUIPMENT INCLUDING METER BREAKER PEDESTAL, PULL BOXES, CONDUITS AND FITTINGS, AND WIRING. MAKE ALL CONNECTIONS BETWEEN CONTROL CABINETS, EXISTING EQUIPMENT AND ELECTRIC UTILITY SERVICE IN THIS CONTRACT.
7. INSTALL BOTH CONDUITS EXITING THE CONCRETE BASE FOR ALL BASES INCLUDING THE LAST POLE BASE AT THE END OF A CIRCUIT. CAP ANY CONDUITS THAT ARE NOT BEING USED IN THIS CONTRACT.

PROJECT NO: 1517-75-76	HWY: USH 10	COUNTY: WINNEBAGO	LIGHTING PLAN	SHEET 113	E

2

RACINE ROAD
CITY OF MENASHA
WINNEBAGO COUNTY

LIGHTING NO. L70-2033
DESIGNER: AECOM
DATE: 09/15/2015 | SHEET 4 OF 4

[N] =

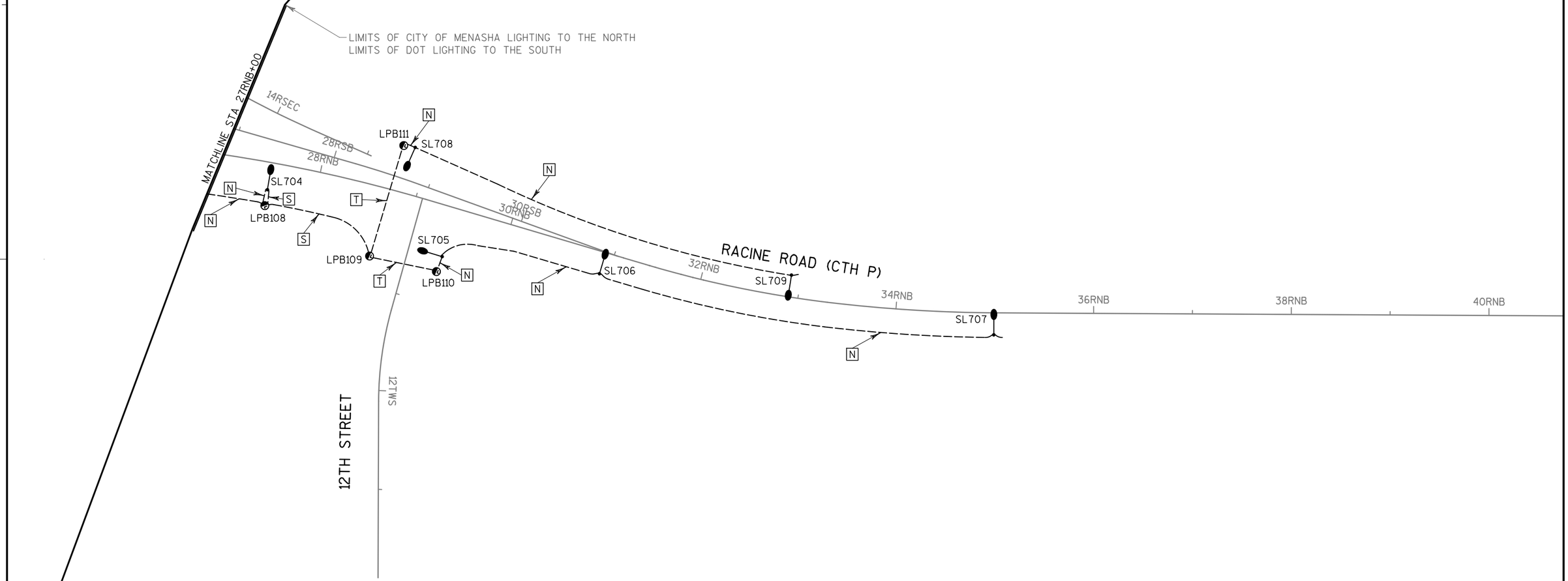
CB-700		1	2"	
E	2	#6	1	8
F	2	#6	--	--

[S] =

CB-700		1	2"	
E(2)	4	#6	1	8
F(2)	4	#6	1	8

[T] =

CB-700		1	3"	
E	2	#6	1	8
F	2	#6	--	--



PROJECT NO: 1517-75-76	HWY: USH 10	COUNTY: WINNEBAGO	LIGHTING PLAN - WIRING SCHEMATIC	SHEET 114	E

2

LEGEND

- CONTROL CABINET TO BE SALVAGED
- NONMETALLIC CONDUIT
- LOOP DETECTOR CONDUIT
- LOOP DETECTOR
- SIGNAL HEAD, PEDESTAL BASE TO BE SALVAGED
- SIGNAL HEAD, TRAFFIC SIGNAL POLE, TRANSFORMER BASE TO BE SALVAGED
- PEDESTRIAN HEAD WITH PUSH BUTTON TO BE SALVAGED
- LUMINAIRE TO BE SALVAGED
- PULL BOX
- CONCRETE BASE
- ① REMOVE CONCRETE BASE
- ② REMOVE PULL BOX

N

RACINE ST.

17RNB

16RNB

15RNB

RACINE RD.

9TH STREET

14NS

15NS

16NS

17NS

18NS

19NS

REMOVE CONCRETE BASE. BASE IS BURIED, ONLY BOLTS VISIBLE.

NOTE:

1) THE LOCATION OF EXISTING UTILITIES AS SHOWN ON THE PLAN ARE APPROXIMATE. IN ADDITION, THERE MAY BE OTHER UTILITIES WITHIN THE PROJECT WHICH ARE NOT SHOWN. THE CONTRACTOR SHALL VERIFY THE LOCATIONS OF ALL UTILITIES PRIOR TO CONSTRUCTION.

2) THE UNDERGROUND CABLES AND WIRES SHALL BECOME PROPERTY OF THE CONTRACTOR TO BE REMOVED AND DISPOSED OF PROPERLY.

3) EXISTING CONDUIT TO BE ABANDONED IN PLACE.

PROJECT NO: 1517-75-76	HWY: USH 10	COUNTY: WINNEBAGO	TRAFFIC SIGNAL REMOVAL PLAN RACINE STREET & 9TH STREET	SHEET	E

FILE NAME : $$....designfile....$$ PLOT DATE : $$...plottingdate...$$ PLOT BY : $$...plotuser...$$ PLOT NAME : PLOT SCALE : $$.....plotscale.....$$

WISDOT/CADDS SHEET 42

MOUNTING CONFIGURATION WITH HEAD NUMBER			
PROPOSED SIGNAL FACES			
3-V	5-HLP	5-VLP	
(R) (Y) (G)	(R) (Y) (Y) (G) (G)	(R) (Y) (G) (Y) (G)	
ϕ4 7, 8	ϕ7 6	ϕ7 5	PH2-1
ϕ8 3, 4	ϕ3 2	ϕ3 1	PH2-2
ϕ2 11, 12	ϕ5 10	ϕ5 9	PH4-1
ϕ6 15, 16	ϕ1 14	ϕ1 13	PH4-2
			PH6-1
			PH6-2
			PH8-1
			PH8-2
NOTE: ALL LENSES ARE 12-INCH LED			

LEGEND

- CONTROL CABINET
- NONMETALLIC CONDUIT 2", UNLESS OTHERWISE NOTED
- LOOP DETECTOR CONDUIT 1" NONMETALLIC
- SIGNAL HEAD, PEDESTAL BASE
- (XX) SIGNAL HEAD, TRAFFIC SIGNAL POLE, TRANSFORMER BASE
- PEDESTRIAN HEAD WITH PUSH BUTTON
- LUMINAIRE (MOUNTED ON TRAFFIC SIGNAL POLE)
- LOOP DETECTOR WITH PULL BOX IN 1" NONMETALLIC CONDUIT
- PULL BOX, 24" X 36"
- PULL BOX, 24" X 42"
- [4] SIGNAL HEAD NUMBER
- [PH8-1] WALK/DON'T WALK INDICATOR 16" (COUNTDOWN TIMER)

CONSTRUCTION NOTES:

1. * LOCATION IS TO FRONT CENTER OF DETECTOR LOOP
2. THE CONTRACTOR SHALL HAVE THE PULL BOXES AND CONDUIT RUNS INSPECTED 3 DAYS PRIOR TO PLACING SIGNAL CABLE INTO SYSTEM.
3. THE LOCATIONS OF EXISTING AND PROPOSED UTILITY INSTALLATIONS ARE APPROXIMATE. THERE MAY BE OTHER UTILITY INSTALLATIONS WITHIN THE PROJECT WHICH ARE NOT SHOWN.
4. INSTALL ALL PEDESTRIAN PUSH BUTTONS PERPENDICULAR TO THE ADJACENT CURB RAMP.
5. THE CONTRACTOR SHALL PROVIDE THREE (3) DAYS NOTICE TO THE CITY OF MENASHA PUBLIC WORKS FOR LOOP DETECTOR INSTALLATION INSPECTION PRIOR TO PAVING.

TRAFFIC CONTROL SIGNAL
RACINE ST & 9TH ST
CITY OF MENASHA
WINNEBAGO COUNTY

SIGNAL NO.

REGION CONTACT:
DESIGNED BY:
REVISED BY:

PAGE OF

PROJECT NO: 1517-75-76	HWY: USH 10	COUNTY: WINNEBAGO	TRAFFIC SIGNAL PLAN RACINE STREET & 9TH STREET	SHEET E

FILE NAME : $$....designfile....$$ PLOT DATE : $$...plottingdate...$$ PLOT BY : $$...plotuser...$$ PLOT NAME : PLOT SCALE : $$.....plotscale.....$$ WISDOT/CADDS SHEET 42

SEQUENCE OF OPERATION

RING 1

	HEAD NUMBERS	01 R/W	01 CLEAR TO **	02 R/W	02 CLEAR TO **	03 R/W	03 CLEAR TO **	04 R/W	04 CLEAR TO **	FLASH
01	13, 14	G	Y –	–	– –	–	– –	–	– –	
02	9, 10, 11, 12	R	R R	G	Y R	R	R R	R	R R	
03	1, 2	–	– –	–	– –	G	Y –	–	– –	
04	5, 6, 7, 8	R	R R	R	R R	R	R R	G	Y R	
05	9, 10	–	– –	–	– –	–	– –	–	– –	
06	13, 14, 15, 16	R	R R	R	R R	R	R R	R	R R	
07	5, 6	–	– –	–	– –	–	– –	–	– –	
08	1, 2, 3, 4	R	R R	R	R R	R	R R	R	R R	
02P	2-1, 2-2	D	D D	*		D	D D	D	D D	
04P	4-1, 4-2	D	D D	D	D D	D	D D	*		
06P	6-1, 6-2	D	D D	D	D D	D	D D	D	D D	
08P	8-1, 8-2	D	D D	D	D D	D	D D	D	D D	

RING 2

	HEAD NUMBERS	05 R/W	05 CLEAR TO **	06 R/W	06 CLEAR TO **	07 R/W	07 CLEAR TO **	08 R/W	08 CLEAR TO **
01	13, 14	–	– –	–	– –	–	– –	–	– –
02	9, 10, 11, 12	R	R R	R	R R	R	R R	R	R R
03	1, 2	–	– –	–	– –	–	– –	–	– –
04	5, 6, 7, 8	R	R R	R	R R	R	R R	R	R R
05	9, 10	G	Y –	–	– –	–	– –	–	– –
06	13, 14, 15, 16	R	R R	G	Y R	R	R R	R	R R
07	5, 6	–	– –	–	– –	G	Y –	–	– –
08	1, 2, 3, 4	R	R R	R	R R	R	R R	G	Y R
02P	2-1, 2-2	D	D D	D	D D	D	D D	D	D D
04P	4-1, 4-2	D	D D	D	D D	D	D D	D	D D
06P	6-1, 6-2	D	D D	*		D	D D	D	D D
08P	8-1, 8-2	D	D D	D	D D	D	D D	*	

DETECTOR LOGIC

DETECTOR NUMBER	AMPLIFIER CHANNEL NUMBER	DETECTOR OPERATION: CALLS AND EXTENDS	CALLS ONLY	EXTENDS ONLY	PHASE CALLED	PHASE EXTENDED	DETECTOR DISCONNECT PHASE	CALLING DELAY	EXTENSION STRETCH	SIZE	NUMBER OF TURNS
11	1"									6x6	4
12	2	X			1	1				6x20	3
21	3"			X	2	2				6x6	3
22	4"									6x6	3
31	5"	X			3	3				6x6	4
41	6"	X			4	4				6x6	3
42	7	X			4	4				6x20	2
43	8	X			4	4		X		6x20	2
51	9"									6x6	3
52	10	X			5	5				6x20	2
61	11"			X	6	6				6x6	4
62	12"			X	6	6				6x6	4
71	13"	X			7	7				6x6	3
81	14"	X			8	8				6x6	4
82	15	X			8	8				6x20	3
83	16"									6x6	4
84	17		X		8	8		X		6x20	3
85	18	X			8	8		X		6x20	3

CONTROLLER LOGIC

PHASE NUMBER	PHASE LOCKING	DUAL ENTRY W / Ø	PHASE RECALL	PHASE ACTIVE
1		6		X
2	X	6	MIN.	X
3		8		X
4		8		X
5		2		X
6	X	2	MIN.	X
7		4		X
8		4		X

SPECIAL OVERLAPS

	PROTECTED	PERMISSIVE
O.L. "A"		
O.L. "B"		
O.L. "C"		
O.L. "D"		

TYPE OF LIGHTING	
BY OTHER AGENCY	
IN TRAFFIC SIGNAL CABINET	x
IN SEPARATE DOT LIGHTING CABINET	

N

CHART 1

PHASE ON	NONCONFLICTING PHASE ALLOWED TO TIME CONCURRENTLY	PHASES IN CONFLICT WITH PHASE ON
1	5 OR 6	2, 3, 4, 7, 8
2	5 OR 6	1, 3, 4, 7, 8
3	7 OR 8	1, 2, 4, 5, 6
4	7 OR 8	1, 2, 3, 5, 6
5	1 OR 2	3, 4, 6, 7, 8
6	1 OR 2	3, 4, 5, 7, 8
7	3 OR 4	1, 2, 5, 6, 8
8	3 OR 4	1, 2, 5, 6, 7

TYPE OF PRE-EMPT	
NONE	x
RAILROAD	
EMERGENCY VEHICLE	
3M	
TOMAR	
HARDWIRE	
OTHER	
LIFT BRIDGE	
QUEUE DETECTOR	

TYPE OF INTERCONNECT COMMUNICATION	
NONE	x
TBC	
CLOSED LOOP TWISTED PAIR*	
CLOSED LOOP FIBER OPTIC*	
FIBER OPTIC	
RADIO	
*LOCATION OF MASTER CONTROLLER NO: S-	
SIGNAL SYSTEM #: SS- -	

GENERAL NOTES:

1. ANY ACTUATED PHASE FOR WHICH THERE IS NO CALL SHALL BE SKIPPED.
2. WHEN ONE PHASE IS ON ALONE, ANY NONCONFLICTING PHASE MAY START TIMING CONCURRENTLY WITHOUT A CLEARANCE INTERVAL. (SEE CHART 1.)

** CLEARANCE TO A PHASE IN CONFLICT WITH THIS PHASE ON (SEE CHART 1)

* WHEN CALLED, TIMED STEADY WALK, THEN FLASHING DON'T WALK, THEN GOES TO STEADY DON'T WALK

D = DON'T WALK

DETECTOR IS USED FOR COUNTING PURPOSES

RACINE ST & 9TH ST
CITY OF MENASHA
WINNEBAGO COUNTY

SIGNAL NO.

CONTROLLER TYPE:

DATE PAGE NO. OF

PROJECT NO: 1517-75-76 | HWY: USH 10 | COUNTY: WINNEBAGO | SEQUENCE OF OPERATIONS | SHEET E

FILE NAME : ss....designfile....ss PLOT DATE : ss...plottingdate...ss PLOT BY : ss...plotuser...ss PLOT NAME : PLOT SCALE : ss.....plotscale.....ss WISDOT/CADDS SHEET 42

PROJECT ID:	1517-75-76
INTERSECTION:	RACINE ST & 9TH ST

SIGNAL WIRE COLOR CODING	BLK - BLACK	RED - RED	GRN - GREEN
	WHT - WHITE	BLU - BLUE	ORG - ORANGE

CB1 TO	JUMPER	# OF COND.	HEAD NO.	PHASE	SIGNAL INDICATION WIRE COLOR								PED BUTTON
					RED	YELLOW	GREEN	<RED>	<YELLOW>	<GREEN>	D/WALK	WALK	
SB1		12	2	3, 8	RED	ORG	GRN		ORG/BLK	GRN/BLK			
			3	8	RED	ORG	GRN						
			PH2-2	2P							BLK	BLU	
			2B	2P									WHT/BLK
SB2		12	12	2	RED	ORG	GRN						
			13	1, 6	RED	ORG	GRN		ORG/BLK	GRN/BLK			
			PH8-1	8P							BLK	BLU	
			8B	8P									WHT/BLK
SB3		12	14	1, 6	RED	ORG	GRN		ORG/BLK	GRN/BLK			
			15	6	RED	ORG	GRN						
			PH8-2	8P							BLK	BLU	
			8B	8P									WHT/BLK
SB4		12	4	8	RED	ORG	GRN						
			5	4, 7	RED	ORG	GRN		ORG/BLK	GRN/BLK			
			PH6-1	6P							BLK	BLU	
			6B	6P									WHT/BLK
SB5		12	6	4, 7	RED	ORG	GRN		ORG/BLK	GRN/BLK			
			7	4	RED	ORG	GRN						
			PH6-2	6P							BLK	BLU	
			6B	6P									WHT/BLK
SB6		12	9	2, 5	RED	ORG	GRN		ORG/BLK	GRN/BLK			
			16	6	RED	ORG	GRN						
			PH4-1	4P							BLK	BLU	
			4B	4P									WHT/BLK
SB7		12	10	2, 5	RED	ORG	GRN		ORG/BLK	GRN/BLK			
			11	2	RED	ORG	GRN						
			PH4-2	4P							BLK	BLU	
			4B	4P									WHT/BLK
SB8		12	1	3, 8	RED	ORG	GRN		ORG/BLK	GRN/BLK			
			8	4	RED	ORG	GRN						
			PH2-1	2P							BLK	BLU	
			2B	2P									WHT/BLK

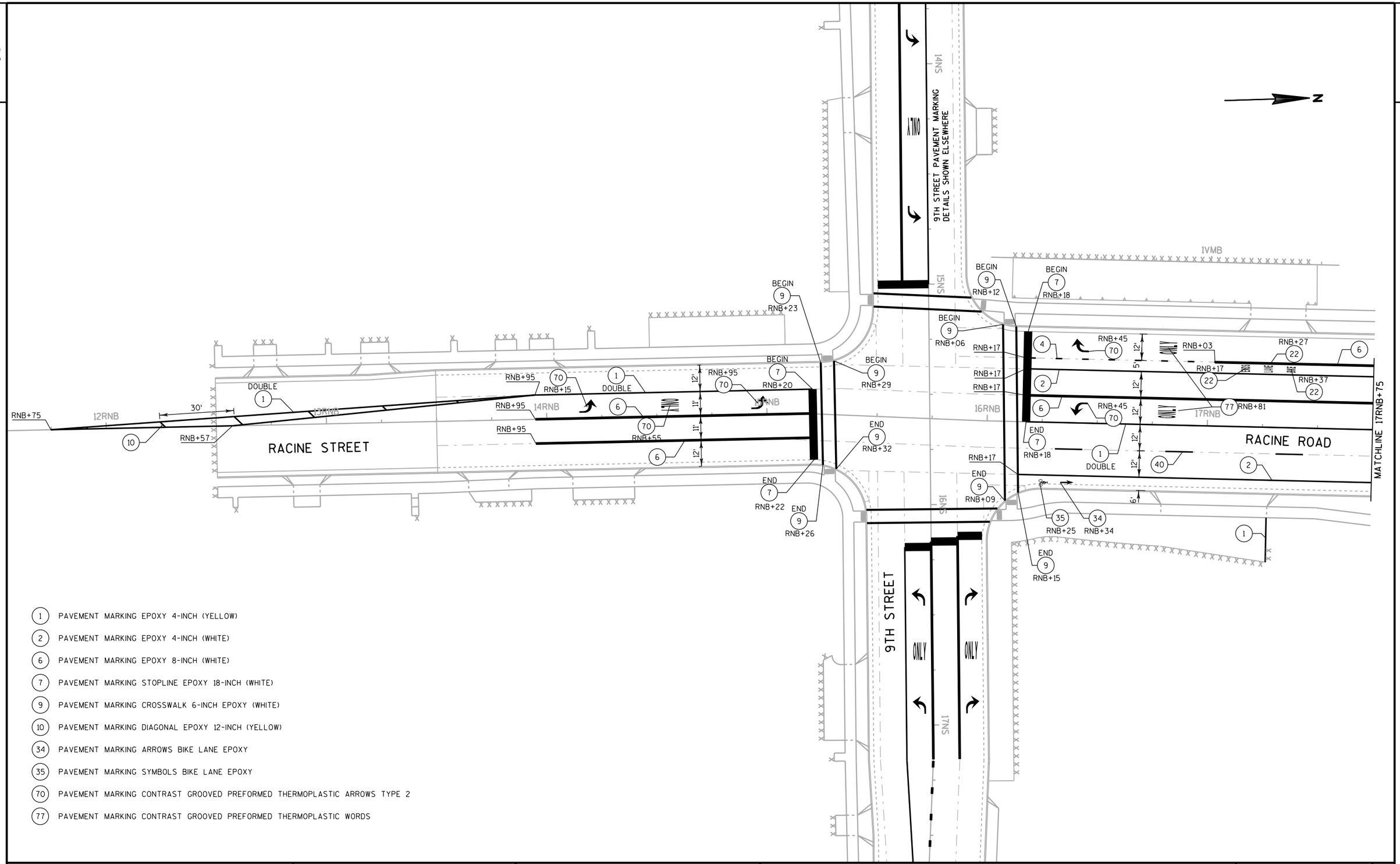
EQUIPMENT GROUNDING CONDUCTOR 10 AWG GREEN XLP	
FROM	TO
CB1	SB1
SB1	SB2
SB2	SB3
SB3	SB4
SB4	SB5
SB5	SB6
SB6	SB7
SB7	SB8
SB8	CB1

PULL BOX BONDING JUMPER 10 AWG GREEN XLP	
FROM	TO
CB1	PB1
SB2	PB2
SB2	PB3
SB3	PB4
SB4	PB5
SB4	PB6
SB5	PB7
SB6	PB8
SB6	PB9
SB7	PB10
SB8	PB11
SB8	PB12

Lighting UF 12 AWG W/GROUND	
FROM	TO
CB1	SB1
SB1	SB7
CB1	SB3
SB3	SB5

NOTES:
1. USE THE WHITE CONDUCTOR IN THE SIGNAL CABLE AS THE GROUNDED CONDUCTOR FOR ALL TRAFFIC SIGNAL INDICATIONS.
2. ENSURE THE GROUNDED CONDUCTOR IN THE FEEDER CABLE AND THE POLE CABLES ARE BOTH 12" LONGER THAN THE UNGROUNDED CONDUCTORS.
3. AT THE SIGNAL BASES, CONNECT ONE TERMINAL FROM THE PEDESTRIAN PUSH BUTTONS TO THE COLOR INDICATED IN THE CHART, CONNECT THE OTHER TERMINAL TO THE GROUNDED CONDUCTOR.

2

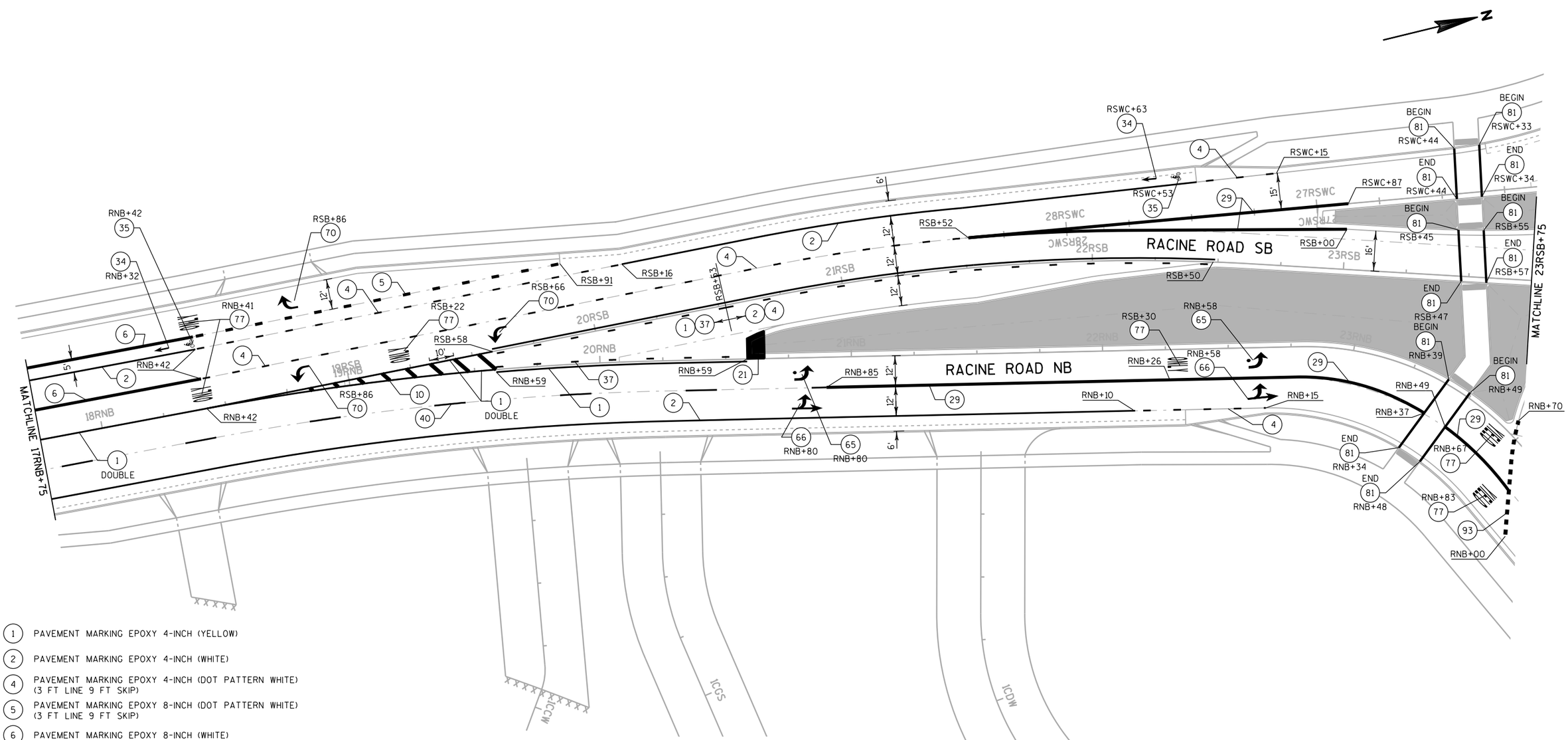


1. PAVEMENT MARKING EPOXY 4-INCH (YELLOW)
2. PAVEMENT MARKING EPOXY 4-INCH (WHITE)
6. PAVEMENT MARKING EPOXY 8-INCH (WHITE)
7. PAVEMENT MARKING STOPLINE EPOXY 18-INCH (WHITE)
9. PAVEMENT MARKING CROSSWALK 6-INCH EPOXY (WHITE)
10. PAVEMENT MARKING DIAGONAL EPOXY 12-INCH (YELLOW)
34. PAVEMENT MARKING ARROWS BIKE LANE EPOXY
35. PAVEMENT MARKING SYMBOLS BIKE LANE EPOXY
70. PAVEMENT MARKING CONTRAST GROOVED PREFORMED THERMOPLASTIC ARROWS TYPE 2
77. PAVEMENT MARKING CONTRAST GROOVED PREFORMED THERMOPLASTIC WORDS

PROJECT NO: 1517-75-76	HWY: USH 10	COUNTY: WINNEBAGO	PAVEMENT MARKING	SHEET	E

FILE NAME : \\milw00\ingrproj\56537\1517-75-76\t1\cds\024501_pm.dgn PLOT DATE : 2/1/2016 PLOT BY : grosemeyer PLOT NAME : PLOT SCALE : 40:1

2



1 PAVEMENT MARKING EPOXY 4-INCH (YELLOW)

2 PAVEMENT MARKING EPOXY 4-INCH (WHITE)

4 PAVEMENT MARKING EPOXY 4-INCH (DOT PATTERN WHITE) (3 FT LINE 9 FT SKIP)

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

6 PAVEMENT MARKING EPOXY 8-INCH (WHITE)

10 PAVEMENT MARKING DIAGONAL EPOXY 12-INCH (YELLOW)

21 PAVEMENT MARKING ISLAND NOSE EPOXY (YELLOW)

29 PAVEMENT MARKING GROOVED WET REFLECTIVE CONTRAST TAPE 8-INCH (WHITE)

34 PAVEMENT MARKING ARROWS BIKE LANE EPOXY

35 PAVEMENT MARKING SYMBOLS BIKE LANE EPOXY

37 PAVEMENT MARKING EPOXY 4-INCH (DOT PATTERN YELLOW) (3 FT LINE 9 FT SKIP)

39 PAVEMENT MARKING GROOVED WET REFLECTIVE CONTRAST TAPE 8-INCH (3 FT LINE 9 FT SKIP)

40 PAVEMENT MARKING GROOVED WET REFLECTIVE CONTRAST TAPE 4-INCH (DASHED WHITE) (12.5 FT LINE 37.5 FT SKIP)

65 PAVEMENT MARKING CONTRAST GROOVED PREFORMED THERMOPLASTIC ARROWS TYPE 2R

66 PAVEMENT MARKING CONTRAST GROOVED PREFORMED THERMOPLASTIC ARROWS TYPE 3R

70 PAVEMENT MARKING CONTRAST GROOVED PREFORMED THERMOPLASTIC ARROWS TYPE 2

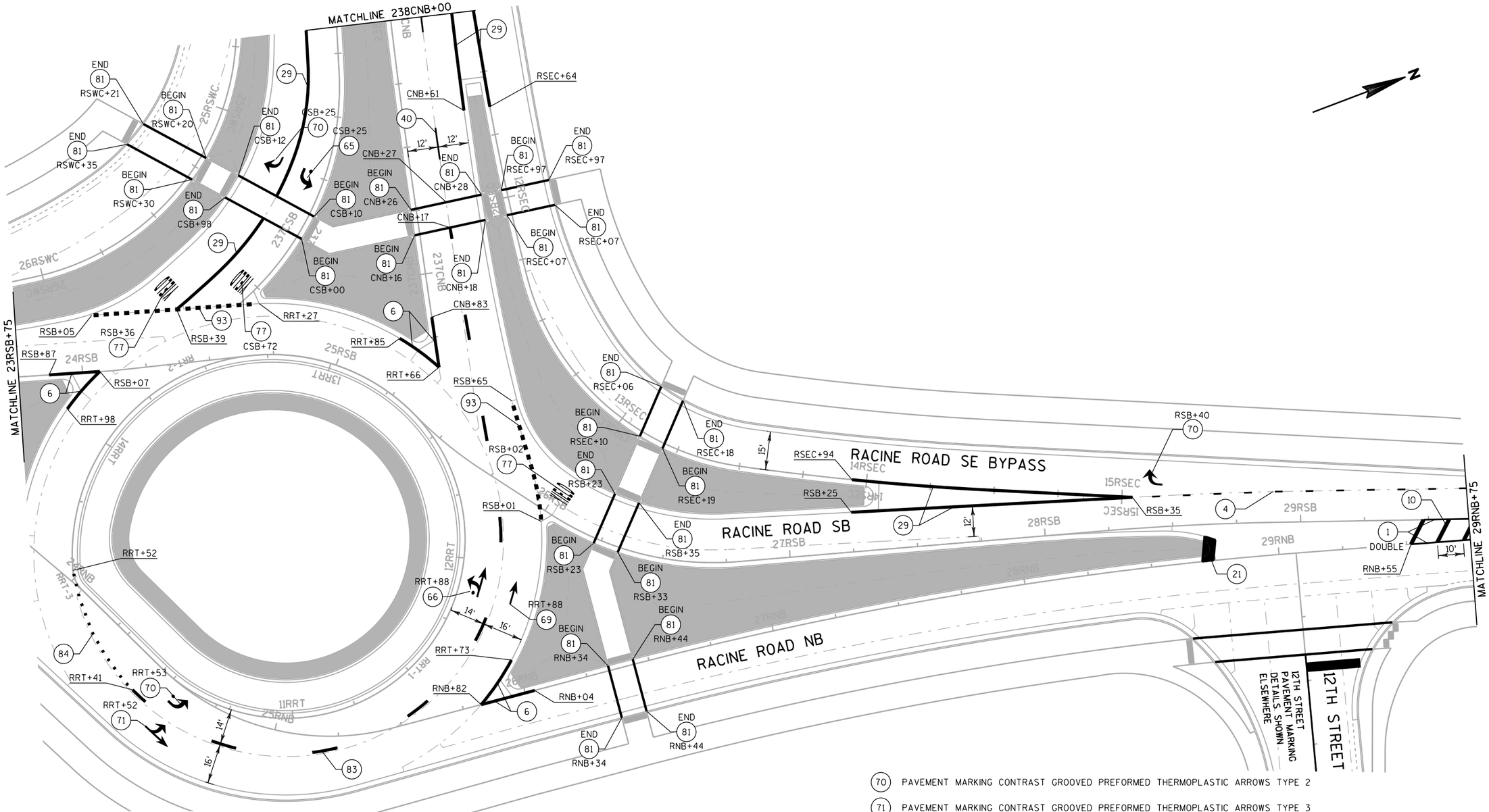
77 PAVEMENT MARKING CONTRAST GROOVED PREFORMED THERMOPLASTIC WORDS

81 PAVEMENT MARKING CONTRAST GROOVED PREFORMED THERMOPLASTIC CROSSWALK 6-INCH

93 PAVEMENT MARKING EPOXY 18-INCH (WHITE SKIP) (2 FT LINE 2 FT SKIP)

PROJECT NO: 1517-75-76	HWY: USH 10	COUNTY: WINNEBAGO	PAVEMENT MARKING	SHEET 120	E

2



(1) PAVEMENT MARKING EPOXY 4-INCH (YELLOW)

(4) PAVEMENT MARKING EPOXY 4-INCH (DOT PATTERN WHITE) (3 FT LINE 9 FT SKIP)

(6) PAVEMENT MARKING EPOXY 8-INCH (WHITE)

(10) PAVEMENT MARKING DIAGONAL EPOXY 12-INCH (YELLOW)

(21) PAVEMENT MARKING ISLAND NOSE EPOXY (YELLOW)

(29) PAVEMENT MARKING GROOVED WET REFLECTIVE CONTRAST TAPE 8-INCH (WHITE)

(40) PAVEMENT MARKING GROOVED WET REFLECTIVE CONTRAST TAPE 4-INCH (DASHED WHITE) (12.5 FT LINE 37.5 FT SKIP)

(65) PAVEMENT MARKING CONTRAST GROOVED PREFORMED THERMOPLASTIC ARROWS TYPE 2R

(66) PAVEMENT MARKING CONTRAST GROOVED PREFORMED THERMOPLASTIC ARROWS TYPE 3R

(69) PAVEMENT MARKING CONTRAST GROOVED PREFORMED THERMOPLASTIC ARROWS TYPE 1

(70) PAVEMENT MARKING CONTRAST GROOVED PREFORMED THERMOPLASTIC ARROWS TYPE 2

(71) PAVEMENT MARKING CONTRAST GROOVED PREFORMED THERMOPLASTIC ARROWS TYPE 3

(77) PAVEMENT MARKING CONTRAST GROOVED PREFORMED THERMOPLASTIC WORDS

(81) PAVEMENT MARKING CONTRAST GROOVED PREFORMED THERMOPLASTIC CROSSWALK 6-INCH

(83) PAVEMENT MARKING EPOXY 8-INCH (WHITE) (6 FT LINE 3FT SKIP)

(84) PAVEMENT MARKING EPOXY 8-INCH (WHITE) (1 FT LINE 3FT SKIP)

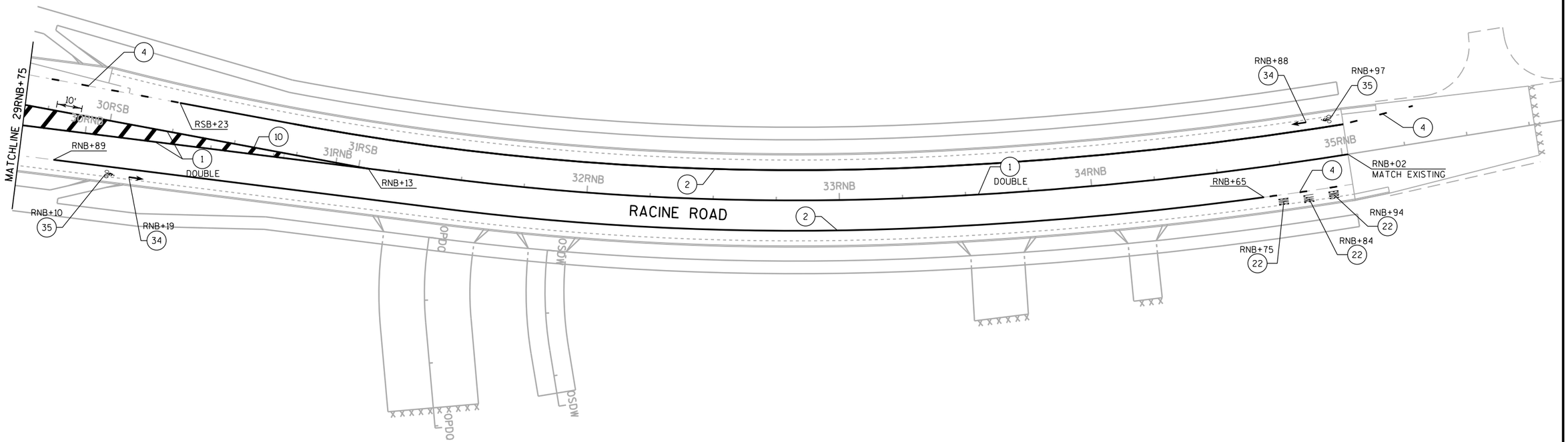
(93) PAVEMENT MARKING EPOXY 18-INCH (WHITE SKIP) (2 FT LINE 2 FT SKIP)

PROJECT NO: 1517-75-76	HWY: USH 10	COUNTY: WINNEBAGO	PAVEMENT MARKING	SHEET	E

FILE NAME : \\milw00\ingrproj\56537\1517-75-76\t1\cds\024503_pm.dgn PLOT DATE : 2/1/2016 PLOT BY : arosemeyer PLOT NAME : PLOT SCALE : 40:1

WISDOT/CADDS SHEET 42

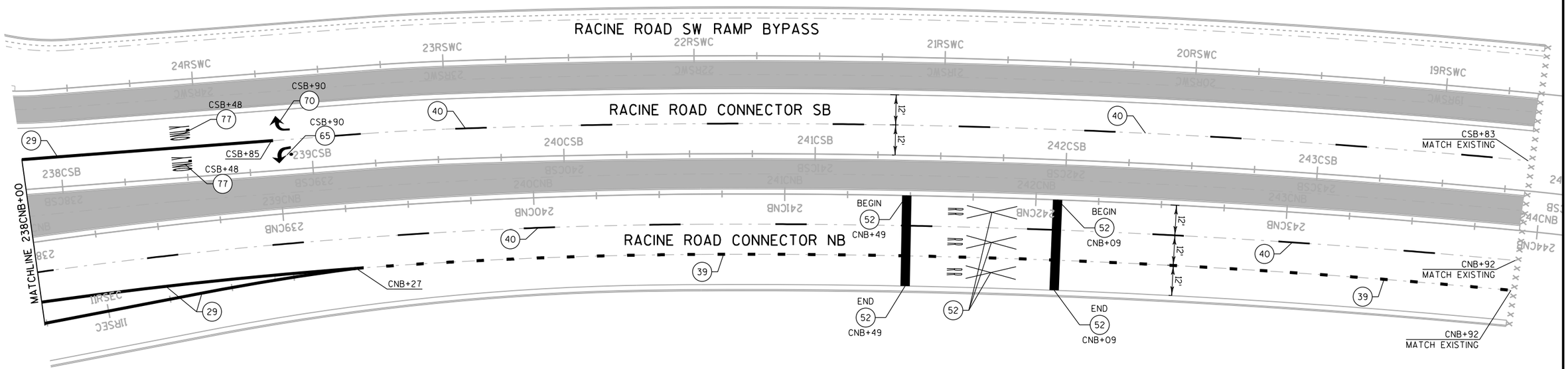
2



1. PAVEMENT MARKING EPOXY 4-INCH (YELLOW)
2. PAVEMENT MARKING EPOXY 4-INCH (WHITE)
4. PAVEMENT MARKING EPOXY 4-INCH (DOT PATTERN WHITE) (3 FT LINE 9 FT SKIP)
10. PAVEMENT MARKING DIAGONAL EPOXY 12-INCH (YELLOW)
22. PAVEMENT MARKING WORDS BIKE LANE EPOXY
34. PAVEMENT MARKING ARROWS BIKE LANE EPOXY
35. PAVEMENT MARKING SYMBOLS BIKE LANE EPOXY

PROJECT NO: 1517-75-76	HWY: USH 10	COUNTY: WINNEBAGO	PAVEMENT MARKING	SHEET 122	E

2



(29) PAVEMENT MARKING GROOVED WET REFLECTIVE CONTRAST TAPE 8-INCH (WHITE)

(39) PAVEMENT MARKING GROOVED WET REFLECTIVE CONTRAST TAPE 8-INCH (3 FT LINE 9 FT SKIP)

(40) PAVEMENT MARKING GROOVED WET REFLECTIVE CONTRAST TAPE 4-INCH (DASHED WHITE) (12.5 FT LINE 37.5 FT SKIP)

(52) PAVEMENT MARKING RAILROAD CROSSINGS EPOXY

(65) PAVEMENT MARKING CONTRAST GROOVED PREFORMED THERMOPLASTIC ARROWS TYPE 2R

(70) PAVEMENT MARKING CONTRAST GROOVED PREFORMED THERMOPLASTIC ARROWS TYPE 2

(77) PAVEMENT MARKING CONTRAST GROOVED PREFORMED THERMOPLASTIC WORDS

PROJECT NO: 1517-75-76	HWY: USH 10	COUNTY: WINNEBAGO	PAVEMENT MARKING	SHEET 123	E

2

N

RACINE ROAD

RACINE ROAD PAVEMENT MARKING DETAILS SHOWN ELSEWHERE

ONLY

BIKE LANE

1VMB

17RNB

16RNB

NS+31 MATCH EXISTING

NS+84 (70) 12' 14NS

NS+28 (77)

1 DOUBLE

NS+64 (70)

NS+00 (7) 15NS

NS+64

NS+64

NS+00

12'

11'

6

END (9) NS+06

END (9) NS+13

BEGIN (9) NS+10

NS+00 (7)

BEGIN (9) NS+04

END (9) NS+08

END (9) NS+02

NS+40 (70)

NS+65 (77)

NS+90 (70)

NS+14

NS+16

NS+17

NS+16

6

12'

11'

16NS

17NS

7

NS+19

NS+40 (70)

NS+65 (77)

NS+90 (70)

NS+15

5

18NS

NS+36

NS+51

1 DOUBLE

9TH STREET

8'

12'

19NS

NS+20 MATCH EXISTING

3'

BEGIN (9) NS+08

BEGIN (9) NS+02

RACINE STREET PAVEMENT MARKING DETAILS SHOWN ELSEWHERE

15RNB

RACINE STREET

ONLY

14RNB

(1) PAVEMENT MARKING EPOXY 4-INCH (YELLOW)

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

(6) PAVEMENT MARKING EPOXY 8-INCH (WHITE)

(7) PAVEMENT MARKING STOPLINE EPOXY 18-INCH (WHITE)

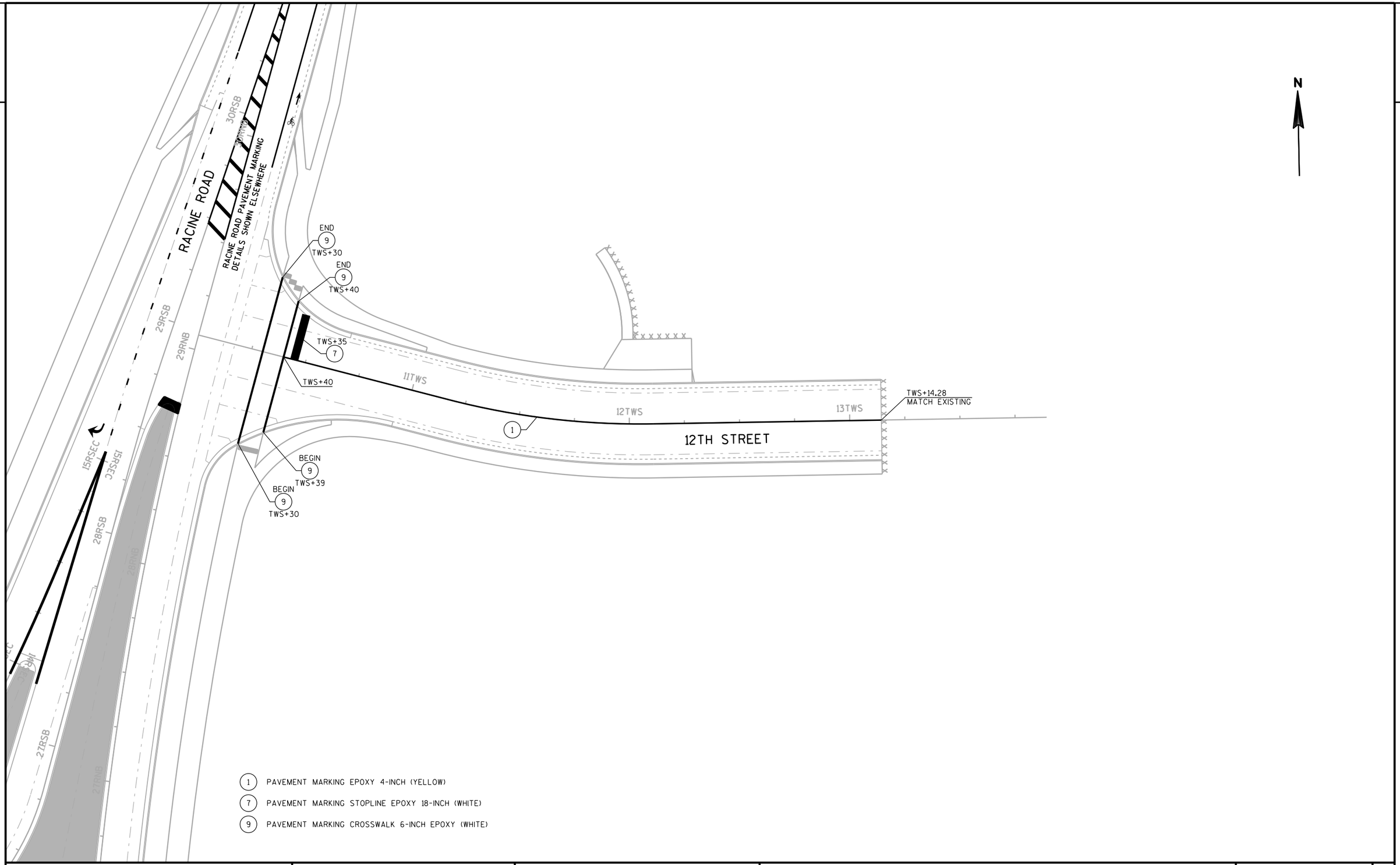
(9) PAVEMENT MARKING CROSSWALK 6-INCH EPOXY (WHITE)

(70) PAVEMENT MARKING CONTRAST GROOVED PREFORMED THERMOPLASTIC ARROWS TYPE 2

(77) PAVEMENT MARKING CONTRAST GROOVED PREFORMED THERMOPLASTIC WORDS

PROJECT NO: 1517-75-76	HWY: USH 10	COUNTY: WINNEBAGO	PAVEMENT MARKING	SHEET 124	E

2



1 PAVEMENT MARKING EPOXY 4-INCH (YELLOW)

7 PAVEMENT MARKING STOPLINE EPOXY 18-INCH (WHITE)

9 PAVEMENT MARKING CROSSWALK 6-INCH EPOXY (WHITE)

PROJECT NO: 1517-75-76	HWY: USH 10	COUNTY: WINNEBAGO	PAVEMENT MARKING	SHEET 125	E

GENERAL NOTES FOR TRAFFIC CONTROL

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 I 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 OFF OF.

10) 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.

TRAFFIC CONTROL LEGEND

- TRAFFIC CONTROL BARRICADE TYPE II WITH LIGHTS TYPE A
- TRAFFIC CONTROL BARRICADE TYPE III WITH LIGHTS TYPE A
- TRAFFIC CONTROL BARRICADE TYPE III WITH LIGHTS TYPE A AND ATTACHED SIGN
- TRAFFIC CONTROL DRUM
- TRAFFIC CONTROL DRUM WITH LIGHT TYPE C
- TRAFFIC CONTROL ARROW BOARD
- TRAFFIC CONTROL SIGN(S) ON PERMANENT SUPPORT
- TRAFFIC CONTROL SIGN(S) ON TEMPORARY SUPPORT
- PCMS TRAFFIC CONTROL SIGNS PORTABLE CHANGABLE MESSAGE
- TRAFFIC FLOW ARROW
- WORK ZONE THIS STAGE
- 5-INCH HMA PAVEMENT TYPE E-10 OVER 12-INCH BASE AGGREGATE DENSE 1 1/4-INCH OVER 12-INCH BREAKER RUN
- TEMPORARY RAISED PAVEMENT MARKERS
- TRAFFIC CONTROL FLEXIBLE TUBULAR MARKER POSTS/BASES
- CONCRETE BARRIER TEMPORARY PRECAST FROM PREVIOUS STAGE
- CONCRETE BARRIER TEMPORARY PRECAST
- CC CRASH CUSHIONS TEMPORARY
- CC CRASH CUSHIONS TEMPORARY FROM PREVIOUS STAGE

TEMPORARY PAVEMENT MARKING LEGEND

(64) TEMPORARY PAVEMENT MARKING REMOVABLE TAPE 6-INCH

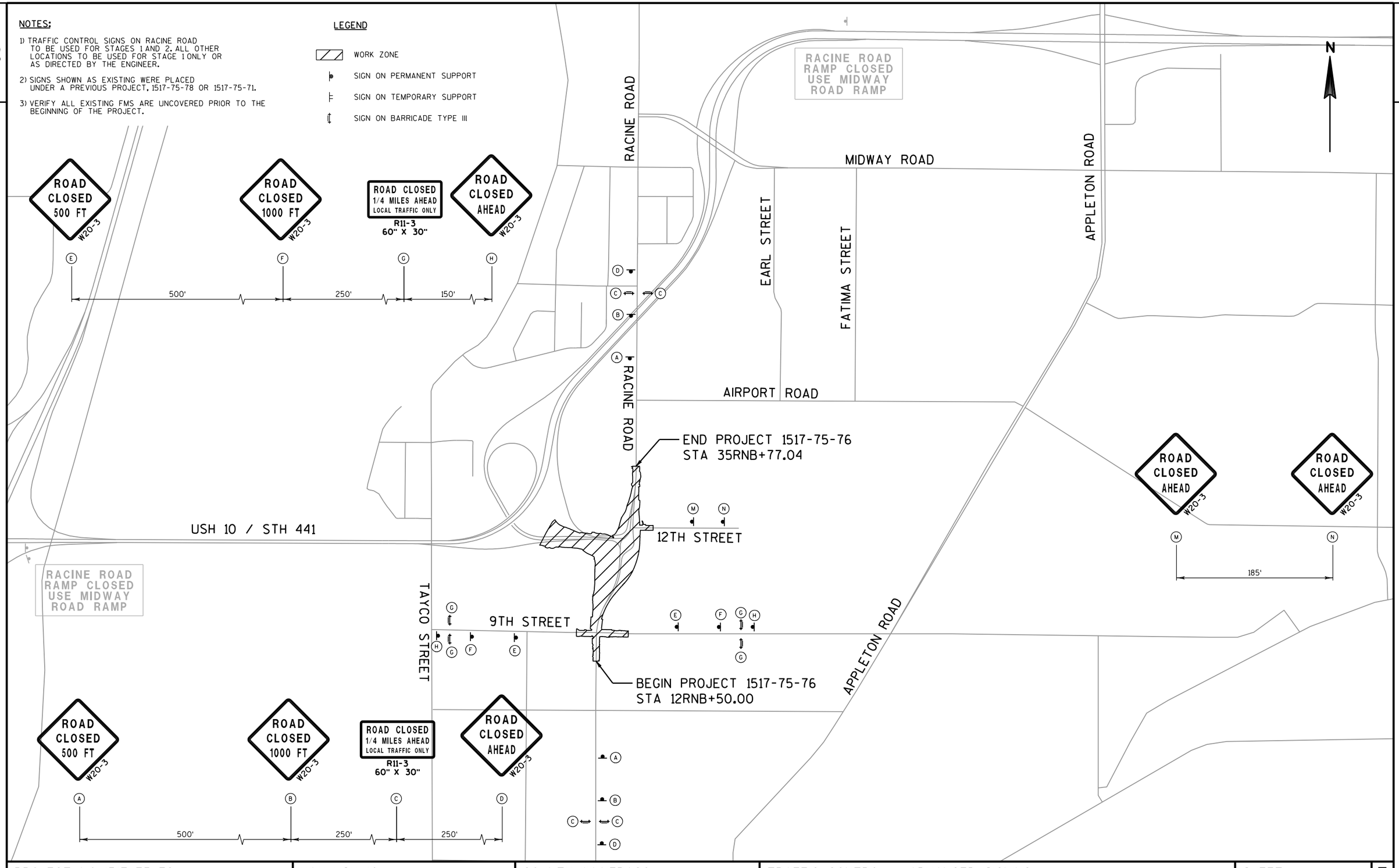
2

NOTES:

1) TRAFFIC CONTROL SIGNS ON RACINE ROAD TO BE USED FOR STAGES 1 AND 2. ALL OTHER LOCATIONS TO BE USED FOR STAGE 1 ONLY OR AS DIRECTED BY THE ENGINEER.
2) SIGNS SHOWN AS EXISTING WERE PLACED UNDER A PREVIOUS PROJECT, 1517-75-78 OR 1517-75-71.
3) VERIFY ALL EXISTING FMS ARE UNCOVERED PRIOR TO THE BEGINNING OF THE PROJECT.

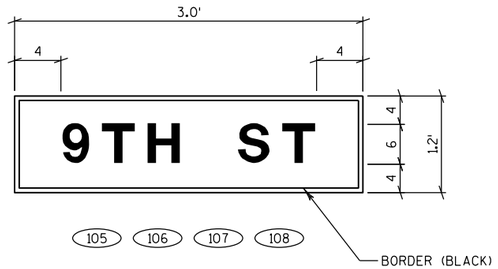
LEGEND

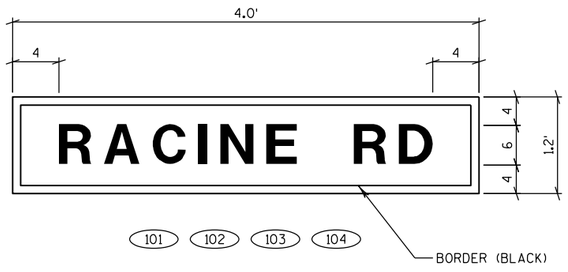
- WORK ZONE
- SIGN ON PERMANENT SUPPORT
- SIGN ON TEMPORARY SUPPORT
- SIGN ON BARRICADE TYPE III



PROJECT NO: 1517-75-76	HWY: USH 10	COUNTY: WINNEBAGO	TRAFFIC CONTROL - ADVANCED SIGNING	SHEET 127	E

2





NOTES

1) AFTER SIGNS HAVE BEEN LOCATED IN THE FIELD, BUT BEFORE INSTALLATION, THE SIGNING AND MARKING SUPERVISOR SHALL VERIFY EACH SIGN LOCATION.

2) ALL SIGNS TO BE MOUNTED ON WOODEN POSTS SUPPORTS (4" X 6") MAY BE USED FOR SIGNS ON SURFACE STREETS. SIGNS WHERE NO POSTS ARE SHOWN TO BE MOUNTED ON EXISTING SIGNS. FOR SIGNS MOUNTED ON POSTS, USE POSTS FROM FHWA LIST OF ACCEPTED BREAKAWAY SUPPORTS.

3) POSTS SHALL MEET THE BREAKAWAY REQUIREMENTS OF SECTION 643.2.9.1 OF THE STANDARD SPECIFICATIONS AND SIGN PLATE A4-11.

4) SIGNS ON THIS SHEET TO BE PAID UNDER THE ITEM "TRAFFIC CONTROL SIGNS FIXED MESSAGE".

5) SIGNS SHALL BE BLACK NON-REFLECTIVE MESSAGE ON ORANGE REFLECTIVE BACKGROUND PER STANDARD SPECIFICATIONS AND SPECIAL PROVISIONS UNLESS OTHERWISE NOTED.

6) ALL SIGNS SHALL HAVE CAPITAL LETTERS AND NUMERALS: 12" CAPS SHALL BE SERIES "D", 6" CAPS SHALL BE SERIES "C".

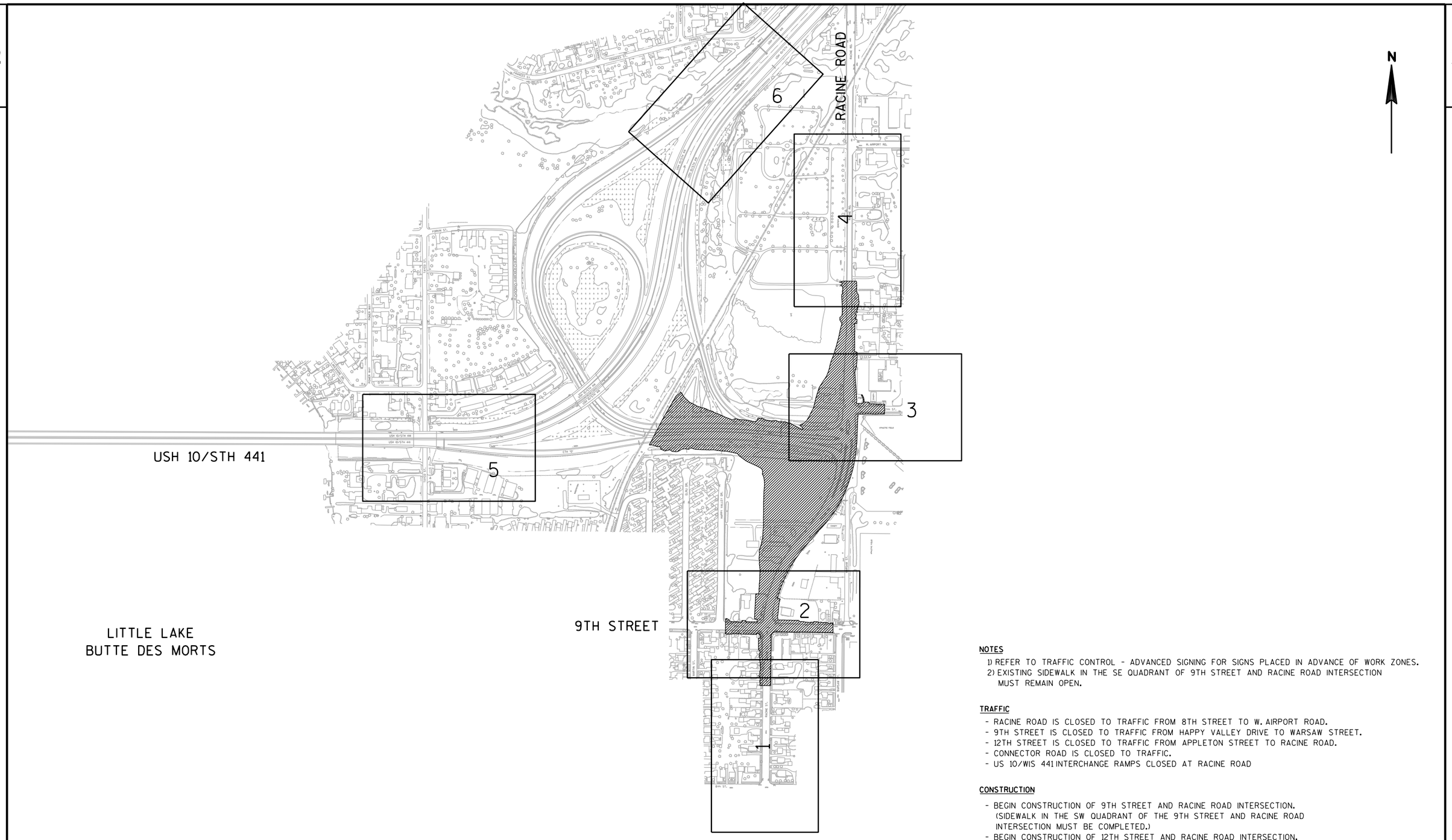
7) CONTRACTOR SHALL SUBMIT SHOP DRAWINGS TO ENGINEER FOR REVIEW PRIOR TO MANUFACTURING.

8) SIGN BASE MATERIAL SHALL BE ACCORDING TO SECTION 637.2.1.2 AND 643.2.9.3.

9) DIMENSIONS ARE IN INCHES UNLESS OTHERWISE NOTED.

(XXX) = FIXED MESSAGE SIGN NUMBER

2



NOTES

1) REFER TO TRAFFIC CONTROL - ADVANCED SIGNING FOR SIGNS PLACED IN ADVANCE OF WORK ZONES.
2) EXISTING SIDEWALK IN THE SE QUADRANT OF 9TH STREET AND RACINE ROAD INTERSECTION MUST REMAIN OPEN.

TRAFFIC

- RACINE ROAD IS CLOSED TO TRAFFIC FROM 8TH STREET TO W. AIRPORT ROAD.
- 9TH STREET IS CLOSED TO TRAFFIC FROM HAPPY VALLEY DRIVE TO WARSAW STREET.
- 12TH STREET IS CLOSED TO TRAFFIC FROM APPLETON STREET TO RACINE ROAD.
- CONNECTOR ROAD IS CLOSED TO TRAFFIC.
- US 10/WIS 441 INTERCHANGE RAMPS CLOSED AT RACINE ROAD

CONSTRUCTION

- BEGIN CONSTRUCTION OF 9TH STREET AND RACINE ROAD INTERSECTION. (SIDEWALK IN THE SW QUADRANT OF THE 9TH STREET AND RACINE ROAD INTERSECTION MUST BE COMPLETED.)
- BEGIN CONSTRUCTION OF 12TH STREET AND RACINE ROAD INTERSECTION.
- BEGIN CONSTRUCTION ON RACINE ROAD.
- BEGIN CONSTRUCTION ON RACINE ROAD ROUNDABOUT.
- BEGIN CONSTRUCTION ON CONNECTOR ROAD.

PROJECT NO: 1517-75-76	HWY: USH 10	COUNTY: WINNEBAGO	TRAFFIC CONTROL STAGE 1A KEYMAP OVERVIEW	SHEET 129	E

2

N

8th ST.

MH

8TH STREET

200'

ROAD CLOSED AHEAD
W20-3
RACINE RD
101

SIDEWALK CLOSED AHEAD
CROSS HERE
R9-11
24" X 12"

SIDEWALK CLOSED
R9-9
24" X 12"

ROAD CLOSED TO THRU TRAFFIC
R11-4
60" X 30"

50'

RACINE STREET

10RNB

11RNB

12RNB

13RNB

RACINE ST.

ROAD CLOSED
R11-2
48" X 30"

PROTECT SIDEWALK WITH SAFETY FENCE
WHEN ADJACENT TO WORKZONE

POOL

INL

MH

200'

ROAD CLOSED AHEAD
W20-3
RACINE RD
102

PROJECT NO: 1517-75-76	HWY: USH 10	COUNTY: WINNEBAGO	STAGE 1A CONSTRUCTION	SHEET 130	E

2

ROAD CLOSED AHEAD
W20-3
9TH ST
105

HAPPY VALLEY DRIVE

200'

ROAD CLOSED TO THRU TRAFFIC
R11-4
60" X 30"

50'

ROAD CLOSED
R11-2
48" X 30"

RACINE ROAD

9TH STREET

SIDEWALK CLOSED
R9-9
24" X 12"

SIDEWALK CLOSED
R9-9
24" X 12"

SIDEWALK CLOSED
R9-9
24" X 12"

PROTECT SIDEWALK WITH SAFETY FENCE WHEN ADJACENT TO WORKZONE

MARTIN STREET

200'

MARTIN ST.

ROAD CLOSED AHEAD
W20-3
9TH ST
106

RACINE STREET

ROAD CLOSED AHEAD
W20-3
9TH ST
107

ROAD CLOSED
R11-2
48" X 30"

WARSAW STREET

200'

ROAD CLOSED AHEAD
W20-3
9TH ST
108

N

2

PROJECT NO: 1517-75-76	HWY: USH 10	COUNTY: WINNEBAGO	STAGE 1A CONSTRUCTION	SHEET 131 E

FILE NAME : \\milw00\ingrproj\56537\1517-75-76\t1\cds\026102_s1A.dgn PLOT DATE : 1/18/2016 PLOT BY : arosemeyer PLOT NAME : PLOT SCALE : 60:1

WISDOT/CADDS SHEET 42

2

2

N

CEMETERY

ROAD CLOSED
R11-2
48" X 30"

SIGN

MH

W

35RNB 36RNB 37RNB 38RNB 39RNB 40RNB 41RNB

RACINE ROAD

RACINE RD.

50'

ROAD CLOSED
TO
THRU TRAFFIC
R11-4
60" X 30"

INL

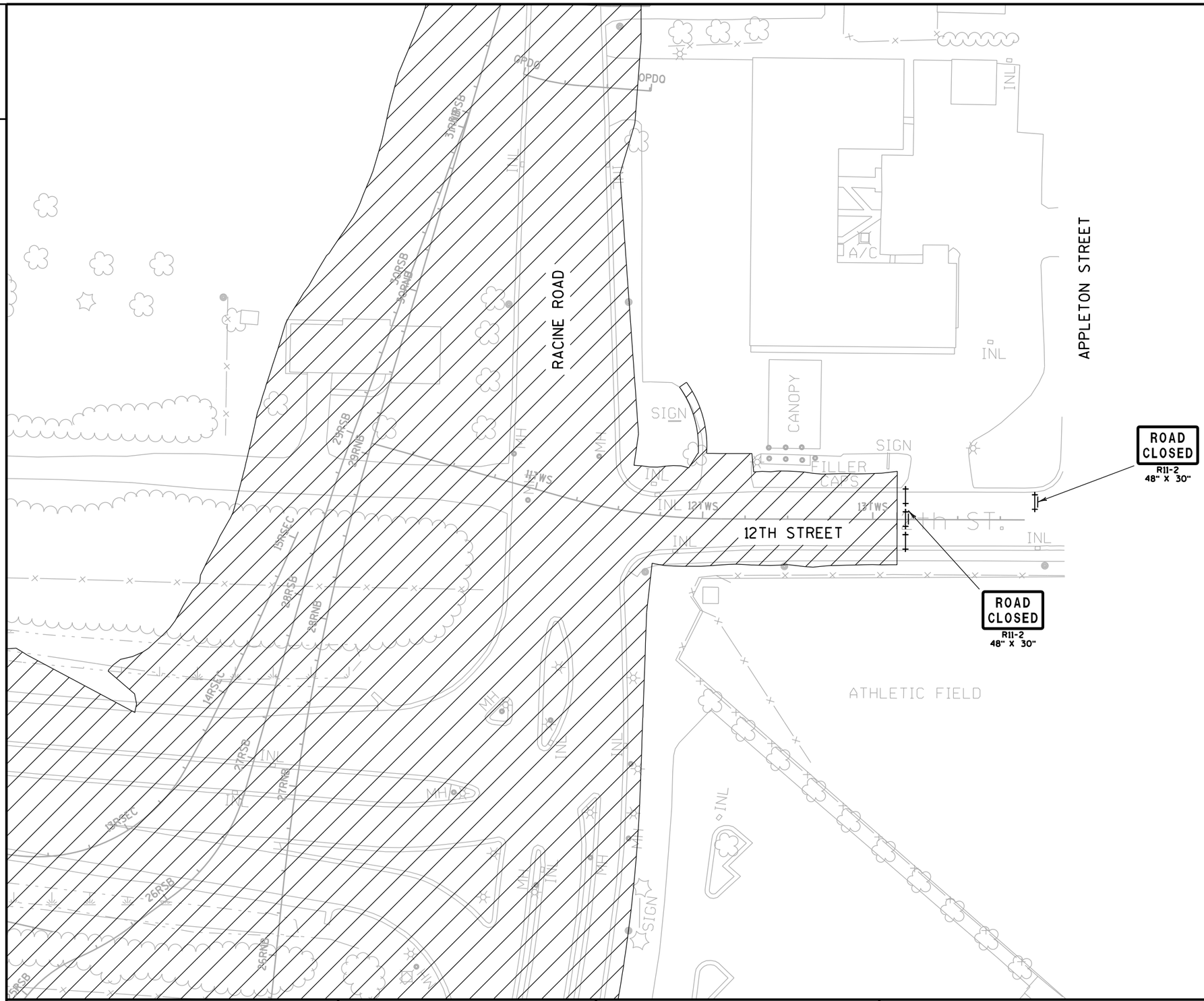
AIRPORT ROAD
W. AIRPORT RD.

PROJECT NO: 1517-75-76	HWY: USH 10	COUNTY: WINNEBAGO	STAGE 1A CONSTRUCTION	SHEET 132	E

FILE NAME : \\milw00\ingrproj\56537\1517-75-76\t1\cds\026103_s1A.dgn PLOT DATE : 1/18/2016 PLOT BY : grosemeyer PLOT NAME : PLOT SCALE : 60:1

WISDOT/CADDS SHEET 42

2



PROJECT NO: 1517-75-76	HWY: USH 10	COUNTY: WINNEBAGO	STAGE 1A CONSTRUCTION	SHEET	E

FILE NAME : \\milw00\ingrproj\56537\1517-75-76\t1\cds\026104_s1A.dgn PLOT DATE : 1/18/2016 PLOT BY : arosemeyer PLOT NAME : PLOT SCALE : 60:1

2

2

N

TAYCO STREET

SIGN

INL

W

USH 10/STH 441

USH 10/STH 441 WB

USH 10/STH 441 EB

SIGN

INL

W

INL

INL

W

USH 10/STH 441

W

REFER TO WISDOT STANDARD DETAIL DRAWING "EXIT RAMP CLOSURE"

SIGN

USH 10 EB OFFRAMP TO RACINE RD

W

MH

MH

TAYCO ST.

W

W

W

INL

INL

PROJECT NO: 1517-75-76	HWY: USH 10	COUNTY: WINNEBAGO	STAGE 1A CONSTRUCTION	SHEET 134	E

FILE NAME : \\milw00\ingrproj\56537\1517-75-76\t1\cds\026105_s1A.dgn PLOT DATE : 1/18/2016 PLOT BY : arosemeyer PLOT NAME : PLOT SCALE : 60:1

WISDOT/CADDS SHEET 42

2

2

N

ANCES ST.

INL

MH

INL

MH

W

SIGN

USH 10 WB OFFRAMP TO RACINE RD

REFER TO WISDOT STANDARD DETAIL DRAWING "EXIT RAMP CLOSURE"

SIGN

USH 10/STH 441

USH 10/STH 441 WB

INL SIGN

USH 10/STH 441

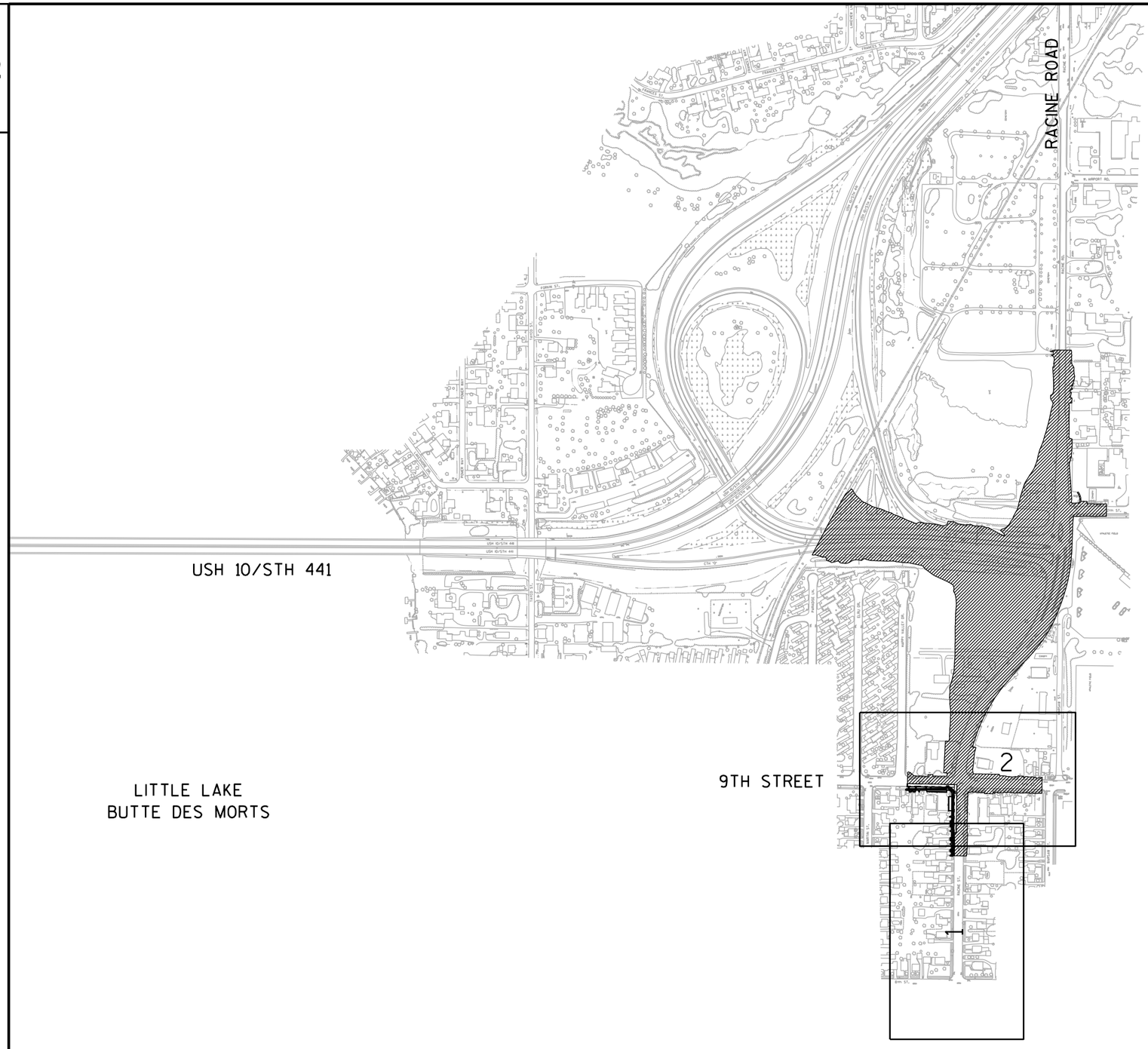
USH 10/STH 441 EB

MH

PROJECT NO: 1517-75-76	HWY: USH 10	COUNTY: WINNEBAGO	STAGE 1A CONSTRUCTION	SHEET 135	E

FILE NAME : \\milw00\ingrproj\56537\1517-75-76\t1\cds\026106_s1A.dgn PLOT DATE : 1/18/2016 PLOT BY : arosemeyer PLOT NAME : PLOT SCALE : 60:1

WISDOT/CADDS SHEET 42



NOTES

1) REFER TO TRAFFIC CONTROL - ADVANCED SIGNING FOR SIGNS PLACED IN ADVANCE OF WORK ZONES.
2) USH 10/STH 441 EXIT RAMP CLOSURES REMAIN THE SAME AS NOTED IN STAGE 1A
3) NEW SIDEWALK CONSTRUCTED IN STAGE 1A AT 9TH/RACINE ST SOUTHWEST QUADRANT IS OPEN TO PEDESTRIANS

TRAFFIC

- RACINE ROAD IS CLOSED TO TRAFFIC FROM 8TH STREET TO W. AIRPORT ROAD.
- 9TH STREET IS CLOSED TO TRAFFIC FROM HAPPY VALLEY DRIVE TO WARSAW STREET.
- 12TH STREET IS CLOSED TO TRAFFIC FROM APPLETON STREET TO RACINE ROAD.
- CONNECTOR ROAD IS CLOSED TO TRAFFIC.
- US 10/STH 441 INTERCHANGE RAMPS CLOSED AT RACINE ROAD

CONSTRUCTION

- CONTINUE AND COMPLETE CONSTRUCTION OF 9TH STREET AND RACINE ROAD INTERSECTION.
- CONTINUE AND COMPLETE CONSTRUCTION OF 12TH STREET AND RACINE ROAD INTERSECTION.
- CONTINUE CONSTRUCTION ON RACINE ROAD.
- CONTINUE CONSTRUCTION ON RACINE ROAD ROUNDABOUT.
- CONTINUE CONSTRUCTION ON CONNECTOR ROAD.

PROJECT NO: 1517-75-76	HWY: USH 10	COUNTY: WINNEBAGO	TRAFFIC CONTROL STAGE 1B KEYMAP OVERVIEW	SHEET 136	E

2

N

8th ST.

MH

8TH STREET

200'

ROAD CLOSED AHEAD
W20-3
RACINE RD
101

POOL

INL

POOL

PROTECT SIDEWALK WITH SAFETY FENCE WHEN ADJACENT TO WORKZONE

ROAD CLOSED TO THRU TRAFFIC
R11-4
60" X 30"

50'

RACINE STREET

10RNB

11RNB

12RNB

RACINE ST.

13RNB

MH

INL

ROAD CLOSED
R11-2
48" X 30"

SIDEWALK CLOSED
R9-9
24" X 12"

SIDEWALK CLOSED AHEAD
CROSS HERE
R9-11
24" X 12"

200'

POOL

ROAD CLOSED AHEAD
W20-3
RACINE RD
102

PROJECT NO: 1517-75-76	HWY: USH 10	COUNTY: WINNEBAGO	STAGE 1B CONSTRUCTION	SHEET 137	E

2

ROAD CLOSED AHEAD W20-3
9TH ST
105

HAPPY VALLEY DRIVE
200'

ROAD CLOSED TO THRU TRAFFIC
R11-4
60" X 30"

50'

ROAD CLOSED
R11-2
48" X 30"

RACINE ROAD

9TH STREET

SIDEWALK CLOSED
R9-9
24" X 12"

ROAD CLOSED AHEAD W20-3
9TH ST
107

WARSAW STREET
200'

ROAD CLOSED
R11-2
48" X 30"

SIDEWALK CLOSED
R9-9
24" X 12"

MARTIN STREET
200'

ROAD CLOSED AHEAD W20-3
9TH ST
106

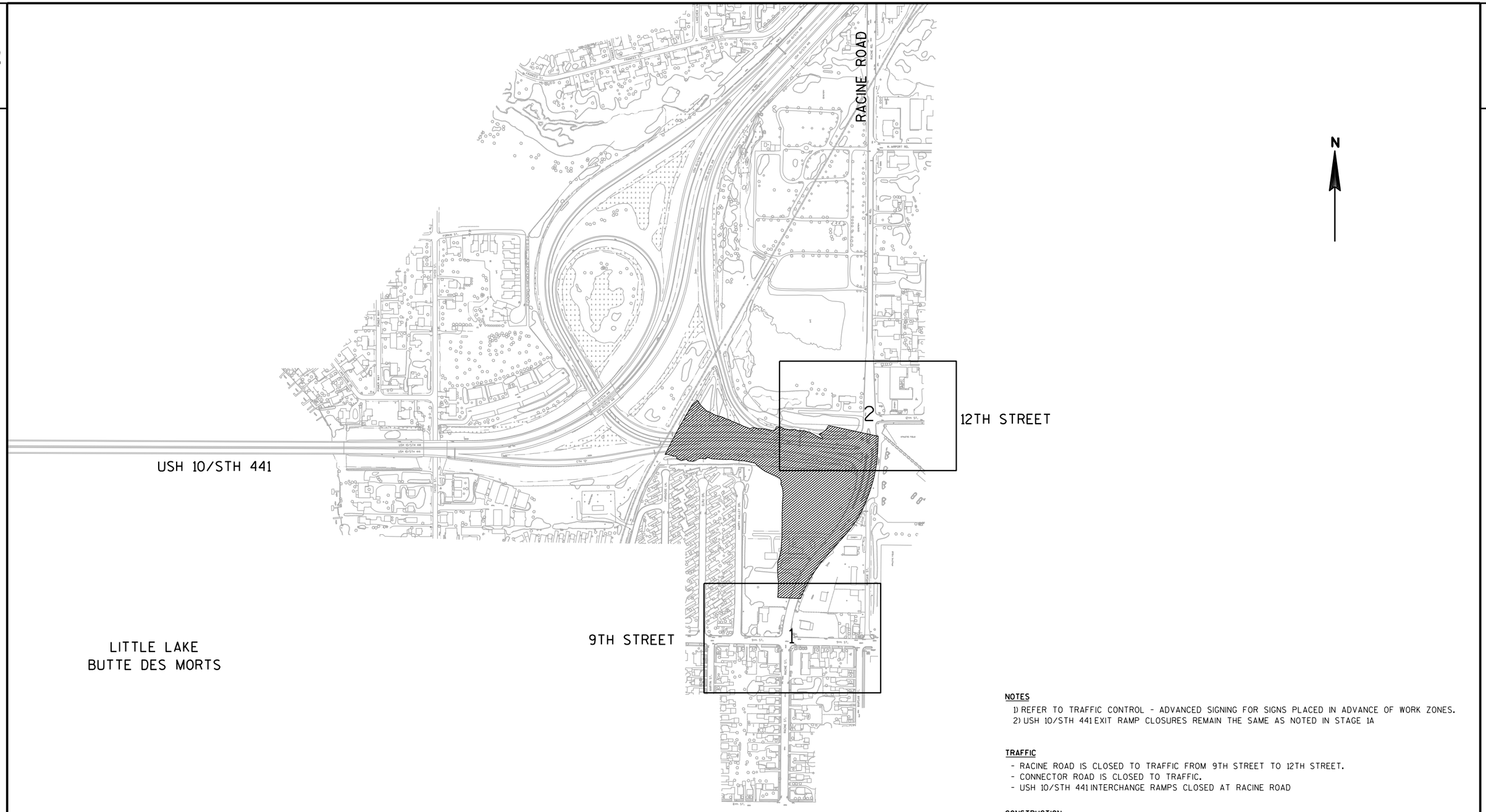
RACINE STREET

WARSAW STREET
200'

ROAD CLOSED AHEAD W20-3
9TH ST
108

N

PROJECT NO: 1517-75-76	HWY: USH 10	COUNTY: WINNEBAGO	STAGE 1B CONSTRUCTION	SHEET 138	E



NOTES

1) REFER TO TRAFFIC CONTROL - ADVANCED SIGNING FOR SIGNS PLACED IN ADVANCE OF WORK ZONES.
2) USH 10/STH 441 EXIT RAMP CLOSURES REMAIN THE SAME AS NOTED IN STAGE 1A

TRAFFIC

- RACINE ROAD IS CLOSED TO TRAFFIC FROM 9TH STREET TO 12TH STREET.
- CONNECTOR ROAD IS CLOSED TO TRAFFIC.
- USH 10/STH 441 INTERCHANGE RAMPS CLOSED AT RACINE ROAD

CONSTRUCTION

- CONTINUE AND COMPLETE CONSTRUCTION ON RACINE ROAD.
- CONTINUE AND COMPLETE CONSTRUCTION ON RACINE ROAD ROUNDABOUT.
- CONTINUE AND COMPLETE CONSTRUCTION ON CONNECTOR ROAD.

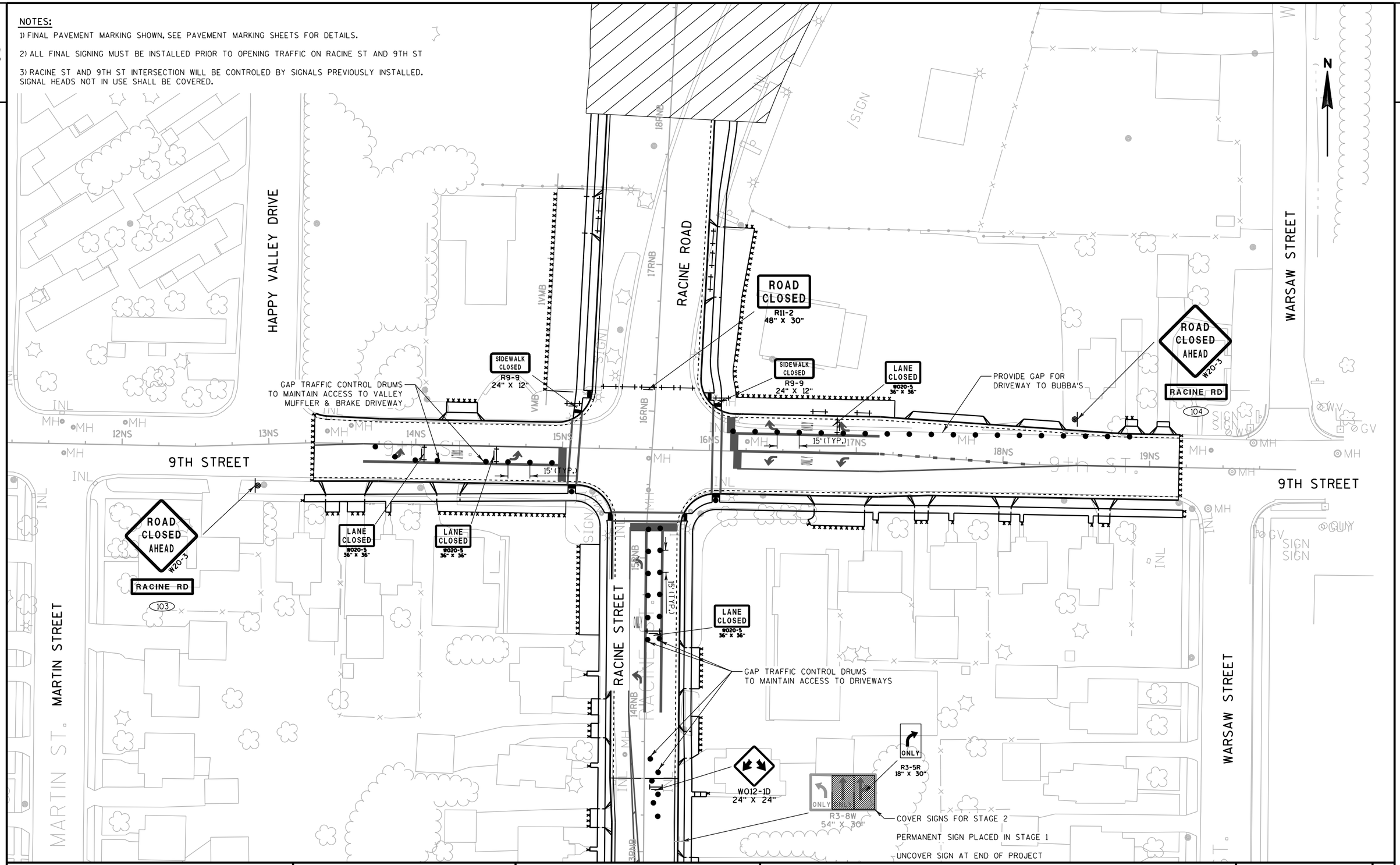
PROJECT NO: 1517-75-76	HWY: USH 10	COUNTY: WINNEBAGO	TRAFFIC CONTROL STAGE 2 KEYMAP OVERVIEW	SHEET 139	E

NOTES:

1) FINAL PAVEMENT MARKING SHOWN. SEE PAVEMENT MARKING SHEETS FOR DETAILS.

2) ALL FINAL SIGNING MUST BE INSTALLED PRIOR TO OPENING TRAFFIC ON RACINE ST AND 9TH ST

3) RACINE ST AND 9TH ST INTERSECTION WILL BE CONTROLED BY SIGNALS PREVIOUSLY INSTALLED. SIGNAL HEADS NOT IN USE SHALL BE COVERED.

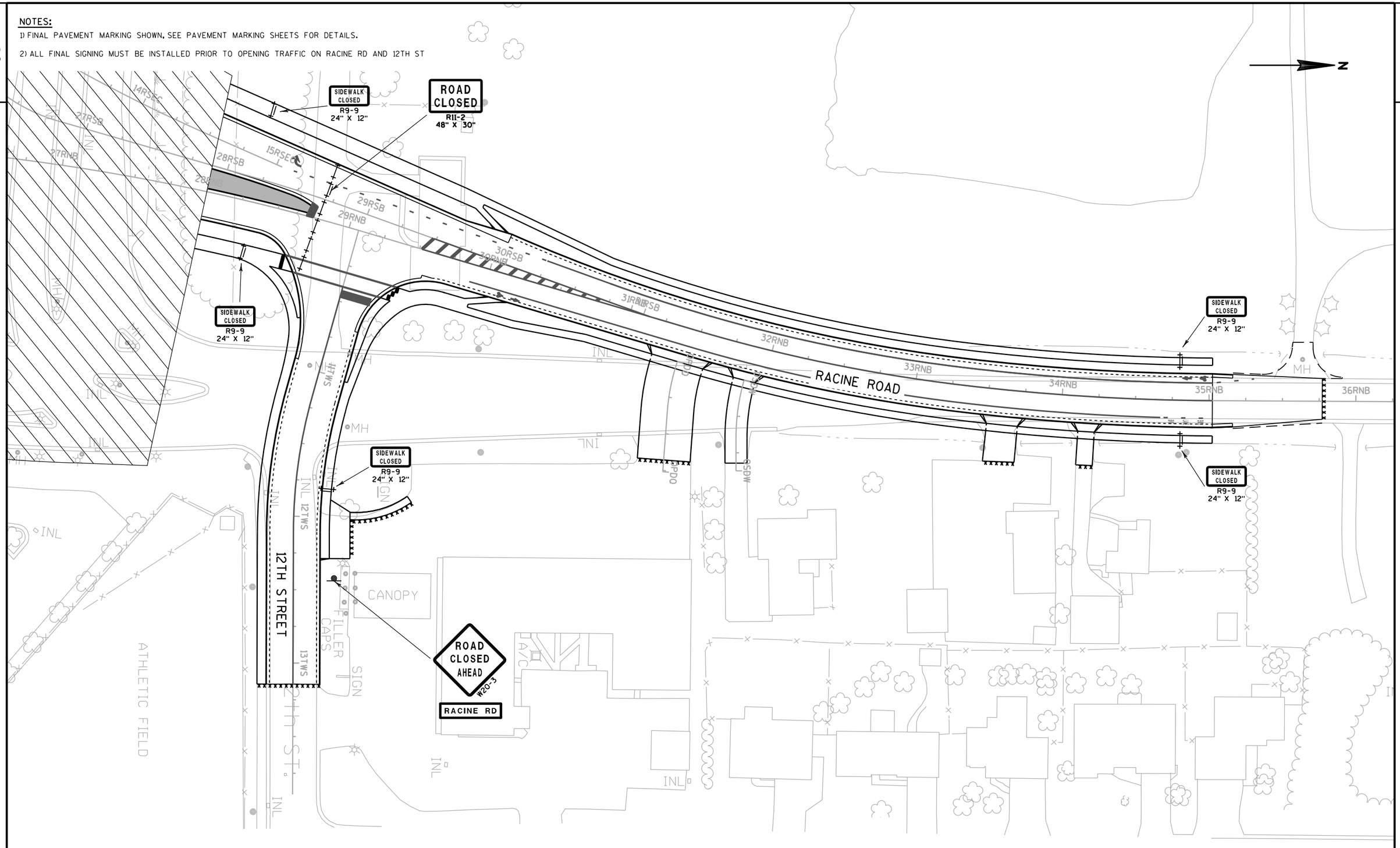


PROJECT NO: 1517-75-76	HWY: USH 10	COUNTY: WINNEBAGO	STAGE 2 CONSTRUCTION	SHEET 140 E

NOTES:

1) FINAL PAVEMENT MARKING SHOWN, SEE PAVEMENT MARKING SHEETS FOR DETAILS.

2) ALL FINAL SIGNING MUST BE INSTALLED PRIOR TO OPENING TRAFFIC ON RACINE RD AND 12TH ST



PROJECT NO: 1517-75-76	HWY: USH 10	COUNTY: WINNEBAGO	STAGE 2 CONSTRUCTION	SHEET 141	E

FILE NAME : \\milw00\ingrproj\56537\1517-75-76\t1\cds\026302_s2.dgn PLOT DATE : 1/18/2016 PLOT BY : arosemeyer PLOT NAME : PLOT SCALE : 60:1

WISDOT/CADDS SHEET 42

LEGEND

FENCE CHAIN LINK 6-FT

RSWC+19.88
34.05' RT
MATCH EXISTING

PROPOSED R/W

EXISTING R/W

RSWC+55.22
69.9' RT

RSWC+33.45
64.30' RT

TLE

RACINE ROAD SW RAMP BYPASS

24RSWC

25RSWC

26RSWC

SWC

RACINE ROAD CONNECTOR SB

239CSB

239CNB

238CSB

238CNB

237CSB

237CNB

RACINE ROAD CONNECTOR NB

23RSB

RACINE ROAD SB

23RNB

RACINE ROAD NB

13RRT

14RRT

12RRT

11RSEC

12RSEC

13RSEC

14RSEC

15RSEC

RACINE ROAD SE BYPASS

CTH "Q"

SIGN

INL

EXISTING R/W

SLOPE INTERCEPT (TYP)

MATCH EXISTING
RSB+88.49
66.21' LT

RSB+51.90
62.32' LT

PROPOSED R/W

MATCH EXISTING
RSB+74.19
70.24' LT

N

PROJECT NO: 1517-75-76	HWY: USH 10	COUNTY: WINNEBAGO	FENCING PLAN	SHEET 142 E

FILE NAME : \\milw00\ingrproj\56537\1517-75-76\t1\cds\027101_fn.dgn PLOT DATE : 1/18/2016 PLOT BY : crosemeyer PLOT NAME : PLOT SCALE : 40:1

WISDOT/CADDS SHEET 42

2

Curve : CCW-1
PC = 0CCW+82.46
X = 817319.204
Y = 545692.971
PI = 0CCW+87.54
X = 817324.229
Y = 545692.208
PT = 0CCW+92.46
X = 817328.445
Y = 545689.369
R = 22.62
DELTA = 25°19'36" RT
D = 253°16'05"
L = 10.00
T = 5.08
E = 0.56
BK = S 81°22'09" E
AH = S 56°02'33" E

Curve : CGS-1
PC = 0CGS+40.13
X = 817286.922
Y = 545748.990
PI = 0CGS+58.85
X = 817305.205
Y = 545744.992
PT = 0CGS+77.10
X = 817323.650
Y = 545748.154
R = 96.00
DELTA = 22°03'45" LT
D = 59°40'59"
L = 36.97
T = 18.71
E = 1.81
BK = S 77°39'54" E
AH = N 80°16'21" E

Curve : CGS-2
PC = 1CGS+22.05
X = 817367.960
Y = 545755.750
PI = 1CGS+27.40
X = 817373.234
Y = 545756.654
PT = 1CGS+32.05
X = 817377.282
Y = 545753.154
R = 11.33
DELTA = 50°34'33" RT
D = 505°50'06"
L = 10.00
T = 5.35
E = 1.20
BK = N 80°16'21" E
AH = S 49°09'06" E

Curve : CDW-1
PC = 0CDW+64.49
X = 817340.440
Y = 545866.269
PI = 1CDW+20.44
X = 817394.780
Y = 545852.914
PRC = 1CDW+66.09
X = 817433.724
Y = 545893.096
R = 97.50
DELTA = 59°42'17" LT
D = 58°45'54"
L = 101.60
T = 55.96
E = 14.92
BK = S 76°11'32" E
AH = N 44°06'11" E

Curve : CDW-2
PRC = 1CDW+66.09
X = 817433.724
Y = 545893.096
PI = 1CDW+92.42
X = 817452.050
Y = 545912.005
PT = 2CDW+17.52
X = 817477.403
Y = 545919.117
R = 97.50
DELTA = 30°13'37" RT
D = 58°45'54"
L = 51.44
T = 26.33
E = 3.49
BK = N 44°06'11" E
AH = N 74°19'48" E

Curve : CDW-3
PC = 2CDW+38.44
X = 817497.546
Y = 545924.767
PI = 2CDW+45.85
X = 817504.677
Y = 545926.768
PT = 2CDW+52.20
X = 817510.602
Y = 545922.322
R = 15.00
DELTA = 52°33'42" RT
D = 381°58'19"
L = 13.76
T = 7.41
E = 1.73
BK = N 74°19'48" E
AH = S 53°06'30" E

T 20 N
10 10
15 15
R 17 E

S 88°52'00" E
12NS
N 88°51'51" E
SECTION LINE 2640.00'
14NS
S 88°52'00" E
16NS
S 88°00'15" E
18NS
S 88°53'51" E

N

R/L 9TH STREET
(INFORMATION SHOWN ELSEWHERE)

PI = STA 9RNB+00.00
X = 817164.44
Y = 544644.57

BEGIN PROJECT 1517-75-76
STA 13RNB+50.00
X = 817168.361
Y = 545094.558

BEGIN CONSTRUCTION
STA 12RNB+50.00
X = 817167.491
Y = 544994.562

10RNB
12RNB
N 0°29'56" E
14RNB
N 4°03'27" E
16RNB
N 3°02'31" E
18RNB
N 3°02'31" E
20RSB
20RNB
N 2°25'08" E
22RSB
22RNB
N 12°24'28" E
24RSB
24RNB
N 14°38'26" E

R/L RACINE ROAD NB

PI = STA 15RNB+17.76
X = 817169.822
Y = 545262.307

PI = STA 15RNB+98.01
X = 817175.500
Y = 545342.359

RACINE ROAD (CTH P)

9TH STREET

PI = STA 0VMB+00.00
X = 817101.468
Y = 545348.433

R/L VALLEY MUFFLER & BRAKE PARKING

PI = STA 1VMB+58.00
X = 817109.853
Y = 545506.212

0VMB
1VMB
N 3°02'31" E

RNB = STA 15RNB+73.98
NS = STA 15NS+60.98
X = 817173.800
Y = 545318.386

R/L RACINE ROAD SB

BEGIN CONSTRUCTION
STA 20RSB+61.04
X = 817197.696
Y = 545804.849

PI = STA 20RNB+63.54
X = 817221.244
Y = 545804.786

RNB = STA 18RNB+42.30
RSB = STA 18RSB+42.30
X = 817188.464
Y = 545586.308

PC RNB-1
PT RNB-1
PI RNB-1
PC RSB-1
PT RSB-1
PI RSB-1
PC RSB-2
PT RSB-2
PI RSB-2
PC RNB-2
PT RNB-2
PI RNB-2
PC RNB-3
PT RNB-3
PI RNB-3

PI = STA OCGS+00.00
X = 817247.718
Y = 545757.563

PI = STA OCCW+00.00
X = 817237.679
Y = 545705.345

PI = STA OCDW+00.00
X = 817277.816
Y = 545881.660

OCCW
S 76°39'54" E
81.22'09" E 60.00'
OCGS
S 76°11'32" E
CCW-1
CCW-2
CGS-1
CGS-2
CDW-1
CDW-2
CDW-3
1CCW
S 88°16'21" E
S 88°02'35" E
1CGS
S 90°49'30" E
2CDW
N 74°19'48" E
S 53°06'30" E

BEGIN CONSTRUCTION
STA OCCW+09.50
X = 817247.072
Y = 545703.919

R/L CITGO CAR WASH DRIVEWAY

END CONSTRUCTION
STA OCCW+92.46
X = 817328.445
Y = 545689.369

PI = STA 1CCW+09.97
X = 817342.973
Y = 545679.585

R/L CITGO GAS STATION DRIVEWAY

PI = STA 1CGS+42.05
X = 817384.847
Y = 545746.614

END CONSTRUCTION
STA 1CGS+32.05
X = 817377.282
Y = 545753.154

BEGIN CONSTRUCTION
STA OCDW+06.78
X = 817284.397
Y = 545880.042

BEGIN CONSTRUCTION
STA OCGS+09.50
X = 817256.999
Y = 545755.533

R/L CITGO DRIVEWAY

END CONSTRUCTION
2CDW+72.34
X = 817526.706
Y = 545910.233

PI = STA 2CDW+93.12
X = 817543.324
Y = 545897.760

R/L RACINE ROAD ROUNDABOUT
(INFORMATION SHOWN ELSEWHERE)

SECTION LINE 2653.14' N00°26'18"E

R/L RACINE ROAD SW BYPASS

END CONSTRUCTION
STA 26RSWC+99.48
X = 817214.956
Y = 546034.999

PI = STA 24RSB+11.65
X = 817274.407
Y = 546145.590

PI = STA 28RSWC+40.56
X = 817193.945
Y = 545895.484

28RSWC
RACINE ROAD SW BYPASS
26RSWC
S 8°33'51" W
N 17°03'50" E
PT RSWC-6
PI RSWC-6

PI = STA 24RNB+05.67
X = 817350.614
Y = 546104.221

T 20 N
10 11
15 14
R 17 E

T 20 N
10 11
10 11
R 17 E

Curve : RNB-1
PC = 18RNB+42.30
X = 817188.464
Y = 545586.308
PI = 19RNB+34.05
X = 817193.333
Y = 545677.924
PT = 20RNB+25.38
X = 817213.046
Y = 545767.526
R = 1120.00
DELTA = 9°21'57" RT
D = 5°06'57"
L = 183.08
T = 91.75
E = 3.75
BK = N 3°02'31" E
AH = N 12°24'28" E

Curve : RNB-2
PC = 22RNB+78.75
X = 817267.523
Y = 546014.966
PI = 23RNB+29.57
X = 817278.451
Y = 546064.593
PT = 23RNB+74.16
X = 817322.992
Y = 546089.053
R = 112.00
DELTA = 48°48'30" RT
D = 51°09'25"
L = 95.41
T = 50.82
E = 10.99
BK = N 12°25'04" E
AH = N 61°13'35" E

Curve : RNB-3
PC = 24RNB+48.19
X = 817389.275
Y = 546121.918
PI = 25RNB+02.01
X = 817438.213
Y = 546144.320
PT = 25RNB+46.04
X = 817443.909
Y = 546197.840
R = 94.49
DELTA = 59°19'47" LT
D = 60°38'02"
L = 97.85
T = 53.82
E = 14.25
BK = N 65°24'15" E
AH = N 6°04'28" E

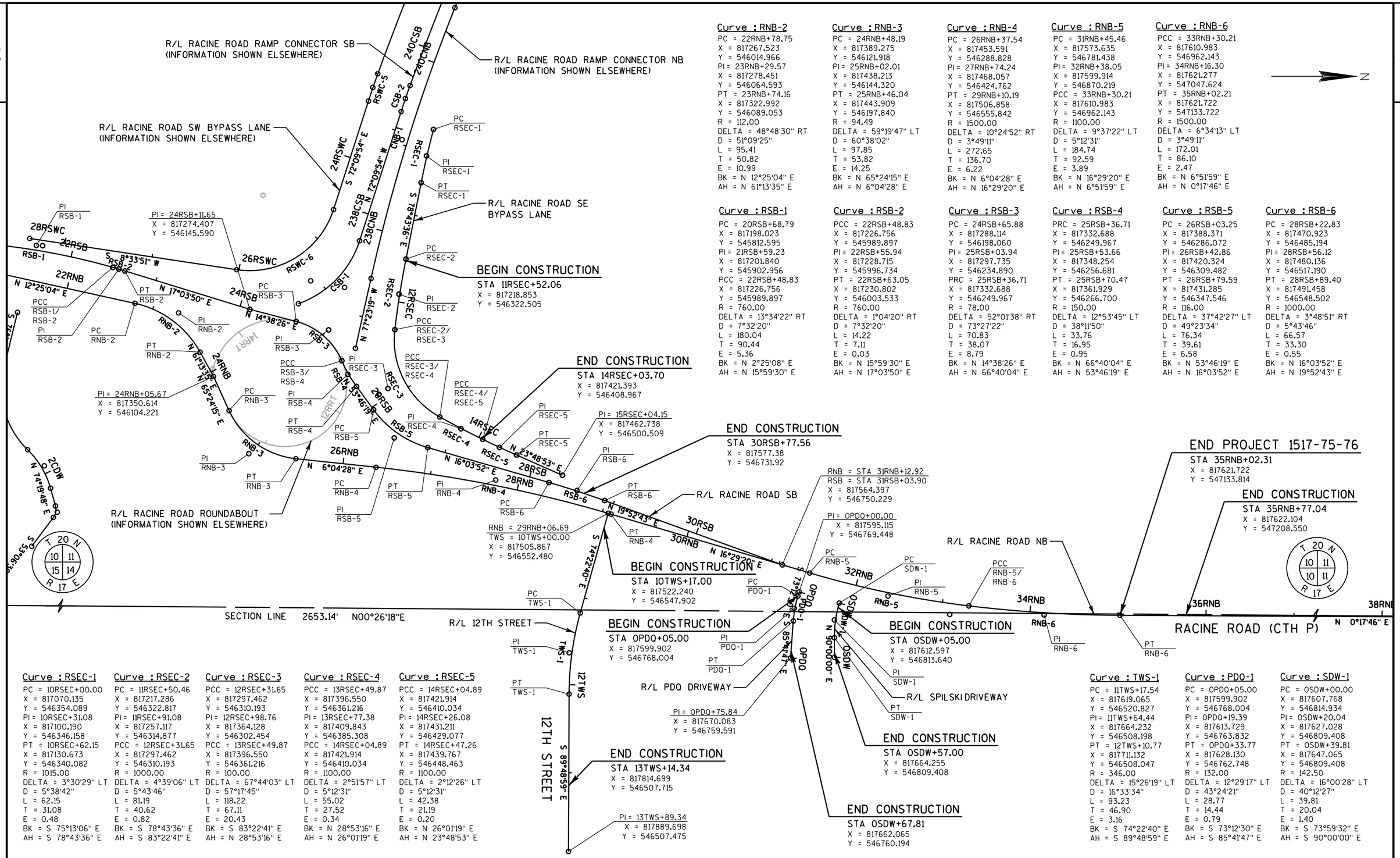
Curve : RSWC-6
PC = 24RSWC+61.99
X = 817161.081
Y = 546240.592
PI = 25RSWC+46.99
X = 817241.996
Y = 546214.559
PT = 26RSWC+02.89
X = 817229.339
Y = 546130.507
R = 100.00
DELTA = 80°43'45" RT
D = 57°17'45"
L = 140.90
T = 85.00
E = 31.24
BK = S 72°09'54" E
AH = S 8°33'51" W

Curve : RSB-1
PC = 20RSB+68.79
X = 817198.023
Y = 545812.595
PI = 21RSB+59.23
X = 817201.840
Y = 545902.956
PCC = 22RSB+48.83
X = 817226.756
Y = 545989.897
R = 760.00
DELTA = 13°34'22" RT
D = 7°32'20"
L = 180.04
T = 90.44
E = 5.36
BK = N 2°25'08" E
AH = N 15°59'30" E

Curve : RSB-2
PCC = 22RSB+48.83
X = 817226.756
Y = 545989.897
PI = 22RSB+55.94
X = 817228.715
Y = 545996.734
PT = 22RSB+63.05
X = 817230.802
Y = 546003.533
R = 760.00
DELTA = 1°04'20" RT
D = 7°32'20"
L = 14.22
T = 7.11
E = 0.03
BK = N 15°59'30" E
AH = N 17°03'50" E

Curve : RSB-3
PC = 24RSB+65.88
X = 817288.114
Y = 546198.060
PI = 25RSB+03.94
X = 817297.735
Y = 546234.890
PRC = 25RSB+36.71
X = 817332.688
Y = 546249.967
R = 78.00
DELTA = 52°01'38" RT
D = 73°27'22"
L = 70.83
T = 38.07
E = 8.79
BK = N 14°38'26" E
AH = N 66°40'04" E

PROJECT NO: 1517-75-76	HWY: USH 10	COUNTY: WINNEBAGO	ALIGNMENT PLAN - LOCAL ROADS	SHEET 143	E



Curve : RNB-2
PC = 22RNB+78.75
X = 817267.523
Y = 546014.966
PI = 23RNB+29.57
X = 817278.451
Y = 546064.593
PT = 23RNB+74.16
X = 817322.992
Y = 546089.053
R = 112.00
DELTA = 48°48'30" RT
D = 51°09'25"
L = 95.41
T = 50.82
E = 10.99
BK = N 12°25'04" E
AH = N 61°13'35" E

Curve : RNB-3
PC = 24RNB+48.19
X = 817389.275
Y = 546121.918
PI = 25RNB+02.01
X = 817438.213
Y = 546144.320
PT = 25RNB+46.04
X = 817443.909
Y = 546197.840
R = 94.49
DELTA = 59°19'47" LT
D = 60°38'02"
L = 97.85
T = 53.82
E = 14.25
BK = N 65°24'15" E
AH = N 6°04'28" E

Curve : RNB-4
PC = 26RNB+37.54
X = 817453.591
Y = 546288.828
PI = 27RNB+74.24
X = 817468.057
Y = 546424.762
PT = 29RNB+10.19
X = 817506.858
Y = 546555.842
R = 1500.00
DELTA = 10°24'52" RT
D = 3°49'11"
L = 272.65
T = 136.70
E = 6.22
BK = N 6°04'28" E
AH = N 16°29'20" E

Curve : RNB-5
PC = 31RNB+45.46
X = 817573.635
Y = 546781.438
PI = 32RNB+38.05
X = 817599.914
Y = 546870.219
PCC = 33RNB+30.21
X = 817610.983
Y = 546962.143
R = 1100.00
DELTA = 9°37'22" LT
D = 5°12'31"
L = 184.74
T = 92.59
E = 3.89
BK = N 16°29'20" E
AH = N 6°51'59" E

Curve : RNB-6
PCC = 33RNB+30.21
X = 817610.983
Y = 546962.143
PI = 34RNB+16.30
X = 817621.277
Y = 547047.624
PT = 35RNB+02.21
X = 817621.722
Y = 547133.722
R = 1500.00
DELTA = 6°34'13" LT
D = 3°49'11"
L = 172.01
T = 86.10
E = 2.47
BK = N 6°51'59" E
AH = N 0°17'46" E

Curve : RSB-1
PC = 20RSB+68.79
X = 817198.023
Y = 545812.595
PI = 21RSB+59.23
X = 817201.840
Y = 545902.956
PCC = 22RSB+48.83
X = 817226.756
Y = 545989.897
R = 760.00
DELTA = 13°34'22" RT
D = 7°32'20"
L = 180.04
T = 90.44
E = 5.36
BK = N 2°25'08" E
AH = N 15°59'30" E

Curve : RSB-2
PCC = 22RSB+48.83
X = 817226.756
Y = 545989.897
PI = 22RSB+55.94
X = 817228.715
Y = 545996.734
PT = 22RSB+63.05
X = 817230.802
Y = 546003.533
R = 760.00
DELTA = 1°04'20" RT
D = 7°32'20"
L = 14.22
T = 7.11
E = 0.03
BK = N 15°59'30" E
AH = N 17°03'50" E

Curve : RSB-3
PC = 24RSB+65.88
X = 817288.114
Y = 546198.060
PI = 25RSB+03.94
X = 817297.735
Y = 546234.890
PRC = 25RSB+36.71
X = 817332.688
Y = 546249.967
R = 78.00
DELTA = 52°01'38" RT
D = 73°27'22"
L = 70.83
T = 38.07
E = 8.79
BK = N 14°38'26" E
AH = N 66°40'04" E

Curve : RSB-4
PRC = 25RSB+36.71
X = 817332.688
Y = 546249.967
PI = 25RSB+53.66
X = 817348.254
Y = 546256.681
PT = 25RSB+70.47
X = 817361.929
Y = 546266.700
R = 150.00
DELTA = 12°53'45" LT
D = 38°11'50"
L = 33.76
T = 16.95
E = 0.95
BK = N 66°40'04" E
AH = N 53°46'19" E

Curve : RSB-5
PC = 26RSB+03.25
X = 817388.371
Y = 546286.072
PI = 26RSB+42.86
X = 817420.324
Y = 546309.482
PT = 26RSB+79.59
X = 817431.285
Y = 546347.546
R = 116.00
DELTA = 37°42'27" LT
D = 49°23'34"
L = 76.34
T = 39.61
E = 6.58
BK = N 53°46'19" E
AH = N 16°03'52" E

Curve : RSB-6
PC = 28RSB+22.83
X = 817470.923
Y = 546485.194
PI = 28RSB+56.12
X = 817480.136
Y = 546517.190
PT = 28RSB+89.40
X = 817491.458
Y = 546548.502
R = 1000.00
DELTA = 3°48'51" RT
D = 5°43'46"
L = 66.57
T = 33.30
E = 0.55
BK = N 16°03'52" E
AH = N 19°52'43" E

Curve : RSEC-1
PC = 10RSEC+00.00
X = 817070.135
Y = 546354.089
PI = 10RSEC+31.08
X = 817100.190
Y = 546346.158
PT = 10RSEC+62.15
X = 817130.673
Y = 546340.082
R = 1015.00
DELTA = 3°30'29" LT
D = 5°38'42"
L = 62.15
T = 31.08
E = 0.48
BK = S 75°13'06" E
AH = S 78°43'36" E

Curve : RSEC-2
PC = 11RSEC+50.46
X = 817217.286
Y = 546322.817
PI = 11RSEC+91.08
X = 817257.117
Y = 546314.877
PCC = 12RSEC+31.65
X = 817297.462
Y = 546310.193
R = 1000.00
DELTA = 4°39'06" LT
D = 5°43'46"
L = 81.19
T = 40.62
E = 0.82
BK = S 78°43'36" E
AH = S 83°22'41" E

Curve : RSEC-3
PCC = 12RSEC+31.65
X = 817297.462
Y = 546310.193
PI = 12RSEC+98.76
X = 817364.128
Y = 546302.454
PCC = 13RSEC+49.87
X = 817396.550
Y = 546361.216
R = 100.00
DELTA = 67°44'03" LT
D = 57°17'45"
L = 118.22
T = 67.11
E = 20.43
BK = S 83°22'41" E
AH = N 28°53'16" E

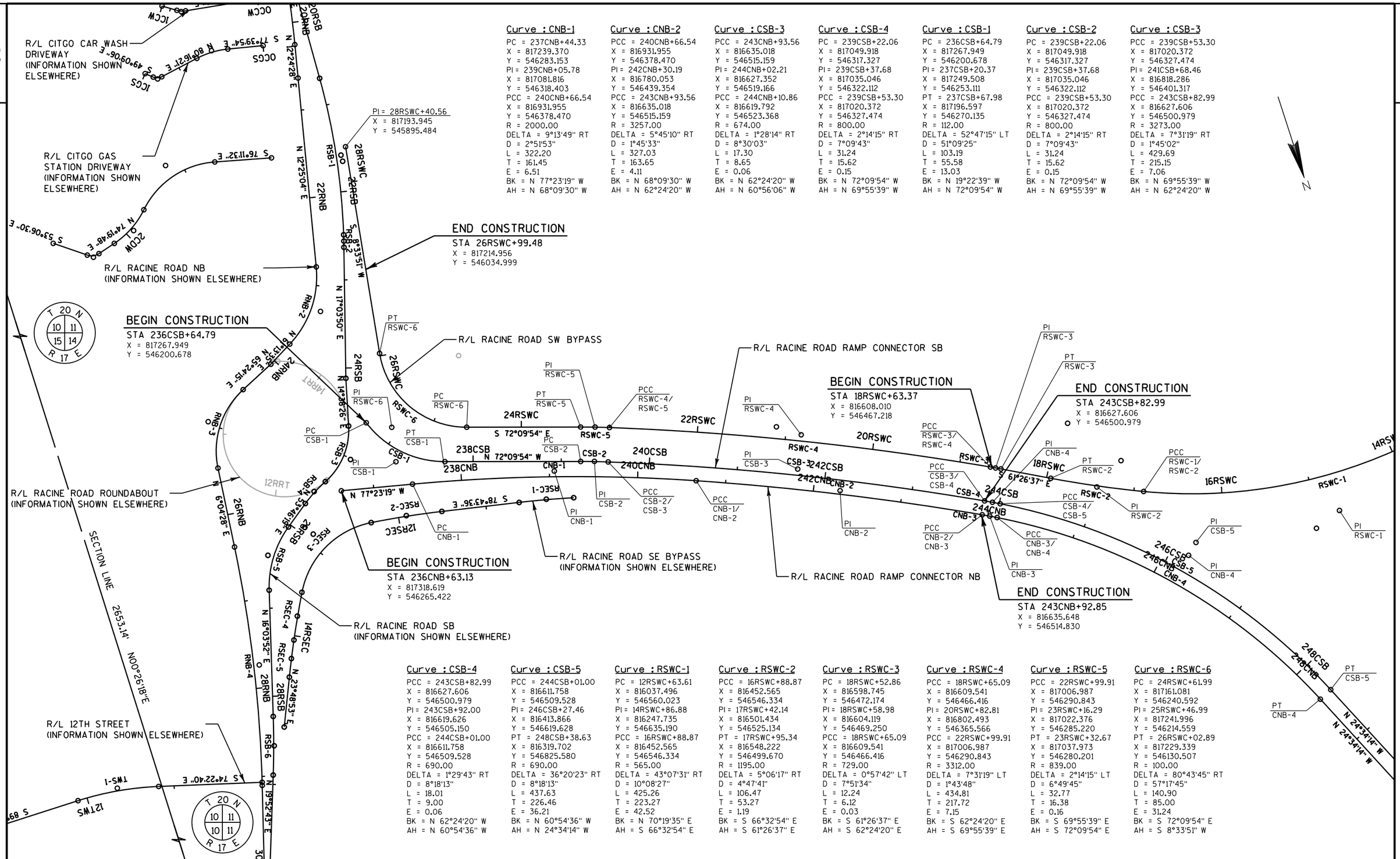
Curve : RSEC-4
PCC = 13RSEC+49.87
X = 817396.550
Y = 546361.216
PI = 13RSEC+77.38
X = 817409.843
Y = 546385.308
PCC = 14RSEC+04.89
X = 817421.914
Y = 546410.034
R = 1100.00
DELTA = 2°51'57" LT
D = 5°12'31"
L = 55.02
T = 27.52
E = 0.34
BK = N 28°53'16" E
AH = N 26°01'19" E

Curve : RSEC-5
PCC = 14RSEC+04.89
X = 817421.914
Y = 546410.034
PI = 14RSEC+26.08
X = 817431.211
Y = 546429.077
PT = 14RSEC+47.26
X = 817439.767
Y = 546448.463
R = 1100.00
DELTA = 2°12'26" LT
D = 5°12'31"
L = 42.38
T = 21.19
E = 0.20
BK = N 26°01'19" E
AH = N 23°48'53" E

Curve : TWS-1
PC = 11TWS+17.54
X = 817619.065
Y = 546520.827
PI = 11TWS+64.44
X = 817664.232
Y = 546508.198
PT = 12TWS+10.77
X = 817711.132
Y = 546508.047
R = 346.00
DELTA = 15°26'19" LT
D = 16°33'34"
L = 93.23
T = 46.90
E = 3.16
BK = S 74°22'40" E
AH = S 89°48'59" E

Curve : PDO-1
PC = OPDO+05.00
X = 817599.902
Y = 546768.004
PI = OPDO+19.39
X = 817613.729
Y = 546763.832
PT = OPDO+33.77
X = 817628.130
Y = 546762.748
R = 132.00
DELTA = 12°29'17" LT
D = 43°24'21"
L = 28.77
T = 14.44
E = 0.79
BK = S 73°12'30" E
AH = S 85°41'47" E

Curve : SDW-1
PC = OSDW+00.00
X = 817607.768
Y = 546814.934
PI = OSDW+20.04
X = 817627.028
Y = 546809.408
PT = OSDW+39.81
X = 817647.065
Y = 546809.408
R = 142.50
DELTA = 16°00'28" LT
D = 40°12'27"
L = 39.81
T = 20.04
E = 1.40
BK = S 73°59'32" E
AH = S 90°00'00" E



Curve : CNB-1
PC = 237CNB+44.33
X = 817239.370
Y = 546283.153
PI = 239CNB+05.78
X = 817081.816
Y = 546318.403
PCC = 240CNB+66.54
X = 816931.955
Y = 546378.470
R = 2000.00
DELTA = 9°13'49" RT
D = 2°51'53"
L = 322.20
T = 161.45
E = 6.51
BK = N 77°23'19" W
AH = N 68°09'30" W

Curve : CNB-2
PCC = 240CNB+66.54
X = 816931.955
Y = 546378.470
PI = 242CNB+30.19
X = 816780.053
Y = 546439.354
PCC = 243CNB+93.56
X = 816635.018
Y = 546515.159
R = 3257.00
DELTA = 5°45'10" RT
D = 1°45'33"
L = 327.03
T = 163.65
E = 4.11
BK = N 68°09'30" W
AH = N 62°24'20" W

Curve : CSB-3
PCC = 243CNB+93.56
X = 816635.018
Y = 546515.159
PI = 244CNB+02.21
X = 816627.352
Y = 546519.166
PCC = 244CNB+10.86
X = 816619.792
Y = 546523.368
R = 674.00
DELTA = 1°28'14" RT
D = 8°30'03"
L = 17.30
T = 8.65
E = 0.06
BK = N 62°24'20" W
AH = N 60°56'06" W

Curve : CSB-4
PC = 239CSB+22.06
X = 817049.918
Y = 546317.327
PI = 239CSB+37.68
X = 817035.046
Y = 546322.112
PCC = 239CSB+53.30
X = 817020.372
Y = 546327.474
R = 800.00
DELTA = 2°14'15" RT
D = 7°09'43"
L = 31.24
T = 15.62
E = 0.15
BK = N 72°09'54" W
AH = N 69°55'39" W

Curve : CSB-1
PC = 236CSB+64.79
X = 817267.949
Y = 546200.678
PI = 237CSB+20.37
X = 817249.508
Y = 546253.111
PT = 237CSB+67.98
X = 817196.597
Y = 546270.135
R = 112.00
DELTA = 52°47'15" LT
D = 51°09'25"
L = 103.19
T = 55.58
E = 13.03
BK = N 19°22'39" W
AH = N 72°09'54" W

Curve : CSB-2
PC = 239CSB+22.06
X = 817049.918
Y = 546317.327
PI = 239CSB+37.68
X = 817035.046
Y = 546322.112
PCC = 239CSB+53.30
X = 817020.372
Y = 546327.474
R = 800.00
DELTA = 2°14'15" RT
D = 7°09'43"
L = 31.24
T = 15.62
E = 0.15
BK = N 72°09'54" W
AH = N 69°55'39" W

Curve : CSB-3
PCC = 239CSB+53.30
X = 817020.372
Y = 546327.474
PI = 241CSB+68.46
X = 816818.286
Y = 546401.317
PCC = 243CSB+82.99
X = 816627.606
Y = 546500.979
R = 3273.00
DELTA = 7°31'19" RT
D = 1°45'02"
L = 429.69
T = 215.15
E = 7.06
BK = N 69°55'39" W
AH = N 62°24'20" W

Curve : CSB-4
PCC = 243CSB+82.99
X = 816627.606
Y = 546500.979
PI = 243CSB+92.00
X = 816619.626
Y = 546505.150
PCC = 244CSB+01.00
X = 816611.758
Y = 546509.528
R = 690.00
DELTA = 1°29'43" RT
D = 8°18'13"
L = 18.01
T = 9.00
E = 0.06
BK = N 62°24'20" W
AH = N 60°54'36" W

Curve : CSB-5
PCC = 244CSB+01.00
X = 816611.758
Y = 546509.528
PI = 246CSB+27.46
X = 816413.866
Y = 546619.628
PT = 248CSB+38.63
X = 816319.702
Y = 546825.580
R = 690.00
DELTA = 36°20'23" RT
D = 8°18'13"
L = 437.63
T = 226.46
E = 36.21
BK = N 60°54'36" W
AH = N 24°34'14" W

Curve : RSWC-1
PC = 12RSWC+63.61
X = 816037.496
Y = 546560.023
PI = 14RSWC+86.88
X = 816247.735
Y = 546635.190
PCC = 16RSWC+88.87
X = 816452.565
Y = 546546.334
R = 565.00
DELTA = 43°07'31" RT
D = 10°08'27"
L = 425.26
T = 223.27
E = 42.52
BK = N 70°19'35" E
AH = S 66°32'54" E

Curve : RSWC-2
PCC = 16RSWC+88.87
X = 816452.565
Y = 546546.334
PI = 17RSWC+42.14
X = 816501.434
Y = 546525.134
PT = 17RSWC+95.34
X = 816548.222
Y = 546499.670
R = 1195.00
DELTA = 5°06'17" RT
D = 4°47'41"
L = 106.47
T = 53.27
E = 1.19
BK = S 66°32'54" E
AH = S 61°26'37" E

Curve : RSWC-3
PC = 18RSWC+52.86
X = 816598.745
Y = 546472.174
PI = 18RSWC+58.98
X = 816604.119
Y = 546469.250
PCC = 18RSWC+65.09
X = 816609.541
Y = 546466.416
R = 729.00
DELTA = 0°57'42" LT
D = 7°51'34"
L = 12.24
T = 6.12
E = 0.03
BK = S 61°26'37" E
AH = S 62°24'20" E

Curve : RSWC-4
PCC = 18RSWC+65.09
X = 816609.541
Y = 546466.416
PI = 20RSWC+82.81
X = 816802.493
Y = 546365.566
PCC = 22RSWC+99.91
X = 817006.987
Y = 546290.843
R = 3312.00
DELTA = 7°31'19" LT
D = 1°43'48"
L = 434.81
T = 217.72
E = 7.15
BK = S 62°24'20" E
AH = S 69°55'39" E

Curve : RSWC-5
PCC = 22RSWC+99.91
X = 817006.987
Y = 546290.843
PI = 23RSWC+16.29
X = 817022.376
Y = 546285.220
PT = 23RSWC+32.67
X = 817037.973
Y = 546280.201
R = 839.00
DELTA = 2°14'15" LT
D = 6°49'45"
L = 32.77
T = 16.38
E = 0.16
BK = S 69°55'39" E
AH = S 72°09'54" E

Curve : RSWC-6
PC = 24RSWC+61.99
X = 817161.081
Y = 546240.592
PI = 25RSWC+46.99
X = 817241.996
Y = 546214.559
PT = 26RSWC+02.89
X = 817229.339
Y = 546130.507
R = 100.00
DELTA = 80°43'45" RT
D = 57°17'45"
L = 140.90
T = 85.00
E = 31.24
BK = S 72°09'54" E
AH = S 8°33'51" W

PROJECT NO: 1517-75-76	HWY: USH 10	COUNTY: WINNEBAGO	ALIGNMENT PLAN - LOCAL ROADS	SHEET 145	E

2

N

T 20 N
10 11
10 11
R 17 E

OCCS
S 77°39'54" E
N 80°16'21" E
ICCS
S 49°08'08" E

R/L CITGO GAS STATION DRIVEWAY
(INFORMATION SHOWN ELSEWHERE)

OCCW
S 81°22'09" E
ICCW
S 56°02'33" E

R/L CITGO CAR WASH DRIVEWAY
(INFORMATION SHOWN ELSEWHERE)

20RSB
20RNB
N 12°24'2
S 24°35'08" E
RNB-1

R/L RACINE ROAD SB
(INFORMATION SHOWN ELSEWHERE)

SECTION LINE 2653.14' N00°26'18"E

R/L VALLEY MUFFLER & BRAKE PARKING

1VMB
N 3°02'31" E
0VMB

18RNB
N 3°02'31" E
RACINE ROAD (CTH P)

BEGIN CONSTRUCTION
STA 13NS+31.00
X = 816943.866
Y = 545322.935

PI = STA 10NS+00.00
X = 816612.951
Y = 545325.481

T 20 N
10 10
15 15
R 17 E

PI = STA 12NS+49.90
X = 816862.803
Y = 545320.538

RNB = STA 15RNB+73.98
NS = STA 15NS+60.98
X = 817173.800
Y = 545318.386

PI = STA 18NS+21.5
X = 817433.683
Y = 545307.972

END CONSTRUCTION
STA 19NS+20.00
X = 817532.516
Y = 545306.070

SECTION LINE 2640.00' S1°09'12"E

S 88°52'00" E
N 88°16'15" E
S 88°52'00" E

12NS
14NS
16RNB
16NS 9TH STREET
18NS

S 86°00'15" E
S 88°53'51" E

SECTION LINE 2633.38' S00°00'08"E

PI = STA 13NS+30.00
X = 816942.866
Y = 545322.955

R/L 9TH STREET

N 4°03'2

PI = STA 17NS+15.58
X = 817328.374
Y = 545315.328

T 20 N
10 11
15 14
R 17 E

PI = STA 19NS+99.86
X = 817612.357
Y = 545304.534

R/L RACINE ROAD NB
(INFORMATION SHOWN ELSEWHERE)

14RNB
12RNB
N 0°29'56" E
RACINE ROAD

PROJECT NO: 1517-75-76	HWY: USH 10	COUNTY: WINNEBAGO	ALIGNMENT PLAN - LOCAL ROADS	SHEET	E

FILE NAME : \\milw00\ingrproj\56537\1517-75-76\t1\cds\027204_ad.dgn PLOT DATE : 1/18/2016 PLOT BY : arosemeyer PLOT NAME : PLOT SCALE : 100:1

2

PI
RRT-2

R/L RACINE RD SB
(INFORMATION SHOWN ELSEWHERE)

R/L RACINE RD SW BYPASS LANE
(INFORMATION SHOWN ELSEWHERE)

RACINE RD RAMP CONNECTOR SB
(INFORMATION SHOWN ELSEWHERE)

RACINE RD RAMP CONNECTOR

RACINE RD SW BYPASS LANE

RACINE RD

RACINE RD RAMP CONNECTOR NB
(INFORMATION SHOWN ELSEWHERE)

N

28RSWC
22RSB
27RSWC
26RSWC
25RSWC
23RSB
22RNB
24RSB
23RNB
238CSB
238CNB
237CSB
237CNB
11RSEC
12RSEC
13RSEC
14RSEC
25RSB
26RSB
27RSB
28RSB
15RS
26RNB
27RNB
28RNB
25RNB

BEGIN CONSTRUCTION 1517-75-76
STA 10RRT+00.00
X = 817350.216
Y = 546104.039

END CONSTRUCTION 1517-75-76
STA 14RRT+60.85
X = 817350.216
Y = 546104.039

PCC
RRT-2
RRT-3

PI
RRT-3

PT
RRT-3

PC
RRT-1

PCC
RRT-1
RRT-2

RRT-2
14RRT
13RRT
12RRT
11RRT
RRT-1
RRT-3
N 65°24'15" E

R/L RACINE ROAD ROUNDABOUT

R/L RACINE RD SE BYPASS LANE
(INFORMATION SHOWN ELSEWHERE)

RACINE RD SE BYPASS LANE

R/L RACINE RD NB
(INFORMATION SHOWN ELSEWHERE)

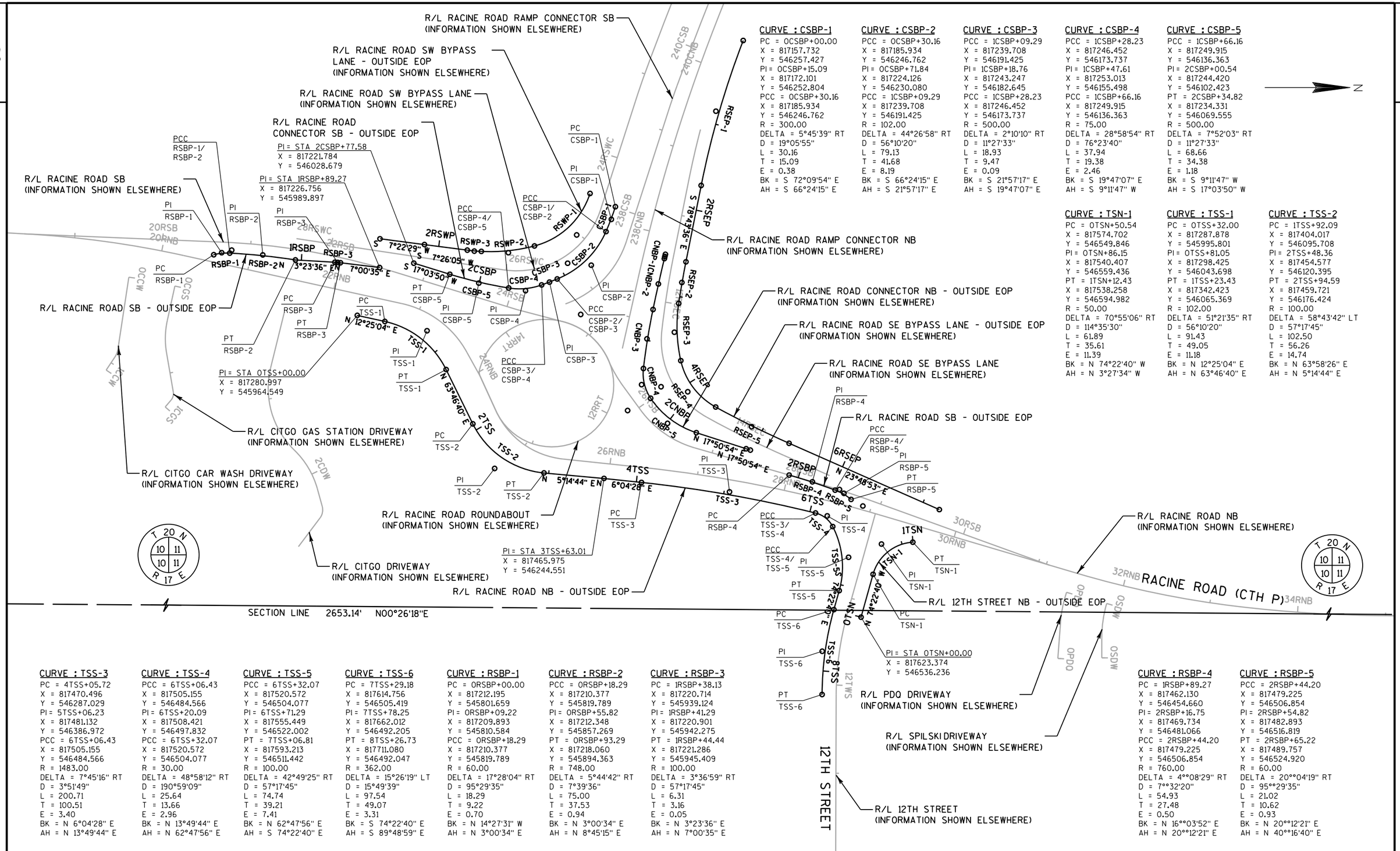
Curve : RRT-1
PC = 10RRT+42.96
X = 817389.275
Y = 546121.918
PCC = 12RRT+63.95
X = 817330.024
Y = 546248.758
R = 70.00
DELTA = 180°53'08" LT
D = 81°51'04"
L = 220.99
T = -1.00
E = -1.00
BK = N 65°24'15" E
AH = S 64°31'07" W

Curve : RRT-2
PCC = 12RRT+63.95
X = 817330.024
Y = 546248.758
PI = 14RRT+69.11
X = 817144.824
Y = 546160.496
PCC = 14RRT+52.32
X = 817341.883
Y = 546103.424
R = 78.00
DELTA = 138°22'00" LT
D = 73°27'22"
L = 188.37
T = 205.16
E = 141.48
BK = S 64°31'07" W
AH = S 73°50'53" E

Curve : RRT-3
PCC = 14RRT+52.32
X = 817341.883
Y = 546103.424
PI = 14RRT+56.77
X = 817346.163
Y = 546102.184
PT = 14RRT+60.85
X = 817350.215
Y = 546104.039
R = 12.00
DELTA = 40°44'47" LT
D = 477°27'53"
L = 8.53
T = 4.46
E = 0.80
BK = S 73°50'53" E
AH = N 65°24'20" E

PROJECT NO: 1517-75-76	HWY: USH 10	COUNTY: WINNEBAGO	ALIGNMENT PLAN - ROUNDABOUT	SHEET 147	E

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CURVE : CSBP-1
PC = 0CSBP+00.00
X = 817157.732
Y = 546257.427
PI = 0CSBP+15.09
X = 817172.101
Y = 546252.804
PCC = 0CSBP+30.16
X = 817185.934
Y = 546246.762
R = 300.00
DELTA = 5°45'39" RT
D = 19°05'55"
L = 30.16
T = 15.09
E = 0.38
BK = S 72°09'54" E
AH = S 66°24'15" E

CURVE : CSBP-2
PCC = 0CSBP+30.16
X = 817185.934
Y = 546246.762
PI = 0CSBP+71.84
X = 817224.126
Y = 546230.080
PCC = 1CSBP+09.29
X = 817239.708
Y = 546191.425
R = 102.00
DELTA = 44°26'58" RT
D = 56°10'20"
L = 79.13
T = 41.68
E = 8.19
BK = S 66°24'15" E
AH = S 21°57'17" E

CURVE : CSBP-3
PCC = 1CSBP+09.29
X = 817239.708
Y = 546191.425
PI = 1CSBP+18.76
X = 817243.247
Y = 546182.645
PCC = 1CSBP+28.23
X = 817246.452
Y = 546173.737
R = 500.00
DELTA = 2°10'10" RT
D = 11°27'33"
L = 18.93
T = 9.47
E = 0.09
BK = S 21°57'17" E
AH = S 19°47'07" E

CURVE : CSBP-4
PCC = 1CSBP+28.23
X = 817246.452
Y = 546173.737
PI = 1CSBP+47.61
X = 817253.013
Y = 546155.498
PCC = 1CSBP+66.16
X = 817249.915
Y = 546136.363
R = 75.00
DELTA = 28°58'54" RT
D = 76°23'40"
L = 37.94
T = 19.38
E = 2.46
BK = S 19°47'07" E
AH = S 9°11'47" W

CURVE : CSBP-5
PCC = 1CSBP+66.16
X = 817249.915
Y = 546136.363
PI = 2CSBP+00.54
X = 817244.420
Y = 546102.423
PT = 2CSBP+34.82
X = 817234.331
Y = 546069.555
R = 500.00
DELTA = 7°52'03" RT
D = 11°27'33"
L = 68.66
T = 34.38
E = 1.18
BK = S 9°11'47" W
AH = S 17°03'50" W

CURVE : TSN-1
PC = 0TSN+50.54
X = 817574.702
Y = 546549.846
PI = 0TSN+86.15
X = 817540.407
Y = 546559.436
PT = 1TSN+12.43
X = 817538.258
Y = 546594.982
R = 50.00
DELTA = 70°55'06" RT
D = 114°35'30"
L = 61.89
T = 35.61
E = 11.39
BK = N 74°22'40" W
AH = N 3°27'34" W

CURVE : TSS-1
PC = 0TSS+32.00
X = 817287.878
Y = 545995.801
PI = 0TSS+81.05
X = 817298.425
Y = 546043.698
PT = 1TSS+23.43
X = 817342.423
Y = 546065.369
R = 102.00
DELTA = 51°21'35" RT
D = 56°10'20"
L = 91.43
T = 49.05
E = 11.18
BK = N 12°25'04" E
AH = N 63°46'40" E

CURVE : TSS-2
PC = 1TSS+92.09
X = 817404.017
Y = 546095.708
PI = 2TSS+48.36
X = 817454.577
Y = 546120.395
PT = 2TSS+94.59
X = 817459.721
Y = 546176.424
R = 100.00
DELTA = 58°43'42" LT
D = 57°17'45"
L = 102.50
T = 56.26
E = 14.74
BK = N 63°58'26" E
AH = N 5°14'44" E

CURVE : TSS-3
PC = 4TSS+05.72
X = 817470.496
Y = 546287.029
PI = 5TSS+06.23
X = 817481.132
Y = 546386.972
PCC = 6TSS+06.43
X = 817505.155
Y = 546484.566
R = 1483.00
DELTA = 7°45'16" RT
D = 3°51'49"
L = 200.71
T = 100.51
E = 3.40
BK = N 6°04'28" E
AH = N 13°49'44" E

CURVE : TSS-4
PCC = 6TSS+06.43
X = 817505.155
Y = 546484.566
PI = 6TSS+20.09
X = 817508.421
Y = 546497.832
PCC = 6TSS+32.07
X = 817520.572
Y = 546504.077
R = 30.00
DELTA = 48°58'12" RT
D = 190°59'09"
L = 25.64
T = 13.66
E = 2.96
BK = N 13°49'44" E
AH = N 62°47'56" E

CURVE : TSS-5
PCC = 6TSS+32.07
X = 817520.572
Y = 546504.077
PI = 6TSS+71.29
X = 817555.449
Y = 546522.002
PT = 7TSS+06.81
X = 817593.213
Y = 546511.442
R = 100.00
DELTA = 42°49'25" RT
D = 57°17'45"
L = 74.74
T = 39.21
E = 7.41
BK = N 62°47'56" E
AH = S 74°22'40" E

CURVE : TSS-6
PC = 7TSS+29.18
X = 817614.756
Y = 546505.419
PI = 7TSS+78.25
X = 817662.012
Y = 546492.205
PT = 8TSS+26.73
X = 817711.080
Y = 546492.047
R = 362.00
DELTA = 15°26'19" LT
D = 15°49'39"
L = 97.54
T = 49.07
E = 3.31
BK = S 74°22'40" E
AH = S 89°48'59" E

CURVE : RSBP-1
PC = 0RSBP+00.00
X = 817212.195
Y = 545801.659
PI = 0RSBP+09.22
X = 817209.893
Y = 545810.584
PCC = 0RSBP+18.29
X = 817210.377
Y = 545819.789
R = 60.00
DELTA = 17°28'04" RT
D = 95°29'35"
L = 18.29
T = 9.22
E = 0.70
BK = N 14°27'31" W
AH = N 3°00'34" E

CURVE : RSBP-2
PCC = 0RSBP+18.29
X = 817210.377
Y = 545819.789
PI = 0RSBP+55.82
X = 817212.348
Y = 545857.269
PT = 0RSBP+93.29
X = 817218.060
Y = 545894.363
R = 748.00
DELTA = 5°44'42" RT
D = 7°39'36"
L = 75.00
T = 37.53
E = 0.94
BK = N 3°00'34" E
AH = N 8°45'15" E

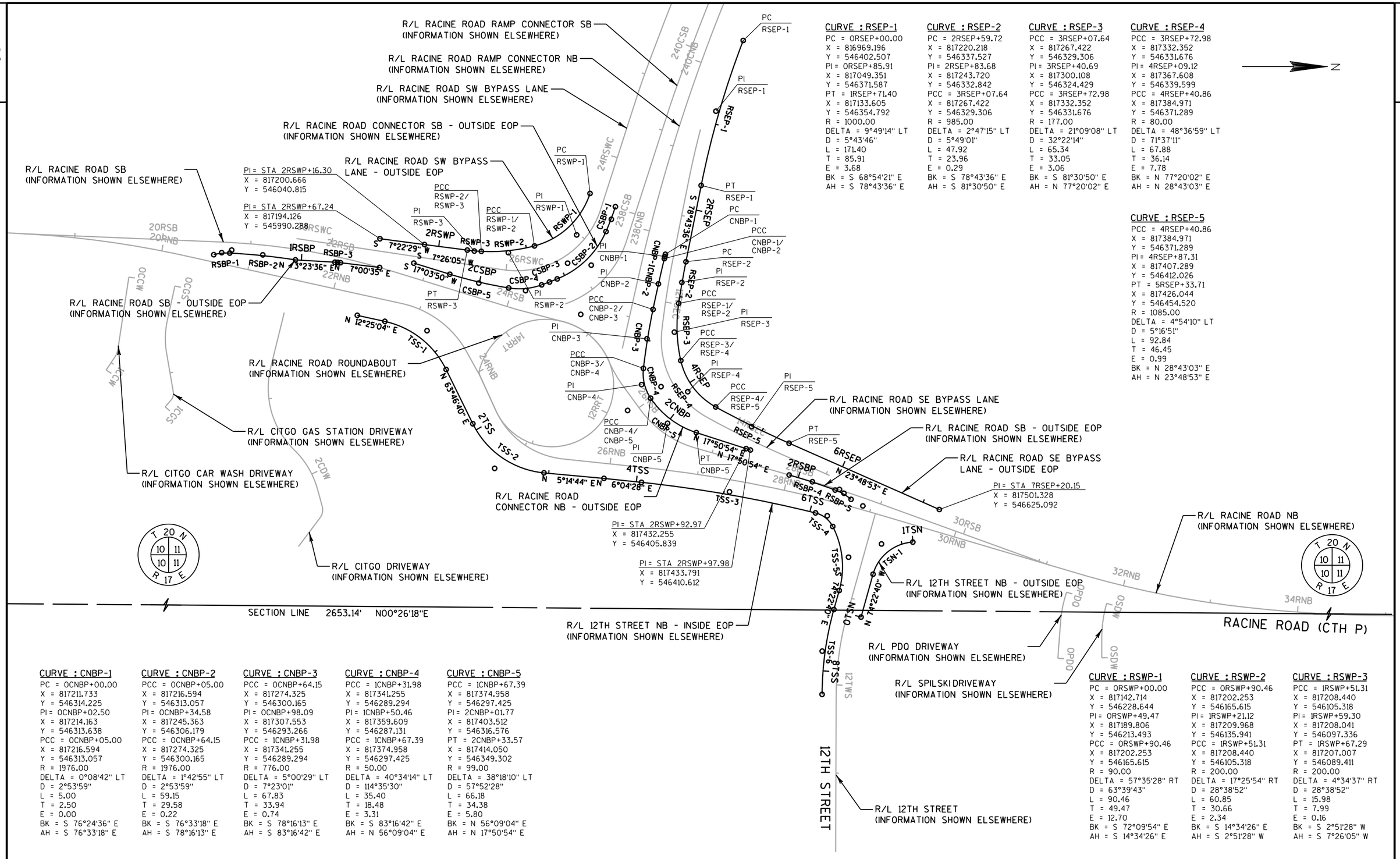
CURVE : RSBP-3
PC = 1RSBP+38.13
X = 817220.714
Y = 545939.124
PI = 1RSBP+41.29
X = 817220.901
Y = 545942.275
PT = 1RSBP+44.44
X = 817221.286
Y = 545945.409
R = 100.00
DELTA = 3°36'59" RT
D = 57°17'45"
L = 6.31
T = 3.16
E = 0.05
BK = N 3°23'36" E
AH = N 7°00'35" E

CURVE : RSBP-4
PC = 1RSBP+89.27
X = 817462.130
Y = 546454.660
PI = 2RSBP+16.75
X = 817469.734
Y = 546481.066
PCC = 2RSBP+44.20
X = 817479.225
Y = 546506.854
R = 760.00
DELTA = 4°°08'29" RT
D = 7°°32'20"
L = 54.93
T = 27.48
E = 0.50
BK = N 16°°03'52" E
AH = N 20°°12'21" E

CURVE : RSBP-5
PCC = 2RSBP+44.20
X = 817479.225
Y = 546506.854
PI = 2RSBP+54.82
X = 817482.893
Y = 546516.819
PT = 2RSBP+65.22
X = 817489.757
Y = 546524.920
R = 60.00
DELTA = 20°°04'19" RT
D = 95°°29'35"
L = 21.02
T = 10.62
E = 0.93
BK = N 20°°12'21" E
AH = N 40°°16'40" E

PROJECT NO: 1517-75-76	HWY: USH 10	COUNTY: WINNEBAGO	ALIGNMENT PLAN - EDGE OF PAVEMENT	SHEET 148	E

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CURVE : RSEP-1
PC = 0RSEP+00.00
X = 816969.196
Y = 546402.507
PI = 0RSEP+85.91
X = 817049.351
Y = 546371.587
PT = 1RSEP+71.40
X = 817133.605
Y = 546354.792
R = 1000.00
DELTA = 9°49'14" LT
D = 5°43'46"
L = 171.40
T = 85.91
E = 3.68
BK = S 68°54'21" E
AH = S 78°43'36" E

CURVE : RSEP-2
PC = 2RSEP+59.72
X = 817220.218
Y = 546337.527
PI = 2RSEP+83.68
X = 817243.720
Y = 546332.842
PCC = 3RSEP+07.64
X = 817267.422
Y = 546329.306
R = 985.00
DELTA = 2°47'15" LT
D = 5°49'01"
L = 47.92
T = 23.96
E = 0.29
BK = S 78°43'36" E
AH = S 81°30'50" E

CURVE : RSEP-3
PCC = 3RSEP+07.64
X = 817267.422
Y = 546329.306
PI = 3RSEP+40.69
X = 817300.108
Y = 546324.429
PCC = 3RSEP+72.98
X = 817332.352
Y = 546331.676
R = 177.00
DELTA = 21°09'08" LT
D = 32°22'14"
L = 65.34
T = 33.05
E = 3.06
BK = S 81°30'50" E
AH = N 77°20'02" E

CURVE : RSEP-4
PCC = 3RSEP+72.98
X = 817332.352
Y = 546331.676
PI = 4RSEP+09.12
X = 817367.608
Y = 546339.599
PCC = 4RSEP+40.86
X = 817384.971
Y = 546371.289
R = 80.00
DELTA = 48°36'59" LT
D = 71°37'11"
L = 67.88
T = 36.14
E = 7.78
BK = N 77°20'02" E
AH = N 28°43'03" E

CURVE : RSEP-5
PCC = 4RSEP+40.86
X = 817384.971
Y = 546371.289
PI = 4RSEP+87.31
X = 817407.289
Y = 546412.026
PT = 5RSEP+33.71
X = 817426.044
Y = 546454.520
R = 1085.00
DELTA = 4°54'10" LT
D = 5°16'51"
L = 92.84
T = 46.45
E = 0.99
BK = N 28°43'03" E
AH = N 23°48'53" E

CURVE : CNBP-1
PC = 0CNBP+00.00
X = 817211.733
Y = 546314.225
PI = 0CNBP+02.50
X = 817214.163
Y = 546313.638
PCC = 0CNBP+05.00
X = 817216.594
Y = 546313.057
R = 1976.00
DELTA = 0°08'42" LT
D = 2°53'59"
L = 5.00
T = 2.50
E = 0.00
BK = S 76°24'36" E
AH = S 76°33'18" E

CURVE : CNBP-2
PCC = 0CNBP+05.00
X = 817216.594
Y = 546313.057
PI = 0CNBP+34.58
X = 817245.363
Y = 546306.179
PCC = 0CNBP+64.15
X = 817274.325
Y = 546300.165
R = 1976.00
DELTA = 1°42'55" LT
D = 2°53'59"
L = 59.15
T = 29.58
E = 0.22
BK = S 76°33'18" E
AH = S 78°16'13" E

CURVE : CNBP-3
PCC = 0CNBP+64.15
X = 817274.325
Y = 546300.165
PI = 0CNBP+98.09
X = 817307.553
Y = 546293.266
PCC = 1CNBP+31.98
X = 817341.255
Y = 546289.294
R = 776.00
DELTA = 5°00'29" LT
D = 7°23'01"
L = 67.83
T = 33.94
E = 0.74
BK = S 78°16'13" E
AH = S 83°16'42" E

CURVE : CNBP-4
PCC = 1CNBP+31.98
X = 817341.255
Y = 546289.294
PI = 1CNBP+50.46
X = 817359.609
Y = 546287.131
PCC = 1CNBP+67.39
X = 817374.958
Y = 546297.425
R = 50.00
DELTA = 40°34'14" LT
D = 114°35'30"
L = 35.40
T = 18.48
E = 3.31
BK = S 83°16'42" E
AH = N 56°09'04" E

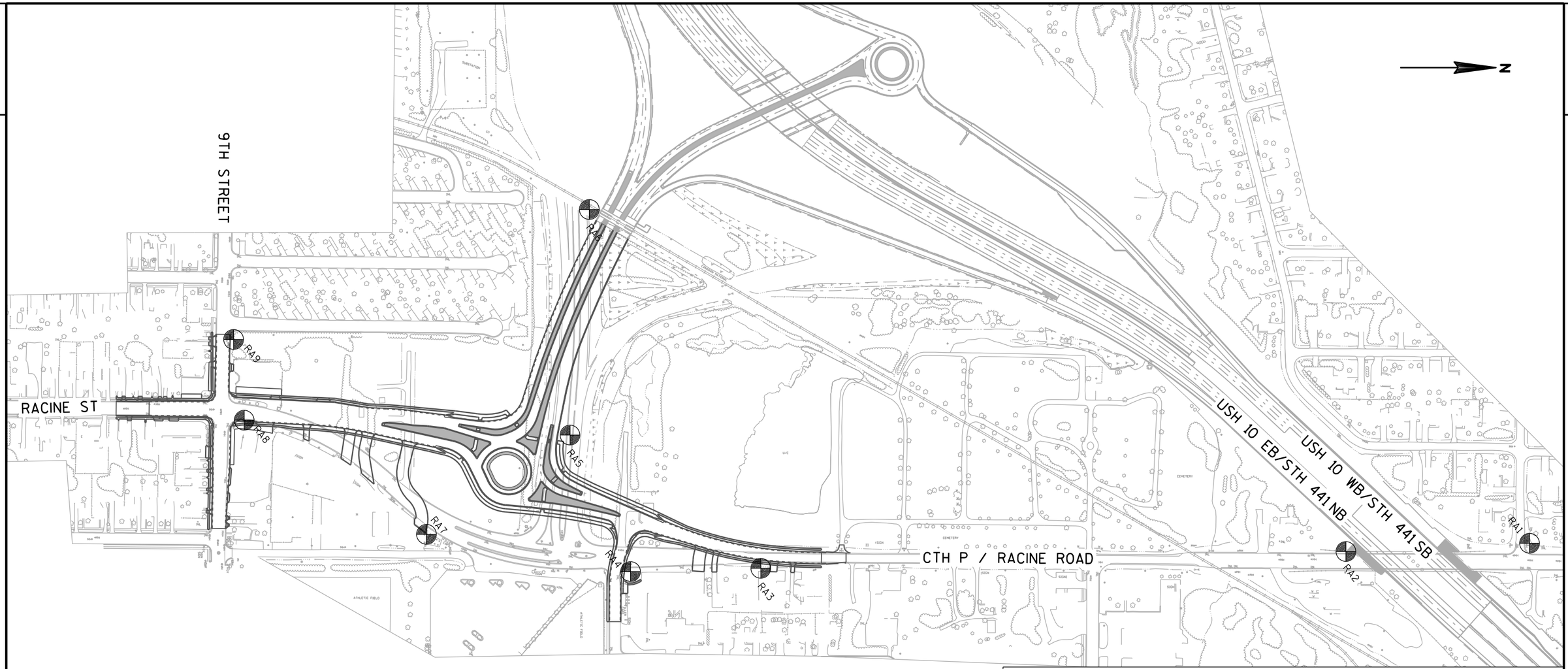
CURVE : CNBP-5
PCC = 1CNBP+67.39
X = 817374.958
Y = 546297.425
PI = 2CNBP+01.77
X = 817403.512
Y = 546316.576
PT = 2CNBP+33.57
X = 817414.050
Y = 546349.302
R = 99.00
DELTA = 38°18'10" LT
D = 57°52'28"
L = 66.18
T = 34.38
E = 5.80
BK = N 56°09'04" E
AH = N 17°50'54" E

CURVE : RSWP-1
PC = 0RSWP+00.00
X = 817142.714
Y = 546228.644
PI = 0RSWP+49.47
X = 817189.806
Y = 546213.493
PCC = 0RSWP+90.46
X = 817202.253
Y = 546165.615
R = 90.00
DELTA = 57°35'28" RT
D = 63°39'43"
L = 90.46
T = 49.47
E = 12.70
BK = S 72°09'54" E
AH = S 14°34'26" E

CURVE : RSWP-2
PCC = 0RSWP+90.46
X = 817202.253
Y = 546165.615
PI = 1RSWP+21.12
X = 817209.968
Y = 546135.941
PCC = 1RSWP+51.31
X = 817208.440
Y = 546105.318
R = 200.00
DELTA = 17°25'54" RT
D = 28°38'52"
L = 60.85
T = 30.66
E = 2.34
BK = S 14°34'26" E
AH = S 2°51'28" W

CURVE : RSWP-3
PCC = 1RSWP+51.31
X = 817208.440
Y = 546105.318
PI = 1RSWP+59.30
X = 817208.041
Y = 546097.336
PT = 1RSWP+67.29
X = 817207.007
Y = 546089.411
R = 200.00
DELTA = 4°34'37" RT
D = 28°38'52"
L = 15.98
T = 7.99
E = 0.16
BK = S 2°51'28" W
AH = S 7°26'05" W

PROJECT NO: 1517-75-76	HWY: USH 10	COUNTY: WINNEBAGO	ALIGNMENT PLAN - EDGE OF PAVEMENT	SHEET 149	E



BENCHMARKS				
BM #	NORTHING	EASTING	DESCRIPTION	ELEVATION
RA1	549282	817577	NW TAG BOLT ON FIRE HYDRANT NW QUAD OF RACINE STREET AND GORDON STREET, JUST N. OF BRIDGE OVER STH 441	761.70
RA2	548725	817602	TOP SE BOLT FOR RAIL ON SW CORNER OF PARAPET WALL ON RACINE ROAD BRIDGE OVER STH 441, PAINTED WHITE	770.80
RA3	546950	817653	NE TAG BOLT ON FIRE HYDRANT JUST S. OF DRIVEWAY TO HOUSE #1121 ON E. SIDE OF RACINE ROAD, N. OF PDQ STORE	759.90
RA4	546555	817663	NE TAG BOLT ON FIRE HYDRANT AT NE QUAD OF RACINE ROAD AND 12TH STREET	760.70
RA5	546371	817249	TOP OF NE BOLT ON SIGN BASE IN MEDIAN FOR RACINE STREET ON RAMP TO STH 441 +/- 300' W. OF RACINE STREET	761.00
RA6	546430	816565	TOP SE BOLT AT NORTHERN RR LIGHT ON HWY 441 W. ON RAMP (AT TRACK CROSSING)	759.03
RA7	545936	817550	TOP SW BOLT IN THE E. BASE OF A CITGO SIGN ON E. SIDE OF RACINE STREET N. OF 9TH STREET	762.30
RA8	545383	817204	TOP NW BOLT TO TRAFFIC SIGNAL WITH MAST ARM AT NE QUAD OF RACINE ST AND 9TH ST 45 FT W. OF "BUBBA'S PUB"	762.10
RA9	545351	816959	NW TAG BOLT ON FIRE HYDRANT AT NE QUAD OF 9TH STREET AND HAPPY VALLEY DRIVE	761.00

PROJECT NO: 1517-75-76	HWY: USH 10	COUNTY: WINNEBAGO	BENCHMARKS	SHEET 150	E

DATE 22FEB16 E S T I M A T E O F Q U A N T I T I E S

LINE NUMBER	ITEM	ITEM DESCRIPTION	UNIT	TOTAL	1517-75-76 QUANTITY
0010	201.0205	Grubbing **P**	STA	20.000	20.000
0020	203.0100	Removing Small Pipe Culverts	EACH	4.000	4.000
0030	204.0100	Removing Pavement **P**	SY	26,264.000	26,264.000
0040	204.0150	Removing Curb & Gutter **P**	LF	15.000	15.000
0050	204.0155	Removing Concrete Sidewalk **P**	SY	780.000	780.000
0060	204.0165	Removing Guardrail **P**	LF	42.000	42.000
0070	204.0170	Removing Fence **P**	LF	703.000	703.000
0080	204.0190	Removing Surface Drains	EACH	2.000	2.000
0090	204.0195	Removing Concrete Bases	EACH	30.000	30.000
0100	204.0210	Removing Manholes	EACH	12.000	12.000
0110	204.0220	Removing Inlets	EACH	25.000	25.000
0120	204.0245	Removing Storm Sewer (size) 001. 10 to 18-Inch	LF	2,135.000	2,135.000
0130	204.0245	Removing Storm Sewer (size) 002. 21 to 30-Inch	LF	1,582.000	1,582.000
0140	204.9105.S	Removing (item description) 001. Sand Barrels	LS	1.000	1.000
0150	205.0100	Excavation Common **P**	CY	56,870.000	56,870.000
0160	209.0100	Backfill Granular	CY	28.000	28.000
0170	209.0300.S	Backfill Coarse Aggregate (size) 001. No. 1	CY	79.000	79.000
0180	213.0100	Finishing Roadway (project) 001. 1517-75-76	EACH	1.000	1.000
0190	305.0110	Base Aggregate Dense 3/4-Inch	TON	120.000	120.000
0200	305.0120	Base Aggregate Dense 1 1/4-Inch	TON	11,956.000	11,956.000
0210	311.0110	Breaker Run	TON	23,928.000	23,928.000
0220	405.0100	Coloring Concrete Red	CY	167.000	167.000
0230	416.0160	Concrete Driveway 6-Inch **P**	SY	952.000	952.000
0240	416.0512	Concrete Roundabout Truck Apron 12-Inch	SY	500.000	500.000
0250	416.0620	Drilled Dowel Bars	EACH	83.000	83.000
0260	440.4410	Incentive IRI Ride	DOL	7,219.000	7,219.000
0270	455.0105	Asphaltic Material PG58-28	TON	11.000	11.000
0280	455.0605	Tack Coat	GAL	43.000	43.000
0290	460.1110	HMA Pavement Type E-10	TON	202.000	202.000
0300	460.2000	Incentive Density HMA Pavement	DOL	500.000	500.000
0310	465.0120	Asphaltic Surface Driveways and Field Entrances	TON	708.000	708.000
0320	504.0500	Concrete Masonry Retaining Walls **P**	CY	27.000	27.000
0330	505.0400	Bar Steel Reinforcement HS Structures	LB	1,527.000	1,527.000
0340	520.8000	Concrete Collars for Pipe	EACH	6.000	6.000
0350	522.1018	Apron Endwalls for Culvert Pipe Reinforced Concrete 18-Inch	EACH	1.000	1.000
0360	601.0199.S	Concrete Curb Precast	EACH	8.000	8.000
0370	601.0409	Concrete Curb & Gutter 30-Inch Type A **P**	LF	7,318.000	7,318.000
0380	601.0411	Concrete Curb & Gutter 30-Inch Type D **P**	LF	228.000	228.000
0390	601.0600	Concrete Curb Pedestrian **P**	LF	373.000	373.000
0400	602.0410	Concrete Sidewalk 5-Inch **P**	SF	33,202.000	33,202.000
0410	602.0515	Curb Ramp Detectable Warning Field Natural Patina **P**	SF	460.000	460.000
0420	602.1500	Concrete Steps	SF	13.000	13.000
0430	608.0312	Storm Sewer Pipe Reinforced Concrete Class III 12-Inch	LF	654.000	654.000
0440	608.0315	Storm Sewer Pipe Reinforced Concrete Class III 15-Inch	LF	1,512.000	1,512.000

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DATE 22FEB16 E S T I M A T E O F Q U A N T I T I E S

LINE NUMBER	ITEM	ITEM DESCRIPTION	UNIT	TOTAL	1517-75-76 QUANTITY
0450	608.0318	Storm Sewer Pipe Reinforced Concrete Class III 18-Inch	LF	1,280.000	1,280.000
0460	608.0324	Storm Sewer Pipe Reinforced Concrete Class III 24-Inch	LF	836.000	836.000
0470	608.0330	Storm Sewer Pipe Reinforced Concrete Class III 30-Inch	LF	196.000	196.000
0480	608.0342	Storm Sewer Pipe Reinforced Concrete Class III 42-Inch	LF	449.000	449.000
0490	610.0424	Storm Sewer Pipe Reinforced Concrete Horizontal Elliptical Class HE-IV 24x38-Inch	LF	162.000	162.000
0500	610.0429	Storm Sewer Pipe Reinforced Concrete Horizontal Elliptical Class HE-IV 29x45-Inch	LF	132.000	132.000
0510	611.0535	Manhole Covers Type J-Special	EACH	24.000	24.000
0520	611.0624	Inlet Covers Type H	EACH	64.000	64.000
0530	611.0639	Inlet Covers Type H-S	EACH	7.000	7.000
0540	611.0642	Inlet Covers Type MS	EACH	4.000	4.000
0550	611.0651	Inlet Covers Type S	EACH	2.000	2.000
0560	611.0652	Inlet Covers Type T	EACH	4.000	4.000
0570	611.2004	Manholes 4-FT Diameter	EACH	12.000	12.000
0580	611.2005	Manholes 5-FT Diameter	EACH	8.000	8.000
0590	611.2006	Manholes 6-FT Diameter	EACH	6.000	6.000
0600	611.2007	Manholes 7-FT Diameter	EACH	1.000	1.000
0610	611.2008	Manholes 8-FT Diameter	EACH	3.000	3.000
0620	611.3004	Inlets 4-FT Diameter	EACH	31.000	31.000
0630	611.3230	Inlets 2x3-FT	EACH	37.000	37.000
0640	611.3901	Inlets Median 1 Grate	EACH	4.000	4.000
0650	611.9800.S	Pipe Grates	EACH	1.000	1.000
0660	612.0406	Pipe Underdrain Wrapped 6-Inch	LF	2,991.000	2,991.000
0670	616.0206	Fence Chain Link 6-FT	LF	302.000	302.000
0680	616.0700.S	Fence Safety	LF	685.000	685.000
0690	618.0100	Maintenance And Repair of Haul Roads (project) 001. 1517-75-76	EACH	1.000	1.000
0700	619.1000	Mobilization	EACH	1.000	1.000
0710	620.0300	Concrete Median Sloped Nose **P**	SF	521.000	521.000
0720	624.0100	Water	MGAL	120.000	120.000
0730	625.0100	Topsoil	SY	1,061.000	1,061.000
0740	625.0500	Salvaged Topsoil	SY	35,613.000	35,613.000
0750	627.0200	Mulching	SY	25,843.000	25,843.000
0760	628.1104	Erosion Bales	EACH	20.000	20.000
0770	628.1504	Silt Fence	LF	854.000	854.000
0780	628.1520	Silt Fence Maintenance	LF	854.000	854.000
0790	628.1905	Mobilizations Erosion Control	EACH	5.000	5.000
0800	628.1910	Mobilizations Emergency Erosion Control	EACH	4.000	4.000
0810	628.2006	Erosion Mat Urban Class I Type A	SY	16,670.000	16,670.000
0820	628.7005	Inlet Protection Type A	EACH	101.000	101.000
0830	628.7015	Inlet Protection Type C	EACH	55.000	55.000
0840	628.7020	Inlet Protection Type D	EACH	30.000	30.000
0850	628.7504	Temporary Ditch Checks	LF	261.000	261.000
0860	628.7555	Culvert Pipe Checks	EACH	15.000	15.000
0870	628.7560	Tracking Pads	EACH	2.000	2.000
0880	629.0210	Fertilizer Type B	CWT	23.700	23.700
0890	630.0120	Seeding Mixture No. 20	LB	950.000	950.000
0900	630.0140	Seeding Mixture No. 40	LB	50.000	50.000

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DATE 22FEB16 E S T I M A T E O F Q U A N T I T I E S

LINE NUMBER	ITEM	ITEM DESCRIPTION	UNIT	TOTAL	1517-75-76 QUANTITY
0910	630.0200	Seeding Temporary	LB	494.000	494.000
0920	632.0101	Trees (species) (size) (root) 001. Deciduous Tree (shade) Maple, Autumn Blaze	EACH	8.000	8.000
0930	632.0101	Trees (species) (size) (root) 003. Deciduous Tree (shade) Oak, Swamp White	EACH	7.000	7.000
0940	632.9101	Landscape Planting Surveillance and Care Cycles	EACH	24.000	24.000
0950	633.5200	Markers Culvert End	EACH	1.000	1.000
0960	634.0612	Posts Wood 4x6-Inch X 12-FT	EACH	18.000	18.000
0970	634.0614	Posts Wood 4x6-Inch X 14-FT	EACH	13.000	13.000
0980	634.0616	Posts Wood 4x6-Inch X 16-FT	EACH	18.000	18.000
0990	634.0618	Posts Wood 4x6-Inch X 18-FT	EACH	10.000	10.000
1000	637.1220	Signs Type I Reflective SH	SF	204.000	204.000
1010	637.2210	Signs Type II Reflective H	SF	490.460	490.460
1020	637.2215	Signs Type II Reflective H Folding	SF	45.280	45.280
1030	637.2230	Signs Type II Reflective F	SF	88.140	88.140
1040	638.2601	Removing Signs Type I	EACH	1.000	1.000
1050	638.2602	Removing Signs Type II	EACH	53.000	53.000
1060	638.3000	Removing Small Sign Supports	EACH	39.000	39.000
1070	641.8100	Overhead Sign Support (structure) 001. S-70-213	LS	1.000	1.000
1080	641.8100	Overhead Sign Support (structure) 002. S-70-214	LS	1.000	1.000
1090	641.8100	Overhead Sign Support (structure) 003. S-70-215	LS	1.000	1.000
1100	641.8100	Overhead Sign Support (structure) 004. S-70-216	LS	1.000	1.000
1110	642.5401	Field Office Type D	EACH	1.000	1.000
1120	643.0200	Traffic Control Surveillance and Maintenance (project) 001. 1517-75-76	DAY	100.000	100.000
1130	643.0300	Traffic Control Drums	DAY	6,044.000	6,044.000
1140	643.0410	Traffic Control Barricades Type II	DAY	82.000	82.000
1150	643.0420	Traffic Control Barricades Type III	DAY	5,040.000	5,040.000
1160	643.0705	Traffic Control Warning Lights Type A	DAY	10,280.000	10,280.000
1170	643.0715	Traffic Control Warning Lights Type C	DAY	1,000.000	1,000.000
1180	643.0900	Traffic Control Signs	DAY	6,259.000	6,259.000
1190	643.1000	Traffic Control Signs Fixed Message	SF	33.600	33.600
1200	643.1050	Traffic Control Signs PCMS	DAY	48.000	48.000
1210	645.0111	Geotextile Fabric Type DF Schedule A **P**	SY	65.000	65.000
1220	646.0106	Pavement Marking Epoxy 4-Inch	LF	7,458.000	7,458.000
1230	646.0126	Pavement Marking Epoxy 8-Inch	LF	1,304.000	1,304.000
1240	646.0156	Pavement Marking Epoxy 18-Inch	LF	80.000	80.000
1250	646.0690.S	Removing Pavement Markings Water Blasting	LF	200.000	200.000
1260	646.0841.S	Pavement Marking Grooved Wet Reflective Contrast Tape 4-Inch	LF	410.000	410.000
1270	646.0843.S	Pavement Marking Grooved Wet Reflective Contrast Tape 8-Inch	LF	1,459.000	1,459.000
1280	647.0110	Pavement Marking Railroad Crossings Epoxy	EACH	1.000	1.000
1290	647.0206	Pavement Marking Arrows Bike Lane Epoxy	EACH	4.000	4.000
1300	647.0306	Pavement Marking Symbols Bike Lane Epoxy	EACH	4.000	4.000
1310	647.0406	Pavement Marking Words Bike Lane Epoxy	EACH	6.000	6.000

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DATE 22FEB16 E S T I M A T E O F Q U A N T I T I E S

LINE NUMBER	ITEM	ITEM DESCRIPTION	UNIT	TOTAL	1517-75-76 QUANTITY
1320	647.0566	Pavement Marking Stop Line Epoxy 18-Inch	LF	152.000	152.000
1330	647.0606	Pavement Marking Island Nose Epoxy	EACH	2.000	2.000
1340	647.0726	Pavement Marking Diagonal Epoxy 12-Inch	LF	143.000	143.000
1350	647.0766	Pavement Marking Crosswalk Epoxy 6-Inch	LF	600.000	600.000
1360	649.0400	Temporary Pavement Marking Removable Tape 4-Inch	LF	200.000	200.000
1370	652.0225	Conduit Rigid Nonmetallic Schedule 40 2-Inch **P**	LF	4,609.000	4,609.000
1380	652.0235	Conduit Rigid Nonmetallic Schedule 40 3-Inch **P**	LF	1,725.000	1,725.000
1390	652.0800	Conduit Loop Detector **P**	LF	1,034.000	1,034.000
1400	653.0105	Pull Boxes Steel 12x24-Inch	EACH	18.000	18.000
1410	653.0135	Pull Boxes Steel 24x36-Inch	EACH	4.000	4.000
1420	653.0140	Pull Boxes Steel 24x42-Inch	EACH	8.000	8.000
1430	653.0905	Removing Pull Boxes	EACH	18.000	18.000
1440	654.0101	Concrete Bases Type 1	EACH	4.000	4.000
1450	654.0102	Concrete Bases Type 2	EACH	4.000	4.000
1460	654.0105	Concrete Bases Type 5	EACH	25.000	25.000
1470	654.0215	Concrete Control Cabinet Bases Type 9	EACH	1.000	1.000
1480	654.0230	Concrete Control Cabinet Bases Type L30	EACH	2.000	2.000
1490	655.0230	Cable Traffic Signal 5-14 AWG **P**	LF	264.000	264.000
1500	655.0240	Cable Traffic Signal 7-14 AWG **P**	LF	284.000	284.000
1510	655.0260	Cable Traffic Signal 12-14 AWG **P**	LF	1,332.000	1,332.000
1520	655.0305	Cable Type UF 2-12 AWG Grounded	LF	536.000	536.000
1530	655.0515	Electrical Wire Traffic Signals 10 AWG **P**	LF	1,057.000	1,057.000
1540	655.0610	Electrical Wire Lighting 12 AWG **P**	LF	3,690.000	3,690.000
1550	655.0620	Electrical Wire Lighting 8 AWG **P**	LF	20,416.000	20,416.000
1560	655.0625	Electrical Wire Lighting 6 AWG **P**	LF	9,764.000	9,764.000
1570	655.0700	Loop Detector Lead In Cable **P**	LF	2,364.000	2,364.000
1580	655.0800	Loop Detector Wire **P**	LF	2,548.000	2,548.000
1590	656.0200	Electrical Service Meter Breaker Pedestal (location) 001. CB-600	LS	1.000	1.000
1600	656.0200	Electrical Service Meter Breaker Pedestal (location) 002. CB-700	LS	1.000	1.000
1610	656.0200	Electrical Service Meter Breaker Pedestal (location) 003. Racine St & 9th St	LS	1.000	1.000
1620	656.0500	Electrical Service Breaker Disconnect Box (location) 001. Racine St & 9th St	LS	1.000	1.000
1630	657.0100	Pedestal Bases	EACH	4.000	4.000
1640	657.0255	Transformer Bases Breakaway 11 1/2-Inch Bolt Circle	EACH	20.000	20.000
1650	657.0310	Poles Type 3	EACH	4.000	4.000
1660	657.0322	Poles Type 5-Aluminum	EACH	16.000	16.000
1670	657.0425	Traffic Signal Standards Aluminum 15-FT	EACH	4.000	4.000
1680	657.0585	Trombone Arms 15-FT	EACH	1.000	1.000
1690	657.0595	Trombone Arms 25-FT	EACH	3.000	3.000
1700	657.0709	Luminaire Arms Truss Type 4-Inch Clamp 12-FT	EACH	4.000	4.000
1710	657.0710	Luminaire Arms Truss Type 4 1/2-Inch Clamp 12-FT	EACH	17.000	17.000
1720	658.0110	Traffic Signal Face 3-12 Inch Vertical	EACH	8.000	8.000
1730	658.0120	Traffic Signal Face 5-12 Inch Vertical	EACH	4.000	4.000
1740	658.0165	Traffic Signal Face 5-12 Inch Horizontal	EACH	4.000	4.000
1750	658.0215	Backplates Signal Face 3 Section 12-Inch	EACH	8.000	8.000

3

DATE 22FEB16 E S T I M A T E O F Q U A N T I T I E S

LINE NUMBER	ITEM	ITEM DESCRIPTION	UNIT	TOTAL	1517-75-76 QUANTITY
1760	658.0225	Backplates Signal Face 5 Section 12-Inch	EACH	8.000	8.000
1770	658.0416	Pedestrian Signal Face 16-Inch	EACH	8.000	8.000
1780	658.0500	Pedestrian Push Buttons	EACH	8.000	8.000
1790	658.0600	Led Modules 12-Inch Red Ball	EACH	16.000	16.000
1800	658.0605	Led Modules 12-Inch Yellow Ball	EACH	16.000	16.000
1810	658.0610	Led Modules 12-Inch Green Ball	EACH	16.000	16.000
1820	658.0620	Led Modules 12-Inch Yellow Arrow	EACH	8.000	8.000
1830	658.0625	Led Modules 12-Inch Green Arrow	EACH	8.000	8.000
1840	658.0635	Led Modules Pedestrian Countdown Timer 16-Inch	EACH	8.000	8.000
1850	658.5069	Signal Mounting Hardware (location) 001. Racine St & 9th St	LS	1.000	1.000
1860	659.1120	Luminaires Utility LED B	EACH	21.000	21.000
1870	659.2130	Lighting Control Cabinets 120/240 30-Inch	EACH	2.000	2.000
1880	690.0150	Sawing Asphalt	LF	933.000	933.000
1890	690.0250	Sawing Concrete	LF	490.000	490.000
1900	715.0415	Incentive Strength Concrete Pavement	DOL	11,530.000	11,530.000
1910	ASP.1T0A	On-the-Job Training Apprentice at $5. 00/HR	HRS	2,400.000	2,400.000
1920	ASP.1T0G	On-the-Job Training Graduate at $5.00/HR	HRS	2,100.000	2,100.000
1930	SPV.0035	Special 501. Planting Mix	CY	611.000	611.000
1940	SPV.0060	Special 001. Pavt Marking Grooved Contrast Preformed Thermoplastic Arrows, Type 1	EACH	1.000	1.000
1950	SPV.0060	Special 002. Pavt Marking Grooved Contrast Preformed Thermoplastic Arrows, Type 2R	EACH	4.000	4.000
1960	SPV.0060	Special 003. Pavt Marking Grooved Contrast Preformed Thermoplastic Arrows, Type 2	EACH	17.000	17.000
1970	SPV.0060	Special 004. Pavt Marking Grooved Contrast Preformed Thermoplastic Arrows, Type 3R	EACH	1.000	1.000
1980	SPV.0060	Special 005. Pavt Marking Grooved Contrast Preformed Thermoplastic Arrows, Type 3	EACH	3.000	3.000
1990	SPV.0060	Special 006. Pavt Marking Grooved Contrast Preformed Thermoplastic Words	EACH	17.000	17.000
2000	SPV.0060	Special 100. Inlet 2x2.5-FT Special	EACH	4.000	4.000
2010	SPV.0060	Special 353. Light Pole Special	EACH	9.000	9.000
2020	SPV.0060	Special 354. Pull Box Non-Conductive 24x42 Inch	EACH	25.000	25.000
2030	SPV.0060	Special 400. Remove and Deliver Existing Ramp Gate	EACH	2.000	2.000
2040	SPV.0060	Special 450. Traffic Signal Controller & Cabinet (Racine St & 9th St)	EACH	1.000	1.000
2050	SPV.0060	Special 650. Adjusting Sanitary Manhole Covers	EACH	8.000	8.000
2060	SPV.0060	Special 651. Adjusting Water Valves	EACH	11.000	11.000
2070	SPV.0060	Special 652. Adjusting Water Curb Stop	EACH	3.000	3.000
2080	SPV.0075	Special 001. Street Sweeping	HRS	50.000	50.000
2090	SPV.0090	Special 002. Concrete Curb & Gutter 4-Inch Sloped 36-Inch Type R Full Depth **P**	LF	450.000	450.000
2100	SPV.0090	Special 003. Concrete Curb & Gutter Integral 30-Inch Special **P**	LF	4,548.000	4,548.000

3

DATE 22FEB16 E S T I M A T E O F Q U A N T I T I E S

LINE NUMBER	ITEM	ITEM DESCRIPTION	UNIT	TOTAL	1517-75-76 QUANTITY
2110	SPV.0090	Special 004. Concrete Curb & Gutter 18-Inch Type A Reject Full Depth **P**	LF	367.000	367.000
2120	SPV.0090	Special 005. Pavt Marking Grooved Contrast Preformed Thermoplastic Crosswalk 6-Inch	LF	233.000	233.000
2130	SPV.0090	Special 007. Railing	LF	120.000	120.000
2140	SPV.0105	Special 001. Removing Sign Structure (S-70-13)	LS	1.000	1.000
2150	SPV.0105	Special 002. Survey Project 1517-75-76	LS	1.000	1.000
2160	SPV.0105	Special 003. Concrete Pavement Joint Layout	LS	1.000	1.000
2170	SPV.0105	Special 004. Temporary Signals Racine St & 9th St	LS	1.000	1.000
2180	SPV.0105	Special 451. Remove and Salvage Existing Traffic Signals (Racine St & 9th St)	LS	1.000	1.000
2190	SPV.0105	Special 452. Remove and Salvage Existing Traffic Signals (Racine Rd & Connectors)	LS	1.000	1.000
2200	SPV.0120	Special 001. Water for Seeded Areas	MGAL	784.000	784.000
2210	SPV.0165	Special 001. Permanent Covering Type II Signs	SF	59.060	59.060
2220	SPV.0165	Special 002. Permanent Covering Type I Signs	SF	60.000	60.000
2230	SPV.0180	Special 001. Colored and Stamped Concrete, 5-Inch	SY	4,113.000	4,113.000
2240	SPV.0180	Special 002. Colored Concrete Pavement 10-Inch	SY	230.000	230.000
2250	SPV.0180	Special 003. Modified High Performance Concrete (HPC) Pavement 10-Inch **P**	SY	23,051.000	23,051.000
2260	SPV.0195	Special 001. Cold Patch	TON	5.000	5.000

3

RACINE CONNECTOR AND RACINE ROAD INTERSECTION REMOVALS

INTERCHANGE	LOCATION	204.0195* REMOVING CONCRETE BASES EACH	653.0905* REMOVING PULL BOXES EACH	SPV.0060.400 REMOVE AND DELIVER EXISTING RAMP GATE EACH	COMMENTS
PROJECT 1517-75-76					
RACINE CONNECTOR & RACINE	LT/RT	13	9	--	EXISTING SIGNALS
	LT/RT	3	2	2	EXISTING RAMP GATE
PROJECT 1517-75-76 TOTAL		16	11	2	

* ADDITIONAL QUANTITIES FOUND ELSEWHERE

REMOVING SMALL PIPE CULVERTS

ROADWAY	STATION	OFFSET	203.0100 REMOVING SMALL PIPE CULVERTS EACH	REMARKS
PROJECT 1517-75-76				
RACINE ROAD	21RNB+09 - 21RNB+15	LT	1	27 LF, CORRUGATED METAL
	33RNB+50 - 33RNB+75	RT	1	25 LF, CORRUGATED METAL
	34RNB+09 - 34RNB+27	RT	1	18 LF, CORRUGATED METAL
	35RNB+48 - 35RNB+78	LT	1	29 LF, CORRUGATED METAL
PROJECT 1517-75-76 TOTAL			4	

GRUBBING

ROADWAY	STATION BEGIN		STATION END	OFFSET	201.0205 STA
PROJECT 1517-75-76					
RACINE ROAD	16RNB+27	-	17RNB+49	LT	2
	19RNB+20	-	21RNB+33	RT/LT	3
	23RNB+38	-	26RNB+09	RT/LT	4
	24RNB+56	-	25RNB+16	RT	2
	27RNB+70	-	28RNB+75	RT/LT	2
	29RNB+04	-	30RNB+16	RT/LT	2
	35RNB+20	-	35RNB+35	RT	1
RACINE ROAD CONNECTOR	241CNB+91	-	242CNB+89	RT	2
	243CNB+45	-	243CNB+94	RT	1
9TH STREET	18NS+70	-	18NS+83	LT	1
PROJECT 1517-75-76 TOTAL					20

REMOVING PAVEMENT

ROADWAY	STATION		204.0100 REMOVING PAVEMENT SY
PROJECT 1517-75-76			
RACINE ROAD NB	12RNB+50 - 15RNB+90	RT/LT	1,777
	13RNB+16 - 13RNB+29	LT	7
	13RNB+77 - 13RNB+87	LT	6
	13RNB+93 - 14RNB+04	LT	7
	15RNB+90 - 35RNB+77	RT/LT	12,776
	26RNB+00 - 27RNB+15	RT/LT	1,569
	27RNB+15 - 27RNB+92	RT/LT	1,017
RACINE ROAD CONNECTOR	236CNB+63 - 244CNB+21	RT/LT	6,069
9TH STREET	13NS+31 - 15NS+41	RT/LT	1,163
	13NS+39 - 13NS+49	RT	7
	15NS+80 - 19NS+20	RT/LT	1,851
	17NS+42 - 17NS+52	RT	6
	18NS+00 - 18NS+08	RT	5
	18NS+66 - 18NS+74	RT	4
PROJECT 1517-75-76 TOTAL			26,264

REMOVING CURB & GUTTER

ROADWAY	STATION	OFFSET	204.0150 REMOVING CURB & GUTTER LF
PROJECT 1517-75-76			
RACINE ROAD	16RNB+10 - 16RNB+14	LT	15
PROJECT 1517-75-76 TOTAL			15

REMOVING CONCRETE SIDEWALK

ROADWAY	STATION		204.0155 REMOVING CONCRETE SIDEWALK SY
PROJECT 1517-75-76			
RACINE ROAD NB	12RNB+50 -15RNB+43	LT	175
	12RNB+50 - 15RNB+48	RT	191
	27RNB+06 - 27RNB+16	RT	11
9TH STREET	13NS+23 - 15NS+19	RT	111
	16NS+05 - 19NS+23	RT	180
12TH STREET	11TWS+61 - 13TWS+14	RT	112
PROJECT 1517-75-76 TOTAL			780

REMOVING GUARDRAIL

ROADWAY	STATION	OFFSET	204.0165 REMOVING GUARDRAIL LF
PROJECT 1517-75-76			
RACINE ROAD	17RNB+50 - 17RNB+50	LT	42
PROJECT 1517-75-76 TOTAL			42

REMOVING FENCE

ROADWAY	STATION	OFFSET	204.0170 REMOVING FENCE LF
STAGE 2A			
RACINE ROAD	23RNB+27 - 25RNB+75	RT/LT	503
	28RNB+05 - 28RNB+39	RT/LT	167
9TH STREET	13NS+66 - 13NS+73	RT	15
	13NS+95 - 14NS+04	RT	17
PROJECT 1517-75-76 TOTAL			703

REMOVING DRAINAGE ITEMS

ROADWAY	STATION	OFFSET	204.0210 REMOVING MANHOLES EACH	204.0220 REMOVING INLETS EACH
PROJECT 1517-75-76				
RACINE ROAD	13RNB+46	21.8' RT	--	1
	13RNB+47	20.4' LT	--	1
	13RNB+66	13.2' LT	1	--
	15RNB+18	23.2' LT	--	1
	15RNB+23	24.5' RT	--	1
	15RNB+27	13.5' LT	1	--
	15RNB+81	16.7' LT	1	--
	18RNB+26	63.9' RT	--	1
	18RNB+31	22.4' RT	1	--
	18RNB+41	20.7' RT	1	--
	21RNB+10	187.5' RT	--	1
	21RNB+29	149.6' RT	1	--
	21RNB+31	145.0' RT	--	1
	25RNB+12	187.7' RT	--	1
	25RNB+19	112.0' RT	--	1
	25RNB+20	132.7' RT	1	--
	25RNB+20	141.4' RT	--	1
	26RNB+70	150.0' RT	--	1
	26RNB+91	35.1' LT	--	1
	27RNB+10	15.5' LT	--	1
	27RNB+52	143.4' RT	--	1
	27RNB+60	186.8' RT	--	1
	29RNB+00	97.5' RT	1	--
	30RNB+89	38.5' RT	--	1
	30RNB+91	45.8' RT	1	--
	31RNB+03	86.5' RT	--	1
	31RNB+93	12.8' RT	1	--
RACINE ROAD CONNECTOR	237CNB+56	78.4' RT	--	1
	238CNB+95	74.3' RT	--	1
9TH STREET	13NS+40	8.2' LT	1	--
	13NS+40	17.1' LT	--	1
	16NS+09	26.6' RT	--	1
	16NS+09	21.7' LT	--	1
	16NS+26	6.7' LT	1	--
12TH STREET	11TWS+69	18.2' LT	--	1
	11TWS+72	12.0' LT	--	1
	11TWS+85	19.8' RT	--	1
PROJECT 1517-75-76 TOTAL			12	25

REMOVING SURFACE DRAINS

ROADWAY	STATION	OFFSET	204.0190 REMOVING SURFACE DRAINS EACH
PROJECT 1517-75-76			
RACINE ROAD CONNECTOR	26RNB+29	RT	1
	27RNB+57	RT	1
PROJECT 1517-75-76 TOTAL			2

REMOVING SAND BARRELS

ROADWAY	204.9105.S REMOVING SAND BARRELS LS
RACINE ROAD CONNECTOR	1
PROJECT 1517-75-76 TOTAL	1

NOTE: REMOVING TOTAL 33 SAND BARRELS AT 3 LOCATIONS

FINISHING ROADWAY (PROJECT 1517-75-76)

ROADWAY	213.0100 FINISHING ROADWAY 1517-75-76 EACH
PROJECT 1517-75-76	1
PROJECT 1517-75-76 TOTAL	1

REMOVING STORM SEWER

ROADWAY	STATION	OFFSET	204.0245.01 REMOVING STORM SEWER 10-INCH - 18-INCH LF	204.0245.02 REMOVING STORM SEWER 21-INCH - 30-INCH LF
PROJECT 1517-75-76				
RACINE ROAD	13RNB+46 - 13RNB+47	RT/LT	42	--
	13RNB+48 - 13RNB+64	LT	--	20
	13RNB+66 - 15RNB+27	LT	--	162
	15RNB+17 - 15RNB+27	LT	14	--
	15RNB+23 - 15RNB+27	RT/LT	38	--
	15RNB+27 - 15RNB+81	LT	54	--
	15RNB+81 - 18RNB+31	RT/LT	253	--
	18RNB+26 - 18RNB+31	RT	42	--
	18RNB+31 - 18RNB+41	RT	10	--
	18RNB+31 - 21RNB+29	RT	--	314
	21RNB+10 - 21RNB+29	RT	42	--
	21RNB+29 - 21RNB+31	RT	--	5
	21RNB+29 - 25RNB+20	RT	340	--
	25RNB+12 - 25RNB+20	RT	51	--
	25RNB+19 - 25RNB+20	RT	21	--
	25RNB+20 - 25RNB+20	RT	9	--
	26RNB+70 - 27RNB+52	RT	75	--
	26RNB+81 - 26RNB+91	LT	180	--
	26RNB+91 - 27RNB+10	LT	27	--
	27RNB+10 - 27RNB+54	RT/LT	164	--
	27RNB+52 - 27RNB+60	RT	44	--
	29RNB+00 - 30RNB+91	RT	198	--
	30RNB+89 - 30RNB+91	RT	8	--
	30RNB+91 - 31RNB+03	RT	42	--
	30RNB+91 - 31RNB+93	RT	--	107
	31RNB+93 - 35RNB+77	RT/LT	--	385
RACINE ROAD CONNECTOR	237CNB+56 - 238CNB+95	RT	134	--
	238CNB+71 - 238CNB+95	RT	58	--
	238CNB+95 - 239CNB+33	RT/LT	104	--
9TH STREET	13NS+31 - 13NS+40	LT	--	9
	13NS+40 - 13NS+41	LT	9	--
	13NS+40 - 15NS+45	LT	--	205
	15NS+45 - 16NS+26	LT	--	81
	16NS+09 - 16NS+26	RT	37	--
	16NS+09 - 16NS+26	LT	23	--
	16NS+26 - 19NS+20	LT	--	294
12TH STREET	10TWS+97 - 11TWS+69	RT/LT	75	--
	11TWS+69 - 11TWS+72	LT	7	--
	11TWS+72 - 11TWS+85	RT/LT	35	--
PROJECT 1517-75-76 TOTAL			2,135	1,582

Category	Division	From/To Station	Location	Excavation Common (CY) (1) 205.0100		Fill (CY)	Expanded Fill (CY) 1.43 Expansion Factor	Mass Ordinate +/- (4)	Comment:
				CUT (CY) (2)	EBS (CY) (3)				
1000	1	12RNB+50 - 18RNB+00	RNB	3,827	0	20	28	3,798	
		28RNB+00 - 35RNB+77	RNB	6,976	0	528	755	6,221	
		28RSB+00 - 28RSB+65	RSB	338	0	3	4	334	
		13NS+31 - 15NS+37	NS	1,036	0	46	66	970	
		15NS+86 - 19NS+20	NS	1,991	0	45	65	1,927	
		10TWS+17 - 13TWS+14	TWS	1,702	0	52	75	1,627	
		VALLEY MUFFLER RETAINING WALL		46	0	0	0	46	
		UNDISTRIBUTED		0	1,590	0	0	0	
	Project 1517-75-76 - Division 1 Subtotal			15,916	1,590	694	993	14,877	
	Project 1517-75-76 - Division 1 Total			17,506					
1000	2	18RNB+00 - 23RNB+74	RNB	7,820	0	80	115	7,705	
		25RNB+82 - 28RNB+00	RNB	509	0	908	1,298	-789	
		20RSB+61 - 24RSB+07	RSB	3,005	0	0	0	3,005	
		25RSB+98 - 28RSB+00	RSB	571	0	117	167	404	
		236CNB+63 - 243CNB+93	CNB	5,575	0	480	687	4,888	
		236CSB+65 - 243CSB+83	CSB	2,420	0	223	319	2,101	
		18RSWC+63 - 26RSWC+99	RSWC	5,043	0	980	1,401	3,642	
		11RSEC+52 - 14RSEC+04	RSEC	2,834	0	89	127	2,707	
		10RRT+00 - 14RRT+61	RRT	3,764	0	293	420	3,345	
		CENTER ISLAND FILL	RRT	0	0	665	951	-951	
		0CCW+10 - 0CCW+92	CCW	151	0	7	10	142	
		0CGS+10 - 1CGS+32	CGS	460	0	13	18	442	
		0CDW+07 - 2CDW+74	CDW	1,289	0	11	15	1,274	
		0PDQ+05 - 0PDQ+68	PDQ	157	0	1	1	156	
		0SDW+05 - 0SDW+57	SDW	75	0	0	0	75	
		0VMB+10 - 1VMB+48	VMB	72	0	0	0	72	
		18RNB+50 - 19RNB+35, RIGHT (5)	EX CTH P	126	0	0	0	0	
		23RNB+25 - 28RNB+75, RIGHT (5)	EX CTH P	1,912	0	0	0	0	
		UNDISTRIBUTED		0	3,580	0	0	0	
	Project 1517-75-76 - Division 2 Subtotal			35,784	3,580	3,866	5,529	28,218	
	Project 1517-75-76 - Division 2 Total			39,364					
	Project 1517-75-76 Totals			**56,870**					

1) Excavation Common = Cut + EBS Excavation. Item number 205.0100.

2) Cut volume includes concrete and asphaltic surface material.

3) EBS Excavation to be backfilled with roadway embankment unless otherwise noted in plans.

4) The Mass Ordinate is calculated by division. A positive quantity indicates an excess of material within the Division and a negative quantity indicates a shortage of material within the Division. Structure Excavation and EBS is not included in this calculation.

5) Accounts for additional cut required to remove existing CTH P between stations specified. Assumes 12-inch depth and includes splitter islands.

VALLEY MUFFLER RETAINING WALL

ROADWAY	START STATION	START OFFSET	FINISH STATION	FINISH OFFSET	209.0100 BACKFILL GRANULAR CY	504.0500 CONCRETE MASONRY RETAINING WALLS CY	505.0400 BAR STEEL REINFORCEMENT HS STRUCTURES LB	SPV.0090.007 RAILING LF	645.0111 GEOTEXTILE FABRIC TYPE DF SCHEDULE A SY
PROJECT 1517-75-76									
RACINE ROAD NB	16RNB+10	56' LT	17RNB+55	56' LT	28	27	1,527	120	65
PROJECT 1517-75-76 TOTAL					28	27	1,527	120	65

SUBSTRUCTURE

ROADWAY	STATION FROM	STATION TO	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	624.0100 WATER MGAL	COMMENTS
STAGE 1A								
RACINE ROAD NB/SB	12RNB+50	13RNB+50	LT/RT	--	338	332	--	
	13RNB+50	15RNB+74	LT/RT	--	448	806	--	
	15RNB+74	16RNB+50	LT/RT	--	--	386		
	15RNB+74	18RNB+00	LT/RT	--	653	--	--	
	16RNB+50	18RNB+00	LT/RT	--	--	1,053		
	28RNB+75	35RNB+02	LT/RT	--	1,059	2,543	--	
	35RNB+02	35RNB+77	LT/RT	36	229	364	--	
RACINE ROAD NB	16RNB+08	18RNB+22	RT	--	69	--	--	SIDEWALK AND DRIVEWAYS
	16RNB+09	17RNB+48	LT	--	89	--	--	SIDEWALK AND DRIVEWAYS
	28RNB+00	28RNB+75	LT/RT	--	66	158	--	
	28RNB+00	35RNB+02	RT	36	189	--	--	SIDEWALK AND DRIVEWAYS
RACINE ROAD SB	12RNB+50	13RNB+36	LT	--	62	--	--	SIDEWALK AND DRIVEWAYS
	27RSB+90	28RSB+67	LT/RT	--	119	285	--	
	27RSB+90	35RNB+02	LT	--	84	--	--	SIDEWALK AND DRIVEWAYS
9TH STREET	13NS+23	15NS+24	RT	--	52	--	--	SIDEWALK AND DRIVEWAYS
	13NS+31	15NS+37	LT/RT	--	366	660	--	
	14NB+15	14NS+46	LT	--	7	--	--	SIDEWALK AND DRIVEWAYS
	15NS+86	19NS+20	LT/RT	--	70	1,259	--	
	16NS+08	19NB+18	LT	15	46	--	--	SIDEWALK AND DRIVEWAYS
12TH STREET	10TWS+17	13TWS+14	LT/RT	--	529	--	--	
	10TWS+17	10TWS+50	LT/RT	--	--	244		
	10TWS+30	13TWS+14	LT/RT	--	76	--	--	SIDEWALK AND DRIVEWAYS
	10TWS+50	13TWS+14	LT/RT	--	--	769		
STAGE 1A SUBTOTALS				87	4,551	8,859	--	

SUBSTRUCTURE (CONT.)

ROADWAY	STATION FROM	STATION TO	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	624.0100 WATER MGAL	COMMENTS
STAGE 1B								
RACINE ROAD NB	12RNB+50	13RNB+36	RT	3	43	--	--	SIDEWALK AND DRIVEWAYS
9TH STREET	15NS+92	19NB+23	RT	--	58	--	--	SIDEWALK AND DRIVEWAYS
STAGE 1B SUBTOTALS				3	101	--	--	
STAGE 2								
RACINE ROAD NB/SB	18RNB+00	20RNB+58	LT/RT	--	782	1,877	--	
	20RNB+66	23RNB+68	LT	--	147	--	--	ISLAND SPLITTER
	25RNB+97	28RNB+70	LT	--	111	--	--	ISLAND SPLITTER
RACINE ROAD NB	18RNB+22	28RNB+00	RT	--	133	--	--	SIDEWALK AND DRIVEWAYS
	20RNB+58	23RNB+74	LT/RT	--	420	1,009	--	
	25RNB+82	28RNB+00	LT/RT	--	208	499	--	
	18RNB+22	18RNB+43	RT	--	20			
RACINE ROAD SB	17RNB+46	27RSB+85	LT	--	127	--	--	SIDEWALK AND DRIVEWAYS
	20RSB+61	24RSB+07	LT/RT	--	529	1,269	--	
	25RSB+98	27RSB+90	LT/RT	--	214	513	--	
RACINE ROAD ROUNDABOUT	10RRT+00	14RRT+61	LT/RT	--	1,080	2,289	--	
RACINE ROAD CONNECTOR NB	236CNB+63	243CNB+93	LT/RT	--	1,217	2,920	--	
	236CNB+75	243CNB+93	LT	--	196	--	--	ISLAND SPLITTER
RACINE ROAD CONNECTOR SB	236CSB+65	243CSB+83	LT/RT	--	881	2,114	--	
RACINE ROAD SW BYPASS	18RSWC+63	27RSWC+00	LT/RT	--	847	2,033	--	
	18RSWC+63	26RSWC+93	LT	--	165	--	--	ISLAND SPLITTER
RACINE ROAD SE BYPASS	11RSEC+52	14RSEC+05	LT/RT	--	227	546	--	
CITGO CAR WASH DRIVEWAY	0CCW+05	0CCW+92	LT/RT	--	119	--		
CITGO GAS STATION DRIVEWAY	0CGS+05	1CGS+32	LT/RT	--	169	--		
CITGO DRIVEWAY	0CDW+05	2CDW+74	LT/RT	--	374	--		
STAGE 2 SUBTOTALS				--	7,304	15,069	--	
UNDISTRIBUTED				30	--	--	120	H20 FOR DUST CONTROL & COMPACTION
PROJECT 1517-75-76 TOTAL				120	11,956	23,928	120	

BASE AGGREGATE DENSE 3/4-INCH AGGREGATE CONVERSION (FOR INFORMATION ONLY) => 1 CY = 2.5 TON
BASE AGGREGATE DENSE 1 1/4-INCH AGGREGATE CONVERSION (FOR INFORMATION ONLY) => 1 CY = 2.0 TON
BREAKER RUN AGGREGATE CONVERSION (FOR INFORMATION ONLY) => 1 CY = 1.8 TON

CONCRETE ITEMS

ROADWAY	STATION	OFFSET	405.0100 COLORING CONCRETE RED CY	416.0160 CONCRETE DRIVEWAY 6-INCH SY	416.0512 CONCRETE ROUNDABOUT TRUCK APRON 12-INCH SY	416.0620 DRILLED DOWEL BARS EACH	620.0300 CONCRETE MEDIAN SLOPED NOSE SF	SPV.0180.003 MODIFIED HIGH PERFORMANCE CONCRETE (HPC) PAVEMENT 10-INCH SY	SPV.0180.002 COLORED CONCRETE PAVEMENT 10-INCH SY
PROJECT 1517-75-76									
RACINE ROAD NB	12RNB+72	LT	--	17	--	--	--	--	--
	12RNB+90	RT	--	18	--	--	--	--	--
	13RNB+23	LT	--	26	--	--	--	--	--
	13RNB+50 - 15RNB+74	RT/LT	--	--	--	28	--	1,096	--
	13RNB+71	RT	--	20	--	--	--	--	--
	13RNB+91	LT	--	41	--	--	--	--	--
	14RNB+25	RT	--	30	--	--	--	--	--
	15RNB+74 - 23RNB+39	RT/LT	--	--	--	--	--	4,595	--
	23RNB+39 - 23RNB+49	RT	--	--	--	--	--	--	33
	23RNB+49 - 23RNB+74	RT	--	--	--	--	--	74	--
	17RNB+04	RT	--	62	--	--	--	--	--
	17RNB+31	LT	--	35	--	--	--	--	--
	18RNB+31	RT	--	26	--	--	--	--	--
	19RNB+68	RT	--	44	--	--	--	--	--
	20RNB+23	RT	--	44	--	--	--	--	--
	20RNB+62	LT	--	--	--	--	68	--	--
	23RNB+70	LT	--	--	--	--	30	--	--
	21RNB+52	RT	--	64	--	--	--	--	--
	25RNB+82 - 26RNB+34	RT	--	--	--	--	--	98	--
	26RNB+34 - 26RNB+44	RT	--	--	--	--	--	--	19
	26RNB+44 - 35RNB+02	RT/LT	--	--	--	--	--	2,910	--
	25RNB+96	LT	--	--	--	--	49	--	--
	28RNB+73	LT	--	--	--	--	41	--	--
	31RNB+40	RT	--	48	--	--	--	--	--
	31RNB+86	RT	--	24	--	--	--	--	--
	33RNB+61	RT	--	31	--	--	--	--	--
	34RNB+18	RT	--	19	--	--	--	--	--
RACINE ROAD SB	18RSB+56 - 18RSB+97	LT	--	46	--	--	--	--	--
	20RSB+61 - 23RSB+47	RT/LT	--	--	--	--	--	1,074	--
	23RSB+47 - 23RSB+57	LT	--	--	--	--	--	--	18
	23RSB+57 - 24RSB+07	RT/LT	--	--	--	--	--	113	--
	23RSB+95	RT	--	--	--	--	45	--	--
	25RSB+98 - 26RSB+23	LT	--	--	--	--	--	45	--
	26RSB+23 - 26RSB+33	LT	--	--	--	--	--	--	19
	26RSB+33 - 28RSB+67	RT/LT	--	--	--	--	--	662	--
	26RSB+04	RT	--	--	--	--	22	--	--
RACINE ROAD CONNECTOR NB	236CNB+63 - 237CNB+16	RT	--	--	--	--	--	149	--
	237CNB+16 - 237CNB+26	RT	--	--	--	--	--	--	27
	237CNB+26 - 243CNB+93	RT	--	--	--	--	--	2,731	--
	236CNB+75	LT	--	--	--	--	45	--	--

CONCRETE ITEMS (CONTINUED)

ROADWAY	STATION	OFFSET	405.0100 COLORING CONCRETE RED CY	416.0160 CONCRETE DRIVEWAY 6-INCH SY	416.0512 CONCRETE ROUNDABOUT TRUCK APRON 12-INCH SY	416.0620 DRILLED DOWEL BARS EACH	620.0300 CONCRETE MEDIAN SLOPED NOSE SF	SPV.0180.003 MODIFIED HIGH PERFORMANCE CONCRETE (HPC) PAVEMENT 10-INCH SY	SPV.0180.002 COLORED CONCRETE PAVEMENT 10-INCH SY
PROJECT 1517-75-76									
RACINE ROAD CONNECTOR SB	236CSB+65 - 237CSB+00	LT	--	--	--	--	--	100	--
	237CSB+00 - 237CSB+10	LT	--	--	--	--	--	--	33
	237CSB+10 - 243CSB+83	LT	--	--	--	--	--	1,805	--
	236CSB+74	RT	--	--	--	--	23	--	--
RACINE ROAD SE BYPASS	11RSEC+52 - 11RSEC+97	LT	--	--	--	--	--	74	--
	11RSEC+97 - 12RSEC+07	LT	--	--	--	--	--	--	17
	12RSEC+07 - 13RSEC+09	LT	--	--	--	--	--	184	--
	13RSEC+09 - 13RSEC+19	LT	--	--	--	--	--	--	19
	13RSEC+19 - 14RSEC+05	LT	--	--	--	--	--	140	--
	11RSEC+55	RT	--	--	--	--	69	--	--
	14RSEC+02	RT	--	--	--	--	66		--
RACINE ROAD SW RAMP BYPASS	18RSWC+63 - 25RSWC+20	RT	--	--	--	--	--	1,258	--
	25RSWC+20 - 25RSWC+30	RT	--	--	--	--	--	--	27
	25RSWC+30 - 26RSWC+34	RT	--	--	--	--	--	235	--
	26RSWC+34 - 26RSWC+44	RT	--	--	--	--	--	--	18
	26RSWC+34 - 27RSWC+00	RT	--	--	--	--	--	94	--
	26RSWC+97	LT	--	--	--	--	62	--	--
RACINE ROAD ROUNDABOUT	10RRT+00 - 14RRT+61	RT	167	--	500	--	--	1,813	--
9TH STREET	13NS+31 - 15NS+37	RT/LT	--	--	--	27	--	880	--
	13NS+53	RT	--	56	--	--	--	--	--
	14NS+22	RT	--	27	--	--	--	--	--
	14NS+31	LT	--	14	--	--	--	--	--
	15NS+86 - 19NS+20	RT/LT	--	--	--	28	--	1,711	--
	16NS+89	RT	--	46	--	--	--	--	--
	17NS+00	LT	--	--	--	--	--	--	--
	17NS+47	RT	--	24	--	--	--	--	--
	17NS+61	LT	--	29	--	--	--	--	--
	18NS+04	RT	--	22	--	--	--	--	--
	18NS+26	LT	--	16	--	--	--	--	--
	18NS+70	RT	--	21	--	--	--	--	--
	18NS+87	LT	--	12	--	--	--	--	--
	19NS+09	LT	--	8	--	--	--	--	--
12TH STREET	10TWS+18 - 13TWS+14	RT/LT	--	--	--	--	--	1,210	--
	12TWS+11	LT	--	82	--	--	--	--	--
PROJECT 1517-75-76 TOTAL			167	952	500	83	521	23,051	230

ASPHALT ITEMS

ROADWAY	STATION	OFFSET	455.0105 ASPHALTIC MATERIAL PG 58-28 TON	455.0605 TACK COAT GAL	460.1110 HMA PAVEMENT TYPE E-10 TON	465.0105 ASPHALTIC SURFACE TON	465.0120 ASPHALTIC SURFACE DRIVEWAY AND FIELD ENTRANCES TON	SPV.0195.001 COLD PATCH TON
PROJECT 1517-75-76								
RACINE ROAD NB	12RNB+50 - 13RNB+50	RT/LT	7	27	127	--	--	--
	12RNB+72	LT	--	--	--	--	1	--
	13RNB+71	RT	--	--	--	--	3	--
	14RNB+25	RT	--	--	--	--	4	--
	14RNB+47 - 15RNB+09	LT	--	--	--	--	21	--
	16RNB+09 - 17RNB+19	LT	--	--	--	--	55	--
	16RNB+12 - 16RNB+80	RT	--	--	--	--	20	--
	17RNB+05	RT	--	--	--	--	20	--
	17RNB+31	LT	--	--	--	--	13	--
	17RNB+44 - 17RNB+49	LT	--	--	--	--	2	--
	18RNB+31	RT	--	--	--	--	15	--
	19RNB+68	RT	--	--	--	--	70	--
	20RNB+23	RT	--	--	--	--	104	--
	21RNB+51	RT	--	--	--	--	238	--
	31RNB+40	RT	--	--	--	--	56	--
	33RNB+61	RT	--	--	--	--	11	--
	34RNB+18	RT	--	--	--	--	4	--
	35RNB+02 - 35RNB+77	RT/LT	4	16	75	--	--	--
9TH STREET	13NS+53	RT	--	--	--	--	2	--
	14NS+15 - 15NS+03	RT	--	--	--	--	17	--
	14NS+31	LT	--	--	--	--	4	--
	16NS+08 - 16NS+65	LT	--	--	--	--	34	--
	16NS+89	RT	--	--	--	--	9	--
12TH STREET	11TWS+79 - 12TWS+01	LT	--	--	--	--	5	--
UNDISTRIBUTED			--	--	--	--	--	5
PROJECT 1517-75-76 TOTAL			11	43	202	--	708	5

FENCE CHAIN LINK 6-FT

ROADWAY	FROM STATION	FROM OFFSET	TO STATION	TO OFFSET	616.0206 FENCE CHAIN LINK 6-FT LF
PROJECT 1517-75-76					
RACINE ROAD SB	27RSB+88	66.2' LT	28RSB+74	70.2' LT	90
RACINE ROAD SW BYPASS	23RSWC+20	34.1' RT	26RSWC+33	64.3' RT	212
PROJECT 1517-75-76 TOTAL					302

FILE NAME: I:\56537\1517-75-76\t1\cds\030201_mq.ppt PLOT DATE : 1/29/2016 1:42:54 PM PLOT BY : HNTB CORP. PLOT NAME : PLOT SCALE : 1:1

CURB & GUTTER ITEMS

ROADWAY	STATION			OFFSET	601.0409 CONCRETE CURB AND GUTTER 30-INCH TYPE A LF	601.0411 CONCRETE CURB AND GUTTER 30-INCH TYPE D LF	601.0600 CONCRETE CURB PEDESTRIAN LF	SPV.0090.002 CONCRETE CURB AND GUTTER 4-INCH SLOPED 36-INCH TYPE R FULL DEPTH LF	SPV.0090.003 CONCRETE CURB AND GUTTER INTEGRAL 30-INCH SPECIAL LF	SPV.0090.004 CONCRETE CURB AND GUTTER 18-INCH TYPE A REJECT FULL DEPTH LF
PROJECT 1517-75-76										
RACINE ROAD NB	12RNB+50	-	13RNB+50	RT	--	100	--	--	--	--
	12RNB+50	-	13RNB+50	LT	--	100	--	--	--	--
	13RNB+50	-	15RNB+39	RT	--	--	--	--	189	--
	13RNB+50	-	15RNB+40	LT	--	--	--	--	194	--
	16RNB+06	-	19RNB+86	LT	386	--	--	--	--	--
	16RNB+25	-	22RNB+32	RT	--	--	--	--	603	--
	19RNB+86	-	20RNB+59	LT	--	--	--	--	75	--
	20RNB+66	-	23RNB+69	LT	303	--	--	--	--	--
	22RNB+32	-	23RNB+74	RT	116	--	--	--	--	--
	23RNB+39	-	23RNB+49	LT	--	--	86	--	--	--
	25RNB+82	-	28RNB+58	RT	274	--	--	--	--	--
	25RNB+95	-	28RNB+73	LT	271	--	--	--	--	--
	26RNB+34	-	26RNB+44	LT	--	--	92	--	--	--
	28RNB+82	-	30RNB+08	LT	128	--	--	--	--	--
	29RNB+64	-	35RNB+02	RT	--	--	--	--	543	--
	30RNB+08	-	35RNB+02	LT	--	--	--	--	490	--
	35RNB+02	-	35RNB+16	RT	--	14	--	--	--	--
	35RNB+02	-	35RNB+16	LT	--	14	--	--	--	--
RACINE ROAD SB	20RSB+66	-	22RSB+40	LT	--	--	--	--	181	--
	20RSB+66	-	23RSB+92	RT	324	--	--	--	--	--
	22RSB+40	-	22RSB+88	LT	50	--	--	--	--	--
	22RSB+95	-	24RSB+07	LT	112	--	--	--	--	--
	25RSB+98	-	27RSB+34	LT	120	--	--	--	--	--
	26RSB+04	-	28RSB+64	RT	257	--	--	--	--	--
	26RSB+23	-	26RSB+35	LT	--	--	46	--	--	--
	27RSB+39	-	28RSB+70	LT	134	--	--	--	--	--
RACINE ROAD CONNECTOR NB	236CNB+63	-	237CNB+66	RT	103	--	--	--	--	--
	236CNB+78	-	243CNB+93	LT	715	--	--	--	--	--
	237CNB+15	-	237CNB+26	LT	--	--	84	--	--	--
	237CNB+18	-	237CNB+28	RT	--	--	15	--	--	--
	237CNB+73	-	243CNB+91	RT	608	--	--	--	--	--
RACINE ROAD CONNECTOR SB	236CSB+65	-	243CSB+84	LT	696	--	--	--	--	--
	236CSB+76	-	243CSB+84	RT	708	--	--	--	--	--
RACINE ROAD SE BYPASS	11RSEC+53	-	14RSEC+04	LT	226	--	--	--	--	--
	11RSEC+59	-	14RSEC+03	RT	243	--	--	--	--	--

CURB & GUTTER ITEMS (CONTINUED)

ROADWAY	STATION			OFFSET	601.0409 CONCRETE CURB AND GUTTER 30-INCH TYPE A LF	601.0411 CONCRETE CURB AND GUTTER 30-INCH TYPE D LF	601.0600 CONCRETE CURB PEDESTRIAN LF	SPV.0090.002 CONCRETE CURB AND GUTTER 4-INCH SLOPED 36-INCH TYPE R FULL DEPTH LF	SPV.0090.003 CONCRETE CURB AND GUTTER INTEGRAL 30-INCH SPECIAL LF	SPV.0090.004 CONCRETE CURB AND GUTTER 18-INCH TYPE A REJECT FULL DEPTH LF
PROJECT 1517-75-76										
RACINE ROAD SW RAMP BYPASS	18RSWC+63	-	26RSWC+31	RT	--	--	--	--	738	--
	18RSWC+63	-	26RSWC+93	LT	832	--	--	--	--	--
	25RSWC+20	-	25RSWC+30	LT	--	--	27	--	--	--
	26RSWC+31	-	26RSWC+97	RT	66	--	--	--	--	--
	26RSWC+34	-	26RSWC+44	LT	--	--	24	--	--	--
RACINE ROAD ROUNDABOUT	10RRT+00	-	14RRT+61	LT	--	--	--	450	--	367
	11RRT+67	-	12RRT+12	RT	59	--	--	--	--	--
	12RRT+25	-	12RRT+55	RT	49	--	--	--	--	--
	12RRT+75	-	13RRT+27	RT	60	--	--	--	--	--
	13RRT+44	-	13RRT+72	RT	43	--	--	--	--	--
	13RRT+91	-	14RRT+37	RT	53	--	--	--	--	--
	14RRT+55	-	11RRT+51	RT	234	--	--	--	--	--
9TH STREET	13NS+31	-	15NS+28	RT	--	--	--	--	199	--
	13NS+32	-	15NS+19	LT	--	--	--	--	194	--
	15NS+88	-	19NS+20	RT	--	--	--	--	334	--
	15NS+93	-	19NS+20	LT	--	--	--	--	342	--
12TH STREET	10TWS+20	-	10TWS+67	LT	67	--	--	--	--	--
	10TWS+67	-	13TWS+14	LT	--	--	--	--	242	--
	10TWS+25	-	10TWS+95	RT	79	--	--	--	--	--
	10TWS+95	-	13TWS+14	RT	--	--	--	--	224	--
PROJECT 1517-75-76 TOTAL					7,318	228	373	450	4,548	367

CONCRETE CURB PRECAST

ROADWAY	601.0199.S CONCRETE CURB PRECAST EACH
VALLEY MUFFLER & BRAKE	8
PROJECT 1517-75-76 TOTAL	8

MAINTENANCE AND REPAIR OF HAUL ROADS (1517-75-76)

ROADWAY	618.0100 MAINTENANCE AND REPAIR OF HAUL ROADS 1517-75-76 EACH
PROJECT 1517-75-76	1
PROJECT 1517-75-76 TOTAL	1

MOBILIZATION

ROADWAY	619.1000 MOBILIZATION EACH
PROJECT 1517-75-76	1
PROJECT 1517-75-76 TOTAL:	1

CONCRETE SIDEWALK

ROADWAY	STATION			OFFSET	602.0410 CONCRETE SIDEWALK 5-INCH SF	602.0515 CURB RAMP DETECTABLE WARNING FIELD NATURAL PATINA SF	602.1500 CONCRETE STEPS SF	SPV.0180.001 COLORED AND STAMPED CONCRETE 5-INCH SY
STAGE 1A								
RACINE ROAD NB	12RNB+50	-	15RNB+36	RT	1,192	8	--	--
	15NS+92	-	19NS+23	RT	1,447	8	--	--
STAGE 1A SUBTOTALS					2,639	16	--	--
STAGE 1B & 2								
RACINE ROAD NB	12RNB+50	-	15RNB+36	LT	1,285	8	--	--
	13RNB+38	-	13RNB+41	RT	--	--	13	--
	15RNB+91	-	20RNB+59	LT	2,272	8	--	--
	16RNB+03	-	23RNB+74	RT	3,369	26	--	--
	20RNB+66	-	23RNB+39	LT	--	--	--	697
	23RNB+39	-	23RNB+49	LT	427	18	--	--
	23RNB+50	-	23RNB+68	LT	--	--	--	130
	25RNB+82	-	28RNB+70	RT	2,889	36	--	--
	25RNB+97	-	26RNB+34	LT	--	--	--	139
	26RNB+34	-	26RNB+44	LT	458	18	--	--
	26RNB+45	-	28RNB+70	LT	--	--	--	469
	28RNB+83	-	35RNB+02	LT	3,650	--	--	--
	28RNB+70		29RNB+52	RT	--	18	--	--
	29RNB+52	-	35RNB+02	RT	2,614	--	--	--
RACINE ROAD SB	20RSB+67	-	22RSB+88	LT	1,377	--	--	--
	23RSB+45	-	23RSB+55	LT	119	18	--	--
	23RSB+45	-	23RSB+55	RT	--	18	--	--
	26RSB+23	-	26RSB+32	LT	228	18	--	--
	26RSB+23	-	26RSB+32	RT	--	18	--	--
	27RSB+40	-	28RSB+72	LT	1,350	--	--	--
RACINE ROAD CONNECTOR NB	236CNB+75	-	237CNB+15	LT	--	--	--	160
	237CNB+15	-	237CNB+26	LT	420	18	--	--
	237CNB+15	-	237CNB+26	RT	--	18	--	--
	237CNB+26	-	243CNB+93	LT	--	--	--	965
RACINE ROAD CONNECTOR SB	237CSB+00		243CSB+00	RT	--	18	--	--
	237CSB+00		243CSB+00	LT	--	18	--	--
RACINE ROAD SE BYPASS	11RSEC+59	-	11RSEC+96	RT	--	--	--	25
	11RSEC+97	-	12RSEC+07	RT	73	18	--	--
	11RSEC+97		14RSEC+03	LT	1,823	36	--	--
	12RSEC+07	-	13RSEC+09	RT	--	--	--	207
	13RSEC+09	-	13RSEC+20	RT	--	18	--	--
	13RSEC+20	-	13RSEC+99	RT	--	--	--	132

CONCRETE SIDEWALK (CONT.)

ROADWAY	STATION			OFFSET	602.0410 CONCRETE SIDEWALK 5-INCH SF	602.0515 CURB RAMP DETECTABLE WARNING FIELD NATURAL PATINA SF	602.1500 CONCRETE STEPS SF	SPV.0180.001 COLORED AND STAMPED CONCRETE 5-INCH SY
RACINE ROAD SW RAMP BYPASS	18RSWC+63	-	25RSWC+19	LT	--	--	--	742
	25RSWC+20	-	25RSWC+30	LT	135	18	--	--
	25RSWC+21	-	26RSWC+95	RT	1,596	36	--	--
	25RSWC+30	-	26RSWC+34	LT	--	--	--	176
	26RSWC+34	-	26RSWC+45	LT	--	18	--	--
	26RSWC+45	-	26RSWC+93	LT	--	--	--	42
RACINE ROAD ROUNDABOUT	10RRT+00	-	14RRT+61	LT	--	--	--	229
	14RRT+55	-	11RRT+49	RT	2,493	--	--	--
9TH STREET	13NS+23	-	15RNS+24	RT	830	8	--	--
	13NS+23	-	15RNS+24	LT	--	8	--	--
	15NS+92	-	19NS+23	LT	--	8	--	--
12TH STREET	10TWS+30	-	13TWS+14	LT	1,336	--	--	--
	10TWS+40	-	13TWS+14	RT	1,819	--	--	--
STAGE 1B & 2 SUBTOTALS					30,563	444	13	4,113
PROJECT 1517-75-76 TOTAL					33,202	460	13	4,113

3

FILE NAME: I:\56537\1517-75-76\t1\cds\030201_mq.ppt PLOT DATE : 1/29/2016 1:42:55 PM PLOT BY : HNTB CORP. PLOT NAME : PLOT SCALE : 1:1

3

PIPE UNDERDRAIN

ROADWAY	STRUCTURE NUMBER	STATION	OFFSET	209.0300.S BACKFILL COARSE AGGREGATE SIZE NO. 1 CY	612.0406 PIPE UNDERDRAIN WRAPPED 6-INCH LF
PROJECT 1517-75-76					
RACINE ROAD NB	309	13RNB+23	22.5' RT	3	100
	310	13RNB+23	21.1' LT	3	100
	318	16RNB+67	42.5' LT	--	165
	209	22RNB+27	29.5' RT	3	103
	210	22RNB+80	26.7' RT	1	32
	211	22RNB+70	1.5' LT	3	100
	217	22RNB+22	30.2' RT	1	50
	247	26RNB+29	18.8' RT	2	81
	248	26RNB+60	18.8' RT	1	50
	250	26RNB+60	1.8' LT	3	100
	401	31RNB+13	17.8' RT	3	87
	402	31RNB+50	17.8' RT	1	19
	403	31RNB+68	17.8' RT	1	50
	405	31RNB+50	17.8' LT	3	98
	406	31RNB+99	17.8' LT	1	50
RACINE ROAD SB	212	23RSB+14	1.5' RT	3	100
	213	23RSB+16	17.6' LT	1	50
	251	26RSB+60	1.8' RT	3	100
RACINE ROAD CONNECTOR NB	267	238CNB+18	48.3' RT	3	100
	278	243CNB+09	37.8' RT	3	85
	280	243CNB+45	37.8' RT	1	50
RACINE ROAD CONNECTOR SB	237	237CSB+49	29.3' LT	3	100
	287	243CSB+50	25.3' LT	3	100
	288	243CSB+50	1.8' RT	3	100
RACINE ROAD SW RAMP BYPASS	226	25RSWC+89	25.7' RT	2	64
	228	25RSWC+70	27.1' RT	1	42
	229	25RSWC+13	24.2' RT	1	50
RACINE ROAD ROUNDABOUT	230	13RRT+62	2.4' LT	2	75
	231	13RRT+36	1.7' LT	1	50
9TH STREET	107	16NS+56	28.5' RT	1	50
	108	16NS+21	28.5' RT	3	85
	110	16NS+68	24.5' LT	1	50
	111	16NS+35	24.5' LT	2	83
12TH STREET	241	10TWS+57	18.8' LT	3	100
	242	10TWS+75	19.9' RT	3	100
UNDISTRIBUTED				7	272
PROJECT 1517-75-76 TOTAL				79	2,991

FINISHING MATERIALS

ROADWAY	STATION			OFFSET	625.0100 TOPSOIL SY	625.0500 SALVAGED TOPSOIL SY	627.0200 MULCHING SY	629.0210 FERTILIZER TYPE B CWT	630.0120 SEEDING MIXTURE NO. 20 LB	630.0140 SEEDING MIXTURE NO. 40 LB	630.0200 SEEDING TEMPORARY LB	SPV.0120.001 WATER FOR SEEDED AREAS MGAL	SPV.0035.501 PLANTING MIX CY
PROJECT 1517-75-76													
RACINE ROAD NB	12RNB+50	-	12RNB+57	RT	--	2	--	--	--	0.1	--	--	--
	12RNB+50	-	12RNB+68	LT	--	7	--	--	--	0.2	--	--	--
	12RNB+50	-	12RNB+84	RT	--	14	--	--	--	0.3	--	--	--
	12RNB+53	-	12RNB+68	LT	--	6	--	--	--	0.2	--	--	--
	12RNB+59	-	12RNB+84	RT	--	11	--	--	--	0.2		--	--
	12RNB+78	-	13RNB+00	LT	--	18	--	--	--	0.4	--	--	--
	12RNB+83	-	13RNB+12	LT	--	16	--	--	--	0.3	--	--	--
	12RNB+96	-	13RNB+38	RT	--	14	--	--	--	0.3	--	--	--
	13RNB+01	-	13RNB+59	RT	--	27	--	--	--	0.5	--	--	--
	13RNB+03	-	13RNB+16	LT	--	11	--	--	--	0.2	--	--	--
	13RNB+29	-	13RNB+57	LT	--	9	--	--	--	0.2	--	--	--
	13RNB+33	-	13RNB+73	LT	--	15	--	--	--	0.3	--	--	--
	13RNB+41	-	13RNB+64	RT	--	14	--	--	--	0.3	--	--	--
	13RNB+60	-	13RNB+77	LT	--	5	--	--	--	0.1	--	--	--
	13RNB+84	-	14RNB+07	RT	--	8	--	--	--	0.2	--	--	--
	13RNB+87	-	13RNB+93	LT	--	7	--	--	--	0.2	--	--	--
	13RNB+92	-	14RNB+11	RT	--	8	--	--	--	0.2	--	--	--
	14RNB+04	-	14RNB+47	LT	--	36	--	--	--	0.7	--	--	--
	14RNB+08	-	15RNB+24	LT	--	39	--	--	--	0.8	--	--	--
	14RNB+40	-	15RNB+32	RT	--	52	--	--	--	1.0	--	--	--
	14RNB+44	-	15RNB+27	RT	--	28	--	--	--	0.6	--	--	--
	16RNB+12	-	17RNB+15	LT	--	63	--	--	--	1.2	--	--	--
	16RNB+14	-	17RNB+02	RT	--	56	--	--	--	1.1	--	--	--
	17RNB+28	-	18RNB+22	RT	--	178	--	0.1	4.8	--	2.5	--	--
	17RNB+32	-	18RNB+18	RT	--	54	--	--	1.5	--	0.8	--	--
	17RNB+48	-	20RNB+60	LT	--	196	--	0.1	5.3	--	2.7	--	--
	17RNB+49	-	20RNB+59	LT	--	317	--	0.2	8.5	--	4.3	--	--
	18RNB+39	-	19RNB+52	RT	--	689	--	0.4	18.6	--	9.3	--	--
	18RNB+43	-	19RNB+46	RT	--	63	--	--	1.7	--	0.9	--	--
	19RNB+85	-	20RNB+06	RT	--	249	--	0.2	6.7	--	3.4	--	--
	19RNB+89	-	20RNB+02	RT	--	9	--	--	0.2	--	0.2	--	--
	20RNB+39	-	21RNB+33	RT	--	1,607	1,399	1.0	43.4	--	21.7	--	--
	20RNB+43	-	21RNB+28	RT	--	65	--	--	1.7	--	0.9	--	--
	21RNB+68	-	23RNB+74	RT	--	1,460	1,115	0.9	39.4	--	19.8	--	--
	21RNB+72	-	22RNB+59	RT	--	80	--	0.1	2.2	--	1.1	--	--
	22RNB+46	-	23RNB+34	RT	--	69	--	--	1.9	--	1.0	--	--
	23RNB+48	-	23RNB+74	RT	--	20	--	--	0.5	--	0.3	--	--
	25RNB+82	-	26RNB+34	RT	--	58	--	--	1.6	--	0.8	--	--
	25RNB+82	-	28RNB+74	RT	--	4,524	3,896	2.8	122.1	--	61.1	--	--
	26RNB+44	-	28RNB+62	RT	--	231	--	0.1	6.2	--	3.2	--	--
	28RNB+82	-	29RNB+94	LT	--	118	--	0.1	3.2	--	1.6	--	--
	28RNB+85	-	35RNB+57	LT	--	1,168	--	0.7	31.5	--	15.8	--	--

FINISHING MATERIALS (CONTINUED)

ROADWAY	STATION			OFFSET	625.0100 TOPSOIL SY	625.0500 SALVAGED TOPSOIL SY	627.0200 MULCHING SY	629.0210 FERTILIZER TYPE B CWT	630.0120 SEEDING MIXTURE NO. 20 LB	630.0140 SEEDING MIXTURE NO. 40 LB	630.0200 SEEDING TEMPORARY LB	SPV.0120.001 WATER FOR SEEDED AREAS MGAL	SPV.0035.501 PLANTING MIX CY
RACINE ROAD NB (CONT.)	29RNB+43	-	29RNB+89	RT	--	23	--	--	0.6	--	0.4	--	--
	29RNB+51	-	31RNB+22	RT	--	1,674	1,304	1.1	45.2	--	22.7	--	--
	29RNB+92	-	31RNB+20	RT	--	75	--	--	2.0	--	1.1	--	--
	31RNB+58	-	31RNB+79	RT	--	141	--	0.1	3.8	--	2.0	--	--
	31RNB+62	-	31RNB+75	RT	--	9	--	--	0.3	--	0.2	--	--
	31RNB+94	-	33RNB+51	RT	--	401	--	0.3	10.8	--	5.5	--	--
	31RNB+98	-	33RNB+46	RT	--	94	--	0.1	2.5	--	1.3	--	--
	33RNB+71	-	34RNB+12	RT	--	79	--	0.1	2.1	--	1.1	--	--
	33RNB+76	-	34RNB+08	RT	--	21	--	--	0.6	--	0.3	--	--
	34RNB+27	-	35RNB+77	RT	--	445	--	0.3	12.0	--	6.1	--	--
	35RNB+70	-	35RNB+77	LT	--	14	--	--	0.4	--	0.2	--	--
RACINE ROAD SB	20RSB+66	-	22RSB+63	LT	--	161	--	0.1	4.3	--	2.2	--	--
	20RSB+68	-	22RSB+83	LT	--	271	--	0.2	7.3	--	3.7	--	--
	22RSB+53	-	22RSB+86	LT	--	29	--	--	0.8	--	0.4	--	--
	27RSB+39	-	28RSB+70	LT	--	149	--	0.1	4.0	--	2.1	--	--
	27RSB+41	-	28RSB+73	LT	--	87	--	0.1	2.4	--	1.2	--	--
RACINE ROAD CONNECTOR NB	237CNB+29	-	243CNB+91	RT	--	6,014	4,575	3.8	162.4	--	81.2	--	--
RACINE ROAD SE BYPASS	11RSEC+97	-	14RSEC+02	LT	--	725	410	0.5	19.6	--	9.8	--	--
	12RSEC+07	-	13RSEC+06	LT	--	87	--	0.1	2.4	--	1.2	--	--
	13RSEC+18	-	14RSEC+04	LT	--	85	--	0.1	2.3	--	1.2	--	--
RACINE ROAD SW BYPASS	18RSWC+63	-	26RSWC+99	RT	--	4,531	2,983	2.9	122.3	--	61.2	--	--
	25RSWC+35	-	26RSWC+33	RT	--	85	--	0.1	2.3	--	1.2	--	--
	26RSWC+43	-	26RSWC+99	RT	--	62	--	--	1.7	--	0.9	--	--
RACINE ROAD ROUNDABOUT	10RRT+00	-	14RRT+61	LT	--	917	--	0.6	--	--	24.8	--	611
	14RRT+54	-	11RRT+51	RT	--	5,258	4,992	3.3	142.0	--	71.0	--	--
	14RRT+56	-	11RRT+45	RT	--	586	--	0.4	15.8	--	8.0	--	--
9TH STREET	13NS+29	-	13NS+39	RT	--	6	--	--	--	0.2	--	--	--
	13NS+31	-	13NS+35	RT	--	5	--	--	--	0.1	--	--	--
	13NS+31	-	14NS+15	LT	--	62	--	--	--	1.2	--	--	--
	13NS+49	-	13NS+54	RT	--	4	--	--	--	0.1	--	--	--
	13NS+66	-	13NS+80	RT	--	8	--	--	--	0.2	--	--	--
	13NS+71	-	14NS+11	RT	--	39	--	--	--	0.8	--	--	--
	13NS+84	-	14NS+15	RT	--	20	--	--	--	0.4	--	--	--
	14NS+33	-	15NS+04	RT	--	52	--	--	--	1.0	--	--	--
	14NS+46	-	15NS+07	LT	--	46	--	--	--	0.9	--	--	--
	15NS+03	-	15NS+27	RT	--	16	--	--	--	0.3	--	--	--
	15NS+09	-	15NS+34	RT	--	18	--	--	--	0.4	--	--	--
	15NS+84	-	16NS+03	RT	--	12	--	--	--	0.3	--	--	--
	15NS+96	-	16NS+72	RT	--	33	--	--	--	0.6	--	--	--
	16NS+08	-	16NS+68	RT	--	37	--	--	--	0.7	--	--	--
	17NS+06	-	17NS+12	RT	--	2	--	--	--	0.1	--	--	--
	17NS+11	-	17NS+37	RT	--	18	--	--	--	0.4	--	--	--

FINISHING MATERIALS (CONTINUED)

ROADWAY	STATION			OFFSET	625.0100 TOPSOIL SY	625.0500 SALVAGED TOPSOIL SY	627.0200 MULCHING SY	629.0210 FERTILIZER TYPE B CWT	630.0120 SEEDING MIXTURE NO. 20 LB	630.0140 SEEDING MIXTURE NO. 40 LB	630.0200 SEEDING TEMPORARY LB	SPV.0120.001 WATER FOR SEEDED AREAS MGAL	SPV.0035.501 PLANTING MIX CY
9TH STREET (CONT.)	17NS+18	-	17NS+42	RT	--	11	--	--	--	0.2	--	--	--
	17NS+32	-	17NS+37	LT	--	2	--	--	--	0.1	--	--	--
	17NS+52	-	17NS+66	RT	--	5	--	--	--	0.1	--	--	--
	17NS+56	-	17NS+95	RT	--	30	--	--	--	0.6	--	--	--
	17NS+70	-	18NS+00	RT	--	10	--	--	--	0.2	--	--	--
	17NS+90	-	18NS+07	LT	--	15	--	--	--	0.3	--	--	--
	18NS+08	-	18NS+14	RT	--	2	--	--	--	0.1	--	--	--
	18NS+12	-	19NS+20	RT	--	80	--	0.1	--	1.5	--	--	--
	18NS+17	-	18NS+59	RT	--	19	--	--	--	0.4	--	--	--
	18NS+42	-	18NS+78	LT	--	43	--	--	--	0.8	--	--	--
	18NS+62	-	18NS+66	RT	--	1	--	--	--	0.1	--	--	--
	18NS+74	-	19NS+20	RT	--	22	--	--	--	0.4	--	--	--
	18NS+96	-	19NS+00	LT	--	7	--	--	--	0.2	--	--	--
	19NS+18	-	19NS+20	LT	--	5	--	--	--	0.1	--	--	--
12TH STREET	10TWS+39	-	10TWS+68	RT	--	22	--	--	0.6		0.3	--	--
	10TWS+38	-	11TWS+87	LT	--	258	--	0.2	7.0		3.5	--	--
	10TWS+40	-	11TWS+02	LT	--	32	--	--	0.9		0.5	--	--
	10TWS+65	-	13TWS+14	RT	--	310	--	0.2	8.4		4.2	--	--
	12TWS+29	-	13TWS+14	LT	--	32	--	--	0.9		0.5	--	--
SUBTOTAL					--	34,928	20,674	21.5	889	22	470	--	611
UNDISTRIBUTED					1,061	685	5,169	2.2	61	28	24	784	--
PROJECT 1517-75-76 TOTAL					1,061	35,613	25,843	23.7	950	50	494	784	611

EROSION CONTROL

ROADWAY	START STATION	START OFFSET	END STATION	END OFFSET	628.1104 EROSION BALES EACH	628.1504 SILT FENCE LF	628.1520 SILT FENCE MAINTENANCE LF	628.1905 MOBILIZATIONS EROSION CONTROL EACH	628.1910 MOBILIZATIONS EMERGENCY EROSION CONTROL EACH	628.2006 EROSION MAT URBAN CLASS I TYPE A SY	628.7504 TEMPORARY DITCH CHECKS LF	628.7555 CULVERT PIPE CHECKS EACH
PROJECT 1517-75-76												
RACINE ROAD NB	12RNB+50	32.5' RT	12RNB+57	32.5' RT	--	--	--	--	--	2	--	--
	12RNB+50	22.0' LT	12RNB+68	22.0' LT	--	--	--	--	--	7	--	--
	12RNB+50	23.5' RT	12RNB+84	23.5' RT	--	--	--	--	--	14	--	--
	12RNB+53	31.5' LT	12RNB+68	31.5' LT	--	--	--	--	--	6	--	--
	12RNB+59	32.5' RT	12RNB+84	32.5' RT	--	--	--	--	--	11	--	--
	12RNB+78	31.5' LT	13RNB+00	31.5' LT	--	--	--	--	--	18	--	--
	12RNB+83	22.0' LT	13RNB+12	22.0' LT	--	--	--	--	--	16	--	--
	12RNB+96	32.5' RT	13RNB+38	32.5' RT	--	--	--	--	--	14	--	--
	13RNB+01	23.5' RT	13RNB+59	23.5' RT	--	--	--	--	--	27	--	--
	13RNB+03	31.5' LT	13RNB+16	31.5' LT	--	--	--	--	--	11	--	--
	13RNB+29	31.5' LT	13RNB+57	31.5' LT	--	--	--	--	--	9	--	--
	13RNB+33	22.7' LT	13RNB+73	23.5' LT	--	--	--	--	--	15	--	--
	13RNB+41	32.5' RT	13RNB+64	32.5' RT	--	--	--	--	--	14	--	--
	13RNB+60	31.5' LT	13RNB+77	31.5' LT	--	--	--	--	--	5	--	--
	13RNB+84	23.5' RT	14RNB+07	23.5' RT	--	--	--	--	--	8	--	--
	13RNB+87	31.5' LT	13RNB+93	31.5' LT	--	--	--	--	--	7	--	--
	13RNB+92	31.5' RT	14RNB+11	31.5' RT	--	--	--	--	--	8	--	--
	14RNB+04	31.5' LT	14RNB+47	31.5' LT	--	--	--	--	--	36	--	--
	14RNB+08	23.5' LT	15RNB+24	23.9' LT	--	--	--	--	--	39	--	--
	14RNB+40	31.5' RT	15RNB+32	36.7' RT	--	--	--	--	--	52	--	--
	14RNB+44	23.5' RT	15RNB+27	23.5' RT	--	--	--	--	--	28	--	--
	16RNB+12	43.5' LT	17RNB+15	43.5' LT	--	--	--	--	--	63	--	--
	16RNB+14	33.0' RT	17RNB+02	30.5' RT	--	--	--	--	--	56	--	--
	17RNB+28	41.0' RT	18RNB+22	41.0' RT	--	--	--	--	--	178	--	--
	17RNB+32	30.5' RT	18RNB+18	30.5' RT	--	--	--	--	--	54	--	--
	17RNB+48	43.5' LT	20RNB+60	54.2' LT	--	--	--	--	--	196	--	--
	17RNB+49	64.5' LT	19RNB+30	64.8' LT	--	187	187	--	--	--	--	--
	17RNB+49	54.0' LT	20RNB+59	64.6' LT	--	--	--	--	--	317	--	--
	18RNB+39	41.0' RT	19RNB+52	41.0' RT	--	--	--	--	--	689	--	--
	18RNB+43	30.5' RT	19RNB+46	30.5' RT	--	--	--	--	--	63	--	--
	19RNB+85	41.0' RT	20RNB+06	41.0' RT	--	--	--	--	--	249	--	--
	19RNB+89	30.5' RT	20RNB+02	30.5' RT	--	--	--	--	--	9	--	--
	20RNB+39	41.0' RT	21RNB+33	43.3' RT	--	--	--	--	--	208	--	--
	20RNB+43	30.5' RT	21RNB+28	30.5' RT	--	--	--	--	--	65	--	--
	21RNB+68	44.1' RT	23RNB+74	52.5' RT	--	--	--	--	--	344	--	--
	21RNB+72	39.2' RT	22RNB+59	39.3' RT	--	--	--	--	--	80	--	--
	22RNB+46	28.8' RT	23RNB+34	31.8' RT	--	--	--	--	--	69	--	--
	23RNB+48	32.3' RT	23RNB+74	32.5' RT	--	--	--	--	--	20	--	--
	25RNB+82	19.5' RT	26RNB+34	19.5' RT	--	--	--	--	--	58	--	--
	25RNB+82	39.7' RT	28RNB+74	65.5' RT	--	--	--	--	--	627	--	--
	26RNB+44	19.5' RT	28RNB+62	29.5' RT	--	--	--	--	--	231	--	--

EROSION CONTROL (CONTINUED)

ROADWAY	START STATION	START OFFSET	END STATION	END OFFSET	628.1104 EROSION BALES EACH	628.1504 SILT FENCE LF	628.1520 SILT FENCE MAINTENANCE LF	628.1905 MOBILIZATIONS EROSION CONTROL EACH	628.1910 MOBILIZATIONS EMERGENCY EROSION CONTROL EACH	628.2006 EROSION MAT URBAN CLASS I TYPE A SY	628.7504 TEMPORARY DITCH CHECKS LF	628.7555 CULVERT PIPE CHECKS EACH
PROJECT 1517-75-76												
RACINE ROAD NB (CONT.)	28RNB+82	39.9' LT	29RNB+94	27.4' LT	--	--	--	--	--	118	--	--
	28RNB+85	59.6' LT	35RNB+57	40.0' LT	--	--	--	--	--	1,168	--	--
	29RNB+43	29.9' RT	29RNB+89	18.5' RT	--	--	--	--	--	23	--	--
	29RNB+51	37.1' RT	31RNB+22	29.0' RT	--	--	--	--	--	371	--	--
	29RNB+92	22.0' RT	31RNB+20	18.5' RT	--	--	--	--	--	75	--	--
	31RNB+58	29.0' RT	31RNB+79	29.0' RT	--	--	--	--	--	141	--	--
	31RNB+62	18.5' RT	31RNB+75	18.5' RT	--	--	--	--	--	9	--	--
	31RNB+94	29.0' RT	33RNB+51	29.0' RT	--	--	--	--	--	401	--	--
	31RNB+98	18.5' RT	33RNB+46	18.5' RT	--	--	--	--	--	94	--	--
	33RNB+40	37.6' LT	34RNB+00	39.8' LT	--	68	68	--	--	--	--	--
	33RNB+71	29.0' RT	34RNB+12	29.0' RT	--	--	--	--	--	79	--	--
	33RNB+76	18.5' RT	34RNB+08	18.5' RT	--	--	--	--	--	21	--	--
	34RNB+27	18.5' RT	35RNB+77	15.9' RT	--	--	--	--	--	445	--	--
	35RNB+47	31.1' LT	--	--	--	--	--	--	--	--	--	2
	35RNB+80	30.7' RT	--	--	--	--	--	--	--	--	--	2
	35RNB+70	40.0' LT	35RNB+77	21.8' LT	--	--	--	--	--	14	--	--
	36RNB+05	30.1' LT	--	--	--	--	--	--	--	--	15	--
RACINE ROAD SB	20RSB+66	30.5' LT	22RSB+63	50.7' LT	--	--	--	--	--	161	--	--
	20RSB+68	41.0' LT	22RSB+83	61.4' LT	--	--	--	--	--	271	--	--
	22RSB+53	38.3' LT	22RSB+86	41.6' LT	--	--	--	--	--	29	--	--
	27RSB+18	102.6' LT	28RSB+73	53.7' LT	--	172	172	--	--	--	--	--
	27RSB+39	43.7' LT	28RSB+70	26.0' LT	--	--	--	--	--	149	--	--
	27RSB+41	63.7' LT	28RSB+73	45.9' LT	--	--	--	--	--	87	--	--
RACINE ROAD CONNECTOR NB	237CNB+29	53.5' RT	243CNB+91	38.5' RT	--	--	--	--	--	1,439	--	--
	238CNB+16	145.1' RT	--	--	--	--	--	--	--	--	--	2
	240CNB+60	83.7' RT	--	--	--	--	--	--	--	--	41	--
	242CNB+60	71.1' RT	--	--	--	--	--	--	--	--	15	--
	243CNB+70	105.0' RT	--	--	--	--	--	--	--	--	15	--
	243CNB+77	122.2' RT	--	--	--	--	--	--	--	--	15	--
RACINE ROAD SE BYPASS	11RSEC+97	37.5' LT	14RSEC+02	37.5' LT	--	--	--	--	--	314	--	--
	12RSEC+07	17.7' LT	13RSEC+06	19.4' LT	--	--	--	--	--	87	--	--
	12RSEC+89	114.6' LT	--	--	--	--	--	--	--	--	55	--
	13RSEC+18	18.8' LT	14RSEC+04	17.5' LT	--	--	--	--	--	85	--	--
	13RSEC+66	76.0' LT	14RSEC+13	57.2' LT	20	--	--	--	--	--	--	--
RACINE ROAD SW BYPASS	18RSWC+63	19.5' RT	26RSWC+99	37.4' RT	--	--	--	--	--	1,549	--	--
	20RSWC+25	109.2' RT	--	--	--	--	--	--	--	--	24	--
	20RSWC+54	115.8' RT	--	--	--	--	--	--	--	--	--	2
	20RSWC+75	95.9' RT	23RSWC+15	29.4' RT	--	256	256	--	--	--	--	--
	21RSWC+60	62.3' RT	--	--	--	--	--	--	--	--	29	--
	25RSWC+35	27.1' RT	26RSWC+33	19.2' RT	--	--	--	--	--	85	--	--
	26RSWC+43	18.6' RT	26RSWC+99	17.4' RT	--	--	--	--	--	62	--	--
RACINE ROAD ROUNDABOUT	14RRT+54	42.7' RT	11RRT+51	46.7' RT	--	--	--	--	--	266	--	--
	14RRT+56	59.9' RT	11RRT+45	64.5' RT	--	--	--	--	--	586	--	--

EROSION CONTROL (CONTINUED)

ROADWAY	START STATION	START OFFSET	END STATION	END OFFSET	628.1104 EROSION BALES EACH	628.1504 SILT FENCE LF	628.1520 SILT FENCE MAINTENANCE LF	628.1905 MOBILIZATIONS EROSION CONTROL EACH	628.1910 MOBILIZATIONS EMERGENCY EROSION CONTROL EACH	628.2006 EROSION MAT URBAN CLASS I TYPE A SY	628.7504 TEMPORARY DITCH CHECKS LF	628.7555 CULVERT PIPE CHECKS EACH
PROJECT 1517-75-76												
9TH STREET	13NS+29	40.2' RT	13NS+39	40.0' RT	--	--	--	--	--	6	--	--
	13NS+31	26.4' RT	13NS+35	26.3' RT	--	--	--	--	--	5	--	--
	13NS+31	17.8' LT	14NS+15	17.5' LT	--	--	--	--	--	62	--	--
	13NS+49	39.7' RT	13NS+54	39.6' RT	--	--	--	--	--	4	--	--
	13NS+66	39.3' RT	13NS+80	39.0' RT	--	--	--	--	--	8	--	--
	13NS+71	25.6' RT	14NS+11	25.5' RT	--	--	--	--	--	39	--	--
	13NS+84	38.9' RT	14NS+15	38.2' RT	--	--	--	--	--	20	--	--
	14NS+33	25.5' RT	15NS+04	25.5' RT	--	--	--	--	--	52	--	--
	14NS+46	17.5' LT	15NS+07	20.3' LT	--	--	--	--	--	46	--	--
	15NS+03	36.2' RT	15NS+27	53.1' RT	--	--	--	--	--	16	--	--
	15NS+09	25.5' RT	15NS+34	43.7' RT	--	--	--	--	--	18	--	--
	15NS+84	43.2' RT	16NS+03	29.6' RT	--	--	--	--	--	12	--	--
	15NS+96	43.6' RT	16NS+72	40.0' RT	--	--	--	--	--	33	--	--
	16NS+08	29.5' RT	16NS+68	29.5' RT	--	--	--	--	--	37	--	--
	17NS+06	40.0' RT	17NS+12	40.0' RT	--	--	--	--	--	2	--	--
	17NS+11	29.5' RT	17NS+37	27.4' RT	--	--	--	--	--	18	--	--
	17NS+18	39.9' RT	17NS+42	38.4' RT	--	--	--	--	--	11	--	--
	17NS+32	25.5' LT	17NS+37	30.5' LT	--	--	--	--	--	2	--	--
	17NS+52	37.8' RT	17NS+66	36.9' RT	--	--	--	--	--	5	--	--
	17NS+56	25.8' RT	17NS+95	23.9' RT	--	--	--	--	--	30	--	--
	17NS+70	36.7' RT	18NS+00	35.1' RT	--	--	--	--	--	10	--	--
	17NS+90	25.5' LT	18NS+07	25.5' LT	--	--	--	--	--	15	--	--
	18NS+08	34.7' RT	18NS+14	34.4' RT	--	--	--	--	--	2	--	--
	18NS+12	23.0' RT	19NS+20	22.5' RT	--	--	--	--	--	80	--	--
	18NS+17	34.3' RT	18NS+59	34.0' RT	--	--	--	--	--	19	--	--
	18NS+42	24.5' LT	18NS+78	22.7' LT	--	--	--	--	--	43	--	--
	18NS+62	34.0' RT	18NS+66	34.0' RT	--	--	--	--	--	1	--	--
	18NS+74	34.0' RT	19NS+20	34.0' RT	--	--	--	--	--	22	--	--
	18NS+96	22.5' LT	19NS+00	22.5' LT	--	--	--	--	--	7	--	--
	19NS+18	22.5' LT	19NS+20	22.5' LT	--	--	--	--	--	5	--	--
12TH STREET	10TWS+39	36.0' RT	10TWS+68	22.4' RT	--	--	--	--	--	22	--	--
	10TWS+38	43.4' LT	11TWS+87	24.5' LT	--	--	--	--	--	258	--	--
	10TWS+40	26.9' LT	11TWS+02	18.5' LT	--	--	--	--	--	32	--	--
	10TWS+65	32.5' RT	13TWS+14	24.5' RT	--	--	--	--	--	310	--	--
	12TWS+29	24.5' LT	13TWS+14	24.5' LT	--	--	--	--	--	32	--	--
SUBTOTAL					20	683	683	--	--	13,336	209	8
UNDISTRIBUTED					--	171	171	5	4	3,334	52	7
PROJECT 1517-75-76 TOTAL					20	854	854	5	4	16,670	261	15

INLET PROTECTION

ROADWAY	STATION	OFFSET	628.7005 INLET PROTECTION TYPE A EACH	628.7015 INLET PROTECTION TYPE C EACH	628.7020 INLET PROTECTION TYPE D EACH	NOTES
PROJECT 1517-75-76						
RACINE ROAD NB	13RNB+23	22' RT	1	--	1	
	13RNB+23	21' LT	1	--	1	
	13RNB+46	22' RT	1	--	--	EXISTING INLET
	13RNB+47	20' LT	1	--	--	EXISTING INLET
	15RNB+09	22' RT	1	1	--	
	15RNB+09	23' LT	1	1	--	
	15RNB+18	23' LT	1	--	--	EXISTING INLET
	15RNB+23	24' RT	1	--	--	EXISTING INLET
	16RNB+67	30' RT	1	1	--	
	16RNB+67	42' LT	1	1	--	
	18RNB+26	64' RT	1	--	--	EXISTING INLET
	18RNB+47	30' RT	1	1	--	
	19RNB+36	44' LT	1	1	--	
	19RNB+42	30' RT	1	1	--	
	19RNB+96	64' RT	1	--	1	
	20RNB+86	62' RT	1	--	1	
	21RNB+10	187' RT	1	--	--	EXISTING INLET
	21RNB+10	30' RT	1	1	--	
	21RNB+31	145' RT	1	--	--	EXISTING INLET
	22RNB+26	30' RT	1	1	--	
	22RNB+71	2' LT	1	1	--	
	22RNB+80	27' RT	1	--	1	
	23RNB+23	30' RT	1	1	--	
	26RNB+29	19' RT	1	1	--	
	26RNB+60	19' RT	1	--	1	
	26RNB+60	2' LT	1	--	1	
	28RNB+46	19' RT	1	1	--	
	28RNB+66	3' LT	1	1	--	
	31RNB+13	18' RT	1	1	--	
	31RNB+50	18' RT	1	--	1	
	31RNB+50	18' LT	1	--	1	
	31RNB+68	18' RT	1	1	--	
	31RNB+69	38' RT	1	--	1	
	31RNB+99	18' LT	1	1	--	
	33RNB+86	18' LT	1	1	--	
	34RNB+06	35' RT	1	1	--	

INLET PROTECTION (CONTINUED)

ROADWAY	STATION	OFFSET	628.7005 INLET PROTECTION TYPE A EACH	628.7015 INLET PROTECTION TYPE C EACH	628.7020 INLET PROTECTION TYPE D EACH	NOTES
PROJECT 1517-75-76						
RACINE ROAD SB	21RSB+14	30' LT	1	1	--	
	22RSB+36	37' LT	1	1	--	
	23RSB+13	2' RT	1	--	1	
	23RSB+16	18' LT	1	--	1	
	26RSB+16	19' LT	1	1	--	
	26RSB+61	19' LT	1	--	1	
	26RSB+60	2' RT	1	--	1	
	26RSB+78	5' LT	1	1	--	EXISTING INLET
	26RSB+99	11' RT	1	--	--	EXISTING INLET
	28RSB+58	5' RT	1	1	--	
RACINE ROAD CONNECTOR NB	237CNB+61	26' RT	1	1	--	
	238CNB+18	48' RT	1	--	1	
	238CNB+20	2' LT	1	--	1	
	239CNB+17	3' LT	1	1	--	
	239CNB+20	41' RT	1	1	--	
	242CNB+85	38' RT	1	1	--	
	243CNB+45	2' LT	1	--	1	
	243CNB+45	38' RT	1	--	1	
RACINE ROAD CONNECTOR SB	237CSB+49	29' LT	1	--	1	
	237CSB+62	1' RT	1	--	1	
	239CSB+01	1' RT	1	1	--	
	239CSB+03	26' LT	1	1	--	
	243CSB+50	2' RT	1	--	1	
	243CSB+35	26' LT	1	--	1	
	10RSEC+38	47' LT	1	--	--	EXISTING INLET
RACINE ROAD SE BYPASS	11RSEC+64	2' RT	1	1	--	
	11RSEC+72	44' LT	1	--	--	EXISTING INLET
	12RSEC+12	17' LT	1	1	--	
	13RSEC+25	18' LT	1	1	--	
	13RSEC+25	2' RT	1	1	--	
RACINE ROAD SW BYPASS	18RSWC+51	2' LT	1	1	--	
	18RSWC+74	2' LT	1	1	--	
	18RSWC+74	19' RT	1	1	--	
	23RSWC+52	2' LT	1	1	--	
	23RSWC+52	19' RT	1	1	--	
	25RSWC+13	25' RT	1	1	--	
	25RSWC+75	2' LT	1	--	1	
	25RSWC+70	27' RT	1	--	1	
	25RSWC+89	26' RT	1	--	1	

INLET PROTECTION (CONTINUED)

ROADWAY	STATION	OFFSET	628.7005 INLET PROTECTION TYPE A EACH	628.7015 INLET PROTECTION TYPE C EACH	628.7020 INLET PROTECTION TYPE D EACH	NOTES
PROJECT 1517-75-76						
RACINE ROAD ROUNDABOUT	10RRT+04	2' LT	1	1	--	
	10RRT+50	32' RT	1	1	--	
	12RRT+08	31' RT	1	1	--	
	12RRT+46	1' LT	1	1	--	
	13RRT+22	22' RT	1	1	--	
	13RRT+36	2' LT	1	1	--	
	13RRT+62	2' LT	1	--	1	
	13RRT+96	22' RT	1	1	--	
	13NS+40	17' LT	1	--	--	EXISTING INLET
9TH STREET	13NS+84	25' RT	1	1	--	
	13NS+85	17' LT	1	1	--	
	16NS+09	27' RT	1	--	--	EXISTING INLET
	16NS+09	22' LT	1	--	--	EXISTING INLET
	16NS+21	29' RT	1	--	1	
	16NS+36	25' LT	1	--	1	
	16NS+56	29' RT	1	1	--	
	16NS+68	25' LT	1	1	--	
9TH STREET	17NS+59	25' LT	1	1	--	
	17NS+61	25' RT	1	1	--	
12TH STREET	10TWS+57	19' LT	1	--	1	
	10TWS+75	20' RT	1	--	1	
	11TWS+27	18' LT	1	1	--	
	11TWS+29	18' RT	1	1	--	
	11TWS+69	18' LT	1	--	--	EXISTING INLET
	11TWS+72	12' LT	1	--	--	EXISTING INLET
	11TWS+85	20' RT	1	--	--	EXISTING INLET
PROJECT 1517-75-76 TOTAL			101	55	30	

TRACKING PADS

ROADWAY	628.7560 TRACKING PADS EACH
UNDISTRIBUTED	2
PROJECT 1517-75-76 TOTAL	2

FIELD OFFICE TYPE D

ROADWAY	642.5401 FIELD OFFICE TYPE D EACH
PROJECT 1517-75-76	1
PROJECT 1517-75-76 TOTAL	1

TRAFFIC CONTROL ITEMS

ROADWAY	STAGE DURATION DAYS	616.0700.S FENCE SAFETY LF	643.0200 TRAFFIC CONTROL SURVEILLANCE AND MAINTENANCE (1517-75-76) DAYS	643.0300 TRAFFIC CONTROL DRUMS EACH*	643.0300 DAYS	643.0410 TRAFFIC CONTROL BARRICADES TYPE II EACH*	643.0410 DAYS	643.0420 TRAFFIC CONTROL BARRICADES TYPE III EACH*	643.0420 DAYS	643.0705 TRAFFIC CONTROL WARNING LIGHTS TYPE A EACH*	643.0705 DAYS	643.0715 TRAFFIC CONTROL WARNING LIGHTS TYPE C EACH*	643.0715 DAYS	643.0910** TRAFFIC CONTROL COVERING SIGNS TYPE I # CYCLES*	643.0910** EACH	643.0920** TRAFFIC CONTROL COVERING SIGNS TYPE II # CYCLES*	643.0920** EACH	643.0900 TRAFFIC CONTROL SIGNS EACH*	643.0900 DAYS
PRE-CONSTRUCTION	7	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
STAGE 1A CONSTRUCTION	29		29																
EB&WB US 10/STH 441 EXIT RAMP		--	--	50	1,450	--	--	8	232	16	464	10	290	1	2	1	2	26	754
RACINE ROAD		219	--	--	--	1	29	20	580	42	1,218	--	--	--	--	--	--	19	551
9TH STREET		257	--	--	--	--	--	20	580	40	1,160	--	--	--	--	--	--	19	551
12TH STREET		--	--	--	--	--	--	5	145	10	290	--	--	--	--	--	--	4	116
STAGE 1A SUBTOTAL		476	29		1,450		29		1,537		3,132		290		2		2		1,972
STAGE 1B CONSTRUCTION	24		24																
EB&WB US 10/STH 441 EXIT RAMP		--	--	50	1,200	--	--	8	192	16	384	10	240	1	2	1	2	26	624
RACINE ROAD		109	--	--	--	1	24	19	456	40	960	--	--	--	--	--	--	19	456
9TH STREET		--	--	--	--	--	--	18	432	36	864	--	--	--	--	--	--	18	432
12TH STREET		--	--	--	--	--	--	5	120	10	240	--	--	--	--	--	--	4	96
STAGE 1B SUBTOTAL		109	24		1,200		24		1,200		2,448		240		2		2		1,608
STAGE 2 CONSTRUCTION	47		47																
EB&WB US 10/STH 441 EXIT RAMP		--	--	50	2,350	--	--	8	376	16	752	10	470	--	--	--	--	26	1,222
RACINE ROAD		--	--	18	522	1	29	36	1,692	74	3,478	--	--	--	--	1	2	25	1,175
9TH STREET		--	--	18	522	--	--	5	235	10	470	--	--	--	--	--	--	5	235
12TH STREET		--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	1	47
STAGE 2 SUBTOTAL		--	47		3,394		29		2,303		4,700		470		--		2		2,679
UNDISTRIBUTED		100	--		--		--		--		--		--	--	5	--	25		--
PROJECT 1517-75-76 TOTAL		685	100		6,044		82		5,040		10,280		1,000		9		31		6,259

* FOR INFORMATION ONLY

** ADDITIONAL QUANTITIES FOUND ELSEWHERE

TRAFFIC CONTROL SIGNS FIXED MESSAGE

ROADWAY	SIGN NO.	SIGN SIZE W X H (FT X FT)	643.1000 TRAFFIC CONTROL SIGNS FIXED MESSAGE SF	SIGN MESSAGE
RACINE ROAD	101	4.0 X 1.2	4.80	RACINE RD
	102	4.0 X 1.2	4.80	RACINE RD
	103	4.0 X 1.2	4.80	RACINE RD
	104	4.0 X 1.2	4.80	RACINE RD
9TH STREET	105	3.0 X 1.2	3.60	9TH ST
	106	3.0 X 1.2	3.60	9TH ST
	107	3.0 X 1.2	3.60	9TH ST
	108	3.0 X 1.2	3.60	9TH ST
PROJECT 1517-75-76 TOTAL			33.60	

TEMPORARY PAVEMENT MARKING

ROADWAY	649.0400 TEMPORARY PAVEMENT MARKING REMOVABLE TAPE 4-INCH WHITE LF	646.0690.S REMOVING PAVEMENT MARKINGS WATER BLASTING LF
PROJECT 1517-75-76		
EXIT RAMP CLOSURES	200	200
PROJECT 1517-75-76 TOTAL	200	200

3

STREET SWEEPING

LOCATION	SPV.0075.001 STREET SWEEPING HRS
UNDISTRIBUTED	50
PROJECT 1517-75-76	50

JOINT LAYOUT

ROADWAY	SPV.0105.003 CONCRETE PAVEMENT JOINT LAYOUT LS
PROJECT 1517-75-76	1
PROJECT 1517-75-76 TOTAL	1

SURVEY PROJECT

ROADWAY	SPV.0105.002 SURVEY PROJECT 1517-75-76 LS
PROJECT 1517-75-76	1
PROJECT 1517-75-76 TOTAL	1

SANITARY & WATER VALVE ADJUSTMENTS

CATEGORY	ROADWAY	STATION	OFFSET	SPV.0060.650 ADJUSTING SANITARY MANHOLE COVERS EACH	SPV.0060.651 ADJUSTING WATER VALVES EACH	SPV.0060.652 ADJUSTING WATER CURB STOPS EACH	REMARKS
PROJECT 1517-75-76							
1710	RACINE ROAD	12RNB+73	1' RT	1	--	--	CITY OF MENASHA
		15RNB+46	1' LT	1	--	--	CITY OF MENASHA
		15RNB+67	2' LT	1	--	--	CITY OF MENASHA
CATEGORY 1710 TOTALS				3	--	--	
PROJECT 1517-75-76							
1700	RACINE ROAD	15RNB+94	25' LT	--	1	--	TOWN OF MENASHA
		17RNB+71	7' LT	--	1	--	TOWN OF MENASHA
		31RNB+53	91' RT	--	--	1	TOWN OF MENASHA
		33RNB+03	36' RT	1	--	--	TOWN OF MENASHA
		33RNB+18	28' RT	--	1	--	TOWN OF MENASHA
		33RNB+23	40' RT	--	1	--	TOWN OF MENASHA
		34RNB+05	39' RT	--	--	1	TOWN OF MENASHA
		34RNB+63	36' RT	--	--	1	TOWN OF MENASHA
		35RNB+65	28' LT	1	--	--	TOWN OF MENASHA
	9TH STREET	13NS+46	21' LT	--	1	--	TOWN OF MENASHA
		13NS+49	0' RT	--	1	--	TOWN OF MENASHA
		13NS+56	12' RT	1	--	--	TOWN OF MENASHA
	12TH STREET	10TWS+29	14' LT	--	1	--	TOWN OF MENASHA
		10TWS+51	23' RT	--	1	--	TOWN OF MENASHA
		10TWS+82	17' LT	1	--	--	TOWN OF MENASHA
		11TWS+32	27' LT	1	--	--	TOWN OF MENASHA
		11TWS+48	44' LT	--	1	--	TOWN OF MENASHA
		11TWS+51	42' LT	--	1	--	TOWN OF MENASHA
		11TWS+57	18' LT	--	1	--	TOWN OF MENASHA
CATEGORY 1700 TOTALS				5	11	3	
PROJECT 1517-75-76 TOTAL				8	11	3	

PAVEMENT MARKING

ROADWAY	STATION	646.0106 PAVEMENT MARKING EPOXY 4-INCH YELLOW LF	646.0106 PAVEMENT MARKING EPOXY 4-INCH WHITE LF	646.0106 PAVEMENT MARKING EPOXY 4-INCH 3 FT LINE 9 FT SKIP WHITE LF	646.0106 PAVEMENT MARKING EPOXY 4-INCH 3 FT LINE 9 FT SKIP YELLOW LF	646.0126 PAVEMENT MARKING EPOXY 8-INCH WHITE LF	646.0126 PAVEMENT MARKING EPOXY 8-INCH 1 FT LINE 3 FT SKIP WHITE LF	646.0126 PAVEMENT MARKING EPOXY 8-INCH 3 FT LINE 9 FT SKIP WHITE LF	646.0126 PAVEMENT MARKING EPOXY 8-INCH 6 FT LINE 3 FT SKIP WHITE LF	646.0841.S PAVMENT MARKING GROOVED WET REFLECTIVE CONTRAST TAPE 4-INCH 12.5 FT LINE 37.5 FT SKIP WHITE LF	646.0843.S PAVEMENT MARKING GROOVED WET REFLECTIVE CONTRAST TAPE 8-INCH WHITE LF	646.0843.S PAVEMENT MARKING GROOVED WET REFLECTIVE CONTRAST TAPE 8-INCH 3 FT LINE 9 FT SKIP WHITE LF	646.0156 PAVEMENT MARKING EPOXY 18-INCH 2 FT LINE 2 FT SKIP WHITE LF	647.0110 PAVEMENT MARKING RAILROAD CROSSINGS EPOXY EACH	647.0206 PAVEMENT MARKING ARROWS BIKE LANE EPOXY EACH	647.0306 PAVEMENT MARKING SYMBOLS BIKE LANE EPOXY EACH
PROJECT 1517-75-76																
RACINE ROAD NB	12RNB+50 - 35RNB+77	1,909	1,075	21	25	252	--	--	--	119	277	--	--	--	1	1
RACINE ROAD SB	20RSB+61 - 28RSB+65	1,819	1,115	255	24	364	--	37	--	--	522	--	--	--	3	3
RACINE ROAD CONNECTOR NB	236CNB+63 - 243CNB+93	--	--	--	--	--	--	--	--	125	217	--	--	1	--	--
RACINE ROAD CONNECTOR SB	236CSB+65 - 243CSB+83	--	--	--	--	--	--	--	--	166	328	115	--	--	--	--
RACINE ROAD SE BYPASS	11RSEC+52 - 14RSEC+04	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
RACINE ROAD SW BYPASS	18RSWC+63 - 26RSWC+99	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
RACINE ROAD ROUNDABOUT	10RRT+00 - 14RRT+61	--	--	--	--	59	13	--	215	--	--	--	80	--	--	--
9TH STREET	13NS+31 - 19NS+20	940	--	--	--	336	--	28	--	--	--	--	--	--	--	--
12TH STREET	10TWS+17 - 13TWS+14	275	--	--	--	--	--	--	--	--	--	--	--	--	--	--
SUBTOTAL		4,943	2,190	276	49	1,011	13	65	215	410	1,344	115	80	1	4	4
PROJECT 1517-75-76 TOTAL		7,458				1,304				410	1,459		80	1	4	4

PAVEMENT MARKING (Continued)

ROADWAY	STATION	647.0406 PAVEMENT MARKING WORDS BIKE LANE EPOXY EACH	647.0566 PAVEMENT MARKING STOP LINE EPOXY 18-INCH LF	647.0726 PAVEMENT MARKING ISLAND NOSE EPOXY YELLOW EACH	647.0726 PAVEMENT MARKING DIAGONAL EPOXY 12-INCH YELLOW LF	647.0766 PAVEMENT MARKING CROSSWALK EPOXY 6-INCH WHITE LF	SPV.0060.001 PAVT MARKING GROOVED CONTRAST PREFORMED THERMOPLASTIC ARROWS, TYPE 1 EACH	SPV.0060.002 PAVT MARKING GROOVED CONTRAST PREFORMED THERMOPLASTIC ARROWS, TYPE 2R EACH	SPV.0060.003 PAVT MARKING GROOVED CONTRAST PREFORMED THERMOPLASTIC ARROWS, TYPE 2 EACH	SPV.0060.004 PAVT MARKING GROOVED CONTRAST PREFORMED THERMOPLASTIC ARROWS, TYPE 3R EACH	SPV.0060.005 PAVT MARKING GROOVED CONTRAST PREFORMED THERMOPLASTIC ARROWS, TYPE 3 EACH	SPV.0060.006 PAVT MARKING GROOVED CONTRAST PREFORMED THERMOPLASTIC WORDS EACH	SPV.0090.005 PAVT MARKING GROOVED CONTRAST PREFORMED THERMOPLASTIC CROSSWALK 6-INCH LF
PROJECT 1517-75-76													
RACINE ROAD NB	12RNB+50 - 35RNB+77	3	32	2	143	140	--	2	2	--	2	2	109
RACINE ROAD SB	20RSB+61 - 28RSB+65	3	41	--	--	111	--	--	5	--	--	5	--
RACINE ROAD CONNECTOR NB	236CNB+63 - 243CNB+93	--	--	--	--	--	--	--	--	--	--	2	68
RACINE ROAD CONNECTOR SB	236CSB+65 - 243CSB+83	--	--	--	--	--	--	2	2	--	--	--	56
RACINE ROAD SE BYPASS	11RSEC+52 - 14RSEC+04	--	--	--	--	--	--	--	1	--	--	--	--
RACINE ROAD SW BYPASS	18RSWC+63 - 26RSWC+99	--	--	--	--	--	--	--	--	--	--	--	--
RACINE ROAD ROUNDABOUT	10RRT+00 - 14RRT+61	--	--	--	--	--	1	--	1	1	1	5	--
9TH STREET	13NS+31 - 19NS+20	--	58	--	--	209	--	--	6	--	--	3	--
12TH STREET	10TWS+17 - 13TWS+14	--	21	--	--	140	--	--	--	--	--	--	--
SUBTOTAL		6	152	2	143	600	1	4	17	1	3	17	233
PROJECT 1517-75-76 TOTAL		6	152	2	143	600	1	4	17	1	3	17	233

SAWING PAVEMENT

STAGE	ROADWAY	FROM STATION	FROM OFFSET	TO STATION	TO OFFSET	690.0150 SAWING ASPHALT LF	690.0250 SAWING CONCRETE LF
PROJECT 1517-75-76							
	RACINE ROAD NB	12RNB+50	26.5' LT	12RNB+50	31.0' LT	--	5
		12RNB+50	19.5' LT	12RNB+50	21.0' RT	41	--
		12RNB+50	27.5' RT	12RNB+50	32.5' RT	--	5
		12RNB+50	36.5' LT	12RNB+53	36.5' LT	--	4
		12RNB+57	37.0' RT	12RNB+59	37.0' RT	--	2
		12RNB+68	36.5' LT	12RNB+78	36.5' LT	11	--
		13RNB+00	36.5' LT	13RNB+03	36.5' LT	--	3
		13RNB+16	36.5' LT	13RNB+29	36.5' LT	--	13
		13RNB+38	42.5' RT	13RNB+41	42.5' RT	--	3
		13RNB+57	36.5' LT	13RNB+60	36.5' LT	--	3
		13RNB+67	37.0' RT	13RNB+92	37.0' RT	26	--
		13RNB+77	36.5' LT	13RNB+87	36.5' LT	--	10
		13RNB+93	36.5' LT	14RNB+04	36.5' LT	--	11
		14RNB+11	37.0' RT	14RNB+39	37.0' RT	28	--
		14RNB+19	39.5' LT	14RNB+23	39.5' LT	--	3
		14RNB+47	45.0' LT	15RNB+09	45.0' LT	62	--
		16RNB+10	74.3' LT	17RNB+48	74.3' LT	138	--
		16RNB+12	54.8' RT	17RNB+28	61.2' RT	116	--
		18RNB+22	72.3' RT	18RNB+39	78.9' RT	18	--
		19RNB+52	121.9' RT	19RNB+88	136.7' RT	--	36
		20RNB+30	154.7' RT	20RNB+74	178.4' RT	--	50
		24RNB+51	250.2' RT	24RNB+66	242.4' RT	--	60
		31RNB+33	94.6' RT	31RNB+66	87.2' RT	36	--
		33RNB+51	49.8' RT	33RNB+71	48.6' RT	22	--
		34RNB+12	47.0' RT	34RNB+23	46.7' RT	11	--
		35RNB+02	24.0' LT	35RNB+02	29.0' LT	--	5
		35RNB+02	24.0' RT	35RNB+02	29.0' RT	--	5
		35RNB+77	15.4' LT	35RNB+77	14.9' RT	30	--
	RACINE ROAD CONNECTOR NB	243CNB+91	38.5' RT	243CNB+93	8.0' LT	--	47
	RACINE ROAD CONNECTOR SB	243CSB+83	8.0' RT	243CSB+84	31.5' LT	--	40
	RACINE ROAD SW BYPASS	18RSWC+63	19.5' RT	18RSWC+64	7.5' LT	--	27
	9TH STREET	13NS+23	35.2' RT	13NS+23	40.0' RT	--	5
		13NS+32	26.4' RT	13NS+32	19.6' LT	--	47
		13NS+39	47.0' RT	13NS+49	46.7' RT	--	10
		13NS+54	46.6' RT	13NS+66	46.3' RT	12	--
		13NS+80	46.2' RT	13NS+84	46.2' RT	--	4
		14NS+16	45.0' RT	15NS+03	45.0' RT	87	--
		14NS+21	29.6' LT	14NS+42	29.6' LT	21	--
		16NS+17	36.5' LT	17S+31	37.3' LT	115	--
		16NS+68	45.5' RT	17NS+06	49.5' RT	41	--
		17NS+12	45.0' RT	17NS+18	45.0' RT	--	4
		17NS+37	36.5' LT	17NS+85	36.5' LT	48	--
		17NS+43	43.4' RT	17NS+52	42.8' RT	--	9

SAWING PAVEMENT

STAGE	ROADWAY	FROM STATION	FROM OFFSET	TO STATION	TO OFFSET	690.0150 SAWING ASPHALT LF	690.0250 SAWING CONCRETE LF
PROJECT 1517-75-76							
	9TH STREET (CONT.)	17NS+66	41.9' RT	17NS+70	41.7' RT	--	4
		18NS+00	40.1' RT	18NS+08	39.7' RT	--	8
		18NS+14	39.4' RT	18NS+17	39.3' RT	--	3
		18NS+59	39.0' RT	18NS+62	39.0' RT	--	3
		18NS+66	39.0' RT	18NS+74	39.0' RT	--	8
		18NS+83	32.0' LT	18NS+91	32.0' LT	--	8
		19NS+23	29.0' RT	19NS+23	34.0' RT	--	5
		19NS+23	22.5' RT	19NS+23	22.5' LT	--	45
	12TH STREET	11TWS+84	79.5' LT	12TWS+29	38.5' LT	71	--
PROJECT 1517-75-76 TOTAL						933	490

3

FILE NAME: I:\56537\1517-75-76\t1\cds\030201_mq.ppt PLOT DATE : 1/29/2016 1:42:55 PM PLOT BY : HNTB CORP. PLOT NAME : PLOT SCALE : 1:1

CATEGORY	PROJECT NUMBER	632.9101 LANDSCAPE PLANTING SURVEILLANCE AND CARE CYCLES EACH
1400	1517-75-76	24
	TOTALS	24

Items are category 1400

			EROSION CONTROL PLANTING LAYOUT SHEET NUMBERS				TOTALS
			2	3	4	5	
BID ITEMS	SYM.	COMMON NAME	EACH	EACH	EACH	EACH	EACH
		DECIDUOUS TREES (SHADE)					
632.0101.0001	AB	Maple, Autumn Blaze	4	1	2	1	8
632.0101.0003	SWO	Oak, Swamp White	4	1	2		7

STORM SEWER PIPES

FROM STR	TO STR	INVERT ELEV FT	DISCH ELEV FT	SLOPE	608.0312 STORM SEWER PIPE REINFORCED CONCRETE CLASS III 12-INCH LF	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	608.0342 STORM SEWER PIPE REINFORCED CONCRETE CLASS III 42-INCH LF	610.0424 STORM SEWER PIPE REINFORCED HORIZONTAL ELLIPTICAL CLASS HE-IV 24X38-INCH LF	610.0429 STORM SEWER PIPE REINFORCED HORIZONTAL ELLIPTICAL CLASS HE-IV 29X45-INCH LF
9TH STREET 1517-75-76												
100	109	753.72	753.70	0.26%	--	--	--	8	--	--	--	--
107	108	756.30	756.00	0.85%	35	--	--	--	--	--	--	--
108	109	755.75	754.96	2.24%	--	35	--	--	--	--	--	--
110	111	755.80	755.36	2.20%	20	--	--	--	--	--	--	--
111	109	755.11	754.96	0.67%	--	22	--	--	--	--	--	--
109	112	753.70	753.25	0.58%	--	--	--	78	--	--	--	--
112	116	752.18	751.64	0.34%	--	--	--	--	159	--	--	--
115	116	754.15	754.00	0.46%	--	33	--	--	--	--	--	--
117	116	754.14	754.00	1.59%	--	9	--	--	--	--	--	--
116	118	751.64	751.48	0.44%	--	--	--	--	37	--	--	--
9TH STREET 1517-75-76 SUBTOTALS					55	99	--	86	196	--	--	--
RACINE ROAD 1517-75-76												
309	311	757.10	757.00	0.27%	37	--	--	--	--	--	--	--
310	311	757.05	757.00	0.75%	7	--	--	--	--	--	--	--
311	314	753.36	752.86	0.27%	185	--	--	--	--	--	--	--
316	314	757.00	756.90	0.27%	39	--	--	--	--	--	--	--
313	314	756.95	756.90	0.89%	6	--	--	--	--	--	--	--
314	112	752.86	752.71	0.21%	--	--	73	--	--	--	--	--
321	319	754.90	754.70	0.42%	--	39	--	--	--	--	--	--
318	319	756.28	756.10	0.73%	--	32	--	--	--	--	--	--
319	112	754.40	754.05	0.40%	--	--	87	--	--	--	--	--
239	240	751.96	751.71	0.71%	--	35	--	--	--	--	--	--
240	242	751.71	751.24	0.85%	--	56	--	--	--	--	--	--
241	242	751.44	751.24	0.47%	--	42	--	--	--	--	--	--
242	243	751.24	750.91	0.48%	--	68	--	--	--	--	--	--
243	244	750.91	750.78	0.46%	--	29	--	--	--	--	--	--
244	245	750.78	750.75	0.40%	--	8	--	--	--	--	--	--
245	246	750.50	750.36	0.27%	--	--	53	--	--	--	--	--
246	258	749.86	749.49	0.24%	--	--	--	155	--	--	--	--
247	248	751.82	751.59	0.75%	31	--	--	--	--	--	--	--
248	250	751.34	751.09	1.25%	--	20	--	--	--	--	--	--
250	251	751.09	750.83	0.77%	--	34	--	--	--	--	--	--
251	252	750.83	750.57	1.30%	--	20	--	--	--	--	--	--
252	256	750.57	750.17	1.60%	--	25	--	--	--	--	--	--
256	258	749.92	749.88	0.41%	--	--	10	--	--	--	--	--
257	258	750.26	750.13	1.39%	--	9	--	--	--	--	--	--
253	254	751.23	750.97	0.47%	56	--	--	--	--	--	--	--

GENERAL NOTES

1) STATIONS AND OFFSETS ARE TO THE CENTER OF STRUCTURES OR TO THE APRON END OF ENDWALLS UNLESS OTHERWISE NOTED.
2) RIM ELEVATIONS ARE GIVEN AT THE FLANGE LINE FOR INLET GRATES OR THE CENTER OF THE MANHOLE COVER FOR MANHOLES UNLESS OTHERWISE NOTED.
3) STRUCTURE DEPTH = RIM ELEVATION - INVERT - CASTING - 0.5 FT(RINGS AND MORTER) , EXCEPT MEDIAN INLETS.
4) FLAT TOP SLAB REQUIRED ON ALL MANHOLES WITH INLET COVERS.
5) SEE SPECIAL PROVISIONS FOR ADJUSTMENT RING REQUIREMENTS.

STORM SEWER PIPES (CONT.)

FROM STR	TO STR	INVERT ELEV FT	DISCH ELEV FT	SLOPE	608.0312 STORM SEWER PIPE REINFORCED CONCRETE CLASS III 12-INCH LF	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	608.0342 STORM SEWER PIPE REINFORCED CONCRETE CLASS III 42-INCH LF	610.0424 STORM SEWER PIPE REINFORCED HORIZONTAL ELLIPTICAL CLASS HE-IV 24X38-INCH LF	610.0429 STORM SEWER PIPE REINFORCED HORIZONTAL ELLIPTICAL CLASS HE-IV 29X45-INCH LF
254	255	750.72	750.58	0.49%	--	29	--	--	--	--	--	--
255	256	750.58	750.17	1.26%	--	33	--	--	--	--	--	--
258	259	749.49	749.38	0.22%	--	--	--	50	--	--	--	--
259	264	749.38	749.26	0.23%	--	--	--	52	--	--	--	--
260	264	750.04	750.01	0.32%	--	9	--	--	--	--	--	--
264	263	749.26	749.15	0.23%	--	--	--	47	--	--	--	--
262	261	750.38	750.18	2.78%	7	--	--	--	--	--	--	--
261	263	749.93	749.90	0.30%	--	10	--	--	--	--	--	--
263	268	749.15	749.02	0.23%	--	--	--	56	--	--	--	--
265	267	751.97	749.63	2.64%	--	--	89	--	--	--	--	--
267	268	749.63	749.52	1.19%	--	--	9	--	--	--	--	--
268	270	749.02	748.78	0.24%	--	--	--	99	--	--	--	--
269	270	749.65	749.53	1.43%	--	8	--	--	--	--	--	--
270	271	748.78	748.70	0.23%	--	--	--	35	--	--	--	--
271	272	748.70	748.68	0.15%	--	--	--	14	--	--	--	--
272	273	748.68	748.62	0.22%	--	--	--	27	--	--	--	--
273	274	748.62	748.60	0.17%	--	--	--	12	--	--	--	--
274	276	748.60	748.58	0.19%	--	--	--	11	--	--	--	--
275	276	749.90	749.80	1.05%	--	10	--	--	--	--	--	--
220	214	756.05	756.00	0.67%	--	--	8	--	--	--	--	--
214	215	754.13	752.22	1.00%	--	--	191	--	--	--	--	--
215	216	752.22	751.45	1.30%	--	--	59	--	--	--	--	--
216	219	751.45	750.45	1.32%	--	--	75	--	--	--	--	--
219	225	750.45	749.61	1.29%	--	--	65	--	--	--	--	--
235	236	750.44	750.10	0.70%	--	49	--	--	--	--	--	--
236	237	750.10	749.68	1.29%	--	33	--	--	--	--	--	--
237	238	749.42	749.35	0.24%	--	--	29	--	--	--	--	--
230	231	750.49	750.22	1.08%	--	25	--	--	--	--	--	--
231	232	750.22	750.10	0.43%	--	28	--	--	--	--	--	--
232	237	750.10	749.68	0.57%	--	73	--	--	--	--	--	--
203	202	753.21	753.12	0.43%	--	21	--	--	--	--	--	--
200	201	754.34	753.63	0.77%	93	--	--	--	--	--	--	--
292	201	753.89	753.37	0.85%	--	61	--	--	--	--	--	--
201	202	753.37	753.12	0.47%	--	53	--	--	--	--	--	--
202	206	752.87	751.11	1.01%	--	--	174	--	--	--	--	--
295	205	751.92	751.73	0.48%	--	40	--	--	--	--	--	--
205	206	751.73	751.35	0.49%	--	78	--	--	--	--	--	--
204	206	751.39	751.35	0.35%	--	12	--	--	--	--	--	--
206	208	751.11	749.98	0.89%	--	--	127	--	--	--	--	--
207	208	750.64	750.48	1.39%	12	--	--	--	--	--	--	--
208	233	749.98	749.42	0.71%	--	--	79	--	--	--	--	--
217	210	750.54	750.37	0.54%	--	32	--	--	--	--	--	--
209	210	750.97	750.62	0.42%	53	--	--	--	--	--	--	--
210	211	750.12	749.99	0.44%	--	--	30	--	--	--	--	--
211	212	749.99	749.77	0.46%	--	--	48	--	--	--	--	--
212	213	749.77	749.68	0.47%	--	--	19	--	--	--	--	--
213	233	749.68	749.42	1.34%	--	--	19	--	--	--	--	--
233	225	749.17	749.11	0.15%	--	--	--	--	--	--	46	--
225	226	749.11	749.02	0.24%	--	--	--	--	--	--	38	--

STORM SEWER PIPES (CONT.)

FROM STR	TO STR	INVERT ELEV FT	DISCH ELEV FT	SLOPE	608.0312 STORM SEWER PIPE REINFORCED CONCRETE CLASS III 12-INCH LF	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	608.0342 STORM SEWER PIPE REINFORCED CONCRETE CLASS III 42-INCH LF	610.0424 STORM SEWER PIPE REINFORCED HORIZONTAL ELLIPTICAL CLASS HE-IV 24X38-INCH LF	610.0429 STORM SEWER PIPE REINFORCED HORIZONTAL ELLIPTICAL CLASS HE-IV 29X45-INCH LF
226	228	749.02	748.99	0.22%	--	--	--	--	--	--	14	--
227	228	749.87	749.75	0.42%	--	29	--	--	--	--	--	--
228	229	748.99	748.89	0.24%	--	--	--	--	--	--	42	--
229	238	748.89	748.83	0.27%	--	--	--	--	--	--	23	--
238	276	748.83	748.58	0.19%	--	--	--	--	--	--	--	132
276	277	748.58	748.34	0.12%	--	--	--	--	--	207	--	--
277	290	748.34	748.10	0.12%	--	--	--	--	--	222	--	--
278	280	753.30	753.02	0.47%	59	--	--	--	--	--	--	--
280	282	752.77	752.49	0.72%	--	39	--	--	--	--	--	--
282	288	752.49	752.40	0.45%	--	20	--	--	--	--	--	--
288	287	752.40	752.26	0.45%	--	27	--	--	--	--	--	--
284	286	753.99	753.90	0.45%	--	20	--	--	--	--	--	--
285	286	754.21	754.15	0.38%	16	--	--	--	--	--	--	--
286	287	753.90	753.66	0.88%	--	27	--	--	--	--	--	--
287	290	752.01	751.17	2.00%	--	--	35	--	--	--	--	--
290	291	748.10	748.08	0.12%	--	--	--	--	--	20	--	--
405	406	750.12	749.79	0.69%	--	48	--	--	--	--	--	--
406	407	749.79	749.74	0.42%	--	12	--	--	--	--	--	--
401	402	750.16	750.00	0.43%	--	37	--	--	--	--	--	--
402	403	750.00	749.91	0.48%	--	19	--	--	--	--	--	--
411	403	750.00	749.91	0.43%	--	21	--	--	--	--	--	--
403	407	749.91	749.74	0.44%	--	39	--	--	--	--	--	--
407	410	748.99	748.35	0.35%	--	--	--	184	--	--	--	--
408	410	753.79	753.14	1.14%	--	57	--	--	--	--	--	--
410	412	748.35	748.32	0.37%	--	--	--	8	--	--	--	--
RACINE ROAD 1517-75-76 SUBTOTALS					599	1,413	1,280	750	--	449	162	132
PROJECT 1517-75-76 TOTAL					654	1,512	1,280	836	196	449	162	132

STORM SEWER STRUCTURES

STRUCTURE NUMBER	STATION	OFFSET	FLANGE OR RIM ELEV	LOWEST INVERT	DEPTH	520.8000 CONCRETE COLLARS FOR PIPE EACH	522.1018 APRON ENDWALLS FOR CULVERT PIPE REINFORCED CONCRETE 18-INCH EACH	611.0535 MANHOLE COVERS TYPE J-SPECIAL EACH	611.0639 INLET COVERS TYPE H-S EACH	611.0624 INLET COVERS TYPE H EACH	611.0642 INLET COVERS TYPE MS EACH	611.0651 INLET COVERS TYPE S EACH	611.0652 INLET COVERS TYPE T EACH	611.2004 MANHOLES 4-FT DIAMETER EACH	611.2005 MANHOLES 5-FT DIAMETER EACH	611.2006 MANHOLES 6-FT DIAMETER EACH	611.2007 MANHOLES 7-FT DIAMETER EACH	611.2008 MANHOLES 8-FT DIAMETER EACH	611.3004 INLETS 4-FT DIAMETER EACH	611.3230 INLETS 2x3-FT EACH	611.3901 INLETS MEDIAN 1 GRATE EACH	633.5200 MARKERS CULVERT END EACH	611.9800.S PIPE GRATES EACH	SPV.0060.100 INLET 2x2.5-FT SPECIAL EACH
9TH STREET 1517-75-76																								
100	16NS+29	6.7' LT	--	753.72	--	1	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
107	16NS+56	28.5' RT	760.49	756.30	2.94	--	--	--	--	1	--	--	--	--	--	--	--	--	1	--	--	--	--	--
108	16NS+21	28.5' RT	760.35	755.75	3.35	--	--	--	1	--	--	--	--	--	--	--	--	--	1	--	--	--	--	--
109	16NS+21	6.7' LT	760.24	753.70	5.29	--	--	1	--	--	--	--	--	--	--	--	1	--	--	--	--	--	--	--
110	16NS+55	24.5' LT	760.08	755.80	3.03	--	--	--	1	--	--	--	--	--	--	--	--	--	1	--	--	--	--	--
111	16NS+35	24.5' LT	760.04	755.11	3.68	--	--	--	1	--	--	--	--	--	--	--	--	--	1	--	--	--	--	--
112	15NS+44	7.2' LT	760.32	752.71	6.36	--	--	1	--	--	--	--	--	--	1	--	--	--	--	--	--	--	--	--
115	13NS+85	24.5' RT	758.54	754.15	3.14	--	--	--	--	1	--	--	--	--	--	--	--	--	1	--	--	--	--	--
116	13NS+84	8.1' LT	758.83	751.64	5.94	--	--	1	--	--	--	--	--	--	1	--	--	--	--	--	--	--	--	--
117	13NS+84	16.5' LT	758.69	754.14	3.30	--	--	--	--	1	--	--	--	--	--	--	--	--	1	--	--	--	--	--
118	13NS+42	8.2' LT	--	751.48		1	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
9TH STREET 1517-75-76 SUBTOTALS						2	--	3	3	3	--	--	--	--	2	--	1	--	--	6	--	--	--	--
RACINE ROAD/CONNECTOR/ROUNDABOUT/12TH STREET 1517-75-76																								
200	18RNB+47	29.5' RT	758.79	754.34	3.20	--	--	--	--	1	--	--	--	--	--	--	--	--	--	1	--	--	--	--
201	19RNB+42	29.5' RT	758.07	753.37	3.45	--	--	--	--	1	--	--	--	--	--	--	--	--	--	1	--	--	--	--
202	19RSB+40	18.0' LT	758.21	752.87	4.09	--	--	1	--	--	--	--	--	1	--	--	--	--	--	--	--	--	--	--
203	19RSB+40	38.9' LT	757.84	753.21	3.38	--	--	--	--	1	--	--	--	--	--	--	--	--	--	1	--	--	--	--
204	21RSB+13	29.5' RT	755.88	751.39	3.24	--	--	--	--	1	--	--	--	--	--	--	--	--	--	1	--	--	--	--
205	21RNB+10	29.5' RT	756.19	751.73	3.21	--	--	--	--	1	--	--	--	--	--	--	--	--	--	1	--	--	--	--
206	21RSB+12	18.0' LT	756.08	751.11	3.72	--	--	1	--	--	--	--	--	1	--	--	--	--	--	--	--	--	--	--
207	27RSWC+52	19.3' RT	754.72	750.64	2.83	--	--	--	--	1	--	--	--	--	--	--	--	--	--	1	--	--	--	--
208	27RSCW+52	7.8' RT	754.92	749.98	3.69	--	--	1	--	--	--	--	--	1	--	--	--	--	--	--	--	--	--	--
209	22RNB+27	29.5' RT	754.89	750.97	2.67	--	--	--	--	1	--	--	--	--	--	--	--	--	--	1	--	--	--	--
210	22RNB+80	26.7' RT	754.76	750.12	3.39	--	--	--	1	--	--	--	--	--	--	--	--	--	1	--	--	--	--	--
211	22RNB+70	1.5' LT	755.25	749.99	4.01	--	--	--	--	1	--	--	--	--	--	--	--	--	1	--	--	--	--	--
212	23RSB+14	1.5' RT	754.97	749.77	3.95	--	--	--	--	1	--	--	--	--	--	--	--	--	1	--	--	--	--	--
213	23RSB+16	17.6' LT	754.65	749.68	3.72	--	--	--	--	1	--	--	--	--	--	--	--	--	1	--	--	--	--	--
214	25RNB+12	187.7' RT	759.06	754.13	3.68	--	--	1	--	--	--	--	--	1	--	--	--	--	--	--	--	--	--	--
215	24RNB+56	31.4' RT	756.55	752.22	3.08	--	--	--	--	1	--	--	--	--	--	--	--	--	1	--	--	--	--	--
216	24RNB+09	1.5' LT	756.09	751.45	3.39	--	--	--	--	--	--	--	--	1	--	--	--	--	--	--	--	--	--	1
217	23RNB+22	30.2' RT	754.92	750.54	3.13	--	--	--	--	1	--	--	--	--	--	--	--	--	1	--	--	--	--	--
219	23RSB+93	11.2' RT	755.61	750.45	3.91	--	--	--	--	1	--	--	--	--	--	--	--	--	1	--	--	--	--	--
220	25RWB+11	193.6' RT	--	756.05	--	1	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
225	26RSWC+27	9.3' RT	754.00	749.11	3.64	--	--	1	--	--	--	--	--	--	--	1	--	--	--	--	--	--	--	--
226	25RSWC+89	25.4' RT	753.60	749.02	3.33	--	--	--	--	1	--	--	--	--	--	1	--	--	--	--	--	--	--	--
227	25RSWC+75	1.5' LT	754.10	749.87	2.98	--	--	--	--	1	--	--	--	--	--	--	--	--	--	1	--	--	--	--
228	25RSWC+71	26.8' RT	753.60	748.99	3.36	--	--	--	--	1	--	--	--	--	--	1	--	--	--	--	--	--	--	--
229	25RSWC+13	24.8' RT	753.77	748.89	3.63	--	--	--	--	1	--	--	--	--	--	1	--	--	--	--	--	--	--	--
230	13RRT+61	1.5' LT	755.27	750.49	3.53	--	--	--	--	--	--	--	1	--	--	--	--	--	--	--	--	--	--	1
231	13RRT+36	1.5' LT	755.34	750.22	3.87	--	--	--	--	--	--	--	1	--	--	--	--	--	--	--	--	--	--	1
232	13RRT+22	21.5' RT	755.63	750.10	4.28	--	--	--	--	1	--	--	--	--	--	--	--	--	1	--	--	--	--	--
233	26RSWC+73	8.8' RT	754.23	749.17	3.81	--	--	1	--	--	--	--	--	--	--	1	--	--	--	--	--	--	--	--
235	238CNB+20	1.5' LT	755.21	750.44	3.52	--	--	--	--	1	--	--	--	--	--	--	--	--	1	--	--	--	--	--
236	237CSB+61	1.5' RT	755.11	750.10	3.76	--	--	--	--	1	--	--	--	--	--	--	--	--	1	--	--	--	--	--
237	237CSB+49	29.1' LT	754.57	749.42	3.90	--	--	--	--	1	--	--	--	--	--	--	--	--	1	--	--	--	--	--
238	24RSWC+89	13.2' RT	754.09	748.83	4.01	--	--	1	--	--	--	--	--	--	--	--	--	1	--	--	--	--	--	--
239	11TWS+26	17.5' LT	756.74	751.96	3.53	--	--	--	--	1	--	--	--	--	--	--	--	--	--	1	--	--	--	--
240	11TWS+30	17.5' RT	756.81	751.71	3.85	--	--	--	--	1	--	--	--	--	--	--	--	--	1	--	--	--	--	--

STORM SEWER STRUCTURES (CONT.)

STRUCTURE NUMBER	STATION	OFFSET	FLANGE OR RIM ELEV	LOWEST INVERT	DEPTH	520.8000 CONCRETE COLLARS FOR PIPE EACH	522.1018 APRON ENDWALLS FOR CULVERT PIPE REINFORCED CONCRETE 18-INCH EACH	611.0535 MANHOLE COVERS TYPE J-SPECIAL EACH	611.0639 INLET COVERS TYPE H-S EACH	611.0624 INLET COVERS TYPE H EACH	611.0642 INLET COVERS TYPE MS EACH	611.0651 INLET COVERS TYPE S EACH	611.0652 INLET COVERS TYPE T EACH	611.2004 MANHOLES 4-FT DIAMETER EACH	611.2005 MANHOLES 5-FT DIAMETER EACH	611.2006 MANHOLES 6-FT DIAMETER EACH	611.2007 MANHOLES 7-FT DIAMETER EACH	611.2008 MANHOLES 8-FT DIAMETER EACH	611.3004 INLETS 4-FT DIAMETER EACH	611.3230 INLETS 2x3-FT EACH	611.3901 INLETS MEDIAN 1 GRATE EACH	633.5200 MARKERS CULVERT END EACH	611.9800.S PIPE GRATES EACH	SPV.0060.100 INLET 2x2.5-FT SPECIAL EACH
241	10TWS+57	18.6' LT	756.12	751.44	3.43	--	--	--	--	1	--	--	--	--	--	--	--	--	1	--	--	--	--	--
242	10TWS+75	19.6' RT	756.18	751.24	3.69	--	--	--	--	1	--	--	--	--	--	--	--	--	1	--	--	--	--	--
243	28RNB+46	19.1' RT	757.05	750.91	4.89	--	--	--	--	1	--	--	--	--	--	--	--	--	1	--	--	--	--	--
244	28RNB+65	2.5' LT	757.13	750.78	5.10	--	--	--	--	1	--	--	--	--	--	--	--	--	1	--	--	--	--	--
245	28RSB+59	5.2' RT	756.90	750.50	5.15	--	--	--	--	1	--	--	--	--	--	--	--	--	1	--	--	--	--	--
246	14RSEC+82	7.6' LT	756.58	749.86	5.47	--	--	1	--	--	--	--	--	1	--	--	--	--	--	--	--	--	--	--
247	26RNB+29	18.5' RT	756.42	751.82	3.35	--	--	--	--	1	--	--	--	--	--	--	--	--	--	1	--	--	--	--
248	26RNB+60	18.5' RT	756.35	751.34	3.76	--	--	--	--	1	--	--	--	--	--	--	--	--	--	1	--	--	--	--
250	26RNB+60	1.5' LT	756.69	751.09	4.35	--	--	--	--	1	--	--	--	--	--	--	--	--	1	--	--	--	--	--
251	26RSB+60	1.5' RT	756.17	750.83	4.09	--	--	--	--	1	--	--	--	--	--	--	--	--	--	1	--	--	--	--
252	26RSB+61	18.5' LT	755.83	750.57	4.01	--	--	--	--	1	--	--	--	--	--	--	--	--	1	--	--	--	--	--
253	12RRT+46	1.5' LT	756.18	751.23	3.70	--	--	--	--	--	--	--	1	--	--	--	--	--	--	--	--	--	--	1
254	12RRT+08	31.5' RT	756.57	750.72	4.60	--	--	--	--	1	--	--	--	--	--	--	--	--	--	1	--	--	--	--
255	26RSB+16	18.5' LT	756.02	750.58	4.19	--	--	--	--	1	--	--	--	--	--	--	--	--	1	--	--	--	--	--
256	13RSEC+25	1.5' RT	755.72	749.92	4.55	--	--	--	--	1	--	--	--	--	1	--	--	--	--	--	--	--	--	--
257	13RSEC+24	17.5' LT	755.40	750.26	3.89	--	--	--	--	1	--	--	--	--	--	--	--	--	--	1	--	--	--	--
258	13RSEC+24	8.2' LT	755.55	749.49	4.81	--	--	1	--	--	--	--	--	--	1	--	--	--	--	--	--	--	--	--
259	12RSEC+68	11.1' LT	755.18	749.38	4.55	--	--	1	--	--	--	--	--	1	--	--	--	--	--	--	--	--	--	--
260	12RSEC+12	16.9' LT	754.77	750.04	3.48	--	--	--	--	1	--	--	--	--	--	--	--	--	--	1	--	--	--	--
261	11RSEC+63	1.5' RT	754.80	749.93	3.62	--	--	--	--	1	--	--	--	--	--	--	--	--	--	1	--	--	--	--
262	11RSEC+63	8.7' RT	755.01	750.38	3.38	--	--	--	--	1	--	--	--	--	--	--	--	--	--	1	--	--	--	--
263	11RSEC+64	8.4' LT	754.64	749.15	4.24	--	--	1	--	--	--	--	--	--	1	--	--	--	--	--	--	--	--	--
264	12RSEC+12	7.6' LT	754.92	749.26	4.41	--	--	1	--	--	--	--	--	1	--	--	--	--	--	--	--	--	--	--
265	11RSEC+15	112.6' LT	--	751.97	--	--	1	--	--	--	--	--	--	--	--	--	--	--	--	--	--	1	1	--
267	11RSEC+09	16.5' LT	754.28	749.63	3.40	--	--	--	--	1	--	--	--	--	--	--	--	--	--	1	--	--	--	--
268	11RSEC+08	7.3' LT	754.43	749.02	4.16	--	--	1	--	--	--	--	--	1	--	--	--	--	--	--	--	--	--	--
269	10RSEC+08	16.5' LT	755.41	749.65	4.51	--	--	--	--	1	--	--	--	--	--	--	--	--	--	1	--	--	--	--
270	10RSEC+08	8.1' LT	755.54	748.78	5.51	--	--	1	--	--	--	--	--	--	1	--	--	--	--	--	--	--	--	--
271	239CNB+17	1.5' LT	756.13	748.70	6.18	--	--	--	--	1	--	--	--	--	--	--	--	--	1	--	--	--	--	--
272	239CSB+00	1.5' RT	755.97	748.68	6.04	--	--	--	--	1	--	--	--	--	--	--	--	--	1	--	--	--	--	--
273	239CSB+03	25.5' LT	755.52	748.62	5.65	--	--	--	--	1	--	--	--	--	--	--	--	--	1	--	--	--	--	--
274	23RSWC+51	1.5' LT	755.79	748.60	5.94	--	--	--	--	1	--	--	--	--	--	--	--	--	1	--	--	--	--	--
275	23RSWC+53	18.5' RT	755.43	749.90	4.28	--	--	--	--	1	--	--	--	--	--	--	--	--	--	1	--	--	--	--
276	23RSWC+53	9.0' RT	755.58	748.58	5.75	--	--	1	--	--	--	--	--	--	--	--	--	1	--	--	--	--	--	--
277	21RSWC+47	9.0' RT	758.52	748.34	8.93	--	--	1	--	--	--	--	--	--	--	1	--	--	--	--	--	--	--	--
278	242CNB+85	37.5' RT	757.94	753.21	3.48	--	--	--	--	1	--	--	--	--	--	--	--	--	--	1	--	--	--	--
280	243CNB+45	37.5' RT	758.08	752.76	4.07	--	--	--	--	1	--	--	--	--	--	--	--	--	--	1	--	--	--	--
282	243CNB+45	1.5' LT	758.42	752.48	4.69	--	--	--	--	1	--	--	--	--	--	--	--	--	1	--	--	--	--	--
284	18RSWC+74	18.5' RT	758.64	753.99	3.40	--	--	--	--	1	--	--	--	--	--	--	--	--	--	1	--	--	--	--
285	18RSWC+63	1.6' LT	--	754.21	--	1	--	--	--	--	--	--	--	--	--	--	--	--	1	--	--	--	--	
286	18RSWC+74	1.5' LT	758.51	753.90	3.36	--	--	--	--	1	--	--	--	--	--	--	--	--	1	--	--	--	--	--
287	243CSB+35	25.5' LT	758.39	752.01	5.13	--	--	--	--	1	--	--	--	--	--	--	--	--	1	--	--	--	--	--
288	243CSB+50	1.5' RT	758.39	752.37	4.77	--	--	--	--	1	--	--	--	1	--	--	--	--	--	--	--	--	--	--
290	19RSWC+41	9.0' RT	758.73	748.10	9.38	--	--	1	--	--	--	--	--	--	--	--	--	1	--	--	--	--	--	--
291	19RSWC+31	30.2' RT	--	748.08	--	1	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
292	19RNB+96	63.5' RT	756.84	753.89	1.70	--	--	--	--	--	1	--	--	--	--	--	--	--	--	--	1	--	--	--
295	20RNB+86	62.0' RT	756.19	751.92	3.02	--	--	--	--	--	1	--	--	--	--	--	--	--	--	--	1	--	--	--
309	13RNB+23	22.5' RT	760.43	757.10	2.08	--	--	--	1	--	--	--	--	--	--	--	--	--	--	1	--	--	--	--
310	13RNB+23	21.1' LT	760.46	757.05	2.16	--	--	--	--	--	--	1	--	--	--	--	--	--	--	1	--	--	--	--
311	13RNB+23	14.5' LT	760.56	753.36	5.95	--	--	1	--	--	--	--	--	1	--	--	--	--	--	--	--	--	--	--

STORM SEWER STRUCTURES (CONT.)

STRUCTURE NUMBER	STATION	OFFSET	FLANGE OR RIM ELEV	LOWEST INVERT	DEPTH	520.8000 CONCRETE COLLARS FOR PIPE EACH	522.1018 APRON ENDWALLS FOR CULVERT PIPE REINFORCED CONCRETE 18-INCH EACH	611.0535 MANHOLE COVERS TYPE J-SPECIAL EACH	611.0639 INLET COVERS TYPE H-S EACH	611.0624 INLET COVERS TYPE H EACH	611.0642 INLET COVERS TYPE MS EACH	611.0651 INLET COVERS TYPE S EACH	611.0652 INLET COVERS TYPE T EACH	611.2004 MANHOLES 4-FT DIAMETER EACH	611.2005 MANHOLES 5-FT DIAMETER EACH	611.2006 MANHOLES 6-FT DIAMETER EACH	611.2007 MANHOLES 7-FT DIAMETER EACH	611.2008 MANHOLES 8-FT DIAMETER EACH	611.3004 INLETS 4-FT DIAMETER EACH	611.3230 INLETS 2x3-FT EACH	611.3901 INLETS MEDIAN 1 GRATE EACH	633.5200 MARKERS CULVERT END EACH	611.9800.S PIPE GRATES EACH	SPV.0060.100 INLET 2x2.5-FT SPECIAL EACH
313	15RNB+08	22.5' LT	760.27	756.95	2.07	--	--	--	--	1	--	--	--	--	--	--	--	--	--	1	--	--	--	--
314	15RNB+08	16.9' LT	760.35	752.86	6.24	--	--	1	--	--	--	--	--	1	--	--	--	--	--	--	--	--	--	--
316	15RNB+08	22.5' RT	760.27	757.00	2.02	--	--	--	--	1	--	--	--	--	--	--	--	--	--	1	--	--	--	--
318	19RNB+67	42.5' LT	759.66	754.78	3.63	--	--	--	1	--	--	--	--	--	--	--	--	--	--	1	--	--	--	--
319	16RNB+67	10.0' LT	759.97	754.40	4.32	--	--	1	--	--	--	--	--	1	--	--	--	--	--	--	--	--	--	--
321	16RNB+67	29.5' RT	759.51	754.90	3.36	--	--	--	1	--	--	--	--	--	--	--	--	--	--	1	--	--	--	--
401	31RNB+13	17.5' RT	754.06	750.16	2.65	--	--	--	--	1	--	--	--	--	--	--	--	--	1	--	--	--	--	--
402	31RNB+50	17.5' RT	753.98	750.00	2.73	--	--	--	--	--	--	1	--	--	--	--	--	--	1	--	--	--	--	--
403	31RNB+69	17.5' RT	754.01	749.91	2.85	--	--	--	--	1	--	--	--	--	--	--	--	--	1	--	--	--	--	--
405	31RNB+50	17.5' LT	753.98	750.12	2.61	--	--	--	--	1	--	--	--	--	--	--	--	--	--	1	--	--	--	--
406	31RNB+99	17.5' LT	754.16	749.79	3.12	--	--	--	--	1	--	--	--	--	--	--	--	--	1	--	--	--	--	--
407	31RNB+99	5.7' LT	754.37	748.99	4.13	--	--	1	--	--	--	--	--	--	1	--	--	--	--	--	--	--	--	--
408	34RNB+06	35.4' RT	756.49	753.79	1.45	--	--	--	--	--	1	--	--	--	--	--	--	--	--	--	1	--	--	--
410	33RNB+85	17.5' LT	756.51	748.35	6.91	--	--	--	--	1	--	--	--	--	1	--	--	--	--	--	--	--	--	--
411	31RNB+69	38.3' RT	754.43	750.00	3.18	--	--	--	--	--	1	--	--	--	--	--	--	--	--	--	1	--	--	--
412	33RNB+93	18.5' LT	--	748.32	--	1	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
RACINE ROAD/CONNECTOR/RBT/12TH STREET 1517-75-76 SUBTOTAL						4	1	21	4	61	4	2	4	12	6	6	--	3	31	31	4	1	1	4
PROJECT 1517-75-76 TOTALS						6	1	24	7	64	4	2	4	12	8	6	1	3	31	37	4	1	1	4

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ERECTION OF TYPE II SIGNS AND SUPPORTS

SIGN NO.	LOCATION	SIGN CODE	W X H	637.2210 SIGNS TYPE II REFLECTIVE H S.F.	637.2215 SIGNS TYPE II FOLDING REFLECTIVE H S.F.	637.2230 SIGNS TYPE II REFLECTIVE F S.F.	SPV.0165.001 PERMANENT COVERING TYPE II SIGN S.F.	634.0612 POSTS WOOD 4x6x12 EACH	634.0614 POSTS WOOD 4x6x14 EACH	634.0616 POSTS WOOD 4x6x16 EACH	634.0618 POSTS WOOD 4x6x18 EACH	REMARKS
1A	RACINE ST, WEST OF EAST RAB	R3-8X	54" X 30"	11.25	---	---	7.50	---	---	---	---	MOUNT TO RIGHT VERTICAL COLUMN OF S-70-213
1B	"	R3-8X	54" X 30"	11.25	---	---	7.50	---	---	---	---	MOUNT TO LEFT VERTICAL COLUMN OF S-70-213
1C	"	J1-2	48" X 39"	13.00	---	---	---	---	---	1	---	JCT USH 10, JCT STH 441
1D	"	J1-2	48" X 39"	13.00	---	---	---	---	---	1	---	JCT USH 10, JCT STH 441
1E	"	D1-2	90" X 36"	22.50	---	---	---	---	---	2	---	SEE SIGN DETAIL SHEET
1F	"	W10-1	36" X 36"	---	---	7.07	---	---	---	1	---	
1G	"	W10-1A	24" X 12"	---	---	2.00	---	---	---	---	---	MOUNT BELOW SIGN #1F
1H	"	W10-1	36" X 36"	---	---	7.07	---	---	---	1	---	
1I	"	W10-1A	24" X 12"	---	---	2.00	---	---	---	---	---	MOUNT BELOW SIGN #1H
1J	"	W3-2	36" X 36"	---	---	9.00	---	---	---	1	---	
1K	"	W2-6	36" X 36"	---	---	9.00	---	---	---	---	1	
1L	"	W13-1	24" X 24"	---	---	4.00	---	---	---	---	---	MOUNT BELOW SIGN #1K, 15 MPH
1	RACINE ST, EAST RAB	D1-2	60" X 30"	12.50	---	---	---	---	---	---	2	SEE SIGN DETAIL SHEET
2	"	R11-54F	48" X 30"	---	10.00	---	---	---	---	---	---	MOUNT BELOW SIGN #25
3	"	R6-1R	54" X 18"	6.75	---	---	---	2	---	---	---	
4	"	R6-4B	60" X 24"	10.00	---	---	---	---	---	---	---	MOUNT BELOW SIGN #27
5	"	R1-2	36" X 31"	3.88	---	---	---	---	---	1	---	
6	"	R1-54	24" X 15"	2.50	---	---	---	---	---	---	---	MOUNT BELOW SIGN #29
7	"	R1-2	36" X 31"	3.88	---	---	---	---	---	1	---	
8	"	R6-2R	24" X 30"	5.00	---	---	---	---	---	---	---	MOUNT BELOW SIGN #31
9	RACINE ST, N. OF EAST RAB	W12-1D	24" X 24"	---	---	4.00	---	1	---	---	---	
10	RACINE ST, EAST RAB	D1-1	72" X 15"	7.50	---	---	---	2	---	---	---	RACINE RD, SEE SIGN DETAIL SHEET
11	RACINE ST, N. OF EAST RAB	W3-2	36" X 36"	---	---	9.00	---	---	---	1	---	
12	VACANT	---	---	---	---	---	---	---	---	---	---	
13	VACANT	---	---	---	---	---	---	---	---	---	---	
14	12TH STREET	R1-1	30" X 30"	5.18	---	---	---	---	1	---	---	
15	RACINE ST, N. OF EAST RAB	R6-2R	24" X 30"	5.00	---	---	---	---	1	---	---	
16	"	J3-3	72" X 57"	28.50	---	---	9.50	---	---	---	2	TO I-41, TO US 10, TO STH 441, SEE PLAN SHEET
16A	"	---	---	---	---	---	4.00	---	---	---	---	SEE PLAN SHEET FOR SPECIFIC COVERING DETAILS
17	"	R11-54F	48" X 30"	---	10.00	---	---	---	---	---	---	MOUNT BELOW SIGN #39
18	"	R3-5A	42" X 48"	14.00	---	---	---	---	---	---	---	MOUNT ON S-70-215 OVER LEFT LANE
19	"	R3-5R	42" X 48"	14.00	---	---	---	---	---	---	---	MOUNT ON S-70-215 OVER RIGHT LANE
20	"	M1-5A	24" X 24"	4.00	---	---	---	1	---	---	---	
21	"	R4-7	24" X 30"	5.00	---	---	---	---	1	---	---	
22	"	R2-1	24" X 30"	5.00	---	---	---	---	1	---	---	
23	"	J2-2	48" X 57"	19.00	---	---	---	---	---	1	---	TO US 10, TO STH 441, SEE PLAN SHEET
23A	"	---	---	---	---	---	4.00	---	---	---	---	SEE PLAN SHEET FOR SPECIFIC COVERING DETAILS
24	"	W2-6	30" X 30"	---	---	6.25	---	---	1	---	---	
25	"	W13-1	18" X 18"	---	---	2.25	---	---	---	---	---	15 MPH, MOUNT BELOW SIGN #47
	PAGE SUBTOTAL			222.69	20.00	61.64	32.50	6	5	11	5	

PLAN SHEET PRODUCED
BY WisDOT - NE REGION

ERECTION OF TYPE II SIGNS AND SUPPORTS

SIGN NO.	LOCATION	SIGN CODE	W X H	637.2210 SIGNS TYPE II REFLECTIVE H S.F.	637.2215 SIGNS TYPE II FOLDING REFLECTIVE H S.F.	637.2230 SIGNS TYPE II REFLECTIVE F S.F.	SPV.0165.001 PERMANENT COVERING TYPE II SIGN S.F.	634.0612 POSTS WOOD 4x6x12 EACH	634.0614 POSTS WOOD 4x6x14 EACH	634.0616 POSTS WOOD 4x6x16 EACH	634.0618 POSTS WOOD 4x6x18 EACH	REMARKS
26	RACINE ST, WEST OF EAST RAB	R3-5X	42" X 48"	14.00	---	---	---	---	---	---	---	MOUNT ON S-70-214 OVER LEFT LANE
27	"	R3-5R	42" X 48"	14.00	---	---	---	---	---	---	---	MOUNT ON S-70-214 OVER RIGHT LANE
28	"	R1-2	36" X 31"	3.88	---	---	---	---	---	1	---	
29	"	R6-2R	24" X 30"	5.00	---	---	---	---	---	---	---	MOUNT BELOW SIGN #51
30	"	R1-2	36" X 31"	3.88	---	---	---	---	---	1	---	
31	"	R1-54	24" X 15"	2.50	---	---	---	---	---	---	---	MOUNT BELOW SIGN #53
32	CENTRAL ISLAND OF EAST RAB	R6-1R	54" X 18"	6.75	---	---	---	2	---	---	---	
33	"	R6-4B	60" X 24"	10.00	---	---	---	---	---	---	---	MOUNT BELOW SIGN #55
34	"	R6-1R	54" X 18"	6.75	---	---	---	2	---	---	---	
35	"	R6-4B	60" X 24"	10.00	---	---	---	---	---	---	---	MOUNT BELOW SIGN #57
36	RACINE ST, S. OF EAST RAB	R1-2	36" X 31"	3.88	---	---	---	---	---	1	---	
37	"	R1-54	24" X 15"	2.50	---	---	---	---	---	---	---	MOUNT BELOW SIGN #59
38	"	R1-2	36" X 31"	3.88	---	---	---	---	---	1	---	
39	"	R6-2R	24" X 30"	5.00	---	---	---	---	---	---	---	MOUNT BELOW SIGN #61
40	"	D1-1	72" X 15"	7.50	---	---	---	2	---	---	---	RACINE RD, SEE SIGN DETAIL SHEET
41	"	M1-5A	24" X 24"	4.00	---	---	---	1	---	---	---	COUNTY P
42	"	W3-2	36" X 36"	---	---	9.00	---	---	1	---	---	
43	"	J3-3	72" X 57"	28.50	---	---	9.50	---	---	---	2	TO I-41, TO US 10, TO STH 441, SEE PLAN SHEET
43A	"	---	---	---	---	---	13.06	---	---	---	---	SEE PLAN SHEET FOR SPECIFIC COVERING DETAILS
44	"	R2-1	24" X 30"	5.00	---	---	---	---	1	---	---	25 MPH
45	"	J2-3	72" X 57"	28.50	---	---	---	---	---	---	2	TO US 10, TO STH 441, CTH P, SEE PLAN SHEET
45A	"	---	---	---	---	---	4.00	---	---	---	---	SEE PLAN SHEET FOR SPECIFIC COVERING DETAILS
46	VACANT	---	---	---	---	---	---	---	---	---	---	
47	RACINE ST, S. OF EAST RAB	R3-5X	42" X 48"	14.00	---	---	---	---	---	---	---	MOUNT ON S-70-216 OVER LEFT LANE
48	"	R3-6L	42" X 48"	14.00	---	---	---	---	---	---	---	MOUNT ON S-70-216 OVER RIGHT LANE
49	"	W2-6	30" X 30"	---	---	6.25	---	---	---	1	---	
50	"	W13-1	18" X 18"	---	---	2.25	---	---	---	---	---	15 MPH, MOUNT BELOW SIGN #71
51	"	R4-7	24" X 30"	5.00	---	---	---	1	---	---	---	
52	"	R3-8L	54" X 30"	11.25	---	---	---	2	---	---	---	
53	"	W3-3	36" X 36"	---	---	9.00	---	---	1	---	---	
54	RACINE ST, N. OF 9TH ST	R2-1	24" X 30"	5.00	---	---	---	---	1	---	---	25 MPH
55	"	M1-5A	24" X 24"	4.00	---	---	---	1	---	---	---	COUNTY P
56	"	R1-1F	36" X 36"	---	7.46	---	---	---	---	---	---	MOUNT TO NEAR RIGHT SIGNAL
57	9TH ST, AT RACINE ST INTERSECTION	R1-1F	30" X 30"	---	5.18	---	---	---	---	---	---	MOUNT TO NEAR RIGHT SIGNAL
58	9TH ST	R3-7R	30" X 30"	6.25	---	---	---	---	1	---	---	
59	"	R3-8W	54" X 30"	11.25	---	---	---	---	---	2	---	
59A	"	R7-51L	18" X 24"	3.00	---	---	---	---	---	---	---	MOUNT BELOW SIGN #59
60	"	R3-7L	30" X 30"	6.25	---	---	---	---	1	---	---	
61	9TH ST, AT RACINE ST INTERSECTION	R1-1F	30" X 30"	---	5.18	---	---	---	---	---	---	MOUNT TO NEAR RIGHT SIGNAL
62	RACINE ST, S. OF 9TH ST	R1-1F	36" X 36"	---	7.46	---	---	---	---	---	---	MOUNT TO NEAR RIGHT SIGNAL
62A	"	R7-51L	18" X 24"	3.00	---	---	---	1	---	---	---	
63	"	R2-1	24" X 30"	5.00	---	---	---	---	---	---	1	25 MPH
64	"	R7-51R	18" X 24"	3.00	---	---	---	---	---	---	---	MOUNT BELOW SIGN #63
65	"	R3-8M	54" X 30"	11.25	---	---	---	---	2	---	---	
	PAGE SUBTOTAL			267.77	25.28	26.50	26.56	12	8	7	5	
	PROJECT TOTALS			**490.46**	**45.28**	**88.14**	**59.06**	**18**	**13**	**18**	**10**	

PLAN SHEET PRODUCED

BY WisDOT - NE REGION

REMOVING TYPE I AND II SIGNS AND SIGN SUPPORTS

SIGN	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	SPV.0105.01 REMOVING SIGN STRUCTURE (STRUCT #) LS	REMARKS
100	RAMP CONNECTION TO RACINE ST	W12-1D	---	---	1	1	---	
101	RAMP CONNECTION TO USH 10/STH 441	R5-57	---	---	1	1	---	
102	RACINE RD	R1-2	---	---	1	1	---	
103	"	R5-1	---	---	1	---	---	ALSO REMOVE R1-1F, MOUNTED TO TRAFFIC SIGNAL
104	"	R4-7	---	---	1	---	---	MOUNTED TO TRAFFIC SIGNAL
105	"	R11-54F	---	---	---	---	---	MOUNTED TO TRAFFIC SIGNAL, PART OF REMOVAL FOR SIGN #343
106	"	R1-1F	---	---	1	---	---	MOUNTED TO TRAFFIC SIGNAL
107	"	R5-1	---	---	1	---	---	MOUNTED TO TRAFFIC SIGNAL
108	"	R4-7	---	---	1	---	---	MOUNTED TO TRAFFIC SIGNAL
109	12TH STREET	R1-1	---	---	1	1	---	
110	RACINE RD, N. OF 12TH ST	J3-2	---	---	1	1	---	
111	"	R11-54F	---	---	---	---	---	PART OF REMOVAL FOR SIGN #348
112	"	R2-1	---	---	1	1	---	ALSO REMOVE M1-5A
113	"	W4-2R	---	---	1	1	---	
114	RACINE RD	R4-7	---	---	1	---	---	
115	RACINE RD, N. OF 12TH ST	J2-2	---	---	1	1	---	
115A	"	FMS	1	---	---	---	---	
116	"	W3-3	---	---	1	1	---	
117	RAMP CONNECTION TO RACINE ST	W3-3	---	---	1	1	---	
118	"	D1-2	---	---	1	2	---	
119	"	J3-2	---	---	1	1	---	
120	"	J13-1	---	---	1	1	---	
121	"	R1-1F	---	---	1	---	---	MOUNTED TO TRAFFIC SIGNAL
122	"	R1-1F	---	---	1	---	---	MOUNTED TO TRAFFIC SIGNAL
123	RACINE ST	J3-1	---	---	1	---	---	
123A	"	J3-1	---	---	1	1	---	
124	"	R10-5	---	---	1	---	---	ALSO REMOVE R1-1F, MOUNTED TO TRAFFIC SIGNAL
125	"	R1-1F	---	---	---	---	---	MOUNTED TO TRAFFIC SIGNAL, PART OF REMOVAL FOR SIGN #345
126	RACINE ST, S. OF RAMP CONNECTION ROADWAYS	W12-1D	---	---	1	1	---	
127	"	R2-1	---	---	1	1	---	
128	"	J3-3	---	---	1	2	---	
129	"	R4-7	---	---	1	1	---	
130	"	R5-1	---	---	1	1	---	
131	"	R3-8A	---	---	1	1	---	
131A	"	FMS	1	---	---	---	---	
132	"	R3-8A	---	---	1	1	---	
133	"	J3-4	---	---	1	2	---	
133A	"	R7-2D	---	---	1	---	---	MOUNTED TO CITY WAYFINDER SIGN SUPPORT
134	"	W3-3	---	---	1	1	---	
135	"	J13-1	---	---	1	1	---	
136	"	R1-1F	---	---	1	---	---	MOUNTED ON TRAFFIC SIGNAL
	PAGE SUBTOTALS		2	0	36	27	0	

PLAN SHEET PRODUCED
BY WisDOT - NE REGION

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REMOVING TYPE I AND II SIGNS AND SIGN SUPPORTS

SIGN	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	SPV.0105.01 REMOVING SIGN STRUCTURE (STRUCT #) LS	REMARKS
137	9TH ST, AT RACINE ST	R5-2	---	---	1	---	---	MOUNTED TO SIGNAL
138	"	R3-8A	---	---	1	---	---	MOUNTED TO POWER POLE
139	"	R8-3	---	---	---	---	---	PART OF REMOVAL FOR SIGN #138
140	"	R3-7L	---	---	1	---	---	MOUNTED TO SIGNAL
141	"	R1-1F	---	---	---	---	---	PART OF REMOVAL FOR SIGN #140
142	"	R10-6	---	---	1	---	---	MOUNTED TO POWER POLE
143	"	R3-7L	---	---	1	---	---	MOUNTED TO SIGNAL
144	"	R1-1F	---	---	---	---	---	PART OF REMOVAL FOR SIGN #143
145	"	R3-8A	---	---	1	1	---	
146	"	R8-3	---	---	---	---	---	PART OF REMOVAL FOR SIGN #145
147	RACINE ST, AT 9TH ST INTERSECTION	R3-7L	---	---	1	---	---	MOUNT TO SIGNAL
148	"	R1-1F	---	---	---	---	---	PART OF REMOVAL FOR SIGN #147
149	RACINE ST, S. OF 9TH ST	R8-3	---	---	1	---	---	MOUNTED TO POWER POLE
150	"	R3-8M	---	---	1	1	---	
151	"	R2-1	---	---	1	1	---	
152	"	R7-51R	---	---	---	---	---	PART OF REMOVAL FOR SIGN #151
153	RAMP CONNECTION TO RACINE ST	W1-1R	---	---	1	1	---	
154	"	W13-1	---	---	---	---	---	PART OF REMOVAL FOR SIGN #153
155	"	W1-1R	---	---	1	1	---	
156	"	W13-1	---	---	---	---	---	PART OF REMOVAL FOR SIGN #155
157	"	W10-1	---	---	1	1	---	
158	"	W10-1A	---	---	---	---	---	PART OF REMOVAL FOR SIGN #157
159	"	W10-1	---	---	1	1	---	
160	"	W10-1A	---	---	---	---	---	PART OF REMOVAL FOR SIGN #159
161	"	J3-2	---	---	1	1	---	
162	VACANT	---	---	---	---	---	---	
163	RAMP CONNECTION TO RACINE ST	E6-1	---	1	---	---	1 (S-70-13)	
	PAGE SUBTOTALS		0	1	15	8	1	
	PROJECT TOTALS		**2**	**1**	**51**	**35**	**1**	

ERECTION OF PERMANENT SIGNING, TYPE I

SIGN NO.	LOCATION	SIGN CODE	637.1220 SIGNS TYPE I REFLECTIVE SH W	X	H	S.F.	SPV.0165.002 PERMANENT COVERING TYPE I SIGN S.F.	REMARKS
200	CTH P, ON-RAMP CONNECTOR TO USH 10/STH 441	E7-2	180"	X	102"	127.50	60	MOUNT CENTERED OVER 2 LEFT LANE ON S-70-213, SEE SIGN DETAIL SHEET
201	"	E6-54R	108"	X	102"	76.50	---	MOUNT CENTERED OVER RIGHT LANE ON S-70-213, SEE SIGN DETAIL SHEET
	PROJECT TOTALS					**204.00**	**60**	

PLAN SHEET PRODUCED
BY WisDOT - NE REGION

POLES, ARMS, & LUMINAIRES

WIS 441 Lighting - Contract 1517-75-76

CATEGORY	SYSTEM	LOCATION	STATION	654.0105 CONCRETE BASES TYPE 5	657.0255 TRANSFORMERS BASES BREAKAWAY 11 1/2-INCH BOLT CIRCLE	657.0322 POLES TYPE 5-ALUMINUM	657.0710 LUMINAIRE ARMS TRUSS TYPE 4 1/2-INCH CLAMP 12-FT	659.1120 LUMINAIRES UTILITY LED B	SPV.0060.353 LIGHT POLE SPECIAL
				EACH	EACH	EACH	EACH	EACH	EACH
1100	ROUNDABOUT & CONNECTOR RD	SL601	STA 23+46	1	1	1	1	1	-
		SL602	STA 21+69	1	1	1	1	1	-
		SL603	STA 19+69	1	1	1	1	1	-
		SL604	STA 237+27	1	1	1	1	1	-
		SL605	STA 237+30	1	1	1	1	1	-
		SL606	STA 238+00	1	1	1	1	1	-
		SL607	STA 240+08	1	1	1	1	1	-
		SL608	STA 242+00	1	1	1	1	1	-
		SL609	STA 243+80	1	1	1	1	1	-
		SL610	STA 25+00	1	1	1	1	1	-
		SL611	STA 26+15	1	1	1	2	2	-
		SL612	STA 23+09	1	1	1	1	1	-
		SL613	STA 24+45	1	1	1	1	1	-
		SL614	STA 25+40	1	1	1	1	1	-
		SL615	STA 26+47	1	1	1	1	1	-
		SL616	STA 13+40	1	1	1	1	1	-
ROUNDABOUT & CONNECTOR ROAD				16	16	16	17	17	0
1110	RACINE RD	SL701	STA 18+17	1	-	-	-	-	1
		SL702	STA 21+65	1	-	-	-	-	1
		SL703	STA 19+95	1	-	-	-	-	1
		SL704	STA 27+50	1	-	-	-	-	1
		SL705	STA 29+45	1	-	-	-	-	1
		SL706	STA 30+92	1	-	-	-	-	1
		SL707	STA 35+00	1	-	-	-	-	1
		SL708	STA 28+70	1	-	-	-	-	1
		SL709	STA 32+90	1	-	-	-	-	1
RACINE ROAD				9	0	0	0	0	9
PROJECT TOTAL				**25**	**16**	**16**	**17**	**17**	**9**

PULL BOXES

WIS 441 Lighting - Contract 1517-75-76

SYSTEM	CATEGORY	DESCRIPTION	STATION	OFFSET		SPV.0060.354 PULL BOX NON-CONDUCTIVE 24X42-INCH
						EACH
ROUNDABOUT & CONNECTOR RD	1100	LPB01	STA 24+70	30.00	RT	1
		LPB02	STA 24+85	8.00	LT	1
		LPB03	STA 237+38	18.00	LT	1
		LPB04	STA 237+38	30.00	RT	1
		LPB05	STA 11+87	59.00	RT	1
		LPB06	STA 26+28	25.00	RT	1
		LPB07	STA 26+25	9.00	LT	1
		LPB08	STA 23+50	25.00	LT	1
		LPB09	STA 23+60	39.00	RT	1
		LPB10	STA 26+72	25.00	RT	1
		LPB11	STA 26+77	18.00	LT	1
		LPB12	STA 13+50	10.00	RT	1
		LPB13	STA 13+50	23.00	LT	1
CATEGORY 1100 TOTAL						**13**
RACINE RD	1110	LPB101	STA 26+65	45.00	RT	1
		LPB102	STA 26+65	7.00	LT	1
		LPB103	STA 23+18	15.00	RT	1
		LPB104	STA 22+91	35.00	RT	1
		LPB105	STA 21+86	35.00	RT	1
		LPB106	STA 21+73	11.00	LT	1
		LPB107	STA 25+02	52.00	RT	1
		LPB108	STA 27+50	45.00	RT	1
		LPB109	STA 28+70	71.00	RT	1
		LPB110	STA 29+41	67.00	RT	1
		LPB111	STA 28+65	32.00	LT	1
		LPB112	STA 25+75	80.00	RT	1
CATEGORY 1110 TOTAL						**12**
PROJECT TOTAL						**25**

LIGHTING CABINETS & SERVICE PEDESTALS

WIS 441 Lighting - Contract 1517-75-76

SYSTEM	DESCRIPTION	CATEGORY	STATION	OFFSET		654.0230 CONCRETE CONTROL CABINET BASES TYPE L30	656.0200.001 ELECTRICAL SERVICE METER BREAKER PEDESTAL (CB-600)	656.0200.002 ELECTRICAL SERVICE METER BREAKER PEDESTAL (CB-700)	659.2130 LIGHTING CONTROL CABINETS 120/240 30-INCH
						EACH	LS	LS	EACH
		1100	STA 24+65	45.00	RT	1	1	-	1
		1110	STA 26+35	50.00	RT	1	-	1	1
						2	1	1	2
				PROJECT TOTAL		**2**	**1**	**1**	**2**

ALL ITEMS ARE CATEGORY **1000** UNLESS OTHERWISE SPECIFIED.

WIRING

WIS 441 Lighting - Contract 1517-75-76

CATEGORY	SYSTEM	CB/POLE/PB	FROM	CB/POLE/PB	TO	# OF CONDUITS	# OF PHASE CONDUCTORS	# OF GROUND CONDUCTORS	652.0225 CONDUIT RIGID NONMETALLIC SCHEDULE 40 2-INCH LF	652.0235 CONDUIT RIGID NONMETALLIC SCHEDULE 40 3-INCH LF	655.0610 ELECTRICAL WIRE LIGHTING 12 AWG LF	655.0620 ELECTRICAL WIRE LIGHTING 8 AWG LF	655.0625 ELECTRICAL WIRE LIGHTING 6 AWG LF
1100	ROUNDABOUT & CONNECTOR RD	CB-600	STA 24+65	LPB01	STA 24+70	1	4	1	-	15	-	165	-
		LPB01	STA 24+70	SL601	STA 23+46	1	4	1	124	-	135	700	-
DOT		SL601	STA 23+46	SL602	STA 21+69	1	4	1	177	-	135	965	-
		SL602	STA 21+69	SL603	STA 19+69	1	2	1	200	-	135	648	-
		CB-600	STA 24+65	LPB01	STA 24+70	1	4	1	-	15	-	165	-
		LPB01	STA 24+70	LPB02	STA 24+85	1	4	1	-	40	-	280	-
		LPB02	STA 24+85	LPB03	STA 237+38	1	4	1	-	62	-	390	-
		LPB03	STA 237+38	SL604	STA 237+27	1	4	1	11	-	135	135	-
		SL604	STA 237+27	LPB03	STA 237+38	1	4	1	-	-	-	135	-
		LPB03	STA 237+38	LPB04	STA 237+38	1	4	1	-	47	-	315	-
		LPB04	STA 237+38	LPB05	STA 11+87	1	4	1	-	29	-	225	-
		LPB05	STA 11+87	SL605	STA 237+30	1	4	1	38	-	135	270	-
		SL605	STA 237+30	LPB05	STA 11+87	1	4	1	-	-	-	270	-
		LPB05	STA 11+87	SL606	STA 238+00	1	4	1	62	-	135	390	-
		SL606	STA 238+00	SL607	STA 240+08	1	4	1	208	-	135	1120	-
		SL607	STA 240+08	SL608	STA 242+00	1	4	1	192	-	135	1040	-
		SL608	STA 242+00	SL609	STA 243+80	1	2	1	180	-	135	588	-
		CB-600	STA 24+65	LPB01	STA 24+70	1	4	1	-	-	-	165	-
		LPB01	STA 24+70	SL610	STA 25+00	1	4	1	20	-	135	180	-
		SL610	STA 25+00	LPB06	STA 26+28	1	4	1	95	-	-	555	-
		LPB06	STA 26+28	LPB07	STA 26+25	1	4	1	-	34	-	250	-
		LPB07	STA 26+25	SL611	STA 26+15	1	4	1	10	-	270	130	-
		SL611	STA 26+15	LPB07	STA 26+25	1	4	1	-	-	-	130	-
		LPB07	STA 26+25	LPB08	STA 23+50	1	4	1	-	54	-	350	-
		LPB08	STA 23+50	LPB09	STA 23+60	1	4	1	-	63	-	395	-
		LPB09	STA 23+60	SL612	STA 23+09	1	2	1	35	-	135	153	-
		SL612	STA 23+09	LPB09	STA 23+60	1	2	1	-	-	-	153	-
		LPB09	STA 23+60	SL613	STA 24+45	1	4	1	82	-	135	490	-
		SL613	STA 24+45	SL614	STA 25+40	1	4	1	130	-	135	730	-
		SL614	STA 25+40	LPB10	STA 26+72	1	4	1	132	-	-	740	-
		LPB10	STA 26+72	LPB11	STA 26+77	1	4	1	-	42	-	290	-
		LPB11	STA 26+77	SL615	STA 26+47	1	2	1	30	-	135	138	-
		SL615	STA 26+47	LPB11	STA 26+77	1	-	1	-	-	-	46	-
		LPB11	STA 26+77	LPB12	STA 13+50	1	2	1	-	45	-	183	-
		LPB12	STA 13+50	LPB13	STA 13+50	1	2	1	-	32	-	144	-
		LPB13	STA 13+50	SL616	STA 13+40	1	2	1	10	-	135	78	-
		LPB13	STA 13+50	SL605	STA 237+30	1	-	-	93	-	-	-	-
CATEGORY 1100 TOTAL													
ROUNDABOUT AND CONNECTOR RD									1829	478	2295	13101	0
1110	RACINE ROAD	CB-700	STA 26+35	LPB101	STA 26+65	1	2	1	-	28	-	138	-
		LPB101	STA 26+65	SL701	STA 18+17	1	2	1	517	-	135	1599	-
MENASHA		CB-700	STA 26+35	LPB101	STA 26+65	1	4	1	-	28	-	230	-
		LPB101	STA 26+65	LPB102	STA 26+65	1	4	1	-	51	-	335	-
		LPB102	STA 26+65	LPB103	STA 23+18	1	4	1	-	39	-	275	-
		LPB103	STA 23+18	LPB104	STA 22+91	1	4	1	-	55	-	355	-
		LPB104	STA 22+91	LPB105	STA 21+86	1	4	1	105	-	-	605	-
		LPB105	STA 21+86	LPB106	STA 21+73	1	4	1	48	-	-	320	-
		LPB106	STA 21+73	SL702	STA 21+65	1	4	1	7	-	270	115	-
		SL702	STA 21+65	LPB106	STA 21+73	1	2	1	-	-	-	69	-
		LPB106	STA 21+73	LPB105	STA 21+86	1	2	1	-	48	-	192	-
		LPB105	STA 21+86	SL703	STA 19+95	1	2	1	191	-	135	621	-
		CB-700	STA 26+35	LPB101	STA 26+65	1	4	1	-	-	-	46	184
		LPB101	STA 26+65	LPB102	STA 26+65	1	4	1	-	-	-	67	268
		LPB102	STA 26+65	LPB103	STA 23+18	1	4	1	-	-	-	55	220
		LPB103	STA 23+18	LPB104	STA 22+91	1	4	1	-	-	-	71	284
		LPB104	STA 22+91	LPB107	STA 25+02	1	4	1	207	-	-	223	892
		LPB107	STA 25+02	LPB108	STA 27+50	1	4	1	270	-	-	286	1144
		LPB108	STA 27+50	SL704	STA 27+50	1	4	1	16	-	135	32	128
		SL704	STA 27+50	LPB108	STA 27+50	1	8	2	16	-	-	64	256
		LPB108	STA 27+50	LPB109	STA 28+70	1	8	2	130	-	-	292	1088
		LPB109	STA 28+70	LPB110	STA 29+41	1	4	1	-	71	-	87	348
		LPB110	STA 29+41	SL705	STA 29+45	1	4	1	16	-	135	32	128
		SL705	STA 29+45	SL706	STA 30+92	1	4	1	169	-	135	185	740
		SL706	STA 30+92	SL707	STA 35+00	1	4	1	408	-	135	424	1696
		LPB109	STA 28+70	LPB111	STA 28+65	1	4	1	-	117	-	133	532
		LPB111	STA 28+65	SL708	STA 28+70	1	4	1	12	-	-	28	112
		SL708	STA 28+70	SL709	STA 32+90	1	4	1	420	-	135	436	1744
		LPB107	STA 25+02	LPB112	STA 25+75	-	-	-	65	-	-	-	-
CATEGORY 1110 TOTAL													
RACINE RD									2597	437	1215	7315	9764
PROJECT TOTAL									**4426**	**915**	**3510**	**20416**	**9764**

ALL ITEMS ARE CATEGORY **1000** UNLESS OTHERWISE SPECIFIED.

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REMOVING CONCRETE BASES

STATION	LOCATION	204.0195 REMOVING CONCRETE BASES EACH
15NS+06	20' LT	1
15NS+20	30' LT	1
16RNB+07	39' LT	1
16RNB+23	28' LT	1
16RNB+40	27' RT	1
16RNB+13	38' RT	1
16NS+18	22' LT	1
16NS+16	30' RT	1
15RNB+33	36' RT	1
15RNB+22	28' RT	1
15RNB+15	26' LT	1
15RNB+29	38' LT	1
15NS+13	29' RT	1
15NS+14	34' RT	1
TOTAL		14

REMOVING PULL BOXES

STATION	LOCATION	653.0905 REMOVING PULL BOXES EACH
15NS+15	21' LT	1
16RNB+20	29' LT	1
16NS+04	30' LT	1
16NS+06	31' RT	1
15RNB+34	29' RT	1
15RNB+28	31' LT	1
15NS+15	28' RT	1
TOTAL		7

PULL BOXES

DESCRIPTION	STATION	LOCATION	653.0135 PULL BOXES STEEL 24x36-INCH EACH	653.0140 PULL BOXES STEEL 24x42-INCH EACH	653.0105 PULL BOXES STEEL 12x24-INCH EACH
PB1	14NS+97	LT	---	1	---
PB2	16RNB+22	LT	---	1	---
PB3	16RNB+65	LT	1	---	---
PB4	16RNB+24	LT	---	1	---
PB5	16NS+14	RT	---	1	---
PB6	16NS+31	LT	1	---	---
PB7	16NS+16	LT	---	1	---
PB8	15RNB+17	RT	---	1	---
PB9	14RNB+73	RT	1	---	---
PB10	15RNB+18	RT	---	1	---
PB11	14NS+97	LT	---	1	---
PB12	14NS+81	RT	1	---	---
LOOP DETECTORS			---	---	18
TOTALS			4	8	18

REMOVE AND SALVAGE EXISTING TRAFFIC SIGNALS (RACINE ST & 9TH ST)

LOCATION	SPV.0105.451 LS
RACINE STREET & 9th STREET	1
	1

REMOVE AND SALVAGE EXISTING TRAFFIC SIGNALS (RACINE RD AND CONNECTORS)

LOCATION	SPV.0105.452 LS
RACINE ROAD & CONNECTORS	1
	1

CONCRETE BASES

BASE NO.	STATION	LOCATION	654.0101 CONCRETE BASES TYPE 1 EACH	654.0102 CONCRETE BASES TYPE 2 EACH	654.0215 CONCRETE CONTROL CABINET BASES TYPE 9 EACH
SB1	15NS+05	23' LT	---	1	---
SB2	16RNB+13	48' LT	1	---	---
SB3	16RNB+16	37' RT	---	1	---
SB4	16NS+09	33' LT	1	---	---
SB5	16NS+10	33' RT	---	1	---
SB6	15RNB+25	26' RT	1	---	---
SB7	15RNB+23	26' LT	---	1	---
SB8	15NS+03	30' RT	1	---	---
CB1	14NS+87	32' LT	---	---	1
		TOTALS	4	4	1

ALL ITEMS ON THIS PAGE ARE CATEGORY 1300

INTERSECTION OF RACINE STREET & 9TH STREET

3

3

CONDUIT

FROM	TO	LINEAR DISTANCE	652.0225 CONDUIT RIGID NONMETALLIC SCHEDULE 40 2-INCH LF	652.0235 CONDUIT RIGID NONMETALLIC SCHEDULE 40 3-INCH LF
CB1	PB1	13	---	26
PB1	PB2	34	---	68
PB2	PB3	43	43	---
PB2	PB4	82	---	164
PB4	PB5	25	---	56
PB5	PB6	17	17	---
PB5	PB7	57	---	118
PB7	PB8	41	---	82
PB8	PB9	45	45	---
PB8	PB10	50	---	100
PB10	PB11	46	---	92
PB11	PB12	17	17	---
PB11	PB1	52	---	104
PB1	SB1	8	8	---
PB2	SB2	9	9	---
PB4	SB3	9	9	---
PB5	SB4	9	9	---
PB7	SB5	7	7	---
PB8	SB6	7	7	---
PB10	SB7	7	7	---
PB11	SB8	5	5	---
TOTALS			183	810

ELECTRICAL WIRE

FROM	TO	655.0515 ELECTRICAL WIRE TRAFFIC SIGNALS 10 AWG LF
CB1	SB1	38
SB1	SB2	83
SB2	SB3	131
SB3	SB4	77
SB4	SB5	107
SB5	SB6	86
SB6	SB7	96
SB7	SB8	90
SB8	CB1	103
CB1	PB1	14
SB2	PB2	15
SB2	PB3	36
SB3	PB4	15
SB4	PB5	15
SB4	PB6	37
SB5	PB7	13
SB6	PB8	13
SB6	PB9	35
SB7	PB10	13
SB8	PB11	12
SB8	PB12	28
TOTALS		1057

TRAFFIC SIGNAL CABLE

FROM	TO	655.0230 5-14 AWG LF	655.0240 7-14 AWG LF	655.0260 12-14 AWG LF
CB1	SB1	---	---	38
SB1	HEAD PH2-2	12	---	---
SB1	HEAD 2	---	50	---
SB1	HEAD 3	21	---	---
CB1	SB2	---	---	88
SB2	HEAD PH8-1	12	---	---
SB2	HEAD 12	21	---	---
SB2	HEAD 13	---	23	---
CB1	SB3	---	---	186
SB3	HEAD PH8-2	12	---	---
SB3	HEAD 14	---	52	---
SB3	HEAD 15	21	---	---
CB1	SB4	---	---	230
SB4	HEAD PH6-1	12	---	---
SB4	HEAD 4	21	---	---
SB4	HEAD 5	---	23	---
CB1	SB5	---	---	289
SB5	HEAD PH6-2	12	---	---
SB5	HEAD 6	---	48	---
SB5	HEAD 7	21	---	---
CB1	SB6	---	---	232
SB6	HEAD PH4-1	12	---	---
SB6	HEAD 9	---	23	---
SB6	HEAD 16	21	---	---
CB1	SB7	---	---	166
SB7	HEAD PH4-2	12	---	---
SB7	HEAD 10	---	42	---
SB7	HEAD 11	21	---	---
CB1	SB8	---	---	103
SB8	HEAD PH2-1	12	---	---
SB8	HEAD 1	---	23	---
SB8	HEAD 8	21	---	---
TOTALS		264	284	1332

LIGHTING CABLE

FROM	TO	655.0305 CABLE TYPE UF 2-12 AWG GROUNDED LF	655.0610 ELECTRICAL WIRE LIGHTING 12 AWG LF
CB1	SB1	38	---
SB1	SB7	161	---
CB1	SB3	186	---
SB3	SB5	151	---
SB1	LUMINAIRE	---	45
SB3	LUMINAIRE	---	45
SB5	LUMINAIRE	---	45
SB7	LUMINAIRE	---	45
TOTALS		536	180

LUMINAIRES

SIGNAL BASE NO.	657.0709 LUMINAIRE ARMS TRUSS TYPE 4-INCH CLAMP 12-FT EACH	659.1120 LUMINAIRES UTILITY LED B EACH
SB1	1	1
SB3	1	1
SB5	1	1
SB7	1	1
TOTALS	4	4

ALL ITEMS ON THIS PAGE ARE CATEGORY 1300

INTERSECTION OF RACINE STREET & 9TH STREET

3

TRAFFIC SIGNAL CONTROLLER AND CABINET

LOCATION	SPV.0060.450 TRAFFIC SIGNAL CONTROLLER & CABINET (RACINE ST & 9TH ST) EACH	656.0200 ELECTRICAL SERVICE METER BREAKER PEDESTAL (RACINE ST & 9TH ST) LS	656.0500 ELECTRICAL SERVICE BREAKER DISCONNECT BOX (RACINE ST & 9TH ST) LS
CB1	1	1	1
TOTALS	1	1	1

SIGNAL MOUNTING HARDWARE

LOCATION	658.5069 LS
RACINE STREET & 9th STREET	1
TOTAL	1

TEMPORARY SIGNALS RACINE ST AND 9TH ST

LOCATION	SPV.0105.004 LS
RACINE STREET & 9th STREET	1
TOTAL	1

TRAFFIC SIGNAL LOOPS

LOOP NO.	HOME RUN PB	STATION	LOCATION	SIZE	NO. OF TURNS	SDD INSTALLATION REFERENCE	652.0800 CONDUIT LOOP DETECTOR LF	655.0700 LOOP DETECTOR LEAD-IN CABLE LF	655.0800 LOOP DETECTOR WIRE LF
11	PB9	14RNB+67	5.5' LT	6' x 6'	4	SDD 9F5	55	192	143
12	PB9	14RNB+93	5.5' LT	6' x 20'	3	SDD 9F5	83	192	209
21	PB3	16RNB+71	18' LT	6' x 6'	3	SDD 9F5	54	83	118
22	PB3	16RNB+71	35' LT	6' x 6'	3	SDD 9F5	38	83	102
31	PB6	16NS+43	6' RT	6' x 6'	4	SDD 9F5	59	162	147
41	PB12	14NS+72	17.5' RT	6' x 6'	3	SDD 9F5	39	73	103
42	PB12	15NS+05	17.5' RT	6' x 20'	2	SDD 9F5	64	73	132
43	PB12	15NS+05	6' RT	6' x 20'	2	SDD 9F5	75	73	143
51	PB3	16RNB+71	6' LT	6' x 6'	3	SDD 9F5	65	83	129
52	PB3	16RNB+45	6' LT	6' x 20'	2	SDD 9F5	93	83	109
61	PB9	14RNB+67	5.5' RT	6' x 6'	4	SDD 9F5	45	192	133
62	PB9	14RNB+67	16' RT	6' x 6'	4	SDD 9F5	35	192	123
71	PB12	14NS+72	6' RT	6' x 6'	3	SDD 9F5	49	73	113
81	PB6	16NS+43	6' LT	6' x 6'	4	SDD 9F5	49	162	137
82	PB6	16NS+08	6' LT	6' x 20'	3	SDD 9F5	74	162	194
83	PB6	16NS+43	17.5' LT	6' x 6'	4	SDD 9F5	40	162	128
84	PB6	16NS+08	17.5' LT	6' x 20'	3	SDD 9F5	34	162	182
85	PB6	16NS+17	6' RT	6' x 20'	3	SDD 9F5	83	162	203
TOTALS							1034	2364	2548

TRAFFIC SIGNAL POLES AND BASES

SIGNAL BASE NO.	657.0100 PEDESTAL BASES EACH	657.0255 TRANSFORMER BASES BREAKAWAY 11 1/2-INCH BOLT CIRCLE EACH	657.0310 POLES TYPE 3 EACH	657.0425 TRAFFIC SIGNAL STANDARDS ALUMINUM 15-FT EACH	657.0585 TROMBONE ARMS 15-FT EACH	657.0595 TROMBONE ARMS 25-FT EACH	658.0500 PEDESTRIAN PUSH BUTTONS EACH
SB1	---	1	1	---	---	1	1
SB2	1	---	---	1	---	---	1
SB3	---	1	1	---	---	1	1
SB4	1	---	---	1	---	---	1
SB5	---	1	1	---	---	1	1
SB6	1	---	---	1	---	---	1
SB7	---	1	1	---	1	---	1
SB8	1	---	---	1	---	---	1
TOTALS	4	4	4	4	1	3	8

ALL ITEMS ON THIS PAGE ARE CATEGORY 1300

INTERSECTION OF RACINE STREET & 9TH STREET

3

3

TRAFFIC SIGNAL FACES AND MODULES

SIGNAL HEAD NO.	SIGNAL BASE NO.	658.0110 TRAFFIC SIGNAL FACE 3-12 Inch VERTICAL EACH	658.0120 TRAFFIC SIGNAL FACE 5-12 Inch VERTICAL EACH	658.0165 TRAFFIC SIGNAL FACE 5-12 Inch HORIZONTAL EACH	658.0215 BACKPLATES SIGNAL FACE 3 SECTION 12-Inch EACH	658.0225 BACKPLATES SIGNAL FACE 5 SECTION 12-Inch EACH	658.0416 PEDESTRIAN SIGNAL FACE 16-INCH EACH	658.0600 LED MODULES 12-INCH RED BALL EACH	658.0605 LED MODULES 12-INCH YELLOW BALL EACH	658.0610 LED MODULES 12-INCH GREEN BALL EACH	658.0620 LED MODULES 12-INCH YELLOW ARROW EACH	658.0625 LED MODULES 12-INCH GREEN ARROW EACH	658.0635 LED MODULES PEDESTRIAN COUNTDOWN TIMER 16-INCH EACH
1	SB8	---	1	---	---	1	---	1	1	1	1	1	---
2	SB1	---	---	1	---	1	---	1	1	1	1	1	---
3	SB1	1	---	---	1	---	---	1	1	1	---	---	---
4	SB4	1	---	---	1	---	---	1	1	1	---	---	---
5	SB4	---	1	---	---	1	---	1	1	1	1	1	---
6	SB5	---	---	1	---	1	---	1	1	1	1	1	---
7	SB5	1	---	---	1	---	---	1	1	1	---	---	---
8	SB8	1	---	---	1	---	---	1	1	1	---	---	---
9	SB6	---	1	---	---	1	---	1	1	1	1	1	---
10	SB7	---	---	1	---	1	---	1	1	1	1	1	---
11	SB7	1	---	---	1	---	---	1	1	1	---	---	---
12	SB2	1	---	---	1	---	---	1	1	1	---	---	---
13	SB2	---	1	---	---	1	---	1	1	1	1	1	---
14	SB3	---	---	1	---	1	---	1	1	1	1	1	---
15	SB3	1	---	---	1	---	---	1	1	1	---	---	---
16	SB6	1	---	---	1	---	---	1	1	1	---	---	---
PH2-1	SB8	---	---	---	---	---	1	---	---	---	---	---	1
PH2-2	SB1	---	---	---	---	---	1	---	---	---	---	---	1
PH4-1	SB6	---	---	---	---	---	1	---	---	---	---	---	1
PH4-2	SB7	---	---	---	---	---	1	---	---	---	---	---	1
PH6-1	SB4	---	---	---	---	---	1	---	---	---	---	---	1
PH6-2	SB5	---	---	---	---	---	1	---	---	---	---	---	1
PH8-1	SB2	---	---	---	---	---	1	---	---	---	---	---	1
PH8-2	SB3	---	---	---	---	---	1	---	---	---	---	---	1
	TOTALS	8	4	4	8	8	8	16	16	16	8	8	8

ALL ITEMS ON THIS PAGE ARE CATEGORY 1300

TRANSPORTATION PROJECT PLAT NO: 1517-07-21 - 4.11 AMENDMENT NO. 2

AMENDS PARCEL 43 TO TPP 1517-07-21-4.11 AMENDMENT NO. 1 RECORDED AS DOCUMENT 1685801.

USH 10 / STH 441, CTH CB - S. ONEIDA ST.

PART OF LOTS 1 AND 2 OF CSM 2522, LOT 1 OF CSM 2875 AND LANDS IN THE SE 1/4 OF THE SE 1/4 OF SECTION 10, TOWNSHIP 20 NORTH, RANGE 17 EAST, TOWN OF MENASHA, LANDS IN THE SE 1/4 OF THE SE 1/4 OF SECTION 10, TOWNSHIP 20 NORTH, RANGE 17 EAST, CITY OF MENASHA, LOT 1 OF CSM 278 IN THE SW 1/4 OF THE SW 1/4 OF SECTION 11, TOWNSHIP 20 NORTH, RANGE 17 EAST, TOWN OF MENASHA AND LANDS IN THE SW 1/4 OF THE SW 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.

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. 1517-07-00-4.06, DOCUMENT NO. 1590511, FILED IN FILE 1, TPP PG 196.

EXISTING ACCESS CONTROL WAS ACQUIRED UNDER PROJECT: 4685-04-00 & 4686-01-00, 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

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
518	MENASHA UTILITIES - ELECTRIC	RELEASE OF RIGHTS
522	TOWN OF MENASHA - WATER	RELEASE OF RIGHTS
605	TOWN OF MENASHA - SANITARY SEWER	UTILITY AGREEMENT
616	CITY 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

*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 SYMBOLS

FOUND IRON PIPE/PIN (3/4" IRON REBAR UNLESS NOTED)
R/W MONUMENT
R/W STANDARD
SIGN
SECTION CORNER MONUMENT
SECTION CORNER SYMBOL
FEE (HATCH VARIES)
TEMPORARY LIMITED EASEMENT
PERMANENT LIMITED EASEMENT
R/W BOUNDARY POINT
PARCEL NUMBER
UTILITY NUMBER
SIGN NUMBER (OFF PREMISE)
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

	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		

RL RACINE ROAD
PI STA. 19+34.05
Y : 545677.924
X : 817193.333
DELTA = 9°21'57"
D = 5°06'57"
T = 91.75'
L = 183.08
R = 1120.00

RL RACINE ROAD
PI STA. 23+29.57
Y : 546064.593
X : 817278.451
DELTA = 48°48'30"
D = 51°09'25"
T = 50.82'
L = 95.41
R = 112.00

RL RACINE ROAD
PI STA. 25+02.01
Y : 546144.320
X : 817438.213
DELTA = 59°19'47"
D = 60°38'02"
T = 53.82'
L = 97.85
R = 94.49

RL RACINE ROAD
PI STA. 27+74.24
Y : 546424.762
X : 817468.057
DELTA = 10°24'52"
D = 3°49'11"
T = 136.70'
L = 272.65
R = 1500.00

SEC 2017-048
P.K. NAIL
Y 547958.626
X 817626.459

SEE PLAT NO. 1517-07-21-4.13

STATION OFFSET TABLE 9TH STREET (NS)

POINT	STATION	OFFSET	X	Y
DB974	10+00.00	0	816612.951	545325.481
DB975	12+84.32	0	816897.213	545319.857
DB976	13+64.42	0	816977.276	545322.274
DB977	17+15.58	0	817328.374	545315.328
DB978	18+21.15	0	817433.683	545307.972
DB979	19+99.86	0	817612.357	545304.534
DB980	19+59.28	4.12 R	817172.022	545314.303
TLE1377	17+12.74	41.49 L	817326.354	545356.871
TLE1378	18+25.73	41.30 L	817439.057	545349.178
TLE1379	19+00.27	33.98 L	817513.445	545340.428
TLE1391	13+34.18	48.15 L	816945.604	545369.491
TLE1392	14+05.33	33.94 L	817018.853	545355.397
TLE2197	13+68.25	28.96 L	816981.686	545351.145
2017061	19+93.66	0.90 L	817606.181	545305.552

COURSE TABLE NEW RIGHT OF WAY

POINT TO POINT		BEARING	DISTANCE
2017061	DB973	N0°26'16"E	1326.58
DB973	DB990	S89°51'21"E	41.12
DB990	ERW7143	S4°04'23"E	94.02
ERW7143	ERW7142	S4°04'19"E	60.16
ERW7142	ERW7141	S2°04'09"W	128.45
ERW7141	ERW7140	CURVE C8	
ERW7140	ERW7254	S19°23'37"W	203.18
ERW7254	ERW7266	CURVE C9	
ERW7266	ERW7253	S42°35'07"W	51.22
ERW7253	ERW7252	S40°36'15"W	128.89
ERW7252	PRW1370	CURVE C10	
PRW1370	PRW1371	S3°02'31"W	71.31
PRW1371	PRW7259	S10°37'55"E	34.64
PRW7259	PRW1155	N88°50'44"W	138.47
PRW1155	PRW1156	N68°11'42"E	32.74
PRW1156	PRW2196	N3°02'31"E	121.26
PRW2196	PRW1157	N3°55'49"E	176.80
PRW1157	PRW1351	N6°36'41"E	177.81
PRW1351	PRW1159	N5°24'30"E	223.02
PRW1159	PRW1160	N22°53'01"W	125.34
PRW1160	PRW2170	N57°21'16"W	102.26
PRW2170	PRW1336	N50°43'43"E	480.38
PRW1336	PRW1337	N0°26'16"E	103.60
PRW1337	DB973	S88°59'32"E	200.55

COURSE TABLE RACINE ROAD REFERENCE LINE

POINT TO POINT		BEARING	DISTANCE
2017061	DB980	N88°50'43"W	432.76
DB980	DB981	N4°03'27"E	28.16
DB981	DB982	N3°02'31"E	244.29
DB982	DB983	CURVE C1	
DB983	DB984	N12°24'28"E	38.15
DB984	DB985	N12°25'04"E	215.21
DB985	DB986	CURVE C2	
DB986	DB987	N61°13'35"E	31.51
DB987	DB988	N65°24'15"E	42.52
DB988	DB989	CURVE C3	
DB989	DB994	N6°04'28"E	91.50
DB994	DB995	CURVE C4	
DB995	DB967	N16°29'20"E	81.10

COURSE TABLE 9TH STREET REFERENCE LINE

POINT TO POINT		BEARING	DISTANCE
2017060	DB974	S88°50'32"E	1646.58
DB974	DB975	S88°52'00"E	284.32
DB975	DB976	N88°16'15"E	80.10
DB976	DB977	S88°52'00"E	351.17
DB977	DB978	S86°00'15"E	105.57
DB978	DB979	S88°53'51"E	178.71
DB979	2017061	N80°38'15"W	6.26

STATION OFFSET TABLE RACINE ROAD (RNB)

POINT	STATION	OFFSET		X	Y
DB967	29+91.29	0.00		817529.877	546633.610
DB973	30+14.37	83.32	R	817616.320	546632.089
DB980	15+69.78	0.00		817173.508	545314.273
DB981	15+98.01	0.00		817175.500	545342.359
DB982	18+42.30	0.00		817188.464	545586.308
DB983	20+25.38	0.00		817213.046	545767.526
DB984	20+63.54	0.00		817221.244	545804.786
DB985	22+78.75	0.00		817267.523	546014.966
DB986	23+74.16	0.00		817322.992	546089.053
DB987	24+05.67	0.00		817350.614	546104.221
DB988	24+48.19	0.00		817389.275	546121.918
DB989	25+46.04	0.00		817443.909	546197.840
DB994	26+37.54	0.00		817453.591	546288.828
DB995	29+10.19	0.00		817506.858	546555.842
PRW1155	15+99.99	88.21	L	817087.524	545349.012
PRW1156	16+13.74	58.50	L	817136.471	545658.646
PRW1157	17+08.41	57.81	L	817136.471	545658.646
PRW1159	23+24.05	124.36	L	817184.698	546128.436
PRW1160	23+37.19	164.98	L	817172.080	546177.336
TLE1331	29+50.17	162.04	R	817673.585	546548.185
PRW1332	29+78.00	48.00	L	817480.079	546634.486
PRW1336	28+63.81	82.07	L	817415.009	546532.023
PRW1337	29+60.84	109.95	L	817415.801	546635.616
PRW1351	20+79.49	69.35	L	817156.944	545835.276
TLE1352	16+05.34	77.00	L	817098.499	545353.792
TLE1353	19+34.42	72.39	L	817125.400	545687.755
TLE1354	20+03.80	83.33	L	817126.899	545762.739
TLE1355	20+05.12	75.61	L	817134.742	545762.607
TLE1356	23+06.33	130.01	L	817160.378	546098.973
TLE1366	17+53.02	61.18	L	817122.628	545500.396
TLE1369	24+86.02	215.33	R	817578.477	545998.645
PRW1370	17+09.51	42.00	R	817223.358	545451.477
PRW1371	16+38.21	42.00	R	817219.574	545380.271
TLE1375	16+72.24	59.67	R	817239.024	545413.323
TLE1376	16+17.49	59.17	R	817235.620	545358.672
TLE1381	17+53.64	56.79	R	817240.468	545494.758
TLE1382	20+29.02	159.70	R	817369.795	545736.765
TLE1383	21+86.67	246.17	R	817488.136	545872.098
TLE1385	17+25.07	64.62	R	817246.773	545465.815
TLE1402	30+00.10	136.94	R	817672.197	546631.949
TLE1403	29+91.46	302.43	R	817819.913	546547.925
TLE1404	29+81.84	305.25	R	817819.894	546537.907
TLE1405	29+24.19	321.85	R	817819.445	546477.908
TLE1406	29+11.72	325.55	R	817819.452	546464.908
TLE1407	28+87.01	224.77	R	817716.935	546473.103
TLE1408	28+71.15	189.09	R	817678.916	546469.333
TLE1409	27+51.61	208.95	R	817675.453	546363.852
TLE1410	26+43.59	214.70	R	817667.647	546271.259
TLE1411	25+61.13	209.24	R	817653.569	546190.707
TLE1412	25+60.39	201.65	R	817645.948	546190.766
PRW2170	23+35.12	245.53	L	817108.125	546226.641
PRW2196	17+35.00	58.50	L	817124.353	545482.261
TLE2198	17+52.15	77.50	L	817106.289	545500.396
TLE2199	19+33.63	78.75	L	817118.986	545687.772
TLE2240	24+60.94	260.85	R	817539.956	545907.558
ERW7140	25+70.66	200.64	R	817646.027	546201.091
ERW7141	27+33.25	199.88	R	817663.752	546349.829
ERW7142	28+77.77	176.62	R	817668.390	546478.195
ERW7143	29+37.92	155.80	R	817664.118	546538.203
ERW7252	20+31.26	155.23	R	817365.910	545739.913
ERW7254	24+88.52	208.21	R	817578.560	546009.441
PRW7259	16+04.55	50.19	R	817225.966	545346.222
ERW7266	21+89.18	241.85	R	817484.455	545875.481

SCHEDULE OF LANDS & INTERESTS REQUIRED

PARCEL NUMBER	*OWNER	INTEREST REQUIRED	NEW R/W ACRES	P.L.E. ACRES	T.L.E. ACRES
33	VAN ZEELAND OIL COMPANY, INC., LAMAR ADVERTISING, LLC	FEE/TLE	0.526	-	0.073
34	GARY A. & COLLEEN D. BENNER	FEE/TLE	0.110	-	0.071
36	DERRICK L. HANSON	FEE/TLE	0.352	-	0.036
37	BLC COMMUNITY BANK	FEE/TLE	2.839	-	0.100
39	KENNETH E. VOGEL	FEE	0.398	-	-
41	CINDA CORPORATION	TLE	-	-	0.060
42	MENASHA JOINT SCHOOL DISTRICT	TLE	-	-	0.094
43	AV FOOD MART, INC.	TLE	-	-	0.080
44	POSITIVE VENTURES, LLC	TLE	-	-	0.029
46	ROBERT R. SMITH	FEE/TLE	0.016	-	0.102
47	PAULENE R. COLLAR	TLE	-	-	0.004

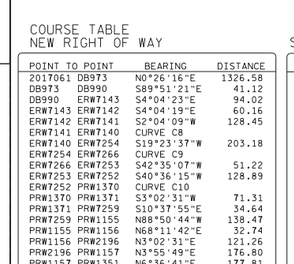
*OWNER'S NAMES ARE SHOWN FOR REFERENCE PURPOSES ONLY, AND ARE SUBJECT TO CHANGE PRIOR TO TRANSFER OF LAND INTERESTS TO THE WISCONSIN DEPARTMENT OF TRANSPORTATION.

SCHEDULE OF SIGN STRUCTURES

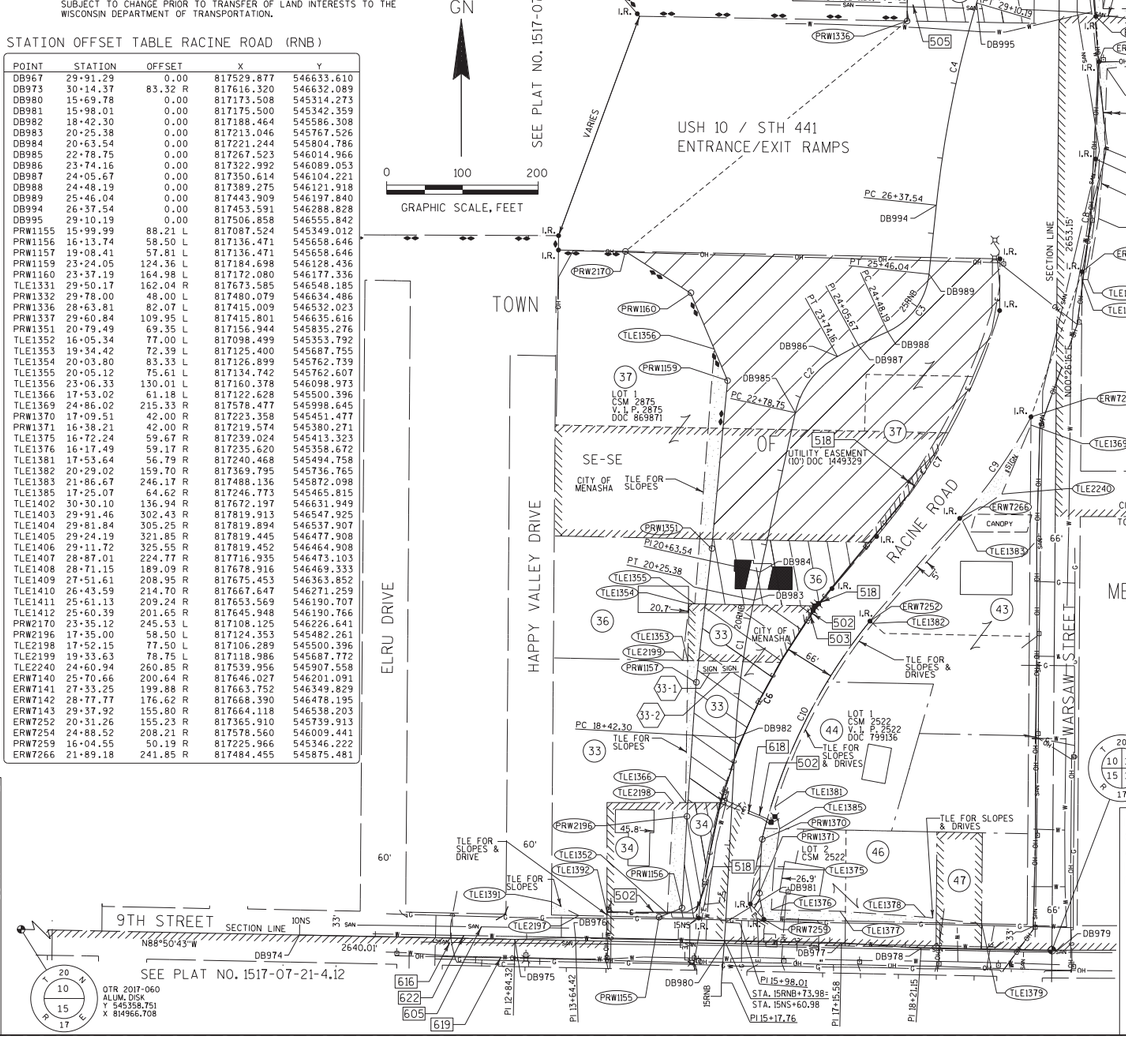
SIGN NUMBER	SIGN OWNER	OASIS NO.
33-1	LAMAR ADVERTISING, LLC, VAN ZEELAND OIL COMPANY, INC.	TOWN OF MENASHA REGULATES
33-2	LAMAR ADVERTISING, LLC, VAN ZEELAND OIL COMPANY, INC.	TOWN OF MENASHA REGULATES

CURVE TABLE

CURVE	CH DISTANCE	CH BEARING	RADIUS	ARC LENGTH	PI COORDINATES
C1	182.88	N7°43'30"E	1120.00	183.08	X 817193.333 Y 545677.924
C2	92.55	N36°49'19"E	112.00	95.41	X 817278.451 Y 546064.593
C3	93.54	N35°44'21"E	94.49	97.85	X 817438.213 Y 546144.320
C4	272.28	N11°16'54"E	1500.00	272.65	X 817468.057 Y 546424.762
C6	469.16	N22°01'46"E	796.94	476.22	X 817160.839 Y 545592.513
C7	339.50	N28°34'40"E	815.83	342.00	X 817487.658 Y 545983.424
C8	149.79	S06°47'45"W	908.83	149.96	X 817661.039 Y 546274.727
C9	163.71	S35°05'15"W	627.42	164.18	X 817540.321 Y 545936.269
C10	321.74	S26°17'59"W	730.94	324.40	X 817262.096 Y 545611.776



PLAT LOCATION



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- 4.11 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 07/24/15
GARY R. SPLINTER, P.L.S. S-2239

THIS PLAT AND RELOCATION ORDER ARE APPROVED FOR THE WISCONSIN DEPARTMENT OF TRANSPORTATION

SIGNATURE _____ DATE _____
PRINT _____

RESERVED FOR REGISTER OF DEEDS
PROJECT NUMBER 1517-07-21-4.11
AMENDMENT NO:

ACCEPTED FOR RECORDING AND FILING IN THE OFFICE OF THE REGISTER OF DEEDS IN WINNEBAGO COUNTY, WISCONSIN AT _:_ .M ON _____ AS DOCUMENT #_____ AND FILED IN _____

_____
SIGNATURE OF REGISTER OF DEEDS

FILE NAME : S:\DOT\DOT_NE\120012-Tri County Freeway\Plat\Plats\040411_RP.dgn
PLOT DATE : 7/24/2015
PLOT BY : gsplinter
PLOT NAME :
PLOT SCALE : 1:100
APPRAISAL PLAT DATE :

TRANSPORTATION PROJECT PLAT NO: 1517-07-21 - 4.12

USH 10 / STH 441, CTH CB - S. ONEIDA ST.

PART OF LOT 1 OF CSM 2751, LOTS 6, 7 AND 8, BLOCK 5 AND LOTS 6, 7 AND 8, BLOCK 6 PLAT OF REED'S FIRST ADDITION, ALL LOCATED IN THE NE 1/4 OF THE NE 1/4 OF SECTION 15, 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.

STATION OFFSET TABLE RACINE STREET

POINT	STATION	OFFSET		X	Y
DB980	15-69.81	0		817172.022	545314.303
DB991	9-00.00	0		817164.444	544644.574
DB992	15-17.76	0		817169.822	545262.306
PRW1418	15-34.32	53.85	R	817223.973	545277.249
PRW1419	15-19.23	33.55	R	817203.389	545263.424
PRW1420	15-20.22	32.45	L	817137.401	545265.157
PRW1421	15-33.36	49.19	L	817120.944	545279.325
TLE1425	15-18.32	43.56	R	817213.381	545262.459
TLE1426	12-29.25	43.64	R	817210.948	544973.430
TLE1427	12-29.36	33.64	R	817200.949	544973.631
TLE1428	12-29.84	32.36	L	817134.955	544974.683
TLE1429	12-29.78	42.36	L	817124.955	544974.709
TLE1430	13-89.09	42.41	L	817126.297	545134.102
TLE1431	13-89.06	47.41	L	817121.297	545134.024
TLE1432	14-47.32	47.42	L	817121.787	545192.290
TLE1433	14-47.38	52.42	L	817116.788	545192.391
TLE1434	15-23.97	52.47	L	817117.436	545269.394

STATION OFFSET TABLE 9TH STREET

POINT	STATION	OFFSET		X	Y
DB974	10-00.00	0		816612.951	545325.481
DB975	12-84.32	0		816897.213	545319.857
DB976	13-64.42	0		816977.276	545322.274
DB977	17-15.58	0		817328.374	545315.328
DB978	18-21.15	0		817433.683	545307.972
DB979	19-99.86	0		817612.357	545304.534
DB980	15-59.28	4.12	R	817172.022	545314.303
DB993	11-89.21	0.02	L	816802.126	545321.758
TLE1422	19-21.71	45.03	R	817533.358	545261.011
TLE1423	17-44.09	48.82	R	817353.405	545264.638
TLE1424	17-44.39	53.81	R	817353.363	545259.638
TLE1435	12-96.00	51.67	R	816910.447	545268.565
TLE1437	12-96.58	36.68	R	816910.573	545283.565
ERW7318	11-89.20	35.98	R	816801.401	545285.766
ERW7319	19-21.60	35.03	R	817533.442	545271.011
2017061	19-93.66	0.90	L	817606.181	545305.552

RL RACINE STREET
PI STA. 17+37.16
Y : 545481.698
X : 817171.732
DELTA = 31°36'48"
D = 7°23'35"
T = 219.40
L = 427.61
R = 775.00

CURVE TABLE

CURVE	CH DISTANCE	CH BEARING	RADIUS	ARC LENGTH	PI COORDINATES
C1	52.04'	N02°25'23"E	775.00'	52.05'	X 817170.049 Y 545288.341

COURSE TABLE 9TH STREET REFERENCE LINE

POINT TO POINT		BEARING	DISTANCE
2017060	DB974	S88°50'32"E	1646.58
DB974	DB975	S88°52'00"E	284.32
DB975	DB976	N88°16'15"E	80.10
DB976	DB977	S88°52'00"E	351.17
DB977	DB978	S86°00'15"E	105.57
DB978	DB979	S88°53'51"E	178.71
DB979	2017061	N80°38'15"W	6.26

COURSE TABLE NEW RIGHT OF WAY

POINT TO POINT		BEARING	DISTANCE
2017061	ERW7319	S64°35'56"W	80.52
ERW7319	PRW1418	N88°50'43"W	309.53
PRW1418	PRW1419	S56°06'46"W	24.80
PRW1419	TLE1427	S00°28'57"W	289.80
TLE1427	ERW1428	N89°05'12"W	66.00
TLE1428	PRW1420	N00°28'57"E	290.48
PRW1420	PRW1421	N49°16'30"W	21.72
PRW1421	ERW7318	N88°50'43"W	319.61
ERW7318	DB993	N01°09'17"E	36.00
DB993	2017061	S88°50'43"E	804.22

COURSE TABLE RACINE STREET REFERENCE LINE

POINT TO POINT		BEARING	DISTANCE
2017061	DB991	S33°45'19"W	795.00
DB991	DB992	N00°29'56"E	617.76
DB992	DB980	CURVE C1	
DB980	2017061	S88°50'43"E	434.25

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 AT 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.

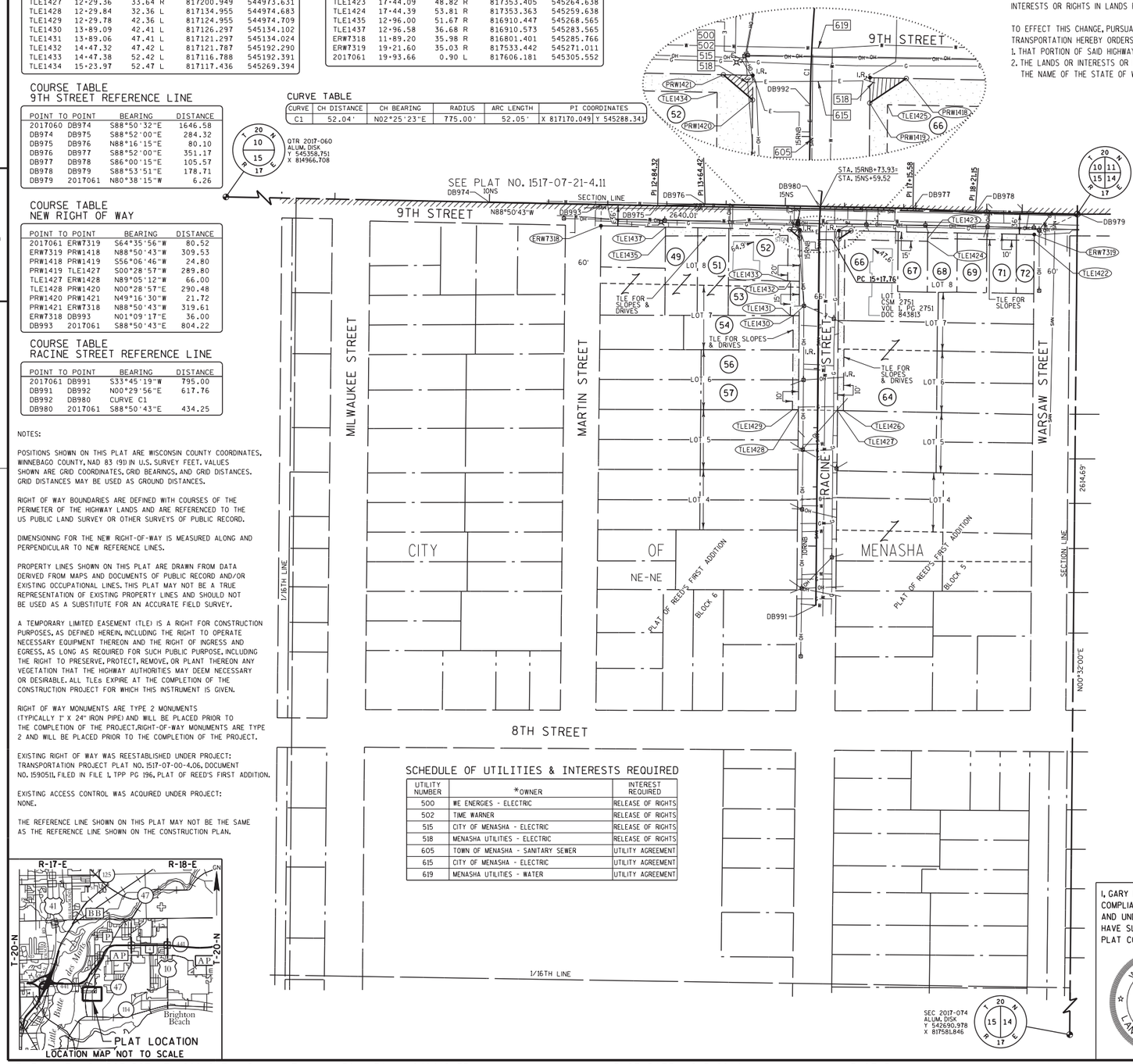
A TEMPORARY LIMITED EASEMENT (TLE) IS A RIGHT FOR CONSTRUCTION PURPOSES, AS DEFINED HEREIN, INCLUDING THE RIGHT TO OPERATE NECESSARY EQUIPMENT THEREON AND THE RIGHT OF INGRESS AND EGRESS, AS LONG AS REQUIRED FOR SUCH PUBLIC PURPOSE, INCLUDING THE RIGHT TO PRESERVE, PROTECT, REMOVE, OR PLANT THEREON ANY 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. RIGHT-OF-WAY MONUMENTS ARE TYPE 2 AND WILL BE PLACED PRIOR TO THE COMPLETION OF THE PROJECT.

EXISTING RIGHT OF WAY WAS REESTABLISHED UNDER PROJECT: TRANSPORTATION PROJECT PLAT NO. 1517-07-00-4.06, DOCUMENT NO. 1590511, FILED IN FILE 1, TPP PG 196, PLAT OF REED'S FIRST ADDITION.

EXISTING ACCESS CONTROL WAS ACQUIRED UNDER PROJECT: NONE.

THE REFERENCE LINE SHOWN ON THIS PLAT MAY NOT BE THE SAME AS THE REFERENCE LINE SHOWN ON THE CONSTRUCTION PLAN.



SCHEDULE OF UTILITIES & INTERESTS REQUIRED

UTILITY NUMBER	*OWNER	INTEREST REQUIRED
500	WE ENERGIES - ELECTRIC	RELEASE OF RIGHTS
502	TIME WARNER	RELEASE OF RIGHTS
515	CITY OF MENASHA - ELECTRIC	RELEASE OF RIGHTS
518	MENASHA UTILITIES - ELECTRIC	RELEASE OF RIGHTS
605	TOWN OF MENASHA - SANITARY SEWER	UTILITY AGREEMENT
615	CITY OF MENASHA - ELECTRIC	UTILITY AGREEMENT
619	MENASHA UTILITIES - WATER	UTILITY AGREEMENT

SCHEDULE OF LANDS & INTERESTS REQUIRED

PARCEL NUMBER	*OWNER	INTEREST REQUIRED	NEW R/W ACRES	P.L.E. ACRES	T.L.E. ACRES
49	NICK L. & LISA A. BONGEAN	TLE	-	-	0.018
51	BRIAN W. HESTERBERG	TLE	-	-	0.016
52	PRIMITIVE GATHERINGS, LLC	FEE/TLE	0.003	-	0.063
53	TIMOTHY J. & MELISSA M. SCHMIDT	TLE	-	-	0.020
54	COOPMAN ET AL.	TLE	-	-	0.013
56	JUDITH A. PFRANG	TLE	-	-	0.012
57	ADAM T. & JENNIFER A. SCHEIBE	TLE	-	-	0.012
64	LMC PROPERTY MANAGEMENT GROUP	TLE	-	-	0.035
66	JAMES C. & RENEE M. EARLY	FEE/TLE	0.003	-	0.063
67	NICHOLAS J. BOUGIE & ARIAN T. JONES	TLE	-	-	0.017
68	GREG WHEELER	TLE	-	-	0.011
69	MITCHELL M. & JENNIFER L. ISAAC	TLE	-	-	0.011
71	JAMIE BRYAN	TLE	-	-	0.011
72	WINNEBAGO COUNTY	TLE	-	-	0.007

*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.

GN

0 100 200

GRAPHIC SCALE, FEET

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)	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	(20)	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	PRW001	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	

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- 4.12 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 02/05/14
PRINT CURT VAN EREM

RESERVED FOR REGISTER OF DEEDS
PROJECT NUMBER 1517-07-21-4.12
AMENDMENT NO:

ACCEPTED FOR RECORDING AND FILING IN THE OFFICE OF THE REGISTER OF DEEDS IN WINNEBAGO COUNTY, WISCONSIN AT 2:58 PM ON 2/10/2014 AS DOCUMENT # 1657787 AND FILED IN FILE 1 OF TPP 234

Julie Gagel
SIGNATURE OF REGISTER OF DEEDS

1657787

FILE NAME : S:\DOT\DOT_NE\120012-Tri County Freeway\Plat\Plats\040412_RP.dgn | PLOT DATE : 2/5/2014 | PLOT BY : g_splinter | PLOT NAME : | PLOT SCALE : 1:100

APPRAISAL PLAT DATE :

4.12

TRANSPORTATION PROJECT PLAT NO: 1517-07-21 - 4.13 AMENDMENT NO. 2

AMENDS PARCEL 79 TO TPP 1517-07-21-4.13 AMENDMENT NO. 1 RECORDED AS DOCUMENT 1685802.

USH 10 / STH 441, CTH CB - S. ONEIDA ST.

PART OF THE NE 1/4 OF THE SE 1/4 OF SECTION 10 AND LOTS 1 AND 4 OF CSM 278 AND LANDS IN THE NW 1/4 OF THE SW 1/4 OF SECTION 11, ALL IN TOWNSHIP 20 NORTH, RANGE 17 EAST, TOWN OF MENASHA, AND LOTS 2 AND 3 OF CSM 278 IN THE NW 1/4 OF THE SW 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
41	CINDA CORPORATION	TLE	-	-	0.066
74	ST. MARY'S CONGREGATION	FEE/TLE	0.345	-	0.190
76	GARY & SHIRLEY VAN HARPEN	FEE	0.015	-	-
77	NATHAN JAHNKE	FEE/TLE	0.034	-	0.033
78	BARBARA J. HANSON	FEE/TLE	0.019	-	0.016
79	LYLE G. HANSON, JR.	TLE	-	-	0.027

*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.

CURVE TABLE

CURVE	CH DISTANCE	CH BEARING	RADIUS	ARC LENGTH	PI COORDINATES
C1	184.53	N11°40'39"E	1100.00'	184.74	X 817599.914 Y 546870.219
C2	171.91	N3°34'52"E	1500.00'	172.01	X 817621.277 Y 547047.624

RL USH-10/STH-441
PI STA. 191+10.01
Y :546278.673
X :815920.425
DELTA = 61°15'45"
D = 2°48'31"
T = 1207.95
L = 2181.23
R = 2040.00

RL USH-10/STH-441
PI STA. 210+40.05
Y :548172.811
X :816968.400
DELTA = 14°01'25"
D = 2°40'16"
T = 263.82
L = 525.00
R = 2145.00

RL RACINE ROAD
PI STA. 32+38.05
Y :546870.219
X :817599.914
DELTA = 9°37'22"
D = 5°12'31"
T = 92.59'
L = 184.74
R = 1100.00

RL RACINE ROAD
PI STA. 34+16.30
Y :547047.624
X :817621.277
DELTA = 6°34'13"
D = 3°49'11"
T = 86.10'
L = 172.01
R = 1500.00

COURSE TABLE NEW RIGHT OF WAY

POINT TO	POINT	BEARING	DISTANCE
2017048	DB922	N89°08'21"W	590.07
DB922	ERW7083	S8°09'22"E	5.80
ERW7083	ERW7084	N87°00'17"W	64.76
ERW7084	ERW7411	S0°32'56"W	657.56
ERW7411	ERW7412	S0°32'44"W	96.22
ERW7412	ERW7087	S29°59'49"W	259.76
ERW7087	ERW7065	S17°28'25"E	89.56
ERW7065	ERW7066	N29°59'49"E	223.15
ERW7066	ERW7067	S1°02'42"W	446.77
ERW7067	DB923	S41°16'34"E	5.44
DB923	PRW1332	S88°59'32"E	510.74
PRW1332	PRW1319	N25°27'39"E	102.15
PRW1319	PRW1320	N15°30'19"E	147.38
PRW1320	PRW1321	N8°54'47"E	147.47
PRW1321	DB972	S89°33'44"E	33.00
DB972	DB865	N0°26'17"E	199.35
DB865	PRW2190	S89°42'14"E	33.00
PRW2190	PRW2191	S89°42'14"E	12.00
PRW2191	PRW2192	S0°26'16"W	242.11
PRW2192	PRW2193	S53°17'32"W	15.06
PRW2193	ERW7144	S0°26'17"W	246.20
ERW7144	ERW7260	S89°00'25"E	1.50
ERW7260	DB990	S4°04'23"E	84.19
DB990	DB973	N89°51'22"W	41.12
DB973	DB923	N88°59'32"W	647.00
DB923	DB917	N60°00'32"W	774.66
DB917	DB918	N0°24'21"E	947.81
DB918	DB922	S89°08'20"E	731.34

COURSE TABLE USH 10/STH 441 REFERENCE LINE

POINT TO	POINT	BEARING	DISTANCE
2017047	DB918	S89°08'21"E	1321.42
DB918	DB917	S00°24'21"W	947.81
DB917	DB919	CURVE C1	
DB919	DB920	N28°57'16"E	692.95
DB920	DB921	CURVE C2	
DB921	2017048	S89°08'21"E	769.97

STATION OFFSET TABLE USH 10/STH 441

POINT	STATION	OFFSET		X	Y
DB917	197+14.37	0		816298.479	547030.694
DB919	200+83.29	0		816505.214	547335.636
DB920	207+76.23	0		816840.681	547941.968
DB921	208+08.63	0		816856.578	547970.195
DB922	209+02.57	155.50	R	817036.455	547967.492
DB923	198+05.62	767.23	R	816969.417	546643.468
ERW7065	199+18.57	531.35	R	816862.414	546900.991
ERW7066	200+99.01	527.03	R	816973.979	547094.251
ERW7067	198+06.44	761.91	R	816965.830	546647.555
ERW7083	208+97.81	159.26	R	817037.278	547961.751
ERW7084	208+64.62	102.49	R	816972.607	547965.135
ERW7087	199+64.47	462.33	R	816835.522	546986.419
ERW7411	202+81.98	417.03	R	816966.306	547307.605
ERW7412	201+97.34	462.81	R	816965.390	547211.385

STATION OFFSET TABLE RACINE ROAD

POINT	STATION	OFFSET		X	Y
DB967	29+91.30	0		817529.877	546633.610
DB968	33+30.21	0		817610.983	546962.143
DB969	31+45.46	0		817573.635	546781.438
DB970	35+02.21	0		817621.722	547133.722
DB971	40+96.04	0		817624.790	547727.543
DB972	33+82.75	2.90	R	817619.240	547014.168
DB973	30+14.37	83.32	R	817616.320	546632.089
DB865	35+82.00	1.37	L	817620.764	547213.513
DB990	30+25.95	122.78	R	817657.440	546631.986
PRW1319	30+78.91	32.07	L	817523.995	546726.719
PRW1320	32+28.73	31.54	L	817563.393	546868.731
TLE1322	29+71.68	70.83	L	817456.396	546634.902
TLE1323	30+38.19	51.85	L	817493.468	546693.293
TLE1324	31+20.22	51.59	L	817516.999	546771.877
TLE1325	32+07.66	45.95	L	817544.862	546852.075
TLE1326	33+37.30	36.63	L	817575.431	546973.399
TLE1327	35+26.87	43.49	R	817665.342	547158.154
TLE1328	34+68.30	59.22	R	817680.362	547098.172
TLE1329	34+02.48	52.33	R	817670.092	547030.336
PRW1332	29+78.00	48.00	L	817480.079	546634.486
PRW1333	33+80.16	30.00	L	817586.241	547014.420
PRW1337	29+60.84	109.95	L	817415.801	546635.616
TLE1402	30+30.10	136.94	R	817672.197	546631.949
TLE2175	33+62.04	49.70	L	817564.998	546998.680
TLE2176	33+79.40	49.69	L	817566.564	547015.388
TLE2177	33+86.83	41.14	L	817575.689	547021.845
TLE2178	34+04.45	39.82	L	817578.306	547038.841
TLE2179	35+05.58	47.91	L	817573.829	547137.338
TLE2180	35+10.79	42.23	L	817579.536	547142.514
TLE2181	35+44.39	44.02	L	817577.920	547176.123
TLE2182	35+57.42	62.71	L	817559.299	547189.246
TLE2183	35+75.61	62.93	L	817559.174	547207.441
TLE2184	35+80.84	34.37	L	817587.755	547212.524
TLE2185	35+26.85	52.55	R	817674.397	547158.085
TLE2186	33+49.69	57.12	R	817669.982	546975.377
TLE2187	33+30.09	46.16	R	817656.799	546956.508
PRW2190	35+82.00	31.63	R	817653.762	547213.343
PRW2191	35+82.00	43.63	R	817665.763	547213.281
PRW2192	33+45.00	51.55	R	817663.913	546971.182
PRW2193	33+35.00	40.57	R	817651.842	546962.182
TLE2241	32+11.79	80.50	R	817668.960	546827.409
TLE2242	32+09.09	67.67	R	817655.813	546827.509
ERW7144	31+04.37	91.76	R	817649.960	546715.989
ERW7260	31+04.77	93.21	R	817651.460	546715.963

SCHEDULE OF UTILITIES & INTERESTS REQUIRED

UTILITY NUMBER	*OWNER	INTEREST REQUIRED
500	WE ENERGIES - ELECTRIC	RELEASE OF RIGHTS
502	TIME WARNER	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

*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 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	Ø	Ø
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. 1517-07-00-4.06, DOCUMENT NO. 1590511, FILED IN FILE 1, TPP PG 196.
TRANSPORTATION PROJECT PLAT NO. 1517-07-00-4.07, DOCUMENT NO. 1590512, FILED IN FILE 1, TPP PG 197.

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.		
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	———
		EXISTING H.E. LINE	—— ——
R/W MONUMENT	○ •(SET)	PROPERTY LINE	—— · ——
R/W STANDARD	△ •(SET)	LOT & TIE LINES	—— ——
SIGN	⊥SIGN	SLOPE INTERCEPTS	----------
SECTION CORNER MONUMENT	◍	CORPORATE LIMITS	//////////
SECTION CORNER SYMBOL	1/4 SEC. 1/16 SEC.	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	02	SIXTEENTH LINE	—— - ——
UTILITY NUMBER	92	EXISTING CENTERLINE	—— · ——
SIGN NUMBER (OFF PREMISE)	21	PROPOSED REFERENCE LINE	
BUILDING		PARALLEL OFFSET	

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 1517-07-21-4.13 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 07/24/15
GARY R. SPLINTER, P.L.S. S-2239

THIS PLAT AND RELOCATION ORDER ARE APPROVED FOR THE WISCONSIN DEPARTMENT OF TRANSPORTATION

SIGNATURE _____ DATE _____
PRINT _____

RESERVED FOR REGISTER OF DEEDS
PROJECT NUMBER 1517-07-21-4.13
AMENDMENT NO:

ACCEPTED FOR RECORDING AND FILING IN THE OFFICE OF THE REGISTER OF DEEDS IN WINNEBAGO COUNTY, WISCONSIN AT _:_ .M ON _____
AS DOCUMENT #_____ AND FILED IN _____

_____
SIGNATURE OF REGISTER OF DEEDS

SEE PLAT NO. 1517-07-21-4.14

SEE PLAT NO. 1517-07-21-4.11

SEE PLAT NO. 1507-07-04-4.10

SEC 2017-048 P.K. NAIL Y 547958.626 X 817626.459

SEC 2017-061 ALUM. DISK Y 545305.552 X 817606.181

CTR 2017-047 ALUM. DISK Y 547998.337 X 814983.928

COURSE TABLE RACINE ROAD REFERENCE LINE

POINT TO	POINT	BEARING	DISTANCE
2017061	DB973	N0°26'16"E	1326.58
DB973	DB967	N88°59'32"W	86.46
DB967	DB969	N16°29'20"E	154.17
DB969	DB968	CURVE C1	
DB968	DB970	CURVE C2	
DB970	DB971	N0°17'46"E	597.79

PLAT LOCATION
LOCATION MAP NOT TO SCALE

FILE NAME : S:\DOT\DOT_NE\120012-Tri County Freeway\Plat\Plats\040413_RP.dgn
PLOT DATE : 7/24/2015
PLOT BY : gsplinter
PLOT NAME :
PLOT SCALE : 1:99.9999
APPRAISAL PLAT DATE :

4.13

SCHEIBE
PFRANG
COOPMAN
SCHMIDT
BONGEAN
BENNER
VANZEELAND OIL COMPANY
9TH STREET
RACINE ROAD
EARLY
SMITH
GAMERDINGER
LMC PROPERTY MANAGEMENT GROUP
LMC PROPERTY MANAGEMENT GROUP

MENASHA UTILITIES ELECTRIC
TIME WARNER CABLE
WE ENERGIES GAS
CITY OF MENASHA SANITARY SEWER
MENASHA UTILITIES WATER MAIN
TOWN OF MENASHA WATER MAIN
CITY OF MENASHA ELECTRIC
ATT CABLE
TDS METROCOM CABLE
PROPOSED RETAINING WALL SEE CONSTRUCTION DETAILS
PROPOSED R/W
EXISTING R/W
SLOPE INTERCEPT (TYP)
CAUTION

BEGIN CONSTRUCTION
STA 12RNB+50.00
BEGIN PROJECT 1517-75-76
STA 13RNB+50.00
TLE
1VMB
15NS
16NS
13RNB
14RNB
15RNB
16RNB
17RNB
18RNB
MATCHLINE 18RNB+00
10'
11'
11'
10'

N

5

5

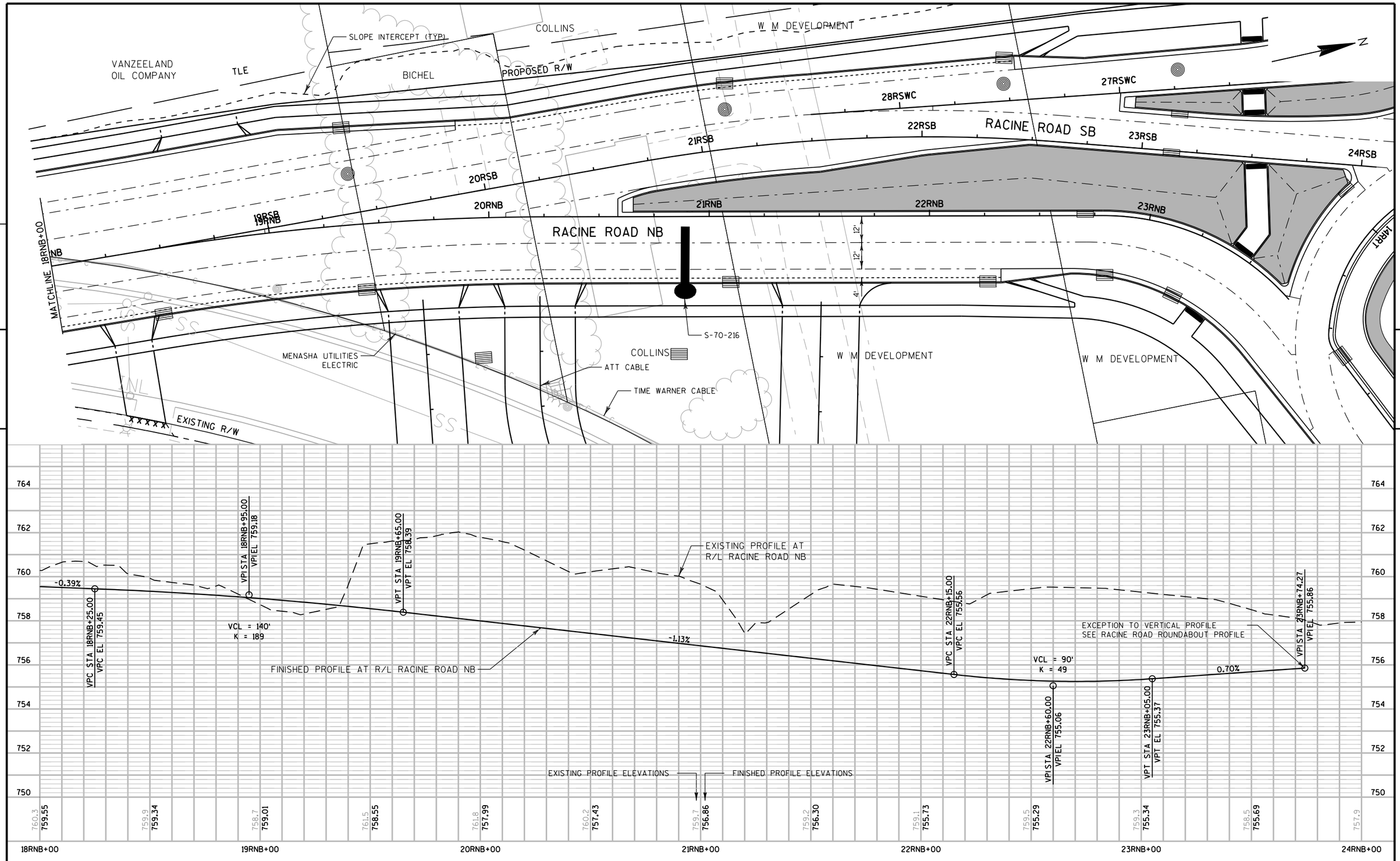
VPI STA 12RNB+50.00
VPI EL 761.14
VPC STA 12RNB+60.00
VPC EL 761.07
VCL = 90'
K = 90
-0.70%
VPI STA 13RNB+05.00
VPI EL 760.76
VPRC STA 13RNB+50.00
VPRC EL 760.89
VPI STA 14RNB+10.00
VPI EL 761.07
VCL = 120'
K = 174
VPT STA 14RNB+70.00
VPT EL 760.84
+0.39%
FINISHED PROFILE AT R/L RACINE ROAD NB
EXISTING PROFILE AT R/L RACINE ROAD NB
EXISTING PROFILE ELEVATIONS
FINISHED PROFILE ELEVATIONS

764
762
760
758
756
754
752
750

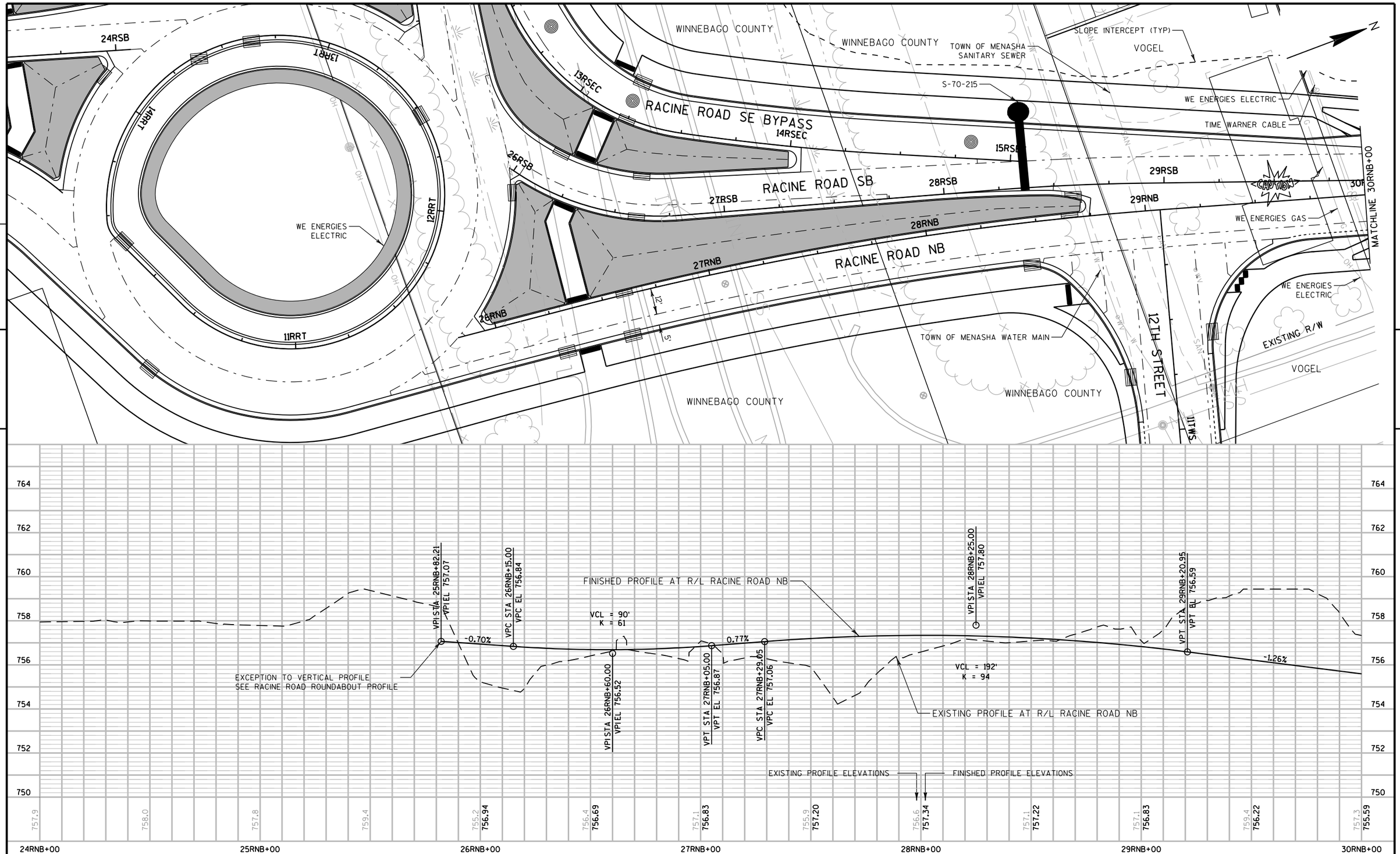
761.3
761.1 761.14
761.0 760.88
761.1 760.89
761.1 760.97
761.1 760.90
760.9 760.72
760.8 760.53
760.6 760.33
760.5 760.14
760.3 759.94
759.8 759.75
760.3 759.55

12RNB+00
13RNB+00
14RNB+00
15RNB+00
16RNB+00
17RNB+00
18RNB+00

PROJECT NO: 1517-75-76	HWY: USH 10	COUNTY: WINNEBAGO	PLAN AND PROFILE - CTH P/ RACINE RD NB	SHEET 203	E



PROJECT NO: 1517-75-76	HWY: USH 10	COUNTY: WINNEBAGO	PLAN AND PROFILE - CTH P/ RACINE RD NB	SHEET 204	E



PROJECT NO: 1517-75-76	HWY: USH 10	COUNTY: WINNEBAGO	PLAN AND PROFILE - CTH P/ RACINE RD NB	SHEET E

FILE NAME : \\milw00\ingrproj\56537\1517-75-76\t1\cds\050103_pp.dgn PLOT DATE : 1/18/2016 PLOT BY : grosemeyer PLOT NAME : PLOT SCALE : 40:1

WISDOT/CADDS SHEET 40

ST MARYS CONGREGATION

TOWN OF MENASHA SANITARY SEWER

SLOPE INTERCEPT (TYP)

PROPOSED R/W

TLE

END PROJECT 1517-75-76
STA 35RNB+02.31

END CONSTRUCTION
STA 35RNB+77.04

EXISTING R/W

MATCHLINE 30RNB+00

30RSB
30RNB
31RNB
31RSB
32RNB
33RNB
34RNB
35RNB
36RNB

4'
12'
12'
4'

RACINE ROAD

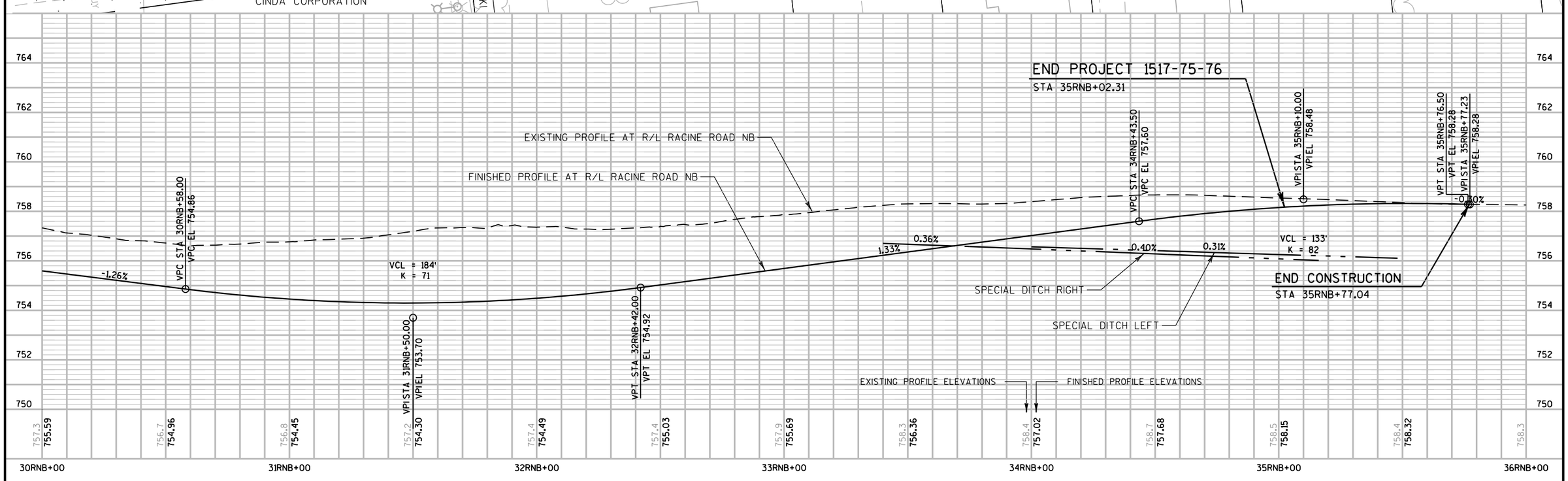
OPDO
OSDM
MDSO

WE ENERGIES ELECTRIC
WE ENERGIES GAS
TIME WARNER CABLE
TOWN OF MENASHA SANITARY SEWER
TOWN OF MENASHA WATER MAIN
ATT CABLE
TDS CABLE
MENASHA UTILITIES ELECTRIC
TOWN OF MENASHA WATER MAIN (DISCONTINUED)
WE ENERGIES ELECTRIC
VAN HARPEN

CAUTION

CINDA CORPORATION
SPILSKI
HANSON
BAKER

5



PROJECT NO: 1517-75-76	HWY: USH 10	COUNTY: WINNEBAGO	PLAN AND PROFILE - CTH P/ RACINE RD NB	SHEET 206	E

FILE NAME : \\milw00\ingrproj\56537\1517-75-76\t1\cds\050104_pp.dgn PLOT DATE : 1/18/2016 PLOT BY : grosemeyer PLOT NAME : PLOT SCALE : 40:1

WISDOT/CADDS SHEET 40

W M DEVELOPMENT
W M DEVELOPMENT
COLLINS
SLOPE INTERCEPT (TYP)
TLE
PROPOSED R/W
BEGIN CONSTRUCTION
STA 20RSB+61.04
RACINE ROAD SW BYPASS
26RSWC
25TCSB
VANZEELAND
OIL COMPANY
BICHEL
28RSWC
4'
12'
12'
12'
22RSB
RACINE ROAD SB
23RSB
24RSB
21RSB
13ART
14ART
23RNB
22RNB
21RNB
20RSB
20RNB
19RSB
19RNB
RACINE ROAD NB
TIME WARNER CABLE
MENASHA UTILITIES ELECTRIC
ATT CABLE
WE ENERGIES ELECTRIC
S-70-216
COLLINS
BICHEL
W M DEVELOPMENT
W M DEVELOPMENT
5
5

764
762
760
758
756
754
752
750

EXISTING PROFILE AT R/L RACINE RD SB
PROPOSED PROFILE AT R/L RACINE RD SB
VPI STA 20RSB+61.04
VPI EL 756.87
-0.83%
VPC STA 22RSB+65.00
VPC EL 755.17
VCL = 90'
K = 59
VPI STA 23RSB+10.00
VPI EL 754.80
0.70%
VPT STA 23RSB+55.00
VPT EL 755.11
VPI STA 24RSB+06.81
VPI EL 755.41
BEGIN CONSTRUCTION 1517-75-76
STA 20RSB+61.04
EXCEPTION TO VERTICAL PROFILE
SEE RACINE ROAD ROUNDABOUT
PROFILE
EXISTING PROFILE ELEVATIONS
FINISHED PROFILE ELEVATIONS

758.7	761.4	762.2	760.2	
759.4	758.3	758.8	759.3	759.3	758.9	759.0	759.6	759.1
	756.55	756.13	755.71	755.30	754.98	755.08	755.43	

19RSB+00 20RSB+00 21RSB+00 22RSB+00 23RSB+00 24RSB+00 25RSB+00

PROJECT NO: 1517-75-76	HWY: USH 10	COUNTY: WINNEBAGO	PLAN AND PROFILE - CTH P/ RACINE RD SB	SHEET 207 E

RACINE ROAD CONNECTOR NB
237CSB
237CNB
12RSEC
13RSEC
14RSEC
15RSEC
13RRT
12RRT
26RSB
27RSB
28RSB
29RSB
30RSB
31RSB
26RNB
27RNB
28RNB
29RNB
30RNB
31RNB
RACINE ROAD SE BYPASS
RACINE ROAD SB
RACINE ROAD NB
12TH STREET
WINNEBAGO COUNTY
WINNEBAGO COUNTY
STATE OF WISCONSIN
ST MARYS CONGREGATION
ST MARYS CONGREGATION
VOGEL
VOGEL
SLOPE INTERCEPT (TYP)
TOWN OF MENASHA SANITARY SEWER
TOWN OF MENASHA WATER MAIN
PROPOSED R/W
EXISTING R/W
END CONSTRUCTION
STA 28RSB+64.64
S-70-215
WE ENERGIES ELECTRIC
TIME WARNER CABLE
TLE
WE ENERGIES GAS
CAUTION
WE ENERGIES ELECTRIC
TIME WARNER CABLE
WE ENERGIES ELECTRIC
WE ENERGIES ELECTRIC
5'
12'
N
5
5

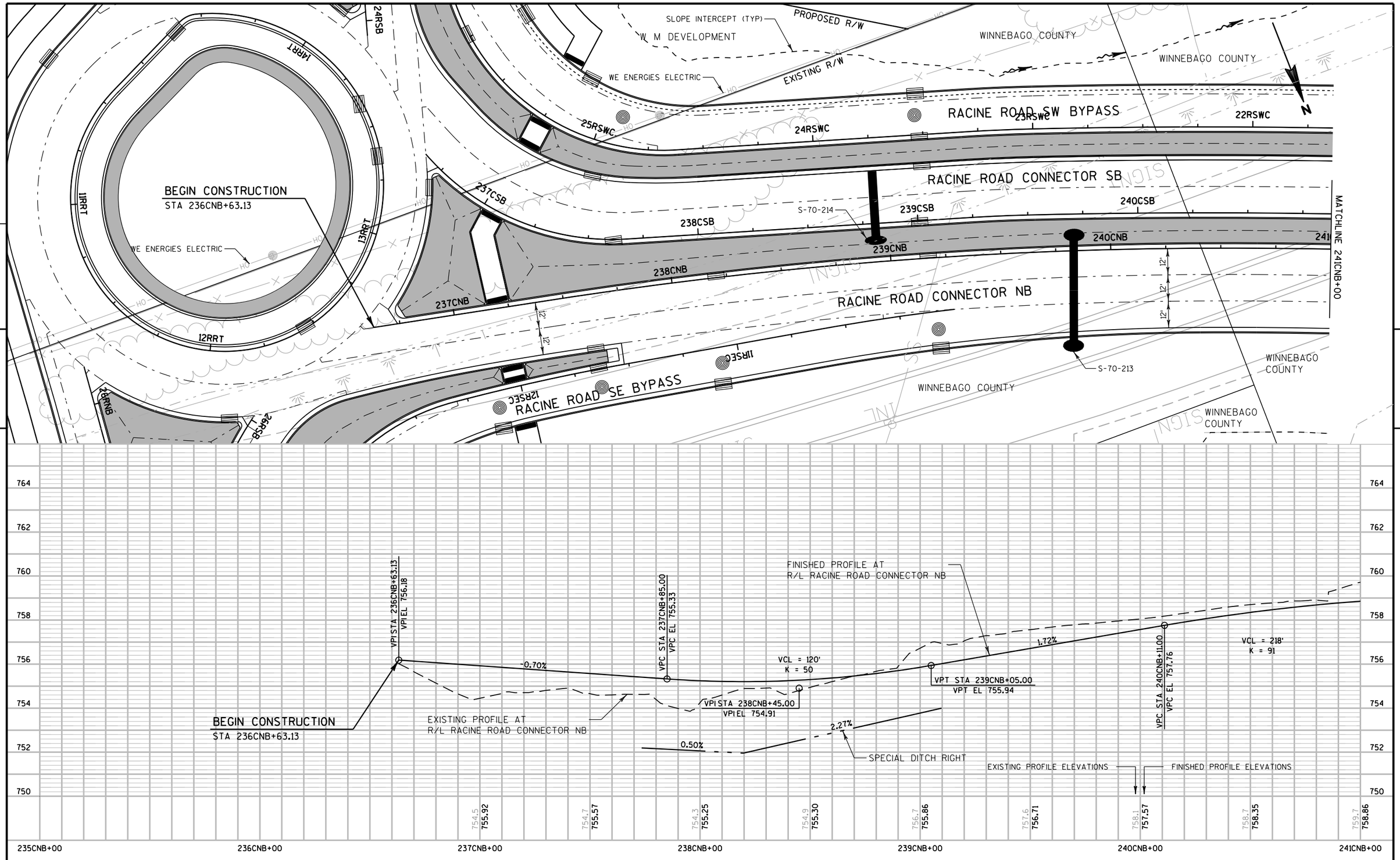
764
762
760
758
756
754
752
750

PROPOSED PROFILE AT R/L RACINE RD SB
EXISTING PROFILE AT R/L RACINE RD SB
VPI STA 25RSB+97.59
VPI EL 756.49
VPC STA 26RSB+25.00
VPC EL 756.29
-0.70%
VCL = 90'
K = 50
VPI STA 26RSB+70.00
VPI EL 755.98
VPT STA 27RSB+15.00
VPT EL 756.48
VPC STA 27RSB+26.00
VPC EL 756.60
1.11%
VPI STA 27RSB+95.00
VPI EL 757.37
VCL = 138'
K = 70
VPT STA 28RSB+64.00
VPT EL 756.78
VPI STA 28RSB+64.64
VPI EL 756.78
-0.85%
EXCEPTION TO VERTICAL PROFILE
SEE RACINE ROAD ROUNDABOUT PROFILE
END CONSTRUCTION 1517-75-76
STA 28RSB+64.64
EXISTING PROFILE ELEVATIONS
FINISHED PROFILE ELEVATIONS

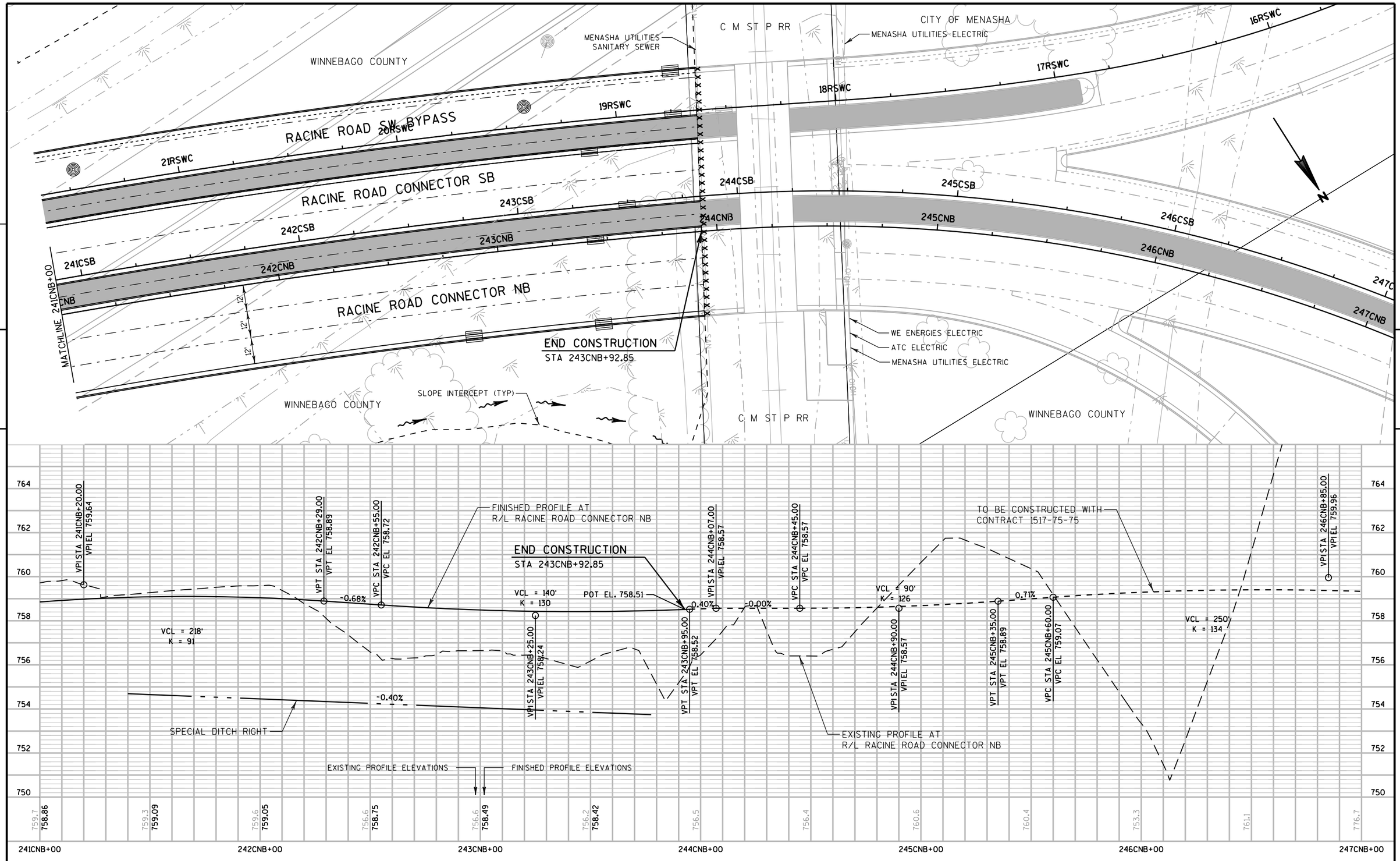
759.1	756.4	755.2 **756.47**	756.7 **756.18**	756.2 **756.34**
754.8 **756.83**	757.2 **757.04**	757.2 **756.89**	757.7	759.4
757.1	756.6	756.8		

25RSB+00 | 26RSB+00 | 27RSB+00 | 28RSB+00 | 29RSB+00 | 30RSB+00 | 31RSB+00

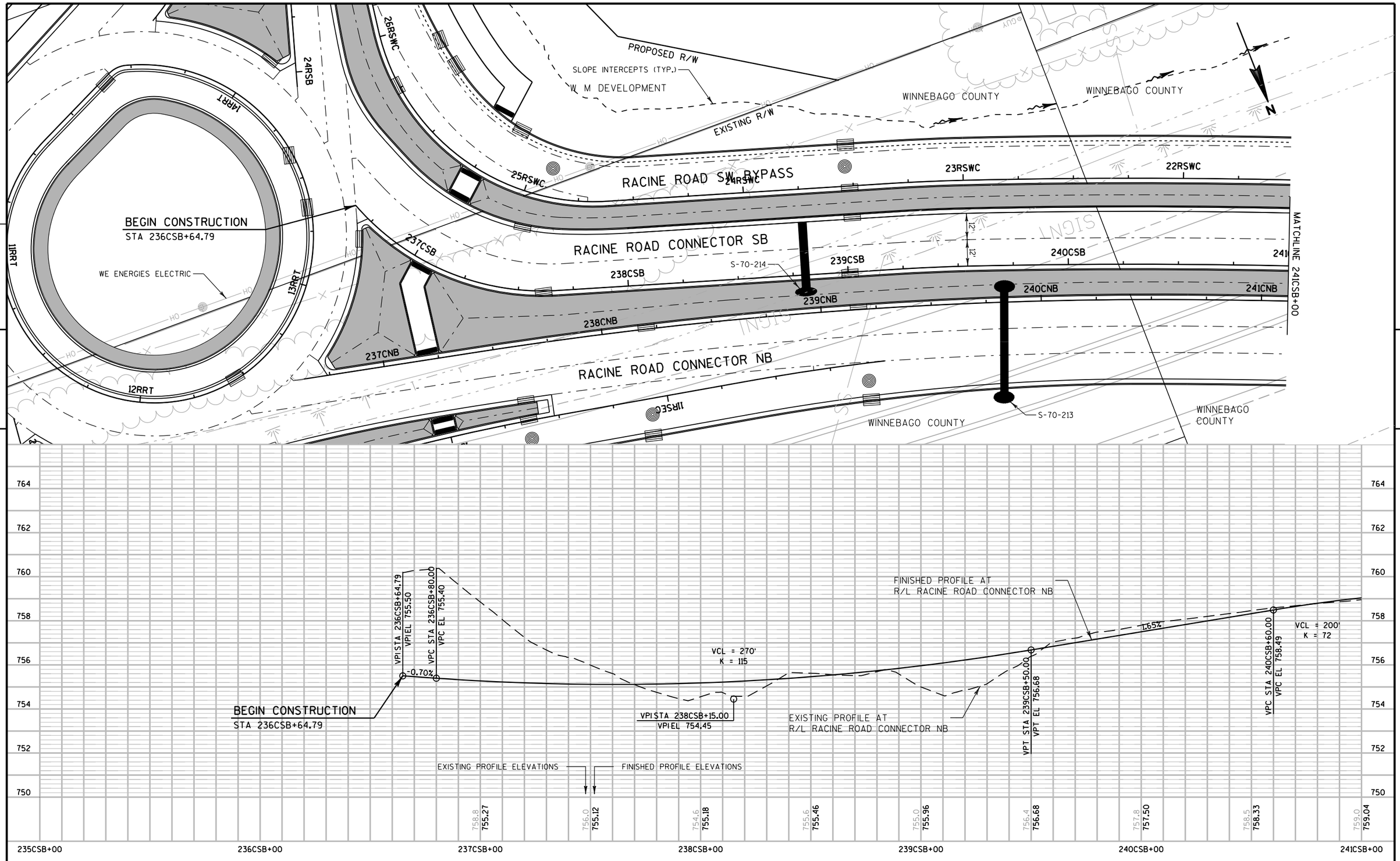
PROJECT NO: 1517-75-76	HWY: USH 10	COUNTY: WINNEBAGO	PLAN AND PROFILE - CTH P/ RACINE RD SB	SHEET 208	E



PROJECT NO: 1517-75-76	HWY: USH 10	COUNTY: WINNEBAGO	PLAN AND PROFILE - CONNECTOR ROAD NB	SHEET 209	E



PROJECT NO: 1517-75-76	HWY: USH 10	COUNTY: WINNEBAGO	PLAN AND PROFILE - CONNECTOR ROAD NB	SHEET 210	E



PROJECT NO: 1517-75-76	HWY: USH 10	COUNTY: WINNEBAGO	PLAN AND PROFILE - CONNECTOR ROAD SB	SHEET 211	E

SLOPE INTERCEPT (TYP)

WINNEBAGO COUNTY

TOWN OF MENASHA SANITARY SEWER

C M ST P RR

CITY OF MENASHA

MENASHA UTILITIES ELECTRIC

END CONSTRUCTION
STA 243CSB+82.99

RACINE ROAD SW BYPASS

RACINE ROAD CONNECTOR SB

RACINE ROAD CONNECTOR NB

16RSWC
17RSWC
18RSWC
19RSWC
20RSWC
21RSWC

244CSB
245CSB
246CSB
247CSB
243CSB
242CSB
241CSB

244CNB
245CNB
246CNB
247CNB
243CNB
242CNB

12'
12'

MATCHLINE 241CSB+00

WE ENERGIES ELECTRIC
ATC ELECTRIC
MENASHA UTILITIES ELECTRIC

WINNEBAGO COUNTY

C M ST P RR

CITY OF MENASHA

WINNEBAGO COUNTY

N

764
762
760
758
756
754
752
750

VPI STA 241CSB+60.00
VPI EL 760.14

VPT STA 242CSB+60.00
VPT EL 759.03

VPC STA 242CSB+82.50
VPC EL 758.78

END CONSTRUCTION
STA 243CSB+82.99

VPI STA 243CSB+98.00
VPI EL 758.55

VPI STA 244CSB+28.00
VPI EL 758.55

TO BE CONSTRUCTED WITH
CONTRACT 1517-75-75

VPI STA 245CSB+84.00
VPI EL 759.79

VPT STA 246CSB+99.00
VPT EL 758.84

-1.11%
0.56%
0.00%
0.79%
-0.82%

VCL = 200'
K = 72

VCL = 105'
K = 63

VCL = 230'
K = 142

VPI STA 245CSB+35.00
VPI EL 758.20

VPT STA 243CSB+87.50
VPT EL 758.49

VPC STA 244CSB+69.00
VPC EL 758.88

FINISHED PROFILE AT
R/L RACINE ROAD CONNECTOR NB

EXISTING PROFILE AT
R/L RACINE ROAD CONNECTOR NB

EXISTING PROFILE ELEVATIONS
FINISHED PROFILE ELEVATIONS

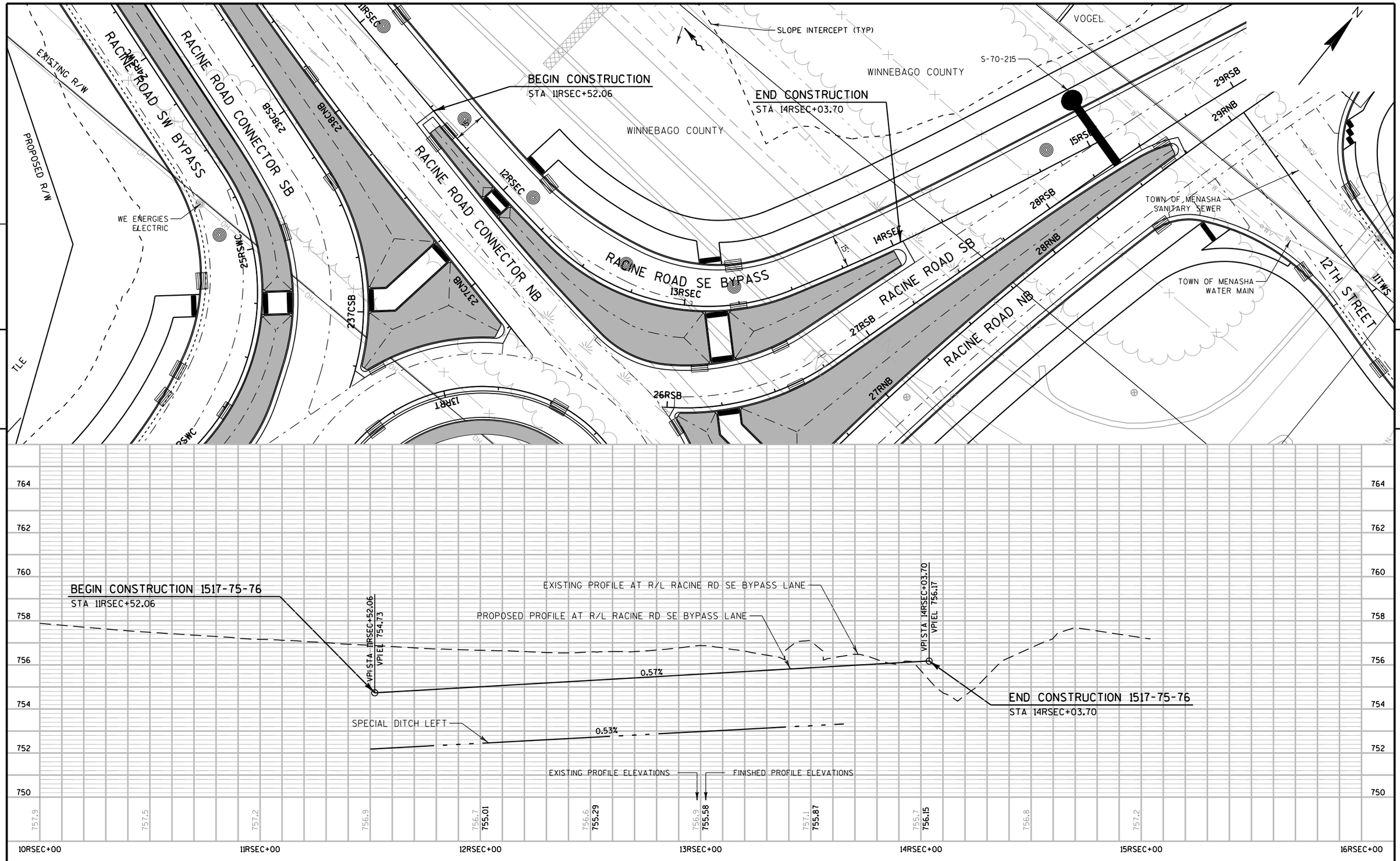
759.0 759.04
759.5 759.42
759.4 759.45
758.3 759.14
756.3 758.61
755.6 758.39
757.6
756.7
762.0
758.2
751.5
763.6
779.0

241CSB+00
242CSB+00
243CSB+00
244CSB+00
245CSB+00
246CSB+00
247CSB+00

PROJECT NO: 1517-75-76	HWY: USH 10	COUNTY: WINNEBAGO	PLAN AND PROFILE - CONNECTOR ROAD SB	SHEET E

FILE NAME : \\milw00\ingrproj\56537\1517-75-76\t1\cds\050110_pp.dgn PLOT DATE : 1/18/2016 PLOT BY : grosemeyer PLOT NAME : PLOT SCALE : 40:1

WISDOT/CADDS SHEET 40



PROJECT NO: 1517-75-76	HWY: USH 10	COUNTY: WINNEBAGO	PLAN AND PROFILE - CTH P/ RACINE RD SE BYPASS LANE	SHEET 213 E

FILE NAME : \\milw00\ingrproj\56537\1517-75-76\t1\cds\050111_pp.dgn PLOT DATE : 1/18/2016 PLOT BY : grosemeyer PLOT NAME : PLOT SCALE : 40:1

WISDOT/CADDS SHEET 40

CITY OF MENASHA

C M ST P RR

ATC ELECTRIC

TOWN OF MENASHA SANITARY SEWER

WINNEBAGO COUNTY

WE ENERGIES ELECTRIC

RACINE ROAD CONNECTOR NB

S-70-213

24CNB

24ICNB

24CSB

24ICSB

24CNB

24CNB

24ICNB

24CSB

24ICSB

24CSB

24CSB

RACINE ROAD CONNECTOR SB

MATCHLINE 23RSWC+00

17RSWC

18RSWC

19RSWC

20RSWC

RACINE ROAD SW BYPASS

15'

2'

21RSWC

22RSWC

23RSWC

MENASHA UTILITIES ELECTRIC

CITY OF MENASHA

C M ST P RR

WINNEBAGO COUNTY

SLOPE INTERCEPT (TYP)

BEGIN CONSTRUCTION
STA 18RSWC+63.37

5

5

PROPOSED PROFILE AT R/L RACINE RD SW BYPASS LANE

BEGIN CONSTRUCTION 1517-75-76
STA 18RSWC+63.37

VPI STA 17RSWC+47.00
VPI EL 758.11

VCL = 126'
K = 50

VPI STA 18RSWC+10.00
VPT EL 758.46

0.55%

VPI STA 18RSWC+18.00
VPI EL 758.50

-0.00%

VPC STA 18RSWC+52.50
VPC EL 758.50

VPI STA 19RSWC+05.00
VPI EL 758.50

VCL = 105'
K = 155

VPT STA 19RSWC+57.50
VPT EL 758.85

0.68%

VPC STA 19RSWC+70.00
VPC EL 758.94

VPI STA 20RSWC+90.00
VPI EL 759.75

VCL = 240'
K = 110

VPT STA 22RSWC+10.00
VPT EL 757.93

-1.52%

TO BE CONSTRUCTED WITH
PROJECT 1517-75-75

EXISTING PROFILE AT R/L RACINE RD SW BYPASS LANE

1.69%

SPECIAL DITCH RIGHT

EXISTING PROFILE ELEVATIONS

FINISHED PROFILE ELEVATIONS

764 762 760 758 756 754 752 750

757.8	760.6	756.6	757.4	756.1 758.57	758.6 758.81	759.0 759.10
759.3 759.19	758.7 759.05	758.1 758.68	755.8 758.08	753.7 757.33	753.8 756.57	

17RSWC+00 18RSWC+00 19RSWC+00 20RSWC+00 21RSWC+00 22RSWC+00 23RSWC+00

PROJECT NO: 1517-75-76	HWY: USH 10	COUNTY: WINNEBAGO	PLAN AND PROFILE - CTH P/ RACINE RD SW BYPASS LANE	SHEET E

FILE NAME : \\milw00\ingrproj\56537\1517-75-76\t1\cds\050112_pp.dgn PLOT DATE : 1/18/2016 PLOT BY : grosemeyer PLOT NAME : PLOT SCALE : 40:1

WISDOT/CADDS SHEET 40

RACINE ROAD CONNECTOR NB
RACINE ROAD CONNECTOR SB
RACINE ROAD SW BYPASS
RACINE ROAD SB
RACINE ROAD NB
238CNB
238CSB
239CNB
239CSB
24RSB
23RNB
23RSB
22RNB
22RSB
28RSWC
27RSWC
26RSWC
25RSWC
24RSWC
23RSWC+00
S-70-214
S-70-216
WE ENERGIES ELECTRIC
PROPOSED R/W
EXISTING R/W
SLOPE INTERCEPT (TYP)
TLE
15'
2'
MATCHLINE 23RSWC+00
WINNEBAGO COUNTY
W M DEVELOPMENT
W M DEVELOPMENT
ATT CABLE
TIME WARNER CABLE
MENASHA UTILITIES ELECTRIC
COLLINS
N
END CONSTRUCTION
STA 26RSWC+99.48
5
5

764
762
760
758
756
754
752
750

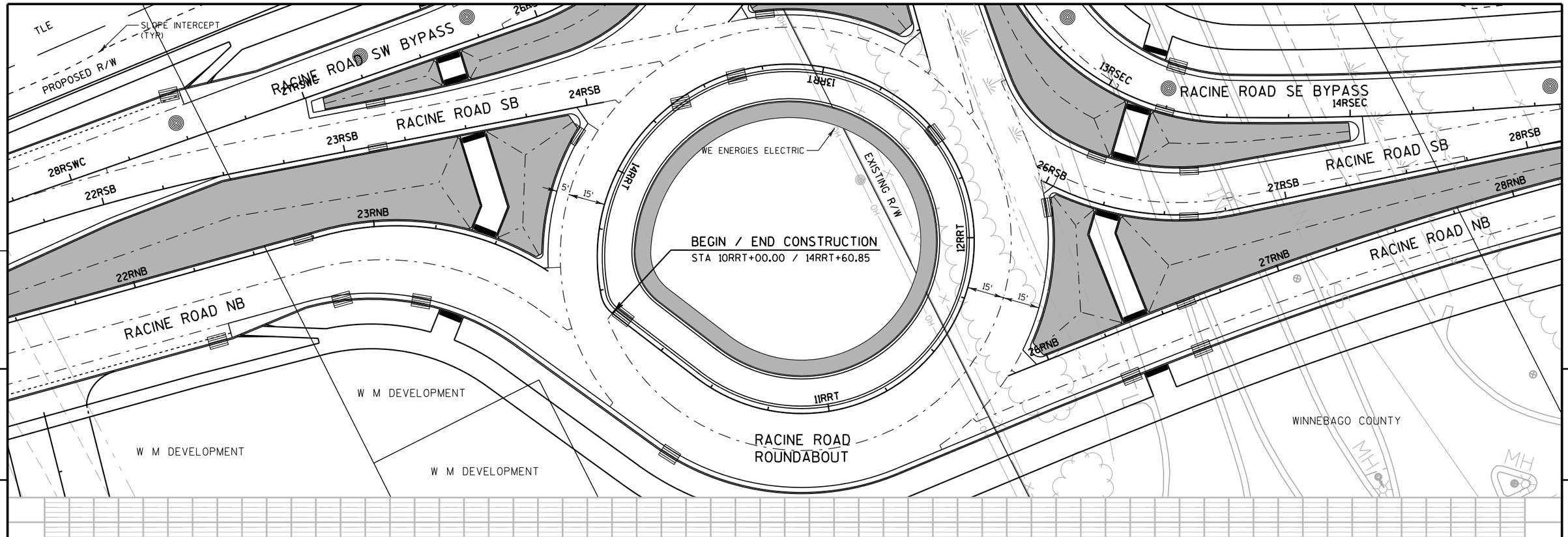
VPC STA 23RSWC+50.00
VPC EL 755.81
-1.52%
VCL = 300'
K = 149
VPI STA 25RSWC+00.00
VPI EL 753.54
VPT STA 26RSWC+50.00
VPT EL 754.29
0.50%
VPI STA 26RSWC+99.49
VPI EL 754.54
END CONSTRUCTION 1517-75-76
STA 26RSWC+99.49
EXISTING PROFILE ELEVATIONS
FINISHED PROFILE ELEVATIONS

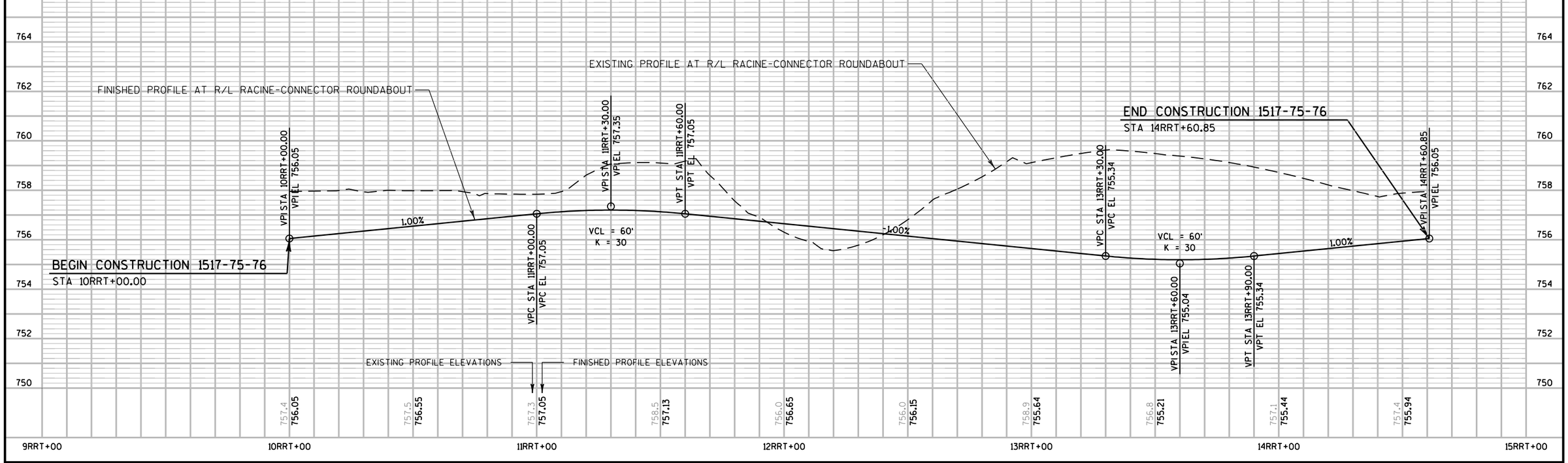
753.8 756.57
755.8 755.81
756.9 755.14
757.2 754.63
758.6 754.29
759.9 754.12
759.5 754.12
759.3 754.29
759.3
758.9
758.5

23RSWC+00
24RSWC+00
25RSWC+00
26RSWC+00
27RSWC+00
28RSWC+00
29RSWC+00

PROJECT NO: 1517-75-76	HWY: USH 10	COUNTY: WINNEBAGO	PLAN AND PROFILE - CTH P/ RACINE RD SW BYPASS LANE	SHEET 215 E

FILE NAME : \\milw00\ingrproj\56537\1517-75-76\t1\cds\050113_pp.dgn
PLOT DATE : 1/18/2016
PLOT BY : grosemeyer
PLOT NAME :
PLOT SCALE : 40:1





PROJECT NO: 1517-75-76	HWY: USH 10	COUNTY: WINNEBAGO	PLAN AND PROFILE - RACINE RD-CONNECTOR ROUNDABOUT	SHEET 216	E

BEGIN CONSTRUCTION
STA 10TWS+17.00

END CONSTRUCTION
STA 13TWS+14.34

N

TOWN OF MENASHA SANITARY SEWER

CINDA CORPORATION

TOWN OF MENASHA SANITARY SEWER

29RSB

29RNB

11TWS

12TWS

13TWS

12TH STREET

TOWN OF MENASHA WATER MAIN

MENASHA UTILITIES ELECTRIC

15RSB

RACINE ROAD SB

28RSB

28RNB

RACINE ROAD NB

TLE

SLOPE INTERCEPT (TYP)

MENASHA UTILITIES ELECTRIC

TDS CABLE

MENASHA UTILITIES ELECTRIC

TOWN OF MENASHA WATER MAIN

MENASHA SCHOOL DISTRICT

ATHLETIC FIELD

14RSEC

WE ENERGIES ELECTRIC

TOWN OF MENASHA SANITARY SEWER

5

5

EXISTING PROFILE AT R/L 12TH STREET

VPI STA 10TWS+17.00
VPI EL 756.67

VPC STA 10TWS+20.00
VPC EL 756.64

VPRC STA 11TWS+30.00
VPRC EL 757.13

VPI STA 11TWS+90.00
VPI EL 758.27

VPT STA 12TWS+50.00
VPT EL 758.72

VPI STA 13TWS+14.34
VPI EL 759.20

0.75%

VCL = 110'
K = 38

VCL = 120'
K = 105

BEGIN CONSTRUCTION 1517-75-76
STA 10TWS+17.00

END CONSTRUCTION 1517-75-76
STA 13TWS+14.34

PROPOSED PROFILE AT R/L 12TH STREET

VPI STA 10TWS+75.00
VPI EL 756.09

EXISTING PROFILE ELEVATIONS

FINISHED PROFILE ELEVATIONS

764
762
760
758
756
754
752
750

757.3
758.0 756.46
757.6 756.68
757.8 757.49
758.6 758.23
759.1 758.72
759.2 759.10
759.3

8TWS+00
9TWS+00
10TWS+00
11TWS+00
12TWS+00
13TWS+00
14TWS+00

PROJECT NO: 1517-75-76	HWY: USH 10	COUNTY: WINNEBAGO	PLAN AND PROFILE - 12TH STREET	SHEET 217	E

TOWN OF MENASHA
MEADOWS DEVELOPM GRP LLC
TOWN OF MENASHA
MEADOWS DEVELOPM GRP LLC
TOWN OF MENASHA
VANZEELAND OIL COMPANY
BENNER
ATT CABLE
WE ENERGIES GAS
TOWN OF MENASHA SANITARY SEWER
BEGIN CONSTRUCTION
STA 13NS+31.00
SLOPE INTERCEPT (TYP)
MENASHA UTILITIES ELECTRIC
WE ENERGIES GAS
TIME WARNER CABLE
MENASHA UTILITIES ELECTRIC
WE ENERGIES GAS
TLE
EXISTING R/W
11NS
12NS
13NS
14NS
15
9TH STREET
CAUTION
MATCHLINE 14NS+00
N
WE ENERGIES GAS
MENASHA UTILITIES WATER MAIN
TOWN OF MENASHA SANITARY SEWER
MENASHA UTILITIES WATER MAIN
MENASHA UTILITIES WATER MAIN
EXISTING R/W
MENASHA UTILITIES ELECTRIC
ATT CABLE
WE ENERGIES GAS
TLE
TIME WARNER CABLE
TIME WARNER CABLE
WE ENERGIES GAS
5
DUNBAR
SCHURER
BADGER DEVELOPMENT LLC,
BADGER DEVELOPMENT LLC,
CITY OF MENASHA
SOKOLOWFSKI
MC GEE
MC GEE
BONGEAN
5

764
762
760
758
756
754
752
750

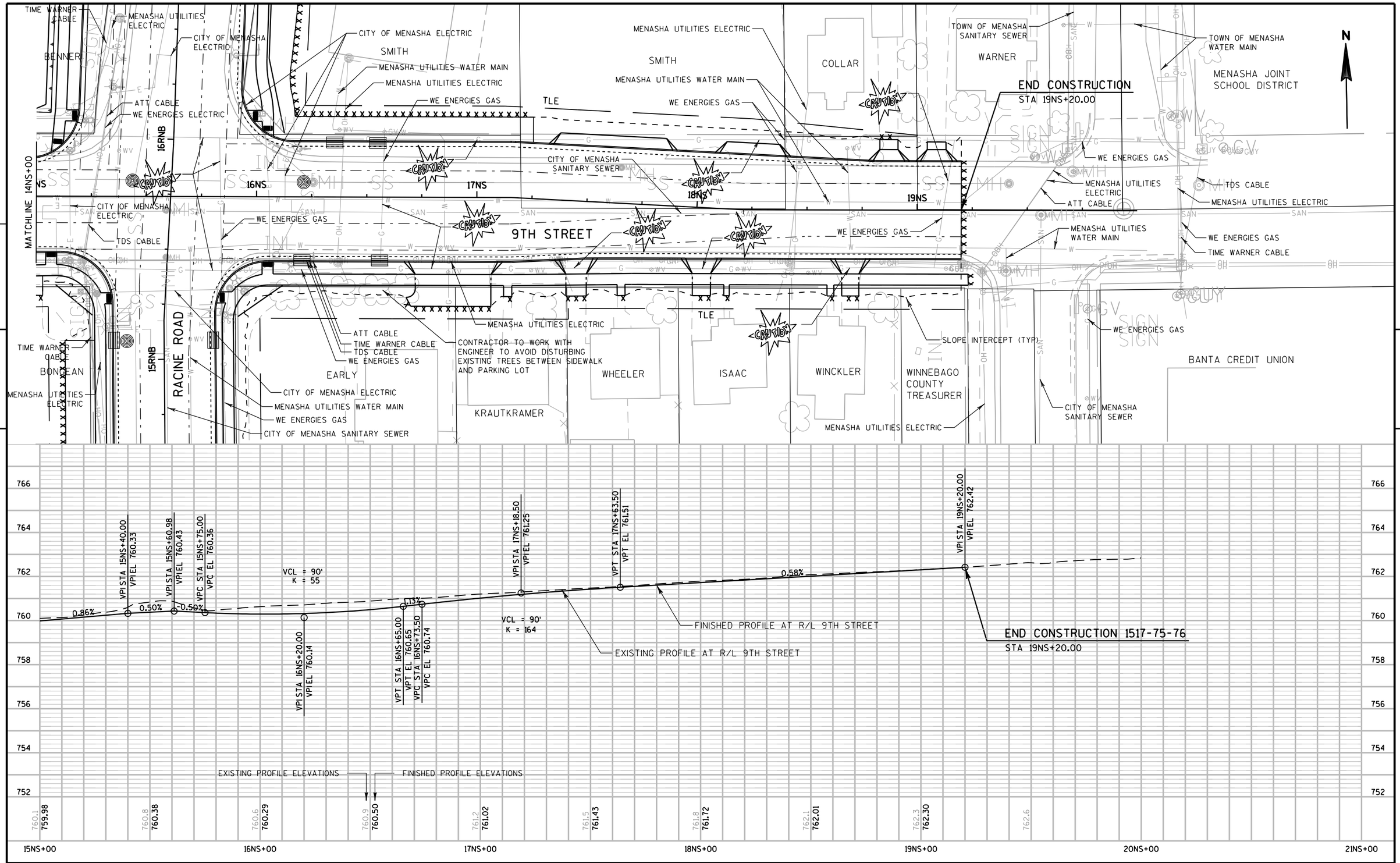
FINISHED PROFILE AT R/L 9TH STREET
VPI STA 13NS+31.00
VPI EL 758.54
0.86%
BEGIN CONSTRUCTION 1517-75-76
STA 13NS+31.00
EXISTING PROFILE AT R/L 9TH STREET
EXISTING PROFILE ELEVATIONS
FINISHED PROFILE ELEVATIONS

757.0	757.0	757.1	757.2	757.5
758.0	758.4	758.8	759.2	759.7
		758.70	759.13	759.56

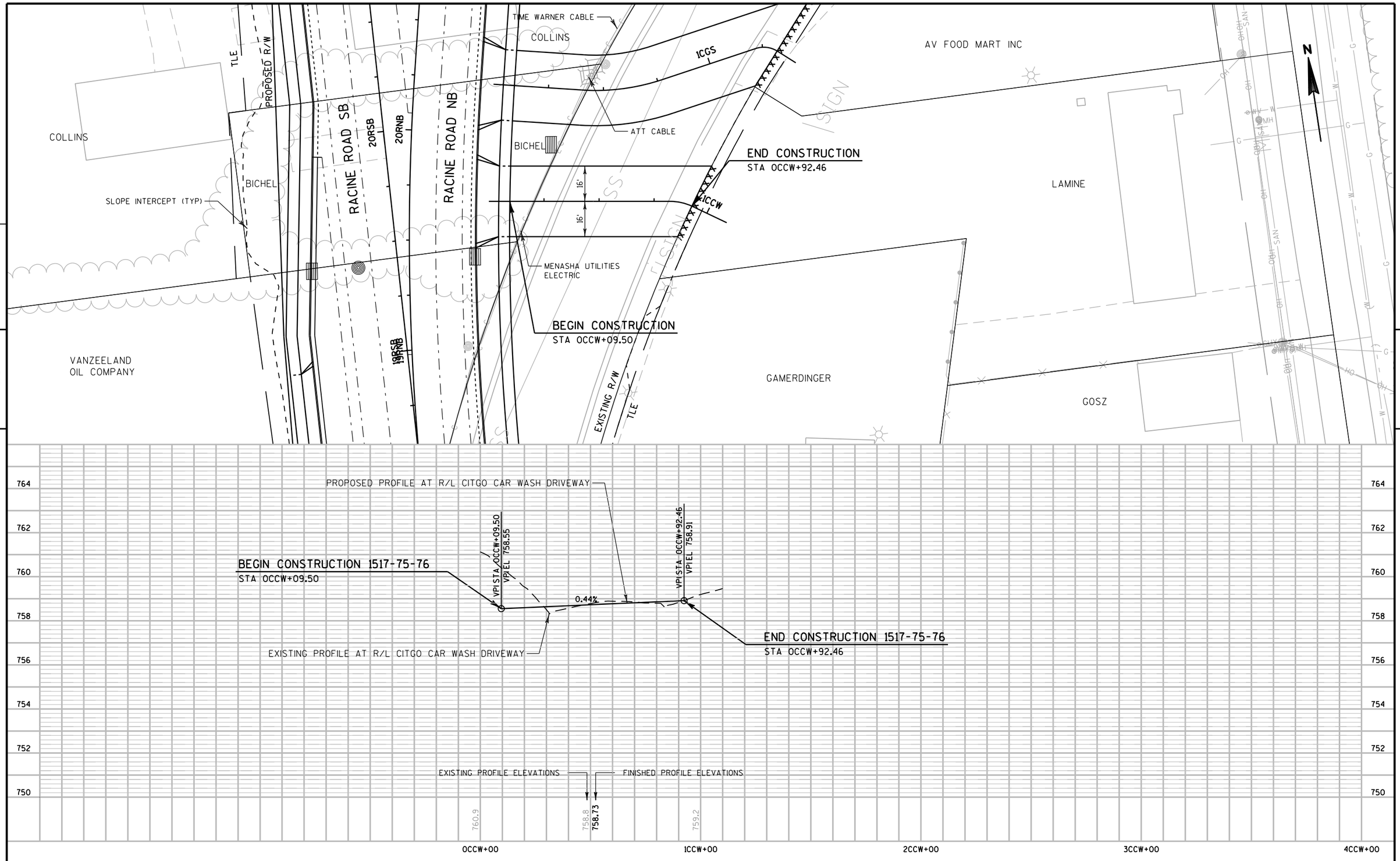
760.1 759.98

9NS+00 10NS+00 11NS+00 12NS+00 13NS+00 14NS+00 15NS+00

PROJECT NO: 1517-75-76	HWY: USH 10	COUNTY: WINNEBAGO	PLAN AND PROFILE - 9TH STREET	SHEET 218	E



PROJECT NO: 1517-75-76	HWY: USH 10	COUNTY: WINNEBAGO	PLAN AND PROFILE - 9TH STREET	SHEET 219	E



PROJECT NO: 1517-75-76	HWY: USH 10	COUNTY: WINNEBAGO	PLAN AND PROFILE - CITGO CAR WASH DRIVEWAY	SHEET 220	E

FILE NAME : \\milw00\ingrproj\56537\1517-75-76\t1\cds\050118_pp.dgn PLOT DATE : 1/18/2016 PLOT BY : grosemeyer PLOT NAME : PLOT SCALE : 40:1

WISDOT/CADDS SHEET 40

W M DEVELOPMENT

S-70-216

2IRSB

2IRNB

COLLINS

TIME WARNER CABLE

BEGIN CONSTRUCTION
STA 0CGS+09.50

EXISTING R/W

TOWN OF MENASHA SANITARY SEWER

AV FOOD MART INC

TDS CABLE

WE ENERGIES ELECTRIC

MENASHA UTILITIES ELECTRIC

N

TLE

PROPOSED R/W

COLLINS

RACINE ROAD SB

20RSB

20RNB

RACINE ROAD NB

BICHEL

1CGS

16'

16'

END CONSTRUCTION
STA 1CGS+32.05

ATT CABLE

BICHEL

SLOPE INTERCEPT (TYP)

1CCW

LAMINE

MENASHA UTILITIES ELECTRIC

GAMERDINGER

PROPOSED PROFILE AT R/L CITGO GAS STATION DRIVEWAY

VPI STA 0CGS+09.50
VPI EL 757.93

VPI STA 1CGS+32.05
VPI EL 759.68

BEGIN CONSTRUCTION 1517-75-76
STA 0CGS+09.50

1.43%

END CONSTRUCTION 1517-75-76
STA 1CGS+32.05

EXISTING PROFILE AT R/L CITGO GAS STATION DRIVEWAY

EXISTING PROFILE ELEVATIONS

FINISHED PROFILE ELEVATIONS

760.9

758.7
758.51

758.7
759.22

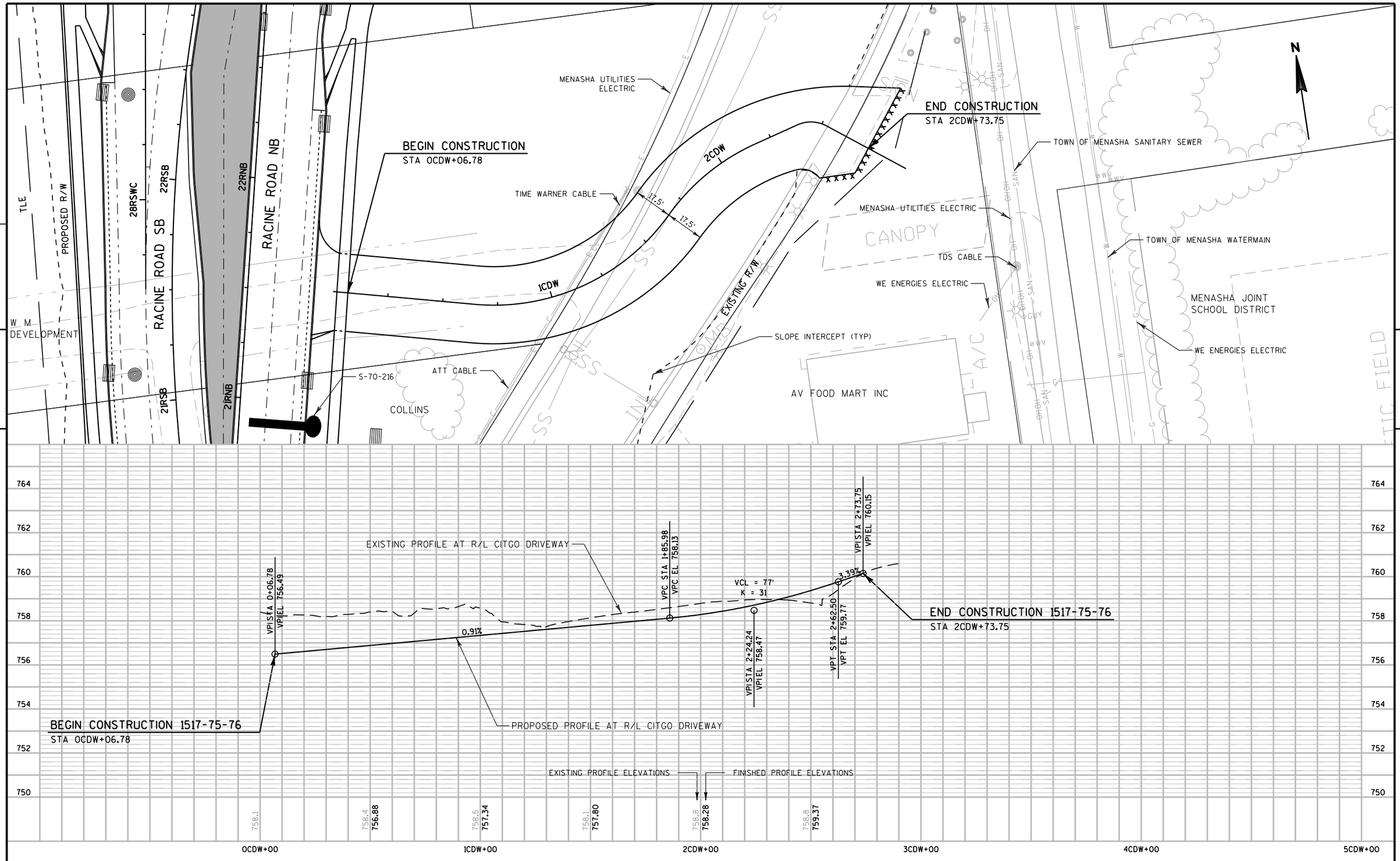
764 762 760 758 756 754 752 750

0CGS+00 1CGS+00 2CGS+00 3CGS+00 4CGS+00

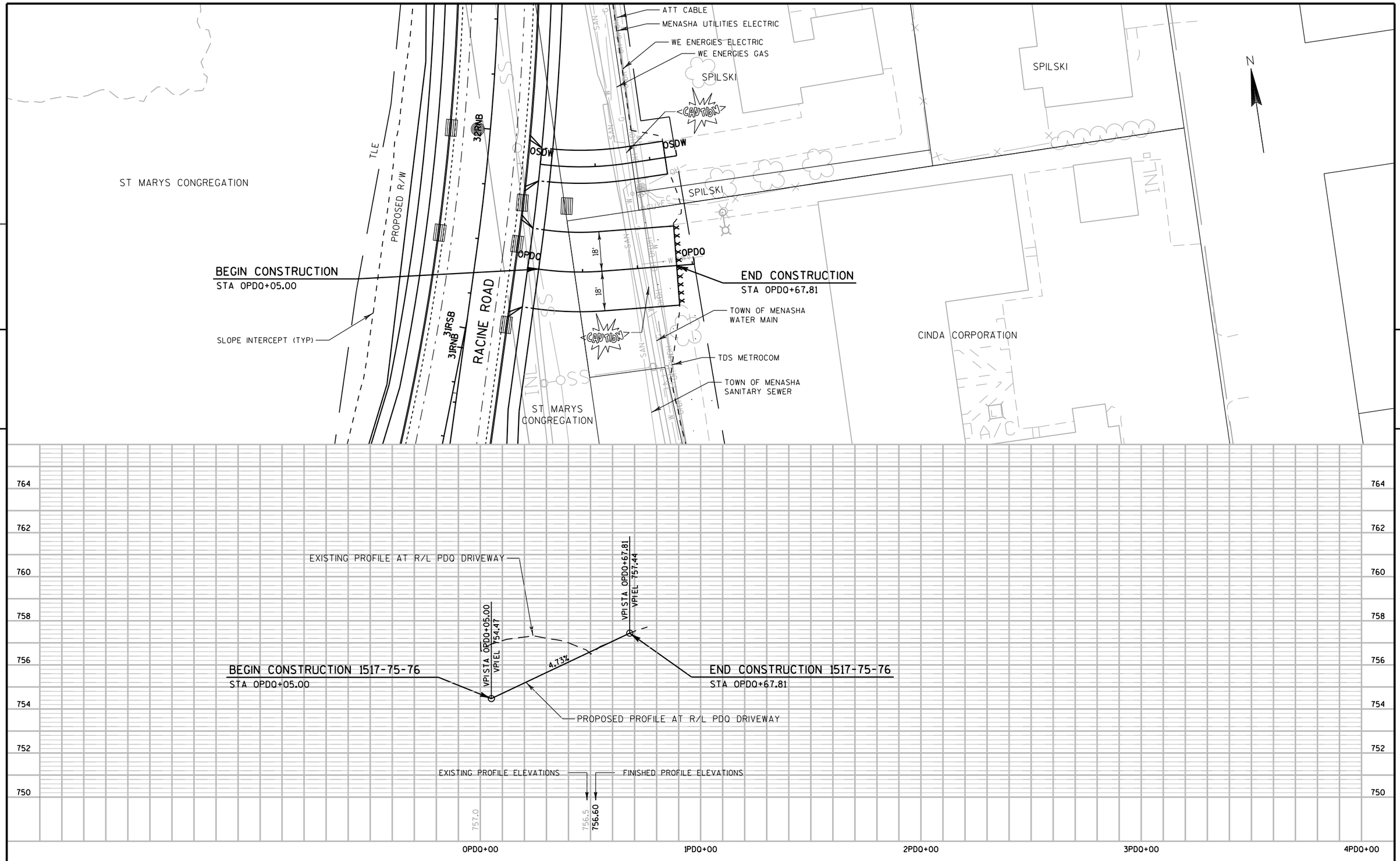
PROJECT NO: 1517-75-76	HWY: USH 10	COUNTY: WINNEBAGO	PLAN AND PROFILE - CITGO GAS STATION DRIVEWAY	SHEET 221	E

FILE NAME : \\milw00\ingrproj\56537\1517-75-76\t1\cds\050119_pp.dgn PLOT DATE : 1/18/2016 PLOT BY : grosemeyer PLOT NAME : PLOT SCALE : 40:1

WISDOT/CADDS SHEET 40



PROJECT NO: 1517-75-76	HWY: USH 10	COUNTY: WINNEBAGO	PLAN AND PROFILE - CITGO DRIVEWAY	SHEET 222	E



PROJECT NO: 1517-75-76	HWY: USH 10	COUNTY: WINNEBAGO	PLAN AND PROFILE - PDQ DRIVEWAY	SHEET 223	E

BEGIN CONSTRUCTION
STA 0SDW+05.00

END CONSTRUCTION
STA 0SDW+57.00

ATT CABLE
MENASHA UTILITIES ELECTRIC
WE ENERGIES ELECTRIC
WE ENERGIES GAS

SPILSKI
SPILSKI
SPILSKI

CAUTION
CAUTION

ST MARYS CONGREGATION

TLE
PROPOSED R/W

SLOPE INTERCEPT (TYP)

RACINE ROAD

31RNB
31RSB
31RNB

0SDW
0SDW
7.5
7.5
0PDO
0PDO

TOWN OF MENASHA
WATER MAIN

TDS METROCOM

TOWN OF MENASHA
SANITARY SEWER

ST MARYS
CONGREGATION

CINDA CORPORATION

A/C

N

5

5

764
762
760
758
756
754
752
750

EXISTING PROFILE AT R/L SPILSKI DRIVEWAY

VPI STA 0SDW+57.00
VPI EL 757.50

END CONSTRUCTION 1517-75-76
STA 0SDW+57.00

VPI STA 0SDW+05.00
VPI EL 754.57

5.63%

BEGIN CONSTRUCTION 1517-75-76
STA 0SDW+05.00

PROPOSED PROFILE AT R/L SPILSKI DRIVEWAY

EXISTING PROFILE ELEVATIONS
FINISHED PROFILE ELEVATIONS

757.3
757.4
757.11

0SDW+00
1SDW+00
2SDW+00
3SDW+00
4SDW+00

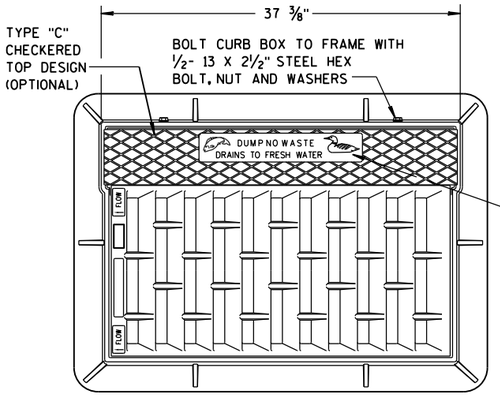
PROJECT NO: 1517-75-76	HWY: USH 10	COUNTY: WINNEBAGO	PLAN AND PROFILE - SPILSKI DRIVEWAY	SHEET 224	E

FILE NAME : \\milw00\ingrproj\56537\1517-75-76\t1\cds\050122_pp.dgn
PLOT DATE : 1/18/2016
PLOT BY : grosemeyer
PLOT NAME :
PLOT SCALE : 40:1

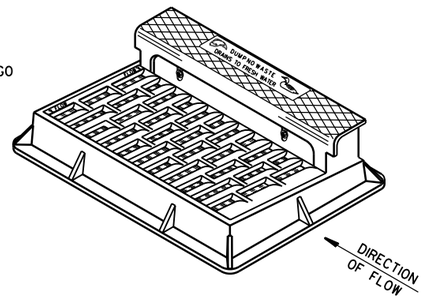
Standard Detail Drawing List

08A05-19A	INLET COVERS TYPE A, H, A-S, H-S & Z
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
08B09-01	MANHOLES 3-FT, 4-FT, 5-FT, 6-FT, 7-FT AND 8-FT DIAMETER
08C06-01	INLETS 3-FT AND 4-FT DIAMETER
08C07-01	INLETS 2X2-FT, 2X2.5-FT, 2X3-FT AND 2.5X3-FT
08C08-01	INLETS MEDIAN 1 AND 2 GRATE
08D01-18	CONCRETE CURB, CONCRETE CURB AND GUTTER AND TIES
08D05-16A	CURB RAMPS TYPES 1 AND 1-A
08D05-16B	CURB RAMPS TYPES 2 AND 3
08D05-16C	CURB RAMPS TYPES 4A AND 4A1
08D05-16D	CURB RAMPS TYPE 4B AND 4B1
08D05-16E	CURB RAMPS TYPES 5, 6, 7A, 7B & 8
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
09C02-07	CONCRETE BASES, TYPES 1, 2, 5, & 6
09C03-04	TRANSFORMER/PEDESTAL BASES
09C05-09	CONCRETE CONTROL CABINET BASES
09C14-02	CONCRETE CONTROL CABINET BASE, TYPE L
09D01-05	CABINET SERVICE INSTALLATION (METER BREAKER PEDESTAL)
09E01-14D	POLE MOUNTINGS FOR LIGHTING UNITS, TYPE 5 (30 FEET)
09E01-14G	HARDWARE DETAILS FOR POLE MOUNTINGS
09E03-05	NON-FREEWAY LIGHTING UNIT POLE WIRING
09E06-05	TRAFFIC SIGNAL STANDARD POLY BRACKET MOUNTINGS (TYPICAL) 13 FT. OR 15 FT.
09E07-05	TRAFFIC SIGNAL STANDARD PEDESTRIAN AND FLASHER TYPICAL MOUNTING DETAILS
09F04-04	LOOP DETECTOR INSTALLED IN NEW CONCRETE PAVEMENT ROUND CSCP PULLBOX
10A01-03	ELECTRICAL HANDHOLE WIRING
10A02-03	IDENTIFICATION PLAQUES LIGHT POLES
11B02-02	CONCRETE MEDIAN NOSE
12A04-03	STRUCTURE IDENTIFICATION PLAQUES, RAMP GATES, SIGN BRIDGES & OVERHEAD SIGN SUPPORTS & TRAFFIC SIGNALS
13C01-18	CONCRETE PAVEMENT LONGITUDINAL JOINTS AND TIES
13C18-03A	CONCRETE PAVEMENT JOINTING
13C18-03B	CONCRETE PAVEMENT STEEL REINFORCEMENT
13C18-03C	CONCRETE PAVEMENT JOINT TIES
13C18-03D	CONCRETE PAVEMENT JOINTING AT UTILITY FIXTURES
13C18-03E	CONCRETE PAVEMENT JOINTING AND STEEL REINFORCEMENT IN ROUNDABOUTS
14A02-01	TREE PLANTING DETAIL
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
15C02-05A	BARRICADES AND SIGNS FOR MAINLINE CLOSURES
15C02-05B	BARRICADES AND SIGNS FOR MAINLINE CLOSURES
15C03-02	BARRICADES AND SIGNS FOR SIDEROAD CLOSURES
15C07-12A	PAVEMENT MARKING SYMBOLS
15C07-12B	PAVEMENT MARKING WORDS
15C07-12C	PAVEMENT MARKING ARROWS
15C07-12D	ROUNDABOUT ARROWS
15C08-16E	PAVEMENT MARKING (LEFT TURN LANE)
15C08-16F	PAVEMENT MARKING (ISLANDS)
15C18-03	MEDIAN ISLAND MARKING
15C29-03A	BICYCLE LANE MARKING
15C29-03C	URBAN BICYCLE LANE MARKING
15C29-03D	URBAN BICYCLE LANE MARKING
15C29-03E	PAVEMENT MARKING FOR BIKE LANES
15C33-01	STOP LINE AND CROSSWALK PAVEMENT MARKING
15D16-03	TRAFFIC CONTROL, EXIT RAMP CLOSURE

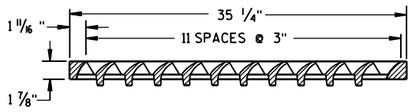
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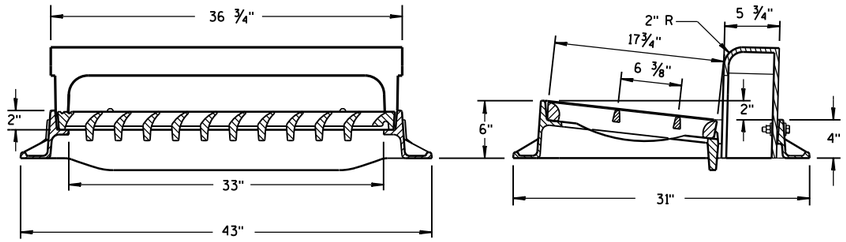


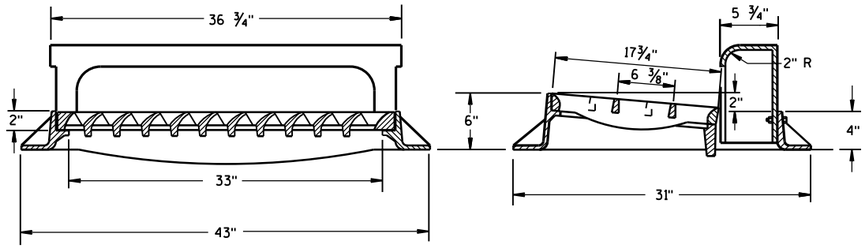
NOTE:
GRATE IS REVERSIBLE.



NOTE: CURB BOX HEIGHT ADJUSTABLE 6" TO 9"

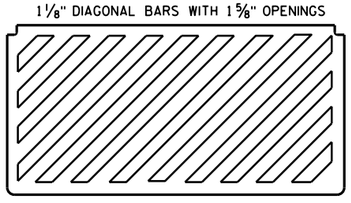






TYPE "H"

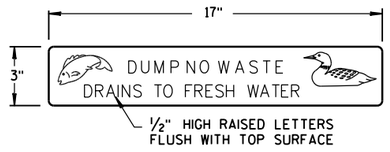
NOTE: EITHER CASTING IS ACCEPTABLE



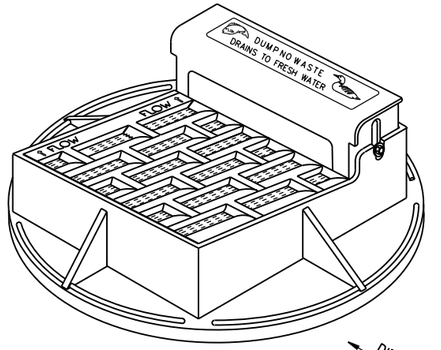
SPECIAL GRATE FOR TYPE "H" COVER

(MEASURES 35 1/4" X 17 3/4" X 2")

(NOTED AS TYPE H-S ON DRAINAGE TABLE)



LOGO DETAIL



NOTE: CURB BOX ADJUSTABLE 4" TO 9"

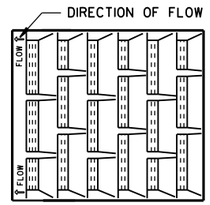
NOTE:
GRATE IS REVERSIBLE.

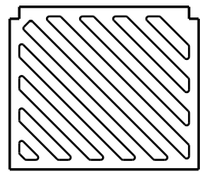
GENERAL NOTES

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.

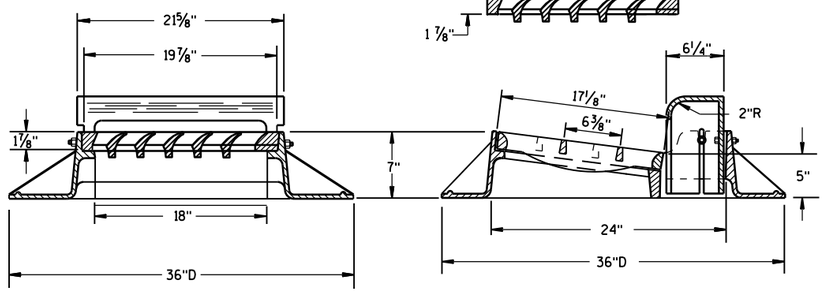




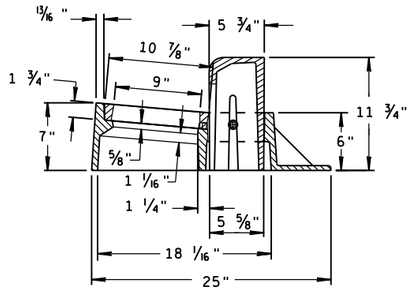
SPECIAL GRATE FOR TYPE "A" COVER

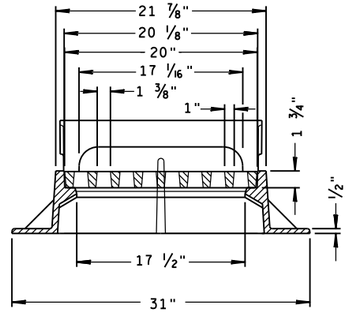
(MEASURES 19 3/4" X 17" X 1 7/8")

(NOTED AS TYPE A-S ON DRAINAGE TABLE)

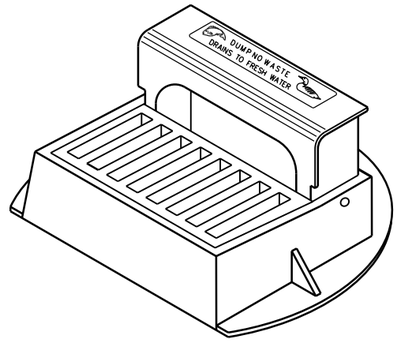


TYPE "A"





TYPE "Z"



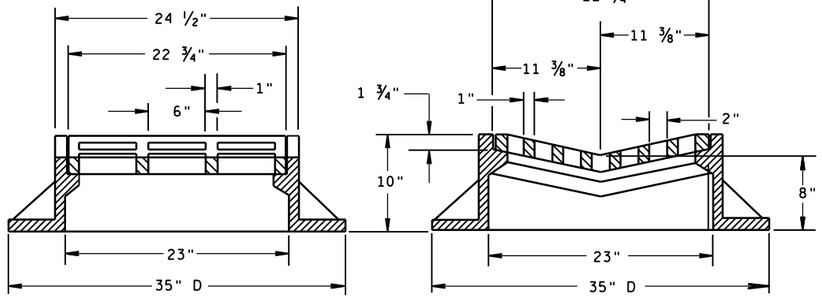
INLET COVERS
TYPE A, H, A-S, H-S & Z

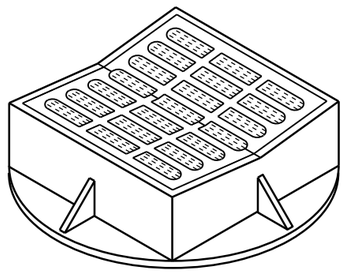
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
11-27-13 — DATE
/S/ Jerry H. Zogg — ROADWAY STANDARDS ENGINEER
FHWA

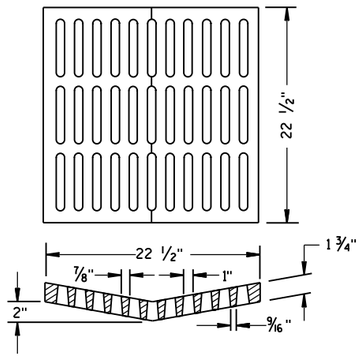
6

S.D.D. 8 A 5-19a



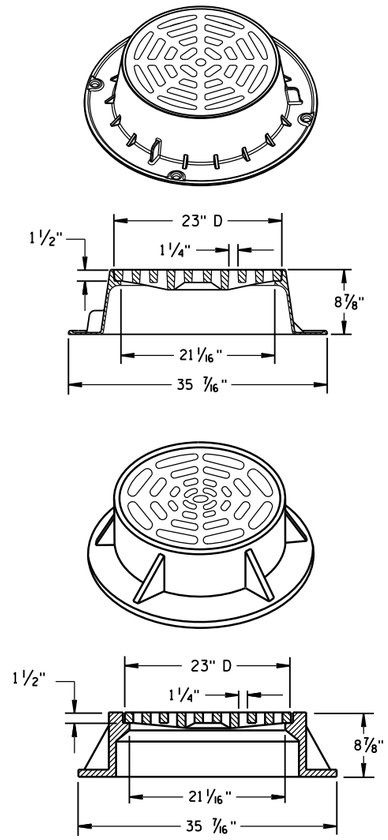


TYPE "B"



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"

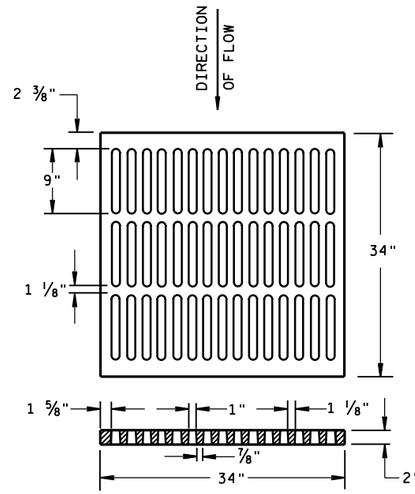
NOTE: EITHER CASTING IS ACCEPTABLE

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.

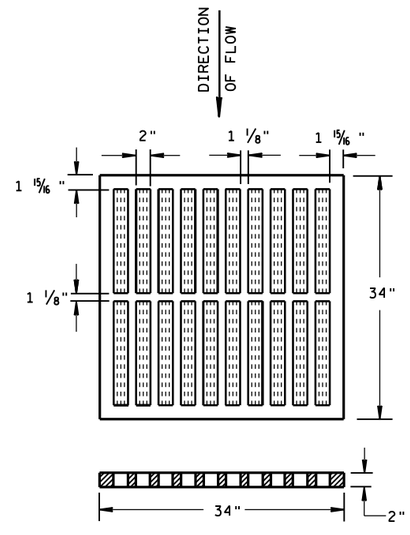
DETAIL DRAWINGS FOR PROPOSED ALTERNATE DESIGNS FOR CATCH BASIN, MANHOLE AND INLET COVERS SHALL BE SUBMITTED TO THE ENGINEER FOR APPROVAL PROVIDING THAT SUCH ALTERNATE DESIGNS MAKE PROVISION FOR EQUIVALENT CAPACITY AND STRENGTH.

ROUND FRAMES AND COVERS SHALL HAVE CONTINUOUSLY MACHINED BEARING SURFACES TO PREVENT ROCKING AND RATTLING.



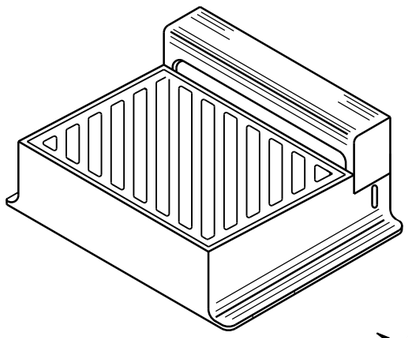
ALTERNATIVE TYPE "MS"

USE WHERE PEDESTRIAN OR BICYCLE TRAFFIC IS PERMITTED
NOTED AS TYPE MS-A ON THE DRAINAGE TABLE

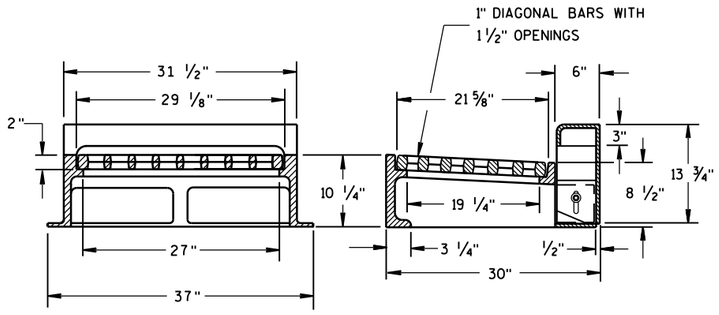


TYPE "MS"

USE ON FREEWAYS AND EXPRESSWAYS
NOTED AS TYPE MS ON DRAINAGE TABLE



DIAGONAL SLOTS, SHALL BE ORIENTED TO THE DIRECTION OF FLOW AS ILLUSTRATED. GRATES ARE MANUFACTURED TO BE REVERSIBLE.



NOTE: CURB BOX HEIGHT ADJUSTABLE 6" TO 9"

TYPE "WM"

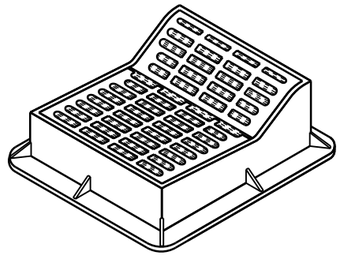
INLET COVERS
TYPE B, B-A, C, MS, MS-A, & WM

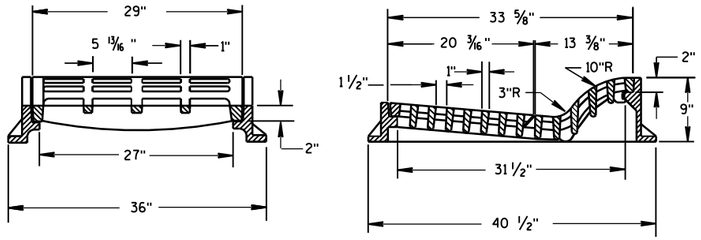
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
11/27/2013 — DATE
/S/ Jerry H. Zogg — ROADWAY STANDARDS DEVELOPMENT ENGINEER
FHWA

6

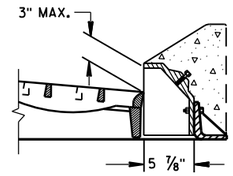
S.D.D. 8 A 5-19b





TYPE "F"

USE WITH TYPES A & D CONCRETE CURB & GUTTER, 36 INCH.



ALTERNATIVE CURB BOX FOR TYPE "HM" COVER

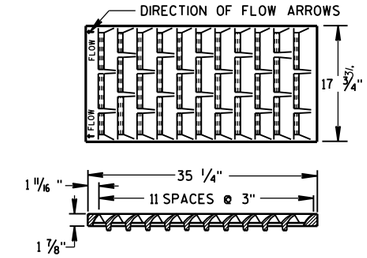
USE WITH TYPES G & J CONCRETE CURB & GUTTER, 30 INCH
NOTED AS TYPE HM-GJ ON DRAINAGE TABLE

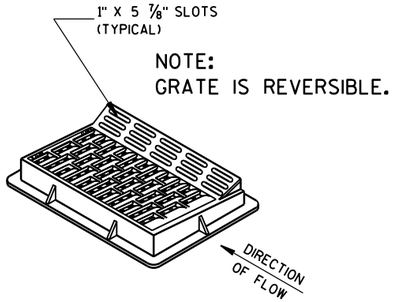
NOTE:
SPECIAL GRATE FOR THE
TYPE "H" COVER MAY ALSO BE
USED FOR THE TYPE "HM-GJ" COVER
NOTED AS TYPE HM-GJ-S ON DRAINAGE TABLE

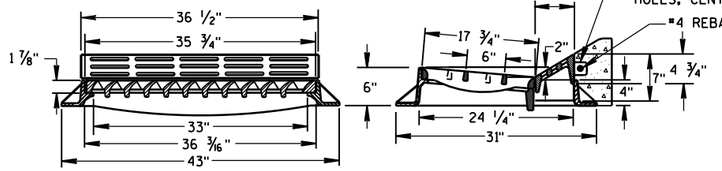
GENERAL NOTES

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.



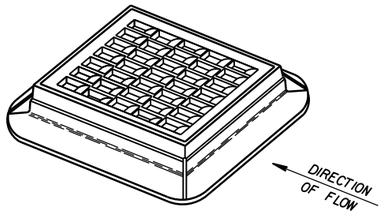


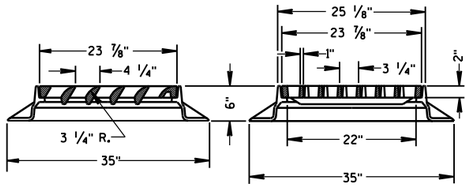


TYPE "HM"

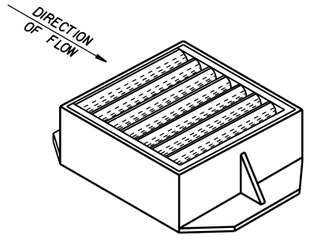
USE WITH TYPES A & D CONCRETE CURB & GUTTER, 36 INCH.

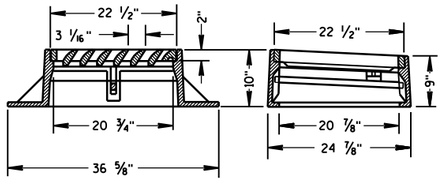
NOTE:
SPECIAL GRATE FOR THE
TYPE "H" COVER MAY ALSO BE
USED FOR THE TYPE "HM" COVER
NOTED AS TYPE HM-S ON DRAINAGE TABLE



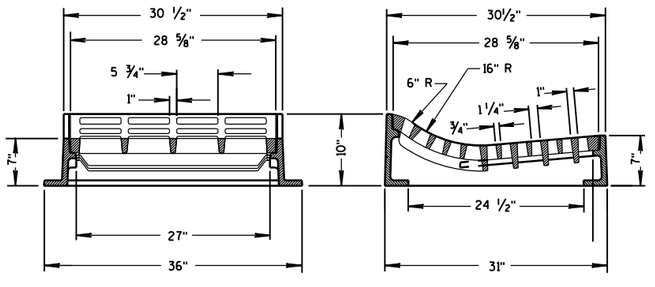


TYPE "S"



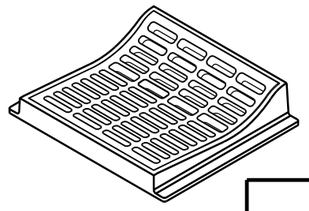


TYPE "V"



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

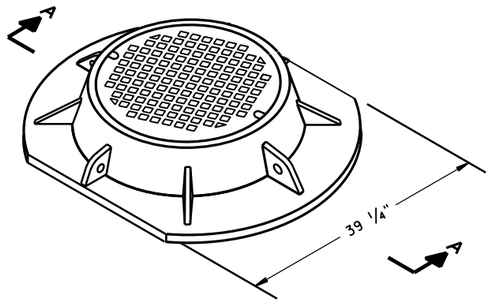
/S/ Jerry H. Zogg
ROADWAY STANDARDS ENGINEER

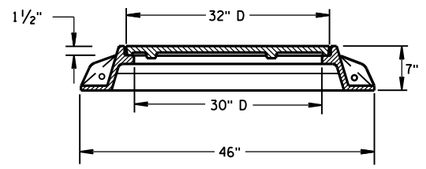
228

FHWA

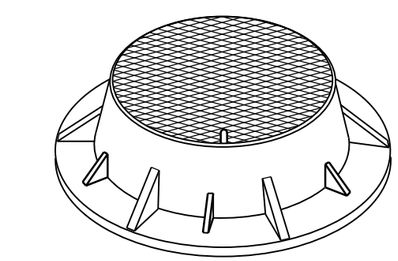
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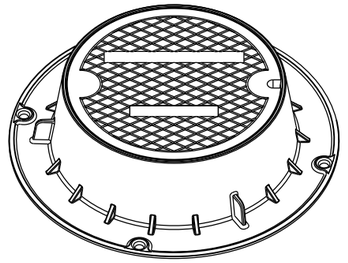
S.D.D. 8 A 5-19c

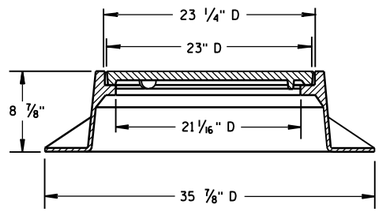


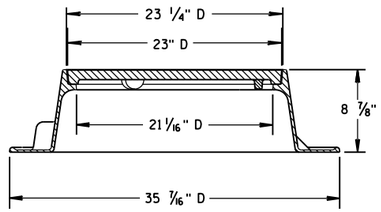


SECTION A-A
TYPE "K"









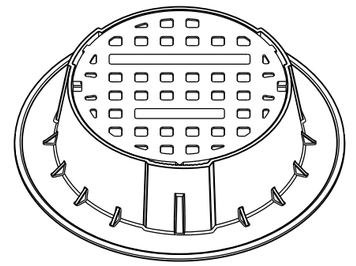
TYPE "J"
NOTE: EITHER CASTING IS ACCEPTABLE

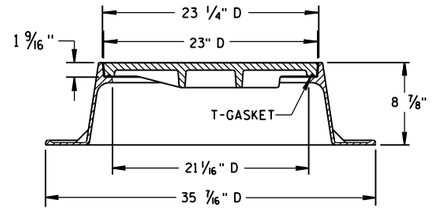
GENERAL NOTES

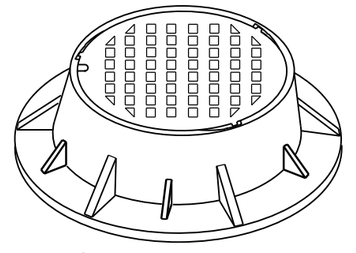
DETAILS OF CONSTRUCTION, MATERIALS AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS AND THE APPLICABLE SPECIAL PROVISIONS.

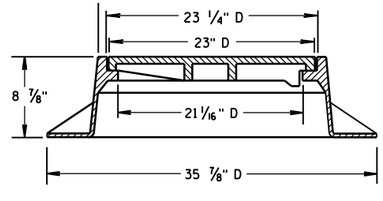
DETAIL DRAWINGS FOR PROPOSED ALTERNATE DESIGNS FOR MANHOLE COVERS SHALL BE SUBMITTED TO THE ENGINEER FOR APPROVAL PROVIDING THAT SUCH ALTERNATE DESIGNS MAKE PROVISION FOR EQUIVALENT CAPACITY AND STRENGTH.

ROUND FRAMES AND COVERS SHALL HAVE CONTINUOUSLY MACHINED BEARING SURFACES TO PREVENT ROCKING AND RATTLING.

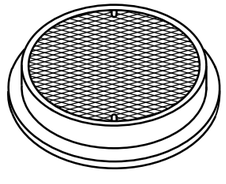


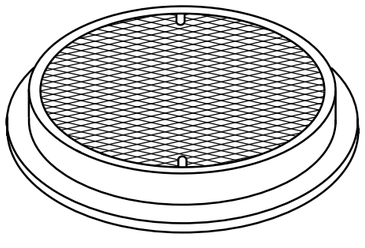


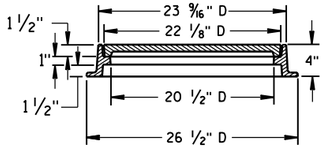




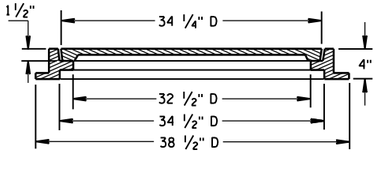
TYPE "J" SPECIAL
TYPE "B" NON-ROCKING SELF-SEAL LID
(NOTED AS TYPE J-S ON THE DRAINAGE TABLE)
NOTE: EITHER CASTING IS ACCEPTABLE



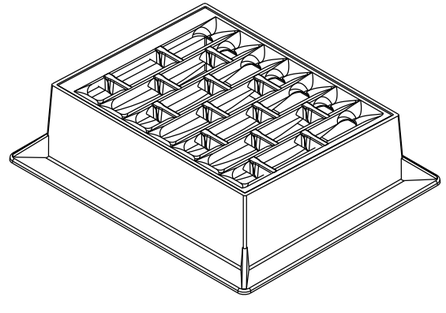


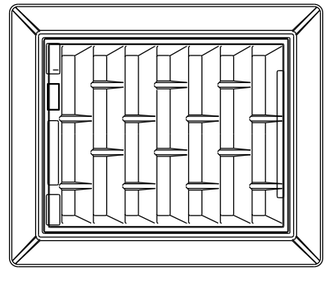


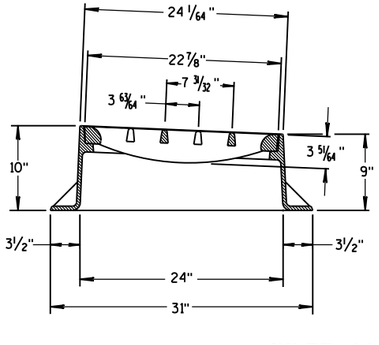
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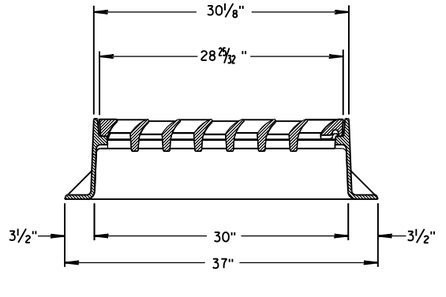


TYPE "M"









INLET COVER TYPE "BW"

INLET COVER TYPE BW
MANHOLE COVERS, TYPE K, J, J-S, L & M

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DATE
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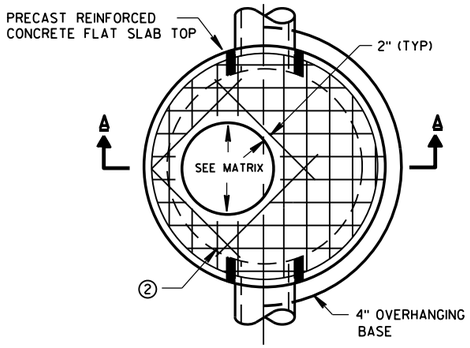
/S/ Jerry H. Zogg
ROADWAY STANDARDS DEVELOPMENT ENGINEER

6

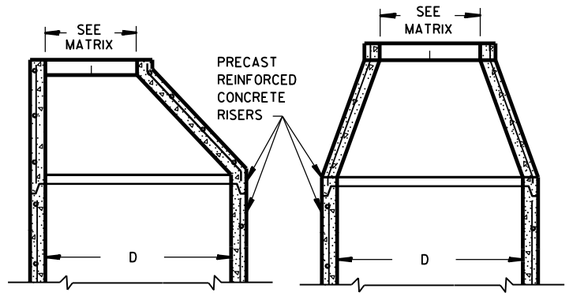
S.D.D. 8 A 5-19d

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S.D.D. 8 A 5-19d

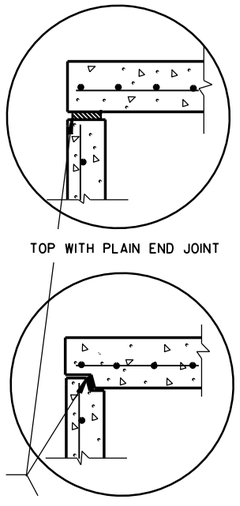


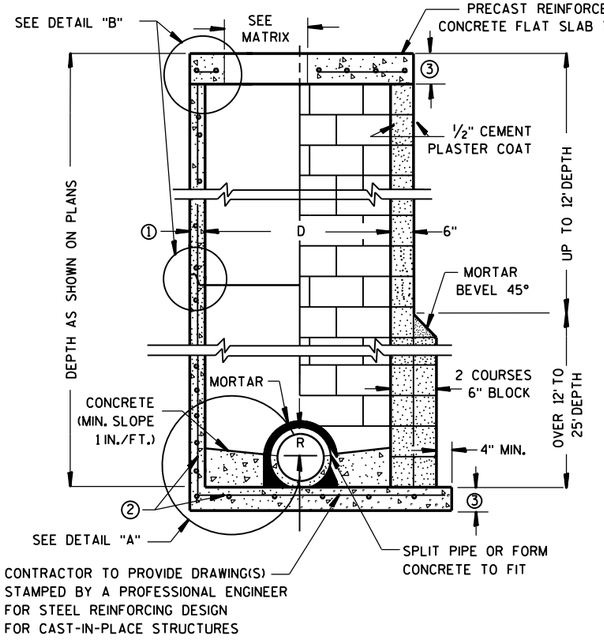
PLAN VIEW CIRCULAR OPENING



OPTIONAL PRECAST REINFORCED CONCRETE ECCENTRIC TOP

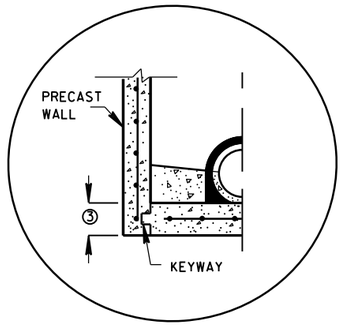
OPTIONAL PRECAST REINFORCED CONCRETE CONCENTRIC TOP



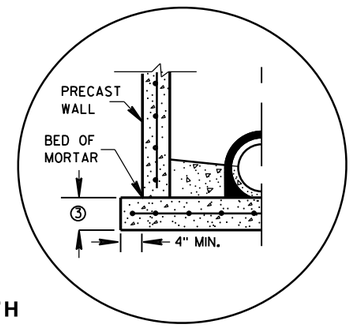


PRECAST REINFORCED CONCRETE WITH MONOLITHIC BASE

CONCRETE BLOCK WITH CAST-IN-PLACE OR PRECAST REINFORCED CONCRETE BASE ②

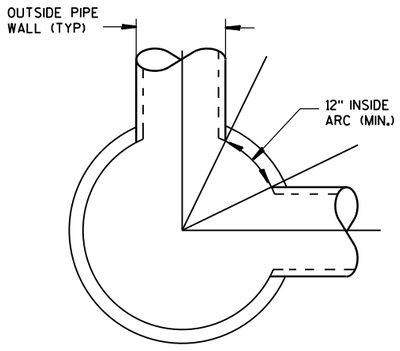


PRECAST REINFORCED CONCRETE WITH INTEGRAL BASE OPTION

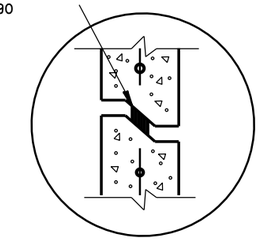


SEPARATE PRECAST REINFORCED CONCRETE BASE OPTION

DETAIL "A"



DETAIL "C"



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 MANHOLE 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 GRANULAR BACKFILL. THIS BEDDING SHALL BE COMPACTED AND PROVIDE UNIFORM SUPPORT FOR THE ENTIRE AREA OF THE BASE.

PRECAST REINFORCED CONE TOPS (ECCENTRIC OR CONCENTRIC) OR PRECAST REINFORCED FLAT SLAB TOPS MAY BE USED ON CONCRETE BLOCK STRUCTURES. THE CONE TOPS SHALL BE INSTALLED ON A BED OF MORTAR.

ECCENTRIC CONE TOPS MAY BE USED ON ALL STRUCTURES, AND CONCENTRIC CONE TOPS SHALL BE USED ONLY ON STRUCTURES 5 FEET OR LESS IN DEPTH, UNLESS OTHERWISE DIRECTED BY THE ENGINEER.

STEPS MEETING 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" 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.

CONCRETE BLOCK WILL NOT BE PERMITED FOR STRUCTURES GREATER THAN 4 FEET IN DIAMETER.

PRECAST REINFORCED RISERS SHALL HAVE A TONGUE AND GROOVE JOINT WITH TONGUE UP OR DOWN.

ALL PRECAST MANHOLE UNITS SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF AASHTO DESIGNATION M 199.

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, 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.

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".

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

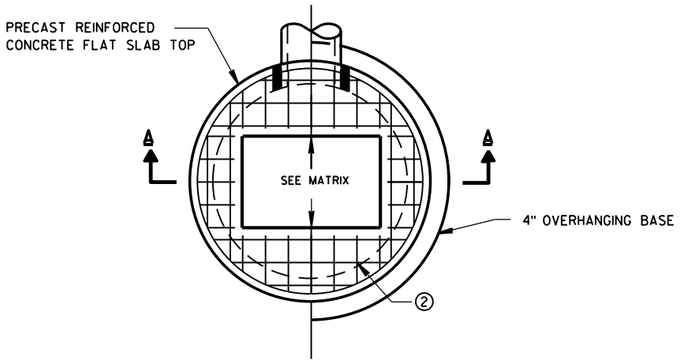
MANHOLE SIZE	MAXIMUM INSIDE PIPE DIAMETER FOR TWO PIPES	
	180° SEPARATION (IN)	90° SEPARATION (IN)
3-FT	15	12
4-FT	24	18
5-FT	36	24
6-FT	42	36
7-FT	48	36
8-FT	60	42

MANHOLES 3-FT, 4-FT, 5-FT, 6-FT, 7-FT AND 8-FT DIAMETER

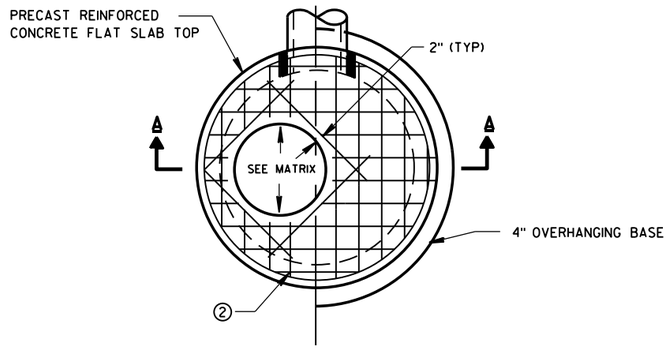
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6/5/2012 — DATE
/S/ Jerry H. Zogg — ROADWAY STANDARDS DEVELOPMENT ENGINEER
FHWA

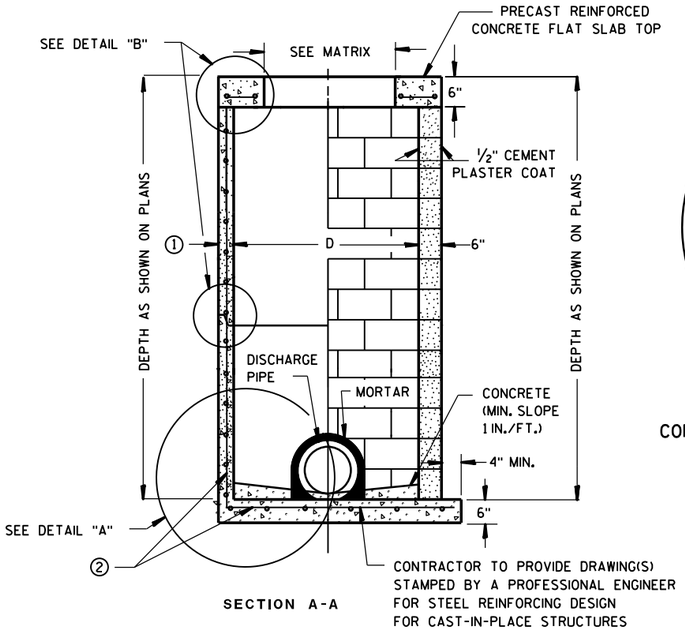
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PLAN VIEW RECTANGULAR OPENING



PLAN VIEW CIRCULAR OPENING

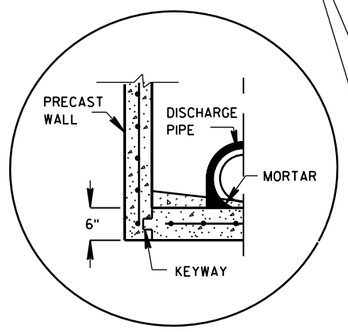


SECTION A-A

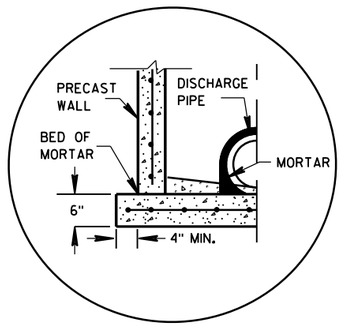
PRECAST REINFORCED CONCRETE WITH MONOLITHIC BASE

CONCRETE BLOCK WITH CAST-IN-PLACE OR PRECAST REINFORCED CONCRETE BASE ②

CIRCULAR INLETS W/ FLAT TOP

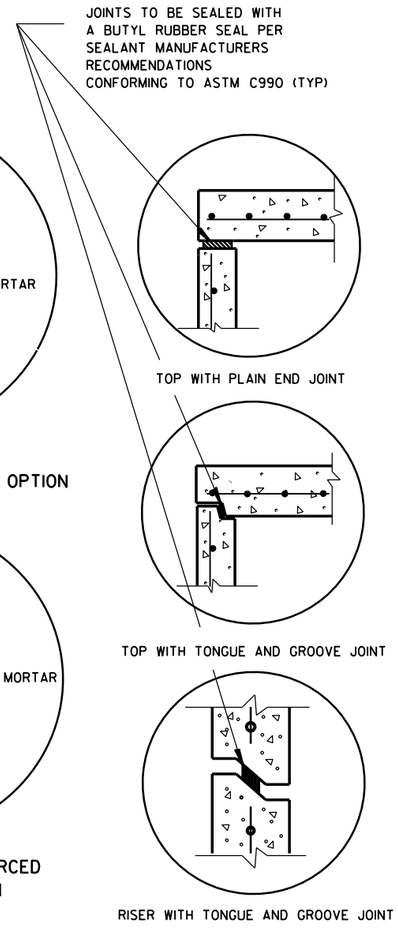


PRECAST REINFORCED CONCRETE WITH INTEGRAL BASE OPTION



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.

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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 GRANULAR 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.

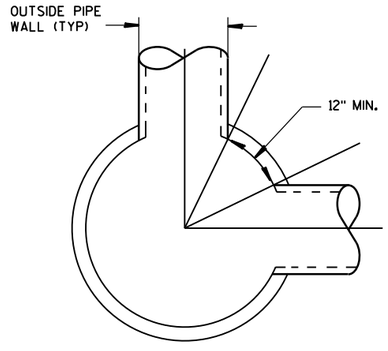
FOR ADDITIONAL CONFIGURATIONS, MAINTAIN A MINIMUM OF 12 INCHES AS MEASURED FROM THE INSIDE OF THE STRUCTURE WALL BETWEEN THE OUTSIDE PIPE WALLS OF ADJACENT PIPES. SEE DETAIL "C".

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

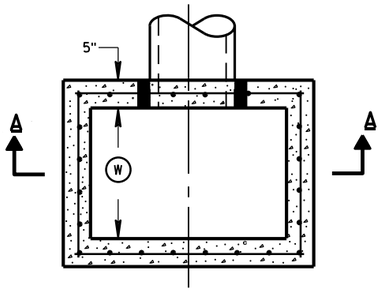
INLETS 3-FT AND 4-FT DIAMETER

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DEPARTMENT OF TRANSPORTATION

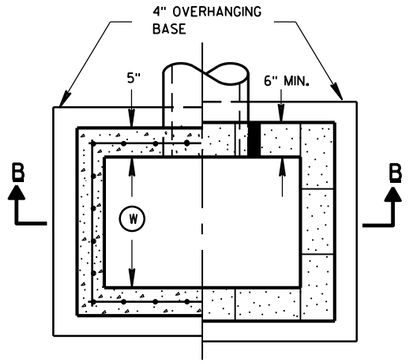
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FHWA

INLETS 3-FT AND 4-FT DIAMETER

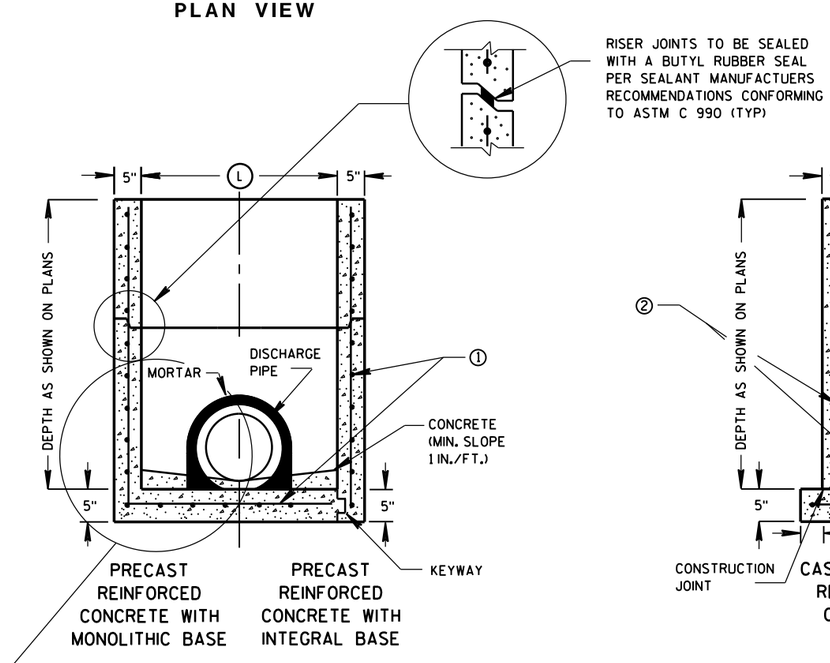
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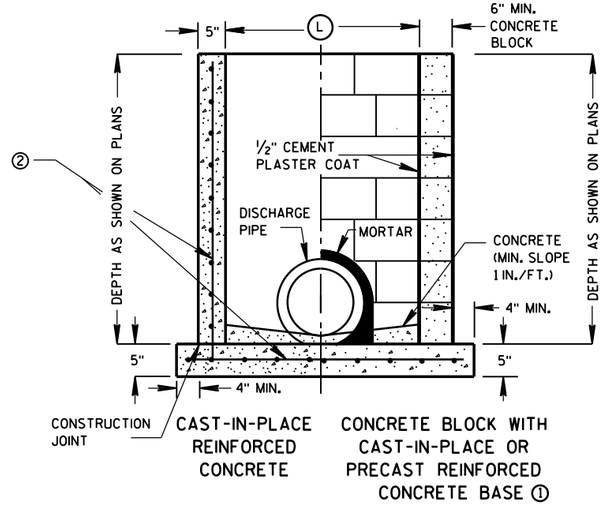
PLAN VIEW



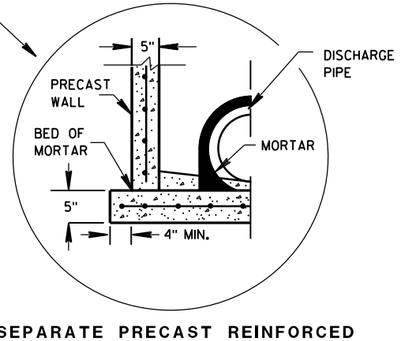
PLAN VIEW



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 GRANULAR 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.

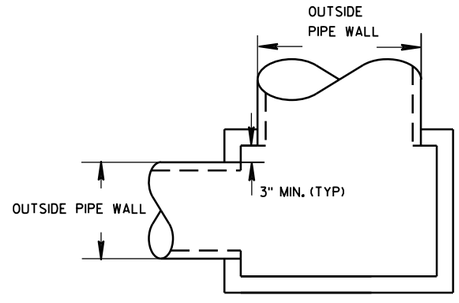
② CONTRACTOR TO PROVIDE DRAWING(S) STAMPED BY A PROFESSIONAL ENGINEER FOR STEEL REINFORCING DESIGN FOR CAST-IN-PLACE STRUCTURES.

INLET COVER MATRIX

INLET SIZE		INLET COVER TYPE	ALL A'S	ALL B'S	BW	F	ALL H'S	S	T	V	WM
	WIDTH (W) (FT)	LENGTH (L) (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"

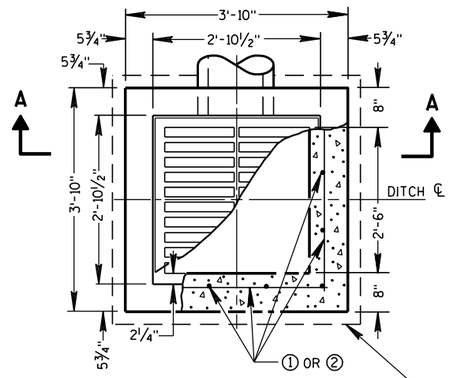
INLETS 2X2-FT, 2X2.5-FT, 2X3-FT AND 2.5X3-FT

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

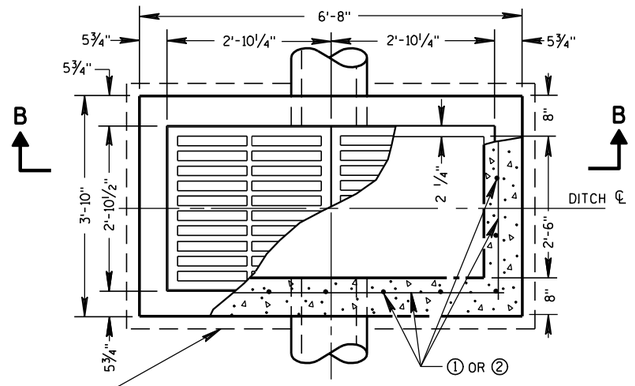
APPROVED
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/S/ Jerry H. Zogg
ROADWAY STANDARDS DE
ENGINEER

6
S.D.D. 8 C 7-1

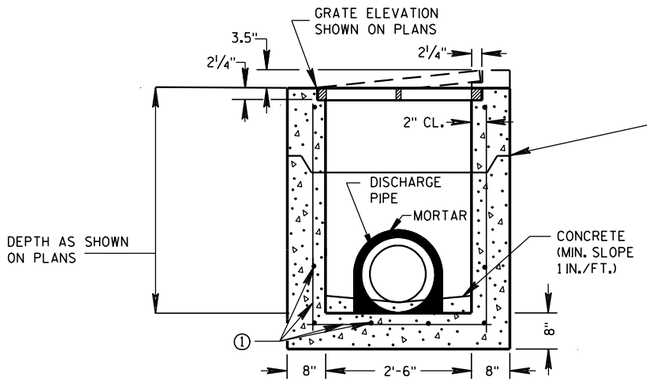


PLAN VIEW

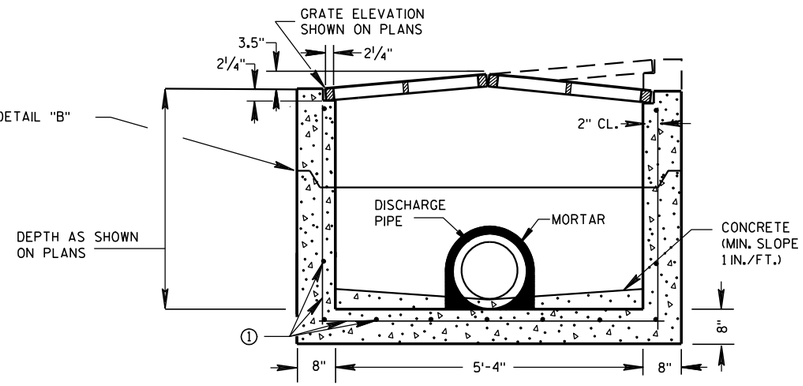


PLAN VIEW

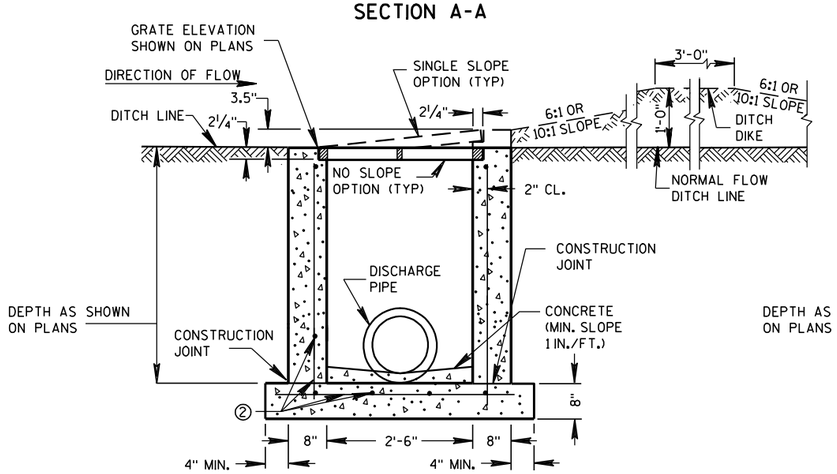
4" OVERHANGING BASE ON REINFORCED CAST-IN-PLACE CONCRETE INLETS



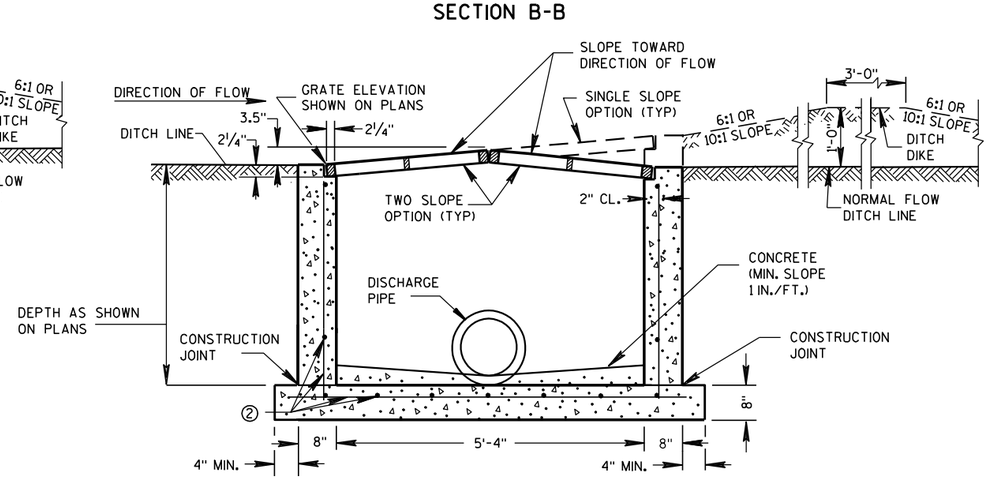
PRECAST REINFORCED CONCRETE SECTION A-A



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.

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.

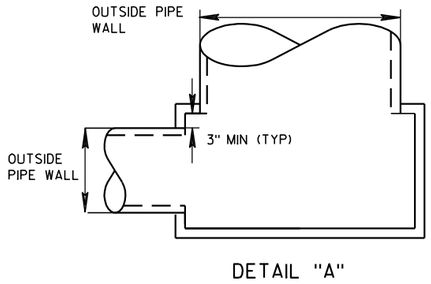
MAXIMUM INSIDE PIPE DIAMETER DETERMINED BY 3" CLEARANCE ON EACH SIDE OF THE OUTSIDE WALL OF THE PIPE. SEE DETAIL "A". ASSUMES PIPE ENTERS PERPENDICULAR TO THE STRUCTURE.

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.

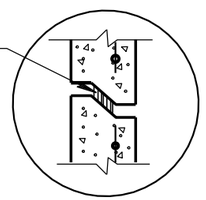
PIPE MATRIX

	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

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED

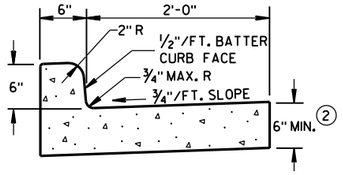
6/5/2012
DATE

/S/ Jerry H. Zogg
ROADWAY STANDARDS DEVELOPMENT ENGINEER

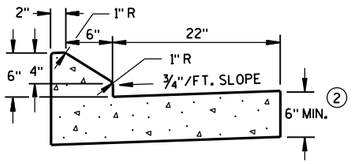
FHWA

S.D.D. 8 C 8-1

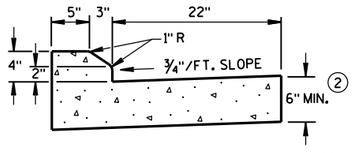
6



TYPES A & D ①

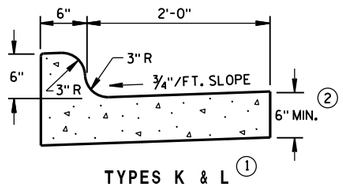


6" SLOPED CURB TYPES G & J ①

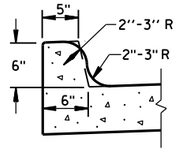


4" SLOPED CURB TYPES G & J ①

CONCRETE CURB & GUTTER 30"

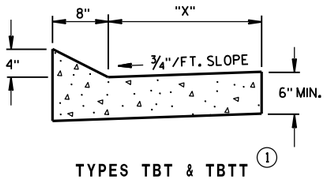


TYPES K & L ①



OPTIONAL CURB SHAPE FOR TYPES K & L ①

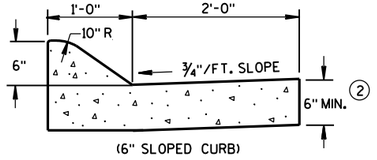
CONCRETE CURB & GUTTER 30"



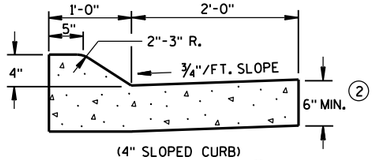
TYPES TBT & TBTT ①

CONCRETE CURB & GUTTER

TBT & TBTT	"X"
30"	22"
36"	28"

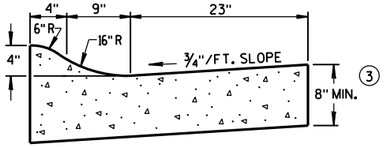


(6" SLOPED CURB)



(4" SLOPED CURB)

TYPES A & D ①



4" SLOPED CURB TYPES R & T ① ④

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.

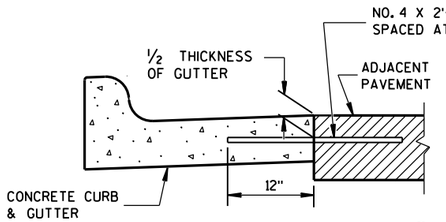
① TIE BARS ARE REQUIRED FOR CURB AND GUTTER TYPES A, G, K, R AND TBTT.

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.

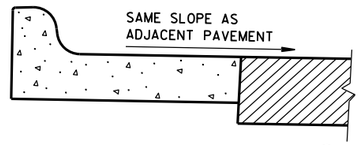
③ THE BOTTOM OF CURB AND GUTTER MAY BE CONSTRUCTED EITHER LEVEL OR PARALLEL TO THE SLOPE OF THE SUBGRADE OR BASE AGGREGATE PROVIDED A 8" MINIMUM GUTTER THICKNESS IS MAINTAINED.

④ THE FACE OF CURB IS 6" FROM THE BACK OF CURB.

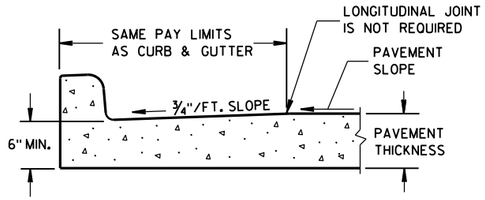
⑤ WHEN REVERSE SLOPE GUTTER IS REQUIRED, THE LOCATION(S) WILL BE SHOWN ELSEWHERE IN THE PLAN.



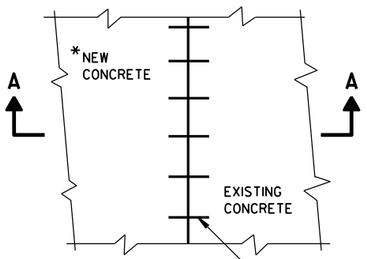
TYPICAL TIE BAR LOCATION ①



REVERSE SLOPE GUTTER ⑤
(TYPICAL FOR ALL CURB & GUTTER TYPES)

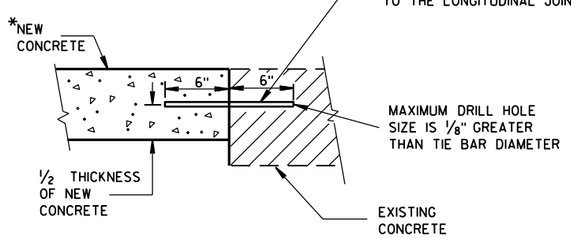


PARTIAL SECTION OF PAVEMENT
WITH INTEGRAL CURB & GUTTER



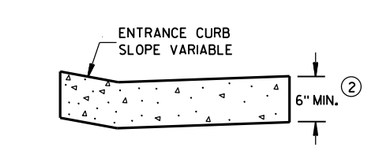
PLAN VIEW

*NEW CURB & GUTTER, SURFACE DRAINS, CONCRETE PAVEMENT OR OTHER NEW CONCRETE.

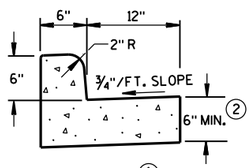


SECTION A-A

TIE BARS DRILLED
INTO EXISTING PAVEMENT

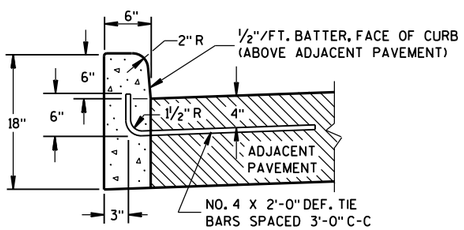


DRIVEWAY ENTRANCE CURB
(WHEN DIRECTED BY THE ENGINEER)

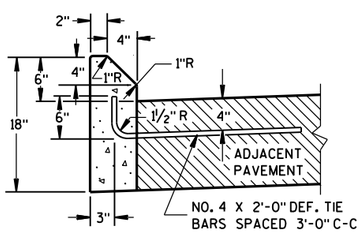


① TYPES A & D

CONCRETE CURB & GUTTER 18"

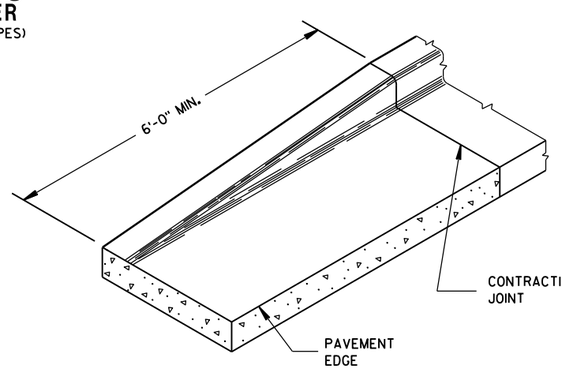


① TYPES A & D



① TYPES G & J

CONCRETE CURB



END SECTION CURB & GUTTER

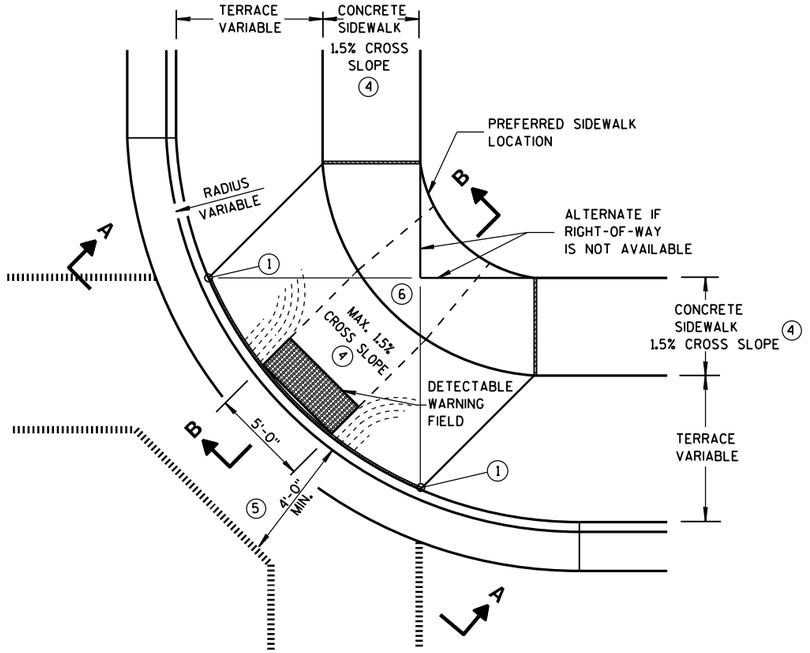
CONCRETE CURB, CONCRETE CURB & GUTTER AND TIES

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
June, 2015 — DATE
/S/ Jerry H. Zogg — ROADWAY STANDARDS ENGINEER
FHWA

6

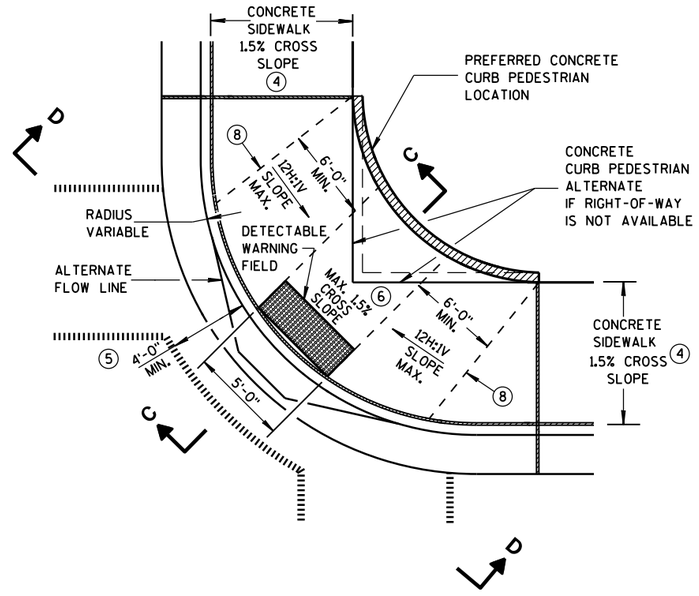
S.D.D. 8 D 1-18



PLAN VIEW

TYPE 1 RAMP

(CENTER OF CORNER RADIUS)



PLAN VIEW

TYPE 1-A RAMP

(NO TERRACE)

GENERAL NOTES

DETAILS OF CONSTRUCTION, MATERIALS AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS AND THE APPLICABLE SPECIAL PROVISIONS.

WHEN NECESSARY, THE SIDEWALK ELEVATION MAY BE LOWERED TO MEET THE HIGH POINT ON THE RAMP.

TYPE 1 RAMPS SHALL HAVE A NORMAL SIDEWALK APRON AND CURB ON BOTH SIDES OF RAMP.

DETECTABLE WARNING FIELD SHALL BE MEASURED AND PAID BY THE SQUARE FOOT AS "CURB RAMP DETECTABLE WARNING FIELD". THE CONCRETE PEDESTRIAN CURB, IF NEEDED, SHALL BE MEASURED AND PAID BY THE LINEAL FOOT AS "CONCRETE CURB PEDESTRIAN". CONCRETE SIDEWALK IN THE CURB RAMP AREA SHALL BE MEASURED AND PAID BY THE SQUARE FOOT AS CONCRETE SIDEWALK, INCLUDING THE AREA UNDER THE DETECTABLE WARNING FIELD.

SELECT CURB RAMP DETECTABLE WARNING FIELD MATERIALS AND DEVICES FROM THE DEPARTMENT'S APPROVED MATERIALS LIST. THE COLOR OF THE DETECTABLE WARNING FIELD IS SPECIFIED ELSEWHERE AND IS INCIDENTAL TO THE BID ITEM OF "CURB RAMP DETECTABLE WARNING FIELD".

DETECTABLE WARNING FIELDS THAT ARE INSTALLED AS A GROUP OR SIDE BY SIDE, SHALL BE FROM THE SAME MANUFACTURER.

SURFACE TEXTURE OF THE RAMP SHALL BE OBTAINED BY COARSE BROOMING TRANSVERSE TO THE SLOPE OF THE RAMP.

(1) THIS POINT IS AN EXTENSION OF OUTSIDE EDGE OF APPROACHING SIDEWALK WHERE IT MEETS THE BACK OF CONCRETE CURB.

(2) GRADE CHANGE BETWEEN GUTTER FLAG SLOPE AND THE CURB RAMP SLOPE SHALL NOT EXCEED 11%. MAXIMUM GUTTER FLAG SLOPE IS 4%. PROVIDE DRAINAGE AWAY FROM CURB RAMP AT GUTTER FLAG INTERFACE. NO VERTICAL LIPS OR DISCONTINUITIES GREATER THAN $\frac{1}{4}$-INCH ARE ALLOWED.

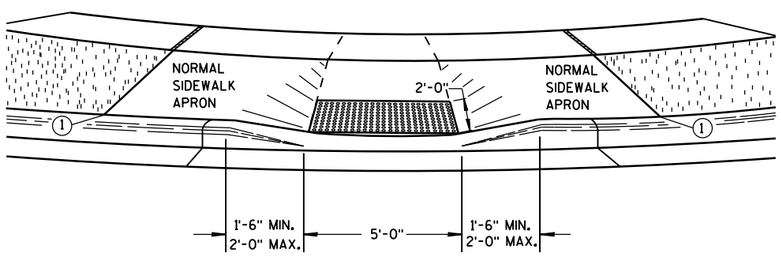
(3) ABSOLUTE MAXIMUM 12H:1V (8.33%) CURB RAMP SLOPE IS ALLOWABLE WITH FLATTENED GUTTER FLAG SLOPE AND NOT TO EXCEED 11% GRADE CHANGE.

(4) ±0.5% CONSTRUCTION TOLERANCE IN SIDEWALK CROSS SLOPE. THE SIDEWALK CROSS SLOPE SHALL NOT EXCEED 2% WITHOUT PRIOR APPROVAL FROM THE ENGINEER.

(5) PROVIDE A LEVEL LANDING IN THE STREET AND GUTTER AREA. (2% MAXIMUM SLOPE IN ANY DIRECTION). WHEN THE GUTTER SLOPE EXCEEDS 2%, CONSTRUCT THE LEVEL LANDING IN THE STREET AREA.

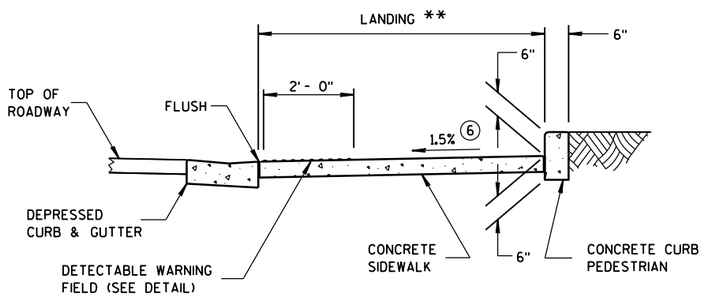
(6) PROVIDE A LEVEL LANDING (MAXIMUM 2% SLOPE) IN ANY DIRECTION OF PEDESTRIAN TRAVEL. STANDARD LANDING SIZE IS 5 FEET X 5 FEET (MINIMUM 4 FEET X 4 FEET).

(8) PROVIDE GRADE BREAK PERPENDICULAR TO DIRECTION OF WHEELCHAIR TRAVEL.



VIEW A-A

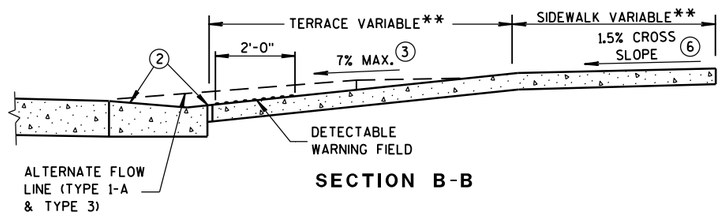
** WIDTH SHOWN ELSEWHERE IN THE PLANS



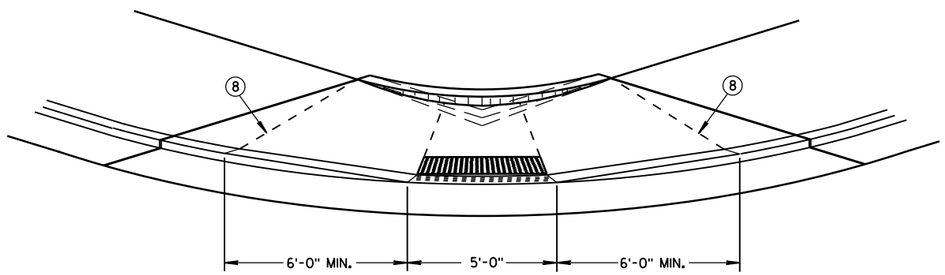
SECTION C-C

LEGEND

- ½" EXPANSION JOINT-SIDEWALK
- CONTRACTION JOINT FIELD LOCATED
- PAVEMENT MARKING CROSSWALK (WHITE)
- ALTERNATIVE LAYOUT



SECTION B-B



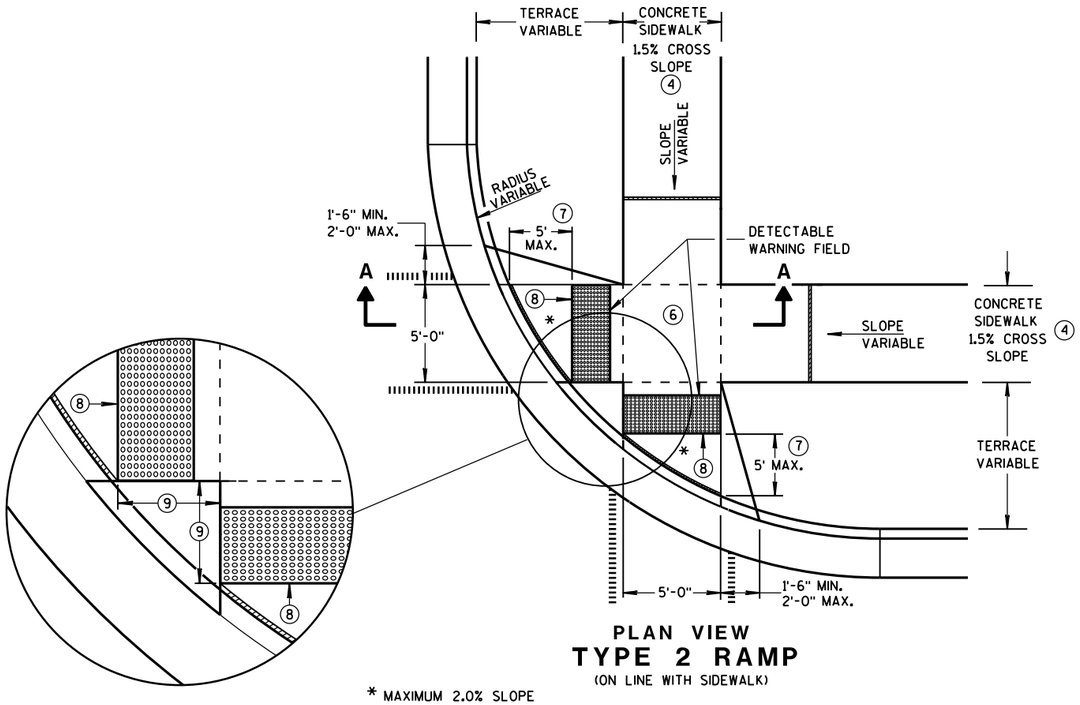
VIEW D-D

CURB RAMPS TYPES 1 AND 1-A

STATE OF WISCONSIN
DEPARTMENT OF TRANSPOI

6

S.D.D. 8 D 5-16a

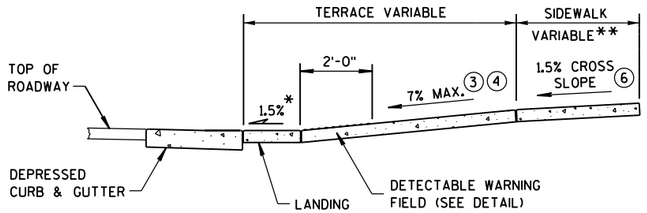


PLAN VIEW

TYPE 2 RAMP

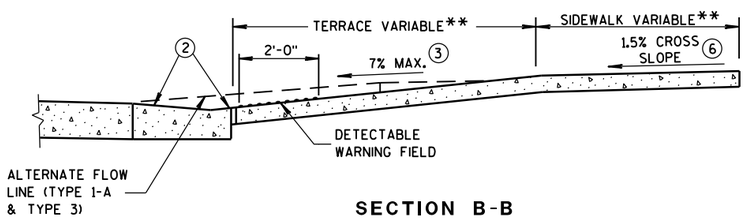
(ON LINE WITH SIDEWALK)

* MAXIMUM 2.0% SLOPE IN ALL DIRECTIONS IN FRONT OF GRADE BREAK



SECTION A-A

** WIDTH SHOWN ELSEWHERE IN THE PLANS



SECTION B-B

GENERAL NOTES

USE THE TYPE 3 RAMP ONLY WHEN A TYPE 1 OR TYPE 2 CANNOT BE ACHIEVED BECAUSE OF FIELD CONDITIONS.

DETECTABLE WARNING FIELDS THAT ARE INSTALLED AS A GROUP OR SIDE BY SIDE, SHALL BE FROM THE SAME MANUFACTURER.

(2) GRADE CHANGE BETWEEN GUTTER FLAG SLOPE AND THE CURB RAMP SLOPE SHALL NOT EXCEED 11%. MAXIMUM GUTTER FLAG SLOPE IS 4%. PROVIDE DRAINAGE AWAY FROM CURB RAMP AT GUTTER FLAG INTERFACE. NO VERTICAL LIPS OR DISCONTINUITIES GREATER THAN 1/4-INCH ARE ALLOWED.

(3) ABSOLUTE MAXIMUM 12H:1V (8.33%) CURB RAMP SLOPE IS ALLOWABLE WITH FLATTENED GUTTER FLAG SLOPE AND NOT TO EXCEED 11% GRADE CHANGE.

(4) ±0.5% CONSTRUCTION TOLERANCE IN SIDEWALK CROSS SLOPE. THE SIDEWALK CROSS SLOPE SHALL NOT EXCEED 2% WITHOUT PRIOR APPROVAL FROM THE ENGINEER.

(6) PROVIDE A LEVEL LANDING (MAXIMUM 2% SLOPE) IN ANY DIRECTION OF PEDESTRIAN TRAVEL. STANDARD LANDING SIZE IS 5 FEET X 5 FEET (MINIMUM 4 FEET X 4 FEET).

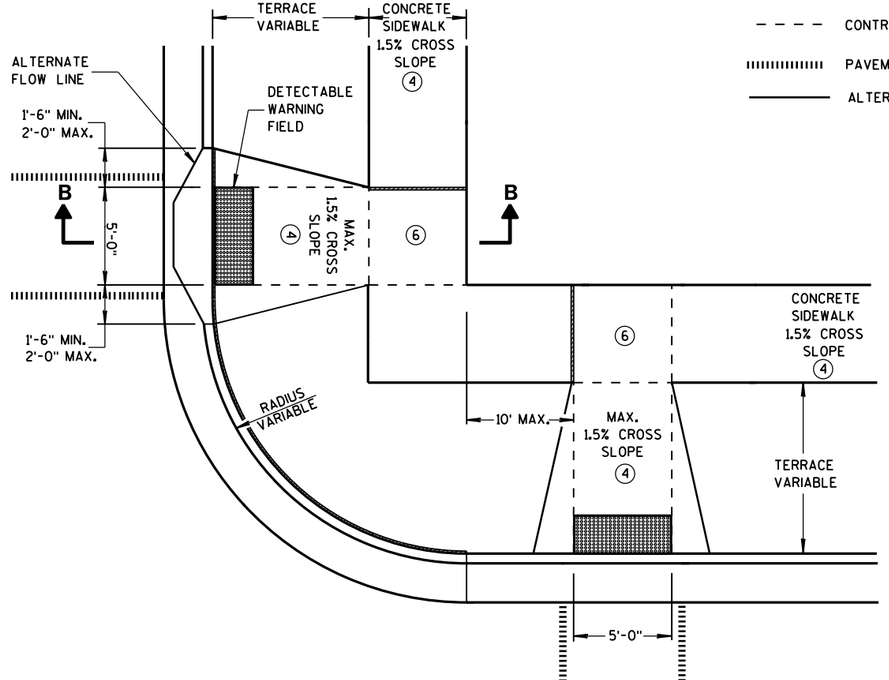
(7) WHEN THIS DISTANCE EXCEEDS 5 FEET, USE MULTIPLE DETECTABLE WARNING PANELS ACROSS THE RAMP AND STAGGER ADDITIONAL DETECTABLE WARNING PANEL(S) FORWARD TO REDUCE THIS DISTANCE.

(8) PROVIDE GRADE BREAK PERPENDICULAR TO DIRECTION OF WHEELCHAIR TRAVEL.

(9) WHEN THIS DISTANCE IS LESS THAN 6'-0", IT MAY BE DIFFICULT TO ACHIEVE A 7% SLOPE OR FLATTER ALONG THE RAMP. REDUCE CURB HEIGHT IN TRIANGLE AREA TO ACHIEVE 7% SLOPE OR FLATTER ON RAMP. 2" MINIMUM CURB HEIGHT.

LEGEND

- ½" EXPANSION JOINT-SIDEWALK
- CONTRACTION JOINT FIELD LOCATED
- PAVEMENT MARKING CROSSWALK (WHITE)
- ALTERNATIVE LAYOUT



PLAN VIEW

TYPE 3 RAMP

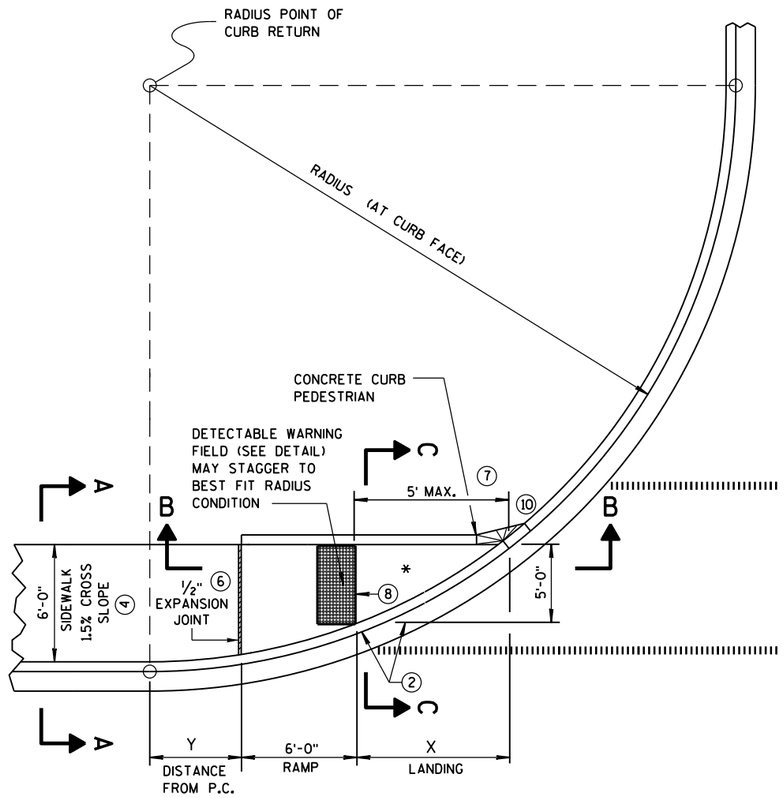
(OUTSIDE OF CROSSWALK AREA)

CURB RAMPS TYPES 2 AND 3

STATE OF WISCONSIN
DEPARTMENT OF TRANSPOR

6

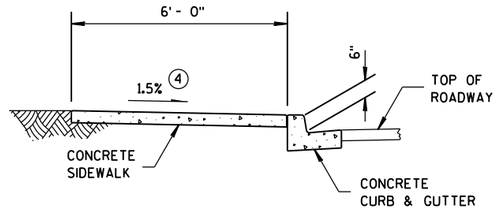
S.D.D. 8 D 5-16b



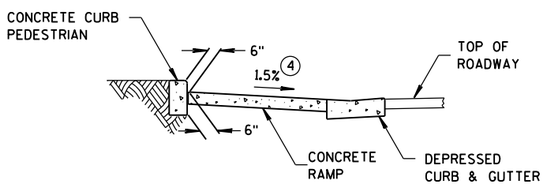
CURB RAMP TYPE 4A
PLAN VIEW

RADIUS (AT CURB FACE)	X	Y
20 FEET	6'-1¾"	2'-7¼"
30 FEET	7'-11¾"	4'-8¼"
40 FEET	9'-5¼"	6'-5"
50 FEET	10'-8¾"	7'-11¼"
60 FEET	11'-10¼"	9'-3½"

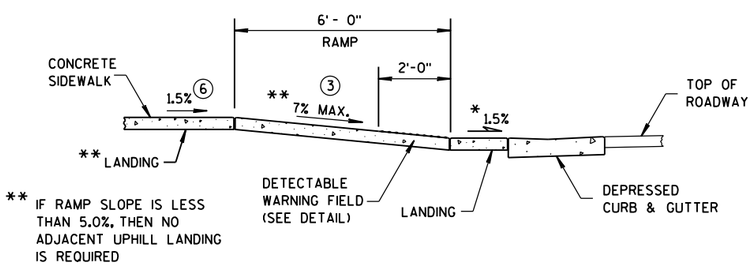
INTERMEDIATE RADII CAN BE INTERPOLATED



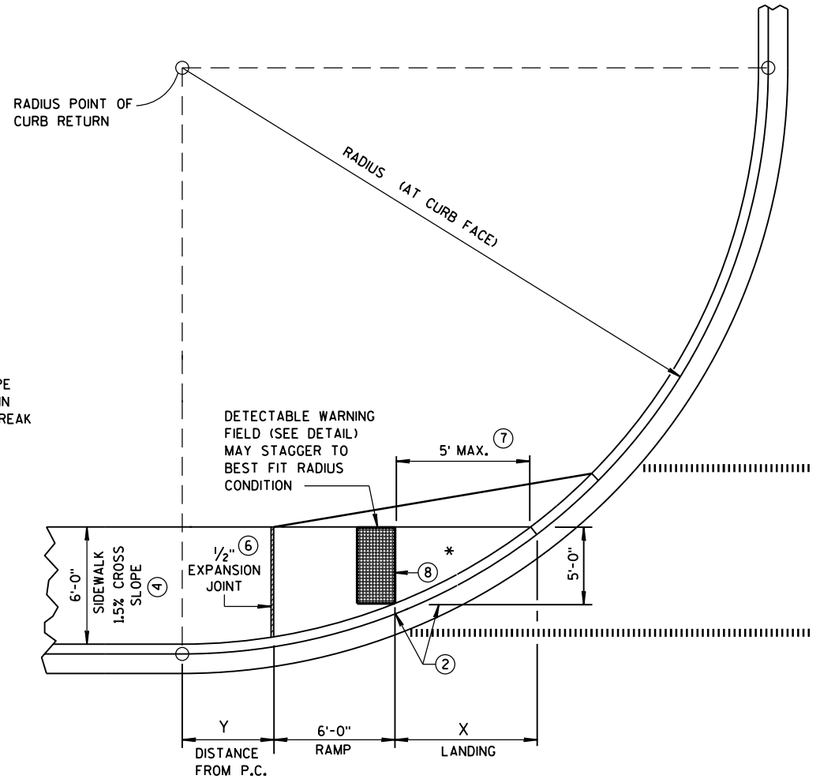
SECTION A-A FOR TYPE 4A



SECTION C-C FOR TYPE 4A



SECTION B-B FOR TYPE 4A



* MAXIMUM 2.0% SLOPE IN ALL DIRECTIONS IN FRONT OF GRADE BREAK

CURB RAMP TYPE 4A1
PLAN VIEW

GENERAL NOTES

AVOID PLACING DRAINAGE STRUCTURES, JUNCTION BOXES OR OTHER OBSTRUCTIONS IN FRONT OF RAMP ACCESS AREAS.

DETECTABLE WARNING FIELDS THAT ARE INSTALLED AS A GROUP OR SIDE BY SIDE, SHALL BE FROM THE SAME MANUFACTURER.

(2) GRADE CHANGE BETWEEN GUTTER FLAG SLOPE AND THE CURB RAMP SLOPE SHALL NOT EXCEED 11%. MAXIMUM GUTTER FLAG SLOPE IS 4%. PROVIDE DRAINAGE AWAY FROM CURB RAMP AT GUTTER FLAG INTERFACE. NO VERTICAL LIPS OR DISCONTINUITIES GREATER THAN 1/4-INCH ARE ALLOWED.

(3) ABSOLUTE MAXIMUM 12H:1V (8.33%) CURB RAMP SLOPE IS ALLOWABLE WITH FLATTENED GUTTER FLAG SLOPE AND NOT TO EXCEED 11% GRADE CHANGE.

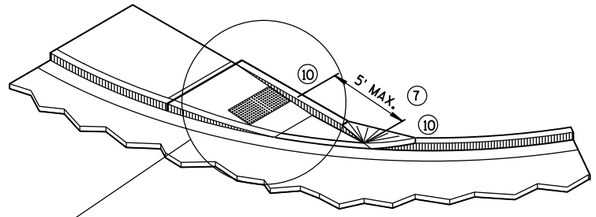
(4) ±0.5% CONSTRUCTION TOLERANCE IN SIDEWALK CROSS SLOPE. THE SIDEWALK CROSS SLOPE SHALL NOT EXCEED 2% WITHOUT PRIOR APPROVAL FROM THE ENGINEER.

(6) PROVIDE A LEVEL LANDING (MAXIMUM 2% SLOPE) IN ANY DIRECTION OF PEDESTRIAN TRAVEL. STANDARD LANDING SIZE IS 5 FEET X 5 FEET (MINIMUM 4 FEET X 4 FEET).

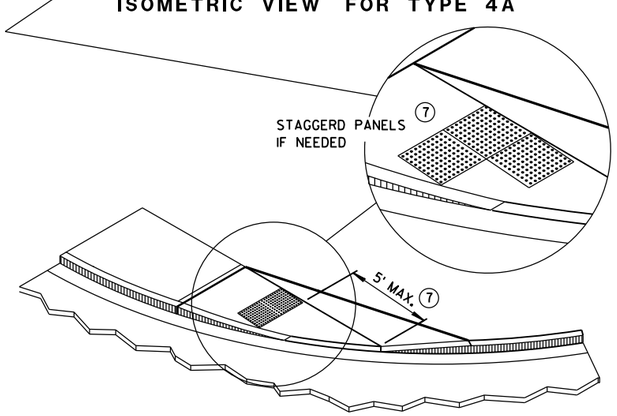
(7) WHEN THIS DISTANCE EXCEEDS 5 FEET, USE MULTIPLE DETECTABLE WARNING PANELS ACROSS THE RAMP AND STAGGER ADDITIONAL DETECTABLE WARNING PANEL(S) FORWARD TO REDUCE THIS DISTANCE.

(8) PROVIDE GRADE BREAK PERPENDICULAR TO DIRECTION OF WHEELCHAIR TRAVEL.

(10) INSTALL TRANSITION NOSE. (INCIDENTAL TO OTHER PAY ITEMS). DO NOT MARK TRANSITION NOSE.



ISOMETRIC VIEW FOR TYPE 4A



ISOMETRIC VIEW FOR TYPE 4A1

LEGEND

- ½" EXPANSION JOINT-SIDEWALK
- CONTRACTION JOINT FIELD LOCATED
- PAVEMENT MARKING CROSSWALK (WHITE)

CURB RAMPS TYPES 4A AND 4A1

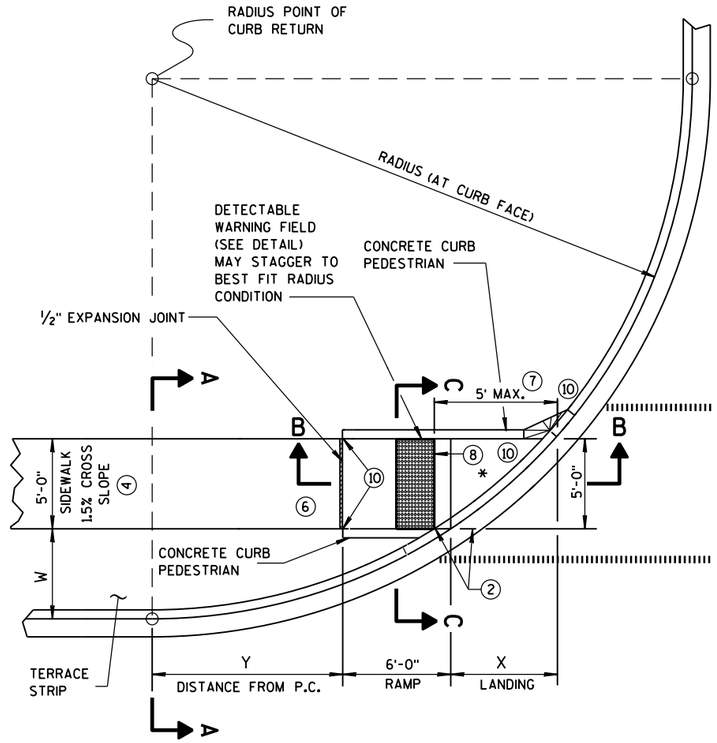
STATE OF WISCONSIN
DEPARTMENT OF TRANSPOR 237

6

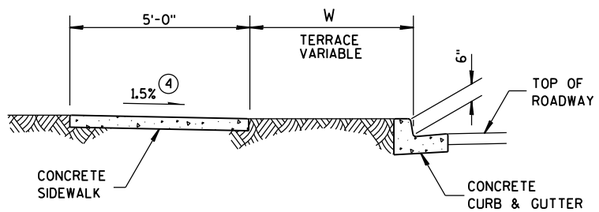
S.D.D. 8 D 5-16c

6

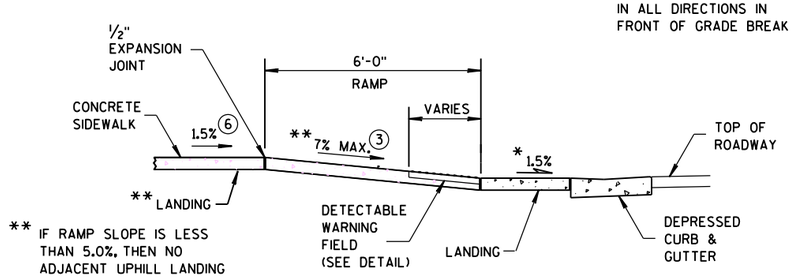
S.D.D. 8 D 5-16c



CURB RAMP TYPE 4B
PLAN VIEW



SECTION A-A FOR TYPE 4B



* MAXIMUM 2.0% SLOPE IN ALL DIRECTIONS IN FRONT OF GRADE BREAK

** IF RAMP SLOPE IS LESS THAN 5.0%, THEN NO ADJACENT UPHILL LANDING IS REQUIRED

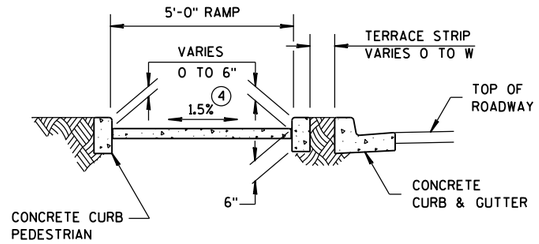
SECTION B-B FOR TYPE 4B

LEGEND

½" EXPANSION JOINT-SIDEWALK

CONTRACTION JOINT FIELD LOCATED

PAVEMENT MARKING CROSSWALK (WHITE)



SECTION C-C FOR TYPE 4B

RADIUS (AT CURB FACE)	W = 3'-0"		W = 4'-0"		W = 5'-0"		W = 6'-0"		W = 7'-0"	
	X	Y	X	Y	X	Y	X	Y	X	Y
20 FEET	5'-5½"	4'-6½"	4'-8½"	6'-0"	4'-1"	7'-2¾"	3'-7"	8'-3½"	3'-1½"	9'-2½"
30 FEET	7'-3¾"	7'-1"	6'-5½"	8'-11½"	5'-9¼"	10'-7"	5'-2½"	12'-0"	4'-8¾"	13'-3¼"
40 FEET	8'-9½"	9'-2½"	7'-10"	11'-5¼"	7'-1"	13'-4½"	6'-5¾"	15'-¾"	5'-11½"	16'-7¼"
50 FEET	10'-¾"	11'-¾"	9'-¼"	13'-7¼"	8'-2½"	15'-9½"	7'-6½"	17'-9"	6'-11¾"	19'-6¼"
60 FEET	11'-2½"	12'-8¾"	10'-¾"	15'-6½"	9'-2¼"	17'-11¾"	8'-5¾"	20'-1¾"	7'-10½"	22'-1½"

INTERMEDIATE RADII CAN BE INTERPOLATED

GENERAL NOTES

AVOID PLACING DRAINAGE STRUCTURES, JUNCTION BOXES OR OTHER OBSTRUCTIONS IN FRONT OF RAMP ACCESS AREAS.

DETECTABLE WARNING FIELDS THAT ARE INSTALLED AS A GROUP OR SIDE BY SIDE, SHALL BE FROM THE SAME MANUFACTURER.

(2) GRADE CHANGE BETWEEN GUTTER FLAG SLOPE AND THE CURB RAMP SLOPE SHALL NOT EXCEED 11%. MAXIMUM GUTTER FLAG SLOPE IS 4%. PROVIDE DRAINAGE AWAY FROM CURB RAMP AT GUTTER FLAG INTERFACE. NO VERTICAL LIPS OR DISCONTINUITIES GREATER THAN ¼-INCH ARE ALLOWED.

(3) ABSOLUTE MAXIMUM 12H:1V (8.33%) CURB RAMP SLOPE IS ALLOWABLE WITH FLATTENED GUTTER FLAG SLOPE AND NOT TO EXCEED 11% GRADE CHANGE.

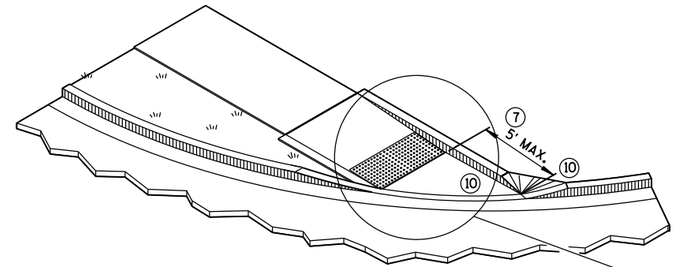
(4) ±0.5% CONSTRUCTION TOLERANCE IN SIDEWALK CROSS SLOPE. THE SIDEWALK CROSS SLOPE SHALL NOT EXCEED 2% WITHOUT PRIOR APPROVAL FROM THE ENGINEER.

(6) PROVIDE A LEVEL LANDING (MAXIMUM 2% SLOPE) IN ANY DIRECTION OF PEDESTRIAN TRAVEL. STANDARD LANDING SIZE IS 5 FEET X 5 FEET (MINIMUM 4 FEET X 4 FEET).

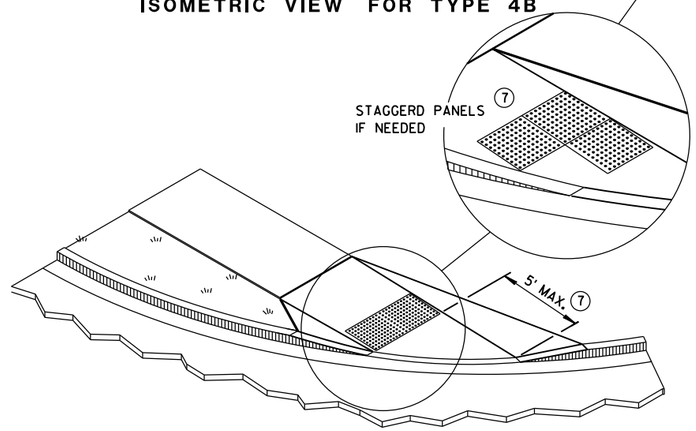
(7) WHEN THIS DISTANCE EXCEEDS 5 FEET, USE MULTIPLE DETECTABLE WARNING PANELS ACROSS THE RAMP AND STAGGER ADDITIONAL DETECTABLE WARNING PANEL(S) FORWARD TO REDUCE THIS DISTANCE.

(8) PROVIDE GRADE BREAK PERPENDICULAR TO DIRECTION OF WHEELCHAIR TRAVEL.

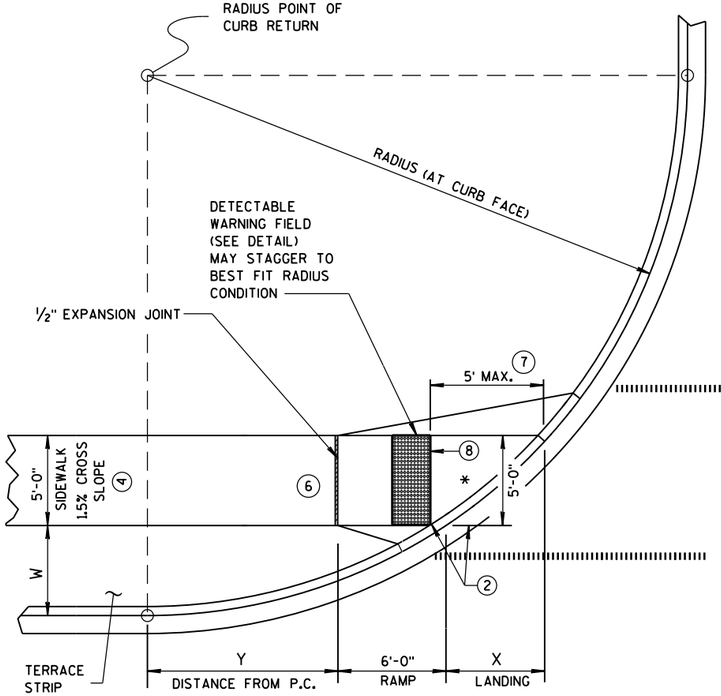
(10) INSTALL TRANSITION NOSE. (INCIDENTAL TO OTHER PAY ITEMS). DO NOT MARK TRANSITION NOSE.



ISOMETRIC VIEW FOR TYPE 4B



ISOMETRIC VIEW FOR TYPE 4B1



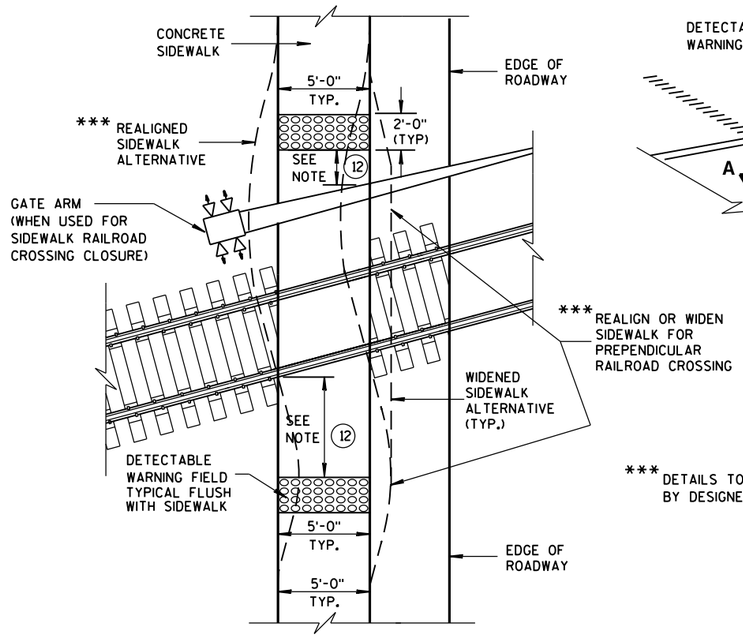
CURB RAMP TYPE 4B1
PLAN VIEW

CURB RAMPS
TYPE 4B AND 4B1

STATE OF WISCONSIN
DEPARTMENT OF TRANSPOI

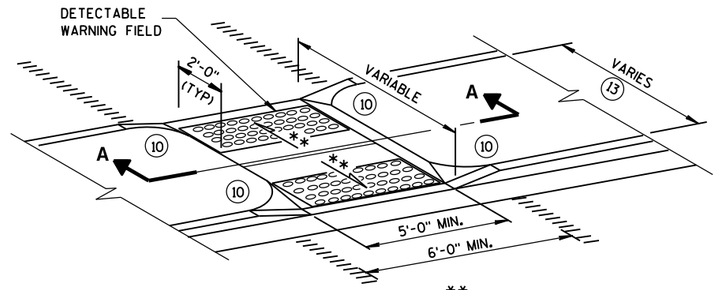
6

S.D.D. 8 D 5-16d



TYPE 8
DETECTABLE WARNINGS AT RAILROAD CROSSING

*** DETAILS TO BE DETERMINED BY DESIGNER



** 1% MIN. (PROVIDE DRAINAGE)

MEDIAN ISLAND
NON-ELEVATED CROSSING
TYPE 5

GENERAL NOTES

SIDEWALK CROSS SLOPE SHALL NOT EXCEED 2%.

DETECTABLE WARNING FIELDS THAT ARE INSTALLED AS A GROUP OR SIDE BY SIDE, SHALL BE FROM THE SAME MANUFACTURER.

(2) GRADE CHANGE BETWEEN GUTTER FLAG SLOPE AND THE CURB RAMP SLOPE SHALL NOT EXCEED 11%. MAXIMUM GUTTER FLAG SLOPE IS 4%. PROVIDE DRAINAGE AWAY FROM CURB RAMP AT GUTTER FLAG INTERFACE. NO VERTICAL LIPS OR DISCONTINUITIES GREATER THAN 1/4-INCH ARE ALLOWED.

(3) ABSOLUTE MAXIMUM 12H:1V (8.33%) CURB RAMP SLOPE IS ALLOWABLE WITH FLATTENED GUTTER FLAG SLOPE AND NOT TO EXCEED 11% GRADE CHANGE.

(4) ±0.5% CONSTRUCTION TOLERANCE IN SIDEWALK CROSS SLOPE. THE SIDEWALK CROSS SLOPE SHALL NOT EXCEED 2% WITHOUT PRIOR APPROVAL FROM THE ENGINEER.

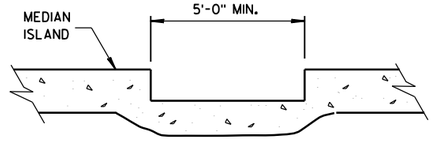
(6) PROVIDE A LEVEL LANDING (MAXIMUM 2% SLOPE) IN ANY DIRECTION OF PEDESTRIAN TRAVEL. STANDARD LANDING SIZE IS 5 FEET X 5 FEET (MINIMUM 4 FEET X 4 FEET).

(10) INSTALL TRANSITION NOSE. (INCIDENTAL TO OTHER PAY ITEMS). DO NOT MARK TRANSITION NOSE.

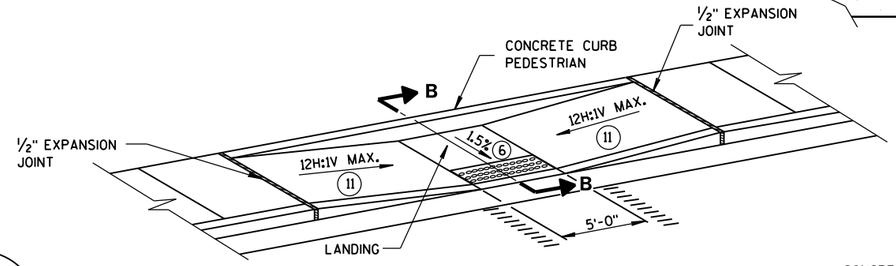
(11) SLOPE SIDEWALK TOWARD LANDING AS SHOWN WHERE THERE IS NO TERRACE OR WHERE THE TERRACE WIDTH IS LESS THAN 6 FEET WIDE.

(12) THE EDGE OF THE DETECTABLE WARNING FIELD NEAREST TO A RAILROAD CROSSING SHALL BE 1.5 FEET ± 0.1' FROM THE FACE OF THE GATE ARM IF THE GATE ARM EXTENDS ACROSS THE SIDEWALK. WHERE THERE IS NO PEDESTRIAN GATE, THE EDGE OF THE DETECTABLE WARNING FIELD NEAREST TO THE RAILROAD CROSSING SHALL BE 15 FEET FROM THE NEAREST RAIL.

(13) DO NOT INSTALL DETECTABLE WARNING FIELDS IF MEDIAN WIDTH BETWEEN BACK OF CURBS IS LESS THAN 6 FEET.



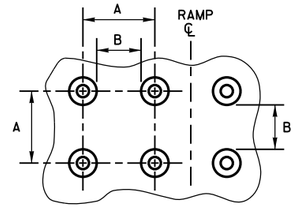
SECTION A-A



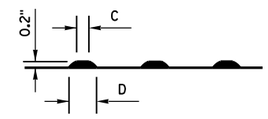
MID-BLOCK CROSSING
TYPE 7A

	MIN.	MAX.
A	1.6"	2.4"
B	0.65"	1.5"
C	*	*
D	0.9"	1.4"

* THE C DIMENSION IS 50% TO 65% OF THE D DIMENSION.

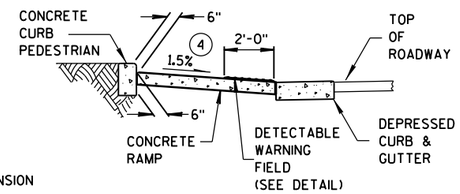


PLAN VIEW

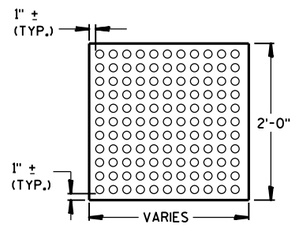


ELEVATION VIEW

TRUNCATED DOMES
DETECTABLE WARNING PATTERN DETAIL



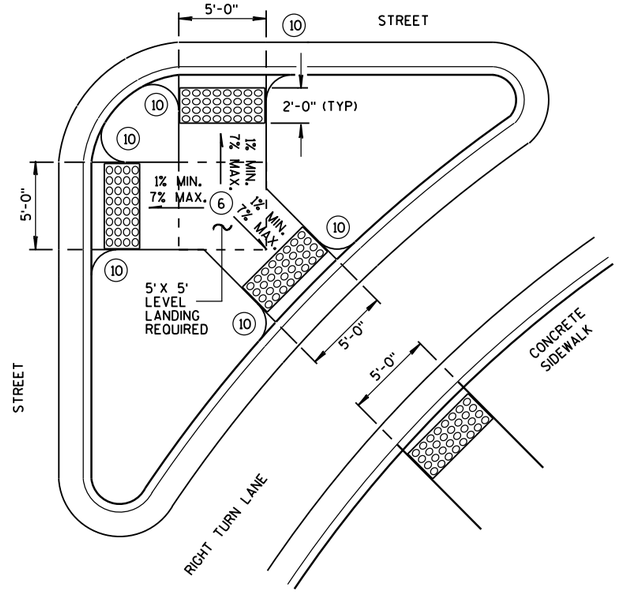
SECTION B-B



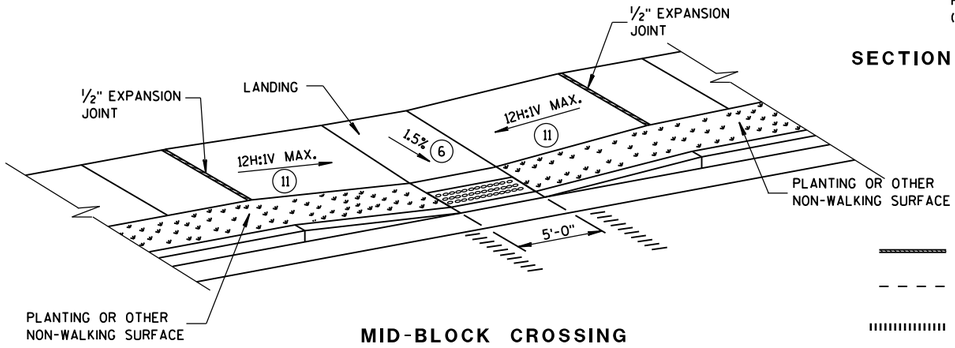
PLAN VIEW

DETECTABLE WARNING FIELD (TYPICAL)

REFER TO GENERAL NOTES (2) AND (3) FOR ALL ISLAND CURB RAMPS



TYPE 6
DETECTABLE WARNING AT ISLANDS



MID-BLOCK CROSSING
TYPE 7B

NOTE: THESE PARALLEL AND PARALLEL/PERPENDICULAR CURB RAMPS MAY BE USED AT INTERSECTIONS AND MID BLOCK LOCATIONS.

LEGEND

- 1/2" EXPANSION JOINT-SIDEWALK
- CONTRACTION JOINT FIELD LOCATED
- PAVEMENT MARKING CROSSWALK (WHITE)

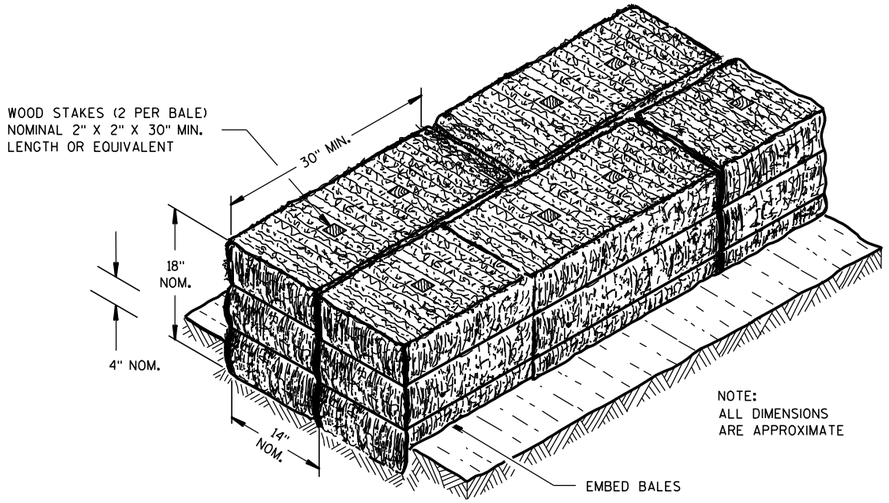
CURB RAMPS
TYPES 5, 6, 7A, 7B & 8

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

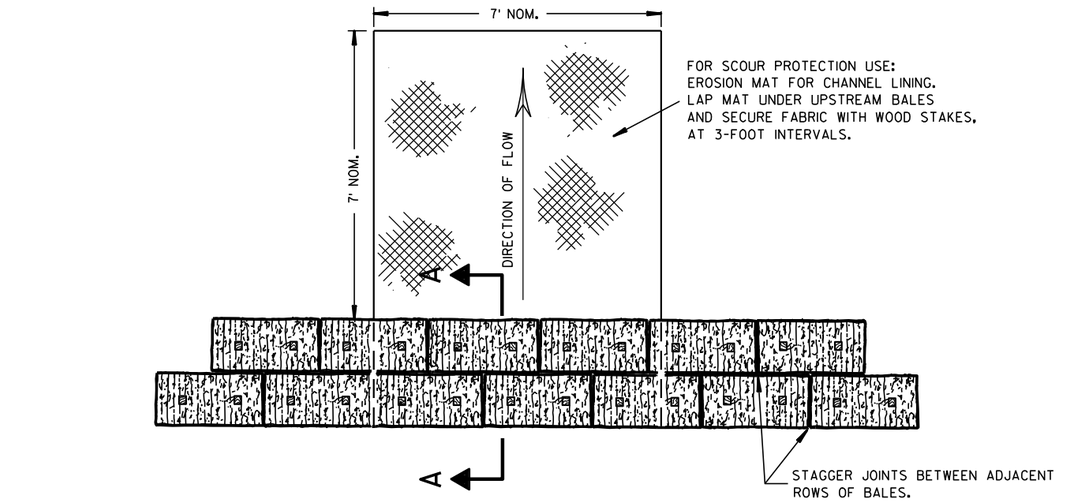
APPROVED
June, 2015 — DATE
/S/ Jerry H. Zogg — ROADWAY STANDARDS ENGINEER
FHWA

6

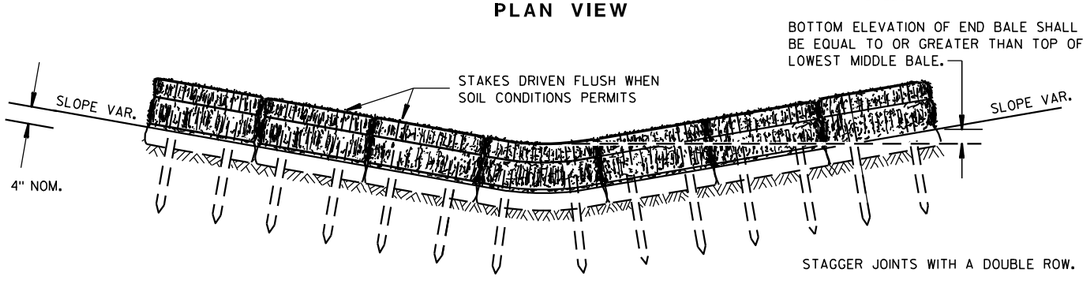
S.D.D. 8 D 5-16e



SECTION A-A



PLAN VIEW



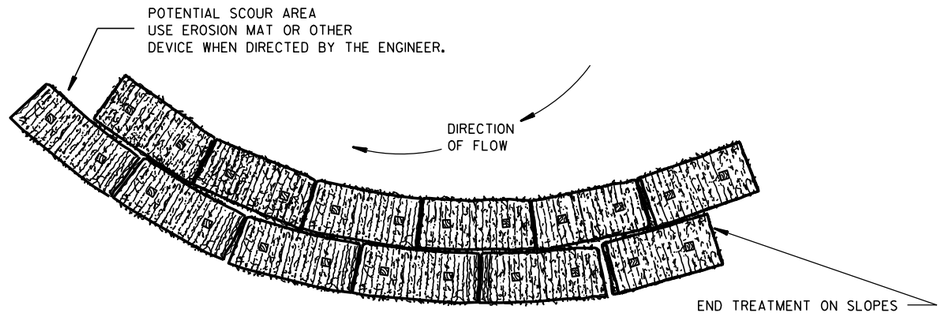
FRONT ELEVATION

TEMPORARY DITCH CHECK USING EROSION BALES ①

GENERAL NOTES

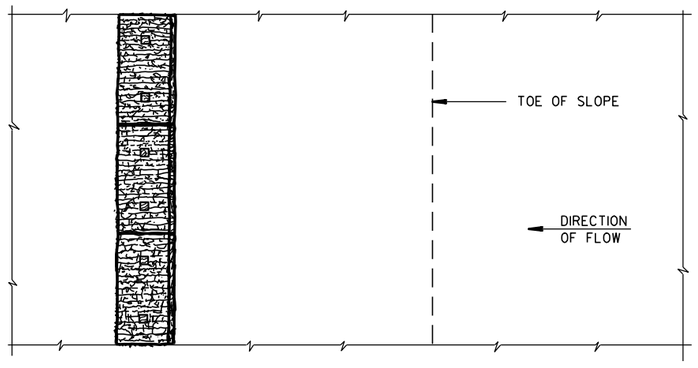
DETAILS OF CONSTRUCTION, MATERIALS AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS AND THE APPLICABLE SPECIAL PROVISIONS.

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.

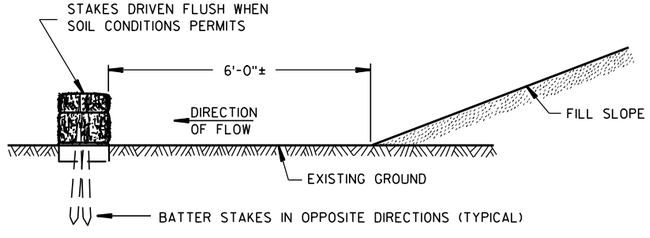


PLAN VIEW

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

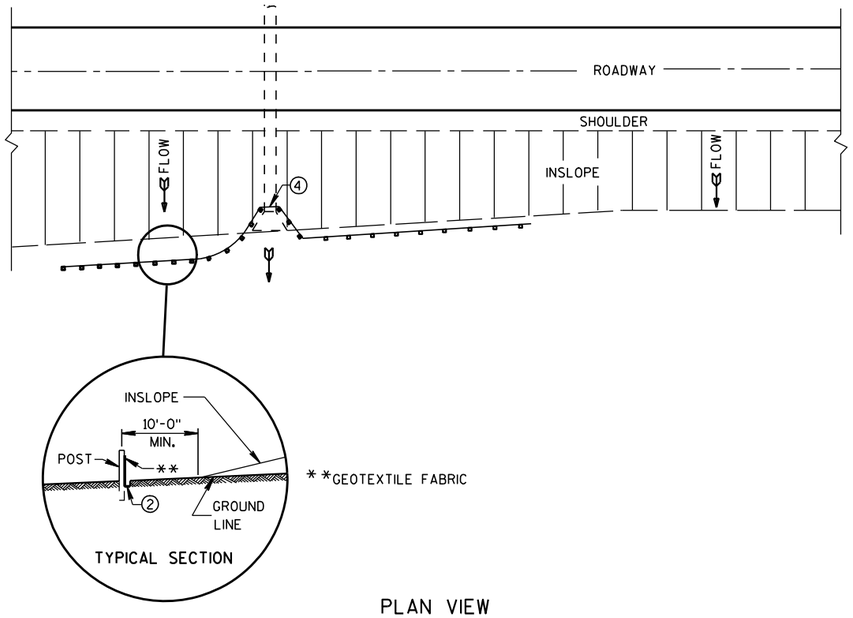
APPROVED
6/04/02 DATE
/S/ Beth Cannestra
CHIEF ROADWAY DEVELOPMENT ENGINEER
FHWA

6

S.D.D. 8 E 8-3

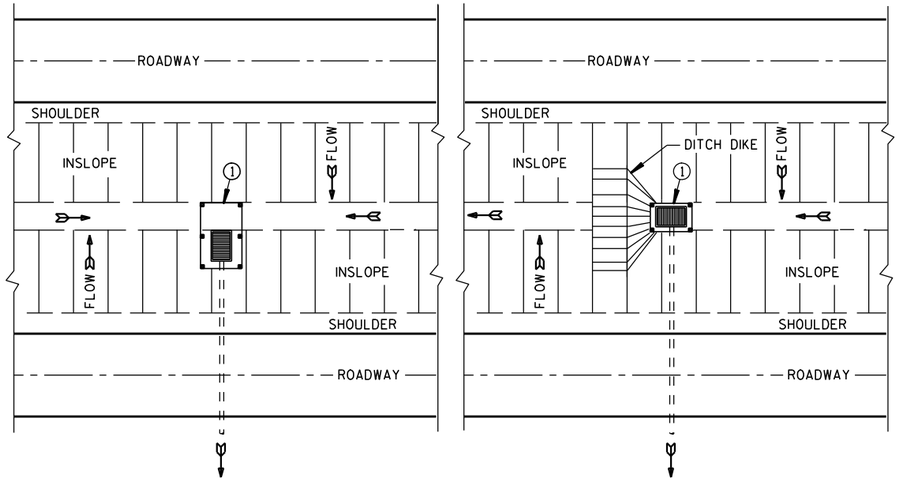
6

S.D.D. 8 E 8-3



PLAN VIEW

TYPICAL APPLICATION OF SILT FENCE



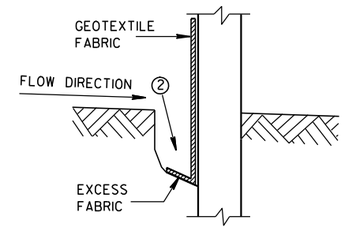
PLAN VIEW

SILT FENCE AT MEDIAN SURFACE DRAINS

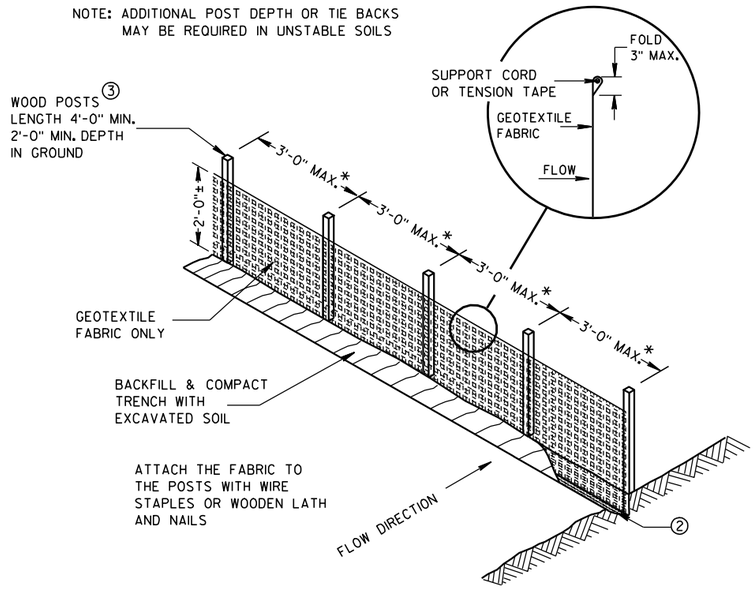
GENERAL NOTES

DETAILS OF CONSTRUCTION NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS AND APPLICABLE SPECIAL PROVISIONS.

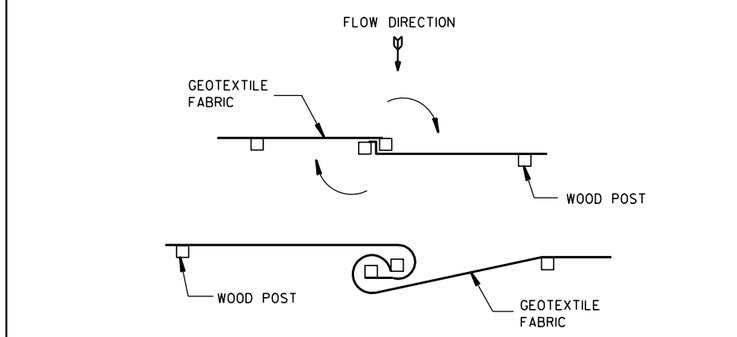
1. HORIZONTAL BRACE REQUIRED WITH 2" X 4" WOODEN FRAME OR EQUIVALENT AT TOP OF POSTS.
2. FOR MANUAL INSTALLATIONS THE TRENCH SHALL BE A MINIMUM OF 4" WIDE & 6" DEEP TO BURY AND ANCHOR THE GEOTEXTILE FABRIC. FOLD MATERIAL TO FIT TRENCH AND BACKFILL & COMPACT TRENCH WITH EXCAVATED SOIL.
3. WOOD POSTS SHALL 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.



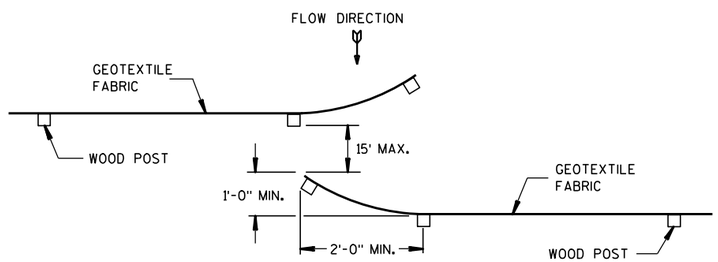
TRENCH DETAIL



SILT FENCE

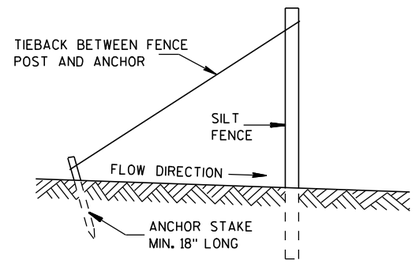


TWIST METHOD



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

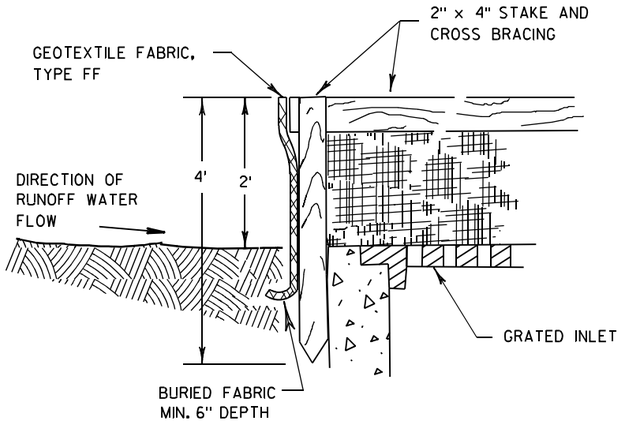
APPROVED
4-29-05 DATE
/S/ Beth Cannestra
CHIEF ROADWAY DEVELOPMENT ENGINEER
FHWA

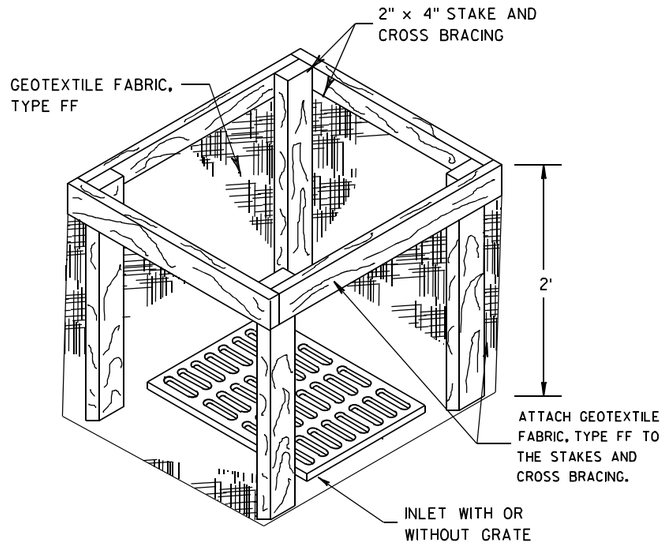
6

S.D.D. 8 E 9-6

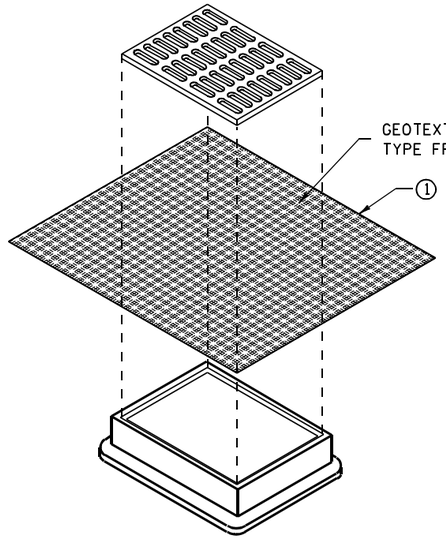
6

S.D.D. 8 E 9-6



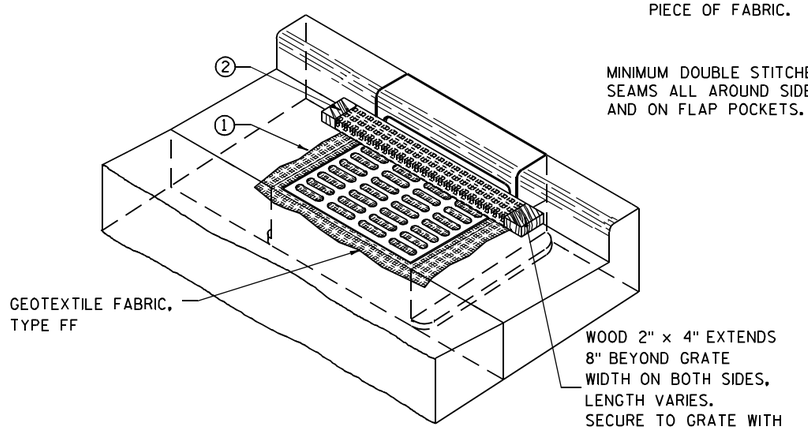


INLET PROTECTION, TYPE A

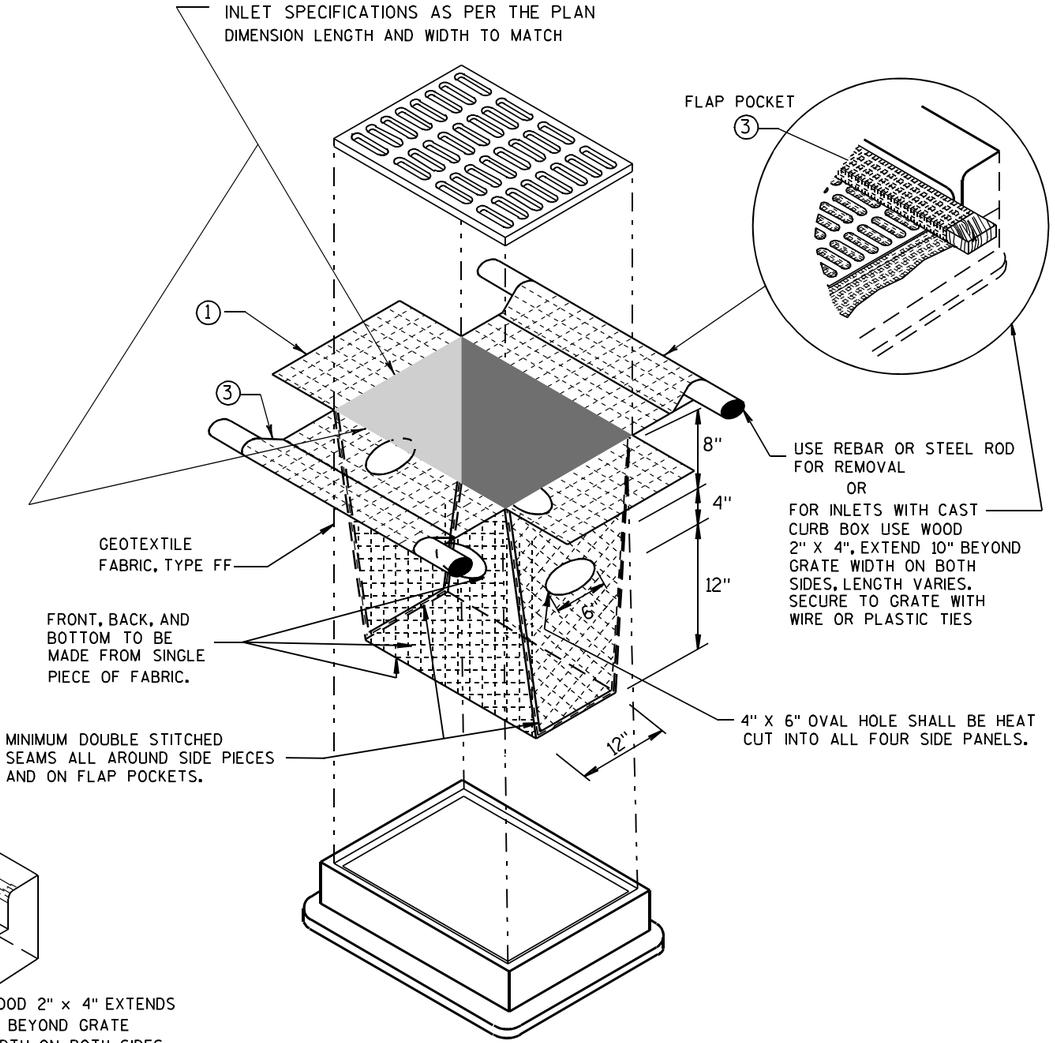


INLET PROTECTION, TYPE B
(WITHOUT CURB BOX)

(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

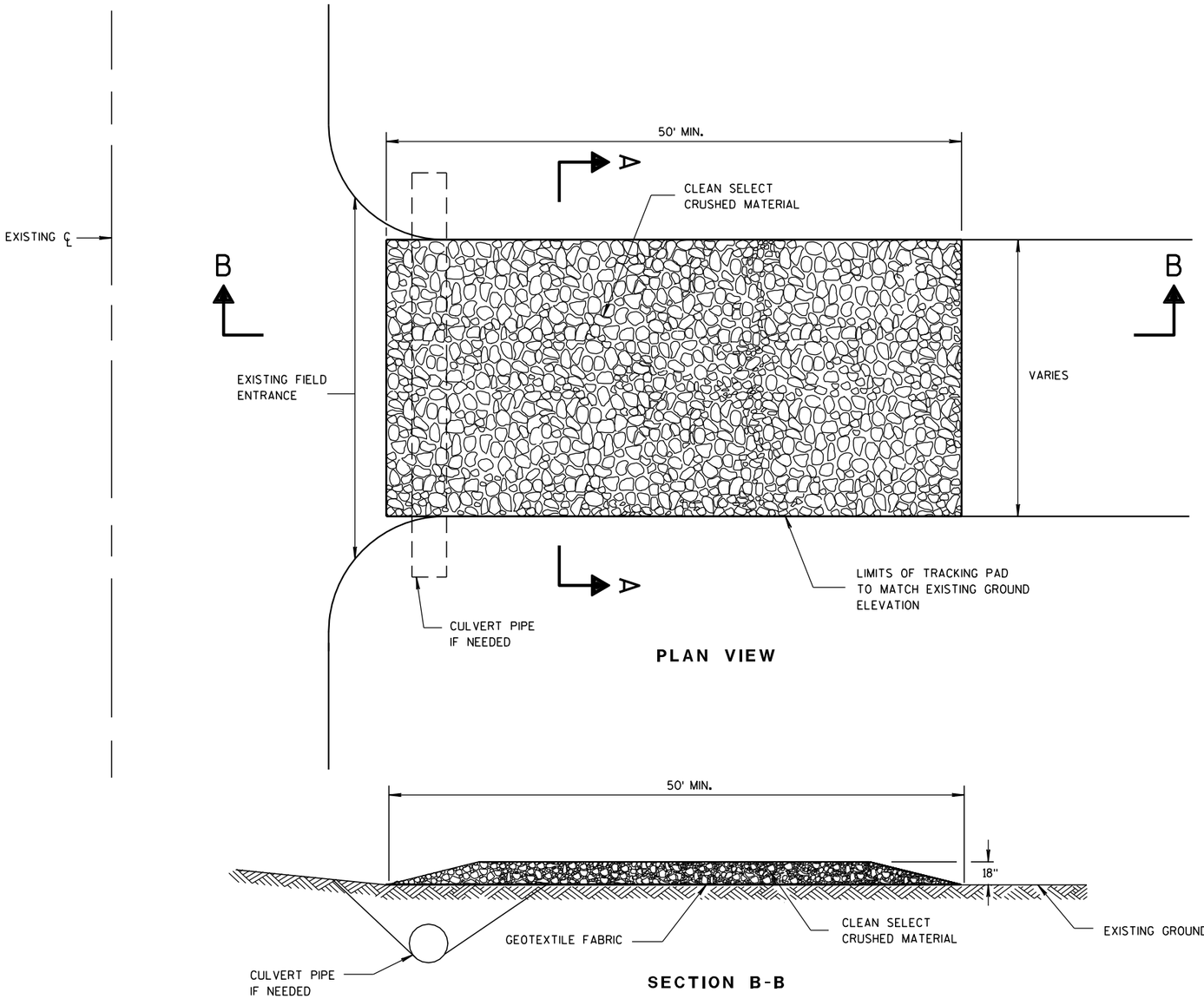
APPROVED

10/16/02
DATE

/S/ Beth Cannestra
CHIEF ROADWAY DEVELOPMENT ENGINEER

FHWA

6
S.D.D. 8 E 10-2



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.

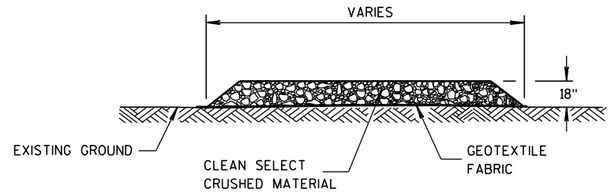
TRACKING PAD TO BE REMOVED AFTER CONSTRUCTION IS COMPLETED.

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

6

S.D.D. 8 E 14-1

TRACKING PAD

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
3/24/2011 DATE
/S/ Jerry H. Zoda
ROADWAY STANDARDS ENGINEER
FHWA

ENT

6

S.D.D. 8 E 14-1

METAL APRON ENDWALLS

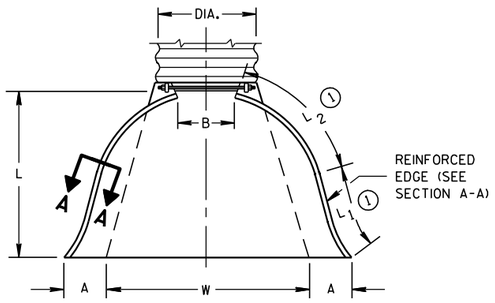
PIPE DIA. (IN.)	MIN. THICK. (Inches) STEEL	MIN. THICK. (Inches) ALUM.	DIMENSIONS (Inches) A (±1")	B (MAX.)	H (±1")	L (±1 1/2")	L1 ①	L2 ①	W (±2")	APPROX. SLOPE	BODY
12	.064	.060	6	6	6	21	12	17 1/2	24	2 1/2 to 1	1 Pc.
15	.064	.060	7	8	6	26	14	21 3/4	30	2 1/2 to 1	1 Pc.
18	.064	.060	8	10	6	31	15	28 1/4	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

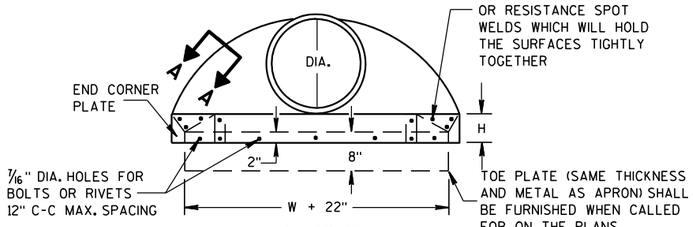
REINFORCED CONCRETE APRON ENDWALLS

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

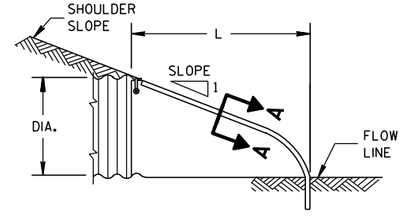
*MINIMUM
**MAXIMUM



PLAN VIEW

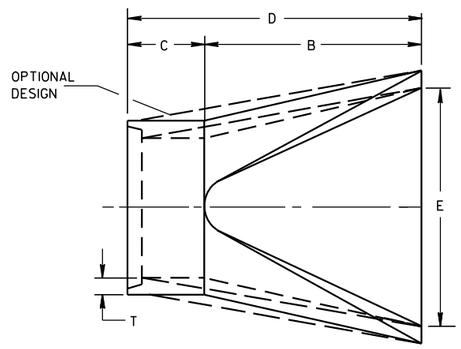


END VIEW

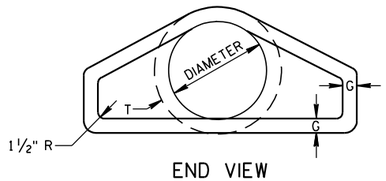


SIDE ELEVATION

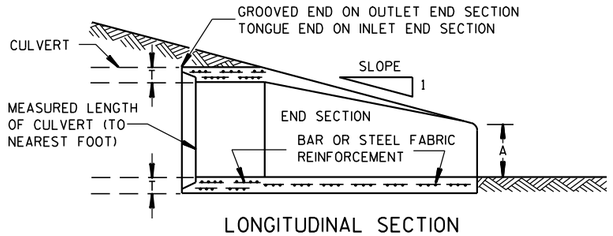
METAL ENDWALLS



PLAN

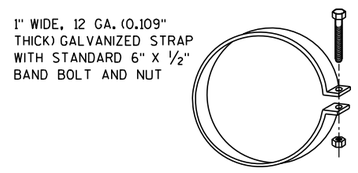


END VIEW



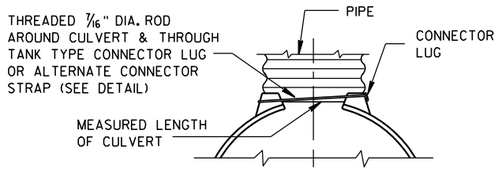
LONGITUDINAL SECTION

CONCRETE ENDWALLS

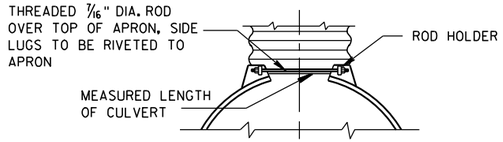


ALTERNATE FOR TYPE 1 CONNECTION

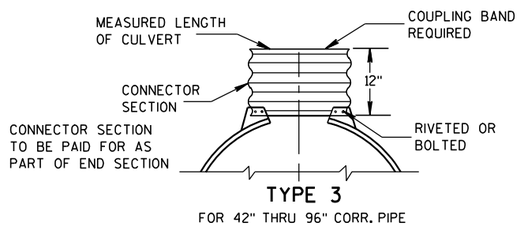
END SECTION CONNECTOR STRAP



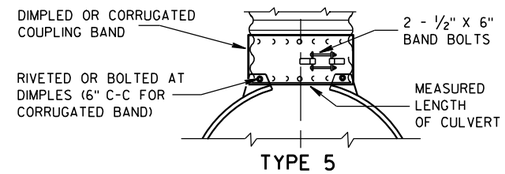
TYPE 1
FOR 12" THRU 24" CORR. PIPE



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

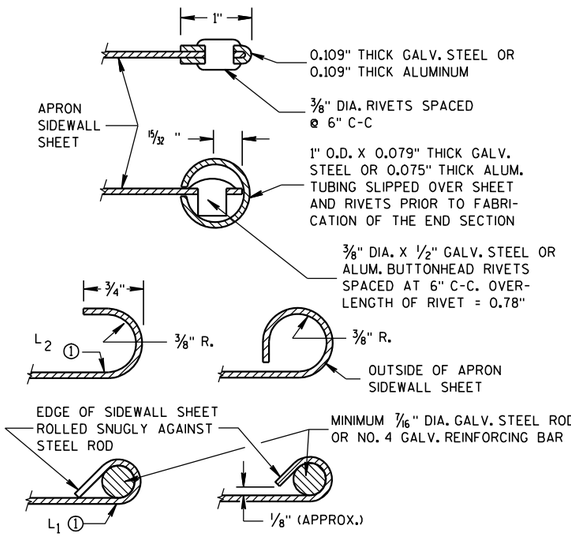
NOTE: DIMPLED BAND FITS OVER OUTSIDE OF ENDWALL. AND CORRUGATED BAND FITS INSIDE ENDWALL. DIMPLED BAND MAY BE USED WITH HELICALLY CORRUGATED PIPE.

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.

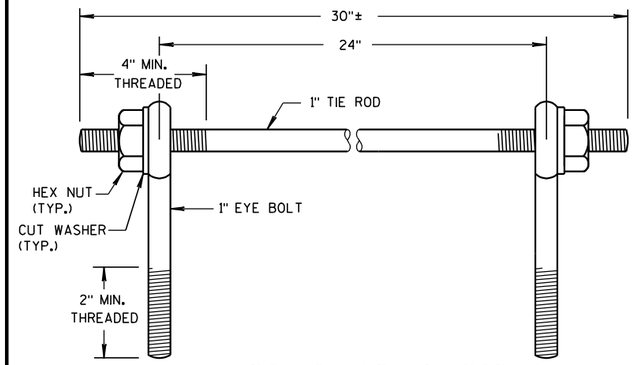
① FOR PIPE SIZES UP TO 60" DIAMETER, A 180° ROLLED EDGE MAY BE USED INSTEAD OF STEEL ROD REINFORCEMENT. SEE SECTION A-A.

APRON ENDWALLS FOR CULVERT PIPE

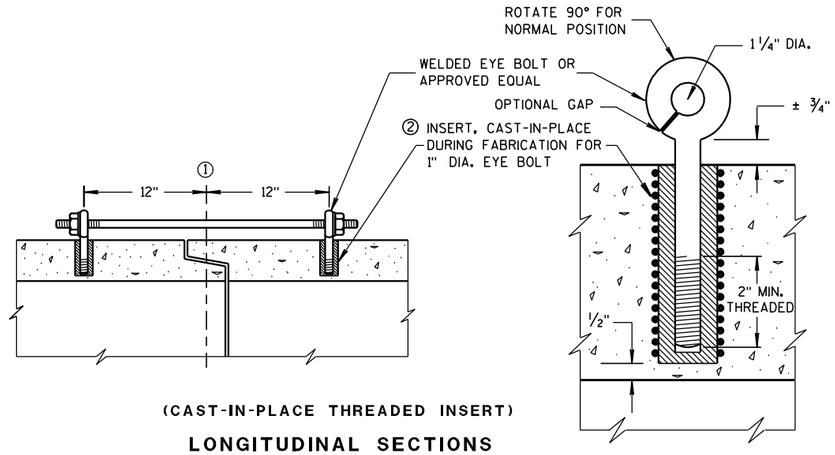
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

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.

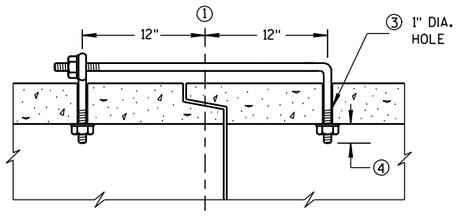
② THE INSIDE OF THE THREADED INSERTS SHALL BE CLEAN TO ALLOW THE INSERTION OF THREADED EYE BOLTS.

③ HOLES SHALL BE CAST-IN-PLACE OR DRILLED 12 INCHES FROM ℄ OF TONGUE AND GROOVE.

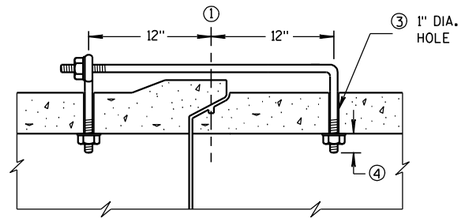
④ BOLT PROJECTION INSIDE OF PIPE SHALL NOT EXCEED 2 INCHES.

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)

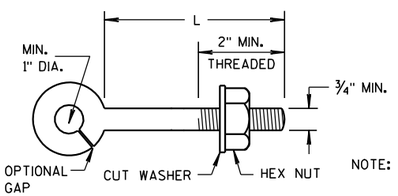


(MODIFIED BELL PIPE)

LONGITUDINAL SECTION

EYE BOLT DIMENSION TABLE

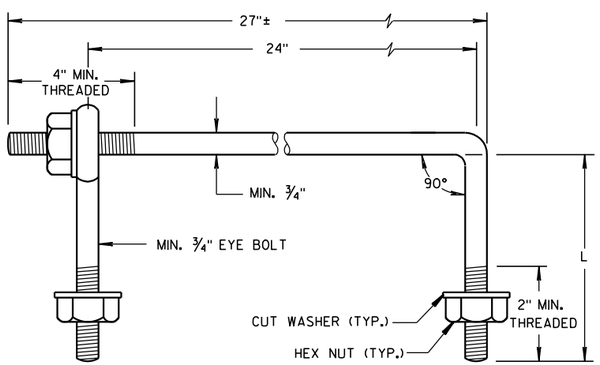
PIPE SIZE	L = LENGTH	
	TONGUE & GROOVE PIPE	MODIFIED BELL PIPE
18" TO 24"	4 1/2"	6 1/4"
30"	5"	7"
36"	5 1/2"	7"
42"	6"	
48"	6 1/2"	
60"	7 1/2"	
66"	8"	



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

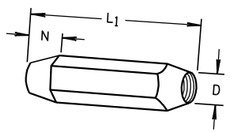
(JOINT TIES FOR 18" TO 66" DIA. CONCRETE PIPE)

EYE BOLT AND TIE ROD ASSEMBLY (ALTERNATE NO. 2)

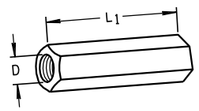
ADJUSTABLE TIE ROD TABLE

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



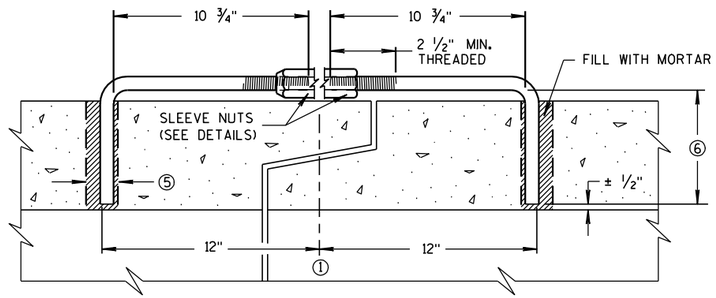
TAPERED



PLAIN

RIGHT AND LEFT THREADS

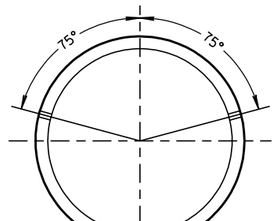
SLEEVE NUTS



LONGITUDINAL SECTION

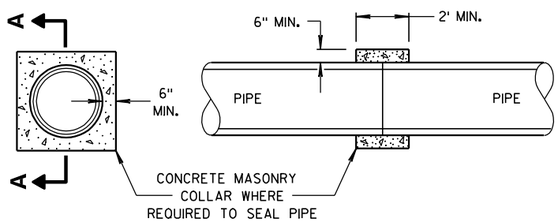
(JOINT TIES FOR 12" TO 108" DIA. CONCRETE PIPE)

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

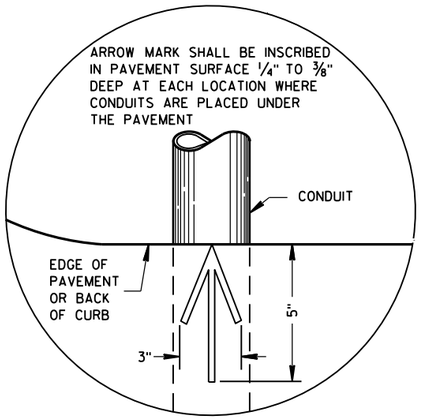
JOINT TIES FOR CONCRETE PIPE AND CONCRETE COLLAR DETAIL

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
6/5/2012 — DATE
/S/ Jerry H. Zogg — ROADWAY STANDARDS ENGINEER
245
FHWA

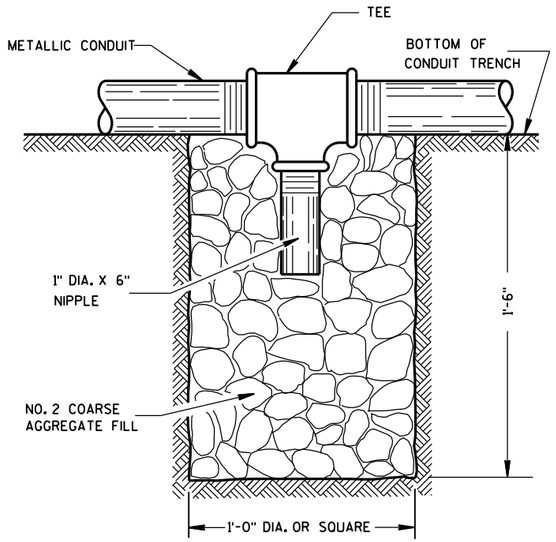
6

S.D.D. 8 F 4-7



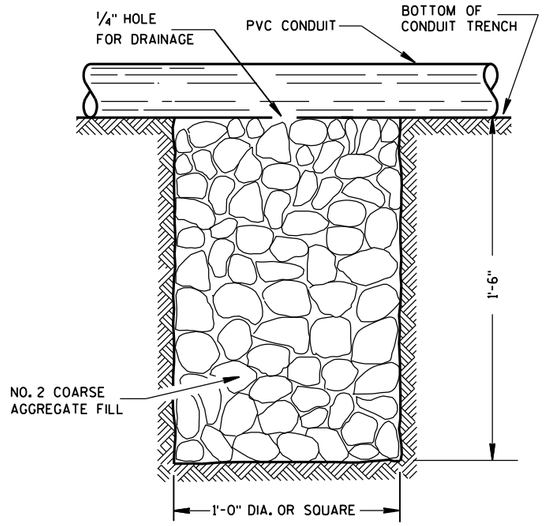
PLAN VIEW

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.

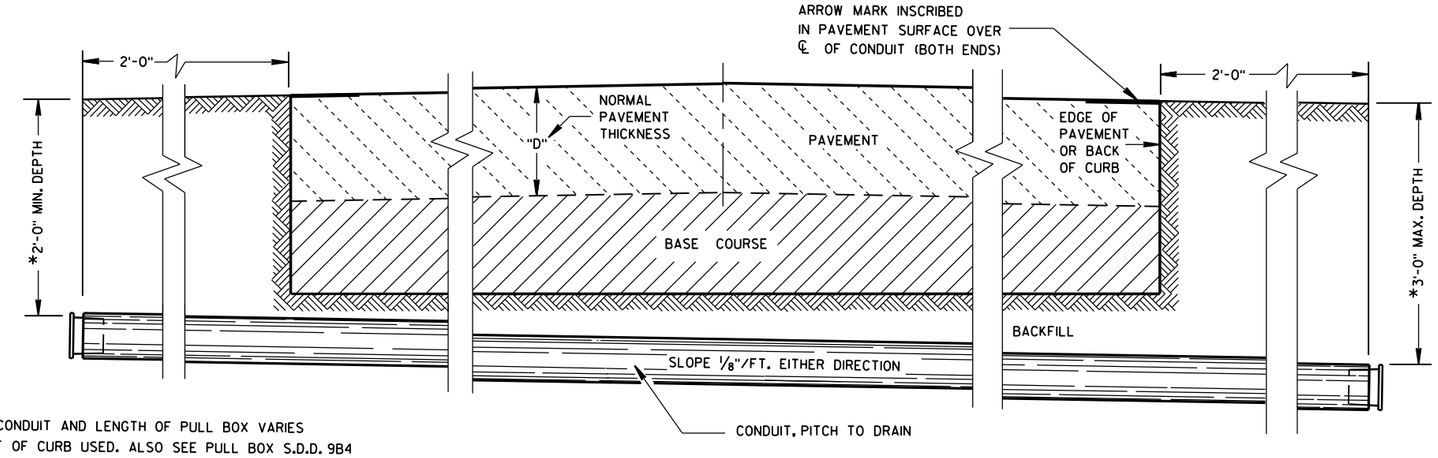
PRIOR TO CONDUIT ACCEPTANCE, CONDUIT CAPS OR PLUGS SHALL BE REMOVED, AND THE CAPS, PLUGS AND CONDUIT ENDS SHALL BE THOROUGHLY CLEANED AND THEN THE CAPS OR PLUGS REINSTALLED TO ENSURE THAT THE CAPS OR PLUGS CAN BE EASILY REMOVED IN THE FUTURE.

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

6

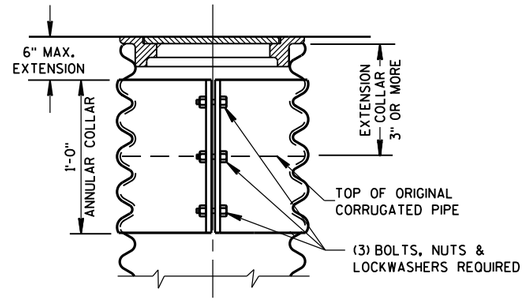
S.D.D. 9 B 2-9

TABLE OF NOMINAL DIMENSIONS AND WEIGHTS

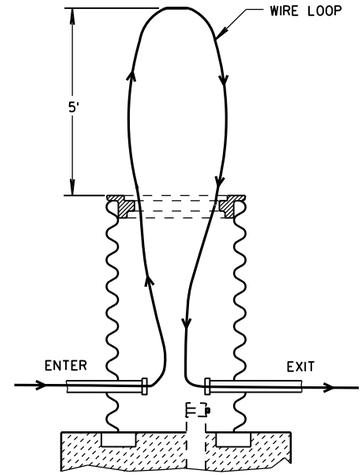
DIMENSION IN INCHES		CORRUGATED STEEL PIPE								
PIPE DIAMETER (INSIDE)	A	12	12	12	18	18	18	24	24	24
PIPE LENGTH **	B	24	30	36	24	30	36	36	42	48
WALL THICKNESS	C	0.064	0.064	0.064	0.064	0.064	0.064	0.064	0.064	0.064
COVER	D	10 1/4	10 1/4	10 1/4	16 1/4	16 1/4	16 1/4	22 1/4	22 1/4	22 1/4
FRAME	E	14 1/2	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.

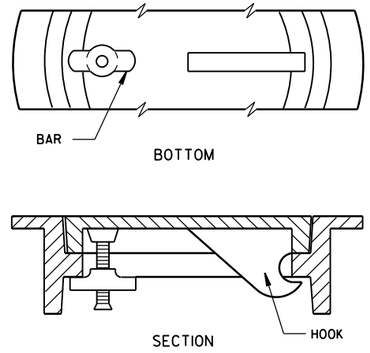
** NORMALLY USED LENGTHS. THE PROJECT ENGINEER SHALL DETERMINE IF PIPE LENGTHS, OTHER THAN THOSE SPECIFIED, SHALL BE USED, TO A MAXIMUM OF 48" (CONTINUOUS LENGTH, NON-SPLICED). THE ADDITIONAL LENGTH SHALL BE INCIDENTAL TO THE PULL BOX BID PRICE.



CORRUGATED PIPE EXTENDER

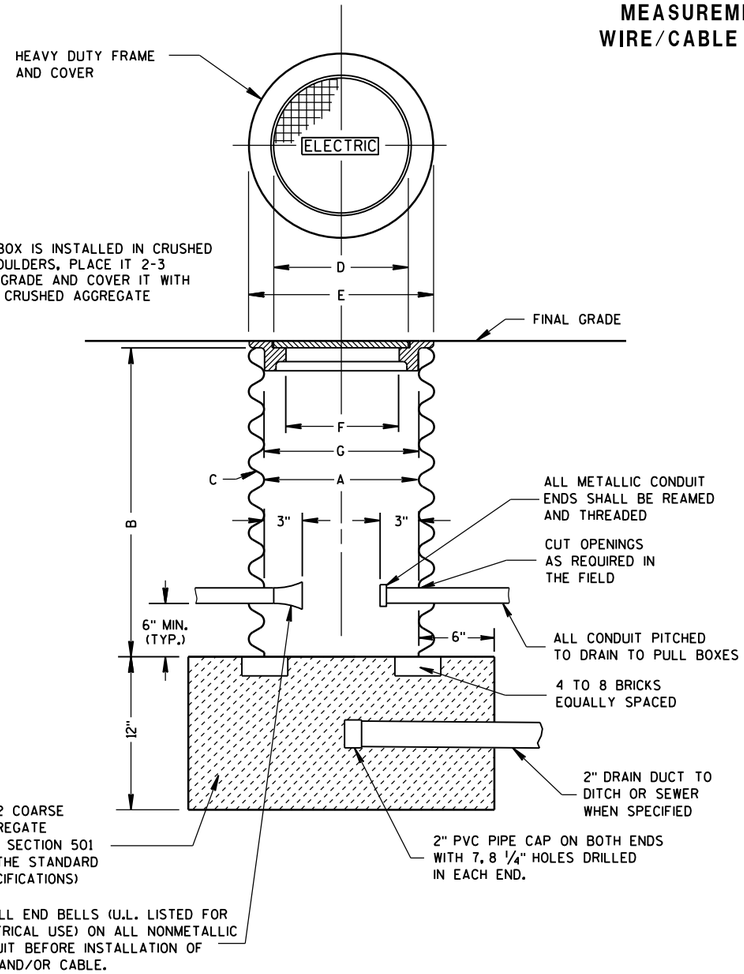


MEASUREMENT DETAIL FOR WIRE/CABLE IN THE PULL BOX



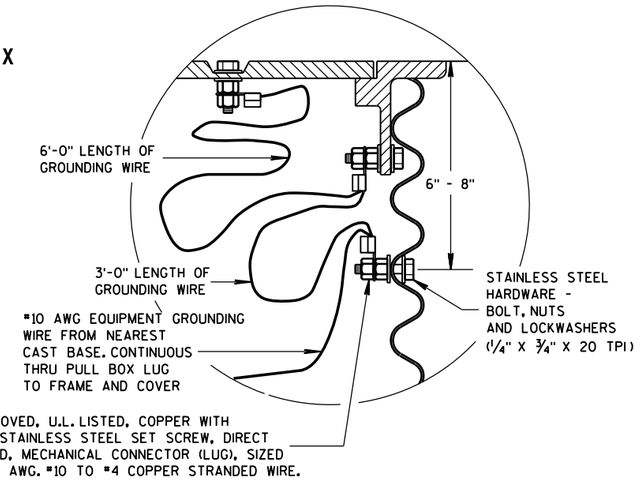
ALTERNATE COVER (LOCKING)

TIGHTENING BAR TYPE

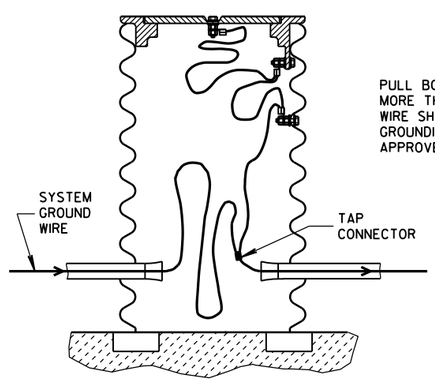


WHEN A PULL BOX IS INSTALLED IN CRUSHED AGGREGATE SHOULDERS, PLACE IT 2-3 INCHES BELOW GRADE AND COVER IT WITH 2-3 INCHES OF CRUSHED AGGREGATE

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.

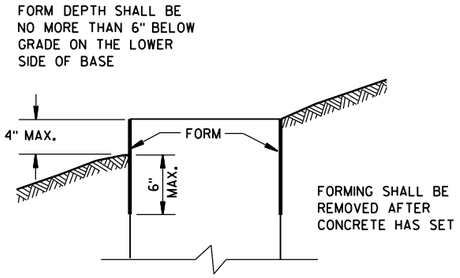
PULL BOX

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
Sept. 2014 — DATE
/S/ Ahmet Demirbilek — STATE ELECTRICAL
FHWA

6

S.D.D. 9 B 4-11



FORMING DETAIL

QUANTITY REQUIREMENTS	CONCRETE BASE TYPE		
	1	2	5 & 6
APPROX. CUBIC YARDS OF CONCRETE	0.40	0.57	0.40
LBS. OF HOOP BAR STEEL	NONE	23	16
LBS. OF VERTICAL BAR STEEL	NONE	60	18

GENERAL NOTES

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

BASES SHALL BE EXCAVATED BY USE OF A CIRCULAR AUGER.

TOP SURFACES OF CONCRETE BASES SHALL BE TROWEL FINISHED SMOOTH AND LEVEL.

CONDUIT SIZES AND LOCATIONS SHALL BE AS SHOWN ON THE PLANS.

THE FINAL OR TERMINATING CONCRETE BASE IN A CONDUIT RUN SHALL HAVE A 6" EXIT STUB INSTALLED FOR FUTURE CABLING USE. THE EXIT STUB SHALL BE SIZED AS USED THROUGHOUT THE CONDUIT RUN AS SHOWN AT THE ENTRANCE OF THE BASE.

MINIMUM BENDING RADIUS OF CONDUIT IS EQUAL TO 6 X THE DIAMETER.

CONDUIT HEIGHT ABOVE CONCRETE BASES SHALL BE 1 INCH. ALL METALLIC CONDUIT ENDS SHALL BE REAMED AND THREADED.

ALL CONDUIT ENDS AT THE TOP OF CONCRETE BASES SHALL BE CAPPED IF METALLIC OR PLUGGED IF NONMETALLIC IMMEDIATELY AFTER PLACEMENT AND BEFORE CONCRETE IS POURED. CONDUITS IN WHICH WIRE OR CABLE IS NOT INSTALLED SHALL REMAIN CAPPED OR PLUGGED.

GENERAL NOTES (CONTINUED)

BELL ENDS SHALL BE INSTALLED ON ALL PVC CONDUIT EXPOSED AT THE TOP OF CONCRETE BASES BEFORE INSTALLATION OF CABLE OR WIRE.

ENDS OF CONDUIT INSTALLED BELOW GRADE FOR FUTURE USE SHALL BE CAPPED IF METALLIC OR PLUGGED IF NONMETALLIC.

WHEN REQUIRED TO CONNECT NONMETALLIC CONDUIT TO METALLIC CONDUIT, ONLY ADAPTER FITTINGS, U.L. LISTED FOR ELECTRICAL USE, SHALL BE USED.

IF A BASE REQUIRES A DEEP FORM BECAUSE OF LOOSE DIRT OR FILL, THE FORM SHALL BE REMOVED BEFORE BACKFILLING AROUND THE BASE. BACKFILL SHALL BE TAMPED TIGHT AGAINST THE BARE CONCRETE BASE IN LAYERS OF 1 FOOT OR LESS.

A NO. 4 AWG, STRANDED COPPER EQUIPMENT GROUNDING CONDUCTOR SHALL BE EXOTHERMICALLY WELDED TO THE EQUIPMENT GROUNDING ELECTRODE (GROUND ROD) FOR TYPE 1, TYPE 2, TYPE 5, AND TYPE 6 BASES.

THE EQUIPMENT GROUNDING CONDUCTOR SHALL BE FURNISHED AND INSTALLED TO ENTER THE BASE OF THE TYPE 2 AND TYPE 5 BASES THROUGH A 1 INCH CONDUIT INSTALLED FOR GROUNDING PURPOSES, LEAVING A 4 FOOT COIL OF WIRE ABOVE THE CONCRETE BASE. THE EQUIPMENT GROUNDING CONDUCTOR SHALL BE NEATLY COILED AND THE COILS TIED TOGETHER.

ANCHOR RODS SHALL BE THREADED 12" IN LENGTH ON EACH END OF THE ROD. ANCHOR RODS SHALL BE MANUFACTURED IN ACCORDANCE WITH SECTION 654.2.1 OF THE STANDARD SPECIFICATIONS.

WASHERS AND LOCK WASHERS ARE REQUIRED ON ALL ANCHOR RODS.

WHEN ANCHOR RODS USING THE ALTERNATE "L" BEND ARE FURNISHED, THE 4" "L" BEND SHALL BE IN ADDITION TO THE SPECIFIED ANCHOR ROD BAR LENGTH. THE "L" BEND END SHALL NOT BE THREADED.

ANCHOR RODS SHALL BE INSTALLED WITH MISALIGNMENTS OF LESS THAN 1:40 FROM VERTICAL.

WELDING OF THE ANCHOR RODS TO THE CAGE IS UNACCEPTABLE. TIE WIRES SHALL BE USED.

BAR STEEL REINFORCEMENT SHALL BE COATED WITH POWDERED EPOXY RESIN IN ACCORDANCE WITH SECTION 505 OF THE STANDARD SPECIFICATIONS (LATEST EDITION).

(1) THE MINIMUM DEPTH OF CONDUIT EXITING THE CONCRETE BASE AND INSTALLED BELOW THE TRAVELED WAY SHALL BE 24 INCHES. THE MINIMUM DEPTH OF CONDUIT EXITING THE CONCRETE BASE THAT IS NOT INSTALLED BELOW THE TRAVELED WAY SHALL BE 18 INCHES. THE MAXIMUM DEPTH OF ALL CONDUIT SHALL BE 36 INCHES EXCEPT WITH WRITTEN APPROVAL BY THE ENGINEER.

(2) (4) 1" DIA. X 3'-6" ANCHOR RODS.

(3) (4) 1" DIA. X 5'-0" ANCHOR RODS.

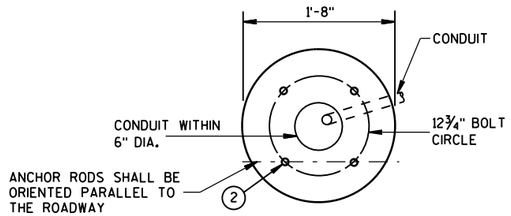
(4) (6) NO. 6 X 6'-8" BAR STEEL REINFORCEMENT.

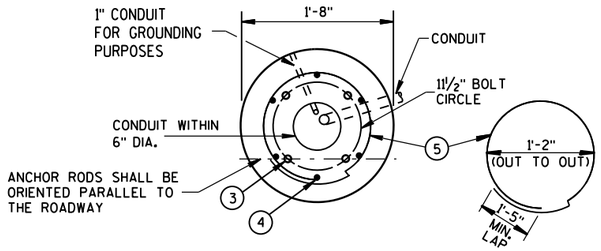
(5) (7) NO. 4 X 5'-1" BAR STEEL REINFORCEMENT @ 1'-0" C-C.

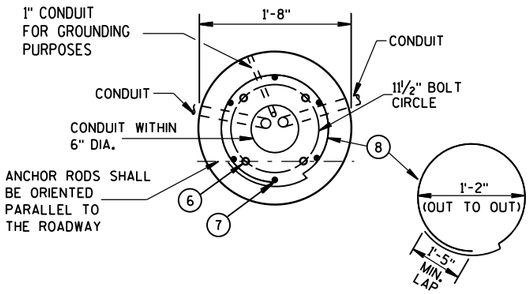
(6) (4) 1" DIA. X 3'-6" ANCHOR RODS.

(7) (6) NO.4 X 4'-8" BAR STEEL REINFORCEMENT.

(8) (5) NO. 4 X 5'-1" BAR STEEL REINFORCEMENT @ 1'-0" C-C.

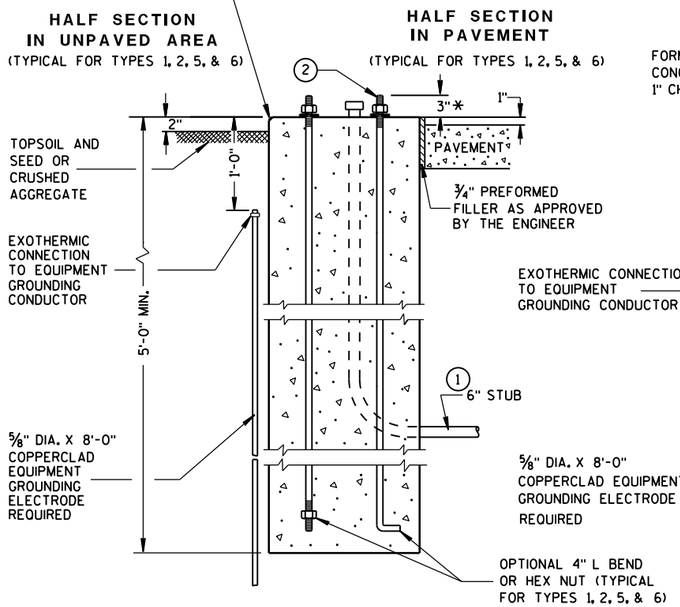






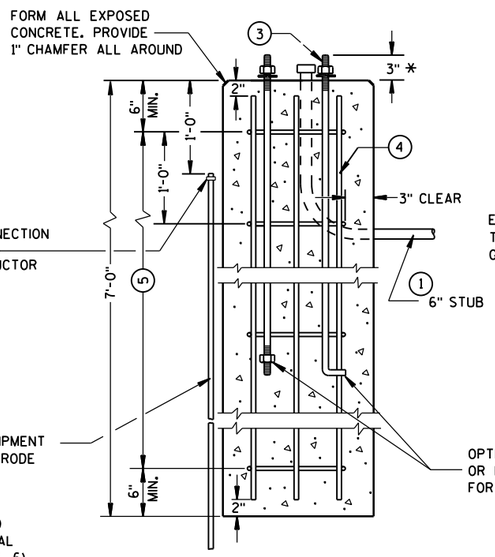
HALF SECTION IN UNPAVED AREA

(TYPICAL FOR TYPES 1, 2, 5, & 6)

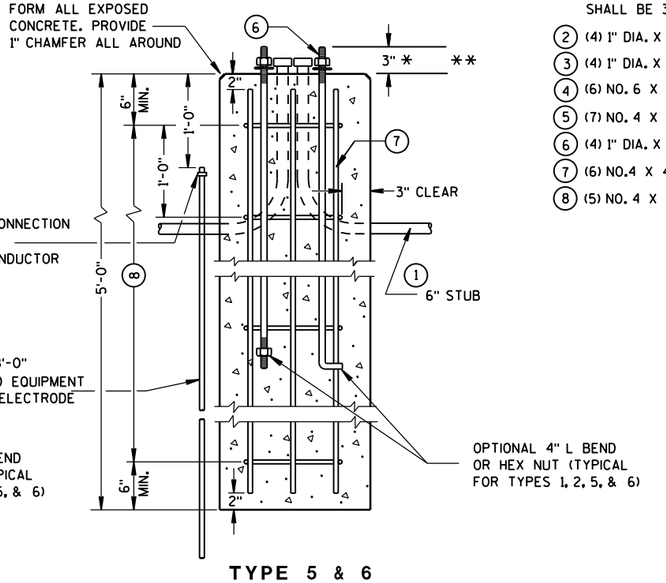


HALF SECTION IN PAVEMENT

(TYPICAL FOR TYPES 1, 2, 5, & 6)



TYPE 2



TYPE 5 & 6

CONCRETE BASES

* ANY ANCHOR ROD PROJECTION SHORTER THAN 2¾" OR LONGER THAN 3¼" SHALL REQUIRE THE BASE TO BE REMOVED AND REPLACED AT THE CONTRACTORS EXPENSE.

** FOR NONBREAKAWAY INSTALLATIONS, 4½" ± ANCHOR ROD PROJECTION WITH THE USE OF LEVELING NUTS. RODENT SCREEN REQUIRED.

CONCRETE BASES, TYPES 1, 2, 5, & 6

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
Sept. 2014 — DATE
/S/ Ahmet Demirbilek — STATE ELECTRICAL
FHWA

6

S.D.D. 9 C 2-7

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.

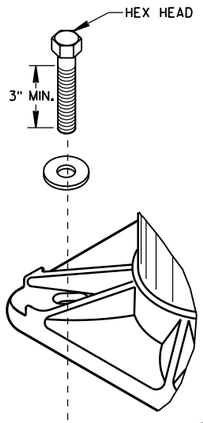
THE MECHANICAL CONNECTOR SHALL BE INSTALLED USING A 1/4" - 20 (TPI) STAINLESS STEEL HEX HEAD BOLT OF SUFFICIENT LENGTH TO FIRMLY ATTACH THE LUG TO THE BASE.

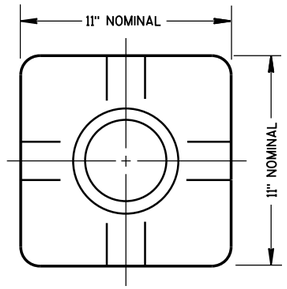
SHOULD THE MANNER OF ATTACHMENT OF THE LUG REQUIRE WASHERS, HEX NUTS, LOCK WASHER - THEY SHALL BE STAINLESS STEEL AS IS THE BOLT. THE MANNER OF ATTACHMENT SHALL NOT BLOCK ACCESSIBILITY TO WIRE PLACEMENT IN THE CONNECTOR.

PEDESTAL BASE COLLAR THREADING SHALL BE TAPERED AND IN ACCORDANCE WITH NATIONAL PIPE THREADING DIMENSIONS.

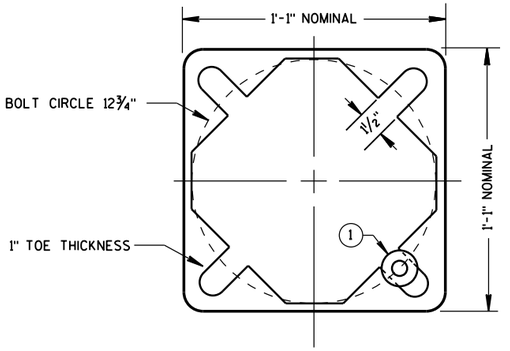
BASE COLLAR THREADING SHALL EXTEND INTO THE BASE COLLAR WITH SUFFICIENT DEPTH TO ACCEPT THE INSTALLATION OF TRAFFIC SIGNAL STANDARDS TO A DEPTH OF 1 1/2", THEN TIGHTENING TO A POINT OF BEING IMMOVABLE.

THE ACCESS DOOR SHALL BE OF THE SAME MATERIAL AS THE BASE.

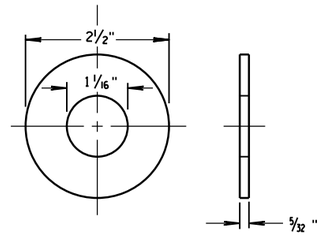




TOP VIEW
(PEDESTAL BASE)

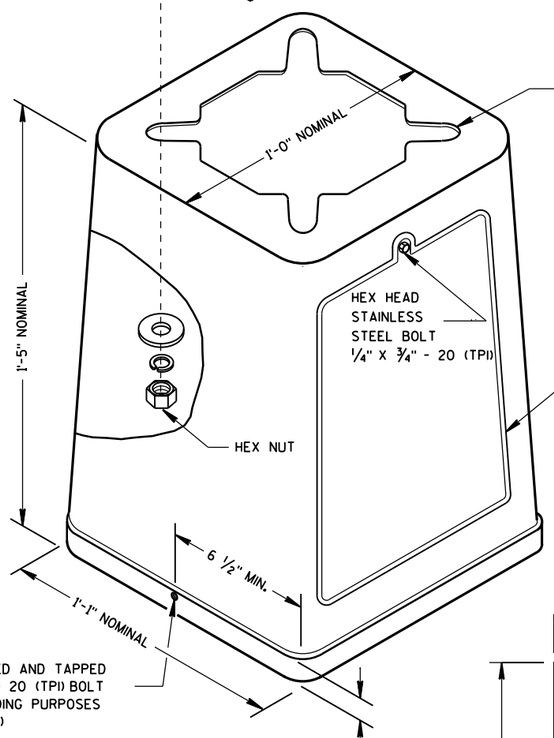


BOTTOM VIEW
(PEDESTAL BASE)

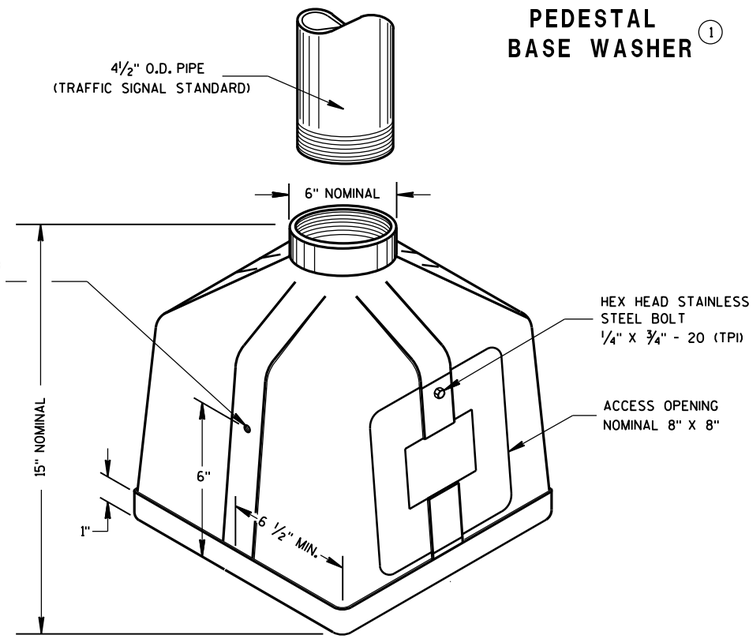


ZINC COATED STEEL WASHER
TO BE PROVIDED BY THE CONTRACTOR

PEDESTAL BASE WASHER (1)

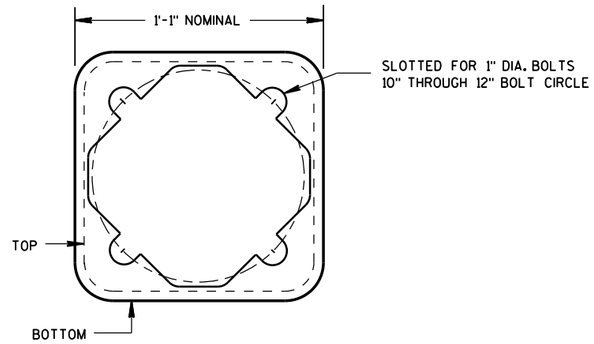


ISOMETRIC VIEW

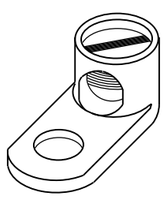


ISOMETRIC VIEW

PEDESTAL BASE



BOTTOM VIEW
(TRANSFORMER BASE)

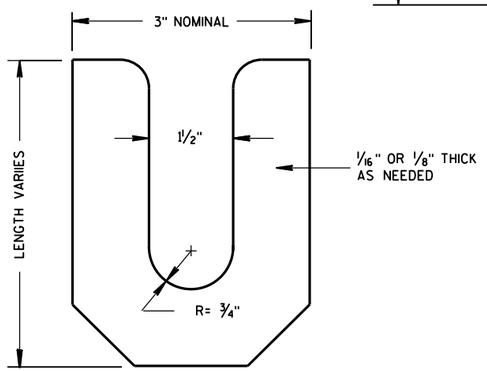


TYPICAL MECHANICAL CONNECTOR LUG

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
FHWA

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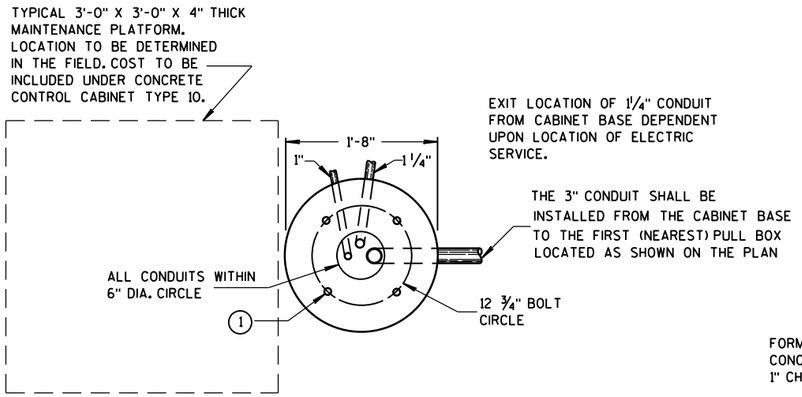
S.D.D. 9 C 3-4

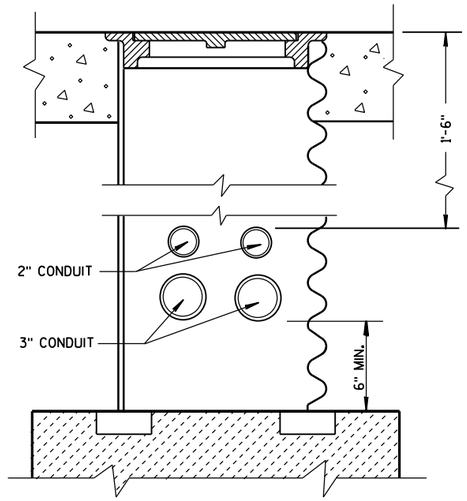
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S.D.D. 9 C 3-4

CONTROL CABINET BASE TYPE	DIMENSIONS				C.Y. CONCRETE (APPROX.)
	H	I	J	K	
TYPE 6 - 30" CABINET	34"	60"	10"	17"	.64
TYPE 7 - 38" CABINET	42"	60"	10"	21"	.93
TYPE 8 - 38" CABINET	42"	72"	12"	21"	1.29
TYPE 9 - VARIABLE	54"	72"	14"	27"	1.56
TYPE 10 - POST MOUNT	AS SHOWN				.65 *

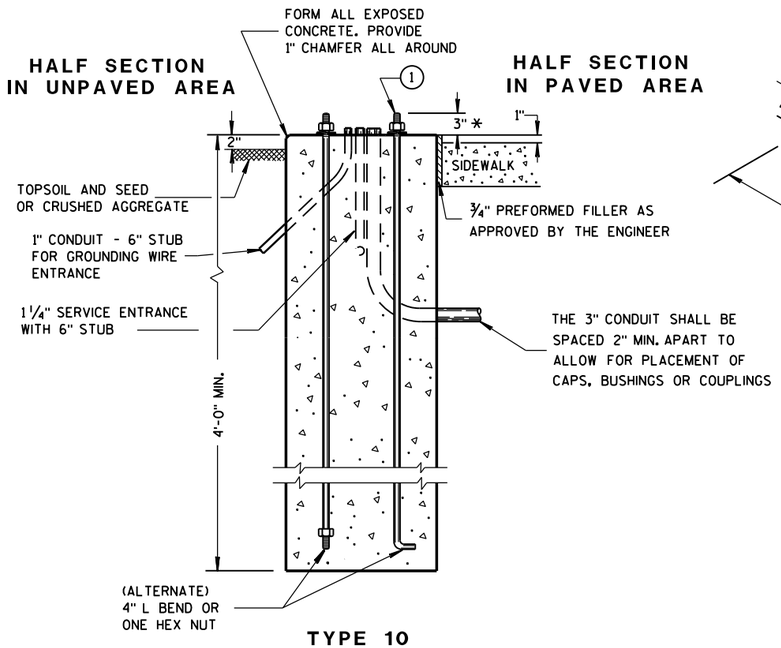
* INCLUDES MAINTENANCE PLATFORM.



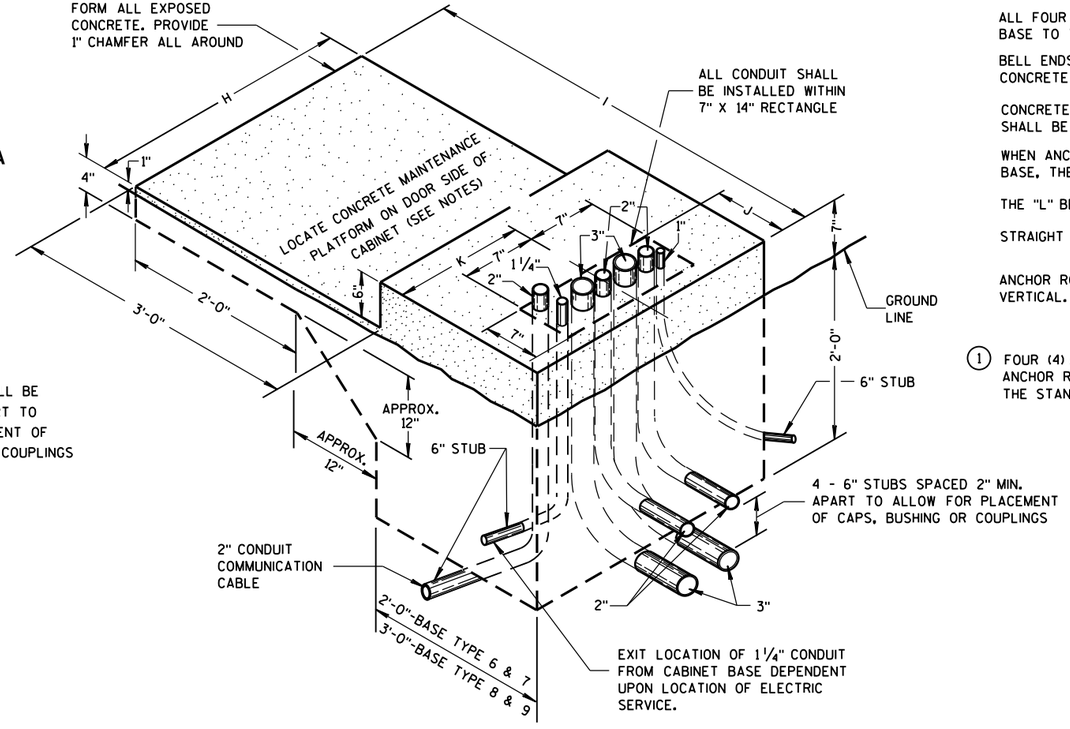


CONDUIT LOCATIONS IN 24" X 36" PULL BOX

(LEADING TO CONTROLLER CABINET BASE TYPE 6, 7, 8 AND 9)



TYPE 10



TYPE 6,7,8 AND 9
(ISOMETRIC VIEW)

* ANY ANCHOR ROD PROJECTION SHORTER THAN 2¾" OR LONGER THAN 3¼" SHALL REQUIRE THE BASE TO BE REMOVED AND REPLACED AT THE CONTRACTORS EXPENSE.

GENERAL NOTES

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

INSTALL FOUR ½ INCH MINIMUM DIAMETER X 4 INCH MINIMUM LENGTH APPROVED CONCRETE MASONRY ANCHORS WITH A PULLOUT STRENGTH OF 9,000 LBS. TO ANCHOR THE CABINET TO TYPE 6, 7, 8, AND 9 BASES. THE ANCHOR STUDS SHALL BE LOCATED AS DIRECTED BY THE ENGINEER TO PROPERLY ANCHOR THE CONTROL CABINET TO THE BASE.

WHEN REQUIRED TO CONNECT NONMETALLIC CONDUIT TO METALLIC CONDUIT, ONLY ADAPTER FITTINGS, U.L. LISTED FOR ELECTRICAL USE, SHALL BE USED.

CONDUIT HEIGHT ABOVE THE CONCRETE BASE SHALL BE 1 INCH.

DEPTH OF CONDUIT INSTALLED BELOW THE TRAVELED WAY SHALL BE 24 INCHES MINIMUM AND 36 INCHES MAXIMUM.

DEPTH OF CONDUIT INSTALLED THAT IS NOT BELOW THE TRAVELED WAY SHALL BE 18 INCHES MINIMUM AND 36 INCHES MAXIMUM.

ANY EXCEPTION TO THE MAXIMUM DEPTH SHALL BE ONLY WITH THE WRITTEN APPROVAL OF THE ENGINEER.

CONTROL CABINET BASE TOP SURFACES SHALL BE TROWEL FINISHED SMOOTH AND LEVEL.

WHEN A TYPE 10 CONTROL CABINET BASE IS USED TO POST MOUNT A CONTROL CABINET, A 36" SQUARE 4" THICK CONCRETE MAINTENANCE PLATFORM SHALL BE REQUIRED ON THE DOOR SIDE OF THE CABINET. THE TOP 1 INCH SHALL BE ABOVE FINISHED GRADE AND BE BROOM FINISHED AND LEVEL.

MAINTENANCE PLATFORMS ARE NOT REQUIRED WHEN THE SURROUNDING AREA IS PAVED.

MINIMUM BENDING RADIUS OF CONDUIT = 6 X THE DIAMETER.

ALL METALLIC CONDUIT ENDS SHALL BE REAMED AND THREADED.

ALL CONDUIT ENDS AT THE TOP OF CONCRETE BASES SHALL BE CAPPED IF METALLIC OR PLUGGED IF NONMETALLIC IMMEDIATELY AFTER PLACEMENT AND BEFORE CONCRETE IS POURED. CONDUITS IN WHICH WIRE OR CABLE IS NOT BEING INSTALLED SHALL REMAIN CAPPED OR PLUGGED.

ALL FOUR (TWO INCH AND THREE INCH) CONDUIT SHALL BE INSTALLED FROM THE CABINET BASE TO THE FIRST (NEAREST PULL BOX LOCATED AS SHOWN ON THE PLANS.

BELL ENDS SHALL BE INSTALLED ON ALL PVC CONDUIT EXPOSED AT THE TOP OF THE CONCRETE BASE BEFORE INSTALLATION OF CABLE OR WIRE.

CONCRETE FORM DEPTH BELOW FINISHED GRADE SHALL BE 6" MAXIMUM. CONCRETE FORMS SHALL BE REMOVED AFTER CONCRETE HAS SET.

WHEN ANCHOR RODS USING THE ALTERNATE L BEND ARE FURNISHED FOR THE TYPE 10 BASE, THE 4" L BEND SHALL BE IN ADDITION TO THE SPECIFIED ANCHOR ROD BAR LENGTH.

THE "L" BEND SHALL NOT BE THREADED.

STRAIGHT ANCHOR RODS SHALL BE THREADED 12" IN LENGTH ON EACH END OF THE ROD.

ANCHOR RODS SHALL BE INSTALLED WITH MISALIGNMENTS OF LESS THAN 1:40 FROM VERTICAL.

(1) FOUR (4) ANCHOR RODS, 1" DIA. X 3'-6". ANCHOR RODS SHALL BE MANUFACTURED IN ACCORDANCE WITH SECTION 654.2.1 OF THE STANDARD SPECIFICATIONS.

CONCRETE CONTROL CABINET BASES

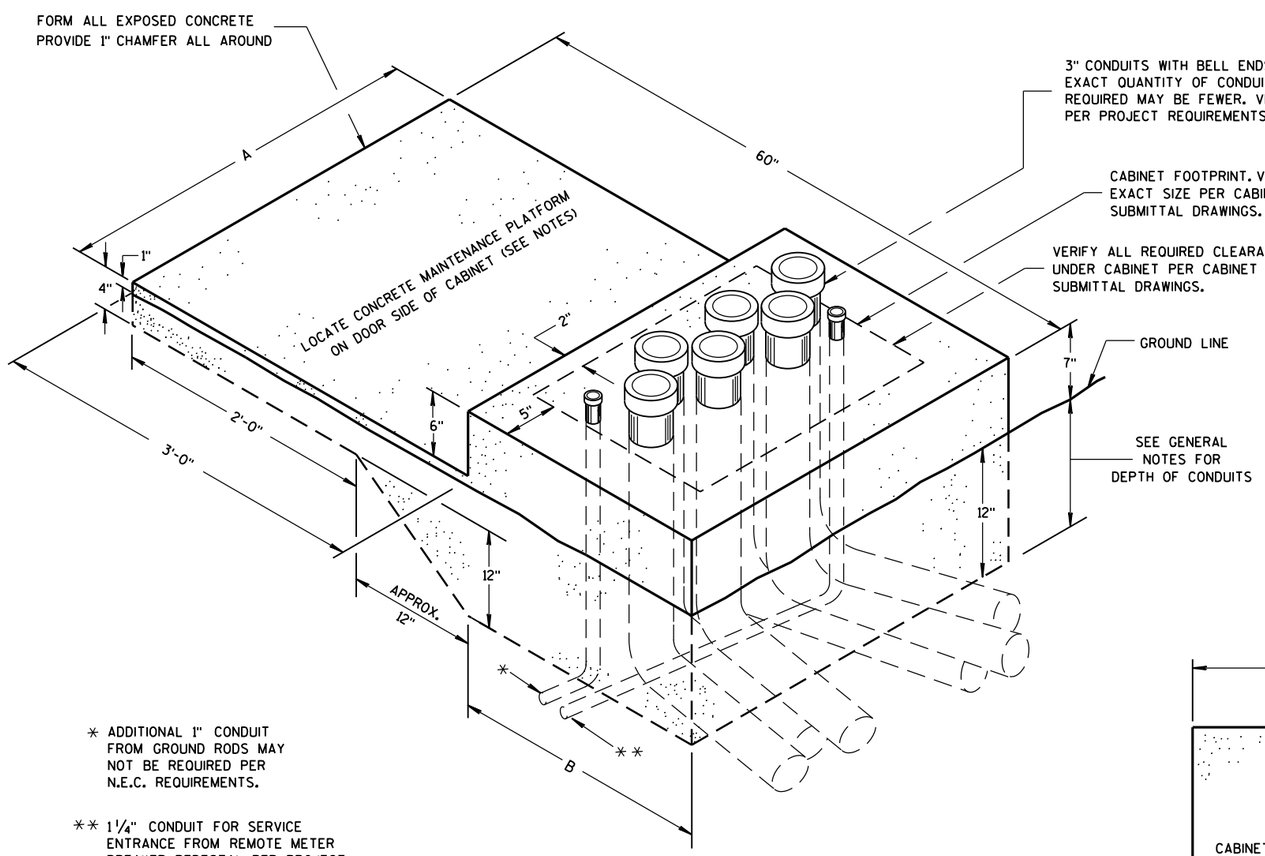
CONCRETE CONTROL CABINET BASES

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
Sept. 2014 — DATE
/S/ Ahmet Demirbilek — STATE ELECTRICAL
FHWA

6

S.D.D. 9 C 5-9



* ADDITIONAL 1" CONDUIT FROM GROUND RODS MAY NOT BE REQUIRED PER N.E.C. REQUIREMENTS.

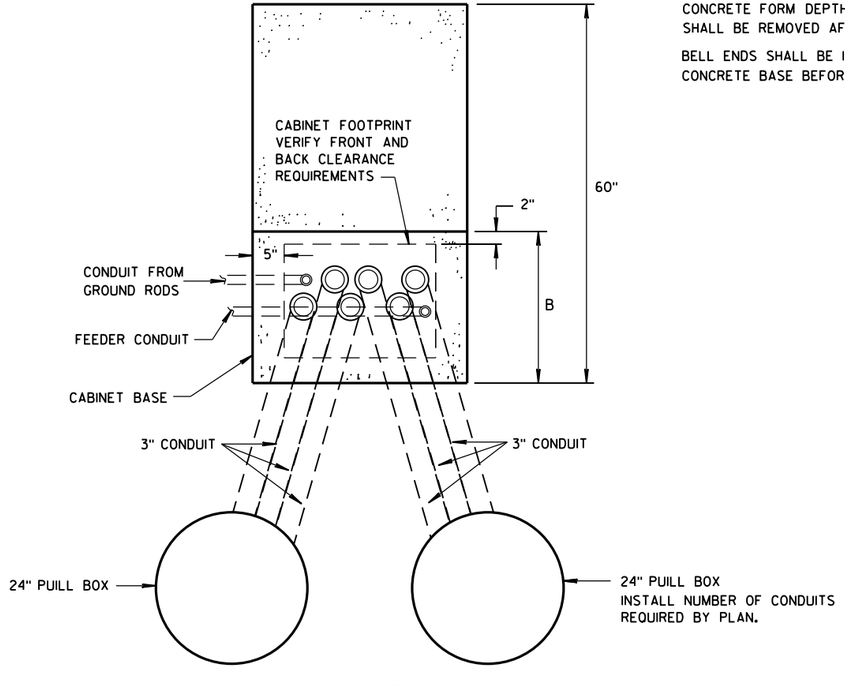
** 1¼" CONDUIT FOR SERVICE ENTRANCE FROM REMOTE METER BREAKER PEDESTAL PER PROJECT REQUIREMENTS. VERIFY LOCATION OF CONDUIT DEPENDENT UPON LOCATION OF INCOMING FEEDER AND FOR EASE OF CONNECTION TO LOAD CENTER.

ISOMETRIC VIEW

CONCRETE CONTROL CABINET BASE, TYPE L

(C.Y. CONCRETE = APPROX. 0.4)

CONCRETE BASE TYPE	CABINET WIDTH	DIMENSIONS		MAXIMUM 3" CONDUITS
		A	B	
L24	24"	34"	24"	4
L30	30"	40"	24"	6



PLAN VIEW

CONCRETE CONTROL CABINET BASE, TYPE L

GENERAL NOTES

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

INSTALL FOUR STAINLESS STEEL APPROVED CONCRETE MASONRY ANCHORS TO ANCHOR THE CABINET BASES. THE ANCHORS SHALL BE LOCATED AS DIRECTED BY THE ENGINEER TO PROPERLY ANCHOR THE CONTROL CABINET TO THE BASE.

WHEN REQUIRED TO CONNECT NONMETALLIC CONDUIT TO METALLIC CONDUIT, ONLY ADAPTER FITTINGS, U.L. LISTED FOR ELECTRICAL USE, SHALL BE USED.

CONDUIT HEIGHT ABOVE THE CONCRETE BASE SHALL BE 1 INCH.

DEPTH OF CONDUIT INSTALLED BELOW THE TRAVELED WAY SHALL BE 24 INCHES MINIMUM AND 36 INCHES MAXIMUM.

DEPTH OF CONDUIT INSTALLED THAT IS NOT BELOW THE TRAVELED WAY SHALL BE 18 INCHES MINIMUM AND 36 INCHES MAXIMUM.

ANY EXCEPTION TO THE MAXIMUM DEPTH SHALL BE ONLY WITH THE WRITTEN APPROVAL OF THE ENGINEER.

CONTROL CABINET BASE TOP SURFACE SHALL BE TROWEL FINISHED SMOOTH AND LEVEL.

MAINTENANCE PLATFORM SHALL BE FLOAT OR BROOM FINISHED AND BE LEVEL.

MAINTENANCE PLATFORMS ARE NOT REQUIRED WHEN THE SURROUNDING AREA IS PAVED.

MINIMUM BENDING RADIUS OF CONDUIT = 6 X THE DIAMETER.

ALL METALLIC CONDUIT ENDS SHALL BE REAMED AND THREADED.

CAP ALL BELOW GRADE METALLIC CONDUIT ENDS IN WHICH WIRE OR CABLE IS NOT BEING INSTALLED.

PLUG ALL BELOW GRADE NONMETALLIC CONDUIT ENDS IN WHICH WIRE OR CABLE IS NOT BEING INSTALLED.

ALL CONDUIT ENDS AT THE TOP OF CONCRETE BASES SHALL BE CAPPED IF METALLIC OR PLUGGED IF NONMETALLIC IMMEDIATELY AFTER PLACEMENT AND BEFORE CONCRETE IS POURED. CONDUITS IN WHICH WIRE OR CABLE IS NOT BEING INSTALLED SHALL REMAIN CAPPED OR PLUGGED.

CONDUIT EXITING THE CONCRETE BASE SHALL TERMINATE IN PULL BOXES AS SHOWN ON THE PLANS.

CONCRETE FORM DEPTH BELOW FINISHED GRADE SHALL BE 6" MAXIMUM. CONCRETE FORMS SHALL BE REMOVED AFTER CONCRETE HAS SET.

BELL ENDS SHALL BE INSTALLED ON ALL PVC CONDUIT EXPOSED AT THE TOP OF THE CONCRETE BASE BEFORE INSTALLATION OF CABLE OR WIRE.

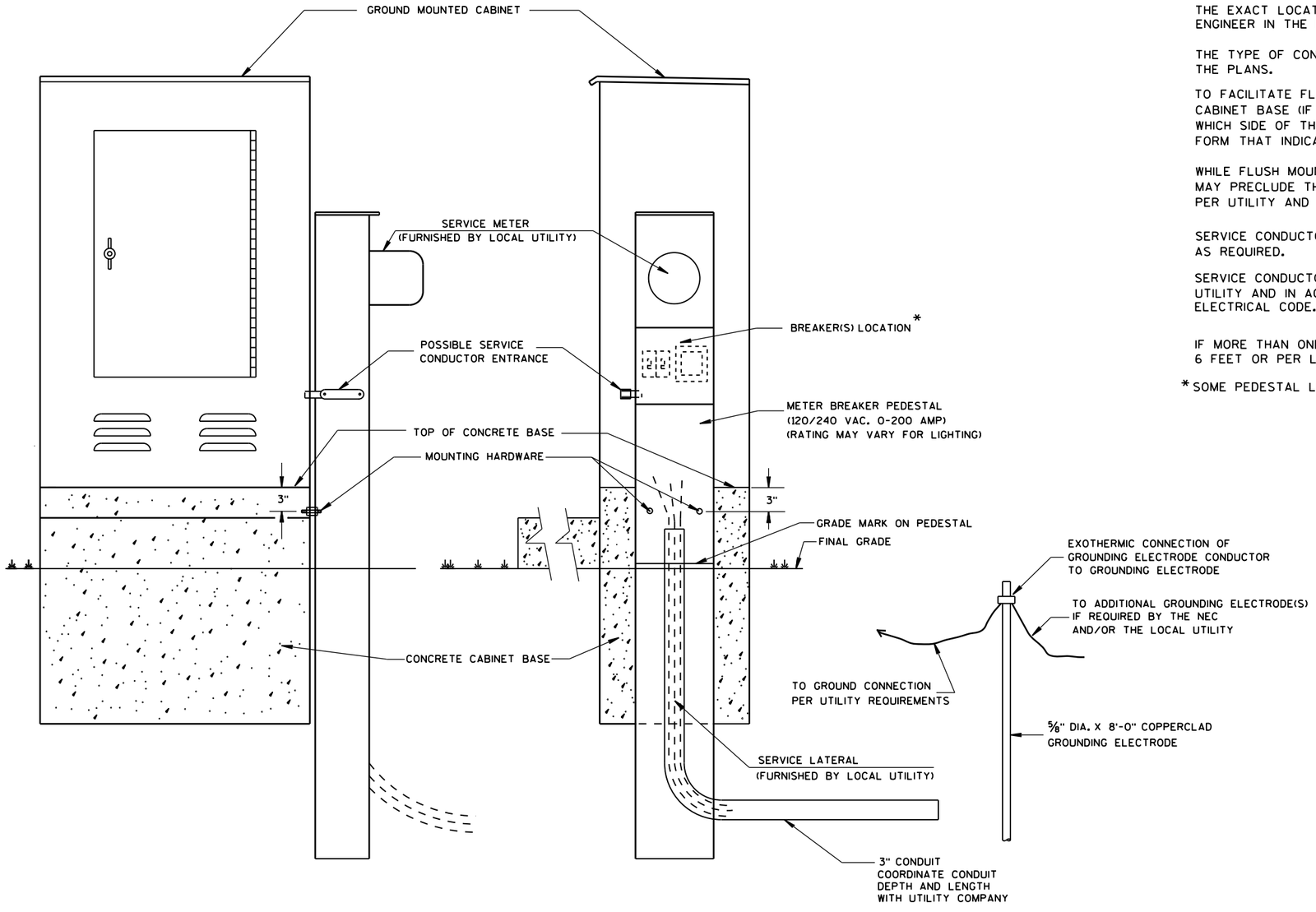
CONCRETE CONTROL CABINET BASE, TYPE L

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
Nov. 2014 — DATE
/S/ Thomas Gonring — STATE LIGHTING ENGINE
WYS
FHWA

6

S.D.D. 9 C 14-2



TYPICAL CABINET SERVICE INSTALLATION

GENERAL NOTES

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

THE EXACT LOCATION OF THE METER BREAKER PEDESTAL SHALL BE DETERMINED BY THE ENGINEER IN THE FIELD.

THE TYPE OF CONCRETE CABINET BASE TO BE INSTALLED SHALL BE AS CALLED FOR IN THE PLANS.

TO FACILITATE FLUSH MOUNTING OF THE METER BREAKER PEDESTAL AGAINST THE SIDE OF THE CABINET BASE (IF FLUSH MOUNTING POSSIBLE. CONFER WITH THE LOCAL UTILITY TO DETERMINE WHICH SIDE OF THE CONCRETE BASE THE ELECTRICAL SERVICE LATERAL WILL APPROACH. THEN FORM THAT INDICATED SIDE FOR FULL SIDE DEPTH.

WHILE FLUSH MOUNTING IS THE MOST DESIRABLE MOUNTING CONFIGURATION UTILITY REQUIREMENTS MAY PRECLUDE THIS OPTION. CONTRACTOR MUST PROVIDE UTILITY APPROVED PEDESTAL AND INSTALL PER UTILITY AND MANUFACTURERS REQUIREMENTS.

SERVICE CONDUCTOR ENTRANCES SHALL BE RIGID METALLIC CONDUIT, NIPPLES AND/OR CONDULETS AS REQUIRED.

SERVICE CONDUCTOR ENTRANCES SHALL BE SIZED AND LOCATED AS REQUIRED BY THE LOCAL UTILITY AND IN ACCORDANCE WITH APPROPRIATE ARTICLES OF THE LATEST ACCEPTED NATIONAL ELECTRICAL CODE.

IF MORE THAN ONE GROUNDING ELECTRODE IS REQUIRED, THE DISTANCE APART SHALL BE 6 FEET OR PER LOCAL UTILITY REGULATIONS.

* SOME PEDESTAL LIGHTING PLANS SHOW MAIN LUGS ONLY.

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S.D.D. 9 D 1-5

6

S.D.D. 9 D 1-5

CABINET SERVICE INSTALLATION (METER BREAKER PEDESTAL)

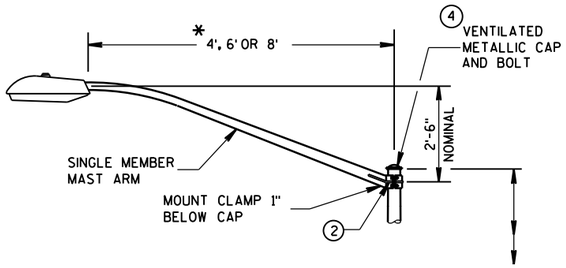
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

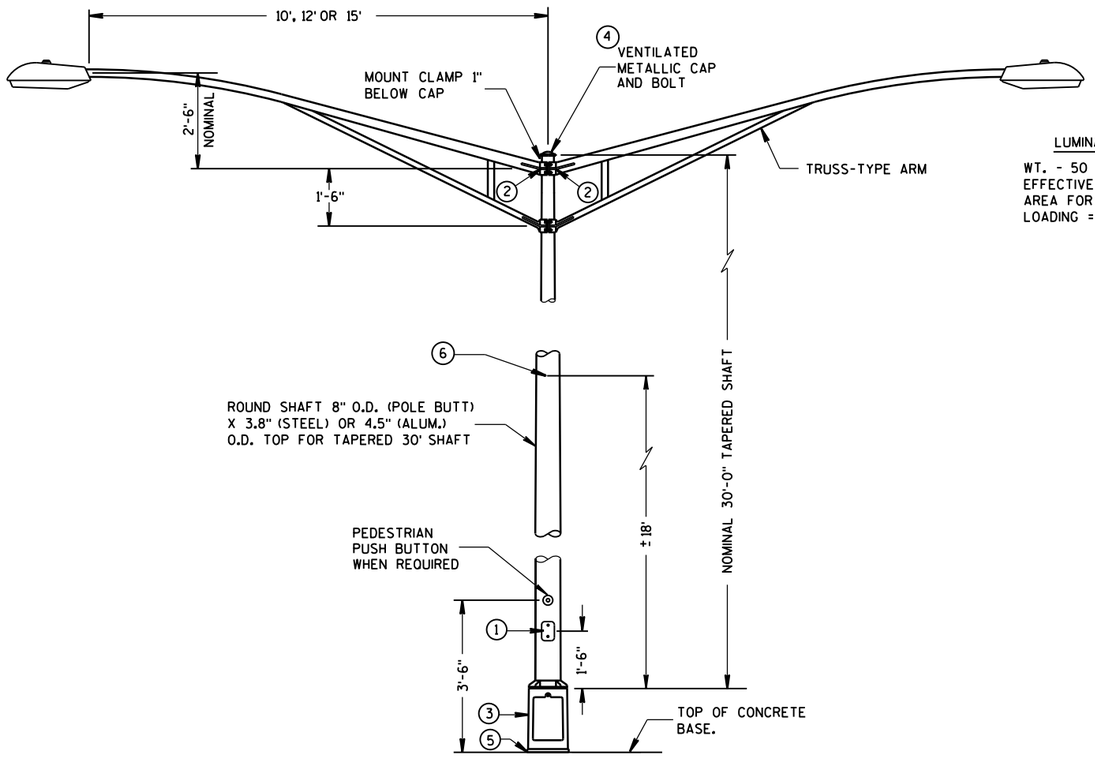
APPROVED
Sept. 2014
DATE

/S/ Ahmet Demirbilek
STATE ELECTRICAL

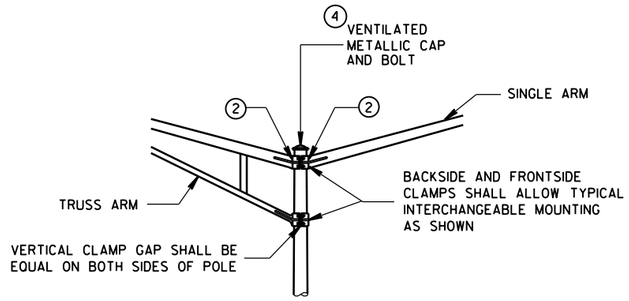
FHWA

*RISE FOR 4' ARM SHALL BE 2'-0".





TYPE 5 POLE MOUNTING CONFIGURATION
(MAXIMUM LOAD)
LIGHTING ONLY



INTERCHANGEABLE MOUNTING DETAIL

LUMINAIRE

WT. - 50 LBS.
EFFECTIVE PROJECTED
AREA FOR WIND
LOADING = 1.5 SQ. FT.

GENERAL NOTES

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

ALL TYPE 5 POLE MOUNTINGS SHALL BE DESIGNED TO INCLUDE TWIN 15' ARMS WITH LUMINAIRES.

POLES SHALL BE GALVANIZED STEEL OR ALUMINUM, AS CALLED FOR IN THE CONTRACT.

TYPE 5 ALUMINUM POLES SHALL BE CONSTRUCTED OF 6063-T6 ALUMINUM ALLOY. SLEEVING INSIDE THE POLE IS NOT ACCEPTABLE.

THE TYPE 5 ALUMINUM POLES SHALL HAVE A MINIMUM WALL THICKNESS OF 0.188".

TYPE 5 STEEL POLES SHALL HAVE A MINIMUM WALL THICKNESS OF U.S. STANDARD 11 GAGE (.1196").

THE SLIPFITTER END OF THE LUMINAIRE MAST ARM SHALL BE A NOMINAL 2⅜ INCHES IN OUTSIDE DIAMETER. THE STRAIGHT PORTION OF THE SLIPFITTER END OF THE LUMINAIRE ARM SHALL BE A NOMINAL 12 INCHES IN LENGTH.

WHEN TRANSFORMER BASES ARE USED, WIRE CONEECTIONS SHALL BE MADE IN THE TRANSFORMER BASE.

(1) 4" x 6" REINFORCED HANDHOLE & COVER ASSEMBLY WITH 2 (TWO) ¼" X ¾" - 20 TPI HEX HEAD STAINLESS STEEL BOLTS.

(2) GROMMETS, 1" CHASE NIPPLES OR 1" CLOSE CONDUIT NIPPLES WITH BUSHINGS SHALL BE PROVIDED FOR 1⅜" HOLE IN POLE SHAFT FOR WIRING.

(3) CAST ALUMINUM TRANSFORMER BASE, WHEN REQUIRED.

(4) FURNISH AND INSTALL VENTILATED, CAST, METALLIC (ALUMINUM ALLOY) CAPS. FASTEN CAPS WITH ONE (1) ¼" X ¾" - 20 TPI STAINLESS STEEL, HEX HEAD BOLT.

(5) SHIMMING, IF NEEDED, SHALL BE LOCATED BETWEEN THE CONCRETE FOUNDATION AND THE TRANSFORMER BASE.

(6) INTERNAL DUMBBELL-TYPE VIBRATION DAMPER.

6

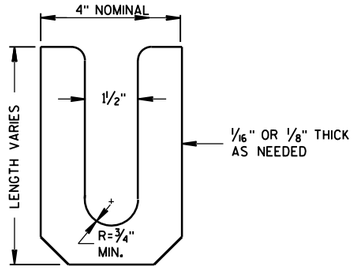
S.D.D. 9 E 1-14d

POLE MONTINGS FOR
LIGHTING UNITS, TYPE 5
(30 FEET)

STATE OF WISCONSIN
DEPARTMENT OF TRANSPOI

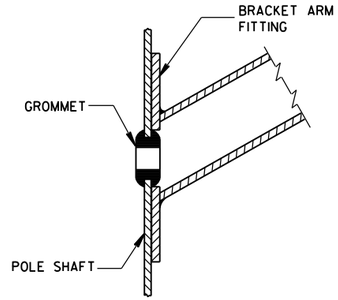
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S.D.D. 9 E 1-14d

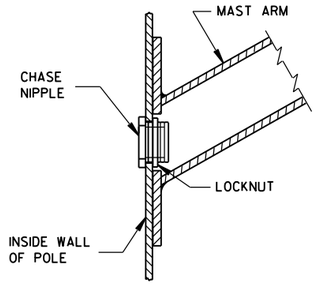


LEVELING SHIM (13)

SHALL BE ALUMINUM



TYPICAL APPLICATION OF GROMMET IN POLE SHAFT



TYPICAL APPLICATION OF CHASE NIPPLE IN POLE SHAFT

GENERAL NOTES

CLAMP BOLT-NUT TIGHTENING TORQUE SHALL BE INDICATED BY INDENT STAMPING (1/2 INCH NUMERALS AND LETTERS) OR WEATHERPROOF PRINTING ON THE INSIDE OF THE CLAMP THAT IS WELDED TO THE ARM MEMBER.

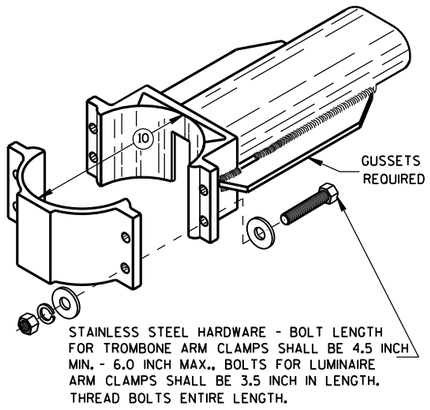
(10) 4.5" I.D. FOR LUMINAIRE MAST ARM CLAMP.
6.625" I.D. FOR TROMBONE MAST ARM CLAMP.

(11) INDIVIDUAL BASE PLATE ANCHOR ROD COVERS. (4 REQUIRED)

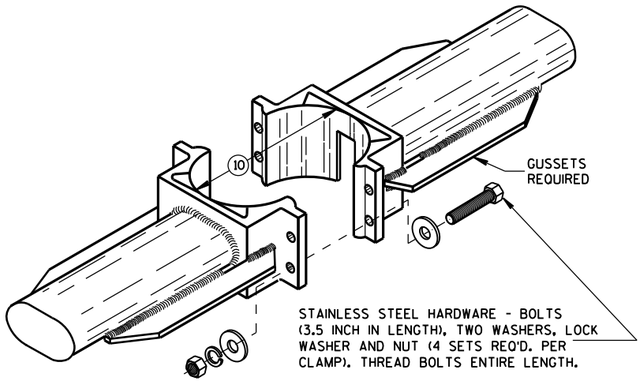
(12) BASE PLATE SLOTTED TO ACCEPT 11" THROUGH 12" BOLT CIRCLE USING 1" DIAMETER ANCHOR RODS.

(13) LEVELING SHIMS, DESIGNED FOR THE PURPOSE, SHALL BE USED WHEN PLUMBING POLES. THE USE OF WASHERS IN LIEU OF PROPER LEVELING SHIMS IS NOT ACCEPTABLE. LEVELING SHIMS SHALL BE USED ONLY BETWEEN THE TOP OF THE CONCRETE BASE AND A METALLIC BASE PLATE.

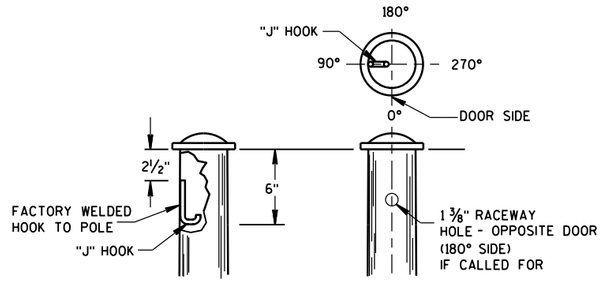
SHIMS SHALL BE LONG ENOUGH AND WIDE ENOUGH TO COMPLETELY COVER THE AREA UNDER THE LENGTH AND WIDTH OF THE BASE MOUNTING FLANGE.



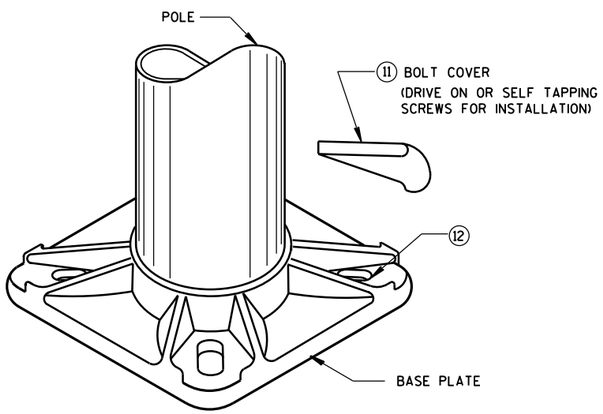
TYPICAL TROMBONE MAST ARM AND SINGLE LUMINAIRE MAST ARM MOUNTING CLAMP



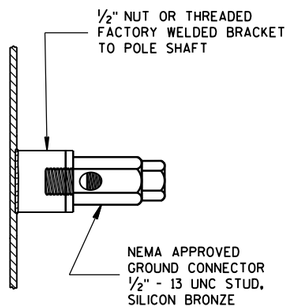
TYPICAL LUMINAIRE MAST ARM (DOUBLE) MOUNTING BRACKETS

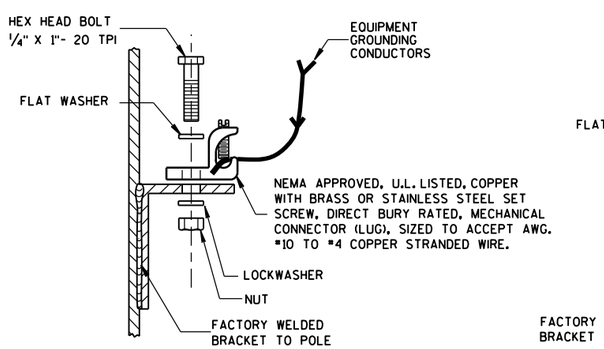


TYPICAL "J" HOOK LOCATION



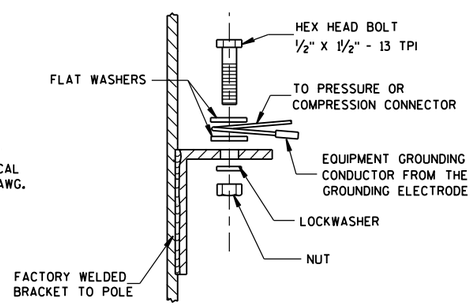
BASE PLATE





TYPICAL GROUNDING CONNECTIONS

NUT, BOLT AND WASHERS SHALL BE STAINLESS STEEL



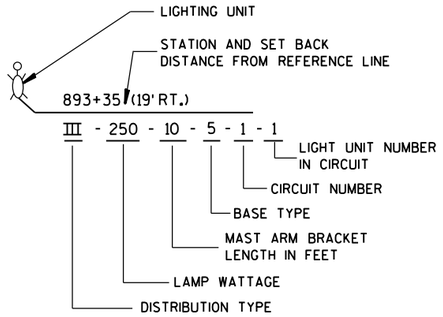
HARDWARE DETAILS FOR POLE MOUNTINGS

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

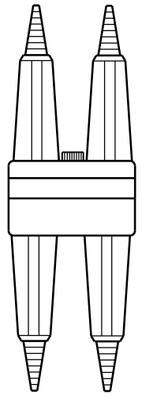
APPROVED
Feb. 2015
DATE
/S/ Ahmet Demirbilek
STATE ELECTRICAL

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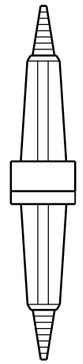
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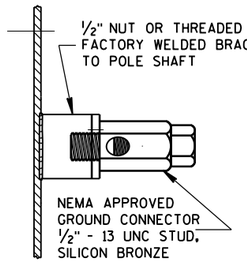
LIGHTING UNIT CODE
(TYPICAL)

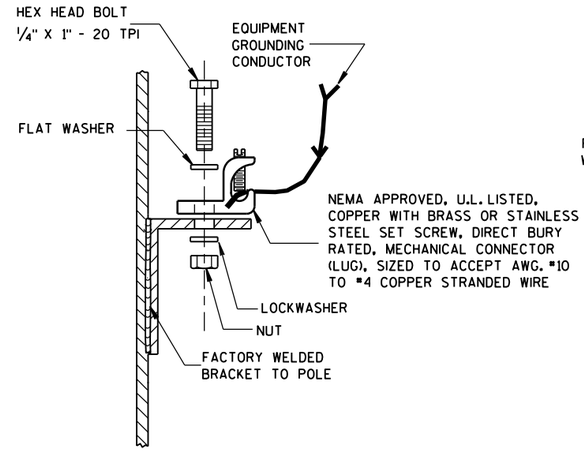


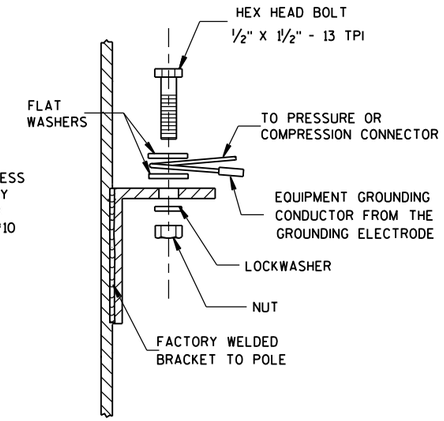
DETAIL "A"
BREAKAWY DOUBLE POLE WITH WATERPROOF INSULATING BOOT



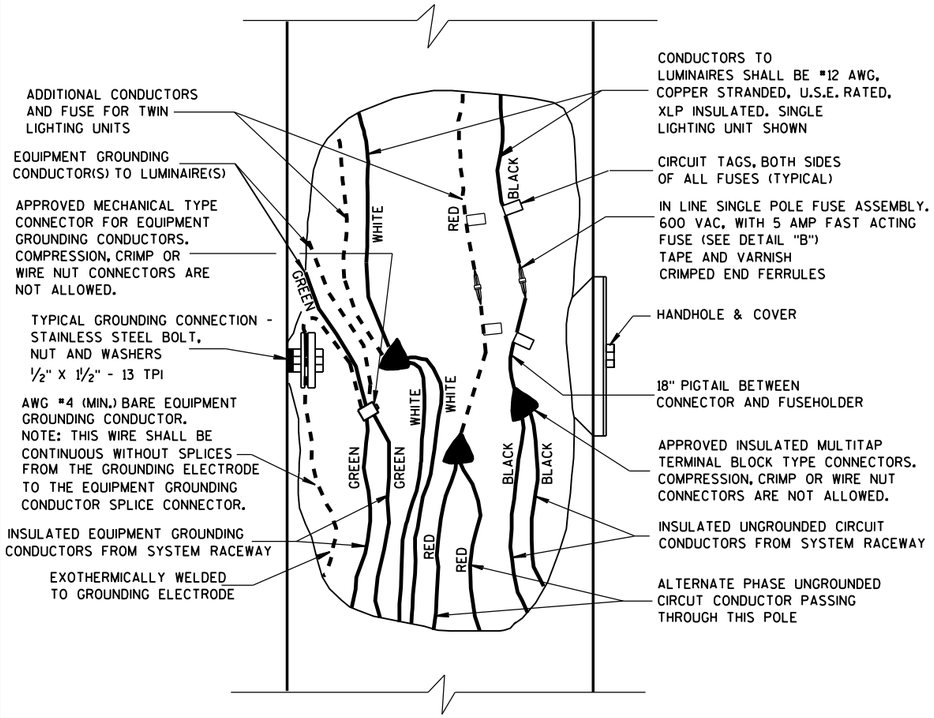
DETAIL "B"
BREAKAWY SINGLE POLE WITH WATERPROOF INSULATING BOOT



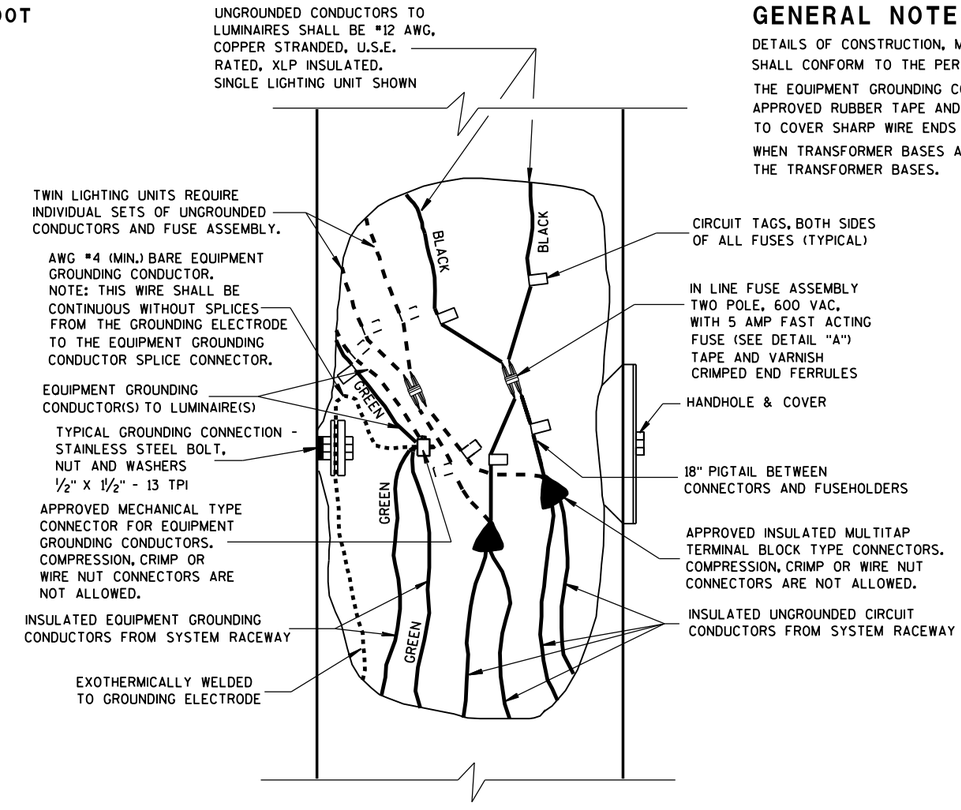




TYPICAL GROUNDING CONNECTIONS
NUT, BOLT, WASHERS AND LOCKWASHERS SHALL BE STAINLESS STEEL



3 WIRE - 120, 240 OR 480 VAC (UNGROUNDED CONDUCTOR) WITH GROUNDED CONDUCTOR AND WITH EQUIPMENT GROUNDING CONDUCTOR



2 WIRE - 240 OR 480 VAC (UNGROUNDED CONDUCTORS) WITH EQUIPMENT GROUNDING CONDUCTOR

GENERAL NOTES

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

THE EQUIPMENT GROUNDING CONNECTOR SHALL BE TAPED WITH 3 WRAPS (MINIMUM) OF APPROVED RUBBER TAPE AND THEN 3 WRAPS (MINIMUM) OF APPROVED VINYL TAPE TO COVER SHARP WIRE ENDS AFTER THE CONNECTION IS COMPLETED.

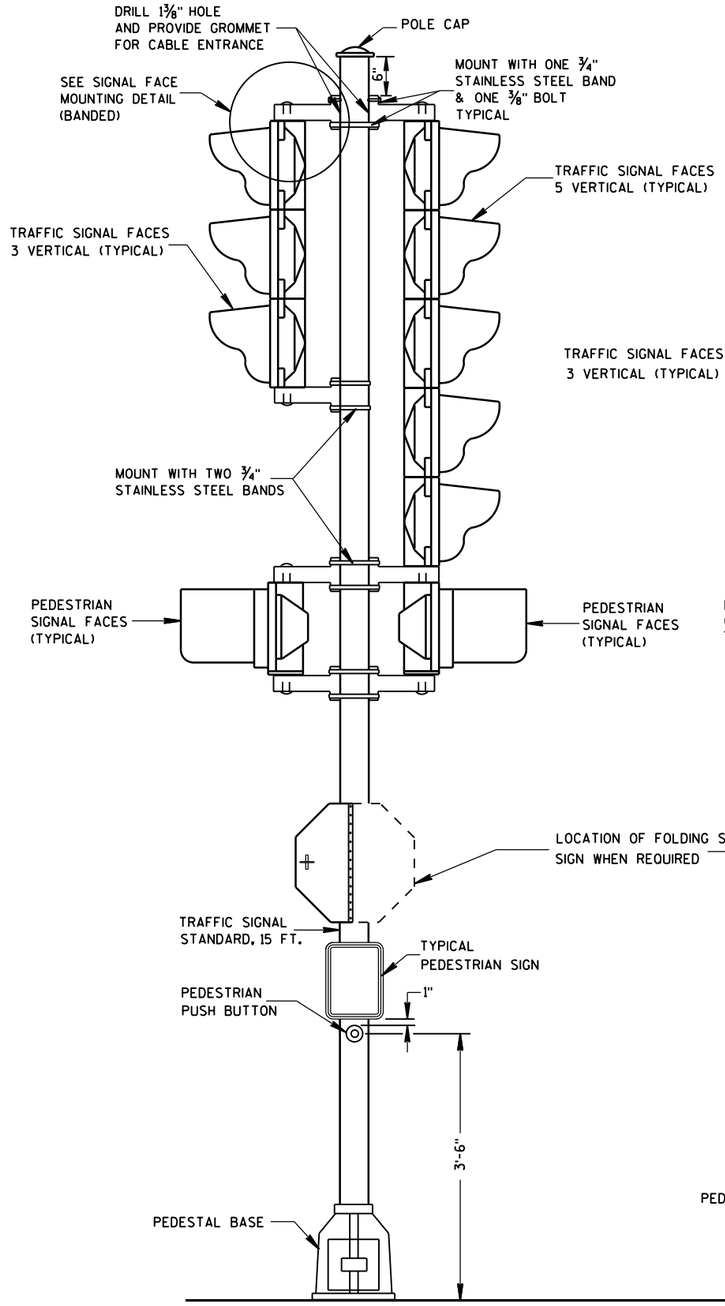
WHEN TRANSFORMER BASES ARE USED, ALL WIRING CONNECTIONS SHALL OCCUR WITHIN THE TRANSFORMER BASES.

NON-FREEWAY LIGHTING UNIT POLE WIRING

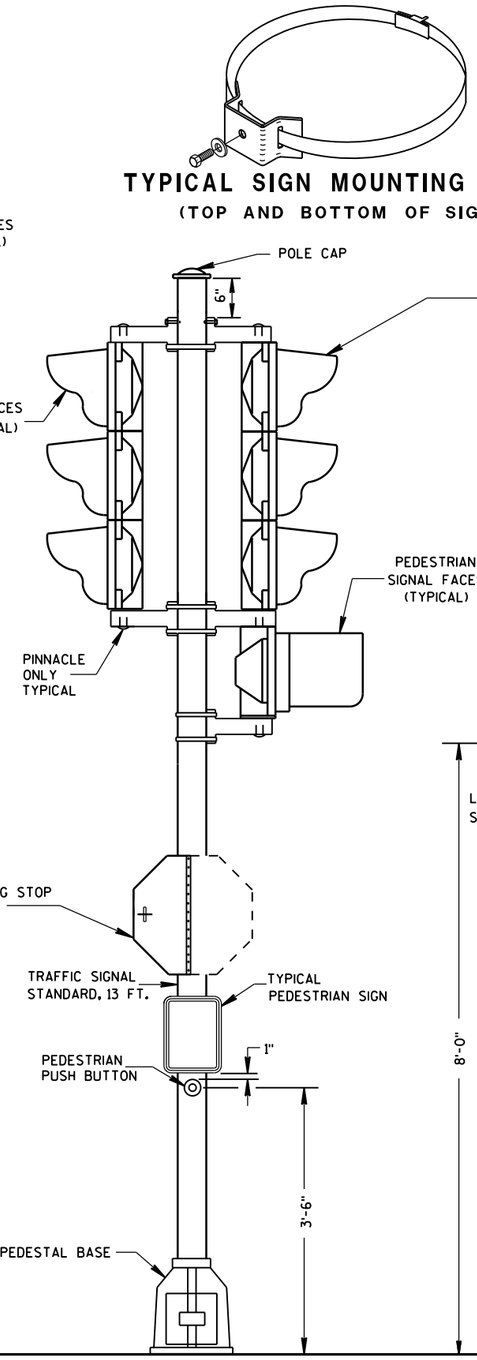
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

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Sept. 2014 — DATE
/S/ Ahmet Demirbilek — STATE ELECTRICAL
FHWA

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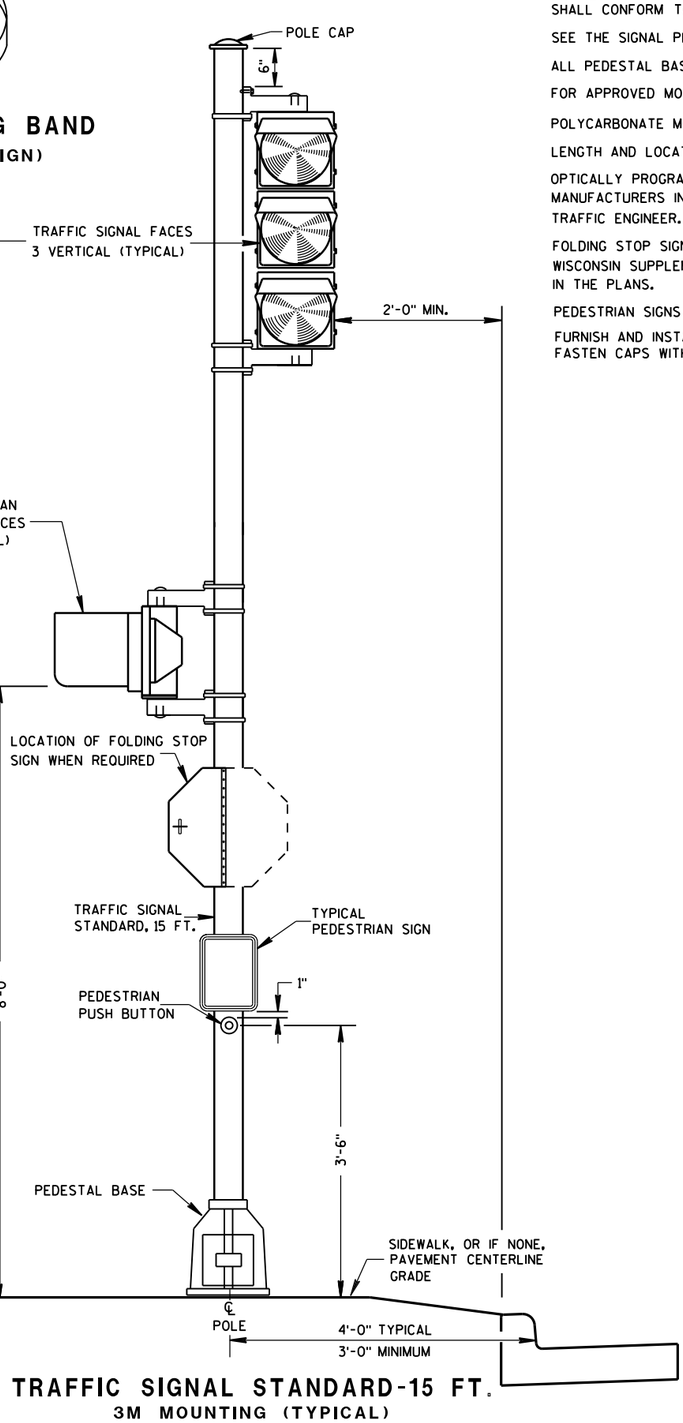


TRAFFIC SIGNAL STANDARD-15 FT.



TRAFFIC SIGNAL STANDARD-13 FT.

TYPICAL SIGN MOUNTING BAND
(TOP AND BOTTOM OF SIGN)



TRAFFIC SIGNAL STANDARD-15 FT.
3M MOUNTING (TYPICAL)

GENERAL NOTES

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

SEE THE SIGNAL PLAN FOR REQUIRED SIGNAL FACE SIZES.

ALL PEDESTAL BASES SHALL BE MOUNTED ON CONCRETE BASE - TYPE 1.

FOR APPROVED MOUNTING HARDWARE, SEE THE CONTRACT SPECIAL PROVISIONS.

POLYCARBONATE MOUNTING BRACKETS SHALL BE USED.

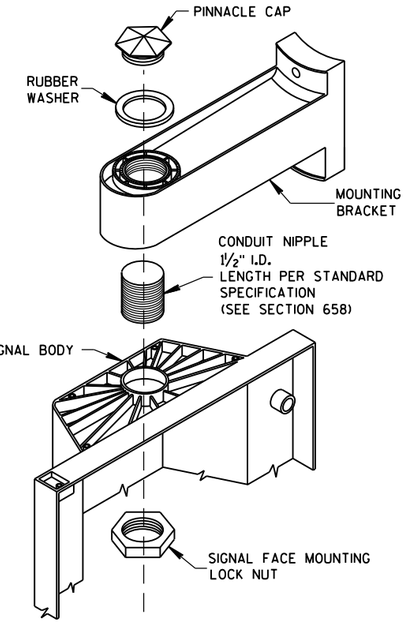
LENGTH AND LOCATION OF TRAFFIC SIGNAL STANDARDS SHALL BE AS SHOWN ON THE PLANS.

OPTICALLY PROGRAMMED SIGNAL FACES SHALL BE MASKED IN ACCORDANCE WITH MANUFACTURERS INSTRUCTIONS, AND UNDER THE DIRECTIONS OF THE REGION TRAFFIC ENGINEER.

FOLDING STOP SIGNS SHALL BE IN ACCORDANCE WITH THE MUTCD AND/OR THE LATEST WISCONSIN SUPPLEMENT. THE SIGNS SHALL BE SIZED AND LOCATED AS CALLED FOR IN IN THE PLANS.

PEDESTRIAN SIGNS SHALL BE AS DESIGNATED IN THE PLANS.

FURNISH AND INSTALL VENTILATED, CAST, METALLIC (ALUMINUM ALLOY) CAPS. FASTEN CAPS WITH ONE (1) ¼" X ¾" - 20 TPI STAINLESS STEEL, HEX HEAD BOLT.

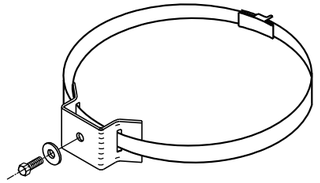


SIGNAL FACE MOUNTING DETAIL
(BANDED)

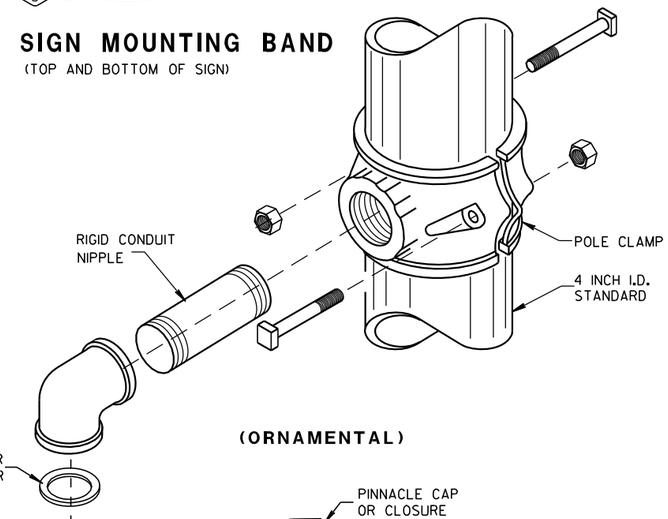
TRAFFIC SIGNAL STANDARD POLY BRACKET MOUNTINGS (TYPICAL) 13 FT. OR 15 FT.	
STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION	
APPROVED	
2/28/2013 DATE	/S/ Ahmet Demirbilek STATE ELECTRICAL
FHWA	

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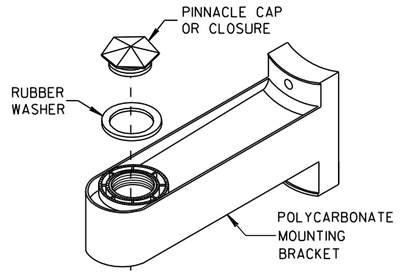
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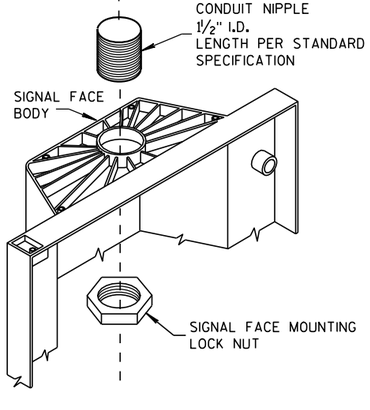
TYPICAL SIGN MOUNTING BAND
(TOP AND BOTTOM OF SIGN)



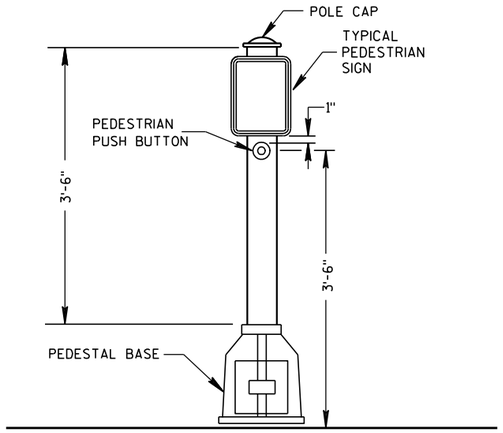
(ORNAMENTAL)



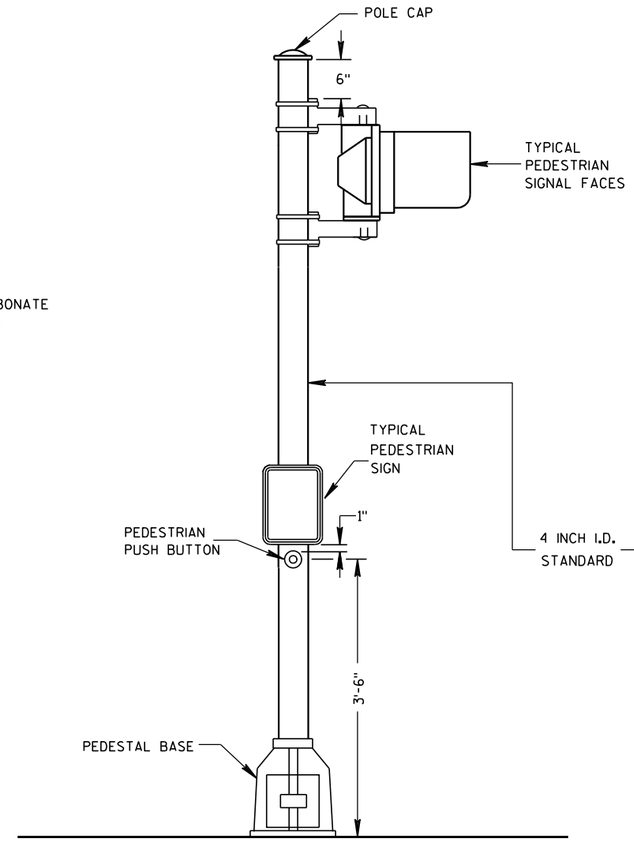
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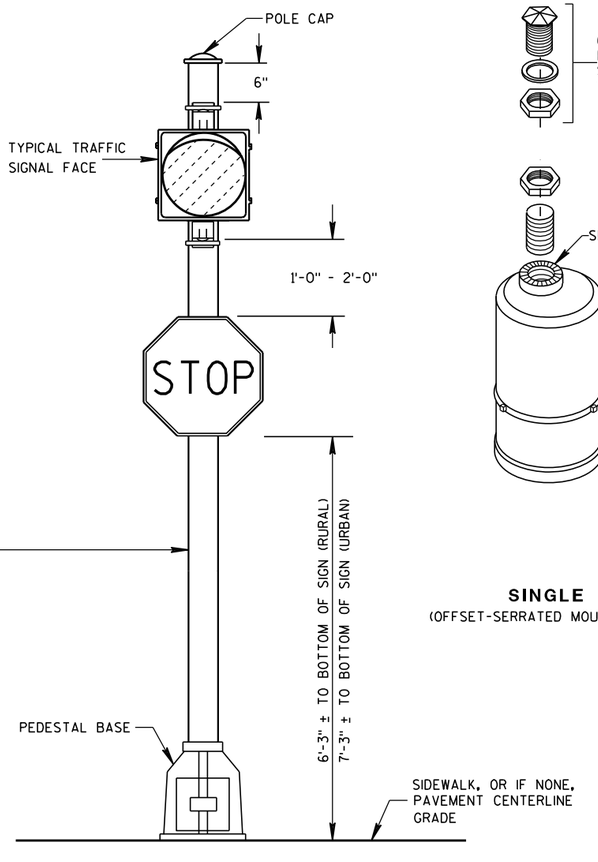
SIGNAL FACE MOUNTING DETAILS



PEDESTRIAN PUSH BUTTON TYPICAL MOUNTING



PEDESTRIAN FACE STANDARD-10 FT.
(WALK-DON'T WALK)



STANDARD FLASHER.
10 FOOT, 13 FOOT OR 15 FOOT AS REQUIRED

GENERAL NOTES

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

SEE THE SIGNAL PLAN FOR REQUIRED SIGNAL FACE SIZES.

LOCATIONS SHALL BE AS SHOWN ON THE PLANS.

ALL PEDESTAL BASES SHALL BE MOUNTED ON CONCRETE BASE - TYPE 1.

FOR APPROVED MOUNTING HARDWARE, SEE THE CONTRACT SPECIFICATIONS.

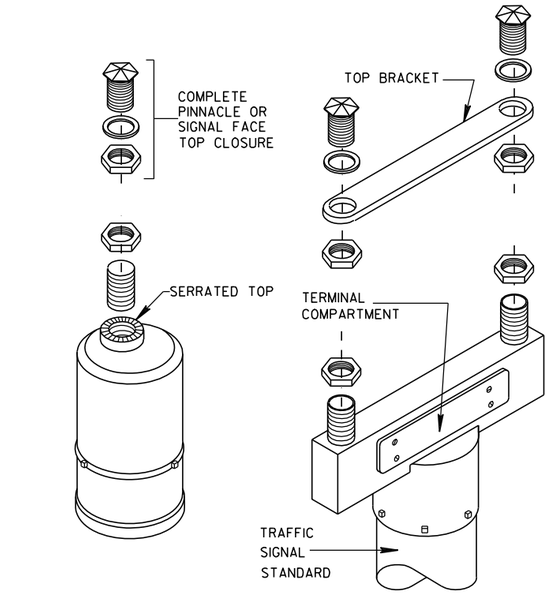
POLYCARBONATE SIGNAL FACE MOUNTING BRACKETS SHALL BE USED UNLESS ORNAMENTAL POLE CLAMPS ARE SPECIFIED.

LENGTH OF TRAFFIC STANDARDS SHALL BE AS SHOWN ON THE PLANS.

MOUNTINGS AND BRACKETS SHALL BE AS SHOWN ON THE PLANS OR DESCRIBED IN THE SPECIAL PROVISIONS (BY THE DISTRICT TRAFFIC ENGINEER).

PEDESTRIAN SIGNS SHALL BE AS DESIGNATED IN THE PLANS.

FURNISH AND INSTALL VENTILATED, CAST, METALLIC (ALUMINUM ALLOY) CAPS. FASTEN CAPS WITH ONE (1) ¼" X ¾" - 20 TPI STAINLESS STEEL, HEX HEAD BOLT.



SINGLE
(OFFSET-SERRATED MOUNTING)

DOUBLE
(SERRATED MOUNTING)

SLIPFITTERS

TRAFFIC SIGNAL STANDARD PEDESTRIAN AND FLASHER TYPICAL MOUNTING DETAILS

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED

5/11/10
DATE

/S/ John Corbin
STATE ELECTRICAL ENGI

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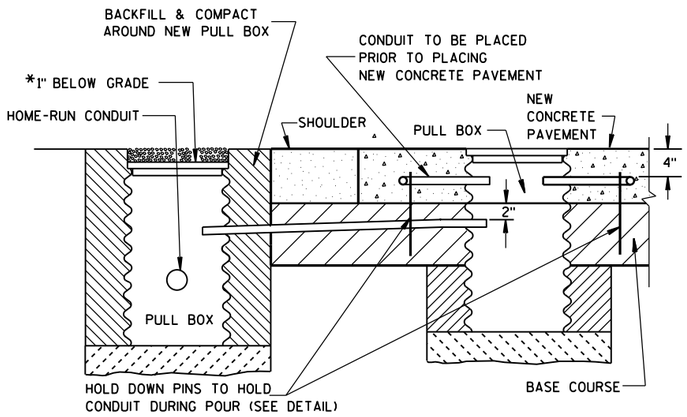
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SECTION A-A
NO CURB & GUTTER

LOOP DETECTOR INSTALLATION DETAIL

*RECESS PULL BOX SO THAT THE COVER IS 3" BELOW GRADE IN SHOULDER AREAS OF CRUSHED AGGREGATE. BACKFILL OVER COVER WITH THE CRUSHED AGGREGATE TO BRING THE AREA TO GRADE LEVEL.

GENERAL NOTES

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

LOOP SIZE, LOCATION, NUMBER OF TURNS OF WIRE AND ASSOCIATED SIGNAL PHASE SHALL BE AS SHOWN ON THE PLANS.

PITCH LEAD OUT CONDUIT TO DRAIN TO ROADSIDE PULL BOX.

SPLICES SHALL BE INSTALLED BY USING CAST IN PLACE SPLICE KITS LISTED ON THE DEPARTMENTS APPROVED PRODUCTS LIST OR AN ENGINEER APPROVED EQUAL. NON-INSULATED BUTT SPLICES TO FIT #12 AWG STRANDED WIRE SHALL BE USED. SPLICES SHALL BE SOLDERED AND INSULATED FROM EACH OTHER AS PER INSTRUCTIONS INCLUDED IN THE SPLICE KIT.

MEASURE GROUND RESISTANCE USING A MEGGER. REPLACE LOOP WIRE NOT ATTAINING A READING OF INFINITY TO GROUND.

AFTER SPLICING THE LOOP WIRE TO THE LOOP LEAD-IN CABLE, THE CONTRACTOR SHALL MEASURE INDUCTANCE, GROUND RESISTANCE AND WIRE RESISTANCE AT THE CABINET END OF THE LEAD-IN CABLE AND FURNISH A COPY OF THE READINGS TO THE PROJECT ENGINEER FOR EVALUATION.

LOOP DETECTOR LEADS SHALL BE IDENTIFIED WITH THEIR ASSOCIATED LOOP BY USE OF WATERPROOF TAGS AT BOTH ENDS OF THE CABLE. A LISTING OF THE CABLE IDENTIFICATION PER INDIVIDUAL LOOP LEAD-IN SHALL BE PLACED IN THE CABINET.

ANY PVC LEADOUT CONDUIT CONTAINING MORE THAN ONE TWISTED PAIR OF LOOP LEAD WIRE SHALL BE 2".

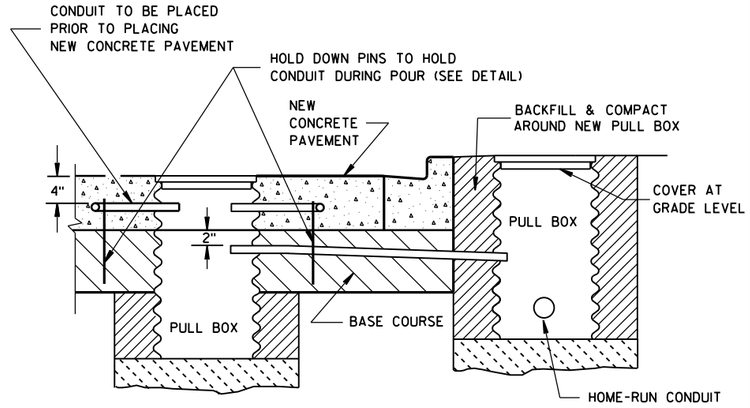
THE #12 AWG LOOP WIRE FROM THE LOOP TO THE ROADSIDE PULL BOX, SHALL BE HAND TWISTED AT LEAST 3 TWISTS PER FOOT BEFORE INSTALLATION.

SPLICES OF LOOP WIRE TO LEAD-IN CABLE SHALL BE MADE ONLY IN PULL BOXES AT THE SIDE OF THE ROAD.

THE #12 AWG LOOP WIRE SHALL BE INSTALLED FROM THE ROADSIDE PULL BOX, INTO THE PULL BOX IN THE PAVEMENT, THROUGH THE LOOP CONDUIT, BACK TO THE ROADSIDE PULL BOX, AND BE INSTALLED IN ONE, NON-SPLICED CONTINUOUS LENGTH.

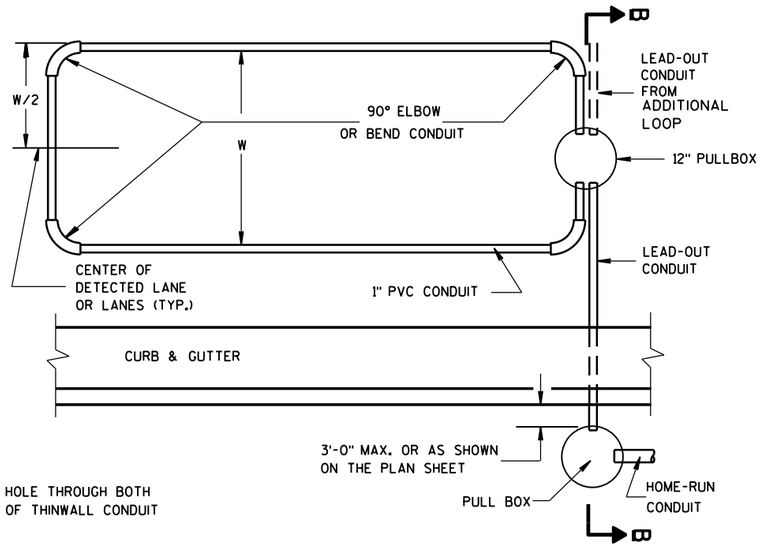
PROTECTION OF THE PULL BOX IN THE BASE COURSE, AND THE RELATED CONDUITS SHALL BE REQUIRED AFTER INSTALLATION AND BEFORE NEW CONCRETE PAVEMENT IS POURED.

12" PULL BOXES IN PAVEMENT SHALL BE CORRUGATED STEEL ONLY.

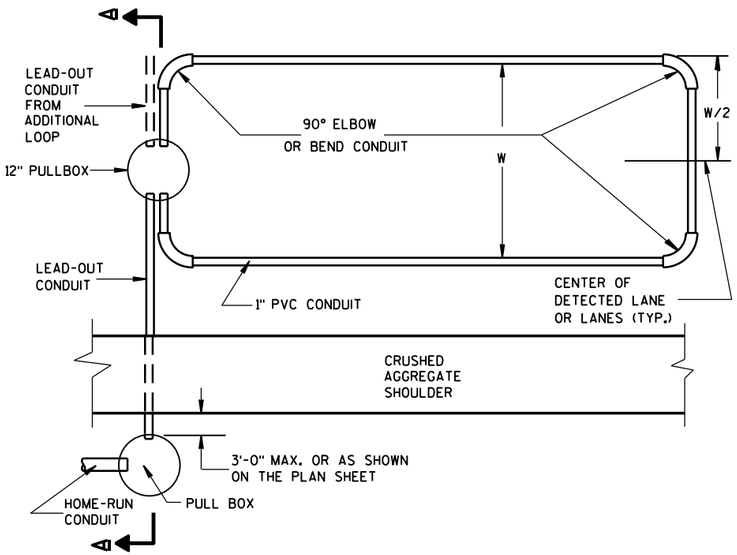


SECTION B-B
CURB & GUTTER

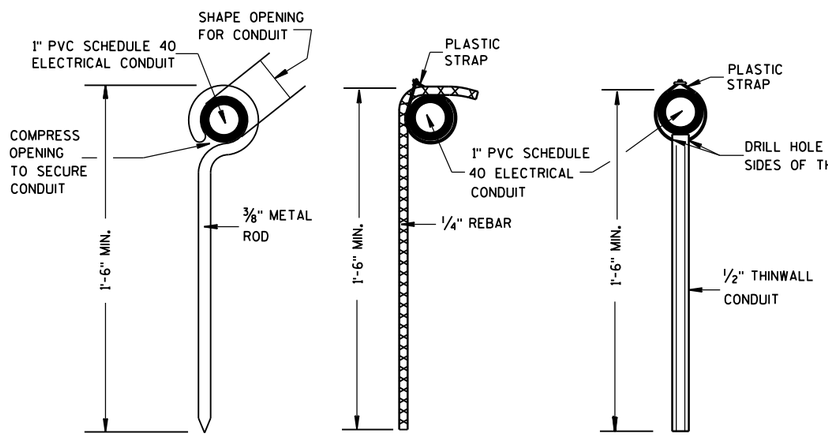
LOOP DETECTOR INSTALLATION DETAIL



TYPICAL PLAN OF LOOP DETECTOR WITH 12" PULLBOX



TYPICAL PLAN OF LOOP DETECTOR WITH 12" PULLBOX

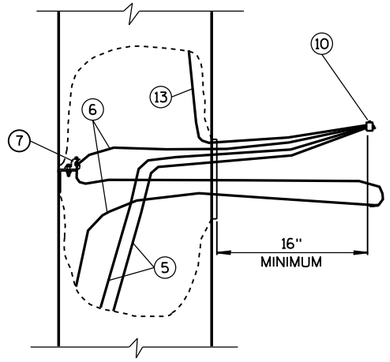


TYPICAL DETAILS FOR HOLD DOWN PINS

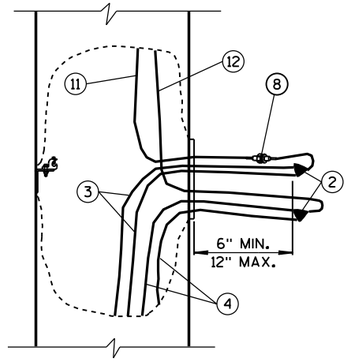
LOOP DETECTOR INSTALLED
IN NEW CONCRETE PAVEMENT
ROUND CSCP PULLBOX

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
Sept. 2014
DATE
/S/ Ahmet Demirbilek
STATE ELECTRICAL 258
FHWA

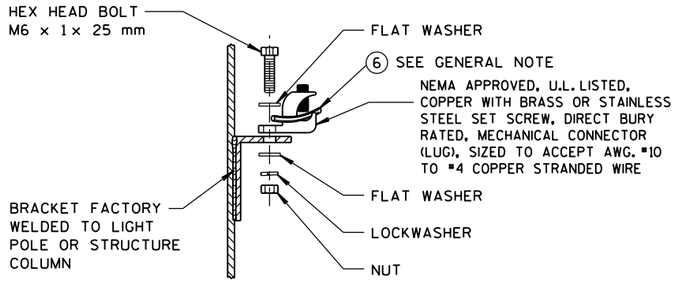


EQUIPMENT GROUNDING CONDUCTOR SLACK



UNGROUNDED CONDUCTOR SLACK (AND GROUNDED NEUTRAL SLACK IN GROUNDED NEUTRAL SYSTEM)

TYPICAL CONDUCTOR SLACK AT HANDHOLES



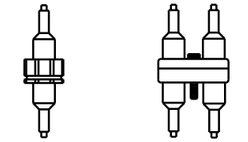
HANDHOLE GROUNDING LUG

(NUT, BOLT, WASHERS, AND LOCK WASHERS SHALL BE STAINLESS STEEL)

CONDUCTOR COLOR CODES

KEY	CONDUCTOR	COLOR
3	UNGROUNDED LINE WIRE	*
4	GROUNDED LINE WIRE	WHITE
5	SYSTEM GROUNDING LINE WIRE	GREEN
6	GROUNDING ELECTRODE CONDUCTOR	BARE
11	UNGROUNDED POLE WIRE	*
12	GROUNDED POLE WIRE	WHITE
13	EQUIPMENT GROUNDING POLE WIRE	GREEN

* FOLLOW COLOR CODING SHOWN IN THE PLANS. WHERE THE PLANS DO NOT SHOW COLOR CODING, USE BLACK FOR SINGLE LUMINAIRE POLES; BLACK AND RED FOR TWIN LUMINAIRE POLES.



1 POLE (1P) 2 POLE (2P)

FUSE ASSEMBLIES

GENERAL NOTES

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

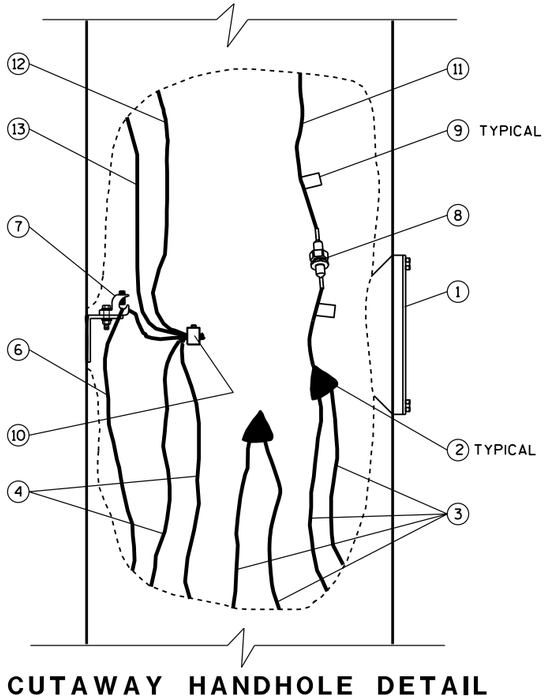
USE THIS DETAIL IN CONJUNCTION WITH THE ELECTRICAL DETAILS FOR THE APPLICATION, WHICH MAY BE A LIGHT POLE, SIGN BRIDGE, ETC.

THE GROUNDING ELECTRODE CONDUCTOR SHALL BE CONTINUOUS WITHOUT SPLICES FROM THE GROUNDING ELECTRODE THROUGH THE HANDHOLE GROUNDING LUG TO THE CONNECTOR.

THREE POLE WIRES ARE SHOWN FOR A SINGLE LUMINAIRE LIGHT POLE. THREE ADDITIONAL POLE WIRES REQUIRED FOR TWIN LUMINAIRE LIGHT POLES ARE OMITTED FROM THE DRAWING FOR CLARITY. IN THE TWIN POLE CASE, BUNDLE EACH SET OF THREE WIRES WITH A NYLON CABLE TIE.

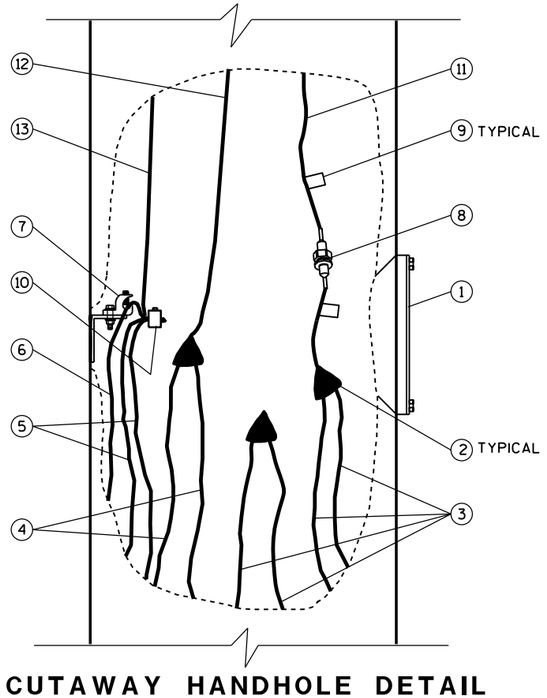
IN 3-PHASE SYSTEMS, THERE WILL BE ONE MORE UNGROUNDED LINE WIRE, WHICH IS OMITTED FROM THE DRAWING FOR CLARITY.

CIRCUIT TAGS SHALL BE INSTALLED ONLY WHERE REQUIRED IN THE SPECIAL PROVISIONS.



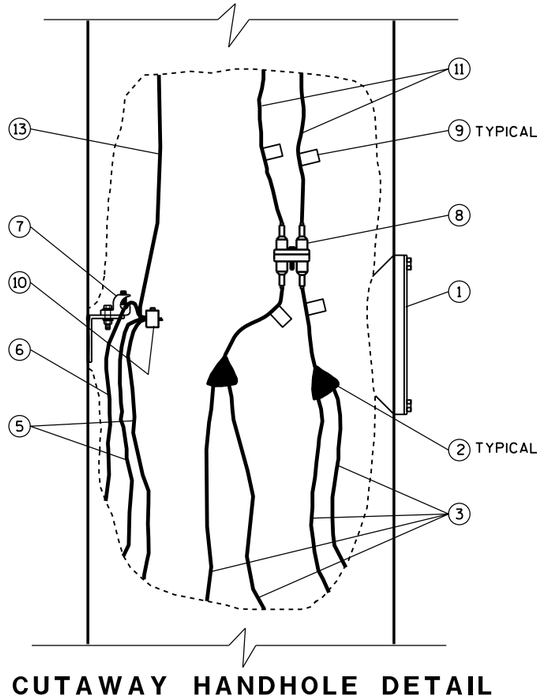
CUTAWAY HANDHOLE DETAIL

GROUNDED NEUTRAL SYSTEMS
1-Φ



CUTAWAY HANDHOLE DETAIL

ISOLATED NEUTRAL SYSTEMS
1-Φ SHOWN; 3-Φ WYE SIMILAR
(SEE GENERAL NOTE)



CUTAWAY HANDHOLE DETAIL

PHASE-TO-PHASE SYSTEMS
1-Φ SHOWN; 3-Φ DELTA SIMILAR
(SEE GENERAL NOTE)

NOTE: REQUIRED CONDUCTOR SLACK NOT SHOWN ON "CUTAWAY HAND HOLE" DETAILS FOR DRAWING CLARITY, SEE "TYPICAL CONDUCTOR SLACK AT HANDHOLES" ON THIS SHEET.

1. HANDHOLE AND COVER
2. INSULATED SPLICE
3. UNGROUNDED LINE WIRE
4. GROUNDED LINE WIRE
5. SYSTEM GROUNDING LINE WIRE
6. GROUNDING ELECTRODE CONDUCTOR
7. HANDHOLE GROUNDING LUG
8. FUSE ASSEMBLY, 1P OR 2P AS REQUIRED
9. CIRCUIT TAG (SEE GENERAL NOTE)
10. REVERSIBLE PRESSURE OR COMPRESSION GROUNDING CONNECTOR (NOT INSULATED)
11. UNGROUNDED POLE WIRE
12. GROUNDED POLE WIRE
13. EQUIPMENT GROUNDING POLE WIRE

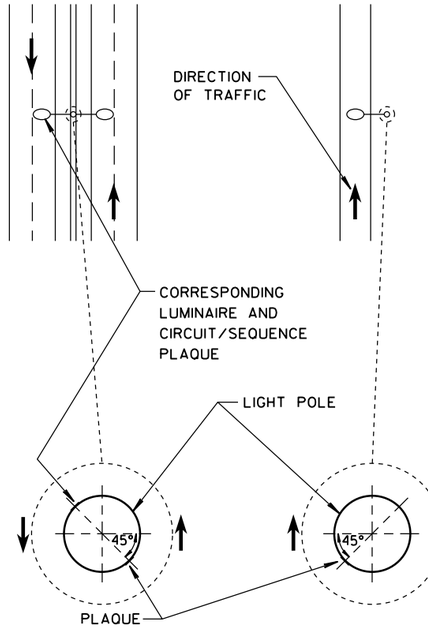
ELECTRICAL HANDHOLE WIRING

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
Sept. 2014 — DATE
/S/ Ahmet Demirbilek — STATE ELECTRICAL
FHWA

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S.D.D. 10 A 1-3



MEDIAN POLE SINGLE ARM POLE

LOCATION OF LIGHT POLE CIRCUIT/SEQUENCE PLAQUE

GENERAL NOTES

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

PLAQUES SHALL BE INCIDENTAL TO ALL NEW INSTALLATIONS.

WHERE SHOWN IN THE PLANS, REPLACEMENT PLAQUES WILL BE MEASURED AND PAID SEPARATELY.

FASTEN TOP, CENTER AND BOTTOM OF PLAQUE TO POLE OR OTHER LOCATION AS FOLLOWS:

GALVANIZED STEEL SHAFT - STAINLESS STEEL POP RIVETS

A588 STEEL SHAFT - SHIM FOR DRAINAGE WITH STAINLESS WASHERS; FASTEN WITH STAINLESS SELF-TAPPING SCREWS

ALUMINUM SHAFTS - ALUMINUM POP RIVETS

MOUNTING HEIGHT SHALL BE APPROXIMATELY 5.0' ABOVE CURB OR SHOULDER. ADJUST IF IT IS KNOWN THAT REQUIRED TRAFFIC SIGNS WILL OBSTRUCT.

PLAQUE MATERIALS:

BASE - SHEET ALUMINUM, 0.060" THICK.

FACE - WHITE, SELF-ADHESIVE VINYL SHEETING, NON-RETRORFLECTIVE

LINES - BLACK, 1/2" WIDE, SELF-ADHESIVE

CHARACTERS - BLACK, SELF-ADHESIVE, SERIES "D", SIZE AS SHOWN

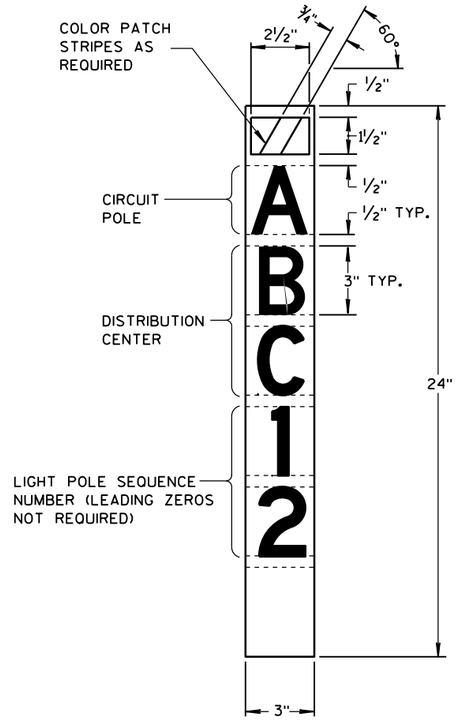
COLOR PATCHES - VARIOUS COLORS, SELF-ADHESIVE VINYL SHEETING

WITH THE APPROVAL OF THE ENGINEER, THE BASE MATERIAL MAY BE OMITTED AND THE FACE ADHERED DIRECTLY TO THE SURFACE, IN CASES SUCH AS SMOOTH, CLEAN ALUMINUM POLES.

ALTERNATIVE COMPUTER-GENERATED SIGN LETTERING MAY BE ACCEPTED IF THE ENGINEER FINDS IT TO BE EQUIVALENT.

COLOR PATCH CODE FOR HPS AND LED LUMINAIRES

HPS	LED	COLOR PATCH CODE
1000 WATT		NO PATCH
400 WATT	CATEGORY D	ORANGE
310 WATT		BLUE
250 WATT	CATEGORY C	ORANGE WITH WHITE STRIPE
200 WATT		RED
150 WATT	CATEGORY B	GREEN
100 WATT	CATEGORY A	BROWN
70 WATT	CATEGORY UDL	BROWN WITH WHITE STRIPE



LIGHT POLE CIRCUIT/SEQUENCE PLAQUE

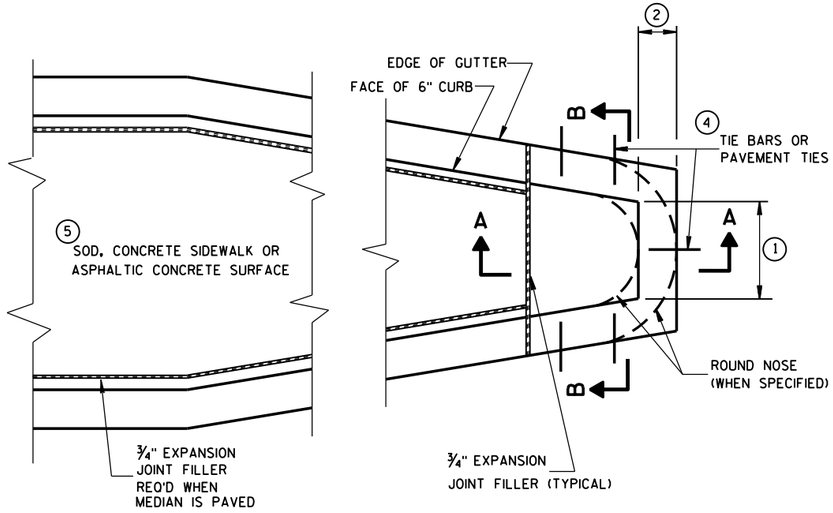
IDENTIFICATION PLAQUES LIGHT POLES

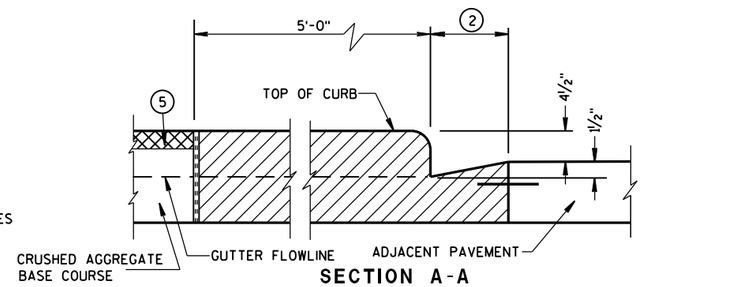
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
Feb. 2015 — DATE
/S/ Ahmet Demirbilek — STATE ELECTRICAL
FHWA

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S.D.D. 10 A 2-3





CONCRETE MEDIAN BLUNT NOSE DETAIL

GENERAL NOTES

DETAILS OF CONSTRUCTION, MATERIALS AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS AND THE APPLICABLE SPECIAL PROVISIONS.

(1) SEE PLAN FOR MEDIAN NOSE WIDTH AND RADIUS (FOR ROUND NOSE ALTERNATE).

(2) WIDTH OF GUTTER TO MATCH EXISTING ADJACENT GUTTER OR AS SPECIFIED ELSEWHERE IN THE PLAN.

(3) DEPTH EQUAL TO ADJACENT PAVEMENT. ADJACENT PAVEMENT STRUCTURE DETAILS ARE SHOWN ON THE PLAN. TYPICAL OPTIONS ARE:

(1) NEW OR EXISTING CONCRETE PAVEMENT.

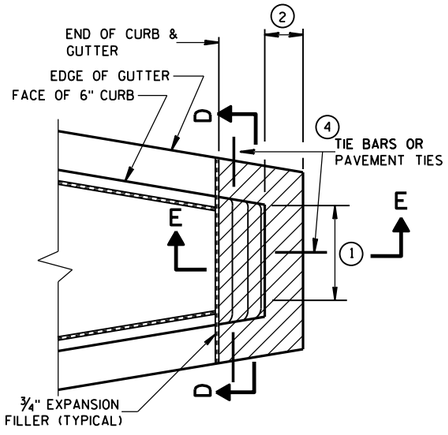
(2) ASPHALTIC CONCRETE PAVEMENT OVER NEW OR EXISTING CONCRETE BASE COURSE.

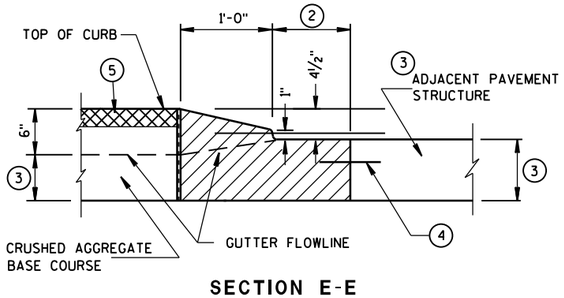
(3) ASPHALTIC CONCRETE PAVEMENT OVER CRUSHED AGGREGATE BASE COURSE.

(4) TIE BARS OR PAVEMENT TIES REQUIRED IN NEW CONCRETE PAVEMENT OR CONCRETE BASE COURSE. TIE BARS SHALL BE NO. 4 X 2'-0" SPACED AT 2'-0" C-C.

PAVEMENT TIES REQUIRED IN EXISTING CONCRETE BASE COURSE. PAVEMENT TIES SHALL BE NO. 6 X 1'-0" SPACED AT 3'-0" C-C INSTALLED ON A HORIZONTAL SKEW OF 6:1. THE DIRECTION OF SKEW SHALL ALTERNATE AFTER EVERY ONE OR TWO BARS.

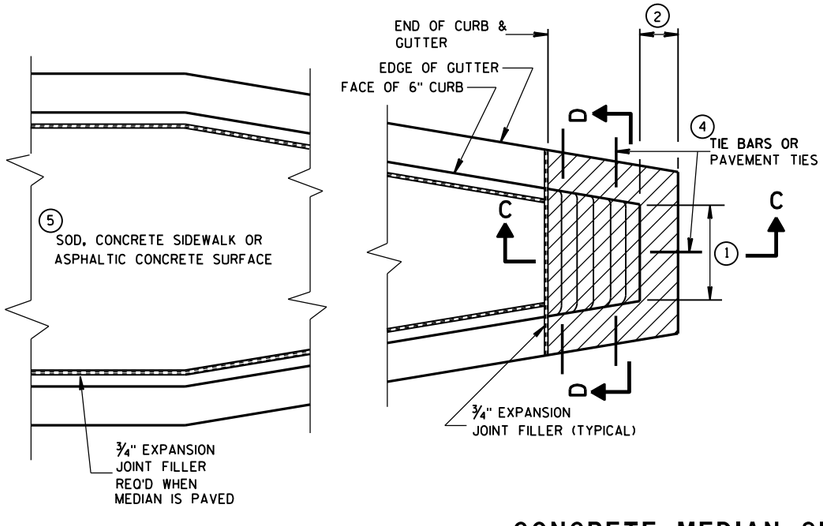
(5) SURFACE TYPE AND DETAILS ARE SHOWN ELSEWHERE IN THE PLAN.

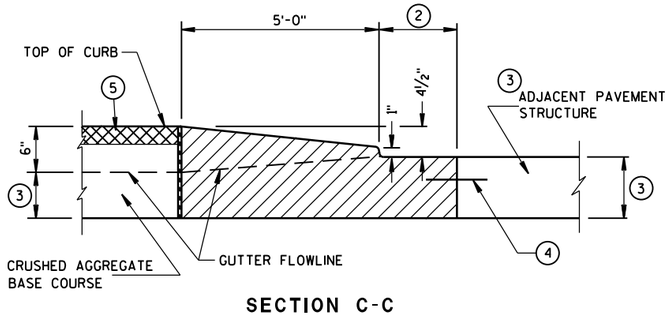




SECTION E-E

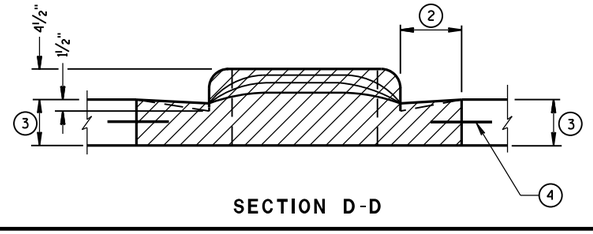
CONCRETE MEDIAN SLOPED NOSE TYPE 2





SECTION C-C

CONCRETE MEDIAN SLOPED NOSE TYPE 1



SECTION D-D

CONCRETE MEDIAN NOSE

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

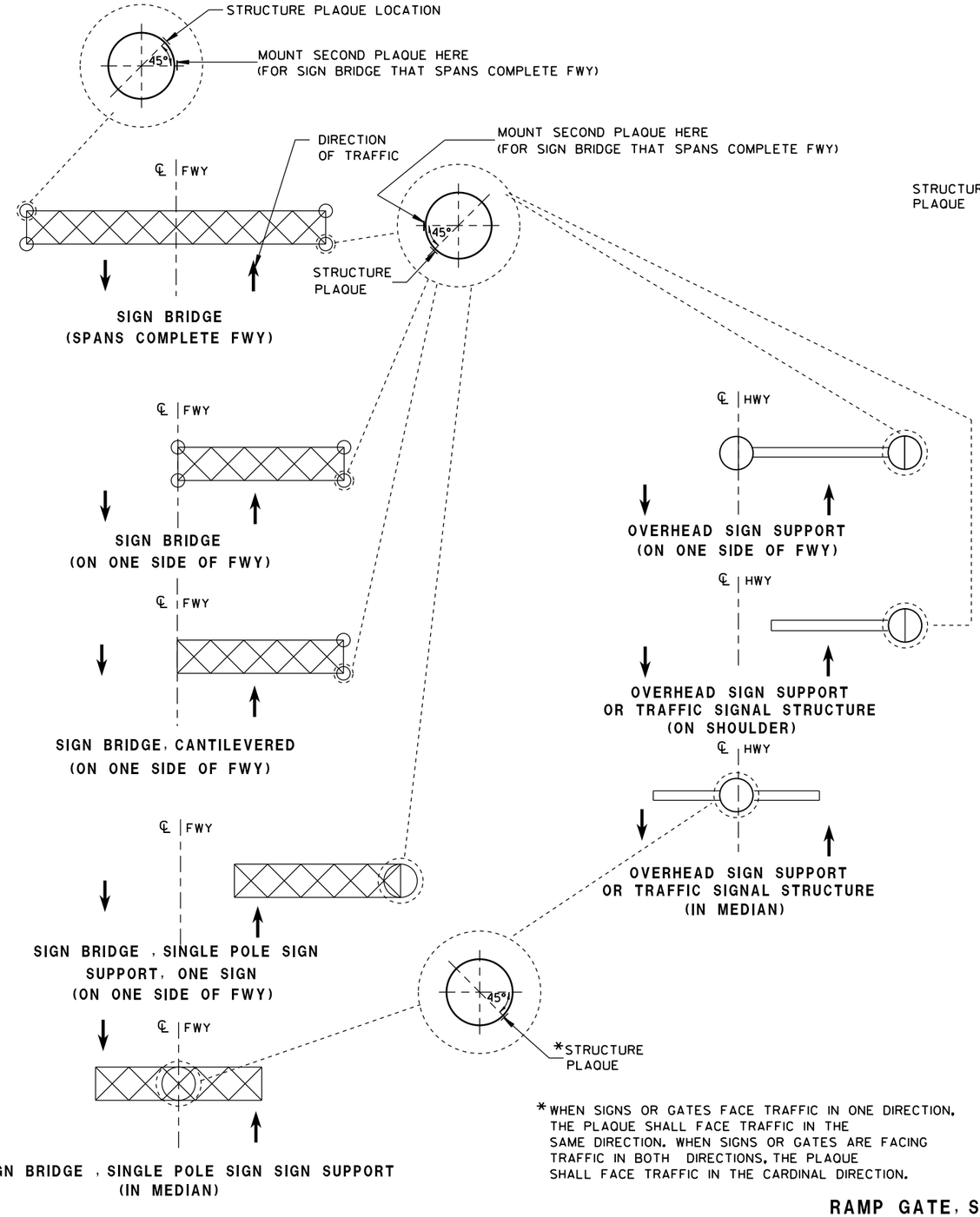
APPROVED
6/8/2006
DATE
/S/ Jerry H. Zogg
ROADWAY STANDARDS D ENGINEER
FHWA

6

S.D.D. 11 B 2-2

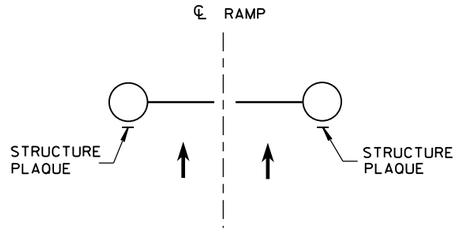
6

S.D.D. 11 B 2-2

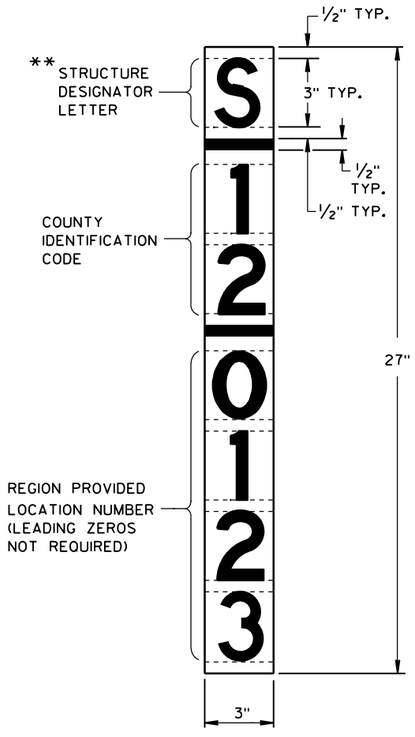


*WHEN SIGNS OR GATES FACE TRAFFIC IN ONE DIRECTION, THE PLAQUE SHALL FACE TRAFFIC IN THE SAME DIRECTION. WHEN SIGNS OR GATES ARE FACING TRAFFIC IN BOTH DIRECTIONS, THE PLAQUE SHALL FACE TRAFFIC IN THE CARDINAL DIRECTION.

LOCATION OF RAMP GATE, SIGN BRIDGE, OVERHEAD SIGN SUPPORT & TRAFFIC SIGNAL STRUCTURE PLAQUES



RAMP GATE
(ACROSS FWY ON-RAMP)



** LETTER "G" UTILIZED FOR RAMP GATES. LETTER "S" UTILIZED FOR SIGN BRIDGES, OVERHEAD SIGN SUPPORTS, AND TRAFFIC SIGNALS.

RAMP GATE, SIGN BRIDGE, OVERHEAD SIGN SUPPORT AND TRAFFIC SIGNAL STRUCTURE PLAQUE FOR SIGN BRIDGES AND OVERHEAD SIGN SUPPORT WHICH ARE NOT STRUCTURE MOUNTED

GENERAL NOTES

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

PLAQUES SHALL BE INCIDENTAL TO ALL NEW INSTALLATIONS.

IF THE PROPOSED SIGN BRIDGE OR OVERHEAD SIGN SUPPORT IS REPLACING AN EXISTING SIGN BRIDGE OR OVERHEAD SIGN SUPPORT, A NEW IDENTIFICATION PLAQUE WILL BE REQUIRED.

FASTEN TOP, CENTER AND BOTTOM OF PLAQUE TO POLE OR OTHER LOCATION AS FOLLOWS:

GALVANIZED STEEL SHAFT - 3 STAINLESS STEEL POP RIVETS

A588 STEEL SHAFT - SHIM FOR DRAINAGE WITH STAINLESS WASHERS; FASTEN WITH STAINLESS SELF-TAPPING SCREWS

ALUMINUM SHAFTS - 3 ALUMINUM POP RIVETS

MOUNTING HEIGHT SHALL BE APPROXIMATELY 5.0' ABOVE CURB OR SHOULDER. ADJUST IF IT IS KNOWN THAT REQUIRED TRAFFIC SIGNS WILL OBSTRUCT.

PLAQUE MATERIALS:

BASE - SHEET ALUMINUM, 0.060" THICK.

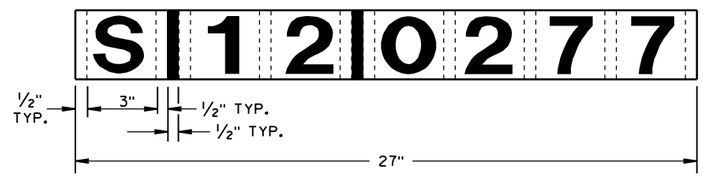
FACE - WHITE, SELF-ADHESIVE VINYL SHEETING, NON-RETROREFLECTIVE

LINES - BLACK, ½" WIDE, SELF-ADHESIVE

CHARACTERS:- BLACK, SELF ADHESIVE, SERIES "D", SIZE AS SHOWN.

FOR SIGN BRIDGES, STRUCTURE MOUNTED, THE STRUCTURE PLAQUE SHALL BE MOUNTED HORIZONTALLY AS SHOWN ON THE DRAWING. THE STRUCTURE PLAQUE SHALL BE MOUNTED HORIZONTALLY TO THE BACK OF THE SIGN, BETWEEN THE ALUMINUM EXTRUSIONS, NEAR THE TOP LEFT HAND CORNER OF THE SIGN. THE BASE MATERIAL SHALL BE OMITTED AND THE FACE ADHERED DIRECTLY TO THE ALUMINUM SURFACE. PRIOR TO ADHERING THE MATERIAL, THE ALUMINUM SURFACE SHALL BE SMOOTH, CLEAN AND DRY.

WHERE SIGN BRIDGE ILLUMINATION IS PROVIDED, THE STRUCTURE MUST ALSO HAVE A SIGN BRIDGE CIRCUIT PLAQUE AS SHOWN IN THE ELECTRICAL DETAILS.



IDENTIFICATION PLAQUE FOR SIGN BRIDGE, STRUCTURE MOUNTED

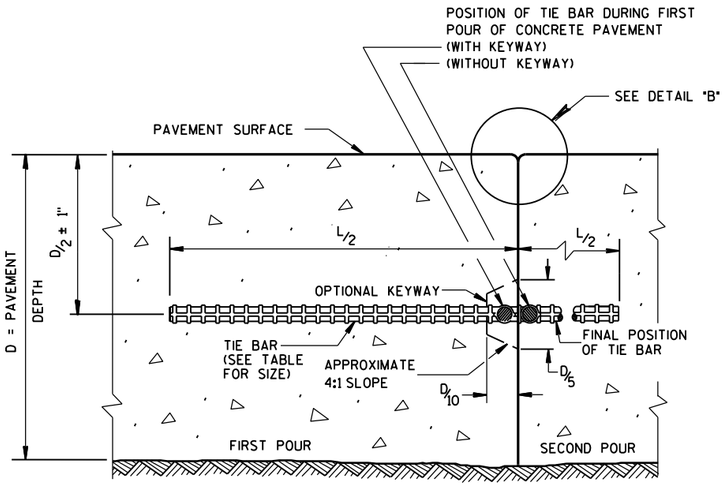
STRUCTURE IDENTIFICATION PLAQUES, RAMP GATES, SIGN BRIDGES, OVERHEAD SIGN SUPPORTS, & TRAFFIC SIGNALS

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

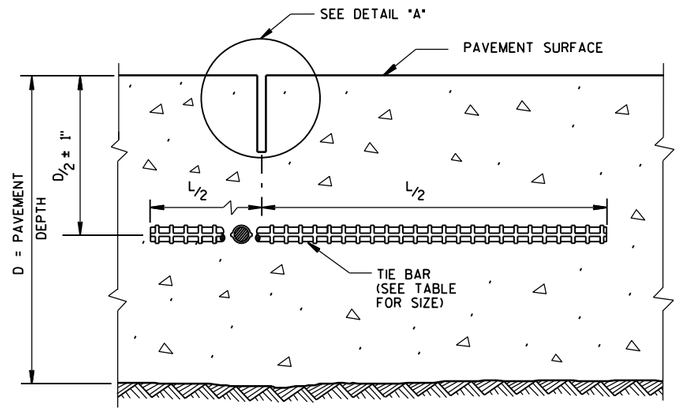
APPROVED
12/4/2012 DATE
/S/ Travis Feltes STATE TRAFFIC ENGINEER
FHWA

6

S.D.D. 12 A 4-3



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"

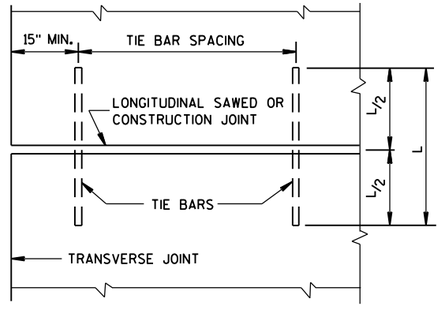
DETAIL "C"

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

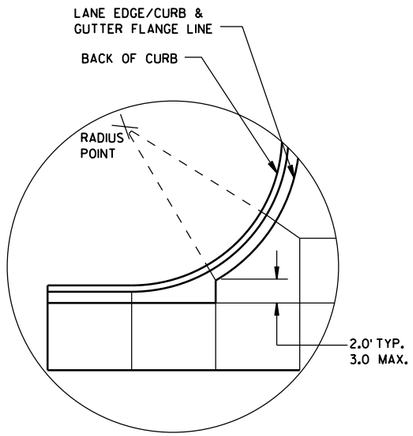
CONCRETE PAVEMENT LONGITUDINAL JOINTS AND TIES

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

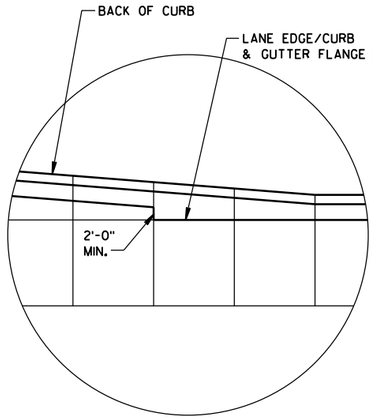
APPROVED
June, 2015 — DATE
/S/ Peter Kemp, P.E. — PAVEMENT SUPER
FHWA

6

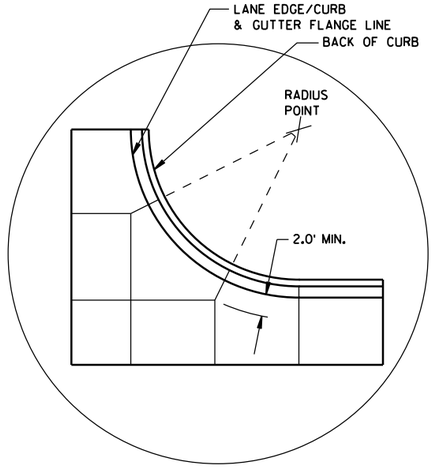
S.D.D. 13 C 1-18



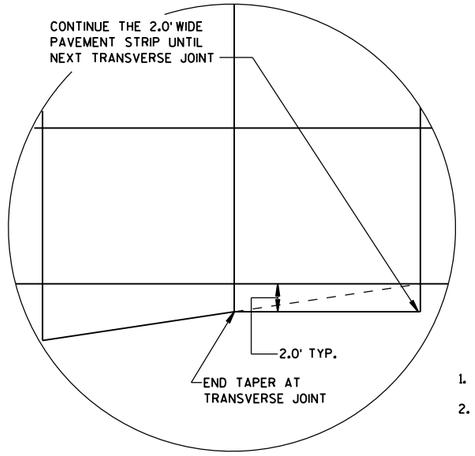
DETAIL "A"



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.

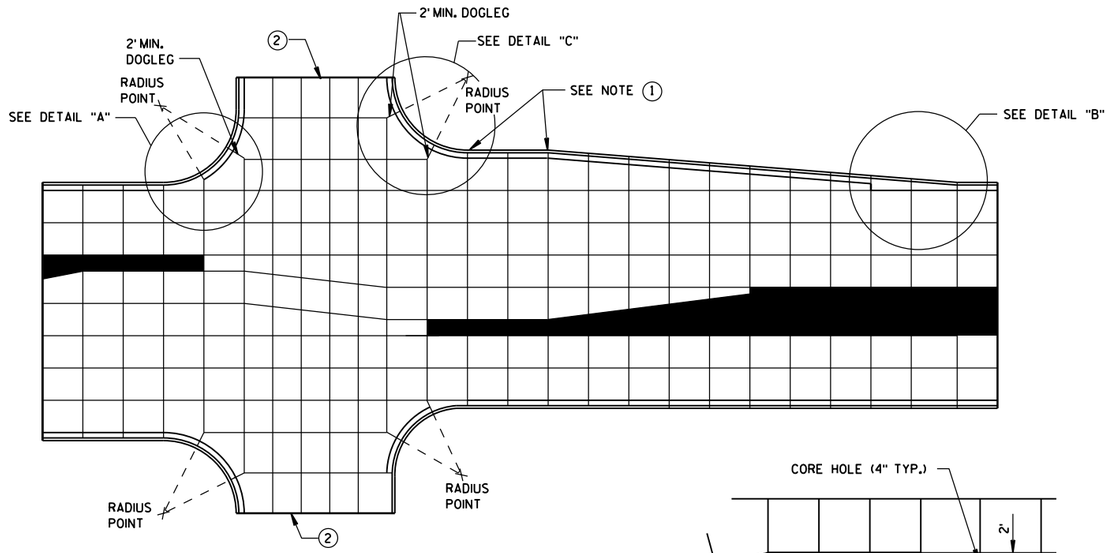
AVOID SLABS LESS THAN 2 FEET WIDE OR GREATER THAN 15 FEET WIDE.

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.

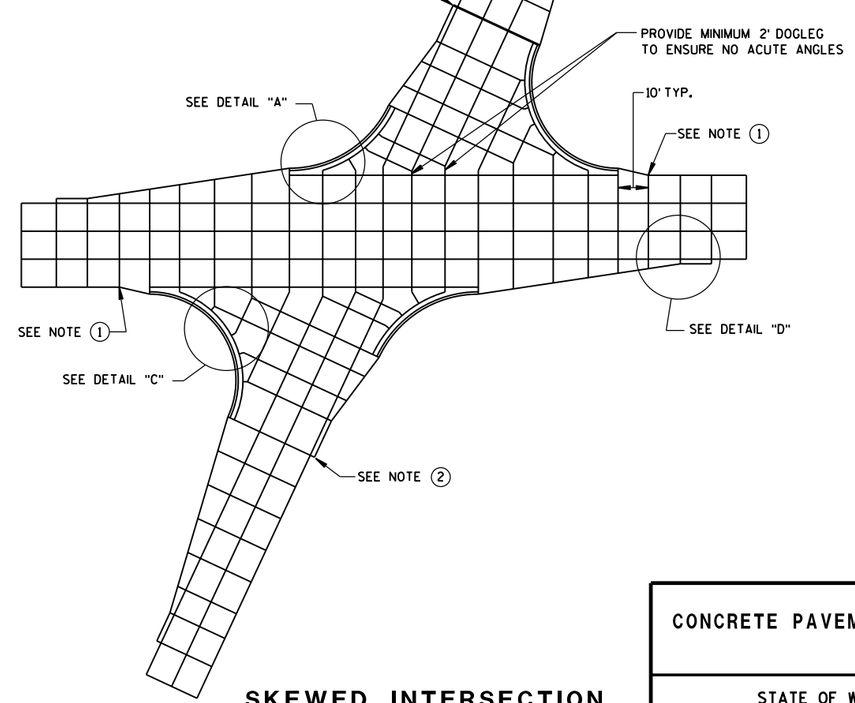
1. PROVIDE TRANSVERSE JOINTS AT ALL PAVEMENT WIDTH CHANGES.
2. CONSTRUCT DOWELED EXPANSION JOINT ON THE SIDE ROAD OF AN INTERSECTION IF THE SIDE ROAD IS CONCRETE PAVEMENT AND GREATER THAN 300 FEET IN LENGTH. ALIGN EXPANSION JOINT WITH EDGE OF RADIUS.
3. THE ENGINEER MAY APPROVE SLIGHT VARIATIONS FROM THESE JOINTING DETAILS.



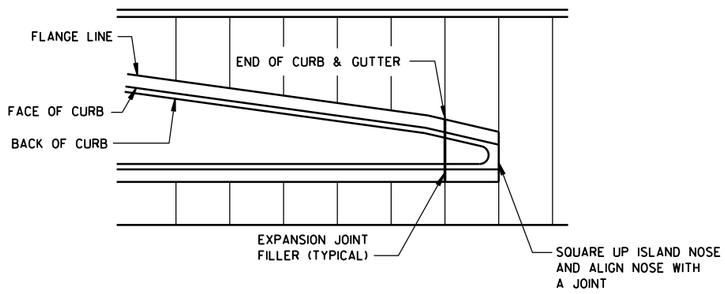
STANDARD INTERSECTION

PAVEMENT DEPTH AND JOINT SPACING TABLE

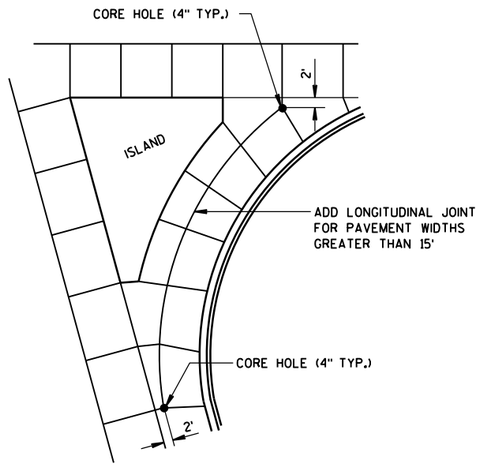
PAVEMENT DEPTH (D)	CONTRACTION JOINT SPACING
6", 6½"	12'
7", 7½"	14'
8" & ABOVE	15'



SKEWED INTERSECTION



APPROACH TO MEDIAN



LARGE RIGHT TURN

CONCRETE PAVEMENT JOINTING

STATE OF WISCONSIN
DEPARTMENT OF TRANSPOR 264

6

S.D.D. 13 C 18-3a

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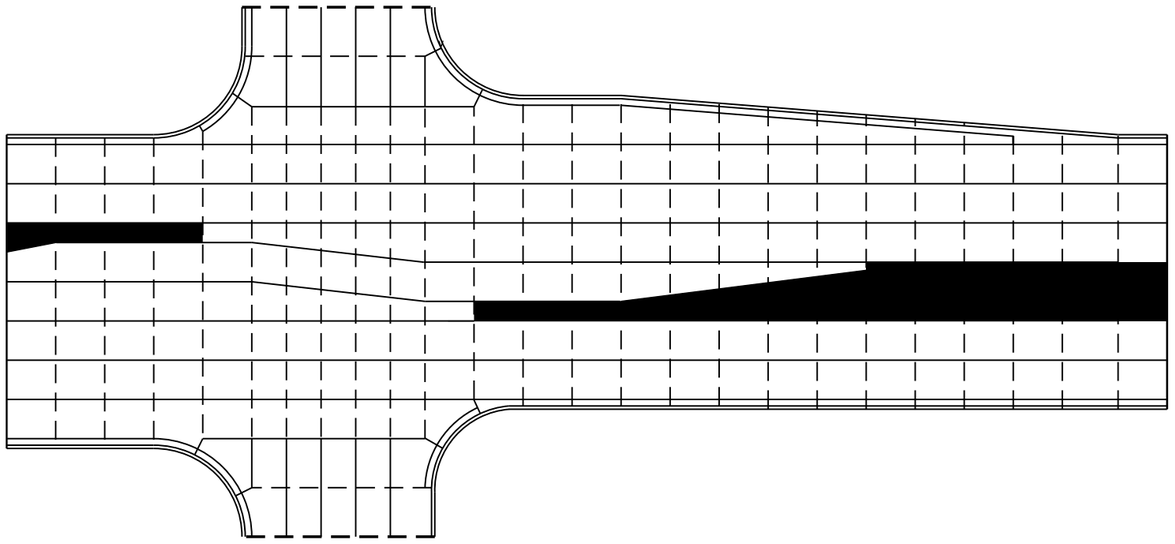
S.D.D. 13 C 18-3a

LEGEND

POTENTIAL DOWELED EXPANSION JOINT

DOWELED JOINT

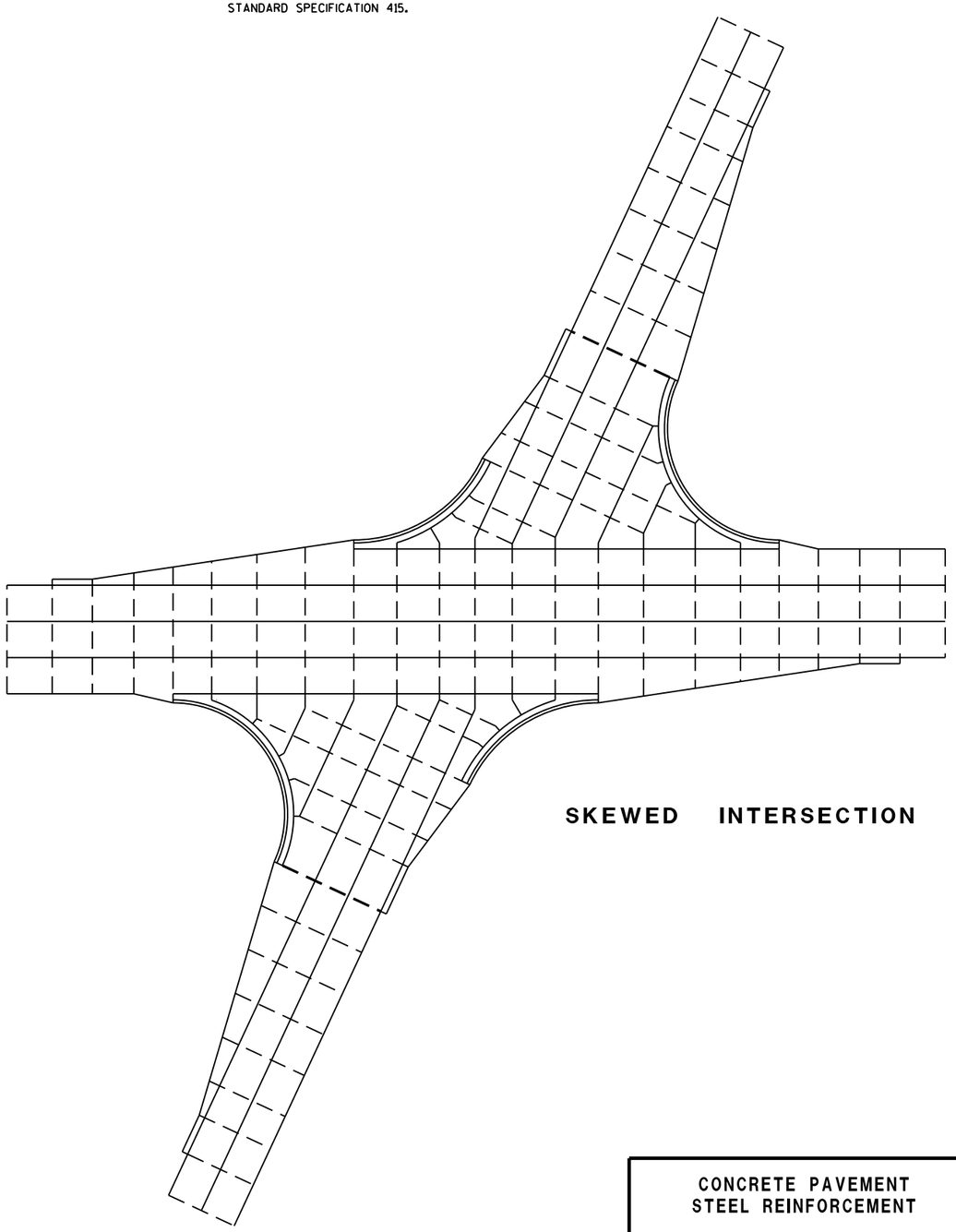
TIED JOINT



STANDARD INTERSECTION

GENERAL NOTES

USE AN EXPANSION JOINT FILLER MEETING THE REQUIREMENTS OF STANDARD SPECIFICATION 415.



SKEWED INTERSECTION

CONCRETE PAVEMENT
STEEL REINFORCEMENT

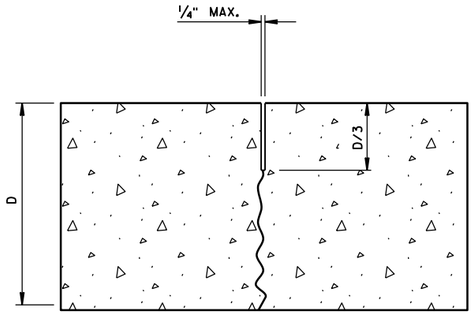
STATE OF WISCONSIN
DEPARTMENT OF TRANSPOI

6

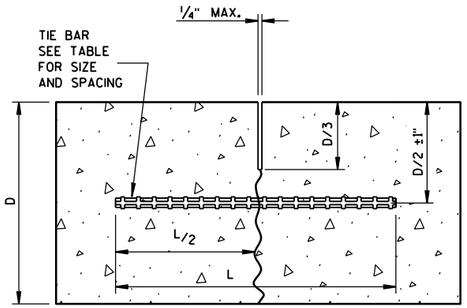
S.D.D. 13 C 18-3b

6

S.D.D. 13 C 18-3b



UNDOWELED-TRANSVERSE



TIED LONGITUDINAL

TIE BAR TABLE

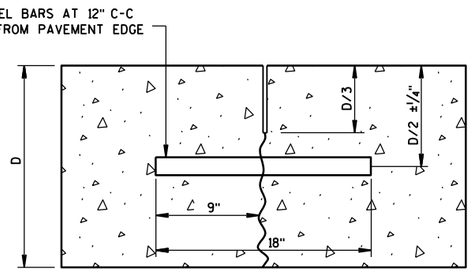
PAVEMENT DEPTH (D)	TIE BAR SIZE	TIE BAR LENGTH (L)	MAX. TIE BAR SPACING
< 10 1/2"	NO. 4	30"	36"
≥ 10 1/2"	NO. 5	36"	36"
	NO. 4*	30"	24"**

* 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

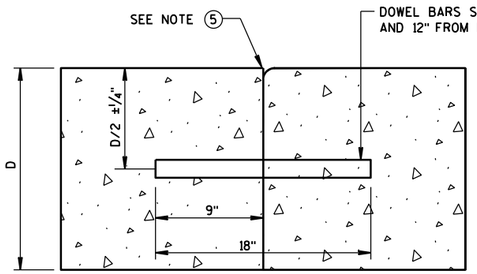
1. USE DOWELED EXPANSION JOINTS ON SIDE ROADS AT INTERSECTIONS (TO ISOLATE THE SIDE ROAD FROM THE THROUGH STREET) IF THE SIDE ROAD IS CONCRETE PAVEMENT AND GREATER THAN 300 FEET IN LENGTH.
2. SPACE CONTRACTION JOINTS IN ACCORDANCE WITH 13C4, 13C11 OR 13C13.
3. LOCATE CONSTRUCTION JOINTS A MINIMUM OF 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.



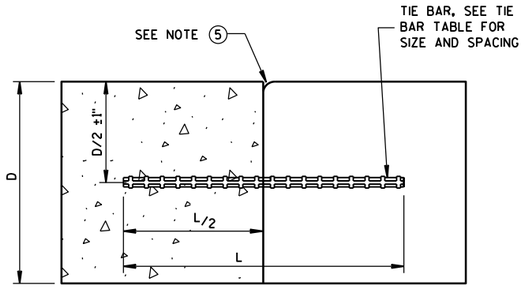
DOWELED-TRANSVERSE

CONTRACTION JOINTS

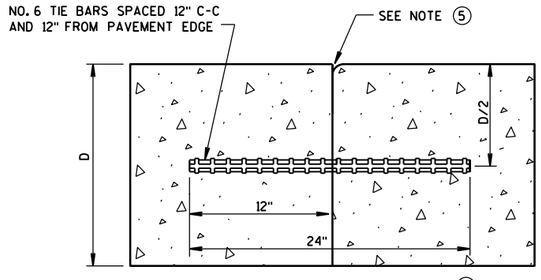
SEE NOTE (2)



DOWELED TRANSVERSE (3)

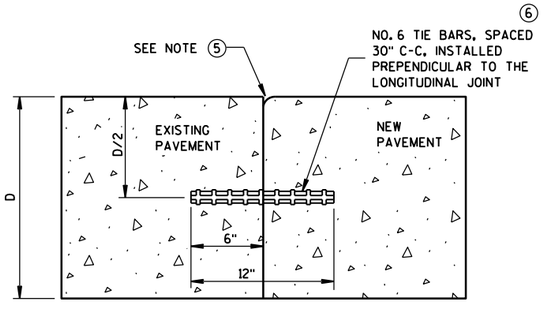


TIED LONGITUDINAL



TIED TRANSVERSE (3)

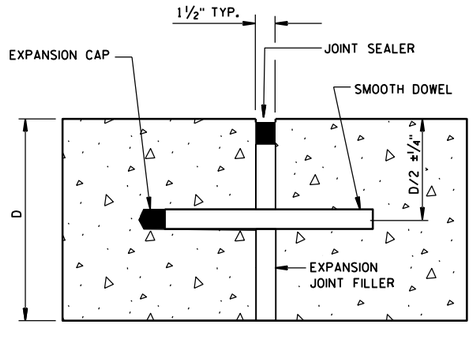
(FOR USE ON NON-DOWELED PAVEMENTS ONLY)



TIED LONGITUDINAL TO EXISTING

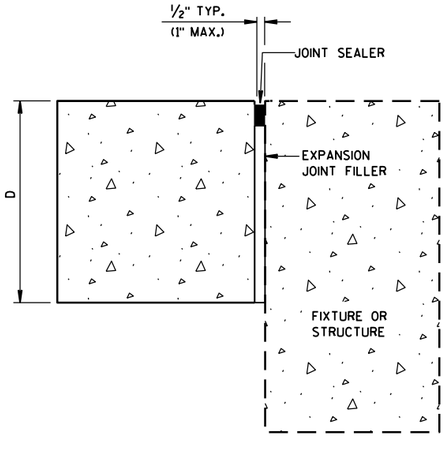
CONSTRUCTION JOINTS

SEE NOTE (4)



DOWELED-TRANSVERSE

SEE NOTE (1)



UNTIED-LONGITUDINAL

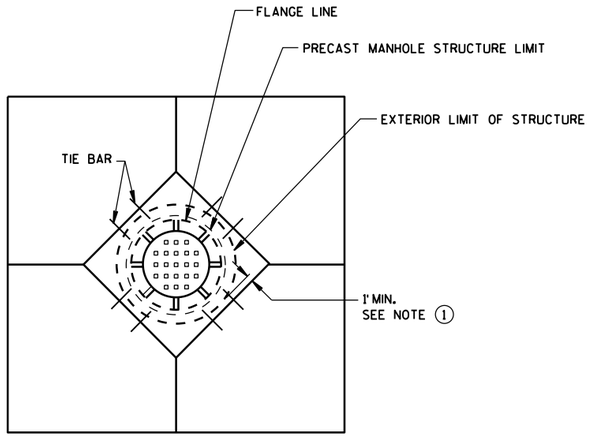
EXPANSION JOINTS

CONCRETE PAVEMENT
JOINT TYPES

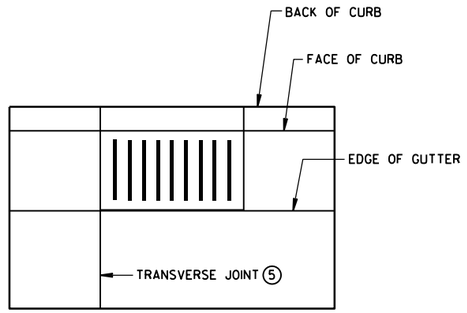
STATE OF WISCONSIN
DEPARTMENT OF TRANSPOI

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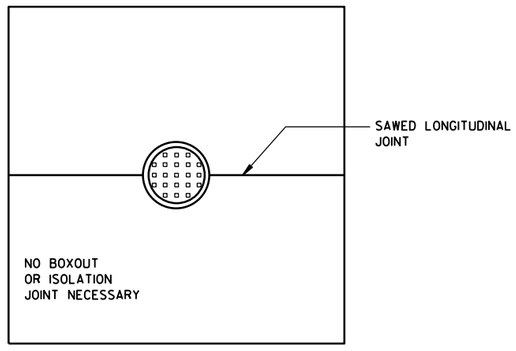
S.D.D. 13 C 18-3c



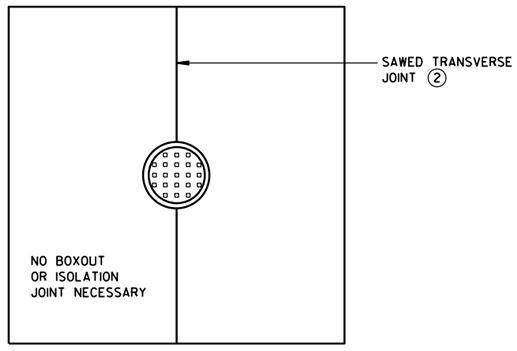
DIAGONAL MANHOLE BOXOUT FOR CONSTRUCTION JOINTS



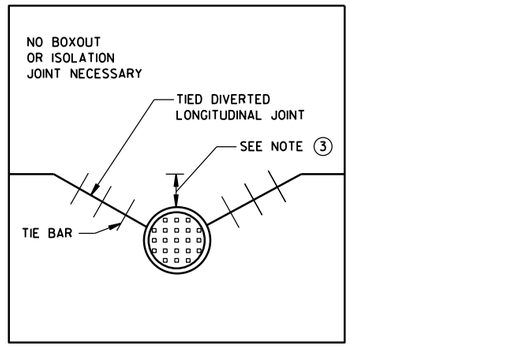
INLET WITH TRANSVERSE JOINT



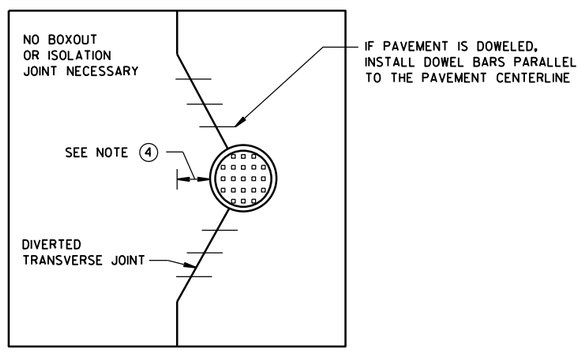
MANHOLE WITH LONGITUDINAL JOINT



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

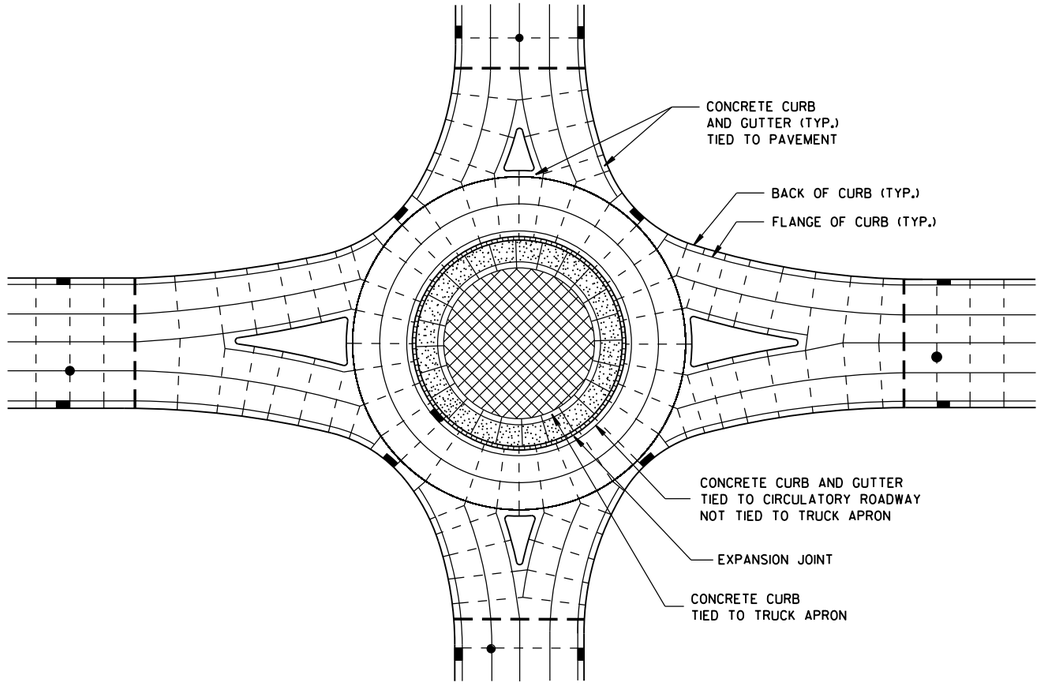
APPROVED
June, 2015 — DATE
/S/ Peter Kemp, P.E. — PAVEMENT SUPER
FHWA

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S.D.D. 13 C 18-3d

LEGEND

- DOWELED JOINT
- TIED JOINT
- EXPANSION JOINT
- POTENTIAL DOWELED EXPANSION JOINT
- TRUCK APRON
- CENTRAL ISLAND
- UTILITY STRUCTURES



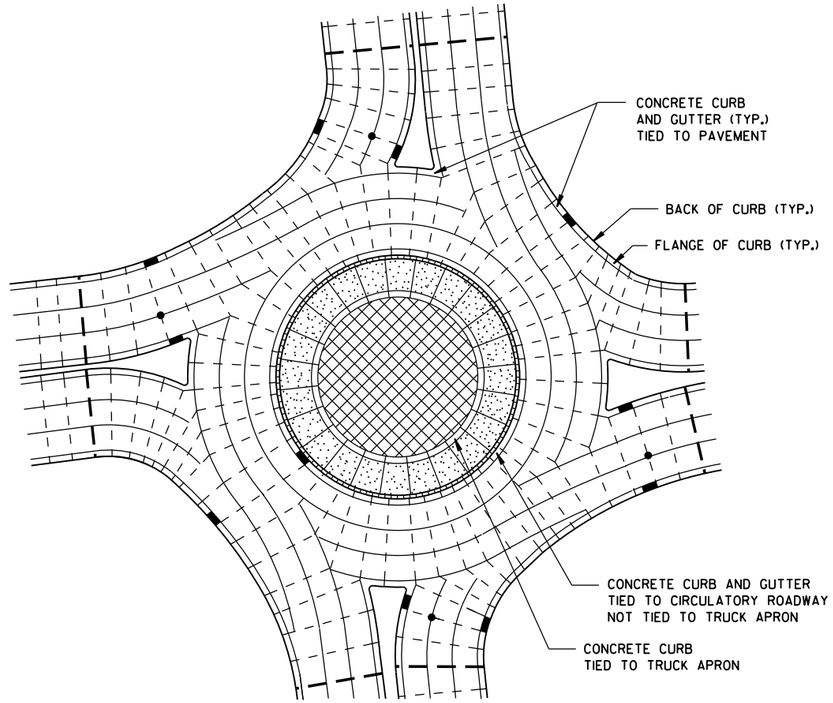
ISOLATED CIRCLE JOINT LAYOUT FOR ROUNDABOUTS

GENERAL NOTES

MAXIMUM JOINT SPACING IS IN ACCORDANCE WITH THE TABLE SHOWN ON SDD 13C18 SHEET "a".

USE AN EXPANSION JOINT FILLER MEETING THE REQUIREMENTS OF STANDARD SPECIFICATION 415.

DO NOT DOWEL OR TIE THE TRUCK APRON TRANSVERSE JOINTS.

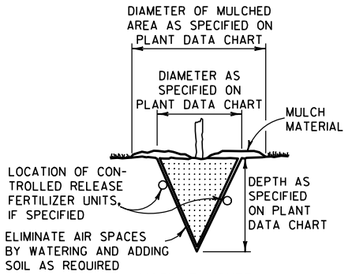


PINWHEEL JOINT LAYOUT FOR ROUNDABOUTS

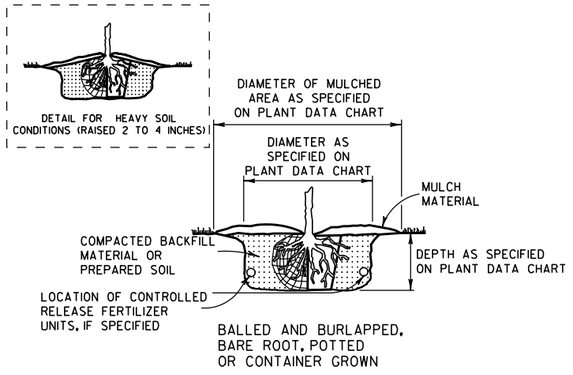
CONCRETE PAVEMENT JOINTING AND STEEL REINFORCEMENT IN ROUNDABOUTS	
STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION	
APPROVED	
June, 2015 DATE	/S/ Peter Kemp, P.E. PAVEMENT SUPE
FHWA	

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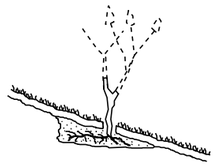
S.D.D. 13 C 18-3e



MACHINE MOVED

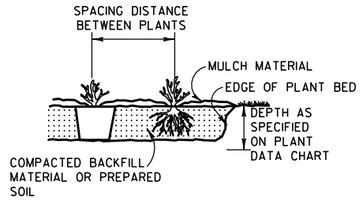


BALLED AND BURLAPPED, BARE ROOT, POTTED OR CONTAINER GROWN



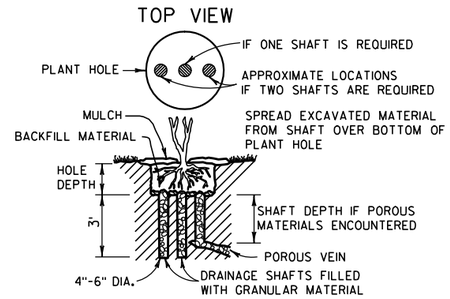
ACCOMMODATE ROOTS (SMOOTH AND STAGHORN SUMAC)

NOTE:
1) ENGINEER SHALL REQUIRE 3 SLITS IN POT TO SPEED DETERIORATION
2) METAL, PLASTIC OR OTHER NONDEGRADABLE POTS SHALL BE REMOVED PRIOR TO PLANTING



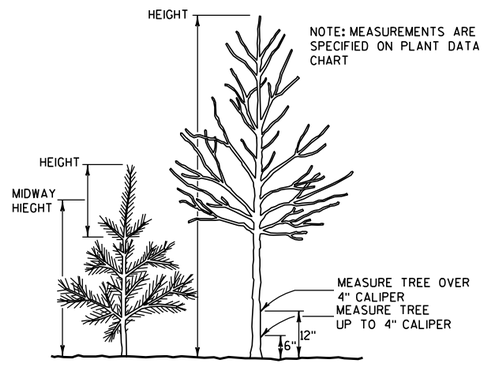
PREPARED BED (BARE ROOT AND POTTED)

PLANTING

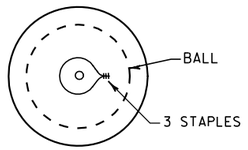


NOTE:
DRAINAGE SHAFT AS SPECIFIED ON PLANT DATA CHART

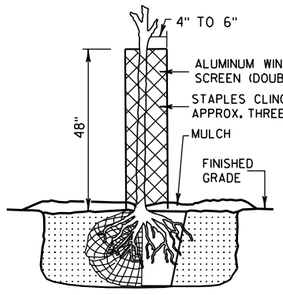
DRAINING



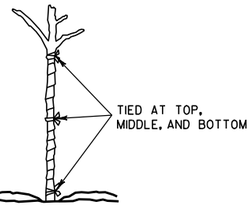
MEASURING



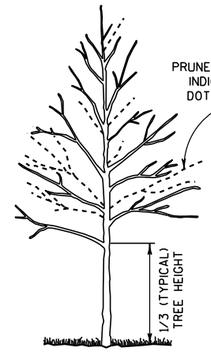
TOP VIEW



RODENT PROTECTION



WRAPPING

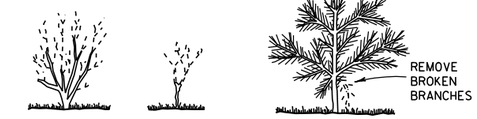


TALL DECIDUOUS TREES (ASH, MAPLE, LINDEN, OAK)

SINGLE STEMMED LOW DECIDUOUS TREES (CRABS AND OTHER SINGLE STEM TYPE)

MULTI-STEMMED LOW DECIDUOUS TREES OR LARGE SHRUBS (HAWTHORN, SERVICEBERRY)

NOTE: WHEN PRUNING, PRESERVE CHARACTER AND SHAPE OF TREE. AVOID LEAVING STUBS - REMOVE BRANCH OR TWIG BACK TO THE NEAREST CROTCH
1) PRUNE TO REMOVE DEAD AND BROKEN BRANCHES
2) PRUNE TO REMOVE BRANCHES THAT TOUCH OR ARE TOO CLOSE TO OTHER BRANCHES

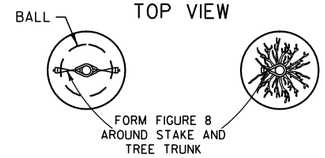


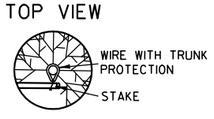
SHRUBS (GRAY DOGWOOD ARROWWOOD VIBURNUM)

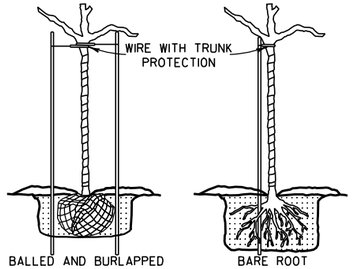
SUMAC

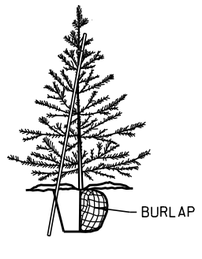
TREE TYPE EVERGREENS (PINE, SPRUCE, FIR) EVERGREENS USUALLY ARE NOT PRUNED

PRUNING



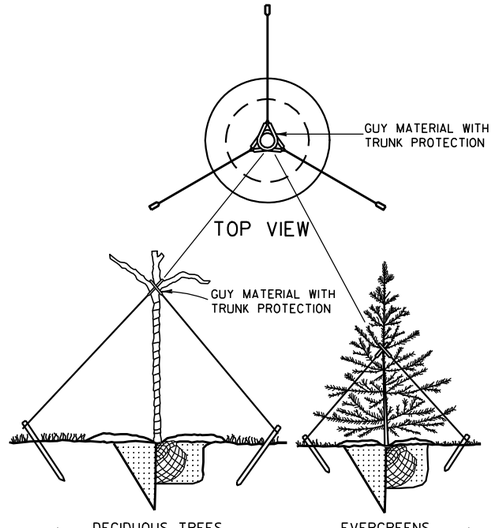




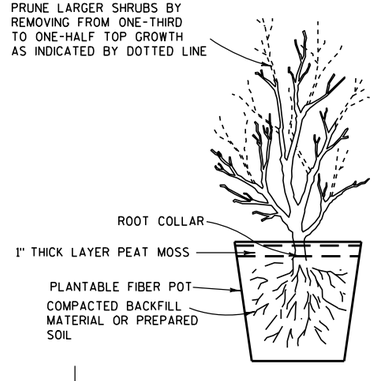


NOTE: BRACING STAKE
1) SHALL BE DRIVEN INTO THE GROUND AS CLOSE TO THE TREE AS POSSIBLE WITHOUT DAMAGING THE BRANCHES.
2) MAY BE DRIVEN AT SUCH AN ANGLE THAT IT DOES NOT PENETRATE THE BALL OR POT.
3) SHALL NOT PROTRUDE ABOVE THE TOP OF THE TREE; AND
4) SHALL HAVE A HOLE NEAR THE TOP TO HOLD THE WIRE IN PLACE.

BRACING



GUYING



POTTING

NOTES

DETAILS OF CONSTRUCTION NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS AND THE APPLICABLE SPECIAL PROVISIONS.

BRACING, WRAPPING, GUYING, RODENT PROTECTION, FERTILIZER AND MULCH SHALL BE USED ONLY WHEN SPECIFIED ON THE PLANT DATA CHART (PART OF PLAN) OR SPECIAL PROVISIONS.

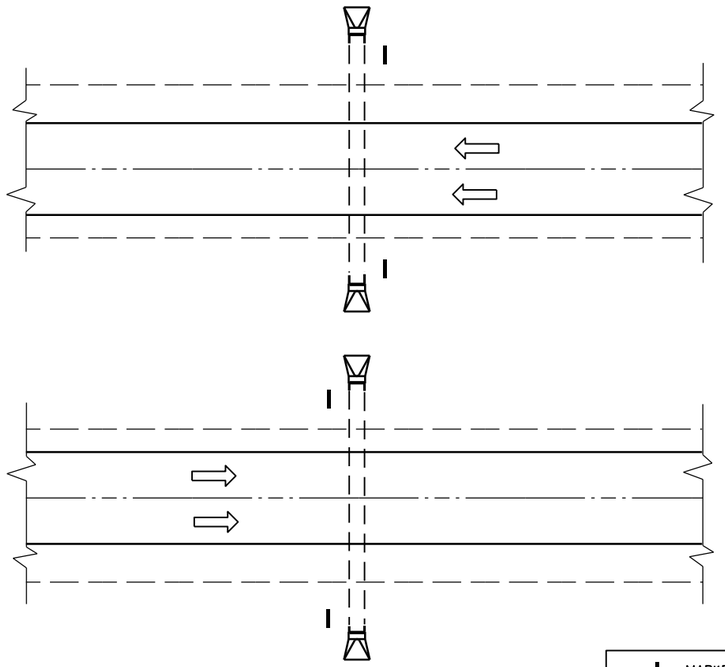
TREE PLANTING DETAIL

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
4/11/94 — DATE
/S/ Rory L. Rhinesmith — CHIEF METHODS DEVELOPMENT ENGINEER
FHWA

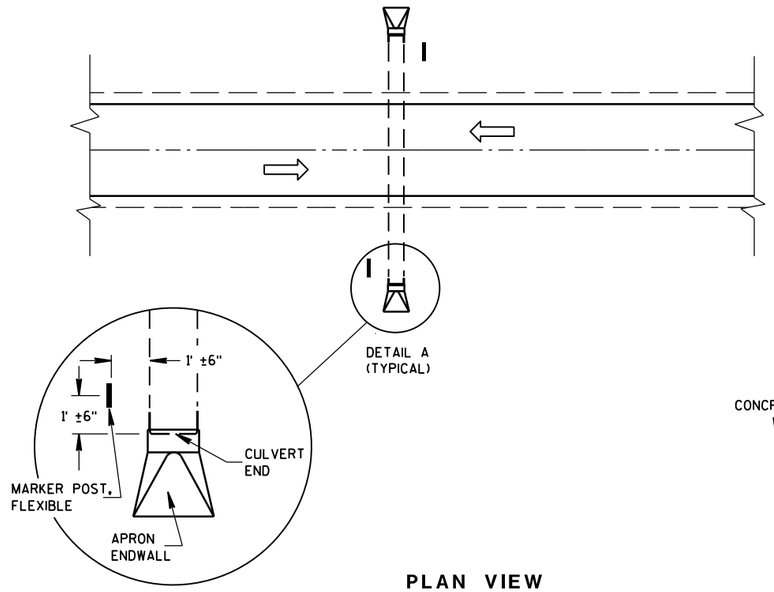
S.D.D. 14 A 2-1

S.D.D. 14 A 2-1



PLAN VIEW

DIVIDED HIGHWAY



DETAIL A
(TYPICAL)

PLAN VIEW

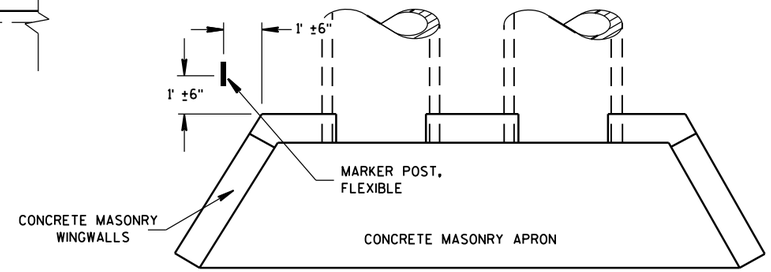
UNDIVIDED HIGHWAY

MARKER POST, FLEXIBLE

DIRECTION OF TRAFFIC FLOW

GENERAL NOTES

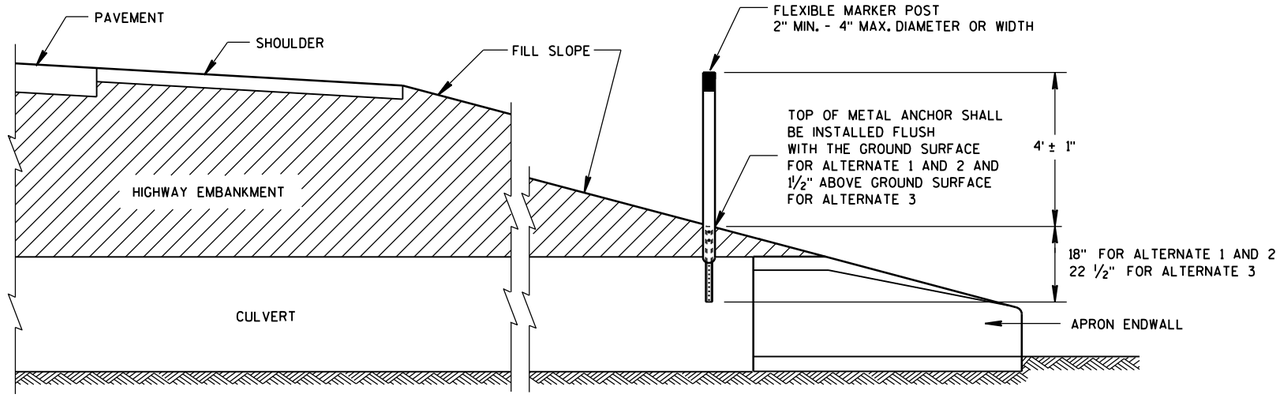
DETAILS OF CONSTRUCTION, MATERIALS AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS AND THE APPLICABLE SPECIAL PROVISIONS.



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

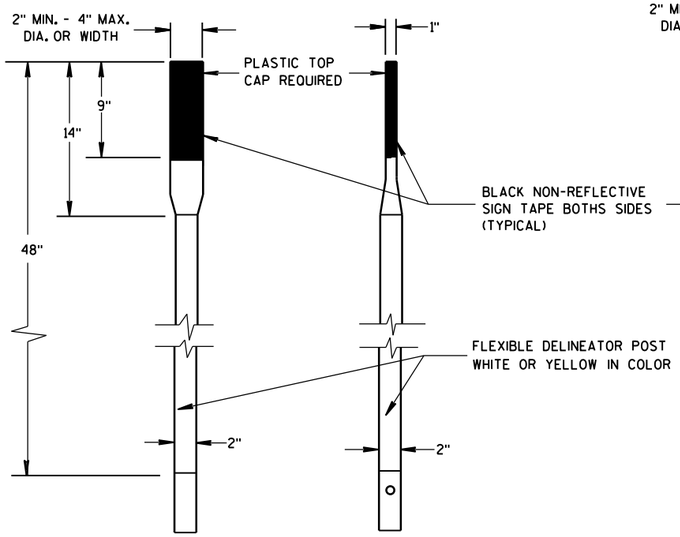
STATE OF WISCONSIN
DEPARTMENT OF TRANSPOI

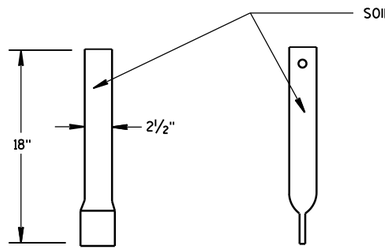
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S.D.D. 15 A 3-2a

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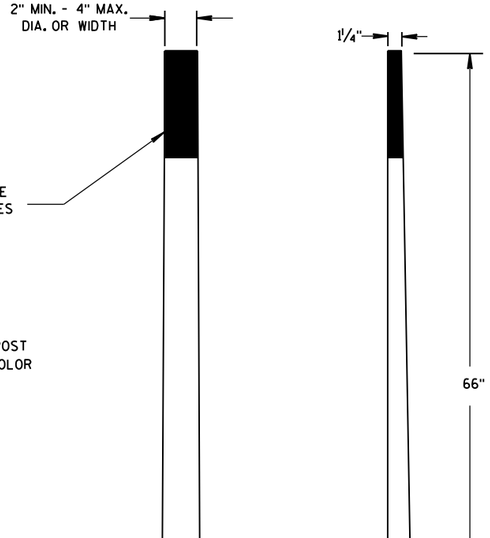
S.D.D. 15 A 3-2a





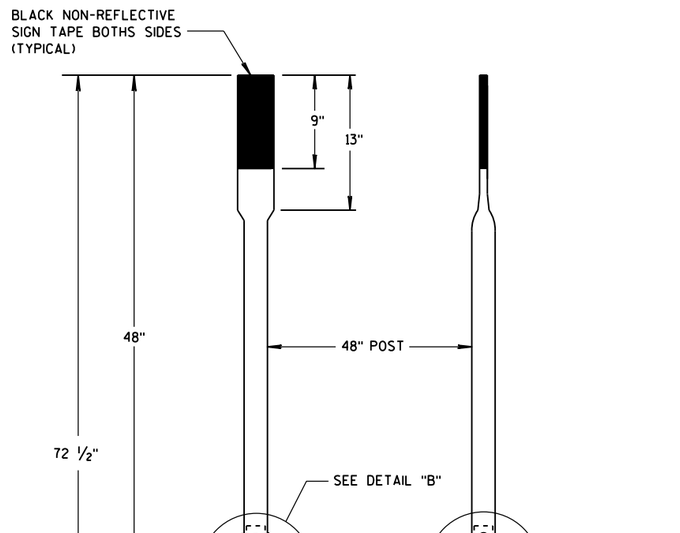
FRONT VIEW SIDE VIEW

ALTERNATE 1



FRONT VIEW SIDE VIEW

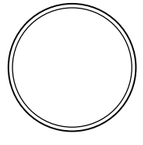
ALTERNATE 2



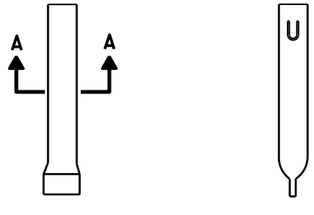
FRONT VIEW SIDE VIEW

ALTERNATE 3

FLEXIBLE MARKER POSTS

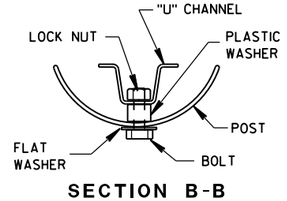


SECTION A-A

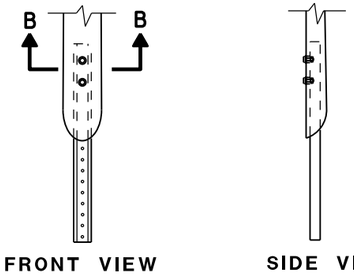


FRONT VIEW SIDE VIEW

ALTERNATE 1

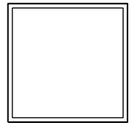


SECTION B-B

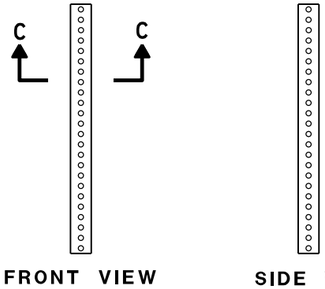


FRONT VIEW SIDE VIEW

ALTERNATE 2



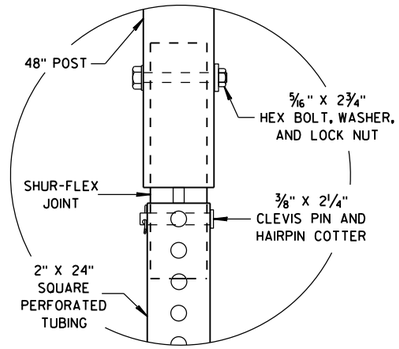
SECTION C-C



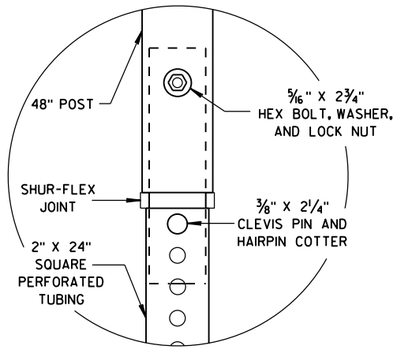
FRONT VIEW SIDE VIEW

ALTERNATE 3

FLEXIBLE MARKER POST ANCHORS



DETAIL B



DETAIL C

FLEXIBLE MARKER POST
FOR CULVERT END

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

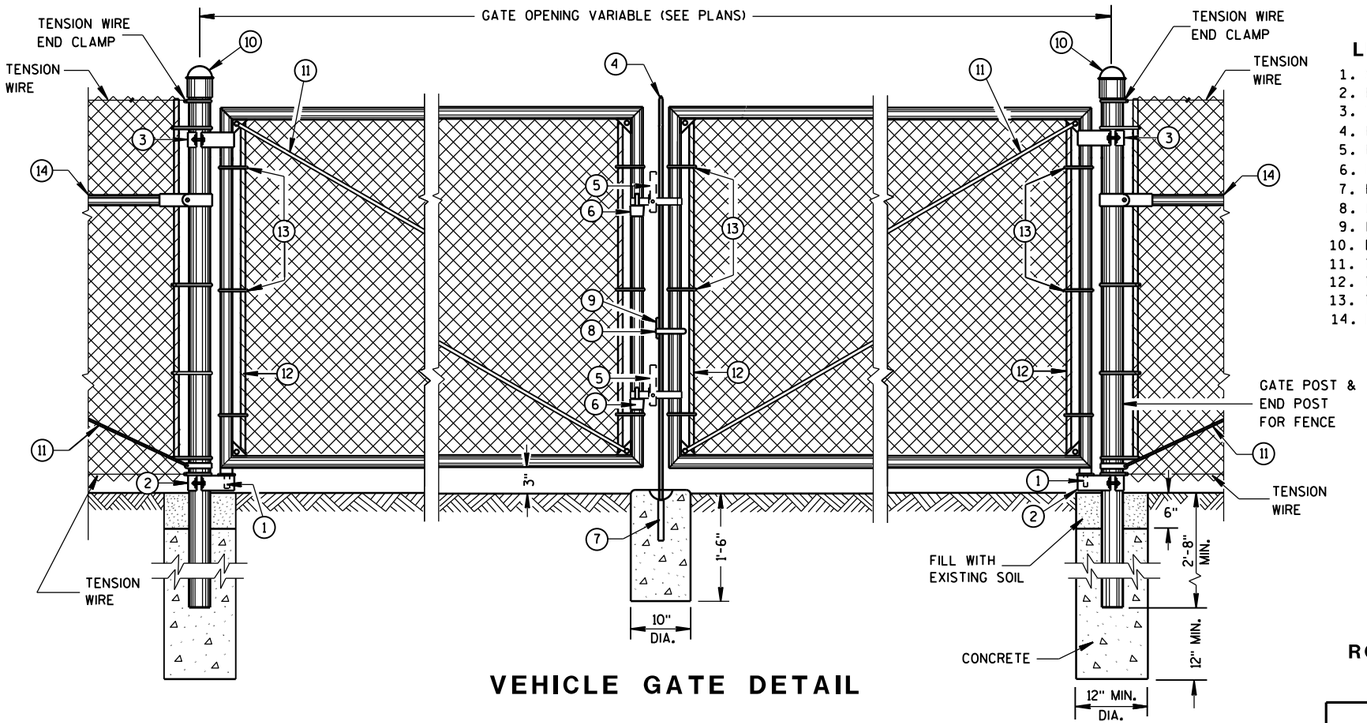
APPROVED
10/1/2012 — DATE
/S/ Travis Feltes — STATE TRAFFIC ENGINEER
271
IGN
FHWA

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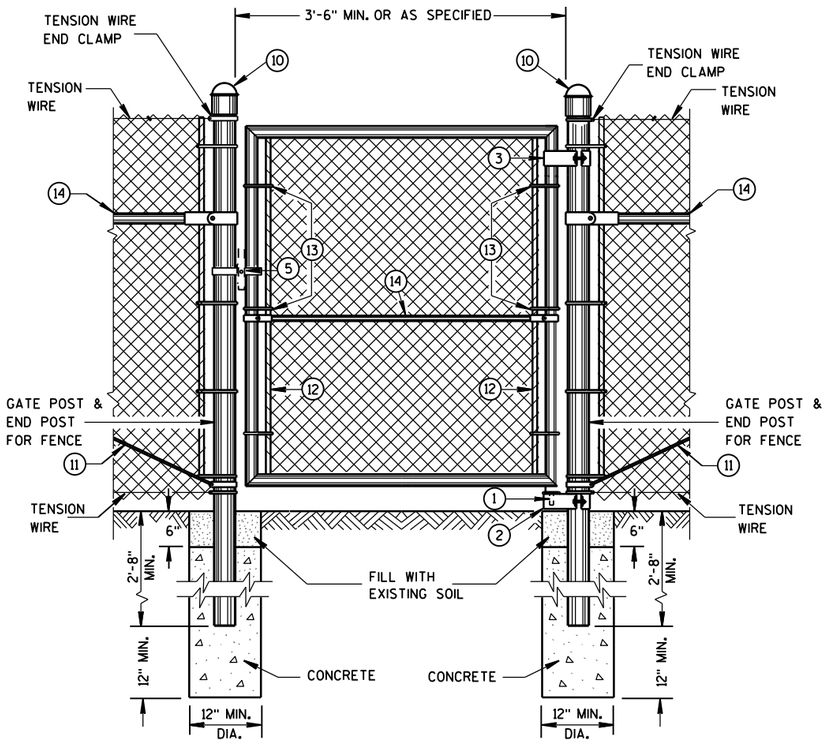
S.D.D. 15 A 3-2b

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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.

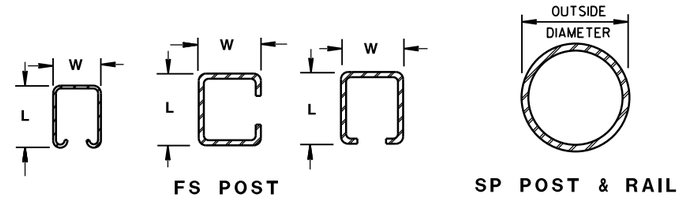
USE FENCE FABRIC KNUCKLED AT BOTH SELVAGES.

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

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

BRACE RAIL TYPES

USE		TYPE
BRACE RAIL		SP1 OR FS1

** INCLUDES END, CORNER, ANGLE, INTERSECTION AND INTERMEDIATE BRACED POSTS

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

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

ROUND STEEL FENCE POST (1.8 OZ./SQ. FT. COATING)

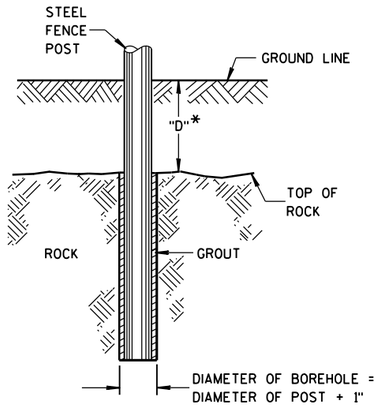
POST TYPE	OUTSIDE DIMENSION INCH	WALL THICKNESS INCH	WEIGHT LBS/FT
SP1	1.660	0.140	2.270
SP2	1.900	0.145	2.720
SP3	2.375	0.154	3.650
SP4	2.875	0.203	5.800
SP5	4.000	0.226	9.120
SP6	6.625	0.280	18.990
SP7	8.625	0.322	28.580

FENCE CHAIN LINK

STATE OF WISCONSIN
DEPARTMENT OF TRANSPOR

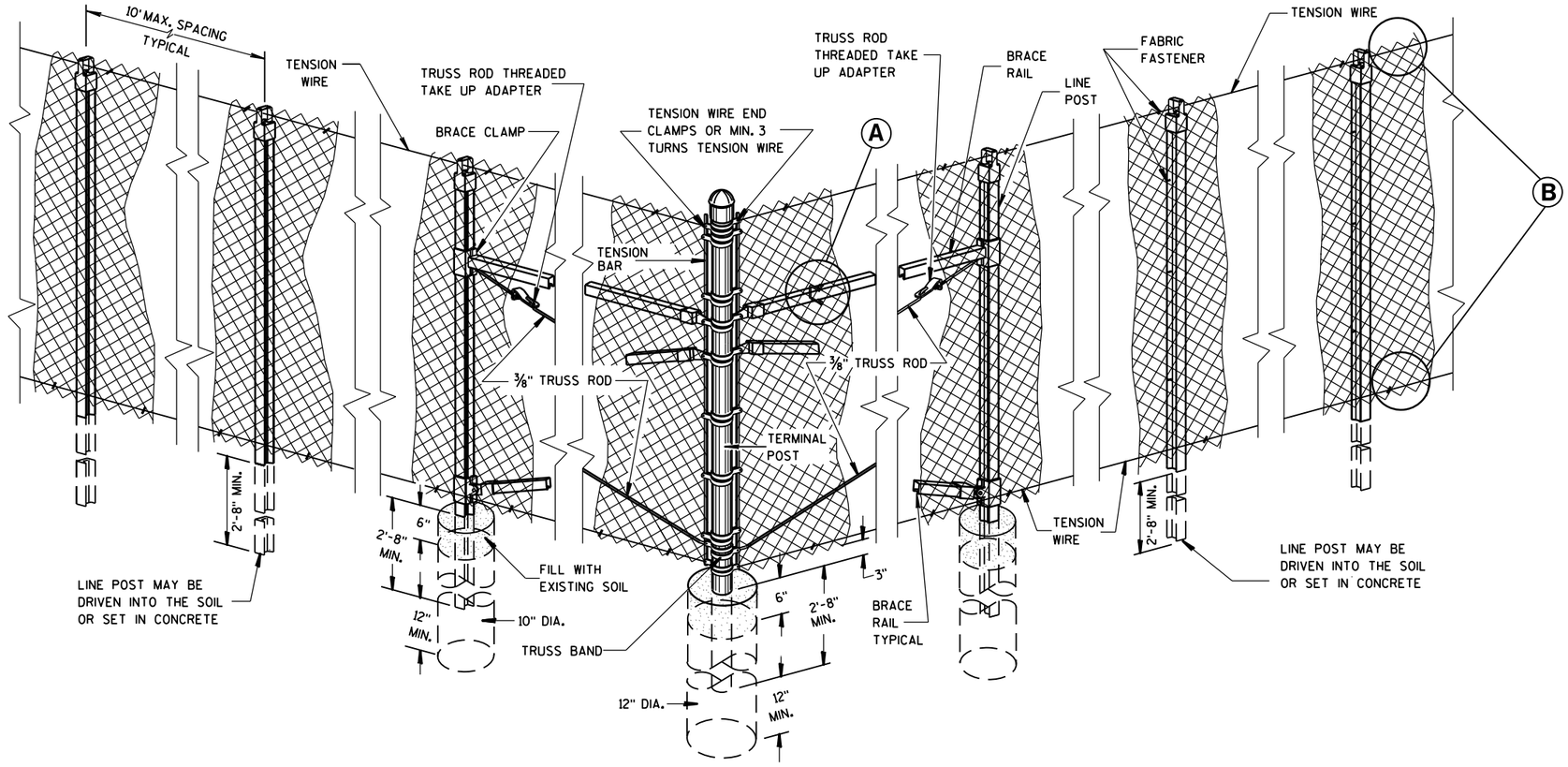
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S.D.D. 15 B 3-15a
S.D.D. 15 B 3-15a

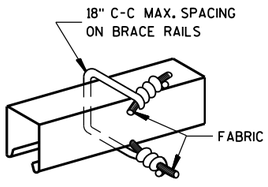


*IF "D" IS LESS THAN 2'-6", DRILL ROCK AND INSTALL GROUT

ROCK INSTALLATION OF LINE POST



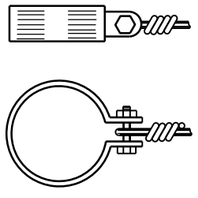
END, CORNER, ANGLE INTERSECTION & INTERMEDIATE BRACED POSTS



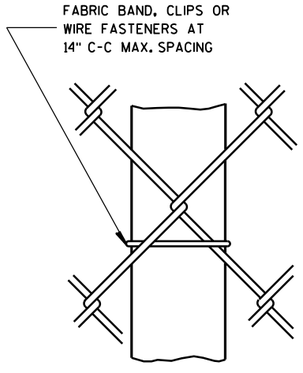
BRACE RAIL

FABRIC FASTENER

Ⓐ



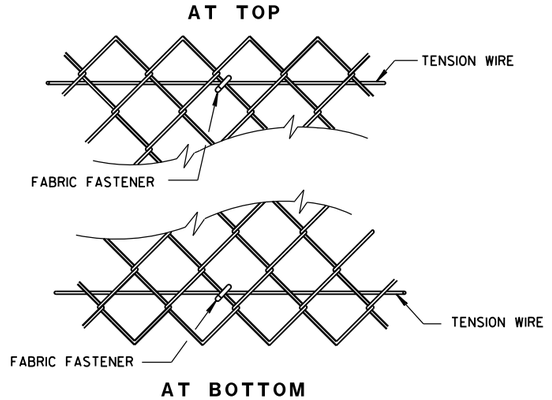
TENSION WIRE END CLAMP



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

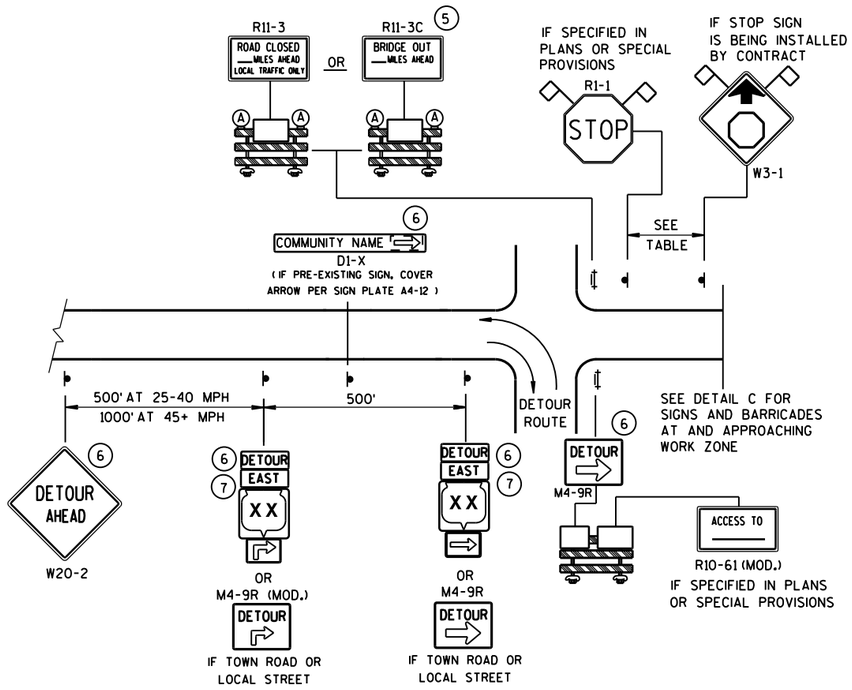
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S.D.D. 15 B 3-15b

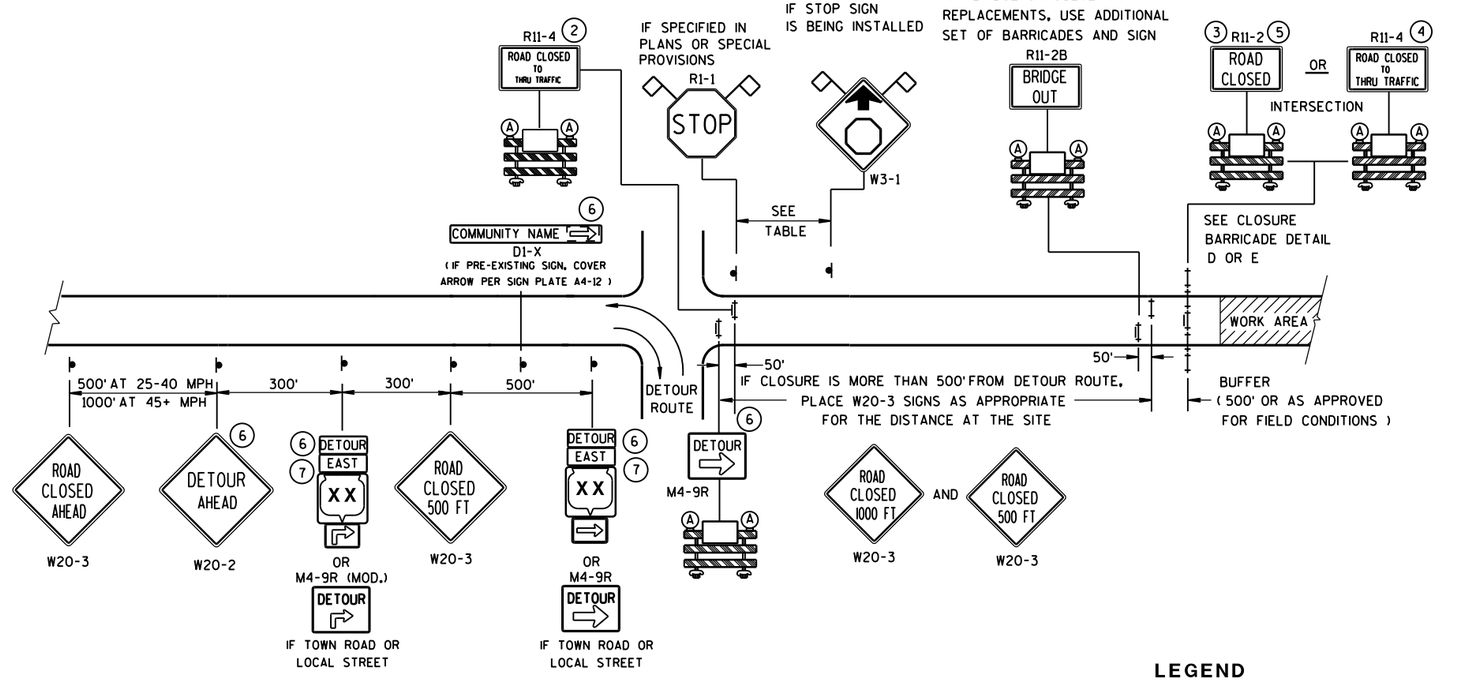
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S.D.D. 15 B 3-15b



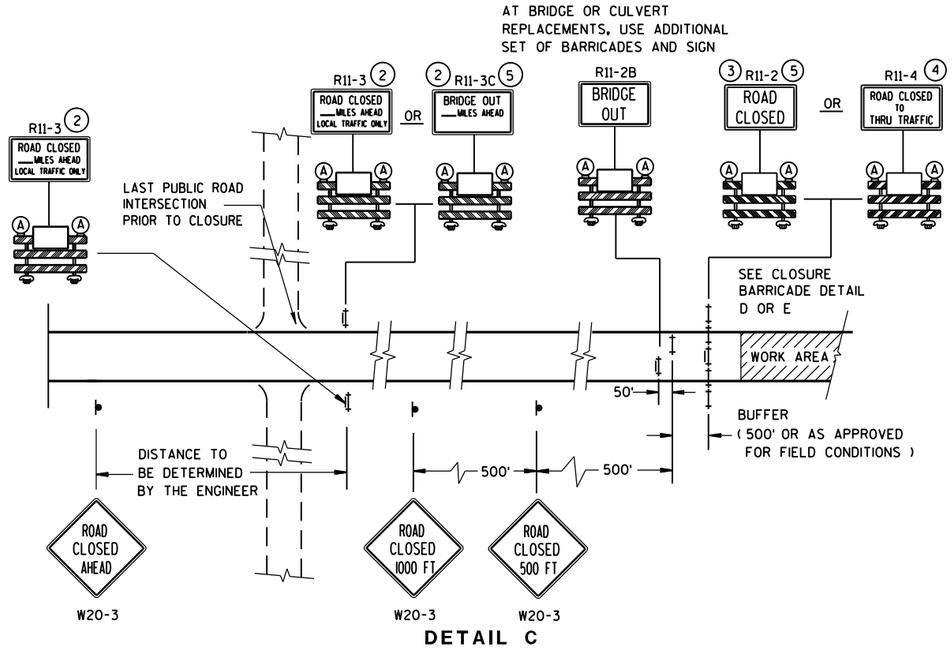
DETAIL A
MAINLINE CLOSURE WITH POSTED DETOUR

WORK ZONE GREATER THAN ½ MILE FROM DETOUR ROUTE (1000 FEET IF URBAN)



DETAIL B
MAINLINE CLOSURE WITH POSTED DETOUR

WORK ZONE LESS THAN ½ MILE FROM DETOUR ROUTE (1000 FEET IF URBAN)



DETAIL C
MAINLINE CLOSURE, NO POSTED DETOUR

SPEED LIMIT (MPH)	"STOP AHEAD" ADVANCE WARNING DISTANCE (FT)
25	200
30	200
35	350
40	350
45	500
50	550
55	750

SEE SDD 15C2-SHEET "**b**"
FOR GENERAL NOTES
AND FOOTNOTES ① THROUGH ⑦

LEGEND

- SIGN ON PERMANENT SUPPORT
- TYPE III BARRICADE
- TYPE III BARRICADE WITH ATTACHED SIGN
- (A) TYPE "A" WARNING LIGHT (FLASHING)
- WORK AREA
- DETOUR / EAST — M4-8 / M3-X
- XX — M1-4; COUNTY XX — M1-5A; XX — M1-6
- M05-1 OR M06-1
- FLAGS, 16" X 16" MIN., (ORANGE)

BARRICADES AND SIGNS FOR MAINLINE CLOSURES

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

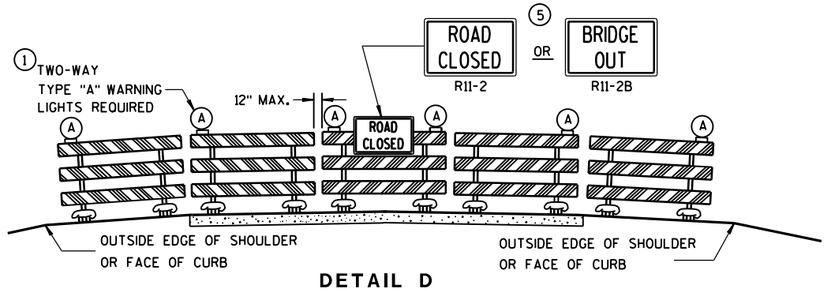
8/2013 DATE

/S/ Travis Feltes
STATE TRAFFIC ENGINEER

FHWA

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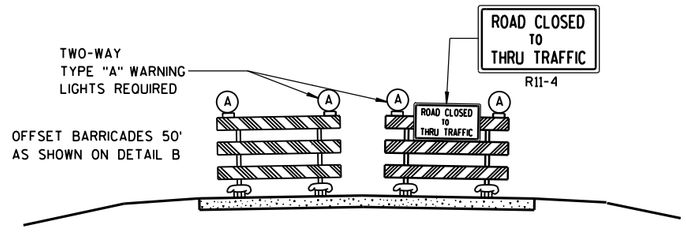
S.D.D. 15 C 2-5a



DETAIL D

ROAD CLOSURE BARRICADE DETAIL

APPROACH VIEW



DETAIL E

LANE CLOSURE BARRICADE DETAIL

APPROACH VIEW

SEE SDD 15C2-SHEET "**a**" FOR LEGEND

GENERAL NOTES

THE EXACT NUMBER, LOCATION, AND SPACING OF ALL SIGNS AND BARRICADES SHALL BE ADJUSTED TO FIT FIELD CONDITIONS AS APPROVED BY THE ENGINEER.

ANY SIGNS TEMPORARY OR EXISTING, WHICH CONFLICT WITH TRAFFIC CONTROL "IN USE" SHALL BE REMOVED OR COVERED AS NEEDED AND AS APPROVED BY THE ENGINEER.

THE SPACING BETWEEN TRAFFIC CONTROL SIGNS SHOULD BE ADJUSTED TO NOT CONFLICT WITH AND SHOULD PROVIDE A DESIRABLE MINIMUM OF 200 FEET CLEARANCE TO EXISTING SIGNS THAT WILL REMAIN IN PLACE.

BARRICADES THAT MUST BE MOVED FOR A WORK OPERATION SHALL BE IMMEDIATELY RE-ESTABLISHED UPON COMPLETION OF THE OPERATION OR, FOR CONTINUING OPERATIONS, AT THE END OF EACH WORKING DAY.

SIGNS THAT WILL BE IN PLACE LESS THAN 7 CONTINUOUS DAYS AND NIGHTS MAY BE MOUNTED ON PORTABLE SUPPORTS.

ALL TYPE III BARRICADES SHALL HAVE RAILS REFLECTORIZED ON BOTH FACES. STRIPES SHALL BE PROPERLY SLOPED DOWN TOWARD THE TRAFFIC SIDE OR AS SHOWN IN THE ROAD CLOSURE BARRICADE DETAIL D FOR FULL ROAD CLOSURES.

TYPE "A" LOW-INTENSITY FLASHING WARNING LIGHTS SHALL BE VISIBLE ON BOTH SIDES OF THE BARRICADE.

THE R11-2, R11-3, M4-9, R11-4 AND R10-61 SIGNS PLACED ON BARRICADES SHALL COVER NO MORE THAN THE TOP RAIL. THE SIGNS SHALL NOT COVER ANY PORTION OF THE MIDDLE OR BOTTOM RAILS.

"WO AND "MO" SIGNS ARE THE SAME AS "W" AND "M" SIGNS EXCEPT THE BACKGROUND IS ORANGE.

ALL SIGNS SHALL BE 48" X 48" UNLESS OTHERWISE NOTED BELOW:
- R11-2 SHALL BE 48" X 30".
- R11-3, R11-4 AND R10-61 SHALL BE 60" X 30".
- M4-9 SHALL BE 30" X 24".
- M3-X SHALL BE 24" X 12". (36" X 18" IF NEEDED TO MATCH EXISTING SIGNS.)
- M4-8 SHALL BE 24" X 12". (30" X 15" IF NEEDED TO MATCH EXISTING SIGNS.)
- M1-4, M1-5A, AND M1-6 SHALL BE 24" X 24". (36" X 36" IF NEEDED TO MATCH EXISTING SIGNS.)
- M05-1 AND M06-1 SHALL BE 21" X 21". (30" X 30" IF NEEDED TO MATCH EXISTING SIGNS.)
- D1-X SHALL BE AS SHOWN ON SPECIFIC PROJECT SIGNING DETAIL SHEETS.
- R1-1 SHALL BE 36" X 36".

(1) TWO WARNING LIGHTS SHALL BE PROVIDED ON THE CENTER BARRICADE AND A MINIMUM OF ONE WARNING LIGHT SHALL BE PROVIDED ON EACH OF THE OTHER BARRICADES WITHIN THE ROADWAY LIMITS. SPACING OF THE WARNING LIGHTS SHALL BE UNIFORM TO THE EDGE OF ROADWAY AS SHOWN (APPROX. 8-FOOT LIGHT SPACING).

(2) THESE SIGNS AND BARRICADES ARE NOT REQUIRED IF ROAD CLOSURE BEGINS AT INTERSECTION.

(3) FOR ROAD CLOSURE WITHOUT LOCAL ACCESS TO PROJECT, SEE ROAD CLOSURE BARRICADE DETAIL D.

(4) FOR ROAD CLOSURE WITH LOCAL ACCESS TO PROJECT, SEE LANE CLOSURE BARRICADE DETAIL E.

(5) FOR BRIDGE OR CULVERT REPLACEMENTS, SUBSTITUTE "BRIDGE OUT" INSTEAD OF "ROAD CLOSED" ON R11-2 AND R11-3 SIGNS.

(6) INSTALL DETOUR AND COMMUNITY GUIDE SIGNS AND ARROWS ONLY IF SPECIFIED IN THE CONTRACT. IF THERE ARE EXISTING ROUTE MARKER ASSEMBLIES THAT WILL REMAIN IN PLACE, ADJUST THE LOCATION OF THE DETOUR ROUTE SIGNS TO CORRESPOND WITH THE EXISTING ASSEMBLIES. MODIFY EXISTING SIGNS WHERE POSSIBLE. SEE SPECIFIC PROJECT DETOUR SIGNING DETAIL SHEETS. IF DETOUR SIGNS ARE BEING INSTALLED BY OTHERS, PLACE THE CONTRACTED TRAFFIC CONTROL SIGNS TO ALLOW FOR PLACEMENT OF ALL WARNING, DETOUR AND GUIDE SIGNS AS SHOWN.

(7) "EAST" CARDINAL DIRECTION MARKERS AND RIGHT TURN ARROWS ARE SHOWN. USE OTHER CARDINAL DIRECTIONS AND ARROWS AS APPROPRIATE.

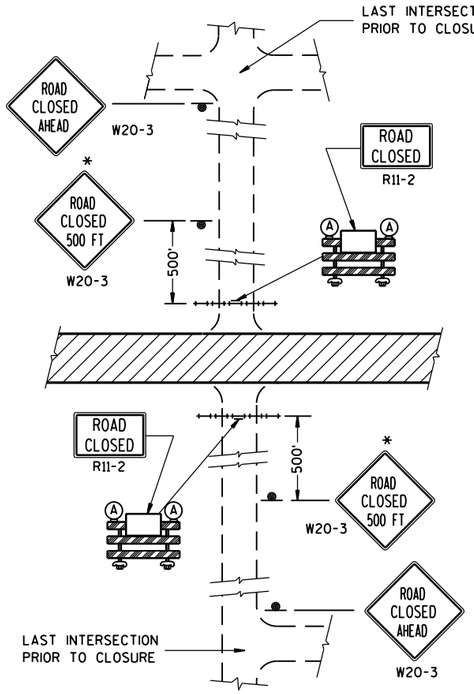
BARRICADES AND SIGNS FOR MAINLINE CLOSURES

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

8/2013 — DATE
/S/ Travis Feltes — STATE TRAFFIC ENGINEER
FHWA

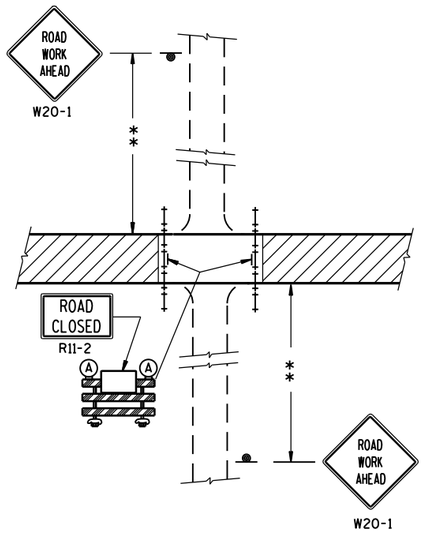
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S.D.D. 15 C 2-5b



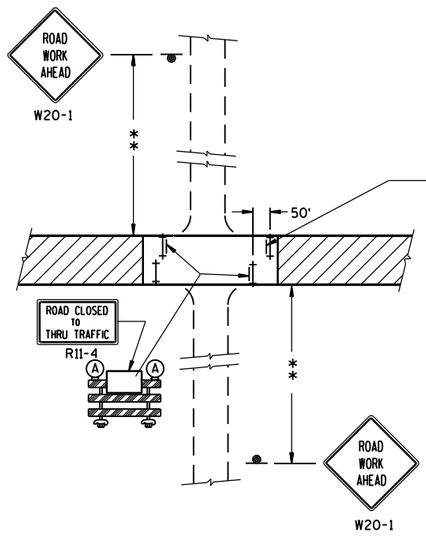
DETAIL 1

(NO ACCESS TO PROJECT)



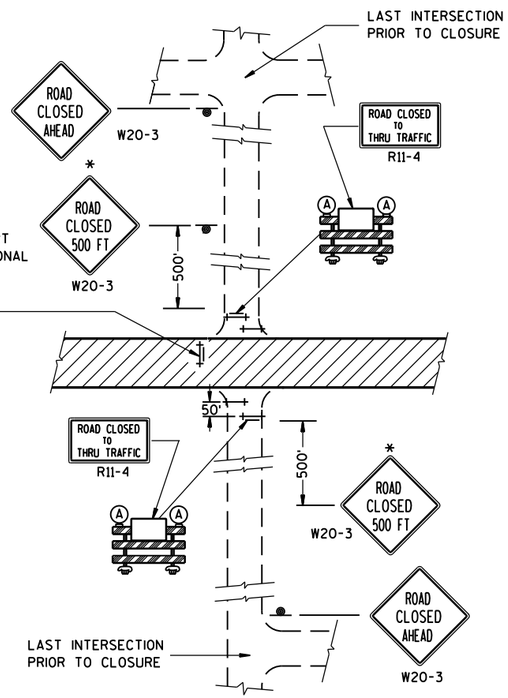
DETAIL 2

(PUBLIC CROSS-TRAFFIC MAINTAINED. NO ACCESS TO PROJECT).



DETAIL 3

(PUBLIC CROSS-TRAFFIC MAINTAINED. CONTRACTOR, LOCAL BUSINESS AND RESIDENT ACCESS).



DETAIL 4

(CONTRACTOR, LOCAL BUSINESS AND RESIDENT ACCESS TO PROJECT)

GENERAL NOTES

THE EXACT NUMBER, LOCATION, AND SPACING OF ALL SIGNS AND BARRICADES SHALL BE ADJUSTED TO FIT FIELD CONDITIONS AS APPROVED BY THE ENGINEER.

ANY SIGNS TEMPORARY OR EXISTING, WHICH CONFLICT WITH TRAFFIC CONTROL "IN USE" SHALL BE REMOVED OR COVERED AS NEEDED AND AS APPROVED BY THE ENGINEER.

THE SPACING BETWEEN TRAFFIC CONTROL SIGNS SHOULD BE ADJUSTED TO NOT CONFLICT WITH AND SHOULD PROVIDE A DESIRABLE MINIMUM OF 200 FEET CLEARANCE TO EXISTING SIGNS THAT WILL REMAIN IN PLACE.

IF A "STOP" SIGN MUST BE REMOVED FOR A WORK OPERATION, A TEMPORARY "STOP" SIGN SHALL BE PLACED PRIOR TO THE SIGN REMOVAL, OR A FLAGGER SHALL BE PROVIDED UNTIL THE SIGN IS RE-ESTABLISHED.

BARRICADES THAT MUST BE MOVED FOR A WORK OPERATION SHALL BE IMMEDIATELY RE-ESTABLISHED UPON COMPLETION OF THE OPERATION OR, FOR CONTINUING OPERATIONS, AT THE END OF EACH WORKING DAY.

SIGNS THAT WILL BE IN PLACE LESS THAN 7 CONTINUOUS DAYS AND NIGHTS MAY BE MOUNTED ON PORTABLE SUPPORTS.

ALL TYPE III BARRICADES SHALL HAVE RAILS REFLECTORIZED ON BOTH FACES. STRIPES SHALL BE PROPERLY SLOPED DOWN TOWARD THE TRAFFIC SIDE OR AS SHOWN IN THE ROAD CLOSURE BARRICADE DETAIL D FOR FULL ROAD CLOSURES.

TYPE "A" LOW-INTENSITY FLASHING WARNING LIGHTS SHALL BE VISIBLE ON BOTH SIDES OF THE BARRICADE.

THE R11-2, R11-3 AND R11-4 SIGNS PLACED ON BARRICADES SHALL COVER NO MORE THAN THE TOP RAIL. THE SIGNS SHALL NOT COVER ANY PORTION OF THE MIDDLE OR BOTTOM RAILS.

ALL SIGNS SHALL BE 48" X 48" UNLESS OTHERWISE NOTED BELOW:
R11-2 SHALL BE 48" X 30".
R11-4 AND R11-3 SHALL BE 60" X 30".

*OMIT THE "ROAD CLOSED 500 FT." SIGN IF THE LAST INTERSECTION IS 500 FT. OR LESS FROM THE WORK ZONE.

**500' MAX. OR AT LAST INTERSECTION WHICHEVER IS CLOSER.

LEGEND

- SIGN ON PERMANENT SUPPORT
- TYPE III BARRICADE
- TYPE III BARRICADE WITH ATTACHED SIGN
- (A) TYPE "A" WARNING LIGHT (FLASHING)
- WORK AREA

BARRICADES AND SIGNS FOR SIDEROAD CLOSURES

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
8/2013
DATE
/S/ Travis Feltes
STATE TRAFFIC ENGINEER
FHWA

6

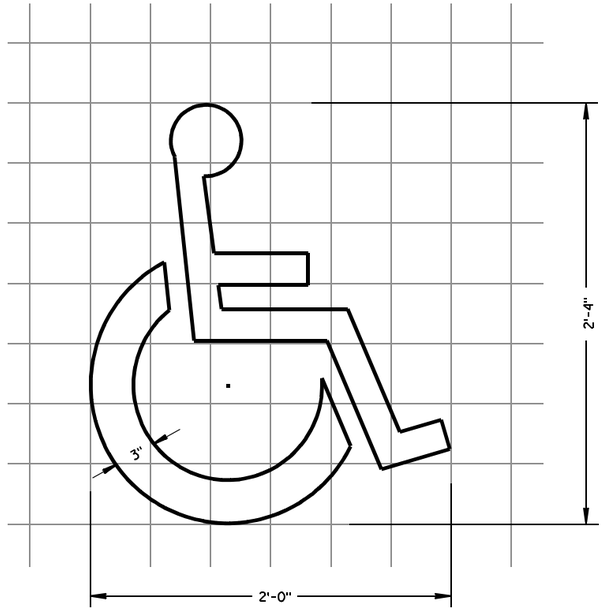
S.D.D. 15 C 3-2

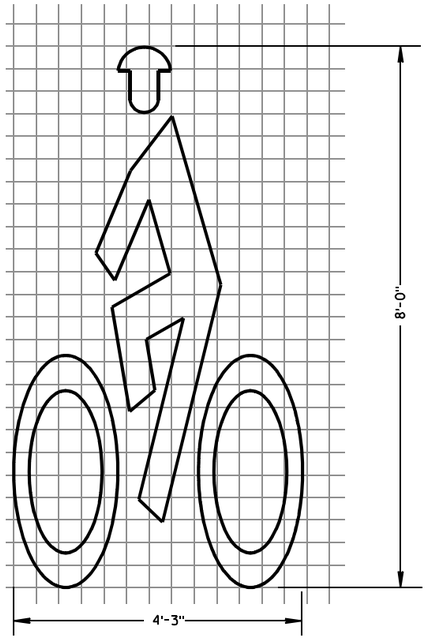
GENERAL NOTES

DETAILS OF INSTALLATION, MATERIALS AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS AND APPLICABLE SPECIAL PROVISIONS.

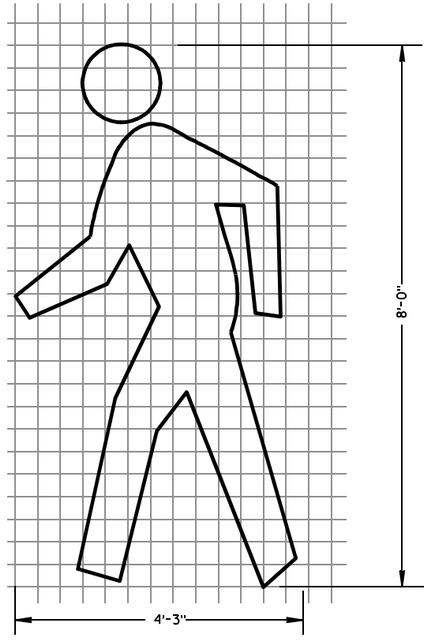
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A DETAILED DRAWING OF THE HANDICAPPED PARKING SYMBOL IS ILLUSTRATED IN THE "STANDARD HIGHWAY SIGNS MANUAL" BY THE FEDERAL HIGHWAY ADMINISTRATION.

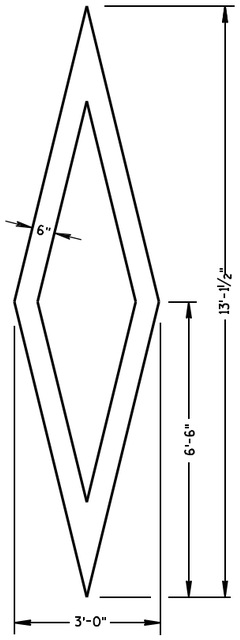




BIKE CROSSING SYMBOL



PEDESTRIAN SYMBOL



PREFERENTIAL LANE SYMBOL

6

6

S.D.D. 15 C 7-12a

S.D.D. 15 C 7-12a

PAVEMENT MARKING SYMBOLS

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED

7/1/11
DATE

/S/ Thomas N Nathan
STATE TRAFFIC ENGINEER

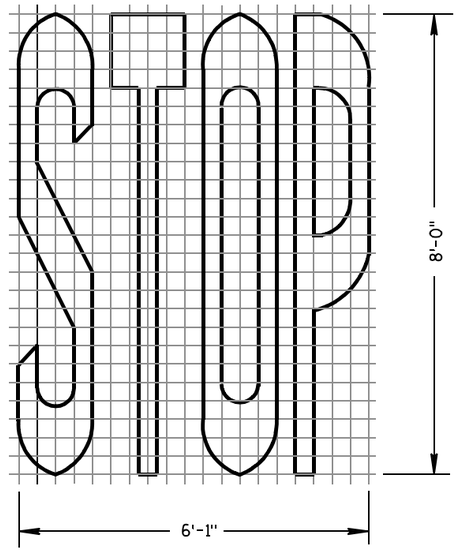
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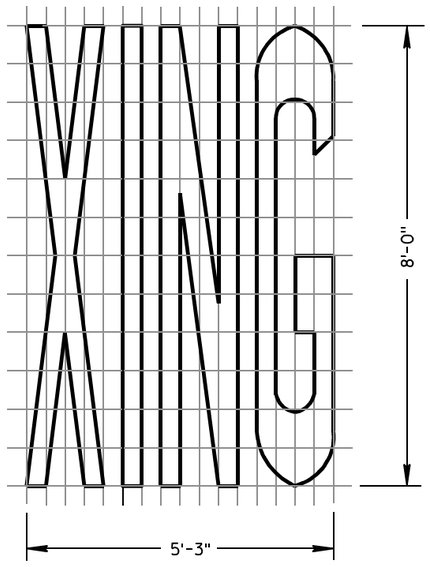
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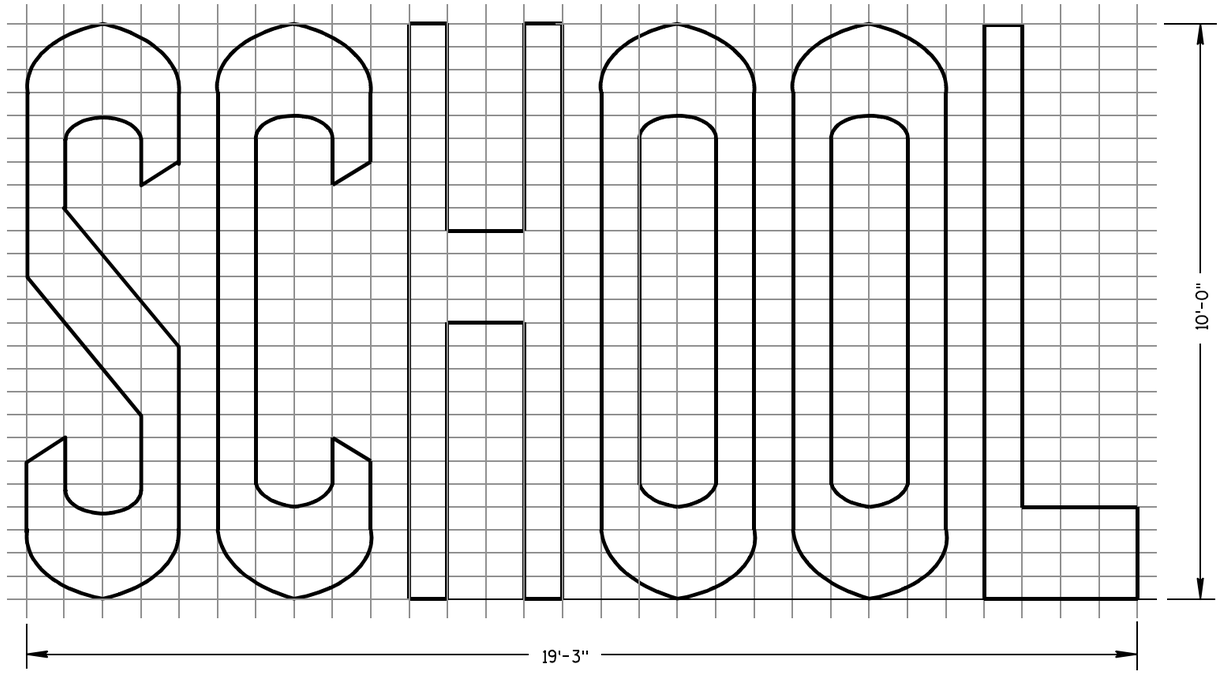
GENERAL NOTES

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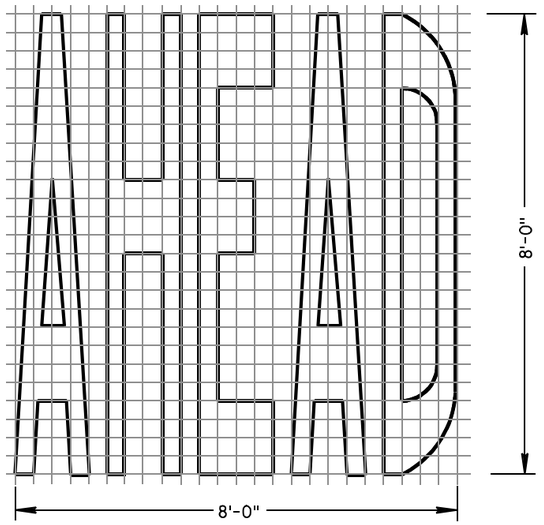
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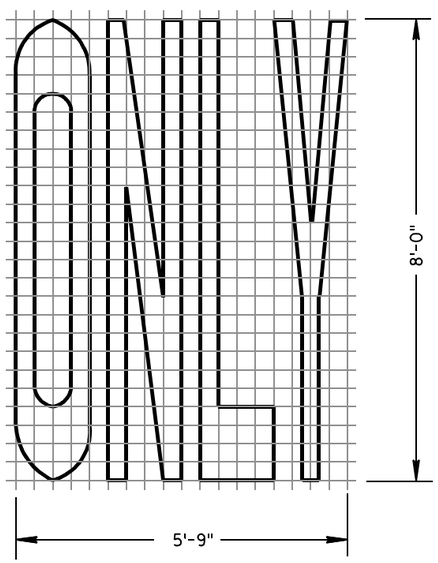


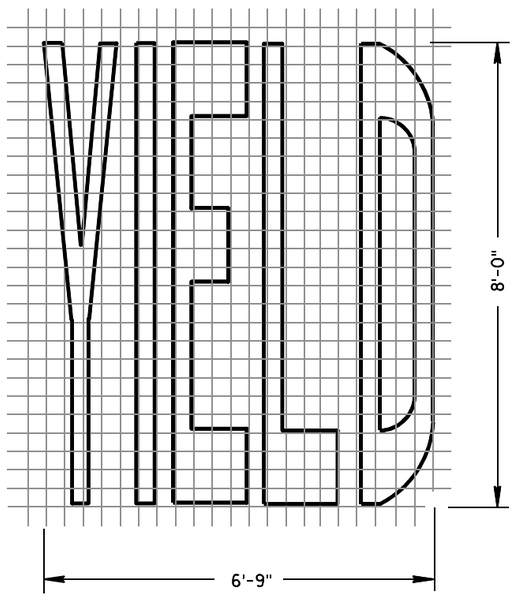


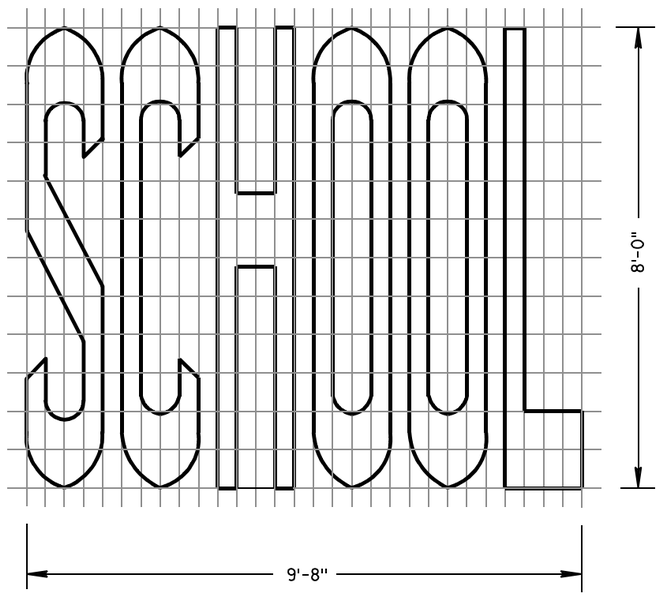


TWO-LANE









SINGLE-LANE

PAVEMENT MARKING WORDS

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED

7-1-11 DATE — /S/ Thomas N. Nothohm STATE TRAFFIC ENGINEER

FHWA

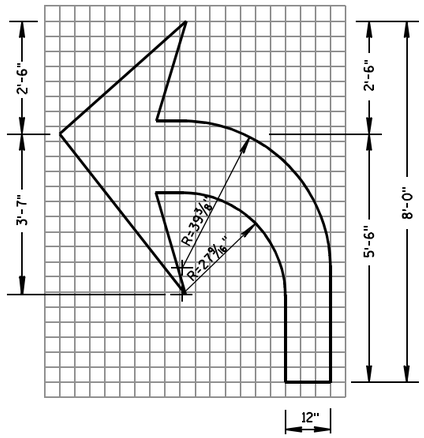
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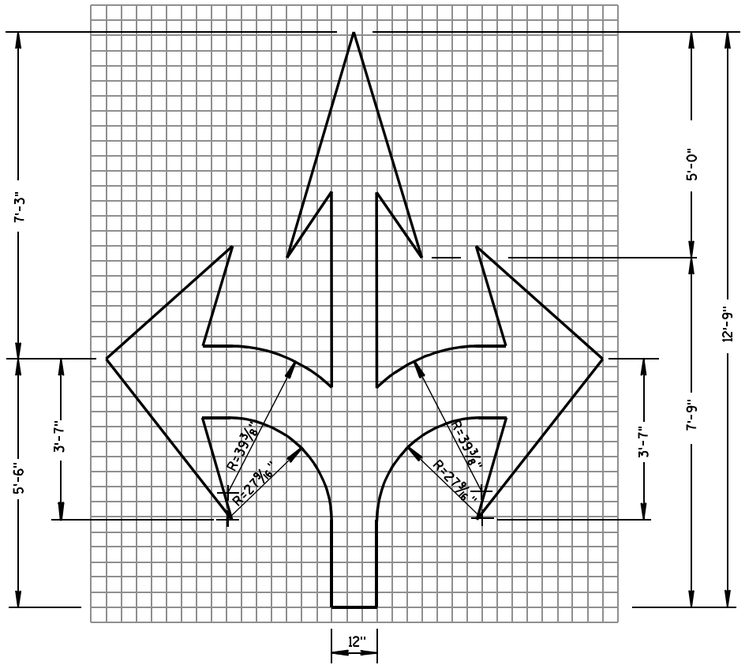
S.D.D. 15 C 7-12b

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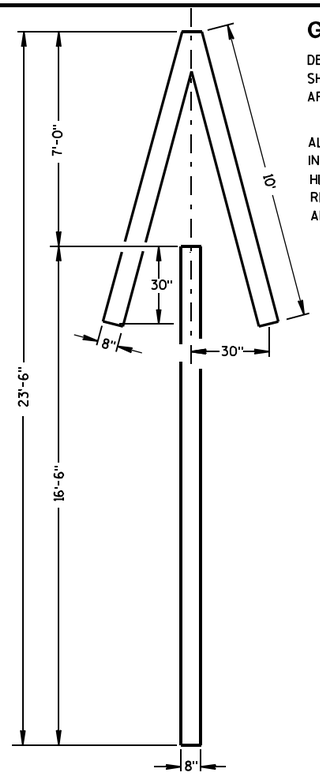
S.D.D. 15 C 7-12b



TYPE 2



TYPE 6

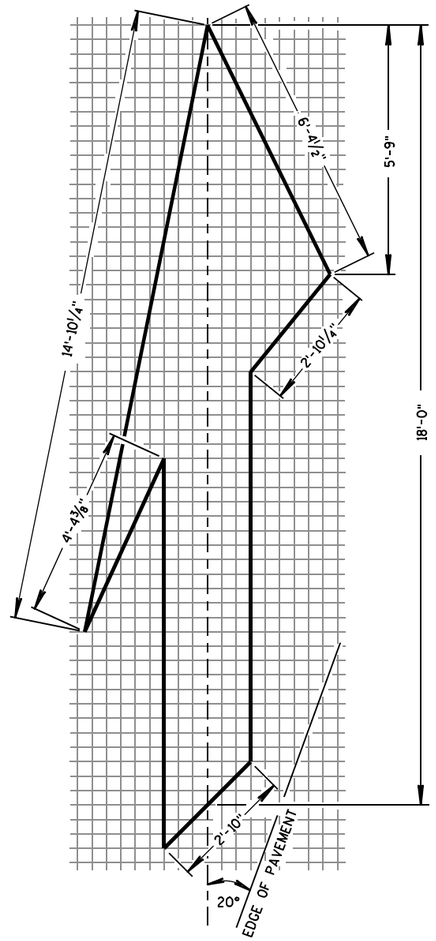


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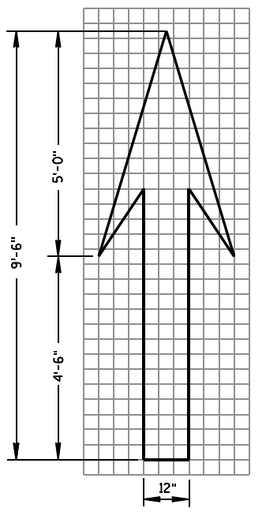
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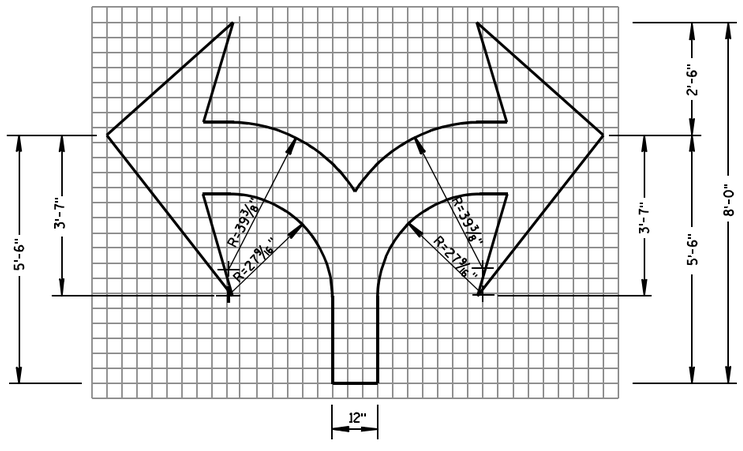
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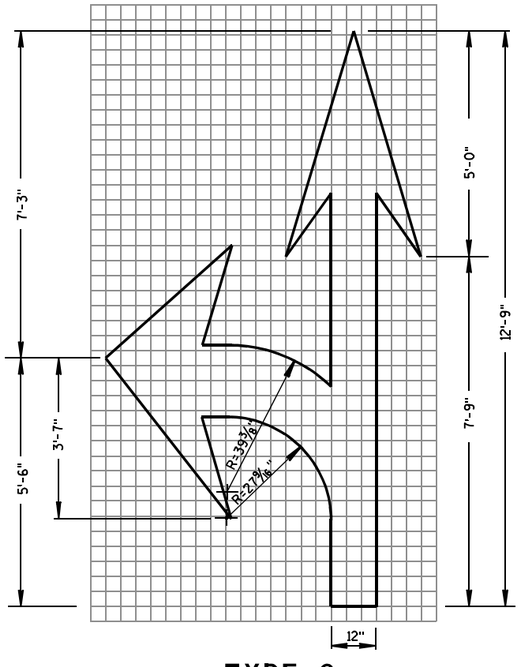
TYPE 5 LANE DROP ARROW



TYPE 1



TYPE 7



TYPE 3

PAVEMENT MARKING ARROWS

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED

7/1/11 — DATE

/S/ Thomas N. Nathaam — STATE TRAFFIC ENGINEER

FHWA

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S.D.D. 15 C 7-12c

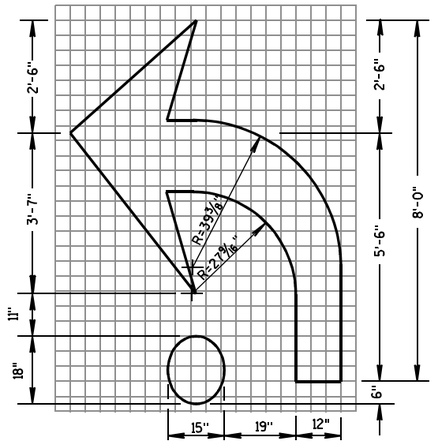
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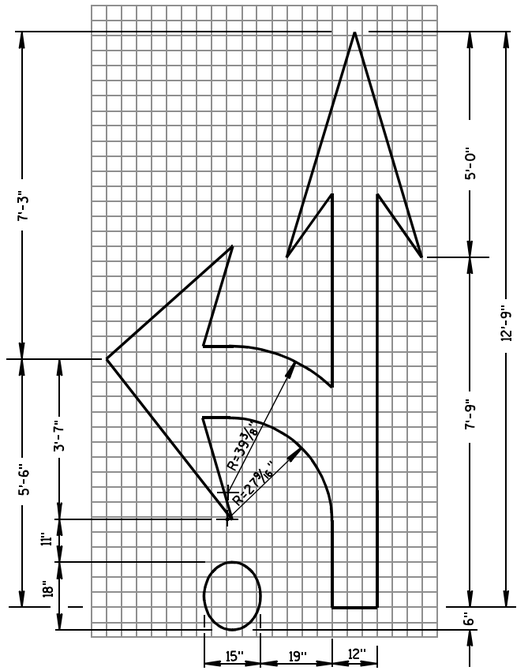
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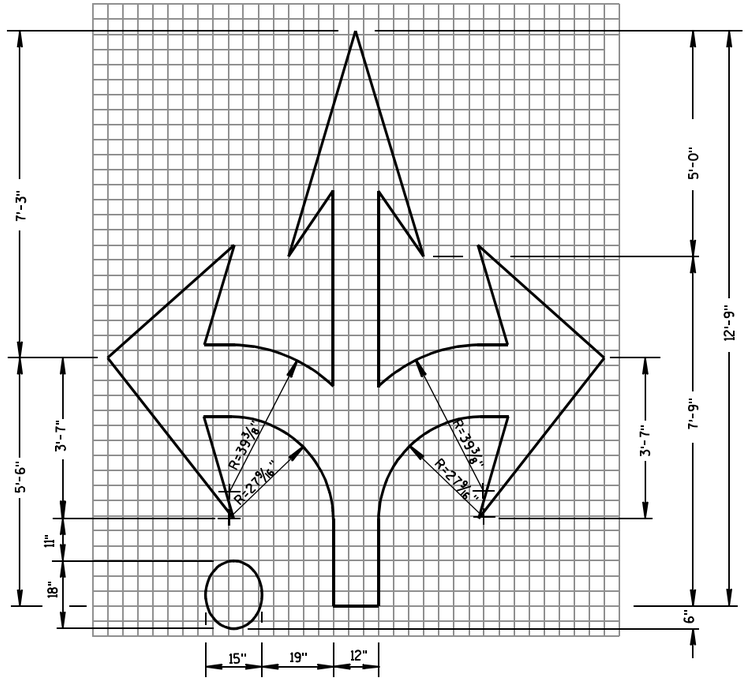
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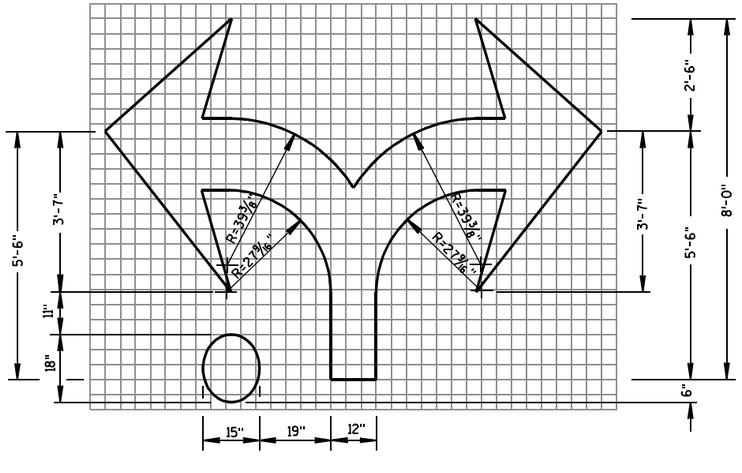
TYPE 2R



TYPE 3R



TYPE 6R



TYPE 7R

ROUNDABOUT ARROWS

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

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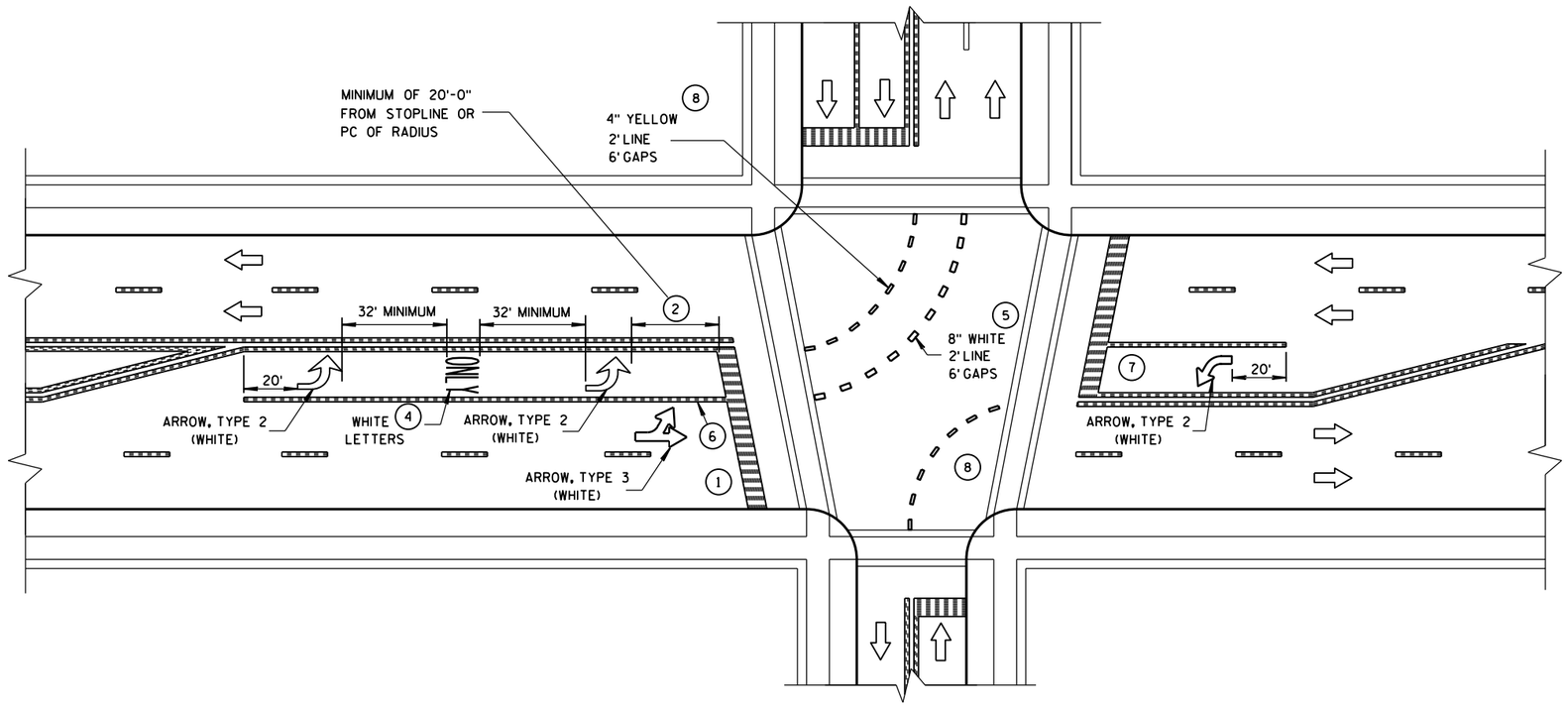
FHWA

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S.D.D. 15 C 7-12d

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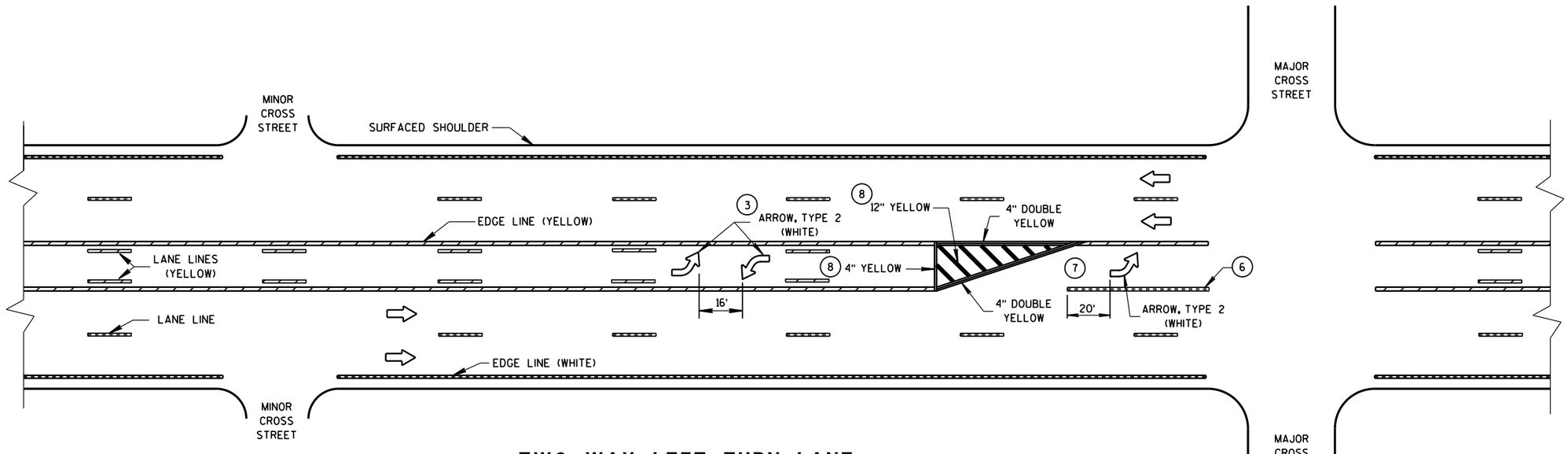
S.D.D. 15 C 7-12d



GENERAL NOTES

1. STOP BAR IS REQUIRED ONLY WHEN SPECIFIED IN THE CONTRACT.
2. DISTANCE MAY BE ADJUSTED TO ACCOMODATE SHORT LEFT TURN LANES. AS APPROVED BY THE ENGINEER.
3. A SET OF ARROWS IS REQUIRED EVERY 400 FEET OR NEAR INTERSECTIONS OR DRIVEWAYS WITH TURNING TRAFFIC.
4. ADD EXTRA SETS OF ONE ARROW AND ONE ONLY PER 160 FEET OR WHEN ON A CURVE.
5. 8" WHITE WITH 2' LINE 6' GAPS FOR DUAL TURN LANE.
6. 8" WHITE
7. ADD SECOND ARROW WHEN TURN BAY IS GREATER THAN OR EQUAL TO 108 FEET.
8. REQUIRED ONLY WHEN SPECIFIED IN THE CONTRACT.

NOTE:
ARROW SYMBOL (⇨)
SHOWS DIRECTION OF TRAVEL



TWO WAY LEFT TURN LANE

PAVEMENT MARKING (LEFT TURN LANE)

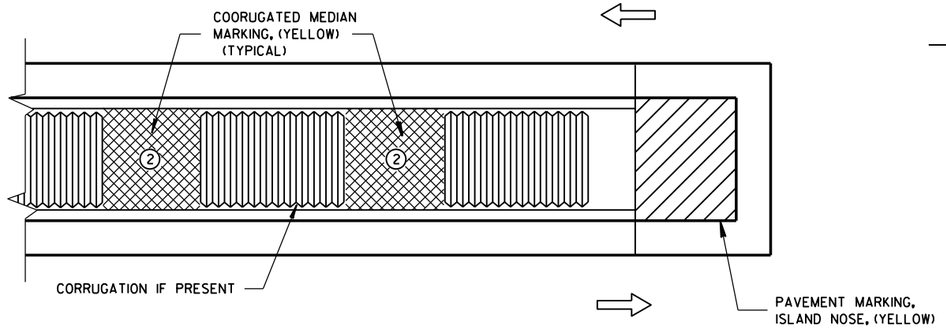
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

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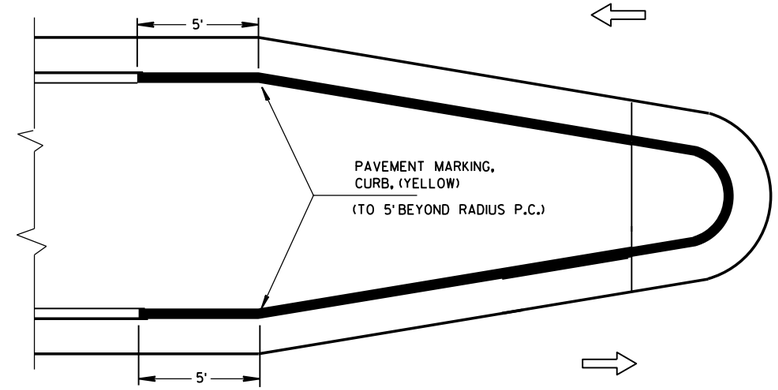
S.D.D. 15 C 8-16e

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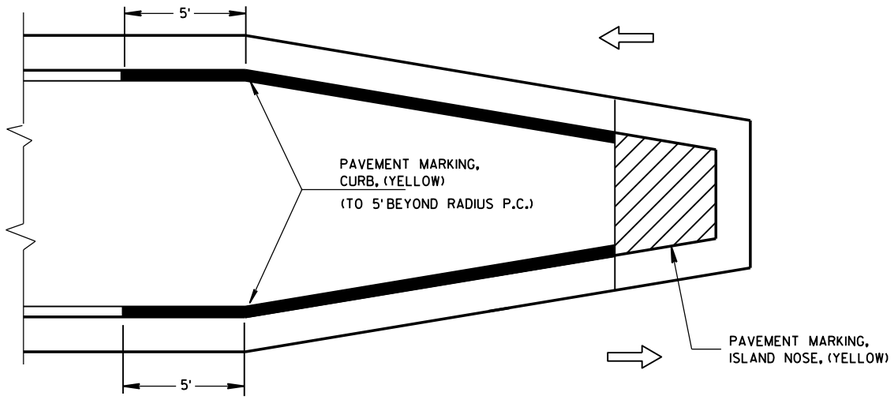
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MEDIAN ISLAND WITH SQUARE BLUNT NOSE

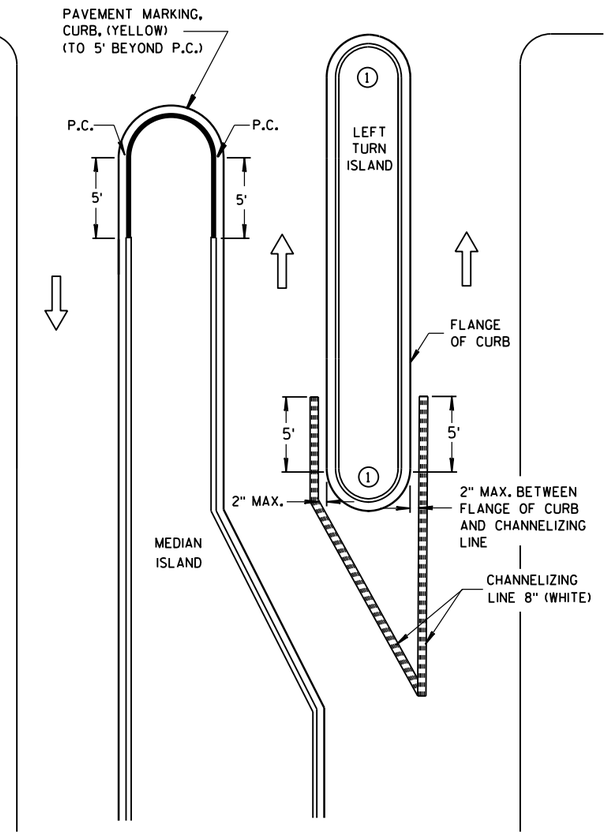


MEDIAN ISLAND WITH ROUND BLUNT NOSE



MEDIAN ISLAND WITH SLOPED NOSE

TYPICAL PLACEMENT OF PAVEMENT MARKING ON MEDIAN ISLANDS

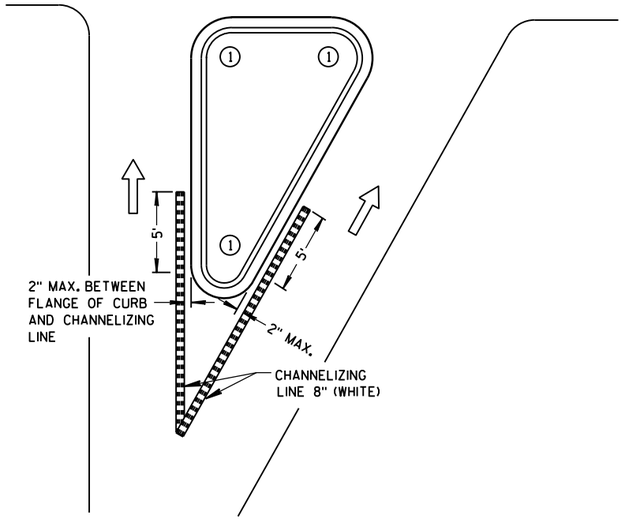


LEFT TURN & MEDIAN ISLAND

GENERAL NOTES

1. DO NOT MARK CURB NOSES THAT SEPARATE LANES OF TRAFFIC TRAVELING IN THE SAME DIRECTION.

2. WHEN CONCRETE CORRUGATED MEDIAN IS CONSTRUCTED TO SEPARATE TRAFFIC OPERATING IN THE OPPOSING DIRECTION YELLOW PAVEMENT MARKING SHALL BE APPLIED TO THE FLAT PORTION OF THE CONCRETE CORRUGATED MEDIAN. THE ITEM OF PAVEMENT MARKING, CONCRETE CORRUGATED MEDIAN, WILL BE MEASURED IN PLACE AND AND ACCEPTED IN ACCORDANCE WITH THE CONTRACT AND PAID FOR AT THE CONTRACT UNIT PRICE PER SQUARE FOOT.



RIGHT TURN ISLAND

LEGEND

- ISLAND NOSE MARKING
- CURB MARKING
- CORRUGATED MEDIAN MARKING
- DIRECTION OF TRAVEL

PAVEMENT MARKING
(ISLANDS)

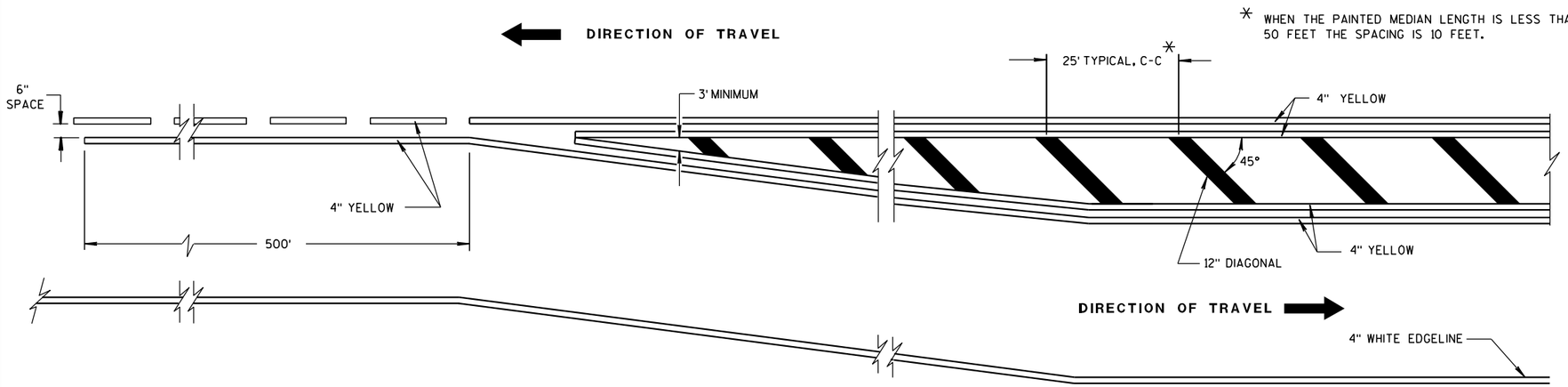
STATE OF WISCONSIN
DEPARTMENT OF TRANSPOI

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S.D.D. 15 C 8-16f

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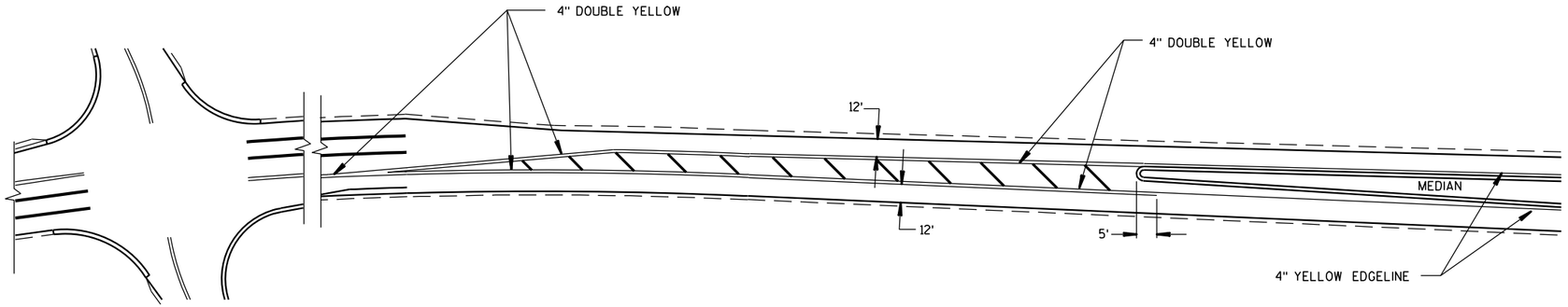
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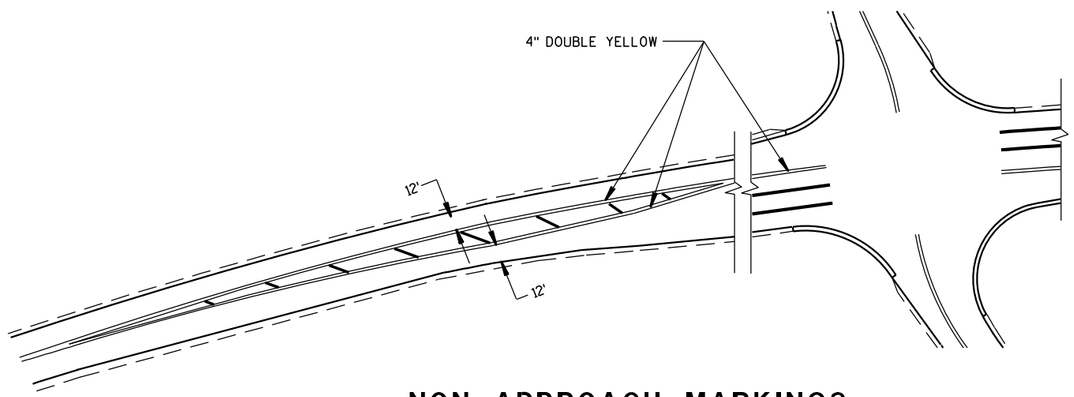
MEDIAN ISLAND DETAIL

GENERAL NOTE

DIAGONALS ARE OPTIONAL WHEN PAINTED ISLAND IS LESS THAN 6 FEET AT WIDEST POINT.



APPROACH MARKINGS FOR OTHER MEDIAN TYPES

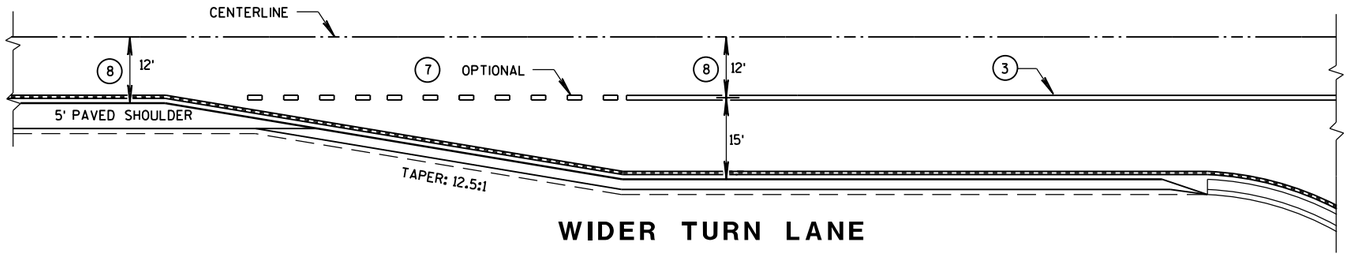


NON APPROACH MARKINGS

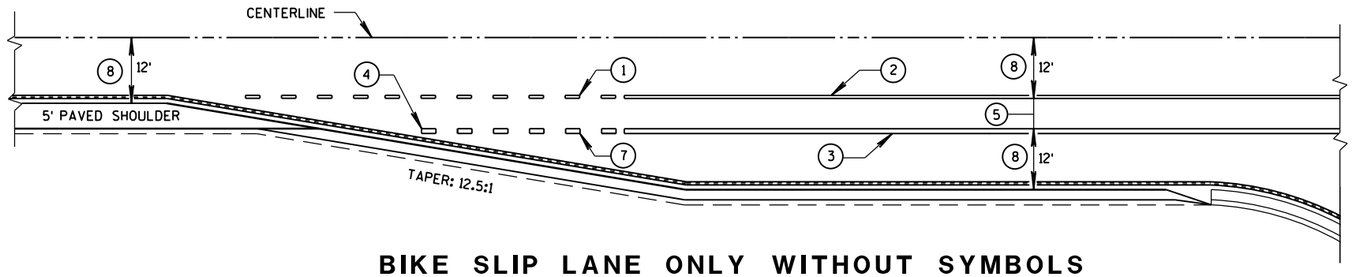
MEDIAN ISLAND MARKING	
STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION	
APPROVED 2-5-09 DATE	/S/ Thomas N. Nothohm STATE TRAFFIC ENGINEER
FHWA	

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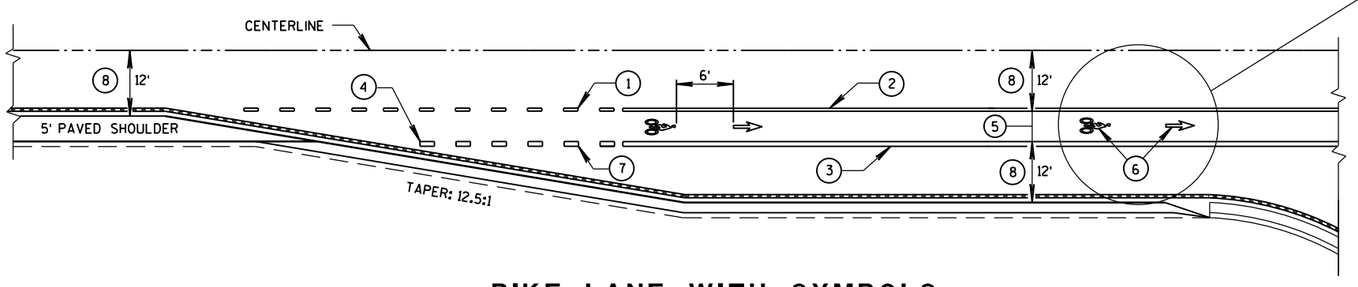
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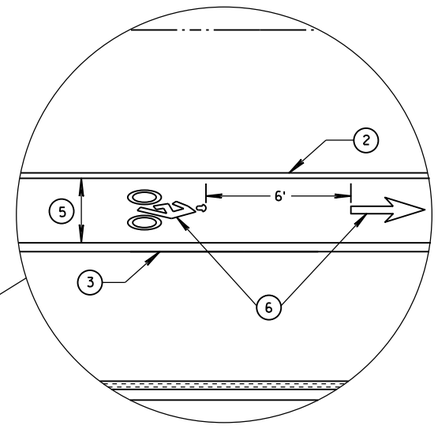
WIDER TURN LANE



BIKE SLIP LANE ONLY WITHOUT SYMBOLS



BIKE LANE WITH SYMBOLS



GENERAL NOTES

1. 3' LINE, 9' GAP - 4-INCH WIDE, WHITE.
2. 4-INCH, WHITE.
3. 8-INCH, WHITE.
4. IF SIGNED AND/OR MARKED AS A BICYCLE FACILITY INCLUDE SECOND LINE OF LINE-SPACE MARKING, OTHERWISE DO NOT.
5. BIKE ACCOMMODATION FOR CONCRETE PAVEMENT IS 5' WIDE. BIKE ACCOMMODATION FOR ASPHALT PAVEMENT IS A MINIMUM OF 4', 5' AT ≥ 45 MPH.
6. REQUIRED ONLY WHEN SPECIFIED IN THE CONTRACT.
7. 3' LINE, 9' GAP - 8-INCH WIDE, WHITE.
8. REFER TO CONTRACT PLANS.

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S.D.D. 15 C 29-3a

BICYCLE LANE MARKING

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED

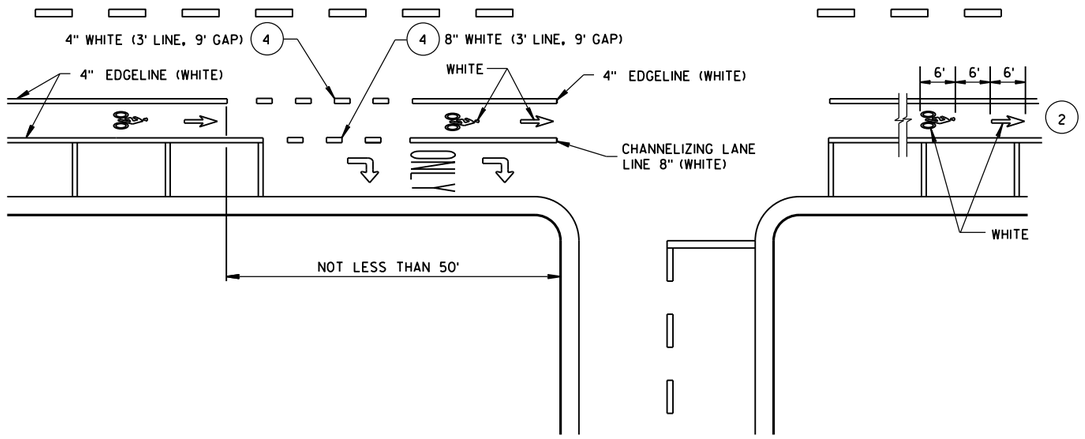
4/30/2013
DATE

/S/ Travis Feltes
STATE TRAFFIC E

FHWA

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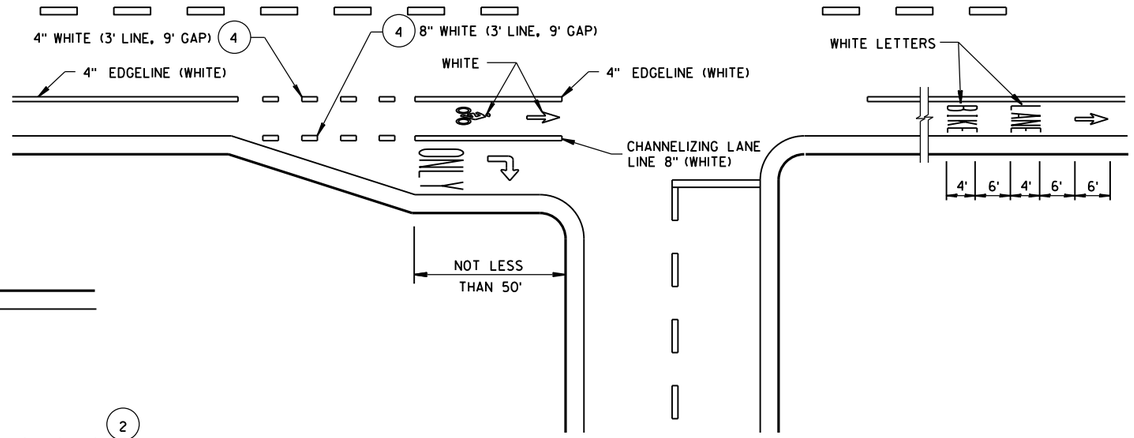
S.D.D. 15 C 29-3a



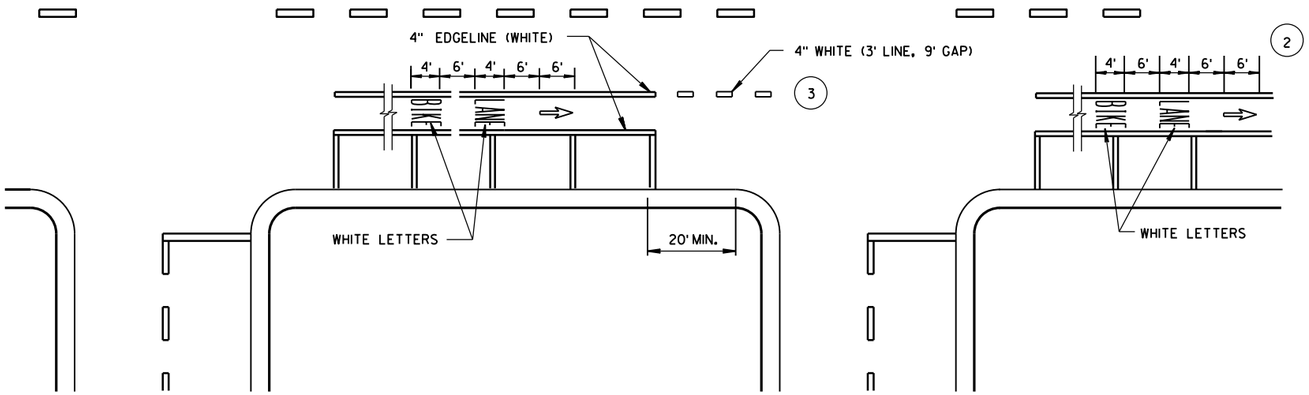
DESIGNATED BICYCLE LANE

GENERAL NOTES

1. DETAILS OF CONSTRUCTION NOT SHOWN ON THIS DRAWING SHALL CONFORM TO STANDARD SPECIFICATIONS AND SPECIAL PROVISIONS.
2. THE SERIES OF PAVEMENT MARKING SYMBOLS SHALL BE REPEATED AFTER INTERSECTIONS AND SPACED A MAXIMUM OF 250'. NO PAVEMENT MARKING WILL TAKE PLACE IN THE CROSSWALK.
3. DOTTED LINES SHOULD BE USED 50' TO 200' IN ADVANCE OF AN INTERSECTION WHERE THERE IS NO RIGHT TURN ONLY LANE AND THERE IS HEAVY RIGHT TURN TRAFFIC OR THERE IS A NEAR-SIDE BUS STOP. AT OTHER INTERSECTIONS WHERE RIGHT TURN TRAFFIC IS LIGHT TO MODERATE, A SOLID LINE CAN BE USED UP TO THE INTERSECTION.
4. WHEN SPECIFIED IN THE CONTRACT.



DESIGNATED BICYCLE LANE
NO PARKING, RIGHT TURN LANE



DESIGNATED BICYCLE LANE
WITH PARKING, NO RIGHT TURN LANE

URBAN BICYCLE LANE MARKING

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

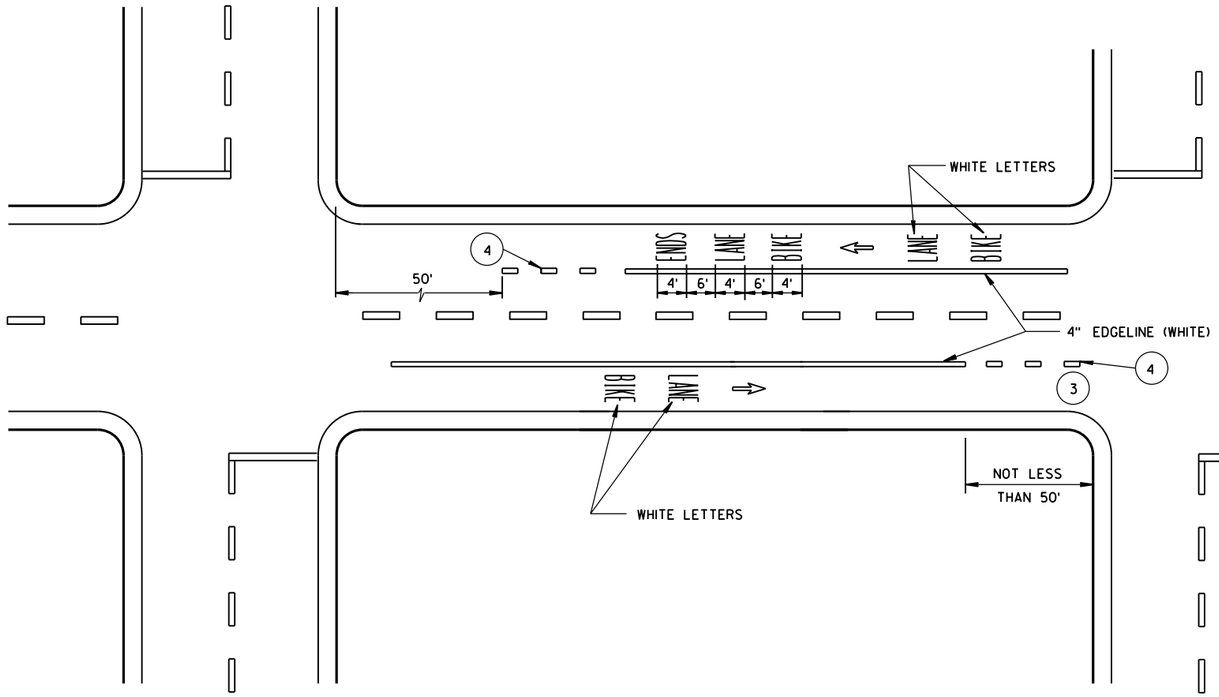
APPROVED
4/30/2013 DATE
/S/ Travis Feltes
STATE TRAFFIC E
FHWA

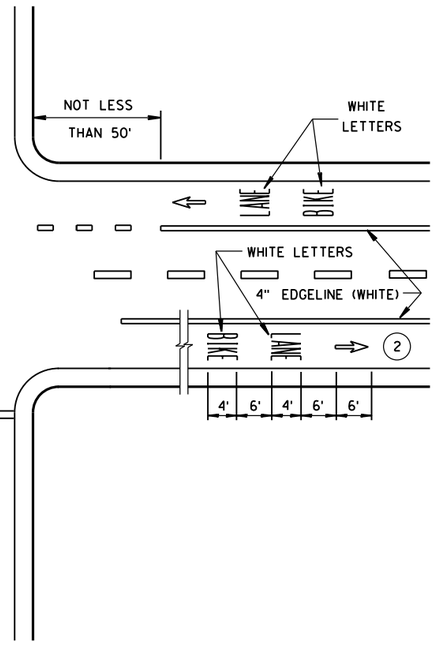
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S.D.D. 15 C 29-3c

GENERAL NOTES

1. DETAILS OF CONSTRUCTION NOT SHOWN ON THIS DRAWING SHALL CONFORM TO STANDARD SPECIFICATIONS AND SPECIAL PROVISIONS.
2. THE SERIES OF PAVEMENT MARKING SYMBOLS SHALL BE REPEATED AFTER INTERSECTIONS AND SPACED A MAXIMUM OF 250'. NO PAVEMENT MARKING WILL TAKE PLACE IN THE CROSSWALK.
3. DOTTED LINES SHOULD BE USED 50' TO 200' IN ADVANCE OF AN INTERSECTION WHERE THERE IS NO RIGHT TURN ONLY LANE AND THERE IS HEAVY RIGHT TURN TRAFFIC OR THERE IS A NEAR-SIDE BUS STOP. AT OTHER INTERSECTIONS WHERE RIGHT TURN TRAFFIC IS LIGHT TO MODERATE, A SOLID LINE CAN BE USED UP TO THE INTERSECTION.
4. 3' LINE, 9' GAP - 4" WIDE, WHITE.





DESIGNATED BICYCLE LANE
NO PARKING

URBAN BICYCLE LANE MARKING	
STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION	
APPROVED 4/30/2013 DATE FHWA	/S/ Travis Feltes STATE TRAFFIC EN

6

S.D.D. 15 C 29-3d

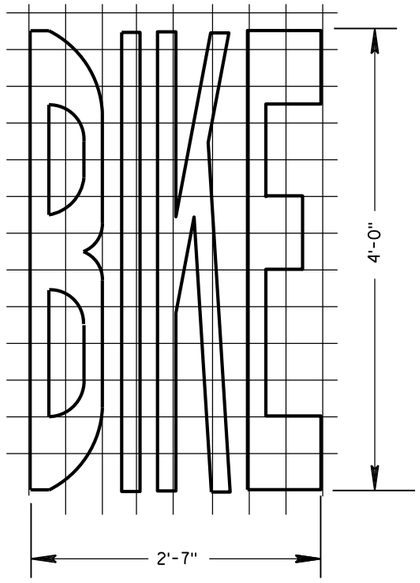
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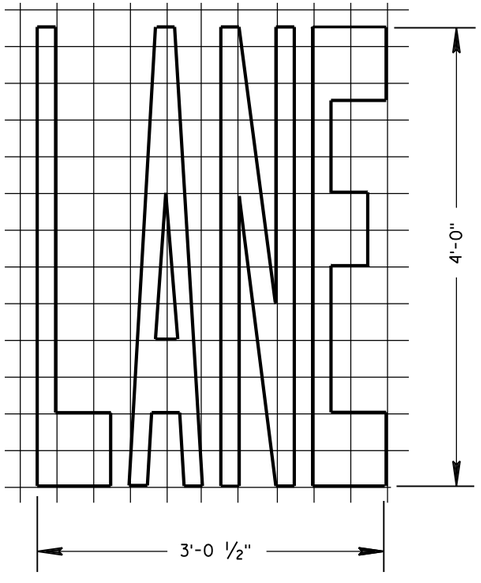
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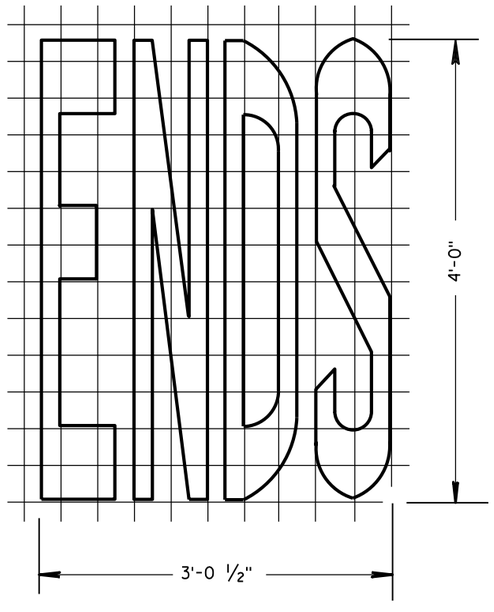
GENERAL NOTES

DETAILS OF INSTALLATION, MATERIALS AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS AND APPLICABLE SPECIAL PROVISIONS.

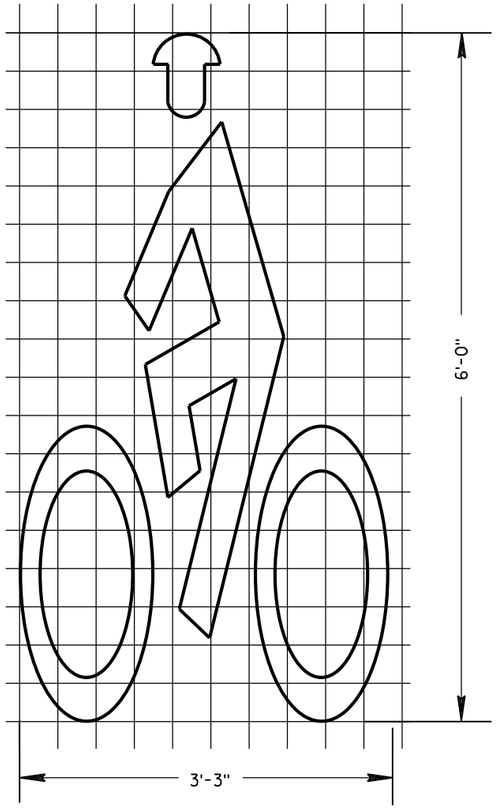
ALL LETTERS, ARROWS AND SYMBOLS SHALL BE IN CONFORMANCE WITH REQUIREMENTS INCLUDED IN "STANDARD ALPHABETS FOR HIGHWAY SIGNS AND PAVEMENT MARKING" BOOK BY THE FEDERAL HIGHWAY ADMINISTRATION. ALL LETTERS, ARROWS AND SYMBOLS SHALL BE WHITE AND REFLECTORIZED. SMALL DIFFERENCES IN DIMENSIONS WITHIN THE TOLERANCES OF THAT BOOK ARE ACCEPTABLE.



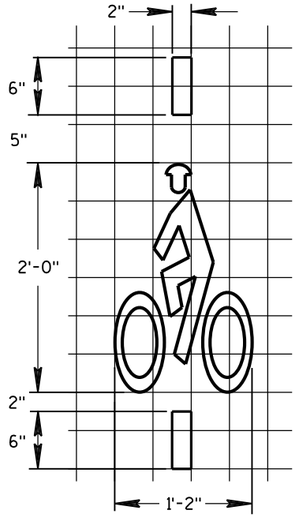




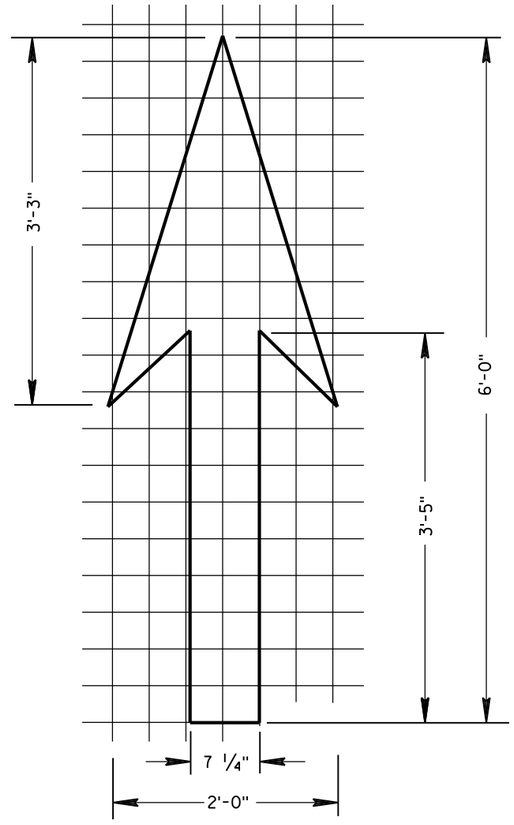
BIKE LANE WORDS



BIKE LANE SYMBOL



BICYCLE DETECTOR PAVEMENT MARKING



BIKE LANE ARROW

PAVEMENT MARKING FOR BIKE LANES

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
4-30-2013
DATE

/S/ Travis Feltes
STATE TRAFFIC EN

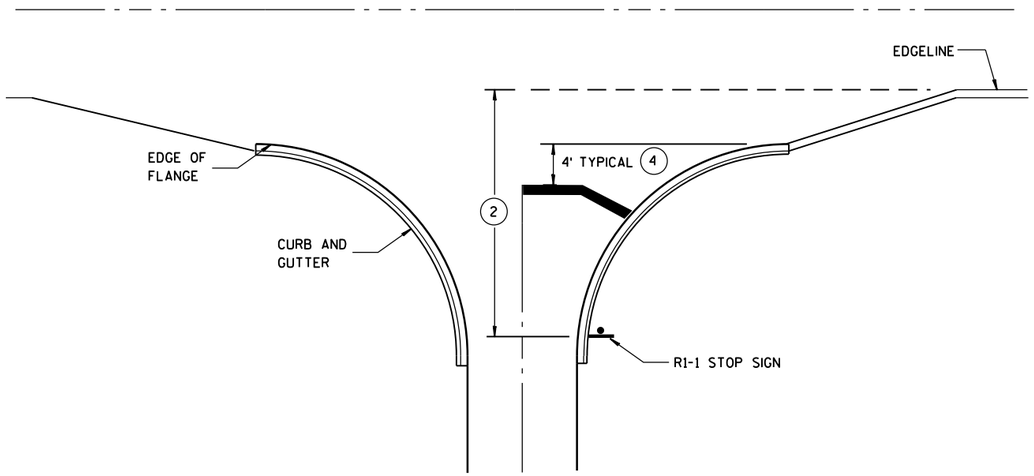
FHWA

6

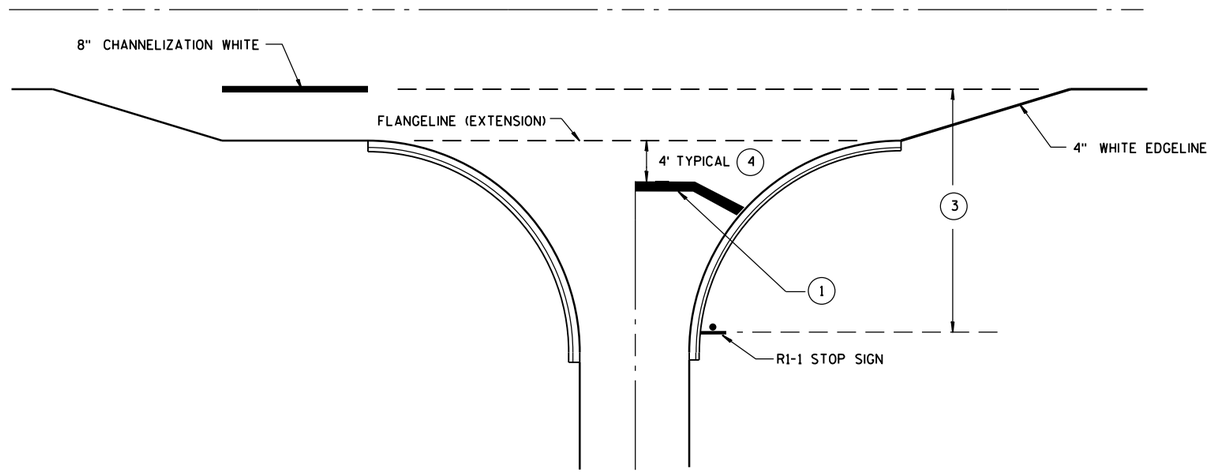
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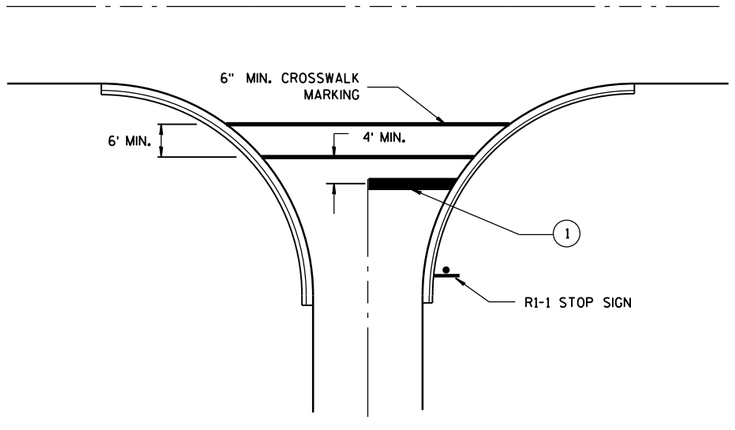
S.D.D. 15 C 29-3e



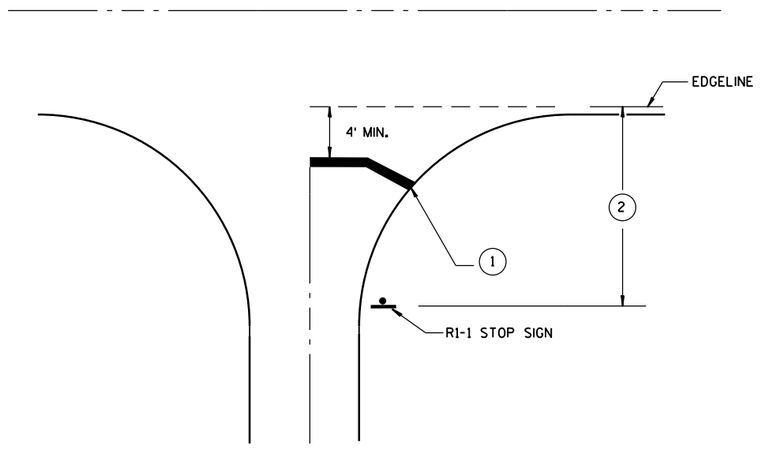
TYPICAL STOP LINE PAVEMENT MARKING WITH CURB AND GUTTER



TYPICAL STOP LINE PAVEMENT MARKING FOR SIDEROADS WITH RIGHT TURN LANE



TYPICAL STOP LINE PAVEMENT MARKING FOR SIDEROADS WITH CROSSWALK MARKING



TYPICAL STOP LINE PAVEMENT MARKING WITHOUT CURB AND GUTTER

GENERAL NOTES

1. 18-INCH STOP LINES MAY BE DELETED OR ADDED BY THE PROJECT ENGINEER BASED ON VISIBILITY AND SIGHT LINES.
2. IF STOP SIGN IS LESS THAN OR EQUAL TO 40 FEET FROM THE EDGELINE THAN NO STOP LINE IS REQUIRED.
3. IF STOP SIGN IS LESS THAN OR EQUAL TO 30 FEET FROM THE FLANGELINE EXTENSION THAN NO STOP LINE IS REQUIRED.
4. MOVE CLOSER TO EDGE OF TRAVEL LANE AS NEEDED FOR VISIBILITY AND SIGHT LINES.

STOP LINE AND CROSSWALK PAVEMENT MARKING

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED

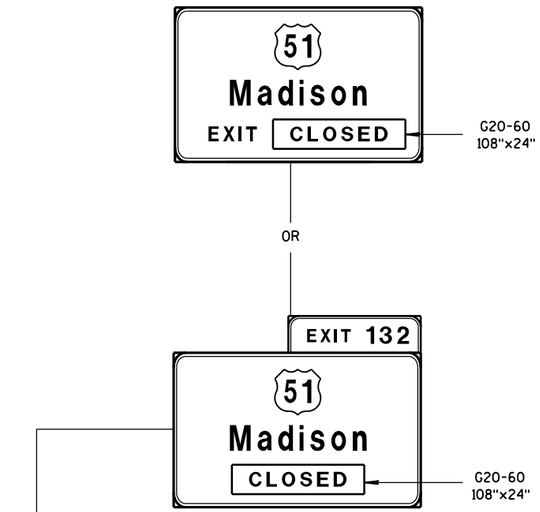
4/30/2013
DATE

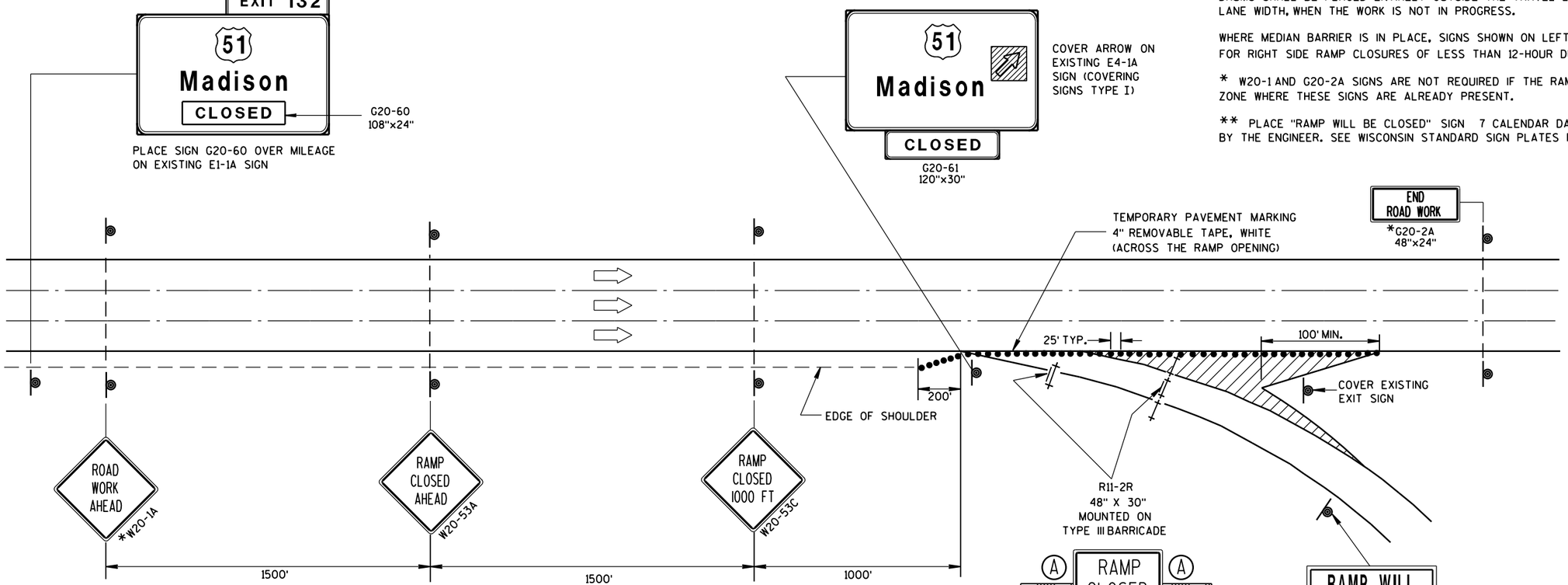
/S/ Travis Feltes
STATE TRAFFIC E

FHWA

6

S.D.D. 15 C 33-1





GENERAL NOTES

THIS RAMP CLOSURE DETAIL IS TYPICAL FOR CLOSING A RIGHT SIDE EXIT RAMP. FOR A LEFT SIDE EXIT RAMP, REVERSE THE TRAFFIC CONTROL.

THE EXACT NUMBER, LOCATION, AND SPACING OF ALL SIGNS AND DEVICES SHALL BE ADJUSTED TO FIT FIELD CONDITIONS AS APPROVED BY THE ENGINEER.

THE SPACING BETWEEN TRAFFIC CONTROL SIGNS SHOULD BE ADJUSTED TO NOT CONFLICT WITH AND SHOULD PROVIDE A MINIMUM OF 200 FEET (500 FEET DESIRABLE) CLEARANCE TO EXISTING SIGNS THAT WILL REMAIN IN PLACE.

ALL SIGNS ARE 48" X 48" UNLESS OTHERWISE NOTED.

SIGNS THAT WILL BE IN PLACE LESS THAN 7 CONTINUOUS DAYS AND NIGHTS MAY BE MOUNTED ON PORTABLE SUPPORTS.

ANY SIGNS TEMPORARY OR EXISTING, WHICH CONFLICT WITH TRAFFIC CONTROL "IN USE" SHALL BE REMOVED OR COVERED AS NEEDED AND AS APPROVED BY THE ENGINEER.

PLACE TEMPORARY PAVEMENT MARKING, REMOVABLE TAPE IF RAMP CLOSURE IS TO BE IN PLACE FOR 4 OR MORE CONTINUOUS DAYS AND NIGHTS.

WORK AREAS WITH A DROPOFF ALONG THE EDGE OF AN OPEN TRAVEL LANE SHALL BE LEVELED WITH TEMPORARY FILL WHEN THE CONTRACTOR IS NOT WORKING ADJACENT TO THE TRAVEL LANE. DRUMS SHALL BE PLACED ENTIRELY OUTSIDE THE TRAVEL LANE, ALLOWING THE FULL UNOBSTRUCTED LANE WIDTH, WHEN THE WORK IS NOT IN PROGRESS.

WHERE MEDIAN BARRIER IS IN PLACE, SIGNS SHOWN ON LEFT SIDE OF ROADWAY MAY BE OMITTED FOR RIGHT SIDE RAMP CLOSURES OF LESS THAN 12-HOUR DURATION.

* W20-1 AND G20-2A SIGNS ARE NOT REQUIRED IF THE RAMP CLOSURE IS WITHIN A LARGER WORK ZONE WHERE THESE SIGNS ARE ALREADY PRESENT.

** PLACE "RAMP WILL BE CLOSED" SIGN 7 CALENDAR DAYS PRIOR TO CLOSURE OR AS DIRECTED BY THE ENGINEER. SEE WISCONSIN STANDARD SIGN PLATES FOR SIGN LAYOUT.

LEGEND

- TYPE III BARRICADE
- TYPE III BARRICADE WITH ATTACHED SIGN
- TRAFFIC CONTROL DRUM
- SIGN ON PERMANENT SUPPORT
- (A) TYPE "A" WARNING LIGHT (FLASHING)
- DIRECTION OF TRAFFIC

TRAFFIC CONTROL, EXIT RAMP CLOSURE

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

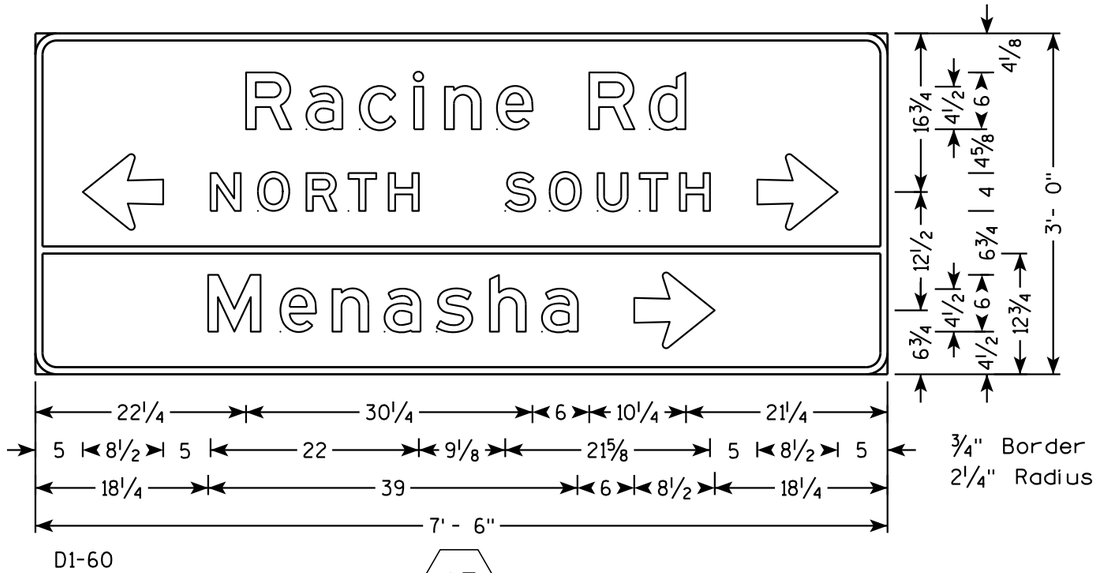
APPROVED
Sept. 2015 — DATE
/S/ Peter Amakobe Atepe — STATEWIDE WORK ZO SAFETY ENGI FIC
FHWA

6 S.D.D. 15 D 16-3

6 S.D.D. 15 D 16-3

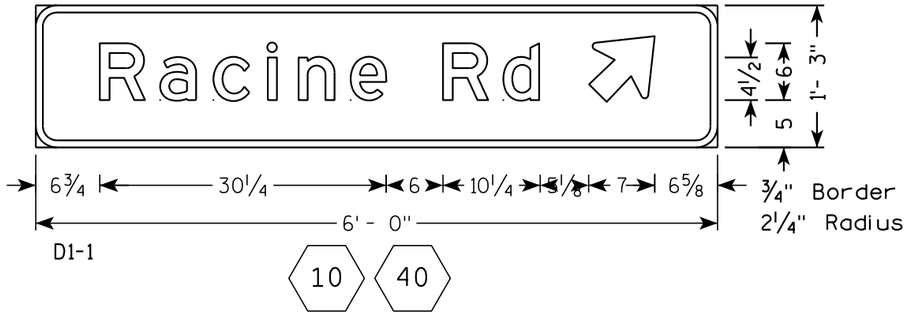
NOTES

1. All Signs Type II - Type H Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - GREEN
   Message - WHITE
3. Message Series - E



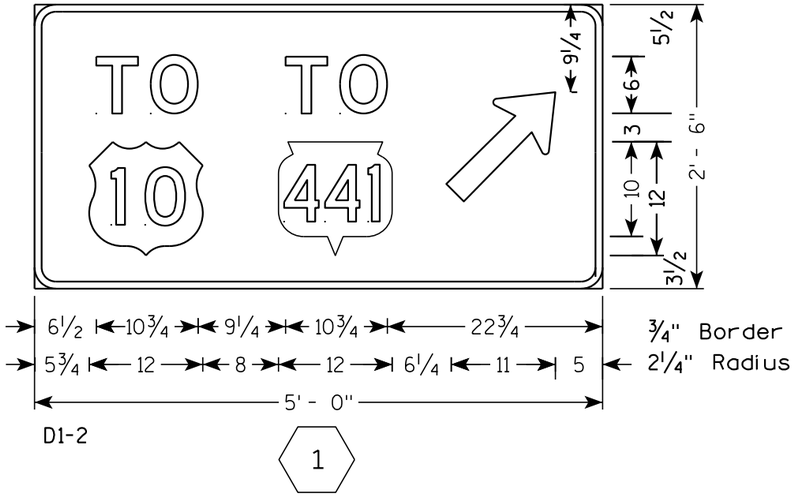
D1-60

1E



D1-1

10 40



D1-2

1

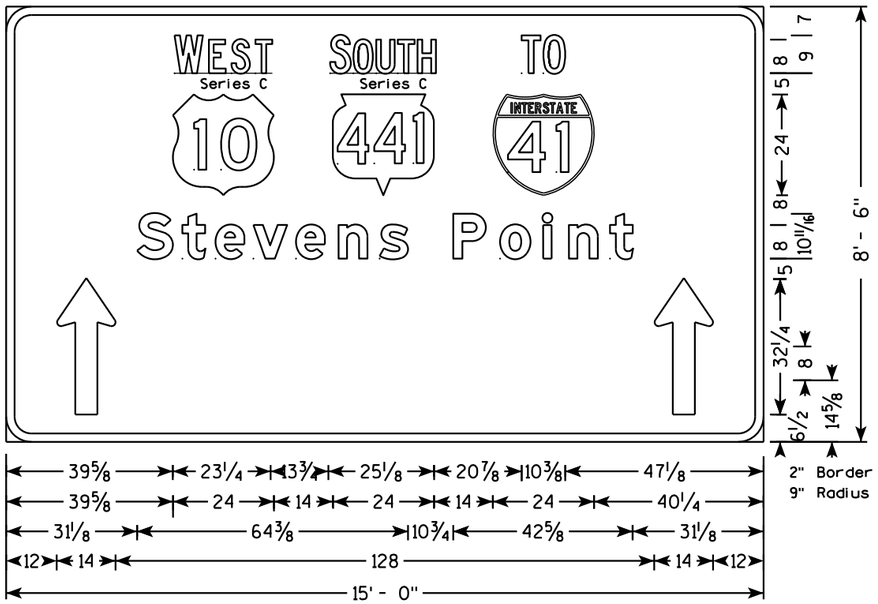
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7

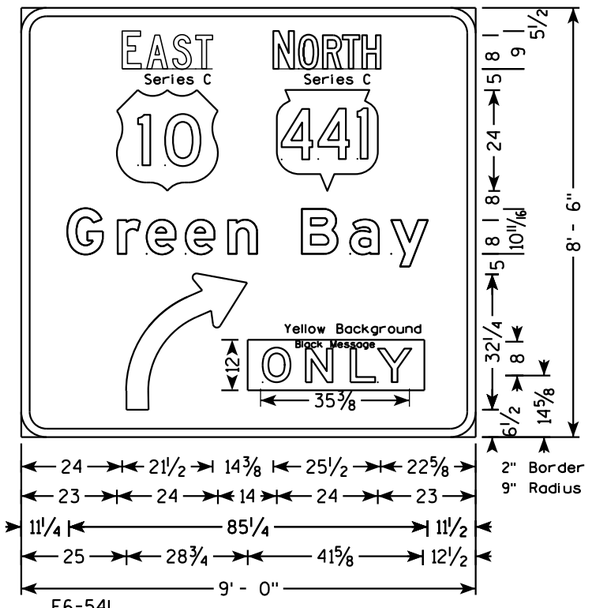
PROJECT NO: 1517-75-76	HWY: USH 10	COUNTY: WINNEBAGO	PERMANENT SIGNING	SHEET NO: 290	E

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
   Message - White
3. Message Series - E Modified except all cap WORDS are Series E



200



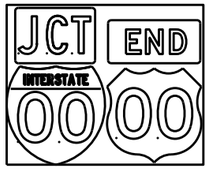
E6-54L

201

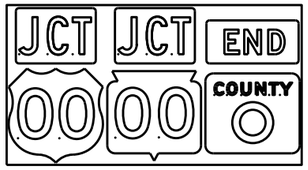
TYPICAL ASSEMBLIES



J1-1



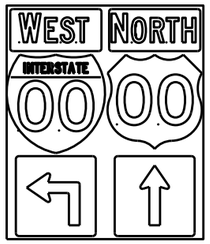
J1-2



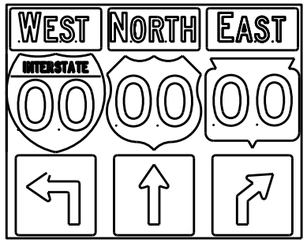
J1-3



J2-1



J2-2

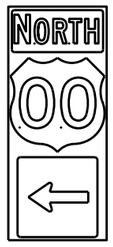


J2-3

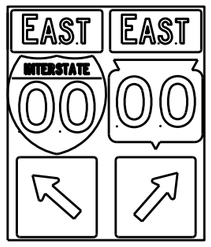


JV

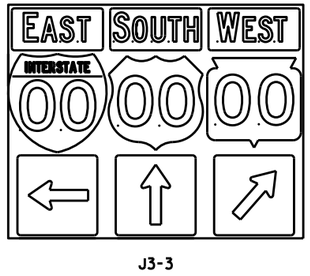
(Typical Vertical J-Assembly
See Note 10 and 11)



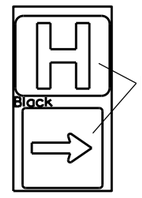
J3-1



J3-2



J3-3

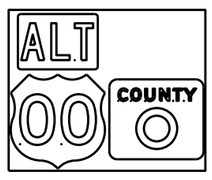


Blue Background

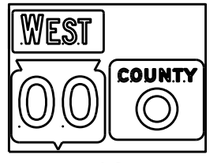
JH-1



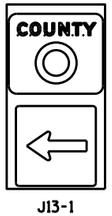
J4-1



J4-2



J4-2



J13-1



J12-1



J32-1



J33-1

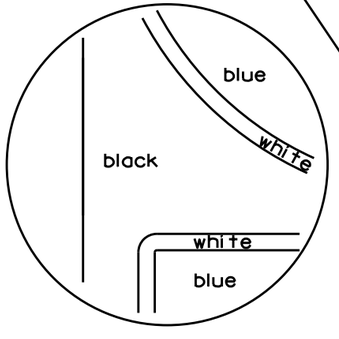


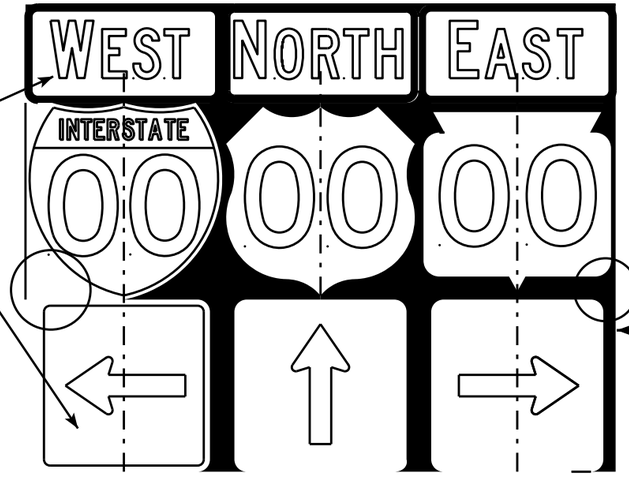
J23-1

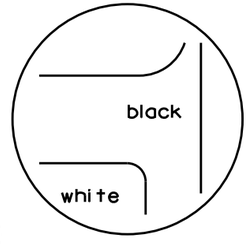


J22-1

[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

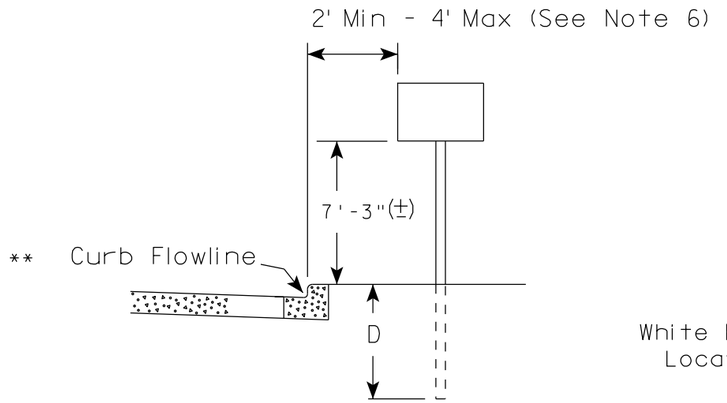
DATE 2/06/14 PL A2-1S.8

PROJECT NO: SHEET NO: E

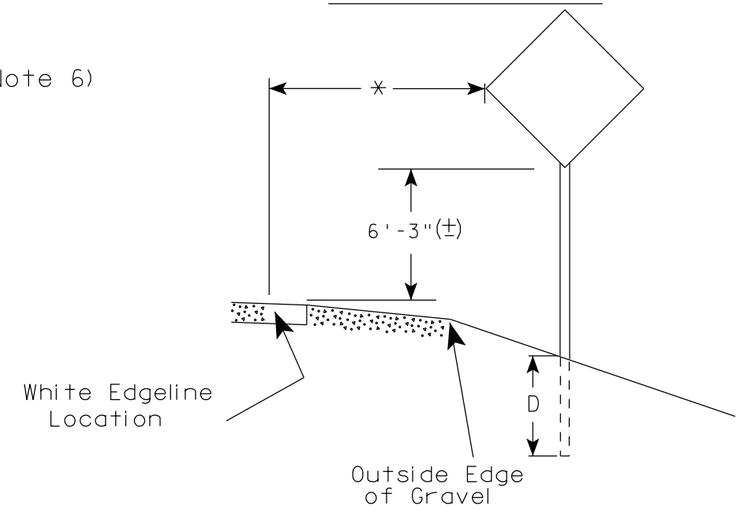
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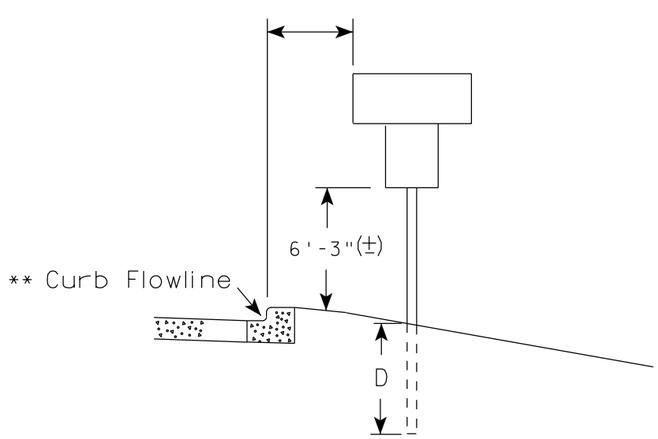
WISDOT/CADDS SHEET 42

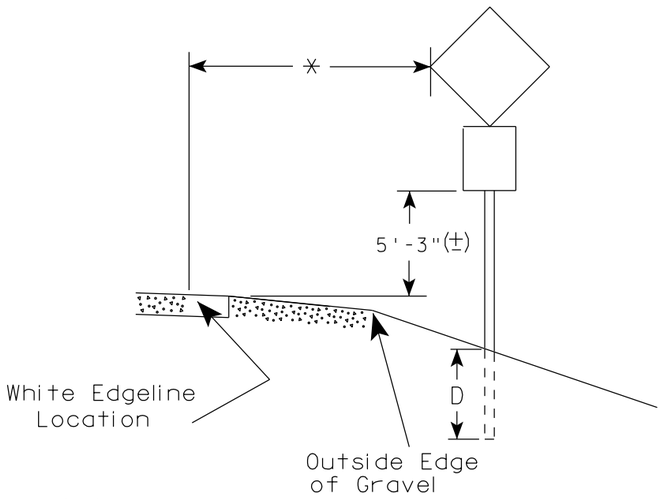
URBAN AREA



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" (±).

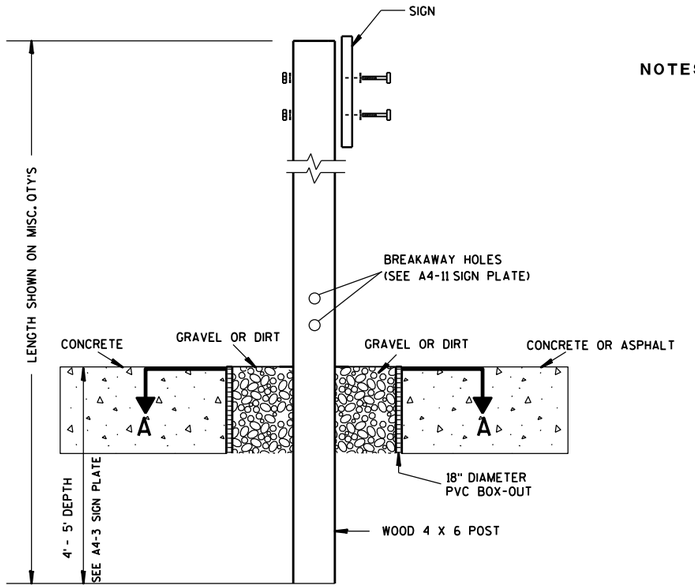
TYPICAL INSTALLATION OF PERMANENT TYPE II SIGNS ON SINGLE POSTS

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 7/23/15 PLATE NO. A4-3.20

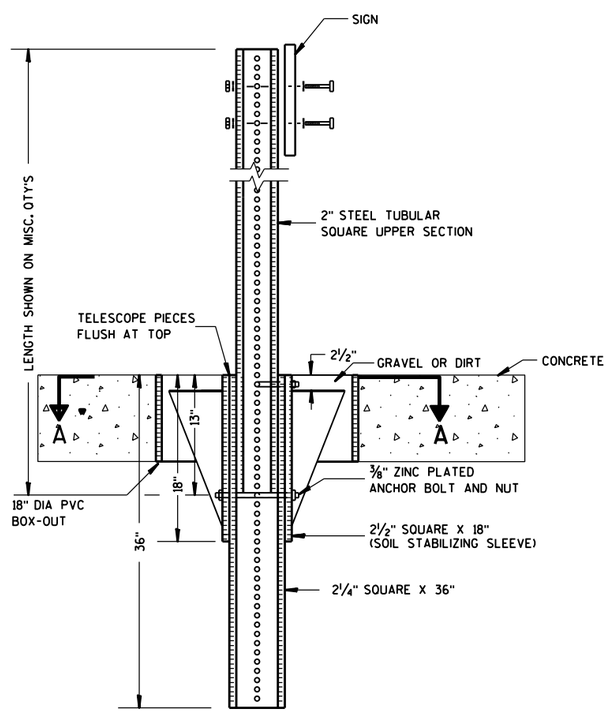
PROJECT NO:	HWY:	COUNTY:		SHEET NO:	E



ELEVATION VIEW

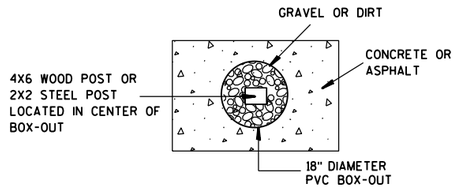
DETAIL OF WOOD 4 X 6 SIGN POST IN BOX-OUT

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

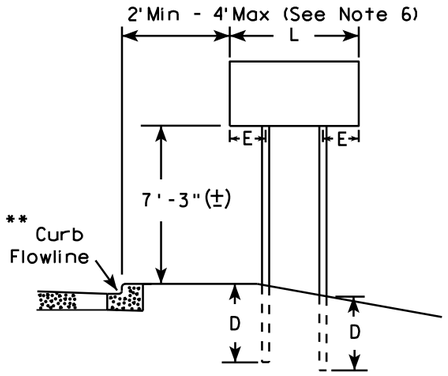
APPROVED Matthew R Rauch
for State Traffic Engineer

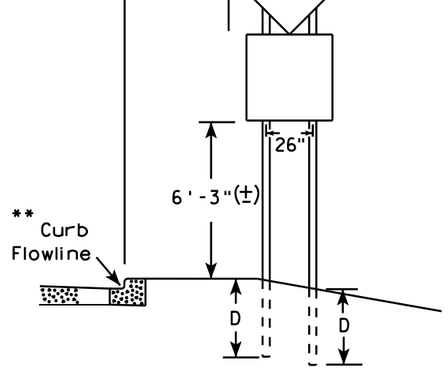
DATE 1/27/14 PLATE NO. A4-3B.1

PROJECT NO:	HWY:	COUNTY:		SHEET NO:	E

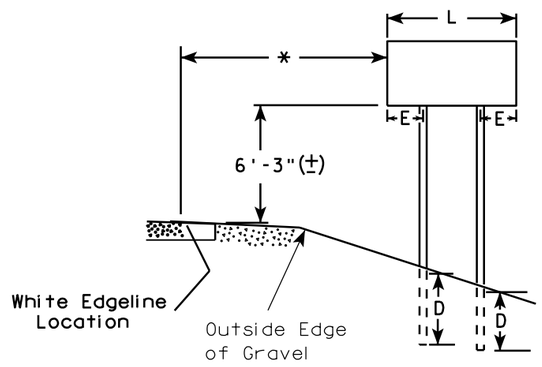
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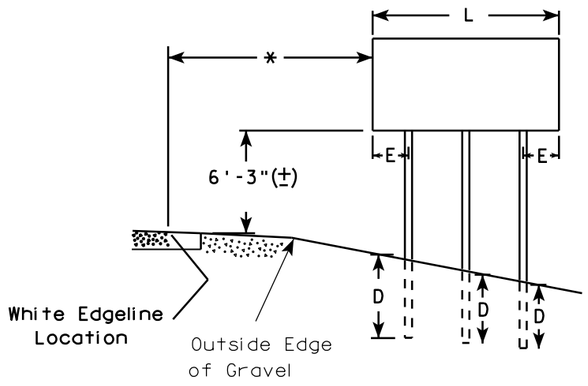
URBAN AREA

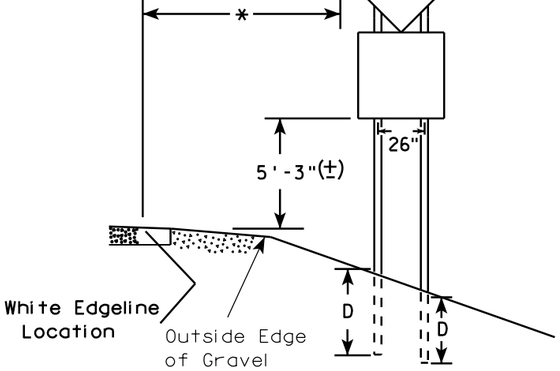




RURAL AREA (See Note 3)







48" DIAMOND WARNING SIGN

48" DIAMOND WARNING SIGN

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.

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"

POST EMBEDMENT DEPTH

Area of Sign Installation (Sq. Ft.)	D (Min)
20 or Less	4'
Greater than 20	5'

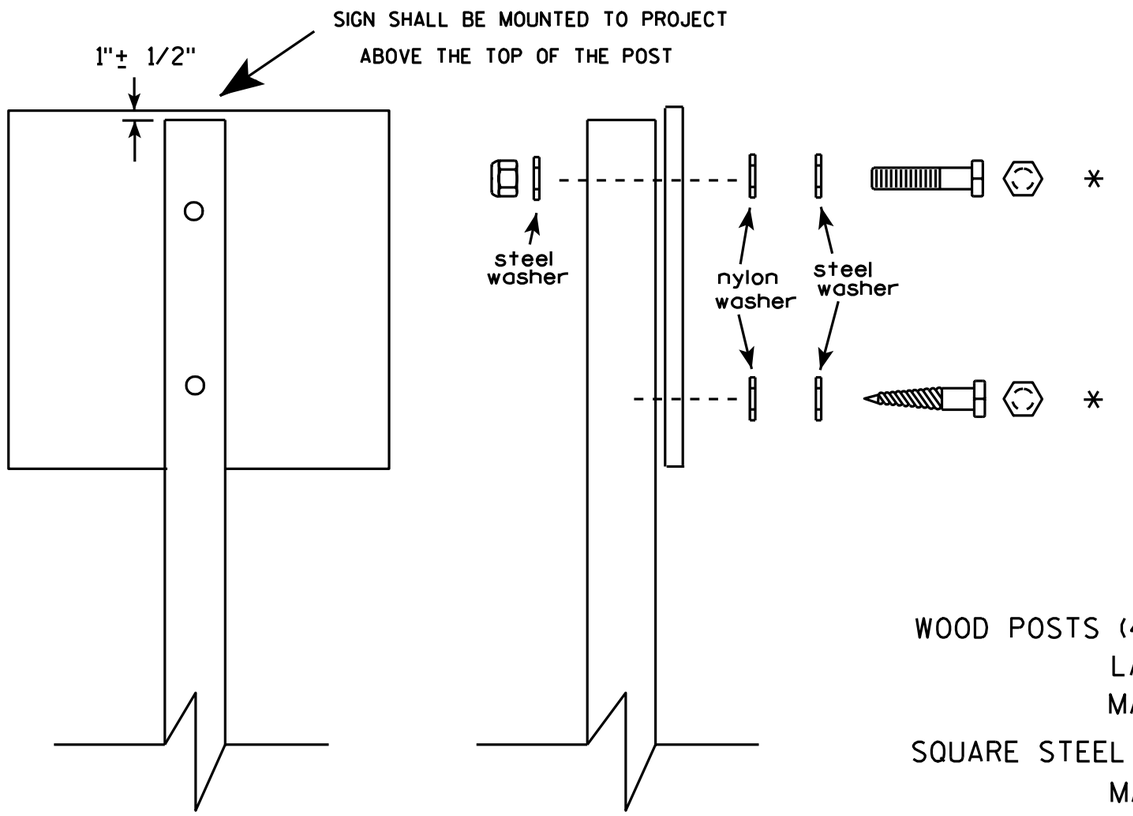
TYPICAL INSTALLATION OF TYPE II SIGNS ON MULTIPLE POSTS

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 7/23/15 PLATE NO. A4-4 295 14

PROJECT NO:	HWY:	COUNTY:		SHEET NO:	E



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

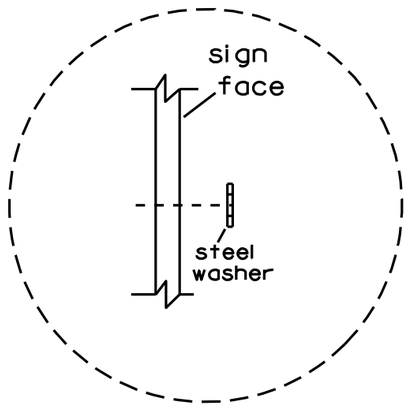
b. Electro-galvanized in accordance with ASTM Designation : B 633, TYPE III, SC 3.

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.

WOOD POSTS (4" x 4" or 4" x 6")
LAG SCREWS - 3/8" X 3"
MACHINE BOLTS - 5/16" X 6-1/2" or 7" Length w/ nuts

SQUARE STEEL POSTS (2" x 2")
MACHINE BOLTS - 3/8" X 3-1/4" Length w/ nuts
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 for all Type H signs.



Washer Placement when Sign Has Other Than Type H or Type F Face

* Two different fastening systems are shown for illustration purposes. On any individual sign, either one or the other system shall be used. Actual number of fasteners per sign varies with the sign area, but normally there are two. For a single post installation, all signs greater than 9 sq. ft. require the use of 3 fasteners.

ATTACHMENT OF SIGNS TO POSTS

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 3/23/10 PLATE NO. A4-8.7

7

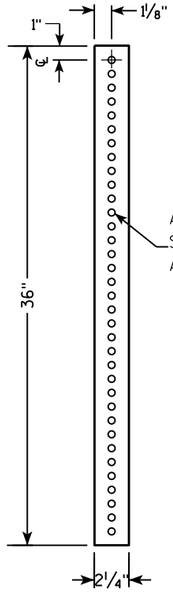
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PROJECT NO:

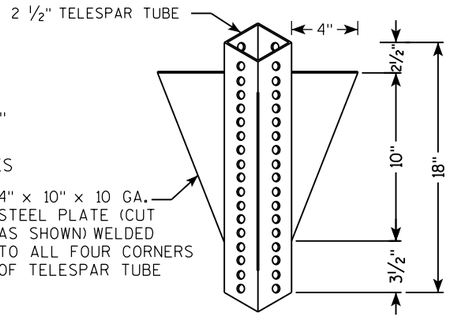
SHEET NO: 296 E

TELESCOPIC TUBING ANCHORS
TWO PIECE SYSTEM

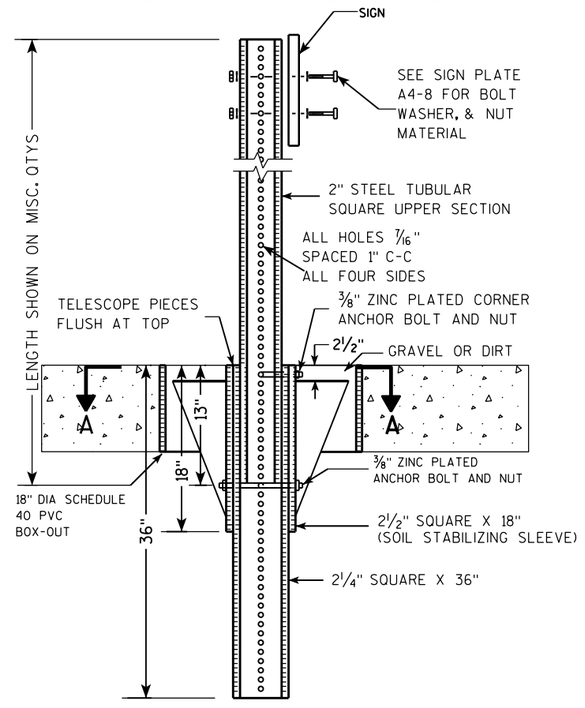
2 1/4 " SQUARE
12 GAUGE
PERFORATED
GALVANIZED FINISH



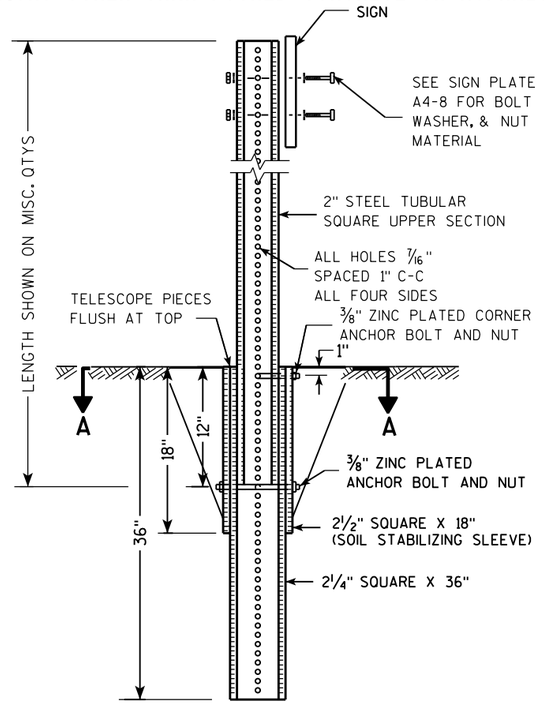
2 1/2 " SQUARE
12 GAUGE
OMNI-DIRECTIONAL
PERFORATED
SOIL STABILIZING SLEEVE
GALVANIZED FINISH

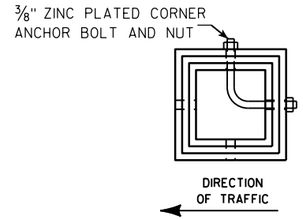


DETAIL OF TUBULAR STEEL SIGN POST
(IN POURED CONCRETE OR ASPHALT)



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

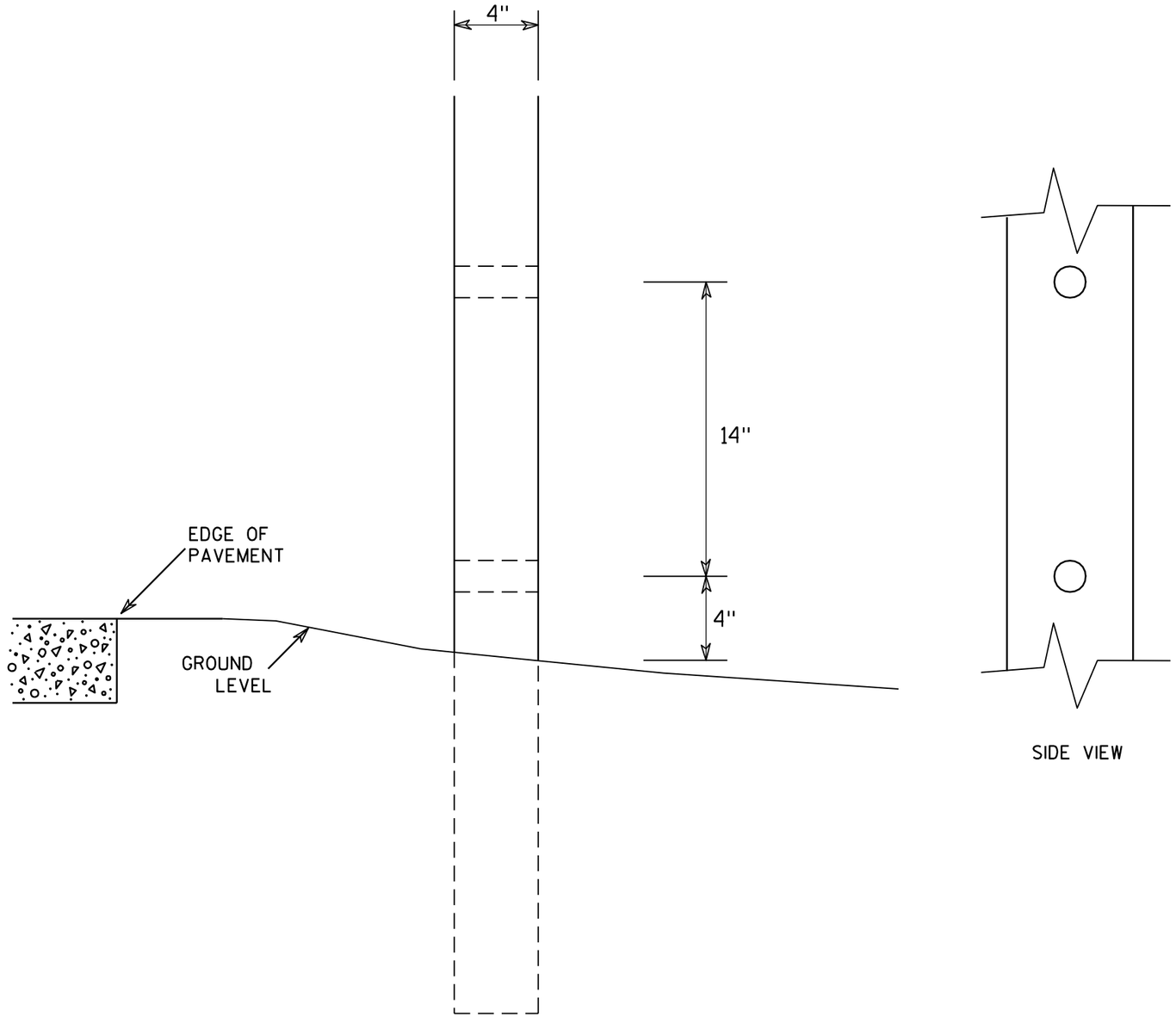
APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 2/05/15 PLATE 297 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.

4 X 6 WOOD POST MODIFICATIONS

WISCONSIN DEPT OF TRANSPORTATION

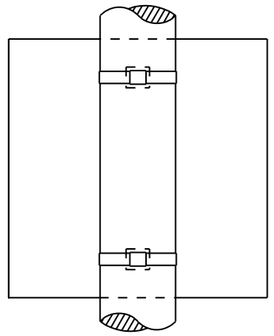
APPROVED Chester J Spang for State Traffic Engineer

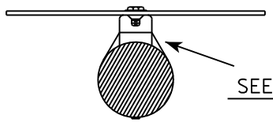
DATE 3/27/97 PLATE NO. A4-11.2

PROJECT NO:	HWY:	COUNTY:		SHEET NO: 298	E

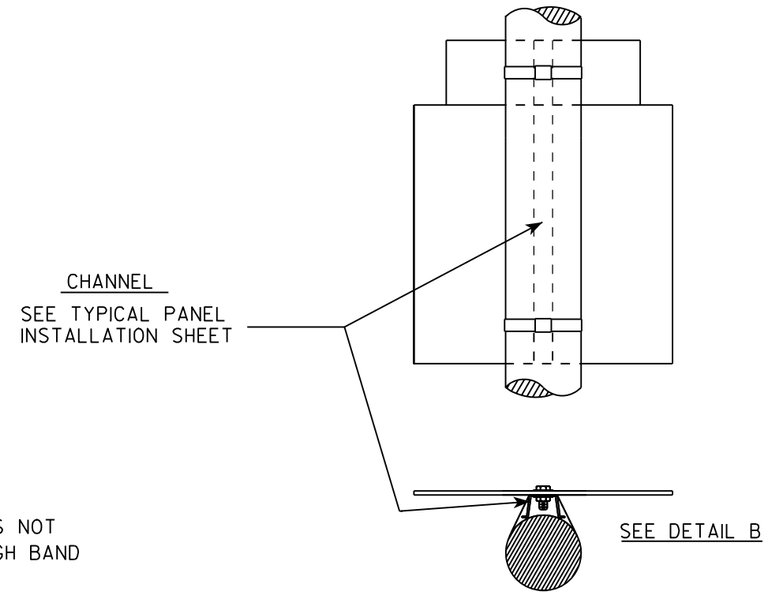
BANDING

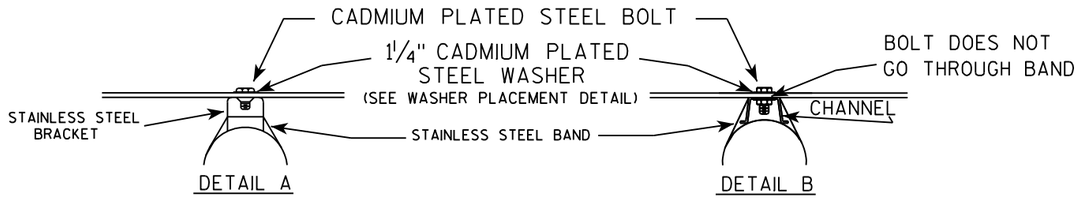
SINGLE SIGN



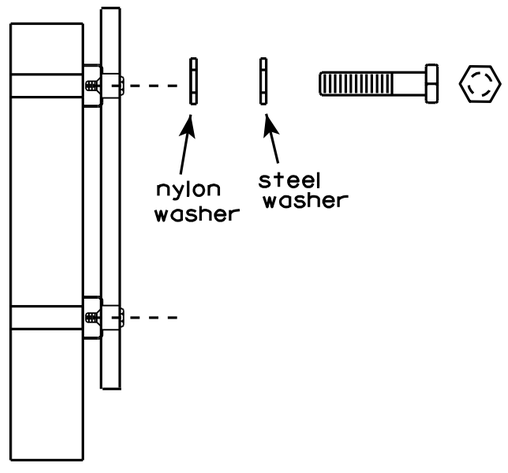


"J" ASSEMBLY





WASHER PLACEMENT



WASHERS (ALL POSTS) -
1-1/4" O.D. X 3/8" I.D. X 1/16" STEEL
1-1/4" O.D. X 3/8" I.D. X .080 NYLON
FOR ALL TYPE H SIGNS

GENERAL NOTES

1. Any sign over 3 feet in width shall use the V-Block banding method. See A5-10 standard plate.
2. Signs 3 feet or greater in height shall have three bracket bands installed. Signs less than 3 feet in height shall have two bracket bands installed.
3. Banding and assembly bracket shall be stainless steel. All bands shall be ¾" in width and 0.025" thickness.

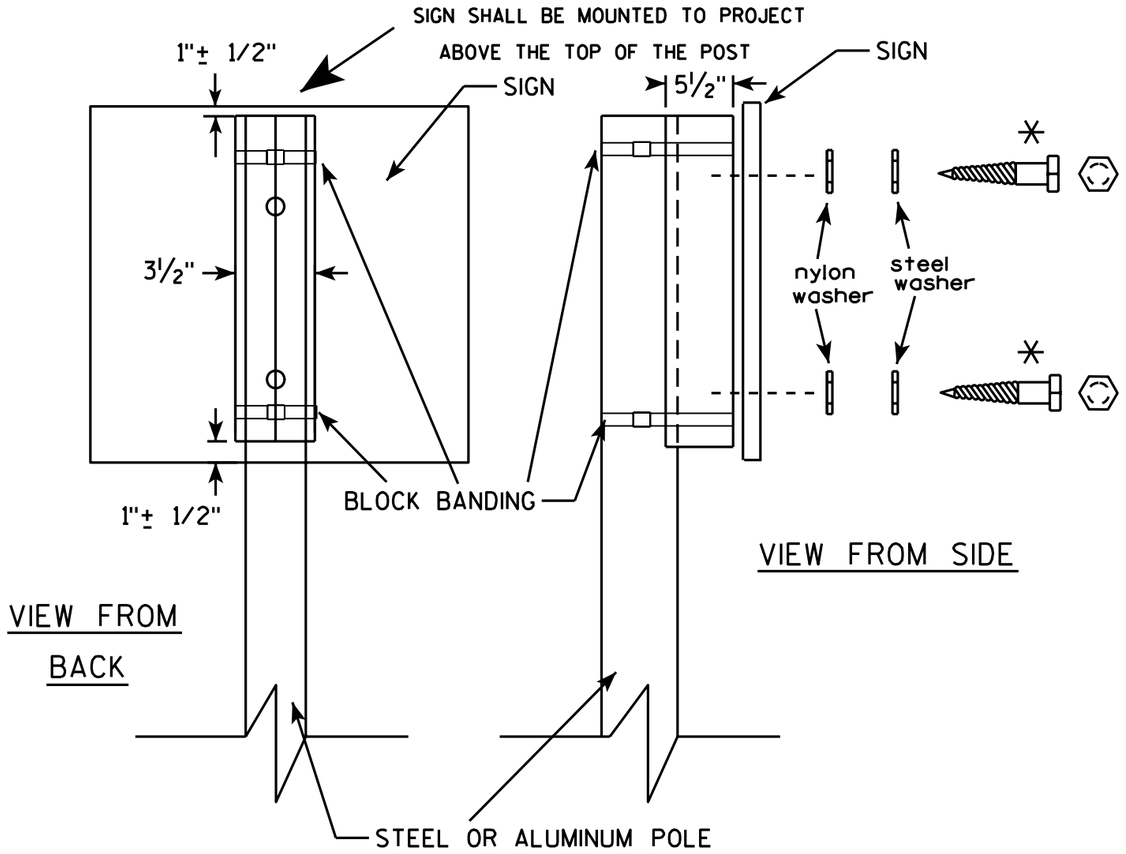
STANDARD SIGN
SIGN BANDING DETAILS

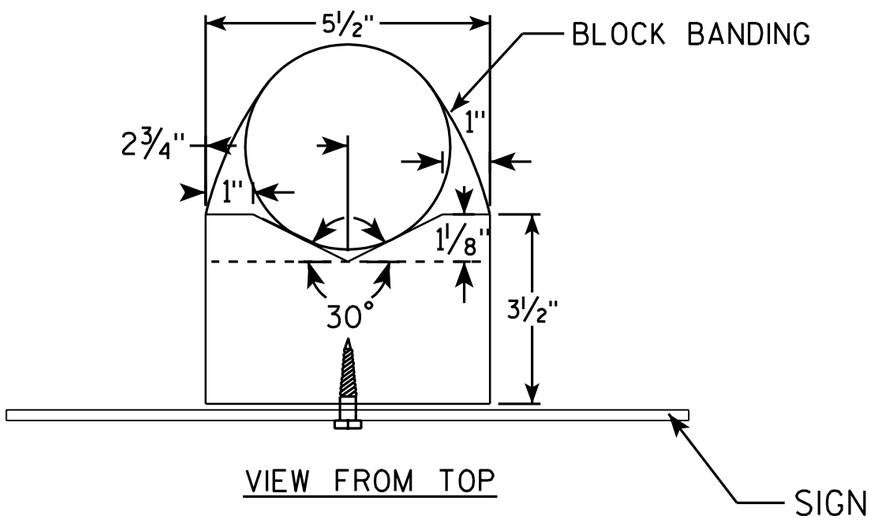
WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 8/16/13 PLATE NO. A5-9.3

PROJECT NO:	HWY:	COUNTY:		SHEET NO: 299	E





GENERAL NOTES

1. WOOD 4"X6" POST MATERIAL SHALL CONFORM TO 507.2.2 OF THE WisDOT STANDARD SPECIFICATIONS
2. BLOCK BANDING AND CLIPS SHALL BE STAINLESS STEEL, ¾" WIDTH AND 0.025" THICKNESS
3. SIGNS 3' OR GREATER IN HEIGHT SHALL UTILIZE 3 BLOCK BANDS. SIGNS UNDER 3' IN HEIGHT SHALL UTILIZE 2 BLOCK BANDS
4. ACTUAL NUMBER OF FASTENERS PER SIGN VARIES WITH THE SIGN AREA, BUT NORNALLY THERE ARE TWO. FOR SIGNS GREATER THAN 9 S.F. 3 FASTENERS SHALL BE USED.
5. ALL SIGN MOUNTING BOLTS AND WASHERS SHALL BE EITHER:
   a. Hot dip or mechanically galvanized in accordance with ASTM Designation: A 153, Class D, or
   b. Cadmium plated in accordance with ASTM Designation : B 766 TYPE 3, Class 12, or
   c. Electro-galvanized in accordance with ASTM Designation : B 633, TYPE III, SC 3.
6. ALL BOLTS SHALL HAVE HEXAGONAL HEADS.
7. STEEL WASHERS SHALL BE 1¼" O.D. X ⅜" I.D. X 1/16"
8. NYLON WASHERS SHALL BE 1¼" O.D. X ⅜" I.D. X .080 FOR TYPE H OR TYPE F FACE SIGN

✳ LAG BOLTS SHALL BE ⅜" X 2½"

BLOCK BANDING DETAIL (V-BLOCK OPTION)

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

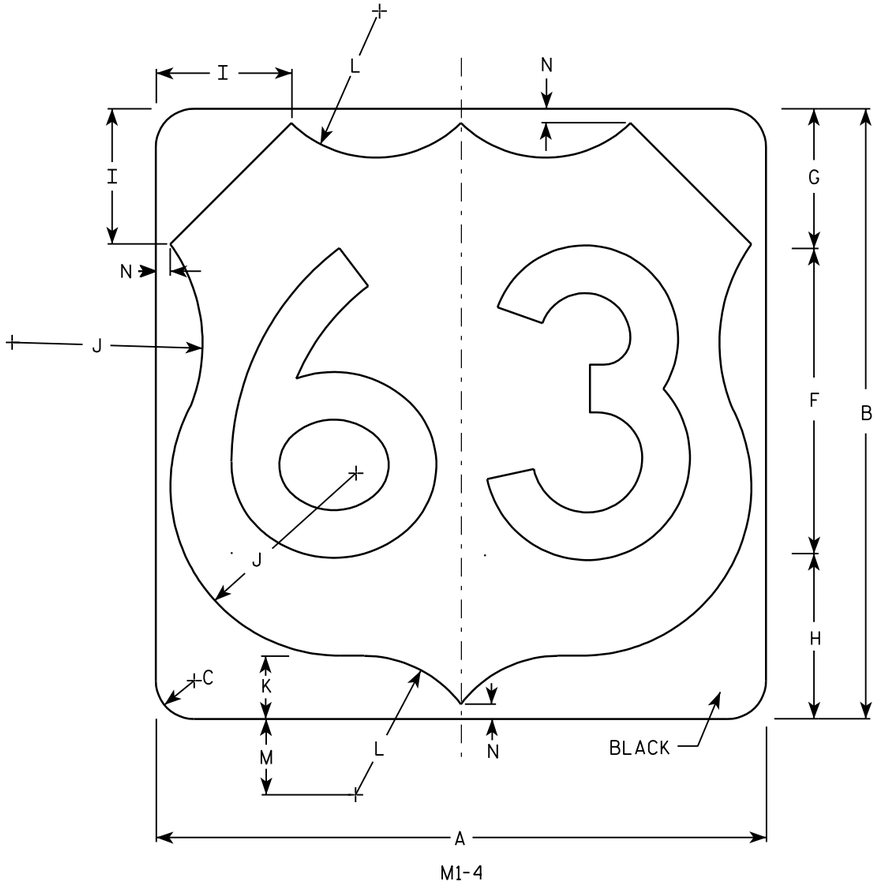
DATE 7/12/07 PLATE NO. A5-10.1

PROJECT NO:

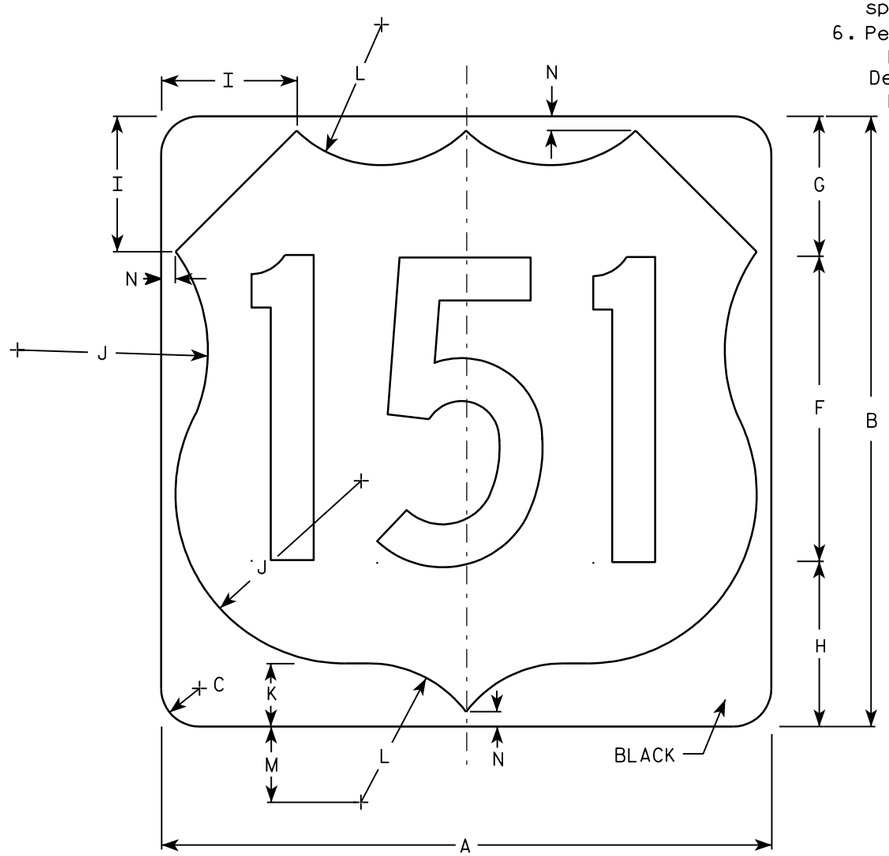
SHEET NO: 300 E

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	Area sq. ft.	Area m2
1																												
2	24	24	1 1/2			12	5 1/2	6 1/2	5	7 1/2	2 1/2	5 1/2	3	1/2													4.0	.36
3	36	36	2 1/4			18	8 1/4	9 1/4	7 1/4	11 1/4	3 3/4	8 1/4	4 1/2	3/4													9.0	.81
4	36	36	2 1/4			18	8 1/4	9 1/4	7 1/4	11 1/4	3 3/4	8 1/4	4 1/2	3/4													9.0	.81
5	36	36	2 1/4			18	8 1/4	9 1/4	7 1/4	11 1/4	3 3/4	8 1/4	4 1/2	3/4													9.0	.81

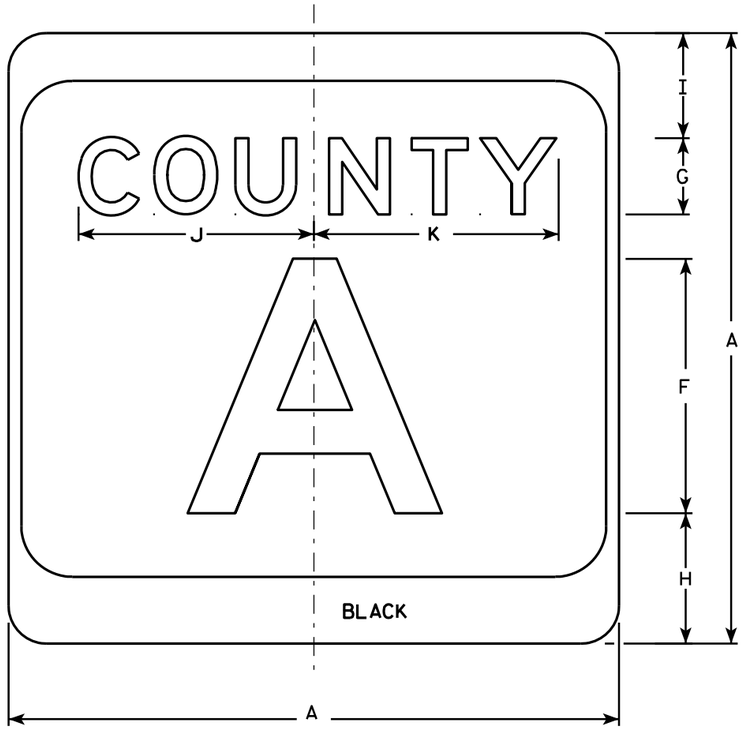
USH MARKER
M1-4 FOR ASSEMBLIES

WISCONSIN DEPT OF TRANSPORTATION

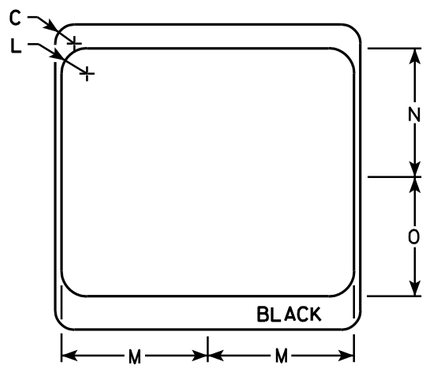
APPROVED Matthew R Rauch
for State Traffic Engineer

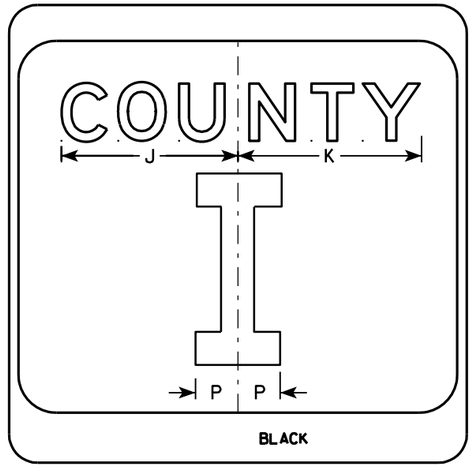
DATE 08/25/05 PLATE NO. M1-4.9

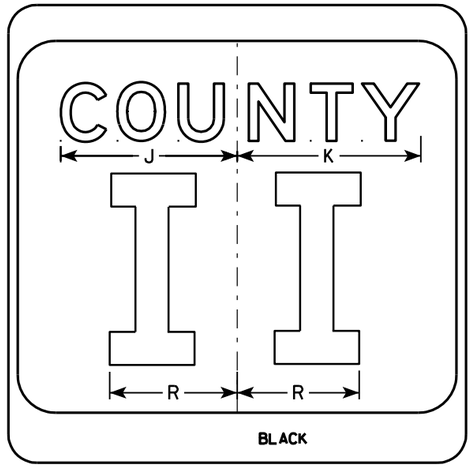
PROJECT NO: | HWY: | COUNTY: | SHEET NO: 301 | E



M1-5A







NOTES

1. Sign is Type II - see Note 7 - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - White & Black - See Note 7
   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. Message Series E for 1 letter.
   Message Series D for 2 letters unless message is too big then Series C.
   Message Series C for 3 letters unless message is too big then Series B.
6. Substitute appropriate letters & optically center to achieve proper balance.
7. Permanent Signs
   Background - Type H Reflective
   Detour or temporary Signs
   Background - Reflective

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		1 1/2			10	3	5 1/8	4 1/8	9 1/4	9 5/8	2	11 1/2	10 1/8	9 3/8	2 1/4		6 5/8									4.0
3	36		2 1/4			16	4	7 5/8	5 5/8	12 1/4	12 7/8	3	17 1/8	15 1/4	14	3 3/8		10									9.0
4	36		2 1/4			16	4	7 5/8	5 5/8	12 1/4	12 7/8	3	17 1/8	15 1/4	14	3 3/8		10									9.0
5	36		2 1/4			16	4	7 5/8	5 5/8	12 1/4	12 7/8	3	17 1/8	15 1/4	14	3 3/8		10									9.0

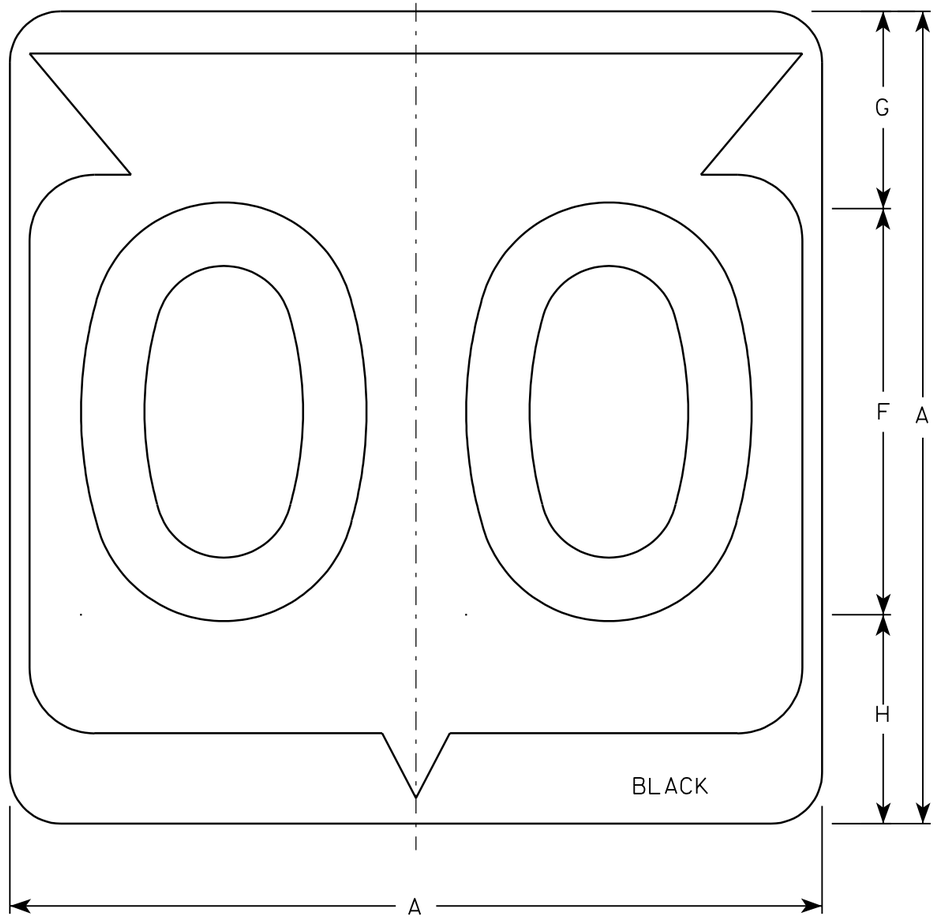
CTH MARKER
M1-5A FOR ASSEMBLIES

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 9/27/11 PLATE NO. M1-5A.8

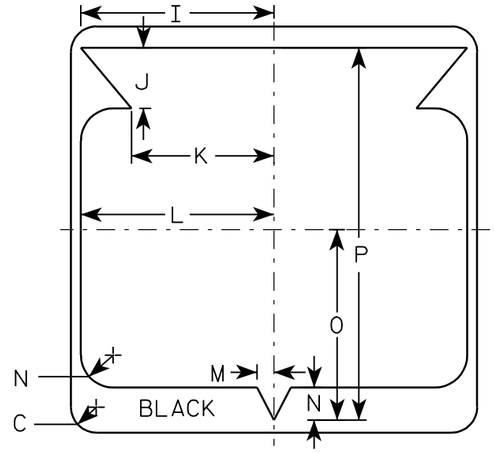
PROJECT NO: | HWY: | COUNTY: | SHEET NO: 302 | E



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

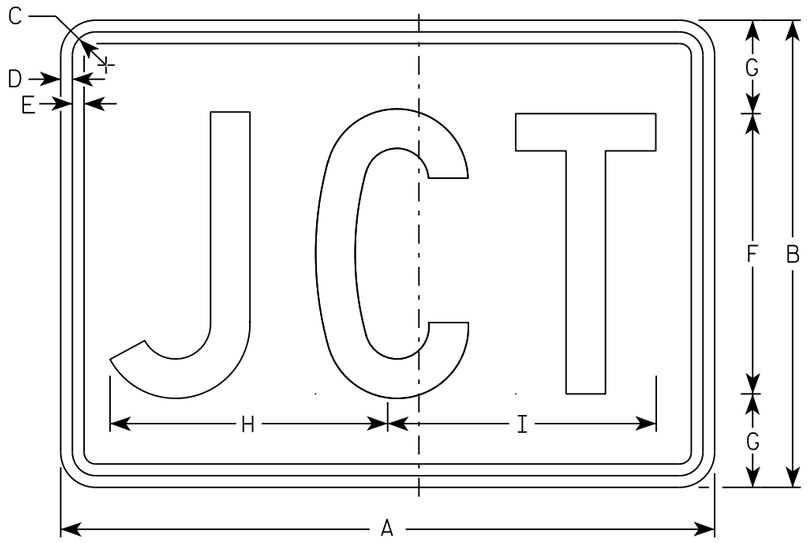
STATE ROUTE MARKER M1-6 FOR ASSEMBLIES

WISCONSIN DEPT OF TRANSPORTATION

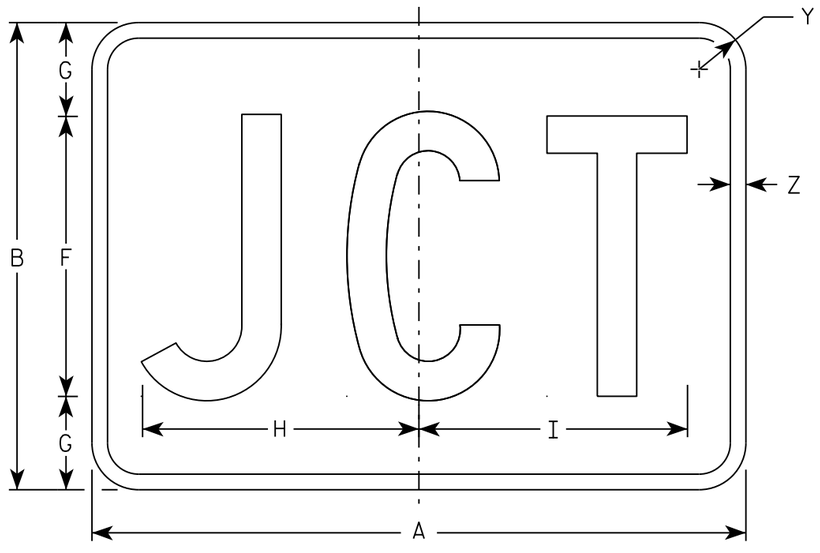
APPROVED Chester J Spang for State Traffic Engineer

DATE 3/20/02 PLATE NO. M1-6.9

PROJECT NO:	HWY:	COUNTY:		SHEET NO: 303	E



M2-1
MM2-1
MP2-1



MB2-1
MK2-1
MN2-1
MR2-1

NOTES

1. Sign is 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. M2-1 Background - White
   Message - Black
   MB2-1 Background - Blue
   Message - White
   MK2-1 Background - Green
   Message - White
   MM2-1 Background - White
   Message - Green
   MN2-1 Background - Brown
   Message - White
   MP2-1 Background - White
   Message - Blue
   MR2-1 Background - Brown
   Message - Yellow

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	15	1 1/8	3/8	3/8	9	3	8 7/8	8 5/8																1 1/2	1/2	2.20
3	30	21	1 1/8	3/8	3/8	13	4	12 7/8	12 3/8																1 1/2	1/2	4.40
4	30	21	1 1/8	3/8	3/8	13	4	12 7/8	12 3/8																1 1/2	1/2	4.40
5	30	21	1 1/8	3/8	3/8	13	4	12 7/8	12 3/8																1 1/2	1/2	4.40

STANDARD SIGN
M2-1

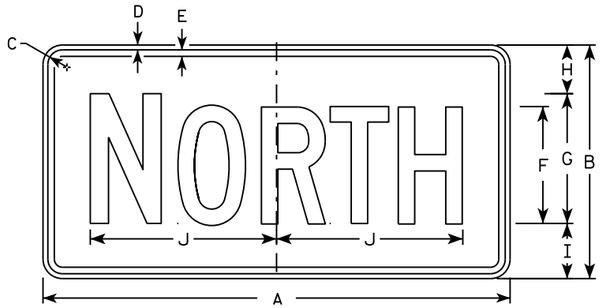
WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

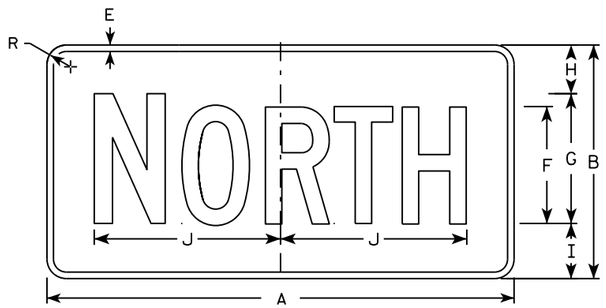
DATE 10/15/15 PLATE 304 12-1.12

PROJECT NO:	HWY:	COUNTY:		SHEET NO:	E

FILE NAME : C:\CAEfiles\Projects\tr_stdplate\M21.DGN PLOT DATE : 01-DEC-2015 17:54 PLOT BY : $$ plotuser $$ PLOT NAME : PLOT SCALE : 4.864603:1.000000



M3-1
MM3-1
MP3-1



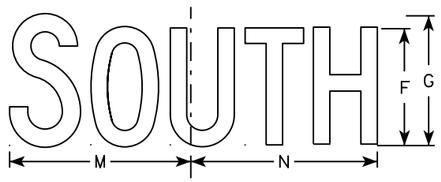
MB3-1
MK3-1
MN3-1



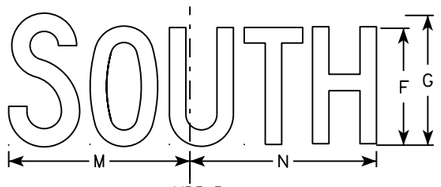
M3-2
MM3-2
MP3-2



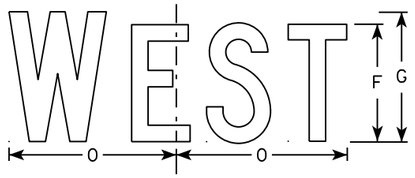
MB3-2
MK3-2
MN3-2



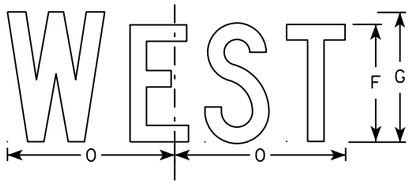
M3-3
MM3-3
MP3-3



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

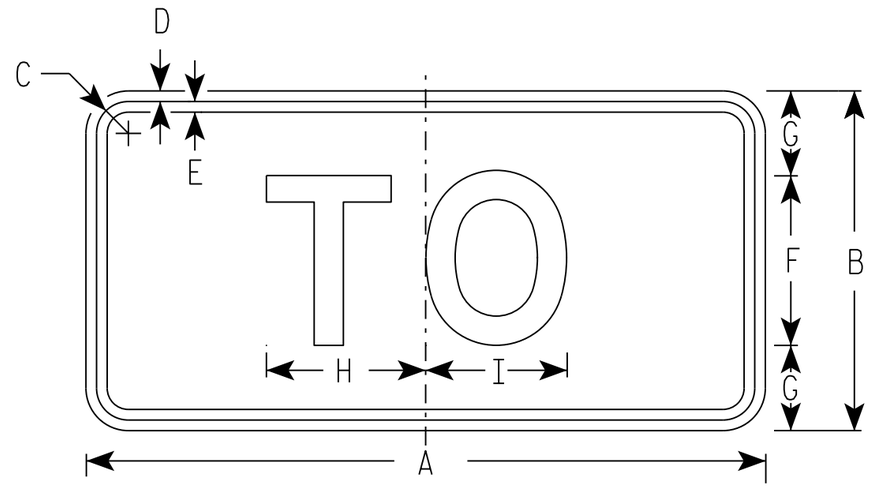
WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew P Rauch for State Traffic Engineer

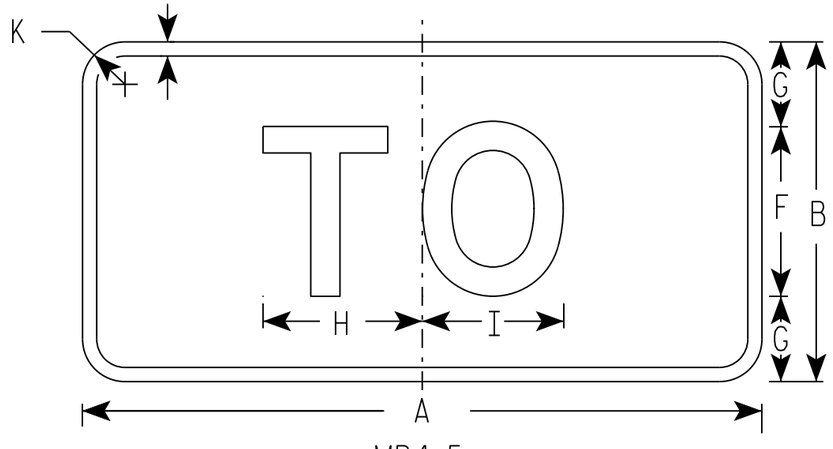
DATE 10/15/15 PLATE NO M3-1.14

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



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

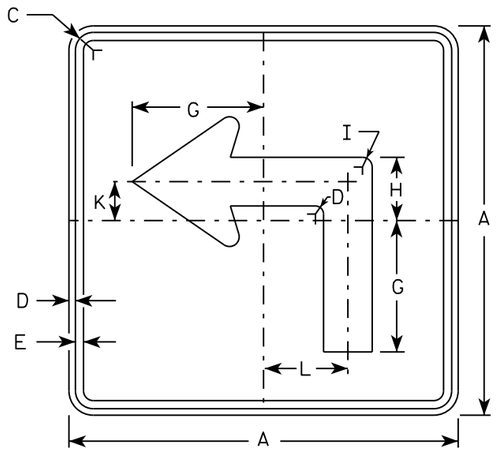
WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

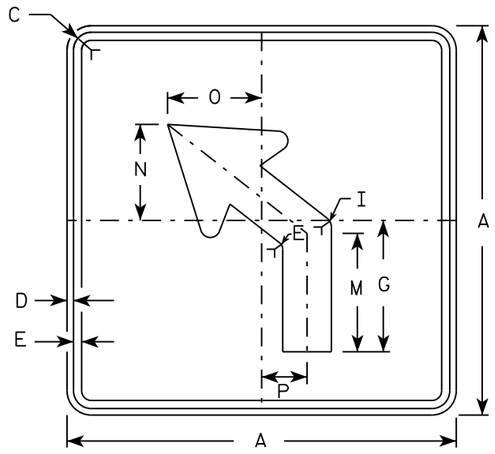
DATE 10/15/15 PLATE 306 M4-5.8

PROJECT NO: | HWY: | COUNTY: | SHEET NO: E

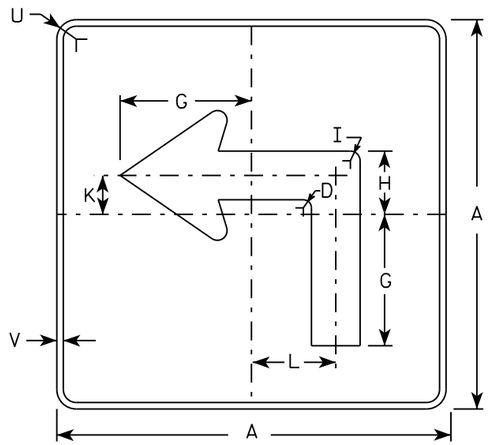
FILE NAME : C:\CAEfiles\Projects\tr_stdplate\M45.DGN PLOT DATE : 01-DEC-2015 17:55 PLOT BY : $$ plotuser $$ PLOT NAME : PLOT SCALE : 5.351066:1.000000



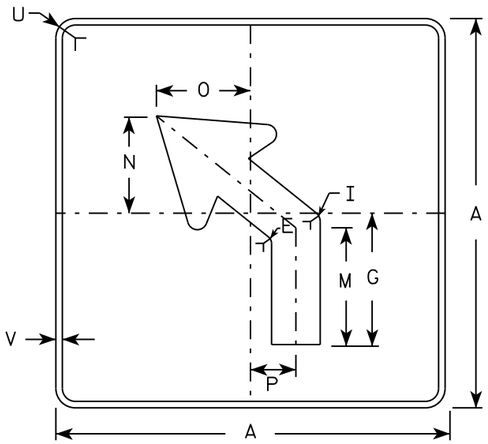
M5-1L
MM5-1L
MO5-1L
MP5-1L



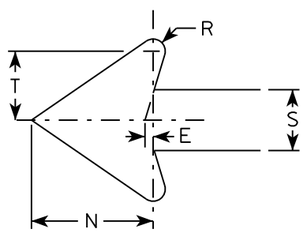
M5-2L
MM5-2L
MO5-2L
MP5-2L



MB5-1L
MK5-1L
MN5-1L
MR5-1L



MB5-2L
MK5-2L
MN5-2L
MR5-2L



NOTES

1. Signs are Type II - Type H reflective 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. M5-1 and M5-2 Background - White
   Message - Black
   MB5-1 and MB5-2 Background - Blue
   Message - White
   MK5-1 and MK5-2 Background - Green
   Message - White
   MM5-1 and MM5-2 Background - White
   Message - Green
   MN5-1 and MN5-2 Background - Brown
   Message - White
   MO5-1 and MO5-2 Background - Orange - Type F Reflective
   Message - Black
   MP5-1 and MP5-2 Background - White - Type H Reflective
   Message - Blue
   MR5-1 and MR5-2 Background - Brown
   Message - Yellow
5. M5-1R same as M5-1L except arrow points right.
6. M5-2R same as M5-2L except arrow tilts right.

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	3 3/8	5/8		2 1/8	4 1/2	6 3/8	5 1/4	5	2 1/2		1/2	2 5/8	3	1 1/2	1/2					3.06
3	30		1 3/8	1/2	5/8		10 1/8	4 7/8	7/8		3	6 1/2	9 1/8	7 1/2	7 1/4	3 1/2		3/4	3 3/4	4 1/4	1 7/8	1/2					6.25
4	30		1 3/8	1/2	5/8		10 1/8	4 7/8	7/8		3	6 1/2	9 1/8	7 1/2	7 1/4	3 1/2		3/4	3 3/4	4 1/4	1 7/8	1/2					6.25
5	30		1 3/8	1/2	5/8		10 1/8	4 7/8	7/8		3	6 1/2	9 1/8	7 1/2	7 1/4	3 1/2		3/4	3 3/4	4 1/4	1 7/8	1/2					6.25

STANDARD SIGN
M5-1 & M5-2

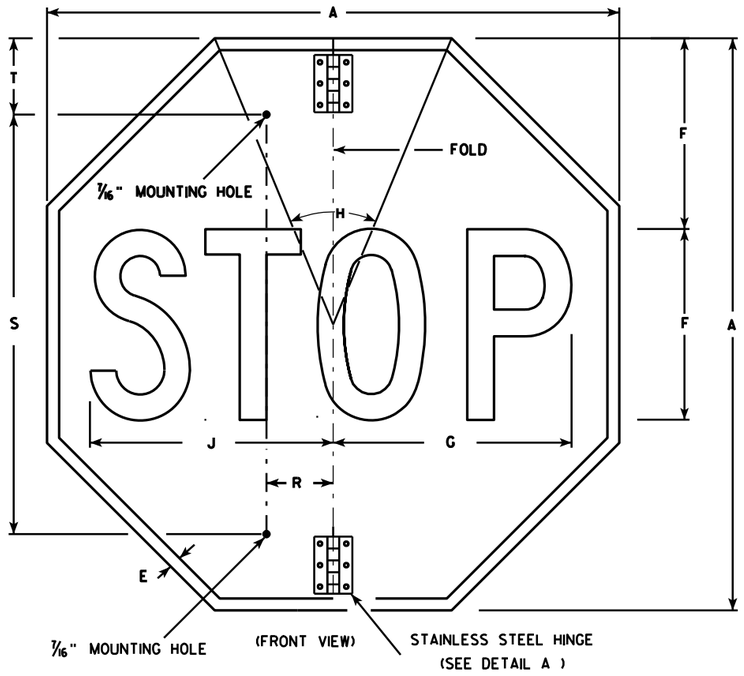
WISCONSIN DEPT OF TRANSPORTATION

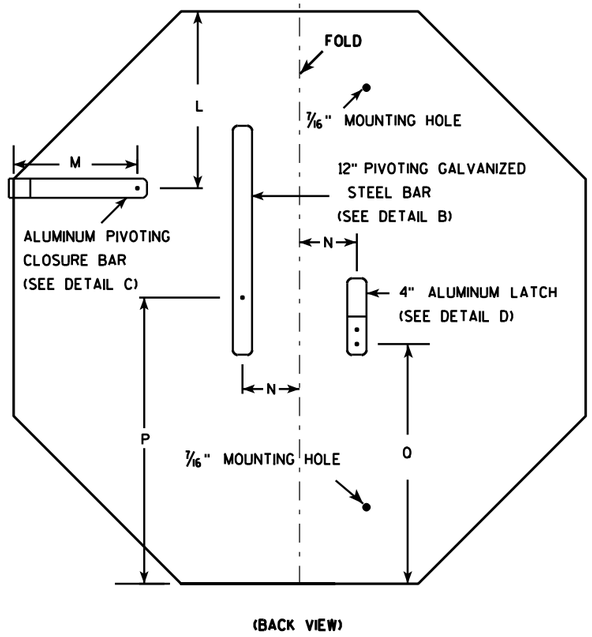
APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 10/15/15 PLATE NO. M5-1.13

PROJECT NO: | HWY: | COUNTY: | SHEET NO: E

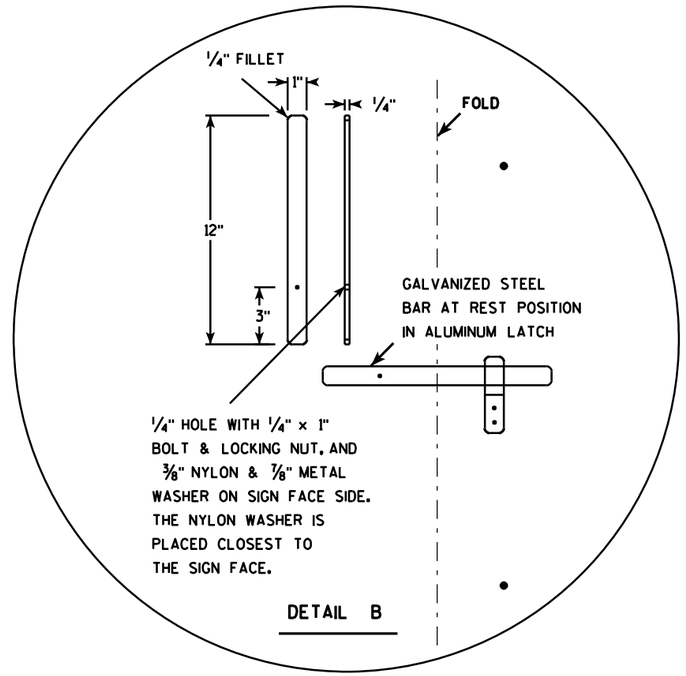
FILE NAME : C:\CAEfiles\Projects\tr_stdplate\M51.DGN PLOT DATE : 01-DEC-2015 18:07 PLOT BY : $$ plotuser $$ PLOT NAME : PLOT SCALE : 11.675051:1.000000



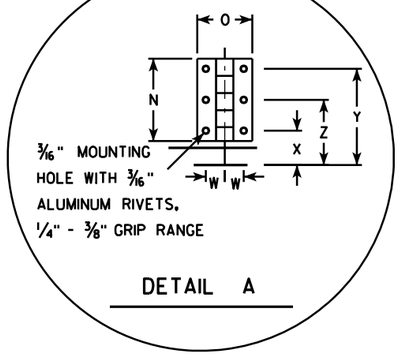


NOTES

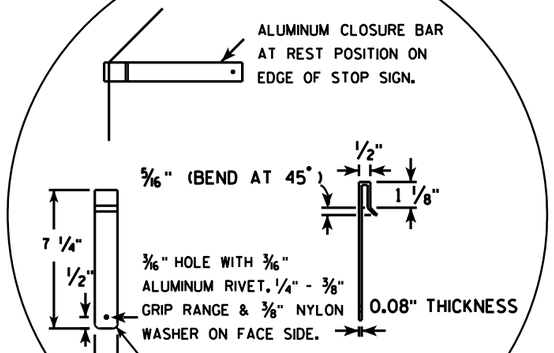
1. Sign is Type II - Type H Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - Red
   Message - White
3. Message Series - C
4. All hardware used on the folding STOP sign installation shall conform to 637.2.4 of the WIS DOT Standard Specification.



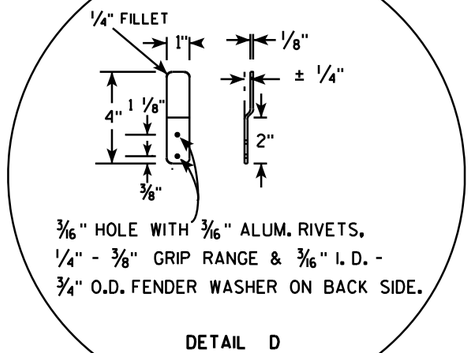
DETAIL B



DETAIL A



DETAIL C



DETAIL D

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	O	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1																											
2S	30				5/8	10	12 1/2	45		12 3/4		9 1/4	6 1/2	3	2	15	12 3/8	2 1/2	22	5			11/16	1 1/4	3 1/2	2 3/8	5.18
2M	36				3/4	12	15	45		15 3/8		11	6 1/2	3	2	18	15 3/8	2 1/2	26	5			11/16	1 1/4	3 1/2	2 3/8	7.46
3	36				3/4	12	15	45		15 3/8		11	6 1/2	3	2	18	15 3/8	2 1/2	26	5			11/16	1 1/4	3 1/2	2 3/8	7.46
4																											
5																											

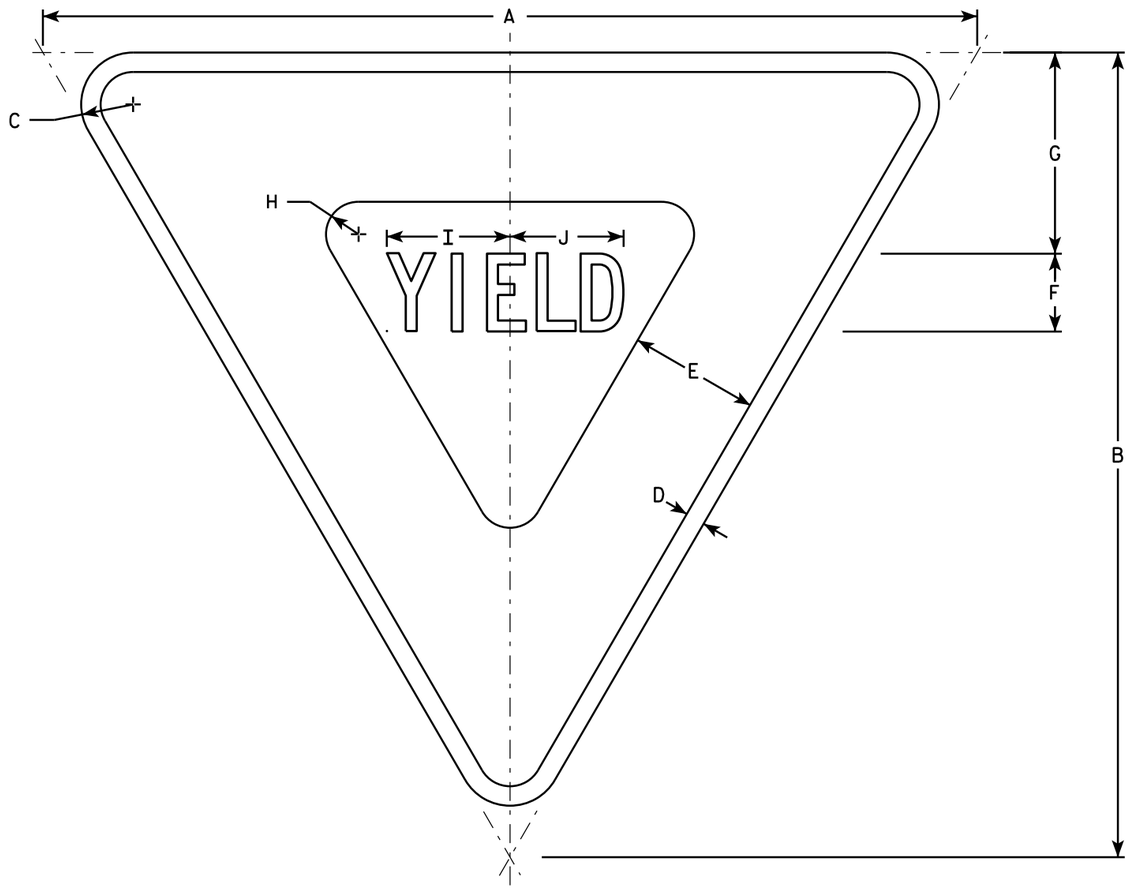
STANDARD SIGN
R1-1F

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 12/03/10 PLATE NO. R1-1F.3

PROJECT NO: | HWY: | COUNTY: | SHEET NO: 308 | E



R1-2

NOTES

1. Sign is Type II - Type H Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - White
   Message - See note 5
3. Message Series - C
4. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.
5. The border strip and word message are reflectorized red.

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	26	1 1/2	5/8	4	2 1/2	6 3/8	7/8	4	3 5/8																	2.71
2S	36	31	2	3/4	5	3	7 3/4	1 1/4	4 3/4	4 3/8																	3.88
2M	48	42	3	1	6	4	9 3/4	2	6 1/4	5 7/8																	7.00
3	48	42	3	1	6	4	9 3/4	2	6 1/4	5 7/8																	7.00
4	48	42	3	1	6	4	9 3/4	2	6 1/4	5 7/8																	7.00
5	60	52	3	1 1/2	8	5	13	2 1/2	7 7/8	7 1/4																	10.83
6																											
7	18	15 1/2	1	3/8	2 1/2	1 1/2	3 7/8	5/8	2 3/8	2 1/4																	0.97

STANDARD SIGN
R1-2

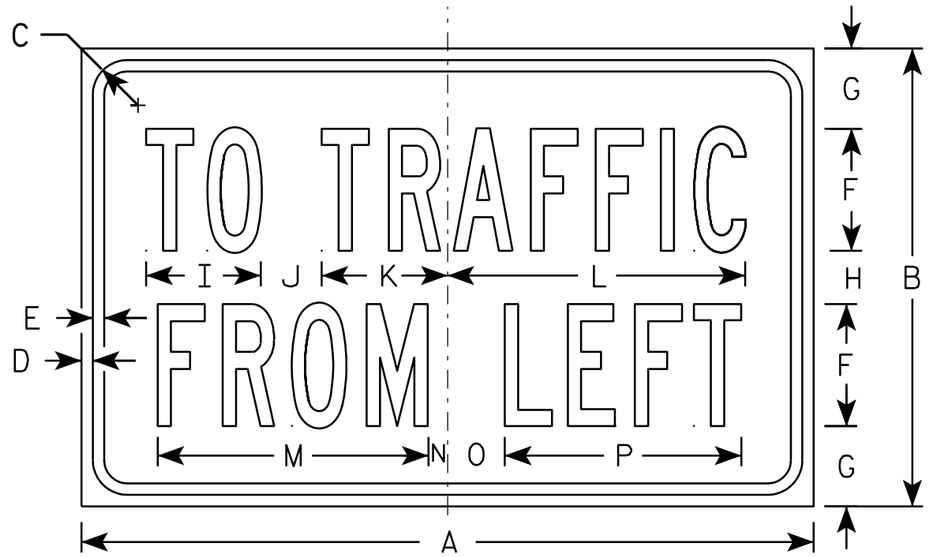
WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 10/13/14 PLATE R1-2.12

PROJECT NO: | HWY: | COUNTY: | SHEET NO: E

FILE NAME : C:\CAEFiles\Projects\tr_stdplate\R12.DGN PLOT DATE : 13-OCT-2014 15:12 PLOT BY : mscsja PLOT NAME : PLOT SCALE : 5.837526:1.000000
WISDOT/CADDS SHEET 42



R1-54

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 - B

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	24	15	1 1/8	3/8	3/8	4	2 5/8	1 3/4	3 3/4	2	4 1/8	9 3/4	8 7/8	5/8	1 7/8	7 3/4											2.5
2M	24	15	1 1/8	3/8	3/8	4	2 5/8	1 3/4	3 3/4	2	4 1/8	9 3/4	8 7/8	5/8	1 7/8	7 3/4											2.5
3																											
4																											
5																											

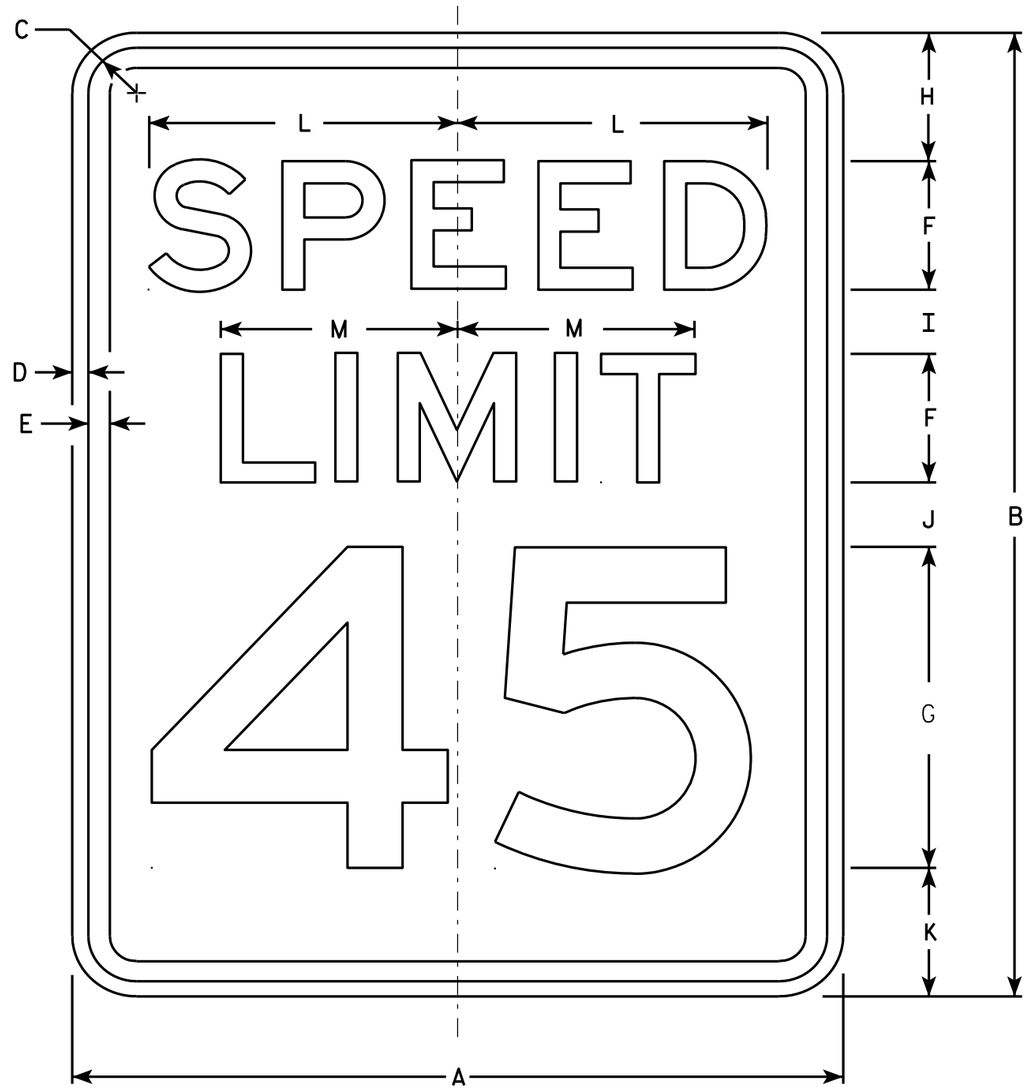
STANDARD SIGN
R1-54

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 12/03/10 PLATE NO. R1-54.2

PROJECT NO:	HWY:	COUNTY:		SHEET NO: 310	E



R2-1

NOTES

1. Sign is Type II - Type H Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - White
   Message - Black
3. Message Series - E
4. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.
5. Substitute appropriate numerals and optically adjust spacing to achieve proper balance.

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

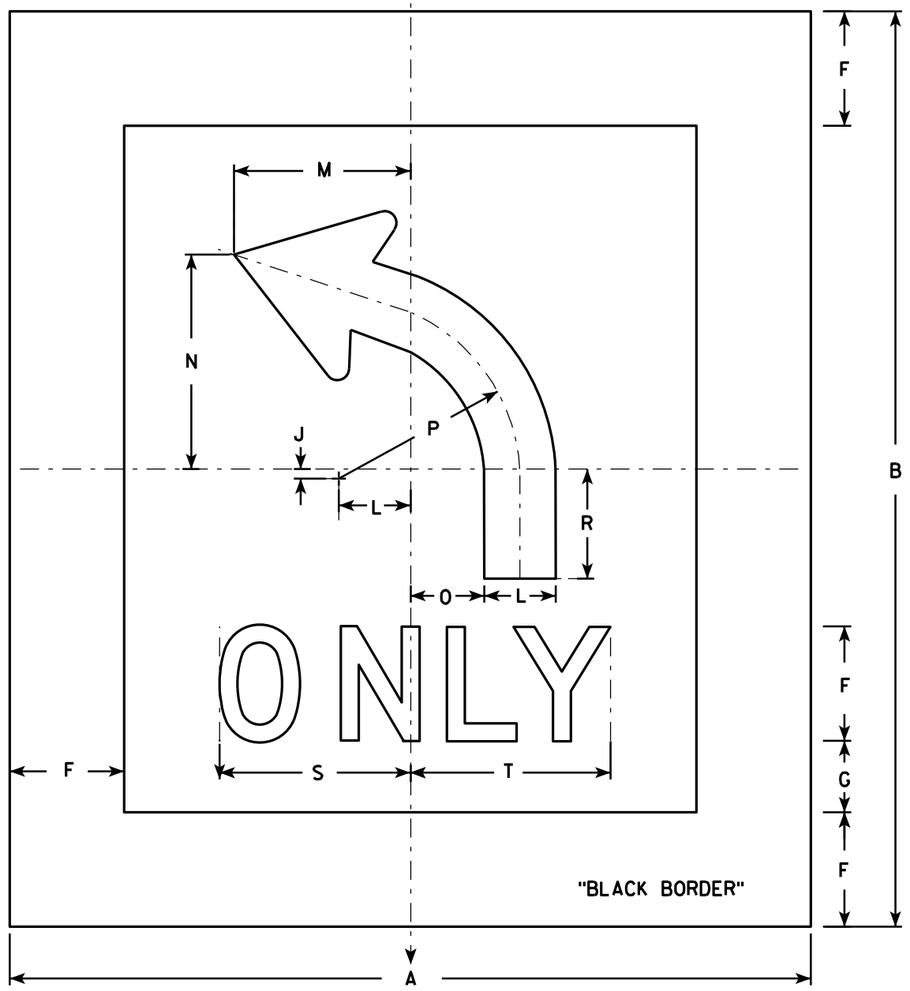
STANDARD SIGN
R2-1

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 5/26/10 PLATE NO. R2-1.13

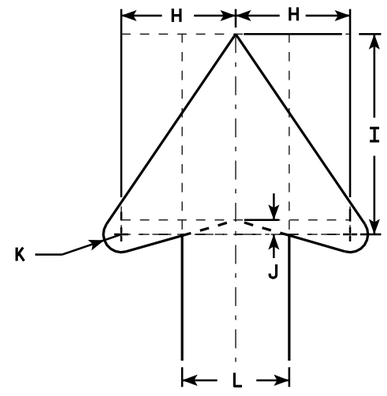
PROJECT NO: | HWY: | COUNTY: | SHEET NO: 311 | E



R3-5L

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. When base material is metal, the corners shall be rounded.
5. R3-5R is the same as R3-5L except curved portion of arrow points right.
6. The 6" border is non-reflective black.



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	42	48				6	3 3/4	4	7	1/2	5/8	3 3/4	9 1/4	11 1/4	3 7/8	9 1/2		5 3/4	10	10 1/2							1.26
2M	42	48				6	3 3/4	4	7	1/2	5/8	3 3/4	9 1/4	11 1/4	3 7/8	9 1/2		5 3/4	10	10 1/2							1.26
3																											
4																											
5																											

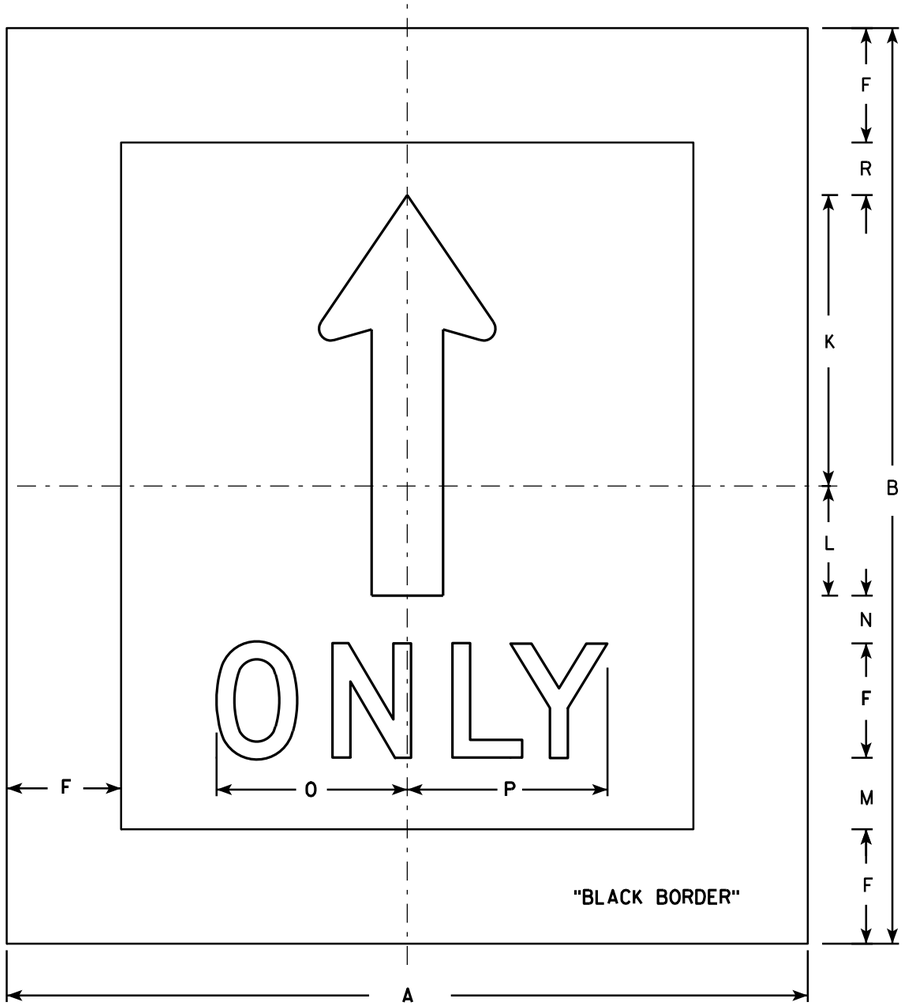
STANDARD SIGN
R3-5

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 2/24/11 PLATE NO. R3-5.6

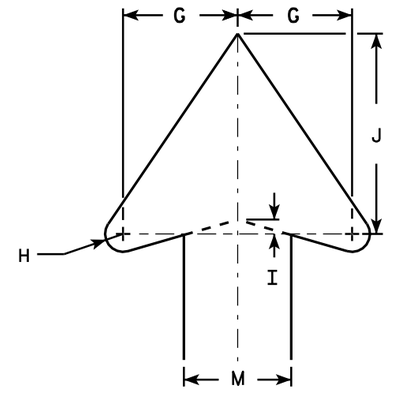
PROJECT NO: | HWY: | COUNTY: | SHEET NO: 312 | E



R3-5A

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. When base material is metal, the corners shall be rounded.
5. The 6" border is non-reflective black.



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	42	48				6	4	5/8	1/2	7	15 1/4	5 3/4	3 3/4	2 1/2	10	10 1/2		2 3/4									1.26
2M	42	48				6	4	5/8	1/2	7	15 1/4	5 3/4	3 3/4	2 1/2	10	10 1/2		2 3/4									1.26
3																											
4																											
5																											

STANDARD SIGN
R3-5A

WISCONSIN DEPT OF TRANSPORTATION

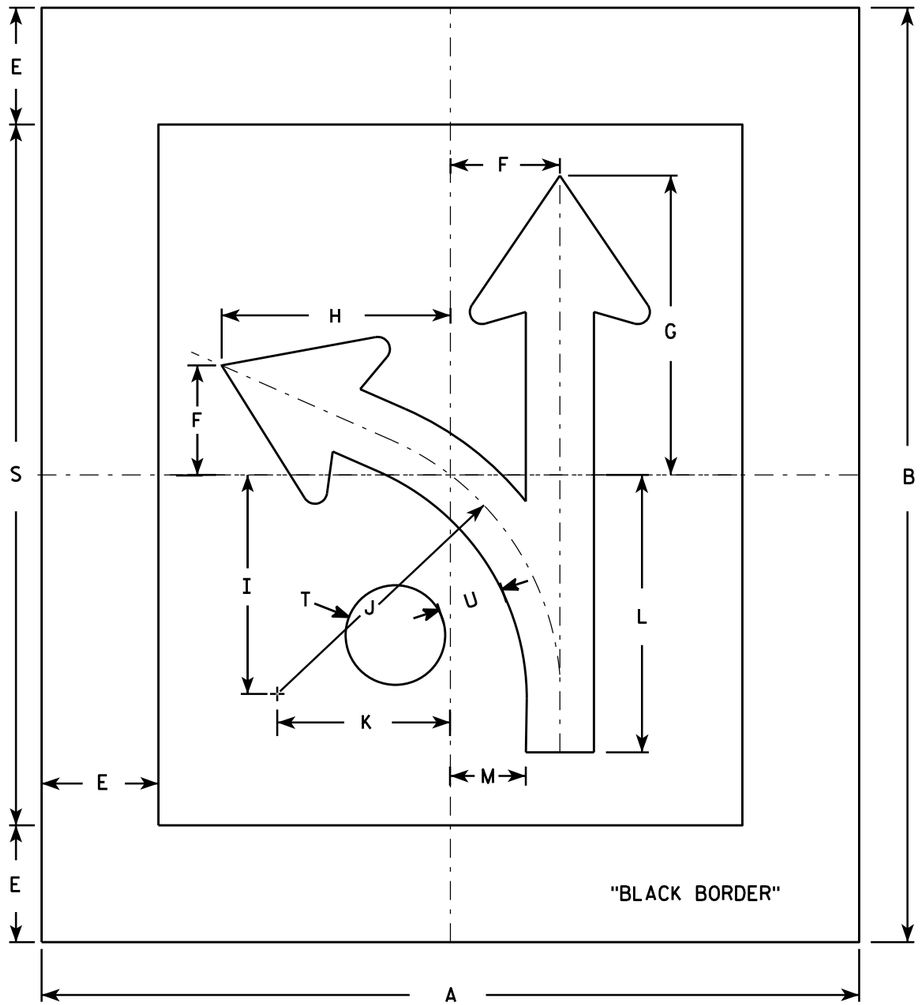
APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 2/24/11 PLATE NO. R3-5A.5

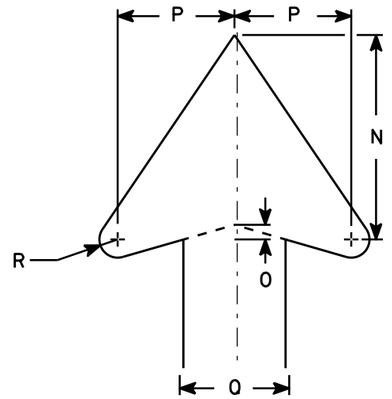
PROJECT NO:	HWY:	COUNTY:		SHEET NO: 313	E

NOTES

1. Sign is Type II - Type H Reflective
2. Color:
   Background - White
   Message - Black
3. Corners may be square or rounded when base material is plywood. When base material is metal, the corners shall be rounded.
4. The 6" border is non-reflective black.



R3-6X



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	42	48			6	5 5/8	15 3/8	11 3/4	11 1/4	14 1/2	8 7/8	14 1/4	3 7/8	7	1/2	4	3 1/2	5/8	36	5	3 1/2						14.0
2M	42	48			6	5 5/8	15 3/8	11 3/4	11 1/4	14 1/2	8 7/8	14 1/4	3 7/8	7	1/2	4	3 1/2	5/8	36	5	3 1/2						14.0
3																											
4																											
5																											

STANDARD SIGN
R3-6X

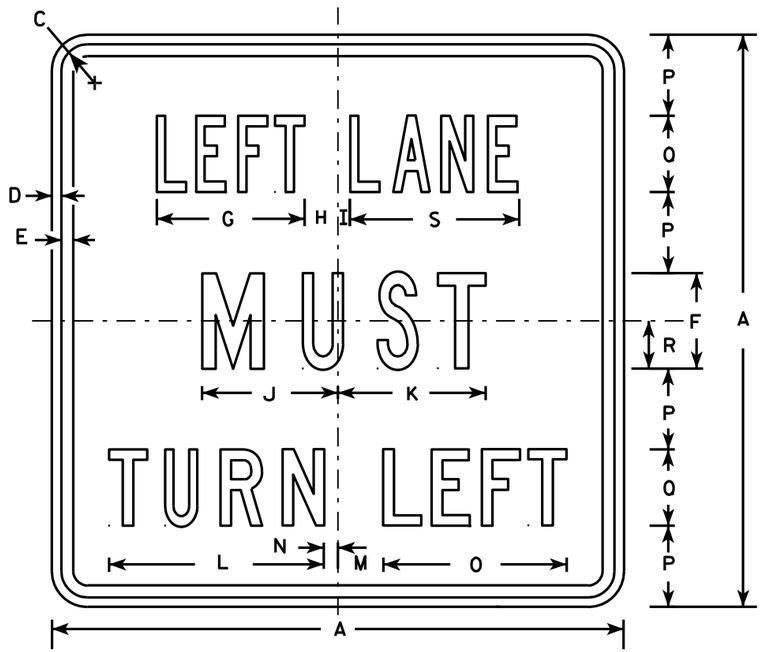
WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

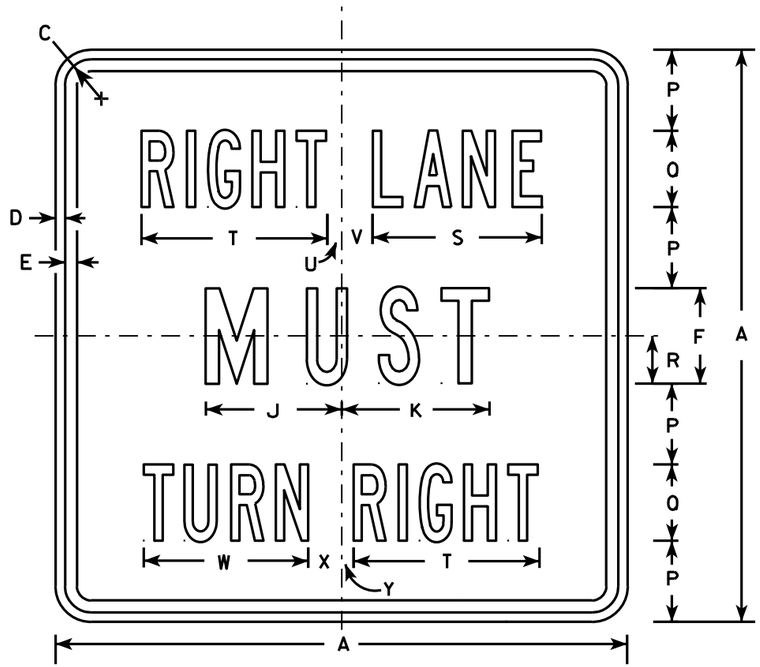
DATE 2/05/15 PLATE R3-6X.3

PROJECT NO:	HWY:	COUNTY:		SHEET NO:	E

FILE NAME : C:\CAEFiles\Projects\tr_stdplate\R36X.DGN PLOT DATE : 05-FEB-2015 14:49 PLOT BY : mscsja PLOT NAME : PLOT SCALE : 7.783368:1.000000
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																											

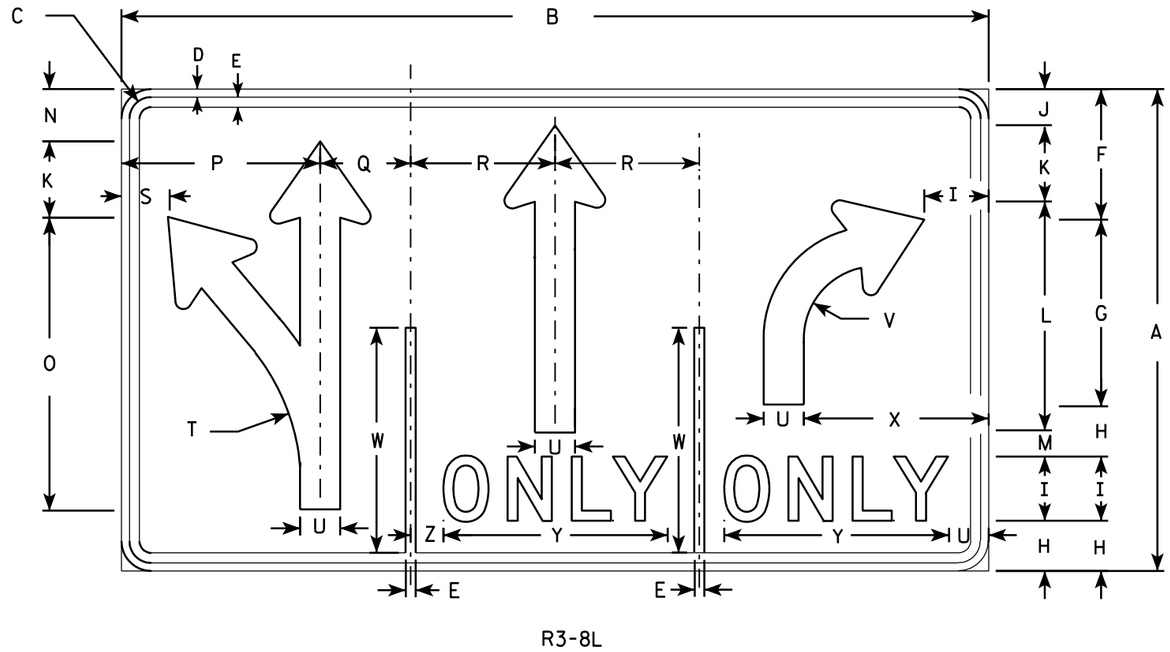
STANDARD SIGN
R3-7L & R3-7R

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: 315 | E

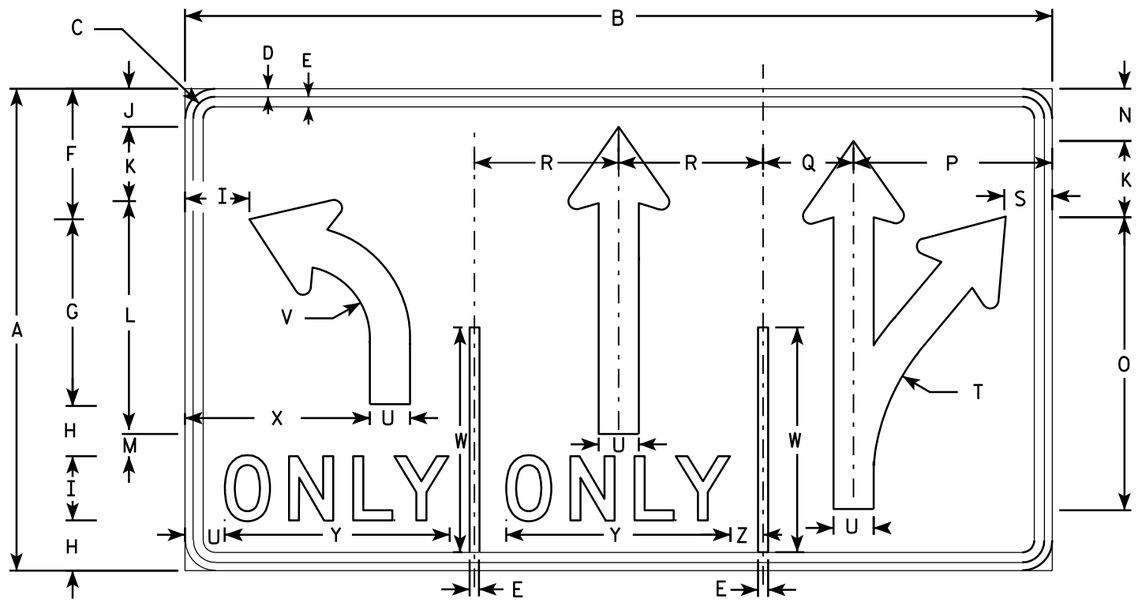


R3-8L

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.

SEE R3-8 FOR ARROW DETAIL



R3-8M

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	O	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1																											
2S	30	54	1 3/8	1/2	5/8	8 1/8	11 5/8	3 1/8	4	2 1/4	4 3/4	14 1/4	1 5/8	3 1/4	18 1/4	12 3/8	5 5/8	9	3	13 1/4	2 1/2	4 1/2	14	11 1/2	14	2	11.25
2M	30	54	1 3/8	1/2	5/8	8 1/8	11 5/8	3 1/8	4	2 1/4	4 3/4	14 1/4	1 5/8	3 1/4	18 1/4	12 3/8	5 5/8	9	3	13 1/4	2 1/2	4 1/2	14	11 1/2	14	2	11.25
3																											
4	48	84	2 1/4	3/4	1	13 1/4	18 1/2	5 1/8	6	3 1/2	7	29 1/8	2 7/8	5 1/4	29 1/8	18 5/8	8 3/4	14	4 3/8	21 7/8	3 3/4	7 1/4	22 3/8	17 1/4	20 5/8	3 1/4	28.0
5	48	84	2 1/4	3/4	1	13 1/4	18 1/2	5 1/8	6	3 1/2	7	29 1/8	2 7/8	5 1/4	29 1/8	18 5/8	8 3/4	14	4 3/8	21 7/8	3 3/4	7 1/4	22 3/8	17 1/4	20 5/8	3 1/4	28.0

STANDARD SIGN
R3-8L & R3-8M

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

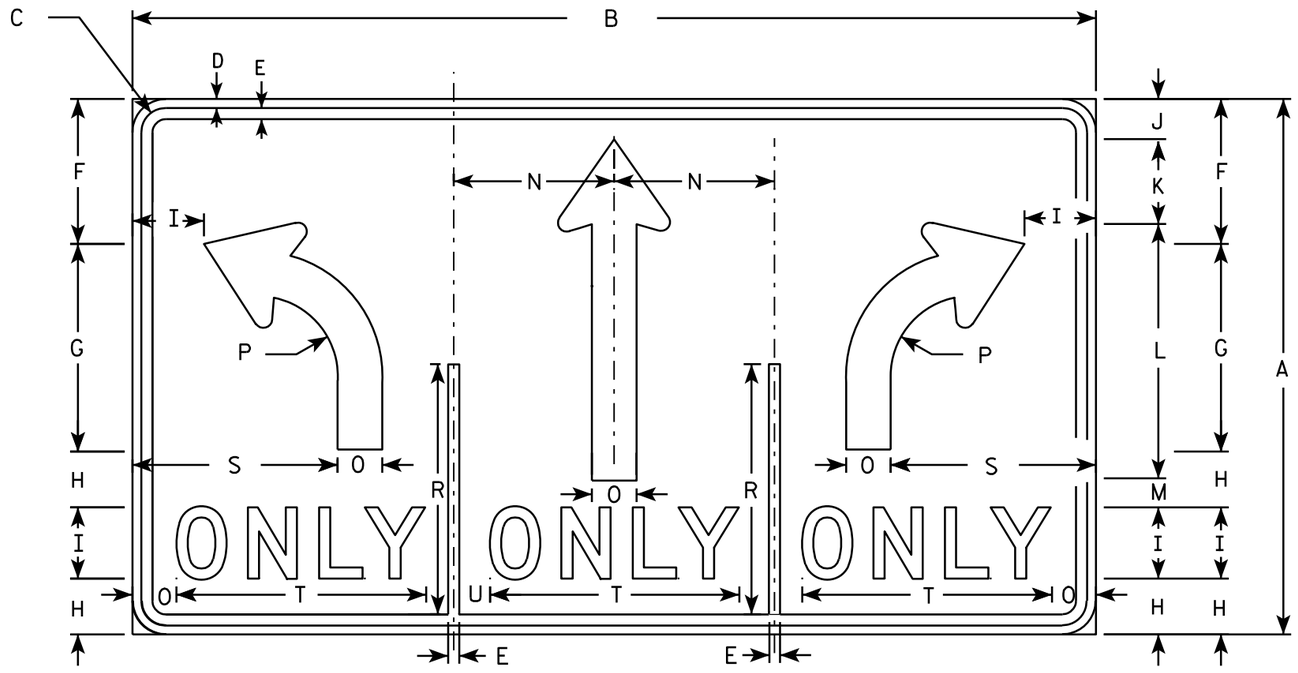
DATE 3/21/2011 PLATE NO. R3-8L.2

PROJECT NO:

SHEET NO: 316 E

7

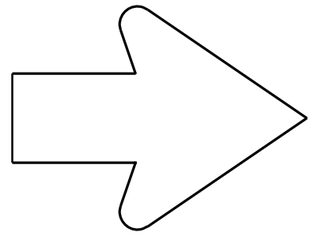
FILE NAME : C:\Users\PROJECTS\tr_stdplate\R38L.DGN PLOT DATE : 21-MAR-2011 14:39 PLOT BY : mscsja PLOT NAME :



R3-8W

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.



SEE R3-8 FOR ARROW DETAIL

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	O	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1																											
2S	30	54	1 3/8	1/2	5/8	8 1/8	11 5/8	3 1/8	4	2 1/4	4 3/4	14 1/4	1 5/8	9	2 1/2	4 1/2		14	11 1/2	14	2						11.25
2M	30	54	1 3/8	1/2	5/8	8 1/8	11 5/8	3 1/8	4	2 1/4	4 3/4	14 1/4	1 5/8	9	2 1/2	4 1/2		14	11 1/2	14	2						11.25
3																											
4	48	84	2 1/4	3/4	1	13	18 1/2	5 1/4	6	3 3/4	7	29 1/8	2 3/8	14	3 3/4	7 1/4		22 3/8	17 1/4	20 1/2	3 1/4						28.0
5	48	84	2 1/4	3/4	1	13	18 1/2	5 1/4	6	3 3/4	7	29 1/8	2 7/8	14	3 3/4	7 1/4		22 3/8	17 1/4	20 1/2	3 1/4						28.0

STANDARD SIGN
R3-8W

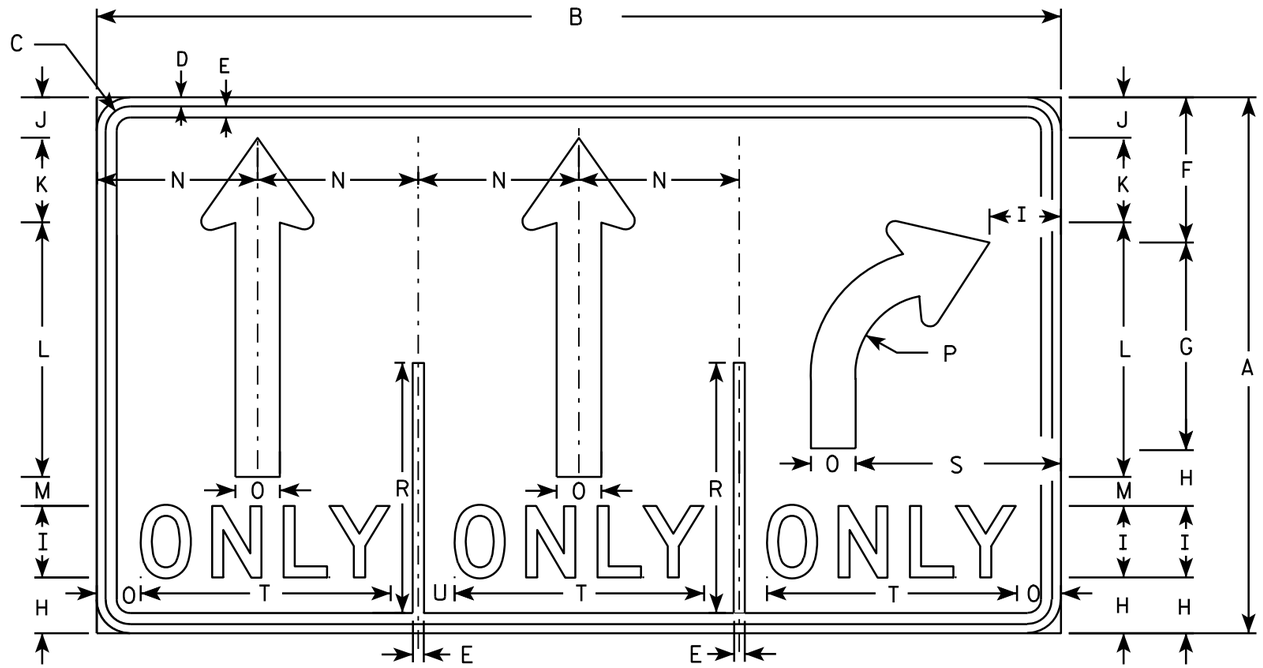
WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 3/24/2011 PLATE NO. R3-8W.4

PROJECT NO:

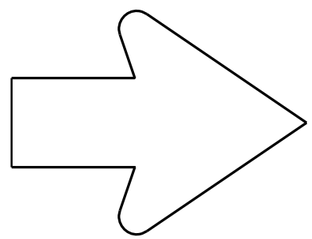
SHEET NO: 317 E



R3-8X

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.



SEE R3-8 FOR ARROW DETAIL

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	O	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1																											
2S	30	54	1 3/8	1/2	5/8	8 1/8	11 5/8	3 1/8	4	2 1/4	4 3/4	14 1/4	1 5/8	9	2 1/2	4 1/2		14	11 1/2	14	2						11.25
2M	30	54	1 3/8	1/2	5/8	8 1/8	11 5/8	3 1/8	4	2 1/4	4 3/4	14 1/4	1 5/8	9	2 1/2	4 1/2		14	11 1/2	14	2						11.25
3																											
4	48	84	2 1/4	3/4	1	13	18 1/2	5 1/4	6	3 3/4	7 5/8	23	2 3/8	14	3 3/4	7 1/4		22 3/8	17 1/4	20 1/2	3 1/4						28.0
5	48	84	2 1/4	3/4	1	13	18 1/2	5 1/4	6	3 3/4	7 5/8	23	2 3/8	14	3 3/4	7 1/4		22 3/8	17 1/4	20 1/2	3 1/4						28.0

STANDARD SIGN
R3-8X

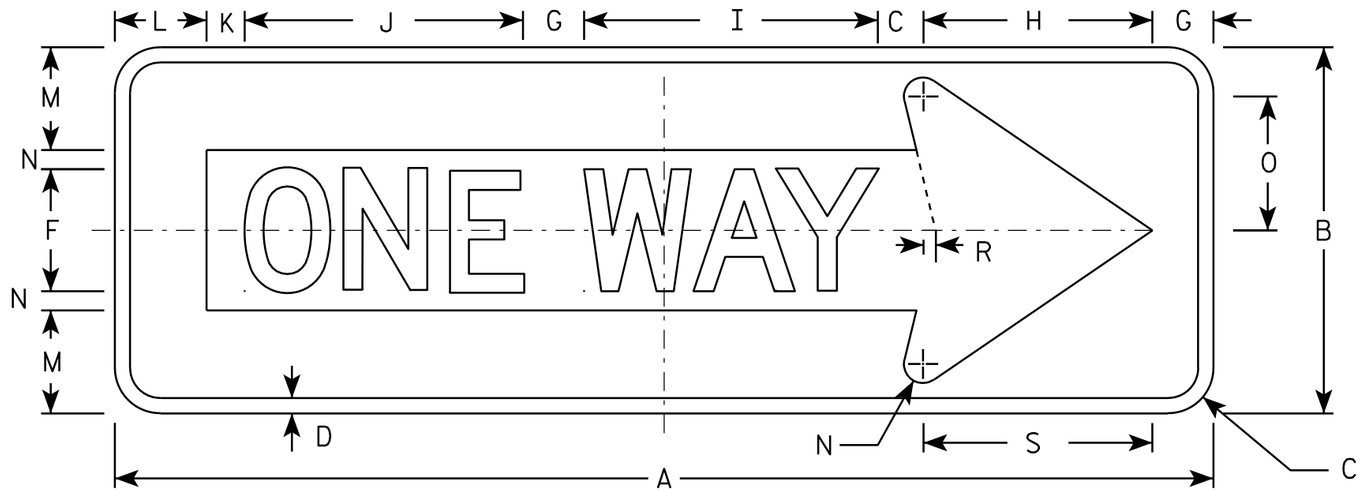
WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 03/25/13 PLATE NO. R3-8X.3

PROJECT NO:

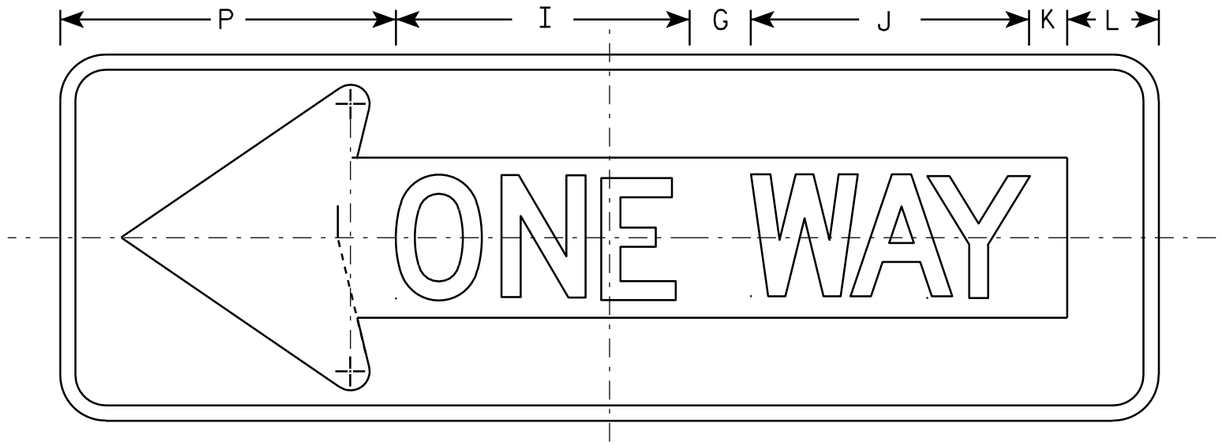
SHEET NO: 318 E



R6-1R

NOTES

1. Sign is Type II - Type H Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - BLACK
   Message - BLACK LEGEND & WHITE ARROW & BORDER
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.



R6-1L

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	36	12	1 ½	½		4	2	7 ½	9 ⅝	9 ⅛	1 ¼	3	3 ⅜	⅝	4 ⅜	11		⅜	7 ½								3.0
2M	54	18	2 ¼	¾		6	3	11 ¼	14 ½	13 ⅝	1 ⅞	4 ½	5	1	6 ½	16 ½		⅝	11 ¼								6.75
3	54	18	2 ¼	¾		6	3	11 ¼	14 ½	13 ⅝	1 ⅞	4 ½	5	1	6 ½	16 ½		⅝	11 ¼								6.75
4	54	18	2 ¼	¾		6	3	11 ¼	14 ½	13 ⅝	1 ⅞	4 ½	5	1	6 ½	16 ½		⅝	11 ¼								6.75
5																											

STANDARD SIGN
R6-1 L & R

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

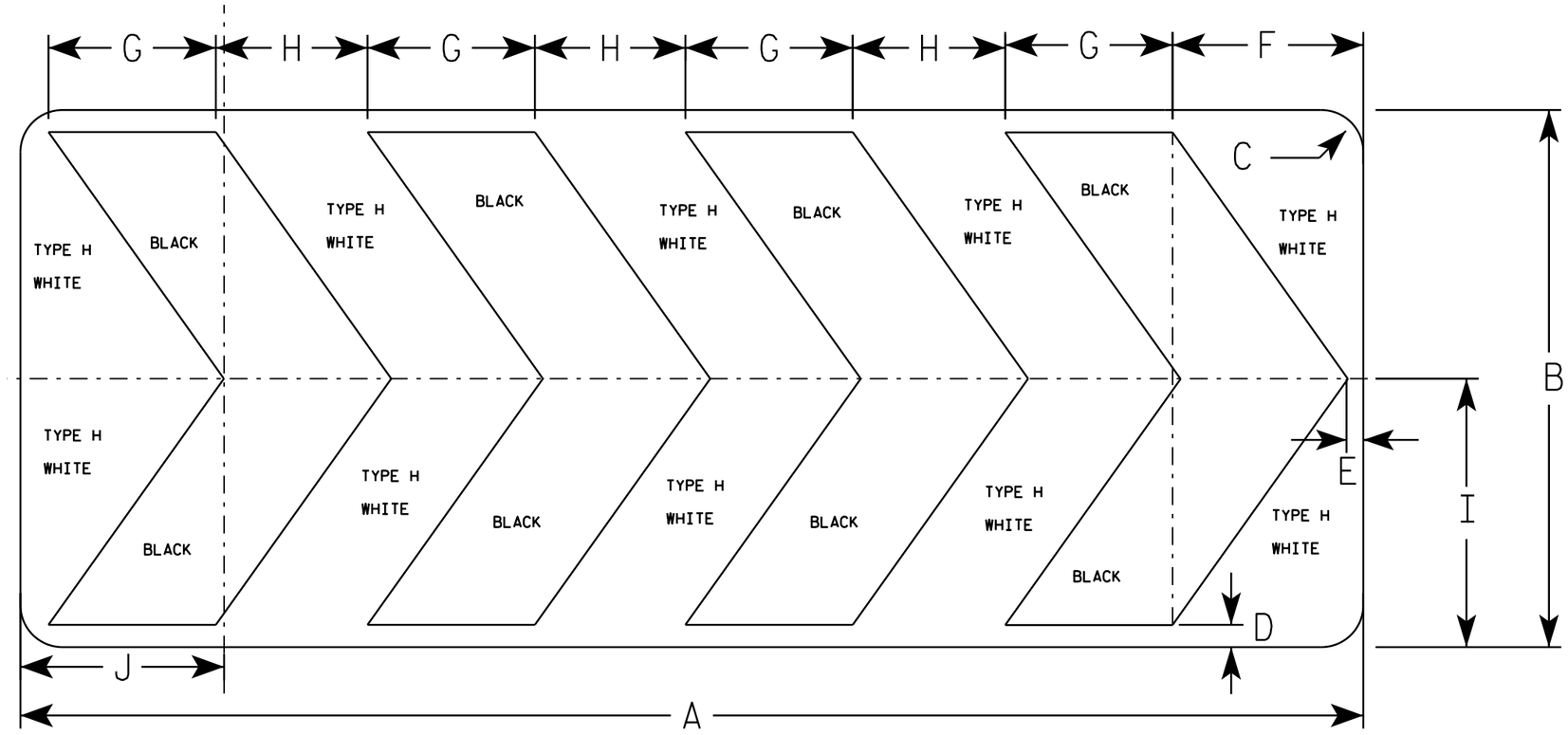
DATE 12/17/10 PLATE NO. R6-1.2

PROJECT NO:

SHEET NO: 319 E

NOTES

1. Sign is Type II - Type H Reflective
2. Color:
   Background - WHITE
   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.



R6-4B

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	60	24	1 7/8	1	3/4	8 1/2	7 1/2	6 3/4	12	9 1/8																	10.0
2M	60	24	1 7/8	1	3/4	8 1/2	7 1/2	6 3/4	12	9 1/8																	10.0
3																											
4																											
5																											

STANDARD SIGN
R6-4B

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 8/21/14 PLATE NO. R6-4.3

PROJECT NO: SHEET NO: E

FILE NAME : C:\CAEFiles\Projects\tr_stdplate\R64B.DGN PLOT DATE : 21-AUG-2014 15:01 PLOT BY : mscsja

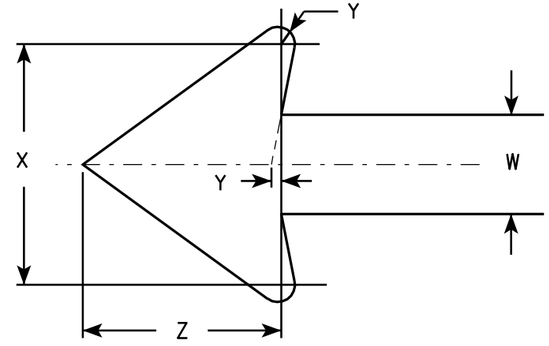
WISDOT/CADDS SHEET 42



R7-51

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 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. R7-51D (double arrow)
   R7-51R (right arrow)
   R7-51L (left arrow)
6. Lines 1, 3 and 4 are Series C.
   Line 2 is Series B.



ARROW DETAIL

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	O	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
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	4 7/8	5/8	1 3/4	2 1/2	4 3/8	3 7/8	3/4	1 3/4	1/8	1 1/2	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	5 3/4	1 1/8	1 1/2	3 1/8	5 1/2	5 7/8	1 1/8	2 5/8	1/4	2 1/4	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	7 1/8	1 1/4	2	3 3/4	6 1/2	7 3/4	1 1/2	3 1/2	1/4	3	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	7 1/8	1 1/4	2	3 3/4	6 1/2	7 3/4	1 1/2	3 1/2	1/4	3	5.0
4																											
5																											

STANDARD SIGN
R7-51

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 3/31/2011 PLATE NO. R7-51.6

PROJECT NO:	HWY:	COUNTY:			SHEET NO: 321	E



R9-9

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 - 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																											
2S	30	18	1 3/4	1/2	1/2	4	3 1/2	3	10 3/4	8 1/8																	3.75
2M	30	18	1 3/4	1/2	1/2	4	3 1/2	3	10 3/4	8 1/8																	3.75
3																											
4																											
5																											

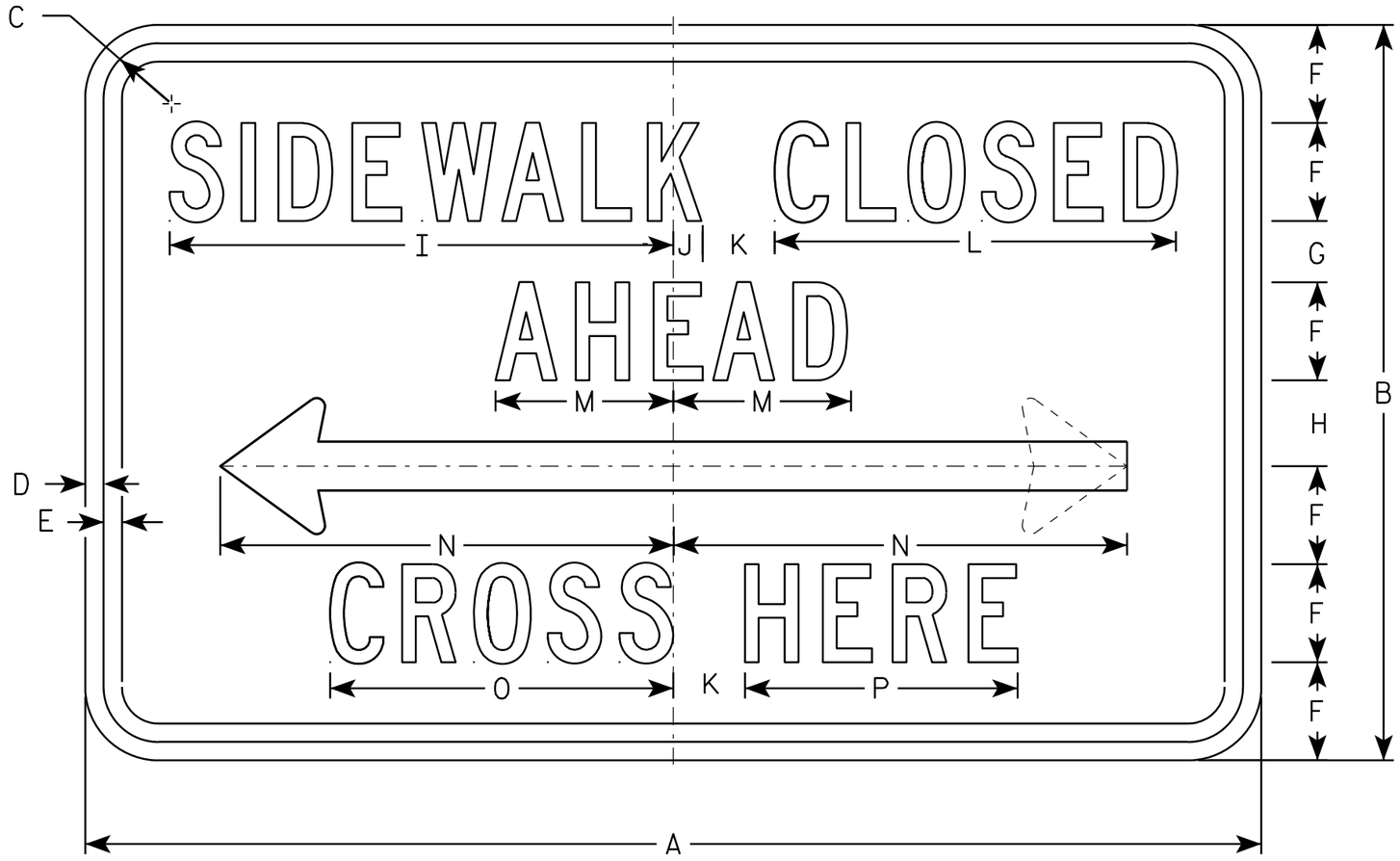
STANDARD SIGN
R9-9

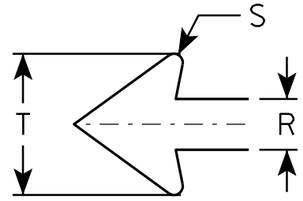
WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 4/1/2011 PLATE NO. R9-9.5

PROJECT NO:	HWY:	COUNTY:		SHEET NO: 322	E





R9-11

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 - C except Size 1 is 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	24	12	1 1/8	3/8	3/8	1 1/2	1 1/2	1 1/2	9 3/4	5/8	1 1/2	7 5/8	3 1/2	9 1/4	6 5/8	5 1/8		1	1/8	2 3/4							2.0
2S	48	30	2 3/4	3/4	3/4	4	2 1/2	3 1/2	20 1/2	1 1/4	3	16 3/8	7 1/4	18 1/2	14	11 1/8		2	3/8	5 1/2							10.0
2M	48	30	2 3/4	3/4	3/4	4	2 1/2	3 1/2	20 1/2	1 1/4	3	16 3/8	7 1/4	18 1/2	14	11 1/8		2	3/8	5 1/2							10.0
3																											
4																											
5																											

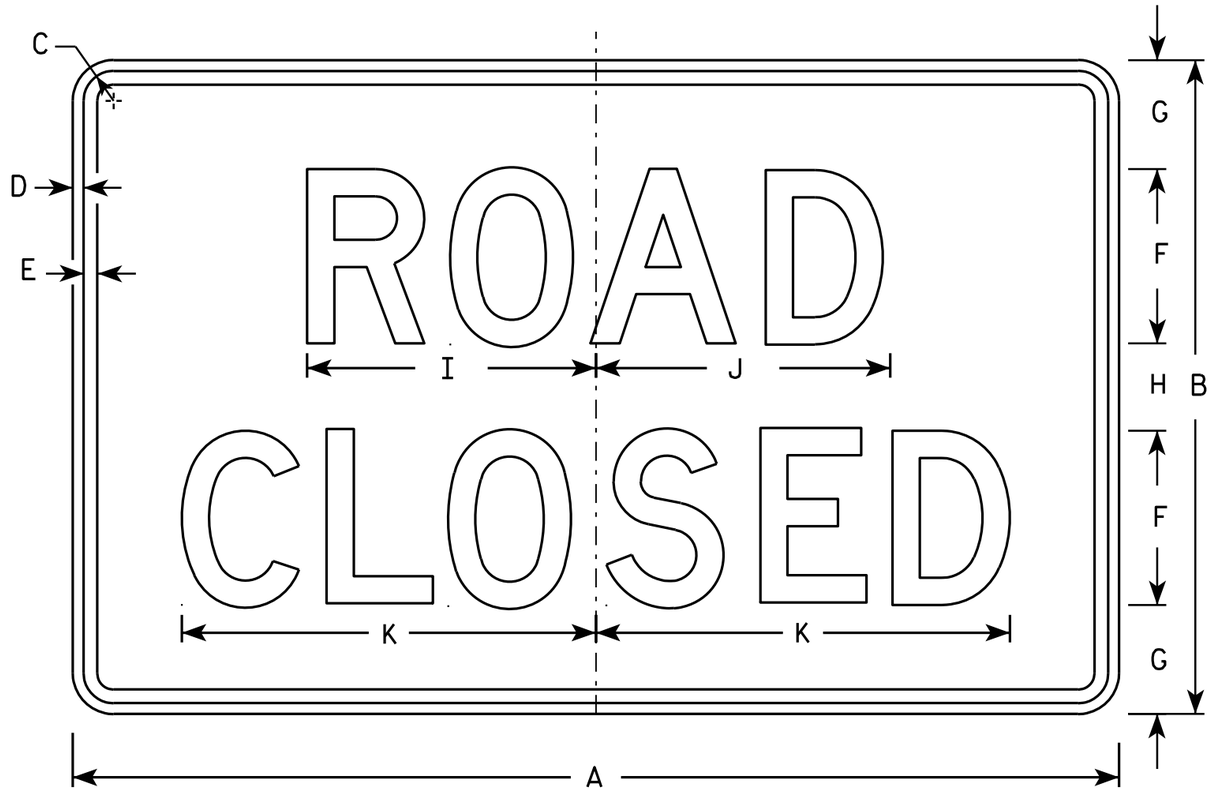
STANDARD SIGN
R9-11

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 8/17/2012 PLATE NO. R9-11.2

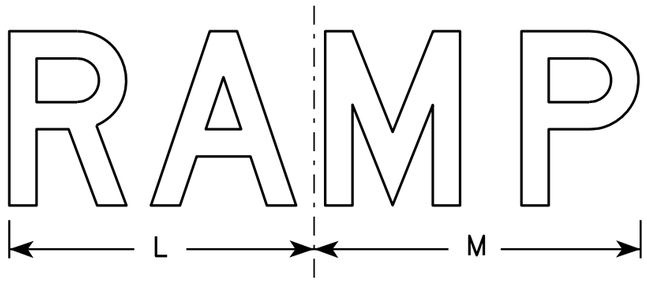
PROJECT NO:	HWY:	COUNTY:		SHEET NO: 323	E



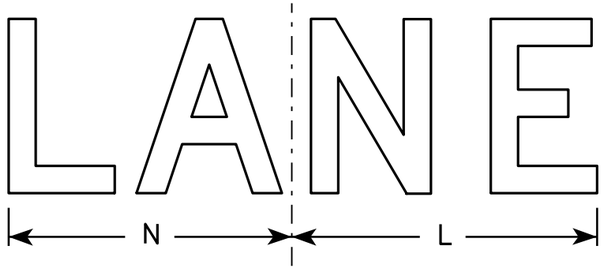
R11-2

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

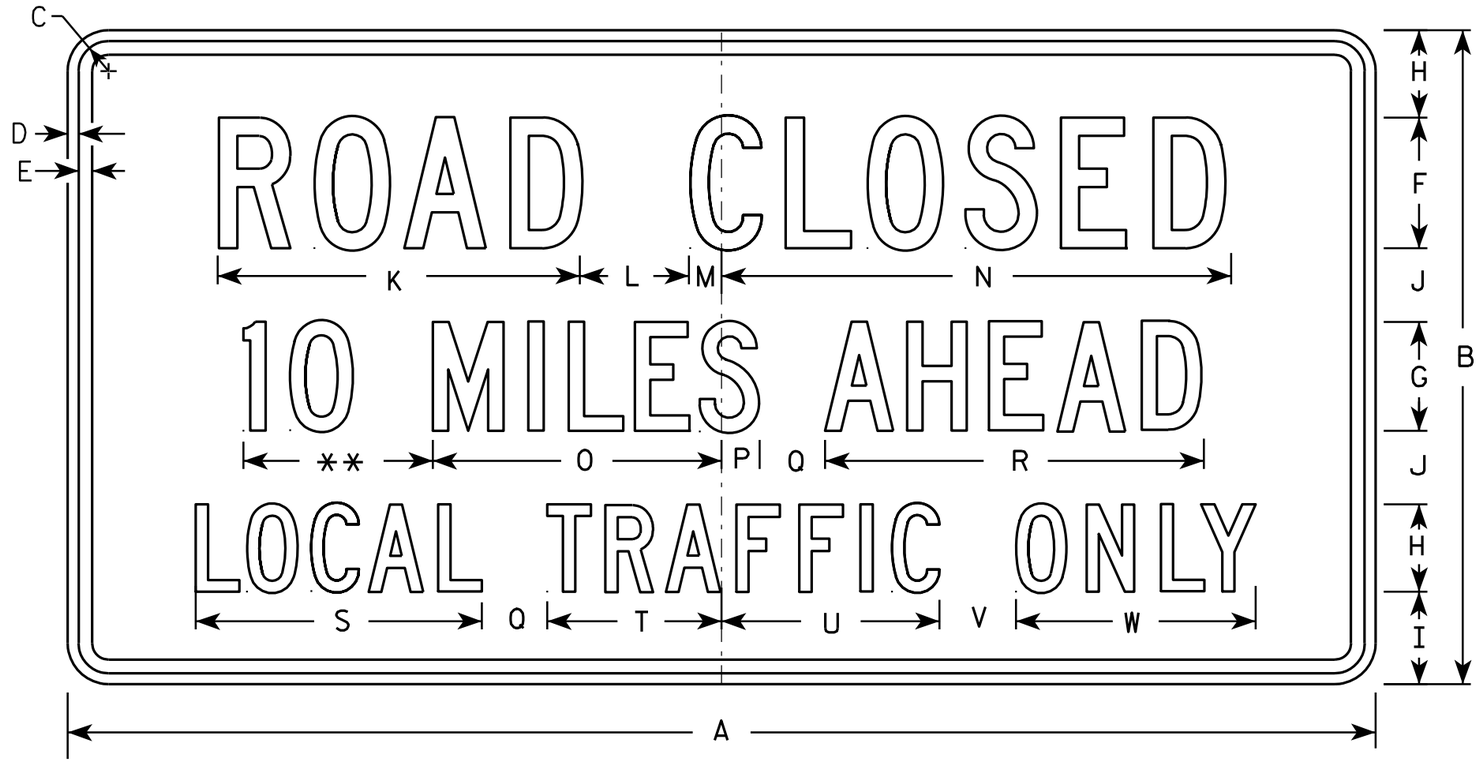
STANDARD SIGN
R11-2

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: 324	E



R11-3

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 - 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. Substitute appropriate numerals and optically adjust spacing to achieve proper balance.

** See Note 5

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1	36	18	1 3/8	1/2	5/8	4	3	2 1/2	2	2	11 1/8	3	1 1/8	15 1/4	8	1 1/2	2	10 3/4	8 3/8	4 3/4	6 1/2	2	6 3/4				4.5
2S	60	30	1 3/8	1/2	5/8	6	5	4	4 1/4	3 3/8	16 5/8	5	1 1/2	23	13 1/4	1 3/4	3	17 3/8	13 1/8	8	10	3 1/2	11				12.5
2M	60	30	1 3/8	1/2	5/8	6	5	4	4 1/4	3 3/8	16 5/8	5	1 1/2	23	13 1/4	1 3/4	3	17 3/8	13 1/8	8	10	3 1/2	11				12.5
3																											
4																											
5																											

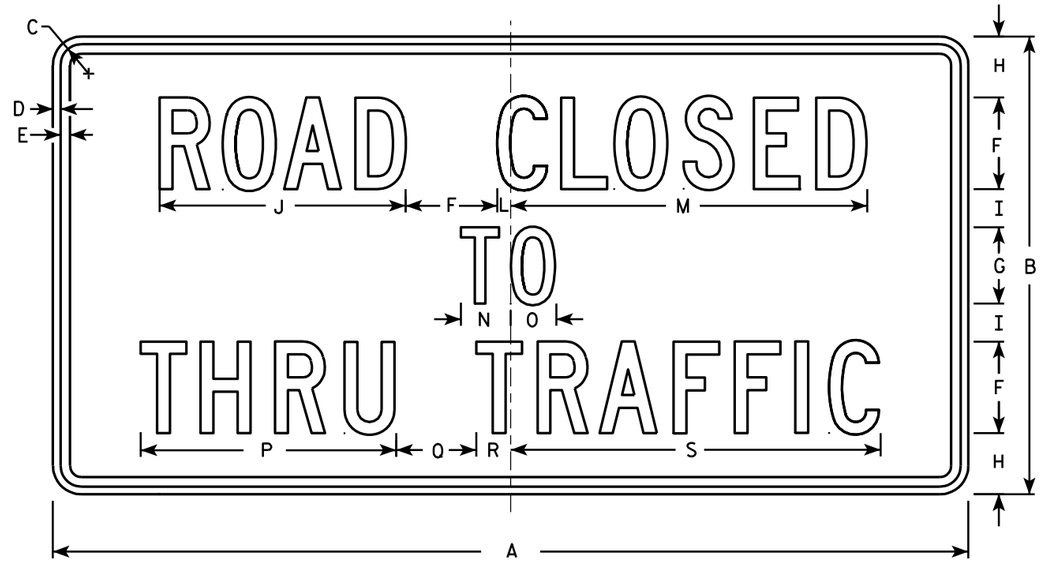
STANDARD SIGN
R11-3

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 4/1/11 PLATE NO. R11-3.6

PROJECT NO: | HWY: | COUNTY: | SHEET NO: 325 | E



R11-4

NOTES

1. Sign is Type II - Type H Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - White
   Message - 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																											
2S	60	30	1 3/8	1/2	5/8	6	5	4	2 1/2	16 1/8		7/8	23 3/8	3 1/4	3	16 3/4	5 1/4	2 1/4	24 1/4								12.5
2M	60	30	1 3/8	1/2	5/8	6	5	4	2 1/2	16 1/8		7/8	23 3/8	3 1/4	3	16 3/4	5 1/4	2 1/4	24 1/4								12.5
3																											
4																											
5																											

STANDARD SIGN
R11 - 4

WISCONSIN DEPT OF TRANSPORTATION

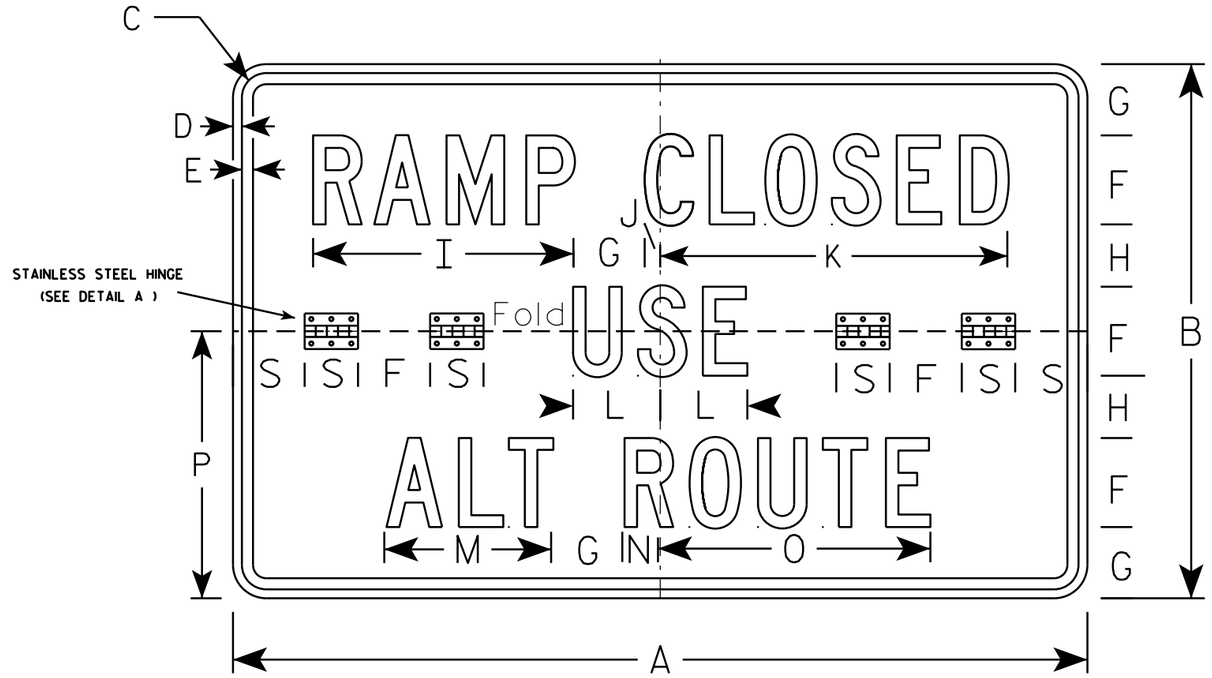
APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 4/1/11 PLATE NO. R11-4.3

PROJECT NO: | HWY: | COUNTY: | SHEET NO: 326 | E

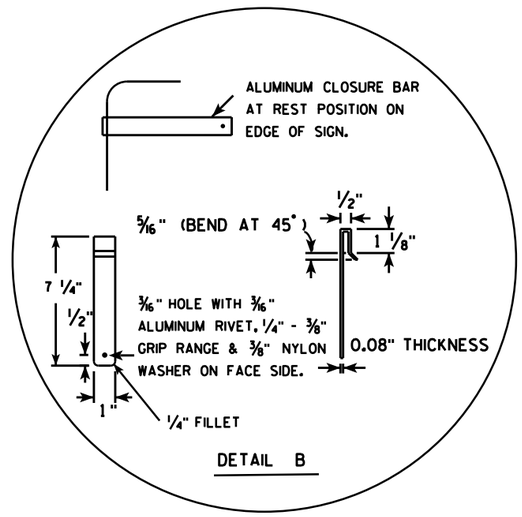
7

FILE NAME : C:\Users\PROJECTS\tr_stdplate\R114.DGN PLOT DATE : 01-APR-2011 14:11 PLOT BY : mscj9h PLOT NAME : PLOT SCALE : 9.931739:1.000000
WISDOT/CADDS SHEET 42



R11-54F

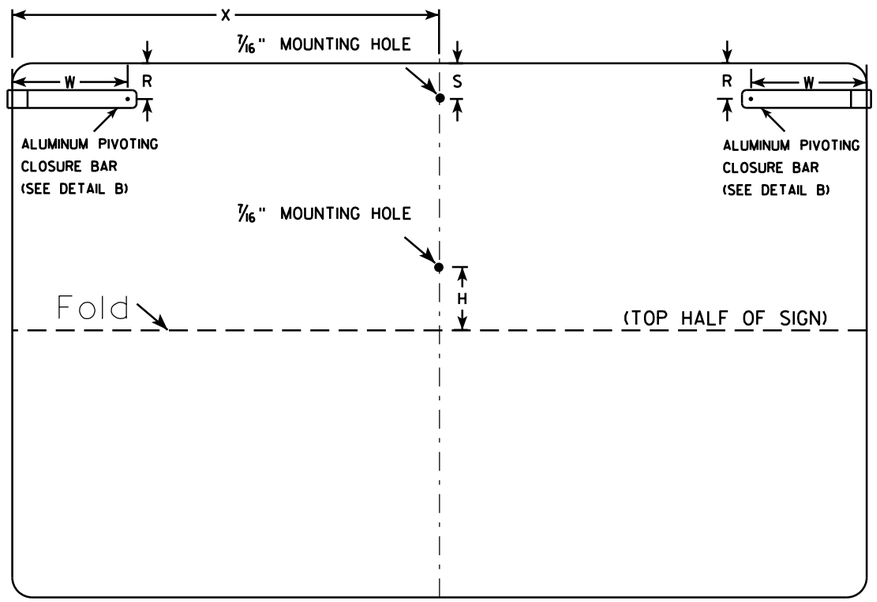
DETAIL A



DETAIL B

NOTES

1. Sign is Type II - Type H Reflective
2. Color:
   Background - WHITE
   Message - BLACK
3. Message Series - C
4. Sign Base Material shall be aluminum, corners and borders shall be rounded.
5. All hardware used on the folding sign installation shall conform to 637.2.4 of the WIS DOT Standard Specification.
6. Refer to plate A5-3A for sign blank layout.



(BACK VIEW)

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	5	4	3 1/2	14 5/8	7/8	19 1/2	4 7/8	9 3/8	2	15 1/4	15		2	3	2 5/8	1 1/4	11/16	6 1/2	24			10.0
2M	48	30	1 3/8	1/2	5/8	5	4	3 1/2	14 5/8	7/8	19 1/2	4 7/8	9 3/8	2	15 1/4	15		2	3	2 5/8	1 1/4	11/16	6 1/2	24			10.0
3																											
4																											
5																											

STANDARD SIGN
R11-54F

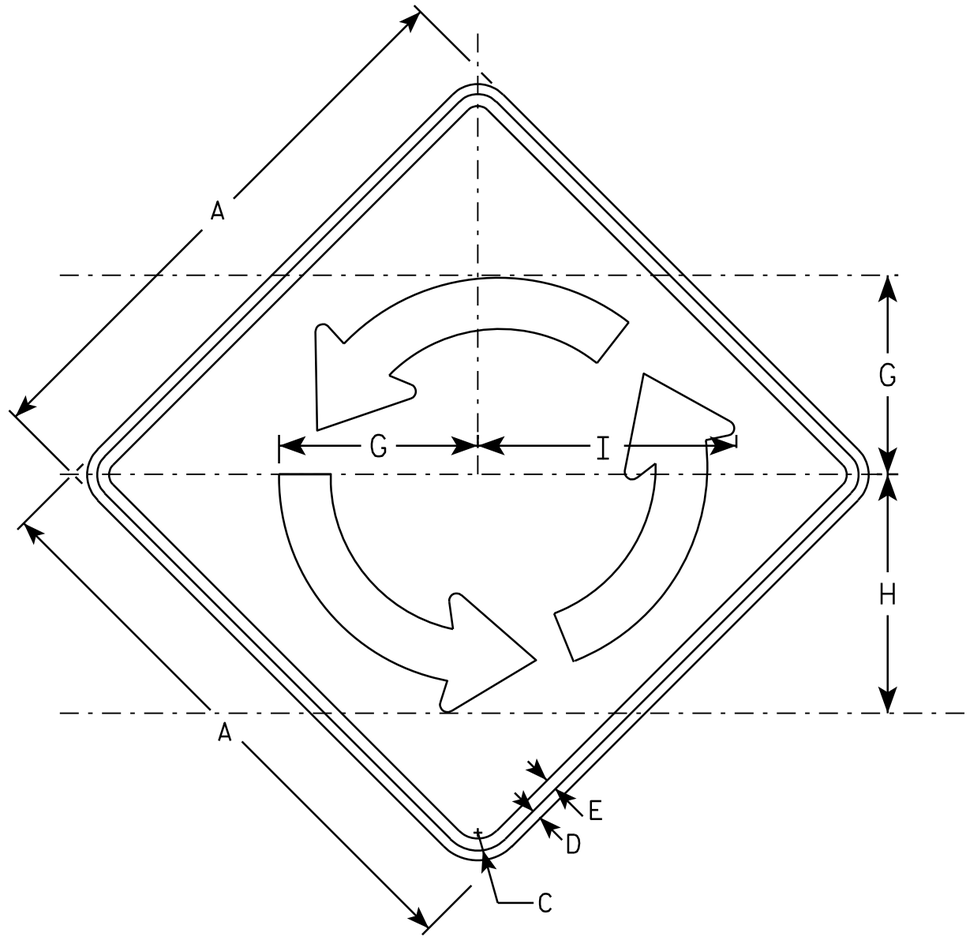
WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 5/28/14 PLATE NO. R11-54F.3

PROJECT NO:	HWY:	COUNTY:		SHEET NO:	E

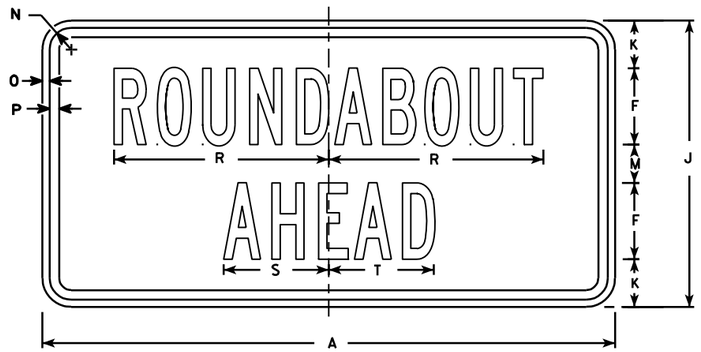
FILE NAME : C:\CAEFiles\Projects\tr_stdplate\R1154F.DGN PLOT DATE : 28-MAY-2014 14:15 PLOT BY : mscsja PLOT NAME : PLOT SCALE : 8.511110:1.000000
WISDOT/CADDS SHEET 42



W2-6

NOTES

1. Sign is Type II - Type F Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - YELLOW
   Message - BLACK
3. Message Series - B
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.



W2-6P

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	W2-6 Area sq. ft.	W2-6P Area sq. ft.
1																										
2S	30		1 3/8	1/2	5/8	4	10 3/8	12 1/2	13 1/2	15	2 1/2		2	1 1/8	3/8	1/2		11 1/4	5 1/2	5 1/2					6.25	3.12
2M	30		1 3/8	1/2	5/8	4	10 3/8	12 1/2	13 1/2	15	2 1/2		2	1 1/8	3/8	1/2		11 1/4	5 1/2	5 1/2					6.25	3.12
3	36		1 5/8	5/8	3/4	5	12 1/2	15	16 1/4	18	2 5/8		2 3/4	1 1/8	3/8	1/2		14	7	6 3/4					9.00	4.50
4	48		2 1/4	3/4	1	6	16 5/8	20	16 1/4	24	4 3/8		3 5/8	1 3/8	1/2	5/8		17	8 1/4	8 1/4					16.0	8.0
5																										

STANDARD SIGN
W2-6

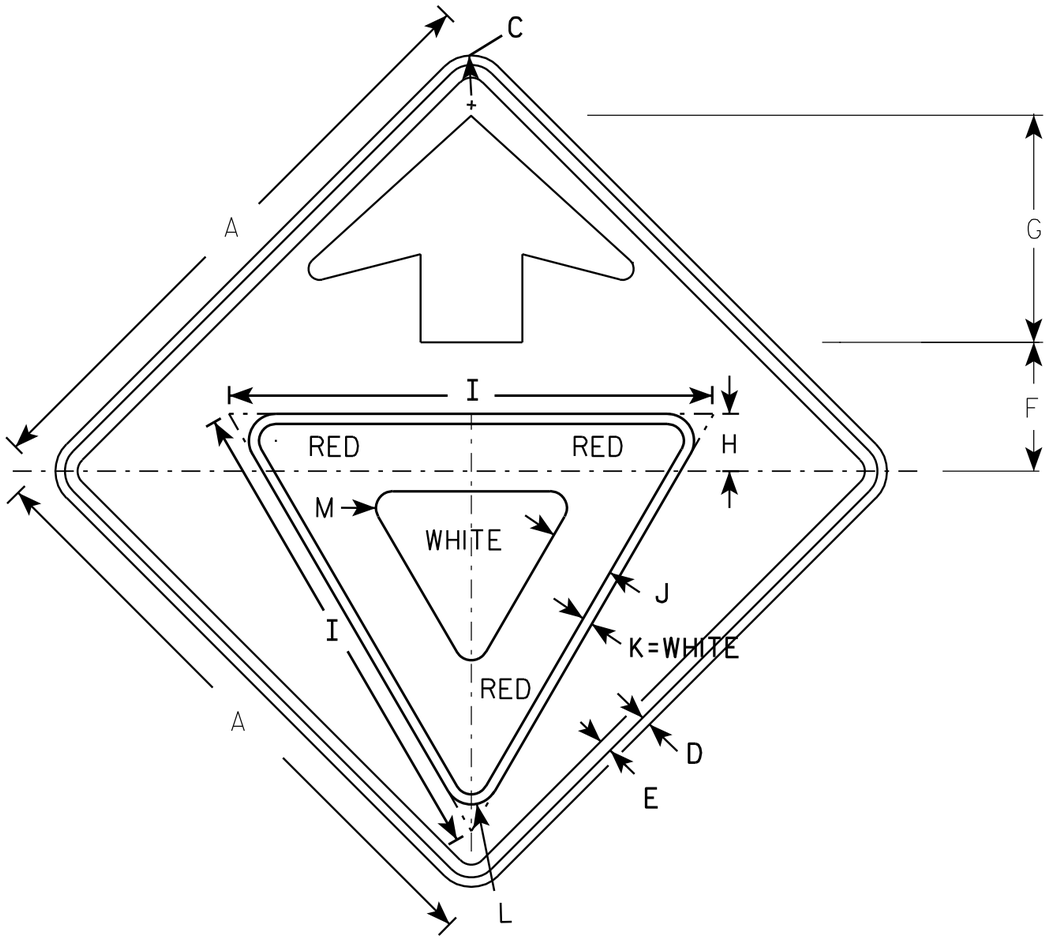
WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 6/29/12 PLATE NO. W2-6.5

PROJECT NO:

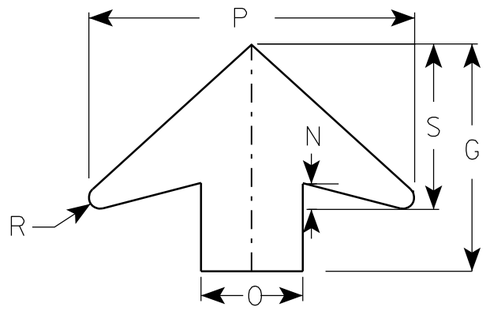
SHEET NO: 328 E



W3-2

NOTES

1. All Signs Type II - Type F Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - YELLOW
   Arrow & Border - BLACK
   Yield Symbol - WHITE BORDER ON RED 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	30		1 3/8	1/2	5/8	6 1/4	11 1/4	3	25	3 3/8	1/2	1 3/8	7/8	1 1/4	5	16		1/2	8								6.25
2S	36		1 5/8	5/8	3/4	7 1/2	13 1/2	3 3/8	28	3 3/4	5/8	1 1/2	1	1 5/8	6	19 1/4		5/8	9 3/4								9.0
2M	36		1 5/8	5/8	3/4	7 1/2	13 1/2	3 3/8	28	3 3/4	5/8	1 1/2	1	1 5/8	6	19 1/4		5/8	9 3/4								9.0
3	36		1 5/8	5/8	3/4	7 1/2	13 1/2	3 3/8	28	3 3/4	5/8	1 1/2	1	1 5/8	6	19 1/4		5/8	9 3/4								9.0
4	48		2 1/4	3/4	1	10	17 7/8	4 1/2	38	5	3/4	2 1/8	1 3/8	2	8	25 5/8		7/8	13								16.0
5	48		2 1/4	3/4	1	10	17 7/8	4 1/2	38	5	3/4	2 1/8	1 3/8	2	8	25 5/8		7/8	13								16.0

STANDARD SIGN
W3-2

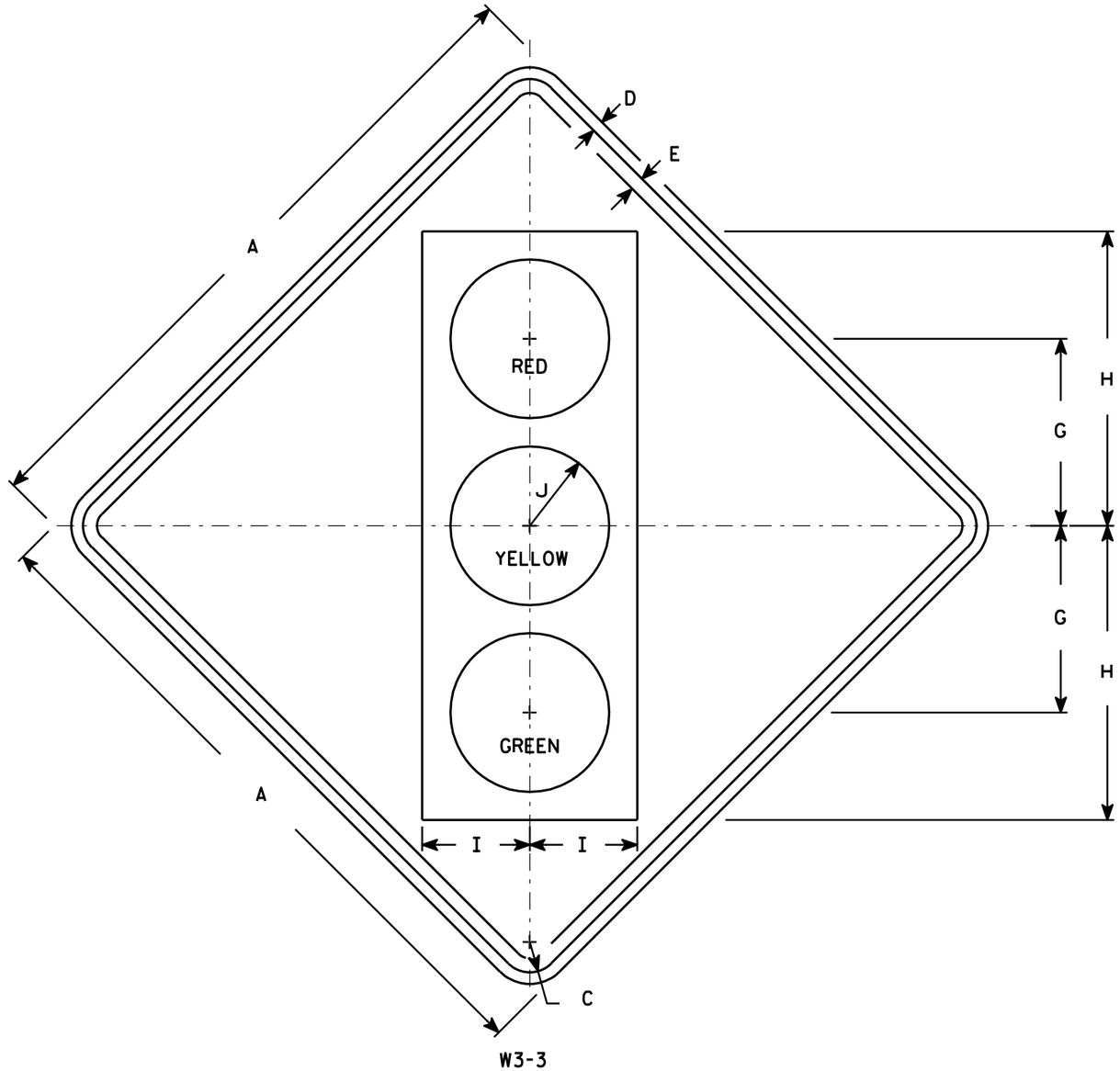
WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 6/7/10 PLATE NO. W3-2..9

PROJECT NO:

SHEET NO: 329 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 - Yellow
   Message - See Note 4
3. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.
4. Symbol and border are non-reflective black.
   Top circle - Type H Reflectorized Red
   Center circle - Same as background
   Bottom circle - Type H Reflectorized Green

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		8 3/4	13 3/4	5	3 3/4																	6.25
2S	36		1 5/8	5/8	3/4		10	15 3/4	5 3/4	4 1/4																	9.0
2M	36		1 5/8	5/8	3/4		10	15 3/4	5 3/4	4 1/4																	9.0
3	36		1 5/8	5/8	3/4		10	15 3/4	5 3/4	4 1/4																	9.0
4	48		2 1/4	3/4	1		12 1/2	20	7 1/2	5																	16.0
5	48		2 1/4	3/4	1		12 1/2	20	7 1/2	5																	16.0

STANDARD SIGN
W3-3

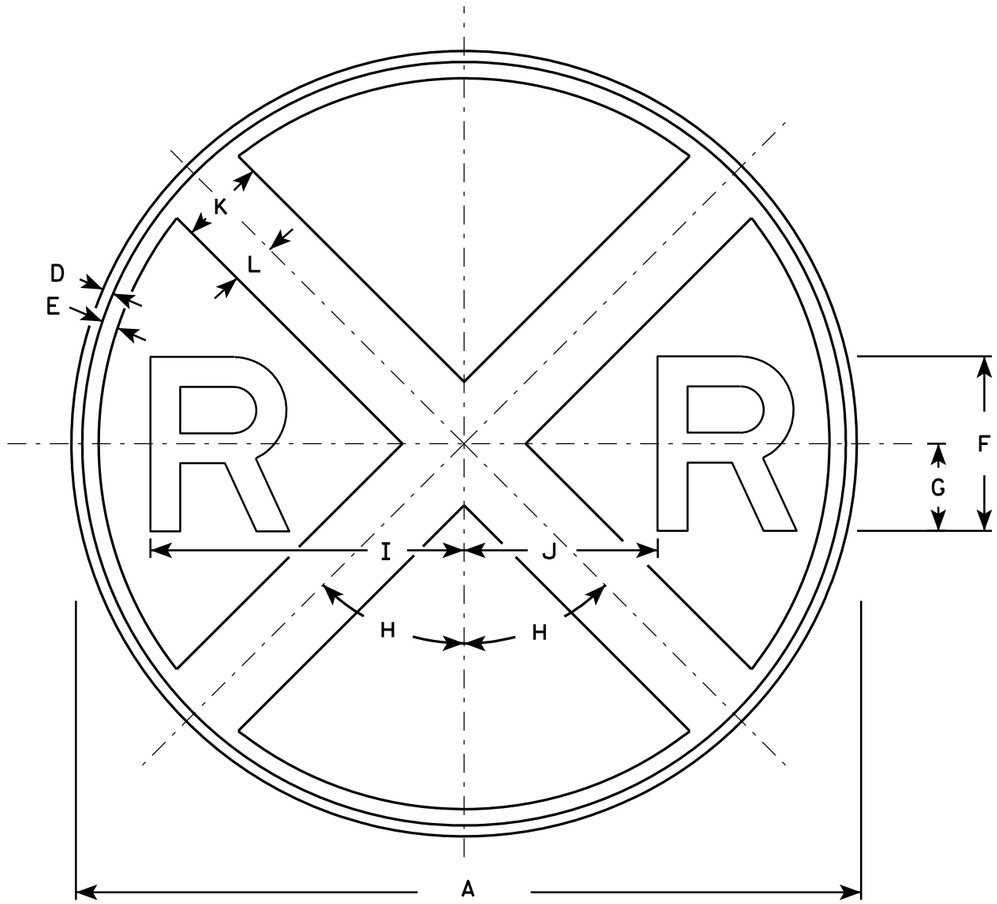
WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch for State Traffic Engineer

DATE 6/7/10 PLATE NO. W3-3.11

PROJECT NO: | HWY: | COUNTY: | SHEET NO: 330 | E

FILE NAME : C:\Users\PROJECTS\tr_stdplate\W33.DGN PLOT DATE : 07-JUN-2010 13:07 PLOT BY : ditjph PLOT NAME : PLOT SCALE : 7.448805:1.000000
WISDOT/CADDS SHEET 42



W10-1

NOTES

1. Sign is Type II - Type F Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - Yellow
   Message - Black
3. Message 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	30			3/8	5/8	7	3 1/2	45°	12 3/8	7 1/8	3	1 1/2															4.91
2S	36			5/8	3/4	8	4	45°	14 3/8	8 5/8	4	2															7.07
2M	36			5/8	3/4	8	4	45°	14 3/8	8 5/8	4	2															7.07
3																											
4	48			3/4	1 1/4	10	5	45°	18 3/8	11 5/8	5	2 1/2															12.57
5																											

STANDARD SIGN
W10-1

WISCONSIN DEPT OF TRANSPORTATION

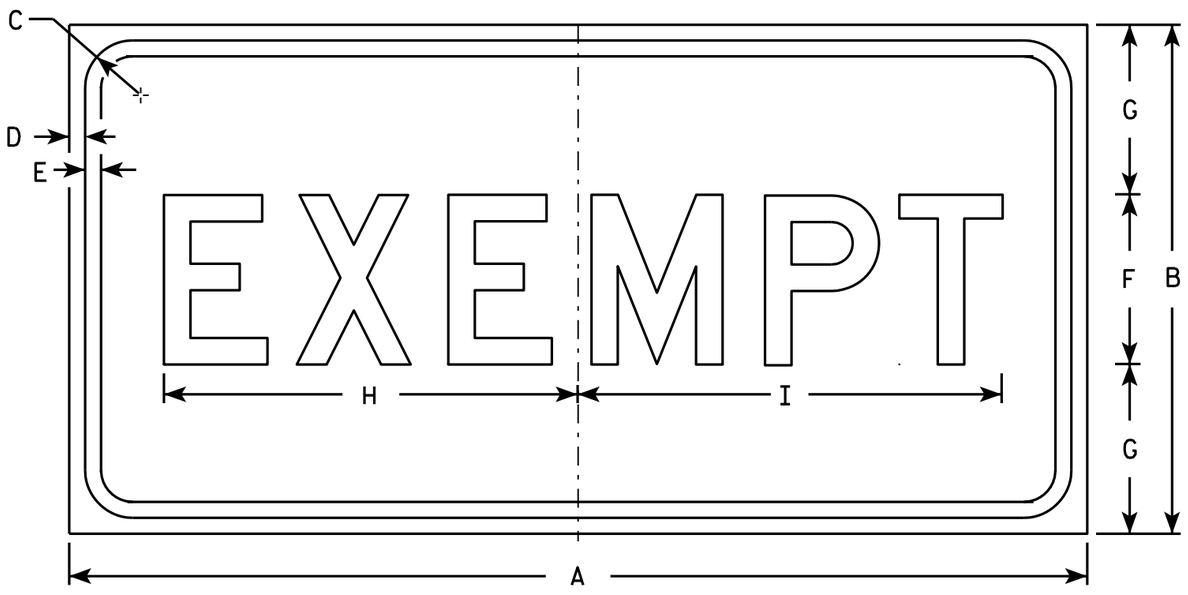
APPROVED Matthew R Rauch for State Traffic Engineer

DATE 3/13/13 PLATE NO. W10-1.8

PROJECT NO:	HWY:	COUNTY:		SHEET NO: 331	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 - See Note 5
   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. Background - R15-3 is White Type H Reflective
   W10-1A is Yellow.



R15-3
and
W10-1A

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	24	12	1 1/8	3/8	3/8	4	4	9 3/4	10																		2
2M	24	12	1 1/8	3/8	3/8	4	4	9 3/4	10																		2
3																											
4																											
5																											

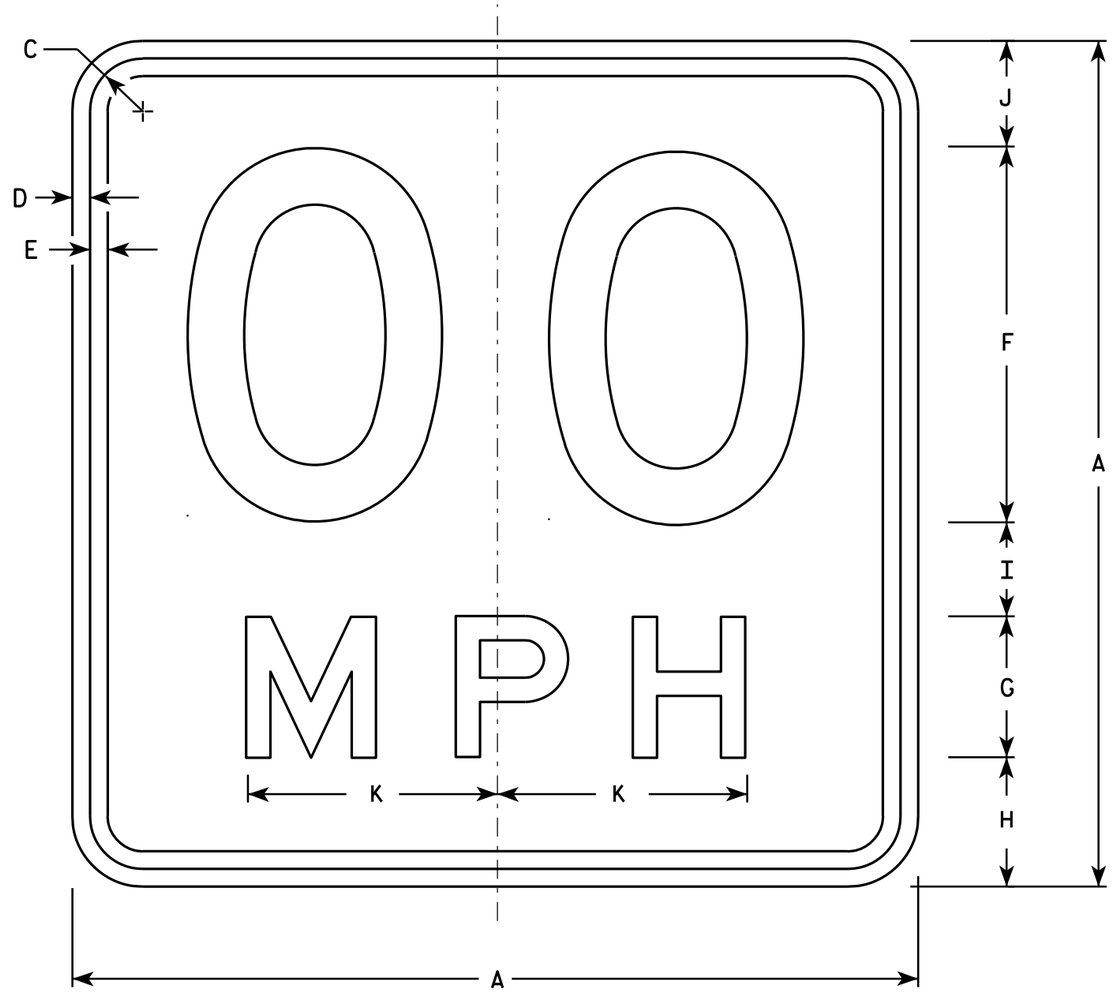
STANDARD SIGN
R15-3 & W10-1A

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 3/13/13 PLATE NO. R15-3.7

PROJECT NO:	HWY:	COUNTY:		SHEET NO: 332	E



W13-1

* For 30" x 30" Warning Signs, use 18" x 18" W13-1 signs.
For 36" x 36" Warning Signs, use 24" x 24" W13-1 signs.

NOTES

1. Sign is Type II - Type F Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
   Background - Yellow
   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	18		1 1/8	3/8	3/8	8	3	2 3/4	2	2 1/4	5 3/8																2.25
*	2S	18		1 1/8	3/8	3/8	8	3	2 3/4	2	2 1/4	5 3/8																2.25
*	2M	18		1 1/8	3/8	3/8	8	3	2 3/4	2	2 1/4	5 3/8																2.25
	3	24		1 1/8	3/8	1/2	10	4	4	2 3/4	3 1/4	6 5/8																4.00
	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

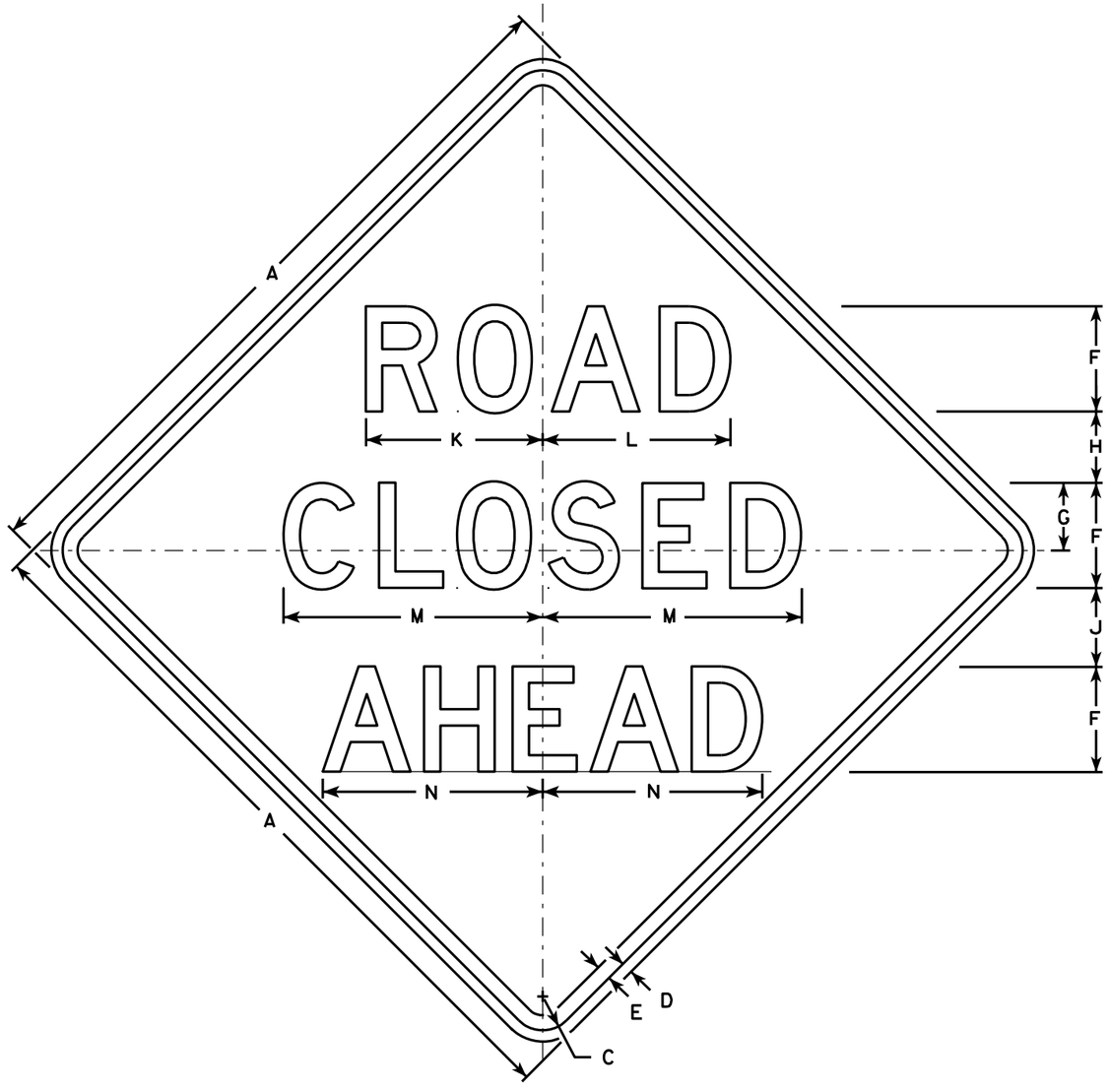
STANDARD SIGN
W13-1

WISCONSIN DEPT OF TRANSPORTATION

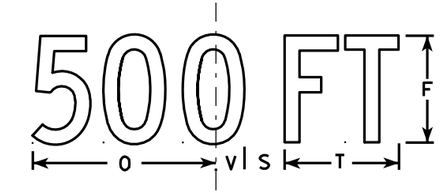
APPROVED Matthew R Rauch
For State Traffic Engineer

DATE 5/31/12 PLATE NO. W13-1.16

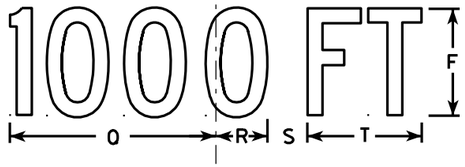
PROJECT NO: | HWY: | COUNTY: | SHEET NO: 333 | E



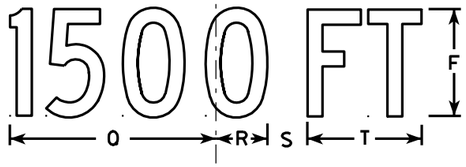
W20-3A



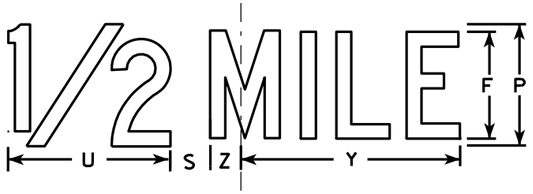
W20-3D



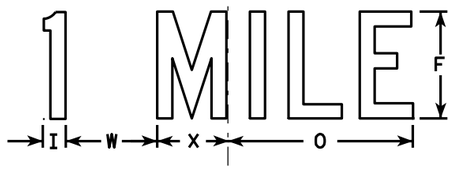
W20-3C



W20-3B



W20-3G



W20-3F

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. Lines 1 and 2 are Series D.
   Line 3 is Series D for AHEAD and Series C for all other distances.

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	5	3 3/8	3 1/2	1 1/8	4	8 3/8	8 7/8	12 1/2	11	9	6	10 1/8	2 1/2	1 7/8	5 5/8	8	1 3/8	4 1/2	3 1/2	10 3/4	1 3/4	9.0
2S	48		2 1/4	3/4	1	7	4 1/2	4 3/4	1 1/2	5 1/4	11 3/4	12 1/2	17 1/4	14 5/8	12	8	13 1/2	3 3/8	2 5/8	7 1/2	10 5/8	1 7/8	6	4 5/8	14 3/8	2 3/8	16.0
2M	48		2 1/4	3/4	1	7	4 1/2	4 3/4	1 1/2	5 1/4	11 3/4	12 1/2	17 1/4	14 5/8	12	8	13 1/2	3 3/8	2 5/8	7 1/2	10 5/8	1 7/8	6	4 5/8	14 3/8	2 3/8	16.0
3	48		2 1/4	3/4	1	7	4 1/2	4 3/4	1 1/2	5 1/4	11 3/4	12 1/2	17 1/4	14 5/8	12	8	13 1/2	3 3/8	2 5/8	7 1/2	10 5/8	1 7/8	6	4 5/8	14 3/8	2 3/8	16.0
4	48		2 1/4	3/4	1	7	4 1/2	4 3/4	1 1/2	5 1/4	11 3/4	12 1/2	17 1/4	14 5/8	12	8	13 1/2	3 3/8	2 5/8	7 1/2	10 5/8	1 7/8	6	4 5/8	14 3/8	2 3/8	16.0
5	48		2 1/4	3/4	1	7	4 1/2	4 3/4	1 1/2	5 1/4	11 3/4	12 1/2	17 1/4	14 5/8	12	8	13 1/2	3 3/8	2 5/8	7 1/2	10 5/8	1 7/8	6	4 5/8	14 3/8	2 3/8	16.0

STANDARD SIGN
W20-3A, B, C, D, F & G

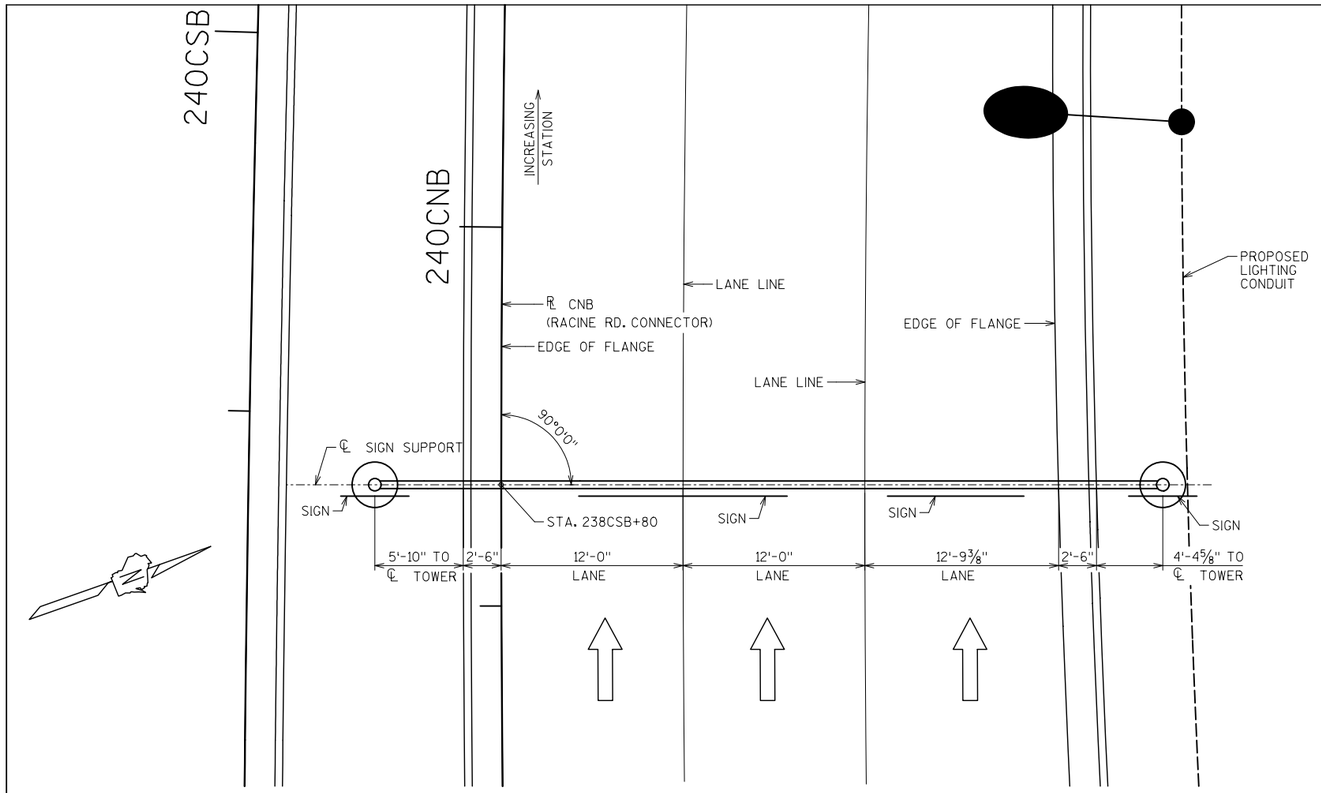
WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer
DATE 3/18/11 PLATE NO. W20-3.7

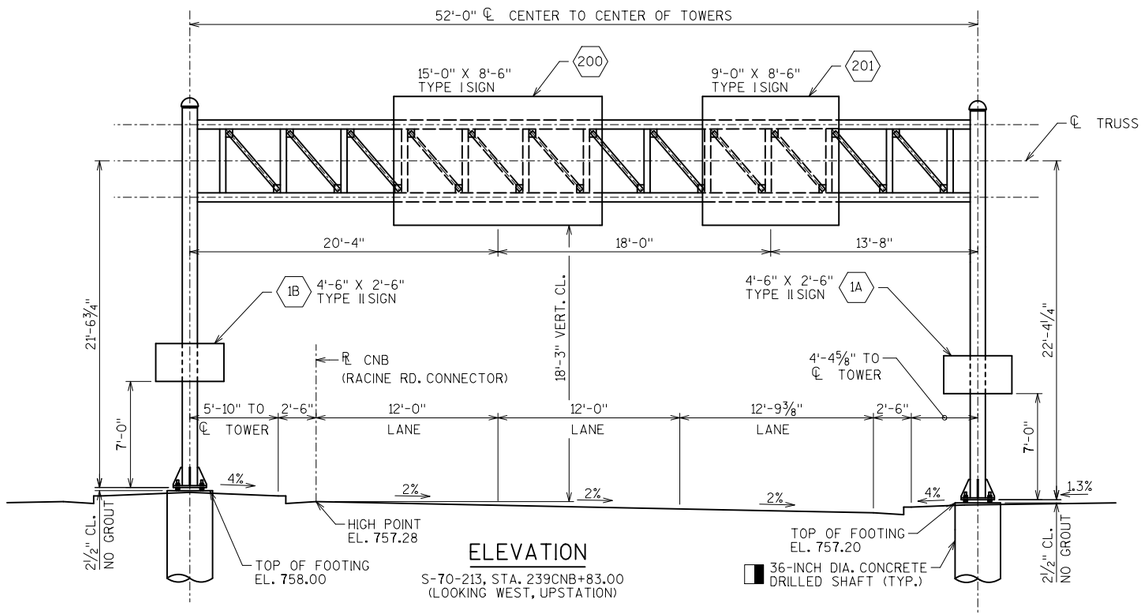
PROJECT NO: | HWY: | COUNTY: | SHEET NO: 334 | E

7

FILE NAME : C:\Users\PROJECTS\tr_stdplate\W203.DGN PLOT DATE : 18-MAR-2011 12:08 PLOT BY : mscj9h PLOT NAME : PLOT SCALE : 9.931739:1.000000
WISDOT/CADDS SHEET 42



PLAN



ELEVATION

S-70-213, STA. 239CNB+83.00
(LOOKING WEST, UPSTATION)

GENERAL NOTES

DRAWINGS SHALL NOT BE SCALED.

ELEVATIONS SHOWN ON THE PLAN ARE REFERENCED TO THE NATIONAL GEODETIC VERTICAL DATUM OF 1929 (NGVD29).

DIMENSIONS ARE IN FEET UNLESS OTHERWISE SHOWN OR NOTED.

OVERHEAD SIGN SUPPORTS SHALL BE DESIGNED AND FABRICATED USING STEEL.

ALL STRUCTURAL STEEL MEMBERS SHALL BE GALVANIZED.

CENTER TYPE I SIGNS VERTICALLY ON TRUSS.

HANDHOLES ARE NOT REQUIRED.

DESIGN STRUCTURE BASE PLATE CONNECTION TO ACCOMMODATE A MINIMUM OF SIX (6) ANCHOR BOLTS.

SIZE THE ANCHOR BOLT / TEMPLATE ASSEMBLY TO FIT WITHIN THE BAR CAGE OF THE FOOTING BASE SHOWN IN STANDARD DETAIL DRAWING 15C15 AND 15C24 IN ADDITION TO MEETING ALL APPLICABLE DESIGN REQUIREMENTS FOR THE DESIGN OF THE UPRIGHT BASE CONNECTION.

PROVIDE IDENTIFICATION PLAQUE FOR THE OVERHEAD SIGN SUPPORT. COST INCIDENTAL TO THE BID ITEM "OVERHEAD SIGN SUPPORT (STRUCTURE)".

DESIGN NEW OVERHEAD SIGN SUPPORTS ACCORDING TO THE LATEST EDITION OF THE STATE OF WISCONSIN "STANDARD SPECIFICATIONS FOR HIGHWAY AND STRUCTURE CONSTRUCTION" AND AASHTO "STANDARD SPECIFICATIONS FOR STRUCTURAL SUPPORTS FOR HIGHWAY SIGNS, LUMINAIRES, AND TRAFFIC SIGNALS."

DESIGN OF THE SIGN SUPPORT STRUCTURE, EXCAVATION, CONCRETE, REINFORCING STEEL, STEEL MEMBERS, BACKFILLING, AND FABRICATION SHALL BE CONSIDERED INCIDENTAL TO THE BID ITEM "OVERHEAD SIGN SUPPORT (STRUCTURE)".

SIGNS OR BLANKS SHALL BE INSTALLED ON THE OVERHEAD SIGN SUPPORT AT THE TIME OF ERECTION.

ESTIMATED QUANTITIES

BID ITEM #	BID ITEM	UNIT	TOTAL
641.8100.001	OVERHEAD SIGN SUPPORT S-70-213	LS	1

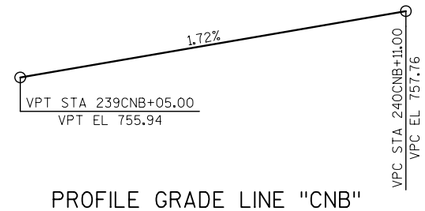
STATE PROJECT NUMBER
1517-75-76

DESIGN DATA

DESIGN SIGN AREA = 226.5 SF

SIGN DIMENSIONS

- 1A — 4'-6" X 2'-6"
- 1B — 4'-6" X 2'-6"
- 200 — 15'-0" X 8'-6"
- 201 — 9'-0" X 8'-6"



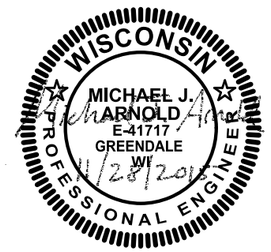
PROFILE GRADE LINE "CNB"

LEGEND

- (#) SIGN NUMBER. REFER TO THE PERMANENT SIGNING SHEETS.
- MODIFY SDD 15C15 FOR A TOTAL SHAFT LENGTH OF 20'-0" WITH 21 HOOPS AND VERTICAL REINFORCING BARS WITH LENGTH OF 19'-7".

QUANTITES PER FOOTING FOR S-70-213 ARE:

CONCRETE: 5.2 C.Y.
H.S. REINFORCEMENT: 330 LBS.



NE REGION CONTACT - SCOTT EBEL (920) 492-2240
BUREAU OF STRUCTURES CONTACT - WILLIAM DREHER (608) 266-8489
CONSULTANT CONTACT - MICHAEL ARNOLD (414) 831-4179

NO.	DATE	REVISION	BY

AECOM
342 North Water Street
7th Floor
Milwaukee, WI 53202
(414) 831-4100

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

ACCEPTED William C. Dreher SDR 02/08/16
CHIEF STRUCTURES DESIGN ENGINEER — DATE

STRUCTURES S-70-213, 214, 215, 216

CTH P (RACINE ROAD)

COUNTY	TOWN/~~CITY/VILLAGE~~
WINNEBAGO	MENASHA

DESIGN SPEC. AASHTO SIGN SPEC.			LOAD 90 MPH 3 SEC. SPEED
DESIGNED BY JDL	DESIGN CK'D. MJA	DRAWN BY JDL	PLANS CK'D. MJA

PLAN AND ELEVATION S-70-213

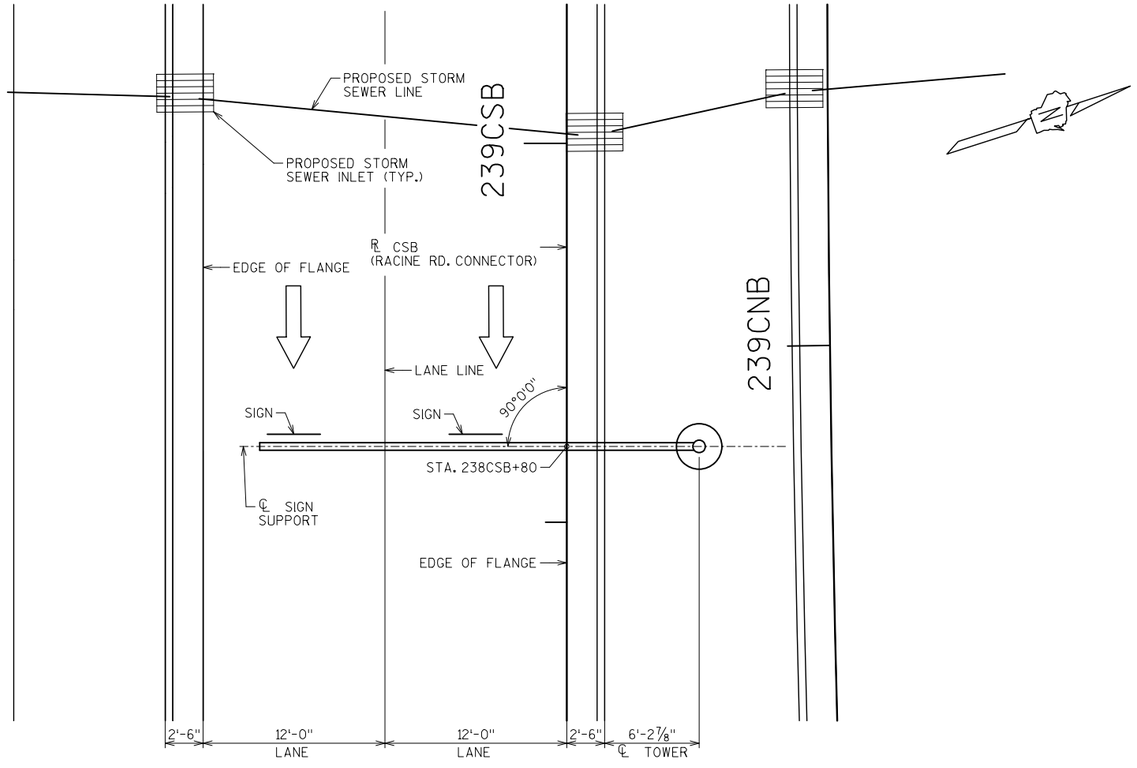
SHEET 1 OF 4
335

FILE= P:\Transportation\US 10 WIS 441\CADD\sheets\Structures\S-70-213, 214, 215, 216\Sheets\01-S-70-213_gp.dgn
DATE: 11/28/2015
I.D.

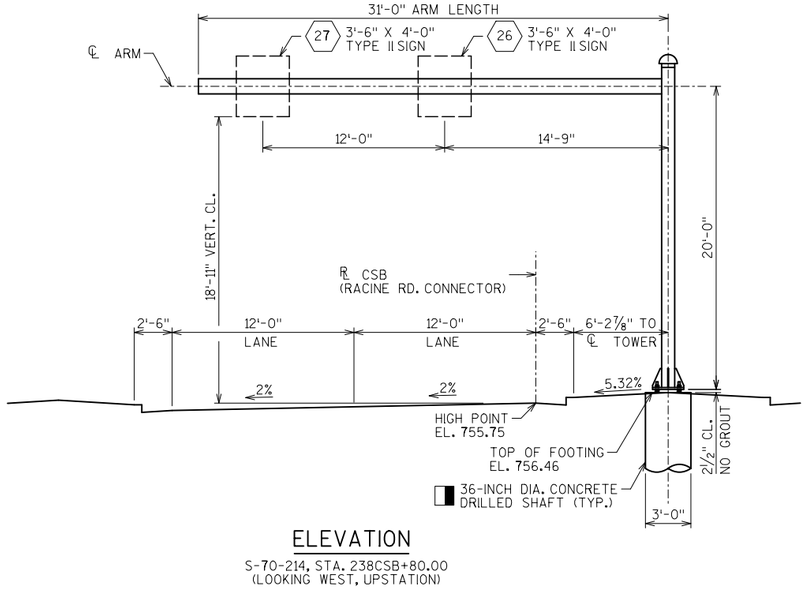
8

8

STATE PROJECT NUMBER
1517-75-76



PLAN



ELEVATION

S-70-214, STA. 238CSB+80.00
(LOOKING WEST, UPSTATION)

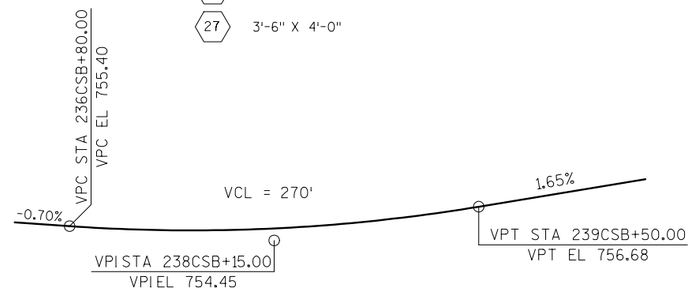
DESIGN DATA

DESIGN SIGN AREA = 28 SF

SIGN DIMENSIONS

26 3'-6" X 4'-0"

27 3'-6" X 4'-0"



PROFILE GRADE LINE "CSB"

ESTIMATED QUANTITIES

BID ITEM #	BID ITEM	UNIT	TOTAL
641.8100.002	OVERHEAD SIGN SUPPORT S-70-214	LS	1

LEGEND

(#) SIGN NUMBER. REFER TO THE PERMANENT SIGNING SHEETS.

MODIFY SDD 15C24 FOR A TOTAL SHAFT LENGTH OF 20'-0" WITH 21 HOOPS AND VERTICAL REINFORCING BARS WITH LENGTH OF 19'-7".

QUANTITES PER FOOTING FOR S-70-214 ARE:

CONCRETE: 5.2 C.Y.
H.S. REINFORCEMENT: 330 LBS.

SEE SHEET 1 FOR GENERAL NOTES.

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

STRUCTURES S-70-213, 214, 215, 216

DRAWN BY JDL | PLANS CK'D. MJA

PLAN AND ELEVATION S-70-214

SHEET 2 OF 4
336

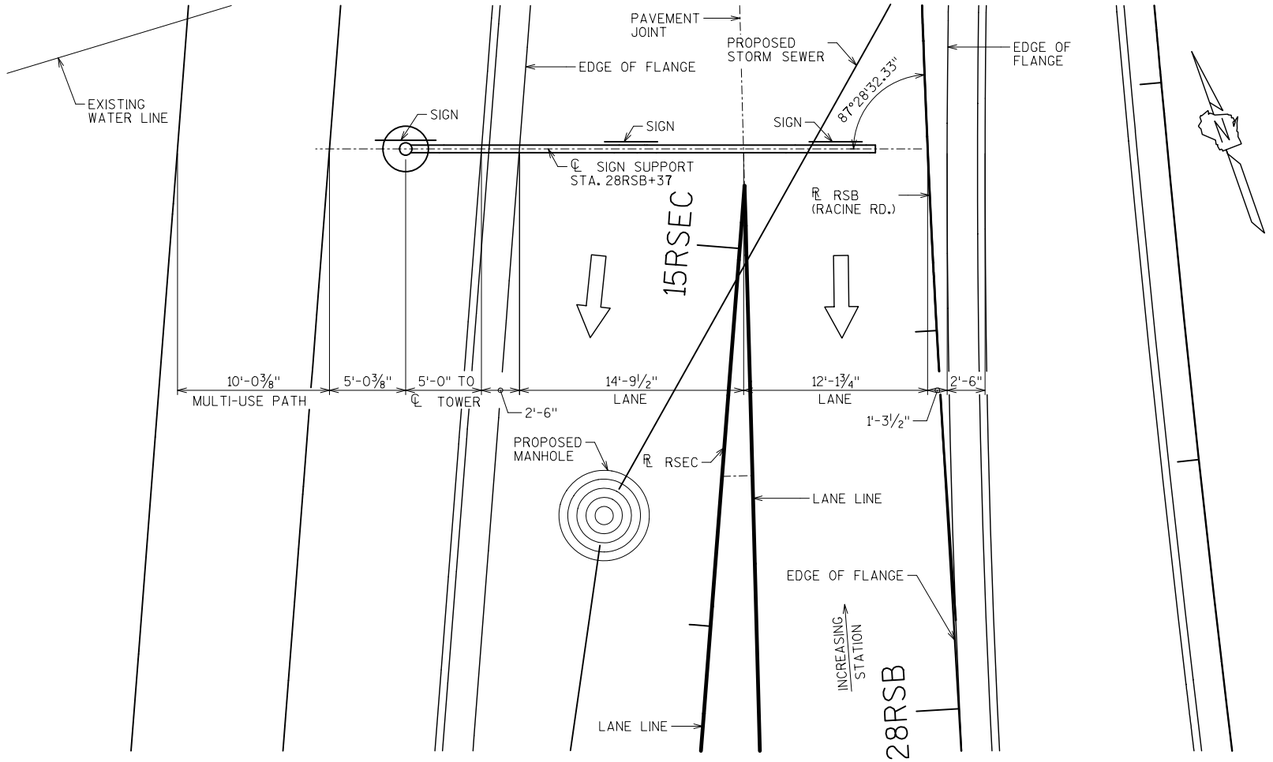
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DATE: 11/28/2015
I.D.

STATE PROJECT NUMBER
1517-75-76



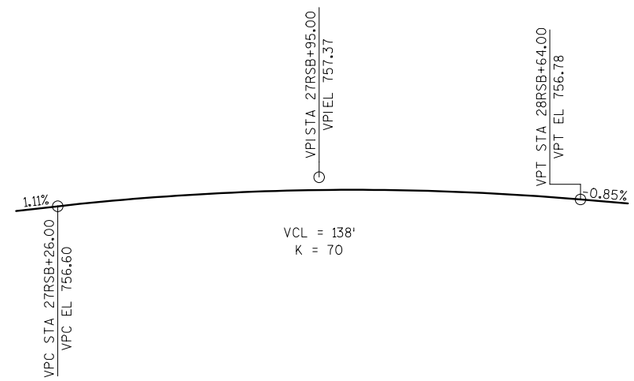
PLAN

DESIGN DATA

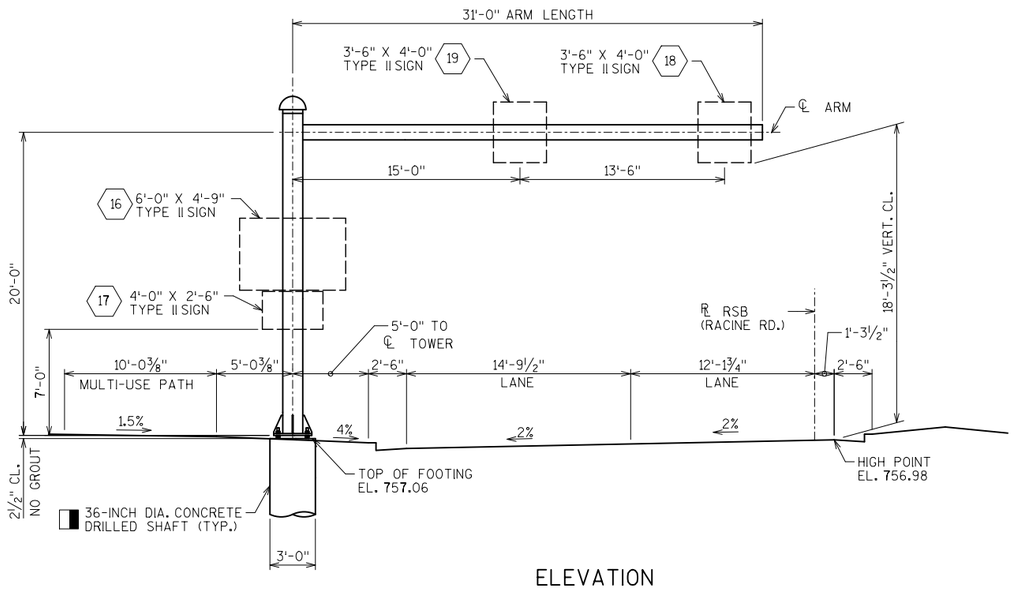
DESIGN SIGN AREA = 57 SF

SIGN DIMENSIONS

16	6'-0" X 4'-9"
17	4'-0" X 2'-6"
18	3'-6" X 4'-0"
19	3'-6" X 4'-0"



PROFILE GRADE LINE "RSB"



ELEVATION

S-70-215, STA. 28RSB+37.00
(LOOKING NORTH, UPSTATION)

ESTIMATED QUANTITIES

BID ITEM #	BID ITEM	UNIT	TOTAL
641.8100.003	OVERHEAD SIGN SUPPORT S-70-215	LS	1

LEGEND

(#) SIGN NUMBER. REFER TO THE PERMANENT SIGNING SHEETS.

MODIFY SDD 15C24 FOR A TOTAL SHAFT LENGTH OF 20'-0" WITH 21 HOOPS AND VERTICAL REINFORCING BARS WITH LENGTH OF 19'-7".

QUANTITES PER FOOTING FOR S-70-215 ARE:

CONCRETE: 5.2 C.Y.
H.S. REINFORCEMENT: 330 LBS.

SEE SHEET 1 FOR GENERAL NOTES.

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

STRUCTURES S-70-213, 214, 215, 216

DRAWN BY JDL | PLANS CK'D. MJA

PLAN AND ELEVATION S-70-215

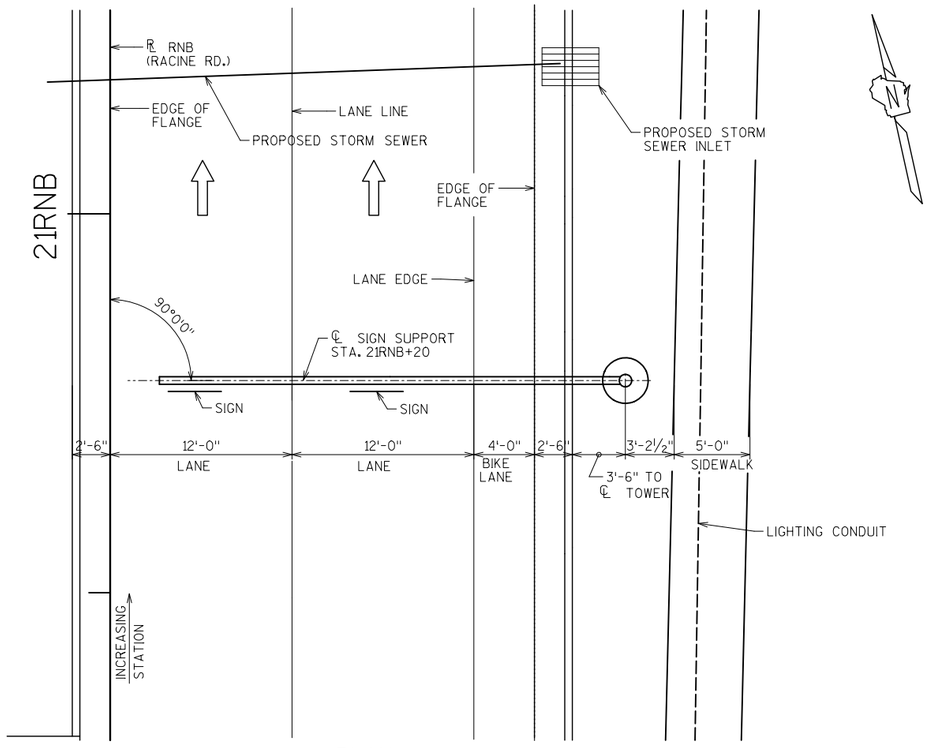
SHEET 3 OF 4
337

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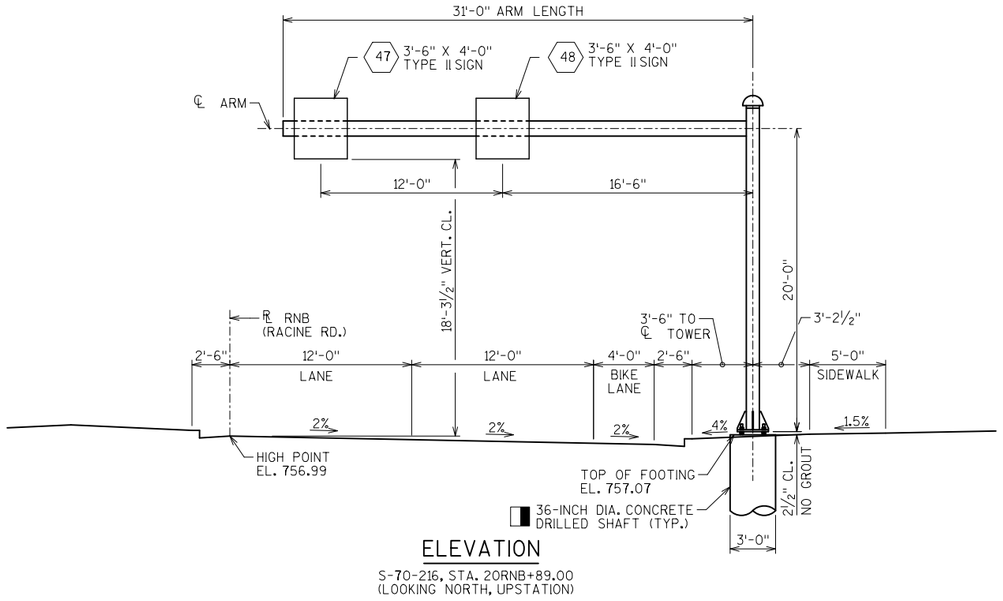
DATE: 11/28/2015
I.D.

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PLAN



ELEVATION

S-70-216, STA. 20RNB+89.00
(LOOKING NORTH, UPSTATION)

STATE PROJECT NUMBER
1517-75-76

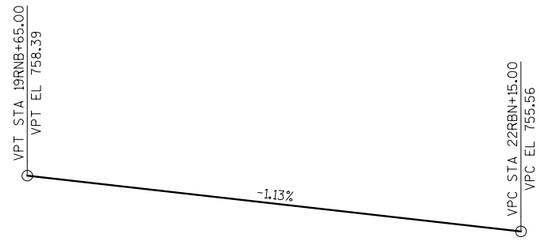
DESIGN DATA

DESIGN SIGN AREA = 28 SF

SIGN DIMENSIONS

47 3'-6" X 4'-0"

48 3'-6" X 4'-0"



PROFILE GRADE LINE "RNB"

ESTIMATED QUANTITIES

BID ITEM #	BID ITEM	UNIT	TOTAL
641.8100.004	OVERHEAD SIGN SUPPORT S-70-216	LS	1

LEGEND

(#) SIGN NUMBER. REFER TO THE PERMANENT SIGNING SHEETS.

MODIFY SDD 15C24 FOR A TOTAL SHAFT LENGTH OF 20'-0" WITH 21 HOOPS AND VERTICAL REINFORCING BARS WITH LENGTH OF 19'-7".

QUANTITES PER FOOTING FOR S-70-216 ARE:

CONCRETE: 5.2 C.Y.
H.S. REINFORCEMENT: 330 LBS.

SEE SHEET 1 FOR GENERAL NOTES.

NO.	DATE	REVISION	BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

STRUCTURES S-70-213, 214, 215, 216

DRAWN BY JDL | PLANS CK'D. MJA

PLAN AND ELEVATION S-70-216

SHEET 4 OF 4
338

FILE= P:\Transportation\US 10 WIS 441\CADD\sheets\Structures\S-70-213, 214, 215, 216\Sheets\04-S-70-216_gp.dgn

DATE: 11/28/2015
I.D.

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8

PROJECT ID 1517-75-76
DIVISION 1 - RNB

STATION		Distance	AREA (SF)				Incremental Vol (CY) (Unadjusted)					Cumulative Vol (CY)					Mass Ordinate
			Cut	Fill	EBS (In Cross Sections)	Structure Excavation (In Cross Sections)	Cut	Fill	Fill 1.43 Exp	EBS	Structure Excavation	Cut	Fill	Fill 1.43 Exp	EBS	Structure Excavation	
12+50	**AH**	0.00	127.63	1.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
12+73		22.73	138.07	0.00	0.00	0.00	111.84	0.42	0.60	0.00	0.00	111.84	0.42	0.60	0.00	0.00	111.42
12+90		17.60	135.47	0.50	0.00	0.00	89.15	0.16	0.23	0.00	0.00	200.99	0.58	0.83	0.00	0.00	200.41
13+00		9.57	132.87	0.70	0.00	0.00	47.55	0.21	0.30	0.00	0.00	248.55	0.80	1.14	0.00	0.00	247.75
13+23		22.63	139.27	0.00	0.00	0.00	114.04	0.29	0.42	0.00	0.00	362.59	1.09	1.56	0.00	0.00	361.50
13+50		27.37	128.73	0.20	0.00	0.00	135.84	0.10	0.14	0.00	0.00	498.43	1.19	1.70	0.00	0.00	497.24
13+70		20.00	135.23	0.30	0.00	0.00	97.77	0.19	0.26	0.00	0.00	596.19	1.38	1.97	0.00	0.00	594.82
13+82		12.21	143.23	0.00	0.00	0.00	62.96	0.07	0.10	0.00	0.00	659.16	1.44	2.07	0.00	0.00	657.71
13+98		16.16	135.17	0.10	0.00	0.00	83.31	0.03	0.04	0.00	0.00	742.47	1.47	2.11	0.00	0.00	741.00
14+00		1.63	135.27	0.10	0.00	0.00	8.16	0.01	0.01	0.00	0.00	750.63	1.48	2.12	0.00	0.00	749.15
14+28		27.50	132.37	1.00	0.00	0.00	136.29	0.56	0.80	0.00	0.00	886.93	2.04	2.92	0.00	0.00	884.89
14+50		22.50	136.70	0.80	0.00	0.00	112.11	0.75	1.07	0.00	0.00	999.04	2.79	3.99	0.00	0.00	996.25
15+00		50.00	139.23	1.40	0.00	0.00	255.49	2.04	2.91	0.00	0.00	1254.53	4.83	6.90	0.00	0.00	1249.71
15+50		50.00	121.07	0.00	0.00	0.00	241.02	1.30	1.85	0.00	0.00	1495.55	6.12	8.76	0.00	0.00	1489.43
16+00		50.00	184.13	0.00	0.00	0.00	282.59	0.00	0.00	0.00	0.00	1778.14	6.12	8.76	0.00	0.00	1772.02
16+50		50.00	270.37	0.00	0.00	0.00	420.83	0.00	0.00	0.00	0.00	2198.98	6.12	8.76	0.00	0.00	2192.85
17+00		50.00	309.10	0.90	0.00	0.00	536.54	0.83	1.19	0.00	0.00	2735.52	6.96	9.95	0.00	0.00	2728.56
17+17		16.78	318.80	0.00	0.00	0.00	195.11	0.28	0.40	0.00	0.00	2930.63	7.24	10.35	0.00	0.00	2923.40
17+33		16.25	336.40	1.00	0.00	0.00	197.17	0.30	0.43	0.00	0.00	3127.80	7.54	10.78	0.00	0.00	3120.26
17+50		16.97	285.50	2.40	0.00	0.00	195.44	1.07	1.53	0.00	0.00	3323.24	8.61	12.31	0.00	0.00	3314.63
18+00	**BK**	50.00	258.40	9.80	0.00	0.00	503.61	11.30	16.15	0.00	0.00	3826.85	19.90	28.46	0.00	0.00	3806.95
						Column totals	3826.85	19.90	28.46	0.00	0.00						

PROJECT ID 1517-75-76

DIVISION 1 - RNB

STATION		Distance	AREA (SF)				Incremental Vol (CY) (Unadjusted)					Cumulative Vol (CY)					Mass Ordinate
			Cut	Fill	EBS (In Cross Sections)	Structure Excavation (In Cross Sections)	Cut	Fill	Fill 1.43 Exp	EBS	Structure Excavation	Cut	Fill	Fill 1.43 Exp	EBS	Structure Excavation	
28+00	**AH**	0.00	51.70	177.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
28+50		50.00	80.10	103.80	0.00	0.00	122.04	260.00	371.80	0.00	0.00	122.04	260.00	371.80	0.00	0.00	-137.96
29+00		50.00	212.10	0.00	0.00	0.00	270.56	96.11	137.44	0.00	0.00	392.59	356.11	509.24	0.00	0.00	36.48
29+50		50.00	374.70	0.00	0.00	0.00	543.33	0.00	0.00	0.00	0.00	935.93	356.11	509.24	0.00	0.00	579.81
30+00		50.00	334.70	9.30	0.00	0.00	656.85	8.61	12.31	0.00	0.00	1592.78	364.72	521.55	0.00	0.00	1228.06
30+50		50.00	324.20	4.70	0.00	0.00	610.09	12.96	18.54	0.00	0.00	2202.87	377.69	540.09	0.00	0.00	1825.19
31+00		50.00	344.40	3.30	0.00	0.00	619.07	7.41	10.59	0.00	0.00	2821.94	385.09	550.68	0.00	0.00	2436.85
31+40		40.04	302.00	0.00	0.00	0.00	479.29	2.45	3.50	0.00	0.00	3301.24	387.54	554.18	0.00	0.00	2913.70
31+50		9.96	305.80	0.00	0.00	0.00	112.11	0.00	0.00	0.00	0.00	3413.34	387.54	554.18	0.00	0.00	3025.80
31+87		37.30	302.40	0.00	0.00	0.00	420.11	0.00	0.00	0.00	0.00	3833.45	387.54	554.18	0.00	0.00	3445.91
32+00		12.70	327.90	0.00	0.00	0.00	148.24	0.00	0.00	0.00	0.00	3981.69	387.54	554.18	0.00	0.00	3594.15
32+50		50.00	293.40	0.00	0.00	0.00	575.28	0.00	0.00	0.00	0.00	4556.97	387.54	554.18	0.00	0.00	4169.43
33+00		50.00	259.10	0.10	0.00	0.00	511.57	0.09	0.13	0.00	0.00	5068.54	387.63	554.31	0.00	0.00	4680.91
33+50		50.00	226.40	4.70	0.00	0.00	449.54	4.44	6.36	0.00	0.00	5518.08	392.08	560.67	0.00	0.00	5126.00
33+61		11.09	239.80	3.40	0.00	0.00	95.74	1.66	2.38	0.00	0.00	5613.82	393.74	563.05	0.00	0.00	5220.08
34+00		38.91	181.70	10.80	0.00	0.00	303.71	10.23	14.63	0.00	0.00	5917.54	403.97	577.68	0.00	0.00	5513.56
34+18		17.68	189.90	3.50	0.00	0.00	121.66	4.68	6.70	0.00	0.00	6039.20	408.65	584.37	0.00	0.00	5630.55
34+50		32.32	162.60	24.70	0.00	0.00	210.98	16.88	24.14	0.00	0.00	6250.18	425.53	608.51	0.00	0.00	5824.65
35+00		50.00	132.40	43.00	0.00	0.00	273.15	62.69	89.64	0.00	0.00	6523.33	488.22	698.15	0.00	0.00	6035.11
35+50		50.00	175.00	0.00	0.00	0.00	284.63	39.81	56.94	0.00	0.00	6807.96	528.03	755.09	0.00	0.00	6279.92
35+64		13.75	167.30	0.00	0.00	0.00	87.16	0.00	0.00	0.00	0.00	6895.12	528.03	755.09	0.00	0.00	6367.08
35+77	**BK**	13.25	160.70	0.00	0.00	0.00	80.48	0.00	0.00	0.00	0.00	6975.60	528.03	755.09	0.00	0.00	6447.57
						Column totals	6975.60	528.03	755.09	0.00	0.00						

PROJECT ID 1517-75-76
DIVISION 1 - RSB

STATION		Distance	AREA (SF) Cut	AREA (SF) Fill	AREA (SF) EBS (In Cross Sections)	AREA (SF) Structure Excavation (In Cross Sections)	Incremental Vol (CY) (Unadjusted) Cut	Fill	Fill 1.43 Exp	EBS	Structure Excavation	Cumulative Vol (CY) Cut	Fill	Fill 1.43 Exp	EBS	Structure Excavation	Mass Ordinate
28+00	**AH**	0.00	146.50	1.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
28+50		50.00	132.90	1.20	0.00	0.00	258.70	2.50	3.58	0.00	0.00	258.70	2.50	3.58	0.00	0.00	256.20
28+65	**BK**	14.60	160.80	0.00	0.00	0.00	79.41	0.32	0.46	0.00	0.00	338.11	2.82	4.04	0.00	0.00	335.29
						Column totals	338.11	2.82	4.04	0.00	0.00						

PROJECT ID 1517-75-76
DIVISION 1 - NS

STATION		Distance	AREA (SF) Cut	AREA (SF) Fill	AREA (SF) EBS (In Cross Sections)	AREA (SF) Structure Excavation (In Cross Sections)	Incremental Vol (CY) (Unadjusted) Cut	Fill	Fill 1.43 Exp	EBS	Structure Excavation	Cumulative Vol (CY) Cut	Fill	Fill 1.43 Exp	EBS	Structure Excavation	Mass Ordinate
13+31	**AH**	0.00	132.23	10.25	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
13+44		12.90	139.07	5.30	0.00	0.00	64.81	3.71	5.31	0.00	0.00	64.81	3.71	5.31	0.00	0.00	61.10
13+50		6.00	133.17	5.70	0.00	0.00	30.25	1.22	1.75	0.00	0.00	95.06	4.94	7.06	0.00	0.00	90.12
13+60		10.00	140.43	4.10	0.00	0.00	50.67	1.81	2.60	0.00	0.00	145.73	6.75	9.66	0.00	0.00	138.97
14+00		40.00	133.97	8.40	0.00	0.00	203.26	9.26	13.24	0.00	0.00	348.98	16.01	22.90	0.00	0.00	332.97
14+22		22.00	156.57	0.00	0.00	0.00	118.37	3.42	4.89	0.00	0.00	467.35	19.43	27.79	0.00	0.00	447.92
14+30		8.00	150.27	4.30	0.00	0.00	45.46	0.64	0.91	0.00	0.00	512.81	20.07	28.70	0.00	0.00	492.74
14+50		20.00	141.77	8.60	0.00	0.00	108.16	4.78	6.83	0.00	0.00	620.97	24.85	35.53	0.00	0.00	596.12
15+00		50.00	134.93	8.40	0.00	0.00	256.20	15.74	22.51	0.00	0.00	877.17	40.59	58.04	0.00	0.00	836.58
15+37	**BK**	36.50	99.97	0.00	0.00	0.00	158.78	5.68	8.12	0.00	0.00	1035.95	46.27	66.16	0.00	0.00	989.68
						Column totals	1035.95	46.27	66.16	0.00	0.00						

PROJECT ID 1517-75-76
DIVISION 1 - NS

STATION		Distance	AREA (SF) Cut	AREA (SF) Fill	AREA (SF) EBS (In Cross Sections)	AREA (SF) Structure Excavation (In Cross Sections)	Incremental Vol (CY) (Unadjusted) Cut	Incremental Vol (CY) (Unadjusted) Fill	Incremental Vol (CY) (Unadjusted) Fill 1.43 Exp	Incremental Vol (CY) (Unadjusted) EBS	Incremental Vol (CY) (Unadjusted) Structure Excavation	Cumulative Vol (CY) Cut	Cumulative Vol (CY) Fill	Cumulative Vol (CY) Fill 1.43 Exp	Cumulative Vol (CY) EBS	Cumulative Vol (CY) Structure Excavation	Mass Ordinate
15+86	**AH**	0.00	129.07	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
16+00		13.70	147.20	4.80	0.00	0.00	70.09	1.22	1.74	0.00	0.00	70.09	1.22	1.74	0.00	0.00	68.87
16+21		21.00	177.77	4.20	0.00	0.00	126.38	3.50	5.01	0.00	0.00	196.47	4.72	6.75	0.00	0.00	191.75
16+50		29.00	182.87	4.30	0.00	0.00	193.67	4.56	6.53	0.00	0.00	390.14	9.28	13.27	0.00	0.00	380.86
16+89		39.00	185.27	0.00	0.00	0.00	265.87	3.11	4.44	0.00	0.00	656.01	12.39	17.72	0.00	0.00	643.63
17+00		11.00	181.17	0.00	0.00	0.00	74.64	0.00	0.00	0.00	0.00	730.66	12.39	17.72	0.00	0.00	718.27
17+47		47.00	167.20	0.00	0.00	0.00	303.21	0.00	0.00	0.00	0.00	1033.87	12.39	17.72	0.00	0.00	1021.48
17+50		3.00	167.00	0.00	0.00	0.00	18.57	0.00	0.00	0.00	0.00	1052.43	12.39	17.72	0.00	0.00	1040.04
17+61		10.63	154.77	4.80	0.00	0.00	63.34	0.94	1.35	0.00	0.00	1115.77	13.33	19.07	0.00	0.00	1102.44
18+00		39.37	157.13	4.30	0.00	0.00	227.40	6.63	9.49	0.00	0.00	1343.17	19.97	28.55	0.00	0.00	1323.20
18+04		4.00	157.10	4.30	0.00	0.00	23.28	0.64	0.91	0.00	0.00	1366.45	20.60	29.46	0.00	0.00	1345.84
18+26		22.00	151.37	4.30	0.00	0.00	125.67	3.50	5.01	0.00	0.00	1492.12	24.11	34.47	0.00	0.00	1468.01
18+50		24.00	147.27	8.60	0.00	0.00	132.73	5.73	8.20	0.00	0.00	1624.84	29.84	42.67	0.00	0.00	1595.00
18+70		20.00	151.00	4.30	0.00	0.00	110.47	4.78	6.83	0.00	0.00	1735.31	34.62	49.51	0.00	0.00	1700.69
18+87		17.00	139.70	4.30	0.00	0.00	91.52	2.71	3.87	0.00	0.00	1826.83	37.33	53.38	0.00	0.00	1789.50
19+00		13.00	133.50	8.50	0.00	0.00	65.77	3.08	4.41	0.00	0.00	1892.60	40.41	57.78	0.00	0.00	1852.19
19+09		9.00	135.00	4.20	0.00	0.00	44.75	2.12	3.03	0.00	0.00	1937.35	42.53	60.81	0.00	0.00	1894.83
19+20	**BK**	10.90	132.50	8.60	0.00	0.00	54.00	2.58	3.69	0.00	0.00	1991.35	45.11	64.51	0.00	0.00	1946.24
						Column totals	1991.35	45.11	64.51	0.00	0.00						

PROJECT ID 1517-75-76
DIVISION 1 - TWS

STATION		Distance	AREA (SF) Cut	AREA (SF) Fill	AREA (SF) EBS (In Cross Sections)	AREA (SF) Structure Excavation (In Cross Sections)	Incremental Vol (CY) (Unadjusted) Cut	Incremental Vol (CY) (Unadjusted) Fill	Incremental Vol (CY) (Unadjusted) Fill 1.43 Exp	Incremental Vol (CY) (Unadjusted) EBS	Incremental Vol (CY) (Unadjusted) Structure Excavation	Cumulative Vol (CY) Cut	Cumulative Vol (CY) Fill	Cumulative Vol (CY) Fill 1.43 Exp	Cumulative Vol (CY) EBS	Cumulative Vol (CY) Structure Excavation	Mass Ordinate
10+17	**AH**	0.00	197.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
10+50		32.90	262.73	5.40	0.00	0.00	280.22	3.29	4.70	0.00	0.00	280.22	3.29	4.70	0.00	0.00	276.93
11+00		50.00	166.77	11.00	0.00	0.00	397.69	15.19	21.71	0.00	0.00	677.90	18.48	26.42	0.00	0.00	659.43
11+50		50.00	124.27	12.60	0.00	0.00	269.48	21.85	31.25	0.00	0.00	947.38	40.33	57.67	0.00	0.00	907.05
12+00		50.00	132.07	0.00	0.00	0.00	237.35	11.67	16.68	0.00	0.00	1184.72	51.99	74.35	0.00	0.00	1132.73
12+11		11.31	132.67	0.00	0.00	0.00	55.45	0.00	0.00	0.00	0.00	1240.17	51.99	74.35	0.00	0.00	1188.18
12+50		38.69	124.27	0.00	0.00	0.00	184.09	0.00	0.00	0.00	0.00	1424.26	51.99	74.35	0.00	0.00	1372.27
13+00		50.00	112.57	0.00	0.00	0.00	219.29	0.00	0.00	0.00	0.00	1643.55	51.99	74.35	0.00	0.00	1591.56
13+14	**BK**	14.30	107.47	0.80	0.00	0.00	58.27	0.21	0.30	0.00	0.00	1701.82	52.21	74.65	0.00	0.00	1649.61
						Column totals	1701.82	52.21	74.65	0.00	0.00						

PROJECT ID 1517-75-76
DIVISION 2 - RNB

STATION		Distance	AREA (SF) Cut	AREA (SF) Fill	AREA (SF) EBS (In Cross Sections)	AREA (SF) Structure Excavation (In Cross Sections)	Incremental Vol (CY) (Unadjusted) Cut	Incremental Vol (CY) (Unadjusted) Fill	Incremental Vol (CY) (Unadjusted) Fill 1.43 Exp	Incremental Vol (CY) (Unadjusted) EBS	Incremental Vol (CY) (Unadjusted) Structure Excavation	Cumulative Vol (CY) Cut	Cumulative Vol (CY) Fill	Cumulative Vol (CY) Fill 1.43 Exp	Cumulative Vol (CY) EBS	Cumulative Vol (CY) Structure Excavation	Mass Ordinate
18+00	**AH**	0.00	258.40	9.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
18+31		30.97	277.50	2.00	0.00	0.00	307.35	6.77	9.68	0.00	0.00	307.35	6.77	9.68	0.00	0.00	300.58
18+50		19.03	248.60	13.90	0.00	0.00	185.40	5.60	8.01	0.00	0.00	492.75	12.37	17.69	0.00	0.00	480.38
19+00		50.00	213.80	33.70	0.00	0.00	428.15	44.07	63.03	0.00	0.00	920.90	56.44	80.72	0.00	0.00	864.45
19+50		50.00	546.10	0.00	0.00	0.00	703.61	31.20	44.62	0.00	0.00	1624.51	87.65	125.34	0.00	0.00	1536.86
19+69		18.93	595.40	0.00	0.00	0.00	400.16	0.00	0.00	0.00	0.00	2024.67	87.65	125.34	0.00	0.00	1937.02
20+00		31.07	648.70	0.00	0.00	0.00	715.82	0.00	0.00	0.00	0.00	2740.49	87.65	125.34	0.00	0.00	2652.84
20+25		25.00	490.20	0.00	0.00	0.00	527.27	0.00	0.00	0.00	0.00	3267.76	87.65	125.34	0.00	0.00	3180.11
20+50		25.00	567.50	0.00	0.00	0.00	489.68	0.00	0.00	0.00	0.00	3757.43	87.65	125.34	0.00	0.00	3669.78
21+00		50.00	293.10	0.00	0.00	0.00	796.85	0.00	0.00	0.00	0.00	4554.28	87.65	125.34	0.00	0.00	4466.63
21+50		50.00	216.70	0.00	0.00	0.00	472.04	0.00	0.00	0.00	0.00	5026.32	87.65	125.34	0.00	0.00	4938.67
21+51		0.78	216.70	0.00	0.00	0.00	6.26	0.00	0.00	0.00	0.00	5032.58	87.65	125.34	0.00	0.00	4944.93
22+00		49.22	270.10	0.00	0.00	0.00	443.71	0.00	0.00	0.00	0.00	5476.29	87.65	125.34	0.00	0.00	5388.64
22+50		50.00	350.70	0.00	0.00	0.00	574.81	0.00	0.00	0.00	0.00	6051.10	87.65	125.34	0.00	0.00	5963.46
23+00		50.00	397.20	0.00	0.00	0.00	692.50	0.00	0.00	0.00	0.00	6743.60	87.65	125.34	0.00	0.00	6655.96
23+50		50.00	396.80	0.00	0.00	0.00	735.19	0.00	0.00	0.00	0.00	7478.79	87.65	125.34	0.00	0.00	7391.14
23+74	**BK**	24.26	362.70	0.00	0.00	0.00	341.21	0.00	0.00	0.00	0.00	7820.00	87.65	125.34	0.00	0.00	7732.35
						Column totals	7820.00	87.65	125.34	0.00	0.00						

PROJECT ID 1517-75-76
DIVISION 2 - RNB

STATION		Distance	AREA (SF) Cut	AREA (SF) Fill	AREA (SF) EBS (In Cross Sections)	AREA (SF) Structure Excavation (In Cross Sections)	Incremental Vol (CY) (Unadjusted) Cut	Incremental Vol (CY) (Unadjusted) Fill	Incremental Vol (CY) (Unadjusted) Fill 1.43 Exp	Incremental Vol (CY) (Unadjusted) EBS	Incremental Vol (CY) (Unadjusted) Structure Excavation	Cumulative Vol (CY) Cut	Cumulative Vol (CY) Fill	Cumulative Vol (CY) Fill 1.43 Exp	Cumulative Vol (CY) EBS	Cumulative Vol (CY) Structure Excavation	Mass Ordinate
25+82	**AH**	0.00	75.40	53.20	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
26+00		17.70	34.00	119.30	0.00	0.00	35.86	56.54	80.85	0.00	0.00	35.86	56.54	80.85	0.00	0.00	-20.68
26+50		50.00	82.20	55.50	0.00	0.00	107.59	161.85	231.45	0.00	0.00	143.45	218.39	312.30	0.00	0.00	-74.94
27+00		50.00	89.30	65.60	0.00	0.00	158.80	112.13	160.35	0.00	0.00	302.25	330.52	472.65	0.00	0.00	-28.28
27+50		50.00	41.40	190.50	0.00	0.00	121.02	237.13	339.10	0.00	0.00	423.27	567.65	811.74	0.00	0.00	-144.39
28+00	**BK**	50.00	51.70	177.00	0.00	0.00	86.20	340.28	486.60	0.00	0.00	509.47	907.93	1298.34	0.00	0.00	-398.46
						Column totals	509.47	907.93	1298.34	0.00	0.00						

PROJECT ID 1517-75-76
DIVISION 2 - RSB

STATION		Distance	AREA (SF)				Incremental Vol (CY) (Unadjusted)					Cumulative Vol (CY)					Mass Ordinate
			Cut	Fill	EBS (In Cross Sections)	Structure Excavation (In Cross Sections)	Cut	Fill	Fill 1.43 Exp	EBS	Structure Excavation	Cut	Fill	Fill 1.43 Exp	EBS	Structure Excavation	
20+61	**AH**	0.00	336.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
21+00		38.90	290.60	0.00	0.00	0.00	451.89	0.00	0.00	0.00	0.00	451.89	0.00	0.00	0.00	0.00	451.89
21+50		50.00	237.00	0.00	0.00	0.00	488.52	0.00	0.00	0.00	0.00	940.41	0.00	0.00	0.00	0.00	940.41
22+00		50.00	262.60	0.00	0.00	0.00	462.59	0.00	0.00	0.00	0.00	1403.00	0.00	0.00	0.00	0.00	1403.00
22+50		50.00	312.10	0.00	0.00	0.00	532.13	0.00	0.00	0.00	0.00	1935.13	0.00	0.00	0.00	0.00	1935.13
23+00		50.00	160.40	0.00	0.00	0.00	437.50	0.00	0.00	0.00	0.00	2372.63	0.00	0.00	0.00	0.00	2372.63
23+50		50.00	173.10	0.00	0.00	0.00	308.80	0.00	0.00	0.00	0.00	2681.43	0.00	0.00	0.00	0.00	2681.43
24+00		50.00	138.00	0.00	0.00	0.00	288.06	0.00	0.00	0.00	0.00	2969.48	0.00	0.00	0.00	0.00	2969.48
24+07	**BK**	6.80	144.60	0.00	0.00	0.00	35.59	0.00	0.00	0.00	0.00	3005.07	0.00	0.00	0.00	0.00	3005.07
						Column totals	3005.07	0.00	0.00	0.00	0.00						

PROJECT ID 1517-75-76
DIVISION 2 - RSB

STATION		Distance	AREA (SF)				Incremental Vol (CY) (Unadjusted)					Cumulative Vol (CY)					Mass Ordinate
			Cut	Fill	EBS (In Cross Sections)	Structure Excavation (In Cross Sections)	Cut	Fill	Fill 1.43 Exp	EBS	Structure Excavation	Cut	Fill	Fill 1.43 Exp	EBS	Structure Excavation	
25+98	**AH**	0.00	53.60	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
26+00		2.41	56.80	0.00	0.00	0.00	4.93	0.00	0.00	0.00	0.00	4.93	0.00	0.00	0.00	0.00	4.93
26+50		50.00	95.50	1.70	0.00	0.00	141.02	1.57	2.25	0.00	0.00	145.95	1.57	2.25	0.00	0.00	144.37
27+00		50.00	71.30	4.60	0.00	0.00	154.44	5.83	8.34	0.00	0.00	300.39	7.41	10.59	0.00	0.00	292.98
27+50		50.00	37.20	56.00	0.00	0.00	100.46	56.11	80.24	0.00	0.00	400.85	63.52	90.83	0.00	0.00	337.33
28+00	**BK**	50.00	146.50	1.50	0.00	0.00	170.09	53.24	76.13	0.00	0.00	570.95	116.76	166.97	0.00	0.00	454.19
						Column totals	570.95	116.76	166.97	0.00	0.00						

DIVISION 2 - CNB

STATION		Distance	AREA (SF) Cut	AREA (SF) Fill	AREA (SF) EBS (In Cross Sections)	AREA (SF) Structure Excavation (In Cross Sections)	Incremental Vol (CY) (Unadjusted) Cut	Incremental Vol (CY) (Unadjusted) Fill	Incremental Vol (CY) (Unadjusted) Fill 1.43 Exp	Incremental Vol (CY) (Unadjusted) EBS	Incremental Vol (CY) (Unadjusted) Structure Excavation	Cumulative Vol (CY) Cut	Cumulative Vol (CY) Fill	Cumulative Vol (CY) Fill 1.43 Exp	Cumulative Vol (CY) EBS	Cumulative Vol (CY) Structure Excavation	Mass Ordinate
236+63	**AH**	0.00	38.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
237+00		36.80	55.80	9.00	0.00	0.00	64.20	6.13	8.77	0.00	0.00	64.20	6.13	8.77	0.00	0.00	58.06
237+50		50.00	66.20	10.60	0.00	0.00	112.96	18.15	25.95	0.00	0.00	177.16	24.28	34.72	0.00	0.00	152.88
238+00		50.00	521.70	10.20	0.00	0.00	544.35	19.26	27.54	0.00	0.00	721.51	43.54	62.26	0.00	0.00	677.97
238+50		50.00	512.50	7.70	0.00	0.00	957.59	16.57	23.70	0.00	0.00	1679.10	60.11	85.96	0.00	0.00	1618.99
239+00		50.00	440.90	2.30	0.00	0.00	882.78	9.26	13.24	0.00	0.00	2561.88	69.37	99.20	0.00	0.00	2492.51
239+50		50.00	298.10	0.00	0.00	0.00	684.26	2.13	3.05	0.00	0.00	3246.14	71.50	102.25	0.00	0.00	3174.64
240+00		50.00	246.50	0.00	0.00	0.00	504.26	0.00	0.00	0.00	0.00	3750.40	71.50	102.25	0.00	0.00	3678.90
240+50		50.00	219.80	0.00	0.00	0.00	431.76	0.00	0.00	0.00	0.00	4182.16	71.50	102.25	0.00	0.00	4110.65
241+00		50.00	193.90	0.20	0.00	0.00	383.06	0.19	0.26	0.00	0.00	4565.21	71.69	102.52	0.00	0.00	4493.53
241+50		50.00	148.00	57.20	0.00	0.00	316.57	53.15	76.00	0.00	0.00	4881.79	124.84	178.52	0.00	0.00	4756.95
242+00		50.00	100.90	46.10	0.00	0.00	230.46	95.65	136.78	0.00	0.00	5112.25	220.49	315.29	0.00	0.00	4891.77
242+50		50.00	42.10	33.40	0.00	0.00	132.41	73.61	105.26	0.00	0.00	5244.66	294.10	420.56	0.00	0.00	4950.56
243+00		50.00	85.40	21.20	0.00	0.00	118.06	50.56	72.29	0.00	0.00	5362.71	344.65	492.85	0.00	0.00	5018.06
243+50		50.00	76.20	44.70	0.00	0.00	149.63	61.02	87.26	0.00	0.00	5512.34	405.67	580.11	0.00	0.00	5106.67
243+93	**BK**	42.80	2.80	49.70	0.00	0.00	62.61	74.82	106.99	0.00	0.00	5574.96	480.49	687.10	0.00	0.00	5094.47
						Column totals	5574.96	480.49	687.10	0.00	0.00						

PROJECT ID 1517-75-76
DIVISION 2 - CSB

STATION		Distance	AREA (SF)				Incremental Vol (CY) (Unadjusted)					Cumulative Vol (CY)					Mass Ordinate
			Cut	Fill	EBS (In Cross Sections)	Structure Excavation (In Cross Sections)	Cut	Fill	Fill 1.43 Exp	EBS	Structure Excavation	Cut	Fill	Fill 1.43 Exp	EBS	Structure Excavation	
236+65	**AH**	0.00	166.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
237+00		35.21	327.00	0.00	0.00	0.00	321.52	0.00	0.00	0.00	0.00	321.52	0.00	0.00	0.00	0.00	321.52
237+50		50.00	203.10	2.80	0.00	0.00	490.83	2.59	3.71	0.00	0.00	812.35	2.59	3.71	0.00	0.00	809.76
238+00		50.00	105.70	9.80	0.00	0.00	285.93	11.67	16.68	0.00	0.00	1098.28	14.26	20.39	0.00	0.00	1084.02
238+50		50.00	57.80	8.90	0.00	0.00	151.39	17.31	24.76	0.00	0.00	1249.67	31.57	45.15	0.00	0.00	1218.09
239+00		50.00	15.50	16.70	0.00	0.00	67.87	23.70	33.90	0.00	0.00	1317.54	55.28	79.05	0.00	0.00	1262.26
239+50		50.00	31.20	18.90	0.00	0.00	43.24	32.96	47.14	0.00	0.00	1360.78	88.24	126.18	0.00	0.00	1272.54
240+00		50.00	74.10	11.30	0.00	0.00	97.50	27.96	39.99	0.00	0.00	1458.28	116.20	166.17	0.00	0.00	1342.08
240+50		50.00	91.50	2.90	0.00	0.00	153.33	13.15	18.80	0.00	0.00	1611.61	129.35	184.97	0.00	0.00	1482.26
241+00		50.00	87.30	0.40	0.00	0.00	165.56	3.06	4.37	0.00	0.00	1777.17	132.41	189.34	0.00	0.00	1644.76
241+50		50.00	95.50	0.30	0.00	0.00	169.26	0.65	0.93	0.00	0.00	1946.43	133.06	190.27	0.00	0.00	1813.37
242+00		50.00	95.40	0.00	0.00	0.00	176.76	0.28	0.40	0.00	0.00	2123.19	133.33	190.67	0.00	0.00	1989.85
242+50		50.00	83.20	5.60	0.00	0.00	165.37	5.19	7.41	0.00	0.00	2288.56	138.52	198.08	0.00	0.00	2150.04
243+00		50.00	28.80	8.80	0.00	0.00	103.70	13.33	19.07	0.00	0.00	2392.26	151.85	217.15	0.00	0.00	2240.41
243+50		50.00	0.20	33.50	0.00	0.00	26.85	39.17	56.01	0.00	0.00	2419.11	191.02	273.16	0.00	0.00	2228.09
243+83	**BK**	32.90	1.00	18.90	0.00	0.00	0.73	31.93	45.65	0.00	0.00	2419.84	222.94	318.81	0.00	0.00	2196.90
						Column totals	2419.84	222.94	318.81	0.00	0.00						

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PROJECT ID 1517-75-76
DIVISION 2 - RSWC

STATION		Distance	AREA (SF) Cut	AREA (SF) Fill	AREA (SF) EBS (In Cross Sections)	AREA (SF) Structure Excavation (In Cross Sections)	Incremental Vol (CY) (Unadjusted) Cut	Incremental Vol (CY) (Unadjusted) Fill	Incremental Vol (CY) (Unadjusted) Fill 1.43 Exp	Incremental Vol (CY) (Unadjusted) EBS	Incremental Vol (CY) (Unadjusted) Structure Excavation	Cumulative Vol (CY) Cut	Cumulative Vol (CY) Fill	Cumulative Vol (CY) Fill 1.43 Exp	Cumulative Vol (CY) EBS	Cumulative Vol (CY) Structure Excavation	Mass Ordinate
18+63	**AH**	0.00	71.30	59.80	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
19+00		36.60	258.70	21.50	0.00	0.00	223.67	55.10	78.80	0.00	0.00	223.67	55.10	78.80	0.00	0.00	168.56
19+50		50.00	358.70	8.50	0.00	0.00	571.67	27.78	39.72	0.00	0.00	795.33	82.88	118.52	0.00	0.00	712.45
20+00		50.00	252.20	7.70	0.00	0.00	565.65	15.00	21.45	0.00	0.00	1360.98	97.88	139.97	0.00	0.00	1263.10
20+50		50.00	100.20	24.60	0.00	0.00	326.30	29.91	42.77	0.00	0.00	1687.28	127.79	182.74	0.00	0.00	1559.49
21+00		50.00	60.60	135.80	0.00	0.00	148.89	148.52	212.38	0.00	0.00	1836.17	276.31	395.12	0.00	0.00	1559.86
21+50		50.00	37.50	120.20	0.00	0.00	90.83	237.04	338.96	0.00	0.00	1927.00	513.34	734.08	0.00	0.00	1413.66
22+00		50.00	3.60	104.10	0.00	0.00	38.06	207.69	296.99	0.00	0.00	1965.06	721.03	1031.07	0.00	0.00	1244.03
22+50		50.00	2.50	40.80	0.00	0.00	5.65	134.17	191.86	0.00	0.00	1970.70	855.20	1222.93	0.00	0.00	1115.51
23+00		50.00	25.20	15.90	0.00	0.00	25.65	52.50	75.08	0.00	0.00	1996.35	907.70	1298.01	0.00	0.00	1088.66
23+50		50.00	92.30	6.20	0.00	0.00	108.80	20.46	29.26	0.00	0.00	2105.15	928.16	1327.27	0.00	0.00	1176.99
24+00		50.00	164.30	4.30	0.00	0.00	237.59	9.72	13.90	0.00	0.00	2342.74	937.88	1341.17	0.00	0.00	1404.86
24+50		50.00	216.30	4.30	0.00	0.00	352.41	7.96	11.39	0.00	0.00	2695.15	945.84	1352.56	0.00	0.00	1749.30
25+00		50.00	298.30	4.30	0.00	0.00	476.48	7.96	11.39	0.00	0.00	3171.63	953.81	1363.94	0.00	0.00	2217.82
25+50		50.00	277.80	4.30	0.00	0.00	533.43	7.96	11.39	0.00	0.00	3705.06	961.77	1375.33	0.00	0.00	2743.29
26+00		50.00	268.30	4.30	0.00	0.00	505.65	7.96	11.39	0.00	0.00	4210.70	969.73	1386.72	0.00	0.00	3240.97
26+50		50.00	219.90	2.30	0.00	0.00	452.04	6.11	8.74	0.00	0.00	4662.74	975.84	1395.46	0.00	0.00	3686.90
26+99	**BK**	49.00	199.10	2.30	0.00	0.00	380.20	4.17	5.97	0.00	0.00	5042.94	980.02	1401.43	0.00	0.00	4062.93
						Column totals	5042.94	980.02	1401.43	0.00	0.00						

PROJECT ID 1517-75-76
DIVISION 2 - RSEC

STATION		Distance	AREA (SF) Cut	AREA (SF) Fill	AREA (SF) EBS (In Cross Sections)	AREA (SF) Structure Excavation (In Cross Sections)	Incremental Vol (CY) (Unadjusted) Cut	Incremental Vol (CY) (Unadjusted) Fill	Incremental Vol (CY) (Unadjusted) Fill 1.43 Exp	Incremental Vol (CY) (Unadjusted) EBS	Incremental Vol (CY) (Unadjusted) Structure Excavation	Cumulative Vol (CY) Cut	Cumulative Vol (CY) Fill	Cumulative Vol (CY) Fill 1.43 Exp	Cumulative Vol (CY) EBS	Cumulative Vol (CY) Structure Excavation	Mass Ordinate
11+52	**AH**	0.00	410.60	2.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
12+00		47.90	381.00	2.30	0.00	0.00	702.18	4.08	5.83	0.00	0.00	702.18	4.08	5.83	0.00	0.00	698.10
12+50		50.00	331.80	2.30	0.00	0.00	660.00	4.26	6.09	0.00	0.00	1362.18	8.34	11.93	0.00	0.00	1353.84
13+00		50.00	296.70	2.30	0.00	0.00	581.94	4.26	6.09	0.00	0.00	1944.12	12.60	18.02	0.00	0.00	1931.52
13+50		50.00	303.10	2.30	0.00	0.00	555.37	4.26	6.09	0.00	0.00	2499.49	16.86	24.11	0.00	0.00	2482.64
14+00		50.00	51.10	66.00	0.00	0.00	327.96	63.24	90.43	0.00	0.00	2827.46	80.10	114.54	0.00	0.00	2747.36
14+04	**BK**	3.60	41.40	62.20	0.00	0.00	6.17	8.55	12.22	0.00	0.00	2833.62	88.65	126.76	0.00	0.00	2744.98
						Column totals	2833.62	88.65	126.76	0.00	0.00						

PROJECT ID 1517-75-76
DIVISION 2 - RRT

STATION		Distance	AREA (SF)				Incremental Vol (CY) (Unadjusted)					Cumulative Vol (CY)					Mass Ordinate
			Cut	Fill	EBS (In Cross Sections)	Structure Excavation (In Cross Sections)	Cut	Fill	Fill 1.43 Exp	EBS	Structure Excavation	Cut	Fill	Fill 1.43 Exp	EBS	Structure Excavation	
10+00	**AH**	0.00	465.10	7.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
10+25		24.90	397.90	8.80	0.00	0.00	397.94	7.33	10.48	0.00	0.00	397.94	7.33	10.48	0.00	0.00	390.61
10+50		25.00	383.40	11.00	0.00	0.00	361.71	9.17	13.11	0.00	0.00	759.65	16.50	23.59	0.00	0.00	743.15
10+75		25.00	185.80	31.70	0.00	0.00	263.52	19.77	28.27	0.00	0.00	1023.17	36.27	51.86	0.00	0.00	986.90
11+00		25.00	145.80	98.80	0.00	0.00	153.52	60.42	86.40	0.00	0.00	1176.69	96.68	138.26	0.00	0.00	1080.01
11+25		25.00	160.80	106.00	0.00	0.00	141.94	94.81	135.59	0.00	0.00	1318.63	191.50	273.84	0.00	0.00	1127.14
11+50		25.00	236.30	7.80	0.00	0.00	183.84	52.69	75.34	0.00	0.00	1502.48	244.18	349.18	0.00	0.00	1258.29
11+75		25.00	137.80	10.00	0.00	0.00	173.19	8.24	11.78	0.00	0.00	1675.67	252.42	360.97	0.00	0.00	1423.25
12+00		25.00	80.70	13.10	0.00	0.00	101.16	10.69	15.29	0.00	0.00	1776.83	263.12	376.26	0.00	0.00	1513.71
12+25		25.00	106.60	4.60	0.00	0.00	86.71	8.19	11.72	0.00	0.00	1863.54	271.31	387.98	0.00	0.00	1592.23
12+50		25.00	123.50	2.10	0.00	0.00	106.53	3.10	4.44	0.00	0.00	1970.07	274.42	392.41	0.00	0.00	1695.65
12+75		25.00	172.40	1.70	0.00	0.00	136.99	1.76	2.52	0.00	0.00	2107.06	276.17	394.93	0.00	0.00	1830.89
13+00		25.00	282.30	1.70	0.00	0.00	210.51	1.57	2.25	0.00	0.00	2317.57	277.75	397.18	0.00	0.00	2039.82
13+25		25.00	227.00	2.00	0.00	0.00	235.79	1.71	2.45	0.00	0.00	2553.36	279.46	399.63	0.00	0.00	2273.89
13+50		25.00	292.40	2.30	0.00	0.00	240.46	1.99	2.85	0.00	0.00	2793.82	281.45	402.48	0.00	0.00	2512.37
13+75		25.00	269.20	2.20	0.00	0.00	260.00	2.08	2.98	0.00	0.00	3053.82	283.54	405.46	0.00	0.00	2770.28
14+00		25.00	192.30	2.20	0.00	0.00	213.66	2.04	2.91	0.00	0.00	3267.48	285.57	408.37	0.00	0.00	2981.90
14+25		25.00	188.10	2.90	0.00	0.00	176.11	2.36	3.38	0.00	0.00	3443.59	287.93	411.74	0.00	0.00	3155.65
14+50		25.00	212.50	4.20	0.00	0.00	185.46	3.29	4.70	0.00	0.00	3629.05	291.22	416.45	0.00	0.00	3337.83
14+61	**BK**	10.80	463.90	7.00	0.00	0.00	135.28	2.24	3.20	0.00	0.00	3764.33	293.46	419.65	0.00	0.00	3470.87
						Column totals	3764.33	293.46	419.65	0.00	0.00						

9

FILE NAME: \\milw00\ingrproj\1517-75-76\ti\cds\090101_ew.ppt PLOT DATE : 1/29/2016 9:08:07 AM PLOT BY : HNTB. CORP PLOT NAME : 090101_ew10 PLOT SCALE : 1:1

PROJECT ID 1517-75-76
DIVISION 2 - CCW

STATION		Distance	AREA (SF) Cut	Fill	EBS (In Cross Sections)	Structure Excavation (In Cross Sections)	Incremental Vol (CY) (Unadjusted) Cut	Fill	Fill 1.43 Exp	EBS	Structure Excavation	Cumulative Vol (CY) Cut	Fill	Fill 1.43 Exp	EBS	Structure Excavation	Mass Ordinate
+5	**AH**	0.00	108.70	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
+50		44.90	31.60	3.70	0.00	0.00	116.66	3.08	4.40	0.00	0.00	116.66	3.08	4.40	0.00	0.00	113.58
+92	**BK**	42.40	27.10	1.30	0.00	0.00	46.09	3.93	5.61	0.00	0.00	162.75	7.00	10.01	0.00	0.00	155.74
						Column totals	162.75	7.00	10.01	0.00	0.00						

PROJECT ID 1517-75-76
DIVISION 2 - CGS

STATION		Distance	AREA (SF) Cut	Fill	EBS (In Cross Sections)	Structure Excavation (In Cross Sections)	Incremental Vol (CY) (Unadjusted) Cut	Fill	Fill 1.43 Exp	EBS	Structure Excavation	Cumulative Vol (CY) Cut	Fill	Fill 1.43 Exp	EBS	Structure Excavation	Mass Ordinate
+5	**AH**	0.00	118.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
+50		44.90	161.90	0.30	0.00	0.00	232.98	0.25	0.36	0.00	0.00	232.98	0.25	0.36	0.00	0.00	232.73
1+00		50.00	53.90	5.50	0.00	0.00	199.81	5.37	7.68	0.00	0.00	432.80	5.62	8.04	0.00	0.00	427.18
1+32	**BK**	31.80	31.50	6.30	0.00	0.00	50.29	6.95	9.94	0.00	0.00	483.09	12.57	17.97	0.00	0.00	470.52
						Column totals	483.09	12.57	17.97	0.00	0.00						

PROJECT ID 1517-75-76
DIVISION 2 - CDW

STATION		Distance	AREA (SF) Cut	Fill	EBS (In Cross Sections)	Structure Excavation (In Cross Sections)	Incremental Vol (CY) (Unadjusted) Cut	Fill	Fill 1.43 Exp	EBS	Structure Excavation	Cumulative Vol (CY) Cut	Fill	Fill 1.43 Exp	EBS	Structure Excavation	Mass Ordinate
+5	**AH**	0.00	84.40	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
+50		44.90	267.00	0.00	0.00	0.00	292.18	0.00	0.00	0.00	0.00	292.18	0.00	0.00	0.00	0.00	292.18
1+00		50.00	158.80	0.00	0.00	0.00	394.26	0.00	0.00	0.00	0.00	686.44	0.00	0.00	0.00	0.00	686.44
1+50		50.00	128.90	2.20	0.00	0.00	266.39	2.04	2.91	0.00	0.00	952.83	2.04	2.91	0.00	0.00	950.79
2+00		50.00	100.80	0.10	0.00	0.00	212.69	2.13	3.05	0.00	0.00	1165.52	4.17	5.96	0.00	0.00	1161.35
2+50		50.00	19.60	4.80	0.00	0.00	111.48	4.54	6.49	0.00	0.00	1277.00	8.70	12.45	0.00	0.00	1268.29
2+74	**BK**	23.70	32.70	0.00	0.00	0.00	22.95	2.11	3.01	0.00	0.00	1299.95	10.81	15.46	0.00	0.00	1289.14
						Column totals	1299.95	10.81	15.46	0.00	0.00						

PROJECT ID 1517-75-76
DIVISION 2 - PDQ

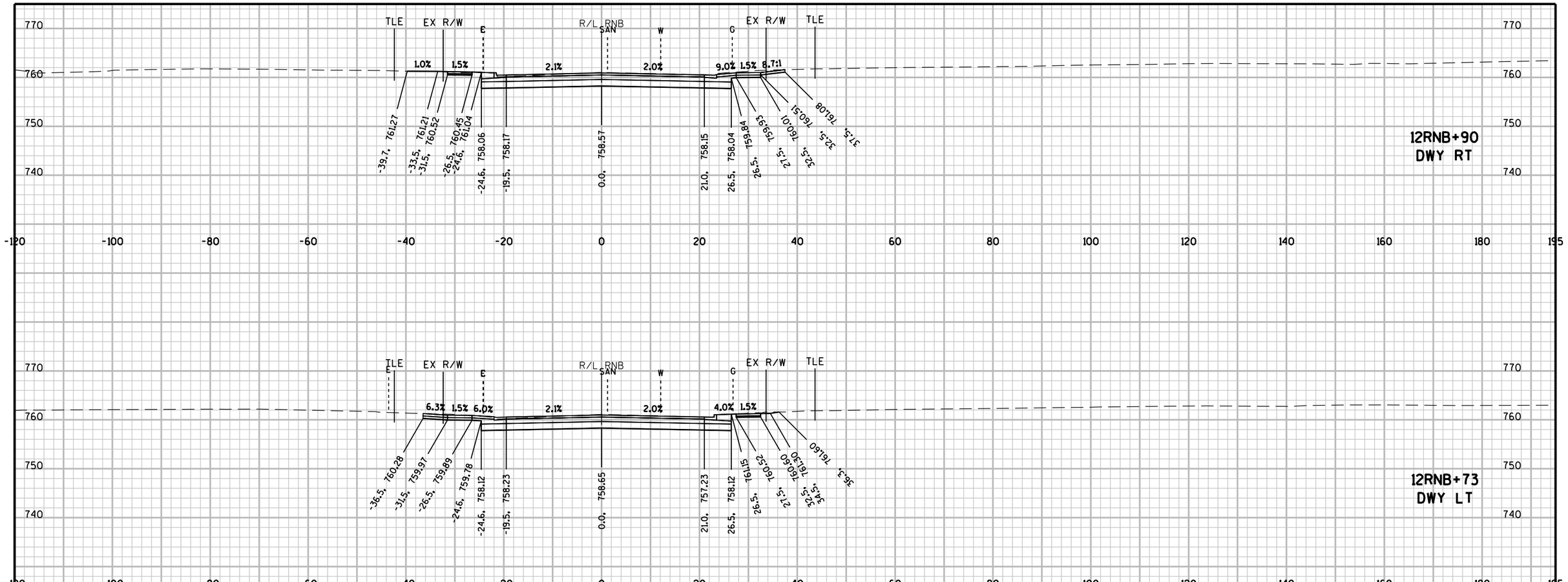
STATION		Distance	AREA (SF) Cut	Fill	EBS (In Cross Sections)	Structure Excavation (In Cross Sections)	Incremental Vol (CY) (Unadjusted) Cut	Fill	Fill 1.43 Exp	EBS	Structure Excavation	Cumulative Vol (CY) Cut	Fill	Fill 1.43 Exp	EBS	Structure Excavation	Mass Ordinate
+5	**AH**	0.00	115.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
+50		44.90	44.10	0.60	0.00	0.00	132.54	0.50	0.71	0.00	0.00	132.54	0.50	0.71	0.00	0.00	132.04
+68	**BK**	17.80	30.00	0.00	0.00	0.00	24.43	0.20	0.28	0.00	0.00	156.96	0.70	1.00	0.00	0.00	156.27
						Column totals	156.96	0.70	1.00	0.00	0.00						

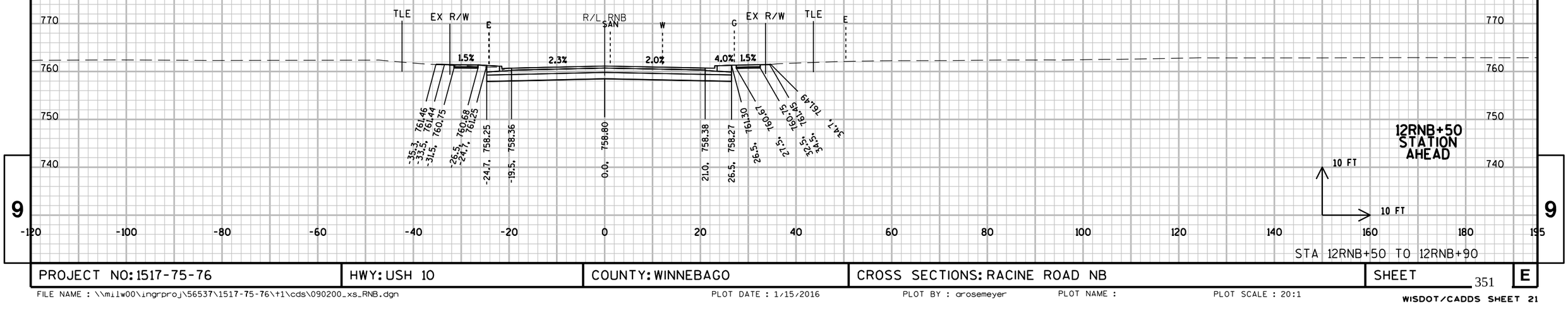
PROJECT ID 1517-75-76
DIVISION 2 - SDW

STATION		Distance	AREA (SF) Cut	Fill	EBS (In Cross Sections)	Structure Excavation (In Cross Sections)	Incremental Vol (CY) (Unadjusted) Cut	Fill	Fill 1.43 Exp	EBS	Structure Excavation	Cumulative Vol (CY) Cut	Fill	Fill 1.43 Exp	EBS	Structure Excavation	Mass Ordinate
+5	**AH**	0.00	60.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
+50		44.90	24.70	0.00	0.00	0.00	70.51	0.00	0.00	0.00	0.00	70.51	0.00	0.00	0.00	0.00	70.51
+57	**BK**	6.90	11.10	0.00	0.00	0.00	4.57	0.00	0.00	0.00	0.00	75.08	0.00	0.00	0.00	0.00	75.08
						Column totals	75.08	0.00	0.00	0.00	0.00						

PROJECT ID 1517-75-76
DIVISION 2 - VMB

STATION		Distance	AREA (SF) Cut	Fill	EBS (In Cross Sections)	Structure Excavation (In Cross Sections)	Incremental Vol (CY) (Unadjusted) Cut	Fill	Fill 1.43 Exp	EBS	Structure Excavation	Cumulative Vol (CY) Cut	Fill	Fill 1.43 Exp	EBS	Structure Excavation	Mass Ordinate
+10	**AH**	0.00	15.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
+50		40.00	14.60	0.00	0.00	0.00	22.30	0.00	0.00	0.00	0.00	22.30	0.00	0.00	0.00	0.00	22.30
1+00		50.00	14.40	0.00	0.00	0.00	26.85	0.00	0.00	0.00	0.00	49.15	0.00	0.00	0.00	0.00	49.15
1+48	**BK**	48.00	11.70	0.00	0.00	0.00	23.20	0.00	0.00	0.00	0.00	72.35	0.00	0.00	0.00	0.00	72.35
						Column totals	72.35	0.00	0.00	0.00	0.00						





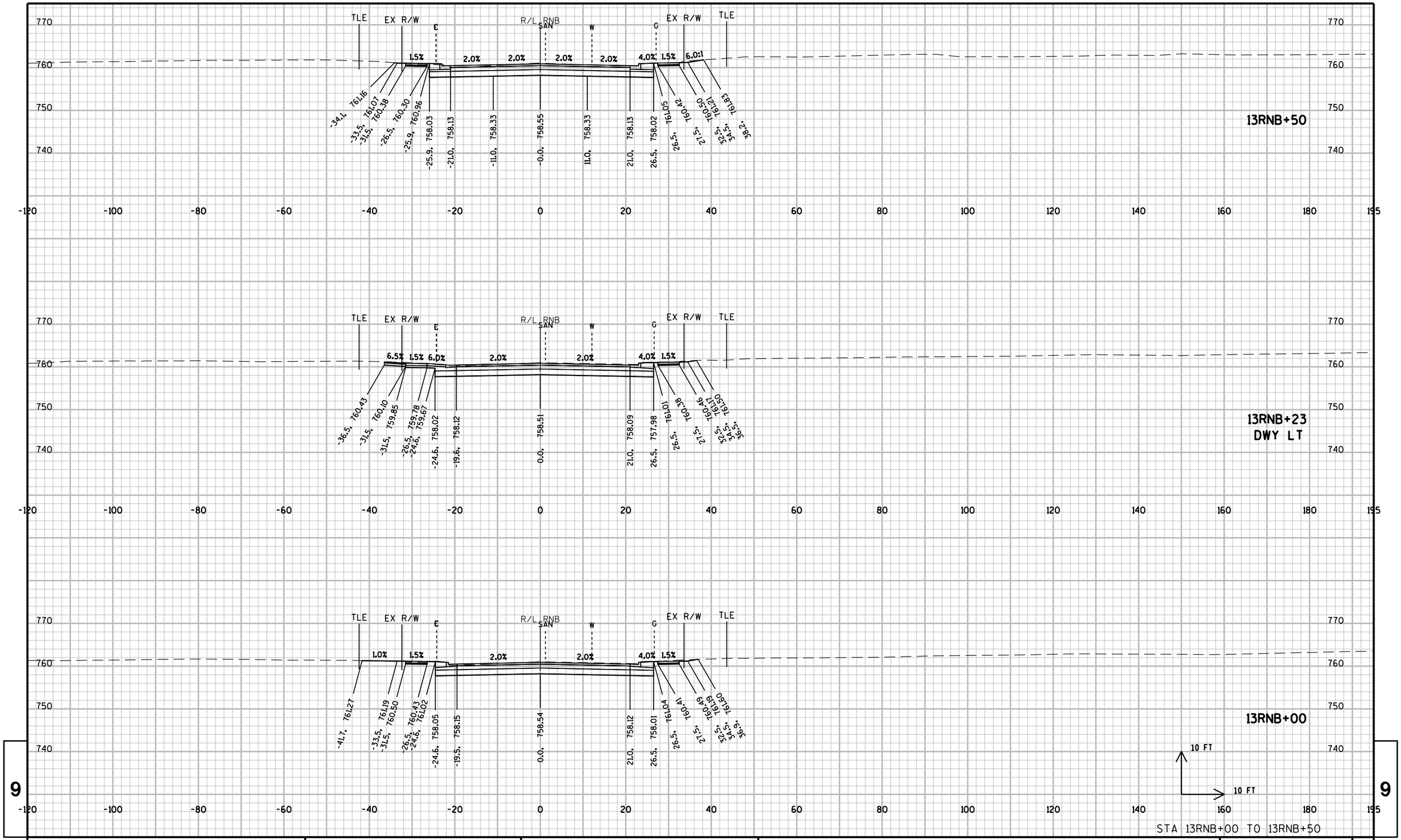
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PROJECT NO: 1517-75-76	HWY: USH 10	COUNTY: WINNEBAGO	CROSS SECTIONS: RACINE ROAD NB	SHEET	E

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WISDOT/CADDS SHEET 21

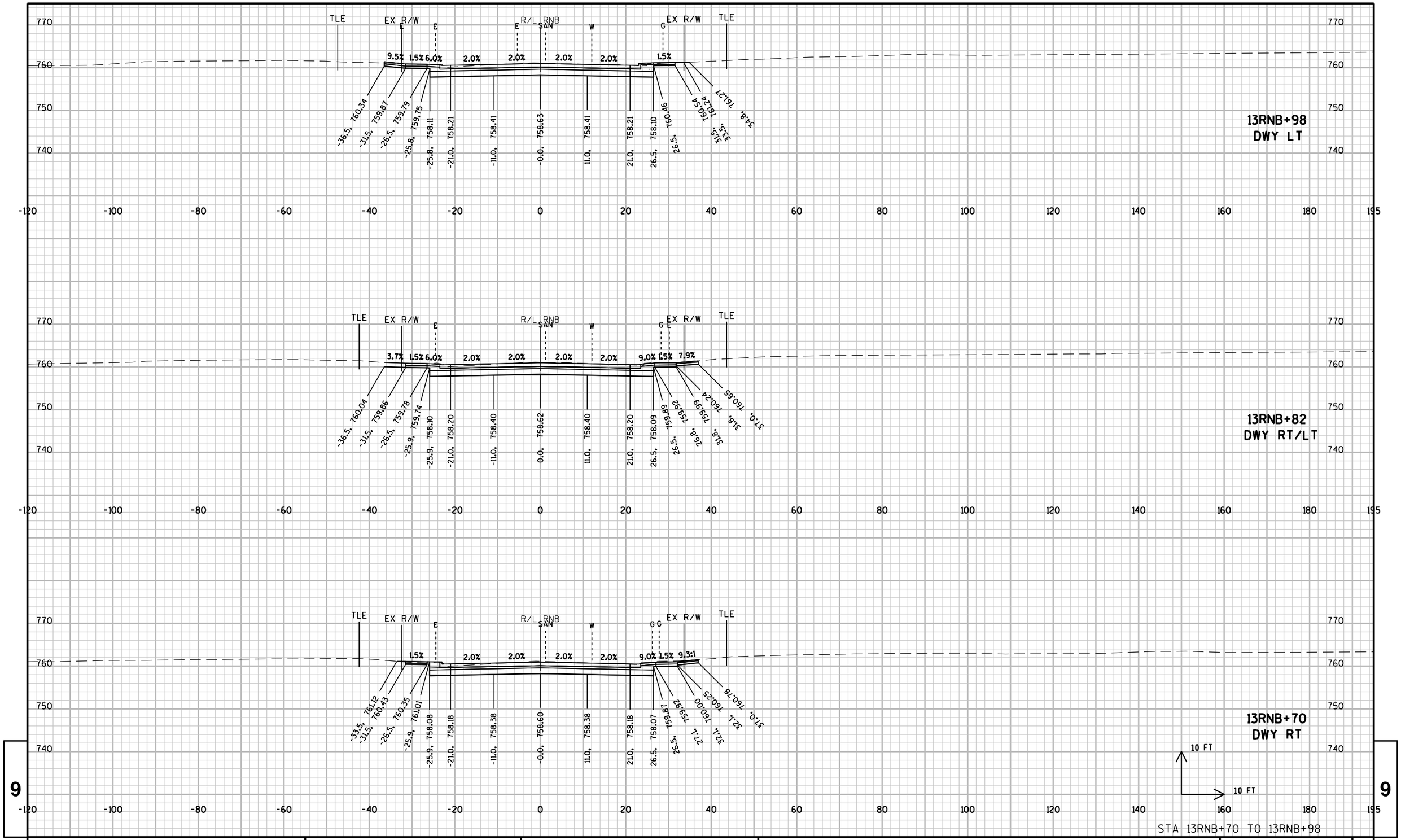


STA 13RNB+00 TO 13RNB+50

9

9

PROJECT NO: 1517-75-76	HWY: USH 10	COUNTY: WINNEBAGO	CROSS SECTIONS: RACINE ROAD NB	SHEET 352	E



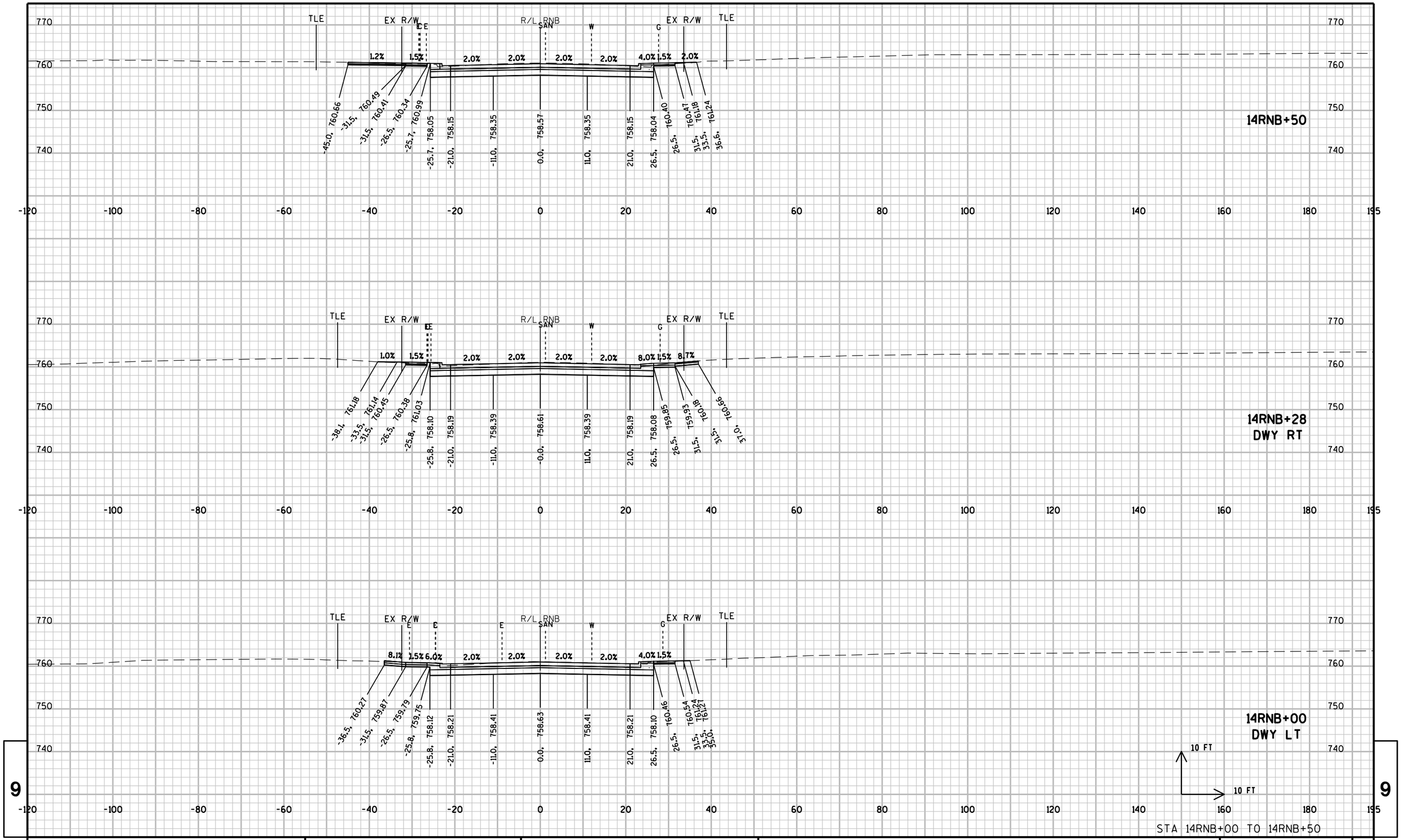
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PROJECT NO: 1517-75-76	HWY: USH 10	COUNTY: WINNEBAGO	CROSS SECTIONS: RACINE ROAD NB	SHEET	E

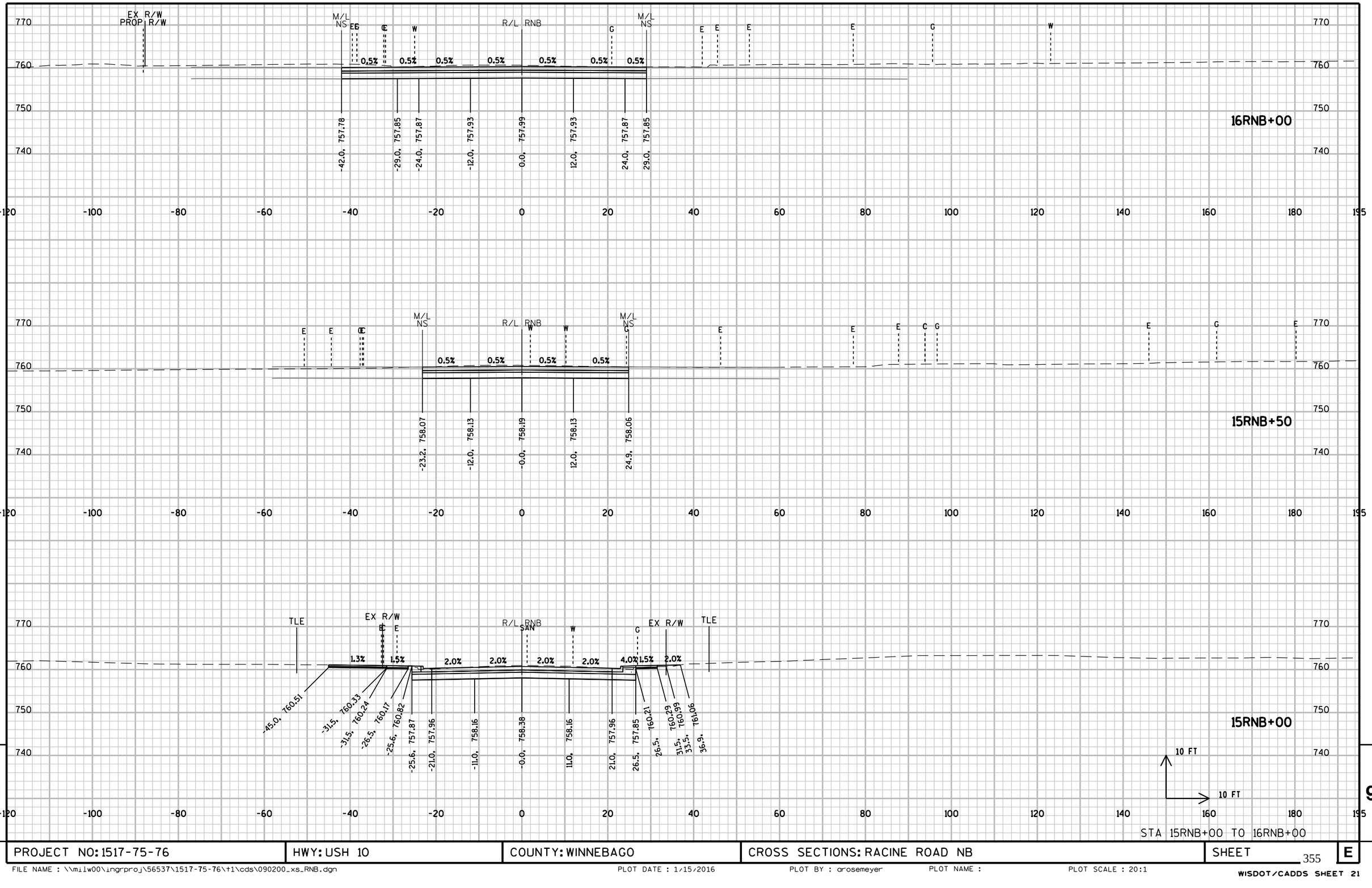
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WISDOT/CADDS SHEET 21



STA 14RNB+00 TO 14RNB+50

PROJECT NO: 1517-75-76	HWY: USH 10	COUNTY: WINNEBAGO	CROSS SECTIONS: RACINE ROAD NB	SHEET 354	E

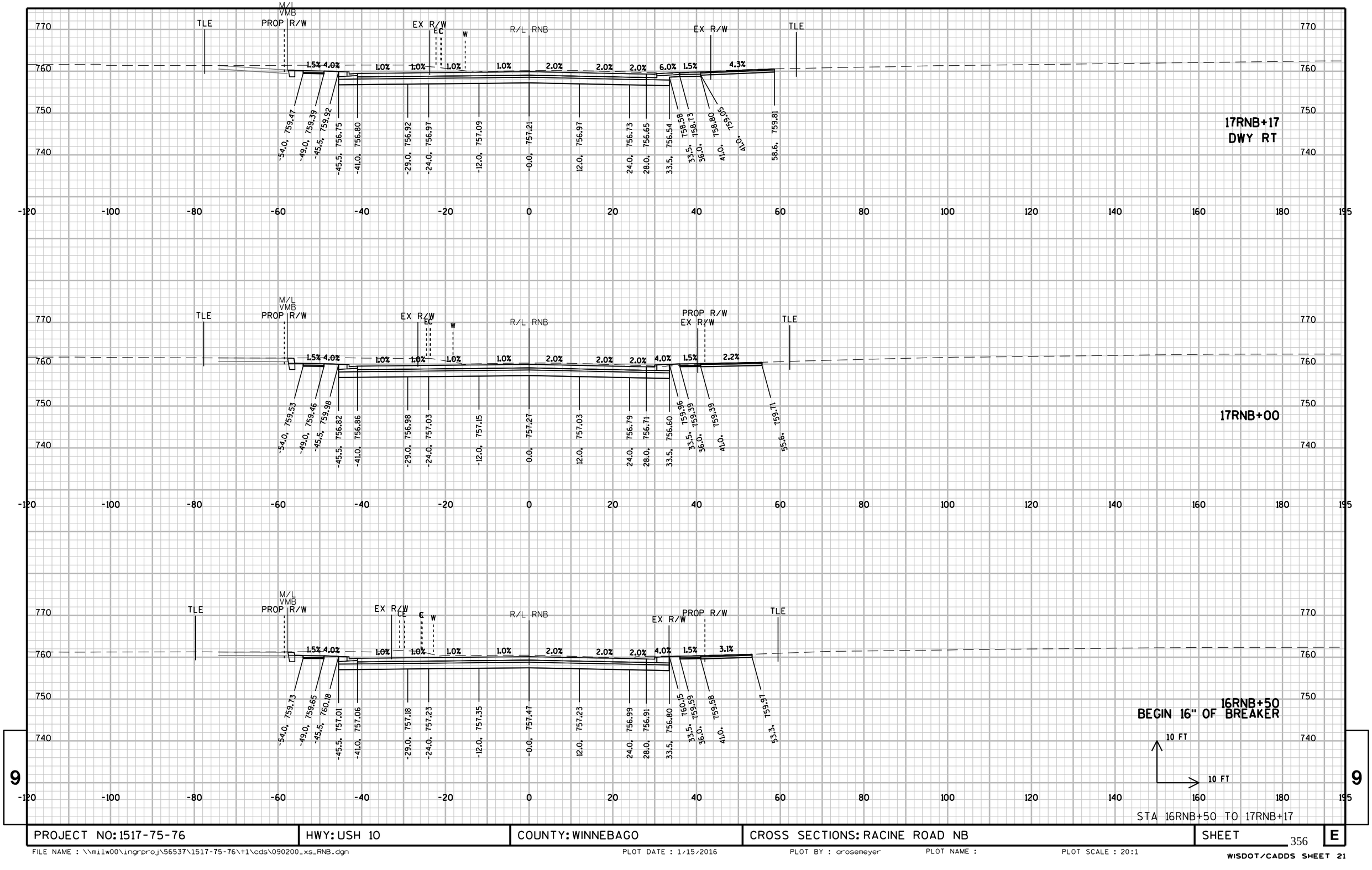


STA 15RNB+00 TO 16RNB+00

PROJECT NO: 1517-75-76	HWY: USH 10	COUNTY: WINNEBAGO	CROSS SECTIONS: RACINE ROAD NB	SHEET 355	E

FILE NAME : \\milw00\ingrproj\56537\1517-75-76\t1\cds\090200_xs_RNB.dgn PLOT DATE : 1/15/2016 PLOT BY : arosemeyer PLOT NAME : PLOT SCALE : 20:1

WISDOT/CADDS SHEET 21



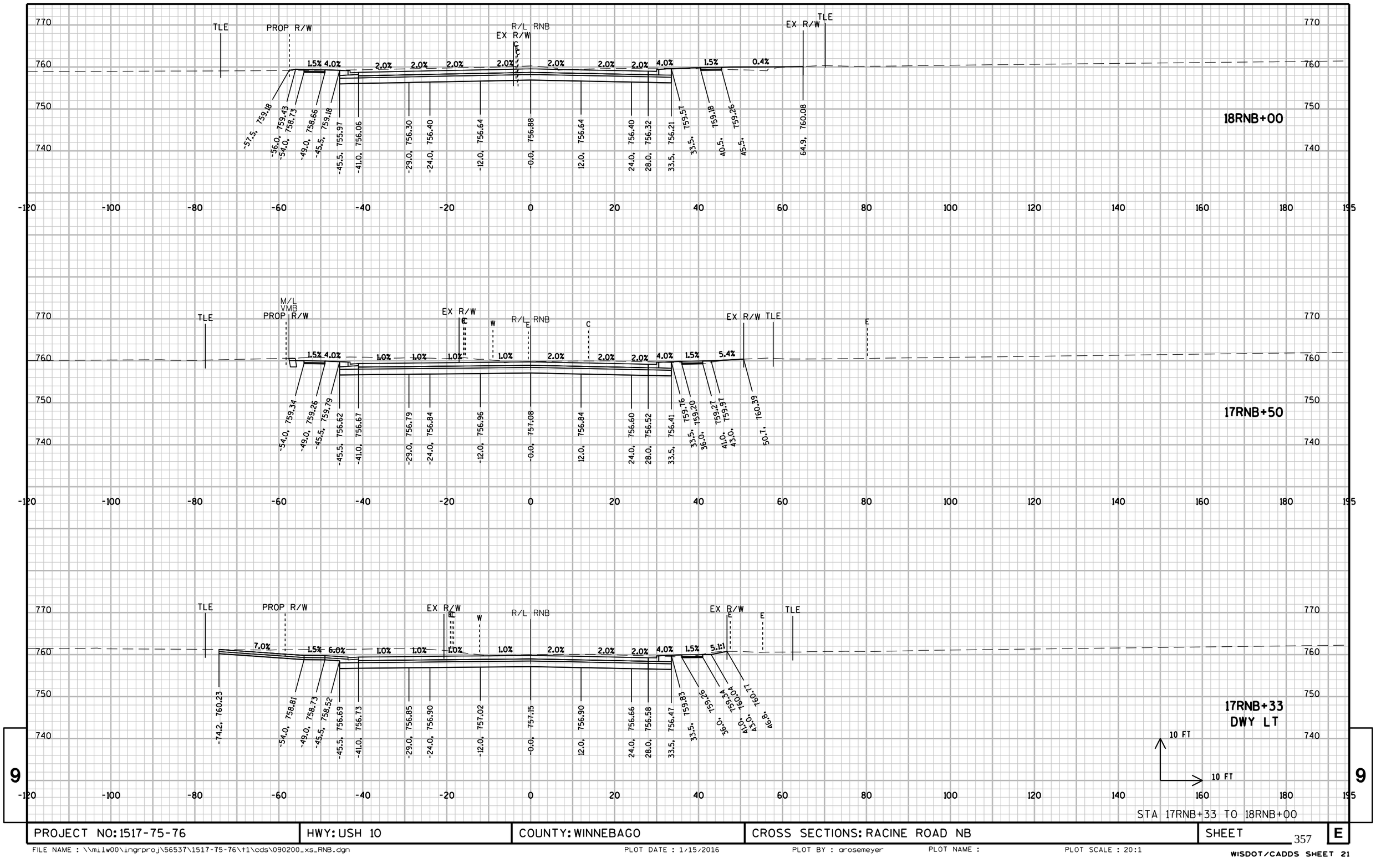
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PROJECT NO: 1517-75-76	HWY: USH 10	COUNTY: WINNEBAGO	CROSS SECTIONS: RACINE ROAD NB	SHEET 356	E

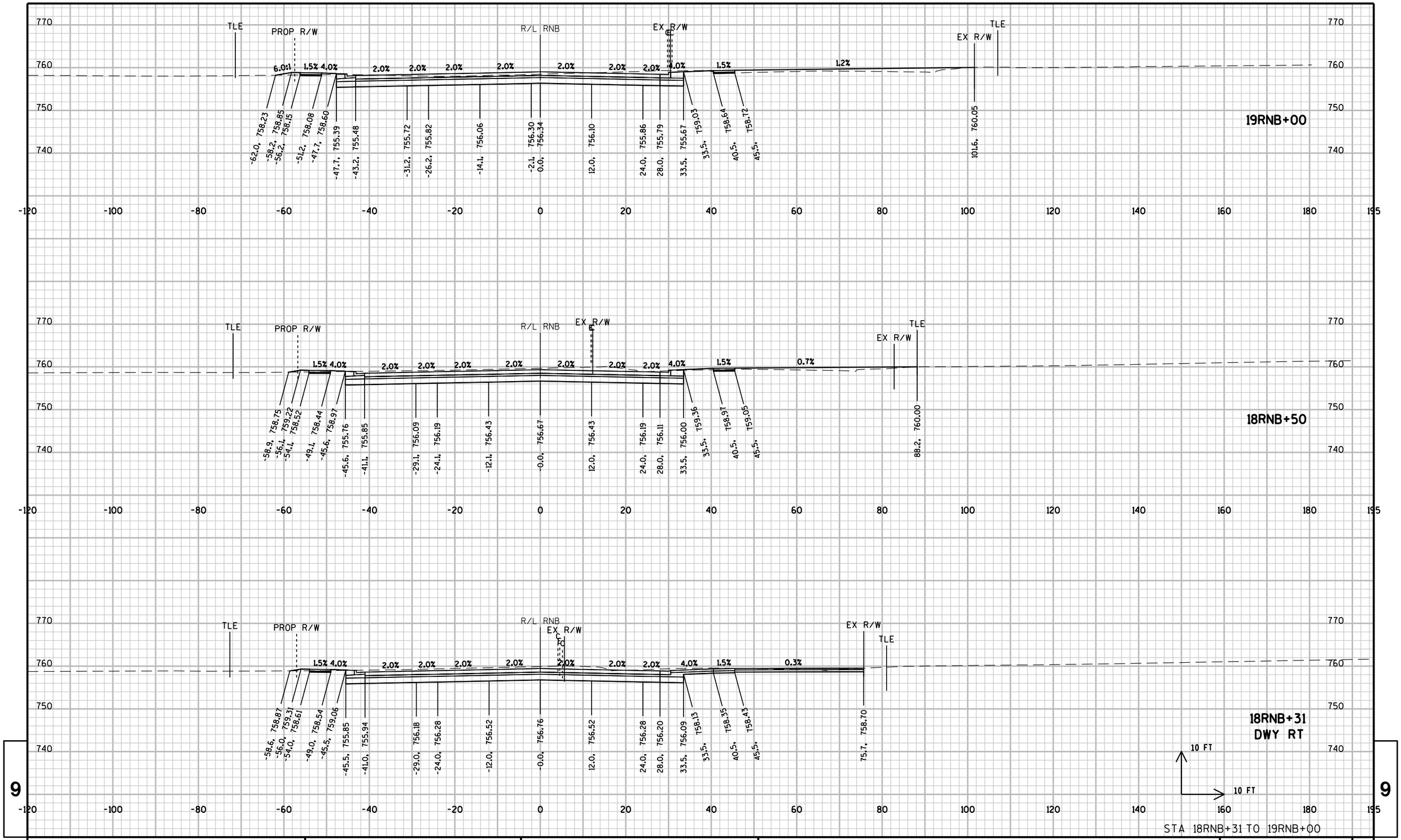
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WISDOT/CADDS SHEET 21



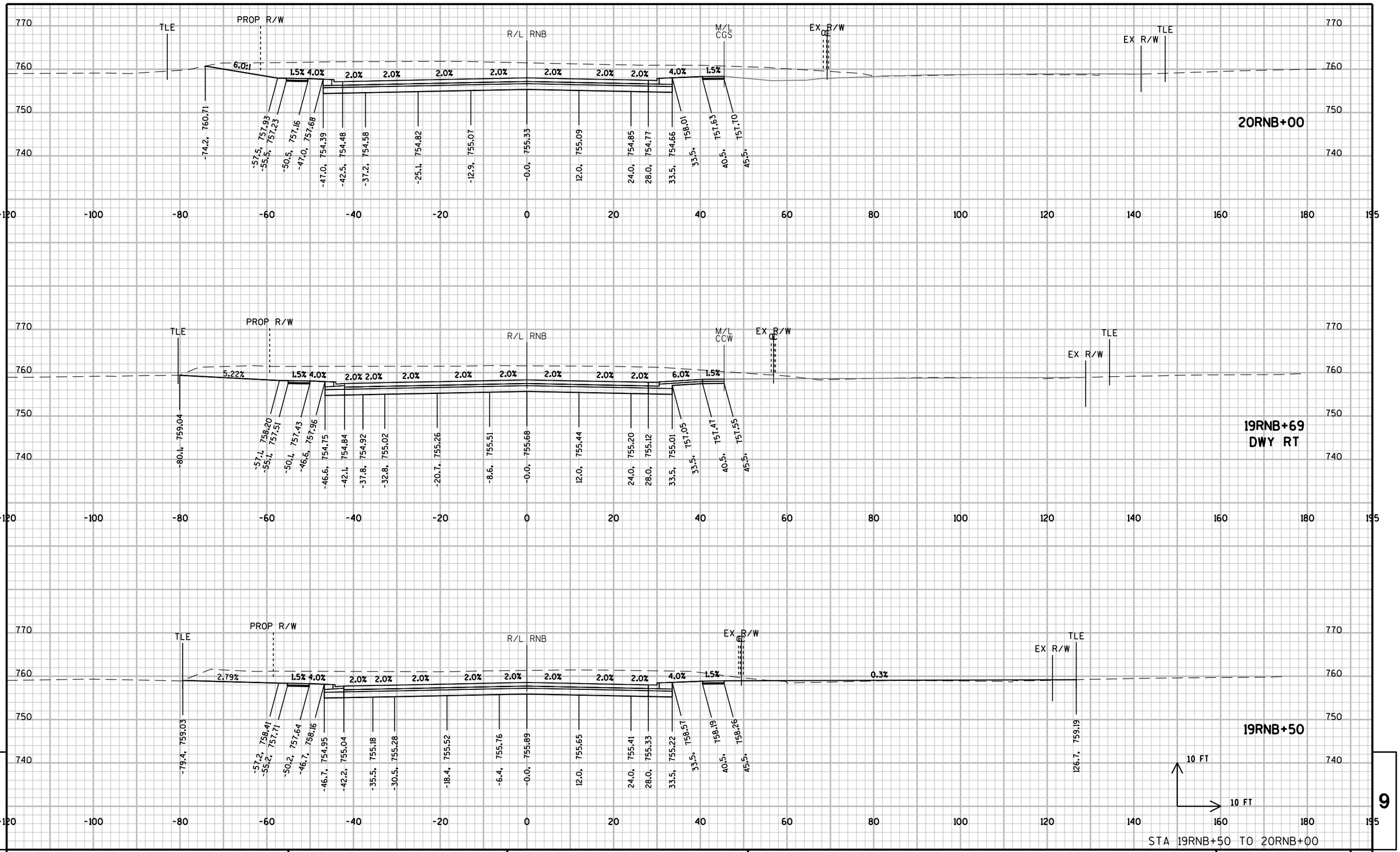
STA 17RNB+33 TO 18RNB+00

PROJECT NO: 1517-75-76	HWY: USH 10	COUNTY: WINNEBAGO	CROSS SECTIONS: RACINE ROAD NB	SHEET 357	E



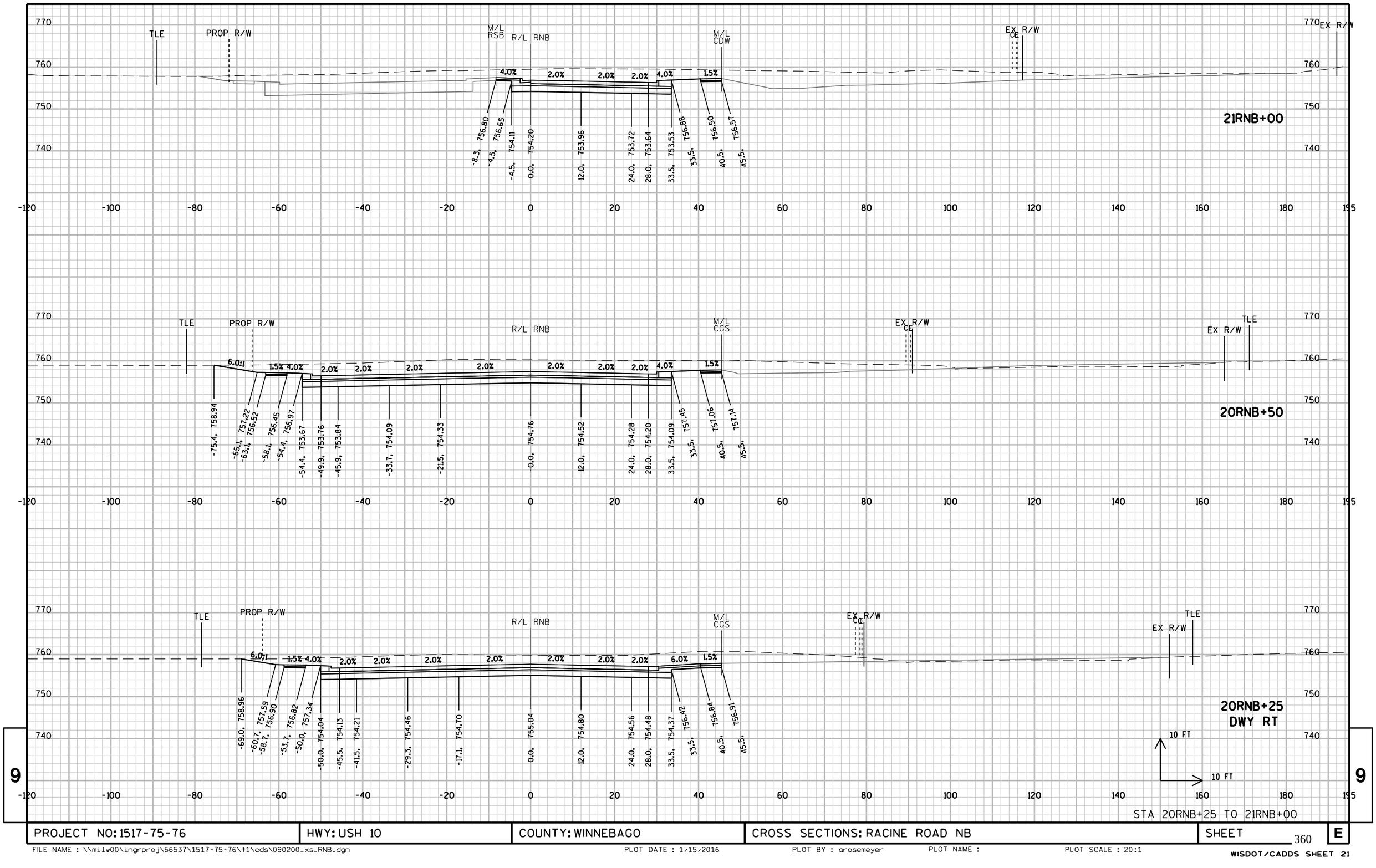
STA 18RNB+31 TO 19RNB+00

PROJECT NO: 1517-75-76	HWY: USH 10	COUNTY: WINNEBAGO	CROSS SECTIONS: RACINE ROAD NB	SHEET 358	E



STA 19RNB+50 TO 20RNB+00

PROJECT NO: 1517-75-76	HWY: USH 10	COUNTY: WINNEBAGO	CROSS SECTIONS: RACINE ROAD NB	SHEET 359	E



STA 20RNB+25 TO 21RNB+00

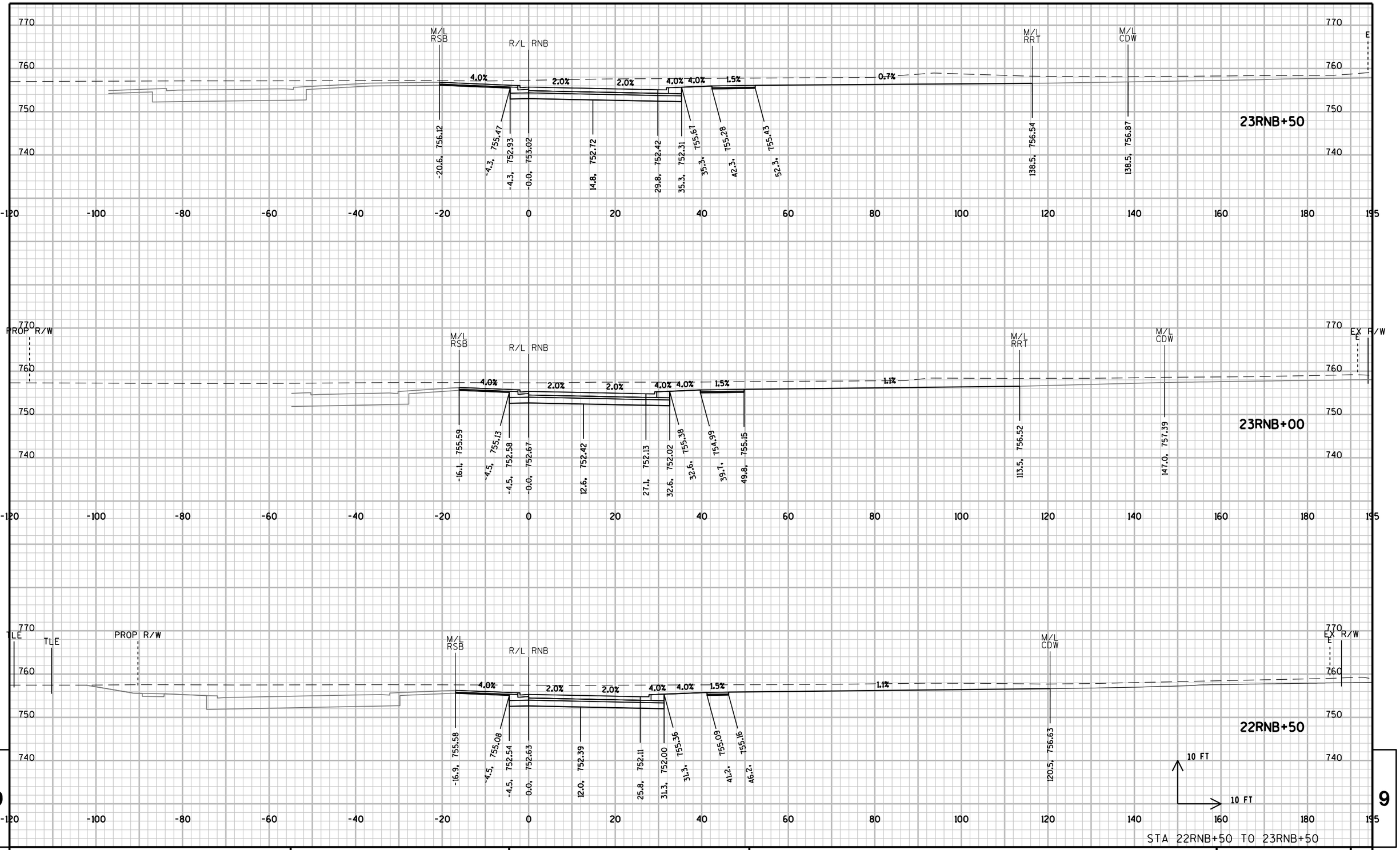
PROJECT NO: 1517-75-76	HWY: USH 10	COUNTY: WINNEBAGO	CROSS SECTIONS: RACINE ROAD NB	SHEET 360	E

STA 21RNB+50 TO 22RNB+00

PROJECT NO: 1517-75-76	HWY: USH 10	COUNTY: WINNEBAGO	CROSS SECTIONS: RACINE ROAD NB	SHEET E

FILE NAME : \\milw00\ingrproj\56537\1517-75-76\t1\cds\090200_xs_RNB.dgn PLOT DATE : 1/15/2016 PLOT BY : grosemeyer PLOT NAME : PLOT SCALE : 20:1

WISDOT/CADDS SHEET 21



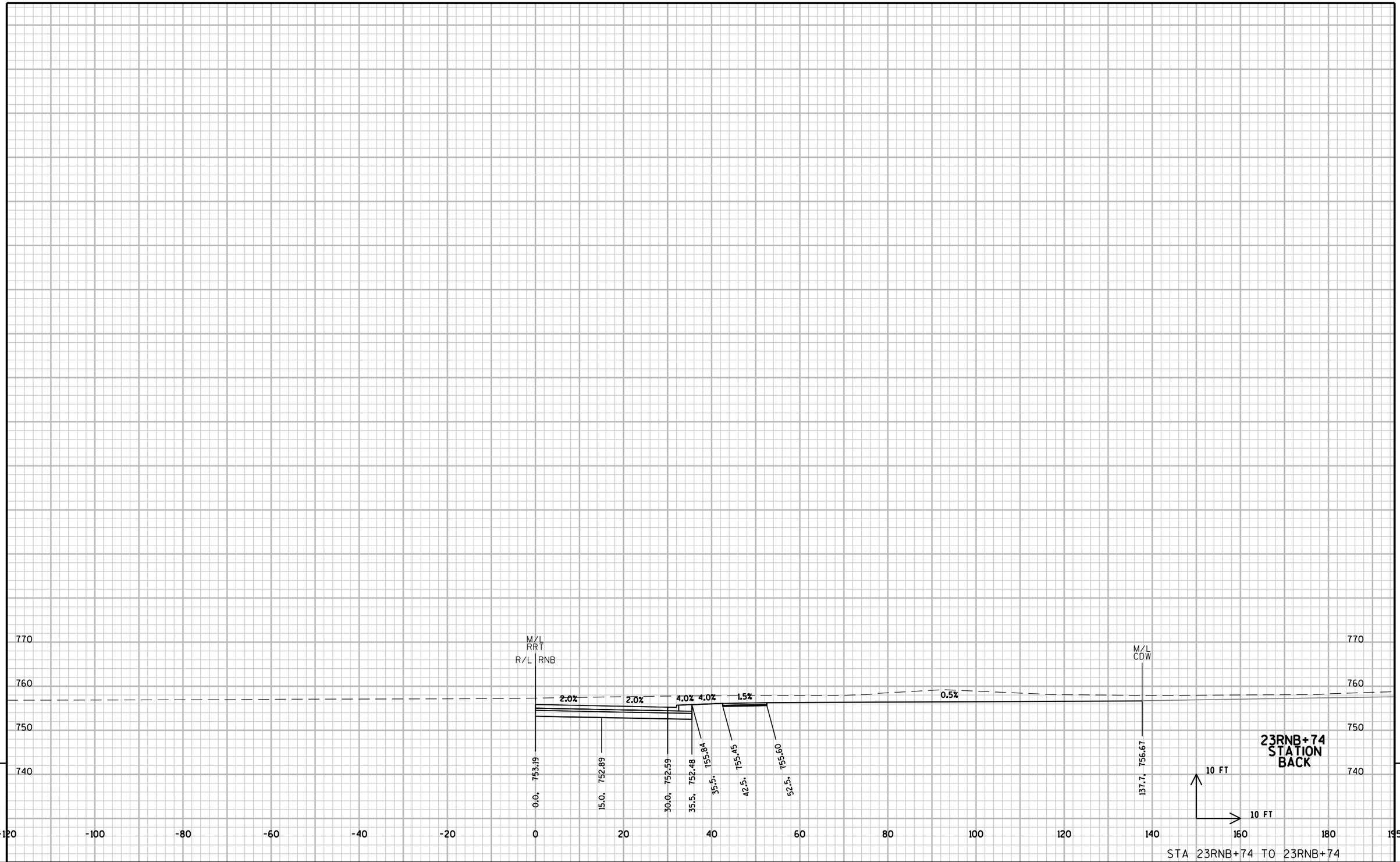
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STA 22RNB+50 TO 23RNB+50

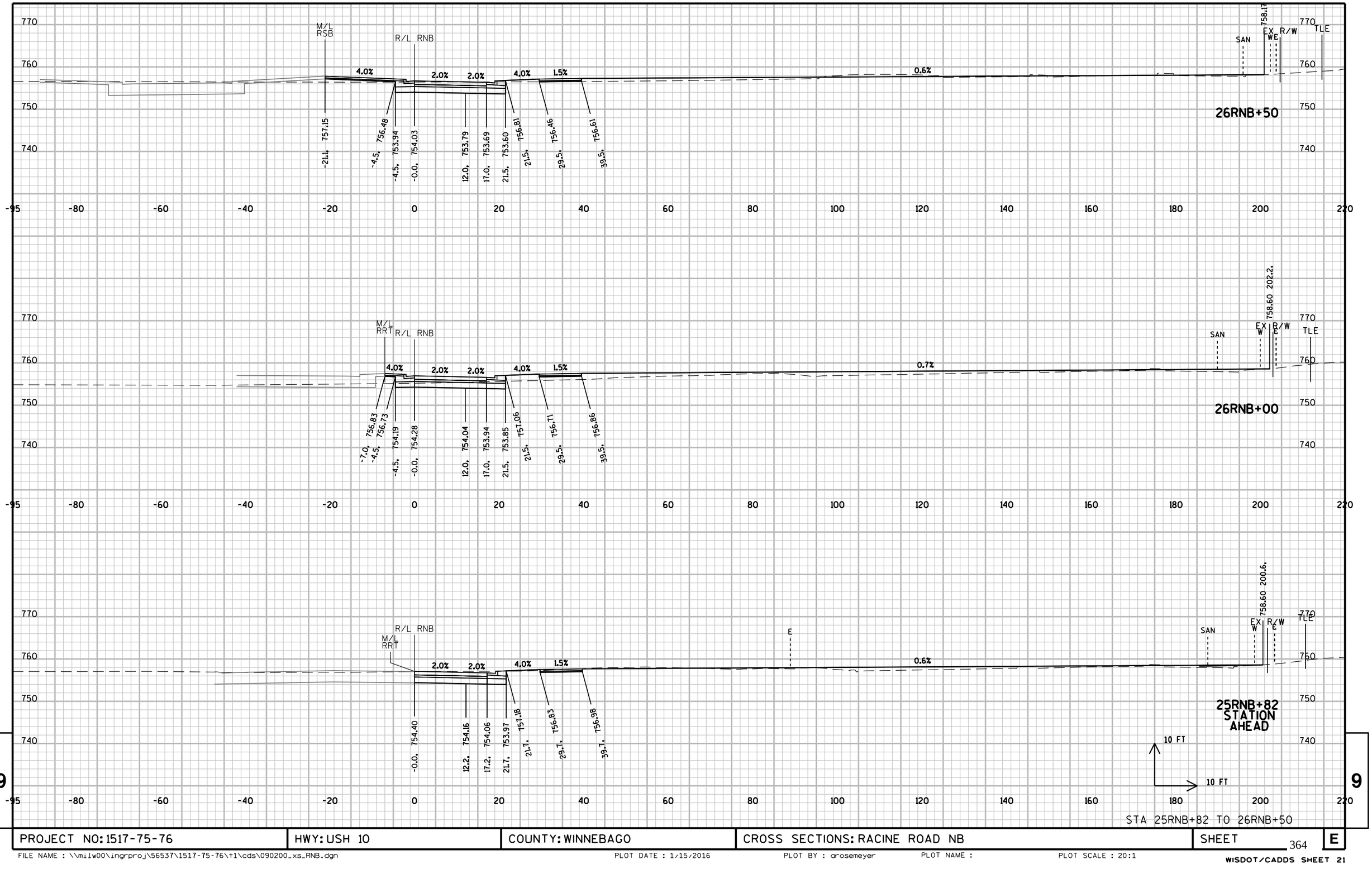
PROJECT NO: 1517-75-76	HWY: USH 10	COUNTY: WINNEBAGO	CROSS SECTIONS: RACINE ROAD NB	SHEET	E

FILE NAME : \\milw00\ingrproj\56537\1517-75-76\t1\cds\090200_xs_RNB.dgn
PLOT DATE : 1/15/2016
PLOT BY : arosemeyer
PLOT NAME :
PLOT SCALE : 20:1
WISDOT/CADDS SHEET 21



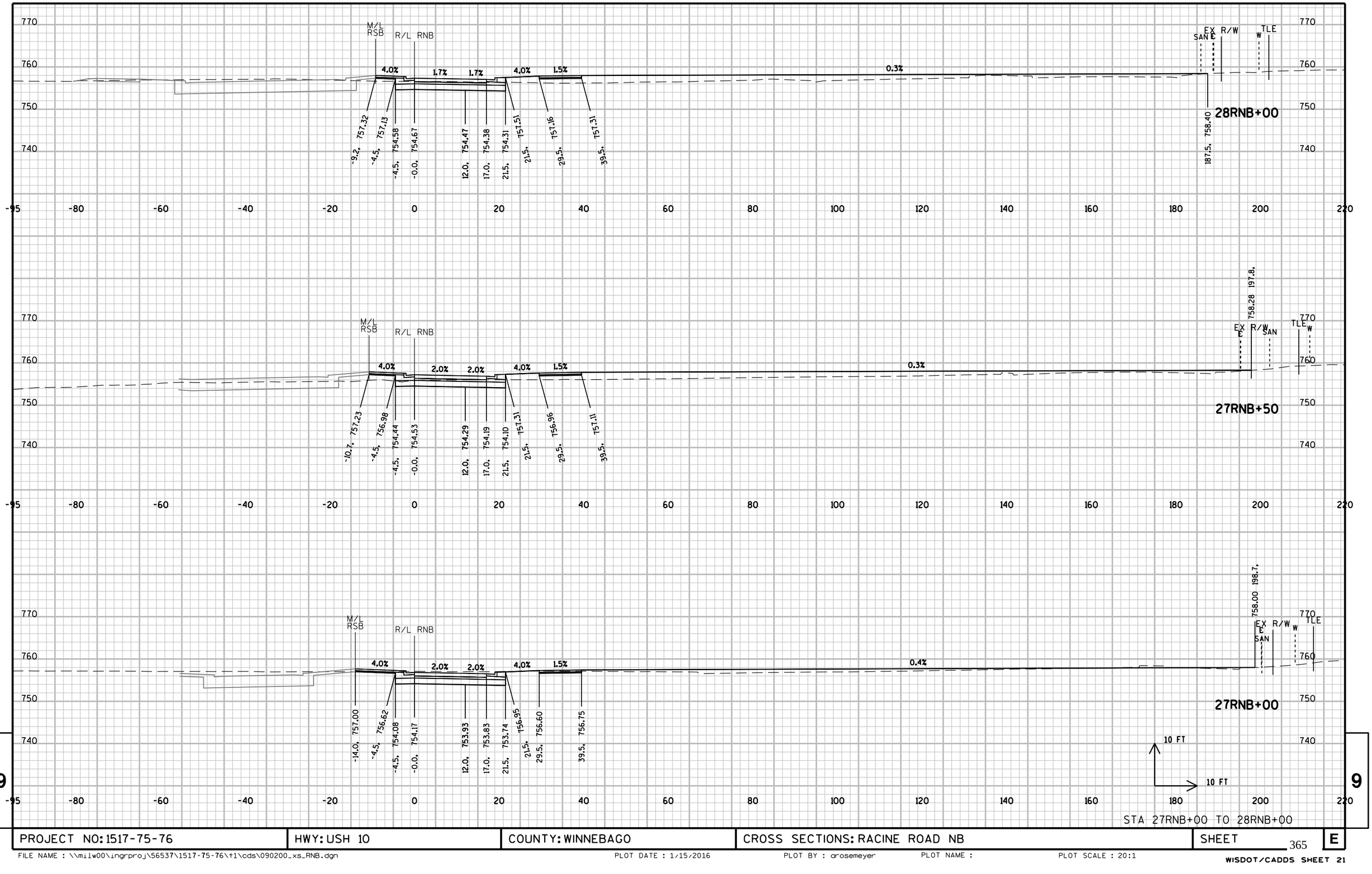
STA 23RNB+74 TO 23RNB+74

PROJECT NO: 1517-75-76	HWY: USH 10	COUNTY: WINNEBAGO	CROSS SECTIONS: RACINE ROAD NB	SHEET 363	E



STA 25RNB+82 TO 26RNB+50

PROJECT NO: 1517-75-76	HWY: USH 10	COUNTY: WINNEBAGO	CROSS SECTIONS: RACINE ROAD NB	SHEET 364	E

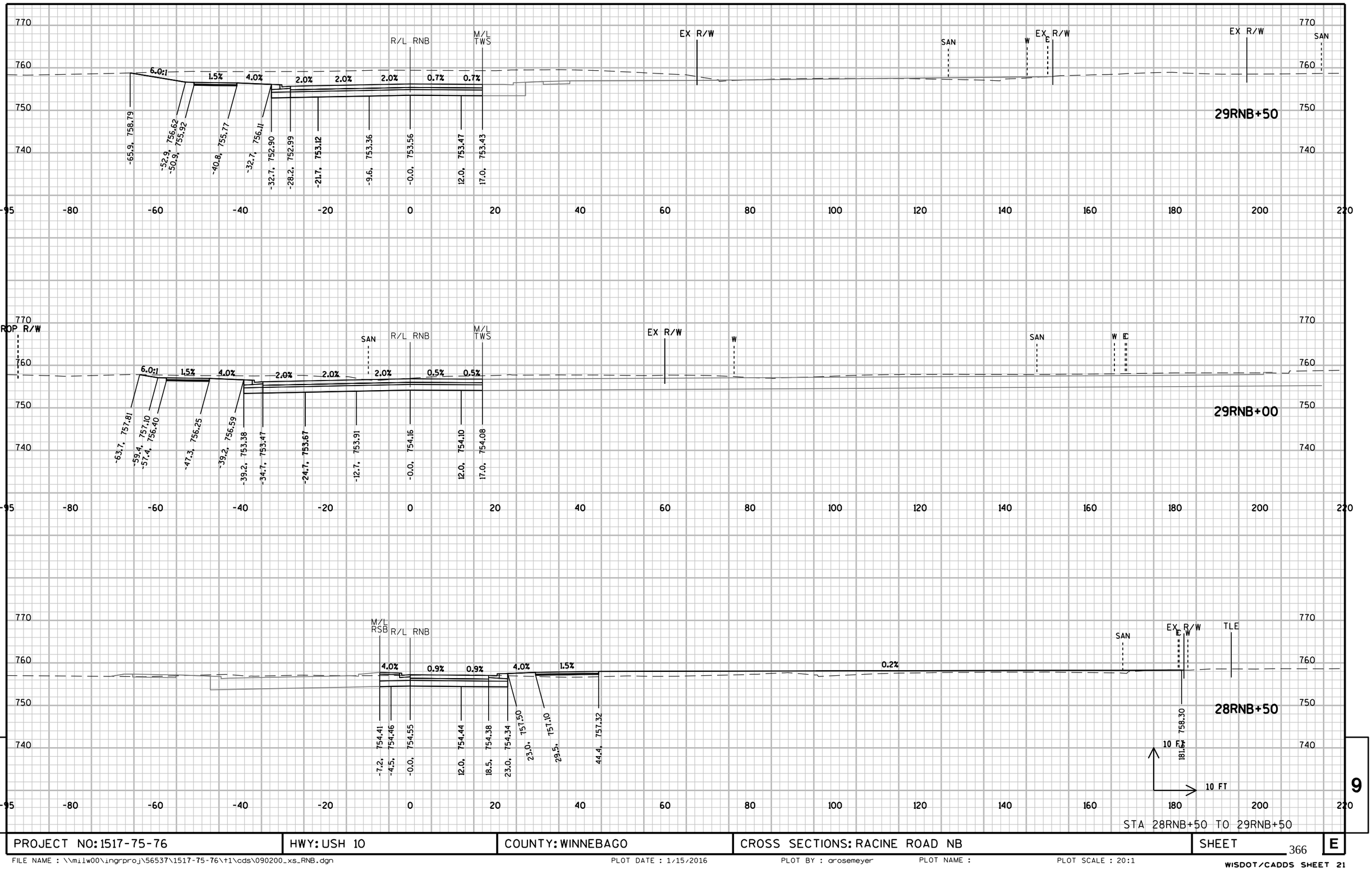


STA 27RNB+00 TO 28RNB+00

PROJECT NO: 1517-75-76	HWY: USH 10	COUNTY: WINNEBAGO	CROSS SECTIONS: RACINE ROAD NB	SHEET 365	E

FILE NAME : \\milw00\ingrproj\56537\1517-75-76\t1\cds\090200_xs_RNB.dgn PLOT DATE : 1/15/2016 PLOT BY : grosemeyer PLOT NAME : PLOT SCALE : 20:1

WISDOT/CADDS SHEET 21

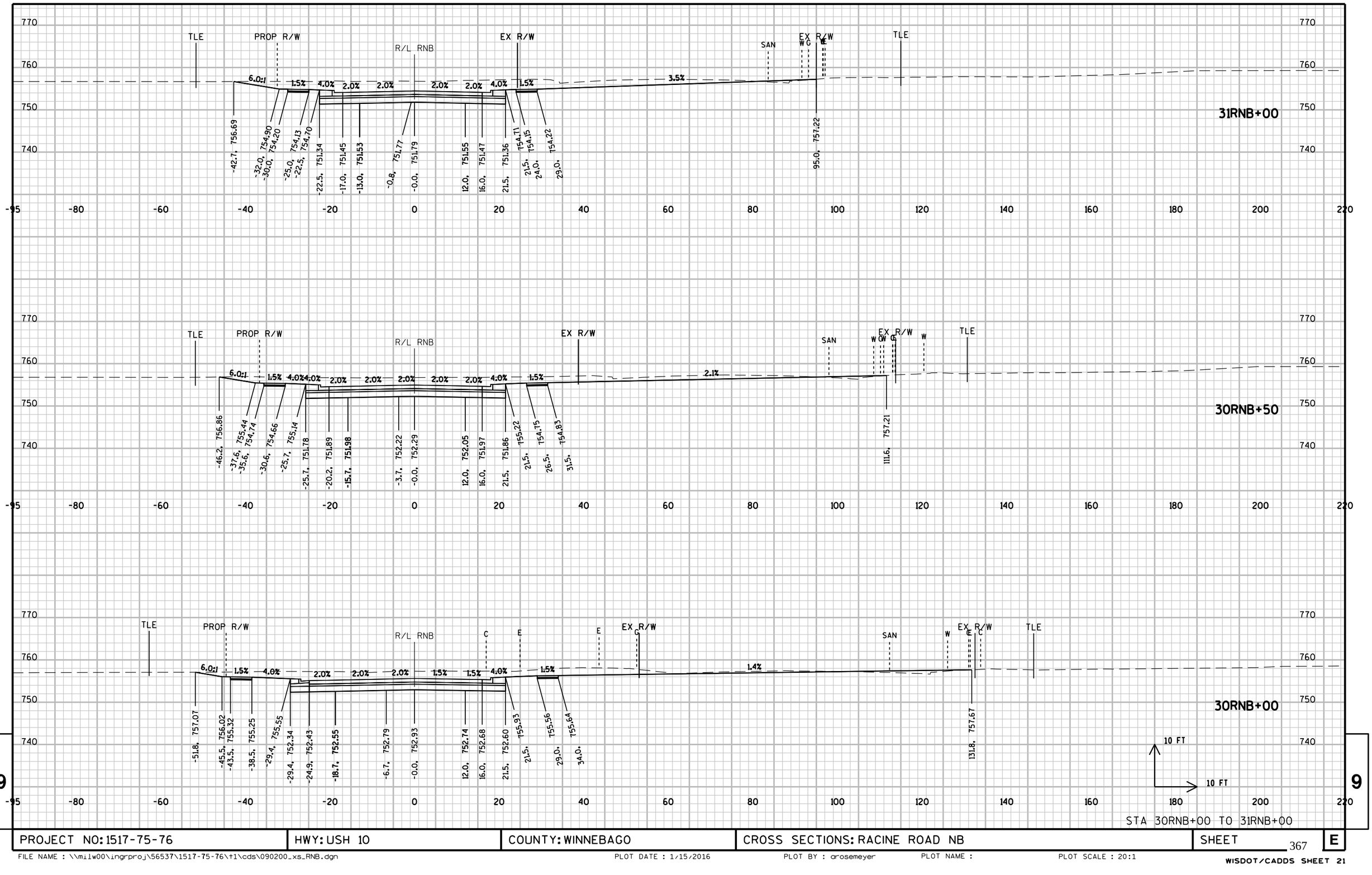


STA 28RNB+50 TO 29RNB+50

PROJECT NO: 1517-75-76	HWY: USH 10	COUNTY: WINNEBAGO	CROSS SECTIONS: RACINE ROAD NB	SHEET E

FILE NAME : \\milw00\ingrproj\56537\1517-75-76\t1\cds\090200_xs_RNB.dgn PLOT DATE : 1/15/2016 PLOT BY : grosemeyer PLOT NAME : PLOT SCALE : 20:1

WISDOT/CADDS SHEET 21



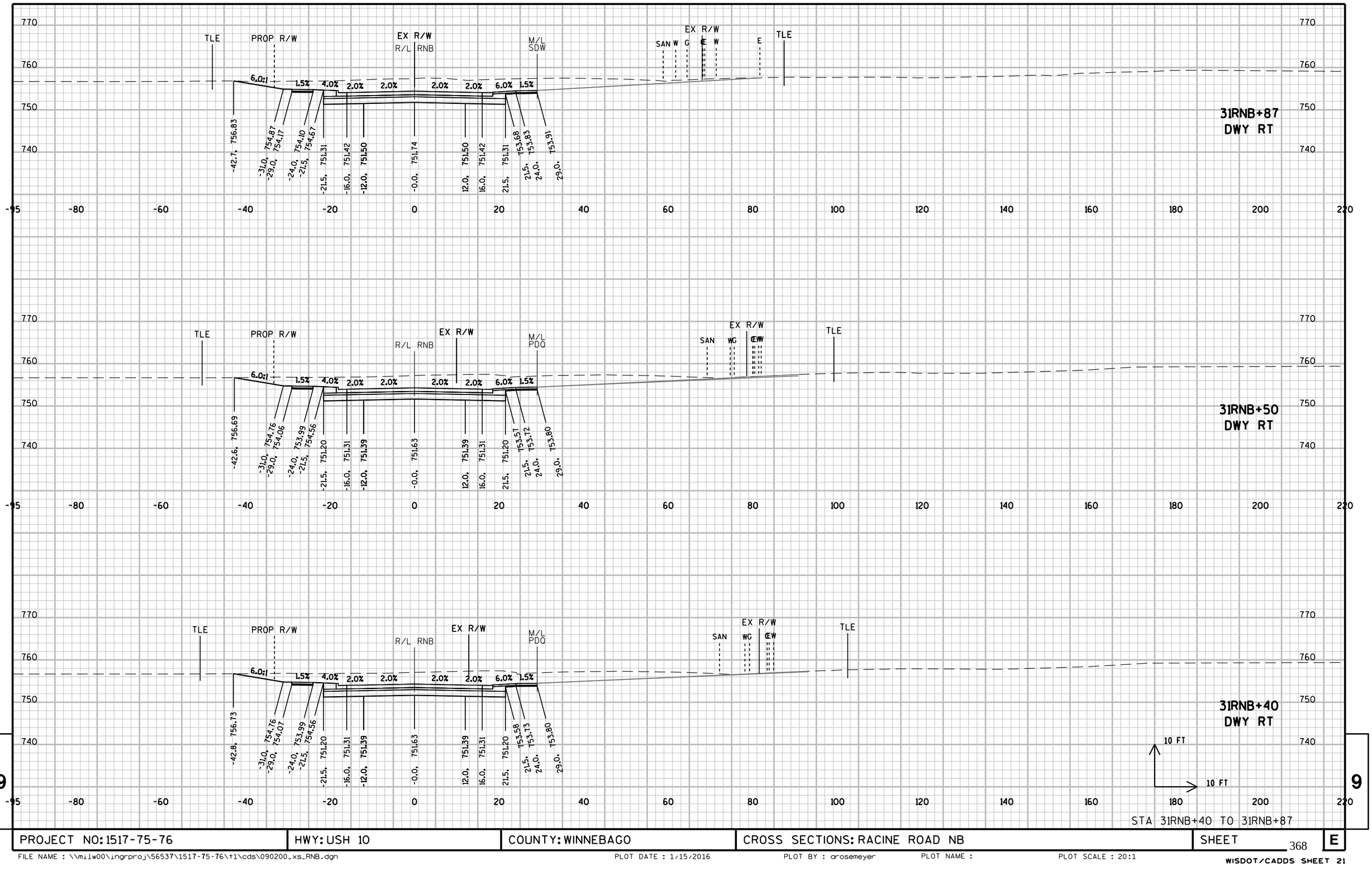
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PROJECT NO: 1517-75-76	HWY: USH 10	COUNTY: WINNEBAGO	CROSS SECTIONS: RACINE ROAD NB	SHEET 367	E

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FILE NAME : \\milw00\ingrproj\56537\1517-75-76\t1\cds\090200_xs_RNB.dgn PLOT DATE : 1/15/2016 PLOT BY : arosemeyer PLOT NAME : PLOT SCALE : 20:1

WISDOT/CADDS SHEET 21

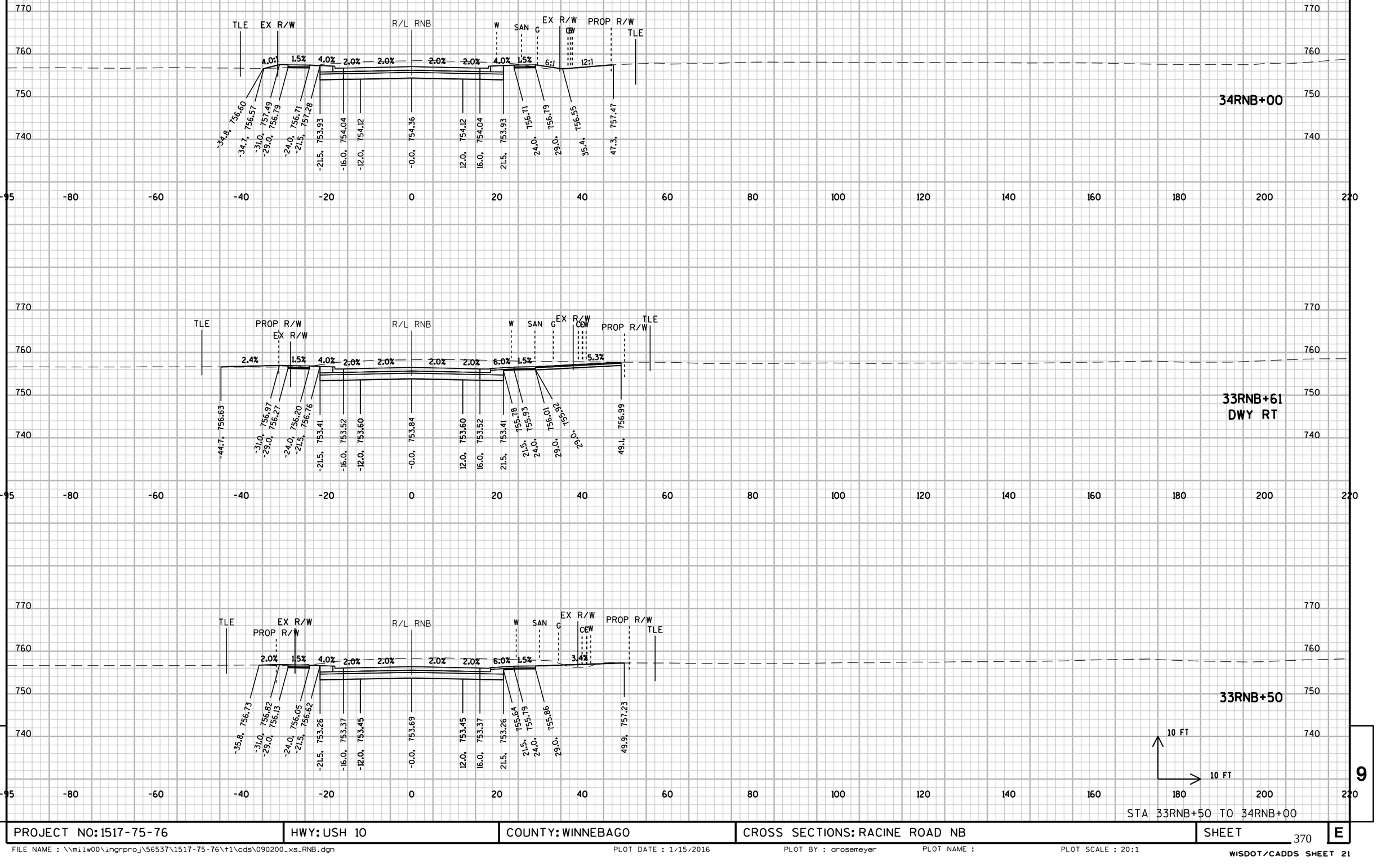


STA 31RNB+40 TO 31RNB+87

PROJECT NO: 1517-75-76	HWY: USH 10	COUNTY: WINNEBAGO	CROSS SECTIONS: RACINE ROAD NB	SHEET 368	E

STA 32RNB+00 TO 33RNB+00

PROJECT NO: 1517-75-76	HWY: USH 10	COUNTY: WINNEBAGO	CROSS SECTIONS: RACINE ROAD NB	SHEET 369	E



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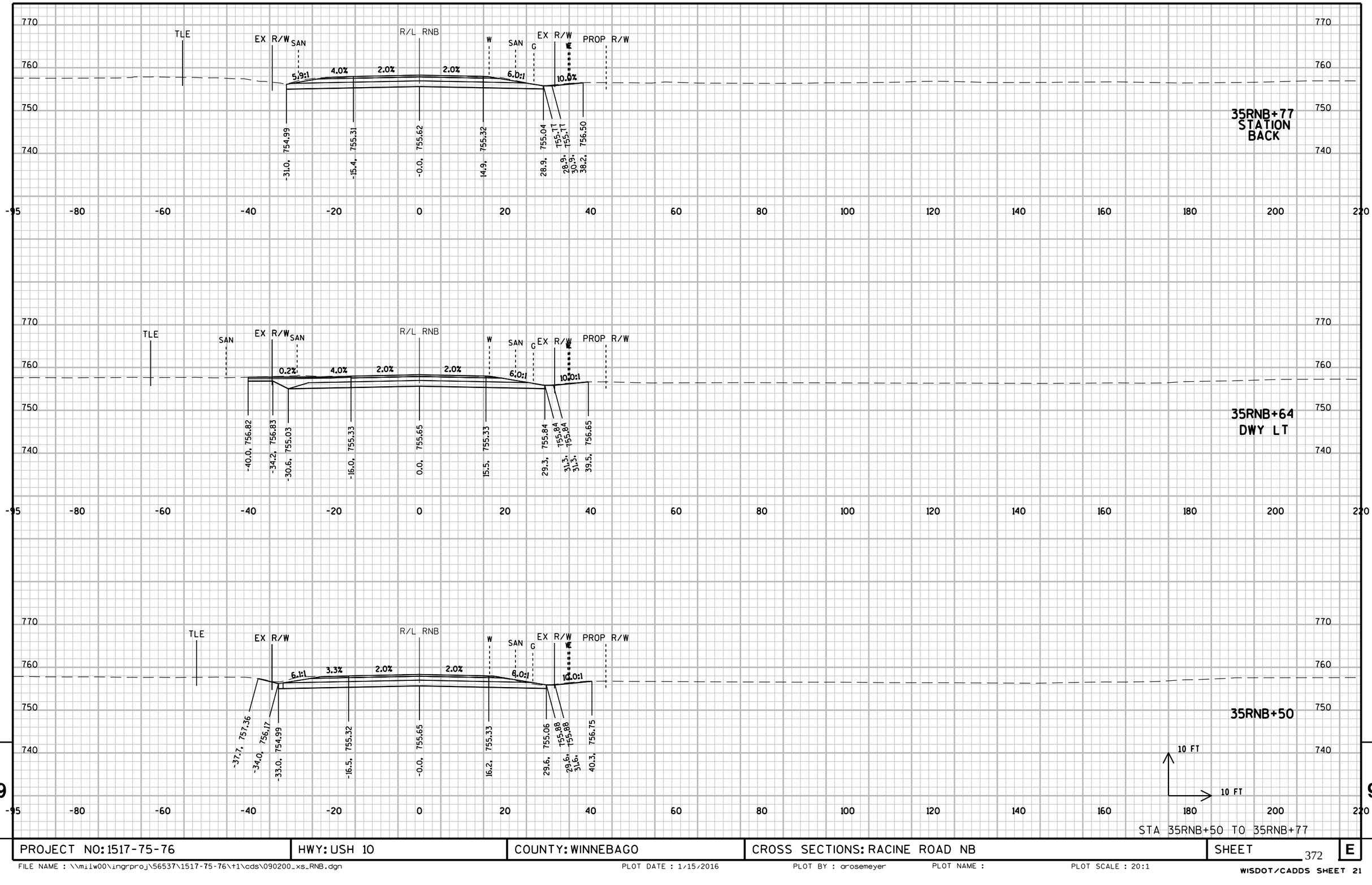
STA 33RNB+50 TO 34RNB+00

PROJECT NO: 1517-75-76	HWY: USH 10	COUNTY: WINNEBAGO	CROSS SECTIONS: RACINE ROAD NB	SHEET 370	E

STA 34RNB+18 TO 35RNB+00

PROJECT NO: 1517-75-76	HWY: USH 10	COUNTY: WINNEBAGO	CROSS SECTIONS: RACINE ROAD NB	SHEET	E

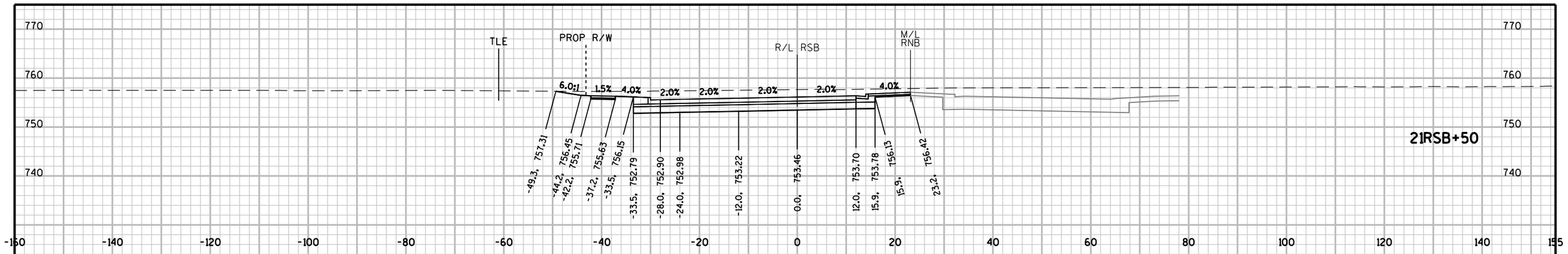
FILE NAME : \\milw00\ingrproj\56537\1517-75-76\t1\cds\090200_xs_RNB.dgn
PLOT DATE : 1/15/2016
PLOT BY : arosemeyer
PLOT NAME :
PLOT SCALE : 20:1
WISDOT/CADDS SHEET 21

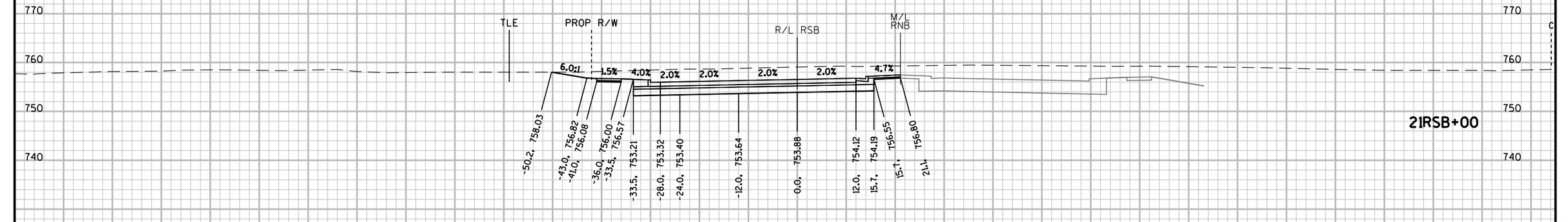


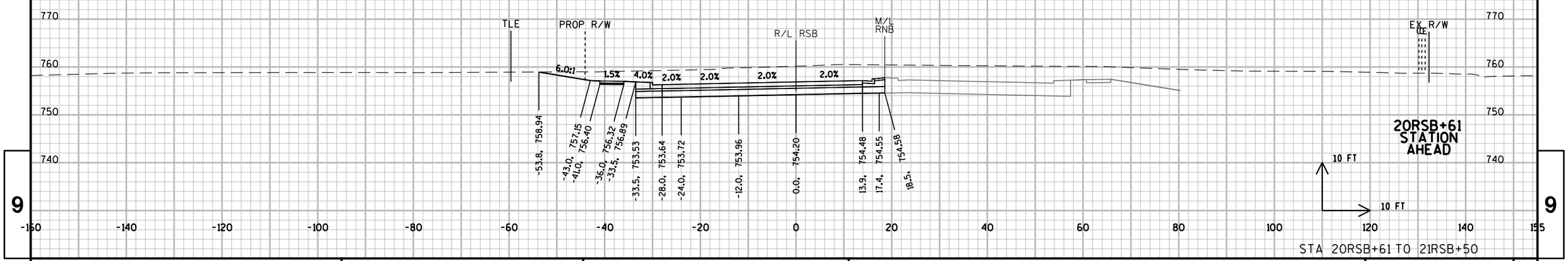
PROJECT NO: 1517-75-76	HWY: USH 10	COUNTY: WINNEBAGO	CROSS SECTIONS: RACINE ROAD NB	SHEET	E

FILE NAME : \\milw00\ingrproj\56537\1517-75-76\t1\cds\090200_xs_RNB.dgn PLOT DATE : 1/15/2016 PLOT BY : arosemeyer PLOT NAME : PLOT SCALE : 20:1

WISDOT/CADDS SHEET 21





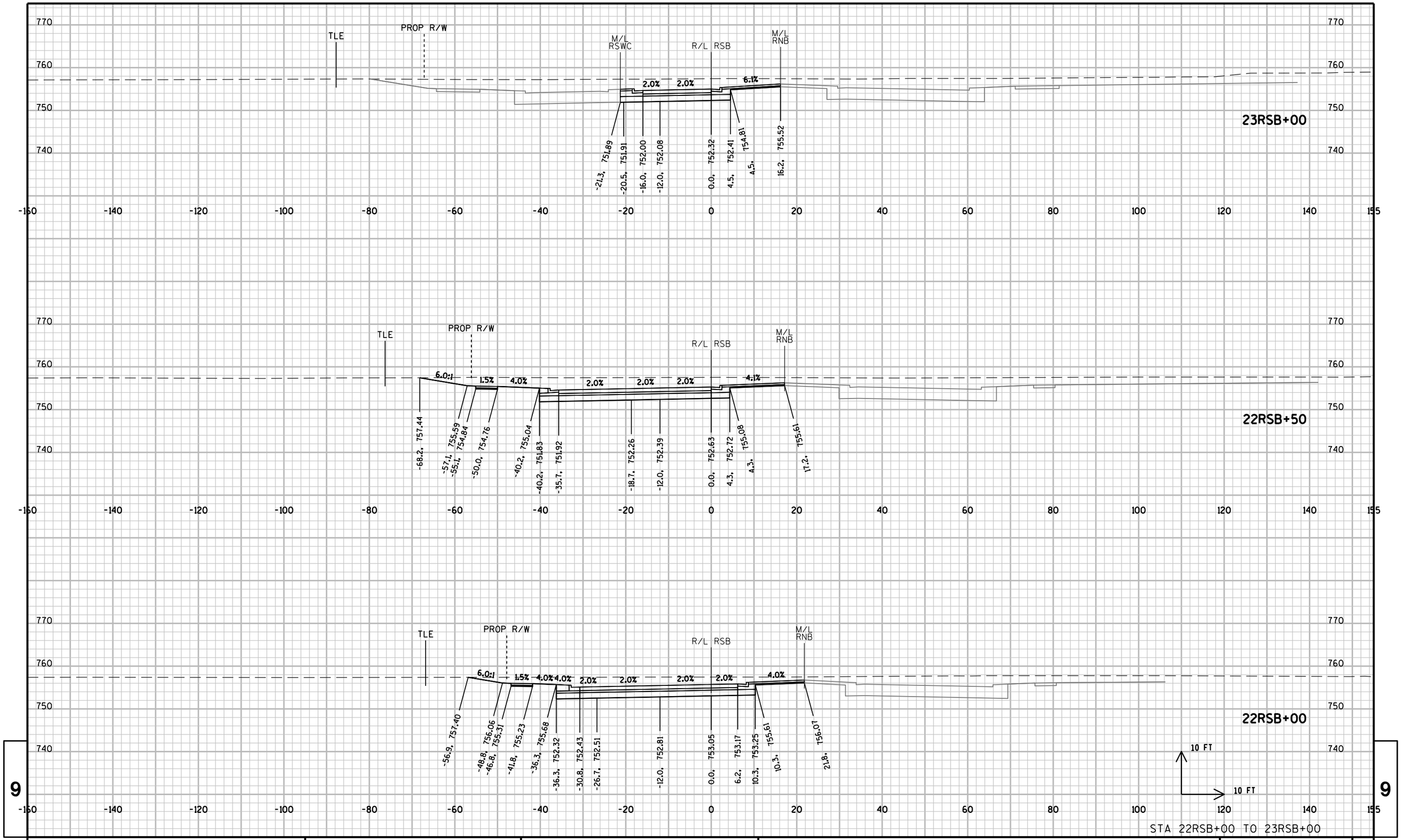


STA 20RSB+61 TO 21RSB+50

PROJECT NO: 1517-75-76	HWY: USH 10	COUNTY: WINNEBAGO	CROSS SECTIONS: RACINE ROAD SB	SHEET 373	E

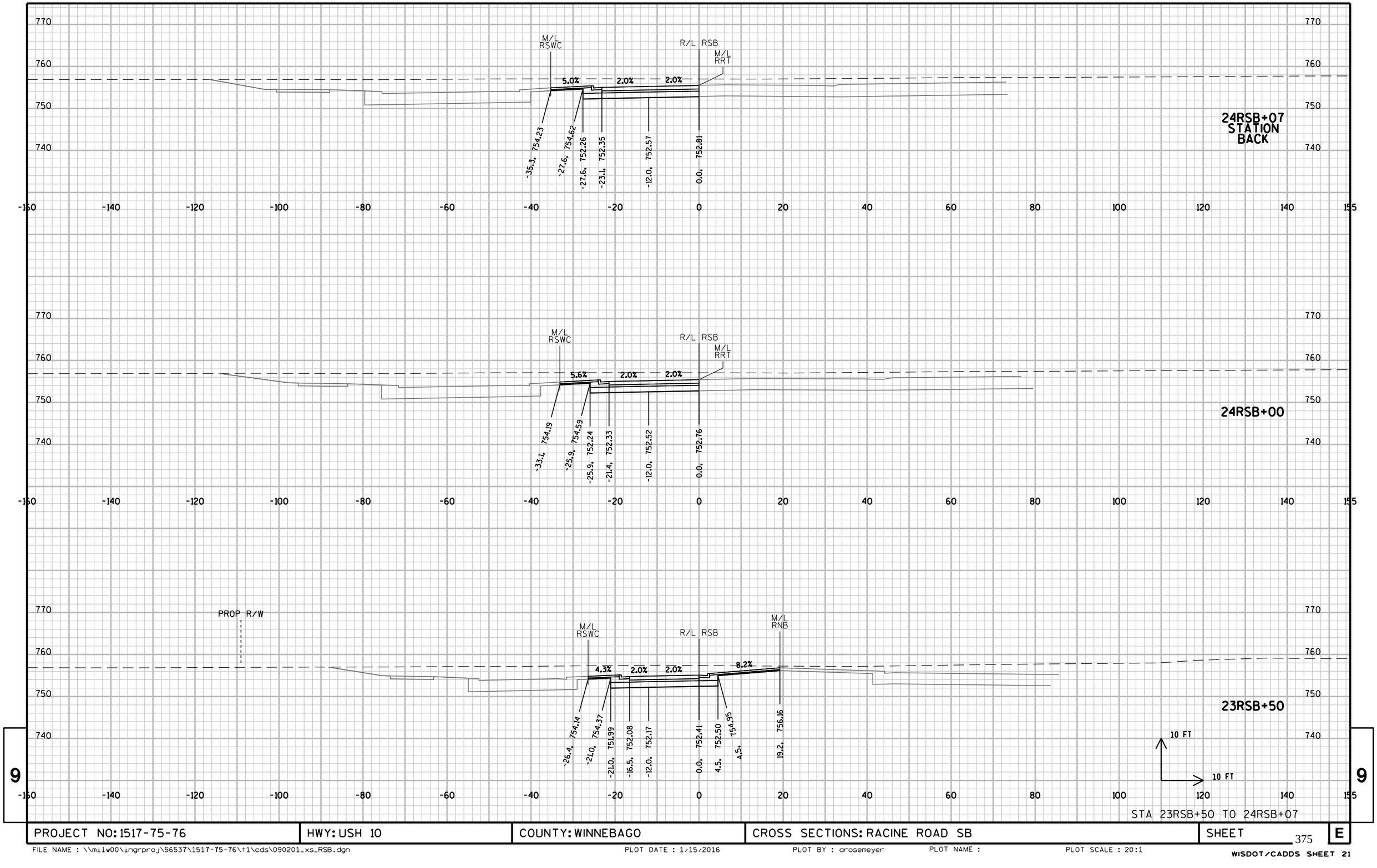
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WISDOT/CADDS SHEET 21



STA 22RSB+00 TO 23RSB+00

PROJECT NO: 1517-75-76	HWY: USH 10	COUNTY: WINNEBAGO	CROSS SECTIONS: RACINE ROAD SB	SHEET 374	E



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PROJECT NO: 1517-75-76	HWY: USH 10	COUNTY: WINNEBAGO	CROSS SECTIONS: RACINE ROAD SB	SHEET 375	E

FILE NAME : \\milw00\ingrproj\56537\1517-75-76\t1\cds\090201_xs_RSB.dgn PLOT DATE : 1/15/2016 PLOT BY : grosemeyer PLOT NAME : PLOT SCALE : 20:1

WISDOT/CADDS SHEET 21

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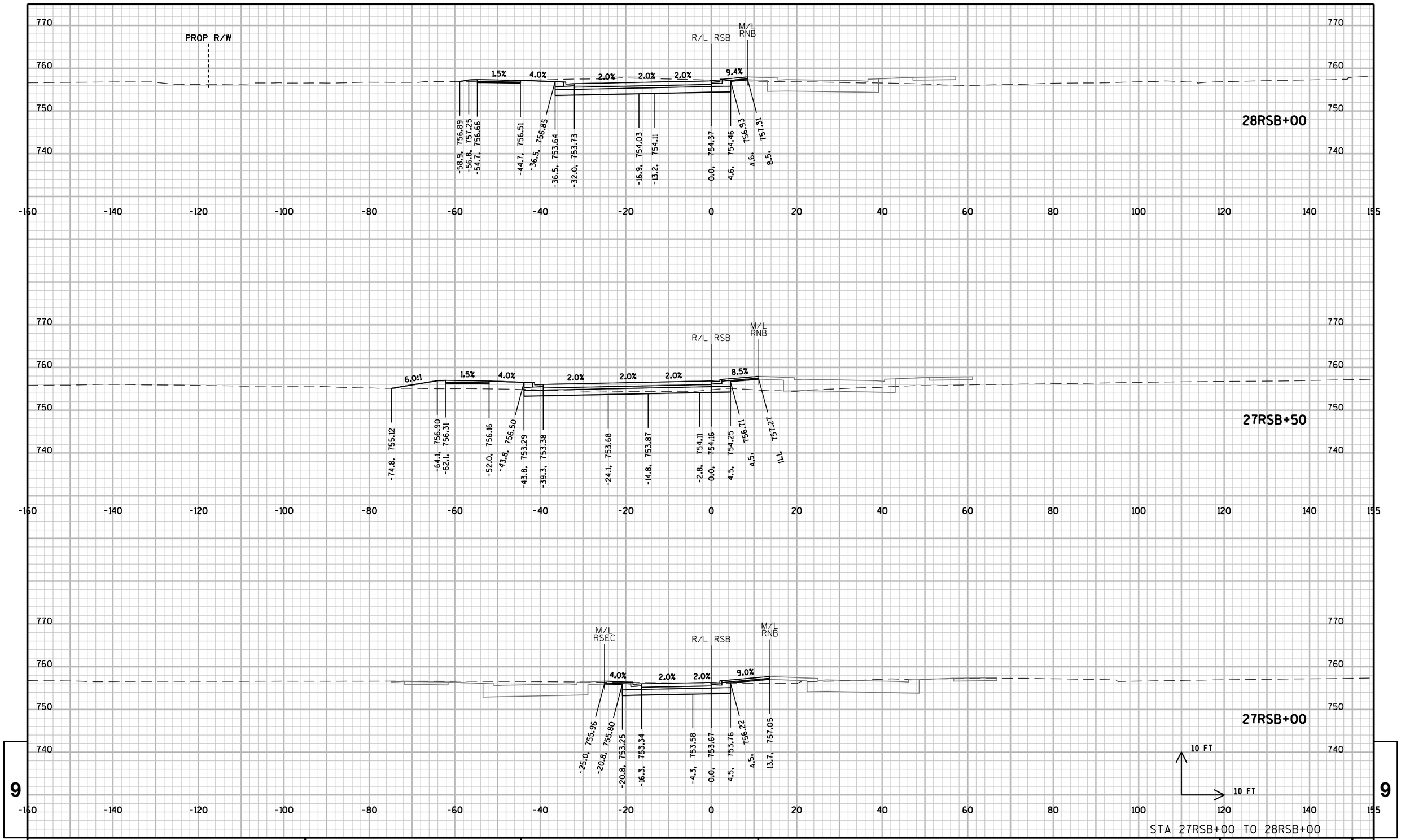
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STA 25RSB+98 TO 26RSB+50

PROJECT NO: 1517-75-76	HWY: USH 10	COUNTY: WINNEBAGO	CROSS SECTIONS: RACINE ROAD SB	SHEET E

FILE NAME : \\milw00\ingrproj\56537\1517-75-76\t1\cds\090201_xs_RSB.dgn PLOT DATE : 1/15/2016 PLOT BY : arosemeyer PLOT NAME : PLOT SCALE : 20:1

WISDOT/CADDS SHEET 21



STA 27RSB+00 TO 28RSB+00

PROJECT NO: 1517-75-76	HWY: USH 10	COUNTY: WINNEBAGO	CROSS SECTIONS: RACINE ROAD SB	SHEET 377	E

FILE NAME : \\milw00\ingrproj\56537\1517-75-76\t1\cds\090201_xs_RSB.dgn PLOT DATE : 1/15/2016 PLOT BY : grosemeyer PLOT NAME : PLOT SCALE : 20:1

WISDOT/CADDS SHEET 21

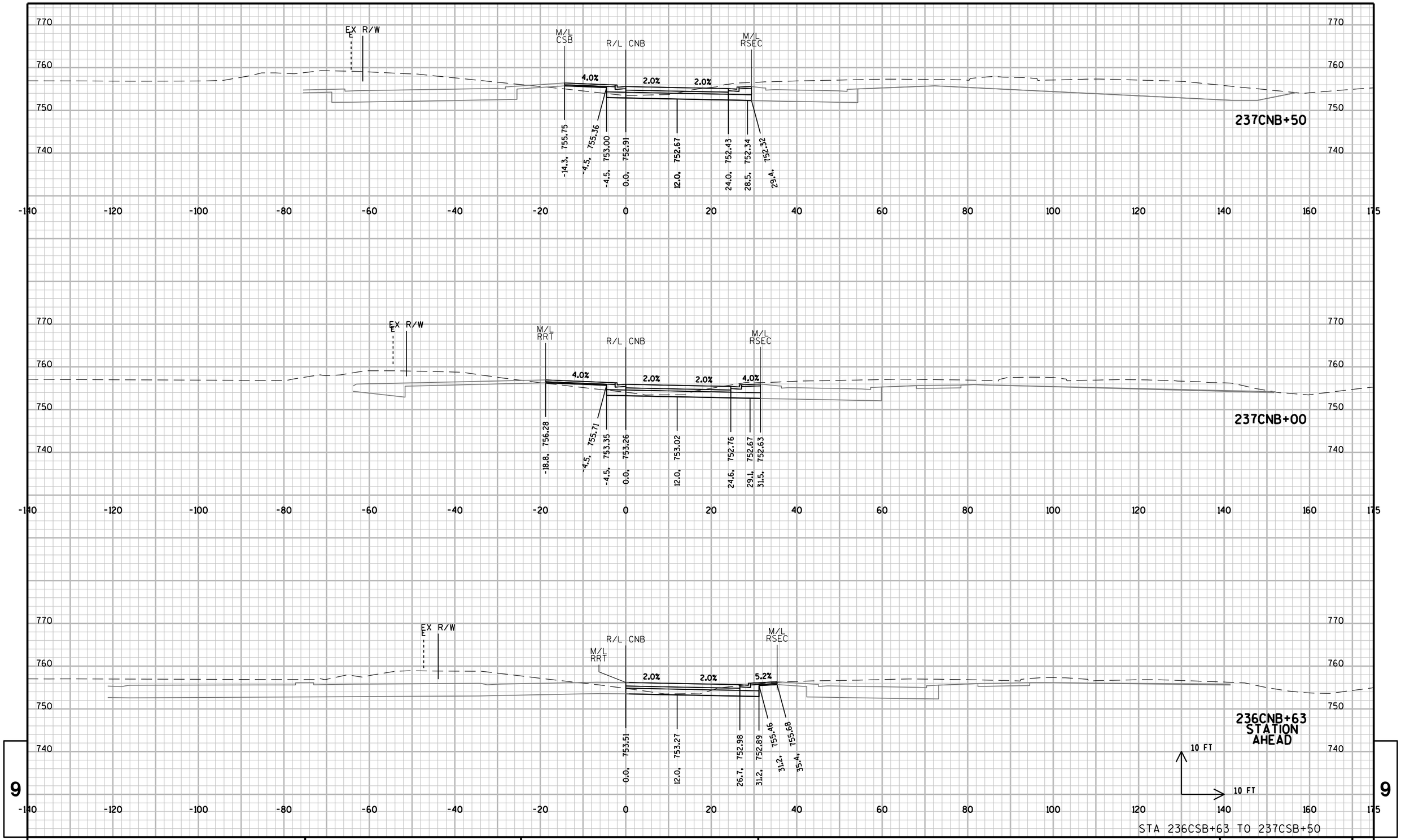
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PROJECT NO: 1517-75-76	HWY: USH 10	COUNTY: WINNEBAGO	CROSS SECTIONS: RACINE ROAD SB	SHEET 378	E

FILE NAME : \\milw00\ingrproj\56537\1517-75-76\t1\cds\090201_xs_RSB.dgn PLOT DATE : 1/15/2016 PLOT BY : grosemeyer PLOT NAME : PLOT SCALE : 20:1

WISDOT/CADDS SHEET 21

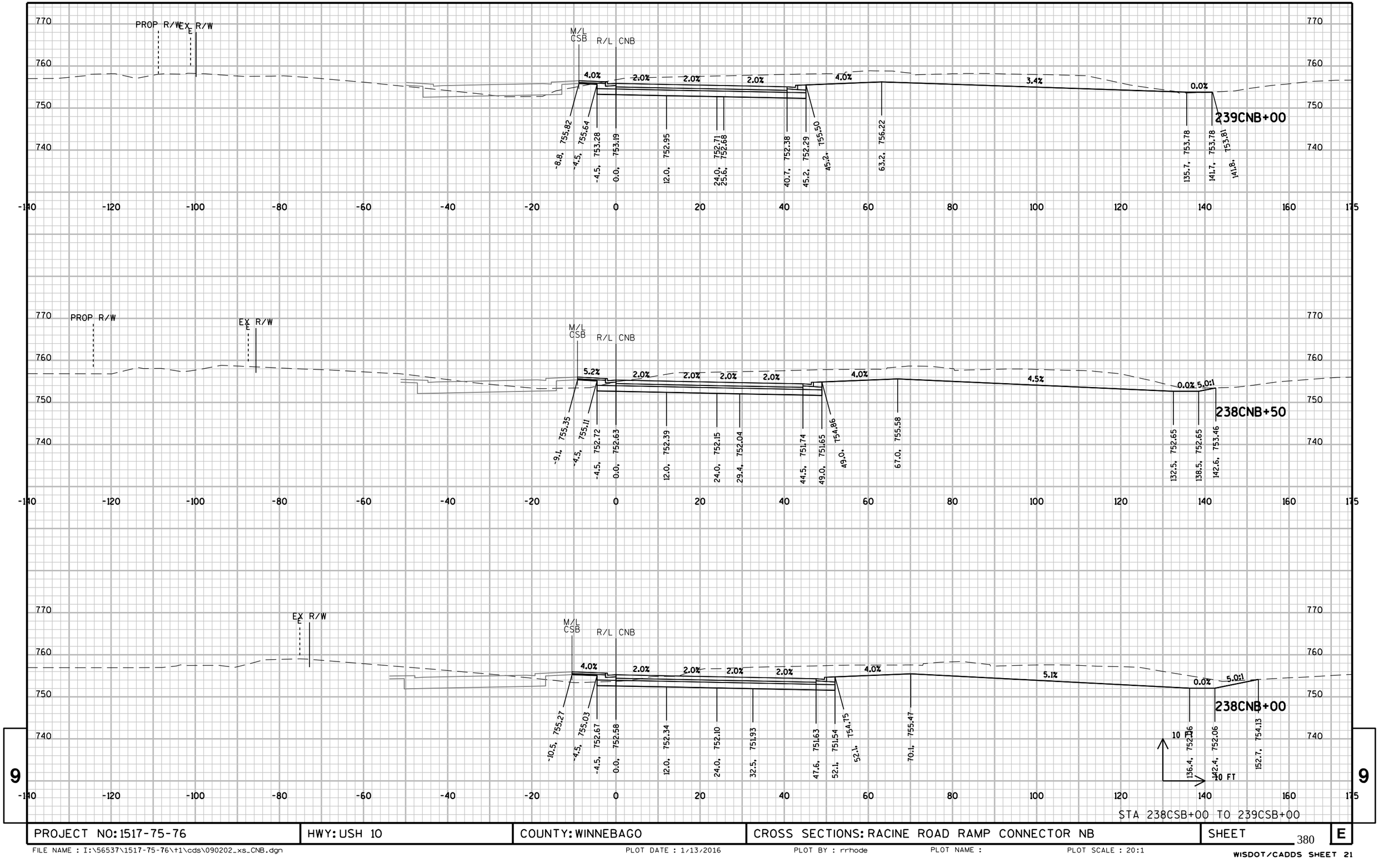


STA 236CSB+63 TO 237CSB+50

PROJECT NO: 1517-75-76	HWY: USH 10	COUNTY: WINNEBAGO	CROSS SECTIONS: RACINE ROAD RAMP CONNECTOR NB	SHEET 379	E

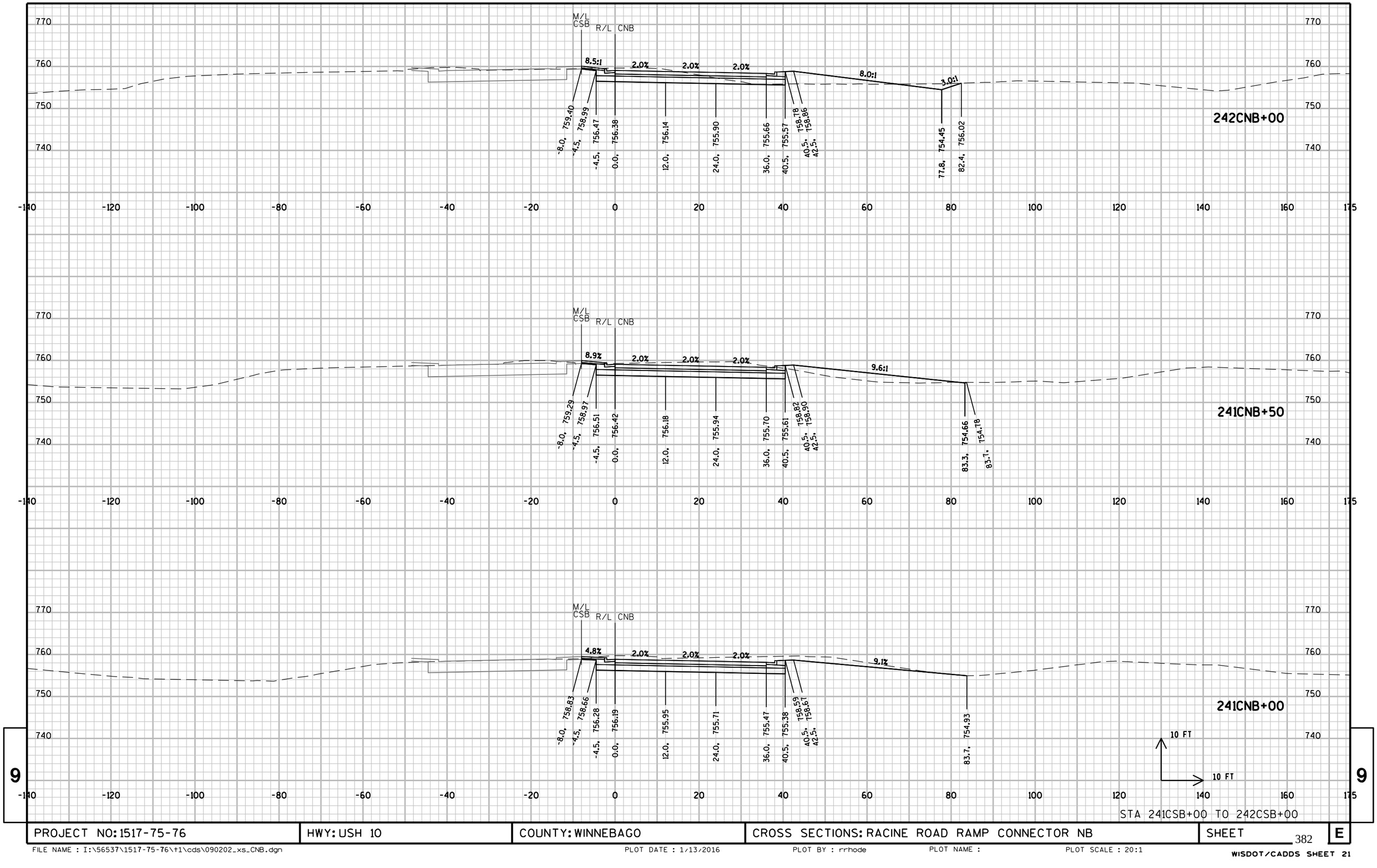
FILE NAME : I:\56537\1517-75-76\t1\cds\090202_xs_CNB.dgn | PLOT DATE : 1/13/2016 | PLOT BY : rrhode | PLOT NAME : | PLOT SCALE : 20:1

WISDOT/CADDS SHEET 21



PROJECT NO: 1517-75-76	HWY: USH 10	COUNTY: WINNEBAGO	CROSS SECTIONS: RACINE ROAD RAMP CONNECTOR NB	SHEET 380	E

PROJECT NO: 1517-75-76	HWY: USH 10	COUNTY: WINNEBAGO	CROSS SECTIONS: RACINE ROAD RAMP CONNECTOR NB	SHEET 381	E

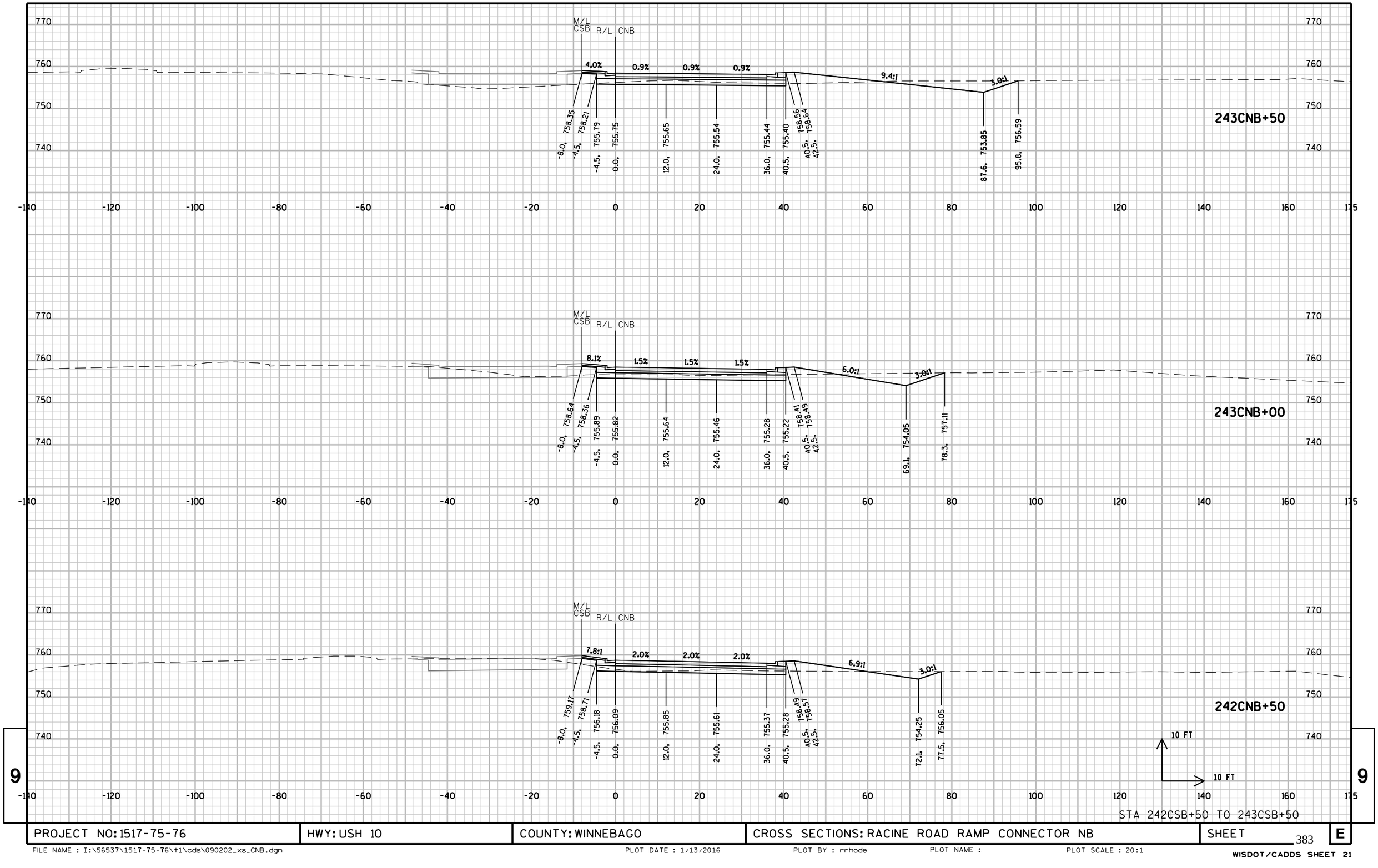


STA 241CSB+00 TO 242CSB+00

PROJECT NO: 1517-75-76	HWY: USH 10	COUNTY: WINNEBAGO	CROSS SECTIONS: RACINE ROAD RAMP CONNECTOR NB	SHEET	E

FILE NAME : I:\56537\1517-75-76\f1\cds\090202_xs_CNB.dgn PLOT DATE : 1/13/2016 PLOT BY : rrhode PLOT NAME : PLOT SCALE : 20:1

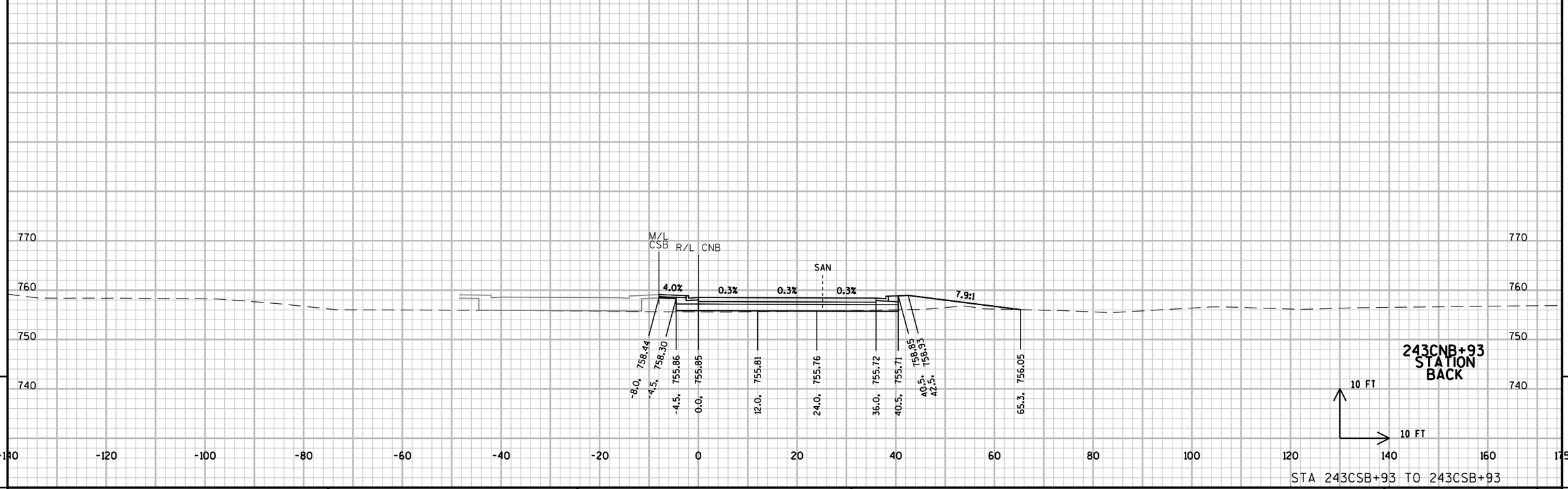
WISDOT/CADDS SHEET 21



STA 242CSB+50 TO 243CSB+50

PROJECT NO: 1517-75-76	HWY: USH 10	COUNTY: WINNEBAGO	CROSS SECTIONS: RACINE ROAD RAMP CONNECTOR NB	SHEET 383	E

FILE NAME : I:\56537\1517-75-76\t1\cds\090202_xs_CNB.dgn | PLOT DATE : 1/13/2016 | PLOT BY : rrhode | PLOT NAME : | PLOT SCALE : 20:1

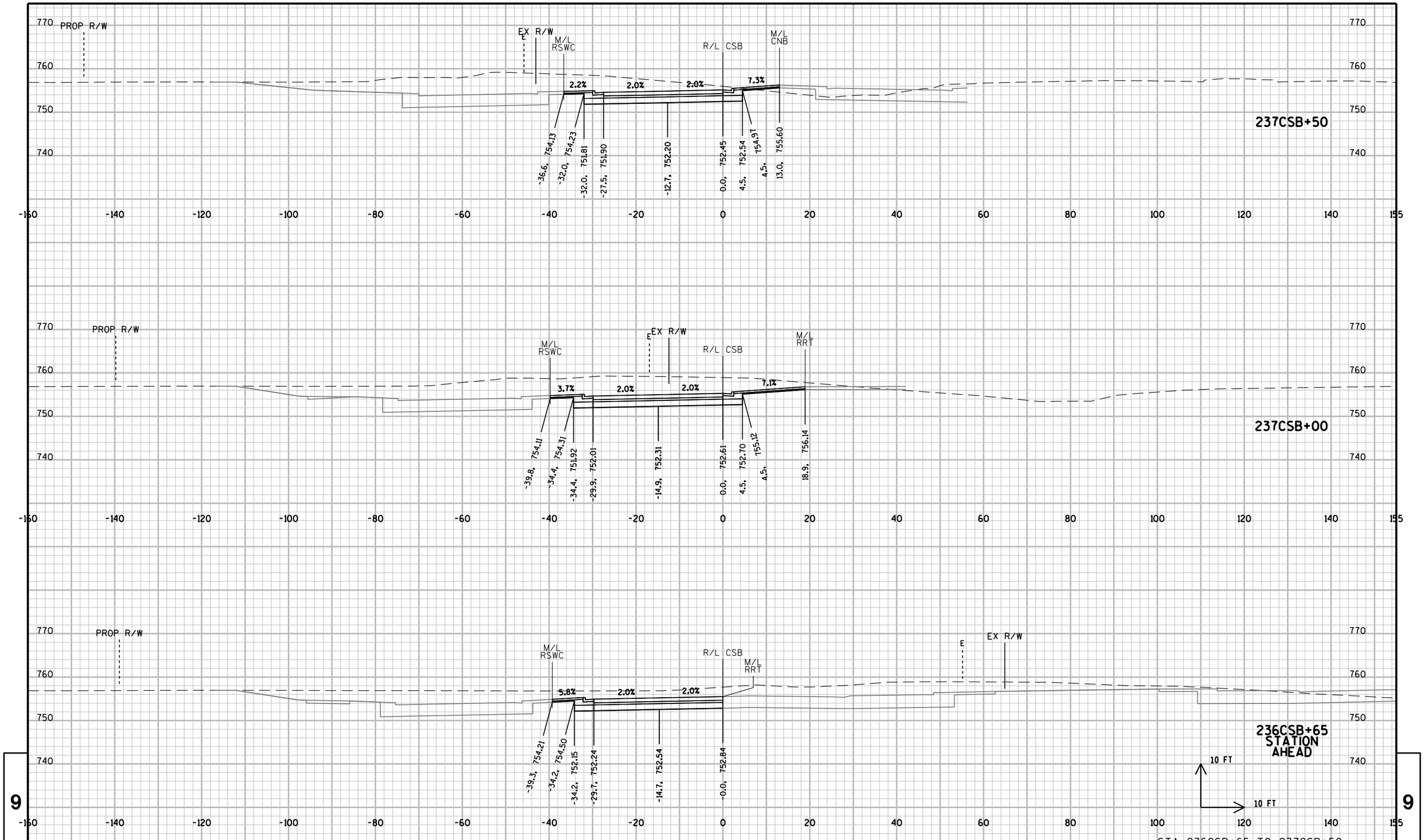


STA 243CSB+93 TO 243CSB+93

PROJECT NO: 1517-75-76	HWY: USH 10	COUNTY: WINNEBAGO	CROSS SECTIONS: RACINE ROAD RAMP CONNECTOR NB	SHEET 384	E

FILE NAME : I:\56537\1517-75-76\t1\cds\090202_xs_CNB.dgn PLOT DATE : 1/13/2016 PLOT BY : rrhode PLOT NAME : PLOT SCALE : 20:1

WISDOT/CADDS SHEET 21

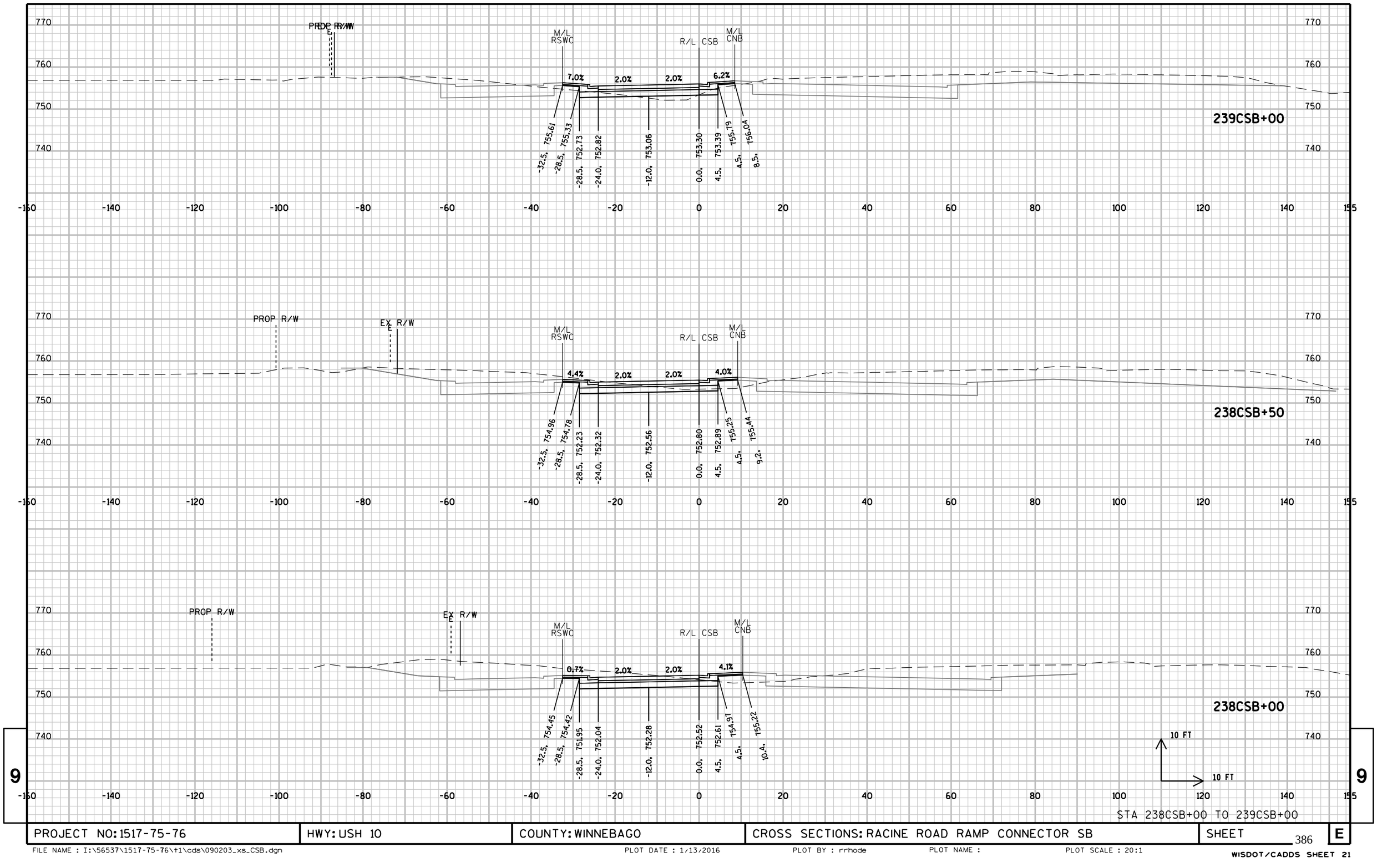


STA 236CSB+65 TO 237CSB+50

PROJECT NO: 1517-75-76	HWY: USH 10	COUNTY: WINNEBAGO	CROSS SECTIONS: RACINE ROAD RAMP CONNECTOR SB	SHEET 385	E

FILE NAME : I:\56537\1517-75-76\t1\cds\090203_xs_CSB.dgn PLOT DATE : 1/13/2016 PLOT BY : rrhode PLOT NAME : PLOT SCALE : 20:1

WISDOT/CADDS SHEET 21



STA 238CSB+00 TO 239CSB+00

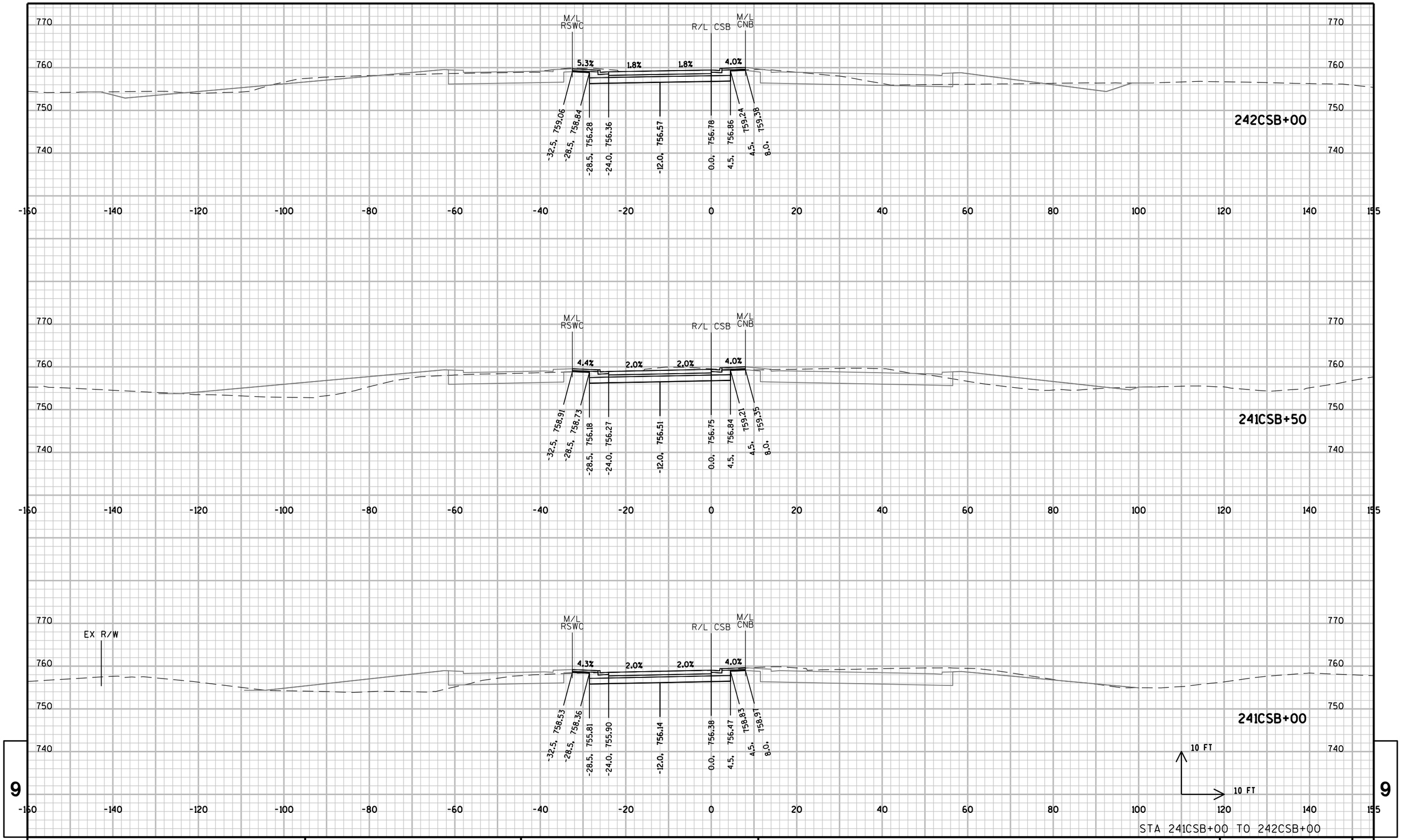
PROJECT NO: 1517-75-76	HWY: USH 10	COUNTY: WINNEBAGO	CROSS SECTIONS: RACINE ROAD RAMP CONNECTOR SB	SHEET 386	E

STA 239CSB+50 TO 240CSB+50

PROJECT NO: 1517-75-76	HWY: USH 10	COUNTY: WINNEBAGO	CROSS SECTIONS: RACINE ROAD RAMP CONNECTOR SB	SHEET 387	E

FILE NAME : I:\56537\1517-75-76\t1\cds\090203_xs_CSB.dgn PLOT DATE : 1/13/2016 PLOT BY : rrhode PLOT NAME : PLOT SCALE : 20:1

WISDOT/CADDS SHEET 21



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STA 241CSB+00 TO 242CSB+00

PROJECT NO: 1517-75-76	HWY: USH 10	COUNTY: WINNEBAGO	CROSS SECTIONS: RACINE ROAD RAMP CONNECTOR SB	SHEET	E

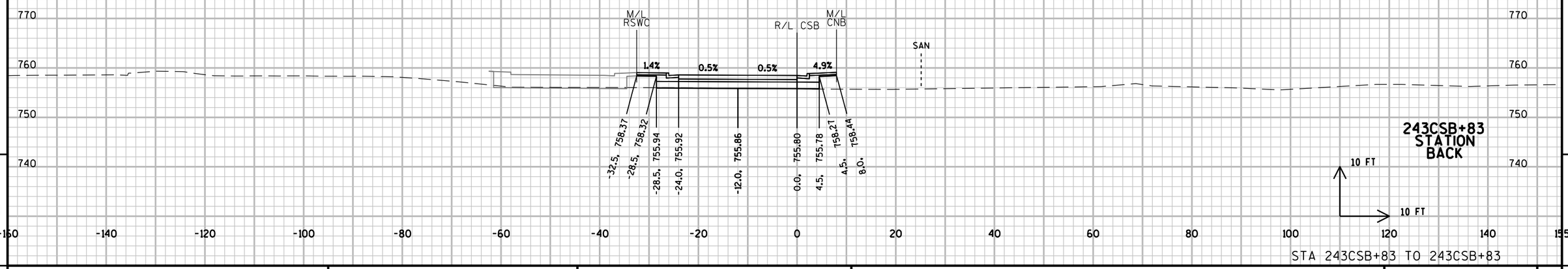
FILE NAME : I:\56537\1517-75-76\t1\cds\090203_xs_CSB.dgn
PLOT DATE : 1/13/2016
PLOT BY : rrhode
PLOT NAME :
PLOT SCALE : 20:1
WISDOT/CADDS SHEET 21

STA 242CSB+50 TO 243CSB+50

PROJECT NO: 1517-75-76	HWY: USH 10	COUNTY: WINNEBAGO	CROSS SECTIONS: RACINE ROAD RAMP CONNECTOR SB	SHEET 389	E

FILE NAME : I:\56537\1517-75-76\t1\cds\090203_xs_CSB.dgn PLOT DATE : 1/13/2016 PLOT BY : rrhode PLOT NAME : PLOT SCALE : 20:1

WISDOT/CADDS SHEET 21



STA 243CSB+83 TO 243CSB+83

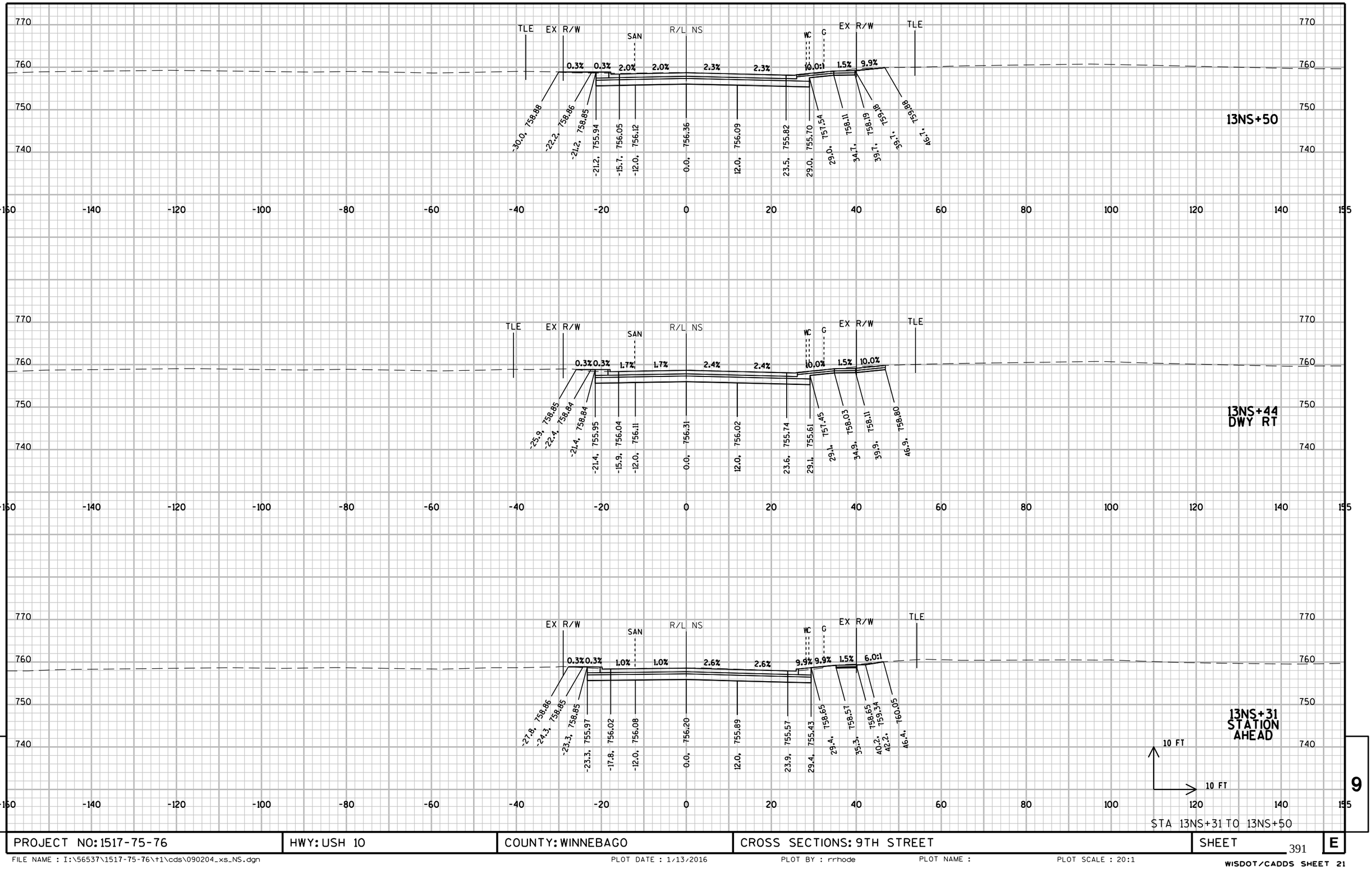
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PROJECT NO: 1517-75-76	HWY: USH 10	COUNTY: WINNEBAGO	CROSS SECTIONS: RACINE ROAD RAMP CONNECTOR SB	SHEET 390	E

FILE NAME : I:\56537\1517-75-76\t1\cds\090203_xs_CSB.dgn PLOT DATE : 1/13/2016 PLOT BY : rrhode PLOT NAME : PLOT SCALE : 20:1

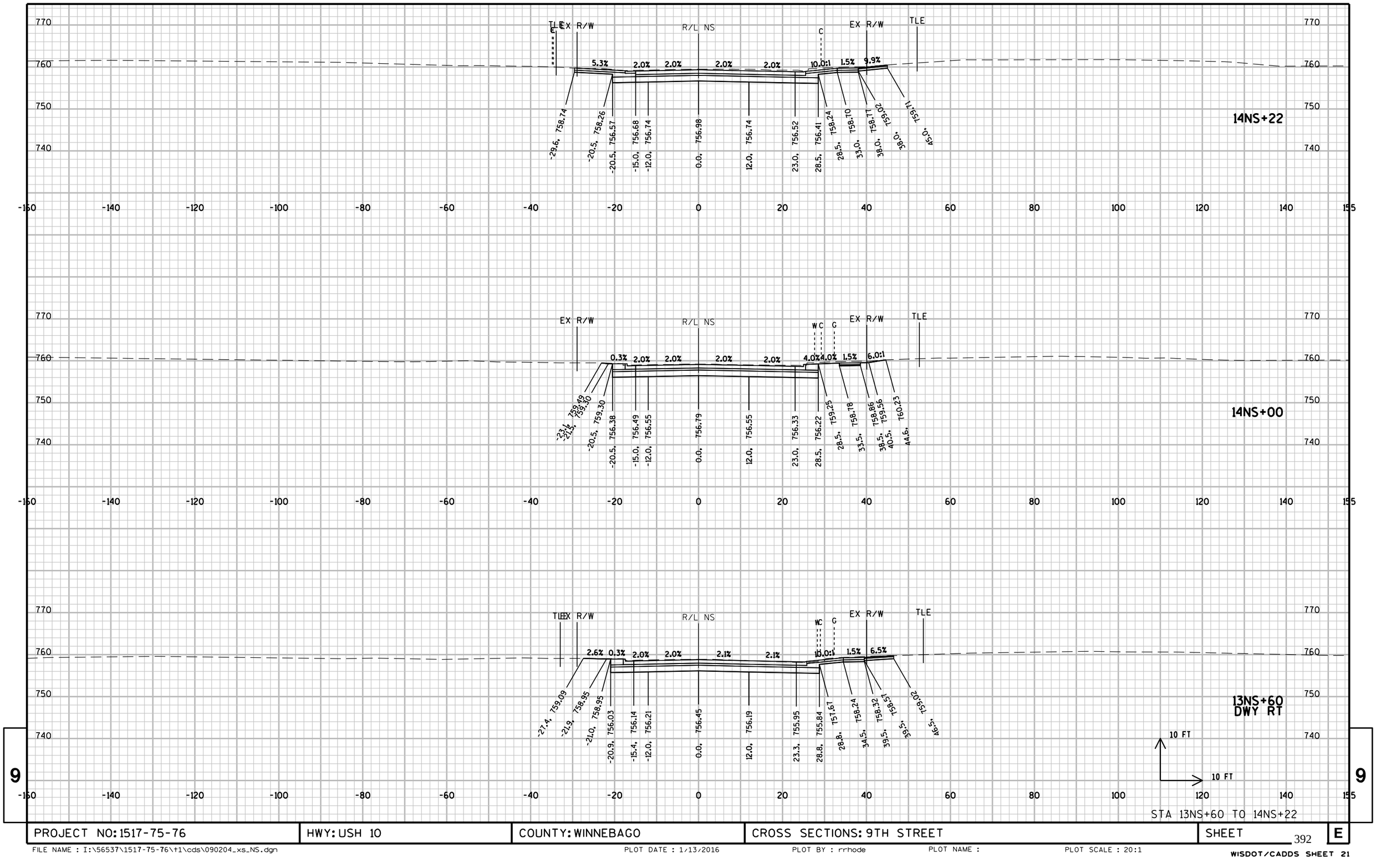
WISDOT/CADDS SHEET 21



STA 13NS+31 TO 13NS+50

PROJECT NO: 1517-75-76	HWY: USH 10	COUNTY: WINNEBAGO	CROSS SECTIONS: 9TH STREET	SHEET	E

FILE NAME : I:\56537\1517-75-76\t1\cds\090204_xs_NS.dgn PLOT DATE : 1/13/2016 PLOT BY : rrhode PLOT NAME : PLOT SCALE : 20:1



STA 13NS+60 TO 14NS+22

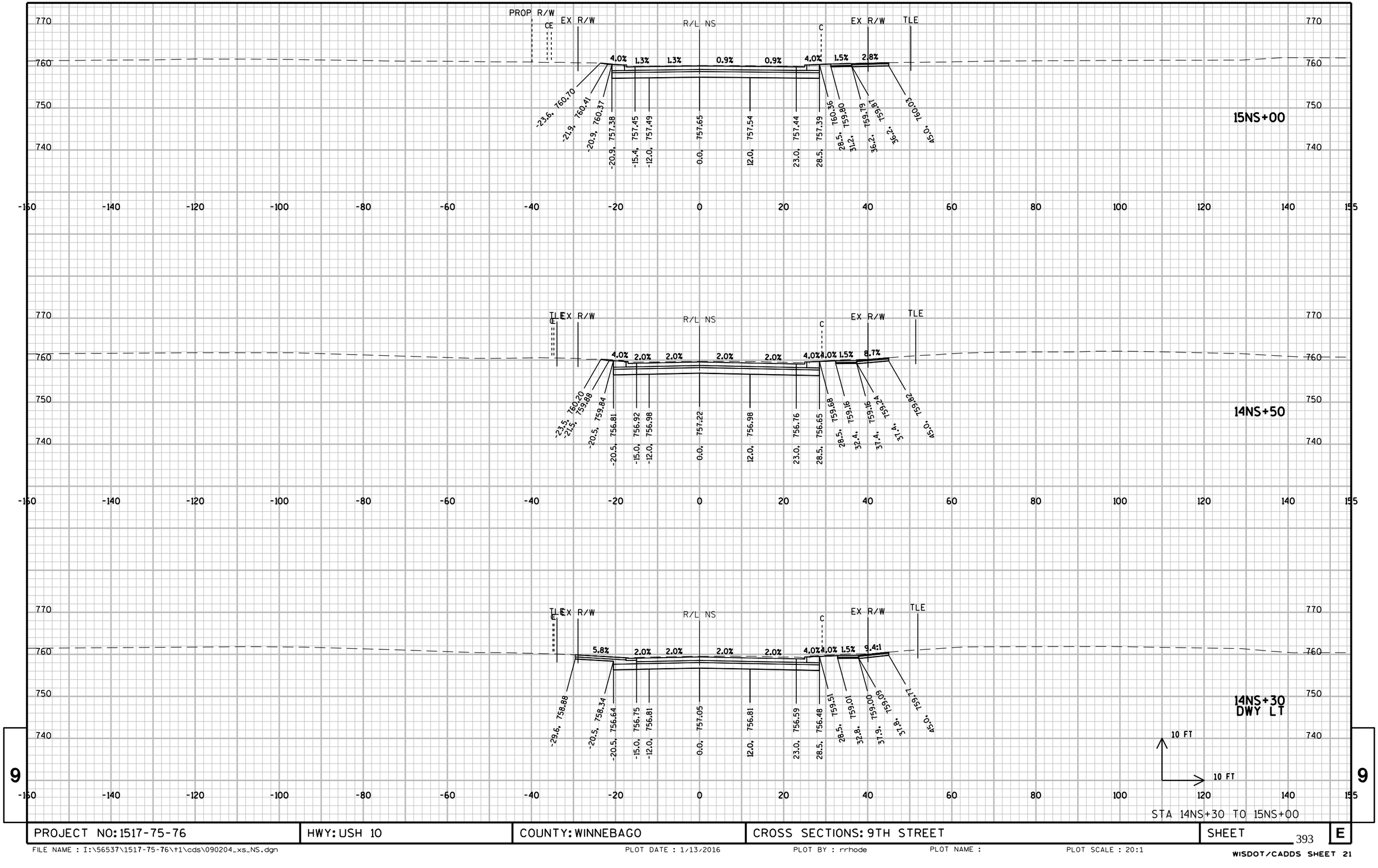
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PROJECT NO: 1517-75-76	HWY: USH 10	COUNTY: WINNEBAGO	CROSS SECTIONS: 9TH STREET	SHEET 392	E

FILE NAME : I:\56537\1517-75-76\t1\cds\090204_xs_NS.dgn PLOT DATE : 1/13/2016 PLOT BY : rrhode PLOT NAME : PLOT SCALE : 20:1

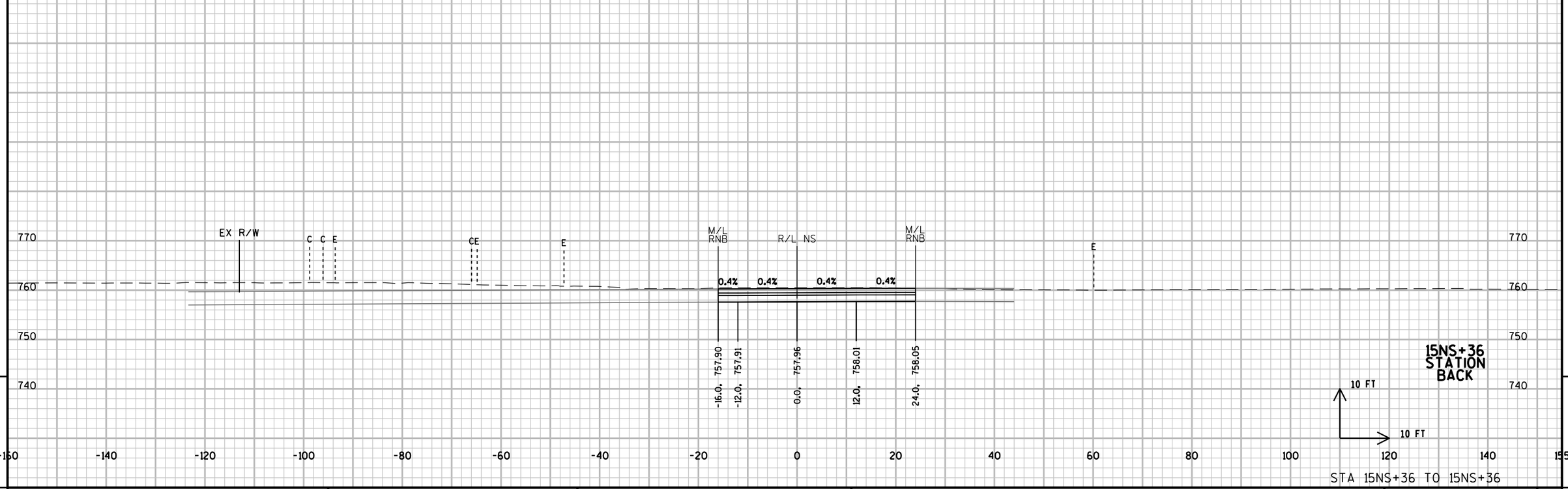
WISDOT/CADDS SHEET 21



PROJECT NO: 1517-75-76	HWY: USH 10	COUNTY: WINNEBAGO	CROSS SECTIONS: 9TH STREET	SHEET E

FILE NAME : I:\56537\1517-75-76\t1\cds\090204_xs_NS.dgn PLOT DATE : 1/13/2016 PLOT BY : rrhode PLOT NAME : PLOT SCALE : 20:1

WISDOT/CADDS SHEET 21



STA 15NS+36 TO 15NS+36

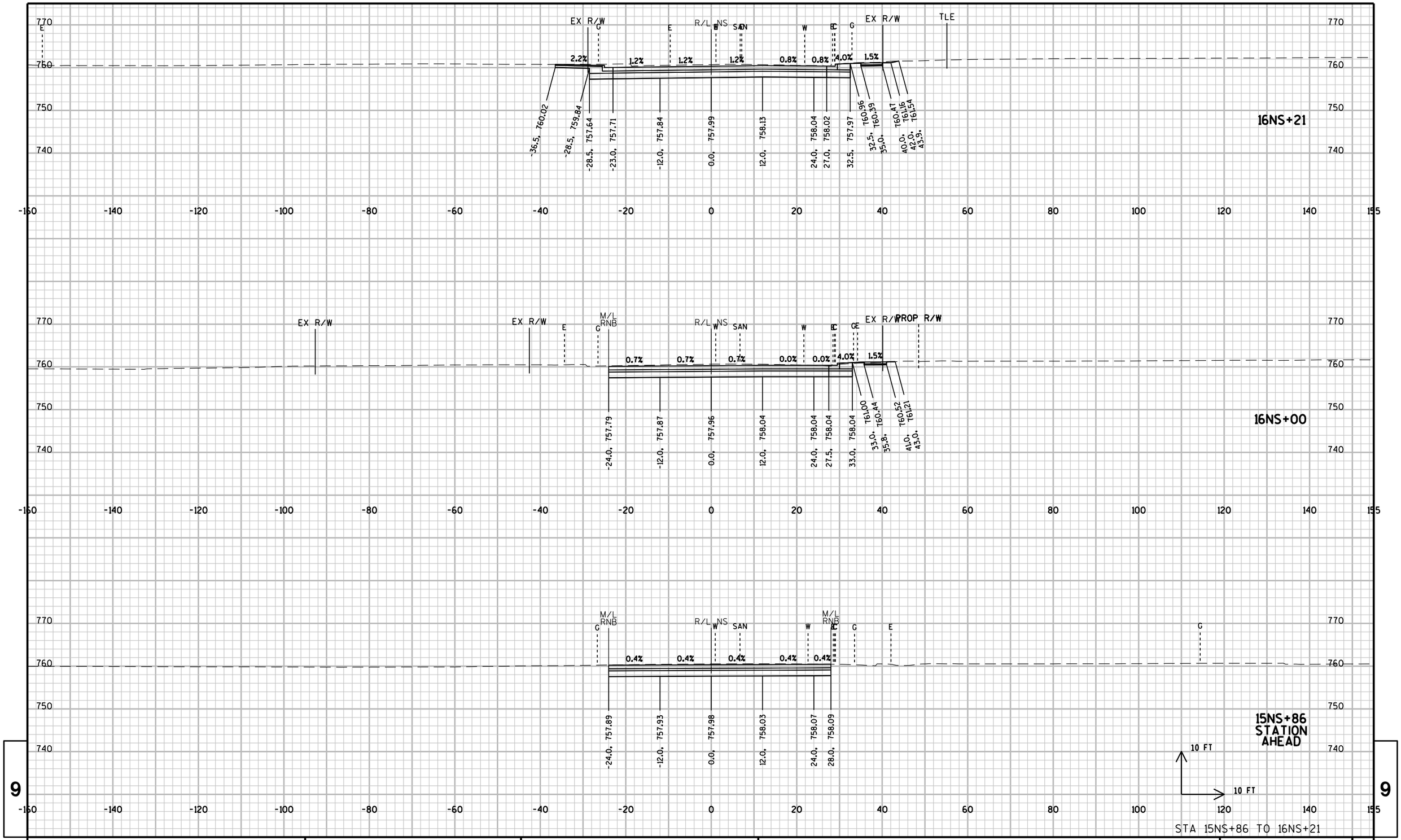
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PROJECT NO: 1517-75-76	HWY: USH 10	COUNTY: WINNEBAGO	CROSS SECTIONS: 9TH STREET	SHEET 394	E

FILE NAME : I:\56537\1517-75-76\t1\cds\090204_xs_NS.dgn PLOT DATE : 1/13/2016 PLOT BY : rrhode PLOT NAME : PLOT SCALE : 20:1

WISDOT/CADDS SHEET 21

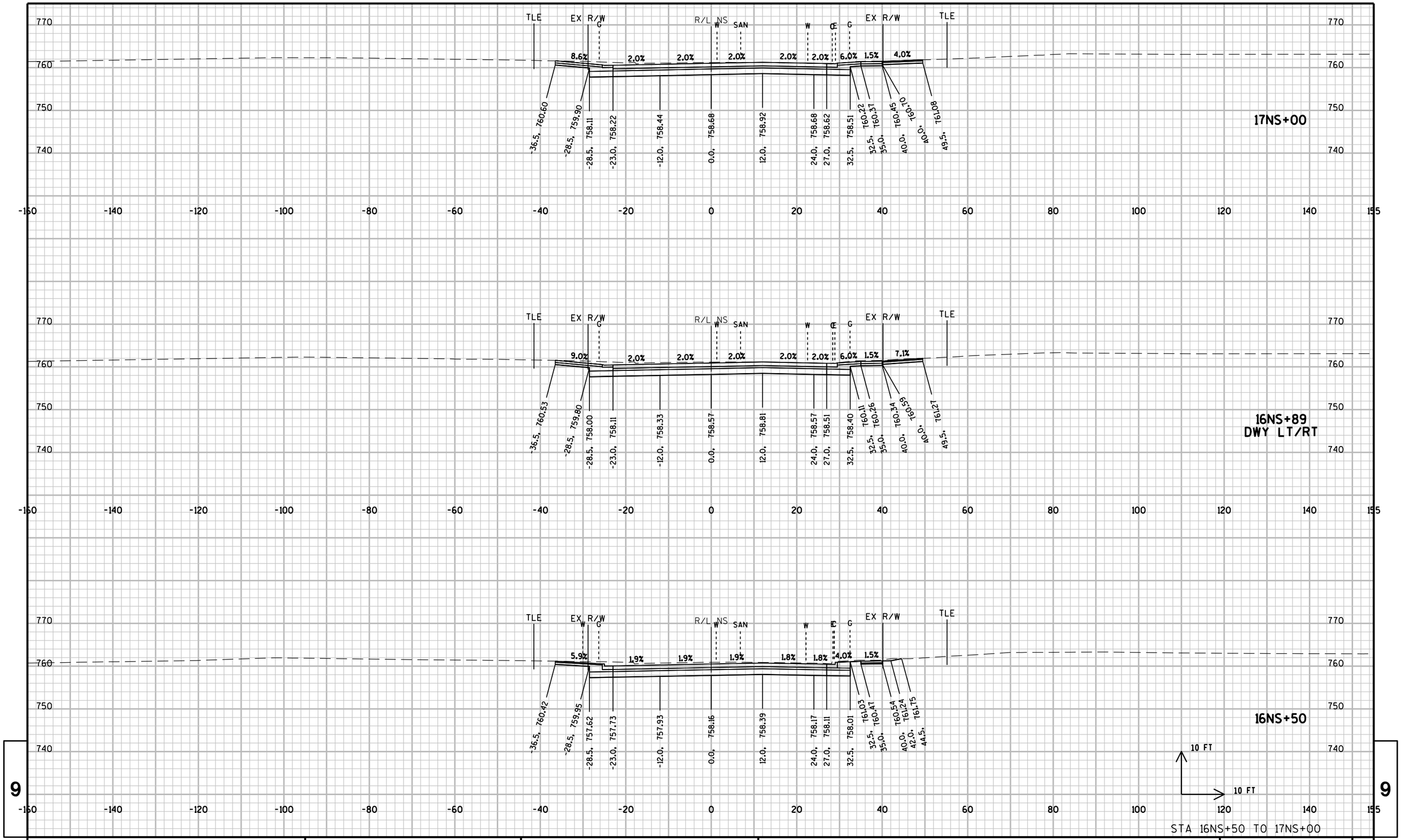


STA 15NS+86 TO 16NS+21

PROJECT NO: 1517-75-76	HWY: USH 10	COUNTY: WINNEBAGO	CROSS SECTIONS: 9TH STREET	SHEET	E

FILE NAME : I:\56537\1517-75-76\t1\cds\090204_xs_NS.dgn PLOT DATE : 1/13/2016 PLOT BY : rrhode PLOT NAME : PLOT SCALE : 20:1

WISDOT/CADDS SHEET 21



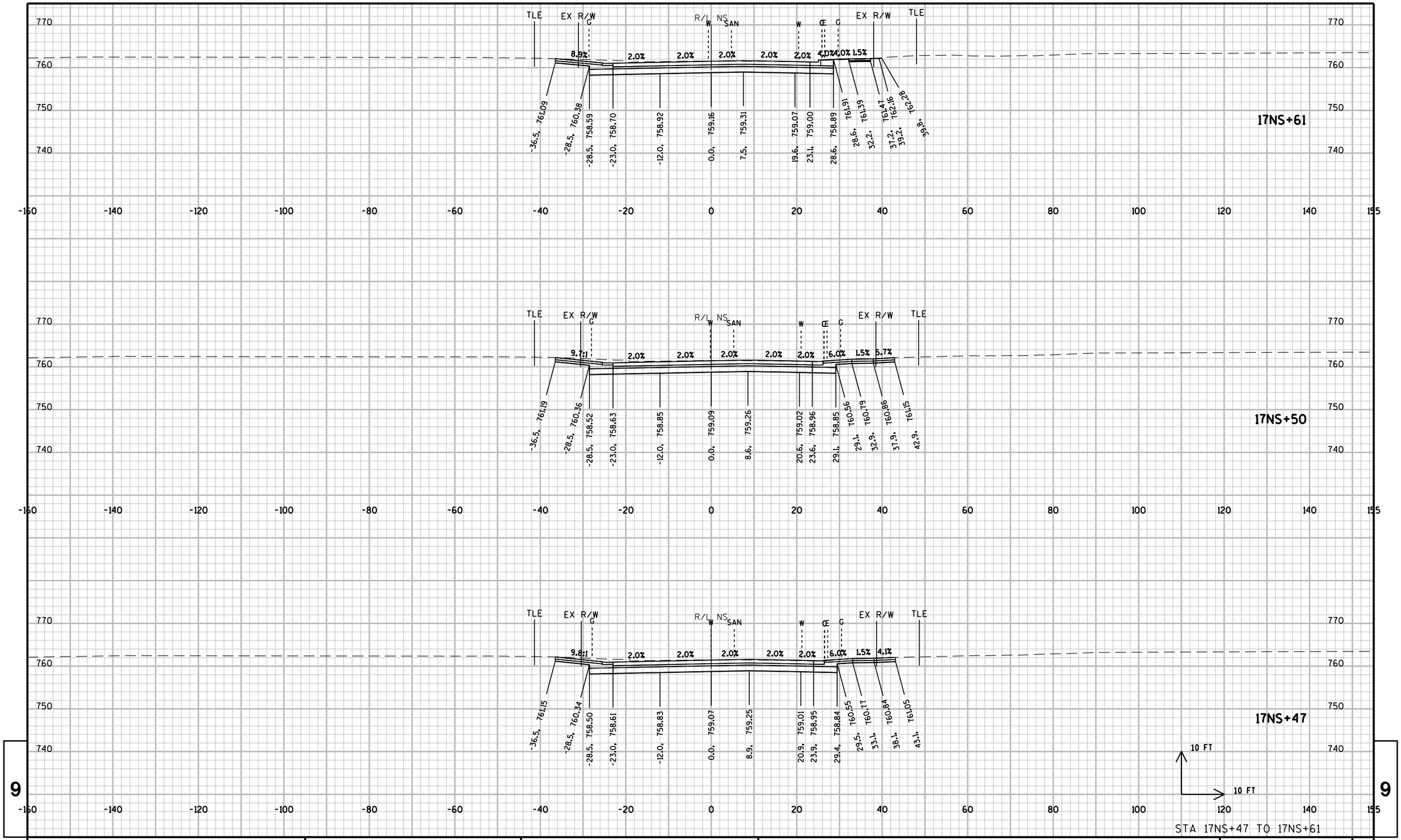
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STA 16NS+50 TO 17NS+00

PROJECT NO: 1517-75-76	HWY: USH 10	COUNTY: WINNEBAGO	CROSS SECTIONS: 9TH STREET	SHEET	E

FILE NAME : I:\56537\1517-75-76\t1\cds\090204_xs_NS.dgn PLOT DATE : 1/13/2016 PLOT BY : rrhode PLOT NAME : PLOT SCALE : 20:1



STA 17NS+47 TO 17NS+61

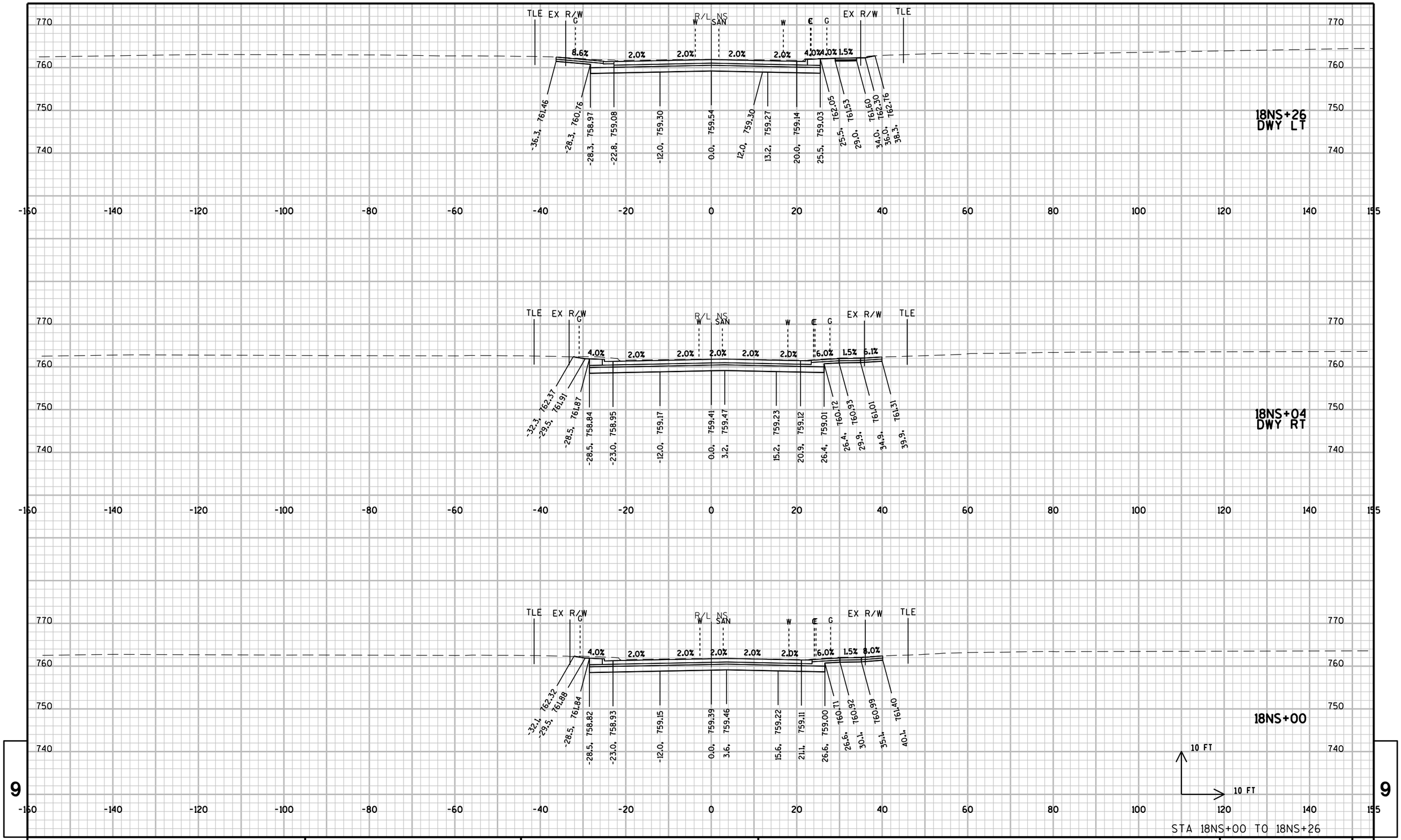
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PROJECT NO: 1517-75-76	HWY: USH 10	COUNTY: WINNEBAGO	CROSS SECTIONS: 9TH STREET	SHEET	E

FILE NAME : I:\56537\1517-75-76\t1\cds\090204_xs_NS.dgn PLOT DATE : 1/13/2016 PLOT BY : rrhode PLOT NAME : PLOT SCALE : 20:1

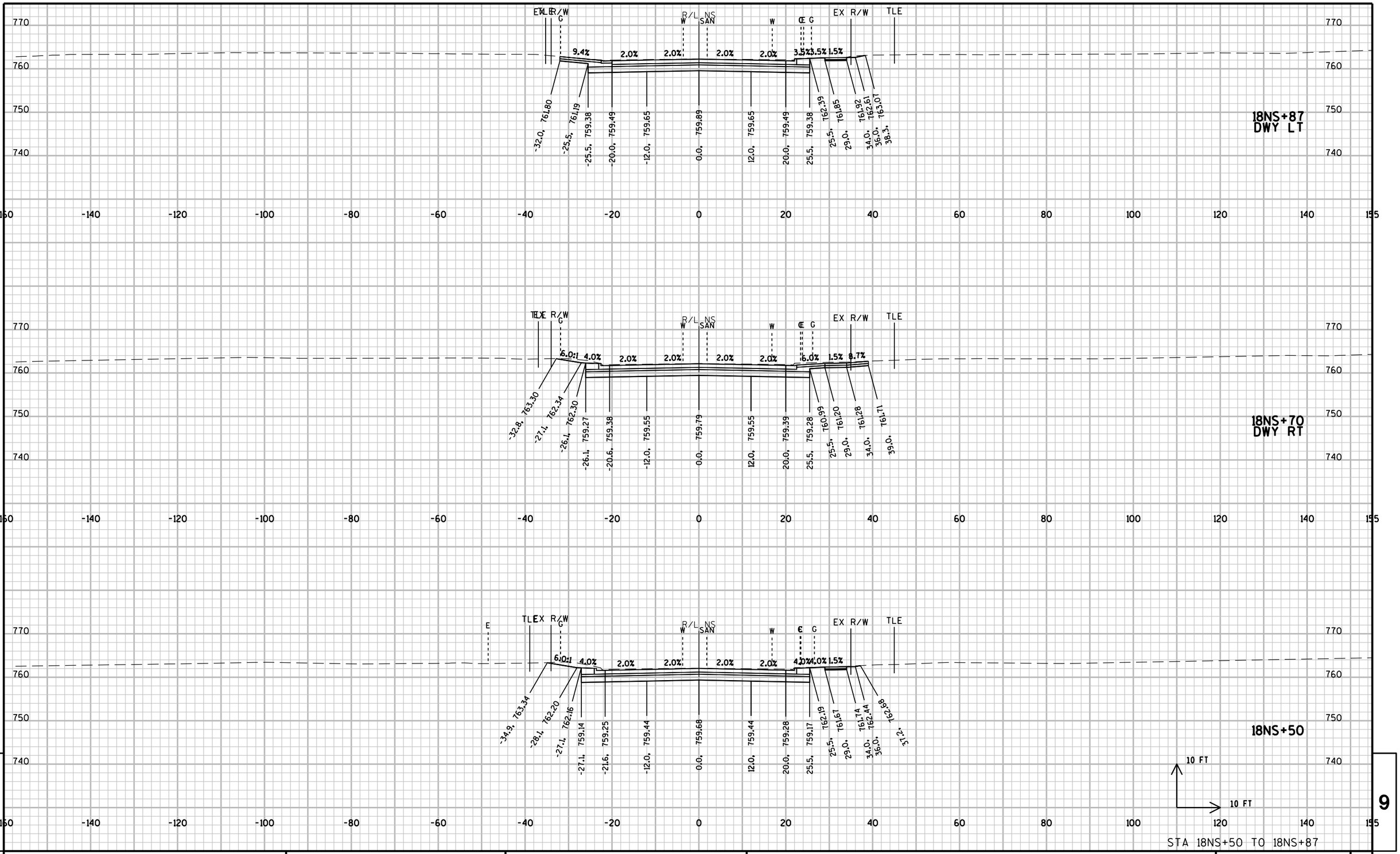
WISDOT/CADDS SHEET 21



STA 18NS+00 TO 18NS+26

PROJECT NO: 1517-75-76	HWY: USH 10	COUNTY: WINNEBAGO	CROSS SECTIONS: 9TH STREET	SHEET	E

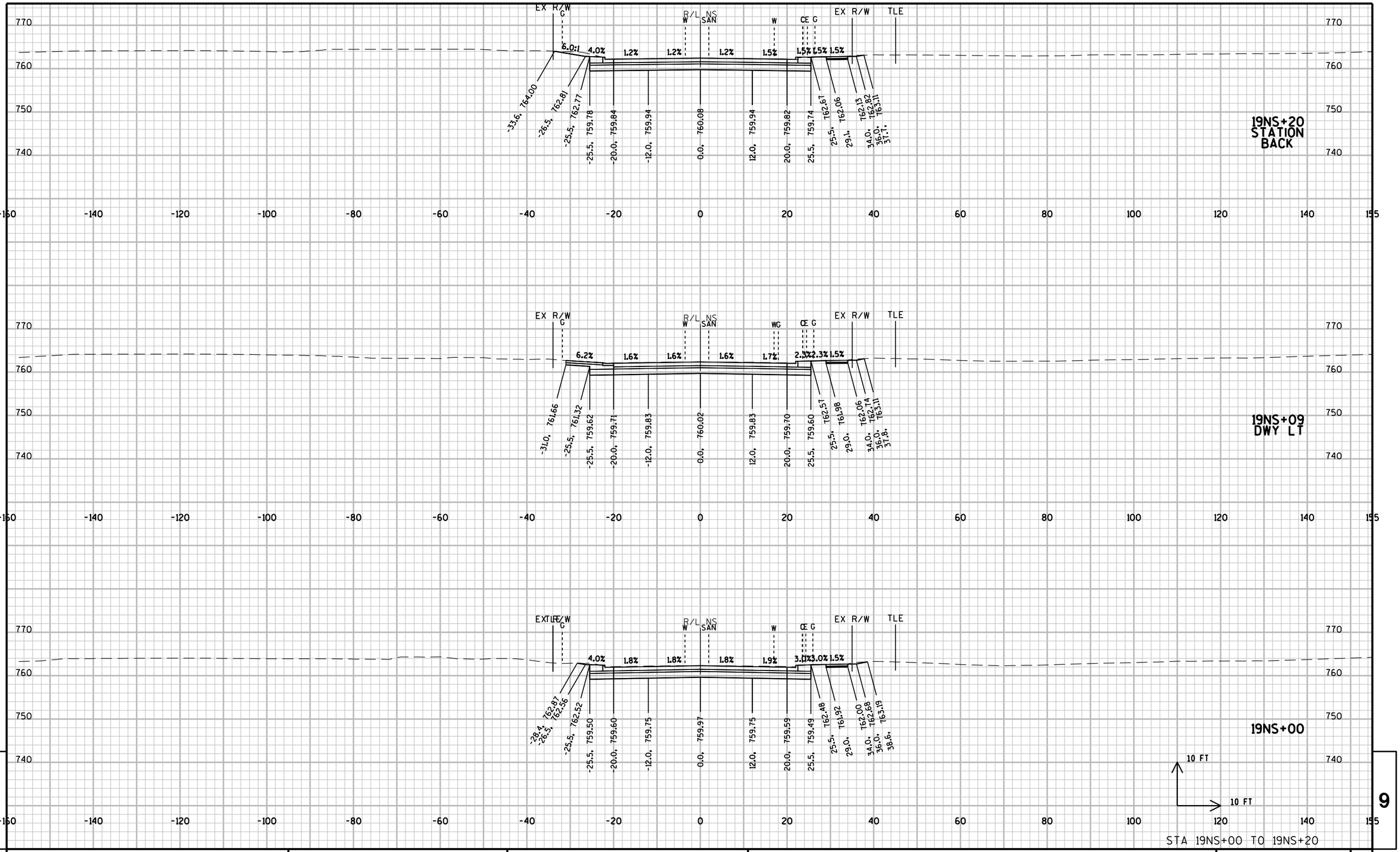
FILE NAME : I:\56537\1517-75-76\t1\cds\090204_xs_NS.dgn PLOT DATE : 1/13/2016 PLOT BY : rrhode PLOT NAME : PLOT SCALE : 20:1



STA 18NS+50 TO 18NS+87

PROJECT NO: 1517-75-76	HWY: USH 10	COUNTY: WINNEBAGO	CROSS SECTIONS: 9TH STREET	SHEET	E

FILE NAME : I:\56537\1517-75-76\t1\cds\090204_xs_NS.dgn PLOT DATE : 1/13/2016 PLOT BY : rrhode PLOT NAME : PLOT SCALE : 20:1



9

9

STA 19NS+00 TO 19NS+20

PROJECT NO: 1517-75-76	HWY: USH 10	COUNTY: WINNEBAGO	CROSS SECTIONS: 9TH STREET	SHEET 400	E

FILE NAME : I:\56537\1517-75-76\t1\cds\090204_xs_NS.dgn PLOT DATE : 1/13/2016 PLOT BY : rrhode PLOT NAME : PLOT SCALE : 20:1

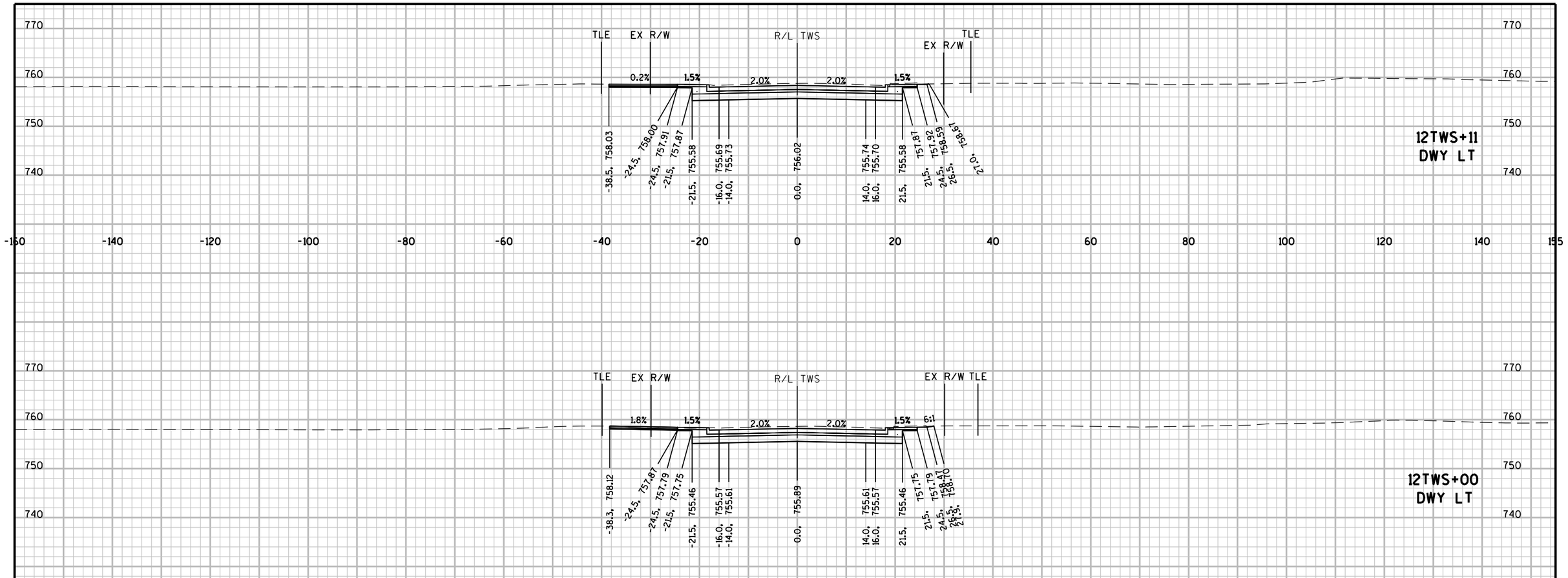
WISDOT/CADDS SHEET 21

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PROJECT NO: 1517-75-76	HWY: USH 10	COUNTY: WINNEBAGO	CROSS SECTIONS: 12TH STREET	SHEET 401	E

FILE NAME : I:\56537\1517-75-76\t1\cds\090205_xs_TWS.dgn PLOT DATE : 1/13/2016 PLOT BY : rrhode PLOT NAME : PLOT SCALE : 20:1

WISDOT/CADDS SHEET 21

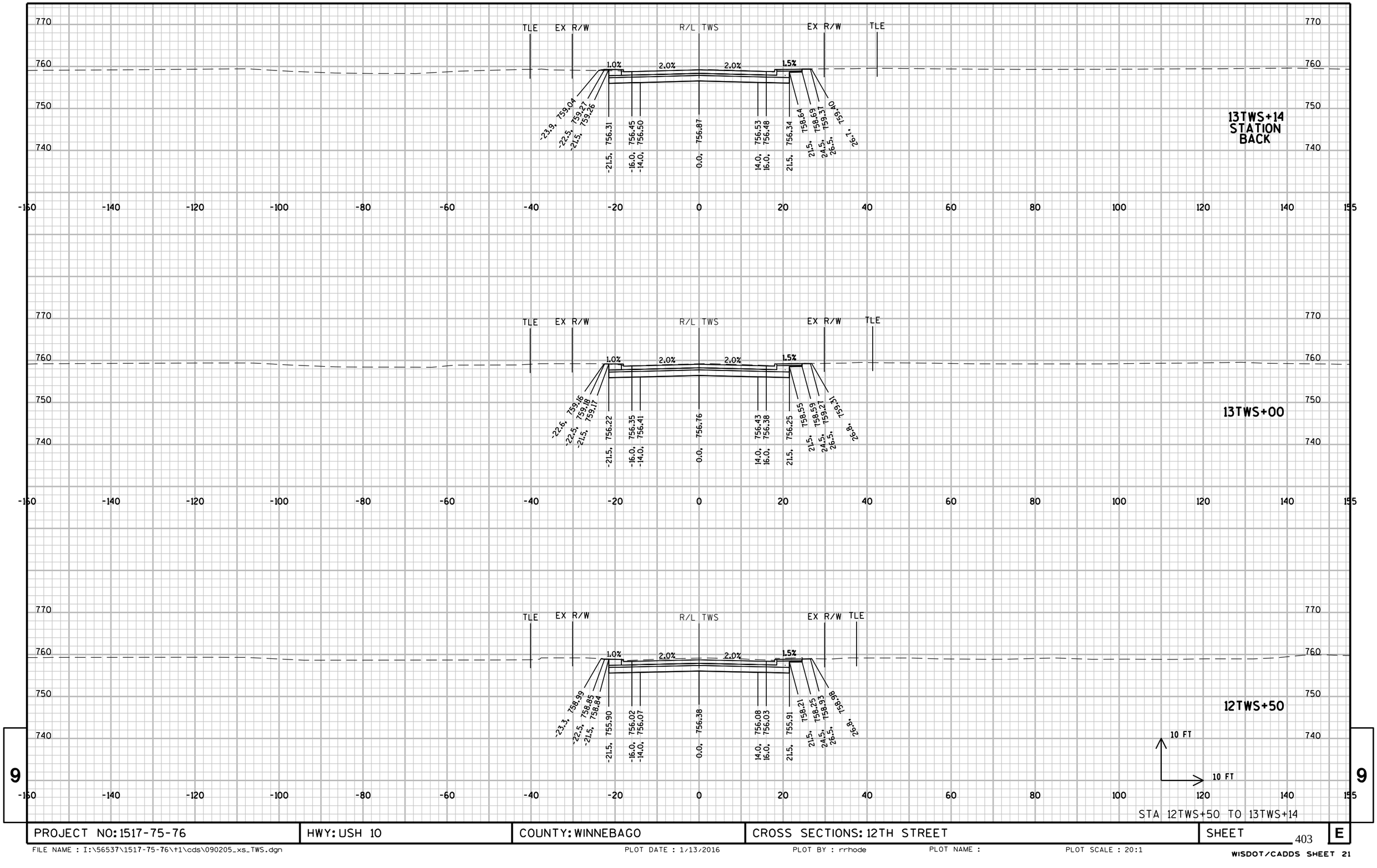


STA 11TWS+50 TO 12TWS+11

PROJECT NO: 1517-75-76	HWY: USH 10	COUNTY: WINNEBAGO	CROSS SECTIONS: 12TH STREET	SHEET	E

FILE NAME : I:\56537\1517-75-76\f1\cds\090205_xs_TWS.dgn | PLOT DATE : 1/13/2016 | PLOT BY : rrhode | PLOT NAME : | PLOT SCALE : 20:1

WISDOT/CADDS SHEET 21



9

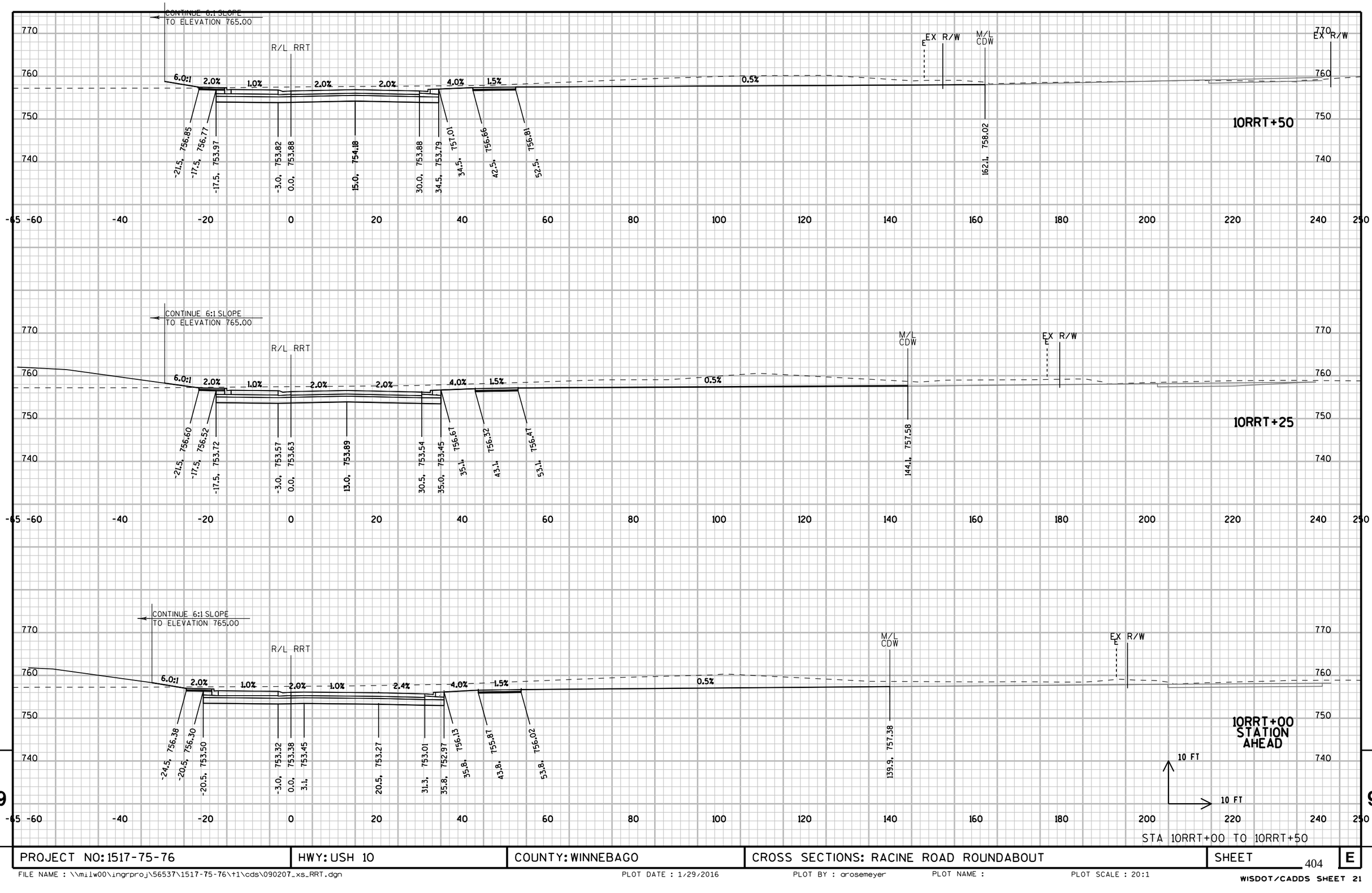
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STA 12TWS+50 TO 13TWS+14

PROJECT NO: 1517-75-76	HWY: USH 10	COUNTY: WINNEBAGO	CROSS SECTIONS: 12TH STREET	SHEET	E

FILE NAME : I:\56537\1517-75-76\t1\cds\090205_xs_TWS.dgn PLOT DATE : 1/13/2016 PLOT BY : rrhode PLOT NAME : PLOT SCALE : 20:1

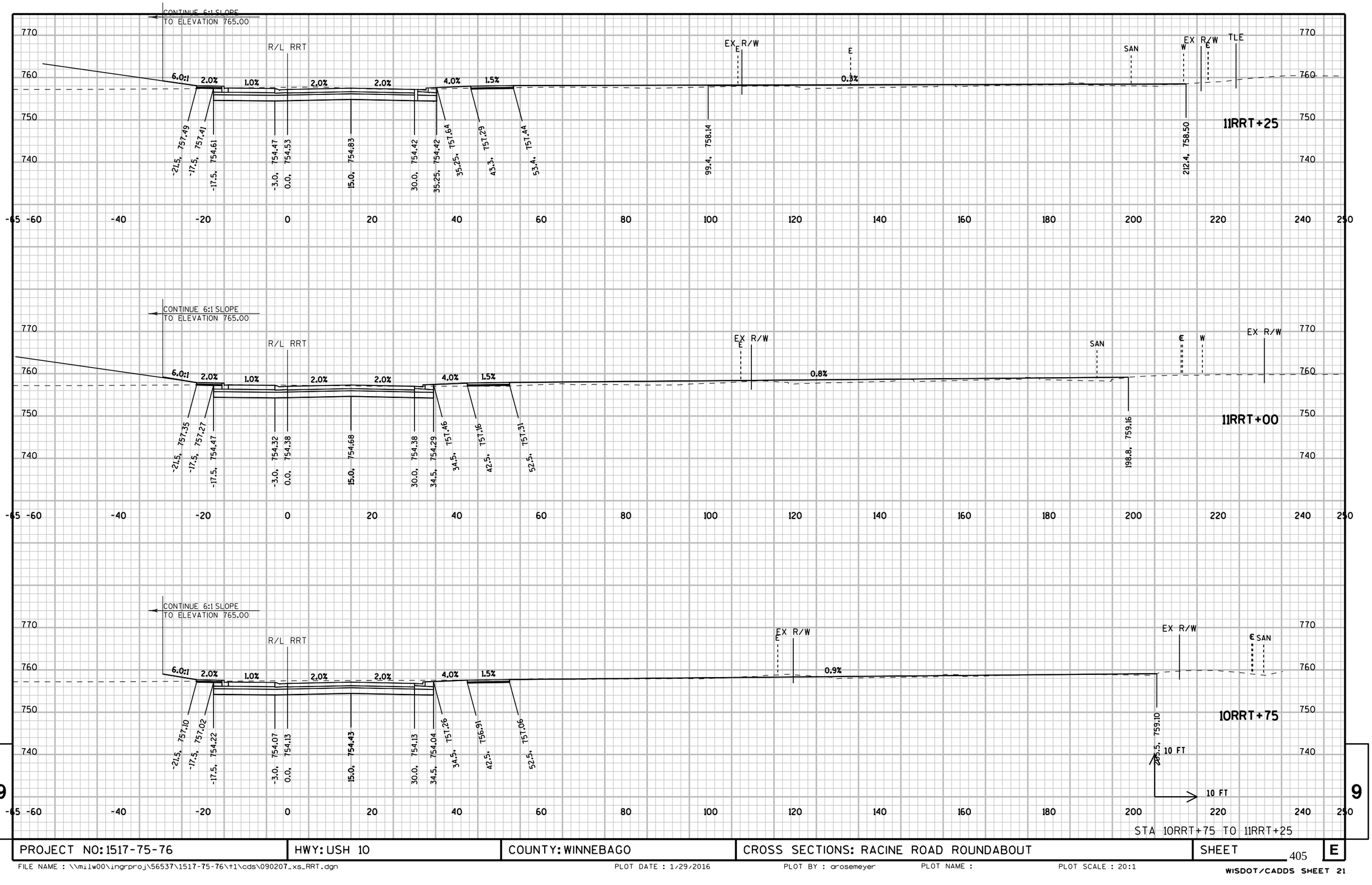
WISDOT/CADDS SHEET 21



PROJECT NO: 1517-75-76	HWY: USH 10	COUNTY: WINNEBAGO	CROSS SECTIONS: RACINE ROAD ROUNDABOUT	SHEET 404 E

STA 10RRT+00 TO 10RRT+50

9 9

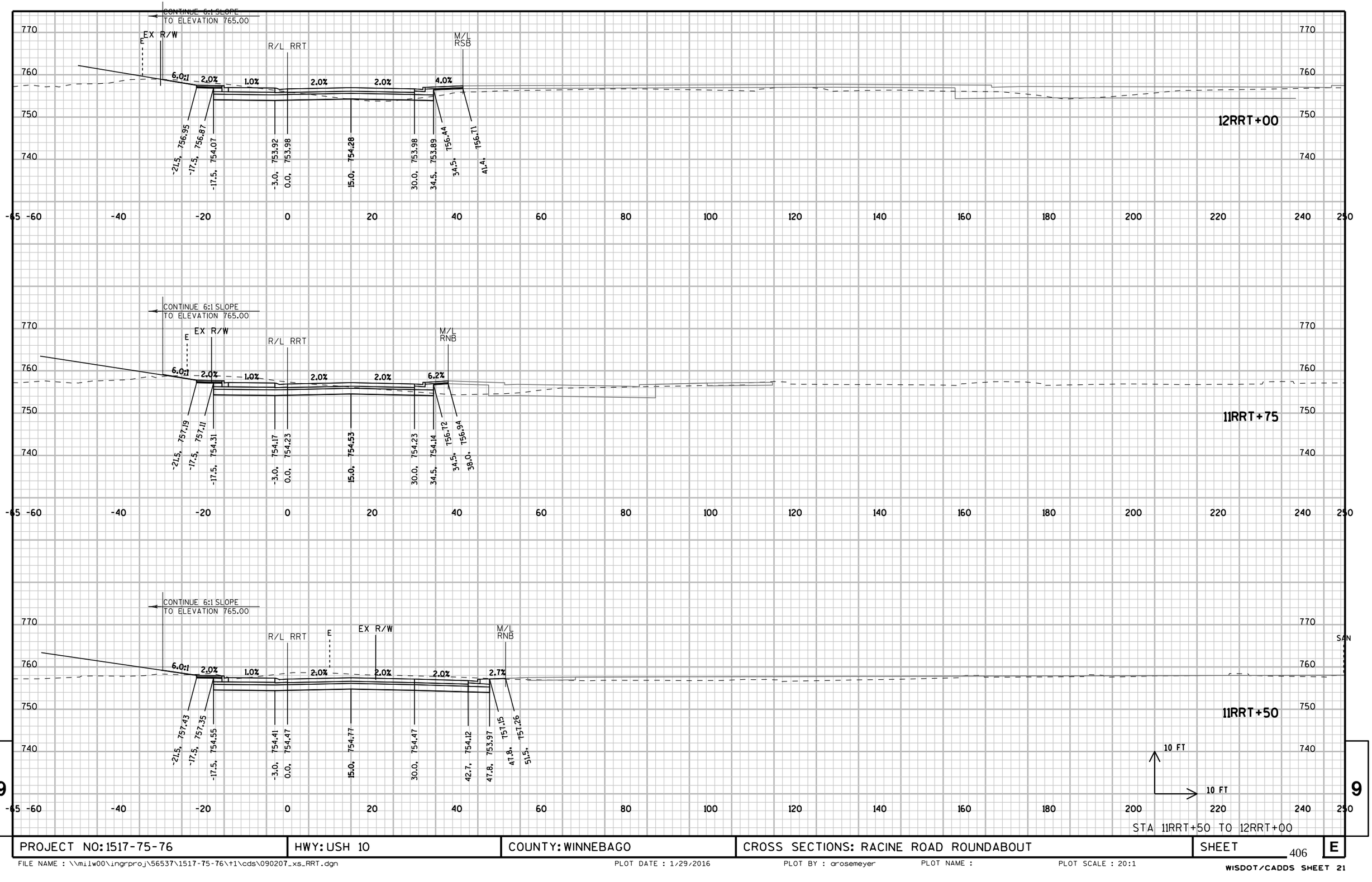


STA 10RRT+75 TO 11RRT+25

PROJECT NO: 1517-75-76	HWY: USH 10	COUNTY: WINNEBAGO	CROSS SECTIONS: RACINE ROAD ROUNDABOUT	SHEET 405	E

FILE NAME : \\milw00\ingrproj\56537\1517-75-76\t1\cds\090207_xs_RRT.dgn PLOT DATE : 1/29/2016 PLOT BY : grosemeyer PLOT NAME : PLOT SCALE : 20:1

WISDOT/CADDS SHEET 21



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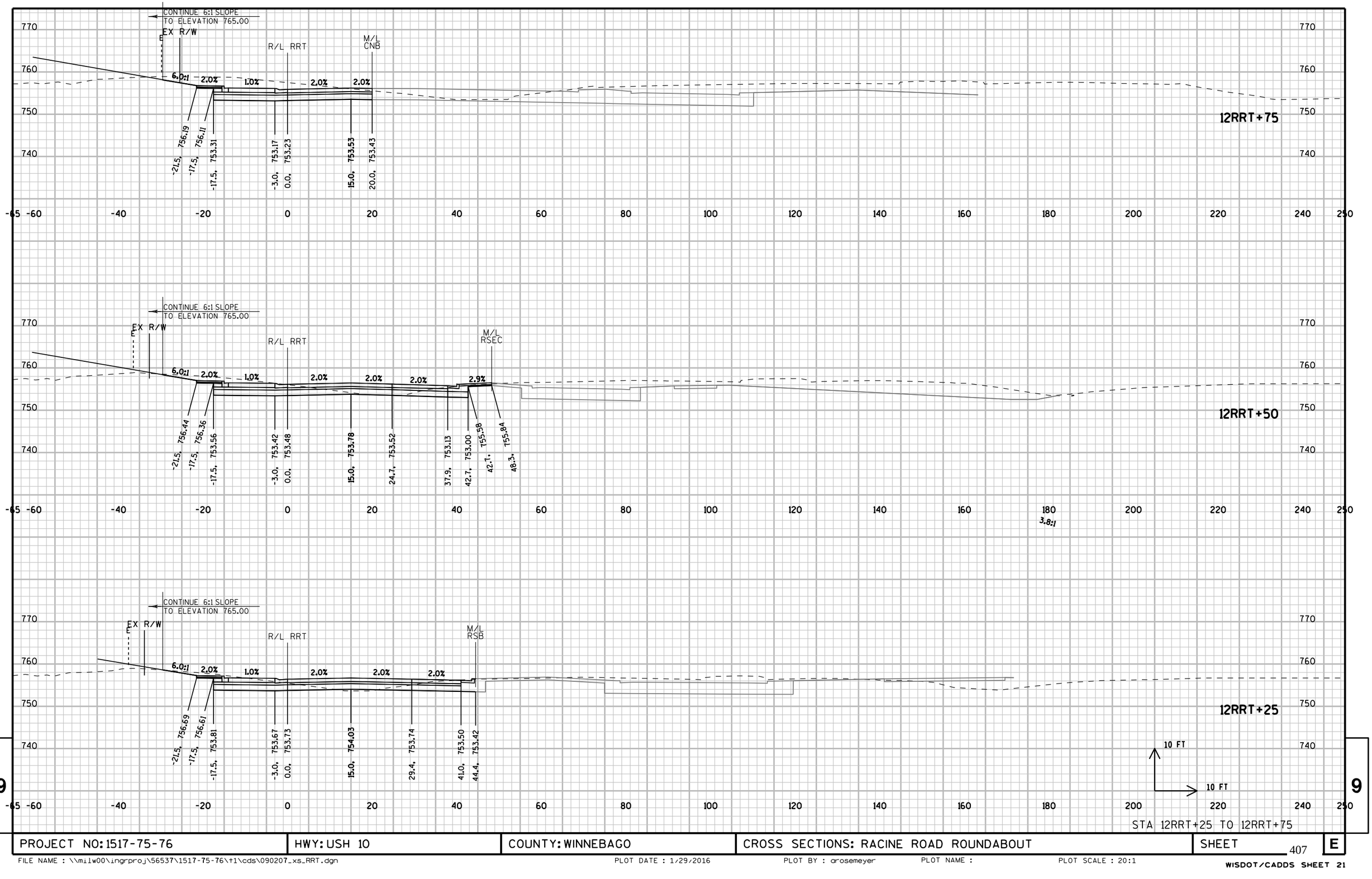
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STA 11RRT+50 TO 12RRT+00

PROJECT NO: 1517-75-76	HWY: USH 10	COUNTY: WINNEBAGO	CROSS SECTIONS: RACINE ROAD ROUNDABOUT	SHEET 406	E

FILE NAME : \\milw00\ingrproj\56537\1517-75-76\t1\cds\090207_xs_RRT.dgn PLOT DATE : 1/29/2016 PLOT BY : grosemeyer PLOT NAME : PLOT SCALE : 20:1

WISDOT/CADDS SHEET 21



9

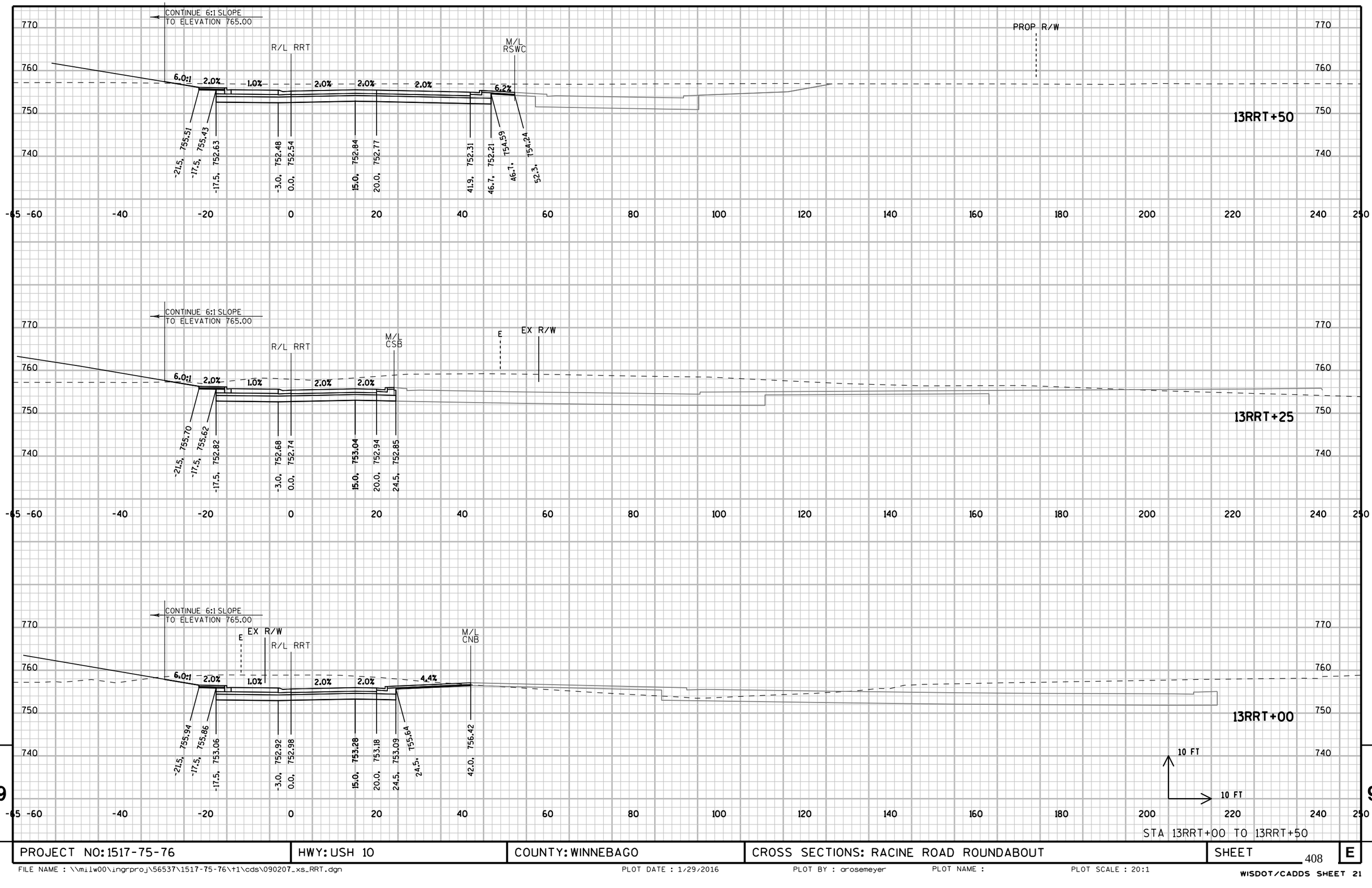
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STA 12RRT+25 TO 12RRT+75

PROJECT NO: 1517-75-76	HWY: USH 10	COUNTY: WINNEBAGO	CROSS SECTIONS: RACINE ROAD ROUNDABOUT	SHEET 407	E

FILE NAME : \\milw00\ingrproj\56537\1517-75-76\t1\cds\090207_xs_RRT.dgn PLOT DATE : 1/29/2016 PLOT BY : grosemeyer PLOT NAME : PLOT SCALE : 20:1

WISDOT/CADDS SHEET 21

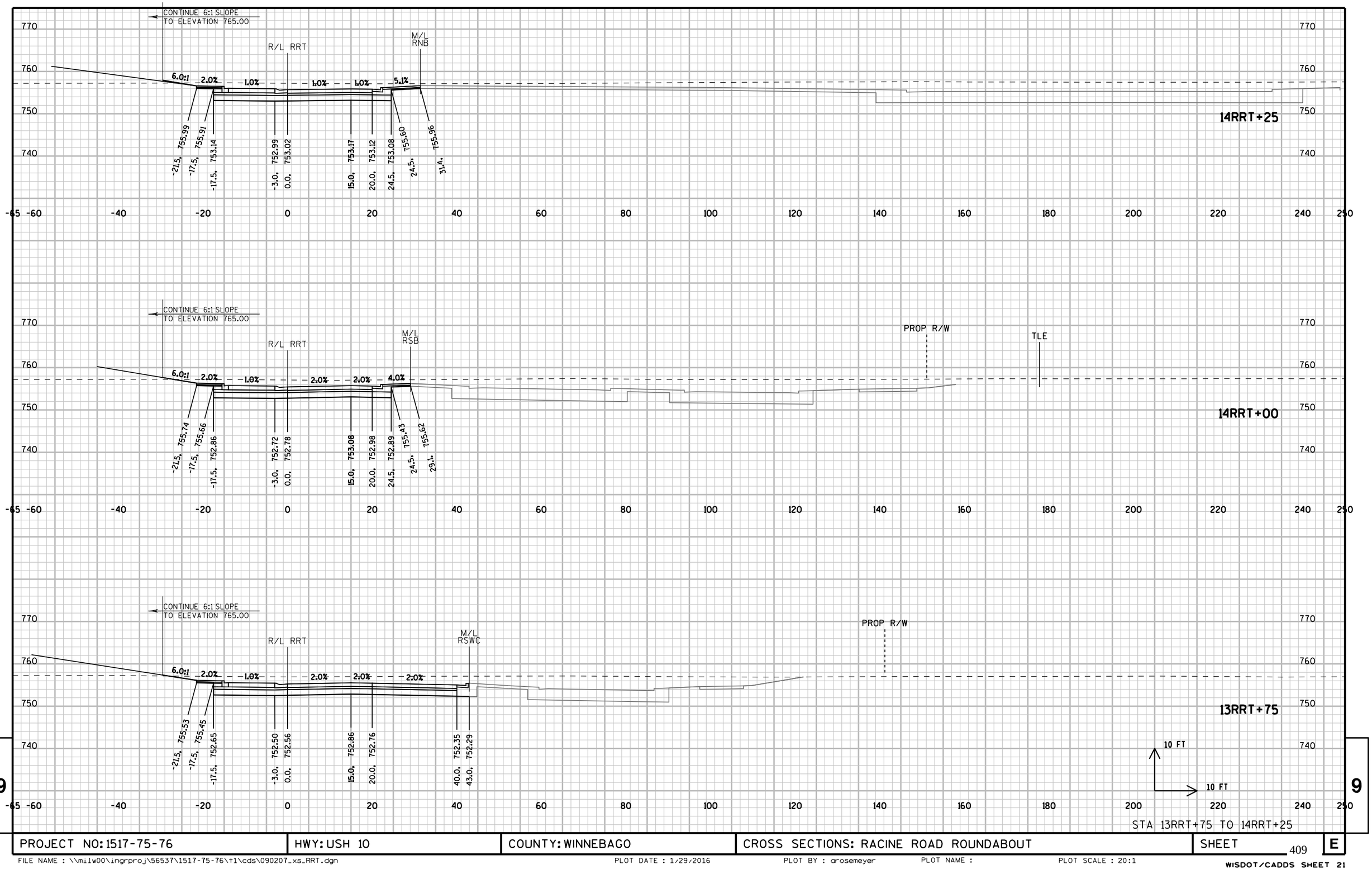


STA 13RRT+00 TO 13RRT+50

PROJECT NO: 1517-75-76	HWY: USH 10	COUNTY: WINNEBAGO	CROSS SECTIONS: RACINE ROAD ROUNDABOUT	SHEET 408	E

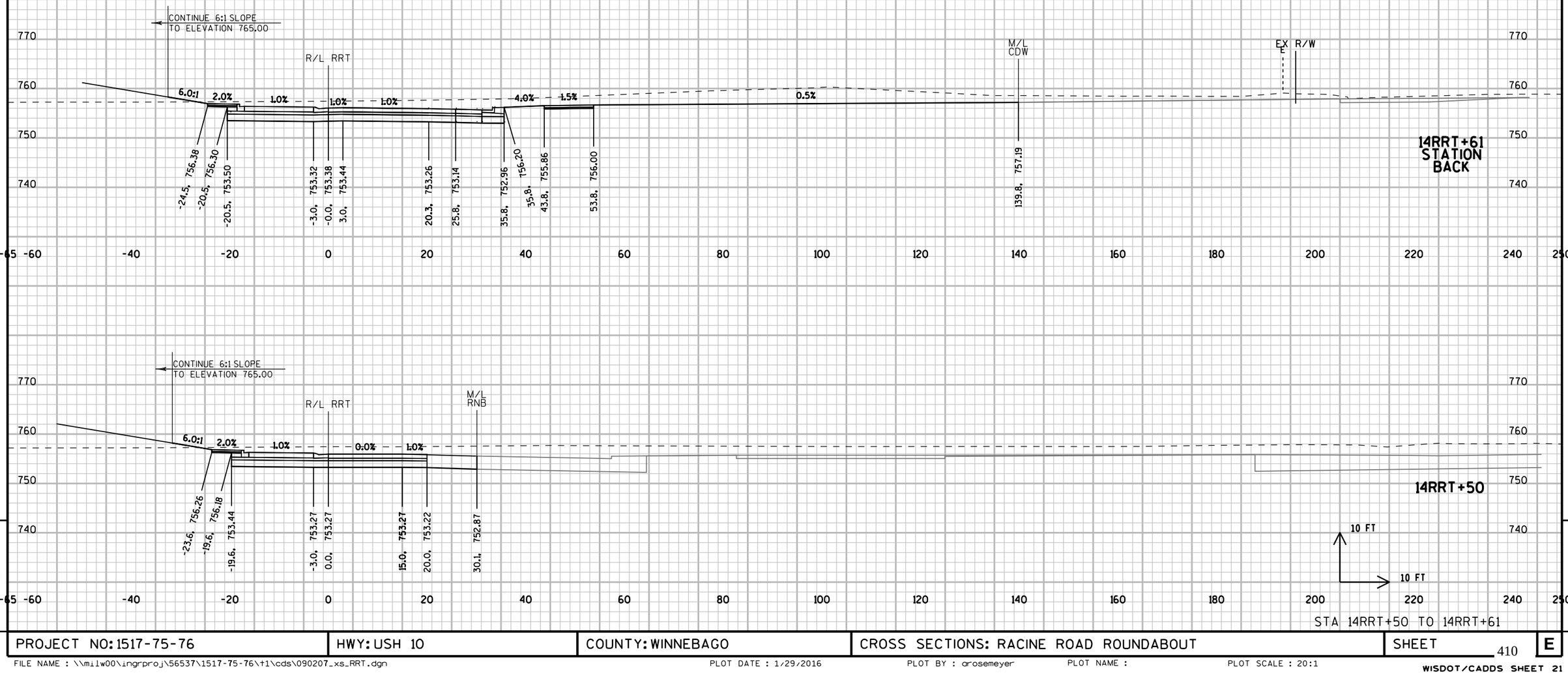
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WISDOT/CADDS SHEET 21



STA 13RRT+75 TO 14RRT+25

PROJECT NO: 1517-75-76	HWY: USH 10	COUNTY: WINNEBAGO	CROSS SECTIONS: RACINE ROAD ROUNDABOUT	SHEET 409	E



STA 14RRT+50 TO 14RRT+61

PROJECT NO: 1517-75-76	HWY: USH 10	COUNTY: WINNEBAGO	CROSS SECTIONS: RACINE ROAD ROUNDABOUT	SHEET 410	E

FILE NAME : \\milw00\ingrproj\56537\1517-75-76\t1\cds\090207_xs_RRT.dgn PLOT DATE : 1/29/2016 PLOT BY : grosemeyer PLOT NAME : PLOT SCALE : 20:1

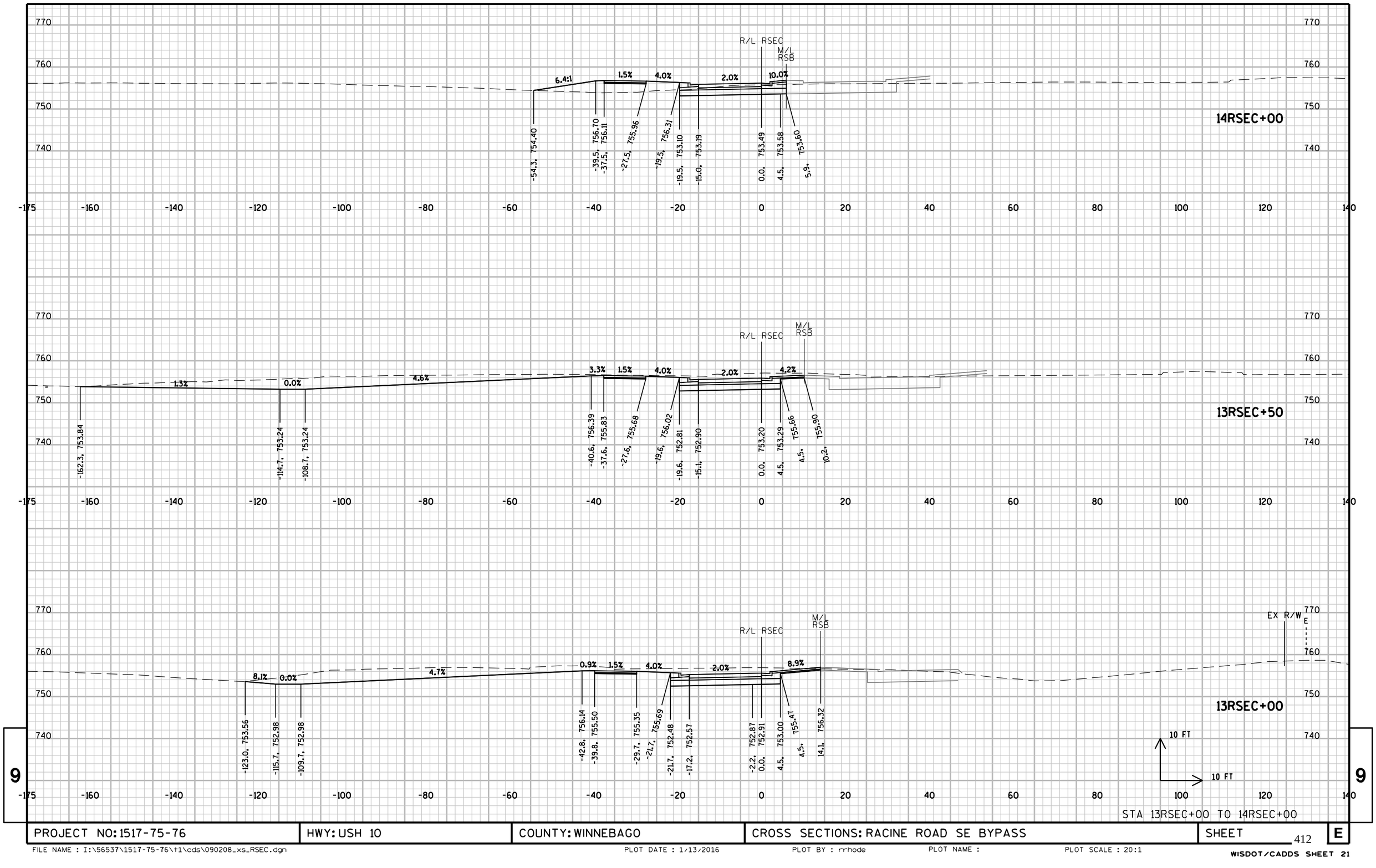
WISDOT/CADDS SHEET 21

STA 11RSEC+52 TO 12RSEC+50

PROJECT NO: 1517-75-76	HWY: USH 10	COUNTY: WINNEBAGO	CROSS SECTIONS: RACINE ROAD SE BYPASS	SHEET 411	E

FILE NAME : I:\56537\1517-75-76\t1\cds\090208_xs_RSEC.dgn PLOT DATE : 1/13/2016 PLOT BY : rrhode PLOT NAME : PLOT SCALE : 20:1

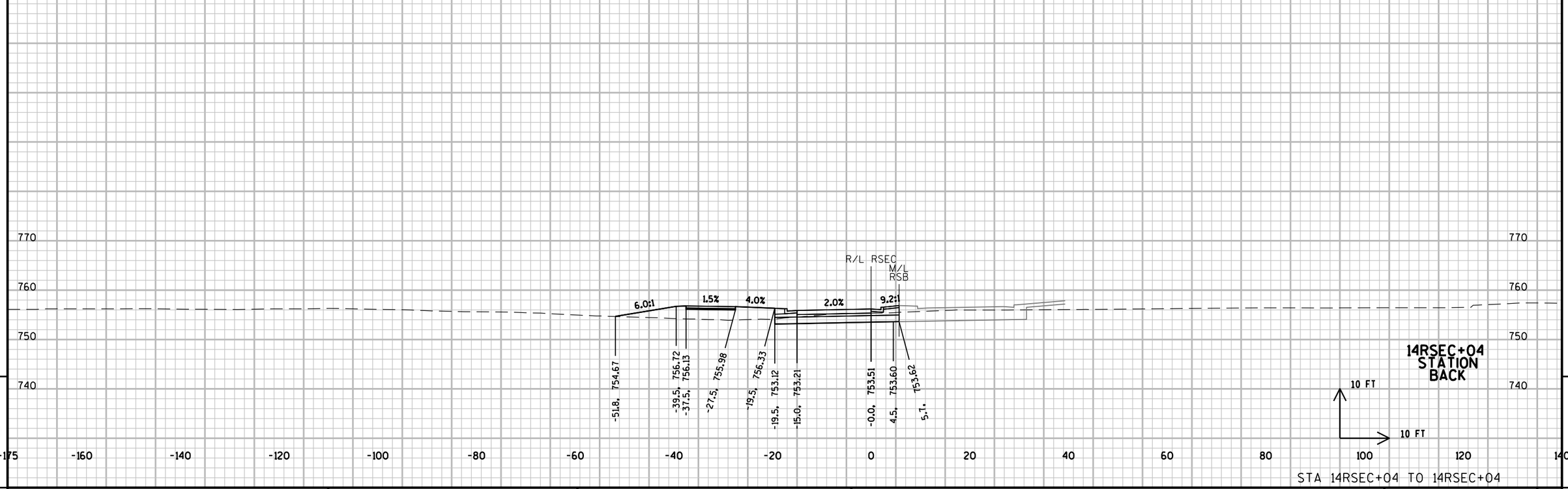
WISDOT/CADDS SHEET 21



PROJECT NO: 1517-75-76	HWY: USH 10	COUNTY: WINNEBAGO	CROSS SECTIONS: RACINE ROAD SE BYPASS	SHEET 412	E

FILE NAME : I:\56537\1517-75-76\t1\cds\090208_xs_RSEC.dgn PLOT DATE : 1/13/2016 PLOT BY : rrhode PLOT NAME : PLOT SCALE : 20:1

WISDOT/CADDS SHEET 21

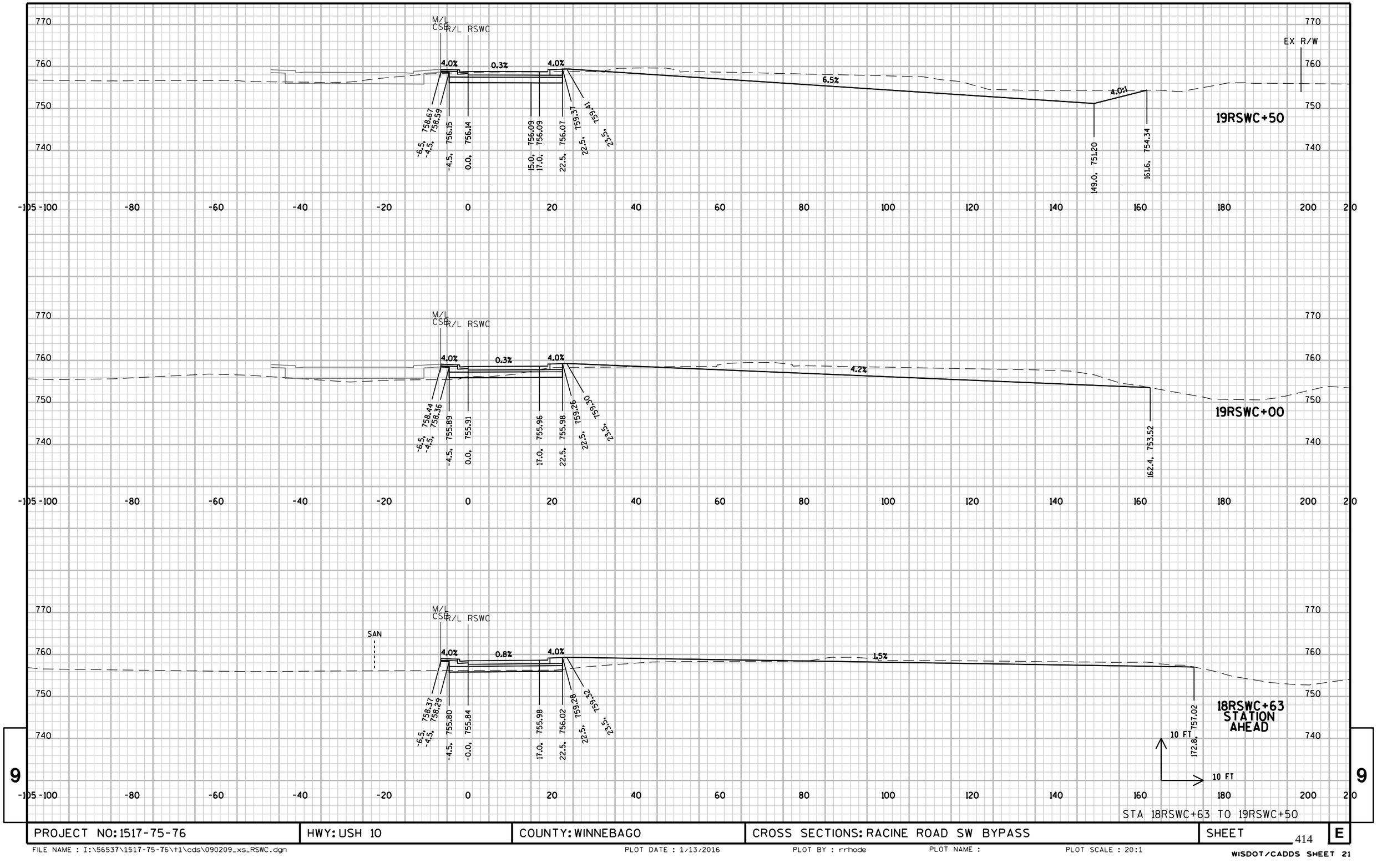


STA 14RSEC+04 TO 14RSEC+04

PROJECT NO: 1517-75-76	HWY: USH 10	COUNTY: WINNEBAGO	CROSS SECTIONS: RACINE ROAD SE BYPASS	SHEET 413	E

FILE NAME : I:\56537\1517-75-76\t1\cds\090208_xs_RSEC.dgn PLOT DATE : 1/13/2016 PLOT BY : rrhode PLOT NAME : PLOT SCALE : 20:1

WISDOT/CADDS SHEET 21



PROJECT NO: 1517-75-76	HWY: USH 10	COUNTY: WINNEBAGO	CROSS SECTIONS: RACINE ROAD SW BYPASS	SHEET 414	E

FILE NAME : I:\56537\1517-75-76\t1\cds\090209_xs_RSWC.dgn PLOT DATE : 1/13/2016 PLOT BY : rrhode PLOT NAME : PLOT SCALE : 20:1

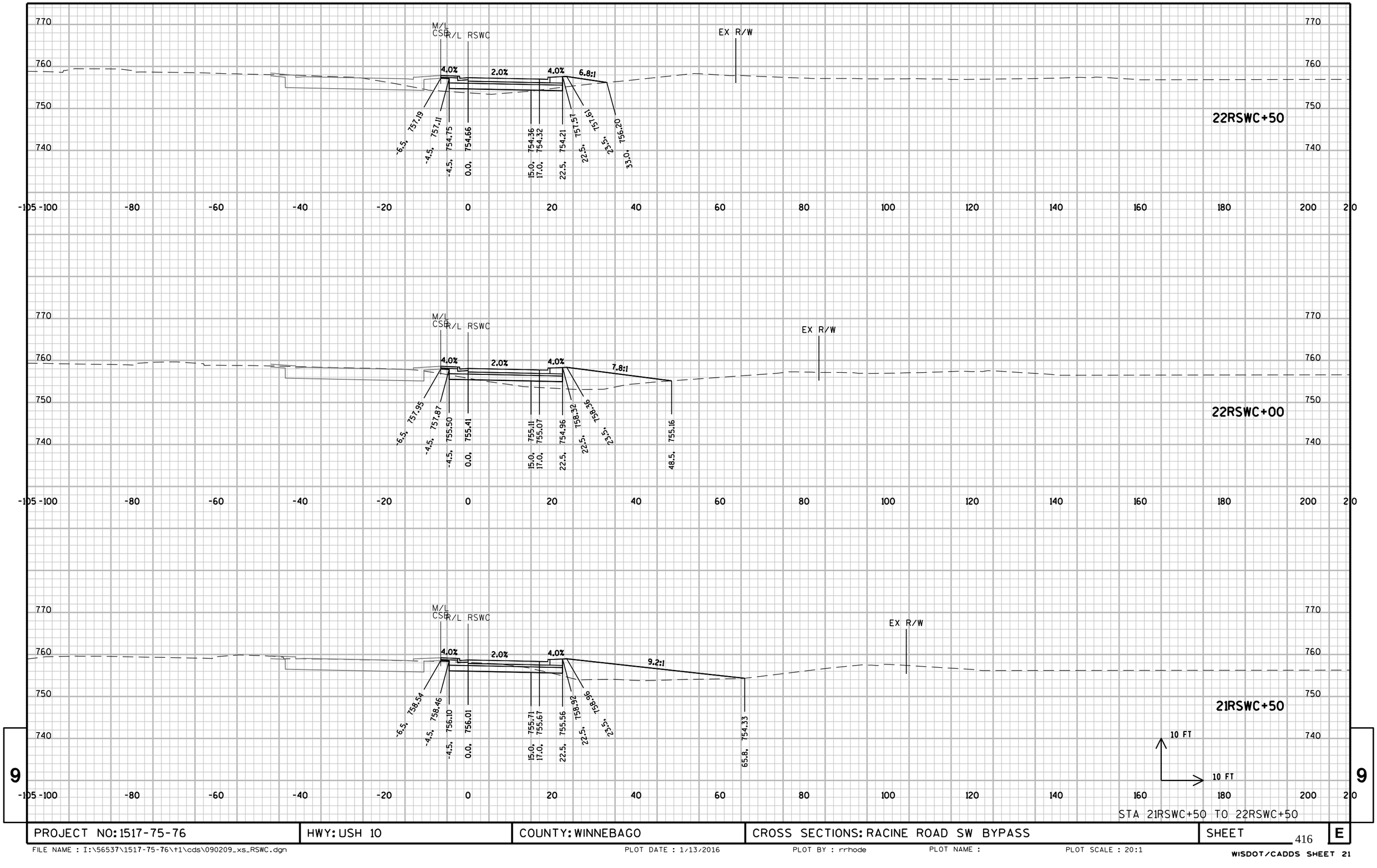
WISDOT/CADDS SHEET 21

STA 20RSWC+00 TO 21RSWC+00

PROJECT NO: 1517-75-76	HWY: USH 10	COUNTY: WINNEBAGO	CROSS SECTIONS: RACINE ROAD SW BYPASS	SHEET	E

FILE NAME : I:\56537\1517-75-76\t1\cds\090209_xs_RSWC.dgn PLOT DATE : 1/13/2016 PLOT BY : rrhode PLOT NAME : PLOT SCALE : 20:1

WISDOT/CADDS SHEET 21



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STA 21RSWC+50 TO 22RSWC+50

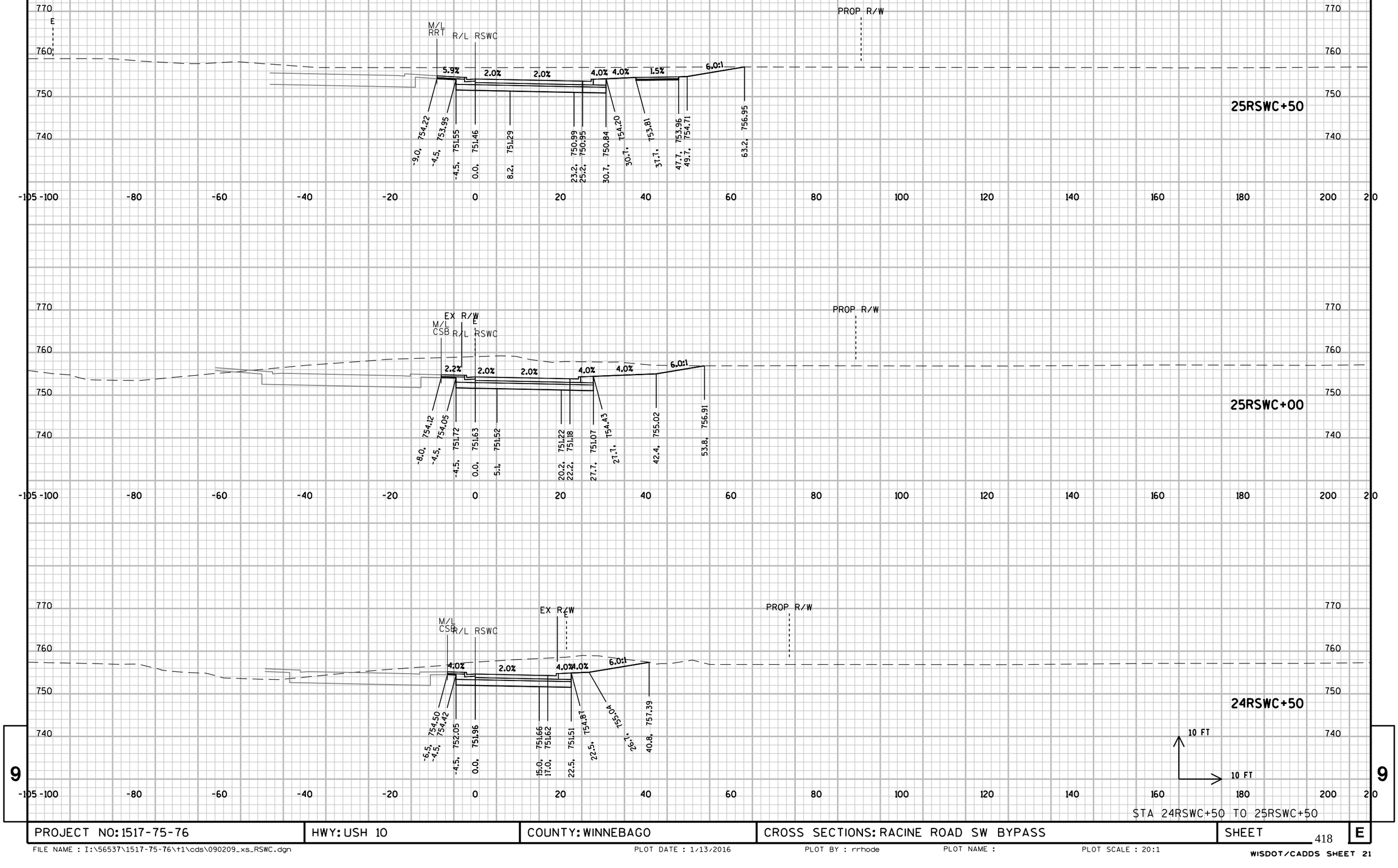
PROJECT NO: 1517-75-76	HWY: USH 10	COUNTY: WINNEBAGO	CROSS SECTIONS: RACINE ROAD SW BYPASS	SHEET	E

FILE NAME : I:\56537\1517-75-76\t1\cds\090209_xs_RSWC.dgn PLOT DATE : 1/13/2016 PLOT BY : rrhode PLOT NAME : PLOT SCALE : 20:1

WISDOT/CADDS SHEET 21

STA 23RSWC+00 TO 24RSWC+00

PROJECT NO: 1517-75-76	HWY: USH 10	COUNTY: WINNEBAGO	CROSS SECTIONS: RACINE ROAD SW BYPASS	SHEET 417	E

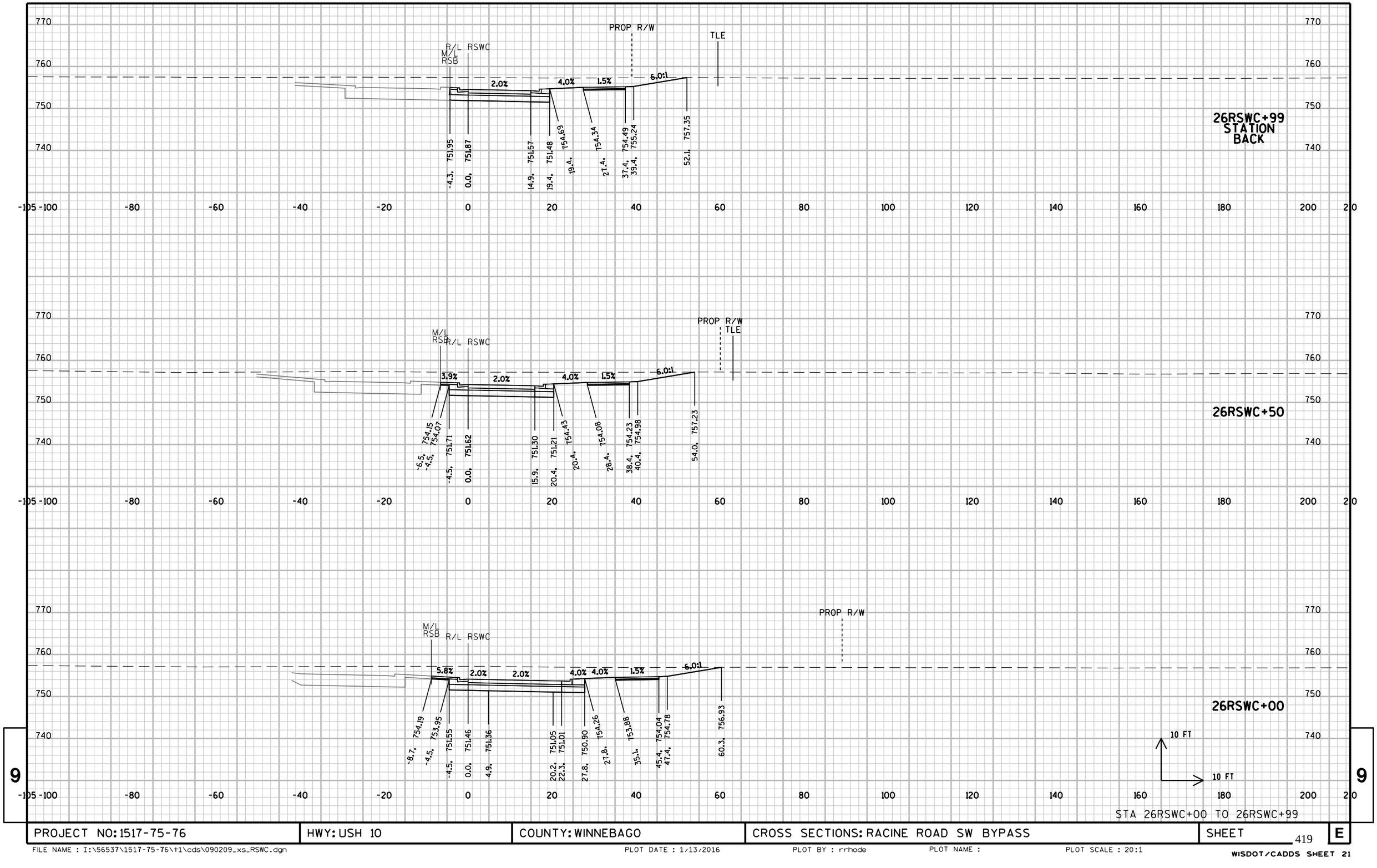


STA 24RSWC+50 TO 25RSWC+50

PROJECT NO: 1517-75-76	HWY: USH 10	COUNTY: WINNEBAGO	CROSS SECTIONS: RACINE ROAD SW BYPASS	SHEET	E

FILE NAME : I:\56537\1517-75-76\t1\cds\090209_xs_RSWC.dgn PLOT DATE : 1/13/2016 PLOT BY : rrhode PLOT NAME : PLOT SCALE : 20:1

WISDOT/CADDS SHEET 21



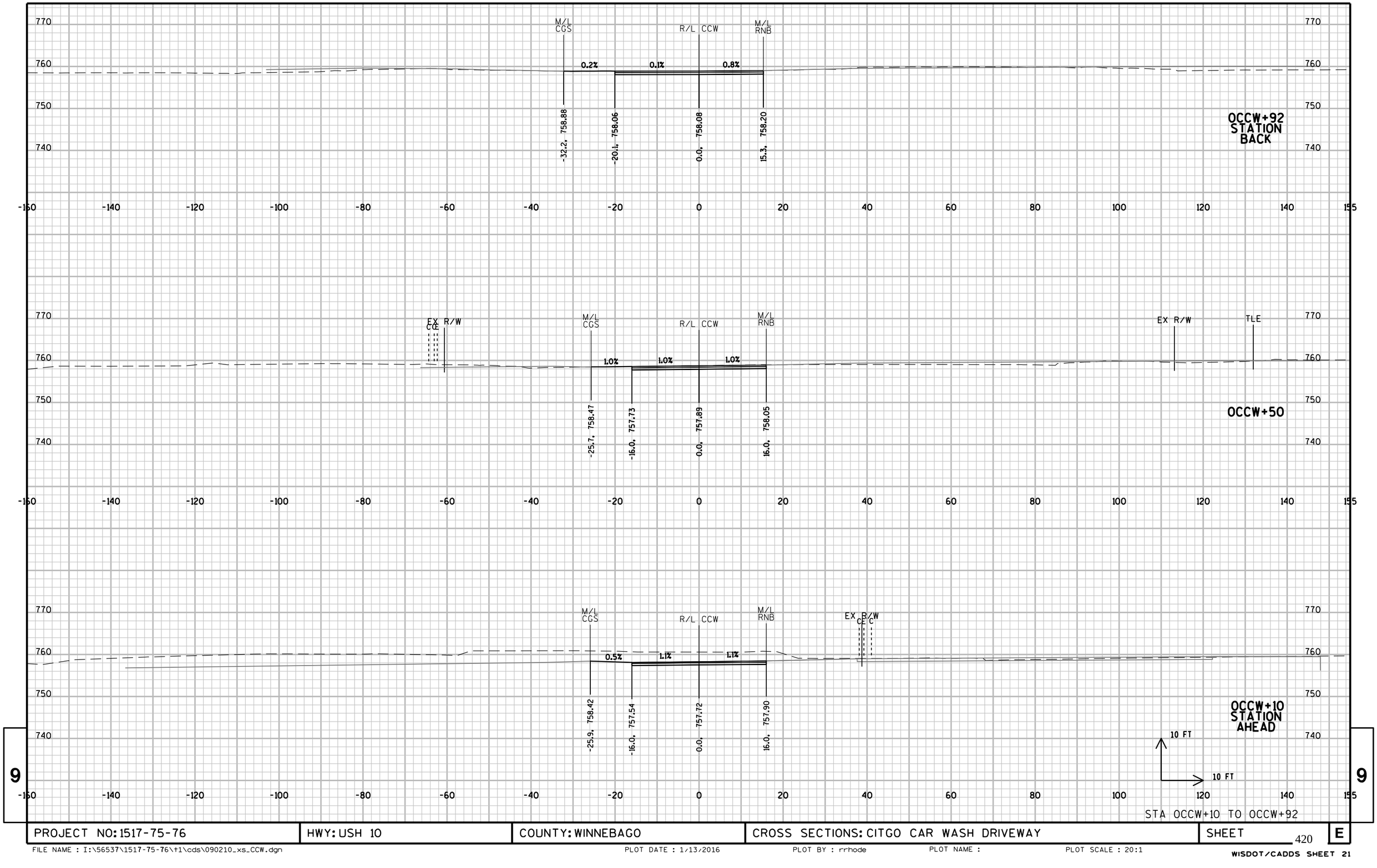
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PROJECT NO: 1517-75-76	HWY: USH 10	COUNTY: WINNEBAGO	CROSS SECTIONS: RACINE ROAD SW BYPASS	SHEET 419	E

FILE NAME : I:\56537\1517-75-76\t1\cds\090209_xs_RSWC.dgn PLOT DATE : 1/13/2016 PLOT BY : rrhode PLOT NAME : PLOT SCALE : 20:1

WISDOT/CADDS SHEET 21

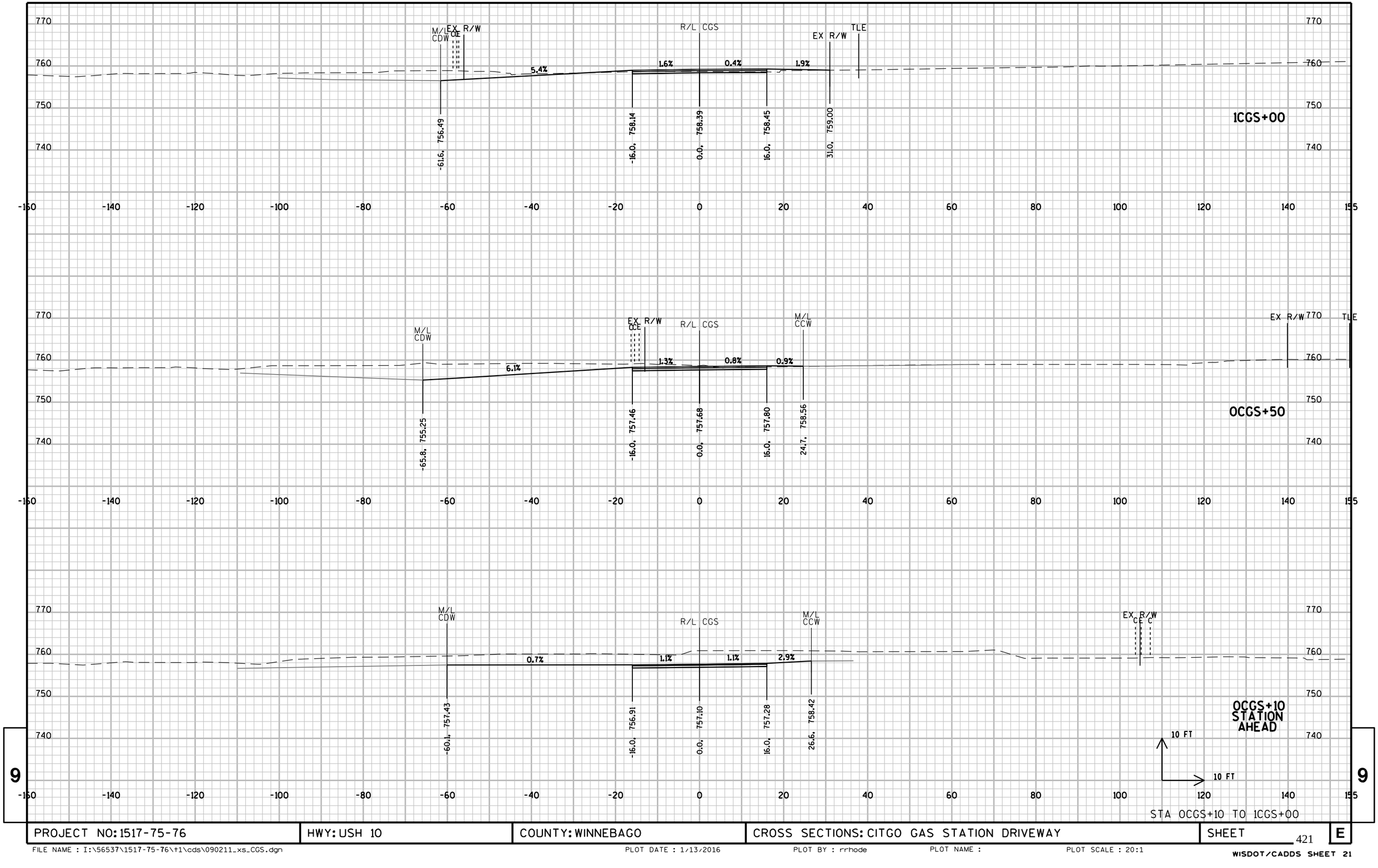


STA OCCW+10 TO OCCW+92

PROJECT NO: 1517-75-76	HWY: USH 10	COUNTY: WINNEBAGO	CROSS SECTIONS: CITGO CAR WASH DRIVEWAY	SHEET 420	E

FILE NAME : I:\56537\1517-75-76\t1\cds\090210_xs_CCW.dgn PLOT DATE : 1/13/2016 PLOT BY : rrhode PLOT NAME : PLOT SCALE : 20:1

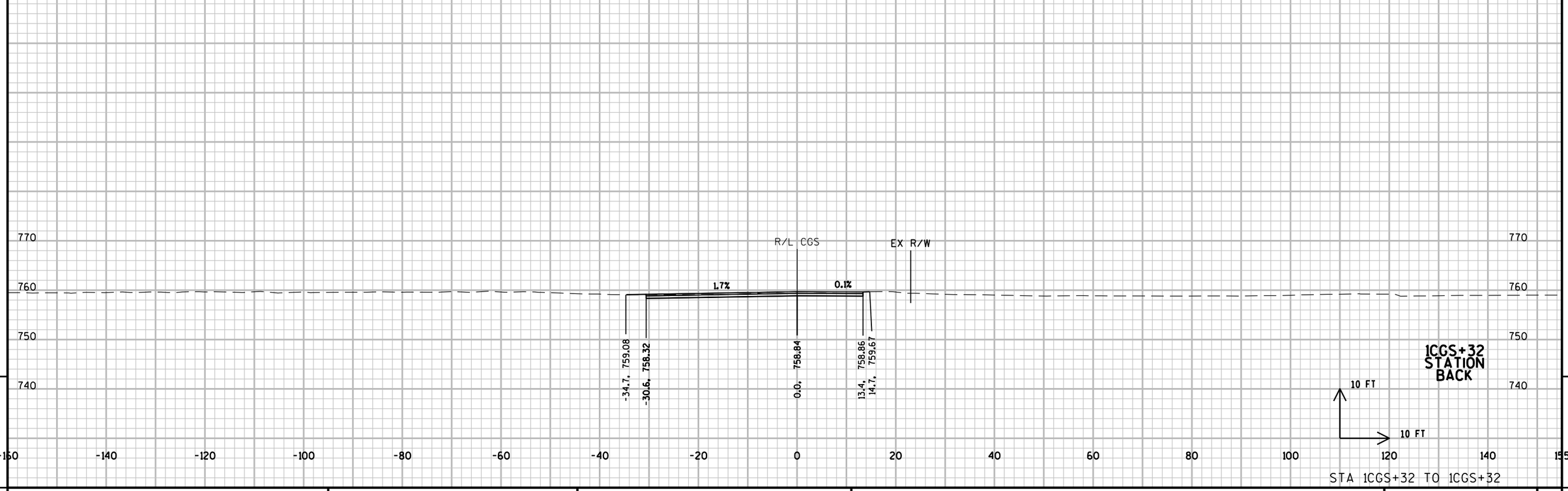
WISDOT/CADDS SHEET 21



PROJECT NO: 1517-75-76	HWY: USH 10	COUNTY: WINNEBAGO	CROSS SECTIONS: CITGO GAS STATION DRIVEWAY	SHEET 421	E

FILE NAME : I:\56537\1517-75-76\t1\cds\090211_xs_CGS.dgn PLOT DATE : 1/13/2016 PLOT BY : rrhode PLOT NAME : PLOT SCALE : 20:1

WISDOT/CADDS SHEET 21



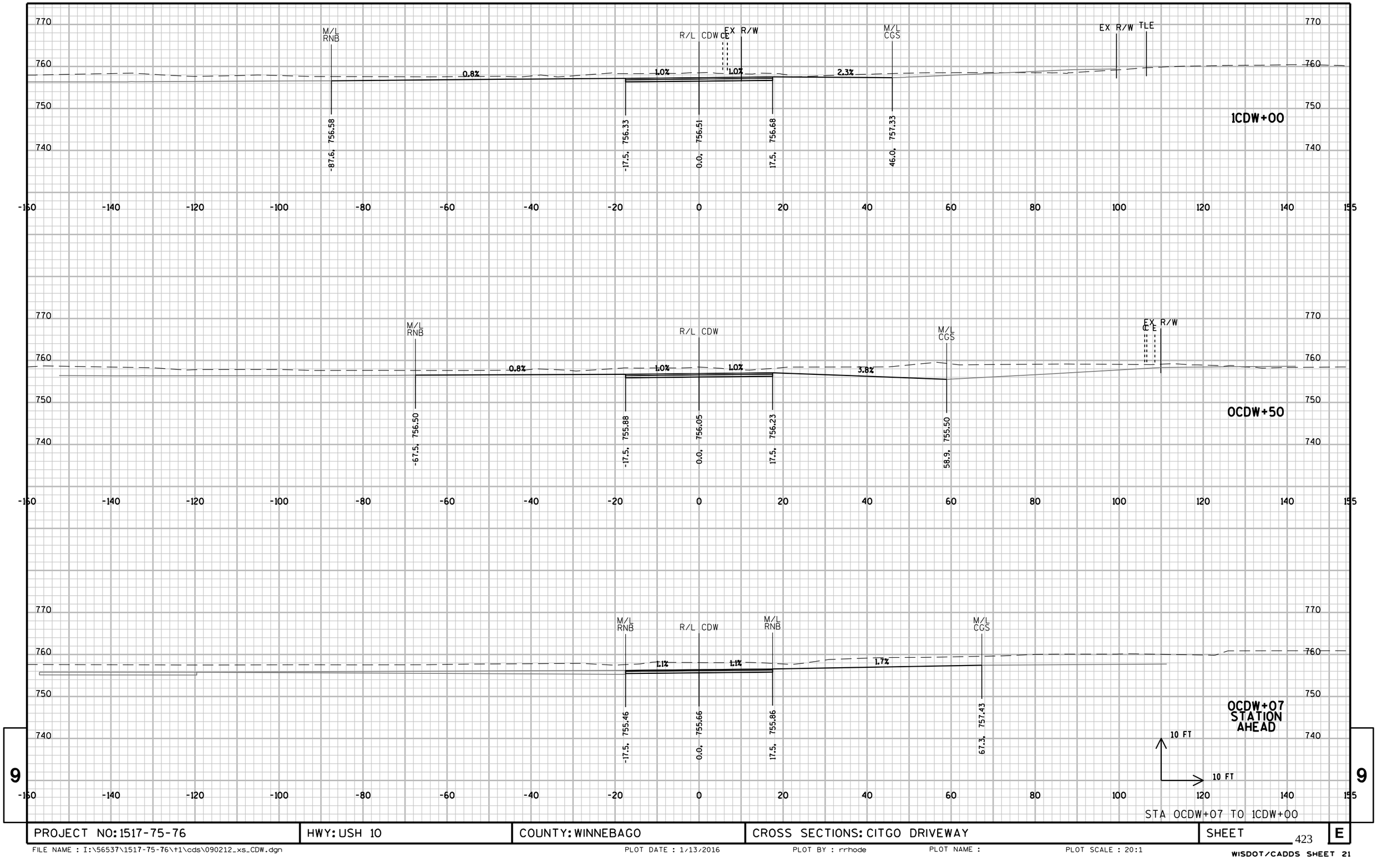
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PROJECT NO: 1517-75-76	HWY: USH 10	COUNTY: WINNEBAGO	CROSS SECTIONS: CITGO GAS STATION DRIVEWAY	SHEET 422	E

FILE NAME : I:\56537\1517-75-76\t1\cds\090211_xs_CGS.dgn PLOT DATE : 1/13/2016 PLOT BY : rrhode PLOT NAME : PLOT SCALE : 20:1

WISDOT/CADDS SHEET 21

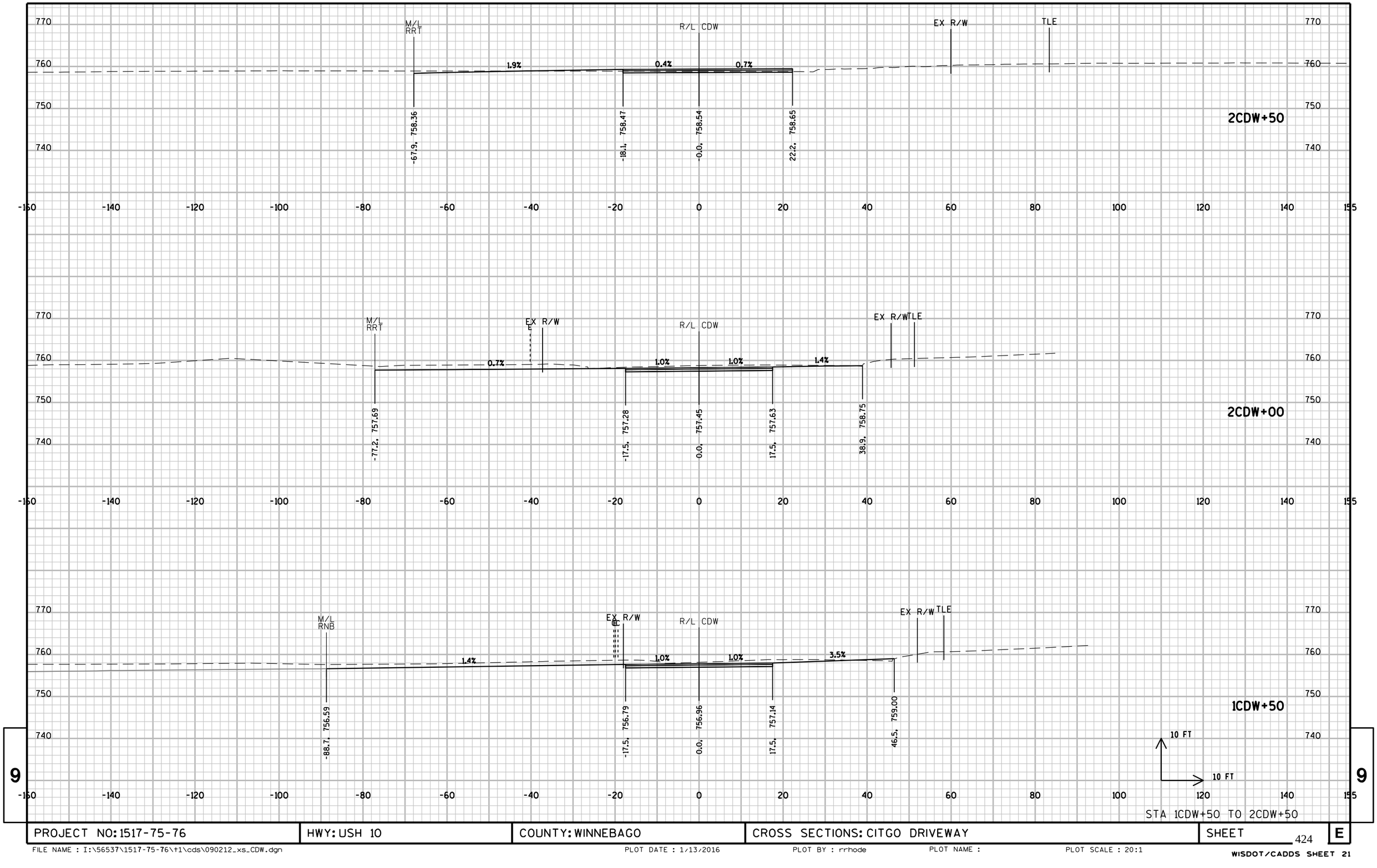


STA 0CDW+07 TO 1CDW+00

PROJECT NO: 1517-75-76	HWY: USH 10	COUNTY: WINNEBAGO	CROSS SECTIONS: CITGO DRIVEWAY	SHEET 423	E

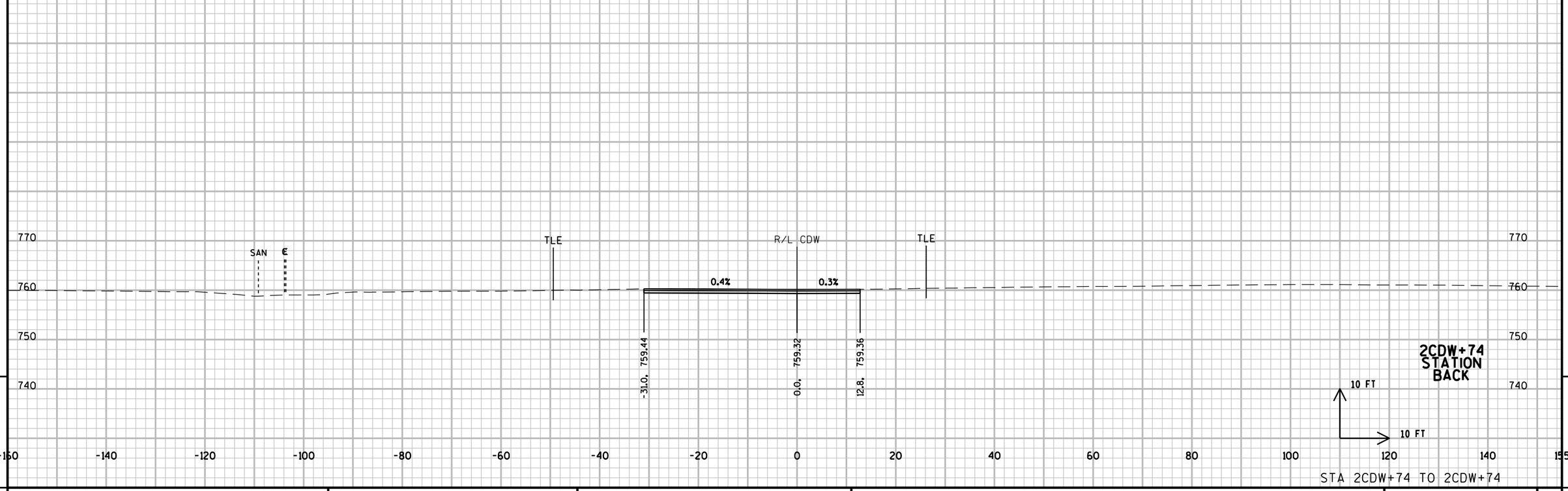
FILE NAME : I:\56537\1517-75-76\t1\cds\090212_xs_CDW.dgn PLOT DATE : 1/13/2016 PLOT BY : rrhode PLOT NAME : PLOT SCALE : 20:1

WISDOT/CADDS SHEET 21



STA 1CDW+50 TO 2CDW+50

PROJECT NO: 1517-75-76	HWY: USH 10	COUNTY: WINNEBAGO	CROSS SECTIONS: CITGO DRIVEWAY	SHEET 424	E



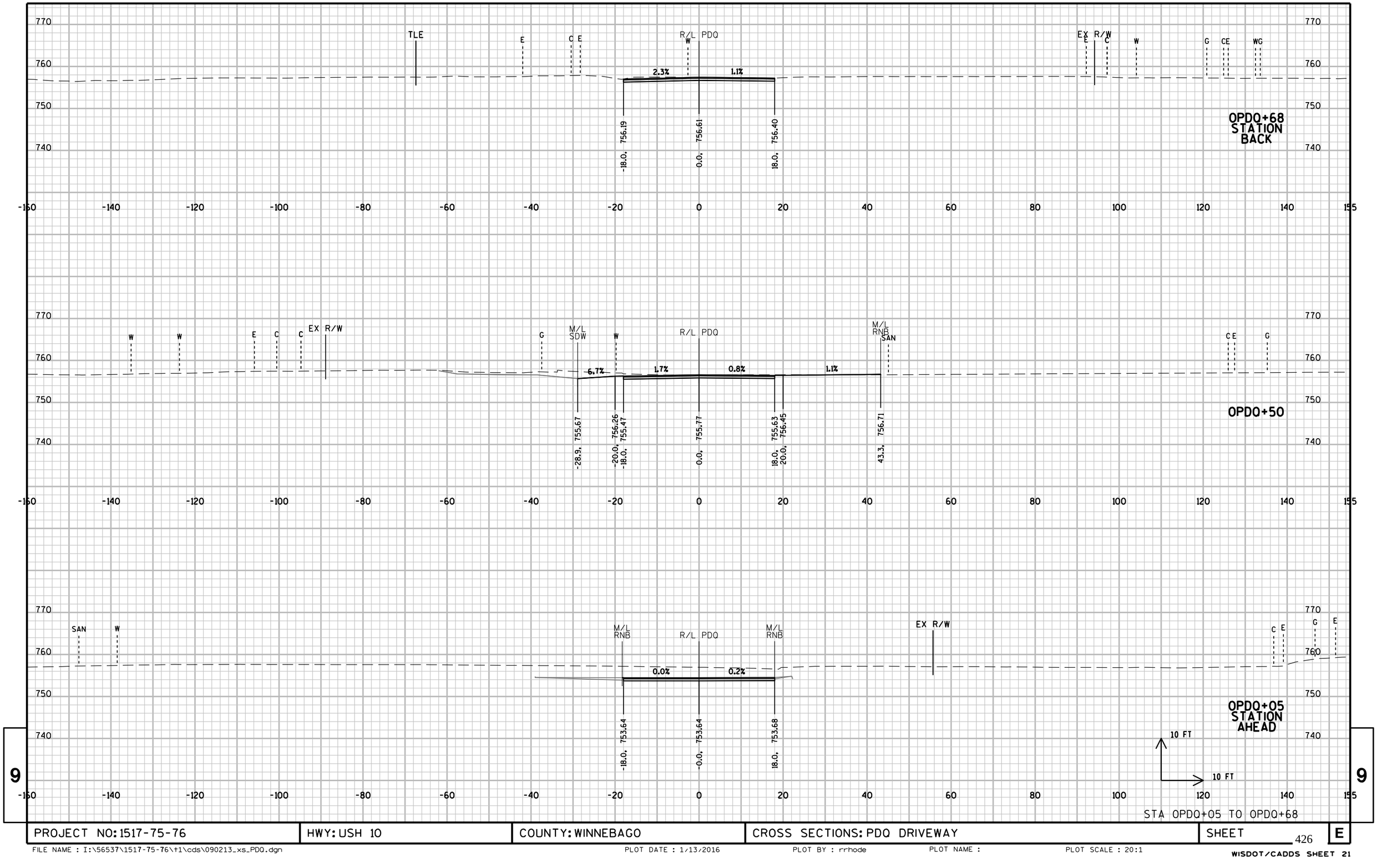
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PROJECT NO: 1517-75-76	HWY: USH 10	COUNTY: WINNEBAGO	CROSS SECTIONS: CITGO DRIVEWAY	SHEET 425	E

FILE NAME : I:\56537\1517-75-76\t1\cds\090212_xs_CDW.dgn PLOT DATE : 1/13/2016 PLOT BY : rrhode PLOT NAME : PLOT SCALE : 20:1

WISDOT/CADDS SHEET 21

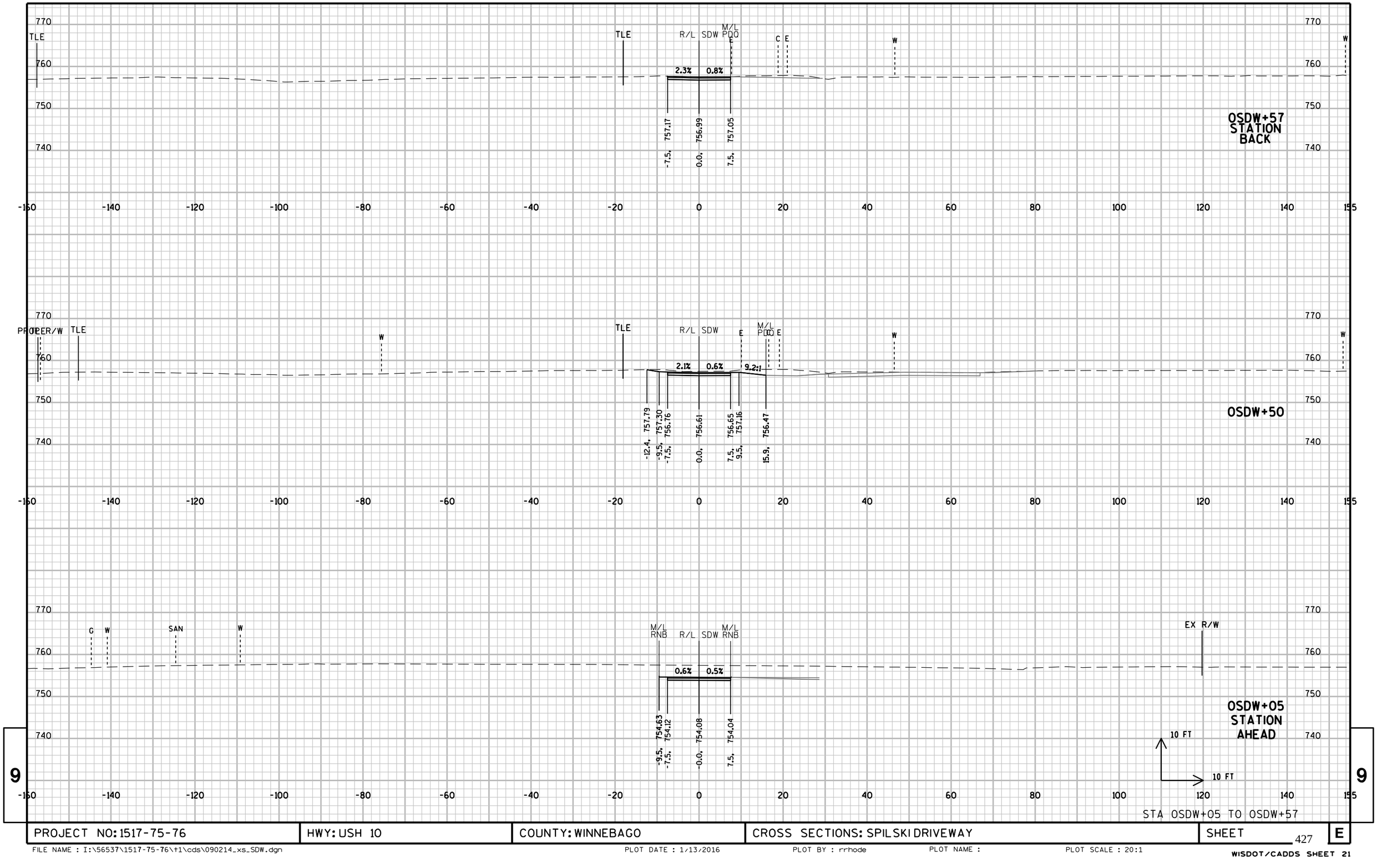


STA OPDO+05 TO OPDO+68

PROJECT NO: 1517-75-76	HWY: USH 10	COUNTY: WINNEBAGO	CROSS SECTIONS: PDO DRIVEWAY	SHEET	E

FILE NAME : I:\56537\1517-75-76\f1\cds\090213_xs_PDO.dgn PLOT DATE : 1/13/2016 PLOT BY : rrhode PLOT NAME : PLOT SCALE : 20:1

WISDOT/CADDS SHEET 21

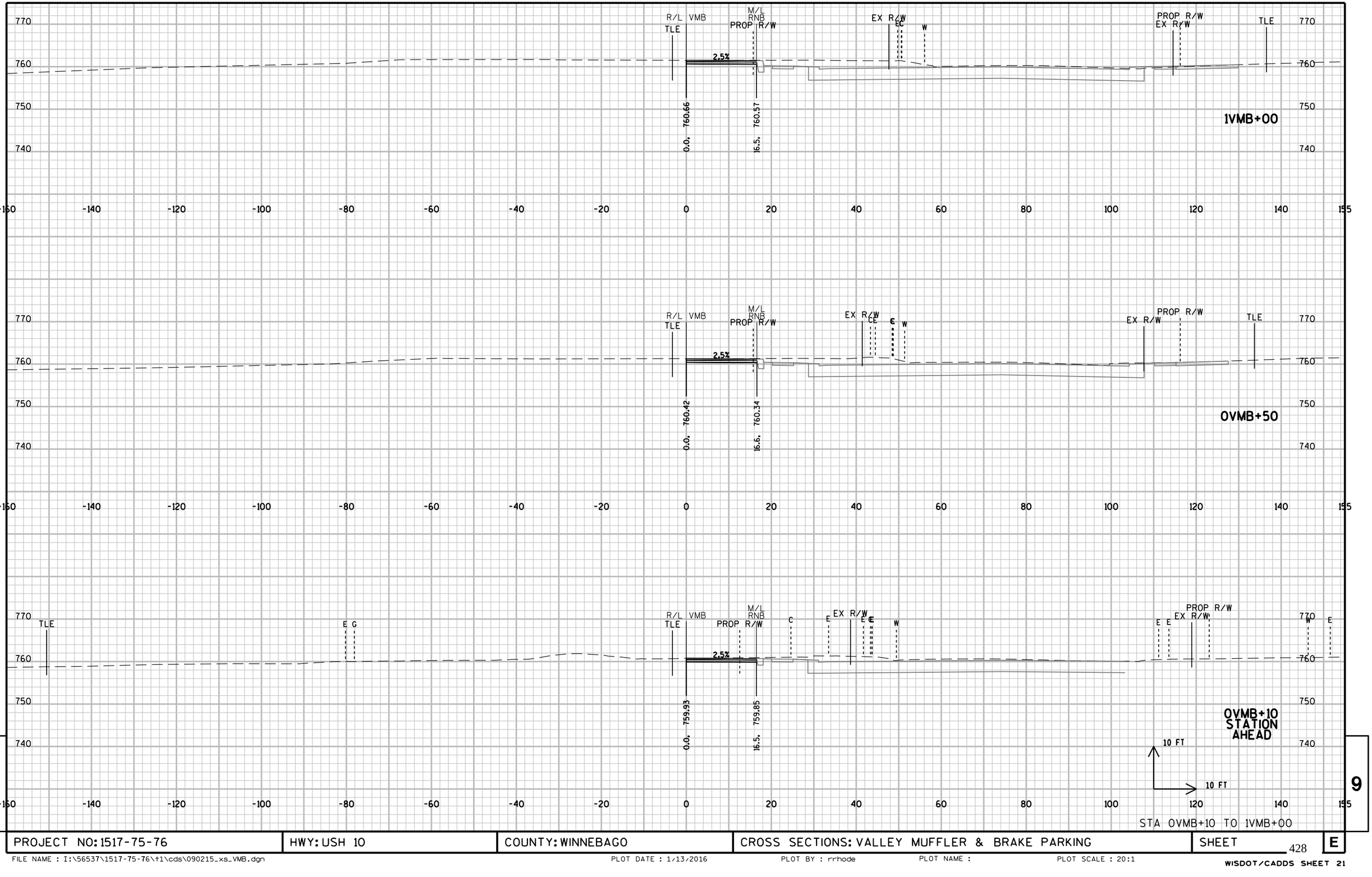


STA OSDW+05 TO OSDW+57

PROJECT NO: 1517-75-76	HWY: USH 10	COUNTY: WINNEBAGO	CROSS SECTIONS: SPILSKI DRIVEWAY	SHEET 427	E

FILE NAME : I:\56537\1517-75-76\t1\cds\090214_xs_SDW.dgn PLOT DATE : 1/13/2016 PLOT BY : rrhode PLOT NAME : PLOT SCALE : 20:1

WISDOT/CADDS SHEET 21

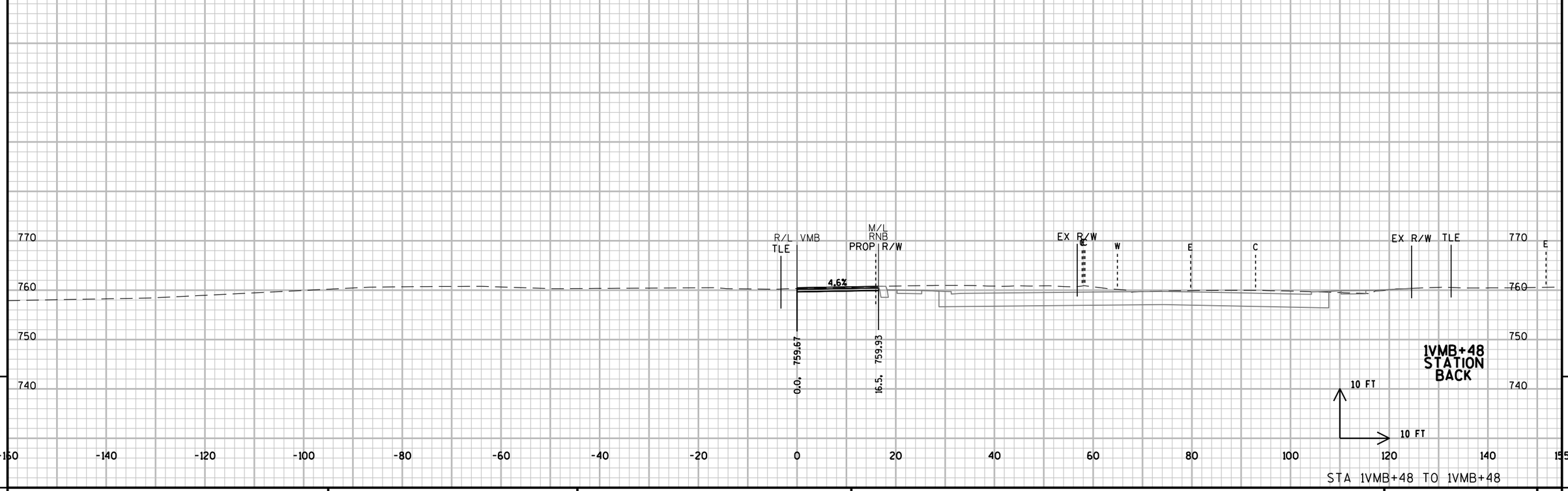


STA 0VMB+10 TO 1VMB+00

PROJECT NO: 1517-75-76	HWY: USH 10	COUNTY: WINNEBAGO	CROSS SECTIONS: VALLEY MUFFLER & BRAKE PARKING	SHEET 428	E

FILE NAME : I:\56537\1517-75-76\t1\cds\090215_xs_VMB.dgn PLOT DATE : 1/13/2016 PLOT BY : rrhode PLOT NAME : PLOT SCALE : 20:1

WISDOT/CADDS SHEET 21



STA 1VMB+48 TO 1VMB+48

9

9

PROJECT NO: 1517-75-76	HWY: USH 10	COUNTY: WINNEBAGO	CROSS SECTIONS: VALLEY MUFFLER & BRAKE PARKING	SHEET 429	E

FILE NAME : I:\56537\1517-75-76\t1\cds\090215_xs_VMB.dgn PLOT DATE : 1/13/2016 PLOT BY : rrhode PLOT NAME : PLOT SCALE : 20:1

WISDOT/CADDS SHEET 21

Wisconsin Department of Transportation

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