WIS

PROJECT ID: 1166-04-85

COUNTY: MARQUETTE

JULY 2026

ORDER OF SHEETS

Section No.	1	Title
Section No.	2	Typical Sections and Details (Includes Erosion Control 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 = 456

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

PLAN OF PROPOSED IMPROVEMENT

PORTAGE - COLOMA

FAWN COURT TO WAUSHARA CO LINE, SB

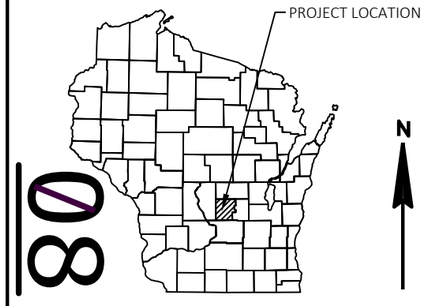
IH 39

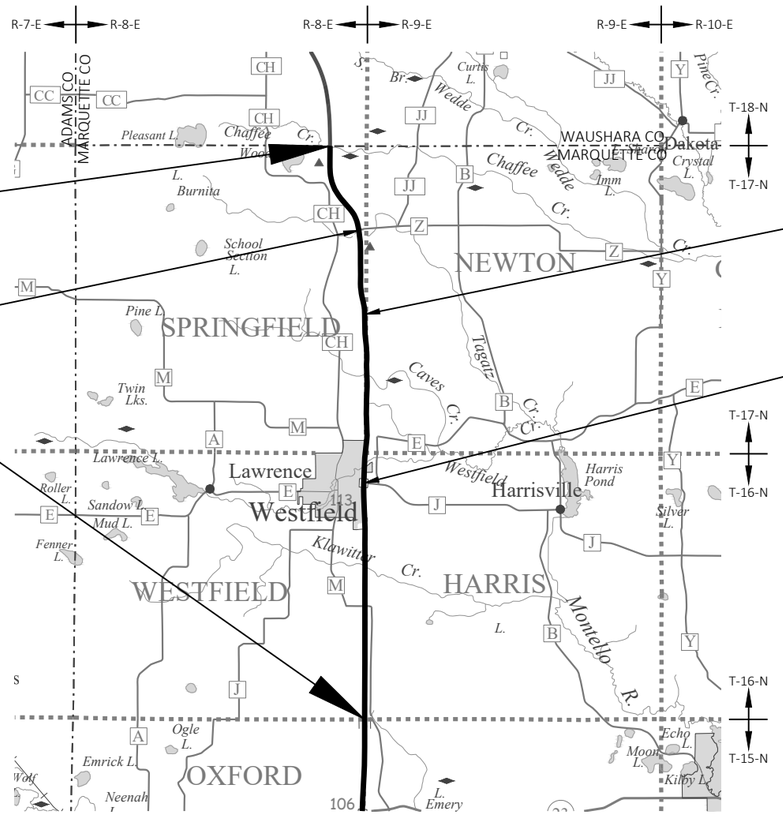
MARQUETTE COUNTY

STATE PROJECT	FEDERAL PROJECT	
	PROJECT	CONTRACT
1166-04-85	WISC 2026402	1

STATE PROJECT NUMBER

1166-04-85





END PROJECT 1166-04-85
STA 1359'SB'+03.11

STRUCTURE B-39-0040
EXCEPTION TO NET CL LENGTH
STA 1261'SB'+25.25 - STA 1262'SB'+40.39

BEGIN PROJECT 1166-04-85
STA 747'SB'+08.00
Y = 263,429.892
X = 431,397.752

STRUCTURE B-39-0033
EXCEPTION TO NET CL LENGTH
STA 1173'SB'+59.02 - STA 1174'SB'+74.02

STRUCTURE B-39-0031
EXCEPTION TO NET CL LENGTH
STA 996'SB'+65.92 - STA 998'SB'+27.92

LAYOUT

SCALE 0 3 MI

TOTAL NET LENGTH OF CENTERLINE = 11.516 MI

DESIGN DESIGNATION IH 39 SB

A.A.D.T.	2025	=	6,700 - 7,460 (SB LANES ONLY)
A.A.D.T.	2045	=	6,700 - 7,460 (SB LANES ONLY)
D.H.V.		=	1,850 (SB LANES ONLY)
D.D.		=	58/42
T.		=	15.6% - 17.6%
DESIGN SPEED		=	70 MPH
ESALS		=	8,913,000

CONVENTIONAL SYMBOLS

PLAN

- CORPORATE LIMITS
- PROPERTY LINE
- LOT LINE
- LIMITED HIGHWAY EASEMENT
- EXISTING RIGHT OF WAY
- PROPOSED OR NEW R/W LINE
- SLOPE INTERCEPT
- REFERENCE LINE (300'EB')
- 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

- ELECTRIC (E)
- FIBER OPTIC (FO)
- GAS (G)
- SANITARY SEWER (SAN)
- STORM SEWER (SS)
- TELEPHONE (T)
- WATER (W)
- UTILITY PEDESTAL
- POWER POLE
- TELEPHONE POLE

HORIZONTAL POSITIONS SHOWN ON THIS PLAN ARE WISCONSIN COORDINATE REFERENCE SYSTEM (WISCRS), MARQUETTE COUNTY, NAD83 (2011), IN U.S. SURVEY FEET. POSITIONS SHOWN ARE GRID COORDINATES, GRID BEARINGS, AND GRID DISTANCES. GRID DISTANCES ARE THE SAME AS GROUND DISTANCES.

ELEVATIONS ARE REFERENCED TO NAVD 88 (2012). GPS DERIVED ELEVATIONS ARE BASED ON GEOID 18.

ORIGINAL PLANS PREPARED BY

MSA

146 N. Central Ave. Suite 201 Marshfield, WI 54449
715-384-2133 1-800-362-4505 Fax: 715-384-9787

WISCONSIN
ALEX A PASSOW
E-46488
DE PERE
WI
PROFESSIONAL ENGINEER

DATE: 4/17/2026 (Professional Engineer Signature)

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

PREPARED BY

Surveyor	MSA PROFESSIONAL SERVICES, INC
Designer	MSA PROFESSIONAL SERVICES, INC
Project Manager	TODD LASKA
Regional Examiner	FRED SCHUNKE
Regional Supervisor	NICHOLE LYSNE

APPROVED FOR THE DEPARTMENT

DATE: 4/20/26 (Signature)

E

GENERAL NOTES

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.

STATIONING FOR SIGNS SHOWN IN THE PLANS ARE APPROXIMATE AND THE FINAL LOCATION OF SIGNS ARE TO BE DETERMINED BY THE ENGINEER.

OVERSAWING OF CONCRETE IS NOT ALLOWED.

ORDER OF SECTION 2 DETAIL SHEETS

GENERAL NOTES
PROJECT OVERVIEW
TYPICAL SECTIONS
CONSTRUCTION AND EROSION CONTROL DETAILS
CURB RAMP DETAILS
INTERSECTION DETAILS
PAVING DETAILS
STORM SEWER
LIGHTING PLAN
PAVEMENT MARKING
TRAFFIC CONTROL

WISCONSIN DNR LIAISON

MARTY DILLENBURG
OSHKOSH SERVICE CENTER
625 E COUNTY ROAD Y, SUITE 70
OSHKOSH, WI 54901-9731
PHONE: 920-410-7428
EMAIL: MARTY.DILLENBURG@WISCONSIN.GOV

BUREAU OF HIGHWAY MAINTENANCE (REST AREA CONTACT)

JOE COUGHLIN, PE
FREIGHT MANAGEMENT/OSOW AND ROADSIDE FACILITY ENGINEER
PHONE: 608-716-1963
EMAIL: JOSEPH.COUGHLIN@DOT.WI.GOV

UTILITIES CONTACTS

ADAMS-COLUMBIA ELECTRIC
ELECTRICITY
STEVE LOIS
P.O. BOX 70
FRIENDSHIP, WI 53934
PHONE: 800-831-8629 EXT. 436
EMAIL: SLOIS@ACECWI.COM

ALLIANT ENERGY
ELECTRICITY
COREY CLINCH
880 N WISCONSIN STREET
BERLIN, WI 54923
PHONE: 920-361-5668
EMAIL: COREYCLINCH@ALLIANTENERGY.COM

ATC MANAGEMENT, INC.
ELECTRICITY-TRANSMISSION
DOUG VOSBERG
2489 RINDEN ROAD
COTTAGE GROVE, WI 53527
PHONE: 608-877-7650
EMAIL: DVOSBERG@ATCLLC.COM

FRONTIER COMMUNICATIONS OF WI LLC
COMMUNICATIONS LINE
CHRIS POLLACK
521 4TH STREET
WAUSAU, WI 54403
PHONE: 715-847-1240
EMAIL: CHRISTOPHER.POLLACK@FTR.COM

MARQUETTE ADAMS TELEPHONE COOP INC
COMMUNICATION LINE
RUSS PRACHEL
P.O. BOX 45
OXFORD, WI 53952
PHONE: 608-586-7065
EMAIL: RPRACHEL@MAADTELCO.COM

PIONEER POWER AND LIGHT COMPANY
ELECTRICITY
DENNIS DAHKLE
P.O. BOX 309
WESTFIELD, WI 53964
PHONE: 608-296-2149
EMAIL: PIONEERPOWERQUOTE@GMAIL.COM

SPECTRUM
COMMUNICATION LINE
GLEN JAKUSZ
2701 DANIELS STREET
MADISON, WI 53711
PHONE: 608-209-3202
EMAIL: GLEN.JAKUSZ@CHARTER.COM

WE ENERGIES
GAS/PETROLEUM
LARRY KOCH
1921 8TH STREET SOUTH
WISCONSIN RAPIDS, WI 54494
PHONE: 715-421-7249
EMAIL: LARRY.KOCH@WE-ENERGIES.COM

DIGGERS HOTLINE
Dial 811 or (800)242-8511
www.DiggersHotline.com

PAVEMENT CORING LOG

BORING NO.	STATION	OFFSET FROM CL	ASPHALT DEPTH (INCHES)	UNDERLYING MATERIAL
44	749+48.34	29' LT	7"	BASE
45	764+48.34	2' RT	9.25"	BASE
46	779+48.34	4' LT	13"	BASE
47	794+48.34	20' LT	11.25"	BASE
48	809+48.34	29' LT	8.5"	BASE
49	824+48.34	2' RT	9.75"	BASE
50	839+48.34	4' LT	12"	BASE
51	854+48.34	20' LT	11.5"	BASE
90	868+92.73	4' LT	7.5"	BASE
52	869+48.34	29' LT	3.5"	BASE
53	884+48.34	2' RT	9.25"	BASE
54	899+48.34	4' LT	12.25"	BASE
55	914+48.34	20' LT	11.75"	BASE
56	929+48.34	29' LT	8"	BASE
57	944+48.34	2' RT	11.75"	BASE
91	948+21.41	20' LT	2"	8.75" PCC, BASE
58	959+48.34	4' LT	7.5"	9.25" PCC, BASE
59	974+48.34	20' LT	7.5"	8.5" PCC, BASE
60	989+48.34	29' LT	10"	BASE
85	997+28.76	99.31' LT	2"	8.375" PCC, BASE
86	997+59.02	160.50' RT	1.875"	8" PCC, BASE
61	1004+48.34	2' RT	12.5"	BASE
62	1019+48.34	4' LT	11.75"	BASE

PAVEMENT CORING LOG

BORING NO.	STATION	OFFSET FROM CL	ASPHALT DEPTH (INCHES)	UNDERLYING MATERIAL
63	1034+48.34	20' LT	12"	BASE
64	1049+48.34	29' LT	6.5"	BASE
65	1064+48.34	2' RT	7.25"	BASE
66	1079+48.34	4' LT	10.75"	BASE
67	1094+48.34	20' LT	12.25"	BASE
68	1109+48.34	29' LT	7.75"	BASE
69	1124+48.34	2' RT	7"	BASE
70	1139+48.34	4' LT	9.5"	BASE
71	1154+48.34	20' LT	11"	BASE
72	1169+48.34	29' LT	6.25"	BASE
73	1184+48.34	2' RT	5.5"	BASE
74	1199+48.34	4' LT	12.5"	BASE
75	1214+48.34	20' LT	11"	BASE
76	1229+48.34	29' LT	6"	BASE
77	1244+48.34	2' RT	7"	BASE
78	1259+48.34	4' LT	13.25"	BASE
79	1274+48.34	20' LT	12.25"	BASE
80	1289+48.34	29' LT	6.5"	BASE
81	1304+48.34	2' RT	8"	BASE
82	1319+48.34	4' LT	12.5"	BASE
83	1334+48.34	20' LT	12.75"	BASE
84	1349+48.34	29' LT	8"	BASE

RUNOFF COEFFICIENT 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:	.08 .22	.16 .30	.22 .38	.12 .26	.20 .34	.27 .44	.15 .30	.24 .37	.33 .50	.19 .34	.28 .41	.38 .56
MEDIAN STRIPTURF:	.19 .24	.20 .26	.24 .30	.19 .25	.22 .28	.26 .33	.20 .26	.23 .30	.30 .37	.20 .27	.25 .32	.30 .40
SIDE SLOPETURF:			.25 .32			.27 .34			.28 .36			.30 .38
PAVEMENT:												
ASPHALT:	.70 - .95											
CONCRETE:	.80 - .95											
BRICK:	.70 - .80											
DRIVES, WALKS:	.75 - .85											
ROOFS:	.75 - .95											
GRAVEL ROADS, SHOULDERS:	.40 - .60											

TOTAL PROJECT AREA = 706.97 ACRES
TOTAL AREA EXPECTED TO BE DISTURBED BY CONSTRUCTION ACTIVITIES = 3.99 ACRES

BEGIN PROJECT 1166-04-85
STA 747'SB'+08.00

END PROJECT 1166-04-85
STA 1359'SB'+03.11

STRUCTURE B-39-0010
(TO REMAIN)

STRUCTURE B-39-0031
(TO REMAIN)
EXCEPTION TO NET CL LENGTH
STA 996'SB'+65.92 - STA 998'SB'+27.92

STRUCTURE B-39-0033
(TO REMAIN)
EXCEPTION TO NET CL LENGTH
STA 1173'SB'+59.02 - STA 1174'SB'+74.02

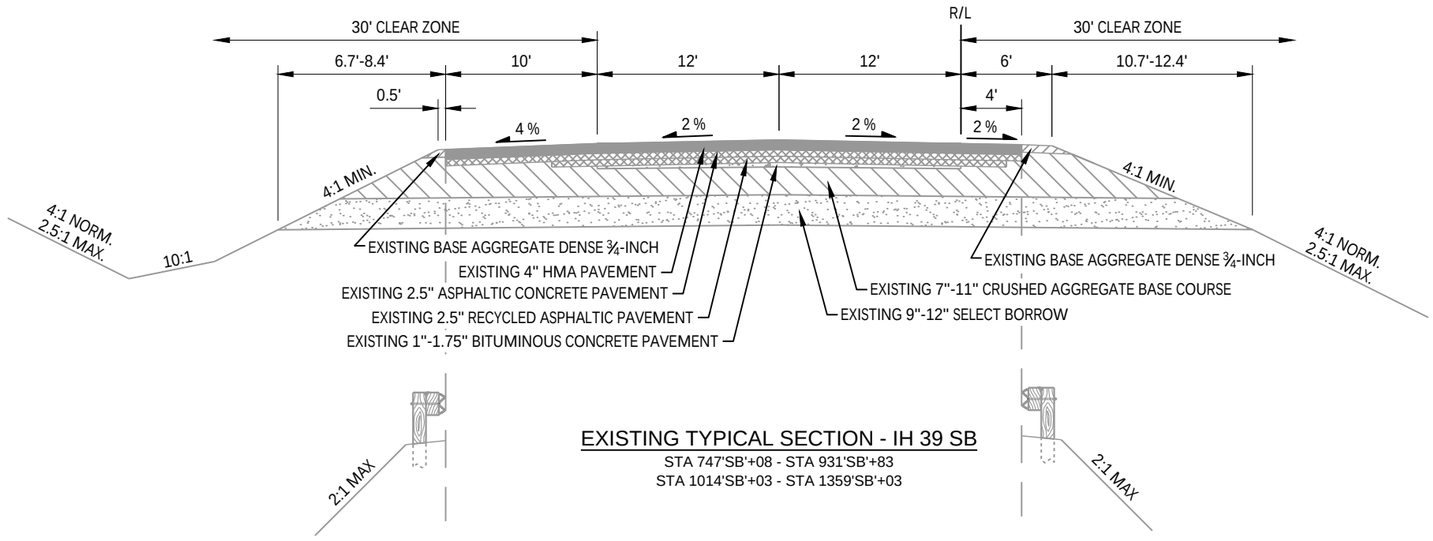
STRUCTURE B-39-0040
(TO REMAIN)
EXCEPTION TO NET CL LENGTH
STA 1262'SB'+25.25 - STA 1262'SB'+40.39

STA BACK = 1359+03.11
STA AHEAD = 99+65.00

LEGEND
SENSITIVE AREA

PROJECT NO: 1166-04-85	HWY: IH 39	COUNTY: MARQUETTE	PROJECT OVERVIEW	SHEET 3 E

FILE NAME : G:\00\00093\00093777\CADD\SHEETSPLAN\020201-PO.DWG
LAYOUT NAME - 01
PLOT DATE : 6/20/2025 7:31 AM
PLOT BY : SHAWN DOLENS
PLOT NAME :
PLOT SCALE : 1 IN:0.5 MI

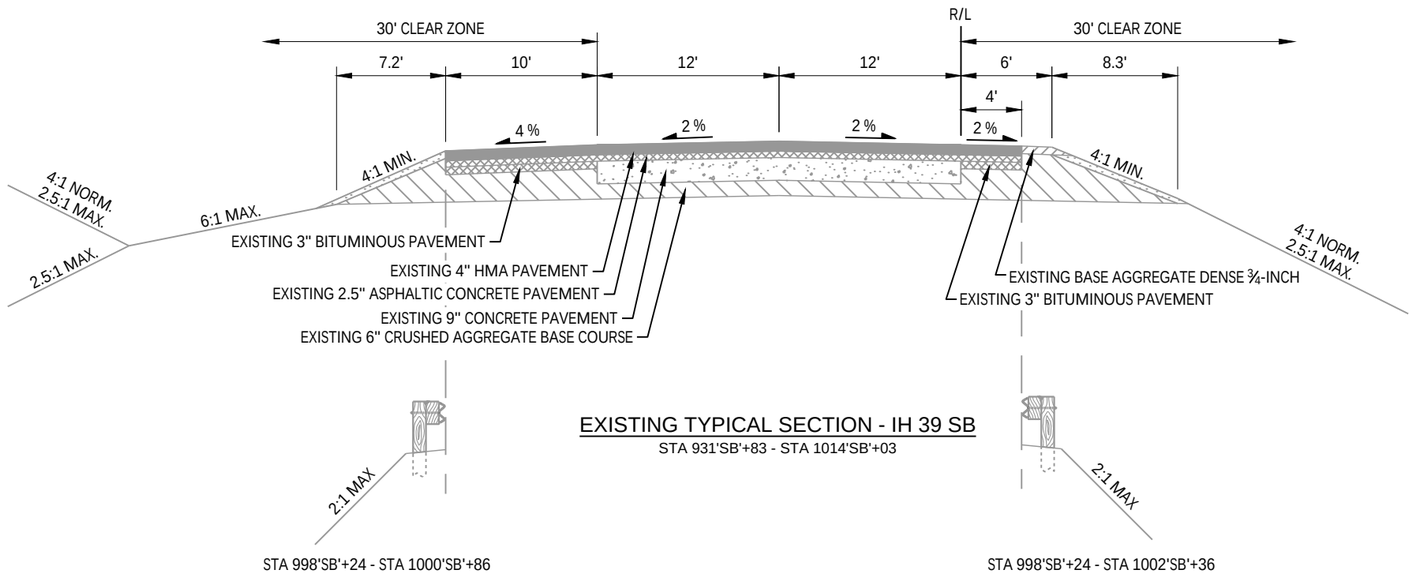


EXISTING TYPICAL SECTION - IH 39 SB

STA 747'SB'+08 - STA 931'SB'+83
STA 1014'SB'+03 - STA 1359'SB'+03

STA 747'SB+08 - STA 760'SB'+38 (1.8:1 MAX)
STA 1014'SB'+52 - STA 1029'SB'+78
STA 1072'SB'+64 - STA 1085'SB'+64
STA 1109'SB'+54 - STA 1115'SB'+31
STA 1174'SB'+70 - STA 1177'SB'+34
STA 1258'SB'+43 - STA 1261'SB'+21
STA 1262'SB'+35 - STA 1264'SB'+90
STA 1356'SB'+60 - STA 1359'SB'+05

STA 747'SB'+08 - STA 751'SB'+00
STA 1072'SB'+64 - STA 1086'SB'+70
STA 1174'SB'+70 - STA 1182'SB'+74
STA 1262'SB'+35 - STA 1266'SB'+42
STA 1356'SB'+93 - STA 1359'SB'+05



EXISTING TYPICAL SECTION - IH 39 SB

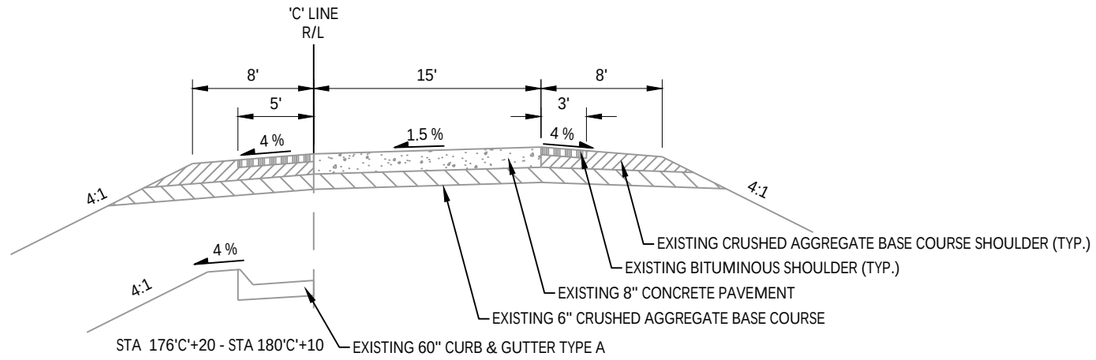
STA 931'SB'+83 - STA 1014'SB'+03

STA 998'SB'+24 - STA 1000'SB'+86

STA 998'SB'+24 - STA 1002'SB'+36

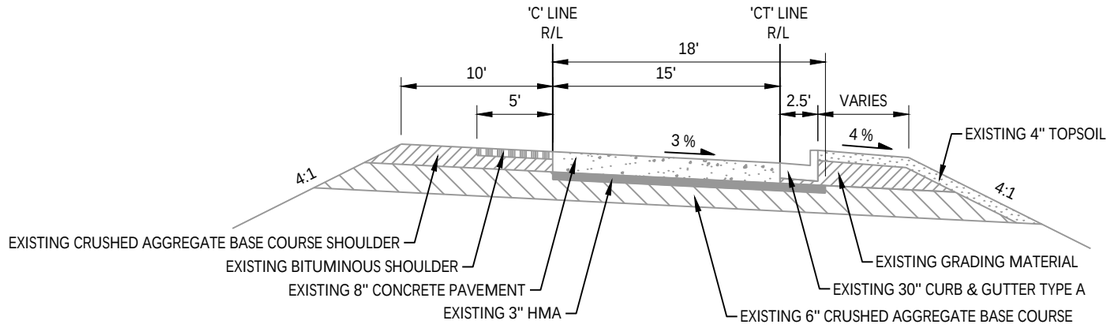
PROJECT NO: 1166-04-85	HWY: IH 39	COUNTY: MARQUETTE	TYPICAL SECTIONS	SHEET 4	E

FILE NAME : G:\00\00093\00093777\CADD\SHEETSPLAN\020301-TS.DWG
LAYOUT NAME - 020301
PLOT DATE : 5/21/2026 1:33 PM
PLOT BY : SHAWN DOLENS
PLOT NAME :
PLOT SCALE : 1 IN:10 FT



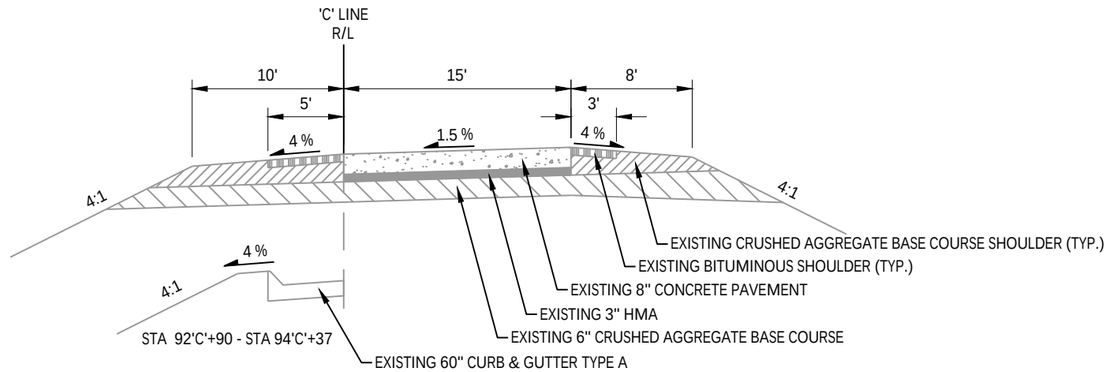
EXISTING TYPICAL - RAMP SECTION

STA 62'C'+00 - STA 75'C'+79
STA 176'C+20 - STA 190'C'+53



EXISTING TYPICAL - RAMP SECTION

STA 82'C'+10 - STA 90'C'+50
STA 83'CT'+95 - STA 86'CT'+70

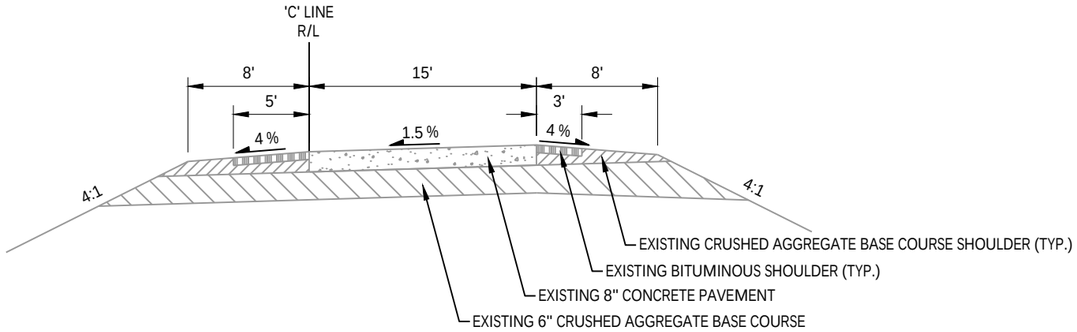


EXISTING TYPICAL - RAMP SECTION

STA 90'C'+50 - STA 94'C'+37

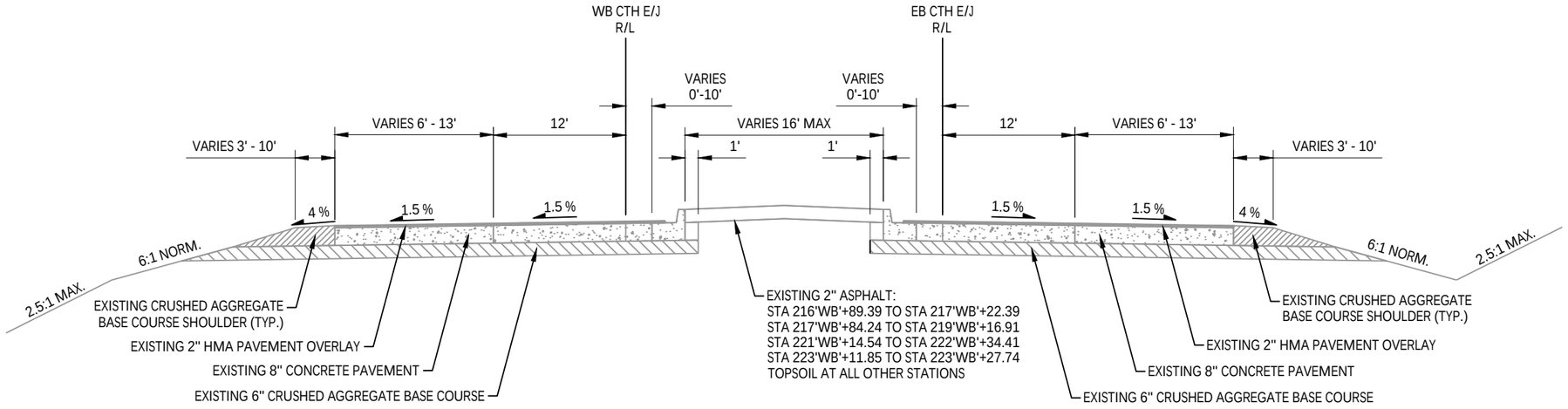
PROJECT NO: 1166-04-85	HWY: IH 39	COUNTY: MARQUETTE	TYPICAL SECTIONS	SHEET 5	E

2



EXISTING TYPICAL - RAMP SECTION

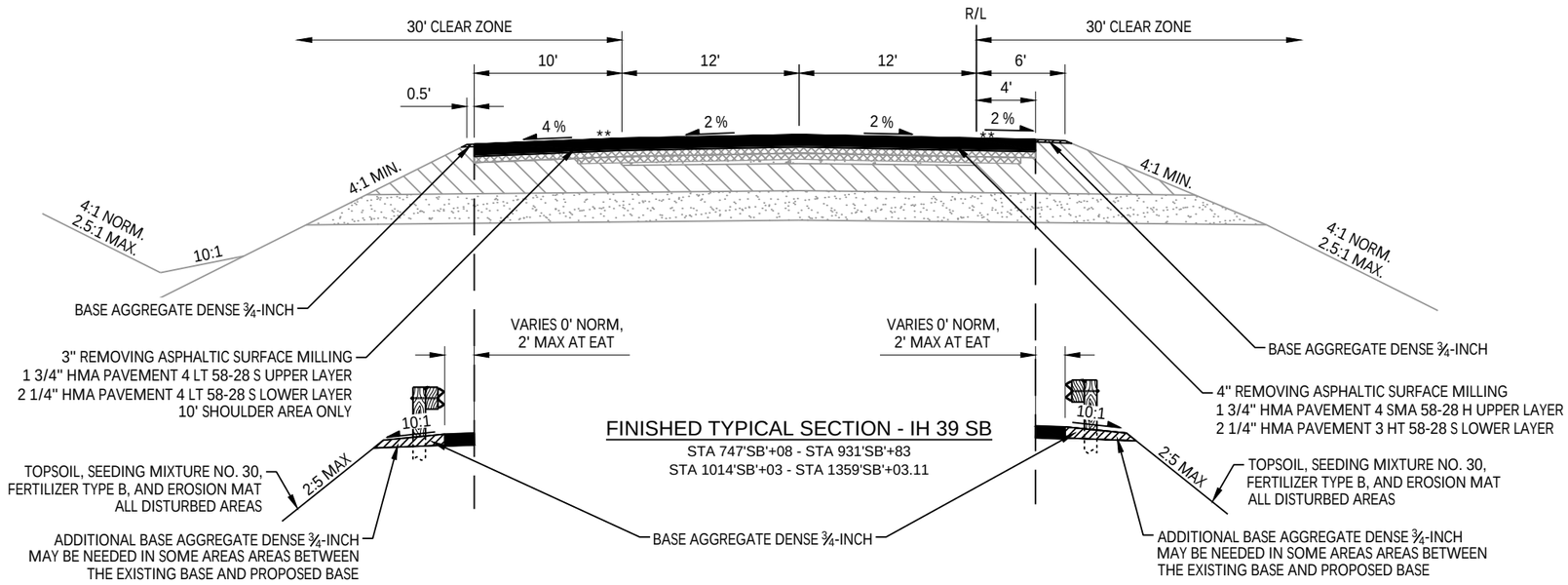
STA 429'LC'+00 - STA 430'LC'+75
STA 431'LD'+00 - STA 433'LD'+23



EXISTING TYPICAL SECTION - CTH E/J

STA 116'EB'+67 - STA 123'EB'+71
STA 216'WB'+55 - STA 223'WB'+49

2



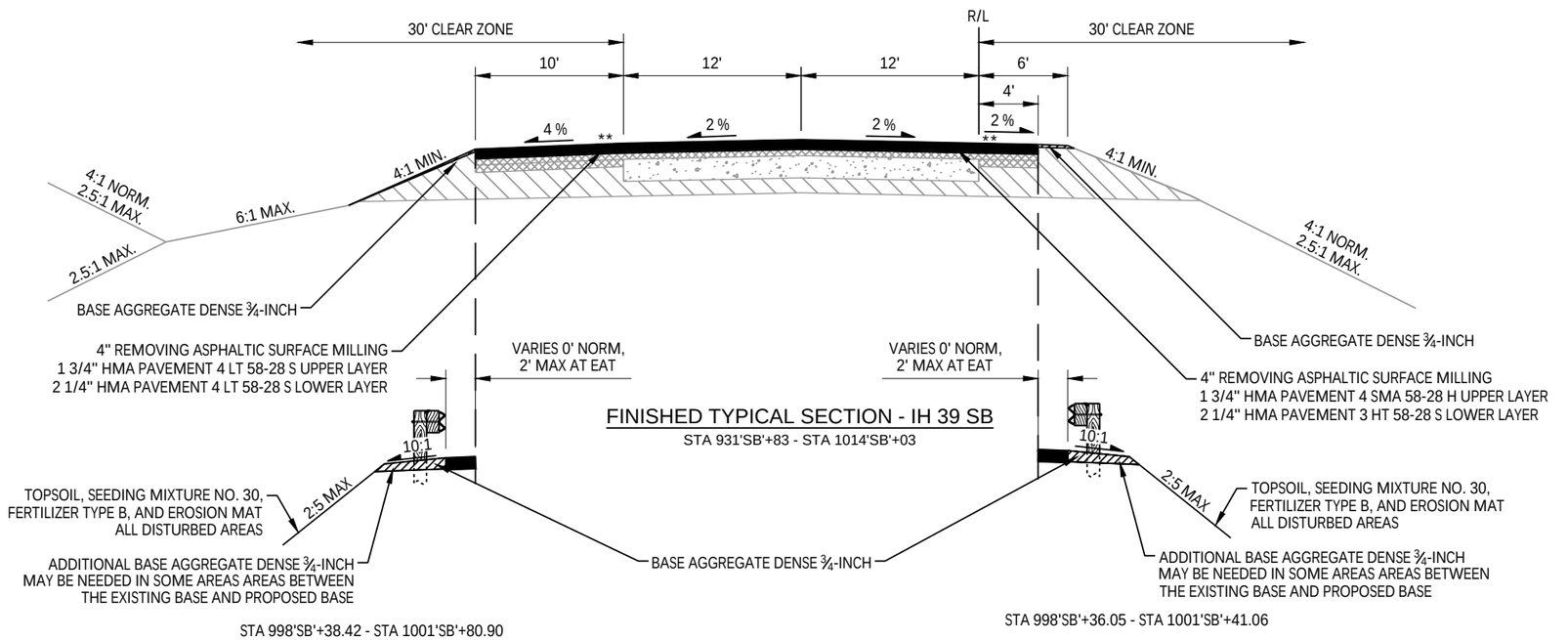
FINISHED TYPICAL SECTION - IH 39 SB

STA 747'SB'+08 - STA 931'SB'+83
STA 1014'SB'+03 - STA 1359'SB'+03.11

STA 747'SB'+15.97 - STA 762'SB'+08.5 (1.8:1 MAX)
STA 1014'SB'+54.5 - STA 1031'SB'+32.5
STA 1072'SB'+62 - STA 1085'SB'+02.6
STA 1109'SB'+55.12 - STA 1115'SB'+33.2
STA 1174'SB'+79.69 - STA 1176'SB'+03.68
STA 1257'SB'+94.72 - STA 1261'SB'+11.84
STA 1262'SB'+40.46 - STA 1265'SB'+73.32

STA 747'SB'+15.92 - STA 751'SB'+33.4
STA 1072'SB'+25 - STA 1085'SB'+90.6
STA 1174'SB'+81.5 - STA 1182'SB'+99
STA 1262'SB'+47.88 - STA 1266'SB'+39.65

** ASPHALTIC RUMBLE STRIPS, SHOULDER DIVIDED ROADWAY



FINISHED TYPICAL SECTION - IH 39 SB

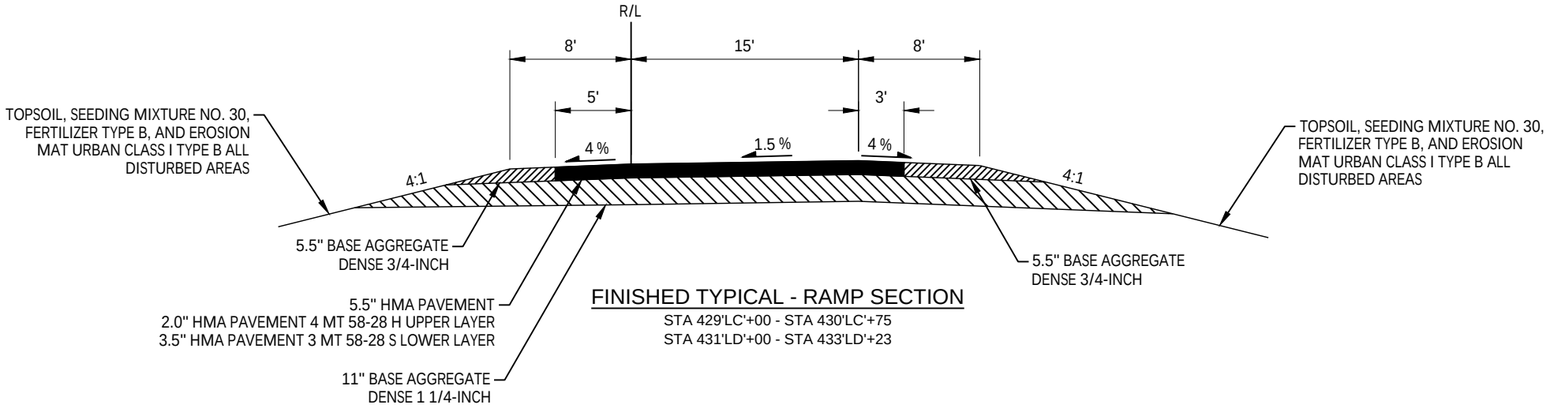
STA 931'SB'+83 - STA 1014'SB'+03

STA 998'SB'+38.42 - STA 1001'SB'+80.90

STA 998'SB'+36.05 - STA 1001'SB'+41.06

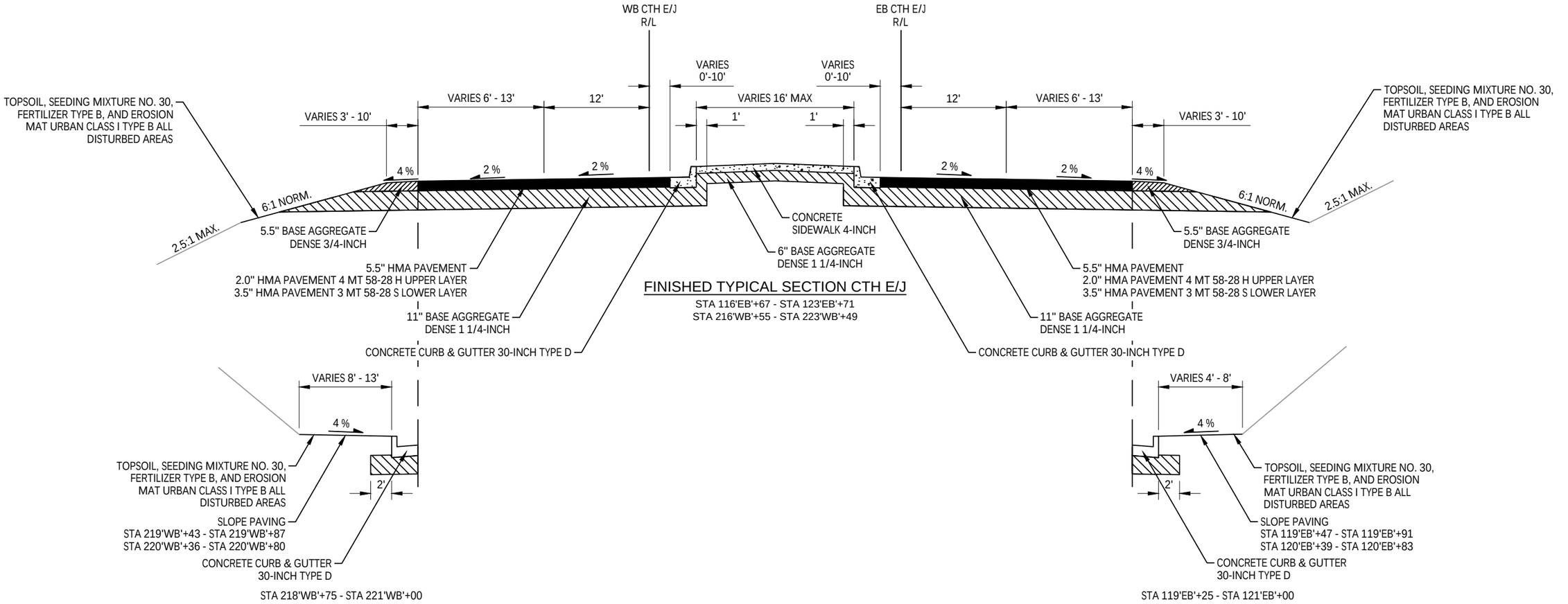
PROJECT NO: 1166-04-85	HWY: IH 39	COUNTY: MARQUETTE	TYPICAL SECTIONS	SHEET 7	E

2



FINISHED TYPICAL - RAMP SECTION

STA 429'LC'+00 - STA 430'LC'+75
STA 431'LD'+00 - STA 433'LD'+23



FINISHED TYPICAL SECTION CTH E/J

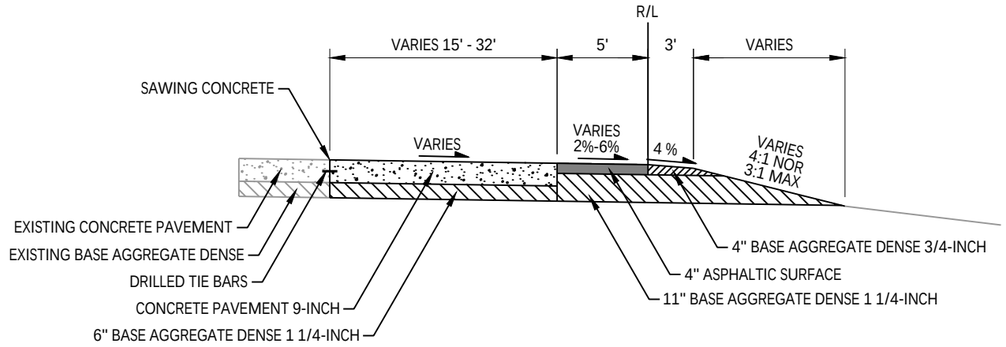
STA 116'EB'+67 - STA 123'EB'+71
STA 216'WB'+55 - STA 223'WB'+49

STA 218'WB'+75 - STA 221'WB'+00

STA 119'EB'+25 - STA 121'EB'+00

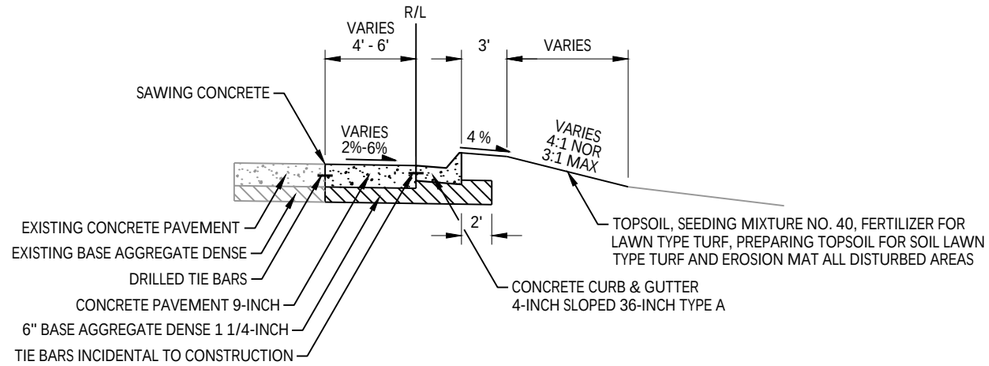
PROJECT NO: 1166-04-85	HWY: IH 39	COUNTY: MARQUETTE	TYPICAL SECTIONS	SHEET 8	E

2



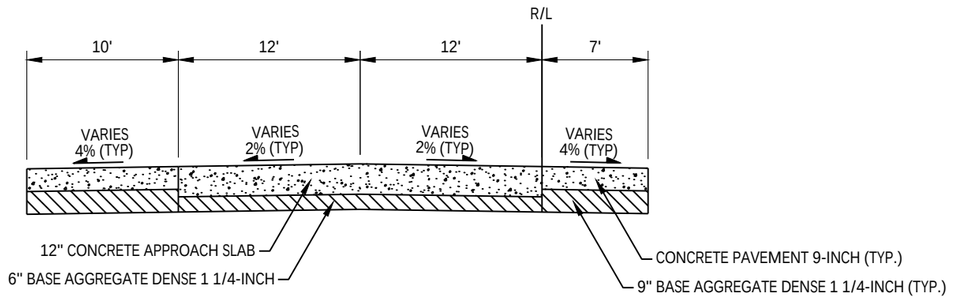
FINISHED TYPICAL - NB REST AREA 82

STA 1'F'+73 - STA 2'F'+31



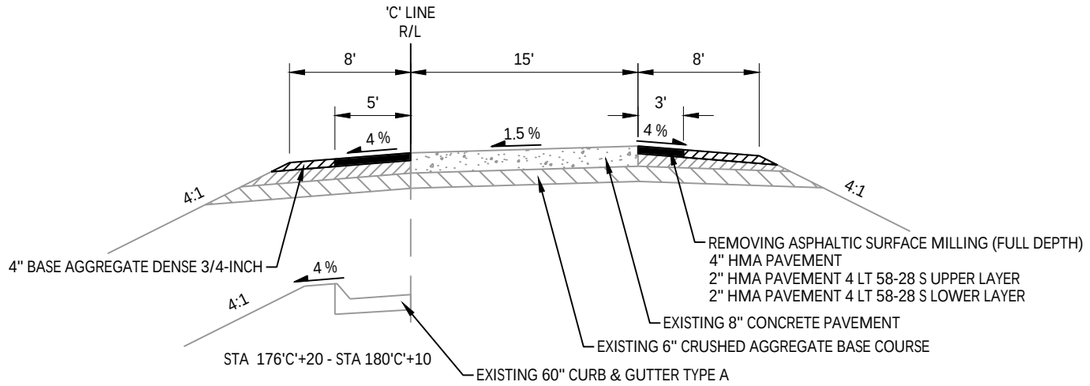
FINISHED TYPICAL - NB REST AREA

STA 3'F'+51 - STA 6'F'+78



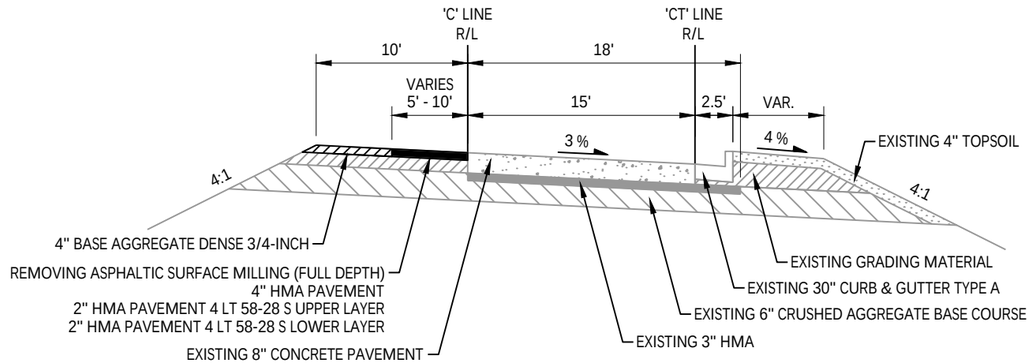
FINISHED TYPICAL - APPROACH SLAB REPLACEMENT

B-39-0010 (NORTH APPROACH SLAB)
B-39-0031 (NORTH & SOUTH APROACH SLAB)
B-39-0033 (NORTH & SOUTH APPROACH SLAB)
B-39-0040 (NORTH & SOUTH APPROACH SLAB)



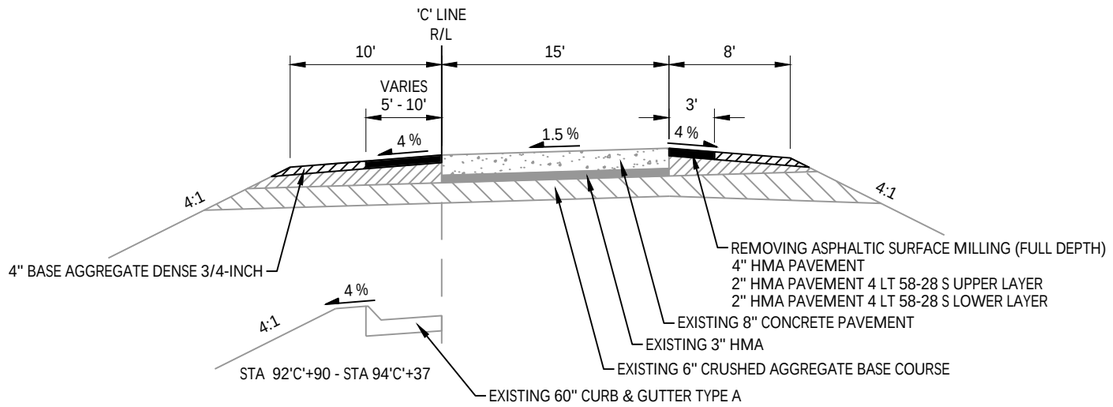
FINISHED TYPICAL - RAMP SECTION

STA 62'C'+00 - STA 75'C'+79
STA 176'C+20 - STA 190'C'+53



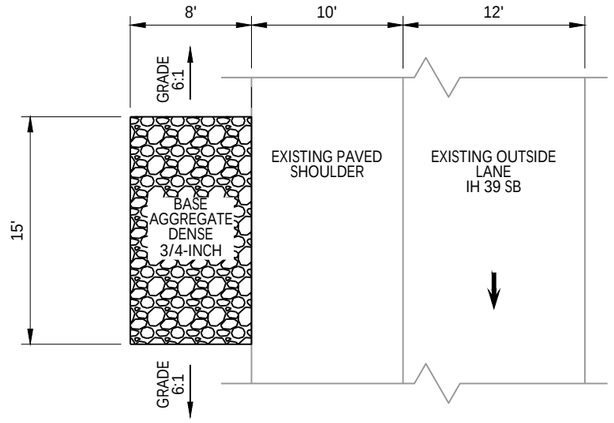
FINISHED TYPICAL - RAMP SECTION

STA 82'C'+10 - STA 90'C'+50
STA 83'CT'+95 - STA 86'CT'+70

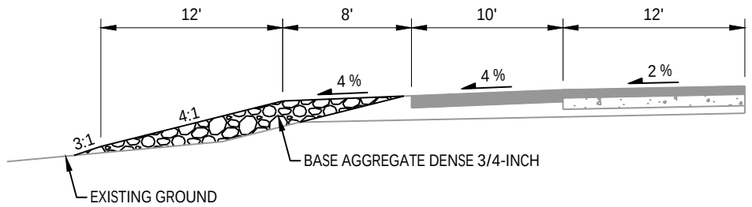


FINISHED TYPICAL - RAMP SECTION

STA 90'C'+50 - STA 94'C'+37

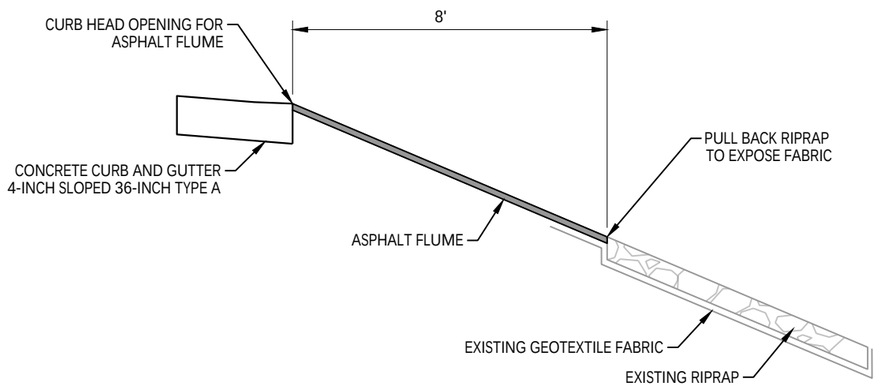


PLAN VIEW



PROFILE VIEW

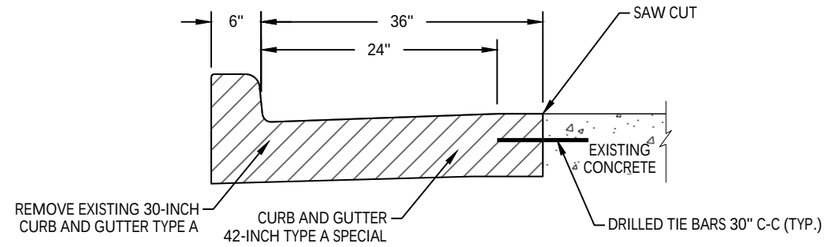
DIGITAL SPEED LIMIT TRAILER PAD DETAIL



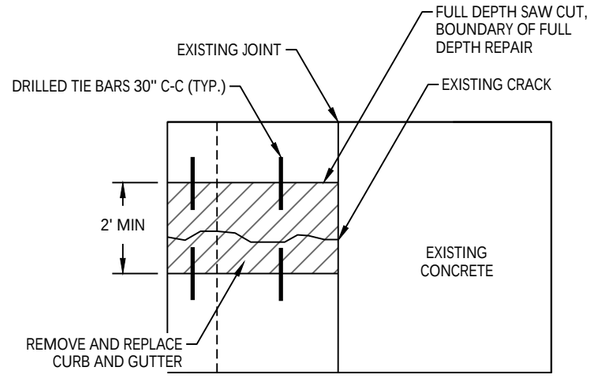
NB REST AREA ASPHALT FLUME DETAILS
STA 5'F'+13 RT

GENERAL NOTES

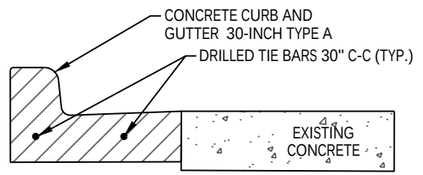
SAW CUT, DRILL, AND LIFT OUT EXISTING CURB AND GUTTER AND CONCRETE PAVEMENT WITHIN THE BOUNDARIES OF CONCRETE REPAIR AREAS. THE CONTRACTOR MAY MAKE ADDITIONAL SAW CUTS INSIDE THE REPAIR LIMITS TO REDUCE WEIGHT AND SIZE OF CONCRETE PIECES.



CURB AND GUTTER 42-INCH TYPE A SPECIAL

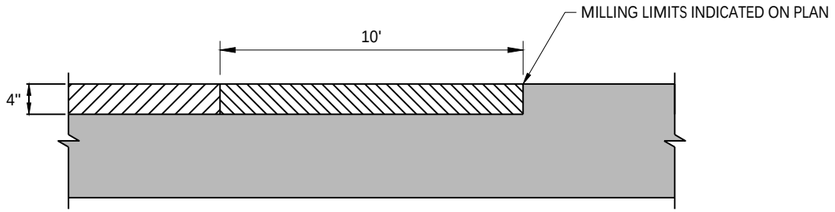


PLAN VIEW



PROFILE VIEW

CONCRETE CURB AND GUTTER REPAIR



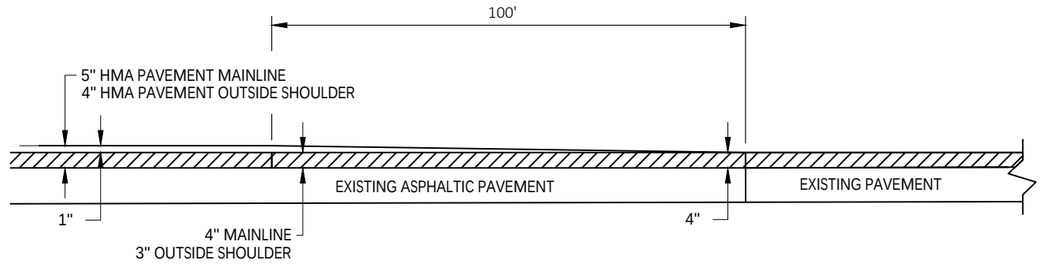
EXISTING PAVEMENT TO REMAIN

REMOVING ASPHALTIC SURFACE BUTT JOINT

REMOVING ASPHALTIC SURFACE MILLING

MAINLINE BUTT JOINT DETAIL

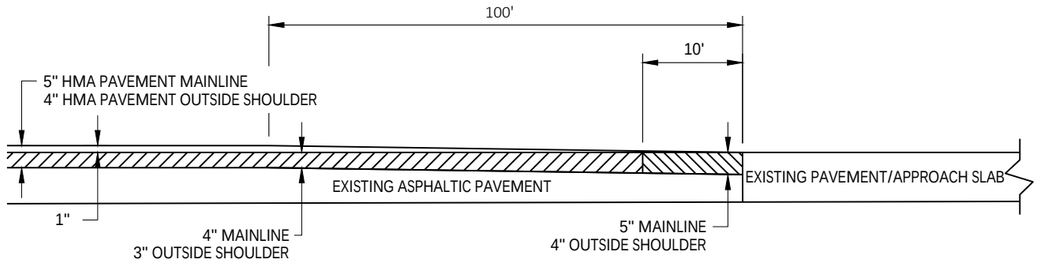
NOT TO SCALE
STA 996'SB'+23 - STA 996'SB'+33
STA 998'SB'+63 - STA 998'SB'+73



REMOVING ASPHALTIC SURFACE MILLING

PROFILE TRANSITION DETAIL

STA 930'SB'+83 - STA 931'SB'+83
STA 1014'SB'+03 - STA 1015'SB'+03 (REVERSED)

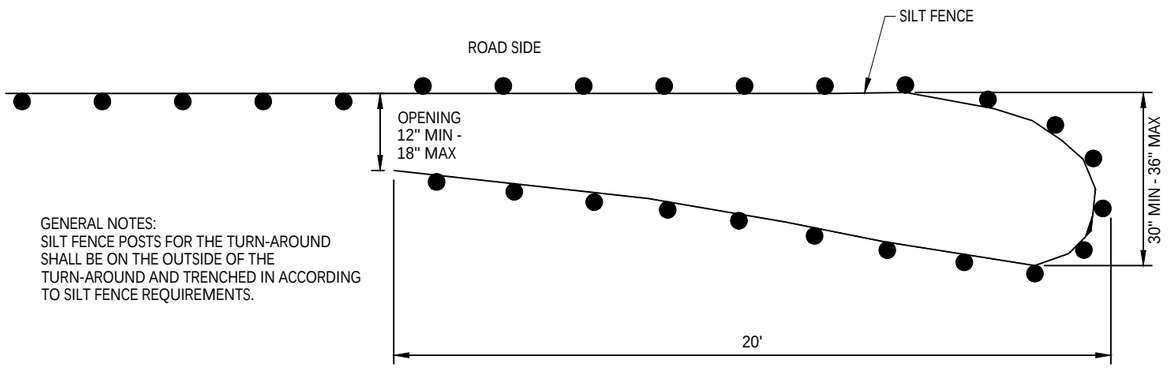


REMOVING ASPHALTIC SURFACE BUTT JOINT

REMOVING ASPHALTIC SURFACE MILLING

MAINLINE BUTT JOINT DETAIL

STA 747'SB+24 - STA 748'SB'+24
STA 1172'SB'+42 - STA 1173'SB'+42
STA 1174'SB'+99 - STA 1175'SB'+99
STA 1260'SB'+05 - STA 1261'SB'+05
STA 1262'SB'+55 - STA 1263'SB'+55
STA 1358'SB'+03 - STA 1359'SB'+03



GENERAL NOTES:
SILT FENCE POSTS FOR THE TURN-AROUND SHALL BE ON THE OUTSIDE OF THE TURN-AROUND AND TRENCHED IN ACCORDING TO SILT FENCE REQUIREMENTS.

PLAN VIEW

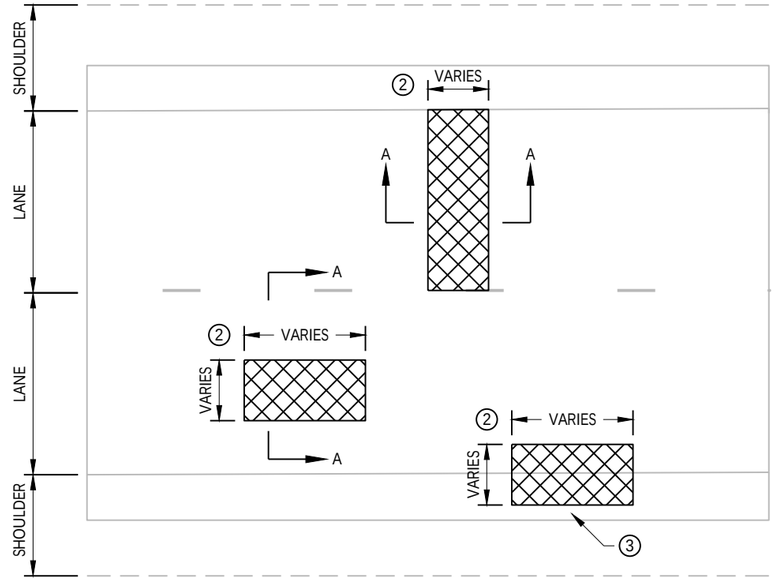
SILT FENCE TURN-AROUND

PROJECT NO: 1166-04-85	HWY: IH 39	COUNTY: MARQUETTE	CONSTRUCTION DETAILS	SHEET 12	E

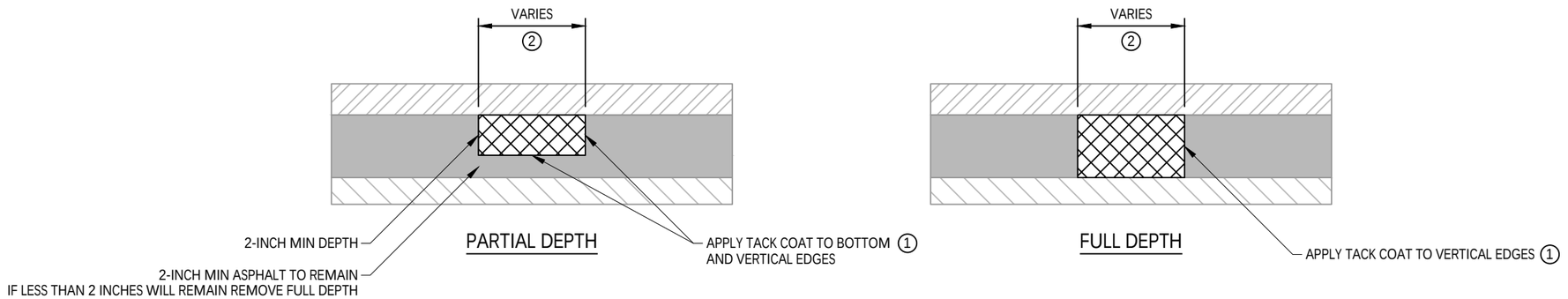
NOTES:

PERFORM REMOVING ASPHALTIC SURFACE MILLING PRIOR TO REMOVING DISTRESSED ASPHALTIC SURFACE MILLING

1. MILLED VERTICAL EDGES ARE ACCEPTABLE, SAW CUTS ARE NOT REQUIRED.
2. THE SMALLEST DIMENSION OF REMOVING DISTRESSED ASPHALTIC SURFACE MILLING IS 4 FEET IN ANY DIRECTION.
3. WHEN THE DISTANCE FROM THE EDGE OF PAVEMENT TO EDGE OF REMOVING DISTRESSED ASPHALTIC SURFACE MILLING IS LESS THAN 1-FOOT, EXTEND THE REMOVING DISTRESSED ASPHALTIC SURFACE MILLING TO THE EDGE OF PAVEMENT.



PLAN VIEW



SECTION A-A

REMOVING ASPHALTIC SURFACE MILLING

REMOVING DISTRESSED ASPHALTIC SURFACE MILLING
ASPHALTIC SURFACE PATCHING

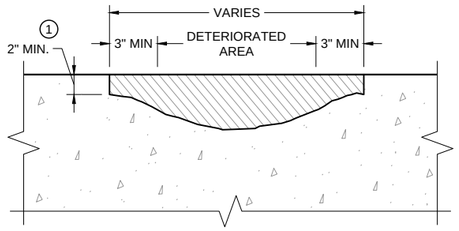
EXISTING ASPHALT

EXISTING BASE COURSE

REMOVING DISTRESSED ASPHALTIC SURFACE MILLING

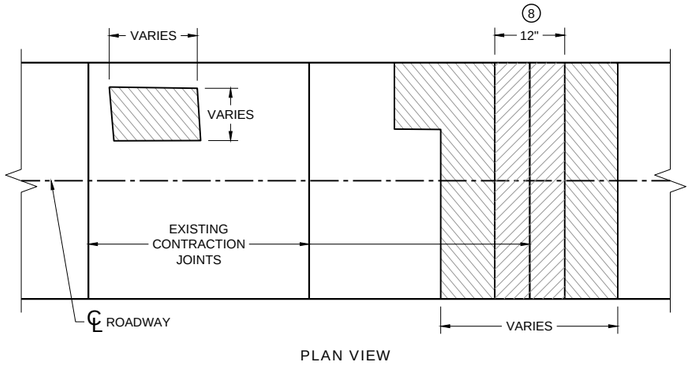
LOCATIONS AND LIMITS DETERMINED BY THE ENGINEER IN THE FIELD

PROJECT NO: 1166-04-85	HWY: IH 39	COUNTY: MARQUETTE	CONSTRUCTION DETAILS	SHEET 13	E



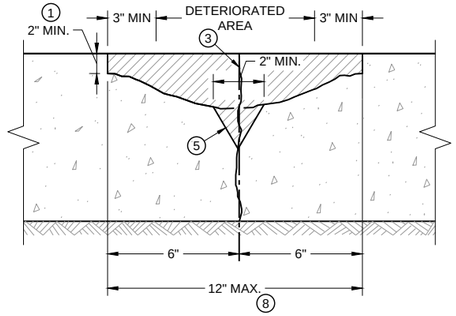
PROFILE VIEW

SURFACE REPAIR

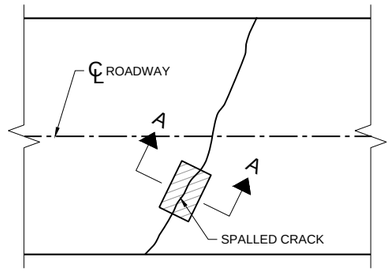


PLAN VIEW

SURFACE AND JOINT REPAIR



SECTION A - A

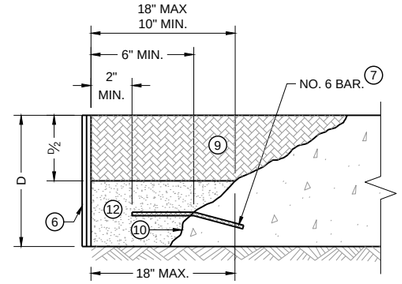


PLAN VIEW

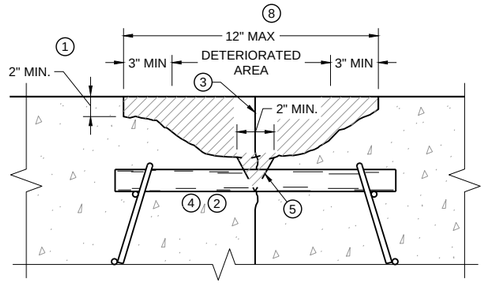
CRACK REPAIR

GENERAL NOTES

1. REMOVE ALL CONCRETE, TO LIMITS SHOWN, TO A MAXIMUM OF 1/2 THE PAVEMENT DEPTH OR TOP OF DOWELS. THE LIMIT OF CONCRETE REMOVAL SHALL EXTEND 3" INTO SOUND CONCRETE.
2. TAKE PRECAUTION NOT TO DISTURB UNSOUND CONCRETE BELOW THE TOP OF THE DOWEL.
3. COMPRESSION RELIEF MATERIAL MUST BE USED. THE THICKNESS OF COMPRESSION RELIEF MATERIAL MUST BE EQUAL TO OR GREATER THAN THE WIDTH OF THE JOINT OF CRACK (1/4"). THE MATERIAL SHOULD EXTEND THE FULL DEPTH OF THE REPAIR.
4. IF UNSOUND MATERIALS IS ACCIDENTALLY REMOVED BELOW DOWEL MID-DEPTH, THEN CONVERT IT TO FULL DEPTH REPAIR.
5. REMOVE UNSOUND MATERIAL BY CHIPPING AT 45 - 60 FROM HORIZONTAL.
6. 1/4" MINIMUM PREFORMED JOINT FILLER IF ADJACENT TO CONCRETE. EDGING REQUIRED. FULL FORMED EDGE IF ADJACENT TO SHOULDER.
7. PAVEMENT TIES AS SHOWN. ALL EMBEDMENTS 6" MINIMUM AND INSTALLED WITH GROUT.
8. OVER 12" (NOMINAL WIDTH) WILL BE PAID AS SURFACE REPAIR.
9. PAID AS EDGE, JOINT OR CRACK REPAIR
10. FULL-DEPTH ADJUSTMENT SHALL BE CHIPPED TO BOTTOM OF PCC PAVEMENT AT 45 - 60 FROM HORIZONTAL.
11. BEYOND 18" WILL BE PAID AS SURFACE REPAIR.
12. PAID AS CONCRETE PLACEMENT PARTIAL DEPTH REPAIR FULL DEPTH ADJUSTMENT.



PROFILE VIEW



PROFILE VIEW

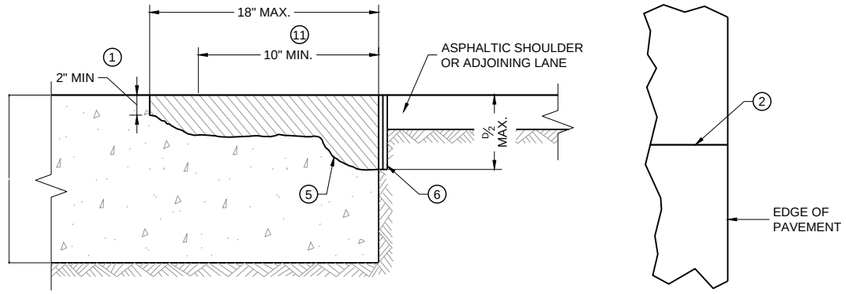
JOINT REPAIR

AREA TO BE REMOVED AND PATCHED AS JOINT AND CRACK REPAIR

AREA TO BE REMOVED AND PATCHED AS SURFACE AND EDGE REPAIR

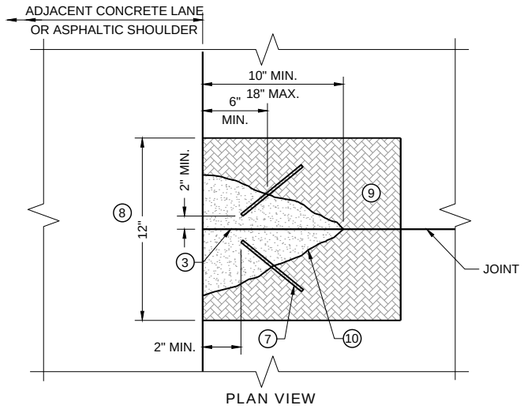
FULL DEPTH ADJUSTMENT

EDGE, JOINT OR CRACK REPAIR



PROFILE VIEW PLAN VIEW

EDGE REPAIR

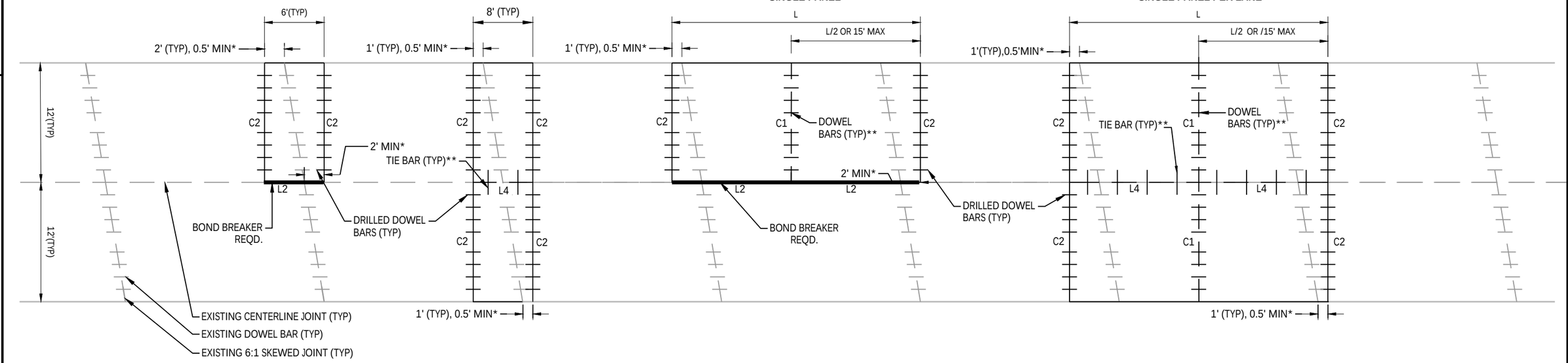


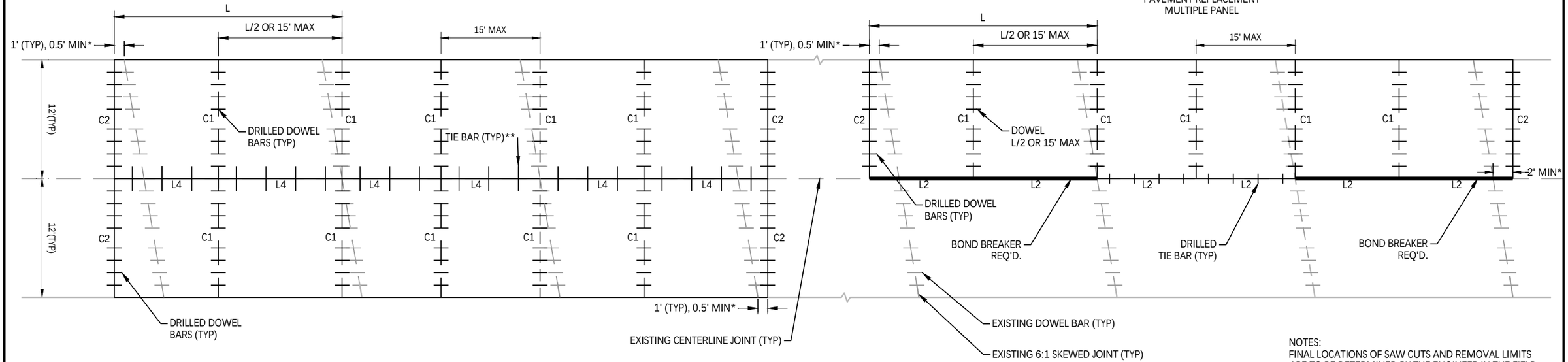
PLAN VIEW

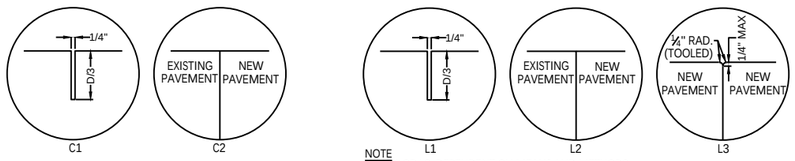
FULL DEPTH REPAIR ADJUSTMENT

CONCRETE PAVEMENT PARTIAL DEPTH REPAIR

PROJECT NO: 1166-04-85	HWY: IH 39	COUNTY: MARQUETTE	CONSTRUCTION DETAILS	SHEET 14	E







CONCRETE PAVEMENT REPAIR/REPLACEMENT DETAILS FOR SKEWED JOINTS

NOTES:
FINAL LOCATIONS OF SAW CUTS AND REMOVAL LIMITS ARE TO BE DETERMINED BY THE ENGINEER IN THE FIELD.

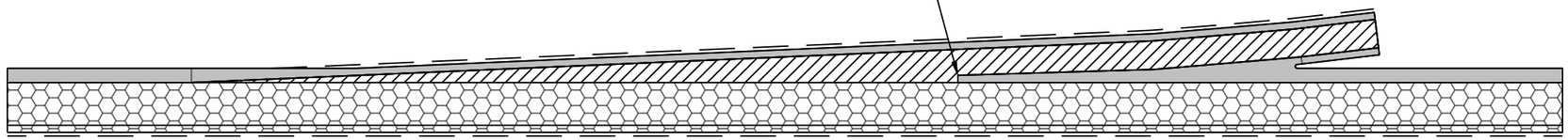
REFER TO SDD CONCRETE PAVEMENT REPAIR AND REPLACEMENT FOR ADDITIONAL DETAILS.

*ENSURE FULL REMOVAL OF EXISTING DOWEL BAR AT CONCRETE REPAIR/ REPLACEMENT LOCATIONS.

**INCIDENTAL WHEN NOT ABUTTING EXISTING PAVEMENT.

PROJECT NO: 1166-04-85	HWY: IH 39	COUNTY: MARQUETTE	CONSTRUCTION DETAILS	SHEET 15	E

2

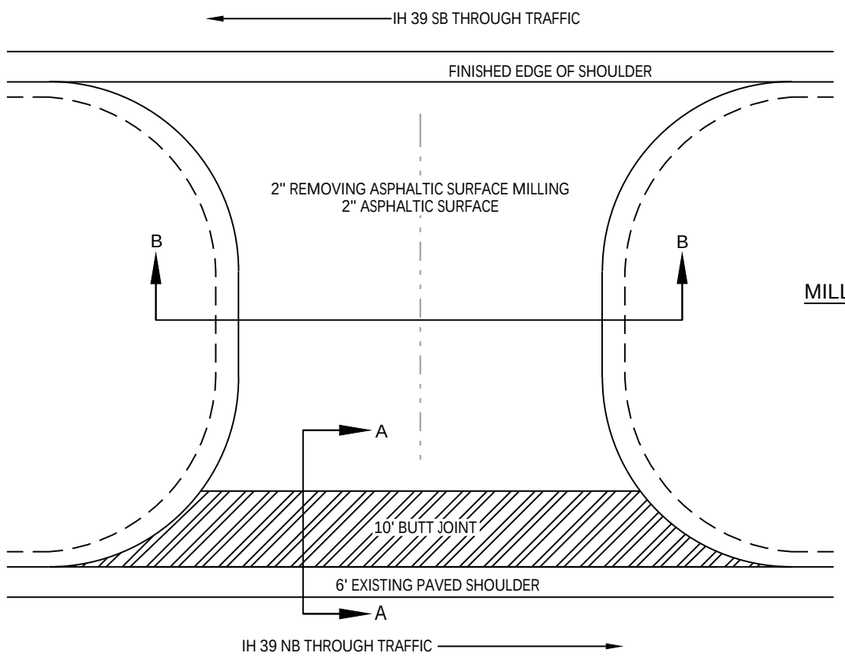


HMA PAVEMENT LEGEND

- 4 SMA 58-28 H OVER 4 HT 58-28 S
- 4 LT 58-28 S
- 4 MT 58-28 H

NOTE: THIS DETAIL IS TO BE USED FOR GENERAL LOCATIONS OF HMA PAVEMENT MATERIAL USED IN THE RAMP GORES. SEE TYPICAL SECTIONS FOR ADDITIONAL INFORMATION ON PAVEMENT LIFT THICKNESSES.

RAMP GORE PAVING DETAIL
CTH E/J
REST AREA 81

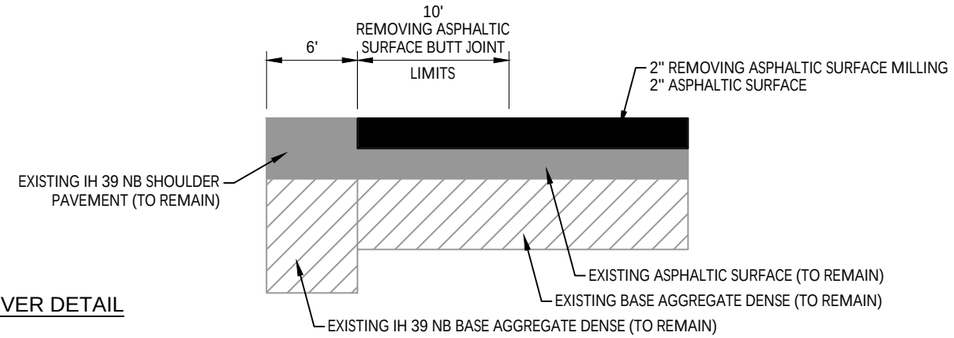


PLAN VIEW

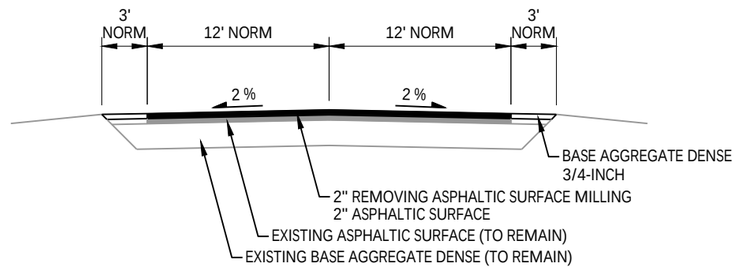
MILL & OVERLAY AT MAINTENANCE CROSSOVER DETAIL

STA 844'SB'+69
STA 909'SB'+14
STA 965'SB'+61
STA 1023'SB'+97
STA 1146'SB'+57
STA 1193'SB'+33
STA 1269'SB'+59

NOTE:
SEE STANDARD DETAIL DRAWINGS "TRAFFIC CONTROL, LANE CLOSURE, TRAFFIC QUEUE WARNING SYSTEM" AND "TRAFFIC CONTROL, LANE CLOSURE, DIGITAL SPEED REDUCTION SYSTEM" FOR TRAFFIC CONTROL WHILE MILLING BUTT JOINT AND PAVING.

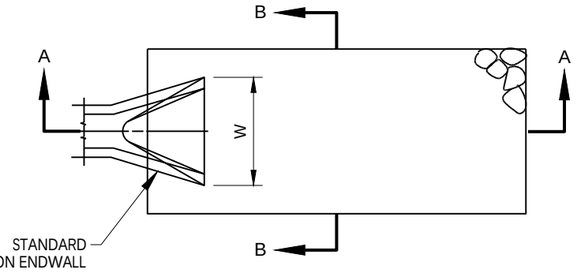


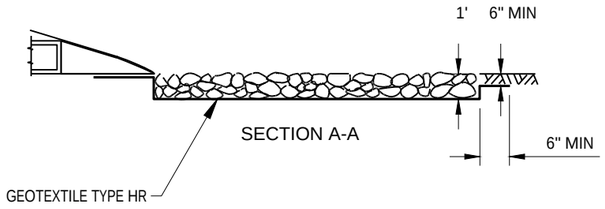
SECTION A-A

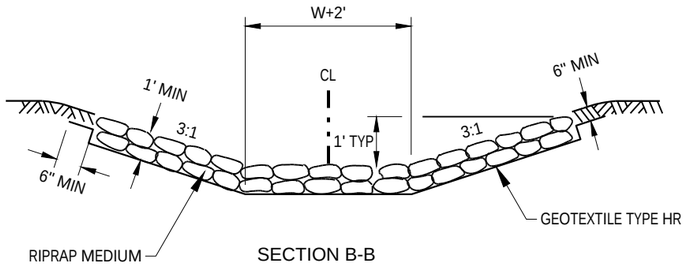


SECTION B-B

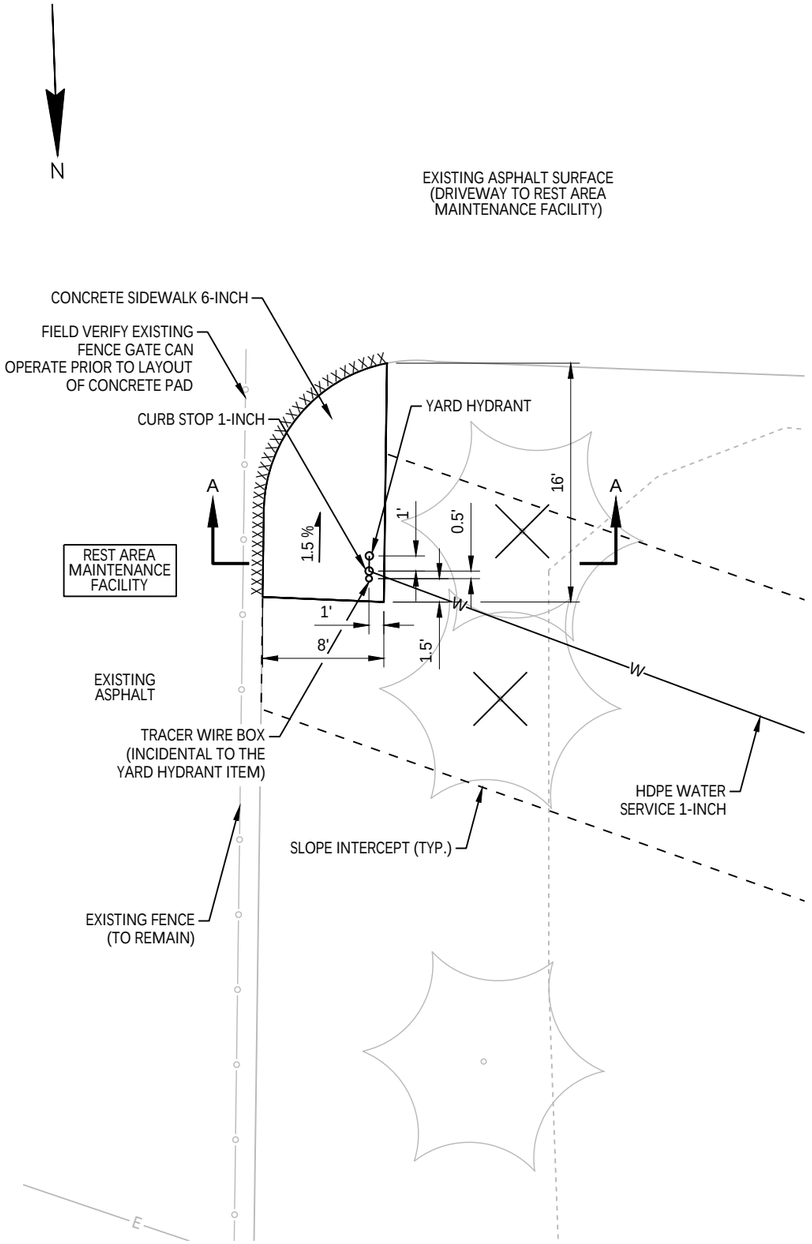
PROJECT NO: 1166-04-85	HWY: IH 39	COUNTY: MARQUETTE	CONSTRUCTION DETAILS	SHEET 16	E



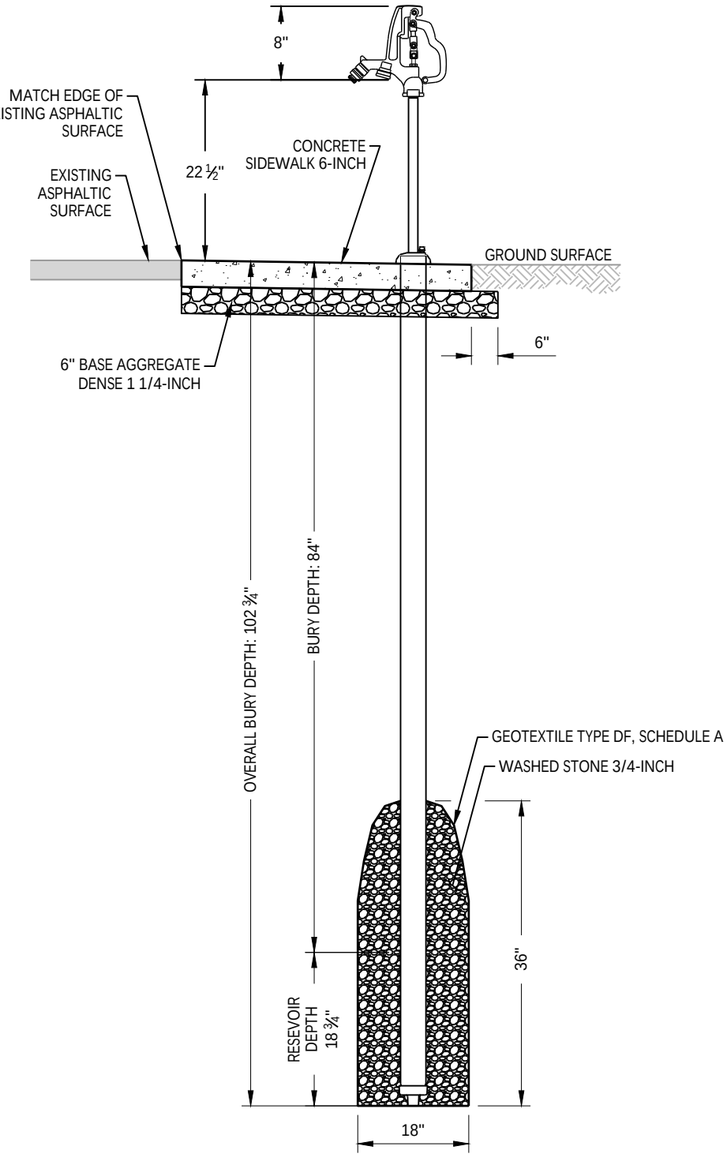




RIP RAP AND GEOTEXTILE



PLAN VIEW



ELEVATION VIEW

YARD HYDRANT DETAIL

BENCH MARKS & CONTROL POINTS			
NO.	STATION	ELEV.	DESCRIPTION
925	745'SB'+18.64	886.17	CP / IR 3/4" WITH RED CAP, 15.41' RT
505	747'SB'+14.67	888.64	BM / BRIDGE X ON WALL, 35.48' LT

RIPRAP MEDIUM
GEOTEXTILE TYPE HR

INLETS 2X2.5-FT
INLET COVERS TYPE V
STORM SEWER PIPE CLASS III-A 12-INCH
APRON ENDWALLS FOR CULVERT PIPE STEEL 12-INCH

STRUCTURE B-39-0010
(TO REMAIN)
EXCEPTION TO NET CL LENGTH
STA 746'SB'+07.21 - STA 747'SB'+08.91

FAWN CT

BM 505

REMOVING SURFACE DRAINS

REMOVING CURB AND GUTTER
CONCRETE CURB & GUTTER 4-INCH 36-INCH TYPE TBT

6TH DR

ELECTRICITY
(ADAMS-COLUMBIA ELECTRIC)

RIPRAP HEAVY
GEOTEXTILE TYPE HR

N

SLOPE INTERCEPT

IH 39 SB

COMMUNICATIONS
(MARQUETTE ADAMS TELEPHONE COOP INC)

745'SB' 746'SB' 747'SB' 748'SB' 749'SB' 750'SB'

CP 925

BEGIN PROJECT 1166-04-85
STA 747'SB'+08'

REMOVING FENCE
FENCE WOVEN WIRE (HEIGHT) 01 4-FT

RIPRAP MEDIUM
GEOTEXTILE TYPE HR

CONCRETE CURB & GUTTER 4-INCH 36-INCH TYPE TBT

REMOVING CONCRETE PAVEMENT
CONCRETE PAVEMENT 9-INCH

REMOVING CONCRETE PAVEMENT
CONCRETE PAVEMENT 9-INCH

REMOVING CONCRETE PAVEMENT (EXISTING APPROACH SLAB)
CONCRETE APPROACH SLAB

INLETS 2X2.5-FT
INLET COVERS TYPE V
STORM SEWER PIPE CLASS III-A 12-INCH
APRON ENDWALLS FOR CULVERT PIPE STEEL 12-INCH

IH 39 NB

SLOPE INTERCEPT

REMOVING GUARDRAIL
MGS THRIE BEAM TRANSITION
MGS GUARDRAIL 3
MGS GUARDRAIL TERMINAL EAT

749'SB'+83.40, 9.12' RT
POST 9

750'SB'+08.40, 10.06' RT
POST 5

750'SB'+33.40, 11' RT
POST 1

MATCH LINE STA 750'SB'+50

LEGEND

- EROSION MAT URBAN CLASS 1 TYPE B
- EROSION MAT CLASS II TYPE C
- CULVERT PIPE CHECK
- SURFACE WATER FLOW
- SILT FENCE
- ROCK BAGS
- INLET PROTECTION
- SENSITIVE AREA
- MITIGATED WETLAND IMPACT AREA

BENCH MARKS & CONTROL POINTS			
NO.	STATION	ELEV.	DESCRIPTION
924	753'SB'+37.24	884.89	CP / IR 3/4" WITH RED CAP, 43.25' LT

6TH DR

N

REMOVING GUARDRAIL
MGS THRIE BEAM TRANSITION
MGS GUARDRAIL 3
MGS GUARDRAIL TERMINAL EAT

SLOPE INTERCEPT

CP 924

IH 39 SB

MATCH LINE STA 750'SB'+50

MATCH LINE STA 756'SB'+50

751'SB' 752'SB' 753'SB' 754'SB' 755'SB' 756'SB'

751'SB'+97.50, 6' RT

751'SB'+03.40, 4' RT

SLOPE INTERCEPT

IH 39 NB

PROJECT NO: 1166-04-85	HWY: IH 39	COUNTY: MARQUETTE	CONSTRUCTION AND EROSION CONTROL DETAILS	SHEET 18	E

FILE NAME : G:\00\00093\00093777\CADD\SHEETSPLAN\021002-CD.DWG
LAYOUT NAME - 021007-cd

PLOT DATE : 5/21/2026 2:34 PM PLOT BY : SHAWN DOLENS PLOT NAME : PLOT SCALE : 1 IN:40 FT

WISDOT/CADDS SHEET 44

2

BENCH MARKS & CONTROL POINTS			
NO.	STATION	ELEV.	DESCRIPTION
923	761'SB'+31.91	886.04	CP / IR 3/4" WITH RED CAP, 80.92' LT

MATCH LINE STA 756'SB'+50

CP 923

POST 1
762'SB'+08.50, 36.5' LT

POST 5
761'SB'+83.50, 35.56' LT

POST 9
761'SB'+58.50, 34.62' LT

SLOPE INTERCEPT

762'SB'+33.50, 34' LT

IH 39 SB

757'SB' 758'SB' 759'SB' 760'SB' 761'SB' 762'SB'

IH 39 NB

LEGEND

- EROSION MAT URBAN CLASS 1 TYPE B
- EROSION MAT CLASS II TYPE C
- CULVERT PIPE CHECK
- SURFACE WATER FLOW
- SILT FENCE
- ROCK BAGS
- INLET PROTECTION
- SENSITIVE AREA
- MITIGATED WETLAND IMPACT AREA

BENCH MARKS & CONTROL POINTS			
NO.	STATION	ELEV.	DESCRIPTION
922	867'SB'+04.53	869.40	CP / IR 3/4" WITH RED CAP, 46.99' RT
921	870'SB'+68.48	864.70	CP / IR 3/4" WITH RED CAP, 42.81' RT

COMMUNICATIONS
(MARQUETTE ADAMS TELEPHONE COOP INC)

REMOVING GUARDRAIL
STEEL THRIE BEAM
STEEL THRIE BEAM BULLNOSE TERMINAL

868'SB'+21.19, 33.18' RT

869'SB'+58.62, 33.08' RT

IH 39 SB

867'SB' 868'SB' 869'SB' 870'SB' 871'SB' 872'SB' 873'SB'

CP 921

CP 922

868'SB'+21.04, 47.38' RT

SLOPE INTERCEPT

869'SB'+58.56, 47.28' RT

CTH M / ELK RD

IH 39 NB

SLOPE INTERCEPT

39039005281
EXISTING 30" CMP - 100 LF
UV GRP 30-INCH
MARKERS FOR CULVERT END
STA 872+34.04'SB', 30.00' RT
IE = 857.25 (30")
REMOVING STORM SEWER 30-INCH
(FOR CULVERT LINING ACCESS)
SSPRC CLASS III 30-INCH
8 LF - SSPRC CLASS III 30-INCH @ 1.19%

EXISTING CONNECTION
BETWEEN CMP AND RCCP

CONCRETE
COLLARS FOR PIPE

STA 872+38'SB', 36.96' RT
IE = 857.16 (30")

SLOPE INTERCEPT

EXISTING MEDIAN INLET TO REMAIN

EXISTING 18" RCCP - 8 LF
TO REMAIN

BLIND TEE CONNECTION
TO REMAIN

39039005280
EXISTING 30" RCCP - 120 LF
TO REMAIN

2

PROJECT NO: 1166-04-85	HWY: IH 39	COUNTY: MARQUETTE	CONSTRUCTION AND EROSION CONTROL DETAILS	SHEET 19	E

FILE NAME : G:\00\00093\00093777\CADD\SHEETSPLAN\021002-CD.DWG
LAYOUT NAME - 021008-cd
PLOT DATE : 5/21/2026 2:34 PM
PLOT BY : SHAWN DOLENS
PLOT NAME :
PLOT SCALE : 1 IN:40 FT
WISDOT/CADDS SHEET 44

BENCH MARKS & CONTROL POINTS			
NO.	STATION	ELEV.	DESCRIPTION
920	946'SB'+40.25	870.08	CP / IR 3/4" WITH RED CAP, 41.08 RT
919	949'SB'+99.06	897.37	CP / IR 3/4" WITH RED CAP, 38.40' RT

EDGEWOOD CT

COMMUNICATIONS (PIONEER POWER AND LIGHT COMPANY)

ELECTRICITY (PIONEER POWER AND LIGHT COMPANY)

COMMUNICATIONS (MARQUETTE ADAMS TELEPHONE COOP INC)

N

IH 39 SB

PC: 947'SB'+31.45

946'SB' 947'SB' 948'SB' 949'SB' 950'SB' 951'SB'

947'SB'+57.02, 27.71' RT

948'SB'+81.74, 28.52' RT

CP 920

947'SB'+56.86, 41.91' RT

SLOPE INTERCEPT

REMOVING GUARDRAIL
STEEL THRIE BEAM
STEEL THRIE BEAM BULLNOSE TERMINAL

948'SB'+81.62, 42.72' RT

CP 919

IH 39 NB

LEGEND

- EROSION MAT URBAN CLASS 1 TYPE B
- EROSION MAT CLASS II TYPE C
- CULVERT PIPE CHECK
- SURFACE WATER FLOW
- SILT FENCE
- ROCK BAGS
- INLET PROTECTION
- SENSITIVE AREA
- MITIGATED WETLAND IMPACT AREA

N

STA 414+77.76'LC', -66.08' LT
IE = 866.64 (30")

SLOPE INTERCEPT

24 LF - CPRC CLASS IV 30-INCH @ 0.53%

CULVERT PIPE SALVAGED 30-INCH
APRON ENDWALLS FOR CULVERT PIPE SALVAGED 30-INCH

DELINEATED WETLANDS (TYP.)

BP: 413'LC'+15.63

PC: 417'LC'+00.00

414'LC' 415'LC' 416'LC' 417'LC'

PC: 982'SB'+92.59

IH 39 SB

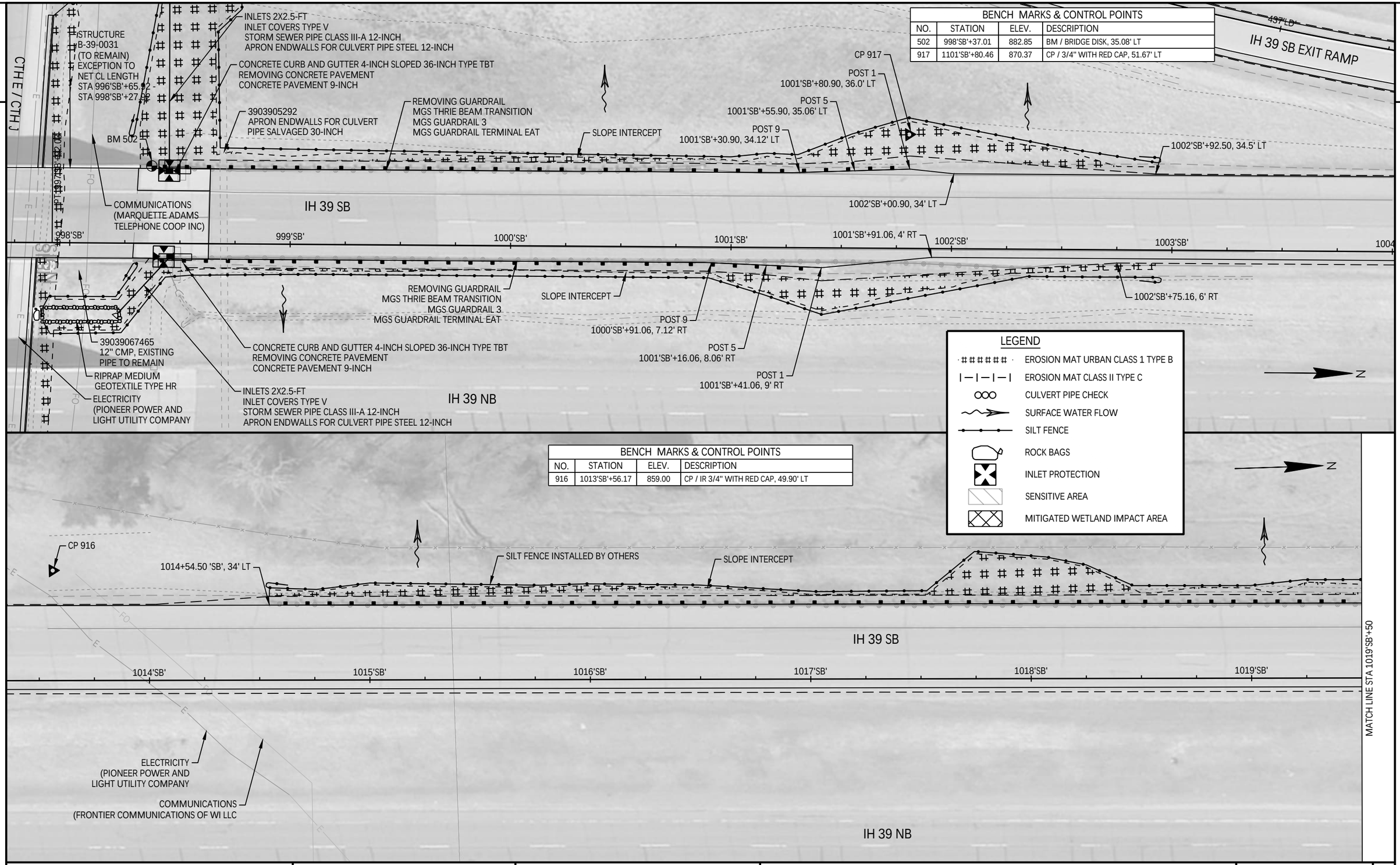
979'SB' 980'SB' 981'SB' 982'SB' 983'SB' 984'SB'

PROJECT NO: 1166-04-85	HWY: IH 39	COUNTY: MARQUETTE	CONSTRUCTION AND EROSION CONTROL DETAILS	SHEET 20	E

FILE NAME : G:\00\00093\00093777\CADD\SHEETSPLAN\021002-CD.DWG
LAYOUT NAME - 021009-cd

PLOT DATE : 5/21/2026 2:34 PM PLOT BY : SHAWN DOLENS PLOT NAME : PLOT SCALE : 1 IN:40 FT

WISDOT/CADDS SHEET 44



BENCH MARKS & CONTROL POINTS

NO.	STATION	ELEV.	DESCRIPTION
502	998'SB'+37.01	882.85	BM / BRIDGE DISK, 35.08' LT
917	1101'SB'+80.46	870.37	CP / 3/4" WITH RED CAP, 51.67' LT

BENCH MARKS & CONTROL POINTS

NO.	STATION	ELEV.	DESCRIPTION
916	1013'SB'+56.17	859.00	CP / IR 3/4" WITH RED CAP, 49.90' LT

LEGEND

- EROSION MAT URBAN CLASS 1 TYPE B
- EROSION MAT CLASS II TYPE C
- CULVERT PIPE CHECK
- SURFACE WATER FLOW
- SILT FENCE
- ROCK BAGS
- INLET PROTECTION
- SENSITIVE AREA
- MITIGATED WETLAND IMPACT AREA

PROJECT NO: 1166-04-85	HWY: IH 39	COUNTY: MARQUETTE	CONSTRUCTION AND EROSION CONTROL DETAILS	SHEET 21	E

2

BENCH MARKS & CONTROL POINTS			
NO.	STATION	ELEV.	DESCRIPTION
915	1023'SB'+55.96	863.13	CP / IR 3/4" WITH RED CAP, 22.76' RT

N

REMOVING GUARDRAIL
MGS GUARDRAIL 3
MGS GUARDRAIL TERMINAL EAT
MGS GUARDRAIL TERMINAL TYPE 2

39039005297
54" CMP, EXISTING
PIPE TO REMAIN

SLOPE INTERCEPT

SILT FENCE INSTALLED BY OTHERS

IH 39 SB

MATCH LINE STA 1019'SB'+50

1020'SB' 1021'SB' 1022'SB' 1023'SB' 1024'SB' 1025'SB'

MATCH LINE STA 1025'SB'+50

CP 915

IH 39 NB

LEGEND

- EROSION MAT URBAN CLASS 1 TYPE B
- EROSION MAT CLASS II TYPE C
- CULVERT PIPE CHECK
- SURFACE WATER FLOW
- SILT FENCE
- ROCK BAGS
- INLET PROTECTION
- SENSITIVE AREA
- MITIGATED WETLAND IMPACT AREA

BENCH MARKS & CONTROL POINTS			
NO.	STATION	ELEV.	DESCRIPTION
914	1030'SB'+82.38	880.51	CP / IR 3/4" WITH RED CAP, 66.25' LT

N

POST 1
1031'SB'+32.50, 36.0' LT

POST 5
1031'SB'+07.50, 35.06' LT

CP 914

POST 9
1030'SB'+82.50, 34.12' LT

SILT FENCE INSTALLED BY OTHERS

SLOPE INTERCEPT

IH 39 SB

MATCH LINE STA 1025'SB'+50

1026'SB' 1027'SB' 1028'SB' 1029'SB' 1030'SB' 1031'SB'

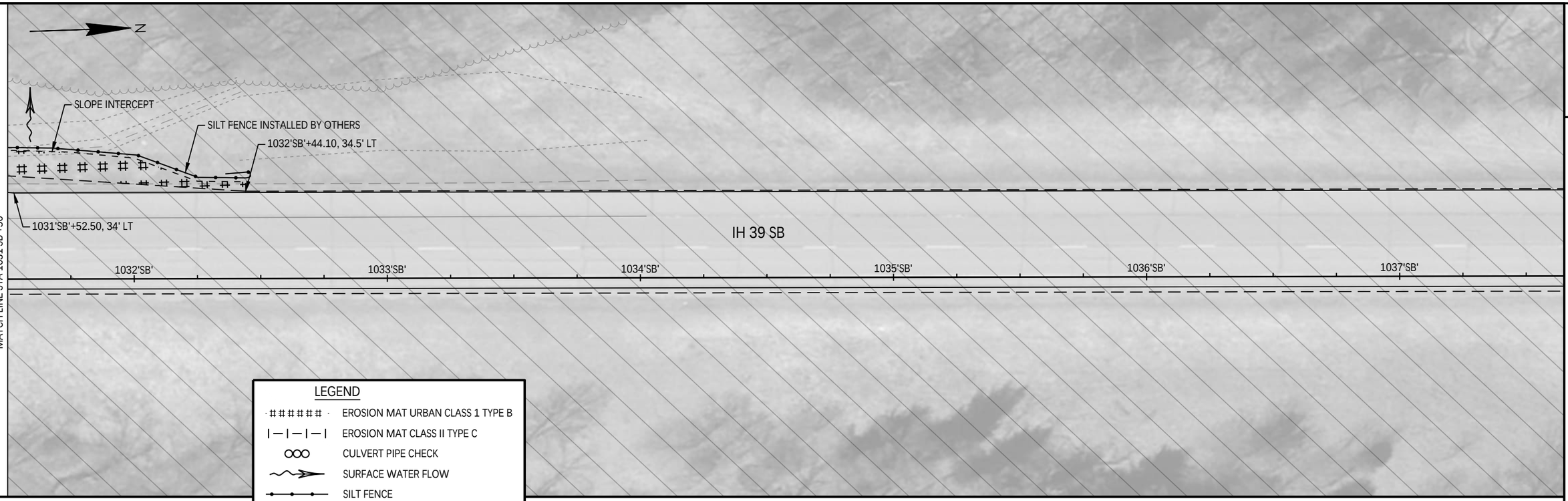
MATCH LINE STA 1031'SB'+50

PROJECT NO: 1166-04-85	HWY: IH 39	COUNTY: MARQUETTE	CONSTRUCTION AND EROSION CONTROL DETAILS	SHEET 22	E

FILE NAME : G:\00\00093\00093777\CADD\SHEETSPLAN\021002-CD.DWG
LAYOUT NAME - 021011-cd

PLOT DATE : 5/21/2026 2:36 PM PLOT BY : SHAWN DOLENS PLOT NAME : PLOT SCALE : 1 IN:40 FT

2



2

LEGEND

- EROSION MAT URBAN CLASS 1 TYPE B
- EROSION MAT CLASS II TYPE C
- CULVERT PIPE CHECK
- SURFACE WATER FLOW
- SILT FENCE
- ROCK BAGS
- INLET PROTECTION
- SENSITIVE AREA
- MITIGATED WETLAND IMPACT AREA

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PROJECT NO: 1166-04-85	HWY: IH 39	COUNTY: MARQUETTE	CONSTRUCTION AND EROSION CONTROL DETAILS	SHEET 23	E

BENCH MARKS & CONTROL POINTS			
NO.	STATION	ELEV.	DESCRIPTION
912	1071'SB'+61.15	907.30	CP / IR 3/4" WITH RED CAP, 49.70' LT

1072'SB'+62.00, 34' LT
SILT FENCE INSTALLED BY OTHERS
SLOPE INTERCEPT
CP 912
IH 39 SB
1072'SB'
1073'SB'
1074'SB'
1075'SB'
1076'SB'
1077'SB'
MATCH LINE STA 1077'SB'+25
1071'SB'+65.90, 6' RT
1072'SB'+05.00, 4' RT
1072'SB'+25.00, 6' RT
SILT FENCE INSTALLED BY OTHERS
SLOPE INTERCEPT

LEGEND

- EROSION MAT URBAN CLASS 1 TYPE B
- EROSION MAT CLASS II TYPE C
- CULVERT PIPE CHECK
- SURFACE WATER FLOW
- SILT FENCE
- ROCK BAGS
- INLET PROTECTION
- SENSITIVE AREA
- MITIGATED WETLAND IMPACT AREA

BENCH MARKS & CONTROL POINTS			
NO.	STATION	ELEV.	DESCRIPTION
911	1080'SB'+33.83	900.46	CP / IR 3/4" WITH RED CAP, 46.88' LT

SILT FENCE INSTALLED BY OTHERS
SLOPE INTERCEPT
CP 911
REMOVING GUARDRAIL
MGS GUARDRAIL 3
MGS GUARDRAIL TERMINAL EAT
MGS GUARDRAIL TERMINAL TYPE 2
IH 39 SB
1078'SB'
1079'SB'
1080'SB'
1081'SB'
1082'SB'
1083'SB'
MATCH LINE STA 1077'SB'+25
MATCH LINE STA 1083'SB'+25
SILT FENCE INSTALLED BY OTHERS
SLOPE INTERCEPT
REMOVING GUARDRAIL
MGS GUARDRAIL 3
MGS GUARDRAIL TERMINAL EAT
MGS GUARDRAIL TERMINAL TYPE 2

PROJECT NO: 1166-04-85	HWY: IH 39	COUNTY: MARQUETTE	CONSTRUCTION AND EROSION CONTROL DETAILS	SHEET 24	E

BENCH MARKS & CONTROL POINTS			
NO.	STATION	ELEV.	DESCRIPTION
910	1086'SB'+72.48	896.02	CP / IR 3/4" WITH RED CAP, 52.34' LT

POST 1
1085'SB'+02.60, 36.0' LT

POST 5
1084'SB'+77.60, 35.06' LT

POST 9
1084'SB'+52.60, 34.12' LT

SLOPE INTERCEPT

SILT FENCE INSTALLED BY OTHERS

CP 910

1086'SB'+14.20, 34.5' LT

1085'SB'+22.60, 34' LT

IH 39 SB

MATCH LINE STA 1083'SB'+25

1084'SB' 1085'SB' 1086'SB' 1087'SB' 1088'SB' 1089'SB'

1086'SB'+30.60, 4' RT

1087'SB'+09.70, 6' RT

SLOPE INTERCEPT

POST 9
1085'SB'+40.60, 6.12' RT

POST 5
1085'SB'+65.60, 7.06' RT

POST 1
1085'SB'+90.60, 8' RT

SILT FENCE INSTALLED BY OTHERS

LEGEND

- EROSION MAT URBAN CLASS 1 TYPE B
- EROSION MAT CLASS II TYPE C
- CULVERT PIPE CHECK
- SURFACE WATER FLOW
- SILT FENCE
- ROCK BAGS
- INLET PROTECTION
- SENSITIVE AREA
- MITIGATED WETLAND IMPACT AREA

BENCH MARKS & CONTROL POINTS			
NO.	STATION	ELEV.	DESCRIPTION
909	1108'SB'+48.40	882.62	CP / IR 3/4" WITH RED CAP, 17.91' RT

SLOPE INTERCEPT

1109'SB'+55.12, 34' LT

PT: 1109'SB'+26.30

REMOVING GUARDRAIL
MGS GUARDRAIL 3
MGS GUARDRAIL TERMINAL EAT
MGS GUARDRAIL TERMINAL TYPE 2

SILT FENCE INSTALLED BY OTHERS

IH 39 SB

1107'SB' 1108'SB' 1109'SB' 1110'SB' 1111'SB' 1112'SB'

MATCH LINE STA 1112'SB'+75

CP 909

PROJECT NO: 1166-04-85	HWY: IH 39	COUNTY: MARQUETTE	CONSTRUCTION AND EROSION CONTROL DETAILS	SHEET 25	E

FILE NAME : G:\00\00093\00093777\CADD\SHEETSPLAN\021002-CD.DWG
LAYOUT NAME - 021014-cd

PLOT DATE : 5/21/2026 2:36 PM PLOT BY : SHAWN DOLENS PLOT NAME : PLOT SCALE : 1 IN:40 FT

2

BENCH MARKS & CONTROL POINTS			
NO.	STATION	ELEV.	DESCRIPTION
908	1116'SB'+41.14	887.51	CP / IR 3/4" WITH RED CAP, 73.67' LT

POST 1
1115'SB'+33.20, 36.0' LT
POST 5
1115'SB'+08.22, 35.06' LT
POST 9
1114'SB'+83.24, 34.12' LT
CP 908
SILT FENCE INSTALLED BY OTHERS
SLOPE INTERCEPT
1116'SB'+44.80, 34.5' LT
1115'SB'+53.20, 34' LT
IH 39 SB
1113'SB'
1114'SB'
1115'SB'
1116'SB'
1117'SB'
1118'SB'
MATCH LINE STA 1112'SB'+75

N

DOVER CT

REMOVING GUARDRAIL
MGS THRIE BEAM TRANSITION
MGS GUARDRAIL 3
MGS GUARDRAIL TERMINAL EAT
POST 9
1175'SB'+53.56, 35.12' LT
REMOVING CURB & GUTTER
CONCRETE CURB & GUTTER
4-INCH SLOPED 36-INCH TYPE TBT
GRADE DITCH TO DRAIN
SEE CROSS SECTIONS
INLETS 2X2.5-FT
INLET COVERS TYPE V
STORM SEWER PIPE CLASS III-A 12-INCH
APRON ENDWALLS FOR CULVERT PIPE 12-INCH
COMMUNICATIONS
(FRONTIER COMMUNICATIONS OF WI LLC)
BM 501
OVERHEAD ELECTRICTY
(ALLIANT ENERGY)
PI: 1175'SB'+91.65
POST 5
1175'SB'+78.56, 36.08' LT
POST 1
1176'SB'+03.68, 37.0' LT
SLOPE INTERCEPT
CP 906
1177+25.75 'SB', 34.5' LT
1176'SB'+32.95, 34' LT
IH 39 SB
1174'SB'
1175'SB'
1176'SB'
1177'SB'
1178'SB'
1179'SB'
STRUCTURE B-39-0033
(TO REMAIN)
EXCEPTION TO NET CL LENGTH
STA 1173'SB'+59.02 - STA 1174'SB'+74.02
REMOVING CONCRETE PAVEMENT
CONCRETE PAVEMENT 9-INCH
REMOVING CONCRETE PAVEMENT (EXISTING APPROACH SLAB)
CONCRETE APPROACH SLAB
REMOVING CONCRETE PAVEMENT
CONCRETE PAVEMENT 9-INCH
COMMUNICATIONS
(MARQUETTE ADAMS TELEPHONE COOP INC))
REMOVING CONCRETE PAVEMENT
CONCRETE PAVEMENT 9-INCH
REMOVING CURB & GUTTER
CONCRETE CURB & GUTTER
4-INCH SLOPED 36-INCH TYPE TBT
REMOVING CONCRETE PAVEMENT (EXISTING APPROACH SLAB)
CONCRETE APPROACH SLAB
REMOVING CONCRETE PAVEMENT
CONCRETE PAVEMENT 9-INCH
GRADE DITCH TO DRAIN
SEE CROSS SECTIONS
SLOPE INTERCEPT
REMOVING GUARDRAIL
MGS THRIE BEAM TRANSITION
MGS GUARDRAIL 3
MGS GUARDRAIL TERMINAL EAT
MATCH LINE STA 1179'SB'+50

BENCH MARKS & CONTROL POINTS			
NO.	STATION	ELEV.	DESCRIPTION
501	1174'SB'+85.13	930.63	BM / BRIDGE DISK, 35.45' LT
906	1178'SB'+05.11	923.21	CP / IR 3/4" WITH RED CAP, 50.89' LT

LEGEND

- EROSION MAT URBAN CLASS 1 TYPE B
- EROSION MAT CLASS II TYPE C
- CULVERT PIPE CHECK
- SURFACE WATER FLOW
- SILT FENCE
- ROCK BAGS
- INLET PROTECTION
- SENSITIVE AREA
- MITIGATED WETLAND IMPACT AREA

2

PROJECT NO: 1166-04-85	HWY: IH 39	COUNTY: MARQUETTE	CONSTRUCTION AND EROSION CONTROL DETAILS	SHEET 26	E

FILE NAME : G:\00\00093\00093777\CADD\SHEETSPLAN\021002-CD.DWG
LAYOUT NAME - 021015-cd
PLOT DATE : 5/21/2026 2:36 PM
PLOT BY : SHAWN DOLENS
PLOT NAME :
PLOT SCALE : 1 IN:40 FT
WISDOT/CADDS SHEET 44

2

2

N

39039005332
24" CMP, EXISTING
PIPE TO REMAIN

PI: 1180'SB'+45.82

MATCH LINE STA 1179'SB'+50

IH 39 SB

1180'SB' 1181'SB' 1182'SB' 1183'SB' 1184'SB' 1185'SB'

1183'SB'+19.00, 4.00' RT

1183'SB'+88.10, 6' RT

SLOPE INTERCEPT

POST 9
1182'SB'+49.00, 4.12' RT

POST 5
1182'SB'+74.00, 5.06' RT

POST 1
1182'SB'+99.00, 6' RT

LEGEND

- EROSION MAT URBAN CLASS 1 TYPE B
- EROSION MAT CLASS II TYPE C
- CULVERT PIPE CHECK
- SURFACE WATER FLOW
- SILT FENCE
- ROCK BAGS
- INLET PROTECTION
- SENSITIVE AREA
- MITIGATED WETLAND IMPACT AREA

BENCH MARKS & CONTROL POINTS			
NO.	STATION	ELEV.	DESCRIPTION
905	1259'SB'+17.09	931.46	CP / IR 3/4" WITH RED CAP, 20.36' RT
500	1262'SB'+39.35	929.88	BM / BRIDGE DISK, 34.55' LT

SILT FENCE INSTALLED BY OTHERS
1257'SB'+94.72, 33.40' LT

SLOPE INTERCEPT

REMOVING GUARDRAIL
MGS THRIE BEAM TRANSITION
MGS GUARDRAIL 3
MGS GUARDRAIL TYPE 2 TERMINAL

EXISTING FENCE TO REMAIN (TYP)

RIPRAP MEDIUM
GEOTEXTILE TYPE HR

REMOVING ASPHALTIC SURFACE

CONCRETE CURB & GUTTER 4-INCH
SLOPED 36-INCH TYPE TBT
INLETS 2X2.5-FT
INLET COVERS TYPE V
STORM SEWER PIPE CLASS III-A 12-INCH
APRON ENDWALLS FOR CULVERT PIPE
STEEL 12-INCH

CTH Z

REMOVING CONCRETE PAVEMENT
CONCRETE PAVEMENT 9-INCH

REMOVING CURB AND GUTTER
CONCRETE CURB & GUTTER 4-INCH
SLOPED 36-INCH TYPE TBT
INLETS 2X2.5-FT
INLET COVERS TYPE V
STORM SEWER PIPE CLASS III-A 12-INCH
APRON ENDWALLS FOR CULVERT PIPE
STEEL 12-INCH

RIPRAP MEDIUM
GEOTEXTILE TYPE HR

SILT FENCE
INSTALLED BY OTHERS

SLOPE INTERCEPT

N

PC: 1257'SB'+66.74

IH 39 SB

1258'SB' 1259'SB' 1260'SB' 1261'SB' 1262'SB' 1263'SB'

BM 500

MATCH LINE STA 1263'SB'+25

SILT FENCE INSTALLED BY OTHERS

CP 905

1260'SB'+48.15, 4' RT

REMOVING CONCRETE PAVEMENT
CONCRETE PAVEMENT 9-INCH

REMOVING CONCRETE PAVEMENT (EXISTING APPROACH SLAB)
CONCRETE APPROACH SLAB

REMOVING CONCRETE PAVEMENT
CONCRETE PAVEMENT 9-INCH

SLOPE INTERCEPT

SILT FENCE INSTALLED BY OTHERS

STRUCTURE B-39-0040
(TO REMAIN)
EXCEPTION TO NET CL LENGTH
STA 1261'SB'+25.25 - STA 1262'SB'+40.39

PROJECT NO: 1166-04-85	HWY: IH 39	COUNTY: MARQUETTE	CONSTRUCTION AND EROSION CONTROL DETAILS	SHEET 27	E

BENCH MARKS & CONTROL POINTS			
NO.	STATION	ELEV.	DESCRIPTION
904	1267'SB'+45.65	926.92	CP / IR 3/4" WITH RED CAP, 28.62' RT

ELECTRICITY
(PIONEER POWER AND LIGHT COMPANY)

REMOVING GUARDRAIL
MGS THRIE BEAM TRANSITION
MGS GUARDRAIL 3
MGS GUARDRAIL TERMINAL EAT

POST 1
1265'SB'+73.32, 35.40' LT

POST 5
1265'SB'+48.11, 34.55' LT

POST 9
1265'SB'+22.91, 33.54' LT

SLOPE INTERCEPT

SILT FENCE INSTALLED BY OTHERS

1266'SB'+75.94, 34.5' LT

1265'SB'+87.32, 34' LT

MATCH LINE STA 1263'SB'+25

IH 39 SB

1264'SB'

1265'SB'

1266'SB'

1266'SB'+89.65, 4.00' RT

1267'SB'

1268'SB'

1269'SB'

REMOVING GUARDRAIL
MGS THRIE BEAM TRANSITION
MGS GUARDRAIL 3
MGS GUARDRAIL TERMINAL EAT

SLOPE INTERCEPT

SILT FENCE INSTALLED BY OTHERS

POST 9
1265'SB'+89.79, 7.10' RT

POST 5
1266'SB'+14.72, 7.97' RT

POST 1
1266'SB'+39.65, 9' RT

1267'SB'+73.75, 6' RT

CP 904

LEGEND

- EROSION MAT URBAN CLASS 1 TYPE B
- EROSION MAT CLASS II TYPE C
- CULVERT PIPE CHECK
- SURFACE WATER FLOW
- SILT FENCE
- ROCK BAGS
- INLET PROTECTION
- SENSITIVE AREA
- MITIGATED WETLAND IMPACT AREA

COMMUNICATIONS
(FRONTIER COMMUNICATIONS OF WI LLC)

MATCH LINE STA 75'C'+50

72'C'

73'C'

73'TTT'

74'C'

74'TTT'

75'C'

75'TTT'

BP: 72'TTT'+10.55

PC: 72'TTT'+52.58

1338'SB'

1339'SB'

IH 39 SB

PROJECT NO: 1166-04-85	HWY: IH 39	COUNTY: MARQUETTE	CONSTRUCTION AND EROSION CONTROL DETAILS	SHEET 28	E

FILE NAME : G:\00\00093\00093777\CADD\SHEETSPLAN\021002-CD.DWG
LAYOUT NAME - 021017-cd

PLOT DATE : 5/21/2026 2:37 PM PLOT BY : SHAWN DOLENS PLOT NAME : PLOT SCALE : 1 IN:40 FT

2

N

LEGEND

- EROSION MAT URBAN CLASS 1 TYPE B
- EROSION MAT CLASS II TYPE C
- CULVERT PIPE CHECK
- SURFACE WATER FLOW
- SILT FENCE
- ROCK BAGS
- INLET PROTECTION
- SENSITIVE AREA
- MITIGATED WETLAND IMPACT AREA

BM 512

COMMUNICATIONS
(FRONTIER COMMUNICATIONS OF WI LLC)

ELECTRICITY
(WISDOT)

CP 944

CP 945

MATCH LINE STA 75'C'+50

76'C'

77'C'

78'C'

79'C'

80'C'

81'C'

82'C'

PT: 76'TTT'+56.00

BP: 79'CT'+32.68

ELECTRICITY
(WISDOT)

76'TTT'

77'TTT'

78'TTT'

79'TTT'

80'TTT'

81'TTT'

PC: 83'CT'+94.84

MATCH LINE STA 83'C'+00

80'CT'

81'CT'

82'CT'

83'CT'

84'CT'

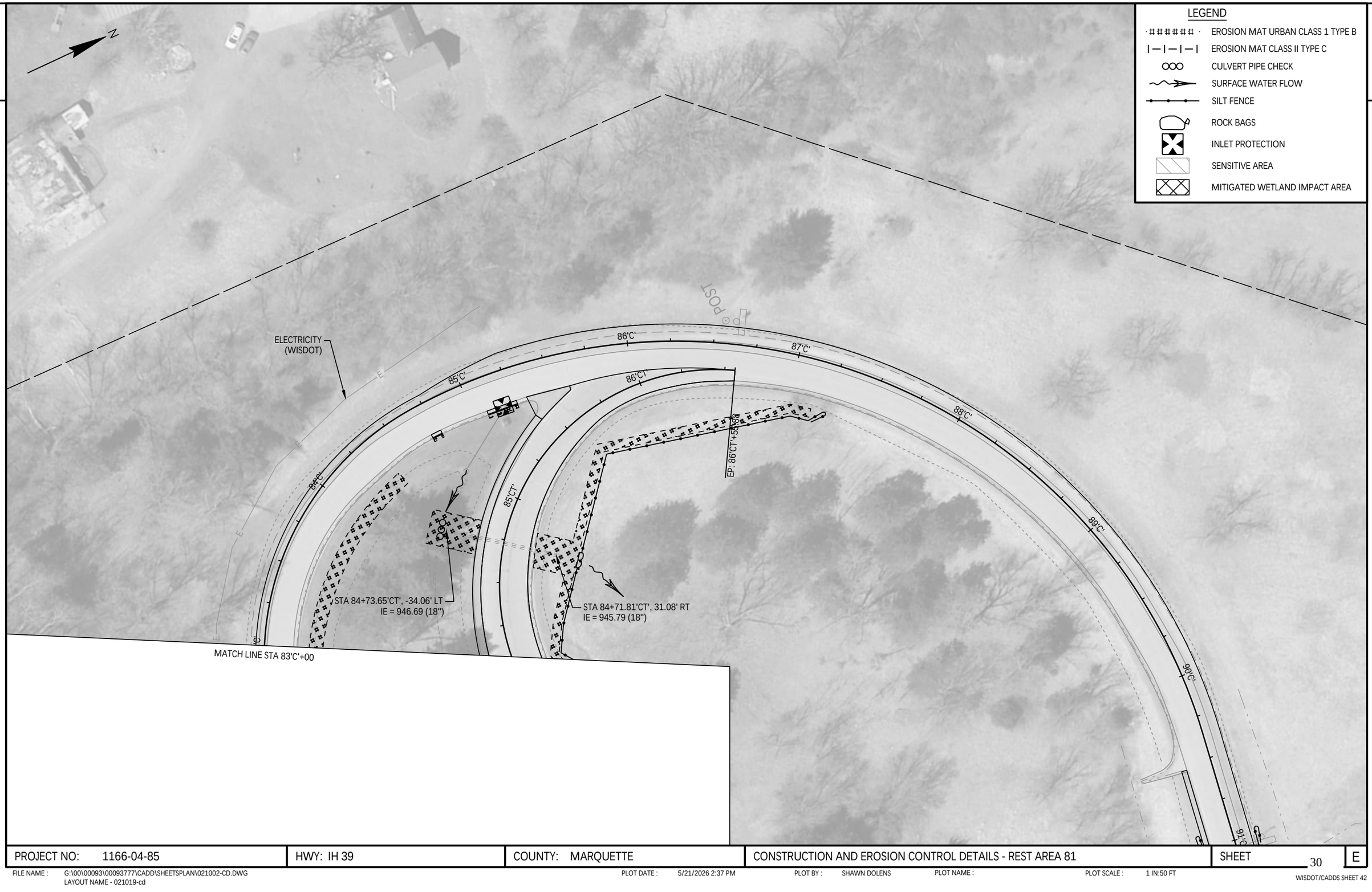
EXISTING SEPTIC SYSTEM
(DO NOT DISTURB)

PROJECT NO: 1166-04-85	HWY: IH 39	COUNTY: MARQUETTE	CONSTRUCTION AND EROSION CONTROL DETAILS - REST AREA 81	SHEET 29	E

FILE NAME : G:\00\00093\00093777\CADD\SHEETSPLAN\021002-CD.DWG
LAYOUT NAME - 021018-cd

PLOT DATE : 5/21/2026 2:37 PM PLOT BY : SHAWN DOLENS PLOT NAME : PLOT SCALE : 1 IN:50 FT

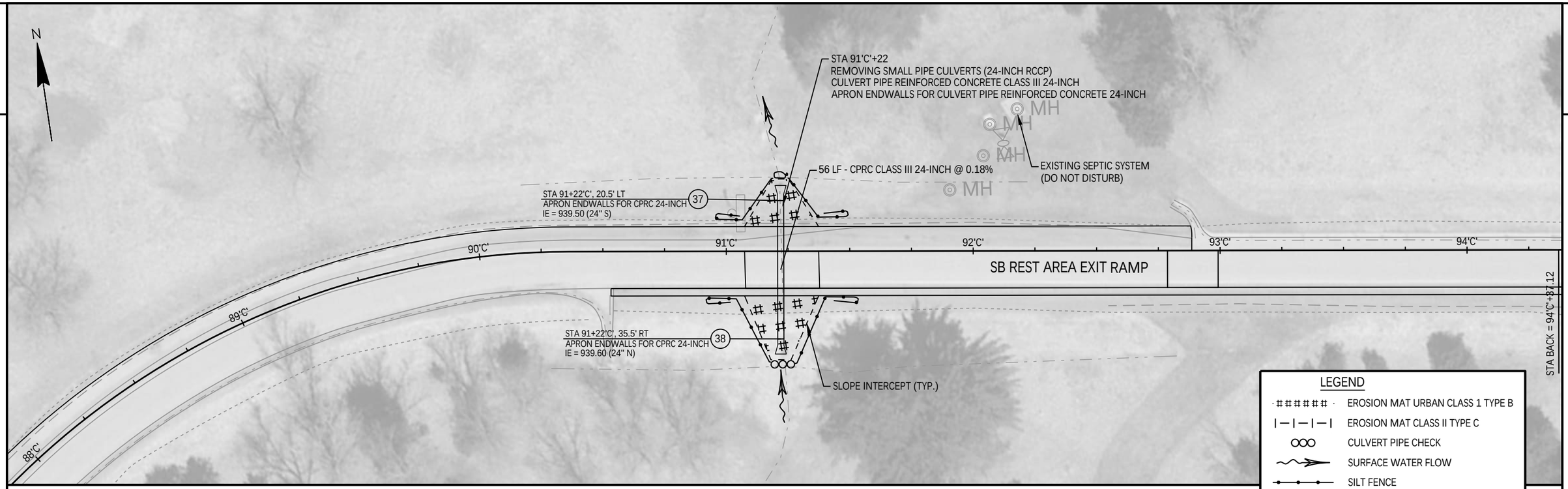
2



PROJECT NO: 1166-04-85	HWY: IH 39	COUNTY: MARQUETTE	CONSTRUCTION AND EROSION CONTROL DETAILS - REST AREA 81	SHEET 30	E

FILE NAME : G:\00\00093\00093777\CADD\SHEETSPLAN\021002-CD.DWG
LAYOUT NAME - 021019-cd

PLOT DATE : 5/21/2026 2:37 PM PLOT BY : SHAWN DOLENS PLOT NAME : PLOT SCALE : 1 IN:50 FT



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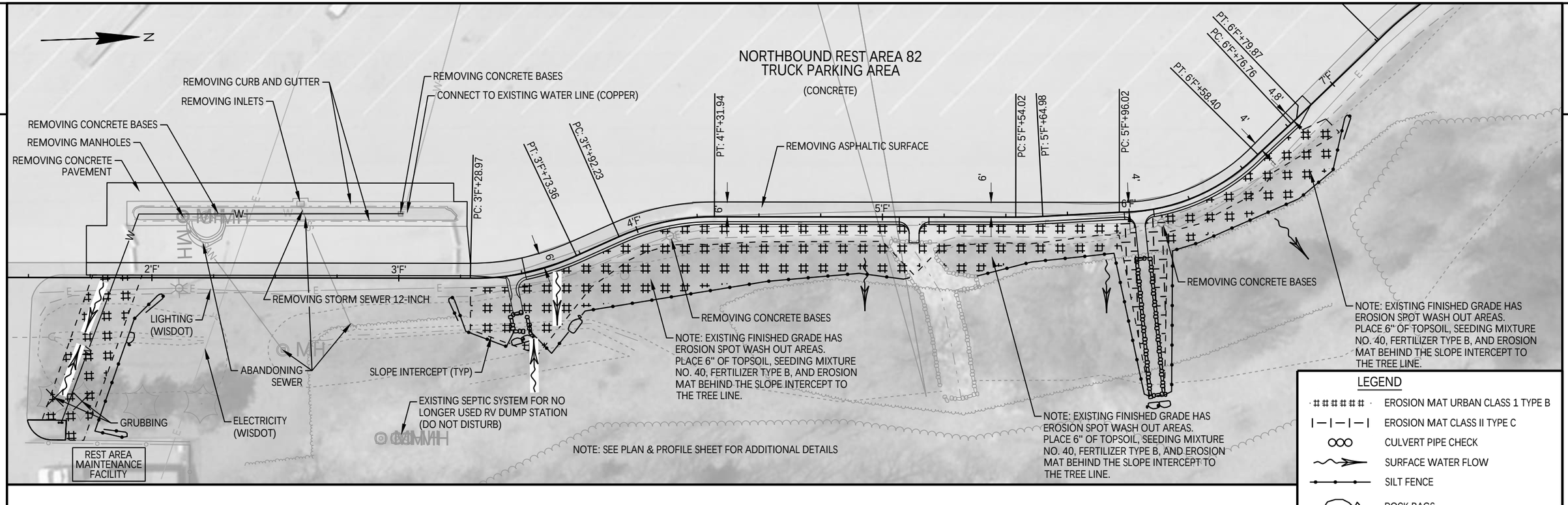
PROJECT NO: 1166-04-85	HWY: IH 39	COUNTY: MARQUETTE	CONSTRUCTION AND EROSION CONTROL DETAILS - REST AREA 81	SHEET 31	E

FILE NAME : G:\00\00093\00093777\CADD\SHEETSPLAN\021002-CD.DWG
LAYOUT NAME - 021020-cd

PLOT DATE : 5/21/2026 2:37 PM PLOT BY : SHAWN DOLENS PLOT NAME : PLOT SCALE : 1 IN:40 FT

2



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N

ASPHALTIC FLUMES
RIPRAP MEDIUM
GEOTEXTILE TYPE HR (TYP)

STA 431+57'LD', 49.2' LT
APRON ENDWALLS FOR CPRC 36-INCH
IE = 850.90 (36" E)
26

ELECTRICITY
(PIONEER POWER AND
LIGHT COMPANY)

IH 39 SB OFF RAMP

433'LD'

432'LD'

90 LF - CPRC CLASS IV 36-INCH @ 0.22%

25 STA 431+79'LD', 38.4' RT
APRON ENDWALLS FOR CPRC 36-INCH
IE = 851.10 (36" W)

REMOVING SMALL PIPE CULVERTS (36-INCH RCCP)
CULVERT PIPE REINFORCED CONCRETE CLASS IV 36-INCH
APRON ENDWALLS FOR CULVERT PIPE REINFORCED
CONCRETE 36-INCH
CULVERT PIPE CHECKS

APRON ENDWALLS FOR
CULVERT PIPE SALVAGED
30-INCH

RIPRAP MEDIUM
GEOTEXTILE TYPE HR (TYP)

BM 502

IH 39 SB

IH 39 NB

1000'SB'

999'SB'

998'SB'

997'SB'

GAS
(WE ENERGIES)

COMMUNICATIONS
(MARQUETTE ADAMS TELEPHONE COOP INC)

ELECTRICITY
(PIONEER POWER AND LIGHT COMPANY)

BP: 431'LD'+00.00

216'WB'

217'WB'

218'WB'

219'WB'

220'WB'

221'WB'

222'WB'

223'WB'

116'EB'

117'EB'

118'EB'

119'EB'

120'EB'

121'EB'

122'EB'

123'EB'

CTH E / CTH J

CP 946

EP: 430'LC'+98.17

ELECTRICITY
(PIONEER POWER AND LIGHT COMPANY)

EXISTING LIGHT POLE TO REMAIN

64 LF - CPRC CLASS IV 30-INCH @ 0.47%

STA 430+30'LC', 27.5' LT
APRON ENDWALLS FOR CPRC 30-INCH
IE = 852.70 (30" E)
35

34 STA 430+15'LC', 35.0' RT
APRON ENDWALLS FOR CPRC 30-INCH
IE = 853.00 (30" W)

SLOPE INTERCEPT (TYP)

CP 947

CP 918

430'LC'

428'LC'

IH 39 SB ON RAMP

EXISTING R/W

REMOVING SMALL PIPE CULVERTS (30-INCH RCCP)
CULVERT PIPE REINFORCED CONCRETE CLASS IV 30-INCH
APRON ENDWALLS FOR CULVERT PIPE REINFORCED
CONCRETE 30-INCH
CULVERT PIPE CHECKS

996'SB'

SIGN

LEGEND

- EROSION MAT URBAN CLASS 1 TYPE B
- EROSION MAT CLASS II TYPE C
- CULVERT PIPE CHECK
- SURFACE WATER FLOW
- SILT FENCE
- ROCK BAGS
- INLET PROTECTION
- SENSITIVE AREA
- MITIGATED WETLAND IMPACT AREA

PROJECT NO: 1166-04-85	HWY: IH 39	COUNTY: MARQUETTE	CONSTRUCTION AND EROSION CONTROL DETAILS - CTH E/J	SHEET 33	E

FILE NAME : G:\00\00093\00093777\CADD\SHEETSPLAN\021002-CD.DWG
LAYOUT NAME - 021022-cd

PLOT DATE : 5/21/2026 2:37 PM PLOT BY : SHAWN DOLENS PLOT NAME : PLOT SCALE : 1 IN:50 FT

CURB RAMP WEST ENTRANCE						
POINT NUMBER	STATION	OFFSET	ELEVATION	NORTHING	EASTING	DESCRIPTION
100	79+08.68'C'	26.48' LT	953.47	321788.71	426929.19	BOC
101	79+03.71'C'	26.49' LT	953.45	321789.01	426934.15	BOC
102	78+98.68'C'	24.02' LT	953.50	321791.80	426939.02	EOP
103	78+98.71'C'	26.50' LT	953.81	321789.32	426939.15	BOC
104	79+03.72'C'	28.51' LT	953.59	321787.00	426934.28	WALK
105	78+98.71'C'	32.53' LT	953.96	321783.30	426939.52	EOW
106	78+98.76'C'	36.21' LT	954.09	321779.63	426939.71	EOW
107	79+00.73'C'	37.51' LT	954.01	321778.20	426937.82	EOW
108	79+03.72'C'	32.51' LT	953.87	321783.01	426934.52	WALK
109	79+03.73'C'	37.51' LT	953.94	321778.02	426934.82	EOW
110	79+02.46'C'	44.38' LT	954.43	321771.23	426936.53	EOW
111	79+03.77'C'	44.38' LT	954.42	321771.16	426935.21	EOW
112	79+08.74'C'	44.35' LT	954.39	321770.88	426930.25	EOW
113	79+10.05'C'	44.34' LT	954.39	321770.80	426928.94	EOW
114	79+08.70'C'	37.50' LT	953.96	321777.72	426929.86	WALK
115	79+13.09'C'	37.49' LT	954.07	321777.45	426925.49	EOW
116	79+14.19'C'	36.29' LT	954.06	321778.58	426924.31	EOW
117	79+14.09'C'	32.47' LT	953.99	321782.39	426924.17	WALK
118	79+18.35'C'	33.53' LT	954.06	321781.07	426919.98	EOW

CURB RAMP WEST ENTRANCE						
POINT NUMBER	STATION	OFFSET	ELEVATION	NORTHING	EASTING	DESCRIPTION
119	79+18.27'C'	32.46' LT	954.06	321782.15	426920.00	EOW
120	79+18.18'C'	26.47' LT	954.07	321788.12	426919.72	BOC
121	79+18.14'C'	23.98' LT	953.57	321790.61	426919.60	EOP
122	79+13.92'C'	26.48' LT	953.98	321788.39	426923.96	BOC
123	79+13.18'C'	23.99' LT	953.55	321790.91	426924.55	EOP
124	79+08.69'C'	32.50' LT	953.89	321782.71	426929.56	WALK
125	79+08.68'C'	28.50' LT	953.61	321786.70	426929.32	WALK

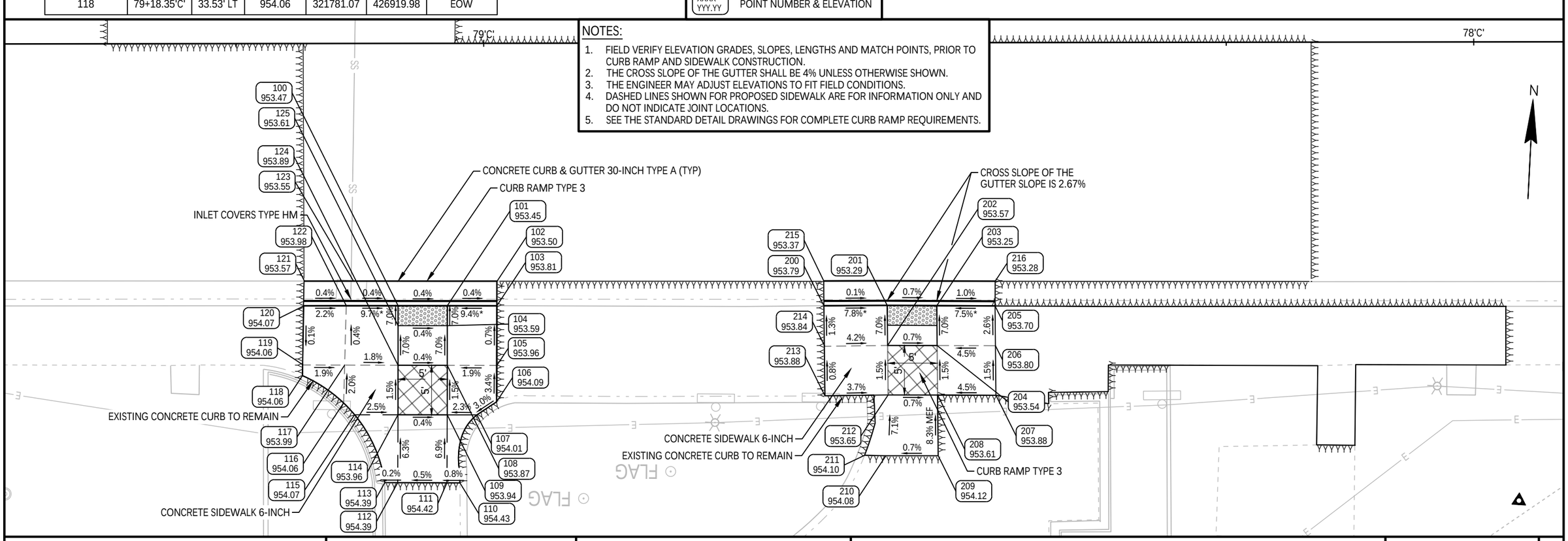
LEGEND:

- SAWING CONCRETE
- X.XX% — FLOWLINE/CONCRETE SLOPE
- X.XX%* — FLARE SLOPE
- DETECTABLE WARNING FIELD
- LANDING AREA
- (G) — 6:1 GRADED FLARE
- (C) — 10:1 CONCRETE FLARE
- (PED) — CONCRETE CURB PEDESTRIAN
- (STEP) — CONCRETE STEP
- (MEF) — MAXIMUM EXTENT FEASIBLE
- (XXXX YYY.YY) — POINT NUMBER & ELEVATION

CURB RAMP EAST ENTRANCE						
POINT NUMBER	STATION	OFFSET	ELEVATION	NORTHING	EASTING	DESCRIPTION
200	78+65.68'C'	26.54' LT	953.79	321791.35	426972.12	BOC
201	78+59.27'C'	26.53' LT	953.29	321791.76	426978.51	BOC
202	78+59.24'C'	30.57' LT	953.57	321787.73	426978.79	WALK
203	78+54.27'C'	26.56' LT	953.25	321792.05	426983.50	BOC
204	78+54.24'C'	30.58' LT	953.54	321788.03	426983.78	WALK
205	78+48.38'C'	26.59' LT	953.70	321792.38	426989.38	BOC
206	78+48.35'C'	30.60' LT	953.80	321788.38	426989.66	EOW
207	78+48.31'C'	35.62' LT	953.88	321783.38	426990.02	EOW
208	78+54.20'C'	35.58' LT	953.61	321783.04	426984.14	EOW
209	78+54.15'C'	41.71' LT	954.12	321776.93	426984.58	EOW
210	78+59.43'C'	41.70' LT	954.08	321776.61	426979.30	EOW
211	78+61.58'C'	41.66' LT	954.10	321776.52	426977.15	EOW
212	78+59.20'C'	35.57' LT	953.65	321782.75	426979.15	WALK
213	78+65.58'C'	35.64' LT	953.88	321782.27	426972.78	EOW
214	78+65.60'C'	30.62' LT	953.84	321787.28	426972.45	EOW
215	78+65.68'C'	24.04' LT	953.37	321793.85	426971.95	EOP
216	78+48.37'C'	24.09' LT	953.28	321794.88	426989.24	EOP

NOTES:

1. FIELD VERIFY ELEVATION GRADES, SLOPES, LENGTHS AND MATCH POINTS, PRIOR TO CURB RAMP AND SIDEWALK CONSTRUCTION.
2. THE CROSS SLOPE OF THE GUTTER SHALL BE 4% UNLESS OTHERWISE SHOWN.
3. THE ENGINEER MAY ADJUST ELEVATIONS TO FIT FIELD CONDITIONS.
4. DASHED LINES SHOWN FOR PROPOSED SIDEWALK ARE FOR INFORMATION ONLY AND DO NOT INDICATE JOINT LOCATIONS.
5. SEE THE STANDARD DETAIL DRAWINGS FOR COMPLETE CURB RAMP REQUIREMENTS.



PROJECT NO: 1166-04-85	HWY: IH 39	COUNTY: MARQUETTE	CURB RAMP DETAILS - REST AREA 81	SHEET 34	E

FILE NAME : G:\00\00093\00093777\CADD\SHEETSPLAN\023101-CR.DWG
LAYOUT NAME - 023101-cr

PLOT DATE : 6/29/2025 8:21 AM PLOT BY : SHAWN DOLENS PLOT NAME : PLOT SCALE : 1 IN:10 FT

MID-BLOCK CURB RAMPS						
POINT NUMBER	STATION	OFFSET	ELEVATION	NORTHING	EASTING	DESCRIPTION
300	78+60.15'C'	37.47' RT	951.25	321855.58	426973.62	BOC
301	78+55.15'C'	37.48' RT	951.22	321855.90	426978.61	BOC
302	78+55.14'C'	31.47' RT	951.64	321849.91	426979.00	WALK
303	78+47.41'C'	39.98' RT	951.23	321858.88	426986.18	EOP
304	78+55.13'C'	26.70' RT	951.97	321845.14	426979.31	WALK
305	78+47.41'C'	37.48' RT	951.65	321856.39	426986.34	BOC
306	78+47.59'C'	31.48' RT	951.72	321850.39	426986.53	EOW
307	78+47.68'C'	26.81' RT	951.98	321845.72	426986.74	EOW
308	78+47.74'C'	21.65' RT	952.26	321840.56	426987.00	EOW
309	78+47.75'C'	17.62' RT	952.49	321836.55	426987.24	BOC
310	78+47.78'C'	15.12' RT	952.07	321834.05	426987.36	EOP
311	78+55.12'C'	21.70' RT	952.05	321840.15	426979.63	WALK
312	78+55.11'C'	17.70' RT	952.03	321836.17	426979.89	BOC
313	78+60.12'C'	21.69' RT	951.99	321839.83	426974.64	WALK
314	78+60.11'C'	17.69' RT	952.06	321835.84	426974.90	BOC
315	78+67.71'C'	15.24' RT	952.17	321832.92	426967.46	EOP
316	78+67.70'C'	17.74' RT	952.59	321835.41	426967.32	BOC
317	78+67.70'C'	21.65' RT	952.36	321839.31	426967.08	EOW

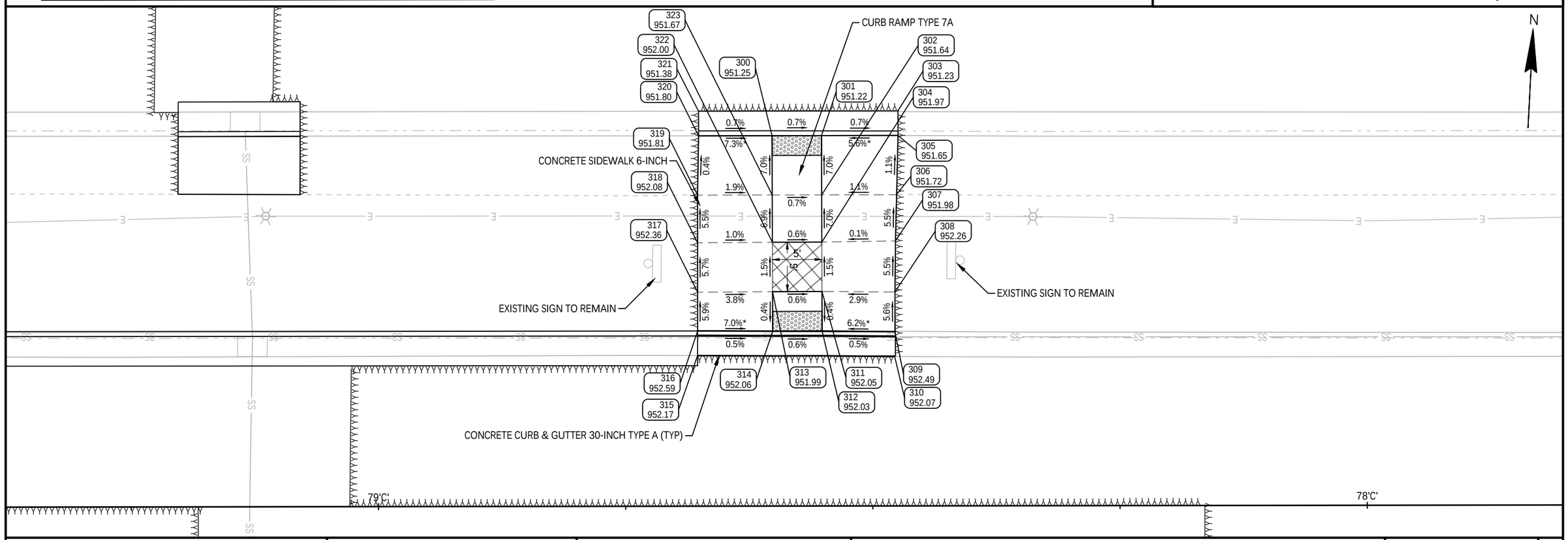
MID-BLOCK CURB RAMPS						
POINT NUMBER	STATION	OFFSET	ELEVATION	NORTHING	EASTING	DESCRIPTION
318	78+67.69'C'	26.65' RT	952.08	321844.31	426966.77	EOW
319	78+67.69'C'	31.47' RT	951.81	321849.12	426966.47	EOW
320	78+67.58'C'	37.47' RT	951.80	321855.11	426966.20	BOC
321	78+67.58'C'	39.97' RT	951.38	321857.61	426966.05	EOP
322	78+60.13'C'	26.69' RT	952.00	321844.82	426974.32	WALK
323	78+60.14'C'	31.47' RT	951.67	321849.60	426974.01	EOP

LEGEND:

- SAWING CONCRETE
- X.XX% FLOWLINE/CONCRETE SLOPE
- X.XX%* FLARE SLOPE
- DETECTABLE WARNING FIELD
- LANDING AREA
- (G) 6:1 GRADED FLARE
- (C) 10:1 CONCRETE FLARE
- (PED) CONCRETE CURB PEDESTRIAN
- (STEP) CONCRETE STEP
- (MEF) MAXIMUM EXTENT FEASIBLE
- (XXXX YYY.YY) POINT NUMBER & ELEVATION

NOTES:

1. FIELD VERIFY ELEVATION GRADES, SLOPES, LENGTHS AND MATCH POINTS, PRIOR TO CURB RAMP AND SIDEWALK CONSTRUCTION.
2. THE CROSS SLOPE OF THE GUTTER SHALL BE 4% UNLESS OTHERWISE SHOWN.
3. THE ENGINEER MAY ADJUST ELEVATIONS TO FIT FIELD CONDITIONS.
4. DASHED LINES SHOWN FOR PROPOSED SIDEWALK ARE FOR INFORMATION ONLY AND DO NOT INDICATE JOINT LOCATIONS.
5. SEE THE STANDARD DETAIL DRAWINGS FOR COMPLETE CURB RAMP REQUIREMENTS.



PROJECT NO: 1166-04-85	HWY: IH 39	COUNTY: MARQUETTE	CURB RAMP DETAILS - REST AREA 81	SHEET 35	E

FILE NAME : G:\00\00093\00093777\CADD\SHEETSPLAN\023101-CR.DWG
LAYOUT NAME - 023102-cr

PLOT DATE : 6/29/2025 8:21 AM PLOT BY : SHAWN DOLENS PLOT NAME : PLOT SCALE : 1 IN:10 FT

SB OFF RAMP						
POINT NUMBER	STATION	OFFSET	ELEVATION	NORTHING	EASTING	DESCRIPTION
1	431+69.73'LC'	20.55' LT	857.33	288572.26	431049.70	EOP
2	431+51.76'LC'	24.20' LT	857.52	288556.39	431040.52	EOP
3	431+61.88'LC'	75.68' LT	--	288582.36	430994.93	53' RAD PT
4	431+26.49'LC'	36.98' LT	857.67	288536.50	431020.37	EOP
5	431+11.51'LC'	61.01' LT	857.68	288529.94	430992.82	EOP
6	431+71.69'LC'	0.01' LT	857.59	288567.60	431069.79	EOP
7	431+71.69'LC'	4.84' LT	857.52	288569.13	431065.22	EOP
8	431+65.71'LC'	2.97' LT	858.13	288562.87	431065.09	4' RAD PT
9	431+47.28'LC'	9.81' LT	857.72	288547.57	431052.74	EOP
10	431+22.86'LC'	14.78' LT	857.92	288526.00	431040.27	EOP
11	431+28.18'LC'	9.60' LT	858.44	288529.40	431046.87	5' RAD PT
12	431+24.59'LC'	7.39' LT	857.97	288525.29	431047.83	EOP
13	431+29.50'LC'	4.00' LT	858.48	288528.86	431052.60	5' RAD PT
14	431+26.32'LC'	0.00'	858.00	288524.58	431055.38	EOP
15	431+50.00'LC'	0.00'	857.74	288547.03	431062.91	EOP

CTH E WB						
POINT NUMBER	STATION	OFFSET	ELEVATION	NORTHING	EASTING	DESCRIPTION
50	216+55.04'WB'	0.00'	858.12	288505.36	430990.42	EOP
51	216+37.77'WB'	350.81' RT	0.00	288157.89	430939.10	351' RAD PT
52	216+87.94'WB'	3.29' RT	858.40	288498.99	431022.87	EOP
53	217+19.15'WB'	9.35'	--	288490.02	431053.37	EOP
54	217+88.70'WB'	10.00' RT	859.07	288482.83	431122.54	EOP
55	218+76.78'WB'	10.00' RT	859.71	288474.54	431210.23	EOP
56	218+75.00'WB'	27.00' LT	859.10	288511.54	431211.95	EOP
57	219+25.00'WB'	27.00' LT	859.51	288506.84	431261.72	EOP
58	219+53.67'WB'	0.00' RT	860.30	288477.26	431287.72	EOP
59	219+75.00'WB'	27.00' LT	859.96	288502.19	431311.44	EOP
60	220+00.00'WB'	0.00'	860.73	288473.01	431333.86	EOP
61	220+25.00'WB'	27.00' LT	860.43	288497.61	431361.23	EOP
62	216+71.82'WB'	28.41' LT	857.77	288532.06	431009.80	HIGH POINT

SB ON RAMP						
POINT NUMBER	STATION	OFFSET	ELEVATION	NORTHING	EASTING	DESCRIPTION
16	430+85.22'LD'	49.29' LT	857.86	288460.23	430999.42	EOP
17	430+62.76'LD'	19.03' LT	857.85	288442.98	431032.92	EOP
18	430+27.97'LD'	68.31' LT	--	288400.66	430989.94	60' RAD PT
19	430+26.73'LD'	8.00' LT	857.62	288409.22	431049.65	EOP
20	430+10.32'LD'	7.07' LT	857.54	288393.18	431053.23	EOP
21	430+45.34'LD'	20.51' RT	858.01	288432.21	431074.76	EOP
22	430+41.56'LD'	38.21' RT	--	288431.35	431092.84	18' RAD PT
23	430+56.50'LD'	28.00' RT	858.09	288444.44	431080.34	EOP
24	430+59.42'LD'	41.09' RT	858.17	288449.45	431092.79	EOP

CTH E EB						
POINT NUMBER	STATION	OFFSET	ELEVATION	NORTHING	EASTING	DESCRIPTION
25	116+67.29'EB'	0.00' LT	858.21	288484.24	431001.71	EOP
26	117+18.17'EB'	0.00'	858.52	288479.41	431052.36	EOP
27	117+19.66'EB'	5.38' LT	--	288484.64	431054.32	5' RAD PT
28	117+23.42'EB'	5.72' LT	858.60	288484.64	431058.10	EOP
29	117+81.33'EB'	4.86' LT	858.96	288478.66	431115.71	EOP
30	117+86.15'EB'	4.82' LT	--	288478.19	431120.50	5' RAD PT
31	117+86.27'EB'	0.01' LT	858.93	288473.39	431120.19	EOP
32	118+99.87'EB'	0.00'	859.74	288462.59	431233.28	EOP
33	119+25.00'EB'	27.00' RT	859.41	288433.33	431255.74	EOP
34	119+75.00'EB'	27.00' RT	859.89	288428.58	431305.51	EOP
35	120+00.00'EB'	0.00'	860.69	288453.08	431332.96	EOP
36	120+25.00'EB'	27.00' RT	860.42	288423.83	431355.28	EOP
37	116+86.52'EB'	28.56' RT	857.96	288453.98	431018.15	HIGH POINT

LEGEND:

- XXXX — SAWING ASPHALT
- ΔΔΔΔ — SAWING CONCRETE
- XXXX / YYY.YY — POINT NUMBER & ELEVATION

NOTES:

1. RADIUS DIMENSIONS ARE TO EDGE OF PAVEMENT.

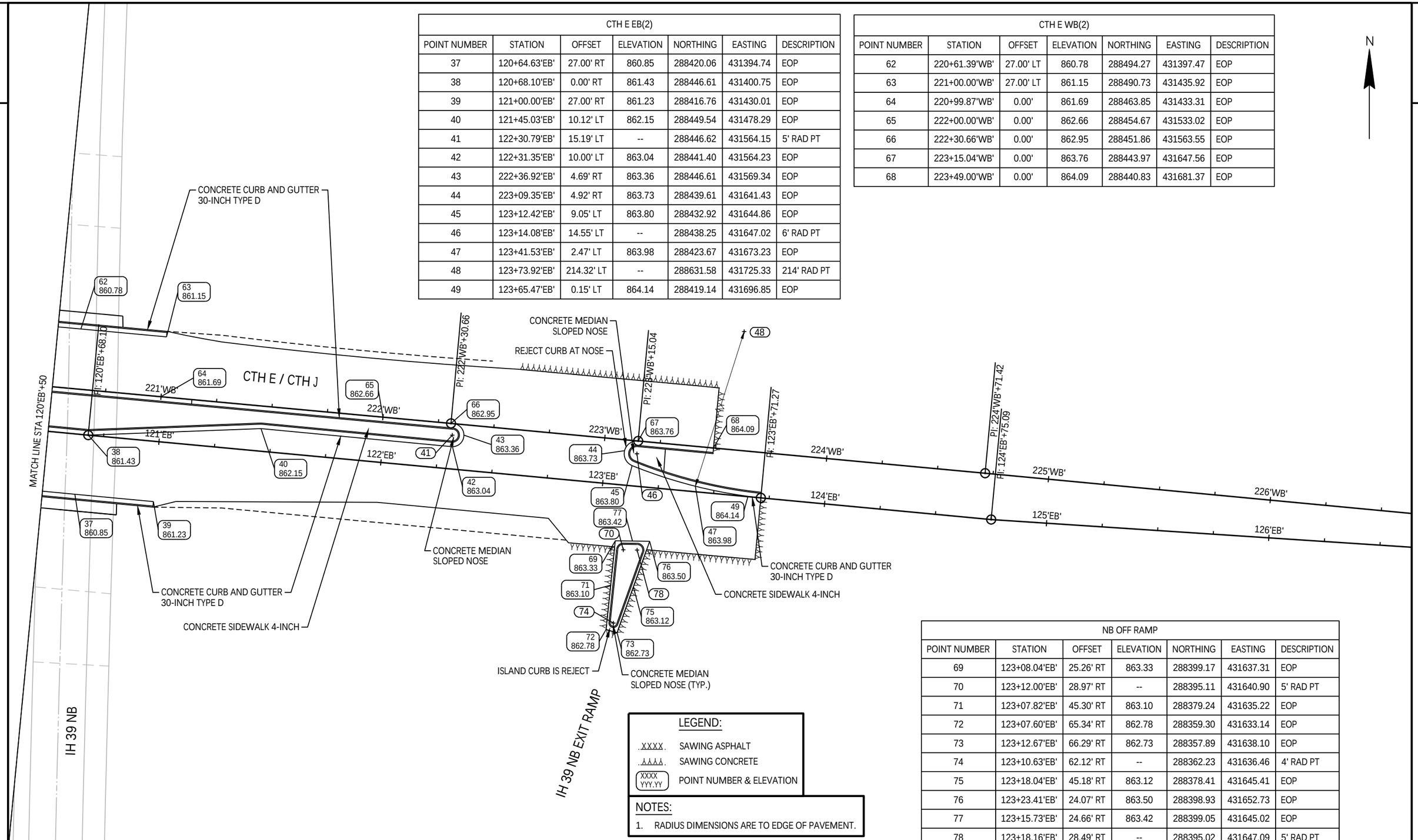
PROJECT NO: 1166-04-85	HWY: IH 39	COUNTY: MARQUETTE	INTERSECTION DETAILS	SHEET 36	E

FILE NAME : G:\00\00093\00093777\CADD\SHEETSPLAN\021101-ID.DWG
LAYOUT NAME - 021101-id
PLOT DATE : 5/5/2026 7:06 AM PLOT BY : SHAWN DOLENS PLOT NAME : PLOT SCALE : 1 IN:40 FT

2

CTH E EB(2)						
POINT NUMBER	STATION	OFFSET	ELEVATION	NORTHING	EASTING	DESCRIPTION
37	120+64.63'EB'	27.00' RT	860.85	288420.06	431394.74	EOP
38	120+68.10'EB'	0.00' RT	861.43	288446.61	431400.75	EOP
39	121+00.00'EB'	27.00' RT	861.23	288416.76	431430.01	EOP
40	121+45.03'EB'	10.12' LT	862.15	288449.54	431478.29	EOP
41	122+30.79'EB'	15.19' LT	--	288446.62	431564.15	5' RAD PT
42	122+31.35'EB'	10.00' LT	863.04	288441.40	431564.23	EOP
43	222+36.92'EB'	4.69' RT	863.36	288446.61	431569.34	EOP
44	223+09.35'EB'	4.92' RT	863.73	288439.61	431641.43	EOP
45	123+12.42'EB'	9.05' LT	863.80	288432.92	431644.86	EOP
46	123+14.08'EB'	14.55' LT	--	288438.25	431647.02	6' RAD PT
47	123+41.53'EB'	2.47' LT	863.98	288423.67	431673.23	EOP
48	123+73.92'EB'	214.32' LT	--	288631.58	431725.33	214' RAD PT
49	123+65.47'EB'	0.15' LT	864.14	288419.14	431696.85	EOP

CTH E WB(2)						
POINT NUMBER	STATION	OFFSET	ELEVATION	NORTHING	EASTING	DESCRIPTION
62	220+61.39'WB'	27.00' LT	860.78	288494.27	431397.47	EOP
63	221+00.00'WB'	27.00' LT	861.15	288490.73	431435.92	EOP
64	220+99.87'WB'	0.00'	861.69	288463.85	431433.31	EOP
65	222+00.00'WB'	0.00'	862.66	288454.67	431533.02	EOP
66	222+30.66'WB'	0.00'	862.95	288451.86	431563.55	EOP
67	223+15.04'WB'	0.00'	863.76	288443.97	431647.56	EOP
68	223+49.00'WB'	0.00'	864.09	288440.83	431681.37	EOP



NB OFF RAMP						
POINT NUMBER	STATION	OFFSET	ELEVATION	NORTHING	EASTING	DESCRIPTION
69	123+08.04'EB'	25.26' RT	863.33	288399.17	431637.31	EOP
70	123+12.00'EB'	28.97' RT	--	288395.11	431640.90	5' RAD PT
71	123+07.82'EB'	45.30' RT	863.10	288379.24	431635.22	EOP
72	123+07.60'EB'	65.34' RT	862.78	288359.30	431633.14	EOP
73	123+12.67'EB'	66.29' RT	862.73	288357.89	431638.10	EOP
74	123+10.63'EB'	62.12' RT	--	288362.23	431636.46	4' RAD PT
75	123+18.04'EB'	45.18' RT	863.12	288378.41	431645.41	EOP
76	123+23.41'EB'	24.07' RT	863.50	288398.93	431652.73	EOP
77	123+15.73'EB'	24.66' RT	863.42	288399.05	431645.02	EOP
78	123+18.16'EB'	28.49' RT	--	288395.02	431647.09	5' RAD PT

LEGEND:

- XXXX — SAWING ASPHALT
- XXXX — SAWING CONCRETE
- XXXX / YYY.YY — POINT NUMBER & ELEVATION

NOTES:

1. RADIUS DIMENSIONS ARE TO EDGE OF PAVEMENT.

PROJECT NO: 1166-04-85	HWY: IH 39	COUNTY: MARQUETTE	INTERSECTION DETAILS	SHEET 37	E

2

N

STA 86'CT'+55.88
6.06' RT

EP: 86'CT'+55.88

950.31 950.15 950.23 950.44 950.62 950.94 950.86 951.17 950.93 951.41 951.17 951.33 951.79 951.26 951.90 951.53 951.11 950.92 950.65 950.32 950.15 951.78 951.40 951.71 951.26 951.08 950.83 951.56 950.65 951.36 951.13 950.99 950.84 950.47 950.42 950.18 950.01 950.63 950.67 950.77

STA 86'CT'+49.50
-0.22' LT

86'CT

86'C'

EXISTING CURB & GUTTER
TO REMAIN

STA 85'CT'+65.78
-18.15' LT

STA 85'CT'+46.32
-29.58' LT

STA 85'CT'+43.09
-18.39' LT

STA 85'C'+25
-10.00' LT

85'C

STA 84'C'+76.40
-5.00' LT

85'CT

84'CT

PC: 83'CT'+94.84

STA 83'CT'+46.36
15.09' RT

83'CT

949.63 949.65 949.81 949.92 949.96

STA 83'CT'+81.87
15.18' RT

STA 83'CT'+44.45
-27.45' LT

STA 83'CT'+75.20
-14.69' LT

LEGEND:

XXXX SAWING ASPHALT

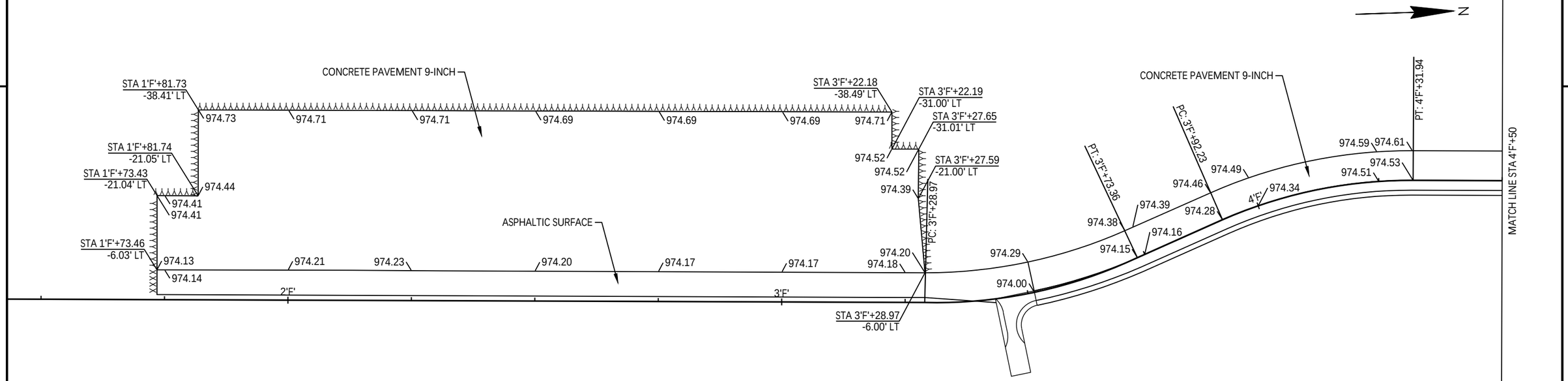
XXXX SAWING CONCRETE

PROJECT NO: 1166-04-85	HWY: IH 39	COUNTY: MARQUETTE	PAVING DETAILS - REST AREA 81	SHEET 38	E

FILE NAME : G:\00\00093\00093777\CADD\SHEETSPLAN\021401-PD.DWG
LAYOUT NAME - 021401-pd

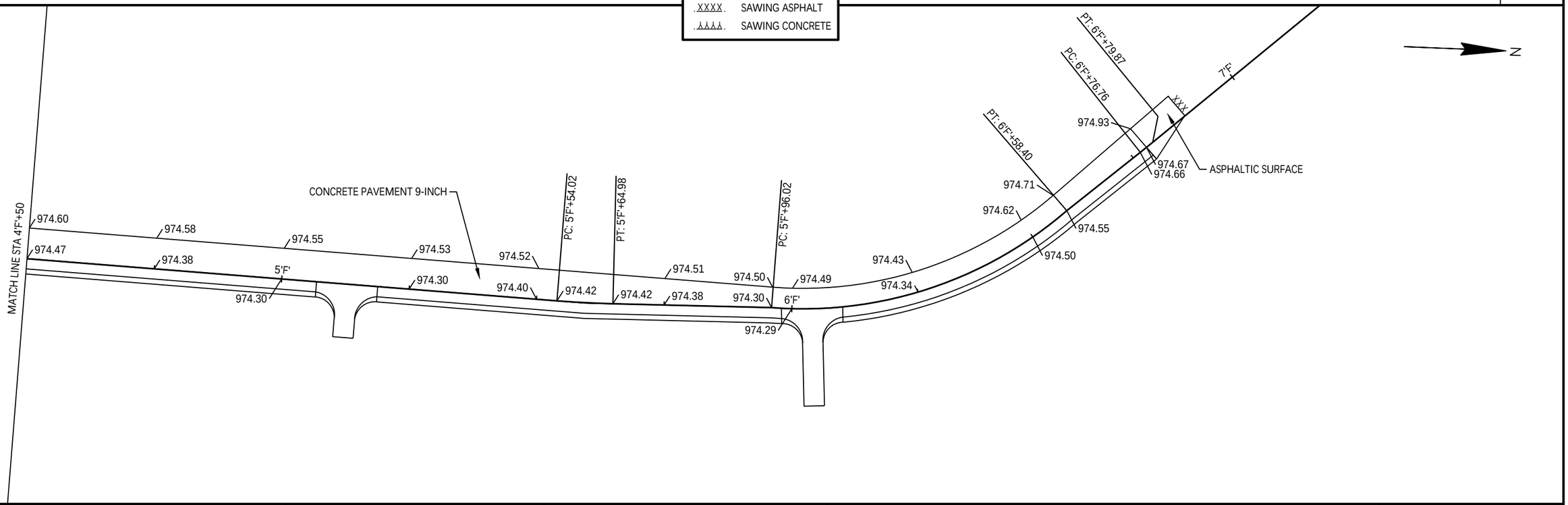
PLOT DATE : 5/2/2026 7:53 AM PLOT BY : SHAWN DOLENS PLOT NAME : PLOT SCALE : Custom

2



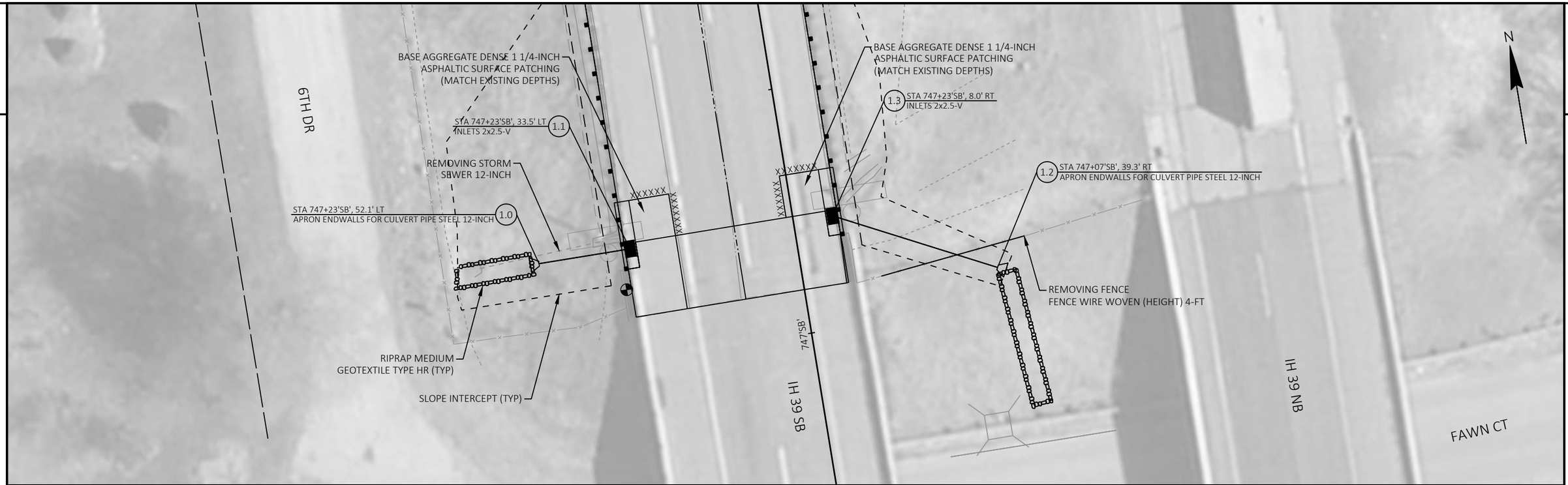
LEGEND:

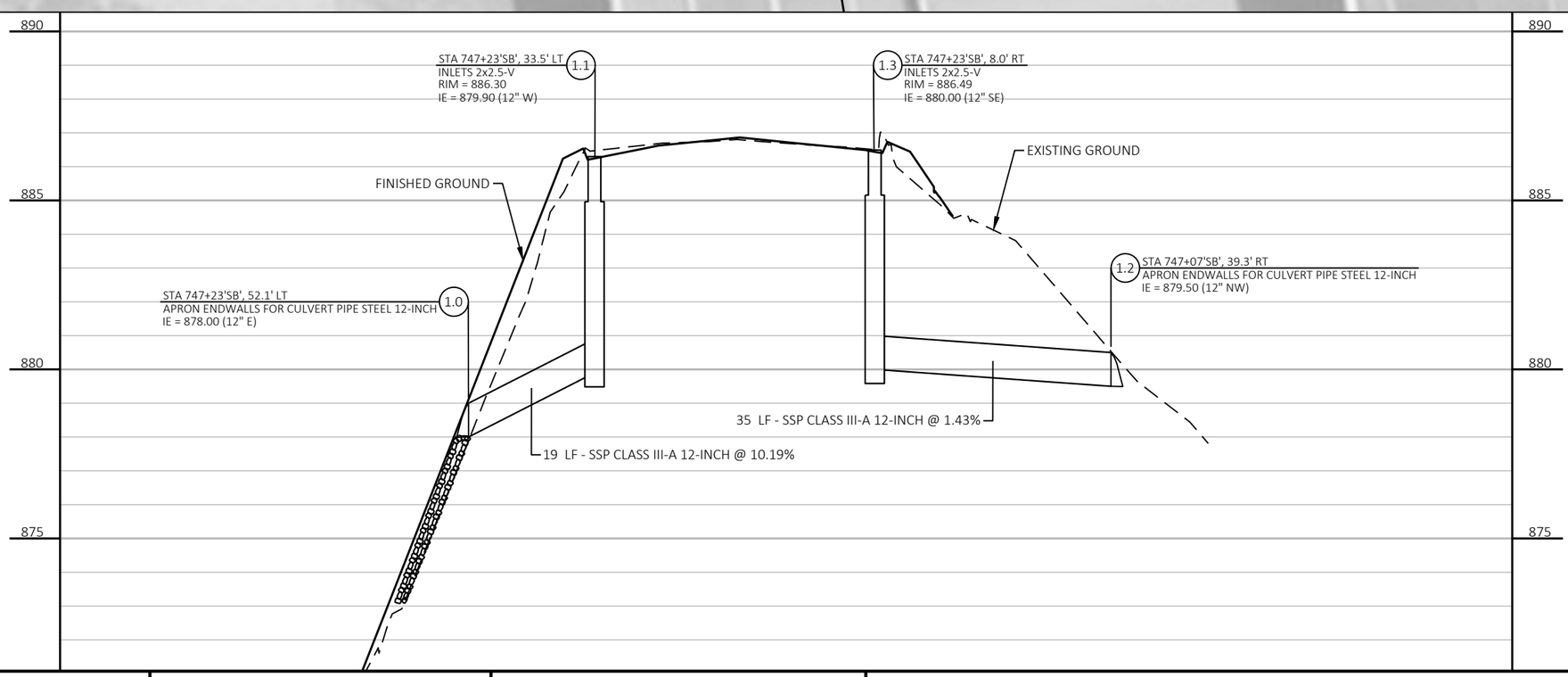
XXXX	SAWING ASPHALT
∧∧∧∧	SAWING CONCRETE



PROJECT NO: 1166-04-85	HWY: IH 39	COUNTY: MARQUETTE	PAVING DETAILS - REST AREA 82	SHEET 39	E

2

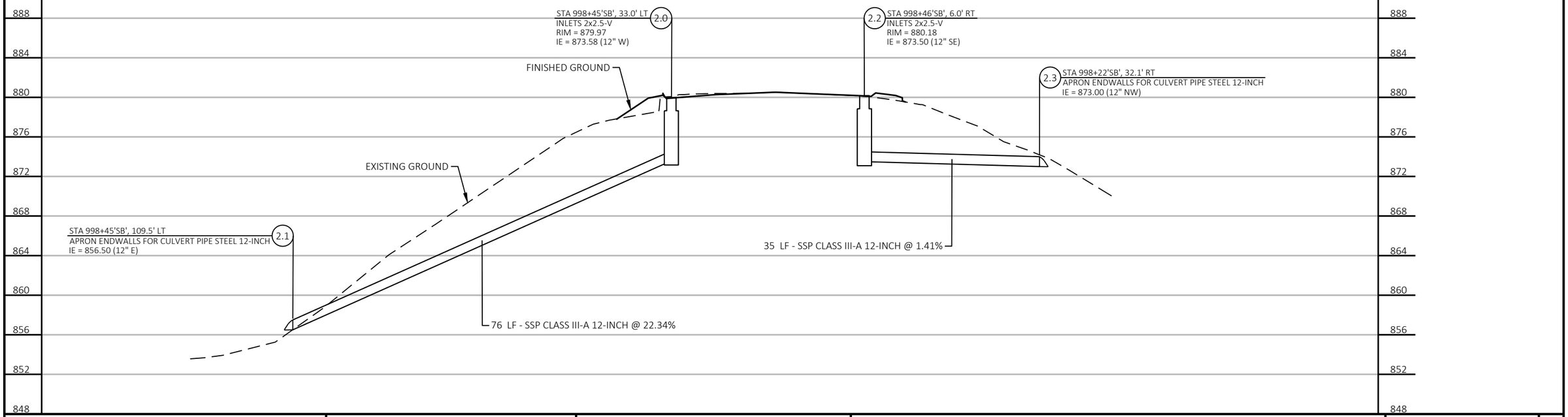




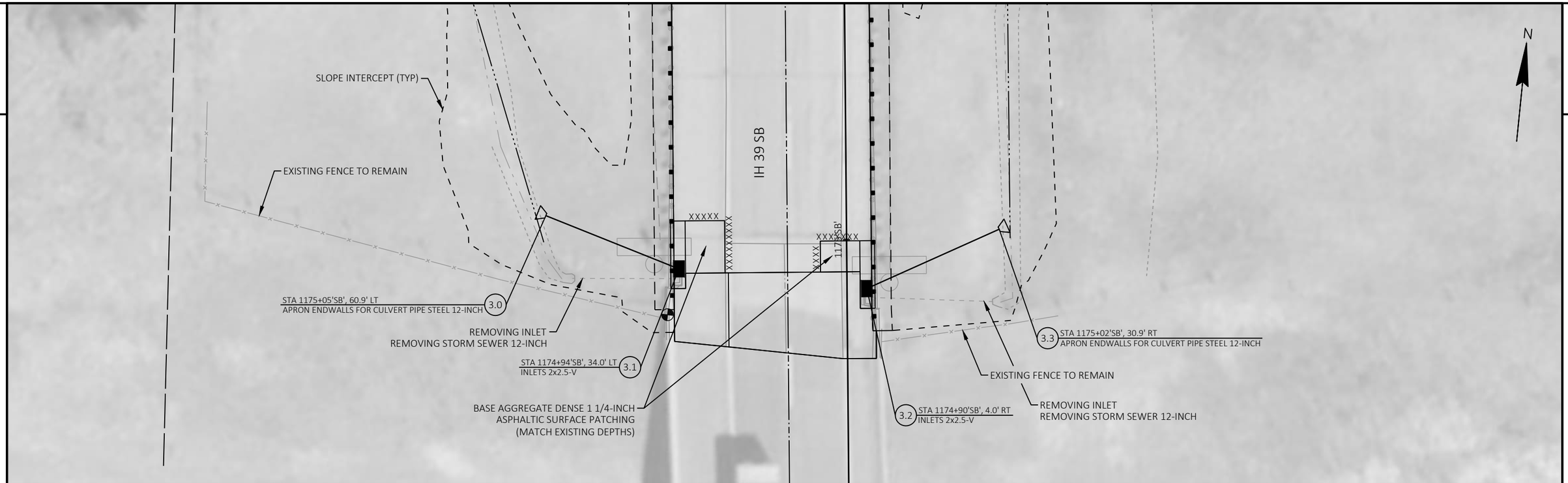
PROJECT NO: 1166-04-85	HWY: IH 39	COUNTY: MARQUETTE	STORM SEWER	SHEET 40	E

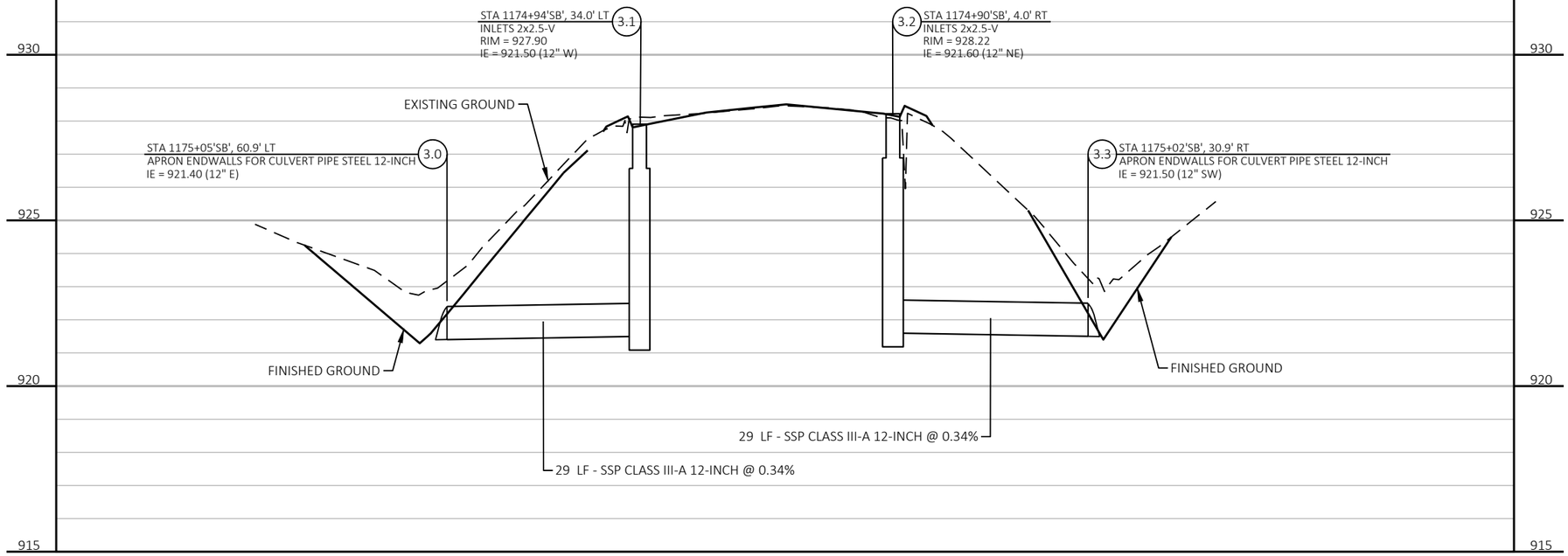
FILE NAME : G:\00\00093\00093777\CADD\SHEETSPLAN\022501-SS.DWG
LAYOUT NAME - 022501

PLOT DATE : 6/26/2025 11:47 AM PLOT BY : SHAWN DOLENS PLOT NAME : PLOT SCALE : 1 IN:20 FT



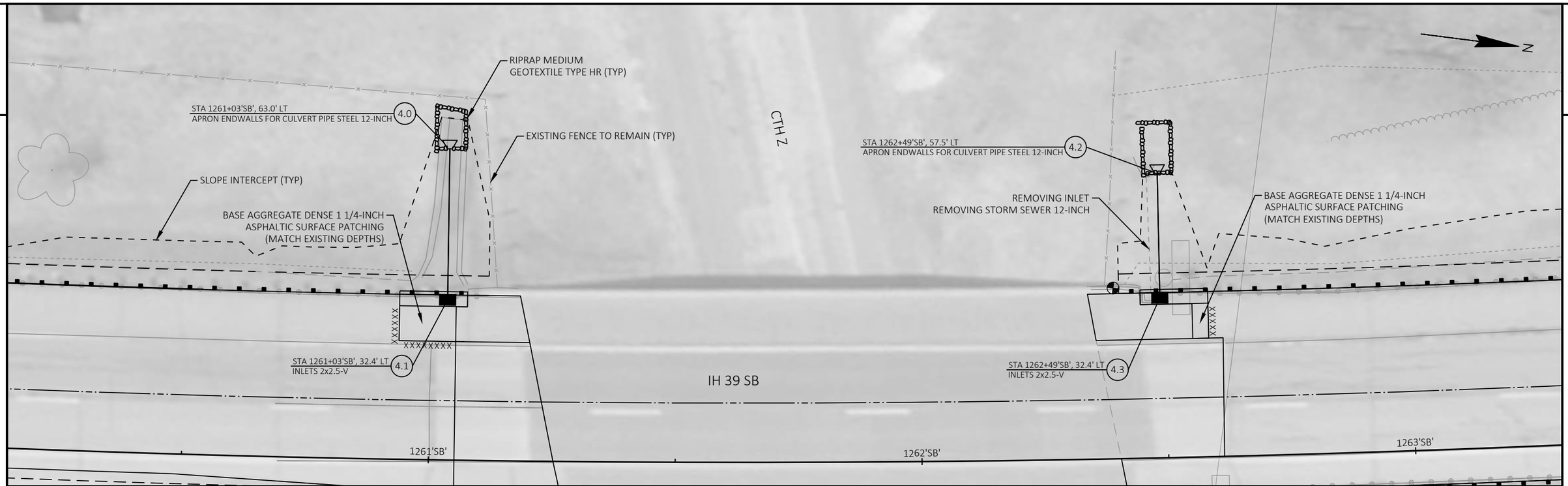
PROJECT NO: 1166-04-85	HWY: IH 39	COUNTY: MARQUETTE	STORM SEWER	SHEET 41	E

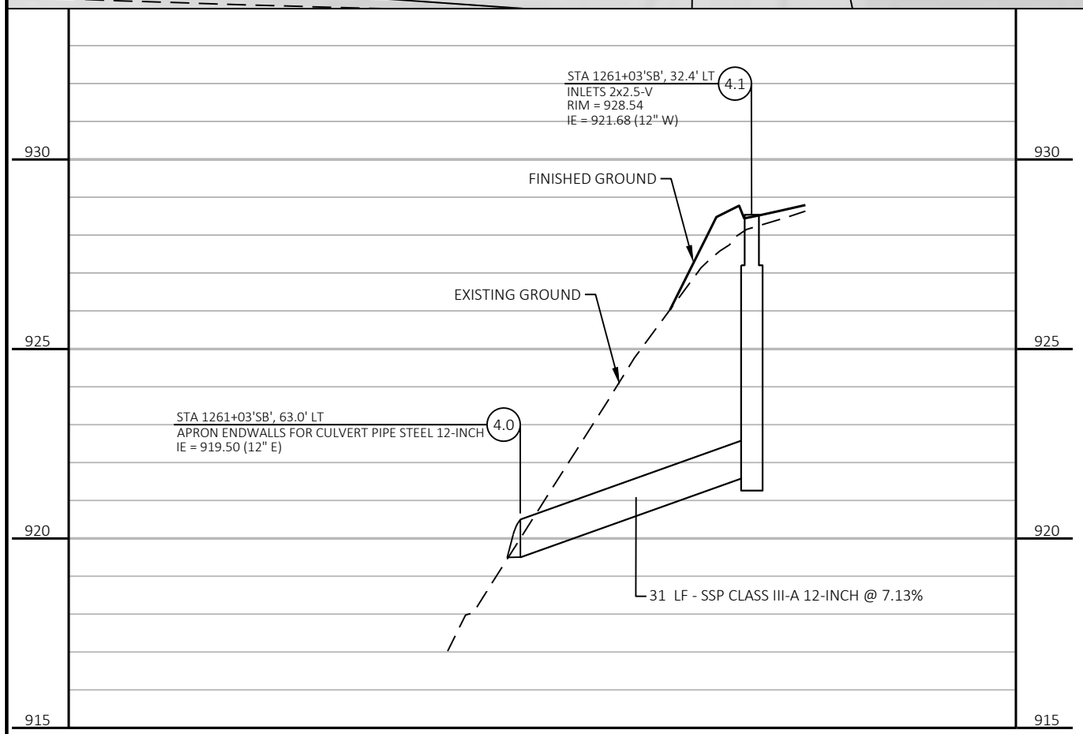


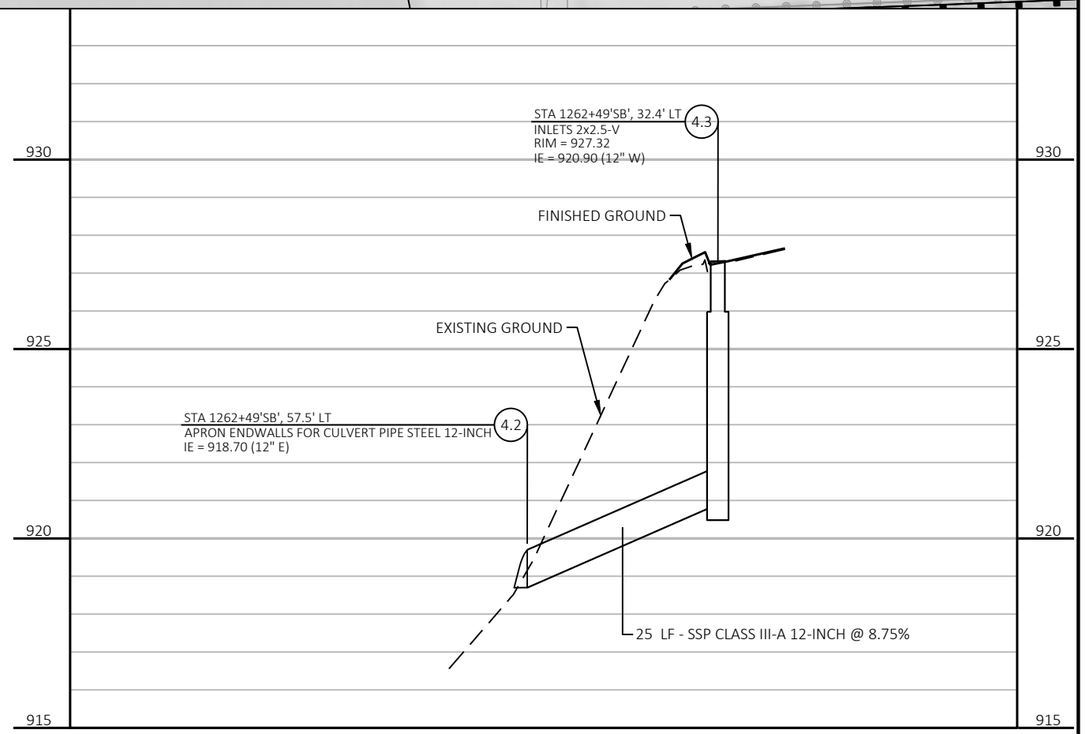


PROJECT NO: 1166-04-85	HWY: IH 39	COUNTY: MARQUETTE	STORM SEWER	SHEET 42	E

2







PROJECT NO: 1166-04-85	HWY: IH 39	COUNTY: MARQUETTE	STORM SEWER	SHEET 43	E

GENERAL NOTES:

1. REMOVE AND SALVAGE ALL EXISTING OUTDOOR LIGHT POLE ASSEMBLIES IN THEIR ENTIRETY AND DELIVER TO WISDOT NORTH CENTRAL REGION OFFICE'S WISCONSIN RAPIDS WISDOT ELECTRICAL SHOP (REFERENCE SPECIAL PROVISION "REMOVE AND SALVAGE LIGHT POLE ASSEMBLIES REST AREA 81"). COORDINATE A SECURE STAGING AREA AND SECURE STACKING METHOD FOR MATERIALS WITH WISDOT AT THE REST AREA SITE LOCATION. ELECTRICAL CONTRACTOR SHALL REMOVE LIGHTS AND ARMS FROM POLES AND SECURE SEPARATE FROM POLES. ELECTRICAL CONTRACTOR SHALL BE RESPONSIBLE TO SECURE MATERIALS FROM DAMAGE OR THEFT UNTIL OWNERSHIP HAS BEEN TRANSFERRED TO WISDOT. SHOULD ANY DAMAGE OR THEFT TAKE PLACE UNDER ELECTRICAL CONTRACTOR OWNERSHIP, CONTRACTOR SHALL MAKE WISDOT WHOLE RELATED TO VALUE OF ANY LOSS. REMOVE ALL ASSOCIATED CONCRETE POLE BASES, ASSOCIATED LIGHTING CONDUIT, WIRE, AND PULL BOXES AND DISPOSE OFF-SITE.

2. CONTRACTOR SHALL TURN OFF FEEDER TO EXISTING OUTDOOR LIGHTING CONTROL PEDESTAL CABINET AT BUILDING SOURCE PANEL AND DISCONNECT FEEDER CONDUCTORS. ELECTRICAL CONTRACTOR SHALL REMOVE FEEDER CONDUCTORS BETWEEN CABINET AND SOURCE PANEL IN BUILDING AND DISPOSE OF OFF-SITE. CONTRACTOR SHALL ALSO REMOVE ENTIRE PEDESTAL LIGHTING CONTROL CABINET AND ASSOCIATED ADJACENT ELECTRICAL ITEMS ON WOODEN POST IN ITS ENTIRETY AND DISPOSE OF OFF-SITE. THIS SHALL ALSO INCLUDE (BUT NOT LIMITED TO): REMOVING ALL ASSOCIATED BRANCH CIRCUIT CONNECTIONS AND CONDUCTORS, REMOVE ALL ASSOCIATED HAND HOLES, REMOVE ALL CONDUITS BETWEEN LIGHTS, REMOVE FEEDER CONDUIT BACK TOWARDS BUILDING AND CAP 10' PAST CONCRETE SIDEWALK OUTSIDE BUILDING, REMOVE CONCRETE LIGHTING CONTROL CABINET BASE AND DISPOSE OF ALL OFF-SITE.

3. ALL DISTURBED SURFACES SHALL BE RETURNED TO ORIGINAL CONDITION AND WILL BE PAID FOR SEPERATELY.

EXISTING STORM SEWER (DO NOT DISTURB)

EXISTING ELECTRIC UTILITY TRANSFORMER

CAUTION

EXISTING BURIED PROPANE TANK (DO NOT DISTURB)

EXISTING SANITARY SEWER (DO NOT DISTURB)

EXISTING SEPTIC SYSTEM (DO NOT DISTURB)

PT: 75'C'+48.48

PC: 82'C'+10.22

76'C' 77'C' 78'C' 79'C' 80'C' 81'C' 82'C' 83'C'

PLAN NOTES:

1. REMOVE LIGHT POLE ASSEMBLY PER GENERAL NOTES.
2. REMOVE UNDERGROUND CONDUIT, WIRE, AND PULL BOXES ASSOCIATED WITH DEMO OF LIGHTING PER GENERAL NOTES.
3. REMOVE LIGHTING CONTROL PEDESTAL AND ADJACENT POST MOUNTED ELECTRICAL PER GENERAL NOTES.
4. WELL ELECTRIC TO REMAIN IN SERVICE.
5. BUILDING ELECTRIC TO REMAIN IN SERVICE.

PROJECT NO: 1166-04-85	HWY: IH 39	COUNTY: MARQUETTE	LIGHTING PLAN - REMOVAL (R39-0081 REST AREA 81)	SHEET 44	E

FILE NAME : G:\00\00093\00093777\CADD\SHEETSPLAN\023601-LP.DWG
LAYOUT NAME - 023601-lp (demo)

PLOT DATE : 5/2/2026 8:01 AM PLOT BY : SHAWN DOLENS PLOT NAME : PLOT SCALE : 1 IN:50 FT

2

PROJECT NO: 1166-04-85	HWY: IH 39	COUNTY: MARQUETTE	LIGHTING PLAN - (R39-0081 REST AREA 81)	SHEET 45	E

FILE NAME : G:\00\00093\00093777\CADD\SHEETSPLAN\023601-LP.DWG
LAYOUT NAME - 023602-lp

PLOT DATE : 5/2/2026 8:01 AM PLOT BY : SHAWN DOLENS PLOT NAME : PLOT SCALE : 1 IN:50 FT

2

2

N

LCI - 22 - (E)
STA 78'C'+75.1, 112.5' LT
70W LED - LUW

SEPERATE HOME RUNS FOR WEST CIRCUITS C,D ROUTED THRU PB-1, B-2 AND HEADING WEST OF PB-2

5 - WIRES (CIR C,D)
2 #12 AWG COND - C
2 #12 AWG COND - D
1 #12 AWG GND

SEPERATE HOME RUNS FOR EAST CIRCUITS C,D ROUTED THRU PB-1, B-2 AND HEADING EAST OF PB-2

5 - WIRES (CIR C,D)
2 #12 AWG COND - C
2 #12 AWG COND - D
1 #12 AWG GND

EXISTING ELECTRIC SERVICE METER ON BUILDING AND BUILDING ELECTRIC SERVICE PANEL SHALL REMAIN

EXISTING ELECTRIC UTILITY TRANSFORMER PROPOSED TO REMAIN

3 - WIRES (CIR E)
2 #12 AWG COND - E
1 #12 AWG GND

LC1
STA 79'C'+37.0, 76.7' LT

3 - WIRES (CIR E)
2 #12 AWG COND - E
1 #12 AWG GND

EXISTING WELL
(DO NOT DISTURB)

5 - WIRES (CIR C,D)
2 #12 AWG COND - C
2 #12 AWG COND - D
1 #12 AWG GND

PB-2
STA 79'C'+95.5, 35.6' LT

WEST CIRCUITS HOME RUN
5 - WIRES (CIR C,D)
2 #12 AWG COND - C
2 #12 AWG COND - D
1 #12 AWG GND

BORE CONDUIT

LCI - 23 - (E)
STA 78'C'+33.8, 67.9' LT
70W LED - LUW

13 - WIRES (CIR A,B,E)
4 #12 AWG COND - A
4 #12 AWG COND - B
2 #12 AWD COND - E
3 #12 AWG GND

LCI - 21 - (E)
STA 79'C'+18.7, 68.0' LT
70W LED - LUW

BORE UNDER ROADWAYS AND SIDEWALKS WITH CONDUIT RIGID NONMETALLIC SCHEDULE 40 (2-INCH) CONDUIT SPECIAL 2-INCH (TYP)

CAUTION

LCI - 17 - (C)
STA 81'C'+25.7, 35.3' LT
70W LED - LUW

LCI - 16 - (D)
STA 80'C'+00.8, 35.2' LT
70W LED - LUW

LCI - 18 - (C)
STA 78'C'+76.7, 38.2' LT
70W LED - LUW

LCI - 20 - (C)
STA 76'C'+30.0, 35.5' LT
70W LED - LUW

LCI - 19 - (D)
STA 77'C'+53.6, 35.5' LT
70W LED - LUW

PC: 82'C'+10.22

PB-8
STA 75'C'+55.0, 13.5' LT

BORE CONDUIT

5 - WIRES (CIR C, D)
2 #12 AWG COND - C
2 #12 AWG COND - D
1 #12 AWG GND

EXISTING BURIED PROPANE TANK
(DO NOT DISTURB)

3 - WIRES (CIR C)
2 #12 AWG COND - C
1 #12 AWG GND

PB-1
STA 79'C'+43.2, 57.6' LT

PB-3
STA 79'C'+38.1 57.8' LT

EXISTING STORM SEWER
(DO NOT DISTURB)

5 - WIRES (CIR A,B)
2 #12 AWG COND - A
2 #12 AWG COND - B
1 #12 AWG GND

EAST CIRCUITS HOME RUN
5 - WIRES (CIR C,D)
2 #12 AWG COND - C
2 #12 AWG COND - D
1 #12 AWG GND

3 - WIRES (CIR C)
2 #12 AWG COND - C
1 #12 AWG GND

PB-5
STA 76'C'+41.9, 27.8' RT

BORE CONDUIT

LCI - 1 - (A,B)
STA 79'C'+35.8, 28.3' RT
LED B - 5(T) - 6

5 - WIRES (CIR A,B)
2 #12 AWG COND - A
2 #12 AWG COND - B
1 #12 AWG GND

LCI - 2 - (A,B)
STA 80'C'+60.5, 28.1' RT
LED B - 5(T) - 6

LCI - 3 - (B)
STA 81'C'+48.7, 30.3' RT
LED B - 5(T) - 6

LCI - 7 - (A,B)
STA 76'C'+60.2, 29.5' RT
LED B - 5(T) - 6

LCI - 6 - (A,B)
STA 78'C'+29.3, 29.2' RT
LED B - 5(T) - 6

5 - WIRES (CIR A,B)
2 #12 AWG COND - A
2 #12 AWG COND - B
1 #12 AWG GND

10 - WIRES (CIR A,B)
4 #12 AWG COND - A
4 #12 AWG COND - B
2 #12 AWG GND

5 - WIRES (CIR A,B)
2 #12 AWG COND - A
2 #12 AWG COND - B
1 #12 AWG GND

PB-4
STA 79'C'+29.4, 27.6' RT

5 - WIRES (CIR A,B)
2 #12 AWD COND - A
2 #12 AWG COND - B
1 #12 AWG GND

5 - WIRES (CIR A,B)
2 #12 AWG COND - A
2 #12 AWG COND - B
1 #12 AWG GND

PB-7
STA 75'C'+54.9, 23.5' RT

BORE CONDUIT

5 - WIRES (CIR A,B)
2 #12 AWG COND - A
2 #12 AWG COND - B
1 #12 AWG GND

PB-6
STA 76'C'+41.9, 65.7' RT

5 - WIRES (CIR A,B)
2 #12 AWG COND - A
2 #12 AWG COND - B
1 #12 AWG GND

LCI - 8 - (A)
STA 77'C'+40.1, 130.4' RT
LED B - 5(T) - 12

EXISTING SANITARY SEWER
(DO NOT DISTURB)

BORE CONDUIT

LCI - 10 - (A)
STA 80'C'+63.0, 169.8' RT
LED B - 5(T) - 12

MOVE "PET WALKING" SIGN
TO NEW LIGHT POLE

LCI - 9 - (B)
STA 78'C'+98.5, 169.8' RT
LED B - 5(T) - 12

5 - WIRES (CIR A,B)
2 #12 AWG COND - A
2 #12 AWG COND - B
1 #12 AWG GND

EXISTING SEPTIC SYSTEM
(DO NOT DISTURB)

MOVE "PET WALKING" SIGN
TO NEW LIGHT POLE

5 - WIRES (CIR A,B)
2 #12 AWG COND - A
2 #12 AWG COND - B
1 #12 AWG GND

5 - WIRES (CIR A,B)
2 #12 AWG COND - A
2 #12 AWG COND - B
1 #12 AWG GND

LCI - 4 - (A)
STA 82'C'+94.8, 29.6' RT
LED B - 5(T) - 12

MATCH LINE STA 75'C'+48.48

MATCH LINE STA 75'C'+50

MATCH LINE STA 83'C'+00

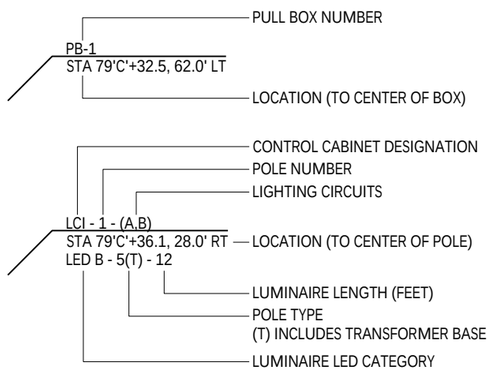
PROJECT NO: 1166-04-85	HWY: IH 39	COUNTY: MARQUETTE	LIGHTING PLAN - (R39-0081 REST AREA 81)	SHEET 46	E

2

PROJECT NO: 1166-04-85	HWY: IH 39	COUNTY: MARQUETTE	LIGHTING PLAN - (R39-0081 REST AREA 81)	SHEET 47	E

LEGEND

- SINGLE ARM LIGHTING UNIT, 30 FT POLE TYPE 5 (ALUMINUM)
  TRANSFORMER BASE, CONCRETE BASE TYPE 5
- TWIN ARM LIGHTING UNIT, 30 FT POLE TYPE 5 (ALUMINUM)
  TRANSFORMER BASE, CONCRETE BASE TYPE 5
- LIGHTING UNIT WALKWAY
  CONCRETE BASE TYPE II
- LIGHTING CONTROL CABINET 120/240 VOLT (L30)
  CONCRETE BASE L30
  METER BREAKER PEDESTAL
- PULL BOX NON-CONDUCTIVE, 24"X42"
- NON-METALLIC CONDUIT
  (SCHEDULE 40 2-INCH UNLESS OTHERWISE NOTED)
- CAPPED EMPTY CONDUIT



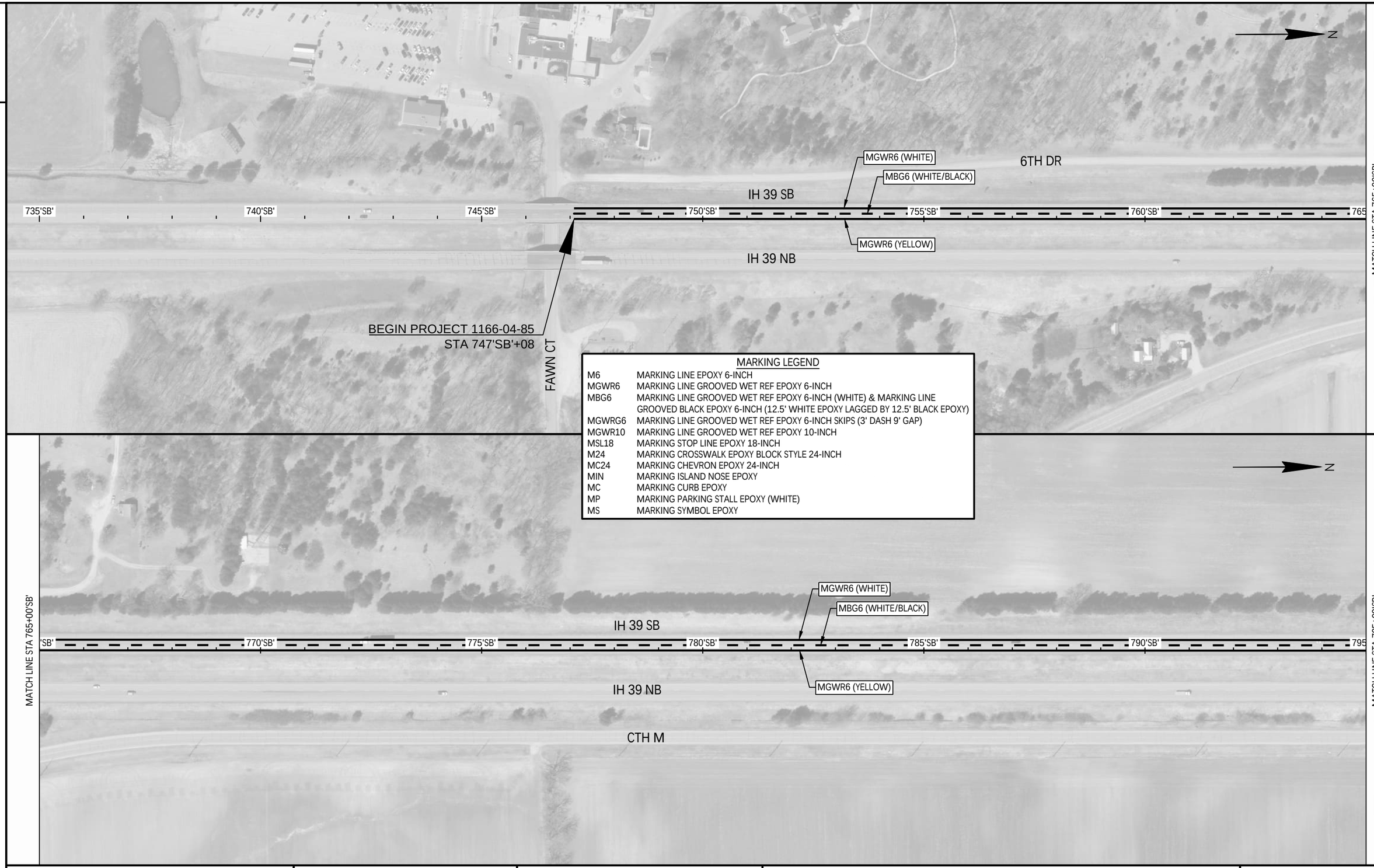
CONDUCTOR COLOR ASSIGNMENTS	
CIRCUIT 'A'	BLACK
CIRCUIT 'B'	RED
CIRCUIT 'C'	BLUE
CIRCUIT 'D'	BROWN
CIRCUIT 'E'	ORANGE
NEUTRAL	WHITE
GROUND	GREEN

GENERAL NOTES:

1. ALL LIGHTING WORK ON THIS PROJECT SHALL CONFORM TO THE LATEST APPROVED WISCONSIN DEPARTMENT OF TRANSPORTATION (WISDOT) STANDARD SPECIFICATIONS FOR HIGHWAY AND STRUCTURE CONSTRUCTION, REVISIONS, OR ADDITIONS THERETO, SPECIAL PROVISIONS, AND STANDARD DETAIL DRAWINGS.
2. THE ENTIRE ELECTRICAL INSTALLATION SHALL BE IN ACCORDANCE WITH THE LATEST NATIONAL ELECTRICAL CODE (NEC), THE NATIONAL ELECTRICAL SAFETY CODE (NESC), AND ALL LOCAL CODES AND REGULATIONS.
3. ALL MATERIAL, ELECTRICAL DEVICES AND EQUIPMENT PROVIDED BY THE CONTRACTOR SHALL BE NEW AND UNUSED, SHALL BE UL APPROVED AND LABELED UNLESS OTHERWISE SPECIFIED.
4. SUBMIT SHOP DRAWINGS/CATALOG CUT SHEETS FOR ALL LIGHTING EQUIPMENT TO THE PROJECT ENGINEER FOR APPROVAL PRIOR TO INSTALLATION.
5. PRIOR TO THE BEGINNING OF WORK, ALL LOCATIONS OF CONCRETE BASES, PULL BOXES, ELECTRICAL CONTROL EQUIPMENT, AND CONDUIT RUNS SHALL BE STAKED OUT, INSPECTED BY WISDOT NCR ELECTRICIAN (GARRETT RADKE, 715-213-2773), AND APPROVED BY THE PROJECT ENGINEER.
6. THE LOCATION OF EXISTING AND PROPOSED UTILITIES AS SHOWN ON THESE PLANS ARE APPROXIMATE. IN ADDITION, THERE MAY BE OTHER UTILITIES WITHIN THE PROJECT AREA WHICH ARE NOT SHOWN. VERIFY THE LOCATIONS OF ALL UTILITIES PRIOR TO CONSTRUCTION. CONTACT BUREAU OF HIGHWAY MAINTENANCE (JOE COUGHLIN, 608-716-1963) FOR LOCATING GAS, SANITARY SEWER, STORM SEWER AND WATER FACILITIES AT REST AREA 81.
7. A COMPLETE LIGHTING OR ELECTRICAL PLAN SHALL BE SECURELY PLACED IN THE DOCUMENT HOLDER OF THE CABINET (ATTACHED TO THE DOOR).

CONSTRUCTION NOTES:

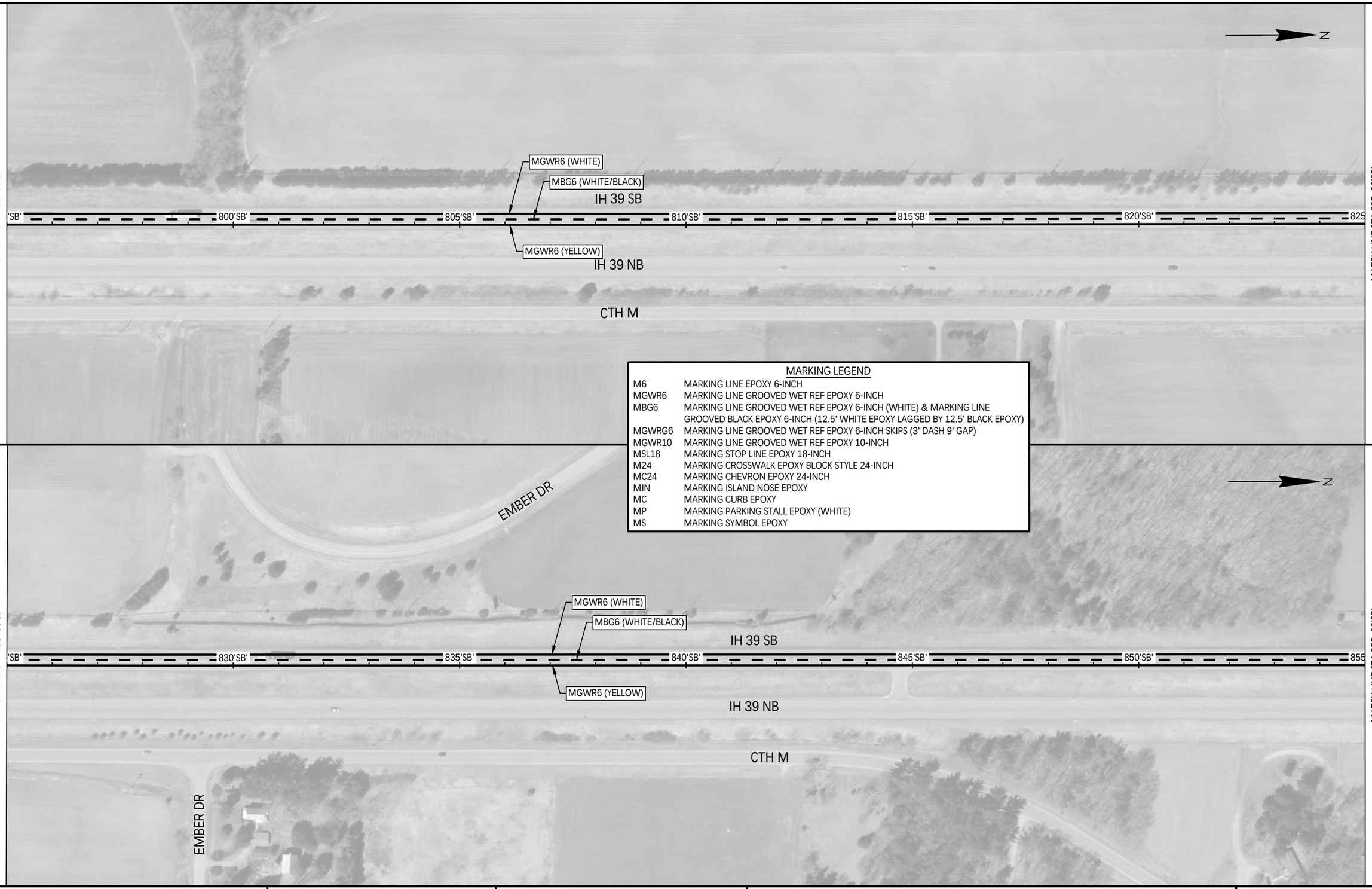
1. ALL LIGHTING UNITS SHALL BE WIRED 240V PHASE TO PHASE.
2. ALL SPLICING TO BE COMPLETED IN THE CABINET OR LIGHT BASE (NO SPLICES ALLOWED IN PULL BOXES).
3. CONTRACTOR SHALL CONTACT AND COORDINATE WITH LOCAL UTILITY TO OBTAIN NEW 100 AMP 120/240 VOLT, SINGLE PHASE, 3-WIRE UNDERGROUND ELECTRICAL SERVICE TO FEED NEW LIGHTING CABINET LCI (REFERENCE STANDARD DETAIL DRAWINGS AND CONTROL CABINET SCHEMATICS FOR LCI ASSEMBLY). VERIFY EXACT LOCATION WITH WISDOT NCR ELECTRICIAN (GARRETT RADKE, 715-213-2773) PRIOR TO PERMANENT PLACEMENT. DOOR OF CABINET SHALL OPEN TO THE SOUTH SO WORKERS CAN VIEW LIGHTING INSTALLATIONS TO THE NORTH FOR MAINTENANCE.
4. CONTACT AND COORDINATE WITH LOCAL ELECTRICAL UTILITY TO HAVE UTILITY PROVIDE UNDERGROUND SERVICE CONDUCTORS AND CONNECTIONS AT TRANSFORMER AND METER PEDESTAL ASSOCIATED WITH THE LIGHTING CONTROL CABINET LCI. COORDINATE WITH THE UTILITY, GENERAL CONTRACTOR AND BUREAU OF HIGHWAY MAINTENANCE - MAINTAINER OF THE FACILITY (JOSEPH COUGHLIN, 608-716-1963) TO SCHEDULE UTILITY OUTAGE TO ACCOMMODATE UTILITY WORK WHICH AFFORDS THE LEAST DISRUPTION TO THE EXISTING REST AREA BUILDING FACILITY. MINIMUM NOTICE FOR ANY OUTAGE SHALL BE 2 WEEKS IN ADVANCE. NO OUTAGE WORK SHALL COMMENCE WITHOUT WRITTEN CONSENT/APPROVAL OF WISDOT.



MARKING LEGEND

M6	MARKING LINE EPOXY 6-INCH
MGWR6	MARKING LINE GROOVED WET REF EPOXY 6-INCH
MBG6	MARKING LINE GROOVED WET REF EPOXY 6-INCH (WHITE) & MARKING LINE GROOVED BLACK EPOXY 6-INCH (12.5' WHITE EPOXY LAGGED BY 12.5' BLACK EPOXY)
MGWRG6	MARKING LINE GROOVED WET REF EPOXY 6-INCH SKIPS (3' DASH 9' GAP)
MGWR10	MARKING LINE GROOVED WET REF EPOXY 10-INCH
MSL18	MARKING STOP LINE EPOXY 18-INCH
M24	MARKING CROSSWALK EPOXY BLOCK STYLE 24-INCH
MC24	MARKING CHEVRON EPOXY 24-INCH
MIN	MARKING ISLAND NOSE EPOXY
MC	MARKING CURB EPOXY
MP	MARKING PARKING STALL EPOXY (WHITE)
MS	MARKING SYMBOL EPOXY

2



MARKING LEGEND

M6	MARKING LINE EPOXY 6-INCH
MGWR6	MARKING LINE GROOVED WET REF EPOXY 6-INCH
MBG6	MARKING LINE GROOVED WET REF EPOXY 6-INCH (WHITE) & MARKING LINE GROOVED BLACK EPOXY 6-INCH (12.5' WHITE EPOXY LAGGED BY 12.5' BLACK EPOXY)
MGWRG6	MARKING LINE GROOVED WET REF EPOXY 6-INCH SKIPS (3' DASH 9' GAP)
MGWR10	MARKING LINE GROOVED WET REF EPOXY 10-INCH
MSL18	MARKING STOP LINE EPOXY 18-INCH
M24	MARKING CROSSWALK EPOXY BLOCK STYLE 24-INCH
MC24	MARKING CHEVRON EPOXY 24-INCH
MIN	MARKING ISLAND NOSE EPOXY
MC	MARKING CURB EPOXY
MP	MARKING PARKING STALL EPOXY (WHITE)
MS	MARKING SYMBOL EPOXY

2

PROJECT NO: 1166-04-85	HWY: IH 39	COUNTY: MARQUETTE	PAVEMENT MARKING	SHEET 50	E

FILE NAME : G:\00\00093\00093777\CADD\SHEETSPLAN\024501-PM.DWG
LAYOUT NAME - 024502-pm

PLOT DATE : 5/1/2026 1:35 PM PLOT BY : SHAWN DOLENS PLOT NAME : PLOT SCALE : 1 IN:200 FT

2

MATCH LINE STA 855+00'SB'

CTH M / ELK RD

N

MGWR6 (WHITE)

MBG6 (WHITE/BLACK)

IH 39 SB

'SB' 860'SB' 865'SB' 870'SB' 875'SB' 880'SB' 885

MGWR6 (YELLOW)

IH 39 NB

UNNAMED TRIBUTARY TO KLAWITTER CREEK

MARKING LEGEND

M6	MARKING LINE EPOXY 6-INCH
MGWR6	MARKING LINE GROOVED WET REF EPOXY 6-INCH
MBG6	MARKING LINE GROOVED WET REF EPOXY 6-INCH (WHITE) & MARKING LINE GROOVED BLACK EPOXY 6-INCH (12.5' WHITE EPOXY LAGGED BY 12.5' BLACK EPOXY)
MGWRG6	MARKING LINE GROOVED WET REF EPOXY 6-INCH SKIPS (3' DASH 9' GAP)
MGWR10	MARKING LINE GROOVED WET REF EPOXY 10-INCH
MSL18	MARKING STOP LINE EPOXY 18-INCH
M24	MARKING CROSSWALK EPOXY BLOCK STYLE 24-INCH
MC24	MARKING CHEVRON EPOXY 24-INCH
MIN	MARKING ISLAND NOSE EPOXY
MC	MARKING CURB EPOXY
MP	MARKING PARKING STALL EPOXY (WHITE)
MS	MARKING SYMBOL EPOXY

MATCH LINE STA 885+00'SB'

N

MGWR6 (WHITE)

MBG6 (WHITE/BLACK)

IH 39 SB

'SB' 890'SB' 895'SB' 900'SB' 905'SB' 910'SB' 915

MGWR6 (YELLOW)

IH 39 NB

KLAWITTER CREEK

MATCH LINE STA 915+00'SB'

2

PROJECT NO: 1166-04-85	HWY: IH 39	COUNTY: MARQUETTE	PAVEMENT MARKING	SHEET 51	E

FILE NAME : G:\00\00093\00093777\CADD\SHEETSPLAN\024501-PM.DWG
LAYOUT NAME - 024503-pm

PLOT DATE : 5/1/2026 1:35 PM PLOT BY : SHAWN DOLENS PLOT NAME : PLOT SCALE : 1 IN:200 FT

2

MATCH LINE STA 915+00'SB'

N

MGWR6 (WHITE)

MBG6 (WHITE/BLACK)

IH 39 SB

'SB' 920'SB' 925'SB' 930'SB' 935'SB' 940'SB' 945

MGWR6 (YELLOW)

IH 39 NB

MATCH LINE STA 945+00'SB'

2

MARKING LEGEND

M6	MARKING LINE EPOXY 6-INCH
MGWR6	MARKING LINE GROOVED WET REF EPOXY 6-INCH
MBG6	MARKING LINE GROOVED WET REF EPOXY 6-INCH (WHITE) & MARKING LINE GROOVED BLACK EPOXY 6-INCH (12.5' WHITE EPOXY LAGGED BY 12.5' BLACK EPOXY)
MGWRG6	MARKING LINE GROOVED WET REF EPOXY 6-INCH SKIPS (3' DASH 9' GAP)
MGWR10	MARKING LINE GROOVED WET REF EPOXY 10-INCH
MSL18	MARKING STOP LINE EPOXY 18-INCH
M24	MARKING CROSSWALK EPOXY BLOCK STYLE 24-INCH
MC24	MARKING CHEVRON EPOXY 24-INCH
MIN	MARKING ISLAND NOSE EPOXY
MC	MARKING CURB EPOXY
MP	MARKING PARKING STALL EPOXY (WHITE)
MS	MARKING SYMBOL EPOXY

KERST RD

N

EDGEWOOD CT

MATCH LINE STA 945+00'SB'

MGWR6 (WHITE)

MBG6 (WHITE/BLACK)

MGWRG6 (WHITE)

IH 39 SB

'SB' 950'SB' 955'SB' 960'SB' 965'SB' 970'SB' 975

MGWR6 (YELLOW)

IH 39 NB

MATCH LINE STA 975+00'SB'

OLD J

PROJECT NO: 1166-04-85	HWY: IH 39	COUNTY: MARQUETTE	PAVEMENT MARKING	SHEET 52	E

FILE NAME : G:\00\00093\00093777\CADD\SHEETSPLAN\024501-PM.DWG
LAYOUT NAME - 025404-pm

PLOT DATE : 5/1/2026 1:35 PM PLOT BY : SHAWN DOLENS PLOT NAME : PLOT SCALE : 1 IN:200 FT

WISDOT/CADDS SHEET 44

2

MATCH LINE STA 975+00'SB'

MGWRG6 (WHITE)

MGWR6 (WHITE)

414'LC'

416'LC'

50'

418'LC'

MGWR6 (YELLOW)

420'LC'

422'LC'

MGWR6 (WHITE)

424'LC'

426'LC'

428'LC'

430'LC'

SEE PAVEMENT MARKING - CTH E/J SHEETS FOR ADDITIONAL DETAILS

CTH E / CTH J

N

MGWR6 (WHITE)

432'LD'

434'LD'

436'LD'

438'LD'

MGWR6 (YELLOW)

'SB'

980'SB'

PHYSICAL GORE

985'SB'

990'SB'

995'SB'

1000'SB'

100

IH 39 SB

MGWR6 (WHITE)

MBG6 (WHITE/BLACK)

MGWR10 (WHITE)

MGWR6 (YELLOW)

IH 39 NB

MATCH LINE STA 1005+00'SB'

MARKING LEGEND

M6	MARKING LINE EPOXY 6-INCH
MGWR6	MARKING LINE GROOVED WET REF EPOXY 6-INCH
MBG6	MARKING LINE GROOVED WET REF EPOXY 6-INCH (WHITE) & MARKING LINE GROOVED BLACK EPOXY 6-INCH (12.5' WHITE EPOXY LAGGED BY 12.5' BLACK EPOXY)
MGWRG6	MARKING LINE GROOVED WET REF EPOXY 6-INCH SKIPS (3' DASH 9' GAP)
MGWR10	MARKING LINE GROOVED WET REF EPOXY 10-INCH
MSL18	MARKING STOP LINE EPOXY 18-INCH
M24	MARKING CROSSWALK EPOXY BLOCK STYLE 24-INCH
MC24	MARKING CHEVRON EPOXY 24-INCH
MIN	MARKING ISLAND NOSE EPOXY
MC	MARKING CURB EPOXY
MP	MARKING PARKING STALL EPOXY (WHITE)
MS	MARKING SYMBOL EPOXY

N CHARLES ST

MGWR6 (YELLOW)

MGWR6 (WHITE)

50'

440'LD'

MGWR6 (WHITE)

442'LD'

MGWR10 (WHITE)

444'LD'

MGWRG6 (WHITE)

MATCH LINE STA 1005+00'SB'

5'SB'

1010'SB'

1015'SB'

MGWR6 (WHITE)

MBG6 (WHITE/BLACK)

1020'SB'

1025'SB'

1030'SB'

1035

IH 39 SB

PHYSICAL GORE

MC24 (WHITE)

MGWR6 (YELLOW)

IH 39 NB

N

HARRIS CT

CHARLES ST

MATCH LINE STA 1035+00'SB'

2

PROJECT NO: 1166-04-85	HWY: IH 39	COUNTY: MARQUETTE	PAVEMENT MARKING	SHEET 53	E

FILE NAME : G:\00\00093\00093777\CADD\SHEETSPLAN\024501-PM.DWG
LAYOUT NAME - 025405-pm

PLOT DATE : 5/1/2026 1:36 PM PLOT BY : SHAWN DOLENS PLOT NAME : PLOT SCALE : 1 IN:200 FT

2

MARKING AERIAL ENFORCEMENT BAR EPOXY FOLLOW STANDARD DETAIL DRAWING "AERIAL ENFORCEMENT BARS PAVEMENT MARKING DETAILS"

MGWR6 (WHITE)

MBG6 (WHITE/BLACK)

MGWR6 (YELLOW)

IH 39 SB

IH 39 NB

MATCH LINE STA 1035+00'SB'

5'SB' 1040'SB' 1045'SB' 1050'SB' 1055'SB' 1060'SB' 1065

MATCH LINE STA 1065+00'SB'

N

2

MARKING LEGEND

M6	MARKING LINE EPOXY 6-INCH
MGWR6	MARKING LINE GROOVED WET REF EPOXY 6-INCH
MBG6	MARKING LINE GROOVED WET REF EPOXY 6-INCH (WHITE) & MARKING LINE GROOVED BLACK EPOXY 6-INCH (12.5' WHITE EPOXY LAGGED BY 12.5' BLACK EPOXY)
MGWRG6	MARKING LINE GROOVED WET REF EPOXY 6-INCH SKIPS (3' DASH 9' GAP)
MGWR10	MARKING LINE GROOVED WET REF EPOXY 10-INCH
MSL18	MARKING STOP LINE EPOXY 18-INCH
M24	MARKING CROSSWALK EPOXY BLOCK STYLE 24-INCH
MC24	MARKING CHEVRON EPOXY 24-INCH
MIN	MARKING ISLAND NOSE EPOXY
MC	MARKING CURB EPOXY
MP	MARKING PARKING STALL EPOXY (WHITE)
MS	MARKING SYMBOL EPOXY

UNNAMED TRIBUTARY TO WESTFIELD CREEK

MGWR6 (WHITE)

MBG6 (WHITE/BLACK)

MGWR6 (YELLOW)

IH 39 SB

IH 39 NB

MATCH LINE STA 1065+00'SB'

5'SB' 1070'SB' 1075'SB' 1080'SB' 1085'SB' 1090'SB' 1095

MATCH LINE STA 1095+00'SB'

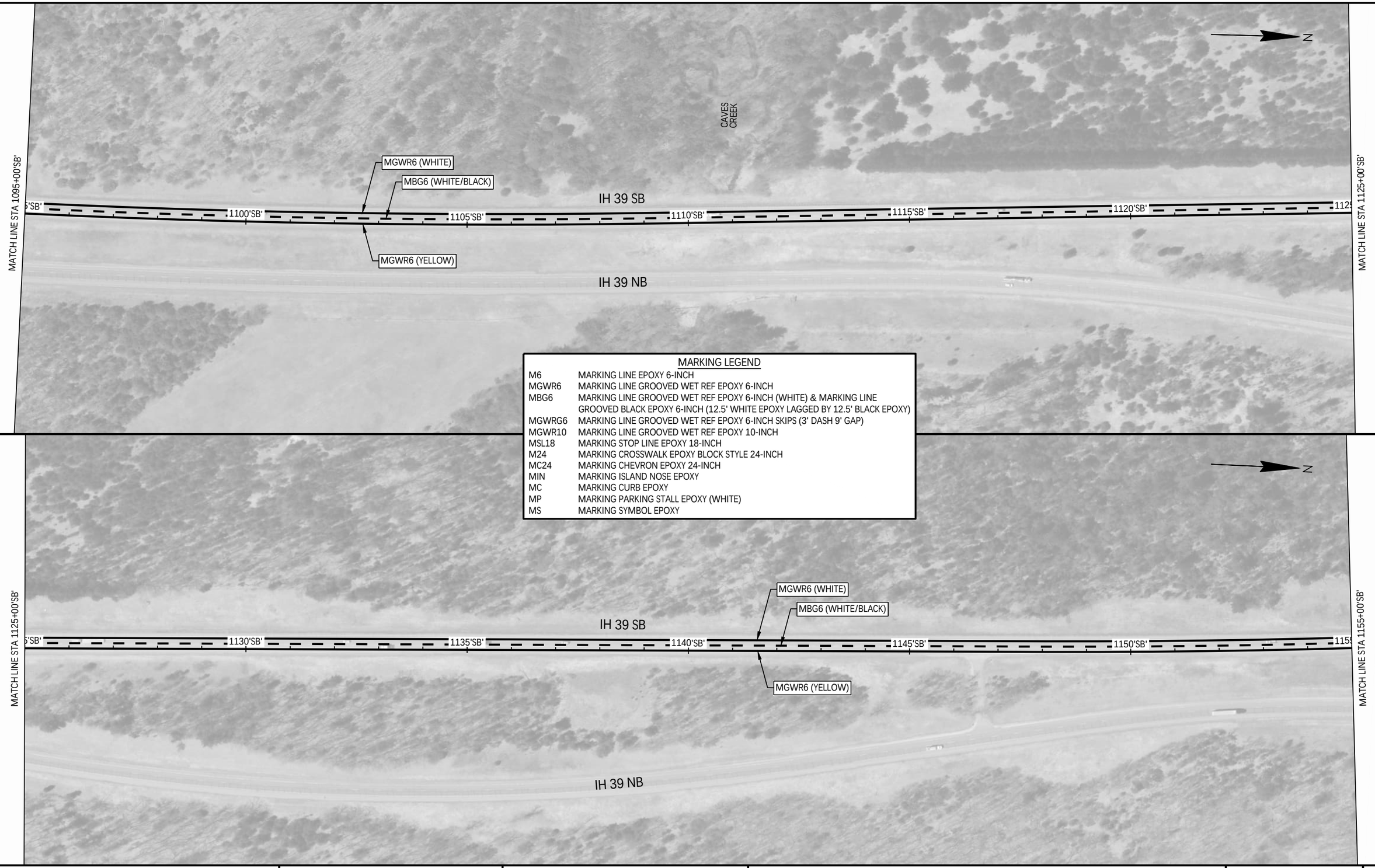
N

PROJECT NO: 1166-04-85	HWY: IH 39	COUNTY: MARQUETTE	PAVEMENT MARKING	SHEET 54	E

FILE NAME : G:\00\00093\00093777\CADD\SHEETSPLAN\024501-PM.DWG
LAYOUT NAME - 024506-pm

PLOT DATE : 5/1/2026 1:36 PM PLOT BY : SHAWN DOLENS PLOT NAME : PLOT SCALE : 1 IN:200 FT

2



MARKING LEGEND

M6	MARKING LINE EPOXY 6-INCH
MGWR6	MARKING LINE GROOVED WET REF EPOXY 6-INCH
MBG6	MARKING LINE GROOVED WET REF EPOXY 6-INCH (WHITE) & MARKING LINE GROOVED BLACK EPOXY 6-INCH (12.5' WHITE EPOXY LAGGED BY 12.5' BLACK EPOXY)
MGWRG6	MARKING LINE GROOVED WET REF EPOXY 6-INCH SKIPS (3' DASH 9' GAP)
MGWR10	MARKING LINE GROOVED WET REF EPOXY 10-INCH
MSL18	MARKING STOP LINE EPOXY 18-INCH
M24	MARKING CROSSWALK EPOXY BLOCK STYLE 24-INCH
MC24	MARKING CHEVRON EPOXY 24-INCH
MIN	MARKING ISLAND NOSE EPOXY
MC	MARKING CURB EPOXY
MP	MARKING PARKING STALL EPOXY (WHITE)
MS	MARKING SYMBOL EPOXY

2

PROJECT NO: 1166-04-85	HWY: IH 39	COUNTY: MARQUETTE	PAVEMENT MARKING	SHEET 55	E

2

2

DOVER CT

N

MATCH LINE STA 1155+00'SB'

MATCH LINE STA 1185+00'SB'

IH 39 SB

MGWR6 (WHITE)

MBG6 (WHITE/BLACK)

MGWR6 (YELLOW)

'SB' 1160'SB' 1165'SB' 1170'SB' 1175'SB' 1180'SB' 118

IH 39 NB

MARKING LEGEND

M6	MARKING LINE EPOXY 6-INCH
MGWR6	MARKING LINE GROOVED WET REF EPOXY 6-INCH
MBG6	MARKING LINE GROOVED WET REF EPOXY 6-INCH (WHITE) & MARKING LINE GROOVED BLACK EPOXY 6-INCH (12.5' WHITE EPOXY LAGGED BY 12.5' BLACK EPOXY)
MGWRG6	MARKING LINE GROOVED WET REF EPOXY 6-INCH SKIPS (3' DASH 9' GAP)
MGWR10	MARKING LINE GROOVED WET REF EPOXY 10-INCH
MSL18	MARKING STOP LINE EPOXY 18-INCH
M24	MARKING CROSSWALK EPOXY BLOCK STYLE 24-INCH
MC24	MARKING CHEVRON EPOXY 24-INCH
MIN	MARKING ISLAND NOSE EPOXY
MC	MARKING CURB EPOXY
MP	MARKING PARKING STALL EPOXY (WHITE)
MS	MARKING SYMBOL EPOXY

N

MATCH LINE STA 1185+00'SB'

MATCH LINE STA 1215+00'SB'

IH 39 SB

MGWR6 (WHITE)

MBG6 (WHITE/BLACK)

MGWR6 (YELLOW)

'SB' 1190'SB' 1195'SB' 1200'SB' 1205'SB' 1210'SB' 121

IH 39 NB

PROJECT NO: 1166-04-85	HWY: IH 39	COUNTY: MARQUETTE	PAVEMENT MARKING	SHEET 56	E

2

2

DOVER LN

N

MATCH LINE STA 1215+00'SB'

MATCH LINE STA 1245+00'SB'

MGWR6 (WHITE)

MBG6 (WHITE/BLACK)

MGWR6 (YELLOW)

IH 39 SB

IH 39 SB

5'SB' 1220'SB' 1225'SB' 1230'SB' 1235'SB' 1240'SB' 124

IH 39 NB

IH 39 NB

NB REST AREA 82

MARKING LEGEND

M6	MARKING LINE EPOXY 6-INCH
MGWR6	MARKING LINE GROOVED WET REF EPOXY 6-INCH
MBG6	MARKING LINE GROOVED WET REF EPOXY 6-INCH (WHITE) & MARKING LINE GROOVED BLACK EPOXY 6-INCH (12.5' WHITE EPOXY LAGGED BY 12.5' BLACK EPOXY)
MGWRG6	MARKING LINE GROOVED WET REF EPOXY 6-INCH SKIPS (3' DASH 9' GAP)
MGWR10	MARKING LINE GROOVED WET REF EPOXY 10-INCH
MSL18	MARKING STOP LINE EPOXY 18-INCH
M24	MARKING CROSSWALK EPOXY BLOCK STYLE 24-INCH
MC24	MARKING CHEVRON EPOXY 24-INCH
MIN	MARKING ISLAND NOSE EPOXY
MC	MARKING CURB EPOXY
MP	MARKING PARKING STALL EPOXY (WHITE)
MS	MARKING SYMBOL EPOXY

N

MATCH LINE STA 1245+00'SB'

MATCH LINE STA 1275+00'SB'

5'SB' 1250'SB' 1255'SB' 1260'SB' 1265'SB' 1270'SB' 127

MGWR6 (WHITE)

MBG6 (WHITE/BLACK)

MGWR6 (YELLOW)

IH 39 SB

IH 39 NB

CTH Z

PROJECT NO: 1166-04-85	HWY: IH 39	COUNTY: MARQUETTE	PAVEMENT MARKING	SHEET 57	E

2

2

MATCH LINE STA 1275+00'SB'

MATCH LINE STA 1305+00'SB'

MGWR6 (WHITE)

MBG6 (WHITE/BLACK)

MGWR6 (YELLOW)

IH 39 SB

IH 39 NB

1280'SB'

1285'SB'

1290'SB'

1295'SB'

1300'SB'

N

MARKING LEGEND

M6	MARKING LINE EPOXY 6-INCH
MGWR6	MARKING LINE GROOVED WET REF EPOXY 6-INCH
MBG6	MARKING LINE GROOVED WET REF EPOXY 6-INCH (WHITE) & MARKING LINE GROOVED BLACK EPOXY 6-INCH (12.5' WHITE EPOXY LAGGED BY 12.5' BLACK EPOXY)
MGWRG6	MARKING LINE GROOVED WET REF EPOXY 6-INCH SKIPS (3' DASH 9' GAP)
MGWR10	MARKING LINE GROOVED WET REF EPOXY 10-INCH
MSL18	MARKING STOP LINE EPOXY 18-INCH
M24	MARKING CROSSWALK EPOXY BLOCK STYLE 24-INCH
MC24	MARKING CHEVRON EPOXY 24-INCH
MIN	MARKING ISLAND NOSE EPOXY
MC	MARKING CURB EPOXY
MP	MARKING PARKING STALL EPOXY (WHITE)
MS	MARKING SYMBOL EPOXY

CTH CH

MATCH LINE STA 1305+00'SB'

MATCH LINE STA 1335+00'SB'

MGWR6 (WHITE)

MBG6 (WHITE/BLACK)

MGWR6 (YELLOW)

IH 39 SB

IH 39 NB

1310'SB'

1315'SB'

1320'SB'

1325'SB'

1330'SB'

58'C'

60'C'

62'C'

64'C'

66'C'

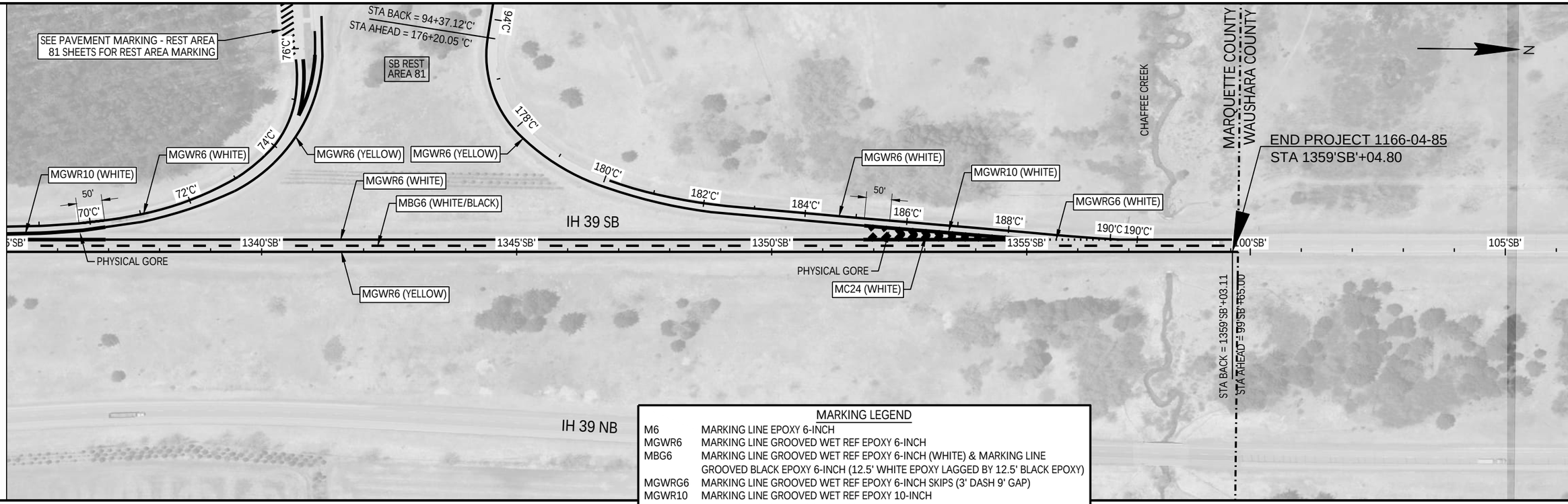
68'C'

MGWRG6 (WHITE)

MGWR10 (WHITE)

N

PROJECT NO: 1166-04-85	HWY: IH 39	COUNTY: MARQUETTE	PAVEMENT MARKING	SHEET 58	E



MARKING LEGEND

M6	MARKING LINE EPOXY 6-INCH
MGWR6	MARKING LINE GROOVED WET REF EPOXY 6-INCH
MBG6	MARKING LINE GROOVED WET REF EPOXY 6-INCH (WHITE) & MARKING LINE GROOVED BLACK EPOXY 6-INCH (12.5' WHITE EPOXY LAGGED BY 12.5' BLACK EPOXY)
MGWRG6	MARKING LINE GROOVED WET REF EPOXY 6-INCH SKIPS (3' DASH 9' GAP)
MGWR10	MARKING LINE GROOVED WET REF EPOXY 10-INCH
MSL18	MARKING STOP LINE EPOXY 18-INCH
M24	MARKING CROSSWALK EPOXY BLOCK STYLE 24-INCH
MC24	MARKING CHEVRON EPOXY 24-INCH
MIN	MARKING ISLAND NOSE EPOXY
MC	MARKING CURB EPOXY
MP	MARKING PARKING STALL EPOXY (WHITE)
MS	MARKING SYMBOL EPOXY

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2

N

N PIONEER PARK RD

SEE PAVEMENT MARKING SHEETS FOR RAMP MARKING

434'LD'

HARRIS CT

MGWR10 (WHITE)
MIN (YELLOW)
MC (YELLOW)
MSL18 (WHITE)
M6 (WHITE)
MSL18 (WHITE)
432'LD'
MIN (YELLOW)
MGWR6 (WHITE)
MGWR10 (WHITE)
MS (ARROW)
MIN (YELLOW)
MGWR6 (YELLOW)
MS (ARROW)
MGWR10 (WHITE)
MS (ARROW)

214'WB'
114'EB'
CTH E / CTH J
216'WB'
116'EB'
218'WB'
118'EB'
220'WB'
120'EB'
222'WB'
122'EB'
224'WB'
124'EB'
226'WB'
126'EB'

MC (YELLOW)
M6 (WHITE)
MIN (YELLOW)
430'LC'
MC (YELLOW)
MGWR6 (WHITE)
MS (ARROW)
MGWR10 (WHITE)
MC (YELLOW)
MC (YELLOW)
MC (YELLOW)
MIN (YELLOW)
MIN (YELLOW)

IH 39 SB
IH 39 NB

S PIONEER PARK RD

428'LC'

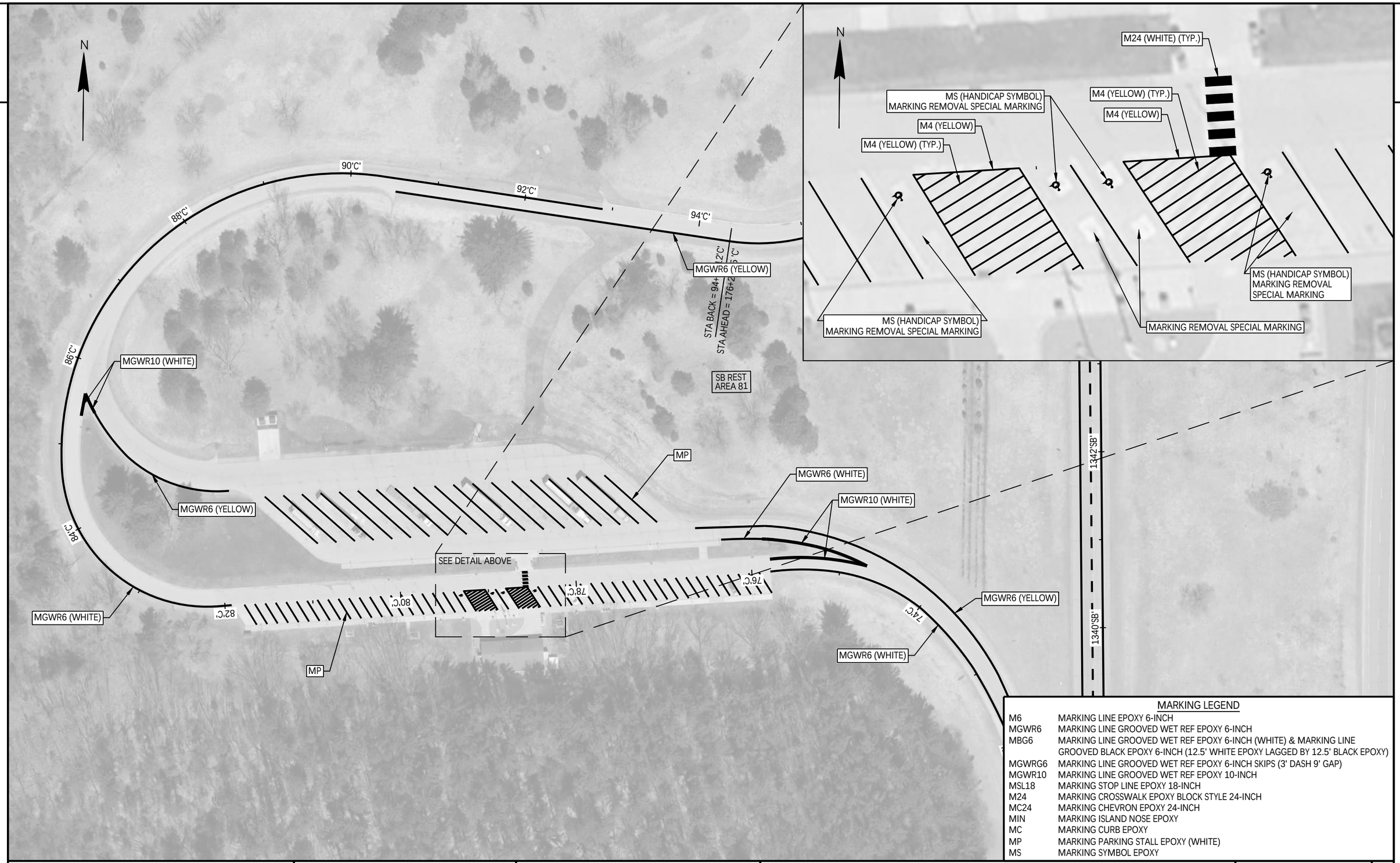
SEE PAVEMENT MARKING SHEETS FOR RAMP MARKING

MARKING LEGEND

M6	MARKING LINE EPOXY 6-INCH
MGWR6	MARKING LINE GROOVED WET REF EPOXY 6-INCH
MBG6	MARKING LINE GROOVED WET REF EPOXY 6-INCH (WHITE) & MARKING LINE GROOVED BLACK EPOXY 6-INCH (12.5' WHITE EPOXY LAGGED BY 12.5' BLACK EPOXY)
MGWRG6	MARKING LINE GROOVED WET REF EPOXY 6-INCH SKIPS (3' DASH 9' GAP)
MGWR10	MARKING LINE GROOVED WET REF EPOXY 10-INCH
MSL18	MARKING STOP LINE EPOXY 18-INCH
M24	MARKING CROSSWALK EPOXY BLOCK STYLE 24-INCH
MC24	MARKING CHEVRON EPOXY 24-INCH
MIN	MARKING ISLAND NOSE EPOXY
MC	MARKING CURB EPOXY
MP	MARKING PARKING STALL EPOXY (WHITE)
MS	MARKING SYMBOL EPOXY

PROJECT NO: 1166-04-85	HWY: IH 39	COUNTY: MARQUETTE	PAVEMENT MARKING - CTH E/J	SHEET 60	E

2



2

MARKING LEGEND

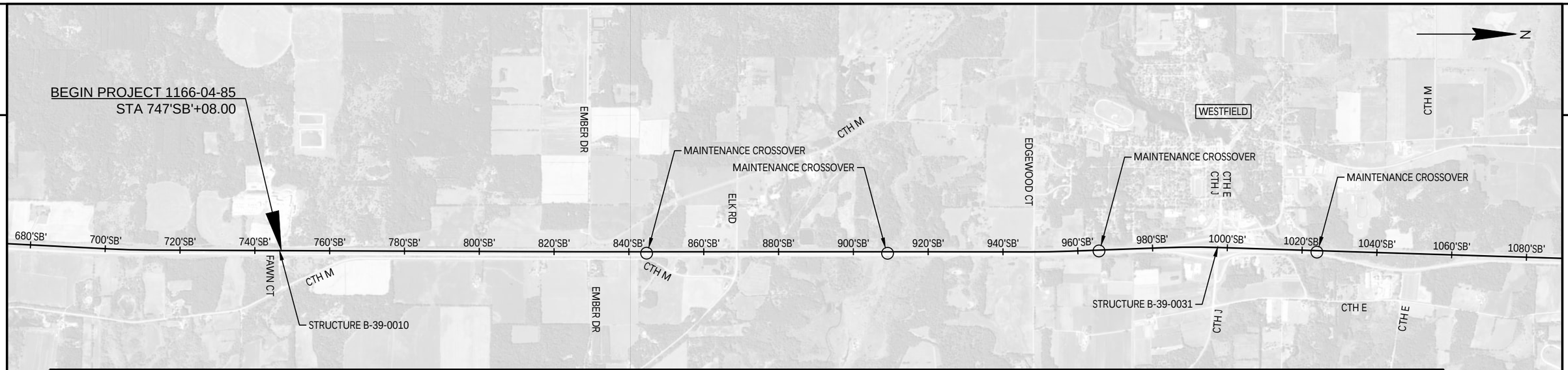
M6	MARKING LINE EPOXY 6-INCH
MGWR6	MARKING LINE GROOVED WET REF EPOXY 6-INCH
MBG6	MARKING LINE GROOVED WET REF EPOXY 6-INCH (WHITE) & MARKING LINE GROOVED BLACK EPOXY 6-INCH (12.5' WHITE EPOXY LAGGED BY 12.5' BLACK EPOXY)
MGWRG6	MARKING LINE GROOVED WET REF EPOXY 6-INCH SKIPS (3' DASH 9' GAP)
MGWR10	MARKING LINE GROOVED WET REF EPOXY 10-INCH
MSL18	MARKING STOP LINE EPOXY 18-INCH
M24	MARKING CROSSWALK EPOXY BLOCK STYLE 24-INCH
MC24	MARKING CHEVRON EPOXY 24-INCH
MIN	MARKING ISLAND NOSE EPOXY
MC	MARKING CURB EPOXY
MP	MARKING PARKING STALL EPOXY (WHITE)
MS	MARKING SYMBOL EPOXY

PROJECT NO: 1166-04-85	HWY: IH 39	COUNTY: MARQUETTE	PAVEMENT MARKING - REST AREA 81	SHEET 61	E

FILE NAME : G:\00\00093\00093777\CADD\SHEETSPLAN\024502-PM.DWG
LAYOUT NAME - 024513-pm

PLOT DATE : 5/1/2026 1:37 PM PLOT BY : SHAWN DOLENS PLOT NAME : PLOT SCALE : 1 IN:100 FT

WISDOT/CADDS SHEET 42



TRAFFIC CONTROL NOTES:

DRAWINGS SHOW TRAFFIC CONTROL FOR A TYPICAL SITUATION. ADDITIONAL TRAFFIC CONTROL DEVICES MAY REQUIRE AND/OR LAYOUT DETAILS MODIFIED DEPENDING ON METHODS OF SEQUENCE OF OPERATIONS.

THE EXACT NUMBER, LOCATION, AND SPACING OF ALL SIGNS AND DEVICES SHALL BE ADJUSTED TO FIT FIELD CONDITIONS AS APPROVED BY THE ENGINEER.

THE SPACING BETWEEN SIGNS SHOULD BE ADJUSTED TO NOT CONFLICT WITH AND TO PROVIDE A MINIMUM OF 200 FEET (500 FEET DESIRABLE) CLEARANCE TO EXISTING SIGNS.

WARNING LIGHTS SHALL NOT BE WORKING ON "COVERED" OR "DOWNED" SIGNS OR BARRICADES.

ALL SIGNS ARE 48" x 48" UNLESS OTHERWISE NOTED.

"WO" SIGNS ARE THE SAME AS "W" SIGNS EXCEPT THE BACKGROUND IS ORANGE.

ANY SIGNS OR PAVEMENT MARKING, TEMPORARY OR EXISTING, WHICH CONFLICT WITH TRAFFIC CONTROL "IN USE" SHALL BE REMOVED OR COVERED AS NEED OR AS APPROVAED BY THE ENGINEER.

CONSIDER ROADWAY GEOMETRICS WHEN LOCATING SIGNS AND ARROW BOARD SO THE DRIVER HAS A CLEAR VIEW OF THE ARROW BOARD AND LANE CLOSURE DRUMS.

REMOVE PAVEMENT MARKINGS AND PLACE TEMPORARY PAVEMENT MARKING LINE IF LANE CLOSURE IS TO BE IN PLACE 4 OR MORE CONTINUOUS DAYS AND NIGHTS.

EXISTING POST MOUNTED SPEED LIMIT SIGNS SHOULD BE COVERED OR REMOVED.

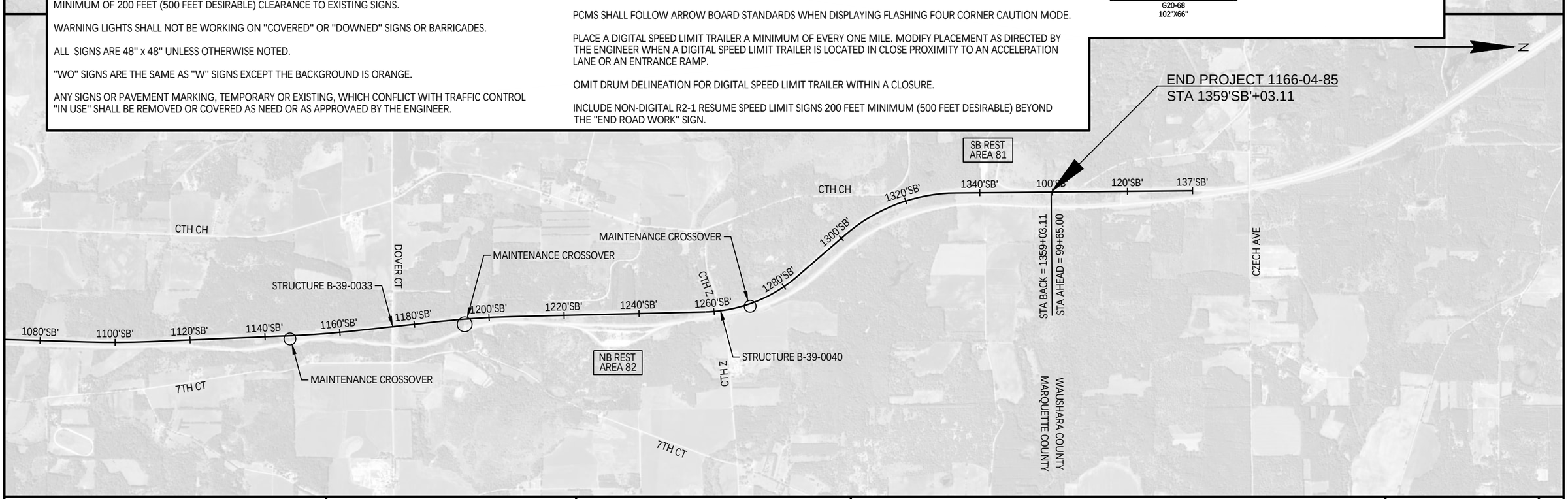
PCMS SHALL FOLLOW ARROW BOARD STANDARDS WHEN DISPLAYING FLASHING FOUR CORNER CAUTION MODE.

PLACE A DIGITAL SPEED LIMIT TRAILER A MINIMUM OF EVERY ONE MILE. MODIFY PLACEMENT AS DIRECTED BY THE ENGINEER WHEN A DIGITAL SPEED LIMIT TRAILER IS LOCATED IN CLOSE PROXIMITY TO AN ACCELERATION LANE OR AN ENTRANCE RAMP.

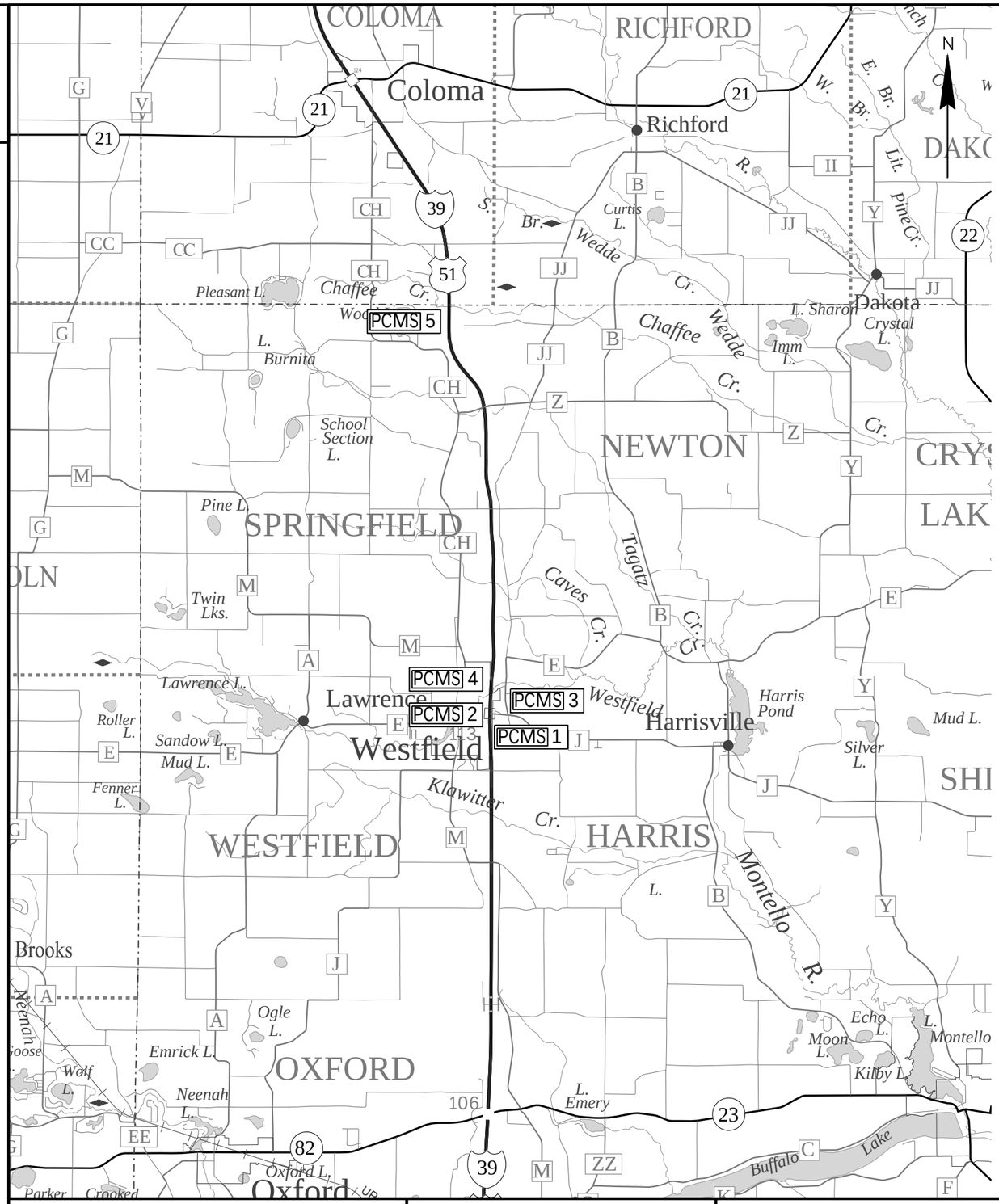
OMIT DRUM DELINEATION FOR DIGITAL SPEED LIMIT TRAILER WITHIN A CLOSURE.

INCLUDE NON-DIGITAL R2-1 RESUME SPEED LIMIT SIGNS 200 FEET MINIMUM (500 FEET DESIRABLE) BEYOND THE "END ROAD WORK" SIGN.

PLACE G20-68 SIGN BETWEEN THE ROAD WORK 1 MILE AND THE 1/2 MILE SIGN



PROJECT NO: 1166-04-85	HWY: IH 39	COUNTY: MARQUETTE	TRAFFIC CONTROL NOTES	SHEET 62	E



GENERAL NOTES FOR CHANGEABLE MESSAGE BOARDS:

PCMS = PORTABLE CHANGEABLE MESSAGE SIGN

CONSIDER CLEAR ROADWAY GEOMETRICS WHEN LOCATING MESSAGE SIGNS. PLACE THE SIGNS SO THE DRIVER HAS A CLEAR VIEW OF THE MESSAGE FOR A MINIMUM OF 1500 FEET.

MESSAGE SIGNS SHOULD BE PLACED AS FAR AWAY FROM LIVE TRAFFIC LANES AS POSSIBLE WITHOUT HAMPERING VISIBILITY. IN ADVANCE OF INTERSTATE CONSTRUCTION PROJECTS, THE SIGNS SHOULD BE PLACED ON THE BACKSLOPE BEYOND THE DITCH. THE LOCATION SELECTED SHOULD BE AT OR SLIGHTLY ABOVE THE ROADWAY.

FOR INTERMITTENT WORK SUCH AS FREEWAY LANE CLOSURE, OR WHERE SITE CONDITIONS DO NOT ALLOW OTHERWISE, THE SIGN MAY BE PLACED ON THE SHOULDER. THE SITE SHOULD BE VISITED TO ASSURE VISIBILITY, SAFETY AND MAINTENANCE CONSICERATIONS. A TAPER OF FIVE (5) REFLECTORIZED DRUMS SHALL BE PLACED ON THE SHOULDER IF IT IS NOT SHIELDED BY BARRIER.

PCMS SITE LOCATIONS

PCMS X

SITE	APPROXIMATE LOCATION
1	ON NB IH 39 (SEE IH 39 RAMP CLOSURE - INTERCHANGE DETAILS)
2	ON EB CTH E/J (SEE IH 39 RAMP CLOSURE - INTERCHANGE DETAILS)
3	ON WB CTH E/J (SEE IH 39 RAMP CLOSURE - INTERCHANGE DETAILS)
4	ON SB IH 39 (SEE IH 39 RAMP CLOSURE - INTERCHANGE DETAILS)
5	ON SB IH 39 MILE MARKER 120 (SB REST AREA 81 CLOSURE)
MISC	ON SB IH 39 FOR STRADDLING RUMBLE STRIPS

SEE STANDARD DETAIL DRAWINGS "TRAFFIC CONTROL, EXIT RAMP CLOSURE", BARRICADES AND SIGNS FOR MAINLINE CLOSURES", "TRAFFIC CONTROL FOR ENTRANCE RAMP CLOSURE" & "ON RAMP LANE CLOSURE" FOR ADDITIONAL DETAIL.

SB REST AREA 81 CLOSURE

	PLACE PCMS 7 DAYS PRIOR TO RAMP CLOSURE	
SITE NO. LOCATION	PHASE 1 (3 SEC)	PHASE 2 (3 SEC)
SITE 5 IH 39 SB	REST AREA TO CLOSE	DATE TO DATE

MISCELLANEOUS

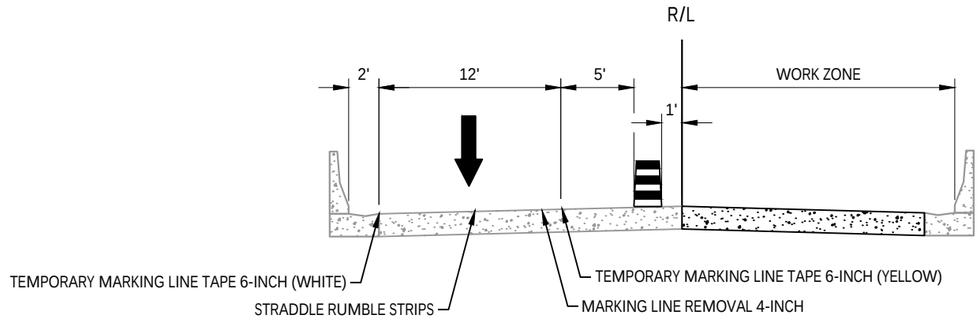
	PLACE PCMS WHEN TRAFFIC STRADDLES RUMBLE STRIPS (SEE TRAFFIC CONTROL & STAGING TYPICAL SECTION SHEETS)	
SITE NO. LOCATION	PHASE 1 (3 SEC)	PHASE 2 (3 SEC)
MISC	STRADDLE RUMBLE STRIPS	STRADDLE RUMBLE STRIPS

PROJECT NO: 1166-04-85	HWY: IH 39	COUNTY: MARQUETTE	TRAFFIC CONTROL - PCMS LOCATIONS	SHEET 63	E

FILE NAME : G:\00\00093\00093777\CADD\SHEETSPLAN\025100-TC PCMS.DWG
LAYOUT NAME - 025001-tc PCMS

PLOT DATE : 5/21/2026 2:47 PM PLOT BY : SHAWN DOLENS PLOT NAME : PLOT SCALE : 1 IN:2 MI

WISDOT/CADDS SHEET 42

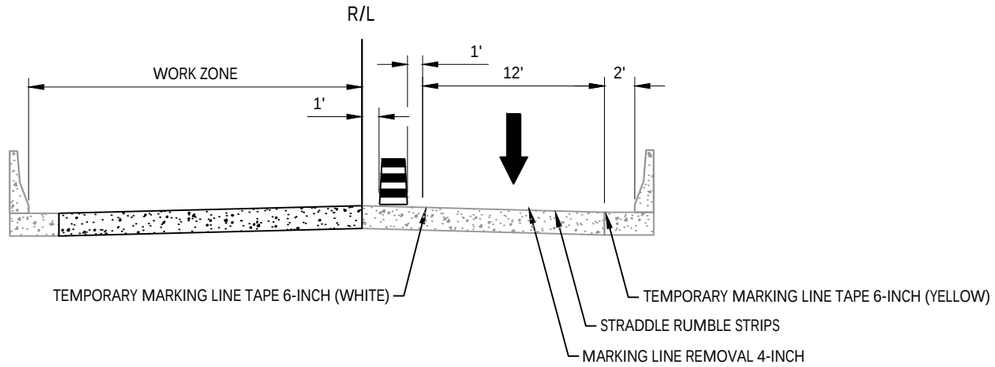


APPROACH SLAB REPLACEMENT STAGE 1A - IH 39 SB

STA 746'SB'+59 - STA 747'SB'+39
STA 1173'SB'+22 - STA 1175'SB'+15
STA 1260'SB'+85 - STA 1262'SB'+77

TRAFFIC CONTROL NOTES (APPLIES TO ALL STAGES)

1. DRAWINGS SHOW TRAFFIC CONTROL FOR A TYPICAL SITUATION. ADDITIONAL TRAFFIC CONTROL DEVICES MAY BE REQUIRED AND/OR LAYOUT DETAILS MODIFIED DEPENDING ON METHODS OF SEQUENCE OF OPERATIONS.
2. THE EXACT NUMBER, LOCATION AND SPACING OF ALL SIGNS AND DEVICES SHALL BE ADJUSTED TO FIT FIELD CONDITIONS AS APPROVED BY THE ENGINEER.
3. THE SPACING BETWEEN SIGNS SHOULD BE ADJUSTED TO NOT CONFLICT WITH AND TO PROVIDE A MINIMUM OF 200 FEET (500 FEET DESIRABLE) CLEARANCE TO EXISTING SIGNS.
4. WARNING LIGHTS SHALL NOT BE WORKING ON "COVERED" OR "DOWNED" SIGNS OR BARRICADES.
5. ALL SIGNS ARE 48" X 48" UNLESS OTHERWISE NOTED.
6. "WO" SIGNS ARE THE SAME AS "W" SIGNS EXCEPT THE BACKGROUND IS ORANGE.
7. ANY SIGNS OR PAVEMENT MARKING, TEMPORARY OR EXISTING, WHICH CONFLICT WITH TRAFFIC CONTROL "IN USE" SHALL BE REMOVED OR COVERED AS NEEDED OR AS APPROVED BY THE ENGINEER.
8. CONSIDER ROADWAY GEOMETRICS WHEN LOCATING SIGNS AND ARROW BOARD SO THE DRIVER HAS A CLEAR VIEW OF THE ARROW BOARD AND LANE CLOSURE DRUMS.
9. REMOVE PAVEMENT MARKINGS AND PLACE TEMPORARY PAVEMENT MARKING LINE IF LANE CLOSURE IS TO BE IN PLACE 4 OR MORE CONTINUOUS DAYS AND NIGHTS.
10. EXISTING POST MOUNTED SPEED LIMIT SIGNS SHOULD BE COVERED OR REMOVED.
11. PCMS SHALL FOLLOW ARROW BOARD STANDARDS WHEN DISPLAYING FLASHING FOUR CORNER CAUTION NOTE.

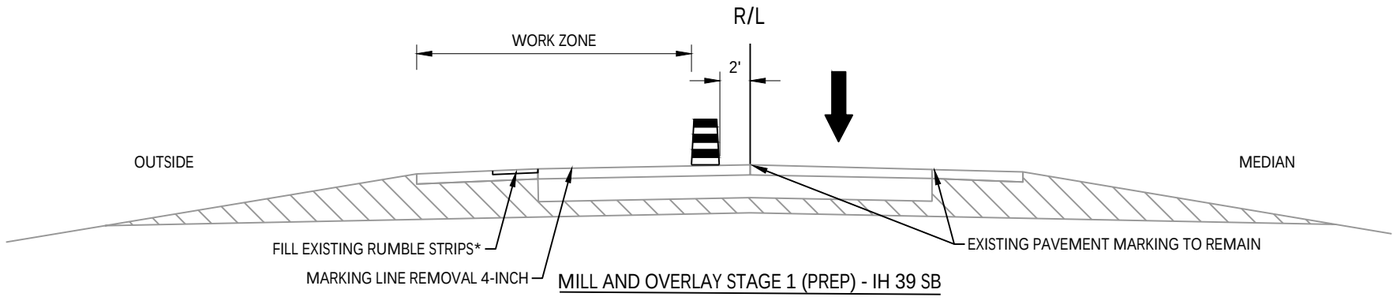


APPROACH SLAB REPLACEMENT STAGE 1B - IH 39 SB

STA 746'SB'+59 - STA 747'SB'+39
STA 1173'SB'+22 - STA 1175'SB'+15
STA 1260'SB'+85 - STA 1262'SB'+77

WORK:
MILL AND PAVE EXISTING SHOULDER RUMBLE STRIPS IN TRAFFIC SHIFT LOCATIONS. INSTALL TEMPORARY PAVEMENT MARKINGS REQUIRED FOR STAGE 1A.

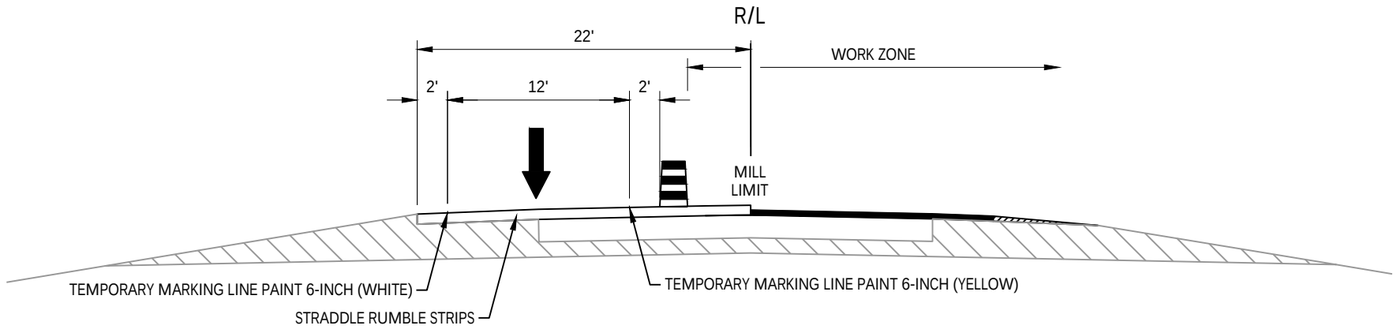
* NOTE: AT LOCATIONS WHERE TRAFFIC WILL TAPER ACROSS



MILL AND OVERLAY STAGE 1 (PREP) - IH 39 SB

WORK:
MILL EXISTING ASPHALTIC SURFACE AND INSTALL LOWER LIFT OF HMA PAVEMENT MEDIAN LANE AND SHOULDER. INSTALL TEMPOARY PAVEMENT MARKINGS REQUIRED FOR STAGE 1B.

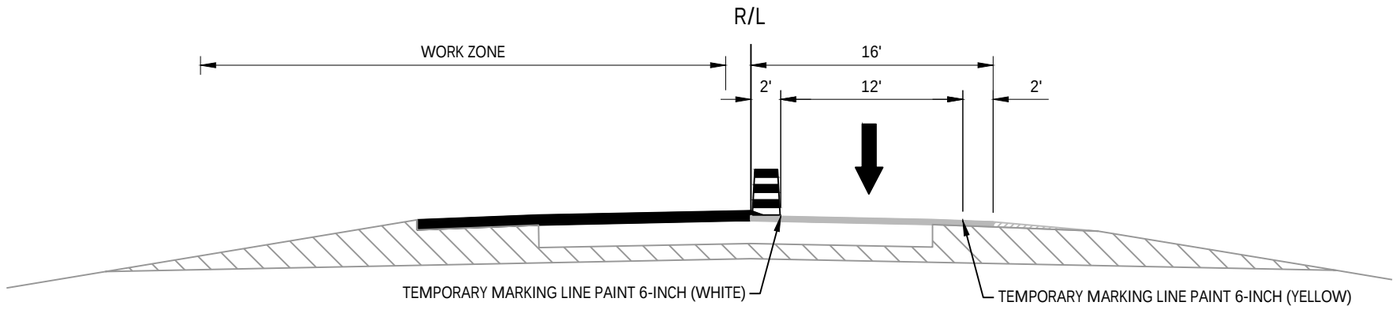
NOTE:
PLACE BASE AGGREGATE DENSE 3/4-INCH ON EXISTING SHOULDERS AS NEEDED TO MATCH THE EDGE OF PAVEMENT GRADE.



MILL AND OVERLAY STAGE 1A - IH 39 SB

WORK:
MILL EXISTING ASPHALTIC SURFACE AND INSTALL LOWER AND UPPER LIFTS OF HMA PAVEMENT OUTSIDE LANE AND SHOULDER. INSTALL PERMANENT PAVEMENT MARKINGS AND RUMBLE STRIPS.

NOTE:
MAINTAIN MINIMUM 14' WIDTH OF PAVEMENT DURING CONSTRUCTION OPERATIONS. RETURN DRUMS TO OTHER SIDE OF CENTERLINE AT THE END OF THE WORKING DAY.

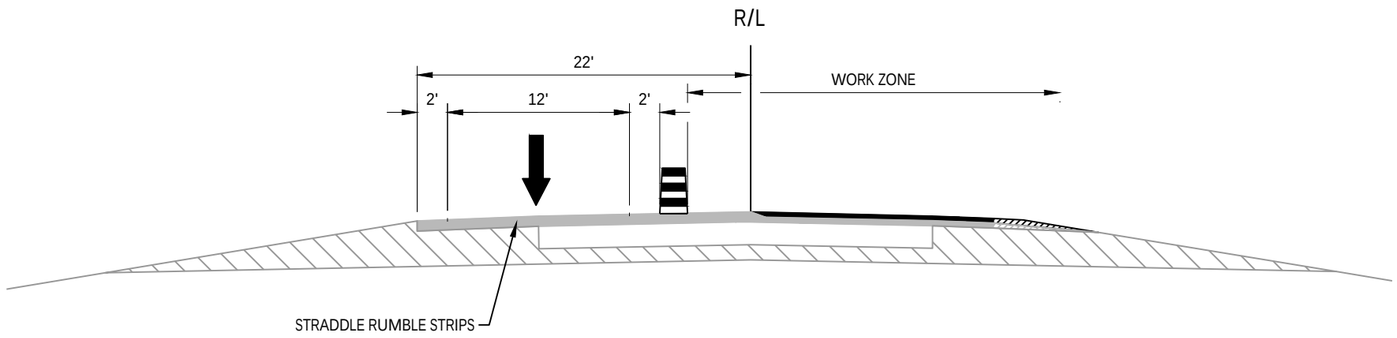


MILL AND OVERLAY STAGE 1B - IH 39 SB

WORK:
INSTALL UPPER LIFT OF HMA PAVEMENT MEDIAN LANE AND SHOULDER. INSTALL PERMANENT PAVEMENT MARKINGS AND RUMBLE STRIPS.

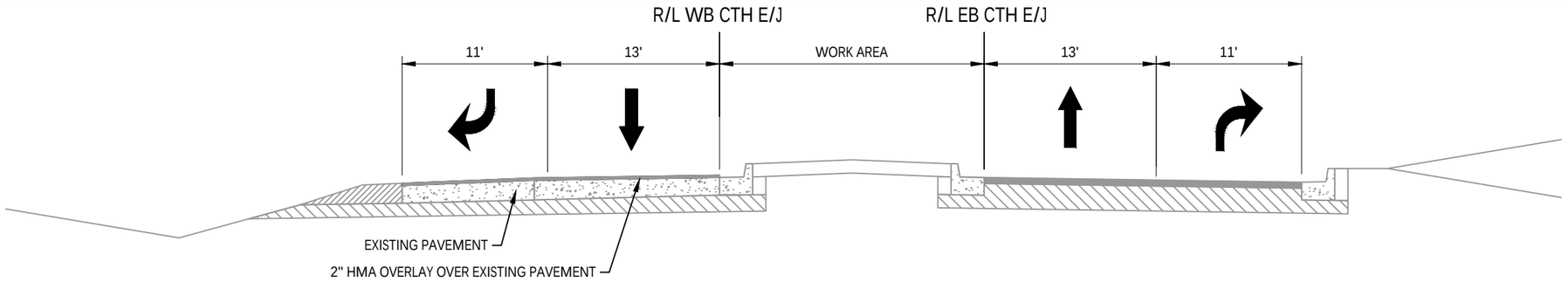
NOTES:
RETURN TRAFFIC CONTROL DRUMS TO CENTERLINE AT END OF WORK DAY.

PLACE BASE AGGREGATE DENSE 3/4-INCH ON EXISTING SHOULDERS AS NEEDED TO MATCH THE EDGE OF PAVEMENT GRADE.



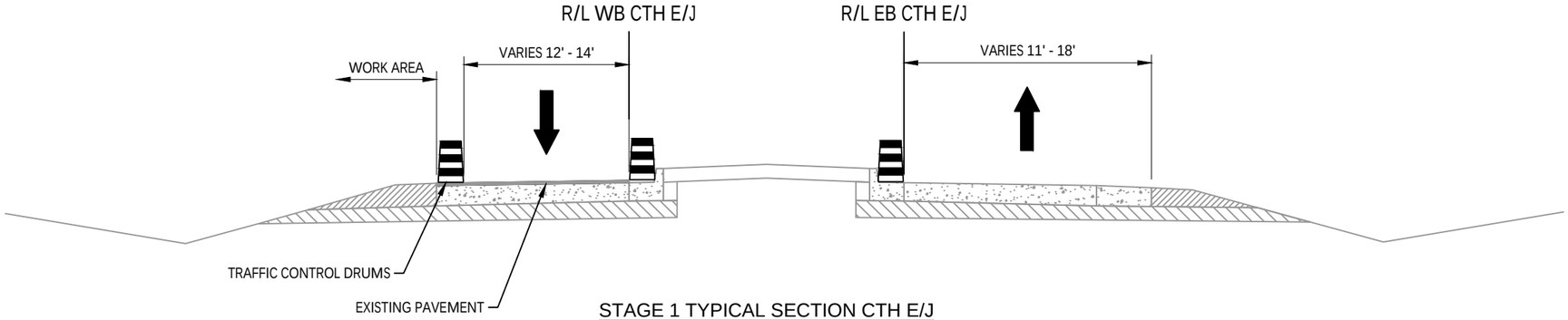
MILL AND OVERLAY STAGE 1C - IH 39 SB

PROJECT NO: 1166-04-85	HWY: IH 39	COUNTY: MARQUETTE	TRAFFIC CONTROL & STAGING TYPICAL SECTION	SHEET 65	E



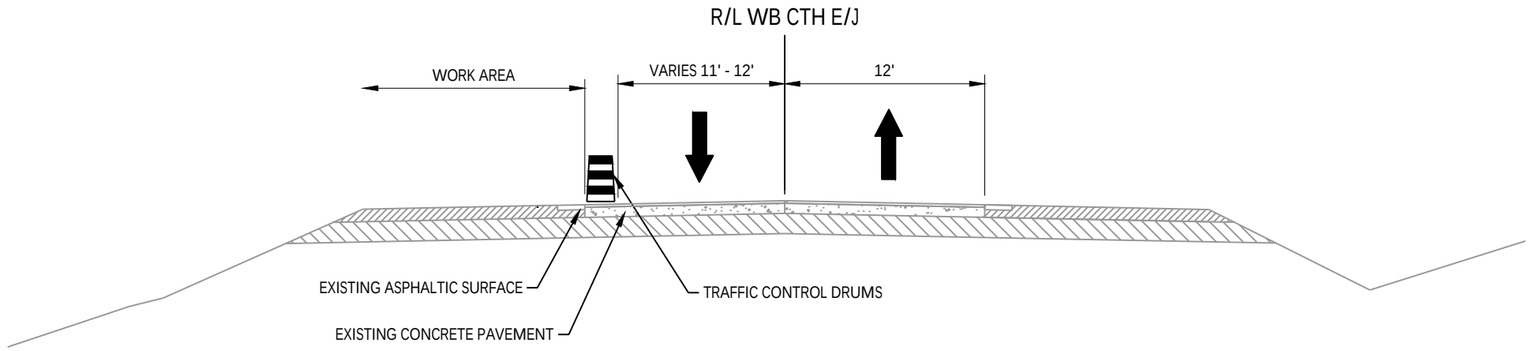
STAGE 1 TYPICAL SECTION CTH E/J

STA 112'EB'+75 - STA 117'EB'+60



STAGE 1 TYPICAL SECTION CTH E/J

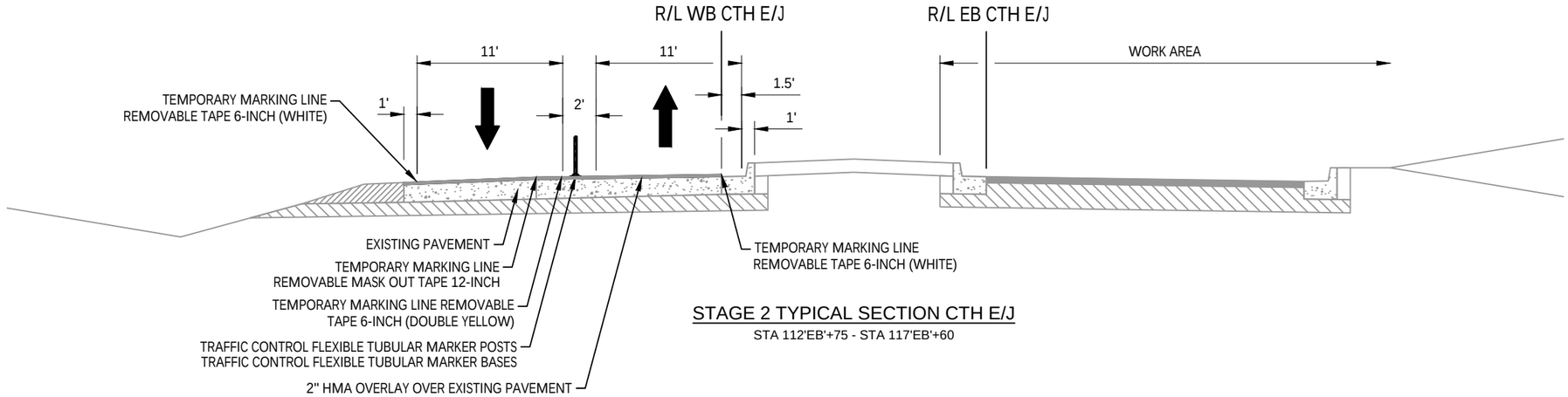
STA 117'EB'+60 - STA 128'EB'+00



STAGE 1 TYPICAL SECTION CTH E/J

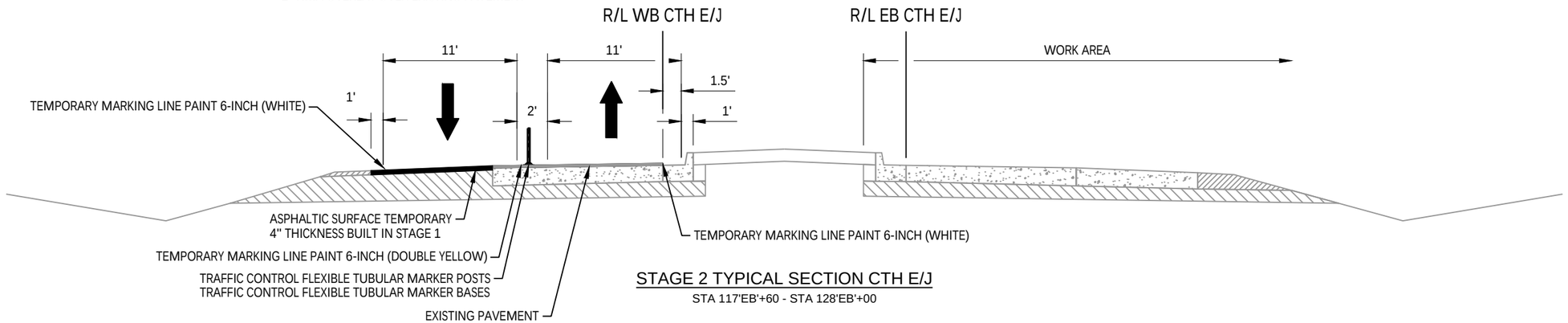
STA 128'EB'+00 - STA 132'EB'+00

PROJECT NO: 1166-04-85	HWY: IH 39	COUNTY: MARQUETTE	TRAFFIC CONTROL & STAGING TYPICAL SECTION - CTH E/J	SHEET 66	E



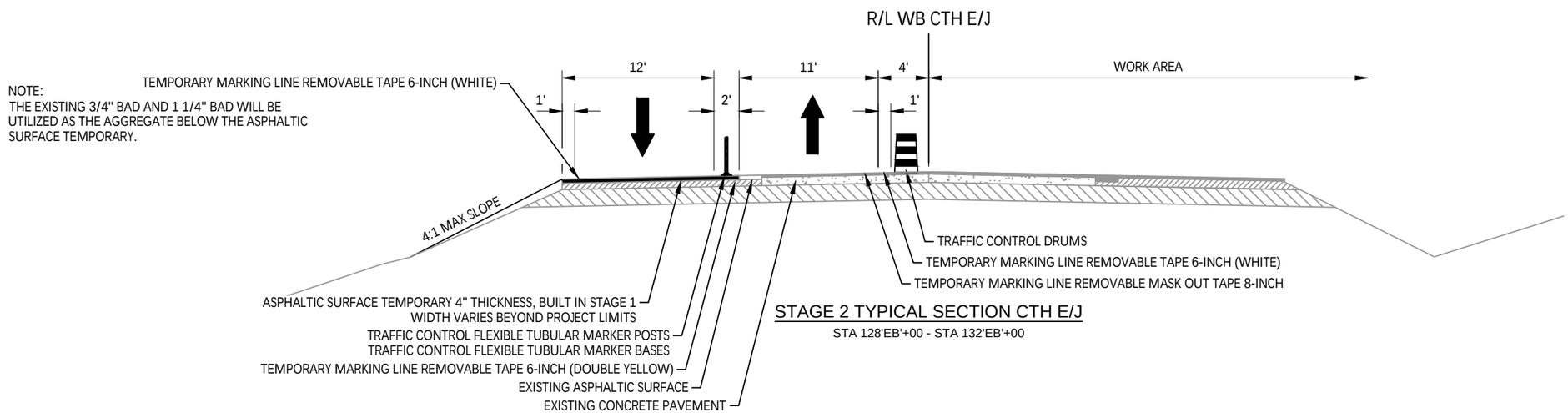
STAGE 2 TYPICAL SECTION CTH E/J

STA 112'EB'+75 - STA 117'EB'+60



STAGE 2 TYPICAL SECTION CTH E/J

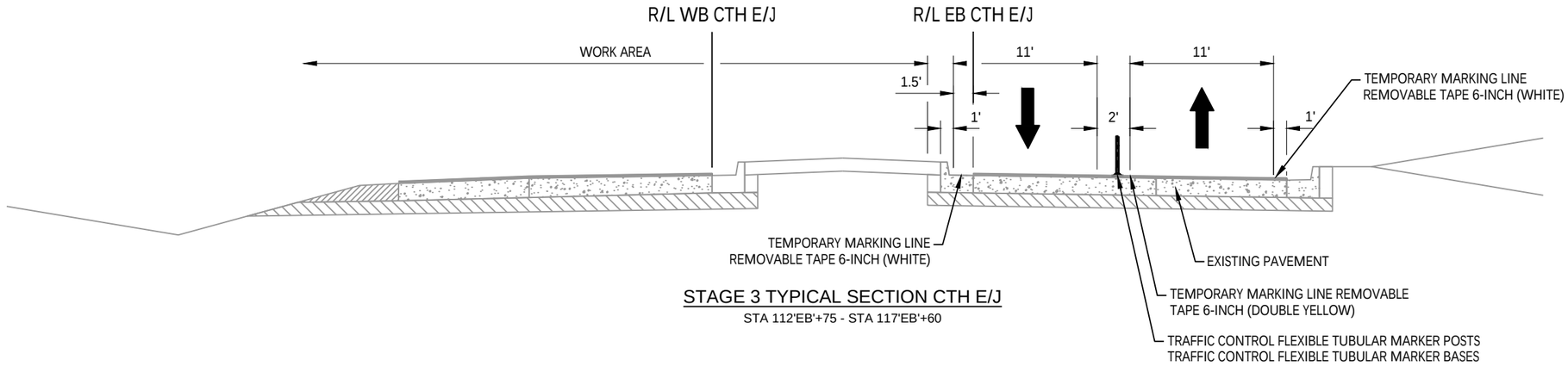
STA 117'EB'+60 - STA 128'EB'+00



STAGE 2 TYPICAL SECTION CTH E/J

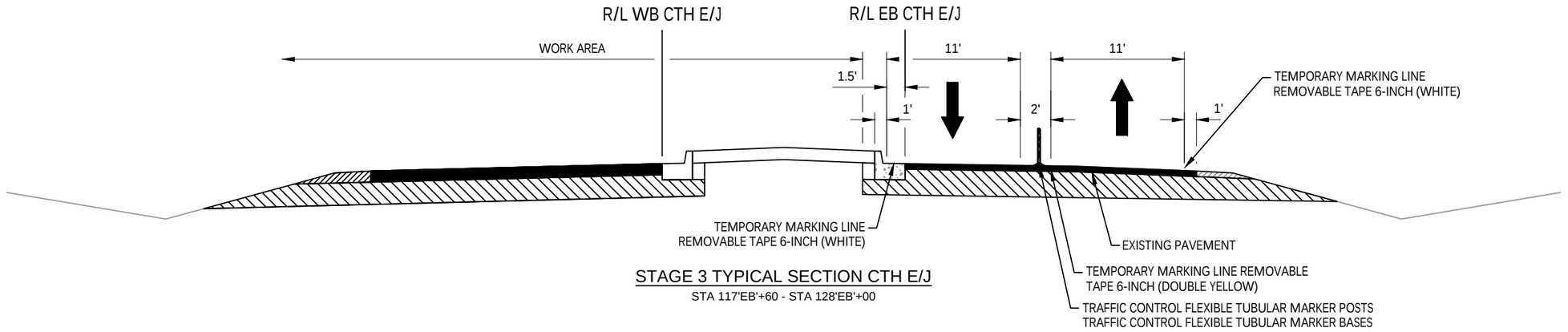
STA 128'EB'+00 - STA 132'EB'+00

PROJECT NO: 1166-04-85	HWY: IH 39	COUNTY: MARQUETTE	TRAFFIC CONTROL & STAGING TYPICAL SECTION - CTH E/J	SHEET 67	E



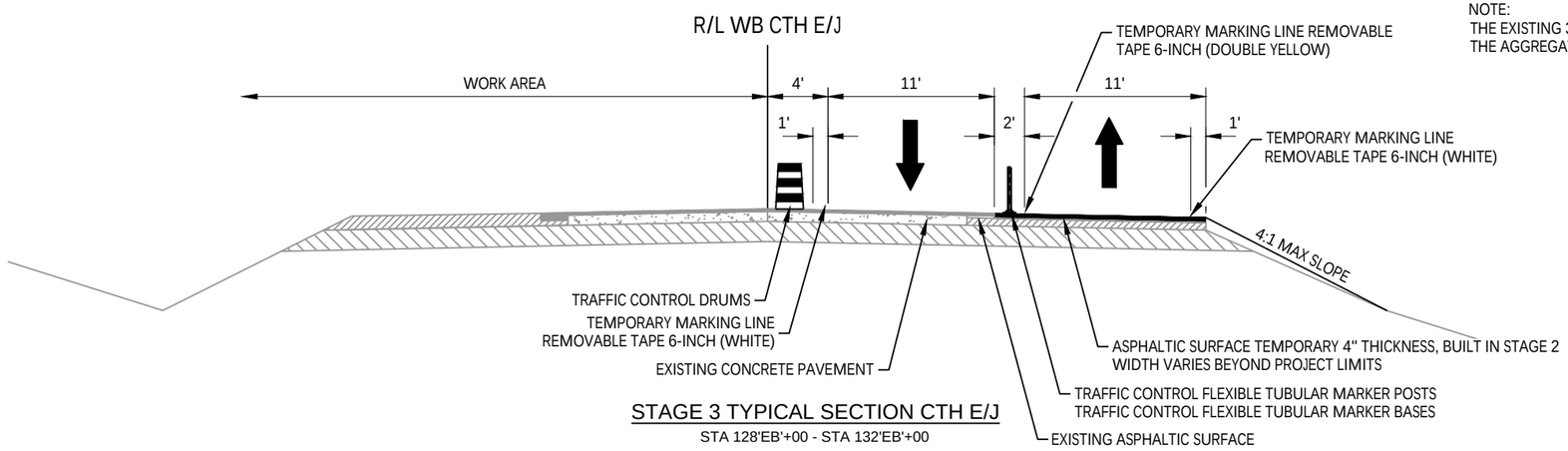
STAGE 3 TYPICAL SECTION CTH E/J

STA 112'EB'+75 - STA 117'EB'+60



STAGE 3 TYPICAL SECTION CTH E/J

STA 117'EB'+60 - STA 128'EB'+00

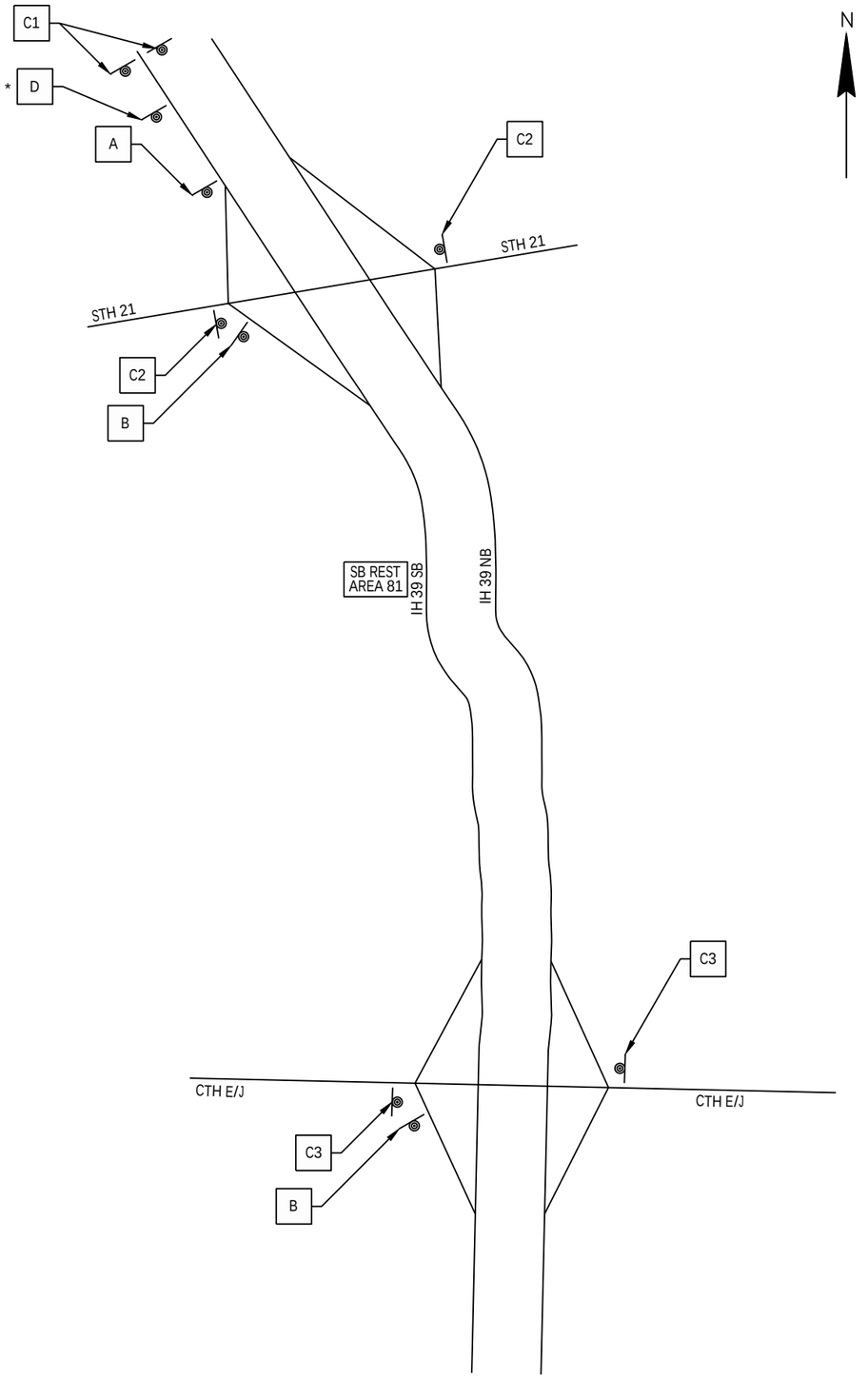


STAGE 3 TYPICAL SECTION CTH E/J

STA 128'EB'+00 - STA 132'EB'+00

NOTE:
THE EXISTING 3/4" BAD AND 1 1/4" BAD WILL BE UTILIZED AS
THE AGGREGATE BELOW THE ASPHALTIC SURFACE TEMPORARY.

PROJECT NO: 1166-04-85	HWY: IH 39	COUNTY: MARQUETTE	TRAFFIC CONTROL & STAGING TYPICAL SECTION - CTH E/J	SHEET 68	E



A

R12-70B
114"X42"

B

W12-52
48"X48"

TRAFFIC CONTROL SIGN AND PERMANENT SUPPORT

SEE STANDARD DETAIL DRAWING "ADVANCED WIDTH RESTRICTION SIGNING" FOR ADDITIONAL INFORMATION.

M3-3
36"X18"

M1-1
36"X36"

C

W12-52
48"X48"

C1 = 7 MILES
C2 = 6 MILES
C3 = 5 MILES

WO57-52
48"X36"

D

102"X54"

* LOCATE SIGN 1000' NORTH OF SAFETY WEIGH STATION.
TO BE INSTALLED DURING SB REST AREA 81 CLOSURE.

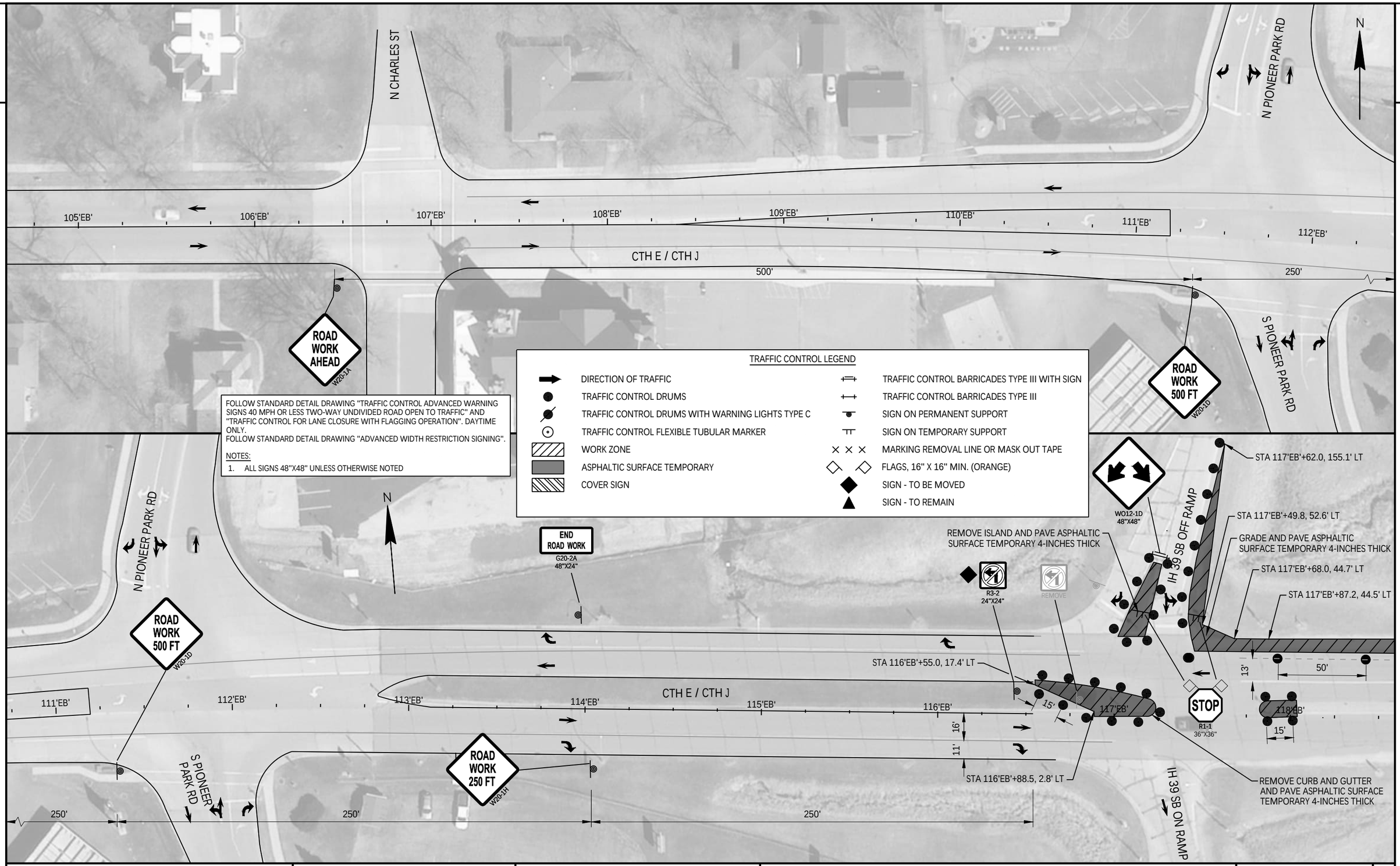
PROJECT NO: 1166-04-85	HWY: IH 39	COUNTY: MARQUETTE	TRAFFIC CONTROL - WIDTH RESTRICTION SIGNING (STAGE 1B)	SHEET 69	E

FILE NAME : G:\00\00093\00093777\CADD\SHEETSPLAN\025103-TC.DWG
LAYOUT NAME - 025106-tc OSOW

PLOT DATE : 6/27/2025 1:53 PM PLOT BY : SHAWN DOLENS PLOT NAME : PLOT SCALE : 1 IN:100 FT

WISDOT/CADDS SHEET 42

2



PROJECT NO: 1166-04-85	HWY: IH 39	COUNTY: MARQUETTE	TRAFFIC CONTROL - CTH E/J STAGE 1	SHEET 70	E

FILE NAME : G:\00\00093\00093777\CADD\SHEETSPLAN\025100-TC STAGING.DWG
LAYOUT NAME - 025107-tc
PLOT DATE : 5/5/2026 8:01 AM
PLOT BY : SHAWN DOLENS
PLOT NAME :
PLOT SCALE : 1 IN:50 FT

2

GRADE AND PAVE ASPHALTIC SURFACE TEMPORARY 4-INCHES THICK

IH 39 SB

IH 39 NB

LANE CLOSED
R11-2L
48"X30"

STA 122'EB'+52.4, 49.5' LT

IH 39 NB ON RAMP

STA 122'EB'+79.3, 107.8' LT

STA 122'EB'+92.8, 96.2' LT

GRADE AND PAVE ASPHALTIC SURFACE TEMPORARY 4-INCHES THICK

STA 123'EB'+00.2, 85.3' LT

STA 123'EB'+04.9, 71.7' LT

REMOVE CURB AND GUTTER AND PAVE ASPHALTIC SURFACE TEMPORARY 4-INCHES THICK

CTH E / CTH J

50'

12'

15'

14'

118'EB'

119'EB'

120'EB'

121'EB'

122'EB'

123'EB'

124'EB'

125'EB'

18'

11'

STA 118'EB'+04.0, 12.5' LT

STA 118'EB'+04.0, 2.5' LT

REMOVE CURB AND GUTTER AND PAVE ASPHALTIC SURFACE TEMPORARY 4-INCHES THICK

STA 122'EB'+17.0, 22.5' LT

STA 122'EB'+17.0, 12.5' LT

REMOVE CURB AND GUTTER AND PAVE ASPHALTIC SURFACE TEMPORARY 4-INCHES THICK

STA 123'EB'+86.5, 17.8' LT

STA 123'EB'+41.7, 5.1' LT

IH 39 NB ON RAMP

TO EAST FRONTAGE ROAD

N

TRAFFIC CONTROL LEGEND

DIRECTION OF TRAFFIC	TRAFFIC CONTROL BARRICADES TYPE III WITH SIGN
TRAFFIC CONTROL DRUMS	TRAFFIC CONTROL BARRICADES TYPE III
TRAFFIC CONTROL DRUMS WITH WARNING LIGHTS TYPE C	SIGN ON PERMANENT SUPPORT
TRAFFIC CONTROL FLEXIBLE TUBULAR MARKER	SIGN ON TEMPORARY SUPPORT
WORK ZONE	MARKING REMOVAL LINE OR MASK OUT TAPE
ASPHALTIC SURFACE TEMPORARY	FLAGS, 16" X 16" MIN. (ORANGE)
COVER SIGN	SIGN - TO BE MOVED
	SIGN - TO REMAIN

FOLLOW STANDARD DETAIL DRAWING "TRAFFIC CONTROL ADVANCED WARNING SIGNS 40 MPH OR LESS TWO-WAY UNDIVIDED ROAD OPEN TO TRAFFIC" AND "TRAFFIC CONTROL FOR LANE CLOSURE WITH FLAGGING OPERATION". DAYTIME ONLY.
FOLLOW STANDARD DETAIL DRAWING "ADVANCED WIDTH RESTRICTION SIGNING".

NOTES:

1. ALL SIGNS 48"X48" UNLESS OTHERWISE NOTED

N

STA 125'EB'+13.9, 45.0' LT

REMOVE CURB AND GUTTER AND PAVE ASPHALTIC SURFACE TEMPORARY 4-INCHES THICK

STA 128'EB'+30.3, 36.7' LT

LANE CLOSED
R11-2L
48"X30"

HARRIS CT

STA 129'EB'+59.4, 33.7' LT

STA 129'EB'+90.9, 33.2' LT

REMOVE CURB AND GUTTER AND PAVE ASPHALTIC SURFACE TEMPORARY 4-INCHES THICK

STA 130'EB'+71.2, 24.3' LT

15'

14'

50'

125'EB'

126'EB'

127'EB'

CTH E / CTH J

128'EB'

129'EB'

130'EB'

131'EB'

132'EB'

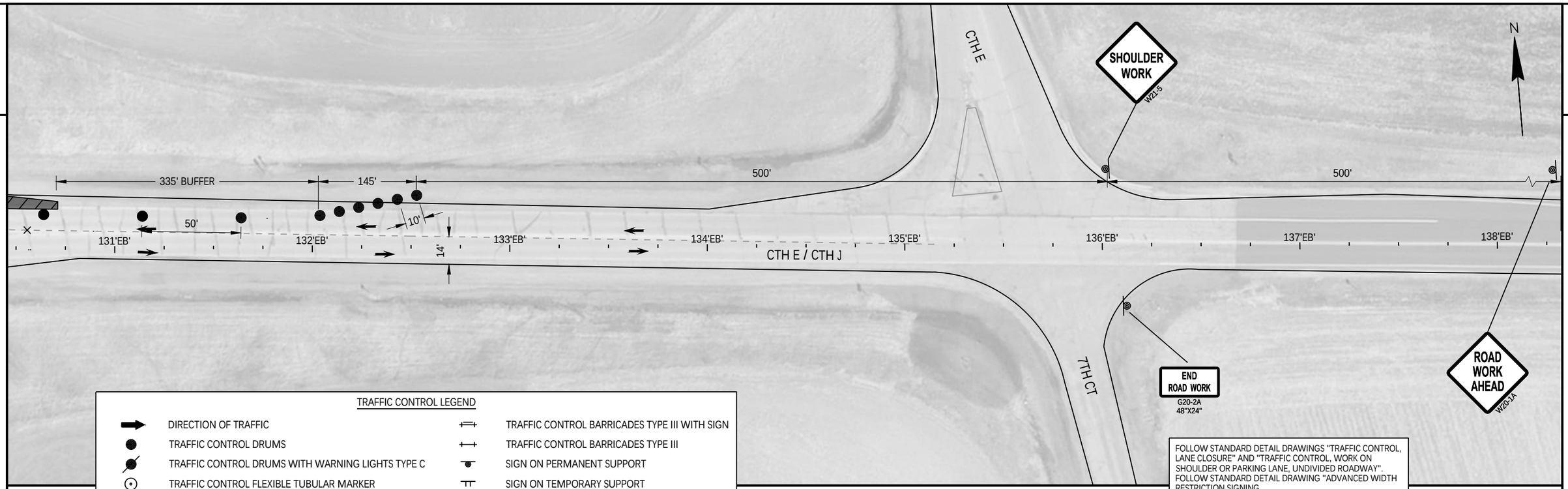
12'

HARRIS CT

PROJECT NO: 1166-04-85	HWY: IH 39	COUNTY: MARQUETTE	TRAFFIC CONTROL - CTH E/J STAGE 1	SHEET 71	E

FILE NAME : G:\00\00093\00093777\CADD\SHEETSPLAN\025100-TC STAGING.DWG
LAYOUT NAME - 025108-tc

PLOT DATE : 5/5/2026 7:46 AM PLOT BY : SHAWN DOLENS PLOT NAME : PLOT SCALE : 1 IN:50 FT



TRAFFIC CONTROL LEGEND

- DIRECTION OF TRAFFIC
- TRAFFIC CONTROL DRUMS
- TRAFFIC CONTROL DRUMS WITH WARNING LIGHTS TYPE C
- TRAFFIC CONTROL FLEXIBLE TUBULAR MARKER
- WORK ZONE
- ASPHALTIC SURFACE TEMPORARY
- COVER SIGN
- TRAFFIC CONTROL BARRICADES TYPE III WITH SIGN
- TRAFFIC CONTROL BARRICADES TYPE III
- SIGN ON PERMANENT SUPPORT
- SIGN ON TEMPORARY SUPPORT
- MARKING REMOVAL LINE OR MASK OUT TAPE
- FLAGS, 16" X 16" MIN. (ORANGE)
- SIGN - TO BE MOVED
- SIGN - TO REMAIN

FOLLOW STANDARD DETAIL DRAWINGS "TRAFFIC CONTROL, LANE CLOSURE" AND "TRAFFIC CONTROL, WORK ON SHOULDER OR PARKING LANE, UNDIVIDED ROADWAY". FOLLOW STANDARD DETAIL DRAWING "ADVANCED WIDTH RESTRICTION SIGNING.

NOTES:

1. ALL SIGNS 48"X48" UNLESS OTHERWISE NOTED

THIS FRAME LEFT INTENTIONALLY BLANK

PROJECT NO: 1166-04-85	HWY: IH 39	COUNTY: MARQUETTE	TRAFFIC CONTROL - CTH E/J STAGE 1	SHEET 72	E

FILE NAME : G:\00\00093\00093777\CADD\SHEETSPLAN\025100-TC STAGING.DWG
LAYOUT NAME - 025109-tc
PLOT DATE : 5/5/2026 7:46 AM PLOT BY : SHAWN DOLENS PLOT NAME : PLOT SCALE : 1 IN:50 FT
WISDOT/CADDS SHEET 44

2

N

END ROAD WORK
G20-2A
48"X24"

ROAD WORK AHEAD
W20-1A

W01-4L

N CHARLES ST

W01-6
48"X24"

101'EB' 102'EB' 103'EB' CTH E / CTH J 104'EB' 105'EB' 106'EB' 107'EB'

15'

25'

63' TAPER

250' 250' 250'

ROAD WORK 500 FT
W20-1D

ROAD WORK 250 FT
W20-1H

FOLLOW STANDARD DETAIL DRAWING "TRAFFIC CONTROL, ADVANCED WARNING SIGNS 40 MPH OR LESS TWO-WAY UNDIVIDED ROAD OPEN TO TRAFFIC" AND "TRAFFIC CONTROL, FULL LANE SHIFT, NON-FREEWAY / EXPRESSWAY OR MULTILANE DIVIDED 45 MPH AND UNDER".
FOLLOW STANDARD DETAIL DRAWING "ADVANCED WIDTH RESTRICTION SIGNING".

NOTES:
1. ALL SIGNS 48"X48" UNLESS OTHERWISE NOTED

TRAFFIC CONTROL LEGEND

DIRECTION OF TRAFFIC	TRAFFIC CONTROL BARRICADES TYPE III WITH SIGN
TRAFFIC CONTROL DRUMS	TRAFFIC CONTROL BARRICADES TYPE III
TRAFFIC CONTROL DRUMS WITH WARNING LIGHTS TYPE C	SIGN ON PERMANENT SUPPORT
TRAFFIC CONTROL FLEXIBLE TUBULAR MARKER	SIGN ON TEMPORARY SUPPORT
WORK ZONE	MARKING REMOVAL LINE OR MASK OUT TAPE
ASPHALTIC SURFACE TEMPORARY	FLAGS, 16" X 16" MIN. (ORANGE)
COVER SIGN	SIGN - TO BE MOVED
	SIGN - TO REMAIN

N

N CHARLES ST

W01-6
48"X24"

63' TAPER

W01-4L

TEMPORARY PAVEMENT MARKING LINE (TAPE),6 INCH WHITE

TEMPORARY PAVEMENT MARKING LINE (TAPE), 6 INCH DOUBLE YELLOW

N PIONEER PARK RD

TEMPORARY MARKING STOP LINE REMOVABLE TAPE 18-INCH

TO AUSTIN 39

M4-5 24"X12"
M1-1 24"X24"
M6-1 21"X21"

105'EB' 106'EB' 107'EB' 108'EB' 109'EB' 110'EB' 111'EB' 112'EB'

50'

13'

15' SPACING, TYP.

25'

15'

STOP
R1-1
36"X36"

W01-6
48"X24"

COVER

LANE CLOSED
R11-2L
48"X30"

CTH E / CTH J

TEMPORARY PAVEMENT MARKING LINE (TAPE), 6 INCH DOUBLE YELLOW

W011-2
48"X48"
W016-7L
24"X12"

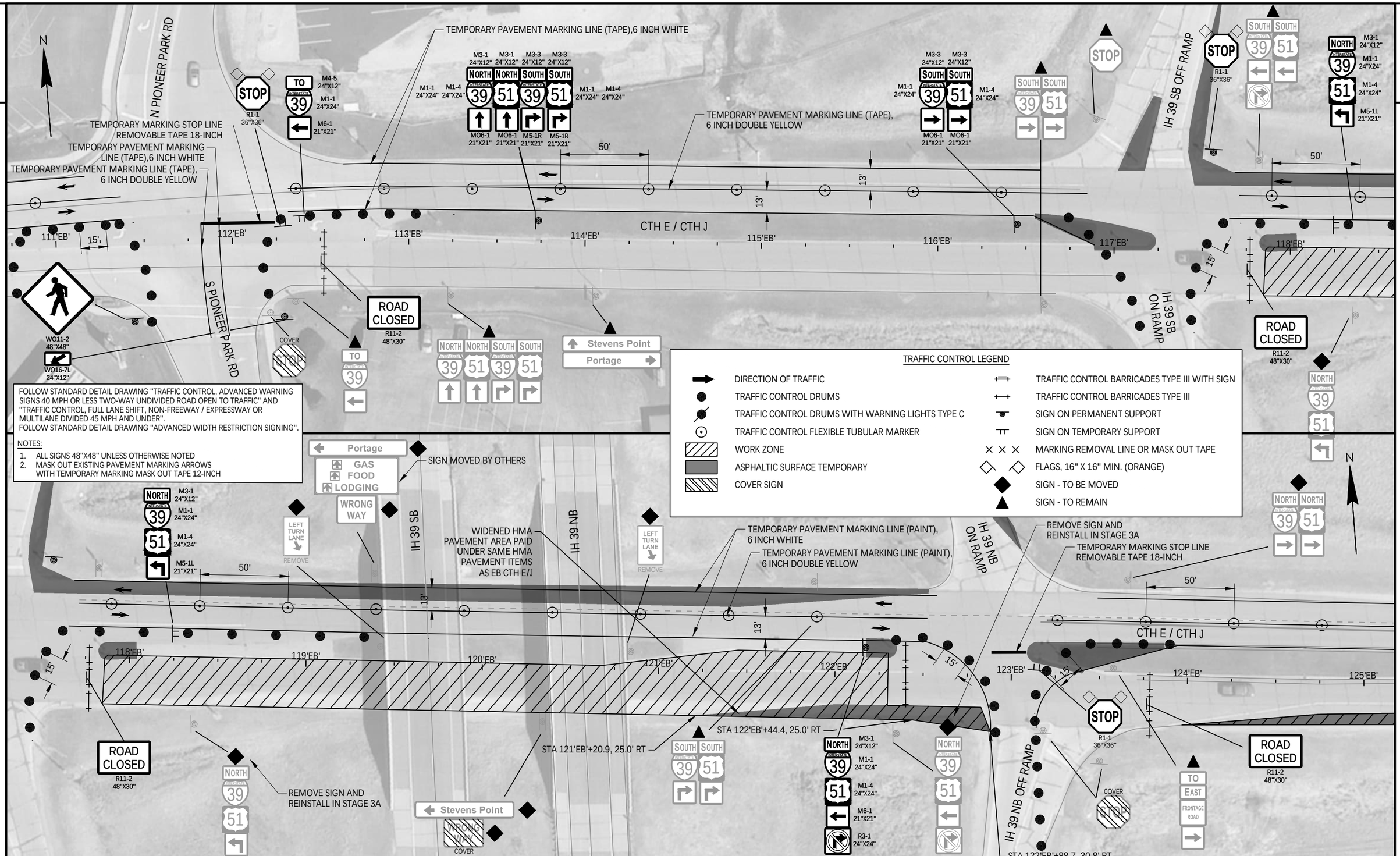
TEMPORARY PAVEMENT MARKING LINE (TAPE),6 INCH WHITE

S PIONEER PARK RD

PROJECT NO: 1166-04-85	HWY: IH 39	COUNTY: MARQUETTE	TRAFFIC CONTROL - CTH E/J STAGE 2A	SHEET 73	E

FILE NAME : G:\00\00093\00093777\CADD\SHEETSPLAN\025100-TC STAGING.DWG
LAYOUT NAME - 025110-tc

PLOT DATE : 5/5/2026 7:46 AM PLOT BY : SHAWN DOLENS PLOT NAME : PLOT SCALE : 1 IN:50 FT



FOLLOW STANDARD DETAIL DRAWING "TRAFFIC CONTROL, ADVANCED WARNING SIGNS 40 MPH OR LESS TWO-WAY UNDIVIDED ROAD OPEN TO TRAFFIC" AND "TRAFFIC CONTROL, FULL LANE SHIFT, NON-FREEWAY / EXPRESSWAY OR MULTILANE DIVIDED 45 MPH AND UNDER".
FOLLOW STANDARD DETAIL DRAWING "ADVANCED WIDTH RESTRICTION SIGNING".

NOTES:

1. ALL SIGNS 48"X48" UNLESS OTHERWISE NOTED
2. MASK OUT EXISTING PAVEMENT MARKING ARROWS WITH TEMPORARY MARKING MASK OUT TAPE 12-INCH

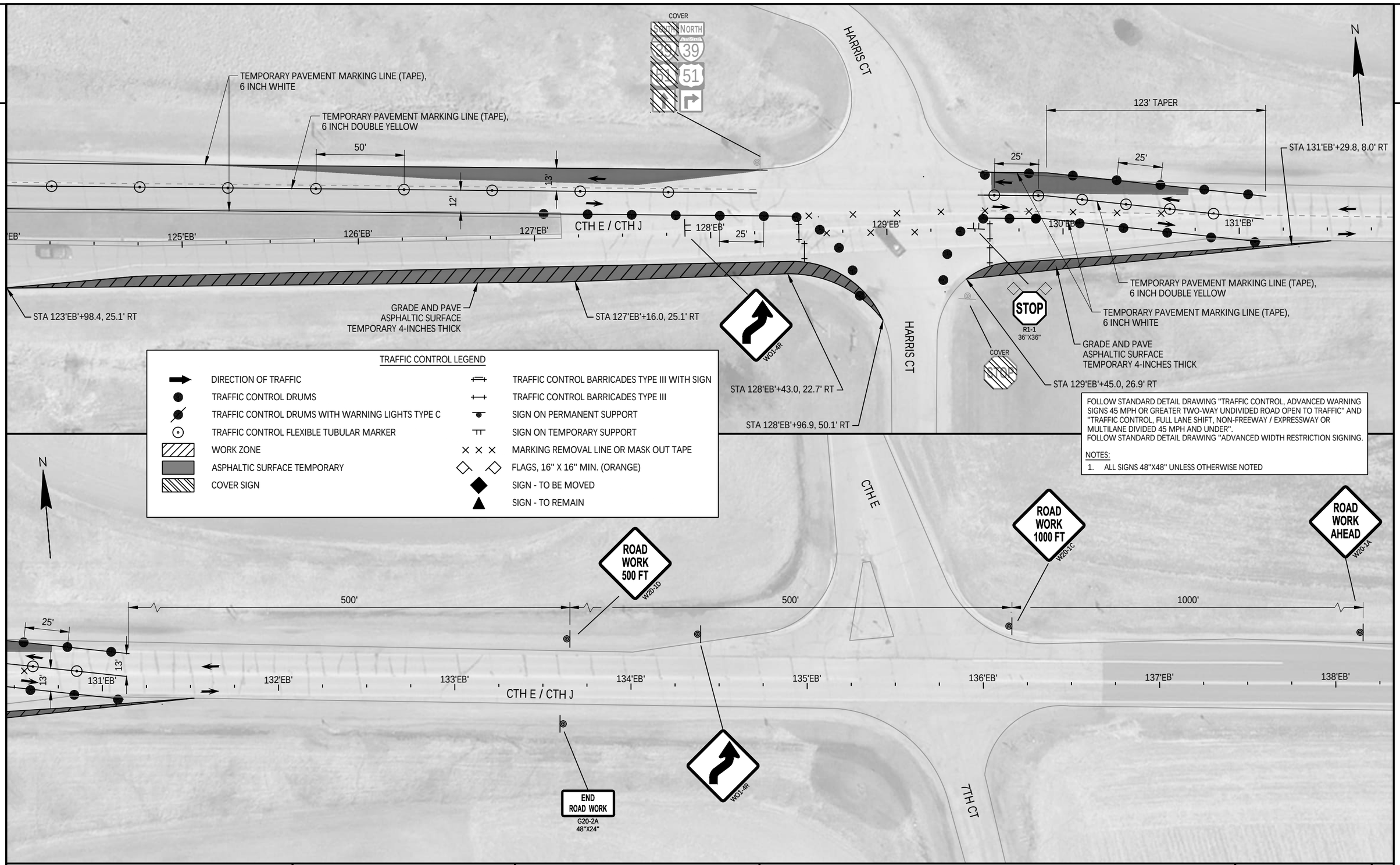
TRAFFIC CONTROL LEGEND

- DIRECTION OF TRAFFIC
- TRAFFIC CONTROL DRUMS
- TRAFFIC CONTROL DRUMS WITH WARNING LIGHTS TYPE C
- TRAFFIC CONTROL FLEXIBLE TUBULAR MARKER
- WORK ZONE
- ASPHALTIC SURFACE TEMPORARY
- COVER SIGN
- TRAFFIC CONTROL BARRICADES TYPE III WITH SIGN
- TRAFFIC CONTROL BARRICADES TYPE III
- SIGN ON PERMANENT SUPPORT
- SIGN ON TEMPORARY SUPPORT
- MARKING REMOVAL LINE OR MASK OUT TAPE
- FLAGS, 16" X 16" MIN. (ORANGE)
- SIGN - TO BE MOVED
- SIGN - TO REMAIN

PROJECT NO: 1166-04-85	HWY: IH 39	COUNTY: MARQUETTE	TRAFFIC CONTROL - CTH E/J STAGE 2A	SHEET 74	E

FILE NAME : G:\00\00093\00093777\CADD\SHEETSPLAN\025100-TC STAGING.DWG
LAYOUT NAME - 025111-tc
PLOT DATE : 5/5/2026 7:47 AM PLOT BY : SHAWN DOLENS PLOT NAME : PLOT SCALE : 1 IN:50 FT

2



PROJECT NO: 1166-04-85	HWY: IH 39	COUNTY: MARQUETTE	TRAFFIC CONTROL - CTH E/J STAGE 2A	SHEET 75	E

FILE NAME : G:\00\00093\00093777\CADD\SHEETSPLAN\025100-TC STAGING.DWG
LAYOUT NAME - 025112-tc

PLOT DATE : 5/5/2026 7:47 AM PLOT BY : SHAWN DOLENS PLOT NAME : PLOT SCALE : 1 IN:50 FT

2

N

END ROAD WORK
G20-2A
48"X24"

W01-4L

RAMP CLOSED AHEAD
W20-53A

N CHARLES ST

101'EB' 102'EB' CTH E / CTH J 103'EB' 104'EB' 105'EB' 106'EB' 107'EB'

15'

12'

250' 250' 250' 63' TAPER

ROAD WORK AHEAD
W20-1A

ROAD WORK 500 FT
W20-1D

ROAD WORK 250 FT
W20-1H

FOLLOW STANDARD DETAIL DRAWING "TRAFFIC CONTROL, ADVANCED WARNING SIGNS 40 MPH OR LESS TWO-WAY UNDIVIDED ROAD OPEN TO TRAFFIC" AND "TRAFFIC CONTROL, FULL LANE SHIFT, NON-FREEWAY / EXPRESSWAY OR MULTILANE DIVIDED 45 MPH AND UNDER".
FOLLOW STANDARD DETAIL DRAWING "ADVANCED WIDTH RESTRICTION SIGNING".

NOTES:

1. ALL SIGNS 48"X48" UNLESS OTHERWISE NOTED

TRAFFIC CONTROL LEGEND

DIRECTION OF TRAFFIC	TRAFFIC CONTROL BARRICADES TYPE III WITH SIGN
TRAFFIC CONTROL DRUMS	TRAFFIC CONTROL BARRICADES TYPE III
TRAFFIC CONTROL DRUMS WITH WARNING LIGHTS TYPE C	SIGN ON PERMANENT SUPPORT
TRAFFIC CONTROL FLEXIBLE TUBULAR MARKER	SIGN ON TEMPORARY SUPPORT
WORK ZONE	MARKING REMOVAL LINE OR MASK OUT TAPE
ASPHALTIC SURFACE TEMPORARY	FLAGS, 16" X 16" MIN. (ORANGE)
COVER SIGN	SIGN - TO BE MOVED
	SIGN - TO REMAIN

N

N PIONEER PARK RD

TEMPORARY PAVEMENT MARKING LINE (TAPE), 6 INCH WHITE

TEMPORARY PAVEMENT MARKING LINE (TAPE), 6 INCH DOUBLE YELLOW

TEMPORARY MARKING STOP LINE REMOVABLE TAPE 18-INCH

TEMPORARY PAVEMENT MARKING LINE (TAPE), 6 INCH DOUBLE YELLOW

50'

13'

STOP
R1-1
36"X36"

WO1-6
48"X24"

63' TAPER

15'

105'EB' 106'EB' 107'EB' 108'EB' 109'EB' 110'EB' 111'EB' 112'EB'

12'

CTH E / CTH J
COVER

LANE CLOSED
R11-2L
48"X30"

COVER SIGNS ON SIGN STRUCTURE

COVER

STOP

SOUTH
M3-3
24"X12"

INTERSTATE
39
M1-1
24"X24"

WO11-2
48"X48"

WO16-7L
24"X12"

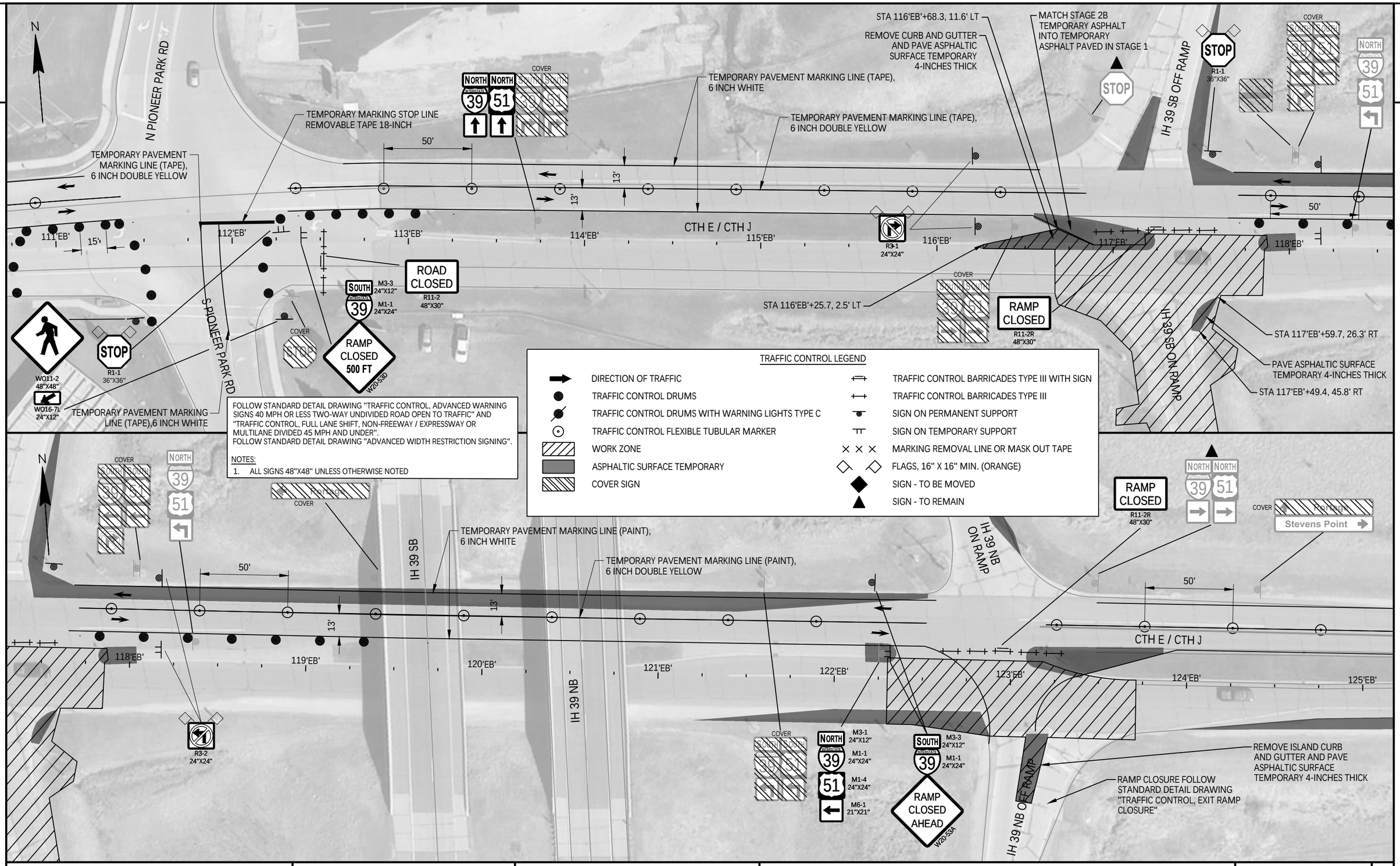
RAMP CLOSED AHEAD
W20-53A

S PIONEER PARK RD

TEMPORARY PAVEMENT MARKING LINE (TAPE),6 INCH WHITE

PROJECT NO: 1166-04-85	HWY: IH 39	COUNTY: MARQUETTE	TRAFFIC CONTROL - CTH E/J STAGE 2B	SHEET 76	E

FILE NAME : G:\00\00093\00093777\CADD\SHEETSPLAN\025100-TC STAGING.DWG
LAYOUT NAME - 025113-tc
PLOT DATE : 5/5/2026 7:47 AM
PLOT BY : SHAWN DOLENS
PLOT NAME :
PLOT SCALE : 1 IN:50 FT
WISDOT/CADDS SHEET 44



PROJECT NO: 1166-04-85	HWY: IH 39	COUNTY: MARQUETTE	TRAFFIC CONTROL - CTH E/J STAGE 2B	SHEET 77	E

FILE NAME : G:\00\00093\00093777\CADD\SHEETSPLAN\025100-TC STAGING.DWG
LAYOUT NAME - 025114-tc
PLOT DATE : 5/5/2026 7:47 AM
PLOT BY : SHAWN DOLENS
PLOT NAME :
PLOT SCALE : 1 IN:50 FT

2

COVER

Stevens Point

TEMPORARY PAVEMENT MARKING LINE (TAPE), 6 INCH WHITE

TEMPORARY PAVEMENT MARKING LINE (TAPE), 6 INCH DOUBLE YELLOW

50'

13'

13'

125'EB'

126'EB'

127'EB'

CTH E / CTH J

128'EB'

25'

129'EB'

HARRIS CT

123' TAPER

25'

25'

130'EB'

131'EB'

TEMPORARY PAVEMENT MARKING LINE (TAPE), 6 INCH DOUBLE YELLOW

TEMPORARY PAVEMENT MARKING LINE (TAPE), 6 INCH WHITE

WO1-4R

HARRIS CT

N

TRAFFIC CONTROL LEGEND

DIRECTION OF TRAFFIC	TRAFFIC CONTROL BARRICADES TYPE III WITH SIGN
TRAFFIC CONTROL DRUMS	TRAFFIC CONTROL BARRICADES TYPE III
TRAFFIC CONTROL DRUMS WITH WARNING LIGHTS TYPE C	SIGN ON PERMANENT SUPPORT
TRAFFIC CONTROL FLEXIBLE TUBULAR MARKER	SIGN ON TEMPORARY SUPPORT
WORK ZONE	MARKING REMOVAL LINE OR MASK OUT TAPE
ASPHALTIC SURFACE TEMPORARY	FLAGS, 16" X 16" MIN. (ORANGE)
COVER SIGN	SIGN - TO BE MOVED
	SIGN - TO REMAIN

FOLLOW STANDARD DETAIL DRAWING "TRAFFIC CONTROL, ADVANCED WARNING SIGNS 45 MPH OR GREATER TWO-WAY UNDIVIDED ROAD OPEN TO TRAFFIC" AND "TRAFFIC CONTROL, FULL LANE SHIFT, NON-FREEWAY / EXPRESSWAY OR MULTILANE DIVIDED 45 MPH AND UNDER".
FOLLOW STANDARD DETAIL DRAWING "ADVANCED WIDTH RESTRICTION SIGNING.

NOTES:

1. ALL SIGNS 48"X48" UNLESS OTHERWISE NOTED

CTH E

ROAD WORK 1000 FT W20-1C

ROAD WORK AHEAD W20-1A

ROAD WORK 500 FT W20-1D

500'

500'

1000'

25'

131'EB'

132'EB'

133'EB'

134'EB'

CTH E / CTH J

135'EB'

136'EB'

137'EB'

138'EB'

END ROAD WORK
G20-2A
48"X24"

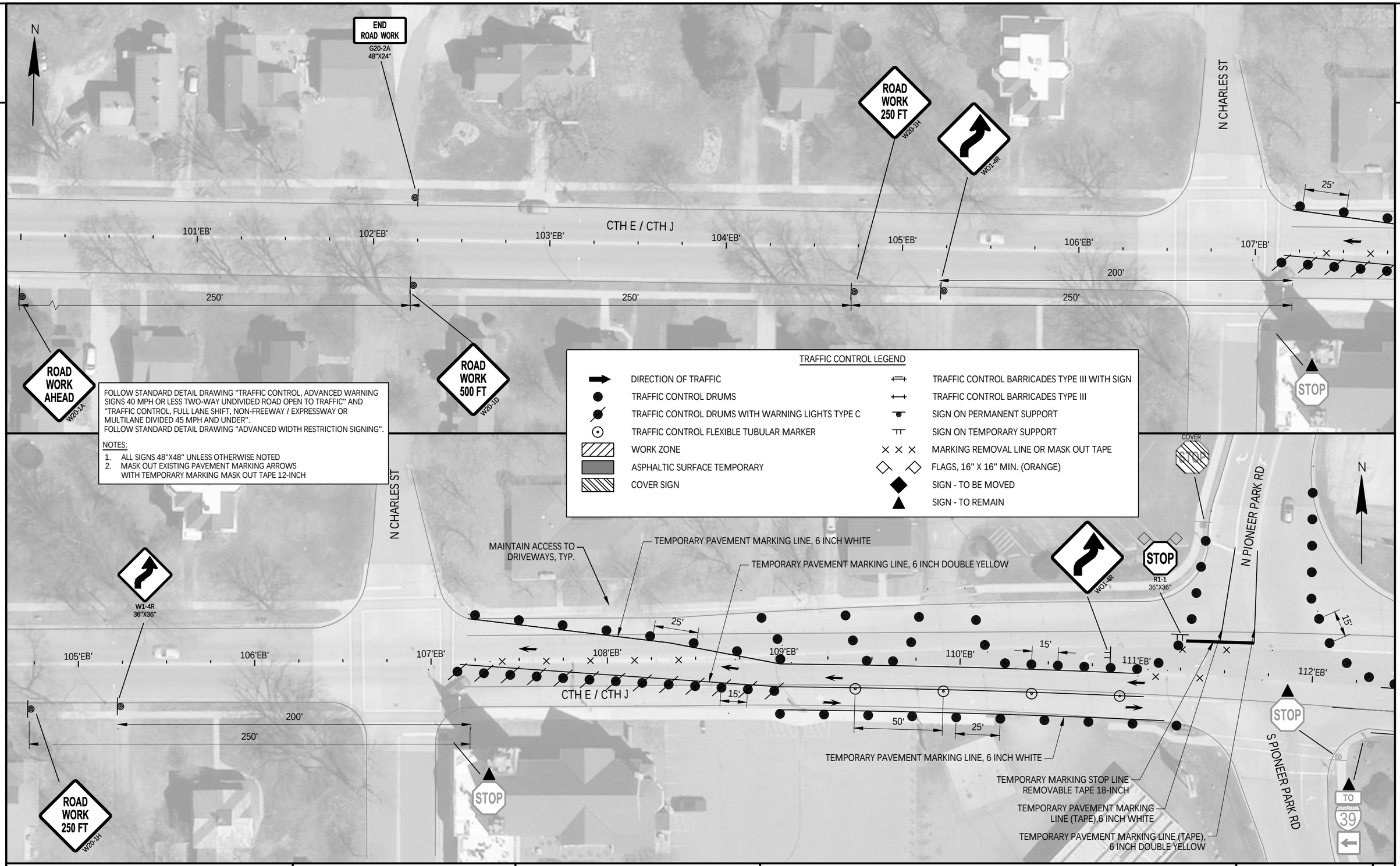
WO1-4R

7TH CT

PROJECT NO: 1166-04-85	HWY: IH 39	COUNTY: MARQUETTE	TRAFFIC CONTROL - CTH E/J STAGE 2B	SHEET 78	E

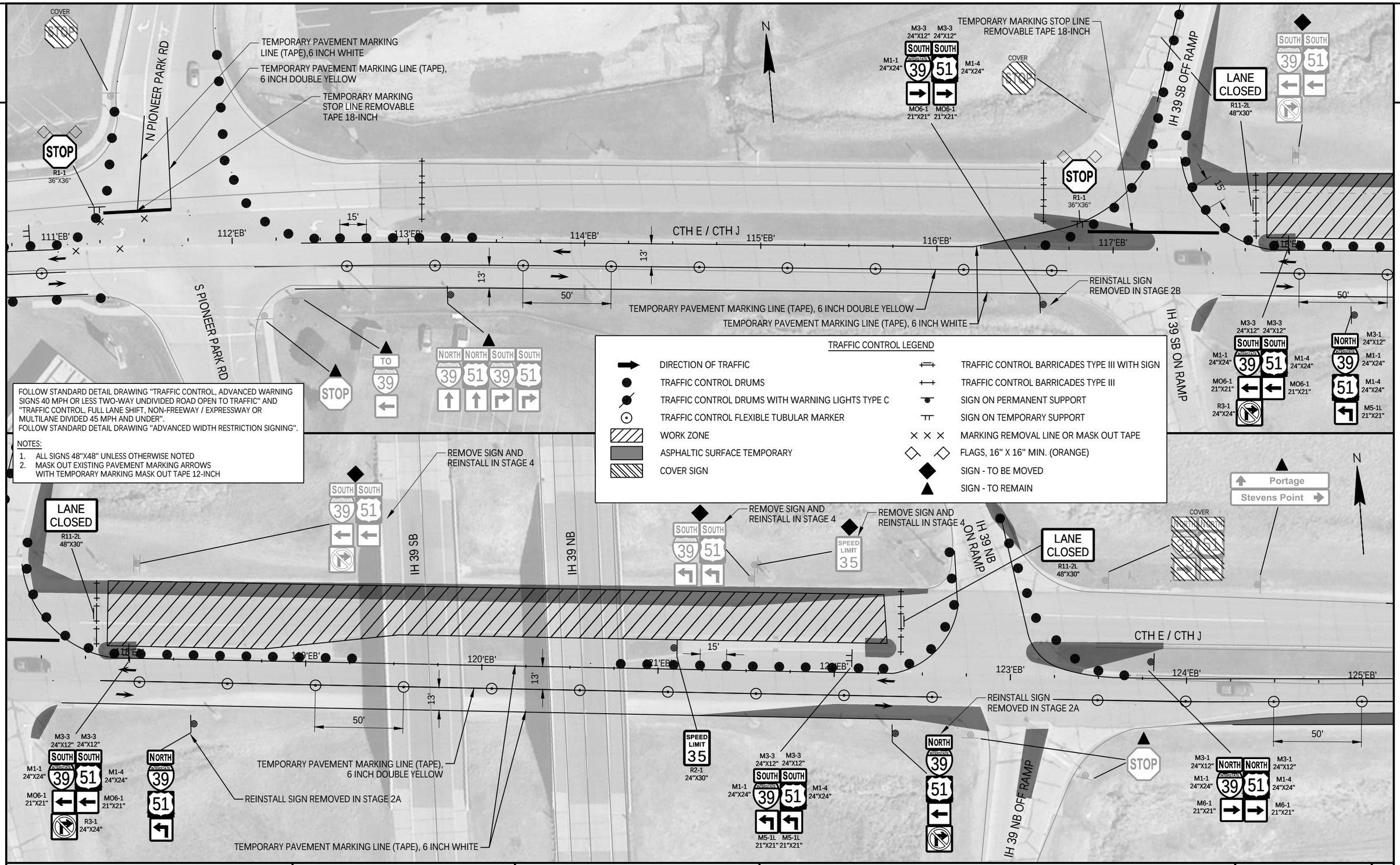
FILE NAME : G:\00\00093\00093777\CADD\SHEETSPLAN\025100-TC STAGING.DWG
LAYOUT NAME - 025115-tc

PLOT DATE : 5/5/2026 7:47 AM PLOT BY : SHAWN DOLENS PLOT NAME : PLOT SCALE : 1 IN:50 FT



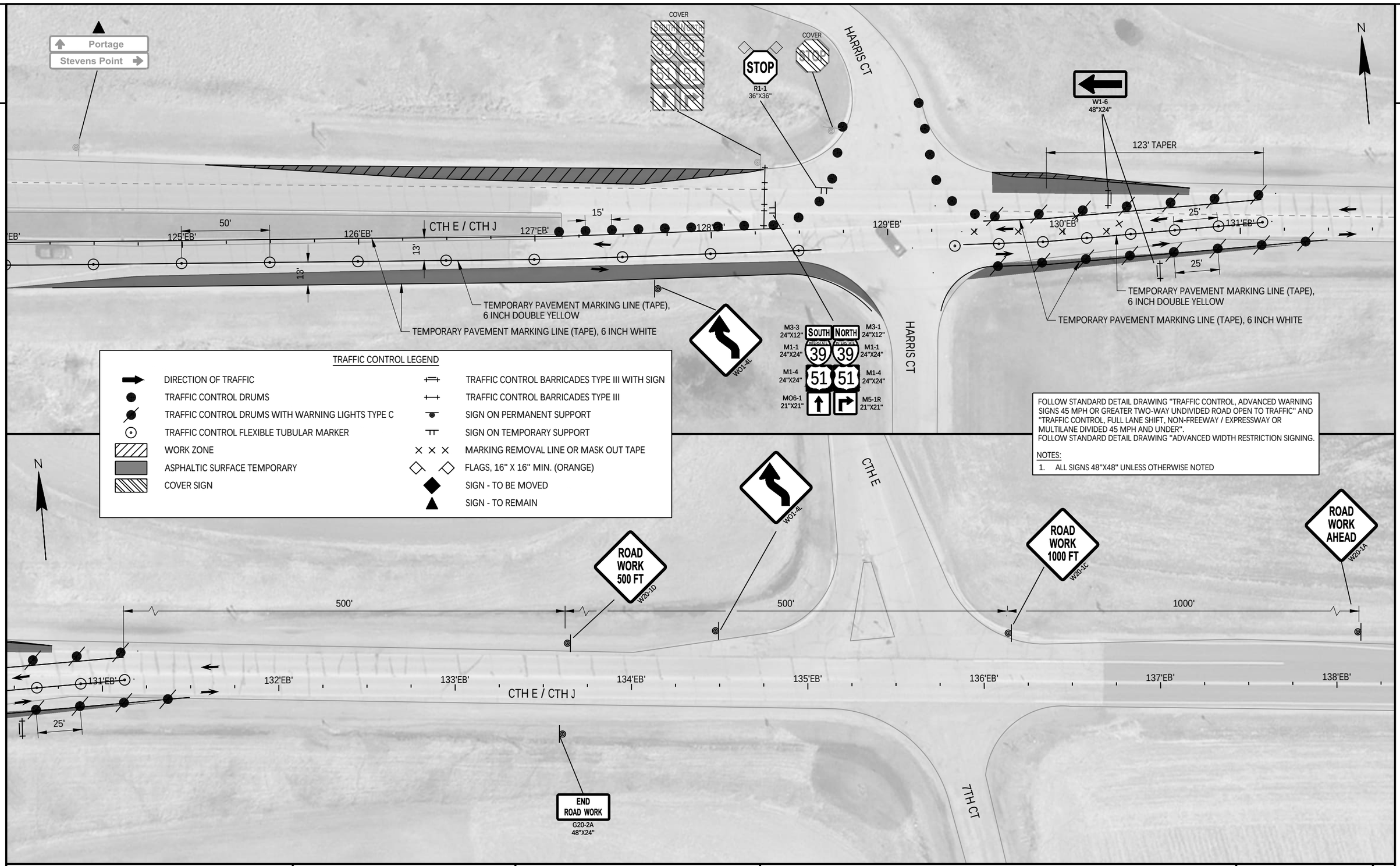
PROJECT NO: 1166-04-85	HWY: IH 39	COUNTY: MARQUETTE	TRAFFIC CONTROL - CTH E/J STAGE 3A	SHEET 79	E

FILE NAME : G:\00\00093\00093777\CADD\SHEETSPLAN\025100-TC STAGING.DWG
LAYOUT NAME - 025116-tc
PLOT DATE : 5/5/2026 7:47 AM
PLOT BY : SHAWN DOLENS
PLOT NAME :
PLOT SCALE : 1 IN:50 FT



PROJECT NO: 1166-04-85	HWY: IH 39	COUNTY: MARQUETTE	TRAFFIC CONTROL - CTH E/J STAGE 3A	SHEET 80	E

FILE NAME : G:\00\00093\00093777\CADD\SHEETSPLAN\025100-TC STAGING.DWG
LAYOUT NAME - 025117-tc
PLOT DATE : 5/5/2026 7:47 AM
PLOT BY : SHAWN DOLENS
PLOT NAME :
PLOT SCALE : 1 IN:50 FT



PROJECT NO: 1166-04-85	HWY: IH 39	COUNTY: MARQUETTE	TRAFFIC CONTROL - CTH E/J STAGE 3A	SHEET 81	E

FILE NAME : G:\00\00093\00093777\CADD\SHEETSPLAN\025100-TC STAGING.DWG
LAYOUT NAME - 025118-tc
PLOT DATE : 5/5/2026 7:47 AM
PLOT BY : SHAWN DOLENS
PLOT NAME :
PLOT SCALE : 1 IN:50 FT

2

END ROAD WORK
G20-2A
48"X24"

ROAD WORK 250 FT
W20-1H

W01-4R

N CHARLES ST

N

25'

101'EB' 102'EB' 103'EB' 104'EB' 105'EB' 106'EB' 107'EB'

CTH E / CTH J

350'

250'

200'

250'

ROAD WORK AHEAD
W20-1A

ROAD WORK 500 FT
W20-1D

STOP

FOLLOW STANDARD DETAIL DRAWING "TRAFFIC CONTROL, ADVANCED WARNING SIGNS 40 MPH OR LESS TWO-WAY UNDIVIDED ROAD OPEN TO TRAFFIC" AND "TRAFFIC CONTROL, FULL LANE SHIFT, NON-FREEWAY / EXPRESSWAY OR MULTILANE DIVIDED 45 MPH AND UNDER".
FOLLOW STANDARD DETAIL DRAWING "ADVANCED WIDTH RESTRICTION SIGNING".

NOTES:
1. ALL SIGNS 48"X48" UNLESS OTHERWISE NOTED

TRAFFIC CONTROL LEGEND

- DIRECTION OF TRAFFIC
- TRAFFIC CONTROL DRUMS
- TRAFFIC CONTROL DRUMS WITH WARNING LIGHTS TYPE C
- TRAFFIC CONTROL FLEXIBLE TUBULAR MARKER
- WORK ZONE
- ASPHALTIC SURFACE TEMPORARY
- COVER SIGN
- TRAFFIC CONTROL BARRICADES TYPE III WITH SIGN
- TRAFFIC CONTROL BARRICADES TYPE III
- SIGN ON PERMANENT SUPPORT
- SIGN ON TEMPORARY SUPPORT
- MARKING REMOVAL LINE OR MASK OUT TAPE
- FLAGS, 16" X 16" MIN. (ORANGE)
- SIGN - TO BE MOVED
- SIGN - TO REMAIN

COVER STOP

N PIONEER PARK RD

N

ROAD WORK 250 FT
W20-1H

W01-4R

STOP
R1-1
36"X36"

25'

105'EB' 106'EB' 107'EB' 108'EB' 109'EB' 110'EB' 111'EB' 112'EB'

15'

13'

13'

50'

CTH E / CTH J

200'

250'

STOP

TEMPORARY PAVEMENT MARKING LINE (TAPE), 6 INCH WHITE

TEMPORARY PAVEMENT MARKING LINE (TAPE), 6 INCH DOUBLE YELLOW

TEMPORARY PAVEMENT MARKING LINE (TAPE), 6 INCH WHITE

TEMPORARY MARKING STOP LINE REMOVABLE TAPE 18-INCH

TEMPORARY PAVEMENT MARKING LINE (TAPE),6 INCH WHITE

TEMPORARY PAVEMENT MARKING LINE (TAPE), 6 INCH DOUBLE YELLOW

S PIONEER PARK RD

TO 39

PROJECT NO: 1166-04-85	HWY: IH 39	COUNTY: MARQUETTE	TRAFFIC CONTROL - CTH E/J STAGE 3B	SHEET 82	E

FILE NAME : G:\00\00093\00093777\CADD\SHEETSPLAN\025100-TC STAGING.DWG
LAYOUT NAME - 025119-tc
PLOT DATE : 5/5/2026 7:47 AM
PLOT BY : SHAWN DOLENS
PLOT NAME :
PLOT SCALE : 1 IN:50 FT
WISDOT/CADDS SHEET 44

2

COVER

STOP

N PIONEER PARK RD

TEMPORARY PAVEMENT MARKING LINE (TAPE),6 INCH WHITE

TEMPORARY PAVEMENT MARKING LINE (TAPE), 6 INCH DOUBLE YELLOW

TEMPORARY MARKING STOP LINE REMOVABLE TAPE 18-INCH

STOP R1-1 36"X36"

15'

15'

111'EB' 112'EB' 113'EB' 114'EB' 115'EB' 116'EB' 117'EB' 118'EB'

CTH E / CTH J

13'

13'

50'

NORTH INTERSTATE 39 M3-1 24"X12"

M1-1 24"X24"

RAMP CLOSED AHEAD W20-53A

IH 39 SB OFF RAMP

N

RAMP CLOSED R11-2R 48"X30"

IH 39 SB ON RAMP

TEMPORARY PAVEMENT MARKING LINE (TAPE), 6 INCH DOUBLE YELLOW

TEMPORARY PAVEMENT MARKING LINE (TAPE), 6 INCH WHITE

S PIONEER PARK RD

STOP

TO INTERSTATE 39

NORTH INTERSTATE 39 NORTH INTERSTATE 51 SOUTH INTERSTATE 39 SOUTH US 51

SOUTH INTERSTATE 39 SOUTH US 51

SOUTH INTERSTATE 39 SOUTH US 51

NORTH INTERSTATE 39 US 51

FOLLOW STANDARD DETAIL DRAWING "TRAFFIC CONTROL, ADVANCED WARNING SIGNS 40 MPH OR LESS TWO-WAY UNDIVIDED ROAD OPEN TO TRAFFIC" AND "TRAFFIC CONTROL, FULL LANE SHIFT, NON-FREEWAY / EXPRESSWAY OR MULTILANE DIVIDED 45 MPH AND UNDER".
FOLLOW STANDARD DETAIL DRAWING "ADVANCED WIDTH RESTRICTION SIGNING".

NOTES:

1. ALL SIGNS 48"X48" UNLESS OTHERWISE NOTED

TRAFFIC CONTROL LEGEND

DIRECTION OF TRAFFIC	TRAFFIC CONTROL BARRICADES TYPE III WITH SIGN
TRAFFIC CONTROL DRUMS	TRAFFIC CONTROL BARRICADES TYPE III
TRAFFIC CONTROL DRUMS WITH WARNING LIGHTS TYPE C	SIGN ON PERMANENT SUPPORT
TRAFFIC CONTROL FLEXIBLE TUBULAR MARKER	SIGN ON TEMPORARY SUPPORT
WORK ZONE	MARKING REMOVAL LINE OR MASK OUT TAPE
ASPHALTIC SURFACE TEMPORARY	FLAGS, 16" X 16" MIN. (ORANGE)
COVER SIGN	SIGN - TO BE MOVED
	SIGN - TO REMAIN

N

IH 39 SB

IH 39 NB

IH 39 NB ON RAMP

R3-2 24"X24"

SPEED LIMIT 35

RAMP CLOSED R11-2R 48"X30"

RAMP CLOSED R11-2R 48"X30"

RAMP CLOSED R11-2R 48"X30"

CTH E / CTH J

118'EB' 119'EB' 120'EB' 121'EB' 122'EB' 123'EB' 124'EB' 125'EB'

13'

13'

50'

13'

13'

50'

TEMPORARY PAVEMENT MARKING LINE (TAPE), 6 INCH DOUBLE YELLOW

TEMPORARY PAVEMENT MARKING LINE (TAPE), 6 INCH WHITE

COVER

COVER

COVER

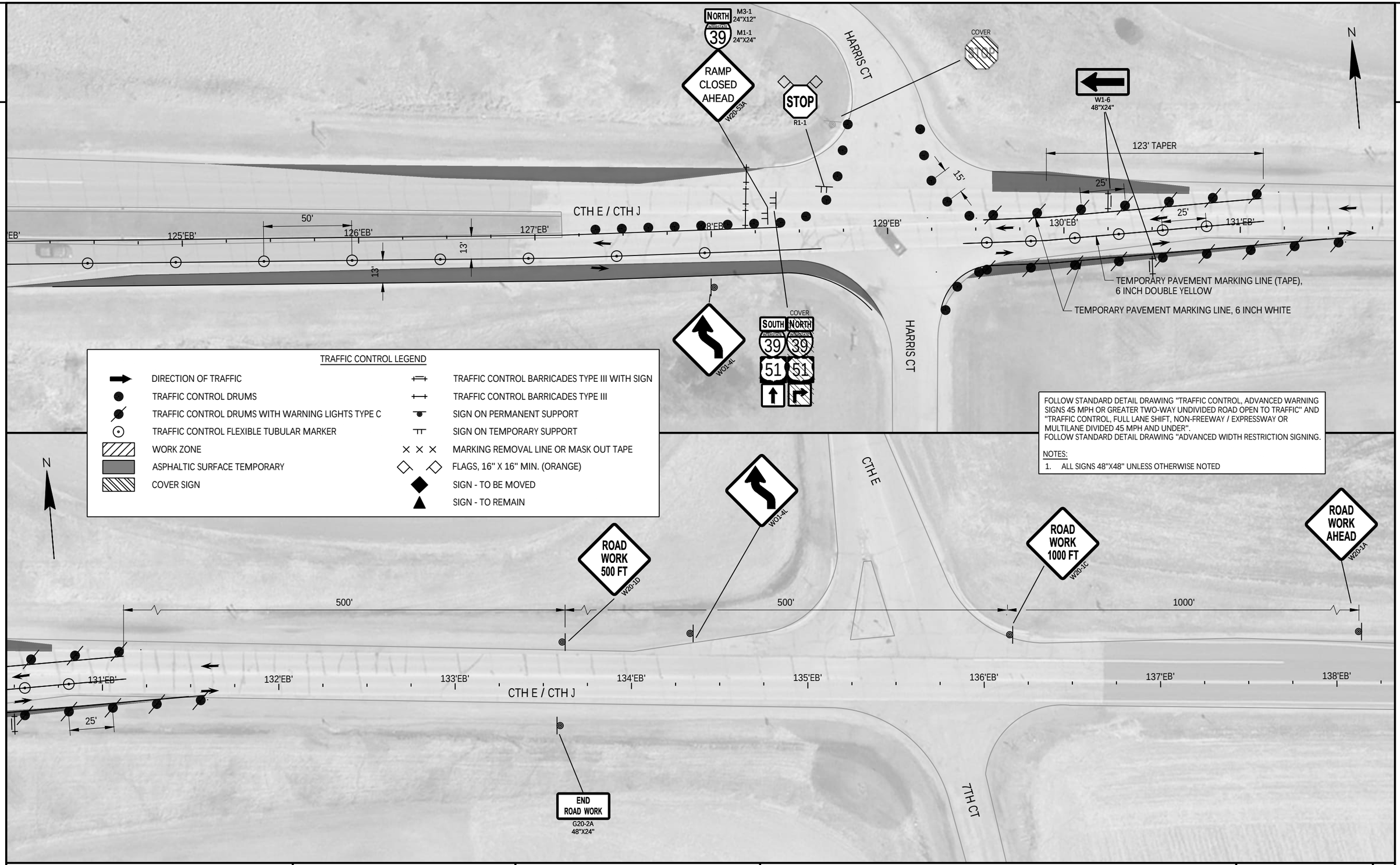
IH 39 NB OFF RAMP

STOP

PROJECT NO: 1166-04-85	HWY: IH 39	COUNTY: MARQUETTE	TRAFFIC CONTROL - CTH E/J STAGE 3B	SHEET 83	E

FILE NAME : G:\00\00093\00093777\CADD\SHEETSPLAN\025100-TC STAGING.DWG
LAYOUT NAME - 025120-tc

PLOT DATE : 5/5/2026 7:47 AM PLOT BY : SHAWN DOLENS PLOT NAME : PLOT SCALE : 1 IN:50 FT



PROJECT NO: 1166-04-85	HWY: IH 39	COUNTY: MARQUETTE	TRAFFIC CONTROL - CTH E/J STAGE 3B	SHEET 84	E

FILE NAME : G:\00\00093\00093777\CADD\SHEETSPLAN\025100-TC STAGING.DWG
LAYOUT NAME - 025121-tc
PLOT DATE : 5/5/2026 7:47 AM
PLOT BY : SHAWN DOLENS
PLOT NAME :
PLOT SCALE : 1 IN:50 FT

2

2

N CHARLES ST

N PIONEER PARK RD

S PIONEER PARK RD

IH 39 SB OFF RAMP

CTH E / CTH J

105'EB' 106'EB' 107'EB' 108'EB' 109'EB' 110'EB' 111'EB' 112'EB' 113'EB' 114'EB' 115'EB' 116'EB' 117'EB' 118'EB'

500'

250'

250'

250'

250'

15'

ROAD WORK AHEAD W20-1A

ROAD WORK 500 FT W20-1D

ROAD WORK 500 FT W20-1D

END ROAD WORK G20-2A 48"X24"

ROAD WORK 250 FT W20-1H

FOLLOW STANDARD DETAIL DRAWING "TRAFFIC CONTROL ADVANCED WARNING SIGNS 40 MPH OR LESS TWO-WAY UNDIVIDED ROAD OPEN TO TRAFFIC" AND "TRAFFIC CONTROL FOR LANE CLOSURE WITH FLAGGING OPERATION". DAYTIME ONLY.
FOLLOW STANDARD DETAIL DRAWING "ADVANCED WIDTH RESTRICTION SIGNING".

NOTES:

1. ALL SIGNS 48"X48" UNLESS OTHERWISE NOTED

TRAFFIC CONTROL LEGEND

- DIRECTION OF TRAFFIC
- TRAFFIC CONTROL DRUMS
- TRAFFIC CONTROL DRUMS WITH WARNING LIGHTS TYPE C
- TRAFFIC CONTROL FLEXIBLE TUBULAR MARKER
- WORK ZONE
- ASPHALTIC SURFACE TEMPORARY
- COVER SIGN
- TRAFFIC CONTROL BARRICADES TYPE III WITH SIGN
- TRAFFIC CONTROL BARRICADES TYPE III
- SIGN ON PERMANENT SUPPORT
- SIGN ON TEMPORARY SUPPORT
- MARKING REMOVAL LINE OR MASK OUT TAPE
- FLAGS, 16" X 16" MIN. (ORANGE)
- SIGN - TO BE MOVED
- SIGN - TO REMAIN

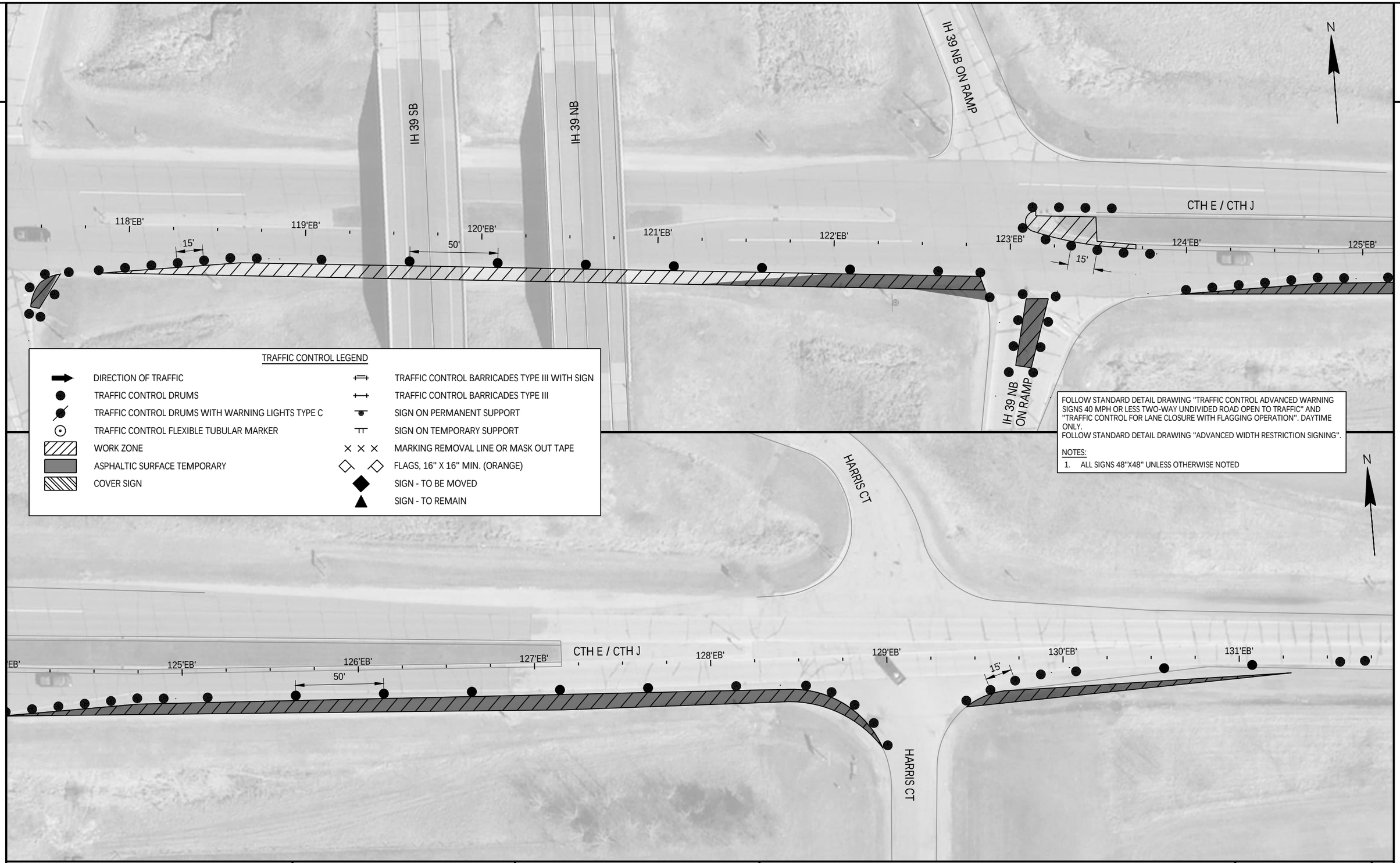
PROJECT NO: 1166-04-85	HWY: IH 39	COUNTY: MARQUETTE	TRAFFIC CONTROL - CTH E/J STAGE 4	SHEET 85	E

FILE NAME : G:\00\00093\00093777\CADD\SHEETSPLAN\025100-TC STAGING.DWG
LAYOUT NAME - 025122-tc

PLOT DATE : 5/5/2026 7:47 AM PLOT BY : SHAWN DOLENS PLOT NAME : PLOT SCALE : 1 IN:50 FT

WISDOT/CADDS SHEET 44

2



TRAFFIC CONTROL LEGEND

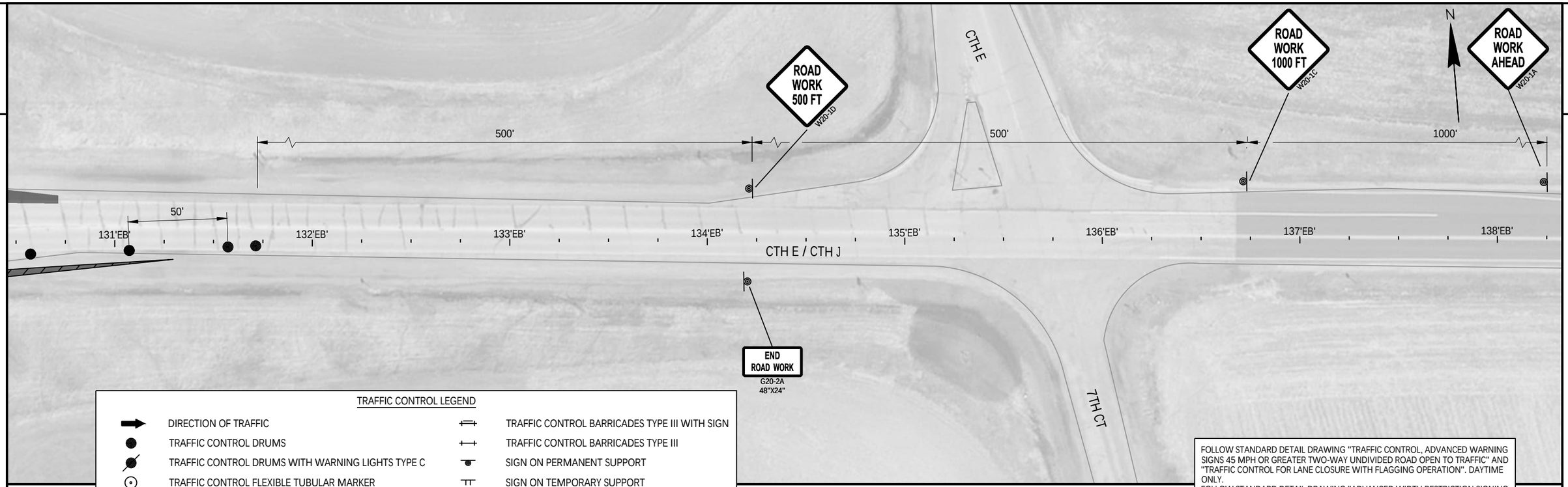
- DIRECTION OF TRAFFIC
- TRAFFIC CONTROL DRUMS
- TRAFFIC CONTROL DRUMS WITH WARNING LIGHTS TYPE C
- TRAFFIC CONTROL FLEXIBLE TUBULAR MARKER
- WORK ZONE
- ASPHALTIC SURFACE TEMPORARY
- COVER SIGN
- TRAFFIC CONTROL BARRICADES TYPE III WITH SIGN
- TRAFFIC CONTROL BARRICADES TYPE III
- SIGN ON PERMANENT SUPPORT
- SIGN ON TEMPORARY SUPPORT
- MARKING REMOVAL LINE OR MASK OUT TAPE
- FLAGS, 16" X 16" MIN. (ORANGE)
- SIGN - TO BE MOVED
- SIGN - TO REMAIN

FOLLOW STANDARD DETAIL DRAWING "TRAFFIC CONTROL ADVANCED WARNING SIGNS 40 MPH OR LESS TWO-WAY UNDIVIDED ROAD OPEN TO TRAFFIC" AND "TRAFFIC CONTROL FOR LANE CLOSURE WITH FLAGGING OPERATION". DAYTIME ONLY.
FOLLOW STANDARD DETAIL DRAWING "ADVANCED WIDTH RESTRICTION SIGNING".

NOTES:

1. ALL SIGNS 48"X48" UNLESS OTHERWISE NOTED

PROJECT NO: 1166-04-85	HWY: IH 39	COUNTY: MARQUETTE	TRAFFIC CONTROL - CTH E/J STAGE 4	SHEET 86	E



TRAFFIC CONTROL LEGEND

DIRECTION OF TRAFFIC	TRAFFIC CONTROL BARRICADES TYPE III WITH SIGN
TRAFFIC CONTROL DRUMS	TRAFFIC CONTROL BARRICADES TYPE III
TRAFFIC CONTROL DRUMS WITH WARNING LIGHTS TYPE C	SIGN ON PERMANENT SUPPORT
TRAFFIC CONTROL FLEXIBLE TUBULAR MARKER	SIGN ON TEMPORARY SUPPORT
WORK ZONE	MARKING REMOVAL LINE OR MASK OUT TAPE
ASPHALTIC SURFACE TEMPORARY	FLAGS, 16" X 16" MIN. (ORANGE)
COVER SIGN	SIGN - TO BE MOVED
	SIGN - TO REMAIN

FOLLOW STANDARD DETAIL DRAWING "TRAFFIC CONTROL, ADVANCED WARNING SIGNS 45 MPH OR GREATER TWO-WAY UNDIVIDED ROAD OPEN TO TRAFFIC" AND "TRAFFIC CONTROL FOR LANE CLOSURE WITH FLAGGING OPERATION". DAYTIME ONLY.
FOLLOW STANDARD DETAIL DRAWING "ADVANCED WIDTH RESTRICTION SIGNING.

NOTES:

1. ALL SIGNS 48"X48" UNLESS OTHERWISE NOTED

THIS FRAME LEFT INTENTIONALLY BLANK

2

END ROAD WORK
G20-2A
48"X24"

(E)

W01-6
48" X 24"
TYPE III BARRICADE

R11-2L
48" X 30"
LANE CLOSED
TYPE III BARRICADE

N

FAWN CT

6TH DR

IH 39 SB

IH 39 NB

TEMPORARY MARKING LINE
REMOVABLE TAPE 6-INCH (WHITE)

TEMPORARY MARKING LINE
REMOVABLE TAPE 6-INCH (YELLOW)

245' TAPER

125'

1000'

12'

4'

7'

50'
(TYP.)

100' (TYP.)

200'

800'

736'SB' 737'SB' 738'SB' 739'SB' 740'SB' 741'SB' 742'SB' 743'SB' 744'SB' 745'SB' 746'SB' 747'SB' 748'SB' 749'SB' 750'SB' 751'SB'

FOLLOW STANDARD DETAIL DRAWINGS "TRAFFIC CONTROL, FULL LANE SHIFT, MULTI-LANE DIVIDED 50 MPH AND OVER", "TRAFFIC CONTROL, PARTIAL LANE SHIFT MULTILANE DIVIDED 50 MPH AND GREATER", "TRAFFIC CONTROL, LANE CLOSURE DIGITAL SPEED REDUCTION SYSTEM", AND "TRAFFIC CONTROL, LANE CLOSURE, BASIC TRAFFIC QUEUE WARNING SYSTEM".

NOTES:

1. ALL SIGNS 48"X48" UNLESS OTHERWISE NOTED

TRAFFIC CONTROL LEGEND

DIRECTION OF TRAFFIC	TRAFFIC CONTROL BARRICADES TYPE III WITH SIGN
TRAFFIC CONTROL DRUMS	TRAFFIC CONTROL BARRICADES TYPE III
TRAFFIC CONTROL DRUMS WITH WARNING LIGHTS TYPE C	SIGN ON PERMANENT SUPPORT
WORK ZONE	SIGN ON PERMANENT SUPPORTS
MARKING REMOVAL LINE	CONNECTED ARROW BOARD
SPEED LIMIT XX DIGITAL SPEED LIMIT TRAILER (DSLT)	FBS FLASHING BEACON SIGNS
	(S) WZ START LOCATION MARKER
	(E) WZ END LOCATION MARKER

N

W01-4L
55 MPH
W013-1
36"X36"

TEMPORARY MARKING LINE
REMOVABLE TAPE 6-INCH (WHITE)

TEMPORARY MARKING LINE
REMOVABLE TAPE 6-INCH (YELLOW)

6TH DR

1000'

245' TAPER

500'

840' TAPER

12'

4'

7'

100' (TYP.)

800'

752'SB' 753'SB' 754'SB' 755'SB' 756'SB' 757'SB' 758'SB' 759'SB' 760'SB' 761'SB' 762'SB' 763'SB' 764'SB' 765'SB' 766'SB' 767'SB'

IH 39 SB

IH 39 NB

50'
(TYP.)

TEMPORARY MARKING LINE
REMOVABLE TAPE 6-INCH (YELLOW)

W01-6
48" X 24"
TYPE III BARRICADE

W01-4R
55 MPH
W013-1
36"X36"

CTH M

PROJECT NO: 1166-04-85	HWY: IH 39	COUNTY: MARQUETTE	TRAFFIC CONTROL - STRUCTURE B-39-0010 - STAGE 1A	SHEET 88	E

FILE NAME : G:\00\00093\00093777\CADD\SHEETSPLAN\025102-TC STAGING I-39.DWG
LAYOUT NAME - 025125-tc 746 1A
PLOT DATE : 5/5/2026 9:17 AM PLOT BY : SHAWN DOLENS PLOT NAME : PLOT SCALE : 1 IN:100 FT
WISDOT/CADDS SHEET 44

2

N

1000'

1600'

500'

840' TAPER

TEMPORARY MARKING LINE
REMOVABLE TAPE 6-INCH (YELLOW)

767'SB' 768'SB' 769'SB' 770'SB' 771'SB' 772'SB' 773'SB' 774'SB' 775'SB' 776'SB' 777'SB' 778'SB' 779'SB' 780'SB' 781'SB' 782'SB'

50'
(TYP.)

IH 39 SB

IH 39 NB

CTH M

W04-2L

TRAFFIC CONTROL LEGEND

DIRECTION OF TRAFFIC	TRAFFIC CONTROL BARRICADES TYPE III WITH SIGN
TRAFFIC CONTROL DRUMS	TRAFFIC CONTROL BARRICADES TYPE III
TRAFFIC CONTROL DRUMS WITH WARNING LIGHTS TYPE C	SIGN ON PERMANENT SUPPORT
WORK ZONE	SIGN ON PERMANENT SUPPORTS
MARKING REMOVAL LINE	CONNECTED ARROW BOARD
DIGITAL SPEED LIMIT TRAILER (DSLT)	FLASHING BEACON SIGNS
	(S) WZ START LOCATION MARKER
	(E) WZ END LOCATION MARKER

FOLLOW STANDARD DETAIL DRAWINGS "TRAFFIC CONTROL, FULL LANE SHIFT, MULTI-LANE DIVIDED 50 MPH AND OVER", "TRAFFIC CONTROL, PARTIAL LANE SHIFT MULTILANE DIVIDED 50 MPH AND GREATER", "TRAFFIC CONTROL, LANE CLOSURE DIGITAL SPEED REDUCTION SYSTEM", AND "TRAFFIC CONTROL, LANE CLOSURE, BASIC TRAFFIC QUEUE WARNING SYSTEM".

NOTES:

1. ALL SIGNS 48"X48" UNLESS OTHERWISE NOTED

N

1600'

500'

SPEED LIMIT XX

2600'

500'

VARIES

FBS

FBS

FBS

782'SB' 783'SB' 784'SB' 785'SB' 786'SB' 787'SB' 788'SB' 789'SB' 790'SB' 791'SB' 792'SB' 793'SB' 794'SB' 795'SB' 796'SB' 797'SB'

IH 39 SB

IH 39 NB

CTH M

(S)

LEFT LANE CLOSED 1/2 MILE
W20-5SG

WORK ZONE
NO HANDHELD PHONES WHILE DRIVING
G20-68
102"X66"

ROAD WORK 1 MILE
W20-1F

PROJECT NO: 1166-04-85	HWY: IH 39	COUNTY: MARQUETTE	TRAFFIC CONTROL - STRUCTURE B-39-0010 - STAGE 1A	SHEET 89	E

FILE NAME : G:\00\00093\00093777\CADD\SHEETSPLAN\025102-TC STAGING I-39.DWG
LAYOUT NAME - 025126-tc 746 1A

PLOT DATE : 5/5/2026 9:17 AM PLOT BY : SHAWN DOLENS PLOT NAME : PLOT SCALE : 1 IN:100 FT

WISDOT/CADDS SHEET 44

2

END ROAD WORK
G20-2A
48"X24"

(E)

IH 39 SB

736'SB' 737'SB' 738'SB' 739'SB' 740'SB' 741'SB' 742'SB' 743'SB' 744'SB' 745'SB' 746'SB' 747'SB' 748'SB' 749'SB' 750'SB' 751'SB'

50' (TYP.)

TEMPORARY MARKING LINE
REMOVABLE TAPE 6-INCH (WHITE)

TEMPORARY MARKING LINE
REMOVABLE TAPE 6-INCH (YELLOW)

1000'

100' (TYP.)

70'

140' TAPER

200'

800'

IH 39 NB

WO1-6
48" X 24"

TYPE III BARRICADE

FAWN CT

R11-2L
48" X 30"

LANE CLOSED

TYPE III BARRICADE

WO1-4R

55 MPH

WO13-1
36"X36"

6TH DR

FOLLOW STANDARD DETAIL DRAWINGS "TRAFFIC CONTROL, FULL LANE SHIFT, MULTI-LANE DIVIDED 50 MPH AND OVER", "TRAFFIC CONTROL, PARTIAL LANE SHIFT MULTILANE DIVIDED 50 MPH AND GREATER", "TRAFFIC CONTROL, LANE CLOSURE DIGITAL SPEED REDUCTION SYSTEM", AND "TRAFFIC CONTROL, LANE CLOSURE, BASIC TRAFFIC QUEUE WARNING SYSTEM".

NOTES:

1. ALL SIGNS 48"X48" UNLESS OTHERWISE NOTED

TRAFFIC CONTROL LEGEND

DIRECTION OF TRAFFIC	TRAFFIC CONTROL BARRICADES TYPE III WITH SIGN
TRAFFIC CONTROL DRUMS	TRAFFIC CONTROL BARRICADES TYPE III
TRAFFIC CONTROL DRUMS WITH WARNING LIGHTS TYPE C	SIGN ON PERMANENT SUPPORT
WORK ZONE	SIGN ON PERMANENT SUPPORTS
MARKING REMOVAL LINE	CONNECTED ARROW BOARD
DIGITAL SPEED LIMIT TRAILER (DSLT)	FLASHING BEACON SIGNS
	(S) WZ START LOCATION MARKER
	(E) WZ END LOCATION MARKER

N

R11-2L
48" X 30"

LANE CLOSED

TYPE III BARRICADE

WO1-6
48" X 24"

TYPE III BARRICADE

WO1-4L

55 MPH

WO13-1
36"X36"

6TH DR

TEMPORARY MARKING LINE
REMOVABLE TAPE 6-INCH (WHITE)

TEMPORARY MARKING LINE
REMOVABLE TAPE 6-INCH (YELLOW)

752'SB' 753'SB' 754'SB' 755'SB' 756'SB' 757'SB' 758'SB' 759'SB' 760'SB' 761'SB' 762'SB' 763'SB' 764'SB' 765'SB' 766'SB' 767'SB'

IH 39 SB

50' (TYP.)

TEMPORARY MARKING LINE
REMOVABLE TAPE 6-INCH (WHITE)

100' (TYP.)

800'

140' TAPER

500'

840' TAPER

IH 39 NB

CTH M

PROJECT NO: 1166-04-85	HWY: IH 39	COUNTY: MARQUETTE	TRAFFIC CONTROL - STRUCTURE B-39-0010 - STAGE 1B	SHEET 90	E

FILE NAME : G:\00\00093\00093777\CADD\SHEETSPLAN\025102-TC STAGING I-39.DWG
LAYOUT NAME - 025127-tc 746 1B

PLOT DATE : 5/5/2026 9:17 AM PLOT BY : SHAWN DOLENS PLOT NAME : PLOT SCALE : 1 IN:100 FT

2

2

N

TEMPORARY MARKING LINE
REMOVABLE TAPE 6-INCH (WHITE)

50'
(TYP.)

W04-2R

500'

767'SB' 768'SB' 769'SB' 770'SB' 771'SB' 772'SB' 773'SB' IH 39 SB 774'SB' 775'SB' 776'SB' 777'SB' 778'SB' 779'SB' 780'SB' 781'SB' 782'SB'

840' TAPER

1000'

1600'

IH 39 NB

CTH M

FOLLOW STANDARD DETAIL DRAWINGS "TRAFFIC CONTROL, FULL LANE SHIFT, MULTI-LANE DIVIDED 50 MPH AND OVER", "TRAFFIC CONTROL, PARTIAL LANE SHIFT MULTILANE DIVIDED 50 MPH AND GREATER", "TRAFFIC CONTROL, LANE CLOSURE DIGITAL SPEED REDUCTION SYSTEM", AND "TRAFFIC CONTROL, LANE CLOSURE, BASIC TRAFFIC QUEUE WARNING SYSTEM".

NOTES:

1. ALL SIGNS 48"X48" UNLESS OTHERWISE NOTED

TRAFFIC CONTROL LEGEND

DIRECTION OF TRAFFIC	TRAFFIC CONTROL BARRICADES TYPE III WITH SIGN
TRAFFIC CONTROL DRUMS	TRAFFIC CONTROL BARRICADES TYPE III
TRAFFIC CONTROL DRUMS WITH WARNING LIGHTS TYPE C	SIGN ON PERMANENT SUPPORT
WORK ZONE	SIGN ON PERMANENT SUPPORTS
MARKING REMOVAL LINE	CONNECTED ARROW BOARD
DIGITAL SPEED LIMIT TRAILER (DSLT)	FBS FLASHING BEACON SIGNS
	(S) WZ START LOCATION MARKER
	(E) WZ END LOCATION MARKER

N

500'

SPEED LIMIT XX

RIGHT LANE CLOSED 1/2 MILE
W20-5G

ROAD WORK 1 MILE
W20-1F

(S)

FBS FBS FBS

782'SB' 783'SB' 784'SB' 785'SB' 786'SB' 787'SB' 788'SB' IH 39 SB 789'SB' 790'SB' 791'SB' 792'SB' 793'SB' 794'SB' 795'SB' 796'SB' 797'SB'

1600'

2600'

500'

VARIES

IH 39 NB

CTH M

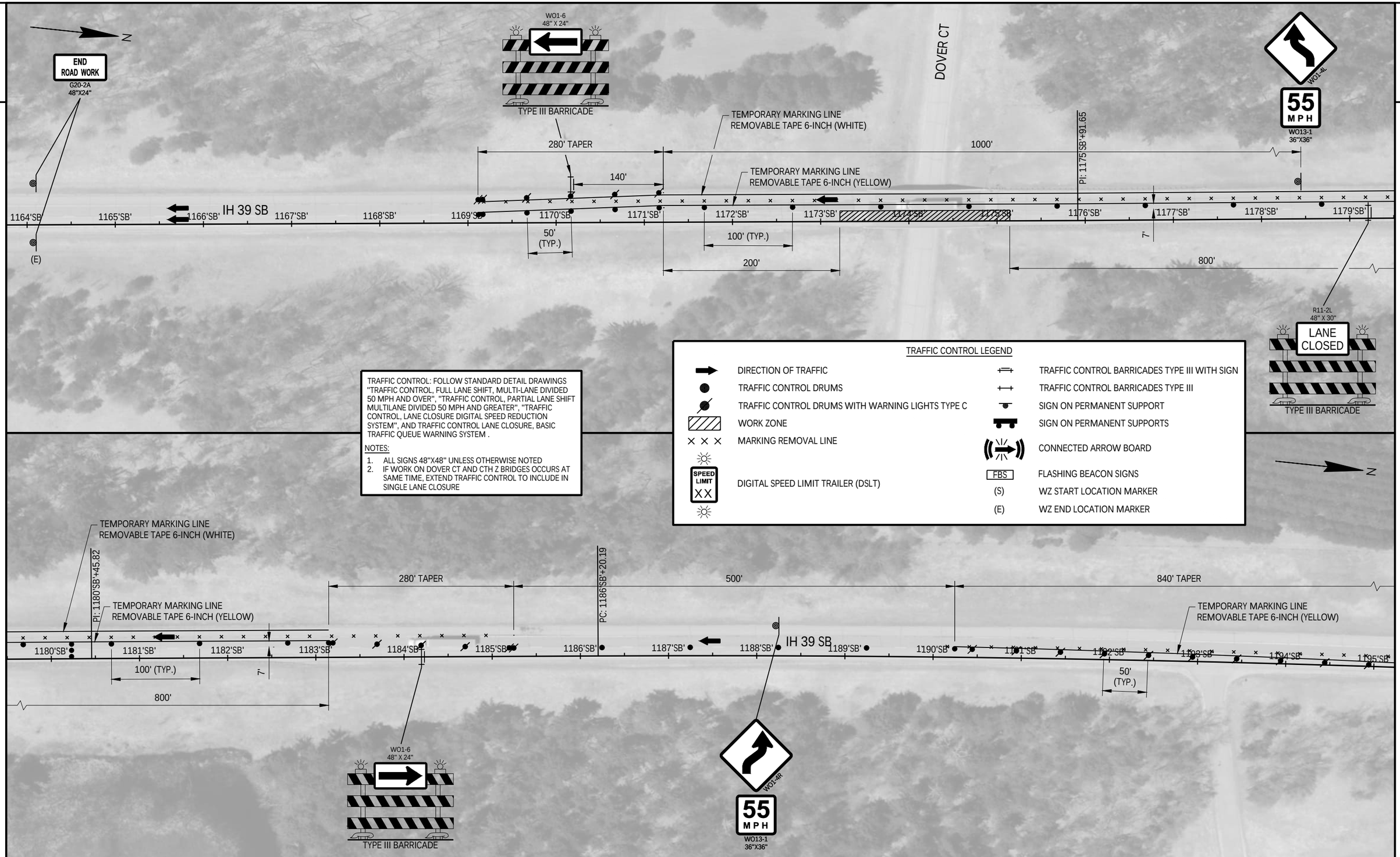
WORK ZONE
NO HANDHELD PHONES WHILE DRIVING
G20-68
102"X66"

PROJECT NO: 1166-04-85	HWY: IH 39	COUNTY: MARQUETTE	TRAFFIC CONTROL - STRUCTURE B-39-0010 - STAGE 1B	SHEET 91	E

FILE NAME : G:\00\00093\00093777\CADD\SHEETSPLAN\025102-TC STAGING I-39.DWG
LAYOUT NAME - 025128-tc 746 1B

PLOT DATE : 5/5/2026 9:17 AM PLOT BY : SHAWN DOLENS PLOT NAME : PLOT SCALE : 1 IN:100 FT

WISDOT/CADDS SHEET 44



PROJECT NO: 1166-04-85	HWY: IH 39	COUNTY: MARQUETTE	TRAFFIC CONTROL - STRUCTURE B-39-0033 - STAGE 1A	SHEET 92	E

FILE NAME : G:\00\00093\00093777\CADD\SHEETSPLAN\025102-TC STAGING I-39.DWG
LAYOUT NAME - 025129-tc 1174 1A
PLOT DATE : 5/5/2026 9:18 AM PLOT BY : SHAWN DOLENS PLOT NAME : PLOT SCALE : 1 IN:100 FT

2

N

1000'

1600'

840' TAPER

500'

TEMPORARY MARKING LINE
REMOVABLE TAPE 6-INCH (YELLOW)

PT: 1206'SB'+23.00

1195'SB' 1196'SB' 1197'SB' 1198'SB' 1199'SB' IH 39 SB 1200'SB' 1201'SB' 1202'SB' 1203'SB' 1204'SB' 1205'SB' 1206'SB' 1207'SB' 1208'SB' 1209'SB' 1210'SB'

50'
(TYP.)

W4-2L

TRAFFIC CONTROL LEGEND

DIRECTION OF TRAFFIC	TRAFFIC CONTROL BARRICADES TYPE III WITH SIGN
TRAFFIC CONTROL DRUMS	TRAFFIC CONTROL BARRICADES TYPE III
TRAFFIC CONTROL DRUMS WITH WARNING LIGHTS TYPE C	SIGN ON PERMANENT SUPPORT
WORK ZONE	SIGN ON PERMANENT SUPPORTS
MARKING REMOVAL LINE	CONNECTED ARROW BOARD
DIGITAL SPEED LIMIT TRAILER (DLT)	FLASHING BEACON SIGNS
	(S) WZ START LOCATION MARKER
	(E) WZ END LOCATION MARKER

TRAFFIC CONTROL: FOLLOW STANDARD DETAIL DRAWINGS "TRAFFIC CONTROL, FULL LANE SHIFT, MULTI-LANE DIVIDED 50 MPH AND OVER", "TRAFFIC CONTROL, PARTIAL LANE SHIFT MULTILANE DIVIDED 50 MPH AND GREATER", "TRAFFIC CONTROL, LANE CLOSURE DIGITAL SPEED REDUCTION SYSTEM", AND TRAFFIC CONTROL LANE CLOSURE, BASIC TRAFFIC QUEUE WARNING SYSTEM .

NOTES:

1. ALL SIGNS 48"X48" UNLESS OTHERWISE NOTED
2. IF WORK ON DOVER CT AND CTH Z BRIDGES OCCURS AT SAME TIME, EXTEND TRAFFIC CONTROL TO INCLUDE IN SINGLE LANE CLOSURE

N

1600'

2600'

500'

VARIES

500'

SPEED LIMIT XX

1210'SB' 1211'SB' 1212'SB' 1213'SB' 1214'SB' 1215'SB' 1216'SB' IH 39 SB 1217'SB' 1218'SB' 1219'SB' 1220'SB' 1221'SB' 1222'SB' 1223'SB' 1224'SB' 1225'SB'

FBS FBS FBS

(S)

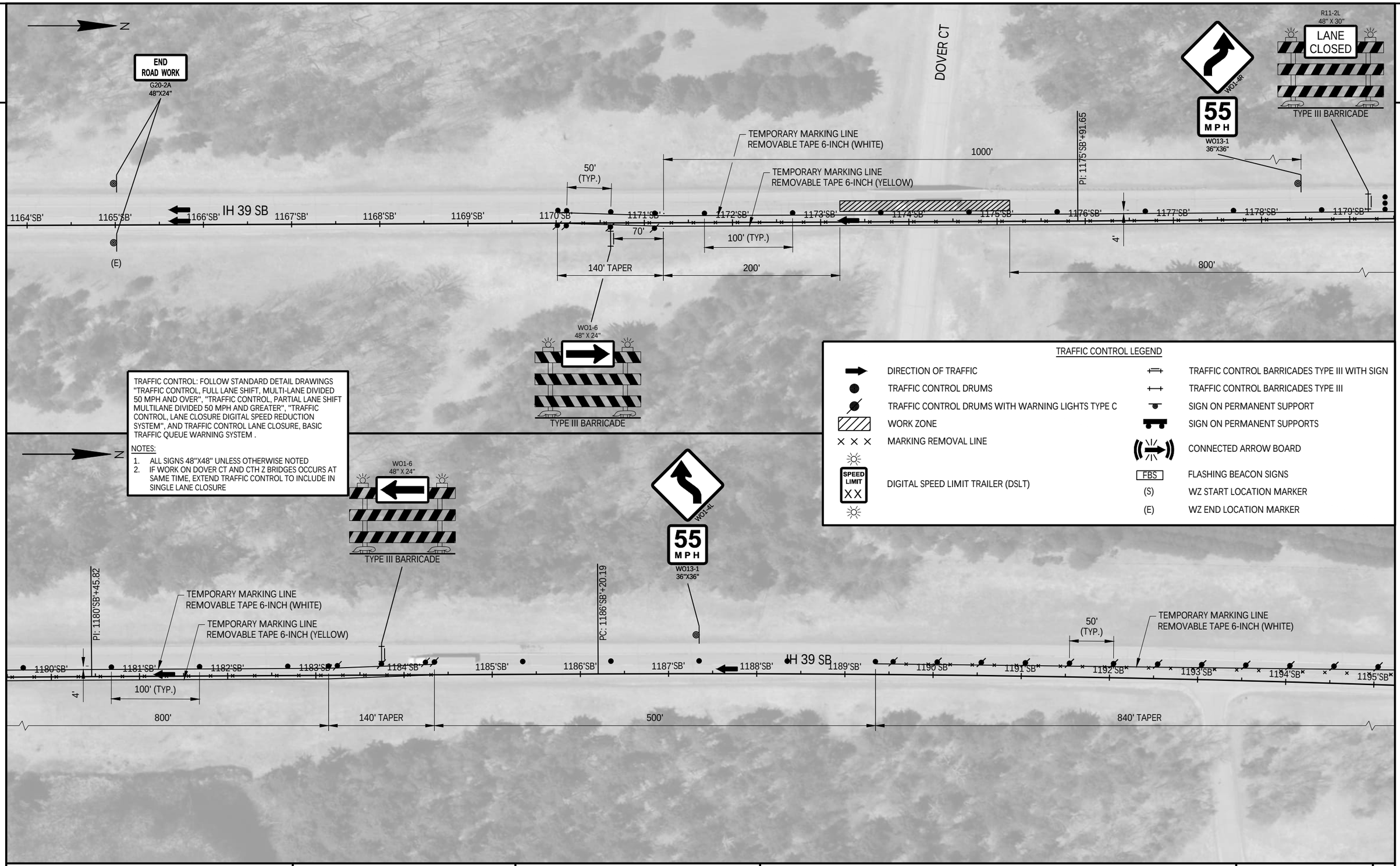
ROAD WORK 1/2 MILE W20-1G

WORK ZONE
NO HANDHELD PHONES WHILE DRIVING
G20-68
102"X66"

ROAD WORK 1 MILE W20-1F

IH 39 NB

PROJECT NO: 1166-04-85	HWY: IH 39	COUNTY: MARQUETTE	TRAFFIC CONTROL - STRUCTURE B-39-0033 - STAGE 1A	SHEET 93	E



PROJECT NO: 1166-04-85	HWY: IH 39	COUNTY: MARQUETTE	TRAFFIC CONTROL - STRUCTURE B-39-0033 - STAGE 1B	SHEET 94	E

FILE NAME : G:\00\00093\00093777\CADD\SHEETSPLAN\025102-TC STAGING I-39.DWG
LAYOUT NAME - 025131-tc 1174 1B
PLOT DATE : 5/5/2026 9:18 AM PLOT BY : SHAWN DOLENS PLOT NAME : PLOT SCALE : 1 IN:100 FT

2

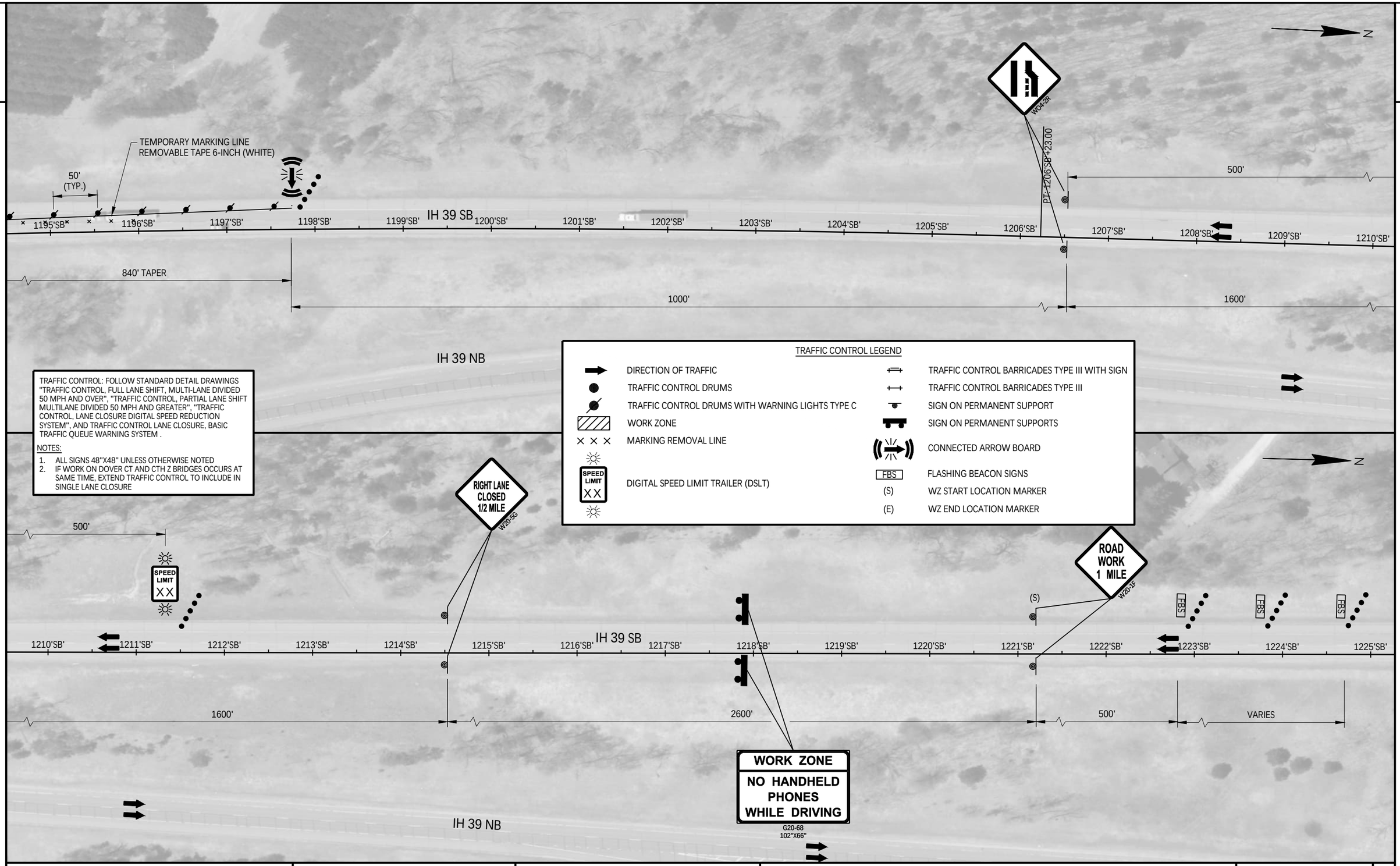
TRAFFIC CONTROL: FOLLOW STANDARD DETAIL DRAWINGS "TRAFFIC CONTROL, FULL LANE SHIFT, MULTI-LANE DIVIDED 50 MPH AND OVER", "TRAFFIC CONTROL, PARTIAL LANE SHIFT MULTILANE DIVIDED 50 MPH AND GREATER", "TRAFFIC CONTROL, LANE CLOSURE DIGITAL SPEED REDUCTION SYSTEM", AND TRAFFIC CONTROL LANE CLOSURE, BASIC TRAFFIC QUEUE WARNING SYSTEM .

NOTES:

1. ALL SIGNS 48"X48" UNLESS OTHERWISE NOTED
2. IF WORK ON DOVER CT AND CTH Z BRIDGES OCCURS AT SAME TIME, EXTEND TRAFFIC CONTROL TO INCLUDE IN SINGLE LANE CLOSURE

TRAFFIC CONTROL LEGEND

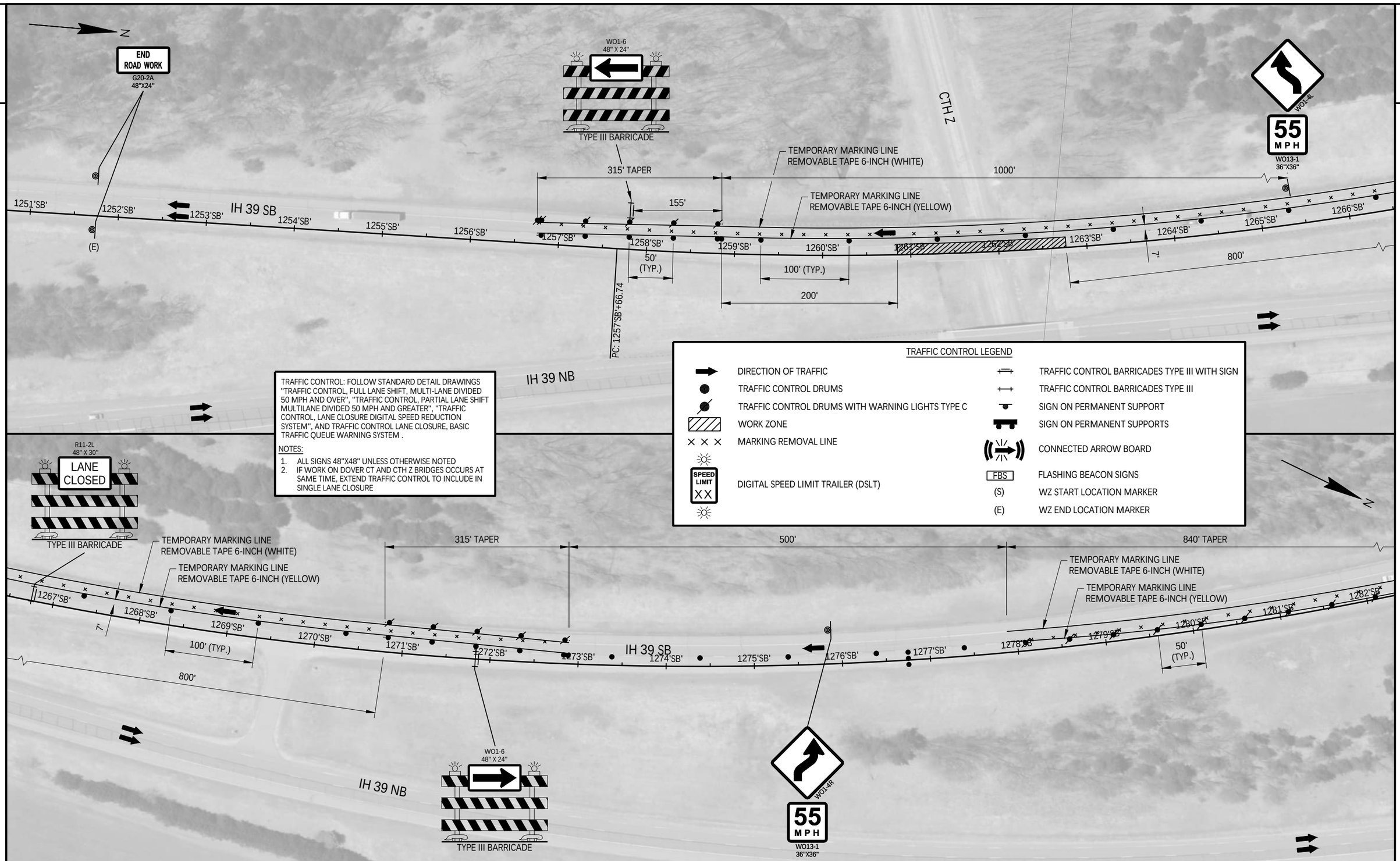
- DIRECTION OF TRAFFIC
- TRAFFIC CONTROL DRUMS
- TRAFFIC CONTROL DRUMS WITH WARNING LIGHTS TYPE C
- WORK ZONE
- MARKING REMOVAL LINE
- DIGITAL SPEED LIMIT TRAILER (DSLT)
- TRAFFIC CONTROL BARRICADES TYPE III WITH SIGN
- TRAFFIC CONTROL BARRICADES TYPE III
- SIGN ON PERMANENT SUPPORT
- SIGN ON PERMANENT SUPPORTS
- CONNECTED ARROW BOARD
- FBS FLASHING BEACON SIGNS
- (S) WZ START LOCATION MARKER
- (E) WZ END LOCATION MARKER



PROJECT NO: 1166-04-85	HWY: IH 39	COUNTY: MARQUETTE	TRAFFIC CONTROL - STRUCTURE B-39-0033 - STAGE 1B	SHEET 95	E

FILE NAME : G:\00\00093\00093777\CADD\SHEETSPLAN\025102-TC STAGING I-39.DWG
LAYOUT NAME - 025132-tc 1174 1B

PLOT DATE : 5/5/2026 9:18 AM PLOT BY : SHAWN DOLENS PLOT NAME : PLOT SCALE : 1 IN:100 FT



PROJECT NO: 1166-04-85	HWY: IH 39	COUNTY: MARQUETTE	TRAFFIC CONTROL - STRUCTURE B-39-0040 - STAGE 1A	SHEET 96	E

2

PT: 1284'SB'+46.99

TEMPORARY MARKING LINE
REMOVABLE TAPE 6-INCH (WHITE)

840' TAPER

TEMPORARY MARKING LINE
REMOVABLE TAPE 6-INCH (YELLOW)

1000'

1600'

IH 39 SB

1283'SB' 1284'SB' 1285'SB' 1286'SB' 1287'SB' 1288'SB' 1289'SB' 1290'SB' 1291'SB' 1292'SB' 1293'SB' 1294'SB' 1295'SB' 1296'SB' 1297'SB'

50'
(TYP.)

500'

W4-2L

N

TRAFFIC CONTROL LEGEND

- DIRECTION OF TRAFFIC
- TRAFFIC CONTROL DRUMS
- TRAFFIC CONTROL DRUMS WITH WARNING LIGHTS TYPE C
- WORK ZONE
- MARKING REMOVAL LINE
- DIGITAL SPEED LIMIT TRAILER (DSLT) (SPEED LIMIT XX)
- TRAFFIC CONTROL BARRICADES TYPE III WITH SIGN
- TRAFFIC CONTROL BARRICADES TYPE III
- SIGN ON PERMANENT SUPPORT
- SIGN ON PERMANENT SUPPORTS
- CONNECTED ARROW BOARD
- FBS — FLASHING BEACON SIGNS
- (S) — WZ START LOCATION MARKER
- (E) — WZ END LOCATION MARKER

TRAFFIC CONTROL: FOLLOW STANDARD DETAIL DRAWINGS "TRAFFIC CONTROL, FULL LANE SHIFT, MULTI-LANE DIVIDED 50 MPH AND OVER", "TRAFFIC CONTROL, PARTIAL LANE SHIFT MULTILANE DIVIDED 50 MPH AND GREATER", "TRAFFIC CONTROL, LANE CLOSURE DIGITAL SPEED REDUCTION SYSTEM", AND TRAFFIC CONTROL LANE CLOSURE, BASIC TRAFFIC QUEUE WARNING SYSTEM .

NOTES:

1. ALL SIGNS 48"X48" UNLESS OTHERWISE NOTED
2. IF WORK ON DOVER CT AND CTH Z BRIDGES OCCURS AT SAME TIME, EXTEND TRAFFIC CONTROL TO INCLUDE IN SINGLE LANE CLOSURE

N

1600'

500'

SPEED LIMIT XX

PC: 1301'SB'+49.04

2600'

500'

VARIES

IH 39 SB

1298'SB' 1299'SB' 1300'SB' 1301'SB' 1302'SB' 1303'SB' 1304'SB' 1305'SB' 1306'SB' 1307'SB' 1308'SB' 1309'SB' 1310'SB' 1311'SB' 1312'SB' 1313'SB'

FBS FBS FBS

(S)

LEFT LANE CLOSED 1/2 MILE
W20-5SG

WORK ZONE
NO HANDHELD PHONES WHILE DRIVING
G20-68
102"X66"

ROAD WORK 1 MILE
W20-1F

PROJECT NO: 1166-04-85	HWY: IH 39	COUNTY: MARQUETTE	TRAFFIC CONTROL - STRUCTURE B-39-0040 - STAGE 1A	SHEET 97	E

2

N

END ROAD WORK
G20-2A
48"X24"

(E)

IH 39 SB

1251'SB' 1252'SB' 1253'SB' 1254'SB' 1255'SB' 1256'SB' 1257'SB' 1258'SB' 1259'SB' 1260'SB' 1261'SB' 1262'SB' 1263'SB' 1264'SB' 1265'SB' 1266'SB'

50' (TYP.)

TEMPORARY MARKING LINE
REMOVABLE TAPE 6-INCH (WHITE)

TEMPORARY MARKING LINE
REMOVABLE TAPE 6-INCH (YELLOW)

1000'

100' (TYP.)

105' TAPER

200'

PC: 1257'SB' +66.74

4'

800'

WO1-6
48" X 24"

TYPE III BARRICADE

IH 39 NB

CTH Z

WO1-4L

55 MPH
WO13-1
36"X36"

TRAFFIC CONTROL: FOLLOW STANDARD DETAIL DRAWINGS "TRAFFIC CONTROL, FULL LANE SHIFT, MULTI-LANE DIVIDED 50 MPH AND OVER", "TRAFFIC CONTROL, PARTIAL LANE SHIFT MULTILANE DIVIDED 50 MPH AND GREATER", "TRAFFIC CONTROL, LANE CLOSURE DIGITAL SPEED REDUCTION SYSTEM", AND TRAFFIC CONTROL LANE CLOSURE, BASIC TRAFFIC QUEUE WARNING SYSTEM .

NOTES:

1. ALL SIGNS 48"X48" UNLESS OTHERWISE NOTED
2. IF WORK ON DOVER CT AND CTH Z BRIDGES OCCURS AT SAME TIME, EXTEND TRAFFIC CONTROL TO INCLUDE IN SINGLE LANE CLOSURE

TRAFFIC CONTROL LEGEND

- DIRECTION OF TRAFFIC
- TRAFFIC CONTROL DRUMS
- TRAFFIC CONTROL DRUMS WITH WARNING LIGHTS TYPE C
- WORK ZONE
- MARKING REMOVAL LINE
- DIGITAL SPEED LIMIT TRAILER (DSLT)
- TRAFFIC CONTROL BARRICADES TYPE III WITH SIGN
- TRAFFIC CONTROL BARRICADES TYPE III
- SIGN ON PERMANENT SUPPORT
- SIGN ON PERMANENT SUPPORTS
- CONNECTED ARROW BOARD
- FBS FLASHING BEACON SIGNS
- (S) WZ START LOCATION MARKER
- (E) WZ END LOCATION MARKER

N

R11-2L
48" X 30"
LANE CLOSED

TYPE III BARRICADE

WO1-6
48" X 24"

TYPE III BARRICADE

TEMPORARY MARKING LINE
REMOVABLE TAPE 6-INCH (WHITE)

TEMPORARY MARKING LINE
REMOVABLE TAPE 6-INCH (YELLOW)

WO1-4L

55 MPH
WO13-1
36"X36"

IH 39 SB

1267'SB' 1268'SB' 1269'SB' 1270'SB' 1271'SB' 1272'SB' 1273'SB' 1274'SB' 1275'SB' 1276'SB' 1277'SB' 1278'SB' 1279'SB' 1280'SB' 1281'SB' 1282'SB'

4'

100' (TYP.)

800'

105' TAPER

500'

TEMPORARY MARKING LINE
REMOVABLE TAPE 6-INCH (WHITE)

TEMPORARY MARKING LINE
REMOVABLE TAPE 6-INCH (YELLOW)

50' (TYP.)

840' TAPER

IH 39 NB

PROJECT NO: 1166-04-85	HWY: IH 39	COUNTY: MARQUETTE	TRAFFIC CONTROL - STRUCTURE B-39-0040 - STAGE 1B	SHEET 98	E

FILE NAME : G:\00\00093\00093777\CADD\SHEETSPLAN\025102-TC STAGING I-39.DWG
LAYOUT NAME - 025135-tc 1262 1B
PLOT DATE : 5/5/2026 9:18 AM
PLOT BY : SHAWN DOLENS
PLOT NAME :
PLOT SCALE : 1 IN:100 FT
WISDOT/CADDS SHEET 44

2

TEMPORARY MARKING LINE
REMOVABLE TAPE 6-INCH (WHITE)

TEMPORARY MARKING LINE
REMOVABLE TAPE 6-INCH (YELLOW)

50'
(TYP.)

PT: 1284'SB'+46.99

W04-2R

500'

IH 39 SB

1283'SB' 1284'SB' 1285'SB' 1286'SB' 1287'SB' 1288'SB' 1289'SB' 1290'SB' 1291'SB' 1292'SB' 1293'SB' 1294'SB' 1295'SB' 1296'SB' 1297'SB'

840' TAPER

1000'

1600'

TRAFFIC CONTROL: FOLLOW STANDARD DETAIL DRAWINGS "TRAFFIC CONTROL, FULL LANE SHIFT, MULTI-LANE DIVIDED 50 MPH AND OVER", "TRAFFIC CONTROL, PARTIAL LANE SHIFT MULTILANE DIVIDED 50 MPH AND GREATER", "TRAFFIC CONTROL, LANE CLOSURE DIGITAL SPEED REDUCTION SYSTEM", AND TRAFFIC CONTROL LANE CLOSURE, BASIC TRAFFIC QUEUE WARNING SYSTEM .

NOTES:

1. ALL SIGNS 48"X48" UNLESS OTHERWISE NOTED
2. IF WORK ON DOVER CT AND CTH Z BRIDGES OCCURS AT SAME TIME, EXTEND TRAFFIC CONTROL TO INCLUDE IN SINGLE LANE CLOSURE

TRAFFIC CONTROL LEGEND

DIRECTION OF TRAFFIC	TRAFFIC CONTROL BARRICADES TYPE III WITH SIGN
TRAFFIC CONTROL DRUMS	TRAFFIC CONTROL BARRICADES TYPE III
TRAFFIC CONTROL DRUMS WITH WARNING LIGHTS TYPE C	SIGN ON PERMANENT SUPPORT
WORK ZONE	SIGN ON PERMANENT SUPPORTS
MARKING REMOVAL LINE	CONNECTED ARROW BOARD
SPEED LIMIT XX — DIGITAL SPEED LIMIT TRAILER (DSLT)	FBS — FLASHING BEACON SIGNS
	(S) — WZ START LOCATION MARKER
	(E) — WZ END LOCATION MARKER

RIGHT LANE CLOSED 1/2 MILE
W20-5G

ROAD WORK 1 MILE
W20-1F

(S)

FBS

500'

SPEED LIMIT XX

PC: 1301'SB'+49.04

IH 39 SB

1298'SB' 1299'SB' 1300'SB' 1301'SB' 1302'SB' 1303'SB' 1304'SB' 1305'SB' 1306'SB' 1307'SB' 1308'SB' 1309'SB' 1310'SB' 1311'SB' 1312'SB' 1313'SB'

1600' 2600' 500' VARIES

WORK ZONE
NO HANDHELD PHONES WHILE DRIVING
G20-68
102"X66"

PROJECT NO: 1166-04-85	HWY: IH 39	COUNTY: MARQUETTE	TRAFFIC CONTROL - STRUCTURE B-39-0040 - STAGE 1B	SHEET 99	E

FILE NAME : G:\00\00093\00093777\CADD\SHEETSPLAN\025102-TC STAGING I-39.DWG
LAYOUT NAME - 025136-tc 1262 1B

PLOT DATE : 5/5/2026 9:18 AM PLOT BY : SHAWN DOLENS PLOT NAME : PLOT SCALE : 1 IN:100 FT

REST AREA
CLOSED
G20-61
120"X30"

182'C'
184'C'
186'C'
188'C'
190'C'

R11-2R
48" X 30"
RAMP CLOSED
TYPE III BARRICADE

R5-1
48" X 48"

RAMP
R5-1
48" X 48"

PCMS

200'

1000'

REST AREA
CLOSED
G20-61
120"X30"

1348'SB' 1349'SB' 1350'SB' 1351'SB' 1352'SB' 1353'SB' 1354'SB' 1355'SB' 1356'SB' 1357'SB' 1358'SB' 1359'SB' 100'SB' 101'SB' 102'SB' 103'SB'

25'

END
ROAD WORK
G20-2A
48"X24"

TEMPORARY MARKING LINE
REMOVABLE TAPE 6 INCH (WHITE)

STA BACK = 1359'SB'+03.11
STA AHEAD = 99'SB'+65.00

N

TRAFFIC CONTROL: FOLLOW STANDARD DETAIL DRAWINGS "TRAFFIC CONTROL, EXIT RAMP CLOSURE"

NOTES:
1. ALL SIGNS 48"X48" UNLESS OTHERWISE NOTED
2. PLACE PCMS 7 DAYS PRIOR TO CLOSURE OF REST AREA. MESSAGE "REST AREA TO CLOSE XX-XX-XX"

TRAFFIC CONTROL LEGEND

- DIRECTION OF TRAFFIC
- TRAFFIC CONTROL DRUMS
- TRAFFIC CONTROL DRUMS WITH WARNING LIGHTS TYPE C
- TRAFFIC CONTROL FLEXIBLE TUBULAR MARKER
- WORK ZONE
- ASPHALTIC SURFACE TEMPORARY
- COVER SIGN
- PCMS TRAFFIC CONTROL SIGNS PCMS
- TRAFFIC CONTROL BARRICADES TYPE III WITH SIGN
- TRAFFIC CONTROL BARRICADES TYPE III
- SIGN ON PERMANENT SUPPORT
- SIGN ON TEMPORARY SUPPORT
- MARKING REMOVAL LINE
- FLAGS, 16" X 16" MIN. (ORANGE)
- SIGN - TO BE MOVED
- SIGN - TO REMAIN

REST AREA
CLOSED
G20-61
120"X30"

N

1000'
1500'
1500'

190'C'
190'C'

1357'SB' 1358'SB' 1359'SB' 100'SB' 101'SB' 102'SB' 103'SB' 104'SB' 105'SB' 106'SB' 107'SB' 108'SB' 109'SB' 110'SB' 111'SB' 112'SB'

STA BACK = 1359'SB'+03.11
STA AHEAD = 99'SB'+65.00

RAMP CLOSED 1000 FT
W20-58C

RAMP CLOSED AHEAD
W20-53A

ROAD WORK AHEAD
W20-1A

PROJECT NO: 1166-04-85	HWY: IH 39	COUNTY: MARQUETTE	TRAFFIC CONTROL - SB REST AREA 81	SHEET 100	E

FILE NAME : G:\00\00093\00093777\CADD\SHEETSPLAN\025104-TC SB REST AREA.DWG
LAYOUT NAME - 025137-tc SB Rest Area

PLOT DATE : 5/5/2026 9:19 AM PLOT BY : SHAWN DOLENS PLOT NAME : PLOT SCALE : 1 IN:100 FT

2

TRAFFIC CONTROL LEGEND

- DIRECTION OF TRAFFIC
- TRAFFIC CONTROL DRUMS
- TRAFFIC CONTROL DRUMS WITH WARNING LIGHTS TYPE C
- TRAFFIC CONTROL FLEXIBLE TUBULAR MARKER
- WORK ZONE
- ASPHALTIC SURFACE TEMPORARY
- COVER SIGN
- PCMS — TRAFFIC CONTROL SIGNS PCMS
- TRAFFIC CONTROL BARRICADES TYPE III WITH SIGN
- TRAFFIC CONTROL BARRICADES TYPE III
- SIGN ON PERMANENT SUPPORT
- SIGN ON TEMPORARY SUPPORT
- MARKING REMOVAL LINE
- FLAGS, 16" X 16" MIN. (ORANGE)
- SIGN - TO BE MOVED
- SIGN - TO REMAIN

N

TRAIL CLOSED
R11-2T
48"X30"

ICE AGE TRAIL SPUR

84'C'
86'C'
86'CT'
88'C'
82'C'
84'CT'
90'C'
80'C'
82'CT'
92'C'
80'CT'
78'C'

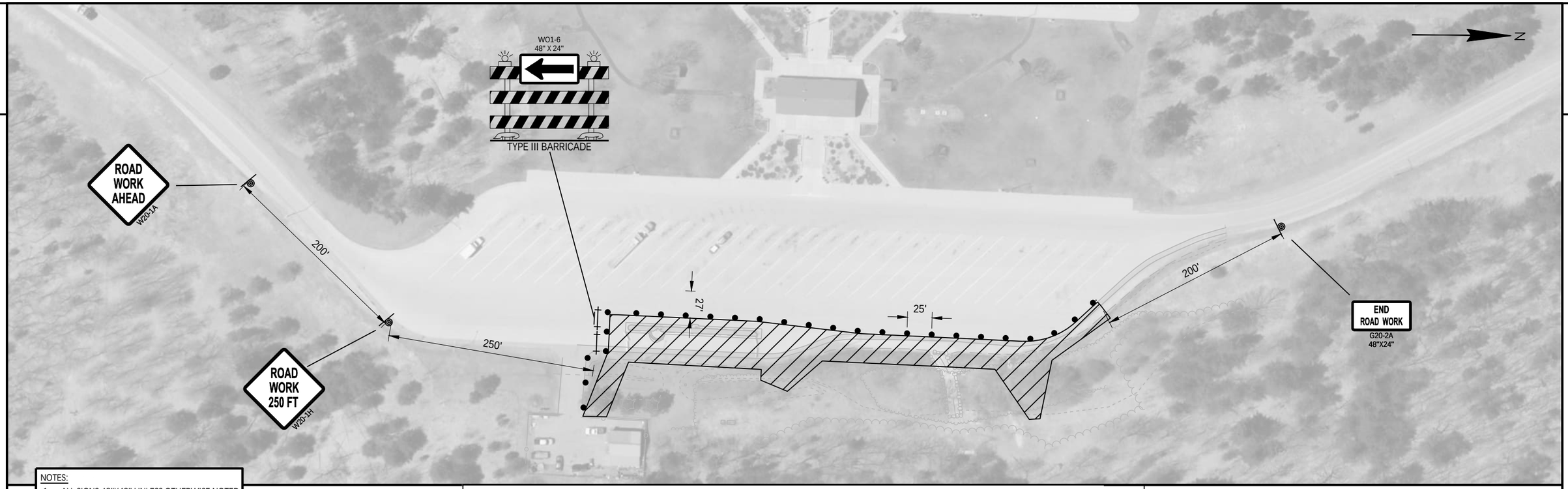
SB REST AREA 81

2

PROJECT NO: 1166-04-85	HWY: IH 39	COUNTY: MARQUETTE	TRAFFIC CONTROL - SB REST AREA 81	SHEET 101	E

FILE NAME : G:\00\00093\00093777\CADD\SHEETSPLAN\025104-TC SB REST AREA.DWG
LAYOUT NAME - 025138-tc SB Rest Area

PLOT DATE : 5/5/2026 9:19 AM PLOT BY : SHAWN DOLENS PLOT NAME : PLOT SCALE : 1 IN:100 FT



NOTES:

1. ALL SIGNS 48"X48" UNLESS OTHERWISE NOTED

TRAFFIC CONTROL LEGEND

DIRECTION OF TRAFFIC	TRAFFIC CONTROL BARRICADES TYPE III WITH SIGN
TRAFFIC CONTROL DRUMS	TRAFFIC CONTROL BARRICADES TYPE III WITH TYPE A LIGHTS
TRAFFIC CONTROL DRUMS WITH WARNING LIGHTS TYPE C	SIGN ON PERMANENT SUPPORT
TRAFFIC CONTROL FLEXIBLE TUBULAR MARKER	SIGN ON TEMPORARY SUPPORT
WORK ZONE	MARKING REMOVAL LINE
ASPHALTIC SURFACE TEMPORARY	FLAGS, 16" X 16" MIN. (ORANGE)
COVER SIGN	SIGN - TO BE MOVED
	SIGN - TO REMAIN

PROJECT NO: 1166-04-85	HWY: IH 39	COUNTY: MARQUETTE	TRAFFIC CONTROL - NB REST AREA 82	SHEET 102	E

FILE NAME : G:\00\00093\00093777\CADD\SHEETSPLAN\025104-TC SB REST AREA.DWG
LAYOUT NAME - 025139-tc NB Rest Area

PLOT DATE : 5/5/2026 9:19 AM PLOT BY : SHAWN DOLENS PLOT NAME : PLOT SCALE : 1 IN:100 FT

2

LEGEND

- REDIRECTION ROUTE FOR IH 39 SB ENTRANCE RAMP CLOSURE (STAGE 2)
- REDIRECTION ROUTE FOR IH 39 SB EXIT RAMP CLOSURE (STAGE 3)
- TRAFFIC CONTROL BARRICADES TYPE III

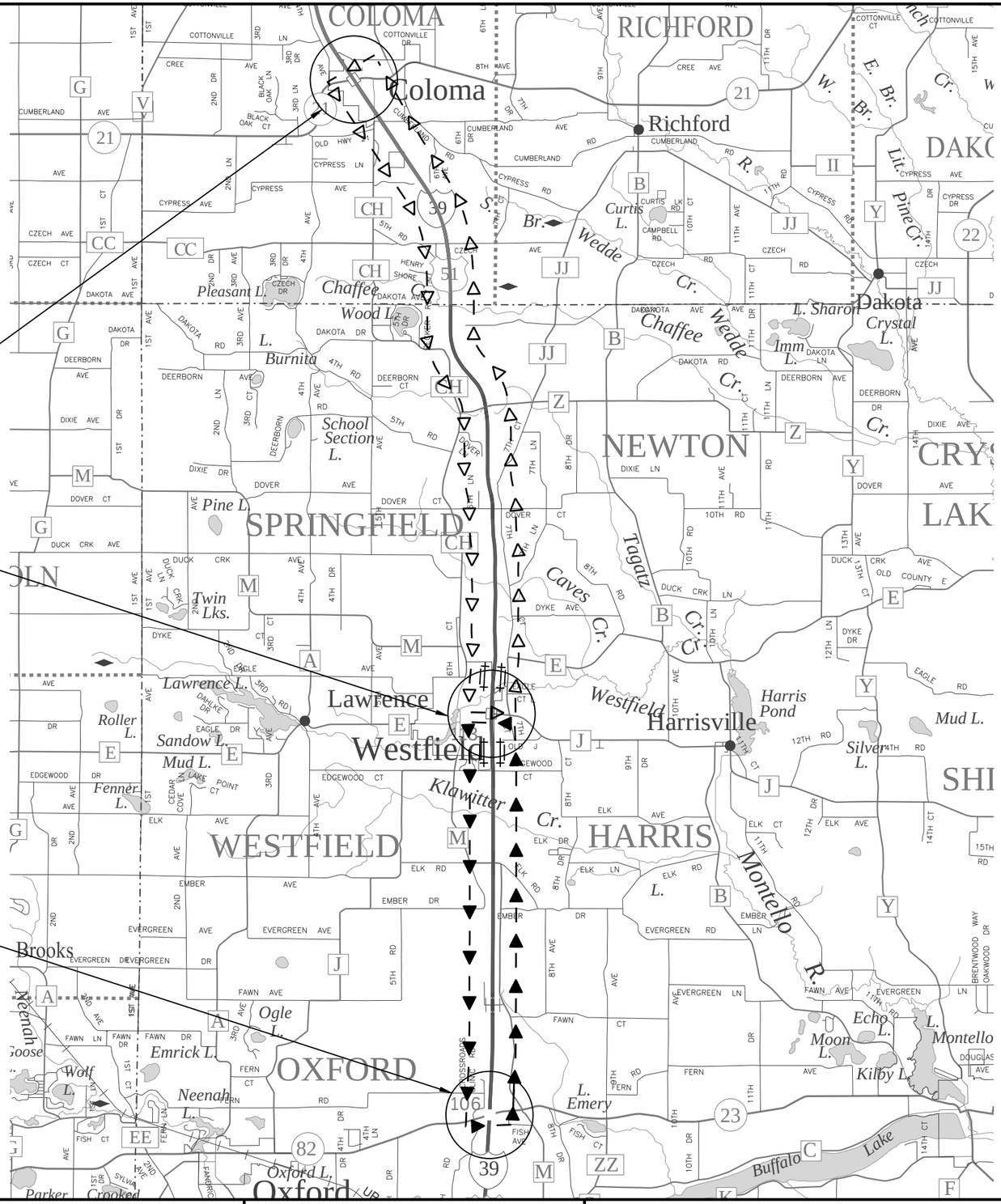
IH 39 / STH 21 INTERCHANGE
SEE SIGNING IH 39 STAGE 2 RAMP CLOSURE INTERCHANGE DETAILS

IH 39 / CTH E/CTH J INTERCHANGE
SEE SIGNING IH 39 STAGE 2 RAMP CLOSURE INTERCHANGE DETAILS
& SIGNING IH 39 STAGE 3 RAMP CLOSURE INTERCHANGE DETAILS

IH 39 / STH 23/STH 82 INTERCHANGE
SEE SIGNING IH 39 STAGE 3 RAMP CLOSURE INTERCHANGE DETAILS

NOTES

PLACE TRAFFIC CONTROL BARRICADES TYPE III AT MEDIAN CROSSOVERS WITH R11-2 SIGN.



N

GENERAL NOTES:

ALL SIGNS SHALL BE PLACED IN ACCORDANCE WITH THE WISCONSIN MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES.

EXACT NUMBER, LOCATION AND SPACING OF SIGNS AND DEVICES MAY BE ADJUSTED TO FIT FIELD CONDITIONS AS DIRECTED BY THE ENGINEER.

SIGN LAYOUTS SHALL BE IN ACCORDANCE WITH THE FEDERAL HIGHWAY ADMINISTRATION MANUAL OF STANDARD HIGHWAY SIGNS, UNLESS OTHERWISE PROVIDED BY THE PLAN.

ANY EXISTING TRAFFIC SIGNS THAT CONFLICT WITH THIS WORK SHALL BE COVERED AS DIRECTED BY THE ENGINEER.

ALL SIGNS ARE 48" X 48" UNLESS OTHERWISE NOTED.

"WO" IS SAME AS "W", EXCEPT ORANGE.

"MO" IS SAME AS "M", EXCEPT ORANGE.

PROJECT NO: 1166-04-85	HWY: IH 39	COUNTY: MARQUETTE	SIGNING - IH 39 SB RAMP CLOSURE AT CTH E/J (OVERVIEW)	SHEET 103	E

FILE NAME : G:\00\00093\00093777\CADD\SHEETSPLAN\027001-DT.DWG
LAYOUT NAME - 027001-dt - SB CTH E

PLOT DATE : 5/5/2026 9:32 AM PLOT BY : SHAWN DOLENS PLOT NAME : PLOT SCALE : ##########

WISDOT/CADDS SHEET 42

LEGEND

- REDIRECTION ROUTE FOR IH 39 NB EXIT RAMP CLOSURE (STAGE 2)
- REDIRECTION ROUTE FOR IH 39 NB ENTRANCE RAMP CLOSURE (STAGE 3)
- TRAFFIC CONTROL BARRICADES TYPE III

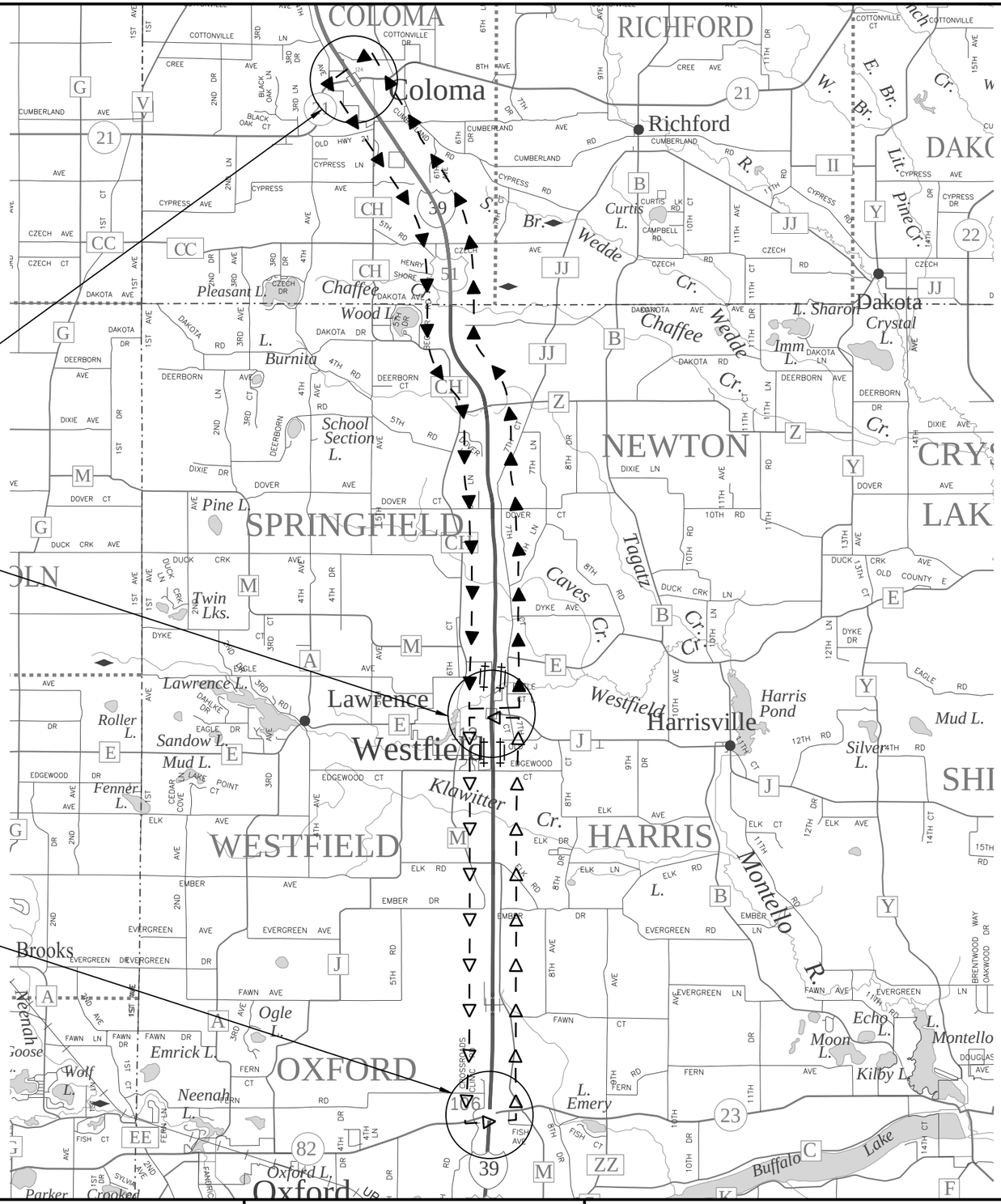
IH 39 / STH 21 INTERCHANGE
SEE SIGNING IH 39 STAGE 2 RAMP CLOSURE INTERCHANGE DETAILS

IH 39 / CTH E/CTH J INTERCHANGE
SEE SIGNING IH 39 STAGE 2 RAMP CLOSURE INTERCHANGE DETAILS
& SIGNING IH 39 STAGE 3 RAMP CLOSURE INTERCHANGE DETAILS

IH 39 / STH 23/STH 82 INTERCHANGE
SEE SIGNING IH 39 STAGE 3 RAMP CLOSURE INTERCHANGE DETAILS

NOTES

PLACE TRAFFIC CONTROL BARRICADES TYPE III AT MEDIAN CROSSOVERS WITH R11-2 SIGN.



N

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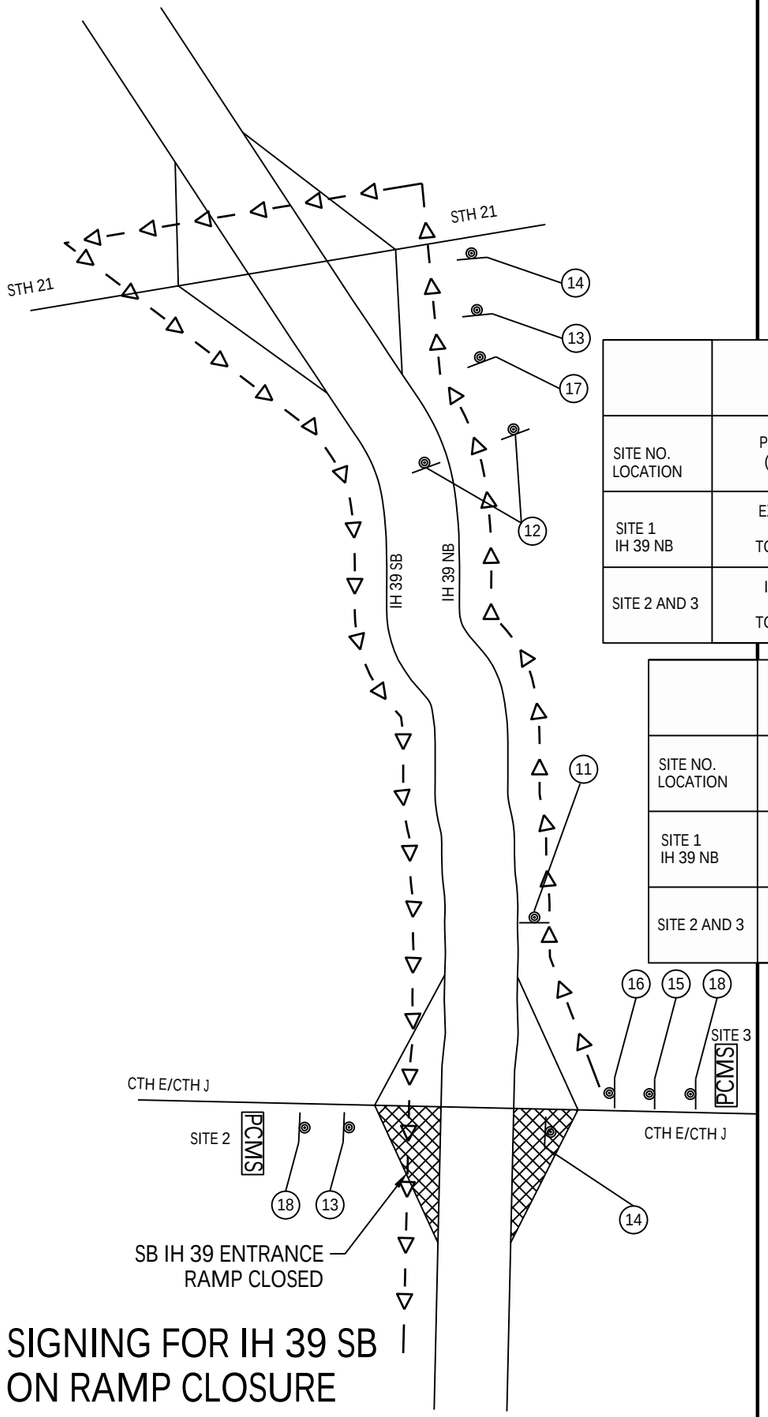
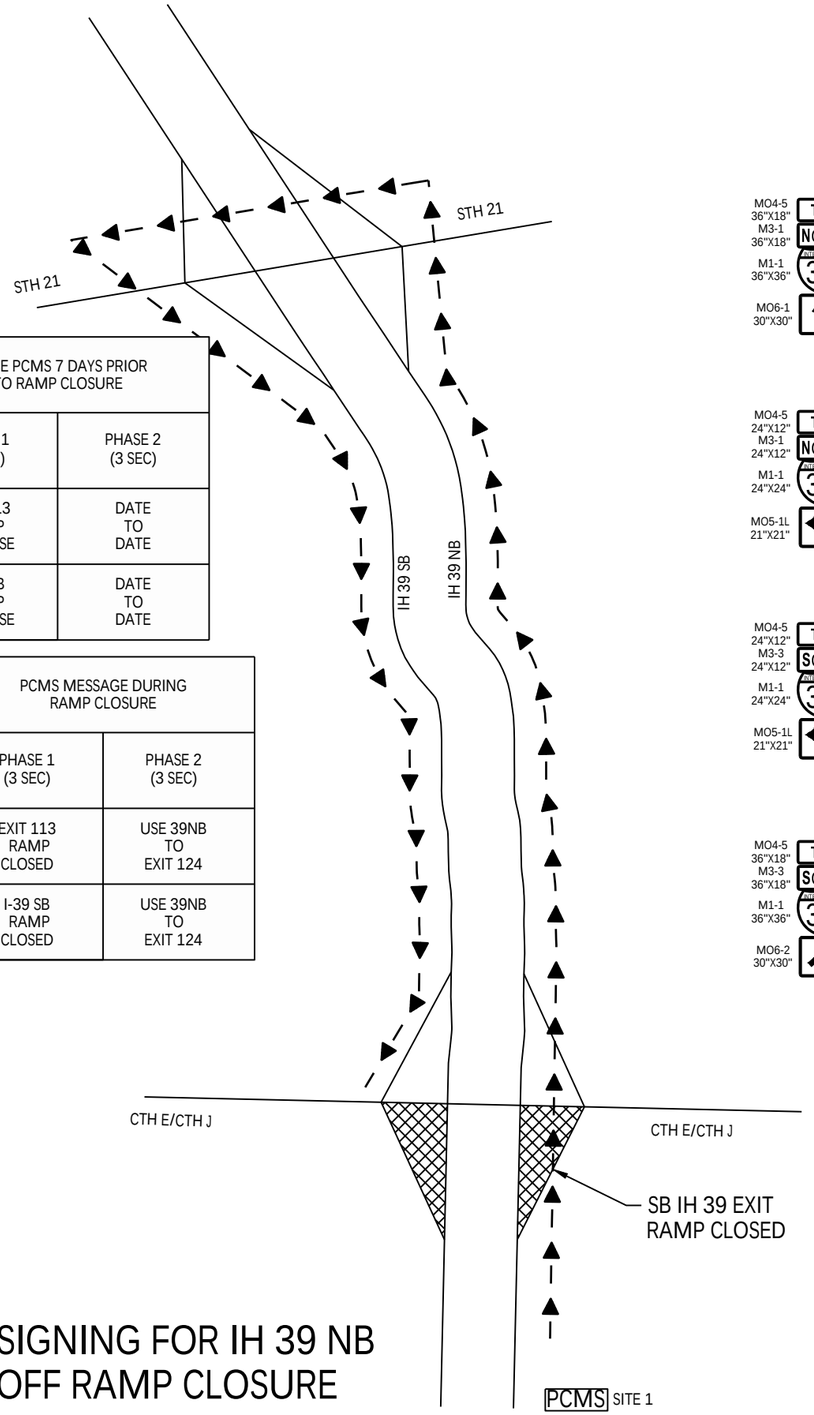
PROJECT NO: 1166-04-85	HWY: IH 39	COUNTY: MARQUETTE	SIGNING - IH 39 NB RAMP CLOSURE AT CTH E/J (OVERVIEW)	SHEET 104	E



	PLACE PCMS 7 DAYS PRIOR TO RAMP CLOSURE	
SITE NO. LOCATION	PHASE 1 (3 SEC)	PHASE 2 (3 SEC)
SITE 1 IH 39 NB	EXIT 113 RAMP TO CLOSE	DATE TO DATE
SITE 2 AND 3	I-39 SB RAMP TO CLOSE	DATE TO DATE

	PCMS MESSAGE DURING RAMP CLOSURE	
SITE NO. LOCATION	PHASE 1 (3 SEC)	PHASE 2 (3 SEC)
SITE 1 IH 39 NB	EXIT 113 RAMP CLOSED	USE 39NB TO EXIT 124
SITE 2 AND 3	I-39 SB RAMP CLOSED	USE 39NB TO EXIT 124

SIGNING FOR IH 39 SB ON RAMP CLOSURE



SIGNING FOR IH 39 NB OFF RAMP CLOSURE

LEGEND

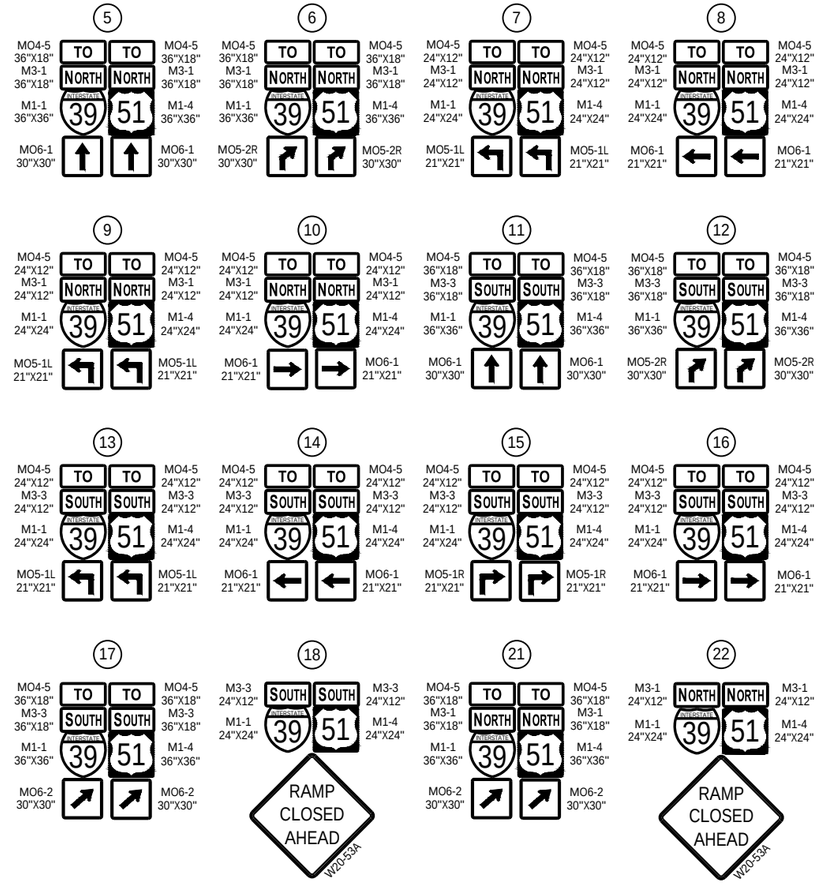
N

REDIRECTION ROUTE FOR IH 39 SB EXIT RAMP CLOSURE

REDIRECTION ROUTE FOR IH 39 NB ENTRANCE RAMP CLOSURE

PCMS PORTABLE CHANGEABLE MESSAGE BOARD

SIGN ON PERMANENT SUPPORT



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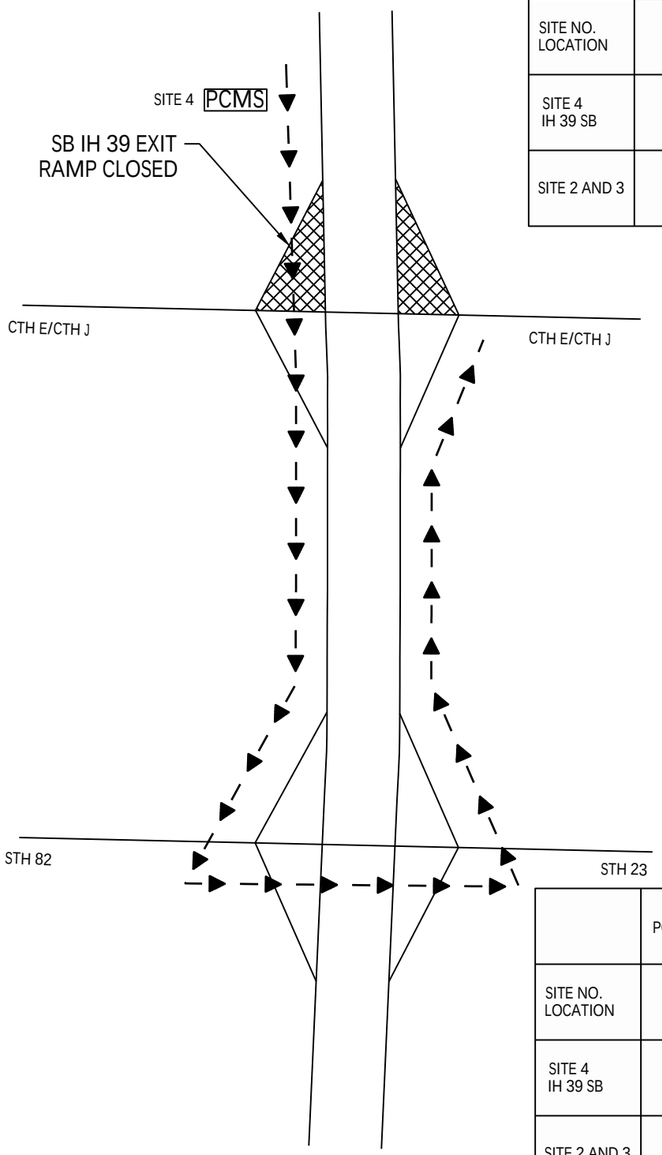
"MO" IS SAME AS "M", EXCEPT ORANGE.

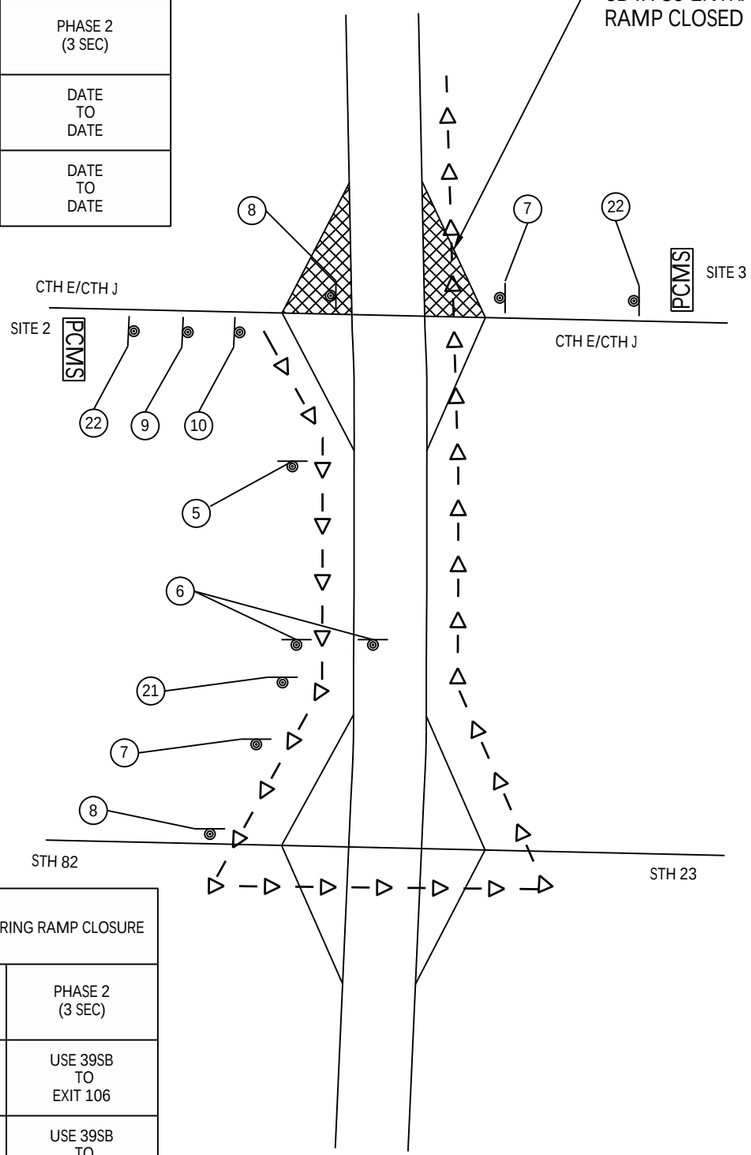
NOTE: NOT TO SCALE

	PLACE PCMS 7 DAYS PRIOR TO RAMP CLOSURE	
SITE NO. LOCATION	PHASE 1 (3 SEC)	PHASE 2 (3 SEC)
SITE 4 IH 39 SB	EXIT 113 RAMP TO CLOSE	DATE TO DATE
SITE 2 AND 3	I-39 NB RAMP TO CLOSE	DATE TO DATE



	PCMS MESSAGE DURING RAMP CLOSURE	
SITE NO. LOCATION	PHASE 1 (3 SEC)	PHASE 2 (3 SEC)
SITE 4 IH 39 SB	EXIT 113 RAMP CLOSED	USE 39SB TO EXIT 106
SITE 2 AND 3	I-39 NB RAMP CLOSED	USE 39SB TO EXIT 106

SIGNING FOR IH 39 SB OFF RAMP CLOSURE

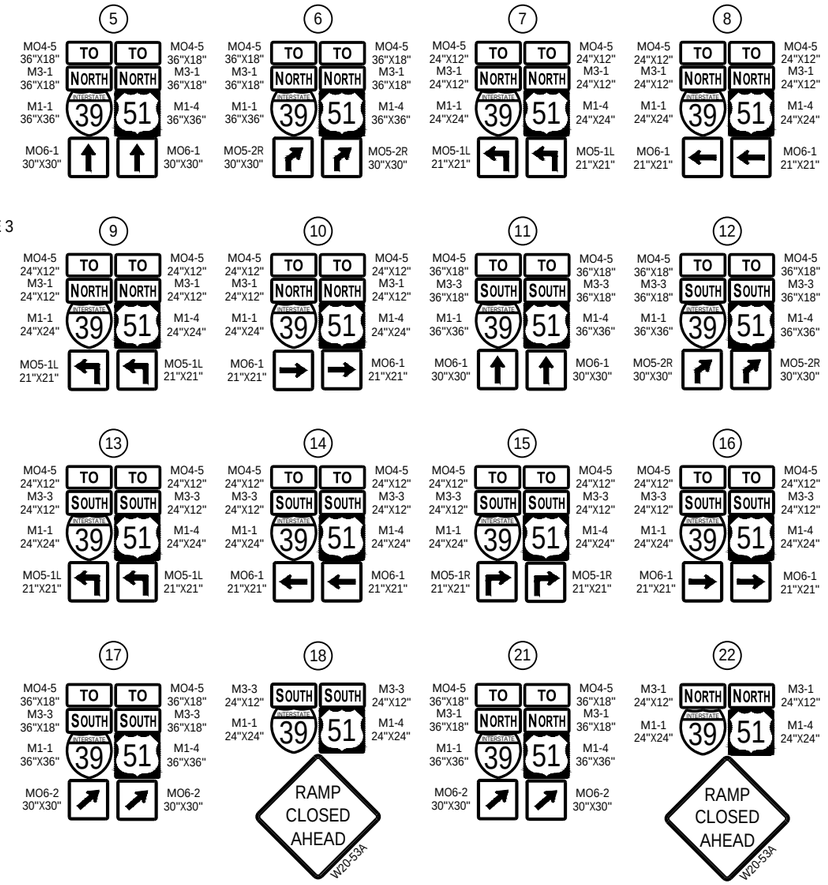


SIGNING FOR IH 39 NB ON RAMP CLOSURE

LEGEND

- REDIRECTION ROUTE FOR IH 39 SB EXIT RAMP CLOSURE
- REDIRECTION ROUTE FOR IH 39 NB ENTRANCE RAMP CLOSURE
- PCMS PORTABLE CHANGEABLE MESSAGE BOARD
- SIGN ON PERMANENT SUPPORT

N



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"MO" IS SAME AS "M", EXCEPT ORANGE.

NOTE: NOT TO SCALE

Estimate Of Quantities

1166-04-85

Line	Item	Item Description	Unit	Total	Qty
0002	201.0220	Grubbing	ID	30.000	30.000
0004	203.0100	Removing Small Pipe Culverts	EACH	3.000	3.000
0006	204.0100	Removing Concrete Pavement	SY	6,180.000	6,180.000
0008	204.0110	Removing Asphaltic Surface	SY	1,620.000	1,620.000
0010	204.0115	Removing Asphaltic Surface Butt Joints	SY	360.000	360.000
0012	204.0120	Removing Asphaltic Surface Milling	SY	270,075.000	270,075.000
0014	204.0150	Removing Curb & Gutter	LF	945.000	945.000
0016	204.0155	Removing Concrete Sidewalk	SY	141.000	141.000
0018	204.0165	Removing Guardrail	LF	9,775.000	9,775.000
0020	204.0170	Removing Fence	LF	30.000	30.000
0022	204.0180	Removing Delineators and Markers	EACH	224.000	224.000
0024	204.0190	Removing Surface Drains	EACH	1.000	1.000
0026	204.0195	Removing Concrete Bases	EACH	29.000	29.000
0028	204.0210	Removing Manholes	EACH	1.000	1.000
0030	204.0220	Removing Inlets	EACH	6.000	6.000
0032	204.0245	Removing Storm Sewer (size) 01. 12-Inch	LF	197.000	197.000
0034	204.0245	Removing Storm Sewer (size) 02. 30-Inch	LF	8.000	8.000
0036	204.0280	Sealing Pipes	EACH	1.000	1.000
0038	204.0291.S	Abandoning Sewer	CY	8.600	8.600
0040	205.0100	Excavation Common	CY	5,344.000	5,344.000
0042	208.0100	Borrow	CY	800.000	800.000
0044	211.0101	Prepare Foundation for Asphaltic Paving (project) 01. 1166-04-85	EACH	1.000	1.000
0046	211.0400	Prepare Foundation for Asphaltic Shoulders	STA	27.000	27.000
0048	213.0100	Finishing Roadway (project) 01. 1166-04-85	EACH	1.000	1.000
0050	305.0110	Base Aggregate Dense 3/4-Inch	TON	7,700.000	7,700.000
0052	305.0120	Base Aggregate Dense 1 1/4-Inch	TON	6,320.000	6,320.000
0054	415.0090	Concrete Pavement 9-Inch	SY	1,010.000	1,010.000
0056	415.0410	Concrete Pavement Approach Slab	SY	175.000	175.000
0058	416.0610	Drilled Tie Bars	EACH	1,790.000	1,790.000
0060	416.0620	Drilled Dowel Bars	EACH	1,530.000	1,530.000
0062	416.0750.S	Concrete Pavement Partial Depth Repair Joint Repair	LF	10.000	10.000
0064	416.0752.S	Concrete Pavement Partial Depth Repair Crack Repair	LF	730.000	730.000
0066	416.0754.S	Concrete Pavement Partial Depth Repair Surface Repair	SF	70.000	70.000
0068	416.0756.S	Concrete Pavement Partial Depth Repair Edge Repair	LF	10.000	10.000
0070	416.0758.S	Concrete Pavement Partial Depth Repair Full Depth Adjustment	SF	10.000	10.000
0072	416.1710	Concrete Pavement Repair	SY	650.000	650.000
0074	416.1720	Concrete Pavement Replacement	SY	2,550.000	2,550.000
0076	420.1000	Continuous Diamond Grinding Concrete Pavement	SY	8,300.000	8,300.000
0078	450.4000	HMA Cold Weather Paving	TON	26,500.000	26,500.000
0080	455.0605	Tack Coat	GAL	33,460.000	33,460.000
0082	460.0105.S	HMA Percent Within Limits (PWL) Test Strip Volumetrics	EACH	1.000	1.000
0084	460.0110.S	HMA Percent Within Limits (PWL) Test Strip Density	EACH	2.000	2.000
0086	460.0115.S	HMA Pavement Test Strip Volumetrics	EACH	1.000	1.000
0088	460.0120.S	HMA Pavement Test Strip Density	EACH	1.000	1.000
0090	460.2000	Incentive Density HMA Pavement	DOL	25,330.000	25,330.000
0092	460.5224	HMA Pavement 4 LT 58-28 S	TON	16,870.000	16,870.000
0094	460.6223	HMA Pavement 3 MT 58-28 S	TON	2,000.000	2,000.000
0096	460.6424	HMA Pavement 4 MT 58-28 H	TON	1,300.000	1,300.000
0098	460.7223	HMA Pavement 3 HT 58-28 S	TON	34,000.000	34,000.000

1166-04-85

Line	Item	Item Description	Unit	Total	Qty
0100	460.8424	HMA Pavement 4 SMA 58-28 H	TON	19,400.000	19,400.000
0102	460.9000.S	Material Transfer Vehicle	EACH	1.000	1.000
0104	465.0105	Asphaltic Surface	TON	360.000	360.000
0106	465.0110	Asphaltic Surface Patching	TON	810.000	810.000
0108	465.0125	Asphaltic Surface Temporary	TON	410.000	410.000
0110	465.0315	Asphaltic Flumes	SY	88.000	88.000
0112	465.0510	Asphaltic Rumble Strips, Shoulder Divided Roadway	LF	118,645.000	118,645.000
0114	520.8000	Concrete Collars for Pipe	EACH	2.000	2.000
0116	520.8700	Cleaning Culvert Pipes	EACH	1.000	1.000
0118	521.1012	Apron Endwalls for Culvert Pipe Steel 12-Inch	EACH	8.000	8.000
0120	522.0124	Culvert Pipe Reinforced Concrete Class III 24-Inch	LF	58.000	58.000
0122	522.0430	Culvert Pipe Reinforced Concrete Class IV 30-Inch	LF	64.000	64.000
0124	522.0436	Culvert Pipe Reinforced Concrete Class IV 36-Inch	LF	90.000	90.000
0126	522.1024	Apron Endwalls for Culvert Pipe Reinforced Concrete 24-Inch	EACH	2.000	2.000
0128	522.1030	Apron Endwalls for Culvert Pipe Reinforced Concrete 30-Inch	EACH	2.000	2.000
0130	522.1036	Apron Endwalls for Culvert Pipe Reinforced Concrete 36-Inch	EACH	2.000	2.000
0132	524.0130	Culvert Pipe Salvaged 30-Inch	LF	24.000	24.000
0134	524.0618	Apron Endwalls for Culvert Pipe Salvaged 18-Inch	EACH	2.000	2.000
0136	524.0630	Apron Endwalls for Culvert Pipe Salvaged 30-Inch	EACH	2.000	2.000
0138	601.0407	Concrete Curb & Gutter 18-Inch Type D	LF	164.000	164.000
0140	601.0409	Concrete Curb & Gutter 30-Inch Type A	LF	220.000	220.000
0142	601.0411	Concrete Curb & Gutter 30-Inch Type D	LF	1,730.000	1,730.000
0144	601.0551	Concrete Curb & Gutter 4-Inch Sloped 36-Inch Type A	LF	327.000	327.000
0146	601.0557	Concrete Curb & Gutter 6-Inch Sloped 36-Inch Type D	LF	25.000	25.000
0148	601.0588	Concrete Curb & Gutter 4-Inch Sloped 36-Inch Type TBT	LF	47.000	47.000
0150	601.0590	Concrete Curb & Gutter 4-Inch Sloped 36-Inch Type TBTT	LF	68.000	68.000
0152	602.0405	Concrete Sidewalk 4-Inch	SF	5,100.000	5,100.000
0154	602.0415	Concrete Sidewalk 6-Inch	SF	1,352.000	1,352.000
0156	602.0505	Curb Ramp Detectable Warning Field Yellow	SF	40.000	40.000
0158	604.0500	Slope Paving Crushed Aggregate	SY	100.000	100.000
0160	606.0200	Riprap Medium	CY	80.000	80.000
0162	606.0300	Riprap Heavy	CY	200.000	200.000
0164	608.0330	Storm Sewer Pipe Reinforced Concrete Class III 30-Inch	LF	8.000	8.000
0166	608.3012	Storm Sewer Pipe Class III-A 12-Inch	LF	282.000	282.000
0168	611.0430	Reconstructing Inlets	EACH	2.000	2.000
0170	611.0627	Inlet Covers Type HM	EACH	1.000	1.000
0172	611.0654	Inlet Covers Type V	EACH	8.000	8.000
0174	611.3225	Inlets 2x2.5-FT	EACH	8.000	8.000
0176	611.8115	Adjusting Inlet Covers	EACH	6.000	6.000
0178	611.8120.S	Cover Plates Temporary	EACH	2.000	2.000
0180	612.0902.S	Insulation Board Polystyrene (inch) 01. 2-inch	SY	8.000	8.000
0182	614.0220	Steel Thrie Beam Bullnose Terminal	EACH	4.000	4.000
0184	614.0230	Steel Thrie Beam	LF	225.000	225.000
0186	614.2300	MGS Guardrail 3	LF	8,300.000	8,300.000
0188	614.2500	MGS Thrie Beam Transition	LF	354.600	354.600
0190	614.2610	MGS Guardrail Terminal EAT	EACH	12.000	12.000
0192	614.2620	MGS Guardrail Terminal Type 2	EACH	5.000	5.000
0194	616.0100	Fence Woven Wire (height) 01. 4-FT	LF	30.000	30.000
0196	618.0100	Maintenance and Repair of Haul Roads (project) 01. 1166-04-85	EACH	1.000	1.000

Estimate Of Quantities

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Line	Item	Item Description	Unit	Total	Qty
0198	619.1000	Mobilization	EACH	1.000	1.000
0200	620.0300	Concrete Median Sloped Nose	SF	390.000	390.000
0202	624.0100	Water	MGAL	170.000	170.000
0204	625.0100	Topsoil	SY	23,200.000	23,200.000
0206	628.1504	Silt Fence	LF	11,300.000	11,300.000
0208	628.1520	Silt Fence Maintenance	LF	18,910.000	18,910.000
0210	628.1905	Mobilizations Erosion Control	EACH	11.000	11.000
0212	628.1910	Mobilizations Emergency Erosion Control	EACH	6.000	6.000
0214	628.2008	Erosion Mat Urban Class I Type B	SY	22,500.000	22,500.000
0216	628.2027	Erosion Mat Class II Type C	SY	700.000	700.000
0218	628.7005	Inlet Protection Type A	EACH	8.000	8.000
0220	628.7010	Inlet Protection Type B	EACH	3.000	3.000
0222	628.7015	Inlet Protection Type C	EACH	35.000	35.000
0224	628.7504	Temporary Ditch Checks	LF	300.000	300.000
0226	628.7555	Culvert Pipe Checks	EACH	50.000	50.000
0228	628.7570	Rock Bags	EACH	370.000	370.000
0230	629.0210	Fertilizer Type B	CWT	11.400	11.400
0232	630.0130	Seeding Mixture No. 30	LB	800.000	800.000
0234	630.0140	Seeding Mixture No. 40	LB	200.000	200.000
0236	630.0200	Seeding Temporary	LB	610.000	610.000
0238	630.0500	Seed Water	MGAL	130.000	130.000
0240	633.0100	Delineator Posts Steel	EACH	224.000	224.000
0242	633.0500	Delineator Reflectors	EACH	265.000	265.000
0244	633.5200	Markers Culvert End	EACH	18.000	18.000
0246	634.0612	Posts Wood 4x6-Inch X 12-FT	EACH	2.000	2.000
0248	634.0614	Posts Wood 4x6-Inch X 14-FT	EACH	3.000	3.000
0250	634.0616	Posts Wood 4x6-Inch X 16-FT	EACH	8.000	8.000
0252	634.0618	Posts Wood 4x6-Inch X 18-FT	EACH	5.000	5.000
0254	634.0620	Posts Wood 4x6-Inch X 20-FT	EACH	1.000	1.000
0256	638.2102	Moving Signs Type II	EACH	47.000	47.000
0258	638.3000	Removing Small Sign Supports	EACH	20.000	20.000
0260	642.5201	Field Office Type C	EACH	1.000	1.000
0262	643.0300	Traffic Control Drums	DAY	110,000.000	110,000.000
0264	643.0370.S	Digital Speed Reduction System (DSRS)	DAY	1,350.000	1,350.000
0266	643.0420	Traffic Control Barricades Type III	DAY	5,800.000	5,800.000
0268	643.0500	Traffic Control Flexible Tubular Marker Posts	EACH	105.000	105.000
0270	643.0600	Traffic Control Flexible Tubular Marker Bases	EACH	105.000	105.000
0272	643.0705	Traffic Control Warning Lights Type A	DAY	11,500.000	11,500.000
0274	643.0715	Traffic Control Warning Lights Type C	DAY	7,800.000	7,800.000
0276	643.0810	Traffic Control Connected Arrow Boards	DAY	240.000	240.000
0278	643.0900	Traffic Control Signs	DAY	18,500.000	18,500.000
0280	643.0910	Traffic Control Covering Signs Type I	EACH	13.000	13.000
0282	643.0920	Traffic Control Covering Signs Type II	EACH	55.000	55.000
0284	643.1000	Traffic Control Signs Fixed Message	SF	38.000	38.000
0286	643.1050	Traffic Control Signs PCMS	DAY	330.000	330.000
0288	643.1205.S	Basic Traffic Queue Warning System	DAY	350.000	350.000
0290	643.1220	Traffic Control Connected Work Zone Start and End Location Markers	DAY	290.000	290.000
0292	643.3165	Temporary Marking Line Paint 6-Inch	LF	259,100.000	259,100.000
0294	643.3180	Temporary Marking Line Removable Tape 6-Inch	LF	67,400.000	67,400.000

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Line	Item	Item Description	Unit	Total	Qty
0296	643.3280	Temporary Marking Line Removable Tape 10-Inch	LF	1,000.000	1,000.000
0298	643.3850	Temporary Marking Stop Line Removable Tape 18-Inch	LF	200.000	200.000
0300	643.3980	Temporary Marking Removable Mask Out Tape 8-Inch	LF	26,360.000	26,360.000
0302	643.3990	Temporary Marking Removable Mask Out Tape 12-Inch	LF	1,100.000	1,100.000
0304	643.5000	Traffic Control	EACH	1.000	1.000
0306	645.0120	Geotextile Type HR	SY	490.000	490.000
0308	646.1020	Marking Line Epoxy 4-Inch	LF	550.000	550.000
0310	646.2020	Marking Line Epoxy 6-Inch	LF	81.000	81.000
0312	646.2025	Marking Line Grooved Black Epoxy 6-Inch	LF	15,900.000	15,900.000
0314	646.2040	Marking Line Grooved Wet Ref Epoxy 6-Inch	LF	155,140.000	155,140.000
0316	646.4040	Marking Line Grooved Wet Ref Epoxy 10-Inch	LF	5,315.000	5,315.000
0318	646.5020	Marking Arrow Epoxy	EACH	4.000	4.000
0320	646.5220	Marking Symbol Epoxy	EACH	4.000	4.000
0322	646.5420	Marking Aerial Enforcement Bar Epoxy	EACH	4.000	4.000
0324	646.6120	Marking Stop Line Epoxy 18-Inch	LF	45.000	45.000
0326	646.6466	Cold Weather Marking Epoxy 6-Inch	LF	160,240.000	160,240.000
0328	646.6470	Cold Weather Marking Epoxy 10-Inch	LF	4,540.000	4,540.000
0330	646.7220	Marking Chevron Epoxy 24-Inch	LF	420.000	420.000
0332	646.7520	Marking Crosswalk Epoxy Block Style 24-Inch	LF	18.000	18.000
0334	646.8120	Marking Curb Epoxy	LF	318.000	318.000
0336	646.8220	Marking Island Nose Epoxy	EACH	6.000	6.000
0338	646.8320	Marking Parking Stall Epoxy	LF	2,740.000	2,740.000
0340	646.9000	Marking Removal Line 4-Inch	LF	73,700.000	73,700.000
0342	646.9002	Marking Removal Line 6-Inch	LF	26,000.000	26,000.000
0344	646.9200	Marking Removal Line Wide	LF	450.000	450.000
0346	646.9300	Marking Removal Special Marking	EACH	8.000	8.000
0348	650.4000	Construction Staking Storm Sewer	EACH	18.000	18.000
0350	650.4500	Construction Staking Subgrade	LF	2,094.000	2,094.000
0352	650.5000	Construction Staking Base	LF	1,766.000	1,766.000
0354	650.5500	Construction Staking Curb Gutter and Curb & Gutter	LF	3,003.000	3,003.000
0356	650.6000	Construction Staking Pipe Culverts	EACH	3.000	3.000
0358	650.7000	Construction Staking Concrete Pavement	LF	328.000	328.000
0360	650.8000	Construction Staking Resurfacing Reference	LF	75,147.000	75,147.000
0362	650.8501	Construction Staking Electrical Installations (project) 01. 1166-04-85	EACH	1.000	1.000
0364	650.9000	Construction Staking Curb Ramps	EACH	4.000	4.000
0366	650.9500	Construction Staking Sidewalk (project) 01. 1166-04-85	EACH	1.000	1.000
0368	650.9911	Construction Staking Supplemental Control (project) 01. 1166-04-85	EACH	1.000	1.000
0370	650.9920	Construction Staking Slope Stakes	LF	12,054.000	12,054.000
0372	652.0225	Conduit Rigid Nonmetallic Schedule 40 2-Inch	LF	2,510.000	2,510.000
0374	652.0235	Conduit Rigid Nonmetallic Schedule 40 3-Inch	LF	42.000	42.000
0376	652.0605	Conduit Special 2-Inch	LF	550.000	550.000
0378	653.0164	Pull Boxes Non-Conductive 24x42-Inch	EACH	8.000	8.000
0380	654.0102	Concrete Bases Type 2	EACH	2.000	2.000
0382	654.0105	Concrete Bases Type 5	EACH	16.000	16.000
0384	654.0111	Concrete Bases Type 11	EACH	8.000	8.000
0386	654.0230	Concrete Control Cabinet Bases Type L30	EACH	1.000	1.000
0388	655.0610	Electrical Wire Lighting 12 AWG	LF	17,616.000	17,616.000
0390	656.0201	Electrical Service Meter Breaker Pedestal (location) 01. Rest Area 81	EACH	1.000	1.000
0392	657.0255	Transformer Bases Breakaway 11 1/2-Inch Bolt Circle	EACH	15.000	15.000

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Line	Item	Item Description	Unit	Total	Qty
0394	657.0322	Poles Type 5-Aluminum	EACH	15.000	15.000
0396	657.0610	Luminaire Arms Single Member 4 1/2-Inch Clamp 6-FT	EACH	9.000	9.000
0398	657.0710	Luminaire Arms Truss Type 4 1/2-Inch Clamp 12-FT	EACH	10.000	10.000
0400	659.0700	Lighting Units Walkway	EACH	8.000	8.000
0402	659.1120	Luminaires Utility LED B	EACH	19.000	19.000
0404	659.2130	Lighting Control Cabinets 120/240 30-Inch	EACH	1.000	1.000
0406	690.0150	Sawing Asphalt	LF	820.000	820.000
0408	690.0250	Sawing Concrete	LF	12,650.000	12,650.000
0410	740.0440	Incentive IRI Ride	DOL	102,960.000	102,960.000
0412	ASP.1T0A	On-the-Job Training Apprentice at $5.00/HR	HRS	2,100.000	2,100.000
0414	ASP.1T0G	On-the-Job Training Graduate at $5.00/HR	HRS	4,800.000	4,800.000
0416	SPV.0030	Special 01. Fertilizer for Lawn Type Turf	CWT	5.000	5.000
0418	SPV.0055	Special 01. Incentive Density PWL HMA Pavement	DOL	28,500.000	28,500.000
0420	SPV.0055	Special 02. Incentive Air Voids HMA Pavement	DOL	34,000.000	34,000.000
0422	SPV.0055	Special 03. Incentive Density HMA Pavement Longitudinal Joints	DOL	12,130.000	12,130.000
0424	SPV.0060	Special 01. Remove and Salvage Light Pole Assemblies Rest Area 81	EACH	22.000	22.000
0426	SPV.0060	Special 02. Salvage and Reinstall Light Pole Assemblies Rest Area 82	EACH	2.000	2.000
0428	SPV.0060	Special 03. Connecting to Existing Water Line	EACH	1.000	1.000
0430	SPV.0060	Special 04. Yard Hydrant	EACH	1.000	1.000
0432	SPV.0060	Special 05. Curb Stop 1-Inch	EACH	1.000	1.000
0434	SPV.0060	Special 06. Salvage and Reinstall Ramp Gate	EACH	1.000	1.000
0436	SPV.0060	Special 07. Digital Speed Limit Trailer Pad	EACH	30.000	30.000
0438	SPV.0090	Special 01. Concrete Curb and Gutter Repair	LF	90.000	90.000
0440	SPV.0090	Special 02. Curb & Gutter 42-Inch Special	LF	422.000	422.000
0442	SPV.0090	Special 03. HDPE Water Service 1-Inch	LF	205.000	205.000
0444	SPV.0090	Special 04. UV GRP CIPP 30-Inch	LF	100.000	100.000
0446	SPV.0090	Special 05. Salvaging and Reinstalling Rail	LF	182.400	182.400
0448	SPV.0125	Special 01. Marking Mobile Reflectometer Measurements (MRM)	MI	34.800	34.800
0450	SPV.0180	Special 01. Removing Distressed Asphaltic Surface Milling	SY	2,230.000	2,230.000
0452	SPV.0180	Special 02. Preparing Topsoil for Lawn Type Turf	SY	4,082.000	4,082.000

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GRUBBING

CATEGORY	STATION	LOCATION	201.0220 GRUBBING ID
0020	1'F'+61	RT	16
0020	1'F'+72	RT	14
		TOTAL 0020	30
		PROJECT TOTALS	30

REMOVALS

CATEGORY	STATION	TO	STATION	LOCATION	204.0100 REMOVING CONCRETE PAVEMENT SY	204.0150 REMOVING CURB & GUTTER LF	* 204.0155 REMOVING CONCRETE SIDEWALK SY	204.0190 REMOVING SURFACE DRAIN EACH	REMARKS
0010			747'SB'+25	IH 39	--	--	--	1	
0010	747'SB'+08	-	747'SB'+32	IH 39	72	11	--	--	APPROACH SLAB
0010	998'SB'+29	-	998'SB'+63	IH 39 SHLDR LT	36	--	--	--	APPROACH SLAB
0010	998'SB'+29	-	998'SB'+63	IH 39 SHLDR RT	26	--	--	--	APPROACH SLAB
0010	1173'SB'+42	-	1173'SB'+61	IH 39	72	--	--	--	APPROACH SLAB
0010	1174'SB'+75	-	1174'SB'+94	IH 39	72	16	--	--	APPROACH SLAB
0010	1261'SB'+05	-	1261'SB'+26	IH 39	77	--	--	--	APPROACH SLAB
0010	1162'SB'+34	-	1162'SB'+55	IH 39	21	8	--	--	APPROACH SLAB
0010	116'EB'+67	-	123'EB'+71	CTH E EB	2,001	--	--	--	
0010	216'WB'+55	-	223'WB'+49	CTH E WB	2,142	--	--	--	
0010	431'LD'+33	-	433'LD'+23	IH 39 SB EXIT RAMP	634	--	--	--	
0010	429'LC'+00	-	430'LC'+71	IH 39 SB ENTRANCE RAMP	492	--	--	--	
				TOTAL 0010	5,645	35	0	1	
0020	1'F'+74	-	3'F'+27	LT	390	270	--	--	REST AREA 82
0020	91'C'+07	-	91'C'+37	RT	50	--	--	--	REST AREA 81
0020	77'TTT'+36	-	79'TTT'+57	LT	--	54	--	--	REST AREA 81
0020	76'TTT'+68	-	81'TTT'+00	--	--	24	--	--	REST AREA 81 - CURB & GUTTER REPAIR
0020	74'C'+75	-	85'C'+28	LT & RT	--	450	--	--	REST AREA 81
0020	75'C'+80	-	81'C'+75	--	--	52	--	--	REST AREA 81 - CURB & GUTTER REPAIR
0020	77'C'+97	-	79'C'+18	LT & RT	--	--	130	--	SIDEWALK
0020				UNDISTRIBUTED	95	60	10	--	
				TOTAL 0020	535	910	140	0	
				PROJECT TOTALS	6,180	945	140	1	

* ADDITIONAL QUANTITIES ELSEWHERE

REMOVING ASPHALT

CATEGORY	STATION	TO	STATION	LOCATION	204.0110 REMOVING ASPHALTIC SURFACE SY	204.0115 REMOVING ASPHALTIC SURFACE BUTT JOINTS SY	204.0120 REMOVING ASPHALTIC SURFACE MILLING SY	REMARKS
0010	747'SB'+24	-	747'SB'+34	--	--	47	--	--
0010	747'SB'+23	-	930'SB'+83	--	--	--	77,670	--
0010	930'SB'+83	-	996'SB'+23	--	--	--	27,610	--
0010	750'SB'+47	-	751'SB'+28	RT	30	--	--	--
0010	973'SB'+00	-	986'SB'+23	LT	--	--	1,505	RAMP
0010	996'SB'+23	-	996'SB'+33	--	--	42	--	--
0010	998'SB'+63	-	998'SB'+73	--	--	45	--	--
0010	998'SB'+73	-	1014'SB'+03	--	--	--	6,590	--
0010	1006'SB'+40	-	1011'SB'+01	LT	--	--	904	RAMP
0010	1014'SB'+03	-	1173'SB'+32	--	--	--	67,250	--
0010	1085'SB'+22	-	1086'SB'+14	LT	16	--	--	--
0010	1086'SB'+15	-	1086'SB'+88	RT	17	--	--	--
0010	1173'SB'+32	-	1173'SB'+42	--	--	44	--	--
0010	1174'SB'+99	-	1175'SB'+09	--	--	45	--	--
0010	1175'SB'+09	-	1260'SB'+95	--	--	--	36,290	--
0010	1176'SB'+76	-	1177'SB'+60	LT	8	--	--	--
0010	1260'SB'+95	-	1261'SB'+05	--	35	44	--	--
0010	1262'SB'+55	-	1262'SB'+65	--	--	45	--	--
0010	1262'SB'+65	-	1358'SB'+93	--	--	--	40,820	--
0010	1323'SB'+20	-	71'C'+00	LT	--	--	1,880	RAMP
0010	1358'SB'+93	-	1359'SB'+03	--	--	43	--	--
0010	184'C'+05	-	1357'SB'+03	LT	--	--	1,140	RAMP
0010			844'SB'+73	RT	--	--	263	MAINTENANCE CROSSOVER
0010			909'SB'+14	RT	--	--	237	MAINTENANCE CROSSOVER
0010			965'SB'+61	RT	--	--	191	MAINTENANCE CROSSOVER
0010			1023'SB'+98	RT	--	--	273	MAINTENANCE CROSSOVER
0010			1146'SB'+52	RT	--	--	421	MAINTENANCE CROSSOVER
0010			1193'SB'+17	RT	--	--	736	MAINTENANCE CROSSOVER
0010			1269'SB'+68	RT	--	--	419	MAINTENANCE CROSSOVER
0010	418'LC'+42	-	429'LC'+00	LT & RT	--	--	937	SHOULDER
0010	433'LD'+23	-	439'LD'+95	LT & RT	--	--	609	SHOULDER
0010	741'SB'+67	-	1272'SB'+89	LT	--	--	1,605	STAGE 1 (PREP) RUMBLE STRIP REMOVAL
0010	229'WB'+60	-	230'WB'+72	LT	110	--	--	STAGE 1
0010	225'WB'+14	-	228'WB'+30	LT	191	--	--	STAGE 3
0010	229'WB'+60	-	230'WB'+72	LT	25	--	--	STAGE 3
0010	116'EB'+26	-	117'EB'+24	LT	132	--	--	STAGE 4
0010	117'EB'+44	-	117'EB'+61	RT	15	--	--	STAGE 4
0010	117'EB'+82	-	118'EB'+03	LT	22	--	--	STAGE 4
0010	121'EB'+22	-	122'EB'+86	RT	105	--	--	STAGE 4
0010	122'EB'+17	-	122'EB'+35	LT	19	--	--	STAGE 4
0010	123'EB'+08	-	123'EB'+87	LT	99	--	--	STAGE 4
0010	123'EB'+09	-	123'EB'+22	RT	47	--	--	STAGE 4
0010	123'EB'+97	-	128'EB'+97	RT	374	--	--	STAGE 4
0010	129'EB'+45	-	131'EB'+31	RT	71	--	--	STAGE 4
0010			UNDISTRIBUTED		20	5	339	
				TOTAL 0010	1,336	360	267,689	

REMOVING ASPHALT 'CONTINUED'

CATEGORY	STATION	TO	STATION	LOCATION	204.0110 REMOVING ASPHALTIC SURFACE SY	204.0115 REMOVING ASPHALTIC SURFACE BUTT JOINTS SY	204.0120 REMOVING ASPHALTIC SURFACE MILLING SY	REMARKS
0020	71'C'+00	-	83'CT'+82	RT	--	--	642	RAMP SHOULDER
0020	71'C'+00	-	76'C'+06	RT	--	--	244	RAMP SHOULDER
0020	75'C'+04	-	76'C'+69	RT	--	--	99	GORE AREA
0020	83'CT'+48	-	85'CT'+62	LT	--	--	113	SHOULDER
0020	82'C'+10	-	92'C'+86	RT	--	--	667	RAMP SHOULDER
0020	90'C'+53	-	184'C'+05	RT	--	--	401	RAMP SHOULDER
0020	180'C'+10	-	184'C'02	RT	--	--	220	RAMP SHOULDER
0020				REST AREA 81	72	--	--	CONCRETE REPAIR AREAS
0020	1'F'+73	-	2'F'+31	LT	32	--	--	SHOULDER
0020	3'F'+29	-	6'F'+84	LT	180	--	--	SHOULDER
				TOTAL 0020	284	0	2,386	
				PROJECT TOTALS	1,620	360	270,075	

FENCING

CATEGORY	STATION	TO	STATION	LOCATION	204.0170 REMOVING FENCE LF	616.0100.01 FENCE WOVEN WIRE (HEIGHT) 4-FT LF
0010	747'SB'+09	-	747'SB'+13	RT	30	30
				TOTAL 0010	30	30

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REMOVING GUARDRAIL

CATEGORY	STATION	TO	STATION	LOCATION	204.0165 REMOVING GUARDRAIL LF
0010	747'SB'+09	-	760'SB'+38	LT	1,322
0010	747'SB'+09	-	751'SB'+01	RT	385
0010	868'SB'+05	-	869'SB'+74	RT	351
0010	847'SB'+40	-	948'SB'+97	RT	326
0010	987'SB'+37	-	1000'SB'+86	LT	248
0010	987'SB'+37	-	1002'SB'+34	RT	398
0010	1014'SB'+52	-	1029'SB'+82	LT	1,529
0010	1072'SB'+83	-	1085'SB'+66	LT	1,304
0010	1072'SB'+83	-	1086'SB'+86	RT	1,404
0010	1009'SB'+55	-	1115'SB'+33	LT	579
0010	1174'SB'+80	-	1177'SB'+34	LT	248
0010	1174'SB'+80	-	1182'SB'+73	RT	791
0010	1258'SB'+63	-	1261'SB'+12	LT	247
0010	1262'SB'+40	-	1264'SB'+90	LT	247
0010	1262'SB'+48	-	1266'SB'+43	RT	396
				TOTAL 0010	9,775

REMOVING STORM SEWER

CATEGORY	STATION	TO	STATION	LOCATION	204.0210 REMOVING MANHOLES EACH	204.0220 REMOVING INLETS EACH	204.0245.01 REMOVING STORM SEWER (SIZE) (01. 12-INCH) LF	204.0245.02 REMOVING STORM SEWER (SIZE) (02. 30-INCH) LF	204.0280 SEALING PIPES EA	* 204.0291.S ABANDONING SEWER CY	REMARKS
0010			747'SB'+25	LT	--	--	25	--	--	--	
0010			872'SB'+50	RT	--	--	--	8	--	--	
0010			988'SB'+42	RT	--	1	16	--	--	--	
0010			988'SB'+45	LT	--	1	80	--	--	--	
0010			1174'SB'+87	RT	--	1	24	--	--	--	
0010			1174'SB'+92	LT	--	1	20	--	--	--	
0010			1262'SB'+47	LT	--	1	24	--	--	--	
				TOTAL 0010	0	5	189	8	0	0	
0020			2'F'+12	25' LT	1	--	--	--	--	--	
0020			2'F'+15	21' LT	--	--	--	--	1	--	
0020			2'F'+60	29' LT	--	1	--	--	--	--	
0020			2'F'+60	LT	--	--	8	--	--	--	TO AVOID WATER LINE EXTENSION
0020	2'F'+63	-	2'F'+81	LT & RT	--	--	--	--	--	5.1	44 LF - 12-INCH RCCP
				TOTAL 0020	1	1	8	0	1	5.1	
				PROJECT TOTALS	1	6	197	8	1	5.1	

* ADDITIONAL QUANTITIES ELSEWHERE

3

EXCAVATION

CATEGORY	STATION	TO	STATION	LOCATION	205.0100 EXCAVATION COMMON CY	(1) UNUSABLE MATERIAL CY	UNEXPANDED FILL CY	(2) EXPANDED FILL CY	(3) MASS ORDINATE (+/-) CY	208.0100 BORROW CY	REMARKS
0010	747'SB'+16	-	763'SB'+28	BEAM GUARD	170	--	245	306	-136	137	
0010	865'SB'+95	-	872'SB'+00	BEAM GUARD	51	--	196	245	-194	194	
0010	945'SB'+31	-	951'SB'+50	BEAM GUARD	31	--	145	181	-150	151	
0010	988'SB'+50	-	1002'SB'+93	BEAM GUARD	67	--	44	55	12	--	
0010	1014'SB'+55	-	1032'SB'+44	BEAM GUARD	103	--	28	35	68	--	
0010	1071'SB'+66	-	1087'SB'+09	BEAM GUARD	151	--	353	441	-290	291	
0010	1109'SB'+55	-	1116'SB'+45	BEAM GUARD	42	--	43	54	-12	12	
0010	1174'SB'+82	-	1183'SB'+88	BEAM GUARD	171	--	135	169	2	--	
0010	1257'SB'+95	-	1261'SB'+12	BEAM GUARD	39	--	6	8	32	--	
0010	1262'SB'+41	-	1267'SB'+74	BEAM GUARD	51	--	34	43	9	--	
0010				IH 39	306	--	--	--	306	--	APPROACH SLAB AND CONCRETE SHOULDERS
0010	747'SB'+24	-	747'SB'+32	LT & RT	55	--	--	--	47	--	DEEP INLET STRUCTURES
0010	1174'SB'+93	-	1175'SB'+04	LT & RT	28	--	--	--	28	--	DEEP INLET STRUCTURES
0010	1260'SB'+93	-	1262'SB'+62	LT	31	--	--	--	31	--	DEEP INLET STRUCTURES
0010	116'EB'+67	-	123'EB'+71	CTH E/J EB	1,349	560	33	41	748	--	
0010	216'WB'+55	-	223'WB'+49	CTH E/J WB	1,354	600	91	114	640	--	
0010	429'LC'+00	-	430'LC'+71	SB ON RAMP CTH E/J	394	140	1	1	253	--	
0010	431'LD'+26	-	433'LD'+23	SB OFF RAMP CTH E/J	431	180	3	4	247	--	
0010				CTH E/J	61	--	--	--	61	--	TEMPORARY WIDENINGS STAGE 1
0010				CTH E/J	25	--	--	--	25	--	TEMPORARY WIDENINGS STAGE 2
				UNDISTRIBUTED	28					15	
				TOTAL 0010	4,938					800	
0020	1'F'+50	-	3'F'+28	REST AREA 82	230	110	--	--	120	--	
0020	3'F'+29	-	6'F'+84	REST AREA 82	156	--	--	--	114	--	
0020	75'TTT'+64	-	75'TTT'+95	REST AREA 81	10	1	--	--	9	--	
0020	85'CT'+43	-	85'CT'+66	REST AREA 81	10	1	--	--	9	--	
				TOTAL 0020	406					0	
				PROJECT TOTALS	5,344					800	

(1) EXISTING ASPHALT AND CONCRETE IS ASSUMED TO BE UNUSABLE MATERIAL
(2) EXPANDED FILL FACTOR = 1.25
(3) THE MASS ORDINATE + OR - QUANTITY CALCULATED FOR THE DIVISION. PLUS QUANTITY INDICATES AN EXCESS OF MATERIAL WITHIN THE DIVISION. MINUS QUANTITY INDICATES A SHORTAGE OF MATERIAL WITHIN THE DIVISION.

FILE NAME : G:\00\00093\00093777\CADD\SHEETSOTHER\030201-MQ.DWG
LAYOUT NAME - 01
PLOT DATE : 8/17/2023 10:03 AM PLOT BY : DAVE KATZNER PLOT NAME : PLOT SCALE : 1" = 1'
WISDOT/CADDS SHEET 42

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BASE AGGREGATE

CATEGORY	STATION	TO	STATION	LOCATION	211.0400 PREPARE FOUNDATION FOR ASPHALTIC SHOULDERS STA	305.0110 BASE AGGREGATE DENSE 3/4-INCH TON	305.0120 BASE AGGREGATE DENSE 1 1/4-INCH TON	624.0100 WATER MGAL	REMARKS
0010	747'SB'+08	-	996'SB'+33		--	1,940	--	20	SHOULDER
0010	747'SB'+08	-	747'SB'+34		--	--	40	1	APPROACH SLAB
0010	747'SB'+24	-	747'SB'+32	LT & RT	--	--	9	1	STORM SEWER
0010	998'SB'+63	-	1173'SB'+42		--	1,360	--	14	SHOULDER
0010	1174'SB'+94	-	1261'SB'+05		--	670	--	7	SHOULDER
0010	1174'SB'+93	-	1175'SB'+04	LT & RT	--	--	5	1	STORM SEWER
0010	1260'SB'+93	-	1262'SB'+62	LT	--	--	5	1	STORM SEWER
0010	1260'SB'+95	-	1261'SB'+25		--	--	50	1	APPROACH SLAB
0010	1262'SB'+55	-	1359'SB'+03		--	760	--	8	SHOULDER
0010	747'SB'+08	-	760'SB'+00	LT & RT	--	140	--	2	BEAMGUARD SHOULDER
0010	999'SB'+00	-	1005'SB'+00	LT & RT	--	100	--	1	BEAMGUARD SHOULDER
0010	1013'SB'+00	-	1034'SB'+00	LT	--	60	--	1	BEAMGUARD SHOULDER
0010	1072'SB'+00	-	1088'SB'+00	LT & RT	--	150	--	2	BEAMGUARD SHOULDER
0010	1108'SB'+00	-	1118'SB'+00	LT	--	100	--	1	BEAMGUARD SHOULDER
0010	1174'SB'+00	-	1184'SB'+00	LT & RT	--	60	--	1	BEAMGUARD SHOULDER
0010	1257'SB'+00	-	1260'SB'+00	LT	--	10	--	1	BEAMGUARD SHOULDER
0010	1262'SB'+00	-	1268'SB'+00	LT & RT	--	70	--	1	BEAMGUARD SHOULDER
0010	747'SB'+08	-	1359'SB'+03	RT	--	450	--	5	STAGE 1A SHOULDER
0010	747'SB'+08	-	1359'SB'+03	RT	--	580	--	6	STAGE 1C SHOULDER
0010	418'LC'+42	-	429'LC'+00	LT & RT	--	50	--	1	SHOULDER
0010	433'LD'+23	-	439'LD'+95	LT & RT	--	30	--	1	SHOULDER
0010	116'EB'+66	-	123'EB'+72		--	110	1,880	27	
0010	216'WB'+55	-	223'WB'+50		--	60	1,800	25	
0010	429'LC'+00	-	430'LC'+71		--	60	490	7	
0010	431'LD'+26	-	433'LD'+23		--	80	630	9	
0010	216'WB'+56	-	217'WB'+25	RT	--	--	37	--	STAGE 1 WIDENING
0010	217'WB'+02	-	217'WB'+27	LT	--	--	22	--	STAGE 1 WIDENING
0010	217'WB'+42	-	222'WB'+53	LT	5	13	--	--	STAGE 1 WIDENING
0010	217'WB'+82	-	218'WB'+04	RT	--	--	10	--	STAGE 1 WIDENING
0010	222'WB'+18	-	222'WB'+36	RT	--	--	9	--	STAGE 1 WIDENING
0010	223'WB'+09	-	223'WB'+88	RT	--	--	45	--	STAGE 1 WIDENING
0010	225'WB'+14	-	228'WB'+30	LT	4	8	--	--	STAGE 1 WIDENING
0010	229'WB'+60	-	230'WB'+72	LT	2	5	--	--	STAGE 1 WIDENING
0010	116'EB'+26	-	116'EB'+89	LT	--	--	22	--	STAGE 2 WIDENING
0010	117'EB'+44	-	117'EB'+62	RT	--	--	7	--	STAGE 2 WIDENING
0010	123'EB'+09	-	123'EB'+23	RT	--	--	21	--	STAGE 2 WIDENING
0010	123'EB'+97	-	128'EB'+97	RT	5	13	--	--	STAGE 2 WIDENING
0010	129'EB'+45	-	131'EB'+31	RT	3	6	--	--	STAGE 2 WIDENING
0010				UNDISTRIBUTED	--	555	668	10	
				TOTAL 0010	19	7,440	5,750	155	
0020	71'C'+00	-	76'C'+00	LT	--	20	--	1	OUTSIDE SHOULDER
0020	71'C'+00	-	83'CT'+80	RT	--	78	--	1	INSIDE SHOULDER
0020	75'C'+02	-	76'C'+09	RT	2	--	--	--	GORE AREA
0020	82'C'+00	-	93'C'+00	LT	6	44	--	1	OUTSIDE SHOULDER
0020	83'CT'+48	-	85'CT'+66	LT	--	9	--	1	OUTSIDE SHOULDER
0020	90'C'+53	-	184'C'+05	RT	--	47	--	1	OUTSIDE SHOULDER
0020	180'C'+09	-	184'C'+00	LT	--	26	--	1	INSIDE SHOULDER
0020				REST AREA 81	--	--	180	3	PAVEMENT REPAIRS
0020	1'F'+50	-	3'F'+28	LT	--	3	170	2	
0020	1'F'+50	-	1'F'+75	RT	--	--	6	1	
0020	3'F'+29	-	6'F'+88	LT & RT	--	1	150	2	
0020				UNDISTRIBUTED		32	64	1	
				TOTAL 0020	8	260	570	15	
				PROJECT TOTALS	27	7,700	6,320	170	

DIAMOND GRINDING

CATEGORY	STATION	TO	STATION	LOCATION	420.1000 CONTINUOUS DIAMOND GRINDING CONCRETE PAVEMENT SY
0020	71'C'+05	-	184'C'+05	MAIN RAMP	5,670
0020	74'TTT'+00	-	81'TTT'+35	INSIDE TRUCK PARKING LANE	1,170
0020	77'TTT'+00	-	83'CT'+46	OUTSIDE PARKING LANE	1,460
				TOTAL 0020	8,300

ASPHALT FLUMES

CATEGORY	STATION	LOCATION	465.0315 ASPHALTIC FLUMES SY
0010	119'EB'+22	RT	6
0010	218'WB'+71	LT	9
0010	430'LC'+07	LT	14
0010	430'LC'+39	RT	17
0010	431'LD'+74	LT	19
		TOTAL 0010	65
0020	3'F'+46	RT	9
0020	5'F'+13	RT	7
0020	6'F'+04	RT	7
		TOTAL 0020	23
		PROJECT TOTALS	88

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CONCRETE ITEMS

CATEGORY	STATION	TO	STATION	LOCATION	415.0090 CONCRETE PAVEMENT 9-INCH SY	415.0410 CONCRETE PAVEMENT APPROACH SLAB SY	416.0610 DRILLED TIE BARS EACH	416.0620 DRILLED DOWEL BARS EACH	416.0750.S CONCRETE PAVEMENT PARTIAL DEPTH REPAIR JOINT REPAIR LF	416.0752.S CONCRETE PAVEMENT PARTIAL DEPTH REPAIR CRACK REPAIR LF	416.0754.S CONCRETE PAVEMENT PARTIAL DEPTH REPAIR SURFACE REPAIR SF	416.0756.S CONCRETE PAVEMENT PARTIAL DEPTH REPAIR EDGE REPAIR LF	416.0758.S CONCRETE PAVEMENT PARTIAL DEPTH REPAIR FULL DEPTH ADJUSTMENT SF	416.1710 CONCRETE PAVEMENT REPAIR SY	416.1720 CONCRETE PAVEMENT REPLACEMENT SY	SPV.0090.01 SPECIAL (01. CONCRETE CURB AND GUTTER REPAIR) LF
0010	747'SB'+09	-	747'SB'+15	IH 39	31	40	--	--	--	--	--	--	--	--	--	--
0010	998'SB'+28	-	998'SB'+63	IH 39	59	--	26	--	--	--	--	--	--	--	--	--
0010	1173'SB'+42	-	1173'SB'+61	IH 39	29	44	--	--	--	--	--	--	--	--	--	--
0010	1174'SB'+76	-	1174'SB'+76	IH 39	26	44	--	--	--	--	--	--	--	--	--	--
0010	1261'SB'+05	-	1261'SB'+25	IH 39	30	47	--	--	--	--	--	--	--	--	--	--
0010	1262'SB'+36	-	1262'SB'+56	IH 39	20	--	8	--	--	--	--	--	--	--	--	--
				TOTAL 0010	195	175	34	0	0	0	0	0	0	0	0	0
0020	71'C'+00	-	75'C'+80	REST AREA 81	--	--	8	55	--	--	--	--	--	23	--	--
0020	75'C'+80	-	82'C'+10	REST AREA 81	--	--	199	197	--	197	--	--	--	30	1,160	52
0020	82'C'+10	-	184'C'+00	REST AREA 81	--	--	27	312	--	--	--	--	--	110	140	--
0020	91'C'+07	-	91'C'+37	REST AREA 81	50	--	--	24	--	--	--	--	--	--	--	--
0020	75'TTT'+00	-	81'TTT'+35	REST AREA 81	--	--	368	192	--	--	--	--	--	155	205	24
0020	77'TTT'+24	-	83'CT'+49	TRUCK PARKING AREA	--	--	--	--	--	505	48	--	--	--	--	--
0020	79'CT'+41	-	83'CT'+45	REST AREA 81	--	--	664	207	--	--	--	--	--	250	82	--
0020	83'CT'+45	-	86'CT'+56	REST AREA 81	--	--	228	428	--	--	--	--	--	--	831	--
0020	1'F'+73	-	3'F'+28	REST AREA 82	535	--	88	80	--	--	--	--	--	--	--	--
0020	3'F'+51	-	6'F'+78	REST AREA 82	198	--	131	--	--	--	--	--	--	--	--	--
0020				UNDISTRIBUTED	32	--	43	35	10	28	22	10	10	82	132	14
				TOTAL 0020	815	0	1,756	1,530	10	730	70	10	10	650	2,550	90
				PROJECT TOTALS	1,010	175	1,790	1,530	10	730	70	10	10	650	2,550	90

TEMPORARY ASPHALT

CATEGORY	STATION	TO	STATION	LOCATION	465.0125 ASPHALTIC SURFACE TEMPORARY TON	REMARKS
0010				IH 39	57	STAGE 1 RUMBLE STRIP REMOVAL
0010	216'WB'+56	-	217'WB'+25	RT	19	STAGE 1
0010	217'WB'+37	-	222'WB'+53	LT	129	STAGE 1
0010	217'WB'+82	-	218'WB'+04	RT	5	STAGE 1
0010	222'WB'+18	-	222'WB'+36	RT	5	STAGE 1
0010	223'WB'+09	-	223'WB'+88	RT	23	STAGE 1
0010	225'WB'+14	-	228'WB'+30	LT	43	STAGE 1
0010	116'EB'+26	-	116'EB'+88	LT	12	STAGE 2
0010	117'EB'+44	-	117'EB'+61	RT	4	STAGE 2
0010	123'EB'+09	-	123'EB'+22	RT	11	STAGE 2
0010	123'EB'+97	-	128'EB'+97	RT	85	STAGE 2
0010	129'EB'+45	-	131'EB'+31	RT	17	STAGE 2
				TOTAL 0010	410	

PATCHING

CATEGORY	STATION	TO	STATION	LOCATION	465.0110 ASPHALTIC SURFACE PATCHING TON	SPV.0180.01 SPECIAL (01. REMOVING DISTRESSED ASPHALTIC SURFACE MILLING) SY	REMARKS
0010	747'SB'+09	-	1359'SB'+03	UNDISTRIBUTED	510	2,230	
0010	747'SB'+09	-	1359'SB'+03	UNDISTRIBUTED	300	--	SEE NOTE BELOW
				TOTAL 0010	810	2,230	

NOTE: PATCHING SURFACE PRIOR TO MILLING & ADJACENT TO CONCRETE APPROACH SLAB

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						HMA						
					455.0605	460.5224	460.6223	460.6424	460.7223	460.8424	465.0105	
					TACK COAT	HMA PAVEMENT	HMA PAVEMENT	HMA PAVEMENT	HMA PAVEMENT	HMA PAVEMENT	ASPHALTIC	
						4 LT 58-28 S	3 MT 58-28 S	4 MT 58-28 H	3 HT 58-28 S	4 SMA 58-28 H	SURFACE	
CATEGORY	STATION	TO	STATION	LOCATION	GAL	TON	TON	TON	TON	TON	TON	REMARKS
0010	747'SB'+24	-	931'SB'+83	INSIDE LN & SHOULDER	4,000	--	--	--	6,100	3,300	--	
0010	747'SB'+24	-	931'SB'+83	OUTSIDE LN	3,000	--	--	--	4,600	2,500	--	
0010	747'SB'+24	-	931'SB'+83	OUTSIDE SHOULDER	2,500	4,700	--	--	--	--	--	
0010	931'SB'+83	-	996'SB'+33	INSIDE LN & SHOULDER	1,400	--	--	--	1,500	1,200	--	
0010	931'SB'+83	-	996'SB'+33	OUTSIDE LN	1,100	--	--	--	1,100	860	--	
0010	931'SB'+83	-	970'SB'+52	OUTSIDE SHOULDER	520	980	--	--	--	--	--	
0010	970'SB'+52	-	418'LC'+42	RAMP OUTSIDE SHOULDER	130	250	--	--	--	--	--	
0010	980'SB'+23	-	996'SB'+33	OUTSIDE SHOULDER	210	380	--	--	--	--	--	
0010	998'SB'+63	-	1014'SB'+03	INSIDE LN & SHOULDER	350	--	--	--	370	290	--	
0010	998'SB'+63	-	1014'SB'+03	OUTSIDE LN	250	--	--	--	270	210	--	
0010	998'SB'+63	-	1009'SB'+45	OUTSIDE SHOULDER	160	300	--	--	--	--	--	
0010	439'LD'+95	-	1011'SB'+58	RAMP OUTSIDE SHOULDER	40	70	--	--	--	--	--	
0010	1011'SB'+58	-	1014'SB'+03	OUTSIDE SHOULDER	40	70	--	--	--	--	--	
0010	1014'SB'+03	-	1173'SB'+42	INSIDE LN & SHOULDER	3,500	--	--	--	5,300	2,900	--	
0010	1014'SB'+03	-	1173'SB'+42	OUTSIDE LN	2,600	--	--	--	4,000	2,200	--	
0010	1014'SB'+03	-	1173'SB'+42	OUTSIDE SHOULDER	2,200	4,100	--	--	--	--	--	
0010	1174'SB'+95	-	1261'SB'+03	INSIDE LN & SHOULDER	1,900	--	--	--	2,900	1,600	--	
0010	1174'SB'+95	-	1261'SB'+03	OUTSIDE LN	1,400	--	--	--	2,200	1,200	--	
0010	1174'SB'+95	-	1261'SB'+03	OUTSIDE SHOULDER	1,200	2,200	--	--	--	--	--	
0010	1262'SB'+55	-	1359'SB'+03	INSIDE LN & SHOULDER	2,100	--	--	--	3,200	1,800	--	
0010	1262'SB'+55	-	1359'SB'+03	OUTSIDE LN	1,600	--	--	--	2,400	1,300	--	
0010	1262'SB'+55	-	1322'SB'+73	OUTSIDE SHOULDER	900	1,600	--	--	--	--	--	
0010	1322'SB'+73	-	71'C'+00	RAMP OUTSIDE SHOULDER	190	350	--	--	--	--	--	
0010	1332'SB'+79	-	1354'SB'+60	OUTSIDE SHOULDER	320	600	--	--	--	--	--	
0010	184'C'+00	-	1359'SB'+03	RAMP OUTSIDE SHOULDER	80	150	--	--	--	--	--	
0010	970'SB'+51	-	418'LC'+42	LT	220	--	240	180	--	--	--	SB ON RAMP
0010	439'LD'+95	-	1011'SB'+58	LT	90	--	100	80	--	--	--	SB OFF RAMP
0010	1325'SB'+95	-	71'C'+00	LT	170	--	250	140	--	--	--	ON RAMP AT REST AREA 81
0010	184'C'+00	-	1356'SB'+87	LT	110	--	160	90	--	--	--	OFF RAMP AT REST AREA 81
0010	116'EB'+67	-	123'WB'+71	CTH E/J EB	140	--	460	270	--	--	--	
0010	216'WB'+55	-	223'WB'+49	CTH E/J WB	150	--	470	270	--	--	--	
0010	429'LC'+00	-	430'LC'+71	IH 39 SB ON RAMP	40	--	120	70	--	--	--	
0010	431'LD'+26	-	433'LD'+23	IH 39 SB OFF RAMP	50	--	150	90	--	--	--	
0010				MAINTENANCE CROSSOVERS	150	--	--	--	--	--	300	
0010	229'WB'+60	-	230'WB'+72	LT	--	--	--	--	--	--	30	STAGE 1
0010	418'LC'+42	-	429'LC'+00	LT & RT	120	220	--	--	--	--	--	SHOULDER
0010	433'LD'+23	-	439'LD'+95	LT & RT	80	140	--	--	--	--	--	SHOULDER
0010				UNDISTRIBUTED	102	80	50	110	60	40	--	
				TOTAL 0010	33,112	16,190	2,000	1,300	34,000	19,400	330	
0020	71'C'+00	-	83'CT'+83	RT	80	160	--	--	--	--	--	SHOULDER
0020	71'C'+00	-	75'C'+79	LT	29	60	--	--	--	--	--	SHOULDER
0020	74'C'+85	-	76'C'+32	RT	16	30	--	--	--	--	--	SHOULDER
0020	83'CT'+44	-	85'CT'+56	LT	17	40	--	--	--	--	--	SHOULDER
0020	81'C'+89	-	92'C'+89	LT	127	240	--	--	--	--	--	SHOULDER
0020	90'C'+53	-	184'C'+00	RT	48	100	--	--	--	--	--	SHOULDER
0020	180'C'+00	-	184'C'+00	LT	27	50	--	--	--	--	--	SHOULDER
0020	1'F'+73	-	2'F'+31	LT	2	--	--	--	--	--	10	SHOULDER
0020	3'F'+29	-	3'F'+51	LT	1	--	--	--	--	--	10	SHOULDER
0020	6'F'+78	-	6'F'+84	LT	1	--	--	--	--	--	10	SHOULDER
				TOTAL 0020	348	680	0	0	0	0	30	
				PROJECT TOTALS	33,460	16,870	2,000	1,300	34,000	19,400	360	

HMA MIXTURE ACCEPTANCE

1166-04-85								
							QUALITY MANAGEMENT PROGRAM TO BE USED	
LOCATION	STA - STA	MIXTURE USE	UNDERLYING SURFACE	BID ITEM	TONS	THICKNESS	MIXTURE ACCEPTANCE	DENSITY ACCEPTANCE
12 FOOT DRIVING LANES	747'SB'+08 - 1359'SB'+03	UPPER LAYER	HMA 4 HT 58-28 S	4 SMA 58-28 H	15,990	1.75"	QMP AS PER SS 460	INCENTIVE DENSITY HMA PAVEMENT 460.2000
SHOULDER LT	747'SB'+08 - 1359'SB'+03	UPPER LAYER	HMA 4 LT 58-28 S	HMA 4 LT 58-28 S	6,662	1.75"	QMP AS PER SS 460	INCENTIVE DENSITY HMA PAVEMENT 460.2000
SHOULDER RT	747'SB'+08 - 1359'SB'+03	UPPER LAYER	HMA 4 HT 58-28 S	4 SMA 58-28 H	3,410	1.75"	QMP AS PER SS 460	INCENTIVE DENSITY HMA PAVEMENT 460.2000
MAINTENANCE CROSSOVERS	VARIOUS	UPPER LAYER	EXISTING ASPHALT	ASPHALTIC SURFACE	300	2"	SS 465	ACCEPTED BY ORDINARY COMPACTION
CTH E/J, RAMPS	VARIOUS	UPPER LAYER	HMA 3 MT 58-28 S	HMA 4 MT 58-28 H	810	2"	QMP AS PER SS 460	INCENTIVE DENSITY HMA PAVEMENT 460.2000
CTH E/J & REST AREA 81 RAMPS AT IH 39	VARIOUS	UPPER LAYER	HMA 4 HT 58-28 S	HMA 4 MT 58-28 H	490	1.75"	QMP AS PER SS 460	INCENTIVE DENSITY HMA PAVEMENT 460.2000
CTH E/J & REST AREA 81 RAMP SHOULDERS	VARIOUS	UPPER LAYER	HMA 4 LT 58-28 S	HMA 4 LT 58-28 S	485	2	QMP AS PER SS 460	INCENTIVE DENSITY HMA PAVEMENT 460.2000
12 FOOT DRIVING LANES	747'SB'+08 - 1359'SB'+03	LOWER LAYER	EXISTING ASPHALT	HMA 4 HT 58-28 S	28,492	2.25" - 3.25"	PWL QMP CORE ONLY, INCENTIVE AIR VOIDS HMA PAVEMENT SPV.0055.02	PWL CORE ONLY, INCENTIVE DENSITY PWL HMA PAVEMENT SPV.0055.01
SHOULDER LT	747'SB'+08 - 1359'SB'+03	LOWER LAYER	EXISTING ASPHALT	HMA 4 LT 58-28 S	9,168	1.75"	QMP AS PER SS 460	INCENTIVE DENSITY HMA PAVEMENT 460.2000
SHOULDER RT	747'SB'+08 - 1359'SB'+03	LOWER LAYER	EXISTING ASPHALT	HMA 4 HT 58-28 S	5,508	1.75"	PWL QMP CORE ONLY, INCENTIVE AIR VOIDS HMA PAVEMENT SPV.0055.02	DEPARTMENT ACCEPTANCE NOT ELIGIBLE FOR INCENTIVE
CTH E/J, RAMPS	VARIOUS	LOWER LAYER	BASE AGGREGATE & EXISTING ASPHALT	HMA 3 MT 58-28 S	1,250	3.5"	QMP AS PER SS 460	INCENTIVE DENSITY HMA PAVEMENT 460.2000
CTH E/J & REST AREA 81 RAMPS AT IH 39	VARIOUS	LOWER LAYER	EXISTING ASPHALT	HMA 3 MT 58-28 S	750	2.25" - 3.25"	QMP AS PER SS 460	INCENTIVE DENSITY HMA PAVEMENT 460.2000
CTH E/J & REST AREA 81 RAMP SHOULDERS	VARIOUS	LOWER LAYER	BASE AGGREGATE & EXISTING ASPHALT	HMA 4 LT 58-28 S	555	2	QMP AS PER SS 460	INCENTIVE DENSITY HMA PAVEMENT 460.2000
ASPHALTIC SURFACE	VARIOUS	LOWER & UPPER LAYERS	HMA SURFACE OR BASE AGGREGATE	ASPHALTIC SURFACE	370	VARIES	SS 465	ACCEPTED BY ORDINARY COMPACTION

NOTE: DEPARTMENT ACCEPTANCE CORES WILL BE CUT AND TESTED BY THE CONTRACTOR UNDER THE SUPERVISION OF THE ENGINEER. THE DEPARTMENT WILL MAINTAIN CUSTODY OF THE CORES.

RUMBLE STRIPS

CATEGORY	STATION	TO	STATION	LOCATION	465.0510 ASPHALTIC RUMBLE STRIPS, SHOULDER DIVIDED ROADWAY LF
0010	747'SB'+25	-	996'SB'+34	RT	24,909
0010	747'SB'+25	-	977'SB'+00	LT	22,975
0010	984'SB'+75	-	996'SB'+34	LT	1,159
0010	998'SB'+64	-	1173'SB'+57	RT	17,493
0010	998'SB'+64	-	1006'SB'+95	LT	831
0010	1012'SB'+59	-	1173'SB'+60	LT	16,101
0010	1174'SB'+76	-	1261'SB'+05	RT	8,629
0010	1174'SB'+78	-	1261'SB'+05	LT	8,627
0010	1262'SB'+35	-	1328'SB'+25	LT	6,590
0010	1262'SB'+40	-	1359'SB'+03	RT	9,663
0010	1336'SB'+45	-	1352'SB'+29	LT	1,584
0010	1358'SB'+17	-	1359'SB'+03	LT	84
				TOTAL 0010	118,645

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CULVERTS

CATEGORY	STATION	LOCATION	ELEV.	203.0100 REMOVING SMALL PIPE CULVERTS EACH	520.8700 CLEANING CULVERT PIPES EACH	522.0124 CULVERT PIPE REINFORCED CONCRETE CLASS III 24-INCH LF	522.0436 CULVERT PIPE REINFORCED CONCRETE CLASS IV 36-INCH LF	522.0430 CULVERT PIPE REINFORCED CONCRETE CLASS IV 30-INCH LF	522.1024 APRON ENDWALLS FOR CULVERT PIPE REINFORCED CONCRETE 24-INCH EACH	522.1030 APRON ENDWALLS FOR CULVERT PIPE REINFORCED CONCRETE 30-INCH EACH	522.1036 APRON ENDWALLS FOR CULVERT PIPE REINFORCED CONCRETE 36-INCH EACH	524.0130 CULVERT PIPE SALVAGED 30-INCH LF	524.0618 APRON ENDWALLS FOR CULVERT PIPE SALVAGED 18-INCH EACH	524.0630 APRON ENDWALLS FOR CULVERT PIPE SALVAGED 30-INCH EACH	SPV.0090.04 SPECIAL (04. UV GRP CIPP 30-INCH) LF
0010	872'SB'+34	LT/RT	--	--	--	--	--	--	--	--	--	--	--	--	100
0010	981'SB'+60	110.62' LT	866.64	--	--	--	--	--	--	--	--	24	--	1	--
0010	998'SB'+45	109.5' LT	856.50	--	--	--	--	--	--	--	--	--	--	1	--
0010	430'LC'+15	35' RT	853.00	1	--	--	--	64	--	1	--	--	--	--	--
0010	996'SB'+83	282.2' LT	852.70	--	--	--	--	--	--	1	--	--	--	--	--
0010	431'LD'+57	49.2' LT	850.90	1	--	--	90	--	--	--	1	--	--	--	--
0010	431'LD'+79	38.4' RT	851.10	--	--	--	--	--	--	--	1	--	--	--	--
		TOTAL 0010		2	0	0	90	64	0	2	2	24	0	2	100
0020	84'C'+82	REST AREA 81	--	--	1	--	--	--	--	--	--	--	--	--	--
0020	91'C'+22	20.5' LT	939.50	1	--	58	--	--	1	--	--	--	--	--	--
0020	91'C'+22	35.5' RT	939.60	--	--	--	--	--	1	--	--	--	--	--	--
0020	84'CT'+73	34.06' LT	946.69	--	--	--	--	--	--	--	--	--	1	--	--
0020	84'CT'+72	31.08' RT	945.79	--	--	--	--	--	--	--	--	--	1	--	--
		TOTAL 0020		1	1	58	0	0	2	0	0	0	2	0	0
		PROJECT TOTALS		3	1	58	90	64	2	2	2	24	2	2	100

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SIDEWALK

CATEGORY	STATION	TO	STATION	LOCATION	602.0405 CONCRETE SIDEWALK 4-INCH SF	602.0415 CONCRETE SIDEWALK 6-INCH SF	602.0505 CURB RAMP DETECTABLE WARNING FIELD YELLOW SF
0010	116'EB'+88	-	117'EB'+20	MEDIAN	270	--	--
0010	117'EB'+86	-	122'EB'+31	MEDIAN	4,150	--	--
0010	123'EB'+11	-	123'EB'+27	MEDIAN	130	--	--
0010	123'EB'+12	-	123'EB+19	ISLAND	270	--	--
0010	431'LD'+28	-	431'LD'+66	ISLAND	280	--	--
				TOTAL 0010	5,100	0	0
0020	77'C'+97	-	78'C'+65	LT	--	570	10
0020	78'C'+48	-	78'C'+68	RT	--	397	20
0020	78'C'+99	-	79'C'+18	LT	--	203	10
0020	79'TTT'+45	-	79'TTT'+57	LT	--	80	--
0020	1'F'+49	-	1'F'+65	RT	--	12	--
0020				UNDISTRIBUTED	--	90	--
				TOTAL 0020	0	1,352	40
				PROJECT TOTALS	5,100	1,352	40

SLOPE PAVING

CATEGORY	STATION	TO	STATION	LOCATION	604.0500 SLOPE PAVING CRUSHED AGGREGATE SY
0010	119'EB'+47	-	119'EB'+91	RT	25
0010	120'EB'+39	-	120'EB'+83	RT	25
0010	219'WB'+43	-	219'WB'+87	LT	25
0010	220'WB'+36	-	220'WB'+80	LT	25
				TOTAL 0010	100

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CURB & GUTTER

CATEGORY	STATION	TO	STATION	LOCATION	601.0407 CONCRETE CURB & GUTTER 18-INCH TYPE D LF	601.0409 CONCRETE CURB & GUTTER 30-INCH TYPE A LF	601.0411 CONCRETE CURB & GUTTER 30-INCH TYPE D LF	601.0551 CONCRETE CURB & GUTTER 4-INCH SLOPED 36-INCH TYPE A LF	601.0557 CONCRETE CURB & GUTTER 6-INCH SLOPED 36-INCH TYPE D LF	601.0588 CONCRETE CURB & GUTTER 4-INCH SLOPED 36-INCH TYPE TBT LF	601.0590 CONCRETE CURB & GUTTER 4-INCH SLOPED 36-INCH TYPE TBTT LF	620.0300 CONCRETE MEDIAN SLOPED NOSE SF	650.5500 CONSTRUCTION STAKING CURB GUTTER AND CURB & GUTTER LF	SPV.0090.02 SPECIAL (02. CURB & GUTTER 42-INCH SPECIAL) LF	REMARKS
0010	747'SB'+18	-	747'SB'+32	LT	--	--	--	--	--	8	6	--	14	--	
0010	747'SB'+18	-	747'SB'+32	RT	--	--	--	--	--	8	6	--	14	--	
0010	948'SB'+40	-	998'SB'+52	RT	--	--	--	--	--	--	14	--	14	--	
0010	948'SB'+43	-	998'SB'+60	LT	--	--	--	--	--	--	17	--	17	--	
0010	1174'SB'+86	-	1174'SB'+99	RT	--	--	--	--	--	7	7	--	14	--	
0010	1174'SB'90	-	1175'SB'+04	LT	--	--	--	--	--	10	4	--	14	--	
0010	1260'SB'+93	-	1261'SB'+07	LT	--	--	--	--	--	11	3	--	14	--	
0010	1262'SB'+93	-	1262'SB'+58	LT	--	--	--	--	--	3	11	--	14	--	
0010	116'EB'+25	-	117'EB'+16	LT	--	--	91	--	--	--	--	--	91	--	CTH E/J
0010	116'EB'+67	-	117'EB'+26	RT	--	--	91	--	--	--	--	--	91	--	CTH E/J
0010			117'EB'+18	LT	--	--	--	--	--	--	--	62	--	--	CTH E/J - TYPE 1
0010	117'EB'+45	-	117'EB'+61	RT	--	--	--	--	25	--	--	--	25	--	CTH E/J
0010			117'EB'+85	LT	--	--	--	--	--	--	--	58	--	--	CTH E/J - TYPE 1
0010	117'EB'+88	-	122'EB'+29	LT	--	--	441	--	--	--	--	--	441	--	CTH E/J
0010	119'EB'+25	-	121'EB'+00	RT	--	--	175	--	--	--	--	--	175	--	CTH E/J
0010			122'EB'+32	LT	--	--	--	--	--	--	--	66	--	--	CTH E/J - TYPE 1
0010	123'EB'+10	-	123'EB'+22	RT	82	--	--	--	--	--	--	63	82	--	NB OFF RAMP ISLAND - TYPE 1
0010			123'EB'+13	LT	--	--	--	--	--	--	--	77	--	--	CTH E/J - TYPE 1
0010	123'EB'+16	-	123'EB'+72	LT	--	--	57	--	--	--	--	--	57	--	CTH E/J
0010	216'WB'+53	-	217'WB'+06	LT	--	--	73	--	--	--	--	--	73	--	CTH E/J
0010	216'WB'+55	-	217'WB'+18	RT	--	--	64	--	--	--	--	--	64	--	CTH E/J
0010			217'WB'+11	LT	82	--	--	--	--	--	--	64	82	--	SB OFF RAMP ISLAND - TYPE 1
0010	217'WB'+90	-	222'WB'+30	RT	--	--	442	--	--	--	--	--	442	--	CTH E/J
0010	218'WB'+75	-	221'WB'+00	LT	--	--	226	--	--	--	--	--	226	--	CTH E/J
0010	223'WB'+18	-	223'WB'+70	RT	--	--	70	--	--	--	--	--	70	--	CTH E/J
				TOTAL 0010	164	0	1,730	0	25	47	68	390	2,034	0	
0020	75'C'+78	-	76'C'+26	RT	--	47	--	--	--	--	--	--	47	--	REST AREA 81
0020	75'C'+93	-	76'C'+03	LT	--	10	--	--	--	--	--	--	10	--	REST AREA 81
0020	77'C'+08	-	77'C'+20	RT	--	--	--	--	--	--	--	--	12	12	REST AREA 81
0020	78'C'+48	-	78'C'+68	RT	--	20	--	--	--	--	--	--	20	--	REST AREA 81
0020	78'C'+68	-	82'C'+15	RT	--	--	--	--	--	--	--	--	347	347	REST AREA 81
0020	78'C'+48	-	78'C'+65	LT	--	19	--	--	--	--	--	--	19	--	REST AREA 81
0020	78'C'+98	-	79'C'+18	LT	--	20	--	--	--	--	--	--	20	--	REST AREA 81
0020	77'TTT'+37	-	77'TTT'+58	LT	--	--	--	--	--	--	--	--	21	21	REST AREA 81
0020	78'TTT'+84	-	79'TTT'+04	LT	--	20	--	--	--	--	--	--	20	--	REST AREA 81
0020	79'TTT'+45	-	79'TTT'+57	LT	--	--	--	--	--	--	--	--	12	12	REST AREA 81
0020	81'TTT'+32	-	81'TTT'+45	LT	--	17	--	--	--	--	--	--	17	--	REST AREA 81
0020	84'C'+73	-	84'C'+79	RT	--	6	--	--	--	--	--	--	6	--	REST AREA 81
0020	85'C'+10	-	85'C'+28	RT	--	18	--	--	--	--	--	--	18	--	REST AREA 81
0020	3'F'+51	-	6'F'+79	RT	--	--	--	327	--	--	--	--	327	--	REST AREA 82
0020				UNDISTRIBUTED	--	43	--	--	--	--	--	--	73	30	REST AREA 81
				TOTAL 0020	0	220	0	327	0	0	0	0	969	422	
				PROJECT TOTALS	164	220	1,730	327	25	47	68	390	3,003	422	

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STORM SEWER

CATEGORY	FROM STRUCTURE		TO STRUCTURE	LOCATION	520.8000 CONCRETE COLLARS FOR PIPE EACH	521.1012 APRON ENDWALLS FOR CULVERT PIPE STEEL 12-INCH EACH	608.3012 STORM SEWER PIPE CLASS III-A 12-INCH LF	608.0330 STORM SEWER PIPE REINFORCED CONCRETE CLASS III 30-INCH LF
0010	1.1	-	1.0	IH 39 SB	--	1	19	--
0010	1.3	-	1.2	IH 39 SB	--	1	35	--
0010	2.0	-	2.1	IH 39 SB	--	1	80	--
0010	2.2	-	2.3	IH 39 SB	--	1	35	--
0010	3.1	-	3.0	IH 39 SB	--	1	29	--
0010	3.2	-	3.3	IH 39 SB	--	1	29	--
0010	4.1	-	4.0	IH 39 SB	--	1	30	--
0010	4.3	-	4.2	IH 39 SB	--	1	25	--
0010				872+35 RT	2	--	--	--
0010				872+50 RT	--	--	--	8
				TOTAL 0010	2	8	282	8

GUARDRAIL

CATEGORY	STATION	TO	STATION	LOCATION	614.0220 STEEL THRIE BEAM BULLNOSE TERMINAL EACH	614.0230 STEEL THRIE BEAM LF	614.2300 MGS GUARDRAIL 3 LF	614.2500 MGS THRIE BEAM TRANSITION LF	614.2610 MGS GUARDRAIL TERMINAL EAT EACH	614.2620 MGS GUARDRAIL TERMINAL TYPE 2 EACH	SPV.0090.05 SPECIAL (05. SALVAGING AND REINSTALLING RAIL) LF
0010	747'SB'+09	-	762'SB'+08	LT	--	--	1,400	39.4	1	--	--
0010	747'SB'+09	-	750'SB'+33	RT	--	--	225	39.4	1	--	45.6
0010	868'SB'+05	-	869'SB'+83	RT	2	125	--	--	--	--	--
0010	947'SB'+40	-	948'SB'+97	RT	2	100	--	--	--	--	--
0010	998'SB'+37	-	1001'SB'+80	LT	--	--	250	39.4	1	--	--
0010	998'SB'+37	-	1001'SB'+41	RT	--	--	212.5	39.4	1	--	45.6
0010	1014'SB'+54	-	1031'SB'+32	LT	--	--	1,625	--	1	1	--
0010	1072'SB'+62	-	1085'SB'+02	LT	--	--	1,187.5	--	1	1	--
0010	1072'SB'+25	-	1085'SB'+90	RT	--	--	1,312.5	--	1	1	--
0010	1109'SB'+55	-	1115'SB'+33	LT	--	--	525	--	1	1	--
0010	1174'SB'+86	-	1176'SB'+04	LT	--	--	25	39.4	1	--	--
0010	1174'SB'+81	-	1182'SB'+99	RT	--	--	725	39.4	1	--	45.6
0010	1257'SB'+94	-	1261'SB'+12	LT	--	--	275	39.4	--	1	--
0010	1262'SB'+40	-	1265'SB'+73	LT	--	--	237.5	39.4	1	--	--
0010	1262'SB'+48	-	1266'SB'+40	RT	--	--	300	39.4	1	--	45.6
				TOTAL 0010	4	225	8,300	354.6	12	5	182.4

RIPRAP

CATEGORY	STATION	TO	STATION	LOCATION	606.0200 RIPRAP MEDIUM CY	606.0300 RIPRAP HEAVY CY	645.0120 GEOTEXTILE TYPE HR SY
0010	746'SB'+77	-	747'SB'+06	RT	7	--	14
0010	747'SB'+19	-	747'SB'+23	LT	3	--	6
0010	749'SB'+50	-	750'SB'+75	LT	--	190	320
0010	997'SB'+86	-	998'SB'+24	RT	12	--	26
0010	998'SB'+39	-	998'SB'+48	LT	2	--	8
0010	1261'SB'+00	-	1261'SB'+07	LT	3	--	7
0010	1262'SB'+45	-	1262'SB'+52	LT	4	--	8
0010			119'EB'+22	RT	2	--	4
0010			218'WB'+71	LT	2	--	4
0010			430'LC'+07	LT	6	--	13
0010			430'LC'+39	RT	4	--	7
0010			431'LD'+74	LT	4	--	8
0010			UNDISTRIBUTED		9	10	17
				TOTAL 0010	58	200	442
0020			3'F'+46	RT	3	--	6
0020			6'F'+04	RT	19	--	42
				TOTAL 0020	22	0	48
				PROJECT TOTALS	80	200	490

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STORM SEWER STRUCTURES

CATEGORY	STRUCTURE I.D. #	STATION	LOCATION	611.0430 RECONSTRUCTING INLETS EACH	611.0627 INLET COVERS TYPE HM EACH	611.0654 INLET COVERS TYPE V EACH	611.3225 INLETS 2X2.5-FT EACH	611.8115 ADJUSTING INLET COVERS EACH	611.8120.S COVER PLATES TEMPORARY EACH	RIM** ELEVATION	INVERT*** ELEVATION	DEPTH**** FT
0010	1.1	747'SB'+23	33.5' LT	--	--	1	1	--	--	886.30	879.90	5.32
0010	1.3	747'SB'+23	8.0' RT	--	--	1	1	--	--	886.49	880.00	5.41
0010	2.0	998'SB'+45	33.0' LT	--	--	1	1	--	--	879.97	873.58	5.31
0010	2.2	998'SB'+46	6.0' RT	--	--	1	1	--	--	880.18	873.50	5.60
0010	3.1	1174'SB'+94	34.0' LT	--	--	1	1	--	--	927.90	921.50	5.32
0010	3.2	1174'SB'+90	4.0' RT	--	--	1	1	--	--	928.22	921.60	5.54
0010	4.1	1261'SB'+03	32.4' LT	--	--	1	1	--	--	928.54	921.68	5.78
0010	4.3	1262'SB'+49	32.4' LT	--	--	1	1	--	--	927.32	920.90	5.34
0010		118'EB'+65	LT	--	--	--	--	1	--	--	--	--
0010		121'EB'+66	LT	--	--	--	--	1	--	--	--	--
0010		123'EB'+15	LT	--	--	--	--	1	1	--	--	--
0010		218'WB'+66	RT	--	--	--	--	1	--	--	--	--
0010		221'WB'+67	RT	--	--	--	--	1	--	--	--	--
0010		223'WB'+16	RT	--	--	--	--	1	1	--	--	--
			TOTAL 0010	0	0	8	8	6	2			
0020		77'TTT'+50	REST AREA 81	1	--	--	--	--	--	--	--	--
0020		79'C'+13	REST AREA 81	--	1	--	--	--	--	--	--	--
0020		85'C'+19	REST AREA 81	1	--	--	--	--	--	--	--	--
			TOTAL 0020	2	1	0	0	0	0			
			PROJECT TOTALS	2	1	8	8	6	2			

REMARKS:
*STATIONS AND OFFSETS ARE TO CENTER OF STRUCTURE
**RIM ELEV IS AT THE INLET COVER FLANGE LOCATION
***FOR STRUCTURES WITH SUMPS, THE INVERT ELEVATION IS THE ELEVATION OF THE SUMP. FOR STRUCTURES WITHOUT SUMPS, THE INVERT ELEVATION IS THE ELEVATION OF THE LOWEST PIPE FLOW LINE
****DEPTH = RIM ELEV - TOP OF STRUCTURE BASE ELEV - COVER HEIGHT - 6-INCH ADJUSTMENT RING HEIGHT

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EROSION CONTROL DEVICES

CATEGORY	STATION	TO	STATION	LOCATION	628.1504 SILT FENCE LF	628.1520 SILT FENCE MAINTENANCE LF	628.1905 MOBILIZATIONS EROSION CONTROL EACH	628.1910 MOBILIZATIONS EMERGENCY EROSION CONTROL EACH	628.7005 INLET PROTECTION TYPE A EACH	628.7010 INLET PROTECTION TYPE B EACH	628.7015 INLET PROTECTION TYPE C EACH	628.7504 TEMPORARY DITCH CHECKS LF	628.7555 CULVERT PIPE CHECKS EACH	628.7570 ROCK BAGS EACH	REMARKS
0010				PROJECT	--	--	8	4	--	--	--	--	--	--	
0010	747'SB'+16	-	752'SB'09	RT	690	690	--	--	--	--	1	--	--	15	
0010	747'SB'+16	-	763'SB'+35	LT	1,810	1,810	--	--	--	--	1	--	--	15	
0010	870'SB'+71	-	870'SB'+79	RT	100	100	--	--	--	--	--	--	--	15	
0010	871'SB'+60	-	872'SB'+70	RT	370	370	--	--	1	--	--	--	--	45	
0010	945'SB'+95	-	946'SB'+19	RT	100	100	--	--	--	--	--	--	--	15	
0010	981'SB'+18	-	982'SB'+07	LT	220	220	--	--	--	--	--	--	--	15	
0010	998'SB'+29	-	1002'SB'+93	LT	700	700	--	--	--	--	1	--	--	--	
0010	998'SB'+22	-	1002'SB'+93	RT	650	650	--	--	--	--	1	--	--	15	
0010	1014'SB'+54	-	1032'SB'+44	LT	--	1,930	--	--	--	--	--	--	--	--	SILT FENCE INSTALLED BY OTHERS
0010	1071'SB'+63	-	1087'SB'+10	RT	--	1,770	--	--	--	--	--	--	--	--	SILT FENCE INSTALLED BY OTHERS
0010	1072'SB'+61	-	1086'SB'+72	LT	--	1,510	--	--	--	--	--	--	--	--	SILT FENCE INSTALLED BY OTHERS
0010	1109'SB'+54	-	1116'SB'+45	LT	--	800	--	--	--	--	--	--	--	--	SILT FENCE INSTALLED BY OTHERS
0010	1175'SB'+83	-	1183'SB'+92	RT	1,000	1,000	--	--	--	--	1	--	--	15	
0010	1176'SB'+03	-	1177'SB'+29	LT	220	220	--	--	--	--	1	--	--	15	
0010	1257'SB'+89	-	1261'SB'+13	LT	--	440	--	--	--	--	--	--	--	--	SILT FENCE INSTALLED BY OTHERS
0010	1262'SB'+38	-	1266'SB'+77	LT	--	550	--	--	--	--	1	--	--	--	SILT FENCE INSTALLED BY OTHERS
0010	1262'SB'+49	-	1267'SB'+86	LT	--	610	--	--	--	--	1	--	--	--	SILT FENCE INSTALLED BY OTHERS
0010	429'LC'+00	-	430'LC'+85	LT & RT	750	750	--	--	--	--	--	--	4	--	
0010	431'LD'+07	-	433'LD'+23	LT & RT	680	680	--	--	--	--	--	--	4	--	
0010	119'EB'+50	-	122'EB'+75	RT	300	300	--	--	2	--	7	--	--	--	
0010	217'WB'+60	-	222'WB'+49	LT	250	250	--	--	2	--	7	--	--	--	
0010				UNDISTRIBUTED	1,580	1,580	--	--	3	3	3	200	34	100	
				TOTAL 0010	9,420	17,030	8	4	8	3	25	200	42	265	
0020				PROJECT	--	--	3	2	--	--	--	--	--	--	
0020	90'C'+25	-	91'C'+50	LT & RT	230	230	--	--	--	--	--	--	4	15	
0020	73'C'+25	-	87'C'+50	REST AREA 81	990	990	--	--	--	--	10	100	4	45	
0020	2'F'+00	-	6'F'+80	REST AREA 82	660	660	--	--	--	--	--	--	--	45	
				TOTAL 0020	1,880	1,880	3	2	0	0	10	100	8	105	
				PROJECT TOTALS	11,300	18,910	11	6	8	3	35	300	50	370	

3

RESTORATION

CATEGORY	STATION	TO	STATION	LOCATION	625.0100 TOPSOIL SY	628.2008 EROSION MAT URBAN CLASS I TYPE B SY	628.2027 EROSION MAT CLASS II TYPE C SY	629.0210 FERTILIZER TYPE B CWT	630.0130 SEEDING MIXTURE NO. 30 LB	630.0140 SEEDING MIXTURE NO. 40 LB	630.0200 SEEDING TEMPORARY LB	630.0500 SEED WATER MGAL	SPV.0030.01 SPECIAL (01. FERTILIZER FOR LAWN TYPE TURF) CWT	SPV.0180.02 SPECIAL (02. PREPARING TOPSOIL FOR SOIL LAWN TYPE TURF) SY
0010	747'SB'+16	-	752'SB'09	RT	391	391	--	0.25	18	--	11	2	--	--
0010	747'SB'+16	-	749'SB'+50	LT	260	--	260	0.16	12	--	7	2	--	--
0010	750'SB'+75	-	763'SB'+35	LT	971	971	--	0.61	44	--	27	6	--	--
0010	870'SB'+71	-	870'SB'+79	RT	1,961	1,961	--	1.24	89	--	53	12	--	--
0010	871'SB'+60	-	872'SB'+70	LT & RT	538	538	--	0.34	25	--	15	3	--	--
0010	945'SB'+95	-	946'SB'+19	RT	2,382	2,382	--	1.50	108	--	65	15	--	--
0010	981'SB'+18	-	982'SB'+07	LT	369	369	--	0.23	17	--	10	2	--	--
0010	998'SB'+29	-	1002'SB'+93	LT	598	598	--	0.38	27	--	17	4	--	--
0010	998'SB'+22	-	1002'SB'+93	RT	242	242	--	0.15	11	--	7	2	--	--
0010	1014'SB'+54	-	1032'SB'+44	LT	1,050	1,050	--	0.66	48	--	29	7	--	--
0010	1071'SB'+63	-	1087'SB'+10	RT	1,454	1,454	--	0.92	66	--	40	9	--	--
0010	1072'SB'+61	-	1086'SB'+72	LT	914	914	--	0.58	42	--	25	6	--	--
0010	1109'SB'+54	-	1116'SB'+45	LT	596	596	--	0.38	27	--	17	4	--	--
0010	1175'SB'+83	-	1183'SB'+92	RT	1,334	1,334	--	0.84	60	--	36	8	--	--
0010	1176'SB'+03	-	1177'SB'+29	LT	363	363	--	0.23	17	--	10	2	--	--
0010	1257'SB'+89	-	1261'SB'+13	LT	315	315	--	0.20	15	--	9	2	--	--
0010	1262'SB'+38	-	1266'SB'+77	LT	463	463	--	0.29	21	--	13	3	--	--
0010	1262'SB'+49	-	1267'SB'+86	RT	107	107	--	0.07	5	--	3	1	--	--
0010	119'EB'+50	-	122'EB'+75	RT	281	281	--	0.18	13	--	8	2	--	--
0010	217'WB'+60	-	222'WB'+49	LT	641	641	--	0.40	29	--	18	4	--	--
0010	429'LC'+00	-	430'LC'+85	LT & RT	807	807	--	0.51	37	--	22	5	--	--
0010	431'LD'+07	-	433'LD'+23	LT & RT	679	679	--	0.43	31	--	19	4	--	--
0010				UNDISTRIBUTED	2,402	1,962	440	0.85	38	10	34	10	--	--
				TOTAL 0010	19,118	18,418	700	11.40	800	10	495	115	0	0
0020			91'C'+22	LT & RT	109	109	--	--	--	5	3	1	1	109
0020	73'C'+25	-	87'C'+50	REST AREA 81	2,857	2,857	--	--	--	129	78	4	2	2,857
0020	1'F'+53	-	1'F'+96	RT	159	159	--	--	--	8	5	1	1	159
0020	3'F'29	-	6'F'+80	REST AREA 82	657	657	--	--	--	30	18	4	1	657
				UNDISTRIBUTED	300	300	--	--	--	18	11	5	--	300
				TOTAL 0020	4,082	4,082	0	0.00	0	190	115	15	5	4,082
				PROJECT TOTALS	23,200	22,500	700	11.40	800	200	610	130	5	4,082

3

DELINEATORS AND MARKERS

CATEGORY	STATION	TO	STATION	LOCATION	204.0180 REMOVING DELINEATORS AND MARKERS EACH	633.0100 DELINEATOR POSTS STEEL EACH	633.0500 DELINEATOR REFLECTORS EACH	633.5200 MARKERS CULVERT END EACH
0010			747'SB'+07	RT	--	--	--	1
0010			747'SB'+23	LT	--	--	--	1
0010			871'SB'+85	LT	--	--	--	1
0010			872'SB'+34	RT	--	--	--	1
0010	760'SB'+60	-	973'SB'+37	LT	53	--	--	--
0010	762'SB'+08	-	973'SB'+37	LT & RT	--	53	53	--
0010	973'SB'+37	-	430'LC'+77	ON RAMP CTH E/J	25	25	38	--
0010	984'SB'+73	-	996'SB'+55	LT	6	6	6	--
0010			981'SB'+60	LT	--			1
0010			430'LC'+27	LT & RT	1	--	--	2
0010			431'LD'+69	LT & RT	1	--	--	2
0010			998'SB'+22	RT	--	--	--	1
0010			998'SB'+44	LT	--	--	--	1
0010			998'SB'+71	LT	--	--	--	1
0010	1000'SB'+86	-	1006'SB'+94	LT	3	--	--	--
0010	1001'SB'+81	-	1006'SB'+94	LT	--	3	3	--
0010	431'LD'+33	-	1011'SB'+02	OFF RAMP CTH E/J	13	13	19	--
0010	1011'SB'+02	-	1014'SB'+53	LT	1	1	1	--
0010	1031'SB'+32	-	1072'SB'+62	LT	11	11	11	--
0010	1085'SB'+02	-	1109'SB'+55	LT	7	7	7	--
0010	1115'SB'+33	-	1173'SB'+42	LT	15	15	15	--
0010			1175'SB'+02	RT	1	--	--	1
0010			1175'SB'+05	LT	1	--	--	1
0010	1177'SB'+34	-	1258'SB'+63	LT	21	--	--	--
0010	1176'SB'+03	-	1257'SB'+95	LT	--	21	21	--
0010			1261'SB'+03	LT	--	--	--	1
0010			1262'SB'+49	LT	1	--	--	1
0010	1264'SB'+90	-	1322'SB'+73	LT	15	--	--	--
0010	1265'SB'+73	-	1322'SB'+73	LT	--	15	15	--
0010	1322'SB'+73	-	69'C'+00	ON RAMP REST AREA 81	14	--	--	--
0010	1322'SB'+73	-	75'C'+75	ON RAMP REST AREA 81	--	20	35	--
0010	1336'SB'+46	-	1352'SB'+28	LT	8	8	8	--
0010	82'C'+00	-	189'C'+50	OFF RAMP REST AREA 81	26	--	--	--
0010	82'C'+00	-	189'C'+50	OFF RAMP REST AREA 81	--	26	33	--
				TOTAL 0010	223	224	265	16
0020			91'C'+20		1	--	--	2
				TOTAL 0020	1	0	0	2
				PROJECT TOTALS	224	224	265	18

3

SIGNING

CATEGORY	LOCATION	634.0612 POSTS WOOD 4X6-INCH X 12-FT EACH	634.0614 POSTS WOOD 4X6-INCH X 14-FT EACH	634.0616 POSTS WOOD 4X6-INCH X 16-FT EACH	636.0618 POSTS WOOD 4X6-INCH X 18-FT EACH	638.0620 POSTS WOOD 4X6-INCH X 20-FT EACH	638.2102 MOVING SIGNS TYPE II EACH	638.3000 REMOVING SMALL SIGN SUPPORTS EACH	REMARKS
0010	CTH E/J	--	2	--	1	--	6	3	STAGE 1
0010	CTH E/J	2	--	4	2	1	22	10	STAGE 2A
0010	CTH E/J	--	1	2	2	--	14	5	STAGE 3A
0010	UNDISTRIBUTED	--	--	2	--	--	5	2	
	TOTAL 0010	2	3	8	5	1	47	20	

TEMPORARY MARKING

CATEGORY	LOCATION	643.3165 TEMPORARY MARKING LINE PAINT 6-INCH LF	643.3180 TEMPORARY MARKING LINE REMOVABLE TAPE 6-INCH LF	643.3280 TEMPORARY MARKING LINE REMOVABLE TAPE 10-INCH LF	643.3850 TEMPORARY MARKING STOP LINE REMOVABLE TAPE 18-INCH LF	643.3980 TEMPORARY MARKING REMOVABLE MASK OUT TAPE 8-INCH LF	643.3990 TEMPORARY MARKING REMOVABLE MASK OUT TAPE 12-INCH LF	646.9000 MARKING REMOVAL LINE 4-INCH LF	646.9002 MARKING REMOVAL LINE 6-INCH LF	REMARKS
0010	IH 39	122,390	5,040	200	--	630	--	56,455	11,155	STAGE 1 - PREP WORK (3 SETUPS)
0010	IH 39	122,390	4,030	--	--	10,799	--	--	--	STAGE 1A
0010	IH 39	--	4,005	--	--	160	--	2,245	--	STAGE 1A - B-39-0010
0010	IH 39	--	4,065	--	--	198	--	2,420	--	STAGE 1A - B-39-0033
0010	IH 39	--	4,710	--	--	163	--	2,265	--	STAGE 1A - B-39-0040
0010	IH 39	--	3,645	--	--	160	--	2,065	--	STAGE 1B - B-39-0010
0010	IH 39	--	3,710	--	--	198	--	2,105	--	STAGE 1B - B-39-0033
0010	IH 39	--	4,370	--	--	163	--	2,105	--	STAGE 1B - B-39-0040
0010	IH 39	--	9,915	400	--	10,453	--	--	10,615	STAGE 1B
0010	IH 39	--	--	200	--	3,010	--	--	3,010	STAGE 1C
0010	CTH E/J	2,010	6,667	--	62	--	252	461	--	STAGE 2A
0010	CTH E/J	--	112	--	--	--	--	--	--	STAGE 2B
0010	CTH E/J	--	8,202	--	114	--	504	429	--	STAGE 3A
0010	CTH E/J	--	253	--	--	--	--	--	--	STAGE 3B
0010	REST AREA 81	--	180	--	--	--	--	--	--	IH 39 SB OFF RAMP CLOSURE
0010	UNDISTRIBUTED	12,310	8,496	200	24	426	344	3,150	1,220	
	TOTAL 0010	259,100	67,400	1,000	200	26,360	1,100	73,700	26,000	

3

DSRS & QUEUE WARNING SYSTEM

CATEGORY	LOCATION	STAGE	DURATION DAY	DIGITAL SPEED LIMIT TRAILERS (DSLT)	643.0370.S DIGITAL SPEED REDUCTION SYSTEM (DSRS) DAY	#	643.0810 CONNECTED ARROW BOARD DAY	#	643.1220 CONNECTED WORK ZONE START AND END LOCATION MARKERS DAY	SPV.0060.07 DIGITAL SPEED LIMIT TRAILER PAD EA	REMARKS
0010	IH 39 SB	1	10	3	30	3	30	3	30	--	PREP WORK
0010	IH 39 SB	1A	8	4	32	4	32	4	32	--	APPROACH WORK
0010	IH 39 SB	1B	18	4	72	4	72	4	72	--	APPROACH WORK
0010	IH 39 SB	1A	8	15	120	1	8	1	8	15	MILLING AND PAVING
0010	IH 39 SB	1B	31	15	465	1	31	1	31	--	MILLING AND PAVING
0010	IH 39 SB	1C	11	15	165	1	11	1	11	--	MILLING AND PAVING
0010	IH 39 NB	1C	10	10	100	1	10	1	10	10	MILLING AND PAVING
0010	UNDISTRIBUTED				366		46		96	5	
	TOTAL 0010				1,350		240		290	30	

NOTE: ONLY ONE SET OF CONNECTED WORK ZONE START AND END MARKERS IS REQUIRED FOR A SERIES OF CLOSURES

BASIC TRAFFIC QUEUE WARNING SYSTEM

CATEGORY	LOCATION	STAGES	FLASHING BEACON SIGNS (FBS)	PORTABLE TRAFFIC SENSORS (PTS)	643.1205.S BASIC TRAFFIC QUEUE WARNING SYSTEM DAY	REMARKS
0010	IH 39 SB	1	9	9	30	PREP WORK
0010	IH 39 SB	1A	9	9	24	APPROACH WORK
0010	IH 39 SB	1B	9	9	54	APPROACH WORK
0010	IH 39 SB	1A	9	9	24	MILLING AND PAVING
0010	IH 39 SB	1B	9	9	93	MILLING AND PAVING
0010	IH 39 SB	1C	9	9	33	MILLING AND PAVING
0010	IH 39 NB	1C	9	9	30	MILLING AND PAVING
0010	UNDISTRIBUTED				62	
	TOTAL 0010				350	

NOTE: THESE ITEMS ARE PART OF THE BQWS AND ARE PAID FOR ONE COMPLETE SYSTEM PER ROADWAY

COVERING SIGNS

CATEGORY	LOCATION	COVERING SIGNS CYCLES	643.0910 TRAFFIC CONTROL COVERING SIGNS TYPE I EACH	COVERING SIGNS CYCLES	643.0920 TRAFFIC CONTROL COVERING SIGNS TYPE II EACH	REMARKS
0010	CTH E/J	1	1	1	1	IH 39 NB OFF RAMP CLOSURE
0010	CTH E/J	1	1	1	1	IH 39 SB OFF RAMP CLOSURE
0010	CTH E/J	1	1	1	1	IH 39 SB OFF RAMP CLOSURE - PAVING
0010	CTH E/J	1	1	1	1	IH 39 SB ON RAMP CLOSURE - PAVING
0010	CTH E/J	1	1	1	1	IH 39 SB OFF RAMP CLOSURE - PAVEMENT MARKING
0010	CTH E/J	1	1	1	1	IH 39 SB ON RAMP CLOSURE - PAVEMENT MARKING
0010	CTH E/J	1	1	1	9	STAGE 2A
0010	CTH E/J	--	--	1	13	STAGE 2B
0010	CTH E/J	--	--	1	5	STAGE 3A
0010	CTH E/J	--	--	1	6	STAGE 3B
0010	REST AREA 81	1	1	1	4	IH 39 SB OFF RAMP CLOSURE - PCMS 7 DAYS PRIOR TO CLOSURE
0010	IH 39 MAINLINE	--	--	2	8	SPEED LIMIT SIGNS
0010	UNDISTRIBUTED	--	5	--	4	
	TOTAL 0010		13		55	

TRAFFIC CONTROL

CATEGORY	LOCATION	DURATION DAY	DRUMS EA	643.0300 TRAFFIC CONTROL DRUMS DAY	BARRICADES TYPE III EA	643.0420 TRAFFIC CONTROL BARRICADES TYPE III DAY	WARNING LIGHTS TYPE A EA	643.0705 TRAFFIC CONTROL WARNING LIGHTS TYPE A DAY	WARNING LIGHTS TYPE C EA	643.0715 TRAFFIC CONTROL WARNING LIGHTS TYPE C DAY	SIGNS EA	643.0900 TRAFFIC CONTROL SIGNS DAY	643.1000 TRAFFIC CONTROL SIGNS FIXED MESSAGE SF	PCMS EA	643.1050 TRAFFIC CONTROL SIGNS PCMS DAY	REMARKS
0010	IH 39	96	--	--	--	--	--	--	--	--	2	192	--	--	--	SB ADVANCE WARNING, W20-1A
0010	IH 39	10	851	8,510	37	370	74	740	56	560	55	550	--	--	--	STAGE 1 PREP WORK
0010	IH 39	20	--	--	--	--	--	--	--	--	27	540	38	--	--	WIDTH RESTRICTION - STAGE 1B
0010	IH 39	20	--	--	--	--	--	--	--	--	2	40	--	--	--	SB ADVANCE WARNING, W12-52, STAGE 1B
0010	IH 39	10	83	830	2	20	4	40	28	280	16	160	--	1	20	STAGE 1A - B-39-0010
0010	IH 39	10	83	830	2	20	4	40	27	270	16	160	--	1	20	STAGE 1A - B-39-0033
0010	IH 39	10	88	880	2	20	4	40	27	270	16	160	--	1	20	STAGE 1A - B-39-0040
0010	IH 39	26	707	18,382	29	754	58	1,508	16	416	39	1,014	--	2	10	STAGE 1A PAVING
0010	IH 39	10	80	800	2	20	4	40	25	250	16	160	--	1	20	STAGE 1B - B-39-0010
0010	IH 39	10	80	800	2	20	4	40	25	250	16	160	--	1	20	STAGE 1B - B-39-0033
0010	IH 39	10	80	800	2	20	4	40	25	250	16	160	--	1	20	STAGE 1B - B-39-0040
0010	IH 39	39	851	33,189	37	1,443	74	2,886	56	2,184	55	2,145	--	2	15	STAGE 1B PAVING
0010	IH 39	21	707	14,847	29	609	58	1,218	16	336	39	819	--	2	20	STAGE 1C PAVING
0010	IH 39 NB	5	707	3,535	29	145	58	290	16	80	39	195	--	--	--	STAGE 1C MAINTENANCE CROSSOVERS
0010	IH 39 NB	5	15	75	--	--	--	--	--	--	4	20	--	--	--	PIPE LINER SHOULDER CLOSURE
0010	CTH E/J	7	5	35	--	--	--	--	--	--	--	--	--	1	7	IH 39 NB OFF RAMP CLOSURE - 7 DAYS PRIOR TO CLOSURE
0010	CTH E/J	5	36	180	4	20	8	40	--	--	12	60	--	--	--	IH 39 NB OFF RAMP CLOSURE
0010	CTH E/J	7	5	35	--	--	--	--	--	--	--	--	--	1	7	IH 39 SB OFF RAMP CLOSURE - 7 DAY PRIOR TO CLOSURE
0010	CTH E/J	5	36	180	4	20	8	40	--	--	12	60	--	--	--	IH 39 SB OFF RAMP CLOSURE
0010	CTH E/J	7	5	35	--	--	--	--	--	--	--	--	--	1	7	IH 39 SB OFF RAMP CLOSURE - 7 DAY PRIOR TO CLOSURE
0010	CTH E/J	1	36	36	4	4	8	8	--	--	12	12	--	--	--	IH 39 SB OFF RAMP CLOSURE - PAVING
0010	CTH E/J	7	5	35	--	--	--	--	--	--	--	--	--	1	7	IH 39 SB OFF RAMP CLOSURE - 7 DAY PRIOR TO CLOSURE
0010	CTH E/J	1	36	36	4	4	8	8	--	--	12	12	--	--	--	IH 39 SB ON RAMP CLOSURE - PAVING
0010	CTH E/J	7	5	35	--	--	--	--	--	--	--	--	--	1	7	IH 39 SB OFF RAMP CLOSURE - 7 DAY PRIOR TO CLOSURE
0010	CTH E/J	1	36	36	4	4	8	8	--	--	12	12	--	--	--	IH 39 SB OFF RAMP CLOSURE - PAVEMENT MARKING
0010	CTH E/J	7	5	35	--	--	--	--	--	--	--	--	--	1	7	IH 39 SB OFF RAMP CLOSURE - 7 DAY PRIOR TO CLOSURE
0010	CTH E/J	1	36	36	4	4	8	8	--	--	12	12	--	--	--	IH 39 SB ON RAMP CLOSURE - PAVEMENT MARKING
0010	CTH E/J	10	110	1,100	3	30	6	60	--	--	45	450	--	--	--	STAGE 1
0010	CTH E/J	30	160	4,800	21	630	42	1,260	8	240	109	3,270	--	--	--	STAGE 2A
0010	CTH E/J	5	120	600	22	110	44	220	8	40	97	485	--	--	--	STAGE 2B
0010	CTH E/J	30	170	5,100	17	510	34	1,020	28	840	113	3,390	--	--	--	STAGE 3A
0010	CTH E/J	5	130	650	25	125	50	250	28	140	92	460	--	--	--	STAGE 3B
0010	CTH E/J	15	100	1,500	--	--	--	--	--	--	42	630	--	--	--	STAGE 4
0010	CTH E/J	5	15	75	2	10	4	20	--	--	92	460	--	3	36	IH 39 STAGE 2 RAMP CLOSURE - INTERCHANGE DETAILS
0010	CTH E/J	5	15	75	2	10	4	20	--	--	92	460	--	3	36	IH 39 STAGE 3 RAMP CLOSURE - INTERCHANGE DETAILS
0010	REST AREA 81	40	36	1,440	4	160	8	320	--	--	10	400	--	1	7	IH 39 SB OFF RAMP CLOSURE - PCMS 7 DAYS PRIOR TO CLOSURE
0010	REST AREA 82	25	25	625	2	50	4	100	--	--	4	100	--	--	--	
0010	86'C'+25 LT	40	--	--	1	40	2	80	--	--	1	40	--	--	--	ICE AGE TRAIL SPUR WHEN REST AREA 81 IS CLOSED
0010	UNDISTRIBUTED		--	9,843	--	628	--	1,156	--	1,394	--	1,712	--	--	44	
	TOTAL 0010			110,000		5,800		11,500		7,800		18,500	38		330	

3

TUBULAR MARKER

CATEGORY	LOCATION	643.0500 TRAFFIC CONTROL FLEXIBLE TUBULAR MARKER POSTS EACH	643.0600 TRAFFIC CONTROL FLEXIBLE TUBULAR MARKER BASES EACH	REMARKS
0010	CTH E/J	50	50	STAGE 2
0010	CTH E/J	50	50	STAGE 3
0010	UNDISTRIBUTED	5	5	
	TOTAL 0010	105	105	

PAVEMENT MARKING MAINLINE

CATEGORY	STATION	TO	STATION	LOCATION	646.2020 MARKING LINE EPOXY 6-INCH LF	646.2025 MARKING LINE GROOVED BLACK EPOXY 6-INCH LF	646.2040 MARKING LINE GROOVED WET REF EPOXY 6-INCH LF	646.4040 MARKING LINE GROOVED WET REF EPOXY 10-INCH LF	646.7220 MARKING CHEVRON EPOXY 24-INCH LF	646.6466 COLD WEATHER MARKING EPOXY 6-INCH LF	646.6470 COLD WEATHER MARKING EPOXY 10-INCH LF	REMARKS
0010	745'SB'+91	-	1359'SB'+16	IH 39	--	15,400	15,340	--	--	30,740	--	
0010	745'SB'+91	-	1359'SB'+16	IH 39	--	--	61,800	--	--	61,800	--	WHITE
0010	745'SB'+91	-	1359'SB'+16	IH 39	--	--	61,400	--	--	61,400	--	YELLOW
0010	978'SB'+37	-	985'SB'+26	IH 39	--	--	--	1,378	--	--	1,378	
0010	1006'SB+39	-	1009'SB'+85	IH 39	--	--	--	692	218	--	692	
0010	1328'SB'+62	-	1337'SB'+67	IH 39	--	--	--	1,810	--	--	1,810	
0010	1351'SB'+77	-	1355'SB'+07	IH 39	--	--	--	660	202	--	660	
0010	116'EB'+66	-	123'EB'+72	CTH E/J	52	--	--	102	--	--	--	
0010	116'EB'+66	-	123'EB'+72	CTH E/J	--	--	530	--	--	--	--	WHITE
0010	116'EB'+66	-	123'EB'+72	CTH E/J	--	--	450	--	--	--	--	YELLOW
0010	216'WB'55	-	224'WB'+50	CTH E/J	29	--	--	230	--	--	--	
0010	216'WB'+55	-	224'WB'+50	CTH E/J	--	--	520	--	--	--	--	WHITE
0010	216'WB'+55	-	224'WB'+50	CTH E/J	--	--	450	--	--	--	--	YELLOW
0010	418'LC'+41	-	430'LC'+70	CTH E/J	--	--	1,190	--	--	--	--	WHITE
0010	418'LC'+41	-	430'LC'+70	CTH E/J	--	--	1,180	--	--	--	--	YELLOW
0010	431'LD'+27	-	439'LD'+95	CTH E/J	--	--	850	--	--	--	--	YELLOW
0010	431'LD'+27	-	439'LD+95	CTH E/J	--	--	830	153	--	--	--	
0010				UNDISTRIBUTED	--	--	2,800	--	--	2,800	--	YELLOW
0010				UNDISTRIBUTED	--	500	3,000	--	--	3,500	--	WHITE
				TOTAL 0010	81	15,900	150,340	5,025	420	160,240	4,540	
0020	71'C'+00	-	184'C'+05	REST AREA 81	--	--	2,800	290	--	--	--	WHITE
0020	71'C'+00	-	184'C'+05	REST AREA 81	--	--	2,000	--	--	--	--	YELLOW
				TOTAL 0020	0	0	4,800	290	0	0	0	
				PROJECT TOTALS	81	15,900	155,140	5,315	420	160,240	4,540	

3

PAVEMENT MARKING 'CONTINUED'

CATEGORY	STATION	TO	STATION	LOCATION	646.1020 MARKING LINE EPOXY 4-INCH (YELLOW) LF	646.5020 MARKING ARROW EPOXY EACH	646.5220 MARKING SYMBOL EPOXY EACH	646.5420 MARKING AERIAL ENFORCEMENT BAR EPOXY EACH	646.6120 MARKING STOP LINE EPOXY 18-INCH LF	646.7520 MARKING CROSSWALK EPOXY BLOCK STYLE 24-INCH LF	646.8120 MARKING CURB EPOXY LF	646.8220 MARKING ISLAND NOSE EPOXY EACH	646.8320 MARKING PARKING STALL EPOXY (WHITE) LF	646.9200 MARKING REMOVAL LINE WIDE EACH	646.9300 MARKING REMOVAL SPECIAL MARKING EACH	REMARKS
0010	1038'SB'+00	-	1044'SB'+60	IH 39	--	--	--	4	--	--	--	--	--	--	--	
0010	116'EB'+66	-	123'EB'+72	CTH E/J	--	1	--	--	--	--	127	--	--	--	--	
0010	117'EB'+16	-	117'EB'+23	CTH E/J	--	--	--	--	--	--	--	1	--	--	--	TYPE 1 MEDIAN NOSE
0010	117'EB'+81	-	117'EB'+88	CTH E/J	--	--	--	--	--	--	--	1	--	--	--	TYPE 1 MEDIAN NOSE
0010	122'EB'+29	-	122'EB'+36	CTH E/J	--	--	--	--	--	--	--	1	--	--	--	TYPE 1 MEDIAN NOSE
0010	123'EB'+08	-	123'EB'+15	CTH E/J	--	--	--	--	--	--	--	1	--	--	--	TYPE 1 MEDIAN NOSE
0010	216'WB'55	-	223'WB'+50	CTH E/J	--	3	--	--	--	--	107	--	--	--	--	
0010	431'LD'+27	-	439'LD'+95	CTH E/J	--	--	--	--	45	--	84	--	--	--	--	
0010	431'LD'+62	-	431'LD'+72	OFF RAMP CTH E/J	--	--	--	--	--	--	--	1	--	--	--	
0010	123'EB'+08	-	123'EB'+13	RT	--	--	--	--	--	--	--	1	--	--	--	
				TOTAL 0010	0	4	0	4	45	0	318	6	0	0	0	
0020	71'C'+00	-	184'C'+05	REST AREA 81	550	--	4	--	--	18	--	--	2,740	450	8	
				TOTAL 0020	550	0	4	0	0	18	0	0	2,740	450	8	
				PROJECT TOTALS	550	4	4	4	45	18	318	6	2,740	450	8	

REST AREA 81 LIGHTING REMOVALS

CATEGORY	LOCATION	* 204.0195 REMOVING CONCRETE BASES EACH	SPV.0060.01 SPECIAL (01. REMOVE AND SALVAGE LIGHT POLE ASSEMBLIES REST AREA 81) EACH
0020	REST AREA 81	22	22
0020	STA 78'C'+80, 43.8' LT	1	--
	TOTAL 0020	23	22

* ADDITIONAL QUANTITIES ELSEWHERE

RAMP GATE

CATEGORY	STATION	LOCATION	* 204.0155 REMOVING CONCRETE SIDEWALK SY	* 204.0195 REMOVING CONCRETE BASES EACH	* 654.0105 CONCRETE BASES TYPE 5 EACH	SPV.0060.06 SPECIAL (06. SALVAGE AND REINSTALL RAMP GATE) EACH
0010	430'LC'+21	34' RT	--	1	1	1
0010	430'LC'+36.6	21.7' RT	--	1	--	--
0010	430'LC'+38.8	21.4' RT	1	--	--	--
		TOTAL 0010	1	2	1	1

* ADDITIONAL QUANTITIES ELSEWHERE

3

CONSTRUCTION STAKING

CATEGORY	STATION	TO	STATION	LOCATION	650.4000 CONSTRUCTION STAKING STORM SEWER EACH	650.4500 CONSTRUCTION STAKING SUBGRADE LF	650.5000 CONSTRUCTION STAKING BASE LF	650.6000 CONSTRUCTION STAKING PIPE CULVERTS EACH	650.7000 CONSTRUCTION STAKING CONCRETE PAVEMENT LF	650.8000 CONSTRUCTION STAKING RESURFACING REFERENCE LF	650.8501.01 CONSTRUCTION STAKING ELECTRICAL INSTALLATIONS (PROJECT) (01. 1166-04-85) EACH	650.9000 CONSTRUCTION STAKING CURB RAMPS EACH	650.9500.01 CONSTRUCTION STAKING SIDEWALK (PROJECT) (01. 1166-04-85) EACH	650.9911.01 CONSTRUCTION STAKING SUPPLEMENTAL CONTROL (PROJECT) (01. 1166-04-85) EACH	650.9920 CONSTRUCTION STAKING SLOPE STAKES LF
0010	747'SB'+08	-	1359'SB'+03	LT & RT	18	--	--	--	--	61,195	--	--	--	1	--
0010	747'SB'+09	-	747'SB'+15	LT & RT	--	6	--	--	6	--	--	--	--	--	--
0010	747'SB'+16	-	763'SB'+28	LT & RT	--	--	--	--	--	--	--	--	--	--	1,612
0010	867'SB'+00	-	872'SB'+00	LT & RT	--	--	--	--	--	--	--	--	--	--	500
0010	945'SB'+50	-	951'SB'+50	LT & RT	--	--	--	--	--	--	--	--	--	--	600
0010	988'SB'+50	-	1002'SB'+93	LT & RT	--	--	--	--	--	--	--	--	--	--	1,443
0010	998'SB'+28	-	998'SB'+63	LT & RT	--	35	--	--	35	--	--	--	--	--	--
0010	1014'SB'+55	-	1032'SB'+44	LT & RT	--	--	--	--	--	--	--	--	--	--	1,789
0010	1071'SB'+66	-	1087'SB'+09	LT & RT	--	--	--	--	--	--	--	--	--	--	1,543
0010	1109'SB'+55	-	1116'SB'+45	LT & RT	--	--	--	--	--	--	--	--	--	--	690
0010	1173'SB'+42	-	1173'SB'+61	LT & RT	--	19	--	--	19	--	--	--	--	--	--
0010	1174'SB'+76	-	1174'SB'+93	LT & RT	--	17	--	--	17	--	--	--	--	--	--
0010	1174'SB'+82	-	1183'SB'+88	LT & RT	--	--	--	--	--	--	--	--	--	--	906
0010	1257'SB'+95	-	1261'SB'+12	LT & RT	--	--	--	--	--	--	--	--	--	--	317
0010	1261'SB'+05	-	1261'SB'+25	LT & RT	--	20	--	--	20	--	--	--	--	--	--
0010	1262'SB'+36	-	1262'SB'+56	LT & RT	--	20	--	--	20	--	--	--	--	--	--
0010	1262'SB'+41	-	1267'SB'+74	LT & RT	--	--	--	--	--	--	--	--	--	--	533
0010	116'EB'+67	-	123'EB'+71	LT & RT	--	704	704	--	--	--	--	--	--	--	704
0010	216'WB'+55	-	223'WB'+49	LT & RT	--	694	694	--	--	--	--	--	--	--	694
0010	418'LC'+00	-	429'LC'+00	LT & RT	--	--	--	--	--	1,100	--	--	--	--	--
0010	429'LC'+00	-	430'LC'+71	LT & RT	--	171	171	1	--	--	--	--	--	--	171
0010	431'LD'+26	-	433'LD'+23	LT & RT	--	197	197	1	--	--	--	--	--	--	197
0010	433'LD'23	-	439'LD'+95	LT & RT	--	--	--	--	--	672	--	--	--	--	--
				TOTAL 0010	18	1,883	1,766	2	117	62,967	0	0	0	1	11,699
0020	71'C'+00	-	184'C'+00		--	--	--	--	--	11,300	--	--	--	--	--
0020	78'C'+68	-	82'C'+15		--	--	--	--	--	--	--	--	--	--	--
0020	91'C'+07	-	91'C'+37		--	30	--	1	30	--	--	--	--	--	--
0020	80'CT'+00	-	84'CT+00		--	--	--	--	--	400	--	--	--	--	--
0020	85'CT'+37	-	85'CT'+63		--	26	--	--	26	--	--	--	--	--	--
0020	72'TTT+20	-	77'TTT+00		--	--	--	--	--	480	--	--	--	--	--
0020				REST AREA 81	--	--	--	--	--	--	1	4	1	--	--
0020	1'F'+73	-	3'F'+28		--	155	--	--	155	--	--	--	--	--	--
0020	3'F'+29	-	6'F'+84		--	--	--	--	--	--	--	--	--	--	355
0020	3'F'+51	-	6'F'+78		--	--	--	--	--	--	--	--	--	--	--
				TOTAL 0020	0	211	0	1	211	12,180	1	4	1	0	355
				PROJECT TOTALS	18	2,094	1,766	3	328	75,147	1	4	1	1	12,054

REST AREA 81 CONDUIT

CATEGORY	TO	FROM	652.0225 CONDUIT RIGID NONMETALLIC SCHEDULE 40 2-INCH LF	652.0235 CONDUIT RIGID NONMETALLIC SCHEDULE 40 3-INCH LF	652.0605 CONDUIT SPECIAL 2-INCH LF	REMARKS
0020	PB-4	LCI-1	7	--	--	
0020	LCI-1	LCI-2	125	--	--	
0020	LCI-2	LCI-3	89	--	--	
0020	LCI-3	LCI-4	131	--	--	
0020	LCI-4	LCI-5	106	--	--	
0020	LCI-5	End	12	--	--	
0020	PB-4	LCI-6	72	--	29	
0020	LCI-6	LCI-7	170	--	--	
0020	LCI-7	PB-5	--	--	19	
0020	PB-5	PB-6	--	--	38	
0020	PB-6	LCI-8	118	--	--	
0020	LCI-8	LCI-9	168	--	--	
0020	LCI-9	LCI-10	165	--	--	
0020	LCI-10	LCI-11	93	--	75	
0020	LCI-11	LCI-12	104	--	--	
0020	LCI-12	LCI-13	113	--	--	
0020	LCI-13	END	12	--	--	
0020	PB-5	LCI-14	167	--	38	
0020	LCI-14	LCI-15	118	--	--	
0020	LCI-15	END	12	--	--	
0020	PB-2	LCI-16	6	--	--	
0020	LCI-16	LCI-17	125	--	--	
0020	LCI-17	END	10	--	--	
0020	PB-2	LCI-18	73	--	46	
0020	LCI-18	LCI-19	58	--	66	
0020	LCI-19	LCI-20	124	--	--	
0020	LCI-20	END	13	--	--	
0020	PB-4	PB-3	--	--	182	(2) CONDUIT RUNS OF 91'
0020	PB-3	LCI-21	9	--	--	
0020	LCI-21	LCI-22	76	--	--	
0020	LCI-22	LCI-23	87	--	--	
0020	PB-3	LCC	--	21	--	(3) CONDUIT RUNS OF 7'
0020	LCC	PB-1	--	21	--	(3) CONDUIT RUNS OF 7'
0020	PB-1	PB-2	138	--	--	(2) CONDUIT RUNS OF 69'
0020		UNDISTRIBUTED	9	--	57	
		TOTAL 0020	2,510	42	550	

REST AREA 81 PULL BOXES & CABINET

CATEGORY	LOCATION	653.0164 PULL BOXES NON-CONDUCTIVE 24X42-INCH EACH	654.0230 CONCRETE CONTROL CABINET BASES TYPE L30 EACH	656.0201.01 ELECTRICAL SERVICE METER BREAKER PEDESTAL (LOCATION) (01. REST AREA 81) EACH	659.2130 LIGHTING CONTROL CABINETS 120/240 30-INCH EACH
0020	PB1	1	--	--	--
0020	PB2	1	--	--	--
0020	PB3	1	--	--	--
0020	PB4	1	--	--	--
0020	PB5	1	--	--	--
0020	PB6	1	--	--	--
0020	PB7	1	--	--	--
0020	PB8	1	--	--	--
0020	LCC	--	1	1	1
	TOTAL 0020	8	1	1	1

REST AREA 82 LIGHTING

CATEGORY	STATION	LOCATION	* 204.0195 REMOVING CONCRETE BASES EACH	654.0102 CONCRETE BASES TYPE 2 EACH	SPV.0060.02 SPECIAL (02. SALVAGE AND REINSTALL LIGHT POLE ASSEMBLIES REST AREA 82) EACH	REMARKS
0020	2'F'+25	26' LT	1	--	--	NB REST AREA
0020	3'F'+00	26' LT	1	--	--	NB REST AREA
0020	4'F'+12	6' RT	1	1	1	NB REST AREA
0020	6'F'+12	6' RT	1	1	1	NB REST AREA
		TOTAL 0020	4	2	2	

* ADDITIONAL QUANTITIES ELSEWHERE

3

REST AREA 81 WIRE

CATEGORY	FROM	TO	655.0610 ELECTRICAL WIRE LIGHTING 12 AWG LF	REMARKS
0020	LCC	LCI-1	705	
0020	LCI-1	LCI-2	625	
0020	LCI-2	LCI-3	445	
0020	LCI-3	LCI-4	655	
0020	LCI-4	LCI-5	318	
0020	LCC	LCI-6	1,175	
0020	LCI-6	LCI-7	850	
0020	LCI-7	LCI-8	1,035	
0020	LCI-8	LCI-9	840	
0020	LCI-9	LCI-10	825	
0020	LCI-10	LCI-11	840	
0020	LCI-11	LCI-12	520	
0020	LCI-12	LCI-13	339	
0020	LCI-7	LCI-14	1,350	
0020	LCI-14	LCI-15	354	
0020	LCC	LCI-16	595	
0020	LCI-16	LCI-17	375	
0020	LCC	LCI-18	1,160	
0020	LCI-18	LCI-19	620	
0020	LCI-19	LCI-20	372	
0020	LCC	LCI-21	108	
0020	LCI-21	LCI-22	228	
0020	LCI-22	LCI-23	261	
0020	--	LCI-1	282	LIGHT POLE
0020	--	LCI-2	282	LIGHT POLE
0020	--	LCI-3	123	LIGHT POLE
0020	--	LCI-4	141	LIGHT POLE
0020	--	LCI-5	141	LIGHT POLE
0020	--	LCI-6	282	LIGHT POLE
0020	--	LCI-7	282	LIGHT POLE
0020	--	LCI-8	141	LIGHT POLE
0020	--	LCI-9	141	LIGHT POLE
0020	--	LCI-10	141	LIGHT POLE
0020	--	LCI-11	141	LIGHT POLE
0020	--	LCI-12	141	LIGHT POLE
0020	--	LCI-13	141	LIGHT POLE
0020	--	LCI-14	141	LIGHT POLE
0020	--	LCI-15	141	LIGHT POLE
0020	--	LCI-16	45	LIGHT POLE
0020	--	LCI-17	45	LIGHT POLE
0020	--	LCI-18	45	LIGHT POLE
0020	--	LCI-19	45	LIGHT POLE
0020	--	LCI-20	45	LIGHT POLE
0020	--	LCI-21	45	LIGHT POLE
0020	--	LCI-22	45	LIGHT POLE
0020	--	LCI-23	45	LIGHT POLE
		TOTAL 0020	17,616	

REST AREA 81 LIGHT POLES

CATEGORY	LOCATION	* 654.0105 CONCRETE BASES TYPE 5 EACH	654.0111 CONCRETE BASES TYPE 11 EACH	657.0255 TRANSFORMER BASES BREAKAWAY 11 1/2-INCH BOLT CIRCLE EACH	657.0322 POLES TYPE 5-ALUMINUM EACH	657.0610 LUMINAIRE ARMS SINGLE MEMBER 4 1/2-INCH CLAMP 6-FT EACH	657.0710 LUMINAIRE ARMS TRUSS TYPE 4 1/2-INCH CLAMP 12-FT EACH	659.0700 LIGHTING UNITS WALKWAY EACH	659.1120 LUMINAIRES UTILITY LED B EACH
0020	LCI-1	1	--	1	1	2	--	--	2
0020	LCI-2	1	--	1	1	2	--	--	2
0020	LCI-3	1	--	1	1	1	--	--	1
0020	LCI-4	1	--	1	1	--	1	--	1
0020	LCI-5	1	--	1	1	--	1	--	1
0020	LCI-6	1	--	1	1	2	--	--	2
0020	LCI-7	1	--	1	1	2	--	--	2
0020	LCI-8	1	--	1	1	--	1	--	1
0020	LCI-9	1	--	1	1	--	1	--	1
0020	LCI-10	1	--	1	1	--	1	--	1
0020	LCI-11	1	--	1	1	--	1	--	1
0020	LCI-12	1	--	1	1	--	1	--	1
0020	LCI-13	1	--	1	1	--	1	--	1
0020	LCI-14	1	--	1	1	--	1	--	1
0020	LCI-15	1	--	1	1	--	1	--	1
0020	LCI-16	--	1	--	--	--	--	1	--
0020	LCI-17	--	1	--	--	--	--	1	--
0020	LCI-18	--	1	--	--	--	--	1	--
0020	LCI-19	--	1	--	--	--	--	1	--
0020	LCI-20	--	1	--	--	--	--	1	--
0020	LCI-21	--	1	--	--	--	--	1	--
0020	LCI-22	--	1	--	--	--	--	1	--
0020	LCI-23	--	1	--	--	--	--	1	--
	TOTAL 0020	15	8	15	15	9	10	8	19

* ADDITIONAL QUANTITIES ELSEWHERE

SAWING

CATEGORY	STATION	LOCATION	690.0150 SAWING ASPHALT LF	690.0250 SAWING CONCRETE LF	REMARKS
0010	747'SB'+27	--	32	16	STAGE 1A
0010	747'SB'+27	--	21	--	STAGE 1B
0010	998'SB'+40	--	10	32	STAGE 1A
0010	998'SB'+40	--	7	32	STAGE 1B
0010	1173'SB'+46	--	32	22	STAGE 1A
0010	1173'SB'+46	--	21	--	STAGE 1B
0010	1174'SB'+90	--	16	22	STAGE 1A
0010	1174'SB'+93	--	32	--	STAGE 1B
0010	1261'SB'+05	--	18	23	STAGE 1A
0010	1261'SB'+05	--	29	--	STAGE 1B
0010	1262'SB'+53	--	9	25	STAGE 1B
0010		CTH E/J	--	330	STAGE 1
0010		CTH E/J	8	275	STAGE 2
0010		CTH E/J	15	127	STAGE 3
0010		UNDISTRIBUTED	200	217	
		TOTAL 0010	450	1,121	
0020		REST AREA 81	330	10,570	
0020		REST AREA 82	40	959	
		TOTAL 0020	370	11,529	
		PROJECT TOTALS	820	12,650	

UTILITY WORK

CATEGORY	STATION	TO	STATION	LOCATION	* 204.0291.S ABANDONING SEWER CY	612.0902.S.01 INSULATION BOARD POLYSTYRENE (INCH) (01. 2-INCH) SY	SPV.0060.03 SPECIAL (03. CONNECT TO EXISTING WATER LINE) EA	SPV.0060.04 SPECIAL (04. YARD HYDRANT) EA	SPV.0060.05 SPECIAL (05. CURB STOP 1-INCH) EA	SPV.0090.03 SPECIAL (03. HDPE WATER SERVICE 1-INCH) LF
0020			1'F'+64	63' RT	--	--	--	1	--	--
0020			1'F'+85	1' RT	--	--	--	--	1	--
0020	1'F'+64	-	3'F'+02	REST AREA 82	--	--	--	--	--	205
0020	2'F'+20	-	2'F'+53	RT	3.5	--	--	--	--	--
0020			3'F'+02	26' LT	--	--	1	--	--	--
0020				UNDISTRIBUTED	--	8	--	--	--	--
				TOTAL 0020	3.5	8	1	1	1	205

* ADDITIONAL QUANTITIES ELSEWHERE

MARKING MOBILE REFLECTOMETER MEASUREMENTS

CATEGORY	STATION	TO	STATION	LOCATION	SPV.0125.01 SPECIAL (01. MARKING MOBILE REFLECTOMETER MEASUREMENTS (MRM)) MI	REMARKS
0010	747'SB'+08	-	1359'SB'+03	--	11.6	EDGELINE RT
0010	747'SB'+08	-	1359'SB'+03	--	11.6	CENTERLINE
0010	747'SB'+08	-	1359'SB'+03	--	11.6	EDGELINE LT
				TOTAL 0010	34.8	

BENCH MARKS & CONTROL POINTS			
NO.	STATION	ELEV.	DESCRIPTION
918	996'SB'+04.87	880.86	CP / IR 3/4" WITH RED CAP, 49.84' LT
947	997'SB'+01.87	859.83	CP / IR 3/4" WITH RED CAP, 33.48' RT
946	997'SB'+67.22	858.68	CP / IR 3/4" WITH RED CAP, 349.47' LT
502	998'SB'+37.01	882.85	BM / BRIDGE DISK, 35.08' LT

N

APPROX. R/W

ASPHALTIC FLUMES
RIPRAP MEDIUM
GEOTEXTILE TYPE HR (TYP)

COMMUNICATIONS
(MARQUETTE ADAMS TELEPHONE COOP INC)

ELECTRICITY
(PIONEER POWER AND LIGHT COMPANY)

CONCRETE SIDEWALK 4-INCH

432'LD'

IH 39 SB EXIT RAMP

REMOVING SMALL PIPE CULVERTS
CULVERT PIPE REINFORCED CONCRETE
CLASS-IV 36-INCH
APRON ENDWALLS FOR CULVERT PIPE
REINFORCED CONCRETE 36-INCH

IH 39 SB

BM 502

ELECTRICITY
(PIONEER POWER AND LIGHT COMPANY)

3903905292
APRON ENDWALLS FOR CULVERT
PIPE SALVAGE 30-INCH

SLOPE INTERCEPT (TYP)

998'SB'

5'

PT: 112'EB'+70.72
Y=288522.254
X=430606.972

CTH E / CTH J

CP 946

PI: 117'EB'+18.17
Y=288479.415
X=431052.362

REJECT CURB
AT NOSE

10.00

213'WB' 214'WB' 215'WB' 216'WB' 217'WB' 218'WB' 219'WB' 220'

113'EB' 114'EB' 115'EB' 116'EB' 117'EB' 118'EB' 119'EB' 120'

S84 37'58"E
129.28'

S84 23'24"E
200.00'

CTH E / CTH J

S84 33'48"E
118.17'

S84 54'51"E
69.60'

S84 32'53"E
280.33'

5'

MATCH LINE STA 120+00'EB'

PI: 114'EB'+00.00
Y=288510.161
X=430735.685

PI: 116'EB'+00.00
Y=288490.610
X=430934.728

PI: 117'EB'+87.77
Y=288473.245
X=431121.691

997'SB'

ELECTRICITY
(PIONEER POWER AND LIGHT COMPANY)

APPROX. R/W

COMMUNICATIONS
(FRONTIER COMMUNICATIONS OF WI LLC)

BEGIN CONSTRUCTION
STA 116'EB'+67

IH 39 SB ENTRANCE RAMP

430'LD'

CONCRETE SIDEWALK 4-INCH

SLOPE PAVING
CRUSHED AGGREGATE (TYP)

ADJUSTING INLET COVERS

SLOPE INTERCEPT (TYP)

REMOVING SMALL PIPE CULVERTS
CULVERT PIPE REINFORCED CONCRETE CLASS-IV 30-INCH
APRON ENDWALLS FOR CULVERT PIPE REINFORCED CONCRETE 30-INCH

LEGEND

- SURFACE WATER FLOW
- XXXXXXXX SAWING ASPHALT
- AAAAAAAA SAWING CONCRETE

VCL = 200.00
K = 425.97

STA 116+67.00 'EB'
EL 858.21

EXISTING PROFILE

0.61%

FINISHED PROFILE

VPC STA 118+00.00 'EB'
VPC EL 859.01

VPI STA 119+00.00 'EB'
VPI EL 859.62

VPT STA 120+00.00 'EB'
VPT EL 860.69

865 860 855 850

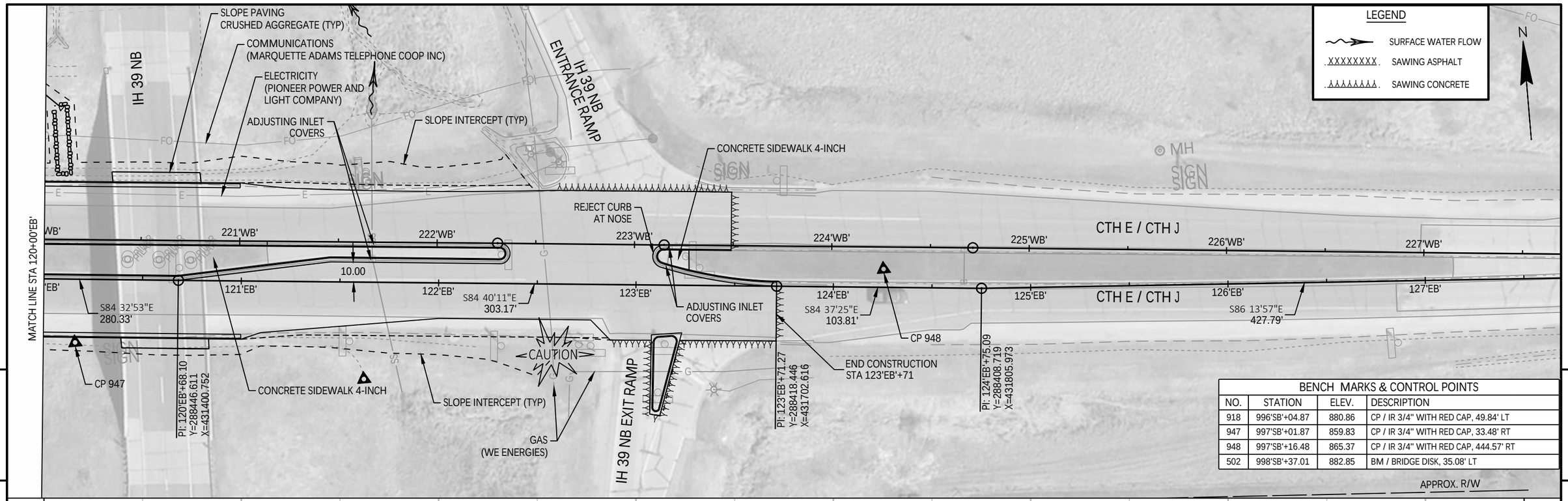
858.18 858.40 858.41 858.71 858.71 859.02 859.01 859.36 859.35 859.82 859.74 860.25 860.19 860.72 860.69

112 113 114 115 116 117 118 119 120

PROJECT NO: 1166-04-85	HWY: IH 39	COUNTY: MARQUETTE	PLAN AND PROFILE: CTH E/J EB	SHEET 136	E

FILE NAME : G:\00\00093\00093777\CADD\SHEETSPLAN\050101-PP.DWG
LAYOUT NAME - 050101-pp

PLOT DATE : 5/5/2026 10:26 AM PLOT BY : SHAWN DOLENS PLOT NAME : PLOT SCALE : 1 IN:50 FT



PROJECT NO: 1166-04-85	HWY: IH 39	COUNTY: MARQUETTE	PLAN AND PROFILE: CTH E/J EB	SHEET 137	E

FILE NAME : G:\00\00093\00093777\CADD\SHEETSPLAN\050101-PP.DWG
LAYOUT NAME - 050102-pp

PLOT DATE : 5/5/2026 10:26 AM PLOT BY : SHAWN DOLENS PLOT NAME : PLOT SCALE : 1 IN:50 FT

LEGEND

SURFACE WATER FLOW

SAWING ASPHALT

SAWING CONCRETE

N

APPROX. R/W

ELECTRICITY
(PIONEER POWER AND LIGHT COMPANY)

COMMUNICATIONS
(MARQUETTE ADAMS TELEPHONE COOP INC)

ASPHALTIC FLUMES
RIPRAP MEDIUM
GEOTEXTILE TYPE HR (TYP)

BEGIN CONSTRUCTION
STA 216'WB'+55

PT: 214'WB'+39.59
Y=288525.489
X=430775.914

PI: 215'WB'+50.03
Y=288515.577
X=430885.879

PI: 216'WB'+55.04
Y=288505.357
X=430990.419

S84 50'58"E
110.44'

S84 24'59"E
105.01'

S84 36'06"E
298.63'

CTH E / CTH J

CTH E / CTH J

IH 39 SB EXIT RAMP

IH 39 SB ENTRANCE RAMP

432'LD'

371'LD'

REMOVING SMALL PIPE CULVERTS
CULVERT PIPE REINFORCED CONCRETE CLASS-IV 36-INCH
APRON ENDWALLS FOR CULVERT PIPE REINFORCED
CONCRETE 36-INCH

SLOPE INTERCEPT (TYP)

3903905292
APRON ENDWALLS FOR CULVERT
PIPE SALVAGE 30-INCH

ELECTRICITY
(PIONEER POWER AND LIGHT COMPANY)

BM 502

IH 39 SB

PI: 219'WB'+53.67
Y=288477.262
X=431287.724
998'SB'

CONCRETE SIDEWALK 4-INCH

REJECT CURB
AT NOSE

213'WB' 214'WB' 215'WB' 216'WB' 217'WB' 218'WB' 219'WB' 220'

113'EB' 114'EB' 115'EB' 116'EB' 117'EB' 118'EB' 119'EB' 120'

CP 946

ELECTRICITY
(PIONEER POWER AND LIGHT COMPANY)

APPROX. R/W

COMMUNICATIONS
(FRONTIER COMMUNICATIONS OF WI LLC)

CONCRETE SIDEWALK 4-INCH

SLOPE INTERCEPT (TYP)

SLOPE PAVING
CRUSHED AGGREGATE (TYP)

997'SB'

REMOVING SMALL PIPE CULVERTS
CULVERT PIPE REINFORCED CONCRETE CLASS-IV 30-INCH
APRON ENDWALLS FOR CULVERT PIPE REINFORCED CONCRETE 30-INCH

MATCH LINE STA 220+00'WB'

BENCH MARKS & CONTROL POINTS			
NO.	STATION	ELEV.	DESCRIPTION
918	996'SB'+04.87	880.86	CP / IR 3/4" WITH RED CAP, 49.84' LT
947	997'SB'+01.87	859.83	CP / IR 3/4" WITH RED CAP, 33.48' RT
946	997'SB'+67.22	858.68	CP / IR 3/4" WITH RED CAP, 349.47' LT
502	998'SB'+37.01	882.85	BM / BRIDGE DISK, 35.08' LT

VCL = 200.00

K = 692.75

STA 216+55.00 'WB'
EL 858.12

EXISTING PROFILE

FINISHED PROFILE

0.67%

VPC STA 218+00.00 'WB'
VPC EL 859.10

VPI STA 219+00.00 'WB'
VPI EL 859.77

VPT STA 220+00.00 'WB'
VPT EL 860.73

865 860 855 850

				858.09	858.44	858.42	858.80	858.76	859.10	859.10
859.52	859.45	859.83	859.84	860.08	860.27	860.54	860.73			

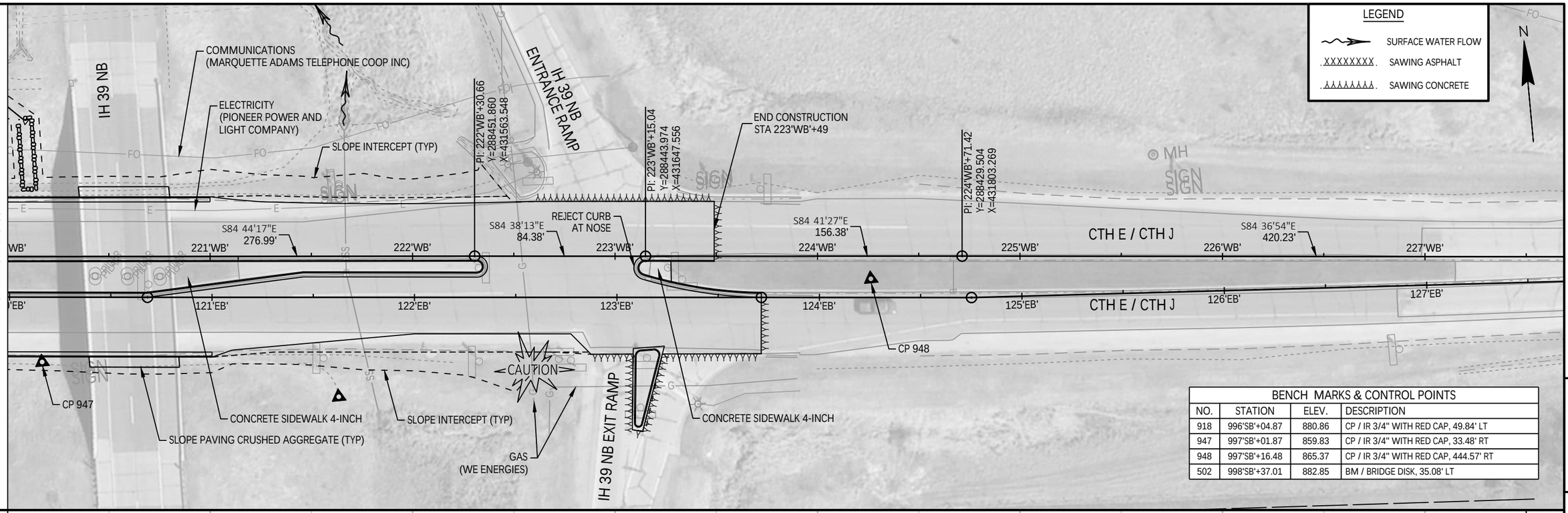
212 213 214 215 216 217 218 219 220

PROJECT NO: 1166-04-85	HWY: IH 39	COUNTY: MARQUETTE	PLAN AND PROFILE: CTH E/J WB	SHEET 138	E

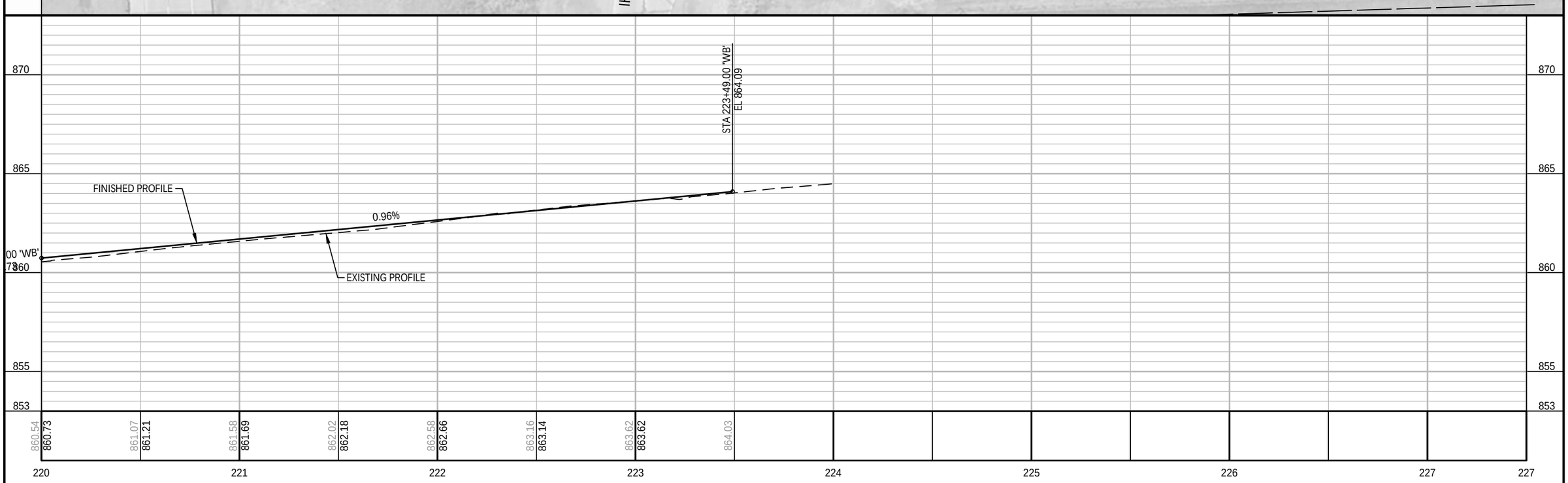
FILE NAME : G:\00\00093\00093777\CADD\SHEETSPLAN\050101-PP.DWG
LAYOUT NAME - 050103-pp

PLOT DATE : 5/5/2026 10:26 AM PLOT BY : SHAWN DOLENS PLOT NAME : PLOT SCALE : 1 IN:50 FT

WISDOT/CADDS SHEET 44



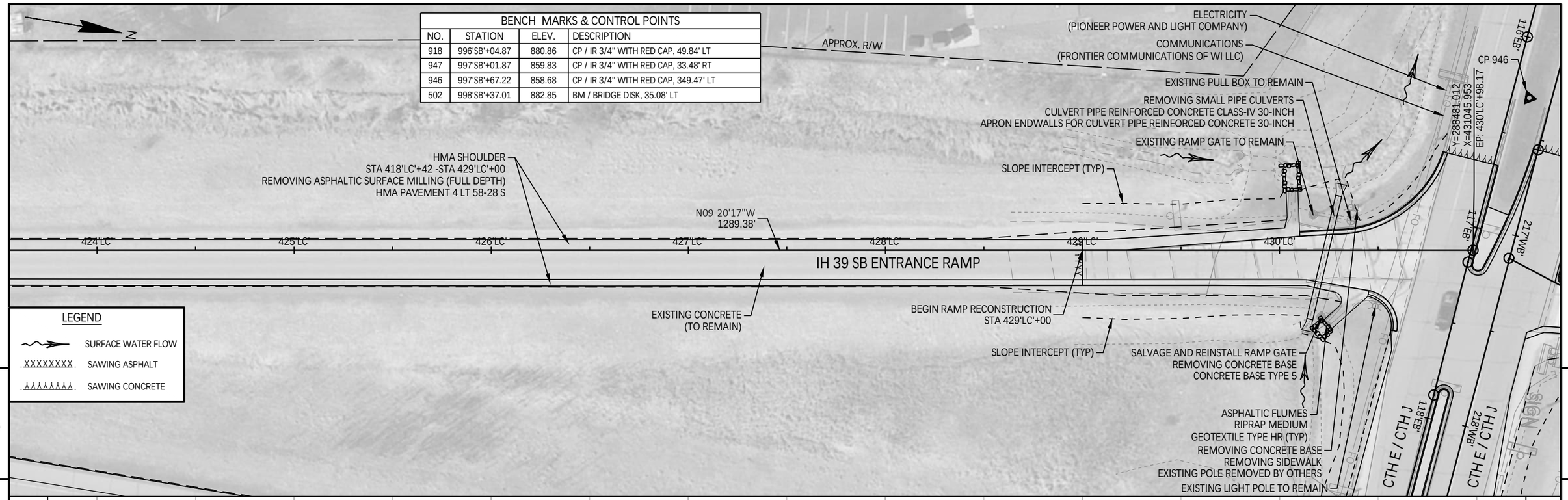
BENCH MARKS & CONTROL POINTS			
NO.	STATION	ELEV.	DESCRIPTION
918	996'SB'+04.87	880.86	CP / IR 3/4" WITH RED CAP, 49.84' LT
947	997'SB'+01.87	859.83	CP / IR 3/4" WITH RED CAP, 33.48' RT
948	997'SB'+16.48	865.37	CP / IR 3/4" WITH RED CAP, 444.57' RT
502	998'SB'+37.01	882.85	BM / BRIDGE DISK, 35.08' LT

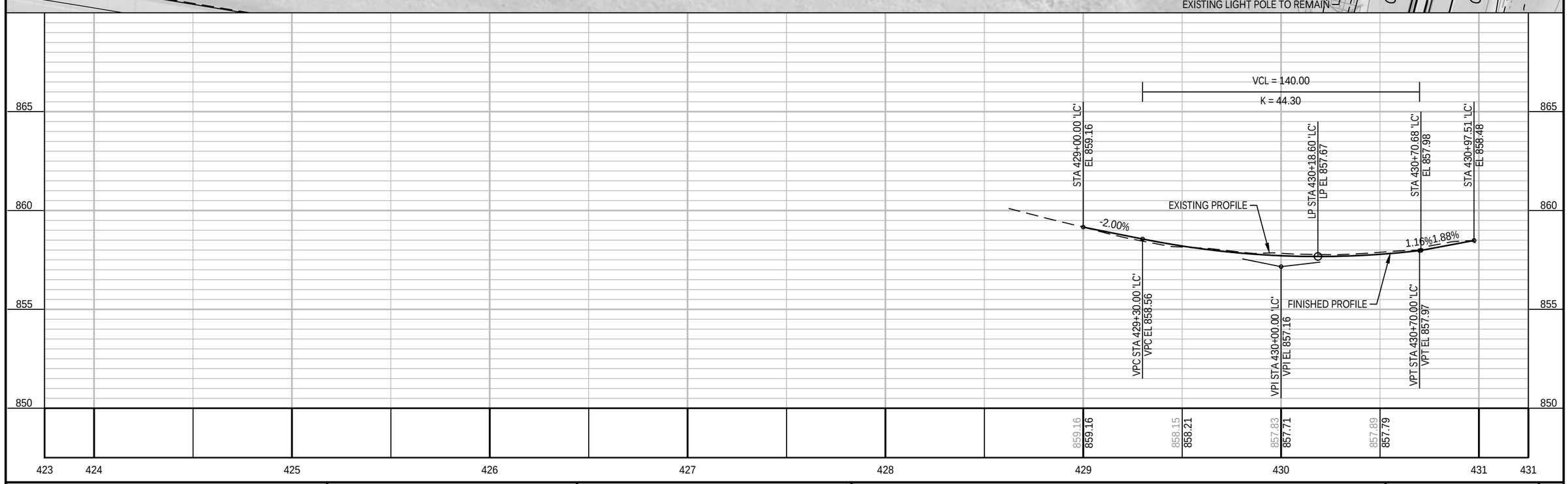


PROJECT NO: 1166-04-85	HWY: IH 39	COUNTY: MARQUETTE	PLAN AND PROFILE: CTH E/J WB	SHEET 139	E

FILE NAME : G:\00\00093\00093777\CADD\SHEETSPLAN\050101-PP.DWG
LAYOUT NAME - 050104-pp
PLOT DATE : 5/5/2026 10:26 AM
PLOT BY : SHAWN DOLENS
PLOT NAME :
PLOT SCALE : 1 IN:50 FT

BENCH MARKS & CONTROL POINTS			
NO.	STATION	ELEV.	DESCRIPTION
918	996'SB'+04.87	880.86	CP / IR 3/4" WITH RED CAP, 49.84' LT
947	997'SB'+01.87	859.83	CP / IR 3/4" WITH RED CAP, 33.48' RT
946	997'SB'+67.22	858.68	CP / IR 3/4" WITH RED CAP, 349.47' LT
502	998'SB'+37.01	882.85	BM / BRIDGE DISK, 35.08' LT





PROJECT NO: 1166-04-85	HWY: IH 39	COUNTY: MARQUETTE	PLAN AND PROFILE: IH 39 SB ENTRANCE RAMP	SHEET 140	E

FILE NAME : G:\00\00093\00093777\CADD\SHEETSPLAN\050101-PP.DWG
LAYOUT NAME - 050105-pp

PLOT DATE : 5/5/2026 10:26 AM PLOT BY : SHAWN DOLENS PLOT NAME : PLOT SCALE : 1 IN:50 FT

WISDOT/CADDS SHEET 44

BENCH MARKS & CONTROL POINTS			
NO.	STATION	ELEV.	DESCRIPTION
946	997+67.22	858.68	CP / IR 3/4" WITH RED CAP, 349.47' LT
502	998+37.01	882.85	BM / BRIDGE DISK, 35.08' LT
917	1001+80.46	870.36	CP / IR 3/4" WITH RED CAP, 51.67' LT

CP 946
EXISTING LIGHT POLE TO REMAIN
REMOVING SMALL PIPE CULVERTS
CULVERT PIPE REINFORCED CONCRETE CLASS-IV 36-INCH
APRON ENDWALLS FOR CULVERT PIPE REINFORCED CONCRETE 36-INCH
ASPHALTIC FLUMES
RIPRAP MEDIUM
GEOTEXTILE TYPE HR (TYP)
APPROX. R/W
SLOPE INTERCEPT (TYP)
END RAMP RECONSTRUCTION
STA 433'LD'+23
N18 32'21"E
473.82'
HMA SHOULDER
STA 433'LD'+23 -STA 439'LD'+95
REMOVING ASPHALTIC SURFACE MILLING (FULL DEPTH)
HMA PAVEMENT 4 LT 58-28 S
PC: 435'LD'+73.82
IH 39 SB EXIT RAMP
SLOPE INTERCEPT (TYP)
COMMUNICATIONS
(MARQUETTE ADAMS TELEPHONE COOP INC)
ELECTRICITY
(PIONEER POWER AND LIGHT UTILITY)
APRON ENDWALLS FOR CULVERT
PIPE SALVAGED 30-INCH
EXISTING CONCRETE
(TO REMAIN)
CP 917
CTH E / CTH J
BP: 431'LD'+00.00
Y=288849.624
X=431041.011
216'WB'
117'EB'
217'WB'
118'EB'
218'WB'
432'LD'
433'LD'
434'LD'
435'LD'
436'LD'
437'LD'
438'LD'
1004'SB'
1003'SB'

PI STA = 437+17.43'LD'
Y = 289085.016
X = 431243.326
DELTA = 11 57'27" LT
D = 4 10'42"
T = 143.61'
L = 286.18'
R = 1371.25'
PC STA = 435+73.82'LD'
Y = 288948.859
X = 431197.665
PT STA = 438+60.00'LD'
Y = 289227.678
X = 431259.786

N

LEGEND
SURFACE WATER FLOW
SAWING ASPHALT
SAWING CONCRETE

VCL = 120.00
K = 51.51
STA 431+00.00 'LD' EL 858.56
STA 431+26.30 'LD' EL 858.00
LP STA 431+98.02 'LD' LP EL 857.52
STA 433+23.00 'LD' EL 858.65
FINISHED PROFILE
EXISTING PROFILE
-2.13%
-1.13%
1.20%
VPC STA 431+40.00 'LD' VPC EL 857.85
VPI STA 432+00.00 'LD' VPI EL 857.17
VPT STA 432+60.00 'LD' VPT EL 857.89

865
860
855
850

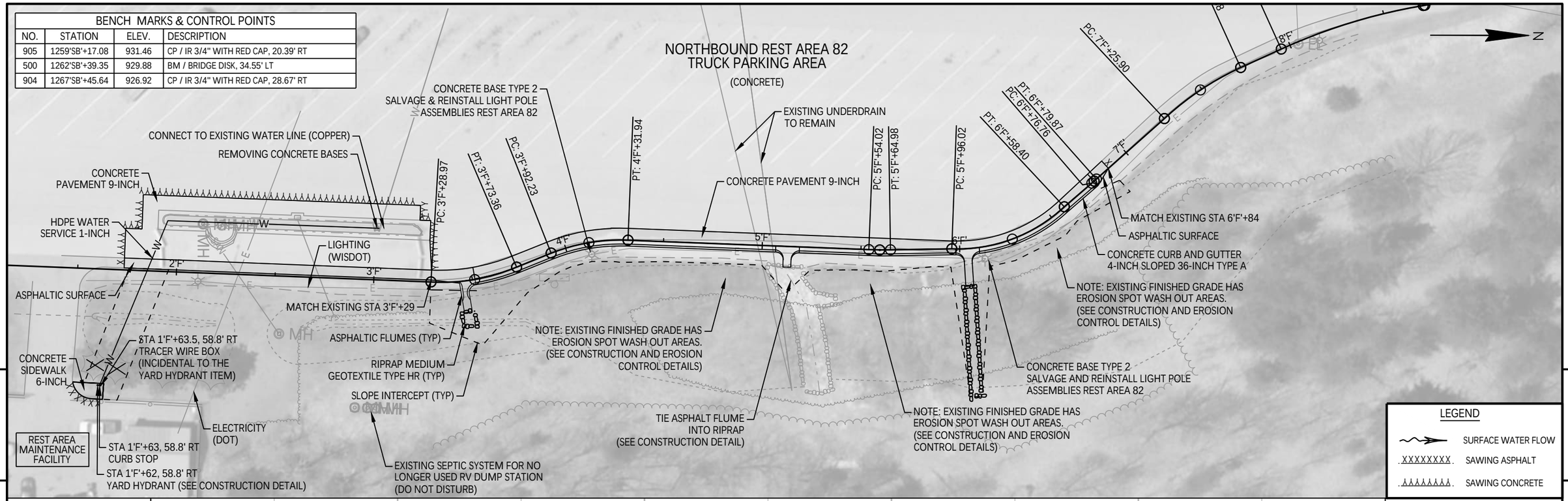
858.56 858.56 | 857.74 857.74 | 857.60 857.52 | 857.81 857.78 | 858.37 858.37

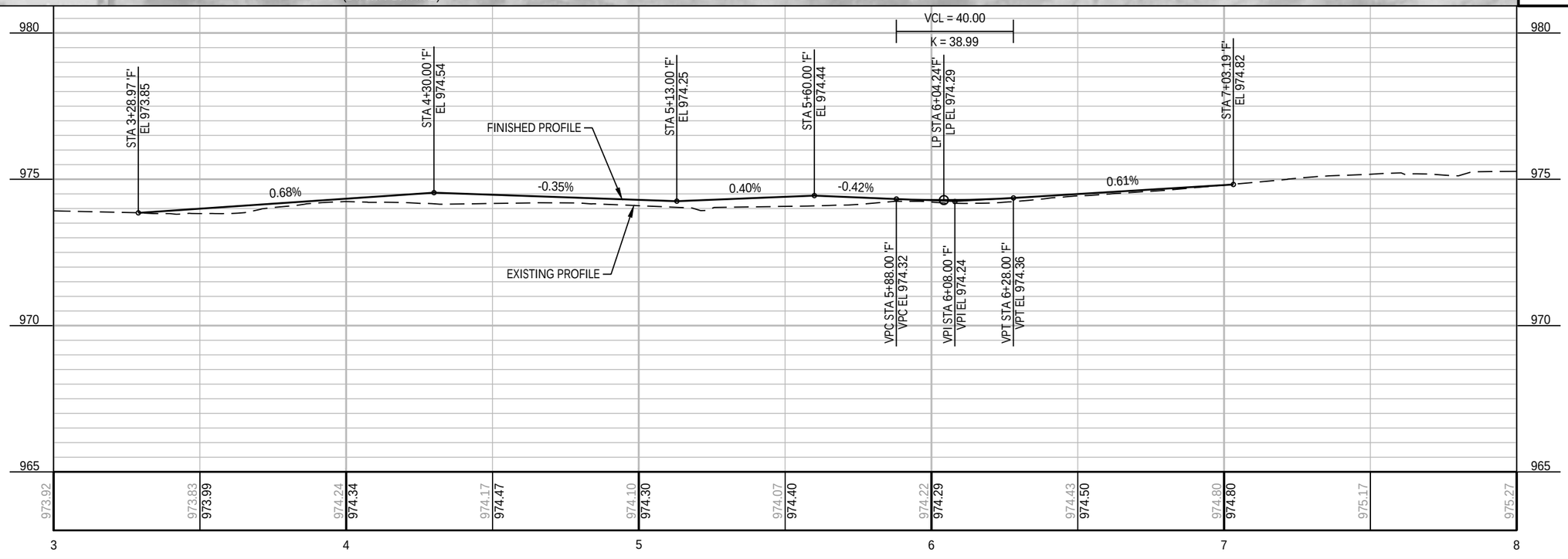
430 431 432 433 434 435 436 437 438 438

PROJECT NO: 1166-04-85	HWY: IH 39	COUNTY: MARQUETTE	PLAN AND PROFILE: IH 39 SB EXIT RAMP	SHEET 141	E

FILE NAME : G:\00\00093\00093777\CADD\SHEETSPLAN\050101-PP.DWG
LAYOUT NAME - 050106-pp
PLOT DATE : 5/5/2026 10:27 AM
PLOT BY : SHAWN DOLENS
PLOT NAME :
PLOT SCALE : 1 IN:50 FT

BENCH MARKS & CONTROL POINTS			
NO.	STATION	ELEV.	DESCRIPTION
905	1259'SB'+17.08	931.46	CP / IR 3/4" WITH RED CAP, 20.39' RT
500	1262'SB'+39.35	929.88	BM / BRIDGE DISK, 34.55' LT
904	1267'SB'+45.64	926.92	CP / IR 3/4" WITH RED CAP, 28.67' RT





PROJECT NO: 1166-04-85	HWY: IH 39	COUNTY: MARQUETTE	PLAN AND PROFILE: NB REST AREA 82	SHEET 142	E

BENCH MARKS & CONTROL POINTS			
NO.	STATION	ELEV.	DESCRIPTION
925	745'SB'+18.67	886.17	CP / IR 3/4" WITH RED CAP, 15.08' RT
505	747'SB'+14.67	888.64	BM / BRIDGE X ON WALL, 35.50' LT

N

SEE CONSTRUCTION AND EROSION CONTROL DETAILS (TYP)

STRUCTURE B-39-0010 (TO REMAIN)

APPROX. R/W

BM 505

6TH DR

N0 13' 58.24"E
9877.282

IH 39 SB

720'SB' 725'SB' 730'SB' 735'SB' 740'SB' 745'SB'

CP 925

IH 39 NB

BEGIN PROJECT 1166-04-85
STA 747'SB'+08
Y = 263,429.892
X = 431,397.752
MATCH EXISTING
BUTT JOINT REQUIRED

APPROX. R/W

CONCRETE CURB AND GUTTER
REPLACEMENT (TYP) SEE PLAN DETAILS

FAWN CT

MATCH LINE STA 749+00'SB'

MATCH LINE STA 749+00'SB'

N

COMMUNICATIONS
(MARQUETTE ADAMS TELEPHONE COOP INC)

SEE CONSTRUCTION AND EROSION CONTROL DETAILS (TYP)

CP 924

CP 923

6TH DR

APPROX. R/W

NO 13' 58.24"E
9877.282

IH 39 SB

750'SB' 755'SB' 760'SB' 765'SB' 770'SB' 775'SB'

IH 39 NB

CTH M

APPROX. R/W

ELECTRICITY
(ADAMS-COLUMBIA ELECTRIC)

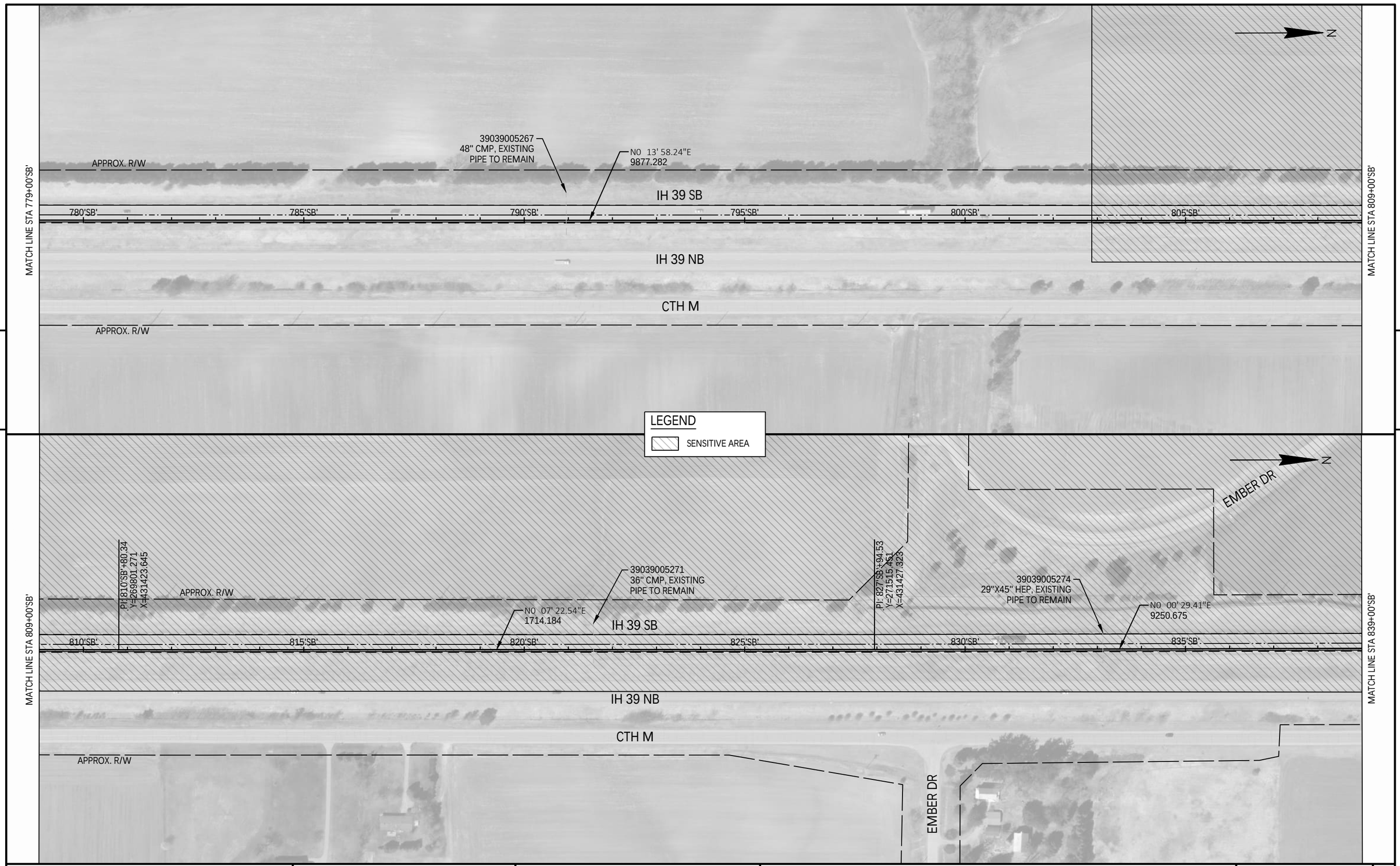
MATCH LINE STA 779+00'SB'

BENCH MARKS & CONTROL POINTS			
NO.	STATION	ELEV.	DESCRIPTION
924	753'SB'+37.24	884.89	CP / IR 3/4" WITH RED CAP, 43.25' LT
923	761'SB'+31.88	866.04	CP / IR 3/4" WITH RED CAP, 80.98' LT

PROJECT NO: 1166-04-85	HWY: IH 39	COUNTY: MARQUETTE	PLAN	SHEET 143	E

FILE NAME : G:\00\00093\00093777\CADD\SHEETSPLAN\050201-PN.DWG
LAYOUT NAME - 050201-pn

PLOT DATE : 6/28/2025 10:08 AM PLOT BY : SHAWN DOLENS PLOT NAME : PLOT SCALE : 1 IN:200 FT



PROJECT NO: 1166-04-85	HWY: IH 39	COUNTY: MARQUETTE	PLAN	SHEET 144	E

FILE NAME : G:\00\00093\00093777\CADD\SHEETSPLAN\050201-PN.DWG
LAYOUT NAME - 050202-pn

PLOT DATE : 6/28/2025 10:08 AM PLOT BY : SHAWN DOLENS PLOT NAME : PLOT SCALE : 1 IN:200 FT

BENCH MARKS & CONTROL POINTS			
NO.	STATION	ELEV.	DESCRIPTION
922	867'SB'+04.54	869.40	CP / IR 3/4" WITH RED CAP, 46.97' RT

N

CTH M / ELK RD

MATCH LINE STA 839+00'SB'

APPROX. R/W

39039005278
60" CMP, EXISTING
PIPE TO REMAIN

N0 00' 29.41"E
9250.675

SEE CONSTRUCTION AND EROSION CONTROL DETAILS (TYP)

IH 39 SB

840'SB' 845'SB' 850'SB' 855'SB' 860'SB' 865'SB'

IH 39 NB

CP 922

APPROX. R/W

CTH M

STA 844'SB'+69
MAINTENANCE CROSSOVER
2" REMOVING ASPHALTIC SURFACE MILLING
2" ASPHALTIC SURFACE
SEE CONSTRUCTION DETAIL

MATCH LINE STA 869+00'SB'

LEGEND

SENSITIVE AREA

5

5

N

COMMUNICATIONS
(MARQUETTE ADAMS TELEPHONE COOP INC)

39039005281
EXISTING 30" CMP - 112 LF
UV GRP CIPP 30-INCH, SEE CONSTRUCTION
AND EROSION CONTROL DETAILS (TYP)

MATCH LINE STA 869+00'SB'

APPROX. R/W

N0 00' 29.41"E
9250.675

IH 39 SB

870'SB' 875'SB' 880'SB' 885'SB' 890'SB' 895'SB'

IH 39 NB

MATCH LINE STA 899+00'SB'

CP 921

APPROX. R/W

BM 504

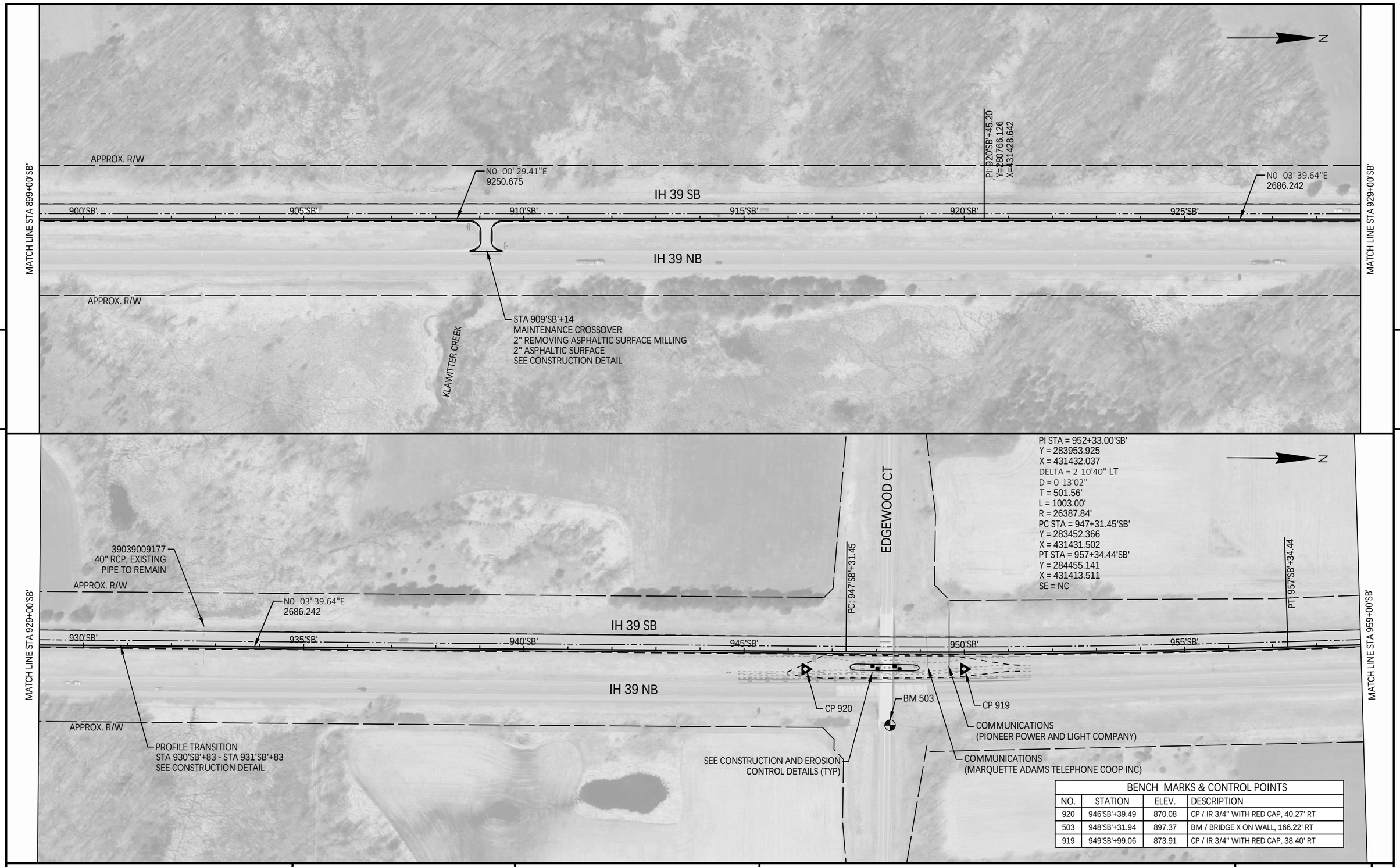
UNNAMED TRIBUTARY TO KLAWITTER CREEK

BENCH MARKS & CONTROL POINTS			
NO.	STATION	ELEV.	DESCRIPTION
504	869'SB'+07.41	892.98	BM / BRIDGE X ON WALL, 174.17' RT
921	870'SB'+68.48	864.70	CP / IR 3/4" WITH RED CAP, 42.81' RT

PROJECT NO: 1166-04-85	HWY: IH 39	COUNTY: MARQUETTE	PLAN	SHEET 145	E

FILE NAME : G:\00\00093\00093777\CADD\SHEETSPLAN\050201-PN.DWG
LAYOUT NAME - 050203-pn

PLOT DATE : 6/28/2025 10:09 AM PLOT BY : SHAWN DOLENS PLOT NAME : PLOT SCALE : 1 IN:200 FT



5

5

BENCH MARKS & CONTROL POINTS			
NO.	STATION	ELEV.	DESCRIPTION
920	946'SB'+39.49	870.08	CP / IR 3/4" WITH RED CAP, 40.27' RT
503	948'SB'+31.94	897.37	BM / BRIDGE X ON WALL, 166.22' RT
919	949'SB'+99.06	873.91	CP / IR 3/4" WITH RED CAP, 38.40' RT

PROJECT NO: 1166-04-85	HWY: IH 39	COUNTY: MARQUETTE	PLAN	SHEET 146	E

FILE NAME : G:\00\00093\00093777\CADD\SHEETSPLAN\050201-PN.DWG
LAYOUT NAME - 050204-pn

PLOT DATE : 6/28/2025 10:09 AM PLOT BY : SHAWN DOLENS PLOT NAME : PLOT SCALE : 1 IN:200 FT

KERST RD

39039005339
SEE CONSTRUCTION AND EROSION
CONTROL DETAILS (TYP)

39039005338
18" RCP, EXISTING
PIPE TO REMAIN

BP: 413+15.63 'LC'
PC: 982'SB'+92.59
PC: 417+00.00 'LC'
PT: 418+08.79 'LC'

420'LC'
415'LC'

APPROX. R/W

N2 07' 00.44"W
2558.151

IH 39 SB

960'SB' 965'SB' 970'SB' 975'SB' 980'SB' 985'SB'

IH 39 NB

MATCH LINE STA 959+00'SB'

MATCH LINE STA 989+00'SB'

STA 965'SB'+61
MAINTENANCE CROSSOVER
2" REMOVING ASPHALTIC SURFACE MILLING
2" ASPHALTIC SURFACE
SEE CONSTRUCTION DETAIL

APPROX. R/W

OLD J

5

5

PI STA = 990+42.61'SB'
Y = 287761.047
X = 431291.319
DELTA = 3 56'31" RT
D = 0 15'46"
T = 750.01'
L = 1499.43'
R = 21794.40'
PC STA = 982+92.59'SB'
Y = 287011.546
X = 431319.021
PT STA = 997+92.03'SB'
Y = 288510.680
X = 431315.206
SE = NC

EP: 430+98.17 'CC'

CTH E / CTH J

BP: 431+00.00 'LD'

CP 946

SEE INTERSECTION DETAIL
FOR WORK ON CTH E/J
AND SB RAMPS

COMMUNICATIONS
(MARQUETTE ADAMS TELEPHONE COOP INC)

PC: 435+73.82 'LD'

PT: 438+60.00 'LD'

N CHARLES ST

EP: 445+13.92 'LD'

COMMUNICATIONS
(FRONTIER COMMUNICATIONS OF WI LLC)

430'LC'

425'LC'

435'LD'

440'LD'

445'LD'

STRUCTURE B-39-0031 (TO REMAIN)

PT: 997+92.03 'SB'

CP 918

CP 917

IH 39 SB

N1 49' 30.40"E
4369.172

APPROX. R/W

CP 916

990'SB' 995'SB' 1000'SB' 1005'SB' 1010'SB' 1015'SB'

BM 502

EXCEPTION TO NET CL LENGTH
STA 996'SB'+65.92 - STA 998'SB'+27.92

CP 947

39039067465
12" CMP, EXISTING
PIPE TO REMAIN

IH 39 NB

SEE CONSTRUCTION AND EROSION
CONTROL DETAILS (TYP)

SEE PLAN AND PROFILE - CTH E/J WB
FOR CULVERT WORK

PROFILE TRANSITION
STA 1014'SB'+03 - STA 1015'SB'+03
SEE CONSTRUCTION DETAIL

ELECTRICITY
(PIONEER POWER AND LIGHT UTILITY COMPANY)

HARRIS CT

COMMUNICATIONS
(SPECTRUM)

ELECTRICITY
(PIONEER POWER AND LIGHT UTILITY COMPANY)

COMMUNICATIONS
(FRONTIER COMMUNICATIONS OF WI LLC)

APPROX. R/W

GAS
(WE ENERGIES)

CP 948

CHARLES S

MATCH LINE STA 989+00'SB'

MATCH LINE STA 1019+00'SB'

BENCH MARKS & CONTROL POINTS			
NO.	STATION	ELEV.	DESCRIPTION
918	996'SB'+04.87	880.86	CP / IR 3/4" WITH RED CAP, 49.84' LT
947	997'SB'+01.87	859.83	CP / IR 3/4" WITH RED CAP, 33.48' RT
946	997'SB'+67.22	858.68	CP / IR 3/4" WITH RED CAP, 349.47' LT
502	998'SB'+37.01	882.85	BM / BRIDGE DISK, 35.08' LT
948	997'SB'+16.48	865.37	CP / IR 3/4" WITH RED CAP, 444.57' RT
917	1001'SB'+80.46	870.36	CP / IR 3/4" WITH RED CAP, 51.67' LT

BENCH MARKS & CONTROL POINTS			
NO.	STATION	ELEV.	DESCRIPTION
916	1013'SB'+56.17	858.99	CP / IR 3/4" WITH RED CAP, 49.90' LT

PROJECT NO: 1166-04-85	HWY: IH 39	COUNTY: MARQUETTE	PLAN	SHEET 147	E

FILE NAME : G:\00\00093\00093777\CADD\SHEETSPLAN\050201-PN.DWG
LAYOUT NAME - 050205-pn

PLOT DATE : 6/28/2025 10:10 AM PLOT BY : SHAWN DOLENS PLOT NAME : PLOT SCALE : 1 IN:200 FT

BENCH MARKS & CONTROL POINTS			
NO.	STATION	ELEV.	DESCRIPTION
915	1023'SB'+55.96	863.13	CP / IR 3/4" WITH RED CAP, 22.76' RT
914	1030'SB'+82.38	880.51	CP / IR 3/4" WITH RED CAP, 66.25' LT

N

MATCH LINE STA 1019+00'SB'

SEE CONSTRUCTION AND EROSION CONTROL DETAILS (TYP)

APPROX. R/W

39039005297
54" CMP, EXISTING PIPE TO REMAIN

N1 49' 30.40"E
4369.172

CP 914

IH 39 SB

PI: 1041'SB'+61.20
Y=292877.636
X=431454.358

N1 47' 28.05"E
5085.487

1020'SB' 1025'SB' 1030'SB' 1035'SB' 1040'SB' 1045'SB'

CP 915

APPROX. R/W

IH 39 NB

STA 1023'SB'+97
MAINTENANCE CROSSOVER
2" REMOVING ASPHALTIC SURFACE MILLING
2" ASPHALTIC SURFACE
SEE CONSTRUCTION DETAIL

MATCH LINE STA 1049+00'SB'

LEGEND

SENSITIVE AREA

N

MATCH LINE STA 1049+00'SB'

39039009181
30" CMP, EXISTING PIPE TO REMAIN

39039005336
30" CMP, EXISTING PIPE TO REMAIN

SEE CONSTRUCTION AND EROSION CONTROL DETAILS (TYP)

APPROX. R/W

N1 47' 28.05"E
5085.487

CP 912

IH 39 SB

1050'SB' 1055'SB' 1060'SB' 1065'SB' 1070'SB' 1075'SB'

IH 39 NB

APPROX. R/W

MATCH LINE STA 1079+00'SB'

BENCH MARKS & CONTROL POINTS			
NO.	STATION	ELEV.	DESCRIPTION
912	1071'SB'+61.15	907.30	CP / IR 3/4" WITH RED CAP, 49.70' LT

PROJECT NO: 1166-04-85	HWY: IH 39	COUNTY: MARQUETTE	PLAN	SHEET 148	E

FILE NAME : G:\00\00093\00093777\CADD\SHEETSPLAN\050201-PN.DWG
LAYOUT NAME - 050206-pn

PLOT DATE : 6/28/2025 10:10 AM PLOT BY : SHAWN DOLENS PLOT NAME : PLOT SCALE : 1 IN:200 FT

WISDOT/CADDS SHEET 44

5

5

BENCH MARKS & CONTROL POINTS			
NO.	STATION	ELEV.	DESCRIPTION
913	1079'SB'+66.46	869.22	CP / NGS MARKER, 132.80' LT
911	1080'SB'+33.83	900.46	CP / IR 3/4" WITH RED CAP, 46.88' LT
910	1086'SB'+72.47	896.02	CP / IR 3/4" WITH RED CAP, 52.37' LT
909	1108'SB'+48.40	882.62	CP / IR 3/4" WITH RED CAP, 17.91' RT

LEGEND

SENSITIVE AREA

BENCH MARKS & CONTROL POINTS			
NO.	STATION	ELEV.	DESCRIPTION
908	1116'SB'+41.14	887.50	CP / IR 3/4" WITH RED CAP, 73.67' LT

PROJECT NO: 1166-04-85	HWY: IH 39	COUNTY: MARQUETTE	PLAN	SHEET 149	E

FILE NAME : G:\00\00093\00093777\CADD\SHEETSPLAN\050201-PN.DWG
LAYOUT NAME - 050207-pn

PLOT DATE : 6/28/2025 10:10 AM PLOT BY : SHAWN DOLENS PLOT NAME : PLOT SCALE : 1 IN:200 FT

PI STA = 1155+31.60'SB'
Y = 304241.092
X = 431410.996
DELTA = 3 49'49" LT
D = 0 15'53"
T = 723.51'
L = 1446.49'
R = 21638.18'
PC STA = 1148+08.09'SB'
Y = 303518.217
X = 431441.366
PT STA = 1162+54.57'SB'
Y = 304960.323
X = 431332.407
SE = NC

N

MATCH LINE STA 1139+00'SB'

APPROX. R/W

39039009180
42" CMP, EXISTING
PIPE TO REMAIN

N2 24' 20.52"W
3881.790

PC: 1148'SB'+08.09

39039005305
24" CMP, EXISTING
PIPE TO REMAIN

39039005334
30" CMP, EXISTING
PIPE TO REMAIN

PT: 1162'SB'+54.57

1140'SB' 1145'SB' 1150'SB' 1155'SB' 1160'SB' 1165'SB'

IH 39 SB

IH 39 NB

N6 14' 09.08"W
1337.075

MATCH LINE STA 1169+00'SB'

APPROX. R/W

STA 1146'SB'+57
MAINTENANCE CROSSOVER
2" REMOVING ASPHALTIC SURFACE MILLING
2" ASPHALTIC SURFACE
SEE CONSTRUCTION DETAIL

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PI STA = 1196+22.20'SB'
Y = 308307.681
X = 430963.453
DELTA = 4 53'47" RT
D = 0 14'40"
T = 1002.02'
L = 2002.81'
R = 23436.69'
PC STA = 1186+20.19'SB'
Y = 307311.707
X = 431073.322
PT STA = 1206+23.00'SB'
Y = 309309.397
X = 430938.994
SE = NC

N

MATCH LINE STA 1169+00'SB'

DOVER CT

COMMUNICATIONS
(MARQUETTE ADAMS TELEPHONE COOP INC)

COMMUNICATIONS
(FRONTIER COMMUNICATIONS OF WI LLC)

STRUCTURE B-39-0033 (TO REMAIN)

EXCEPTION TO NET CL LENGTH
STA 1173'SB'+59.02 - STA 1174'SB'+74.02

39039005333
42" CMP, EXISTING
PIPE TO REMAIN

CP 907

BM 501

PI: 1175'SB'+91.65
Y=306289.487
X=431187.172

CP 906

PI: 1180'SB'+45.82
Y=306740.800
X=431136.300

39039005332
24" CMP, EXISTING
PIPE TO REMAIN

PC: 1186'SB'+20.19

39039005331
48" CMP, EXISTING
PIPE TO REMAIN

APPROX. R/W

IH 39 SB

1170'SB' 1175'SB' 1180'SB' 1185'SB' 1190'SB' 1195'SB'

N6 14' 09.08"W
1337.075

N6 25' 52.49"W
454.171

N6 17' 42.05"W
574.370

SEE CONSTRUCTION AND EROSION
CONTROL DETAILS FOR CONCRETE
PAVEMENT APPROACH
SLAB REPLACEMENT (TYP)

SEE CONSTRUCTION AND EROSION
CONTROL DETAILS (TYP)

OVERHEAD ELECTRICITY
(ALLIANT ENERGY)

STA 1193'SB'+33
MAINTENANCE CROSSOVER
2" REMOVING ASPHALTIC SURFACE MILLING
2" ASPHALTIC SURFACE
SEE CONSTRUCTION DETAIL

39039005330
24" CMP, EXISTING
PIPE TO REMAIN

APPROX. R/W

IH 39 NB

BENCH MARKS & CONTROL POINTS

NO.	STATION	ELEV.	DESCRIPTION
907	1173'SB'+08.56	927.87	CP / IR 3/4" WITH MSA CAP, 55.50' LT
501	1174'SB'+85.09	930.63	BM / BRIDGE DISK, 36.40' LT
906	1178'SB'+05.23	923.21	CP / IR 3/4" WITH MSA CAP, 51.45' LT

PROJECT NO: 1166-04-85	HWY: IH 39	COUNTY: MARQUETTE	PLAN	SHEET 150	E

FILE NAME : G:\00\00093\00093777\CADD\SHEETSPLAN\050201-PN.DWG
LAYOUT NAME - 050208-pn

PLOT DATE : 6/28/2025 10:10 AM PLOT BY : SHAWN DOLENS PLOT NAME : PLOT SCALE : 1 in:200 FT

5

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PROJECT NO: 1166-04-85	HWY: IH 39	COUNTY: MARQUETTE	PLAN	SHEET 151	E

BENCH MARKS & CONTROL POINTS			
NO.	STATION	ELEV.	DESCRIPTION
905	1259'SB'+17.07	931.46	CP / IR 3/4" WITH CAP, 20.39' RT
500	1262'SB'+39.34	929.88	BM / BRIDGE DISK, 34.55' LT
904	1267'SB'+45.65	926.92	CP / IR 3/4" WITH CAP, 28.62' RT

PI STA = 1271+62.43'SB'
Y = 315846.884
X = 430779.366
DELTA = 39 26'45" LT
D = 1 28'18"
T = 1395.69'
L = 2680.25'
R = 3893.11'
PC STA = 1257+66.74'SB'
Y = 314451.607
X = 430813.435
PT STA = 1284+46.99'SB'
Y = 316902.706
X = 429866.570
SE = 4.5%

MATCH LINE STA 1259+00'SB'

STRUCTURE B-39-0040 (TO REMAIN)
EXCEPTION TO NET CL LENGTH
STA 1261'SB'+25.25 - STA 1262'SB'+40.39

BM 500

SEE CONSTRUCTION AND EROSION CONTROL DETAILS (TYP)

CP 905

SEE CONSTRUCTION AND EROSION CONTROL DETAILS FOR CONCRETE PAVEMENT APPROACH SLAB REPLACEMENT (TYP)

1260'SB'

1265'SB'

1270'SB'

1275'SB'

1280'SB'

1285'SB'

CP 904

39039005326
24" CMP, EXISTING
PIPE TO REMAIN

39039005325
42" CMP, EXISTING
PIPE TO REMAIN

39039005324
24" CMP, EXISTING
PIPE TO REMAIN

PT: 1284+46.99'SB'

N40 50' 40.44"W
1702.047

APPROX. R/W

MATCH LINE STA 1289+00'SB'

IH 39 SB

IH 39 NB

CTH Z

ELECTRICITY
(PIONEER POWER AND LIGHT COMPANY)

STA 1269'SB'+59
MAINTENANCE CROSSOVER
2" REMOVING ASPHALTIC SURFACE MILLING
2" ASPHALTIC SURFACE
SEE CONSTRUCTION DETAIL

LEGEND

SENSITIVE AREA

PI STA = 1318+27.40'SB'
Y = 319459.944
X = 427655.749
DELTA = 40 19'08" RT
D = 1 15'12"
T = 1678.37'
L = 3217.06'
R = 4571.66'
PC STA = 1301+49.04'SB'
Y = 318190.282
X = 428753.416
PT STA = 1333+66.10'SB'
Y = 321138.239
X = 427640.348
SE = 4.0%

CTH CH

PC: 1301'SB'+49.04

1290'SB'

1295'SB'

1300'SB'

1305'SB'

1310'SB'

1315'SB'

39039005323
30" CMP, EXISTING
PIPE TO REMAIN

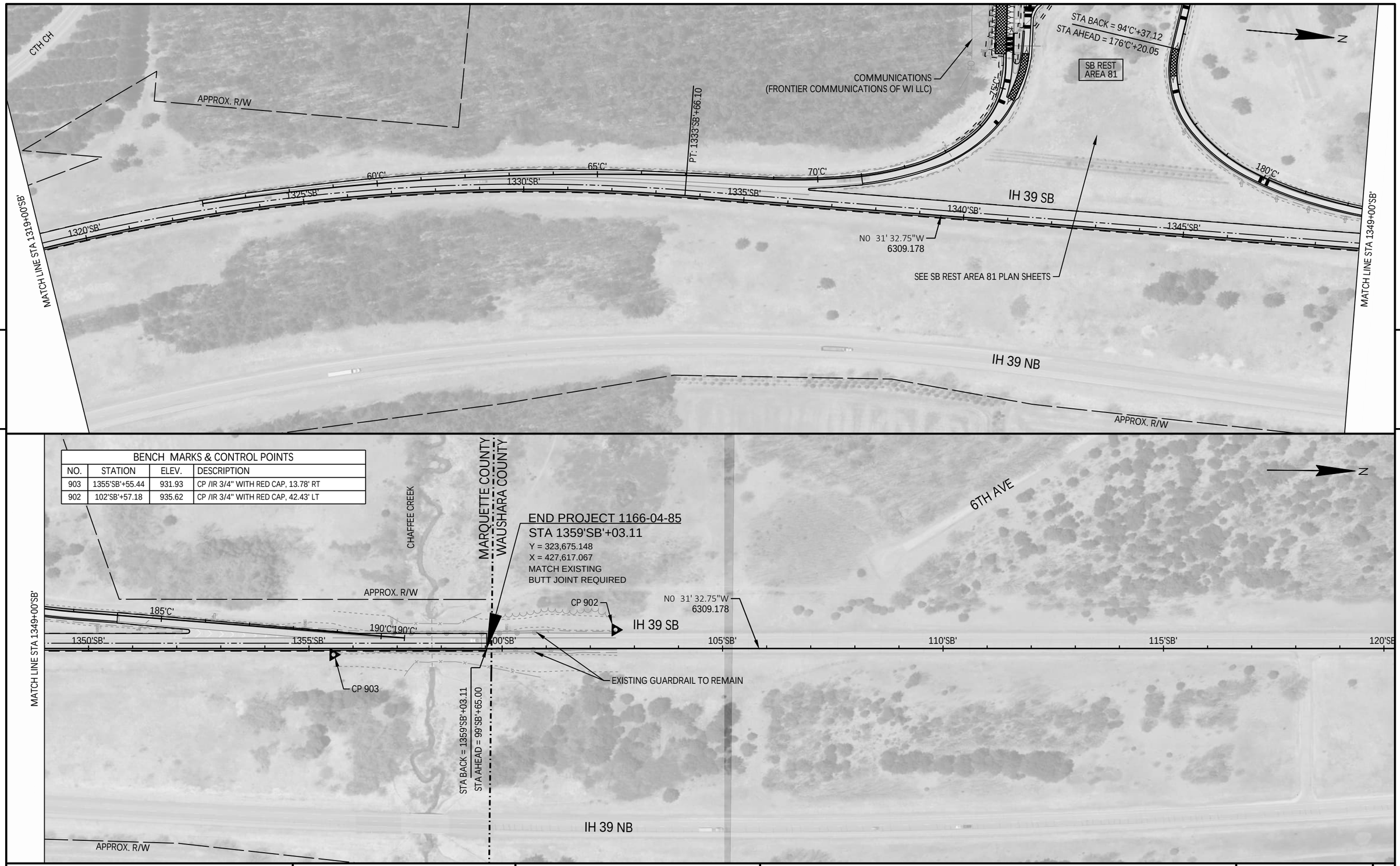
MATCH LINE STA 1319+00'SB'

PROJECT NO: 1166-04-85	HWY: IH 39	COUNTY: MARQUETTE	PLAN	SHEET 152	E

FILE NAME : G:\00\00093\00093777\CADD\SHEETSPLAN\050201-PN.DWG
LAYOUT NAME - 050210-pn

PLOT DATE : 6/28/2025 10:11 AM PLOT BY : SHAWN DOLENS PLOT NAME : PLOT SCALE : 1 IN:200 FT

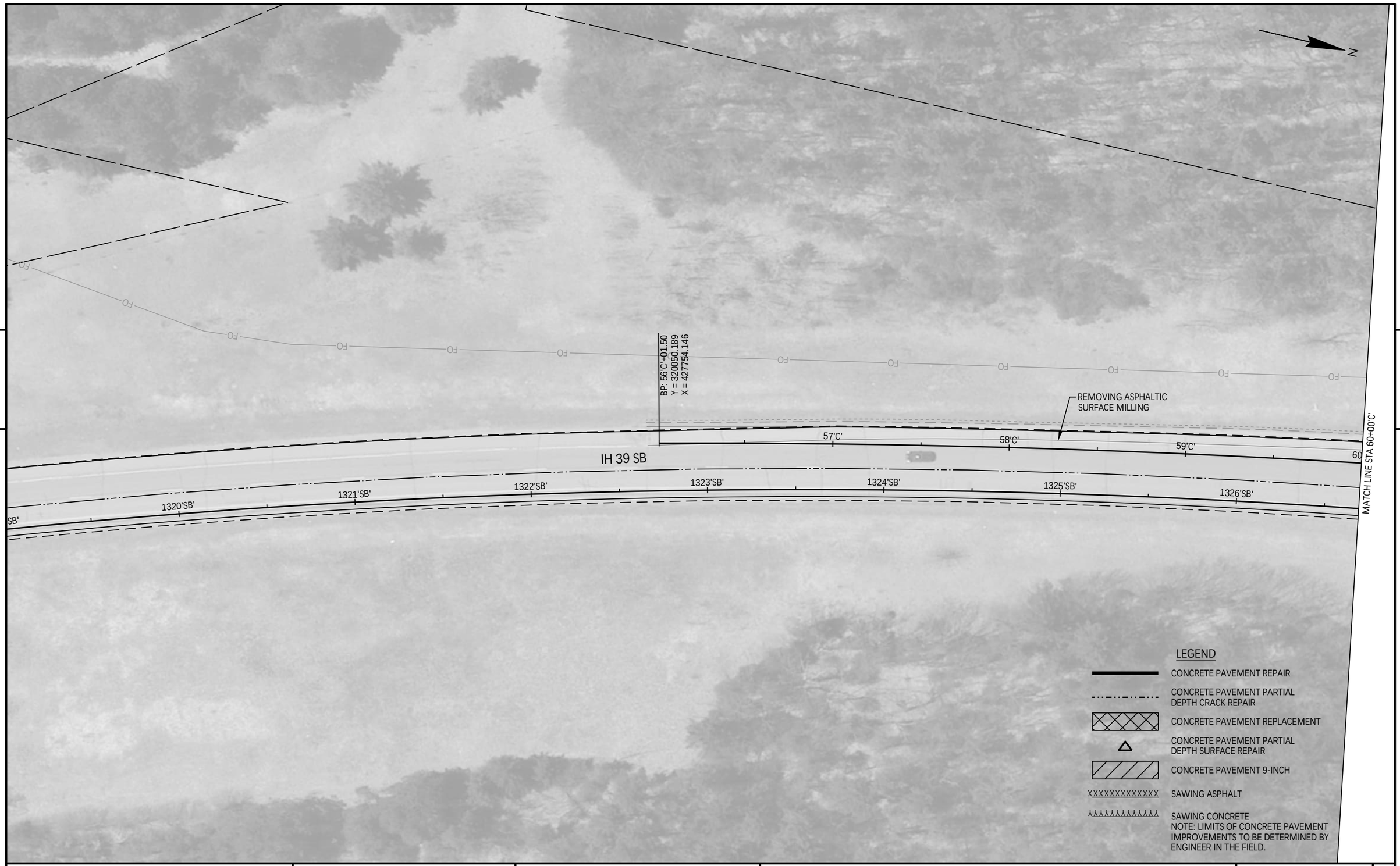
WISDOT/CADDS SHEET 44



PROJECT NO: 1166-04-85	HWY: IH 39	COUNTY: MARQUETTE	PLAN	SHEET 153	E

FILE NAME : G:\00\00093\00093777\CADD\SHEETSPLAN\050201-PN.DWG
LAYOUT NAME - 050211-pn

PLOT DATE : 6/28/2025 10:11 AM PLOT BY : SHAWN DOLENS PLOT NAME : PLOT SCALE : 1 IN:200 FT



PROJECT NO: 1166-04-85	HWY: IH 39	COUNTY: MARQUETTE	PLAN - SB REST AREA 81	SHEET 154	E

FILE NAME : G:\00\00093\00093777\CADD\SHEETSPLAN\050202-PN.DWG
LAYOUT NAME - 050212-pn

PLOT DATE : 6/28/2025 7:31 AM PLOT BY : SHAWN DOLENS PLOT NAME : PLOT SCALE : 1 IN:50 FT

PI STA = 62+37.73'C'
Y = 320669.071
X = 427606.601
DELTA = 11 40'48" RT
D = 0 55'16"
T = 636.23'
L = 1268.04'
R = 6220.34'
PC STA = 56+01.50'C'
Y = 320050.189
X = 427754.146
PT STA = 68+69.54'C'
Y = 321305.007
X = 427587.402
DB = N13 24'33"W
DA = N01 43'45"W

N

5

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REMOVING ASPHALTIC SURFACE MILLING

MATCH LINE STA 60+00'C'

MATCH LINE STA 67+50'C'

61'C' 62'C' 63'C' 64'C' 65'C' 66'C' 67'C'

IH 39 SB

1327'SB' 1328'SB' 1329'SB' 1330'SB' 1331'SB' 1332'SB' 1333'SB' 1334'SB'

PT: 1333'SB'+66.10

LEGEND

- CONCRETE PAVEMENT REPAIR
- CONCRETE PAVEMENT PARTIAL DEPTH CRACK REPAIR
- CONCRETE PAVEMENT REPLACEMENT
- CONCRETE PAVEMENT PARTIAL DEPTH SURFACE REPAIR
- CONCRETE PAVEMENT 9-INCH
- SAWING ASPHALT
- SAWING CONCRETE

NOTE: LIMITS OF CONCRETE PAVEMENT IMPROVEMENTS TO BE DETERMINED BY ENGINEER IN THE FIELD.

PROJECT NO: 1166-04-85	HWY: IH 39	COUNTY: MARQUETTE	PLAN - SB REST AREA 81	SHEET 155	E

FILE NAME : G:\00\00093\00093777\CADD\SHEETSPLAN\050202-PN.DWG
LAYOUT NAME - 050213-pn

PLOT DATE : 6/28/2025 7:31 AM PLOT BY : SHAWN DOLENS PLOT NAME : PLOT SCALE : 1 IN:50 FT

PI STA = 69+70.70'C'
Y = 321405.122
X = 427584.379
DELTA = 7 59'59" LT
D = 4 00'00"
T = 100.16'
L = 199.99'
R = 1432.39'
PC STA = 68+69.54'C'
Y = 321305.007
X = 427587.402
PT STA = 70+69.54'C'
Y = 321503.841
X = 427567.453
DB = N01 43'46"W
DA = N09 43'45"W

PI STA = 71+44.77'C'
Y = 321577.989
X = 427554.739
DELTA = 11 14'54" LT
D = 7 30'00"
T = 75.23'
L = 149.98'
R = 763.94'
PC STA = 70+69.54'C'
Y = 321503.841
X = 427567.453
PT STA = 72+19.51'C'
Y = 321648.232
X = 427527.806
DB = N09 43'48"W
DA = N20 58'42"W

PI STA = 72+95.49'C'
Y = 321719.175
X = 427500.603
DELTA = 22 30'02" LT
D = 15 00'00"
T = 75.98'
L = 150.00'
R = 381.97'
PC STA = 72+19.51'C'
Y = 321648.232
X = 427527.806
PT STA = 73+69.52'C'
Y = 321774.308
X = 427448.322
DB = N20 58'44"W
DA = N43 28'45"W

MATCH LINE STA 67+50'C'

MATCH LINE STA 75+00'C'

COMMUNICATIONS
(FRONTIER COMMUNICATIONS OF WI LLC)

PT: 68'C'+69.54

REMOVING ASPHALTIC
SURFACE MILLING

HMA SHOULDER
STA 71'C'+00 - STA 75'C'+79
REMOVING ASPHALTIC SURFACE MILLING (FULL DEPTH)
HMA PAVEMENT 4 LT 58-28 S

PCC: 73'C'+69.52

SLOPE INTERCEPT (TYP)

PCC: 70'C'+69.54

CAT 0020 - STA 71'C'+00

4' (TYP)

PCC: 72'C'+19.51

68'C'

69'C'

70'C'

71'C'

72'C'

73'C'

74'C'

74'TTT'

73'TTT'

75'TTT'

1335'SB'

1336'SB'

1337'SB'

1338'SB'

1339'SB'

1340'SB'

1341'SB'

IH 39 SB

ASPHALT

CONCRETE

N20 58'46"W
33.03'

4' (TYP)

BP: 72+19.55 'TTT'
Y = 321653.602
X = 427541.811

PC: 72+52.58 'TTT'

HMA SHOULDER
STA 71'C'+00 - STA 83'CT'+88
REMOVING ASPHALTIC SURFACE MILLING (FULL DEPTH)
HMA PAVEMENT 4 LT 58-28 S

PI STA = 74+65.18'C'
Y = 321843.717
X = 427382.493
DELTA = 50 06'38" LT
D = 27 59'59"
T = 95.66'
L = 178.97'
R = 204.63'
PC STA = 73+69.52'C'
Y = 321774.308
X = 427448.322
PT STA = 75+48.48'C'
Y = 321837.721
X = 427287.021
DB = N43 29'01"W
DA = S86 24'22"W

PI STA = 74+86.47'TTT'
Y = 321902.829
X = 427446.248
DELTA = 72 37'00" LT
D = 18 00'00"
T = 233.89'
L = 403.43'
R = 318.31'
PC STA = 72+52.58'TTT'
Y = 321684.440
X = 427529.986
PT STA = 76+56.00'TTT'
Y = 321888.163
X = 427212.816
DB = N20 58'43"W
DA = S86 24'18"W

N

LEGEND

- CONCRETE PAVEMENT REPAIR
- CONCRETE PAVEMENT PARTIAL DEPTH CRACK REPAIR
- CONCRETE PAVEMENT REPLACEMENT
- CONCRETE PAVEMENT PARTIAL DEPTH SURFACE REPAIR
- CONCRETE PAVEMENT 9-INCH
- SAWING ASPHALT
- SAWING CONCRETE
  NOTE: LIMITS OF CONCRETE PAVEMENT IMPROVEMENTS TO BE DETERMINED BY ENGINEER IN THE FIELD.

PROJECT NO: 1166-04-85	HWY: IH 39	COUNTY: MARQUETTE	PLAN - SB REST AREA 81	SHEET 156	E

FILE NAME : G:\00\00093\00093777\CADD\SHEETSPLAN\050202-PN.DWG
LAYOUT NAME - 050214-pn

PLOT DATE : 6/28/2025 7:31 AM PLOT BY : SHAWN DOLENS PLOT NAME : PLOT SCALE : 1 IN:50 FT

WISDOT/CADDS SHEET 44

BENCH MARKS & CONTROL POINTS			
NO.	STATION	ELEV.	DESCRIPTION
944	77+95.50 'C'	953.89	CP / IR 3/4" WITH RED CAP, 46.33' LT
512	78+10.72 'C'	961.77	BM / 'X' ON WELL TOP, 117.13' LT
945	79+69.71 'C'	955.05	CP / IR 3/4" WITH RED CAP, 43.99' LT

LEGEND

- CONCRETE PAVEMENT REPAIR
- CONCRETE PAVEMENT PARTIAL DEPTH CRACK REPAIR
- CONCRETE PAVEMENT REPLACEMENT
- CONCRETE PAVEMENT PARTIAL DEPTH SURFACE REPAIR
- CONCRETE PAVEMENT 9-INCH
- XXXXXXXXXXXXX SAWING ASPHALT
- SAWING CONCRETE
  NOTE: LIMITS OF CONCRETE PAVEMENT IMPROVEMENTS TO BE DETERMINED BY ENGINEER IN THE FIELD.

N

COMMUNICATIONS
(FRONTIER COMMUNICATIONS OF WI LLC)

HMA SHOULDER
STA 71'C'+00 - STA 75'C'+79
REMOVING ASPHALTIC SURFACE MILLING (FULL DEPTH)
HMA PAVEMENT 4 LT 58-28 S

STA 75'C'+04 - STA 76'C'+69
REMOVING ASPHALTIC SURFACE MILLING (FULL DEPTH)
HMA PAVEMENT 4 LT 58-28 S

EXISTING ATR STATION
(TO REMAIN)

CURB AND GUTTER
42-INCH TYPE A SPECIAL

CURB AND GUTTER
42-INCH TYPE A SPECIAL
RECONSTRUCTING INLETS

CONCRETE CURB AND
GUTTER 30-INCH TYPE A

CONCRETE CURB AND
GUTTER 30-INCH TYPE A

BM 512

CONCRETE CURB AND
GUTTER REPAIR (TYP)

CP 944

SEE CURB RAMP DETAILS

REMOVING CONCRETE BASES
(OLD CONCRETE BASE FOR FLAG
POLE NO LONGER USED)

6" UNDER DRAIN TO REMAIN

CONCRETE CURB AND
GUTTER 30-INCH TYPE A

EXISTING SANITARY SEWER
(DO NOT DISTURB)

ELECTRICITY
(DOT)

CP 945

SLOPE INTERCEPT (TYP)

CURB AND GUTTER
42-INCH TYPE A SPECIAL

PT: 75'C'+48.48

PC: 82'C'+10.22

5' (TYP)

MATCH LINE STA 75+00'C'

MATCH LINE STA 82+50'C'

76'C'

77'C'

78'C'

79'C'

80'C'

81'C'

82'C'

S86 24'21"W
661.74'

RECONSTRUCTING
INLETS

EXISTING ATR STATION
TO BE REPLACED BY OTHERS.
CONTACT WISDOT BUREAU
OF HIGHWAY MANAGEMENT
14 DAYS PRIOR TO WORK NEAR
ATR STATION

CONCRETE CURB AND
GUTTER 30-INCH TYPE A

PT: 76+56.00 'TTT'

HMA SHOULDER
STA 71'C'+00 - STA 83'CT'+88
REMOVING ASPHALTIC SURFACE MILLING (FULL DEPTH)
HMA PAVEMENT 4 LT 58-28 S

6' (TYP)

ELECTRICITY
(DOT)

77'TTT'

78'TTT'

79'TTT'

80'TTT'

81'TTT'

HMA SHOULDER
STA 83'C'+45 - STA 85'CT'+67
REMOVING ASPHALTIC SURFACE MILLING (FULL DEPTH)
HMA PAVEMENT 4 LT 58-28 S

S86 24'21"W
506.44'

EP: 81+62.44 'TTT'
Y = 321856.414
X = 426707.371

80'CT'

81'CT'

82'CT'

83'CT'

84

BP: 79'CT'+32.68
Y = 321969.924
X = 427078.743

CONCRETE CURB AND
GUTTER 30-INCH TYPE A

CONCRETE CURB AND
GUTTER 30-INCH TYPE A

ASPHALTIC FLUME
(MATCH INTO
EXISTING FLUME)

CURB AND GUTTER
42-INCH TYPE A SPECIAL

7' (TYP)

S86 24'21"W
462.16'

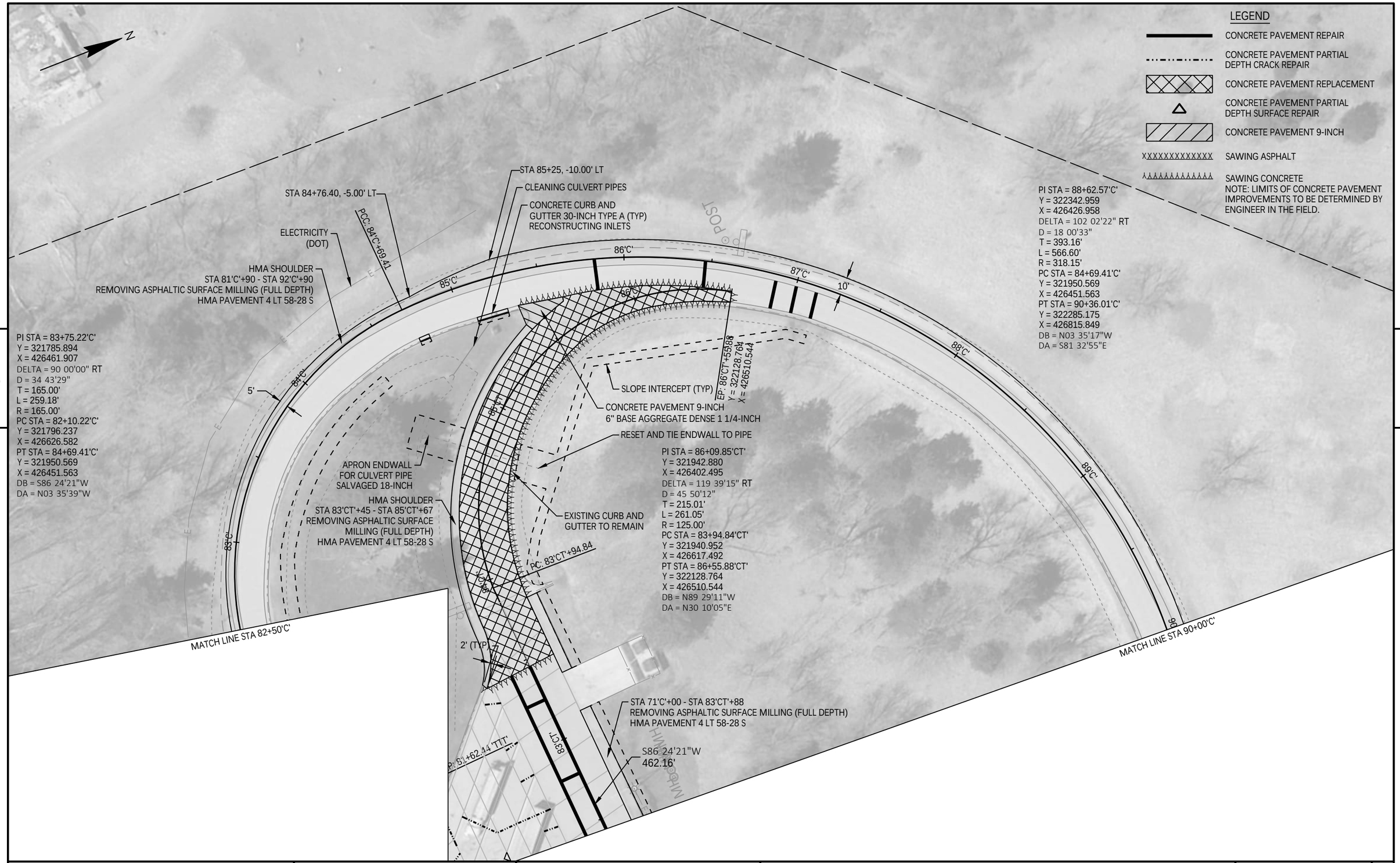
EXISTING SEPTIC SYSTEM
(DO NOT DISTURB)

PROJECT NO: 1166-04-85	HWY: IH 39	COUNTY: MARQUETTE	PLAN - SB REST AREA 81	SHEET 157	E

FILE NAME : G:\00\00093\00093777\CADD\SHEETSPLAN\050202-PN.DWG
LAYOUT NAME - 050215-pn

PLOT DATE : 6/28/2025 7:31 AM PLOT BY : SHAWN DOLENS PLOT NAME : PLOT SCALE : 1 IN:50 FT

WISDOT/CADDS SHEET 44

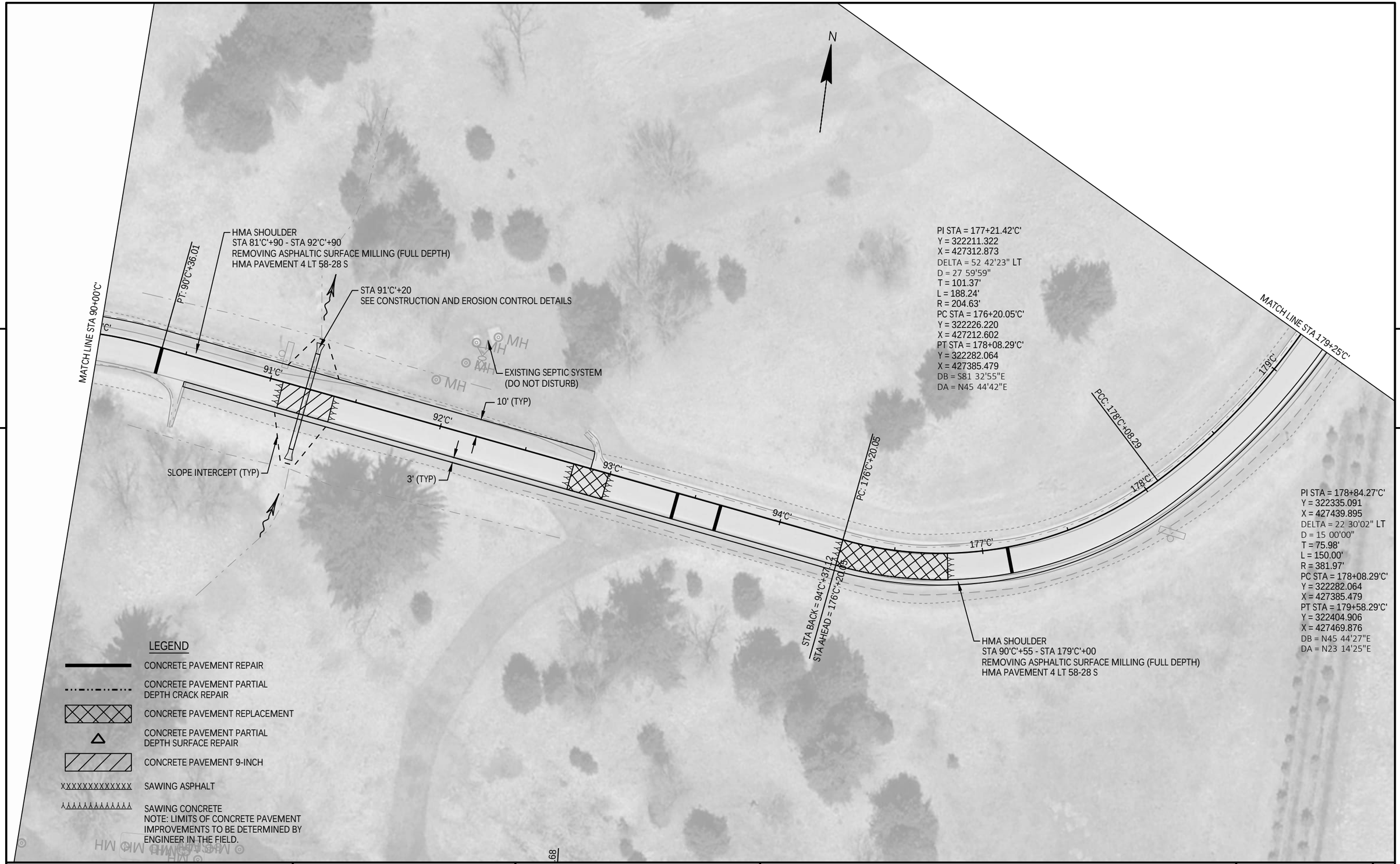


PROJECT NO: 1166-04-85	HWY: IH 39	COUNTY: MARQUETTE	PLAN - SB REST AREA 81	SHEET 158	E

FILE NAME : G:\00\00093\00093777\CADD\SHEETSPLAN\050202-PN.DWG
LAYOUT NAME - 050216-pn

PLOT DATE : 6/28/2025 7:31 AM PLOT BY : SHAWN DOLENS PLOT NAME : PLOT SCALE : 1 IN:50 FT

WISDOT/CADDS SHEET 44



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5

PROJECT NO: 1166-04-85	HWY: IH 39	COUNTY: MARQUETTE	PLAN - SB REST AREA 81	SHEET 159	E

FILE NAME : G:\00\00093\00093777\CADD\SHEETSPLAN\050202-PN.DWG
LAYOUT NAME - 050217-pn

PLOT DATE : 6/28/2025 7:31 AM PLOT BY : SHAWN DOLENS PLOT NAME : PLOT SCALE : 1 IN:50 FT

PI STA = 180+33.52'C'
Y = 322474.031
X = 427499.560
DELTA = 11 14'54" LT
D = 7 30'00"
T = 75.23'
L = 149.98'
R = 763.94'
PC STA = 179+58.29'C'
Y = 322404.906
X = 427469.876
PT STA = 181+08.27'C'
Y = 322547.619
X = 427515.190
DB = N23 14'23"E
DA = N11 59'29"E

PI STA = 182+08.43'C'
Y = 322645.594
X = 427535.998
DELTA = 7 59'59" LT
D = 4 00'00"
T = 100.16'
L = 199.99'
R = 1432.39'
PC STA = 181+08.27'C'
Y = 322547.619
X = 427515.190
PT STA = 183+08.26'C'
Y = 322745.511
X = 427542.969
DB = N11 59'26"E
DA = N03 59'27"E

N

MATCH LINE STA 179+25'C'

PCC: 179'C'+58.29

PCC: 181'C'+08.27

PT: 183'C'+08.26

HMA SHOULDER
STA 180'C'+10 - STA 186'C'+75
REMOVING ASPHALTIC SURFACE MILLING (FULL DEPTH)
HMA PAVEMENT 4 LT 58-28 S

CAT 0020 - STA 184'C'+00

N03 59'26"E
744.74'

MATCH LINE STA 186+75'C

180'C'

181'C'

182'C'

183'C'

184'C

185'C

186'C'

5' (TYP)

3' (TYP)

CONCRETE

ASPHALT

HMA SHOULDER
STA 179'C'+00 - STA 185'C'+60
REMOVING ASPHALTIC SURFACE MILLING (FULL DEPTH)
HMA PAVEMENT 4 LT 58-28 S

IH 39 SB

1346'SB'
1347'SB'
1348'SB'
1349'SB'
1350'SB'
1351'SB'
1352'SB'
1353'SB'

LEGEND

- CONCRETE PAVEMENT REPAIR
- CONCRETE PAVEMENT PARTIAL DEPTH CRACK REPAIR
- CONCRETE PAVEMENT REPLACEMENT
- CONCRETE PAVEMENT PARTIAL DEPTH SURFACE REPAIR
- CONCRETE PAVEMENT 9-INCH
- SAWING ASPHALT
- SAWING CONCRETE
  NOTE: LIMITS OF CONCRETE PAVEMENT IMPROVEMENTS TO BE DETERMINED BY ENGINEER IN THE FIELD.

PROJECT NO: 1166-04-85	HWY: IH 39	COUNTY: MARQUETTE	PLAN - SB REST AREA 81	SHEET 160	E

FILE NAME : G:\00\00093\00093777\CADD\SHEETSPLAN\050202-PN.DWG
LAYOUT NAME - 050218-pn

PLOT DATE : 6/28/2025 7:31 AM PLOT BY : SHAWN DOLENS PLOT NAME : PLOT SCALE : 1 IN:50 FT

PROJECT NO: 1166-04-85	HWY: IH 39	COUNTY: MARQUETTE	PLAN - SB REST AREA 81	SHEET 161	E

FILE NAME : G:\00\00093\00093777\CADD\SHEETSPLAN\050202-PN.DWG
LAYOUT NAME - 050219-pn

PLOT DATE : 6/28/2025 7:32 AM PLOT BY : SHAWN DOLENS PLOT NAME : PLOT SCALE : 1 IN:50 FT

WISDOT/CADDS SHEET 44

Standard Detail Drawing List

08A05-22C	INLET COVERS TYPE F, HM, HM-S, S, T, HM-GJ & HM-GJ-S
08A05-22D	INLET COVERS TYPE V, V-B, & VV-B
08C07-03	INLETS 2X2-FT, 2X2.5-FT, 2X3-FT, 2.5X3-FT & 2X3.5-FT
08D01-24A	CONCRETE CURB & GUTTER
08D01-24B	CONCRETE CURB, TIES AND CURB AND GUTTER APPLICATIONS
08D03-09A	CONCRETE SURFACE DRAINS DROP INLET TYPE AT STRUCTURES
08D03-09B	CONCRETE SURFACE DRAINS DROP INLET TYPE AT STRUCTURES
08D04-07	CONCRETE SURFACE DRAINS & ASPHALTIC FLUMES
08D05-22B	CURB RAMPS TYPES 2 AND 3
08D05-22E	CURB RAMPS TYPES 5, 6, 7A, 7B & 8
08D05-22G	CURB RAMPS RECTANGULAR AND RADIAL DETECTABLE WARNING PLATES
08D17-06	MANHOLES, MANHOLE & INLET COVERS
08E08-03	TYPICAL INSTALLATIONS OF EROSION BALES / TEMPORARY DITCH CHECKS
08E09-06	SILT FENCE
08E10-02	INLET PROTECTION TYPE A, B, C AND D
08E15-01	CULVERT PIPE CHECK
08F01-11	APRON ENDWALLS FOR CULVERT PIPE
08F04-08	JOINT TIES FOR CONCRETE PIPE AND CONCRETE COLLAR DETAIL
09B02-10	CONDUIT
09B16-03	PULL BOX NON-CONDUCTIVE
09C02-09	CONCRETE BASES, TYPES 1, 2, 5, & 6
09C14-03	CONCRETE CONTROL CABINET BASE, TYPE L
09D04-03	LIGHTING CONTROL CABINET 120/240 VOLT
09E01-16D	POLE MOUNTINGS FOR LIGHTING UNITS, TYPE 5 (30 FEET)
09E03-06	NON-FREEWAY LIGHTING UNIT POLE WIRING
09E04-06	WALKWAY LIGHTING UNIT AND CONCRETE BASE, TYPE 11
11A01-06	MAINTENANCE CROSSOVER FOR FREEWAYS
11B02-02	CONCRETE MEDIAN NOSE
13A05-06A	SHOULDER RUMBLE STRIPS, DIVIDED ROADWAY
13A05-06B	SHOULDER RUMBLE STRIPS, DIVIDED ROADWAY
13B02-09A	CONCRETE PAVEMENT APPROACH SLAB
13C01-19	CONCRETE PAVEMENT LONGITUDINAL JOINTS AND TIES
13C09-18A	CONCRETE PAVEMENT REPAIR AND REPLACEMENT
13C09-18B	CONCRETE PAVEMENT REPAIR AND REPLACEMENT
13C09-18C	CONCRETE PAVEMENT REPAIR AND REPLACEMENT
13C09-18D	CONCRETE PAVEMENT REPAIR AND REPLACEMENT
13C19-03	HMA LONGITUDINAL JOINTS
14B26-05A	STEEL THRIE BEAM BULLNOSE TERMINAL
14B26-05B	STEEL THRIE BEAM BULLNOSE TERMINAL
14B26-05C	STEEL THRIE BEAM BULLNOSE TERMINAL
14B26-05D	STEEL THRIE BEAM BULLNOSE TERMINAL
14B26-05E	STEEL THRIE BEAM BULLNOSE TERMINAL
14B26-05F	STEEL THRIE BEAM BULLNOSE TERMINAL
14B26-05G	STEEL THRIE BEAM BULLNOSE TERMINAL
14B26-05H	STEEL THRIE BEAM BULLNOSE TERMINAL
14B42-07A	MIDWEST GUARDRAIL SYSTEM (MGS) GUARDRAIL
14B42-07B	MIDWEST GUARDRAIL SYSTEM (MGS) GUARDRAIL
14B42-07C	MIDWEST GUARDRAIL SYSTEM (MGS) GUARDRAIL
14B42-07D	MIDWEST GUARDRAIL SYSTEM (MGS) GUARDRAIL
14B44-04A	MIDWEST GUARDRAIL SYSTEM ENERGY ABSORBING TERMINAL (MGS)
14B44-04B	MIDWEST GUARDRAIL SYSTEM ENERGY ABSORBING TERMINAL (MGS)
14B44-04C	MIDWEST GUARDRAIL SYSTEM ENERGY ABSORBING TERMINAL (MGS)
14B45-05A	MIDWEST GUARDRAIL SYSTEM THRIE BEAM TRANSITION (MGS)
14B45-05B	MIDWEST GUARDRAIL SYSTEM THRIE BEAM TRANSITION (MGS)
14B45-05C	MIDWEST GUARDRAIL SYSTEM THRIE BEAM TRANSITION (MGS)
14B45-05D	MIDWEST GUARDRAIL SYSTEM THRIE BEAM TRANSITION (MGS)
14B45-05E	MIDWEST GUARDRAIL SYSTEM THRIE BEAM TRANSITION (MGS)
14B45-05F	MIDWEST GUARDRAIL SYSTEM THRIE BEAM TRANSITION (MGS)
14B45-05G	MIDWEST GUARDRAIL SYSTEM THRIE BEAM TRANSITION (MGS)
14B45-05H	MIDWEST GUARDRAIL SYSTEM THRIE BEAM TRANSITION (MGS)
14B45-05I	MIDWEST GUARDRAIL SYSTEM THRIE BEAM TRANSITION (MGS)
14B45-05J	MIDWEST GUARDRAIL SYSTEM THRIE BEAM TRANSITION (MGS)
14B45-05K	MIDWEST GUARDRAIL SYSTEM THRIE BEAM TRANSITION (MGS)
14B45-05L	MIDWEST GUARDRAIL SYSTEM THRIE BEAM TRANSITION (MGS)
14B47-06A	MIDWEST GUARDRAIL SYSTEM (MGS) TYPE 2 TERMINAL
14B47-06B	MIDWEST GUARDRAIL SYSTEM (MGS) TYPE 2 TERMINAL

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Standard Detail Drawing List

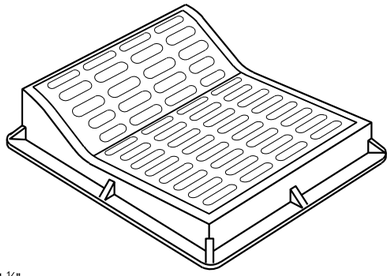
14B47-06C	MIDWEST GUARDRAIL SYSTEM (MGS) TYPE 2 TERMINAL
14B47-06D	MIDWEST GUARDRAIL SYSTEM (MGS) TYPE 2 TERMINAL
14B47-06E	MIDWEST GUARDRAIL SYSTEM (MGS) TYPE 2 TERMINAL
14B47-06F	MIDWEST GUARDRAIL SYSTEM (MGS) TYPE 2 TERMINAL
14B47-06G	MIDWEST GUARDRAIL SYSTEM (MGS) TYPE 2 TERMINAL
15A03-02A	FLEXIBLE MARKER POST FOR CULVERT END
15A03-02B	FLEXIBLE MARKER POST FOR CULVERT END
15A04-08C	DELINEATOR POST WITH REFLECTIVE SHEETING
15A04-08E	DELINEATOR POST WITH REFLECTIVE SHEETING
15C02-10A	BARRICADES AND SIGNS FOR MAINLINE CLOSURES
15C02-10B	BARRICADES AND SIGNS FOR VARIOUS CLOSURES
15C02-10D	ON RAMP LANE CLOSURE
15C02-10E	OFF RAMP LANE CLOSURE
15C02-10F	ADVANCED WIDTH RESTRICTION SIGNING
15C02-10G	TRAFFIC CONTROL FOR ENTRANCE RAMP CLOSURE
15C02-10H	MODIFIED ROUTE ASSEMBLY FOR DETOUR SIGNING
15C04-05	TRAFFIC CONTROL, ADVANCE WARNING SIGNS 45 M.P.H. OR GREATER TWO-WAY UNDIVIDED ROAD OPEN TO TRAFFIC
15C05-05	TRAFFIC CONTROL, ADVANCE WARNING SIGNS 40 M.P.H. OR LESS TWO-WAY UNDIVIDED ROAD OPEN TO TRAFFIC
15C07-16A	PAVEMENT MARKING SYMBOLS
15C07-16C	PAVEMENT MARKING ARROWS
15C08-24A	PERMANENT LONGITUDINAL PAVEMENT MARKINGS
15C08-24B	TEMPORARY LONGITUDINAL PAVEMENT MARKING
15C08-24C	PAVEMENT MARKING (TURN LANES)
15C08-24D	PAVEMENT MARKING (TURN LANES)
15C11-10A	CHANNELIZING DEVICES FLEXIBLE TUBULAR MARKER POST
15C11-10B	CHANNELIZING DEVICES DRUMS, CONES, BARRICADES AND VERTICAL PANELS
15C12-09A	TRAFFIC CONTROL FOR LANE CLOSURE WITH FLAGGING OPERATION
15C14-05	AERIAL ENFORCEMENT BARS PAVEMENT MARKING DETAILS
15C18-09A	MEDIAN ISLAND PAVEMENT MARKINGS
15C18-09B	PAVEMENT MARKINGS, MEDIAN ISLAND NOSE
15C18-09C	MEDIAN PAVEMENT MARKINGS DOUBLE ARROW WARNING SIGN PLACEMENT
15C19-11A	MOVING PAVEMENT MARKING OPERATION TWO-LANE TWO-WAY ROADWAY
15C19-11C	MOVING PAVEMENT MARKING OPERATION MULTI-LANE DIVIDED ROADWAY
15C31-08A	PAVEMENT MARKING EXIT RAMP AND PARALLEL EXIT RAMP
15C31-08C	PAVEMENT MARKING ENTRANCE RAMP AND PARALLEL ENTRANCE RAMP
15C33-05	STOP LINE AND CROSSWALK PAVEMENT MARKING
15C36-01	PARKING STALL MARKING
15D12-16A	TRAFFIC CONTROL, LANE CLOSURE
15D12-16E	TRAFFIC CONTROL, LANE CLOSURE, TRAFFIC QUEUE WARNING SYSTEM
15D12-16G	TRAFFIC CONTROL, LANE CLOSURE , DIGITAL SPEED REDUCTION SYSTEM
15D15-08A	TRAFFIC CONTROL, PARALLEL ENTRANCE RAMP WITHIN LANE CLOSURE
15D15-08B	TRAFFIC CONTROL, ENTRANCE RAMP WITHIN LANE CLOSURE
15D15-08E	TRAFFIC CONTROL, PARALLEL EXIT RAMP WITHIN LANE CLOSURE
15D16-07	TRAFFIC CONTROL, EXIT RAMP CLOSURE
15D21-07A	TRAFFIC CONTROL, INTERSECTION WITHIN SINGLE LANE CLOSURE
15D21-07B	TRAFFIC CONTROL, INTERSECTION WITHIN SINGLE LANE CLOSURE
15D27-05	TRAFFIC CONTROL, SHOULDER CLOSURE ON DIVIDED ROADWAY, SPEEDS GREATER THAN 40 MPH
15D28-05	TRAFFIC CONTROL, WORK ON SHOULDER OR PARKING LANE, UNDIVIDED ROADWAY
15D30-12A	TRAFFIC CONTROL, PEDESTRIAN ACCOMMODATION
15D39-03	TRAFFIC CONTROL, DROP-OFF SIGNING
15D40-07A	TRAFFIC CONTROL, FULL LANE SHIFT NON-FREEWAY/EXPRESSWAY OR MULTILANE DIVIDED 45 MPH AND UNDER
15D40-07B	TRAFFIC CONTROL, FULL LANE SHIFT MULTILANE DIVIDED 50 MPH AND OVER
15D40-07D	TRAFFIC CONTROL, PARTIAL LANE SHIFT MULTILANE DIVIDED 50 MPH AND GREATER
15D43-03	TRAFFIC CONTROL, SHORT DURATION MOBILE OPERATIONS
15D51-02	TRAFFIC CONTROL, MOBILE OPERATIONS ON AN UNDIVIDED ROADWAY

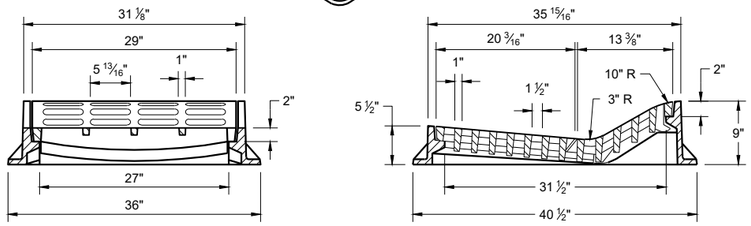
6

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.

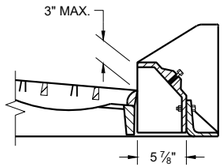
DETAIL DRAWINGS FOR PROPOSED ALTERNATE DESIGNS FOR INLET COVERS SHALL BE SUBMITTED TO THE ENGINEER FOR APPROVAL PROVIDING THAT SUCH ALTERNATE DESIGNS MAKE PROVISION FOR EQUIVALENT CAPACITY AND STRENGTH.





TYPE "F"

USE WITH TYPES "A" AND "D" CONCRETE CURB AND GUTTER, 36"

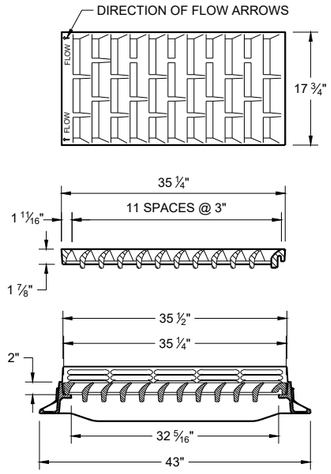


ALTERNATIVE CURB BOX FOR TYPE "HM" COVER

USE WITH TYPES "G" AND "J" CONCRETE CURB AND GUTTER, 30 INCH
NOTED AS TYP "HM-GJ" ON DRAINAGE TABLE

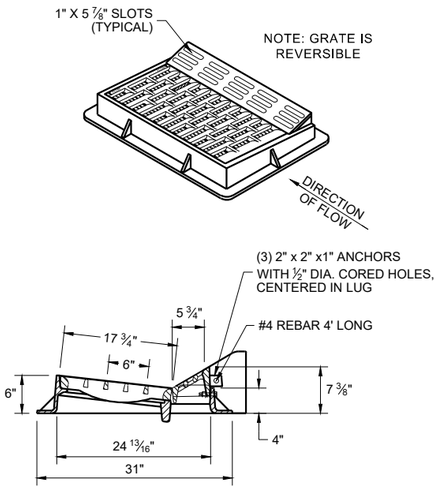
NOTE:
SPECIAL GRATE FOR THE TYPE "H" COVER MAY ALSO BE USED FOR THE TYPE "HM-GJ" COVER.

NOTED AS TYPE HM-GJ-S ON THE DRAINAGE TABLE.



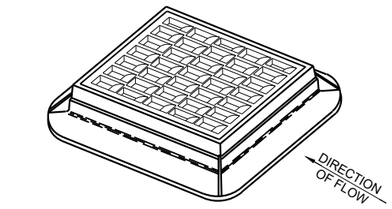
TYPE "HM"

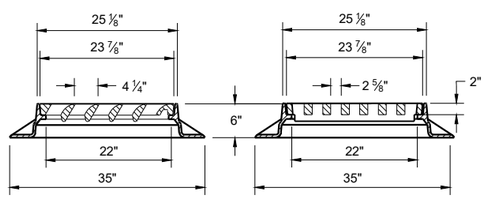
USE WITH TYPES "A" AND "D" CONCRETE CURB AND GUTTER, 36"



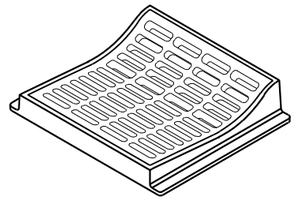
NOTE:
SPECIAL GRATE FOR THE TYPE "H" COVER MAY ALSO BE USED FOR THE TYPE "HM-GJ" COVER.

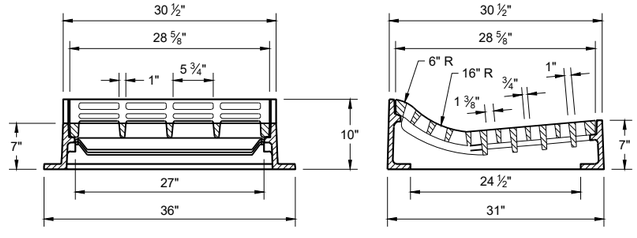
NOTED AS TYPE HM-GJ-S ON THE DRAINAGE TABLE.





TYPE "S"





TYPE "T"

USE WITH TYPES "R" AND "T" CONCRETE CURB AND GUTTER, 36"

INLET COVERS
TYPES F, HM, HM-S, S, T, HM-GJ AND HM-GJ-S

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
February 2025 — DATE
/S/ Rodney Taylor — ROADWAY STANDARDS DEVELOPMENT UNIT SUPERVISOR

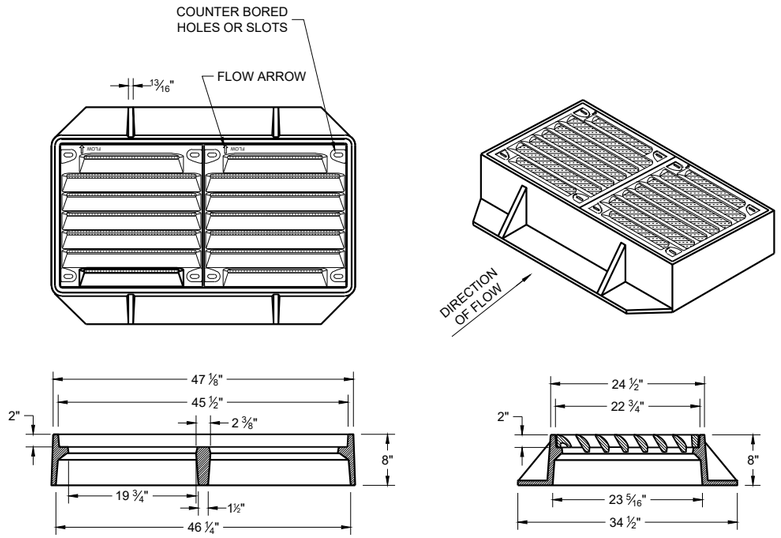
FHWA

6
SDD 08A05-22c

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.

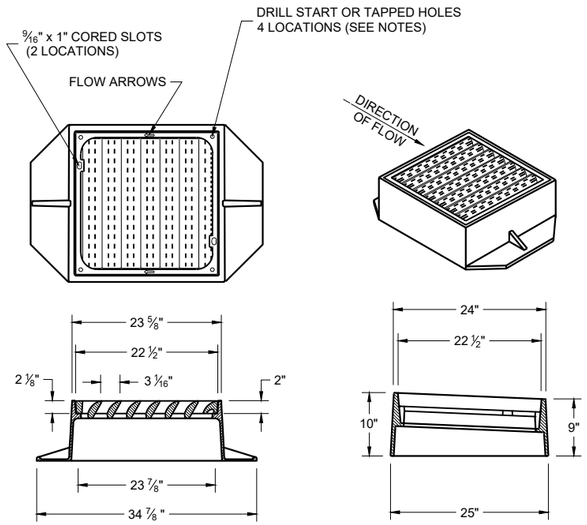
DETAIL DRAWINGS FOR PROPOSED ALTERNATE DESIGNS FOR INLET COVERS SHALL BE SUBMITTED TO THE ENGINEER FOR APPROVAL PROVIDING THAT SUCH ALTERNATE DESIGNS MAKE PROVISION FOR EQUIVALENT CAPACITY AND STRENGTH.



TYPE "VV-B"

NOTES: ALL HARDWARE TO BE SUPPLIED BY CASTING MANUFACTURER
ALL DRILLING AND TAPPING GRATES AND FRAMES BY CASTING MANUFACTURER

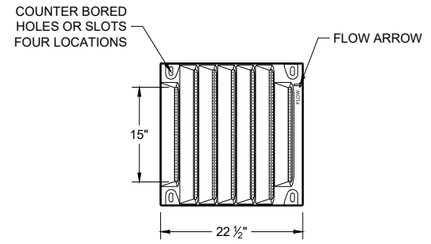
TYPE V
FRAME - CAST GRAY IRON ASTM A48 CLASS 35B
⅜" DIA. X 1/16" DRILL START IN 8 LOCATIONS
GRATE - CAST GRAY IRON ASTM A-48, CLASS 35B



TYPE "V"

NOTES: ALL HARDWARE TO BE SUPPLIED BY CASTING MANUFACTURER ALL DRILLING AND TAPPING GRATES AND FRAMES BY CASTING MANUFACTURER

TYPE V
FRAME - CAST GRAY IRON ASTM A48 CLASS 40A
⅜" DIA. X 1/16" DRILL START IN 4 LOCATIONS
GRATE - CAST GRAY IRON ASTM A-48, CLASS 35B



BOLT DOWN GRATE FOR TYPE "V" AND "VV-B" COVER

NOTES: ALL HARDWARE TO BE SUPPLIED BY CASTING MANUFACTURER NOTED AS TYPE "V-B" OR "VV-B" (FOR DOUBLE GRATE) ON DRAINAGE TABLE

TAP ½" -13 HOLES IN FOUR LOCATIONS PER GRATE IN FRAME TO BOLT GRATE(S).
FRAME - CAST GRAY IRON ASTM A48 CLASS 40A

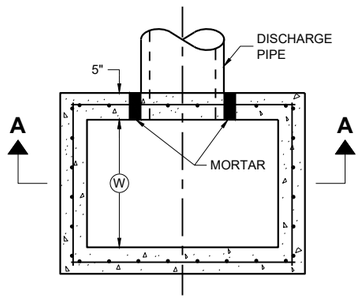
GRATE - CAST DUCTILE IRON ASTM A536, 55+KSI YIELD
BOLTS - ½" -13 STAINLESS STEEL BOLTS WITH WASHERS
TORQUE BOLTS TO MANUFACTURER SPECIFICATION DO NOT OVERTIGHTEN.

INLET COVERS
TYPES V, V-B, AND VV-B

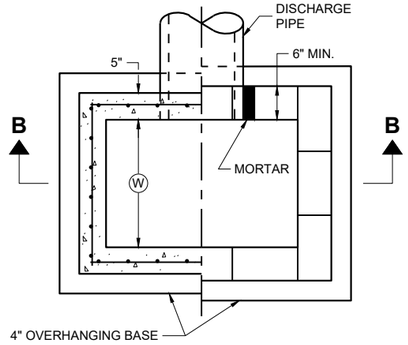
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
February 2025 — DATE
/S/ Rodney Taylor — ROADWAY STANDARDS DEVELOPMENT UNIT SUPERVISOR
FHWA

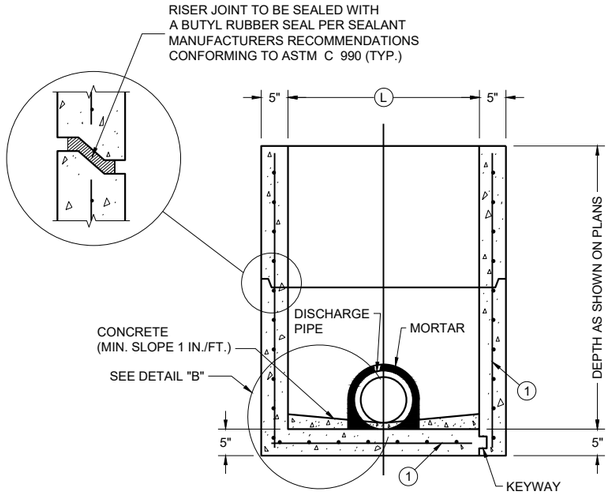
6
SDD 08A05-22d



PLAN VIEW



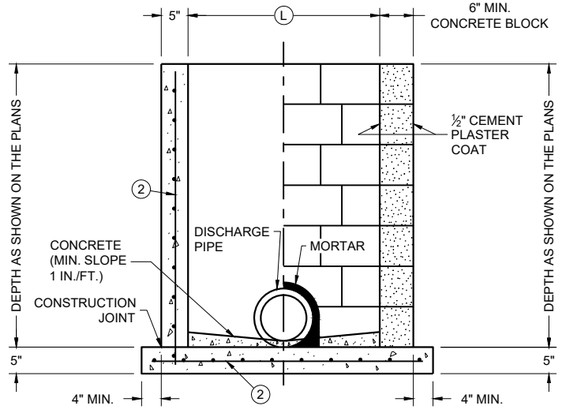
PLAN VIEW



PRECAST REINFORCED CONCRETE WITH MONOLITHIC BASE

PRECAST REINFORCED CONCRETE WITH INTEGRAL BASE

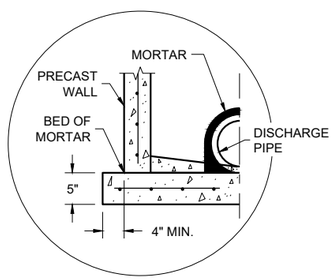
SECTION A - A



CAST IN PLACE REINFORCED CONCRETE

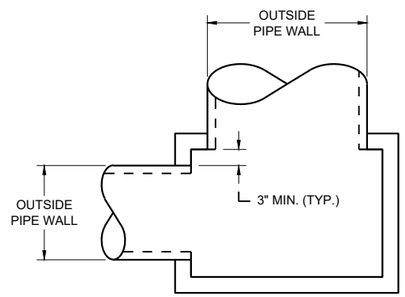
CONCRETE BLOCK WITH CAST IN PLACE OR PRECAST REINFORCED CONCRETE BASE (1)

SECTION B - B



SEPARATE PRECAST REINFORCED CONCRETE BASE OPTION

DETAIL "B"



DETAIL "A"

GENERAL NOTES

DETAILS OF CONSTRUCTION, MATERIALS AND WORKMANSHIP N0T SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS AND THE APPLICABLE SPECIAL PROVISIONS.

UNLESS OTHERWISE AUTHORIZED IN WRITING BY THE ENGINEER, THE CONTRACTOR SHALL NOT ORDER AND DELIVER PRECAST INLET UNITS REQUIRED FOR THE PROJECT UNTIL A LIST OF SIZES IS FURNISHED BY THE ENGINEER.

DETAILED DRAWINGS FOR PROPOSED ALTERNATE DESIGNS FOR UNDERGROUND DRAINAGE STRUCTURES SHALL BE SUBMITTED TO THE ENGINEER FOR APPROVAL PROVIDING THAT SUCH ALTERNATE DESIGNS MAKE PROVISION FOR EQUIVALENT CAPACITY AND STRENGTH.

ALL PRECAST INLET UNITS SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF ASTM C 913.

ALL DRAINAGE STRUCTURES ARE DESIGNATED ON THE PLANS AS "MANHOLES 3X3-L", "CATCH BASINS 4-B", "INLETS 2X3-H", ETC. THE FIRST NUMBERS DESIGNATES THE SIZE OF THE STRUCTURE, AND THE FOLLOWING LETTER DESIGNATES THE TYPE OF COVER TO BE USED TO COMPRISE THE COMPLETE UNIT.

BASES SHALL BE PLACED ON A BED OF MATERIAL AT LEAST 6 INCHES IN DEPTH, WHICH MEETS THE REQUIREMENTS OF FOUNDATION BACKFILL. THIS BEDDING SHALL BE COMPACTED AND PROVIDE UNIFORM SUPPORT FOR THE ENTIRE AREA OF THE BASE.

ALL BAR STEEL REINFORCEMENT SHALL BE EMBEDDED 2 INCHES CLEAR UNLESS OTHERWISE SHOWN OR NOTED.

PRECAST REINFORCED RISERS SHALL HAVE A TONGUE AND GROOVE JOINT WITH TONGUE UP OR DOWN.

4" OVERHANGING BASES ARE REQUIRED FOR CAST-IN-PLACE REINFORCED CONCRETE AND CONCRETE BLOCK INSTALLATIONS. 4" OVERHANG IS REQUIRED WHEN SEPARATE PRECAST BASE IS PROVIDED. OVERHANG IS NOT REQUIRED ON PRECAST STRUCTURES WITH AN INTEGRAL OR MONOLITHIC BASE.

MAXIMUM INSIDE PIPE DIAMETER DETERMINED BY 3" 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 AND REINFORCED CONCRETE BASES 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.

CATCH BASIN COVER MATRIX

INLET SIZE	WIDTH (W) (FT.)	LENGTH (L) (FT.)	INLET COVER TYPE									
			ALL A'S	ALL B'S	BW	F	ALL H'S	S	T	V	WM	V V-B
2 X 2-FT	2	2	X	X				X				
2 X 2.5-FT	2	2.5			X			X	X	X	X	
2 X 3-FT	2	3					X					
2.5 X 3-FT	2.5	3				X						
2 X 3.5-FT	2	3.5										X

PIPE MATRIX

CATCH BASIN SIZE	MAXIMUM INSIDE PIPE DIAMETER FOR TWO PIPES	
	WIDTH (IN)	LENGTH (IN)
2 X 2-FT	12	12
2 X 2.5-FT	12	18
2 X 3-FT	12	24
2.5 X 3-FT	18	24
2 X 3.5-FT	12	30

INLETS 2 X 2-FT, 2 X 2.5-FT, 2 X 3-FT, 2.5 X 3-FT AND 2X3.5-FT

INLETS 2 X 2-FT, 2 X 2.5-FT, 2 X 3-FT, 2.5 X 3-FT AND 2 X 3.5-FT

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
December 2023
DATE

/S/ Rodney Taylor
ROADWAY STANDARDS DEVELOPMENT UNIT SUPERVISOR

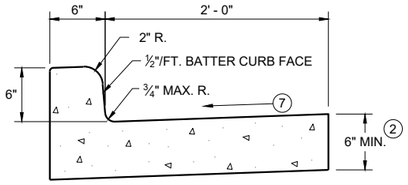
FHWA

6

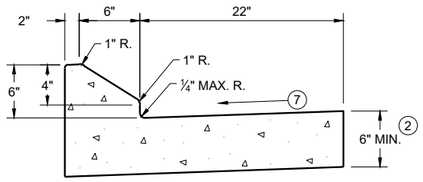
SDD 08C07-03

6

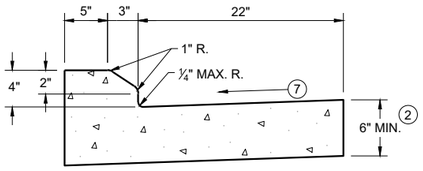
SDD 08C07-03



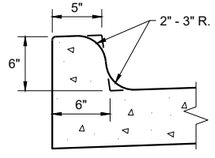
TYPES A (1) & D



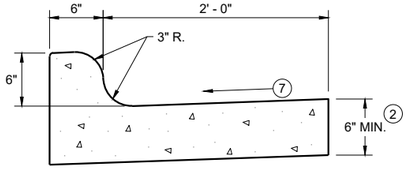
6" SLOPED CURB TYPES G (1) & J



4" SLOPED CURB TYPES G (1) & J

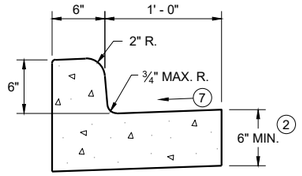


TYPES K (1) & L
(OPTIONAL CURB SHAPE)



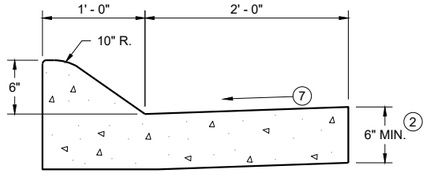
TYPES K (1) & L

CONCRETE CURB AND GUTTER 30"

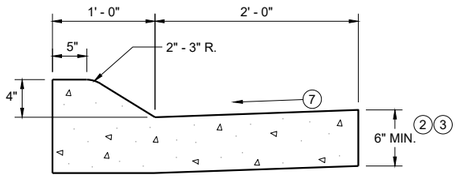


TYPES A (1) & D

CONCRETE CURB AND GUTTER 18"

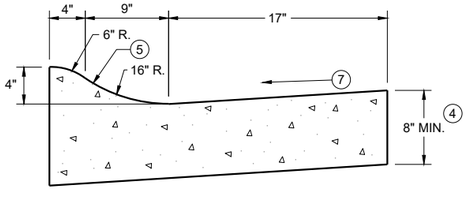


6" SLOPED CURB TYPES A (1) & D



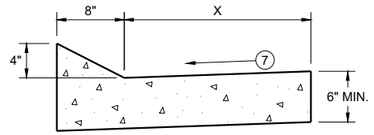
4" SLOPED CURB TYPES A (1) & D

CONCRETE CURB AND GUTTER 36"



4" SLOPED CURB TYPES R (1) & T
CONCRETE CURB AND GUTTER 30"

TBT & TBTT	X
30"	22"
36"	28"

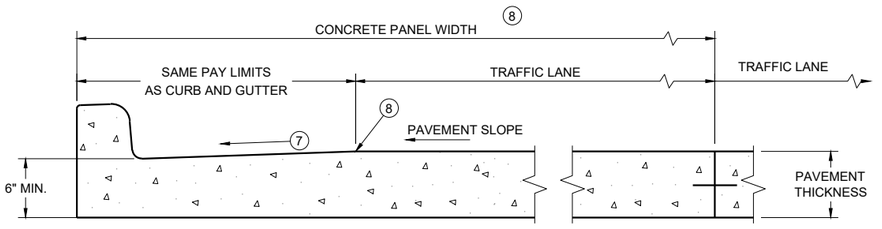


TYPES TBT & TBTT (1)

CONCRETE CURB AND GUTTER

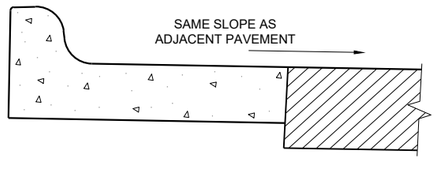
PAVEMENT THICKNESS AND MAXIMUM CONCRETE PANEL WIDTH TABLE

PAVEMENT THICKNESS	MAXIMUM PANEL WIDTH
LESS THAN 10"	12'
10" & ABOVE	15'



PARTIAL SECTION OF PAVEMENT WITH INTEGRAL CURB AND GUTTER *

* BIKE LANE IS NOT SHOWN



REVERSE SLOPE GUTTER (6)
(TYPICAL FOR ALL CURB & GUTTER TYPES)

GENERAL NOTES

DETAILS OF CONSTRUCTION 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 AND GUTTER SHALL CONFORM TO THE DETAILS SHOWN FOR CONCRETE CURB AND GUTTER INCLUDING THE TRANSVERSE GUTTER SLOPE.

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 GUTTERS TYPES A, G, K, R, AND TBTT.

(2) THE BOTTOM OF CURB AND GUTTER MAY BE CONSTRUCTED EITHER LEVEL OR PARALLEL TO THE SLOPE OF THE SUBGRADE OR BASE AGGREGATE PROVIDED A 6" MINIMUM GUTTER THICKNESS IS MAINTAINED.

(3) USE 8" MINIMUM GUTTER THICKNESS WHEN USED WITH AN ADJACENT CONCRETE TRUCK APRON PLACED BEHIND BACK OF CURB.

(4) THE BOTTOM OF CURB AND GUTTER MAY BE CONSTRUCTED EITHER LEVEL OR PARALLEL TO THE SLOPE OF THE SUBGRADE OR BASE AGGREGATE PROVIDED A 8" MINIMUM GUTTER THICKNESS IS MAINTAINED.

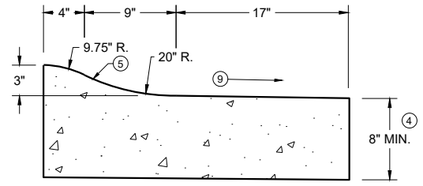
(5) UNLESS OTHERWISE NOTED, FOR STAKING PURPOSES THE FACE OF CURB IS 6" FROM THE BACK OF CURB.

(6) WHEN REVERSE SLOPE GUTTER IS REQUIRED, THE LOCATION(S) WILL BE SHOWN ELSEWHERE IN THE PLAN.

(7) USE 4% GUTTER CROSS SLOPE UNLESS OTHERWISE NOTED IN THE PLANS.

(8) INCLUDE LONGITUDINAL JOINT AND TIE BARS ALONG LANE EDGE WHEN CONCRETE PANEL WIDTH EXCEEDS THE MAXIMUM WIDTH PER TABLE BELOW. LONGITUDINAL JOINT(S) ARE NOT ALLOWED WITHIN TRAFFIC LANES AND BIKE LANES. LONGITUDINAL JOINT MAY BE SAWED.

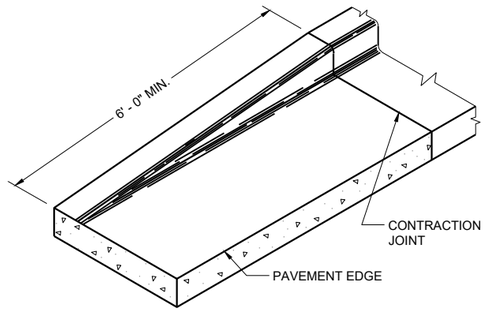
(9) SLOPE TO BE REVERSE SLOPE MATCHING THE SLOPE OF THE PAVEMENT AND THE CIRCULATORY ROADWAY



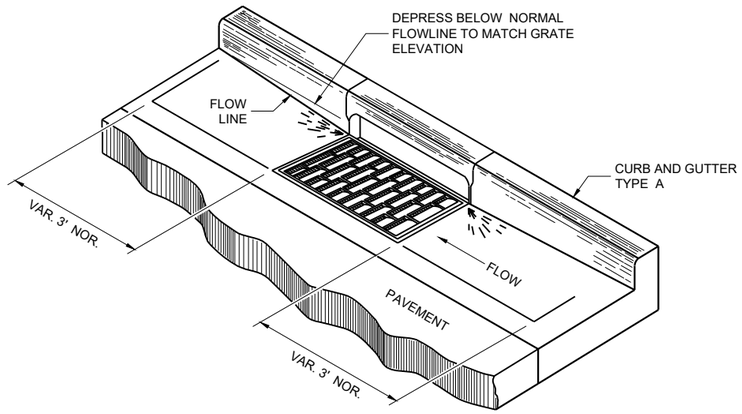
3" SLOPED CURB TYPES R (1) & T

CONCRETE CURB AND GUTTER

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION



END SECTION CURB AND GUTTER



DETAIL OF CURB AND GUTTER AT INLETS

(TYPICAL H INLET COVER SHOWN)

GENERAL NOTES

DETAILS OF CONSTRUCTION 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.

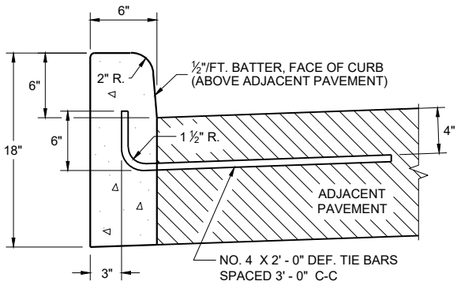
UNLESS OTHERWISE SHOWN ON THE TYPICAL CROSS SECTIONS, THE BASE AGGREGATE AND COMMON EXCAVATION LIMITS ARE 2' - 0" BEHIND THE BACK OF CURBS.

(1) TIE BARS ARE REQUIRED FOR CURB AND GUTTERS TYPES A, G, K, R, AND TBTT.

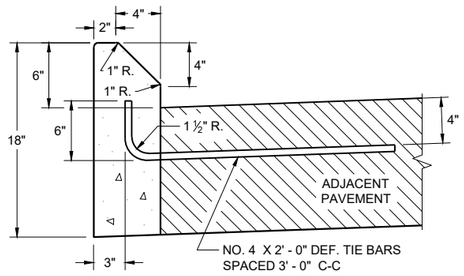
(2) THE BOTTOM OF CURB AND GUTTER MAY BE CONSTRUCTED EITHER LEVEL OR PARALLEL TO THE SLOPE OF THE SUBGRADE OR BASE AGGREGATE PROVIDED A 6" MINIMUM GUTTER THICKNESS IS MAINTAINED.

(10) REFER TO SDD 08D18 AND 08D19 FOR ADDITIONAL DRIVEWAY ENTRANCE CURB DETAILS.

(11) PLACE 1" THICK EXPANSION JOINT MATERIAL BETWEEN VERTICAL FACE CURB TYPES EXTENDING FROM THE TOP OF CURB TO 1 INCH BELOW THE ADJOINING CONCRETE SURFACE. RIGID CONCRETE STRUCTURES INCLUDE RAISED CONCRETE MEDIANS, CONCRETE SAFETY ISLANDS, SPLITTER ISLANDS, OR LOCATIONS IDENTIFIED ON THE PLANS.

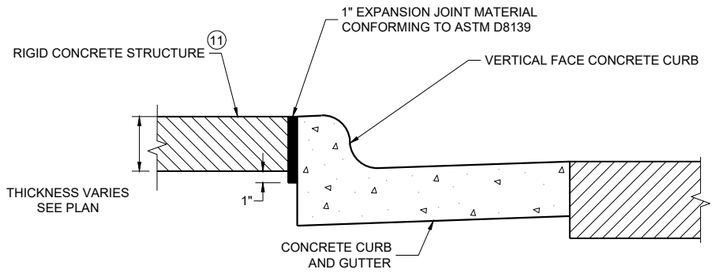


TYPES A (1) & D

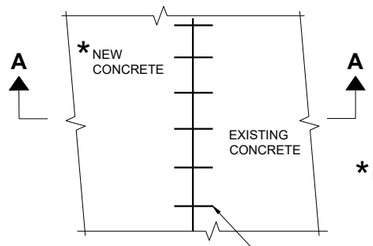


TYPES G (1) & J

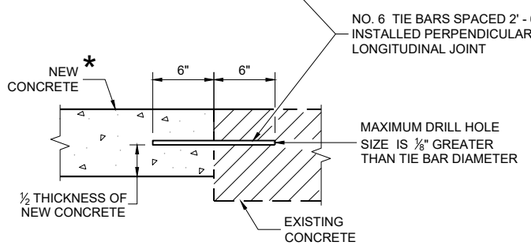
CONCRETE CURB



EXPANSION JOINT DETAIL FOR VERTICAL CURB ABUTTING A RIGID STRUCTURE (11)

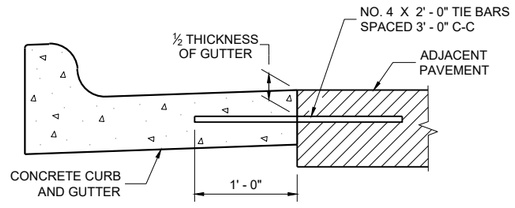


PLAN VIEW

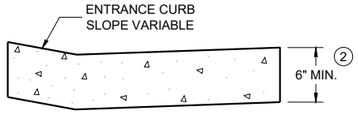


SECTION A - A

TIE BARS DRILLED INTO EXISTING PAVEMENT



TYPICAL TIE BAR LOCATION (1)



DRIVEWAY ENTRANCE CURB (10)

(WHEN DIRECTED BY THE ENGINEER)

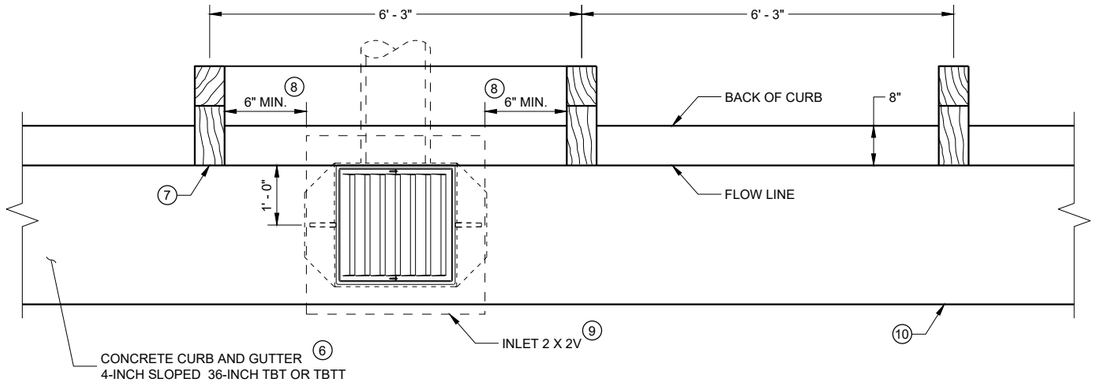
CONCRETE CURB, TIES AND CURB AND GUTTER APPLICATIONS

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
February 2025 — DATE
/S/ Rodnery Taylor — ROADWAY STANDARDS DEVELOPMENT UNIT SUPERVISOR

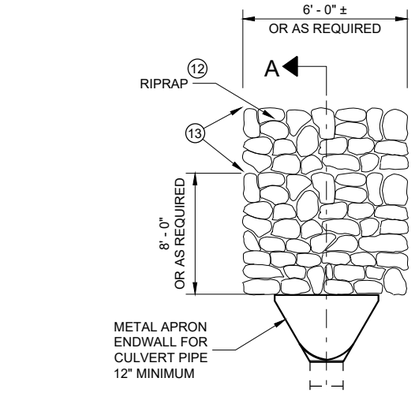
FHWA

6
SDD 08D01-24b



INLET PLAN VIEW

(NOTE: RAIL NOT SHOWN FOR CLARITY)



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.

ALL STEEL REINFORCEMENT SHALL BE EMBEDDED 2 INCHES CLEAR UNLESS OTHERWISE SHOWN OR NOTED.

(1) USE A JOINT SEALANT CONFORMING TO STANDARD SPECIFICATION 415.2.6.

(2) NO. 4 X 2' - 0" TIE BARS SPACED AT 12" C-C TO BE PLACED BY BRIDGE CONTRACTOR OR DRILLED TIE BARS PLACED AS DIRECTED BY THE ENGINEER.

(3) PAVED CONCRETE SHOULDER (SDD 13A03) OR CONCRETE DRAINAGE SLAB.

(4) CONCRETE PAVEMENT APPROACH SLAB (SHOWN) OR STRUCTURE APPROACH SLAB AND CONCRETE PAVEMENT APPROACH SLAB. SEE SDD 13B02.

(5) PAVED CONCRETE SHOULDER (SDD 13A03) OR ASPHALT SHOULDER.

(6) CONCRETE CURB AND GUTTER 4-INCH SLOPED 36-INCH TYPE TBT OR TBTT. USE TYPE TBTT CURB WITH NO. 4 X 2' -0" TIE BARS SPACED AT 3' - 0" C-C ONLY WHEN ADJACENT TO CONCRETE PAVEMENTS.

(7) PLACE DRAINAGE STRUCTURE BEFORE MSG THRIE BEAM TRANSITION POST 1 (SEE SDD 14B45)

(8) CENTER DRAINAGE STRUCTURE BETWEEN POSTS. 6-INCH MINIMUM SEPARATION FROM OUTSIDE WALL OF DRAINAGE STRUCTURE TO POSTS.

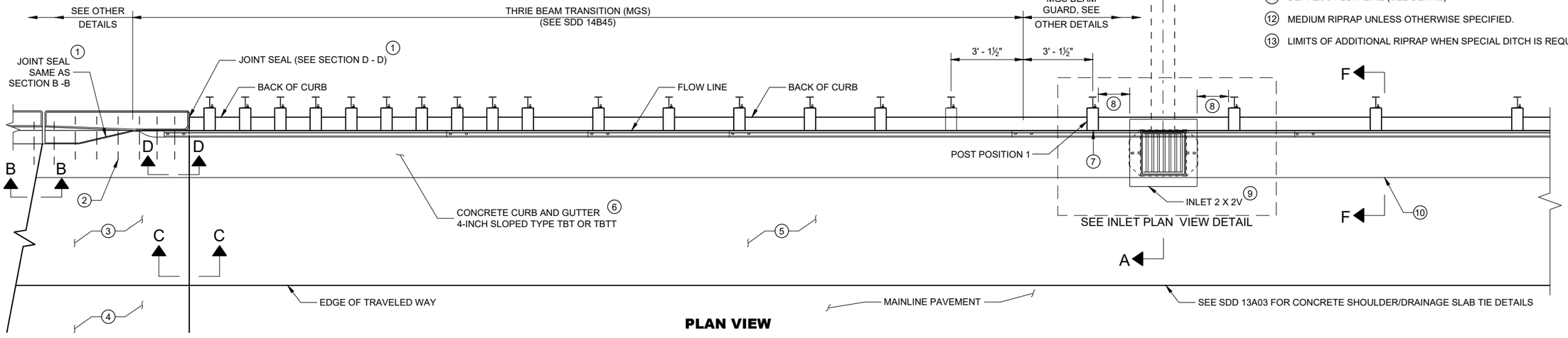
(9) SEE SDD 08A05 AND 08C07 FOR DETAILS. SEE ROADWAY PLANS FOR LOCATION.

(10) START CURB AND GUTTER TRANSITION OR END SECTION.

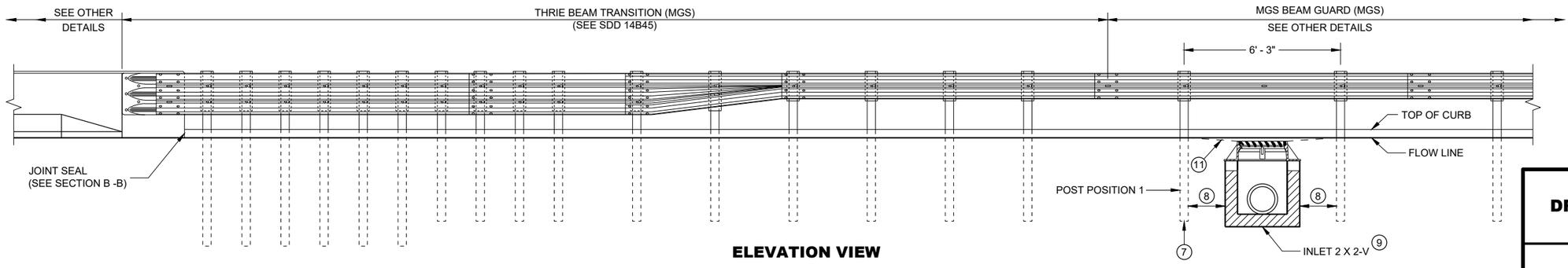
(11) DEPRESS FLOW LINE (SEE DETAIL)

(12) MEDIUM RIPRAP UNLESS OTHERWISE SPECIFIED.

(13) LIMITS OF ADDITIONAL RIPRAP WHEN SPECIAL DITCH IS REQUIRED.



PLAN VIEW



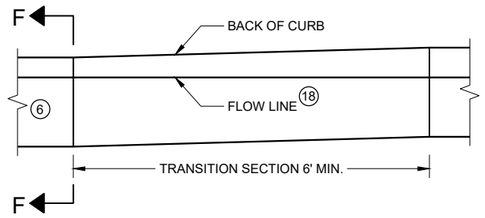
ELEVATION VIEW

CONCRETE SURFACE DRAINS DROP INLET TYPE AT STRUCTURES

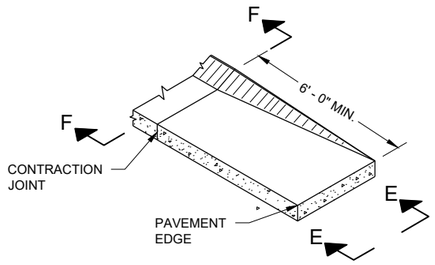
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

6

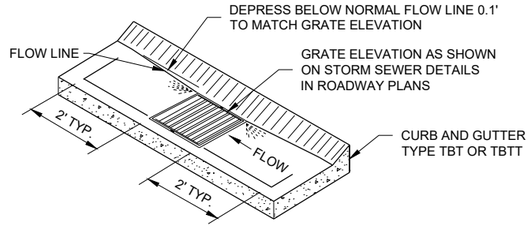
SDD 08D03 - 09a



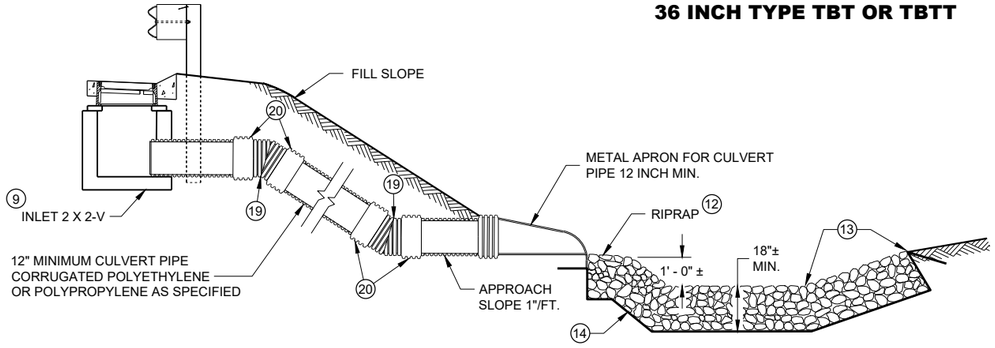
CURB AND GUTTER TRANSITION SECTION CONCRETE CURB AND GUTTER 4-INCH SLOPED 36 INCH TYPE TBT OR TBTT



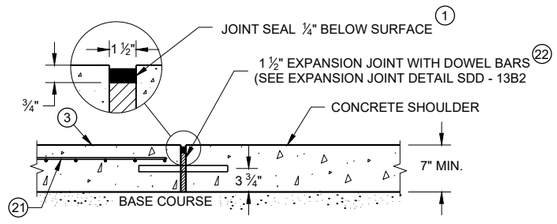
CURB AND GUTTER END SECTION CONCRETE CURB AND GUTTER 4-INCH SLOPED 36 INCH TYPE TBT OR TBTT



CURB AND GUTTER FLOW LINE DEPRESSION AT INLETS CONCRETE CURB AND GUTTER 4-INCH SLOPED 36 INCH TYPE TBT OR TBTT

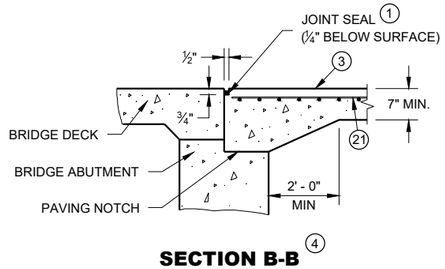


SECTION A - A

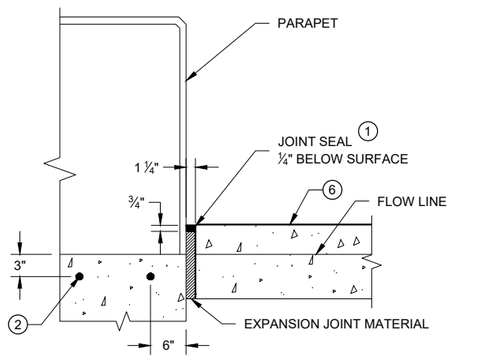


SECTION C - C

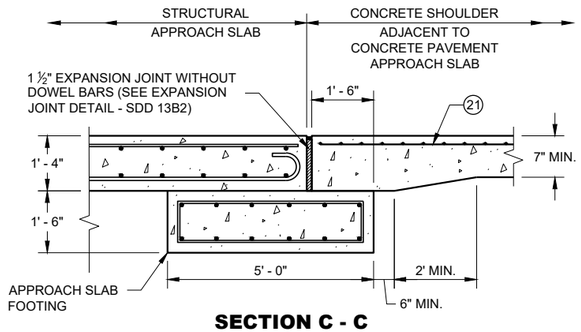
JOINT DETAIL FOR BRIDGE APPROACH WITH CONCRETE SHOULDERS



SECTION B-B 4

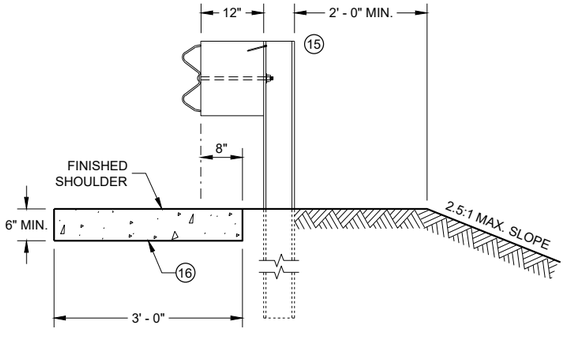


SECTION D - D

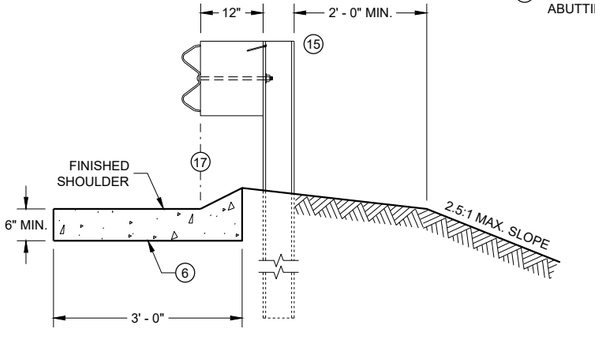


SECTION C - C

JOINT DETAIL FOR BRIDGE WITH STRUCTURAL APPROACH SLAB AND CONCRETE APPROACH SLAB



SECTION E - E



SECTION F - F

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.

ALL STEEL REINFORCEMENT SHALL BE EMBEDDED 2 INCHES CLEAR UNLESS OTHERWISE SHOWN OR NOTED.

(1) USE A JOINT SEALANT CONFORMING TO STANDARD SPECIFICATION 415.2.6.

(2) NO. 4 X 2' - 0" TIE BARS SPACED AT 12" C-C TO BE PLACED BY BRIDGE CONTRACTOR OR DRILLED TIE BARS PLACED AS DIRECTED BY THE ENGINEER.

(3) PAVED CONCRETE SHOULDER (SDD 13A03) OR CONCRETE DRAINAGE SLAB.

(4) CONCRETE PAVEMENT APPROACH SLAB (SHOWN) OR STRUCTURE APPROACH SLAB AND CONCRETE PAVEMENT APPROACH SLAB. SEE SDD 13B02 AND STRUCTURE PLANS.

(5) PAVED CONCRETE SHOULDER (SDD 13A03) OR ASPHALT SHOULDER.

(6) CONCRETE CURB AND GUTTER 4-INCH SLOPED 36-INCH TYPE TBT OR TBTT. USE TYPE TBTT CURB WITH NO. 4 X 2' -0" TIE BARS SPACED AT 3' - 0" C-C ONLY WHEN ADJACENT TO CONCRETE PAVEMENTS.

(7) PLACE DRAINAGE STRUCTURE BEFORE MSG THRIE BEAM TRANSITION POST 1 (SEE SDD 14B45)

(8) CENTER DRAINAGE STRUCTURE BETWEEN POSTS. 6-INCH MINIMUM SEPARATION FROM OUTSIDE WALL OF DRAINAGE STRUCTURE TO POSTS.

(9) SEE SDD 08A05 AND 08C07 FOR DETAILS. SEE ROADWAY PLANS FOR LOCATION.

(10) START CURB AND GUTTER TRANSITION OR END SECTION.

(11) DEPRESS FLOW LINE (SEE DETAIL)

(12) MEDIUM RIPRAP UNLESS OTHERWISE SPECIFIED.

(13) LIMITS OF ADDITIONAL RIPRAP WHEN SPECIAL DITCH IS REQUIRED.

(14) GEOTEXTILE TYPE HR.

(15) MSG THRIE BEAM TRANSITION POST 1. SEE SDD 14B45 FOR ADDITIONAL CONSTRUCTION DETAILS AND ACCEPTABLE MATERIALS.

(16) MAINTAIN WIDTH, THICKNESS AND CROSS SLOPE OF ADJACENT TYPE TBT OR TBTT CURB. SEE NOTE 6 FOR TIE BAR SPACING.

(17) ALIGN FACE OF POST BLOCK WITH FLOW LINE.

(18) MAINTAIN FLOW LINE AT EDGE OF PAVEMENT/FACE OF BEAM GUARD AS APPLICABLE.

(19) MANUFACTURER SUPPLIED BEND.

(20) MANUFACTURER SUPPLIED EXTERNAL MECHANICAL COUPLING OR A MANUFACTURER RECOMMENDED COUPLING WITH A MASTIC IMPREGNATED GEOTEXTILE WRAP AND MECHANICAL FASTENING BANDS.

(21) MINIMUM REINFORCEMENT SHALL BE 6" X 6" - W4.0 X W4.0 OR NO. 3 BARS LONGITUDINAL AND TRANSVERSE SPACING 12" C - C.

(22) DO NOT CONSTRUCT AN EXPANSION JOINT OR INSTALL DOWEL BARS WHEN ABUTTING HMA PAVEMENTS.

CONCRETE SURFACE DRAINS DROP INLET TYPE AT STRUCTURES

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
May 2023 — DATE
/S/ Rodney Taylor — ROADWAY STANDARDS DEVE ENGINEER

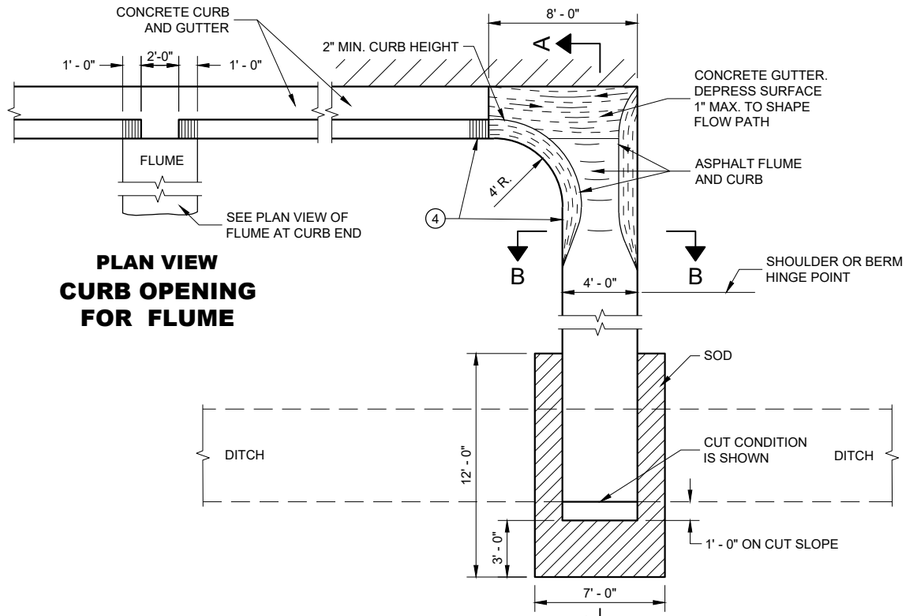
FHWA

6

SDD 08D03 - 09b

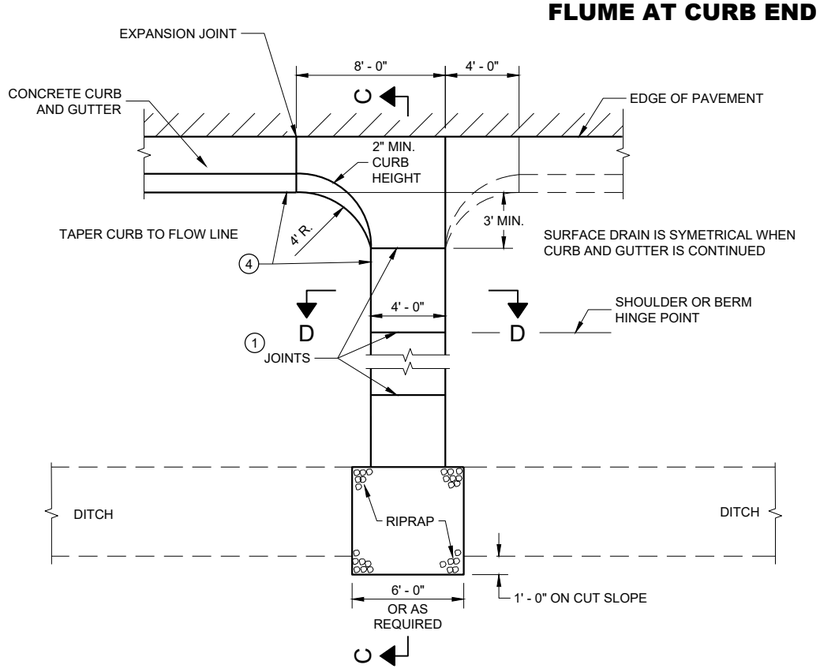
NOTE: TAPER CURB ENDS TO GUTTER IN 1' - 0"

ASPHALTIC FLUME



PLAN VIEW
CURB OPENING FOR FLUME

PLAN VIEW
FLUME AT CURB END



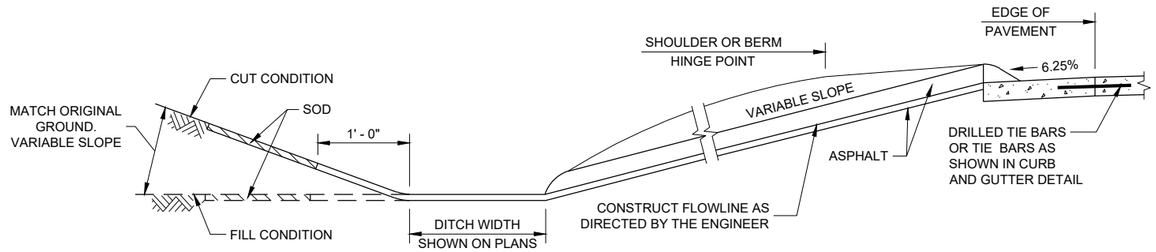
PLAN VIEW
CONCRETE SURFACE DRAIN

GENERAL NOTES

DETAILS OF CONSTRUCTION, MATERIALS AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS AND APPLICABLE SPECIAL PROVISIONS.

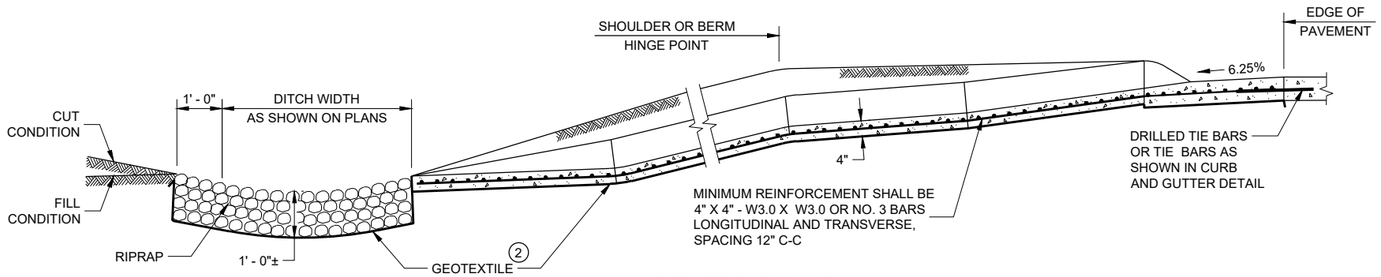
4" X 4" - W3.0 X W3.0 CONCRETE REINFORCEMENT SHALL BE IN ACCORDANCE WITH AASHTO SPECIFICATION M55.

1. JOINTS SHALL BE ⅛" TO ¼" WIDE BY 1½" DEEP AND SPACED AT UNIFORM INTERVALS OF APPROXIMATELY 4 FEET.
2. GEOTEXTILE TYPE "R" SHALL UNDERLAY THE FULL LENGTH AND WIDTH OF THE CONCRETE SURFACE DRAIN AND RIPRAP.
3. CONCRETE SURFACE DRAIN WITHOUT CURB AND GUTTER MAY BE USED ON BACKSLOPES WHEN SPECIFIED.
4. ANGLE OF FLUME IN RELATION TO BACK OF CURB TO BE CONSTRUCTED PER THE PLAN DETAILS OR AS DIRECTED BY THE ENGINEER. ANGLE OF FLUME MAY BE OTHER THAN 90 DEGREES AS SHOWN.

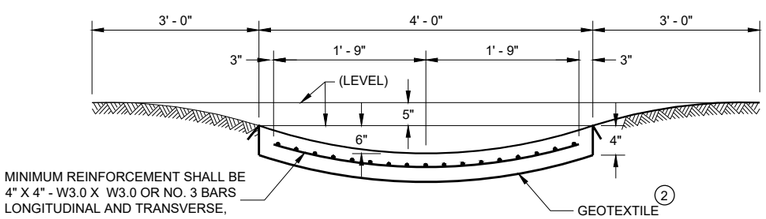


SECTION A - A

SECTION B - B



SECTION C - C



SECTION D - D

CONCRETE SURFACE DRAINS AND ASPHALTIC FLUMES

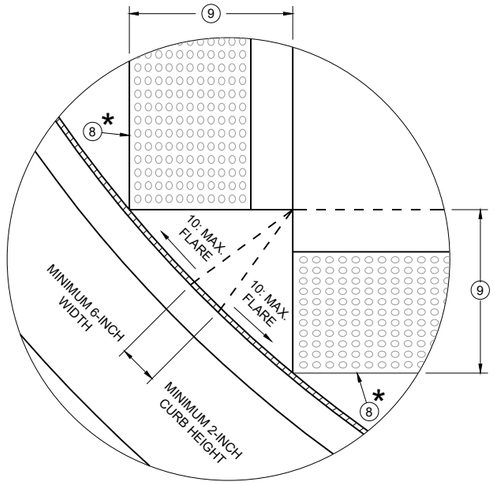
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
May 2023
DATE

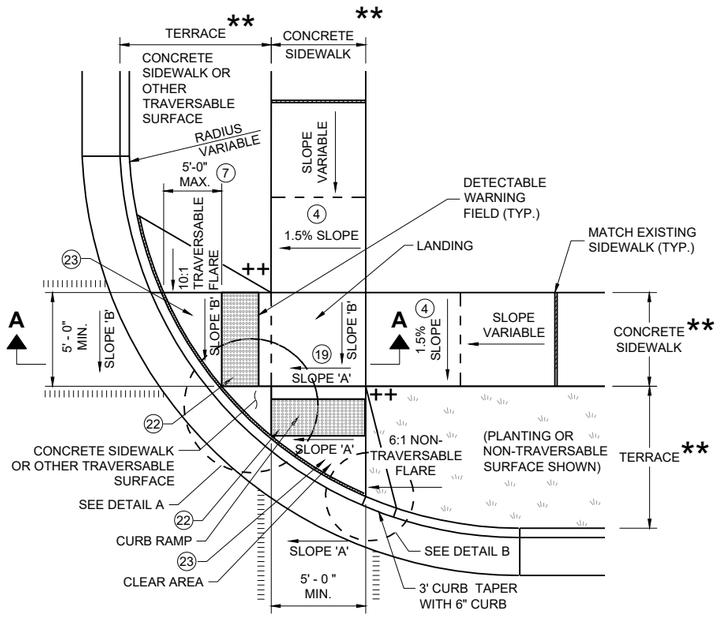
/S/ Rodney Taylor
ROADWAY STANDARDS DEVE ENGINEER

FHWA

6
SDD 08D04 - 07



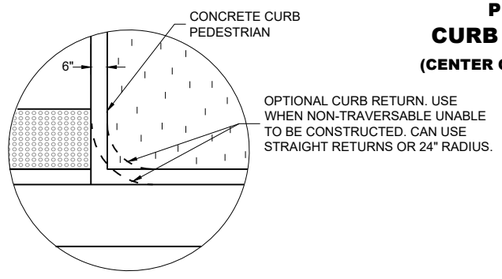
DETAIL A



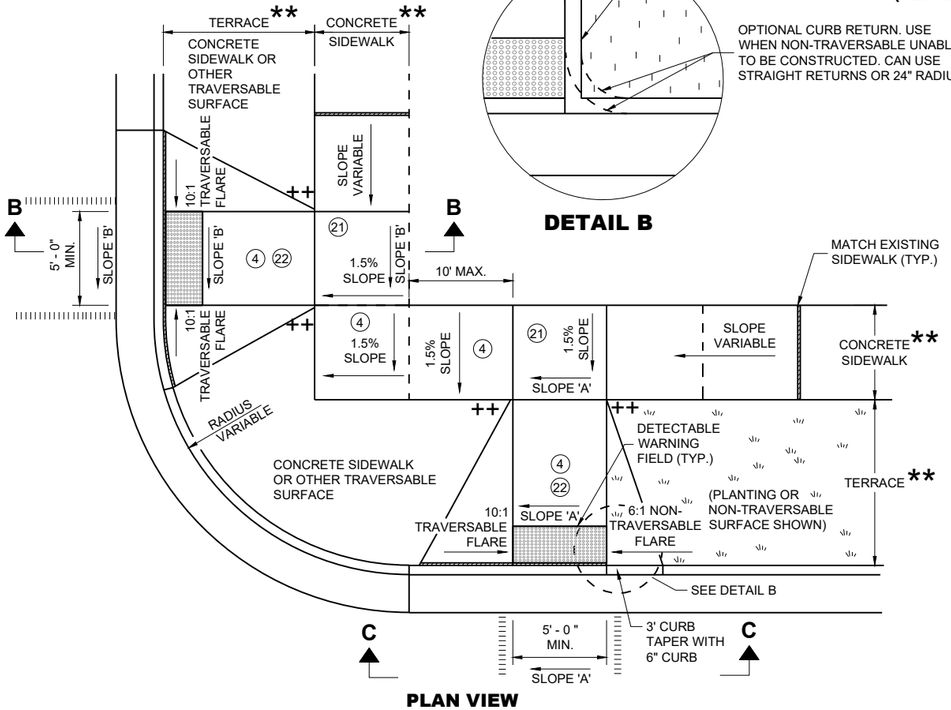
PLAN VIEW

CURB RAMP TYPE 2

(CENTER OF CORNER RADIUS)



DETAIL B



PLAN VIEW

CURB RAMP TYPE 3

(OUTSIDE OF CROSSWALK AREA)

GENERAL NOTES

AVOID PLACING DRAINAGE STRUCTURES, JUNCTION BOXES OR OTHER OBSTRUCTIONS IN FRONT OF CURB RAMP ACCESS AREAS.

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.

DETECTABLE WARNING FIELDS THAT ARE INSTALLED AS A GROUP OR SIDE BY SIDE SHALL BE FROM THE SAME MANUFACTURER.

(2) GRADE CHANGE BETWEEN GUTTER COUNTER SLOPE AND THE CURB RAMP SLOPE IS DESIRABLY 11% OR LESS AND SHALL NOT EXCEED 13.3%. TYPICAL GUTTER COUNTER SLOPE IS 4% BUT MAY BE MODIFIED TO FIT FIELD CONDITIONS. PROVIDE LONGITUDINAL DRAINAGE AROUND CURB AND AWAY FROM CURB RAMP. NO VERTICAL LIPS OR DISCONTINUITIES ARE ALLOWED. SLOPE OF CURB HEAD OPENING SHALL MATCH THE RAMP SLOPE, MINIMALLY 1.5%, DESIRABLY 7% OR LESS, AND SHALL NOT EXCEED A MAXIMUM OF 8.3%. WHEN ADJACENT TO 1.5% LANDING, CONSTRUCT CURB HEAD OPENING AT 1.5% IN THE DIRECTION OF PEDESTRIAN TRAVEL.

(3) MAXIMUM 8.3% CURB RAMP SLOPE IS ALLOWABLE WITH GUTTER COUNTER SLOPE OF 5% MAXIMUM AND A 13.3% MAXIMUM GRADE CHANGE.

(4) ±0.5% CONSTRUCTION TOLERANCE IN SIDEWALK CROSS SLOPE. THE SIDEWALK CROSS SLOPE SHALL NOT EXCEED 2.1% WITHOUT PRIOR APPROVAL FROM THE ENGINEER.

(7) WHEN GRADE BREAK DISTANCE EXCEEDS 5 FEET, USE RADIAL DETECTABLE WARNING FIELD PER SDD 8D5-f.

(8) PROVIDE GRADE BREAK PERPENDICULAR TO DIRECTION OF WHEELCHAIR TRAVEL.

(9) WHEN DISTANCE IS LESS THAN 6' - 0", IT MAY BE DIFFICULT TO ACHIEVE A 7% DESIGN MAXIMUM SLOPE OR FLATTER ALONG THE RAMP. REDUCE CURB HEIGHT IN TRIANGLE AREA TO ACHIEVE 7% DESIGN MAXIMUM SLOPE OR FLATTER ON RAMP. CONSTRUCT 2-INCH MINIMUM CURB HEIGHT BETWEEN 10:1 FLARES.

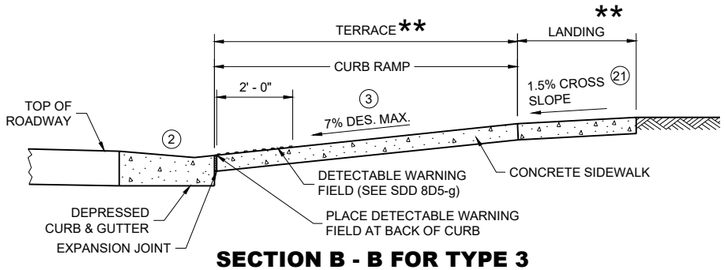
(17) A MAXIMUM 2-INCH CONCRETE BORDER IS PERMITTED ALONG ALL SIDES OF THE DETECTABLE WARNING FIELD SURFACE.

(19) WHERE A LANDING SERVES TWO CURB RAMPS, THE LANDING SLOPE SHALL NOT EXCEED THE CROSS SLOPE AT THE BOTTOM OF THE RAMP OR WITHIN THE CROSSWALK PARALLEL TO THE DIRECTION OF TRAVEL.

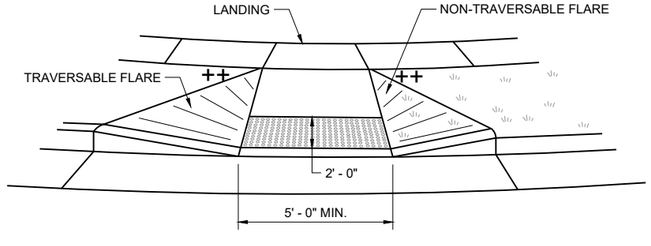
(21) PROVIDE A LANDING WITH A SLOPE PARALLEL TO ROADWAY THAT MATCHES SLOPE AT THE BOTTOM OF THE ADJACENT RAMP. SLOPE PERPENDICULAR TO ROADWAY SHALL BE 2.1% MAXIMUM. STANDARD LANDING SIZE IS 5 FEET BY 5 FEET.

(22) THE ENTIRE RAMP SHALL BE A PLANAR SURFACE. DO NOT WARP THE RUNNING SLOPE OR CROSS SLOPE OF THE RAMP. WARPING OF THE SIDEWALK CROSS SLOPE SHALL TAKE PLACE BETWEEN THE LANDING AND MATCH POINT.

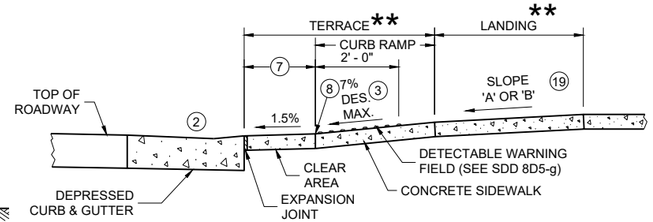
(23) THE CLEAR AREA BETWEEN THE BOTTOM OF RAMP AND BACK OF CURB SHALL BE SLOPED SO THAT WATER DRAINS OUT OF ONE SIDE OR BOTH SIDES OF THE CURB OPENING.



SECTION B - B FOR TYPE 3



VIEW C - C FOR TYPE 3



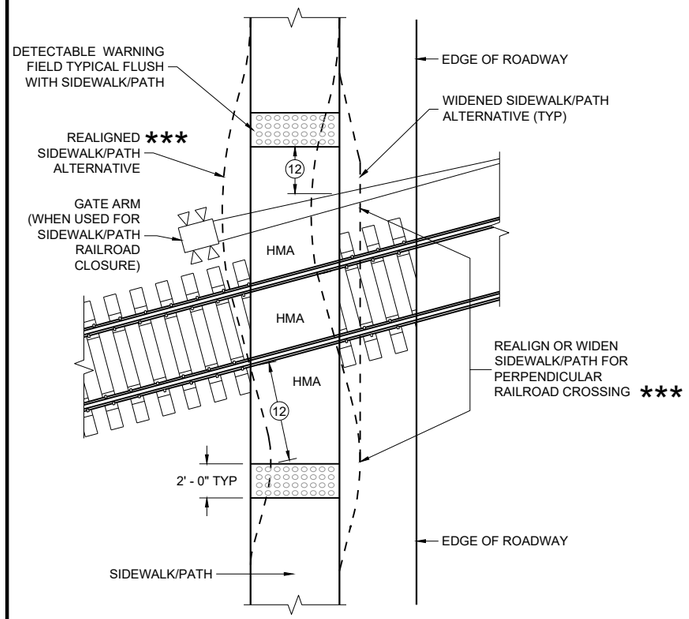
SECTION A - A FOR TYPE 2

LEGEND

▨	½" EXPANSION JOINT SIDEWALK
– – – –	CONTRACTION JOINT SIDEWALK
ıllıllıllıllıllı	PAVEMENT MARKING CROSSWALK (WHITE)
*	MAXIMUM 2.1% SLOPE IN ALL DIRECTIONS IN FRONT OF GRADE BREAK
**	WIDTH SHOWN ELSEWHERE IN THE PLANS
++	CONSTRUCT 6" WEDGE TO AVOID CONCRETE BREAKAGE

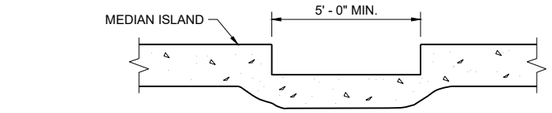
CURB RAMPS TYPE 2 AND 3

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

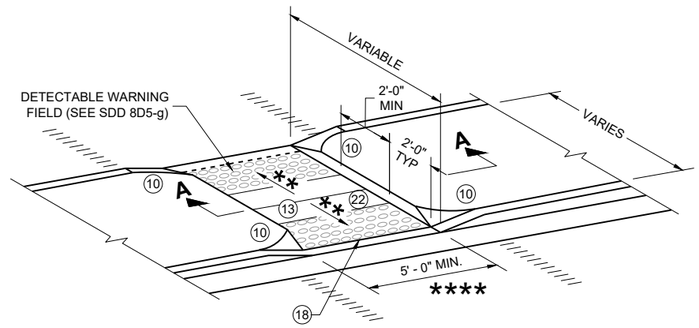


CURB RAMP TYPE 8

DETECTABLE WARNINGS FOR SIDEWALKS OR SHARED USE PATHS AT RAILROAD CROSSINGS



SECTION A - A FOR TYPE 5



CURB RAMP TYPE 5

MEDIAN ISLAND NON-ELEVATED PEDESTRIAN CROSSING

GENERAL NOTES

AVOID PLACING DRAINAGE STRUCTURES, JUNCTION BOXES OR OTHER OBSTRUCTIONS IN FRONT OF CURB RAMP ACCESS AREAS.

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.

SIDEWALK CROSS SLOPE SHALL NOT EXCEED 2.1%.

DETECTABLE WARNING FIELDS THAT ARE INSTALLED AS A GROUP OR SIDE BY SIDE, SHALL BE FROM THE SAME MANUFACTURER.

(2) GRADE CHANGE BETWEEN GUTTER COUNTER SLOPE AND THE CURB RAMP SLOPE IS DESIRABLY 11% OR LESS AND SHALL NOT EXCEED 13.3%. TYPICAL GUTTER COUNTER SLOPE IS 4% BUT MAY BE MODIFIED TO FIT FIELD CONDITIONS. PROVIDE LONGITUDINAL DRAINAGE AROUND CURB AND AWAY FROM CURB RAMP. NO VERTICAL LIPS OR DISCONTINUITIES ARE ALLOWED. SLOPE OF CURB HEAD OPENING SHALL MATCH THE RAMP SLOPE, MINIMALLY 1.5%, DESIRABLY 7% OR LESS, AND SHALL NOT EXCEED A MAXIMUM OF 8.3%. WHEN ADJACENT TO 1.5% LANDING, CONSTRUCT CURB HEAD OPENING AT 1.5% IN THE DIRECTION OF PEDESTRIAN TRAVEL.

(3) MAXIMUM 8.3% CURB RAMP SLOPE IS ALLOWABLE WITH GUTTER COUNTER SLOPE OF 5% MAXIMUM AND A 13.3% MAXIMUM GRADE CHANGE.

(4) ±0.5% CONSTRUCTION TOLERANCE IN SIDEWALK CROSS SLOPE. THE SIDEWALK CROSS SLOPE SHALL NOT EXCEED 2.1% WITHOUT PRIOR APPROVAL FROM THE ENGINEER.

(6) PROVIDE A 5 FOOT BY 5 FOOT LANDING. SLOPE PERPENDICULAR TO CURB SHALL BE 2.1% MAXIMUM. SLOPE PARALLEL TO CURB SHALL MATCH THE CURB AND GUTTER LONGITUDINAL SLOPE.

(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.

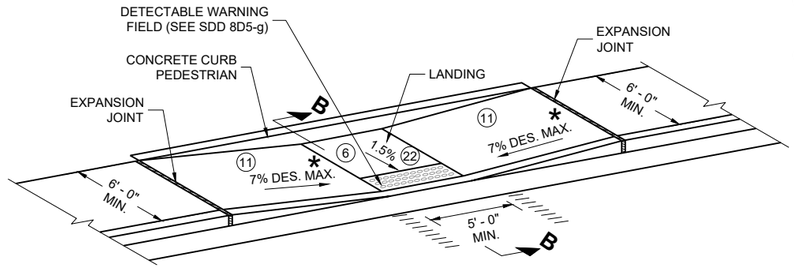
(12) THE EDGE OF THE DETECTABLE WARNING FIELD NEAREST TO A RAILROAD CROSSING SHALL BE 1.5 FEET ±0.1' FROM THE FACE OF THE GATE ARM IF THE GATE ARM EXTENDS ACROSS THE SIDEWALK/PATH, WHERE THERE IS NO PEDESTRIAN GATE, THE EDGE OF THE DETECTABLE WARNING FIELD NEAREST TO THE RAILROAD TRACK IS 15 FEET MAXIMUM AND 12 FEET MINIMUM, 15 FEET TYPICAL FROM THE NEAREST RAIL.

(13) DO NOT INSTALL DETECTABLE WARNING FIELDS AT THE EDGES OF STEET-LEVEL PEDESTRIAN REFUGE ISLANDS IF A MINIMUM 2 FOOT CONCRETE SURFACE WITHOUT DETECTABLE WARNINGS (MEASURED IN THE DIRECTION OF PEDESTRIAN TRAVEL) CANNOT BE ACHIEVED.

(17) A MAXIMUM 2-INCH CONCRETE BORDER IS PERMITTED ALONG ALL SIDES OF THE DETECTABLE WARNING FIELD SURFACE.

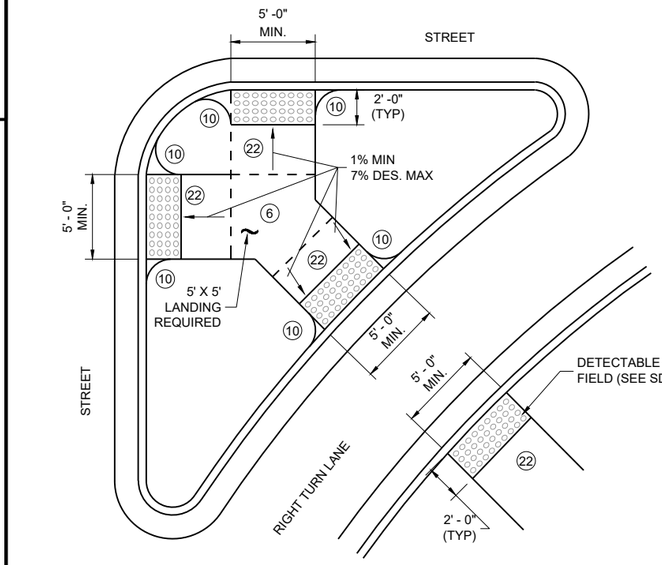
(18) WHEN THE DISTANCE BETWEEN THE BACK OF CURBS IS LESS THAN 6 FEET BUT THE FACE OF CURB TO FACE OF CURB DISTANCE IS 6 FEET OR GREATER THEN THE DETECTABLE WARNING FIELDS MAY BE MOVED SO THAT THE EDGE OF THE WARNING FIELD IS PLACED AT THE GUTTER FLOWLINE. MAINTAIN A MINIMUM OF TWO FEET BETWEEN DETECTABLE WARNING FIELD PANELS.

(22) THE ENTIRE RAMP SHALL BE A PLANAR SURFACE. DO NOT WARP THE RUNNING SLOPE OR CROSS SLOPE OF THE RAMP. WARPING OF THE SIDEWALK CROSS SLOPE SHALL TAKE PLACE BETWEEN THE LANDING AND MATCH POINT.



CURB RAMP TYPE 7A

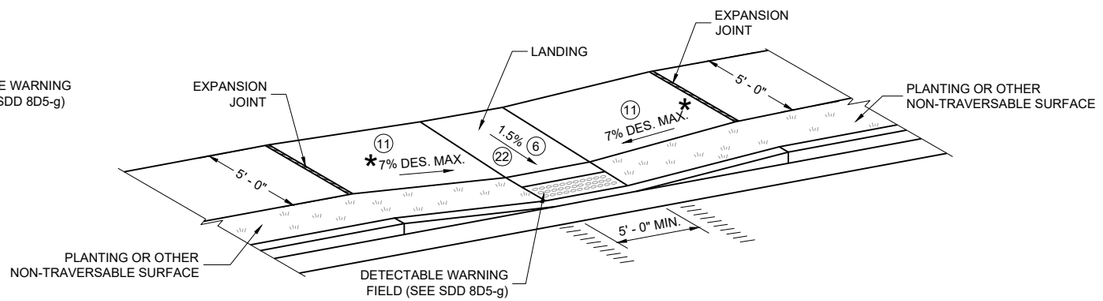
FOR INTERSECTIONS AND MID BLOCK CROSSINGS



CURB RAMP TYPE 6

DETECTABLE WARNING AT ISLANDS

REFER TO GENERAL NOTES (2) AND (3) FOR ALL ISLAND CURB RAMPS

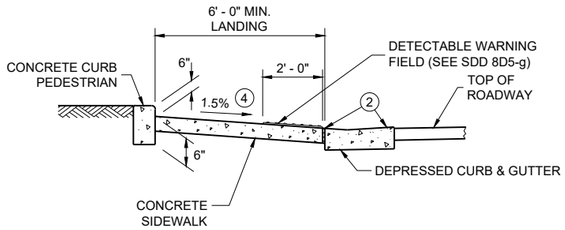


CURB RAMP TYPE 7B

FOR INTERSECTIONS AND MID BLOCK CROSSINGS

LEGEND

- ½" EXPANSION JOINT SIDEWALK
- CONTRACTION JOINT FIELD LOCATED
- PAVEMENT MARKING CROSSWALK (WHITE)
- * MAXIMUM 8.3%
- ** 1% MINIMUM (PROVIDE DRAINAGE)
- *** DETAILS TO BE DETERMINED BY ENGINEER
- **** FOR SHARED USE PATHS, WIDTH MUST BE AS WIDE AS THE CROSSWALK



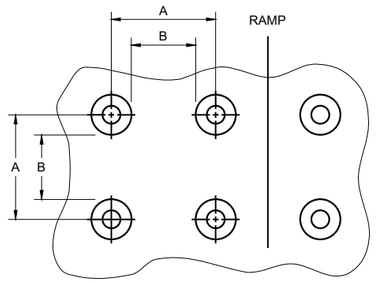
SECTION B - B FOR TYPE 7A

CURB RAMPS
TYPE 5, 6, 7A, 7B & 8

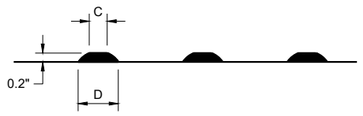
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

	MIN.	MAX.
A	1.6"	2.4"
B	0.65"	1.5"
C	*	*
D	0.9"	1.4"

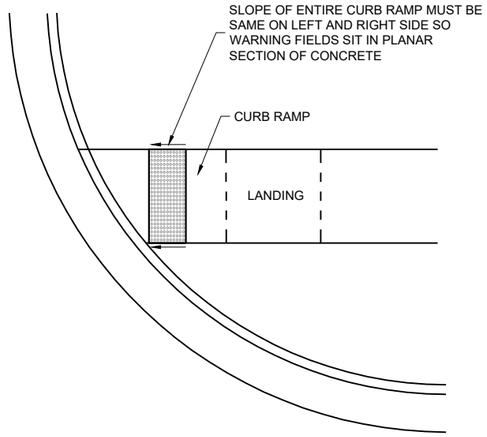
* THE C DIMENSION IS 50% TO 65% OF THE D DIMENSION.



PLAN VIEW



ELEVATION VIEW



DETECTABLE WARNING FIELD
PLANAR INSTALLATION

GENERAL NOTES

DETECTABLE WARNING FIELDS THAT ARE INSTALLED AT A CURB RAMP SHALL BE FROM THE SAME MANUFACTURER.

PLACE ALL DETECTABLE WARNING FIELD SYSTEMS IN ACCORDANCE TO THE MANUFACTURER'S RECOMMENDATION.

FIELD CUTS AT INTERMEDIATE JOINTS WITHIN THE RADIAL DETECTABLE WARNING FILED ARE PROHIBITED.

DETERMINE FINAL RADIAL WARNING FIELD CONFIGURATION AND ITS INDIVIDUAL PLATE LOCATIONS. PERFORM PRE-LAYOUT PRIOR TO PLACEMENT IN PLASTIC CONCRETE. FOLLOW MANUFACTURER'S PRODUCT LIST AND INSTALLATION RECOMMENDATIONS.

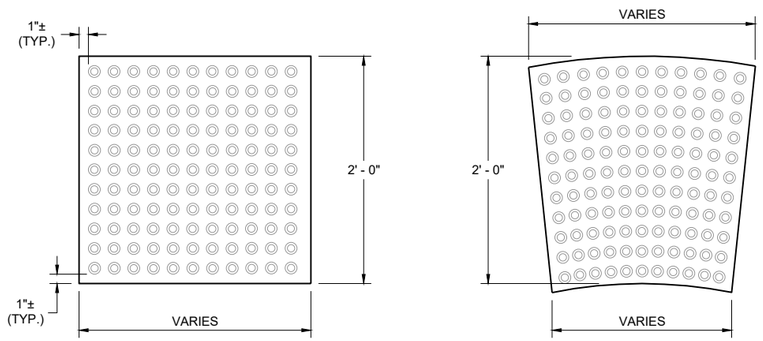
FOR RADIAL DETECTABLE WARNING FIELD APPLICATIONS WHERE STANDARD RADIAL PLATES ARE NOT AVAILABLE AT AN INTERSECTION CURB RADIUS, A COMBINATION OF SQUARE OR RECTANGULAR PLATES AND RADIAL PLATES MAY BE USED TO FORM RADIAL CONFIGURATION. RADIAL WEDGE PLATES IN COMBINATION WITH SQUARE PLATES ARE ALSO ACCEPTABLE. FOLLOW MANUFACTURER'S RECOMMENDATIONS.

REFER TO CONTRACT AND STANDARD SPECIFICATIONS FOR FIELD CUTTING REQUIREMENTS.

DO NOT EMBED IN CONCRETE ANY FIELD-CUT PLATES WITH CUT EDGES SHORTER THAN 6 INCHES. CONSULT WITH MANUFACTURER FOR RE-DRILLING AND ANCHORING REQUIREMENTS OF FIELD-CUT PLATES.

(15) FIELD SAW CUTS ALONG RADIAL DETECTABLE WARNING PLATES WILL BE NECESSARY TO MATCH EACH CURB RAMP EDGE. AVOID CUTTING THROUGH DOMES WHENEVER POSSIBLE. MAKE FIELD CUTS TRUE TO LINE AND WITHIN ⅛" DEVIATION. SMOOTH EDGES OF FIELD CUT PLATES.

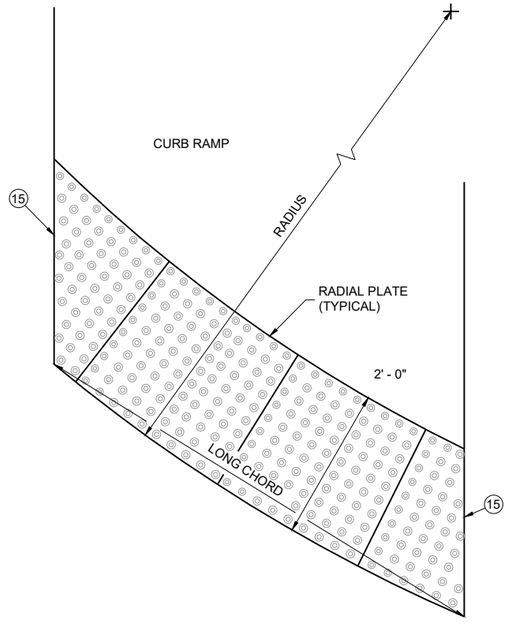
TRUNCATED DOMES
DETECTABLE WARNING PATTERN DETAIL



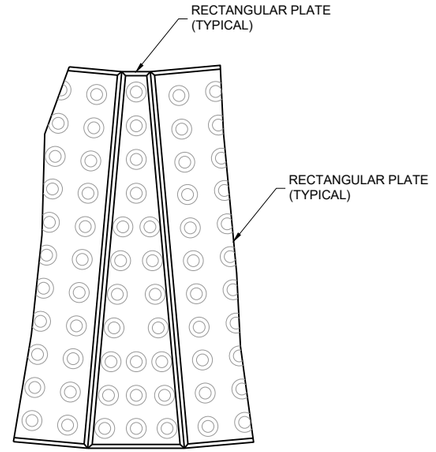
RECTANGULAR PLATES

RADIAL PLATES

PLAN VIEW
DETECTABLE WARNING FIELDS (TYPICAL)



PLAN VIEW
RADIAL DETECTABLE WARNING FIELD ATTRIBUTES



PLAN VIEW
RADIAL WEDGE PLATE CONNECTION DETAIL

CURB RAMPS
RECTANGULAR AND RADIAL
DETECTABLE WARNING PLATES

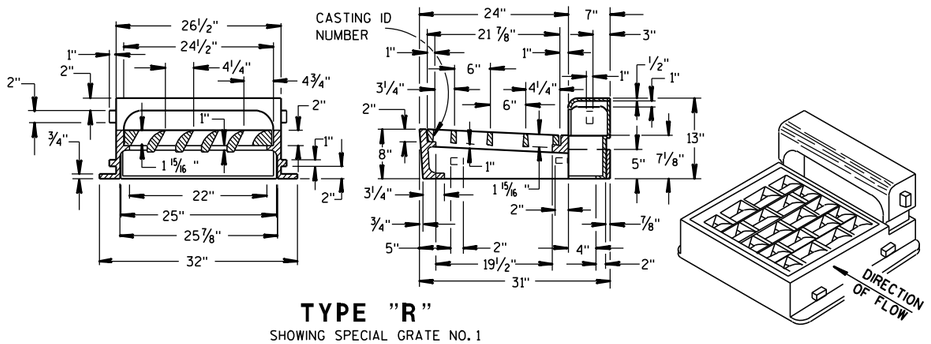
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
February 2025 — DATE
/S/ Rodney Taylor — <position>

FHWA

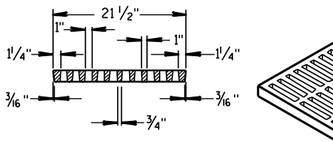
6
SDD 08D05-22g

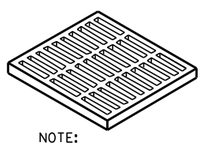
INLET COVERS



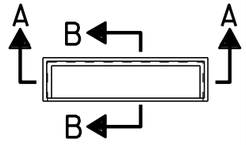
TYPE "R"

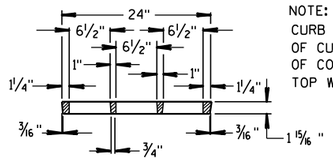
SHOWING SPECIAL GRATE NO. 1
(TO BE NOTED AS R-1 IN DRAINAGE TABLE)



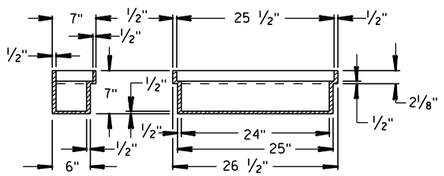


(APPROX. WEIGHT - 510 LBS.)
FRAME..... 245 LBS.
CURB..... 120 LBS.
GRATE..... 145 LBS.





NOTE:
CURB PLUG USED IN PLACE OF CURB BOX IN ABSENCE OF CONC. CURB. FILL TO TOP WITH CONCRETE.



GRATE FOR TYPE "R" INLET COVER

(GRATE..... 150 LBS.)
(TO BE USED UNLESS OTHERWISE NOTED IN DRAINAGE TABLE)

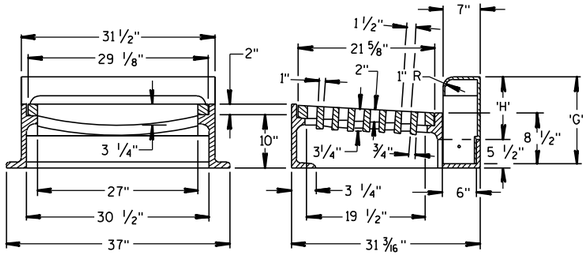
SECTION B-B SECTION A-A

SPECIAL CURB PLUG "P"

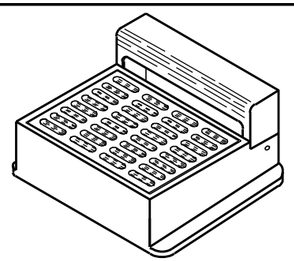
(CURB PLUG..... 85 LBS.)
(TO BE NOTED AS R-P IN DRAINAGE TABLE)

'H' = 9" FOR 6" CURB
'H' = 11" FOR 8" CURB

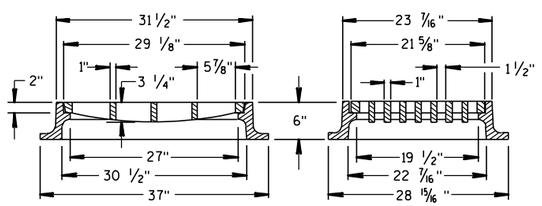
'G' = 13 3/4" FOR 6" CURB
'G' = 15 3/4" FOR 8" CURB



TYPE "W"



(APPROX. WEIGHT - 670 LBS.)
FRAME..... 350 LBS.
CURB BOX..... 135 LBS.
GRATE..... 185 LBS.

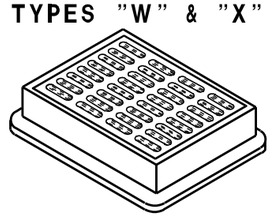


TYPE "X"

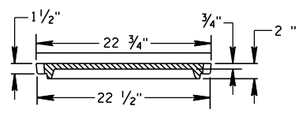
(APPROX. WEIGHT - 470 LBS.)

ALTERNATE GRATE
(FOR EXPRESSWAY RAMPS)

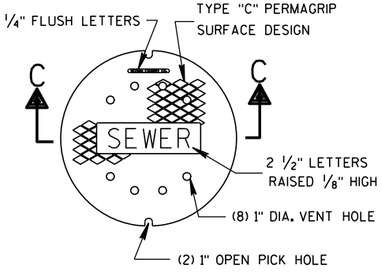
TYPES "W" & "X"

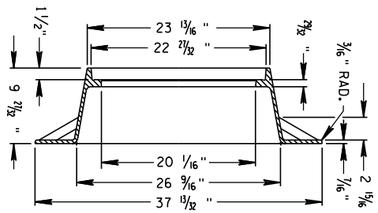


MANHOLE COVER



SECTION C-C





TYPE "Q"

(APPROX. WEIGHT - 290 LBS.)

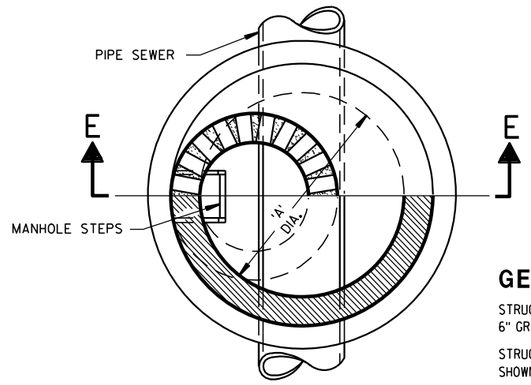
TABLE OF DIMENSIONS

TYPE	'A'	'B'	'C'
11	3'-6"	2'-8"	12" - 36"*
12	4'-0"	3'-8"	12" - 42"**
13	5'-0"	5'-8"	42" - 48"
14	6'-0"	7'-8"	54" - 60"

* 12" - 21" FOR PRECAST MANHOLES
** 12" - 24" FOR PRECAST MANHOLES

THE FIRST STEP SHALL BE PLACED 16" ABOVE THE BENCH.

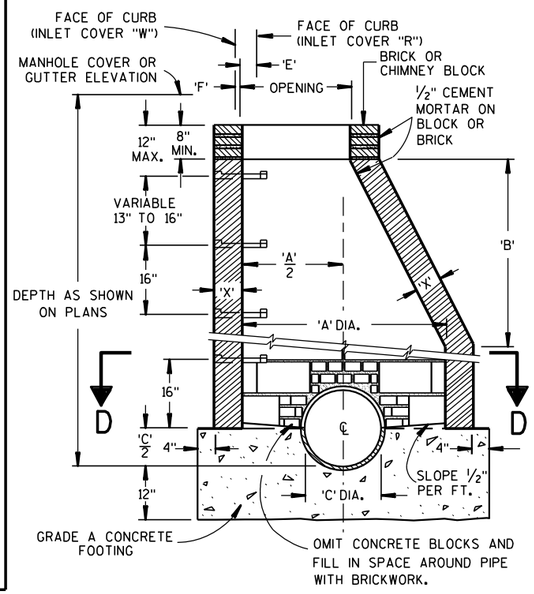
MANHOLE



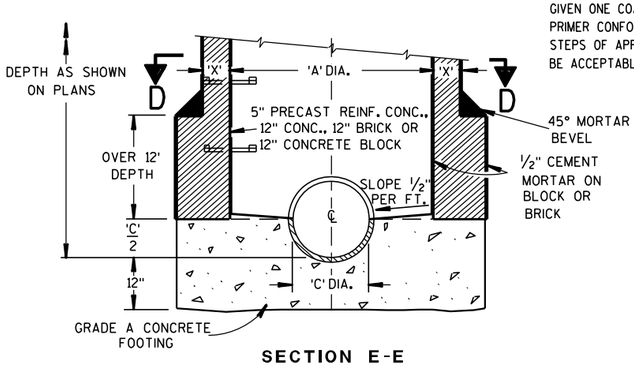
HALF SECTION D-D

TABLE OF OPENING DIMENSIONS

COVER TYPE	COVER DESCRIPTION	OPENING	'E'	'F'
"O"	ROUND	2'-2" DIA.	—	—
"W"	CURB BOX	1'-8" X 2'-6"	—	1"
"X"	INLET	1'-10" X 2'-6"	—	—
"R"	CURB BOX	2'-0" X 2'-1"	4"	—



SECTION E-E



SECTION E-E

TYPES 11, 12, 13 & 14

GENERAL NOTES

STRUCTURE WALL THICKNESS 'X' TO BE 8" BRICK, 6" CONCRETE BLOCK, 6" GRADE A CONCRETE OR 5" PRECAST REINFORCED CONCRETE.

STRUCTURE FOOTINGS ARE TO BE GRADE A CONCRETE OF THE THICKNESS SHOWN IN THE DETAIL OR 5" PRECAST REINFORCED CONCRETE.

REINFORCEMENT FOR 5" PRECAST REINFORCED CONCRETE SHALL BE 6" X 6" W16 X W16 WELDED SREEL WIRE FABRIC AND SHALL BE EMBEDDED 2" CLEAR.

PRECAST INLET UNITS AND BASES SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF AASHTO DESIGNATION M 199.

PRECAST CONCRETE FLAT SLAB TOPS MAY BE USED ON THE STRUCTURES. THE TOPS SHALL BE INSTALLED ON A BED OF MORTAR.

PRECAST REINFORCED BASES SHALL BE PLACED ON A BED OF MATERIAL AT LEAST 6" IN DEPTH, WHICH MEETS THE REQUIREMENTS FOR GRANULAR BACK-FILL. THIS BEDDING SHALL BE COMPACTED AND PROVIDE UNIFORM SUPPORT FOR THE ENTIRE AREA OF THE BASE.

SET FRAME ELEVATION 0.03 FT. LOWER THAN ELEVATION INDICATED ON THE PLANS.

THE CONTRACTOR MAY FORM AND POUR MONOLITHIC CONCRETE INVERT PROVIDED THE PIPE ENDS ARE EXTENDED INTO THE M.H. AND NOT TERMINATED WITHIN THE M.H. WALLS.

MANHOLE STEPS

STEPS MEETING THE FOLLOWING REQUIREMENTS SHALL BE INSTALLED IN ALL STRUCTURES OVER 5 FEET IN DEPTH; 16 INCH C-C MAX. SPACING; PROJECT A MINIMUM CLEAR DISTANCE OF 4 INCHES FROM THE WALL AT THE POINT OF EMBEDMENT; MINIMUM WALL EMBEDMENT OF 3 INCHES IN PRECAST MANHOLE AND 6 INCHES IN 8 INCH BRICK OR 6 INCH BLOCK MANHOLE; TREAD OF STEP SHALL HAVE A NON-SKID SURFACE AND BE FLANKED BY CLEATS, WITH A MINIMUM OF 10 INCHES CLEAR BETWEEN CLEATS, TO PREVENT FOOT SLIPPING OFF THE EDGE CLEATS SHALL BE A MINIMUM OF 3/4 INCH HIGH BY 3/4 INCH WIDE HAVING A MINIMUM THICKNESS OF 3/8 INCH. STEPS SHALL BE CAPABLE OF SUPPORTING A CONCENTRATED LOAD OF 300 LBS. FERROUS METAL STEPS NOT PAINTED OR TREATED TO RESIST CORROSION SHALL HAVE A MINIMUM CROSS SECTIONAL DIMENSION OF 1 INCH.

SOLID ALUMINUM STEPS SHALL HAVE A MINIMUM CROSS SECTIONAL DIMENSION OF 0.75 INCH. ALUMINUM SURFACES TO BE EMBEDDED IN CONCRETE SHALL BE GIVEN ONE COAT OF SUITABLE QUALITY PAINT, SUCH AS ZINC CHROMATE PRIMER CONFORMING TO FEDERAL SPECIFICATION TT-P-645 OR EQUIVALENT. STEPS OF APPROVED POLYPROPYLENE PLASTIC COATED REINFORCING BAR WILL BE ACCEPTABLE.

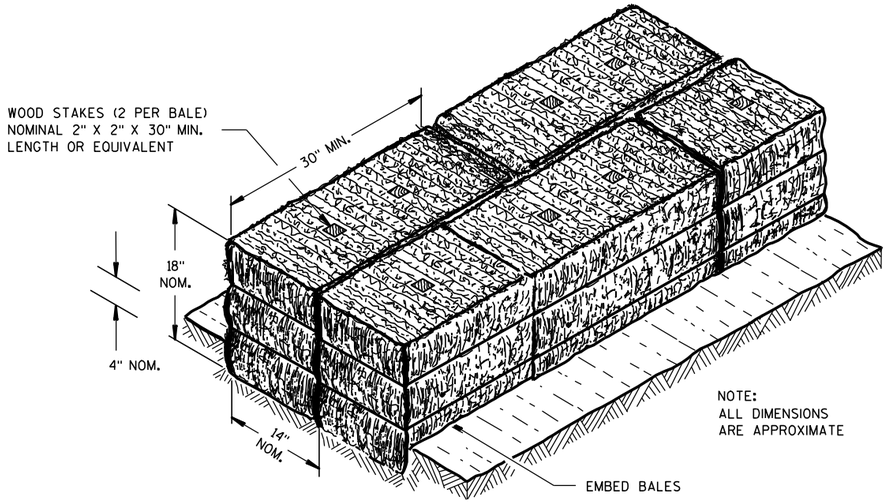
MANHOLES, MANHOLE & INLET COVERS

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

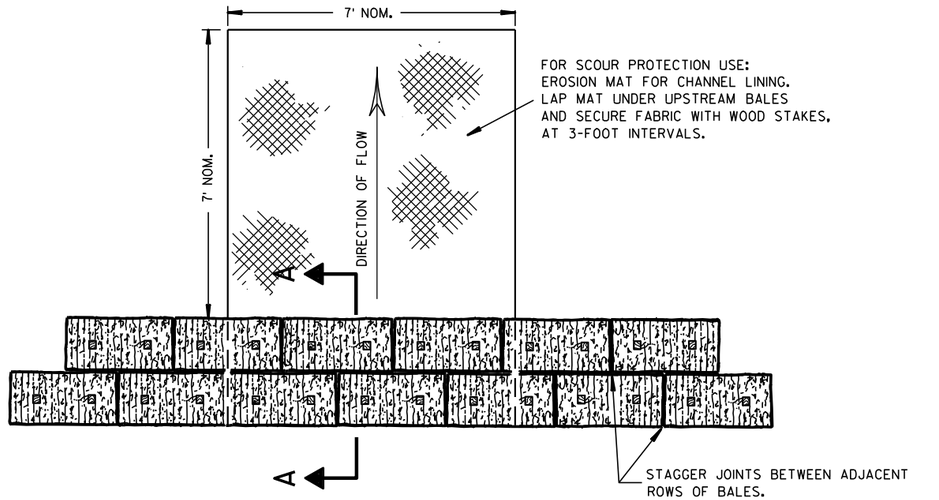
APPROVED
4/12/2011 — DATE
/S/ Jerry H. Zogg — ROADSIDE STANDARDS ENGINEER
FHWA

S.D.D. 8 D 17-6

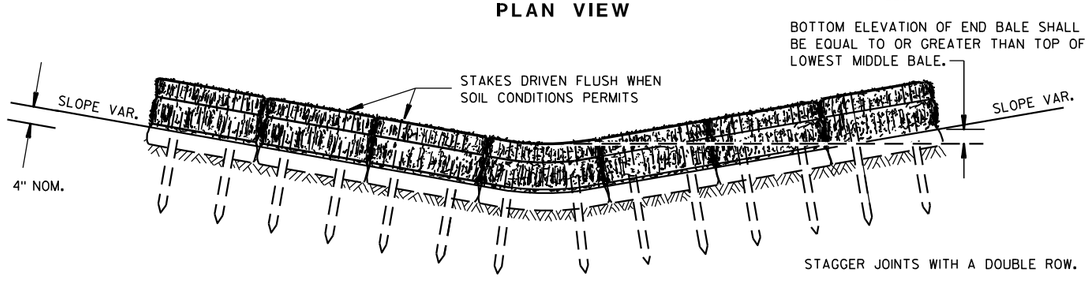
6



SECTION A-A



PLAN VIEW



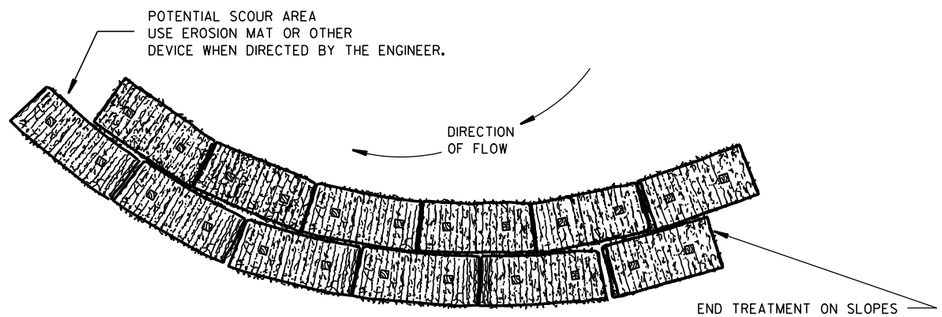
FRONT ELEVATION

TEMPORARY DITCH CHECK USING EROSION BALES (1)

GENERAL NOTES

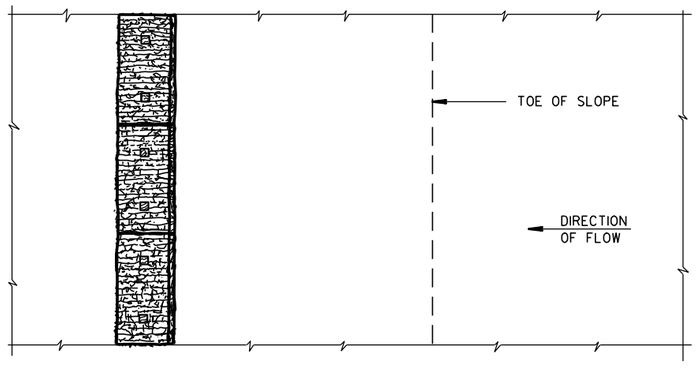
DETAILS OF CONSTRUCTION, MATERIALS AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS AND THE APPLICABLE SPECIAL PROVISIONS.

(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.

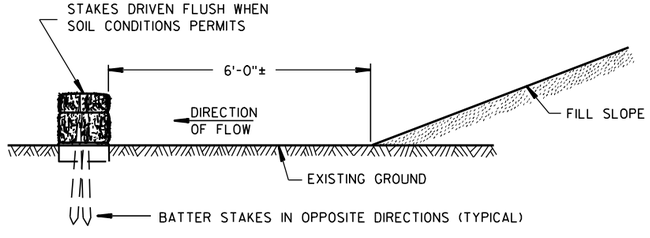


PLAN VIEW

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

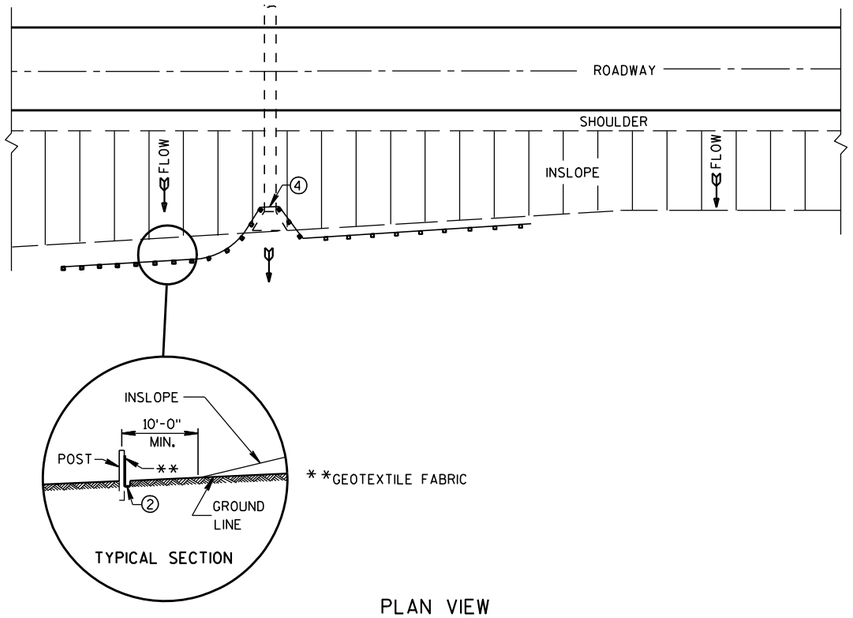
APPROVED
6/04/02 DATE
/S/ Beth Cannestra
CHIEF ROADWAY DEVELOPMENT ENGINEER
FHWA

6

S.D.D. 8 E 8-3

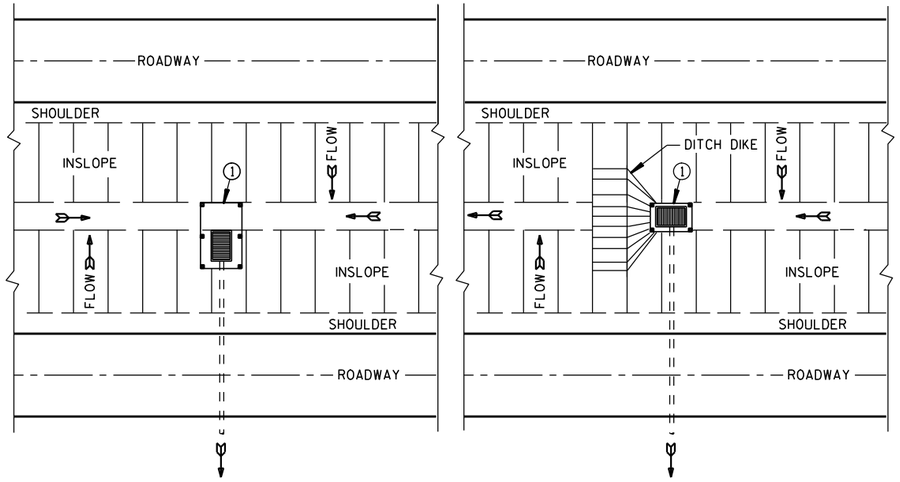
6

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.

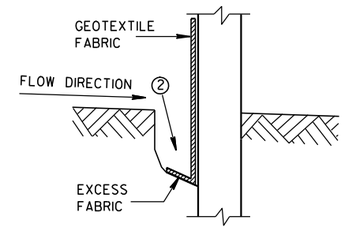
① HORIZONTAL BRACE REQUIRED WITH 2" X 4" WOODEN FRAME OR EQUIVALENT AT TOP OF POSTS.

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.

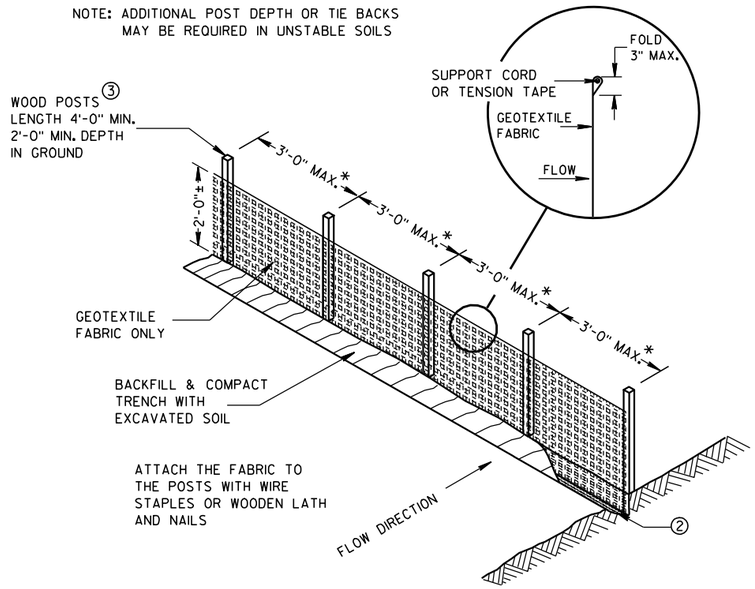
③ WOOD POSTS SHALL BE A MINIMUM SIZE OF 1⅛" X 1⅛" OF OAK OR HICKORY.

④ SILT FENCE TO EXTEND ACROSS THE TOP OF THE PIPE.

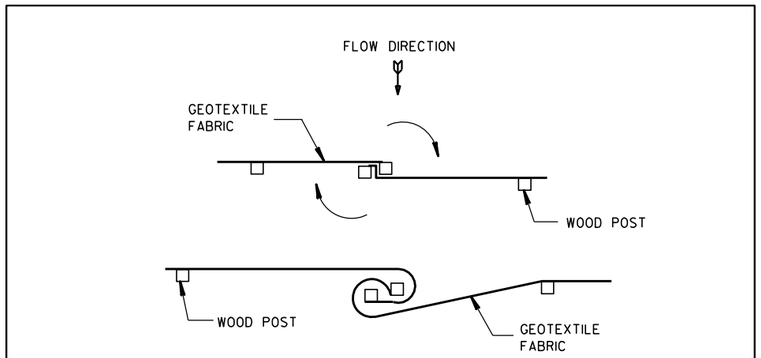
⑤ CONSTRUCT SILT FENCE FROM A CONTINUOUS ROLL IF POSSIBLE BY CUTTING LENGTHS TO AVOID JOINTS. IF A JOINT IS NECESSARY USE ONE OF THE FOLLOWING TWO METHODS; A) OVERLAP THE END POSTS AND TWIST, OR ROTATE, AT LEAST 180 DEGREES, B) HOOK THE END OF EACH SILT FENCE LENGTH.



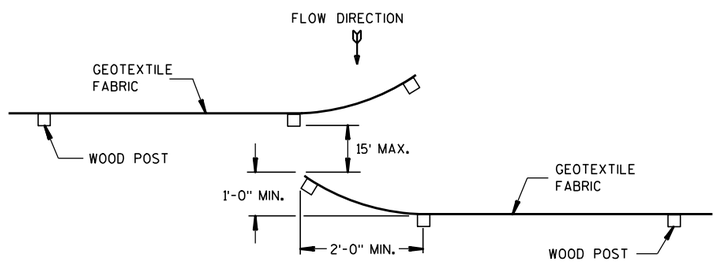
TRENCH DETAIL



SILT FENCE

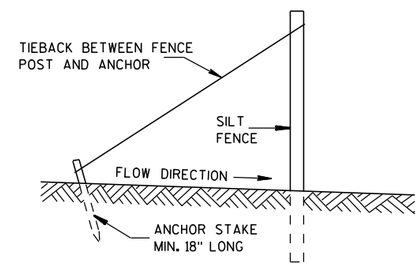


TWIST METHOD



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

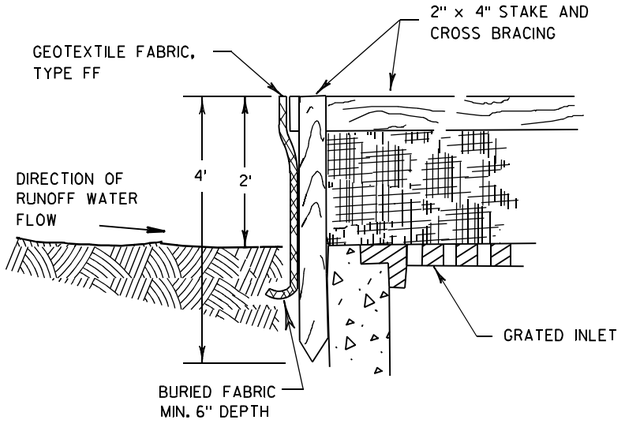
APPROVED
4-29-05 DATE
/S/ Beth Cannestra
CHIEF ROADWAY DEVELOPMENT ENGINEER
FHWA

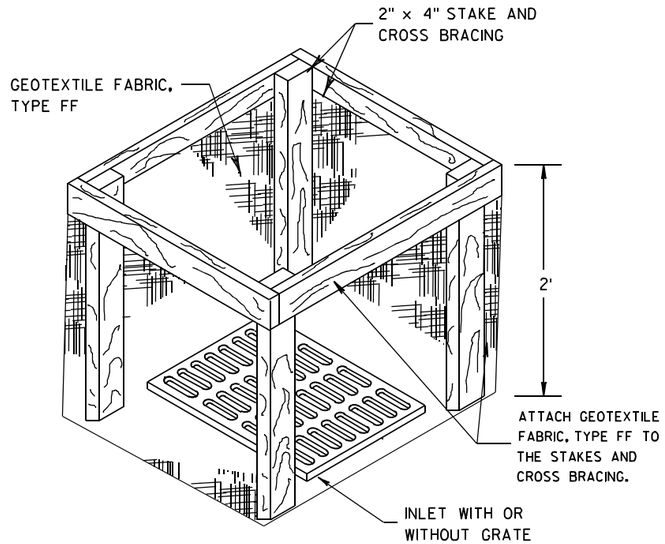
6

S.D.D. 8 E 9-6

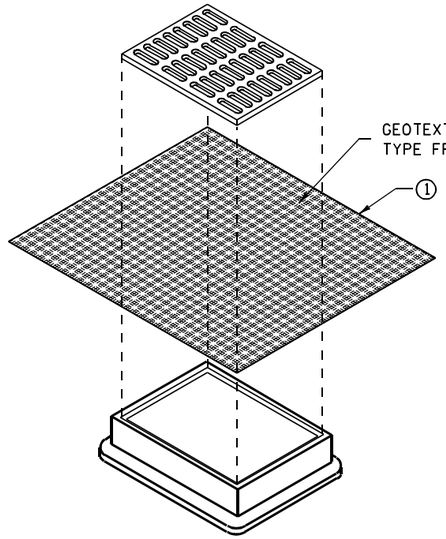
6

S.D.D. 8 E 9-6



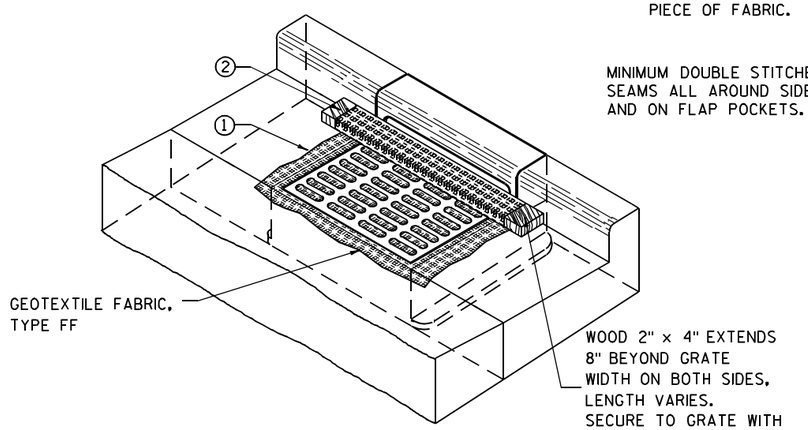


INLET PROTECTION, TYPE A

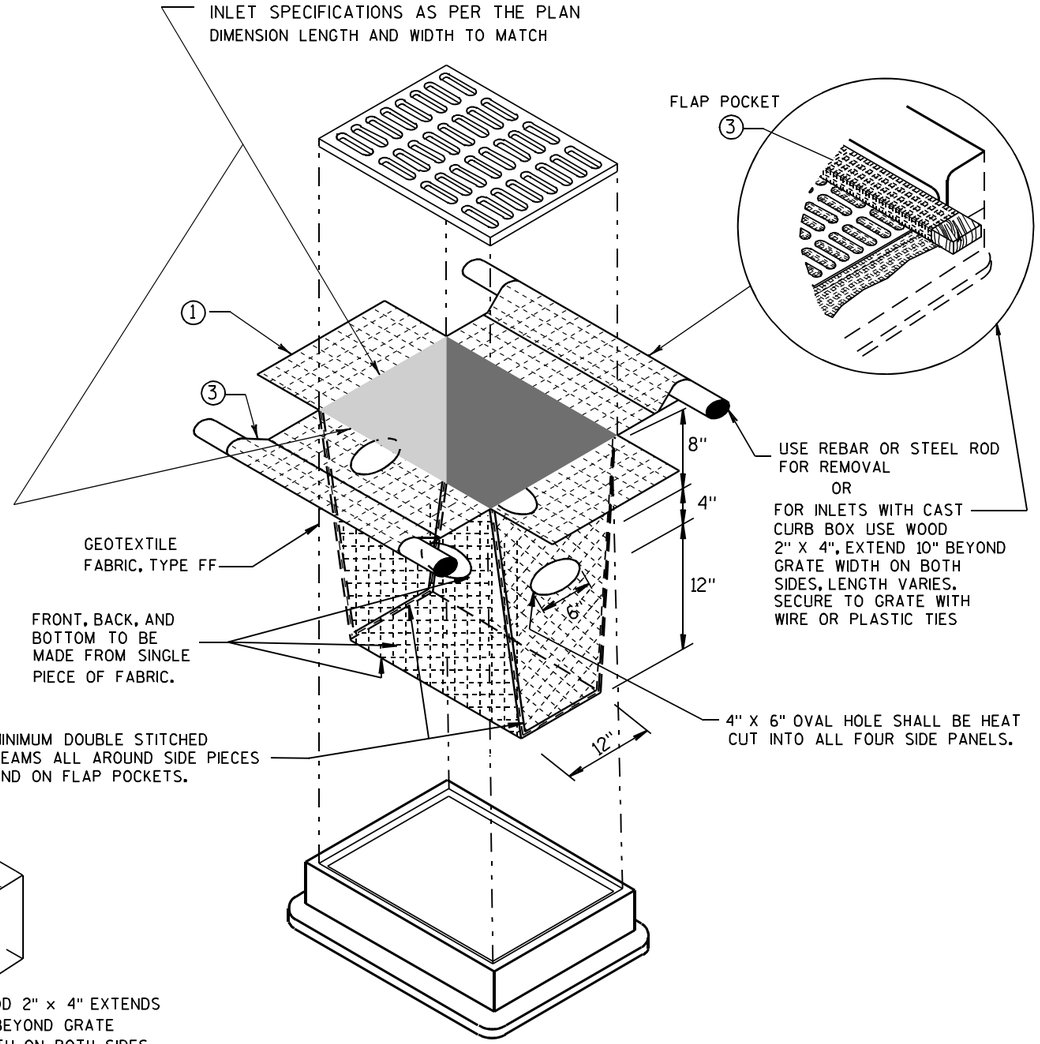


INLET PROTECTION, TYPE B
(WITHOUT CURB BOX)

(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.

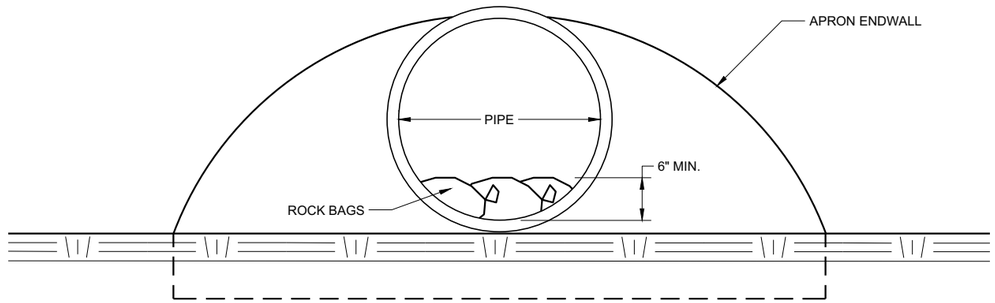
THE INSTALLED BAG SHALL HAVE A MINIMUM SIDE CLEARANCE, BETWEEN THE INLET WALLS AND THE BAG, MEASURED AT THE BOTTOM OF THE OVERFLOW HOLES, OF 3". WHERE NECESSARY THE CONTRACTOR SHALL CINCH THE BAG, USING PLASTIC ZIP TIES, TO ACHIEVE THE 3" CLEARANCE. THE TIES SHALL BE PLACED AT A MAXIMUM OF 4" FROM THE BOTTOM OF THE BAG.

INLET PROTECTION
TYPE A, B, C, AND D

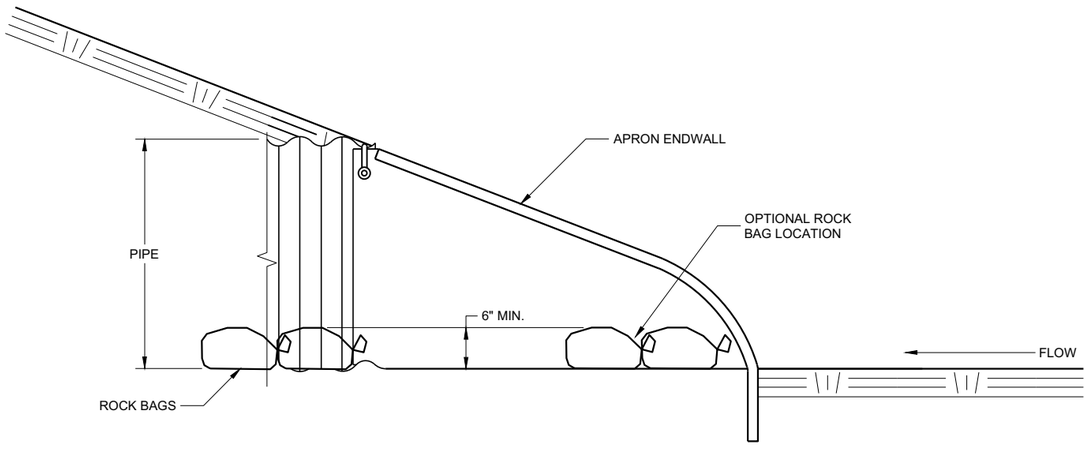
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
10/16/02
DATE
/S/ Beth Cannestra
CHIEF ROADWAY DEVELOPMENT ENGINEER
FHWA

6
S.D.D. 8 E 10-2



END VIEW



SIDE VIEW

CULVERT PIPE CHECK

(INSTALL ON INLET END ONLY)

CULVERT PIPE CHECK	
STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION	
APPROVED May 2019 DATE	/S/ Daniel Schave EROSION CONTROL ENGI
FHWA	

6

SDD 08E15 - 01

METAL APRON ENDWALLS

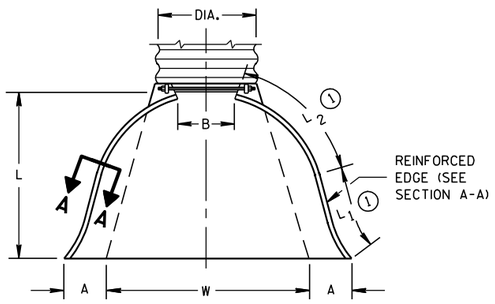
PIPE DIA. (IN.)	MIN. THICK. (Inches) STEEL	MIN. THICK. (Inches) ALUM.	DIMENSIONS (Inches) A (±1")	B (MAX.)	H (±1")	L (±1 1/2")	L1 ①	L2 ①	W (±2")	APPROX. SLOPE	BODY
12	.064	.060	6	6	6	21	12	17 1/2	24	2 1/2 to 1	1 Pc.
15	.064	.060	7	8	6	26	14	21 3/4	30	2 1/2 to 1	1 Pc.
18	.064	.060	8	10	6	31	15	28 1/4	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

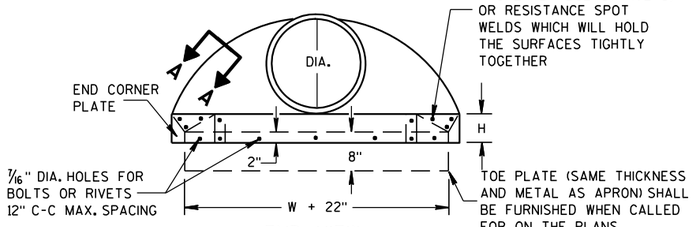
REINFORCED CONCRETE APRON ENDWALLS

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

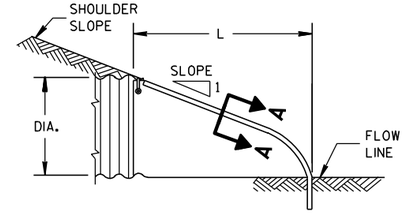
*MINIMUM
**MAXIMUM



PLAN VIEW

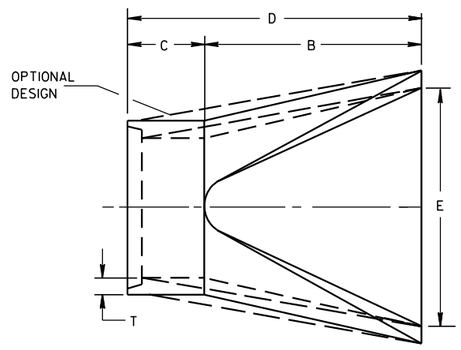


END VIEW

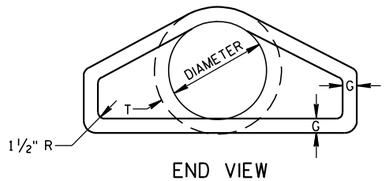


SIDE ELEVATION

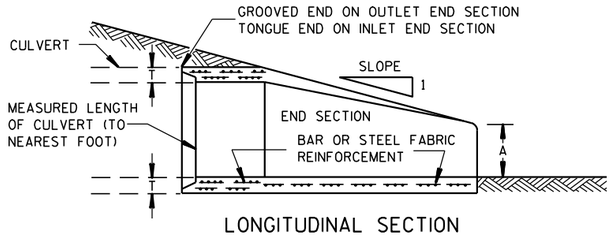
METAL ENDWALLS



PLAN

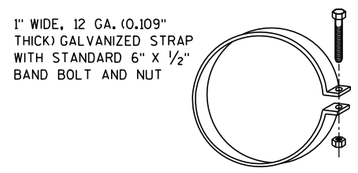


END VIEW



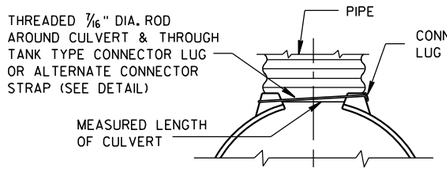
LONGITUDINAL SECTION

CONCRETE ENDWALLS

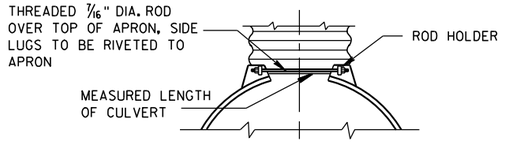


ALTERNATE FOR TYPE 1 CONNECTION

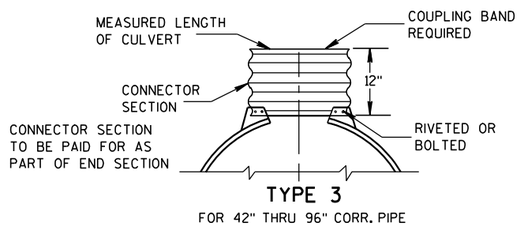
END SECTION CONNECTOR STRAP



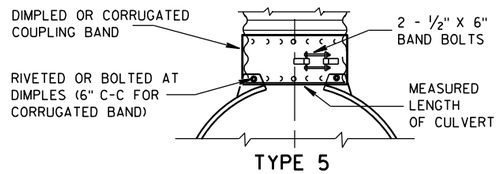
TYPE 1
FOR 12" THRU 24" CORR. PIPE



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

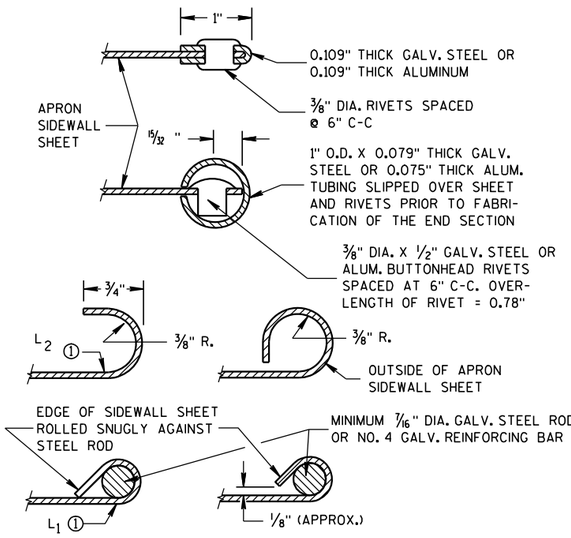
NOTE: DIMPLED BAND FITS OVER OUTSIDE OF ENDWALL. AND CORRUGATED BAND FITS INSIDE ENDWALL. DIMPLED BAND MAY BE USED WITH HELICALLY CORRUGATED PIPE.

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.

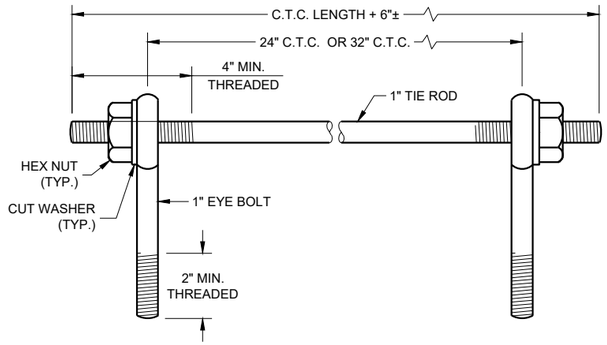
① FOR PIPE SIZES UP TO 60" DIAMETER, A 180° ROLLED EDGE MAY BE USED INSTEAD OF STEEL ROD REINFORCEMENT. SEE SECTION A-A.

APRON ENDWALLS FOR CULVERT PIPE

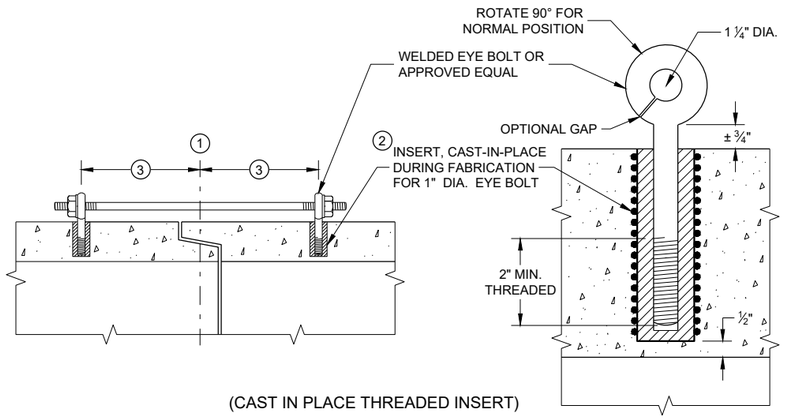
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

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) CENTER LINE 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.

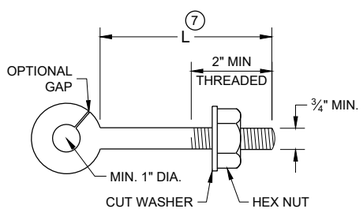
(3) HOLES SHALL BE CAST-IN-PLACE OR DRILLED PER THE APPLICABLE DETAIL, AND EQUAL DISTANCE FROM THE CENTERLINE OF THE JOINT.

(4) BOLT PROJECTION INSIDE OF PIPE SHALL NOT EXCEED 2 INCHES.

(5) OPENING TO BE ROD DIAMETER PLUS 1 INCH.

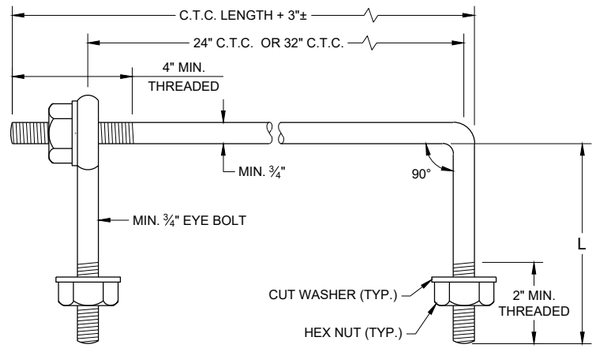
(6) LENGTH ADEQUATE TO EXTEND TO WITHIN ½ INCH OF THE INNER SURFACE OF THE PIPE.

(7) EYE BOLT LENGTH DETERMINED BY WALL THICKNESS, BELL THICKNESS AND BOLT PROJECTION INSIDE PIPE.

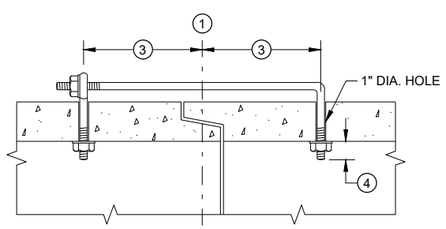


EYE BOLT (7)

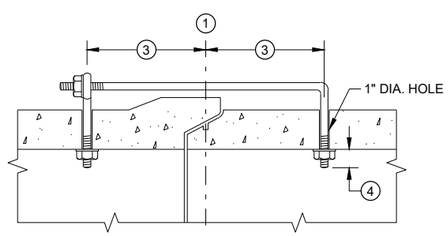
NOTE: TWO EYE BOLTS MAY BE USED WITH A 30" OR 38" LONG THREADED ROD IN LIEU OF THE 90° BENT TIE ROD.



EYE BOLT AND TIE ROD



(TONGUE AND GROOVE PIPE)



(MODIFIED BELL PIPE)

LONGITUDINAL SECTION

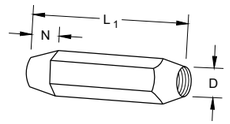
(JOINT TIES FOR 18" TO 66" DIA. CONCRETE PIPE)

EYE BOLT AND TIE ROD ASSEMBLY (ALTERNATE NO. 2)

ADJUSTABLE TIE ROD TABLE

PIPE DIAMETER	TIE ROD DIAMETER	D	L_1	N
12 - 60	⅝	⅝	5	½
66 - 84	¾	¾	5	½
90 - 144	1	1	7	1 7/16

DIMENSIONS SHOWN ARE IN INCHES



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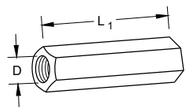
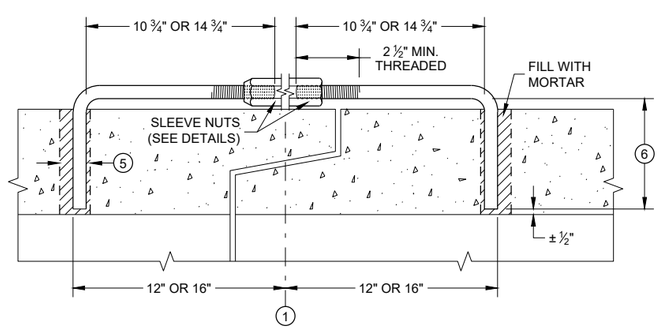


PLAIN

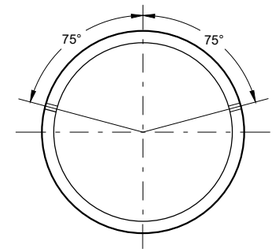
RIGHT AND LEFT THREADS

SLEEVE NUTS



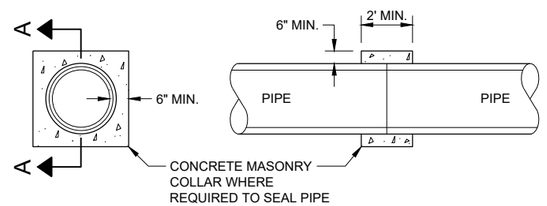
LONGITUDINAL SECTION

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

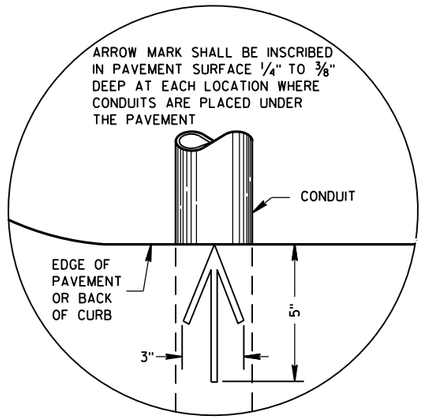
JOINT TIES FOR CONCRETE PIPE AND CONCRETE COLLAR DETAIL

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
November 2021 — DATE
/S/ Rodney Taylor — ROADWAY STANDARDS DEVE ENGINEER
FHWA

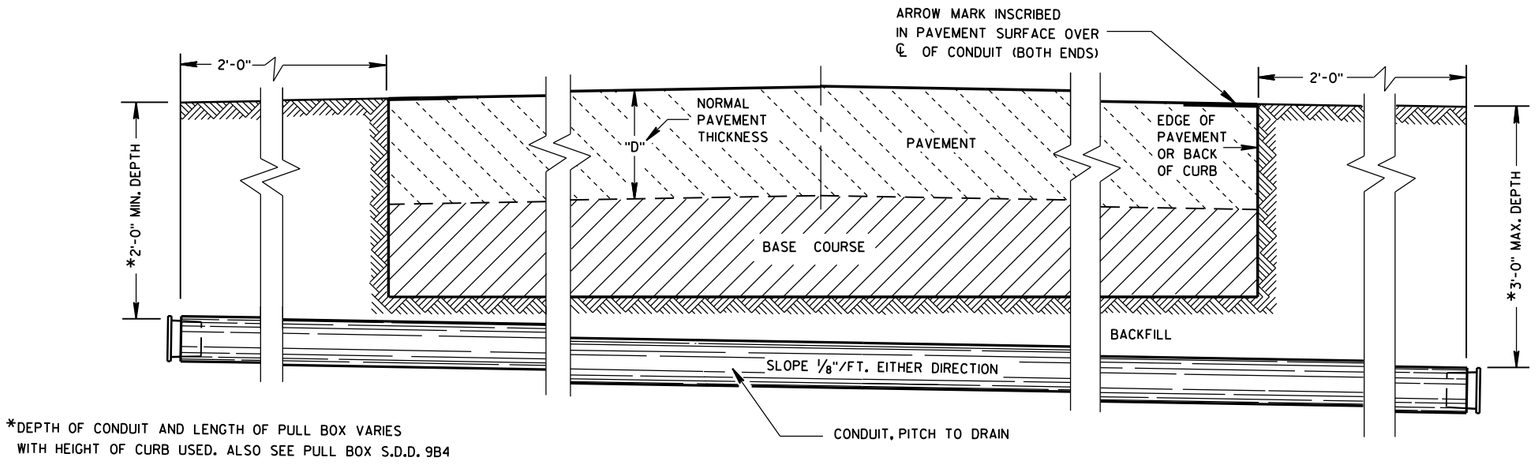
SDD 08F04 - 08

SDD 08F04 - 08



PLAN VIEW

ARROW MARK



*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

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.

CONDUIT

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
March, 2017 — DATE
/S/ Ahmet Demirbilek — STATE ELECTRICAL
FHWA

6

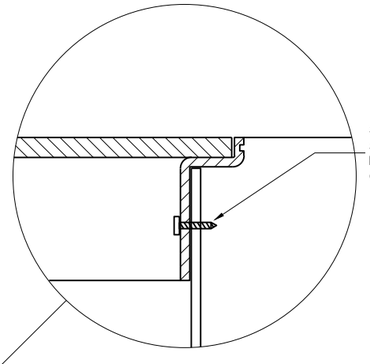
S.D.D. 9 B 2-10

TABLE OF NOMINAL DIMENSIONS
AND WEIGHTS

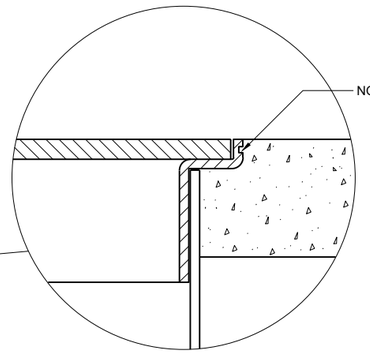
DIMENSION IN INCHES		NON- CONDUCTIVE PULL BOX	
BOX DIAMETER ** (INSIDE)	A	24	24
BOX OVERALL OUTSIDE DIAMETER	B	27	27
BOX LENGTH	C	36	42
FRAME OPENING	D	22 ½	22 ½
WEIGHT IN POUNDS *			
COVER		50	50
BOX ONLY		75	85

*THE ACTUAL WEIGHT OF THE COVER OR BOX ONLY MAY VARY NOT TO EXCEED 100 LBS INDIVIDUALLY.

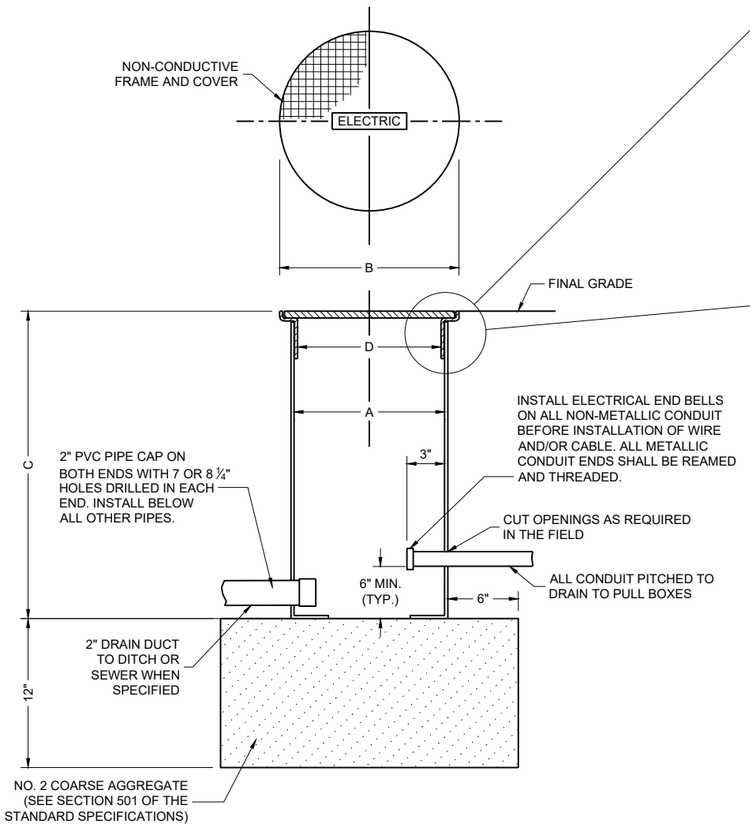
** DIAMETER VARIES FROM TOP TO BOTTOM WITH THE DIAMETER LARGER AT THE BOTTOM TO PREVENT FROST HEAVE.



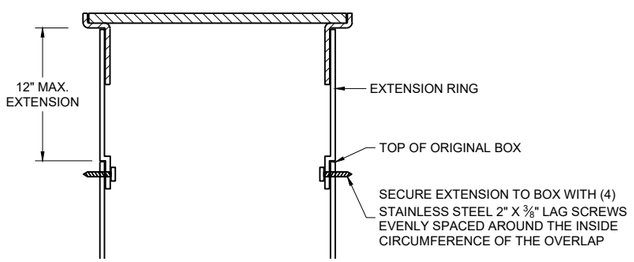
INSTALLED IN SOD OR CRUSHED AGGREGATE



INSTALLED IN SIDEWALK



NON-CONDUCTIVE PULL BOX



BOX EXTENSION

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 ½" DIAMETER

ENSURE COVER SURFACE IS SKID RESISTANT WITH A COEFFICIENT OF FRICTION OF AT LEAST 0.5 AND VERTICAL SURFACE DICONTINUITIES LESS THAN ¼".

COVER SHALL BE MAGNETICALLY LOCATABLE.

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 ¼".

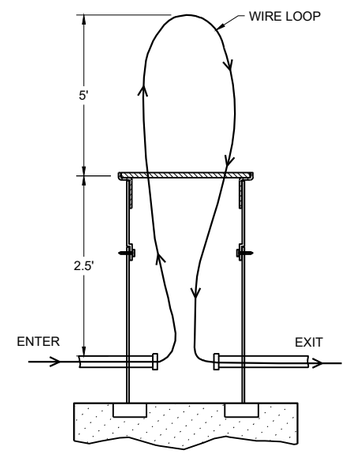
THE CONTRACTOR SHALL NOT INSTALL WIRE IN ANY PULL BOX UNTIL ITS INSTALLATION HAS BEEN INSPECTED AND ACCEPTED BY THE ENGINEER.

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 AND MAGNETIC LOCATABLE DEVICE.

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 AND LIGHTING SYSTEMS, "WISDOT ITS" FOR COMMUNICATIONS AND ITS EQUIPMENT SYSTEMS.



MEASUREMENT DETAIL FOR WIRE/CABLE IN THE PULL BOX

PULL BOXES NON-CONDUCTIVE

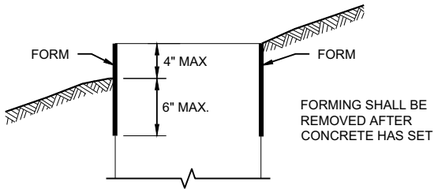
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
November 2024 — DATE
/S/ Ahmet Demirbilek — STATE ELECTRICAL ENGINEER

FHWA

6
SDD 09B16-03

FORM DEPTH SHALL BE NO MORE THAN 6" BELOW GRADE ON THE LOWER SIDE OF BASE



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 DRAWINGSHALL 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 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 A THE ENTRANCE OF THE BASE.

ENDS OF CONDUIT INSTALLED BELOW GRADE FRO FUTURE USE SHALL BE CAPPED IF METALLIC OR PLUGGED IF NON-METALLIC.

MINIMUM BENDING RADIUS OF CONDUIT IS EQUAL TO 6X 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 NON-METALLIC IMMEDIATELY AFTER PLACEMENT AND BEFORE CONCRETE IS POURED. CONDUITS IN WHICH WIRE OR CABLE IS NOT INSTALLED SHALL REMAIN CAPPED OR PLUGGED.

BELL ENDS SHALL BE INSTALLED ON ALL PVC CONDUIT EXPOSED AT THE TOP OF CONCRETE BASES BEFORE INSTALLATION.

WHEN REQUIRED TO CONNECT NON-METALLIC CONDUIT TO METALLIC CONDUIT, ONLY ADAPTER FITTINGS, U.L. LISTED FOR ELECTRICAL USE, SHALL BE USED.

IF A BASE REQUIRES A DEEP FORM BECAUSE OF LOOSE DIRT OR FILL, THE FORM SHALL BE REMOVED BEFORE BACKFILLING AROUND THE BASE. BACKFILL SHALL BE TAMPED TIGHT AGAINST THE BARE CONCRETE BASE IN LAYERS OF 1 FOOT OR LESS.

A NO. 4 AWG STRANDED COPPER EQUIPMENT GROUNDING CONDUCTOR SHALL BE EXOTHERMICALLY WELDED TO THE EQUIPMENT GROUNDING ELECTRODE (GROUND ROD) FOR TYPE 2, TYPE 5 AND TYPE 6 BASES.

THE EQUIPMENT GROUNDING CONDUCTOR SHALL BE FURNISHED AND INSTALLED TO ENTER ALL BASE TYPES 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.

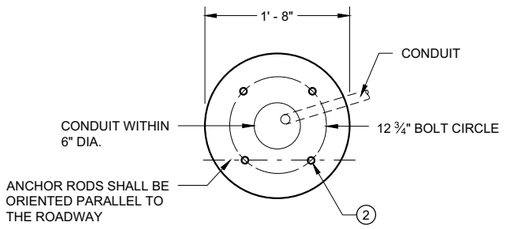
WASHERS AND LOCK WASHERS ARE REQUIRED ON ALL ANCHOR RODS.

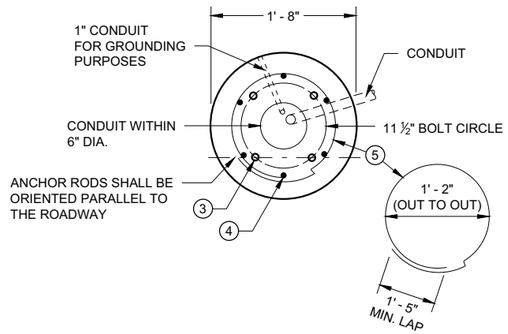
WHEN ANCHOR RODS USING THE ALTERNATE "L" BEND ARE FURNISHED, THE 4 INCH"L" BEND SHALL BE IN ADDITION TO THE SPECIFIED ANCHOR ROD BAR LENGTH. THE "L" BEND SHALL NOT BE THREADED.

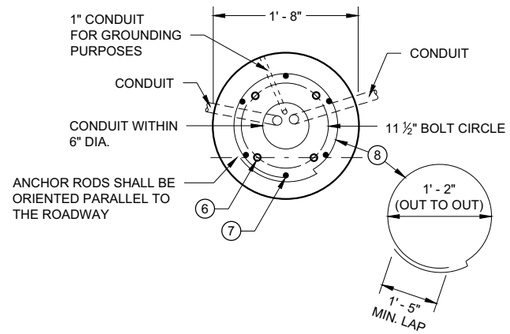
ANCHOR RODS SHALL BE INSTALLED WITH MISALIGNMENTS OF LESS THAN 1:40 FROM VERTICAL.

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 OF 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 STELL REINFORCEMENT @ 1' - 0" C -C.

9 EXOTHERMIC CONNECTION TO EUIPMENT GROUNDING CONDUCTOR

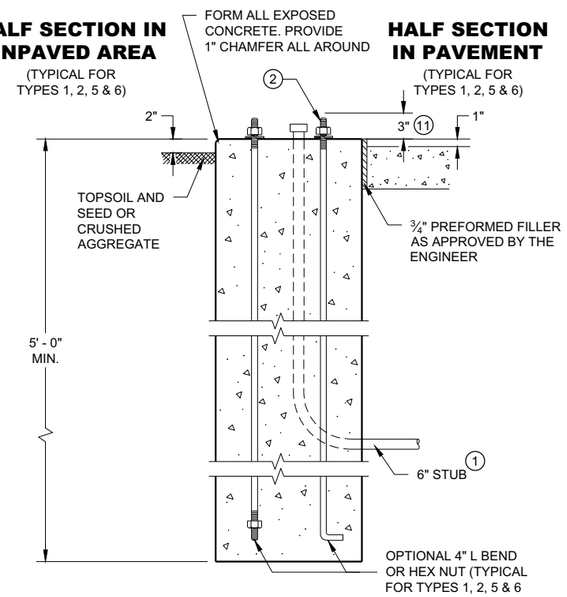
10 ⅝" DIA. X 8' -0" COPPERCLAD EQUIPMENT GROUNDING ELECTRODE REQUIRED

11 ANY ANCHOR ROD PROJECTION SHORTER THAN 2 ¾" OR LONGER THAN 3 ¼" SHALL REQUIRE THE BASE TO BE REMOVED AND REPLACED AT THE CONTRACTORS EXPENSE.

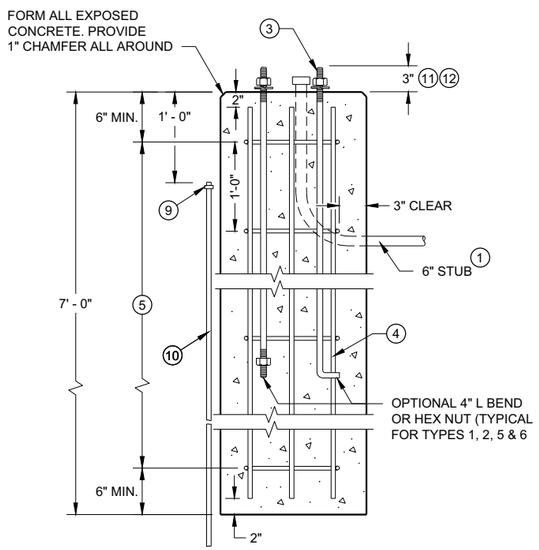
12 FOR NON - BREAKAWAY INSTALLATIONS, 4 ½" ± ANCHOR ROD PROJECTION WITH THE USE OF LEVELING NUTS. RODENT SCREEN REQUIRED.

HALF SECTION IN UNPAVED AREA
(TYPICAL FOR TYPES 1, 2, 5 & 6)

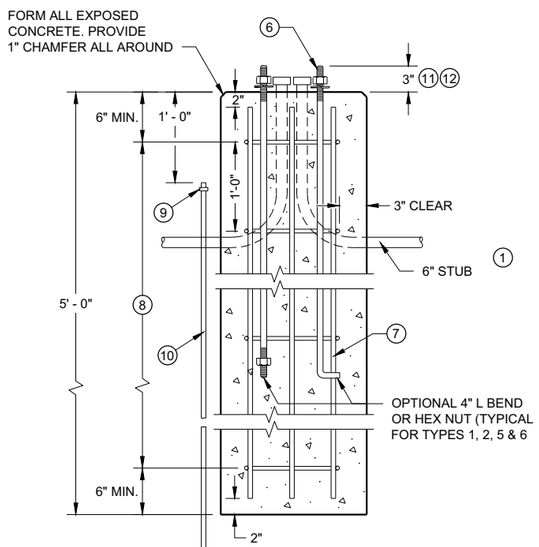
HALF SECTION IN PAVEMENT
(TYPICAL FOR TYPES 1, 2, 5 & 6)



TYPE 1



TYPE 2



TYPE 5 & 6

CONCRETE BASES

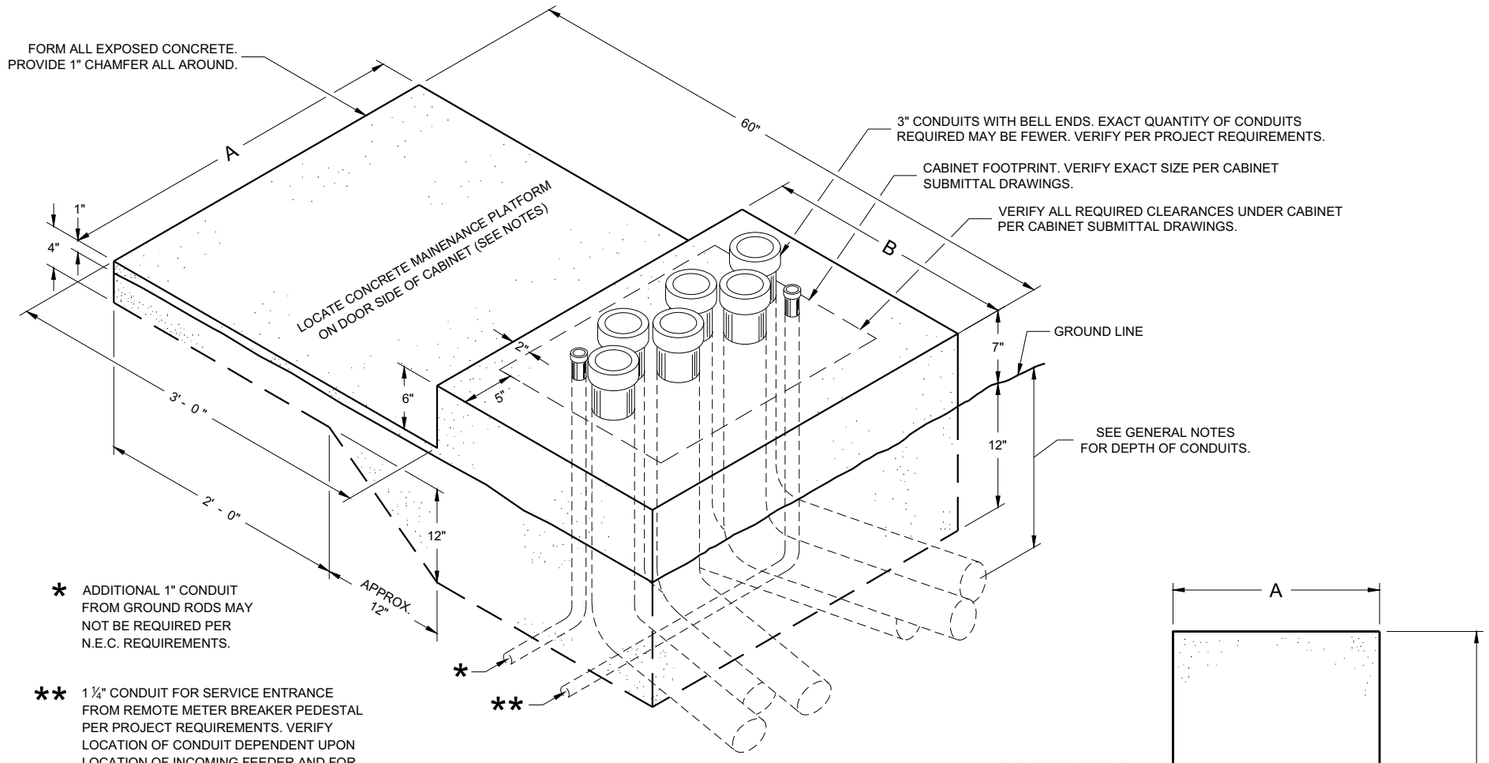
CONCRETE BASES
TYPES 1, 2, 5, & 6

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
May 2019
DATE
/S/ Ahmet Demirbilek
STATE ELECTRICAL ENGI

FHWA

6
SDD 09C02 - 09



* ADDITIONAL 1" CONDUIT FROM GROUND RODS MAY NOT BE REQUIRED PER N.E.C. REQUIREMENTS.

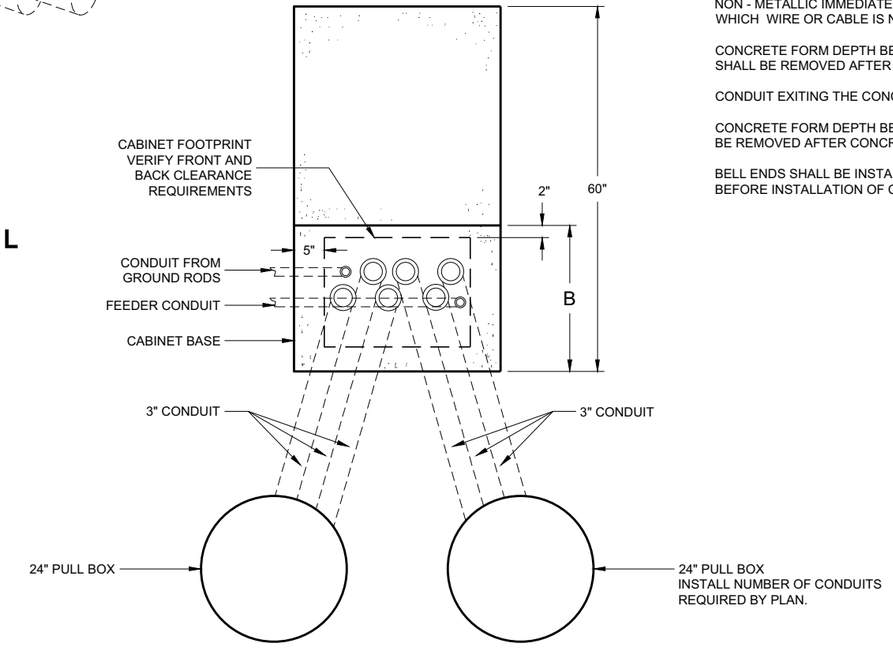
** 1 ¼" CONDUIT FOR SERVICE ENTRANCE FROM REMOTE METER BREAKER PEDESTAL PER PROJECT REQUIREMENTS. VERIFY LOCATION OF CONDUIT DEPENDENT UPON LOCATION OF INCOMING FEEDER AND FOR EASE OF CONNECTION TO LOAD CENTER.

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 NON - METALLIC 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.

LOCATIONS SHALL BE AS SHOWN ON THE PLANS UNLESS DETERMINED BY THE ENGINEER IN THE FIELD.

CONTROL CABINET BASE TOP SURFACE SHALL BE TROWEL FINISHED SMOOTH AND LEVEL.

MAINTENANCE PLATFORM SHALL BE FLOAT OR BROOM FINISHED AND LEVEL.

MAINTENANCE PLATFORMS ARE NOT REQUIRED WHEN THE SURROUNDING AREA IS PAVED.

MINIMUM BENDING RADIUS OF CONDUIT EQUALS 6 TIMES 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 NON - METALLIC 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 NON - METALLIC IMMEDIATELY AFTER PLACEMENT AND BEFORE CONCRETE IS POURED. CONDUITS IN WHICH WIRE OR CABLE IS NOT BEING INSTALLED SHALL REMAIN CAPPED OR PLUGGED.

CONCRETE FORM DEPTH BELOW FINISHED GRADE SHALL BE 6 INCHES MAXIMUM. CONCRETE FORMS SHALL BE REMOVED AFTER CONCRETE HAS SET.

CONDUIT EXITING THE CONCRETE BASE SHALL TERMINATE IN PULL BOXES AS SHOWN ON THE PLANS.

CONCRETE FORM DEPTH BELOW FINISHED GRADE SHALL BE 6 INCH 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
November 2018
DATE

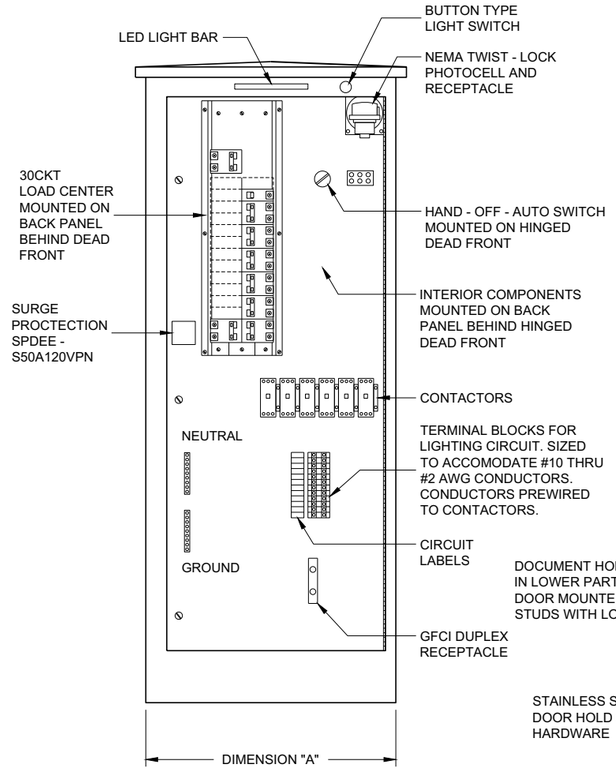
/S/ Ahmet Demirbilek
STATE ELECTRICAL ENGI

FHWA

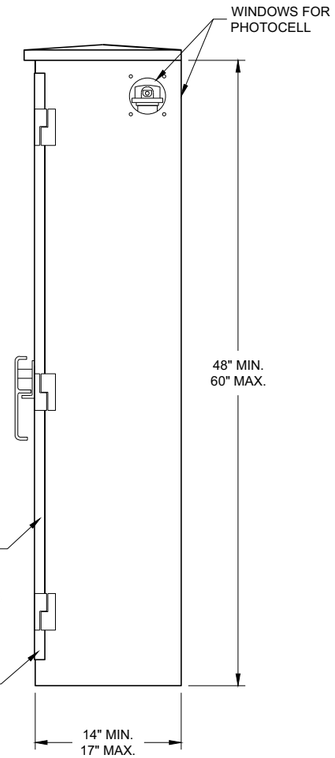
SDD 09C14 - 03

SDD 09C14 - 03

FRONT INTERIOR ELEVATION



SIDE VIEW



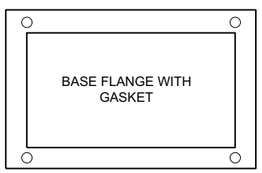
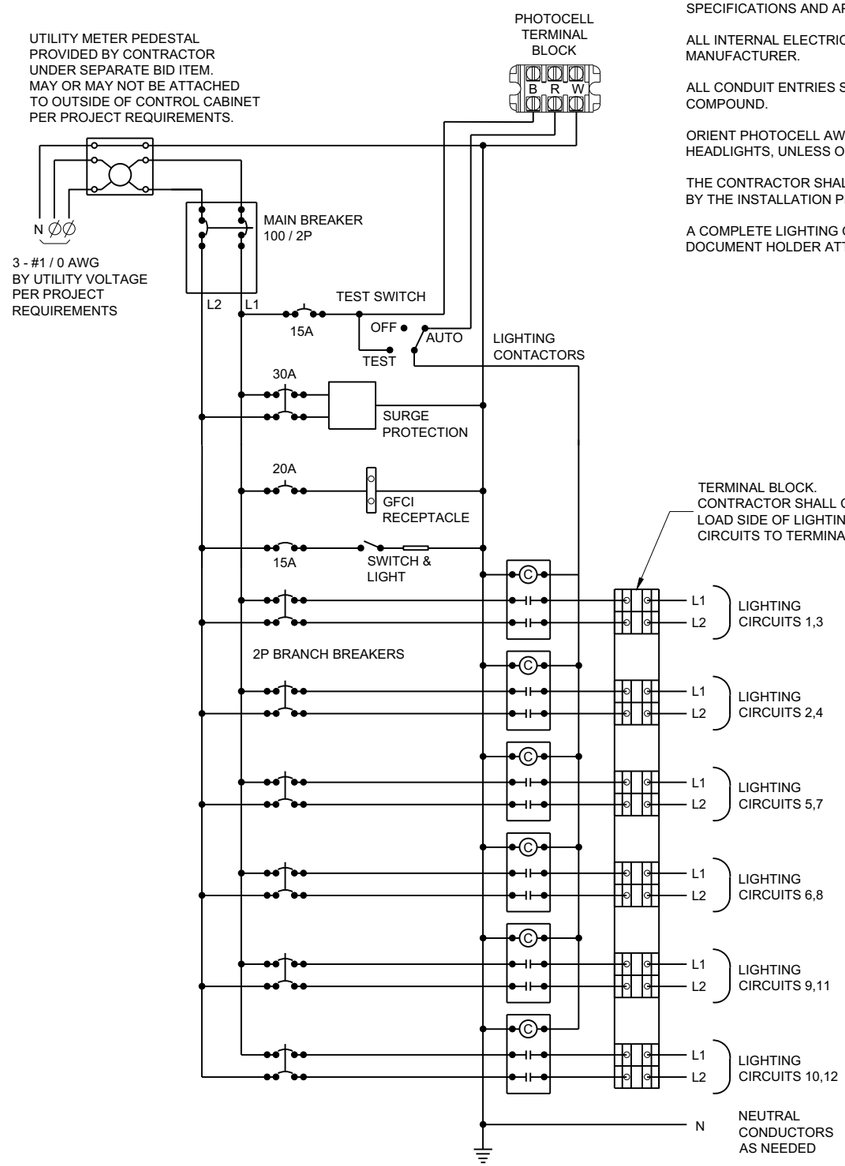


TABLE OF DIMENSIONS (INCHES)		
CONCRETE BASE TYPE	CABINET WIDTH	DIMENSION "A"
L24	24"	24"
L30	30"	30"

LIGHTING CONTROL CABINET



CONTROL CABINET SCHEMATIC

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.

ALL INTERNAL ELECTRICAL COMPONENTS WILL BE PRE - WIRED BY THE CABINENT MANUFACTURER.

ALL CONDUIT ENTRIES SHALL BE SEALED WITH AN APPROPRIATE DUCT SEALING COMPOUND.

ORIENT PHOTOCELL AWAY FROM AMBIENT LIGHT SOURCES AND ONCOMING TRAFFIC HEADLIGHTS, UNLESS OTHERWISE CALLED FOR IN THE SPECIAL PROVISION.

THE CONTRACTOR SHALL TOUCH UP ANY DAMAGE TO THE ANODIZED FINISH CAUSED BY THE INSTALLATION PROCESS. COLOR MATCH PAINT SHALL BE USED.

A COMPLETE LIGHTING OR ELECTRICAL PLAN SHALL BE SECURELY PLACED IN THE DOCUMENT HOLDER ATTACHED TO THE DOOR.

LIGHTING CONTROL CABINET
120 / 240 VOLT

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
November 2018
DATE

/S/ Ahmet Demirbilek
STATE ELECTRICAL ENGI 186

FHWA

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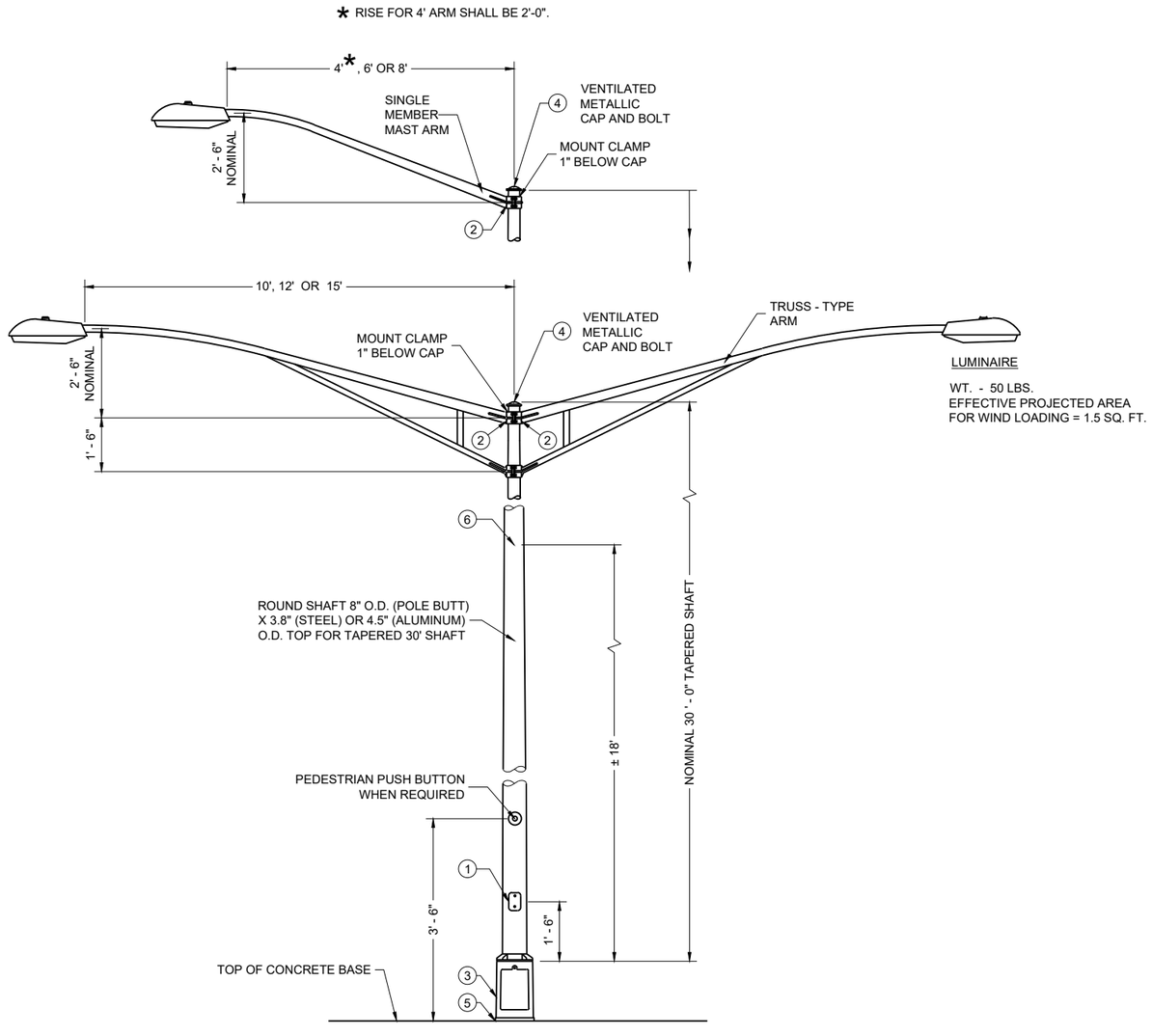
SDD 09D04 - 03



TYPE 5 POLE MOUNTING CONFIGURATION

(MAXIMUM LOAD)

LIGHTING ONLY

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.

SECTION 657, POLES, OF THE STANDARD SPECIFICATIONS SHALL APPLY TO THIS DRAWING.

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.

TYPE 5 ALUMINUM POLES SHALL HAVE A MINIMUM WALL THICKNESS OF 0.1888".

TYPE 5 STEEL POLES SHALL HAVE A MINIMUM WALL THICKNESS OF U.S. STANDARD 11 GAGE (0.1196").

THE SLIPFITTER END OF THE LUMINAIRE MAST ARM SHALL BE A NOMINAL 2 ⅜" INCHES IN OUTSIDE DIAMETER. THE STRAIGHT PORTION OF THE SLIPFITTER END OF THE LUMINAIRE MAST ARM SHALL BE A NOMINAL 12 INCHES IN LENGTH.

WHEN TRANSFORMER BASES ARE USED, WIRE CONNECTIONS SHALL BE MADE IN THE TRANSFORMER BASE.

(1) 4" X 6" REINFORCED HANDHOLE AND COVER ASSEMBLY WITH TWO (2) ¼"X¾" - 20 TPI , STAINLESS STEEL, HEX HEAD BOLTS.

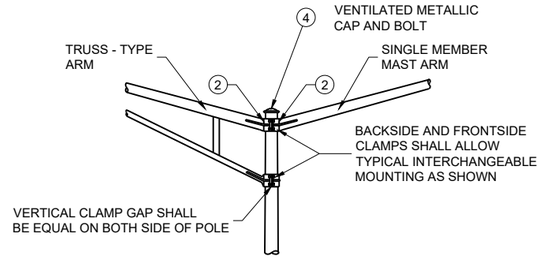
(2) GROMMETS. 1" CHASE NIPPLES OR 1" CLOSE CONDUIT NIPPLES WITH BUSHINGS SHALL BE PROVIDED FOR 1 ⅜" HOLE IN POLE SHAFT FOR WIRING.

(3) CAST ALUMINUM TRANSFORMER BASE.

(4) FURNISH AND INSTALL VENTILATED, CAST METALLIC (ALUMINUM ALLOY) CAPS. FASTEN CAPS WITH ¼"X¾" - 20 TPI STAINLESS STEEL, HEX HEAD BOLT. ONE (1)

(5) SHIMMING, IF NEEDED, SHALL BE LOCATED BETWEEN THE CONCRETE FOUNDATION AND POLE.

(6) INTERNAL DUMBBELL - TYPE VIBRATION DAMPER.



INTERCHANGEABLE MOUNTING DETAIL

POLE MOUNTINGS FOR LIGHTING UNITS, TYPE 5 (30 FEET)

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

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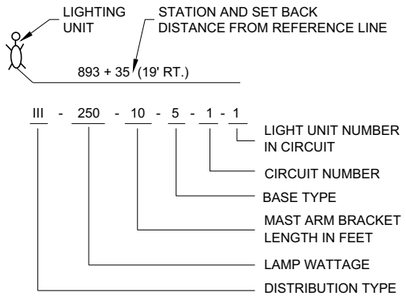
SDD 09E01-16d

GENERAL NOTES

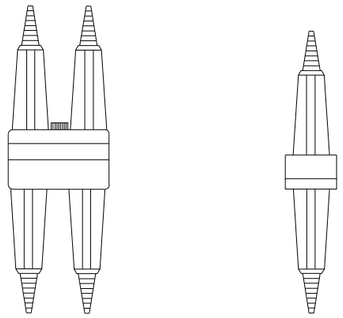
DETAILS OF CONSTRUCTION, MATERIALS AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE CONTRACT.

THE EQUIPMENT GROUND CONNECTOR SHALL BE TAPED WITH 3 WRAPS (MINIMUM) OF APPROVED RUBBER TAPE AND 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.

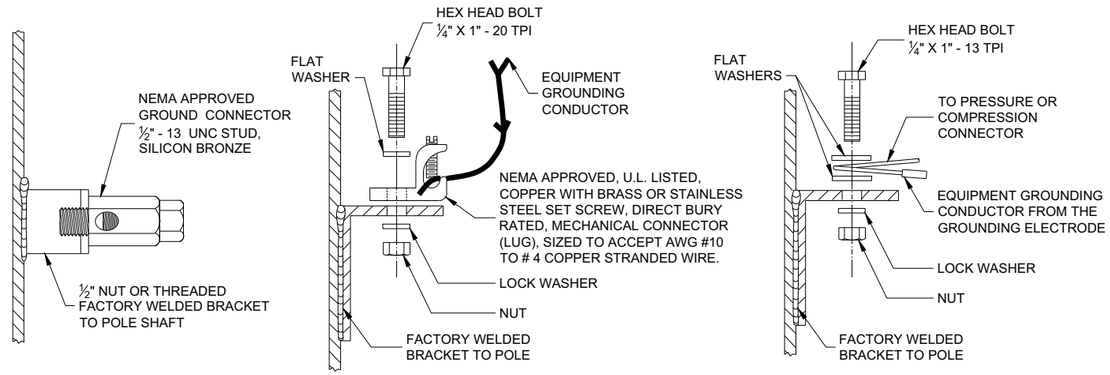


LIGHTING UNIT CODE
(TYPICAL)

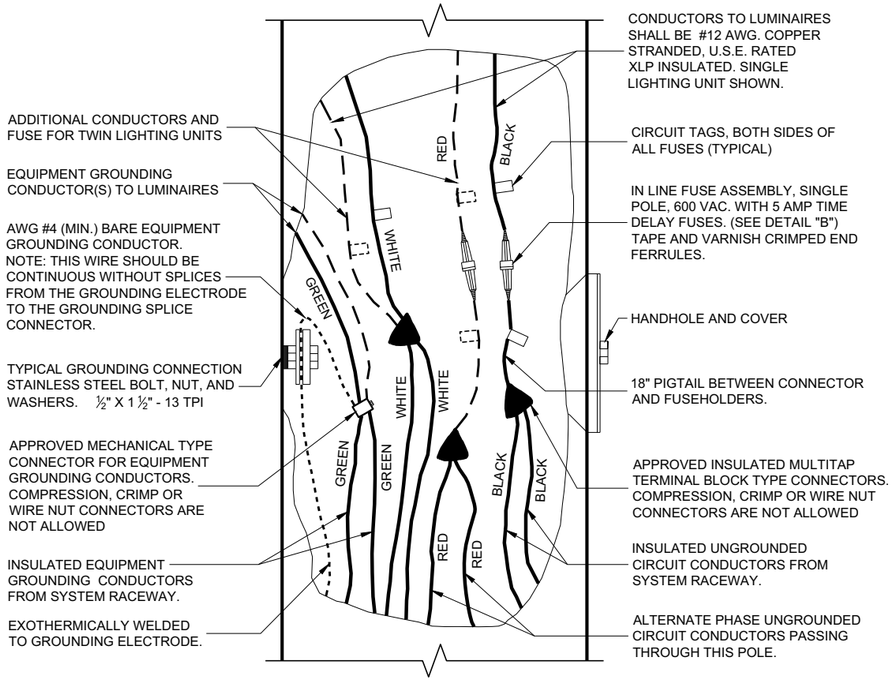


DETAIL "A"
BREAKAWAY DOUBLE POLE WITH WATERPROOF INSULATING BOOT

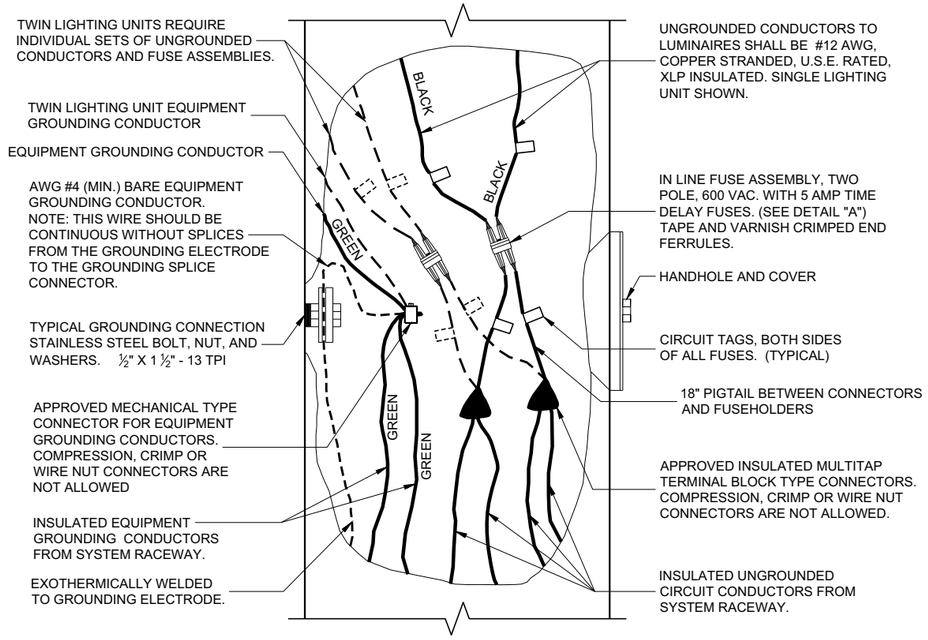
DETAIL "B"
BREAKAWAY SINGLE POLE WITH WATERPROOF INSULATING BOOT



TYPICAL GROUNDING CONNECTIONS
NUT, BOLT AND WASHERS SHALL BE STAINLESS STEEL



3 WIRE - 120, 240 OR 480 VAC (UNGROUNDED CONDUCTORS) WITH GROUNDING CONDUCTOR AND EQUIPMENT GROUNDING CONDUCTOR



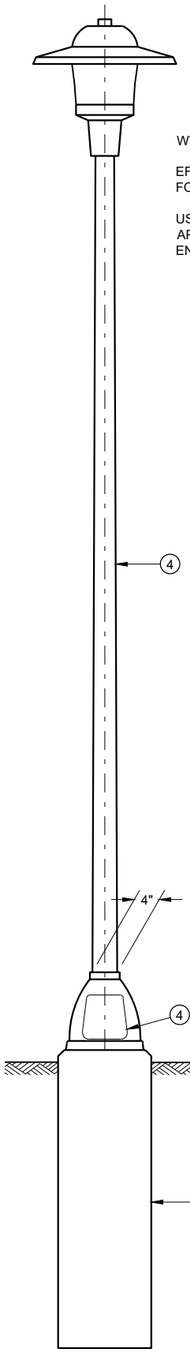
2 WIRE - 240 OR 480 VAC (UNGROUNDED CONDUCTORS) WITH EQUIPMENT GROUNDING CONDUCTOR

NON - FREEWAY LIGHTING UNIT POLE WIRING

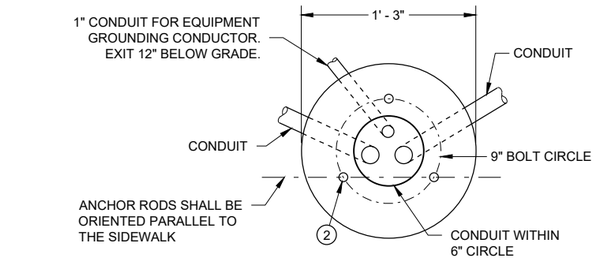
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

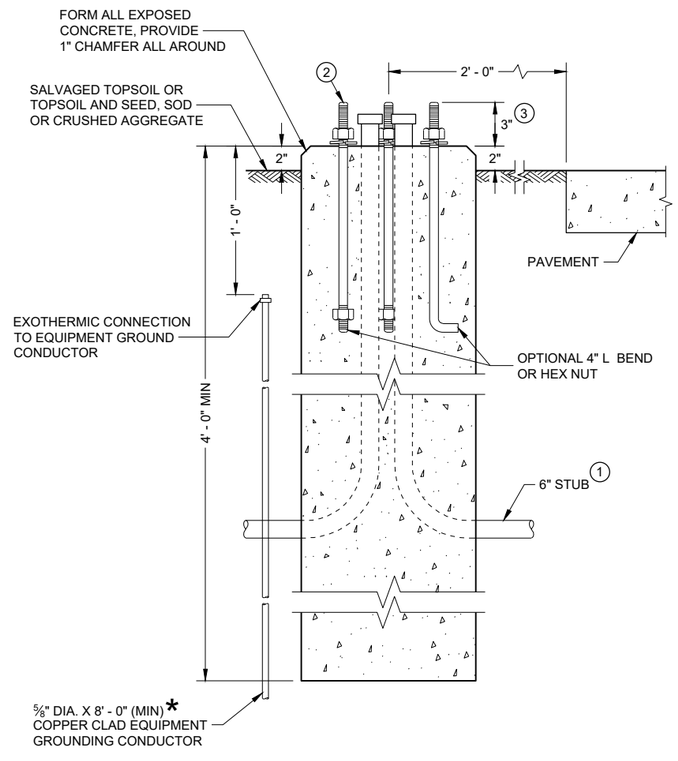
APPROVED
November 2018
DATE
/S/ Ahmet Demirbilek
STATE ELECTRICAL ENGI 188

FHWA



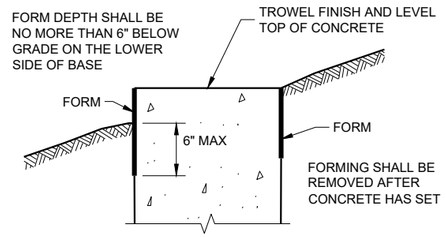
WALKWAY LIGHTING UNIT DETAIL



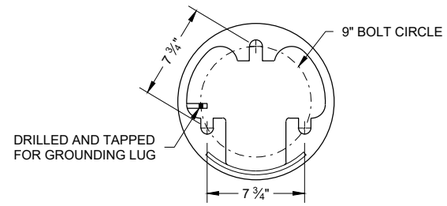


* GROUNDING ELECTRODE LENGTH MAY VARY, SEE SPECIAL PROVISIONS

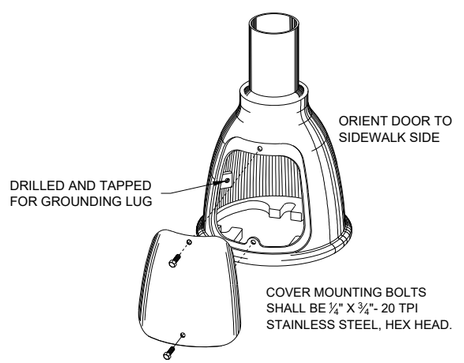
CONCRETE BASE, TYPE 11



FORMING DETAIL



BOTTOM VIEW



WALKWAY PEDESTAL BASE, STANDARD DETAIL

GENERAL NOTES

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

BASES (SHAFT) SHALL BE EXCAVATED BY THE USE OF A CIRCULAR AUGER. IF BASE REQUIRES A DEEP FORM BECAUSE OF LOOSE SOIL, THE FORM SHALL BE REMOVED BEFORE BACKFILLING. A STEEL CASING OR CORRUGATED METAL PIPE IS ALLOWED TO REMAIN. BACKFILL SHALL BE TAMPED TIGHT AGAINST THE BASE IN LAYERS OF ONE FOOT OR LESS.

TOP SURFACE OF THE CONCRETE BASE SHALL BE TROWEL FINISHED AND LEVEL.

ANY DAMAGE TO THE CONCRETE BASE AND ANCHOR RODS DURING CONSTRUCTION OPERATIONS SHALL BE REPAIRED AT THE ENGINEER'S DIRECTION, AT THE EXPENSE OF THE CONTRACTOR.

ANCHOR RODS SHALL BE INSTALLED WITH MISALIGNMENTS OF LESS THAN 1:40 FROM VERTICAL.

ORIENT ANCHOR RODS IN FOOTING AND PROVIDE ANCHOR RODS STICK OUT ABOVE TOP OF CONCRETE FOOTING BASE PER THIS SHEET.

ANCHOR RODS SHALL BE ADEQUATELY SUPPORTED IN THE PROPER POSITIONS SO NO MOVEMENT OCCURS DURING CONCRETE PLACEMENT.

FORM ALL EXPOSED CONCRETE CORNERS WITH 1" CHAMFER ALL AROUND. TOP OF THE CONCRETE BASE SHALL BE TROWEL FINISHED AND LEVEL.

CONDUIT RUNS, NUMBER OF CONDUITS IN EACH CONCRETE BASE AND CONDUIT SIZE IS AS SHOWN ON THE PLANS. THE 1-INCH CONDUIT IS USED IN ALL BASES.

MINIMUM BENDING RADIUS OF CONDUIT IS EQUAL TO 6 TIMES THE DIAMETER OF THE CONDUIT.

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 NON-METALLIC IMMEDIATELY AFTER PLACEMENT AND BEFORE CONCRETE IS POURED. CONDUITS IN WHICH WIRE OR CABLE IS NOT INSTALLED SHALL REMAIN CAPPED OR PLUGGED.

BELL ENDS SHALL BE INSTALLED ON ALL PVC CONDUIT EXPOSED AT THE TOP OF CONCRETE BASES BEFORE INSTALLATION OF CABLE OR WIRE.

WHEN REQUIRED TO CONNECT NON-METALLIC CONDUIT TO METALLIC CONDUIT, ONLY ADAPTER FITTINGS, U.L. LISTED FOR ELECTRICAL USE, SHALL BE USED.

A NO. 4 AWG STRANDED COPPER EQUIPMENT GROUNDING CONDUCTOR SHALL BE EXOTHERMICALLY WELDED TO THE EQUIPMENT GROUNDING ELECTRODE (GROUND ROD).

THE EQUIPMENT GROUNDING CONDUCTOR SHALL BE FURNISHED AND INSTALLED TO ENTER THE BASE THROUGH A 1 INCH CONDUIT INSTALLED FOR GROUNDING PURPOSES, LEAVING A 2 FOOT COIL OF WIRE ABOVE THE CONCRETE BASE. THE EQUIPMENT GROUNDING CONDUCTOR SHALL BE NEATLY COILED AND THE COILS TIED TOGETHER.

ENDS OF CONDUIT INSTALLED BELOW GRADE FOR FUTURE USE SHALL BE CAPPED IF METALLIC OR PLUGGED IF NONMETALLIC.

(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 (GREATER THAN 36 INCHES IF INSTALLED IN BREAKER RUN) EXCEPT WITH WRITTEN APPROVAL OF THE ENGINEER.

(2) THREE (3) ¾ INCH DIA. X 15-INCH ANCHOR RODS OR ¾ INCH DIA. X 19-INCH ANCHOR RODS INCLUDING THE 4-INCH "L" BEND. THE "L" BEND SHALL NOT BE THREADED. ANCHOR RODS SHALL BE MANUFACTURED IN ACCORDANCE WITH SECTION 654.2 AND 531.2.2 OF THE STANDARD SPECIFICATIONS.

(3) ANY ANCHOR ROD PROJECTION SHORTER THAN 2 ¾" OR LONGER THAN 3 ¼" SHALL REQUIRE THE BASE TO BE REMOVED AND REPLACED AT THE CONTRACTORS EXPENSE.

(4) PEDESTAL BASE-STANDARD:

THE PEDESTAL BASE-STANDARD SHALL BE A ONE PIECE WELDED UNIT, WITH AN OVERALL HEIGHT OF TEN FEET.

THE POLE SHALL BE ROUND, TAPERED, ALUMINUM WITH A 3-INCH OUTSIDE DIAMETER TOP AND 0.125 INCH WALL THICKNESS.

HE BELL SHAPED BASE SHALL BE 12 ½ INCHES IN DIAMETER AND HAVE A 9-INCH BOLT CIRCLE. ANCHOR RODS SHALL BE INCLUDED WITH THE BASE.

THE ACCESS DOOR OPENING SHALL BE APPROXIMATELY 7 ½ X 5 ¼ X 7 ½ -INCHES.

THE FIXTURE AND PEDESTAL BASE-STANDARD SHALL BE PAINTED WITH AN EARTH COLORED THERMOSET POWDER COAT, ACRYLIC ENAMEL. THE ENAMEL SHALL BE FORMULATED TO SHOW NO APPRECIABLE FADING WITHIN FIVE YEARS.

GROUNDING LUGS (MECHANICAL CONNECTORS) SHALL BE U.L. LISTED BRASS OR COPPER TYPE. CONNECTION HARDWARE SHALL BE STAINLESS STEEL (BOLT, NUT, LOCK WASHER ¼" X ¾" - 20 TPI).

ALL NONMETALLIC CONDUIT CUT ENDS SHALL BE TRIMMED INSIDE AND OUTSIDE TO REMOVE ALL ROUGH EDGES (SEE NEC 347.5)

WALKWAY LIGHTING UNIT AND CONCRETE BASE, TYPE 11

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
September 2014
DATE

/S/ Ahmet Demirbilek
STATE ELECTRICAL ENGI 189

FHWA

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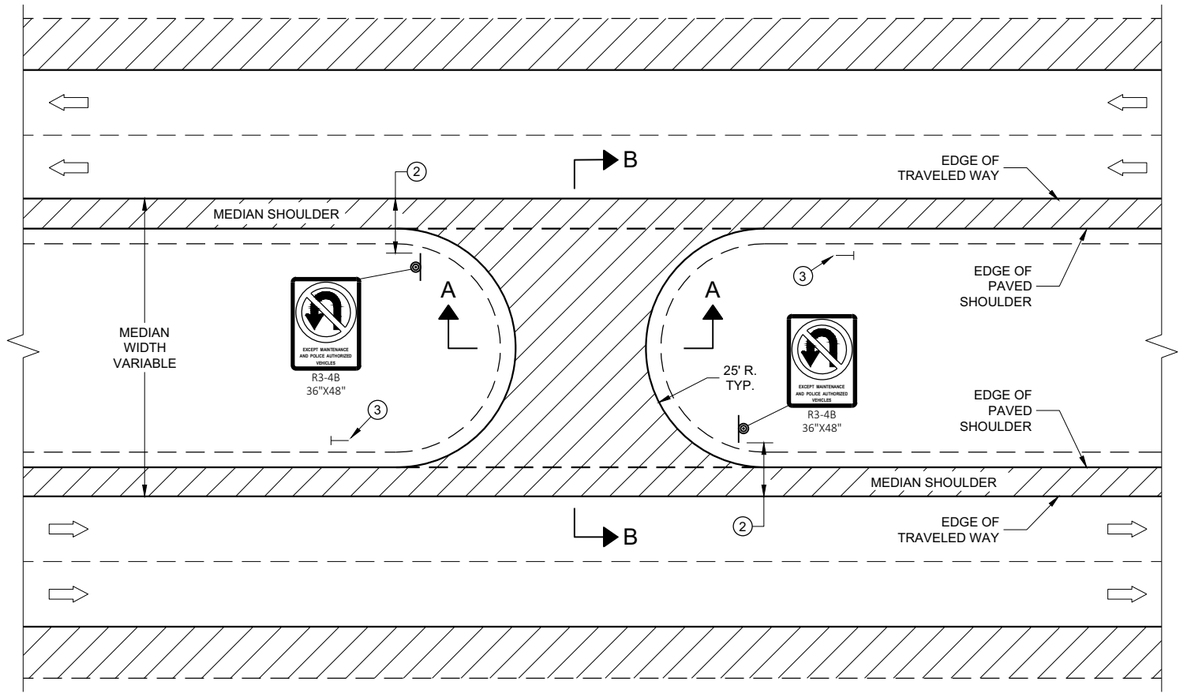
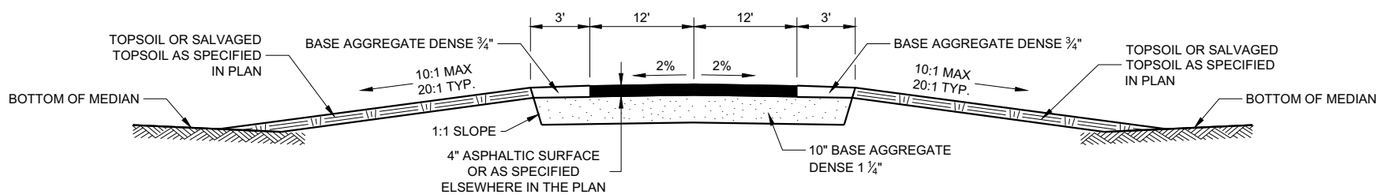
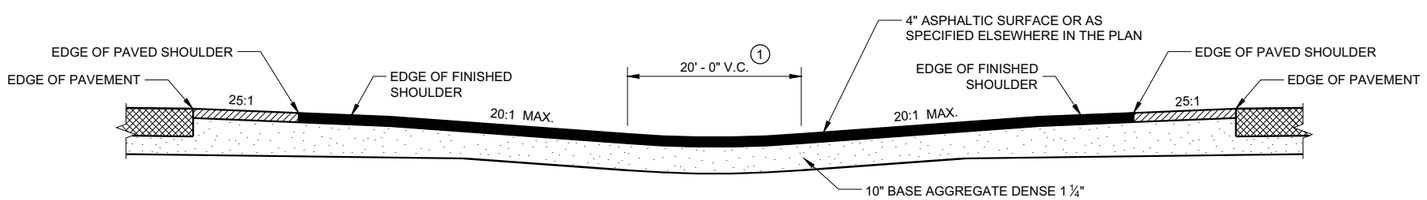
SDD 09E04 - 06



PLAN VIEW



SECTION A-A



SECTION B-B

GENERAL NOTES

1. ADJUST VERTICAL CURVE LOCATION LATERALLY TO MAINTAIN 20:1 MAX.
2. SIGNING DETAILS AND SPECIFICATIONS ARE PROVIDED ELSEWHERE IN THE CONTRACT.
3. INSTALL DELINEATOR. SEE STANDARD DETAIL DRAWING 15A4.

LEGEND

- SIGN ON PERMANENT SUPPORT
- DELINEATOR
- DIRECTION OF TRAFFIC

MAINTENANCE CROSSOVER FOR FREEWAYS

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
November 2019
DATE

/S/ Rodney Taylor
ROADWAY STANDARDS DEVE ENGINEER

FHWA

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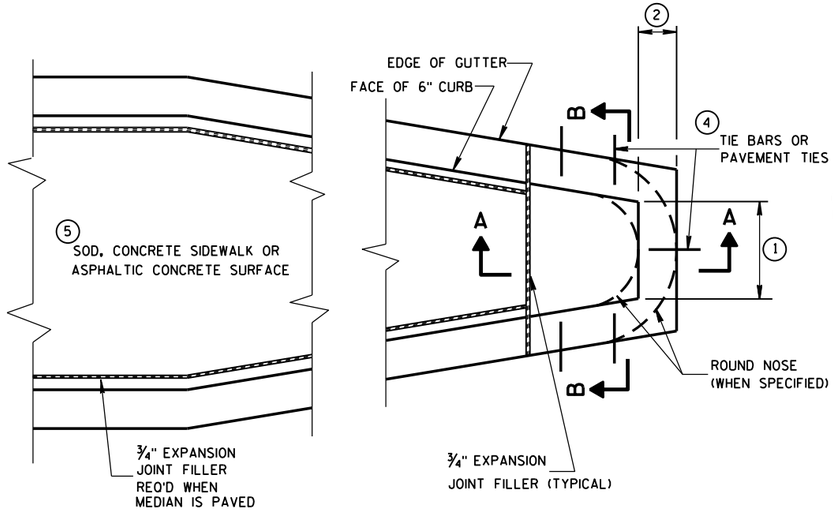
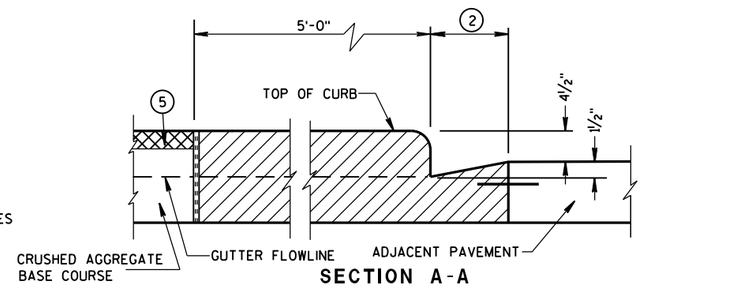
SDD 11A01 - 06





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.

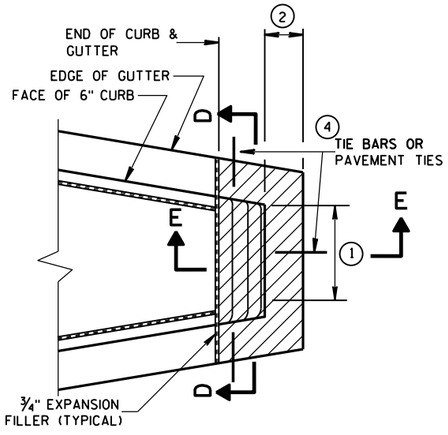
(2) ASPHALTIC CONCRETE PAVEMENT OVER NEW OR EXISTING CONCRETE BASE COURSE.

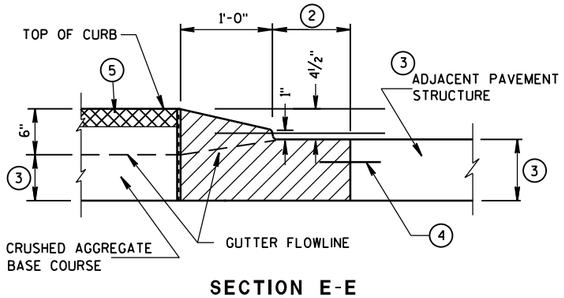
(3) ASPHALTIC CONCRETE PAVEMENT OVER CRUSHED AGGREGATE BASE COURSE.

(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.

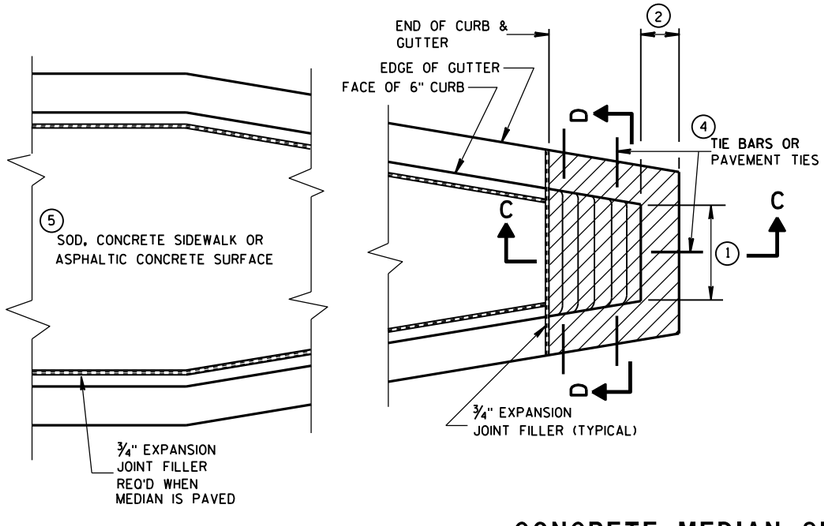
(5) SURFACE TYPE AND DETAILS ARE SHOWN ELSEWHERE IN THE PLAN.

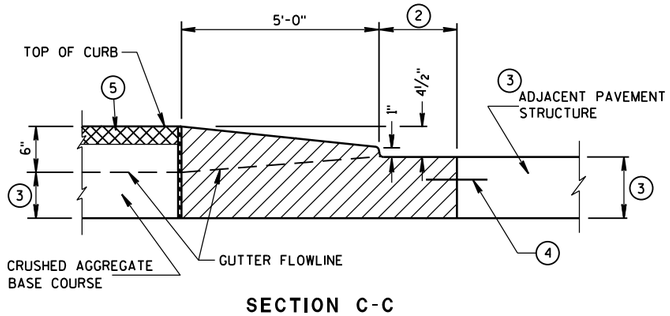




SECTION E-E

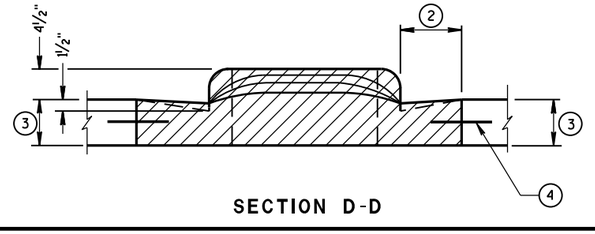
CONCRETE MEDIAN SLOPED NOSE TYPE 2





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

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S.D.D. 11 B 2-2

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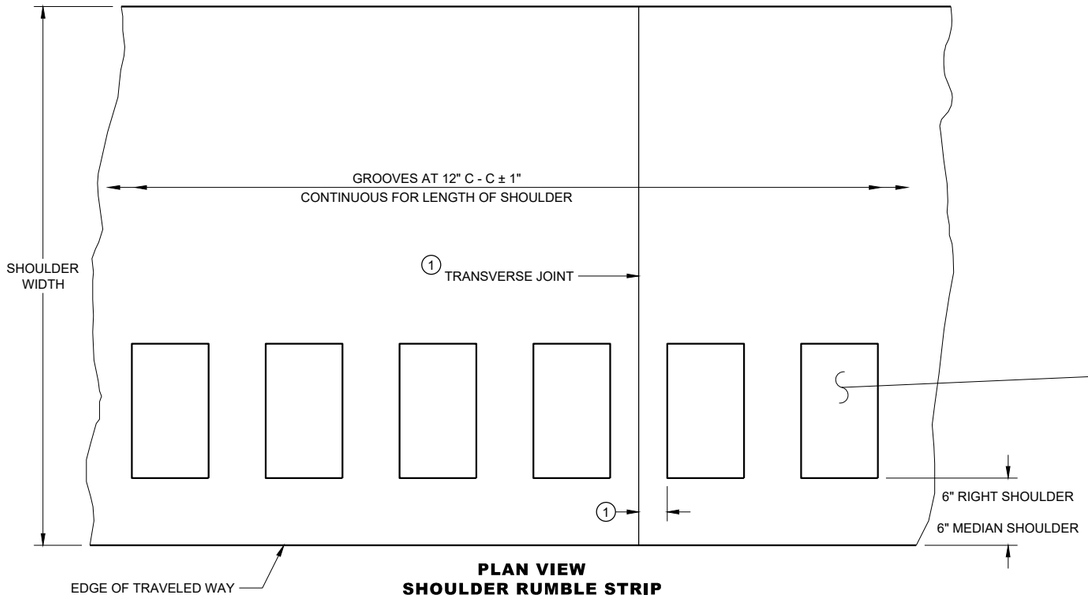
S.D.D. 11 B 2-2

GENERAL NOTES

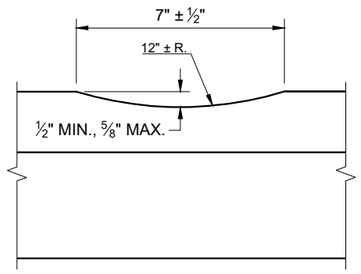
SDD 13A5, SHEET "b" SHOWS THE LOCATION OF THE RUMBLE STRIPS AT RAMP AND GORE LOCATIONS.

RUMBLE STRIPS ON EXPRESSWAYS:
DO NOT INSTALL SHOULDER RUMBLE STRIPS ACROSS SIDE ROAD INTERSECTIONS, COMMERCIAL AND PRIVATE DRIVEWAYS, ADJACENT TO RIGHT TURN LANES, LEFT TURN LANES, TURN LANE TAPERS, 25' IN ADVANCE OF BRIDGE DECKS, 25' IN ADVANCE OF BRIDGE APPROACHES, OR 100 FEET IN ADVANCE OF RAILROAD CROSSINGS.

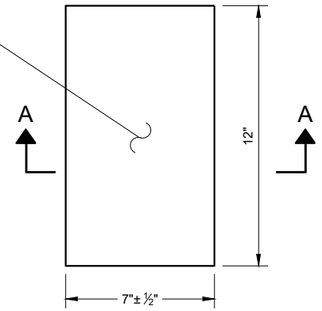
(1) CONCRETE PAVEMENT - RUMBLE STRIPS SHALL BE A MINIMUM OF 6 INCHES AWAY FROM TRANSVERSE JOINTS.



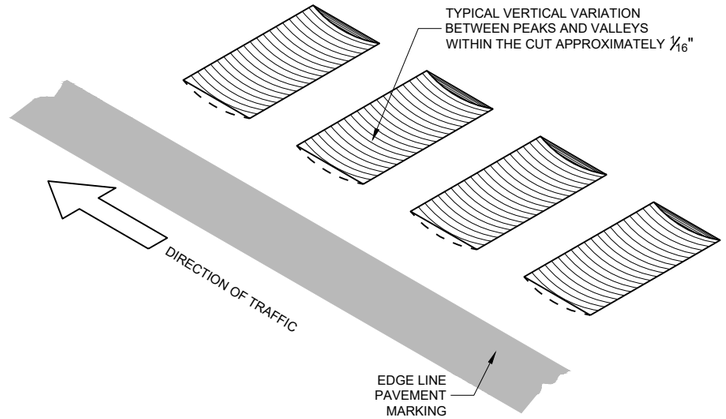
PLAN VIEW
SHOULDER RUMBLE STRIP



SECTION A - A

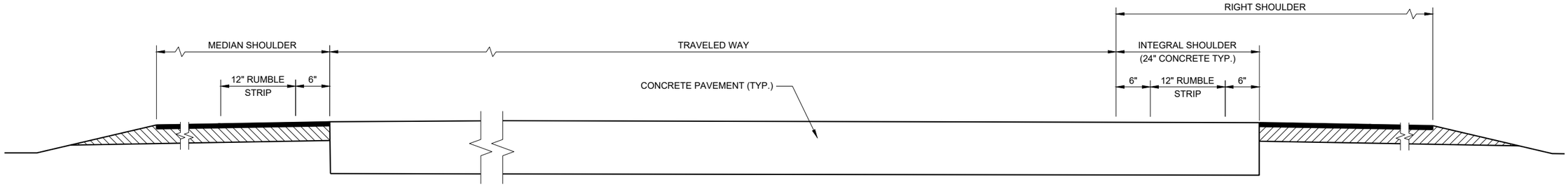


PLAN VIEW
(SINGLE GROOVE)



ISOMETRIC

PLACEMENT DETAIL FOR RUMBLE STRIP



SECTION VIEW

TYPICAL SHOULDER RUMBLE STRIPS
(ONE ROADWAY IS SHOWN)

SHOULDER RUMBLE STRIPS, DIVIDED ROADWAY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

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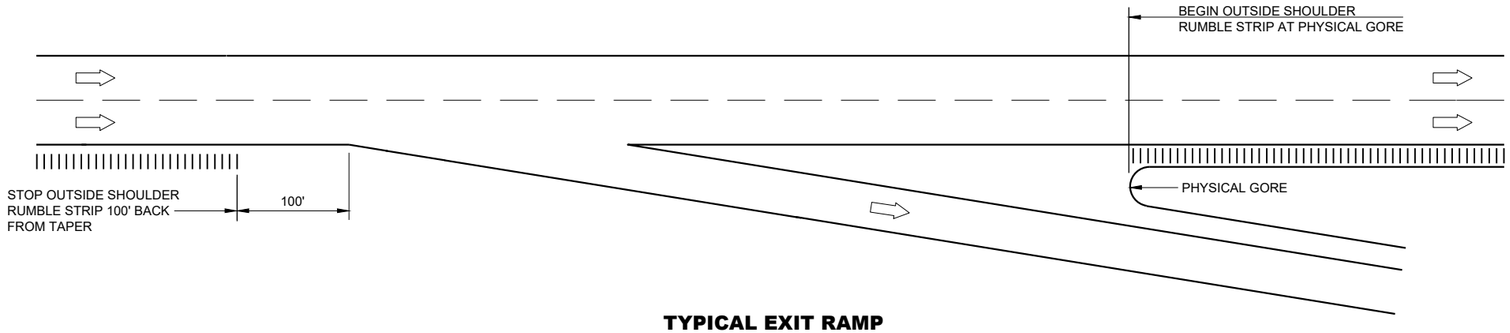
SDD 13A05-06a



TYPICAL EXIT RAMP

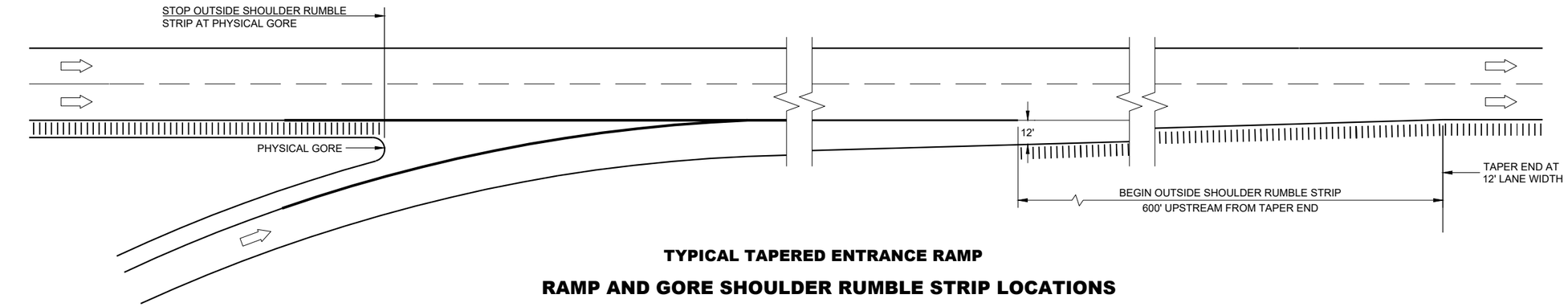
GENERAL NOTES

NO RUMBLE STRIP ON EXIT, DIRECTIONAL OR ENTRANCE RAMPS, EXCEPT NEAR THE ENTRANCE TAPER END AND ALONG THE PARALLEL RAMP AREA AS SHOWN.

RUMBLE STRIPS ON EXPRESSWAYS:
DO NOT INSTALL SHOULDER RUMBLE STRIPS ACROSS SIDE ROAD INTERSECTIONS, COMMERCIALAND PRIVATE DRIVEWAYS, ADJACENT TO RIGHT TURN LANES, LEFT TURN LANES, TURN LANE TAPERS, 25' IN ADVANCE OF BRIDGE DECKS, 25' IN ADVANCE OF BRIDGE APPROACHES, OR 100 FEET IN ADVANCE OF RAILROAD CROSSINGS.

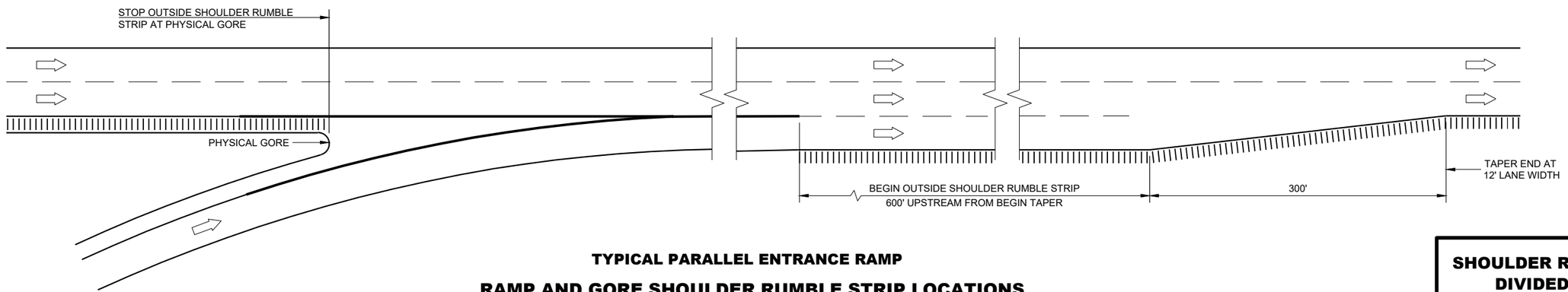
LEGEND

DIRECTION OF TRAFFIC



TYPICAL TAPERED ENTRANCE RAMP

RAMP AND GORE SHOULDER RUMBLE STRIP LOCATIONS



TYPICAL PARALLEL ENTRANCE RAMP

RAMP AND GORE SHOULDER RUMBLE STRIP LOCATIONS

SHOULDER RUMBLE STRIPS, DIVIDED ROADWAY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
May 2023
DATE

/S/ Rodney Taylor
ROADWAY DESIGN STANI
UNIT SUPERVISOR

FHWA

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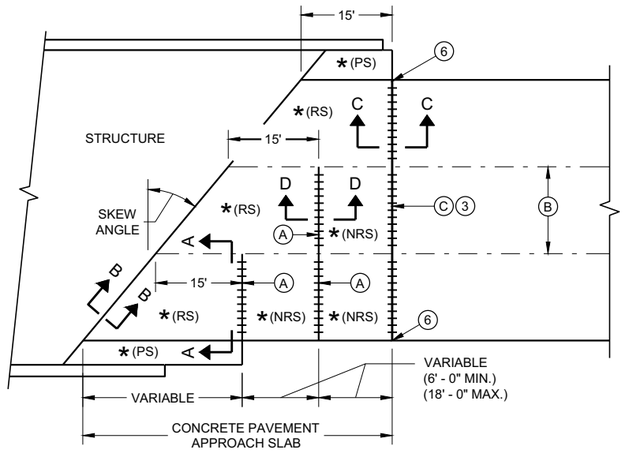
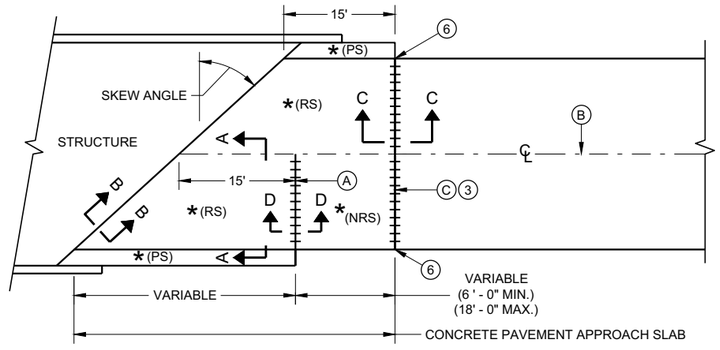
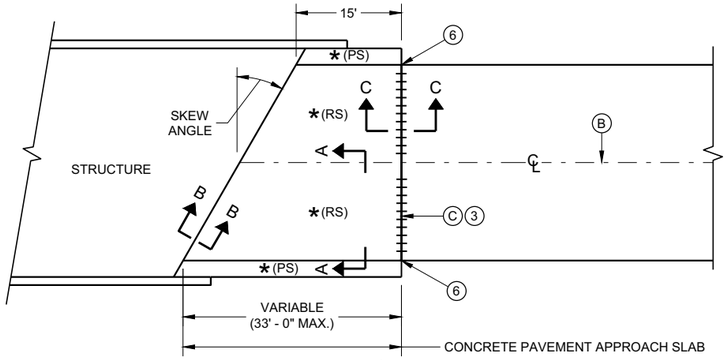
SDD 13A05-06b



SKEWED APPROACH
(PAVEMENT MORE THAN TWO LANES)



SKEWS > 20°
(PAVEMENT WIDTH ≤ 30')



SKEWS ≤ 20°
(PAVEMENT WIDTH ≤ 30')

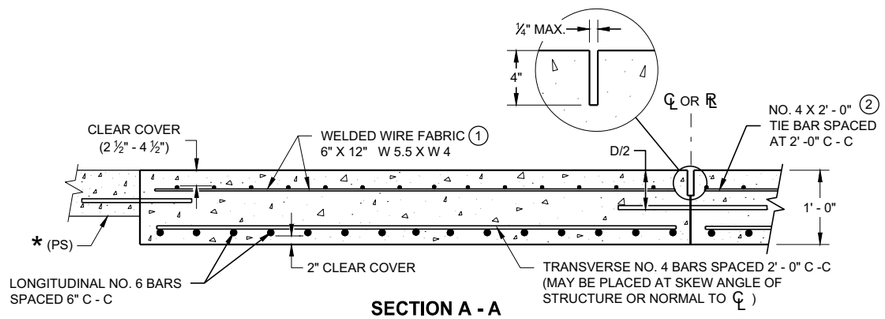
APPROACH SLAB AND ADJACENT PAVEMENT

* (RS) = REINFORCED CONCRETE SLAB

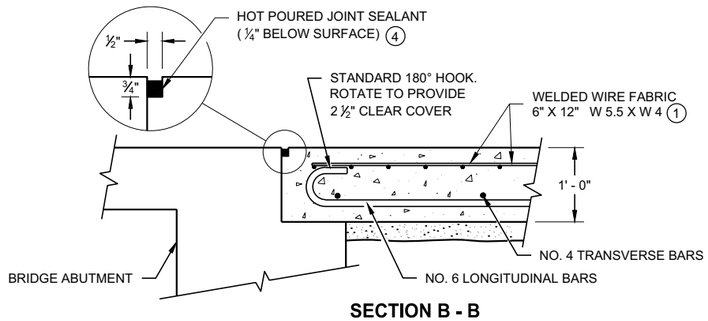
* (PS) = PAVED CONCRETE SHOULDER OR CONCRETE DRAINAGE SLAB

* (NRS) - NON - REINFORCED CONCRETE SLAB

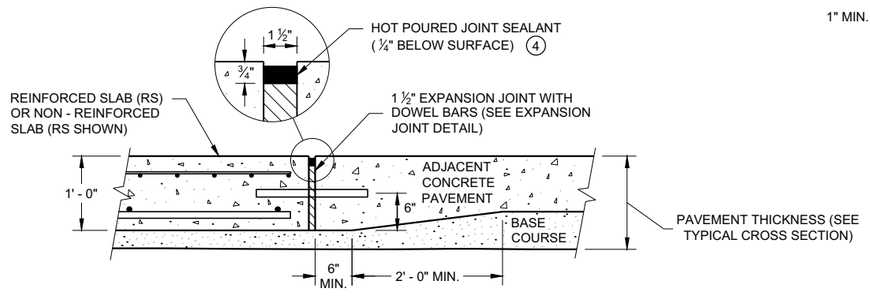
*** STANDARD DOWEL BAR DIAMETER (SEE SDD 13C11 AND SDD 13C13)



SECTION A - A
REINFORCEMENT POSITIONING DETAIL



SECTION B - B
BEND DETAIL
BOTTOM REINFORCEMENT



SECTION C - C
TRANSITION DETAIL
APPROACH SLAB TO ADJACENT PAVEMENT

GENERAL NOTES

THE CONTRACTOR MAY SPLICE NO. 6 BARS IN THE APPROACH SLAB FOR SKEWED STRUCTURES ONLY. STAGGER SPLICES WITH A MAXIMUM OF ONE SPLICE PER BAR. THE LENGTH OF LAP IS 20 INCHES.

TACK WELD DOWEL BARS TO THE BASKETS ON ALTERNATE ENDS.

(1) THE CONTRACTOR MAY USE NO. 4 BARS SPACED AT 2' - 0 " C - C IN BOTH THE LONGITUDINAL AND TRANSVERSE DIRECTIONS FOR TOP REINFORCEMENT AS AN ALTERNATIVE TO THE WELDED WIRE FABRIC.

(2) THE CONTRACTOR MAY OMIT THE BARS BETWEEN REINFORCED SLABS WHERE SLAB REINFORCEMENT BARS EXTEND ACROSS THE CENTERLINE OR REFERENCE LINE.

(3) DO NOT CONSTRUCT AN EXPANSION JOINT OR INSTALL DOWEL BARS WHEN ABUTTING AN HMA PAVEMENT.

(4) USE A JOINT SEALANT CONFORMING TO STANDARD SPECIFICATION 415.2.6.

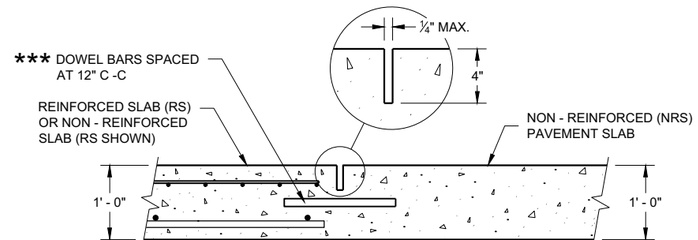
(5) PLACE EXPANSION CAP ON THE END OF THE DOWEL THAT IS NOT TACK WELDED TO THE BASKET. DO NOT FORCE DOWEL BAR PAST THE DOWEL STOP.

(6) EXTEND EXPANSION JOINT THROUGH ANY ADJACENT TIED CONCRETE.

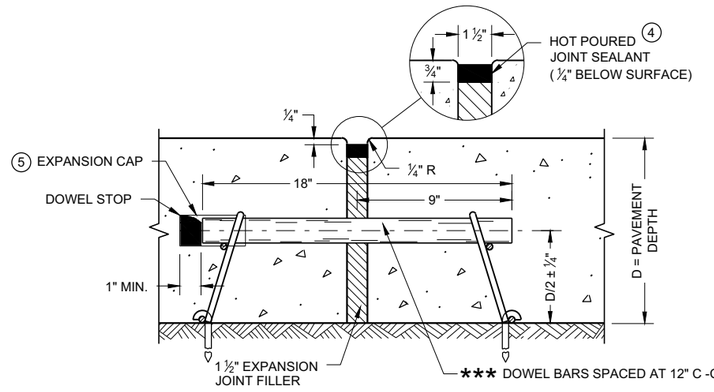
(A) STANDARD CONTRACTION JOINT NORMAL TO ℄ OR ℞.

(B) STANDARD LONGITUDINAL JOINT WITH TIE BARS.

(C) 1 ½" EXPANSION JOINT WITH DOWEL BARS NORMAL TO ℄ OR ℞ .



SECTION D - D
CONTRACTION JOINT



EXPANSION JOINT DETAIL

CONCRETE PAVEMENT APPROACH SLAB

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
November 2018
DATE

/S/ Peter Kemp, P.E.
PAVEMENT SUPERVIS

FHWA

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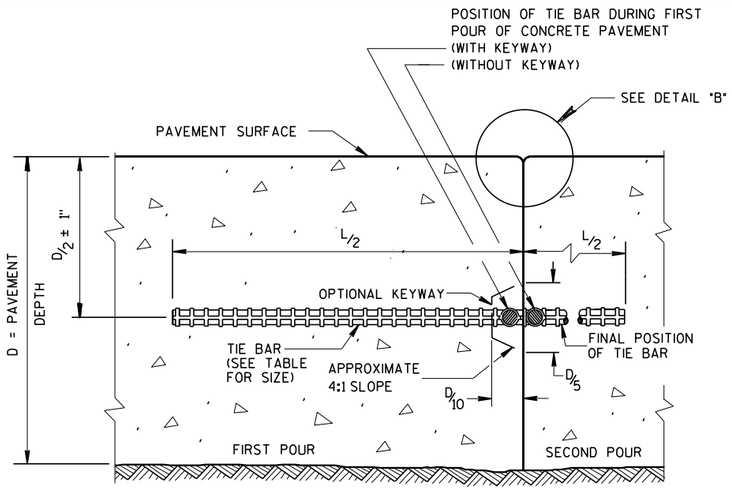
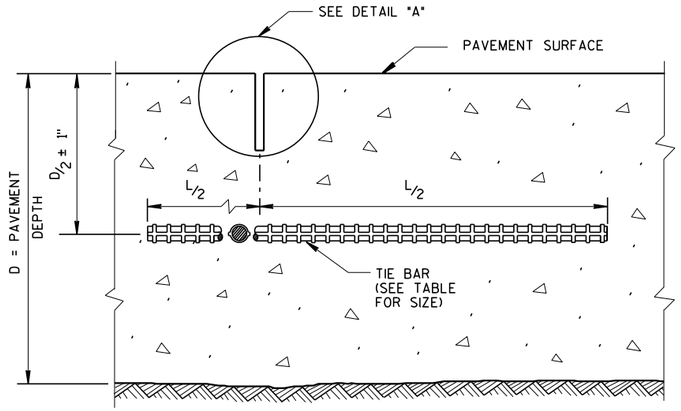
SDD 13B02 - 09a



CONSTRUCTION JOINT



SAWED JOINT

GENERAL NOTES

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
March 2018
DATE
/S/ Peter Kemp, PE
PAVEMENT SUPE
FHWA

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S.D.D. 13 C 1-19

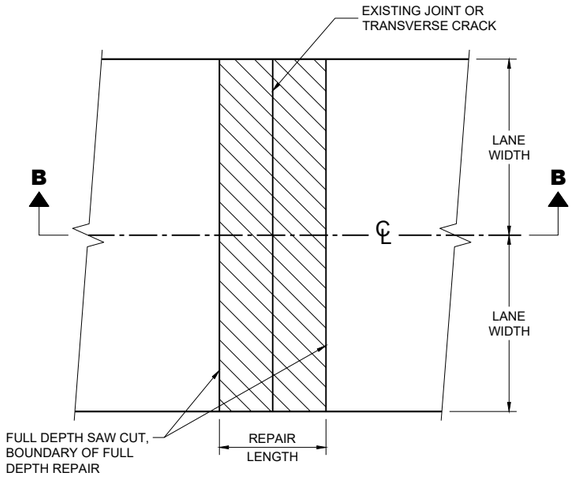
GENERAL NOTES

SAW CUT, DRILL, AND LIFT OUT EXISTING CONCRETE PAVEMENT WITHIN THE BOUNDARIES OF CONCRETE REPAIR AREAS. THE CONTRACTOR MAY MAKE ADDITIONAL SAW CUTS INSIDE THE REPAIR LIMITS TO REDUCE WEIGHT AND SIZE OF CONCRETE PIECES.

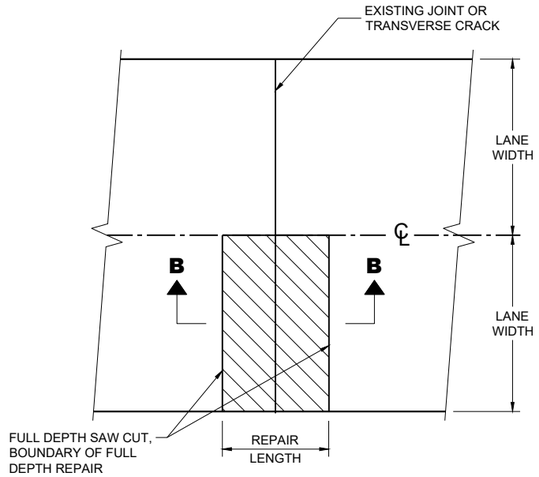
PROVIDE A 6 FOOT MINIMUM DISTANCE FROM BOUNDARIES OF CONCRETE REPAIR AREA TO ADJACENT TRANSVERSE JOINT OR CRACK.

THE LENGTH OF THE REPAIRS MAY VARY FROM THE DIMENSIONS SHOWN IF THE EXISTING CONCRETE PAVEMENT IS NON-DOWELED AND THE PAVEMENT IS TO BE OVERLAID AFTER REPAIRING.

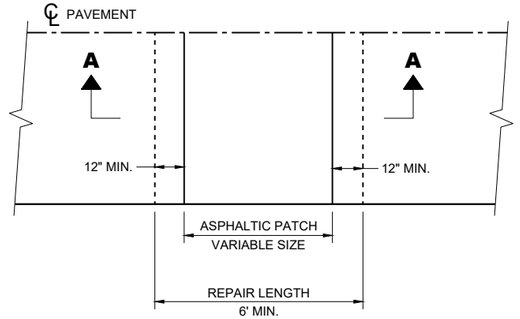
(1) DOWEL BARS MAY NOT BE PRESENT.



PLAN VIEW
(DOUBLE LANE REPAIR)

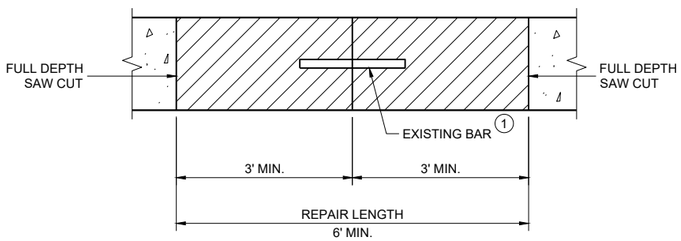


PLAN VIEW
(SINGLE LANE REPAIR)



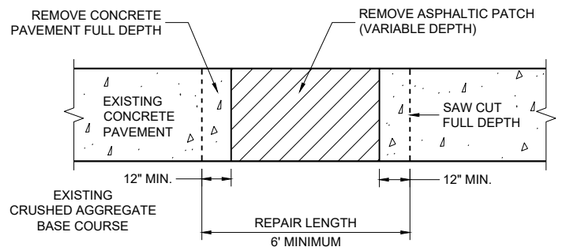
PLAN VIEW

FULL DEPTH CONCRETE PAVEMENT REMOVAL



SECTION B - B

CONCRETE REMOVAL

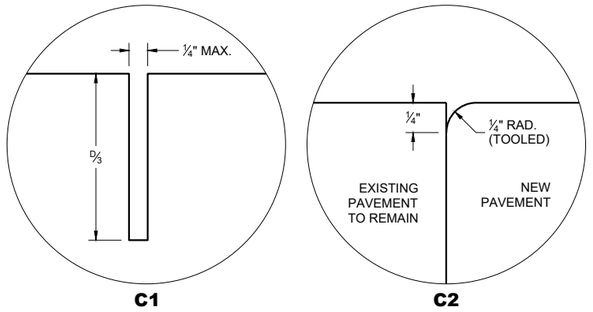


SECTION A - A

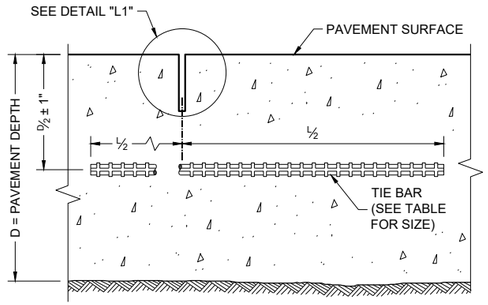
HMA PATCH REMOVAL

CONCRETE PAVEMENT REPAIR AND REPLACEMENT

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

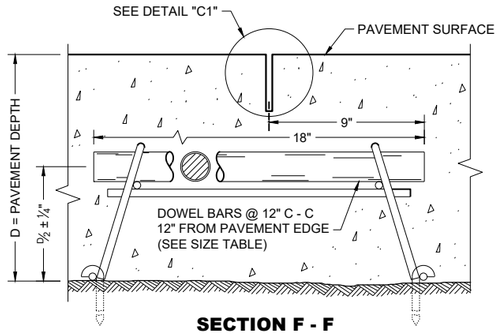


TRANSVERSE JOINTS



SECTION C - C

SAWED LONGITUDINAL JOINT



SECTION F - F

DOWELED CONTRACTION JOINT

GENERAL NOTES

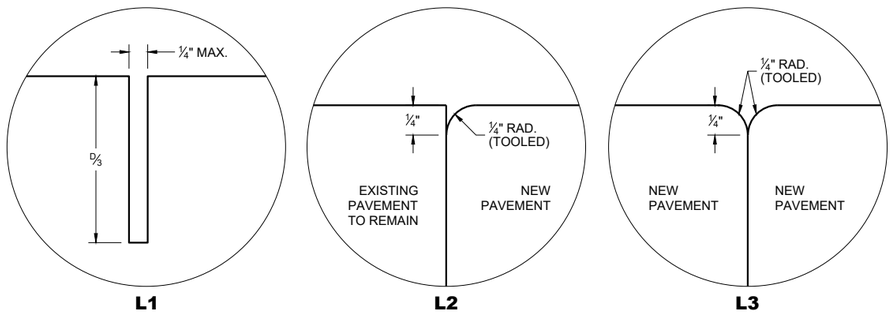
INSTALL DOWEL BARS PARALLEL TO THE PAVEMENT CENTERLINE AND PAVEMENT SURFACE.

CONCRETE PAVEMENT REPAIRS OF EXISTING NON-DOWELED CONCRETE PAVEMENTS DO NOT NEED TO BE DOWELED.

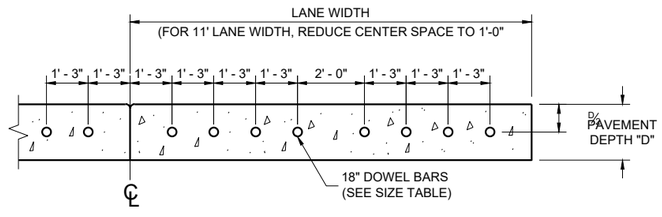
ANCHOR DOWEL BARS AND TIE BARS INTO DRILLED HOLES WITH AN EPOXY.

FOR MULTI-LANE CONCRETE PAVEMENT REPLACEMENTS, PROVIDE A MINIMUM DISTANCE OF 15 INCHES FROM ALL TRANSVERSE JOINTS OR EDGES OF REPLACEMENT TO THE CENTER OF THE TIE BAR NEAREST THAT JOINT OR EDGE.

(1) APPLY A THIN UNIFORM COATING OF SURFACE TREATMENT TO THE FREE END OF DOWEL BARS TO PREVENT BONDING.

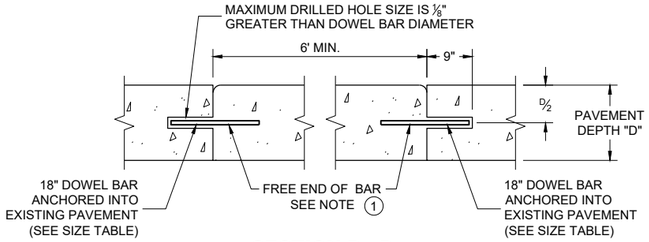


LONGITUDINAL JOINTS



SECTION E - E

DRILLED DOWEL BAR CONSTRUCTION JOINT



SECTION D - D

TIE BAR TABLE

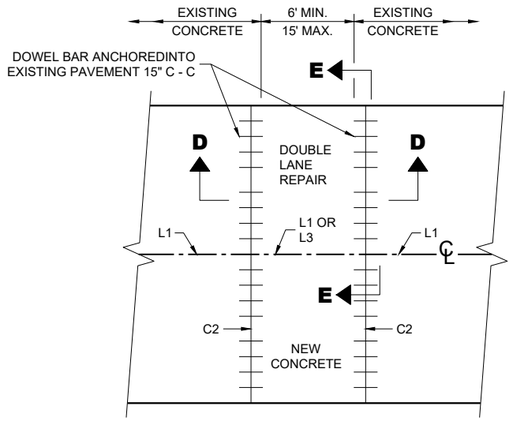
PAVEMENT DEPTH (D)	TIE BAR SIZE	TIE BAR LENGTH (L)	MAX. TIE BAR SPACING
< 10 ½"	NO. 4	30"	36"
≥ 10 ½"	NO. 5	36"	36"
	NO. 4*	30"	24" **

* SUBSTITUTE BENT BARS AT LONGITUDINAL JOINTS WHEN EQUIPMENT LIMITATIONS DURING CONSTRUCTION WARRANT (e.g. AUXILIARY LANES OR TURN LANES)

** CONFORM TO 15" MINIMUM SPACING FROM TRANSVERSE JOINTS; SPACING BETWEEN TIE BARS WILL BE 30" AT TRANSVERSE JOINTS.

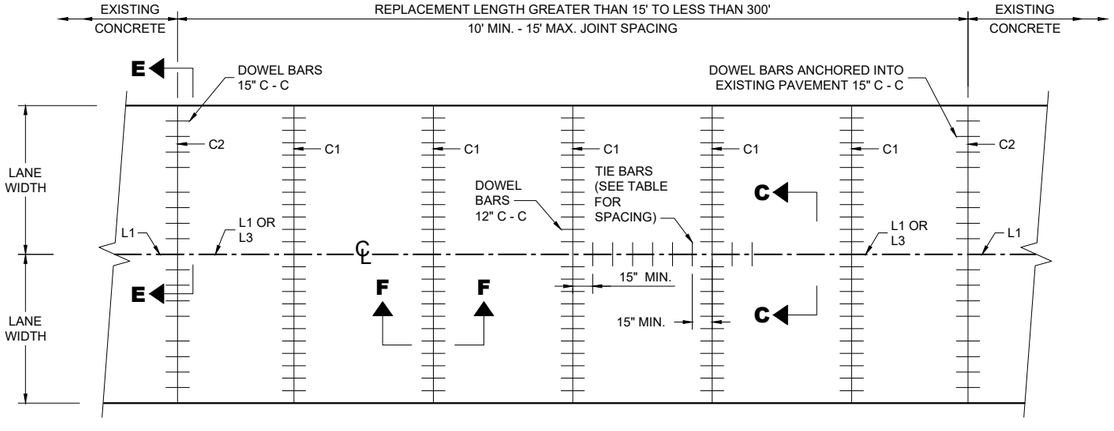
PAVEMENT DEPTH, DOWEL BAR SIZE AND JOINT SPACING TABLE

PAVEMENT DEPTH (D)	DOWEL BAR DIAMETER	DRILLED DOWEL BAR DIAMETER	CONTRACTION JOINT SPACING
6", 6 ½"	NONE	NONE	12'
7", 7 ½"	1"	1"	14'
8" & ABOVE	1 ¼"	1 ¼"	15'



PLAN VIEW

MULTILANE CONCRETE PAVEMENT REPAIR

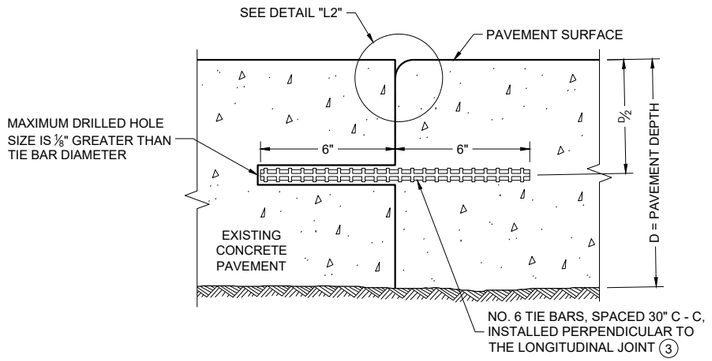


PLAN VIEW

MULTILANE CONCRETE PAVEMENT REPLACEMENT

CONCRETE PAVEMENT REPAIR AND REPLACEMENT

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

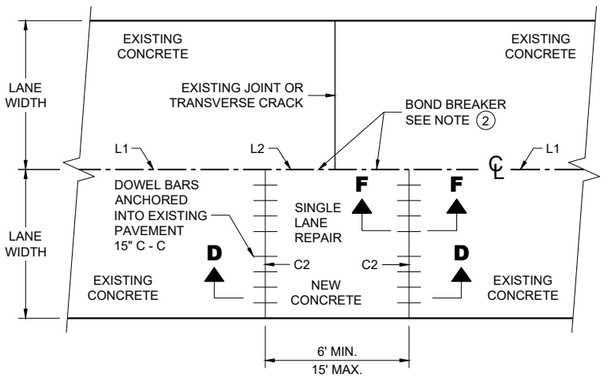


SECTION G - G

TIE BARS ANCHORED INTO EXISTING PAVEMENT

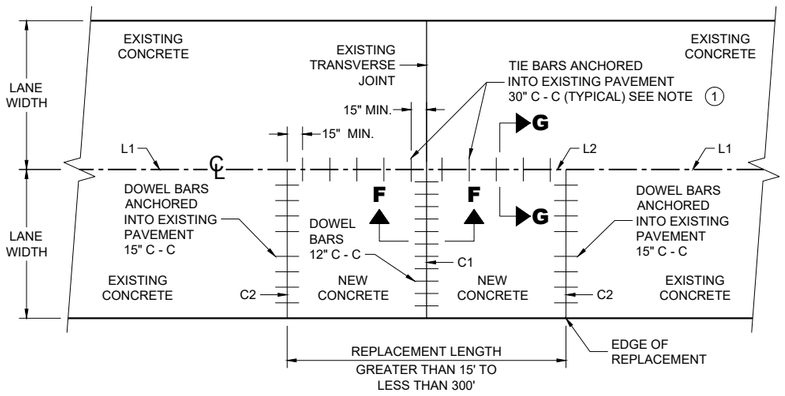
GENERAL NOTES

1. WITH THE APPROVAL OF THE ENGINEER, FOR SINGLE LANE PAVEMENT REPLACEMENTS LESS THAN 30 FEET IN LENGTH, THE CONTRACTOR MAY INSTALL DRILLED TIE BARS ON 6:1 SKEW HORIZONTALLY, DIRECTION OF SKEW ALTERNATING WITH EACH SUCCESSIVE BAR. DRIVE SKEWED TIE BARS TO A DEPTH OF 6 INCHES IN A HOLE OF SUCH A DIAMETER AS TO PROVIDE A TIGHT DRIVEN FIT.
2. USE AN ENGINEER APPROVED BOND BREAKER (E.G. RELEASE AGENT, CURING COMPOUND) FOR SINGLE LANE REPAIRS UP TO 15 FEET IN LENGTH.
3. ANCHOR TIE BARS INTO DRILLED HOLES WITH AN EPOXY.



PLAN VIEW

SINGLE LANE CONCRETE PAVEMENT REPAIR



PLAN VIEW

SINGLE LANE CONCRETE PAVEMENT REPLACEMENT

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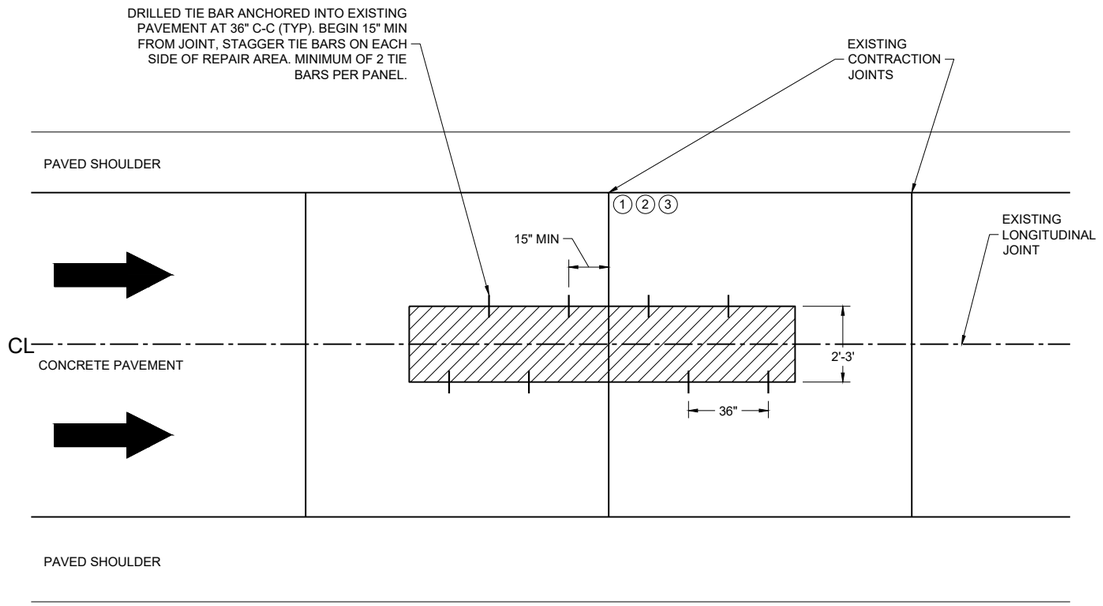
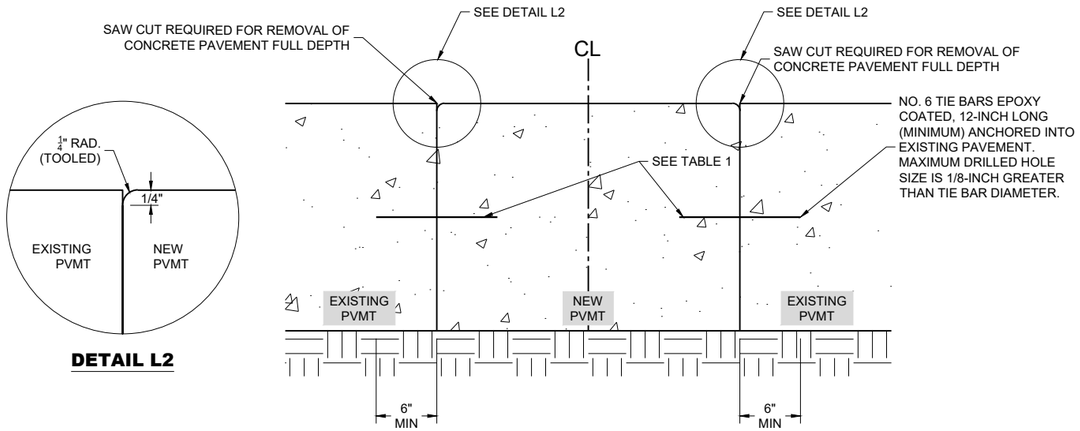
SDD 13C09-18c

CONCRETE REPAIR AND REPLACEMENT

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION



PLAN VIEW



DETAIL L2

SECTION VIEW

GENERAL NOTES

1. TIE BARS MIN 15" FROM JOINT.
2. LOCATION AND WIDTH OF PATCH ARE VARIABLE DEPENDING ON FIELD CONDITION
3. PRESERVE OR REESTABLISH EXISTING CONTRACTION JOINTS, KEEPING PATCH MATERIALS OUT OF REMAINING CONTRACTION JOINT.

TABLE 1	
PATCH WIDTH	TIE BAR LENGTH
24"	12"
36"	18"

CONCRETE PAVEMENT CENTERLINE JOINT REPAIR

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
NOVEMBER 2025 — DATE
/S/ Peter Kemp P.E. — PAVEMENT SUPERVISOR

FHWA

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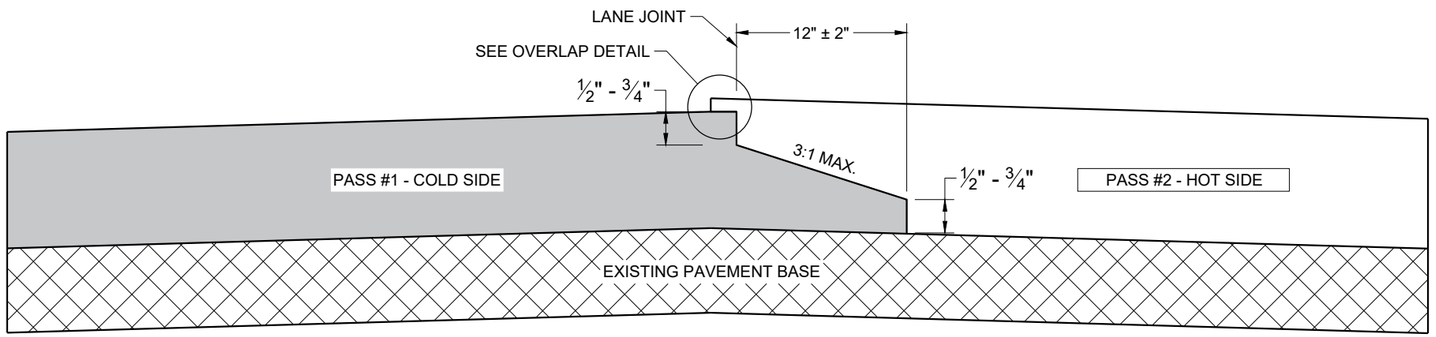
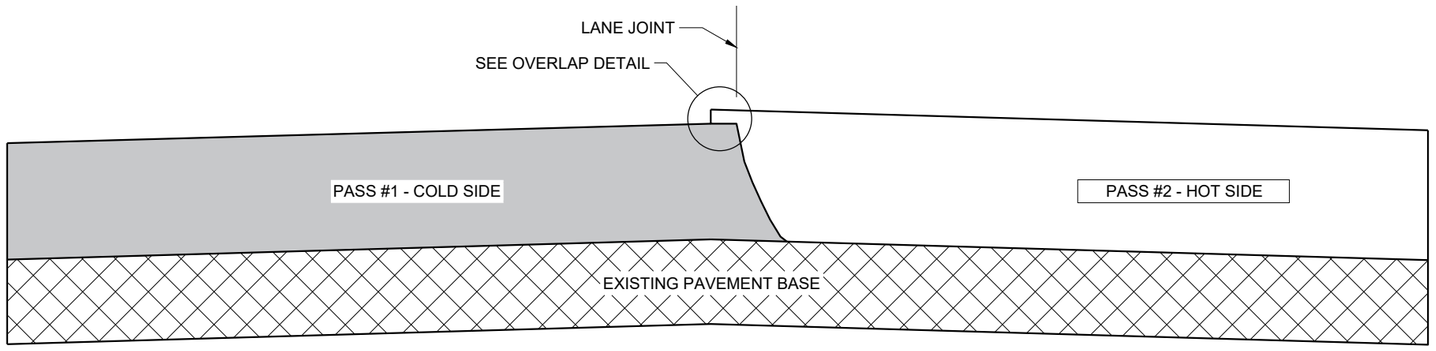
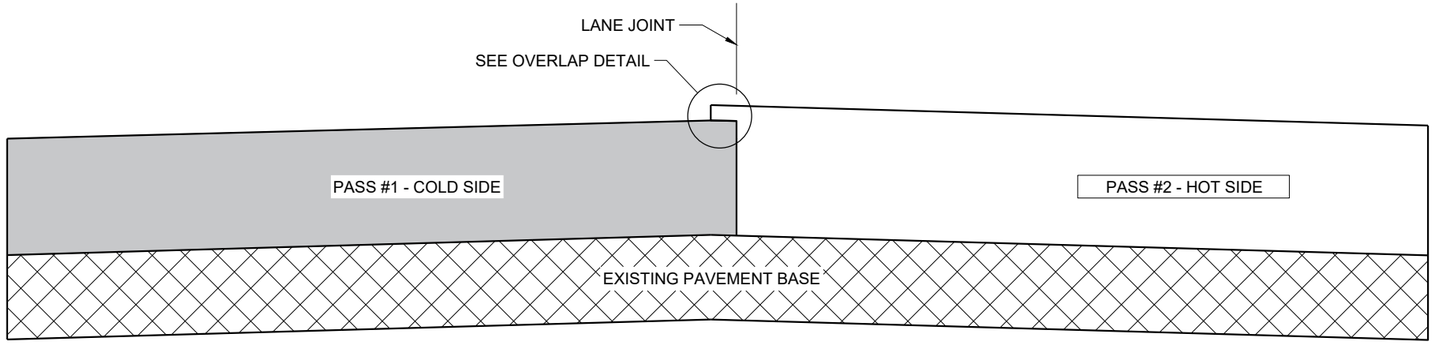
SDD 13C09-18d



TYPICAL PAVEMENT CROSS SECTION
NOTCHED WEDGE JOINT



TYPICAL PAVEMENT CROSS SECTION
VERTICAL JOINT



TYPICAL PAVEMENT CROSS SECTION
VERTICAL JOINT (MILLED)

GENERAL NOTES

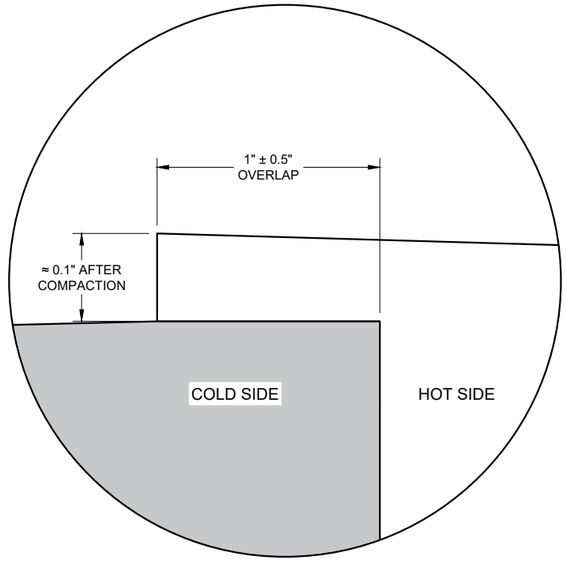
IN ADDITION TO THE DETAILS PROVIDED IN THIS DRAWING, CONFORM TO STANDARD SPECIFICATION 450.3.2.8 FOR WHEN A NOTCHED WEDGE JOINT IS REQUIRED AND FOR GENERAL JOINT CONSTRUCTION REQUIREMENTS.

FOR ALL LONGITUDINAL JOINTS, ENSURE THE PAVER SCREED OVERLAPS THE PREVIOUSLY PLACED PAVEMENT BY 1" ± 0.5" AND THE HOT SIDE OF THE JOINT REMAINS HIGHER THAN THE COLD SIDE BY APPROXIMATELY 0.1" AFTER FINAL COMPACTION. (IT WILL BE FLUSH WHEN PAVING IN ECHELON.)

ONLY REMOVE THE LONGITUDINAL NOTCHED WEDGE JOINT FOR SMA PAVEMENT OR AS DIRECTED BY THE ENGINEER TO ADDRESS SPECIFIC LENGTHS OF JOINT DAMAGED BY TRAFFIC.

WHEN MILLING BACK OR REMOVING ANY LONGITUDINAL JOINT, LIMIT THE MATERIAL REMOVED TO 2" FROM THE TOP NOTCH OR FROM THE VERTICAL JOINT EDGE ON THE COLD SIDE OF THE JOINT.

USE LONGITUDINAL MILLED JOINT AS PLANS SHOW OR THE AS THE ENGINEER DIRECTS.



OVERLAP DETAIL (TYPICAL)

6

6

SDD 13C19 - 03

SDD 13C19 - 03

HMA LONGITUDINAL JOINTS

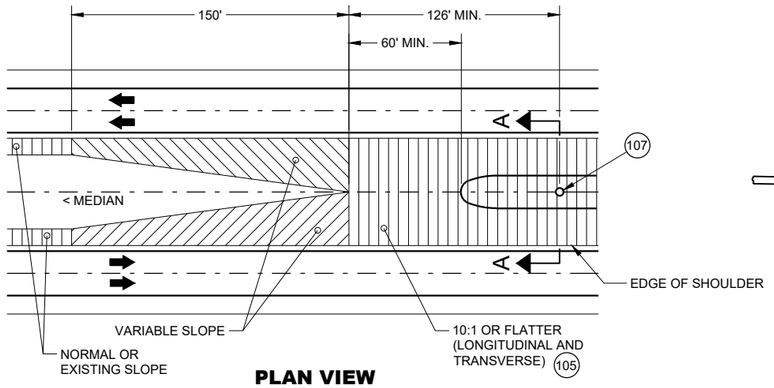
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
November 2020
DATE

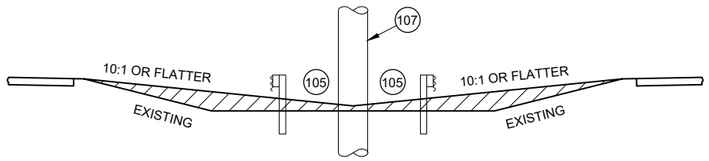
/S/ Steven Hefel
HMA PAVEMENT ENGIN

200

FHWA



PLAN VIEW
GRADING AT BULLNOSE
(ALL INSTALLATIONS)



SECTION A -A
MEDIAN GRADING
(ALL INSTALLATIONS)

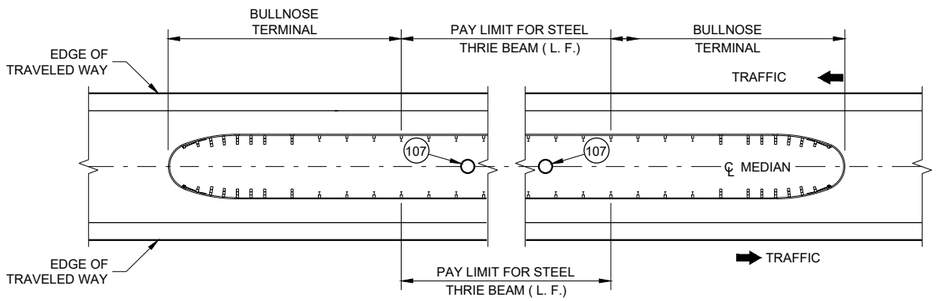
GENERAL NOTES

THRIE BEAM RAILS MAY NEED TO BE FIELD BENT TO FIT THE LOCATION.

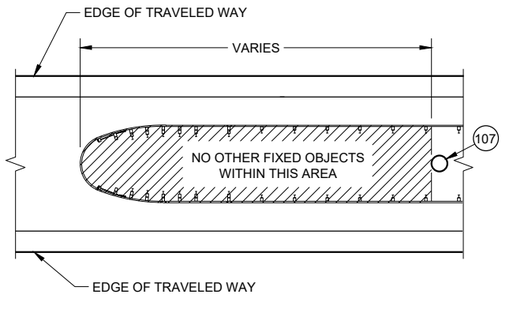
SEE STANDARD DETAIL DRAWINGS 14B26 SHEETS a-h.

IF ROCK IS ENCOUNTERED, REMOVE ROCK TO FULL DEPTH OF POST PLUS 2 ½". MINIMUM DIAMETER OF THE ROCK REMOVAL IS 12" DIAMETER

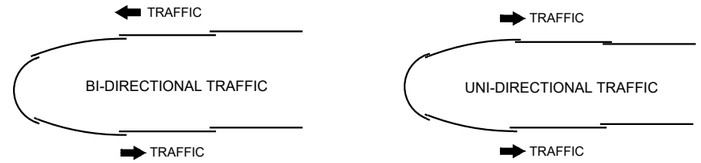
- E1 UNBENT STANDARD THRIE BEAM RAIL B1 (POST 8 TO POST 10 AND POST 10 TO POST 12)
- E2 SLOTTED THRIE BEAM RAIL E1 (POST 1 TO POST 1)
- E3 SLOTTED THRIE BEAM RAIL B3 (POST 5 TO POST 8)
- E4 SLOTTED THRIE BEAM RAIL E4 (POST 1 TO POST 5)
- 5 BEYOND POST 12: CONSTRUCT STEEL THRIE BEAM - USE UNBENT STANDARD THRIE BEAM RAIL NO. 5.
- (100) DIMENSIONS ARE FROM BACK OF RAIL TO BACK OF RAIL WHERE RAIL IS BOLTED TO POST OR BLOCK.
- (101) U-BOLT CABLE CLIPS (3 PER CABLE) SPACED OUT ON NOSE, TO HOLD CABLE TO BACKSIDE OF THE RAIL.
- (102) NOSE CABLE WITH SWAGGED END BUTTONS.
- (103) NOSE CABLE ANCHOR PLATE (BACKSIDE OF SPLICE).
- (104) THE SLACK IN THE NOSE CABLES SHALL BE EVENLY DISTRIBUTED BETWEEN THE CABLE CLIP FASTENERS AND POST NO. 1 ON EITHER SIDE OF THE NOSE.
- (105) MINIMUM WORKING WIDTH 4' - 2".
- (106) MAX. WIDTH OF SYSTEM IS 14' - 2 ½" MEASURED FROM THE BACK OF RAIL TO BACK OF RAIL WHERE RAIL IS BOLTED TO A POST OR BLOCK.
- (107) FIXED OBJECT OR OTHER HAZARD.
- (108) PLAN IS TO PROVIDE STATION OFFSET TO CENTER OF POST 5 IN PLANS.



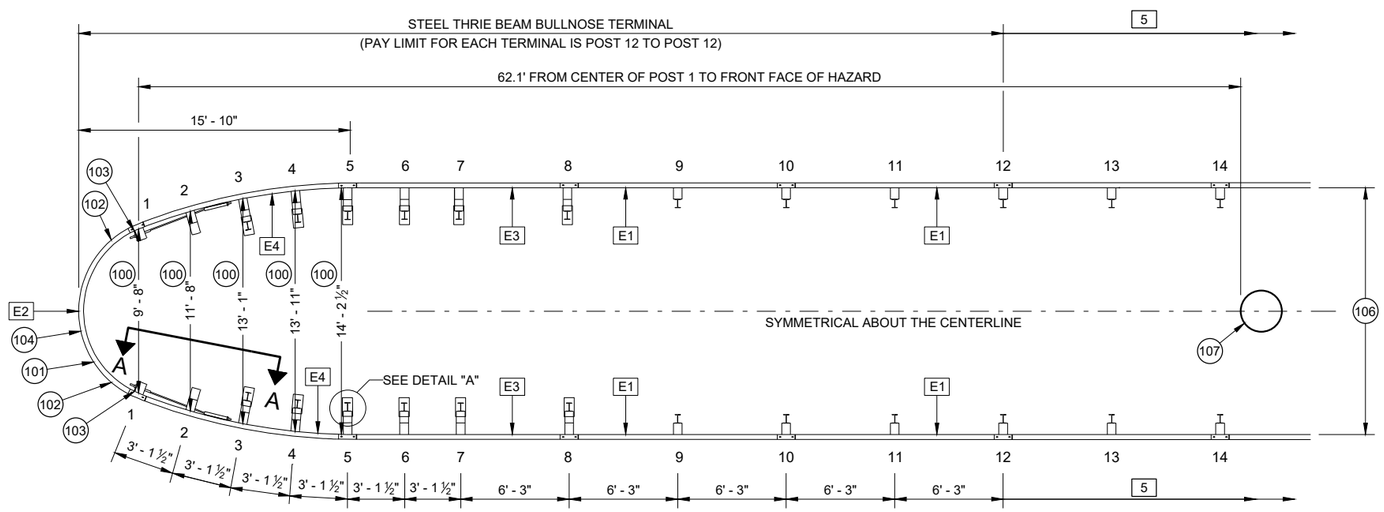
MEDIAN HAZARD PROTECTION PAY LIMITS



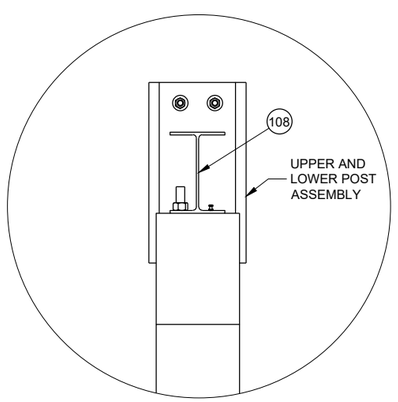
HAZARD FREE AREA
INSIDE BULLNOSE



LAPPING DETAIL



PLAN VIEW
TYPICAL BULLNOSE LAYOUT



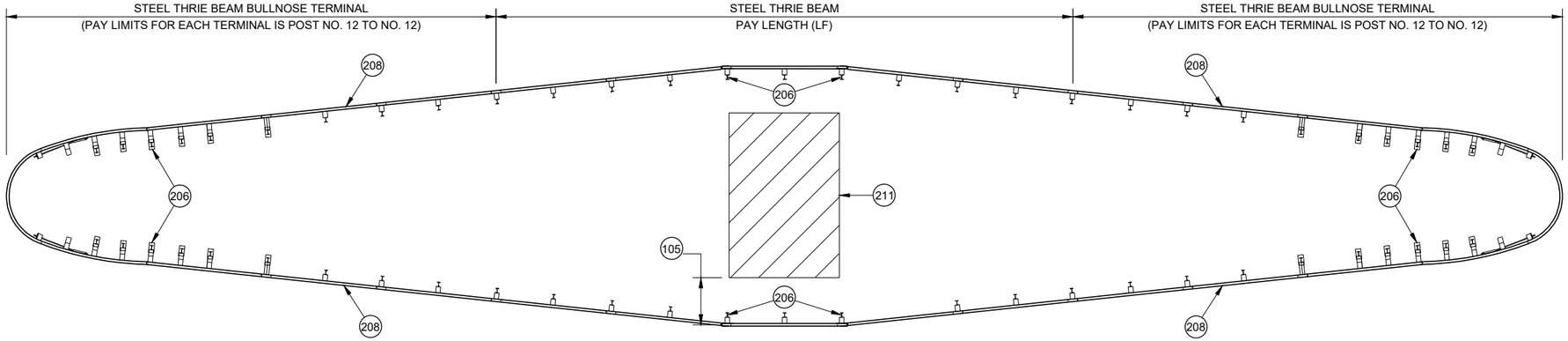
DETAIL "A"

STEEL THRIE BEAM
BULLNOSE TERMINAL

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

SDD 14B26 - 05a

SDD 14B26 - 05a



VARIABLE WIDTH BULLNOSE

GENERAL NOTES

200 6' - 3" ASYMMETRICAL 10-GAUGE W-BEAM TO THRIE BEAM GUARD TRANSITION. SEE SDD 14B45 FOR MORE INFORMATION.

201 W-BEAM RAIL. SEE SDD 14B42 FOR MORE INFORMATION.

202 SEE POST NO. 9 AND ALL STEEL THRIE BEAM POST BEYOND DETAIL.

203 SEE SDD 14B42 FOR INSTALLATION INFORMATION.

204 SEE SDD 14B45 FOR INSTALLATION DETAILS. REPLACE ASYMMETRICAL W-BEAM TO THRIE BEAM TRANSITION AND W-BEAM RAIL WITH E1. PAY FOR MODIFIED THRIE BEAM TRANSITION.

205 CONCRETE BARRIER OR BRIDGE RAIL.

206 SEE PLAN FOR STATION AND OFFSET TO CENTER OF POST.

207 SEE PLAN FOR STATION AND OFFSET TO CENTER OF SPLICE.

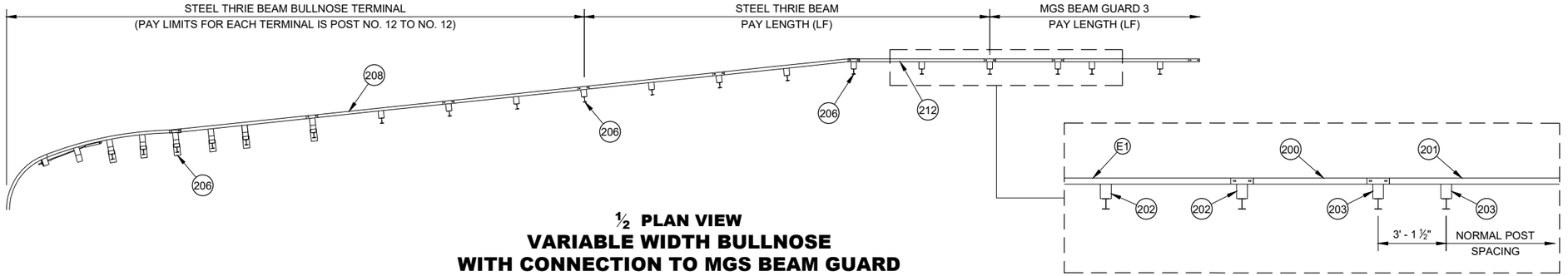
208 SEE PLAN FOR FLARE RATE.

209 A MINIMUM OF 25 FT OF THRIE BEAM TANGENT BEFORE TRANSITIONING TO BEAM GUARD OR THRIE BEAM TRANSITION.

210 NOT ALL BULLNOSE HARDWARE SHOWN. SEE OTHER SHEETS IN 14B26.

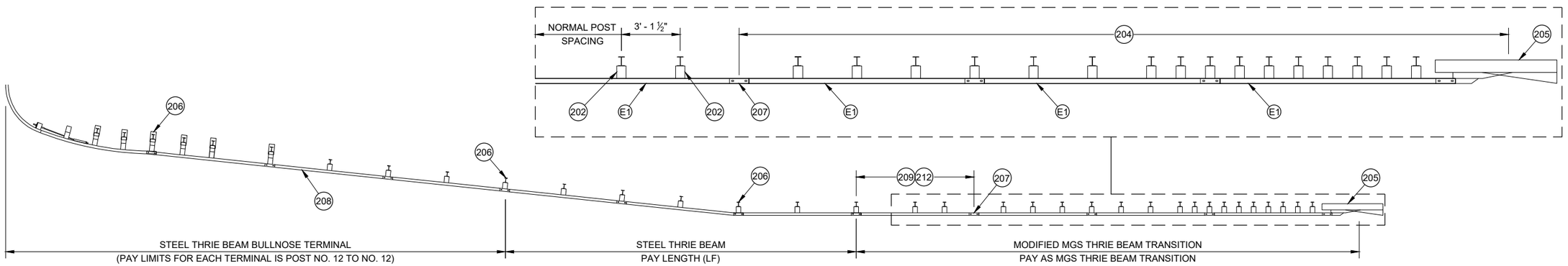
211 WIDER HAZARD TO BE SHIELDED.

212 TRANSITION RAIL HEIGHT TO 31" OVER THE LENGTH OF A 12' - 6" BEAM SECTION.



½ PLAN VIEW

VARIABLE WIDTH BULLNOSE WITH CONNECTION TO MGS BEAM GUARD



½ PLAN VIEW

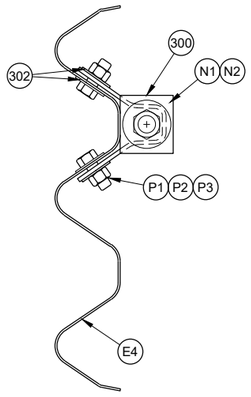
VARIABLE WIDTH BULLNOSE WITH CONNECTION TO RIGID BARRIER

STEEL THRIE BEAM BULLNOSE TERMINAL

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

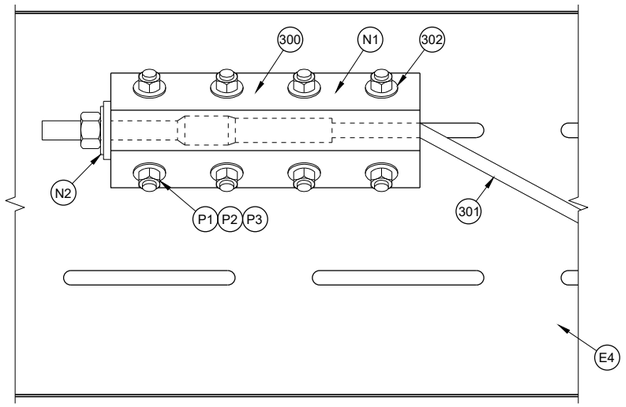
6

SDD 14B26 - 05b

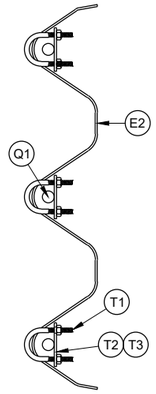


PROFILE VIEW

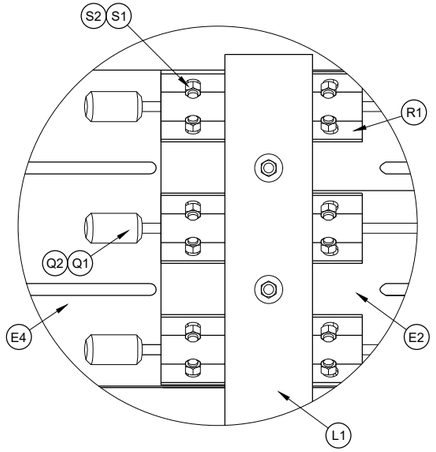
CABLE ANCHOR ASSEMBLY CONNECTION



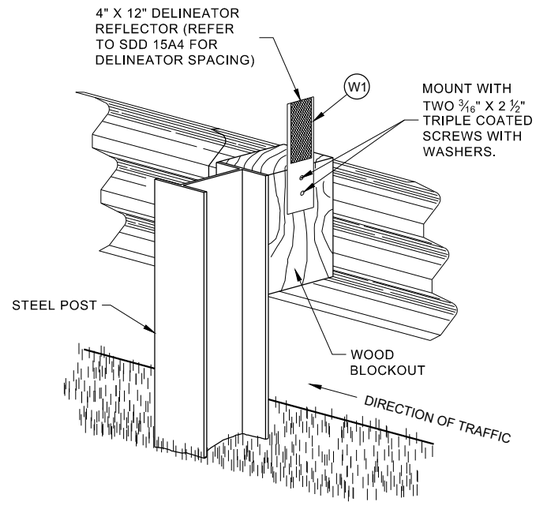
CABLE ANCHOR ASSEMBLY



NOSE CABLE RETAINING CLIP

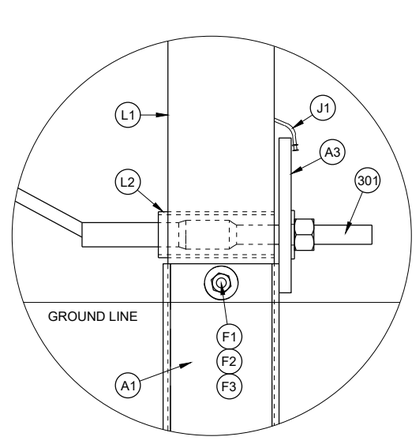


DETAIL "A"

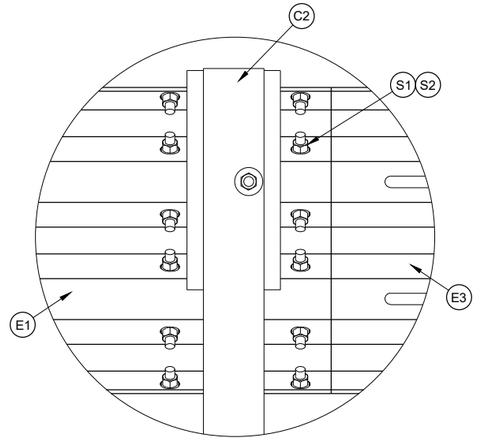


ONE SIDED REFLECTOR DETAIL AND TYPICAL INSTALLATION

CROSS SECTION A - A



DETAIL "B"



DETAIL "C"
THRIE BEAM SPLICE

GENERAL NOTES

(300) SEE ANCHOR BRACKET ASSEMBLY DETAIL.

(301) SEE ANCHOR CABLE ASSEMBLY DETAIL

(302) ONE WASHER BETWEEN BOLT HEAD AND RAIL AND BETWEEN NUT AND ANCHOR BRACKET ASSEMBLY.

(303) ONE WASHER BETWEEN BOLD HEAD AND FOUNDATION TUBE AND BETWEEN NUT AND FOUNDATION TUBE.

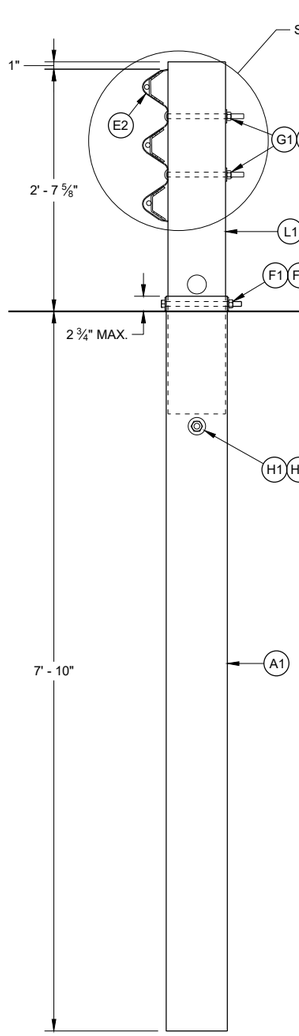
STEEL THRIE BEAM BULLNOSE TERMINAL

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

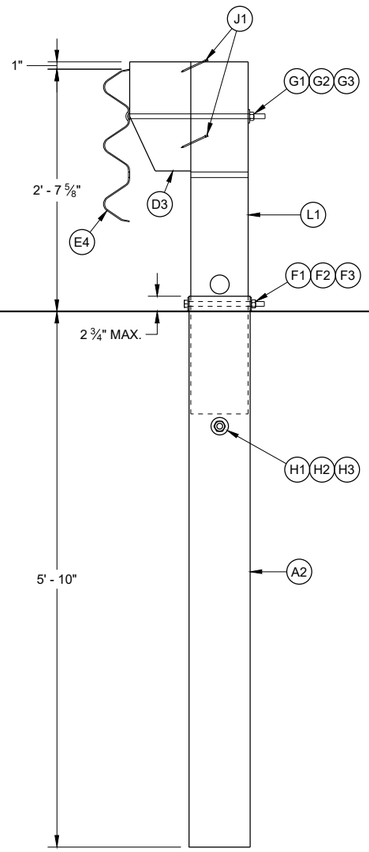
6

SDD 14B26 - 05c

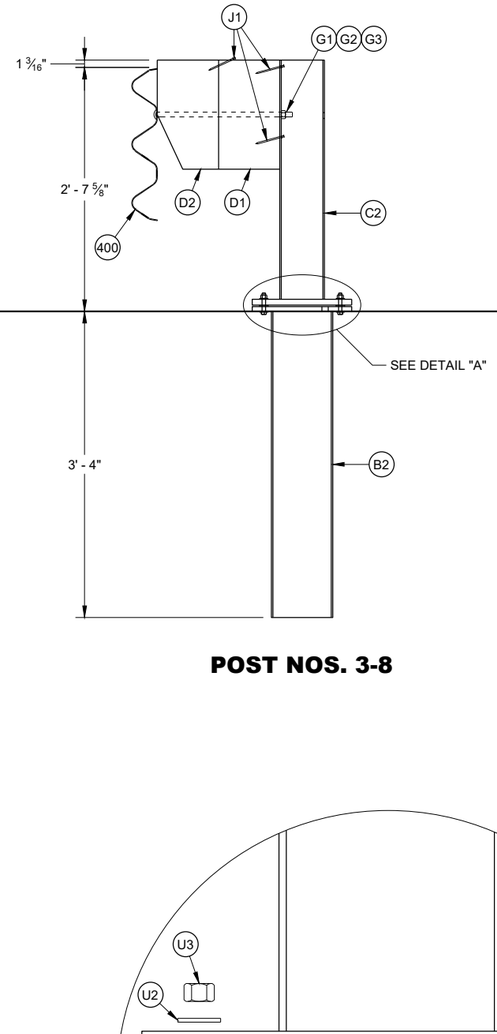
SDD 14B26 - 05c



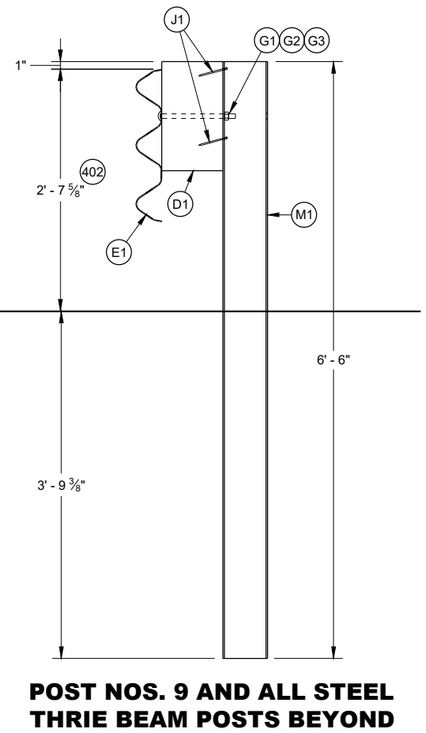
POST NO. 1



POST NO. 2



POST NOS. 3-8



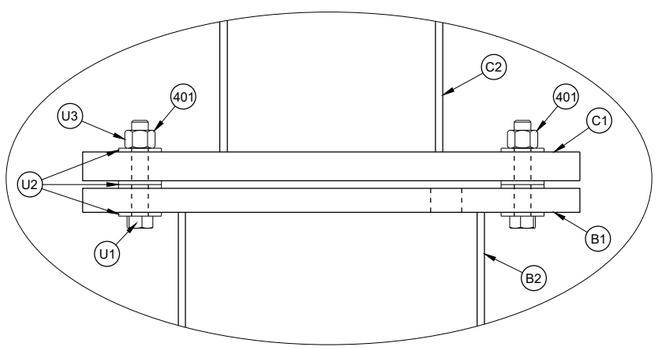
POST NOS. 9 AND ALL STEEL THRIE BEAM POSTS BEYOND

GENERAL NOTES

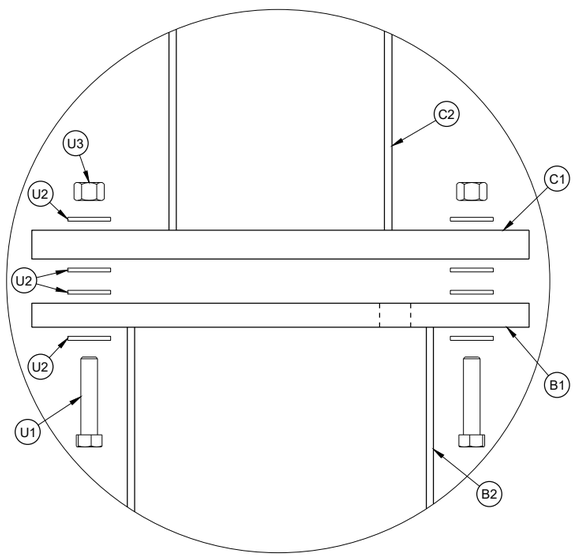
(400) RAIL CAN BE E3 OR E4 DEPENDING ON POST LOCATION.

(401) TORQUE BOLD BETWEEN 60-75 FT-LB

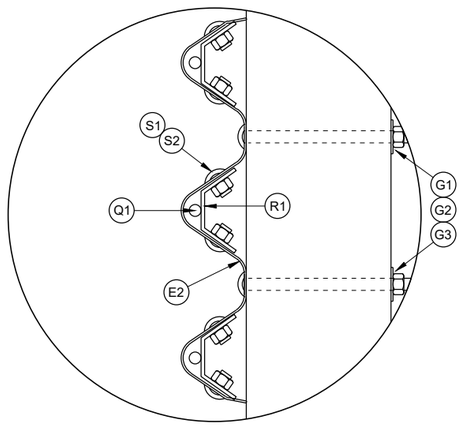
(402) HEIGHT WILL VARY WITHIN HEIGHT TRANSITION TO OTHER HARDWARE. SEE NOTE 213, SHEET "b".



DETAIL "A"



EXPLODED VIEW
DETAIL "A"



DETAIL "B"

STEEL THRIE BEAM BULLNOSE TERMINAL

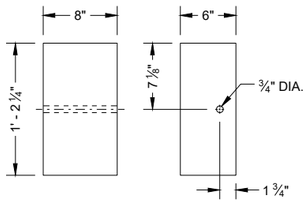
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

6

SDD 14B26 - 05d

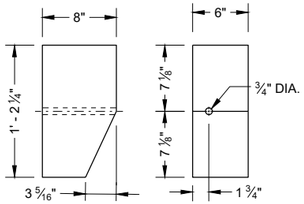
6

SDD 14B26 - 05d



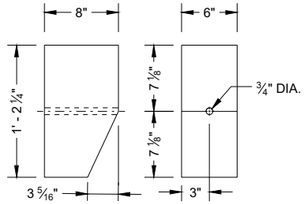
ELEVATION PROFILE

BLOCKOUT (D1)



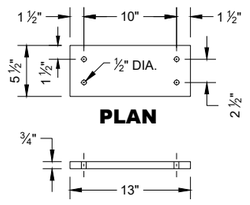
ELEVATION PROFILE

BLOCKOUT (D2)



ELEVATION PROFILE

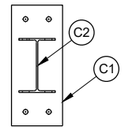
BLOCKOUT (D3)



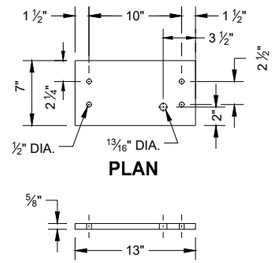
PLAN

PROFILE

UPPER SHEAR PLATE (C1)



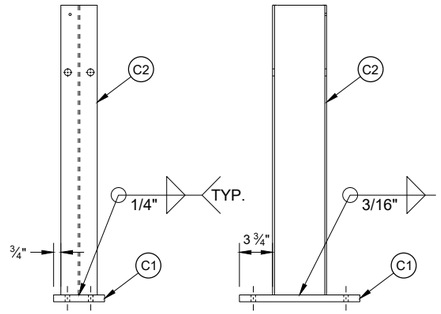
PLAN



PLAN

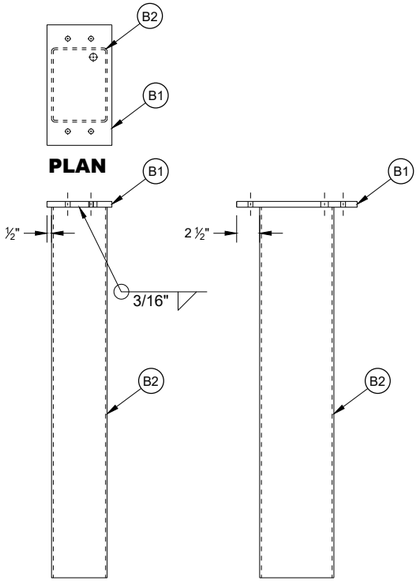
PROFILE

LOWER SHEAR PLATE (B1)



ELEVATION PROFILE

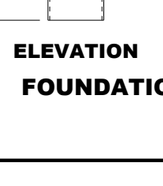
UPPER POST ASSEMBLY



PLAN

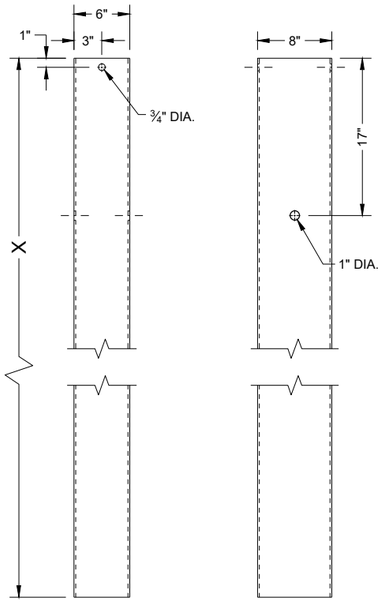
ELEVATION PROFILE

LOWER POST ASSEMBLY



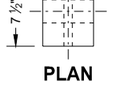
PLAN

PART	LENGTH "X"
A1	8' - 0"
A2	6' - 0"
B2	3' - 4"

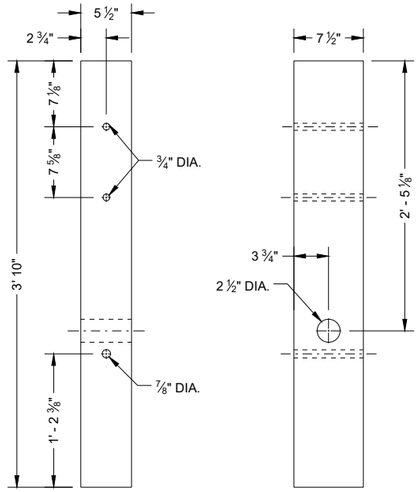


ELEVATION PROFILE

FOUNDATION TUBE

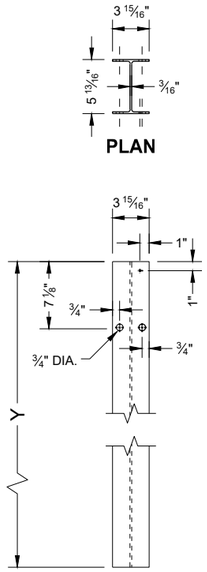


PLAN



ELEVATION PROFILE

BCT POST (L1)



PLAN

ELEVATION

POST

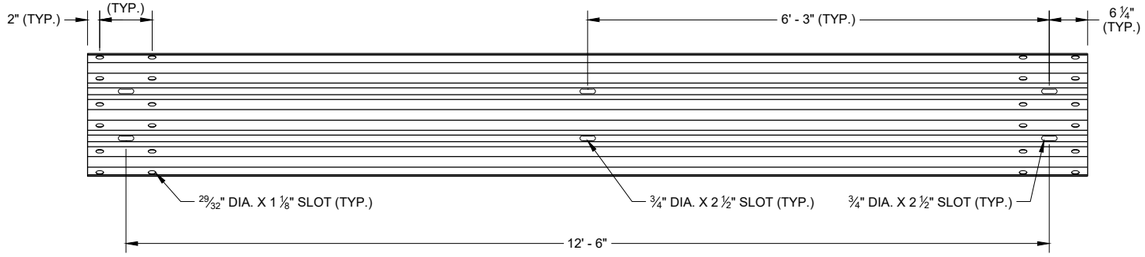
PART	LENGTH "Y"
M1	6' - 6"
M2	5' - 8 5/8"
C2	2' - 7 5/8"

STEEL THRIE BEAM BULLNOSE TERMINAL

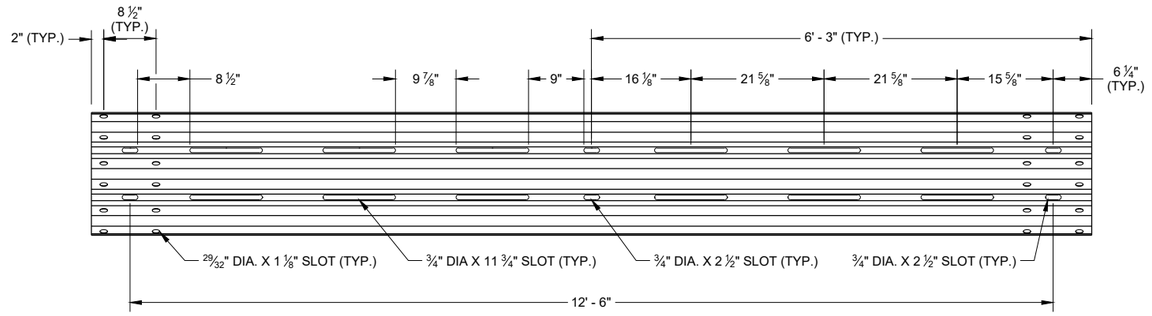
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

6

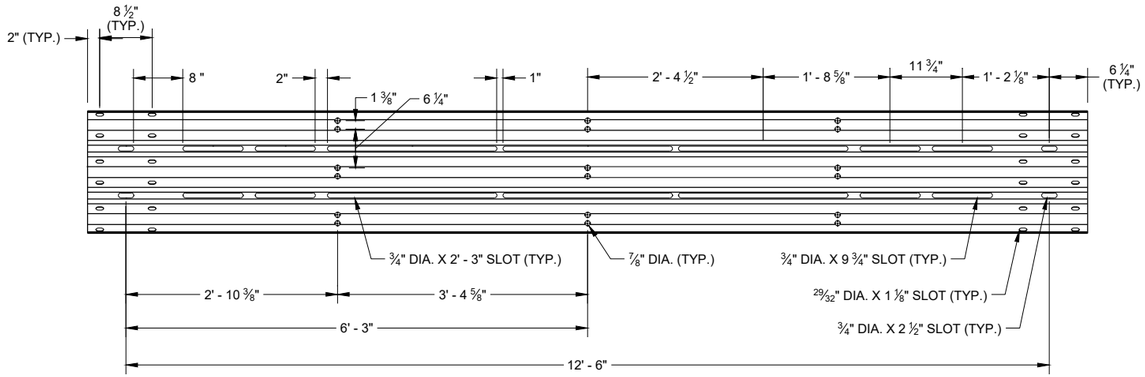
SDD 14B26 - 05e



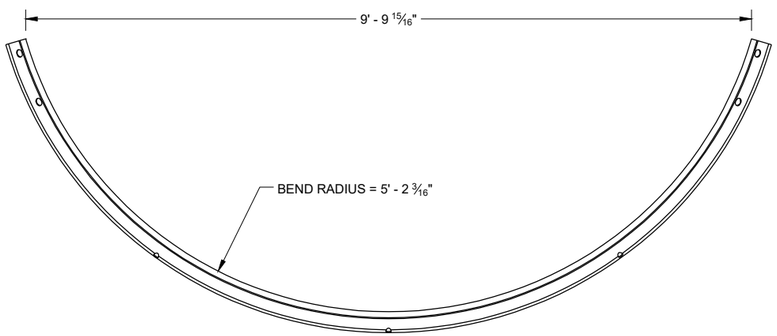
SLOTTED THRIE BEAM RAIL E1



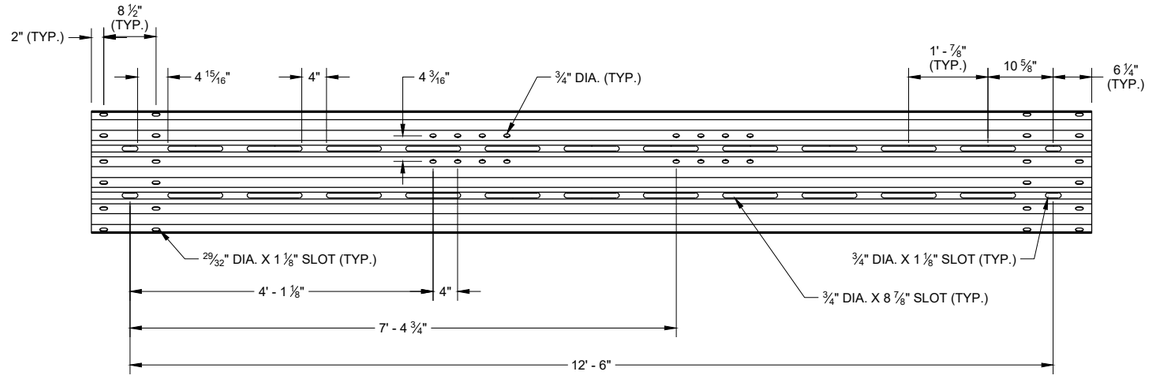
SLOTTED THRIE BEAM RAIL E3



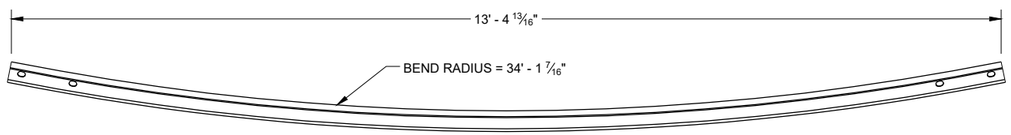
ELEVATION VIEW NON - RADIUSED
SLOTTED THRIE BEAM RAIL E2



PLAN VIEW
SLOTTED THRIE BEAM RAIL E2



ELEVATION VIEW NON - RADIUSED
SLOTTED THRIE BEAM RAIL E4



PLAN VIEW
SLOTTED THRIE BEAM RAIL E4

STEEL THRIE BEAM BULLNOSE TERMINAL

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

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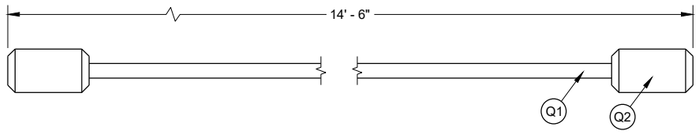
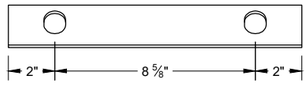
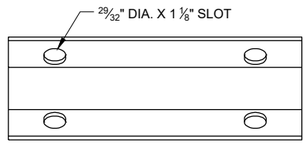


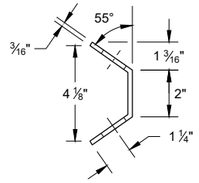
NOSE CABLE AND SWAGE BUTTON



PLAN VIEW

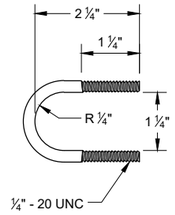


ELEVATION VIEW

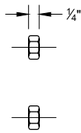


PROFILE VIEW

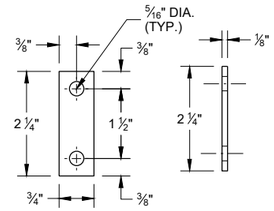
NOSE CABLE ANCHOR (R1)



U - BOLT (T1)

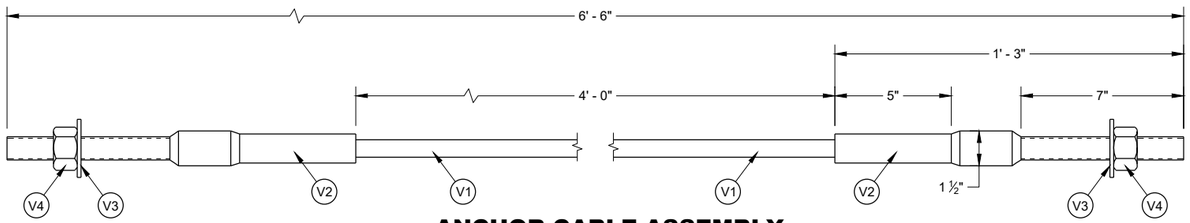


U - BOLT NUT (T3)

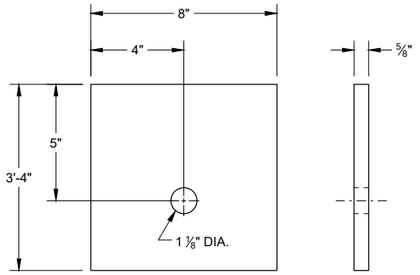


ELEVATION VIEW **PROFILE VIEW**

U - BOLT PLATE WASHER (T2)

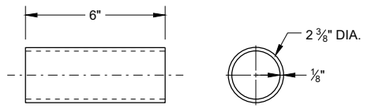


ANCHOR CABLE ASSEMBLY



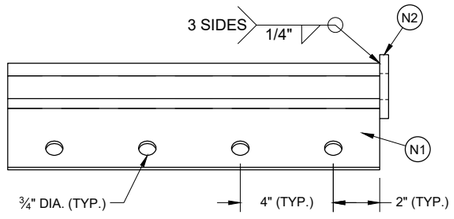
ELEVATION VIEW **PROFILE VIEW**

BCT BEARING PLATE (A3)

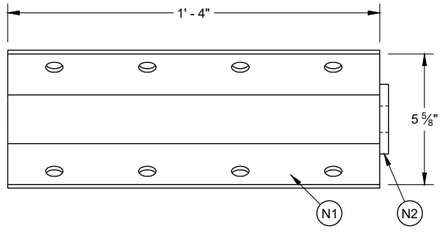


ELEVATION VIEW **PROFILE VIEW**

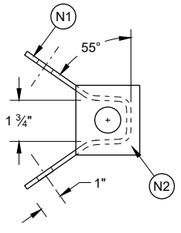
BCT POST SLEEVE (L2)



PLAN VIEW

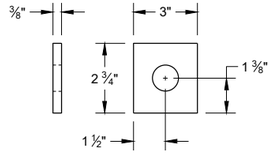


ELEVATION VIEW



PROFILE VIEW

ANCHOR BRACKET ASSEMBLY (N1)



ANCHOR BRACKET END PLATE (N2)

STEEL THRIE BEAM BULLNOSE TERMINAL

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

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SDD 14B26 - 05g

BILL OF MATERIALS LIST

PART NUMBER	DESCRIPTION	MATERIAL SPECIFICATION
A1	LONG FOUNDATION TUBE	AASHTO M111/ASTM A123 ASTM A500 GRADE B OR ASTM A-501
A2	FOUNDATION TUBE	AASHTO M111/ASTM A123 ASTM A500 GRADE B OR ASTM A-501
A3	BEARING PLATE AT POST	AASHTO M111/ASTM A123 ASTM A36 MIN STRENGTH 36 KSI, OR ASTM A529 MAX. STRENGTH 50 KSI, OR ASTM A572 MAX. STRENGTH 50 KSI, OR ASTM A709 MAX. STRENGTH 50 KSI, OR ASTM A992 MAX. STRENGTH 50 KSI
B1	LOWER SLIP POST ASSEMBLY - PLATE	AASHTO M111/ASTM A123 ASTM A36 MIN STRENGTH 36 KSI, OR ASTM A529 MAX. STRENGTH 50 KSI, OR ASTM A572 MAX. STRENGTH 50 KSI, OR ASTM A709 MAX. STRENGTH 50 KSI, OR ASTM A992 MAX. STRENGTH 50 KSI
B2	LOWER SLIP POST ASSEMBLY - TUBE	AASHTO M111/ASTM A123 ASTM A500 GRADE B OR ASTM A-501
C1	UPPER SLIP POST ASSEMBLY - PLATE	AASHTO M111/ASTM A123 ASTM A36 MIN STRENGTH 36 KSI, OR ASTM A529 MAX. STRENGTH 50 KSI, OR ASTM A572 MAX. STRENGTH 50 KSI, OR ASTM A709 MAX. STRENGTH 50 KSI, OR ASTM A992 MAX. STRENGTH 50 KSI
C2	UPPER SLIP POST ASSEMBLY - POST	AASHTO M111/ASTM A123 ASTM A6 W6X9 OR W6X8.5 ASTM A36 MIN STRENGTH 36 KSI, OR ASTM A529 MAX. STRENGTH 50 KSI, OR ASTM A572 MAX. STRENGTH 50 KSI, OR ASTM A709 MAX. STRENGTH 50 KSI, OR ASTM A992 MAX. STRENGTH 50 KSI
D1	BLOCK FOR STEEL POST - WOOD	WISDOT SPEC. 614
D2	TAPERED BLOCK FOR STEEL POST - WOOD	WISDOT SPEC. 614
D3	TAPERED BLOCK FOR BCT POST - WOOD	WISDOT SPEC. 614
E1	THRIE BEAM RAIL	AASHTO M180 CLASS A TYPE 2 APPROVED PRODUCER
E2	THRIE BEAM RAIL - SHOP BENT AND PUNCHED	AASHTO M180 CLASS A TYPE 2 APPROVED PRODUCER. INDICATE RADIUS BEAM GUARD IS BENT TO ON THE BACKSIDE OF RAIL. FOLLOW AASHTO M180. MARK RADIUS.
E3	THRIE BEAM RAIL - PUNCHED	AASHTO M180 CLASS A TYPE 2 APPROVED PRODUCER
E4	THRIE BEAM RAIL - SHOP BENT AND PUNCHED	AASHTO M180 CLASS A TYPE 2 APPROVED PRODUCER. INDICATE RADIUS BEAM GUARD IS BENT TO ON THE BACKSIDE OF RAIL. FOLLOW AASHTO M180. MARK RADIUS.
F1	5/8" DIA. HEX HEAD GROUND STRUT AND YOKE BOLT	HOT DIP AASHTO M232 CLASS / ASTM A153 CLASS C / ASTM F2329 C OR MECHANICAL GAL. TO AASHTO M298 CLASS 50 TYPE 1/ ASTM B695 CLASS 50 TYPE 1 UNC HEAVY HEX HEAD ASTM A307 GRADE B OR SAE J429 GRADE 2 OR ASTM F1554 GRADE 36
F2	5/8" DIA. GROUND STRUT AND YOKE BOLT - WASHER	HOT DIP AASHTO M232 CLASS / ASTM A153 CLASS C / ASTM F2329 C OR MECHANICAL GAL. TO AASHTO M298 CLASS 50 TYPE 1/ ASTM B695 CLASS 50 TYPE 1 F436 TYPE 1 (HARDEN WASHER ONLY)
F3	GROUND STRUT AND YOKE BOLT - NUT	HOT DIP AASHTO M232 CLASS / ASTM A153 CLASS C / ASTM F2329 C OR MECHANICAL GAL. TO AASHTO M298 CLASS 50 TYPE 1/ ASTM B695 CLASS 50 TYPE 1 UNC OVER TAP NUTS AS SPECIFIED IN AASHTO 291/ASTM A 563 HEAVY HEX HEAD ASTM A563DH OR SAE J995 GRADE 5
G1	5/8 " DIA. POST BOLT	HOT DIP AASHTO M232 CLASS / ASTM A153 CLASS C / ASTM F2329 C OR MECHANICAL GAL. TO AASHTO M298 CLASS 50 TYPE 1/ ASTM B695 CLASS 50 TYPE 1 F436 TYPE 1 (HARDEN WASHER TYPICALLY USED WITH STEEL POSTS) OR ASTM F844 (UNHARDENED WASHER TYPICALLY USED WITH WOOD)
G2	POST BOLT - WASHER	HOT DIP AASHTO M232 CLASS / ASTM A153 CLASS C / ASTM F2329 C OR MECHANICAL GAL. TO AASHTO M298 CLASS 50 TYPE 1/ ASTM B695 CLASS 50 TYPE 1 F436 TYPE 1 (HARDEN WASHER TYPICALLY USED WITH STEEL POSTS) OR ASTM F844 (UNHARDENED WASHER TYPICALLY USED WITH WOOD)
G3	POST BOLT - NUT	HOT DIP AASHTO M232 CLASS / ASTM A153 CLASS C / ASTM F2329 C OR MECHANICAL GAL. TO AASHTO M298 CLASS 50 TYPE 1/ ASTM B695 CLASS 50 TYPE 1 UNC OVER TAP NUTS AS SPECIFIED IN AASHTO 291/ASTM A 563 AASHTO M180 RECESSED HEAVY HEX HEAD ASTM A563DH OR SAE J995 GRADE 5
H1	7/8" DIA. SOIL TUBE BOLT	HOT DIP AASHTO M232 CLASS / ASTM A153 CLASS C / ASTM F2329 C OR MECHANICAL GAL. TO AASHTO M298 CLASS 50 TYPE 1/ ASTM B695 CLASS 50 TYPE 1 UNC OVER TAP NUTS AS SPECIFIED IN AASHTO 291/ASTM A 563 HEAVY HEX HEAD 7/8" ASTM A563DH OR SAE J995 GRADE 5
H2	SOIL TUBE BOLT - WASHER	HOT DIP AASHTO M232 CLASS / ASTM A153 CLASS C / ASTM F2329 C OR MECHANICAL GAL. TO AASHTO M298 CLASS 50 TYPE 1/ ASTM B695 CLASS 50 TYPE 1 7/8" ASTM F844 TYPE 1 (HARDEN WASHER ONLY)
H3	SOIL TUBE BOLT - NUT	HOT DIP AASHTO M232 CLASS / ASTM A153 CLASS C / ASTM F2329 C OR MECHANICAL GAL. TO AASHTO M298 CLASS 50 TYPE 1/ ASTM B695 CLASS 50 TYPE 1 UNC OVER TAP NUTS AS SPECIFIED IN AASHTO 291/ASTM A 563 HEAVY HEX HEAD 7/8" ASTM A563DH OR SAE J995 GRADE 5
J1	16D DOUBLE HEAD NAIL	ASTM A153 HOT DIPPED CLASS D DOUBLE HEAD ASTM F1667 TYPE 1 STYLE 12 (16 DOUBLE HEADED)
L1	BCT TIMBER POST	WISDOT SPEC. 614 S4S FINISH ON 4 SIDE
L2	BCT POST SLEEVE	AASHTO M111/ASTM A123 2 3/8" OD ASTM 53 GRADE B
M1	W6X8.5 OR W6X9 STEEL POST	AASHTO M111/ASTM A123 ASTM A6 W6X9 OR W6X8.5 ASTM A36 MIN. STRENGTH 36 KSI, OR ASTM A529 MAX. STRENGTH 50 KSI, OR ASTM A572 MAX. STRENGTH 50 KSI, OR ASTM A709 MAX. STRENGTH 50 KSI, OR ASTM A992 MAX. STRENGTH 50 KSI
M2	W6X8.5 OR W6X9 STEEL POST	AASHTO M111/ASTM A123 ASTM A6 W6X9 OR W6X8.5 ASTM A36 MIN. STRENGTH 36 KSI, OR ASTM A529 MAX. STRENGTH 50 KSI, OR ASTM A572 MAX. STRENGTH 50 KSI, OR ASTM A709 MAX. STRENGTH 50 KSI, OR ASTM A992 MAX. STRENGTH 50 KSI
N1	ANCHOR BRACKET	AASHTO M111/ASTM A123 ASTM A36 MIN. STRENGTH 36 KSI, OR ASTM A529 MAX. STRENGTH 50 KSI, OR ASTM A572 MAX. STRENGTH 50 KSI, OR ASTM A709 MAX. STRENGTH 50 KSI, OR ASTM A992 MAX. STRENGTH 50 KSI
N2	ANCHOR BRACKET - BEARING PLATE	AASHTO M111/ASTM A123 ASTM A36 MIN. STRENGTH 36 KSI, OR ASTM A529 MAX. STRENGTH 50 KSI, OR ASTM A572 MAX. STRENGTH 50 KSI, OR ASTM A709 MAX. STRENGTH 50 KSI, OR ASTM A992 MAX. STRENGTH 50 KSI

PART NUMBER	DESCRIPTION	MATERIAL SPECIFICATION
P1	5/8" DIA. ANCHOR BRACKET BOLT	HOT DIP AASHTO M232 CLASS / ASTM A153 CLASS C / ASTM F2329 C OR MECHANICAL GAL. TO AASHTO M298 CLASS 50 TYPE 1/ ASTM B695 CLASS 50 TYPE 1 UNC HEAVY HEX HEAD 5/8" ASTM A307 GRADE B OR SAE J429 GRADE 2 OR ASTM F1554 GRADE 36
P2	ANCHOR BRACKET BOLT - WASHER	HOT DIP AASHTO M232 CLASS / ASTM A153 CLASS C / ASTM F2329 C OR MECHANICAL GAL. TO AASHTO M298 CLASS 50 TYPE 1/ ASTM B695 CLASS 50 TYPE 1 F436 TYPE 1 (HARDEN WASHER ONLY)
P3	SOIL TUBE BOLT - NUT	HOT DIP AASHTO M232 CLASS / ASTM A153 CLASS C / ASTM F2329 C OR MECHANICAL GAL. TO AASHTO M298 CLASS 50 TYPE 1/ ASTM B695 CLASS 50 TYPE 1 UNC OVER TAP NUTS AS SPECIFIED IN AASHTO 291/ASTM A 563 HEAVY HEX HEAD ASTM A563DH OR SAE J995 GRADE 5
Q1	5/8" DIA. NOSE CABLE	6X19 AASTHO M30 / ASTM A741 XIPS INDEPENDENT WIRE CORE (IWRC) PR 6X25 XIPS, IWRC NOMINAL BREAKING STRENGTH OF 41.2 KIPS.
Q2	NOSE CABLE-SWAGE BUTTON	COLD TUFF BUTTON, S-409 SIZE NO. 12 STOCK NUMBER 1040395 OR ANY OTHER SIMILAR SIZED WAGED-GRIP-BUTTON FERRULES. ASTM A576 GRADE 1035 SWAGE FITTING ARE TO BE FIELD SWAGED PER MANUFACTURERS RECOMMENDATION. NOMINAL BREAKING STRENGTH OF 41.2 KIPS.
R1	NOSE CABLE ANCHOR BRACKET	AASHTO M111/ASTM A123 ASTM A36 MIN. STRENGTH 36 KSI, OR ASTM A529 MAX. STRENGTH 50 KSI, OR ASTM A572 MAX. STRENGTH 50 KSI, OR ASTM A709 MAX. STRENGTH 50 KSI, OR ASTM A992 MAX. STRENGTH 50 KSI
S1	5/8" DIA. SPLICE BOLT - BOLT	HOT DIP AASHTO M232 CLASS / ASTM A153 CLASS C / ASTM F2329 C OR MECHANICAL GAL. TO AASHTO M298 CLASS 50 TYPE 1 / ASTM B695 CLASS 50 TYPE 1 UNC AASHTO M180 HEAD ASTM A307 GRADE B OR SAE J429 GRADE 2 OR ASTM F1554 GRADE 36
S2	SPLICE - BOLT NUT	HOT DIP AASHTO M232 CLASS / ASTM A153 CLASS C / ASTM F2329 C OR MECHANICAL GAL. TO AASHTO M298 CLASS 50 TYPE 1 / ASTM B695 CLASS 50 TYPE 1 UNC OVER TAP NUTS AS SPECIFIED IN AASHTO 291/ASTM A 563 AASHTO M180 RECESSED HEAVY HEX HEAD 5/8" ASTM A563DH OR SAE J995 GRADE 5
T1	1/4" DIA. NOSE CABLE - U BOLT	HOT DIP AASHTO M232 CLASS / ASTM A153 CLASS C / ASTM F2329 C OR MECHANICAL GAL. TO AASHTO M298 CLASS 50 TYPE 1 / ASTM B695 CLASS 50 TYPE 1 UNC HEAVY HEX HEAD ASTM A307 GRADE B OR SAE J429 GRADE 2 OR ASTM F1554 GRADE 36
T2	U-BOLT - PLATE WASHER	HOT DIP AASHTO M232 CLASS / ASTM A153 CLASS C / ASTM F2329 C OR MECHANICAL GAL. TO AASHTO M298 CLASS 50 TYPE 1 / ASTM B695 CLASS 50 TYPE 1 F436 TYPE 1 (HARDEN WASHER ONLY)
T3	U-BOLT NUT	HOT DIP AASHTO M232 CLASS / ASTM A153 CLASS C / ASTM F2329 C OR MECHANICAL GAL. TO AASHTO M298 CLASS 50 TYPE 1/ ASTM B695 CLASS 50 TYPE 1 UNC OVER TAP NUTS AS SPECIFIED IN AASHTO 291 / ASTM A 563 HEAVY HEX HEAD ASTM A563DH OR SAE J995 GRADE 5
U1	7/16" DIA. SLIP POST ASSEMBLY - BREAKAWAY BOLT	ASTM A153 OR B695 CLASS 55 OR F2329 UNC FULLY THREADED HEX HEAD TAP BOLT ASTM A449 OR SAE J429 GRADE 5
U2	7/16" DIA. SLIP POST ASSEBLY - BREAKAWAY BOLT - WASHER	ASTM F436 TYPE I (HARDEN TYPICALLY USED WITH STEEL) GALV. AASHTO M111/ASTM A 123 OR GALV. HOT DIP. TO POST BOLT CLASS C / ASTM F2329 OR GALV. MECHANICALLY TO AASHTO M232 CLASS C / ASTM A153 CLASS C / ASTM AASHTO M298 CLASS 50, TYPE 1 / ASTM B695 CLASS 55, F2329
U3	SLIP POST ASSEBLY - BREAKAWAY BOLT - NUT	HOT DIP AASHTO M232 CLASS / ASTM A153 CLASS C / ASTM F2329 C OR MECHANICAL GAL. TO AASHTO M298 CLASS 50 TYPE 1 / STM B695 CLASS 50 TYPE 1 UNC OVER TAP NUTS AS SPECIFIED IN AASHTO 291/ASTM A 563 HEAVY HEX HEAD ASTM A563DH OR SAE J995 GRADE 5
V1	¾" DIA. BCT CABLE	AASHTO M30 / ASTM A741 6X19 INDEPENDENT WIRE CORE (IWRC) IMPROVED PLOW STEEL (IPS), 6X19 INDEPENDENT WIRE CORE (IWRC) IMPROVED PLOW STEEL (IPS) TYPE II OR IIC, CLASS C ZINC COATED MIN BREAKING STRENGTH OF 42.7 KIPS
V2	ANCHOR CABLE-SWAGE FITTING	UNC ASTM A576 GRADE 1035 SWAGE FITTING ARE TO BE FACTORY SWAGED. MIN. BREAKING STRENGTH OF 42.7 KIPS. ASME B30.26 "FORGED, CAST, OR DIE STAMPED WITH THE FOLLOWING IN TO CONNECTION: NAME OF MANUFACTURE OR TRADEMARK OF CONNECTION'S MANUFACTURER, SIZE OR RATED LOAD, GRADE FOR ALLOY EYEBOLTS."
V3	1" DIA. ANCHOR CABLE-WASHER	HOT DIP AASHTO M232 CLASS / ASTM A153 CLASS C / ASTM F2329 C OR MECHANICAL GAL. TO AASHTO M298 CLASS 50 TYPE 1 / ASTM B695 CLASS 50 TYPE 1 F436 TYPE 1 (HARDEN WASHER ONLY)
V4	1" DIA. ANCHOR CABLE-NUT	HOT DIP AASHTO M232 CLASS / ASTM A153 CLASS C / ASTM F2329 C OR MECHANICAL GAL. TO AASHTO M298 CLASS 50 TYPE 1/ ASTM B695 CLASS 50 TYPE 1 UNC OVER TAP NUTS AS SPECIFIED IN AASHTO 291 / ASTM A 563 HEAVY HEX HEAD ASTM A563DH OR SAE J995 GRADE 5
W1	REFLECTOR	SEE SDD 15A4

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SDD 14B26 - 05h

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SDD 14B26 - 05h

STEEL THRIE BEAM BULLNOSE TERMINAL

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
November 2022 — DATE
/S/ Rodney Taylor — ROADWAY STANDARDS DEVE ENGINEER

FHWA

(1) WOOD OR STEEL POSTS (w6X9 OR w6X8.5) MAY BE USED. DO NOT INTERMIX WOOD AND STEEL POSTS. INSTALL STEEL POSTS WITH HOLES ON APPROACHING TRAFFIC SIDE.

(2) USE WOOD OR APPROVED PLASTIC BLOCKOUTS. WOOD BLOCKOUTS MAY BE CONSTRUCTED OUT OF TWO OR MORE WOOD BLOCKOUTS. SEE ALTERNATE WOOD BLOCKOUT DETAIL. DIMENSIONS OF APPROVED PLASTIC BLOCKOUTS MAY VARY.

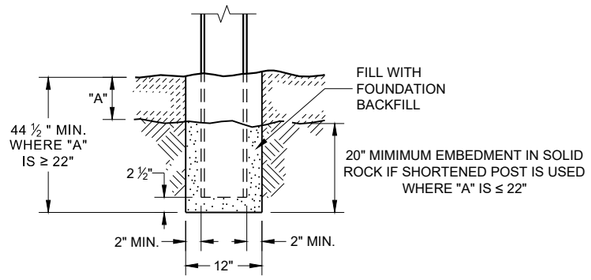
(3) IF ROCK IS ENCOUNTERED DURING EXCAVATION, PROVIDE A HOLE 12 INCHES IN DIAMETER EXTENDING 20 INCHES DEEP INTO THE ROCK. PLACE APPROXIMATELY 2 1/2" INCHES OF GRANULAR MATERIAL IN THE BOTTOM OF THE HOLE. CUT THE POSTS THE TO LENGTH AMD INSTALL. BACKFILL WITH EXCAVATED MATERIAL AND COMPACT. BACKFILL IS TO BE FREE OF LARGE ROCKS.

(4) WHEN THE DISTANCE FROM BACK OF POST TO SHOULDER HINGE POINT IS LESS THAN 2 FEET INSTALL LONGER POST AT HALF POST SPACING (K).

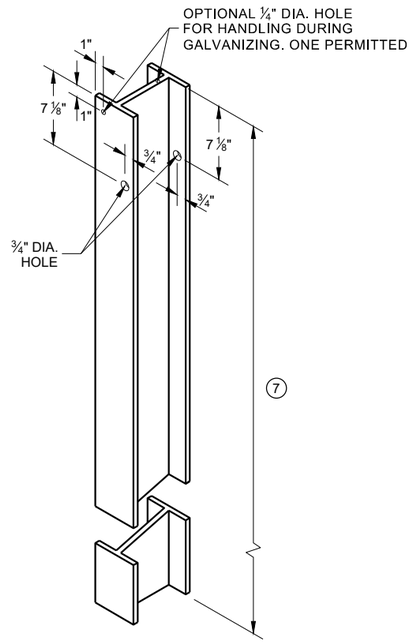
(5) FOR NEW MGS INSTALLATION TOP OF W-BEAM RAIL TOLERANCE IS ±1". FOR EXISTING MGS INSTALLATION TOP OF W-BEAM IS BETWEEN 27 ¾" TO 32".

(6) WHEN USING STEEL POST AND WOOD BLOCKOUTS INSTALL FOUR 16D GALVANIZED NAILS. INSTALL NAILS AT THE BACK CORNERS OF THE BLOCK AND BEND THE NAILS OVER THE FLANGE OF THE STEEL POST.

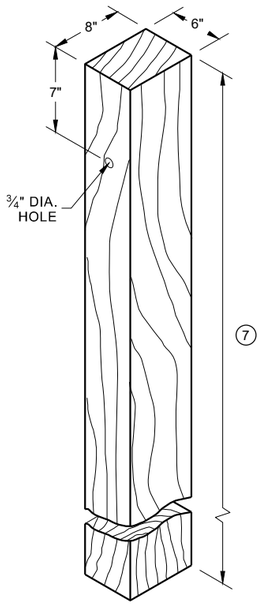
(7) TOTAL POST LENGTH FOR TYPE K IS 7' - 0".
TOTAL POST LENGTH FOR OTHER MGS TYPES IS 6' - 0".



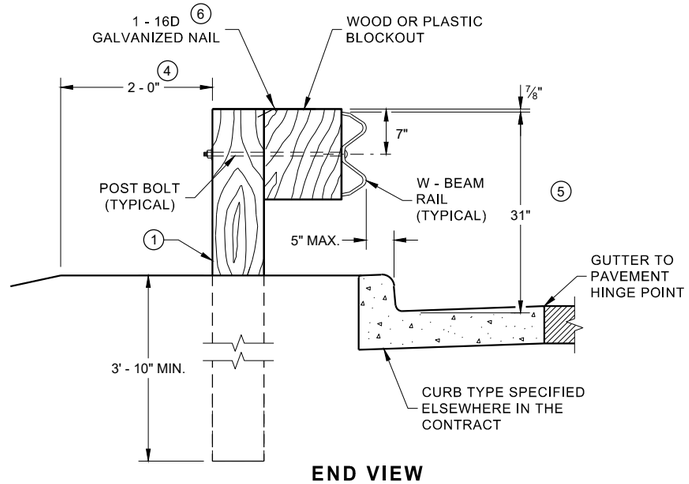
END VIEW
SETTING STEEL OR WOOD POST IN ROCK (3)



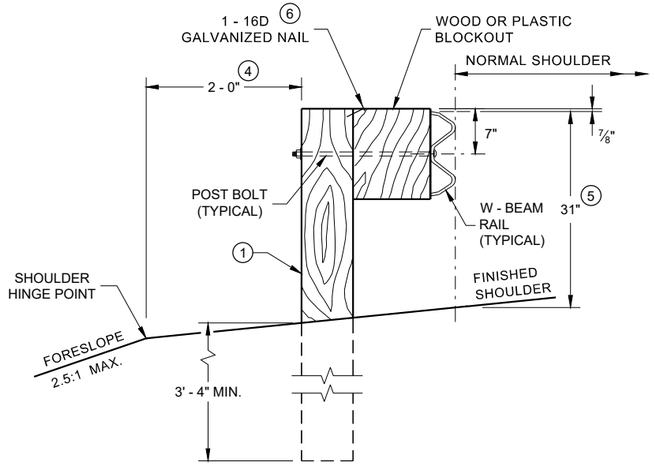
STEEL POST & HOLE PUNCHING DETAIL (W 6 X 9) (1)



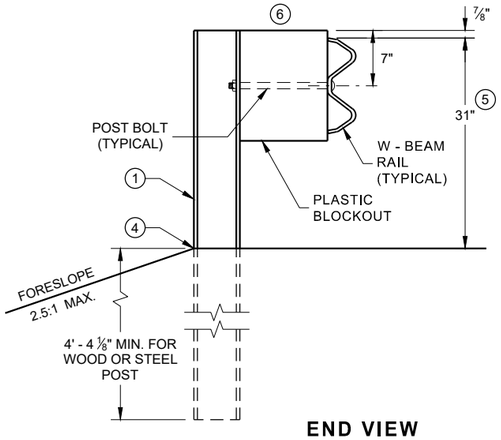
WOOD POST (6" X 8") NOMINAL (1)



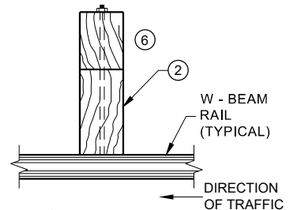
END VIEW
LOCATED ALONG A CURBED ROADWAY



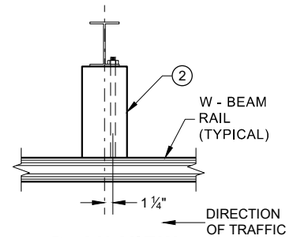
END VIEW
LOCATED ALONG A ROADWAY SHOULDER STANDARD INSTALLATION



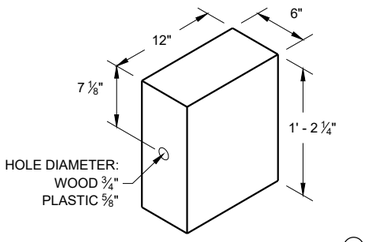
END VIEW
MGS LONGER POST AT HALFPOST SPACING W BEAM (K)



PLAN VIEW
WOOD POST, BLOCKOUT & BEAM



PLAN VIEW
STEEL POST, PLASTIC BLOCKOUT & BEAM



WOOD OR PLASTIC BLOCKOUT (2)

MIDWEST GUARDRAIL SYSTEM (MGS) GUARDRAIL

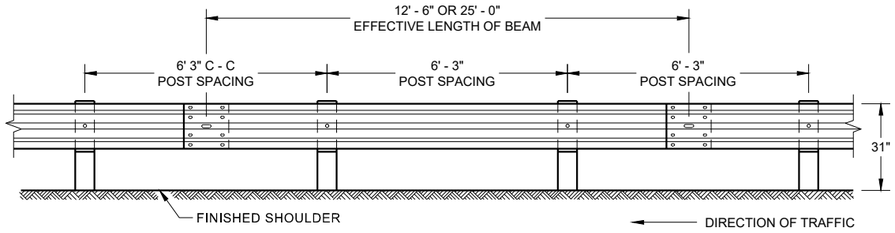
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

6

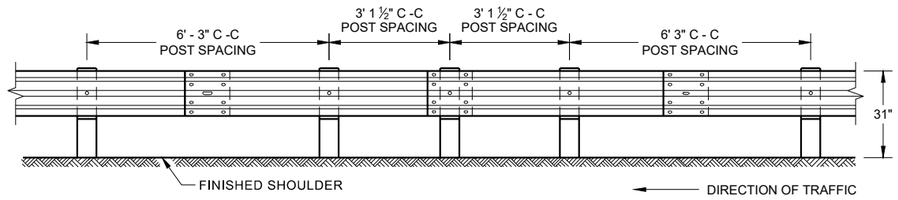
SDD 14B42 - 07a

6

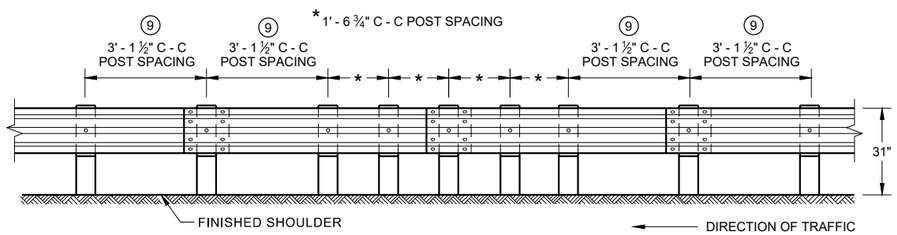
SDD 14B42 - 07a



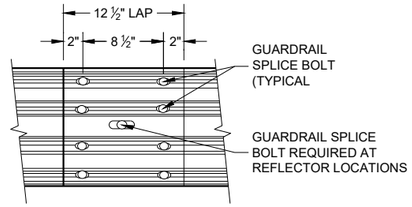
FRONT VIEW
POST SPACING STANDARD INSTALLATION



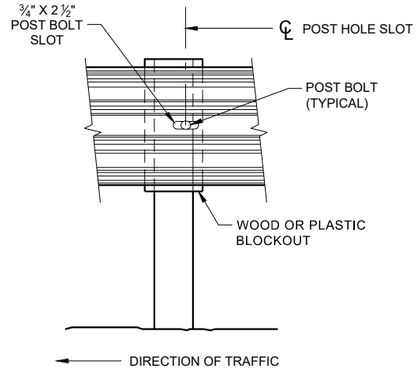
FRONT VIEW
HALF POST SPACING (HS) AND HALF POST SPACING WITH LONGER POSTS (K)



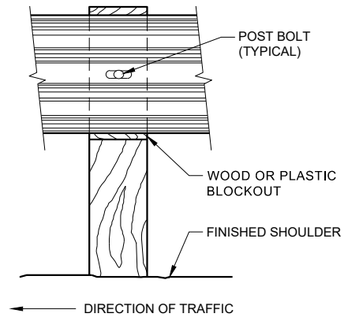
FRONT VIEW
QUARTER POST SPACING (QS)



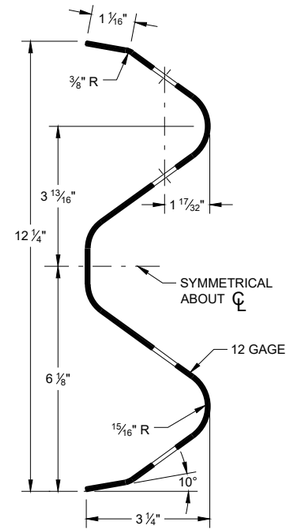
FRONT VIEW
MID-SPAN BEAM SPLICE



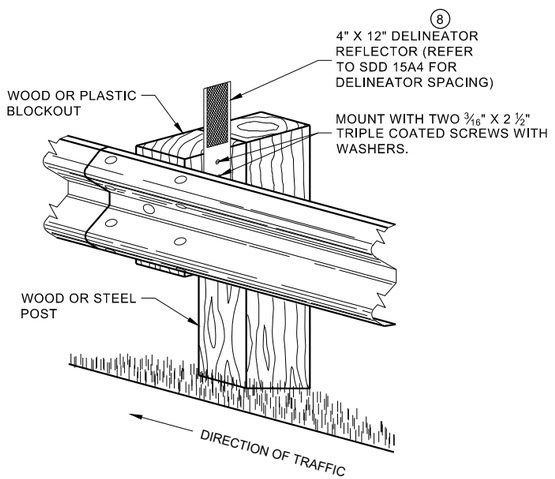
FRONT VIEW AT STEEL POST



FRONT VIEW AT WOOD POST



SECTION THRU W-BEAM RAIL



ONE SIDED REFLECTOR DETAIL AND TYPICAL INSTALLATION

GENERAL NOTES

(8) DO NOT INSTALL REFLECTORS ON THE FIRST 50 FEET OF THE APPROACH END OF THE ENERGY ABSORBING TERMINAL.

(9) 25 FEET OF HALF POST SPACING IS REQUIRED ON APPROACH AND DEPARTURE ENDS OF QUARTER POST SPACING.

POST BOLTS ARE A ⅝" DIAMETER ASTM A307 GUARDRAIL BOLT. A POST BOLT REQUIRES ⅝" DIAMETER A563A DOUBLE RECESSED (DR) HEAVY HEX NUT AND ⅝" DIAMETER F844 FLAT WASHER. POST BOLTS MAY BE LONGER IF MULTIPLE BLOCKOUTS ARE BEING USED.

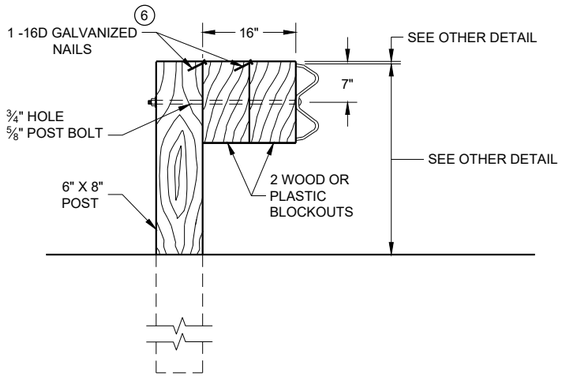
GUARD RAIL SPLICE BOLTS ARE A ⅝" DIAMETER ASTM A307 GUARDRAIL HEAD BOLT. A GUARDRAIL SPLICE BOLT REQUIRES ⅝" DIAMETER A563A DOUBLE RECESSED (DR) HEAVY HEX NUT.

MIDWEST GUARDRAIL SYSTEM (MGS) GUARDRAIL

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

6

SDD 14B42 - 07b
SDD 14B42 - 07b

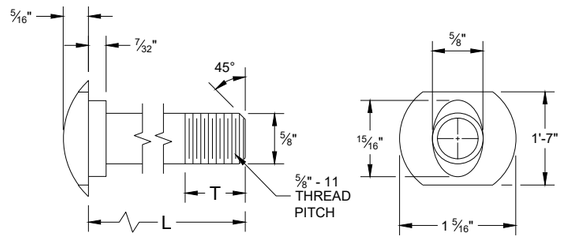


DETAIL FOR 16" BLOCKOUT DEPTH

IT IS ACCEPTABLE TO USE BLOCKOUTS UP TO 16" DEEP TO INCREASE THE POST OFFSET TO AVOID UNDERGROUND OBSTACLES. THERE IS NO LIMIT TO THE NUMBER OF POSTS THAT CAN HAVE ADDITIONAL BLOCKOUTS UP TO 16" DEEP.

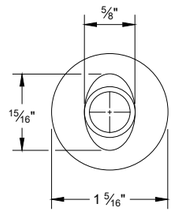
NOTE:

1. ALL FILLETS SHALL HAVE A MINIMUM RADIUS OF 3⁄16".
2. IF THE BOLT EXTENDS MORE THAN ¼" FROM THE NUT THE BOLT SHOULD BE TRIMMED BACK.

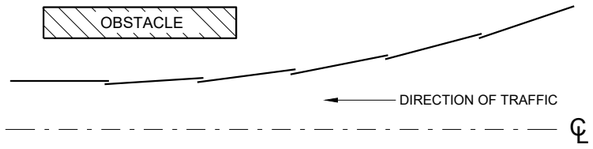


POST BOLT TABLE

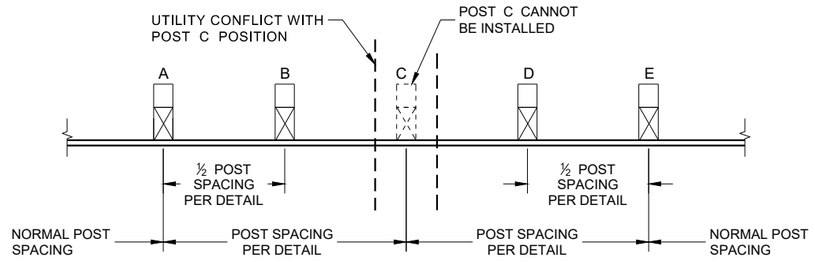
L	T (MIN.)
1 ¼"	1 ⅛"
2"	1 ¾"
10"	4"
14"	4 1⁄16"
18"	4"
21"	4 1⁄16"
25"	4"



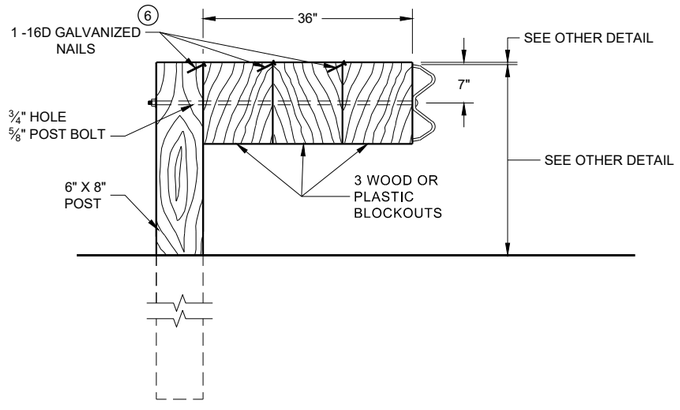
ALTERNATE BOLT HEAD



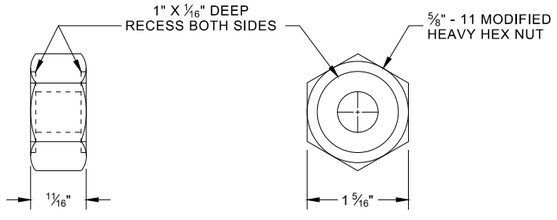
PLAN VIEW
BEAM LAPPING DETAIL



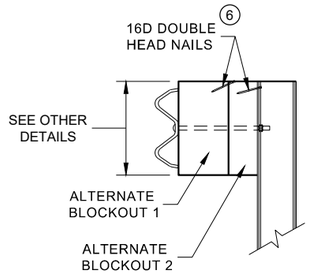
POST DRIVING FOR CONTINUOUS UNDERGROUND OBSTRUCTION



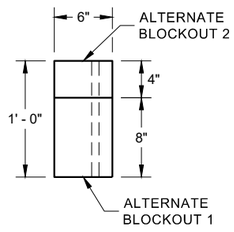
DETAIL FOR 36" BLOCKOUT DEPTH



POST BOLT, SPLICE BOLT AND RECESS NUT



SIDE VIEW



PLAN VIEW

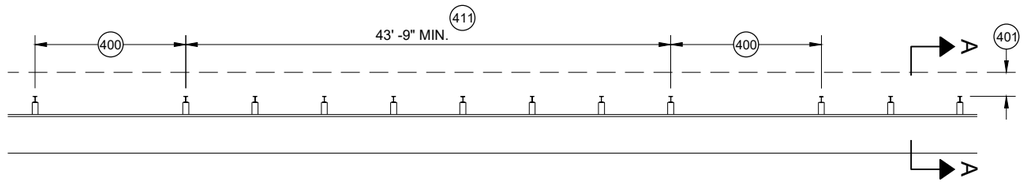
ALTERNATE WOOD BLOCKOUT DETAIL

NOTES: UNDER SPECIAL CIRCUMSTANCES, SUCH AS AVOIDING OBSTACLES THAT ARE NOT RELOCATED, IT IS ACCEPTABLE TO INSTALL ADDITIONAL BLOCKOUTS TO OBTAIN UP TO 36" DEPTH FOR ONE OR TWO POSTS IN A SECTION OF GUARDRAIL.

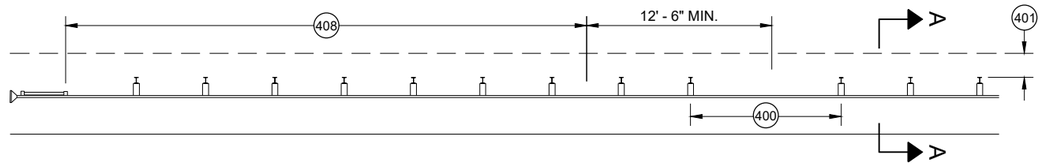
DO NOT USE 16" OR 36" BLOCKOUTS IF IT CAUSES THE POST TO BE DRIVEN BEYOND SHOULDER HINGE POINT OR CAUSES A FIXED OBJECT TO BE WITHIN THE DEFLECTION DISTANCE OF THE BARRIER.

(6) WHEN USING STEEL POST AD WOOD BLOCKOUTS, INSTALL FOUR 16D GALVANIZED NAILS. INSTALL NAILS AT THE BACK CORNERS OF THE BLOCK AND BEND THE NAILS OVER THE FLANGE OF THE STEEL POST.

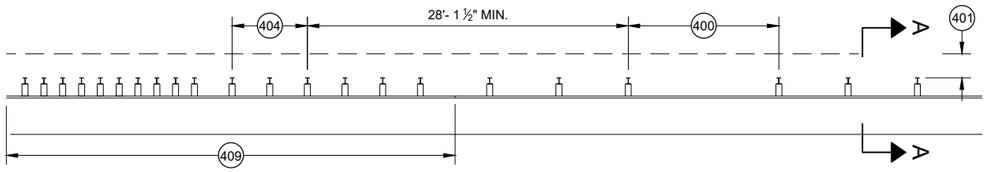
MIDWEST GUARDRAIL SYSTEM (MGS) GUARDRAIL



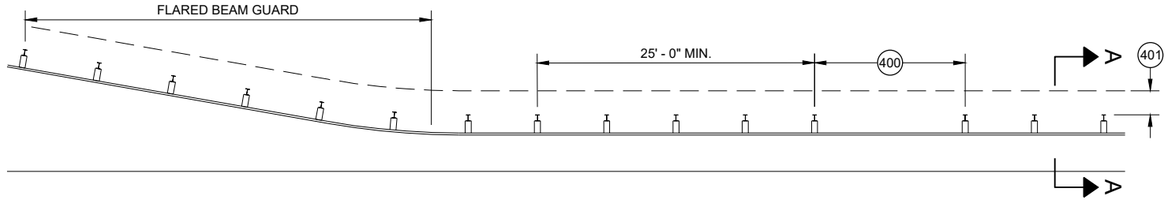
MISSING POST IN MGS GUARDRAIL



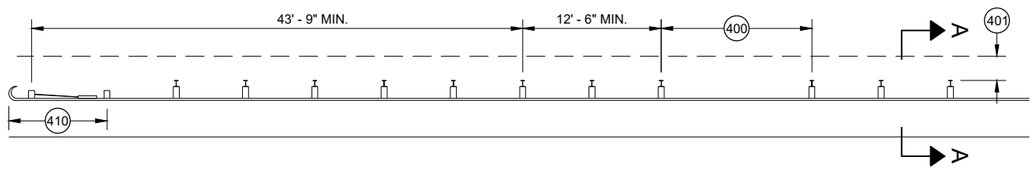
MISSING POST IN MGS GUARDRAIL NEAR EAT



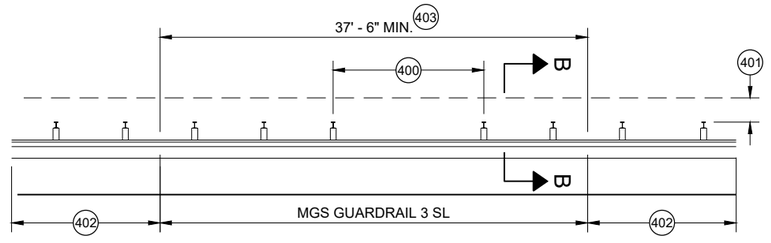
MISSING POST IN MGS GUARDRAIL NEAR AN APPROACH TRANSITION



MISSING POST IN MGS GUARDRAIL NEAR FLARED BEAM GUARD

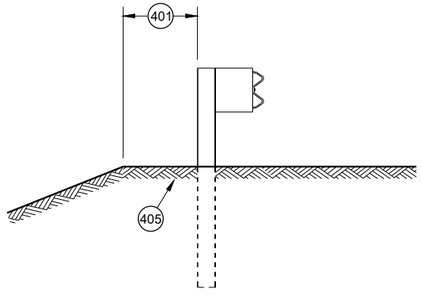


MISSING POST IN MGS GUARDRAIL NEAR A TYPE 2 END TERMINAL

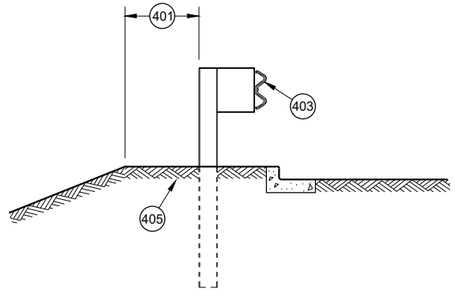


MISSING POST IN SHORT SPAN MGS GUARDRAIL NEAR CURB (SL) 407

(400) MAX SPAN 12' - 6"
(401) 2' MIN.
(402) MGS GUARDRAIL 3
(403) NESTING BEAM GUARD
(404) ASYMMETRIC TRANSITION
(405) SOIL WELL DRAINED AND COMPACTED
(406) SEE OTHER DRAWINGS IN THIS SDD
(407) SEE OTHER DRAWINGS FOR MIN. SPACING BETWEEN SPANS
(408) SEE SDD 14B44
(409) SEE SDD 14B45
(410) SEE SDD 14B47
(411) MINIMUM DISTANCE BETWEEN MISSING POST SPANS.



SECTION A - A 406



SECTION B - B 406

MIDWEST GUARDRAIL SYSTEM (MGS) GUARDRAIL

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
May 2021
DATE
/S/ Rodney Taylor
ROADWAY STANDARDS DEVE
UNIT SUPERVISOR

FHWA

6

SDD 14B42 - 07d

GENERAL NOTES

(A) THE SLOPE IN THE AREA BOUNDED BY THE GRADELINE, THE HINGE POINT LINE (HPL) AND THE CLEAR ZONE LIMITS (CZL) SHALL BE 4:1 OR FLATTER.

(B) AFTER FINAL ASSEMBLY, RECHECK CABLE TO BE SURE IT IS TAUT AND HAS NOT RELAXED

(C) DIFFERENT MANUFACTURERS REQUIRE DIFFERENT PERFORATED W - BEAM RAIL END PANELS. SEE MANUFACTURER'S INFORMATION.

(D) ATTACH ALUMINUM SHEET TO E.A.T. HEAD USING 4 STAINLESS STEEL SELF - TAPPING SCREWS. ONE SCREW PER CORNER.

(E) HARDWARE MAY VARY BETWEEN MANUFACTURER. SEE MANUFACTURER'S DRAWING FOR INFORMATION.

DIMENSIONS MAY VARY, MANUFACTURER'S INFORMATION.

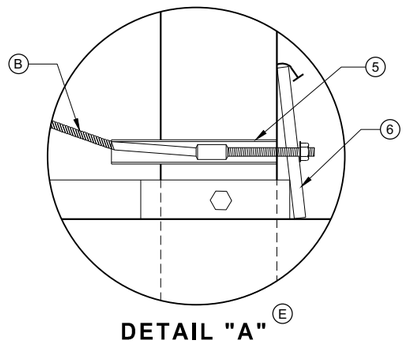
SEE SDD 14B42 FOR MORE INFORMATION.

* DO NOT ATTACH BLOCKOUTS TO POST 1 AND 2.

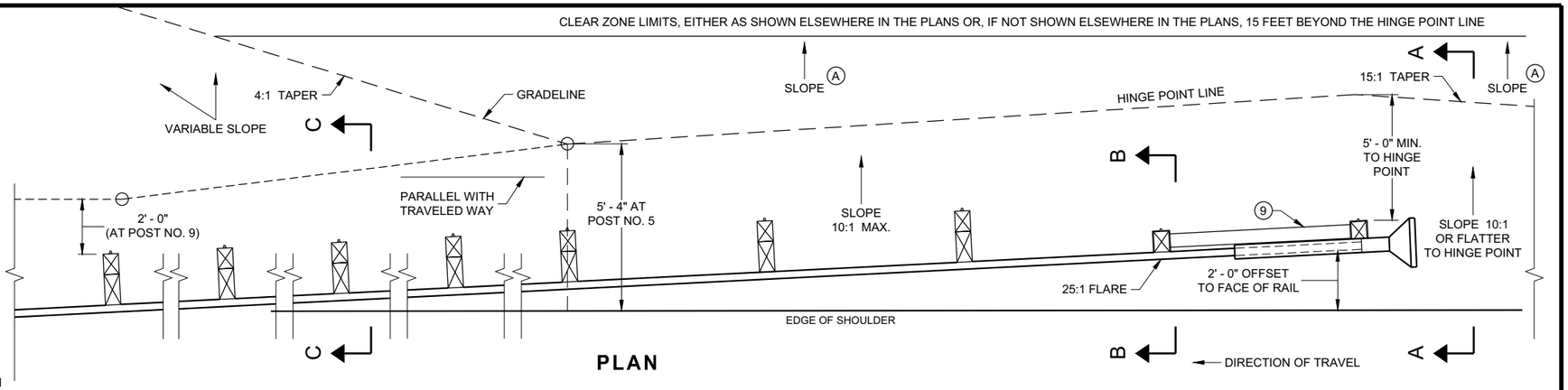
DO NOT INSTALL REFLECTORS ON THE FIRST 50 FEET OF THE APPROACH END OF THE ENERGY ABSORBING TERMINAL.

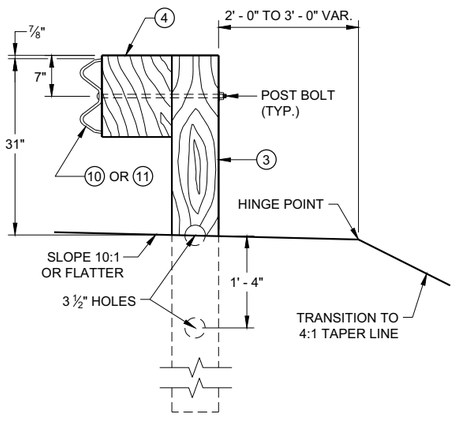
SEE MANUFACTURER'S DRAWING FOR SPLICE LOCATION, HARDWARE DIMENSIONS AND INSTALLATION INSTRUCTIONS.

THE CENTER OF THE UPPER 3 ½" DIAMETER HOLE ON POST NUMBER 3 THROUGH POST 9 IS TO BE FLUSH WITH THE GROUND LINE UP TO A MAXIMUM OF 2" ABOVE GROUND LINE. WOOD BLOCKS ON POSTS NUMBERED 3 THROUGH 9 MAY BE ADJUSTED UP TO 3" ABOVE THE TOP OF POST.

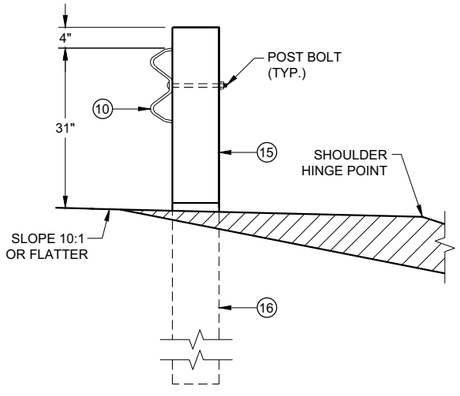


DETAIL "A" (E)

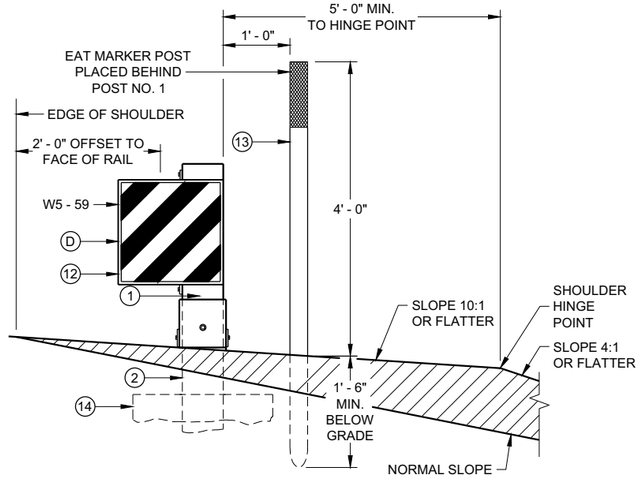




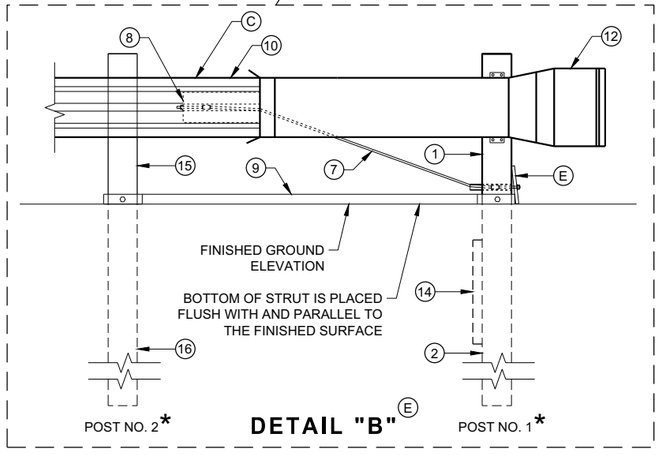
SECTION C - C
TYPICAL AT POST NOS. 3 - 9



SECTION B - B
TYPICAL AT POST NO. 2*



SECTION A - A
TYPICAL AT POST NO. 1*



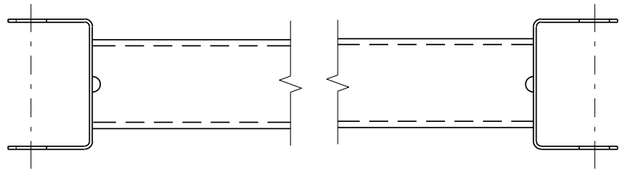
DETAIL "B" (E)

MIDWEST GUARDRAIL SYSTEM
ENERGY ABSORBING TERMINAL (MGS)

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

SDD 14B44 - 04a

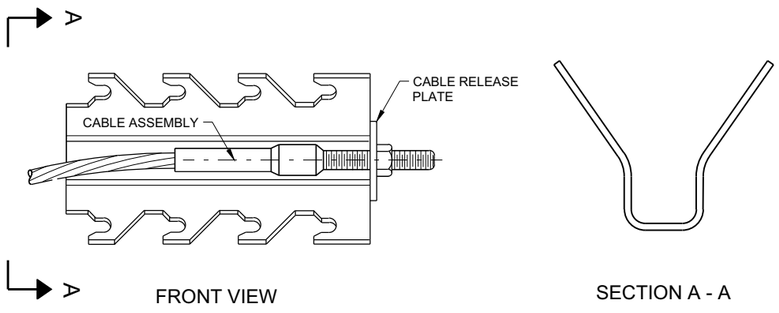
SDD 14B44 - 04a



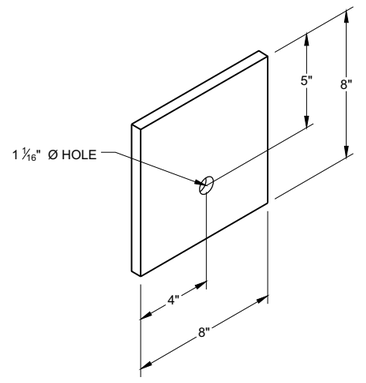
GENERIC GROUND STRUT ⑨ Ⓔ

BILL OF MATERIALS

PART NO.	DESCRIPTION MATERIALS PROVIDED BY MGS EAT MANUFACTURER. SEE MANUGACTURER'S DETAILS FOR MORE INFORMATION.
①	UPPER POST NO. 1 6" X 6" TUBE
②	LOWER POST NO. 1
③	WOOD CRT
④	WOOD BLOCKOUT
⑤	PIPE SLEEVE
⑥	BEARING PLATE
⑦	BCT CABLE ASSEMBLY
⑧	ANCHOR CABLE BOX
⑨	GROUND STRUT
⑩	PERFORATED W-BEAM RAIL END PANEL, 12'-6" LONG.
⑪	STANDARD W-BEAM RAIL. MULTIPLE SECTIONS REQUIRED. SECTIONS VARY IN LENGTH.
⑫	IMPACT HEAD
⑬	EAT MARKER POST - YELLOW (SEE APPROVED PRODUCTS LIST)
⑭	SOIL PLATE
⑮	UPPER POST NO. 2
⑯	LOWER POST NO. 2



GENERIC ANCHOR CABLE BOX ⑨ Ⓔ



BEARING PLATE ⑥ Ⓔ

6

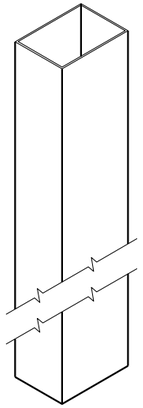
6

SDD 14B44 - 04b

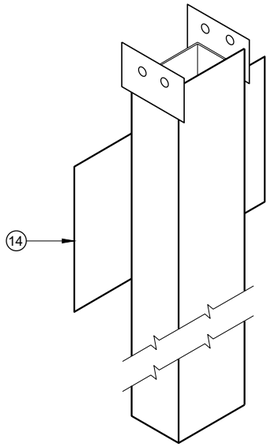
SDD 14B44 - 04b

MIDWEST GUARDRAIL SYSTEM
ENERGY ABSORBING TERMINAL
(MGS)

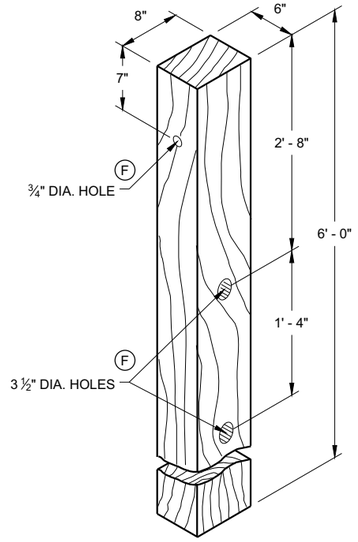
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION



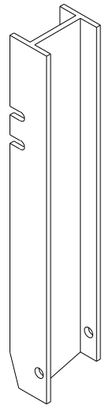
UPPER POST NO. 1 (1) (E)



LOWER POST NO. 1 (2) (E)



WOOD CRT POST (3) (E)
POSTS NUMBER 3-9



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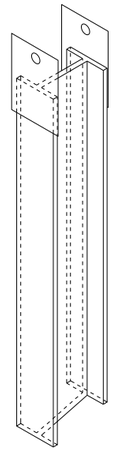

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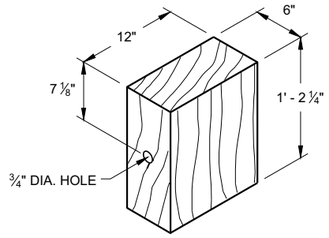
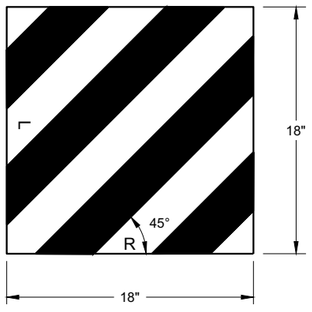
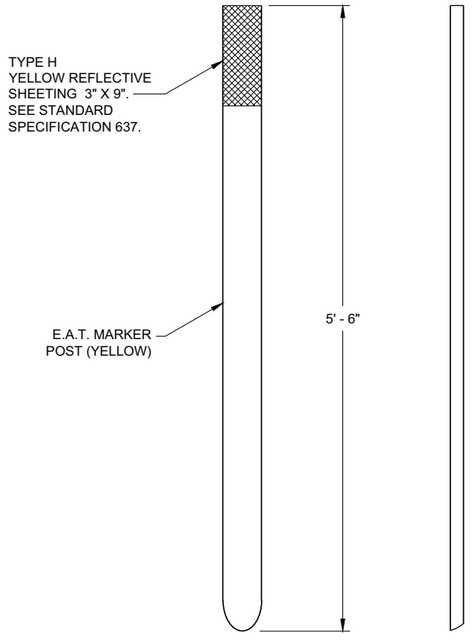


WOOD BLOCKOUT (4)
REQ'D. AT ALL POSTS EXCEPT POST NO'S 1 & 2



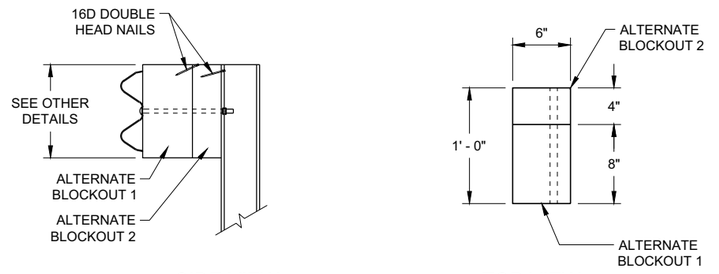
W5 - 59

REFLECTIVE SHEETING DETAIL (E)



FRONT VIEW SIDE VIEW

E.A.T. MARKER POST (13)



SIDE VIEW TOP VIEW

ALTERNATE WOOD BLOCKOUT DETAIL

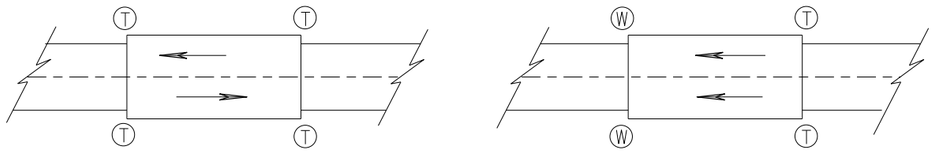
MIDWEST GUARDRAIL SYSTEM ENERGY ABSORBING TERMINAL (MGS)

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
7/2018
DATE
/S/ Rodney Taylor
ROADWAY STANDARDS DEVE UNIT SUPERVISOR
FHWA

6

SDD 14B44 - 04c



TWO WAY TRAFFIC

ONE WAY TRAFFIC

(T) THRIE BEAM CONNECTION

(W) W-BEAM CONNECTION WHEN REQUIRED

TYPICAL LOCATIONS OF THRIE BEAM AND W-BEAM CONNECTIONS TO BRIDGE

GENERAL NOTES

IF ROCK IS ENCOUNTERED, REMOVE ROCK TO FULL DEPTH OF POST PLUS 2½", AND 12" DIAMETER AROUND POST. SEE 14B42 FOR MORE DETAILS.

TRANSITION USES STEEL POSTS ONLY.

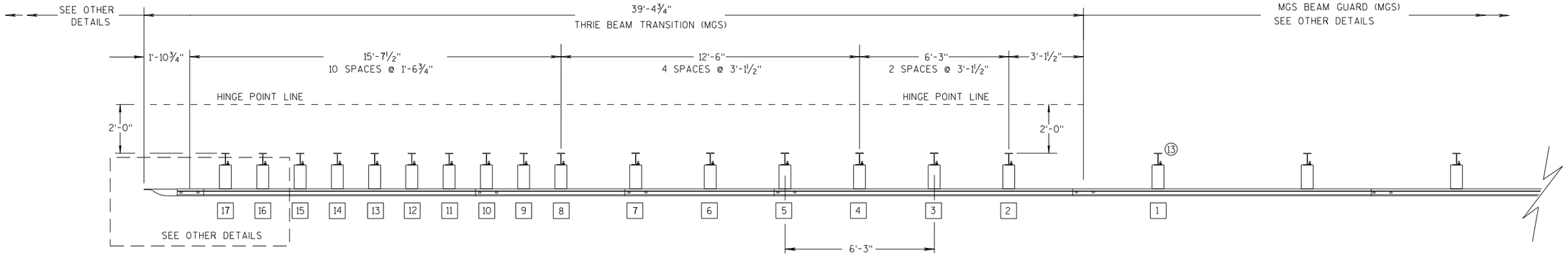
SEE STANDARD DETAIL DRAWING 14 B 42 FOR MORE INFORMATION.

POST 2 THROUGH 17 USES STEEL POST ONLY

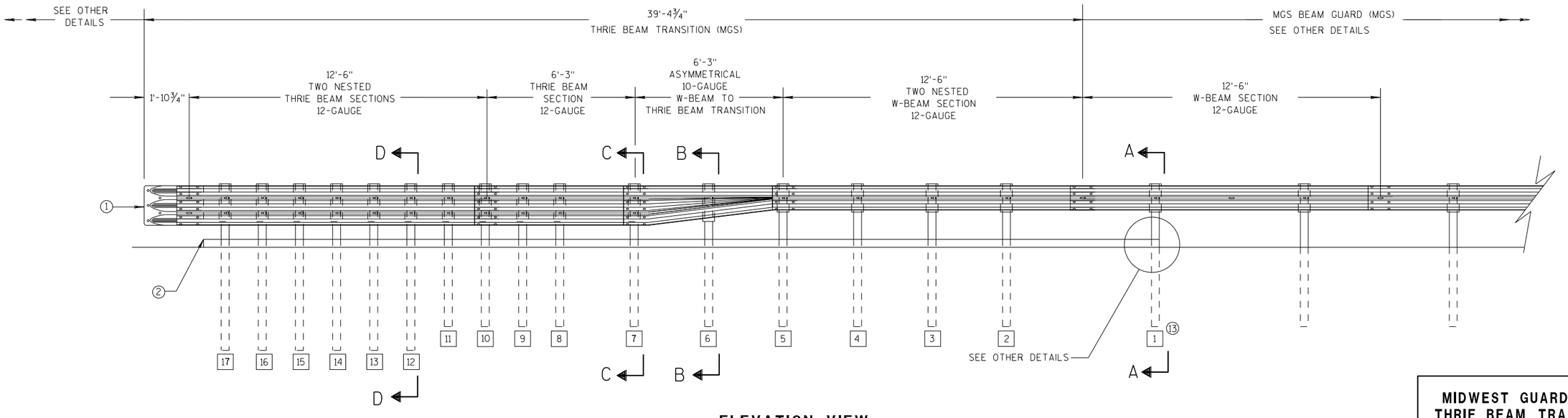
(1) BRIDGE RAILING TYPE "W" DOES NOT REQUIRE A TERMINAL CONNECTOR.

(2) OPTIONAL CURB AND GUTTER OR DRAINAGE FEATURE SEE PLAN FOR INFORMATION.

(13) STEEL OR WOOD POST IS ACCEPTABLE AT POST 1. SEE SDD14B42



PLAN VIEW



ELEVATION VIEW

MIDWEST GUARDRAIL SYSTEM THRIE BEAM TRANSITION

MIDWEST GUARDRAIL SYSTEM
THRIE BEAM TRANSITION (MGS)

STATE OF WISCONSIN
DEPARTMENT OF TRANSPOR

6

S.D.D. 14 B 45-5a

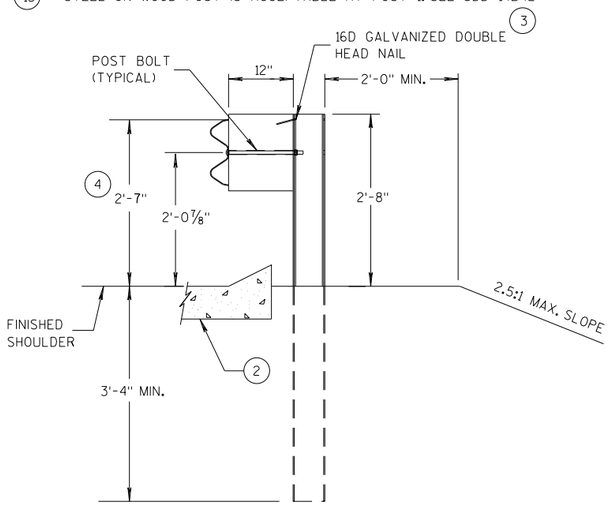
GENERAL NOTES

(2) OPTIONAL CURB AND GUTTER OR DRAINAGE FEATURE SEE PLAN FOR INFORMATION.

(3) WHEN USING STEEL POSTS AND WOOD BLOCKOUTS INSTALL FOUR 10D GALVANIZED NAILS. INSTALL NAILS AT THE BACK CORNERS OF THE BLOCK AND BEND THE NAILS OVER THE FLANGE OF THE STEEL POST.

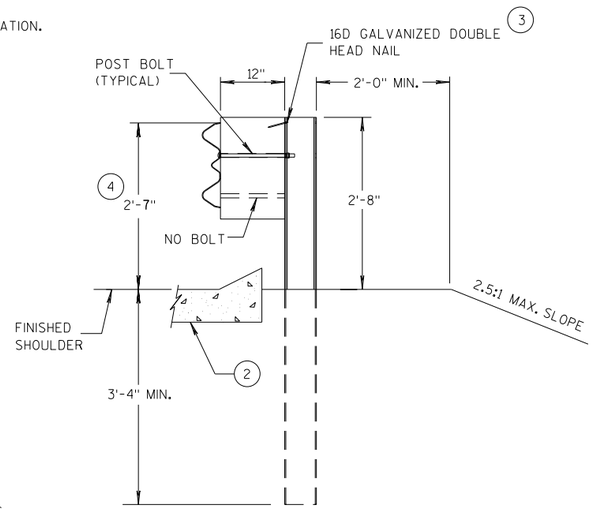
(4) TOLERANCE FOR TOP OF W-BEAM RAIL IS ± 1".

(13) STEEL OR WOOD POST IS ACCEPTABLE AT POST 1. SEE SDD 14B42



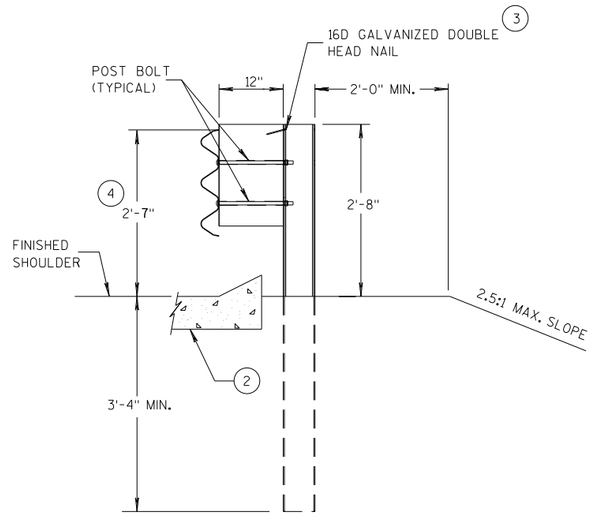
SECTION A-A (13)

POSTS 1-5



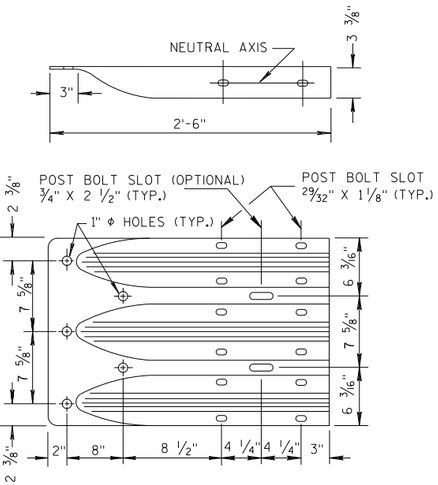
SECTION B-B

POST 6

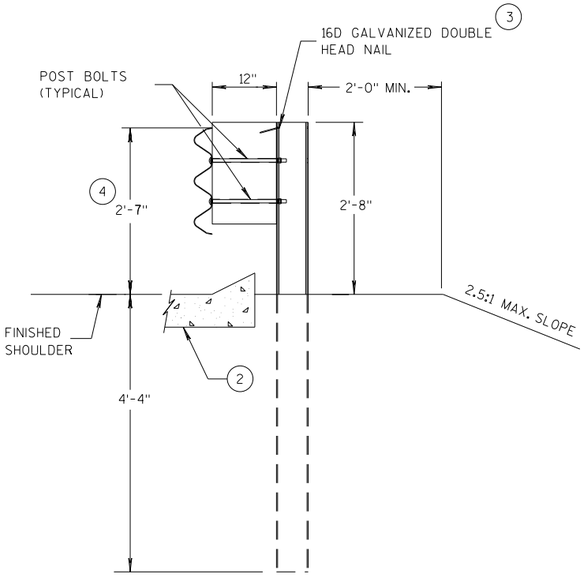


SECTION C-C

POSTS 7-11

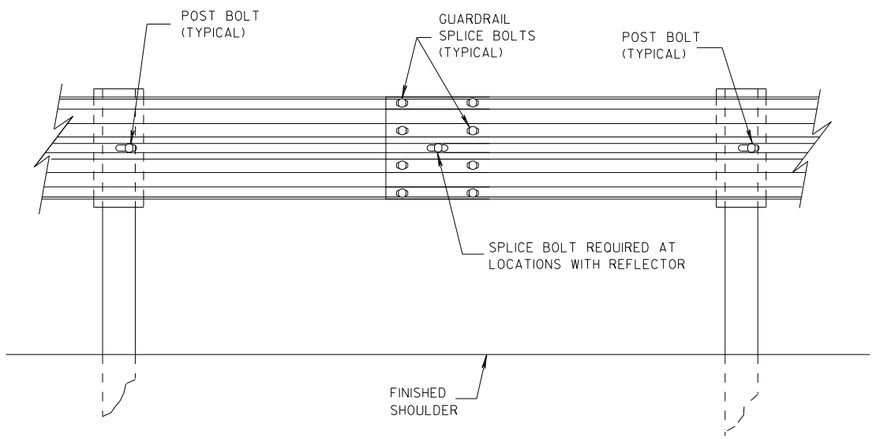


THRIE BEAM TERMINAL CONNECTOR



SECTION D-D

POSTS 12-17



SPLICE DETAIL

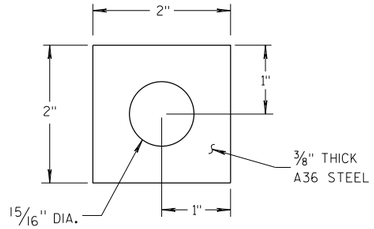
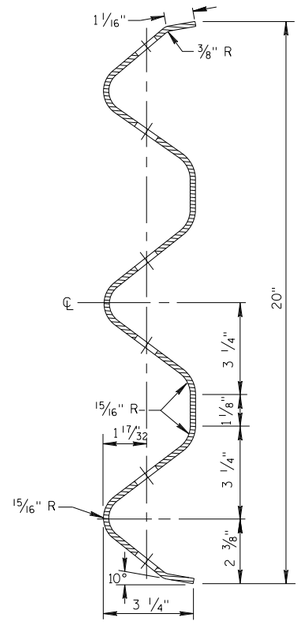


PLATE WASHER DETAIL



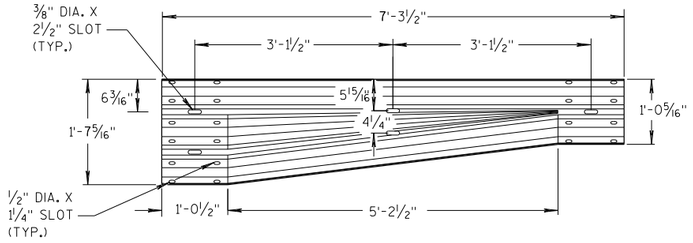
SECTION THRU THRIE BEAM RAIL ELEMENT

MIDWEST GUARDRAIL SYSTEM
THRIE BEAM TRANSITION (MGS)

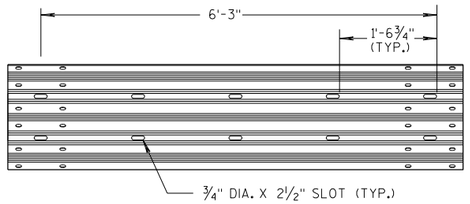
STATE OF WISCONSIN
DEPARTMENT OF TRANSPOF

6

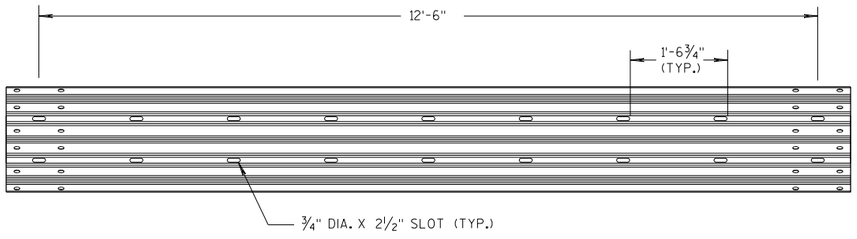
S.D.D. 14 B 45-5b



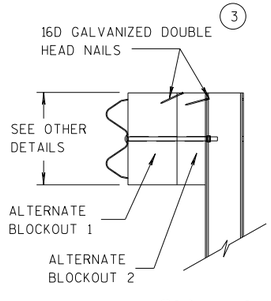
W-BEAM TO THRIE BEAM TRANSITION SECTION



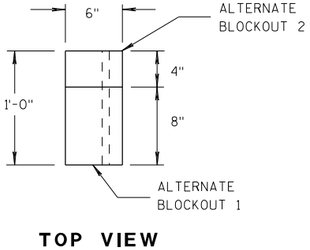
6'-3" THRIE BEAM SECTION



12'-6" THRIE BEAM SECTION

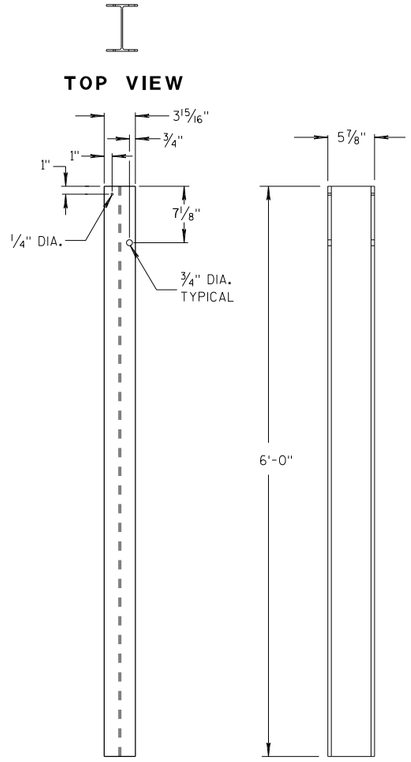


SIDE VIEW



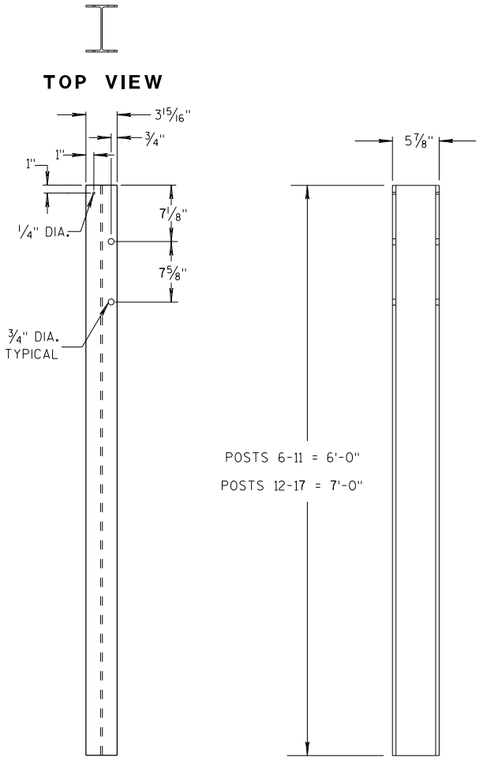
TOP VIEW

ALTERNATE WOOD BLOCKOUT DETAIL



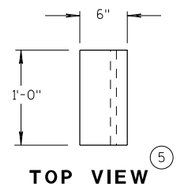
FRONT VIEW SIDE VIEW

STEEL POSTS 1-5 (13)

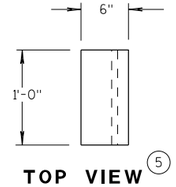


FRONT VIEW SIDE VIEW

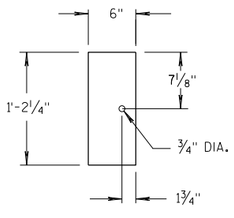
STEEL POSTS 6-17



TOP VIEW (5)

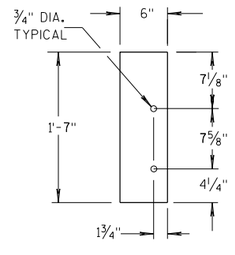


TOP VIEW (5)



FRONT VIEW

BLOCKOUT POSTS 1-5



FRONT VIEW

BLOCKOUT POSTS 6-17

GENERAL NOTES

STEEL POSTS ARE W6X9 OR W6X8.5.

BOLT HOLES FOR POST ARE ON FRONT AND OF SIDE OF POST.

(3) WHEN USING STEEL POSTS AND WOOD BLOCKOUTS INSTALL FOUR 16D GALVANIZED NAILS. INSTALL NAILS AT THE BACK CORNERS OF THE BLOCK AND BEND THE NAILS OVER THE FLANGE OF THE STEEL POST.

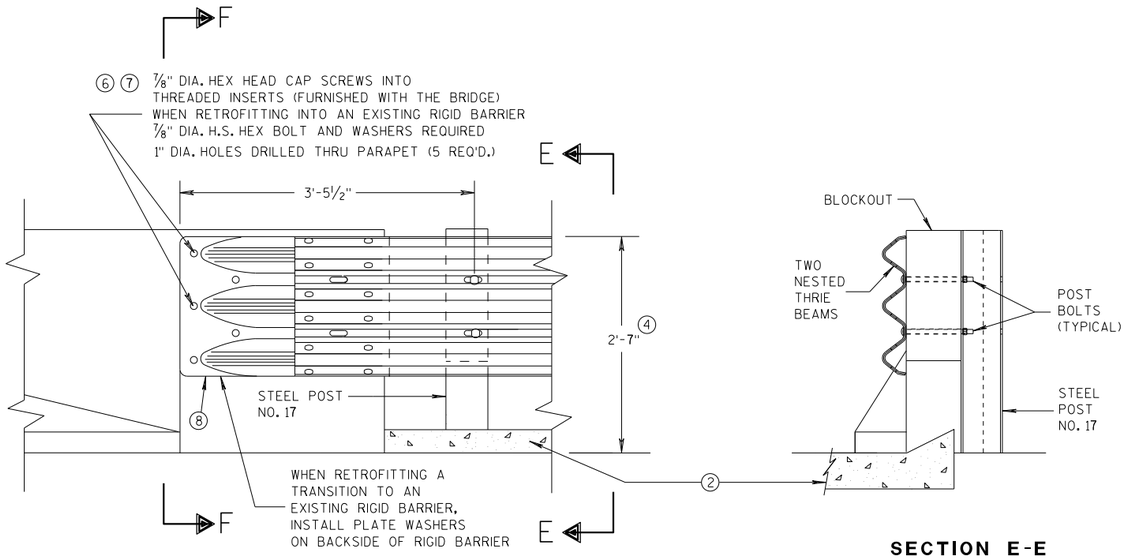
(5) WOOD BLOCKS MAY BE CONSTRUCTED OUT OF 2 WOOD BLOCKS. SEE ALTERNATE WOOD BLOCK DETAIL.

(13) STEEL OR WOOD POST IS ACCEPTABLE AT POST 1. SEE SDD 14B42.

MIDWEST GUARDRAIL SYSTEM
THRIE BEAM TRANSITION (MGS)

STATE OF WISCONSIN
DEPARTMENT OF TRANSPOR 218

6
S.D.D. 14 B 45-5c



FRONT VIEW

SECTION E-E

THRIE BEAM CONNECTION TO BRIDGE PARAPET WITH SQUARE ENDS

GENERAL NOTES

THESE ARE TYPICAL CONNECTION DETAILS. ADJUST THE POSTION OF CONNECTIONS TO EXISTING BRIDGES TO FIT THE ACTUAL BRIDGE AND SITE DIMENSIONS.

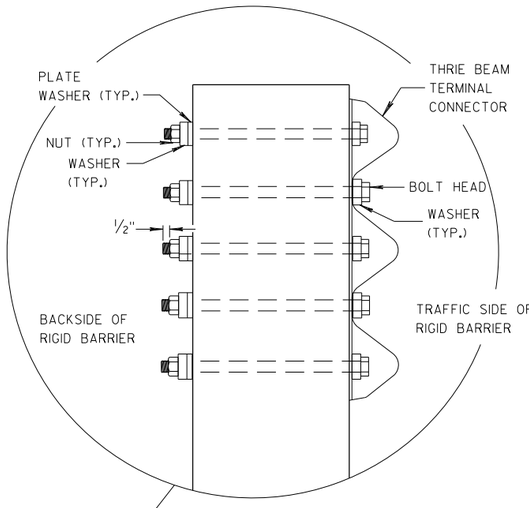
② OPTIONAL CURB AND GUTTER OR DRAINAGE FEATURE SEE PLAN FOR INFORMATION.

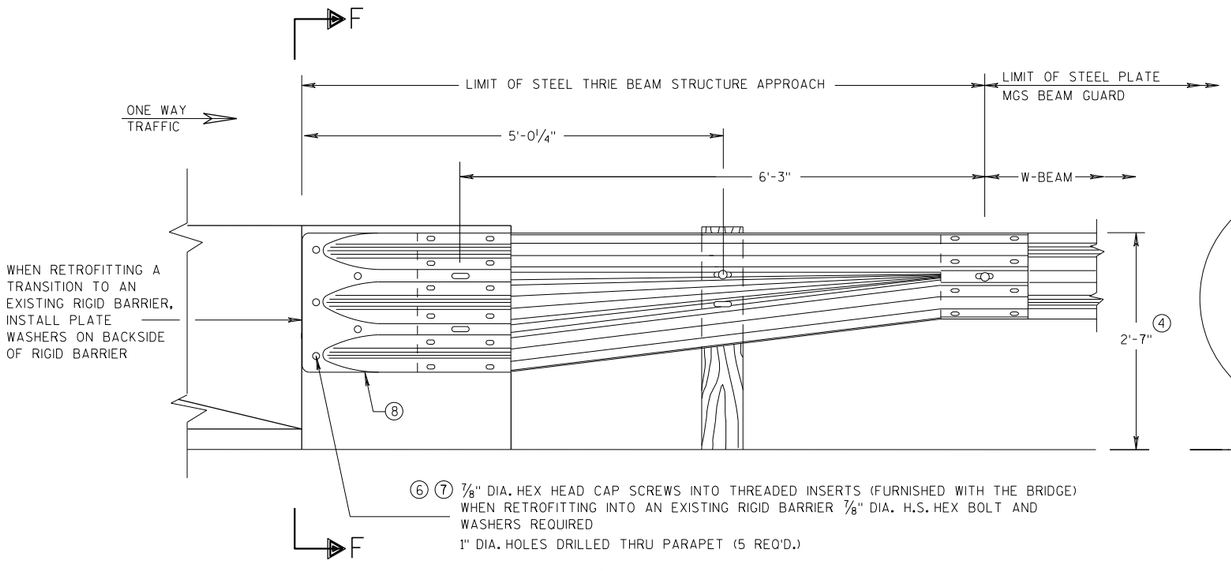
④ TOLERANCE FOR TOP OF BEAM IS ± 1".

⑥ DRILLING BOLT HOLES THROUGH THE PARAPET, BOLTS, NUTS, WASHERS AND REPAIRING DAMAGED CONCRETE ARE INCIDENTAL TO THE CONTRACT.

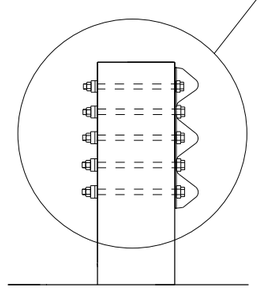
⑦ BOLTS MAY BE A325 BOLTS OR A449 BOLTS. BOLT LENGTH AND THREADING LENGTH ARE TO ALLOW FOR A TIGHT CONNECTION BETWEEN RIGID BARRIER AND THRIE BEAM CONNECTION PLATE. CONTRACTOR IS TO FIELD VERIFY BOLT LENGTH AND THREAD LENGTH. ONE ROUND WASHER REQUIRED BETWEEN BOLT HEAD AND THRIE BEAM CONNECTOR PLATE. BOLTS THAT EXTEND THROUGH THE PARAPET AND OUT THE BACK FACE REQUIRE A HARDENED ROUND STEEL WASHER THAT IS 2" O.D. X 5/32" THICK AND ONE PLATE WASHER. REPAIR ANY DAMAGED CONCRETE FROM BOLT INSTALLATION.

⑧ THE RECESS FOR A W-BEAM CONNECTION, WHICH EXISTS ON SOME PARAPETS OF THIS TYPE, SHALL BE FILLED WITH A TREATED TIMBER BLOCKOUT. BLOCKOUT SIZE IS 1'-6" X 2'-0" X 3 1/2".

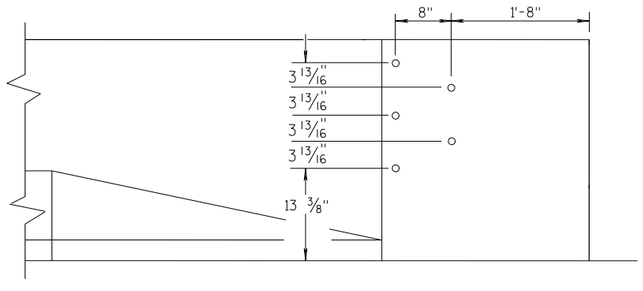




FRONT VIEW



SECTION F-F



DRILL HOLE LOCATION

W BEAM TRANSITION AND CONNECTION TO BRIDGE PARAPETS WITH SQUARE ENDS

(USE ONLY ON THE TRAFFIC EXIT END OF ONE WAY BRIDGES)

MIDWEST GUARDRAIL SYSTEM
THRIE BEAM TRANSITION (MGS)

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
07/2018
DATE
/S/ Rodney Taylor
ROADWAY STANDARDS D UNIT SUPERVI NT
FHWA

6

S.D.D. 14 B 45-5d

6

S.D.D. 14 B 45-5d

GENERAL NOTES

THESE ARE TYPICAL CONNECTION DETAILS. ADJUST THE POSTION OF CONNECTIONS TO EXISTING BRIDGES TO FIT THE ACTUAL BRIDGE AND SITE DIMENSIONS.

(2) OPTIONAL CURB AND GUTTER OR DRAINAGE FEATURE SEE PLAN FOR INFORMATION.

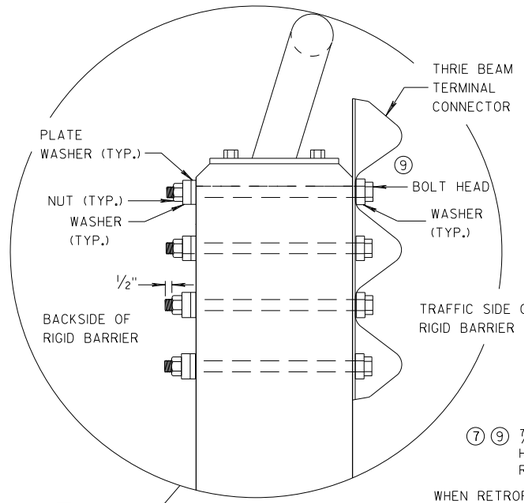
(4) TOLERANCE FOR TOP OF BEAM IS ± 1".

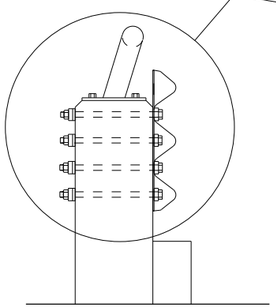
(6) DRILLING BOLT HOLES THROUGH THE PARAPET, BOLTS, NUTS, WASHERS AND REPAIRING DAMAGED CONCRETE ARE INCIDENTAL TO THE CONTRACT.

(7) BOLTS MAY BE A325 BOLTS OR A449 BOLTS. BOLT LENGTH AND THREADING LENGTH ARE TO ALLOW FOR A TIGHT CONNECTION BETWEEN RIGID BARRIER AND THRIE BEAM CONNECTION PLATE. CONTRACTOR IS TO FIELD VERIFY BOLT LENGTH AND THREAD LENGTH. ONE ROUND WASHER REQUIRED BETWEEN BOLT HEAD AND THRIE BEAM CONNECTOR PLATE. BOLTS THAT EXTEND THROUGH THE PARAPET AND OUT THE BACK FACE REQUIRE A HARDENED ROUND STEEL WASHER THAT IS 2" O.D. X 5/32" THICK AND ONE PLATE WASHER. REPAIR ANY DAMAGED CONCRETE FROM BOLT INSTALLATION.

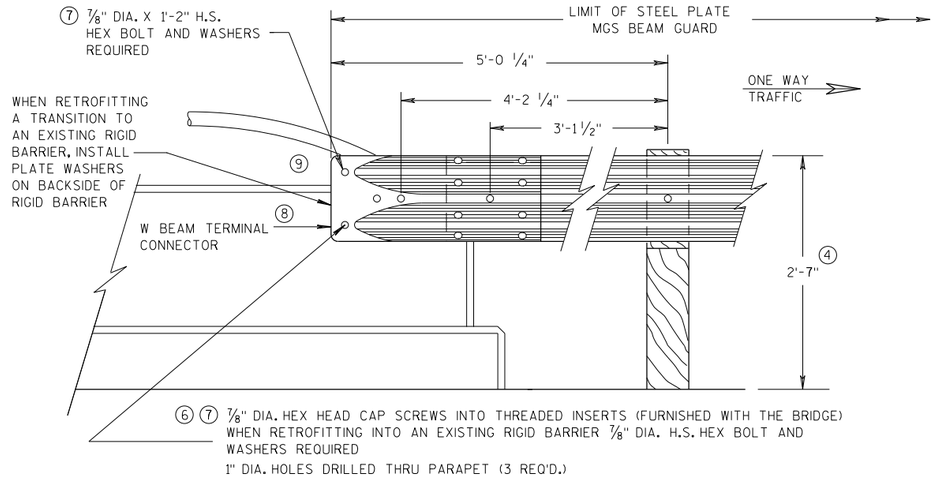
(8) THE RECESS FOR A W-BEAM CONNECTION, WHICH EXISTS ON SOME PARAPETS OF THIS TYPE, SHALL BE FILLED WITH A TREATED TIMBER BLOCKOUT. BLOCKOUT SIZE IS 1'-6" X 2'-0" X 3 ½".

(9) BOLT, NUT AND WASHERS NOT REQUIRED FOR THIS LOCATION WHEN RETROFITTING AN EXISTING PAPAPET AND THE HOLE IS EITHER ABOVE PARAPET OR WITHIN 4 INCHES OF THE EDGE OF PARAPET.





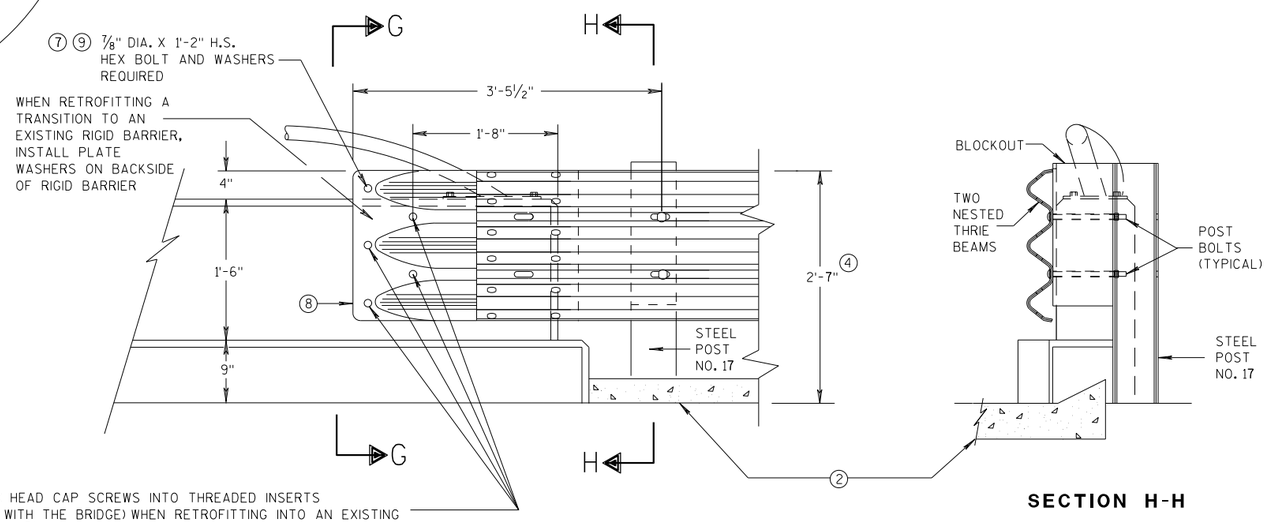
SECTION G-G



FRONT VIEW

W BEAM CONNECTION TO VERTICAL FACE PARAPET

(USE ONLY ON THE TRAFFIC EXIT END OF ONE WAY BRIDGES)



FRONT VIEW

SECTION H-H

THRIE BEAM CONNECTION TO VERTICAL FACED PARAPETS

MIDWEST GUARDRAIL SYSTEM
THRIE BEAM TRANSITION (MGS)

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
07/2018 — DATE
/S/ Rodney Taylor
ROADWAY STANDARDS D UNIT SUPERVIS — NT
FHWA

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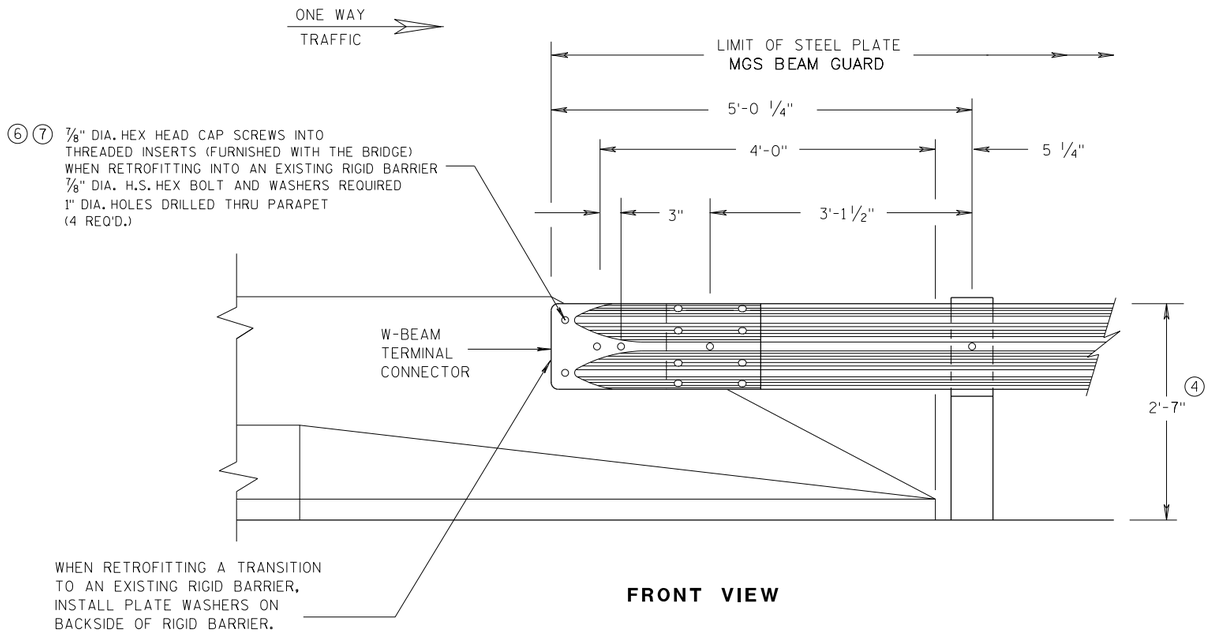
S.D.D. 14 B 45-5e

6

S.D.D. 14 B 45-5e



FRONT VIEW

W BEAM CONNECTION TO PARAPETS WITH SLOPED ENDS

(USE ONLY AT TRAFFIC EXIT END OF ONE WAY BRIDGE)

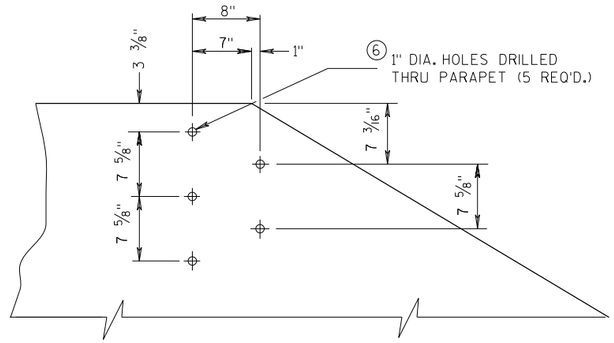
GENERAL NOTES

② OPTIONAL CURB AND GUTTER OR DRAINAGE FEATURE SEE PLAN FOR INFORMATION.

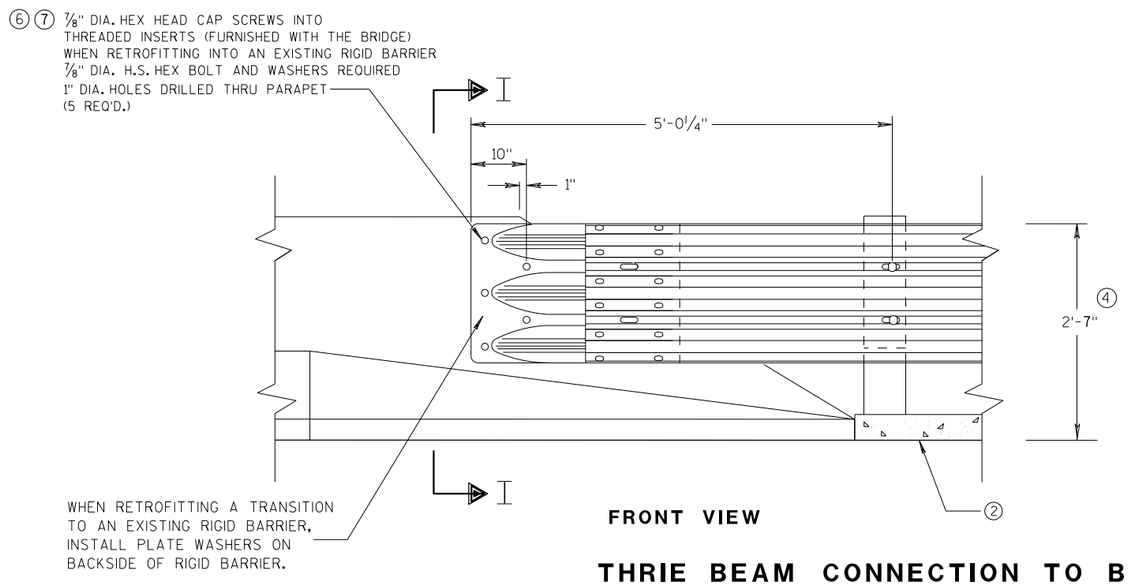
④ TOLERANCE FOR TOP OF BEAM IS ± 1".

⑥ DRILLING BOLT HOLES THROUGH THE PARAPET, BOLTS, NUTS, WASHERS AND REPAIRING DAMAGED CONCRETE ARE INCIDENTAL TO THE CONTRACT.

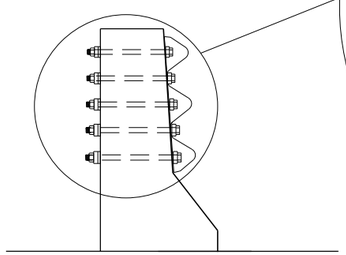
⑦ BOLTS MAY BE A325 BOLTS OR A449 BOLTS. BOLT LENGTH AND THREADING LENGTH ARE TO ALLOW FOR A TIGHT CONNECTION BETWEEN RIGID BARRIER AND THRIE BEAM CONNECTION PLATE. CONTRACTOR IS TO FIELD VERIFY BOLT LENGTH AND THREAD LENGTH. ONE ROUND WASHER REQUIRED BETWEEN BOLT HEAD AND THRIE BEAM CONNECTOR PLATE. BOLTS THAT EXTEND THROUGH THE PARAPET AND OUT THE BACK FACE REQUIRE A HARDENED ROUND STEEL WASHER THAT IS 2" O.D. X 5/32" THICK AND ONE PLATE WASHER. REPAIR ANY DAMAGED CONCRETE FROM BOLT INSTALLATION.



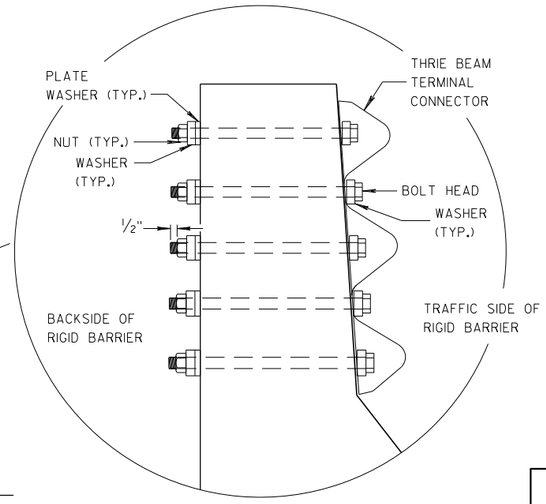
DRILL HOLE LOCATION AND PATTERN FOR THRIE BEAM CONNECTION



FRONT VIEW



SECTION I-I



THRIE BEAM CONNECTION TO BRIDGE PARAPETS WITH SLOPED ENDS

MIDWEST GUARDRAIL SYSTEM
THRIE BEAM TRANSITION (MGS)

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
07/2018
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ROADWAY STANDARDS [illegible]ENT
UNIT SUPERVI
FHWA

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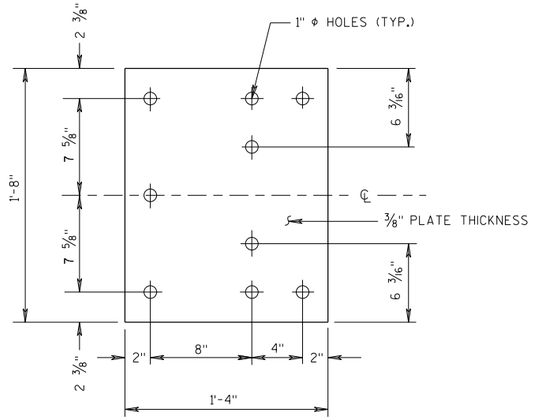
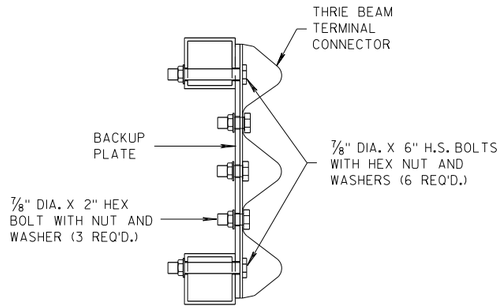
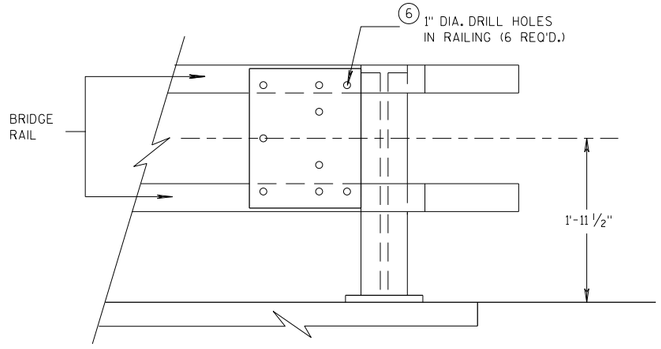


BACK-UP PLATE DETAIL



SECTION J-J

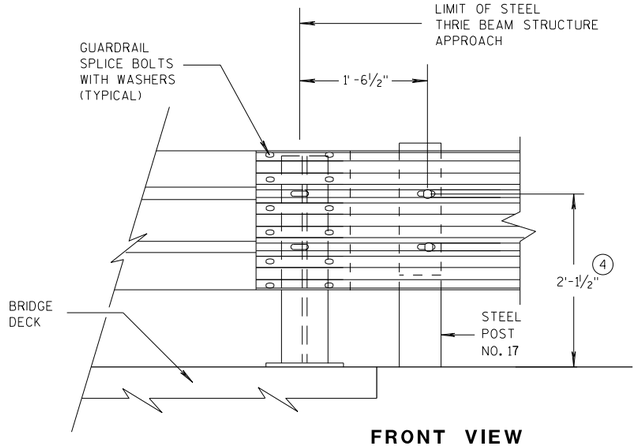


BACK-UP PLATE MOUNTING ONTO BRIDGE RAILING

GENERAL NOTES

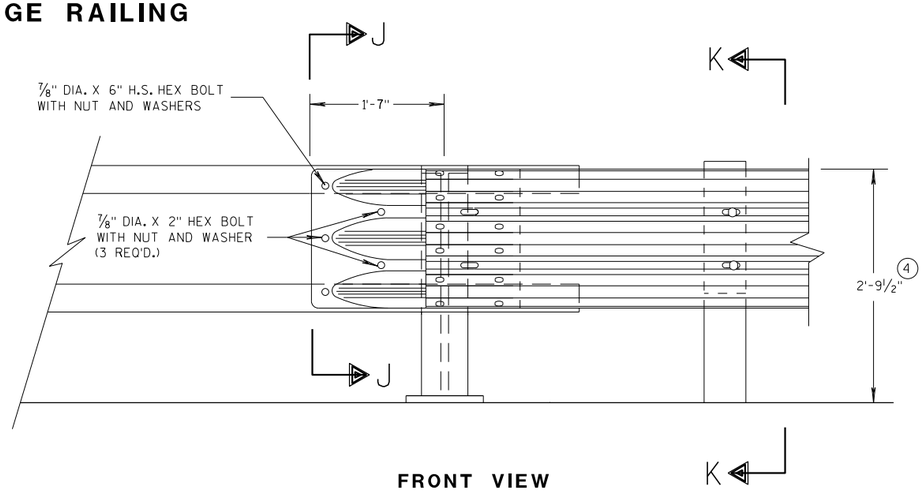
④ TOLERANCE FOR TOP OF BEAM IS ± 1".

⑥ DRILLING HOLES THROUGH THE PAPRPET, BOLTS, NUTS, WASHERS AND REPAIRING DAMAGED CONCRETE ARE INCIDENTAL TO THE CONTRACT.

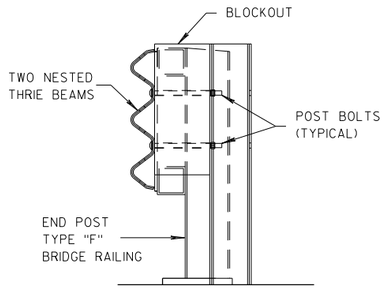


FRONT VIEW

THRIE BEAM CONNECTION TO STEEL RAILING TYPE "W"



FRONT VIEW



SECTION K-K

THRIE BEAM CONNECTION TO TUBULAR RAILING TYPE "F"

MIDWEST GUARDRAIL SYSTEM
THRIE BEAM TRANSITION (MGS)

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

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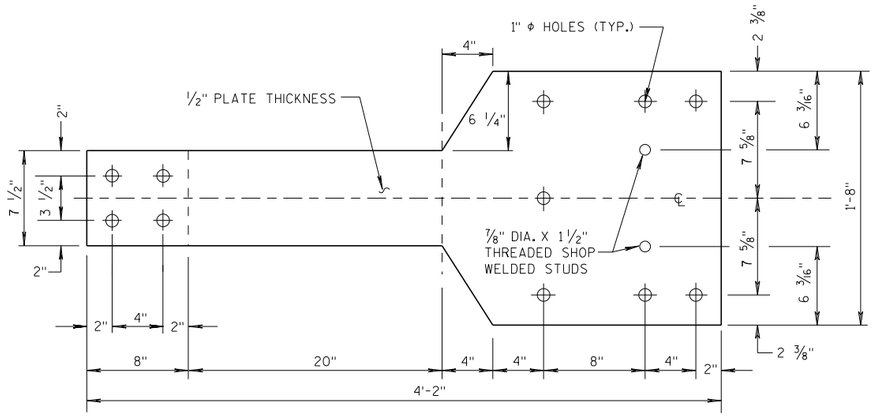
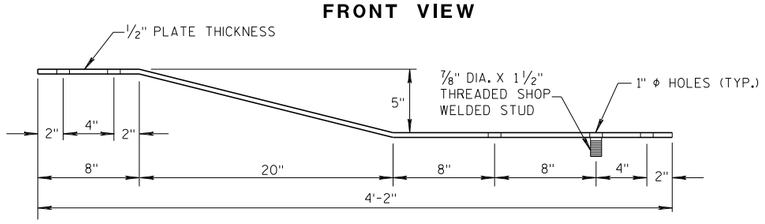
GENERAL NOTES

(4) TOLERANCE FOR TOP OF W-BEAM RAIL IS ± 1".

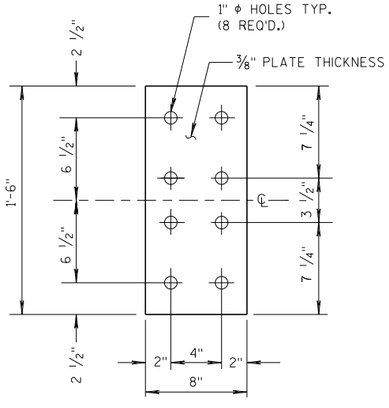


FRONT VIEW



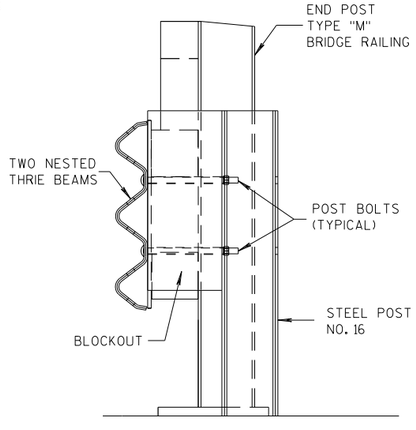
PLAN VIEW

BACK-UP PLATE DETAIL, TYPE "M"

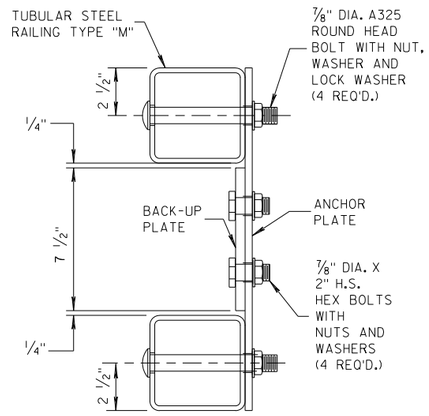


FRONT VIEW

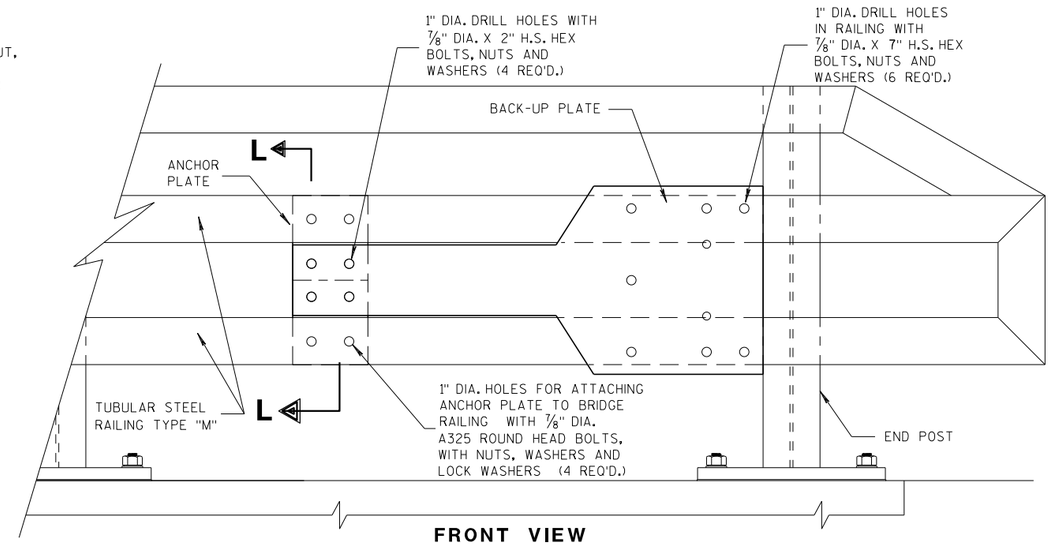
ANCHOR PLATE DETAIL, TYPE "M"



SECTION M-M

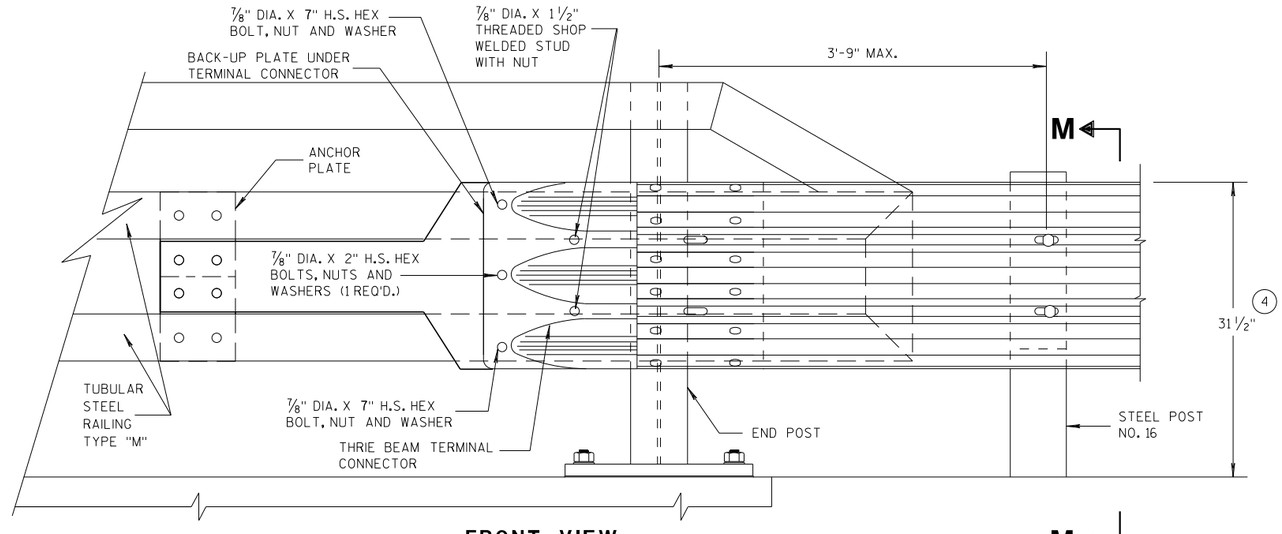


SECTION L-L

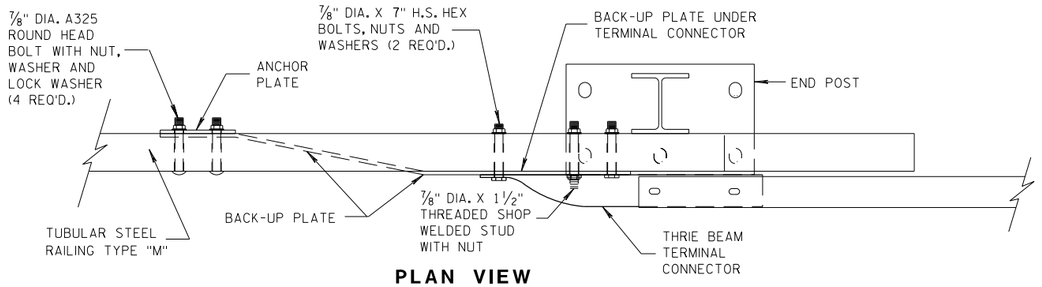


FRONT VIEW

ANCHOR AND BACK-UP PLATE MOUNTING TO BRIDGE RAILING, TYPE "M"



FRONT VIEW



PLAN VIEW

THRIE BEAM CONNECTION TO TUBULAR RAILING, TYPE "M"

MIDWEST GUARDRAIL SYSTEM
THRIE BEAM TRANSITION (MGS)

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

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07/2018 — DATE
/S/ Rodney Taylor — ROADWAY STANDARDS UNIT SUPERVI
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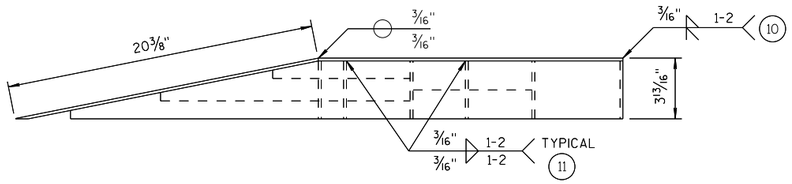

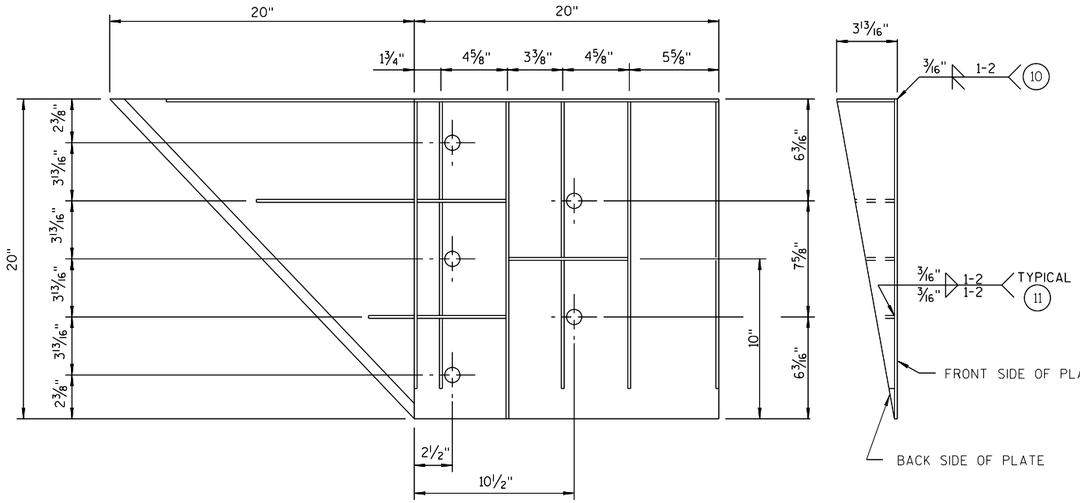

WELDING INSTRUCTION

(VIEWED FROM BACK SIDE OF PLATE)

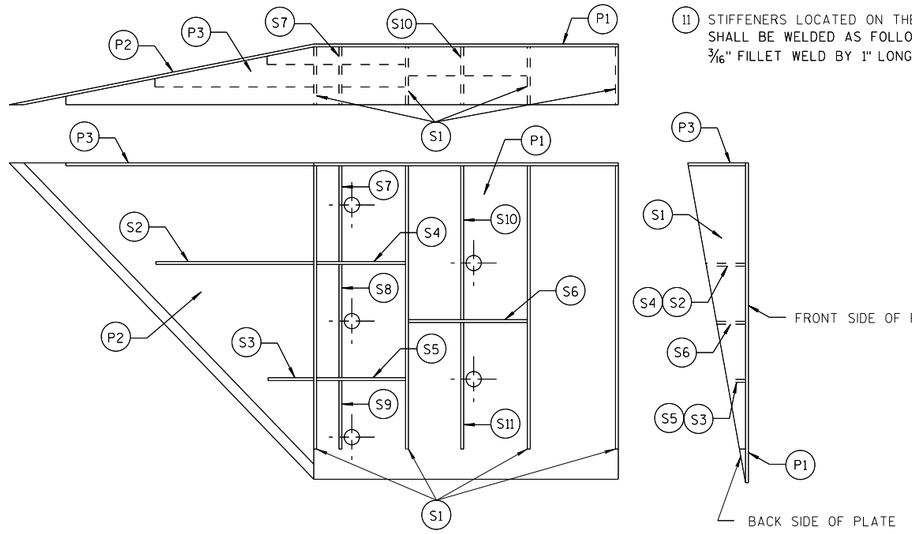

PLATE AND STIFFENER IDENTIFICATION

(VIEWED FROM BACK SIDE OF PLATE)

GENERAL NOTES

COVER PLATE PANELS ARE 3/16" THICK.

ALL STIFFENERS ARE 1/4" THICK.

CONNECTOR PLATE SHALL BE FABRICATED FROM ASTM GRADE A36 STEEL AND GALVANIZED.

FOR GALVANIZED REQUIREMENTS, SEE SECTION 614 OF THE STANDARD SPECIFICATIONS.

ALL HOLE DIAMETERS SHALL BE 1".

FOR OPPOSITE SIDE INSTALLATION MIRROR DRAWINGS.

(10) STIFFENERS LOCATED AT THE OUTSIDE EDGES OF THE COVER PLATES SHALL BE WELDED AS FOLLOWS:
SINGLE BEVEL GROOVE WELD ON EXTERNAL SIDES AND 3/16" FILLET WELD BY 1" LONG SPACED AT 2" ON INTERNAL SIDES.

(11) STIFFENERS LOCATED ON THE INSIDE OF THE COVER PLATE SHALL BE WELDED AS FOLLOWS:
3/16" FILLET WELD BY 1" LONG SPACED AT 2".

CONNECTOR PLATE DIMENSION (PER ASSEMBLY)

PLATE	QUANTITY	SHAPE	SIZE (A x B x C x D)	THICKNESS
P1	1		20" x 20"	3/16"
P2	1		20" x 20" x 28 9/16"	3/16"
P3	1		39" x 3 5/8" x 20" x 19 5/16"	3/16"
S1	4		18 7/16" x 3 5/8" x 18 3/4"	1/4"
S2	1		10 1/4" x 2 7/16" x 10 3/8" x 1/2"	1/4"
S3	1		3" x 1 1/16" x 3 1/8" x 1/2"	1/4"
S4	1		6 1/8" x 2 7/16"	1/4"
S5	1		6 1/8" x 1 1/16"	1/4"
S6	1		7 3/4" x 1 3/4"	1/4"
S7	1		2 9/16" x 6" x 3 5/8" x 5 7/8"	1/4"
S8	1		1 5/32" x 7 1/2" x 2 1/2" x 7 3/8"	1/4"
S9	1		6 1/16" x 6 3/16" x 1 3/32"	1/4"
S10	1		1 7/8" x 9 7/8" x 3 5/8" x 9 11/16"	1/4"
S11	1		8 1/2" x 8 3/4" x 1 13/16"	1/4"

SINGLE SLOPE CONNECTION PLATE

MIDWEST GUARDRAIL SYSTEM
THRIE BEAM TRANSITION (MGS)

STATE OF WISCONSIN
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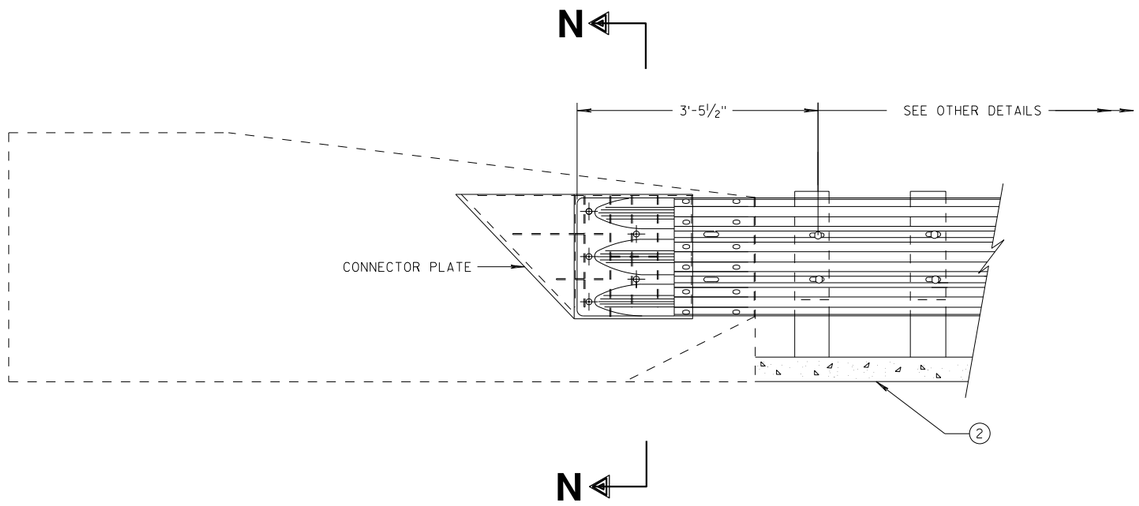
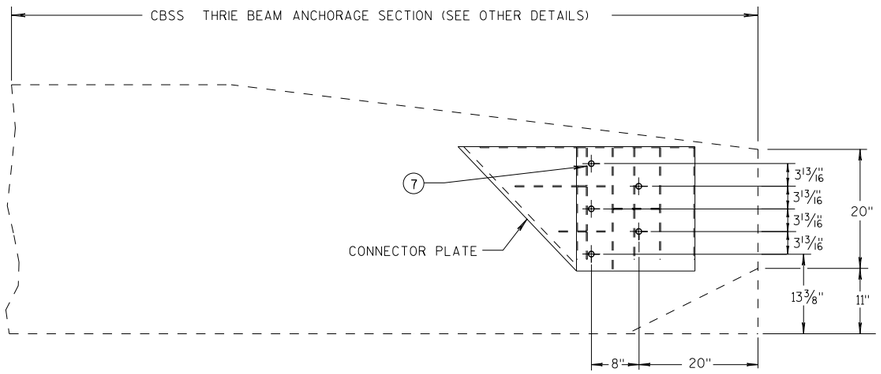


THRIE BEAM CONNECTION TO SINGLE SLOPE BARRIER



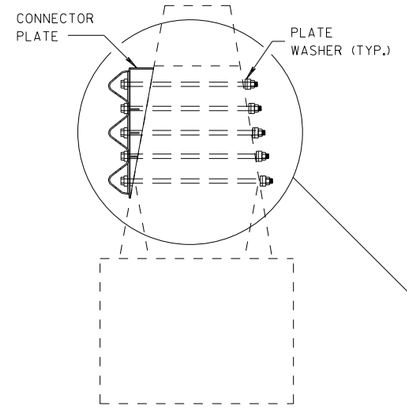
SINGLE SLOPE CONNECTION PLATE PLACEMENT

GENERAL NOTES

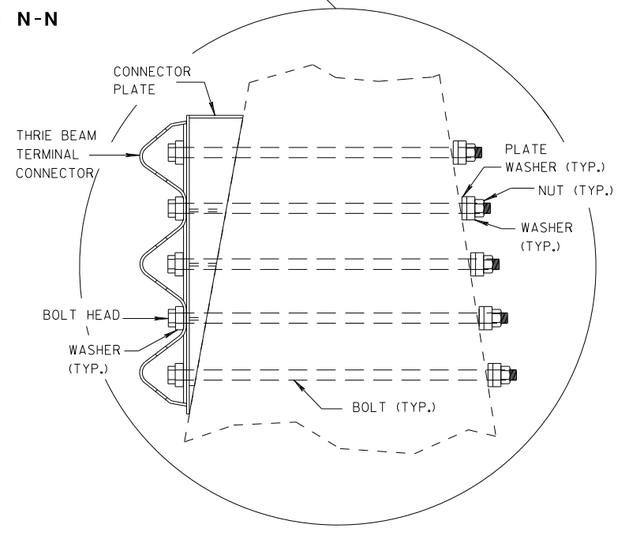
CONNECTOR PLATE, DRILLING BOLT HOLES THROUGH THE PARAPET, BOLTS, NUTS, WASHERS AND REPAIRING DAMAGED CONCRETE ARE INCIDENTAL TO THE CONTRACT.

(2) OPTIONAL CURB AND GUTTER OR DRAINAGE FEATURE SEE PLAN FOR INFORMATION.

(7) BOLTS MAY BE A325 BOLTS OR A449 BOLTS. BOLT LENGTH AND THREADING LENGTH ARE TO ALLOW FOR A TIGHT CONNECTION BETWEEN RIGID BARRIER AND THRIE BEAM CONNECTION PLATE. CONTRACTOR IS TO FIELD VERIFY BOLT LENGTH AND THREAD LENGTH. ONE ROUND WASHER REQUIRED BETWEEN BOLT HEAD AND THRIE BEAM CONNECTOR PLATE. BOLTS THAT EXTEND THROUGH THE PARAPET AND OUT THE BACK FACE REQUIRE A HARDENED ROUND STEEL WASHER THAT IS 2" O.D. X 5/32" THICK AND ONE PLATE WASHER. REPAIR ANY DAMAGED CONCRETE FROM BOLT INSTALLATION.



SECTION N-N



MIDWEST GUARDRAIL SYSTEM
THRIE BEAM TRANSITION (MGS)

STATE OF WISCONSIN
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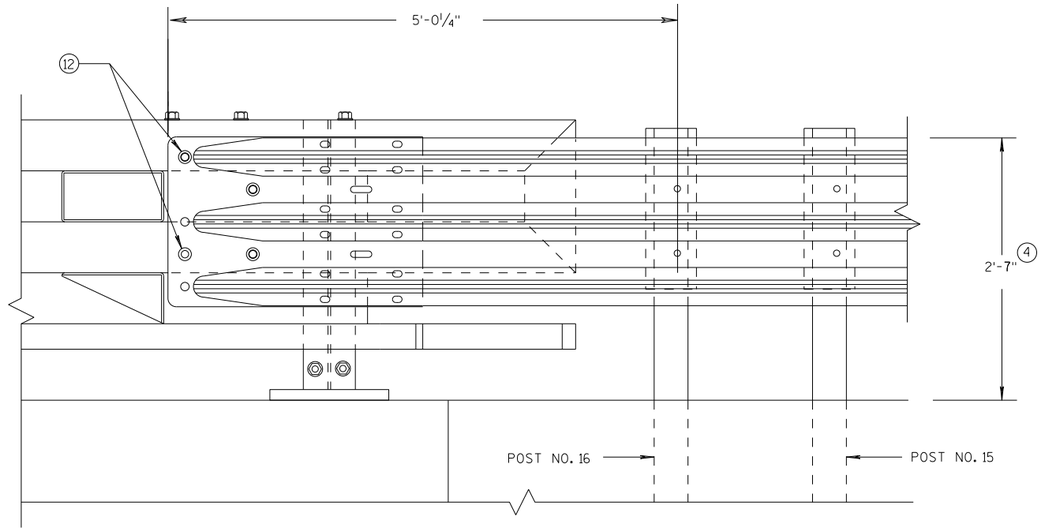
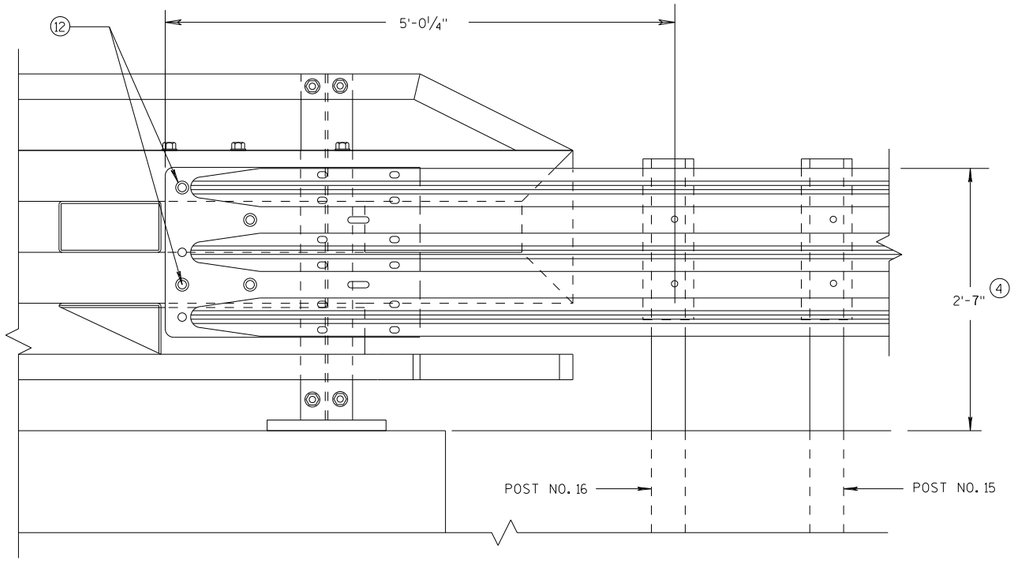


ELEVATION OF DETAIL AT NY3 END POST

THRIE BEAM RAIL ATTACHMENT



ELEVATION OF DETAIL AT NY4 END POST

THRIE BEAM RAIL ATTACHMENT

GENERAL NOTES

(4) TOLERANCE FOR TOP OF BEAM IS ± 1".

(12) BOLTS MAY BE A325 BOLTS OR A449 BOLTS. BOLT LENGTH AND THREADING LENGTH ARE TO ALLOW FOR A TIGHT CONNECTION BETWEEN RIGID BARRIER AND THRIE BEAM CONNECTION PLATE. CONTRACTOR IS TO FIELD VERIFY BOLT LENGTH AND THREAD LENGTH. ONE ROUND WASHER REQUIRED BETWEEN BOLT HEAD AND THRIE BEAM CONNECTOR PLATE. ON BACKSIDE OF PARAPET ONE ROUND WASHER, AND NUT REQUIRED. BOLT THREAD IS TO EXTEND 1/2-INCH BEYOND NUT.

MIDWEST GUARDRAIL SYSTEM
THRIE BEAM TRANSITION (MGS)

STATE OF WISCONSIN
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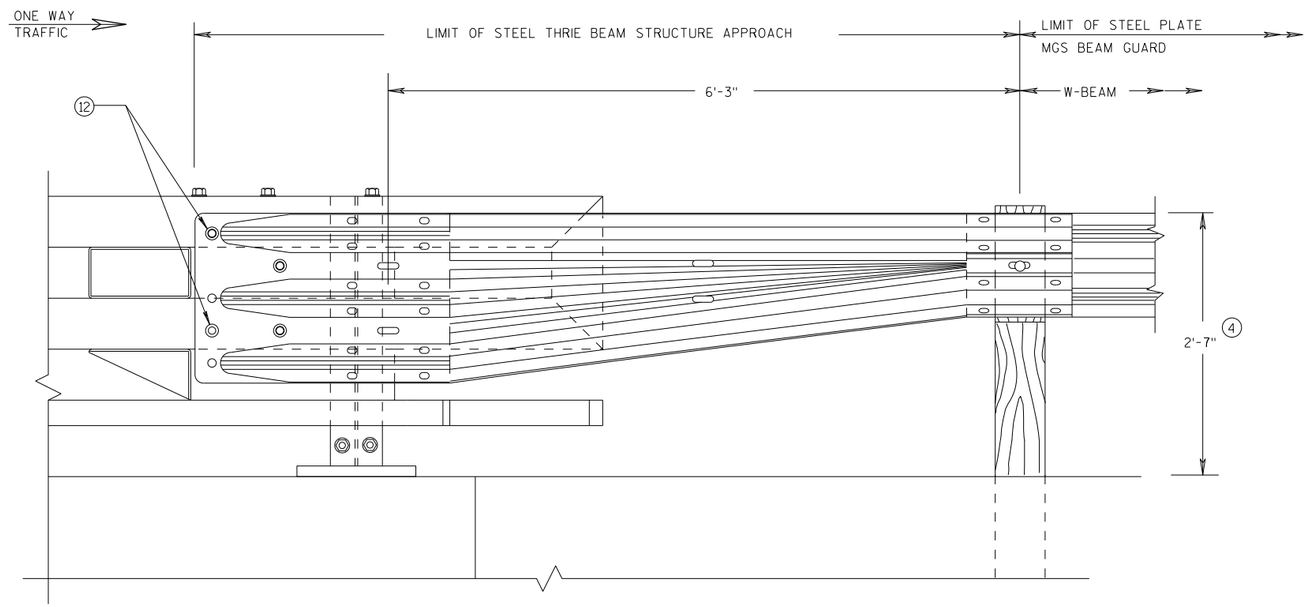


FRONT VIEW

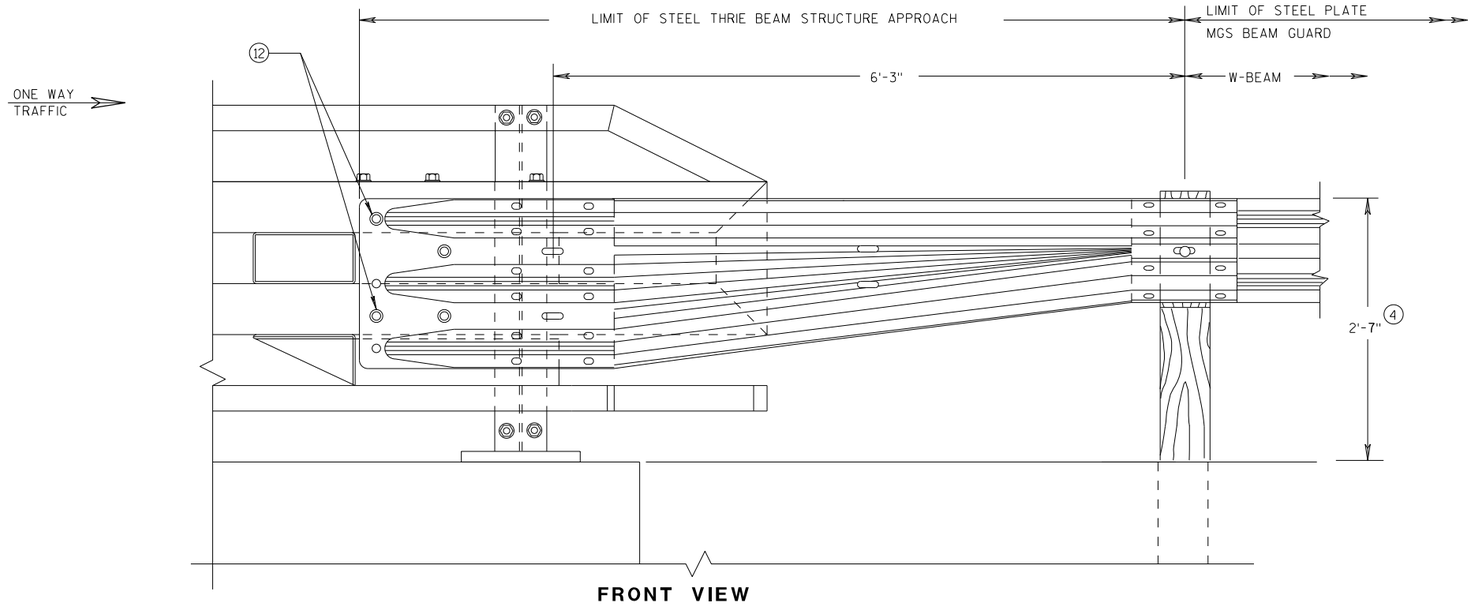
W BEAM TRANSITION AND CONNECTION TO BRIDGE RAILING TYPE "NY3"

(USE ONLY ON THE TRAFFIC EXIT END OF ONE WAY BRIDGES)

GENERAL NOTES

(4) TOLERANCE FOR TOP OF BEAM IS ± 1".

(12) BOLTS MAY BE A325 BOLTS OR A449 BOLTS. BOLT LENGTH AND THREADING LENGTH ARE TO ALLOW FOR A TIGHT CONNECTION BETWEEN RIGID BARRIER AND THRIE BEAM CONNECTION PLATE. CONTRACTOR IS TO FIELD VERIFY BOLT LENGTH AND THREAD LENGTH. ONE ROUND WASHER REQUIRED BETWEEN BOLT HEAD AND THRIE BEAM CONNECTOR PLATE. ON BACKSIDE OF PARAPET ONE ROUND WASHER, AND NUT REQUIRED. BOLT THREAD IS TO EXTEND 1/2-INCH BEYOND NUT.



FRONT VIEW

W BEAM TRANSITION AND CONNECTION TO BRIDGE RAILING TYPE "NY4"

(USE ONLY ON THE TRAFFIC EXIT END OF ONE WAY BRIDGES)

MIDWEST GUARDRAIL SYSTEM
THRIE BEAM TRANSITION (MGS)

STATE OF WISCONSIN
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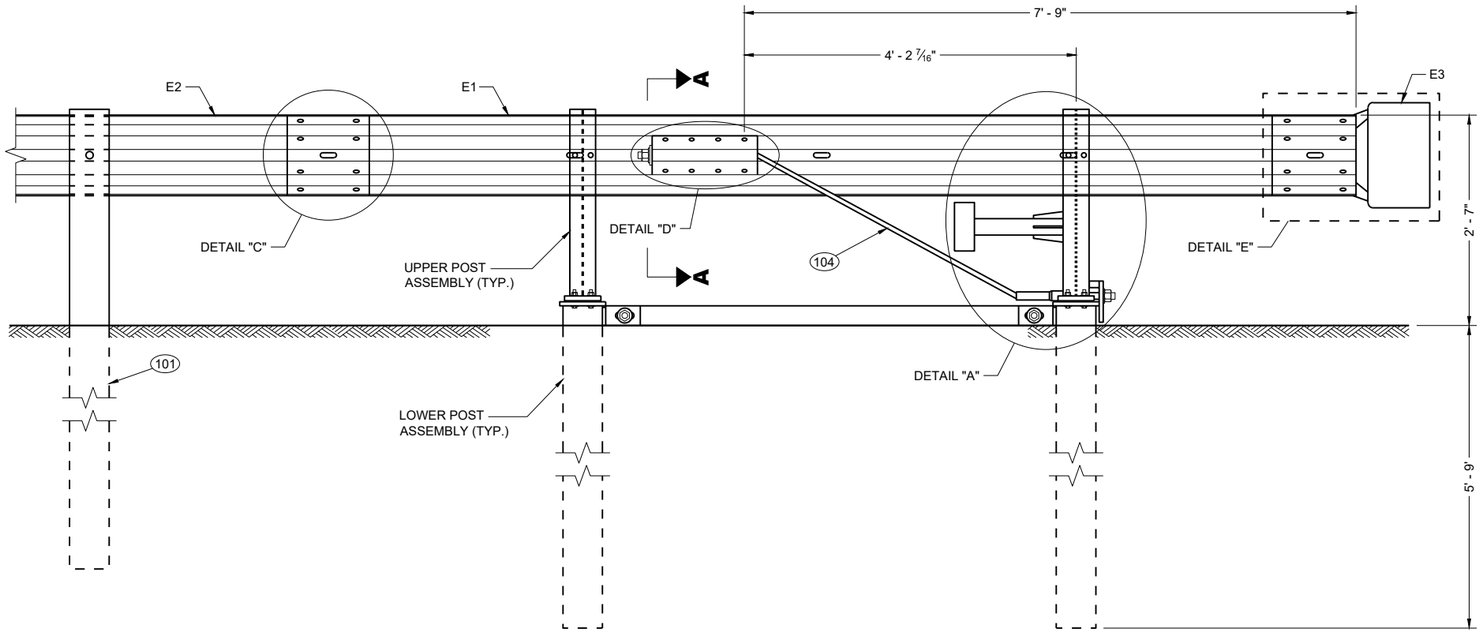
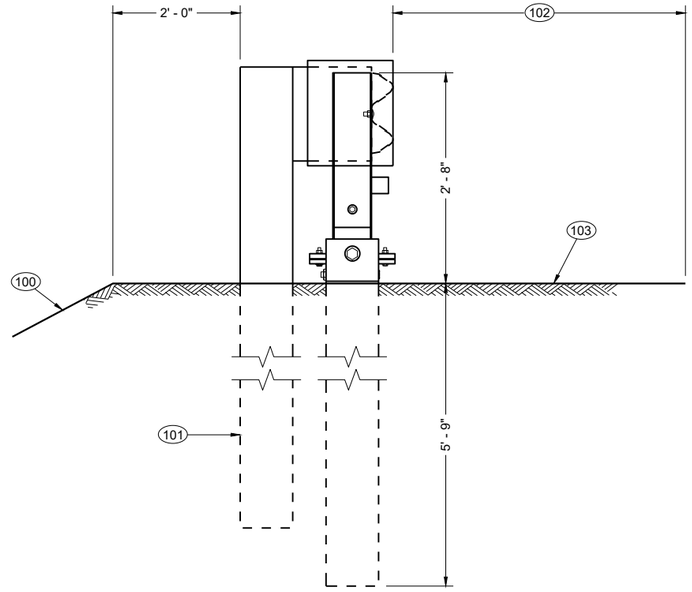


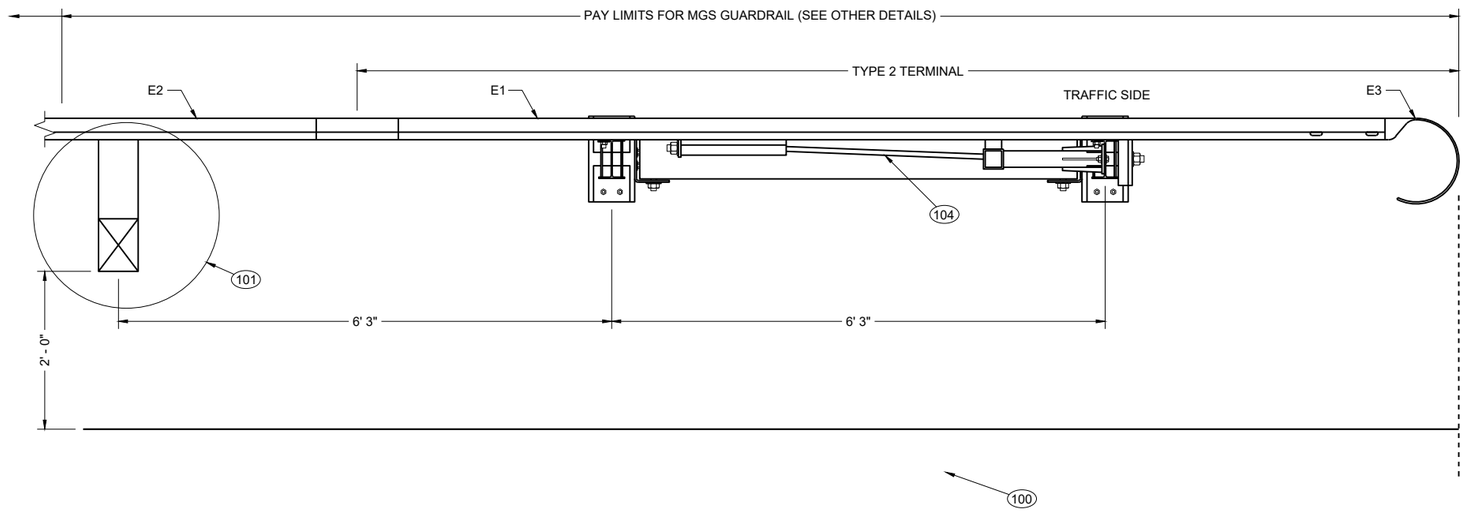
BACK VIEW

TYPE 2 TERMINAL



SIDE VIEW

TYPE 2 TERMINAL



TOP VIEW

TYPE 2 TERMINAL

GENERAL NOTES

SEE SDD 14B42 FOR MORE INFORMATION

(100) MAXIMUM SLOPE IS 2.5:1.

(101) SEE SDD 14B42 FOR MORE INFORMATION.

(102) SHOULDER

(103) MAXIMUM SLOPE IS 10:1.

(104) AFTER ASSEMBLY, CABLE IS TO BE TIGHTENED WITHOUT TWISTING THE CABLE.

MIDWEST GUARDRAIL SYSTEM (MGS)
TYPE 2 TERMINAL

STATE OF WISCONSIN
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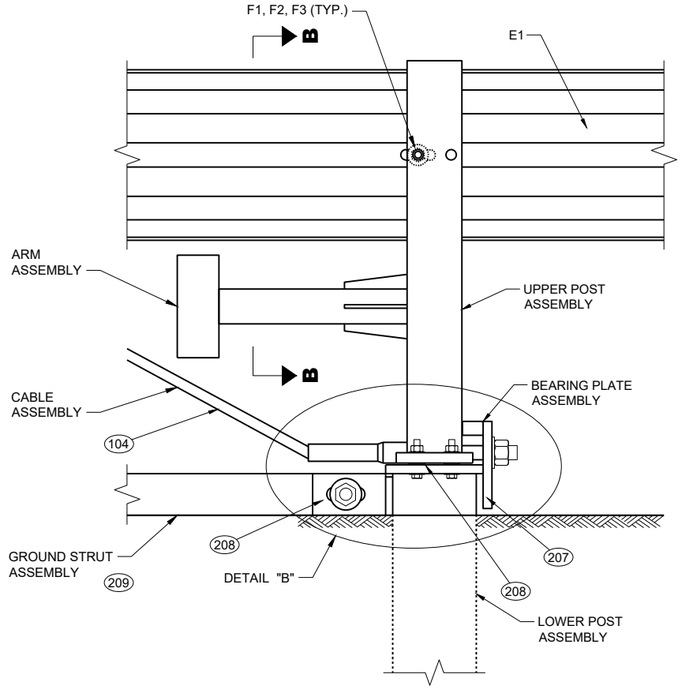
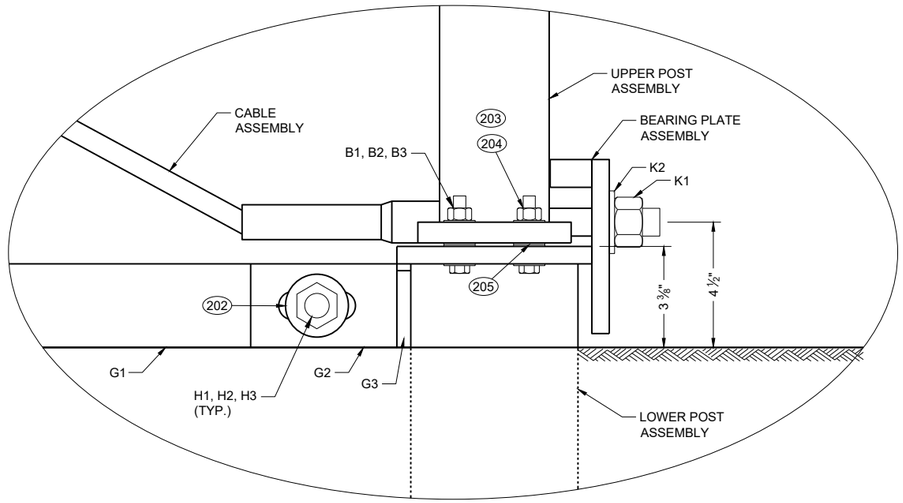
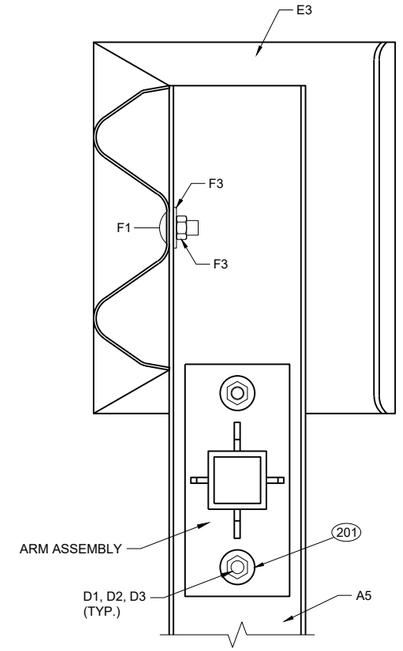
SDD 14B47-07a



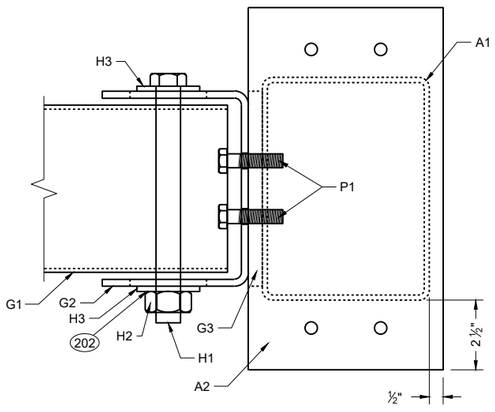
DETAIL "A"



DETAIL "B"

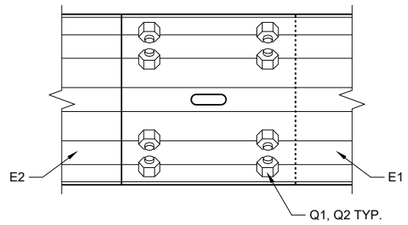


SECTION B - B

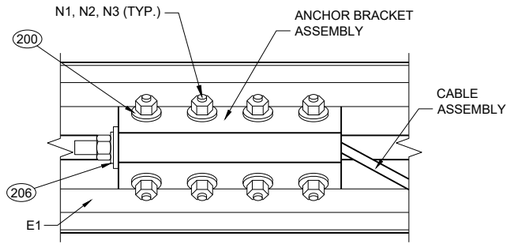


TOP VIEW

GROUND STRUT CONNECTION DETAIL



DETAIL "C"



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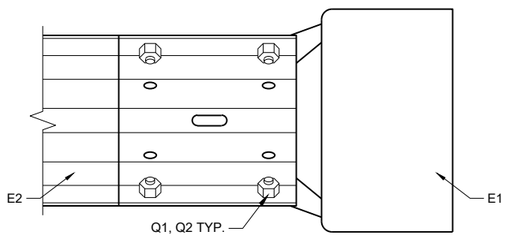


DETAIL "E"

GENERAL NOTES

200 INSTALL ONE WASHER UNDER BOLT HEAD AND RAIL AND ON WASHER BETWEEN NUT AND ANCHOR BRACKET ASSEMBLY.

201 INSTALL ONE WASHER UNDER BOLT HEAD AND UPPER POST ASSEMBLY AND ONE WASHER BETWEEN NUT AND ARM PLATE.

202 INSTALL ONE WASHER UNDER BOLT HEAD AND GROUND STRUT CONNECTOR AND ONE WASHER BETWEEN NUT AND GROUND STRUT CONNECTOR.

203 INSTALL ONE WASHER UNDER BOLT HEAD AND LOWER POST ASSEMBLY AND ONE WASHER BETWEEN NUT AND UPPER POST ASSEMBLY.

204 TORQUE VALUE IS BETWEEN 60 - 75 FT-LB.

205 TWO WASHERS BETWEEN UPPER AND LOWER POST ASSEMBLY.

206 INSTALL ONE WASHER BETWEEN NUT AND ANCHOR BRACKET ASSEMBLY.

207 NO MATERIAL IS TO BE PLACED AGAINST THE VERTICAL FACES OF BEARING PLATE.

208 PREVENT OR REMOVE MATERIALS THAT BLOCK ACCESS TO BOLTS FOR POST ASSEMBLIES AND GROUND STRUT.

209 PREVENT OR REMOVE MATERIALS THAT IMPEDE REMOVAL OF GROUND STRUT.

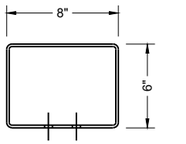
MIDWEST GUARDRAIL SYSTEM (MGS) TYPE 2 TERMINAL

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

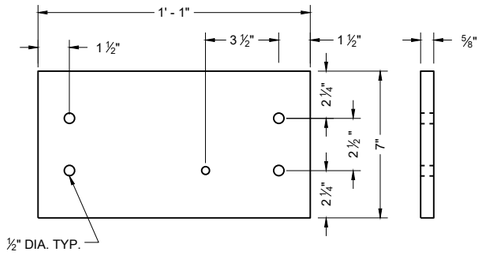
6
SDD 14B47-07b

GENERAL NOTES

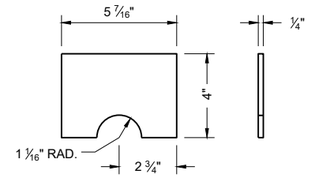
(300) TAP FOR 1/2" AFTER GALVANIZATION



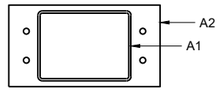
TOP VIEW



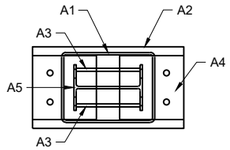
LOWER PLATE (A2)

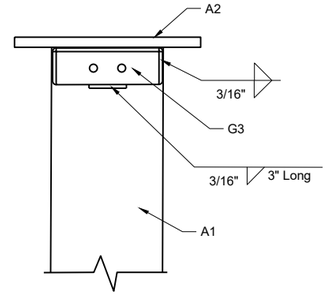


POST GUSSET (A3)

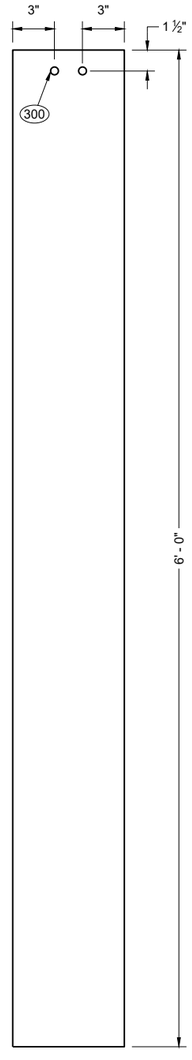


PLAN VIEW



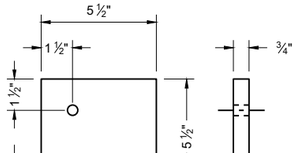


WELDING DETAIL
G3 AND A1

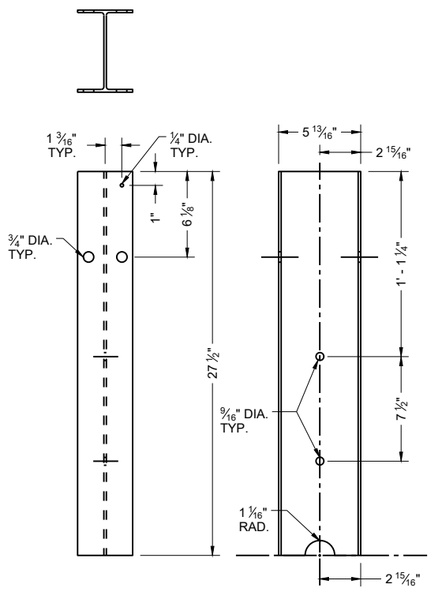


SIDE VIEW

FOUNDATION TUBE (A1)

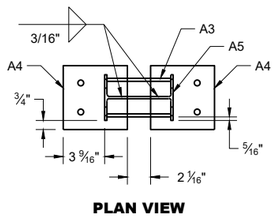


UPPER PLATE (A4)

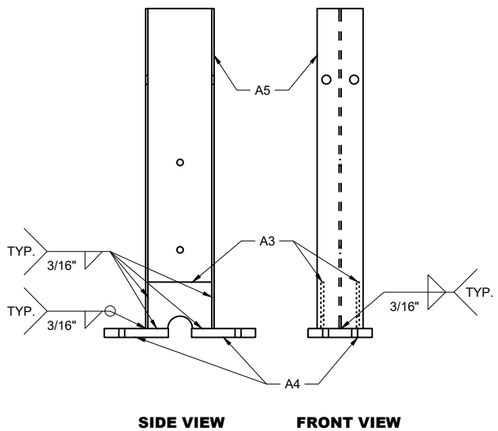


FRONT VIEW SIDE VIEW

TYPE 2 POST (A5)

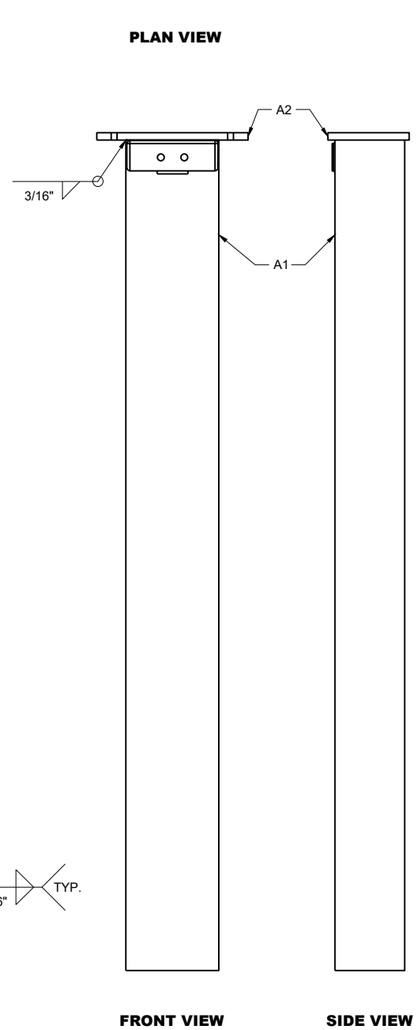


PLAN VIEW



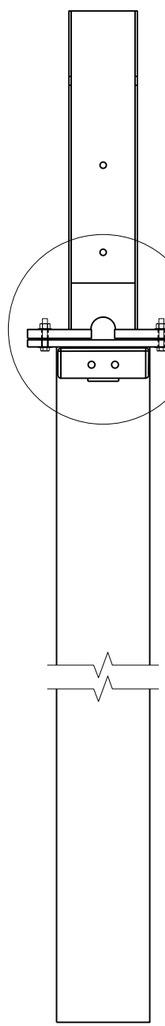
SIDE VIEW FRONT VIEW

UPPER POST ASSEMBLY

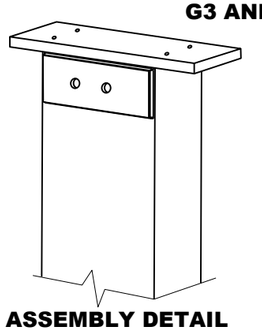


FRONT VIEW SIDE VIEW

LOWER POST ASSEMBLY

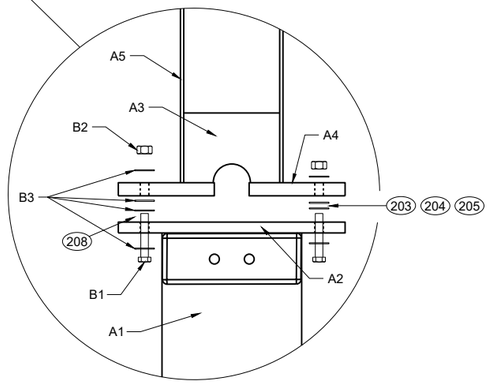


ASSEMBLED POST



ASSEMBLY DETAIL ISOMETRIC

A1

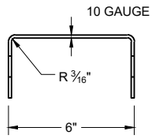


POST CONNECTION DETAIL

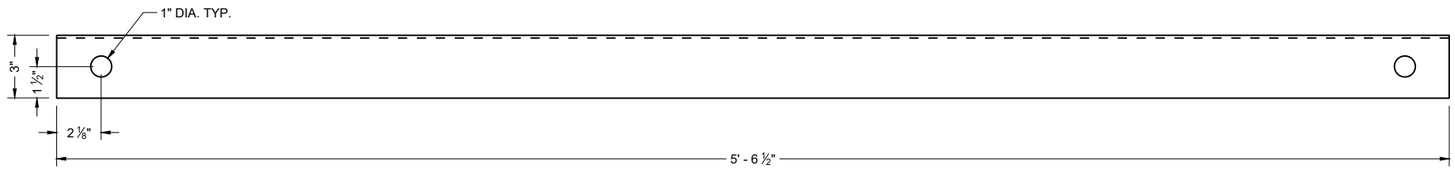
MIDWEST GUARDRAIL SYSTEM (MGS) TYPE 2 TERMINAL	
STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION	

6

SDD 14B47-07c

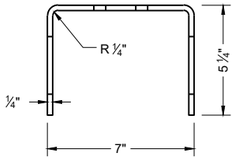


SIDE VIEW

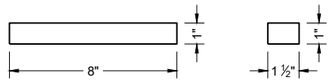


FRONT VIEW

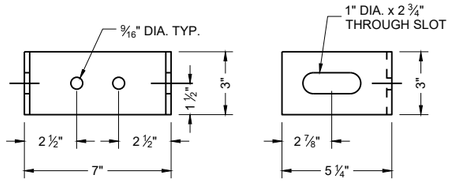
GROUND STRUT CHANNEL (G1)



TOP VIEW



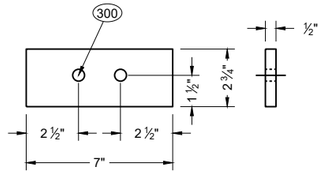
BEARING PLATE FLANGE (L2)



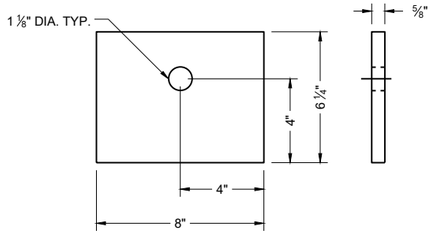
FRONT VIEW

SIDE VIEW

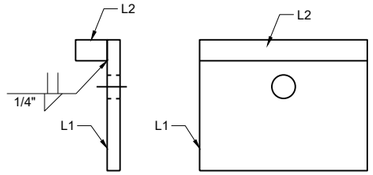
GROUND STRUT CONNECTOR (G2)



GROUND STRUT PLATE (G3)



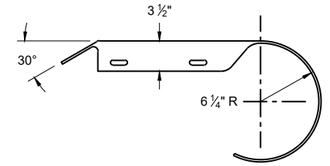
BEARING PLATE (L1)



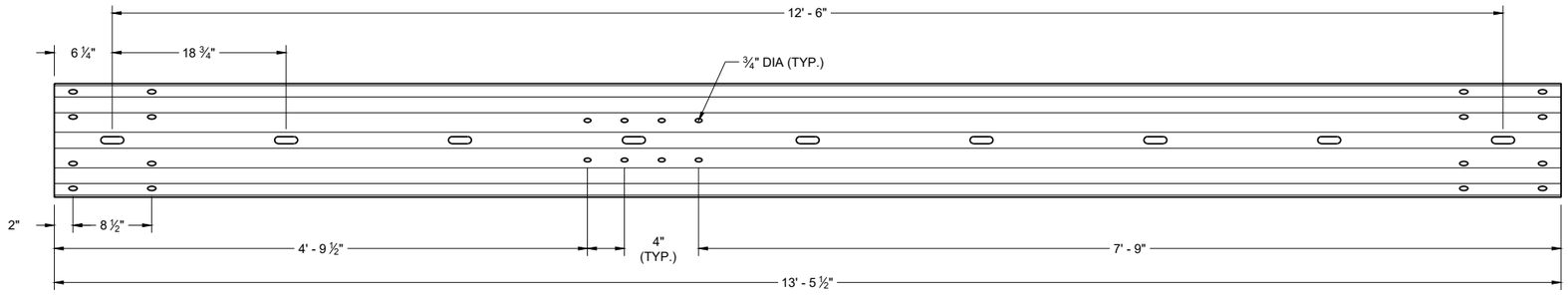
SIDE VIEW

FRONT VIEW

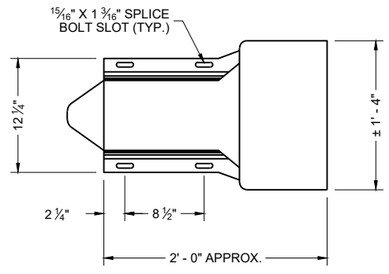
BEARING PLATE ASSEMBLY



PLAN VIEW

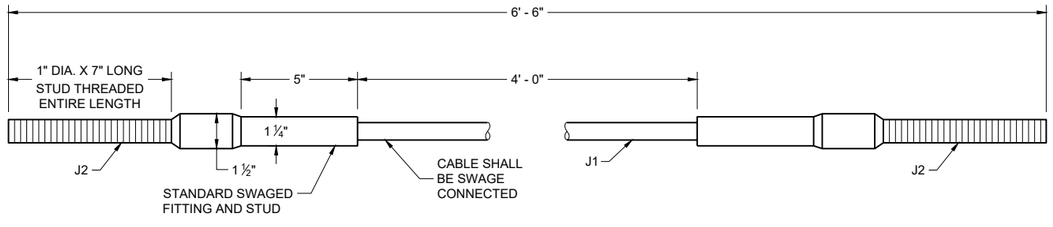


TYPE 2 GUARDRAIL (E1)



ELEVATION VIEW

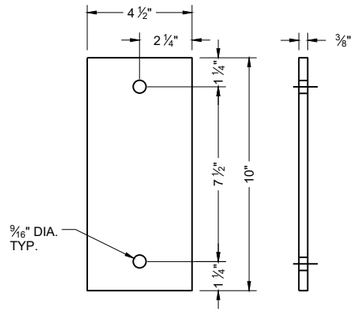
ROUNDED BUFFER END (E3)



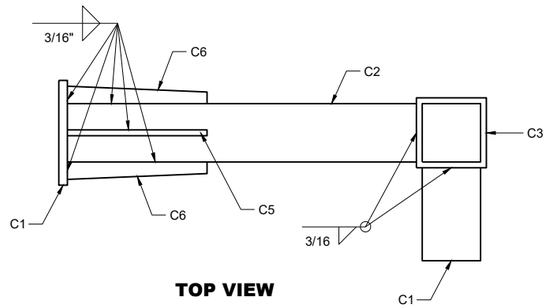
CABLE ASSEMBLY

MIDWEST GUARDRAIL SYSTEM (MGS) TYPE 2 TERMINAL

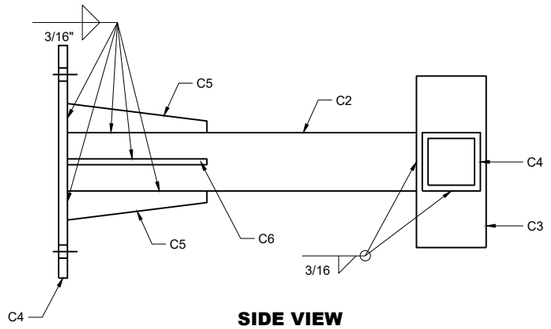
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION



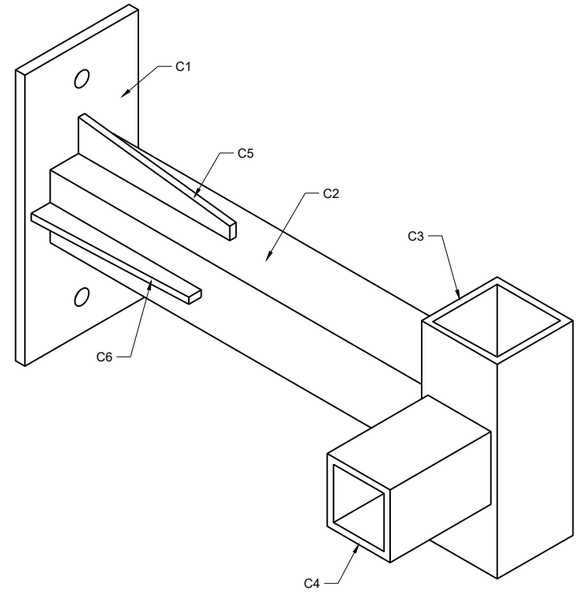
ARM PLATE (C1)



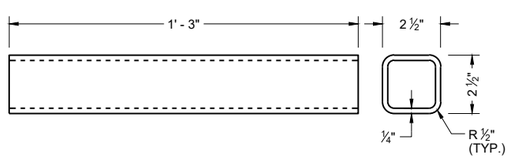
TOP VIEW
ARM ASSEMBLY



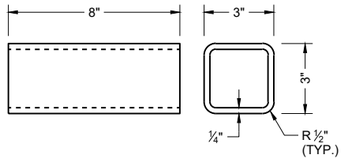
SIDE VIEW
ARM ASSEMBLY



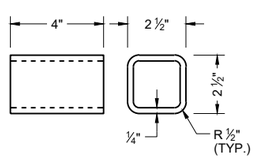
ISOMETRIC VIEW
ARM ASSEMBLY



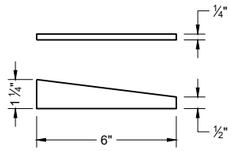
ARM TUBE 1 (C2)



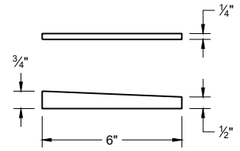
ARM TUBE 2 (C3)



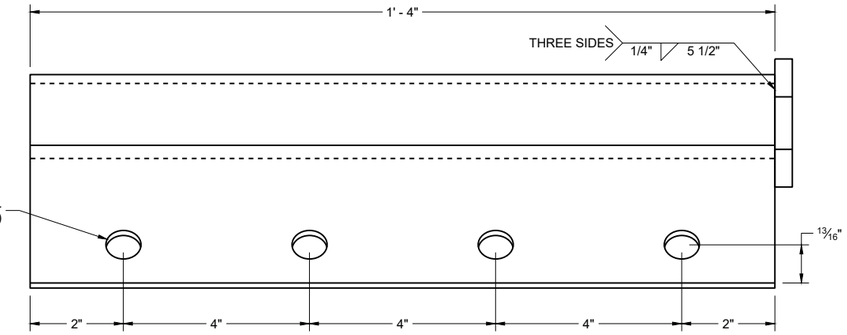
ARM TUBE 3 (C4)

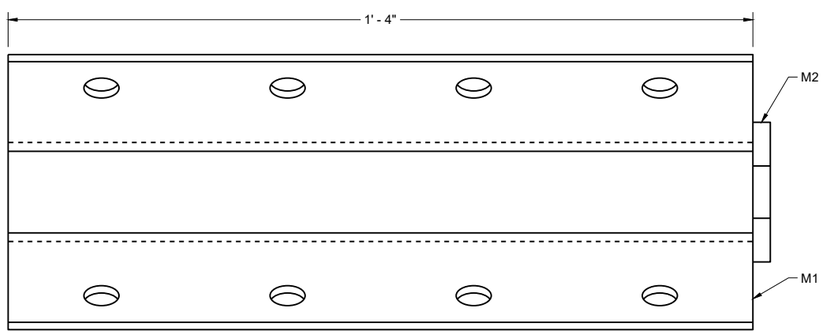


ARM GUSSET PLATE 1 (C5)

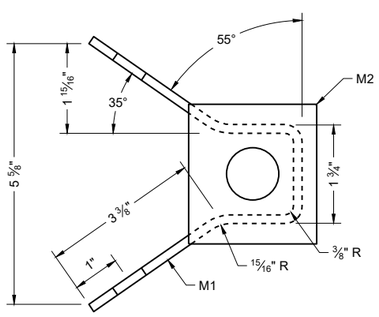


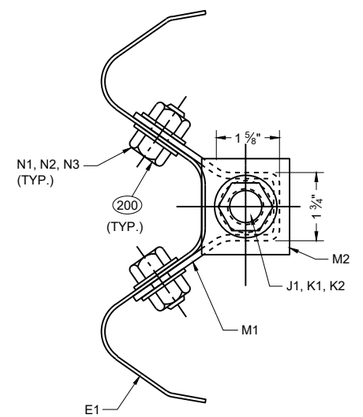
ARM GUSSET PLATE 2 (C6)

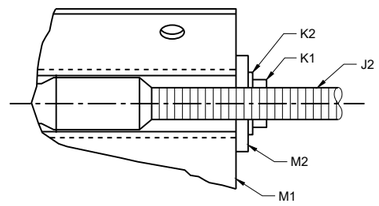




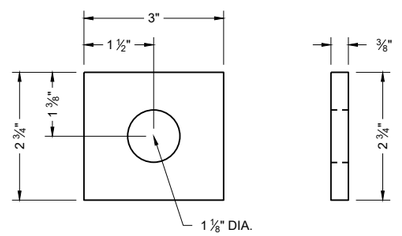
ANCHOR BRACKET (M1, M2)







SECTION A - A



ANCHOR BRACKET BEARING PLATE (M2)

MIDWEST GUARDRAIL SYSTEM (MGS) TYPE 2 TERMINAL

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

BILL OF MATERIALS - TYPE 2 TERMINAL (MGS)

PART	DESCRIPTION	MATERIALS SPECIFICATIONS	NOTES
A1	TYPE 2 FOUNDATION TUBE	AASHTO M111 / ASTM A123 ASTM A500 GRADE B OR ASTM A-501	TS 8" x 6" x 3/16"
A2	LOWER PLATE	AASHTO M111 / ASTM A123 ASTM A36 MIN. STRENGTH 36 KSI, OR ASTM A529 MAX. STRENGTH 50 KSI, OR ASTM A572 MAX STRENGTH 50 KSI, OR ASTM A709 MAX STRENGTH 50 KSI, OR ASTM A992 MAX STRENGTH 50 KSI	5/8" THICKNESS
A3	POST GUSSET	AASHTO M111 / ASTM A123 ASTM A36 MIN. STRENGTH 36 KSI, OR ASTM A529 MAX. STRENGTH 50 KSI, OR ASTM A572 MAX STRENGTH 50 KSI, OR ASTM A709 MAX STRENGTH 50 KSI, OR ASTM A992 MAX STRENGTH 50 KSI	1/4" THICKNESS
A4	UPPER PLATE	AASHTO M111 / ASTM A123 ASTM A36 MIN. STRENGTH 36 KSI, OR ASTM A529 MAX. STRENGTH 50 KSI, OR ASTM A572 MAX STRENGTH 50 KSI, OR ASTM A709 MAX STRENGTH 50 KSI, OR ASTM A992 MAX STRENGTH 50 KSI	3/4" THICKNESS
A5	TYPE 2 POST	AASHTO M111 / ASTM A123 ASTM A36 MIN. STRENGTH 36 KSI, OR ASTM A529 MAX. STRENGTH 50 KSI, OR ASTM A572 MAX STRENGTH 50 KSI, OR ASTM A709 MAX STRENGTH 50 KSI, OR ASTM A992 MAX STRENGTH 50 KSI, w6x9 or w6x8.5	
B1	BREAKAWAY BOLT	HOT DIP AASHTO M232 CLASS / ASTM A153 CLASS C / ASTM F2329 C OR MECHANICAL GAL. TO AASHTO M298 CLASS 50 TYPE 1 / ASTM B695 CLASS 50 TYPE 1 UNC HEAVY HEX HEAD ASTM F3125 GRADE A325 TYPE 1 HEAVY HEX HEAD OR SAE J429 GRADE 5 HEAVY HEX HEAD / ASTM A449 TYPE 1 HEAVY HEX HEAD. BOLTS MAY BE FULLY THREADED . PROVIDE ENOUGH THREADING FOR PROPER TIGHTENING OF BOLT.	7/16" DIA.
B2	BREAKAWAY BOLT WASHER	HOT DIP AASHTO M232 CLASS / ASTM A153 CLASS C / ASTM F2329 C OR MECHANICAL GAL. TO AASHTO M298 CLASS 50 TYPE 1 / ASTM B695 CLASS 50 TYPE 1 F436 TYPE 1 (HARDEN WASHER ONLY)	7/16" DIA.
B3	BREAKAWAY BOLT NUT	HOT DIP AASHTO M232 CLASS / ASTM A153 CLASS C / ASTM F2329 C OR MECHANICAL GAL. TO AASHTO M298 CLASS 50 TYPE 1 / ASTM B695 CLASS 50 TYPE 1 UNC OVER TAP NUTS AS SPECIFIED IN AASHTO 291/ASTM A 563 HEAVY HEX HEAD ASTM A563DH OR SAE J995 GRADE 5	
C1	ARM ASSEMBLY PLATE	AASHTO M111 / ASTM A123 ASTM A36 MIN. STRENGTH 36 KSI, OR ASTM A529 MAX. STRENGTH 50 KSI, OR ASTM A572 MAX STRENGTH 50 KSI, OR ASTM A709 MAX STRENGTH 50 KSI, OR ASTM A992 MAX STRENGTH 50 KSI	3/8" THICKNESS
C2	ARM ASSEMBLY TUBE 1	AASHTO M111 / ASTM A123 ASTM A500 GRADE B OR ASTM A-501	TS 8" x 6" x 3/16"
C3	ARM ASSEMBLY TUBE 2	AASHTO M111 / ASTM A123 ASTM A500 GRADE B OR ASTM A-501	TS 3" x 3" x 1/4"
C4	ARM ASSEMBLY TUBE 3	AASHTO M111 / ASTM A123 ASTM A500 GRADE B OR ASTM A-501	TS 2 1/2" x 2 1/2" X 1/4"
C5	ARM ASSEMBLY GUSSET PLATE 1	AASHTO M111 / ASTM A123 ASTM A36 MIN. STRENGTH 36 KSI, OR ASTM A529 MAX. STRENGTH 50 KSI, OR ASTM A572 MAX STRENGTH 50 KSI, OR ASTM A709 MAX STRENGTH 50 KSI, OR ASTM A992 MAX STRENGTH 50 KSI	1/4" THICKNESS
C6	ARM ASSEMBLY GUSSET PLATE 2	AASHTO M111 / ASTM A123 ASTM A36 MIN. STRENGTH 36 KSI, OR ASTM A529 MAX. STRENGTH 50 KSI, OR ASTM A572 MAX STRENGTH 50 KSI, OR ASTM A709 MAX STRENGTH 50 KSI, OR ASTM A992 MAX STRENGTH 50 KSI	1/4" THICKNESS
D1	ARM ASSEMBLY BOLT	HOT DIP AASHTO M232 CLASS / ASTM A153 CLASS C / ASTM F2329 C OR MECHANICAL GAL. TO AASHTO M298 CLASS 50 TYPE 1 / ASTM B695 CLASS 50 TYPE 1 UNC HEAVY HEX HEAD ASTM A307 GRADE B OR SAE J429 GRADE 2 OR ASTM F1554 GRADE 36	1/2" DIA.
D2	ARM ASSEMBLY WASHER	HOT DIP AASHTO M232 CLASS / ASTM A153 CLASS C / ASTM F2329 C OR MECHANICAL GAL. TO AASHTO M298 CLASS 50 TYPE 1 / ASTM B695 CLASS 50 TYPE 1 F436 TYPE 1 (HARDEN WASHER ONLY)	1/2" DIA.
D3	ARM ASSEMBLY NUT	HOT DIP AASHTO M232 CLASS / ASTM A153 CLASS C / ASTM F2329 C OR MECHANICAL GAL. TO AASHTO M298 CLASS 50 TYPE 1 / ASTM B695 CLASS 50 TYPE 1 UNC OVER TAP NUTS AS SPECIFIED IN AASHTO 291 / ASTM A 563 HEAVY HEX HEAD ASTM A563DH OR SAE J995 GRADE 5	1/2" DIA.
E1	TYPE 2 GUARD RAIL	AASHTO M180 CLASS A TYPE 2 12 GAUGE APPROVED PRODUCER	
E2	BEAM GUARD RAIL	AASHTO M180 CLASS A TYPE 2 12 GAUGE APPROVED PRODUCER	
E3	BEAM GUARD ROUNDED BUFFER END	AASHTO M180 CLASS A TYPE 2 12 GAUGE APPROVED PRODUCER	
F1	POST BOLT	HOT DIP AASHTO M232 CLASS / ASTM A153 CLASS C / ASTM F2329 C OR MECHANICAL GAL. TO AASHTO M298 CLASS 50 TYPE 1 / ASTM B695 CLASS 50 TYPE 1 UNC UNC HEAVY HEX HEAD ASTM A307 GRADE B OR SAE J429 GRADE 2 OR ASTM F1554 GRADE 36	5/8" DIA.
F2	POST BOLT WASHER	HOT DIP AASHTO M232 CLASS / ASTM A153 CLASS C / ASTM F2329 C OR MECHANICAL GAL. TO AASHTO M298 CLASS 50 TYPE 1 / ASTM B695 CLASS 50 TYPE 1 F436 TYPE 1 (HARDEN WASHER ONLY)	5/8" DIA.
F3	POST BOLT NUT	HOT DIP AASHTO M232 CLASS / ASTM A153 CLASS C / ASTM F2329 C OR MECHANICAL GAL. TO AASHTO M298 CLASS 50 TYPE 1 / ASTM B695 CLASS 50 TYPE 1 UNC OVER TAP NUTS AS SPECIFIED IN AASHTO 291/ASTM A 563 AASHTO M180 RECESSED HEAVY HEX HEAD ASTM A563DH OR SAE J995 GRADE 5	
G1	GROUND STRUT CHANNEL	AASHTO M111 / ASTM A123 ASTM A36 MIN. STRENGTH 36 KSI, OR ASTM A529 MAX. STRENGTH 50 KSI, OR ASTM A572 MAX STRENGTH 50 KSI, OR ASTM A709 MAX STRENGTH 50 KSI, OR ASTM A992 MAX STRENGTH 50 KSI	1/2" x 11 3/4" x 10 GAUGE
G2	GROUND STRUT CONNECTOR	AASHTO M111 / ASTM A123 ASTM A36 MIN. STRENGTH 36 KSI, OR ASTM A529 MAX. STRENGTH 50 KSI, OR ASTM A572 MAX STRENGTH 50 KSI, OR ASTM A709 MAX STRENGTH 50 KSI, OR ASTM A992 MAX STRENGTH 50 KSI	1/4" THICKNESS
G3	GROUND STRUT PLATE	AASHTO M111 / ASTM A123 ASTM A36 MIN. STRENGTH 36 KSI, OR ASTM A529 MAX. STRENGTH 50 KSI, OR ASTM A572 MAX STRENGTH 50 KSI, OR ASTM A709 MAX STRENGTH 50 KSI, OR ASTM A992 MAX STRENGTH 50 KSI	1/2" THICKNESS

MIDWEST GUARDRAIL SYSTEM (MGS) TYPE 2 TERMINAL

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

6

SDD 14B47-07f

BILL OF MATERIALS - TYPE 2 TERMINAL (MGS)

PART	DESCRIPTION	MATERIALS SPECIFICATIONS	NOTES
H1	GROUND STRUT BOLT	HOT DIP AASHTO M232 CLASS / ASTM A153 CLASS C / ASTM F2329 C OR MECHANICAL GAL. TO AASHTO M298 CLASS 50 TYPE 1 / ASTM B695 CLASS 50 TYPE 1 UNC HEAVY HEX HEAD ASTM A307 GRADE B OR SAE J429 GRADE 2 OR ASTM F1554 GRADE 36	7/8" DIA.
H2	GROUND STRUT BOLT WASHER	HOT DIP AASHTO M232 CLASS / ASTM A153 CLASS C / ASTM F2329 C OR MECHANICAL GAL. TO AASHTO M298 CLASS 50 TYPE 1/ ASTM B695 CLASS 50 TYPE 1 F436 TYPE 1 (HARDEN WASHER ONLY)	7/8" DIA.
H3	GROUND STRUT BOLT NUT	HOT DIP AASHTO M232 CLASS / ASTM A153 CLASS C / ASTM F2329 C OR MECHANICAL GAL. TO AASHTO M298 CLASS 50 TYPE 1 / ASTM B695 CLASS 50 TYPE 1 UNC HEAVY HEX HEAD 5/8" ASTM A307 GRADE B OR SAE J429 GRADE 2 OR ASTM F1554 GRADE 36	
J1	BCT CABLE	AASHTO M30 / ASTM A741 6 x 19 INDEPENDENT WIRE CORE (IWRC) IMPROVED PLOW STEEL (IPS), 6 x 19 INDEPENDENT WIRE CORE (IWRC) IMPROVED PLOW STEEL (IPS) TYPE II OR IIC, CLASS C ZINC COATED MIN. BREAKING STRENGTH OF 42.7 KIPS	3/4" DIA.
J2	BCT CABLE	UNC 1" ASTM A576 GRADE 1035 SWAGE FITTINGS ARE TO BE FACTORY SWEDGED. MIN BREAKING STRENGTH OF 42.7 KIPS ASME B30.26 "FORGED, CAST, OR DIE STAMPED WITH THE FOLLOWING IN TO CONNECTION: NAME OF MANUFACTURE OR TRADEMARK OF CONNECTION'S MANUFACTURER, SIZE OR RATED LOAD, GRADE FOR ALLOY EYEBOLTS."	
K1	CABLE ASSEMBLY NUT	HOT DIP AASHTO M232 CLASS / ASTM A153 CLASS C / ASTM F2329 C OR MECHANICAL GAL. TO AASHTO M298 CLASS 50 TYPE 1 / ASTM B695 CLASS 50 TYPE 1 UNC OVER TAP NUTS AS SPECIFIED IN AASHTO 291 / ASTM A 563 HEAVY HEX HEAD ASTM A563DH OR SAE J995 GRADE 5	1" DIA.
K2	CABLE ASSEMBLY WASHER	HOT DIP AASHTO M232 CLASS / ASTM A153 CLASS C / ASTM F2329 C OR MECHANICAL GAL. TO AASHTO M298 CLASS 50 TYPE 1	1" DIA.
L1	BEARING PLATE	AASHTO M111 / ASTM A123 ASTM A36 MIN. STRENGTH 36 KSI, OR ASTM A529 MAX. STRENGTH 50 KSI, OR ASTM A572 MAX STRENGTH 50 KSI, OR ASTM A709 MAX STRENGTH 50 KSI, OR ASTM A992 MAX STRENGTH 50 KSI	5/8" THICKNESS
L2	BEARING PLATE FLANGE	AASHTO M111 / ASTM A123 ASTM A36 MIN. STRENGTH 36 KSI, OR ASTM A529 MAX. STRENGTH 50 KSI, OR ASTM A572 MAX STRENGTH 50 KSI, OR ASTM A709 MAX STRENGTH 50 KSI, OR ASTM A992 MAX STRENGTH 50 KSI	1" THICKNESS
M1	BEAM GUARD ANCHOR BRACKET	AASHTO M111 / ASTM A123 ASTM A36 MIN. STRENGTH 36 KSI, OR ASTM A529 MAX. STRENGTH 50 KSI, OR ASTM A572 MAX STRENGTH 50 KSI, OR ASTM A709 MAX STRENGTH 50 KSI, OR ASTM A992 MAX STRENGTH 50 KSI	
M2	BEAM GUARD ANCHOR END PLATE	AASHTO M111 / ASTM A123 ASTM A36 MIN. STRENGTH 36 KSI, OR ASTM A529 MAX. STRENGTH 50 KSI, OR ASTM A572 MAX STRENGTH 50 KSI, OR ASTM A709 MAX STRENGTH 50 KSI, OR ASTM A992 MAX STRENGTH 50 KSI	3/8" THICKNESS
N1	ANCHOR BRACKET BOLT	HOT DIP AASHTO M232 CLASS / ASTM A153 CLASS C / ASTM F2329 C OR MECHANICAL GAL. TO AASHTO M298 CLASS 50 TYPE 1 / ASTM B695 CLASS 50 TYPE 1 UNC AASHTO M180 HEAD ASTM A307 GRADE B OR SAE J429 GRADE 2 OR ASTM F1554 GRADE 36	5/8" DIA.
N2	ANCHOR BRACKET BOLT WASHER	HOT DIP AASHTO M232 CLASS / ASTM A153 CLASS C / ASTM F2329 C OR MECHANICAL GAL. TO AASHTO M298 CLASS 50 TYPE 1/ ASTM B695 CLASS 50 TYPE 1 F436 TYPE 1 (HARDEN WASHER ONLY)	5/8" DIA.
N3	ANCHOR BRACKET BOLT NUT	HOT DIP AASHTO M232 CLASS / ASTM A153 CLASS C / ASTM F2329 C OR MECHANICAL GAL. TO AASHTO M298 CLASS 50 TYPE 1 / ASTM B695 CLASS 50 TYPE 1 UNC OVER TAP NUTS AS SPECIFIED IN AASHTO 291 /ASTM A 563 HEAVY HEX HEAD ASTM A563DH OR SAE J995 GRADE 5	
P1	FOUNDATION TUBE BOLT	HOT DIP AASHTO M232 CLASS / ASTM A153 CLASS C / ASTM F2329 C OR MECHANICAL GAL. TO AASHTO M298 CLASS 50 TYPE 1/ ASTM B695 CLASS 50 TYPE 1 UNC OVER TAP NUTS AS SPECIFIED IN AASHTO 291 / ASTM A 563 HEAVY HEX HEAD ASTM A563DH OR SAE J995 GRADE 5	1/2" DIA.
Q1	SPLICE BOLT	HOT DIP AASHTO M232 CLASS / ASTM A153 CLASS C / ASTM F2329 C OR MECHANICAL GAL. TO AASHTO M298 CLASS 50 TYPE 1 / ASTM B695 CLASS 50 TYPE 1 UNC AASHTO M180 HEAD ASTM A307 GRADE B OR SAE J429 GRADE 2 OR ASTM F1554 GRADE 36	
Q2	SPLICE NUT	HOT DIP AASHTO M232 CLASS / ASTM A153 CLASS C / ASTM F2329 C OR MECHANICAL GAL. TO AASHTO M298 CLASS 50 TYPE 1 / ASTM B695 CLASS 50 TYPE 1 UNC OVER TAP NUTS AS SPECIFIED IN AASHTO 291 / ASTM A 563 AASHTO M180 RECESSED HEAVY HEX HEAD ASTM A563DH OR SAE J995 GRADE 5	5/8" DIA.

MIDWEST GUARDRAIL SYSTEM (MGS) TYPE 2 TERMINAL

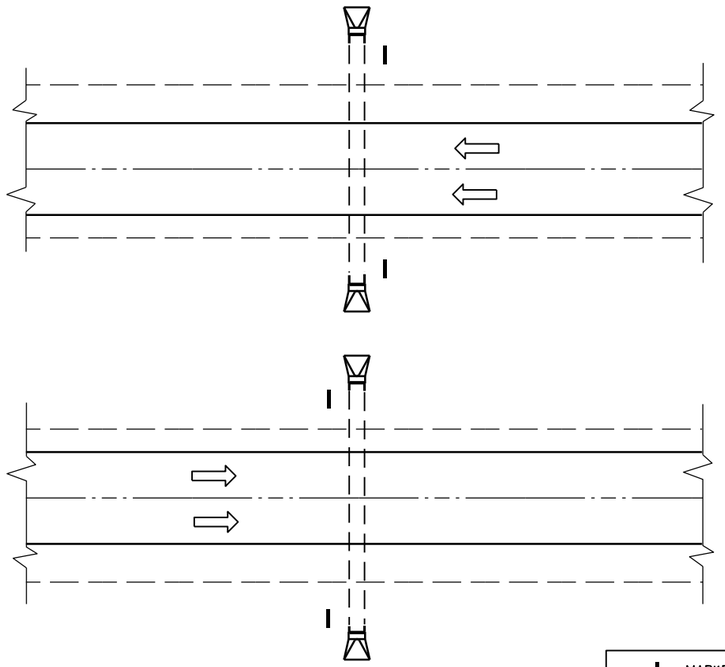
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
June 2025 — DATE
/S/ Rodney Taylor — <position>

FHWA

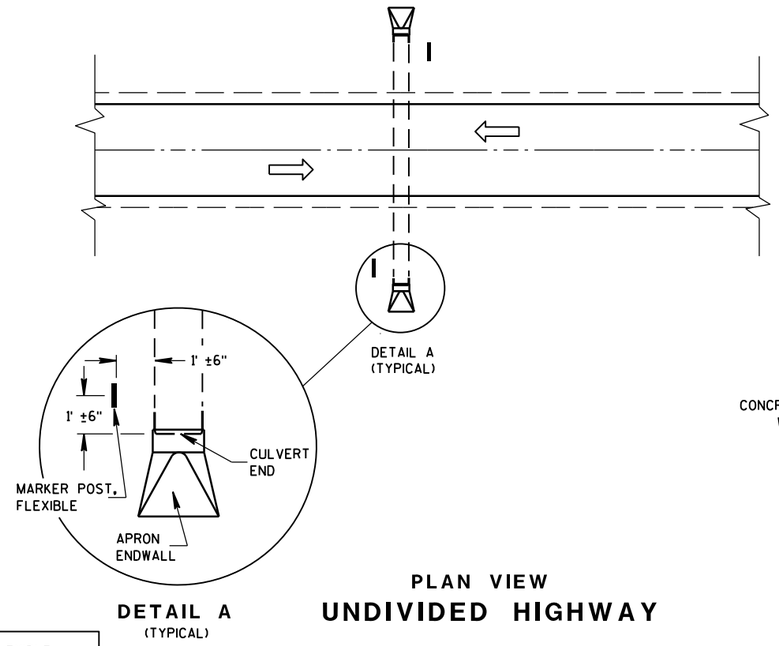
6

SDD 14B47-07g



PLAN VIEW

DIVIDED HIGHWAY



DETAIL A
(TYPICAL)

PLAN VIEW

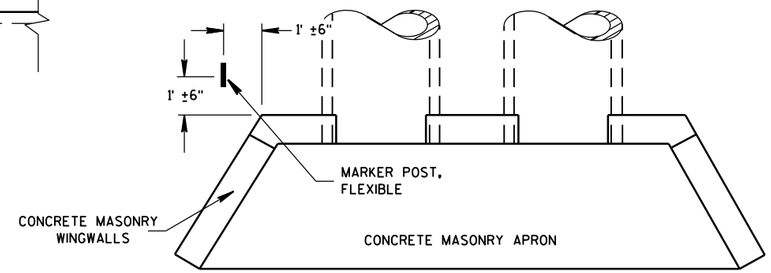
UNDIVIDED HIGHWAY

MARKER POST, FLEXIBLE

DIRECTION OF TRAFFIC FLOW

GENERAL NOTES

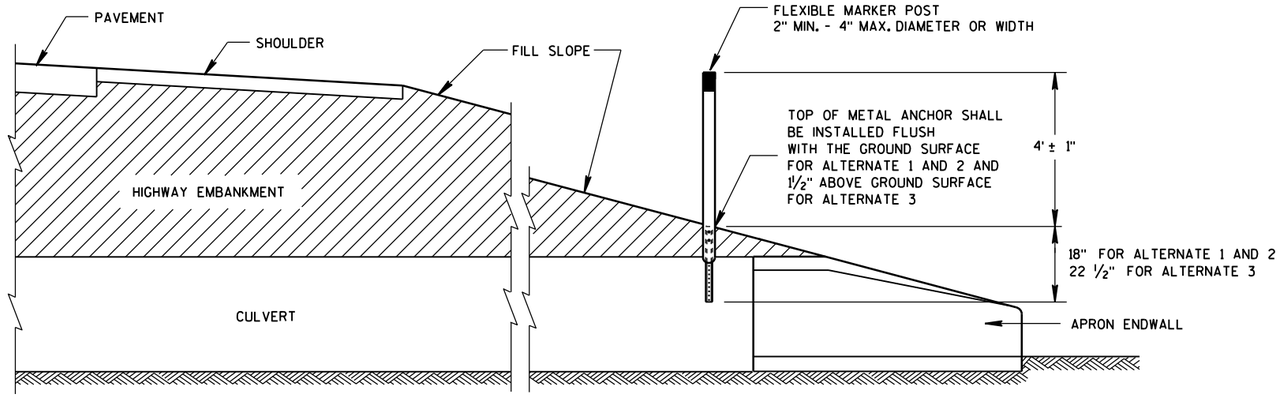
DETAILS OF CONSTRUCTION, MATERIALS AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS AND THE APPLICABLE SPECIAL PROVISIONS.



PLAN VIEW

CONCRETE MASONRY ENDWALLS FOR CULVERT PIPE AND PIPE ARCH

FLEXIBLE MARKER POST LOCATION



CROSS SECTION

FLEXIBLE MARKER POST

FLEXIBLE MARKER POST FOR CULVERT END

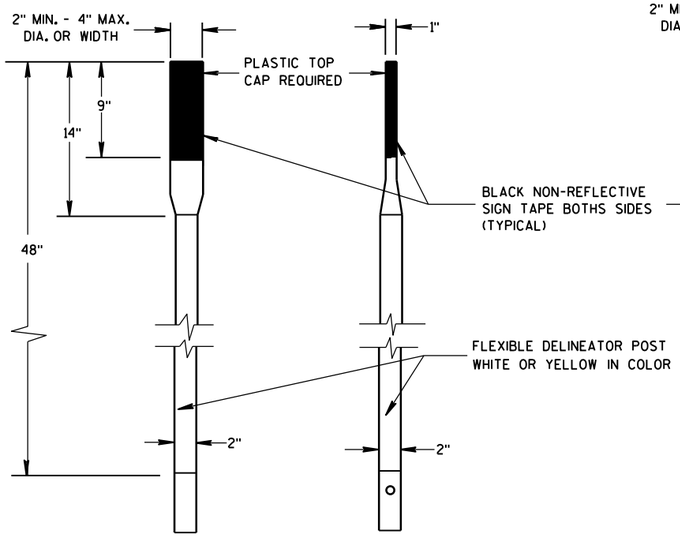
STATE OF WISCONSIN
DEPARTMENT OF TRANSPOI

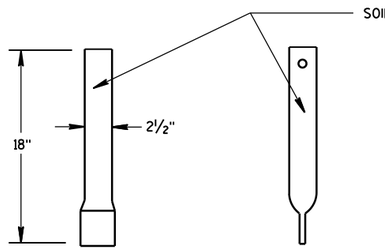
6

S.D.D. 15 A 3-2a

6

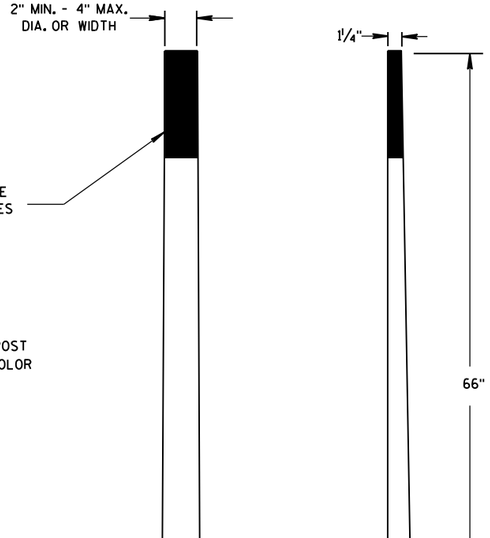
S.D.D. 15 A 3-2a





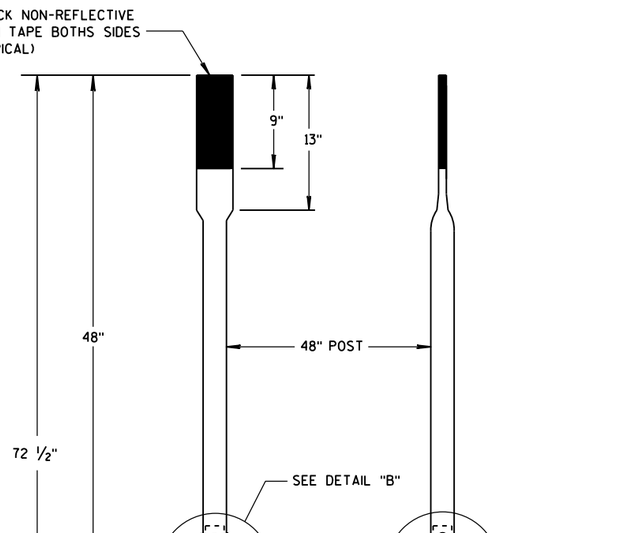
FRONT VIEW SIDE VIEW

ALTERNATE 1



FRONT VIEW SIDE VIEW

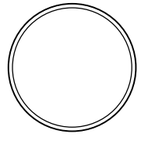
ALTERNATE 2



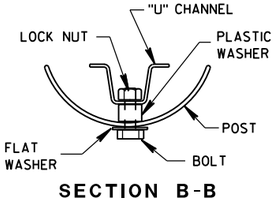
FRONT VIEW SIDE VIEW

ALTERNATE 3

FLEXIBLE MARKER POSTS

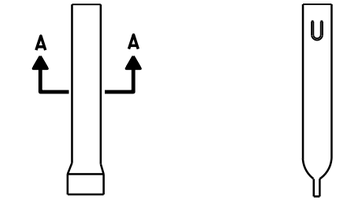


SECTION A-A



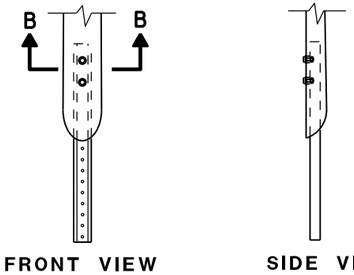
SECTION B-B

SECTION C-C



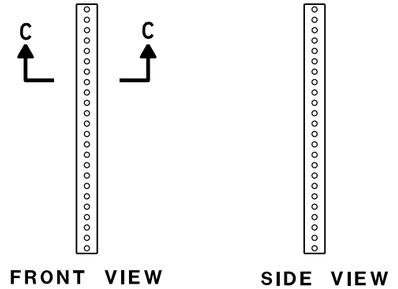
FRONT VIEW SIDE VIEW

ALTERNATE 1



FRONT VIEW SIDE VIEW

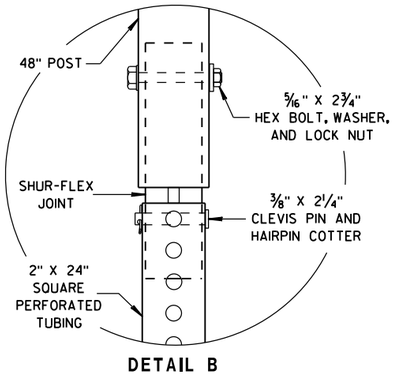
ALTERNATE 2



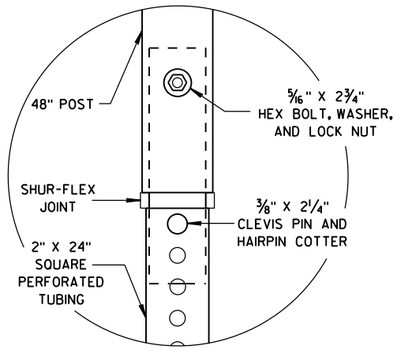
FRONT VIEW SIDE VIEW

ALTERNATE 3

FLEXIBLE MARKER POST ANCHORS



DETAIL B



DETAIL C

FLEXIBLE MARKER POST
FOR CULVERT END

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

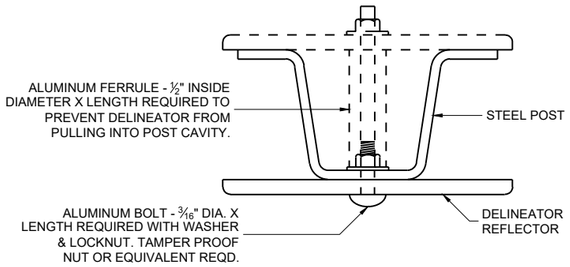
APPROVED
10/1/2012 — DATE
/S/ Travis Feltes — STATE TRAFFIC ENGINEER
FHWA

6

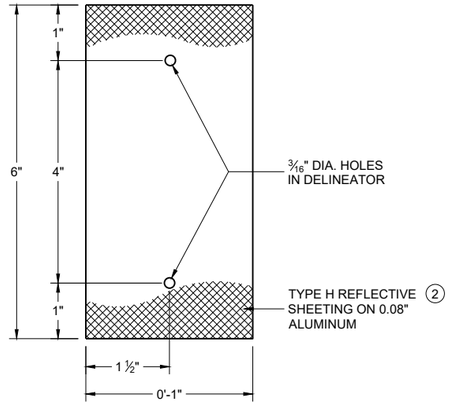
S.D.D. 15 A 3-2b

6

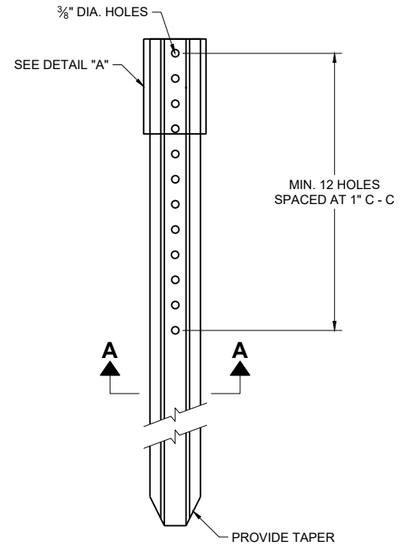
S.D.D. 15 A 3-2b



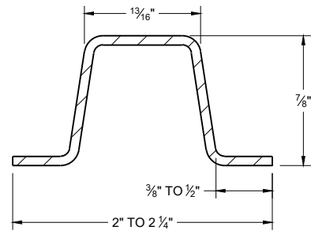
MOUNTING DETAIL FOR DELINEATOR REFLECTOR



DETAIL "A" 3" X 6" DELINEATOR REFLECTOR



DELINEATOR POST



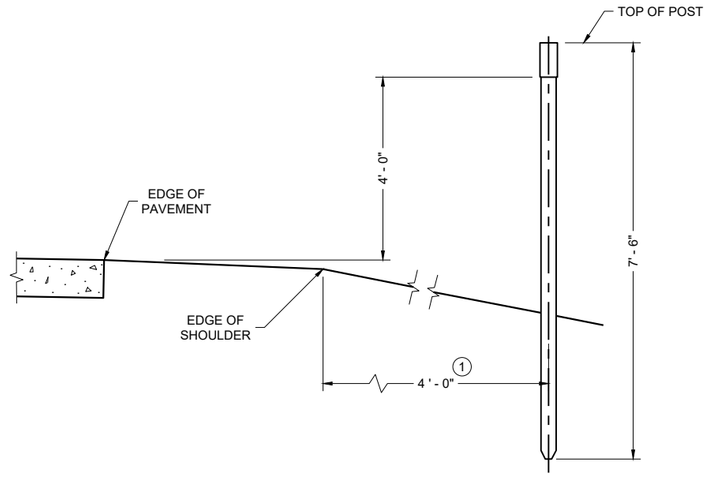
SECTION A - A

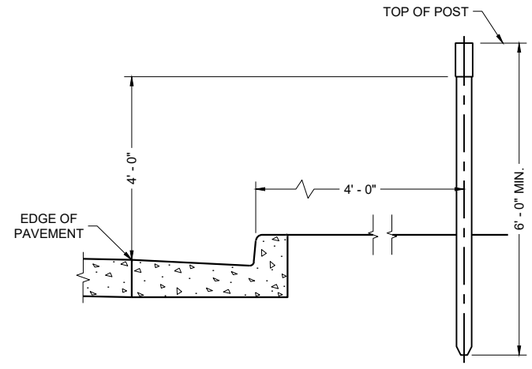
WEIGHT 1.12 LBS PER FT. \ 0.1 LB.

REFLECTOR SPACING TABLE

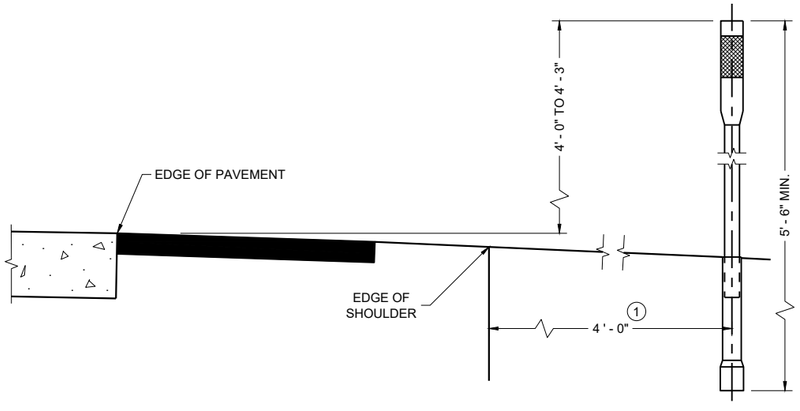
REFLECTOR SPACING	LOCATION
* 100' C-C	RAMPS
400' C-C	MAINLINE

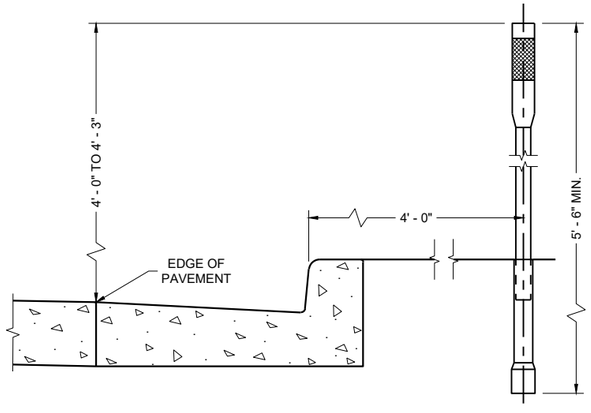
* START AT BEGINNING OF RAMP TAPER AND END AT END OF RAMP TAPER





TYPICAL INSTALLATIONS OF DELINEATOR POSTS





TYPICAL INSTALLATIONS OF FLEXIBLE DELINEATOR POSTS

GENERAL NOTES

DETAILS OF CONSTRUCTION NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF TEH STANDARD SPECIFICATIONS AND THE APPLICABLE SPECIAL PROVISIONS.

(1) DELINEATORS SHALL BE PLACED AT A CONSTANT DISTANCE FROM THE EDGE OF THE SHOULDER FOR THE LENGTH OF THE INSTALLATION.

(2) FURNISH TYPE H SHEETING FROM THE APPROVED PRODUCTS LIST.

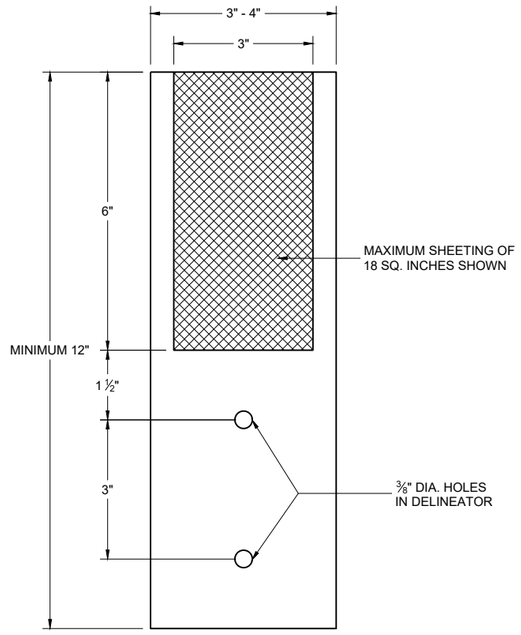
DELINEATOR POST WITH REFLECTIVE SHEETING

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
March 2024
DATE
/S/ Jeannie Silver
Statewide Pavement Marking Engineer

FHWA

6
SDD 15A04-08c



4" x 12" DELINEATOR
WITH REFLECTIVE SHEETING

REFLECTOR SPACING TABLE

REFLECTOR SPACING	MINIMUM NUMBER OF REFLECTORS
100' C-C	3

DELINEATOR POST
WITH REFLECTIVE SHEETING

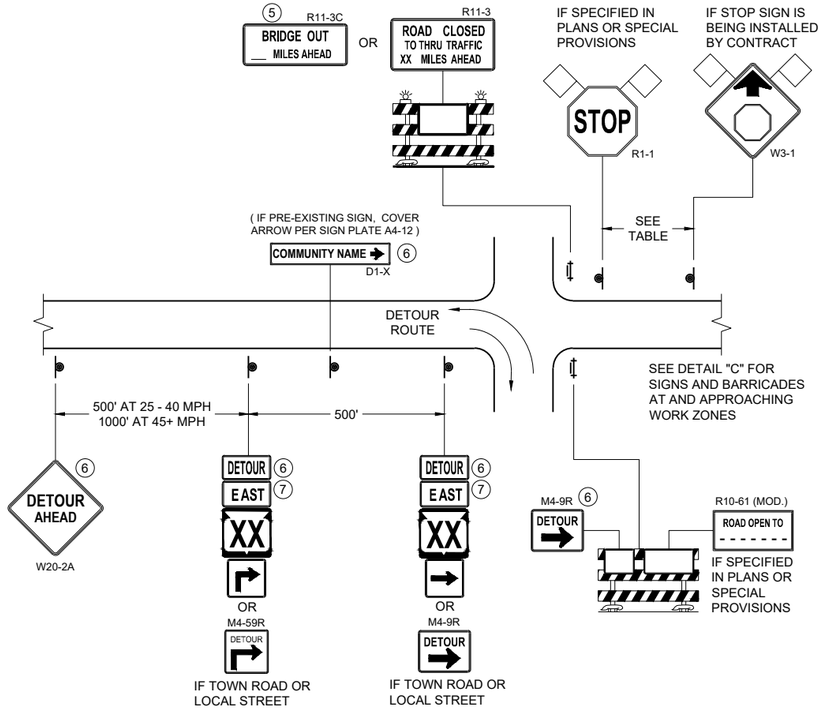
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
March 2024
DATE

/S/ Jeannie Silver
Statewide Pavement Marking Engineer

FHWA

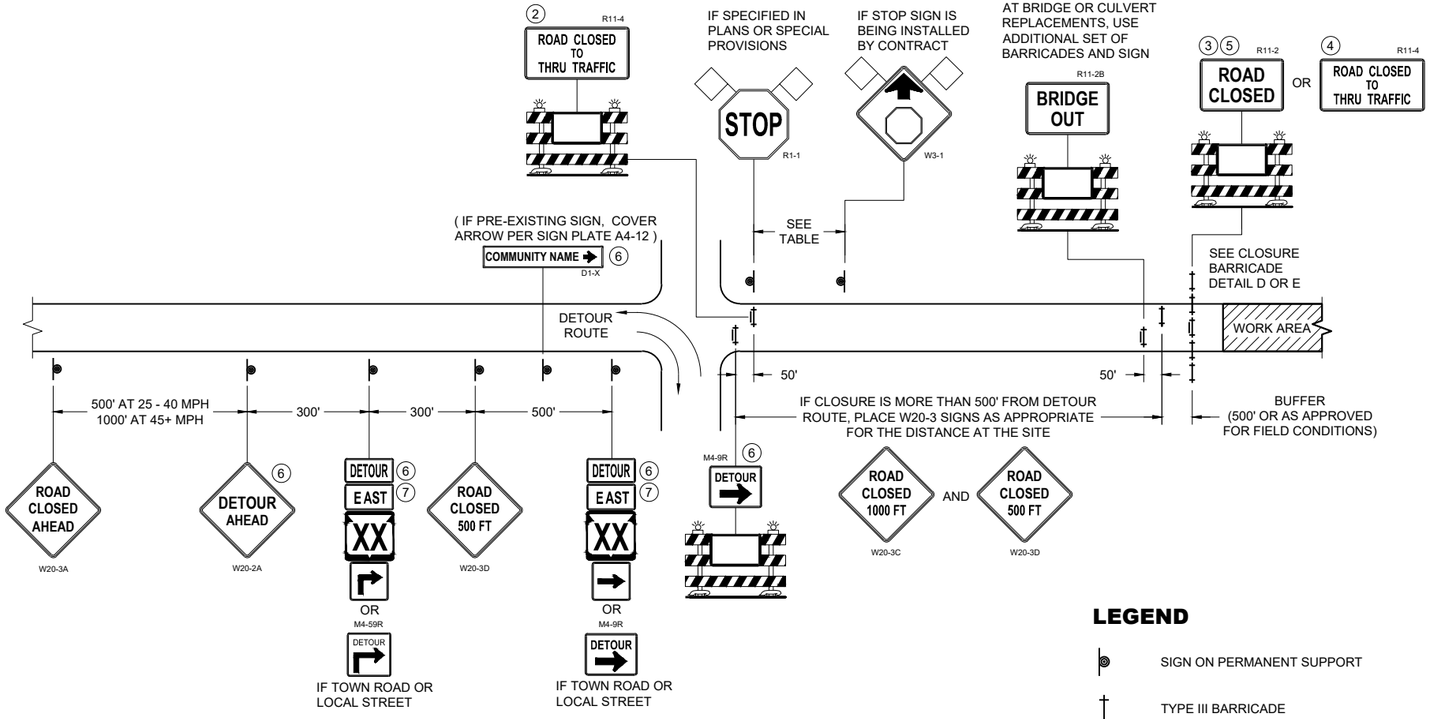
6
SDD 15A04-08e



DETAIL A

MAINLINE CLOSURE WITH POSTED DETOUR

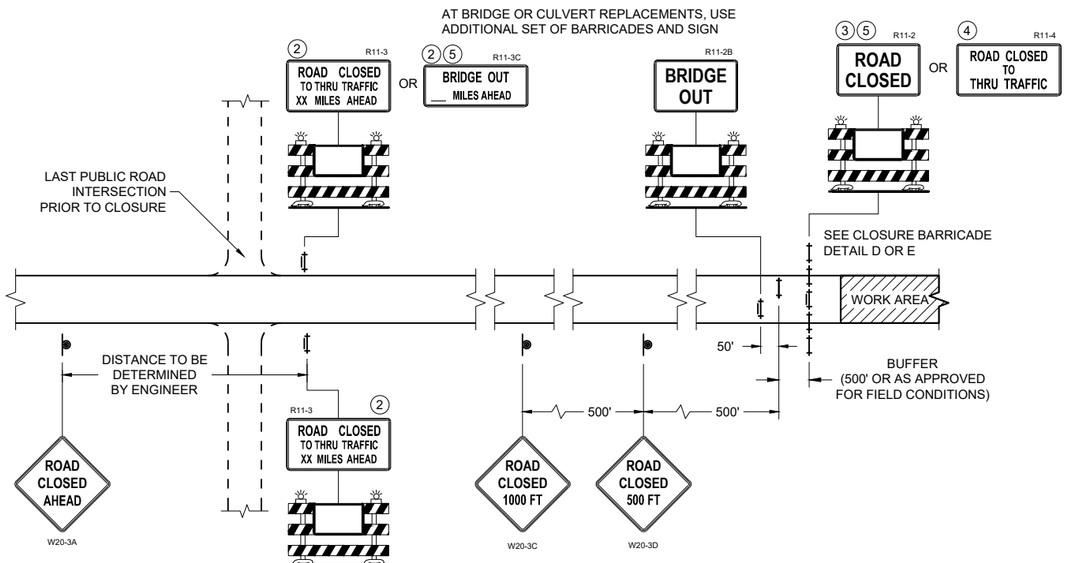
WORK ZONE GREATER THAN OR EQUAL TO ½ MILE FROM DETOUR ROUTE (1000 FEET IF URBAN)



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
- TYPE "A" WARNING LIGHT (FLASHING)
- WORK AREA
- FLAGS, 16" X 16" MIN. (ORANGE)

DETOUR M4 - 8
EAST M3 - X
XX M1 - 4 OR XX M1 - 6 OR COUNTY X M1 - 5A
M05 - 1 OR M06 - 1

BARRICADES AND SIGNS FOR MAINLINE CLOSURES

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
November 2025 — DATE
/S/ Andrew Heidtke — WORK ZONE ENGINEER
FHWA

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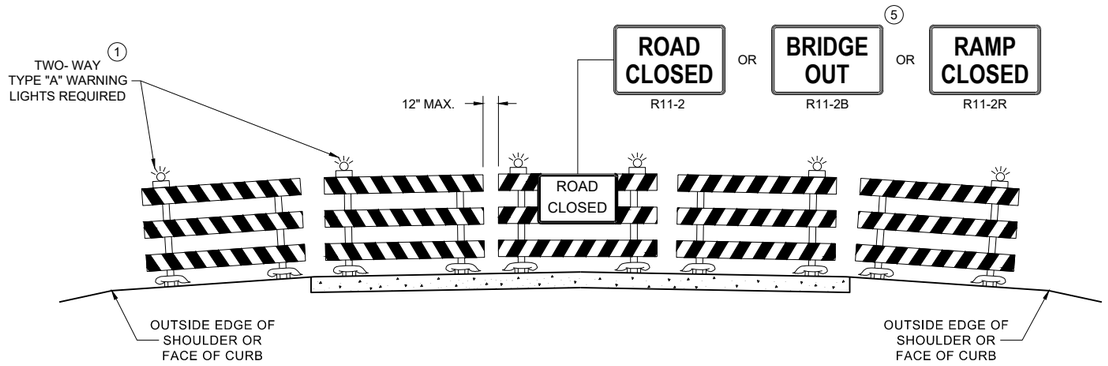
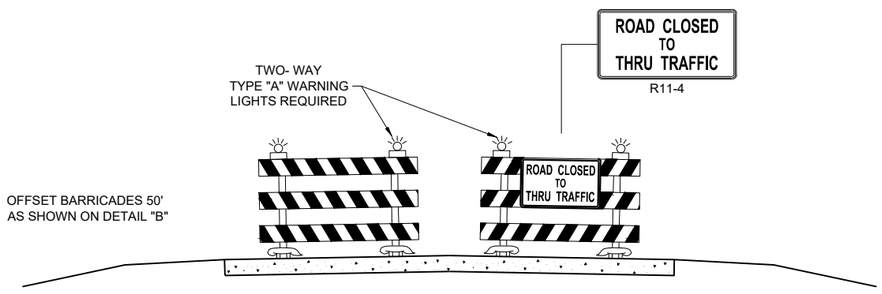
SDD 15C02-10a



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.

PARTIAL NUMBERS ON SIGNS SHALL BE DISPLAYED AS A WHOLE NUMBER(AS NEEDED) FOLLOWED BY A FRACTION. SIGNS SHALL NOT DISPLAY NUMBERS IN DECIMAL FORM.

"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 SHALL, 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" (36" X 18" 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)
- MO5 - 1 AND MO6 - 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"

SIGNS PLACED ON TYPE III BARRICADES THAT ARE SIZES OTHER THAN 48"X30" SHALL HAVE A CORRUGATED POLYPROPYLENE OR POLYETHYLENE PLASTIC SIGN BASE.

(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 AN 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 ROAD 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 VARIOUS CLOSURES

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
November 2025 — DATE
/S/ Andrew Heidtke — WORK ZONE ENGINEER

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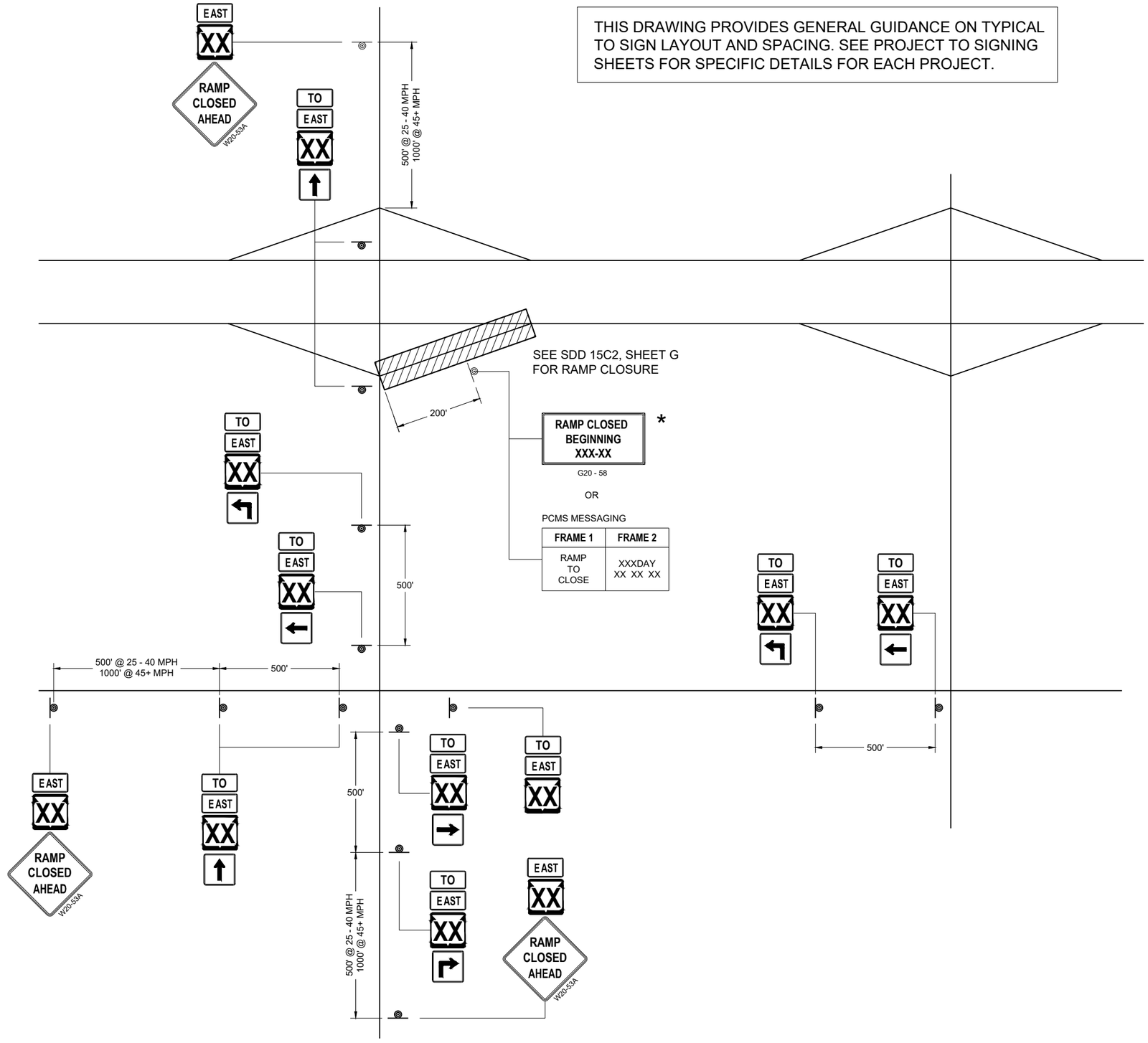

THIS DRAWING PROVIDES GENERAL GUIDANCE ON TYPICAL TO SIGN LAYOUT AND SPACING. SEE PROJECT TO SIGNING SHEETS FOR SPECIFIC DETAILS FOR EACH PROJECT.

LEGEND

SIGN ON PERMANENT SUPPORT

TO / EAST — MO4 - 5; M3 - X

XX M1 - 6 OR XX M1 - 4 OR INTERSTATE XX M1 - 1

M05 - 1 OR M06 - 1 OR M06 - 1

GENERAL NOTES

THE EXACT NUMBER, LOCATION AND SPACING OF ALL SIGNS SHALL BE ADJUSTED TO FIT FIELD CONDITIONS AS APPROVED BY THE ENGINEER.

IF THERE ARE ANY ROUTE MARKER ASSEMBLIES THAT WILL REMAIN IN PLACE, ADJUST THE LOCATION OF THE TO ROUTE SIGNS TO CORRESPOND WITH THE EXISTING ASSEMBLIES. SEE SPECIFIC PROJECT TO SIGNING DETAIL SHEETS. MODIFY EXISTING SIGNS WHERE POSSIBLE.

THE SPACING BETWEEN TRAFFIC CONTROL AND TO SIGNS SHOULD BE ADJUSTED TO NOT CONFLICT WITH AND TO PROVIDE A DESIRABLE MINIMUM OF 200 FEET CLEARANCE TO EXISTING SIGNS THAT WILL REMAIN IN PLACE.

ANY SIGNS TEMPORARY OR EXISTING, WHICH CONFLICT WITH TRAFFIC CONTROL " IN USE" SHALL BE REMOVED OR COVERED AS NEEDED AND AS APPROVED BY THE ENGINEER.

SIGNS THAT SHALL BE IN PLACE LESS THAN 7 CONTINUOUS DAYS AND NIGHTS MAY BE MOUNTED ON PORTABLE SUPPORTS.

"MO" SIGNS ARE THE SAME AS "M" SIGNS EXCEPT THE BACKGROUND IS ORANGE.

SIGN SIZES SHALL BE AS FOLLOW:
- M3 - X SHALL BE 24" X 12". (36" X 18" IF NEEDED TO MATCH EXISTING SIGNS).
- MO4 - 5 SHALL BE 24" X 12". (36" X 18" IF NEEDED TO MATCH EXISTING SIGNS).
- M1 - 1, M1 - 4, AND M1 - 6 SHALL BE 24" X 24" (36" X 36" IF NEEDED TO MATCH EXISTING SIGNS).
- MO5 - 1, MO5 - 2, AND MO6 - 1, SHALL BE 21" X 21". (30" X 30" IF NEEDED TO MATCH EXISTING SIGNS).
- W20 - 53A SHALL BE 48" X 48"

* PLACE "RAMP CLOSED BEGINNING" SIGN 7 CALENDAR DAYS PRIOR TO CLOSURE OR AS DIRECTED BY THE ENGINEER. SEE WISCONSIN STANDARD SIGN PLATES FOR LAYOUT.

ON RAMP LANE CLOSURE

STATE OF WISCONSIN
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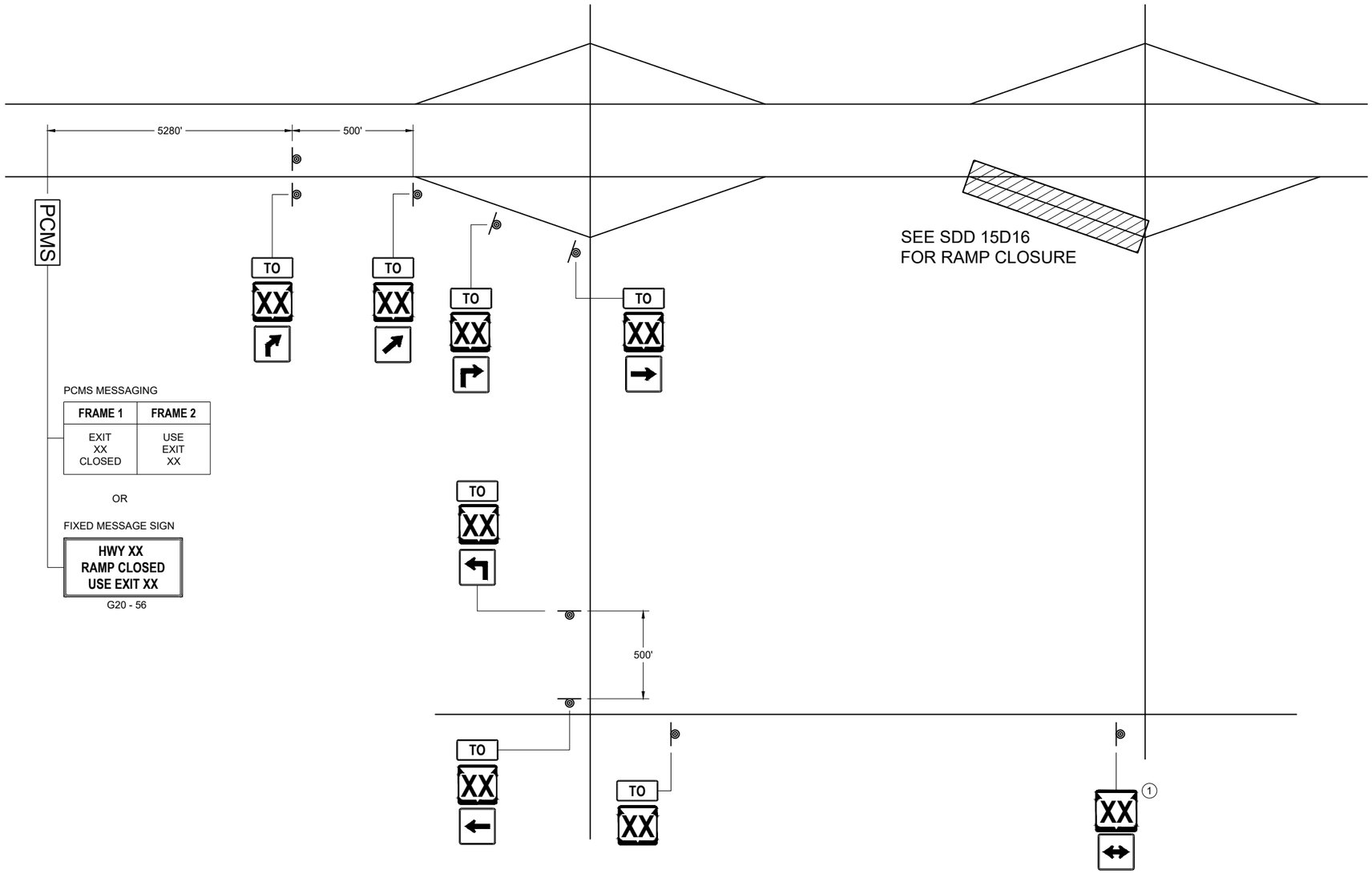
SDD 15C02-10d

6

SDD 15C02-10d

THIS DRAWING PROVIDES GENERAL GUIDANCE ON TYPICAL "TO" MO-4 SIGN LAYOUT AND SPACING. SEE PROJECT TO SIGNING SHEETS FOR SPECIFIC DETAILS FOR EACH PROJECT.



PCMS MESSAGING

FRAME 1	FRAME 2
EXIT XX CLOSED	USE EXIT XX

OR

FIXED MESSAGE SIGN

HWY XX
RAMP CLOSED
USE EXIT XX

G20 - 56

LEGEND

- SIGN ON PERMANENT SUPPORT
- PCMS — PORTABLE CHANGEABLE MESSAGE SIGN
- TO — MO4 - 5
- XX — M1 - 4 OR XX — M1 - 6 OR COUNTY X — M1 - 5A
- M05 - 1 OR M05 - 2 OR M06 - 1 OR M06 - 2 OR M06 - 4

GENERAL NOTES

SEE SDD 15D16 "TRAFFIC CONTROL, EXIT RAMP CLOSURE" DETAIL FOR TRAFFIC CONTROL AT EXIT RAMP CLOSURE.

THE EXACT NUMBER, LOCATION AND SPACING OF ALL SIGNS SHALL BE ADJUSTED TO FIT FIELD CONDITIONS AS APPROVED BY THE ENGINEER.

IF THERE ARE ANY ROUTE MARKER ASSEMBLIES THAT WILL REMAIN IN PLACE, ADJUST THE LOCATION OF THE "TO" MO-4 ROUTE SIGNS TO CORRESPOND WITH THE EXISTING ASSEMBLIES. SEE SPECIFIC PROJECT TO SIGNING DETAIL SHEETS. MODIFY EXISTING SIGNS WHERE POSSIBLE.

THE SPACING BETWEEN TRAFFIC CONTROL AND "TO" MO-4 SIGNS SHOULD BE ADJUSTED TO NOT CONFLICT WITH AND TO PROVIDE A DESIRABLE MINIMUM OF 200 FEET CLEARANCE TO EXISTING SIGNS THAT WILL REMAIN IN PLACE.

ANY SIGNS TEMPORARY OR EXISTING, WHICH CONFLICT WITH TRAFFIC CONTROL " IN USE" SHALL BE REMOVED OR COVERED AS NEEDED AND AS APPROVED BY THE ENGINEER.

SIGNS THAT SHALL BE IN PLACE LESS THAN 7 CONTINUOUS DAYS AND NIGHTS MAY BE MOUNTED ON PORTABLE SUPPORTS.

"MO" SIGNS ARE THE SAME AS "M" SIGNS EXCEPT THE BACKGROUND IS ORANGE.

SIGN SIZES SHALL BE AS FOLLOW:

MO4 - 5 SHALL BE 24" X 12". (36" X 18" 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).
MO5 - 1, MO5 - 2, AND MO6 - 1, SHALL BE 21" X 21". (30" X 30" IF NEEDED TO MATCH EXISTING SIGNS).

(1) ONLY ADD IF THERE ARE NO EXISTING ROUTE MARKERS FOR THE INTERSECTING ROADWAY.

OFF RAMP LANE CLOSURE

STATE OF WISCONSIN
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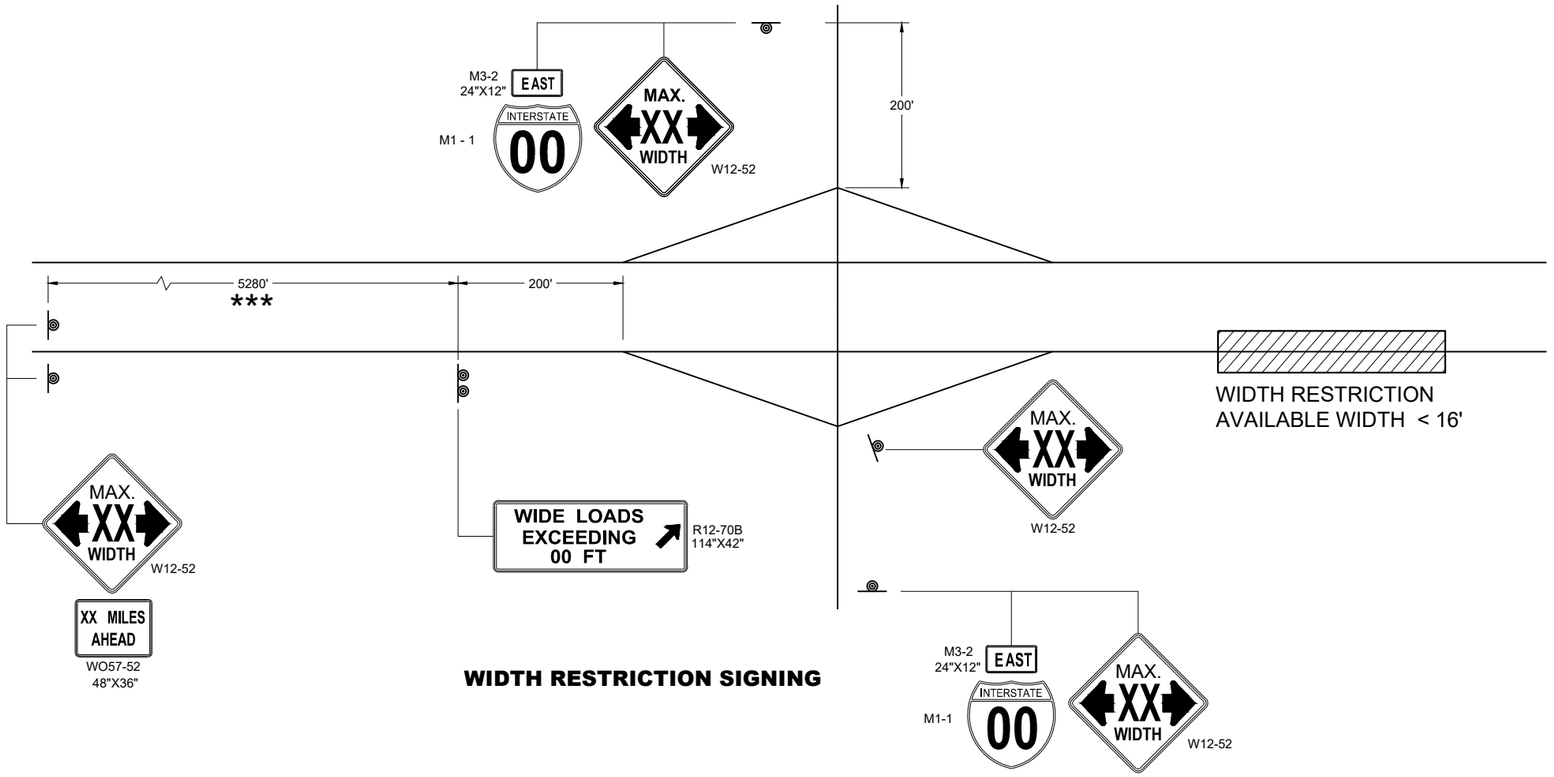


WIDTH RESTRICTION SIGNING

LEGEND

SIGN ON PERMANENT SUPPORT

GENERAL NOTES

THE EXACT NUMBER, LOCATION AND SPACING OF ALL SIGNS SHALL BE ADJUSTED TO FIT FIELD CONDITIONS AS APPROVED BY THE ENGINEER.

THE SPACING BETWEEN SIGNS SHOULD BE ADJUSTED TO NOT CONFLICT WITH AND TO PROVIDE A DESIRABLE MINIMUM OF 200 FEET CLEARANCE TO EXISTING SIGNS THAT WILL REMAIN IN PLACE.

ANY SIGNS TEMPORARY OR EXISTING, WHICH CONFLICT WITH TRAFFIC CONTROL " IN USE" SHALL BE REMOVED OR COVERED AS NEEDED AND AS APPROVED BY THE ENGINEER.

ALL SIGNS ARE 48" X 48" UNLESS OTHERWISE NOTED.

"WO" SIGNS ARE THE SAME AS "W" SIGNS EXCEPT THE BACKGROUND IS ORANGE.

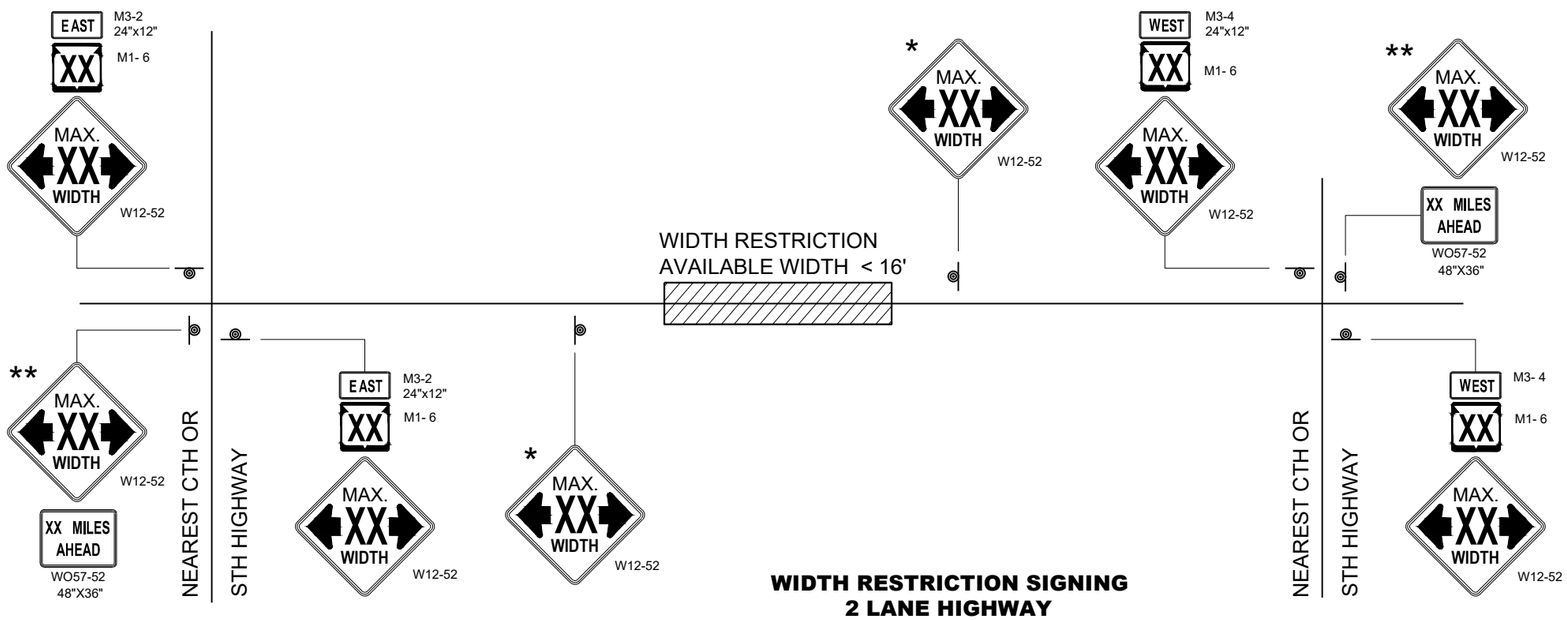
WIDTH ON SIGN TO BE APPROXIMATELY ONE FOOT LESS THAN AVAILABLE WIDTH.

* PLACE 500 FEET AFTER THE W20 - 1A AND 500 FEET BEFORE ADDITIONAL SIGNS FOR ROADWAYS WITH A PRE - CONSTRUCTION SPEED LIMIT OF 45 MPH OR MORE. FOR 35-40 MPH, USE 350 FOOT TYPICAL SPACING. FOR 25-30 MPH, USE 200 FOOT TYPICAL SPACING.

** SIGN SHALL BE VISIBLE FROM ROADWAY.

*** ADDITIONAL SIGNS NEEDED IF THERE IS AN ON RAMP BETWEEN SIGNS.

WIDTH ON SIGN TO BE APPROX. 1 - FOOT LESS THAN AVAILABLE WIDTH



WIDTH RESTRICTION SIGNING
2 LANE HIGHWAY

ADVANCED WIDTH RESTRICTION SIGNING

STATE OF WISCONSIN
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SDD 15C02-10f

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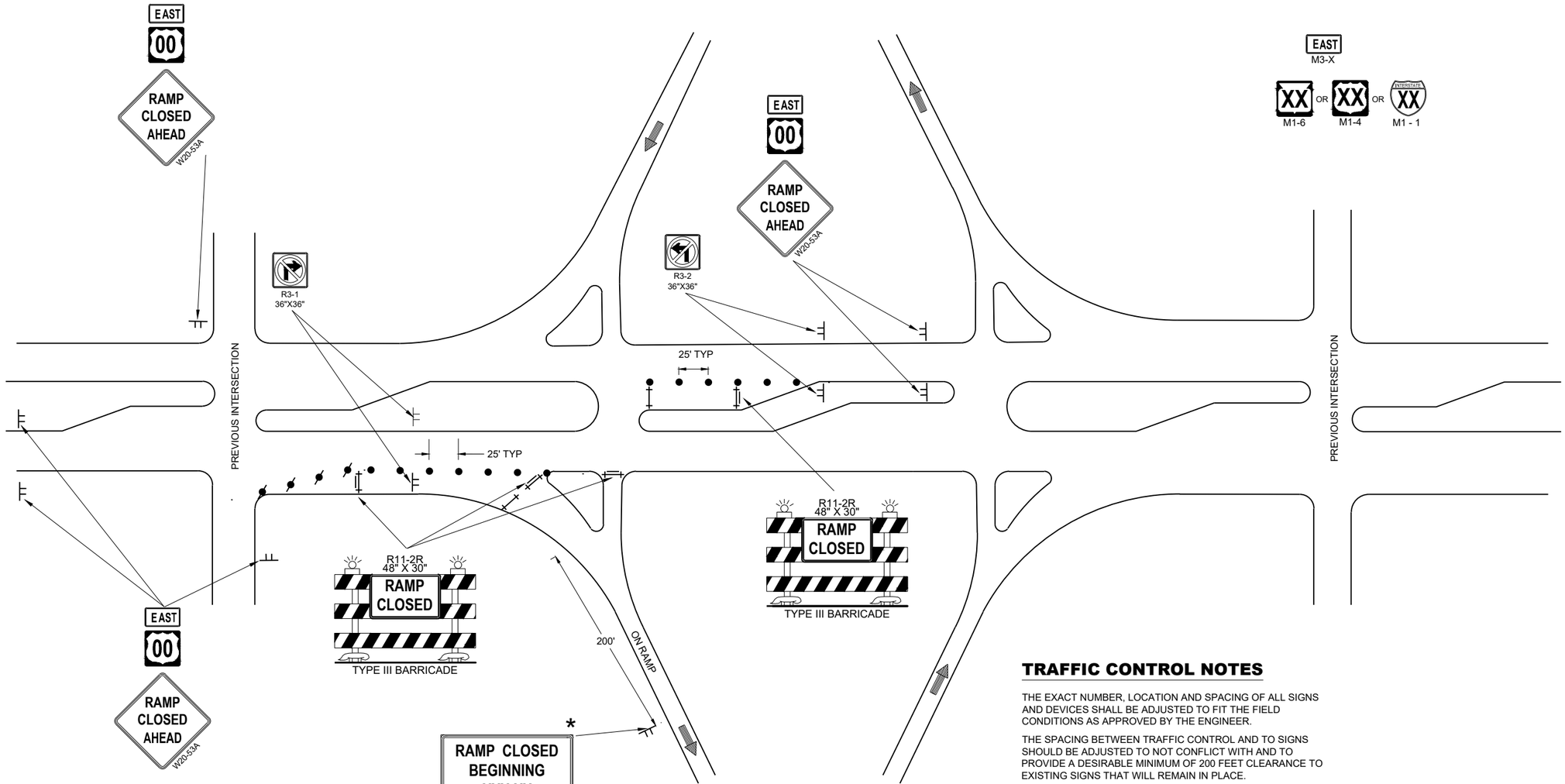

LEGEND

- TRAFFIC CONTROL DRUM
- TRAFFIC CONTROL DRUM WITH TYPE "C" STEADY BURN LIGHT
- TYPE III BARRICADE
- TYPE III BARRICADE WITH ATTACHED SIGN
- SIGN ON PERMANENT SUPPORT
- SIGN ON TEMPORARY SUPPORT
- DIRECTION OF TRAFFIC

TRAFFIC CONTROL NOTES

THE EXACT NUMBER, LOCATION AND SPACING OF ALL SIGNS AND DEVICES SHALL BE ADJUSTED TO FIT THE FIELD CONDITIONS AS APPROVED BY THE ENGINEER.

THE SPACING BETWEEN TRAFFIC CONTROL AND TO SIGNS SHOULD BE ADJUSTED TO NOT CONFLICT WITH AND TO PROVIDE A DESIRABLE MINIMUM OF 200 FEET CLEARANCE TO EXISTING SIGNS THAT WILL REMAIN IN PLACE.

ANY SIGNS TEMPORARY OR EXISTING, WHICH CONFLICT WITH THE TRAFFIC CONTROL "IN USE" SHALL BE REMOVED OR COVERED AS NEEDED AND AS APPROVED BY THE ENGINEER.

SIGNS THAT SHALL BE IN PLACE LESS THAN 7 CONTINUOUS DAYS AND NIGHTS MAY BE MOUNTED ON PORTABLE SUPPORTS.

SIGN SIZES SHALL BE AS FOLLOWS:

- M3-X SHALL BE 24"x24" (36" x18" IF NEEDED TO MATCH EXISTING SIGNS)
- M1-1, M1-4, AND M1-6 SHALL BE 24"x24" (36"x36" IF NEEDED TO MATCH EXISTING SIGNS)
- W20-53A SHALL BE 48"X48"

* PLACE "RAMP CLOSED BEGINNING" SIGN 7 CALENDAR DAYS PRIOR TO CLOSURE OR AS DIRECTED BY THE ENGINEER. SEE WISCONSIN STANDARD SIGN PLATES FOR LAYOUT.

TRAFFIC CONTROL FOR ENTRANCE RAMP CLOSURE

TRAFFIC CONTROL FOR ENTRANCE RAMP CLOSURE

STATE OF WISCONSIN
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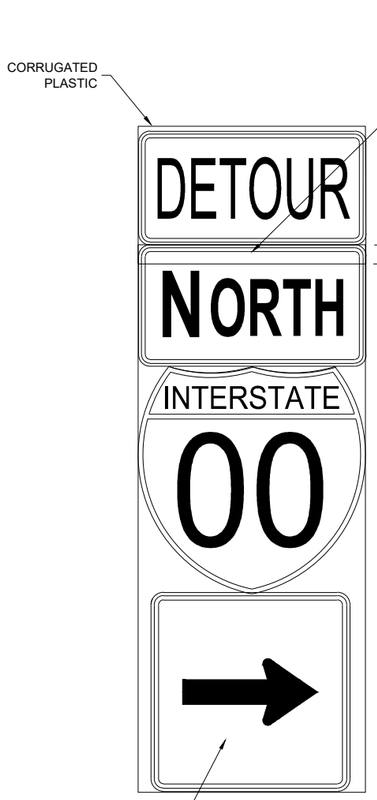
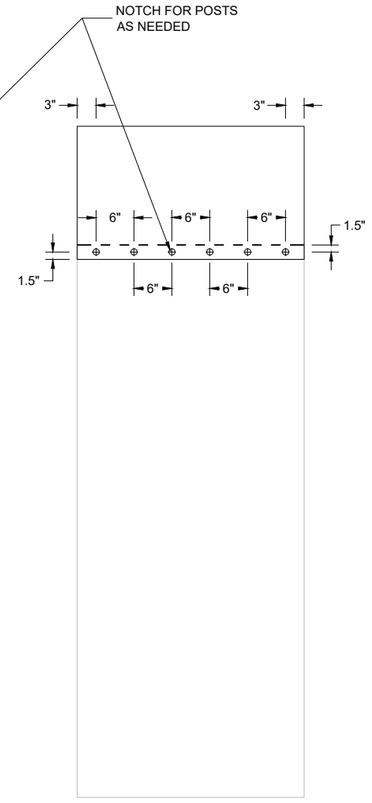
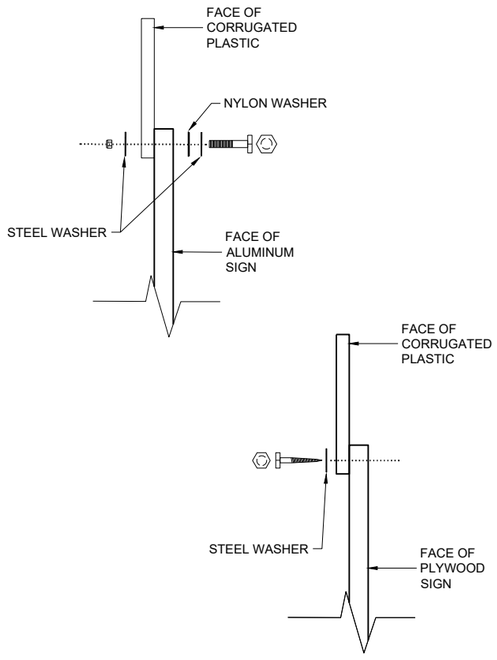
FRONT SIDE



BACK SIDE



SIDE VIEW



GENERAL NOTES

CELLS OF CORRUGATED PLASTIC SHALL BE VERTICALLY ORIENTED.

PROVIDE A 0.4-INCH THICK BASE CORRUGATED PLASTIC WITH A 0.035-INCH WALL THICKNESS AND 0.4-INCH CELL SIZE.

FOR 36" WIDE SIGNS: USE 6 FASTENERS AS SHOWN.

FOR 24" WIDE SIGNS: USE 4 FASTENERS WITH EDGE SPACING AS SHOWN AND 6" SPACING BETWEEN FASTENERS.

METAL WASHERS, NUTS, BOLTS AND LAGS 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, SC3

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.

PLYWOOD SIGNS:
LAG SCREWS - 5/16" x 1"
ALUMINUM SIGNS:
MACHINE BOLTS - 5/16" x 1-1/4" LENGTH W/NUTS
WASHERS:
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

MODIFIED ROUTE ASSEMBLY FOR DETOUR SIGNING

MODIFIED ROUTE ASSEMBLY FOR DETOUR SIGNING

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
November 2025
DATE

/S/ Andrew Heidtke
WORK ZONE ENGINEER

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GENERAL NOTES

THE EXACT NUMBER, LOCATION, AND SPACING OF ALL SIGNS AND DEVICES SHALL BE ADJUSTED TO FIT FIELD CONDITIONS.

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.

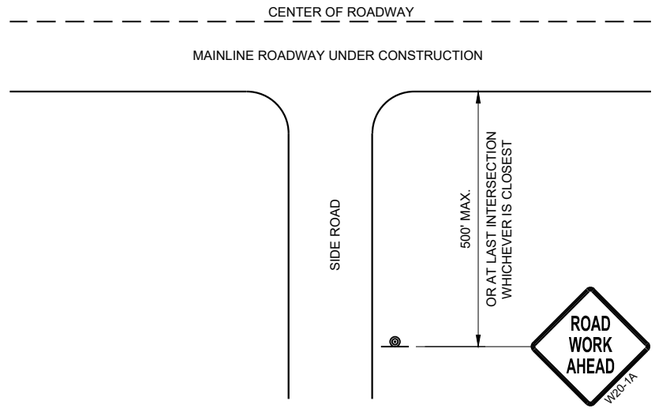
ALL SIGNS ARE 48" X 48" UNLESS OTHERWISE NOTED.

SIGNS THAT WILL BE IN PLACE LESS THAN SEVEN CONTINUOUS DAYS AND NIGHTS MAY BE MOUNTED ON PORTABLE SUPPORTS.

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 REESTABLISHED.

* OMIT G20-1 SIGNS IF LENGTH OF WORK AREA IS 2 MILES OR LESS

** PLACE AN ADDITIONAL W20-1A "ROAD WORK AHEAD" SIGN IF WORK AREA WITHIN THE PROJECT IS SEPARATED BY MORE THAN 2 MILES FROM PREVIOUS WORK AREA.



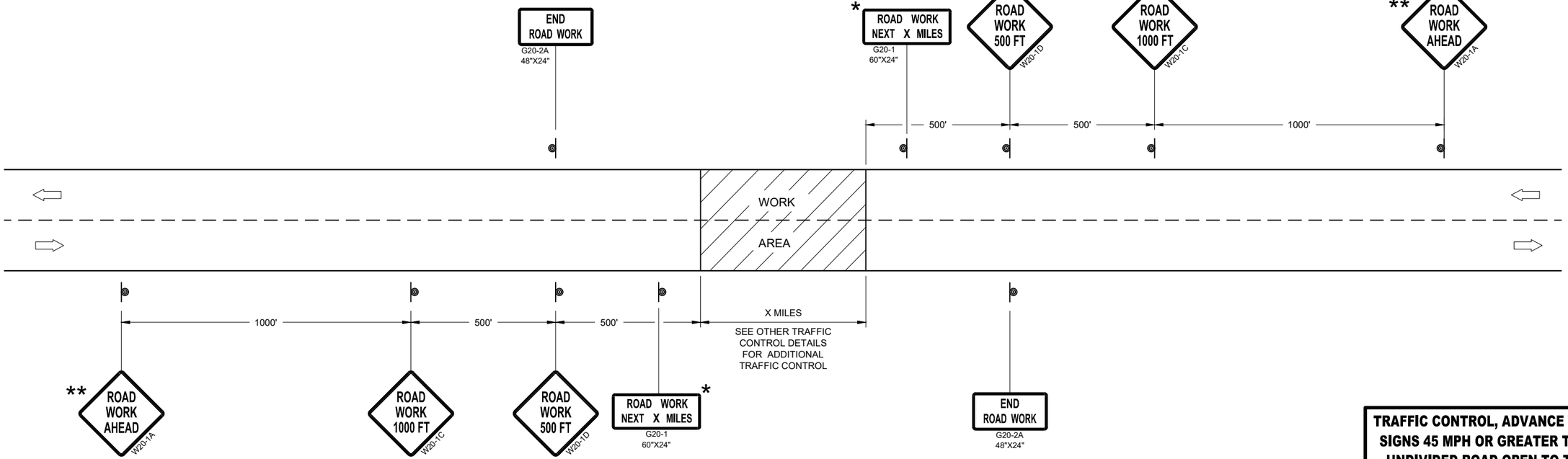
TYPICAL SIDE ROAD APPROACH WARNING SIGN DETAIL

LEGEND

SIGN ON PERMANENT SUPPORT

DIRECTION OF TRAFFIC

WORK AREA



TRAFFIC CONTROL, ADVANCE WARNING SIGNS 45MPH OR GREATER

TRAFFIC CONTROL, ADVANCE WARNING SIGNS 45 MPH OR GREATER TWO-WAY UNDIVIDED ROAD OPEN TO TRAFFIC

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
July 2018
DATE

/S/ Andrew Heidtke
WORK ZONE ENGINEE

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SDD 15C04 - 05

GENERAL NOTES

THE EXACT NUMBER, LOCATION, AND SPACING OF ALL SIGNS AND DEVICES SHALL BE ADJUSTED TO FIT FIELD CONDITIONS.

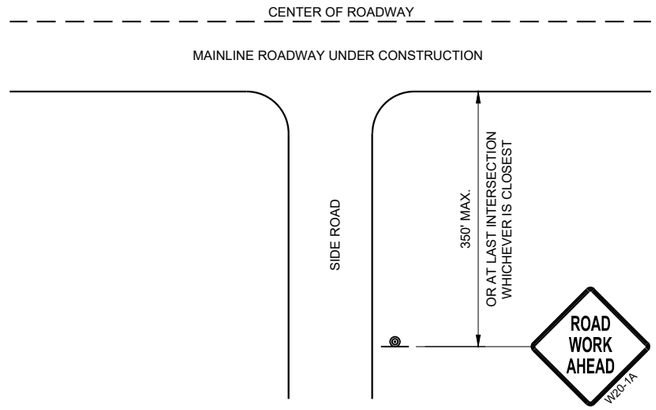
THE SPACING BETWEEN TRAFFIC CONTROL SIGNS SHOULD BE ADJUSTED TO NOT CONFLICT WITH AND SHOULD PROVIDE A MINIMUM OF 200 FEET (500 FEET DESIRABLE) CLEARANCE TO EXISTING SIGNS THAT WILL REMAIN IN PLACE.

ALL SIGNS ARE 48" X 48" UNLESS OTHERWISE NOTED. IF NECESSARY DUE TO SPACE CONSTRAINTS, 36"X36" SIGNS MAY BE USED INSTEAD OF 48" X 48" SIGNS.

SIGNS THAT WILL BE IN PLACE LESS THAN SEVEN CONTINUOUS DAYS AND NIGHTS MAY BE MOUNTED ON PORTABLE SUPPORTS.

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 REESTABLISHED.

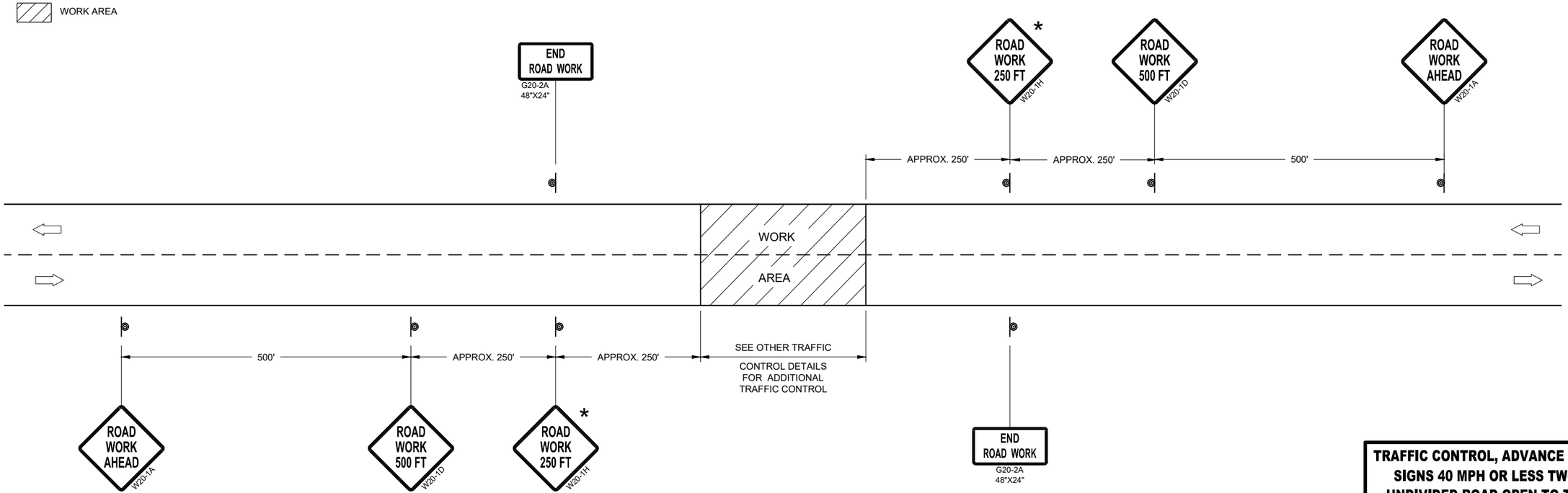
* THE THIRD W20-1 SIGN IS REQUIRED ONLY IF THERE IS AN INTERSECTION BETWEEN THE "ROAD WORK 500 FEET" SIGN AND THE WORK ZONE. ADJUST THE PLACEMENT OF THIS SIGN BASED ON INTERSECTION LOCATION AND OTHER FIELD CONDITIONS.



TYPICAL SIDE ROAD APPROACH WARNING SIGN DETAIL

LEGEND

- SIGN ON PERMANENT SUPPORT
- DIRECTION OF TRAFFIC
- WORK AREA



TRAFFIC CONTROL, ADVANCE WARNING SIGNS 40MPH OR LESS

TRAFFIC CONTROL, ADVANCE WARNING SIGNS 40 MPH OR LESS TWO-WAY UNDIVIDED ROAD OPEN TO TRAFFIC

STATE OF WISCONSIN
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APPROVED
July 2018
DATE

/S/ Andrew Heidtke
WORK ZONE ENGINEE

FHWA

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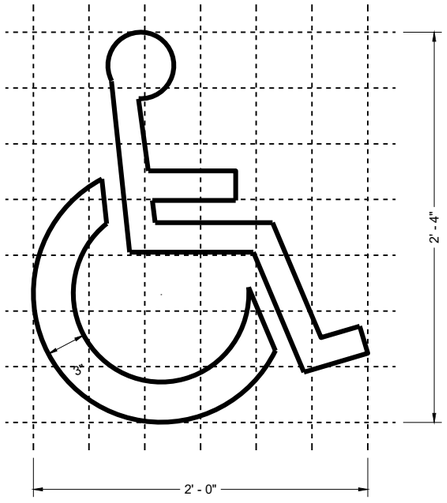
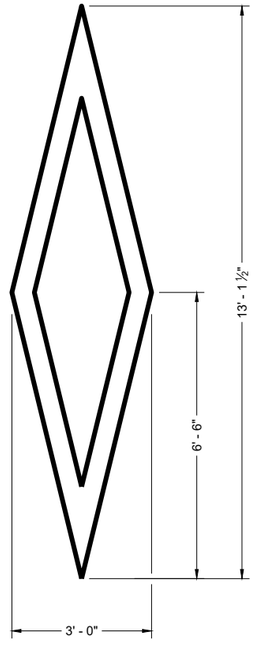
SDD 15C05 - 05

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.



HANDICAP SYMBOL



PREFERENTIAL LANE SYMBOL

6

6

SDD 15C07-16a

SDD 15C07-16a

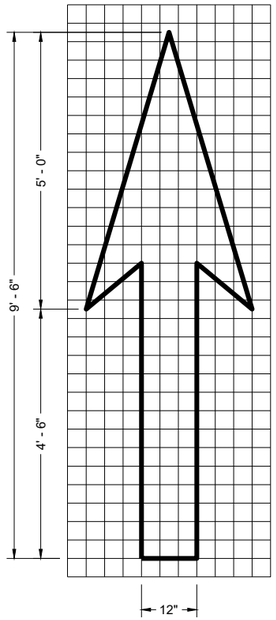
PAVEMENT MARKING SYMBOLS

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

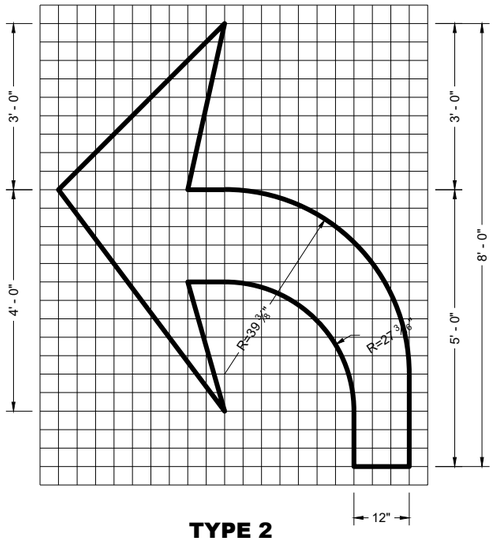
APPROVED
November 2024
DATE

/S/ Jeannie Silver
STATE SIGNING AND MARKING ENGINEER

FHWA



TYPE 1



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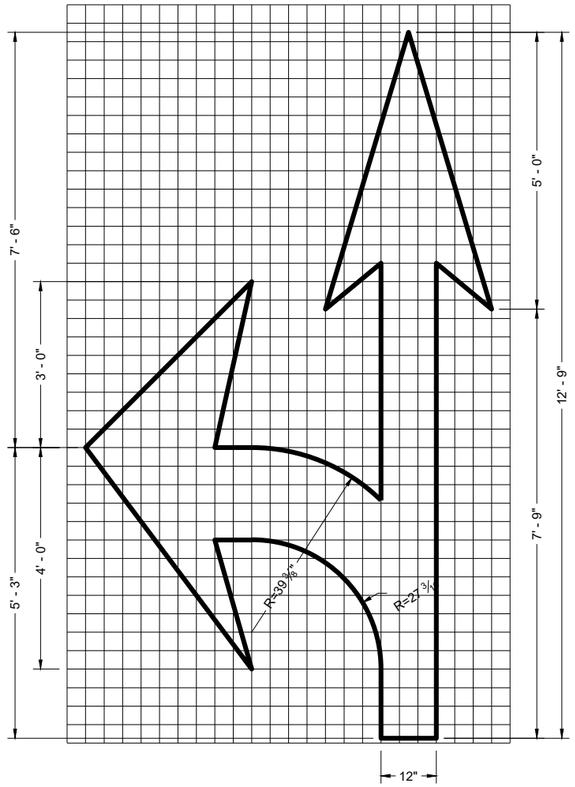
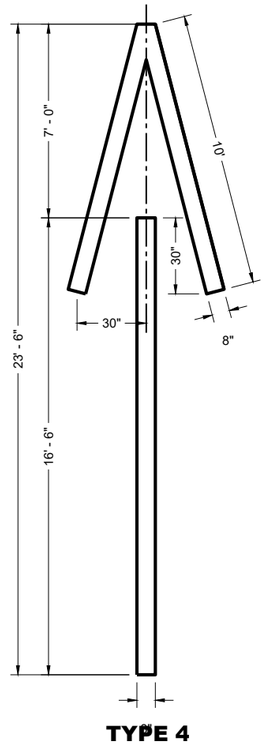


TYPE 3

GENERAL NOTES

DETAILS OF INSTALLATION, MATERIALS AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS AND APPLICABLE SPECIAL PROVISIONS.



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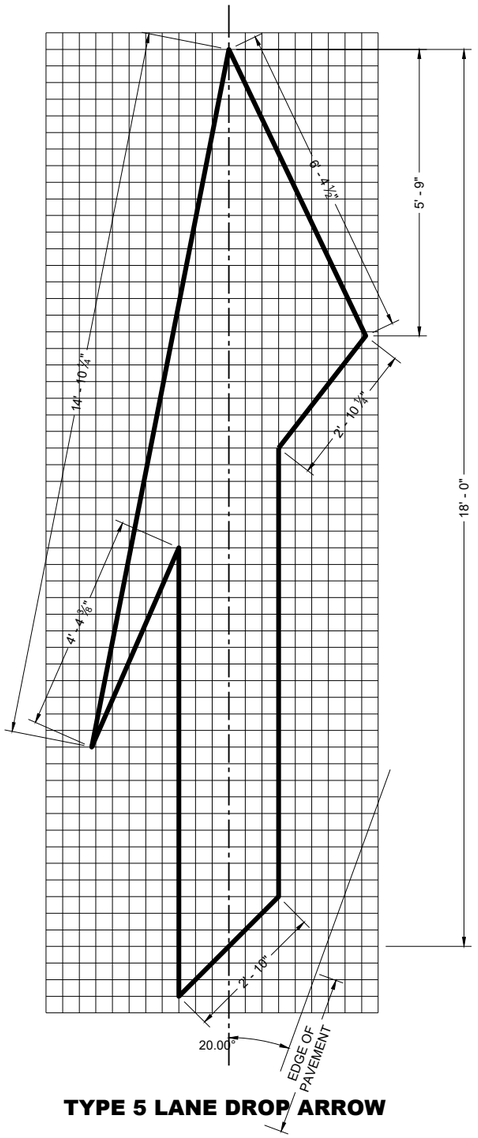
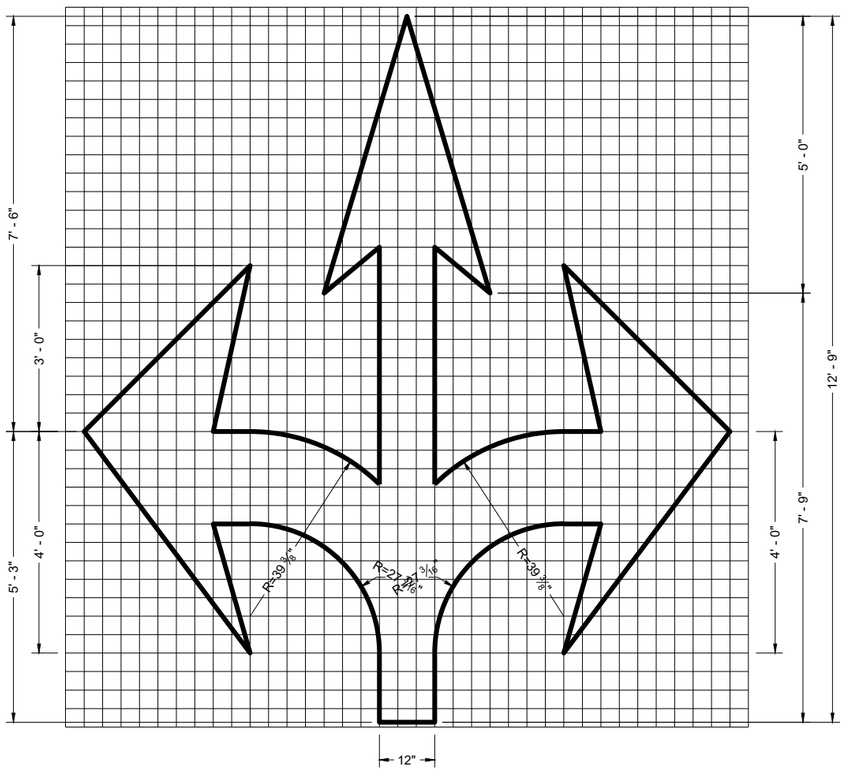
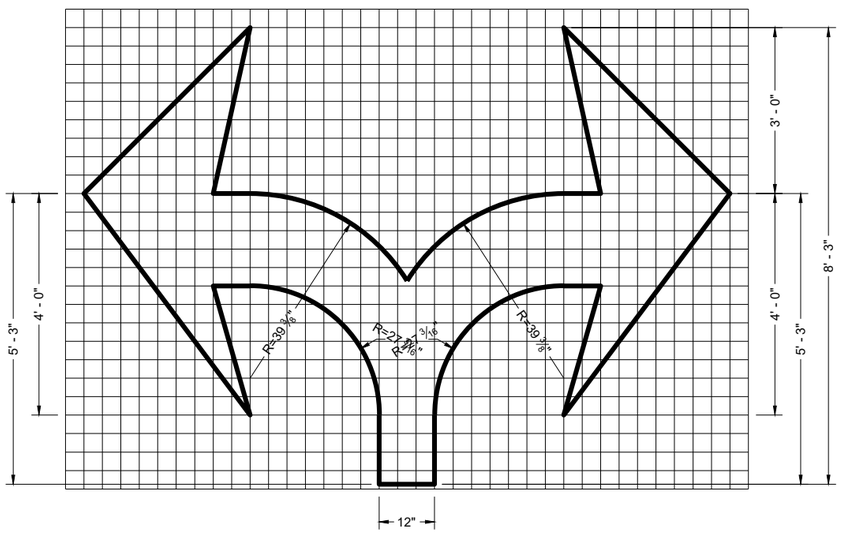


TYPE 5 LANE DROP ARROW



TYPE 6



TYPE 7

PAVEMENT MARKING ARROWS

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
November 2024 — DATE
/S/ Jeannie Silver — STATE SIGNING AND MARKING ENGINEER

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SDD 15C07-16c

SDD 15C07-16c

GENERAL NOTES

DETAILS OF CONSTRUCTION NOT SHOWN ON THIS DRAWING SHALL CONFORM TO STANDARD SPECIFICATIONS AND SPECIAL PROVISIONS.

(1) LOCATE THE NO PASSING ZONE W14-3 SIGN WITHIN 50 FEET OF THE "T" MARKING

(2) MEASURE FROM EDGE OF MARKING TO JOINT LINE. THIS DOES NOT INCLUDE SPACE NEEDED FOR GROOVING OPERATIONS.

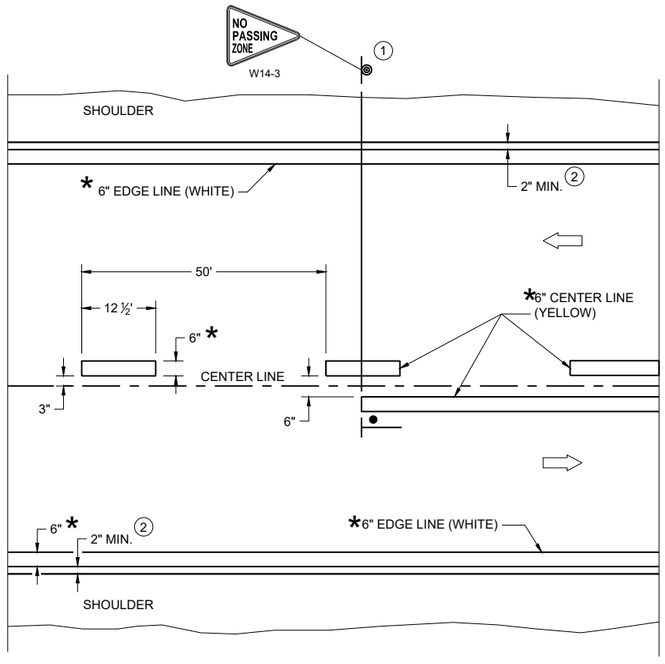
LEGEND

"T" MARKING

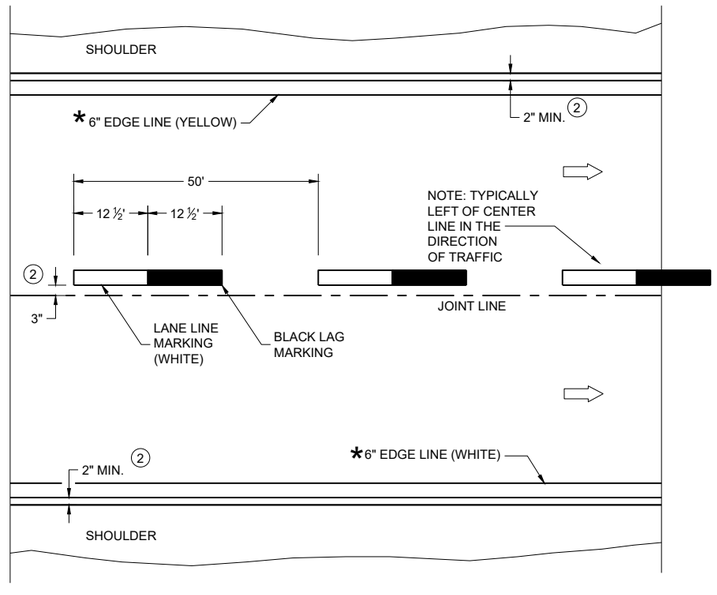
SIGN ON PERMANENT SUPPORT

DIRECTION OF TRAFFIC

*CONFIRM MARKING LINE WIDTH WITH THE MISCELLANEOUS QUANTITIES



TWO WAY TRAFFIC



ONE WAY TRAFFIC

PERMANENT PAVEMENT MARKING

PERMANENT LONGITUDINAL PAVEMENT MARKINGS

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
December 2024
DATE

/S/ Jeannie Silver
Statewide Pavement Marking Engineer

FHWA

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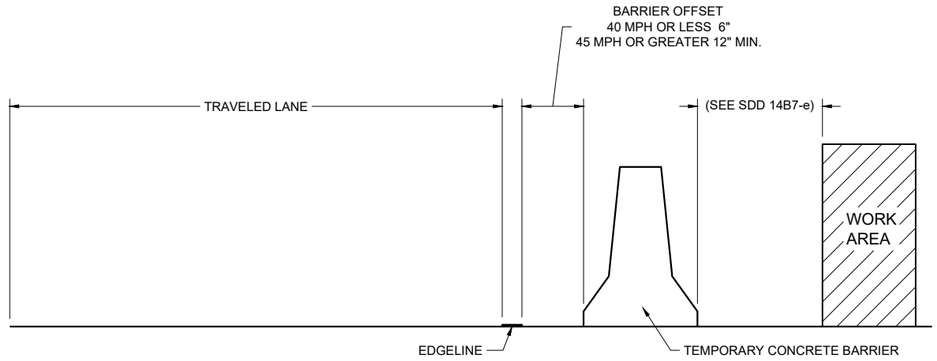
SDD 15C08-24a



TEMPORARY BARRIER OFFSET FROM EDGELINE

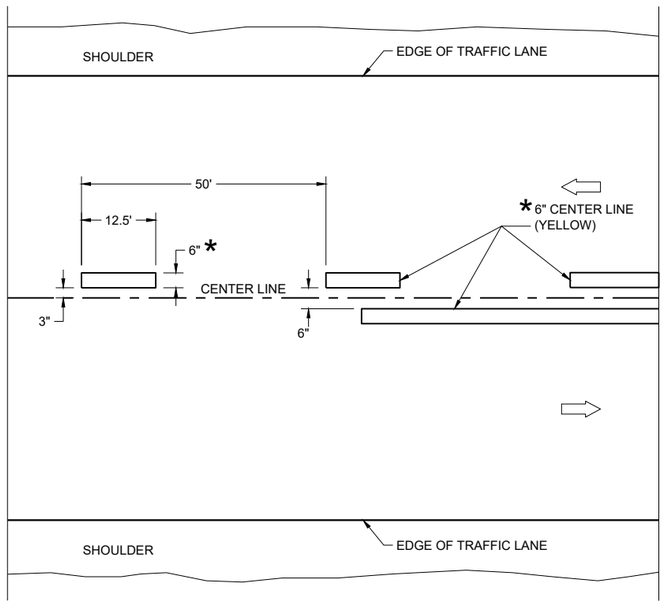
GENERAL NOTES

DETAILS OF CONSTRUCTION NOT SHOWN ON THIS DRAWING SHALL CONFORM TO STANDARD SPECIFICATIONS AND SPECIAL PROVISIONS.

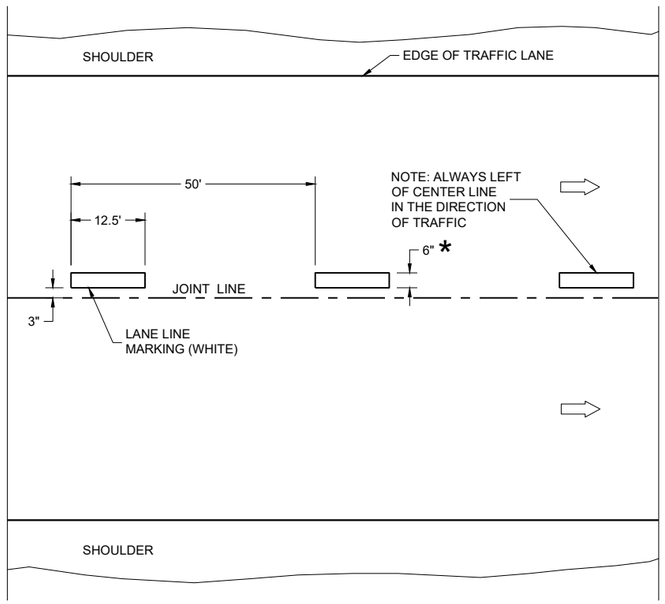
LEGEND

DIRECTION OF TRAFFIC

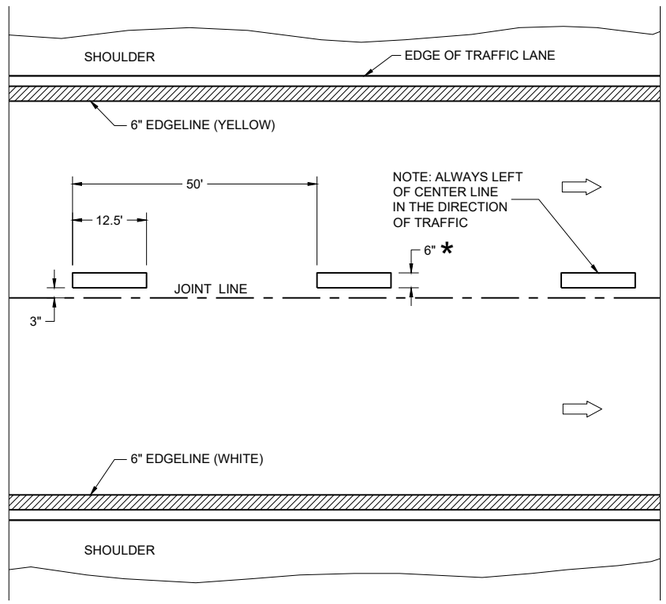
*CONFIRM MARKING LINE WIDTH WITH THE MISCELLANEOUS QUANTITIES



TWO WAY TRAFFIC



ONE WAY TRAFFIC



FREEWAYS AND EXPRESSWAYS

TEMPORARY PAVEMENT MARKING

TEMPORARY LONGITUDINAL PAVEMENT MARKING

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
December 2024
DATE
/S/ Jeannie Silver
Statewide Pavement Marking Engineer
FHWA

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SDD 15C08-24b

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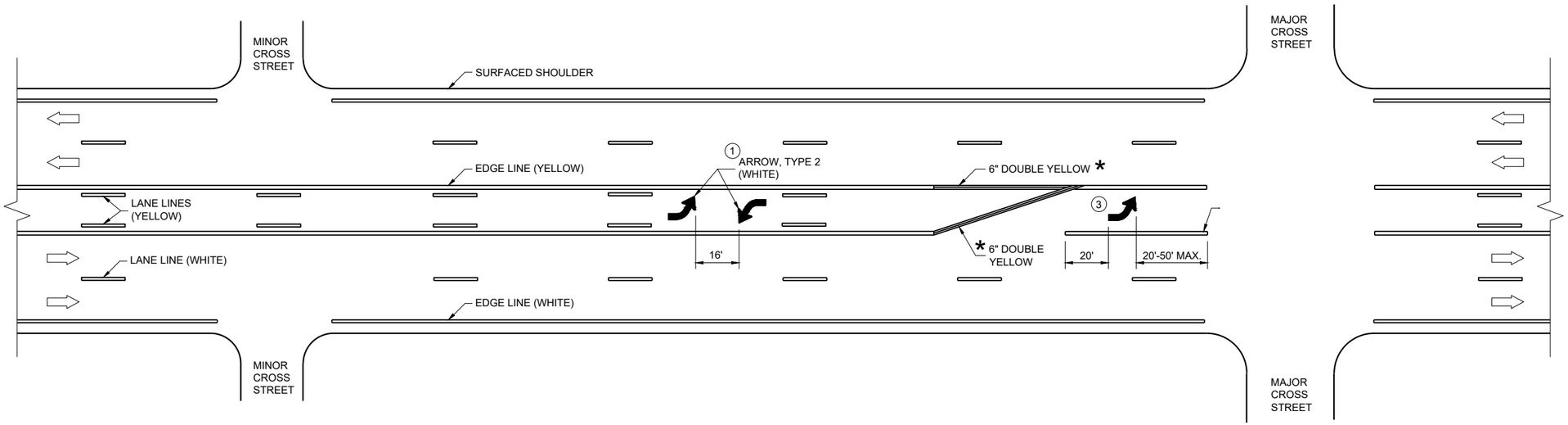
SDD 15C08-24b

GENERAL NOTES

1. A SET OF ARROWS IS REQUIRED EVERY 400 FEET OR NEAR INTERSECTIONS OR DRIVEWAYS WITH TURNING TRAFFIC.
2. 10" WHITE
3. TURN BAY LENGTH OF LESS THAN 48' DOES NOT REQUIRE PAVEMENT ARROWS OR TEXT.

⇨ DIRECTION OF TRAFFIC

*CONFIRM MARKING LINE WIDTH WITH THE MISCELLANEOUS QUANTITIES



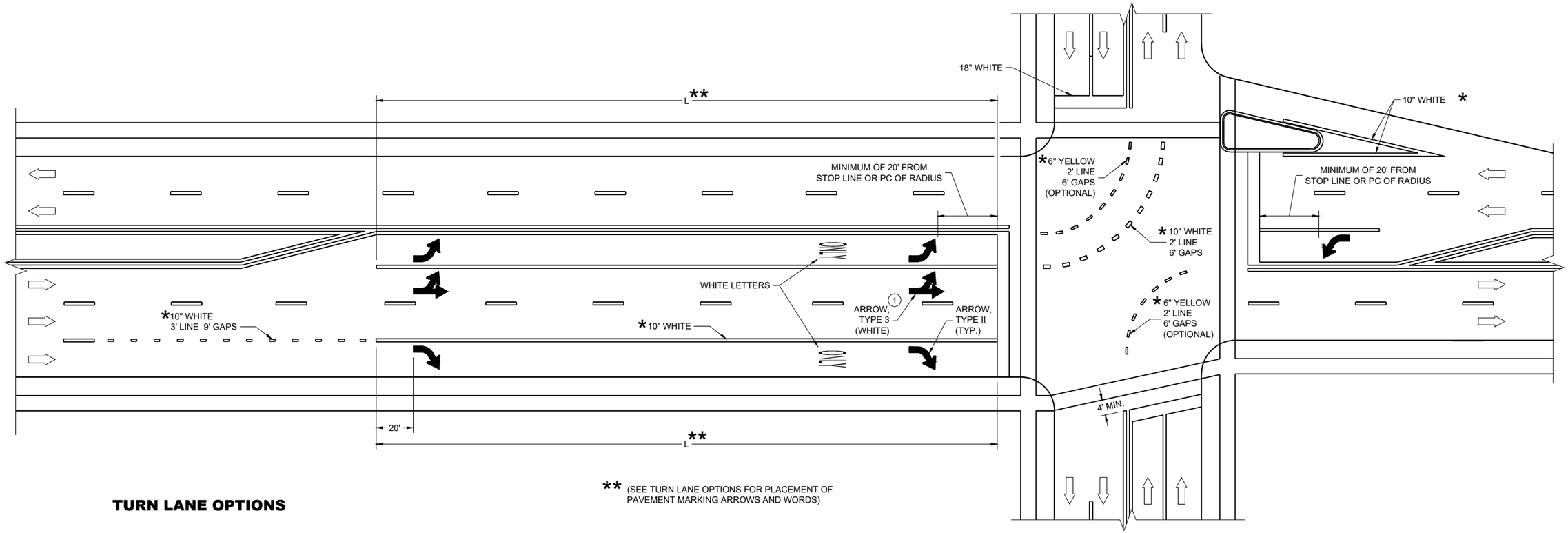
TWO WAY LEFT TURN LANE

PAVEMENT MARKING (TURN LANES)

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

6

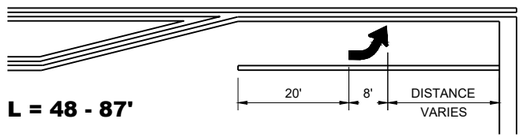
SDD 15C08-24c



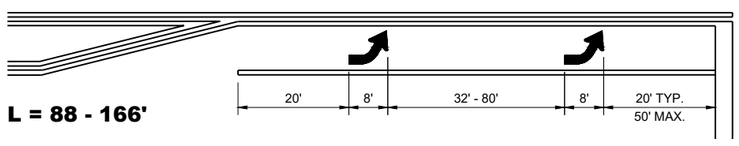
** (SEE TURN LANE OPTIONS FOR PLACEMENT OF PAVEMENT MARKING ARROWS AND WORDS)

TURN LANE OPTIONS

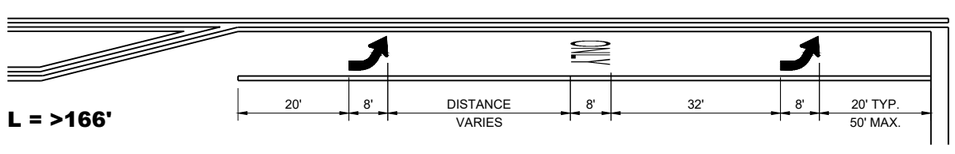
LENGTH OF TURN BAY (**L**) OF 0 - 47' DOES NOT
REQUIRE PAVEMENT MARKING ARROWS OR WORDS



L = 48 - 87'



L = 88 - 166'



L = >166'

GENERAL NOTES

1. QUANTITY AND LOCATION OF TYPE 3 ARROWS ARE THE SAME AS THE TYPE II ARROWS IN THE ADJACENT TURN LANE. FOR TURN LANES WITH A PHYSICAL SEPARATION IN THE SAME DIRECTION OF TRAVEL, THE ARROWS AND "ONLY" MARKING MAY BE ELIMINATED.

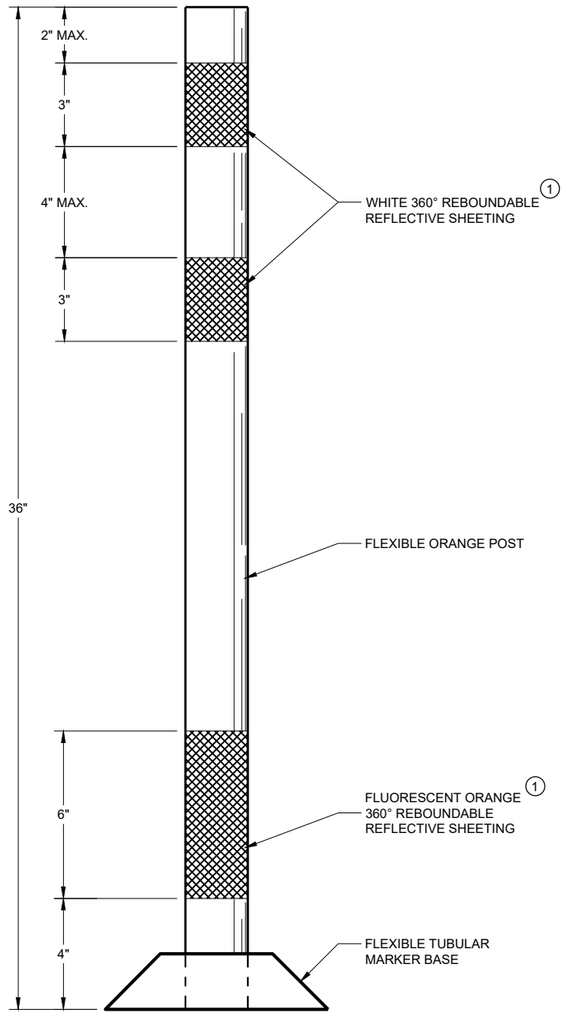
DIRECTION OF TRAFFIC

L = LENGTH OF TURN BAY

*CONFIRM MARKING LINE WIDTH WITH THE MISCELLANEOUS QUANTITIES

PAVEMENT MARKING (TURN LANES)

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION



FLEXIBLE TUBULAR MARKER POST WORK ZONE

GENERAL NOTES

DETAILS OF CONSTRUCTION NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS AND THE APPLICABLE SPECIAL PROVISIONS.

SURFACE MOUNTED BASES SHALL BE FURNISHED IN ACCORDANCE WITH MANUFACTURERS RECOMMENDATIONS TO BE COMPATIBLE WITH FLEXIBLE TUBULAR MARKER POSTS TO A SIZE AND SHAPE THAT WILL PROVIDE A STABLE POST FOUNDATION WHEN SECURED TO THE PAVEMENT.

THE ASPHALTIC ADHESIVE OR BUTYL PAD FURNISHED SHALL BE IN ACCORDANCE WITH MANUFACTURERS RECOMMENDATIONS, UNLESS DIRECTED BY THE ENGINEER TO USE BOLTS.

(1) REFLECTIVE SHEETING SHALL FOLLOW THE REQUIREMENTS IN THE APPROVED PRODUCTS LISTING FOR SIGN SHEETING.

6

SDD 15C11 - 10a

CHANNELIZING DEVICES
FLEXIBLE TUBULAR MARKER POST

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
November 2022
DATE

/S/ Andrew Heidtke
WORK ZONE ENGINEE

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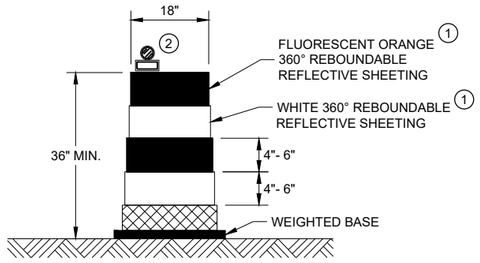
SDD 15C11 - 10a

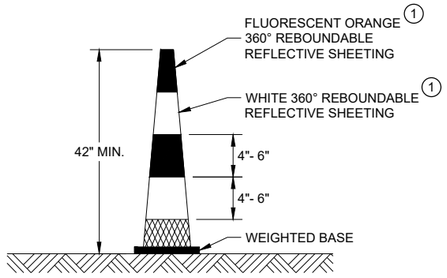
GENERAL NOTES

1. REFLECTIVE SHEETING SHALL FOLLOW THE REQUIREMENTS IN THE APPROVED PRODUCTS LISTING FOR SIGN SHEETING.
2. LOCATION OF WARNING LIGHTS WHEN SHOWN ON THE PLAN.



DRUM

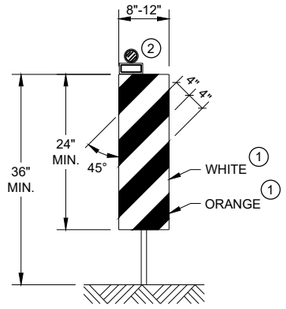
BALLAST WIDTHS
RANGE FROM 24"-36"



42" CONE

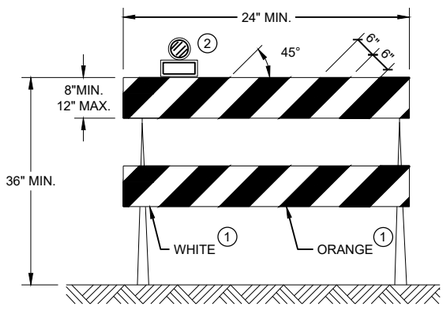
DO NOT USE IN TAPERS
½ SPACING OF DRUMS

BALLAST WIDTHS
RANGE FROM 14"-20"



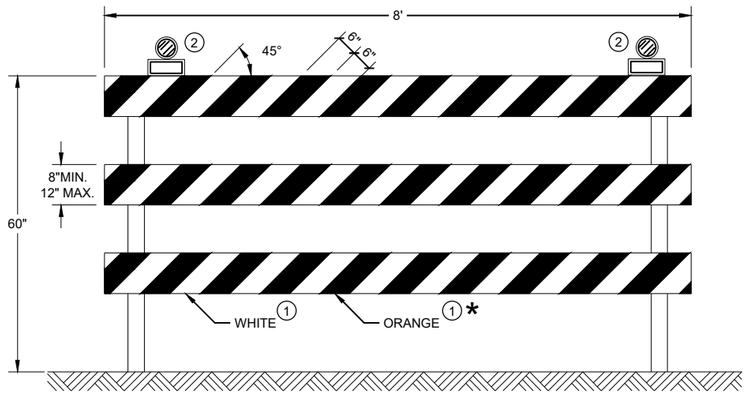
VERTICAL PANEL

THE STRIPES SHALL SLOPE DOWNWARD TO
THE TRAFFIC SIDE FOR CHANNELIZATION.



TYPE II BARRICADE

FOR RAILS LESS THAN 36" LONG, 4" WIDE STRIPES
MAY BE USED. ALL STRIPES SHALL SLOPE DOWNWARD
TO THE TRAFFIC SIDE FOR CHANNELIZATION.



TYPE III BARRICADE

IF SIGN MOUNTED, DO NOT COVER MORE THAN 50% OF THE TOP
TWO RAILS OR 33% OF THE TOTAL AREA OF THE THREE RAILS.

* IF USED FOR A PERMANENT APPLICATION USE RED SHEETING.

CHANNELIZING DEVICES DRUMS, CONES, BARRICADES AND VERTICAL PANELS

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
November 2022
DATE

/S/ Andrew Heidtke
WORK ZONE ENGINEE

FHWA

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SDD 15C11 - 10b

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SDD 15C11 - 10b

LEGEND

SIGN ON PORTABLE OR PERMANENT SUPPORT

TEMPORARY PORTABLE RUMBLE STRIP ARRAY

DIRECTION OF TRAFFIC

WORK AREA

FLAGGER, EQUIPPED WITH STOP/SLOW PADDLE FASTENED ON SUPPORT STAFF

GENERAL NOTES

DETAILS OF TRAFFIC CONTROL DEVICES AND INSTALLATION NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS, THE SPECIAL PROVISIONS, AND THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES.

ALL SIGNS ARE 48" X 48" UNLESS OTHERWISE NOTED.

"WO" SIGNS ARE THE SAME AS "W" SIGNS EXCEPT THE BACKGROUND IS ORANGE.

THE EXACT NUMBER, LOCATION AND SPACING OF ALL SIGNS, DEVICES, AND LOCATION OF ALL FLAGGERS SHALL BE ADJUSTED TO FIT FIELD CONDITIONS AS APPROVED BY THE ENGINEER.

THE FIRST ADVANCE WARNING SIGN SHOULD TYPICALLY BE LOCATED IN ADVANCE OF THE ANTICIPATED TRAFFIC BACKUP OR QUEUE.

WHEN A SIDE ROAD OR RAMP INTERSECTS THE FACILITY ON WHICH THE WORK IS BEING PERFORMED, ADDITIONAL TRAFFIC CONTROLS SHALL BE PROVIDED AS SPECIFIED IN THE PLANS AND/OR THE SPECIAL PROVISIONS OR AS APPROVED BY THE ENGINEER.

FLAGGING

FLAGGERS SHALL BE IN SIGHT OF EACH OTHER OR IN DIRECT COMMUNICATION AT ALL TIMES. THEY SHALL BE EQUIPPED WITH STOP/SLOW PADDLES FASTENED ON SUPPORT STAFFS. WHEN THE FLAGGING OPERATION IS NOT IN EFFECT REMOVE TEMPORARY PORTABLE RUMBLE STRIPS PRIOR TO COVERING OR REMOVING ALL ADVANCE SIGNING.

(1) FOR MOVING WORK OPERATIONS, POST ADDITIONAL W20-7A FLAGGER SIGNS AT APPROXIMATELY 3,500' INTERVALS IN THE MOVING WORK OPERATION OR AS APPROVED BY THE ENGINEER.

(2) SIGN NOT REQUIRED IF FLAGGING OPERATION OCCURS WITHIN A SIGNED ROAD WORK ZONE AREA.

WHEN THE DISTANCE BETWEEN FLAGGERS EXCEEDS 2 MILES, A PILOT CAR IS REQUIRED. WHEN CURVES REDUCE SIGHT DISTANCE BELOW 400', A PILOT CAR IS REQUIRED.

TEMPORARY PORTABLE RUMBLE STRIPS

UTILIZE TEMPORARY PORTABLE RUMBLE STRIPS ON ALL FLAGGING OPERATIONS.

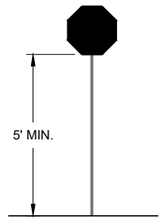
(3) EACH TEMPORARY PORTABLE RUMBLE STRIP ARRAY CONSISTS OF THREE RUMBLE STRIPS PLACED TRANSVERSE ACROSS THE LANE AT THE LOCATIONS SHOWN. WITHIN EACH ARRAY, SPACING BETWEEN RUMBLE STRIPS SHALL BE 15 FEET ON CENTER

ONLY USE TEMPORARY PORTABLE RUMBLE STRIPS FROM THE APPROVED PRODUCTS LIST.

INSTALL TEMPORARY RUMBLE STRIPS PER MANUFACTURER'S RECOMMENDATIONS.

PLACE ADVANCE SIGNING PRIOR TO INSTALLING TEMPORARY RUMBLE STRIPS.

DO NOT INSTALL TEMPORARY PORTABLE RUMBLE STRIPS ON GRAVEL, MILLED SURFACES, OR ASPHALT THAT HAS BEEN PAVED LESS THAN 12 HOURS.



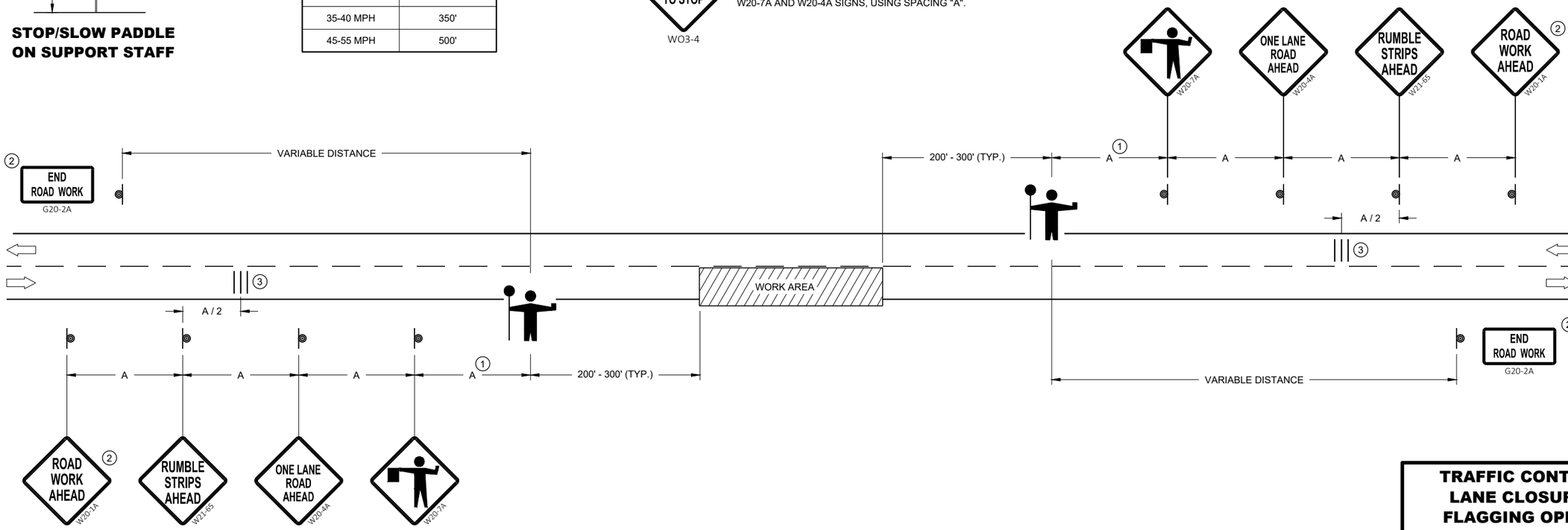
STOP/SLOW PADDLE ON SUPPORT STAFF

SIGN AND TEMPORARY RUMBLE STRIP ARRAY SPACING TABLE

SPEED LIMIT	SPACING "A"
25-30 MPH	200'
35-40 MPH	350'
45-55 MPH	500'

WO3-4

USE OF WO3-4 SIGN IS OPTIONAL. WHEN USED, THIS SIGN SHALL BE LOCATED BETWEEN THE W20-7A AND W20-4A SIGNS, USING SPACING "A".



TRAFFIC CONTROL FOR LANE CLOSURE WITH FLAGGING OPERATION

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
May 2022
DATE

/S/ Andrew Heidtke
WORK ZONE ENGINEE

FHWA

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SDD 15C12 - 09a

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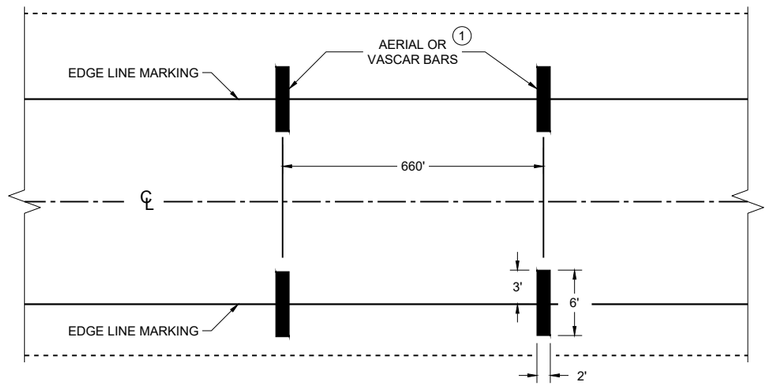
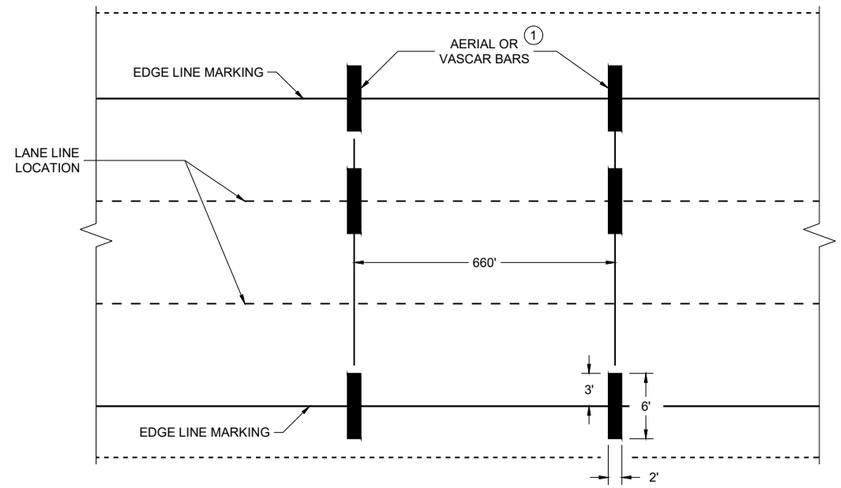
SDD 15C12 - 09a

GENERAL NOTES

(1) PLACE TWO TO FIVE AERIAL OR VASCAR BARS AT 660 FOOT SPACING.



TYPICAL FOR TWO WAY OR ONE WAY TRAFFIC



TYPICAL FOR MULTILANE TRAFFIC

SPEED ENFORCEMENT ZONE WITH AERIAL OR VASCAR BARS

AERIAL ENFORCEMENT BARS PAVEMENT MARKING DETAILS

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
February 2025 — DATE
/S/ Matthew R. Rauch — STATE SIGNING AND MARKING ENGINEER

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SDD 15C14-05

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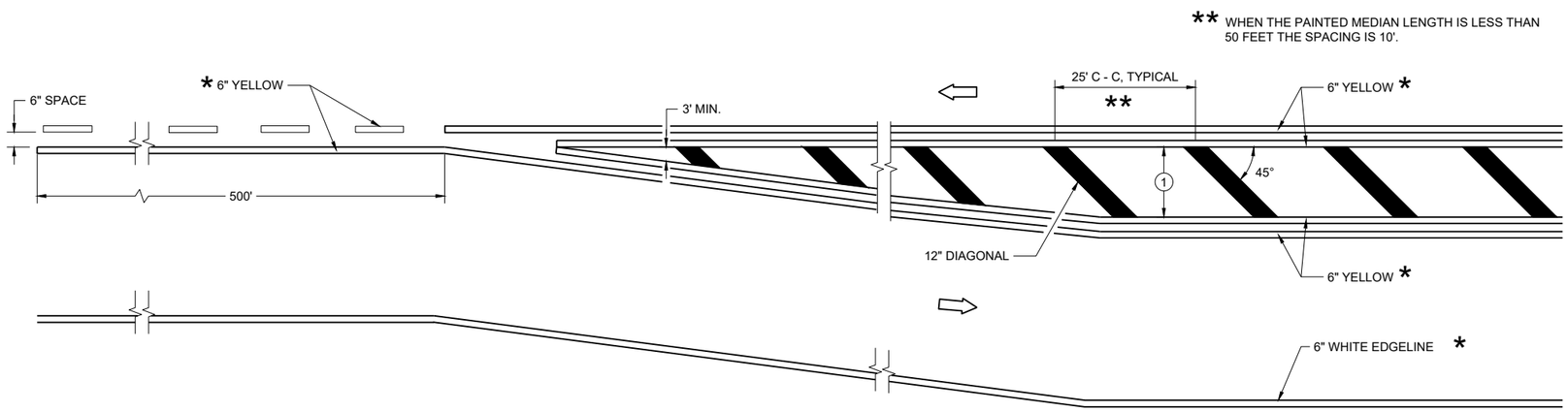
SDD 15C14-05



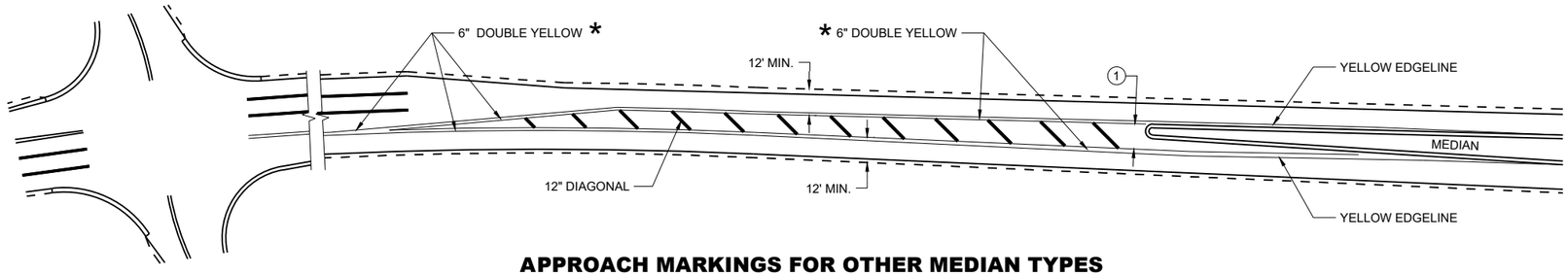
MEDIAN ISLAND DETAIL

GENERAL NOTES

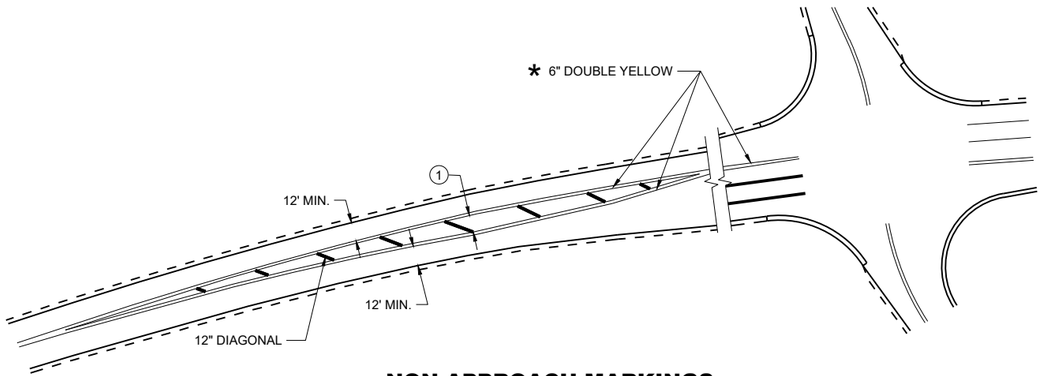
(1) DIAGONALS ARE OPTIONAL WHEN PAINTED ISLAND IS LESS THAN 6 FEET AT THE WIDEST POINT. OMIT DIAGONALS IF WIDTH IS LESS THAN 4 FEET.

DIRECTION OF TRAVEL

*CONFIRM MARKING LINE WIDTH WITH THE MISCELLANEOUS QUANTITIES



APPROACH MARKINGS FOR OTHER MEDIAN TYPES



NON-APPROACH MARKINGS

MEDIAN ISLAND PAVEMENT MARKINGS

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
August 2024
DATE

/S/ Jeannie Silver
Statewide Pavement Marking Engineer

FHWA

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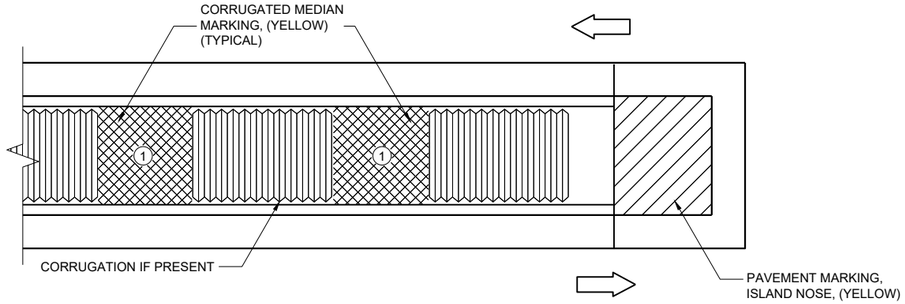
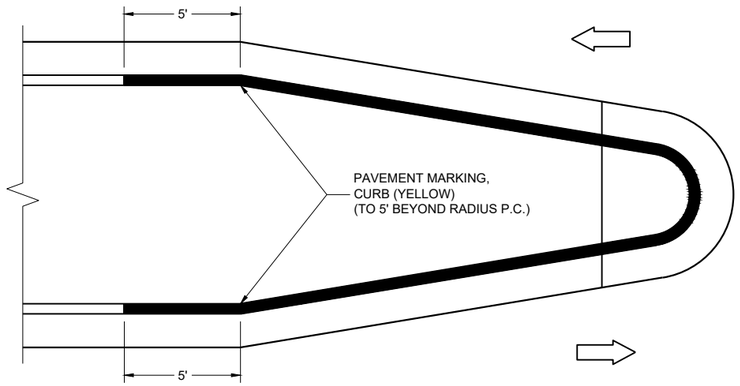
SDD 15C18-09a

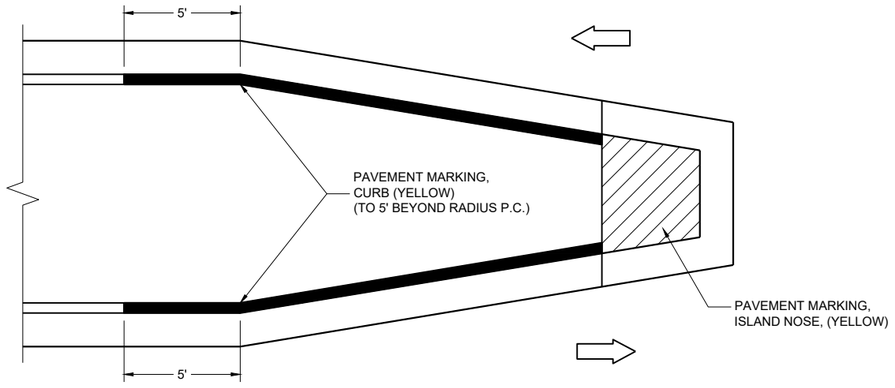
SDD 15C18-09a



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**

GENERAL NOTES

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 ACCEPTED IN ACCORDANCE WITH THE CONTRACT AND PAID FOR AT THE CONTRACT UNIT PRICE PER SQUARE FOOT.

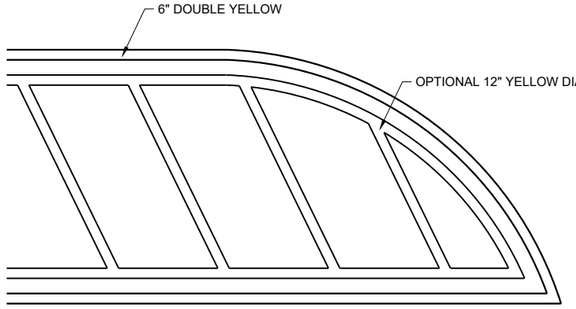
(1) APPLY PAVEMENT MARKING TO THE FLAT PORTION OF CORRUGATED MEDIAN.

ISLAND NOSE MARKING

CURB MARKING

CORRUGATED MEDIAN MARKING

DIRECTION OF TRAVEL



FLUSH MEDIAN ISLAND NOSE

**PAVEMENT MARKINGS,
MEDIAN ISLAND NOSE**

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
August 2024
DATE

/S/ Jeannie Silver
Statewide Pavement Marking Engineer

FHWA

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SDD 15C18-09b

REQUIREMENTS FOR EDGE LINES		
POSTED SPEED	IS THERE CONTINUOUS LIGHTING?	
	YES	NO
≤ 30 MPH	NO	OPTIONAL
35 OR 40 MPH	OPTIONAL	RECOMMENDED
≥ 45 MPH	RECOMMENDED	REQUIRED

GENERAL NOTES

APPLIES TO ISLANDS AT LEFT TURNS AT ONE WAY ROADWAYS AS WELL.

SEE MISCELLANEOUS QUANTITIES FOR SIGN SIZE.

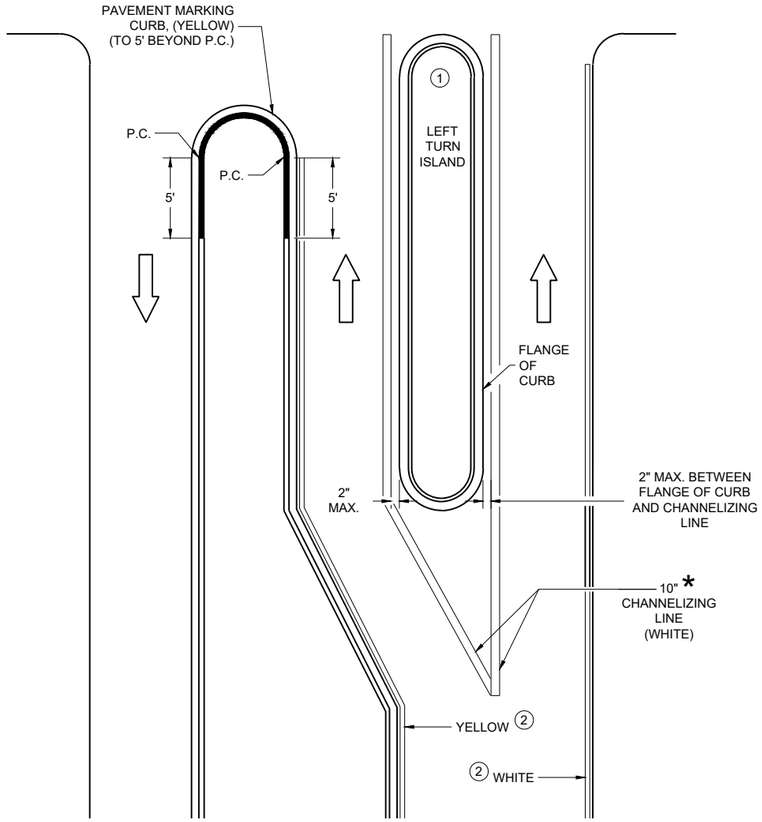
(1) MARK CURB NOSES YELLOW.

(2) MARK ACCORDING TO TABLE.

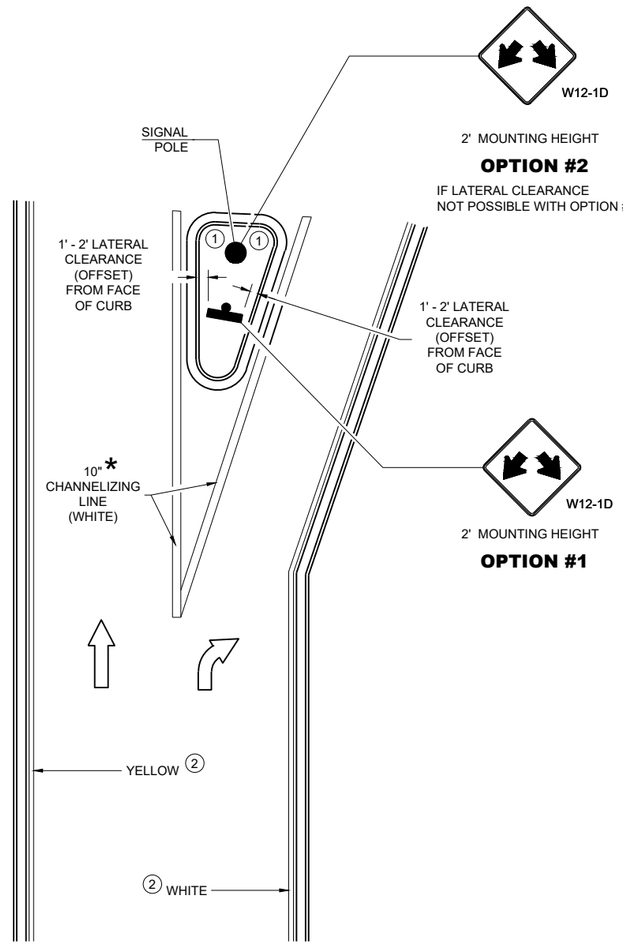
(3) CHEVRON MAY BE OMITTED IF LESS THAN 4" WIDE

DIRECTION OF TRAVEL

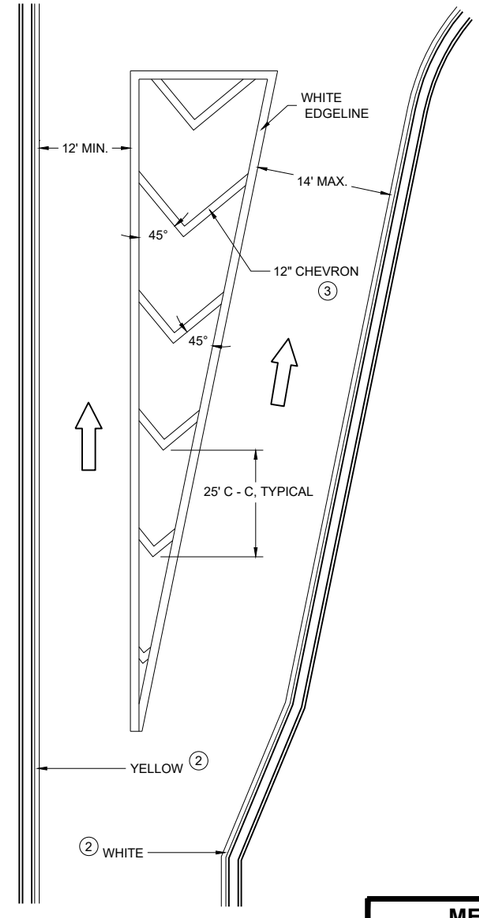
*CONFIRM MARKING LINE WIDTH WITH THE MISCELLANEOUS QUANTITIES



LEFT TURN & MEDIAN ISLAND



RIGHT TURN ISLAND



TURN LANE DETAIL

MEDIAN PAVEMENT MARKINGS, DOUBLE ARROW WARNING SIGN PLACEMENT

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
August 2024
DATE

/S/ Jeannie Silver
Statewide Pavement Marking Engineer

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LEGEND

V1 LEAD VEHICLE

V2 MARKING VEHICLE

V3 SHADOW VEHICLE

TRUCK MOUNTED ATTENUATOR (TMA)

SIGN ON TEMPORARY SUPPORT

DIRECTION OF TRAFFIC

GENERAL NOTES

ALL VEHICLES SHALL BE EQUIPPED WITH TWO 360 DEGREE HIGH INTENSITY YELLOW FLASHING LIGHTS OR STROBE LIGHTS AND OPERATED WITH HEADLIGHTS TURNED ON.

ALL VEHICLES SHALL BE EQUIPPED WITH REAR FACING TYPE B OR C FLASHING ARROW PANEL OPERATING IN CAUTION MODE. SIGNS PLACED ON VEHICLES MUST NOT OBSCURE THE ARROW PANEL.

ALL SIGNS ARE 48" X 48" UNLESS OTHERWISE SPECIFIED.

DISTANCE BETWEEN VEHICLES MAY VARY ACCORDING TO TERRAIN, SIGHT DISTANCE, PAINT DRYING TIME, AND OTHER FACTORS. WHENEVER ADEQUATE STOPPING SIGHT DISTANCE EXISTS TO THE REAR, SHADOW VEHICLES SHOULD MAINTAIN THE MINIMUM DISTANCE FROM THE WORK VEHICLE AND PROCEED AT THE SAME SPEED AS THE WORK VEHICLE. SHADOW VEHICLES SHOULD SLOW DOWN IN ADVANCE OF VERTICAL AND HORIZONTAL CURVES THAT RESTRICT SIGHT DISTANCE.

THE WORK AND SHADOW VEHICLES SHOULD PULL OVER PERIODICALLY TO ALLOW TRAFFIC TO PASS.

WHEN NO WORK ACTIVITY IS TAKING PLACE, REMOVE OR LAY STATIONARY SIGNS AND SUPPORTS FLAT ON THE GRADE WITH

WORKERS SHALL NOT PERFORM WORK FROM ANY SHADOW OR PROTECTION VEHICLES.

UPRIGHTS ORIENTED PARALLEL TO AND DOWNSTREAM FROM TRAFFIC.

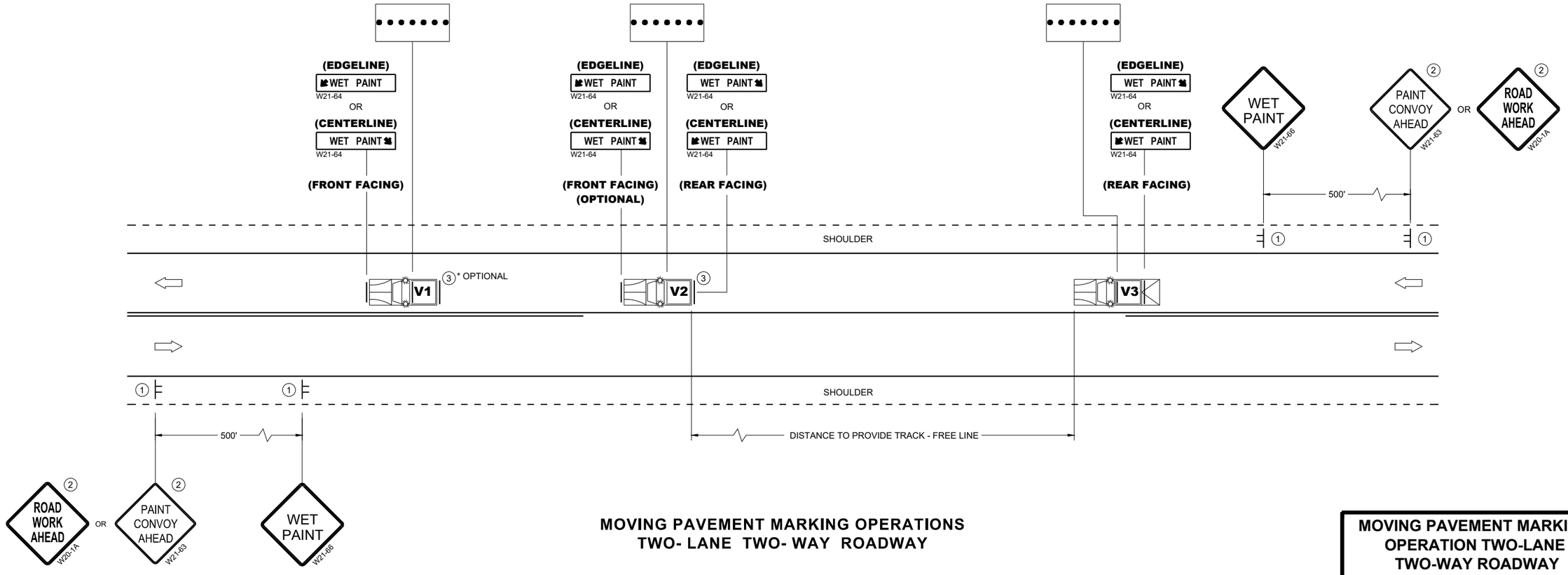
CONES SHOULD BE USED BETWEEN THE MARKING AND SHADOW VEHICLE AT 100 FOOT SPACING. CONES MAY BE OMITTED ON PAINTED LINE IF APPROVED BY THE ENGINEER. CONSIDER PAVEMENT MARKING DRY OR CURE TIMES AND TRAFFIC VOLUME.

CONES SHALL BE A MINIMUM OF 28" FOR WET PAVEMENT MARKING .

(1) SIGNS SHALL BE REPEATED APPROXIMATELY EVERY THREE MILES AND AFTER EVERY MAJOR INTERSECTION.

(2) IF CONSTRUCTION WORK ZONE SIGNS ARE IN PLACE, W20-1A OR W21-63 ARE NOT REQUIRED.

(3) V1 AND V2 CAN BE SWITCHED SO THAT THE MARKER IS THE LEAD VEHICLE.



MOVING PAVEMENT MARKING OPERATIONS
TWO- LANE TWO- WAY ROADWAY

MOVING PAVEMENT MARKING OPERATION TWO-LANE TWO-WAY ROADWAY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
November 2025 — DATE
/S/ Andrew Heidtke — STATE ELECTRICAL ENGINEER

FHWA

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SDD 15C19-11a

SDD 15C19-11a

LEGEND

V1 MARKING VEHICLE

V2 SHADOW VEHICLE

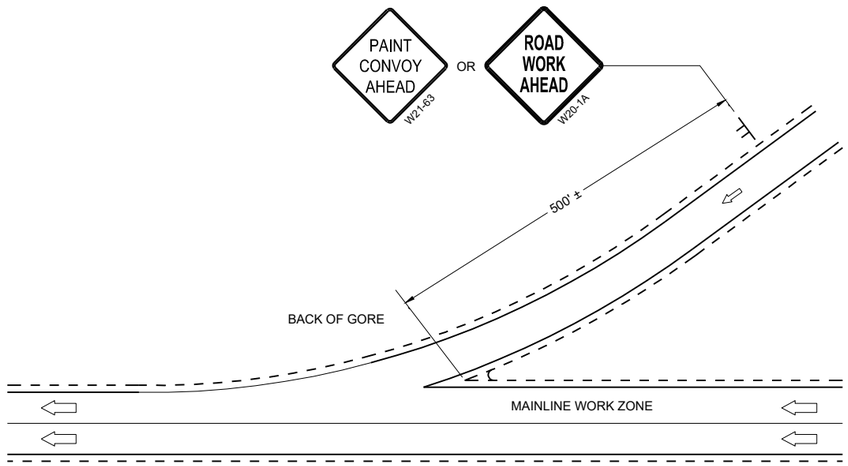
V3 TRAIL VEHICLE

TRUCK MOUNTED ATTENUATOR (TMA)

SIGN ON TEMPORARY SUPPORT

DIRECTION OF TRAFFIC

ARROW PANEL (CAUTION)



GENERAL NOTES

ALL VEHICLES SHALL BE EQUIPPED WITH TWO 360 DEGREE HIGH INTENSITY YELLOW FLASHING LIGHTS OR STROBE LIGHTS AND OPERATED WITH HEADLIGHTS TURNED ON.

ALL VEHICLES SHALL BE EQUIPPED WITH REAR FACING TYPE B OR C FLASHING ARROW PANEL. SIGNS PLACED ON VEHICLES MUST NOT OBSCURE THE ARROW PANEL.

ALL SIGNS ARE 48" X 48" UNLESS OTHERWISE SPECIFIED.

DISTANCE BETWEEN VEHICLES MAY VARY ACCORDING TO TERRAIN, SIGHT DISTANCE, PAINT DRYING TIME, AND OTHER FACTORS. WHENEVER ADEQUATE STOPPING SIGHT DISTANCE EXISTS TO THE REAR, SHADOW VEHICLES SHOULD MAINTAIN THE MINIMUM DISTANCE FROM THE WORK VEHICLE AND PROCEED AT THE SAME SPEED AS THE WORK VEHICLE. SHADOW VEHICLES SHOULD SLOW DOWN IN ADVANCE OF VERTICAL AND HORIZONTAL CURVES THAT RESTRICT SIGHT DISTANCE.

WHEN WORK ACTIVITY BLOCKS THE LEFT LANE, REVERSE TRAFFIC CONTROL.

WHEN A RAMP INTERSECTS THE FACILITY ON WHICH THE WORK IS BEING PERFORMED, PROVIDE ADDITIONAL TRAFFIC CONTROLS AS SPECIFIED IN THE CONTRACT OR AS APPROVED BY THE ENGINEER.

USE AN ATTENUATOR ON THE REARMOST VEHICLE THAT BLOCKS ALL OR PART OF THE TRAFFIC LANE.

IF THE SHOULDER IS TOO NARROW TO ACCOMMODATE THE LAST TRAILING VEHICLE, THE VEHICLE SHOULD STRADDLE THE EDGE LINE.

WHEN NO WORK ACTIVITY IS TAKING PLACE, REMOVE OR LAY STATIONARY SIGNS AND SUPPORTS FLAT ON THE GRADE WITH UPRIGHTS ORIENTED PARALLEL TO AND DOWNSTREAM FROM TRAFFIC

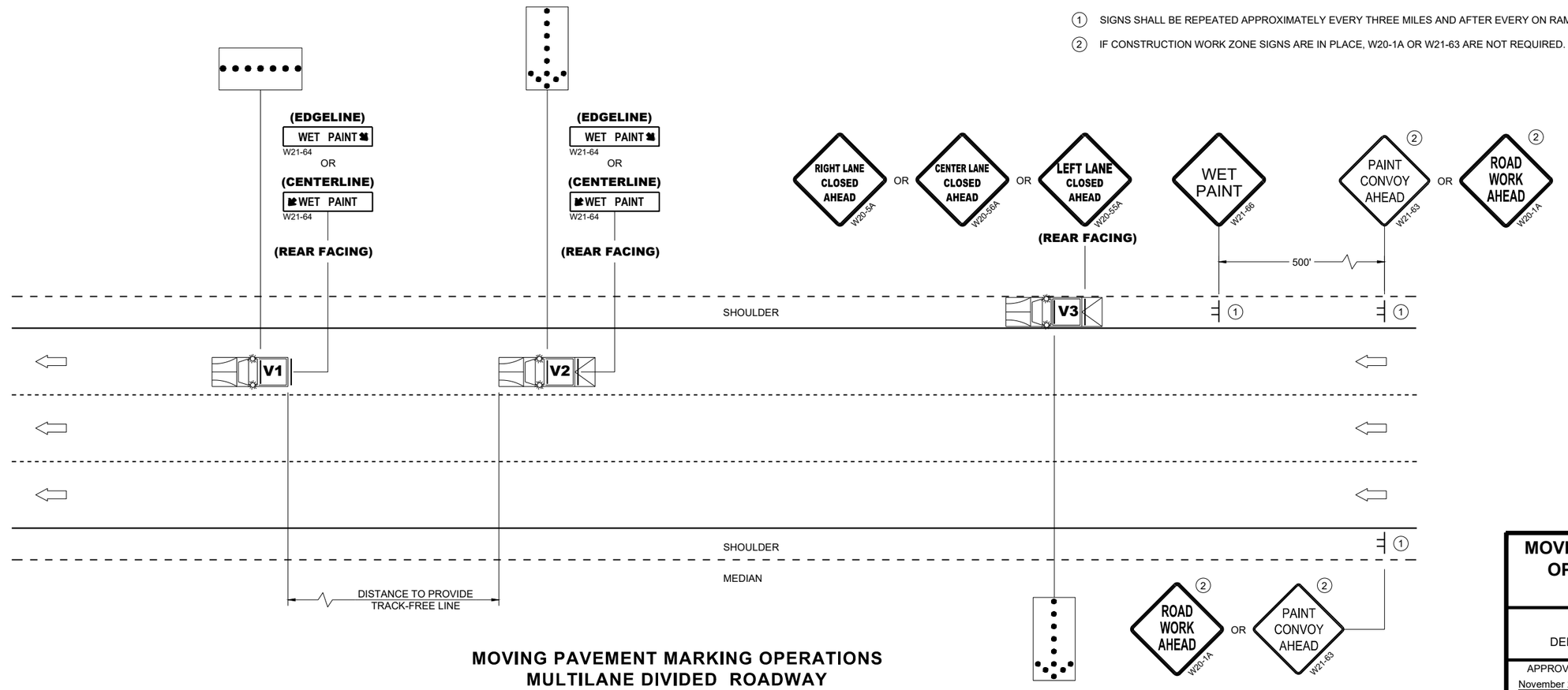
CONES SHOULD BE USED BETWEEN THE MARKING AND SHADOW VEHICLE AT 100 FOOT SPACING. CONES MAY BE OMITTED ON PAINTED LINE IF APPROVED BY THE ENGINEER. CONSIDER PAVEMENT MARKING DRY OR CURE TIMES AND TRAFFIC VOLUME.

CONES SHALL BE A MINIMUM HEIGHT OF 28" FOR WET PAVEMENT MARKINGS

WORKERS SHALL NOT PERFORM WORK FROM ANY SHADOW OR PROTECTION VEHICLES.

(1) SIGNS SHALL BE REPEATED APPROXIMATELY EVERY THREE MILES AND AFTER EVERY ON RAMP.

(2) IF CONSTRUCTION WORK ZONE SIGNS ARE IN PLACE, W20-1A OR W21-63 ARE NOT REQUIRED.



MOVING PAVEMENT MARKING OPERATIONS MULTILANE DIVIDED ROADWAY

MOVING PAVEMENT MARKING OPERATION MULTI-LANE DIVIDED ROADWAY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
November 2025 — DATE
/S/ Andrew Heidtke — STATE ELECTRICAL ENGINEER

FHWA

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SDD 15C19-11c

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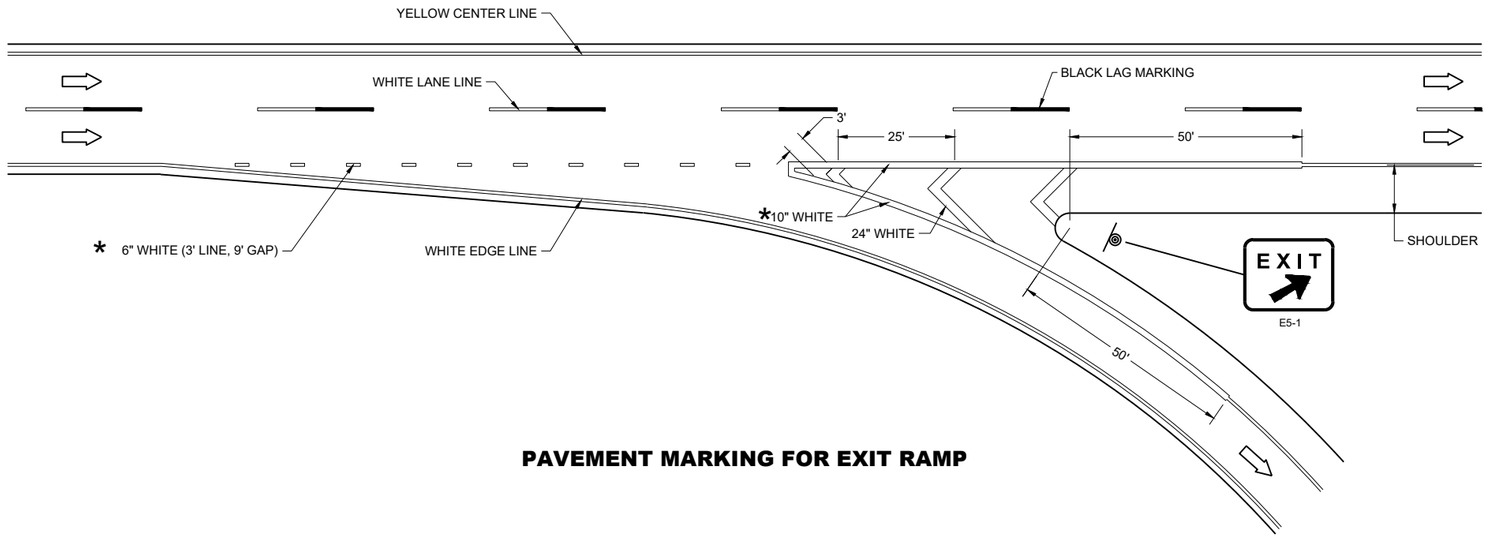
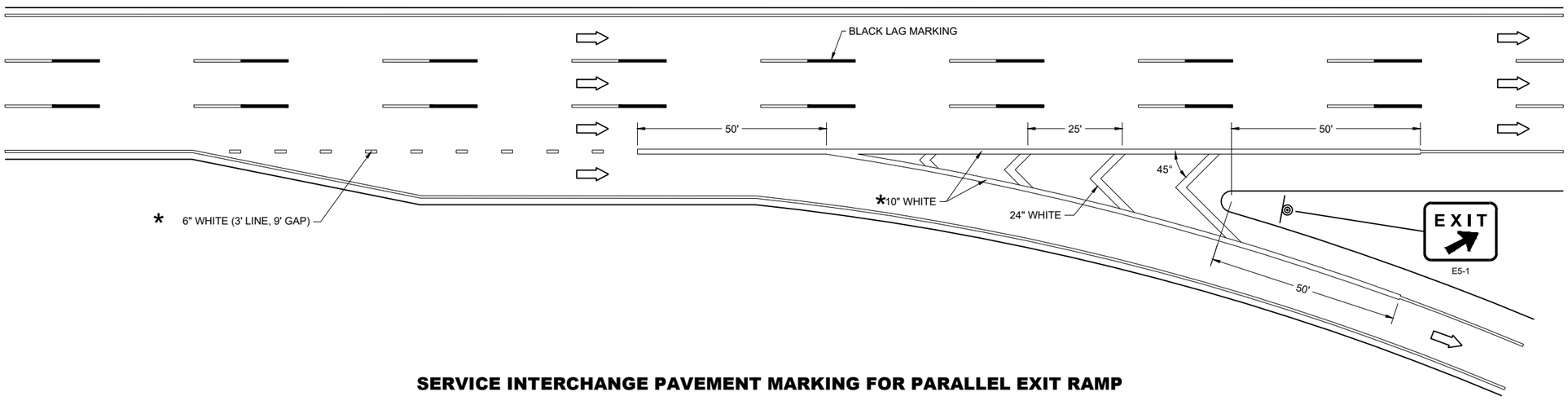
SDD 15C19-11c



PAVEMENT MARKING FOR EXIT RAMP



SERVICE INTERCHANGE PAVEMENT MARKING FOR PARALLEL EXIT RAMP

GENERAL NOTES

PLACE GROOVE 3 INCHES LEFT OF JOINT.

LEGEND

SIGN ON PERMANENT SUPPORT

DIRECTION OF TRAVEL

*CONFIRM MARKING LINE WIDTH WITH THE MISCELLANEOUS QUANTITIES

6

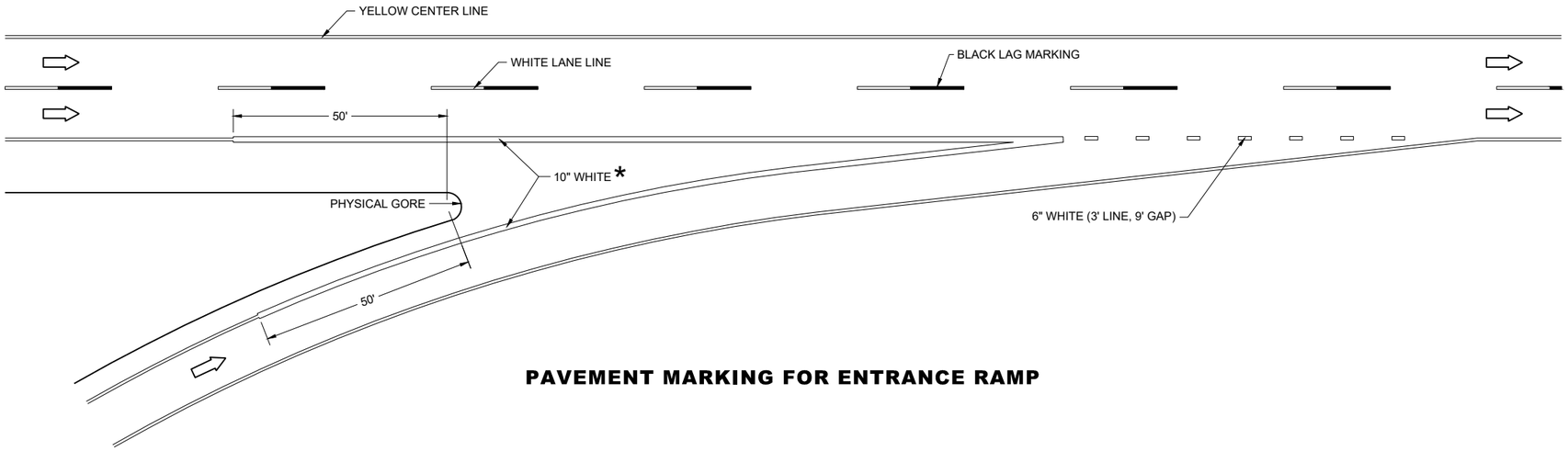
SDD 15C31-08a

PAVEMENT MARKING, EXIT RAMP AND PARALLEL EXIT RAMP

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

GENERAL NOTES

PLACE GROOVE 3 INCHES LEFT OF JOINT.

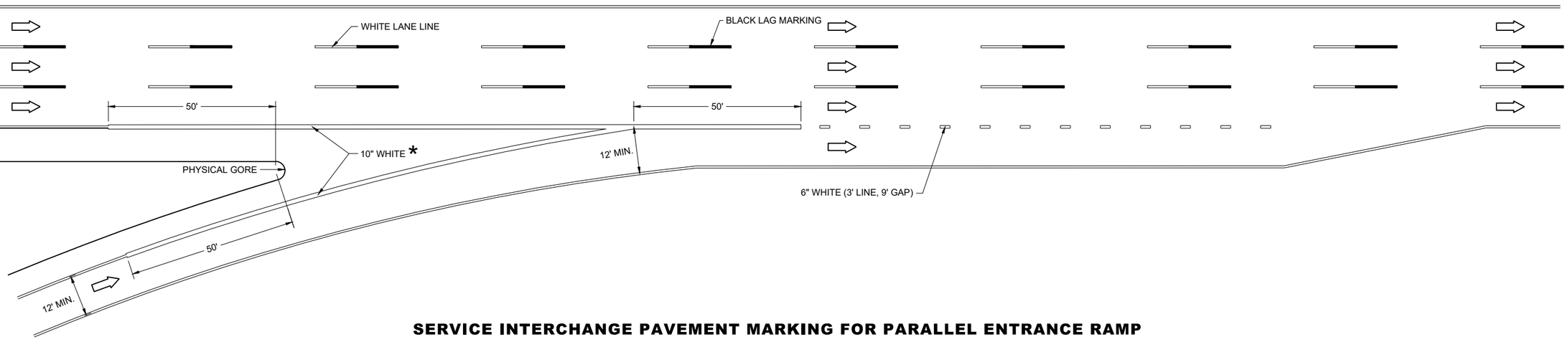


PAVEMENT MARKING FOR ENTRANCE RAMP

LEGEND

DIRECTION OF TRAVEL

*CONFIRM MARKING LINE WIDTH WITH THE MISCELLANEOUS QUANTITIES



SERVICE INTERCHANGE PAVEMENT MARKING FOR PARALLEL ENTRANCE RAMP

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SDD 15C31-08c

SDD 15C31-08c

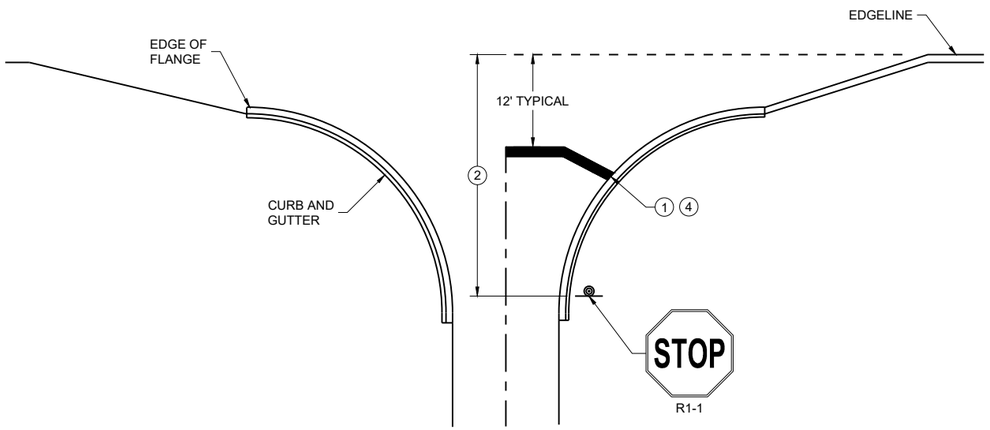
PAVEMENT MARKING, ENTRANCE RAMP AND PARALLEL ENTRANCE RAMP

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

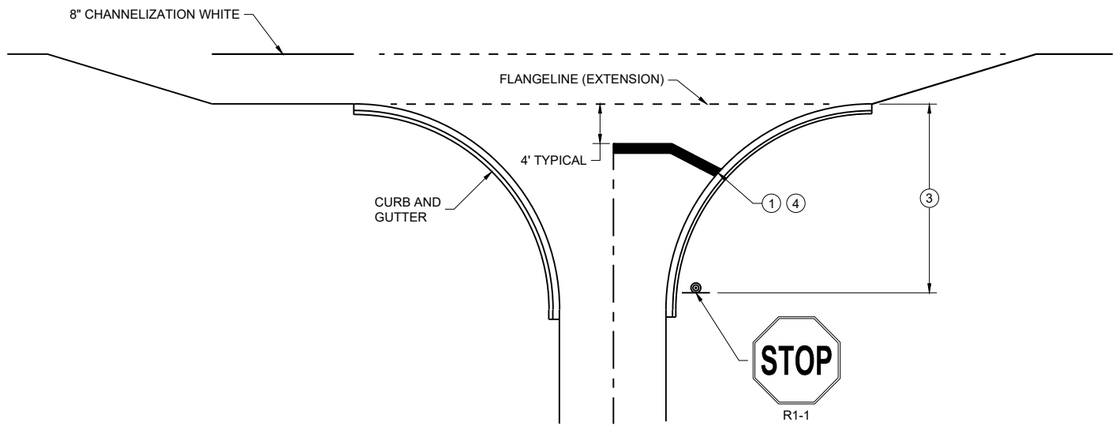
GENERAL NOTES

STOP SIGN SHALL BE PLACED A MINIMUM OF 6 FEET TO A MAXIMUM OF 50 FEET FROM THE EDGELINE LOCATION.

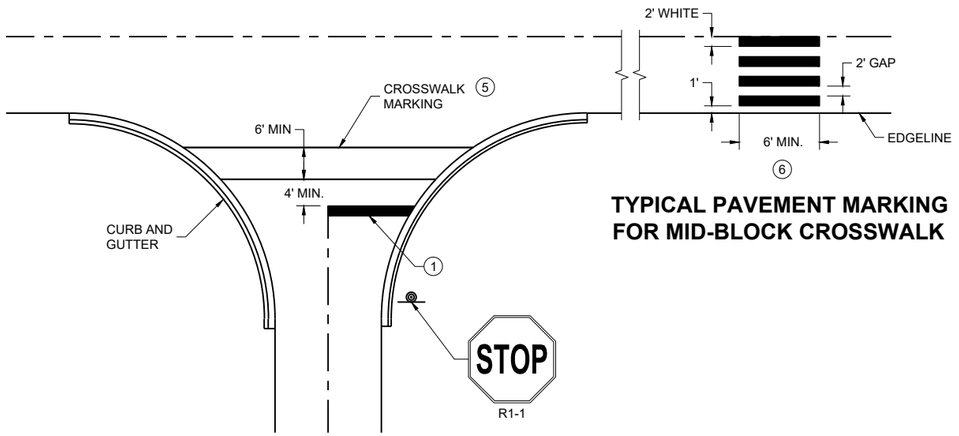
1. 18-INCH STOP LINES MAY BE DELETED OR ADDED BY THE REGION MARKING ENGINEER BASED ON VISIBILITY AND SIGHT LINES.
2. NO STOP LINE IS REQUIRED IF STOP SIGN IS LESS THAN OR EQUAL TO 40 FEET FROM THE EDGELINE.
3. NO STOP LINE IS REQUIRED IF STOP SIGN IS LESS THAN OR EQUAL TO 30 FEET FROM THE FLANGE LINE EXTENSION.
4. MOVE CLOSER TO THE EDGE OF TRAVEL LINE AS NEEDED FOR VISIBILITY AND SIGHT LINES (NO CLOSER THAN 4 FEET).
5. LADDER BAR CROSSWALKS SHOULD ONLY BE USED FOR MID BLOCK CROSSINGS. USE 2 - 6" TRANSVERSE LINES.
6. POSTED SPEED LIMITS OF 40 MPH OR GREATER USE A MINIMUM WIDTH OF 8' FOR MIDBLOCK CROSSWALKS



TYPICAL STOP LINE PAVEMENT MARKING WITH CURB AND GUTTER

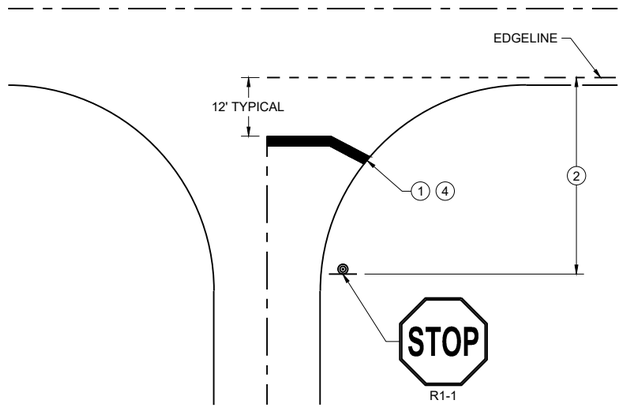


TYPICAL STOP LINE PAVEMENT MARKING FOR SIDE ROADS WITH RIGHT TURN LANE



TYPICAL PAVEMENT MARKING FOR MID-BLOCK CROSSWALK 5

TYPICAL STOP LINE PAVEMENT MARKING FOR SIDE ROADS WITH CROSSWALK MARKING



TYPICAL STOP LINE PAVEMENT MARKING WITHOUT CURB AND GUTTER

STOP LINE AND CROSSWALK PAVEMENT MARKING

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED

March 2024 — DATE

/S/ Matthew Rauch — STATE SIGNING AND MARKING ENGINEER

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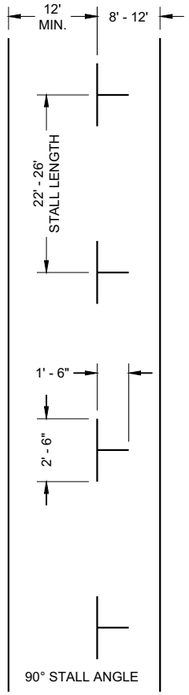
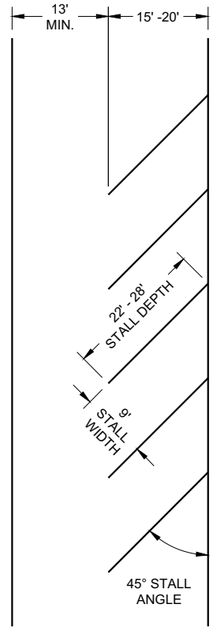
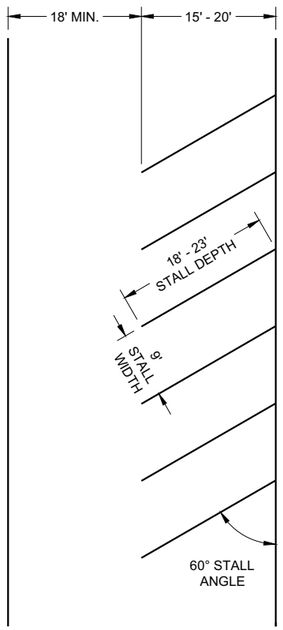


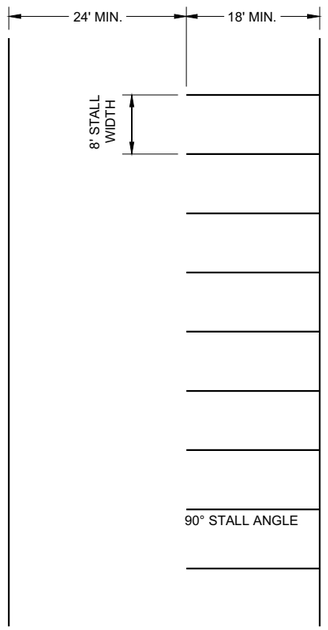
PARALLEL PARKING





ANGLED PARKING

(ANGLED PARKING IS NOT ALLOWED ON STATE HIGHWAYS UNLESS A DESIGN JUSTIFICATION HAS BEEN COMPLETED.)



PARKING LOTS

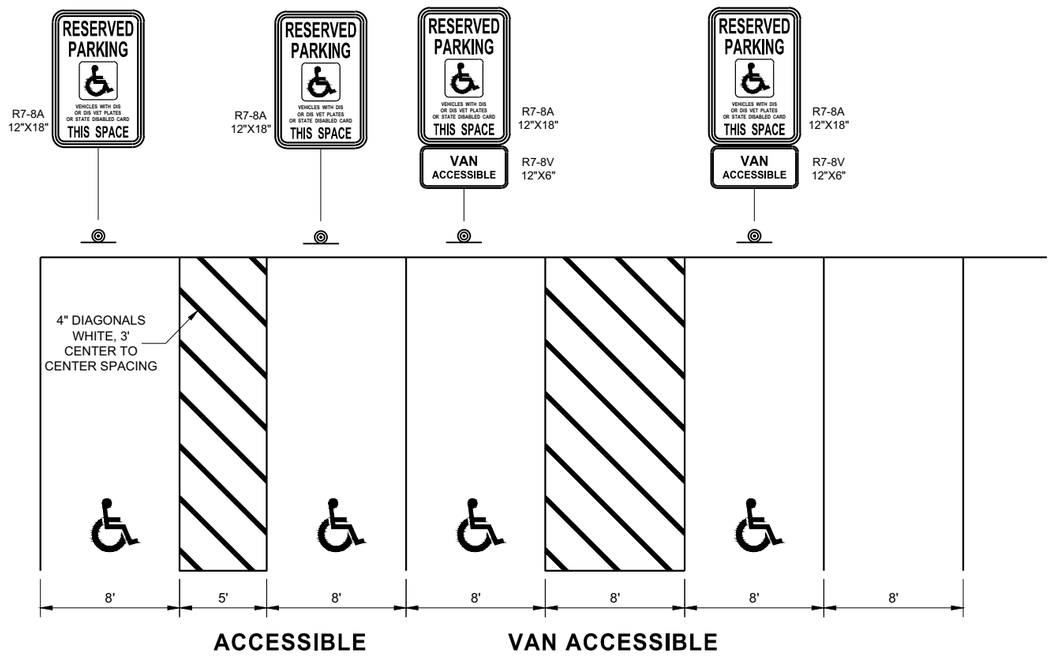
GENERAL NOTES

ALL LINES 4" WHITE (UNLESS OTHERWISE NOTED)

LAST PARKING STALL IS A MINIMUM OF 15' FROM THE CROSSWALK.

LEGEND

SIGN ON PERMANENT SUPPORT



PARKING STALL MARKING

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
August 2019 — DATE
/S/ Matthew Rauch — STATE SIGNING AND MAF ENGINEER

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SDD 15C36 - 01
SDD 15C36 - 01

GENERAL NOTES

THE EXACT NUMBER, LOCATION, AND SPACING OF ALL SIGNS AND DEVICES SHALL BE ADJUSTED TO FIT FIELD CONDITIONS AS APPROVED BY THE ENGINEER.

THE SPACING BETWEEN SIGNS SHOULD BE ADJUSTED TO NOT CONFLICT WITH AND TO PROVIDE A MINIMUM OF 200 FEET (500 FEET DESIRABLE) CLEARANCE TO EXISTING SIGNS.

THIS LANE CLOSURE IS TYPICAL FOR CLOSING RIGHT LANE - REVERSE FOR CLOSING LEFT LANE.

ALL SIGNS ARE 48" x 48" UNLESS OTHERWISE NOTED.

"WO" IS THE SAME AS "W" EXCEPT THE BACKGROUND IS ORANGE.

ANY SIGNS TEMPORARY OR EXISTING, WHICH CONFLICT WITH TRAFFIC CONTROL "IN USE" SHALL BE REMOVED OR COVERED AS NEEDED OR AS APPROVED BY THE ENGINEER.

FOR A LANE CLOSURE THAT IS IN PLACE LESS THAN 7 CONTINUOUS DAYS AND NIGHTS, THE ADVANCED WARNING SIGNS MAY BE MOUNTED ON PORTABLE SUPPORTS.

REMOVE PAVEMENT MARKINGS AND PLACE TEMPORARY PAVEMENT MARKING LINE IF LANE CLOSURE IS TO BE IN PLACE 4 OR MORE CONTINUOUS DAYS AND NIGHTS.

IF THE HORIZONTAL ALIGNMENT IS SUCH THAT A CURVE MAY REQUIRE ADDITIONAL DELINEATION, THE DEVICE SPACING MAY BE DECREASED TO 50 FEET.

WARNING LIGHTS ARE NOT REQUIRED IF THE LANE CLOSURE IS A DAYTIME ONLY OPERATION.

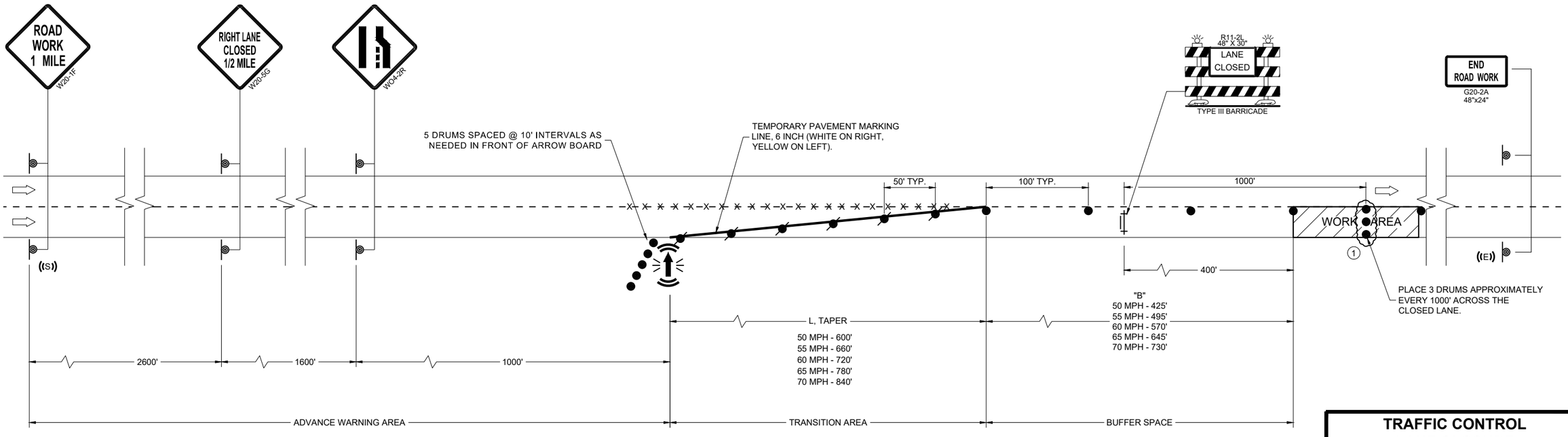
ADJUSTMENTS IN BUFFER SPACE NEED TO BE INCORPORATED WHEN THE LANE CLOSURE OCCURS NEAR AN INTERCHANGE EXIT OR ENTRANCE RAMP OR INTERSECTION. THE LANE CLOSURE MUST TAKE PLACE FAR ENOUGH IN ADVANCE OF AN EXIT OR ENTRANCE RAMP TO STILL ALLOW FOR ADEQUATE BUFFER SPACE. THE MINIMUM LENGTH OF THE BUFFER SPACE BEFORE AN EXIT RAMP SHOULD BE ONE HALF THE LENGTH OF THE TRANSITION AREA. THE ENTRANCE RAMP SHOULD BE FOLLOWED BY THE ORIGINAL BUFFER SPACE LENGTH OF 800 FEET DESIRABLE PRIOR TO ANOTHER TRAFFIC CONTROL CHANGE SUCH AS A CROSSOVER MANEUVER.

CONSIDER ROADWAY GEOMETRICS WHEN LOCATING SIGNS AND ARROW BOARD SO THE DRIVER HAS A CLEAR VIEW OF THE ARROW BOARD AND LANE CLOSURE DRUMS.

(1) DRUMS IN A CLOSED LANE THAT MUST BE MOVED FOR A WORK OPERATION SHALL BE IMMEDIATELY REESTABLISHED UPON COMPLETION OF THE OPERATION, OR FOR CONTINUING OPERATIONS, AT THE END OF EACH WORKING DAY.

LEGEND

- SIGN ON PERMANENT SUPPORT
- TRAFFIC CONTROL DRUM
- TRAFFIC CONTROL DRUM WITH TYPE "C" STEADY BURN LIGHT
- TYPE III BARRICADE WITH ATTACHED SIGN
- TYPE "A" WARNING LIGHT (FLASHING)
- REMOVING PAVEMENT MARKINGS
- DIRECTION OF TRAFFIC
- WORK AREA
- CONNECTED ARROW BOARD
- (S) WZ START LOCATION MARKER
- (E) WZ END LOCATION MARKER



TRAFFIC CONTROL LANE CLOSURE

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
November 2025 — DATE
/S/ Andrew Heidtke — ROADWAY STANDARDS DEVELOPMENT UNIT SUPERVISOR

FHWA

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SDD 15D12-16a

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SDD 15D12-16a

LEGEND

- SIGN ON PERMANENT SUPPORT
- TRAFFIC CONTROL DRUM
- TRAFFIC CONTROL DRUM WITH TYPE "C" STEADY BURN LIGHT
- TYPE III BARRICADE WITH ATTACHED SIGN
- TYPE "A" WARNING LIGHT (FLASHING)
- REMOVING PAVEMENT MARKINGS
- DIRECTION OF TRAFFIC
- WORK AREA
- CONNECTED ARROW BOARD
- PCMS — PORTABLE CHANGEABLE MESSAGE SIGN
- (S) — PORTABLE TRAFFIC SENSOR (PTS)
- ((S)) WZ START LOCATION MARKER
- ((E)) WZ END LOCATION MARKER

GENERAL NOTES

THE EXACT NUMBER, LOCATION, AND SPACING OF ALL SIGNS, INCLUDING FBS AND DEVICES SHALL BE ADJUSTED TO FIT FIELD CONDITIONS AS APPROVED BY THE ENGINEER.

THE SPACING BETWEEN SIGNS SHOULD BE ADJUSTED TO NOT CONFLICT WITH AND TO PROVIDE A MINIMUM OF 200 FEET (500 FEET DESIRABLE) CLEARANCE TO EXISTING SIGNS.

THIS LANE CLOSURE IS TYPICAL FOR CLOSING RIGHT LANE - REVERSE FOR CLOSING LEFT LANE.

ALL SIGNS ARE 48" x 48" UNLESS OTHERWISE NOTED.

"WO" SIGNS ARE THE SAME AS "W" SIGNS EXCEPT THE BACKGROUND IS ORANGE.

ANY SIGNS TEMPORARY OR EXISTING, WHICH CONFLICT WITH TRAFFIC CONTROL "IN USE" SHALL BE REMOVED OR COVERED AS NEEDED OR AS APPROVED BY THE ENGINEER. NO WARNING LIGHTS SHALL BE WORKING ON "COVERED" OR "DOWNED SIGNS.

FOR A LANE CLOSURE THAT IS IN PLACE LESS THAN 7 CONTINUOUS DAYS AND NIGHTS, THE ADVANCED WARNING SIGNS MAY BE MOUNTED ON PORTABLE SUPPORTS.

REMOVE PAVEMENT MARKINGS AND PLACE TEMPORARY PAVEMENT MARKING LINE IF LANE CLOSURE IS TO BE IN PLACE 4 OR MORE CONTINUOUS DAYS AND NIGHTS.

WARNING LIGHTS ARE NOT REQUIRED IF THE LANE CLOSURE IS A DAYTIME ONLY OPERATION.

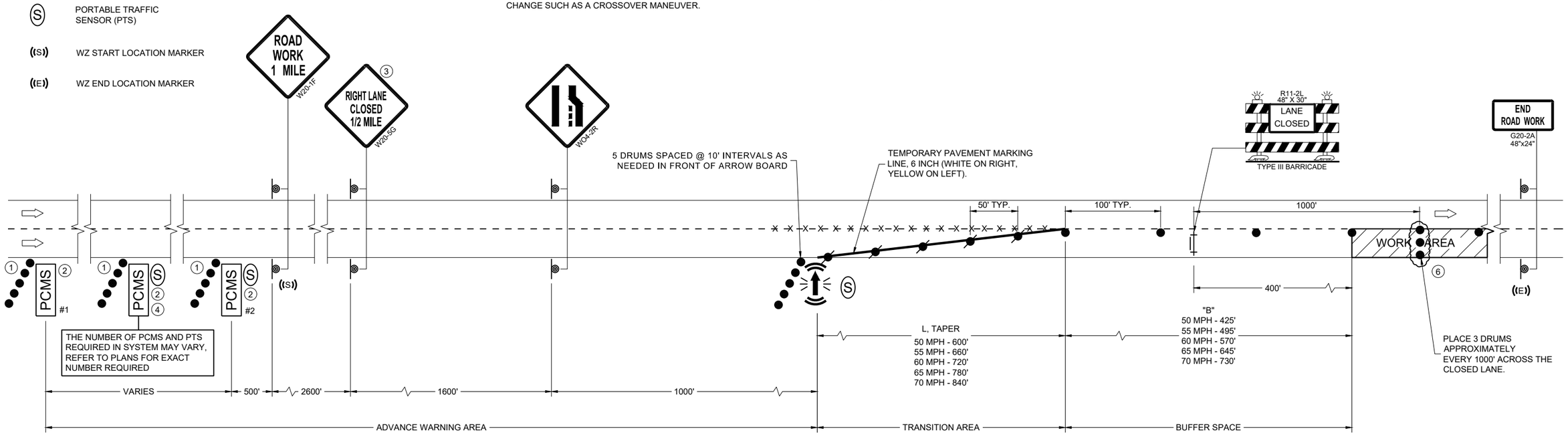
IF THE HORIZONTAL ALIGNMENT IS SUCH THAT A CURVE MAY REQUIRE ADDITIONAL DELINEATION, THE DEVICE SPACING MAY BE DECREASED TO 50 FEET.

ADJUSTMENTS IN BUFFER SPACE NEED TO BE INCORPORATED WHEN THE LANE CLOSURE OCCURS NEAR AN INTERCHANGE EXIT OR ENTRANCE RAMP OR INTERSECTION. THE LANE CLOSURE MUST TAKE PLACE FAR ENOUGH IN ADVANCE OF AN EXIT OR ENTRANCE RAMP TO STILL ALLOW FOR ADEQUATE BUFFER SPACE. THE MINIMUM LENGTH OF THE BUFFER SPACE BEFORE AN EXIT RAMP SHOULD BE ONE HALF THE LENGTH OF THE TRANSITION AREA. THE ENTRANCE RAMP SHOULD BE FOLLOWED BY THE ORIGINAL BUFFER SPACE LENGTH OF 800 FEET DESIRABLE PRIOR TO ANOTHER TRAFFIC CONTROL CHANGE SUCH AS A CROSSOVER MANEUVER.

CONSIDER ROADWAY GEOMETRICS WHEN LOCATING SIGNS AND ARROW BOARD SO THE DRIVER HAS A CLEAR VIEW OF THE ARROW BOARD AND LANE CLOSURE DRUMS.

PORTABLE TRAFFIC SENSOR (PTS) MAY BE MOUNTED ON PCMS, ARROW BOARD OR OTHER TRAILER DEVICES.

1. 5 DRUMS SPACED AT 10 FOOT INTERVALS AS NEEDED.
2. IF THERE ARE MORE THAN TWO LANES OR IF SPECIFIED IN THE PLANS, PLACE PCMS ON BOTH SIDES OF THE ROADWAY.
3. IF THERE IS AN APPROVED TEMPORARY SPEED DECLARATION, ADD WO-3-5 SIGNS 400 FEET AFTER THE W20-5G SIGNS AND ADD R2-1 SIGNS (48"x60") 700 FEET AFTER THE WO3-5 SIGNS. A SPEED LIMIT SIGN SHALL BE LOCATED 1500 FEET BEYOND THE END OF THE ACCELERATION LANE OF EACH ENTRANCE RAMP. PLACE A SPEED LIMIT SIGN A MINIMUM OF EVERY 3 MILES. INCLUDE A "RESUME SPEED LIMIT" SIGN 200 FEET MINIMUM (800 FEET DESIRABLE) BEYOND THE G30-3A "END ROAD WORK" SIGN.
4. PLACE PCMS EVERY ONE MILE BETWEEN PCMS #1 AND PCMS #2, OR AS THE ENGINEER DIRECTS. THE NUMBER OF PCMS MAY BE MORE THAN SHOWN ON THIS DETAIL.
5. PCMS SHALL FOLLOW ARROW BOARD STANDARDS WHEN DISPLAYING FLASHING FOUR CORNER CAUTION MODE OR ARROW MERGE MODE.
6. DRUMS IN A CLOSED LANE THAT MUST BE MOVED FOR A WORK OPERATION SHALL BE IMMEDIATELY REESTABLISHED UPON COMPLETION OF THE OPERATION, OR FOR CONTINUING OPERATIONS, AT THE END OF EACH WORKING DAY.



⑤ PCMS MESSAGING

SPEEDS 0 MPH TO 19 MPH		SPEEDS 20 MPH TO 39 MPH		SPEEDS 40 MPH AND GREATER
FRAME 1	FRAME 2	FRAME 1	FRAME 2	
STOPPED TRAFFIC AHEAD	EXPECT DELAYS	SLOW TRAFFIC AHEAD	PREPARE TO STOP	(FLASHING CAUTION MODE)

TRAFFIC CONTROL, LANE CLOSURE, TRAFFIC QUEUE WARNING SYSTEM

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
November 2025 — DATE
/S/ Erin Schwark — ROADWAY STANDARDS DEVELOPMENT UNIT SUPERVISOR

FHWA

6

SDD 15D12-16e

GENERAL NOTES

THE EXACT NUMBER, LOCATION, AND SPACING OF ALL SIGNS AND DEVICES SHALL BE ADJUSTED TO FIT FIELD CONDITIONS AS APPROVED BY THE ENGINEER.

THE SPACING BETWEEN SIGNS SHOULD BE ADJUSTED TO NOT CONFLICT WITH AND TO PROVIDE A MINIMUM OF 200 FEET (500 FEET DESIRABLE) CLEARANCE TO EXISTING SIGNS.

THIS LANE CLOSURE IS TYPICAL FOR CLOSING RIGHT LANE - REVERSE FOR CLOSING LEFT LANE.

ALL SIGNS ARE 48" x 48" UNLESS OTHERWISE NOTED.

"WO" SIGNS ARE THE SAME AS "W" SIGNS EXCEPT THE BACKGROUND IS ORANGE.

ANY SIGNS TEMPORARY OR EXISTING, WHICH CONFLICT WITH TRAFFIC CONTROL "IN USE" SHALL BE REMOVED OR COVERED AS NEEDED OR AS APPROVED BY THE ENGINEER.

CONSIDER ROADWAY GEOMETRICS WHEN LOCATING SIGNS AND ARROW BOARD SO THE DRIVER HAS A CLEAR VIEW OF THE ARROW BOARD AND LANE CLOSURE DRUMS.

FOR A LANE CLOSURE THAT IS IN PLACE LESS THAN 7 CONTINUOUS DAYS AND NIGHTS, THE ADVANCED WARNING SIGNS MAY BE MOUNTED ON PORTABLE SUPPORTS.

REMOVE PAVEMENT MARKINGS AND PLACE TEMPORARY PAVEMENT MARKING LINE IF LANE CLOSURE IS TO BE IN PLACE 4 OR MORE CONTINUOUS DAYS AND NIGHTS.

WARNING LIGHTS ARE NOT REQUIRED IF THE LANE CLOSURE IS A DAYTIME ONLY OPERATION.

IF THE HORIZONTAL ALIGNMENT IS SUCH THAT A CURVE MAY REQUIRE ADDITIONAL DELINEATION, THE DEVICE SPACING MAY BE DECREASED TO 50 FEET.

ADJUSTMENTS IN BUFFER SPACE NEED TO BE INCORPORATED WHEN THE LANE CLOSURE OCCURS NEAR AN INTERCHANGE EXIT OR ENTRANCE RAMP OR INTERSECTION. THE LANE CLOSURE MUST TAKE PLACE FAR ENOUGH IN ADVANCE OF AN EXIT OR ENTRANCE RAMP TO STILL ALLOW FOR ADEQUATE BUFFER SPACE. THE MINIMUM LENGTH OF THE BUFFER SPACE BEFORE AN EXIT RAMP SHOULD BE ONE HALF THE LENGTH OF THE TRANSITION AREA. THE ENTRANCE RAMP SHOULD BE FOLLOWED BY THE ORIGINAL BUFFER SPACE LENGTH OF 800 FEET DESIRABLE PRIOR TO ANOTHER TRAFFIC CONTROL CHANGE SUCH AS A CROSSOVER MANEUVER.

IF THE SPEED LIMIT WILL CHANGE BASED ON THE PRESENCE OF WORKERS, USE THE TAPER LENGTH THAT MATCHES THE HIGHER OF THE TWO SPEEDS FOR A CONTINUOUS LANE CLOSURE.

EXISTING POST MOUNTED SPEED LIMIT SIGNS SHOULD BE COVERED OR REMOVED.

(1) POST NON-CONSTRUCTION SPEED LIMIT.

(2) IF THE LANE CLOSURE MOVES DOWNSTREAM, LEAVE DSLT IN PLACE.

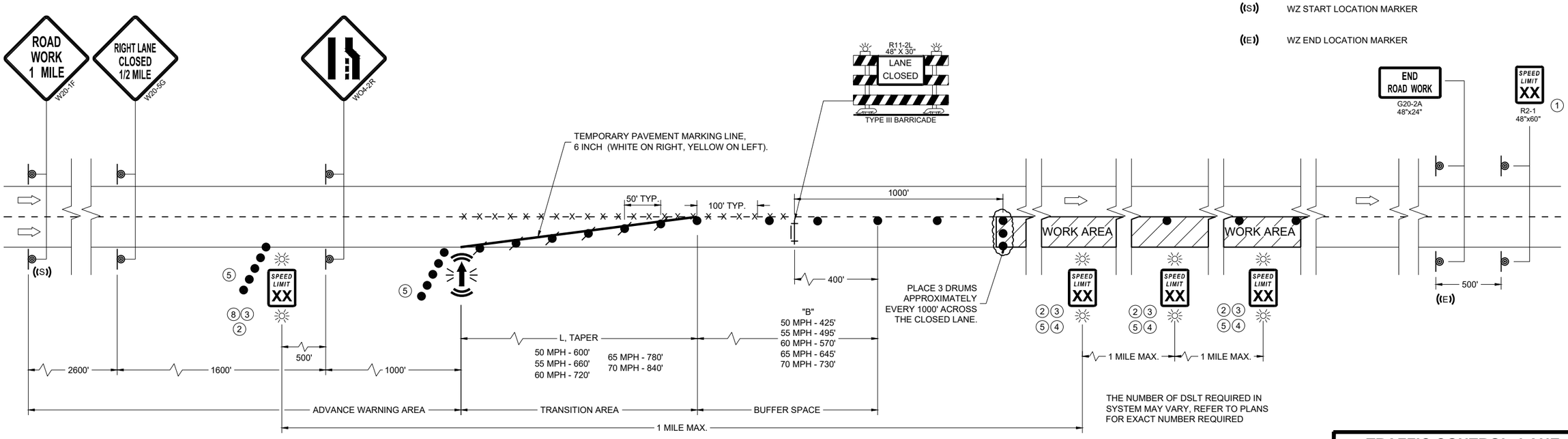
(3) PLACE DSLT AT EXISTING POST MOUNTED SPEED LIMIT SIGN AFTER THE END OF THE ACCELERATION LANE OF EACH ENTRANCE RAMP. IF THERE IS NOT AN EXISTING SIGN, PLACE 1,500 FEET BEYOND THE END OF THE ACCELERATION LANE OF EACH ENTRANCE RAMP

(4) FOR LEFT LANE CLOSURES, DSLT REMAINS ON RIGHT SHOULDER.

(5) 5 DRUMS SPACED @ 10' INTERVALS AS NEEDED.

LEGEND

- SIGN ON PERMANENT SUPPORT
- TRAFFIC CONTROL DRUM
- TRAFFIC CONTROL DRUM WITH TYPE "C" STEADY BURN LIGHT
- TYPE III BARRICADE WITH ATTACHED SIGN
- TYPE "A" WARNING LIGHT (FLASHING)
- REMOVING PAVEMENT MARKINGS
- DIRECTION OF TRAFFIC
- WORK AREA
- CONNECTED ARROW BOARD
- DIGITAL SPEED LIMIT TRAILER (DSLT)
- WZ START LOCATION MARKER
- WZ END LOCATION MARKER



TRAFFIC CONTROL, LANE CLOSURE, DIGITAL SPEED REDUCTION SYSTEM

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
November 2025 — DATE
/S/ Andrew Heidtke — ROADWAY STANDARDS DEVELOPMENT UNIT SUPERVISOR

FHWA

6 SDD 15D12-16g

LEGEND

SIGN ON PERMANENT SUPPORT

SIGN ON TEMPORARY SUPPORT

TRAFFIC CONTROL DRUM

TRAFFIC CONTROL DRUM WITH TYPE "C" STEADY BURN LIGHT

REMOVING PAVEMENT MARKING (SEE GENERAL NOTES)

TYPE III BARRICADE WITH ATTACHED SIGN

DIRECTION OF TRAFFIC

GENERAL NOTES

THE INSTALLATIONS SHOWN ON THIS SHEET ARE TYPICAL EXAMPLES AND ARE NOT INTENDED TO REPRESENT ANY PARTICULAR RAMP. AT SPECIFIC FIELD LOCATIONS, SIMILAR INSTALLATIONS SHALL BE USED AND ADJUSTED TO THE GEOMETRICS OF THE RAMP AS COORDINATED WITH THE ENGINEER.

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.

"WO" IS THE SAME AS "W" EXCEPT THE BACKGROUND IS ORANGE.

SEE SEPARATE LANE CLOSURE DETAIL FOR TYPICAL SPACING OF TYPE III BARRICADES AND R11-2L "LANE CLOSED" SIGNS.

SIGNS THAT WILL BE IN PLACE LESS THAN 7 CONSECUTIVE DAYS AND NIGHTS OR THAT WILL BE PLACED IN A CLOSED LANE, MAY BE MOUNTED ON PORTABLE SUPPORTS. USE SUPPORTS THAT PROVIDE A MINIMUM OF 5 FEET FROM THE BOTTOM OF THE SIGN TO THE PAVEMENT.

IF INDICATED IN MISCELLANEOUS QUANTITIES, SUBSTITUTE FLEXIBLE TUBULAR MARKERS FOR DRUMS IN THE GORE BETWEEN THE ENTRANCE RAMP AND MAINLINE TRAFFIC.

ANY SIGNS TEMPORARY OR EXISTING, WHICH CONFLICT WITH TRAFFIC CONTROL "IN USE" SHALL BE REMOVED OR COVERED AS NEEDED AND AS APPROVED BY THE ENGINEER.

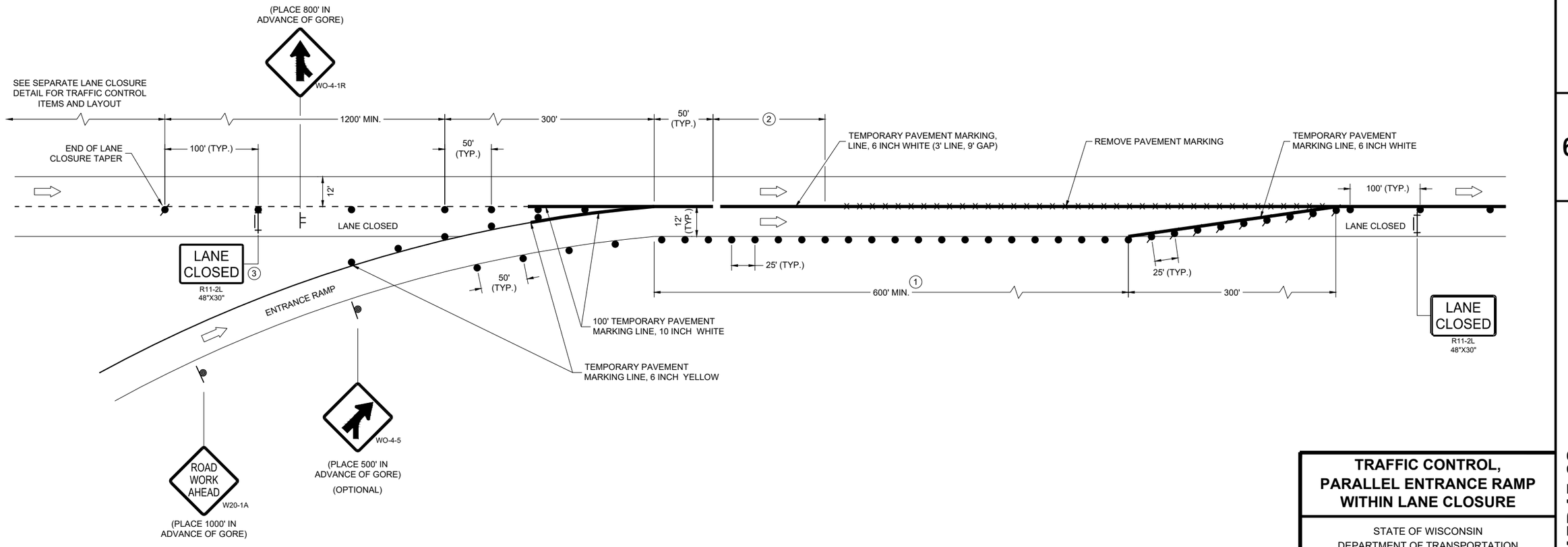
REMOVE PAVEMENT MARKINGS AND PLACE TEMPORARY PAVEMENT MARKING LINES IF LANE CLOSURE IS TO BE IN PLACE FOR 4 OR MORE CONTINUOUS DAYS AND NIGHTS.

WARNING LIGHTS ARE NOT REQUIRED IF THE LANE CLOSURE IS A DAYTIME ONLY OPERATION.

(1) EXTEND THE LENGTH OF THE MERGE ARE IF THE ENTERING (DESIGN) SPEED IS LESS THAN 50MPH OR IF THE MAINLINE GRADE EXCEEDS ±2.2%.

(2) END TEMPORARY PAVEMENT MARKING LINE AT 1/2 THE LENGTH OF FULL WIDTH OF THE ACCELERATION LANE.

(3) IF LOCATED AFTER INITIAL LANE CLOSURE BARRICADE AND "LANE CLOSED" SIGN, USE 3 DRUMS IN PLACE OF BARRICADE AND SIGN.



TRAFFIC CONTROL, PARALLEL ENTRANCE RAMP WITHIN LANE CLOSURE

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED

February 2025
DATE

/S/ Andrew Heidtke
WORK ZONE ENGINEER

FHWA

6

SDD 15D15-08a

6

SDD 15D15-08a

LEGEND

- SIGN ON PERMANENT SUPPORT
- SIGN ON TEMPORARY SUPPORT
- TRAFFIC CONTROL DRUM
- TRAFFIC CONTROL DRUM WITH TYPE "C" STEADY BURN LIGHT
- REMOVING PAVEMENT MARKING (SEE GENERAL NOTES)
- TYPE III BARRICADE WITH ATTACHED SIGN
- DIRECTION OF TRAFFIC

GENERAL NOTES

THE INSTALLATIONS SHOWN ON THIS SHEET ARE TYPICAL EXAMPLES AND ARE NOT INTENDED TO REPRESENT ANY PARTICULAR RAMP. AT SPECIFIC FIELD LOCATIONS, SIMILAR INSTALLATIONS SHALL BE USED AND ADJUSTED TO THE GEOMETRICS OF THE RAMP AS COORDINATED WITH THE ENGINEER.

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.

"WO" IS THE SAME AS "W" EXCEPT THE BACKGROUND IS ORANGE.

SEE SEPARATE LANE CLOSURE DETAIL FOR TYPICAL SPACING OF TYPE III BARRICADES AND R11-2L "LANE CLOSED" SIGNS.

SIGNS THAT WILL BE IN PLACE LESS THAN 7 CONSECUTIVE DAYS AND NIGHTS OR THAT WILL BE PLACED IN A CLOSED LANE, MAY BE MOUNTED ON PORTABLE SUPPORTS.

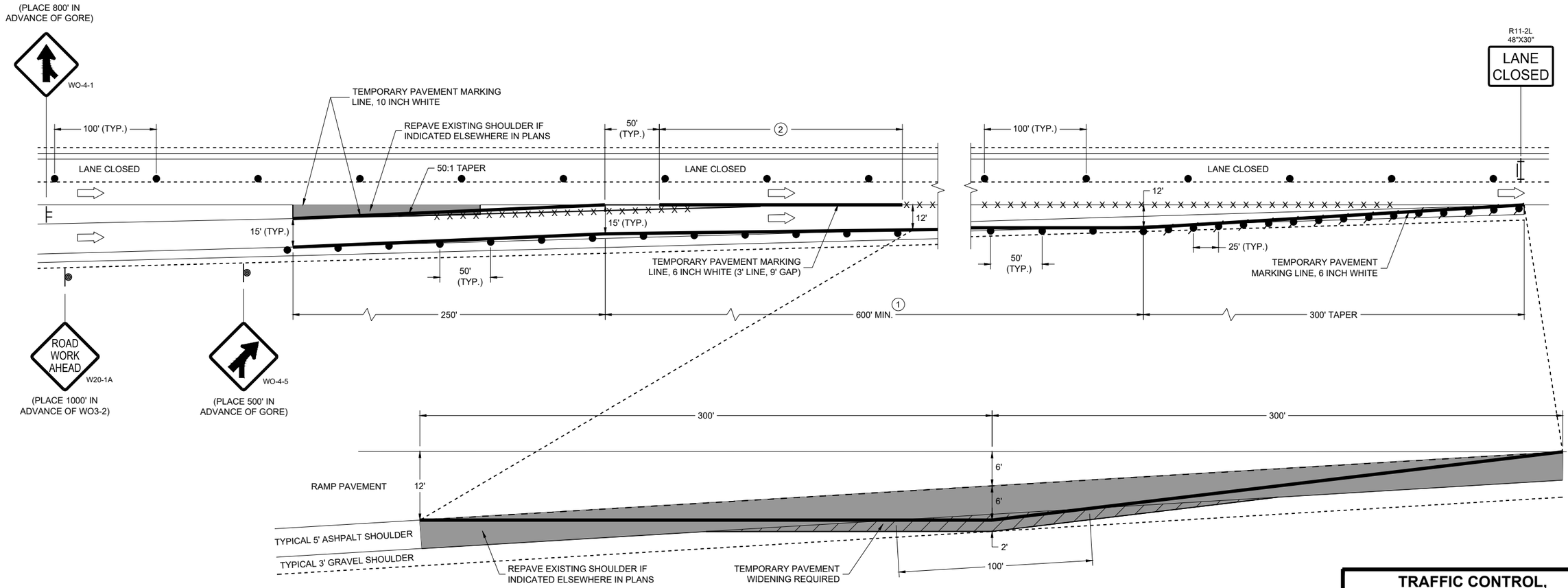
IF INDICATED IN MISCELLANEOUS QUANTITIES, SUBSTITUTE FLEXIBLE TUBULAR MARKERS /OR DRUMS IN THE GORE BETWEEN THE EXIT RAMP AND MAINLINE TRAFFIC.

ANY SIGNS TEMPORARY OR EXISTING, WHICH CONFLICT WITH TRAFFIC CONTROL "IN USE" SHALL BE REMOVED OR COVERED AS NEEDED AND AS APPROVED BY THE ENGINEER.
REMOVE PAVEMENT MARKINGS AND PLACE TEMPORARY PAVEMENT MARKING LINES IF LANE CLOSURE IS TO BE IN PLACE FOR 4 OR MORE CONTINUOUS DAYS AND NIGHTS.

WARNING LIGHTS ARE NOT REQUIRED IF THE LANE CLOSURE IS A DAYTIME ONLY OPERATION.

(1) EXTEND THE LENGTH OF THE MERGE AREA IF THE ENTERING (DESIGN) SPEED OF THE RAMP IS LESS THAN 50 MPH OR IF THE MAINLINE GRADE EXCEEDS ±2.2%.

(2) END TEMPORARY PAVEMENT MARKING LINE AT 1/2 THE LENGTH OF FULL WIDTH OF THE ACCELERATION LANE.



TEMPORARY PAVEMENT DETAIL

(EXISTING RAMP DIMENSIONS MAY VARY, ADJUST TEMPORARY PAVEMENT ACCORDINGLY)

TRAFFIC CONTROL, ENTRANCE RAMP WITHIN LANE CLOSURE

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
February 2025 — DATE
/S/ Andrew Heidtke — WORK ZONE ENGINEER
FHWA

6
SDD 15D15-08b

LEGEND

SIGN ON PERMANENT SUPPORT

SIGN ON TEMPORARY SUPPORT

TRAFFIC CONTROL DRUM

TRAFFIC CONTROL DRUM WITH TYPE "C" STEADY BURN LIGHT

REMOVING PAVEMENT MARKING (SEE GENERAL NOTES)

TYPE III BARRICADE WITH ATTACHED SIGN

DIRECTION OF TRAFFIC

GENERAL NOTES

THE INSTALLATIONS SHOWN ON THIS SHEET ARE TYPICAL EXAMPLES AND ARE NOT INTENDED TO REPRESENT ANY PARTICULAR RAMP. AT SPECIFIC FIELD LOCATIONS, SIMILAR INSTALLATIONS SHALL BE USED AND ADJUSTED TO THE GEOMETRICS OF THE RAMP AS COORDINATED WITH THE ENGINEER.

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.

"WO" IS THE SAME AS "W" EXCEPT THE BACKGROUND IS ORANGE.

SEE SEPARATE LANE CLOSURE DETAIL FOR TYPICAL SPACING OF TYPE III BARRICADES AND R11-2L "LANE CLOSED" SIGNS.

SIGNS THAT WILL BE IN PLACE LESS THAN 7 CONSECUTIVE DAYS AND NIGHTS OR THAT WILL BE PLACED IN A CLOSED LANE, MAY BE MOUNTED ON PORTABLE SUPPORTS.

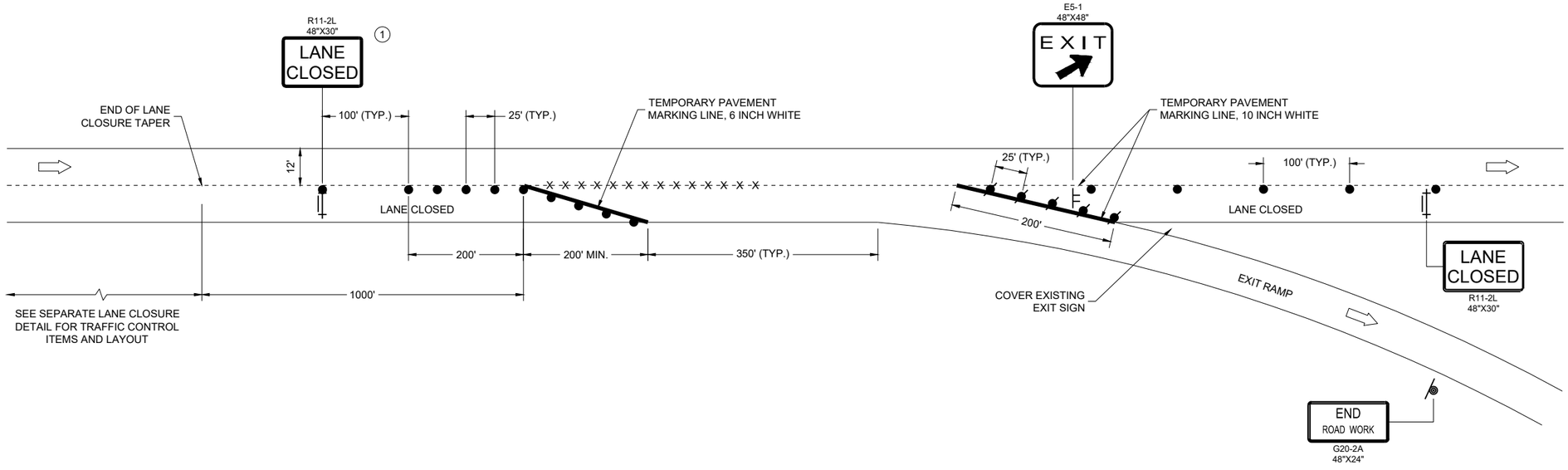
IF INDICATED IN MISCELLANEOUS QUANTITIES, SUBSTITUTE FLEXIBLE TUBULAR MARKERS FOR DRUMS IN THE GORE BETWEEN THE EXIT RAMP AND MAINLINE TRAFFIC.

ANY SIGNS TEMPORARY OR EXISTING, WHICH CONFLICT WITH TRAFFIC CONTROL "IN USE" SHALL BE REMOVED OR COVERED AS NEEDED AND AS APPROVED BY THE ENGINEER.

REMOVE PAVEMENT MARKINGS AND PLACE TEMPORARY PAVEMENT MARKING LINES IF LANE CLOSURE IS TO BE IN PLACE FOR 4 OR MORE CONTINUOUS DAYS AND NIGHTS.

WARNING LIGHTS ARE NOT REQUIRED IF THE LANE CLOSURE IS A DAYTIME ONLY OPERATION.

(1) IF LOCATED AFTER INITIAL LANE CLOSURE BARRICADE AND "LANE CLOSED" SIGN, USE 3 DRUMS IN PLACE OF BARRICADE AND SIGN.



TRAFFIC CONTROL, PARALLEL EXIT RAMP WITHIN LANE CLOSURE

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED

February 2025
DATE

/S/ Andrew Heidtke
WORK ZONE ENGINEER

FHWA

6

SDD 15D15-08e

LEGEND

- TYPE III BARRICADE
- TYPE III BARRICADE WITH ATTACHED SIGN
- TRAFFIC CONTROL DRUM
- SIGN ON PERMANENT SUPPORT
- TYPE "A" WARNING LIGHT (FLASHING)
- DIRECTION OF TRAFFIC

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 LINE IF RAMP CLOSURE IS TO BE IN PLACE 4 OR MORE CONTINUOUS DAYS AND NIGHTS.

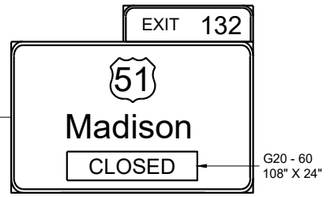
WORK AREAS WITH A DROP OFF ALONG THE EDGE OF AN OPEN TRAVEL LANE SHALL BE LEVELED WITH TEMPORARY FILL WHEN THE CONTRACTOR IS NOT WORKING ADJACENT TO THE TRAVEL LANE. DRUMS SHALL BE PLACED ENTIRELY OUTSIDE THE TRAVEL LANE, ALLOWING THE FULL UNOBSTRUCTED LANE WIDTH, WHEN WORK IS NOT IN PROGRESS.

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.

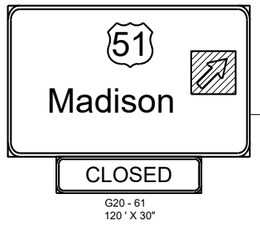
(1) W20 - 1A AND G20 - 2A SIGNS ARE NOT REQUIRED IF THE RAMP CLOSURE IS WITHIN A LARGER WORK ZONE WHERE THESE SIGNS ARE ALREADY PRESENT.

(2) PLACE "RAMP CLOSED BEGINNING" SIGN OR PCMS 7 CALENDAR DAYS PRIOR TO CLOSURE OR AS DIRECTED BY THE ENGINEER. SEE WISCONSIN STANDARD SIGN PLATES FOR SIGN LAYOUT.

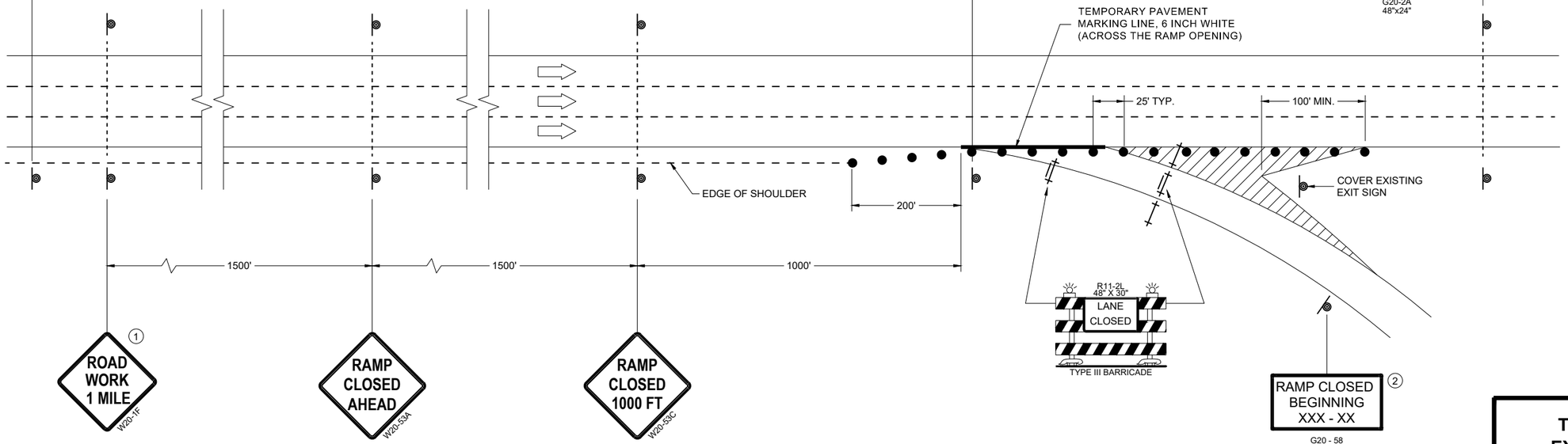
OR



PLACE SIGN G20 - 60 OVER MILEAGE ON EXISTING E1 - 1A SIGN



COVER ARROW ON EXISTING E4 - 1 SIGN (COVERING SIGNS TYPE I)



OR

PCMS MESSAGING

FRAME 1	FRAME 2
RAMP TO CLOSE	XXXDAY XX XX XX

TRAFFIC CONTROL, EXIT RAMP CLOSURE

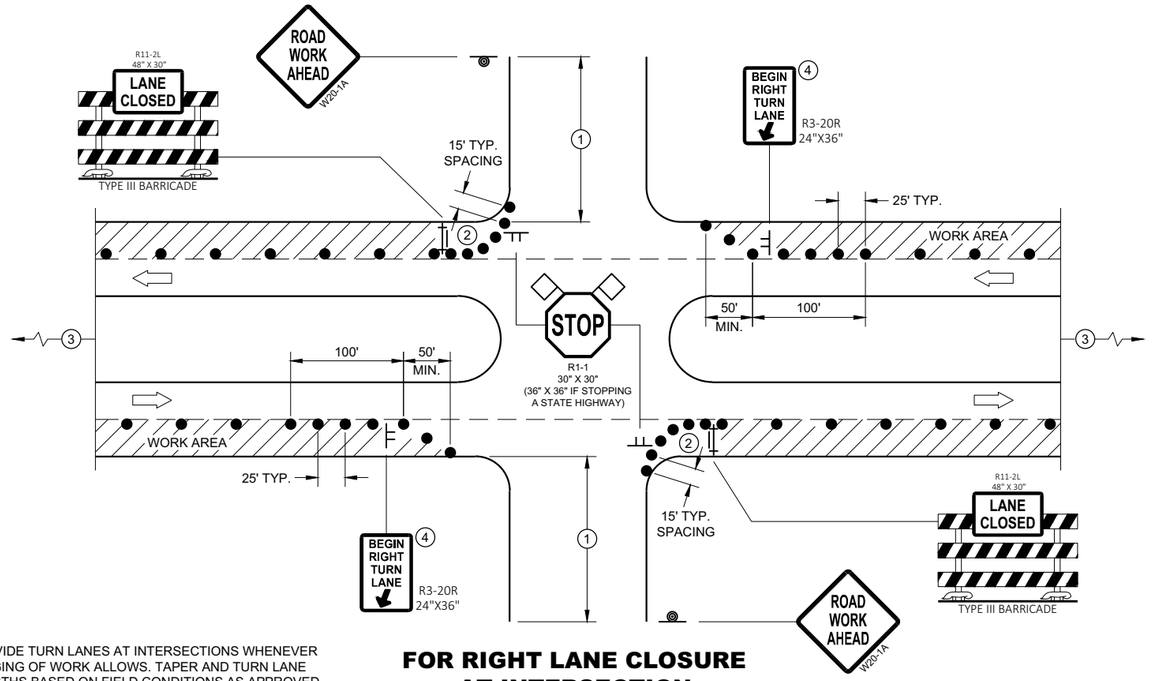
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
November 2025 — DATE
/S/ Andrew Heidtke — <position>

FHWA

6

SDD 15D16-07



PROVIDE TURN LANES AT INTERSECTIONS WHENEVER STAGING OF WORK ALLOWS. TAPER AND TURN LANE LENGTHS BASED ON FIELD CONDITIONS AS APPROVED BY THE ENGINEER.

FOR RIGHT LANE CLOSURE AT INTERSECTION

GENERAL NOTES

ALL SIGNS ARE 48"X48" UNLESS OTHERWISE NOTED. IF NECESSARY DUE TO SPACE CONSTRAINTS IN URBAN AREAS, 36" X 36" MAY BE USED IF APPROVED BY THE DISTRICT TRAFFIC UNIT.

"WO" SIGN IS THE SAME AS "W" SIGN EXCEPT THE BACKGROUND IS ORANGE.

ANY SIGNS TEMPORARY OR EXISTING, WHICH CONFLICT WITH THE TRAFFIC CONTROL "IN USE" SHALL BE REMOVED OR COVERED AS NEEDED AND AS APPROVED BY THE ENGINEER. NO WARNING LIGHTS SHALL BE WORKING ON COVERED OR "DOWNED" SIGNS.

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 TO PROVIDE A MINIMUM OF 200 FEET (500' DESIRABLE) DISTANCE TO EXISTING SIGNS THAT WILL REMAIN IN PLACE

SIGN LAYOUTS SHALL BE IN ACCORDANCE WITH THE FHWA'S MANUAL OF STANDARD HIGHWAY SIGNS OR THE WISCONSIN STANDARD SIGN PLATES.

SIGNS THAT WILL REMAIN IN PLACE LESS THAN 7 CONTINUOUS DAYS AND NIGHTS OR THAT WILL BE PLACED IN A CLOSED LANE MAY BE MOUNTED ON PORTABLE SUPPORTS.

BARRICADES IN A CLOSED LANE THAT MUST BE MOVED FOR A WORK OPERATION SHALL BE IMMEDIATELY REESTABLISHED UPON COMPLETION OF THE OPERATION, OR FOR CONTINUING OPERATIONS, AT THE END OF EACH WORKING DAY.

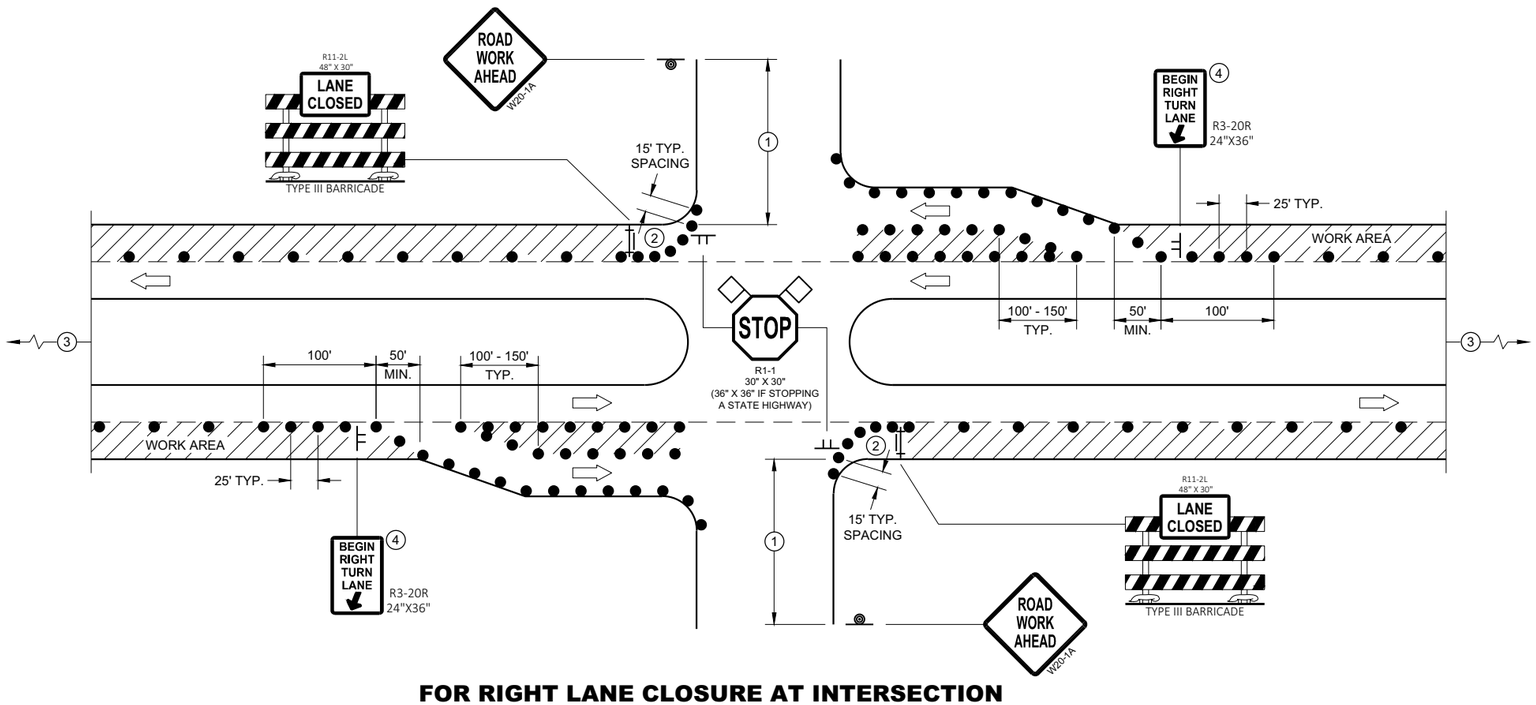
CHANNELIZING DEVICES PLACED ADJACENT TO WORK AREA SHALL BE PULLED BACK FROM THE TRAVEL LANE WHEN WORK IS NOT IN PROGRESS.

(1) 500' TYPICAL OR AT LAST INTERSECTION, WHICHEVER IS CLOSER.
350' IF 35 - 40 MPH.
200' IF 25 - 30 MPH.

(2) ALSO USE BARRICADE AND 15 FOOT TYPICAL DRUM SPACING AT COMMERCIAL DRIVEWAYS

(3) SEE SEPARATE LANE CLOSURE DETAIL FOR ADDITIONAL TRAFFIC CONTROL.

(4) MINIMUM MOUNTING HEIGHT OF 5 FEET FROM EDGE OF PAVEMENT (AT EDGE LINE LOCATION) TO BOTTOM OF SIGN.



FOR RIGHT LANE CLOSURE AT INTERSECTION (WITH RIGHT TURN BAY OPEN)

LEGEND

- SIGN ON TEMPORARY SUPPORT
- SIGN ON PERMANENT SUPPORT
- TRAFFIC CONTROL DRUM
- TYPE III BARRICADE WITH ATTACHED SIGN
- DIRECTION OF TRAFFIC
- FLAGS, 16" X 16" MIN., ORANGE
- WORK AREA

TRAFFIC CONTROL, INTERSECTION WITHIN SINGLE RIGHT LANE CLOSURE

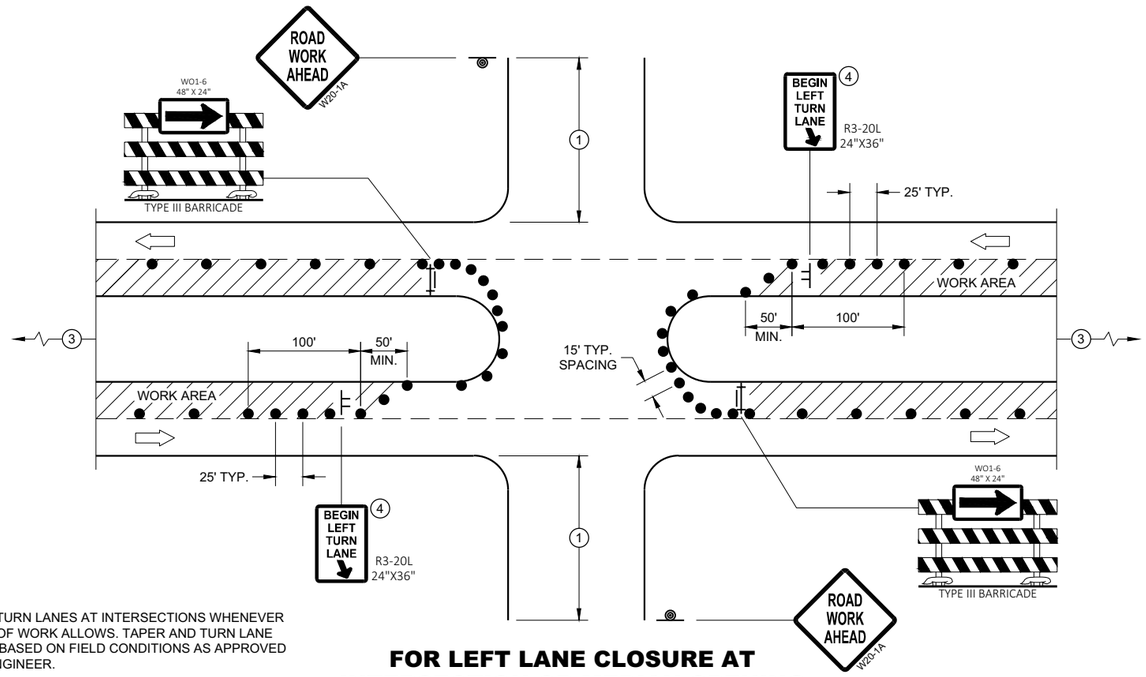
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

6

SDD 15D21 - 07a

6

SDD 15D21 - 07a



PROVIDE TURN LANES AT INTERSECTIONS WHENEVER STAGING OF WORK ALLOWS. TAPER AND TURN LANE LENGTHS BASED ON FIELD CONDITIONS AS APPROVED BY THE ENGINEER.

FOR LEFT LANE CLOSURE AT INTERSECTION OR MEDIAN OPENING

GENERAL NOTES

ALL SIGNS ARE 48"X48" UNLESS OTHERWISE NOTED. IF NECESSARY DUE TO SPACE CONSTRAINTS IN URBAN AREAS, 36" X 36" MAY BE USED IF APPROVED BY THE DISTRICT TRAFFIC UNIT.

"WO" SIGN IS THE SAME AS "W" SIGN EXCEPT THE BACKGROUND IS ORANGE.

ANY SIGNS TEMPORARY OR EXISTING, WHICH CONFLICT WITH THE TRAFFIC CONTROL "IN USE" SHALL BE REMOVED OR COVERED AS NEEDED AND AS APPROVED BY THE ENGINEER. NO WARNING LIGHTS SHALL BE WORKING ON COVERED OR "DOWNED" SIGNS.

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 TO PROVIDE A MINIMUM OF 200 FEET (500' DESIRABLE) DISTANCE TO EXISTING SIGNS THAT WILL REMAIN IN PLACE

SIGN LAYOUTS SHALL BE IN ACCORDANCE WITH THE FHWA'S MANUAL OF STANDARD HIGHWAY SIGNS OR THE WISCONSIN STANDARD SIGN PLATES.

SIGNS THAT WILL REMAIN IN PLACE LESS THAN 7 CONTINUOUS DAYS AND NIGHTS OR THAT WILL BE PLACED IN A CLOSED LANE MAY BE MOUNTED ON PORTABLE SUPPORTS.

BARRICADES IN A CLOSED LANE THAT MUST BE MOVED FOR A WORK OPERATION SHALL BE IMMEDIATELY REESTABLISHED UPON COMPLETION OF THE OPERATION, OR FOR CONTINUING OPERATIONS, AT THE END OF EACH WORKING DAY.

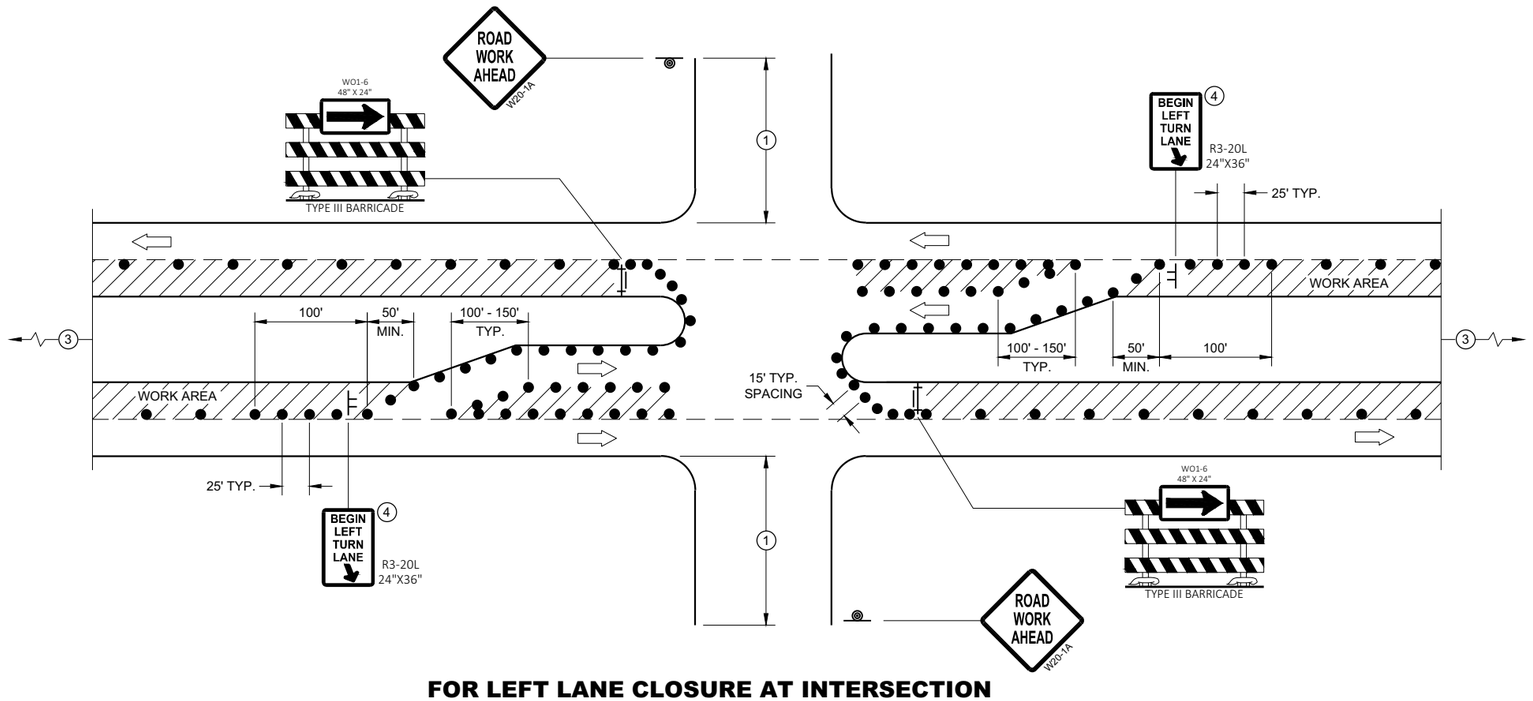
CHANNELIZING DEVICES PLACED ADJACENT TO WORK AREA SHALL BE PULLED BACK FROM THE TRAVEL LANE WHEN WORK IS NOT IN PROGRESS.

(1) 500' TYPICAL OR AT LAST INTERSECTION, WHICHEVER IS CLOSER.
350' IF 35 - 40 MPH.
200' IF 25 - 30 MPH.

(2) ALSO USE BARRICADE AND 15 FOOT TYPICAL DRUM SPACING AT COMMERCIAL DRIVEWAYS

(3) SEE SEPARATE LANE CLOSURE DETAIL FOR ADDITIONAL TRAFFIC CONTROL.

(4) MINIMUM MOUNTING HEIGHT OF 5 FEET FROM EDGE OF PAVEMENT (AT EDGE LINE LOCATION) TO BOTTOM OF SIGN.



FOR LEFT LANE CLOSURE AT INTERSECTION OR MEDIAN OPENING (WITH LEFT TURN BAY OPEN)

LEGEND

- SIGN ON TEMPORARY SUPPORT
- SIGN ON PERMANENT SUPPORT
- TRAFFIC CONTROL DRUM
- TYPE III BARRICADE WITH ATTACHED SIGN
- DIRECTION OF TRAFFIC
- FLAGS, 16" X 16" MIN., ORANGE
- WORK AREA

TRAFFIC CONTROL, INTERSECTION WITHIN SINGLE LEFT LANE CLOSURE

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
August 2020 — DATE
/S/ Andrew Heidtke — WORK ZONE ENGINEER
FHWA

6

SDD 15D21 - 07b

6

SDD 15D21 - 07b

LEGEND

- SIGN ON PERMANENT SUPPORT
- TRAFFIC CONTROL DRUM
- DIRECTION OF TRAFFIC
- CONNECTED ARROW BOARD
- WORK AREA
- (S) WZ START LOCATION MARKER
- (E) WZ END LOCATION MARKER

GENERAL NOTES

THIS DETAIL IS TYPICAL FOR CLOSING THE RIGHT SHOULDER. FOR CLOSING THE LEFT SHOULDER, REVERSE THE TRAFFIC CONTROL.

THIS DETAIL MAY BE USED FOR DIVIDED ROADWAYS WITH ANY NUMBER OF TRAVEL LANES.

ALL SIGNS ARE 48"X48" UNLESS OTHERWISE NOTED.

ANY SIGNS TEMPORARY OR EXISTING, WHICH CONFLICT WITH THE TRAFFIC CONTROL "IN USE" SHALL BE REMOVED OR COVERED AS NEEDED AND AS APPROVED BY THE ENGINEER.

THE EXACT NUMBER, LOCATION, AND SPACING OF ALL SIGNS AND DEVICES SHALL BE ADJUSTED TO FIT FIELD CONDITIONS AS APPROVED BY THE ENGINEER.

WHEN A RAMP OR SIDE ROAD INTERSECTS THE FACILITY ON WHICH THE WORK IS BEING PERFORMED, ADDITIONAL TRAFFIC CONTROLS SHALL BE PROVIDED AS SPECIFIED IN THE PLANS AND/OR SPECIAL PROVISIONS OR AS APPROVED BY THE ENGINEER.

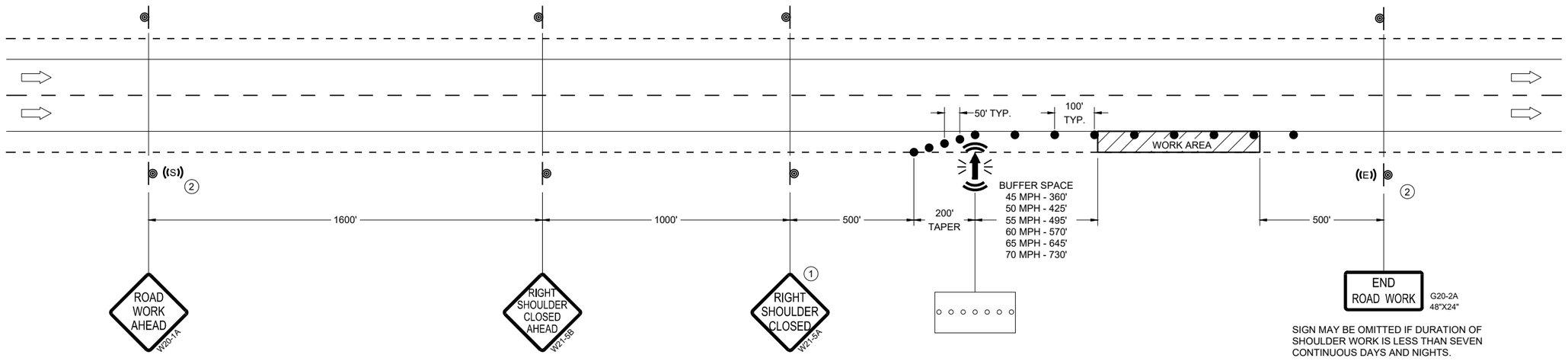
CHANNELIZING DEVICES PLACED ADJACENT TO WORK AREA SHALL BE PULLED BACK FROM THE TRAVEL LANE WHEN WORK IS NOT IN PROGRESS.

SIGNS THAT WILL BE IN PLACE LESS THAN 7 CONTINUOUS DAYS AND NIGHTS MAY BE MOUNTED ON PORTABLE SUPPORTS.

SIGN LAYOUTS SHALL BE IN ACCORDANCE WITH THE FHWA'S MANUAL OF STANDARD HIGHWAY SIGNS OR THE WISCONSIN STANDARD SIGN PLATES.

(1) FOR SHORT DURATION SHOULDER WORK OF LESS THAN ONE HOUR THE W21-5A SIGN MAY BE OMITTED.

(2) IF ALREADY PRESENT WITHIN PROJECT , DO NOT INCLUDE ADDITIONAL DEVICE.



SIGN MAY BE OMITTED IF DURATION OF SHOULDER WORK IS LESS THAN SEVEN CONTINUOUS DAYS AND NIGHTS.

TRAFFIC CONTROL, SHOULDER CLOSURE ON DIVIDED ROADWAY, SPEEDS GREATER THAN 40 MPH

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED

Noveber 2025
DATE

/S/ Andrew Heidtke
STATEWIDE WORK ZONE TRAFFIC SAFETY ENGINEER

FHWA

6
SDD 15D27-05

LEGEND

- SIGN ON PERMANENT SUPPORT
- TRAFFIC CONTROL DRUM
- DIRECTION OF TRAFFIC
- WORK ZONE

GENERAL NOTES

ALL SIGNS ARE 48"X48" UNLESS OTHERWISE NOTED. IF NECESSARY DUE TO SPACE CONSTRAINTS IN URBAN AREAS, 36" X 36" SIGNS MAY BE USED IF APPROVED BY THE REGIONAL TRAFFIC UNIT.

"WO" SIGN IS THE SAME AS "W" SIGN EXCEPT THE BACKGROUND IS ORANGE.

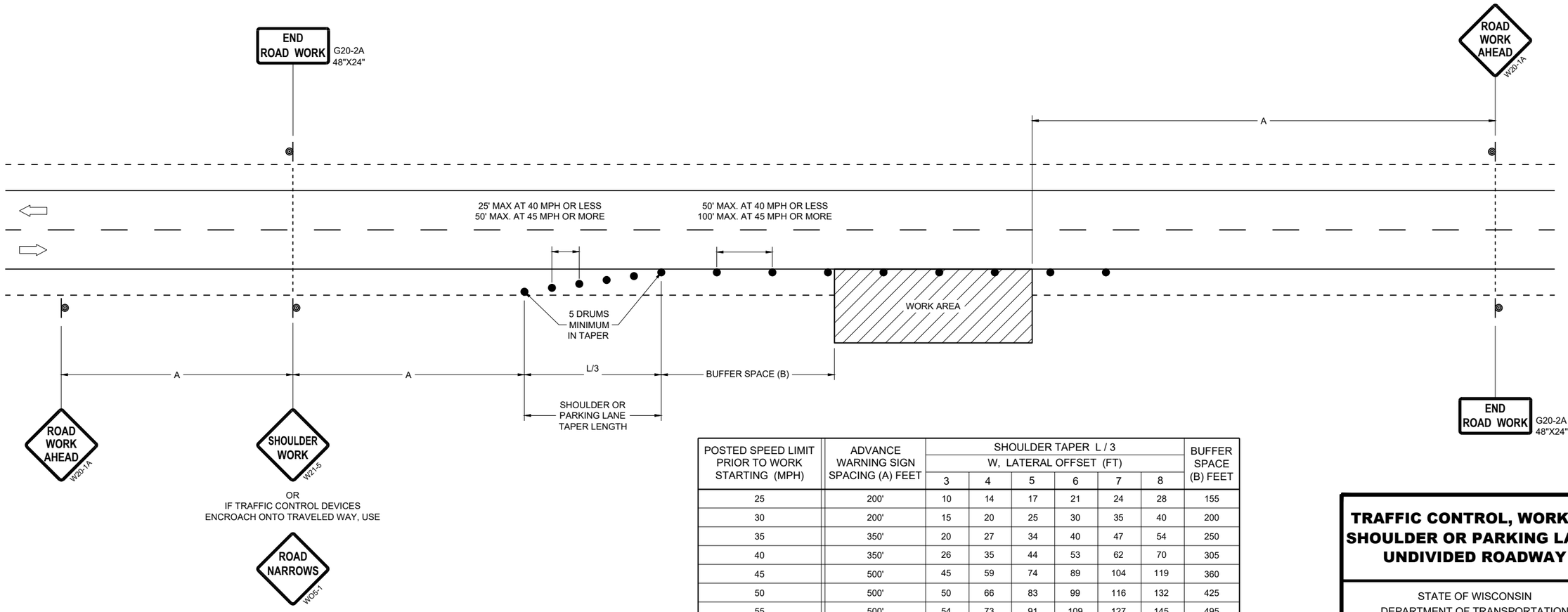
ANY SIGNS TEMPORARY OR EXISTING, WHICH CONFLICT WITH THE TRAFFIC CONTROL "IN USE" SHALL BE REMOVED OR COVERED AS NEEDED AND AS APPROVED BY THE ENGINEER.

THE EXACT NUMBER, LOCATION, AND SPACING OF ALL SIGNS AND DEVICES SHALL BE ADJUSTED TO FIT FIELD CONDITIONS AS APPROVED BY THE ENGINEER.

CHANNELIZING DEVICES PLACED ADJACENT TO WORK AREA SHALL BE PULLED BACK FROM THE TRAVEL LANE WHEN WORK IS NOT IN PROGRESS.

SIGNS THAT WILL BE IN PLACE LESS THAN 7 CONTINUOUS DAYS AND NIGHTS MAY BE MOUNTED ON PORTABLE SUPPORTS.

W20-1A AND G20-2A SIGNS ARE NOT REQUIRED IF THE WORK AREA IS WITHIN A LARGER WORK ZONE WHERE THESE SIGNS ARE ALREADY PRESENT. G20-2A SIGNS MAY ALSO BE OMITTED IF DURATION OF WORK IS LESS THAN 7 CONTINUOUS DAYS AND NIGHTS.



POSTED SPEED LIMIT PRIOR TO WORK STARTING (MPH)	ADVANCE WARNING SIGN SPACING (A) FEET	SHOULDER TAPER L / 3 W, LATERAL OFFSET (FT)						BUFFER SPACE (B) FEET
		3	4	5	6	7	8	
25	200'	10	14	17	21	24	28	155
30	200'	15	20	25	30	35	40	200
35	350'	20	27	34	40	47	54	250
40	350'	26	35	44	53	62	70	305
45	500'	45	59	74	89	104	119	360
50	500'	50	66	83	99	116	132	425
55	500'	54	73	91	109	127	145	495

TRAFFIC CONTROL, WORK ON SHOULDER OR PARKING LANE, UNDIVIDED ROADWAY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
November 2025
DATE

/S/ ANDREW HEIDTKE
STATEWIDE WORK ZONE TRAFFIC SAFETY ENGINEER

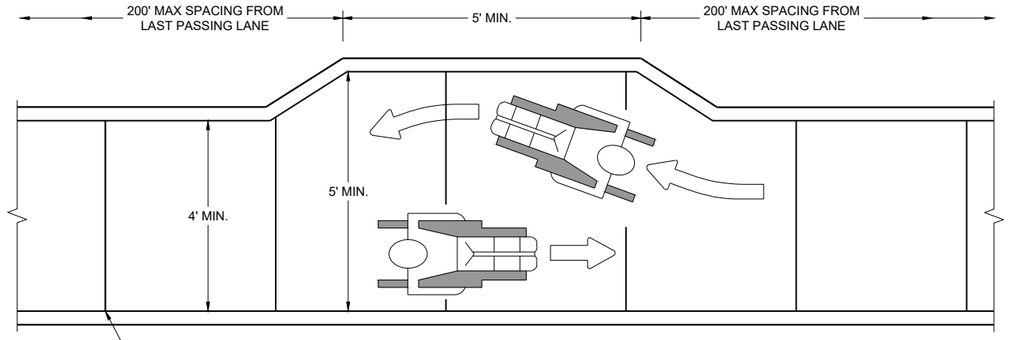
FHWA

6

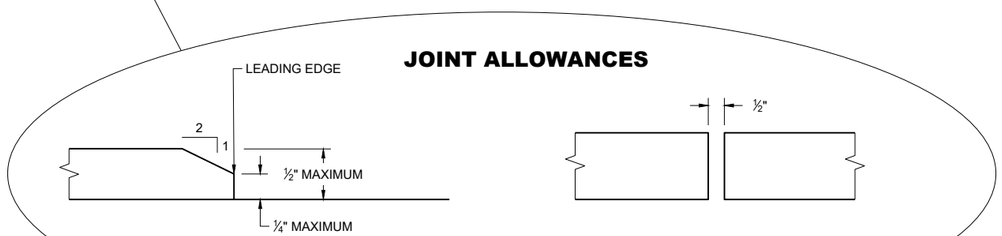
SDD 15D28-05

6

SDD 15D28-05



NARROW SIDEWALK PASSING DETAIL



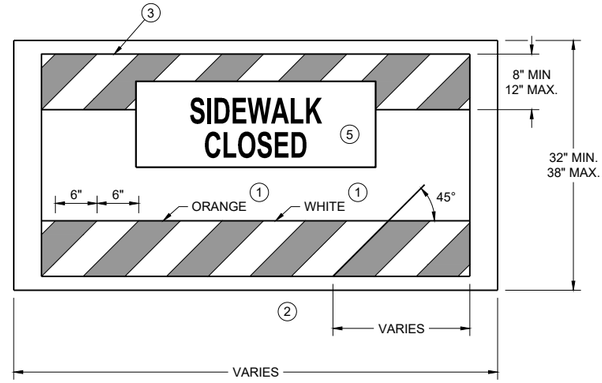
MAXIMUM VERTICAL GAP

MAXIMUM HORIZONTAL GAP

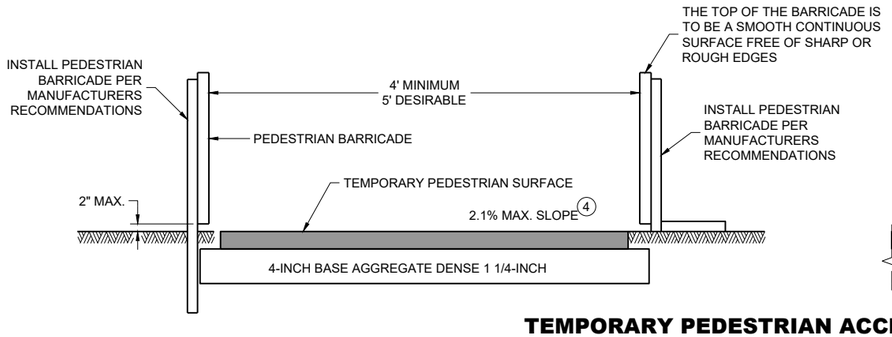
GENERAL NOTES

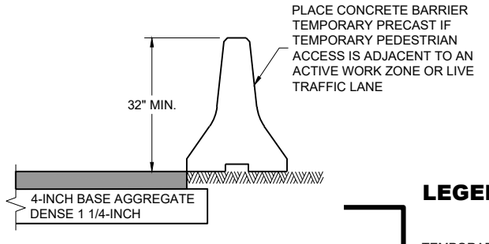
BARRICADE DEVICE SELECTED FROM APPROVED PRODUCT LIST

1. REFLECTIVE SHEETING SHALL FOLLOW THE REQUIREMENTS IN THE APPROVED PRODUCTS LISTING FOR SIGN SHEETING.
2. SHEETING REQUIRED ON MORE THAN 50% OF BARRICADE WIDTH.
3. PLACE SHEETING ON BOTH SIDES OF THE BARRICADE.
* USE THIS DETAIL FOR SHEETING PLACEMENT REFERENCE.
4. WHEN THE TEMPORARY PEDESTRIAN ACCESS ROUTE RUNS PARALLEL ON THE ROADWAY SURFACE, THE MAXIMUM CROSS SLOPE WILL MATCH THE EXISTING ROADWAY CROSS SLOPE.
5. WHERE SIGNS FOR TEMPORARY PEDESTRIAN ACCOMMODATIONS ARE SHOWN BEING PLACED BEHIND TEMPORARY PEDESTRIAN BARRICADE, THE SIGNS MAY BE MOUNTED ON THE TEMPORARY PEDESTRIAN BARRICADE INSTEAD. A CORRUGATED POLYPROPYLENE OR POLYETHYLENE PLASTIC SIGN BASE SHALL BE USED IF MOUNTED ON THE BARRICADE. THE TOP OF THE SIGN SHALL BE MOUNTED BELOW THE TOP OF THE BARRICADE TO ALLOW A CONTINUOUS HAND-TRAILING EDGE.

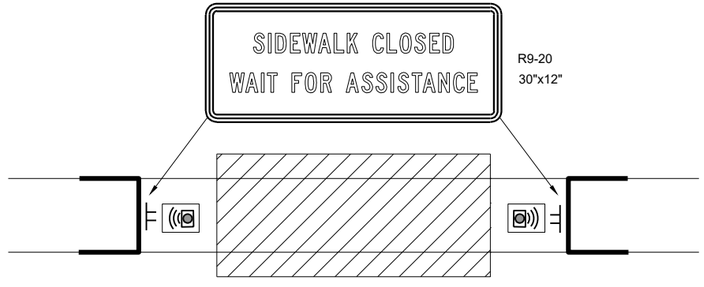


TEMPORARY PEDESTRIAN BARRICADE *





TEMPORARY PEDESTRIAN ACCESS



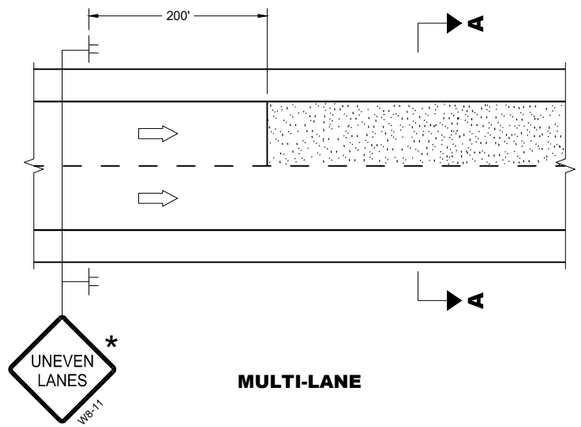
TEMPORARY PEDESTRIAN FLAGGING

LEGEND

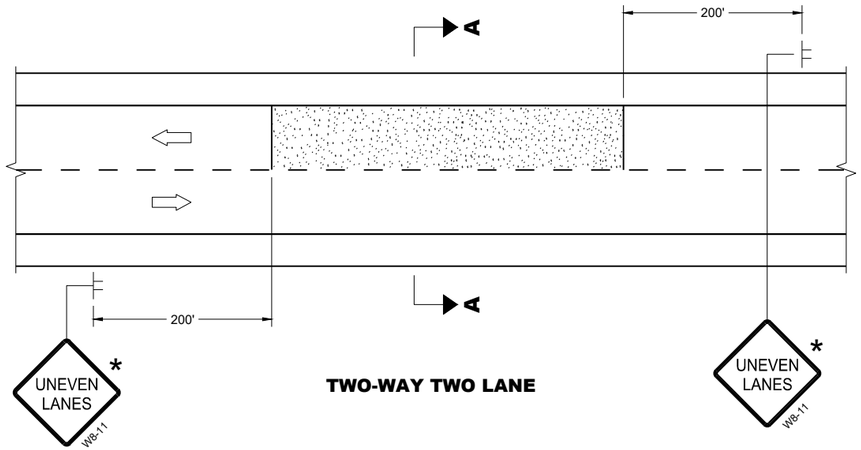
- TEMPORARY PEDESTRIAN BARRICADE
- AUDIBLE MESSAGE DEVICE
- TEMPORARY SIGN SUPPORT
- WORK AREA

TRAFFIC CONTROL, PEDESTRIAN ACCOMMODATION

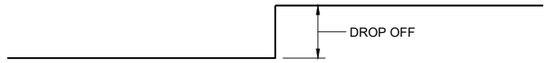
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION



MULTI-LANE

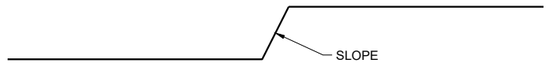


TWO-WAY TWO LANE

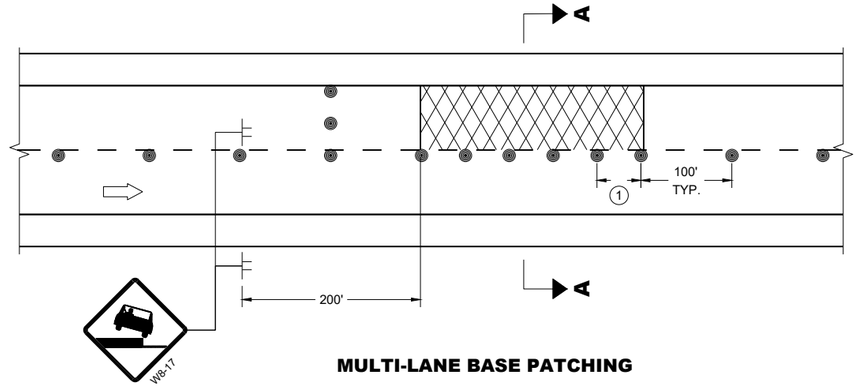


SECTION A - A

OR



SECTION A - A



MULTI-LANE BASE PATCHING

ADJACENT LANE DROP-OFFS

GENERAL NOTES

FOR SPOT LOCATIONS USE ENGINEERING JUDGEMENT WHEN PLACING ADDITIONAL SIGNS.

ALL SIGNS ARE 48" X 48" UNLESS OTHERWISE NOTED.

"WO" SIGNS ARE THE SAME AS "W" SIGNS EXCEPT THE BACKGROUND IS ORANGE.

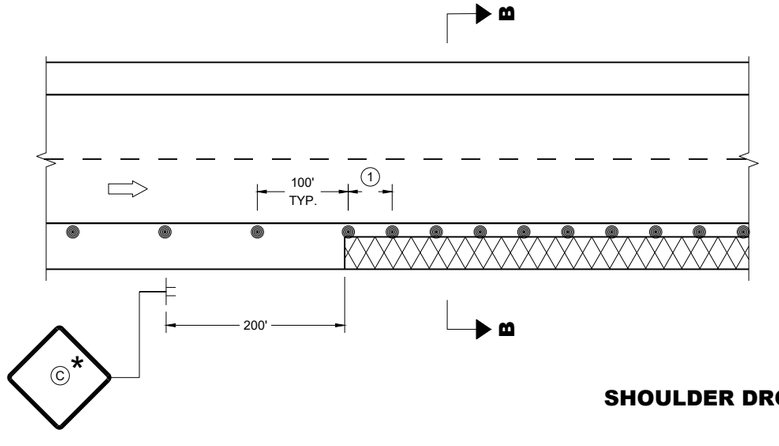
WARNING LIGHTS ARE NOT REQUIRED IF THE LANE CLOSURE IS A DAYTIME ONLY OPERATION.

* IF THE DROP-OFF IS CONTINUOUS ALONG THE PROJECT, PLACE ADDITIONAL SIGNS EVERY 1 MILE AND AFTER EVERY ENTRANCE RAMP.

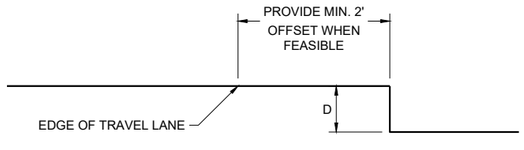
(1) USE CLOSER SPACING WHEN DELINEATING DROP-OFF.

LEGEND

- SIGN ON TEMPORARY SUPPORT
- TRAFFIC CONTROL DRUM
- TYPE III BARRICADE WITH ATTACHED SIGN
- TYPE "A" WARNING LIGHT (FLASHING)
- DIRECTION OF TRAFFIC
- WORK AREA WITH DROP-OFF
- MILLED SURFACE



SHOULDER DROP-OFFS



SECTION B - B

D	SIGN (C)
< 2" WITH A SLOPE STEEPER THAN 3:1	LOW SHOULDER W08-9
2" < 6" WITH A SLOPE STEEPER THAN 3:1	SHOULDER DROP - OFF W8-9A
	PROVIDE A 3:1 OR FLATTER SLOPE OF MATERIAL ADJACENT TO THE PAVEMENT

TRAFFIC CONTROL, DROP-OFF SIGNING

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
February 2025 — DATE
/S/ Andrew Heidtke — WORK ZONE ENGINEER
FHWA

6
SDD 15D39-03

LEGEND

- TYPE III BARRICADE WITH ATTACHED SIGN
- SIGN ON PERMANENT SUPPORT
- TRAFFIC CONTROL DRUM
- TRAFFIC CONTROL DRUM WITH TYPE "C" STEADY BURN LIGHT
- TYPE "A" WARNING LIGHT (FLASHING)
- DIRECTION OF TRAFFIC
- WORK AREA
- REMOVING PAVEMENT MARKING (SEE GENERAL NOTES)
- CONCRETE BARRIER TEMPORARY PRECAST

POSTED SPEED LIMIT PRIOR TO WORK STARTING (MPH)	ADVANCE WARNING SIGN SPACING (A) FEET	SHIFTING TAPER L/2 W, LATERAL OFFSET (FT)					BUFFER SPACE (B) FEET
		10	11	12	13	14	
25	200	52	57	63	68	73	155
30	200	75	83	90	98	105	200
35	350	102	112	123	133	143	250
40	350	133	147	160	173	187	305
45	500	225	248	270	293	315	360

GENERAL NOTES

THE EXACT NUMBER, LOCATION, AND SPACING OF ALL SIGNS AND DEVICES SHALL BE ADJUSTED TO FIT FIELD CONDITIONS AS APPROVED BY THE ENGINEER.

THE SPACING BETWEEN SIGNS SHOULD BE ADJUSTED TO NOT CONFLICT WITH AND TO PROVIDE A MINIMUM OF 200 FEET, (500 FEET DESIRABLE) DISTANCE TO EXISTING SIGNS.

THIS LANE CLOSURE IS TYPICAL FOR LANE SHIFT RIGHT - REVERSE FOR SHIFTING LEFT.

ALL SIGNS ARE 48"x48" UNLESS OTHERWISE NOTED.

"WO" IS THE SAME AS "W" EXCEPT THE BACKGROUND IS ORANGE.

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. NO WARNING LIGHTS SHALL BE WORKING ON ANY "COVERED" OR "DOWNED" SIGNS.

CONSIDER GEOMETRICS WHEN LOCATING SIGNS AND ARROW BOARDS SO THE DRIVER HAS A CLEAR VIEW OF THE ARROW BOARD AND LANE CLOSURE DRUMS FOR A MINIMUM 1500 FEET IN FRONT OF DRUMS.

FOR A LANE CLOSURE THAT IS IN PLACE LESS THAN 7 CONTINUOUS DAYS AND NIGHTS, THE ADVANCED WARNING SIGNS MAY BE MOUNTED ON PORTABLE SUPPORTS.

REMOVE PAVEMENT MARKINGS AND PLACE TEMPORARY PAVEMENT MARKING LINES IF LANE CLOSURE IS TO BE IN PLACE FOR 4 OR MORE CONTINUOUS DAYS AND NIGHTS.

WARNING LIGHTS ARE NOT REQUIRED IF THE LANE CLOSURE IS A DAYTIME ONLY OPERATION.

IF THE HORIZONTAL ALIGNMENT IS SUCH THAT A CURVE MAY REQUIRE ADDITIONAL DELINEATION, THE DEVICE SPACING MAY BE DECREASED TO 50 FEET.

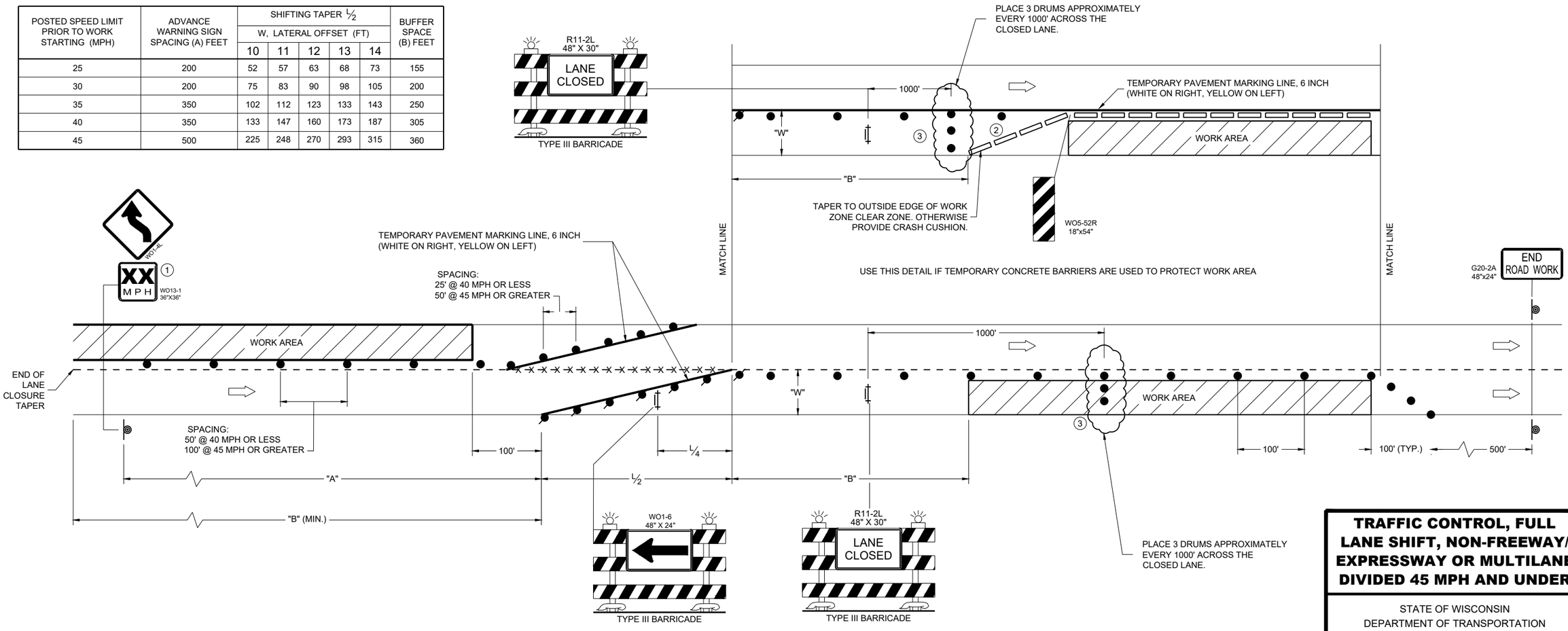
ADJUSTMENTS IN BUFFER SPACE NEED TO BE INCORPORATED WHEN THE LANE SHIFT OCCURS NEAR AN INTERCHANGE EXIT OR ENTRANCE RAMP. THE LANE SHIFT MUST TAKE PLACE FAR ENOUGH IN ADVANCE OF AN EXIT OR ENTRANCE RAMP TO STILL ALLOW FOR ADEQUATE BUFFER

SPACE. THE MINIMUM LENGTH OF THE BUFFER SPACE BEFORE AN EXIT RAMP SHOULD BE 1/2 THE LENGTH OF THE TRANSITION AREA. THE ENTRANCE RAMP SHOULD BE FOLLOWED BY THE ORIGINAL BUFFER SPACE LENGTH OF 800 FEET DESIRABLE PRIOR TO ANOTHER TRAFFIC CONTROL
CHANGE SUCH AS A CROSSOVER MANEUVER.

(1) USE ONLY IF DESIGN SPEED IS 10 MPH BELOW POSTED SPEED.

(2) BARRIER FLARE RATE: 6:1 @ 40 MPH OR LESS
8:1 @ 45 MPH OR GREATER

(3) DRUMS IN A CLOSED LANE THAT MUST BE MOVED FOR A WORK OPERATION SHALL BE IMMEDIATELY REESTABLISHED UPON COMPLETION OF THE OPERATION, OR FOR CONTINUING OPERATIONS, AT THE END OF EACH WORKING DAY.



TRAFFIC CONTROL, FULL LANE SHIFT, NON-FREEWAY/ EXPRESSWAY OR MULTILANE DIVIDED 45 MPH AND UNDER

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
November 2025
DATE

/S/ Andrew Heidtke
WORK ZONE ENGINEER

FHWA

6

SDD 15D40-07a

6

SDD 15D40-07a

LEGEND

- TYPE III BARRICADE WITH ATTACHED SIGN
- SIGN ON PERMANENT SUPPORT
- TRAFFIC CONTROL DRUM
- TRAFFIC CONTROL DRUM WITH TYPE "C" STEADY BURN LIGHT
- TYPE "A" WARNING LIGHT (FLASHING)
- DIRECTION OF TRAFFIC
- WORK AREA
- REMOVING PAVEMENT MARKING (SEE GENERAL NOTES)
- CONCRETE BARRIER TEMPORARY PRECAST

POSTED SPEED LIMIT PRIOR TO WORK STARTING (MPH)	SHIFTING TAPER L/2 W, LATERAL OFFSET (FT)					BUFFER SPACE (B) FEET
	10	11	12	13	14	
50	250	275	300	325	350	425
55	275	303	330	358	385	495
60	300	330	360	390	420	570
65	325	358	390	423	455	645
70	350	385	420	455	490	730

GENERAL NOTES

THE EXACT NUMBER, LOCATION, AND SPACING OF ALL SIGNS AND DEVICES SHALL BE ADJUSTED TO FIT FIELD CONDITIONS AS APPROVED BY THE ENGINEER.

THE SPACING BETWEEN SIGNS SHOULD BE ADJUSTED TO NOT CONFLICT WITH AND TO PROVIDE A MINIMUM OF 200 FEET, (500 FEET DESIRABLE) DISTANCE TO EXISTING SIGNS.

THIS LANE CLOSURE IS TYPICAL FOR LANE SHIFT RIGHT - REVERSE FOR SHIFTING LEFT.

ALL SIGNS ARE 48"x48" UNLESS OTHERWISE NOTED.

"WO" IS THE SAME AS "W" EXCEPT THE BACKGROUND IS ORANGE.

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. NO WARNING LIGHTS SHALL BE WORKING ON ANY "COVERED" OR "DOWNED" SIGNS.

CONSIDER GEOMETRICS WHEN LOCATING SIGNS AND ARROW BOARDS SO THE DRIVER HAS A CLEAR VIEW OF THE ARROW BOARD AND LANE CLOSURE DRUMS FOR A MINIMUM 1500 FEET IN FRONT OF DRUMS.

FOR A LANE CLOSURE THAT IS IN PLACE LESS THAN 7 CONTINUOUS DAYS AND NIGHTS, THE ADVANCED WARNING SIGNS MAY BE MOUNTED ON PORTABLE SUPPORTS.

REMOVE PAVEMENT MARKINGS AND PLACE TEMPORARY PAVEMENT MARKING LINES IF LANE CLOSURE IS TO BE IN PLACE FOR 4 OR MORE CONTINUOUS DAYS AND NIGHTS.

WARNING LIGHTS ARE NOT REQUIRED IF THE LANE CLOSURE IS A DAYTIME ONLY OPERATION.

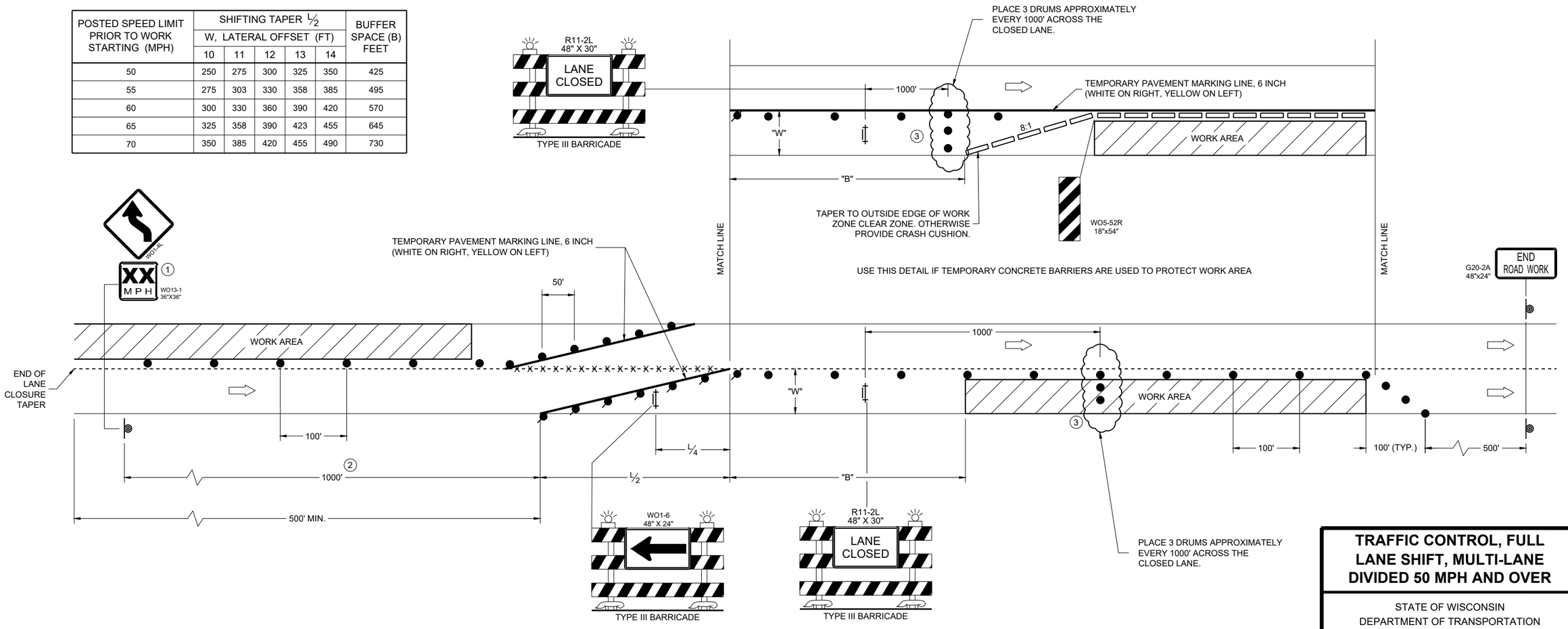
IF THE HORIZONTAL ALIGNMENT IS SUCH THAT A CURVE MAY REQUIRE ADDITIONAL DELINEATION, THE DEVICE SPACING MAY BE DECREASED TO 50 FEET.

ADJUSTMENTS IN BUFFER SPACE NEED TO BE INCORPORATED WHEN THE LANE SHIFT OCCURS NEAR AN INTERCHANGE EXIT OR ENTRANCE RAMP. THE LANE SHIFT MUST TAKE PLACE FAR ENOUGH IN ADVANCE OF AN EXIT OR ENTRANCE RAMP TO STILL ALLOW FOR ADEQUATE BUFFER SPACE. THE MINIMUM LENGTH OF THE BUFFER SPACE BEFORE AN EXIT RAMP SHOULD BE THE LENGTH OF ½ THE TRANSITION AREA. THE ENTRANCE RAMP SHOULD BE FOLLOWED BY THE ORIGINAL BUFFER SPACE LENGTH OF 800 FEET DESIRABLE PRIOR TO ANOTHER TRAFFIC CONTROL CHANGE SUCH AS A CROSSOVER MANEUVER.

(1) USE ONLY IF DESIGN SPEED IS 10 MPH BELOW POSTED SPEED.

(2) IF BEGINNING OF LANE SHIFT IS 1200' OF LESS FROM THE END OF THE LANE CLOSURE TAPER, PLACE THE WO1-4L SIGN 200 FEET AFTER THE END OF THE LANE CLOSURE TAPER.

(3) DRUMS IN A CLOSED LANE THAT MUST BE MOVED FOR A WORK OPERATION SHALL BE IMMEDIATELY REESTABLISHED UPON COMPLETION OF THE OPERATION, OR FOR CONTINUING OPERATIONS, AT THE END OF EACH WORKING DAY.



TRAFFIC CONTROL, FULL LANE SHIFT, MULTI-LANE DIVIDED 50 MPH AND OVER

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
November 2025 — DATE
/S/ Andrew Heidtke — WORK ZONE ENGINEER

FHWA

6
SDD 15D40-07b

LEGEND

- TYPE III BARRICADE WITH ATTACHED SIGN
- SIGN ON PERMANENT SUPPORT
- TRAFFIC CONTROL DRUM
- TRAFFIC CONTROL DRUM WITH TYPE "C" STEADY BURN LIGHT
- TYPE "A" WARNING LIGHT (FLASHING)
- DIRECTION OF TRAFFIC
- WORK AREA
- REMOVING PAVEMENT MARKING (SEE GENERAL NOTES)
- CONCRETE BARRIER TEMPORARY PRECAST

GENERAL NOTES

THE EXACT NUMBER, LOCATION, AND SPACING OF ALL SIGNS AND DEVICES SHALL BE ADJUSTED TO FIT FIELD CONDITIONS AS APPROVED BY THE ENGINEER.

THE SPACING BETWEEN SIGNS SHOULD BE ADJUSTED TO NOT CONFLICT WITH AND TO PROVIDE A MINIMUM OF 200 FEET, (500 FEET DESIRABLE) DISTANCE TO EXISTING SIGNS.

THIS LANE CLOSURE IS TYPICAL FOR LANE SHIFT LEFT - REVERSE FOR SHIFTING RIGHT.

ALL SIGNS ARE 48"x48" UNLESS OTHERWISE NOTED.

"WO" IS THE SAME AS "W" EXCEPT THE BACKGROUND IS ORANGE.

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. NO WARNING LIGHTS SHALL BE WORKING ON ANY "COVERED" OR "DOWNED" SIGNS.

CONSIDER GEOMETRICS WHEN LOCATING SIGNS AND ARROW BOARDS SO THE DRIVER HAS A CLEAR VIEW OF THE ARROW BOARD AND LANE CLOSURE DRUMS FOR A MINIMUM 1500 FEET IN FRONT OF DRUMS.

FOR A LANE CLOSURE THAT IS IN PLACE LESS THAN 7 CONTINUOUS DAYS AND NIGHTS, THE ADVANCED WARNING SIGNS MAY BE MOUNTED ON PORTABLE SUPPORTS.

REMOVE PAVEMENT MARKINGS AND PLACE TEMPORARY PAVEMENT MARKING LINES IF LANE CLOSURE IS TO BE IN PLACE FOR 4 OR MORE CONTINUOUS DAYS AND NIGHTS.

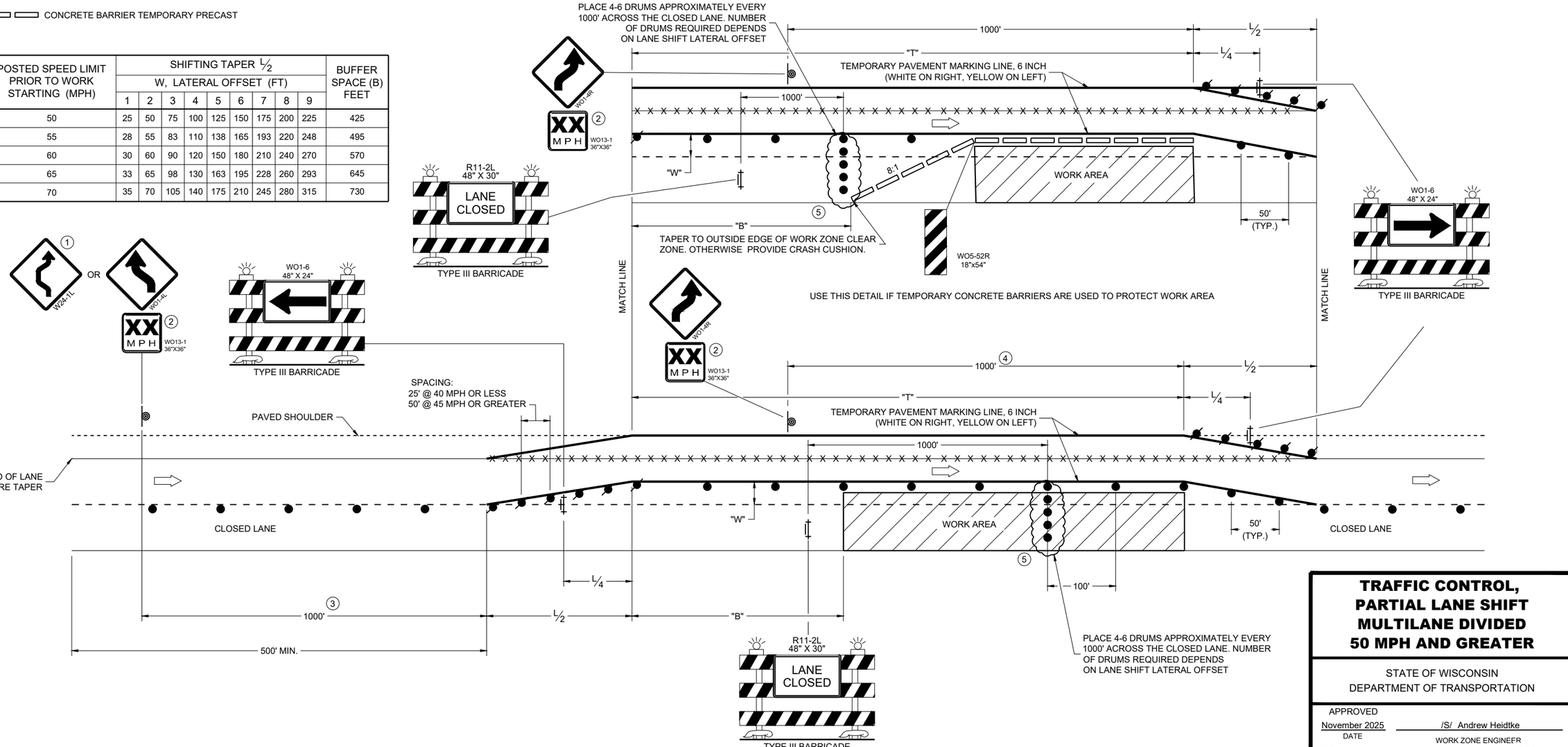
WARNING LIGHTS ARE NOT REQUIRED IF THE LANE CLOSURE IS A DAYTIME ONLY OPERATION.

IF THE HORIZONTAL ALIGNMENT IS SUCH THAT A CURVE MAY REQUIRE ADDITIONAL DELINEATION, THE DEVICE SPACING MAY BE DECREASED TO 50 FEET.

ADJUSTMENTS IN BUFFER SPACE NEED TO BE INCORPORATED WHEN THE LANE SHIFT OCCURS NEAR AN INTERCHANGE EXIT OR ENTRANCE RAMP. THE LANE SHIFT MUST TAKE PLACE FAR ENOUGH IN ADVANCE OF AN EXIT OR ENTRANCE RAMP TO STILL ALLOW FOR ADEQUATE BUFFER SPACE. THE MINIMUM LENGTH OF THE BUFFER SPACE BEFORE AN EXIT RAMP SHOULD BE 1/2 THE LENGTH OF THE TRANSITION AREA. THE ENTRANCE RAMP SHOULD BE FOLLOWED BY THE ORIGINAL BUFFER SPACE LENGTH OF 800 FEET DESIRABLE PRIOR TO ANOTHER TRAFFIC CONTROL CHANGE SUCH AS A CROSSOVER MANEUVER.

1. USE ONLY WHEN T<600', OMIT WO1-4R.
2. IF NEEDED, USE ONLY IF DESIGN SPEED IS 10 MPH BELOW POSTED SPEED.
3. IF THE BEGINNING OF LANE SHIFT TAPER IS 1200 FEET OR LESS FROM END OF LANE CLOSURE TAPER, PLACE THE WO1-4L SIGN 200 FEET AFTER THE END OF THE LANE CLOSURE TAPER.
4. IF THE BEGINNING OF THE SECOND LANE SHIFT TAPER IS 1200 FEET OR LESS FROM END OF THE FIRST LANE CLOSURE TAPER, PLACE THE WO1-4L SIGN 200 FEET AFTER THE END OF THE FIRST LANE CLOSURE TAPER.
5. DRUMS IN A CLOSED LANE THAT MUST BE MOVED FOR A WORK OPERATION SHALL BE IMMEDIATELY REESTABLISHED UPON COMPLETION OF THE OPERATION, OR FOR CONTINUING OPERATIONS, AT THE END OF EACH WORKING DAY.

POSTED SPEED LIMIT PRIOR TO WORK STARTING (MPH)	SHIFTING TAPER 1/2 W, LATERAL OFFSET (FT)									BUFFER SPACE (B) FEET
	1	2	3	4	5	6	7	8	9	
50	25	50	75	100	125	150	175	200	225	425
55	28	55	83	110	138	165	193	220	248	495
60	30	60	90	120	150	180	210	240	270	570
65	33	65	98	130	163	195	228	260	293	645
70	35	70	105	140	175	210	245	280	315	730



TRAFFIC CONTROL, PARTIAL LANE SHIFT MULTILANE DIVIDED 50 MPH AND GREATER

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

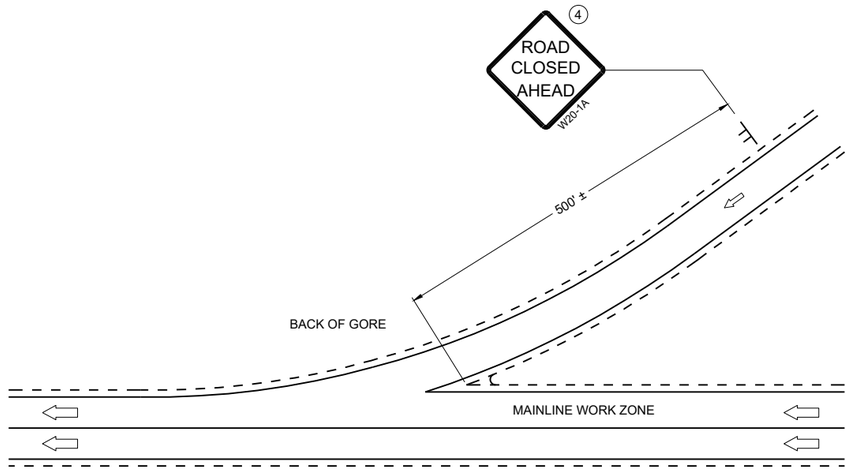
APPROVED
November 2025 — DATE
/S/ Andrew Heidtke — WORK ZONE ENGINEER

FHWA

6
SDD 15D40-07d

LEGEND

- V1 SHADOW VEHICLE 1
- V2 SHADOW VEHICLE 2
- V3 ADVANCE WARNING TRUCK
- ● TRAFFIC CONTROL DRUM
- TRUCK MOUNTED ATTENUATOR (TMA)
- SIGN ON TEMPORARY SUPPORT
- DIRECTION OF TRAFFIC
- FLASHING ARROW PANEL (MERGE)
- FLASHING ARROW PANEL (CAUTION)
- PCMS PORTABLE CHANGEABLE MESSAGE SIGN
- WORK AREA



GENERAL NOTES

SHORT DURATION IS WORK THAT OCCUPIES A LOCATION UP TO 1 HOUR.

MOBILE IS WORK THAT MOVES INTERMITTENTLY OR CONTINUOUSLY.

ALL VEHICLES SHALL BE EQUIPPED WITH TWO 360 DEGREE HIGH INTENSITY YELLOW FLASHING LIGHTS OR STROBE LIGHTS AND OPERATED WITH HEADLIGHTS TURNED ON.

ALL VEHICLES SHALL BE EQUIPPED WITH REAR FACING TYPE B OR C FLASHING ARROW PANEL. SIGNS PLACED ON VEHICLES MUST NOT OBSCURE THE ARROW PANEL.

ALL SIGNS ARE 48" X 48" UNLESS OTHERWISE SPECIFIED.

WHEN WORK ACTIVITY BLOCKS THE RIGHT LANE, REVERSE TRAFFIC CONTROL.

WHEN A RAMP INTERSECTS THE FACILITY ON WHICH THE WORK IS BEING PERFORMED, PROVIDE ADDITIONAL TRAFFIC CONTROLS AS SPECIFIED IN THE CONTRACT OR AS APPROVED BY THE ENGINEER.

USE DOUBLE ARROWS WHEN CONVOY IS IN CENTER LANE ONLY.

WHEN NO WORK ACTIVITY IS TAKING PLACE, REMOVE OR LAY STATIONARY SIGNS AND SUPPORTS FLAT ON THE GRADE WITH UPRIGHTS ORIENTED PARALLEL TO AND DOWNSTREAM FROM TRAFFIC

WORKERS SHALL NOT PERFORM WORK FROM ANY SHADOW OR PROTECTION VEHICLES.

(1) DISTANCE BETWEEN VEHICLES MAY VARY ACCORDING TO TERRAIN, SIGHT DISTANCE AND OTHER FACTORS. WHENEVER ADEQUATE STOPPING SIGHT DISTANCE EXISTS TO THE REAR, SHADOW VEHICLES SHOULD MAINTAIN THE MINIMUM DISTANCE FROM THE WORK VEHICLE AND PROCEED AT THE SAME SPEED AS THE WORK VEHICLE. SHADOW VEHICLES SHOULD SLOW DOWN IN ADVANCE OF VERTICAL AND HORIZONTAL CURVES THAT RESTRICT SIGHT DISTANCE.

(2) DRUMS ARE TO BE USED FOR BRIDGE DECK SEALING AND OTHER PROJECTS THAT REQUIRE DELINEATION.

(3) WITHIN 5 MILES, RELOCATE SIGNS AS WORK PROGRESSES AND NECESSARY OR AS DIRECTED BY THE ENGINEER.

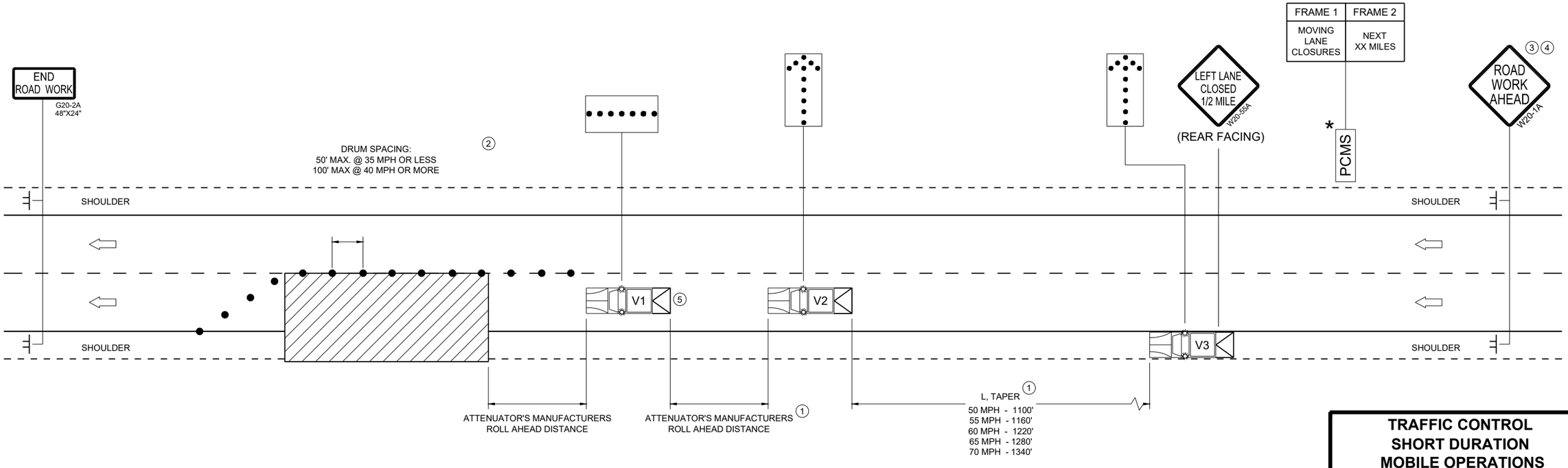
(4) SIGN NOT REQUIRED IF MOVING OPERATION OCCURS WITHIN A SIGNED ROAD WORK ZONE AREA.

(5) SHADOW VEHICLE 1 (V1) IS OPTIONAL

* PCMS OPTIONAL

PCMS MESSAGING

FRAME 1	FRAME 2
MOVING LANE CLOSURES	NEXT XX MILES



TRAFFIC CONTROL SHORT DURATION MOBILE OPERATIONS

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED

November 2025
DATE

/S/ Andrew Heidtke
WORK ZONE ENGINEER

FHWA

6
SDD 15D43-03

LEGEND

V1 WORK VEHICLE

V2 SHADOW VEHICLE

TRUCK MOUNTED ATTENUATOR (TMA)

FLASHING ARROW PANEL (CAUTION)

WORK AREA

DIRECTION OF TRAFFIC

POSTED SPEED PRIOR TO WORK STARTING (MPH)	DECISION SIGHT DISTANCE (D)
0 - 25	550'
30	550'
35	700'
40	700'
45	900'
50	900'
55	1200'

GENERAL NOTES

ALL SIGNS ARE 48"X48" UNLESS OTHERWISE NOTED.

MOBILE IS WORK THAT MOVES CONTINUOUSLY OR MOVES AT LEAST THE DECISION SIGHT DISTANCE EVERY 15 MINUTES.

ALL VEHICLES SHALL BE EQUIPPED WITH TWO 360 DEGREE HIGH INTENSITY YELLOW FLASHING LIGHTS OR STROBE LIGHTS AND OPERATED WITH HEADLIGHTS TURNED ON.

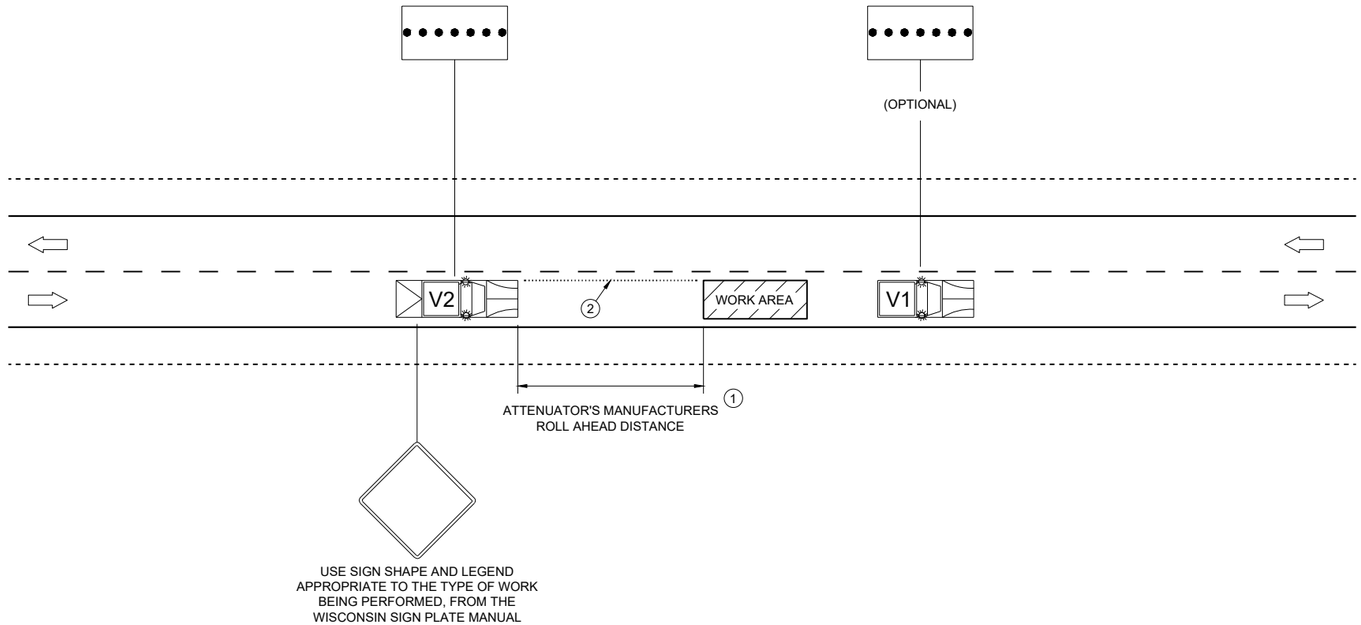
ALL ARROW PANELS SHALL BE REAR FACING, TYPE "B" OR "C", AND DISPLAYING THE FLASHING CAUTION MODE. SIGNS PLACED ON VEHICLES MUST NOT OBSCURE THE ARROW PANEL.

USE AN ATTENUATOR ON THE REARMOST VEHICLE THAT BLOCKS ALL OR PART OF THE TRAFFIC LANE.

WORKERS SHALL NOT PERFORM WORK FROM ANY SHADOW OR PROTECTION VEHICLES.

(1) DISTANCE BETWEEN VEHICLES MAY INCREASE FROM THE ATTENUATOR'S ROLL AHEAD BASED ON TERRAIN, SIGHT DISTANCE, AND OTHER FACTORS. WHENEVER ADEQUATE STOPPING SIGHT DISTANCE EXISTS TO THE REAR, SHADOW VEHICLES SHOULD MAINTAIN THE MINIMUM DISTANCE FROM THE WORK VEHICLE AND PROCEED AT THE SAME SPEED AS THE WORK VEHICLE. SHADOW VEHICLES SHOULD SLOW DOWN IN ADVANCE OF VERTICAL OR HORIZONTAL CURVES THAT RESTRICT SIGHT DISTANCE.

(2) ALIGN LEFT SIDE OF SHADOW VEHICLE WITH EDGE OF WORK AREA.



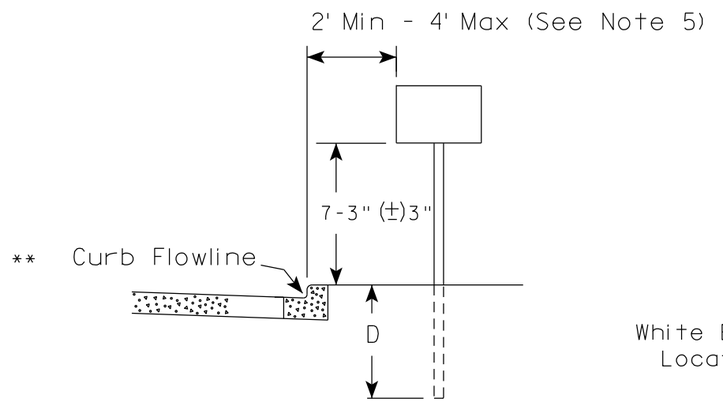
TRAFFIC CONTROL, MOBILE OPERATIONS ON AN UNDIVIDED ROADWAY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

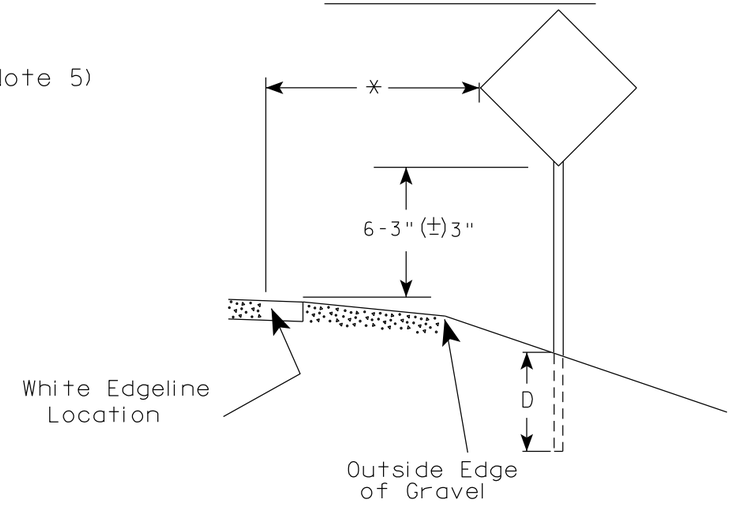
APPROVED
November 2025 — DATE
/S/ Andrew Heidtke — STATEWIDE WORK ZONE TRAFFIC SAFETY ENGINEER
FHWA

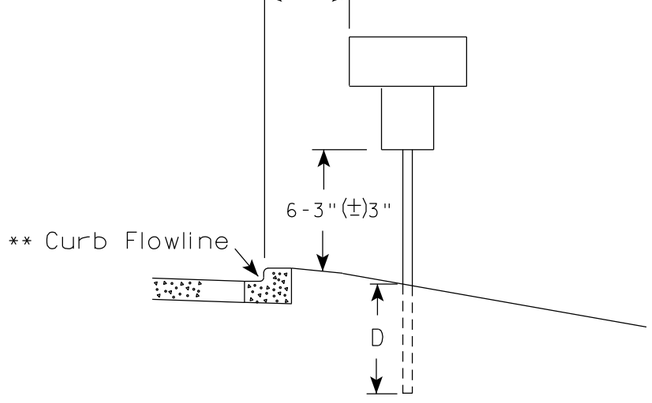
6 SDD 15D51-02

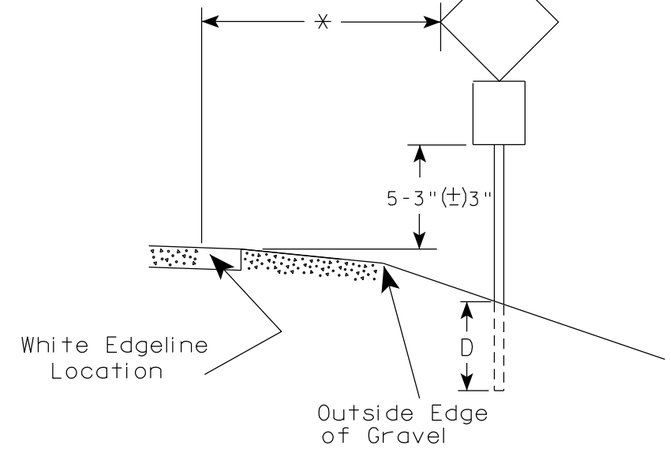
URBAN AREA



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 or behind barrier wall, see A4-10 sign plate.
   The Double Arrow sign (W12-1D) shall be mounted at a height of 2'-3" (±) 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" (±) 3".
3. For expressways and freeways, mounting height is 7'- 3" (±) 3" or 6'-3" (±) 3" depending upon existence of a sub-sign.
4. Minimum mounting height for signs mounted on traffic signal poles is 5'- 3" (±) 3".
5. Offset distance shall be consistent with existing signs or consistent throughout length of project.
6. Folding signs shall be mounted at a height of 5'-3" (±) 3" or as directd by the Engineer.

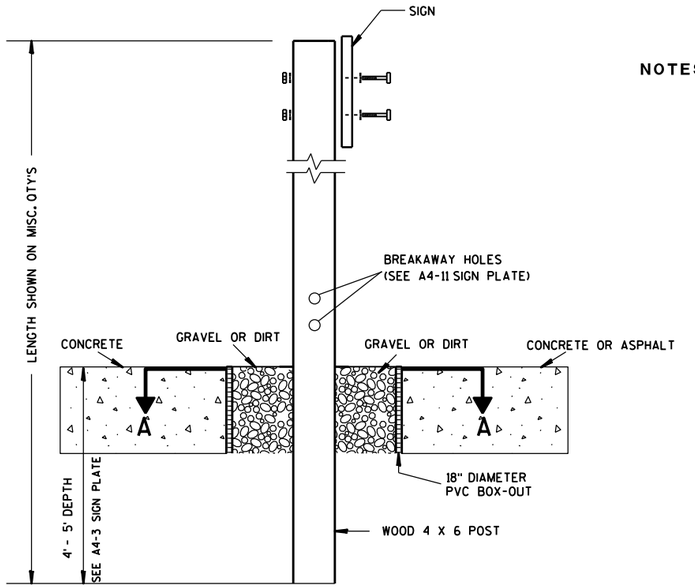
TYPICAL INSTALLATION OF PERMANENT TYPE II SIGNS ON SINGLE POSTS

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 12/6/23 PLATE NO. A4-3.23

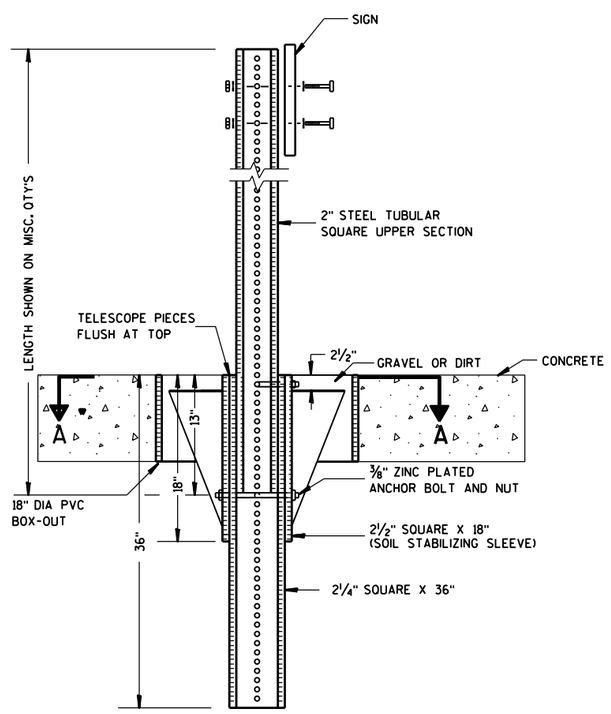
PROJECT NO:	HWY:	COUNTY:		SHEET NO: 285	E



ELEVATION VIEW

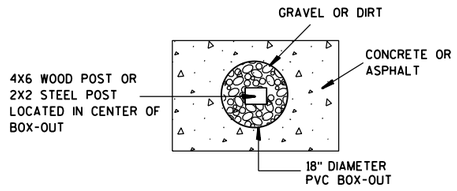
DETAIL OF WOOD 4 X 6 SIGN POST IN BOX-OUT

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

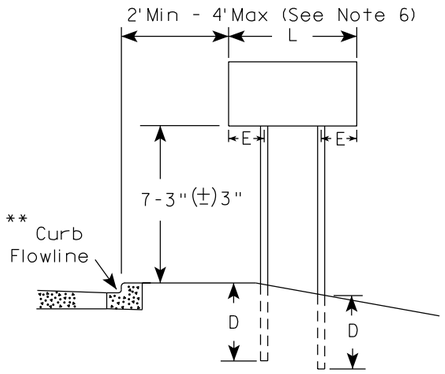
APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 1/27/14 PLATE NO. A4-3B.1

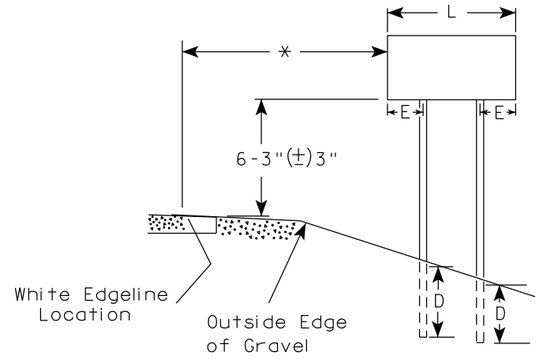
PROJECT NO:	HWY:	COUNTY:		SHEET NO:	E

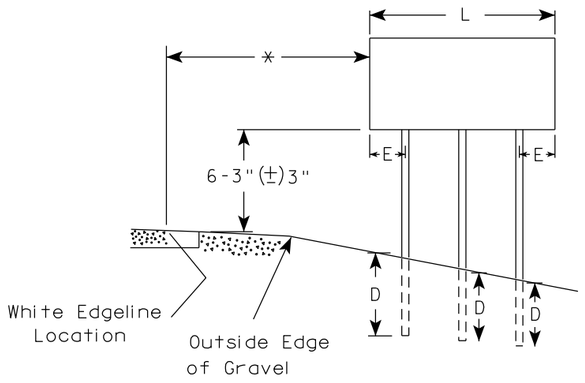
FILE NAME : C:\CAEFiles\Projects\tr_stdplate\A43B.DGN PLOT DATE : 27-JAN-2014 09:48 PLOT BY : mscsja PLOT NAME : PLOT SCALE : 13.659812:1.000000 WISDOT/CADDS SHEET 42

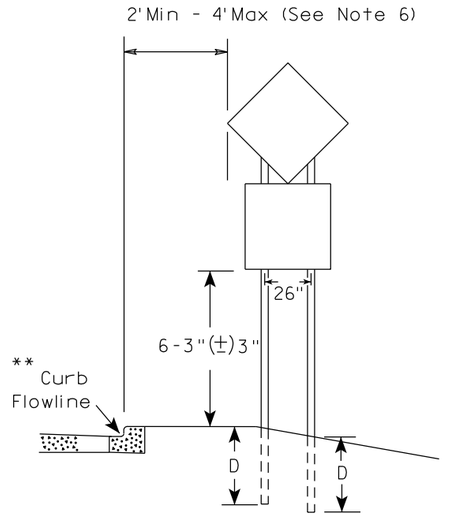
URBAN AREA



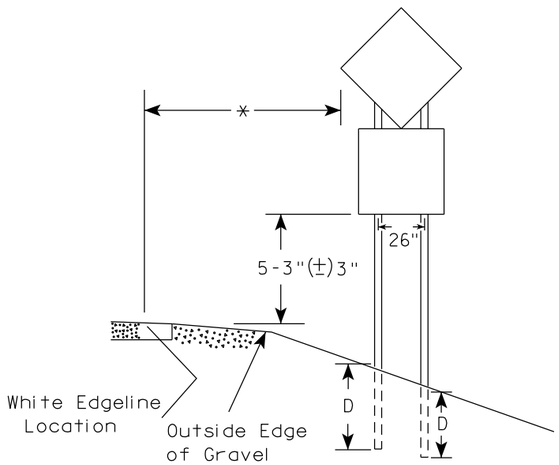
RURAL AREA (See Note 3)







48" DIAMOND WARNING SIGN



48" DIAMOND WARNING SIGN

SIGN SHAPE OTHER THAN DIAMOND (TWO POSTS REQUIRED)		
	L	E
***	Greater than 48" Less than 60"	12"
	60" to 108"	L/5

SIGN SHAPE OTHER THAN DIAMOND (THREE POSTS REQUIRED)	
L	E
Greater than 108" to 144"	12"

GENERAL NOTES

1. For 3 or 4 post installations, individual post spacing shall be greater than 3'-6".
2. See tables below for required number of posts.
3. For expressways and freeways, mounting height is 7'-3" (±) 3" or 6'-3" (±) 3" depending upon existence of sub-sign.
4. The (±) tolerance for mounting height is 3 inches.
5. J-Assemblies are considered to be one sign for mounting height.
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" (±) 3" or as directed by the engineer.
8. The Double Arrow sign (W12-1) shall be mounted at a height of 2'-3" (±) 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" (±) 3".

* 6 feet from edge of a paved shoulder or 12 feet from the edge of pavement (edge line location) or 2 feet from outside edge of gravel, whichever is greater unless directed by project engineer.

** The existence of curb and gutter does not in itself mandate the vertical clearance illustrated. That height is typically measured where there is sidewalk adjacent to the roadway or parking is permitted. In the absence of sidewalk vertical clearance is measured from the top of the curb. Offset of signs is measured from the flow line.

*** See A4-3 sign plate for signs 4' or less in width and less than 20 S.F. in area.

POST EMBEDMENT DEPTH

Area of Sign Installation (Sq. Ft.)	D (Min)
20 or Less	4'
Greater than 20	5'

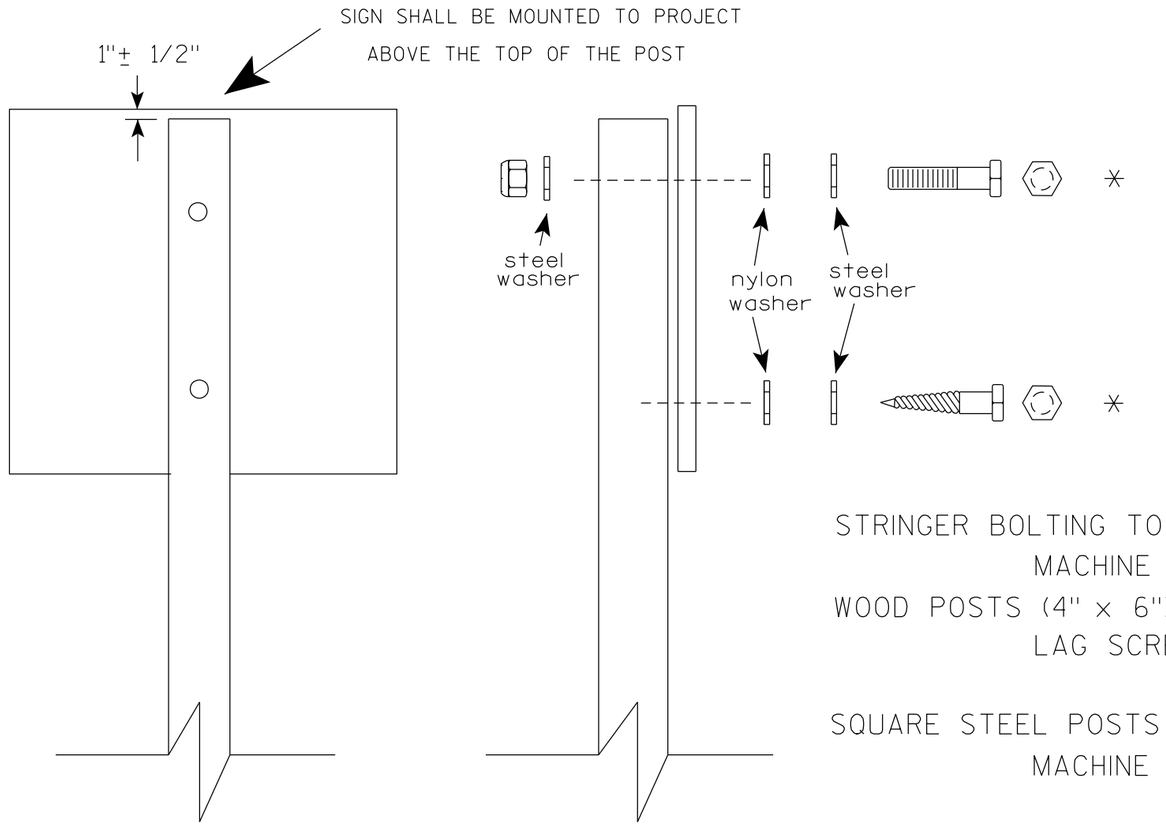
TYPICAL INSTALLATION OF TYPE II SIGNS ON MULTIPLE POSTS

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 12/6/23 PLATE NO. A4-4.16

PROJECT NO:	HWY:	COUNTY:		SHEET NO: 287	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.

STRINGER BOLTING TO ALUMINUM SIGNS (SEE SIGN PLATE A4-18)

MACHINE BOLTS - 5/16" X 1-3/4" Length w/ lock nuts

WOOD POSTS (4" x 6")

LAG SCREWS - 3/8" X 3" (NO STRINGERS ON BACK OF SIGN)
3/8" X 4" (STRINGERS ON BACK OF SIGN)

SQUARE STEEL POSTS (2" x 2")

MACHINE BOLTS - 3/8" X 3-1/4" Length w/ nuts (NO STRINGER ON BACK OF SIGN)
3/8" X 5" Length w/ nuts (STRINGERS ON BACK OF SIGN)

RIVETS - 9/32" (6605-9-6) BULB-TITE, TRI-FOLD, ALUMINUM BODY/MANDREL
O.D. FLANGE .720-.765 INCH, GRIP RANGE .042-.375 INCH

WASHERS (ALL POSTS) -

1-1/4" O.D. X 3/8" I.D. X 1/16" STEEL
1-1/4" O.D. X 3/8" I.D. X .080 NYLON

* Two different fastening systems are shown for illustration purposes. On any individual sign, either one or the other system shall be used. Actual number of fasteners per sign varies with the sign area, but normally there are two. For a single post installation, all signs greater than 9 sq. ft. require the use of 3 fasteners.

ATTACHMENT OF SIGNS TO POSTS

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 4/1/2020 PLATE NO. A4-8.9

PROJECT NO:

SHEET NO: 288 E

FILE NAME : C:\CAEFiles\Projects\tr_stdplate\A48.DGN PLOT DATE : 01-APRIL-2020 PLOT BY : dotc4c

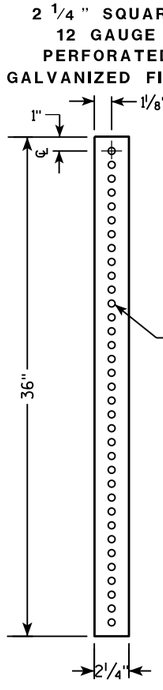
WISDOT/CADDS SHEET 42

7

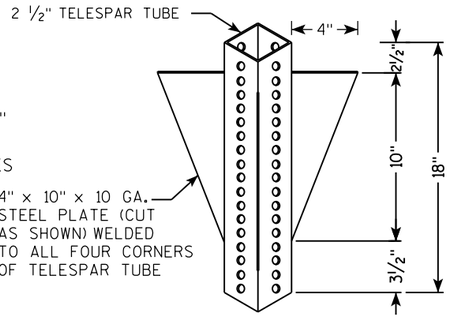
7

TELESCOPIC TUBING ANCHORS
TWO PIECE SYSTEM

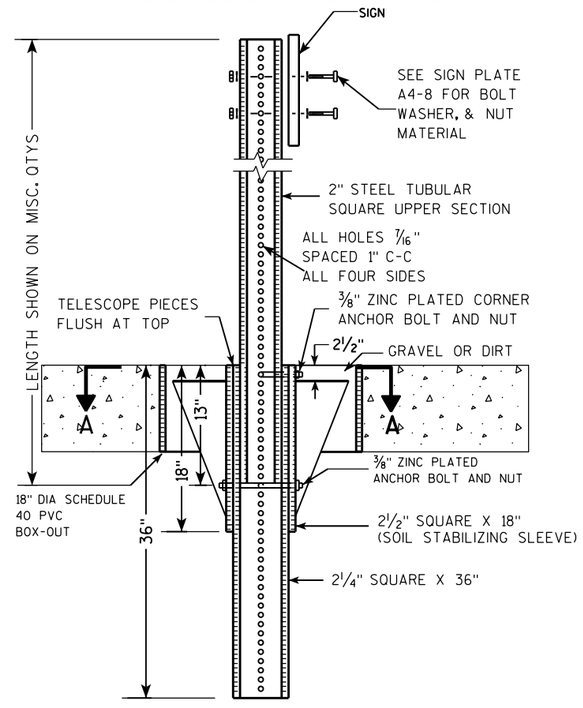
2 1/4 " SQUARE
12 GAUGE
PERFORATED
GALVANIZED FINISH



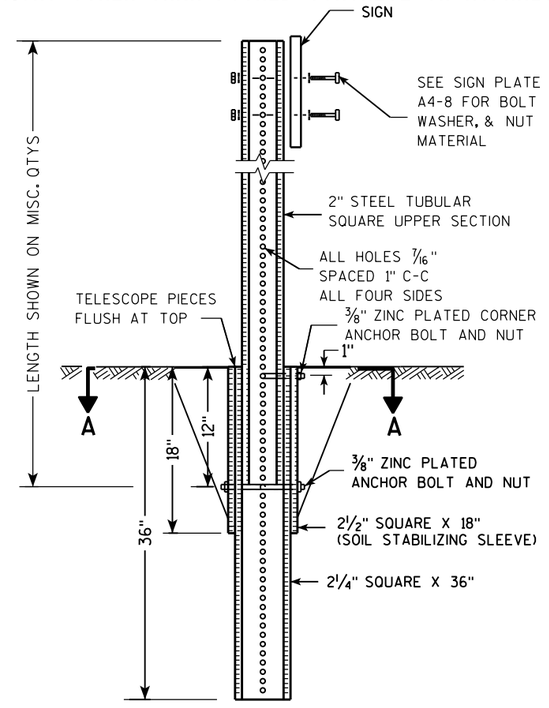
2 1/2 " SQUARE
12 GAUGE
OMNI-DIRECTIONAL
PERFORATED
SOIL STABILIZING SLEEVE
GALVANIZED FINISH

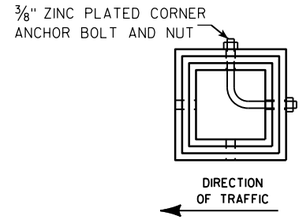


DETAIL OF TUBULAR STEEL SIGN POST
(IN POURED CONCRETE OR ASPHALT)



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).

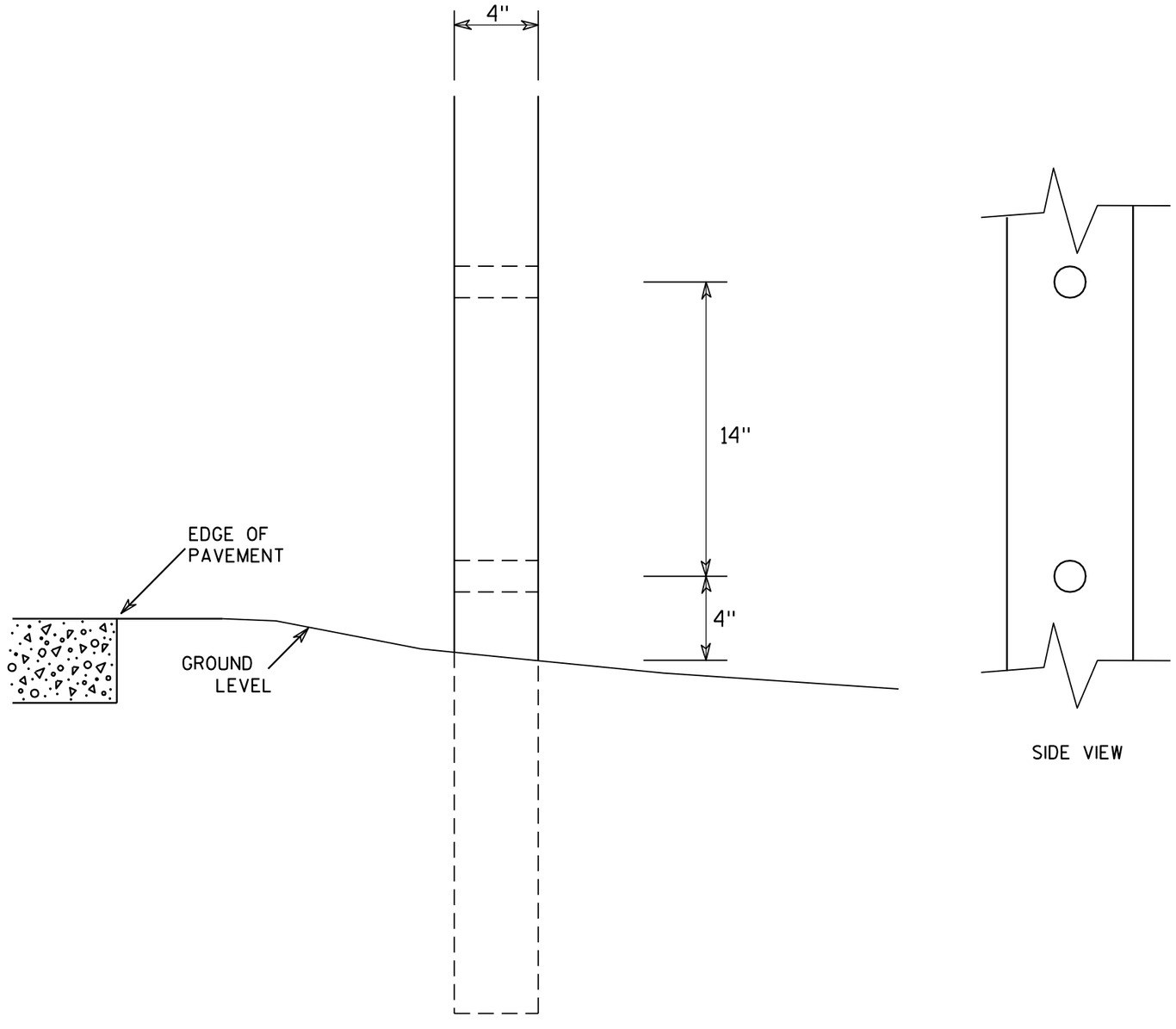
TUBULAR STEEL
SIGN POST
A4-9

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 2/05/15 PLATE 289 A4-9.9

PROJECT NO:	HWY:	COUNTY:		SHEET NO:	E



SIDE VIEW

GENERAL NOTES

1. All 4 x 6 Wood Posts shall be modified by having two 1½" diameter holes drilled perpendicular to the roadway centerline.

7

7

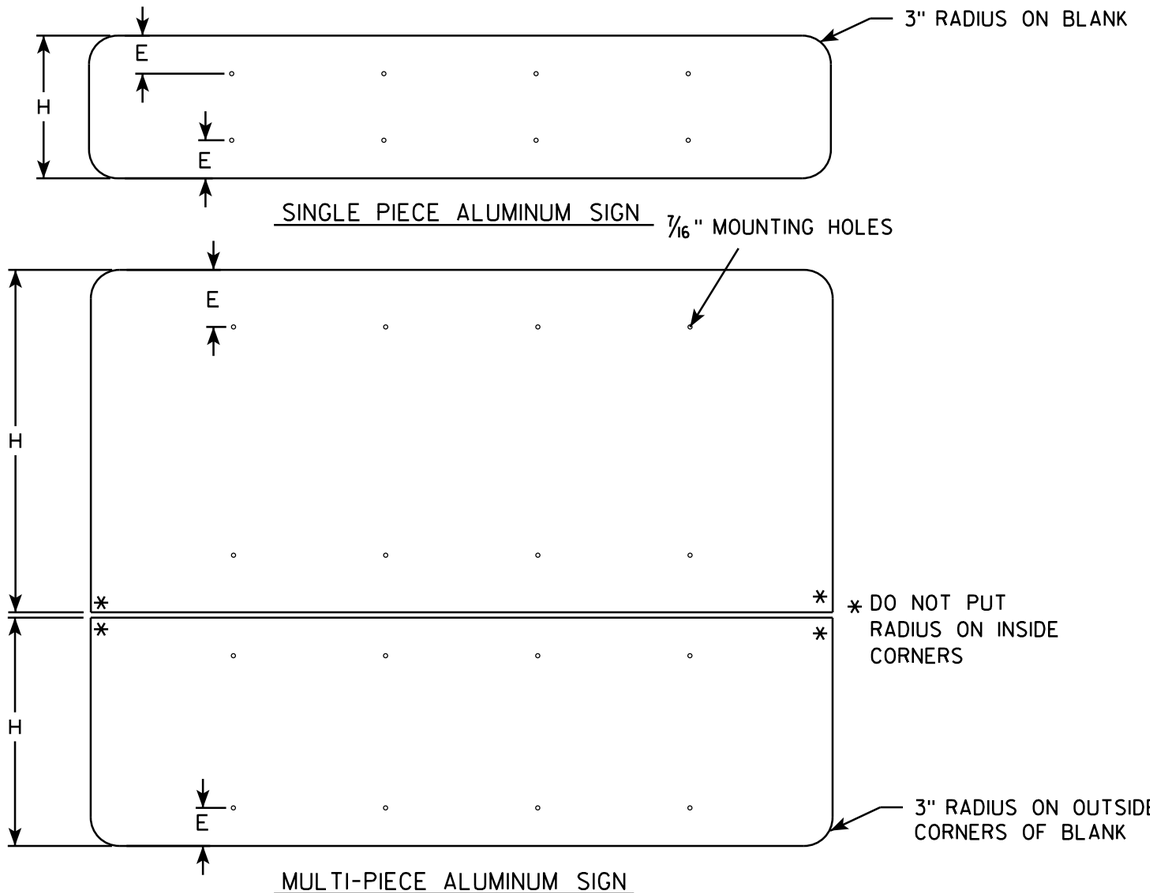
4 X 6 WOOD POST MODIFICATIONS

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Chester J Spang for State Traffic Engineer

DATE 3/27/97 PLATE NO. A4-11.2

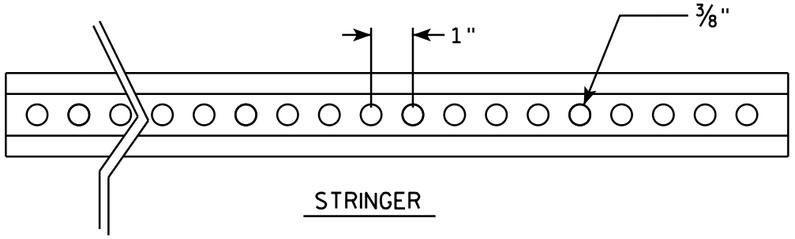
PROJECT NO:	HWY:	COUNTY:		SHEET NO: 290	E



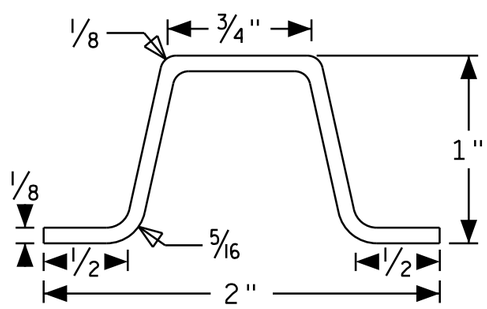
GENERAL NOTES

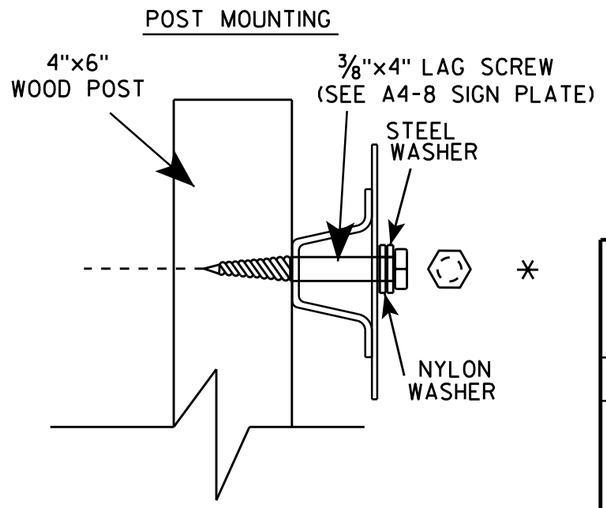
- ALL SIGNS OVER 60" IN WIDTH SHALL HAVE A 3" RADIUS ON THE OUTSIDE CORNERS OF THE ALUMINUM BLANK.
- MOUNTING HOLES SHALL BE 7/16" DIAMETER.
- SEE CHART FOR HOLE SPACING REQUIREMENTS
- FOR SIGN PANELS WITH DIMENSION (H) 36" AND OVER, DIMENSION E SHALL BE 6"
- FOR SIGN PANELS WITH DIMENSION (H) UNDER 36", DIMENSION E SHALL BE 4"
- SIGN STRINGER MATERIAL SHALL CONSIST OF STEEL CHANNEL POST SECTIONS, WEIGHING 1.12 LBS/FT IN ACCORDANCE WITH SECTION 633.2.1 OF THE STANDARD SPECIFICATIONS FOR HIGHWAY AND STRUCTURE CONSTRUCTION.
- SEE SIGN PLATE A4-8 FOR SIGN STRINGER BOLTING REQUIREMENTS.

SIGN WIDTH	STRINGER WIDTH	POSTS	HOLE SPACING	MOUNTING HOLES
78"	72"	2	16"	15" 31" 47" 63"
84"	72"	2	17"	16½" 33½" 50½" 67½"
90"	72"	2	18"	18" 36" 54" 72"
96"	90"	2	19"	19½" 38½" 57½" 76½"
102"	90"	2	20"	21" 41" 61" 81"
108"	90"	2	21"	22½" 43½" 64½" 85½"
114"	108"	3	15"	12" 27" 42" 57" 72" 87" 102"
120"	108"	3	16"	12" 28" 44" 60" 76" 92" 108"
126"	108"	3	17"	12" 29" 46" 63" 80" 97" 114"
132"	126"	3	18"	12" 30" 48" 66" 84" 102" 120"
138"	126"	3	19"	12" 31" 50" 69" 88" 107" 126"
144"	126"	3	20"	12" 32" 52" 72" 92" 112" 132"



STRINGER





SIGN STRINGER MOUNTING REQUIREMENTS

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch

for State Traffic Engineer

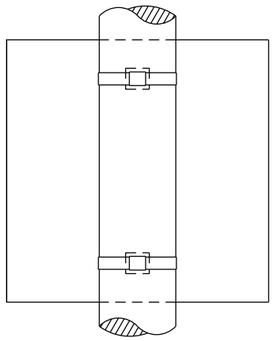
DATE 4/26/16 PLATE NO A4-18.1

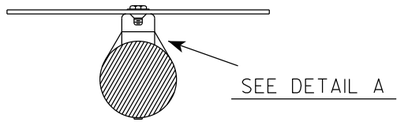
PROJECT NO:	HWY:	COUNTY:		SHEET NO:	E

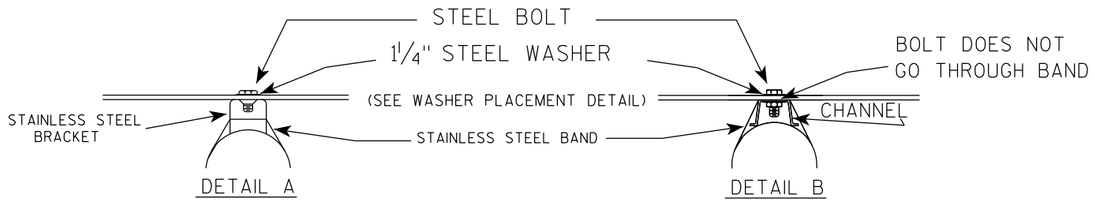
FILE NAME : C:\CAEfiles\Projects\tr_stdplate\A418.dgn PLOT DATE : 27-APR-2016 13:56 PLOT BY : mscj9h PLOT NAME : PLOT SCALE : 41.805205:1.000000 WISDOT/CADDS SHEET 42

BANDING

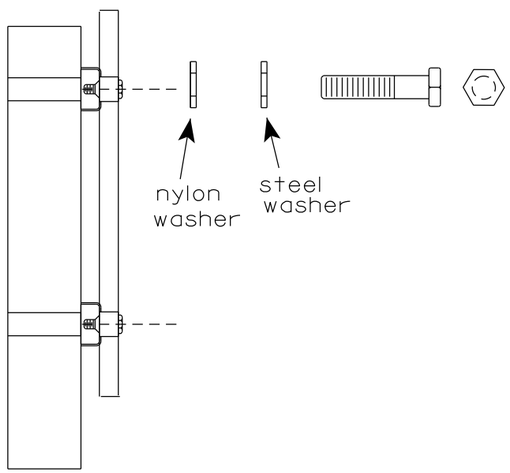
SINGLE SIGN







WASHER PLACEMENT

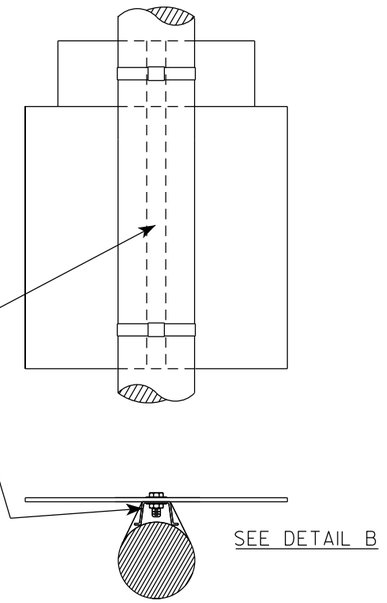


WASHERS (ALL POSTS) -
1-1/4" O.D. X 3/8" I.D. X 1/16" STEEL
1-1/4" O.D. X 3/8" I.D. X .080 NYLON
FOR ALL TYPE H SIGNS

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.
4. ALL SIGN MOUNTING BOLTS AND WASHERS SHALL BE EITHER:
   a. Hot dip or mechanically galvanized in accordance with ASTM Designation: A 153, Class D
   b. Electro-galvanized in accordance with ASTM designation: B 633, Type III, SC 3

"J" ASSEMBLY



STANDARD SIGN
SIGN BANDING DETAILS

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

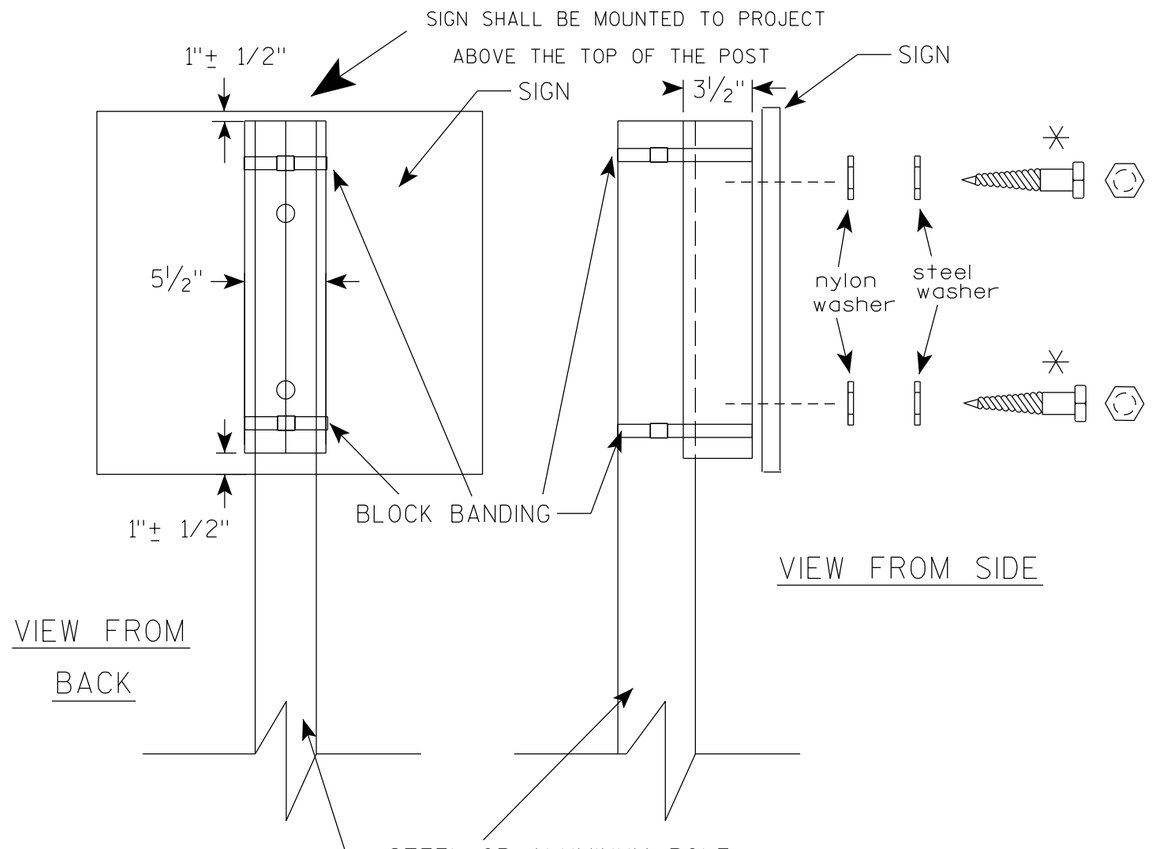
DATE 6/10/19 PLATE NO. A5-9.4

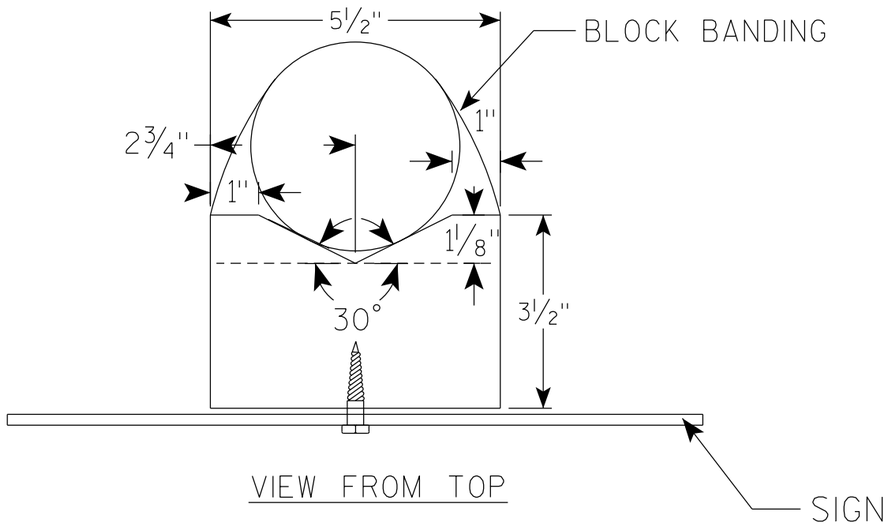
PROJECT NO:	HWY:	COUNTY:		SHEET NO: 292	E

FILE NAME : C:\CAEfiles\Projects\tr_stdplate\A59.dgn PLOT DATE : 10-JUN 2019 4:10 PLOT BY : mscj9h PLOT NAME : PLOT SCALE : $$.....plotscale.....$$ WISDOT/CADDS SHEET 42

7

7





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, 3/4" 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
   b. 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 1 1/4" O.D. X 3/8" I.D. X 1/16"
8. NYLON WASHERS SHALL BE 1 1/4" O.D. X 3/8" I.D. X .080 FOR TYPE H OR TYPE F FACE SIGN

✳ LAG BOLTS SHALL BE 3/8" X 2 1/2"

BLOCK BANDING DETAIL (V-BLOCK OPTION)

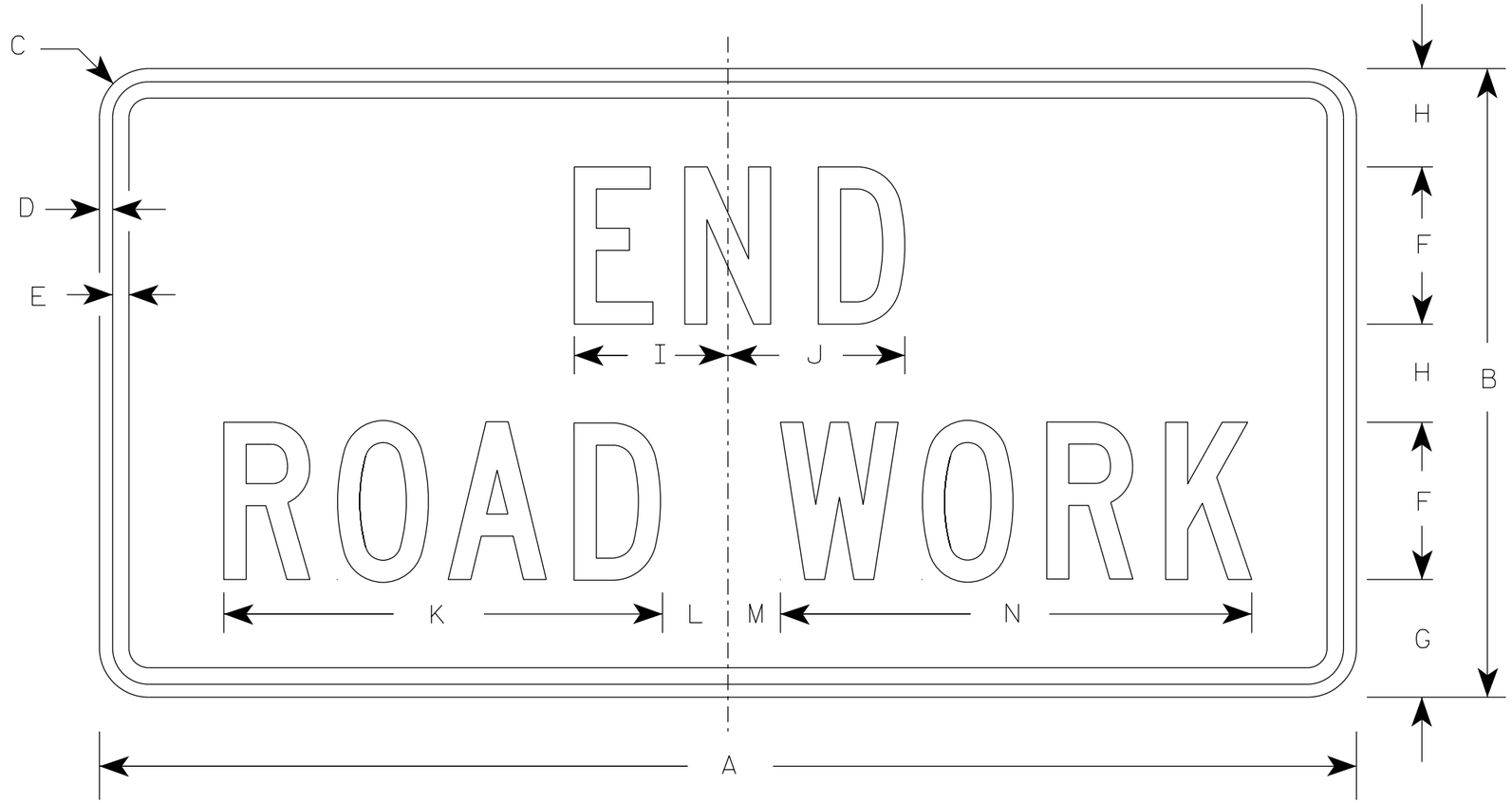
WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 4/19/2022 PLATE NO. A5-10.3

PROJECT NO:

SHEET NO: 293 E



G20-2A

NOTES

1. Sign is Type II - Type F Reflective
2. Color:
   Background - Orange
   Message - Black
3. Message Series - C
4. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1	36	18	1 1/2	3/8	1/2	4	3 3/4	2 1/2	4 1/8	4 1/8	11 1/8	2	1	12 1/8													4.5
2	48	24	1 7/8	1/2	5/8	6	4 1/2	3 3/4	5 7/8	6 3/4	16 3/4	2 1/2	1 3/4	18 1/2													8.0
2M	48	24	1 7/8	1/2	5/8	6	4 1/2	3 3/4	5 7/8	6 3/4	16 3/4	2 1/2	1 3/4	18 1/2													8.0
3	48	24	1 7/8	1/2	5/8	6	4 1/2	3 3/4	5 7/8	6 3/4	16 3/4	2 1/2	1 3/4	18 1/2													8.0
4	48	24	1 7/8	1/2	5/8	6	4 1/2	3 3/4	5 7/8	6 3/4	16 3/4	2 1/2	1 3/4	18 1/2													8.0
5	48	24	1 7/8	1/2	5/8	6	4 1/2	3 3/4	5 7/8	6 3/4	16 3/4	2 1/2	1 3/4	18 1/2													8.0

STANDARD SIGN

G20-2A

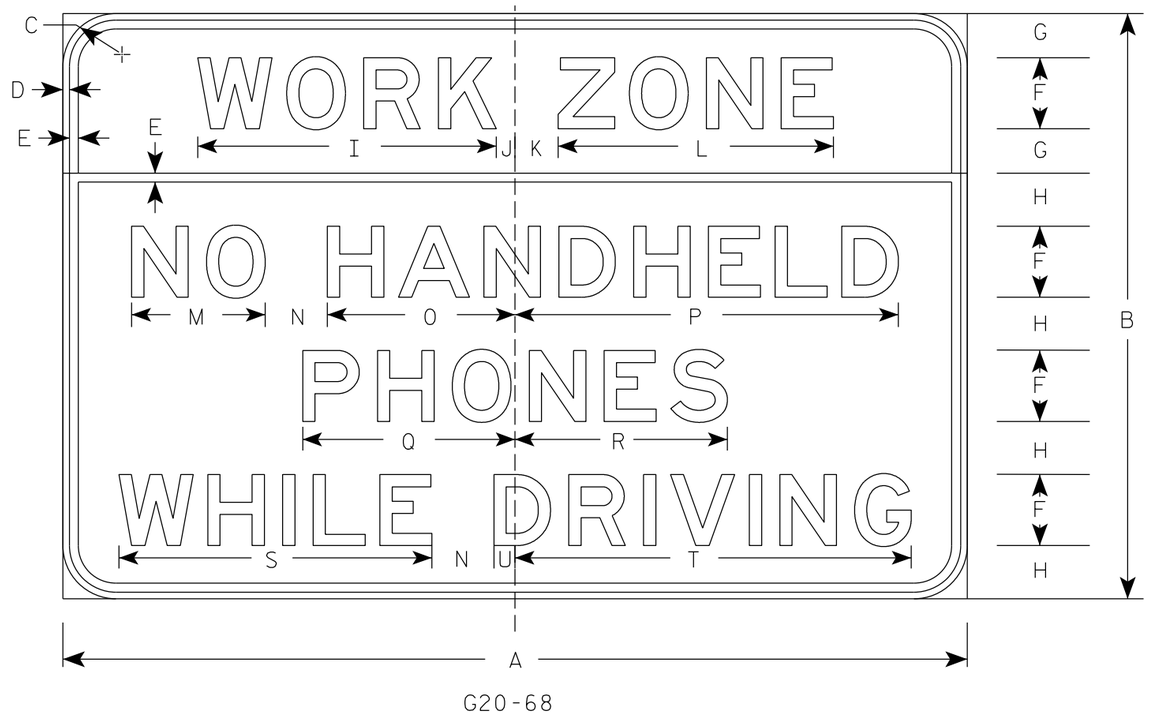
WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 1/26/2023 PLATE NO. G20-2A.10

PROJECT NO: | HWY: | COUNTY: | SHEET NO: E

FILE NAME : C:\CAEfiles\Projects\tr_stdplate\G202A.dgn PLOT DATE : 26-JAN 2023 8:27 PLOT BY : dotc4c PLOT NAME : PLOT SCALE : $$.....plotscale.....$$ WISDOT/CADDS SHEET 42



G20-68

NOTES

1. Sign is Type II- Type H Reflective except as noted.
2. Color:
   Background - White except Work Zone panel is Fluorescent Orange Type F Reflective
   Message - Black
3. Message Series - E
4. Traffic mitigation contract required for signs to be included on project.
5. 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	78	48	3	5/8	3/4	6	3	4 1/2	24 7/8	2 3/8	4 1/4	23	11 1/4	6	15 1/2	32 3/4	18	18	26 1/2	33 7/8	1 3/8						26.0
2M	78	48	3	5/8	3/4	6	3	4 1/2	24 7/8	2 3/8	4 1/4	23	11 1/4	6	15 1/2	32 3/4	18	18	26 1/2	33 7/8	1 3/8						26.0
3	102	66	6	3/4	1	8	5	6	33 5/8	2 1/8	4 7/8	31	15	7	21 1/8	43 1/4	24	24	35 1/4	44 5/8	2 3/8						46.75
4	102	66	6	3/4	1	8	5	6	33 5/8	2 1/8	4 7/8	31	15	7	21 1/8	43 1/4	24	24	35 1/4	44 5/8	2 3/8						46.75
5	102	66	6	3/4	1	8	5	6	33 5/8	2 1/8	4 7/8	31	15	7	21 1/8	43 1/4	24	24	35 1/4	44 5/8	2 3/8						46.75

STANDARD SIGN
G20-68

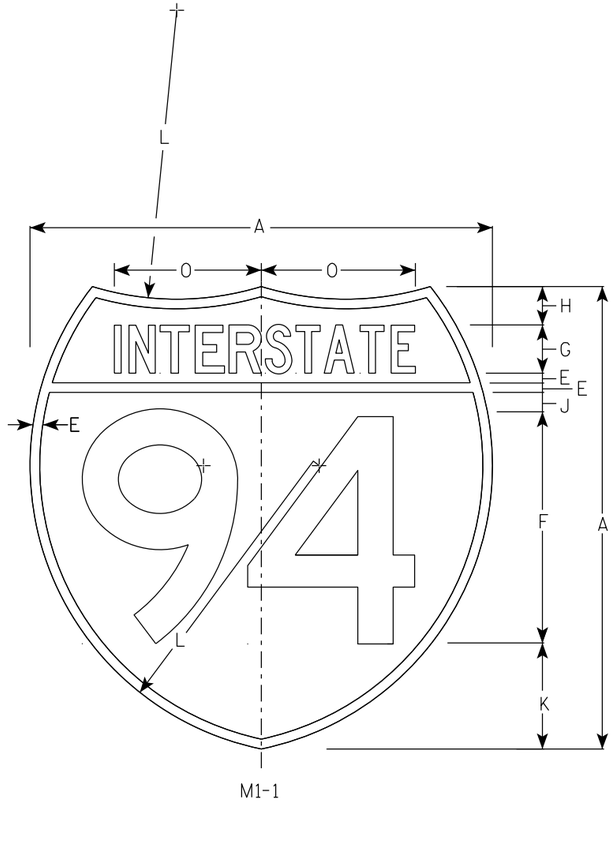
WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

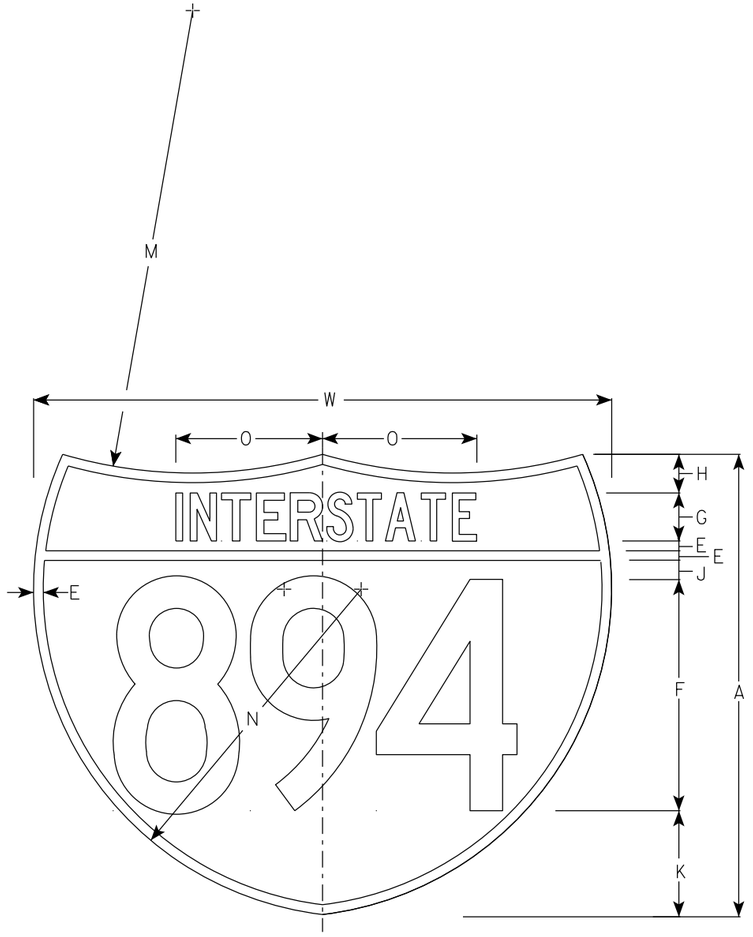
DATE 6/10/19 PLATE NO. G20-68.1

PROJECT NO:

SHEET NO: 295 E



M1-1



M1-1A

NOTES

1. Sign is Type II - Type H Reflective
2. Color:
   Background - Top Red - Bottom Blue
   Message - White
3. Message Series - See note 5
4. Substitute appropriate numerals & ajust spacing as per plate A10-1.
5. M1-1 - Numerals - D
   Interstate - C
   M1-1A - All copy - C

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	M1-1 Area sq. ft.	M1-1A Area sq. ft.
1																											
2	24				1/2	12	2 1/2	2		1	5 1/2	15	24	17	7 7/8								30			3.13	3.91
2M	24				1/2	12	2 1/2	2		1	5 1/2	15	24	17	7 7/8								30			3.13	3.91
3	36				3/4	18	3 3/4	3		1 1/2	8 1/4	22 1/2	36	25 1/2	11 3/4								45			7.03	8.79
4	36				3/4	18	3 3/4	3		1 1/2	8 1/4	22 1/2	36	25 1/2	11 3/4								45			7.03	8.79
5	36				3/4	18	3 3/4	3		1 1/2	8 1/4	22 1/2	36	25 1/2	11 3/4								45			7.03	8.79

INTERSTATE ROUTE MARKER M1-1 FOR ASSEMBLIES

WISCONSIN DEPT OF TRANSPORTATION

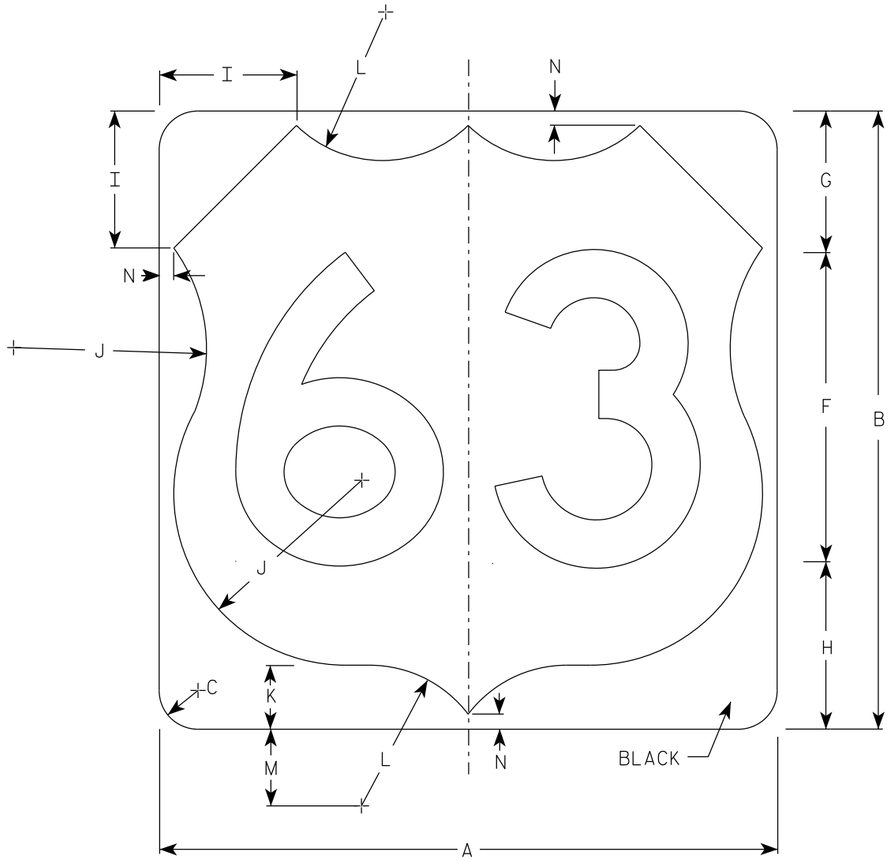
APPROVED Matthew R Rauch
For State Traffic Engineer

DATE 11/7/2022 PLATE NO. M1-1.9

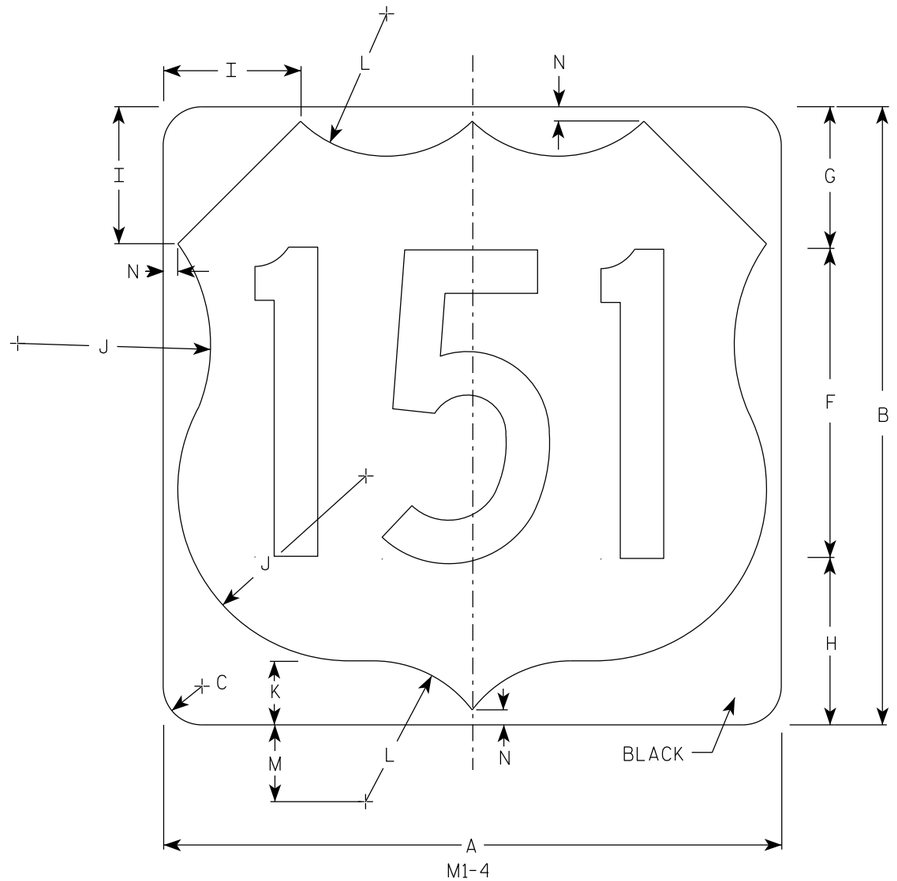
PROJECT NO: | HWY: | COUNTY: | SHEET NO: 296 E

NOTES

1. Sign is Type II - Type H Reflective
2. Color:
   Background - White
   Message - Black
3. Message Series - D except 3 number signs Series C



M1-4



M1-4

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	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
2M	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
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
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
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

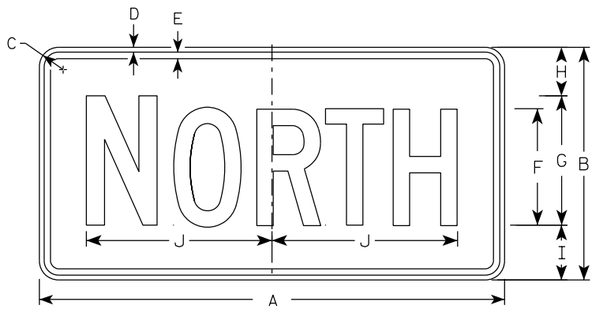
USH MARKER
M1-4 FOR ASSEMBLIES

WISCONSIN DEPT OF TRANSPORTATION

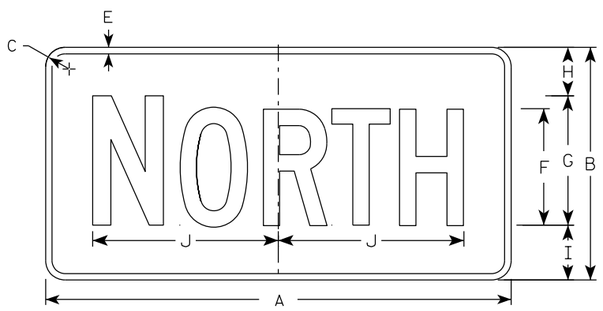
APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 12/20/22 PLATE NO. M1-4.11

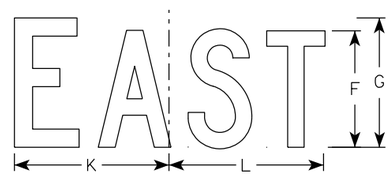
PROJECT NO: | HWY: | COUNTY: | SHEET NO: 297 E



M3-1
MM3-1
MP3-1

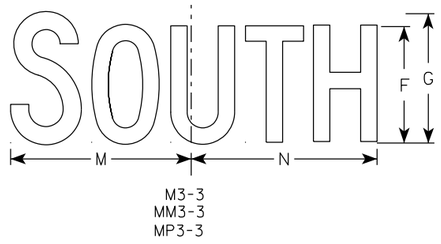


MB3-1
MK3-1
MN3-1

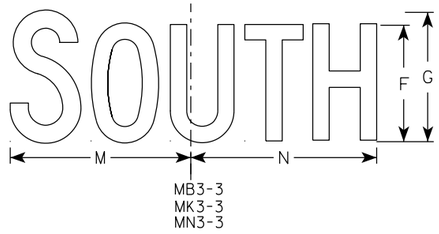


M3-2
MM3-2
MP3-2

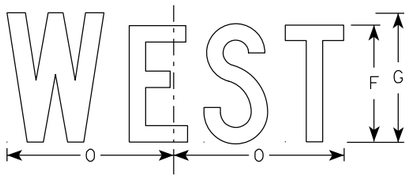
MB3-2
MK3-2
MN3-2



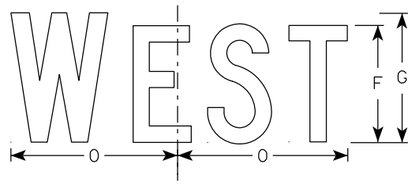
M3-3
MM3-3
MP3-3



MB3-3
MK3-3
MN3-3



M3-4
MM3-4
MP3-4



MB3-4
MK3-4
MN3-4

NOTES

1. All Signs Type II - Type H Reflective
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																											
2S	24	12	1 1/2	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												2.00
2M	24	12	1 1/2	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												2.00
3	36	18	1 1/2	3/8	1/2	9	10	3 3/4	4 1/4	14 3/8	12	12 1/8	14	14 1/8	13												4.5
4	36	18	1 1/2	3/8	1/2	9	10	3 3/4	4 1/4	14 3/8	12	12 1/8	14	14 1/8	13												4.5
5	36	18	1 1/2	3/8	1/2	9	10	3 3/4	4 1/4	14 3/8	12	12 1/8	14	14 1/8	13												4.5

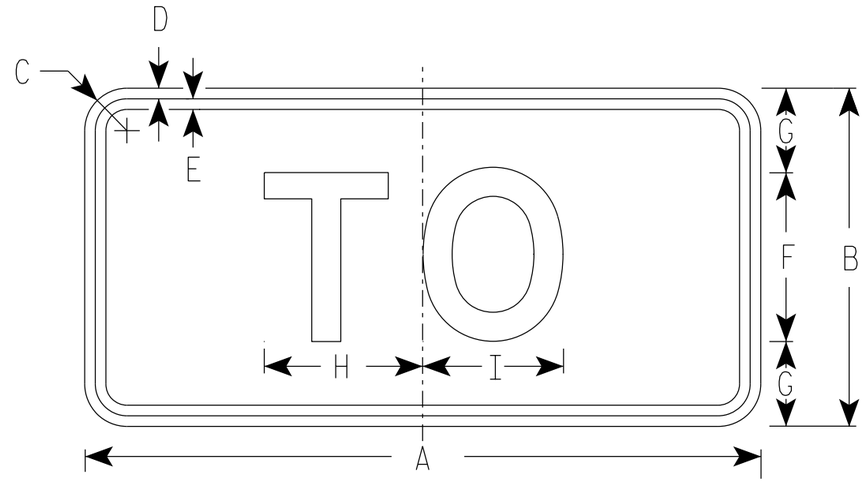
STANDARD SIGNS
M3-1 THRU M3-4
SERIES

WISCONSIN DEPT OF TRANSPORTATION

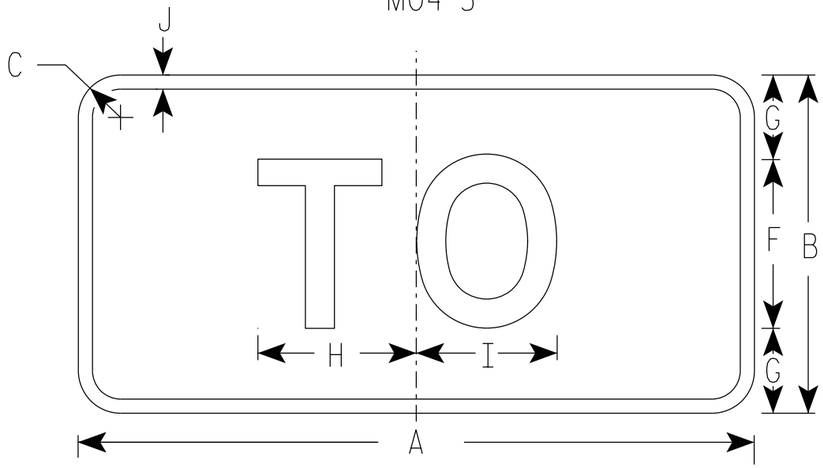
APPROVED Matthew R Rauch
For State Traffic Engineer

DATE 2/8/2023 PLATE NO. M3-1.15

PROJECT NO: | HWY: | COUNTY: | SHEET NO: 298 | E



M4-5
MM4-5
MP4-5
M04-5



MB4-5
MK4-5
MN4-5

NOTES

1. Sign is Type II - Type H Reflective
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
   M04-5 Background - Orange Type F Reflective
   Message - Black

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 ½	⅜	⅜	6	3	5 ⅜	5 ¼	½																	2.00
2M	24	12	1 ½	⅜	⅜	6	3	5 ⅜	5 ¼	½																	2.00
3	36	18	1 ½	⅜	½	9	4 ½	8 ¼	8 ⅜	½																	4.5
4	36	18	1 ½	⅜	½	9	4 ½	8 ¼	8 ⅜	½																	4.5
5	36	18	1 ½	⅜	½	9	4 ½	8 ¼	8 ⅜	½																	4.5

STANDARD SIGN
M4-5

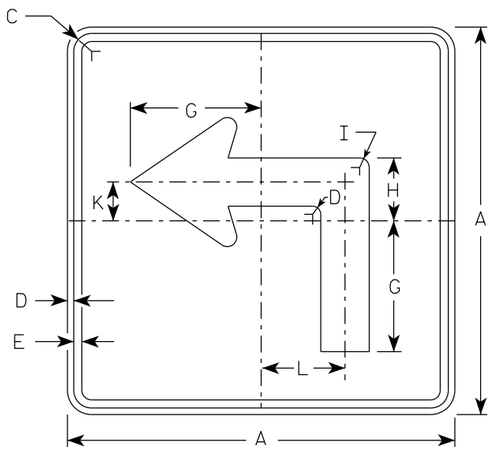
WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

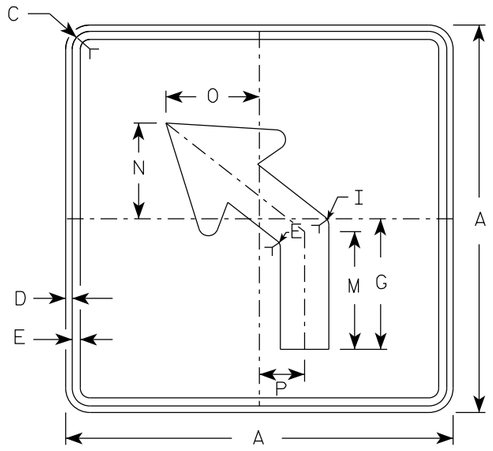
DATE 2/8/2023 PLATE NO. M4-5.11

PROJECT NO: | HWY: | COUNTY: | SHEET NO: 299 E

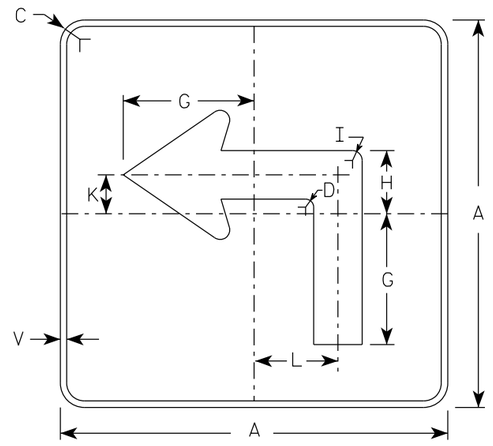
7



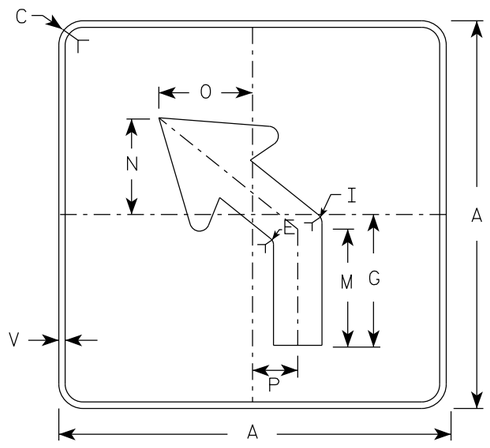
M5-1L
MM5-1L
MO5-1L
MP5-1L



M5-2L
MM5-2L
MO5-2L
MP5-2L



MB5-1L
MK5-1L
MN5-1L
MR5-1L

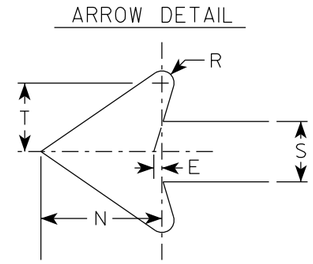


MB5-2L
MK5-2L
MN5-2L
MR5-2L

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
   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.

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	21		1 1/2	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		1/2					3.06
2M	21		1 1/2	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		1/2					3.06
3	30		1 7/8	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		1/2					6.25
4	30		1 7/8	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		1/2					6.25
5	30		1 7/8	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		1/2					6.25

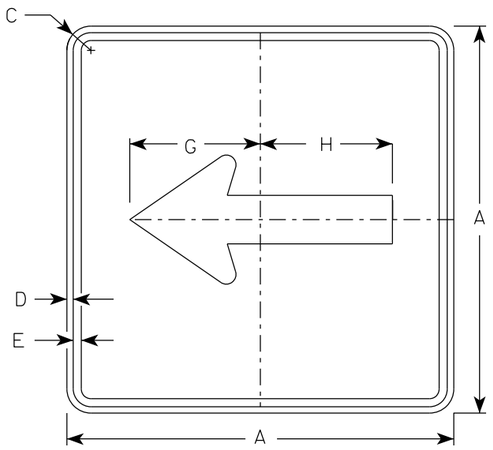
STANDARD SIGN
M5-1 & M5-2

WISCONSIN DEPT OF TRANSPORTATION

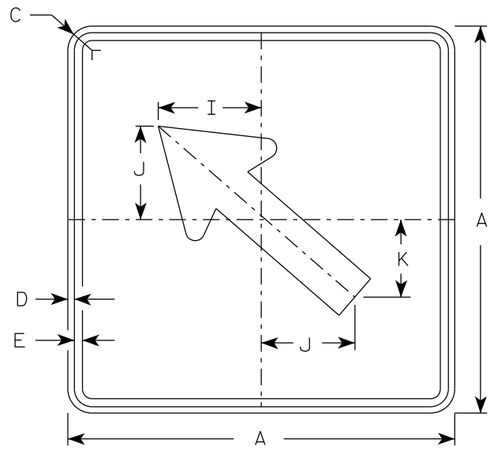
APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 2/13/2023 PLATE NO. M5-1.15

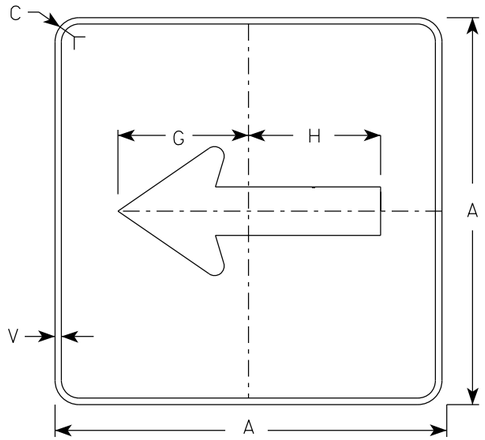
PROJECT NO: | HWY: | COUNTY: | SHEET NO: 300 | E



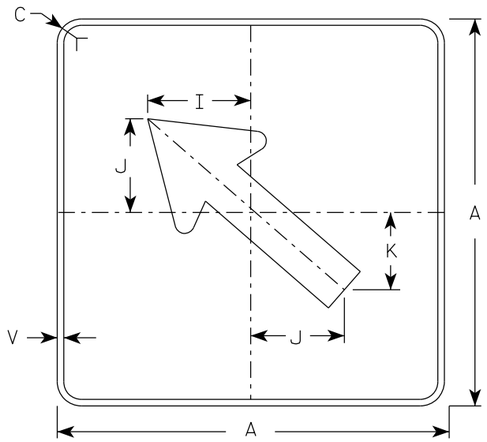
M6-1
MM6-1
MO6-1
MP6-1



M6-2
MM6-2
MO6-2
MP6-2



MB6-1
MK6-1
MN6-1
MR6-1

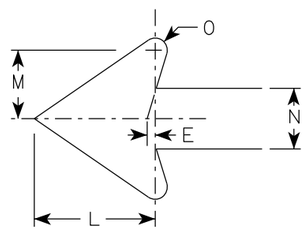


MB6-2
MK6-2
MN6-2
MR6-2

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. M6-1 and M6-2 Background - White
   Message - Black
   MB6-1 and MB6-2 Background - Blue
   Message - White
   MK6-1 and MK6-2 Background - Green
   Message - White
   MM6-1 and MM6-2 Background - White
   Message - Green
   MN6-1 and MN6-2 Background - Brown
   Message - White
   MO6-1 and MO6-2 Background - Orange - Type F Reflective
   Message - Black
   MP6-1 and MP6-2 Background - White
   Message - Blue
   MR6-1 and MR6-2 Background - Brown
   Message - Yellow

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	21		1 1/2	3/8	3/8		7 1/2	7 1/8	5 5/8	5	4 1/4	5 1/4	3	2 5/8	1/2							1/2					3.06
2M	21		1 1/2	3/8	3/8		7 1/2	7 1/8	5 5/8	5	4 1/4	5 1/4	3	2 5/8	1/2							1/2					3.06
3	30		1 7/8	1/2	5/8		10 3/4	10 1/4	8	7 1/4	6	7 1/2	4 1/4	3 3/4	3/4							1/2					6.25
4	30		1 7/8	1/2	5/8		10 3/4	10 1/4	8	7 1/4	6	7 1/2	4 1/4	3 3/4	3/4							1/2					6.25
5	30		1 7/8	1/2	5/8		10 3/4	10 1/4	8	7 1/4	6	7 1/2	4 1/4	3 3/4	3/4							1/2					6.25

STANDARD SIGN
M6-1 & M6-2
SERIES

WISCONSIN DEPT OF TRANSPORTATION

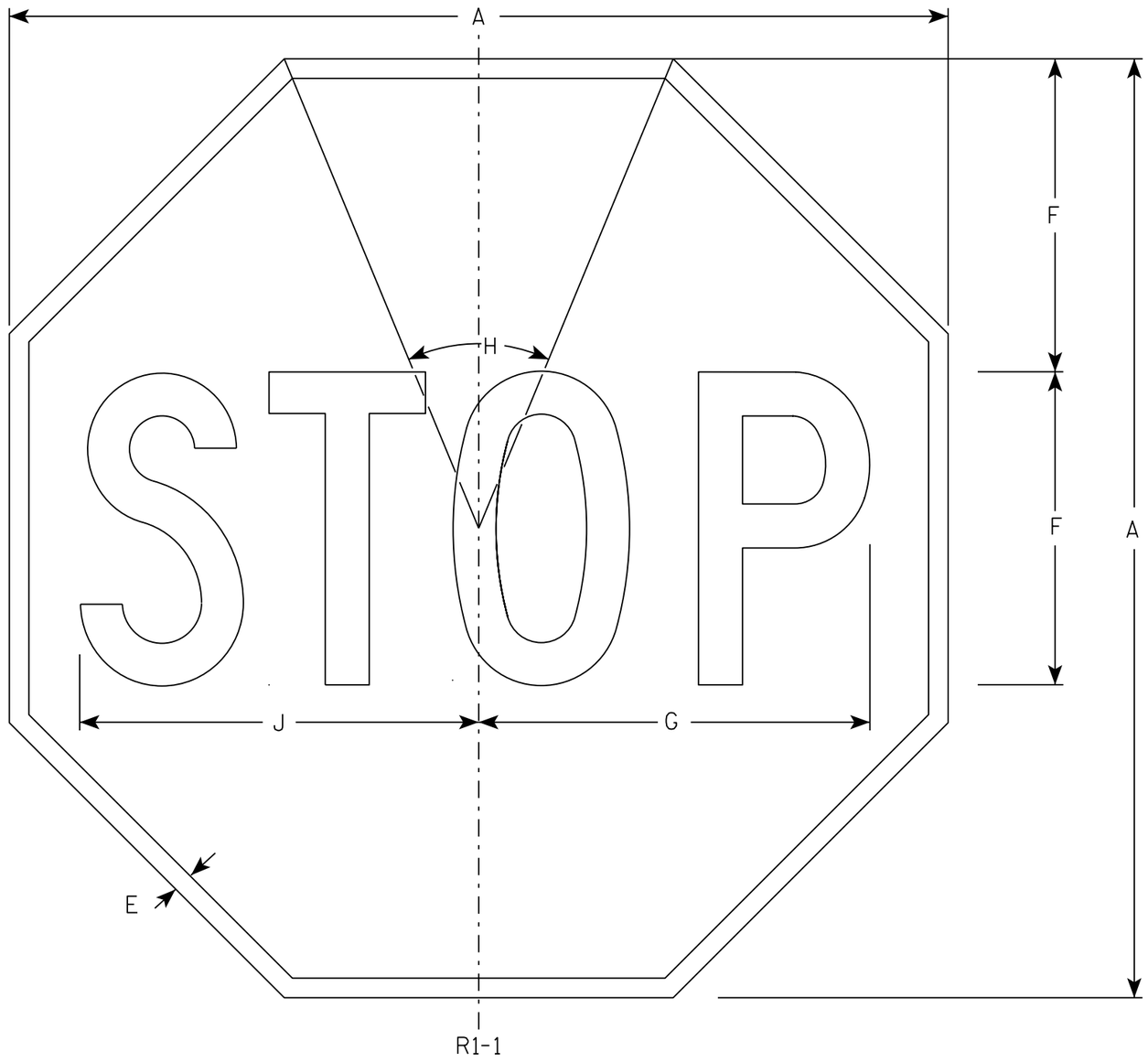
APPROVED Matthew R Rauch
For State Traffic Engineer

DATE 2/13/2023 PLATE NO. M6-1.16

PROJECT NO: | HWY: | COUNTY: | SHEET NO: 301 | E

7

7



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

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				5/8	10	12 1/2	45°		12 3/4																	5.18
2S	30				5/8	10	12 1/2	45°		12 3/4																	5.18
2M	36				3/4	12	15	45°		15 3/8																	7.46
3	36				3/4	12	15	45°		15 3/8																	7.46
4	48				1	16	20	45°		20 1/2																	13.25
5	48				1	16	20	45°		20 1/2																	13.25
6	18				3/8	6	7 3/4	45°		7 3/4																	1.86
7	12				1/4	4	5	45°		5 1/8																	0.78

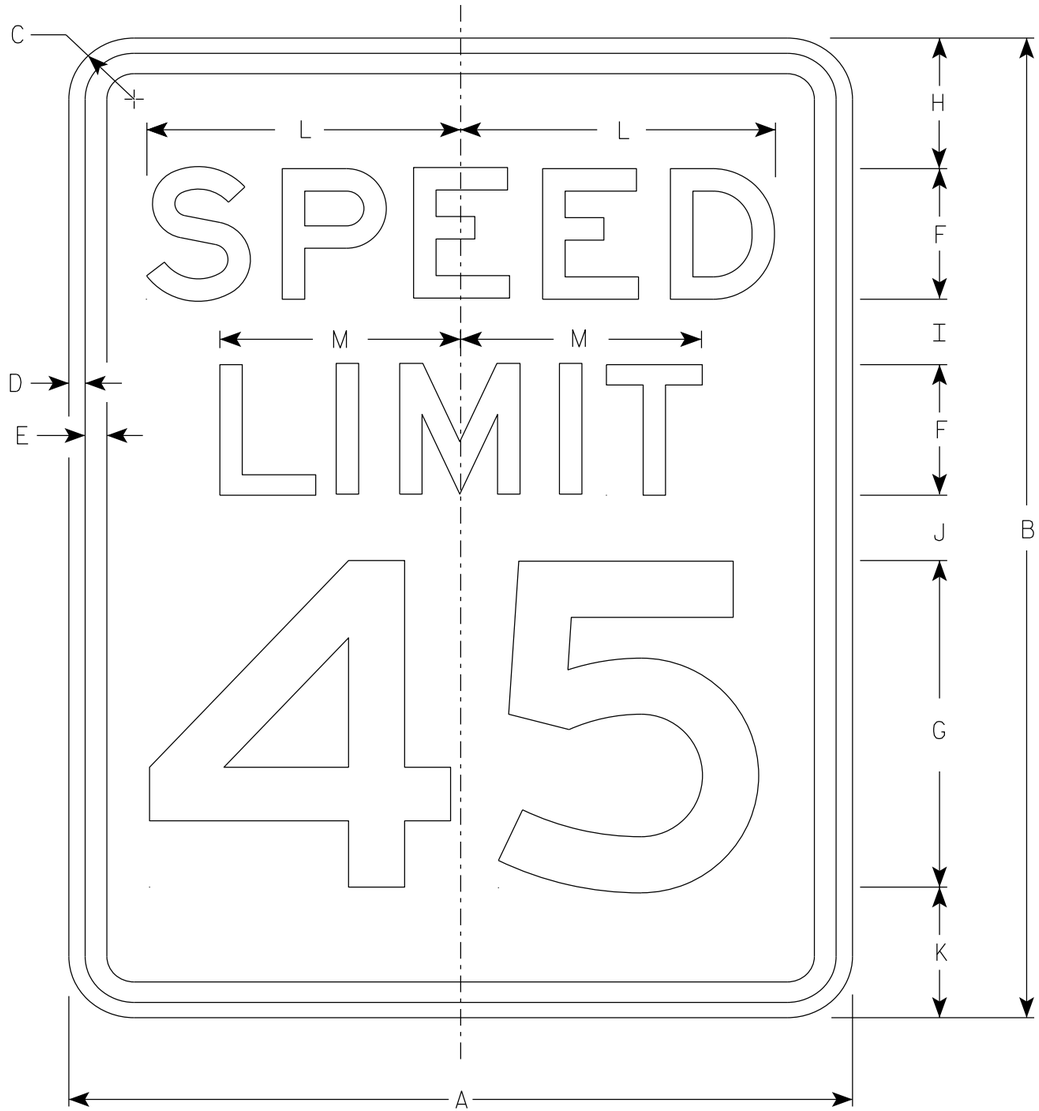
STANDARD SIGN
R1-1

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 11/12/15 PLATE NO. R1-1.13

PROJECT NO:	HWY:	COUNTY:		SHEET NO: 302	E



R2-1

NOTES

1. Sign is Type II - Type H Reflective
2. Color:
   Background - White
   Message - Black
3. Message Series - E
4. 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 1/2	3/8	1/2	3	8	3	2	2	3	7 1/4	5 1/2														3.0
2S	24	30	1 1/2	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 7/8	1/2	5/8	5	12	5	2 1/2	2 1/2	4	12	9 1/4														7.5
3	36	48	1 7/8	1/2	5/8	6	14	6	5	5	6	14 3/8	11														12.0
4	36	48	1 7/8	1/2	5/8	6	14	6	5	5	6	14 3/8	11														12.0
5	48	60	3	3/4	1	8	20	6	4 1/2	6 3/4	6 3/4	19 1/4	14 5/8														20.0

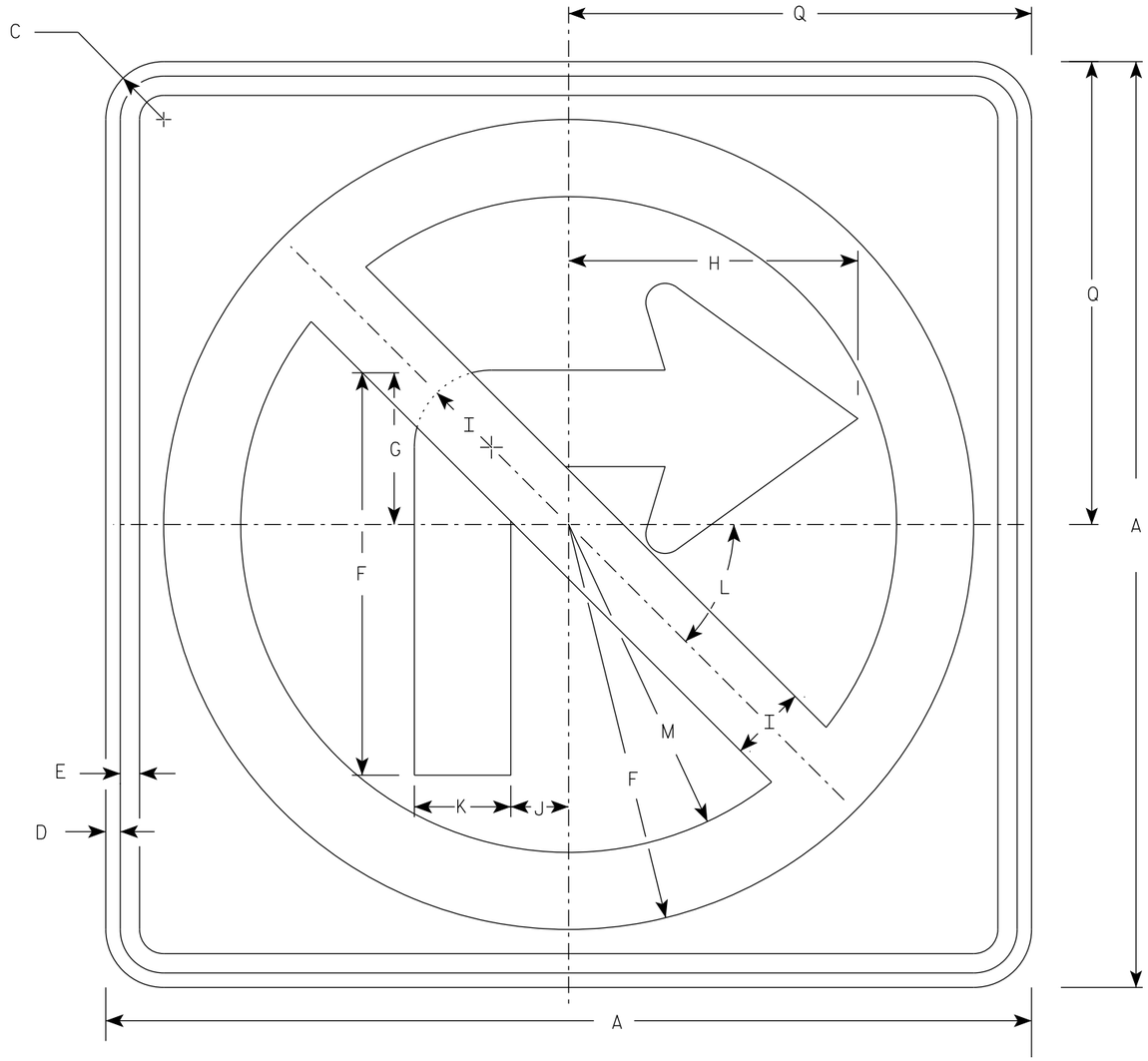
STANDARD SIGN
R2-1

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 2/1/23 PLATE NO. R2-1.14

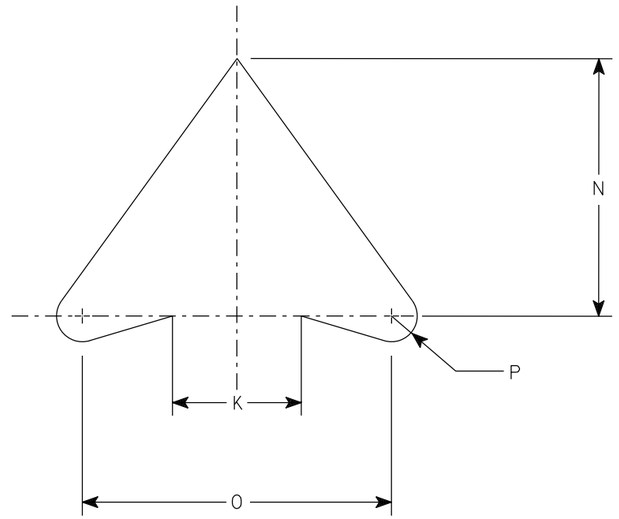
PROJECT NO: | HWY: | COUNTY: | SHEET NO: 303 | E



R3-1

NOTES

1. Sign is Type II - Type H Reflective
2. Color:
   Background - White
   Message - See note 3
3. Border & Arrow are non reflective black, the circle with diagonal bar is reflective red.



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	24		1 1/2	3/8	1/2	10 1/2	4	7 1/2	2	1 1/2	2 1/2	45	8 1/2	5	6	1/2	12										4.0
2S	24		1 1/2	3/8	1/2	10 1/2	4	7 1/2	2	1 1/2	2 1/2	45°	8 1/2	5	6	1/2	12										4.0
2M	36		2 1/4	5/8	3/4	15 3/4	6	11 1/4	3	2 1/4	3 3/4	45	12 3/4	7 1/2	9	3/4	18										9.0
3	36		2 1/4	5/8	3/4	15 3/4	6	11 1/4	3	2 1/4	3 3/4	45	12 3/4	7 1/2	9	3/4	18										9.0
4	36		2 1/4	5/8	3/4	15 3/4	6	11 1/4	3	2 1/4	3 3/4	45°	12 3/4	7 1/2	9	3/4	18										9.0
5	48		2 1/4	3/4	1	21	8	15	4	3	5	45°	17	10	12	1	24										16.0

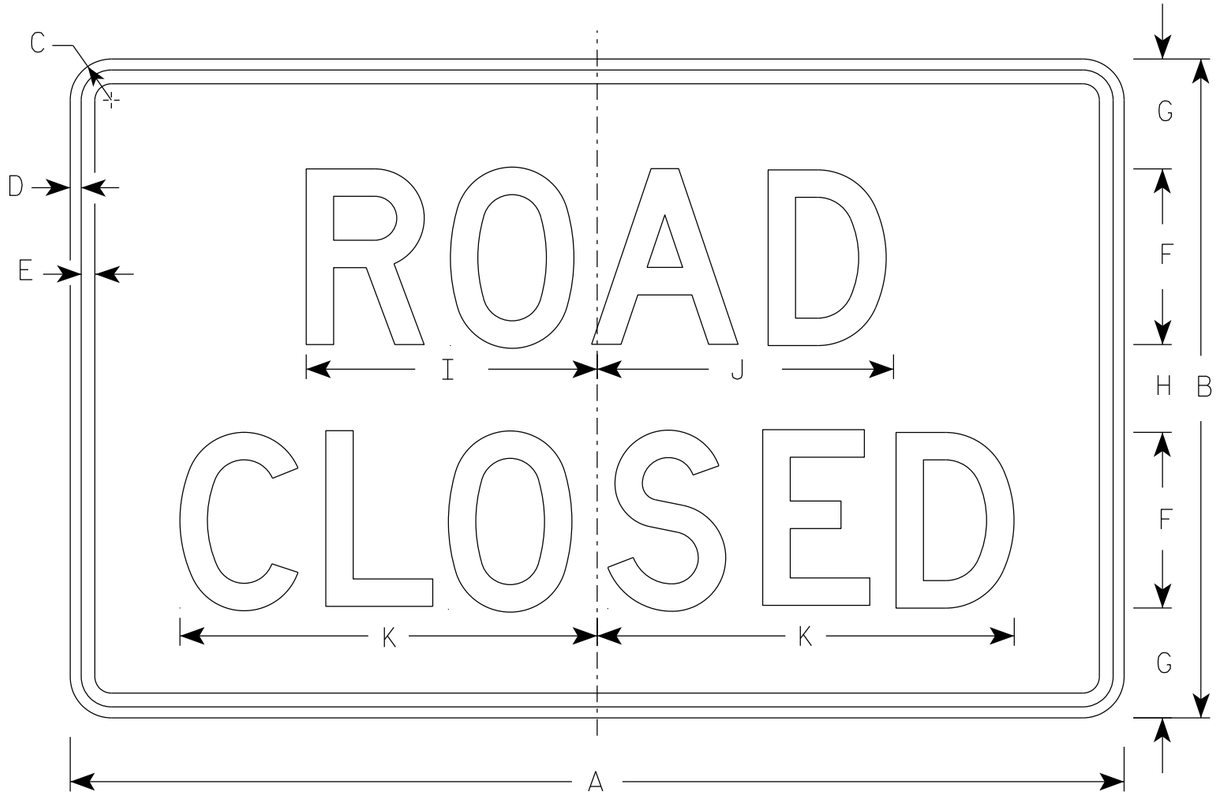
STANDARD SIGN
R3-1

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 2/2/23 PLATE NO. R3-1.6

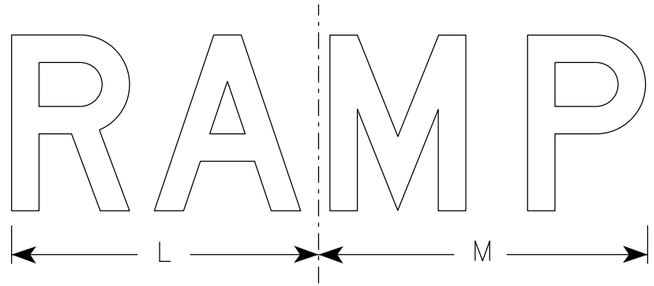
PROJECT NO: | HWY: | COUNTY: | SHEET NO: 304 | E



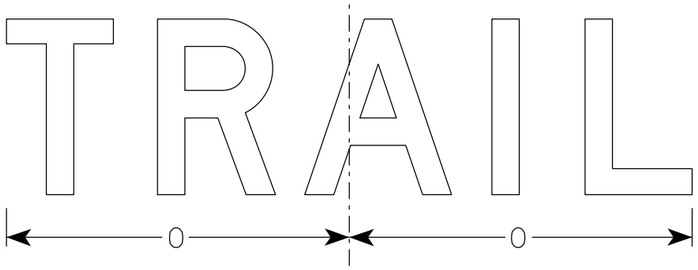
R11-2

NOTES

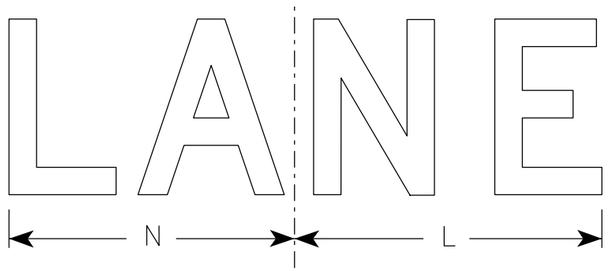
1. Sign is Type II - Type H Reflective
2. Color:
   Background - White
   Message - Black
3. Message Series - D
4. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.
5. Modify the message as required.



R11-2R



R11-2T



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 7/8	1/2	5/8	8	5	4	13 1/4	13 1/2	19	14	15	13	15 5/8												10.0
2M	48	30	1 7/8	1/2	5/8	8	5	4	13 1/4	13 1/2	19	14	15	13	15 5/8												10.0
3	48	30	1 7/8	1/2	5/8	8	5	4	13 1/4	13 1/2	19	14	15	13	15 5/8												10.0
4	48	30	1 7/8	1/2	5/8	8	5	4	13 1/4	13 1/2	19	14	15	13	15 5/8												10.0
5	48	30	1 7/8	1/2	5/8	8	5	4	13 1/4	13 1/2	19	14	15	13	15 5/8												10.0

STANDARD SIGN
R11-2

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 2/5/24 PLATE NO. R11-2.12

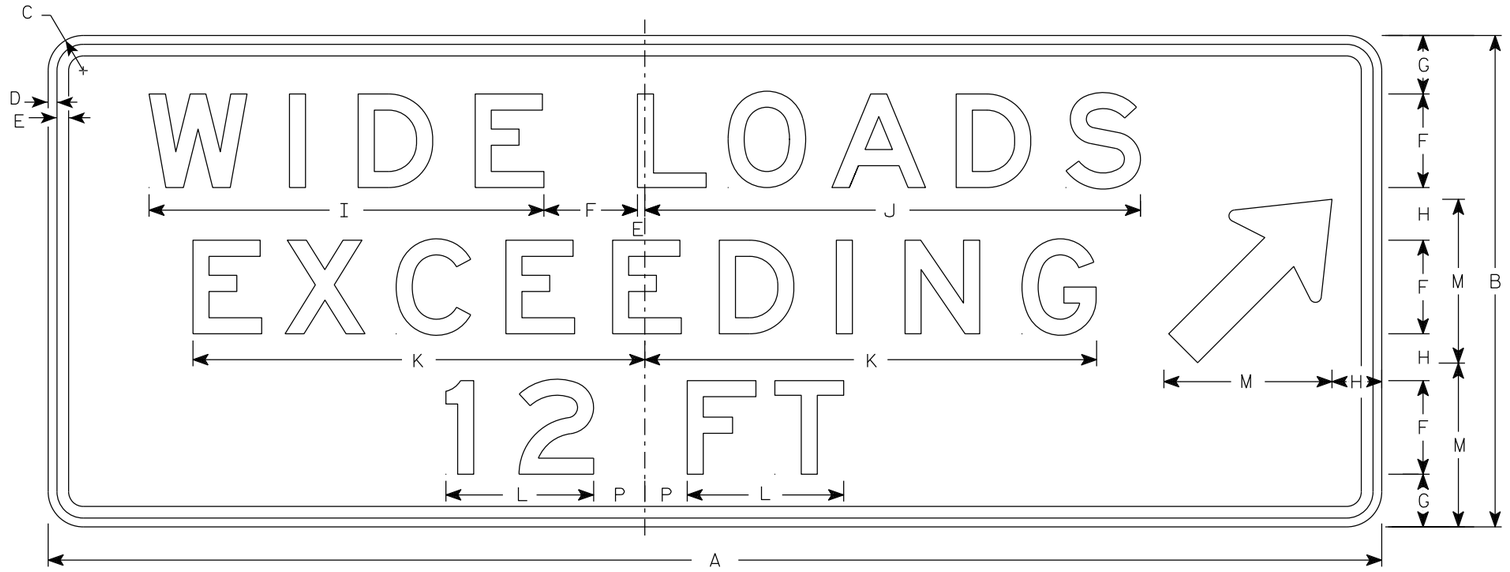
PROJECT NO:	HWY:	COUNTY:		SHEET NO:	E

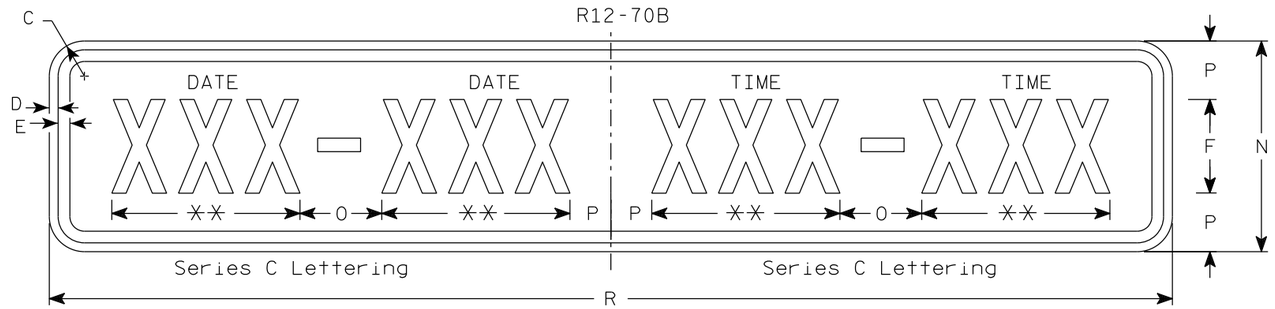
FILE NAME : C:\Users\PROJECTS\tr_stdplate\R112.dgn PLOT DATE : 5-FEB 2024 2:10 PLOT BY : mscj9h PLOT NAME : PLOT SCALE : $$.....plotscale.....$$ WISDOT/CADDS SHEET 42

NOTES

1. Sign is Type II - Type H Reflective
2. Color:
   Background - White
   Message - Black
3. Message Series - E except as noted
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.

** Substitute appropriate message, optically center message





R12-70C

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	R12-70 Area sq. ft.	R12-70C Area sq. ft.
1																												
2S	90	36	3	1/2	5/8	6	4	5	20 7/8	28 3/8	24 5/8	8 1/8	12	12	6	3		66									22.5	5.5
2M	90	36	3	1/2	5/8	6	4	5	20 7/8	28 3/8	24 5/8	8 1/8	12	12	6	3		66									22.5	5.5
3	90	36	3	1/2	5/8	6	4	5	20 7/8	28 3/8	24 5/8	8 1/8	12	12	6	3		66									22.5	5.5
4	114	42	3	3/4	1	8	5	4	34	42	39	13	14	18	7	3 1/2		96									36.75	12.0
5	114	42	3	3/4	1	8	5	4	34	42	39	13	14	18	7	3 1/2		96									36.75	12.0

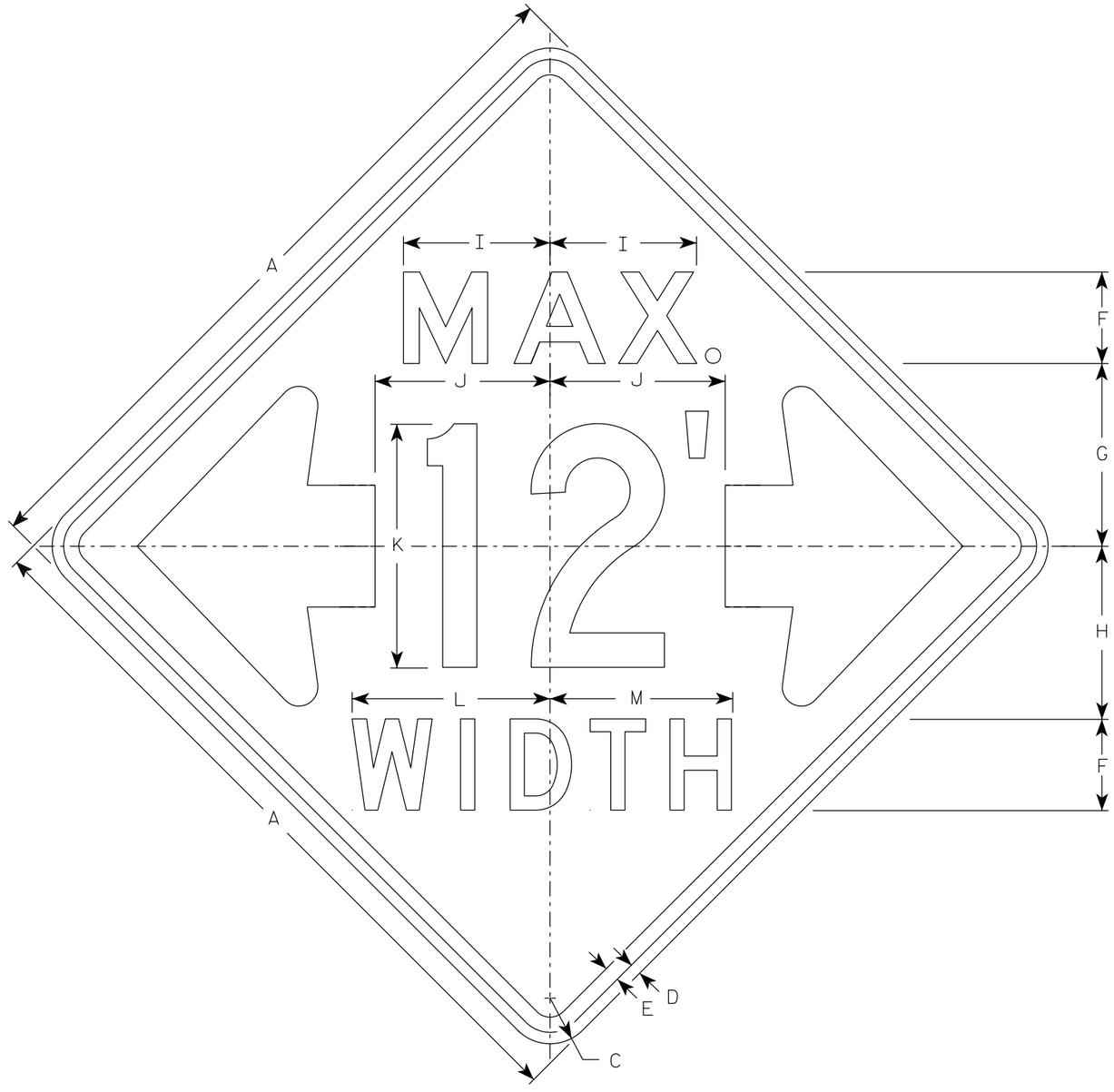
TYPICAL SIGN
R12-70B

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 2/9/24 PLATE NO. R12-70B.4

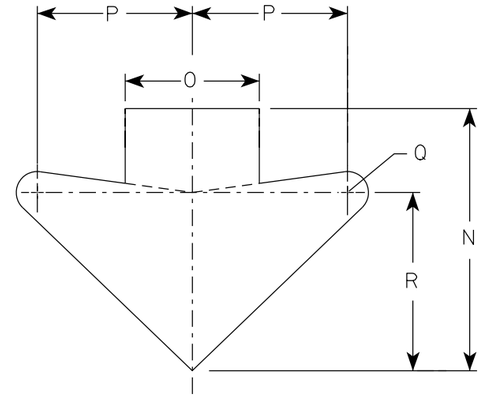
PROJECT NO: | HWY: | COUNTY: | SHEET NO: 306 | E



W12-52

NOTES

1. Sign is Type II - Type F Reflective
2. Color:
   Background - Orange
   Message - Black
3. Message Series - See note 5
4. The top line is series E, the numerals are series C, and the bottom line is series D.
5. Substitute appropriate numerals and adjust spacing as required.



ARROW DETAIL

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1																											
2S	48		3	¾	1	6	12	11 ⅜	9 ⅝	11 ½	16	13	12	15 ⅝	8	9 ¼	1 ¼	10 ⅝									16.0
2M	48		3	¾	1	6	12	11 ⅜	9 ⅝	11 ½	16	13	12	15 ⅝	8	9 ¼	1 ¼	10 ⅝									16.0
3																											
4																											
5																											

STANDARD SIGN
W12-52

WISCONSIN DEPT OF TRANSPORTATION

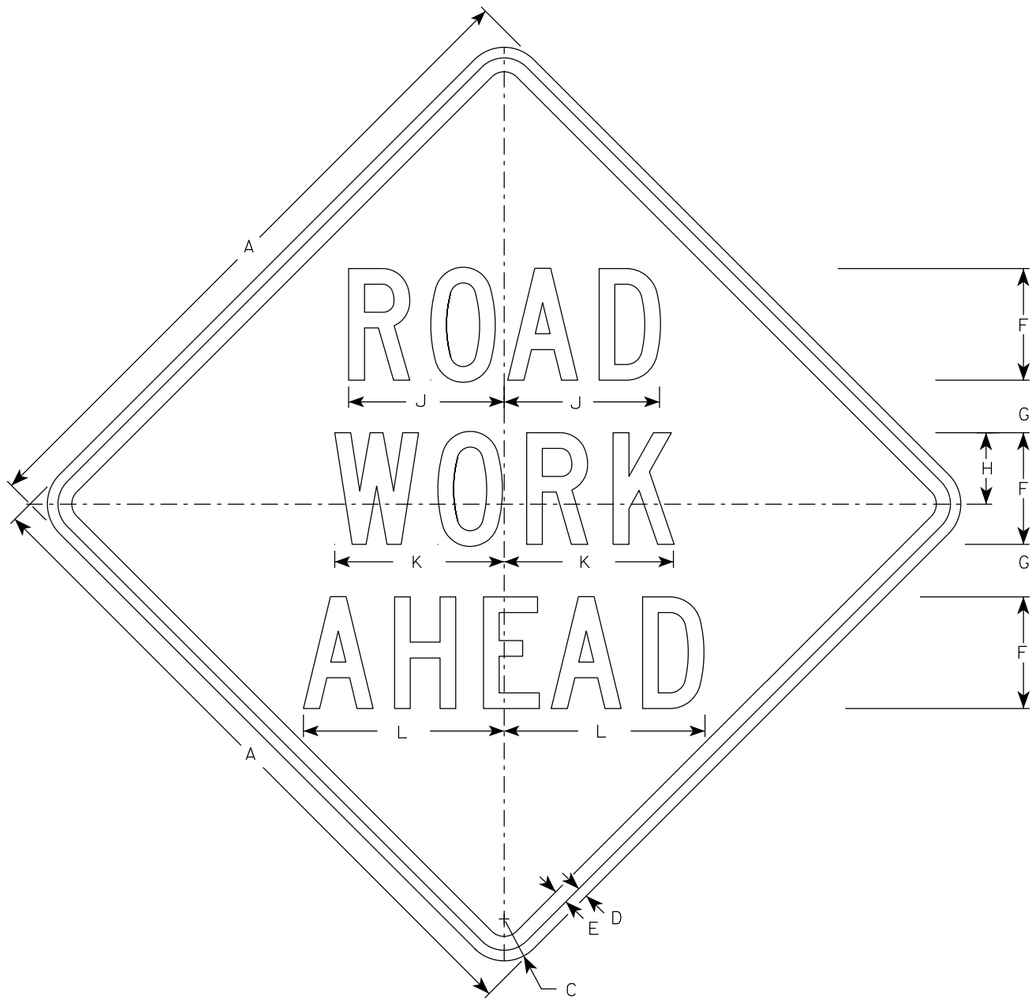
APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 3/10/2024 PLATE NO. W12-52.8

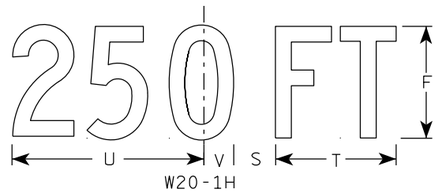
PROJECT NO: | HWY: | COUNTY: | SHEET NO: 307 E

NOTES

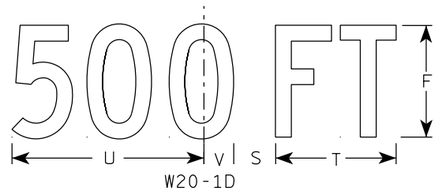
1. Sign is Type II - Type F Reflective
2. Color:
   Background - Orange
   Message - Black
3. Message Series - C
4. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.



W20-1A

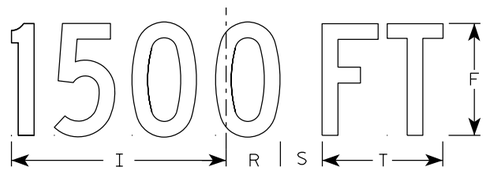


W20-1H

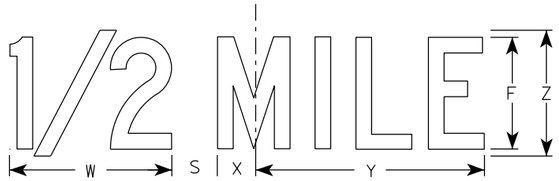


W20-1D

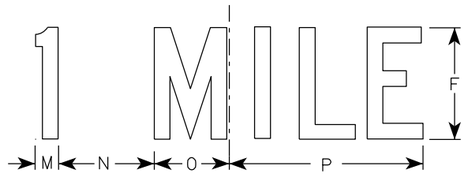
W20-1C



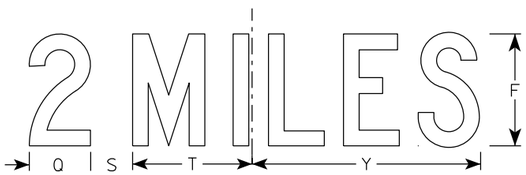
W20-1B



W20-1G



W20-1F



W20-1E

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		2 1/4	5/8	3/4	5	2 5/8	3 1/4	10 1/8	7	7 5/8	8 7/8	1 1/8	4 1/2	3 1/2	9	3 1/4	2 1/2	2 1/4	5 5/8	9	1 3/8	8	1 3/4	10 3/4	6	9.0
2S	48		3	3/4	1	8	3 3/4	5 1/8	15 3/8	11 1/8	12 1/8	14 3/8	1 5/8	6 7/8	5 3/8	13 7/8	4 3/8	3 7/8	3	8 5/8	13 3/4	2 1/8	11 7/8	2 3/4	16 3/8	9	16.0
2M	48		3	3/4	1	8	3 3/4	5 1/8	15 3/8	11 1/8	12 1/8	14 3/8	1 5/8	6 7/8	5 3/8	13 7/8	4 3/8	3 7/8	3	8 5/8	13 3/4	2 1/8	11 7/8	2 3/4	16 3/8	9	16.0
3	48		3	3/4	1	8	3 3/4	5 1/8	15 3/8	11 1/8	12 1/8	14 3/8	1 5/8	6 7/8	5 3/8	13 7/8	4 3/8	3 7/8	3	8 5/8	13 3/4	2 1/8	11 7/8	2 3/4	16 3/8	9	16.0
4	48		3	3/4	1	8	3 3/4	5 1/8	15 3/8	11 1/8	12 1/8	14 3/8	1 5/8	6 7/8	5 3/8	13 7/8	4 3/8	3 7/8	3	8 5/8	13 3/4	2 1/8	11 7/8	2 3/4	16 3/8	9	16.0
5	48		3	3/4	1	8	3 3/4	5 1/8	15 3/8	11 1/8	12 1/8	14 3/8	1 5/8	6 7/8	5 3/8	13 7/8	4 3/8	3 7/8	3	8 5/8	13 3/4	2 1/8	11 7/8	2 3/4	16 3/8	9	16.0

STANDARD SIGN
W20-1A, B, C, D, E, F, G & H

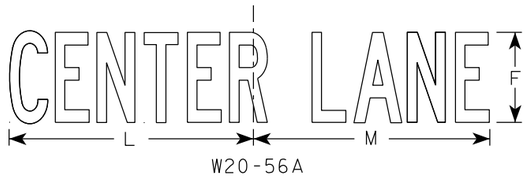
WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

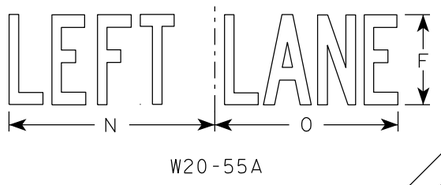
DATE 1/10/2024 PLATE NO. W20-1.12

PROJECT NO:

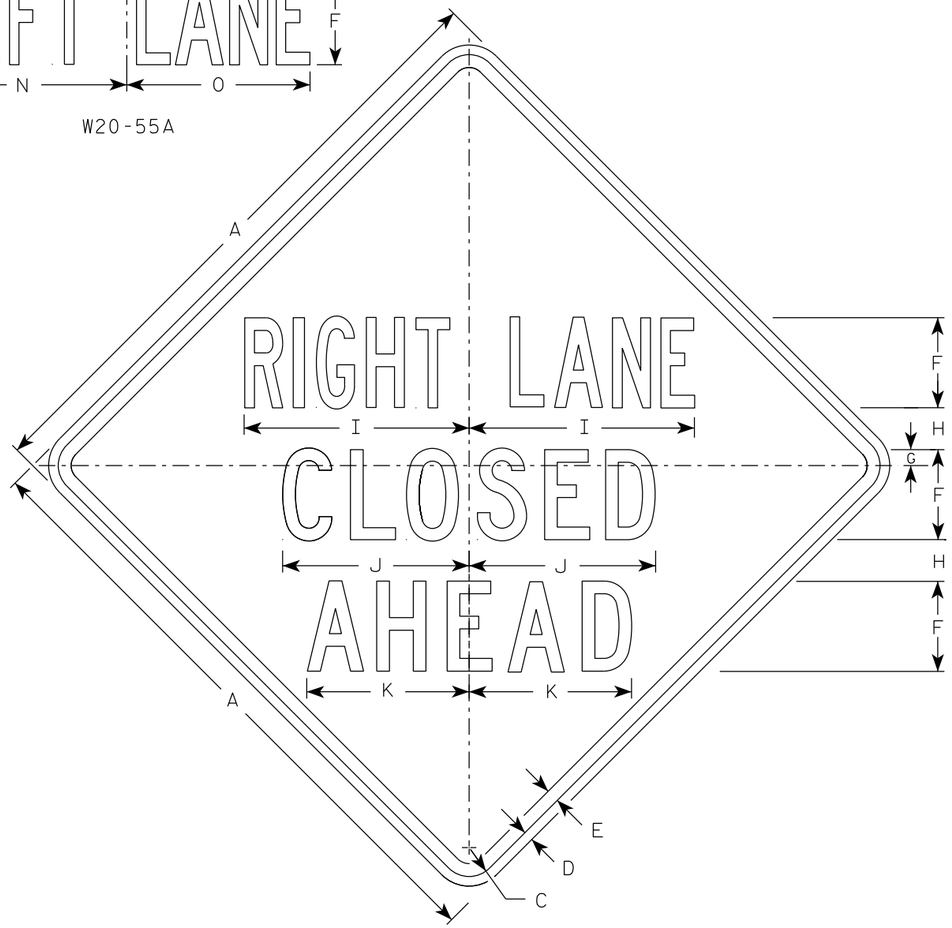
SHEET NO: 308 E



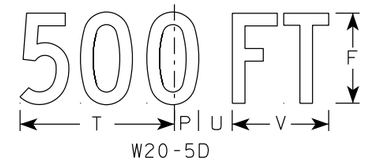
W20-56A



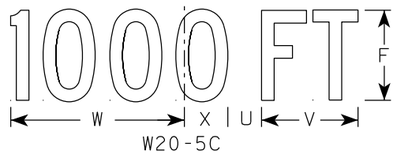
W20-55A



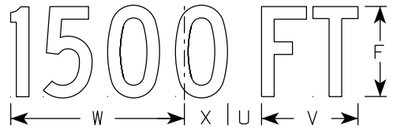
W20-5A



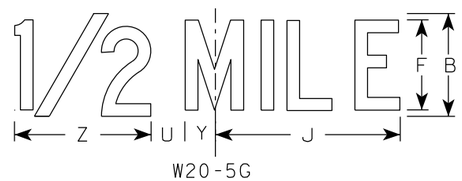
W20-5D



W20-5C



W20-5B



W20-5G

W20-5F

NOTES

1. Sign is Type II - Type F Reflective
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. " _____ LANE" is Series B.
   All other copy is Series C.

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	6	2 1/4	5/8	3/4	5	7/8	2 1/2	13 1/8	10 3/4	9 1/2	14 1/4	13 5/8	12	12	1 3/8	1 1/8	4 1/2	3 1/2	9	1 7/8	5 5/8	10 1/8	2 1/2	1 3/4	8	9.0
2S	48	8	3	3/4	1	7	1 1/4	3 1/4	17 1/2	14 3/8	12 5/8	19	18 3/8	16	14 1/4	1 7/8	1 1/2	6	4 5/8	12	2 5/8	7 1/2	13 1/2	3 3/8	2 3/8	10 5/8	16.0
2M	48	8	3	3/4	1	7	1 1/4	3 1/4	17 1/2	14 3/8	12 5/8	19	18 3/8	16	14 1/4	1 7/8	1 1/2	6	4 5/8	12	2 5/8	7 1/2	13 1/2	3 3/8	2 3/8	10 5/8	16.0
3	48	8	3	3/4	1	7	1 1/4	3 1/4	17 1/2	14 3/8	12 5/8	19	18 3/8	16	14 1/4	1 7/8	1 1/2	6	4 5/8	12	2 5/8	7 1/2	13 1/2	3 3/8	2 3/8	10 5/8	16.0
4	48	8	3	3/4	1	7	1 1/4	3 1/4	17 1/2	14 3/8	12 5/8	19	18 3/8	16	14 1/4	1 7/8	1 1/2	6	4 5/8	12	2 5/8	7 1/2	13 1/2	3 3/8	2 3/8	10 5/8	16.0
5	48	8	3	3/4	1	7	1 1/4	3 1/4	17 1/2	14 3/8	12 5/8	19	18 3/8	16	14 1/4	1 7/8	1 1/2	6	4 5/8	12	2 5/8	7 1/2	13 1/2	3 3/8	2 3/8	10 5/8	16.0

STANDARD SIGN

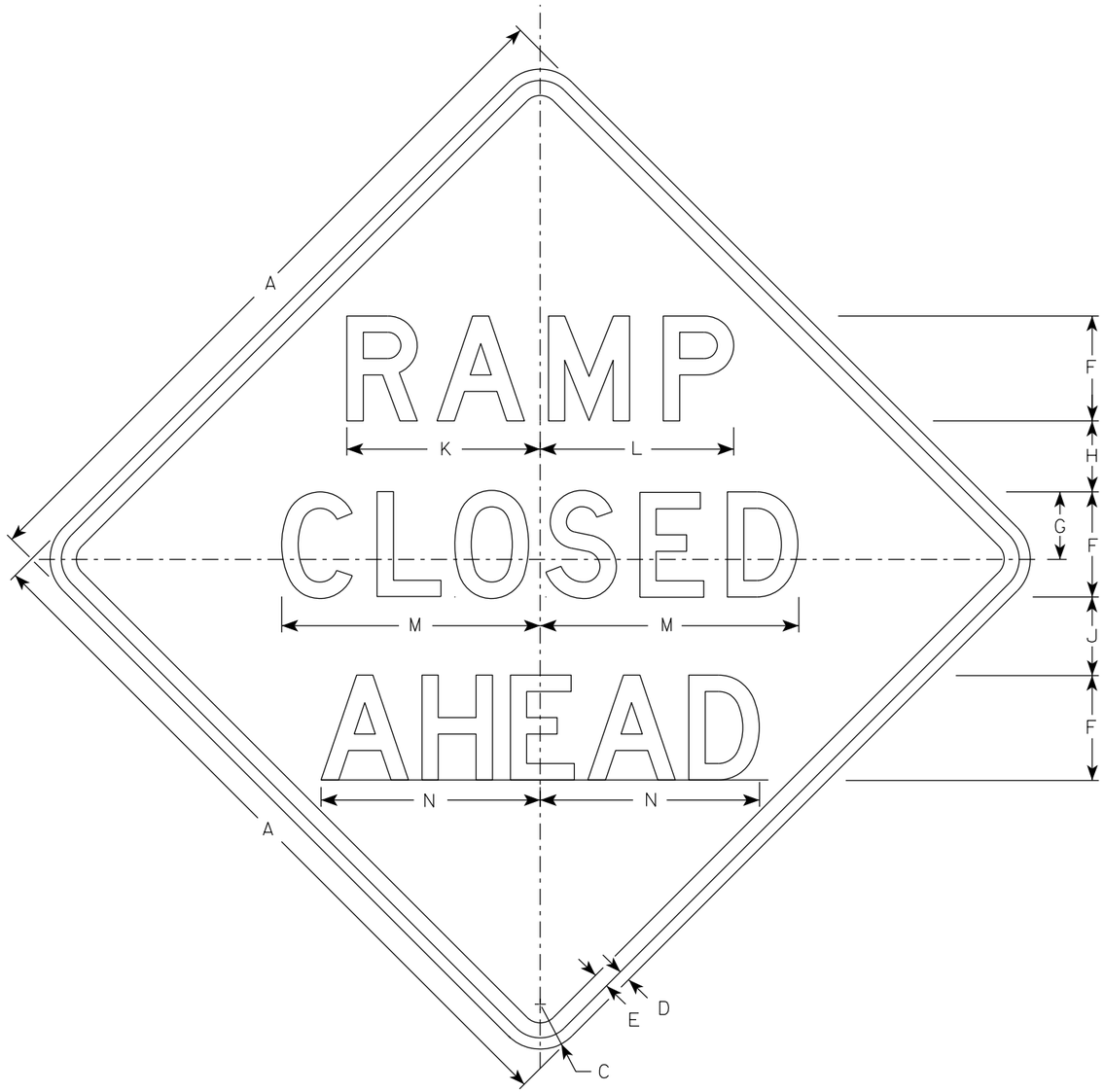
W20-5A, B, C, D, F & G

WISCONSIN DEPT OF TRANSPORTATION

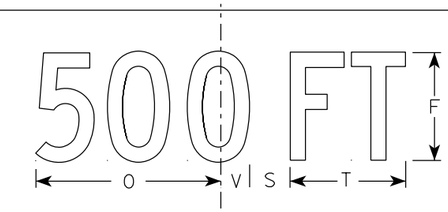
APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 3/27/24 PLATE NO. W20-5.12

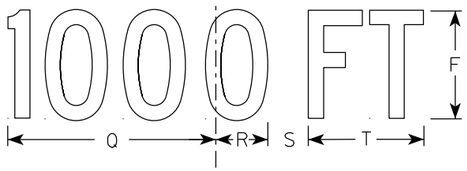
PROJECT NO: | HWY: | COUNTY: | SHEET NO: 309 | E



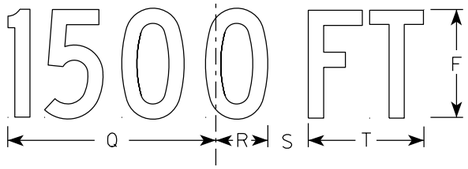
W20-53A



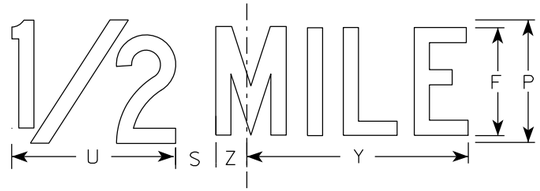
W20-53D



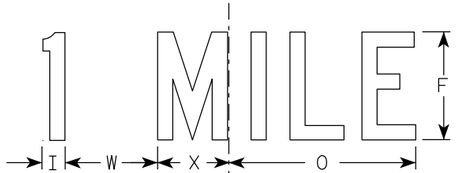
W20-53C



W20-53B



W20-53G



W20-53F

NOTES

1. Sign is Type II - Type F Reflective
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		2 1/4	5/8	3/4	5	3 3/8	3 1/2	1 1/8	4	9 1/4	9 1/4	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		3	3/4	1	7	4 1/2	4 3/4	1 1/2	5 1/4	12 7/8	12 7/8	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		3	3/4	1	7	4 1/2	4 3/4	1 1/2	5 1/4	12 7/8	12 7/8	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		3	3/4	1	7	4 1/2	4 3/4	1 1/2	5 1/4	12 7/8	12 7/8	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		3	3/4	1	7	4 1/2	4 3/4	1 1/2	5 1/4	12 7/8	12 7/8	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		3	3/4	1	7	4 1/2	4 3/4	1 1/2	5 1/4	12 7/8	12 7/8	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
W20-53A,B,C,D,F,G

WISCONSIN DEPT OF TRANSPORTATION

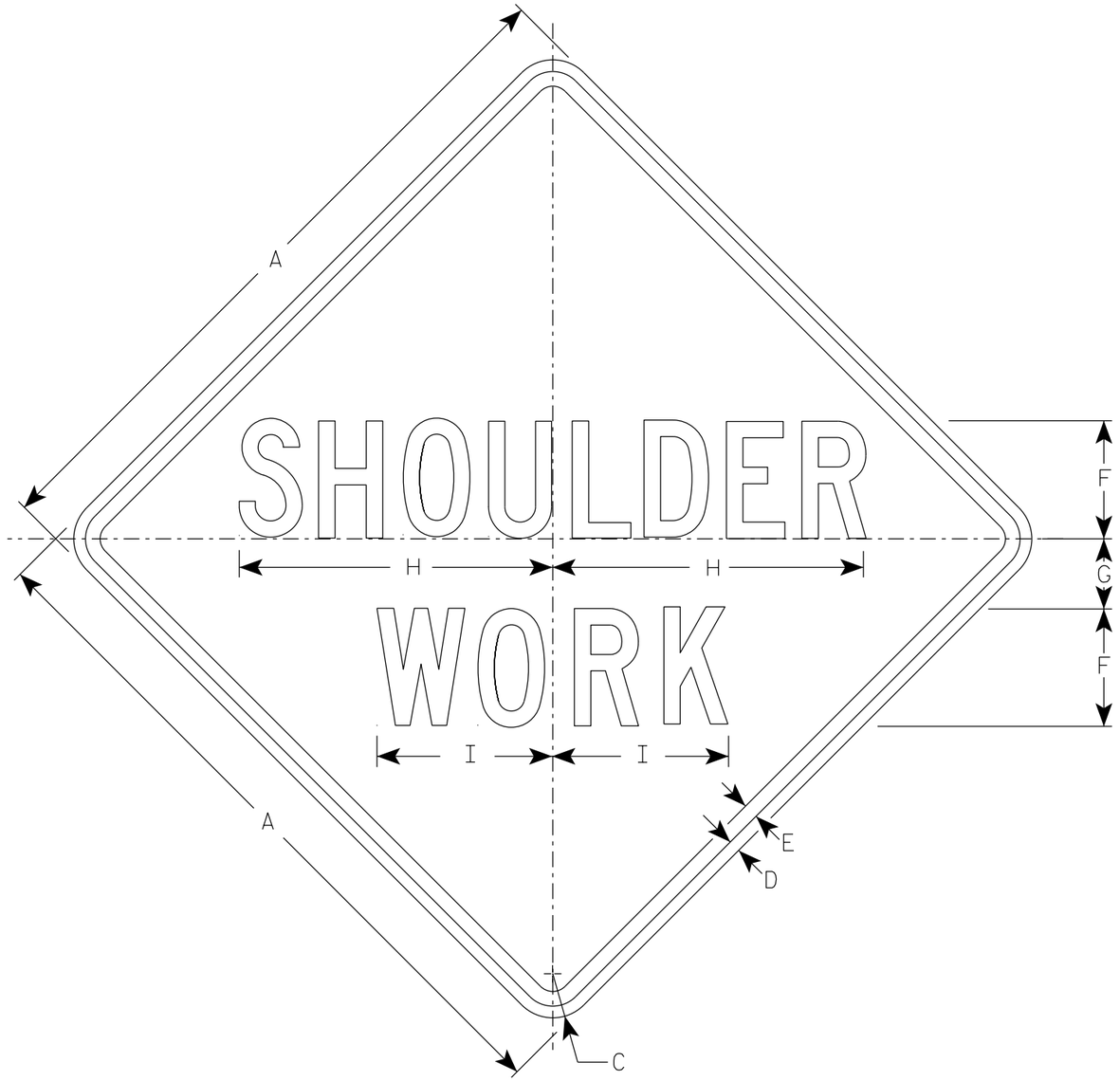
APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 1/10/2024 PLATE NO. W20-53.2

PROJECT NO: | HWY: | COUNTY: | SHEET NO: E

FILE NAME : C:\CAEfiles\Projects\tr_stdplate\W2053.DGN PLOT DATE : 10-JAN 2024 2:38 PLOT BY : dotc4c PLOT NAME : PLOT SCALE : $$.....plotscale.....$$

7



W21-5

NOTES

1. Sign is Type II - Type F Reflective
2. Color:
   Background - Orange
   Message - Black
3. Message Series - C

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		2 1/4	5/8	3/4	6	3 1/2	16	9																		9.0
2S	48		3	3/4	1	8	5	21 3/8	11 1/4																		16.0
2M	48		3	3/4	1	8	5	21 3/8	11 1/4																		16.0
3	48		3	3/4	1	8	5	21 3/8	11 1/4																		16.0
4	48		3	3/4	1	8	5	21 3/8	11 1/4																		16.0
5	48		3	3/4	1	8	5	21 3/8	11 1/4																		16.0

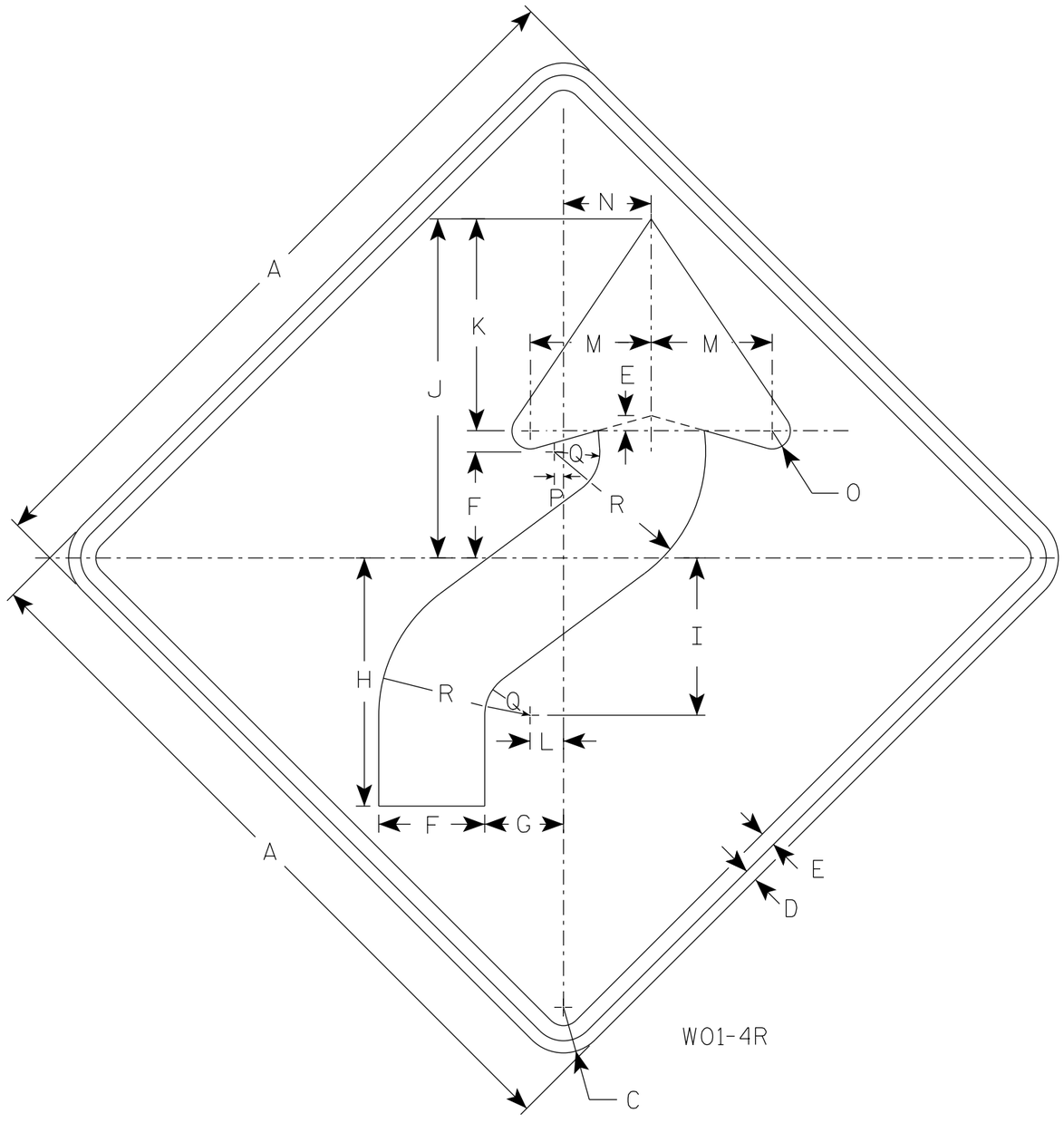
STANDARD SIGN
W21-5

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 1/11/2024 PLATE NO. W21-5.7

PROJECT NO: | HWY: | COUNTY: | SHEET NO: 311 E



W01-4R

NOTES

1. Sign is Type II - Type F Reflective
2. Color:
   Background - Orange
   Message - Black
3. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.
4. W01-4L is the same as W01-4R except the arrow is reversed along the vertical centerline.

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1	36		2 1/4	5/8	3/4	5 1/4	4	12 3/8	7 7/8	16 7/8	10 1/2	1 5/8	6	4 1/2	1	1/2	2 1/4	7 1/2									9.0
2S	48		3	3/4	1	7	5 1/4	16 1/2	10 1/2	22 1/2	14	2 1/4	8	6	1 1/4	5/8	3	10									16.0
2M	48		3	3/4	1	7	5 1/4	16 1/2	10 1/2	22 1/2	14	2 1/4	8	6	1 1/4	5/8	3	10									16.0
3	48		3	3/4	1	7	5 1/4	16 1/2	10 1/2	22 1/2	14	2 1/4	8	6	1 1/4	5/8	3	10									16.0
4	48		3	3/4	1	7	5 1/4	16 1/2	10 1/2	22 1/2	14	2 1/4	8	6	1 1/4	5/8	3	10									16.0
5	48		3	3/4	1	7	5 1/4	16 1/2	10 1/2	22 1/2	14	2 1/4	8	6	1 1/4	5/8	3	10									16.0

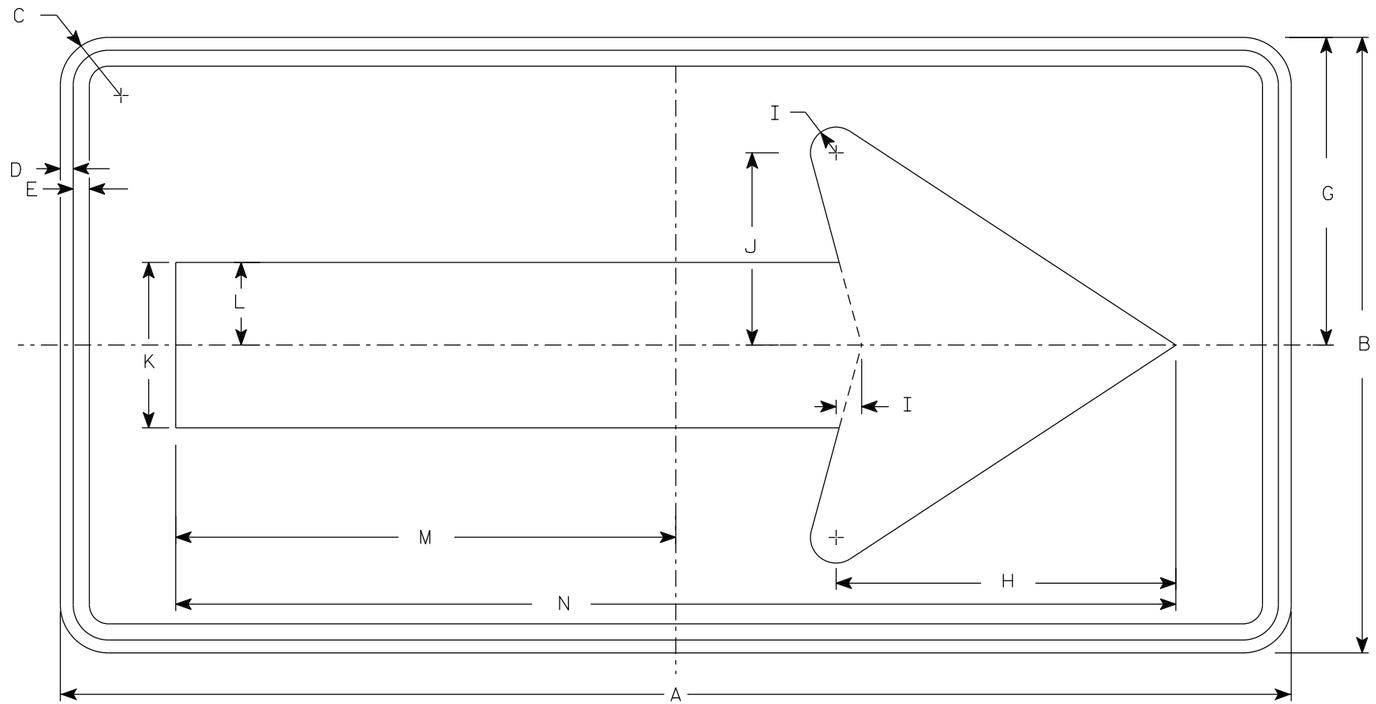
STANDARD SIGN
W01-4

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
For State Traffic Engineer

DATE 1/24/2024 PLATE NO. W01-4.2

PROJECT NO: | HWY: | COUNTY: | SHEET NO: 312 | E



WO1-6

NOTES

1. Sign is Type II - Type F Reflective
2. Color:
   Background - Orange
   Message - Black
3. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1																											
2S	48	24	1 7/8	1/2	5/8		12	13 1/4	1	7 1/2	6 1/2	3 1/4	19 1/2	39													8.0
2M	48	24	1 7/8	1/2	5/8		12	13 1/4	1	7 1/2	6 1/2	3 1/4	19 1/2	39													8.0
3	60	30	1 7/8	1/2	5/8		15	16 1/4	1 1/4	9 1/4	8	4	24 3/8	48 3/4													12.5
4	60	30	1 7/8	1/2	5/8		15	16 1/4	1 1/4	9 1/4	8	4	24 3/8	48 3/4													12.5
5	60	30	1 7/8	1/2	5/8		15	16 1/4	1 1/4	9 1/4	8	4	24 3/8	48 3/4													12.5

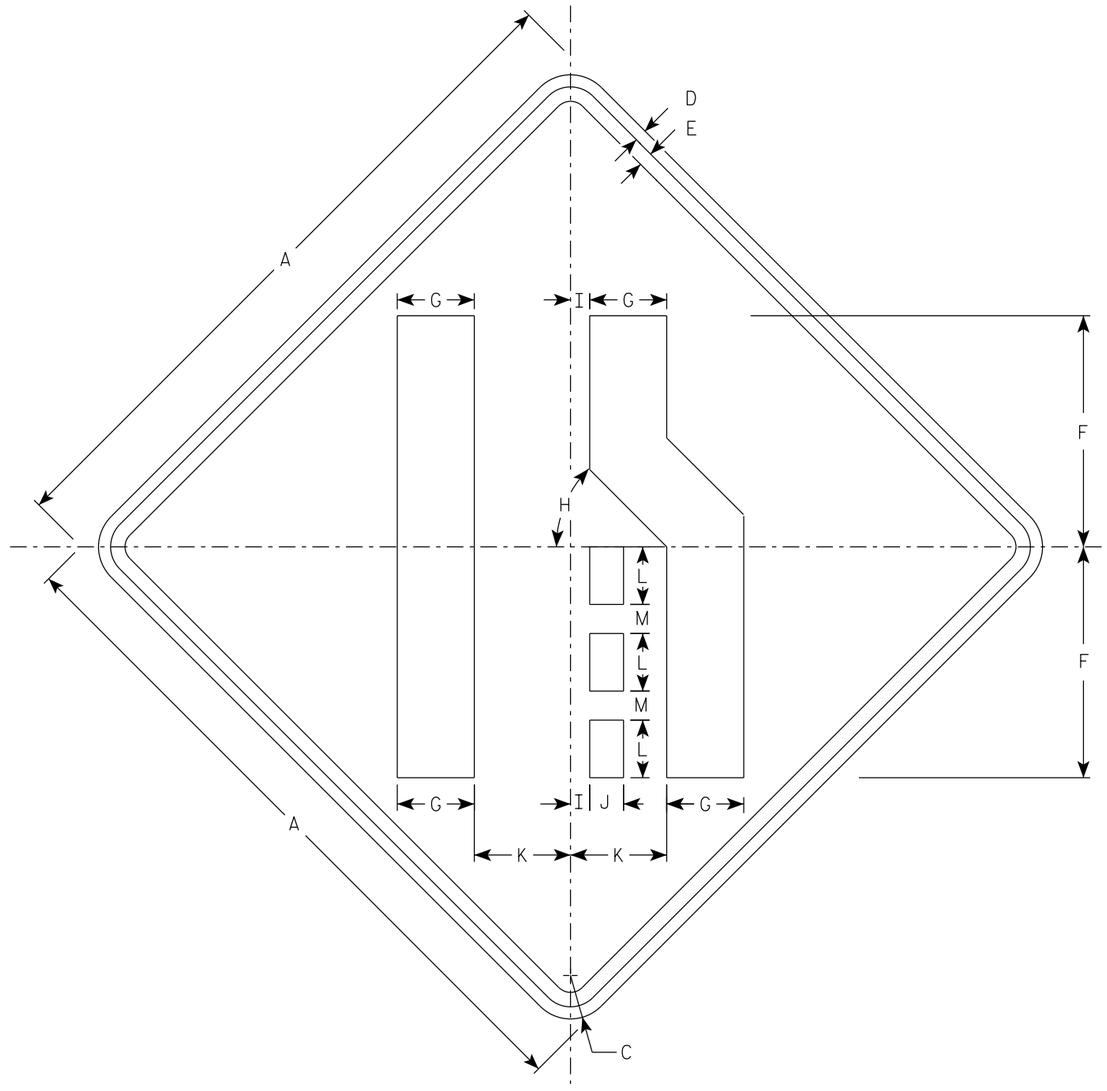
STANDARD SIGN
WO1-6

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 1/24/2024 PLATE NO. WO1-6.2

PROJECT NO: | HWY: | COUNTY: | SHEET NO: E



W04-2R

NOTES

1. Sign is Type II - Type F Reflective
2. Color:
   Background - Orange
   Message - Black
3. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.
4. W04-2L is the same as W04-2R except the symbol is reversed along the vertical centerline.

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1	36		2 1/4	5/8	3/4	12	4	45°	1	1 3/4	5	3	1 1/2														9.0
2S	48		3	3/4	1	16	5 3/8	45°	1 1/4	2 3/8	6 3/4	4	2														16.0
2M	48		3	3/4	1	16	5 3/8	45°	1 1/4	2 3/8	6 3/4	4	2														16.0
3	48		3	3/4	1	16	5 3/8	45°	1 1/4	2 3/8	6 3/4	4	2														16.0
4	48		3	3/4	1	16	5 3/8	45°	1 1/4	2 3/8	6 3/4	4	2														16.0
5	48		3	3/4	1	16	5 3/8	45°	1 1/4	2 3/8	6 3/4	4	2														16.0

STANDARD SIGN
W04-2

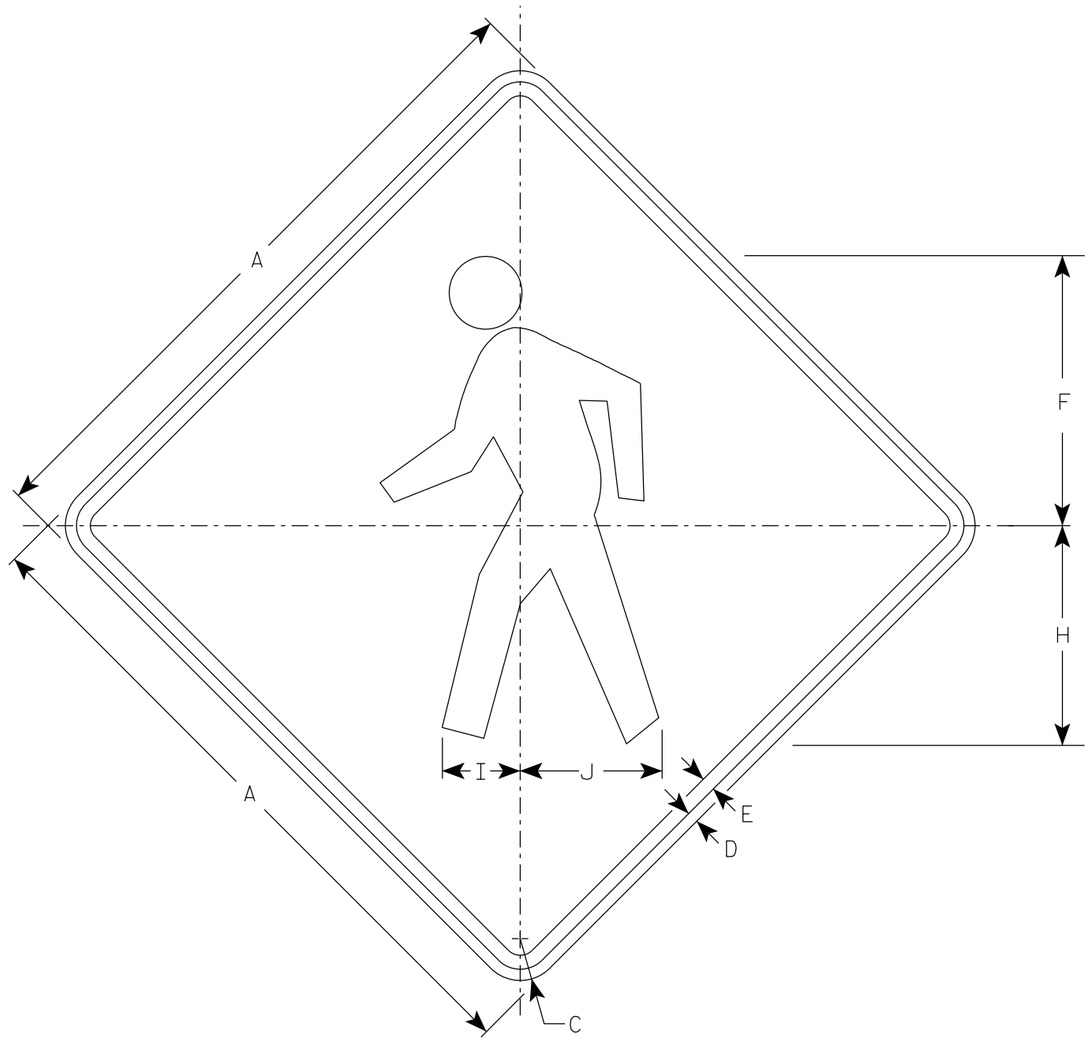
WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 1/25/2024 PLATE NO. W04-2.2

PROJECT NO:

SHEET NO: 314 E



WO11-2

NOTES

1. Sign is Type II - Type F Reflective
2. Color:
   Background - Orange
   Message - Black
3. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1	36		2 1/4	5/8	3/4	14 1/2		11 7/8	4 1/4	7 5/8																	9.0
2S	48		3	3/4	1	19 3/8		15 3/4	5 5/8	10 1/4																	16.0
2M	48		3	3/4	1	19 3/8		15 3/4	5 5/8	10 1/4																	16.0
3	48		3	3/4	1	19 3/8		15 3/4	5 5/8	10 1/4																	16.0
4	48		3	3/4	1	19 3/8		15 3/4	5 5/8	10 1/4																	16.0
5																											

STANDARD SIGN

WO11-2

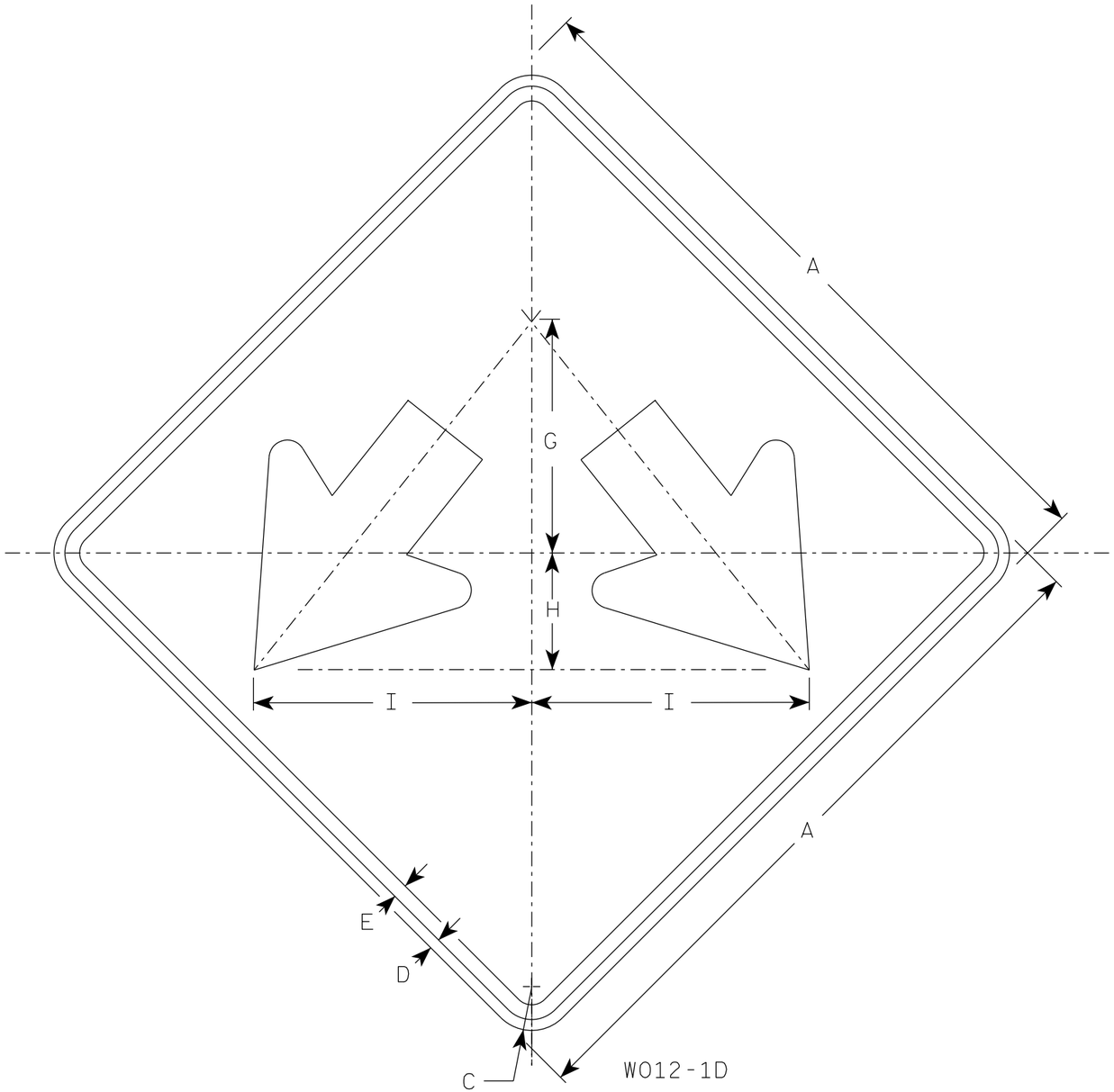
WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch

For State Traffic Engineer

DATE 2/1/2024 PLATE NO. WO11-2.2

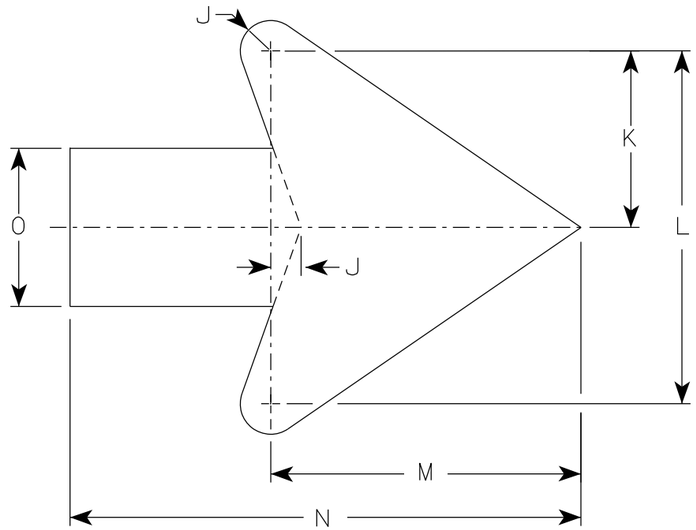
PROJECT NO: | HWY: | COUNTY: | SHEET NO: 315 | E



W012-1D

NOTES

1. Sign is Type II - Type F Reflective
2. Color:
   Background - Orange
   Message - Black
3. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.



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	24		1 1/2	1/2	3/8		8	4	9 1/2	3/8	3 3/8	7 1/4	6 3/8	10 3/8	3 1/4												4.0
2S	24		1 1/2	1/2	3/8		8	4	9 1/2	3/8	3 3/8	7 1/4	6 3/8	10 3/8	3 1/4												4.0
2M	24		1 1/2	1/2	3/8		8	4	9 1/2	3/8	3 3/8	7 1/4	6 3/8	10 3/8	3 1/4												4.0
3	30		1 7/8	1/2	5/8		10	5	11 7/8	3/4	4 1/2	9	7 7/8	13	4												6.25
4	36		2 1/4	1/2	5/8		12	6	14 1/4	1	5 1/2	10 7/8	9 5/8	15 3/4	4 3/4												9.0
5	36		2 1/4	1/2	5/8		12	6	14 1/4	1	5 1/2	10 7/8	9 5/8	15 3/4	4 3/4												9.0

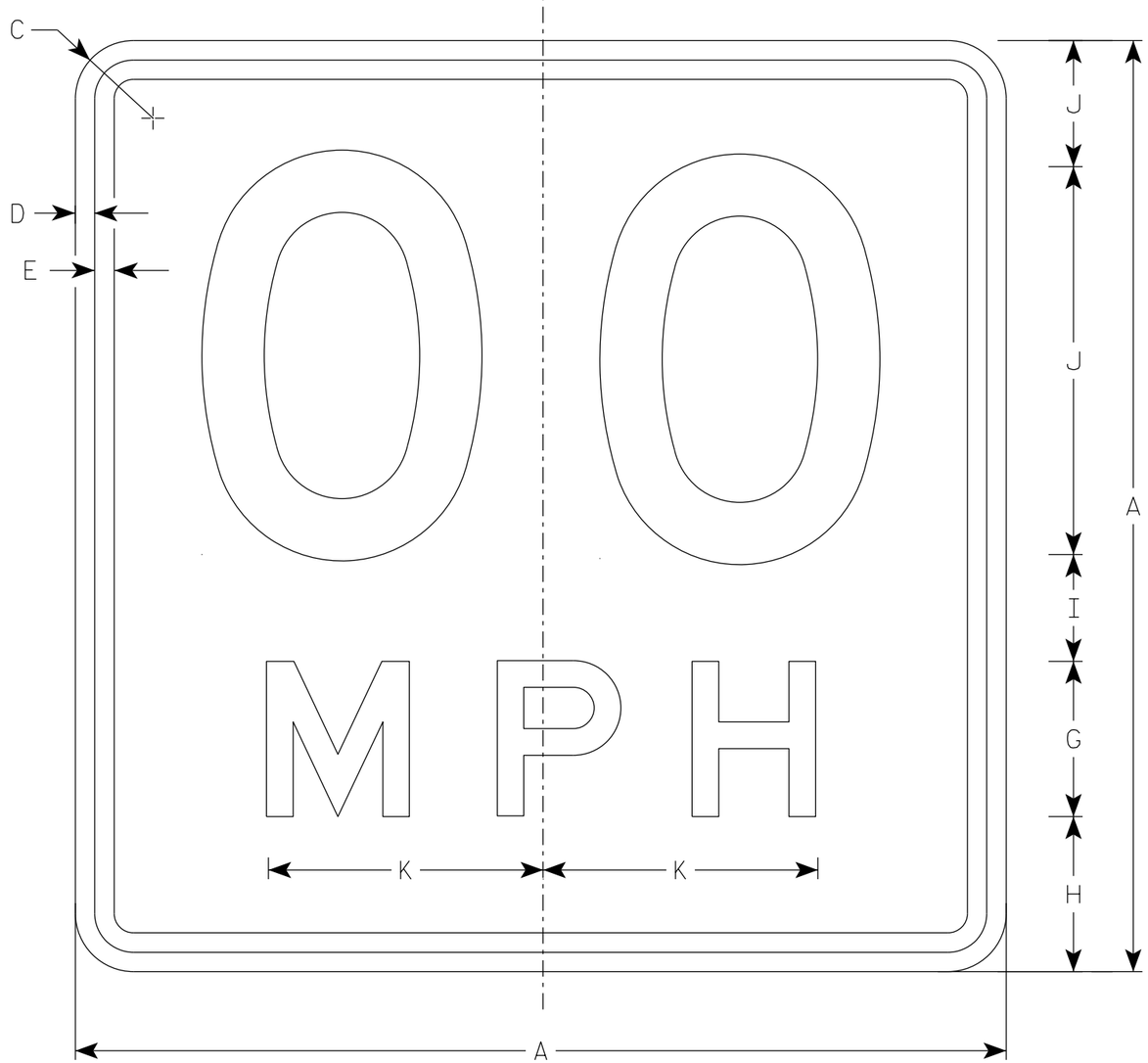
STANDARD SIGN
W012-1D

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 2/1/2024 PLATE NO. W012-1D.3

PROJECT NO:	HWY:	COUNTY:		SHEET NO: 316	E



W013-1

NOTES

1. Sign is Type II - Type F Reflective
2. Color:
   Background - Orange
   Message - Black
3. Message Series - See Note 6
4. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.
5. Substitute appropriate numerals and optically space about centerline to achieve proper balance.
6. Line 1 is Series D
   Line 2 is Series E

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1	24		1 1/2	3/8	1/2	10	4	4	2 3/4	3 1/4	7 1/8																4.0
2S	36		2 1/4	5/8	3/4	16	6	5 1/2	4	4 1/2	10 5/8																9.0
2M	36		2 1/4	5/8	3/4	16	6	5 1/2	4	4 1/2	10 5/8																9.0
3	36		2 1/4	5/8	3/4	16	6	5 1/2	4	4 1/2	10 5/8																9.0
4	36		2 1/4	5/8	3/4	16	6	5 1/2	4	4 1/2	10 5/8																9.0
5	36		2 1/4	5/8	3/4	16	6	5 1/2	4	4 1/2	10 5/8																9.0

STANDARD SIGN

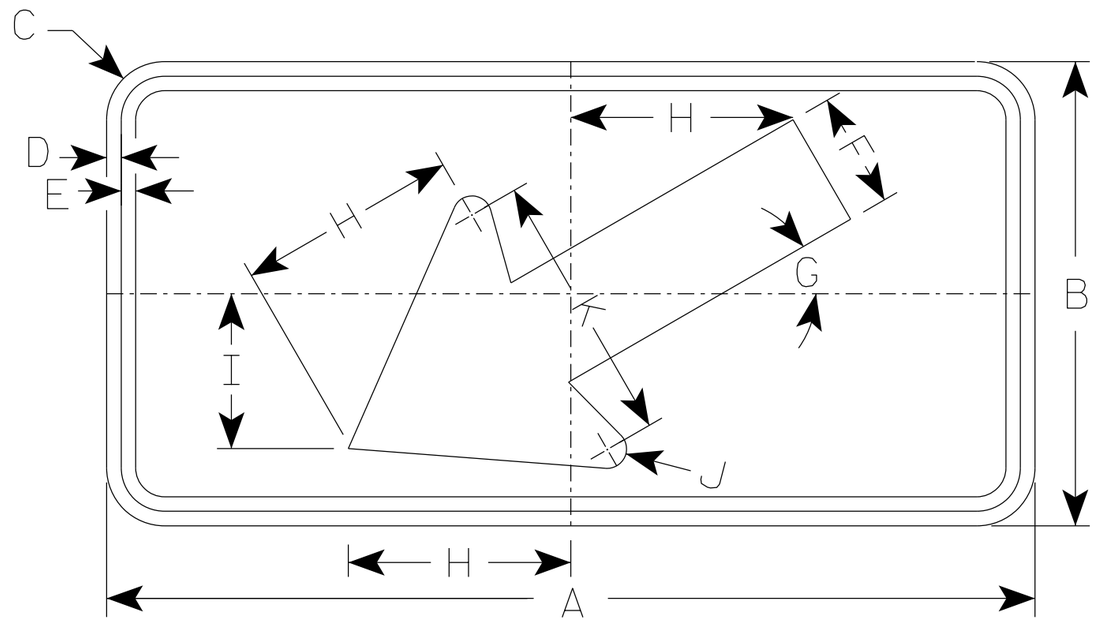
W013-1

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 2/1/2024 PLATE NO. W013-1.2

PROJECT NO:	HWY:	COUNTY:		SHEET NO: 317	E



W016-7L

NOTES

1. Sign is Type II - Type F Reflective
2. Color:
   Background - Orange
   Message - Black
3. Corners may be square or rounded but corners shall be rounded when base material is metal.
4. W016-7R is the same as W016-L except the arrow is reversed along the vertical centerline.

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1	30	18	1 ½	⅜	½	4 ½	30°	8 ½	6	⅝	10 ¼																3.75
2S	48	24	1 ⅞	½	⅝	6	30°	11 ½	8	1	14																8.0
2M	48	24	1 ⅞	½	⅝	6	30°	11 ½	8	1	14																8.0
3	48	24	1 ⅞	½	⅝	6	30°	11 ½	8	1	14																8.0
4	48	24	1 ⅞	½	⅝	6	30°	11 ½	8	1	14																8.0
5	48	24	1 ⅞	½	⅝	6	30°	11 ½	8	1	14																8.0

STANDARD SIGN
W016-7

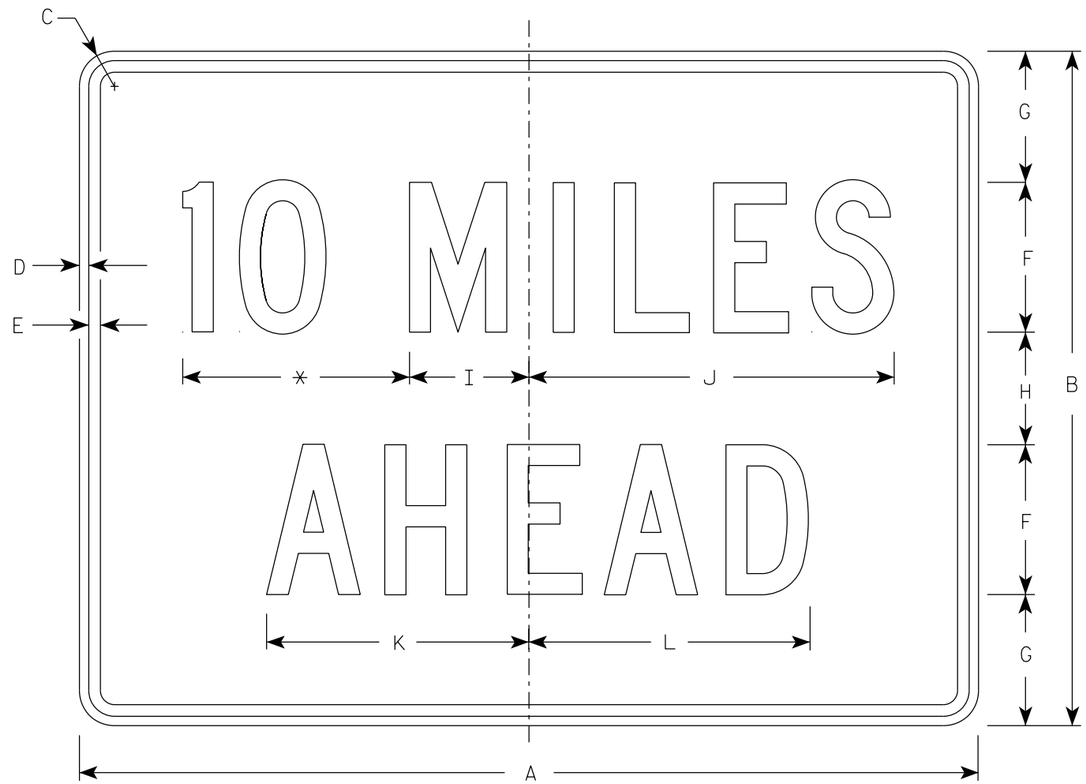
WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew R Rauch
for State Traffic Engineer

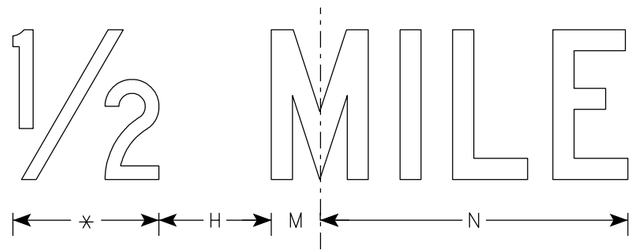
DATE 2/1/2024 PLATE NO. W016-7.3

PROJECT NO: | HWY: | COUNTY: | SHEET NO: 318 | E

7



W057-52



NOTES

1. Sign is Type II - Type F Reflective
2. Color:
   Background - Orange
   Message - Black
3. Message Series - C
4. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.
5. Substitute appropriate numerals to the nearest quarter mile 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	24	1 1/2	3/8	1/2	6	4 1/2	3	4 3/4	14 5/8	10 5/8	11 3/8	2	12													6.0
2S	48	36	2 1/4	1/2	5/8	8	7	6	6 3/8	19 1/2	14	15	2 3/4	16 3/8													12.0
2M	48	36	2 1/4	1/2	5/8	8	7	6	6 3/8	19 1/2	14	15	2 3/4	16 3/8													12.0
3	48	36	2 1/4	1/2	5/8	8	7	6	6 3/8	19 1/2	14	15	2 3/4	16 3/8													12.0
4	48	36	2 1/4	1/2	5/8	8	7	6	6 3/8	19 1/2	14	15	2 3/4	16 3/8													12.0
5	48	36	2 1/4	1/2	5/8	8	7	6	6 3/8	19 1/2	14	15	2 3/4	16 3/8													12.0

STANDARD SIGN
W057-52

WISCONSIN DEPT OF TRANSPORTATION

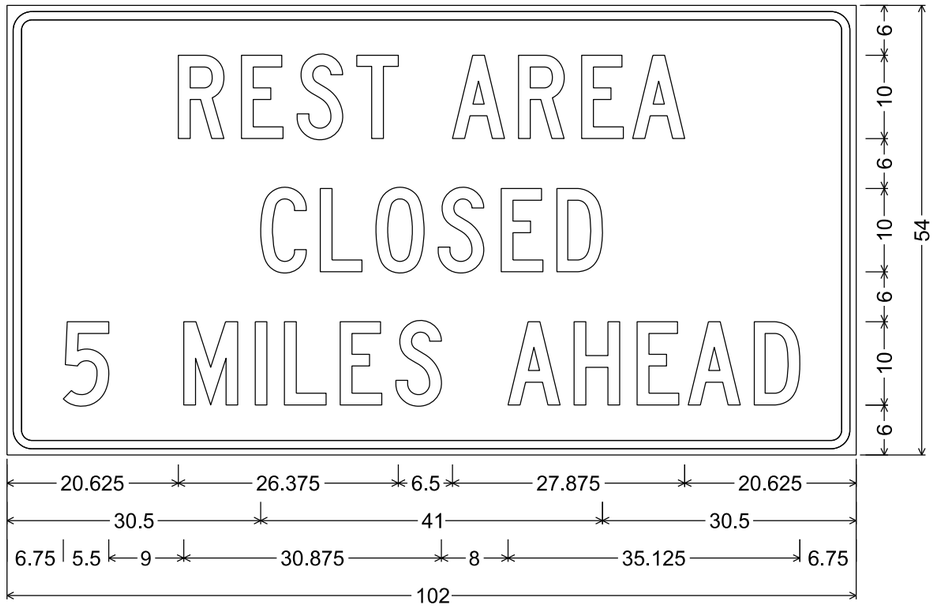
APPROVED Matthew R Rauch
for State Traffic Engineer

DATE 2/1/2024 PLATE NO. W057-52.3

PROJECT NO: | HWY: | COUNTY: | SHEET NO: 319 E

NOTES

1. Fixed Message Signs Type II - Type F Reflective
2. Color:
   Background - Orange
   Message - Black
3. Message Series - D except as noted



3.000" Radius, 1.000" Border, 0.750" Indent

7

7

IH 39 747+30.00 TO 763+27.60

STATION	DISTANCE	AREA (SF)			INCREMENTAL VOL (CY) (UNADJUSTED)			CUMULATIVE VOL (CY)		
		CUT	SALVAGED/UNUSABLE PAVEMENT MATERIAL	FILL	CUT	SALVAGED/UNUSABLE PAVEMENT MATERIAL	FILL	CUT 1.00	EXPANDED FILL 1.25	MASS ORDINATE
					NOTE 1	NOTE 2	NOTE 3	NOTE 1		NOTE 8
747+30.00	0.00	9.75	0.00	32.77	0	0	0	0	0	0
747+50.00	20.00	2.97	0.00	13.27	5	0	17	5	21	-16
748+00.00	50.00	3.00	0.00	0.38	6	0	13	11	38	-27
748+50.00	50.00	1.79	0.00	0.53	4	0	1	15	39	-24
749+00.00	50.00	1.79	0.00	0.73	3	0	1	18	40	-22
749+50.00	50.00	2.95	0.00	0.99	4	0	2	22	43	-21
749+80.30	30.30	1.94	0.00	2.00	3	0	2	25	45	-20
749+83.40	3.10	1.81	0.00	2.44	0	0	0	25	45	-20
750+00.00	16.60	2.20	0.00	10.50	1	0	4	26	50	-24
750+08.40	8.40	1.24	0.00	16.38	1	0	4	27	55	-28
750+33.40	25.00	2.01	0.00	24.53	2	0	19	29	79	-50
750+50.00	16.60	2.58	0.00	13.37	1	0	12	30	94	-64
751+00.00	50.00	3.25	0.00	4.97	5	0	17	35	115	-80
751+03.40	3.40	1.69	0.00	2.05	0	0	0	35	115	-80
751+50.00	46.60	2.59	0.00	3.95	4	0	5	39	121	-82
751+97.50	47.50	2.49	0.00	0.00	4	0	3	43	125	-82
752+00.00	2.50	2.53	0.00	0.01	0	0	0	43	125	-82
752+50.00	50.00	2.42	0.00	0.00	5	0	0	48	125	-77
753+00.00	50.00	2.16	0.00	0.00	4	0	0	52	125	-73
753+50.00	50.00	2.44	0.00	0.00	4	0	0	56	125	-69
754+00.00	50.00	1.87	0.00	0.00	4	0	0	60	125	-65
754+50.00	50.00	2.96	0.00	0.00	4	0	0	64	125	-61
755+00.00	50.00	3.16	0.00	0.00	6	0	0	70	125	-55
755+50.00	50.00	2.12	0.00	0.00	5	0	0	75	125	-50
756+00.00	50.00	2.57	0.00	0.00	4	0	0	79	125	-46
756+50.00	50.00	2.39	0.00	0.00	5	0	0	84	125	-41
757+00.00	50.00	1.86	0.00	0.00	4	0	0	88	125	-37
757+50.00	50.00	1.62	0.00	0.00	3	0	0	91	125	-34
758+00.00	50.00	1.66	0.00	0.00	3	0	0	94	125	-31
758+50.00	50.00	1.58	0.00	0.00	3	0	0	97	125	-28
759+00.00	50.00	1.64	0.00	0.00	3	0	0	100	125	-25
759+50.00	50.00	2.09	0.00	0.00	3	0	0	103	125	-22
760+00.00	50.00	2.31	0.00	0.00	4	0	0	107	125	-18
760+50.00	50.00	2.99	0.00	0.00	5	0	0	112	125	-13
761+00.00	50.00	2.12	0.00	0.00	5	0	0	117	125	-8
761+50.00	50.00	1.12	0.00	1.11	3	0	1	120	126	-6
761+55.38	5.38	1.11	0.00	2.13	0	0	0	120	126	-6
761+58.50	3.12	1.05	0.00	3.10	0	0	0	120	126	-6
761+83.50	25.00	0.59	0.00	28.18	1	0	14	121	144	-23
762+00.00	16.50	0.35	0.00	34.91	0	0	19	121	168	-47
762+08.50	8.50	0.24	0.00	37.93	0	0	11	121	181	-60
762+33.50	25.00	1.00	0.00	30.54	1	0	32	122	221	-99
762+50.00	16.50	1.16	0.00	23.73	1	0	17	123	243	-120
763+00.00	50.00	1.50	0.00	6.14	2	0	28	125	278	-153
763+27.60	27.60	3.45	0.00	1.31	3	0	4	128	283	-155

NOTES:	
1 - CUT	CUT INCLUDES SALVAGED/UNUSABLE PAVEMENT MATERIAL
2 - SALVAGED/UNUSABLE PAVEMENT MATERIAL	THIS DOES NOT SHOW UP IN CROSS SECTIONS
3 - FILL	DOES NOT INCLUDE UNUSABLE PAVEMENT EXC VOLUME
4 - EXPANDED MARSH BACKFILL	WILL BE BACKFILLED WITH GRANULAR BACKFILL (OR CUT, OR BORROW)
6 - REDUCED MARSH IN FILL	REDUCED MARSH EXCAVATION THAT CAN BE USED IN FILL
8 - MASS ORDINATE	IF MARSH OR EBS TO BE BACKFILLED WITH COMMON OR BORROW: [(CUT - SALVAGED PAVT - EXPANDED MARSH EXC - EXPANDED EBS) - ((FILL - REDUCED MARSH IN FILL - REDUCED EBS IN FILL - EXPANDED ROCK) * FILL FACTOR)]

IH 39 865+95.29 TO 871+84.47

STATION	DISTANCE	AREA (SF)			INCREMENTAL VOL (CY) (UNADJUSTED)			CUMULATIVE VOL (CY)		
		CUT	SALVAGED/UNUSABLE PAVEMENT MATERIAL	FILL	CUT	SALVAGED/UNUSABLE PAVEMENT MATERIAL	FILL	CUT 1.00	EXPANDED FILL 1.25	MASS ORDINATE
					NOTE 1	NOTE 2	NOTE 3	NOTE 1		NOTE 8
865+95.29	0.00	0.14	0.00	1.64	0	0	0	0	0	0
866+50.00	54.71	1.73	0.00	22.11	2	0	24	2	30	-28
867+00.00	50.00	0.00	0.00	15.13	2	0	34	4	73	-69
867+50.00	50.00	0.00	0.00	26.93	0	0	39	4	121	-117
868+00.00	50.00	0.00	0.00	15.75	0	0	40	4	171	-167
868+08.67	8.67	0.00	0.00	16.03	0	0	5	4	178	-174
868+21.12	12.45	3.65	0.00	10.05	1	0	6	5	185	-180
868+39.87	18.75	1.24	0.00	9.34	2	0	7	7	194	-187
868+50.00	10.13	1.71	0.00	7.82	1	0	3	8	198	-190
869+00.00	50.00	8.55	0.00	2.28	10	0	9	18	209	-191
869+39.89	39.89	4.06	0.00	3.70	9	0	4	27	214	-187
869+50.00	10.11	4.45	0.00	4.83	2	0	2	29	216	-187
869+58.64	8.64	5.39	0.00	5.30	2	0	2	31	219	-188
869+71.08	12.44	3.61	0.00	4.70	2	0	2	33	221	-188
870+00.00	28.92	5.91	0.00	2.70	5	0	4	38	226	-188
870+34.47	34.47	2.40	0.00	1.34	5	0	3	43	230	-187
870+50.00	15.53	1.37	0.00	0.89	1	0	1	44	231	-187
870+73.70	23.70	0.00	0.00	2.03	1	0	1	45	233	-188
871+50.00	76.30	1.96	0.00	3.26	3	0	7	48	241	-193
871+84.47	34.47	2.50	0.00	1.68	3	0	3	51	245	-194

NOTES:	
1 - CUT	CUT INCLUDES SALVAGED/UNUSABLE PAVEMENT MATERIAL
2 - SALVAGED/UNUSABLE PAVEMENT MATERIAL	THIS DOES NOT SHOW UP IN CROSS SECTIONS
3 - FILL	DOES NOT INCLUDE UNUSABLE PAVEMENT EXC VOLUME
4 - EXPANDED MARSH BACKFILL	WILL BE BACKFILLED WITH GRANULAR BACKFILL (OR CUT, OR BORROW)
6 - REDUCED MARSH IN FILL	REDUCED MARSH EXCAVATION THAT CAN BE USED IN FILL
8 - MASS ORDINATE	IF MARSH OR EBS TO BE BACKFILLED WITH COMMON OR BORROW: [(CUT - SALVAGED PAVT - EXPANDED MARSH EXC - EXPANDED EBS) - ((FILL - REDUCED MARSH IN FILL - REDUCED EBS IN FILL - EXPANDED ROCK) * FILL FACTOR)]

IH 39 945+31.15 TO 951+50

STATION	DISTANCE	AREA (SF)			INCREMENTAL VOL (CY) (UNADJUSTED)			CUMULATIVE VOL (CY)		
		CUT	SALVAGED/UNUSABLE PAVEMENT MATERIAL	FILL	CUT	SALVAGED/UNUSABLE PAVEMENT MATERIAL	FILL	CUT 1.00	EXPANDED FILL 1.25	MASS ORDINATE
					NOTE 1	NOTE 2	NOTE 3	NOTE 1		NOTE 8
945+31.15	0.00	1.88	0.00	0.66	0	0	0	0	0	0
945+50.00	18.85	1.73	0.00	3.80	1	0	2	1	3	-2
946+00.00	50.00	2.61	0.00	1.36	4	0	5	5	9	-4
946+50.00	50.00	4.42	0.00	2.77	7	0	4	12	14	-2
946+81.13	31.13	4.57	0.00	3.99	5	0	4	17	19	-2
947+00.00	18.87	5.56	0.00	3.68	4	0	3	21	23	-2
947+44.51	44.51	0.87	0.00	5.58	5	0	8	26	33	-7
947+50.00	5.49	0.56	0.00	5.21	0	0	1	26	34	-8
947+56.97	6.97	0.27	0.00	5.68	0	0	1	26	35	-9
947+75.72	18.75	0.19	0.00	8.89	0	0	5	26	41	-15
948+00.00	24.28	0.05	0.00	11.27	0	0	9	26	53	-27
948+50.00	50.00	0.07	0.00	7.87	0	0	18	26	75	-49
948+62.87	12.87	0.16	0.00	7.31	0	0	4	26	80	-54
948+81.62	18.75	0.26	0.00	7.61	0	0	5	26	86	-60
948+94.08	12.46	0.22	0.00	7.15	0	0	3	26	90	-64
949+00.00	5.92	0.22	0.00	7.66	0	0	2	26	93	-67
949+50.00	50.00	0.64	0.00	7.40	1	0	14	27	110	-83
949+57.34	7.33	0.23	0.00	10.16	0	0	2	27	113	-86
950+00.00	42.67	1.36	0.00	10.60	1	0	16	28	133	-105
950+50.00	50.00	0.89	0.00	11.20	2	0	20	30	158	-128
951+00.00	50.00	0.32	0.00	6.14	1	0	16	31	178	-147
951+07.21	7.21	0.59	0.00	3.09	0	0	1	31	179	-148
951+50.00	42.79	0.00	0.00	0.00	0	0	2	31	181	-150

NOTES:	
1 - CUT	CUT INCLUDES SALVAGED/UNUSABLE PAVEMENT MATERIAL
2 - SALVAGED/UNUSABLE PAVEMENT MATERIAL	THIS DOES NOT SHOW UP IN CROSS SECTIONS
3 - FILL	DOES NOT INCLUDE UNUSABLE PAVEMENT EXC VOLUME
4 - EXPANDED MARSH BACKFILL	WILL BE BACKFILLED WITH GRANULAR BACKFILL (OR CUT, OR BORROW)
6 - REDUCED MARSH IN FILL	REDUCED MARSH EXCAVATION THAT CAN BE USED IN FILL
8 - MASS ORDINATE	IF MARSH OR EBS TO BE BACKFILLED WITH COMMON OR BORROW: [(CUT - SALVAGED PAVT - EXPANDED MARSH EXC - EXPANDED EBS) - ((FILL - REDUCED MARSH IN FILL - REDUCED EBS IN FILL - EXPANDED ROCK) * FILL FACTOR)]

IH 39 998+50 TO 1002+92.50

STATION	DISTANCE	AREA (SF)			INCREMENTAL VOL (CY) (UNADJUSTED)			CUMULATIVE VOL (CY)		
		CUT	SALVAGED/UNUSABLE PAVEMENT MATERIAL	FILL	CUT	SALVAGED/UNUSABLE PAVEMENT MATERIAL	FILL	CUT 1.00	EXPANDED FILL 1.25	MASS ORDINATE
					NOTE 1	NOTE 2	NOTE 3	NOTE 1		NOTE 8
998+50.00	0.00	38.29	0.00	3.49	0	0	0	0	0	0
999+00.00	50.00	2.72	0.00	0.00	38	0	3	38	4	34
999+50.00	50.00	3.17	0.00	0.00	5	0	0	43	4	39
1000+00.00	50.00	1.83	0.00	0.06	5	0	0	48	4	44
1000+50.00	50.00	2.09	0.00	0.00	4	0	0	52	4	48
1000+87.96	37.96	2.06	0.00	0.00	3	0	0	55	4	51
1000+91.06	3.10	1.89	0.00	0.00	0	0	0	55	4	51
1001+00.00	8.94	1.43	0.00	0.32	1	0	0	56	4	52
1001+16.06	16.06	1.01	0.00	2.69	1	0	1	57	5	52
1001+27.80	11.74	0.80	0.00	5.32	0	0	2	57	8	50
1001+30.90	3.10	0.72	0.00	6.21	0	0	1	57	9	48
1001+41.06	10.16	0.51	0.00	10.34	0	0	3	57	13	45
1001+50.00	8.94	0.51	0.00	10.43	0	0	3	57	16	41
1001+55.90	5.90	0.53	0.00	11.06	0	0	2	57	19	38
1001+80.90	25.00	1.20	0.00	17.67	1	0	13	58	35	23
1001+91.06	10.16	1.90	0.00	11.46	1	0	5	59	41	18
1002+00.00	8.94	2.41	0.00	6.46	1	0	3	60	45	15
1002+00.90	0.90	2.44	0.00	6.21	0	0	0	60	45	15
1002+50.00	49.10	1.67	0.00	0.98	4	0	7	64	54	10
1002+75.16	25.16	1.53	0.00	0.00	1	0	0	65	54	11
1002+92.50	17.34	1.61	0.00	0.00	1	0	0	66	54	12

NOTES:	
1 - CUT	CUT INCLUDES SALVAGED/UNUSABLE PAVEMENT MATERIAL
2 - SALVAGED/UNUSABLE PAVEMENT MATERIAL	THIS DOES NOT SHOW UP IN CROSS SECTIONS
3 - FILL	DOES NOT INCLUDE UNUSABLE PAVEMENT EXC VOLUME
4 - EXPANDED MARSH BACKFILL	WILL BE BACKFILLED WITH GRANULAR BACKFILL (OR CUT, OR BORROW)
6 - REDUCED MARSH IN FILL	REDUCED MARSH EXCAVATION THAT CAN BE USED IN FILL
8 - MASS ORDINATE	IF MARSH OR EBS TO BE BACKFILLED WITH COMMON OR BORROW: [(CUT - SALVAGED PAVT - EXPANDED MARSH EXC - EXPANDED EBS) - ((FILL - REDUCED MARSH IN FILL - REDUCED EBS IN FILL - EXPANDED ROCK) * FILL FACTOR)]

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IH 39 1014+54.50 TO 1032+44.10

STATION	DISTANCE	AREA (SF)			INCREMENTAL VOL (CY) (UNADJUSTED)			CUMULATIVE VOL (CY)		
		CUT	SALVAGED/UNUSABLE PAVEMENT MATERIAL	FILL	CUT	SALVAGED/UNUSABLE PAVEMENT MATERIAL	FILL	CUT 1.00	EXPANDED FILL 1.25	MASS ORDINATE
					NOTE 1	NOTE 2	NOTE 3	NOTE 1		NOTE 8
1014+54.50	0.00	2.86	0.00	0.00	0	0	0	0	0	0
1015+00.00	45.50	2.17	0.00	0.00	4	0	0	4	0	4
1015+50.00	50.00	1.69	0.00	0.00	4	0	0	8	0	8
1016+00.00	50.00	1.49	0.00	0.00	3	0	0	11	0	11
1016+50.00	50.00	1.72	0.00	0.00	3	0	0	14	0	14
1017+00.00	50.00	0.51	0.00	0.00	2	0	0	16	0	16
1017+50.00	50.00	0.66	0.00	0.01	1	0	0	17	0	17
1018+00.00	50.00	0.45	0.00	3.30	1	0	3	18	4	14
1018+50.00	50.00	0.54	0.00	0.08	1	0	3	19	8	12
1019+00.00	50.00	1.61	0.00	0.00	2	0	0	21	8	14
1019+50.00	50.00	1.77	0.00	0.00	3	0	0	24	8	17
1020+00.00	50.00	2.38	0.00	0.00	4	0	0	28	8	21
1020+50.00	50.00	1.35	0.00	0.00	3	0	0	31	8	24
1021+00.00	50.00	2.25	0.00	0.00	3	0	0	34	8	27
1021+50.00	50.00	1.96	0.00	0.00	4	0	0	38	8	31
1022+00.00	50.00	1.56	0.00	0.00	3	0	0	41	8	34
1022+50.00	50.00	1.76	0.00	0.00	3	0	0	44	8	37
1023+00.00	50.00	1.58	0.00	0.00	3	0	0	47	8	40
1023+50.00	50.00	1.61	0.00	0.00	3	0	0	50	8	43
1024+00.00	50.00	3.05	0.00	0.00	4	0	0	54	8	47
1024+50.00	50.00	1.95	0.00	0.00	5	0	0	59	8	52
1025+00.00	50.00	2.07	0.00	0.00	4	0	0	63	8	56
1025+50.00	50.00	2.30	0.00	0.00	4	0	0	67	8	60
1026+00.00	50.00	2.87	0.00	0.00	5	0	0	72	8	65
1026+50.00	50.00	1.87	0.00	0.00	4	0	0	76	8	69
1027+00.00	50.00	1.12	0.00	0.00	3	0	0	79	8	72
1027+50.00	50.00	1.59	0.00	0.00	3	0	0	82	8	75
1028+00.00	50.00	1.19	0.00	0.00	3	0	0	85	8	78
1028+50.00	50.00	1.37	0.00	0.00	2	0	0	87	8	80
1029+00.00	50.00	1.51	0.00	0.00	3	0	0	90	8	83
1029+50.00	50.00	1.82	0.00	0.00	3	0	0	93	8	86
1030+00.00	50.00	1.38	0.00	0.00	3	0	0	96	8	89
1030+50.00	50.00	0.89	0.00	0.01	2	0	0	98	8	91
1030+79.40	29.40	1.35	0.00	0.00	1	0	0	99	8	92
1030+82.50	3.10	1.36	0.00	0.00	0	0	0	99	8	92
1031+00.00	17.50	0.83	0.00	1.55	1	0	1	100	9	91
1031+07.50	7.50	0.64	0.00	2.55	0	0	1	100	10	90
1031+32.50	25.00	0.16	0.00	9.31	0	0	5	100	16	84
1031+52.50	20.00	0.68	0.00	7.59	0	0	6	100	24	76
1032+00.00	47.50	0.92	0.00	1.31	1	0	8	101	34	67
1032+44.10	44.10	1.15	0.00	0.00	2	0	1	103	35	68

NOTES:	
1 - CUT	CUT INCLUDES SALVAGED/UNUSABLE PAVEMENT MATERIAL
2 - SALVAGED/UNUSABLE PAVEMENT MATERIAL	THIS DOES NOT SHOW UP IN CROSS SECTIONS
3 - FILL	DOES NOT INCLUDE UNUSABLE PAVEMENT EXC VOLUME
4 - EXPANDED MARSH BACKFILL	WILL BE BACKFILLED WITH GRANULAR BACKFILL (OR CUT, OR BORROW)
6 - REDUCED MARSH IN FILL	REDUCED MARSH EXCAVATION THAT CAN BE USED IN FILL
8 - MASS ORDINATE	IF MARSH OR EBS TO BE BACKFILLED WITH COMMON OR BORROW: [(CUT - SALVAGED PAVT - EXPANDED MARSH EXC - EXPANDED EBS) - ((FILL - REDUCED MARSH IN FILL - REDUCED EBS IN FILL - EXPANDED ROCK) * FILL FACTOR)]

IH 39 1071+65.90 TO 1087+09.70

STATION	DISTANCE	AREA (SF)			INCREMENTAL VOL (CY) (UNADJUSTED)			CUMULATIVE VOL (CY)		
		CUT	SALVAGED/UNUSABLE PAVEMENT MATERIAL	FILL	CUT	SALVAGED/UNUSABLE PAVEMENT MATERIAL	FILL	CUT 1.00	EXPANDED FILL 1.25	MASS ORDINATE
					NOTE 1	NOTE 2	NOTE 3	NOTE 1		NOTE 8
1071+65.90	0.00	1.22	0.00	0.45	0	0	0	0	0	0
1072+00.00	34.10	1.63	0.00	23.02	2	0	15	2	19	-17
1072+05.00	5.00	1.66	0.00	28.50	0	0	5	2	25	-23
1072+25.00	20.00	1.30	0.00	58.37	1	0	32	3	65	-62
1072+50.00	25.00	1.34	0.00	20.71	1	0	37	4	111	-107
1072+62.00	12.00	2.12	0.00	0.14	1	0	5	5	118	-113
1073+00.00	38.00	1.59	0.00	0.09	3	0	0	8	118	-110
1073+50.00	50.00	2.62	0.00	0.00	4	0	0	12	118	-106
1074+00.00	50.00	3.10	0.00	0.20	5	0	0	17	118	-101
1074+50.00	50.00	2.40	0.00	0.26	5	0	0	22	118	-96
1075+00.00	50.00	2.18	0.00	0.17	4	0	0	26	118	-92
1075+50.00	50.00	3.43	0.00	0.04	5	0	0	31	118	-87
1076+00.00	50.00	3.36	0.00	0.37	6	0	0	37	118	-81
1076+50.00	50.00	3.04	0.00	0.09	6	0	0	43	118	-75
1077+00.00	50.00	3.60	0.00	0.00	6	0	0	49	118	-69
1077+50.00	50.00	3.02	0.00	0.00	6	0	0	55	118	-63
1078+00.00	50.00	3.53	0.00	0.00	6	0	0	61	118	-57
1078+50.00	50.00	3.62	0.00	0.00	7	0	0	68	118	-50
1079+00.00	50.00	2.65	0.00	0.00	6	0	0	74	118	-44
1079+50.00	50.00	1.39	0.00	0.06	4	0	0	78	118	-40
1080+00.00	50.00	2.50	0.00	0.00	4	0	0	82	118	-36
1080+50.00	50.00	2.91	0.00	0.03	5	0	0	87	118	-31
1081+00.00	50.00	2.52	0.00	0.00	5	0	0	92	118	-26
1081+50.00	50.00	3.51	0.00	0.00	6	0	0	98	118	-20
1082+00.00	50.00	3.03	0.00	0.00	6	0	0	104	118	-14
1082+50.00	50.00	3.39	0.00	0.00	6	0	0	110	118	-8
1083+00.00	50.00	3.02	0.00	0.00	6	0	0	116	118	-2
1083+50.00	50.00	3.08	0.00	0.00	6	0	0	122	118	5
1084+00.00	50.00	3.99	0.00	0.00	7	0	0	129	118	12
1084+49.50	49.50	2.20	0.00	0.02	6	0	0	135	118	18
1084+52.60	3.10	2.01	0.00	0.03	0	0	0	135	118	18
1084+77.60	25.00	1.40	0.00	32.87	2	0	15	137	136	1
1085+02.60	25.00	1.23	0.00	36.75	1	0	32	138	176	-38
1085+22.60	20.00	2.16	0.00	13.39	1	0	19	139	200	-61
1085+37.50	14.90	2.47	0.00	0.07	1	0	4	140	205	-65
1085+40.60	3.10	2.52	0.00	0.09	0	0	0	140	205	-65
1085+50.00	9.40	2.67	0.00	5.29	1	0	1	141	206	-65
1085+65.60	15.60	3.00	0.00	50.12	2	0	16	143	226	-83
1085+90.60	25.00	2.17	0.00	68.36	2	0	55	145	295	-150
1086+00.00	9.40	1.86	0.00	61.66	1	0	23	146	324	-178
1086+14.20	14.20	1.48	0.00	53.64	1	0	30	147	361	-214
1086+30.60	16.40	1.79	0.00	37.65	1	0	28	148	396	-248
1086+50.00	19.40	2.18	0.00	17.40	1	0	20	149	421	-272
1087+00.00	50.00	0.25	0.00	0.15	2	0	16	151	441	-290
1087+09.70	9.70	0.20	0.00	0.23	0	0	0	151	441	-290

NOTES:	
1 - CUT	CUT INCLUDES SALVAGED/UNUSABLE PAVEMENT MATERIAL
2 - SALVAGED/UNUSABLE PAVEMENT MATERIAL	THIS DOES NOT SHOW UP IN CROSS SECTIONS
3 - FILL	DOES NOT INCLUDE UNUSABLE PAVEMENT EXC VOLUME
4 - EXPANDED MARSH BACKFILL	WILL BE BACKFILLED WITH GRANULAR BACKFILL (OR CUT, OR BORROW)
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8 - MASS ORDINATE	IF MARSH OR EBS TO BE BACKFILLED WITH COMMON OR BORROW: [(CUT - SALVAGED PAVT - EXPANDED MARSH EXC - EXPANDED EBS) - ((FILL - REDUCED MARSH IN FILL - REDUCED EBS IN FILL - EXPANDED ROCK) * FILL FACTOR)]

IH 39 1109+55.12 TO 1116+44.80

STATION	DISTANCE	AREA (SF)			INCREMENTAL VOL (CY) (UNADJUSTED)			CUMULATIVE VOL (CY)		
		CUT	SALVAGED/UNUSABLE PAVEMENT MATERIAL	FILL	CUT	SALVAGED/UNUSABLE PAVEMENT MATERIAL	FILL	CUT 1.00	EXPANDED FILL 1.25	MASS ORDINATE
					NOTE 1	NOTE 2	NOTE 3	NOTE 1		NOTE 8
1109+55.12	0.00	1.22	0.00	10.43	0	0	0	0	0	0
1110+00.00	44.89	2.17	0.00	15.89	3	0	22	3	28	-25
1110+25.00	25.00	2.42	0.00	0.00	2	0	7	5	36	-31
1110+50.00	25.00	2.59	0.00	0.00	2	0	0	7	36	-29
1111+00.00	50.00	1.45	0.00	0.00	4	0	0	11	36	-25
1111+50.00	50.00	1.87	0.00	0.00	3	0	0	14	36	-22
1112+00.00	50.00	1.94	0.00	0.00	4	0	0	18	36	-18
1112+50.00	50.00	1.99	0.00	0.00	4	0	0	22	36	-14
1113+00.00	50.00	1.62	0.00	0.07	3	0	0	25	36	-11
1113+50.00	50.00	1.42	0.00	0.04	3	0	0	28	36	-8
1114+00.00	50.00	1.13	0.00	1.28	2	0	1	30	38	-8
1114+50.00	50.00	1.62	0.00	0.00	3	0	1	33	39	-6
1114+80.12	30.11	1.98	0.00	0.00	2	0	0	35	39	-4
1114+83.24	3.13	2.01	0.00	0.00	0	0	0	35	39	-4
1115+00.00	16.76	1.65	0.00	0.18	1	0	0	36	39	-3
1115+08.22	8.22	1.52	0.00	5.90	0	0	1	36	40	-4
1115+33.20	24.98	1.00	0.00	5.67	1	0	5	37	46	-9
1115+53.20	20.00	1.32	0.00	3.08	1	0	3	38	50	-12
1116+00.00	46.80	0.73	0.00	0.26	2	0	3	40	54	-14
1116+44.80	44.80	1.45	0.00	0.00	2	0	0	42	54	-12

NOTES:	
1 - CUT	CUT INCLUDES SALVAGED/UNUSABLE PAVEMENT MATERIAL
2 - SALVAGED/UNUSABLE PAVEMENT MATERIAL	THIS DOES NOT SHOW UP IN CROSS SECTIONS
3 - FILL	DOES NOT INCLUDE UNUSABLE PAVEMENT EXC VOLUME
4 - EXPANDED MARSH BACKFILL	WILL BE BACKFILLED WITH GRANULAR BACKFILL (OR CUT, OR BORROW)
6 - REDUCED MARSH IN FILL	REDUCED MARSH EXCAVATION THAT CAN BE USED IN FILL
8 - MASS ORDINATE	IF MARSH OR EBS TO BE BACKFILLED WITH COMMON OR BORROW: [(CUT - SALVAGED PAVT - EXPANDED MARSH EXC - EXPANDED EBS) - ((FILL - REDUCED MARSH IN FILL - REDUCED EBS IN FILL - EXPANDED ROCK) * FILL FACTOR)]

9 9

PROJECT NO: 1166-04-85 | HWY: IH 39 | COUNTY: MARQUETTE | EARTHWORK DATA | SHEET 327 E

IH 39 1175+00 TO 1183+88.10

STATION	DISTANCE	AREA (SF)			INCREMENTAL VOL (CY) (UNADJUSTED)			CUMULATIVE VOL (CY)		
		CUT	SALVAGED/UNUSABLE PAVEMENT MATERIAL	FILL	CUT	SALVAGED/UNUSABLE PAVEMENT MATERIAL	FILL	CUT 1.00	EXPANDED FILL 1.25	MASS ORDINATE
					NOTE 1	NOTE 2	NOTE 3	NOTE 1		NOTE 8
1175+00.00	0.00	35.46	0.00	0.00	0	0	0	0	0	0
1175+50.36	50.36	31.71	0.00	0.00	63	0	0	63	0	63
1175+53.56	3.20	24.95	0.00	0.00	3	0	0	66	0	66
1175+78.56	24.99	8.77	0.00	0.00	16	0	0	82	0	82
1176+03.68	25.13	4.89	0.00	0.22	6	0	0	88	0	88
1176+32.95	29.27	5.96	0.00	0.00	6	0	0	94	0	94
1176+50.00	17.05	4.85	0.00	0.00	3	0	0	97	0	97
1177+00.00	50.00	3.29	0.00	0.00	8	0	0	105	0	105
1177+25.75	25.75	3.11	0.00	0.00	3	0	0	108	0	108
1177+25.75	0.00	3.11	0.00	0.00	0	0	0	108	0	108
1177+50.00	24.25	1.89	0.00	0.01	2	0	0	110	0	110
1178+00.00	50.00	1.65	0.00	0.45	3	0	0	113	0	113
1178+50.00	50.00	0.88	0.00	0.03	2	0	0	115	0	115
1179+00.00	50.00	0.46	0.00	0.24	1	0	0	116	0	116
1179+50.00	50.00	1.65	0.00	0.00	2	0	0	118	0	118
1180+00.00	50.00	1.50	0.00	0.00	3	0	0	121	0	121
1180+50.00	50.00	1.13	0.00	0.00	2	0	0	123	0	123
1181+00.00	50.00	0.88	0.00	0.02	2	0	0	125	0	125
1181+50.00	50.00	1.20	0.00	0.00	2	0	0	127	0	127
1182+00.00	50.00	1.41	0.00	0.00	2	0	0	129	0	129
1182+45.90	45.90	1.63	0.00	0.00	3	0	0	132	0	132
1182+49.00	3.10	1.57	0.00	0.00	0	0	0	132	0	132
1182+74.00	25.00	0.67	0.00	0.51	1	0	0	133	0	133
1182+99.00	25.00	0.00	0.00	67.21	0	0	31	133	39	94
1183+19.00	20.00	0.14	0.00	45.92	0	0	42	133	91	42
1183+50.00	31.00	0.10	0.00	24.30	0	0	40	133	141	-8
1183+88.10	38.10	0.18	0.00	0.99	0	0	18	133	164	-31

IH 39 1257+94.72 TO 1261+00

STATION	DISTANCE	AREA (SF)			INCREMENTAL VOL (CY) (UNADJUSTED)			CUMULATIVE VOL (CY)		
		CUT	SALVAGED/UNUSABLE PAVEMENT MATERIAL	FILL	CUT	SALVAGED/UNUSABLE PAVEMENT MATERIAL	FILL	CUT 1.00	EXPANDED FILL 1.25	MASS ORDINATE
					NOTE 1	NOTE 2	NOTE 3	NOTE 1		NOTE 8
1257+94.72	0.00	4.10	0.00	0.00	0	0	0	0	0	0
1258+50.00	55.28	2.29	0.00	0.00	7	0	0	7	0	7
1259+00.00	50.00	3.29	0.00	0.00	5	0	0	12	0	12
1259+50.00	50.00	1.49	0.00	0.00	4	0	0	16	0	16
1260+00.00	50.00	1.03	0.00	0.00	2	0	0	18	0	18
1260+50.00	50.00	1.58	0.00	0.00	2	0	0	20	0	20
1261+00.00	50.00	4.53	0.00	2.17	6	0	2	26	3	24

NOTES:	
1 - CUT	CUT INCLUDES SALVAGED/UNUSABLE PAVEMENT MATERIAL
2 - SALVAGED/UNUSABLE PAVEMENT MATERIAL	THIS DOES NOT SHOW UP IN CROSS SECTIONS
3 - FILL	DOES NOT INCLUDE UNUSABLE PAVEMENT EXC VOLUME
4 - EXPANDED MARSH BACKFILL	WILL BE BACKFILLED WITH GRANULAR BACKFILL (OR CUT, OR BORROW)
6 - REDUCED MARSH IN FILL	REDUCED MARSH EXCAVATION THAT CAN BE USED IN FILL
8 - MASS ORDINATE	IF MARSH OR EBS TO BE BACKFILLED WITH COMMON OR BORROW: [(CUT - SALVAGED PAVT - EXPANDED MARSH EXC - EXPANDED EBS) - ((FILL - REDUCED MARSH IN FILL - REDUCED EBS IN FILL - EXPANDED ROCK) * FILL FACTOR)]

IH 39 1262+55 TO 1267+73.75

STATION	DISTANCE	AREA (SF)			INCREMENTAL VOL (CY) (UNADJUSTED)			CUMULATIVE VOL (CY)		
		CUT	SALVAGED/UNUSABLE PAVEMENT MATERIAL	FILL	CUT	SALVAGED/UNUSABLE PAVEMENT MATERIAL	FILL	CUT 1.00	EXPANDED FILL 1.25	MASS ORDINATE
					NOTE 1	NOTE 2	NOTE 3	NOTE 1		NOTE 8
1262+55.00	0.00	19.79	0.00	0.23	0	0	0	0	0	0
1263+00.00	45.00	4.21	0.00	0.00	20	0	0	20	0	20
1263+50.00	50.00	4.05	0.00	0.01	8	0	0	28	0	28
1264+00.00	50.00	2.24	0.00	0.17	6	0	0	34	0	34
1264+50.00	50.00	2.02	0.00	0.20	4	0	0	38	0	38
1265+00.00	50.00	1.06	0.00	0.25	3	0	0	41	0	41
1265+19.76	19.76	0.83	0.00	0.26	1	0	0	42	0	42
1265+22.91	3.15	0.78	0.00	0.27	0	0	0	42	0	42
1265+48.11	25.20	0.92	0.00	0.51	1	0	0	43	0	43
1265+50.00	1.89	0.93	0.00	0.55	0	0	0	43	0	43
1265+73.32	23.32	0.83	0.00	8.81	1	0	4	44	5	39
1265+86.67	13.35	1.02	0.00	8.04	0	0	4	44	10	34
1265+87.32	0.65	1.03	0.00	8.02	0	0	0	44	10	34
1265+89.79	2.46	0.99	0.00	7.93	0	0	1	44	11	33
1266+00.00	10.22	0.76	0.00	7.57	0	0	3	44	15	29
1266+14.72	14.72	0.44	0.00	7.76	0	0	4	44	20	24
1266+39.65	24.93	0.16	0.00	9.37	0	0	8	44	30	14
1266+50.00	10.35	0.17	0.00	5.65	0	0	3	44	34	10
1266+75.94	25.93	0.41	0.00	1.72	0	0	4	44	39	5
1266+89.65	13.71	0.57	0.00	0.57	0	0	1	44	40	4
1267+00.00	10.36	0.54	0.00	0.67	0	0	0	44	40	4
1267+50.00	50.00	0.97	0.00	0.03	1	0	1	45	41	4
1267+73.75	23.75	3.44	0.00	0.00	2	0	0	47	41	6

NOTES:	
1 - CUT	CUT INCLUDES SALVAGED/UNUSABLE PAVEMENT MATERIAL
2 - SALVAGED/UNUSABLE PAVEMENT MATERIAL	THIS DOES NOT SHOW UP IN CROSS SECTIONS
3 - FILL	DOES NOT INCLUDE UNUSABLE PAVEMENT EXC VOLUME
4 - EXPANDED MARSH BACKFILL	WILL BE BACKFILLED WITH GRANULAR BACKFILL (OR CUT, OR BORROW)
6 - REDUCED MARSH IN FILL	REDUCED MARSH EXCAVATION THAT CAN BE USED IN FILL
8 - MASS ORDINATE	IF MARSH OR EBS TO BE BACKFILLED WITH COMMON OR BORROW: [(CUT - SALVAGED PAVT - EXPANDED MARSH EXC - EXPANDED EBS) - ((FILL - REDUCED MARSH IN FILL - REDUCED EBS IN FILL - EXPANDED ROCK) * FILL FACTOR)]

9

9

PROJECT NO: 1166-04-85 | HWY: IH 39 | COUNTY: MARQUETTE | EARTHWORK DATA | SHEET E

FILE NAME : G:\00\00093\00093777\CADD\SHEETSOTHER\090101_EW.DWG
LAYOUT NAME - 01

PLOT DATE : 3/28/2025 2:28 PM PLOT BY : JARED HANN PLOT NAME : PLOT SCALE : 1" = 1'

WISDOT/CADDS SHEET 49

CTH E/J EB 116+67.28 TO 123+71

STATION	DISTANCE	AREA (SF)			INCREMENTAL VOL (CY) (UNADJUSTED)			CUMULATIVE VOL (CY)		
		CUT	SALVAGED/UNUSABLE PAVEMENT MATERIAL	FILL	CUT	SALVAGED/UNUSABLE PAVEMENT MATERIAL	FILL	CUT 1.00	EXPANDED FILL 1.25	MASS ORDINATE
					NOTE 1	NOTE 2	NOTE 3	NOTE 1		NOTE 8
116+67.28	0.00	40.95	0.00	2.25	0	0	0	0	0	0
117+16.50	49.22	43.85	0.00	0.00	77	0	2	77	3	75
117+50.00	33.50	51.48	0.00	0.00	59	0	0	136	3	134
117+61.24	11.24	56.46	0.00	0.00	22	0	0	158	3	156
117+86.31	25.07	72.19	0.00	0.00	60	0	0	218	3	216
118+00.00	13.69	59.60	0.00	0.00	33	0	0	251	3	249
118+50.00	50.00	50.61	0.00	1.11	102	0	1	353	4	349
119+00.00	50.00	51.19	0.00	0.00	94	0	1	447	5	442
119+50.00	50.00	53.17	0.00	1.30	97	0	1	544	6	538
120+00.00	50.00	54.42	0.00	3.20	100	0	4	644	11	633
120+50.00	50.00	50.72	0.00	3.42	97	0	6	741	19	722
121+00.00	50.00	53.91	0.00	1.13	97	0	4	838	24	814
121+50.00	50.00	54.50	0.00	0.02	100	0	1	938	25	913
122+00.00	50.00	59.16	0.00	0.00	105	0	0	1,043	25	1,018
122+31.04	31.04	61.28	0.00	0.00	69	0	0	1,112	25	1,087
122+50.00	18.96	56.03	0.00	0.00	41	0	0	1,153	25	1,128
123+00.00	50.00	49.27	0.00	0.00	98	0	0	1,251	25	1,226
123+71.00	71.00	44.01	0.00	0.14	123	0	0	1,374	25	1,349

NOTES:	
1 - CUT	CUT INCLUDES SALVAGED/UNUSABLE PAVEMENT MATERIAL
2 - SALVAGED/UNUSABLE PAVEMENT MATERIAL	THIS DOES NOT SHOW UP IN CROSS SECTIONS
3 - FILL	DOES NOT INCLUDE UNUSABLE PAVEMENT EXC VOLUME
4 - EXPANDED MARSH BACKFILL	WILL BE BACKFILLED WITH GRANULAR BACKFILL (OR CUT, OR BORROW)
6 - REDUCED MARSH IN FILL	REDUCED MARSH EXCAVATION THAT CAN BE USED IN FILL
8 - MASS ORDINATE	IF MARSH OR EBS TO BE BACKFILLED WITH COMMON OR BORROW: [(CUT - SALVAGED PAVT - EXPANDED MARSH EXC - EXPANDED EBS) - ((FILL - REDUCED MARSH IN FILL - REDUCED EBS IN FILL - EXPANDED ROCK) * FILL FACTOR)]

CTH E/J WB 216+55.40 TO 223+49

STATION	DISTANCE	AREA (SF)			INCREMENTAL VOL (CY) (UNADJUSTED)			CUMULATIVE VOL (CY)		
		CUT	SALVAGED/UNUSABLE PAVEMENT MATERIAL	FILL	CUT	SALVAGED/UNUSABLE PAVEMENT MATERIAL	FILL	CUT 1.00	EXPANDED FILL 1.25	MASS ORDINATE
					NOTE 1	NOTE 2	NOTE 3	NOTE 1		NOTE 8
216+55.40	0.00	41.90	0.00	0.00	0	0	0	0	0	0
217+17.00	61.60	55.65	0.00	0.00	111	0	0	111	0	111
217+50.00	33.00	50.82	0.00	0.00	65	0	0	176	0	176
217+88.00	38.00	65.13	0.00	0.00	82	0	0	258	0	258
218+00.00	12.00	62.39	0.00	0.00	28	0	0	286	0	286
218+50.00	50.00	65.33	0.00	0.00	118	0	0	404	0	404
219+00.00	50.00	62.03	0.00	7.95	118	0	7	522	9	513
219+50.00	50.00	51.00	0.00	7.78	105	0	15	627	28	600
220+00.00	50.00	52.31	0.00	6.50	96	0	13	723	44	679
220+50.00	50.00	48.70	0.00	8.20	94	0	14	817	61	756
221+00.00	50.00	52.74	0.00	3.61	94	0	11	911	75	836
221+50.00	50.00	48.36	0.00	0.00	94	0	3	1,005	79	926
222+00.00	50.00	51.64	0.00	0.00	93	0	0	1,098	79	1,019
222+31.51	31.51	60.09	0.00	0.00	65	0	0	1,163	79	1,084
222+50.00	18.49	53.61	0.00	0.00	39	0	0	1,202	79	1,123
223+00.00	50.00	54.22	0.00	0.00	100	0	0	1,302	79	1,223
223+16.04	16.04	45.31	0.00	0.00	30	0	0	1,332	79	1,253
223+49.00	32.96	45.72	0.00	0.00	56	0	0	1,388	79	1,309

IH 39 ON RAMP 429+00.40 TO 430+70.67

STATION	DISTANCE	AREA (SF)			INCREMENTAL VOL (CY) (UNADJUSTED)			CUMULATIVE VOL (CY)		
		CUT	SALVAGED/UNUSABLE PAVEMENT MATERIAL	FILL	CUT	SALVAGED/UNUSABLE PAVEMENT MATERIAL	FILL	CUT 1.00	EXPANDED FILL 1.25	MASS ORDINATE
					NOTE 1	NOTE 2	NOTE 3	NOTE 1		NOTE 8
429+00.40	0.00	64.70	0.00	0.00	0	0	0	0	0	0
429+50.00	49.60	65.44	0.00	0.00	120	0	0	120	0	120
430+00.00	50.00	74.24	0.00	0.00	129	0	0	249	0	249
430+00.00	0.00	0.00	0.00	0.00	0	0	0	249	0	249
430+15.38	15.38	66.01	0.00	0.18	19	0	0	268	0	268
430+30.38	15.00	66.39	0.00	0.55	37	0	0	305	0	305
430+50.00	19.62	65.31	0.00	0.20	48	0	0	353	0	353
430+70.68	20.68	40.93	0.00	1.54	41	0	1	394	1	393

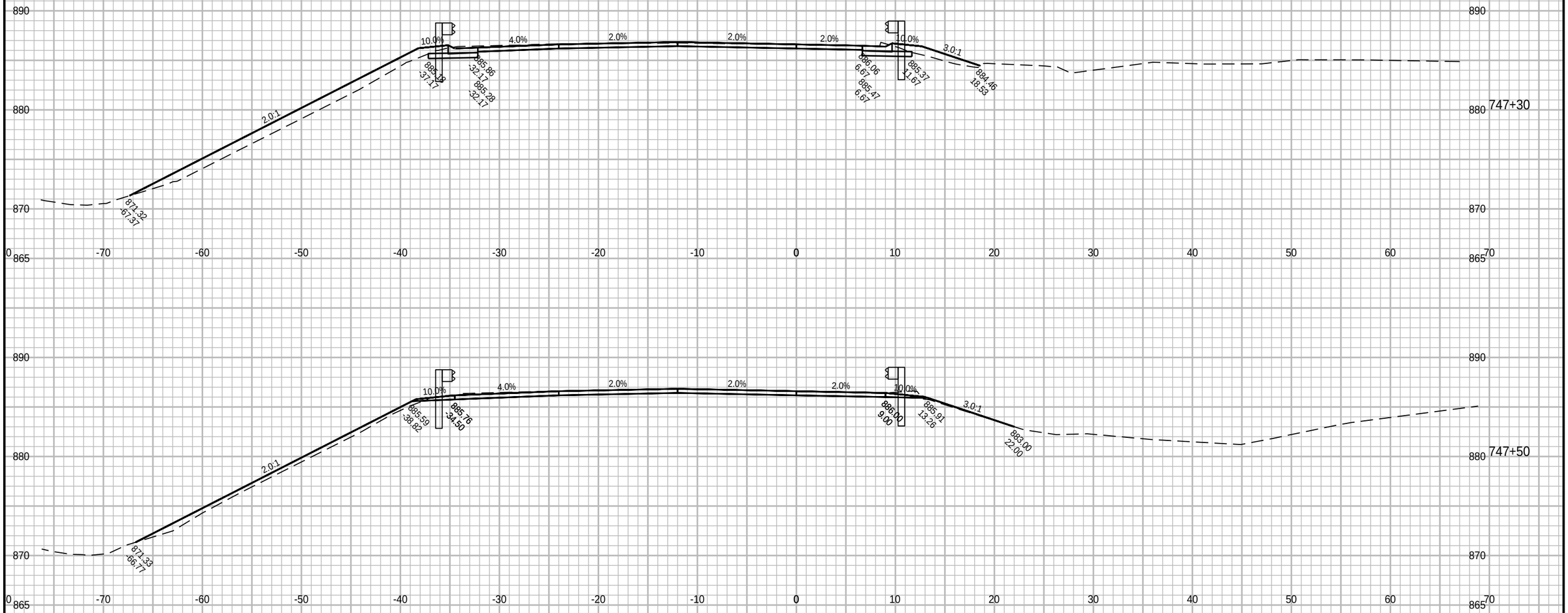
NOTES:	
1 - CUT	CUT INCLUDES SALVAGED/UNUSABLE PAVEMENT MATERIAL
2 - SALVAGED/UNUSABLE PAVEMENT MATERIAL	THIS DOES NOT SHOW UP IN CROSS SECTIONS
3 - FILL	DOES NOT INCLUDE UNUSABLE PAVEMENT EXC VOLUME
4 - EXPANDED MARSH BACKFILL	WILL BE BACKFILLED WITH GRANULAR BACKFILL (OR CUT, OR BORROW)
6 - REDUCED MARSH IN FILL	REDUCED MARSH EXCAVATION THAT CAN BE USED IN FILL
8 - MASS ORDINATE	IF MARSH OR EBS TO BE BACKFILLED WITH COMMON OR BORROW: [(CUT - SALVAGED PAVT - EXPANDED MARSH EXC - EXPANDED EBS) - ((FILL - REDUCED MARSH IN FILL - REDUCED EBS IN FILL - EXPANDED ROCK) * FILL FACTOR)]

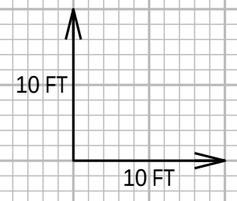
IH 39 OFF RAMP 431+26.31 TO 433+23

STATION	DISTANCE	AREA (SF)			INCREMENTAL VOL (CY) (UNADJUSTED)			CUMULATIVE VOL (CY)		
		CUT	SALVAGED/UNUSABLE PAVEMENT MATERIAL	FILL	CUT	SALVAGED/UNUSABLE PAVEMENT MATERIAL	FILL	CUT	EXPANDED FILL	MASS ORDINATE
					NOTE 1	NOTE 2	NOTE 3	1.00 NOTE 1	1.25	NOTE 8
431+26.31	0.00	111.89	0.00	1.13	0	0	0	0	0	0
431+50.00	23.69	80.95	0.00	1.46	85	0	1	85	1	84
431+56.13	6.13	40.13	0.00	1.91	14	0	0	99	1	98
431+79.28	23.15	27.93	0.00	0.00	29	0	1	128	3	126
432+00.00	20.72	72.21	0.00	0.00	38	0	0	166	3	164
432+50.00	50.00	59.06	0.00	0.00	122	0	0	288	3	286
433+00.00	50.00	49.82	0.00	0.00	101	0	0	389	3	387
433+23.00	23.00	48.36	0.00	0.00	42	0	0	431	3	429

NOTES:	
1 - CUT	CUT INCLUDES SALVAGED/UNUSABLE PAVEMENT MATERIAL
2 - SALVAGED/UNUSABLE PAVEMENT MATERIAL	THIS DOES NOT SHOW UP IN CROSS SECTIONS
3 - FILL	DOES NOT INCLUDE UNUSABLE PAVEMENT EXC VOLUME
4 - EXPANDED MARSH BACKFILL	WILL BE BACKFILLED WITH GRANULAR BACKFILL (OR CUT, OR BORROW)
6 - REDUCED MARSH IN FILL	REDUCED MARSH EXCAVATION THAT CAN BE USED IN FILL
8 - MASS ORDINATE	IF MARSH OR EBS TO BE BACKFILLED WITH COMMON OR BORROW: [(CUT - SALVAGED PAVT - EXPANDED MARSH EXC - EXPANDED EBS) - ((FILL - REDUCED MARSH IN FILL - REDUCED EBS IN FILL - EXPANDED ROCK) * FILL FACTOR)]

RIGHT OF WAY (R/W) IS BEYOND EXTENTS OF THE CROSS SECTIONS. SEE PLANS FOR R/W LIMITS





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9

PROJECT NO: 1166-04-85	HWY: IH 39	COUNTY: MARQUETTE	CROSS SECTIONS: BEAMGUARD 745+00 - 760+00	SHEET 333	E

FILE NAME : G:\00\00093\00093777\CADD\SHEETSPLAN\090201-XS.DWG
LAYOUT NAME - 01

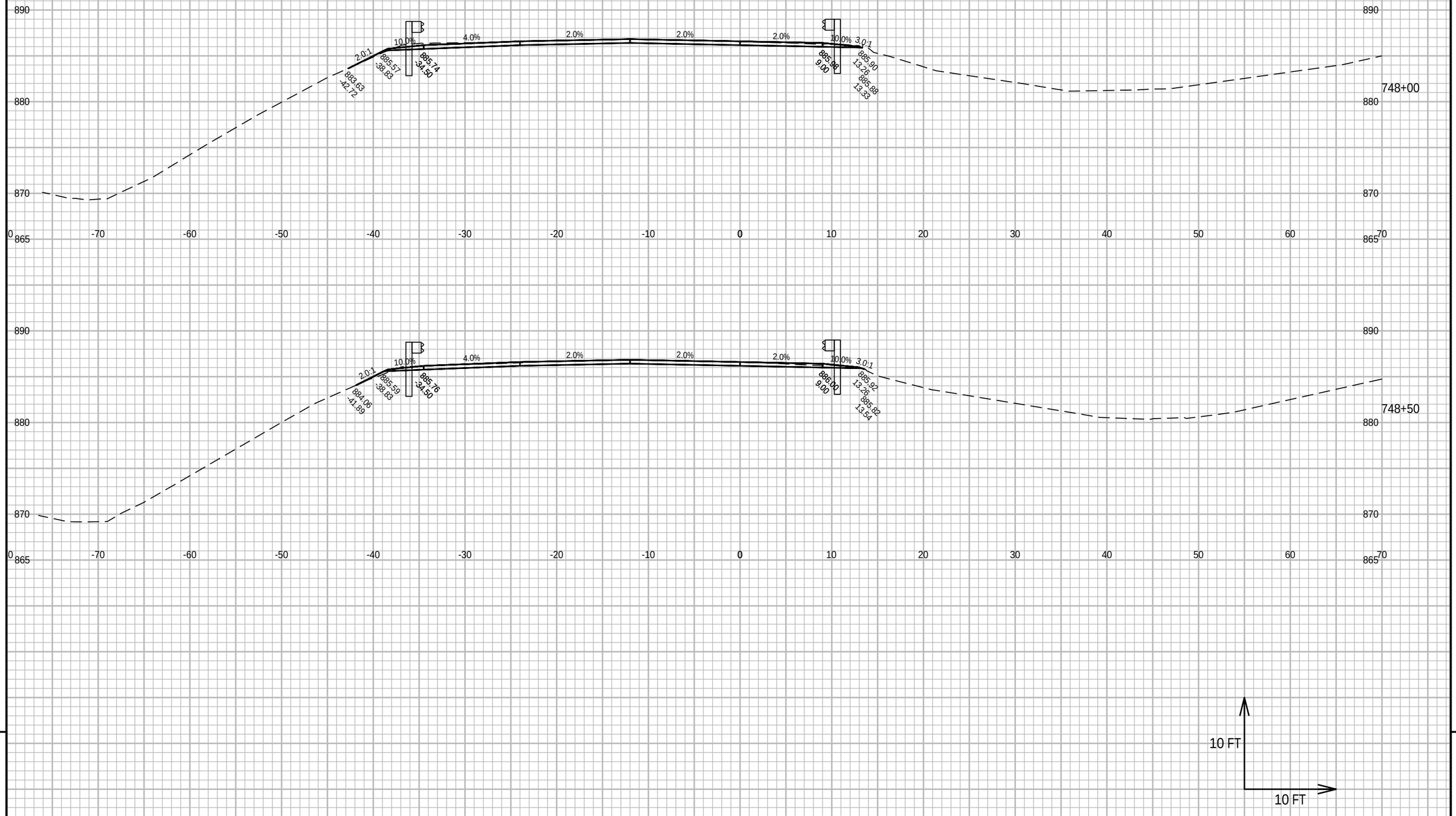
PLOT DATE : 6/27/2025 10:05 AM

PLOT BY : SHAWN DOLENS

PLOT NAME :

PLOT SCALE : 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

RIGHT OF WAY (R/W) IS BEYOND EXTENTS OF THE CROSS SECTIONS. SEE PLANS FOR R/W LIMITS



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PROJECT NO: 1166-04-85	HWY: IH 39	COUNTY: MARQUETTE	CROSS SECTIONS: BEAMGUARD 745+00 - 760+00	SHEET 334	E

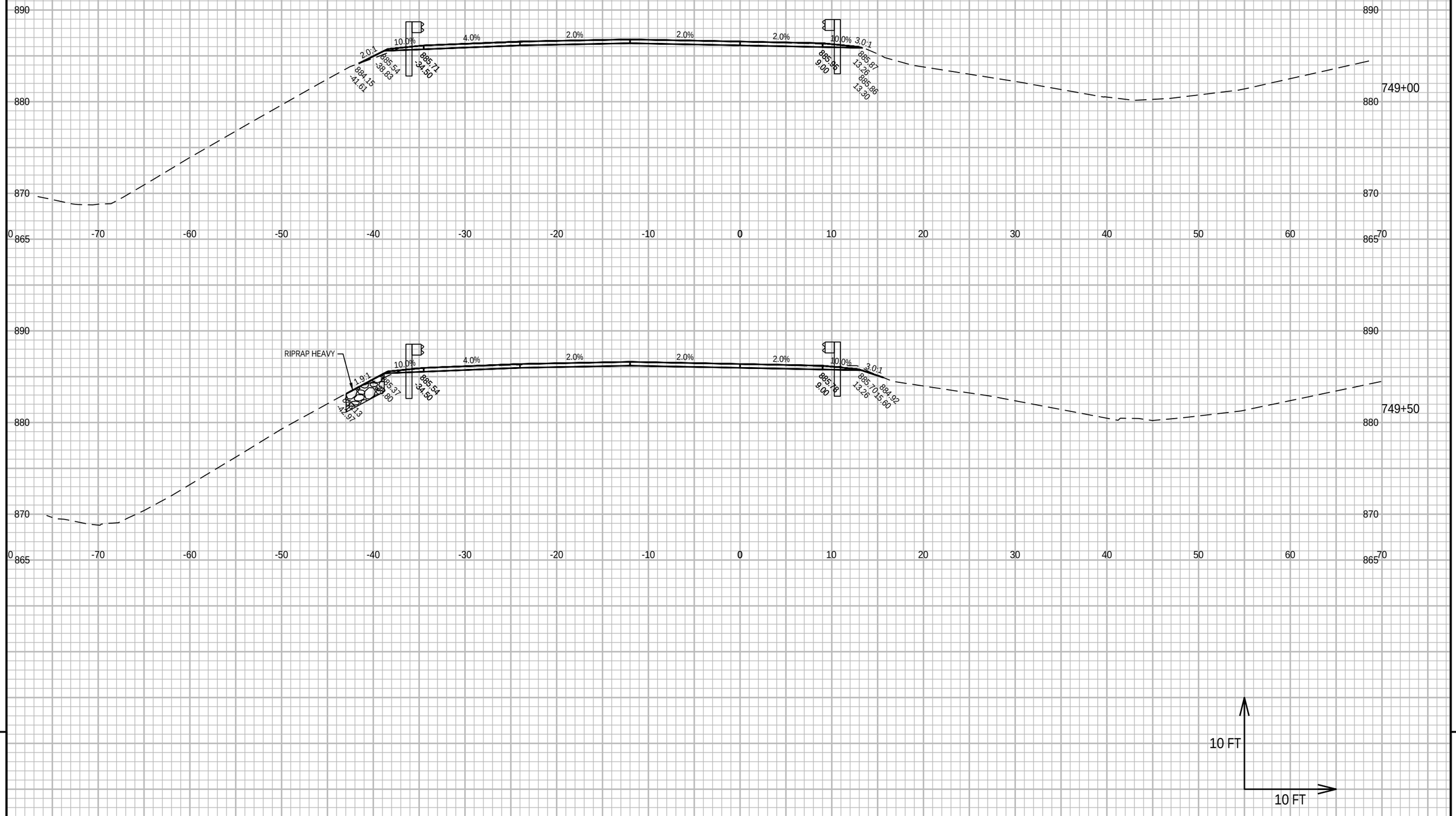
FILE NAME : G:\00\00093\00093777\CADD\SHEETSPLAN\090201-XS.DWG
LAYOUT NAME - 02

PLOT DATE : 6/27/2025 10:05 AM PLOT BY : SHAWN DOLENS PLOT NAME :

PLOT SCALE : 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49

RIGHT OF WAY (R/W) IS BEYOND EXTENTS OF THE CROSS SECTIONS. SEE PLANS FOR R/W LIMITS

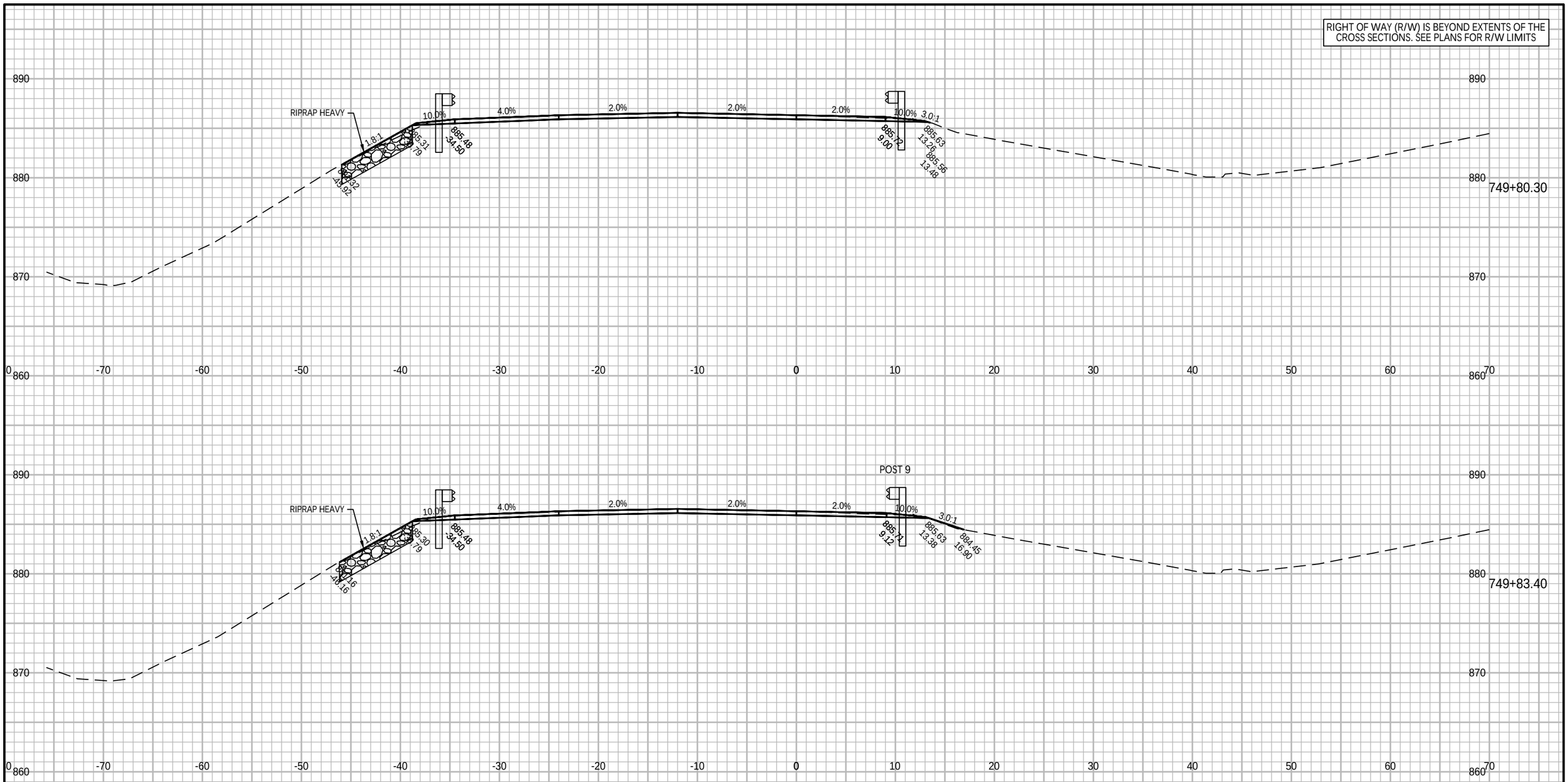


PROJECT NO: 1166-04-85	HWY: IH 39	COUNTY: MARQUETTE	CROSS SECTIONS: BEAMGUARD 745+00 - 760+00	SHEET 335	E

FILE NAME : G:\00\00093\00093777\CADD\SHEETSPLAN\090201-XS.DWG
LAYOUT NAME - 03

PLOT DATE : 6/27/2025 10:05 AM PLOT BY : SHAWN DOLENS PLOT NAME : **PLOT SCALE :** 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

RIGHT OF WAY (R/W) IS BEYOND EXTENTS OF THE CROSS SECTIONS. SEE PLANS FOR R/W LIMITS



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PROJECT NO: 1166-04-85	HWY: IH 39	COUNTY: MARQUETTE	CROSS SECTIONS: BEAMGUARD 745+00 - 760+00	SHEET 336	E

FILE NAME : G:\00\00093\00093777\CADD\SHEETSPLAN\090201-XS.DWG
LAYOUT NAME - 04

PLOT DATE : 6/27/2025 10:06 AM

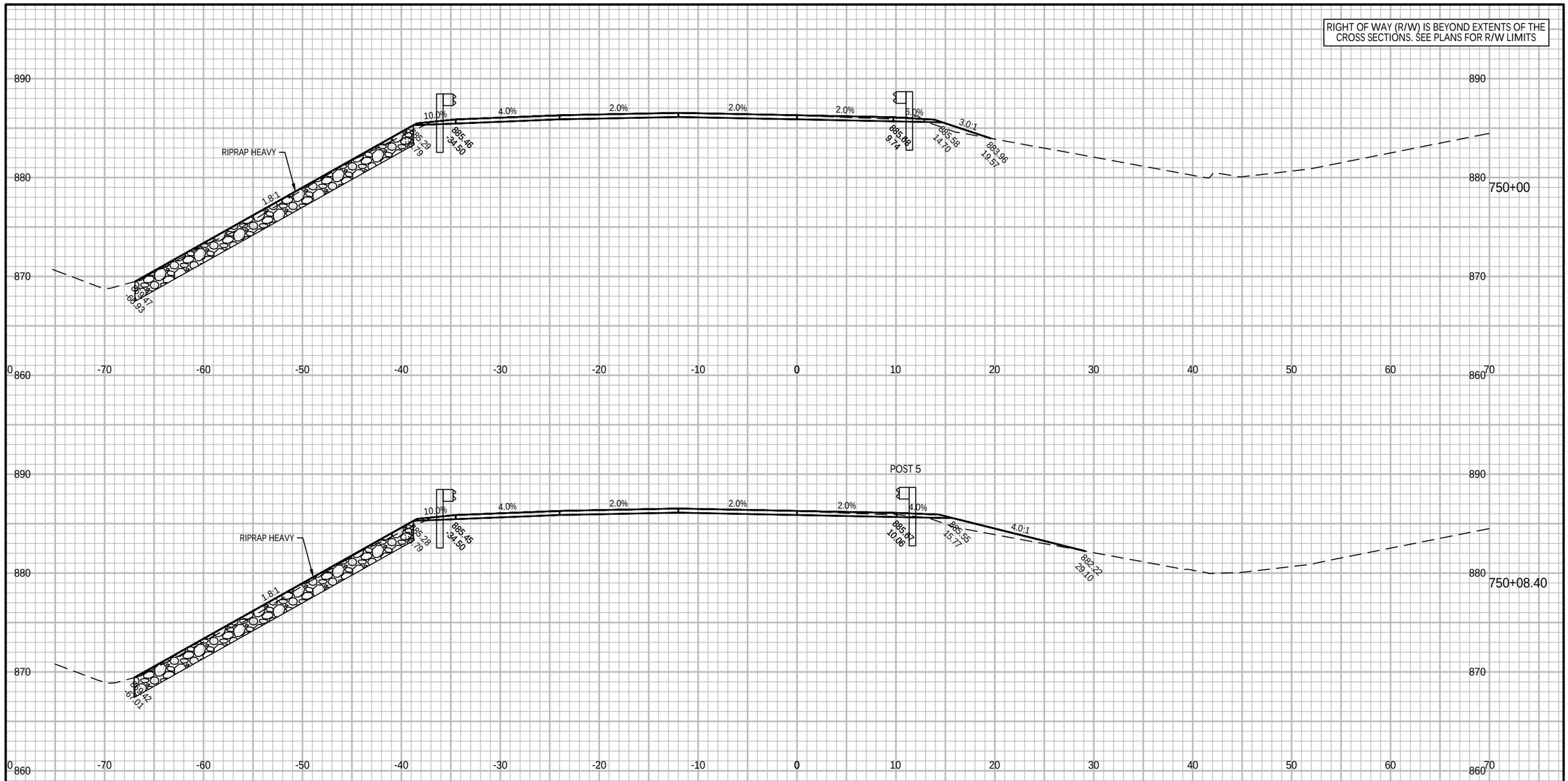
PLOT BY : SHAWN DOLENS

PLOT NAME :

PLOT SCALE : 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49

RIGHT OF WAY (R/W) IS BEYOND EXTENTS OF THE CROSS SECTIONS. SEE PLANS FOR R/W LIMITS



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9

PROJECT NO: 1166-04-85	HWY: IH 39	COUNTY: MARQUETTE	CROSS SECTIONS: BEAMGUARD 745+00 - 760+00	SHEET 337	E

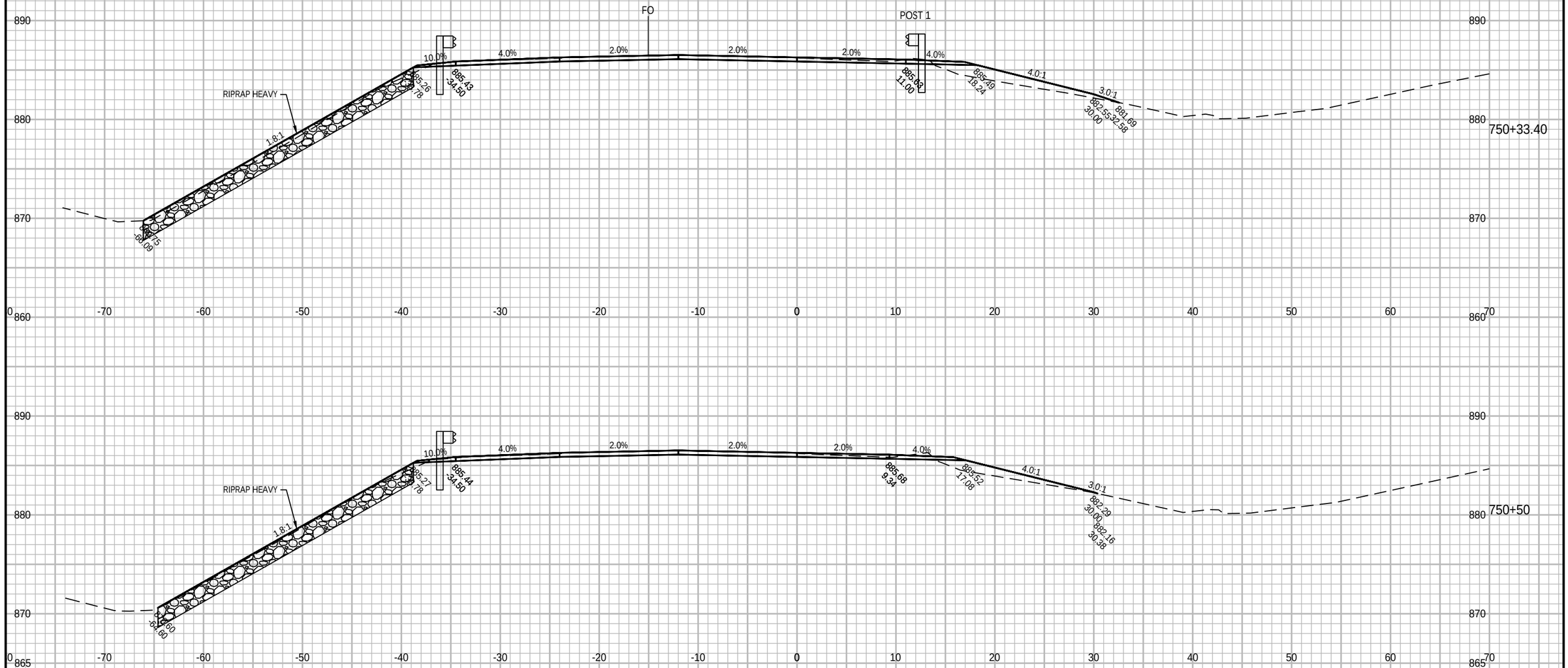
FILE NAME : G:\00\00093\00093777\CADD\SHEETSPLAN\090201-XS.DWG
LAYOUT NAME - 05

PLOT DATE : 6/27/2025 10:06 AM PLOT BY : SHAWN DOLENS PLOT NAME :

PLOT SCALE : 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49

RIGHT OF WAY (R/W) IS BEYOND EXTENTS OF THE CROSS SECTIONS. SEE PLANS FOR R/W LIMITS



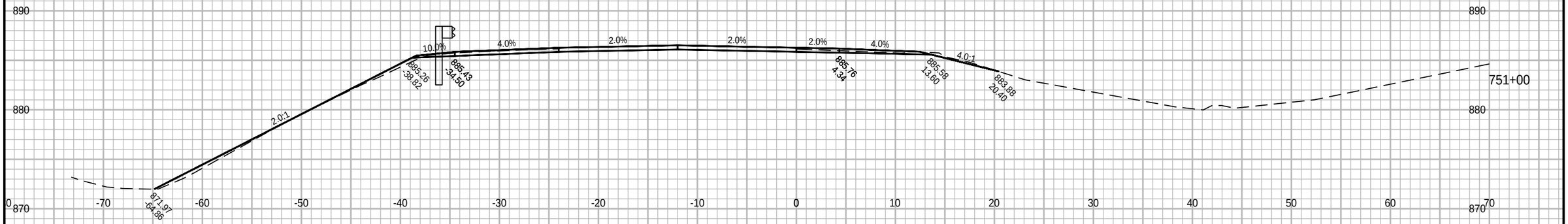
PROJECT NO: 1166-04-85	HWY: IH 39	COUNTY: MARQUETTE	CROSS SECTIONS: BEAMGUARD 745+00 - 760+00	SHEET 338	E

FILE NAME : G:\00\00093\00093777\CADD\SHEETSPLAN\090201-XS.DWG
LAYOUT NAME - 06

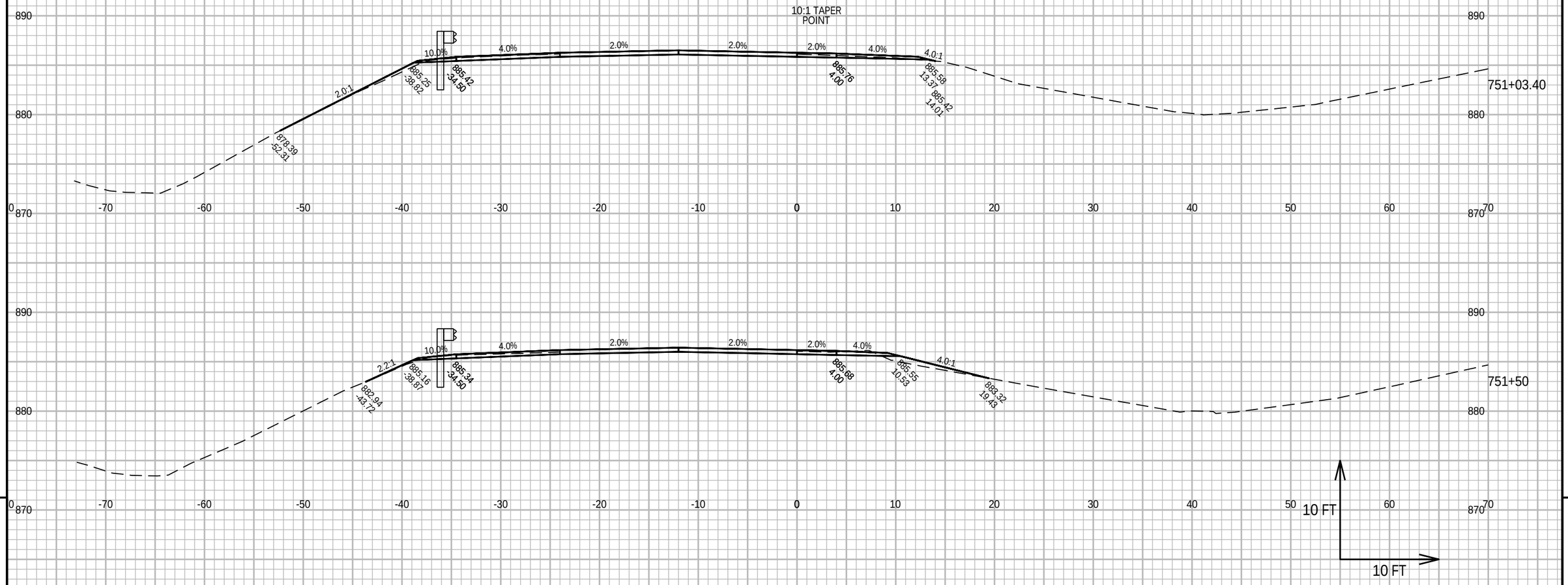
PLOT DATE : 6/27/2025 10:06 AM PLOT BY : SHAWN DOLENS PLOT NAME : PLOT SCALE : 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49

RIGHT OF WAY (R/W) IS BEYOND EXTENTS OF THE CROSS SECTIONS. SEE PLANS FOR R/W LIMITS



10:1 TAPER POINT



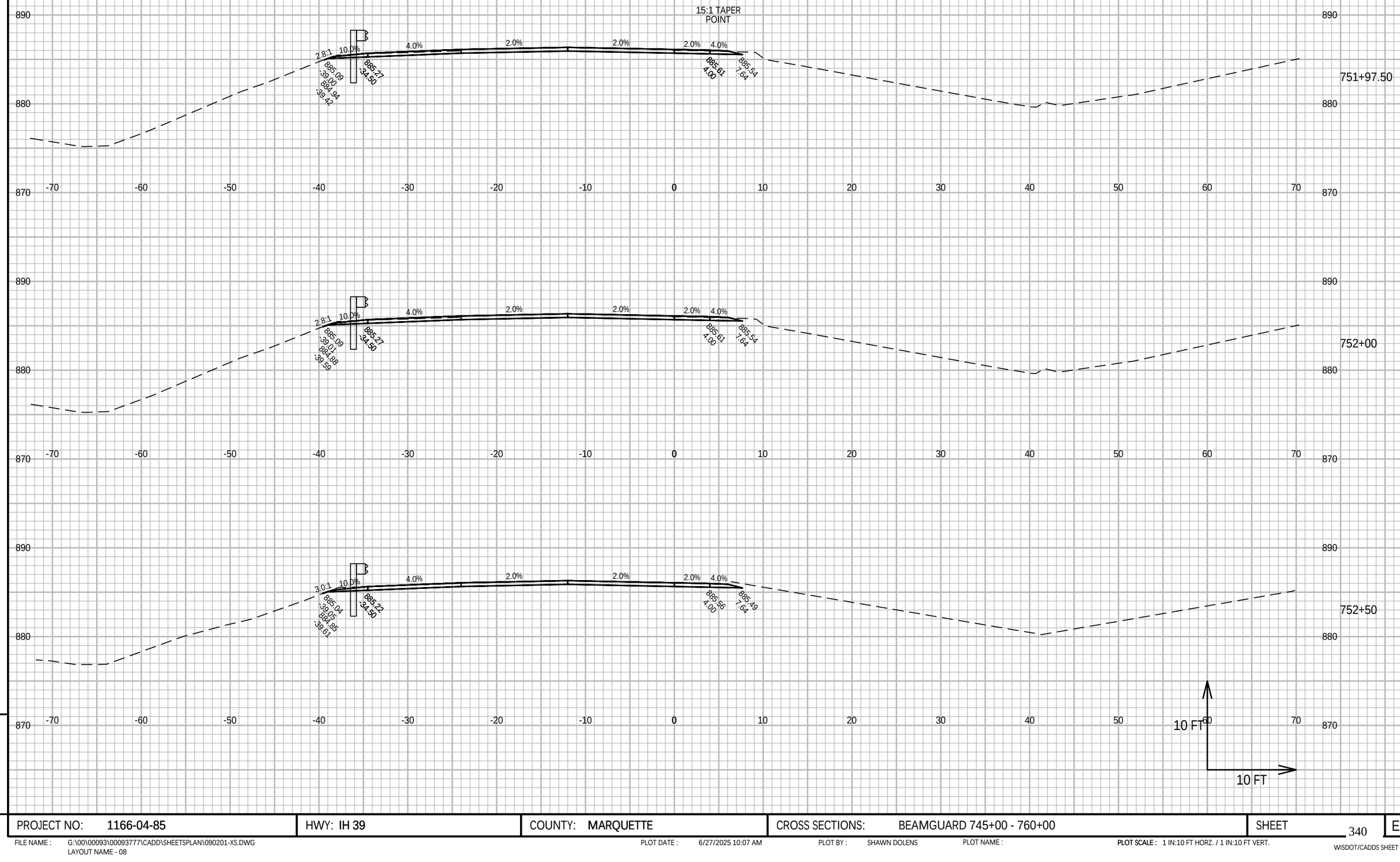
PROJECT NO: 1166-04-85	HWY: IH 39	COUNTY: MARQUETTE	CROSS SECTIONS: BEAMGUARD 745+00 - 760+00	SHEET 339	E

FILE NAME : G:\00\00093\00093777\CADD\SHEETSPLAN\090201-XS.DWG
LAYOUT NAME - 07

PLOT DATE : 6/27/2025 10:06 AM PLOT BY : SHAWN DOLENS PLOT NAME : **PLOT SCALE :** 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49

RIGHT OF WAY (R/W) IS BEYOND EXTENTS OF THE CROSS SECTIONS. SEE PLANS FOR R/W LIMITS



PROJECT NO: 1166-04-85	HWY: IH 39	COUNTY: MARQUETTE	CROSS SECTIONS: BEAMGUARD 745+00 - 760+00	SHEET 340	E

FILE NAME : G:\00\00093\00093777\CADD\SHEETSPLAN\090201-XS.DWG
LAYOUT NAME - 08

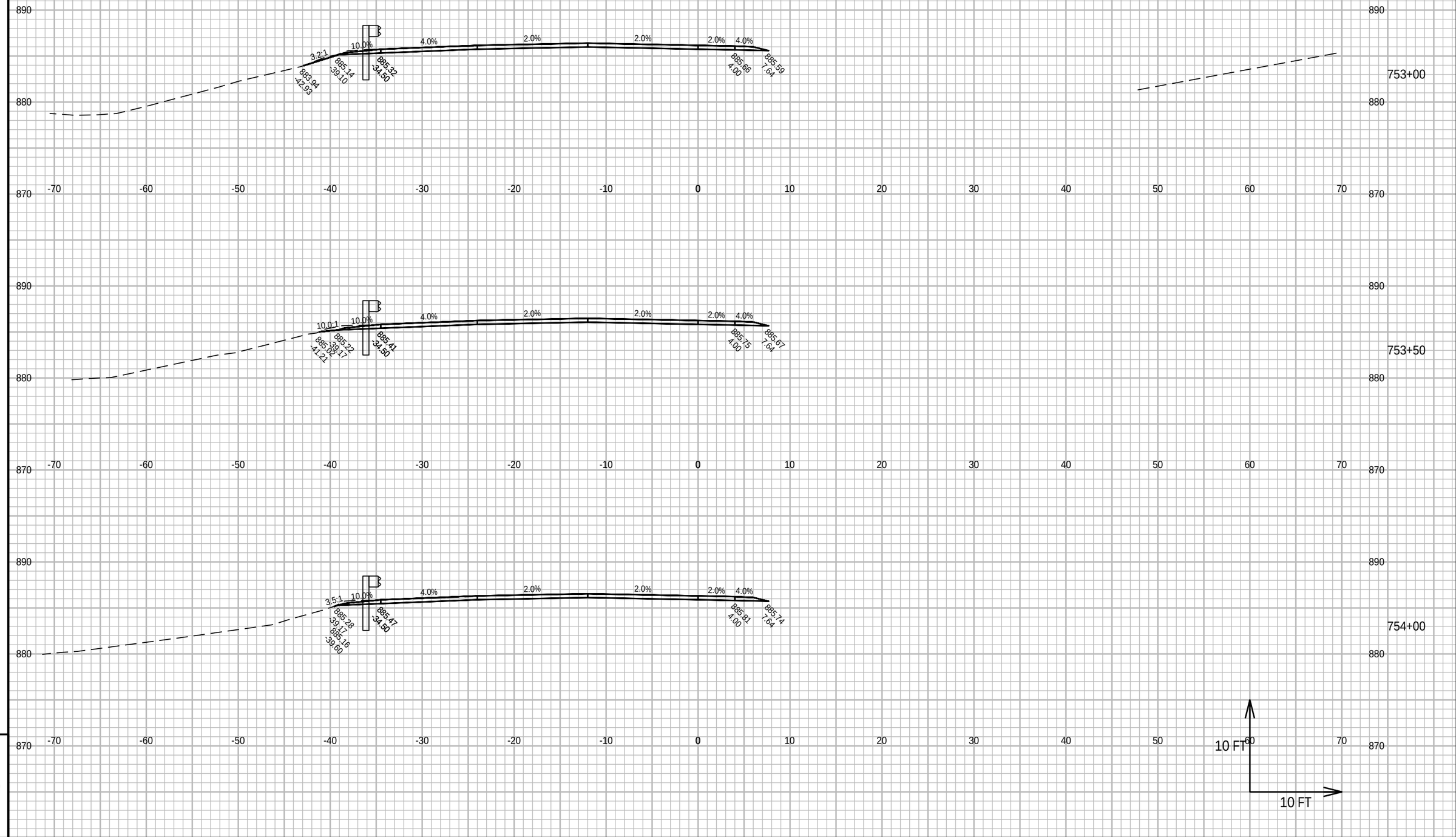
PLOT DATE : 6/27/2025 10:07 AM PLOT BY : SHAWN DOLENS PLOT NAME : PLOT SCALE : 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49

9

9

RIGHT OF WAY (R/W) IS BEYOND EXTENTS OF THE CROSS SECTIONS. SEE PLANS FOR R/W LIMITS



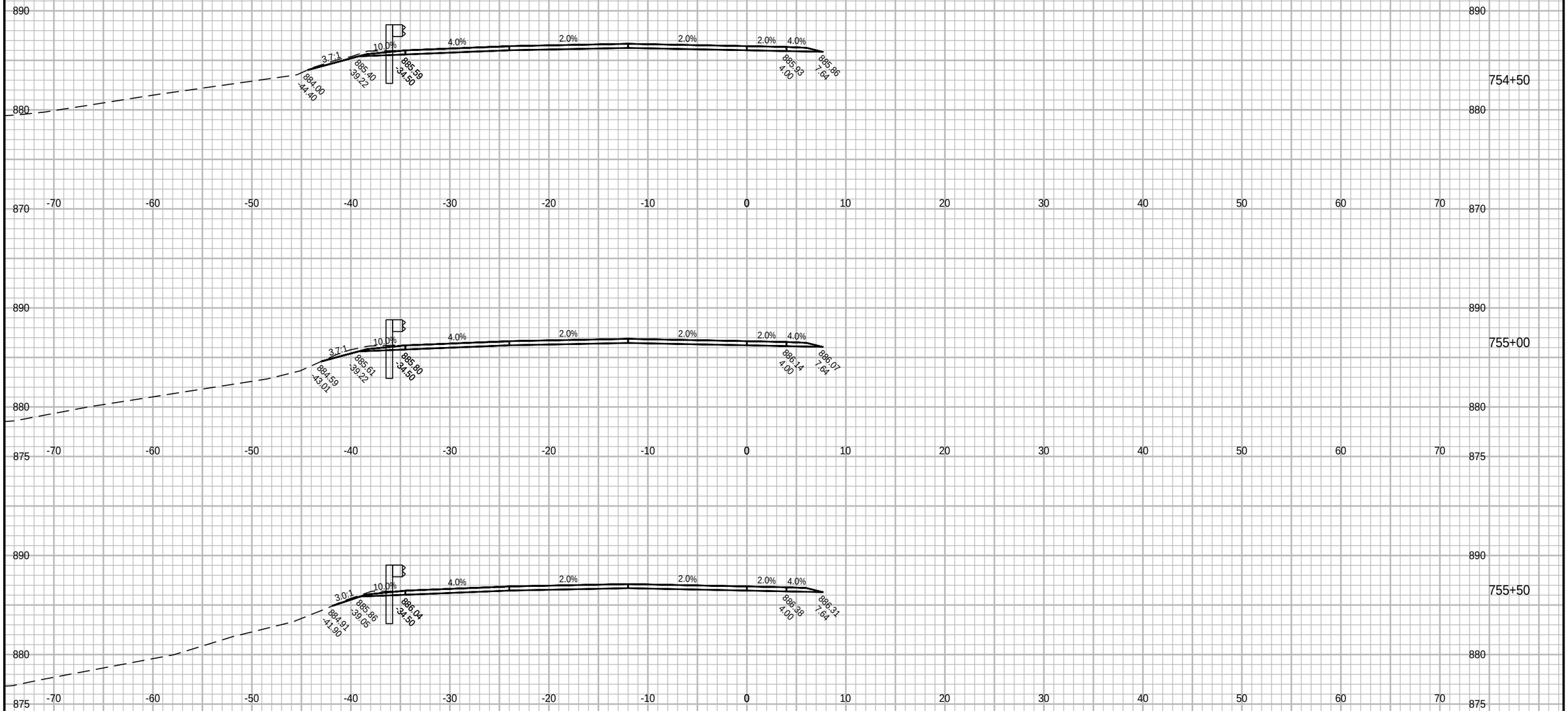
PROJECT NO: 1166-04-85	HWY: IH 39	COUNTY: MARQUETTE	CROSS SECTIONS: BEAMGUARD 745+00 - 760+00	SHEET 341	E

FILE NAME : G:\00\00093\00093777\CADD\SHEETSPLAN\090201-XS.DWG
LAYOUT NAME - 09

PLOT DATE : 6/27/2025 10:07 AM PLOT BY : SHAWN DOLENS PLOT NAME : PLOT SCALE : 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49

RIGHT OF WAY (R/W) IS BEYOND EXTENTS OF THE CROSS SECTIONS. SEE PLANS FOR R/W LIMITS



9

9

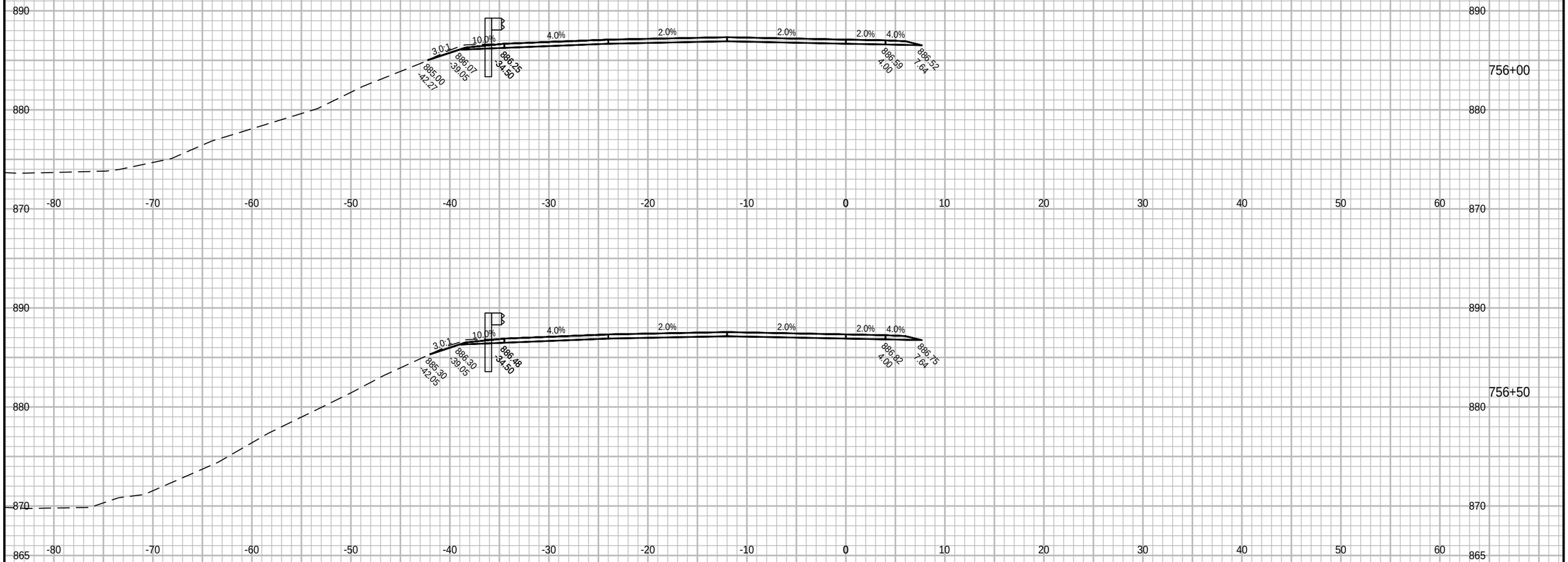
PROJECT NO: 1166-04-85	HWY: IH 39	COUNTY: MARQUETTE	CROSS SECTIONS: BEAMGUARD 745+00 - 760+00	SHEET 342	E

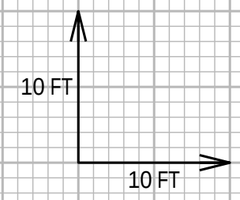
FILE NAME : G:\00\00093\00093777\CADD\SHEETSPLAN\090201-XS.DWG
LAYOUT NAME - 10

PLOT DATE : 6/27/2025 10:07 AM PLOT BY : SHAWN DOLENS PLOT NAME :

PLOT SCALE : 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

RIGHT OF WAY (R/W) IS BEYOND EXTENTS OF THE CROSS SECTIONS. SEE PLANS FOR R/W LIMITS





9

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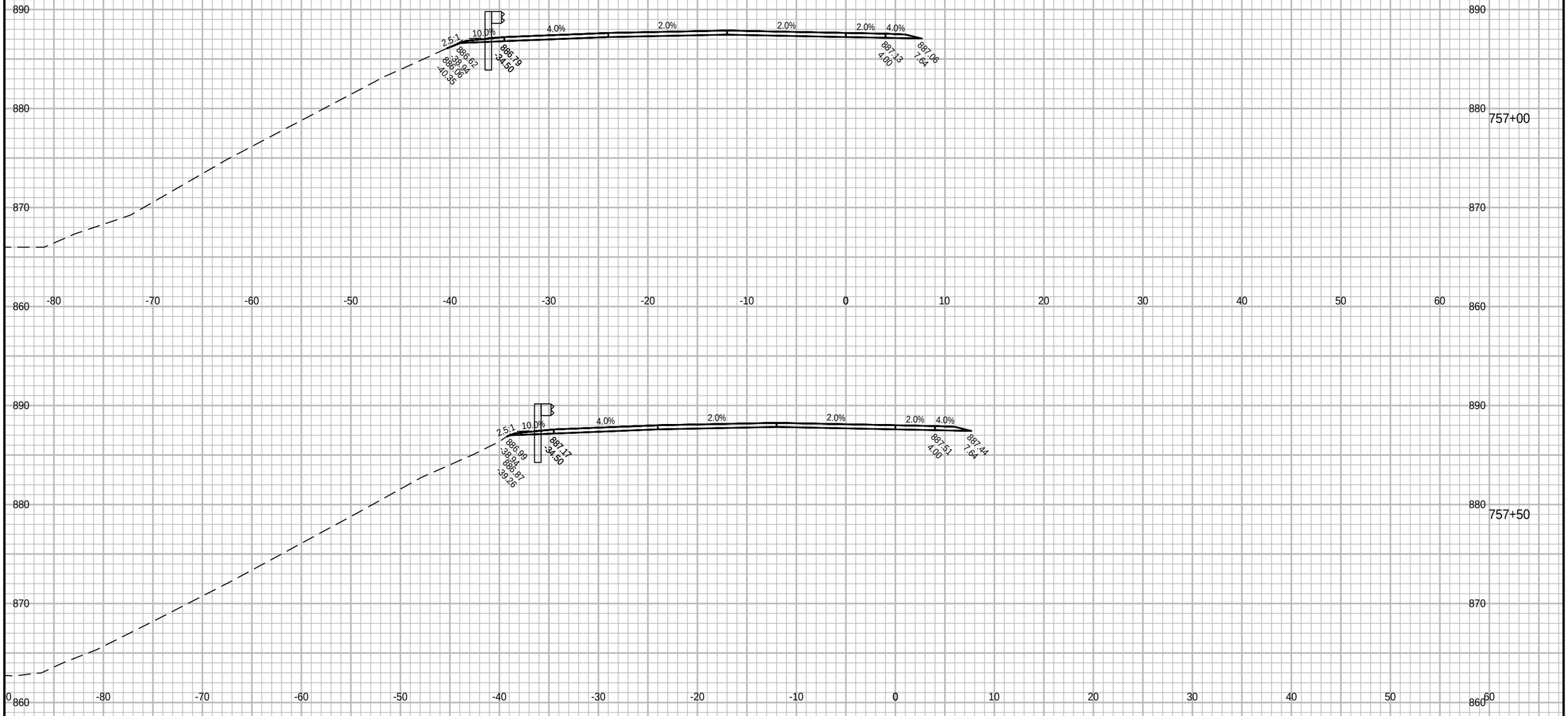
PROJECT NO: 1166-04-85	HWY: IH 39	COUNTY: MARQUETTE	CROSS SECTIONS: BEAMGUARD 745+00 - 760+00	SHEET 343	E

FILE NAME : G:\00\00093\00093777\CADD\SHEETSPLAN\090201-XS.DWG
LAYOUT NAME - 11

PLOT DATE : 6/27/2025 10:07 AM PLOT BY : SHAWN DOLENS PLOT NAME :

PLOT SCALE : 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

RIGHT OF WAY (R/W) IS BEYOND EXTENTS OF THE CROSS SECTIONS. SEE PLANS FOR R/W LIMITS



10 FT

10 FT

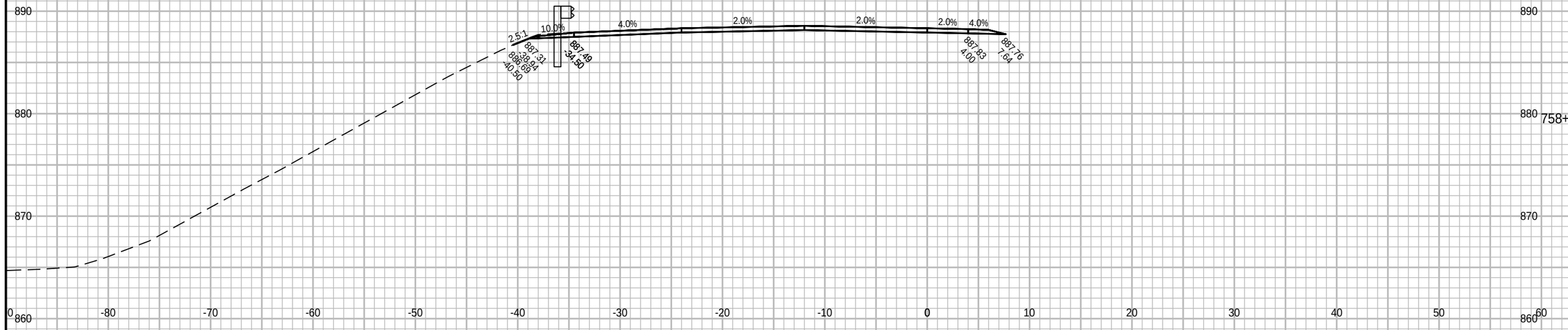
PROJECT NO: 1166-04-85	HWY: IH 39	COUNTY: MARQUETTE	CROSS SECTIONS: BEAMGUARD 745+00 - 760+00	SHEET 344	E

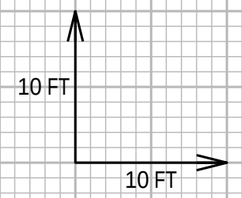
FILE NAME : G:\00\00093\00093777\CADD\SHEETSPLAN\090201-XS.DWG
LAYOUT NAME - 12

PLOT DATE : 6/27/2025 10:08 AM PLOT BY : SHAWN DOLENS PLOT NAME : PLOT SCALE : 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49

RIGHT OF WAY (R/W) IS BEYOND EXTENTS OF THE CROSS SECTIONS. SEE PLANS FOR R/W LIMITS





9

9

PROJECT NO: 1166-04-85	HWY: IH 39	COUNTY: MARQUETTE	CROSS SECTIONS: BEAMGUARD 745+00 - 760+00	SHEET 345	E

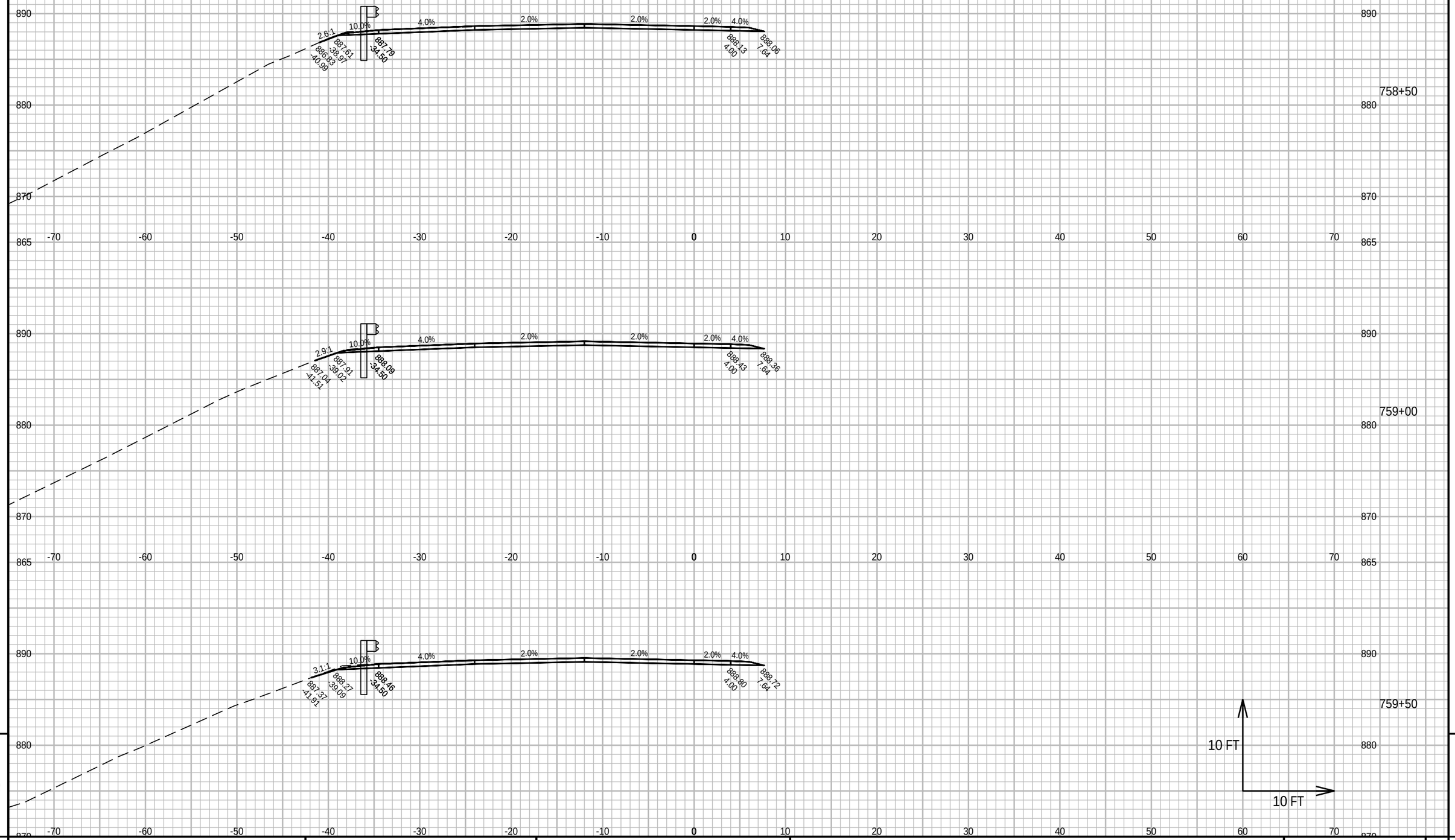
FILE NAME : G:\00\00093\00093777\CADD\SHEETSPLAN\090201-XS.DWG
LAYOUT NAME - 13

PLOT DATE : 6/27/2025 10:08 AM PLOT BY : SHAWN DOLENS PLOT NAME :

PLOT SCALE : 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49

RIGHT OF WAY (R/W) IS BEYOND EXTENTS OF THE CROSS SECTIONS. SEE PLANS FOR R/W LIMITS



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PROJECT NO: 1166-04-85	HWY: IH 39	COUNTY: MARQUETTE	CROSS SECTIONS: BEAMGUARD 745+00 - 760+00	SHEET 346	E

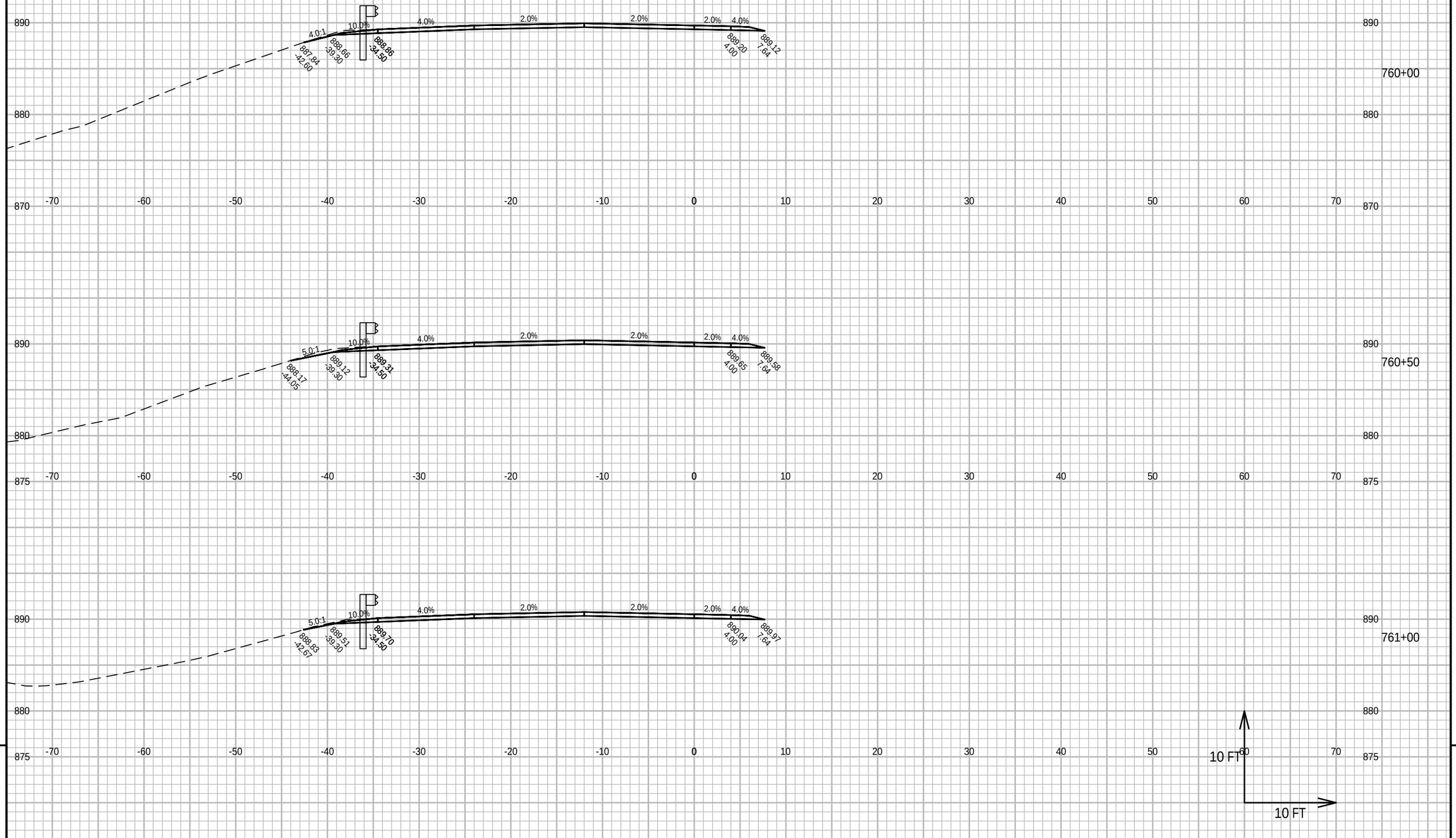
FILE NAME : G:\00\00093\00093777\CADD\SHEETSPLAN\090201-XS.DWG
LAYOUT NAME - 14

PLOT DATE : 6/27/2025 10:08 AM PLOT BY : SHAWN DOLENS PLOT NAME :

PLOT SCALE : 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49

RIGHT OF WAY (R/W) IS BEYOND EXTENTS OF THE CROSS SECTIONS. SEE PLANS FOR R/W LIMITS



PROJECT NO: 1166-04-85	HWY: IH 39	COUNTY: MARQUETTE	CROSS SECTIONS: BEAMGUARD 745+00 - 760+00	SHEET 347	E

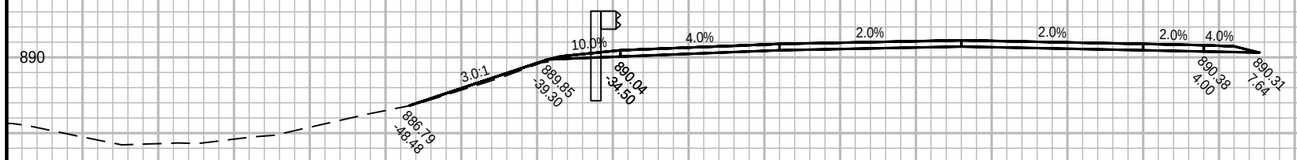
FILE NAME : G:\00\00093\00093777\CADD\SHEETSPLAN\090201-XS.DWG
LAYOUT NAME - 15

PLOT DATE : 6/27/2025 10:09 AM PLOT BY : SHAWN DOLENS PLOT NAME : PLOT SCALE : 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

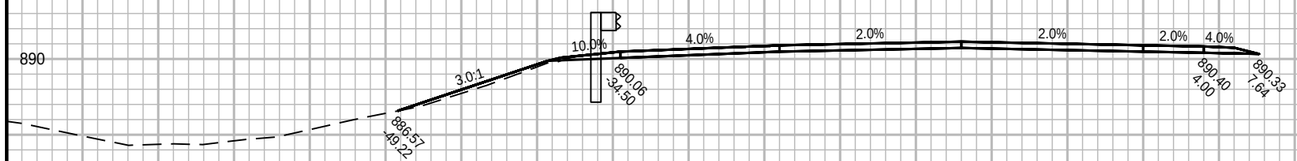
WISDOT/CADDS SHEET 49

RIGHT OF WAY (R/W) IS BEYOND EXTENTS OF THE CROSS SECTIONS. SEE PLANS FOR R/W LIMITS

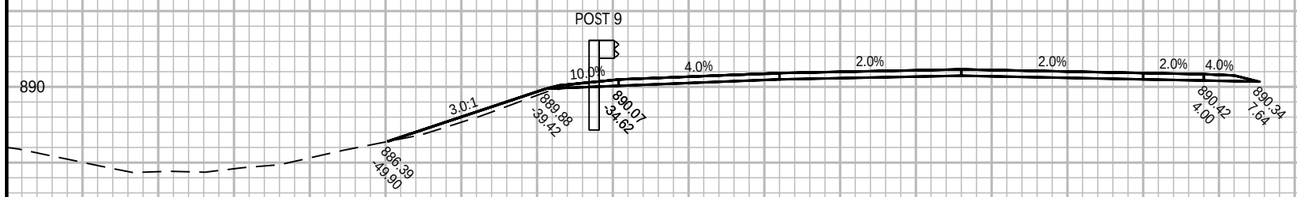
761+50

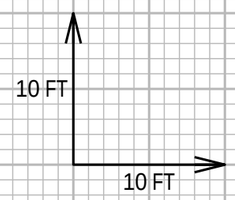


761+55.38



761+58.50





9

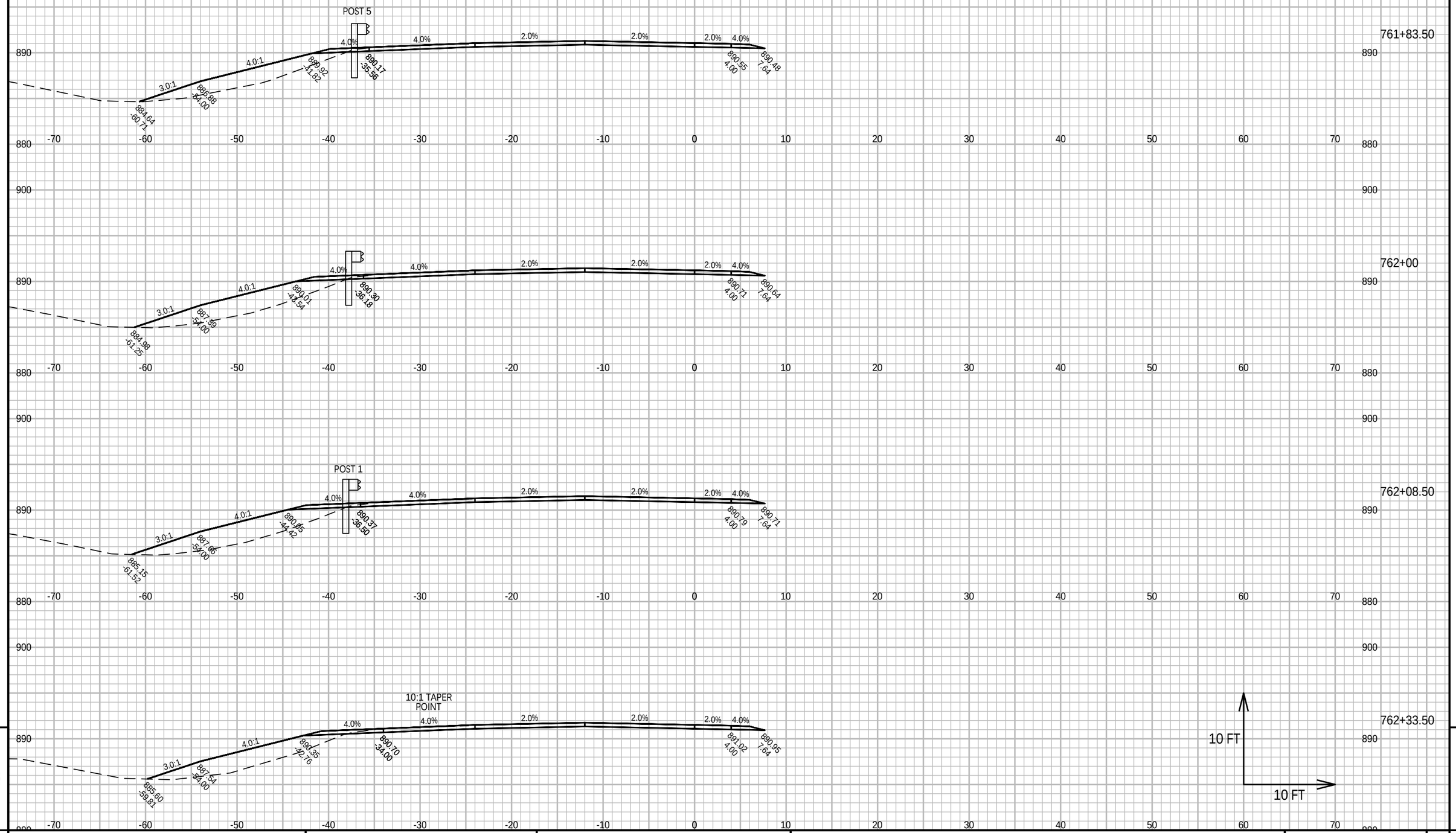
9

PROJECT NO: 1166-04-85	HWY: IH 39	COUNTY: MARQUETTE	CROSS SECTIONS: BEAMGUARD 745+00 - 760+00	SHEET 348	E

FILE NAME : G:\00\00093\00093777\CADD\SHEETSPLAN\090201-XS.DWG
LAYOUT NAME - 16

PLOT DATE : 6/27/2025 10:09 AM PLOT BY : SHAWN DOLENS PLOT NAME : PLOT SCALE : 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

RIGHT OF WAY (R/W) IS BEYOND EXTENTS OF THE CROSS SECTIONS. SEE PLANS FOR R/W LIMITS



PROJECT NO: 1166-04-85	HWY: IH 39	COUNTY: MARQUETTE	CROSS SECTIONS: BEAMGUARD 745+00 - 760+00	SHEET 349	E

FILE NAME : G:\00\00093\00093777\CADD\SHEETSPLAN\090201-XS.DWG
LAYOUT NAME - 17

PLOT DATE : 6/27/2025 10:09 AM

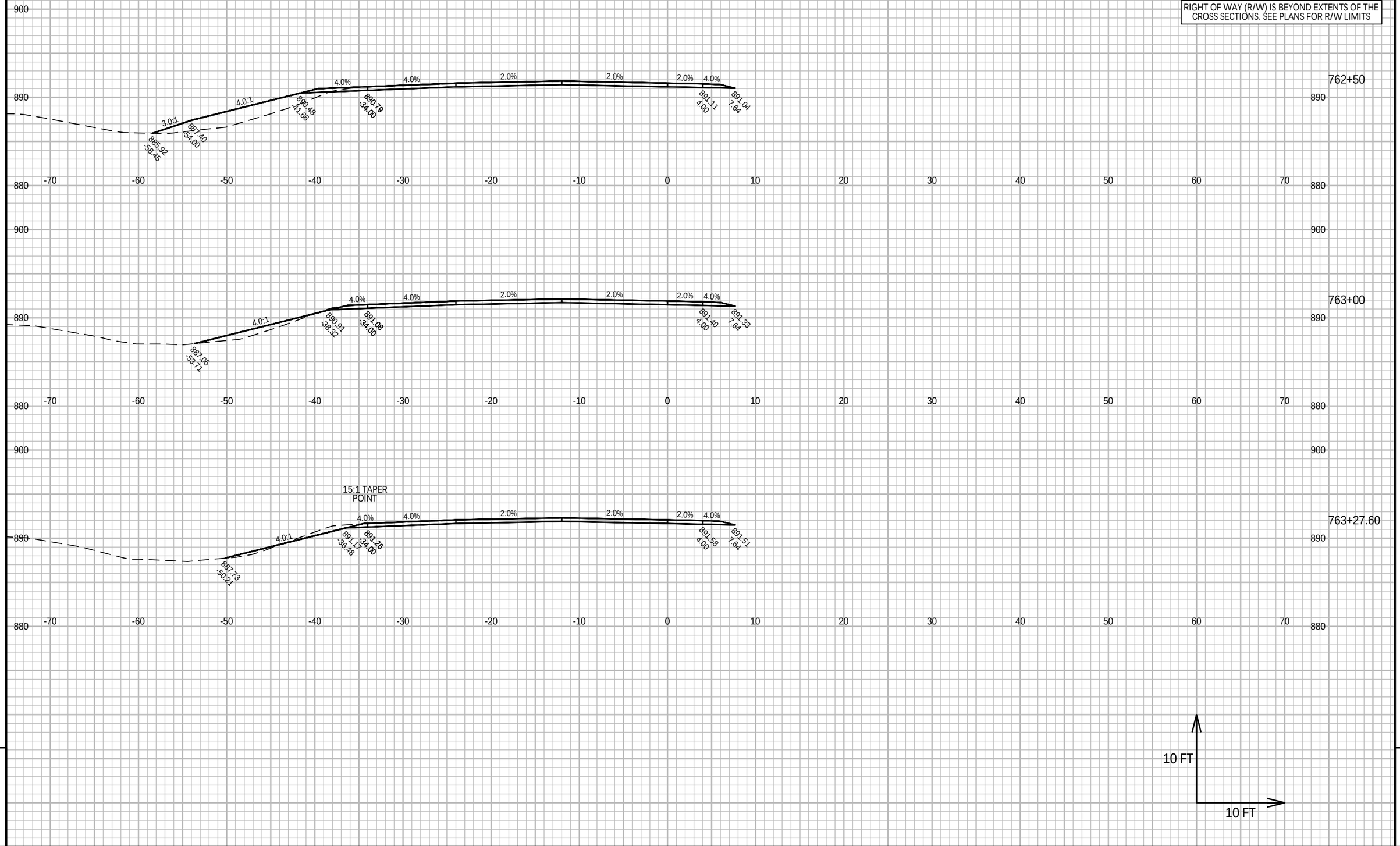
PLOT BY : SHAWN DOLENS

PLOT NAME :

PLOT SCALE : 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49

RIGHT OF WAY (R/W) IS BEYOND EXTENTS OF THE CROSS SECTIONS. SEE PLANS FOR R/W LIMITS



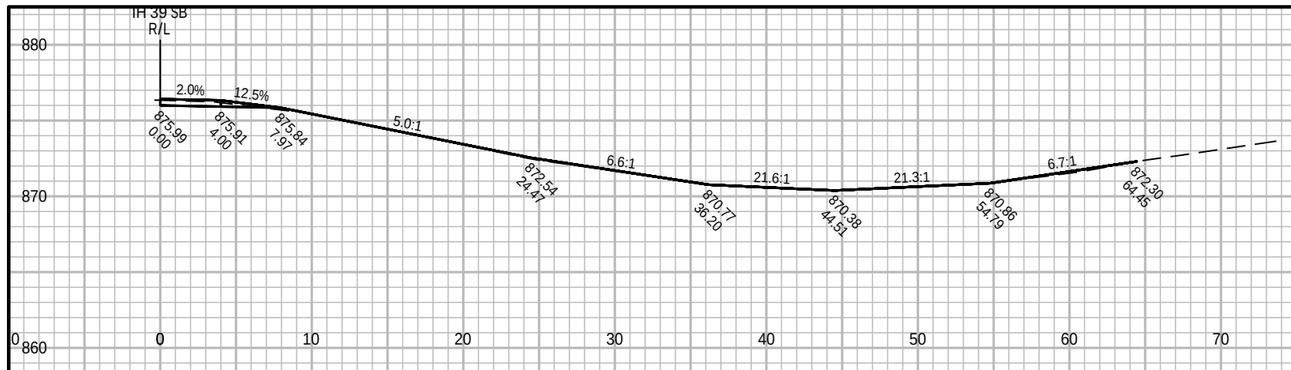
PROJECT NO: 1166-04-85	HWY: IH 39	COUNTY: MARQUETTE	CROSS SECTIONS: BEAMGUARD 745+00 - 760+00	SHEET 350	E

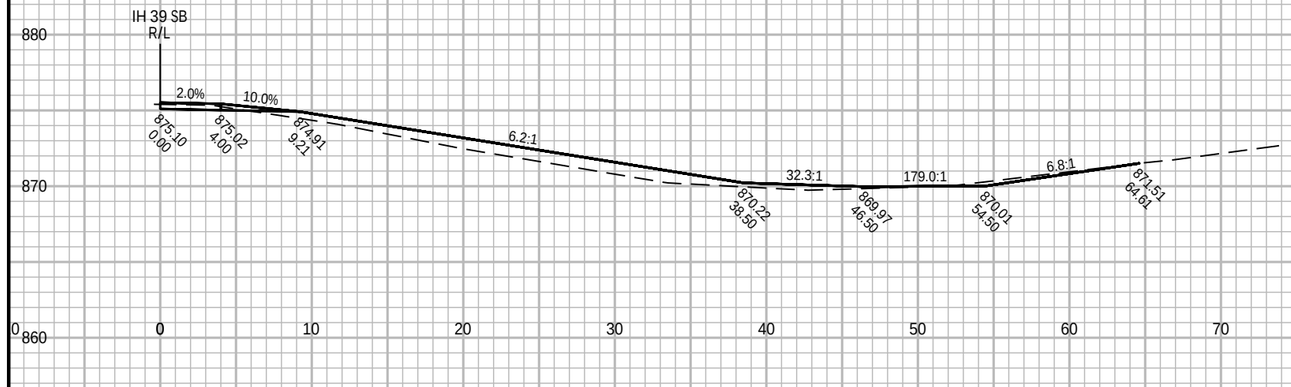
FILE NAME : G:\00\00093\00093777\CADD\SHEETSPLAN\090201-XS.DWG
LAYOUT NAME - 18

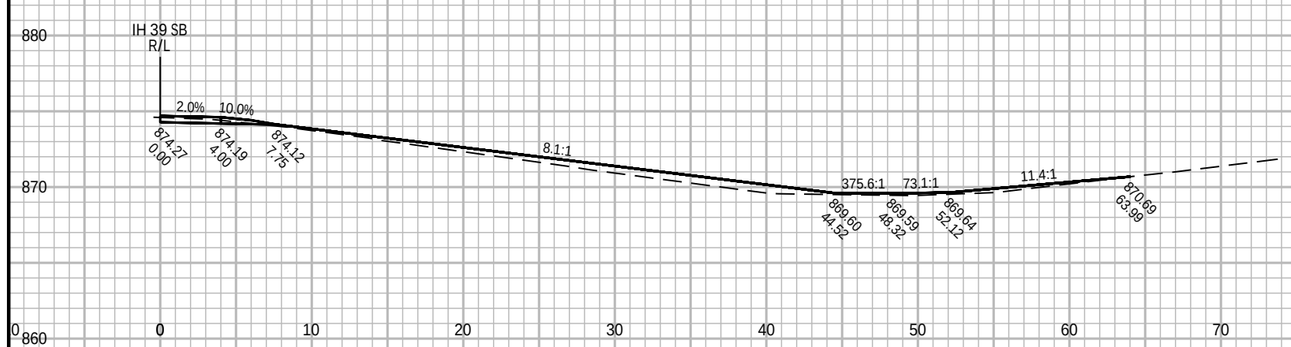
PLOT DATE : 6/27/2025 10:09 AM PLOT BY : SHAWN DOLENS PLOT NAME : PLOT SCALE : 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

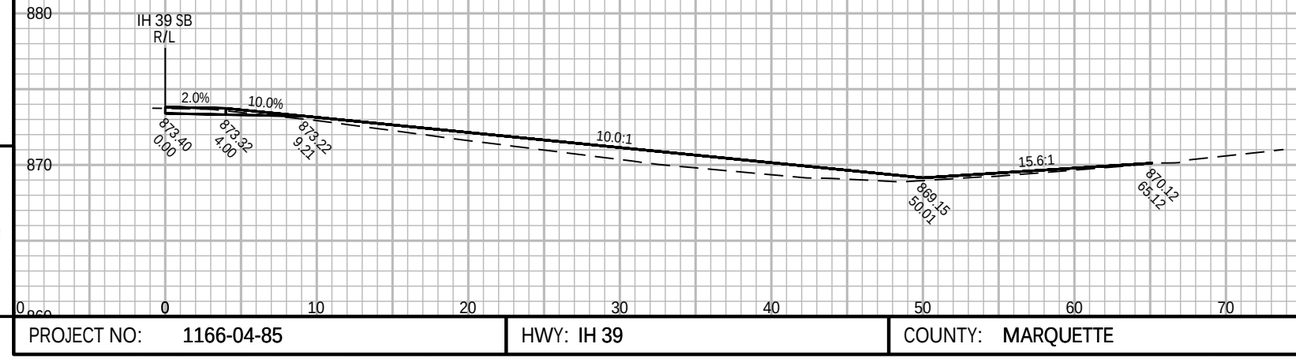
WISDOT/CADDS SHEET 49

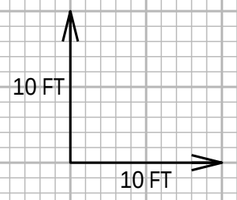
RIGHT OF WAY (R/W) IS BEYOND EXTENTS OF THE CROSS SECTIONS. SEE PLANS FOR R/W LIMITS











PROJECT NO: 1166-04-85	HWY: IH 39	COUNTY: MARQUETTE	CROSS SECTIONS: BEAMGUARD 865+00 - 873+00	SHEET 351	E

FILE NAME : G:\00\00093\00093777\CADD\SHEETSPLAN\090201-XS.DWG
LAYOUT NAME - 19

PLOT DATE : 6/27/2025 10:10 AM

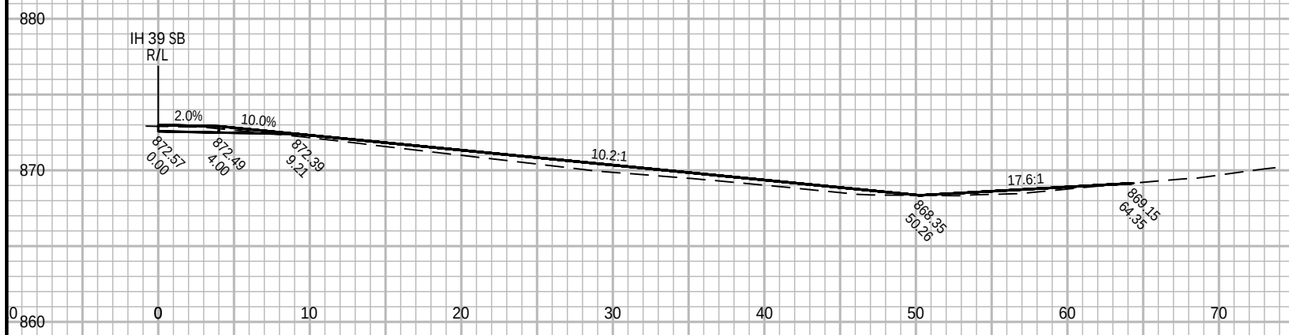
PLOT BY : SHAWN DOLENS

PLOT NAME :

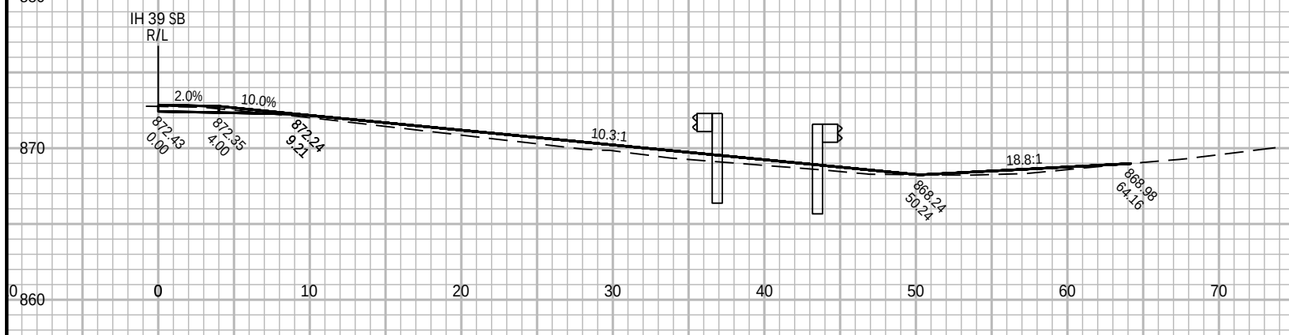
PLOT SCALE : 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49

RIGHT OF WAY (R/W) IS BEYOND EXTENTS OF THE CROSS SECTIONS. SEE PLANS FOR R/W LIMITS

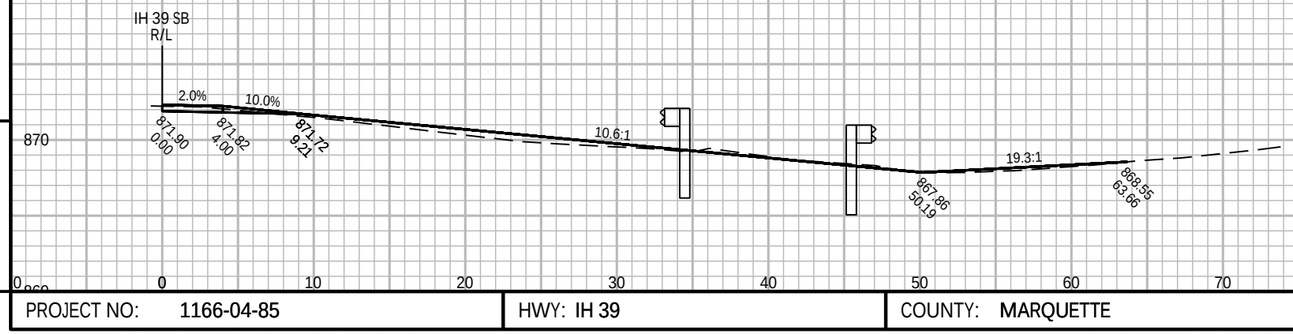


868+00

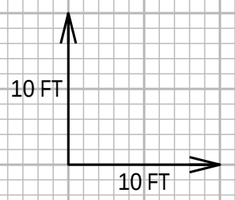


868+08.67

868+21.12



868+39.87



PROJECT NO: 1166-04-85	HWY: IH 39	COUNTY: MARQUETTE	CROSS SECTIONS: BEAMGUARD 865+00 - 873+00	SHEET 352	E

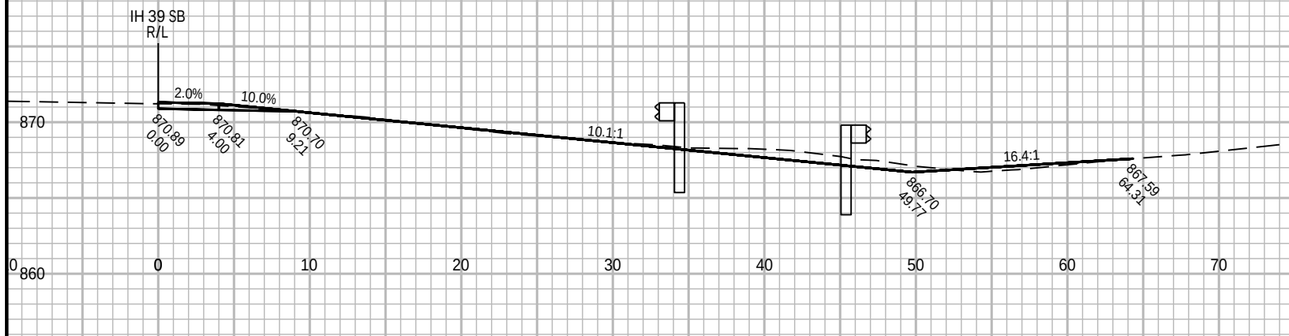
FILE NAME : G:\00\00093\00093777\CADD\SHEETSPLAN\090201-XS.DWG
LAYOUT NAME - 20

PLOT DATE : 6/27/2025 10:10 AM PLOT BY : SHAWN DOLENS PLOT NAME : PLOT SCALE : 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

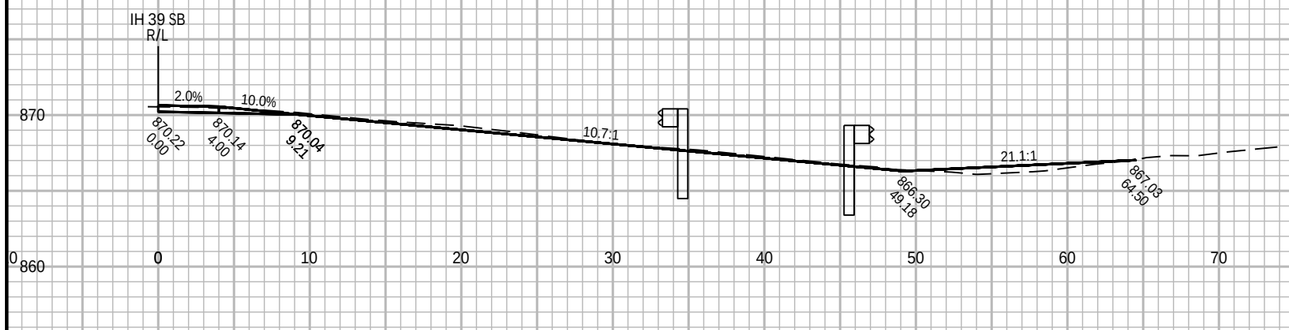
WISDOT/CADDS SHEET 49

RIGHT OF WAY (R/W) IS BEYOND EXTENTS OF THE CROSS SECTIONS. SEE PLANS FOR R/W LIMITS

868+50

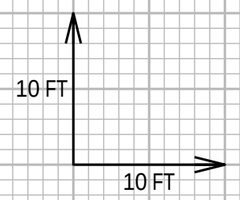


869+00



869+39.89

869+50



PROJECT NO: 1166-04-85	HWY: IH 39	COUNTY: MARQUETTE	CROSS SECTIONS: BEAMGUARD 865+00 - 873+00	SHEET 353	E

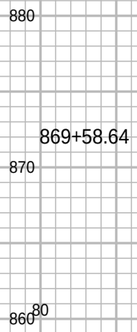
FILE NAME : G:\00\00093\00093777\CADD\SHEETSPLAN\090201-XS.DWG
LAYOUT NAME - 21

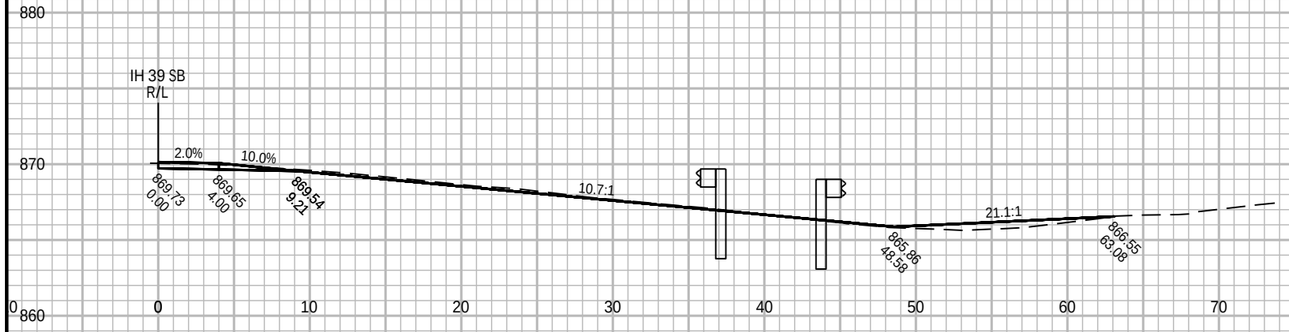
PLOT DATE : 6/27/2025 10:10 AM PLOT BY : SHAWN DOLENS PLOT NAME : PLOT SCALE : 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49

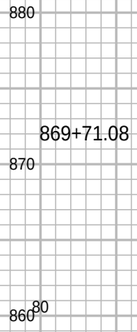
RIGHT OF WAY (R/W) IS BEYOND EXTENTS OF THE CROSS SECTIONS. SEE PLANS FOR R/W LIMITS

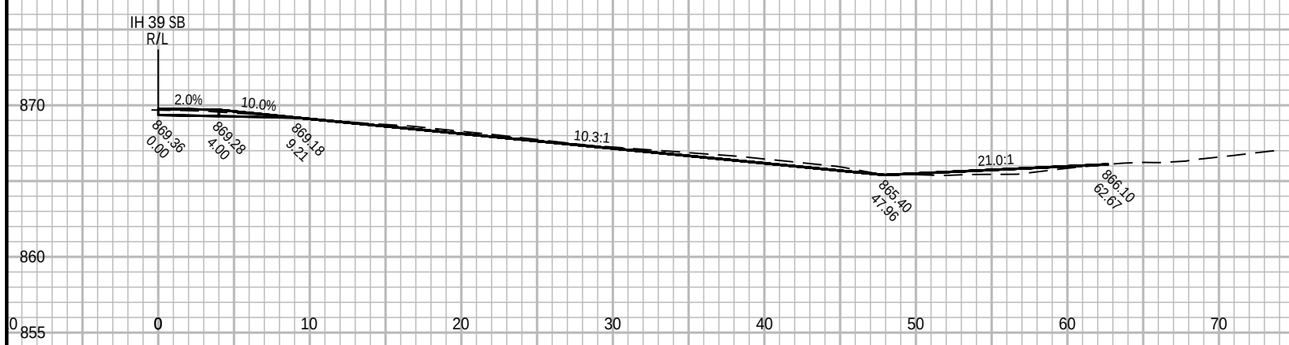
869+58.64



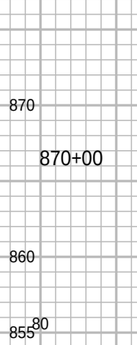


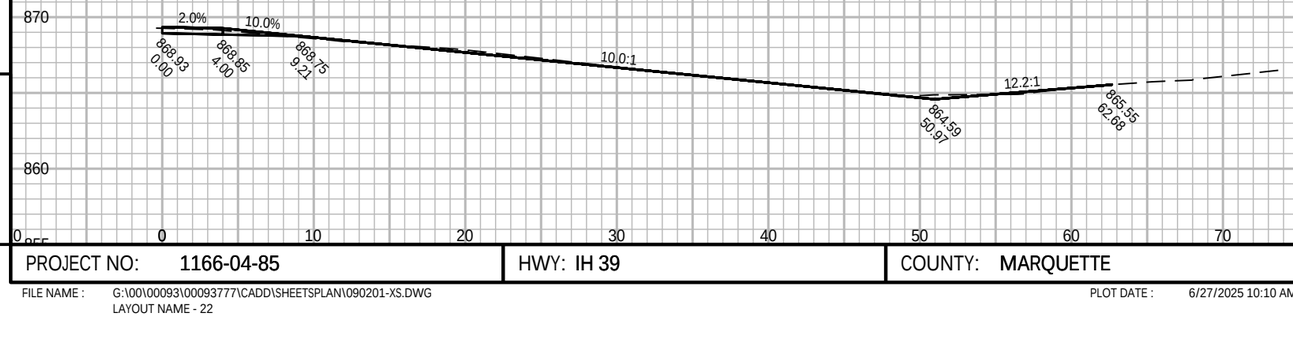
869+71.08



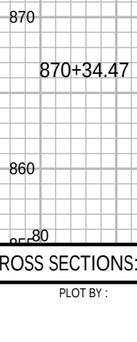


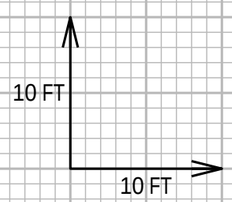
870+00





870+34.47





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PROJECT NO: 1166-04-85	HWY: IH 39	COUNTY: MARQUETTE	CROSS SECTIONS: BEAMGUARD 865+00 - 873+00	SHEET 354	E

FILE NAME : G:\00\00093\00093777\CADD\SHEETSPLAN\090201-XS.DWG
LAYOUT NAME - 22

PLOT DATE : 6/27/2025 10:10 AM

PLOT BY : SHAWN DOLENS

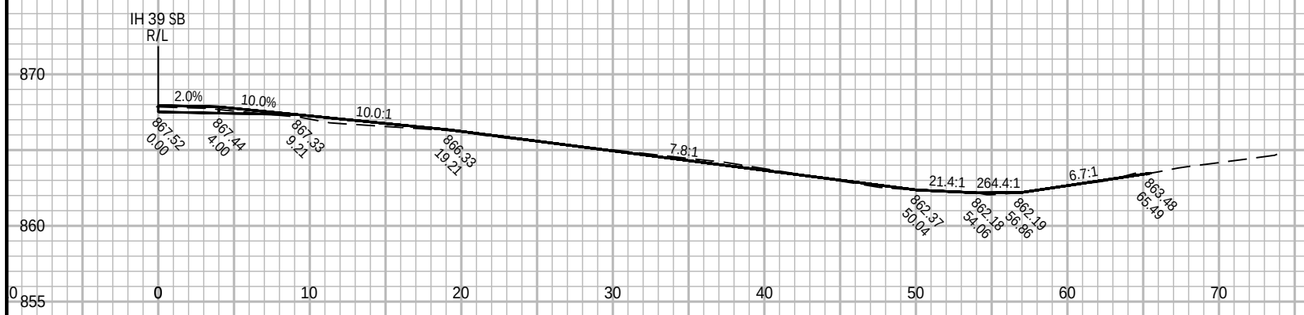
PLOT NAME :

PLOT SCALE : 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

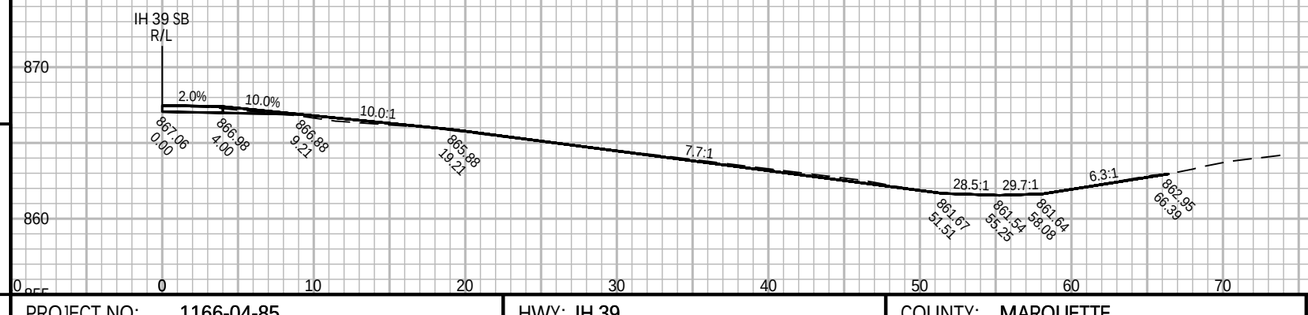
RIGHT OF WAY (R/W) IS BEYOND EXTENTS OF THE CROSS SECTIONS. SEE PLANS FOR R/W LIMITS

870+50

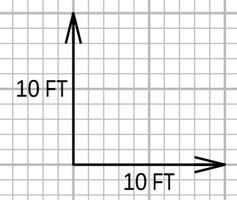
870+73.70



871+50



871+84.47



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PROJECT NO: 1166-04-85	HWY: IH 39	COUNTY: MARQUETTE	CROSS SECTIONS: BEAMGUARD 865+00 - 873+00	SHEET 355	E

FILE NAME : G:\00\00093\00093777\CADD\SHEETSPLAN\090201-XS.DWG
LAYOUT NAME - 23

PLOT DATE : 6/27/2025 10:11 AM

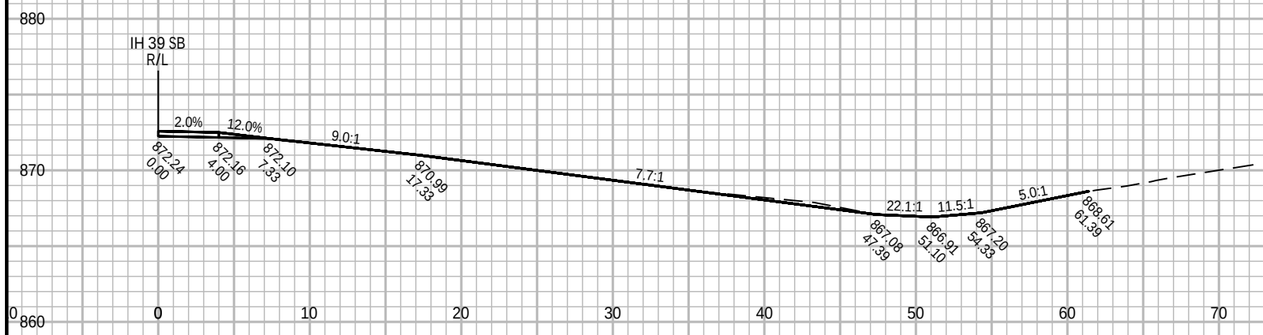
PLOT BY : SHAWN DOLENS

PLOT NAME :

PLOT SCALE : 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

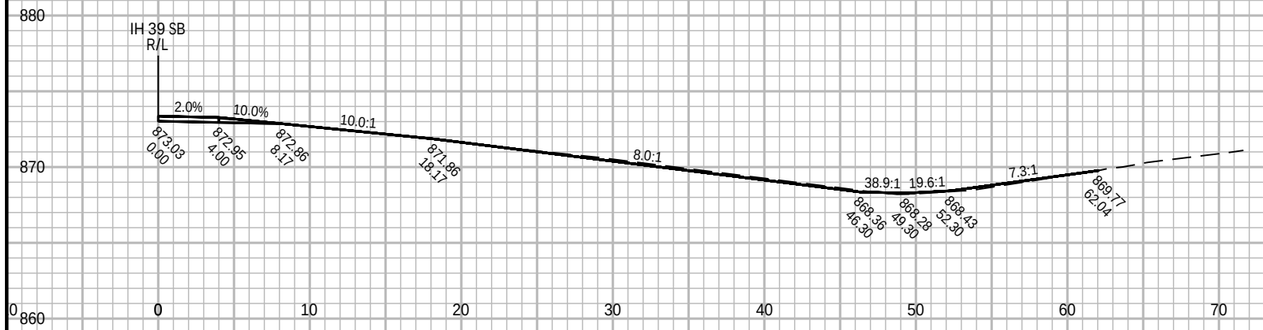
WISDOT/CADDS SHEET 49

RIGHT OF WAY (R/W) IS BEYOND EXTENTS OF THE CROSS SECTIONS. SEE PLANS FOR R/W LIMITS

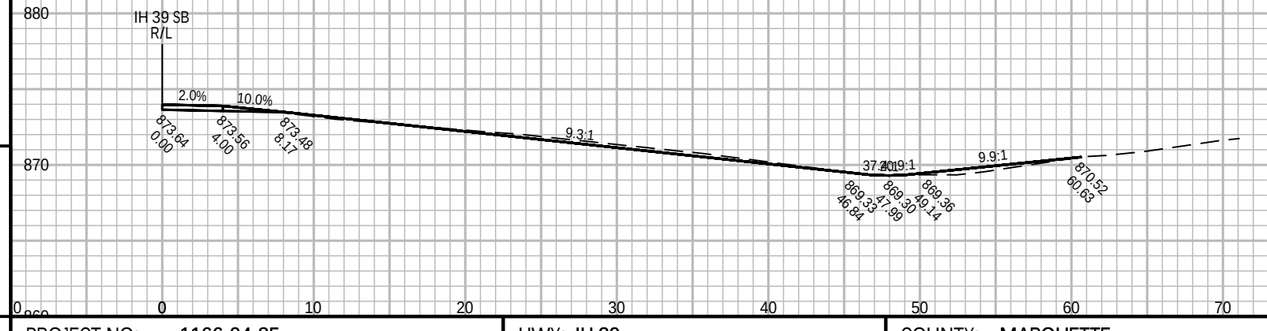


945+31.15

945+50



946+00



946+50

10 FT
10 FT

PROJECT NO: 1166-04-85	HWY: IH 39	COUNTY: MARQUETTE	CROSS SECTIONS: BEAMGUARD 945+00 - 952+00	SHEET 356	E

FILE NAME : G:\00\00093\00093777\CADD\SHEETSPLAN\090201-XS.DWG
LAYOUT NAME - 24

PLOT DATE : 6/27/2025 10:11 AM

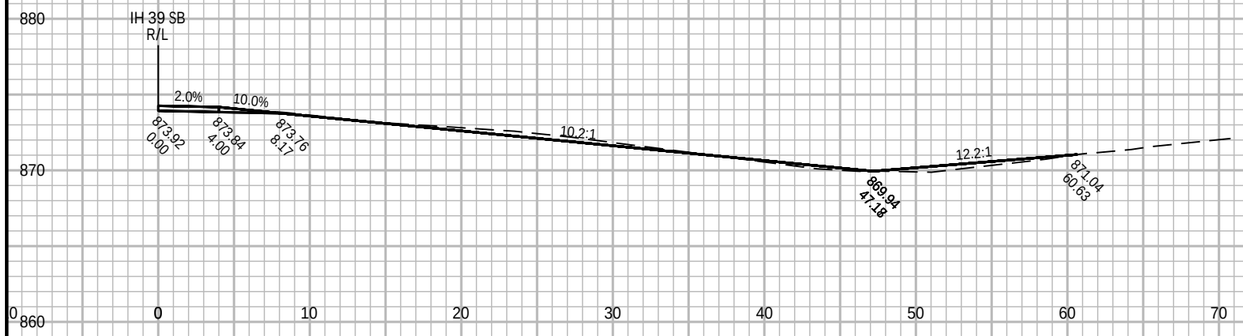
PLOT BY : SHAWN DOLENS

PLOT NAME :

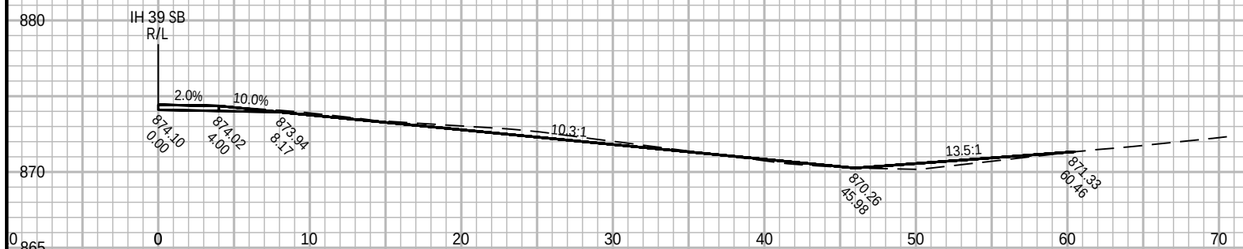
PLOT SCALE : 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49

RIGHT OF WAY (R/W) IS BEYOND EXTENTS OF THE CROSS SECTIONS. SEE PLANS FOR R/W LIMITS

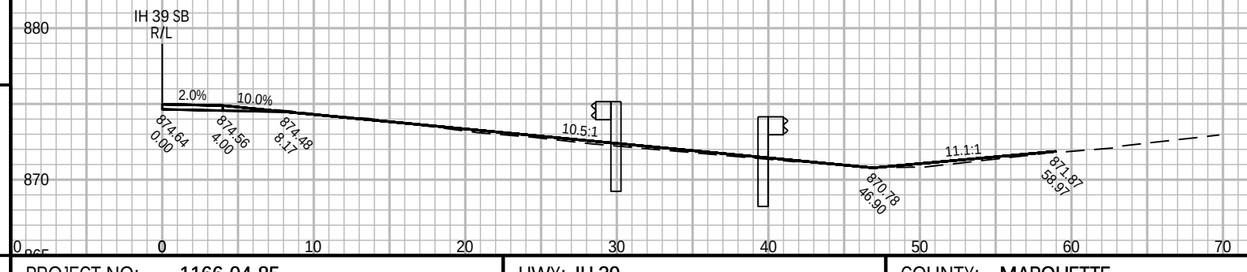


946+81.13

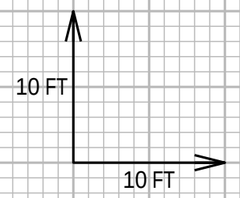


947+00

947+44.51



947+50



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PROJECT NO: 1166-04-85	HWY: IH 39	COUNTY: MARQUETTE	CROSS SECTIONS: BEAMGUARD 945+00 - 952+00	SHEET 357	E

FILE NAME : G:\00\00093\00093777\CADD\SHEETSPLAN\090201-XS.DWG
LAYOUT NAME - 25

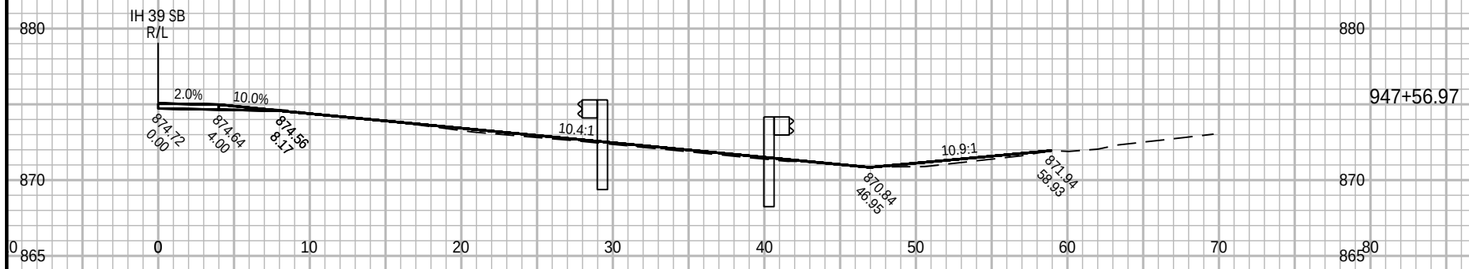
PLOT DATE : 6/27/2025 10:11 AM

PLOT BY : SHAWN DOLENS

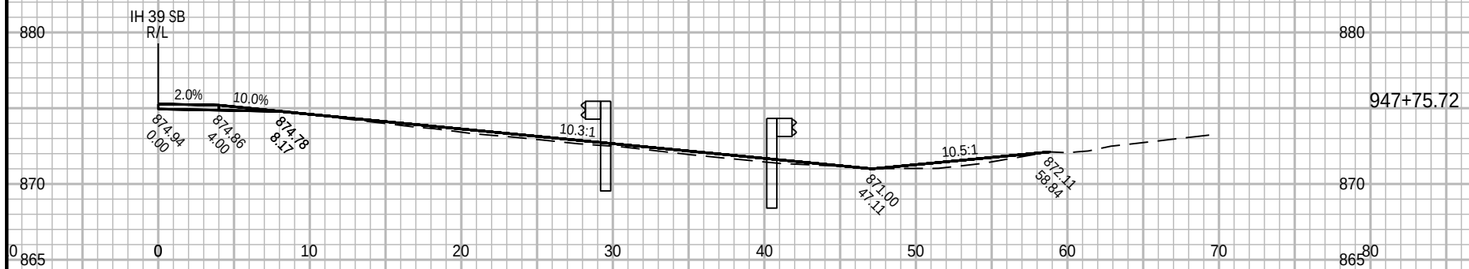
PLOT NAME :

PLOT SCALE : 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

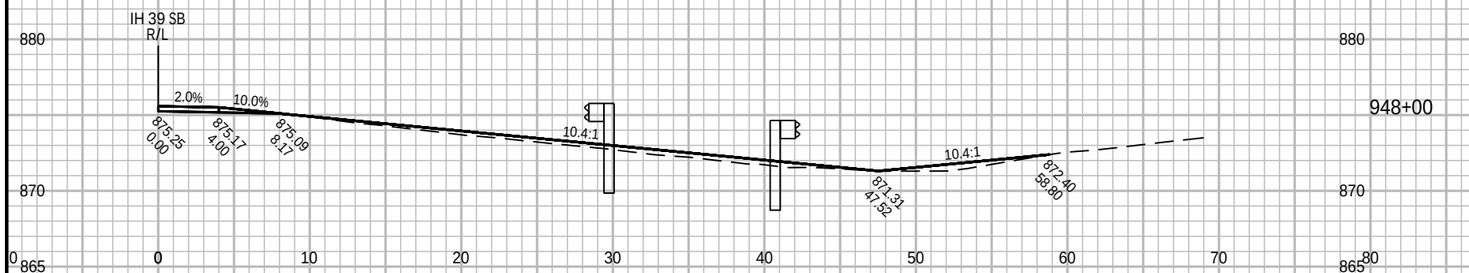
RIGHT OF WAY (R/W) IS BEYOND EXTENTS OF THE CROSS SECTIONS. SEE PLANS FOR R/W LIMITS



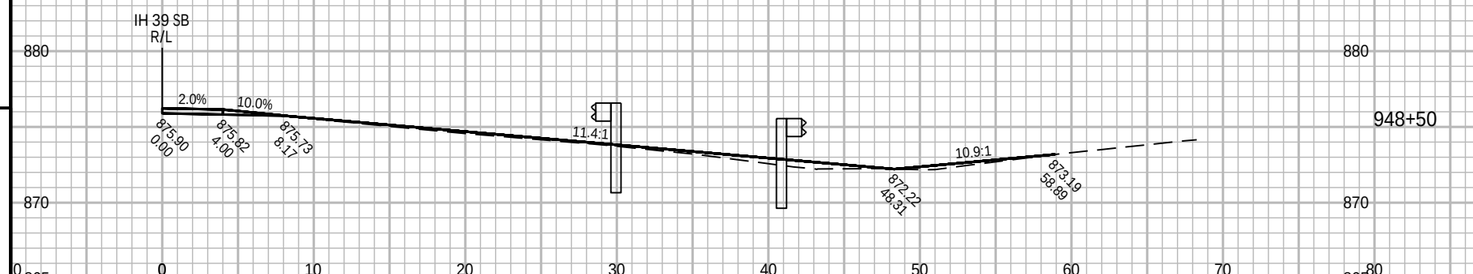
947+56.97



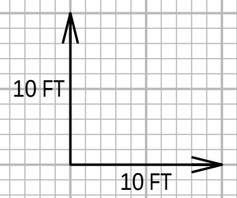
947+75.72



948+00



948+50



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PROJECT NO: 1166-04-85	HWY: IH 39	COUNTY: MARQUETTE	CROSS SECTIONS: BEAMGUARD 945+00 - 952+00	SHEET 358	E

FILE NAME : G:\00\00093\00093777\CADD\SHEETSPLAN\090201-XS.DWG
LAYOUT NAME - 26

PLOT DATE : 6/27/2025 10:12 AM

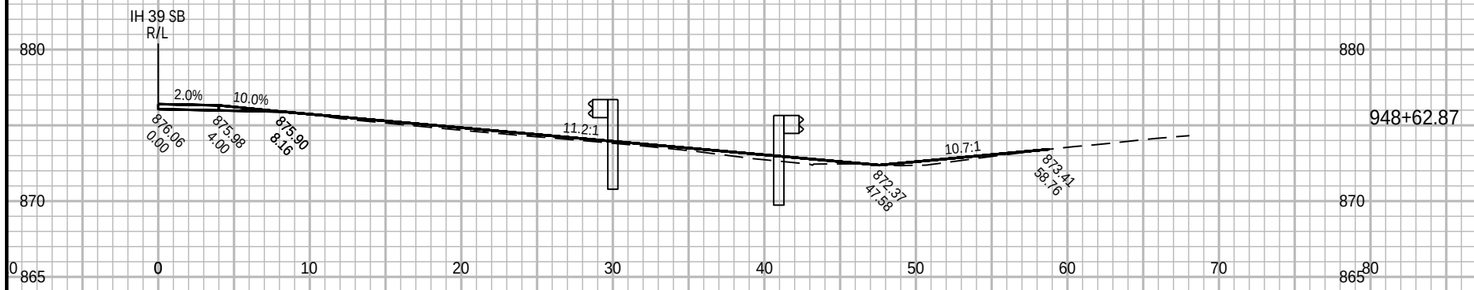
PLOT BY : SHAWN DOLENS

PLOT NAME :

PLOT SCALE : 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49

RIGHT OF WAY (R/W) IS BEYOND EXTENTS OF THE CROSS SECTIONS. SEE PLANS FOR R/W LIMITS

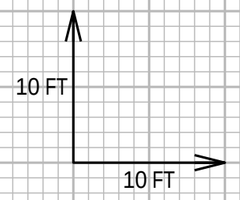


948+62.87

948+81.62

948+94.08

949+00



9 9

PROJECT NO: 1166-04-85	HWY: IH 39	COUNTY: MARQUETTE	CROSS SECTIONS: BEAMGUARD 945+00 - 952+00	SHEET 359	E

FILE NAME : G:\00\00093\00093777\CADD\SHEETSPLAN\090201-XS.DWG
LAYOUT NAME - 27

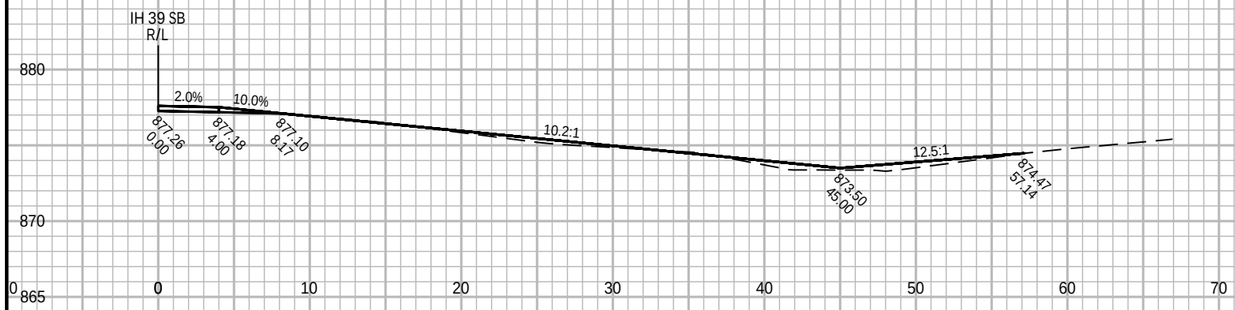
PLOT DATE : 6/27/2025 10:12 AM

PLOT BY : SHAWN DOLENS

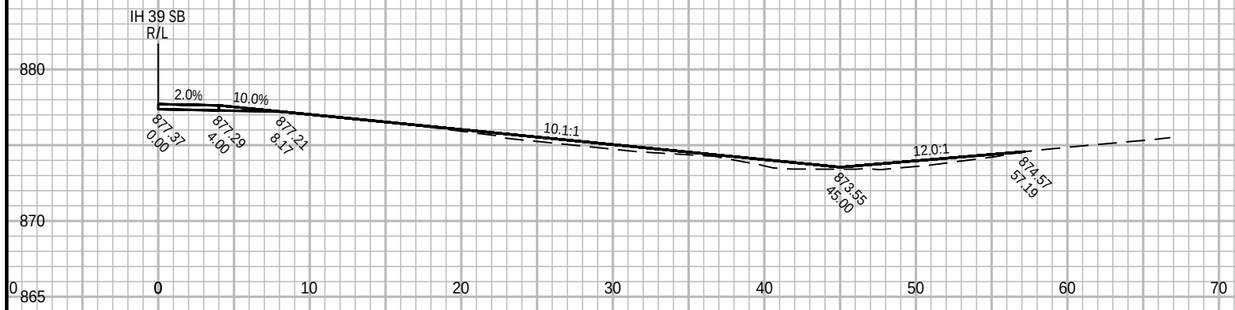
PLOT NAME :

PLOT SCALE : 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

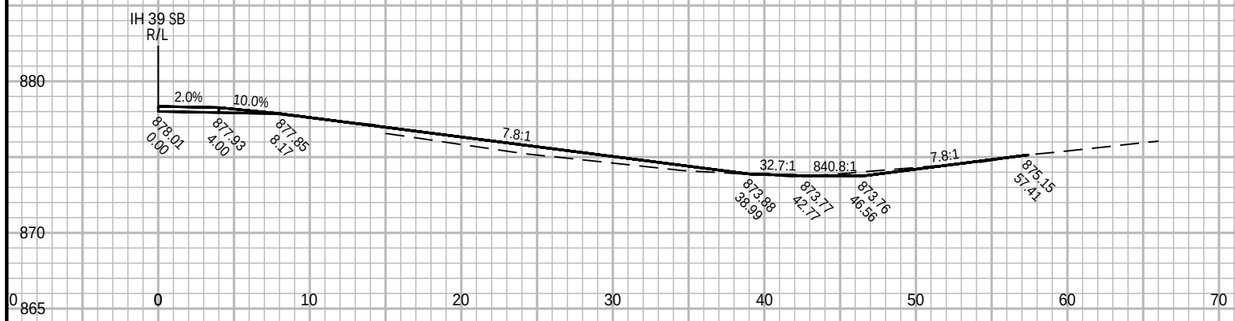
RIGHT OF WAY (R/W) IS BEYOND EXTENTS OF THE CROSS SECTIONS. SEE PLANS FOR R/W LIMITS



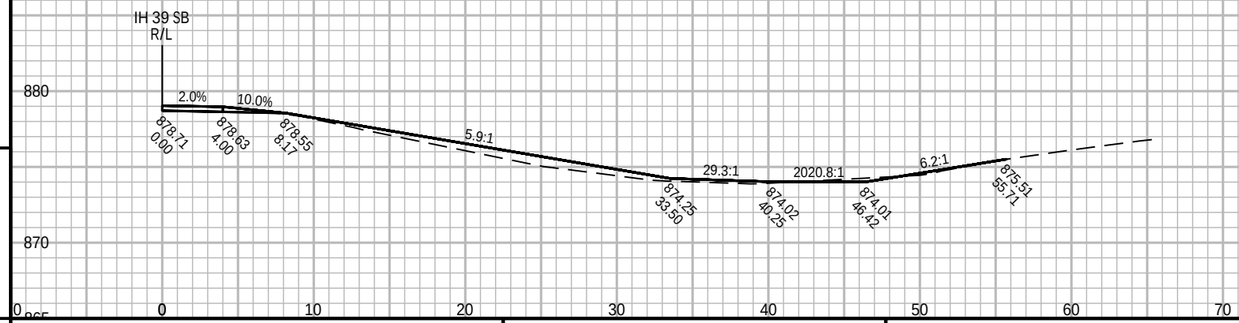
949+50



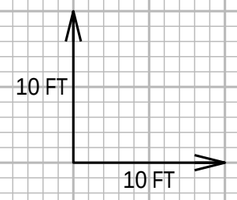
949+57.34



950+00



950+50



9

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PROJECT NO: 1166-04-85	HWY: IH 39	COUNTY: MARQUETTE	CROSS SECTIONS: BEAMGUARD 945+00 - 952+00	SHEET 360	E

FILE NAME : G:\00\00093\00093777\CADD\SHEETSPLAN\090201-XS.DWG
LAYOUT NAME - 28

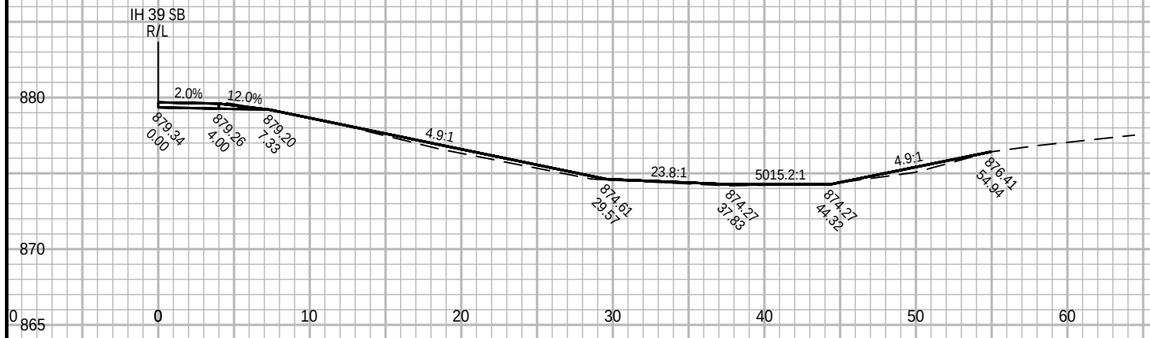
PLOT DATE : 6/27/2025 10:12 AM

PLOT BY : SHAWN DOLENS

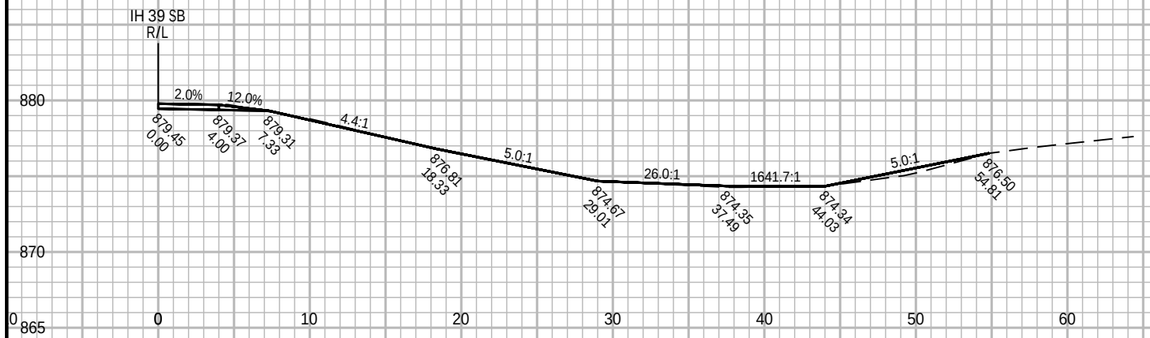
PLOT NAME :

PLOT SCALE : 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

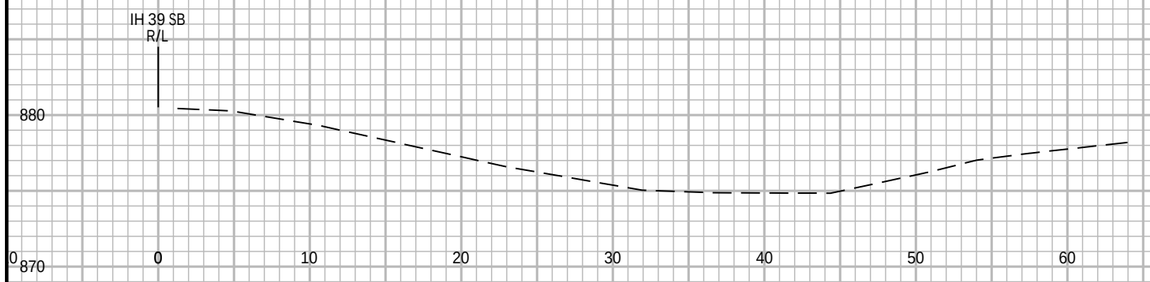
RIGHT OF WAY (R/W) IS BEYOND EXTENTS OF THE CROSS SECTIONS. SEE PLANS FOR R/W LIMITS



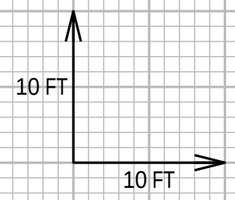
951+00



951+07.21



951+50



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PROJECT NO: 1166-04-85	HWY: IH 39	COUNTY: MARQUETTE	CROSS SECTIONS: BEAMGUARD 945+00 - 952+00	SHEET 361	E

FILE NAME : G:\00\00093\00093777\CADD\SHEETSPLAN\090201-XS.DWG
LAYOUT NAME - 29

PLOT DATE : 6/27/2025 10:12 AM

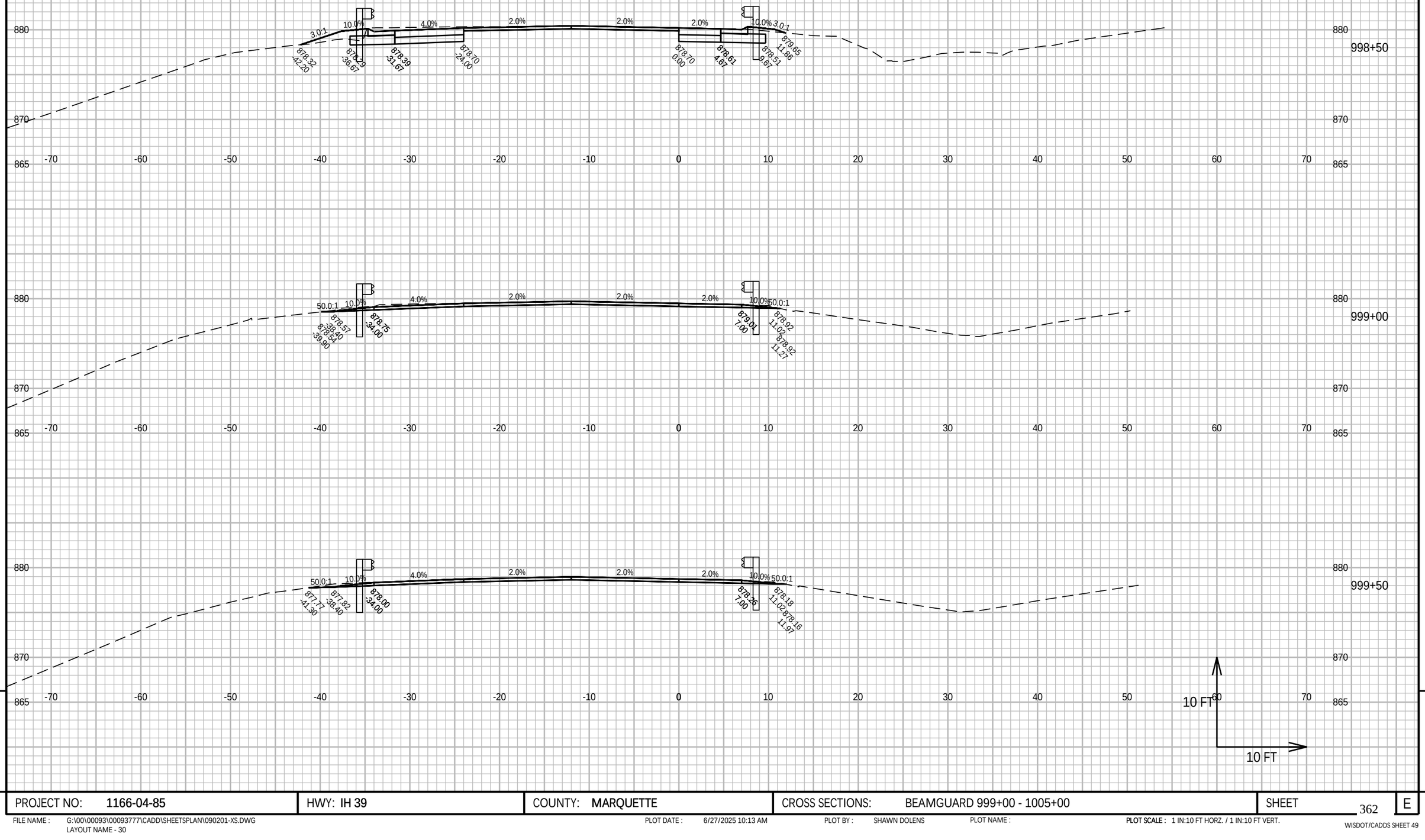
PLOT BY : SHAWN DOLENS

PLOT NAME :

PLOT SCALE : 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49

RIGHT OF WAY (R/W) IS BEYOND EXTENTS OF THE CROSS SECTIONS. SEE PLANS FOR R/W LIMITS



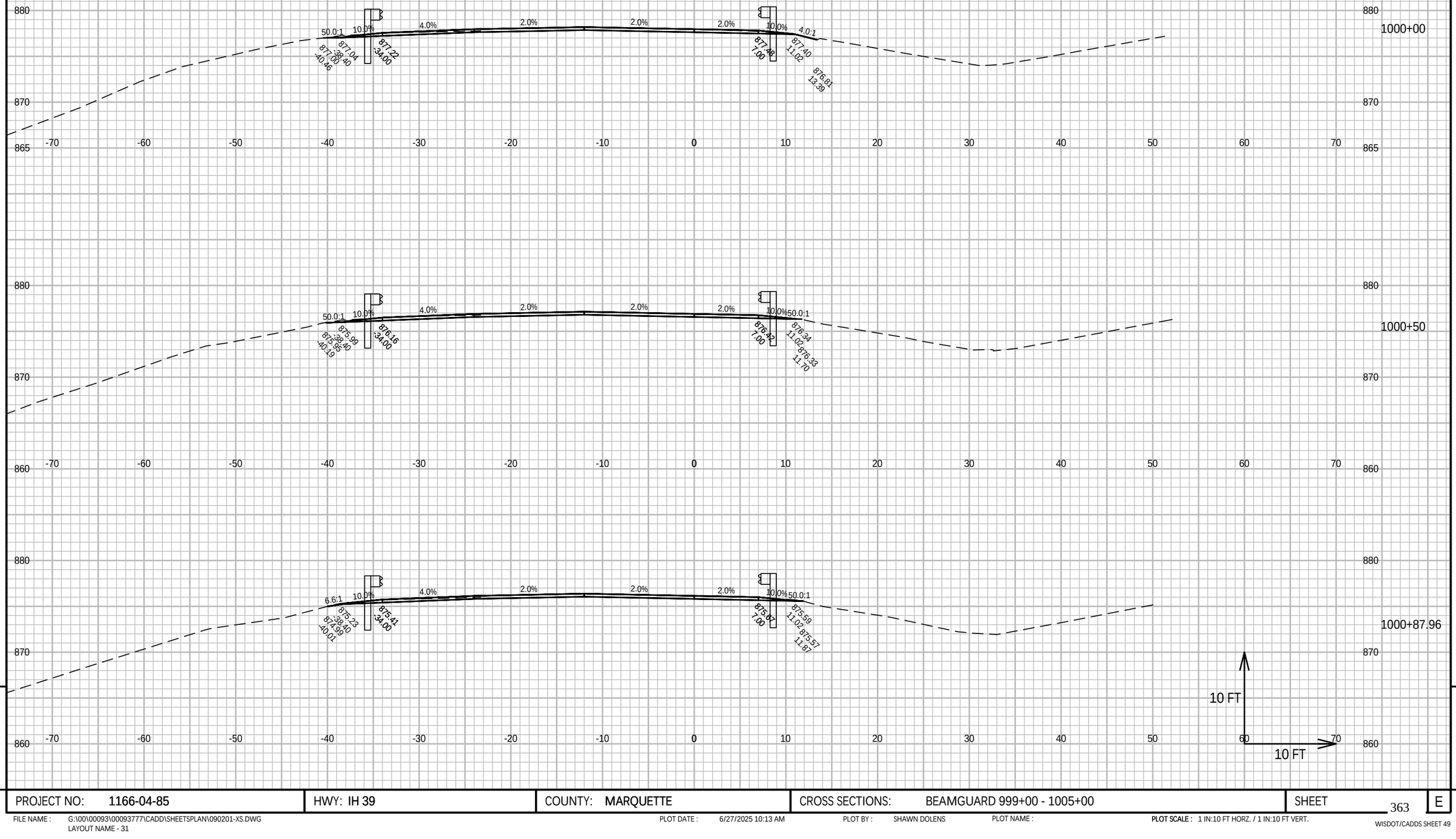
PROJECT NO: 1166-04-85	HWY: IH 39	COUNTY: MARQUETTE	CROSS SECTIONS: BEAMGUARD 999+00 - 1005+00	SHEET 362	E

FILE NAME : G:\00\00093\00093777\CADD\SHEETSPLAN\090201-XS.DWG
LAYOUT NAME - 30

PLOT DATE : 6/27/2025 10:13 AM PLOT BY : SHAWN DOLENS PLOT NAME : PLOT SCALE : 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49

RIGHT OF WAY (R/W) IS BEYOND EXTENTS OF THE CROSS SECTIONS. SEE PLANS FOR R/W LIMITS



9

9

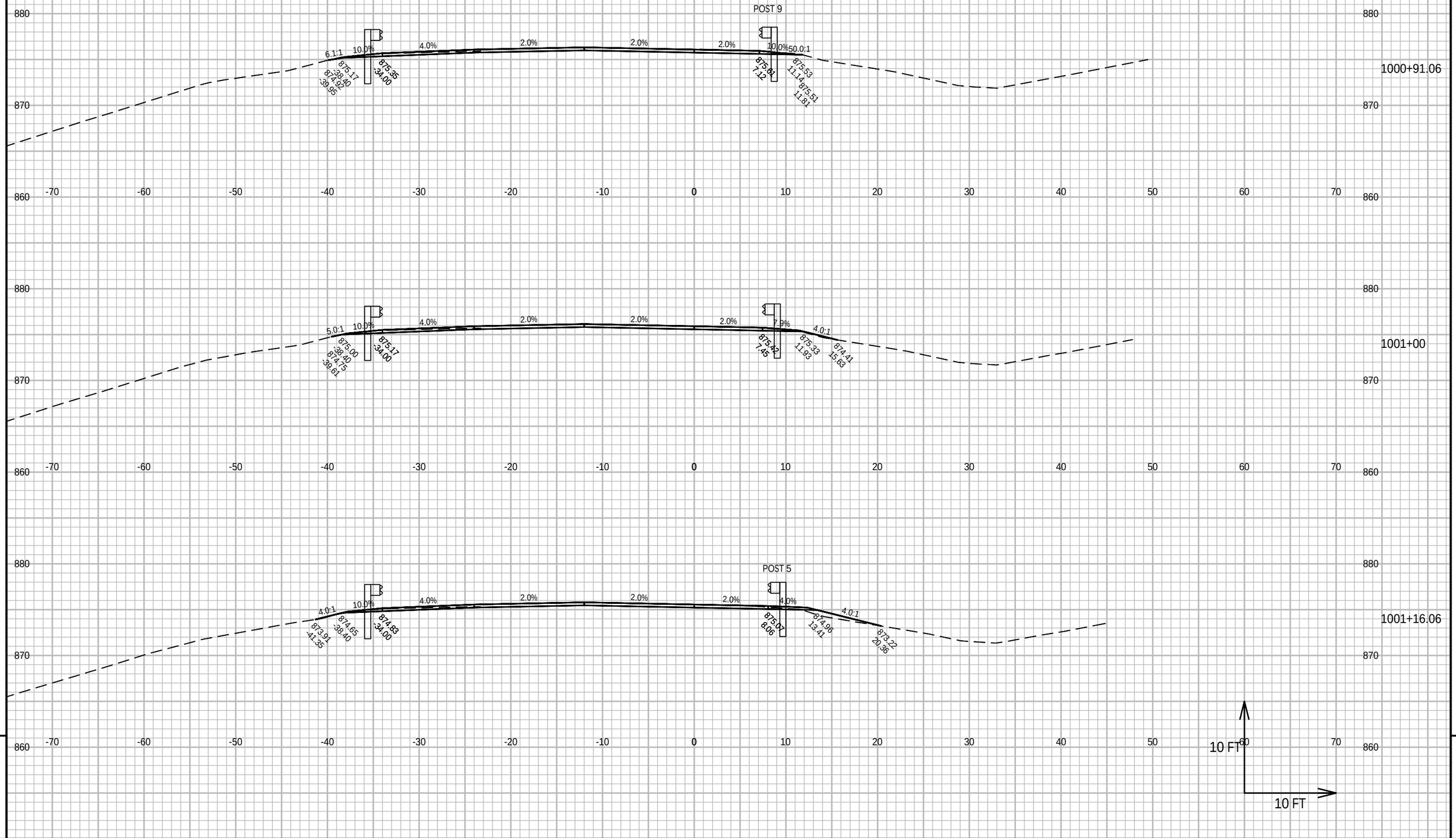
PROJECT NO: 1166-04-85	HWY: IH 39	COUNTY: MARQUETTE	CROSS SECTIONS: BEAMGUARD 999+00 - 1005+00	SHEET 363	E

FILE NAME : G:\00\00093\00093777\CADD\SHEETSPLAN\090201-XS.DWG
LAYOUT NAME - 31

PLOT DATE : 6/27/2025 10:13 AM PLOT BY : SHAWN DOLENS PLOT NAME : **PLOT SCALE :** 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49

RIGHT OF WAY (R/W) IS BEYOND EXTENTS OF THE CROSS SECTIONS. SEE PLANS FOR R/W LIMITS



9

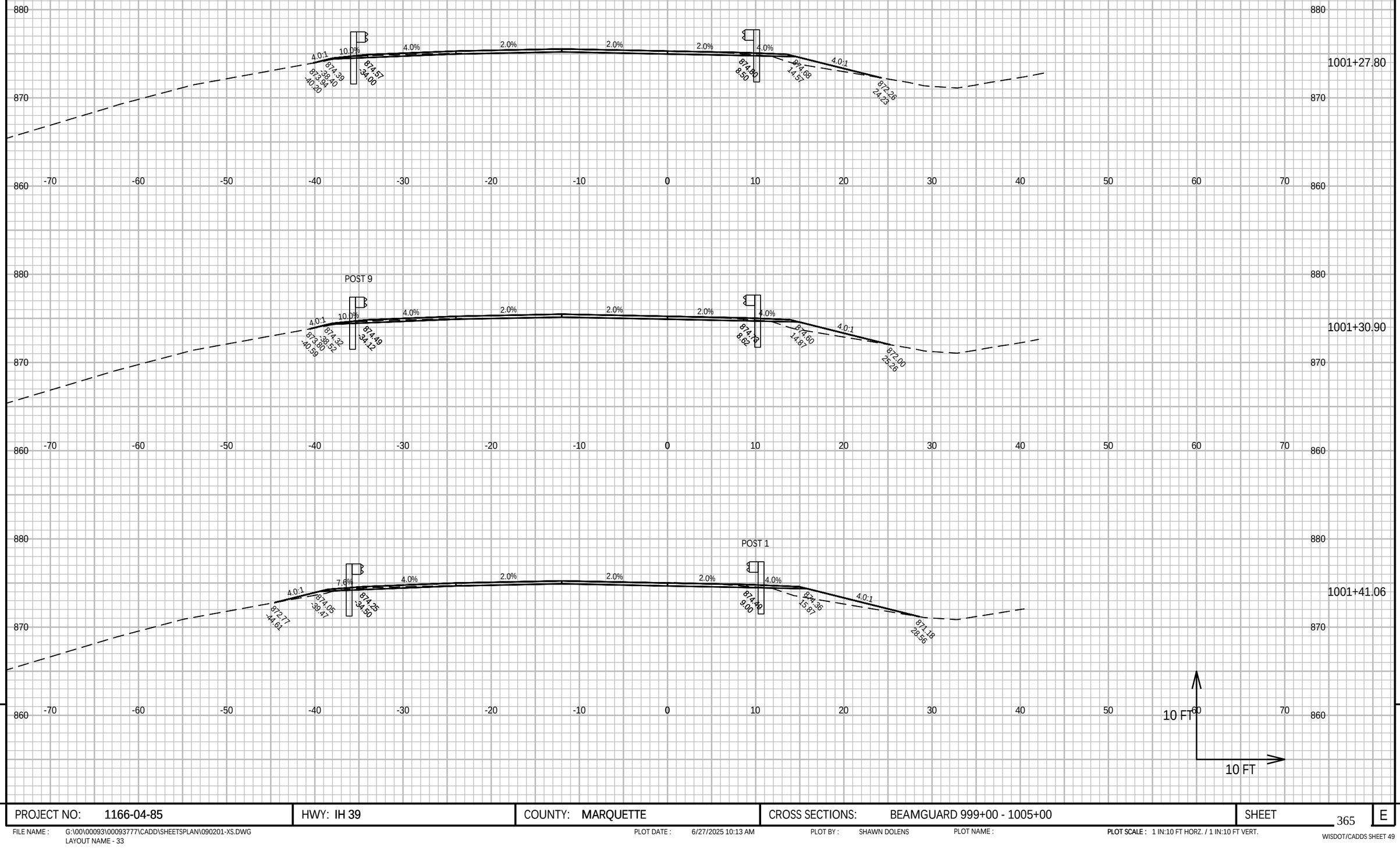
9

PROJECT NO: 1166-04-85	HWY: IH 39	COUNTY: MARQUETTE	CROSS SECTIONS: BEAMGUARD 999+00 - 1005+00	SHEET 364	E

FILE NAME : G:\00\00093\00093777\CADD\SHEETSPLAN\090201-XS.DWG
LAYOUT NAME - 32

PLOT DATE : 6/27/2025 10:13 AM PLOT BY : SHAWN DOLENS PLOT NAME : PLOT SCALE : 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

RIGHT OF WAY (R/W) IS BEYOND EXTENTS OF THE CROSS SECTIONS. SEE PLANS FOR R/W LIMITS



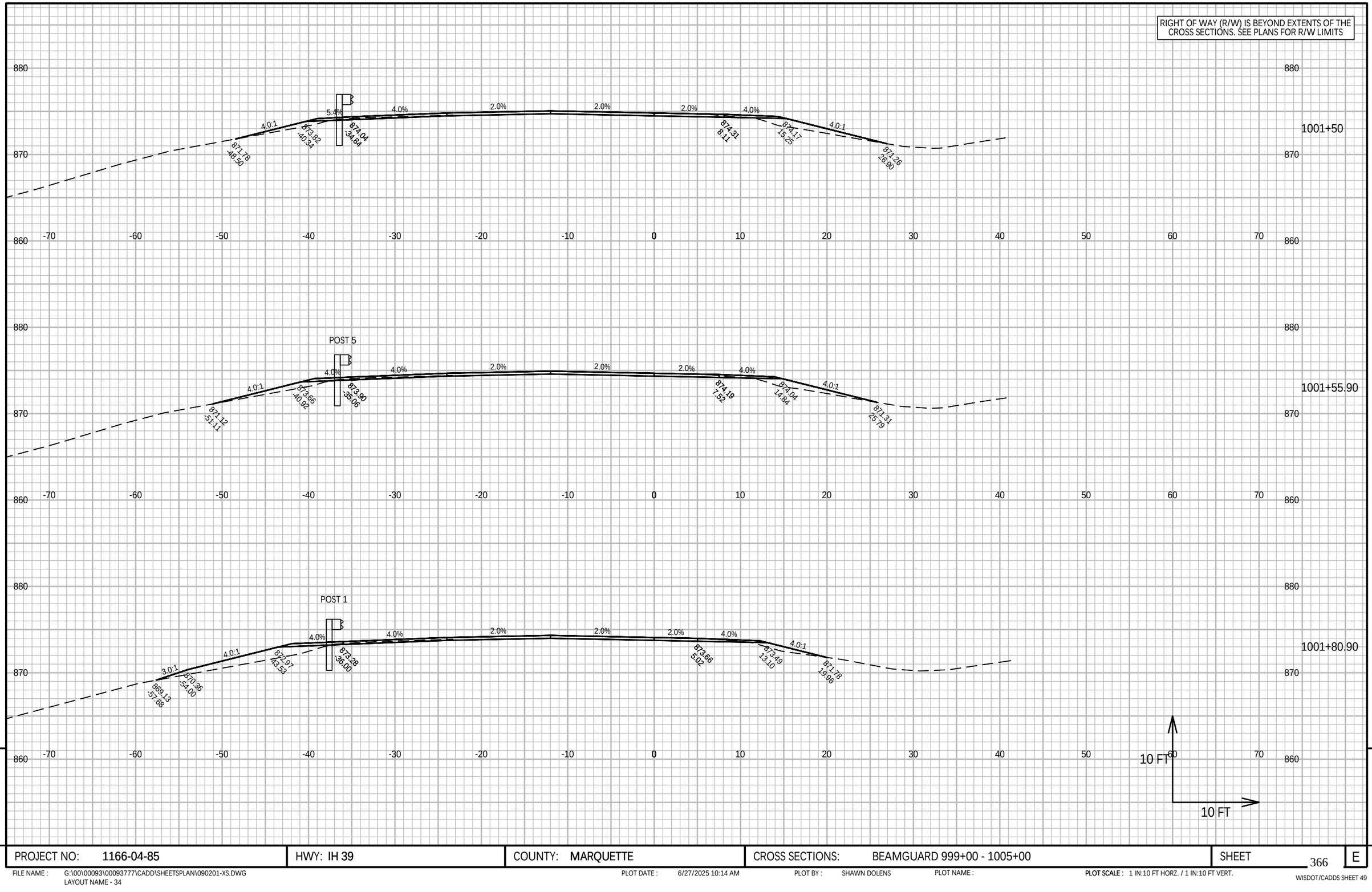
9 9

PROJECT NO: 1166-04-85	HWY: IH 39	COUNTY: MARQUETTE	CROSS SECTIONS: BEAMGUARD 999+00 - 1005+00	SHEET 365	E

FILE NAME : G:\00\00093\00093777\CADD\SHEETSPLAN\090201-XS.DWG
LAYOUT NAME - 33

PLOT DATE : 6/27/2025 10:13 AM PLOT BY : SHAWN DOLENS PLOT NAME : PLOT SCALE : 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

RIGHT OF WAY (R/W) IS BEYOND EXTENTS OF THE CROSS SECTIONS. SEE PLANS FOR R/W LIMITS

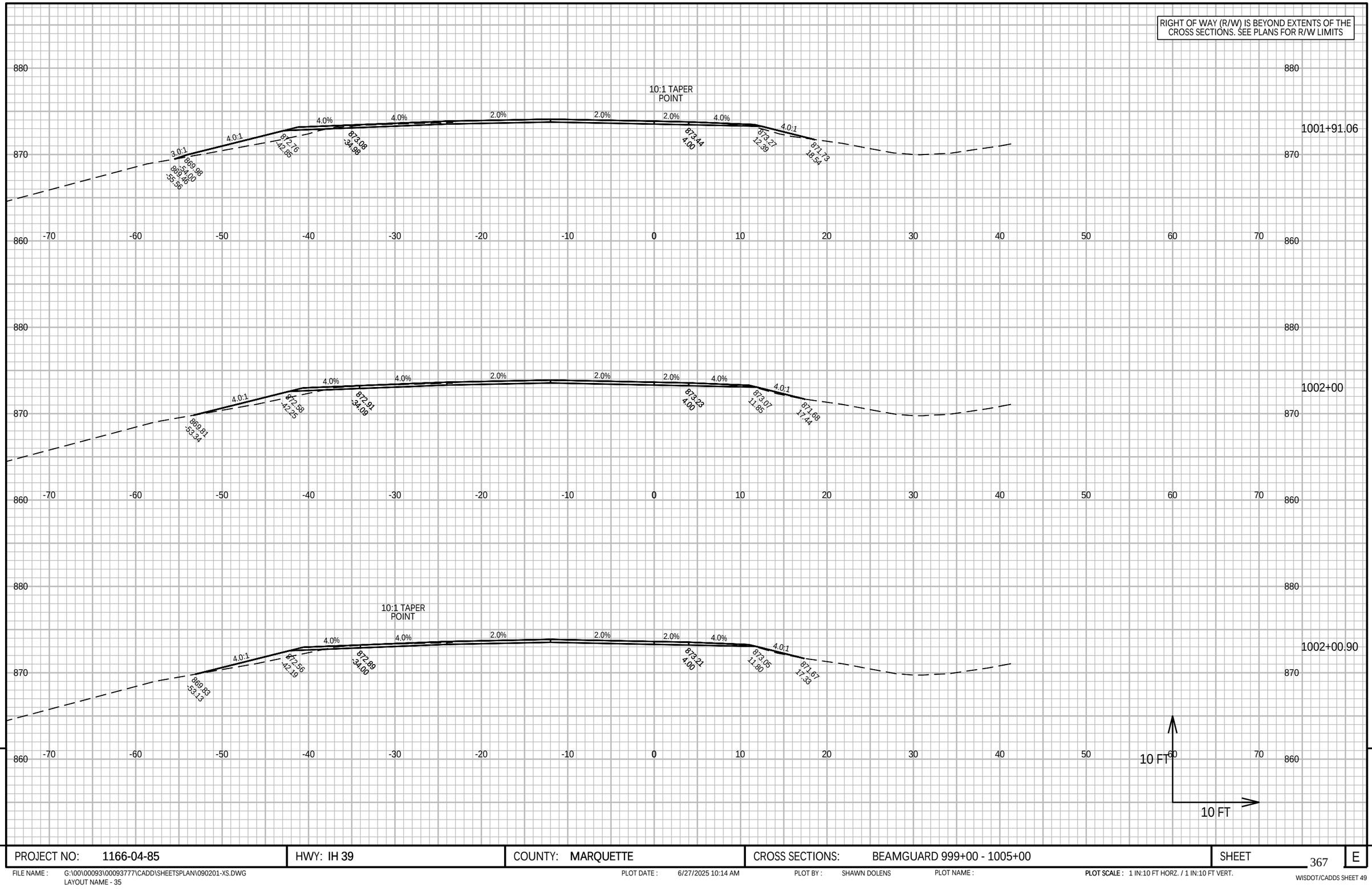


PROJECT NO: 1166-04-85	HWY: IH 39	COUNTY: MARQUETTE	CROSS SECTIONS: BEAMGUARD 999+00 - 1005+00	SHEET 366	E

FILE NAME : G:\00\00093\00093777\CADD\SHEETSPLAN\090201-XS.DWG
LAYOUT NAME - 34

PLOT DATE : 6/27/2025 10:14 AM PLOT BY : SHAWN DOLENS PLOT NAME : **PLOT SCALE :** 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

RIGHT OF WAY (R/W) IS BEYOND EXTENTS OF THE CROSS SECTIONS. SEE PLANS FOR R/W LIMITS



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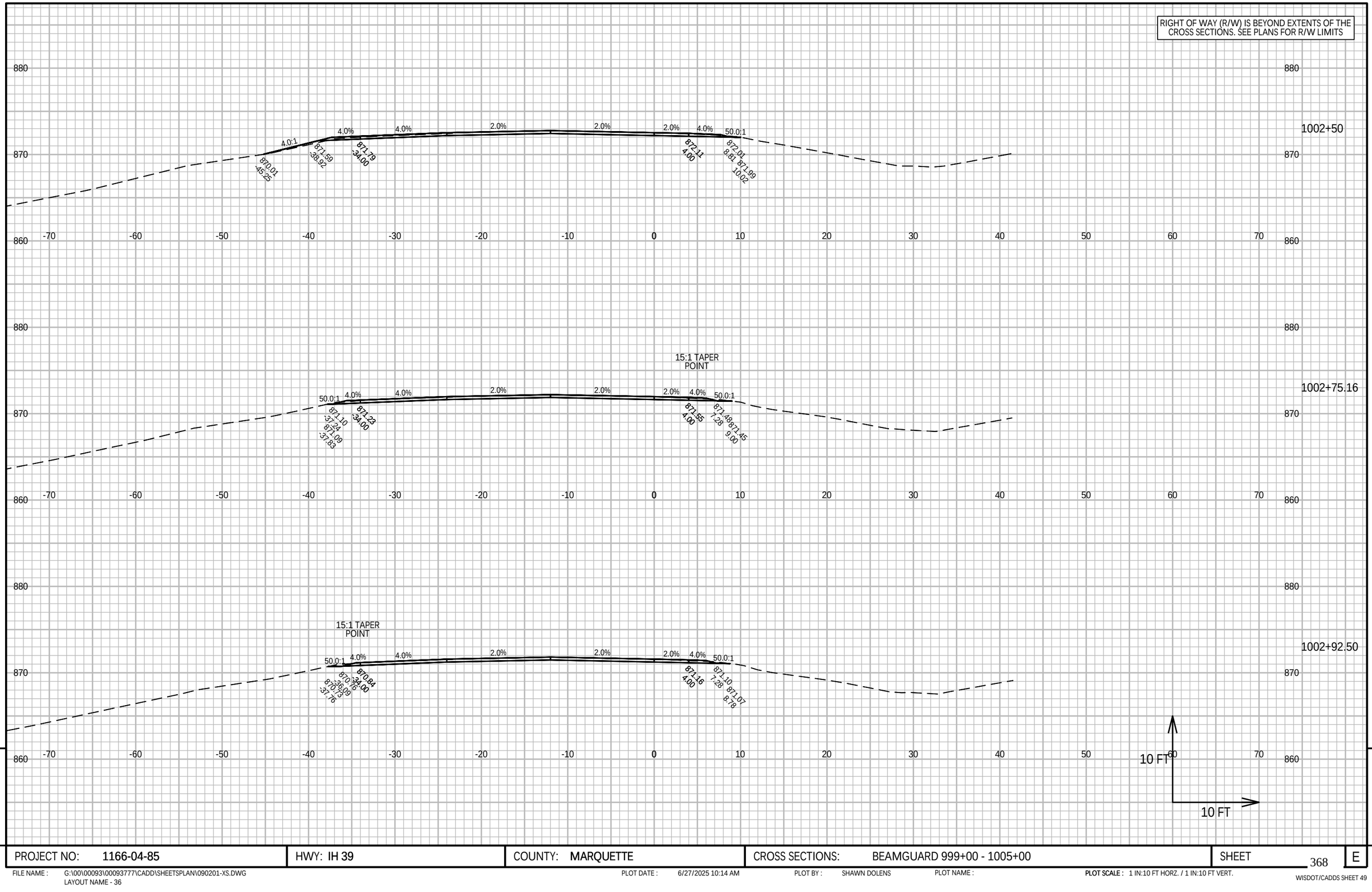
PROJECT NO: 1166-04-85	HWY: IH 39	COUNTY: MARQUETTE	CROSS SECTIONS: BEAMGUARD 999+00 - 1005+00	SHEET 367	E

FILE NAME : G:\00\00093\00093777\CADD\SHEETSPLAN\090201-XS.DWG
LAYOUT NAME - 35

PLOT DATE : 6/27/2025 10:14 AM PLOT BY : SHAWN DOLENS PLOT NAME : **PLOT SCALE :** 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

RIGHT OF WAY (R/W) IS BEYOND EXTENTS OF THE CROSS SECTIONS. SEE PLANS FOR R/W LIMITS



9

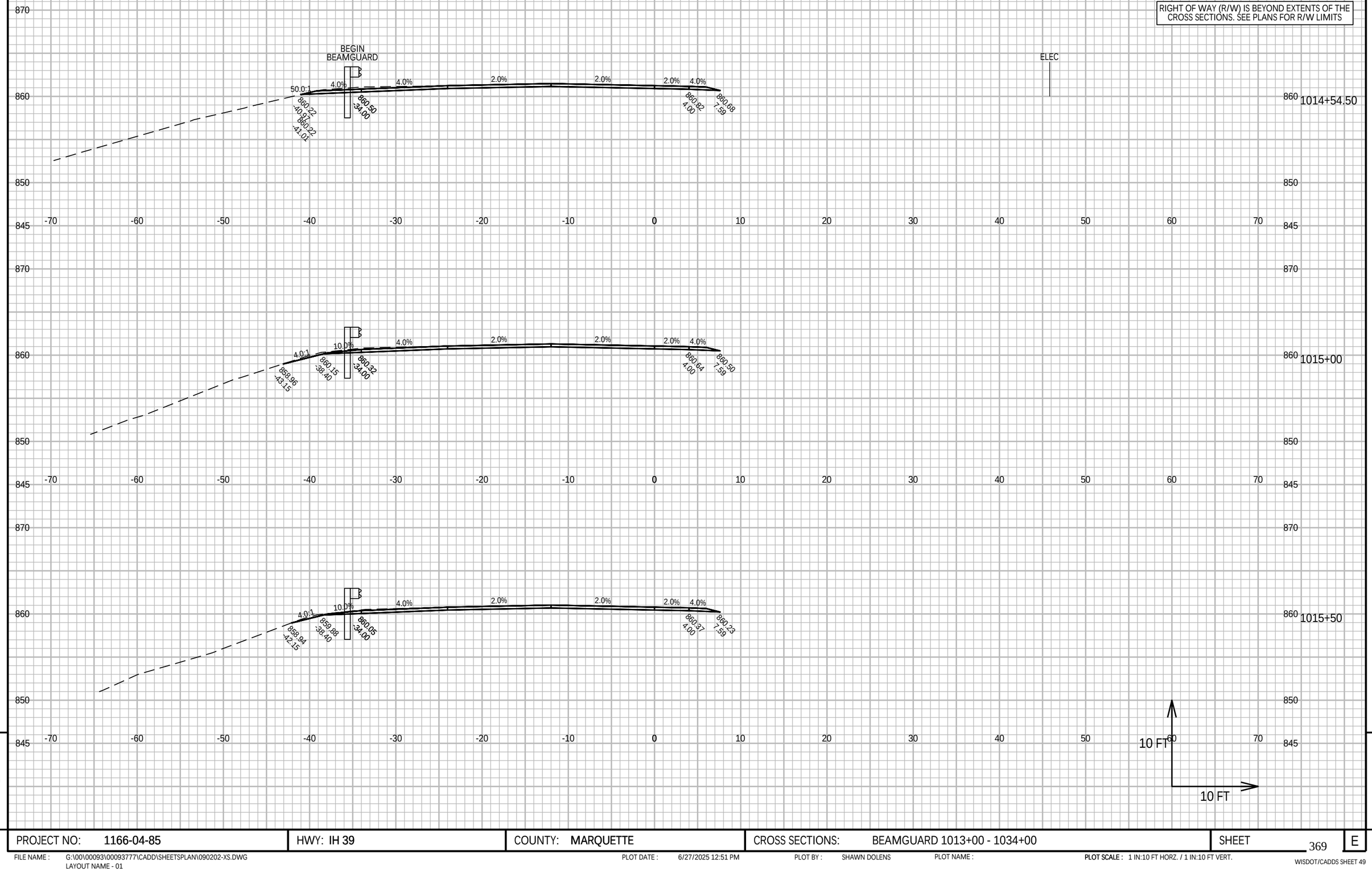
9

PROJECT NO: 1166-04-85	HWY: IH 39	COUNTY: MARQUETTE	CROSS SECTIONS: BEAMGUARD 999+00 - 1005+00	SHEET 368	E

FILE NAME : G:\00\00093\00093777\CADD\SHEETSPLAN\090201-XS.DWG
LAYOUT NAME - 36

PLOT DATE : 6/27/2025 10:14 AM PLOT BY : SHAWN DOLENS PLOT NAME : **PLOT SCALE :** 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

RIGHT OF WAY (R/W) IS BEYOND EXTENTS OF THE CROSS SECTIONS. SEE PLANS FOR R/W LIMITS



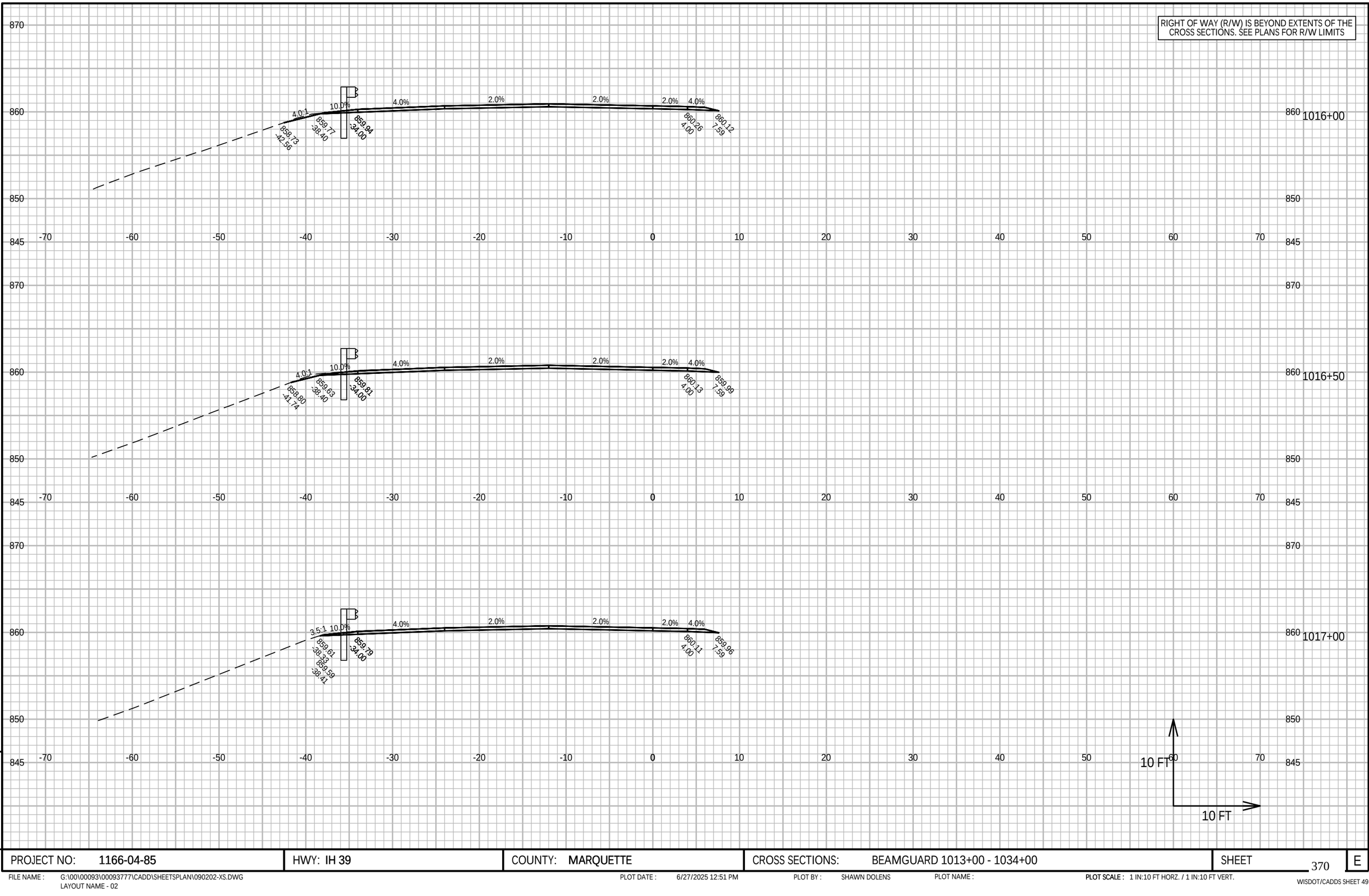
PROJECT NO: 1166-04-85	HWY: IH 39	COUNTY: MARQUETTE	CROSS SECTIONS: BEAMGUARD 1013+00 - 1034+00	SHEET 369	E

FILE NAME : G:\00\00093\00093777\CADD\SHEETSPLAN\090202-XS.DWG
LAYOUT NAME - 01

PLOT DATE : 6/27/2025 12:51 PM PLOT BY : SHAWN DOLENS PLOT NAME : **PLOT SCALE :** 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49

RIGHT OF WAY (R/W) IS BEYOND EXTENTS OF THE CROSS SECTIONS. SEE PLANS FOR R/W LIMITS



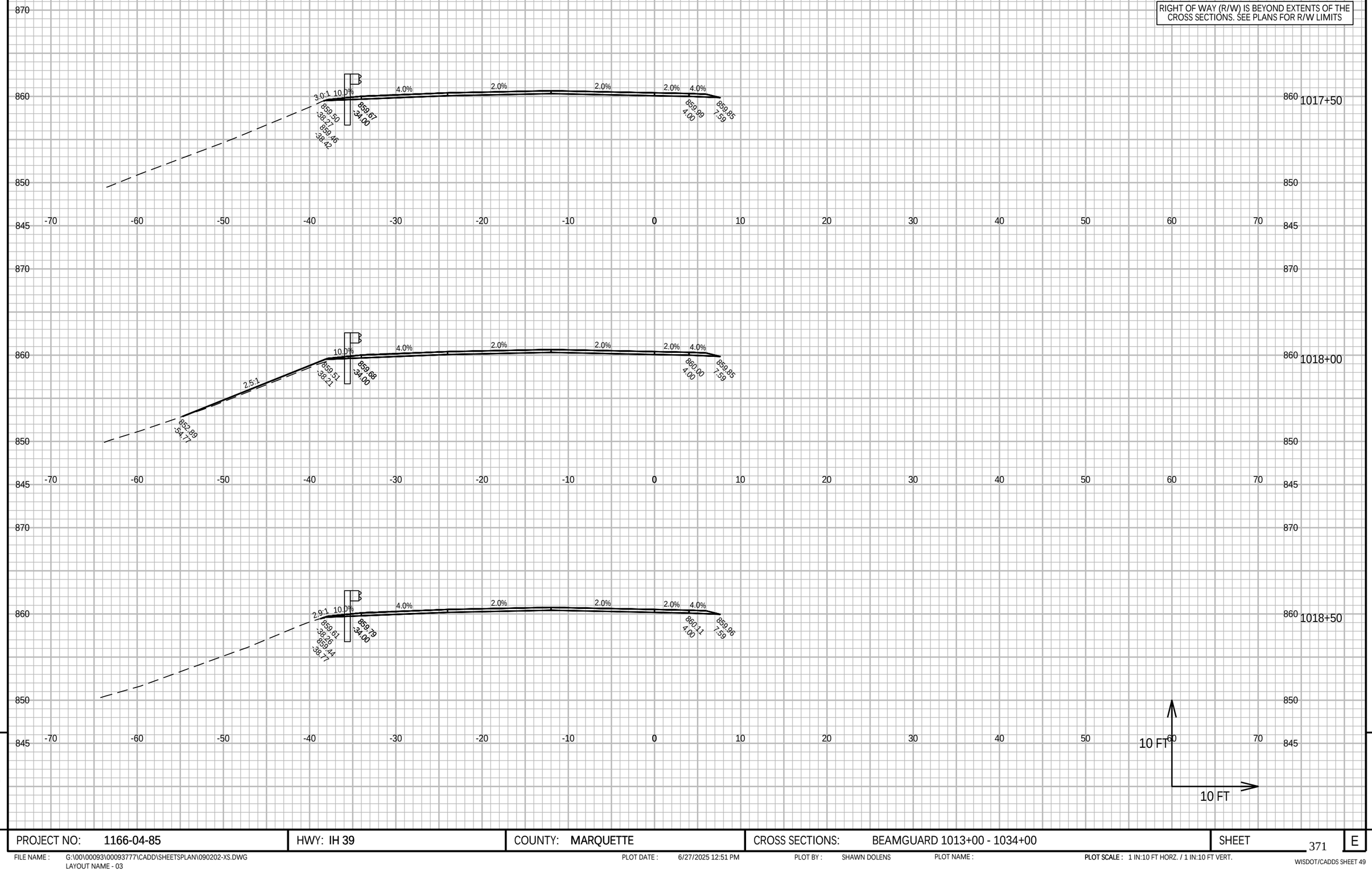
PROJECT NO: 1166-04-85	HWY: IH 39	COUNTY: MARQUETTE	CROSS SECTIONS: BEAMGUARD 1013+00 - 1034+00	SHEET 370	E

FILE NAME : G:\00\00093\00093777\CADD\SHEETSPLAN\090202-XS.DWG
LAYOUT NAME - 02

PLOT DATE : 6/27/2025 12:51 PM PLOT BY : SHAWN DOLENS PLOT NAME : PLOT SCALE : 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49

RIGHT OF WAY (R/W) IS BEYOND EXTENTS OF THE CROSS SECTIONS. SEE PLANS FOR R/W LIMITS



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PROJECT NO: 1166-04-85	HWY: IH 39	COUNTY: MARQUETTE	CROSS SECTIONS: BEAMGUARD 1013+00 - 1034+00	SHEET 371	E

FILE NAME : G:\00\00093\00093777\CADD\SHEETSPLAN\090202-XS.DWG
LAYOUT NAME - 03

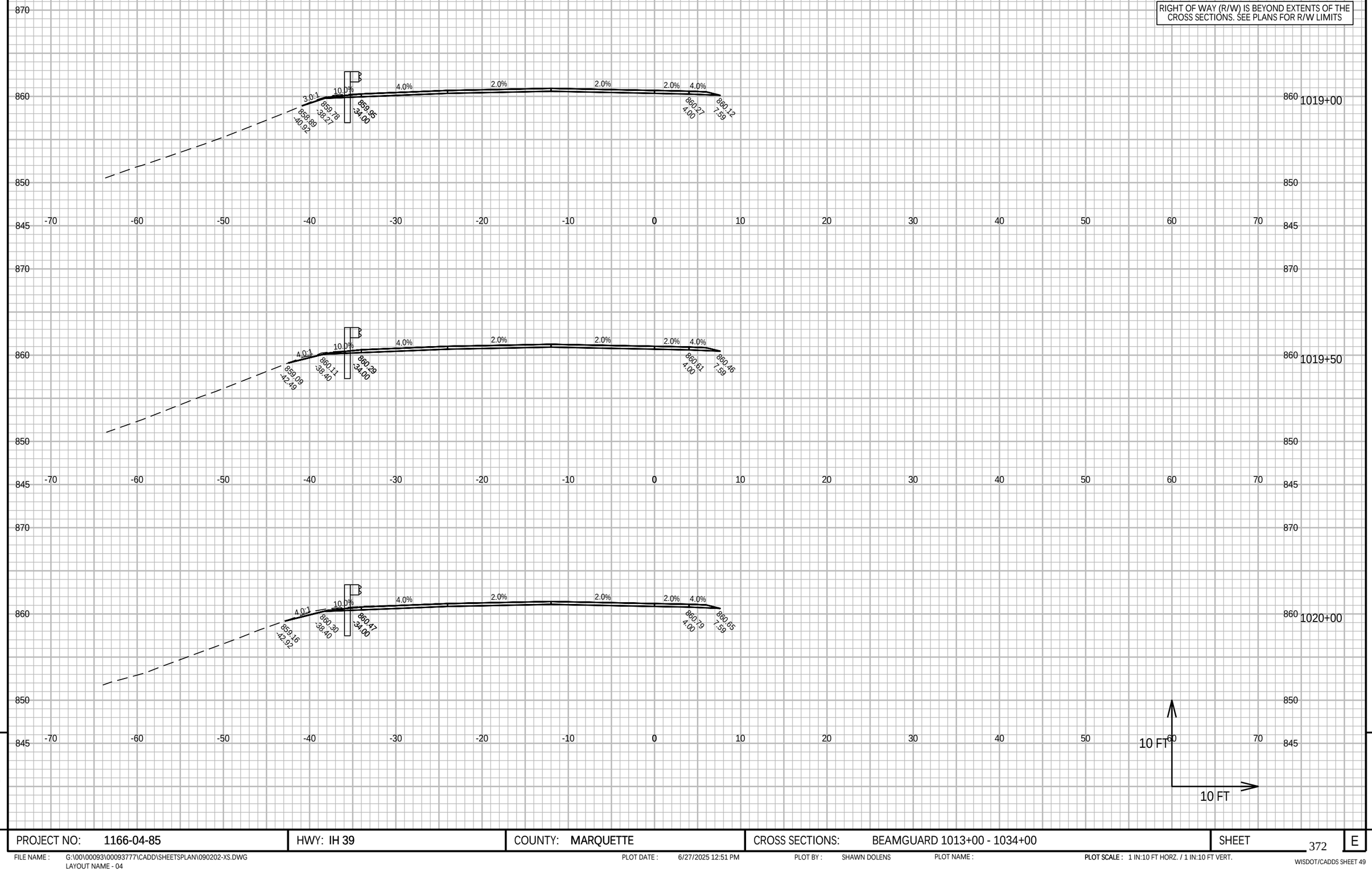
PLOT DATE : 6/27/2025 12:51 PM

PLOT BY : SHAWN DOLENS

PLOT NAME :

PLOT SCALE : 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

RIGHT OF WAY (R/W) IS BEYOND EXTENTS OF THE CROSS SECTIONS. SEE PLANS FOR R/W LIMITS



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PROJECT NO: 1166-04-85	HWY: IH 39	COUNTY: MARQUETTE	CROSS SECTIONS: BEAMGUARD 1013+00 - 1034+00	SHEET 372	E

FILE NAME : G:\00\00093\00093777\CADD\SHEETSPLAN\090202-XS.DWG
LAYOUT NAME - 04

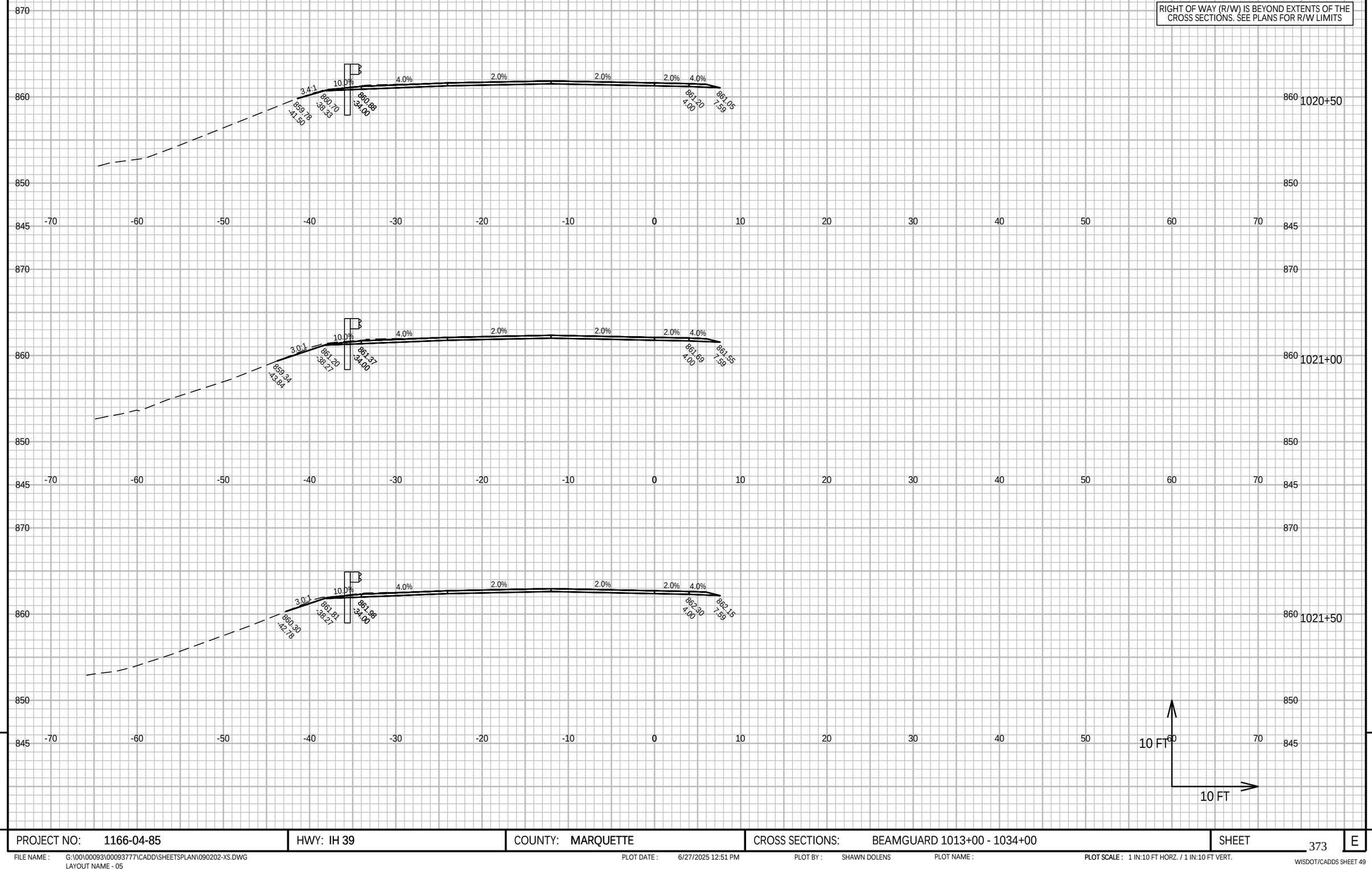
PLOT DATE : 6/27/2025 12:51 PM

PLOT BY : SHAWN DOLENS

PLOT NAME :

PLOT SCALE : 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

RIGHT OF WAY (R/W) IS BEYOND EXTENTS OF THE CROSS SECTIONS. SEE PLANS FOR R/W LIMITS



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PROJECT NO: 1166-04-85	HWY: IH 39	COUNTY: MARQUETTE	CROSS SECTIONS: BEAMGUARD 1013+00 - 1034+00	SHEET 373	E

FILE NAME : G:\00\00093\00093777\CADD\SHEETSPLAN\090202-XS.DWG
LAYOUT NAME - 05

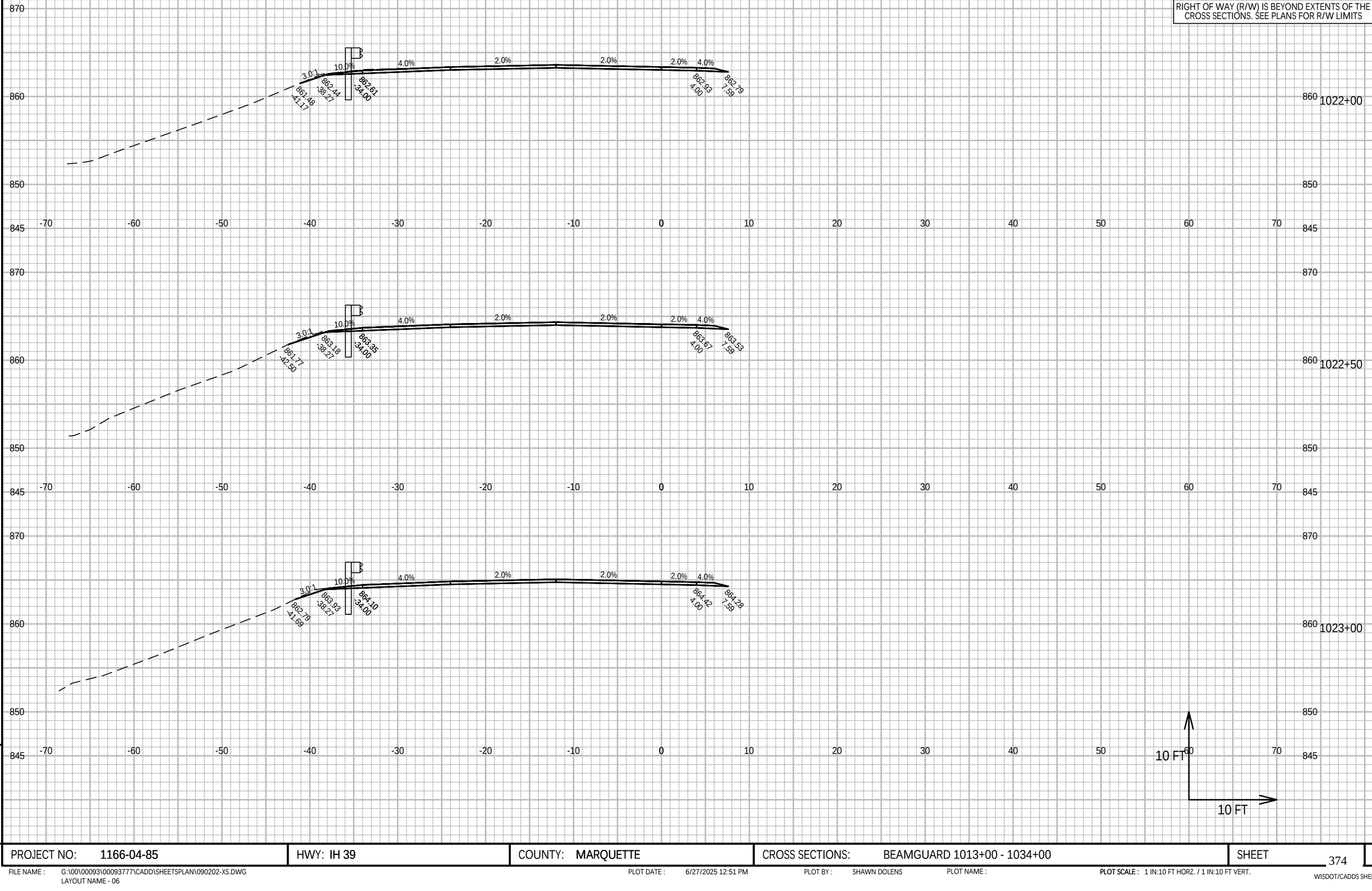
PLOT DATE : 6/27/2025 12:51 PM

PLOT BY : SHAWN DOLENS

PLOT NAME :

PLOT SCALE : 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

RIGHT OF WAY (R/W) IS BEYOND EXTENTS OF THE CROSS SECTIONS. SEE PLANS FOR R/W LIMITS



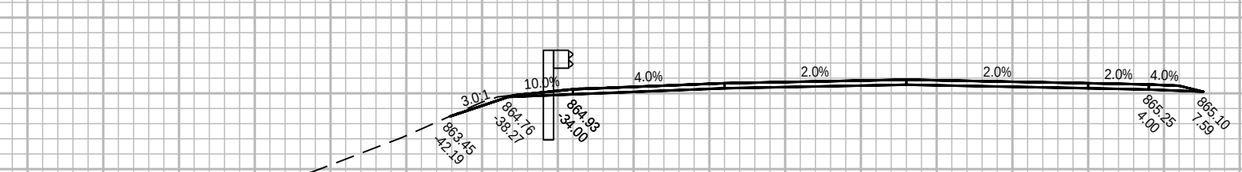
PROJECT NO: 1166-04-85	HWY: IH 39	COUNTY: MARQUETTE	CROSS SECTIONS: BEAMGUARD 1013+00 - 1034+00	SHEET 374	E

FILE NAME : G:\00\00093\00093777\CADD\SHEETSPLAN\090202-XS.DWG
LAYOUT NAME - 06

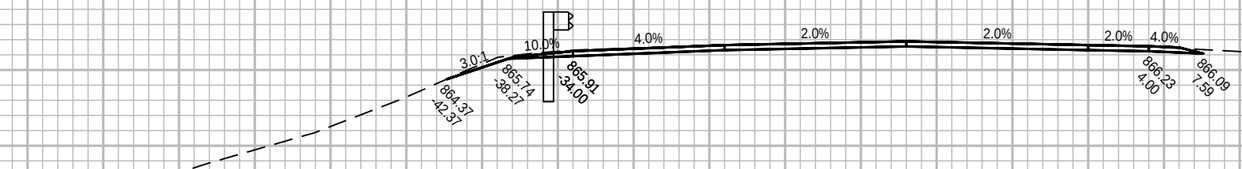
PLOT DATE : 6/27/2025 12:51 PM PLOT BY : SHAWN DOLENS PLOT NAME : **PLOT SCALE :** 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49

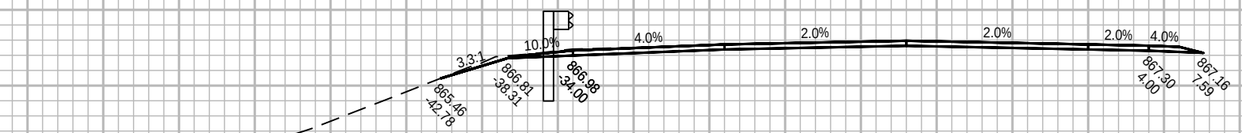
RIGHT OF WAY (R/W) IS BEYOND EXTENTS OF THE CROSS SECTIONS. SEE PLANS FOR R/W LIMITS



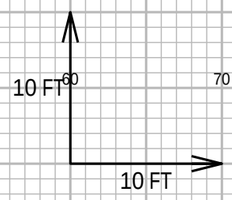
1023+50



1024+00



1024+50



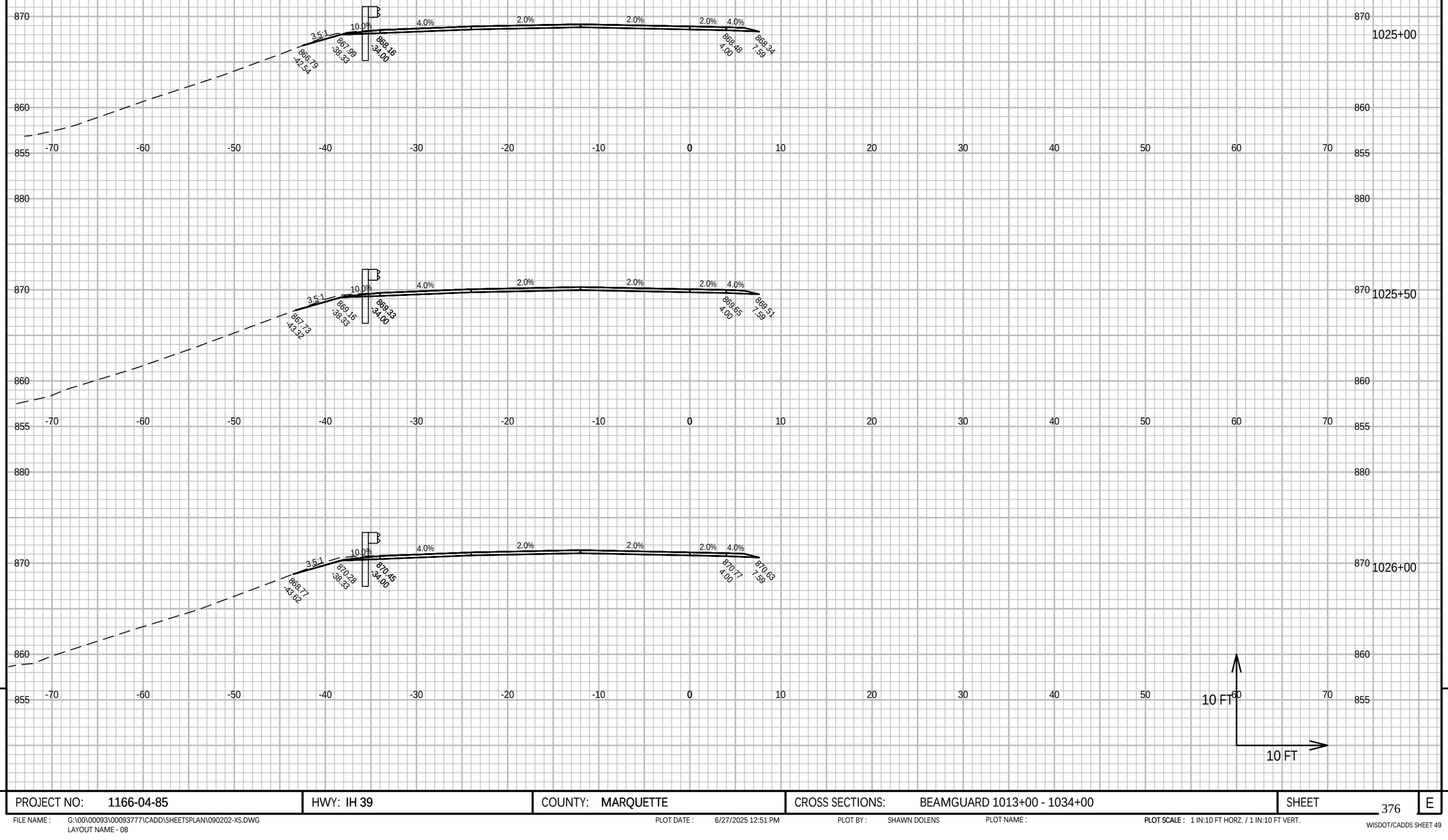
PROJECT NO: 1166-04-85	HWY: IH 39	COUNTY: MARQUETTE	CROSS SECTIONS: BEAMGUARD 1013+00 - 1034+00	SHEET 375	E

FILE NAME : G:\00\00093\00093777\CADD\SHEETSPLAN\090202-XS.DWG
LAYOUT NAME - 07

PLOT DATE : 6/27/2025 12:51 PM PLOT BY : SHAWN DOLENS PLOT NAME : PLOT SCALE : 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49

RIGHT OF WAY (R/W) IS BEYOND EXTENTS OF THE CROSS SECTIONS. SEE PLANS FOR R/W LIMITS



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PROJECT NO: 1166-04-85	HWY: IH 39	COUNTY: MARQUETTE	CROSS SECTIONS: BEAMGUARD 1013+00 - 1034+00	SHEET 376	E

FILE NAME : G:\00\00093\00093777\CADD\SHEETSPLAN\090202-XS.DWG
LAYOUT NAME - 08

PLOT DATE : 6/27/2025 12:51 PM

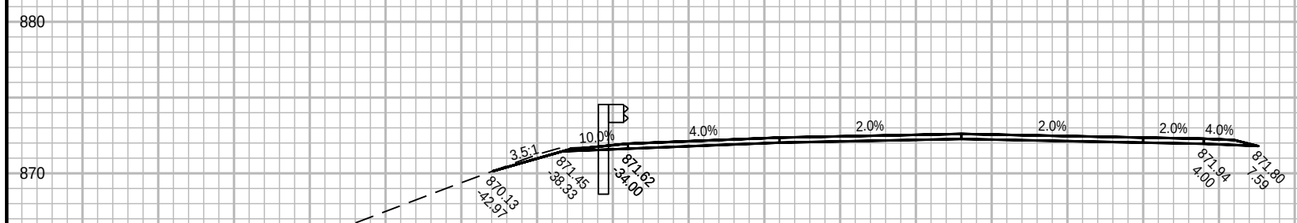
PLOT BY : SHAWN DOLENS

PLOT NAME :

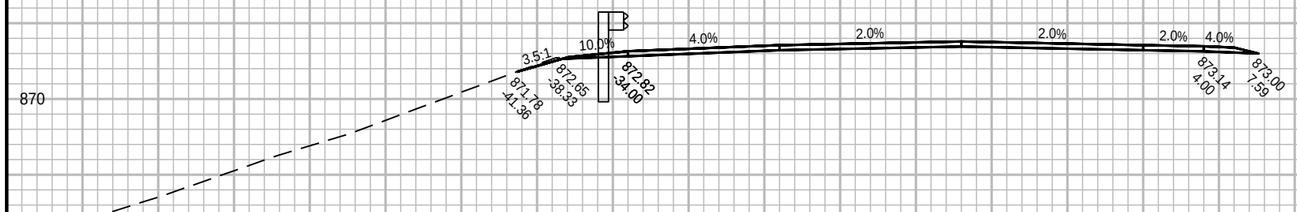
PLOT SCALE : 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49

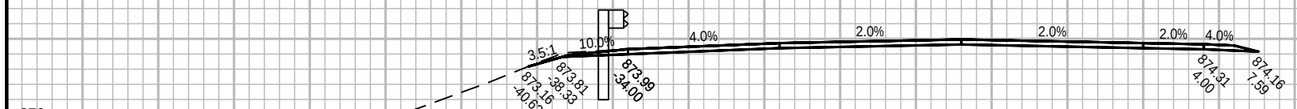
RIGHT OF WAY (R/W) IS BEYOND EXTENTS OF THE CROSS SECTIONS. SEE PLANS FOR R/W LIMITS



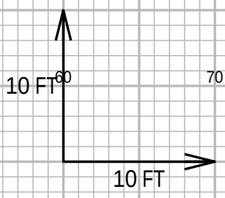
1026+50



1027+00



1027+50



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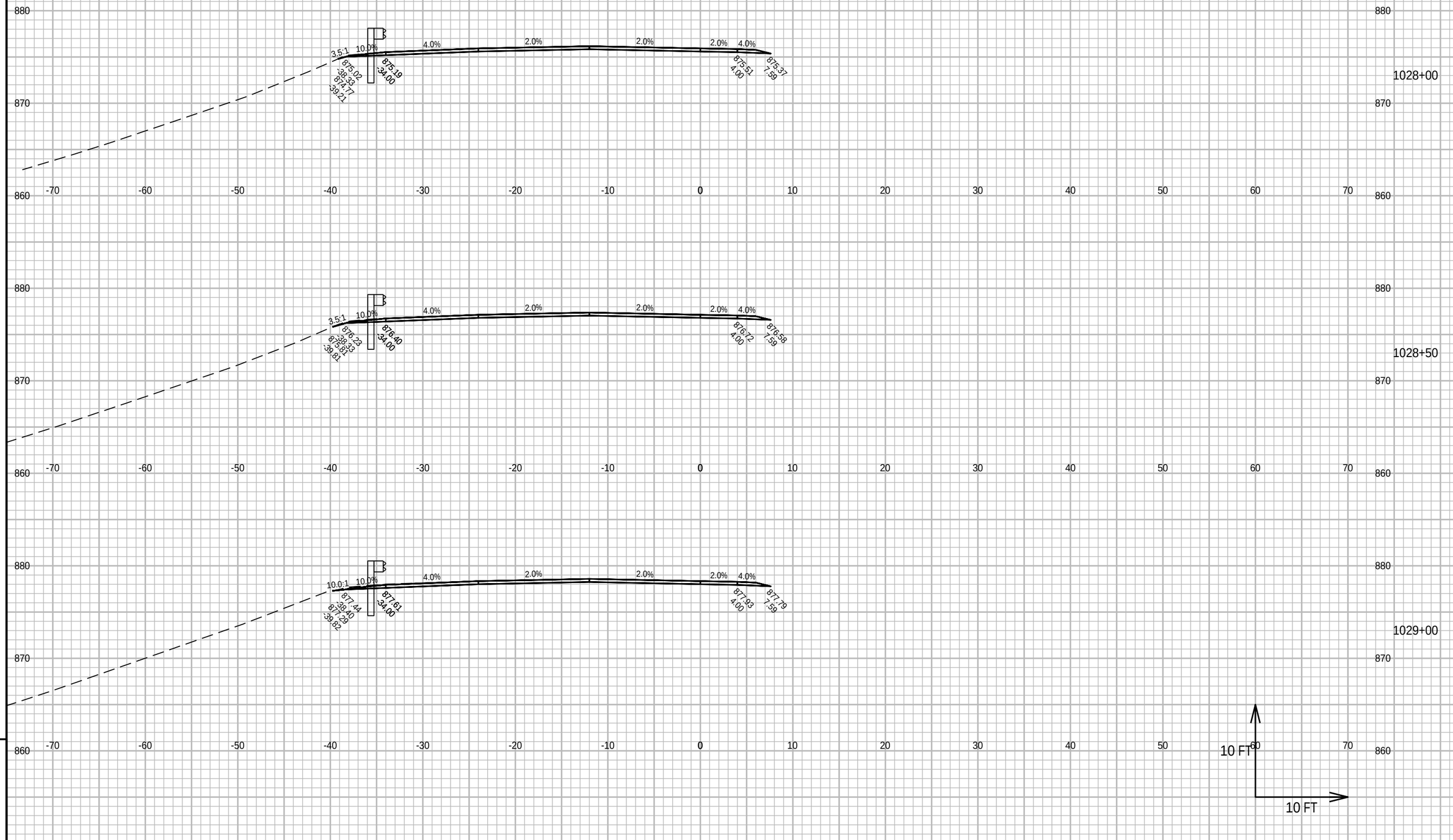
PROJECT NO: 1166-04-85	HWY: IH 39	COUNTY: MARQUETTE	CROSS SECTIONS: BEAMGUARD 1013+00 - 1034+00	SHEET 377	E

FILE NAME : G:\00\00093\00093777\CADD\SHEETSPLAN\090202-XS.DWG
LAYOUT NAME - 09

PLOT DATE : 6/27/2025 12:52 PM PLOT BY : SHAWN DOLENS PLOT NAME : **PLOT SCALE :** 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49

RIGHT OF WAY (R/W) IS BEYOND EXTENTS OF THE CROSS SECTIONS. SEE PLANS FOR R/W LIMITS



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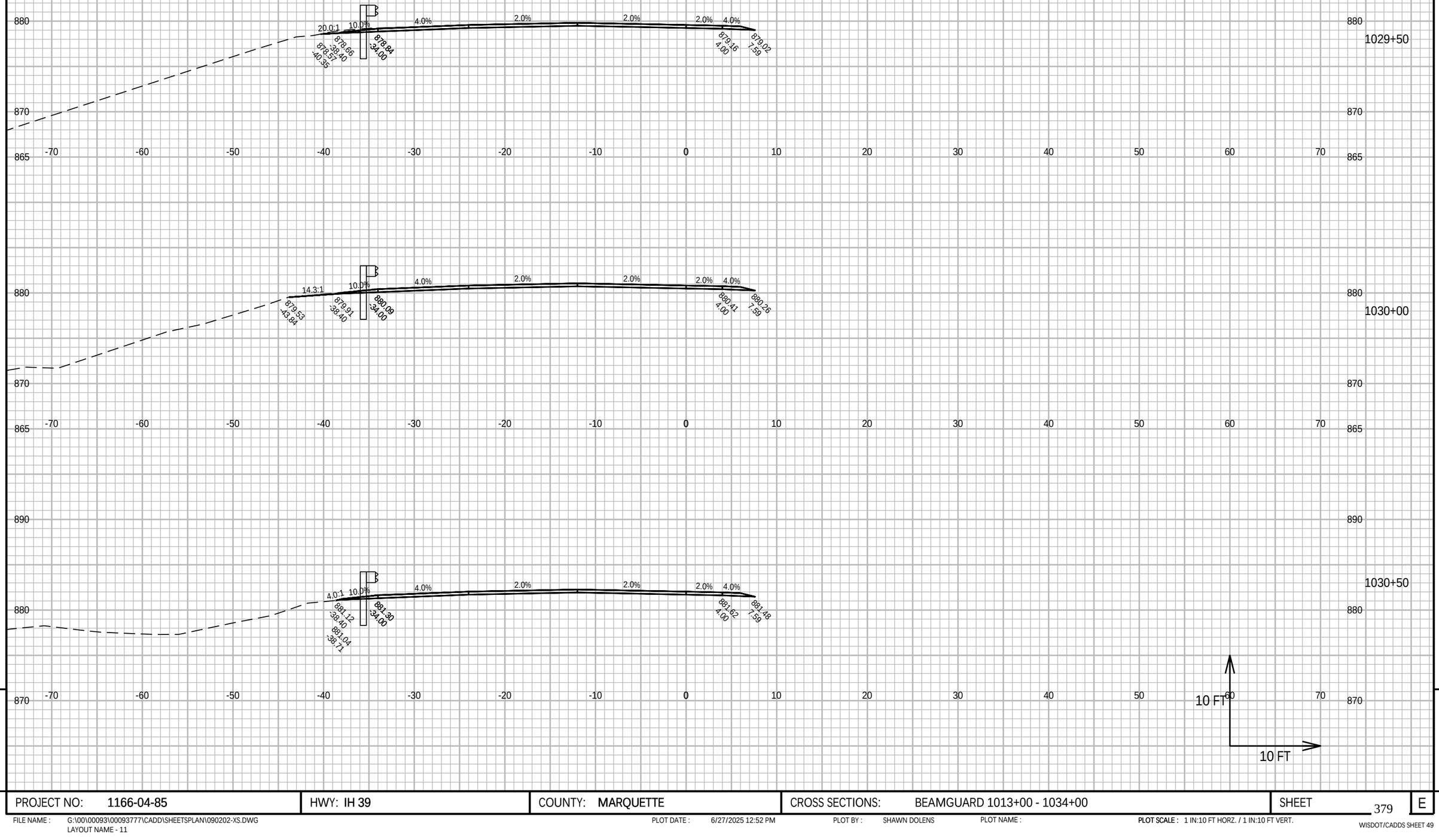
PROJECT NO: 1166-04-85	HWY: IH 39	COUNTY: MARQUETTE	CROSS SECTIONS: BEAMGUARD 1013+00 - 1034+00	SHEET 378	E

FILE NAME : G:\00\00093\00093777\CADD\SHEETSPLAN\090202-XS.DWG
LAYOUT NAME - 10

PLOT DATE : 6/27/2025 12:52 PM PLOT BY : SHAWN DOLENS PLOT NAME : **PLOT SCALE :** 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49

RIGHT OF WAY (R/W) IS BEYOND EXTENTS OF THE CROSS SECTIONS. SEE PLANS FOR R/W LIMITS



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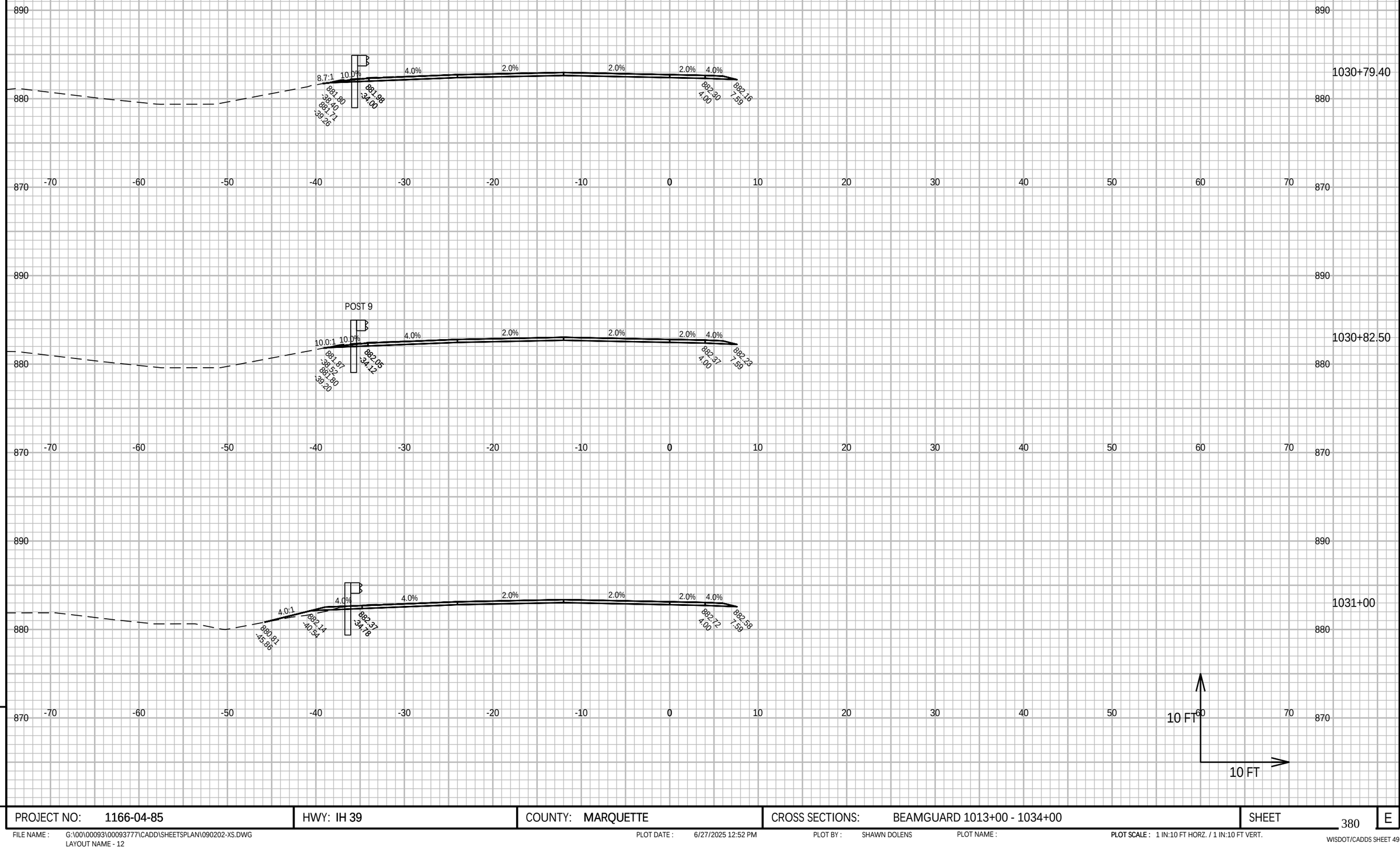
PROJECT NO: 1166-04-85	HWY: IH 39	COUNTY: MARQUETTE	CROSS SECTIONS: BEAMGUARD 1013+00 - 1034+00	SHEET 379	E

FILE NAME : G:\00\00093\00093777\CADD\SHEETSPLAN\090202-XS.DWG
LAYOUT NAME - 11

PLOT DATE : 6/27/2025 12:52 PM PLOT BY : SHAWN DOLENS PLOT NAME : **PLOT SCALE :** 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49

RIGHT OF WAY (R/W) IS BEYOND EXTENTS OF THE CROSS SECTIONS. SEE PLANS FOR R/W LIMITS



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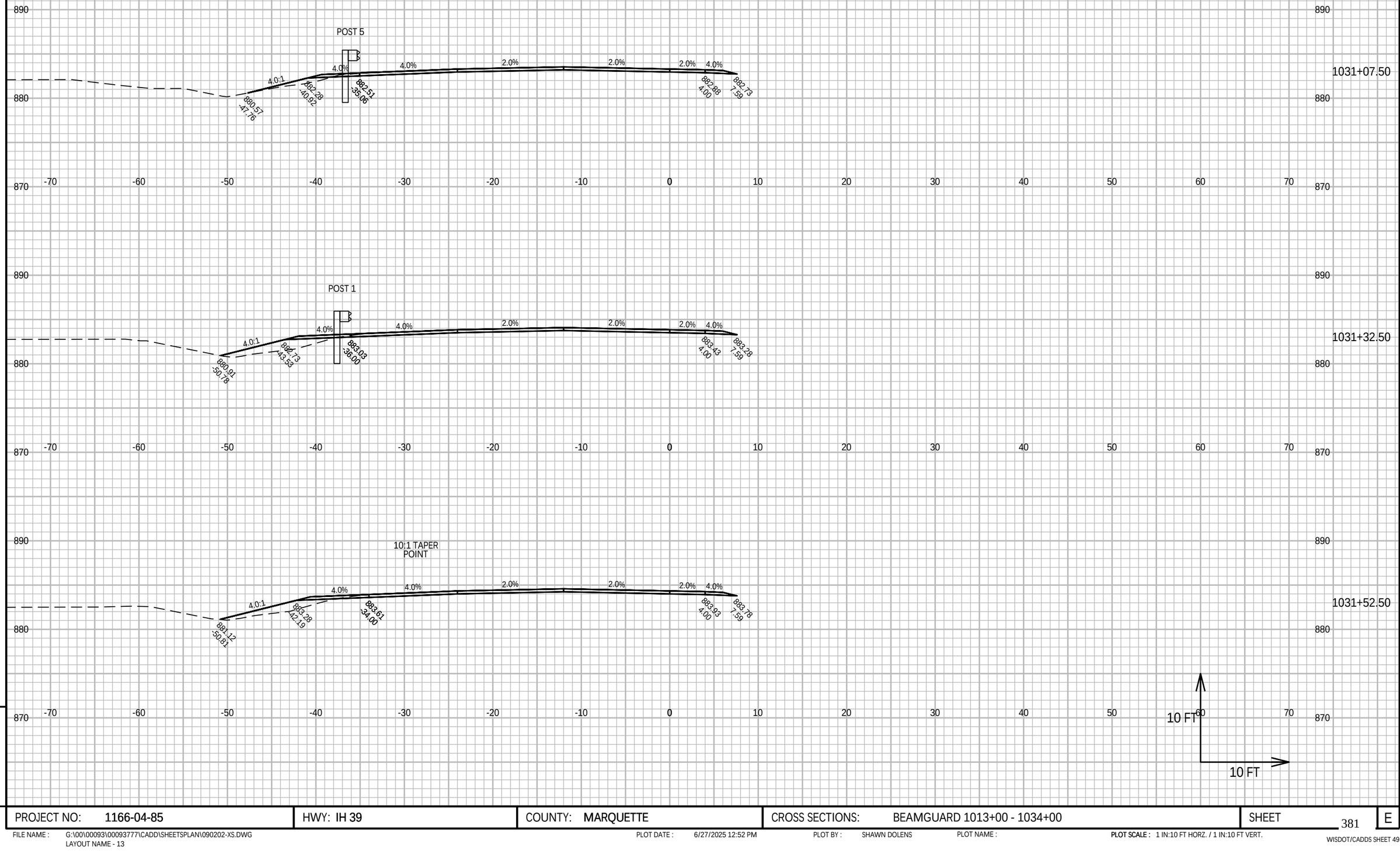
PROJECT NO: 1166-04-85	HWY: IH 39	COUNTY: MARQUETTE	CROSS SECTIONS: BEAMGUARD 1013+00 - 1034+00	SHEET 380	E

FILE NAME : G:\00\00093\00093777\CADD\SHEETSPLAN\090202-XS.DWG
LAYOUT NAME - 12

PLOT DATE : 6/27/2025 12:52 PM PLOT BY : SHAWN DOLENS PLOT NAME : **PLOT SCALE :** 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49

RIGHT OF WAY (R/W) IS BEYOND EXTENTS OF THE CROSS SECTIONS. SEE PLANS FOR R/W LIMITS



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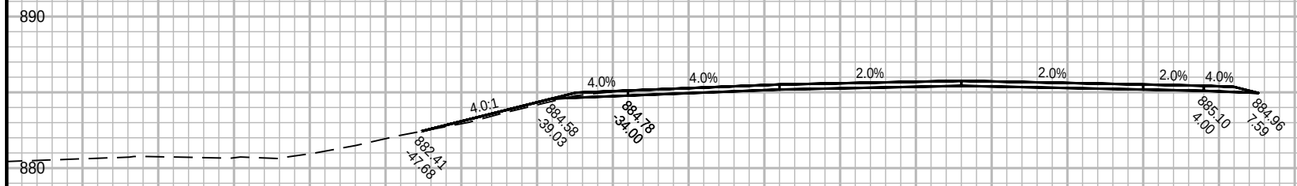
PROJECT NO: 1166-04-85	HWY: IH 39	COUNTY: MARQUETTE	CROSS SECTIONS: BEAMGUARD 1013+00 - 1034+00	SHEET 381	E

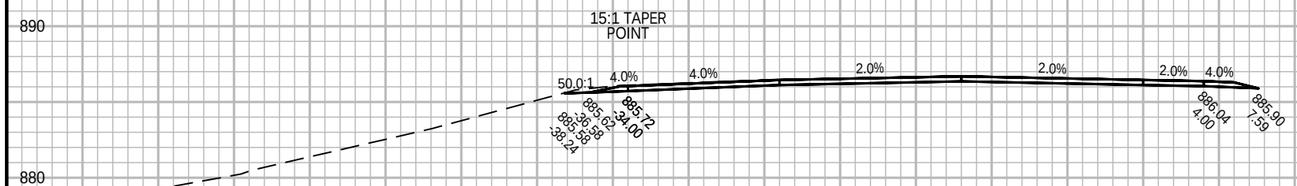
FILE NAME : G:\00\00093\00093777\CADD\SHEETSPLAN\090202-XS.DWG
LAYOUT NAME - 13

PLOT DATE : 6/27/2025 12:52 PM PLOT BY : SHAWN DOLENS PLOT NAME : PLOT SCALE : 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

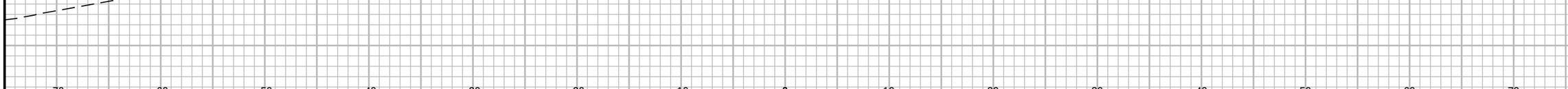
RIGHT OF WAY (R/W) IS BEYOND EXTENTS OF THE CROSS SECTIONS. SEE PLANS FOR R/W LIMITS

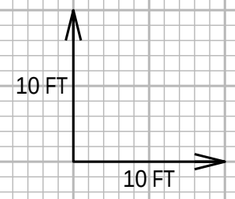


1032+00



1032+44.10





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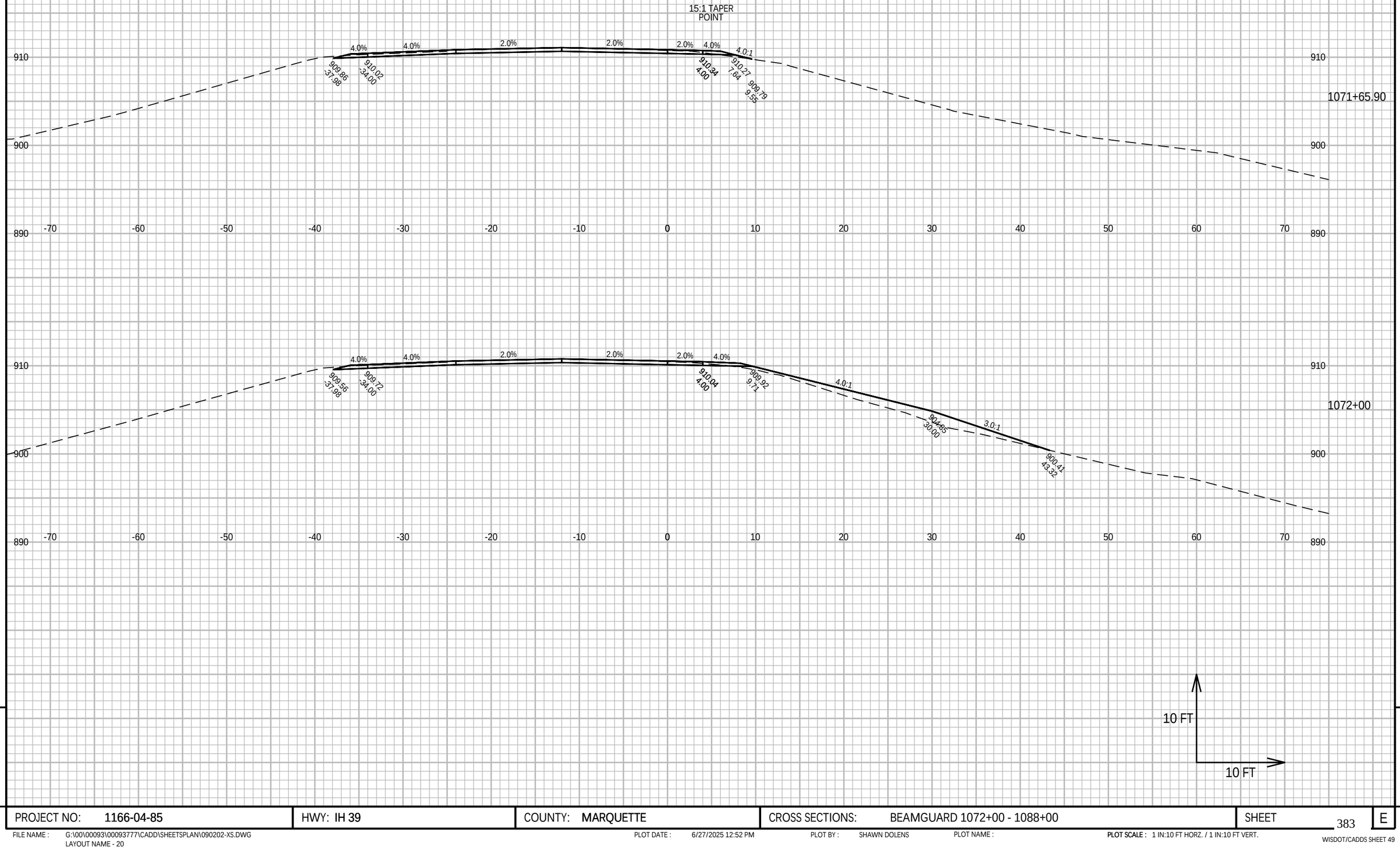
PROJECT NO: 1166-04-85	HWY: IH 39	COUNTY: MARQUETTE	CROSS SECTIONS: BEAMGUARD 1013+00 - 1034+00	SHEET 382	E

FILE NAME : G:\00\00093\00093777\CADD\SHEETSPLAN\090202-XS.DWG
LAYOUT NAME - 14

PLOT DATE : 6/27/2025 12:52 PM PLOT BY : SHAWN DOLENS PLOT NAME : **PLOT SCALE :** 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

RIGHT OF WAY (R/W) IS BEYOND EXTENTS OF THE CROSS SECTIONS. SEE PLANS FOR R/W LIMITS



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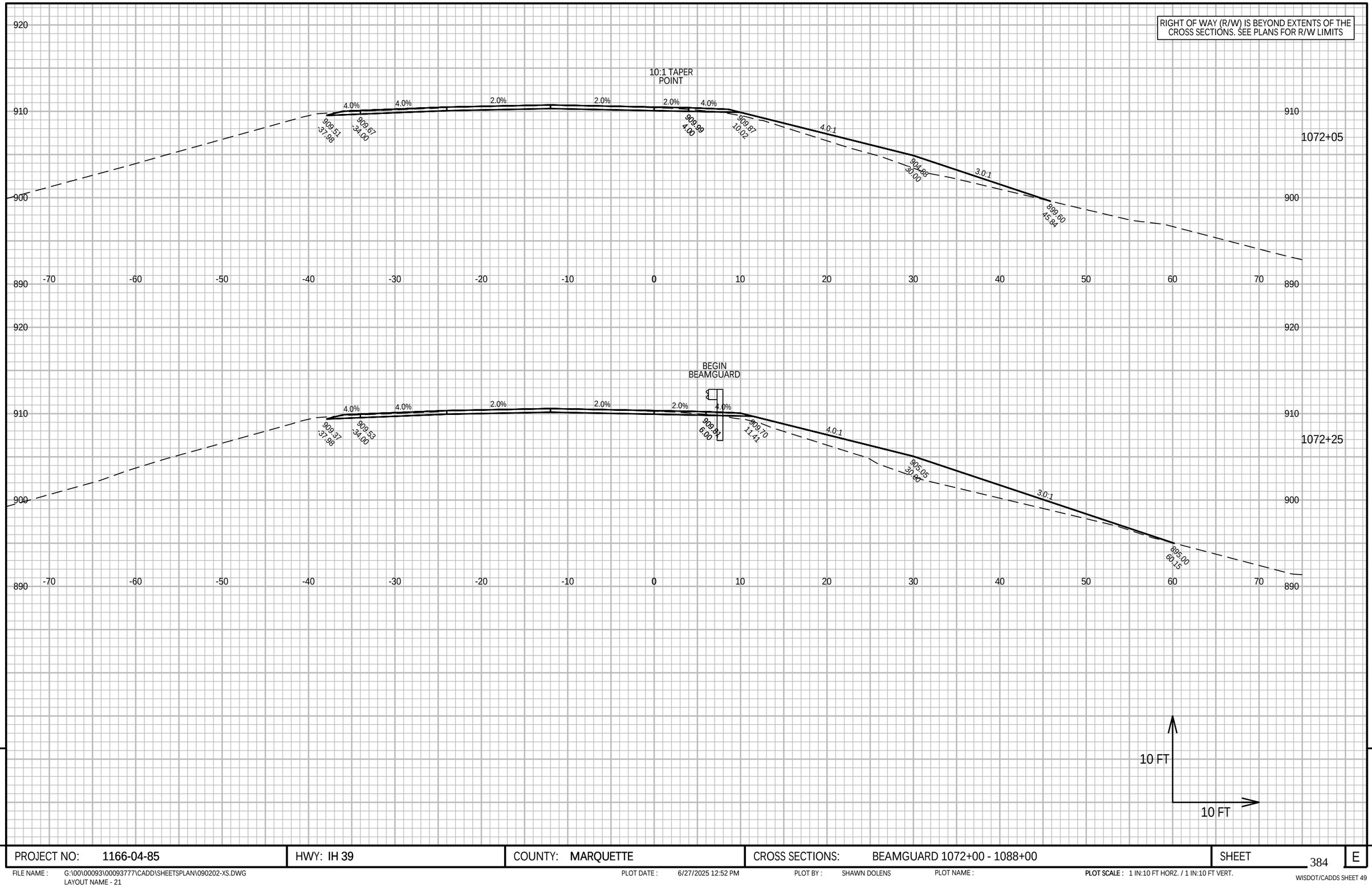
PROJECT NO: 1166-04-85	HWY: IH 39	COUNTY: MARQUETTE	CROSS SECTIONS: BEAMGUARD 1072+00 - 1088+00	SHEET 383	E

FILE NAME : G:\00\00093\00093777\CADD\SHEETSPLAN\090202-XS.DWG
LAYOUT NAME - 20

PLOT DATE : 6/27/2025 12:52 PM PLOT BY : SHAWN DOLENS PLOT NAME : **PLOT SCALE :** 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

RIGHT OF WAY (R/W) IS BEYOND EXTENTS OF THE CROSS SECTIONS. SEE PLANS FOR R/W LIMITS



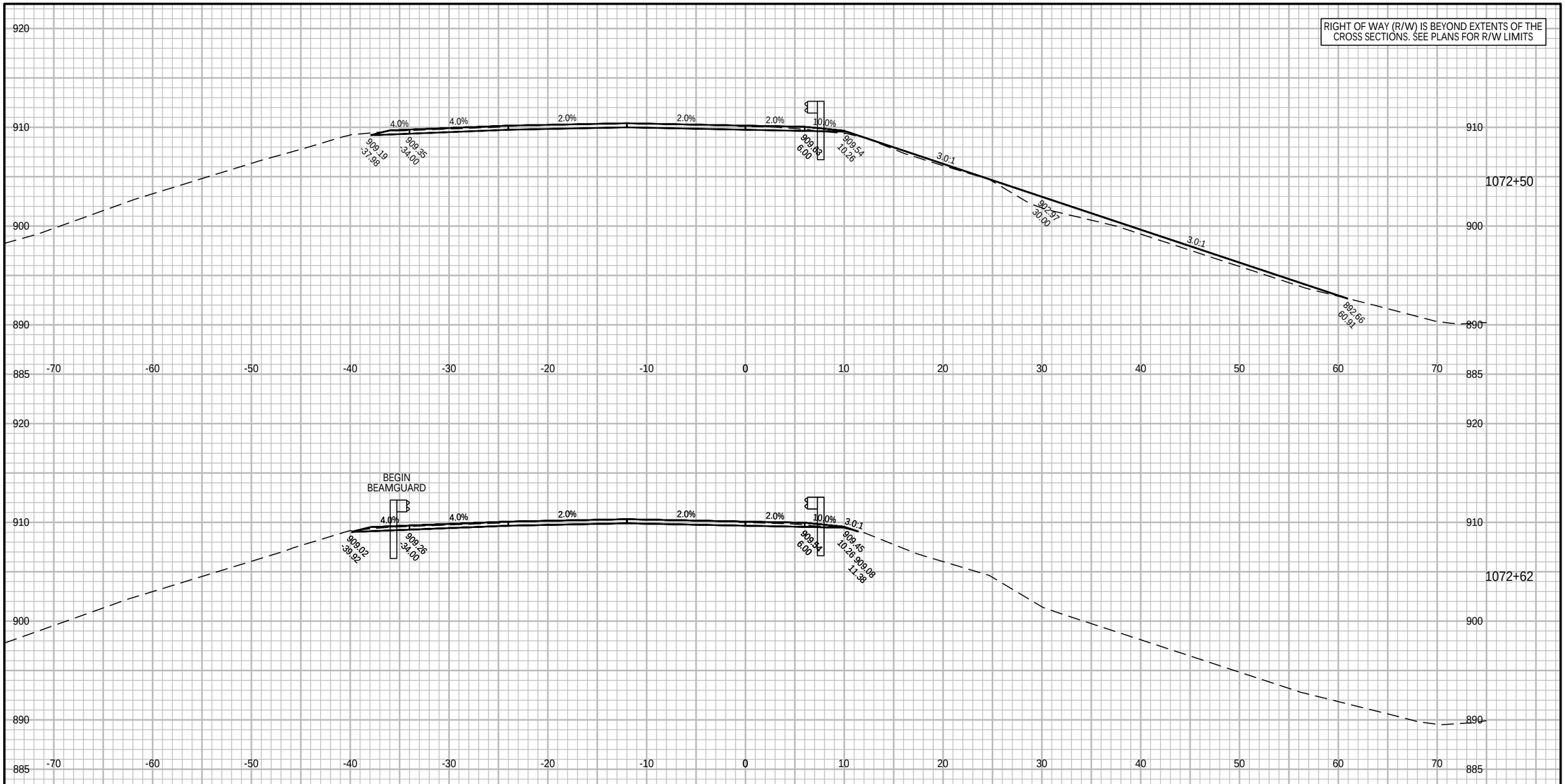
PROJECT NO: 1166-04-85	HWY: IH 39	COUNTY: MARQUETTE	CROSS SECTIONS: BEAMGUARD 1072+00 - 1088+00	SHEET 384	E

FILE NAME : G:\00\00093\00093777\CADD\SHEETSPLAN\090202-XS.DWG
LAYOUT NAME - 21

PLOT DATE : 6/27/2025 12:52 PM PLOT BY : SHAWN DOLENS PLOT NAME : **PLOT SCALE :** 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49

RIGHT OF WAY (R/W) IS BEYOND EXTENTS OF THE CROSS SECTIONS. SEE PLANS FOR R/W LIMITS



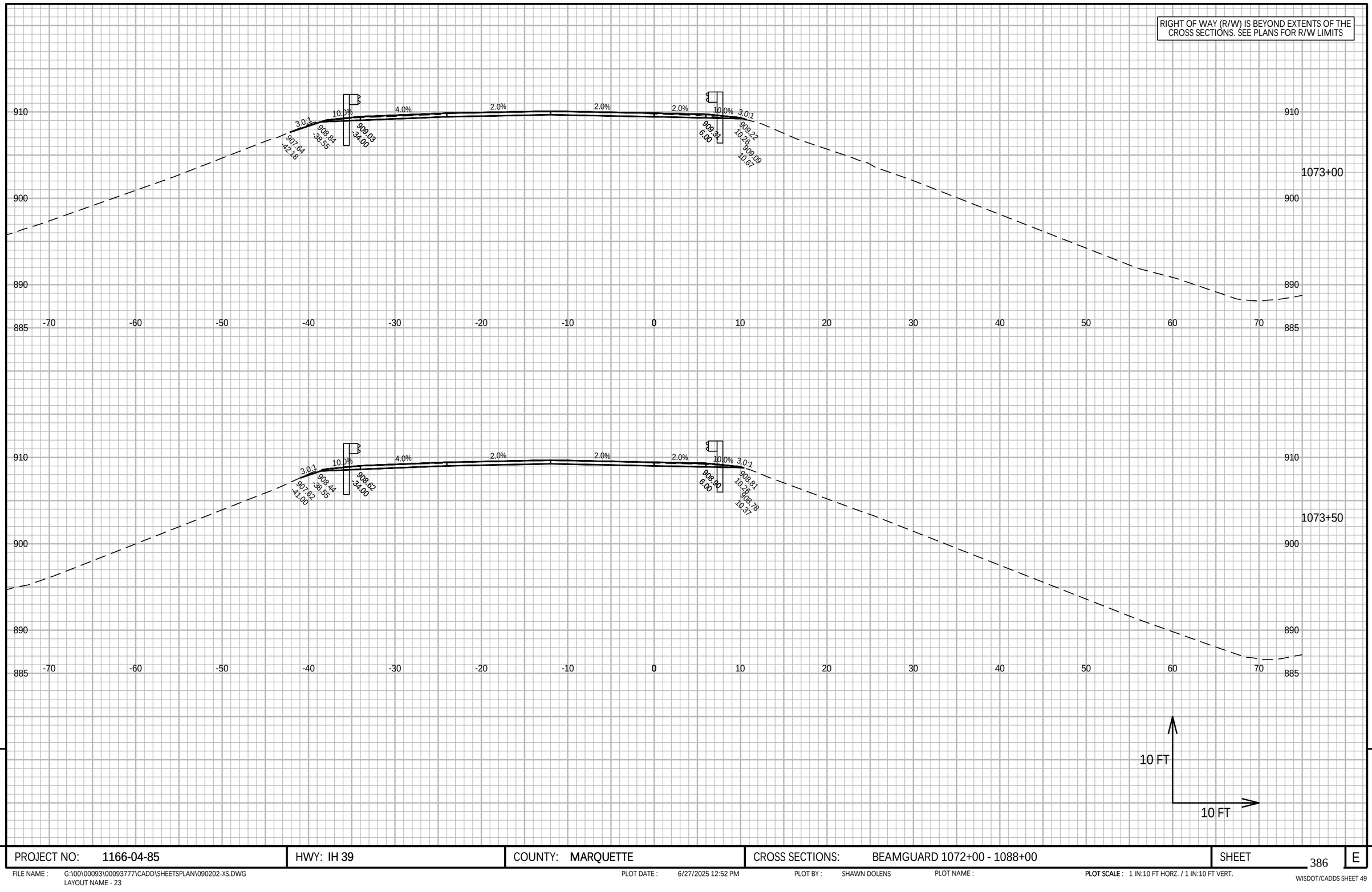
PROJECT NO: 1166-04-85	HWY: IH 39	COUNTY: MARQUETTE	CROSS SECTIONS: BEAMGUARD 1072+00 - 1088+00	SHEET 385	E

FILE NAME : G:\00\00093\00093777\CADD\SHEETSPLAN\090202-XS.DWG
LAYOUT NAME - 22

PLOT DATE : 6/27/2025 12:52 PM PLOT BY : SHAWN DOLENS PLOT NAME : **PLOT SCALE :** 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49

RIGHT OF WAY (R/W) IS BEYOND EXTENTS OF THE CROSS SECTIONS. SEE PLANS FOR R/W LIMITS



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PROJECT NO: 1166-04-85	HWY: IH 39	COUNTY: MARQUETTE	CROSS SECTIONS: BEAMGUARD 1072+00 - 1088+00	SHEET 386	E

FILE NAME : G:\00\00093\00093777\CADD\SHEETSPLAN\090202-XS.DWG
LAYOUT NAME - 23

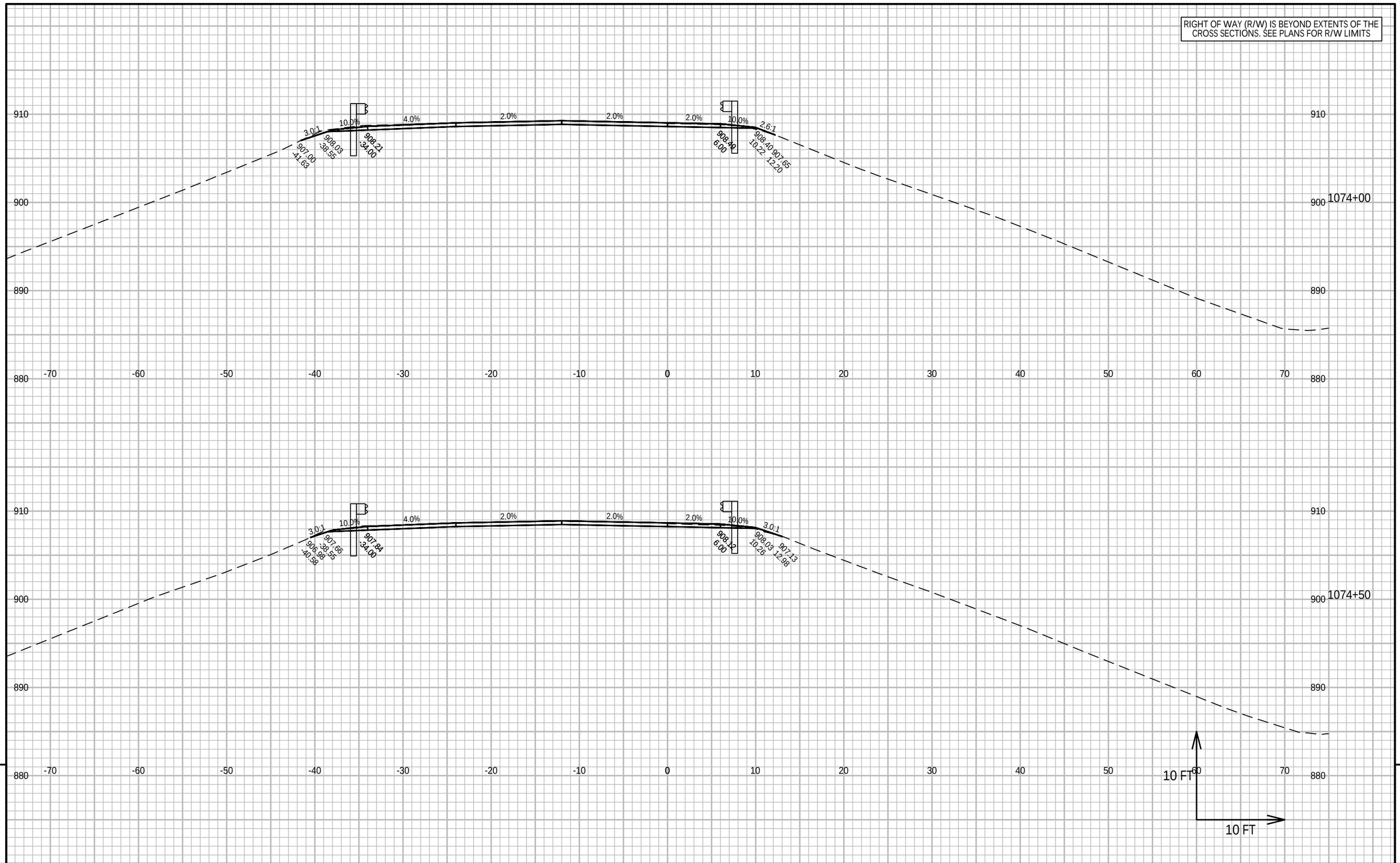
PLOT DATE : 6/27/2025 12:52 PM

PLOT BY : SHAWN DOLENS

PLOT NAME :

PLOT SCALE : 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

RIGHT OF WAY (R/W) IS BEYOND EXTENTS OF THE CROSS SECTIONS. SEE PLANS FOR R/W LIMITS



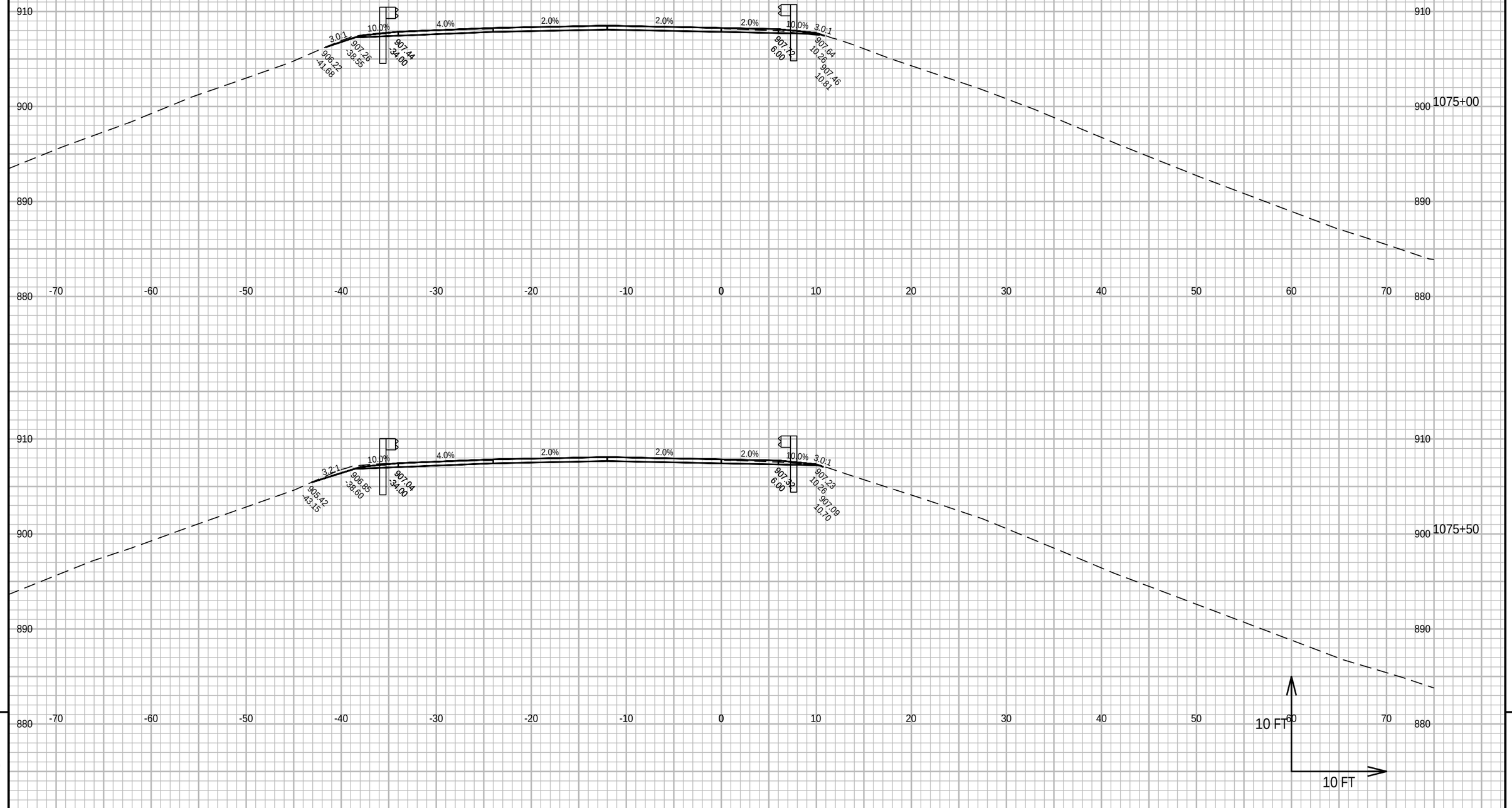
9 9

PROJECT NO: 1166-04-85	HWY: IH 39	COUNTY: MARQUETTE	CROSS SECTIONS: BEAMGUARD 1072+00 - 1088+00	SHEET 387	E

FILE NAME : G:\00\00093\00093777\CADD\SHEETSPLAN\090202-XS.DWG
LAYOUT NAME - 24

PLOT DATE : 6/27/2025 12:53 PM PLOT BY : SHAWN DOLENS PLOT NAME : **PLOT SCALE :** 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

RIGHT OF WAY (R/W) IS BEYOND EXTENTS OF THE CROSS SECTIONS. SEE PLANS FOR R/W LIMITS



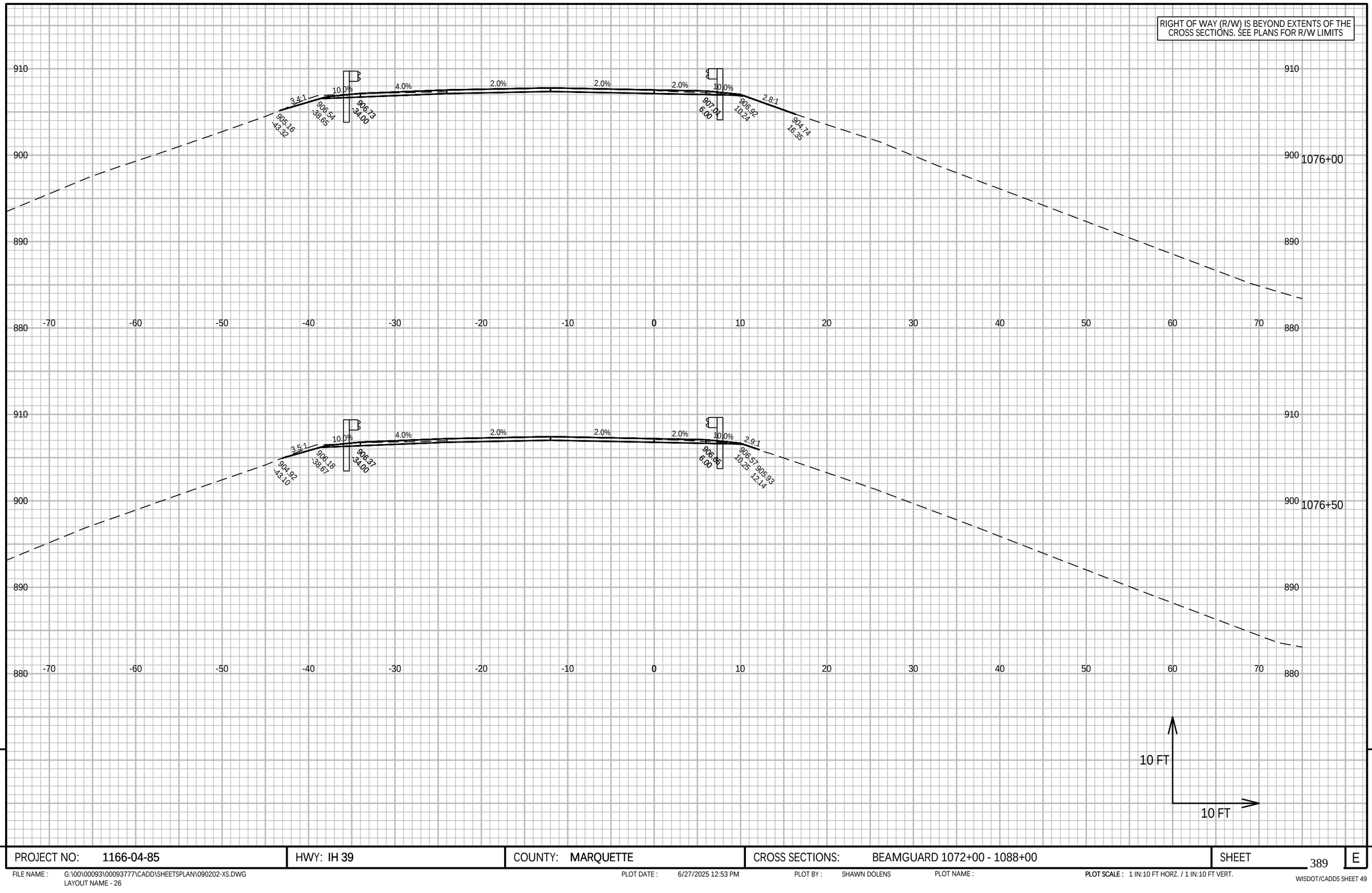
PROJECT NO: 1166-04-85	HWY: IH 39	COUNTY: MARQUETTE	CROSS SECTIONS: BEAMGUARD 1072+00 - 1088+00	SHEET 388	E

FILE NAME : G:\00\00093\00093777\CADD\SHEETSPLAN\090202-XS.DWG
LAYOUT NAME - 25

PLOT DATE : 6/27/2025 12:53 PM PLOT BY : SHAWN DOLENS PLOT NAME : PLOT SCALE : 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49

RIGHT OF WAY (R/W) IS BEYOND EXTENTS OF THE CROSS SECTIONS. SEE PLANS FOR R/W LIMITS



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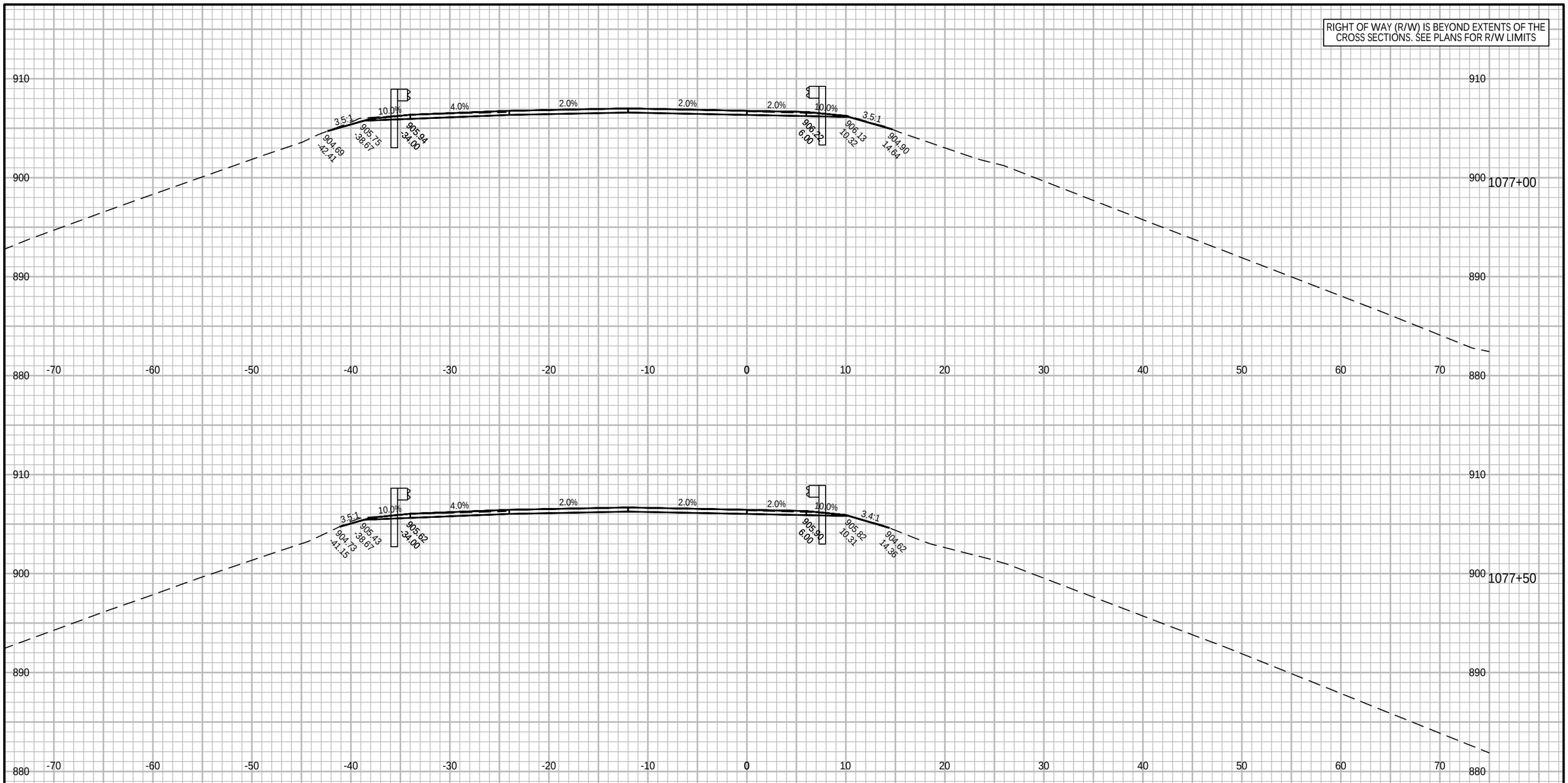
PROJECT NO: 1166-04-85	HWY: IH 39	COUNTY: MARQUETTE	CROSS SECTIONS: BEAMGUARD 1072+00 - 1088+00	SHEET 389	E

FILE NAME : G:\00\00093\00093777\CADD\SHEETSPLAN\090202-XS.DWG
LAYOUT NAME - 26

PLOT DATE : 6/27/2025 12:53 PM PLOT BY : SHAWN DOLENS PLOT NAME : PLOT SCALE : 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

RIGHT OF WAY (R/W) IS BEYOND EXTENTS OF THE CROSS SECTIONS. SEE PLANS FOR R/W LIMITS



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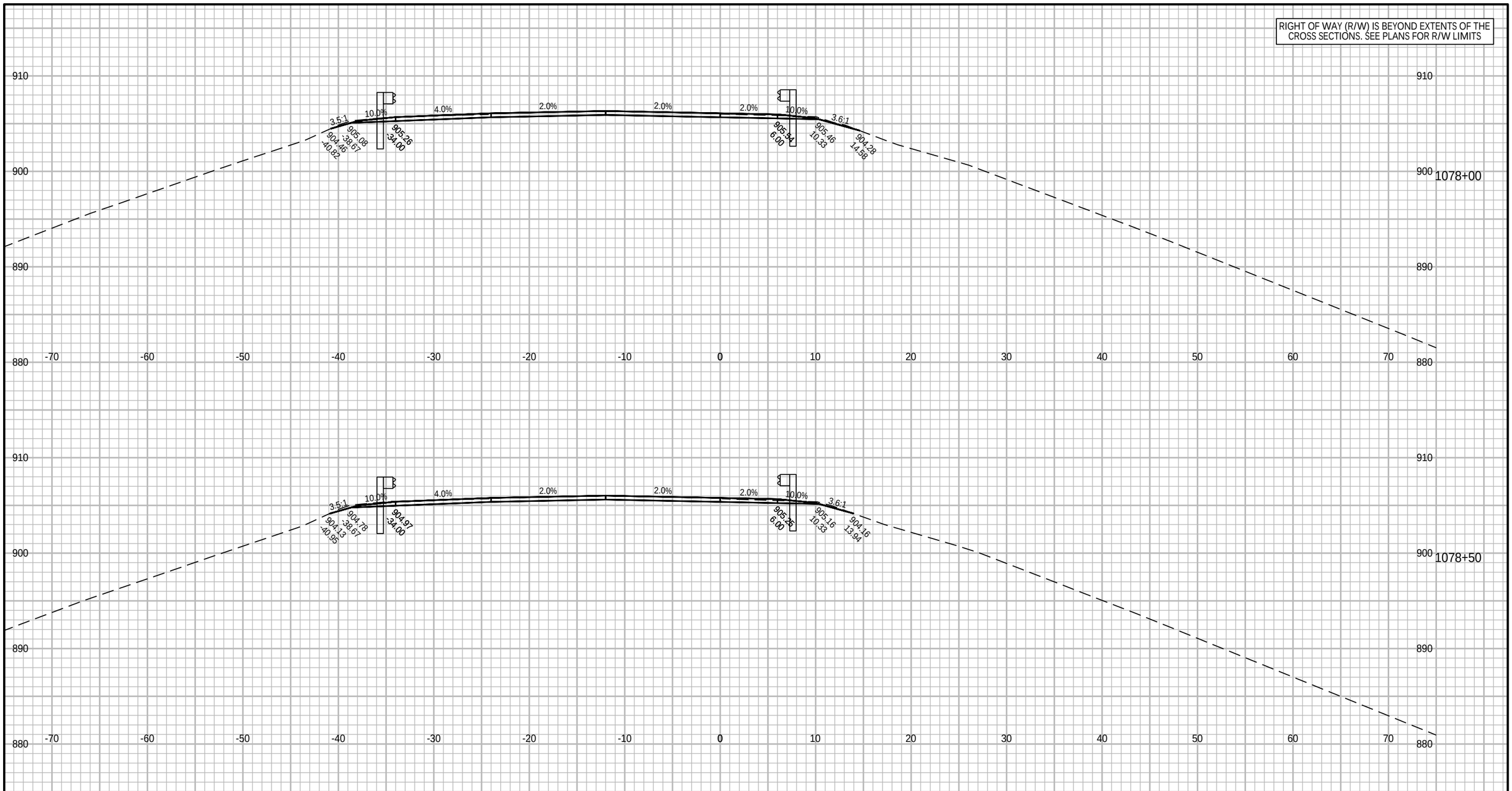
PROJECT NO: 1166-04-85	HWY: IH 39	COUNTY: MARQUETTE	CROSS SECTIONS: BEAMGUARD 1072+00 - 1088+00	SHEET 390	E

FILE NAME : G:\00\00093\00093777\CADD\SHEETSPLAN\090202-XS.DWG
LAYOUT NAME - 27

PLOT DATE : 6/27/2025 12:53 PM PLOT BY : SHAWN DOLENS PLOT NAME :

PLOT SCALE : 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

RIGHT OF WAY (R/W) IS BEYOND EXTENTS OF THE CROSS SECTIONS. SEE PLANS FOR R/W LIMITS



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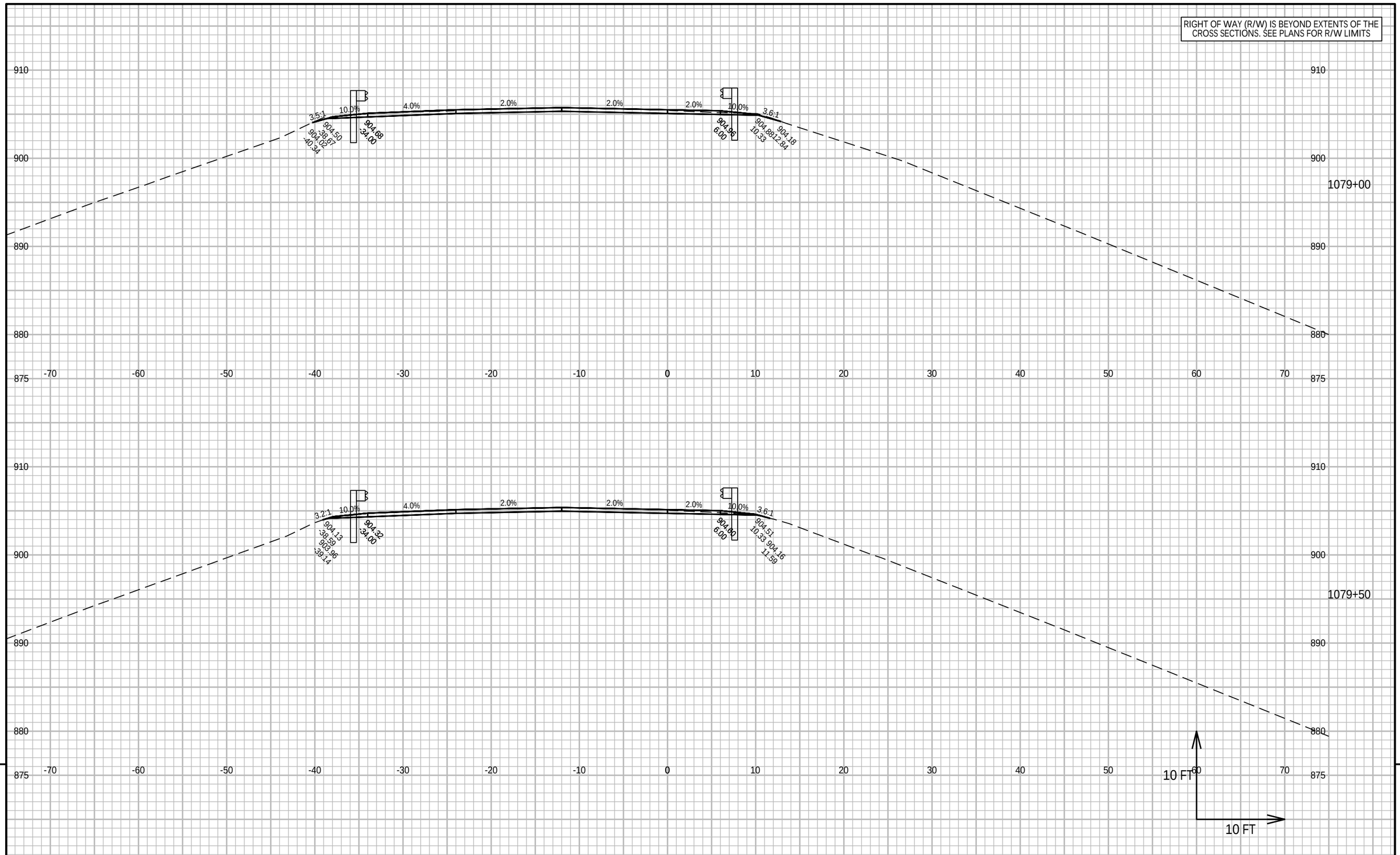
PROJECT NO: 1166-04-85	HWY: IH 39	COUNTY: MARQUETTE	CROSS SECTIONS: BEAMGUARD 1072+00 - 1088+00	SHEET 391	E

FILE NAME : G:\00\00093\00093777\CADD\SHEETSPLAN\090202-XS.DWG
LAYOUT NAME - 28

PLOT DATE : 6/27/2025 12:53 PM PLOT BY : SHAWN DOLENS PLOT NAME : PLOT SCALE : 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

RIGHT OF WAY (R/W) IS BEYOND EXTENTS OF THE CROSS SECTIONS. SEE PLANS FOR R/W LIMITS



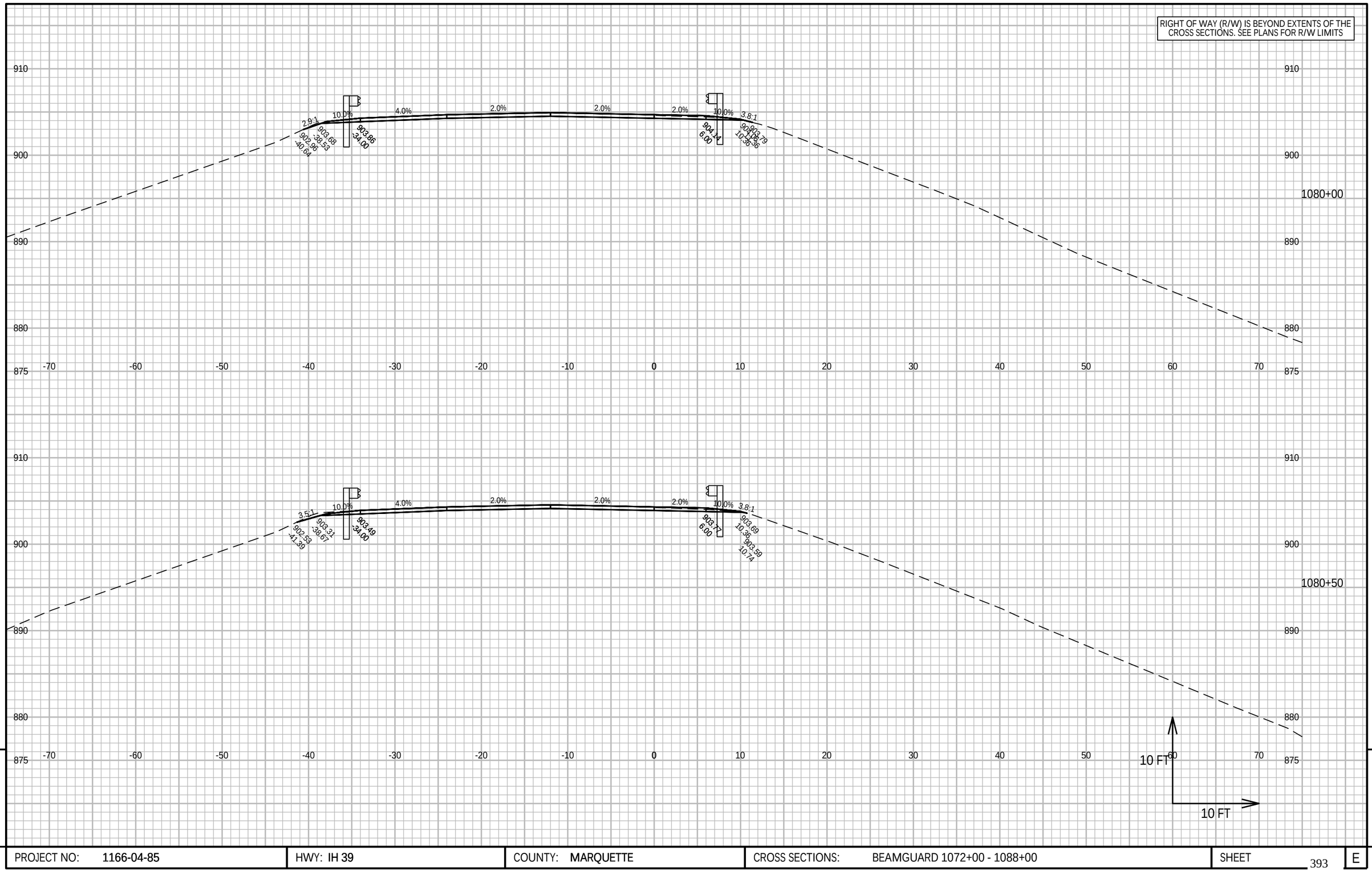
PROJECT NO: 1166-04-85	HWY: IH 39	COUNTY: MARQUETTE	CROSS SECTIONS: BEAMGUARD 1072+00 - 1088+00	SHEET 392	E

FILE NAME : G:\00\00093\00093777\CADD\SHEETSPLAN\090202-XS.DWG
LAYOUT NAME - 29

PLOT DATE : 6/27/2025 12:53 PM PLOT BY : SHAWN DOLENS PLOT NAME : PLOT SCALE : 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49

RIGHT OF WAY (R/W) IS BEYOND EXTENTS OF THE CROSS SECTIONS. SEE PLANS FOR R/W LIMITS



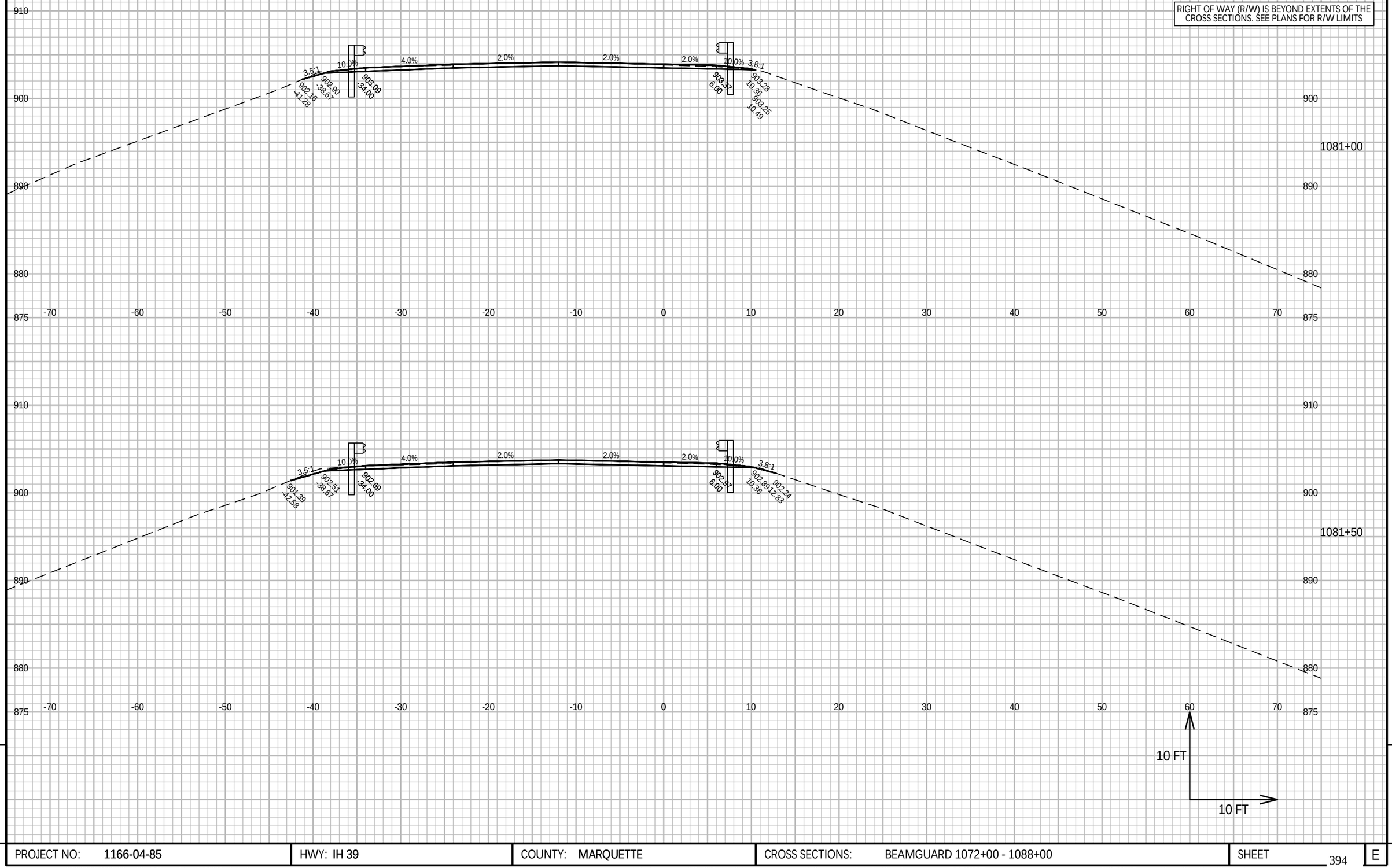
PROJECT NO: 1166-04-85	HWY: IH 39	COUNTY: MARQUETTE	CROSS SECTIONS: BEAMGUARD 1072+00 - 1088+00	SHEET 393	E

FILE NAME : G:\00\00093\00093777\CADD\SHEETSPLAN\090202-XS.DWG
LAYOUT NAME - 30

PLOT DATE : 6/27/2025 12:53 PM PLOT BY : SHAWN DOLENS PLOT NAME : PLOT SCALE : 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49

RIGHT OF WAY (R/W) IS BEYOND EXTENTS OF THE CROSS SECTIONS. SEE PLANS FOR R/W LIMITS



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PROJECT NO: 1166-04-85	HWY: IH 39	COUNTY: MARQUETTE	CROSS SECTIONS: BEAMGUARD 1072+00 - 1088+00	SHEET 394	E

FILE NAME : G:\00\00093\00093777\CADD\SHEETSPLAN\090202-XS.DWG
LAYOUT NAME - 31

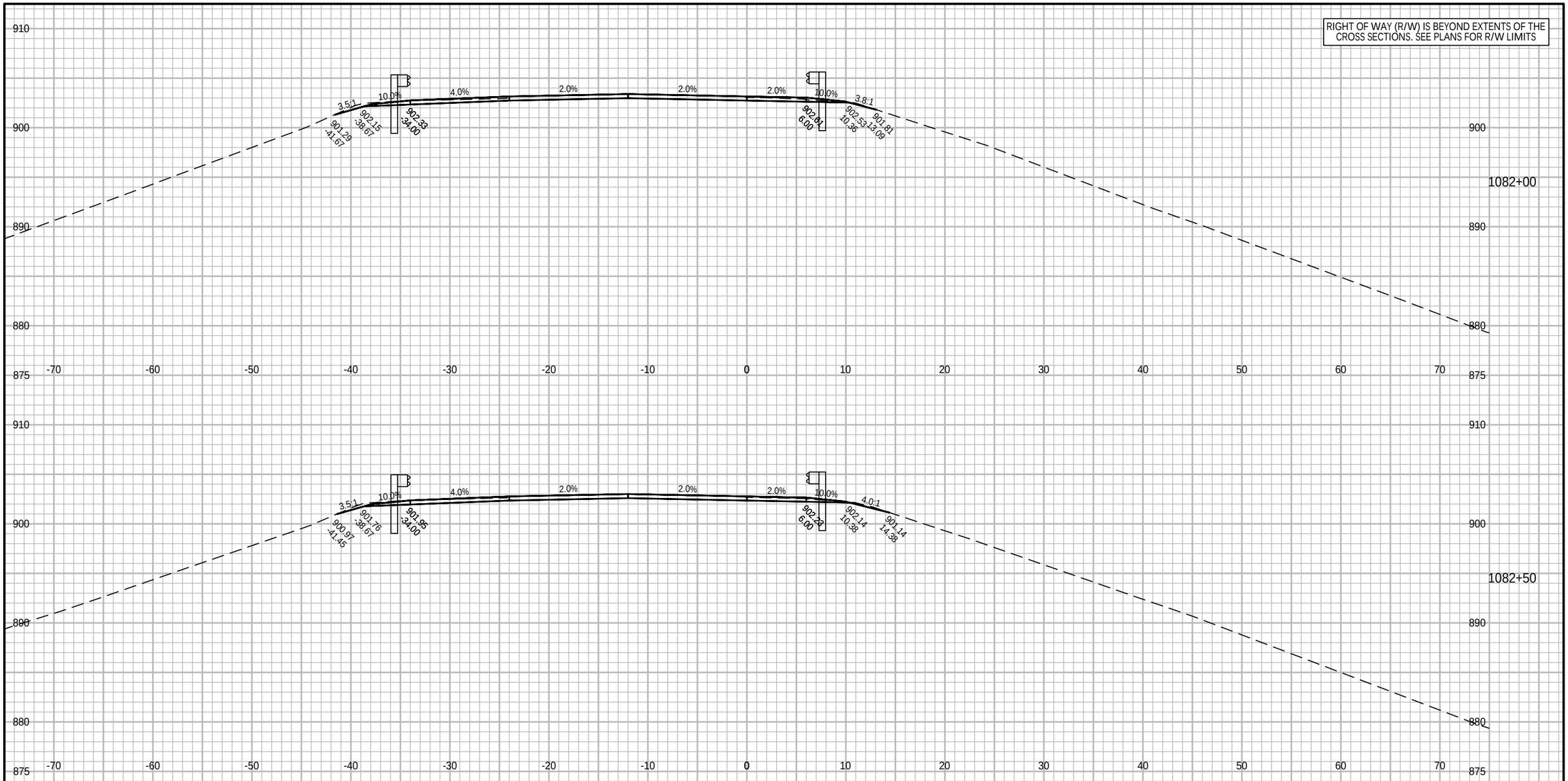
PLOT DATE : 6/27/2025 12:53 PM

PLOT BY : SHAWN DOLENS

PLOT NAME :

PLOT SCALE : 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

RIGHT OF WAY (R/W) IS BEYOND EXTENTS OF THE CROSS SECTIONS. SEE PLANS FOR R/W LIMITS



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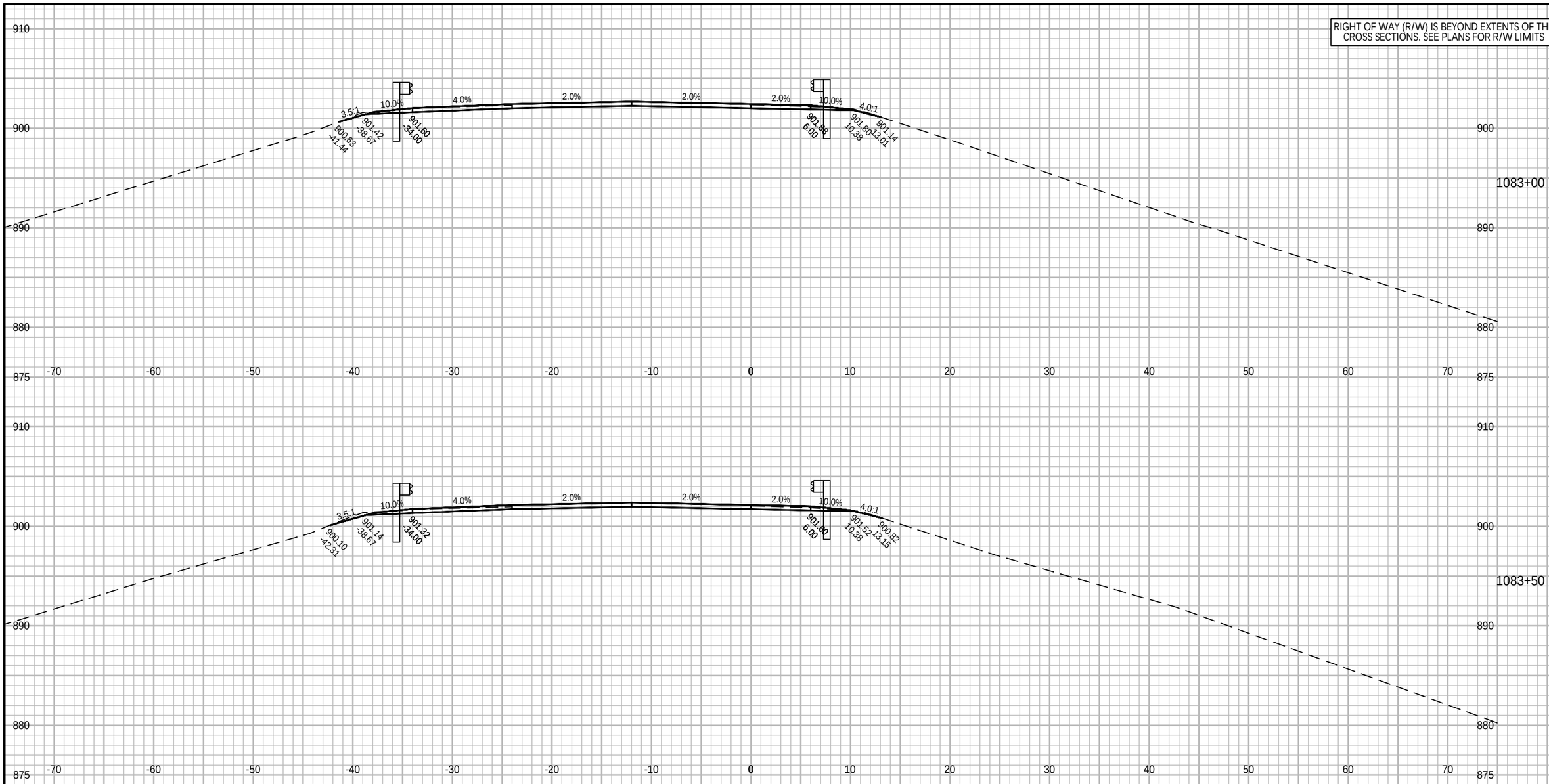
PROJECT NO: 1166-04-85	HWY: IH 39	COUNTY: MARQUETTE	CROSS SECTIONS: BEAMGUARD 1072+00 - 1088+00	SHEET 395	E

FILE NAME : G:\00\00093\00093777\CADD\SHEETSPLAN\090202-XS.DWG
LAYOUT NAME - 32

PLOT DATE : 6/27/2025 12:53 PM PLOT BY : SHAWN DOLENS PLOT NAME : PLOT SCALE : 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

RIGHT OF WAY (R/W) IS BEYOND EXTENTS OF THE CROSS SECTIONS. SEE PLANS FOR R/W LIMITS



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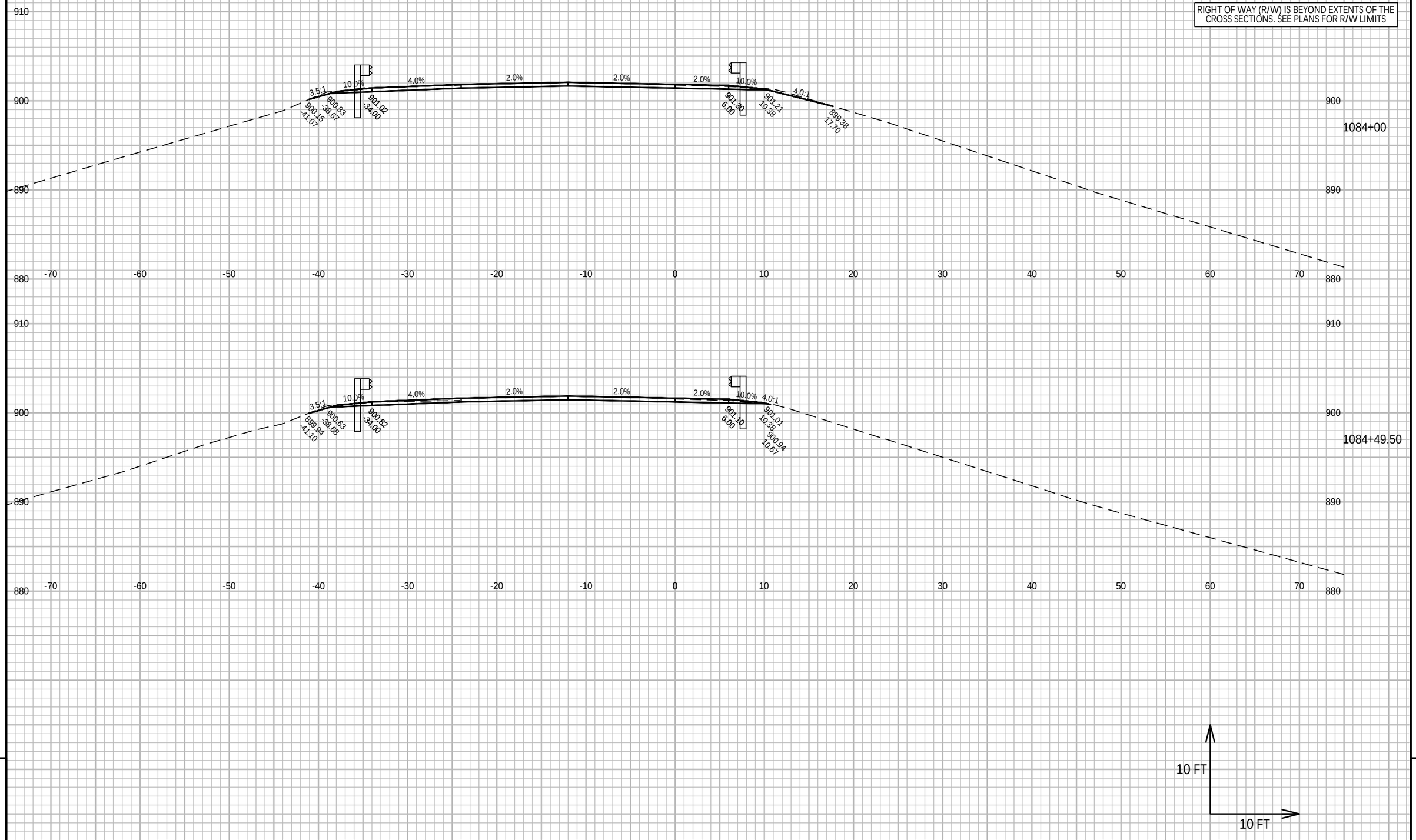
PROJECT NO: 1166-04-85	HWY: IH 39	COUNTY: MARQUETTE	CROSS SECTIONS: BEAMGUARD 1072+00 - 1088+00	SHEET 396	E

FILE NAME : G:\00\00093\00093777\CADD\SHEETSPLAN\090202-XS.DWG
LAYOUT NAME - 33

PLOT DATE : 6/27/2025 12:54 PM PLOT BY : SHAWN DOLENS PLOT NAME : PLOT SCALE : 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

RIGHT OF WAY (R/W) IS BEYOND EXTENTS OF THE CROSS SECTIONS. SEE PLANS FOR R/W LIMITS



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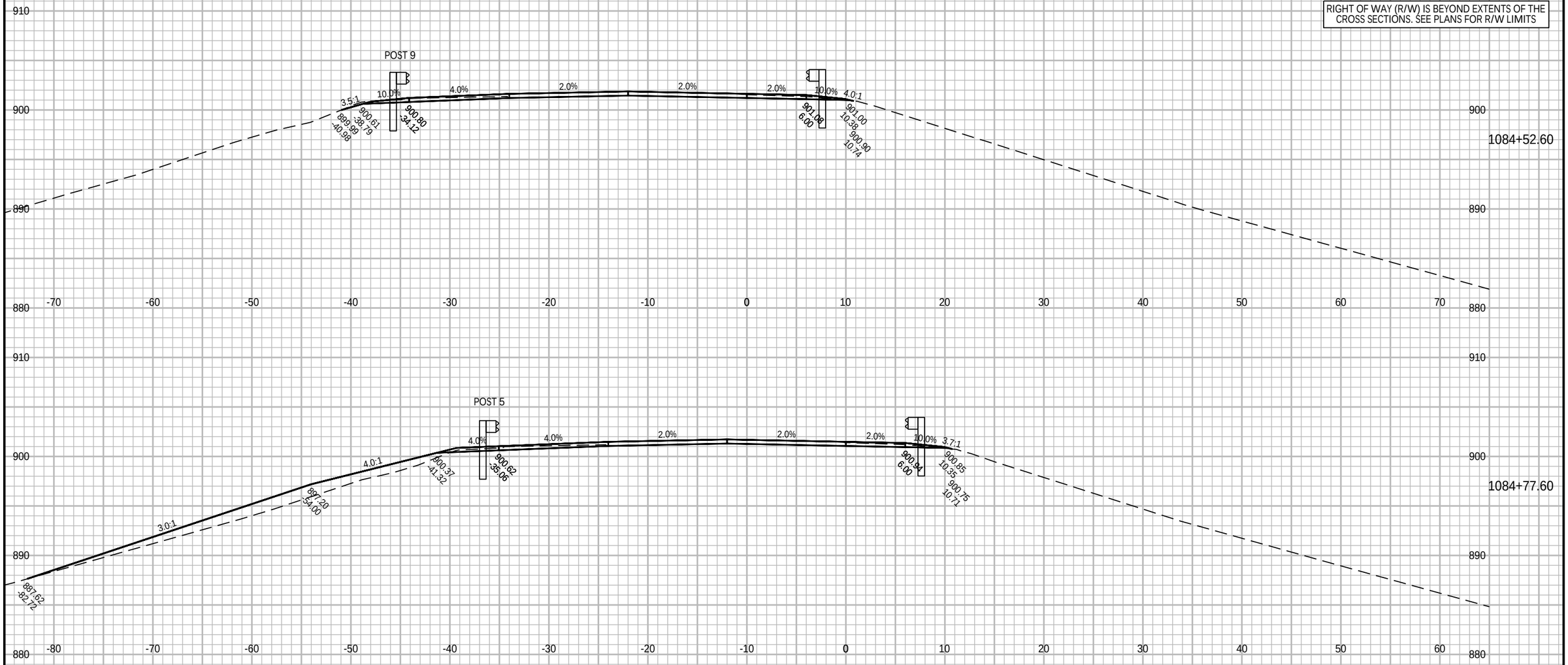
PROJECT NO: 1166-04-85	HWY: IH 39	COUNTY: MARQUETTE	CROSS SECTIONS: BEAMGUARD 1072+00 - 1088+00	SHEET 397	E

FILE NAME : G:\00\00093\00093777\CADD\SHEETSPLAN\090202-XS.DWG
LAYOUT NAME - 34

PLOT DATE : 6/27/2025 12:54 PM PLOT BY : SHAWN DOLENS PLOT NAME : **PLOT SCALE :** 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49

RIGHT OF WAY (R/W) IS BEYOND EXTENTS OF THE CROSS SECTIONS. SEE PLANS FOR R/W LIMITS



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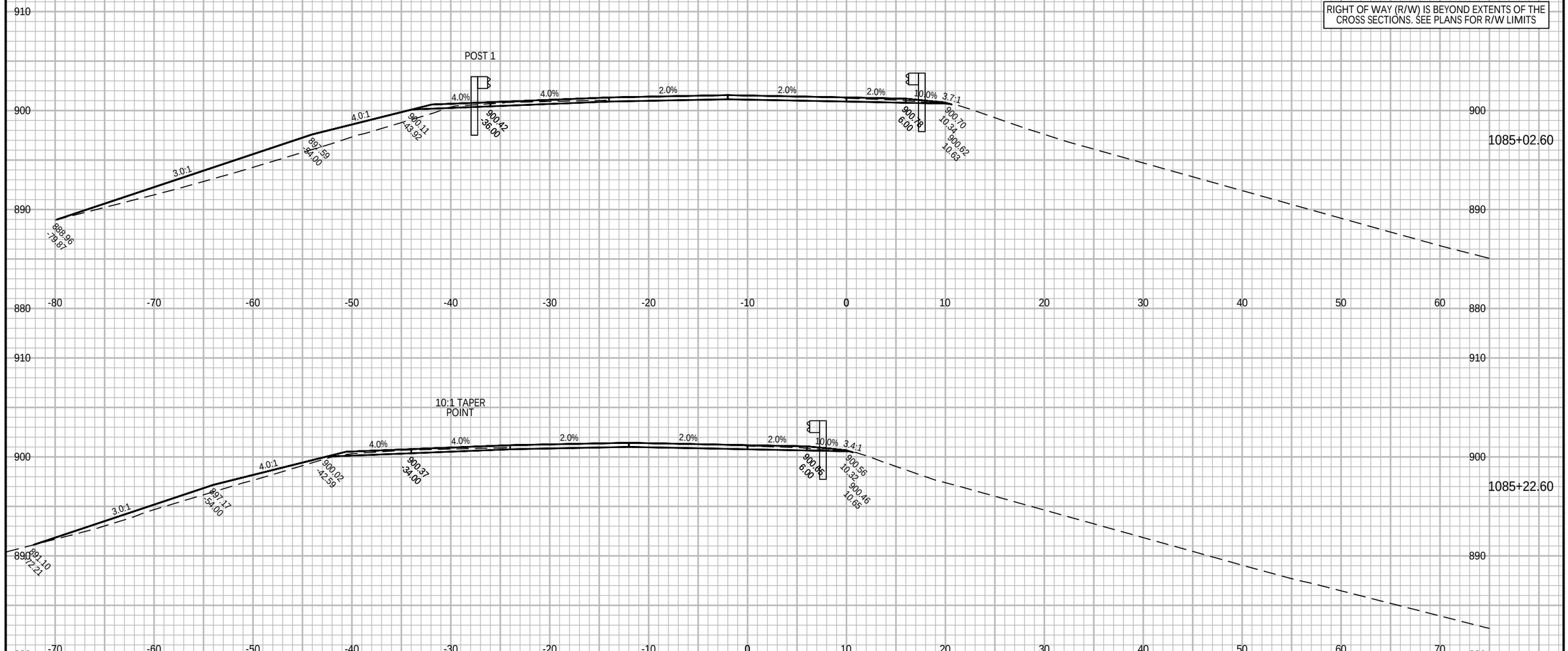
PROJECT NO: 1166-04-85	HWY: IH 39	COUNTY: MARQUETTE	CROSS SECTIONS: BEAMGUARD 1072+00 - 1088+00	SHEET 398	E

FILE NAME : G:\00\00093\00093777\CADD\SHEETSPLAN\090202-XS.DWG
LAYOUT NAME - 35

PLOT DATE : 6/27/2025 12:54 PM PLOT BY : SHAWN DOLENS PLOT NAME : **PLOT SCALE :** 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

RIGHT OF WAY (R/W) IS BEYOND EXTENTS OF THE CROSS SECTIONS. SEE PLANS FOR R/W LIMITS



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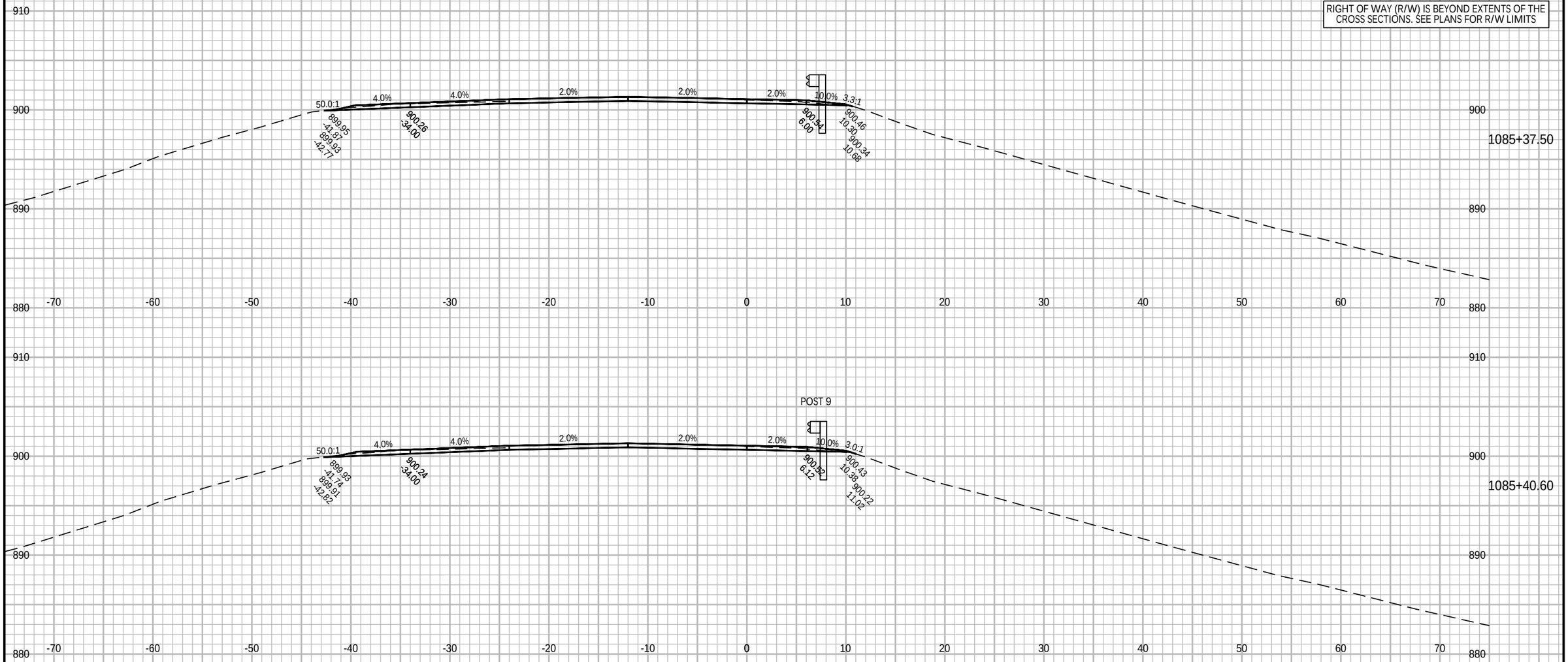
9

PROJECT NO: 1166-04-85	HWY: IH 39	COUNTY: MARQUETTE	CROSS SECTIONS: BEAMGUARD 1072+00 - 1088+00	SHEET 399	E

FILE NAME : G:\00\00093\00093777\CADD\SHEETSPLAN\090202-XS.DWG
LAYOUT NAME - 36

PLOT DATE : 6/27/2025 12:54 PM PLOT BY : SHAWN DOLENS PLOT NAME : **PLOT SCALE :** 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

RIGHT OF WAY (R/W) IS BEYOND EXTENTS OF THE CROSS SECTIONS. SEE PLANS FOR R/W LIMITS



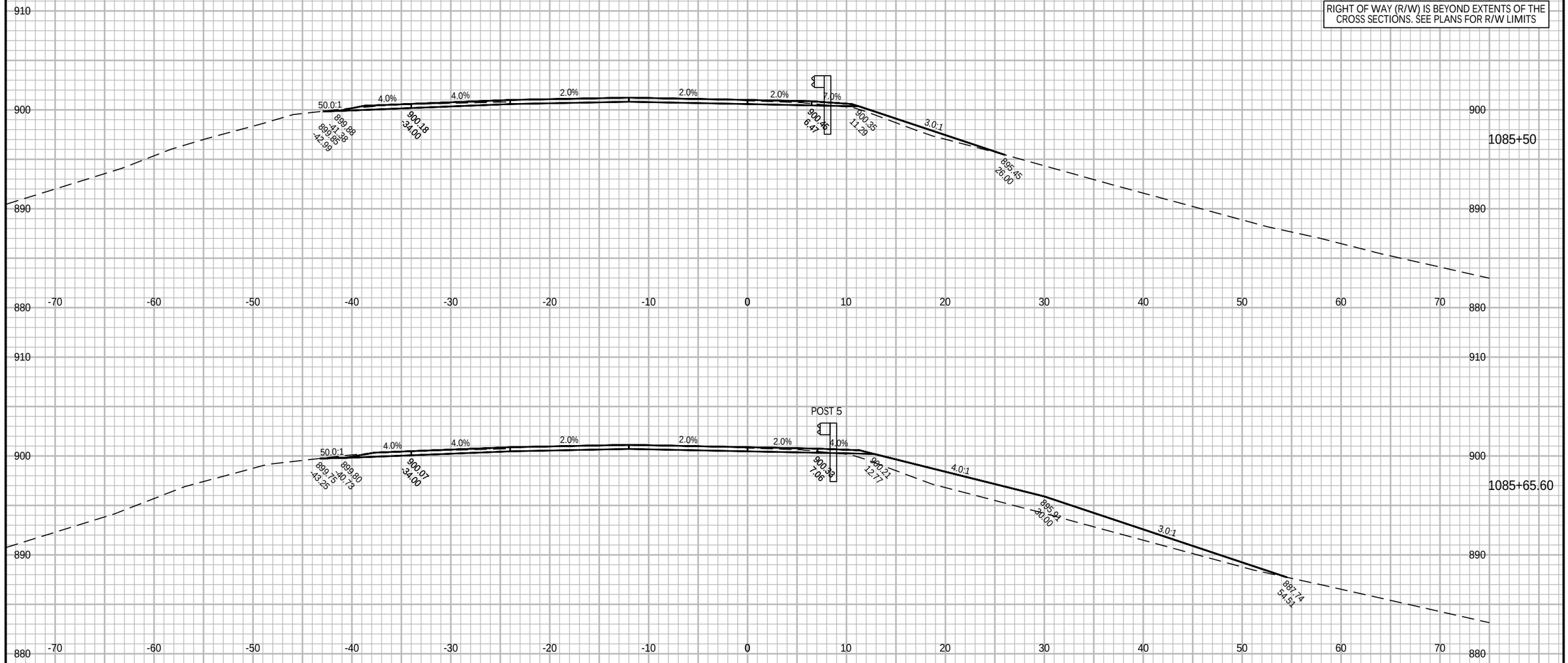
PROJECT NO: 1166-04-85	HWY: IH 39	COUNTY: MARQUETTE	CROSS SECTIONS: BEAMGUARD 1072+00 - 1088+00	SHEET 400	E

FILE NAME : G:\00\00093\00093777\CADD\SHEETSPLAN\090202-XS.DWG
LAYOUT NAME - 37

PLOT DATE : 6/27/2025 12:54 PM PLOT BY : SHAWN DOLENS PLOT NAME : **PLOT SCALE :** 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49

RIGHT OF WAY (R/W) IS BEYOND EXTENTS OF THE CROSS SECTIONS. SEE PLANS FOR R/W LIMITS



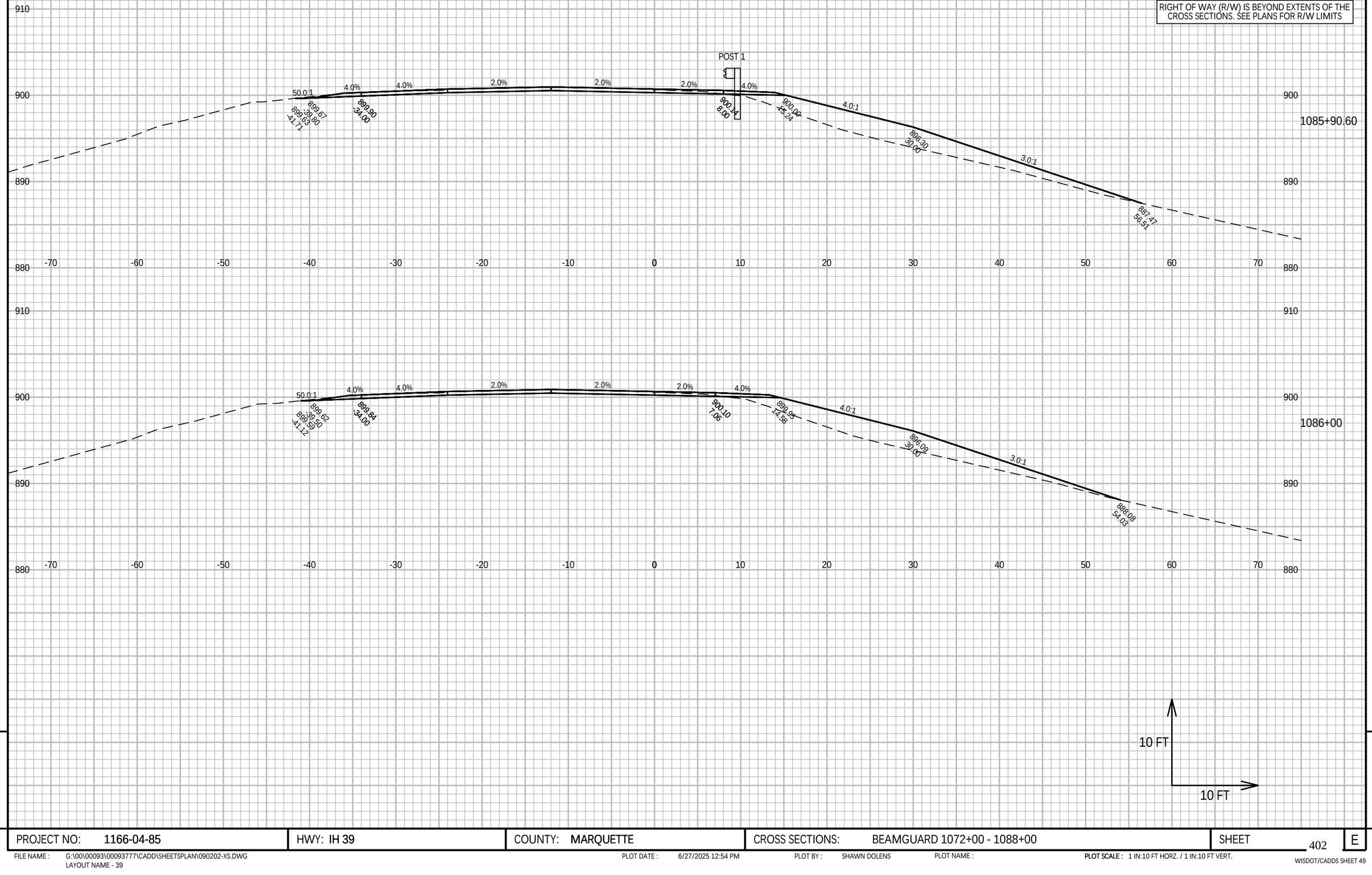
PROJECT NO: 1166-04-85	HWY: IH 39	COUNTY: MARQUETTE	CROSS SECTIONS: BEAMGUARD 1072+00 - 1088+00	SHEET 401	E

FILE NAME : G:\00\00093\00093777\CADD\SHEETSPLAN\090202-XS.DWG
LAYOUT NAME - 38

PLOT DATE : 6/27/2025 12:54 PM PLOT BY : SHAWN DOLENS PLOT NAME : **PLOT SCALE :** 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49

RIGHT OF WAY (R/W) IS BEYOND EXTENTS OF THE CROSS SECTIONS. SEE PLANS FOR R/W LIMITS



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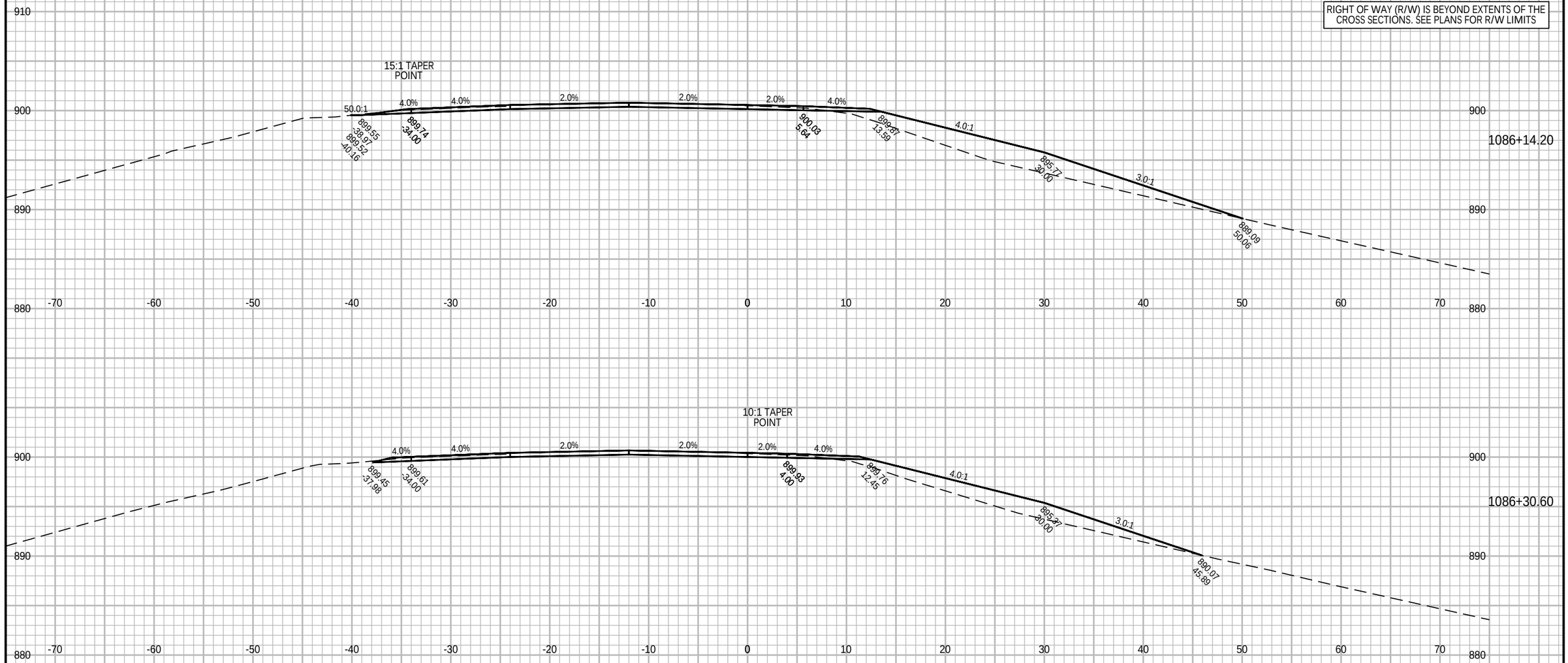
PROJECT NO: 1166-04-85	HWY: IH 39	COUNTY: MARQUETTE	CROSS SECTIONS: BEAMGUARD 1072+00 - 1088+00	SHEET 402	E

FILE NAME : G:\00\00093\00093777\CADD\SHEETSPLAN\090202-XS.DWG
LAYOUT NAME - 39

PLOT DATE : 6/27/2025 12:54 PM PLOT BY : SHAWN DOLENS PLOT NAME : **PLOT SCALE :** 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

RIGHT OF WAY (R/W) IS BEYOND EXTENTS OF THE CROSS SECTIONS. SEE PLANS FOR R/W LIMITS



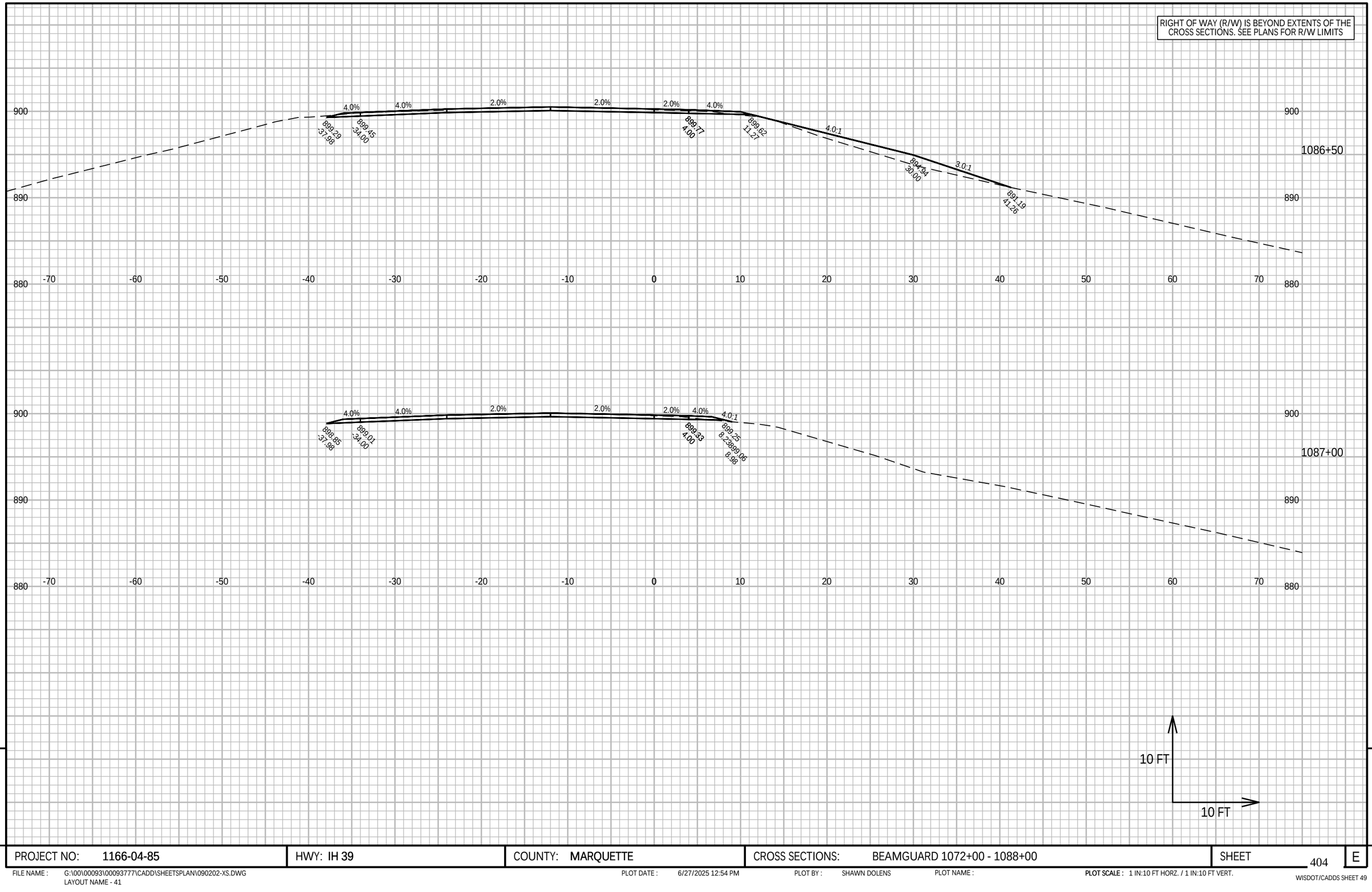
9 9

PROJECT NO: 1166-04-85	HWY: IH 39	COUNTY: MARQUETTE	CROSS SECTIONS: BEAMGUARD 1072+00 - 1088+00	SHEET 403	E

FILE NAME : G:\00\00093\00093777\CADD\SHEETSPLAN\090202-XS.DWG
LAYOUT NAME - 40

PLOT DATE : 6/27/2025 12:54 PM PLOT BY : SHAWN DOLENS PLOT NAME : **PLOT SCALE :** 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

RIGHT OF WAY (R/W) IS BEYOND EXTENTS OF THE CROSS SECTIONS. SEE PLANS FOR R/W LIMITS



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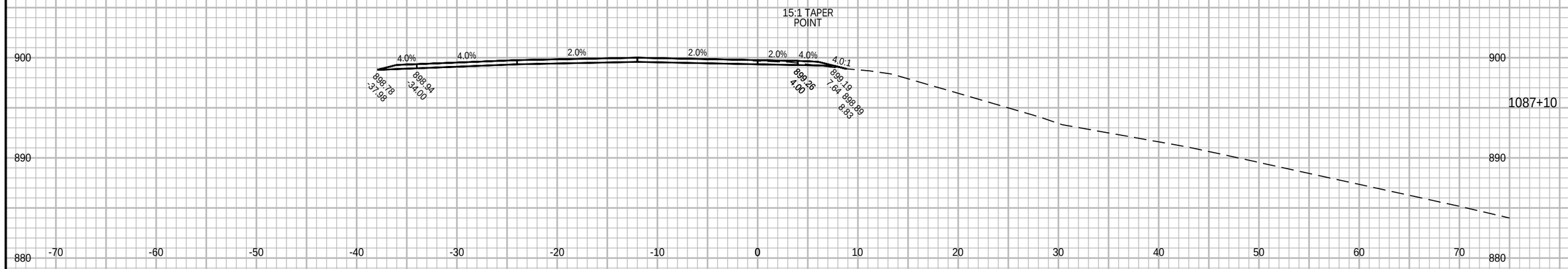
PROJECT NO: 1166-04-85	HWY: IH 39	COUNTY: MARQUETTE	CROSS SECTIONS: BEAMGUARD 1072+00 - 1088+00	SHEET 404	E

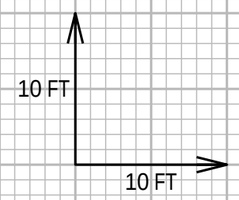
9

FILE NAME : G:\00\00093\00093777\CADD\SHEETSPLAN\090202-XS.DWG
LAYOUT NAME - 41

PLOT DATE : 6/27/2025 12:54 PM PLOT BY : SHAWN DOLENS PLOT NAME : **PLOT SCALE :** 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

RIGHT OF WAY (R/W) IS BEYOND EXTENTS OF THE CROSS SECTIONS. SEE PLANS FOR R/W LIMITS





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PROJECT NO: 1166-04-85	HWY: IH 39	COUNTY: MARQUETTE	CROSS SECTIONS: BEAMGUARD 1072+00 - 1088+00	SHEET 405	E

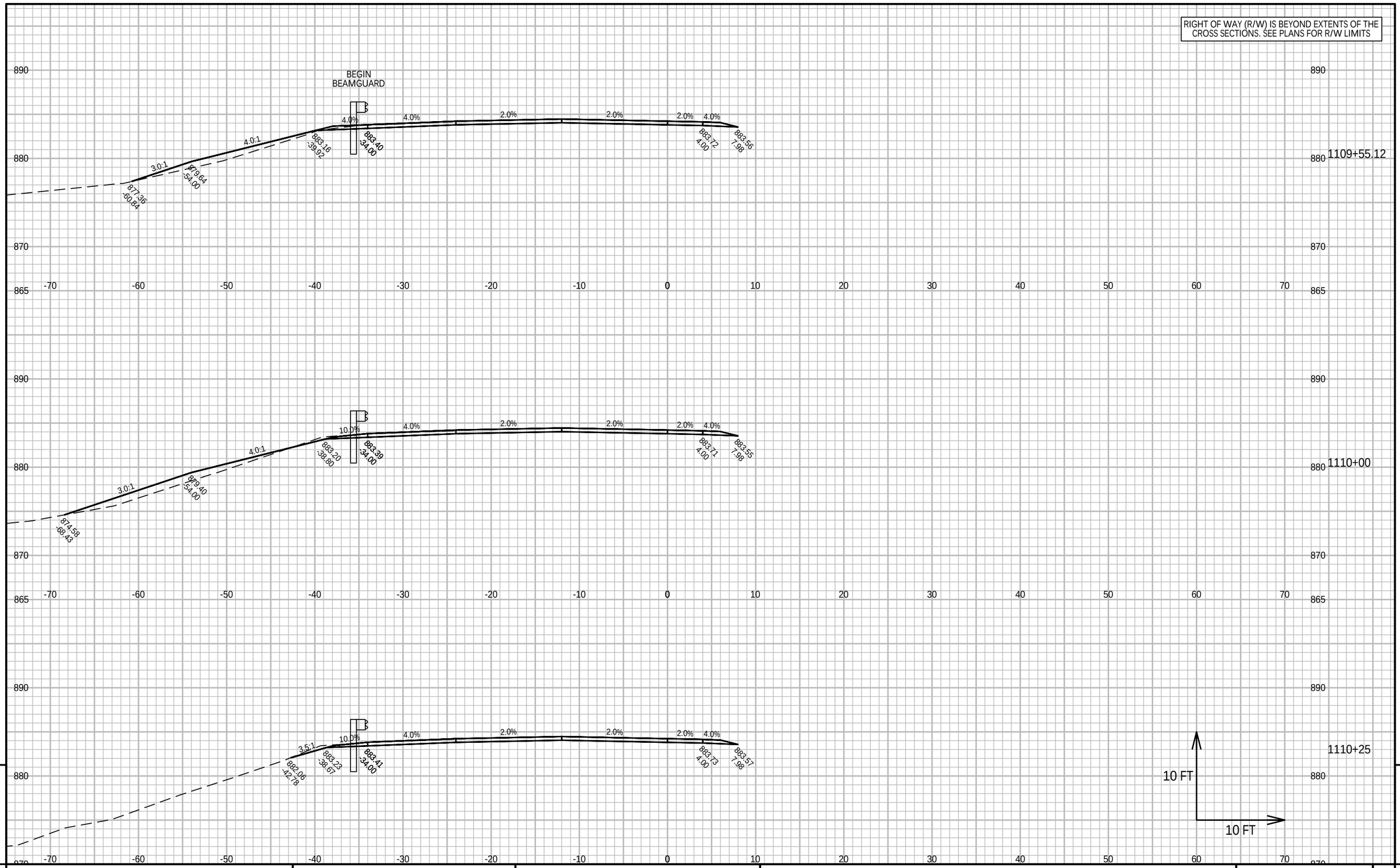
FILE NAME : G:\00\00093\00093777\CADD\SHEETSPLAN\090202-XS.DWG
LAYOUT NAME - 42

PLOT DATE : 6/27/2025 12:54 PM PLOT BY : SHAWN DOLENS PLOT NAME :

PLOT SCALE : 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49

RIGHT OF WAY (R/W) IS BEYOND EXTENTS OF THE CROSS SECTIONS. SEE PLANS FOR R/W LIMITS



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PROJECT NO: 1166-04-85	HWY: IH 39	COUNTY: MARQUETTE	CROSS SECTIONS: BEAMGUARD 1108+00 - 1118+00	SHEET 406	E

FILE NAME : G:\00\00093\00093777\CADD\SHEETSPLAN\090202-XS.DWG
LAYOUT NAME - 50

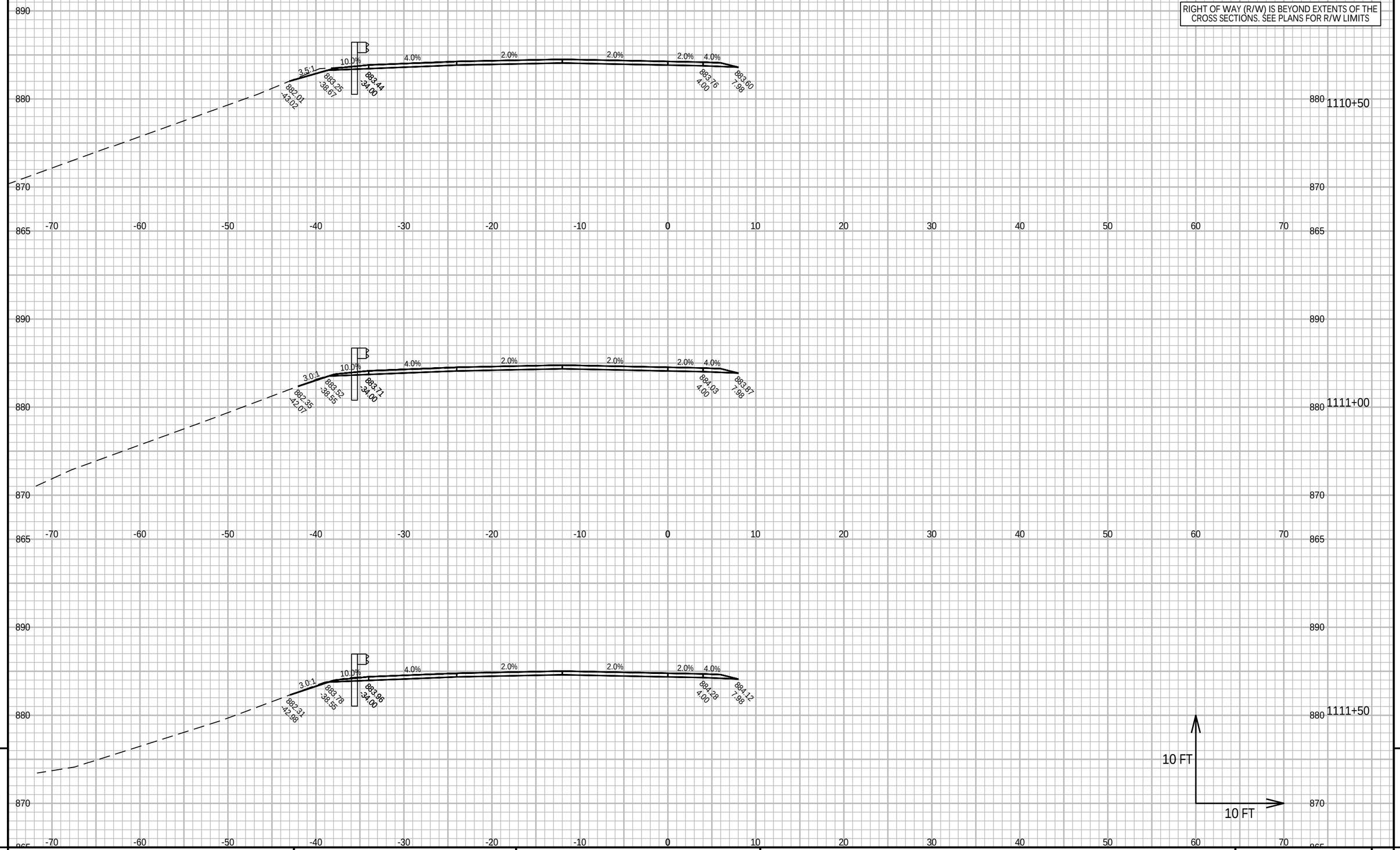
PLOT DATE : 6/27/2025 12:54 PM

PLOT BY : SHAWN DOLENS

PLOT NAME :

PLOT SCALE : 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

RIGHT OF WAY (R/W) IS BEYOND EXTENTS OF THE CROSS SECTIONS. SEE PLANS FOR R/W LIMITS



PROJECT NO: 1166-04-85	HWY: IH 39	COUNTY: MARQUETTE	CROSS SECTIONS: BEAMGUARD 1108+00 - 1118+00	SHEET 407	E

FILE NAME : G:\00\00093\00093777\CADD\SHEETSPLAN\090202-XS.DWG
LAYOUT NAME - 51

PLOT DATE : 6/27/2025 12:55 PM

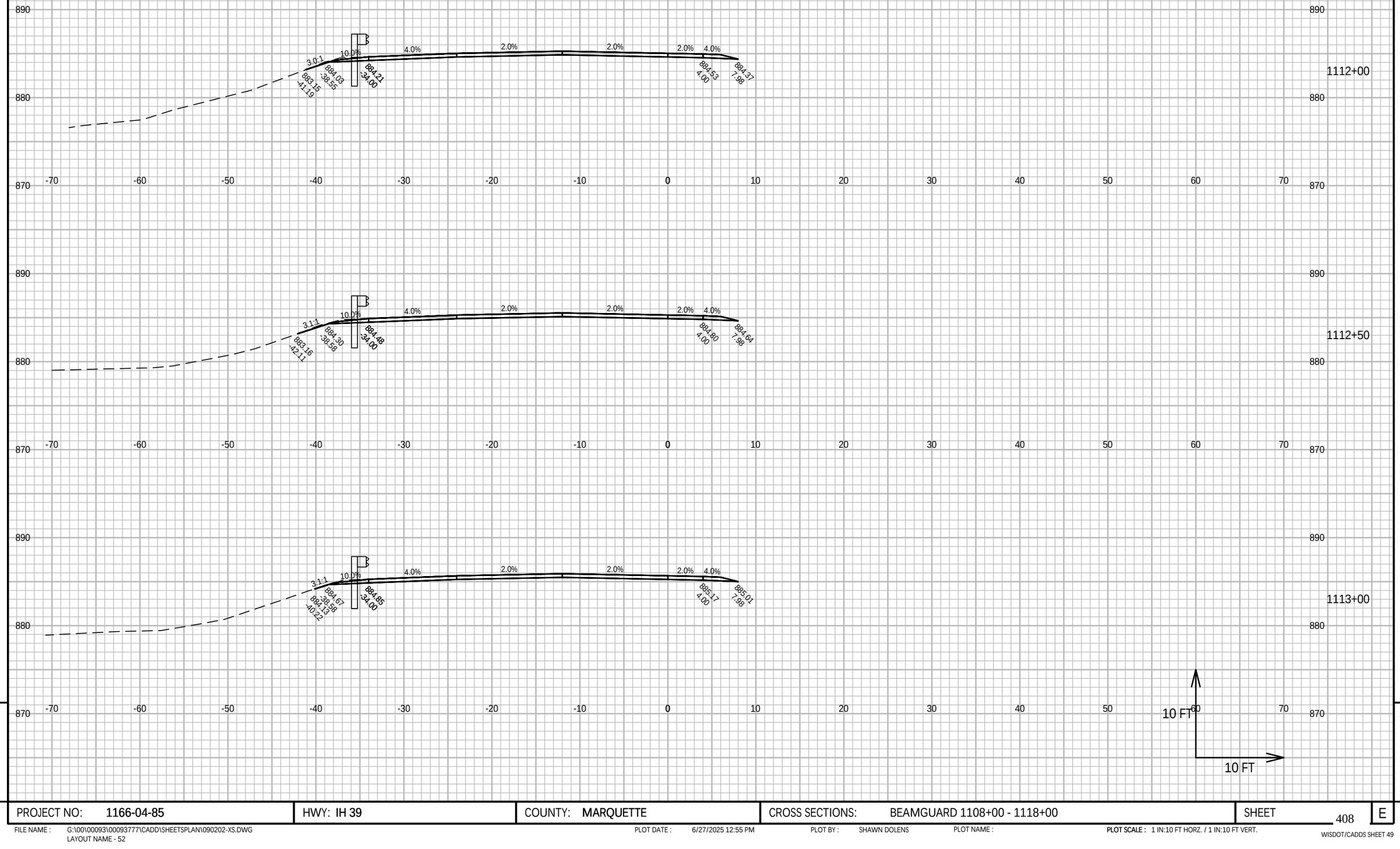
PLOT BY : SHAWN DOLENS

PLOT NAME :

PLOT SCALE : 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49

RIGHT OF WAY (R/W) IS BEYOND EXTENTS OF THE CROSS SECTIONS. SEE PLANS FOR R/W LIMITS



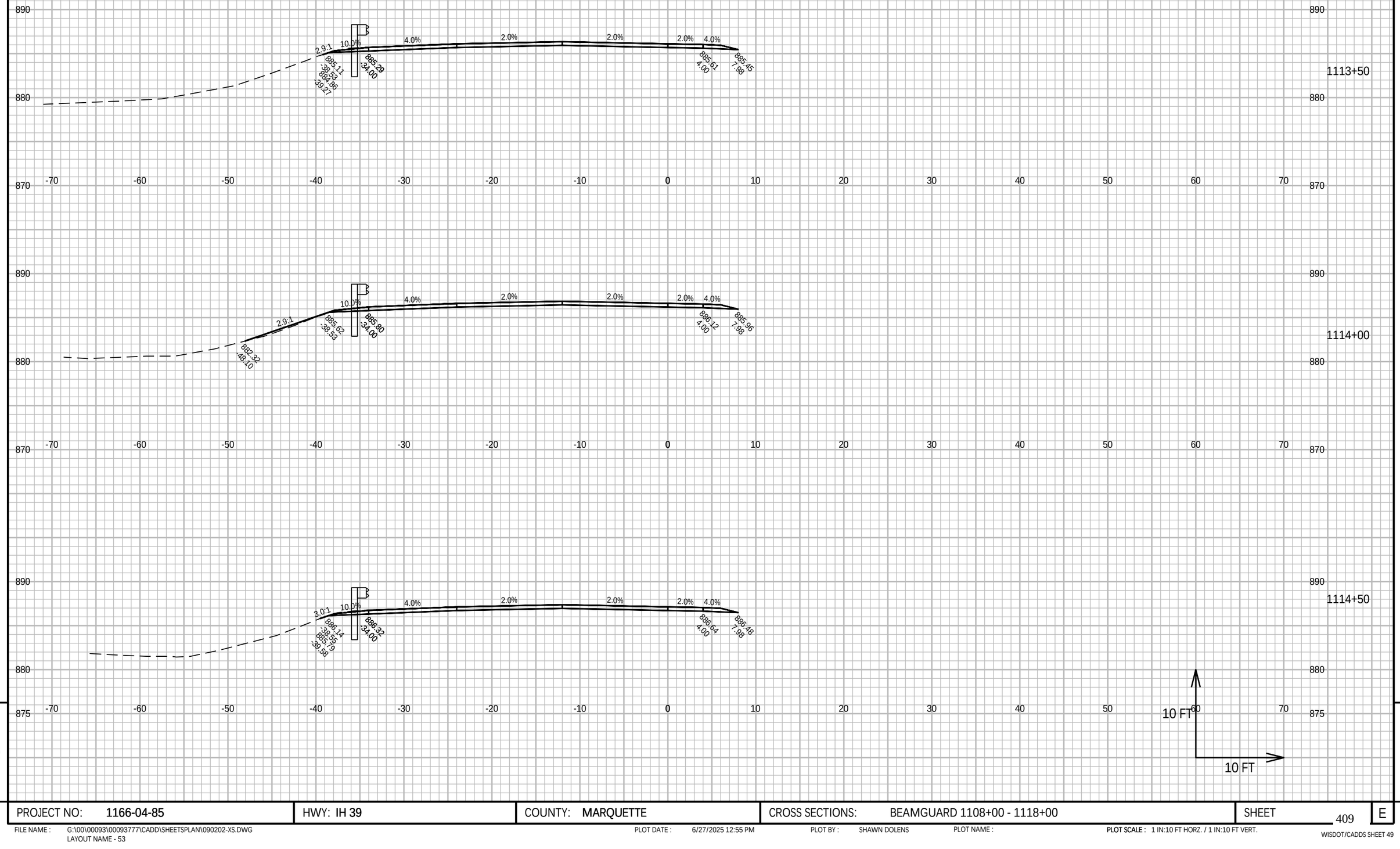
PROJECT NO: 1166-04-85	HWY: IH 39	COUNTY: MARQUETTE	CROSS SECTIONS: BEAMGUARD 1108+00 - 1118+00	SHEET 408	E

FILE NAME : G:\00\00093\00093777\CADD\SHEETSPLAN\090202-XS.DWG
LAYOUT NAME - 52

PLOT DATE : 6/27/2025 12:55 PM PLOT BY : SHAWN DOLENS PLOT NAME : PLOT SCALE : 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49

RIGHT OF WAY (R/W) IS BEYOND EXTENTS OF THE CROSS SECTIONS. SEE PLANS FOR R/W LIMITS

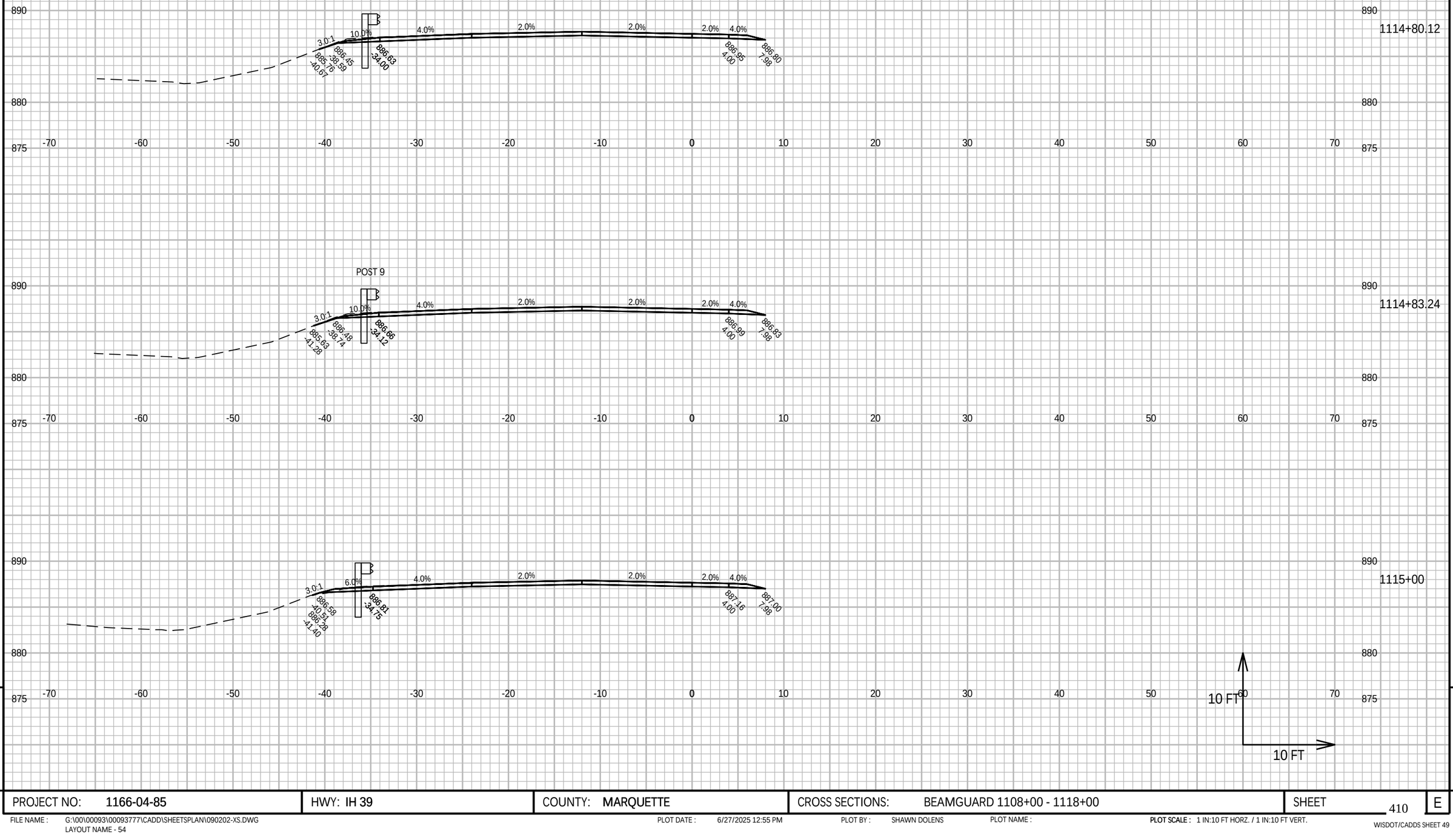


PROJECT NO: 1166-04-85	HWY: IH 39	COUNTY: MARQUETTE	CROSS SECTIONS: BEAMGUARD 1108+00 - 1118+00	SHEET 409	E

FILE NAME : G:\00\00093\00093777\CADD\SHEETSPLAN\090202-XS.DWG
LAYOUT NAME - 53

PLOT DATE : 6/27/2025 12:55 PM PLOT BY : SHAWN DOLENS PLOT NAME : PLOT SCALE : 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

RIGHT OF WAY (R/W) IS BEYOND EXTENTS OF THE CROSS SECTIONS. SEE PLANS FOR R/W LIMITS



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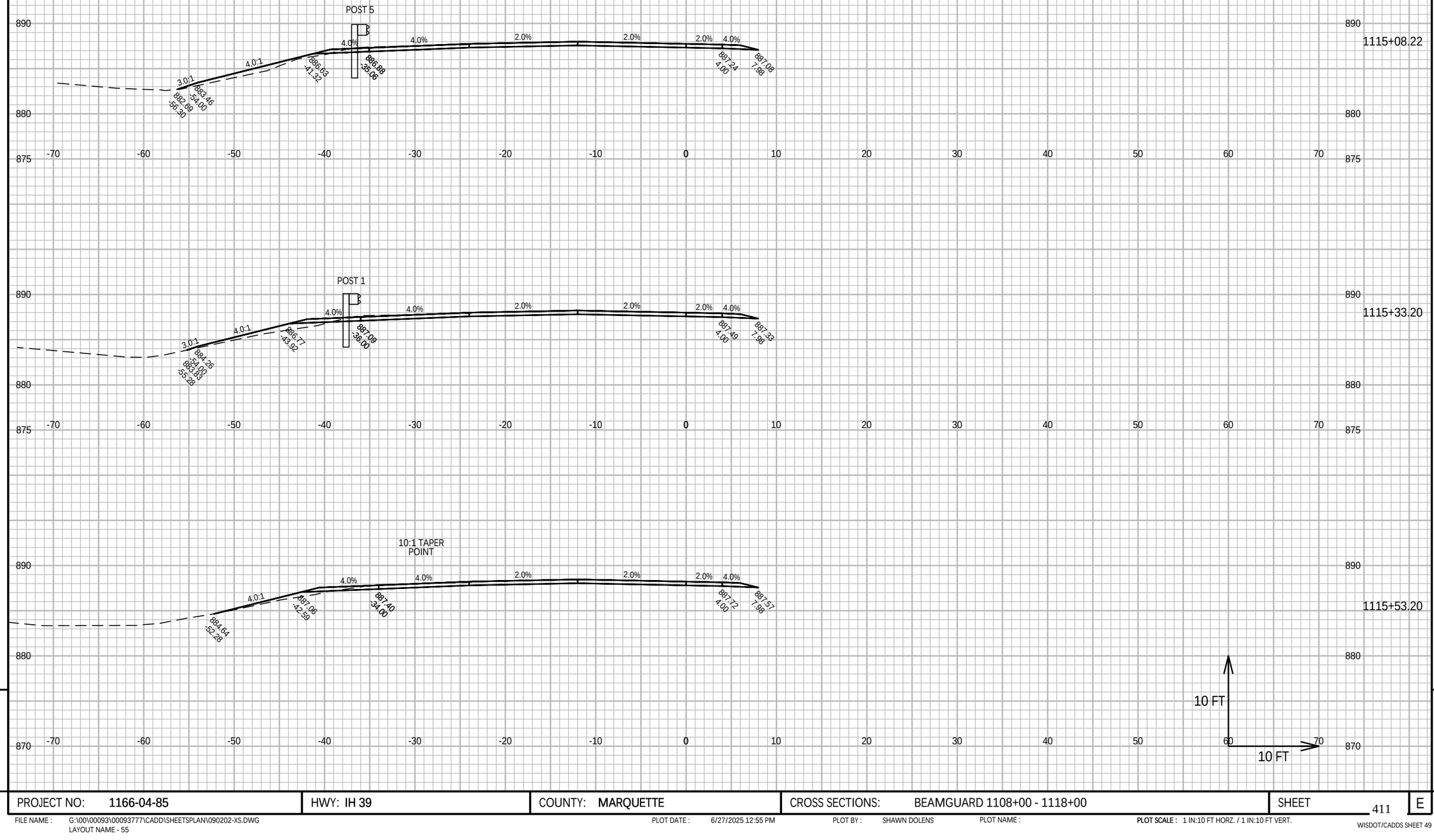
PROJECT NO: 1166-04-85	HWY: IH 39	COUNTY: MARQUETTE	CROSS SECTIONS: BEAMGUARD 1108+00 - 1118+00	SHEET 410	E

FILE NAME : G:\00\00093\00093777\CADD\SHEETSPLAN\090202-XS.DWG
LAYOUT NAME - 54

PLOT DATE : 6/27/2025 12:55 PM PLOT BY : SHAWN DOLENS PLOT NAME : **PLOT SCALE :** 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49

RIGHT OF WAY (R/W) IS BEYOND EXTENTS OF THE CROSS SECTIONS. SEE PLANS FOR R/W LIMITS



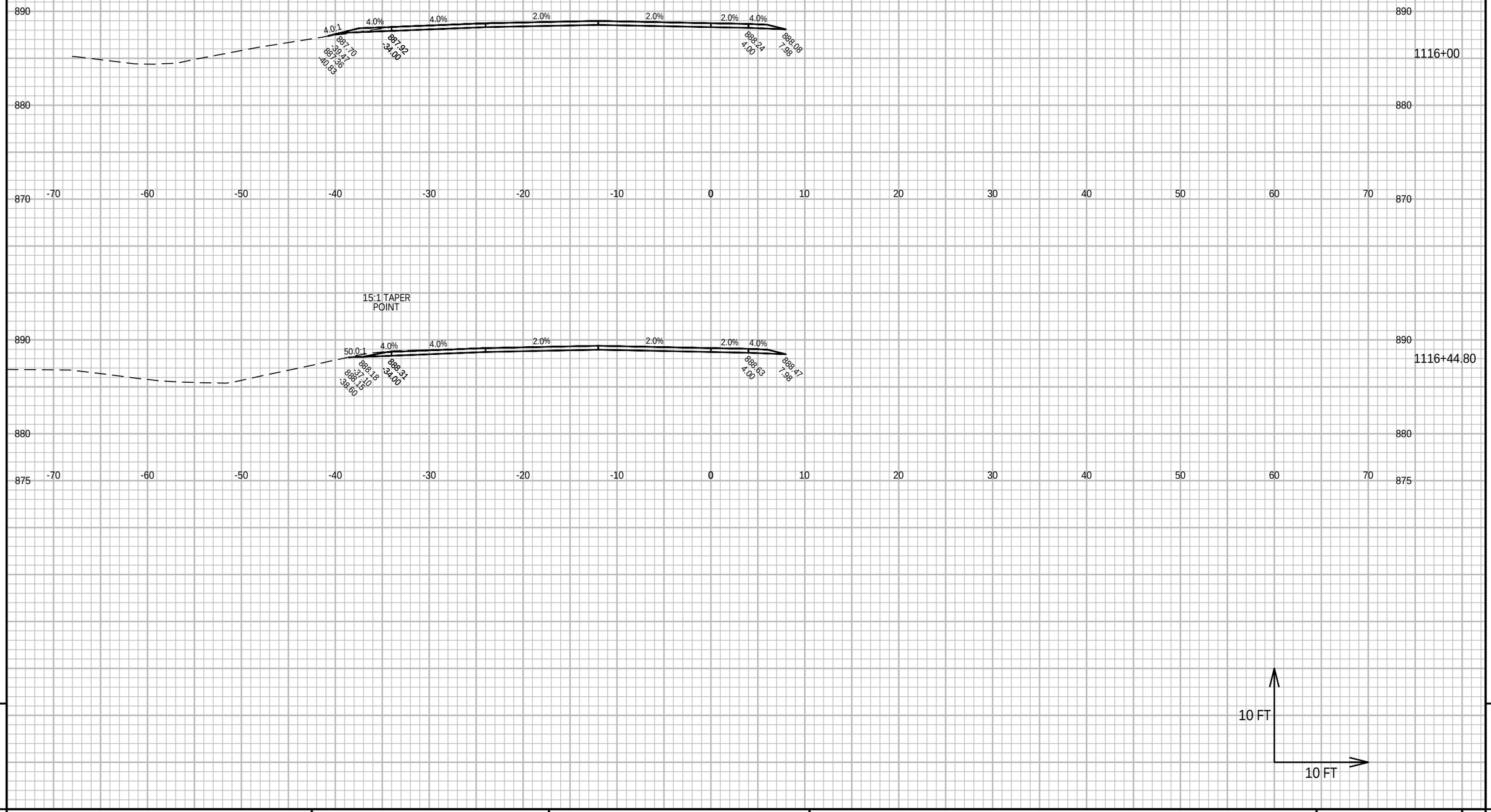
PROJECT NO: 1166-04-85	HWY: IH 39	COUNTY: MARQUETTE	CROSS SECTIONS: BEAMGUARD 1108+00 - 1118+00	SHEET 411	E

FILE NAME : G:\00\00093\00093777\CADD\SHEETSPLAN\090202-XS.DWG
LAYOUT NAME - 55

PLOT DATE : 6/27/2025 12:55 PM PLOT BY : SHAWN DOLENS PLOT NAME : **PLOT SCALE :** 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49

RIGHT OF WAY (R/W) IS BEYOND EXTENTS OF THE CROSS SECTIONS. SEE PLANS FOR R/W LIMITS



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PROJECT NO: 1166-04-85	HWY: IH 39	COUNTY: MARQUETTE	CROSS SECTIONS: BEAMGUARD 1108+00 - 1118+00	SHEET 412	E

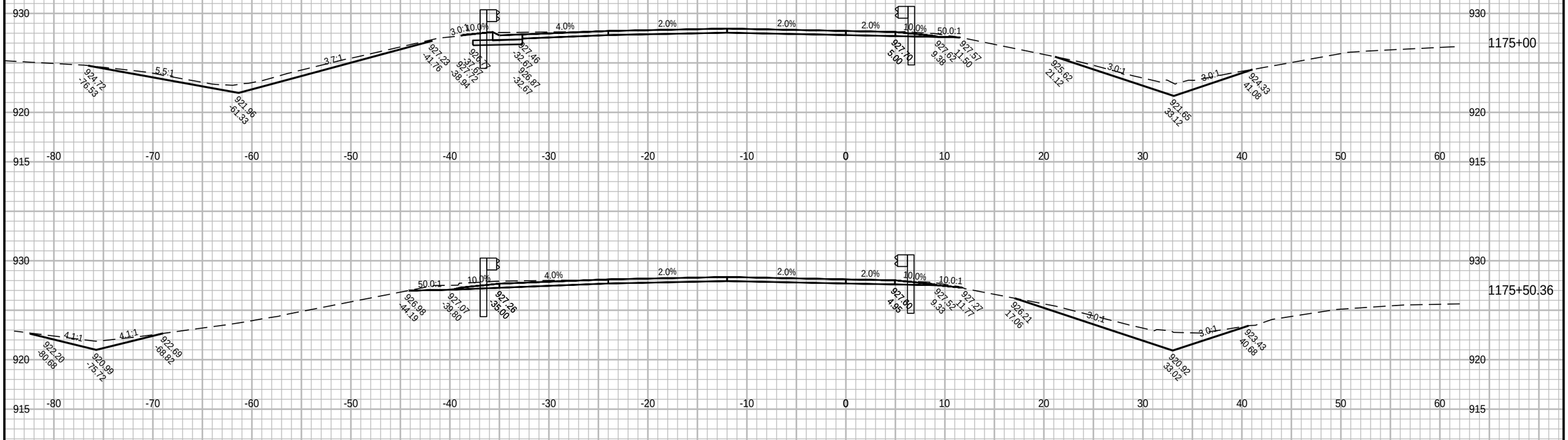
FILE NAME : G:\00\00093\00093777\CADD\SHEETSPLAN\090202-XS.DWG
LAYOUT NAME - 56

PLOT DATE : 6/27/2025 12:55 PM PLOT BY : SHAWN DOLENS PLOT NAME : **PLOT SCALE :** 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49

STRUCTURE B-39-0033

RIGHT OF WAY (R/W) IS BEYOND EXTENTS OF THE CROSS SECTIONS. SEE PLANS FOR R/W LIMITS



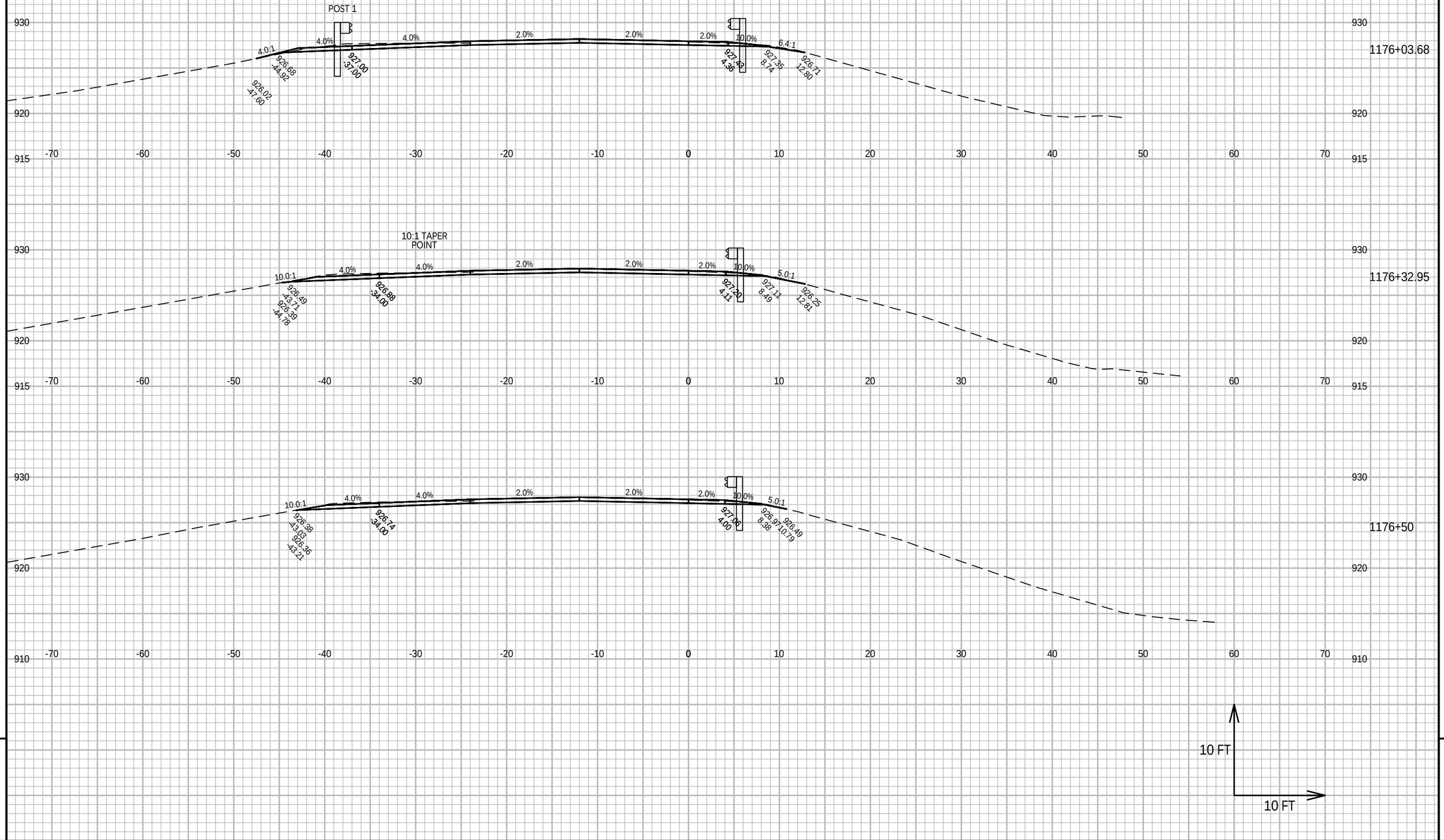
PROJECT NO: 1166-04-85	HWY: IH 39	COUNTY: MARQUETTE	CROSS SECTIONS: BEAMGUARD 1174+00 - 1184+00	SHEET 413	E

FILE NAME : G:\00\00093\00093777\CADD\SHEETSPLAN\090202-XS.DWG
LAYOUT NAME - 60

PLOT DATE : 6/27/2025 12:55 PM PLOT BY : SHAWN DOLENS PLOT NAME : PLOT SCALE : 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49

RIGHT OF WAY (R/W) IS BEYOND EXTENTS OF THE CROSS SECTIONS. SEE PLANS FOR R/W LIMITS



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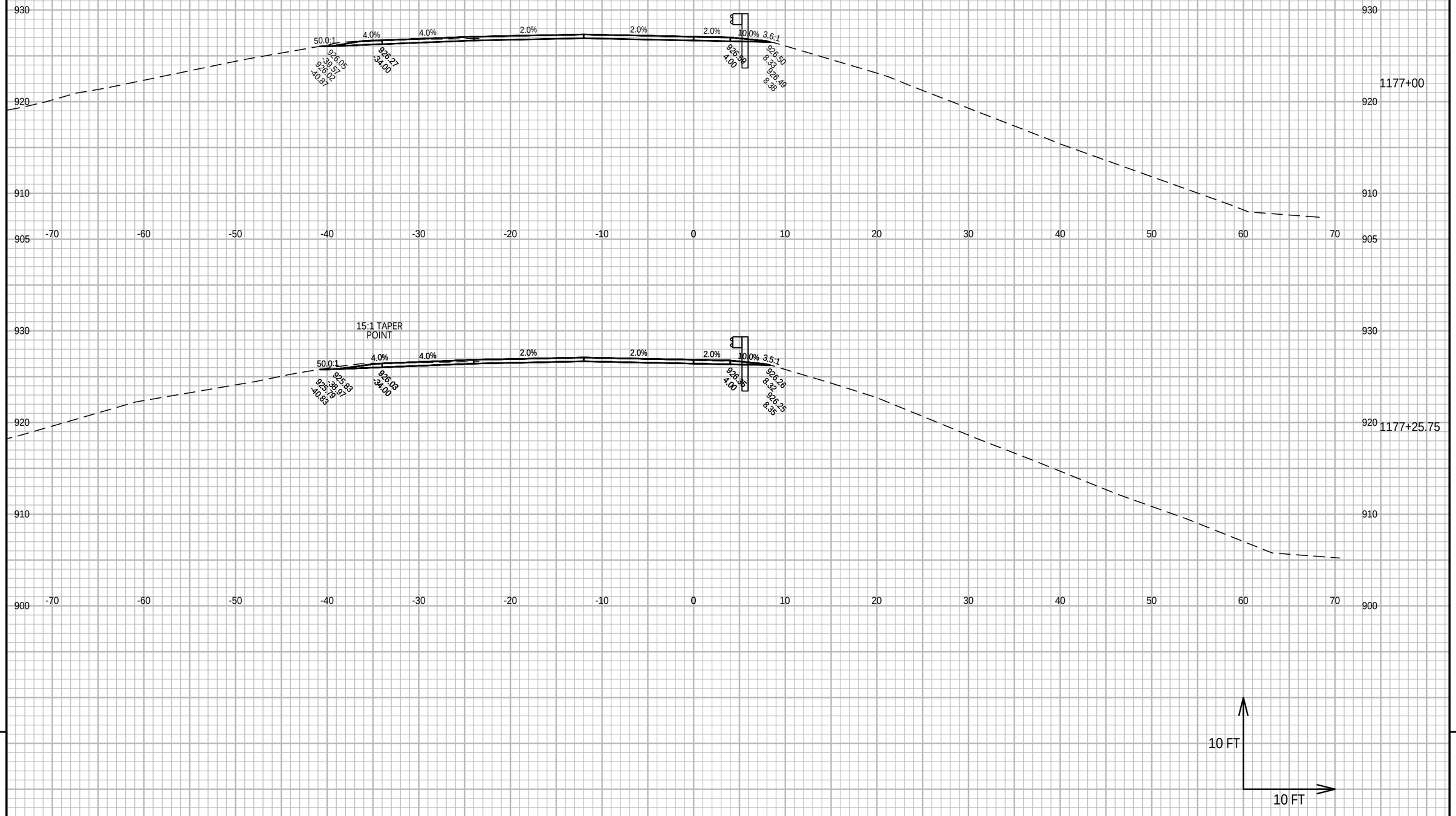
PROJECT NO: 1166-04-85	HWY: IH 39	COUNTY: MARQUETTE	CROSS SECTIONS: BEAMGUARD 1174+00 - 1184+00	SHEET 414	E

FILE NAME : G:\00\00093\00093777\CADD\SHEETSPLAN\090202-XS.DWG
LAYOUT NAME - 61

PLOT DATE : 6/27/2025 12:55 PM PLOT BY : SHAWN DOLENS PLOT NAME : PLOT SCALE : 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

RIGHT OF WAY (R/W) IS BEYOND EXTENTS OF THE CROSS SECTIONS. SEE PLANS FOR R/W LIMITS



9 9

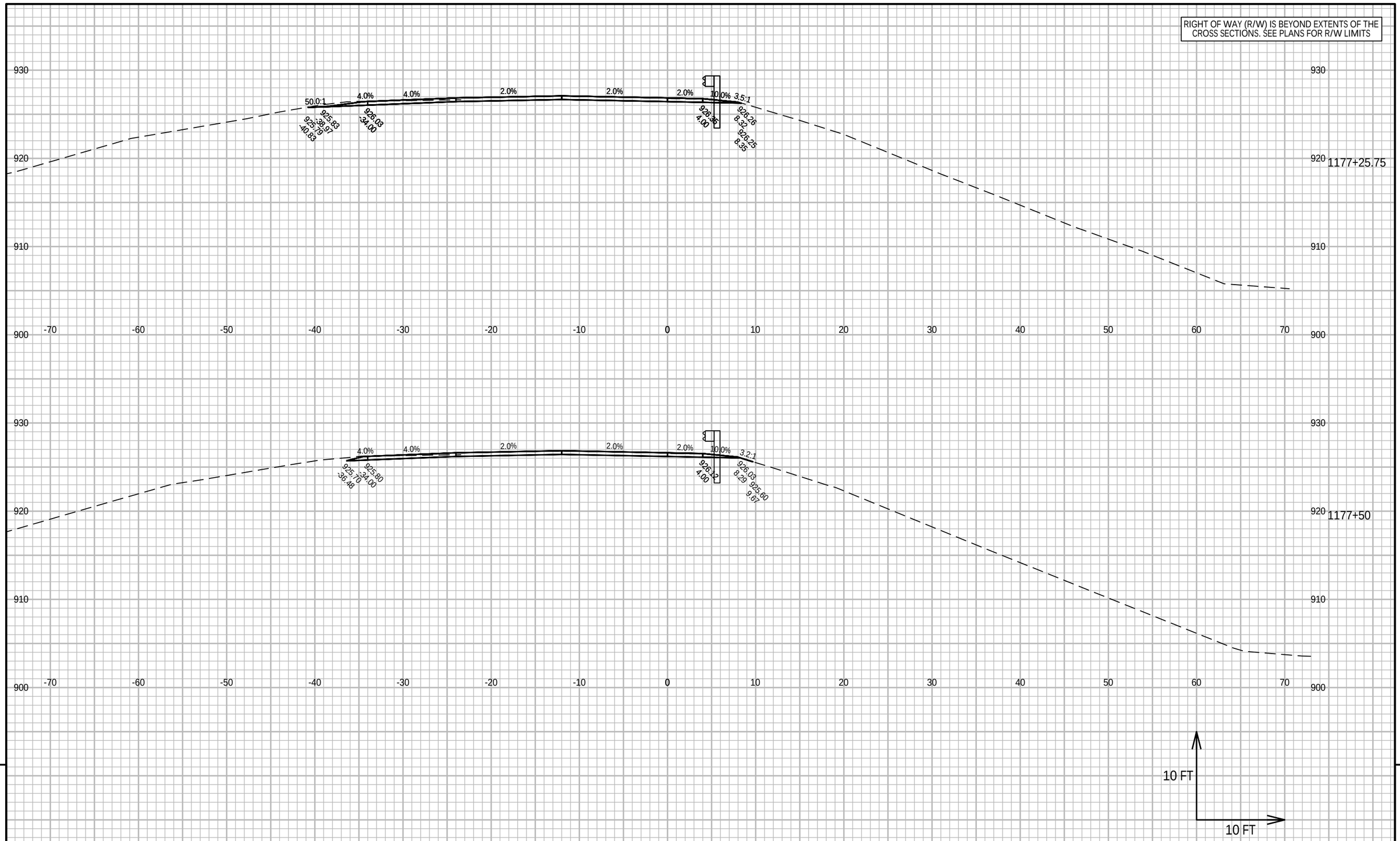
PROJECT NO: 1166-04-85	HWY: IH 39	COUNTY: MARQUETTE	CROSS SECTIONS: BEAMGUARD 1174+00 - 1184+00	SHEET 415	E

FILE NAME : G:\00\00093\00093777\CADD\SHEETSPLAN\090202-XS.DWG
LAYOUT NAME - 62

PLOT DATE : 6/27/2025 12:56 PM PLOT BY : SHAWN DOLENS PLOT NAME : **PLOT SCALE :** 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49

RIGHT OF WAY (R/W) IS BEYOND EXTENTS OF THE CROSS SECTIONS. SEE PLANS FOR R/W LIMITS



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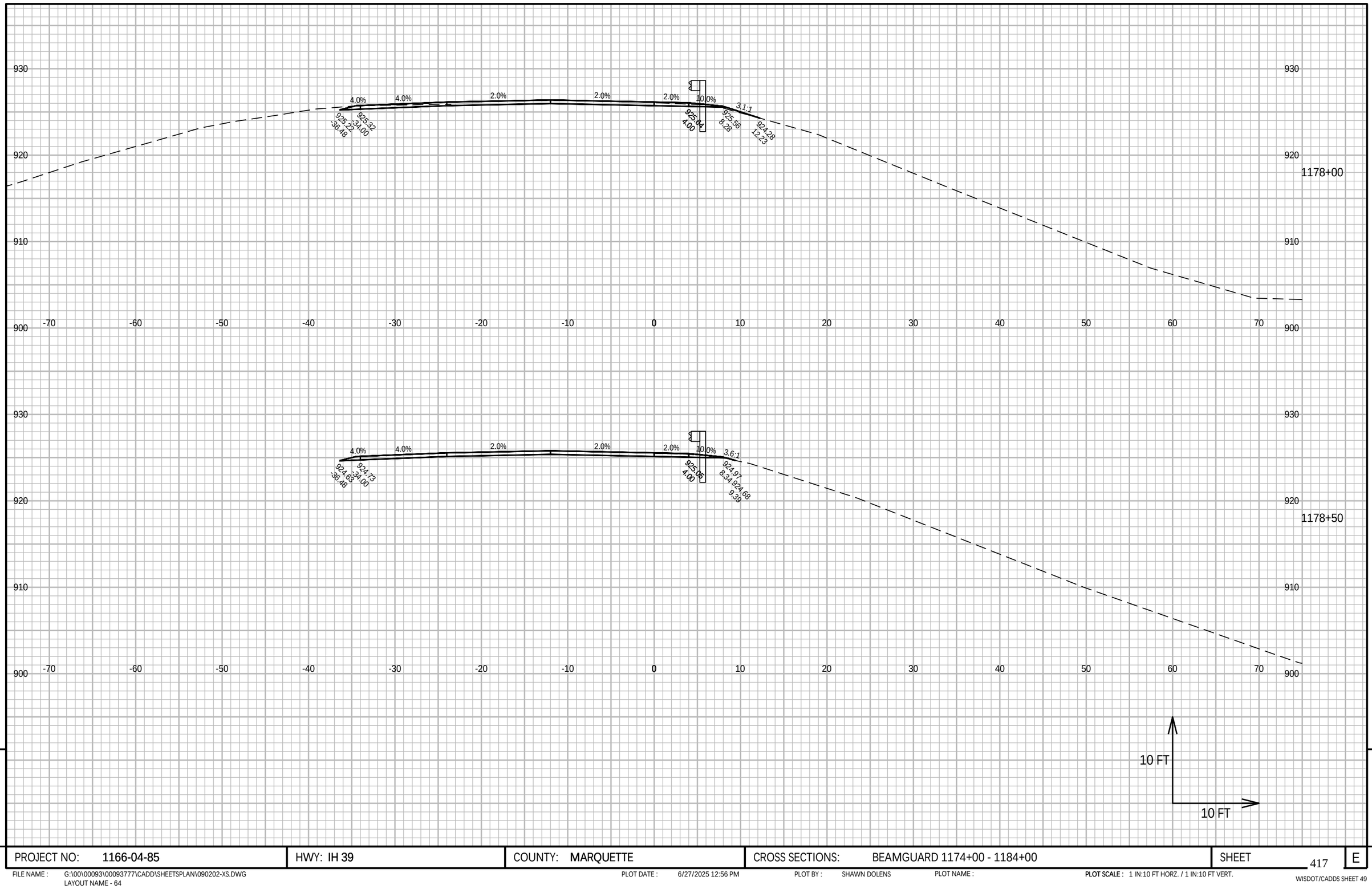
PROJECT NO: 1166-04-85	HWY: IH 39	COUNTY: MARQUETTE	CROSS SECTIONS: BEAMGUARD 1174+00 - 1184+00	SHEET 416	E

FILE NAME : G:\00\00093\00093777\CADD\SHEETSPLAN\090202-XS.DWG
LAYOUT NAME - 63

PLOT DATE : 6/27/2025 12:56 PM PLOT BY : SHAWN DOLENS PLOT NAME :

PLOT SCALE : 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.



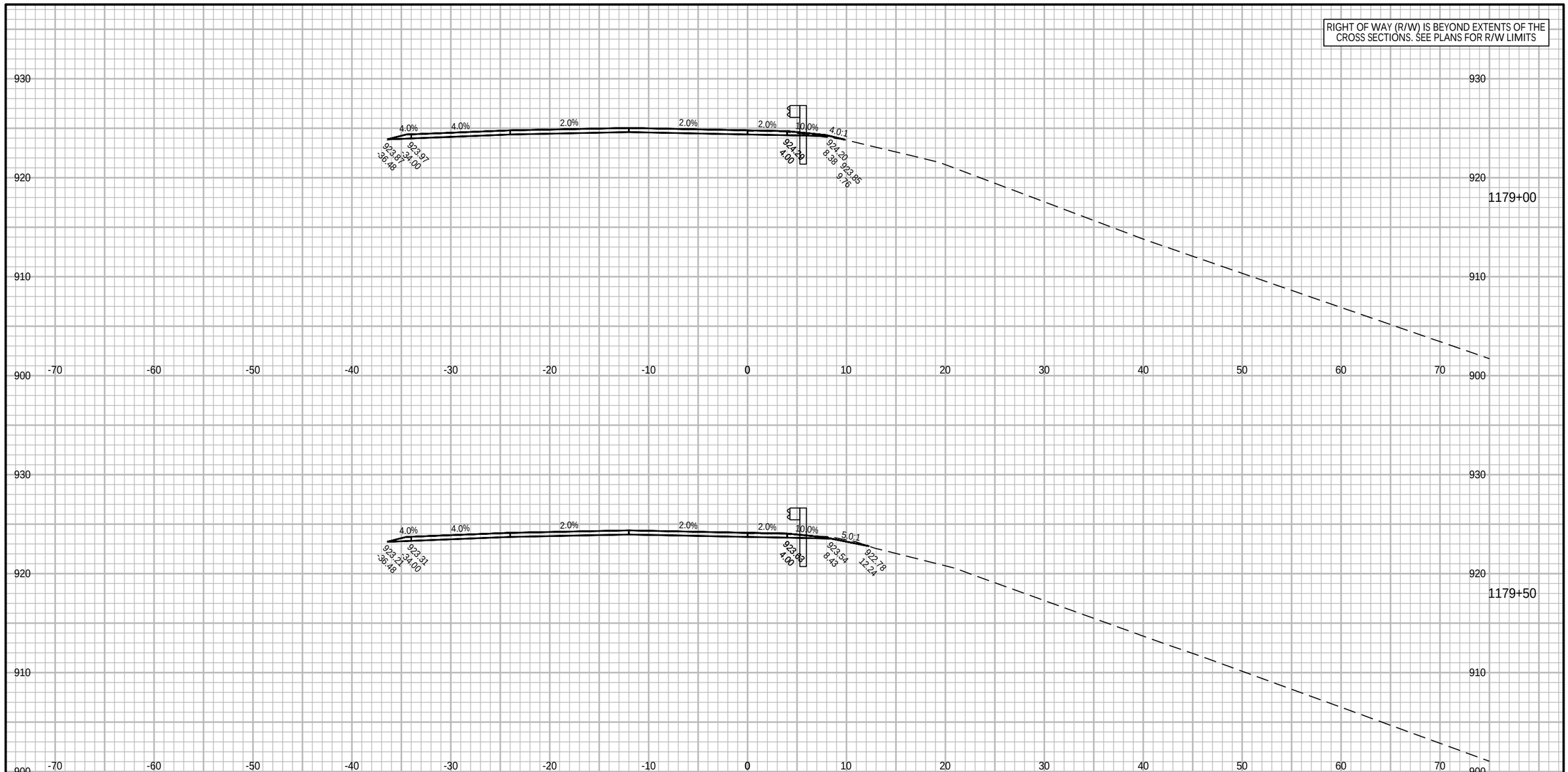
PROJECT NO: 1166-04-85	HWY: IH 39	COUNTY: MARQUETTE	CROSS SECTIONS: BEAMGUARD 1174+00 - 1184+00	SHEET 417	E

FILE NAME : G:\00\00093\00093777\CADD\SHEETSPLAN\090202-XS.DWG
LAYOUT NAME - 64

PLOT DATE : 6/27/2025 12:56 PM PLOT BY : SHAWN DOLENS PLOT NAME : PLOT SCALE : 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49

RIGHT OF WAY (R/W) IS BEYOND EXTENTS OF THE CROSS SECTIONS. SEE PLANS FOR R/W LIMITS



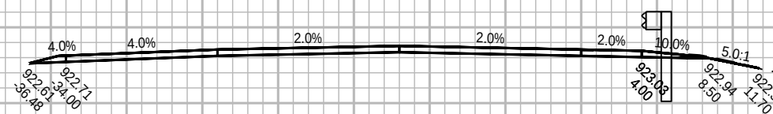
PROJECT NO: 1166-04-85	HWY: IH 39	COUNTY: MARQUETTE	CROSS SECTIONS: BEAMGUARD 1174+00 - 1184+00	SHEET 418	E

FILE NAME : G:\00\00093\00093777\CADD\SHEETSPLAN\090202-XS.DWG
LAYOUT NAME - 65

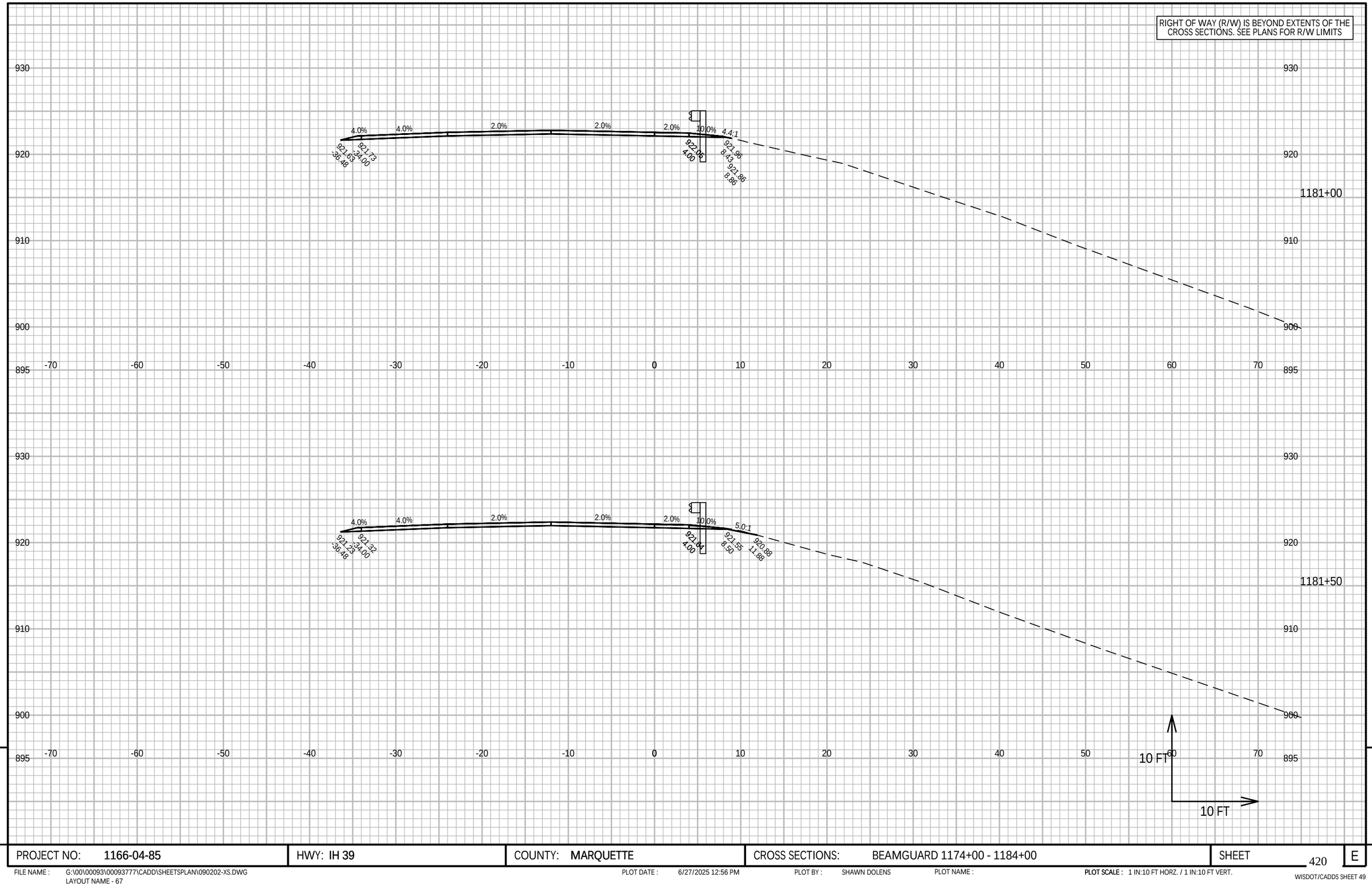
PLOT DATE : 6/27/2025 12:56 PM PLOT BY : SHAWN DOLENS PLOT NAME : PLOT SCALE : 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49

RIGHT OF WAY (R/W) IS BEYOND EXTENTS OF THE CROSS SECTIONS. SEE PLANS FOR R/W LIMITS



RIGHT OF WAY (R/W) IS BEYOND EXTENTS OF THE CROSS SECTIONS. SEE PLANS FOR R/W LIMITS



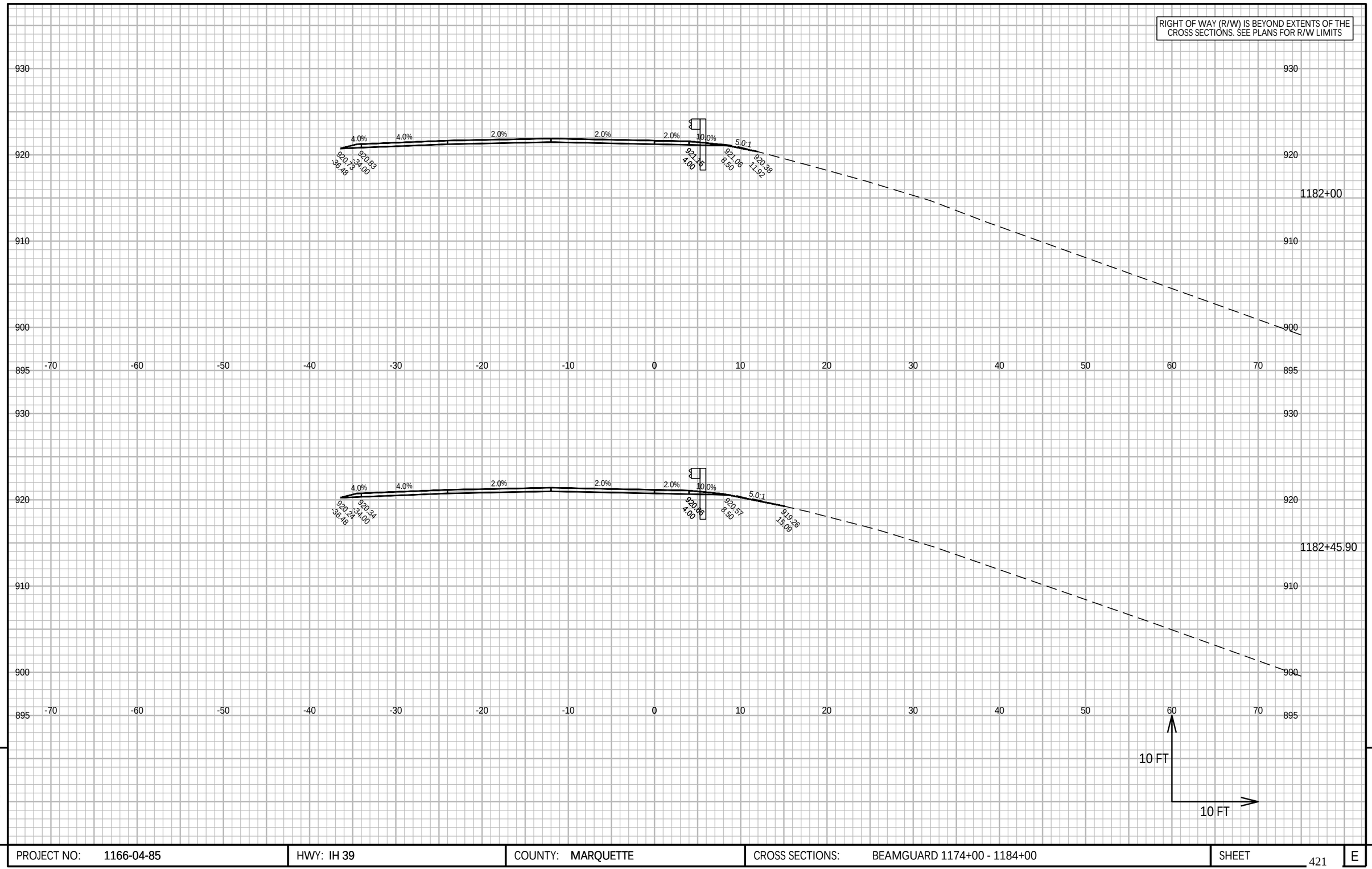
PROJECT NO: 1166-04-85	HWY: IH 39	COUNTY: MARQUETTE	CROSS SECTIONS: BEAMGUARD 1174+00 - 1184+00	SHEET 420	E

FILE NAME : G:\00\00093\00093777\CADD\SHEETSPLAN\090202-XS.DWG
LAYOUT NAME - 67

PLOT DATE : 6/27/2025 12:56 PM PLOT BY : SHAWN DOLENS PLOT NAME : PLOT SCALE : 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49

RIGHT OF WAY (R/W) IS BEYOND EXTENTS OF THE CROSS SECTIONS. SEE PLANS FOR R/W LIMITS



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PROJECT NO: 1166-04-85	HWY: IH 39	COUNTY: MARQUETTE	CROSS SECTIONS: BEAMGUARD 1174+00 - 1184+00	SHEET 421	E

FILE NAME : G:\00\00093\00093777\CADD\SHEETSPLAN\090202-XS.DWG
LAYOUT NAME - 68

PLOT DATE : 6/27/2025 12:56 PM PLOT BY : SHAWN DOLENS PLOT NAME : PLOT SCALE : 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

RIGHT OF WAY (R/W) IS BEYOND EXTENTS OF THE CROSS SECTIONS. SEE PLANS FOR R/W LIMITS

POST 9

4.0% 4.0% 2.0% 2.0% 2.0% 10.0% 5.0:1

920.24 :36.48 | 920.31 :34.00 | 920.03 4.11 | 920.54 8.62 | 919.21 15.26

1182+49.00

POST 5

4.0% 4.0% 2.0% 2.0% 2.0% 4.0% 4.0:1

919.98 :36.48 | 920.09 :34.00 | 920.38 5.06 | 920.27 10.77 | 919.34 14.49

1182+74.00

930 920 910 900 895

-70 -60 -50 -40 -30 -20 -10 0 10 20 30 40 50 60 70

10 FT

10 FT

9 9

PROJECT NO: 1166-04-85	HWY: IH 39	COUNTY: MARQUETTE	CROSS SECTIONS: BEAMGUARD 1174+00 - 1184+00	SHEET 422	E

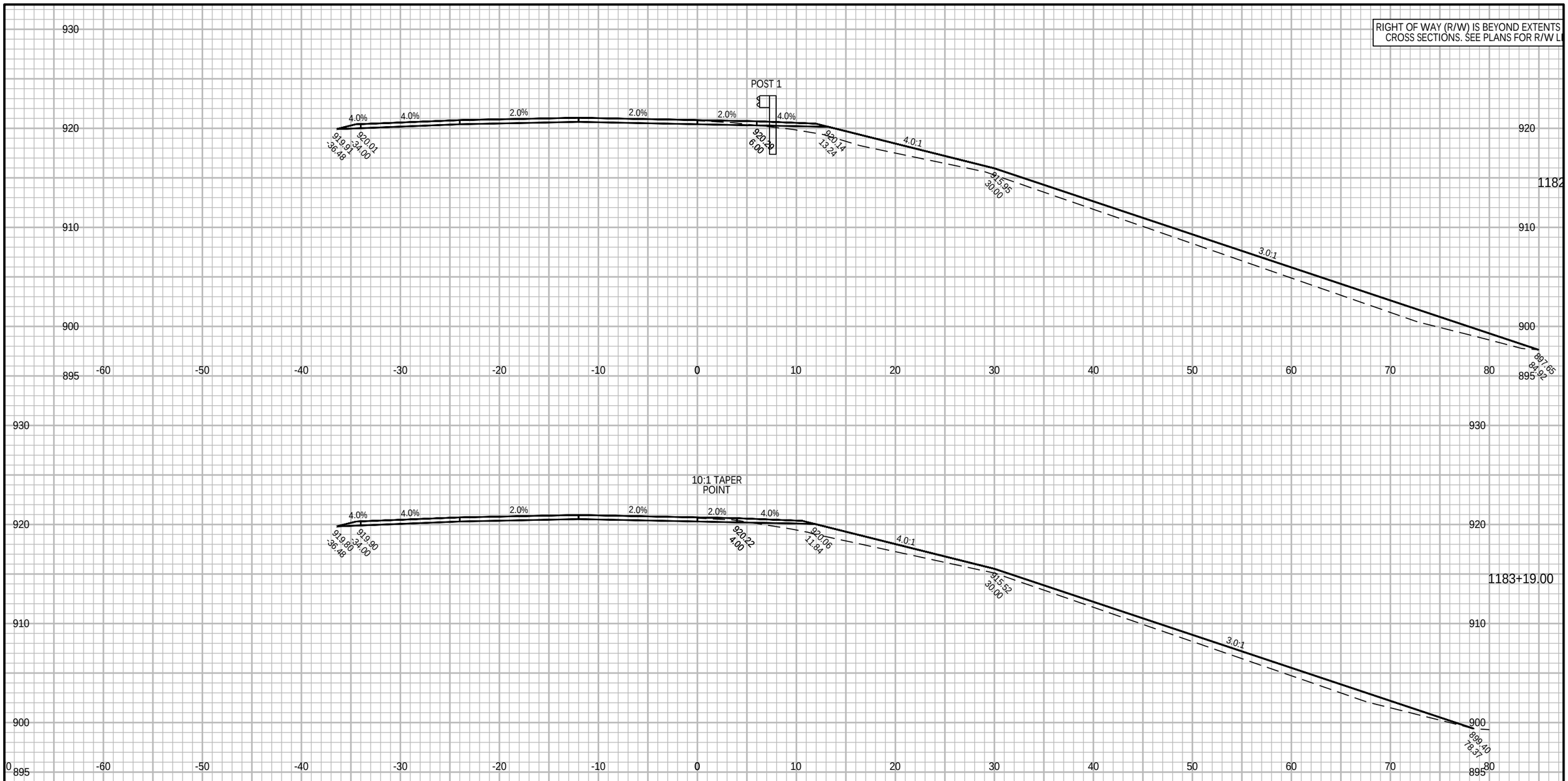
FILE NAME : G:\00\00093\00093777\CADD\SHEETSPLAN\090202-XS.DWG
LAYOUT NAME - 69

PLOT DATE : 6/27/2025 12:56 PM PLOT BY : SHAWN DOLENS PLOT NAME :

PLOT SCALE : 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49

RIGHT OF WAY (R/W) IS BEYOND EXTENTS
CROSS SECTIONS. SEE PLANS FOR R/W L



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PROJECT NO: 1166-04-85	HWY: IH 39	COUNTY: MARQUETTE	CROSS SECTIONS: BEAMGUARD 1174+00 - 1184+00	SHEET 423	E

FILE NAME : G:\00\00093\00093777\CADD\SHEETSPLAN\090202-XS.DWG
LAYOUT NAME - 70

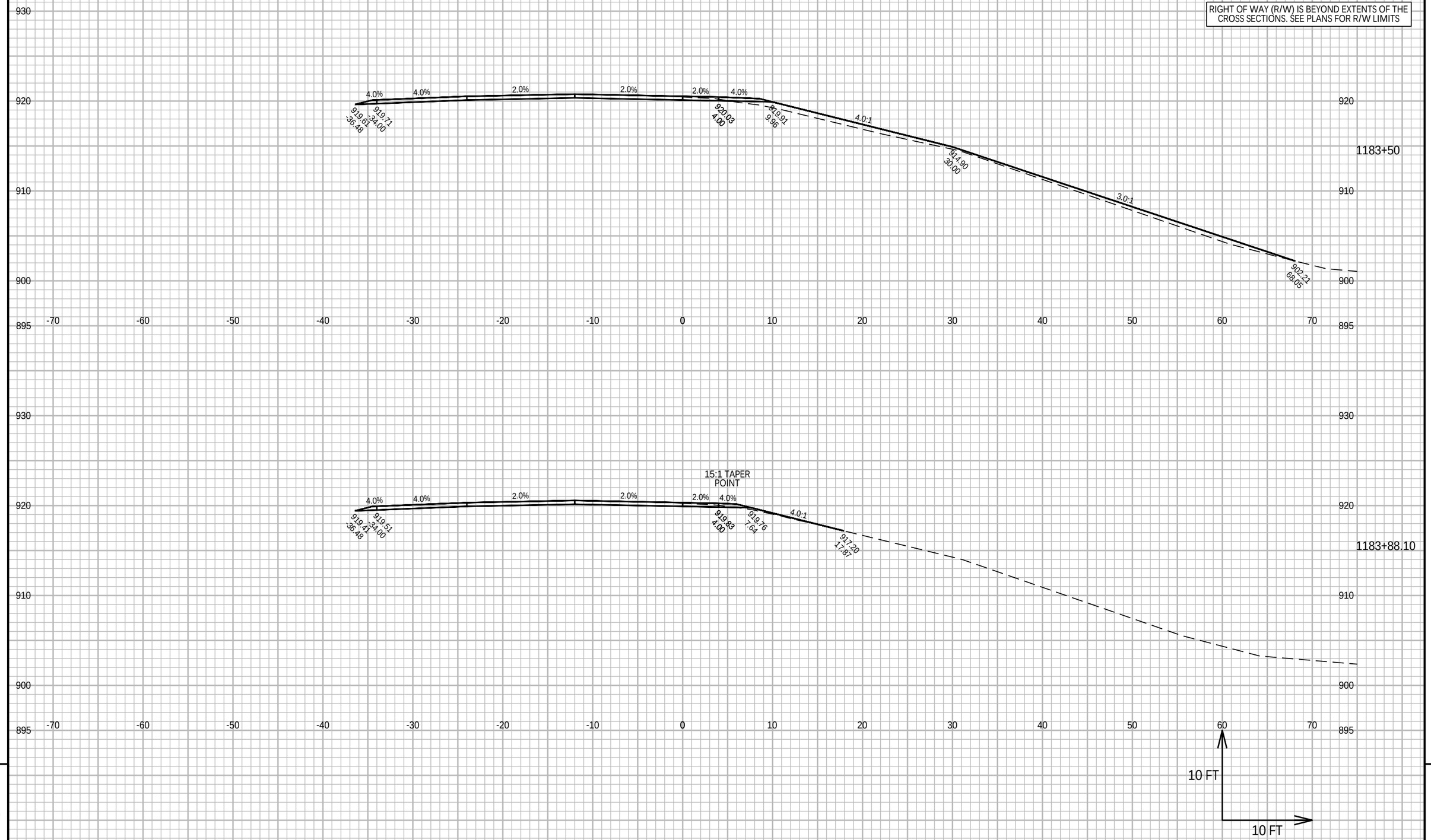
PLOT DATE : 6/27/2025 12:56 PM

PLOT BY : SHAWN DOLENS

PLOT NAME :

PLOT SCALE : 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

RIGHT OF WAY (R/W) IS BEYOND EXTENTS OF THE CROSS SECTIONS. SEE PLANS FOR R/W LIMITS

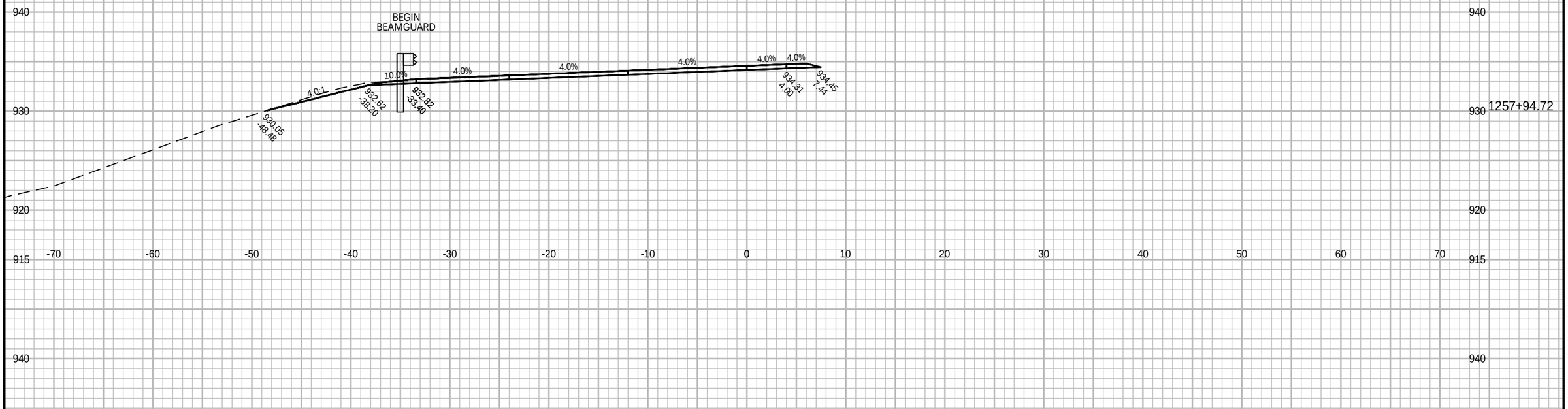


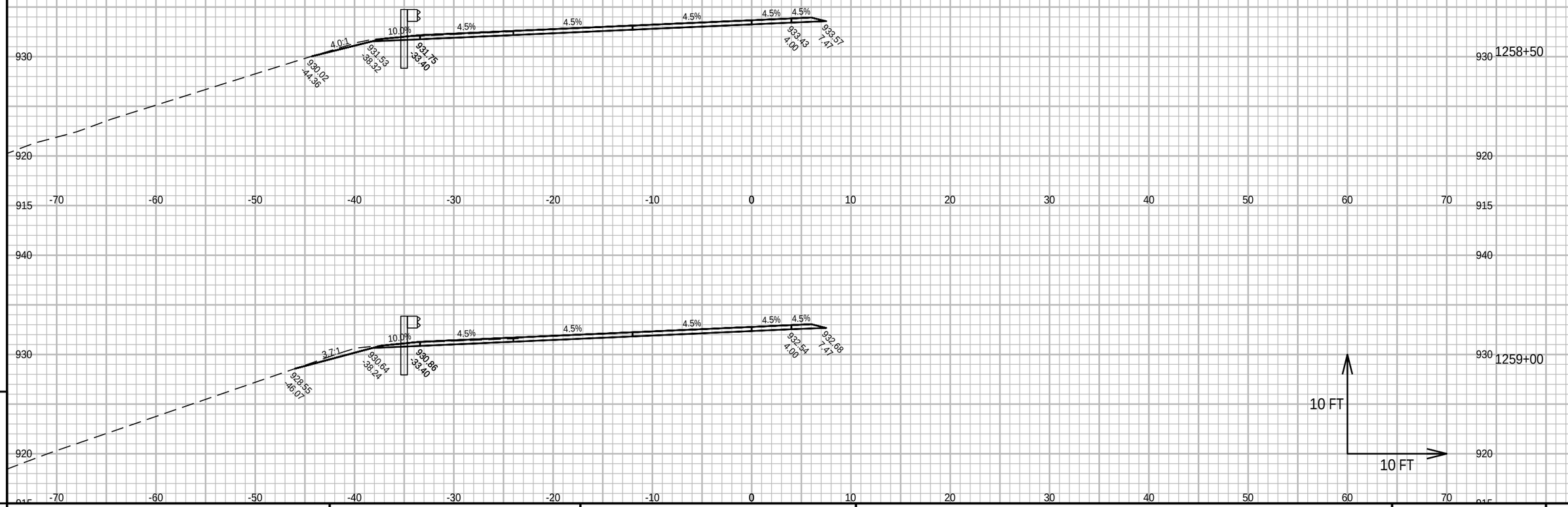
PROJECT NO: 1166-04-85	HWY: IH 39	COUNTY: MARQUETTE	CROSS SECTIONS: BEAMGUARD 1174+00 - 1184+00	SHEET 424	E

FILE NAME : G:\00\00093\00093777\CADD\SHEETSPLAN\090202-XS.DWG
LAYOUT NAME - 71

PLOT DATE : 6/27/2025 12:57 PM PLOT BY : SHAWN DOLENS PLOT NAME : PLOT SCALE : 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

RIGHT OF WAY (R/W) IS BEYOND EXTENTS OF THE CROSS SECTIONS. SEE PLANS FOR R/W LIMITS





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PROJECT NO: 1166-04-85	HWY: IH 39	COUNTY: MARQUETTE	CROSS SECTIONS: BEAMGUARD 1257+00 - 1260+00	SHEET 425	E

FILE NAME : G:\00\00093\00093777\CADD\SHEETSPLAN\090202-XS.DWG
LAYOUT NAME - 80

PLOT DATE : 6/27/2025 12:57 PM

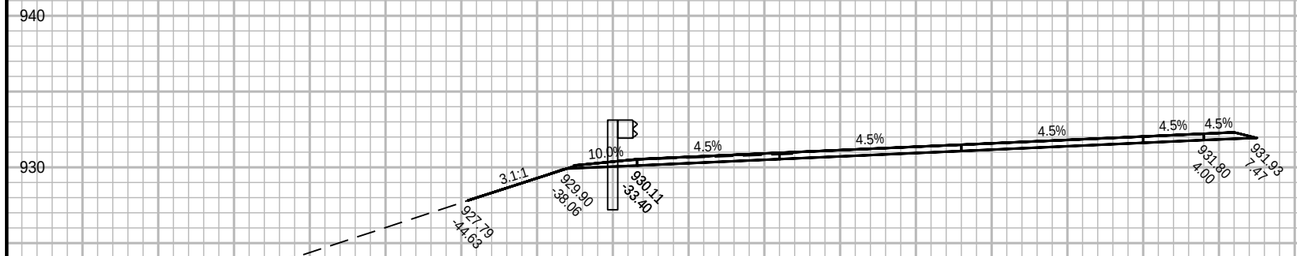
PLOT BY : SHAWN DOLENS

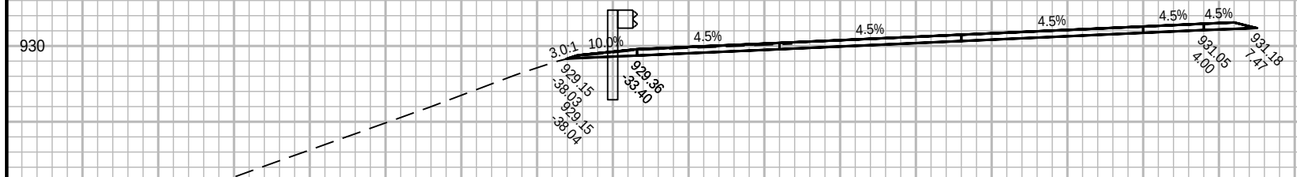
PLOT NAME :

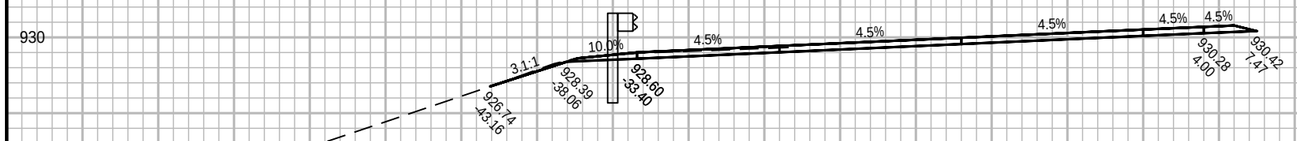
PLOT SCALE : 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

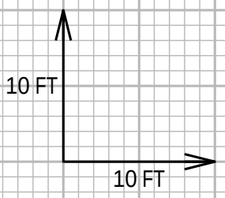
WISDOT/CADDS SHEET 49

RIGHT OF WAY (R/W) IS BEYOND EXTENTS OF THE CROSS SECTIONS. SEE PLANS FOR R/W LIMITS









1259+50

1260+00

1260+50

9

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PROJECT NO: 1166-04-85	HWY: IH 39	COUNTY: MARQUETTE	CROSS SECTIONS: BEAMGUARD 1257+00 - 1260+00	SHEET 426	E

FILE NAME : G:\00\00093\00093777\CADD\SHEETSPLAN\090202-XS.DWG
LAYOUT NAME - 81

PLOT DATE : 6/27/2025 12:57 PM

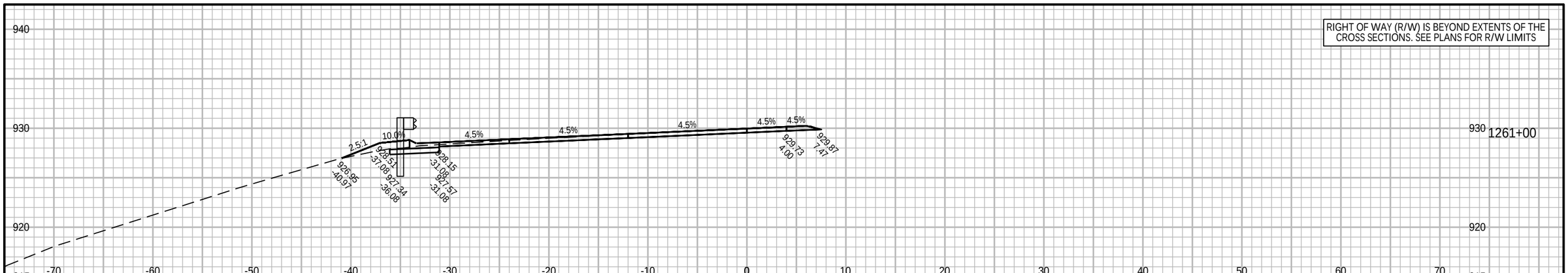
PLOT BY : SHAWN DOLENS

PLOT NAME :

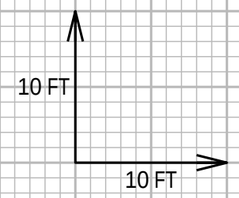
PLOT SCALE : 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49

RIGHT OF WAY (R/W) IS BEYOND EXTENTS OF THE CROSS SECTIONS. SEE PLANS FOR R/W LIMITS



STRUCTURE B-39-0040



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PROJECT NO: 1166-04-85	HWY: IH 39	COUNTY: MARQUETTE	CROSS SECTIONS: BEAMGUARD 1257+00 - 1260+00	SHEET 427	E

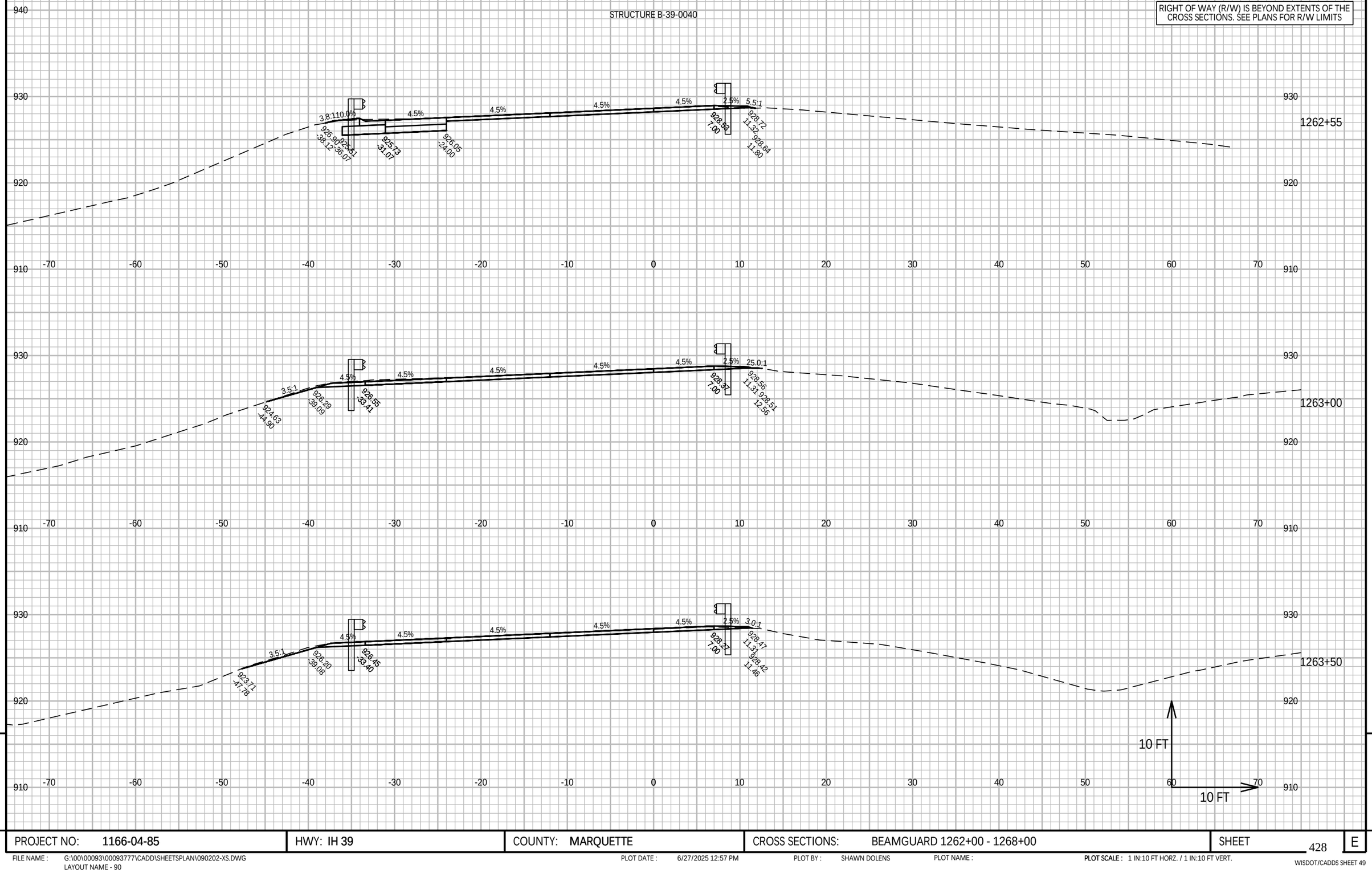
FILE NAME : G:\00\00093\00093777\CADD\SHEETSPLAN\090202-XS.DWG
LAYOUT NAME - 82

PLOT DATE : 6/27/2025 12:57 PM PLOT BY : SHAWN DOLENS PLOT NAME : **PLOT SCALE :** 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49

STRUCTURE B-39-0040

RIGHT OF WAY (R/W) IS BEYOND EXTENTS OF THE CROSS SECTIONS. SEE PLANS FOR R/W LIMITS



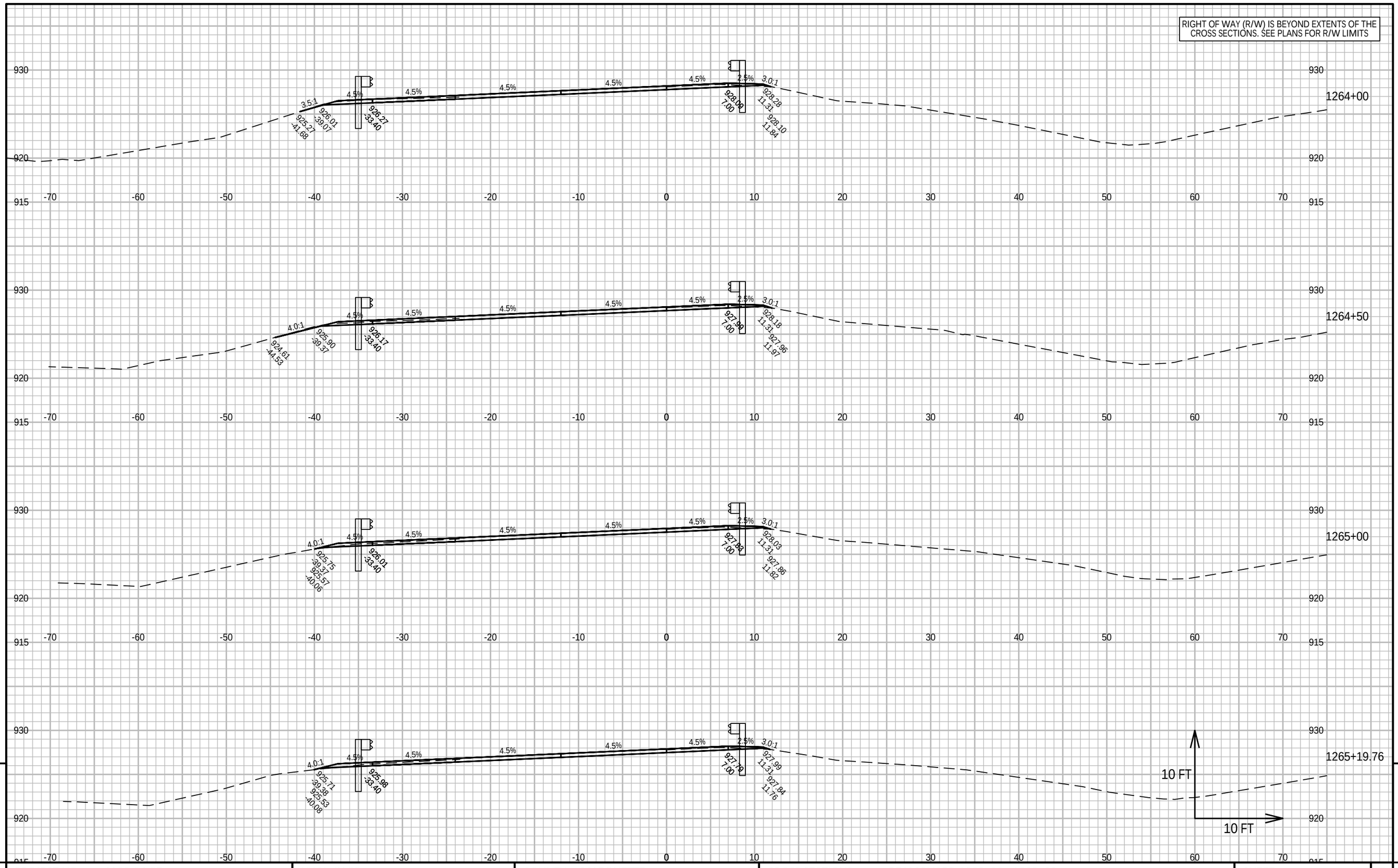
PROJECT NO: 1166-04-85	HWY: IH 39	COUNTY: MARQUETTE	CROSS SECTIONS: BEAMGUARD 1262+00 - 1268+00	SHEET 428 E

FILE NAME : G:\00\00093\00093777\CADD\SHEETSPLAN\090202-XS.DWG
LAYOUT NAME - 90

PLOT DATE : 6/27/2025 12:57 PM PLOT BY : SHAWN DOLENS PLOT NAME : **PLOT SCALE :** 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49

RIGHT OF WAY (R/W) IS BEYOND EXTENTS OF THE CROSS SECTIONS. SEE PLANS FOR R/W LIMITS



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PROJECT NO: 1166-04-85	HWY: IH 39	COUNTY: MARQUETTE	CROSS SECTIONS: BEAMGUARD 1262+00 - 1268+00	SHEET 429	E

FILE NAME : G:\00\00093\00093777\CADD\SHEETSPLAN\090202-XS.DWG
LAYOUT NAME - 91

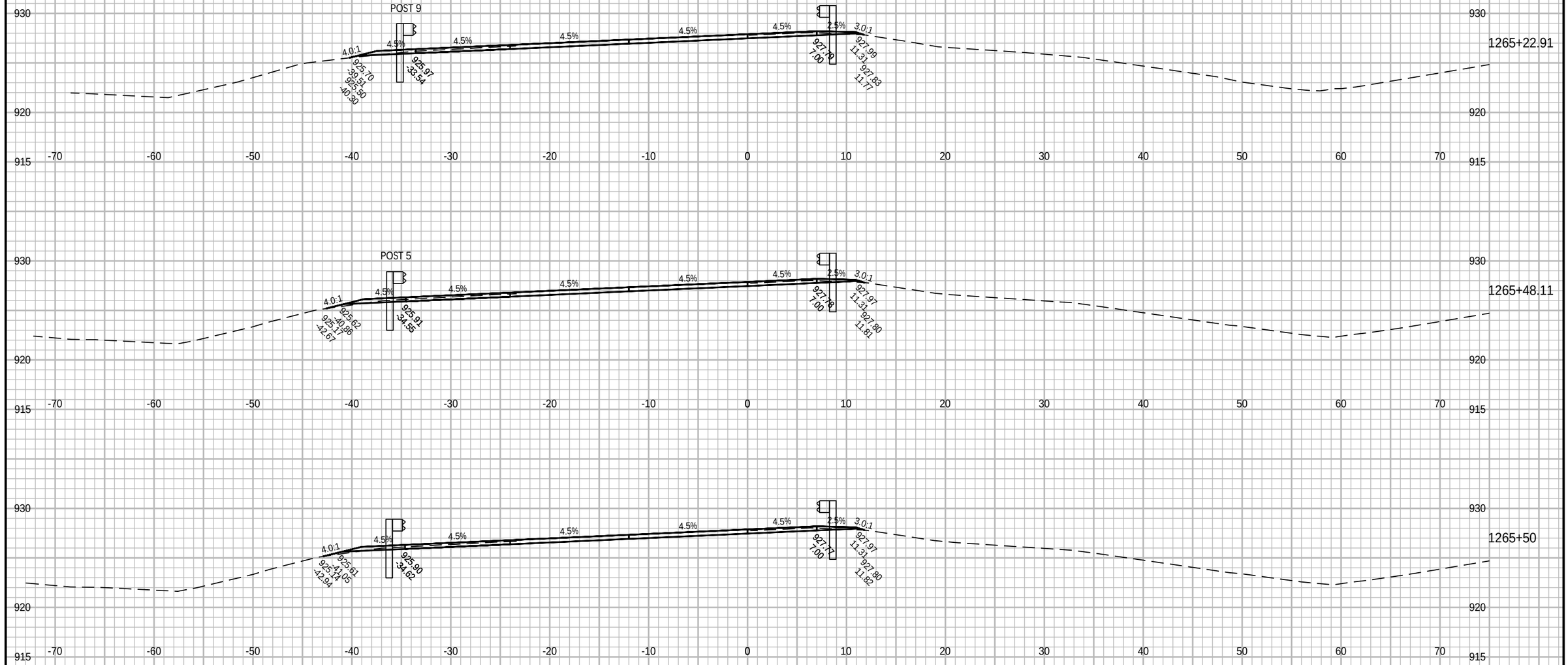
PLOT DATE : 6/27/2025 12:57 PM

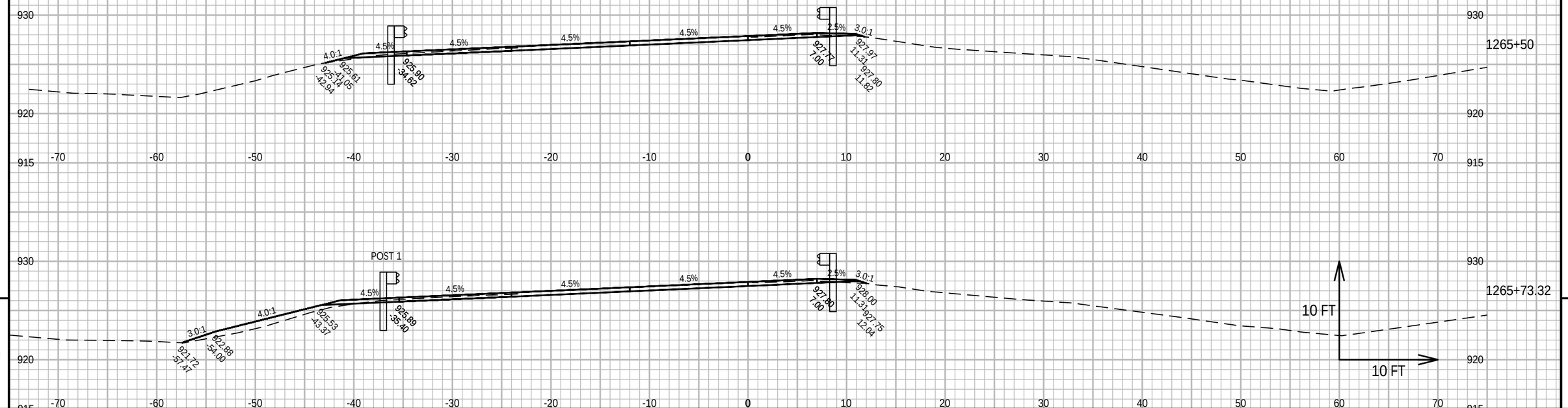
PLOT BY : SHAWN DOLENS

PLOT NAME :

PLOT SCALE : 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

RIGHT OF WAY (R/W) IS BEYOND EXTENTS OF THE CROSS SECTIONS. SEE PLANS FOR R/W LIMITS





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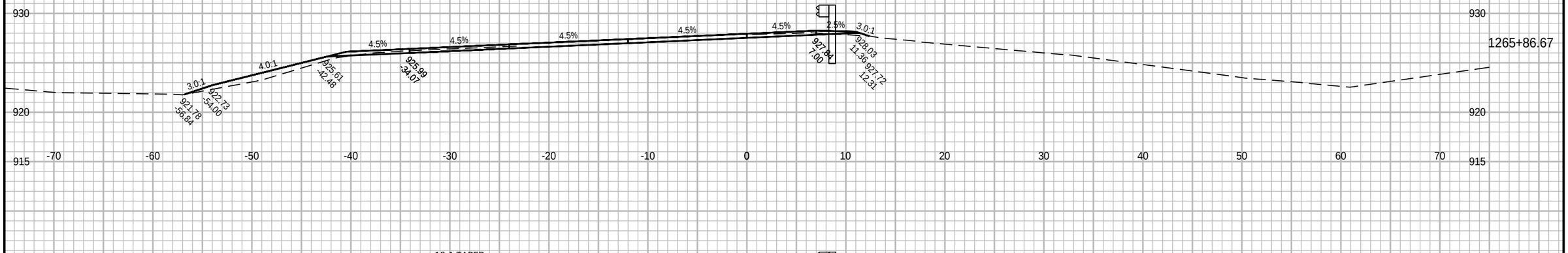
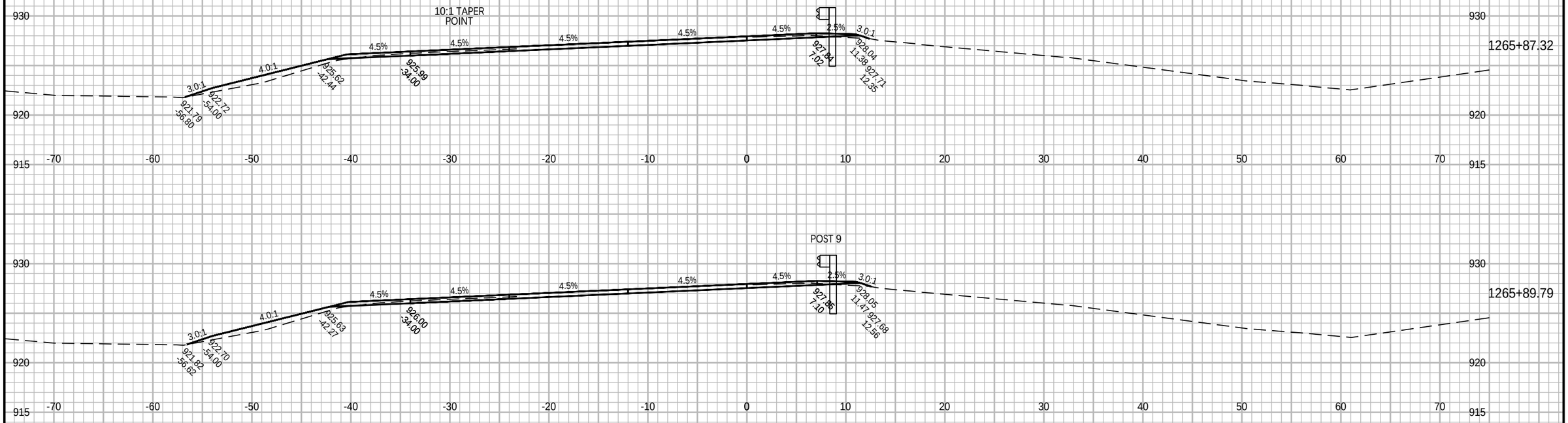
PROJECT NO: 1166-04-85	HWY: IH 39	COUNTY: MARQUETTE	CROSS SECTIONS: BEAMGUARD 1262+00 - 1268+00	SHEET 430	E

FILE NAME : G:\00\00093\00093777\CADD\SHEETSPLAN\090202-XS.DWG
LAYOUT NAME - 92

PLOT DATE : 6/27/2025 12:57 PM PLOT BY : SHAWN DOLENS PLOT NAME : PLOT SCALE : 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

RIGHT OF WAY (R/W) IS BEYOND EXTENTS OF THE CROSS SECTIONS. SEE PLANS FOR R/W LIMITS





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PROJECT NO: 1166-04-85	HWY: IH 39	COUNTY: MARQUETTE	CROSS SECTIONS: BEAMGUARD 1262+00 - 1268+00	SHEET 431	E

FILE NAME : G:\00\00093\00093777\CADD\SHEETSPLAN\090202-XS.DWG
LAYOUT NAME - 93

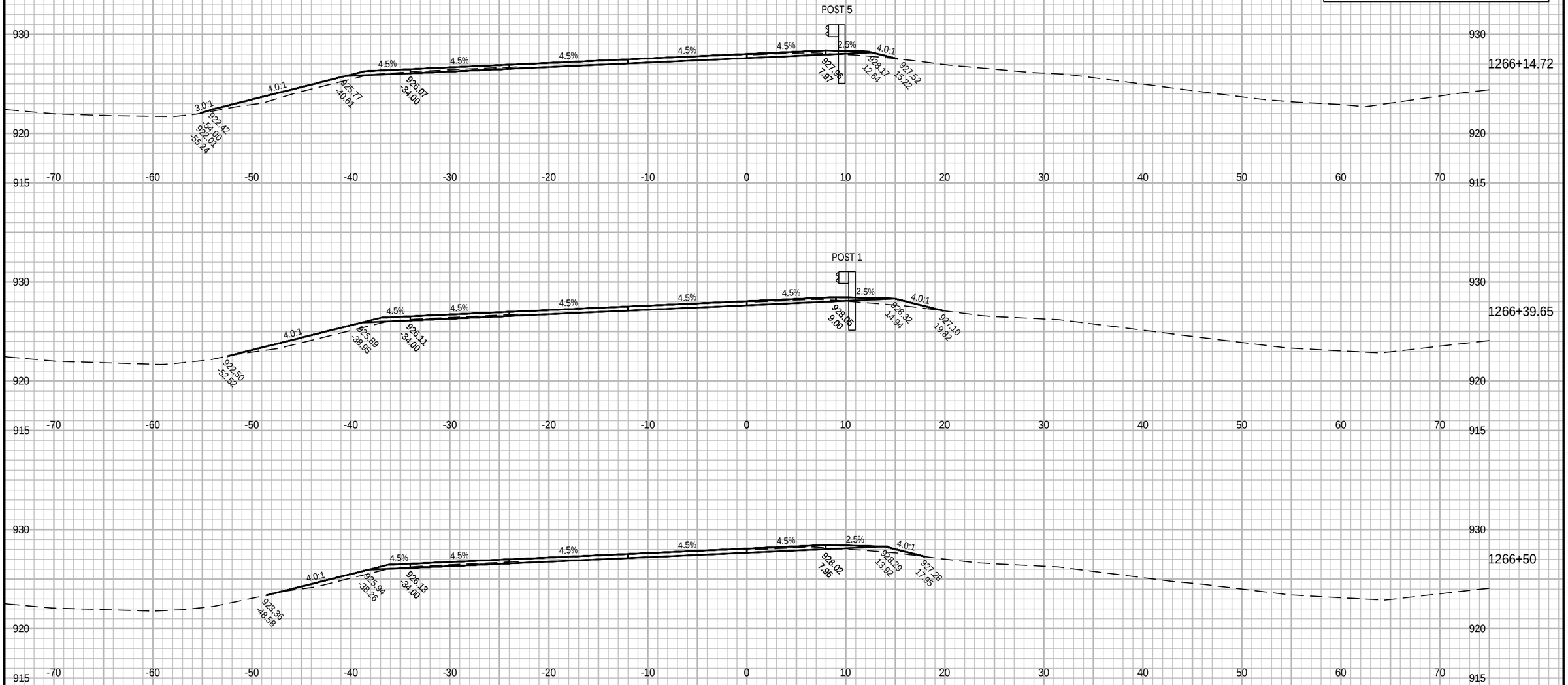
PLOT DATE : 6/27/2025 12:57 PM

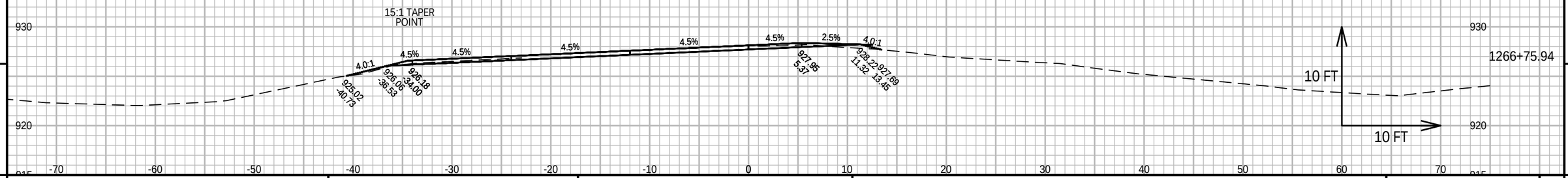
PLOT BY : SHAWN DOLENS

PLOT NAME :

PLOT SCALE : 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

RIGHT OF WAY (R/W) IS BEYOND EXTENTS OF THE CROSS SECTIONS. SEE PLANS FOR R/W LIMITS





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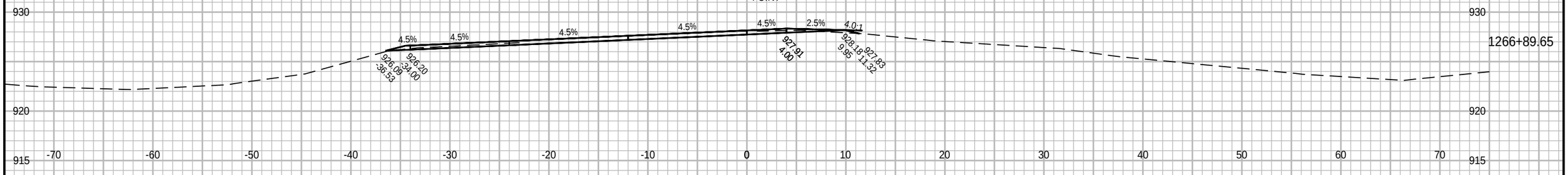
PROJECT NO: 1166-04-85	HWY: IH 39	COUNTY: MARQUETTE	CROSS SECTIONS: BEAMGUARD 1262+00 - 1268+00	SHEET 432	E

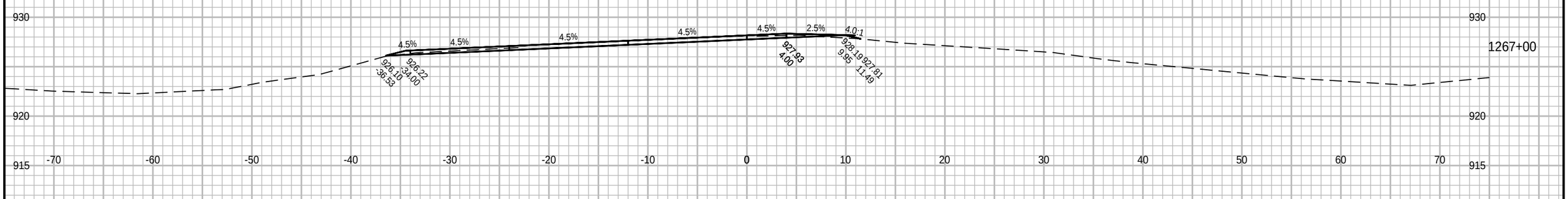
FILE NAME : G:\00\00093\00093777\CADD\SHEETSPLAN\090202-XS.DWG
LAYOUT NAME - 94

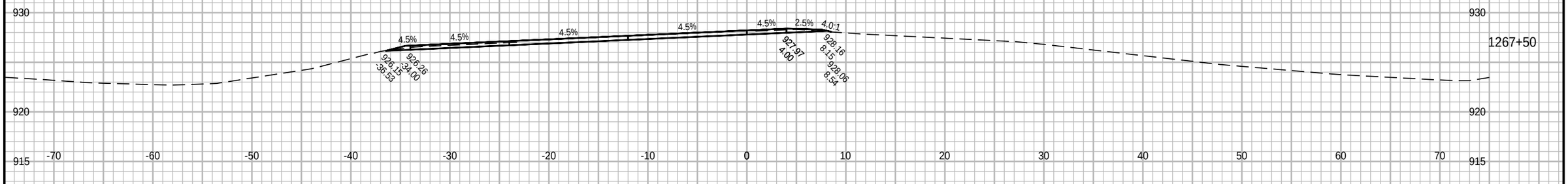
PLOT DATE : 6/27/2025 12:58 PM PLOT BY : SHAWN DOLENS PLOT NAME : PLOT SCALE : 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

RIGHT OF WAY (R/W) IS BEYOND EXTENTS OF THE CROSS SECTIONS. SEE PLANS FOR R/W LIMITS

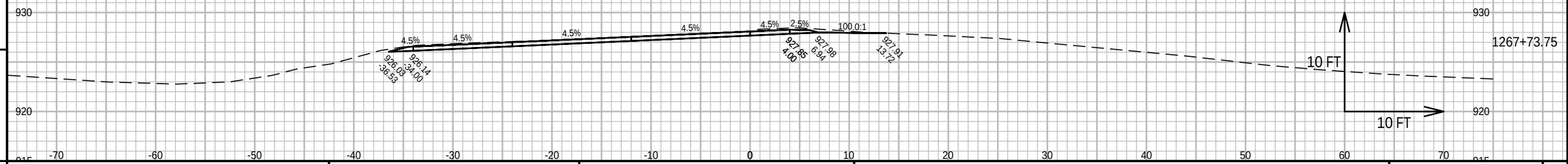
10:1 TAPER POINT







15:1 TAPER POINT



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PROJECT NO: 1166-04-85	HWY: IH 39	COUNTY: MARQUETTE	CROSS SECTIONS: BEAMGUARD 1262+00 - 1268+00	SHEET 433	E

FILE NAME : G:\00\00093\00093777\CADD\SHEETSPLAN\090202-XS.DWG
LAYOUT NAME - 95

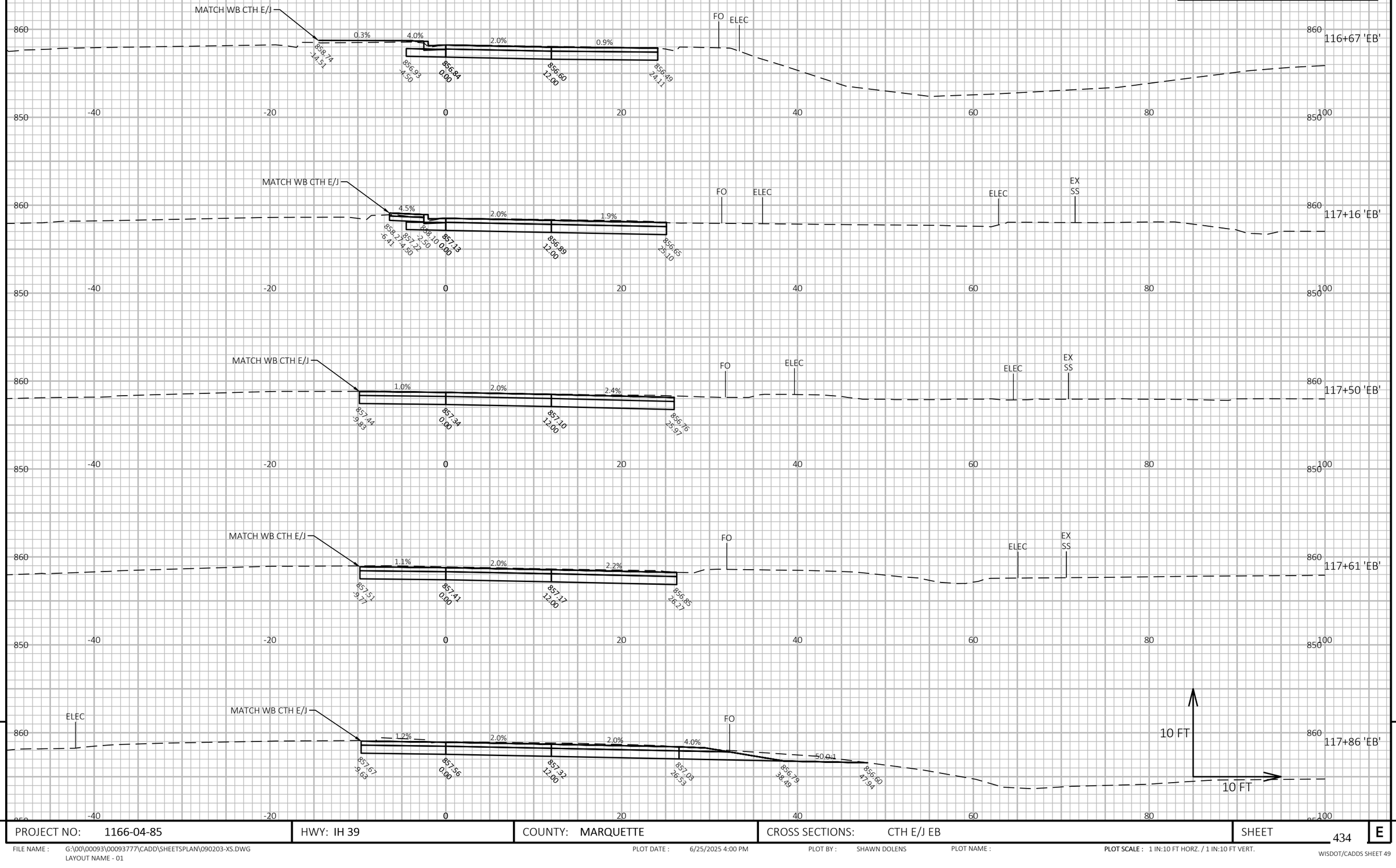
PLOT DATE : 6/27/2025 12:58 PM

PLOT BY : SHAWN DOLENS

PLOT NAME :

PLOT SCALE : 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

RIGHT OF WAY (R/W) IS BEYOND EXTENTS OF THE CROSS SECTIONS. SEE PLANS FOR R/W LIMITS



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PROJECT NO: 1166-04-85	HWY: IH 39	COUNTY: MARQUETTE	CROSS SECTIONS: CTH E/J EB	SHEET 434	E

FILE NAME : G:\00\00093\00093777\CADD\SHEETSPLAN\090203-XS.DWG
LAYOUT NAME - 01

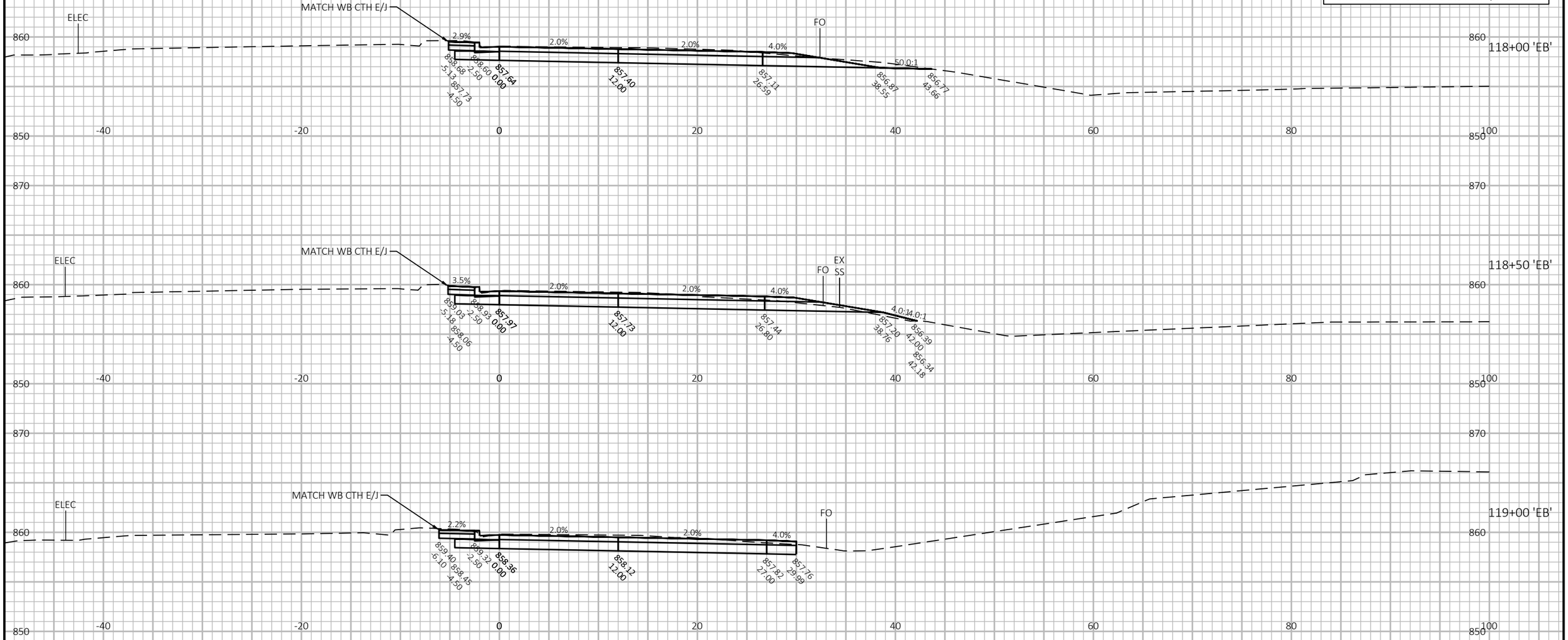
PLOT DATE : 6/25/2025 4:00 PM

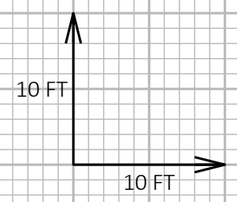
PLOT BY : SHAWN DOLENS

PLOT NAME :

PLOT SCALE : 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

RIGHT OF WAY (R/W) IS BEYOND EXTENTS OF THE CROSS SECTIONS. SEE PLANS FOR R/W LIMITS





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PROJECT NO: 1166-04-85	HWY: IH 39	COUNTY: MARQUETTE	CROSS SECTIONS: CTH E/J EB	SHEET 435	E

FILE NAME : G:\00\00093\00093777\CADD\SHEETSPLAN\090203-XS.DWG
LAYOUT NAME - 02

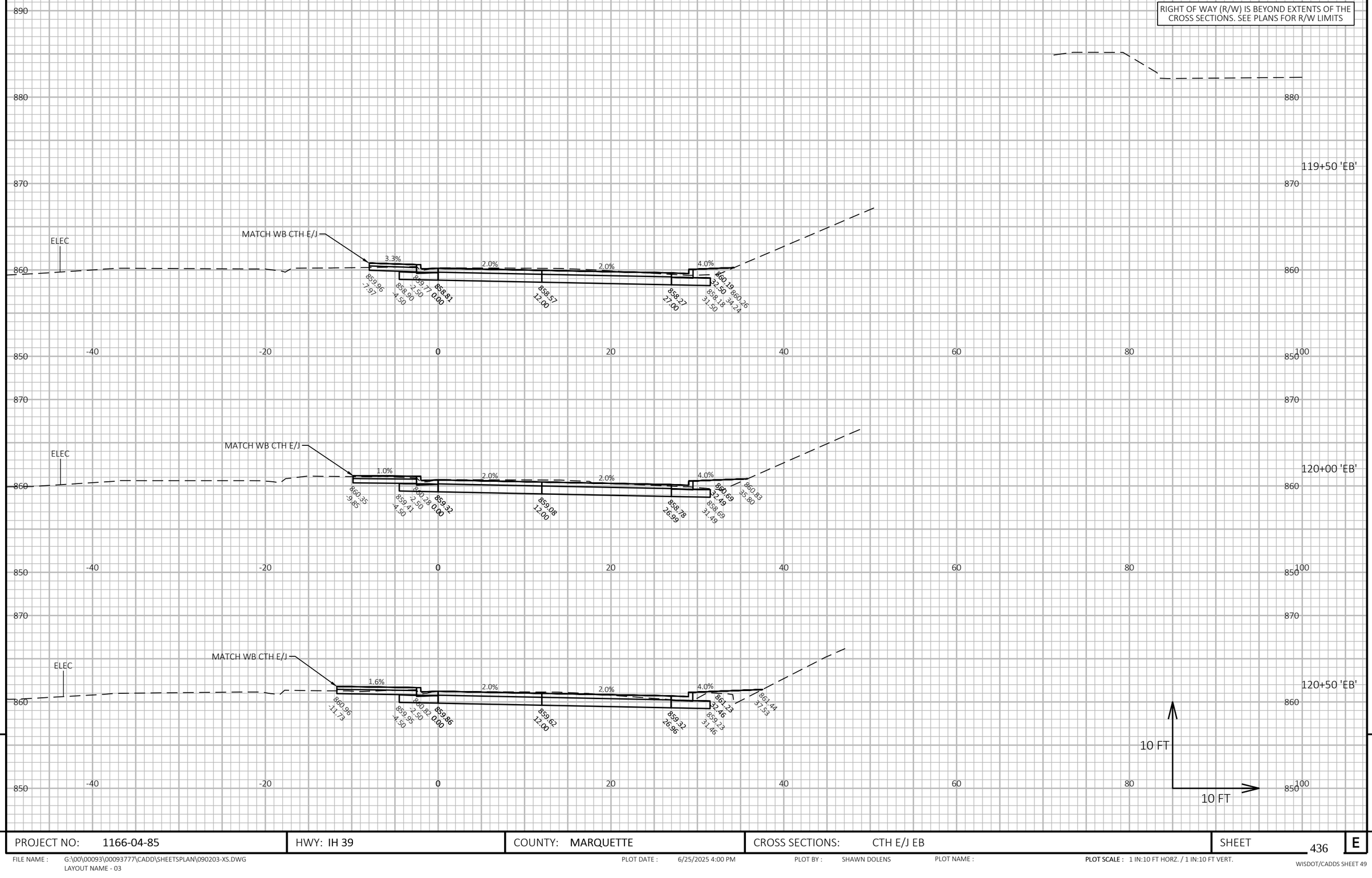
PLOT DATE : 6/25/2025 4:00 PM

PLOT BY : SHAWN DOLENS

PLOT NAME :

PLOT SCALE : 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

RIGHT OF WAY (R/W) IS BEYOND EXTENTS OF THE CROSS SECTIONS. SEE PLANS FOR R/W LIMITS



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PROJECT NO: 1166-04-85	HWY: IH 39	COUNTY: MARQUETTE	CROSS SECTIONS: CTH E/J EB	SHEET 436	E

FILE NAME : G:\00\00093\00093777\CADD\SHEETSPLAN\090203-XS.DWG
LAYOUT NAME - 03

PLOT DATE : 6/25/2025 4:00 PM

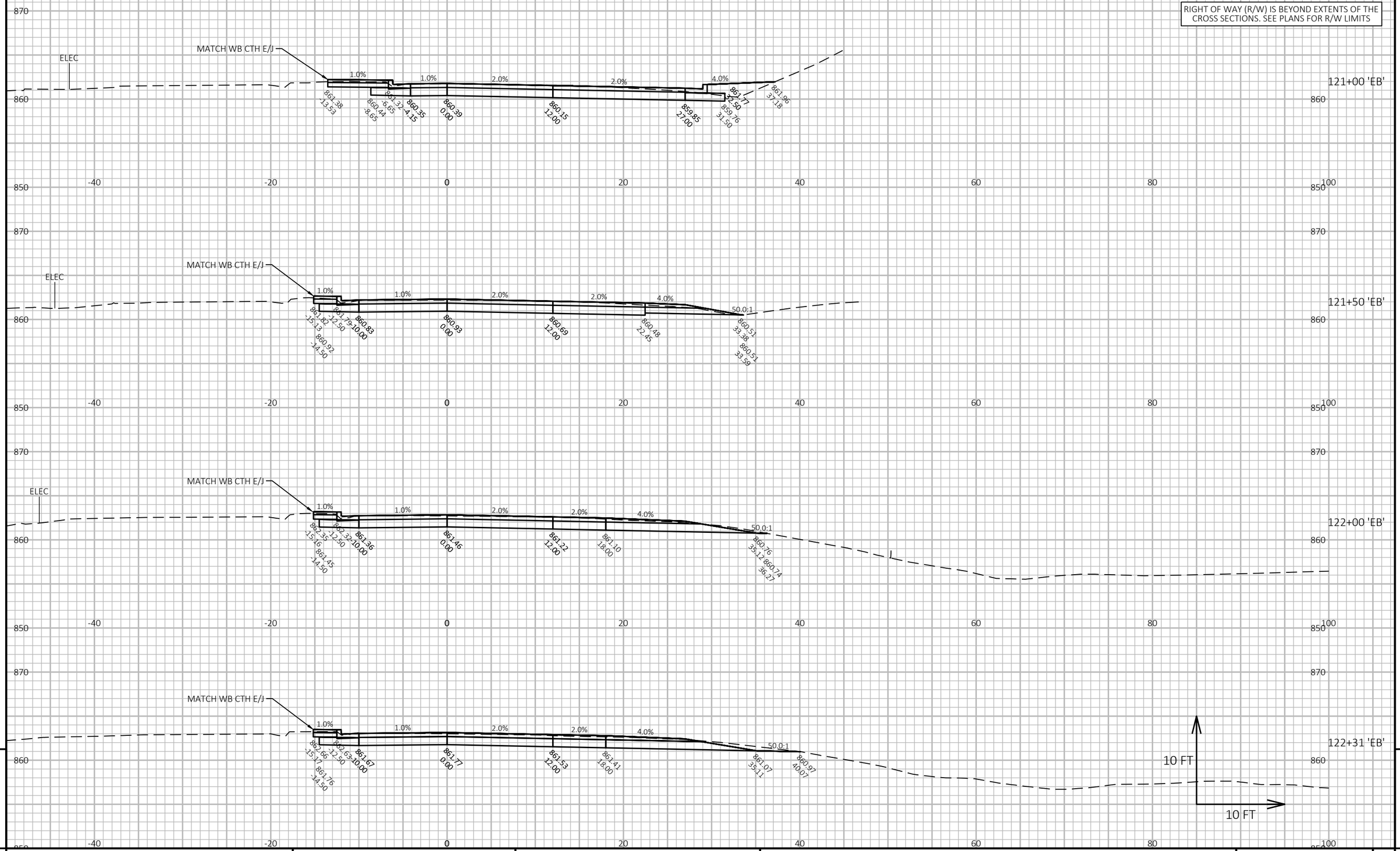
PLOT BY : SHAWN DOLENS

PLOT NAME :

PLOT SCALE : 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49

RIGHT OF WAY (R/W) IS BEYOND EXTENTS OF THE CROSS SECTIONS. SEE PLANS FOR R/W LIMITS



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PROJECT NO: 1166-04-85	HWY: IH 39	COUNTY: MARQUETTE	CROSS SECTIONS: CTH E/J EB	SHEET 437	E

FILE NAME : G:\00\00093\00093777\CADD\SHEETSPLAN\090203-XS.DWG
LAYOUT NAME - 04

PLOT DATE : 6/25/2025 4:01 PM

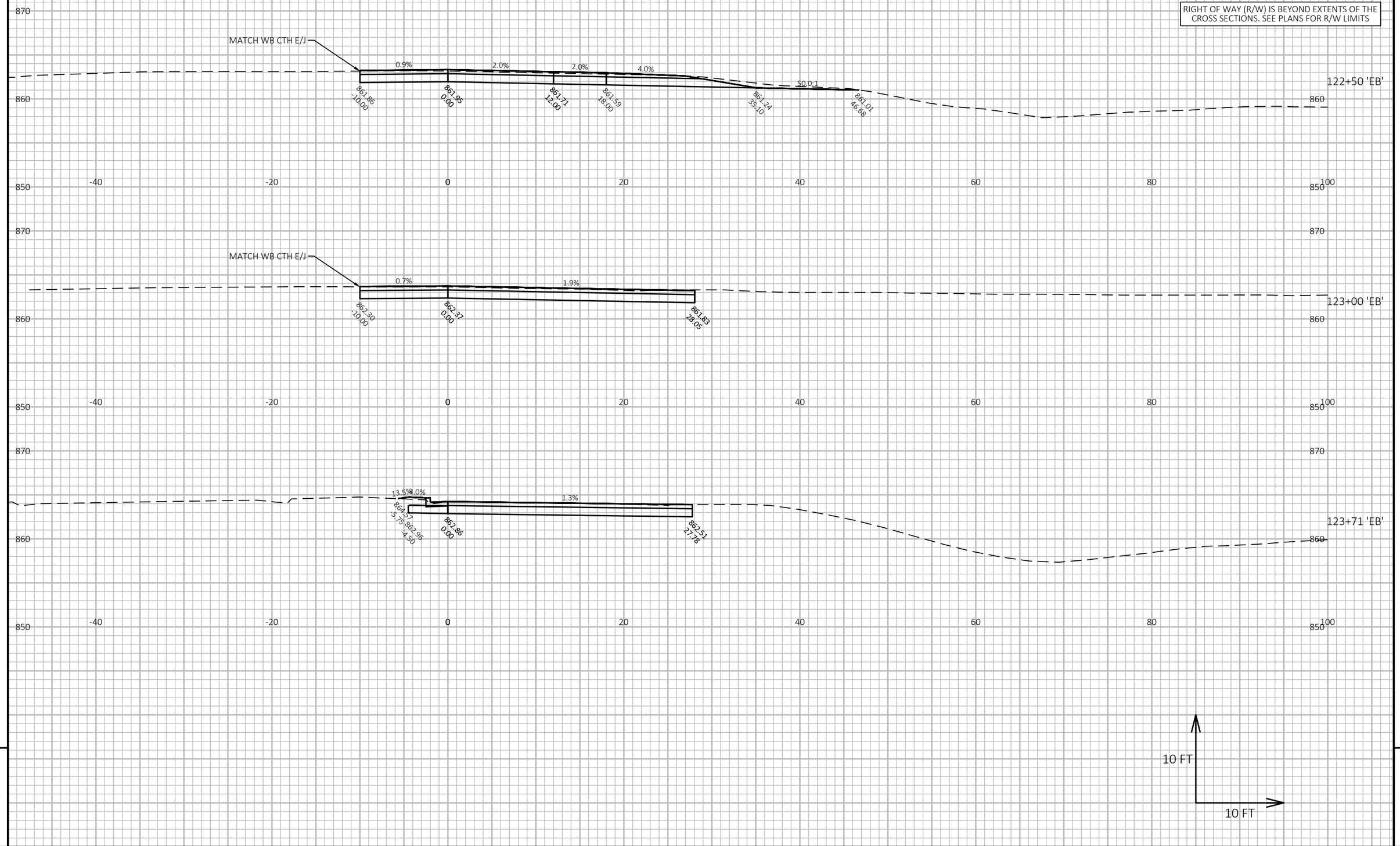
PLOT BY : SHAWN DOLENS

PLOT NAME :

PLOT SCALE : 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49

RIGHT OF WAY (R/W) IS BEYOND EXTENTS OF THE CROSS SECTIONS. SEE PLANS FOR R/W LIMITS



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PROJECT NO: 1166-04-85	HWY: IH 39	COUNTY: MARQUETTE	CROSS SECTIONS: CTH E/J EB	SHEET 438	E

FILE NAME : G:\00\00093\00093777\CADD\SHEETSPLAN\090203-XS.DWG
LAYOUT NAME - 05

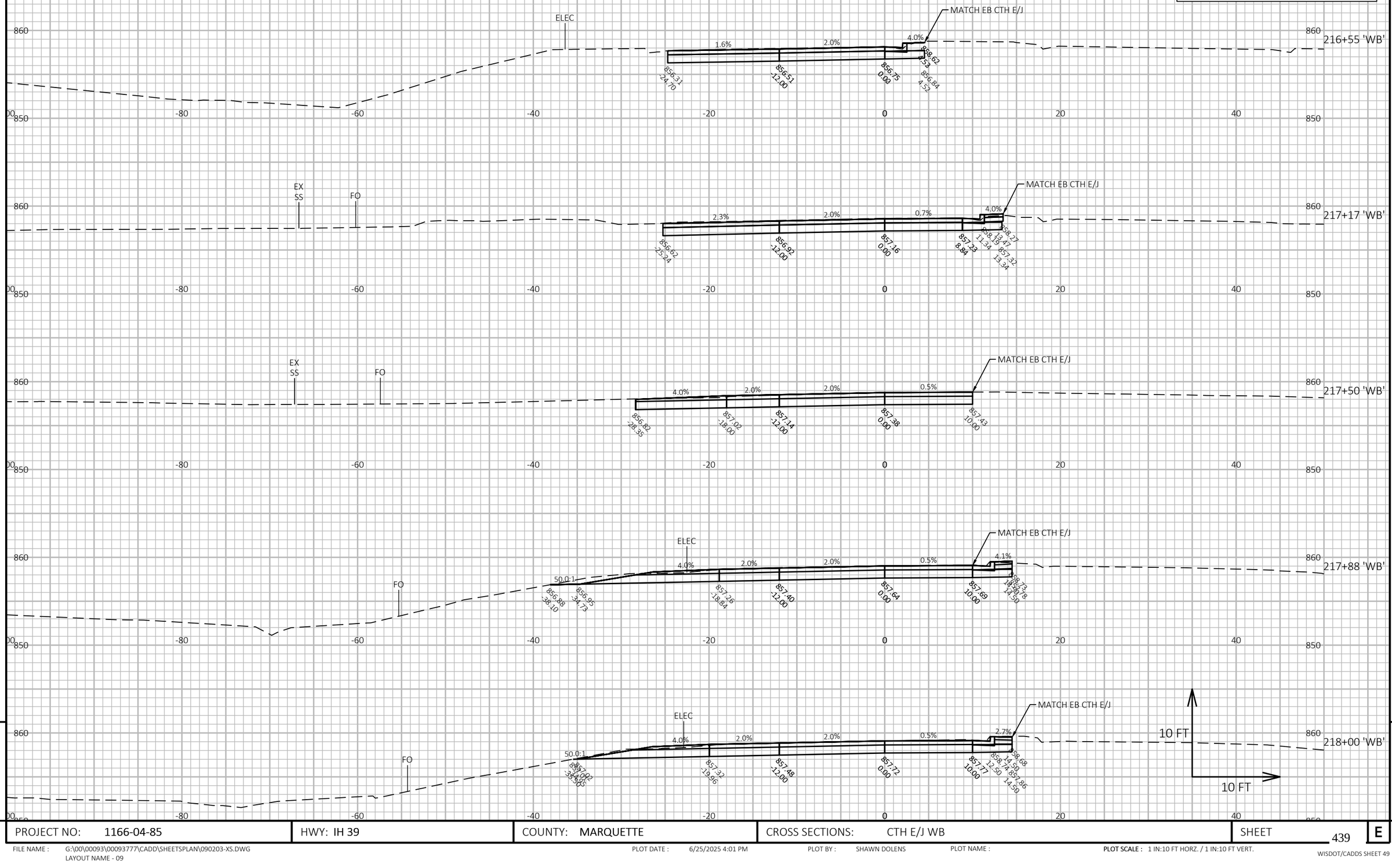
PLOT DATE : 6/25/2025 4:01 PM

PLOT BY : SHAWN DOLENS

PLOT NAME :

PLOT SCALE : 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

RIGHT OF WAY (R/W) IS BEYOND EXTENTS OF THE CROSS SECTIONS. SEE PLANS FOR R/W LIMITS



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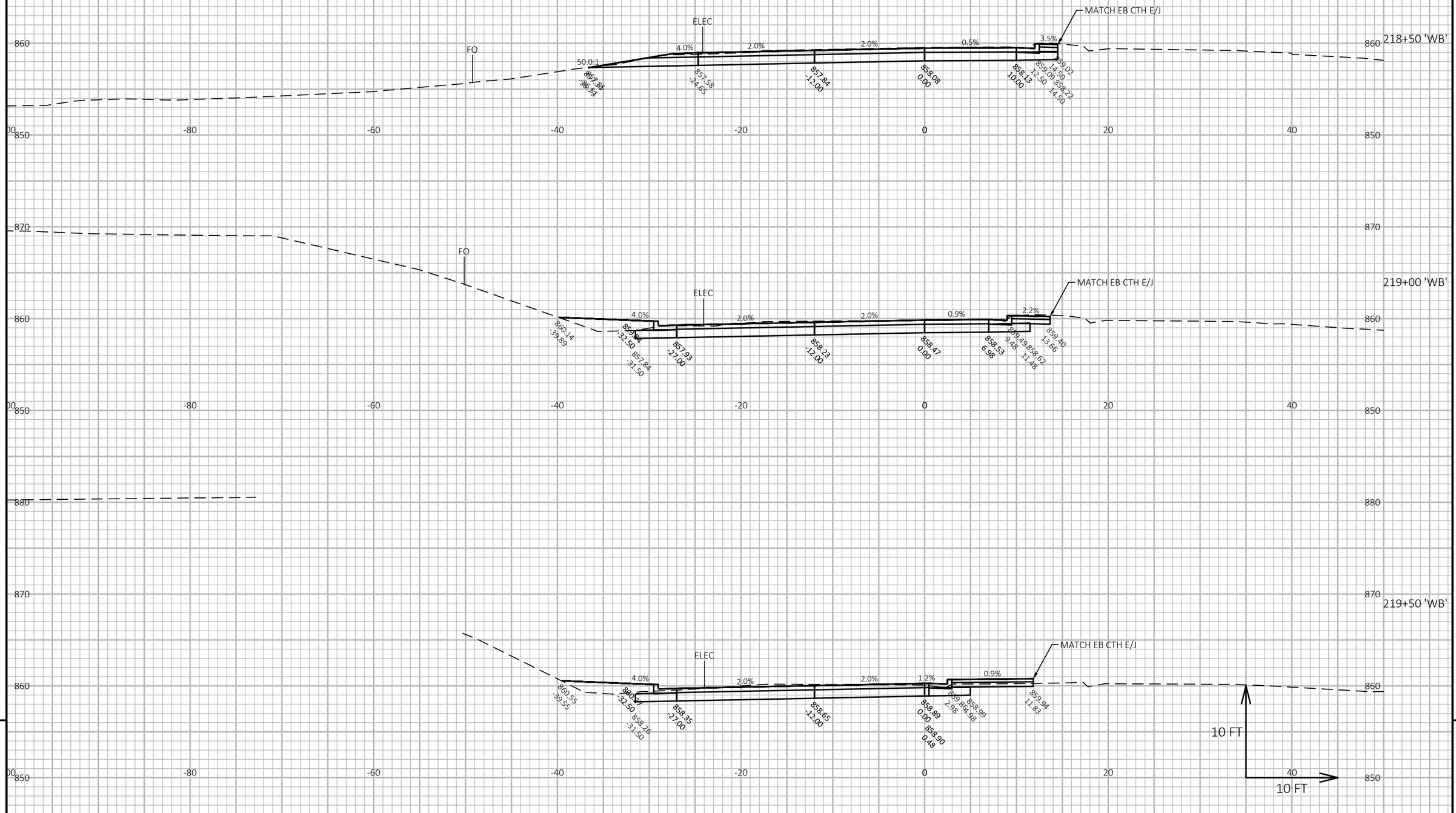
PROJECT NO: 1166-04-85	HWY: IH 39	COUNTY: MARQUETTE	CROSS SECTIONS: CTH E/J WB	SHEET 439	E

FILE NAME : G:\00\00093\00093777\CADD\SHEETSPLAN\090203-XS.DWG
LAYOUT NAME - 09

PLOT DATE : 6/25/2025 4:01 PM PLOT BY : SHAWN DOLENS PLOT NAME : **PLOT SCALE :** 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49

RIGHT OF WAY (R/W) IS BEYOND EXTENTS OF THE CROSS SECTIONS. SEE PLANS FOR R/W LIMITS



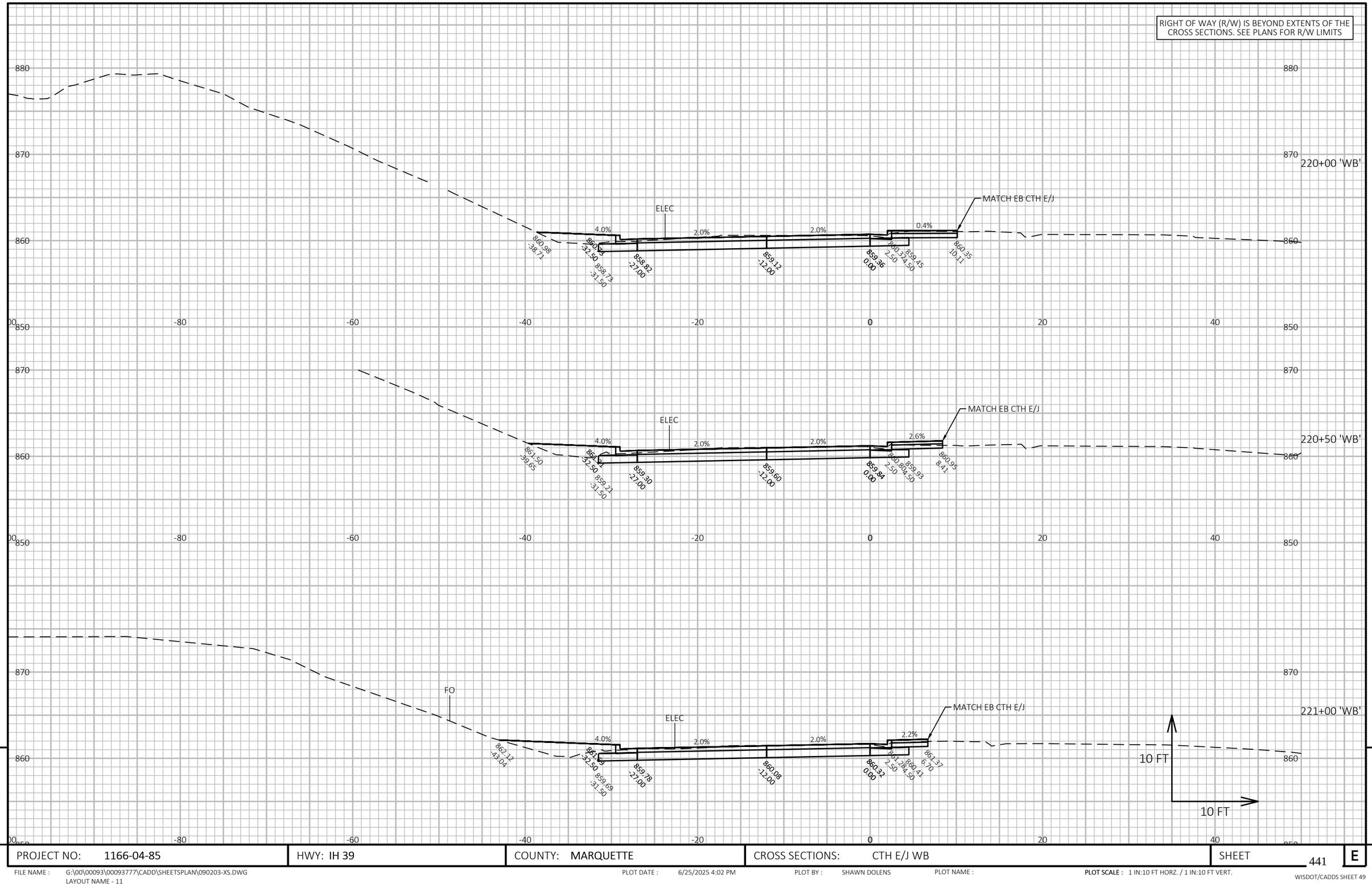
PROJECT NO: 1166-04-85	HWY: IH 39	COUNTY: MARQUETTE	CROSS SECTIONS: CTH E/J WB	SHEET 440	E

FILE NAME : G:\00\00093\00093777\CADD\SHEETSPLAN\090203-XS.DWG
LAYOUT NAME - 10

PLOT DATE : 6/25/2025 4:02 PM PLOT BY : SHAWN DOLENS PLOT NAME : PLOT SCALE : 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49

RIGHT OF WAY (R/W) IS BEYOND EXTENTS OF THE CROSS SECTIONS. SEE PLANS FOR R/W LIMITS



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PROJECT NO: 1166-04-85	HWY: IH 39	COUNTY: MARQUETTE	CROSS SECTIONS: CTH E/J WB	SHEET 441	E

FILE NAME : G:\00\00093\00093777\CADD\SHEETSPLAN\090203-XS.DWG
LAYOUT NAME - 11

PLOT DATE : 6/25/2025 4:02 PM

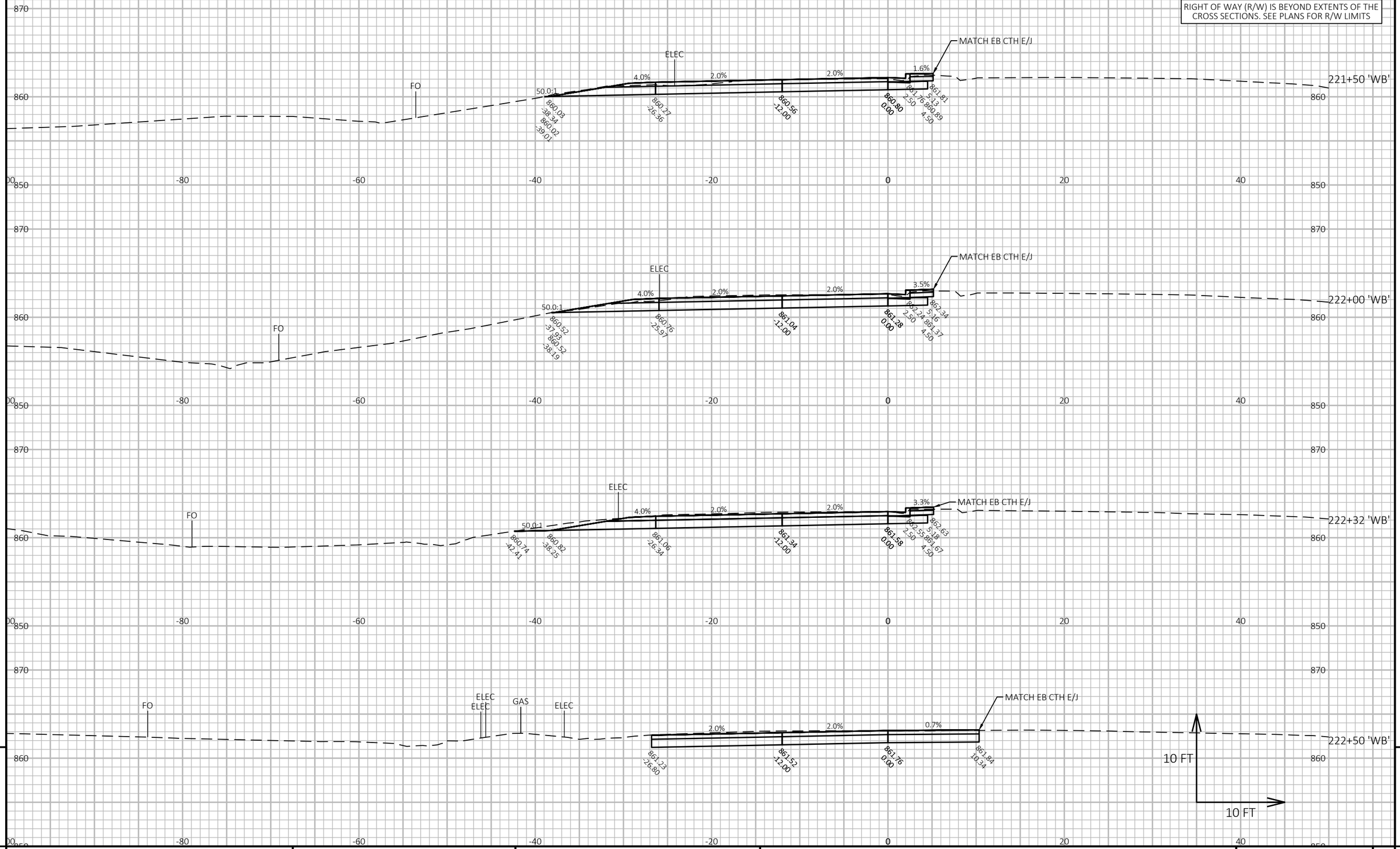
PLOT BY : SHAWN DOLENS

PLOT NAME :

PLOT SCALE : 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49

RIGHT OF WAY (R/W) IS BEYOND EXTENTS OF THE CROSS SECTIONS. SEE PLANS FOR R/W LIMITS



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PROJECT NO: 1166-04-85	HWY: IH 39	COUNTY: MARQUETTE	CROSS SECTIONS: CTH E/J WB	SHEET 442	E

FILE NAME : G:\00\00093\00093777\CADD\SHEETSPLAN\090203-XS.DWG
LAYOUT NAME - 12

PLOT DATE : 6/25/2025 4:02 PM

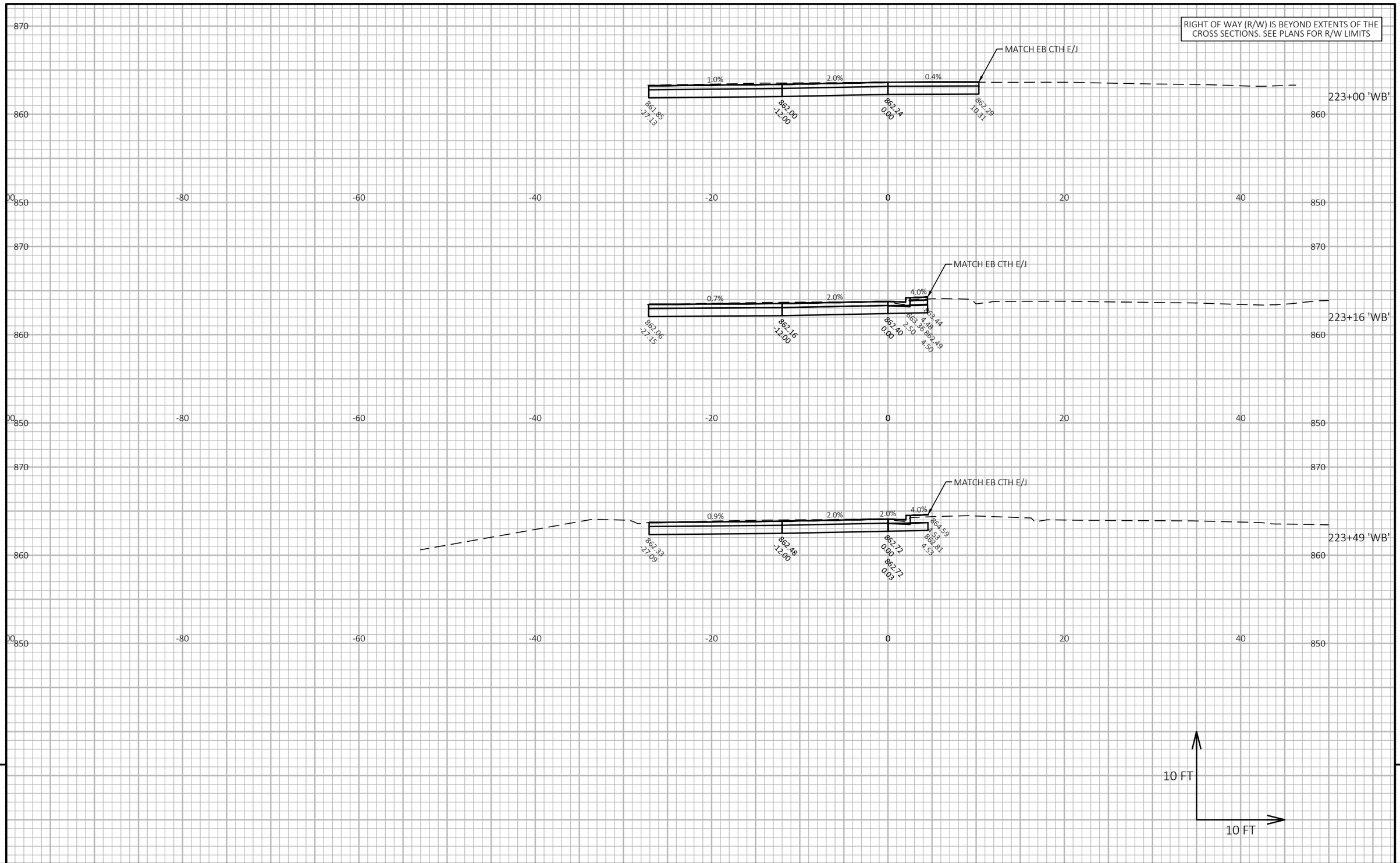
PLOT BY : SHAWN DOLENS

PLOT NAME :

PLOT SCALE : 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49

RIGHT OF WAY (R/W) IS BEYOND EXTENTS OF THE CROSS SECTIONS. SEE PLANS FOR R/W LIMITS



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PROJECT NO: 1166-04-85	HWY: IH 39	COUNTY: MARQUETTE	CROSS SECTIONS: CTH E/J WB	SHEET 443	E

FILE NAME : G:\00\00093\00093777\CADD\SHEETSPLAN\090203-XS.DWG
LAYOUT NAME - 13

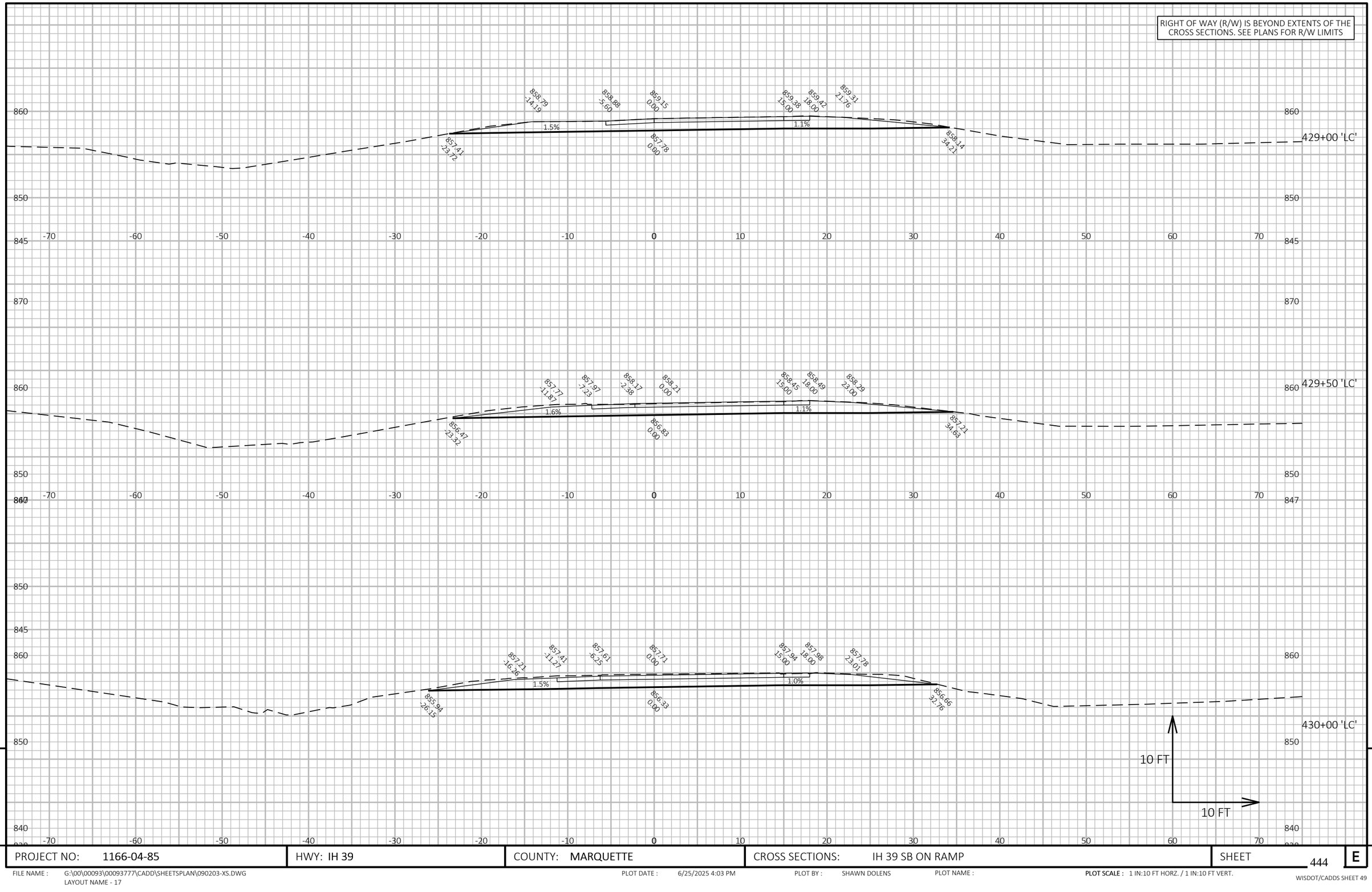
PLOT DATE : 6/25/2025 4:03 PM

PLOT BY : SHAWN DOLENS

PLOT NAME :

PLOT SCALE : 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

RIGHT OF WAY (R/W) IS BEYOND EXTENTS OF THE CROSS SECTIONS. SEE PLANS FOR R/W LIMITS



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PROJECT NO: 1166-04-85	HWY: IH 39	COUNTY: MARQUETTE	CROSS SECTIONS: IH 39 SB ON RAMP	SHEET 444	E

FILE NAME : G:\00\00093\00093777\CADD\SHEETSPLAN\090203-XS.DWG
LAYOUT NAME - 17

PLOT DATE : 6/25/2025 4:03 PM

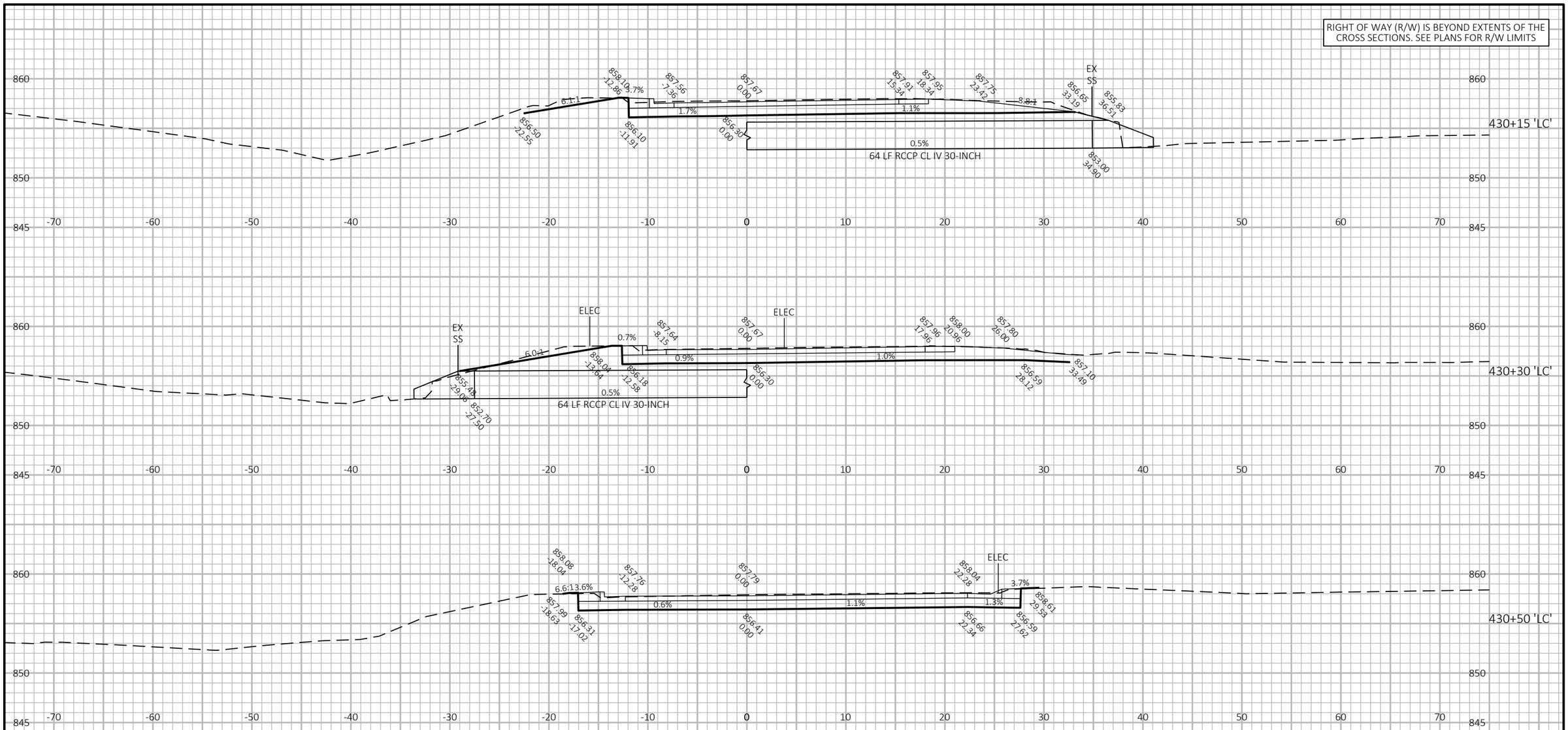
PLOT BY : SHAWN DOLENS

PLOT NAME :

PLOT SCALE : 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49

RIGHT OF WAY (R/W) IS BEYOND EXTENTS OF THE CROSS SECTIONS. SEE PLANS FOR R/W LIMITS



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PROJECT NO: 1166-04-85	HWY: IH 39	COUNTY: MARQUETTE	CROSS SECTIONS: IH 39 SB ON RAMP	SHEET 445	E

FILE NAME : G:\00\00093\00093777\CADD\SHEETSPLAN\090203-XS.DWG
LAYOUT NAME - 18

PLOT DATE : 6/25/2025 4:03 PM

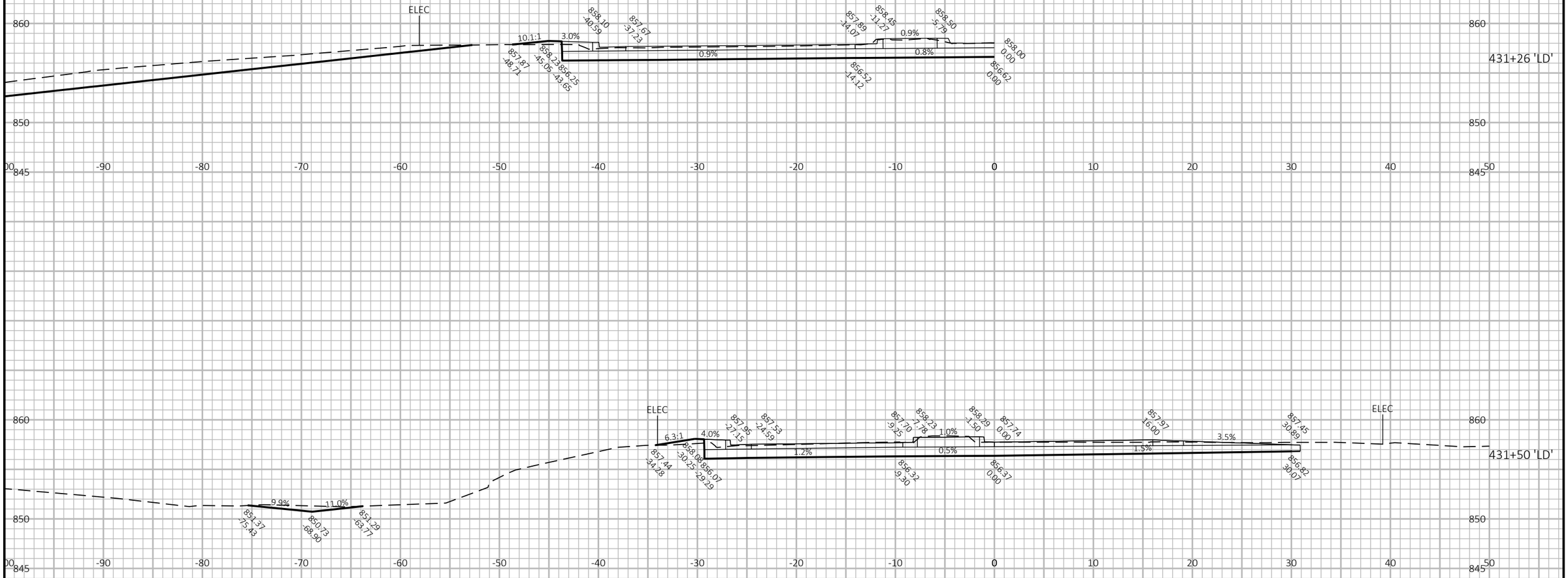
PLOT BY : SHAWN DOLENS

PLOT NAME :

PLOT SCALE : 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49

RIGHT OF WAY (R/W) IS BEYOND EXTENTS OF THE CROSS SECTIONS. SEE PLANS FOR R/W LIMITS



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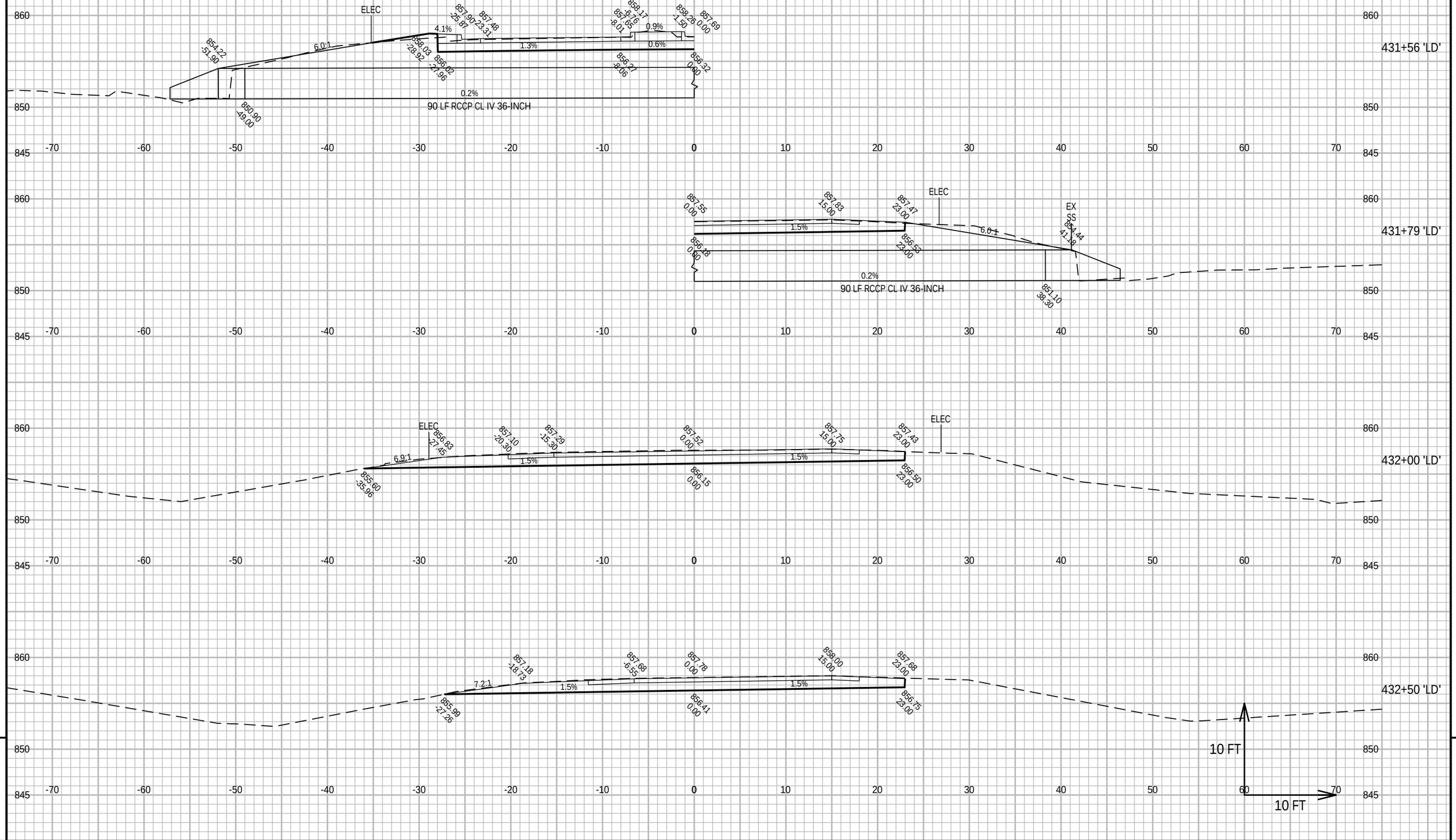
PROJECT NO: 1166-04-85	HWY: IH 39	COUNTY: MARQUETTE	CROSS SECTIONS: IH 39 SB OFF RAMP	SHEET 446	E

FILE NAME : G:\00\00093\00093777\CADD\SHEETSPLAN\090203-XS.DWG
LAYOUT NAME - 19

PLOT DATE : 6/25/2025 4:03 PM PLOT BY : SHAWN DOLENS PLOT NAME : PLOT SCALE : 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49

RIGHT OF WAY (R/W) IS BEYOND EXTENTS OF THE CROSS SECTIONS. SEE PLANS FOR R/W LIMITS



PROJECT NO: 1166-04-85	HWY: IH 39	COUNTY: MARQUETTE	CROSS SECTIONS: IH 39 SB OFF RAMP	SHEET 447	E

FILE NAME : G:\00\00093\00093777\CADD\SHEETSPLAN\090203-XS.DWG
LAYOUT NAME - 20

PLOT DATE : 5/3/2026 6:59 AM

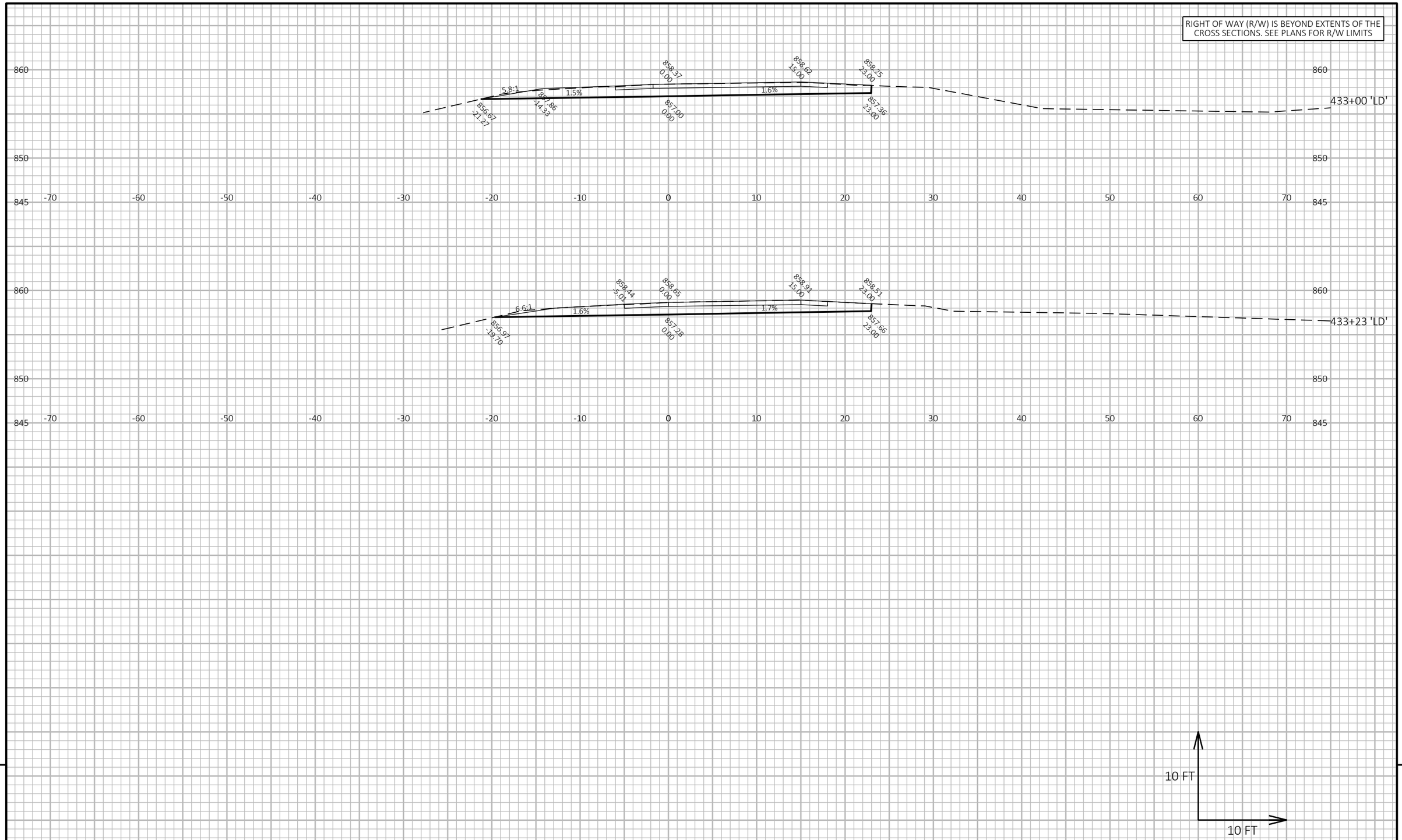
PLOT BY : SHAWN DOLENS

PLOT NAME :

PLOT SCALE : 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49

RIGHT OF WAY (R/W) IS BEYOND EXTENTS OF THE CROSS SECTIONS. SEE PLANS FOR R/W LIMITS



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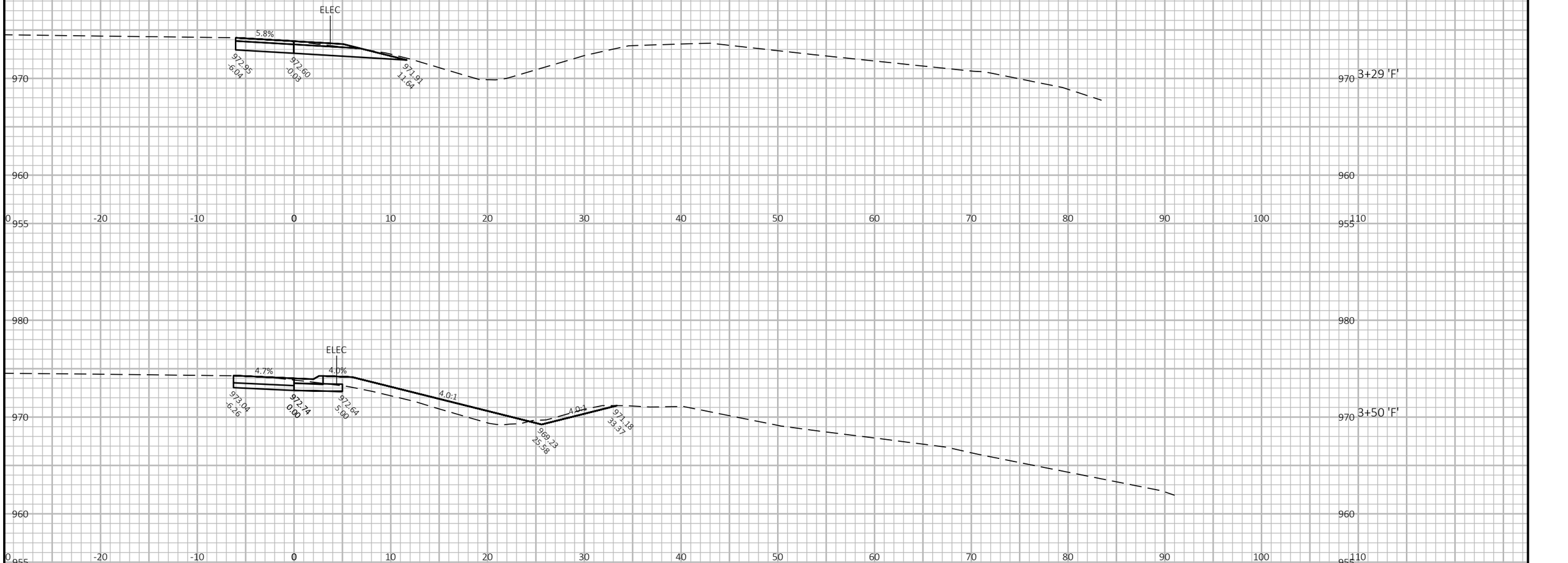
PROJECT NO: 1166-04-85	HWY: IH 39	COUNTY: MARQUETTE	CROSS SECTIONS: IH 39 SB OFF RAMP	SHEET 448	E

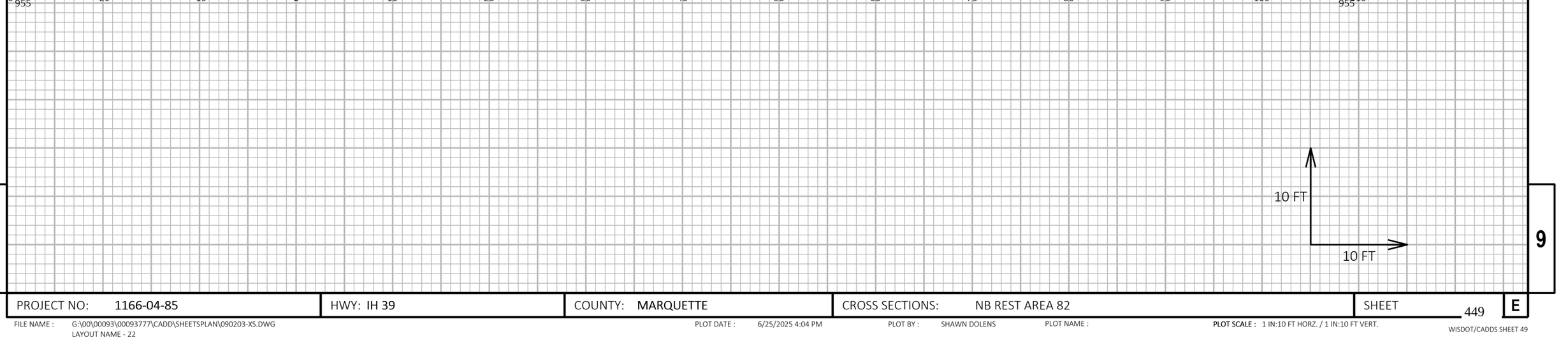
FILE NAME : G:\00\00093\00093777\CADD\SHEETSPLAN\090203-XS.DWG
LAYOUT NAME - 21

PLOT DATE : 6/25/2025 4:04 PM PLOT BY : SHAWN DOLENS PLOT NAME : PLOT SCALE : 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49

RIGHT OF WAY (R/W) IS BEYOND EXTENTS OF THE CROSS SECTIONS. SEE PLANS FOR R/W LIMITS





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10 FT

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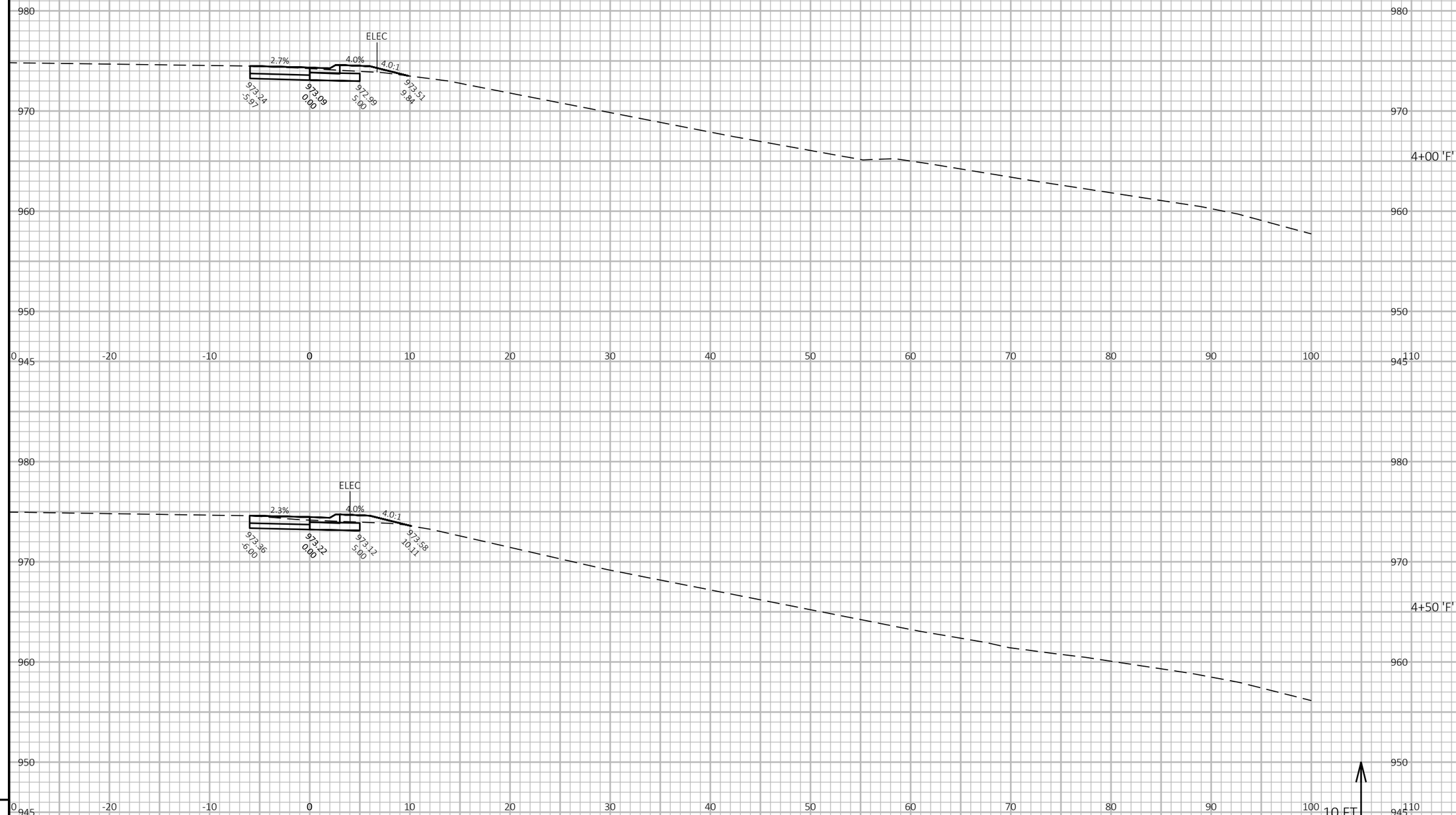
PROJECT NO: 1166-04-85	HWY: IH 39	COUNTY: MARQUETTE	CROSS SECTIONS: NB REST AREA 82	SHEET 449	E

FILE NAME : G:\00\00093\00093777\CADD\SHEETSPLAN\090203-XS.DWG
LAYOUT NAME - 22

PLOT DATE : 6/25/2025 4:04 PM PLOT BY : SHAWN DOLENS PLOT NAME : PLOT SCALE : 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49

RIGHT OF WAY (R/W) IS BEYOND EXTENTS OF THE CROSS SECTIONS. SEE PLANS FOR R/W LIMITS



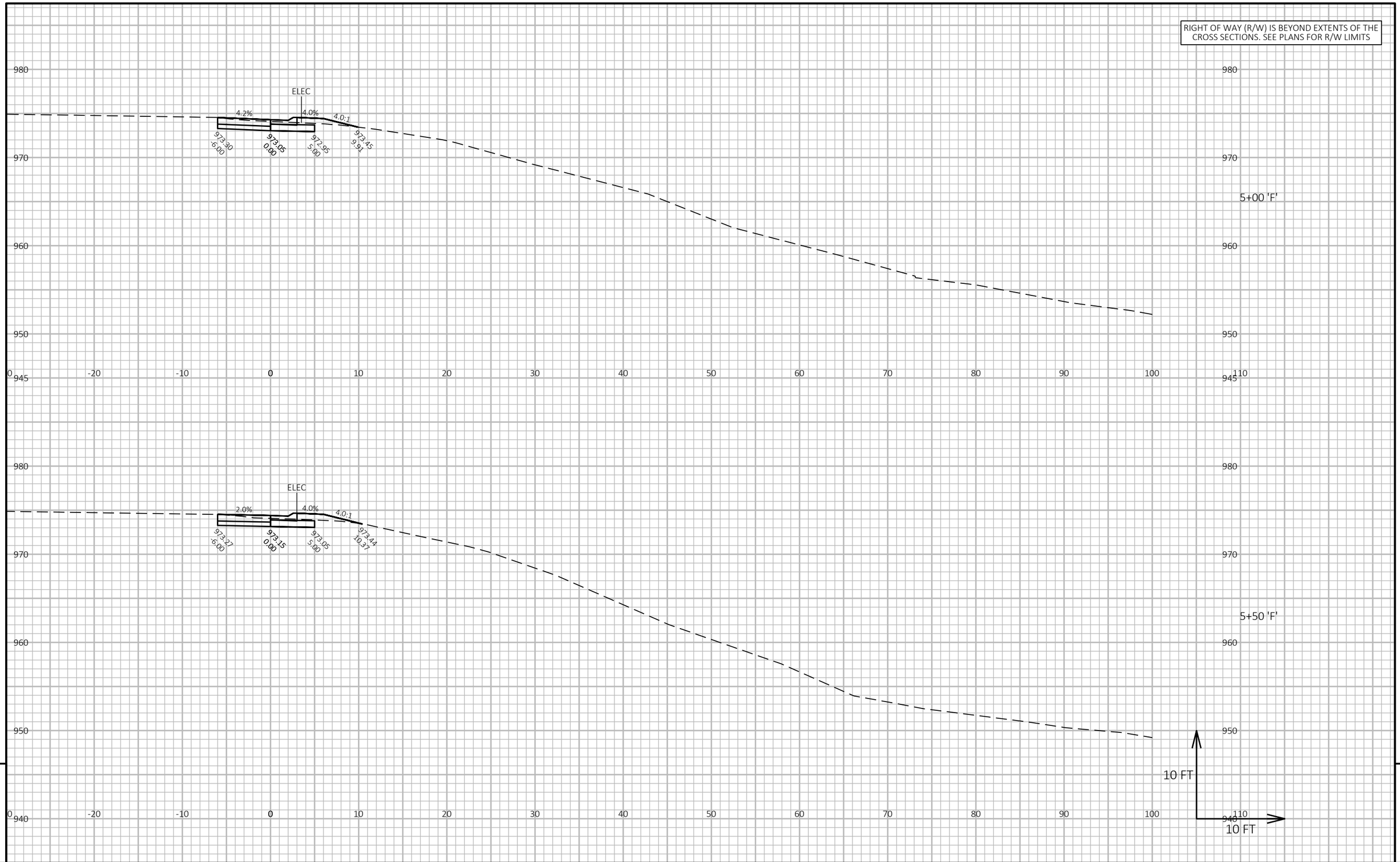
PROJECT NO: 1166-04-85	HWY: IH 39	COUNTY: MARQUETTE	CROSS SECTIONS: NB REST AREA 82	SHEET 450	E

FILE NAME : G:\00\00093\00093777\CADD\SHEETSPLAN\090203-XS.DWG
LAYOUT NAME - 23

PLOT DATE : 6/25/2025 4:05 PM PLOT BY : SHAWN DOLENS PLOT NAME : PLOT SCALE : 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49

RIGHT OF WAY (R/W) IS BEYOND EXTENTS OF THE CROSS SECTIONS. SEE PLANS FOR R/W LIMITS



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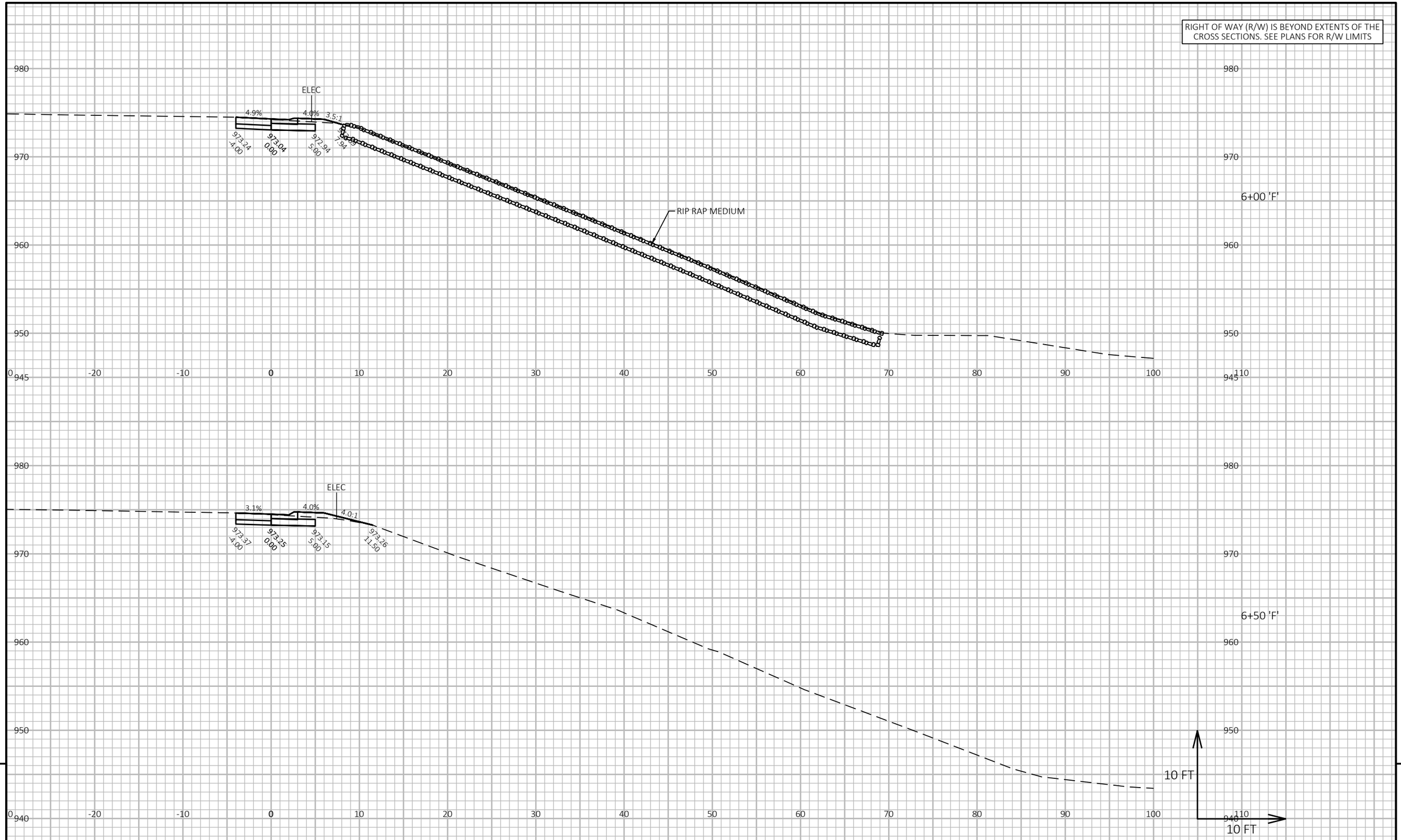
PROJECT NO: 1166-04-85	HWY: IH 39	COUNTY: MARQUETTE	CROSS SECTIONS: NB REST AREA 82	SHEET 451	E

FILE NAME : G:\00\00093\00093777\CADD\SHEETSPLAN\090203-XS.DWG
LAYOUT NAME - 24

PLOT DATE : 6/25/2025 4:05 PM PLOT BY : SHAWN DOLENS PLOT NAME : PLOT SCALE : 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

RIGHT OF WAY (R/W) IS BEYOND EXTENTS OF THE CROSS SECTIONS. SEE PLANS FOR R/W LIMITS



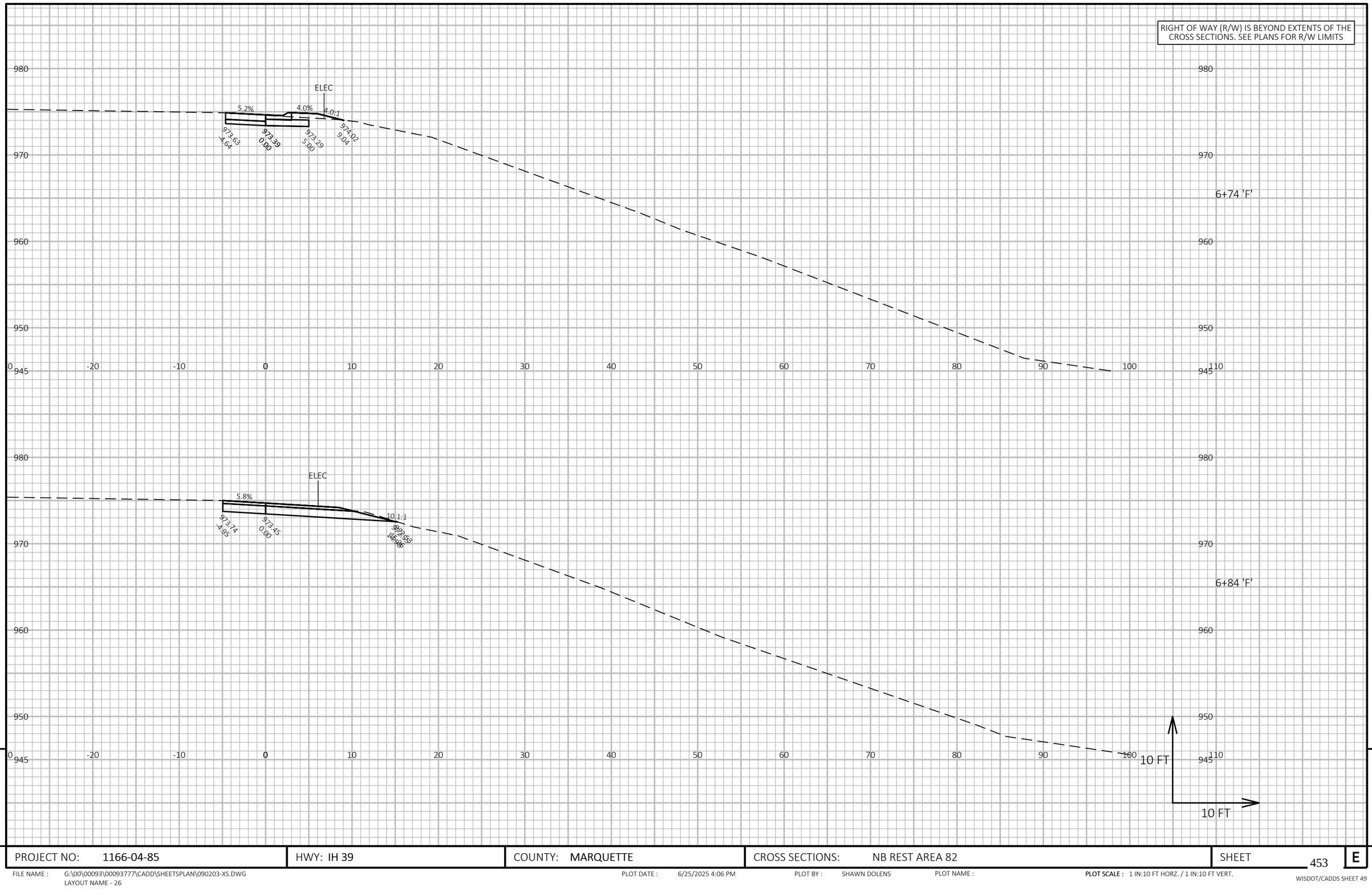
PROJECT NO: 1166-04-85	HWY: IH 39	COUNTY: MARQUETTE	CROSS SECTIONS: NB REST AREA 82	SHEET 452	E

FILE NAME : G:\00\00093\00093777\CADD\SHEETSPLAN\090203-XS.DWG
LAYOUT NAME - 25

PLOT DATE : 6/25/2025 4:05 PM PLOT BY : SHAWN DOLENS PLOT NAME : PLOT SCALE : 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49

RIGHT OF WAY (R/W) IS BEYOND EXTENTS OF THE CROSS SECTIONS. SEE PLANS FOR R/W LIMITS



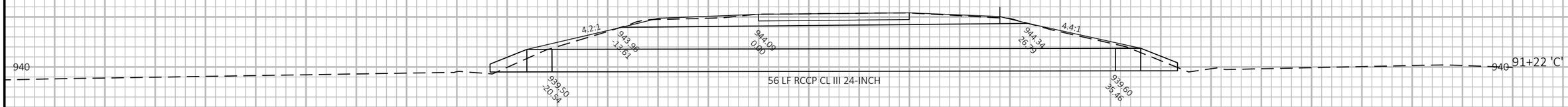
PROJECT NO: 1166-04-85	HWY: IH 39	COUNTY: MARQUETTE	CROSS SECTIONS: NB REST AREA 82	SHEET 453	E

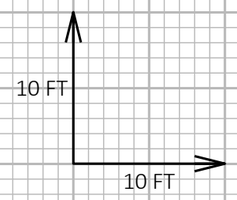
FILE NAME : G:\00\00093\00093777\CADD\SHEETSPLAN\090203-XS.DWG
LAYOUT NAME - 26

PLOT DATE : 6/25/2025 4:06 PM PLOT BY : SHAWN DOLENS PLOT NAME : PLOT SCALE : 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49

RIGHT OF WAY (R/W) IS BEYOND EXTENTS OF THE CROSS SECTIONS. SEE PLANS FOR R/W LIMITS





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PROJECT NO: 1166-04-85	HWY: IH 39	COUNTY: MARQUETTE	CROSS SECTIONS: SB REST AREA 81	SHEET 454	E

FILE NAME : G:\00\00093\00093777\CADD\SHEETSPLAN\090203-XS.DWG
LAYOUT NAME - 27

PLOT DATE : 6/25/2025 4:06 PM PLOT BY : SHAWN DOLENS PLOT NAME :

PLOT SCALE : 1 IN:10 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49

Notes

Wisconsin Department of Transportation

Dedicated people creating transportation solutions
through innovation and exceptional service.

http://www.dot.wisconsin.gov