

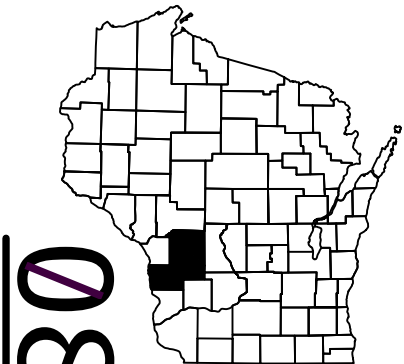
LAX
PROJECT ID: 5130-02-62
WITH: N/A
COUNTY: MONROE & VERNON

NOVEMBER 2017

ORDER OF SHEETS

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

TOTAL SHEETS = 110



DESIGN DESIGNATION

A.A.D.T.	2017	=	1500
A.A.D.T.	2037	=	1800
D.H.V.		=	1080
D.D.		=	60/40
T.		=	8.3%
DESIGN SPEED		=	60 MPH
ESALS		=	650,000

CONVENTIONAL SYMBOLS

PLAN

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

PROFILE

GRADE LINE	
ORIGINAL GROUND	
MARSH OR ROCK PROFILE (To be noted as such)	
SPECIAL DITCH	
GRADE ELEVATION	
CULVERT (Profile View)	
UTILITIES	
ELECTRIC	
FIBER OPTIC	
GAS	
SANITARY SEWER	
STORM SEWER	
TELEPHONE	
WATER	
UTILITY PEDESTAL	
POWER POLE	
TELEPHONE POLE	

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

PLAN OF PROPOSED IMPROVEMENT

ONTARIO - TOMAH
.01MI N STH 33 TO MIDWAY AVE
STH 131
MONROE & VERNON COUNTIES

STATE PROJECT NUMBER
5130-02-62

EXCEPTION TO NET CENTERLINE LENGTH
STA 287+75.83 - STA 289+45.27
STRUCTURE B-41-144

EXCEPTION TO NET CENTERLINE LENGTH
STA 265+06.56 - STA 266+65.76
STRUCTURE B-41-143

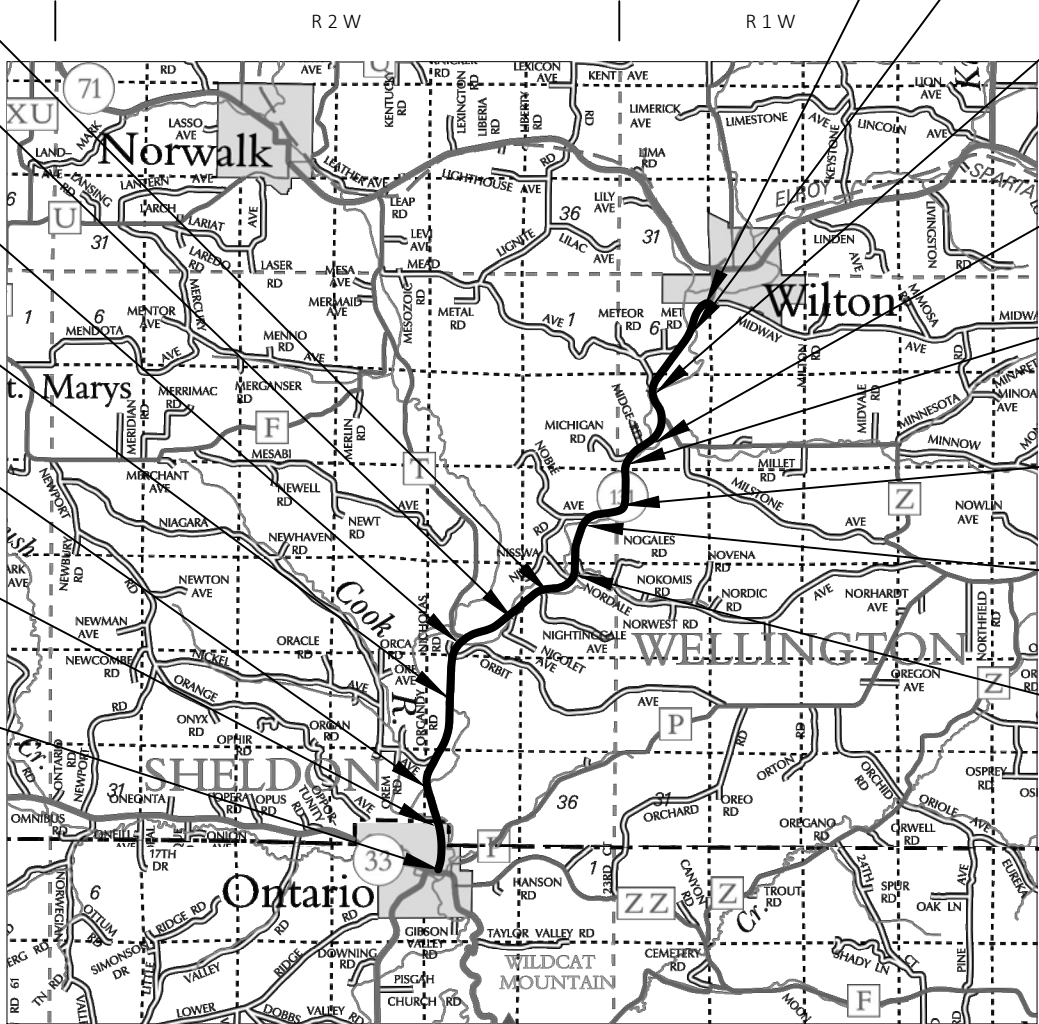
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STA 232+22.64 - STA 234+10.79
STRUCTURE B-41-140

EXCEPTION TO NET CENTERLINE LENGTH
STA 195+45.84 - STA 197+77.89
STRUCTURE B-41-139

EXCEPTION TO NET CENTERLINE LENGTH
STA 147+23.60 - STA 149+42.41
STRUCTURE B-41-138

EXCEPTION TO NET CENTERLINE LENGTH
STA 129+68.66 - STA 131+76.86
STRUCTURE B-41-141

BEGIN PROJECT
STA 100+20.00
Y = 298,610.097
X = 684,792.455



END PROJECT
STA 495+05.00

EXCEPTION TO NET CENTERLINE LENGTH
STA 474+18.75 - STA 475+30.32
STRUCTURE B-41-179

EXCEPTION TO NET CENTERLINE LENGTH
STA 434+09.84 - STA 435+25.51
STRUCTURE B-41-178

EXCEPTION TO NET CENTERLINE LENGTH
STA 405+26.96 - STA 406+34.72
STRUCTURE B-41-177

EXCEPTION TO NET CENTERLINE LENGTH
STA 386+52.53 - STA 387+72.57
STRUCTURE B-41-176

EXCEPTION TO NET CENTERLINE LENGTH
STA 361+81.38 - STA 362+93.49
STRUCTURE B-41-175

EXCEPTION TO NET CENTERLINE LENGTH
STA 338+20.03 - STA 339+37.97
STRUCTURE B-41-174

EXCEPTION TO NET CENTERLINE LENGTH
STA 307+11.08 - STA 308+87.62
STRUCTURE B-41-145

LAYOUT
SCALE 0 2 MI

TOTAL NET LENGTH OF CENTERLINE = 7.092 MI.
VERNON CO. = 0.535 MI.
MONROE CO. = 6.557 MI.

HORIZONTAL POSITIONS SHOWN ON THIS PLAN ARE WISCONSIN COUNTY COORDINATES, MONROE COUNTY, NAD83 (2011), IN U.S. SURVEY FEET. VALUES ARE GRID COORDINATES, GRID BEARINGS, AND GRID DISTANCES. GRID DISTANCES MAY BE USED AS GROUND DISTANCES.

MONROE COUNTY
VERNON COUNTY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

PREPARED BY	SHANE SEDLMAYR
Surveyor	
Designer	JAY ADAMS, PE, PLS
Project Manager	TODD WALDO, PE
Regional Examiner	TIM MAEDKE, PE
Regional Supervisor	REINY YAHNKE, PE

APPROVED FOR THE DEPARTMENT
DATE: 6/30/2017 Todd Waldo (Signature)

E

GENERAL NOTES

- THERE ARE UTILITY FACILITIES WITHIN THE PROJECT AREA THAT ARE NOT SHOWN ON THE PLANS. THE CONTRACTOR SHALL COORDINATE HIS CONSTRUCTION ACTIVITIES WITH A CALL TO DIGGERS HOTLINE AND/OR A DIRECT CALL TO THE UTILITIES THAT HAVE FACILITIES IN THE AREA. NOT ALL UTILITIES ARE MEMBERS OF DIGGERS HOTLINE.
- PRIOR TO THE PLACEMENT OF MGS GUARDRAIL, THE SHOULDERS SHALL BE IN PLACE, SHAPED AND COMPACTED UNLESS SHOWN OTHERWISE.
- THE CONTRACTOR'S PAVING OPERATIONS SHALL BE CONSISTENT WITH THE PLAN TYPICAL SECTIONS AND CONSTRUCTED TO PREVENT HMA LONGITUDINAL JOINTS FROM BEING LOCATED WITHIN A DRIVING, TURNING, BIKE OR PARKING LANE.
- HMA PAVEMENT WEIGHT CALCULATIONS ARE BASED ON 112 LB/SY/IN.
- 2-INCH HMA PAVEMENT TYPE 4 LT 58-28 S SHALL BE CONSTRUCTED IN A SINGLE LAYER. 3.5-INCH HMA PAVEMENT TYPE 4 LT 58-28 S SHALL BE CONSTRUCTED WITH A 2-INCH UPPER LAYER AND 1.5-INCH LOWER LAYER.
- CONTRACTOR WILL BE RESPONSIBLE FOR RESHAPING AND SEEDING ANY PREVIOUSLY GRASSED AREAS WHICH ARE DISTURBED BY HIS OPERATION OUTSIDE OF THE NORMAL CONSTRUCTION LIMITS.

STANDARD ABBREVIATIONS

AGG	AGGREGATE	LC.	LONG CHORD
<	ANGLE	LS	LUMP SUM
ASPH.	ASPHALTIC	M.P.	MARKER POST
A.D.T.	AVERAGE DAILY TRAFFIC	MGAL	1000 GALLONS
A.A.D.T.	ANNUAL AVERAGE DAILY TRAFFIC	N.C.	NORMAL CROWN
C/L	CENTER LINE	N	NORTH
Δ	CENTRAL ANGLE OR DELTA	NOR	NORMAL
C.E.	COMMERCIAL ENTRANCE	NO.	NUMBER
CONST.	CONSTRUCTION	PAV'T	PAVEMENT
CO.	COUNTY	P.C.	POINT OF CURVATURE
CTH	COUNTY TRUNK HIGHWAY	P.I.	POINT OF INTERSECTION
CR.	CREEK	P.T.	POINT OF TANGENCY
CABC	CRUSHED AGGREGATE BASE COURSE	PCC	PORTLAND CEMENT CONCRETE
CY	CUBIC YARD	P.E.	PRIVATE ENTRANCE
CP	CONTROL POINT OR CULVERT PIPE	R	RADIUS OR RANGE
C&G	CURB AND GUTTER	R/L	REFERENCE LINE
D	DEGREE OF CURVE	REQ'D	REQUIRED
D.H.V.	DESIGN HOURLY VOLUME	RT	RIGHT
DIA.	DIAMETER	R/W	RIGHT OF WAY
D.D.	DIRECTIONAL DISTRIBUTION	RD.	ROAD
DMS	DYNAMIC MESSAGE SIGN	SHLD.	SHOULDER(S)
EA	EACH	S	SOUTH
E	EAST	S.F.	SQUARE FOOT (FEET)
EL., ELEV.	ELEVATION	SDD	STANDARD DETAIL DRAWING(S)
ESALS	EQUIVALENT SINGLE AXLE LOADS	STH	STATE TRUNK HIGHWAY
EXC.	EXCAVATION	STA.	STATION
EXIST	EXISTING	S.E.	SUPERELEVATION
FERT.	FERTILIZER	SYM	SYMMETRICAL
F.E.	FIELD ENTRANCE	T.	PERCENT TRUCKS
F/L, F.L.	FLOW LINE	TEL.	TELEPHONE
CWT	HUNDRED WEIGHT	TEMP.	TEMPORARY
INL	INLET	T.O.C.	TOP OF CURB
INTER.	INTERSECTION	TYP	TYPICAL
JT.	JOINT	U.G.	UNDERGROUND (CABLE)
LT	LEFT	VAR	VARIABLE
L.	LENGTH OF CURVE	Wt.	WEIGHT
L.F.	LINEAR FOOT(FEET)	W	WEST

ORDER OF SECTION 2 SHEETS

GENERAL NOTES/WRITTEN MATERIAL
PROJECT OVERVIEW
TYPICAL SECTIONS
CONSTRUCTION DETAILS
SIGNING
TRAFFIC CONTROL AND CONSTRUCTION STAGING

DNR LIAISON

KAREN KALVELAGE
ENVIRONMENTAL ANALYSIS & REVIEW SPECIALIST
WISCONSIN DEPT. OF NATURAL RESOURCES
WEST CENTRAL REGION
3550 MORMON COULEE ROAD
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PHONE: 608-785-9115

DESIGN CONTACTS

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LA CROSSE, WI 54601
PHONE: 608-498-0185
EMAIL: JAY.ADAMS@DOT.WI.GOV

UTILITY CONTACTS

ALLIANT ENERTY - ELECTRICITY
CRAIG HENDRICKS
4902 N BILTMORE LANE
MADISON, WI 53718
(608) 458-8148
CRAIGHENDRICKS@ALLIANTENERGY.COM

MADISON GAS AND ELECTRIC COMPANY - GAS/PETROLEUM
JANE ROSSING
P.O. BOX 1231
MADISON, WI 53701-1231
(608) 252-7099
GROSSING@MGE.COM

CENTURY LINK - COMMUNICATION LINE
RYAN NIEMEIER
333 N FRONT ST
LA CROSSE, WI 54601
(608) 796-5190
RYAN.NIEMEIER@CENTURYLINK.COM

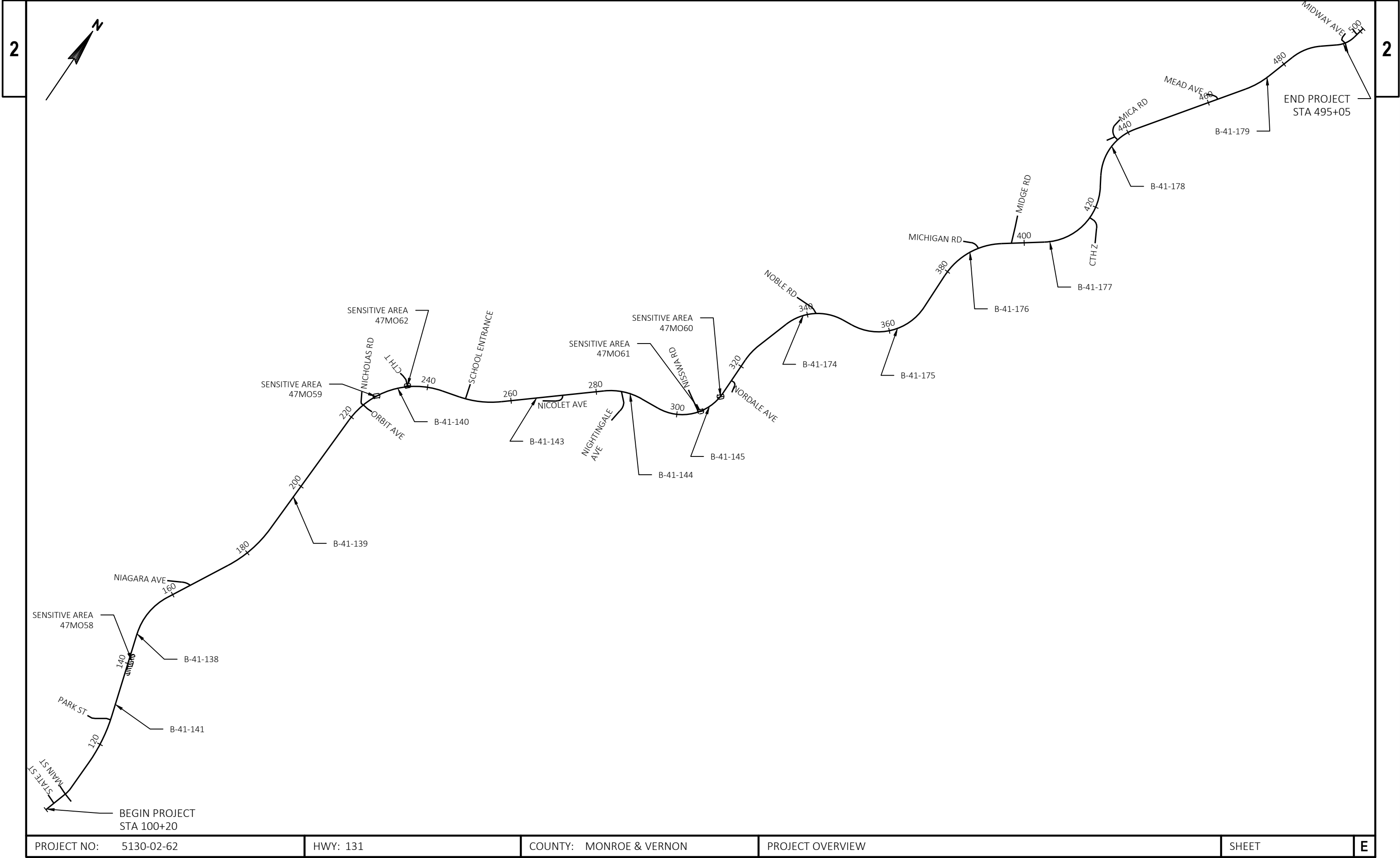
MEDIA COM WISCONSIN LLC - COMMUNICATION LINE
TIM ORCUTT
3033 ASBURY RD
DUBUQUE, IA 52001
(515) 249-5848
TORCUTT@MEDIACOMCC.COM

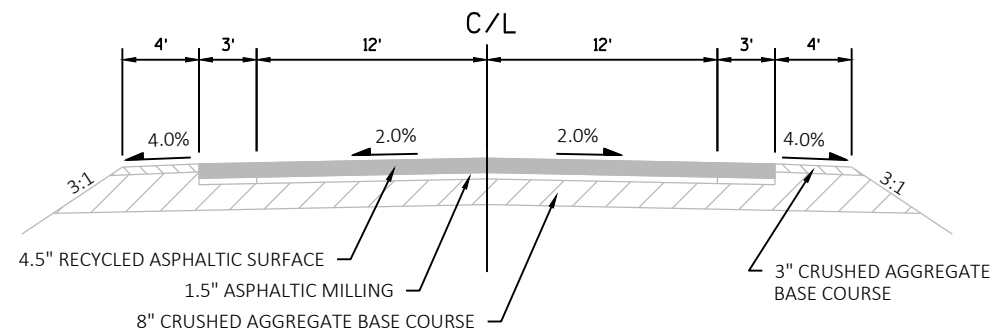
VILLAGE OF WILTON - WATER
LORI BRUEGGEN
400 EAST ST
P.O. BOX 70
WILTON, WI 54670
(608) 435-6666
VILLAGEOFWILTON@CENTURYTEL.NET



Dial  or (800) 242-8511

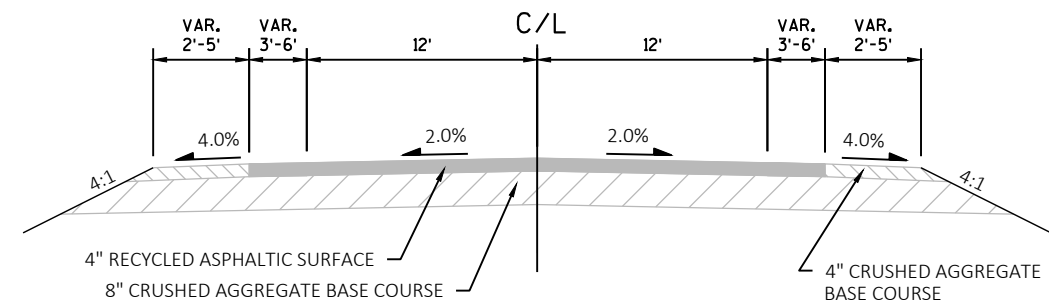
www.DiggersHotline.com





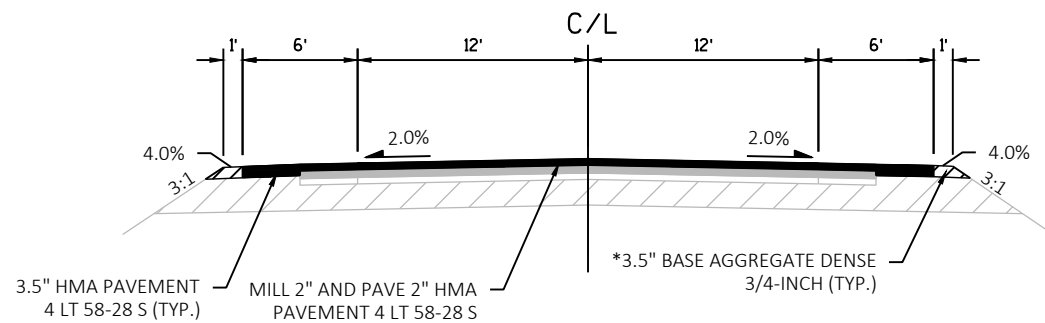
TYPICAL EXISTING SECTION STH 131

STA 100+20.00 TO STA 317+50.00



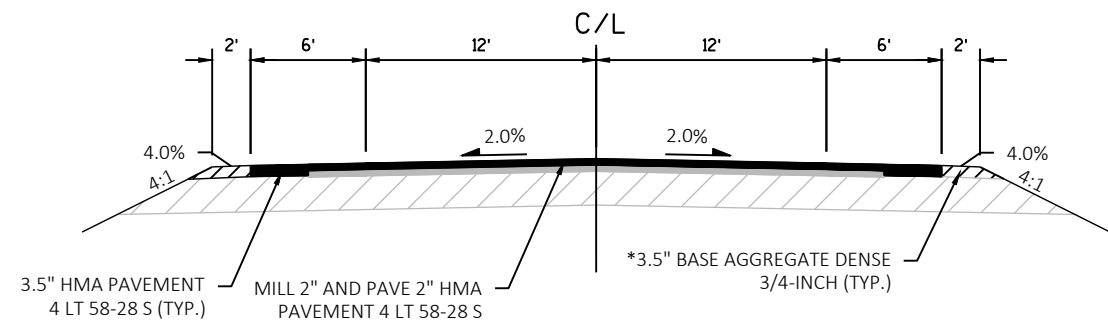
TYPICAL EXISTING SECTION STH 131

STA 317+50.00 TO STA 495+05.00



TYPICAL FINISHED SECTION STH 131

STA 100+20.00 TO STA 317+50.00



TYPICAL FINISHED SECTION STH 131

STA 317+50.00 TO STA 495+05.00

* EXISTING CRUSHED AGGREGATE BASE COURSE TO BE USED FOR BASE LEVELING BENEATH EXTENDED PAVED SHOULDER. EXCESS MATERIAL TO BE SALVAGED AND PLACED ON SHOULDERS. PAID FOR UNDER ITEM PREPARE FOUNDATION FOR ASPHALTIC SHOULDERS

NOTE:
IN AREAS WITH 6' SHOULDERS, CONTRACTOR SHALL PAVE ONE PASS 18' WIDE FROM CENTERLINE. IN AREAS OF GUARD RAIL, TURN LANES, AND WIDER SHOULDERS, CONTRACTOR TO MATCH EXISTING PAVING WIDTHS

GUARDRAIL THAT IS REMAINING IN PLACE, MILL/PAVE TO WITHIN 6" OF GUARDRAIL FACE

MILL ADDITIONAL 3' THRU SIDEROADS AND DRIVEWAYS FOR A TOTAL MILLING WIDTH OF 18' IN EACH LANE

USE A 10:1 TAPER WHEN CHANGING SHOULDER WIDTH, UNLESS NOTED ELSEWHERE

SUPERELEVATION RANGES FROM 2% TO 8%

PROJECT NO: 5130-02-62

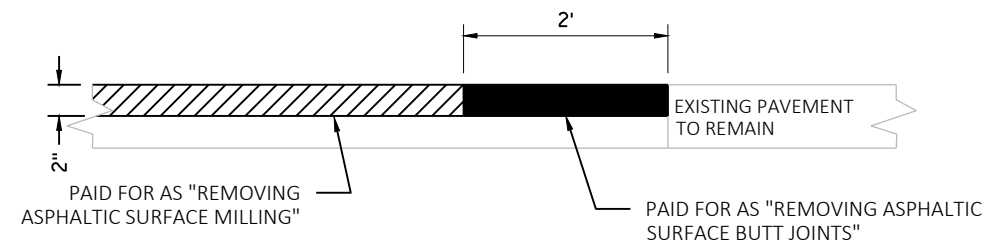
HWY: STH 131

COUNTY: MONROE & VERNON

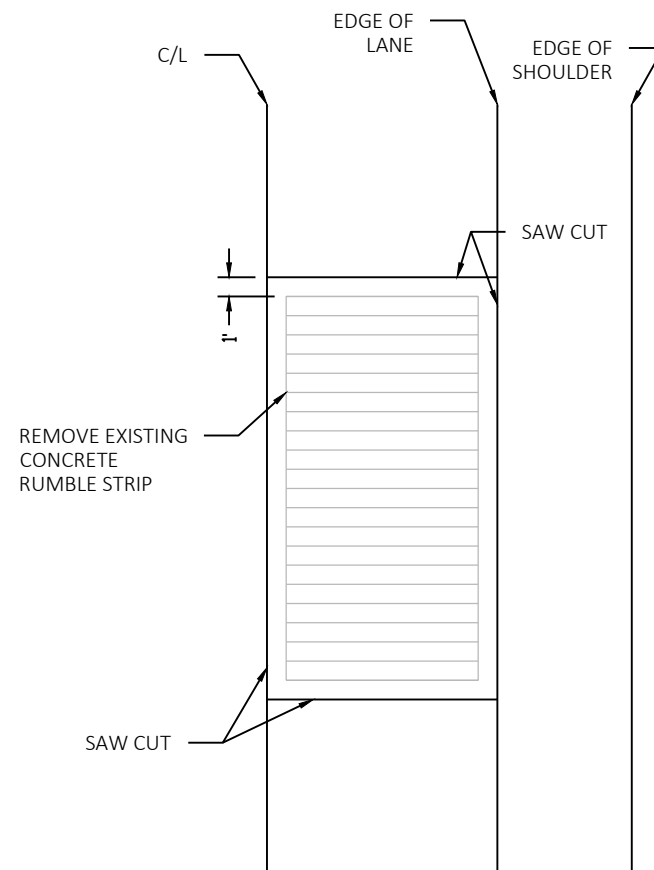
TYPICAL SECTIONS

SHEET

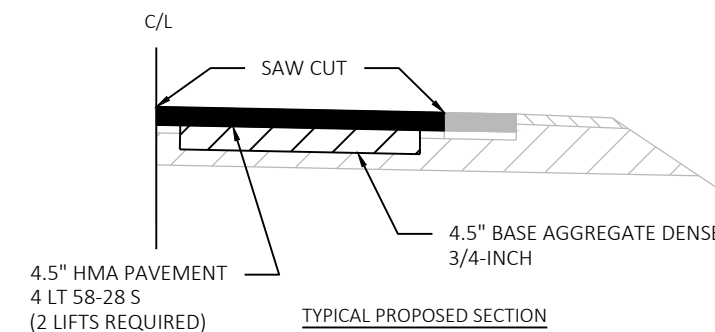
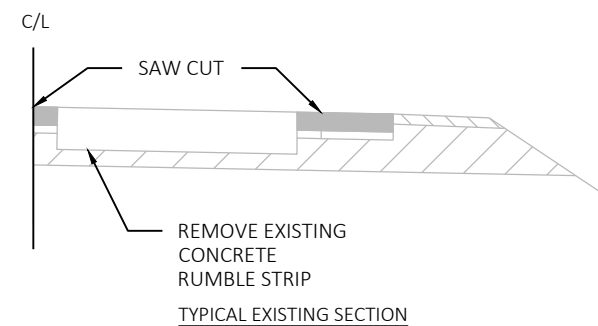
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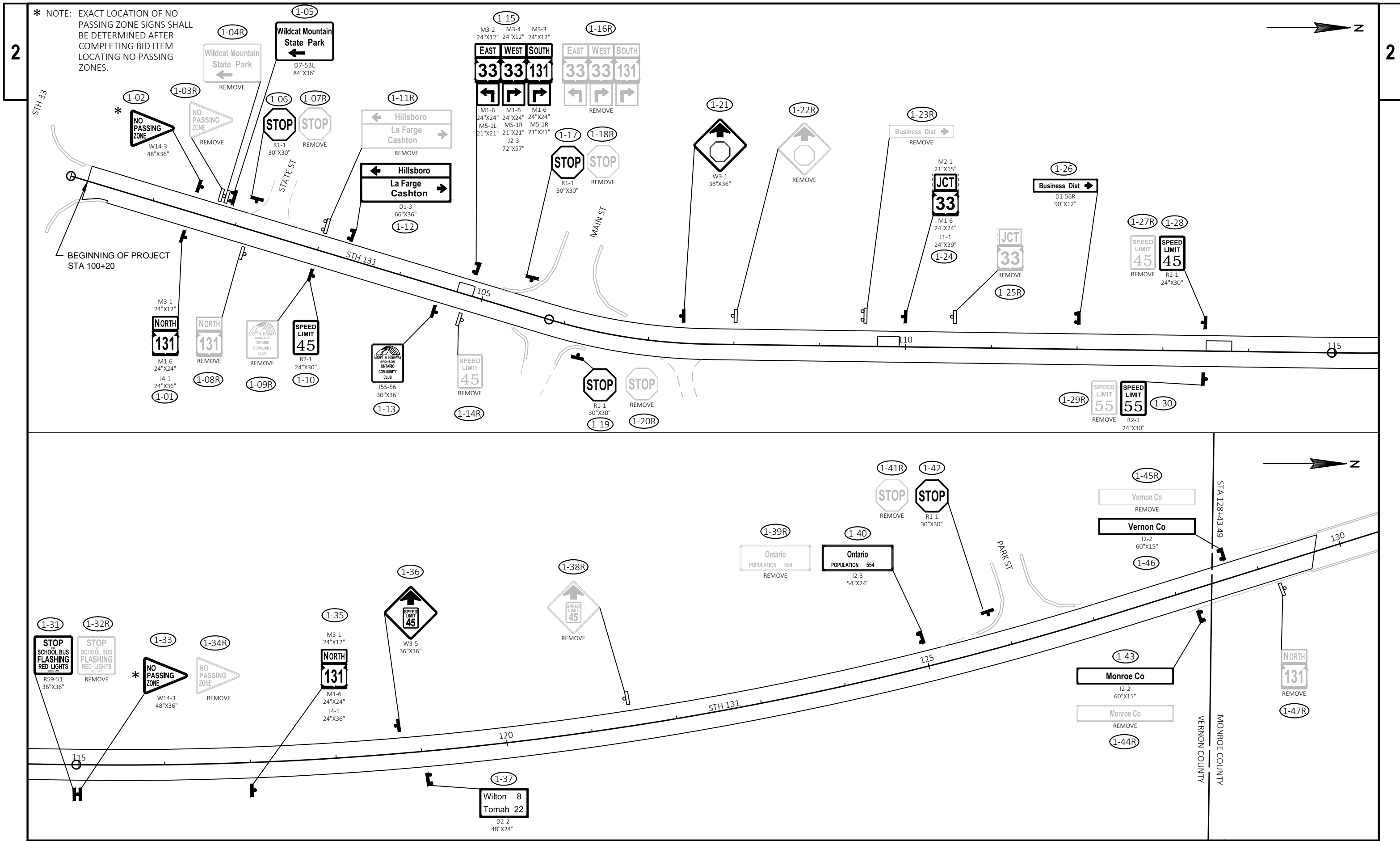
REMOVING ASPHALTIC SURFACE BUTT JOINTS DETAIL



PLAN VIEW



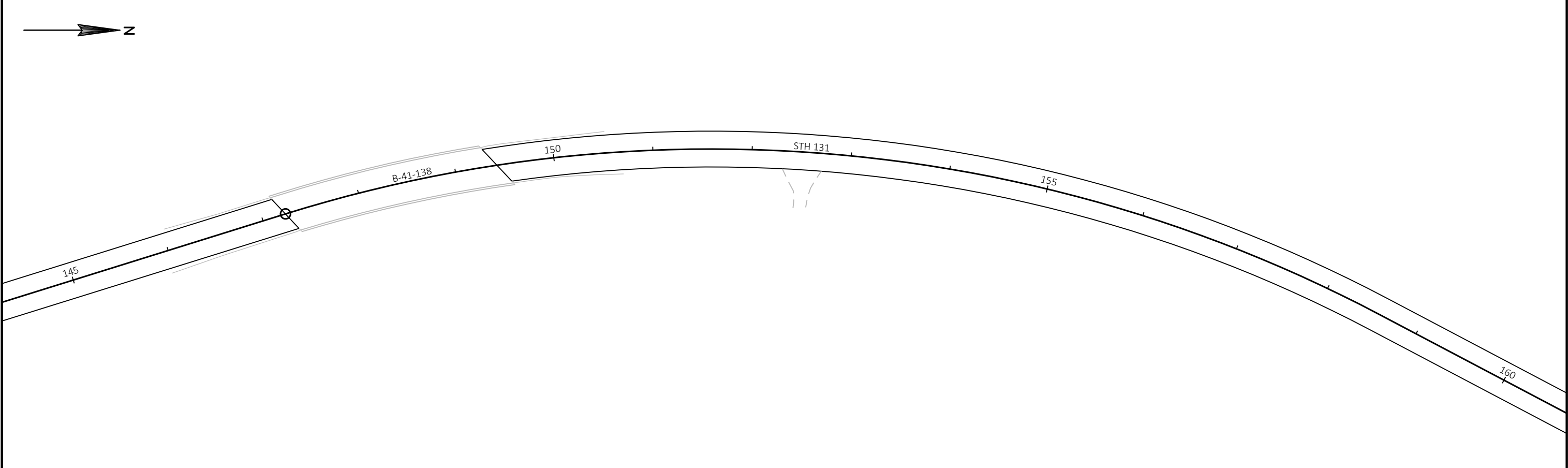
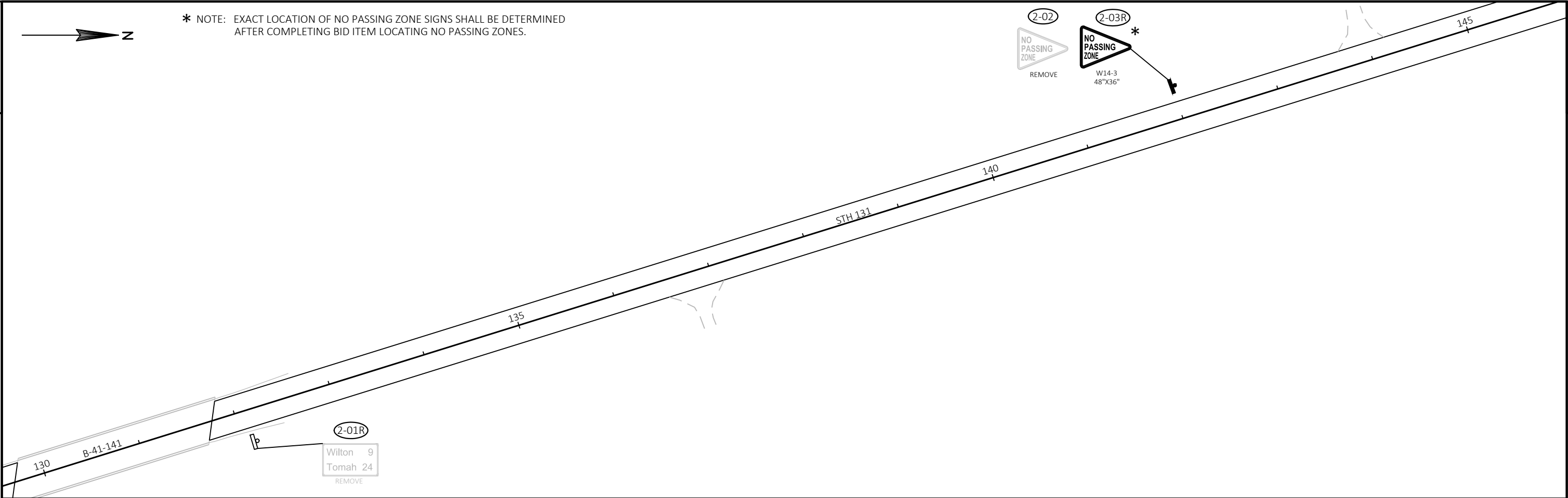
REMOVING CONCRETE RUMBLE STRIPS DETAIL



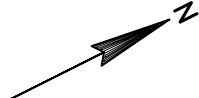
* NOTE: EXACT LOCATION OF NO PASSING ZONE SIGNS SHALL BE DETERMINED AFTER COMPLETING BID ITEM LOCATING NO PASSING ZONES.

PROJECT NO: 5130-02-62	HWY: STH 131	COUNTY: MONROE & VERNON	PERMANENT SIGNING	SHEET	E
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3-03R

3-04



NIAGARA AVE

3-05R

3-06



160

165

STH 131

170

175



3-01R

3-02



175

180

STH 131

185

190

PROJECT NO: 5130-02-62

HWY: STH 131

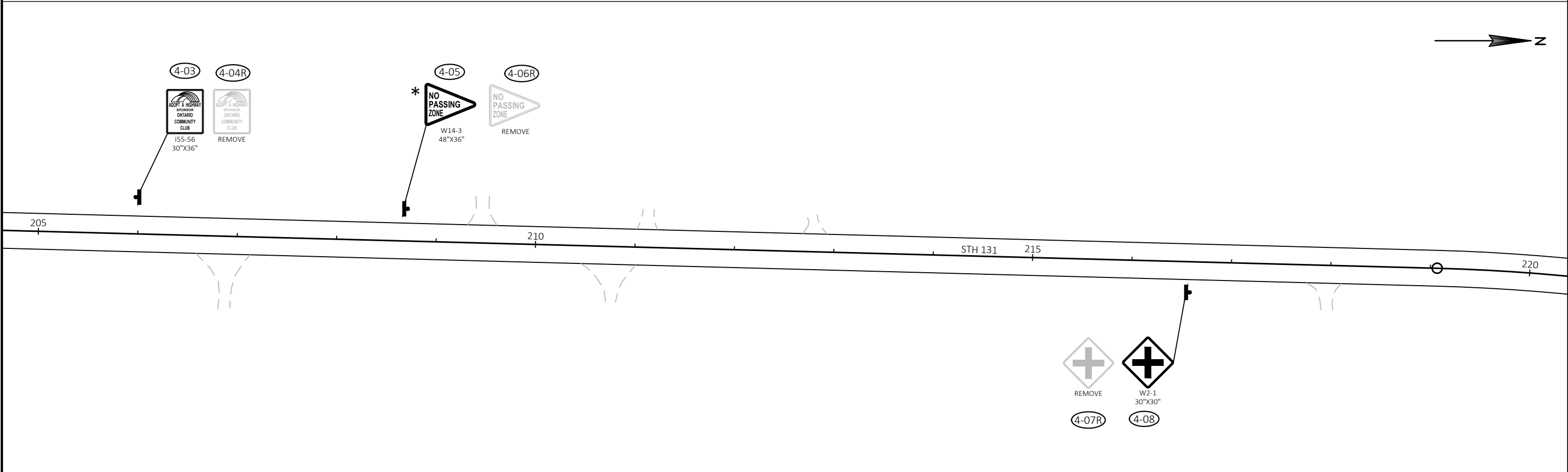
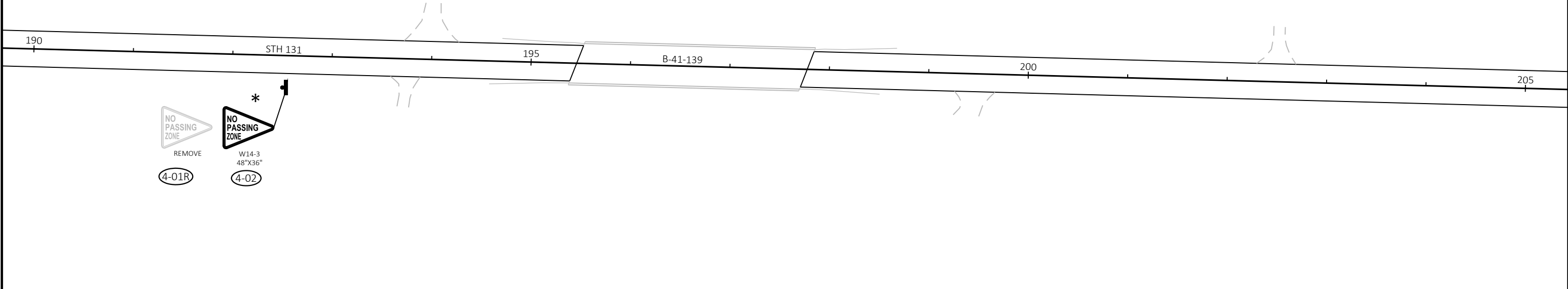
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PERMANENT SIGNING

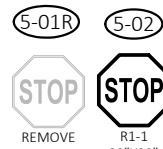
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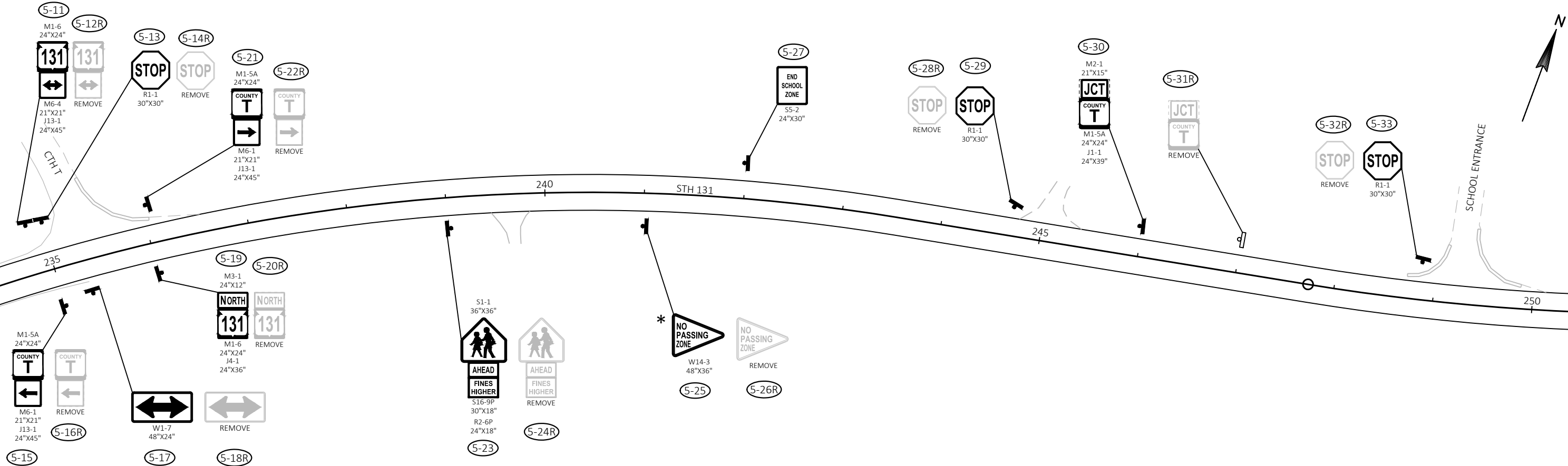
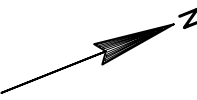
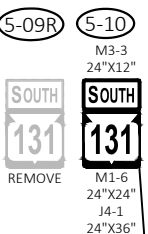
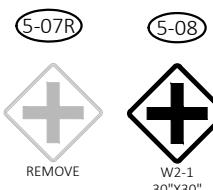
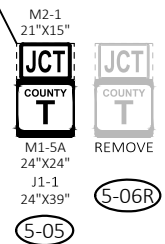
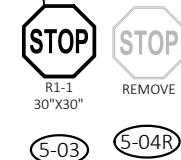


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NICHOLAS RD

ORBIT AVE



PROJECT NO: 5130-02-62

HWY: STH 131

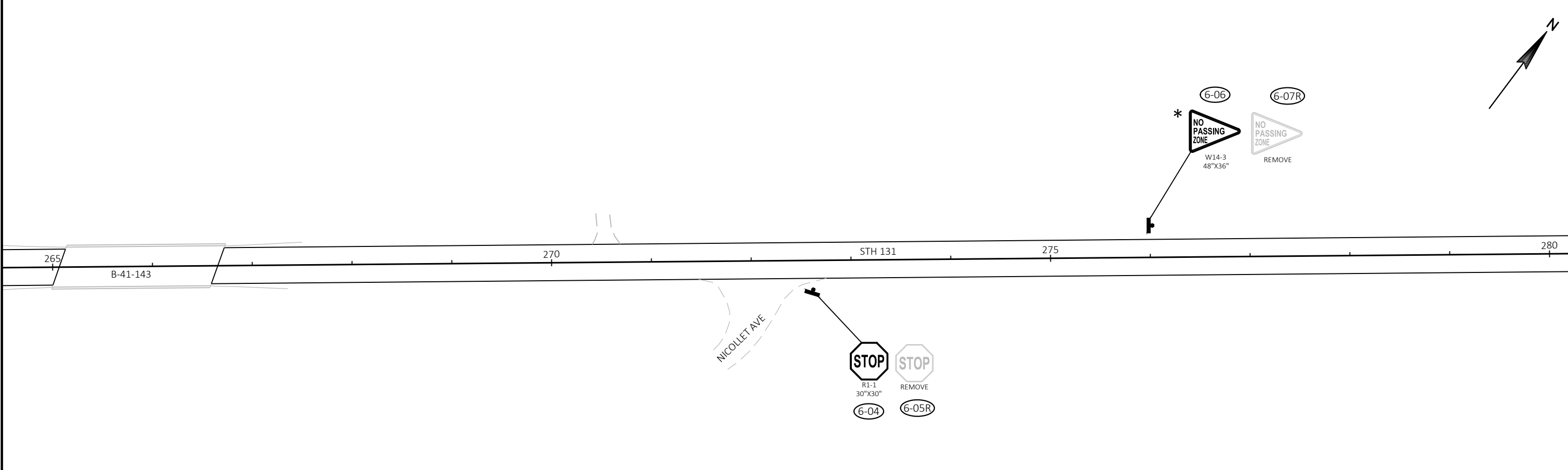
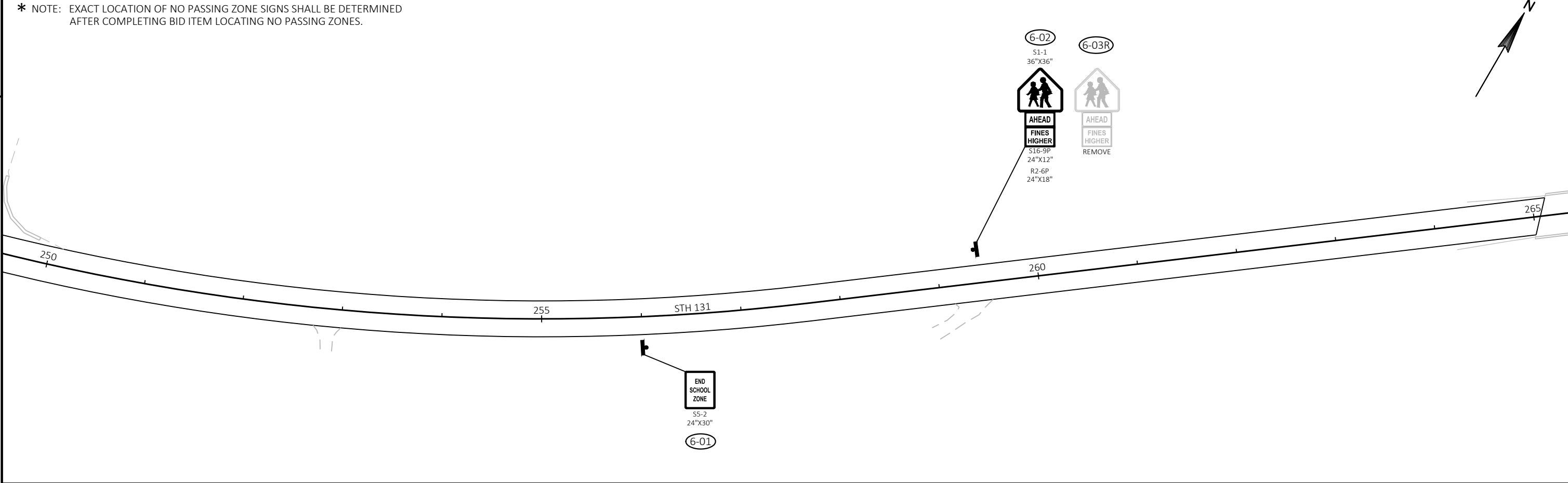
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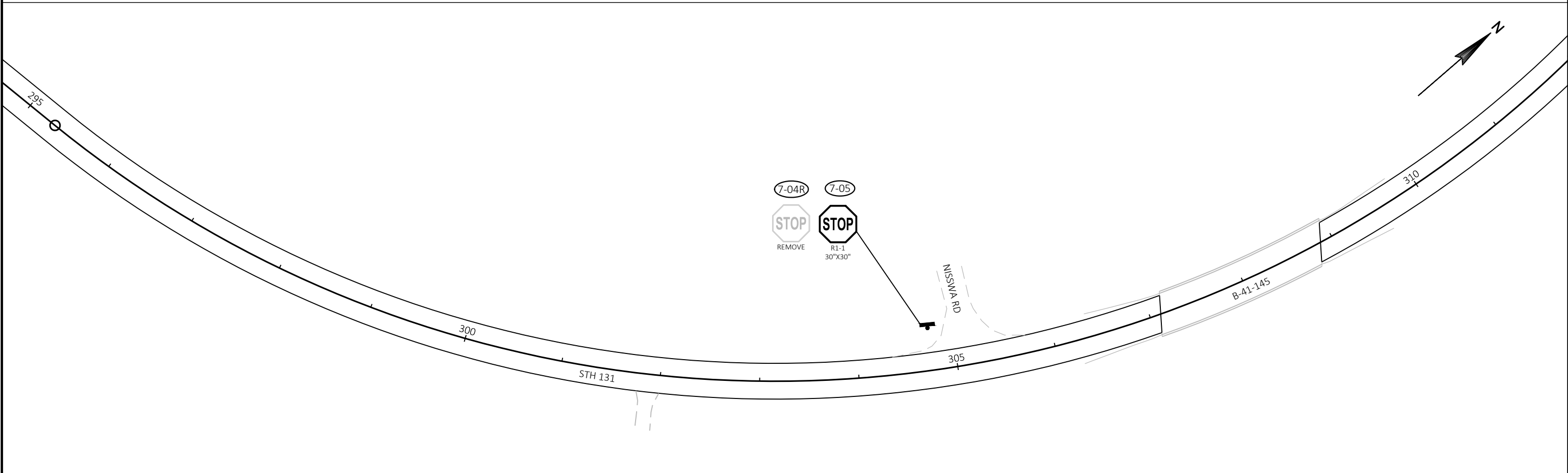
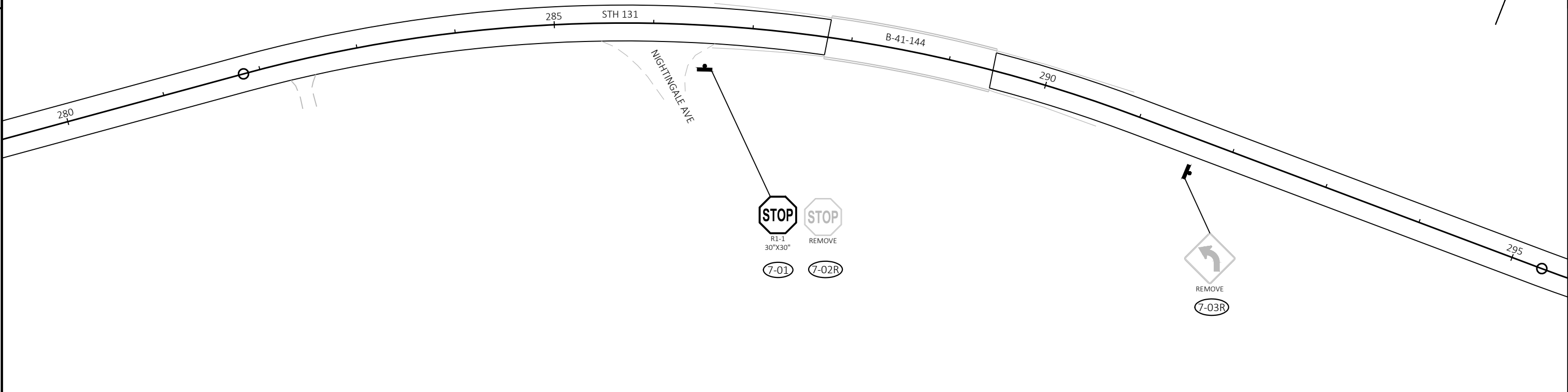
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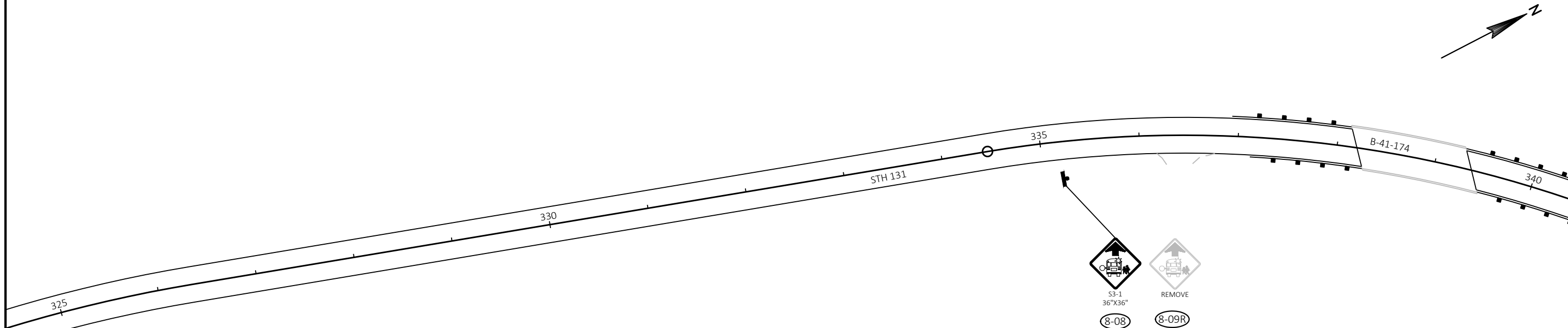
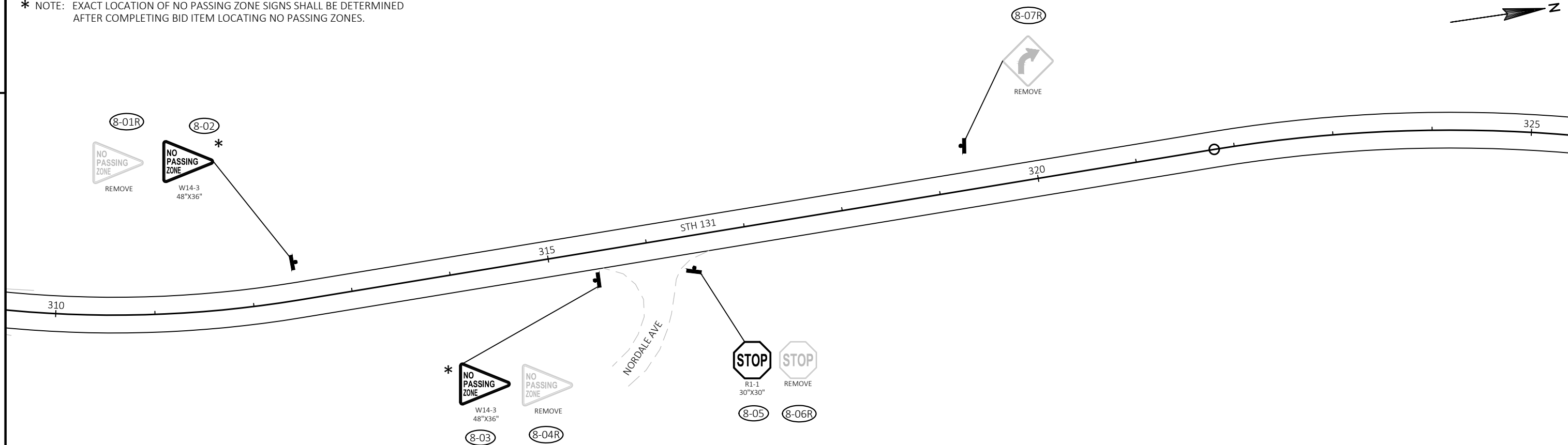


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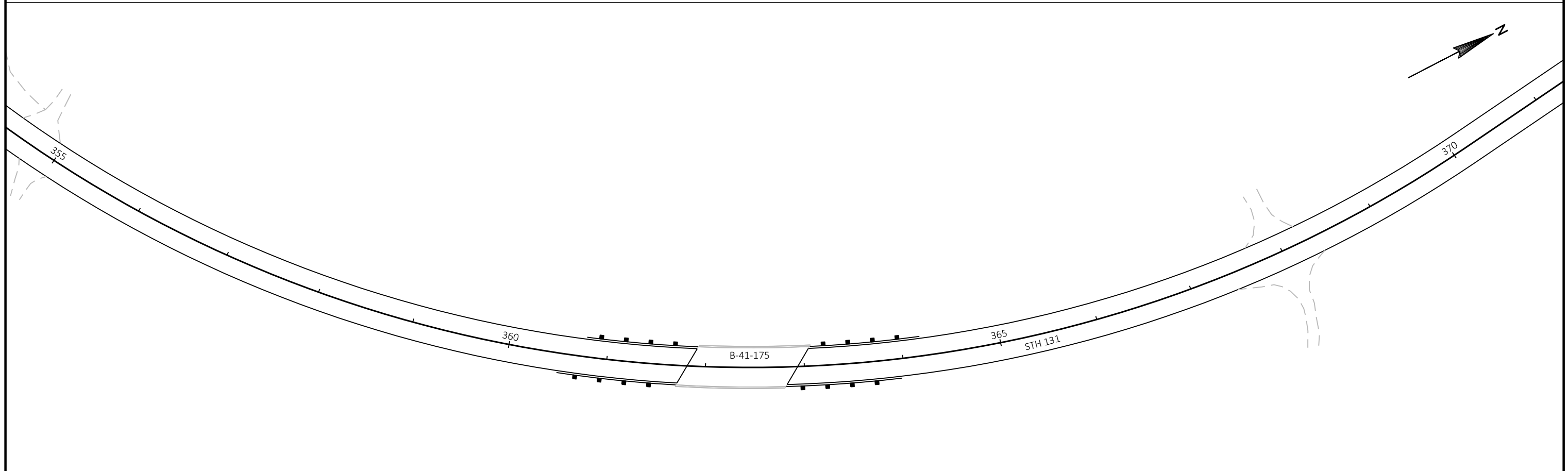
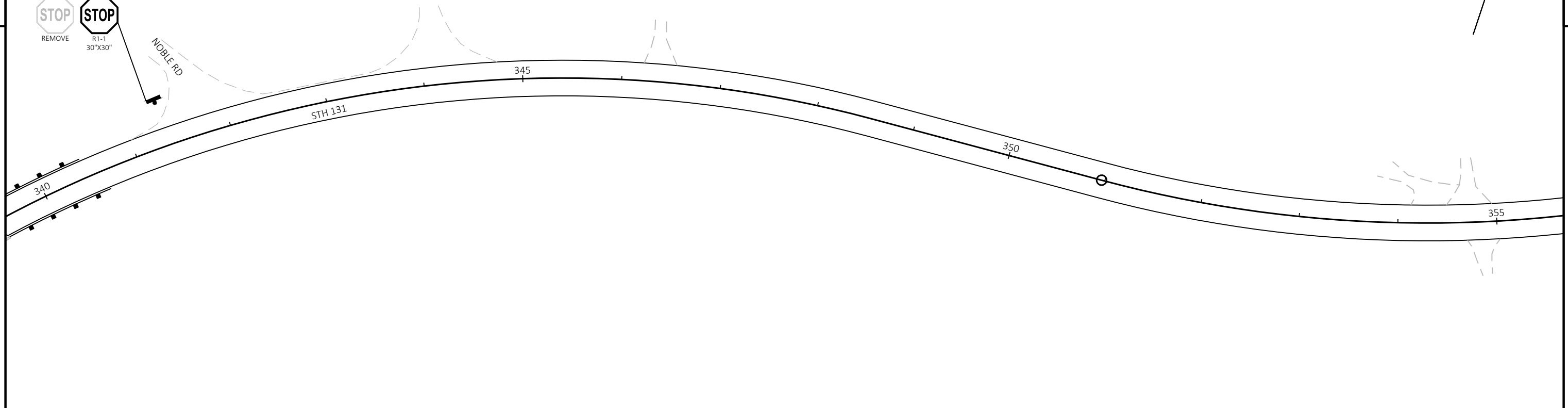
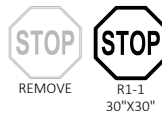
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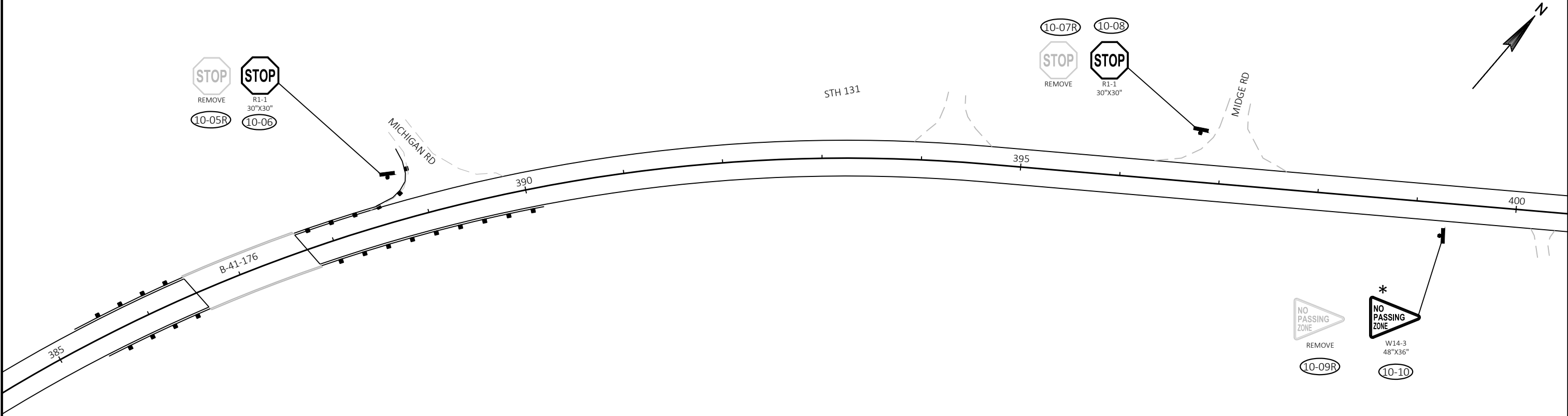
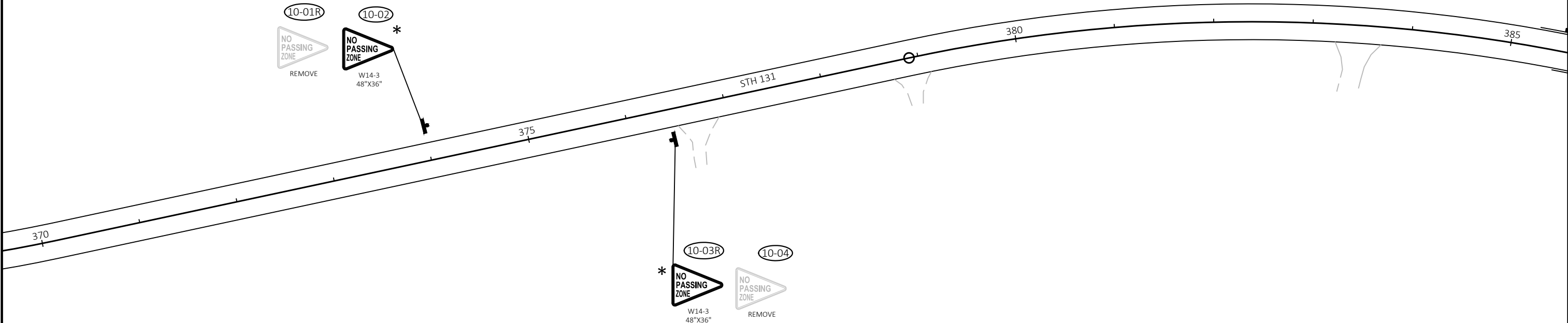
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9-01R 9-02

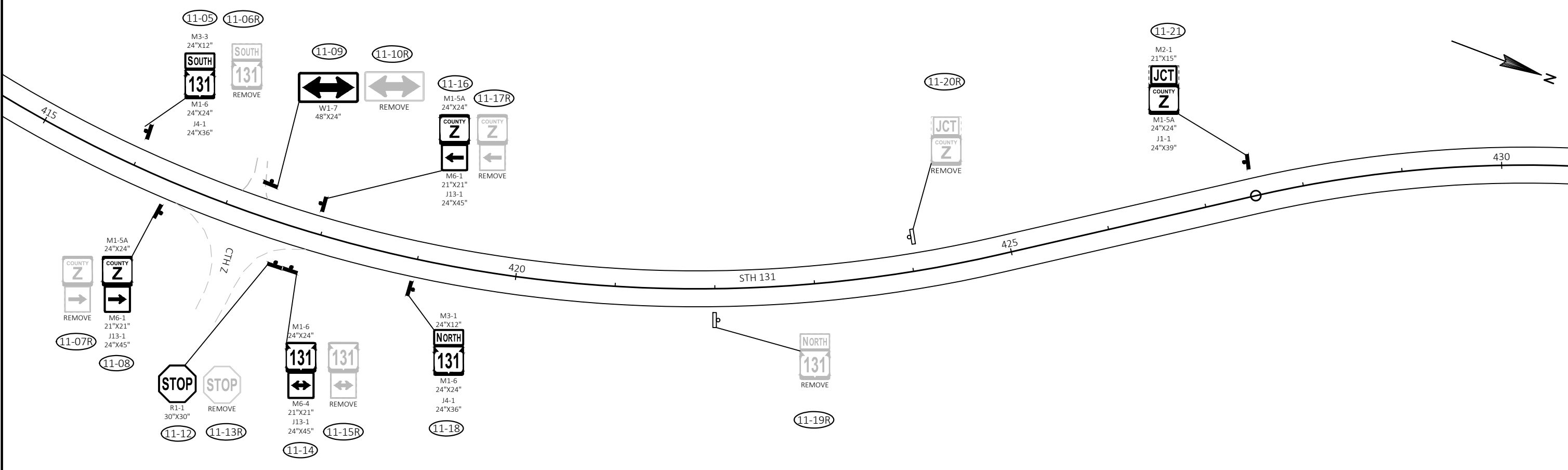
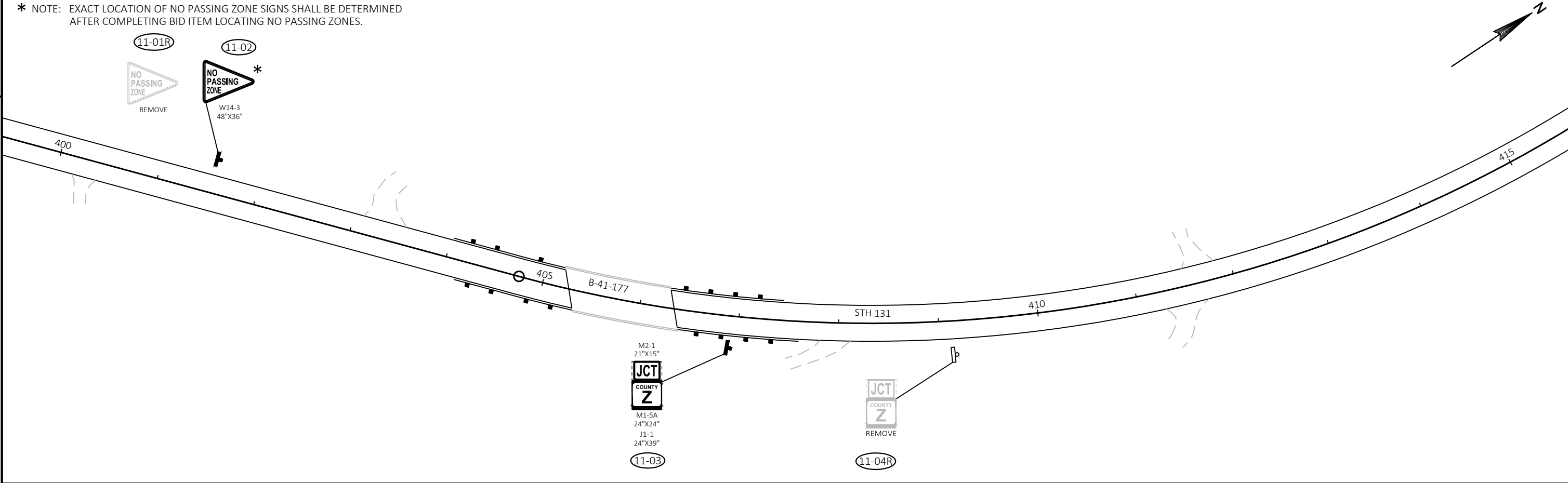


PROJECT NO: 5130-02-62	HWY: STH 131	COUNTY: MONROE & VERNON	PERMANENT SIGNING	SHEET	E
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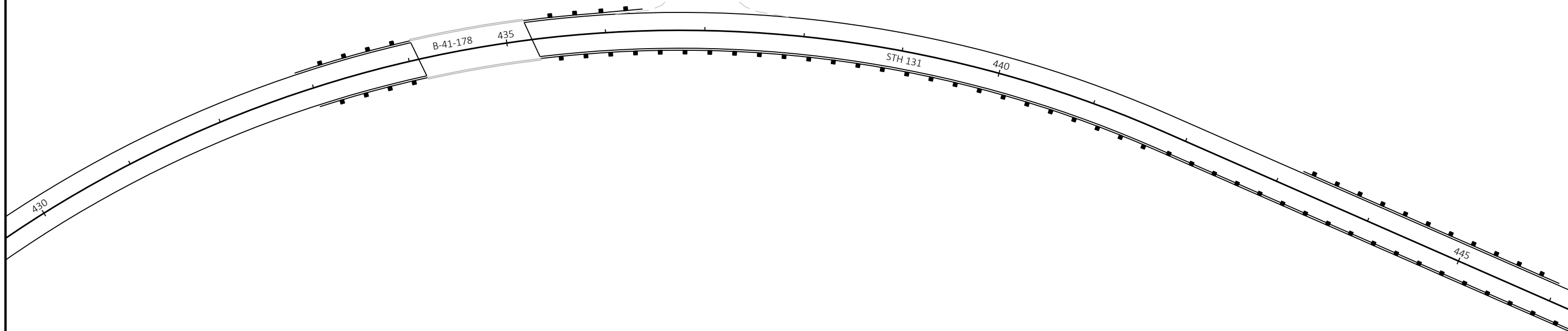
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12-01R

12-02



MICARD



PROJECT NO: 5130-02-62

HWY: STH 131

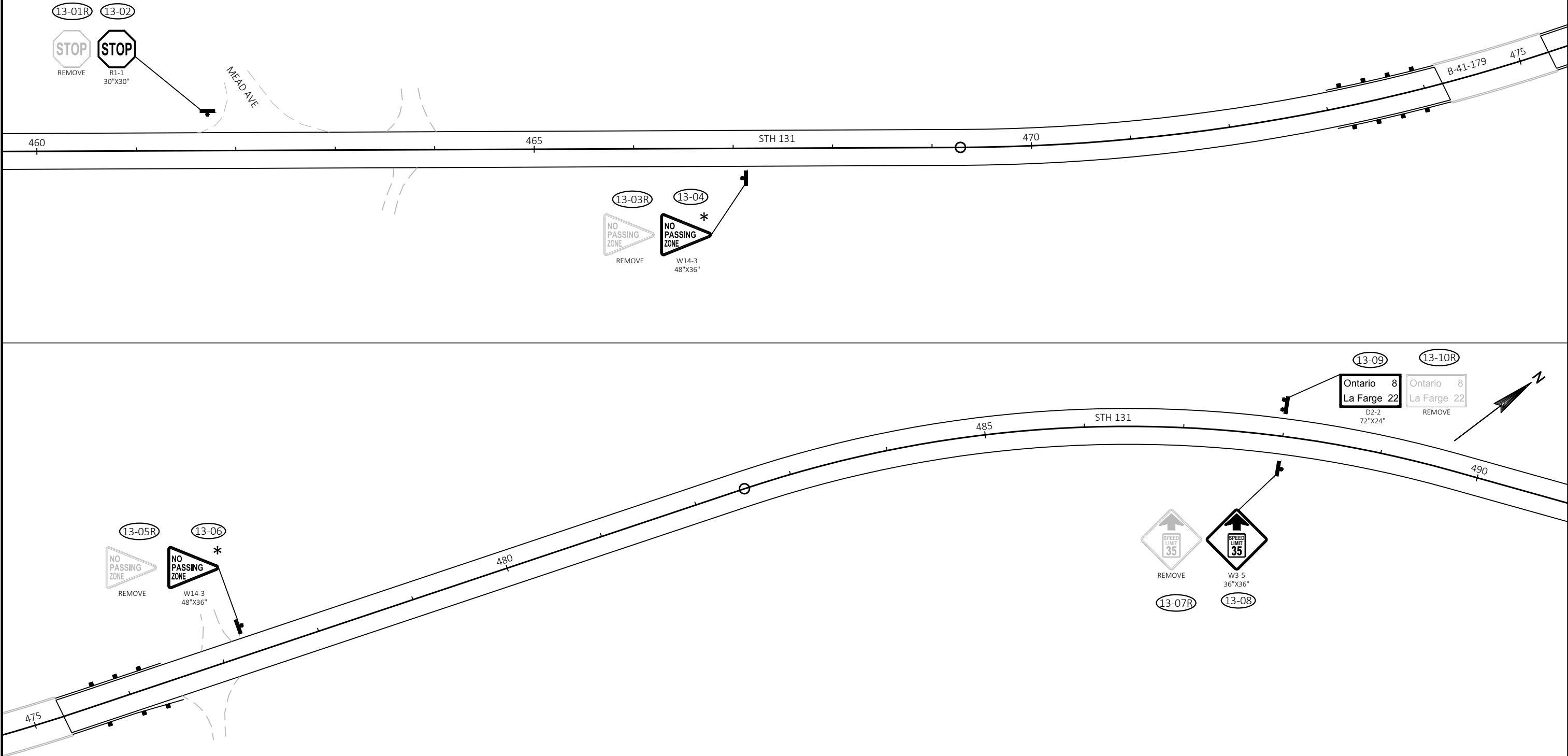
COUNTY: MONROE & VERNON

PERMANENT SIGNING

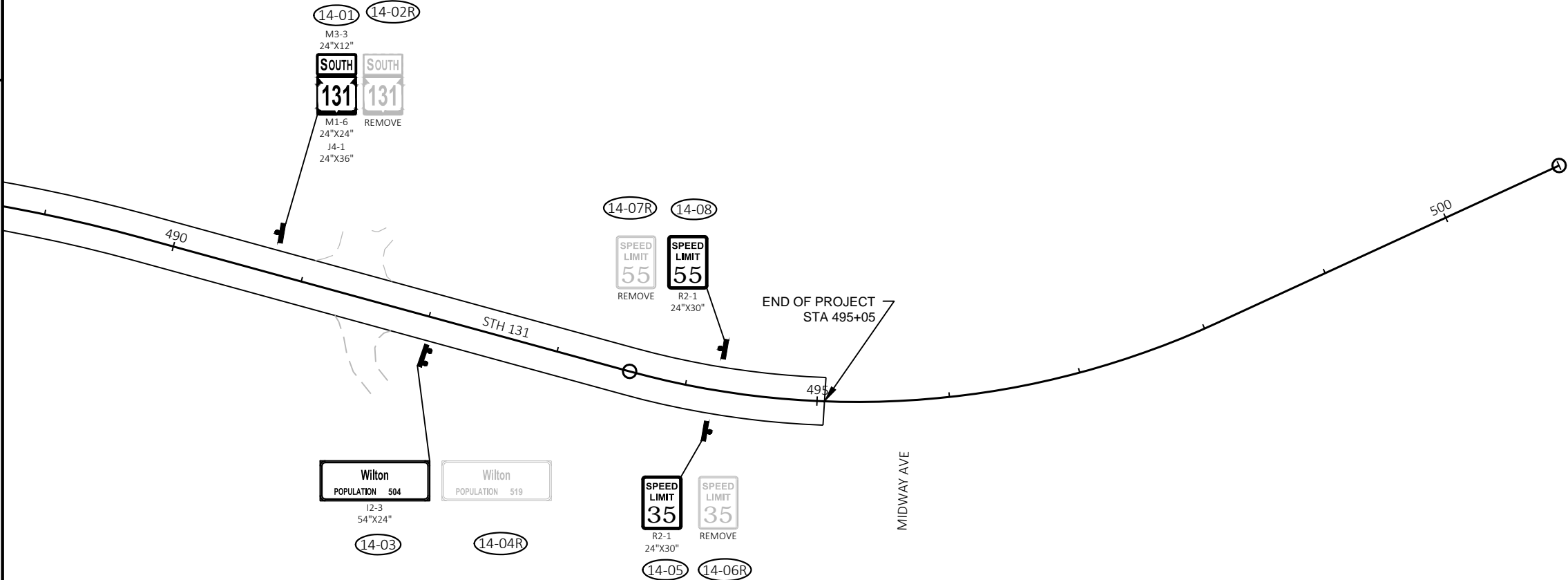
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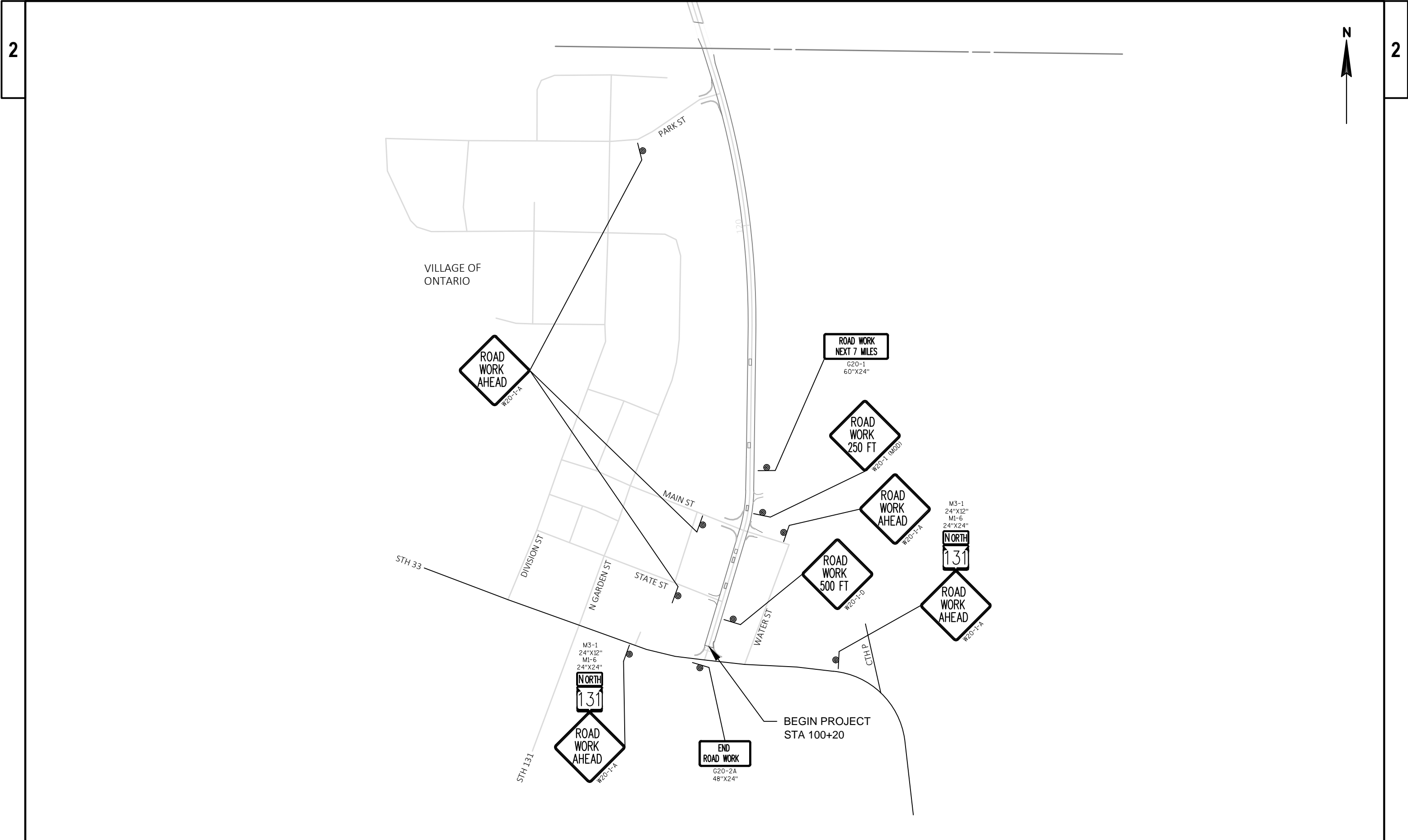
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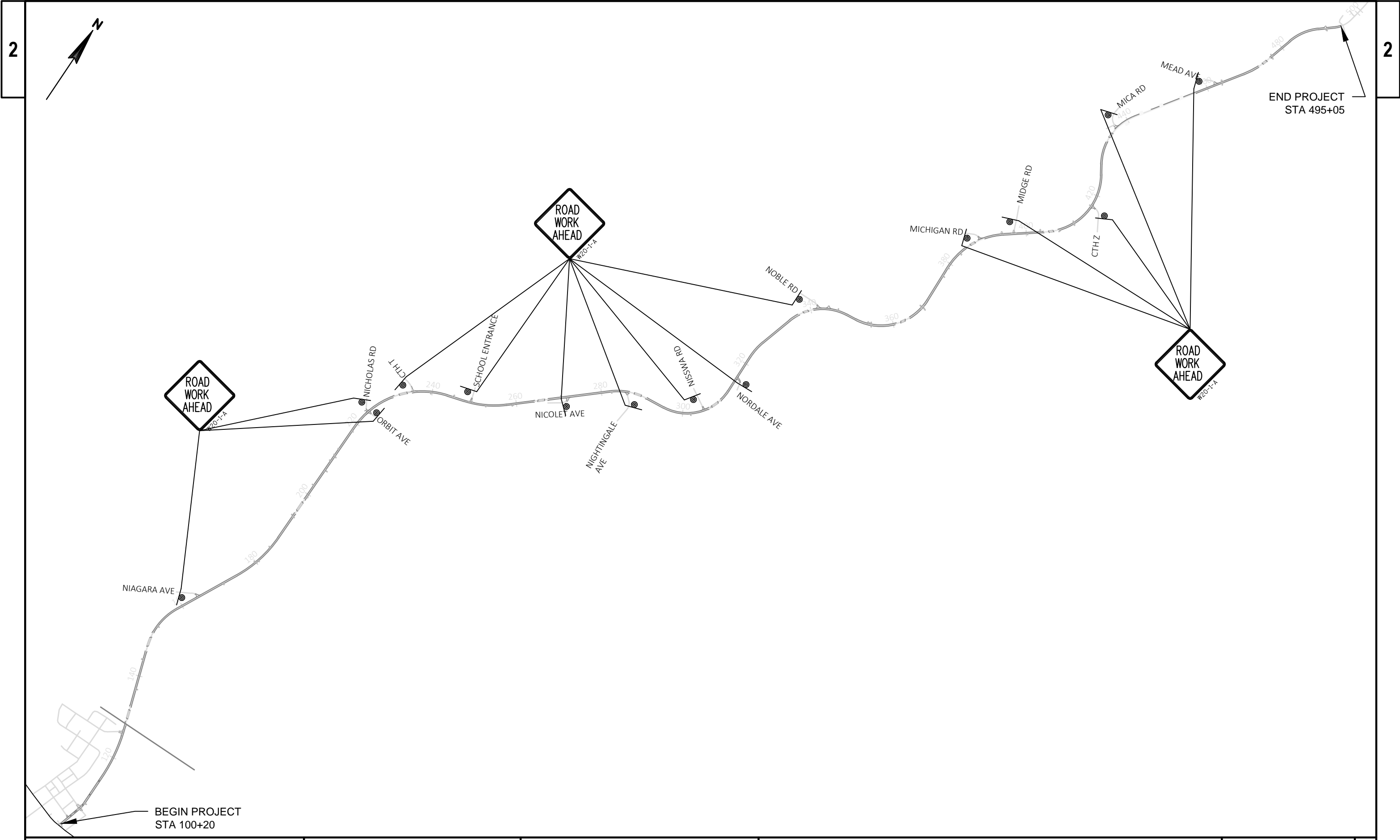
* NOTE: EXACT LOCATION OF NO PASSING ZONE SIGNS SHALL BE DETERMINED AFTER COMPLETING BID ITEM LOCATING NO PASSING ZONES.



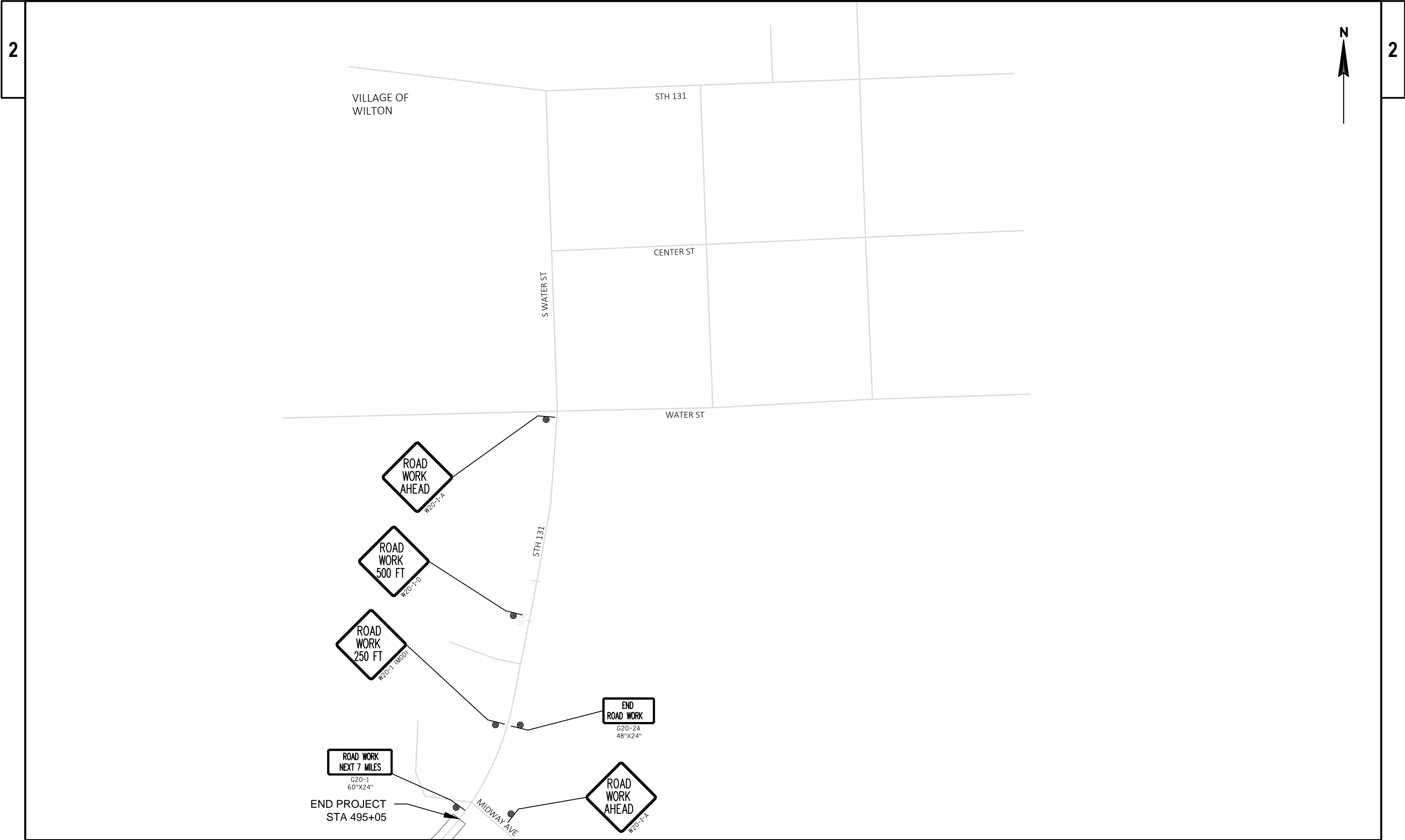
* NOTE: EXACT LOCATION OF NO PASSING ZONE SIGNS SHALL BE DETERMINED AFTER COMPLETING BID ITEM LOCATING NO PASSING ZONES.







PROJECT NO: 5130-02-62	HWY: 131	COUNTY: MONROE & VERNON	ADVANCED WARNING SIGNING	SHEET	E
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PROJECT NO: 5130-02-62	HWY: 131	COUNTY: MONROE & VERNON	ADVANCED WARNING SIGNING	SHEET	E
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Estimate Of Quantities

5130-02-62

Line	Item	Item Description	Unit	Total	Qty
0002	204.0100	Removing Pavement	SY	101.000	101.000
0004	204.0110	Removing Asphaltic Surface	SY	30.000	30.000
0006	204.0115	Removing Asphaltic Surface Butt Joints	SY	224.000	224.000
0008	204.0120	Removing Asphaltic Surface Milling	SY	130,928.000	130,928.000
0010	204.0165	Removing Guardrail	LF	5,236.000	5,236.000
0012	211.0400	Prepare Foundation for Asphaltic Shoulders	STA	565.000	565.000
0014	213.0100	Finishing Roadway (project) 01. 5130-02-62	EACH	1.000	1.000
0016	305.0110	Base Aggregate Dense 3/4-Inch	TON	2,400.000	2,400.000
0018	440.4410	Incentive IRI Ride	DOL	27,875.000	27,875.000
0020	455.0605	Tack Coat	GAL	10,485.000	10,485.000
0022	460.2005	Incentive Density PWL HMA Pavement	DOL	11,200.000	11,200.000
0024	460.2010	Incentive Air Voids HMA Pavement	DOL	17,300.000	17,300.000
0026	460.4110.S	Reheating HMA Pavement Longitudinal Joints	LF	37,446.000	37,446.000
0028	460.5224	HMA Pavement 4 LT 58-28 S	TON	17,312.000	17,312.000
0030	465.0450	Asphaltic Intersection Rumble Strips	SY	81.000	81.000
0032	465.0475	Asphalt Center Line Rumble Strips 2-Lane Rural	LF	29,514.000	29,514.000
0034	614.2300	MGS Guardrail 3	LF	2,762.500	2,762.500
0036	614.2500	MGS Thrie Beam Transition	LF	945.600	945.600
0038	614.2610	MGS Guardrail Terminal EAT	EACH	25.000	25.000
0040	614.2620	MGS Guardrail Terminal Type 2	EACH	1.000	1.000
0042	618.0100	Maintenance And Repair of Haul Roads (project) 01. 5130-02-62	EACH	1.000	1.000
0044	619.1000	Mobilization	EACH	1.000	1.000
0046	624.0100	Water	MGAL	12.000	12.000
0048	628.1504	Silt Fence	LF	330.000	330.000
0050	628.1520	Silt Fence Maintenance	LF	330.000	330.000
0052	628.1905	Mobilizations Erosion Control	EACH	2.000	2.000
0054	628.1910	Mobilizations Emergency Erosion Control	EACH	1.000	1.000
0056	628.2004	Erosion Mat Class I Type B	SY	500.000	500.000
0058	629.0210	Fertilizer Type B	CWT	1.000	1.000
0060	630.0120	Seeding Mixture No. 20	LB	15.000	15.000
0062	634.0614	Posts Wood 4x6-Inch X 14-FT	EACH	84.000	84.000
0064	634.0616	Posts Wood 4x6-Inch X 16-FT	EACH	8.000	8.000
0066	637.2210	Signs Type II Reflective H	SF	502.000	502.000
0068	637.2230	Signs Type II Reflective F	SF	158.000	158.000
0070	638.2602	Removing Signs Type II	EACH	80.000	80.000
0072	638.3000	Removing Small Sign Supports	EACH	83.000	83.000
0074	642.5001	Field Office Type B	EACH	1.000	1.000
0076	643.0100	Traffic Control (project) 01. 5130-02-62	EACH	1.000	1.000
0078	643.0300	Traffic Control Drums	DAY	2,000.000	2,000.000

Estimate Of Quantities

5130-02-62

Line	Item	Item Description	Unit	Total	Qty
0080	643.0900	Traffic Control Signs	DAY	1,500.000	1,500.000
0082	646.0106	Pavement Marking Epoxy 4-Inch	LF	49,838.000	49,838.000
0084	646.2304.S	Pavement Marking Grooved Wet Reflective Epoxy 4-Inch	LF	76,797.000	76,797.000
0086	648.0100	Locating No-Passing Zones	MI	7.480	7.480
0088	649.0402	Temporary Pavement Marking Paint 4-Inch	LF	49,838.000	49,838.000
0090	649.0403	Temporary Pavement Marking Epoxy 4-Inch	LF	49,838.000	49,838.000
0092	690.0150	Sawing Asphalt	LF	230.000	230.000
0094	SPV.0060	Special 01. HMA Percent Within Limit (PWL) Test Strip	EACH	1.000	1.000
0096	SPV.0180	Special 01. Removing Distressed Pavement Milling	SY	1,200.000	1,200.000

REMOVING PAVEMENT							REMOVING ASPHALTIC SURFACE MILLING						
204.0100							204.0120						
CATEGORY	STATION	TO	STATION	LOCATION	SY	REMARKS	CATEGORY	STATION	TO	STATION	LOCATION	SY	REMARKS
0010	104+70	-	104+88	LT	26	CONCRETE RUMBLE STRIP	0010	100+20.00	-	129+68.66	RT/LT	9829	MAINLINE
0010	109+67	-	109+93	LT	35	CONCRETE RUMBLE STRIP	0010	131+76.86	-	147+23.60	RT/LT	5156	MAINLINE
0010	113+50	-	113+80	LT	40	CONCRETE RUMBLE STRIP	0010	149+42.41	-	195+45.84	RT/LT	15345	MAINLINE
TOTAL 0010					101		0010	197+77.89	-	232+22.64	RT/LT	11483	MAINLINE
							0010	234+10.79	-	265+06.65	RT/LT	10319	MAINLINE
REMOVING ASPHALTIC SURFACE BUTT JOINTS							0010	266+65.76	-	287+75.83	RT/LT	7034	MAINLINE
204.0115							0010	289+45.27	-	307+11.08	RT/LT	5886	MAINLINE
CATEGORY	STATION	TO	STATION	LOCATION	SY	REMARKS	0010	308+87.62	-	338+20.03	RT/LT	9775	MAINLINE
0010	100+20	-	100+22	BOP	8		0010	339+37.97	-	361+81.38	RT/LT	7478	MAINLINE
0010	129+67	-	129+69	B-41-141	8		0010	362+93.49	-	386+52.53	RT/LT	7863	MAINLINE
0010	131+77	-	131+79	B-41-141	8		0010	387+72.57	-	405+26.96	RT/LT	5848	MAINLINE
0010	147+22	-	147+24	B-41-138	8		0010	406+34.72	-	434+09.84	RT/LT	9250	MAINLINE
0010	149+42	-	149+44	B-41-138	8		0010	435+25.51	-	474+18.75	RT/LT	12978	MAINLINE
							0010	475+30.32	-	495+05.00	RT/LT	6582	MAINLINE
0010	195+44	-	195+46	B-41-139	8		0010	100+20.00	-	495+05.00	RT/LT	6102	SIDERoads, DRIVEWAYS, SHOULDER
0010	197+78	-	197+80	B-41-139	8		TOTAL 0010					130928	
0010	232+21	-	232+23	B-41-140	8								
0010	234+11	-	234+13	B-41-140	8		REMOVING GUARDRAIL						
0010	265+05	-	265+07	B-41-143	8		204.0165						
0010	266+64	-	264+66	B-41-143	8		CATEGORY	STATION	TO	STATION	LOCATION	LF	REMARKS
0010	287+74	-	287+76	B-41-144	8		0010	336+93	-	340+63	LT & RT	468	B-41-174
0010	289+43	-	289+45	B-41-144	8		0010	360+51	-	364+18	LT & RT	468	B-41-175
0010	307+09	-	307+11	B-41-145	8		0010	385+27	-	390+19	LT & RT	550	B-41-176
0010	308+88	-	308+90	B-41-145	8		0010	404+03	-	407+61	LT & RT	468	B-41-177
0010	338+18	-	338+20	B-41-174	8		0010	432+86	-	436+54	LT & RT	468	B-41-178
0010	339+36	-	339+38	B-41-174	8		0010	436+54	-	457+25	RT	2071	
0010	361+79	-	361+81	B-41-175	8		0010	443+25	-	446+00	LT	275	
0010	362+91	-	362+93	B-41-175	8		0010	473+03	-	476+49	LT & RT	468	B-41-179
0010	386+51	-	386+53	B-41-176	8		TOTAL 0010					5236	
0010	387+71	-	387+73	B-41-176	8								
0010	405+25	-	405+27	B-41-177	8								
0010	406+35	-	406+37	B-41-177	8								
0010	434+08	-	434+10	B-41-178	8								
0010	435+26	-	435+28	B-41-178	8								
0010	474+17	-	474+19	B-41-179	8								
0010	475+30	-	475+32	B-41-179	8								
0010	495+03	-	495+05	EOP	8								
TOTAL 0010					224								

REMOVING ASPHALTIC SURFACE

CATEGORY	STATION	TO	STATION	LOCATION	204.0110 SY	REMARKS
0010	104+70	-	104+88	LT	10	
0010	109+67	-	109+93	LT	10	
0010	113+50	-	113+80	LT	10	
TOTAL 0010					30	

PREPARE FOUNDATION FOR ASPHALTIC SHOULDERS

CATEGORY	STATION	TO	STATION	LOCATION	211.0400 STA	REMARKS
0010	100+20	-	495+05	LT/RT	565	
TOTAL 0010					565	

BASE AGGREGATE DENSE 3/4-INCH

CATEGORY	STATION	TO	STATION	LOCATION	305.0110 TON	REMARKS
0010	100+20	-	495+05	PROJECT	1750	UNDISTRIBUTED - SHOULDERS
0010	100+20	-	495+05	PROJECT	650	UNDISTRIBUTED - SHOULDERS
TOTAL 0010					2400	

TACK COAT

CATEGORY	STATION	TO	STATION	LOCATION	455.0605 GAL	REMARKS
0010	100+20	-	495+05	RT/LT	10485	
TOTAL 0010					10485	

REHEATING HMA PAVEMENT LONGITUDINAL JOINTS

CATEGORY	STATION	TO	STATION	LOCATION	460.4110.S LF	REMARKS
0010	100+20	-	495+05	CL	37446	
TOTAL 0010					37446	

HMA PAVEMENT 4 LT 58-28 S

CATEGORY	STATION	TO	STATION	LOCATION	460.5224 TON	REMARKS
0010	100+20	-	495+05	RT/LT	16776	MAINLINE
0010	100+20	-	495+05	RT/LT	536	SIDERoads, DRIVEWAYS, SHOULDER
TOTAL 0010					17312	

ASPHALTIC INTERSECTION RUMBLE STRIPS					
				465.0450	
CATEGORY	STATION	TO	STATION	LOCATION	REMARKS
				SY	
0010	103+00	-	103+25	LT	27
0010	104+25	-	104+50	LT	27
0010	106+75	-	107+00	LT	27
TOTAL 0010				81	

ASPHALT CENTER LINE RUMBLE STRIPS 2-LANE RURAL					
				465.0475	
CATEGORY	STATION	TO	STATION	LOCATION	REMARKS
				LF	
0010	100+20	-	495+05	CL	29514
TOTAL 0010				29514	

MGS GUARDRAIL 3					
				614.2300	
CATEGORY	STATION	TO	STATION	LOCATION	REMARKS
				LF	
0010	337+46	-	337+59	LT	12.5
0010	337+67	-	337+80	RT	12.5
0010	339+80	-	339+93	LT	12.5
0010	339+97	-	340+10	RT	12.5
0010	361+04	-	361+17	RT	12.5
0010	361+32	-	361+45	LT	12.5
0010	362+31	-	363+44	RT	12.5
0010	363+52	-	363+65	LT	12.5
0010	385+79	-	385+92	LT	12.5
0010	385+99	-	386+12	RT	12.5
0010	388+18	-	388+85	LT	112.5
0010	388+28	-	389+66	RT	137.5
0010	404+56	-	404+69	LT	12.5
0010	404+67	-	404+80	RT	12.5
0010	406+77	-	406+90	LT	12.5
0010	406+95	-	407+08	RT	12.5
0010	433+39	-	433+52	LT	12.5
0010	433+54	-	433+67	RT	12.5
0010	435+73	-	435+86	LT	12.5
0010	435+81	-	456+72	RT	2075
0010	443+74	-	445+49	LT	175
0010	473+56	-	473+69	LT	12.5
0010	473+59	-	473+72	RT	12.5
0010	475+73	-	475+86	LT	12.5
0010	475+83	-	475+96	RT	12.5
TOTAL 0010				2762.5	

MGS GUARDRAIL TERMINAL TYPE 2			
		614.2620	
CATEGORY	STATION	LOCATION	REMARKS
		EACH	
0010	388+85	71' LT	1
TOTAL 0010		1	

3

MGS THRIE BEAM TRANSITION

614.2500						REMARKS
CATEGORY	STATION	TO	STATION	LOCATION	LF	
0010	337+59	-	337+98	LT	39	
0010	337+80	-	338+19	RT	39	
0010	339+41	-	339+80	LT	39	
0010	339+58	-	339+97	RT	39	
0010	361+17	-	361+56	RT	39	
0010	361+45	-	361+84	LT	39	
0010	362+92	-	363+31	RT	39	
0010	363+13	-	363+52	LT	39	
0010	385+92	-	386+31	LT	39	
0010	386+12	-	386+51	RT	39	
0010	387+79	-	388+18	LT	39	
0010	387+89	-	388+28	RT	39	
0010	404+69	-	405+08	LT	39	
0010	404+80	-	405+19	RT	39	
0010	406+38	-	406+77	LT	39	
0010	406+56	-	406+95	RT	39	
0010	433+52	-	433+91	LT	39	
0010	433+67	-	434+06	RT	39	
0010	435+34	-	435+73	LT	39	
0010	435+42	-	435+81	RT	39	
0010	473+69	-	474+08	LT	39	
0010	473+72	-	474+11	RT	39	
0010	475+34	-	475+73	LT	39	
0010	475+44	-	475+83	RT	39	
TOTAL 0010					946	

MGS GUARDRAIL TERMINAL EAT

614.2610						REMARKS
CATEGORY	STATION	TO	STATION	LOCATION	EACH	
0010	336+93	-	337+46	LT	1	
0010	337+14	-	337+67	RT	1	
0010	339+93	-	340+46	LT	1	
0010	340+10	-	340+63	RT	1	
0010	360+51	-	361+04	RT	1	
0010	360+79	-	361+32	LT	1	
0010	363+44	-	363+97	RT	1	
0010	363+65	-	364+18	LT	1	
0010	385+27	-	385+79	LT	1	
0010	385+46	-	385+99	RT	1	
0010	389+66	-	390+19	RT	1	
0010	404+03	-	404+56	LT	1	
0010	404+14	-	404+80	RT	1	
0010	406+90	-	407+43	LT	1	
0010	407+08	-	407+61	RT	1	
0010	432+86	-	433+39	LT	1	
0010	433+01	-	433+54	RT	1	
0010	435+86	-	436+39	LT	1	
0010	443+21	-	443+74	LT	1	
0010	445+49	-	446+02	LT	1	
0010	456+72	-	457+25	RT	1	
0010	473+03	-	473+56	LT	1	
0010	473+06	-	473+59	RT	1	
0010	475+86	-	476+39	LT	1	
0010	475+96	-	476+49	RT	1	
TOTAL 0010					25	

3

WATER

624.0100						REMARKS
CATEGORY	STATION	TO	STATION	LOCATION	MGAL	
0010	100+20	-	495+05	PROJECT	12	UNDISTRIBUTED - COMPACTION
TOTAL 0010					12	

MOBILIZATIONS EROSION CONTROL

					628.1905	628.1910	
					MOBILIZATIONS	MOBILIZATIONS	
					EROSION CONTROL	EROSION CONTROL	
CATEGORY	STATION	TO	STATION	LOCATION	EACH	EACH	REMARKS
0010	387+35	-	390+65	RT	2	1	
TOTAL 0010					2	1	

EROSION CONTROL AND RESTORATION

						628.1504	628.1520	628.2004	629.0210	630.0120	REMARKS
						SILT FENCE	SILT FENCE	EROSION MAT	FERTILIZER	SEEDING	
CATEGORY	STATION	TO	STATION	LOCATION		LF	MAINTENANCE	CLASS 1 TYPE B	TYPE B	MIXTURE NO. 20	
							LF	SY	CWT	LB	
0010	387+35	-	390+65	RT		330	330	500	1	15	
TOTAL 0010						330	330	500	1	15	

TRAFFIC CONTROL DRUMS

CATEGORY	STATION	TO	STATION	LOCATION	643.0300	REMARKS
					DAY	
0010	336+93	-	476+49	LT/RT	2000	UNDISTRIBUTED - BEAM GUARD AREAS
TOTAL 0010					2000	

TEMPORARY PAVEMENT MARKING PAINT 4-INCH

CATEGORY	STATION	TO	STATION	LOCATION	649.0402	REMARKS
					LF	
0010	100+20	-	495+05	CL	49838	ON MILLED SURFACE
TOTAL 0010					49838	

TRAFFIC CONTROL SIGNS

CATEGORY	STATION	TO	STATION	LOCATION	643.0900	REMARKS
					DAY	
0010	--	-	--	PROJECT	1500	
TOTAL 0010					1500	

TEMPORARY PAVEMENT MARKING EPOXY 4-INCH

CATEGORY	STATION	TO	STATION	LOCATION	649.0403	REMARKS
					LF	
0010	100+05	-	495+05	CL	49838	ON NEW HMA SURFACE
TOTAL 0010					49838	

LOCATING NO-PASSING ZONES

CATEGORY	STATION	TO	STATION	LOCATION	648.0100	REMARKS
					MI	
0010	100+20	-	495+05	MAINLINE	7.48	
TOTAL 0010					7.48	

PAVEMENT MARKING								PAVEMENT MARKING							
				646.0106 PAVEMENT MARKING GROVVED WET REFLECTIVE EPOXY LF								646.2304.S PAVEMENT MARKING GROVVED WET REFLECTIVE EPOXY LF			
CATEGORY	STATION	TO	STATION	LOCATION	LF	LF	REMARKS	CATEGORY	STATION	TO	STATION	LOCATION	LF	LF	REMARKS
0010	100+05	-	105+65	CL	1120	---	DOUBLE SOLID CENTER LINE	0010	389+67	-	396+65	LT	---	698	SOLID EDGELINE
0010	100+15	-	102+13	LT	---	198	SOLID EDGELINE	0010	397+62	-	436+46	LT	---	3884	SOLID EDGELINE
0010	100+55	-	105+40	RT	---	485	SOLID EDGELINE	0010	399+27	-	401+79	CL	63	---	DASHED CENTER LINE
0010	102+74	-	105+22	LT	---	248	SOLID EDGELINE	0010	401+79	-	411+25	CL	1183	---	DASHED, SOLID CENTER LINE
0010	105+65	-	116+45	CL	1350	---	SOLID, DASHED CENTERLINE	0010	411+25	-	457+05	CL	9160	---	DOUBLE SOLID CENTER LINE
0010	106+30	-	125+70	LT	---	1940	SOLID EDGELINE	0010	417+84	-	495+05	RT	---	7721	SOLID EDGELINE
0010	106+88	-	223+53	RT	---	11665	SOLID EDGELINE	0010	437+53	-	461+60	LT	---	2407	SOLID EDGELINE
0010	116+45	-	141+85	CL	635	---	DASHED CENTER LINE	0010	457+05	-	467+97	CL	1365	---	SOLID, DASHED CENTERLINE
0010	126+86	-	163+85	LT	---	3699	SOLID EDGELINE	0010	462+90	-	491+10	LT	---	2820	SOLID EDGELINE
0010	141+85	-	152+55	CL	1338	---	DASHED, SOLID CENTER LINE	0010	467+97	-	477+25	CL	231	---	DASHED CENTER LINE
0010	152+55	-	163+60	CL	1381	---	SOLID, DASHED CENTERLINE	0010	477+25	-	487+17	CL	1240	---	DASHED, SOLID CENTER LINE
0010	163+60	-	169+50	CL	148	---	DASHED CENTER LINE	0010	487+17	-	495+05	CL	1576	---	DOUBLE SOLID CENTER LINE
0010	165+05	-	223+47	LT	---	5842	SOLID EDGELINE	0010	491+76	-	495+05	LT	---	329	SOLID EDGELINE
0010	169+50	-	180+68	CL	1398	---	DASHED, SOLID CENTER LINE	TOTAL 0010							
0010	180+68	-	192+65	CL	1496	---	SOLID, DASHED CENTERLINE						49838	76797	
0010	192+65	-	208+60	CL	399	---	DASHED CENTER LINE	NOTE: EXACT LOCATION OF DOUBLE YELLOW CENTER LINE SHALL BE DETERMINED AFTER COMPLETING BID ITEM							
0010	208+60	-	220+55	CL	1494	---	DASHED, SOLID CENTER LINE	LOCATION NO-PASSING ZONES							
0010	220+55	-	223+30	CL	550	---	DOUBLE SOLID CENTER LINE								
0010	224+27	-	234+83	LT	---	1056	SOLID EDGELINE								
0010	224+56	-	271+55	RT	---	4699	SOLID EDGELINE								
0010	223+30	-	241+38	CL	2260	---	SOLID, DASHED CENTERLINE								
0010	236+28	-	248+70	LT	---	1242	SOLID EDGELINE								
0010	241+38	-	275+98	CL	865	---	DASHED CENTER LINE								
0010	249+87	-	304+57	LT	---	5470	SOLID EDGELINE								
0010	272+62	-	285+47	RT	---	1285	SOLID EDGELINE								
0010	275+98	-	286+58	CL	1325	---	DASHED, SOLID CENTER LINE								
0010	286+65	-	315+60	RT	---	2895	SOLID EDGELINE								
0010	286+58	-	305+62	CL	3808	---	DOUBLE SOLID CENTER LINE								
0010	305+62	-	341+26	LT	---	3564	SOLID EDGELINE								
0010	305+62	-	312+68	CL	883	---	SOLID, DASHED CENTERLINE								
0010	312+68	-	315+65	CL	594	---	DOUBLE SOLID CENTER LINE								
0010	315+65	-	325+30	CL	1206	---	DASHED, SOLID CENTER LINE								
0010	316+42	-	416+65	RT	---	10023	SOLID EDGELINE								
0010	325+30	-	365+95	CL	8130	---	DOUBLE SOLID CENTER LINE								
0010	342+48	-	388+75	LT	---	4627	SOLID EDGELINE								
0010	365+95	-	373+73	CL	973	---	SOLID, DASHED CENTERLINE								
0010	373+73	-	376+35	CL	524	---	DOUBLE SOLID CENTER LINE								
0010	376+35	-	384+65	CL	1038	---	DASHED, SOLID CENTER LINE								
0010	384+65	-	388+35	CL	740	---	DOUBLE SOLID CENTER LINE								
0010	388+35	-	399+27	CL	1365	---	SOLID, DASHED CENTERLINE								
CONTINUED ON THE RIGHT															
PROJECT NO: 5130-02-62				HWY: STH 131				COUNTY: MONROE & VERNON				MISCELLANEOUS QUANTITIES			
												SHEET:			

PERMANENT SIGNING														
		634.0614		634.0616		637.2210		637.2230		638.2602		638.3000		
		POSTS		POSTS		SIGNS		SIGNS		REMOVING		REMOVING		
		WOOD		WOOD		TYPE II		TYPE II		SIGNS		SIGN		
		4X6-INCH		4X6-INCH		REFLECTIVE H		REFLECTIVE F		TYPE II		SUPPORTS		
CATEGORY	SIGN NO	APPROX STATION	LOCATION	SIGN CODE	DESCRIPTION	MESSAGE	SIZE IN X IN	14-FT EACH	16-FT EACH	SF	SF	EACH	EACH	REMARKS
0010	1-01	101+50	RT	J4-1	REASSURANCE ASSEMBLY	NORTH	24 X 36	1	---	6.00	---	---	---	
						131	---	---	---	---	---	---	---	
0010	1-02	101+50	LT	W14-3	NO PASSING ZONE PENNANT	---	48 X 26	1	---	---	6.00	---	---	
0010	1-03R	101+75	LT	W14-3	NO PASSING ZONE PENNANT	---	48 X 36	---	---	---	---	1	1	
0010	1-04R	101+75	LT	D7-53L	STATE PARK (LEFT ARROW)	WILDCAT MOUNTAIN	54 X 36	---	---	---	---	---	---	
						STATE PARK	---	---	---	---	---	---	---	
0010	1-05	101+75	LT	D7-53L	STATE PARK (LEFT ARROW)	WILDCAT MOUNTAIN	84 X 36	---	2	21.00	---	---	---	INCLUDED WITH 1-03R
						STATE PARK	---	---	---	---	---	---	---	
0010	1-06	102+10	LT	R1-1	STOP	---	30 X 30	1	---	5.18	---	---	---	
0010	1-07R	102+10	LT	R1-1	STOP	---	30 X 30	---	---	---	---	1	1	
0010	1-08R	102+10	RT	J4-1	REASSURANCE ASSEMBLY	NORTH	24 X 36	---	---	---	---	1	1	
						131	---	---	---	---	---	---	---	
0010	1-09R	103+00	RT	I55-56	ADOPT A HIGHWAY	ONTARIO COMMUNITY CLUB	30 X 36	---	---	7.50	---	---	---	
0010	1-10	103+00	RT	R2-1	SPEED LIMIT (45)	45	24 X 30	1	---	5.00	---	---	---	
0010	1-11R	103+00	LT	D1-3	TRIPLE DESTINATION/ ARROW	< HILLSBORO	72 X 36	---	---	18.00	---	---	---	
						LA FARGE >	---	---	---	---	---	---	---	
						CASHTON	---	---	---	---	---	---	---	
0010	1-12	103+30	LT	D1-3	TRIPLE DESTINATION/ ARROW	< HILLSBORO	66 X 36	2	---	16.50	---	1	2	
						LA FARGE >	---	---	---	---	---	---	---	
						CASHTON	---	---	---	---	---	---	---	
0010	1-13	104+50	RT	I55-56	ADOPT A HIGHWAY	ONTARIO COMMUNITY CLUB	30 X 36	1	---	7.50	---	1	1	
0010	1-14R	104+75	RT	R2-1	SPEED LIMIT (45)	45	24 X 30	---	---	---	---	1	1	
0010	1-15	104+75	LT	J2-3	ROUTE TURN ASSEMBLY	EAST, WEST, SOUTH	72 X 57	---	2	28.50	---	---	---	
						33, 33, 131	---	---	---	---	---	---	---	
						AHEAD LT, AHEAD RT, AHEAD RT	---	---	---	---	---	---	---	
0010	1-16R	104+75	LT	J2-3	ROUTE TURN ASSEMBLY	EAST, WEST, SOUTH	72 X 57	---	---	---	---	1	2	
						33, 33, 131	---	---	---	---	---	---	---	
						AHEAD LT, AHEAD RT, AHEAD RT	---	---	---	---	---	---	---	
0010	1-17	105+50	LT	R1-1	STOP	---	30 X 30	1	---	5.18	---	---	---	
0010	1-18R	105+50	LT	R1-1	STOP	---	30 X 30	---	---	---	---	1	1	
0010	1-19	106+25	RT	R1-1	STOP	---	30 X 30	1	---	5.18	---	---	---	
0010	1-20R	106+25	RT	R1-1	STOP	---	30 X 30	---	---	---	---	1	1	
0010	1-21	107+50	LT	W3-1	STOP AHEAD	---	36 X 36	---	1	---	9.00	---	---	
0010	1-22R	108+00	LT	W3-1	STOP AHEAD	---	36 X 36	---	---	---	---	1	1	
0010	1-23R	109+50	LT	D1-56R	DESTINATION ARROW (RT ARROW)	BUSINESS DIST	90 X 12	---	---	---	---	1	2	
0010	1-24	110+00	LT	J1-1	JUNCTION ASSEMBLY	JCT	24 X 39	1	---	6.50	---	---	---	
						33	---	---	---	---	---	---	---	
0010	1-25R	110+50	LT	J1-1	JUNCTION ASSEMBLY	JCT	24 X 39	---	---	---	---	1	1	
						33	---	---	---	---	---	---	---	
0010	1-26	112+00	LT	D1-56R	DESTINATION ARROW (RT ARROW)	BUSINESS DIST	90 X 12	2	---	7.50	---	---	---	
0010	1-27R	113+50	LT	R2-1	SPEED LIMIT (45)	45	24 X 30	---	---	---	---	1	1	
0010	1-28	113+50	LT	R2-1	SPEED LIMIT (45)	45	24 X 30	1	---	5.00	---	---	---	
0010	1-29R	113+50	RT	R2-1	SPEED LIMIT (55)	55	24 X 30	---	---	---	---	1	1	
0010	1-30	113+50	RT	R2-1	SPEED LIMIT (55)	55	24 X 30	1	---	5.00	---	---	---	

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														PERMANENT SIGNING		634.0614		634.0616	637.2210	637.2230	638.2602	638.3000		
																POSTS	POSTS	WOOD	WOOD	SIGNS	SIGNS	REMOVING	REMOVING	
																4X6-INCH	4X6-INCH	14-FT	16-FT	TYPE II	TYPE II	TYPE II	SMALL	
CATEGORY	SIGN NO	APPROX STATION	LOCATION	SIGN CODE	DESCRIPTION	MESSAGE	SIZE	14-FT	16-FT	REFLECTIVE H	REFLECTIVE F	TYPE II	SUPPORTS			EACH	EACH	14-FT	16-FT	SF	SF	EACH	EACH	REMARKS
0010	5-02	223+40	LT	R1-1	STOP	---	30 X 30	1	---	5.18	---	---	---			---	---	---	---	---	---	---	---	
0010	5-03	224+30	RT	R1-1	STOP	---	30 X 30	1	---	5.18	---	---	---			---	---	---	---	---	---	---	---	
0010	5-04R	224+30	RT	R1-1	STOP	---	30 X 30	---	---	---	---	1	1			---	---	---	---	---	---	---	---	
0010	5-05	225+50	RT	J1-1	JUNCTION ASSEMBLY	JCT	24 X 39	1	---	6.50	---	---	---			---	---	---	---	---	---	---	---	
0010	5-06R	225+50	RT	J1-1	JUNCTION ASSEMBLY	T	---	---	---	---	---	---	---			---	---	---	---	---	---	---	---	
						JCT	24 X 39	---	---	---	---	1	1			---	---	---	---	---	---	---	---	
						T	---	---	---	---	---	---	---			---	---	---	---	---	---	---	---	
0010	5-07	231+75	LT	W2-1	CROSS ROAD SYMBOL	---	30 X 30	---	---	---	---	1	1			---	---	---	---	---	---	---	---	
0010	5-08R	231+75	LT	W2-1	CROSS ROAD SYMBOL	---	30 X 30	1	---	---	6.25	---	---			---	---	---	---	---	---	---	---	
0010	50-9R	234+50	LT	J4-1	REASSURANCE ASSEMBLY	SOUTH	24 X 39	---	---	---	---	1	1			---	---	---	---	---	---	---	---	
0010	5-10	234+50	LT	J4-1	REASSURANCE ASSEMBLY	131	---	---	---	---	---	---	---			---	---	---	---	---	---	---	---	
						SOUTH	24 X 39	1	---	6.50	---	---	---			---	---	---	---	---	---	---	---	
						131	---	---	---	---	---	---	---			---	---	---	---	---	---	---	---	
0010	5-11	234+90	LT	J13-1	DIRECTIONAL ASSEMBLY	131	24 X 45	1	---	7.50	---	---	---			---	---	---	---	---	---	---	---	
0010	5-12R	234+90	LT	J13-1	DIRECTIONAL ASSEMBLY	DOUBLE ARROW	---	---	---	---	---	---	---			---	---	---	---	---	---	---	---	
						131	24 X 45	---	---	---	---	1	1			---	---	---	---	---	---	---	---	
						DOUBLE ARROW	---	---	---	---	---	---	---			---	---	---	---	---	---	---	---	
0010	5-13	235+00	LT	R1-1	STOP	---	30 X 30	1	---	5.18	---	---	---			---	---	---	---	---	---	---	---	
0010	5-14R	235+00	LT	R1-1	STOP	---	30 X 30	---	---	---	---	1	1			---	---	---	---	---	---	---	---	
0010	5-15	235+00	RT	J13-1	DIRECTIONAL ASSEMBLY	T	24 X 45	1	---	7.50	---	---	---			---	---	---	---	---	---	---	---	
0010	5-16R	235+00	RT	J13-1	DIRECTIONAL ASSEMBLY	LEFT ARROW	---	---	---	---	---	---	---			---	---	---	---	---	---	---	---	
						T	24 X 45	---	---	---	---	1	1			---	---	---	---	---	---	---	---	
						LEFT ARROW	---	---	---	---	---	---	---			---	---	---	---	---	---	---	---	
0010	5-17	235+30	RT	W1-7	TWO DIRECTION LARGE ARROW	---	48 X 24	1	---	---	8.00	---	---			---	---	---	---	---	---	---	---	
0010	5-18R	235+30	RT	W1-7	TWO DIRECTION LARGE ARROW	---	48 X 24	---	---	---	---	1	1			---	---	---	---	---	---	---	---	
0010	5-19	236+00	RT	J4-1	REASSURANCE ASSEMBLY	NORTH	24 X 36	1	---	6.00	---	---	---			---	---	---	---	---	---	---	---	
0010	5-20R	236+00	RT	J4-1	REASSURANCE ASSEMBLY	131	---	---	---	---	---	---	---			---	---	---	---	---	---	---	---	
						NORTH	24 X 36	---	---	---	---	1	1			---	---	---	---	---	---	---	---	
						131	---	---	---	---	---	---	---			---	---	---	---	---	---	---	---	
0010	5-21	236+00	LT	J13-1	DIRECTIONAL ASSEMBLY	T	24 X 45	1	---	7.50	---	---	---			---	---	---	---	---	---	---	---	
0010	5-22R	236+00	LT	J13-1	DIRECTIONAL ASSEMBLY	RIGHT ARROW	---	---	---	---	---	---	---			---	---	---	---	---	---	---	---	
						T	24 X 45	---	---	---	---	1	1			---	---	---	---	---	---	---	---	
						RIGHT ARROW	---	---	---	---	---	---	---			---	---	---	---	---	---	---	---	
0010	5-23	239+00	RT	S1-1	SCHOOL CROSSWALK AHEAD	PEDESTRIAN PENTAGON	36 X 66	---	1	16.50	---	---	---			---	---	---	---	---	---	---	---	
0010	5-24R	239+00	RT	S1-1	SCHOOL CROSSWALK AHEAD	YELLOW	---	---	---	---	---	---	---			---	---	---	---	---	---	---	---	
						AHEAD PLAQUE	---	---	---	---	---	---	---			---	---	---	---	---	---	---	---	
						FINES HIGHER	---	---	---	---	---	---	---			---	---	---	---	---	---	---	---	
0010	5-24R	239+00	RT	S1-1	SCHOOL CROSSWALK AHEAD	PEDESTRIAN PENTAGON	36 X 66	---	---	16.50	---	1	1			---	---	---	---	---	---	---	---	
0010	5-25	241+00	RT	W14-3	NO PASSING ZONE PENNANT	YELLOW	---	---	---	---	---	---	---			---	---	---	---	---	---	---	---	
						AHEAD PLAQUE	---	---	---	---	---	---	---			---	---	---	---	---	---	---	---	
						FINES HIGHER	---	---	---	---	---	---	---			---	---	---	---	---	---	---	---	
0010	5-25	241+00	RT	W14-3	NO PASSING ZONE PENNANT	---	48 X 36	1	---	---	6.00	---	---			---	---	---	---	---	---	---	---	
0010	5-26R	241+00	RT	W14-3	NO PASSING ZONE PENNANT	---	48 X 36	---	---	---	---	1	1			---	---	---	---	---	---	---	---	
0010	5-27	242+00	LT	S5-2	END SCHOOL ZONE	---	24 X 30	1	---	5.00	---	---	---			---	---	---	---	---	---	---	---	
0010	5-28R	244+75	LT	R1-1	STOP	---	30 X 30	---	---	---	---	1	1			---	---	---	---	---	---	---	---	
0010	5-29	244+75	LT	R1-1	STOP	---	30 X 30	1	---	5.18	---	---	---			---	---	---	---	---	---	---	---	
0010	5-30	246+00	LT	J1-1	JUNCTION ASSEMBLY	JCT	24 X 39	1	---	6.50	---	---	---			---	---	---	---	---	---	---	---	
0010	5-31R	247+00	LT	J1-1	JUNCTION ASSEMBLY	T	---	---	---	---	---	---	---			---	---	---	---	---	---	---	---	
						JCT	24 X 39	---	---	---	---	1	1			---	---	---	---	---	---	---	---	
						T	---	---	---	---	---	---	---			---	---	---	---	---	---	---	---	

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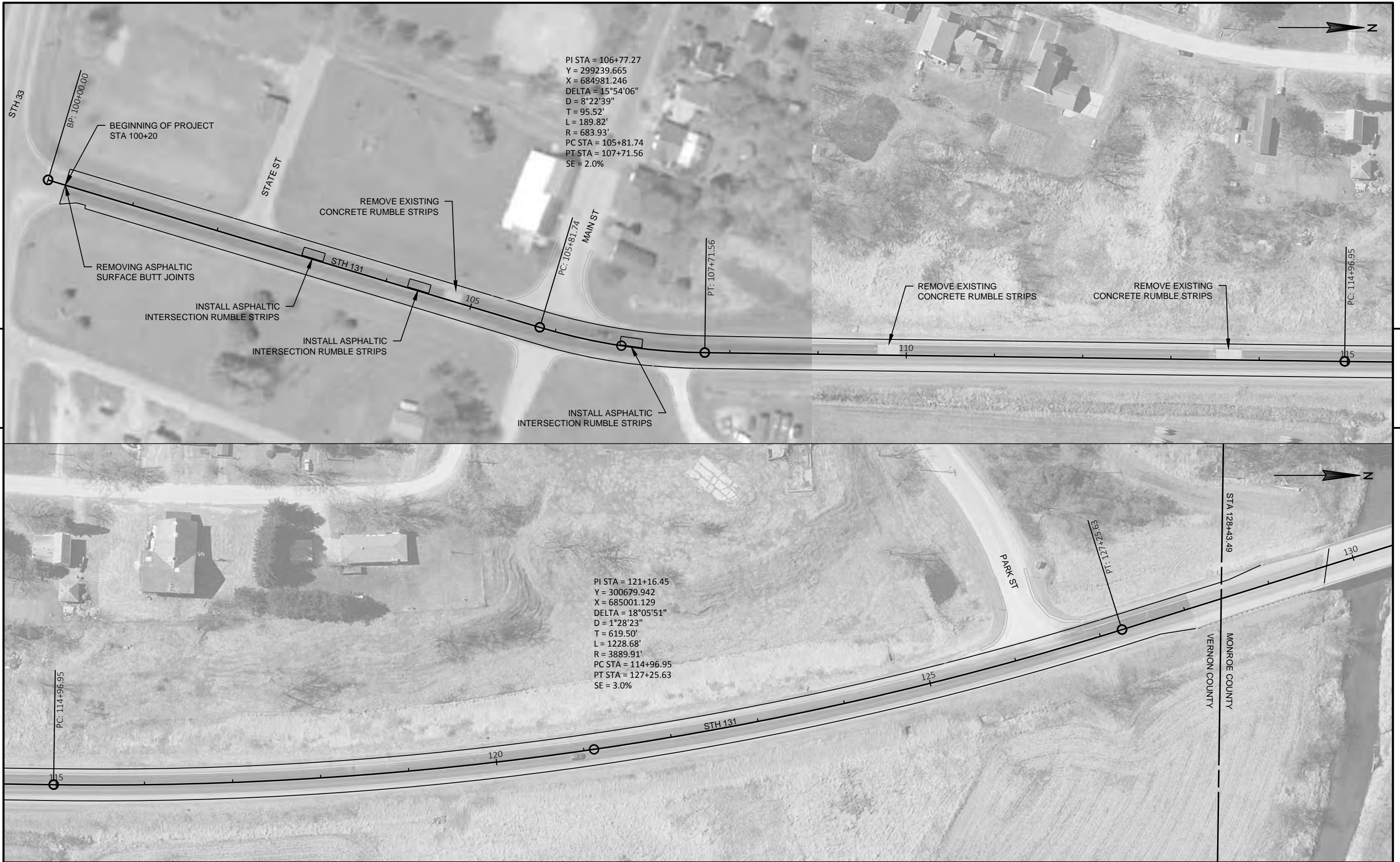
PROJECT NO: 5130-02-62	HWY: STH 131	COUNTY: MONROE & VERNON	MISCELLANEOUS QUANTITIES	SHEET:	E
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														<u>PERMANENT SIGNING</u>	
														634.0614	634.0616
														POSTS	POSTS
														WOOD	WOOD
														4X6-INCH	4X6-INCH
														14-FT	16-FT
														EACH	EACH
CATEGORY	SIGN NO	APPROX STATION	LOCATION	SIGN CODE	DESCRIPTION	MESSAGE	SIZE	IN	X	IN	REFLECTIVE H	REFLECTIVE F	TYPE II	TYPE II	TYPE II
											SF	SF			
0010	14-04R	492+00	RT	I2-3	POPULATION SIGN	WILTON	60 X 24	---			---	---	1		1
						POPULATION 519	---	---			---	---	---		---
0010	14-05	494+25	LT	R2-1	SPEED LIMIT (35)	35	24 X 30	1			5.00	---	---		---
0010	14-06R	494+25	LT	R2-1	SPEED LIMIT (35)	35	24 X 30	---			---	---	1		1
0010	14-07R	494+25	RT	R2-1	SPEED LIMIT (55)	55	24 X 30	---			---	---	1		1
0010	14-08	494+25	RT	R2-1	SPEED LIMIT (55)	55	24 X 30	1			5.00	---	---		---
								<u>84</u>		<u>8</u>		<u>502</u>		<u>158</u>	
TOTAL 0010														<u>80</u>	
														<u>83</u>	

SAWING ASPHALT

						690.0150		
CATEGORY	STATION	TO	STATION	LOCATION		LF	REMARKS	
0010	104+70	-	104+88	LT		60		
0010	109+67	-	109+93	LT		80		
0010	113+50	-	113+80	LT		90		
TOTAL 0010						<u>230</u>		



PROJECT NO: 5130-02-62	HWY: STH 131	COUNTY: MONROE	PLAN SHEETS	SHEET	E
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PROJECT NO: 5130-02-62	HWY: STH 131	COUNTY: MONROE	PLAN SHEETS	SHEET	E
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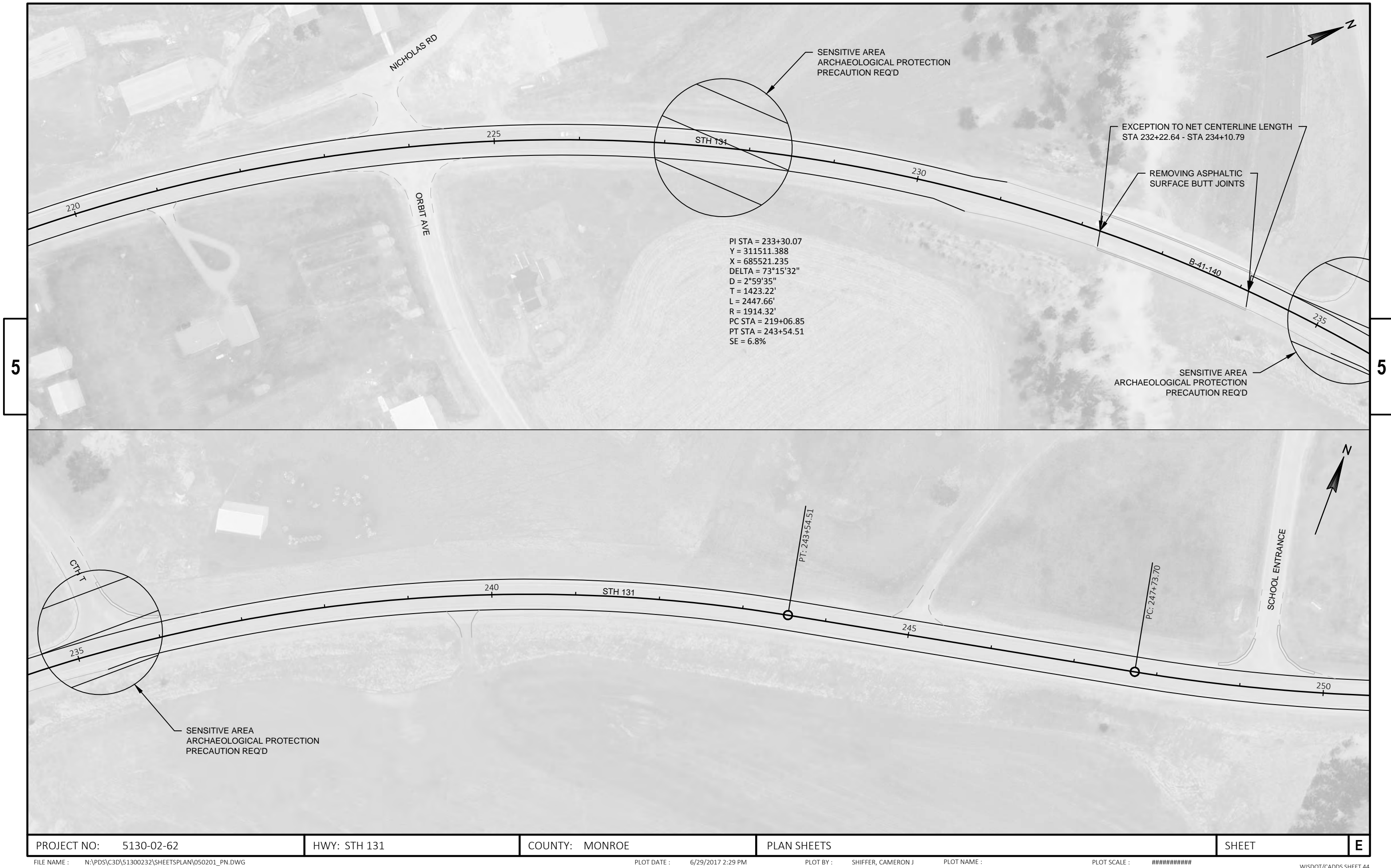
5

PI STA = 181+31.37
Y = 306290.904
X = 685383.169
DELTA = 26°16'08"
D = 1°59'27"
T = 671.51'
L = 1319.42'
R = 2877.82'
PC STA = 174+59.86
PT STA = 187+79.28
SE = 5.1%

PROJECT NO: 5130-02-62	HWY: STH 131	COUNTY: MONROE	PLAN SHEETS	SHEET	E
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PROJECT NO: 5130-02-62	HWY: STH 131	COUNTY: MONROE	PLAN SHEETS	SHEET	E
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PROJECT NO: 5130-02-62

HWY: STH 131

COUNTY: MONROE

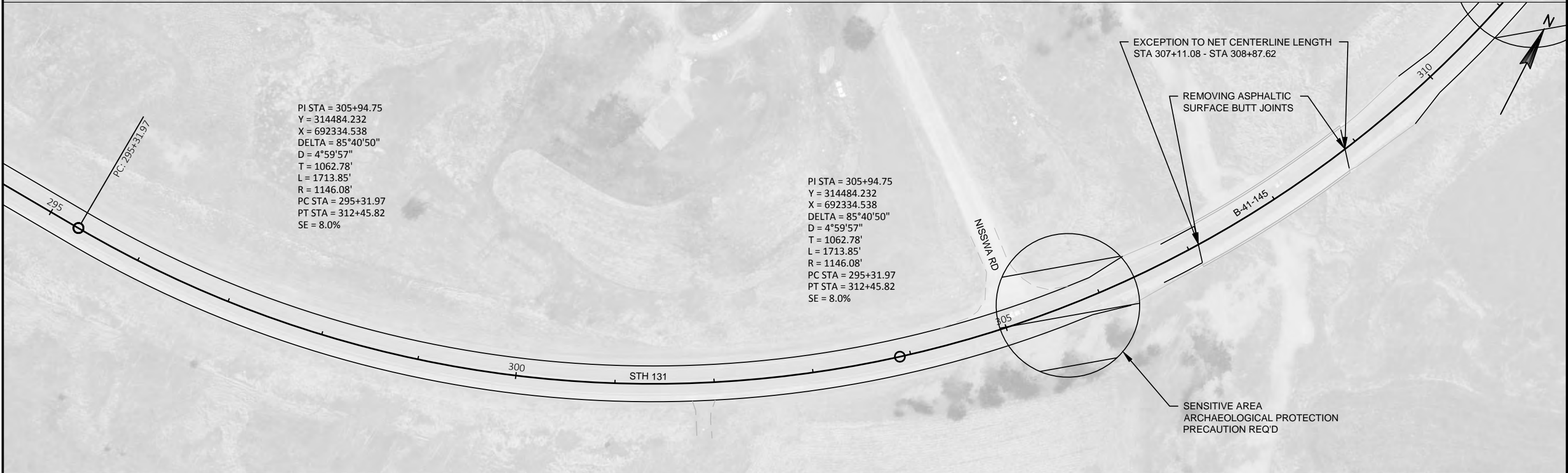
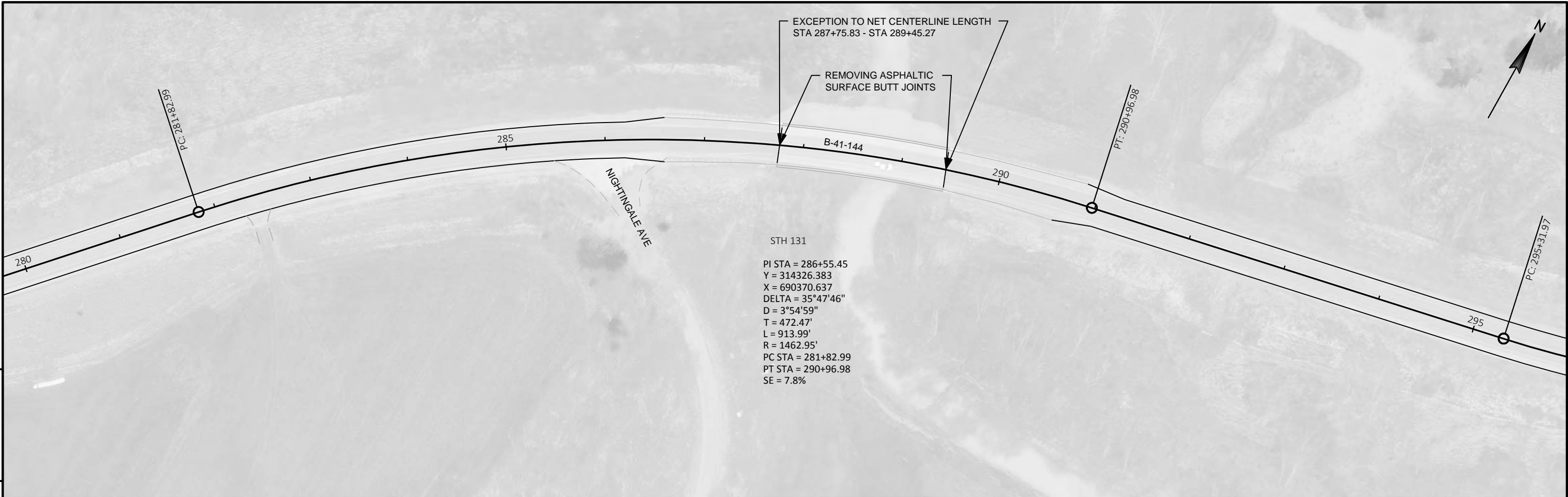
PLAN SHEETS

SHEET

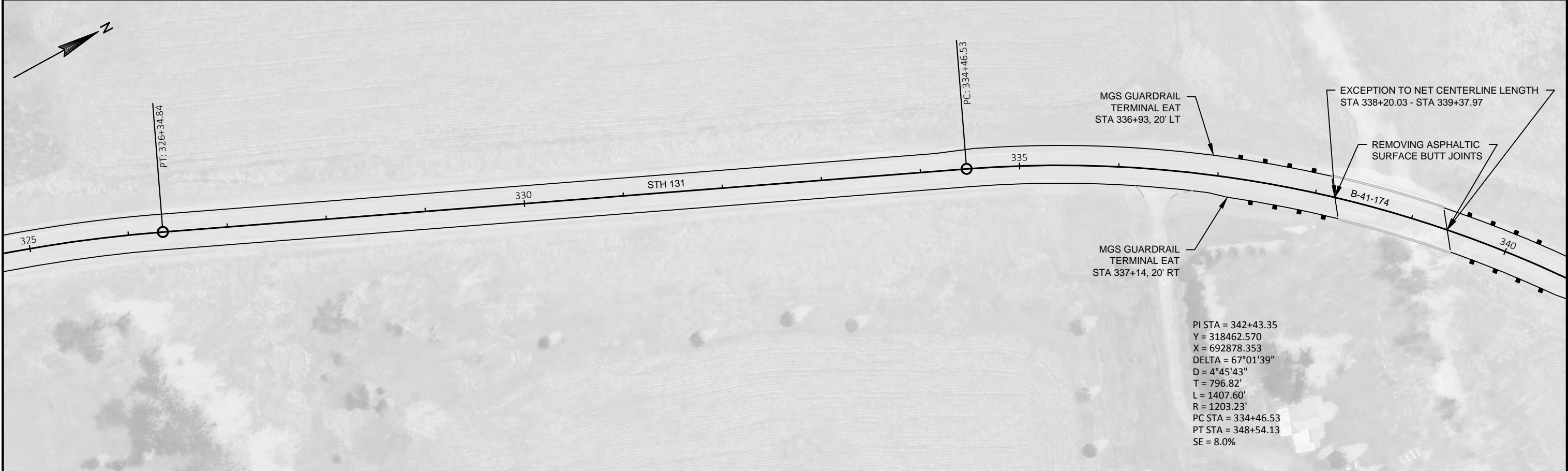
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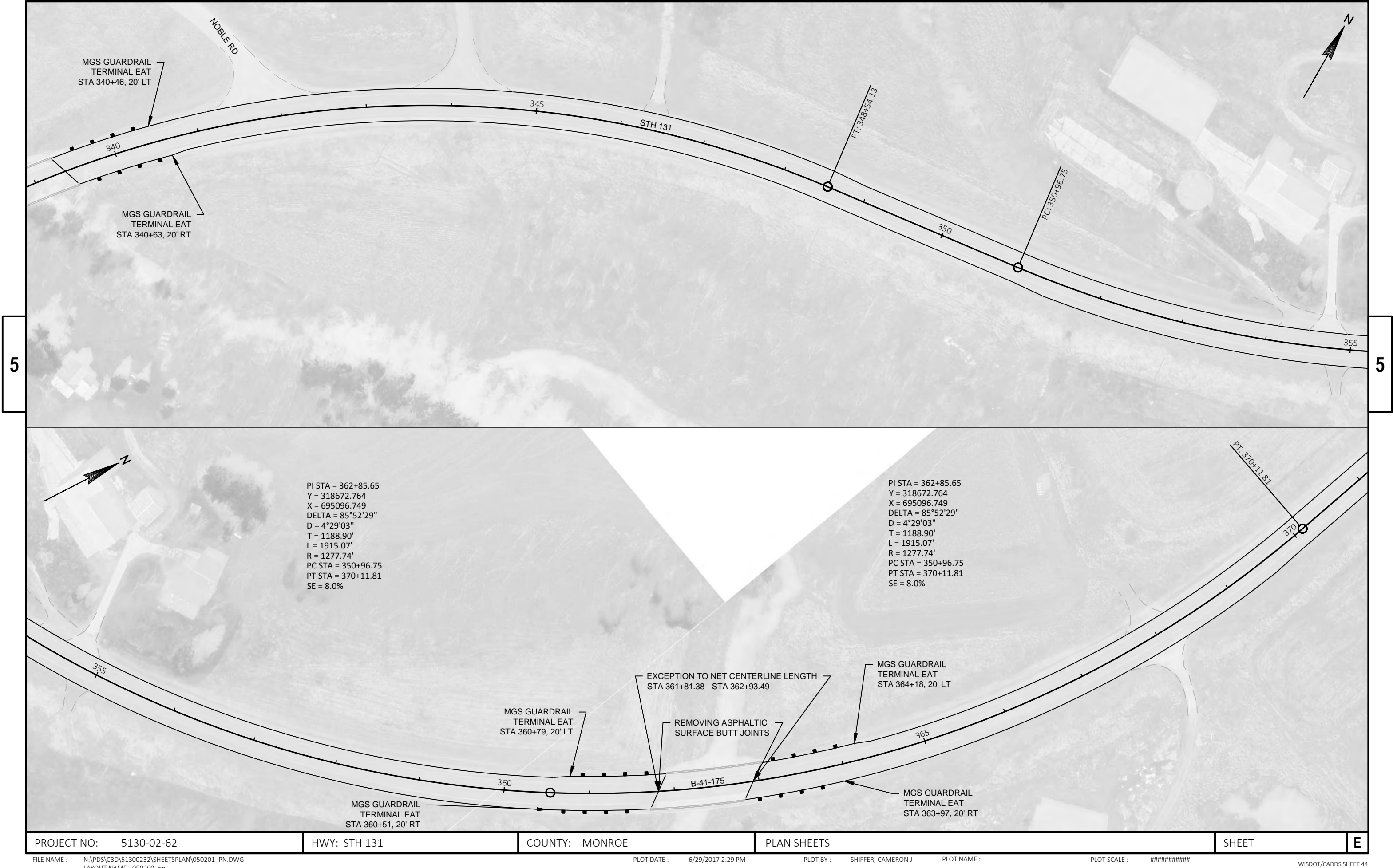
PROJECT NO: 5130-02-62	HWY: STH 131	COUNTY: MONROE	PLAN SHEETS	SHEET	E
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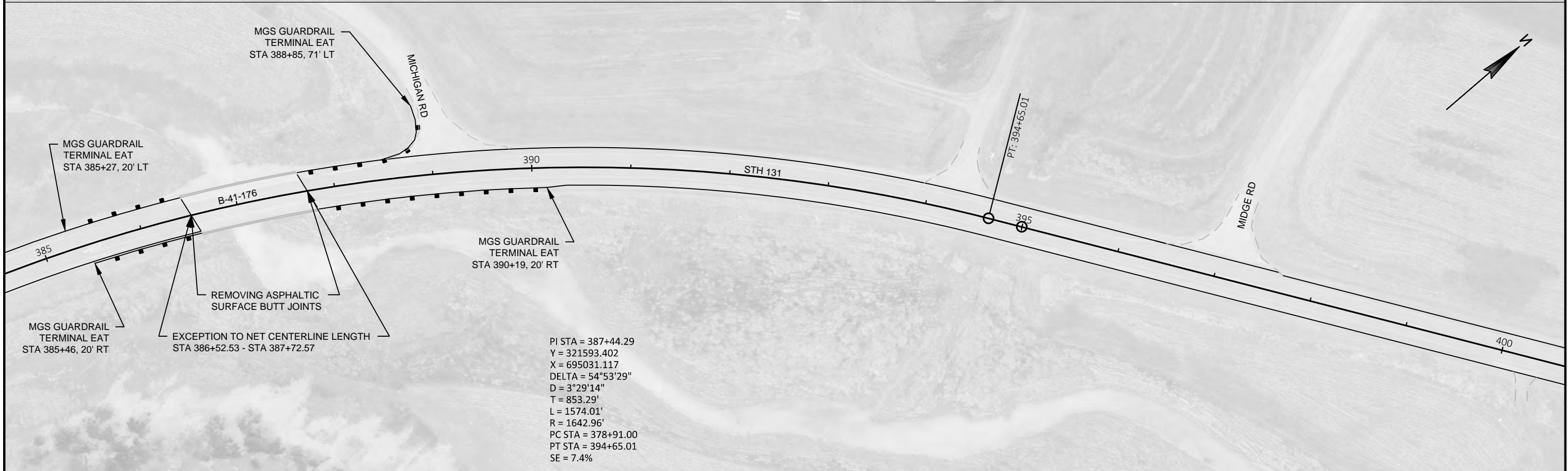
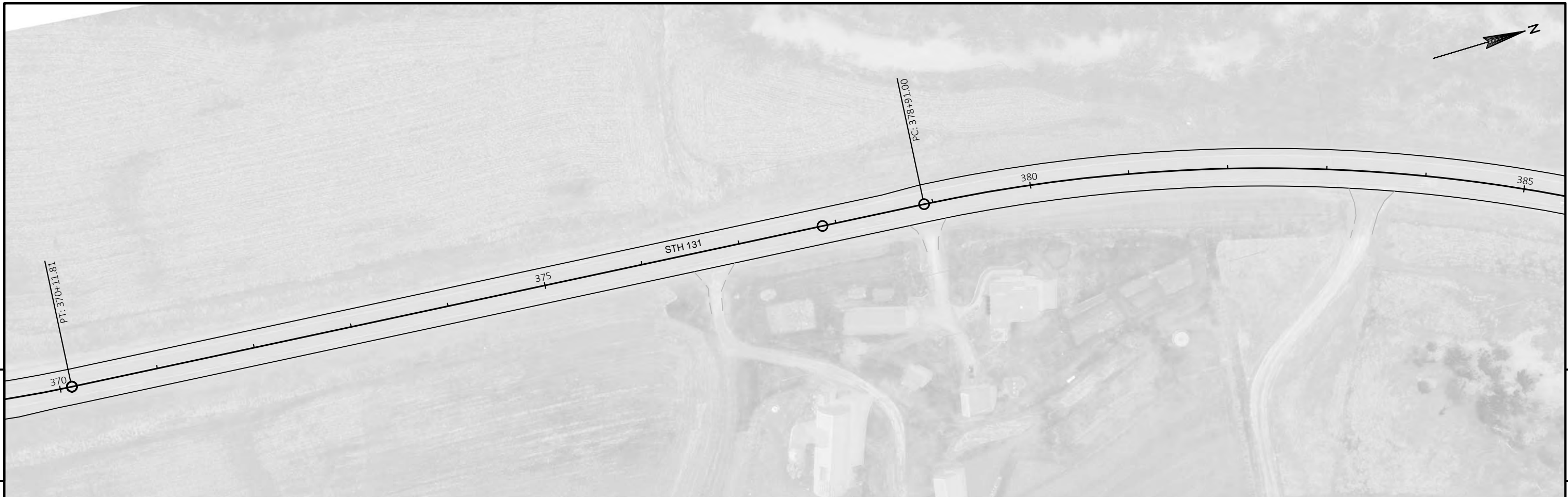


PROJECT NO: 5130-02-62	HWY: STH 131	COUNTY: MONROE	PLAN SHEETS	SHEET	E
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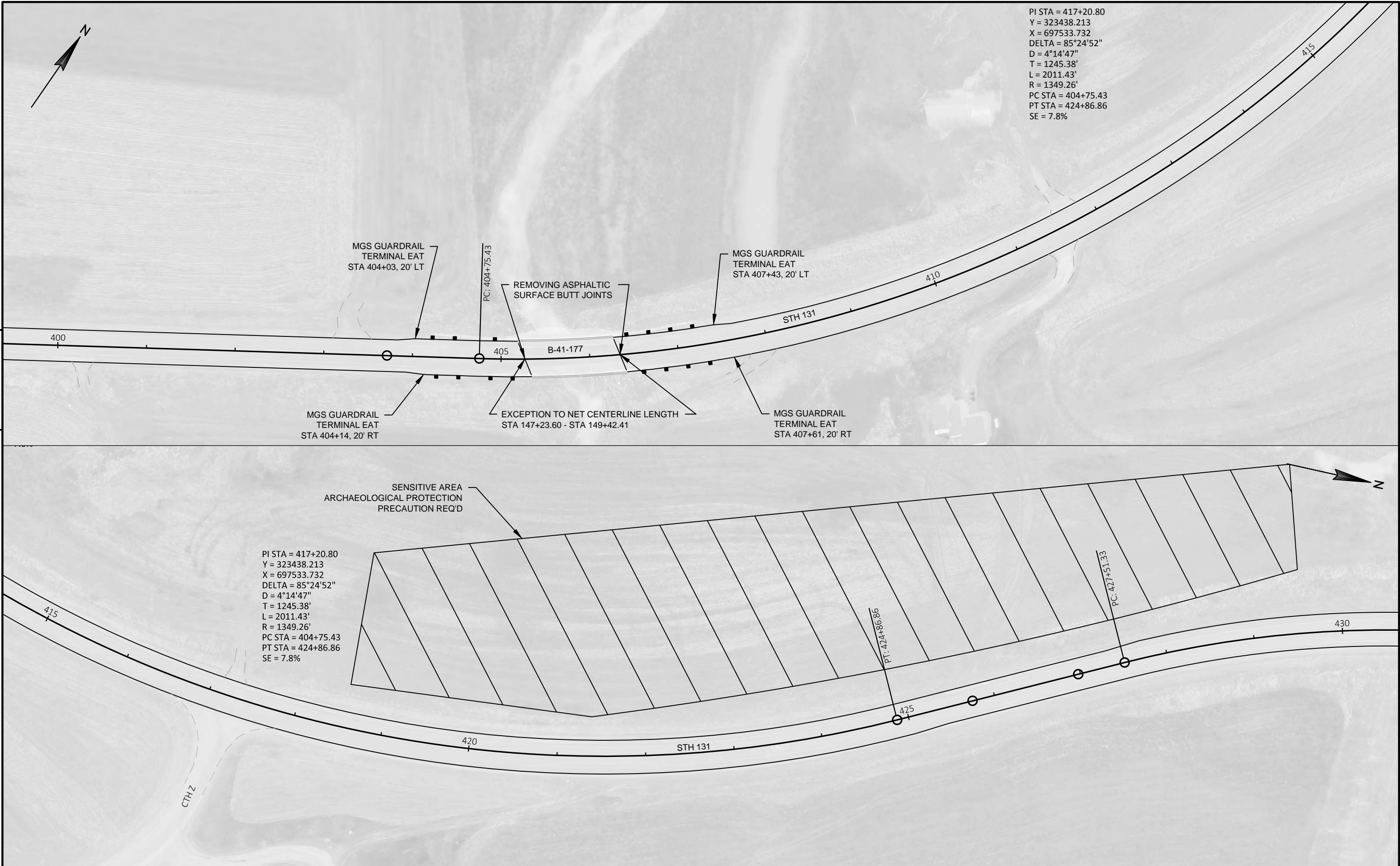


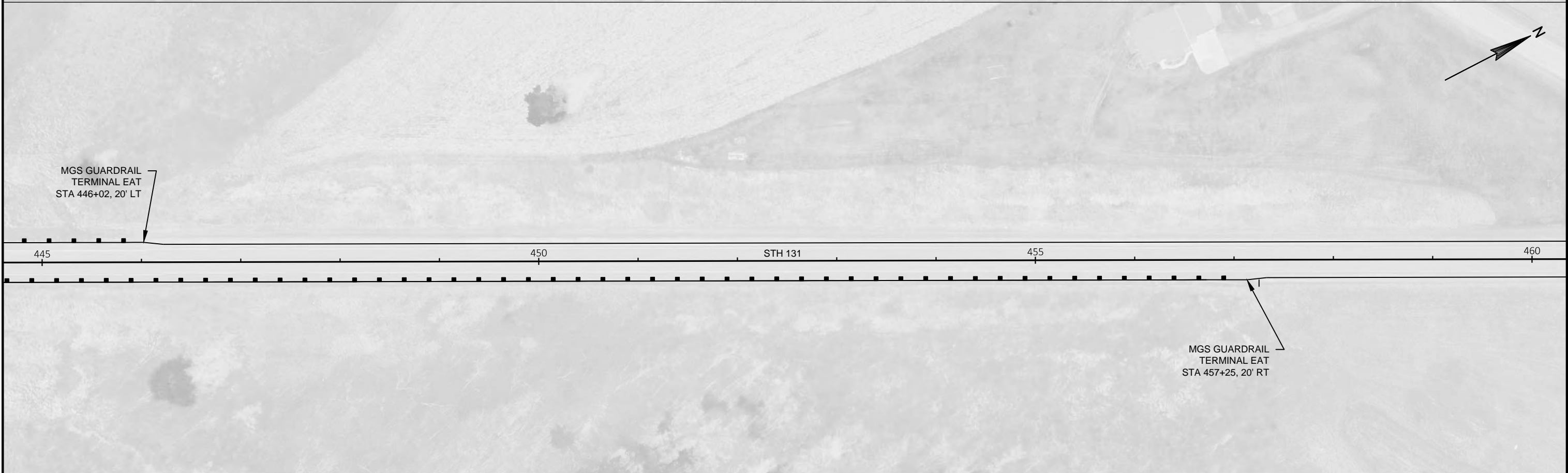
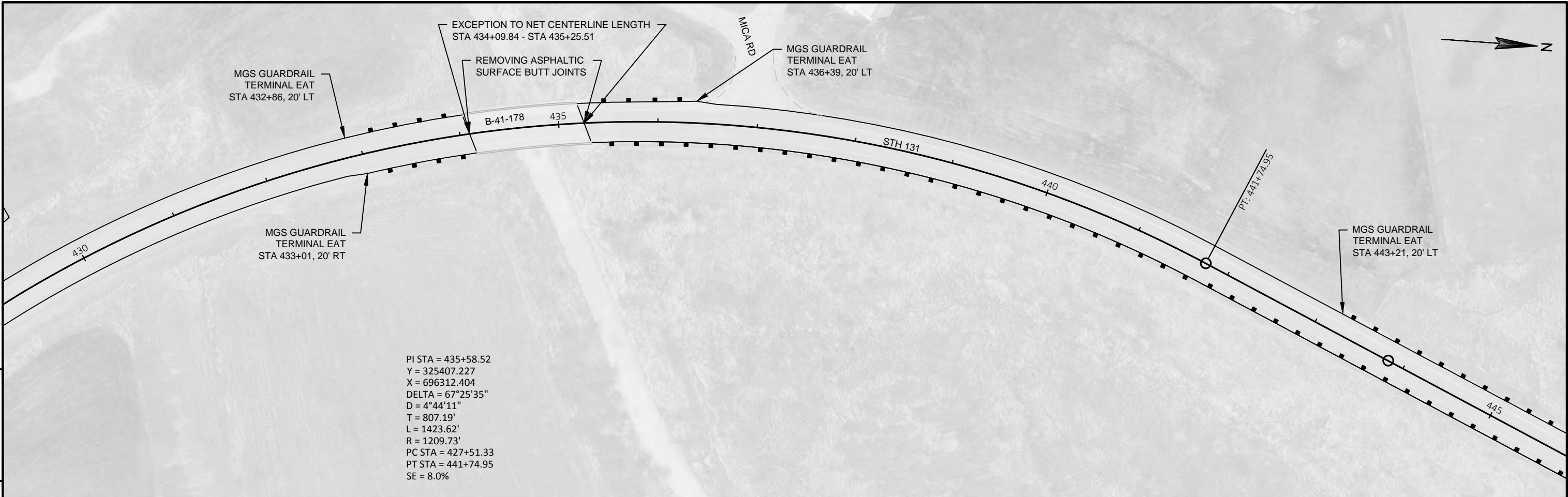
PROJECT NO: 5130-02-62	HWY: STH 131	COUNTY: MONROE	PLAN SHEETS	SHEET	E
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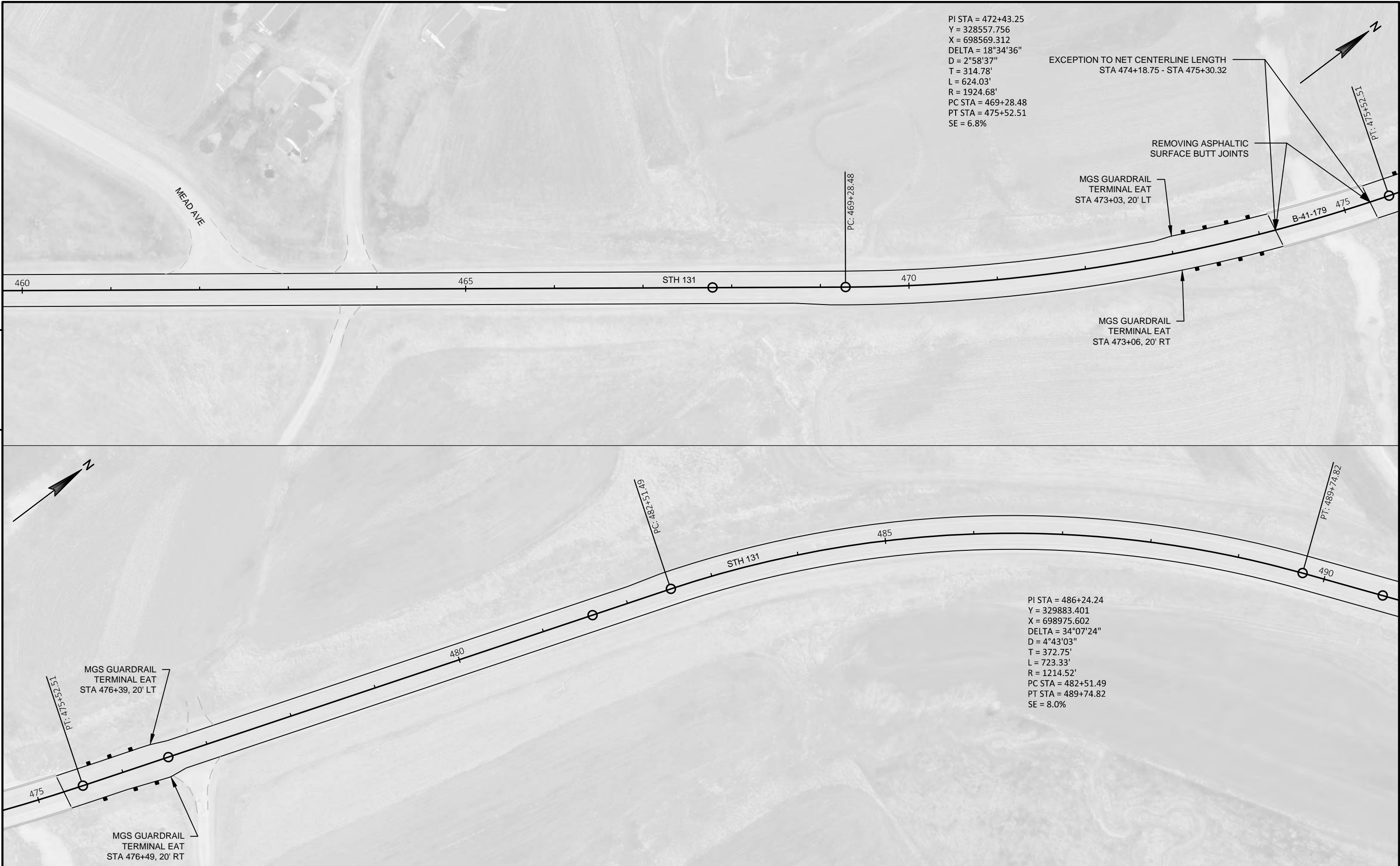


PROJECT NO: 5130-02-62	HWY: STH 131	COUNTY: MONROE	PLAN SHEETS	SHEET	E
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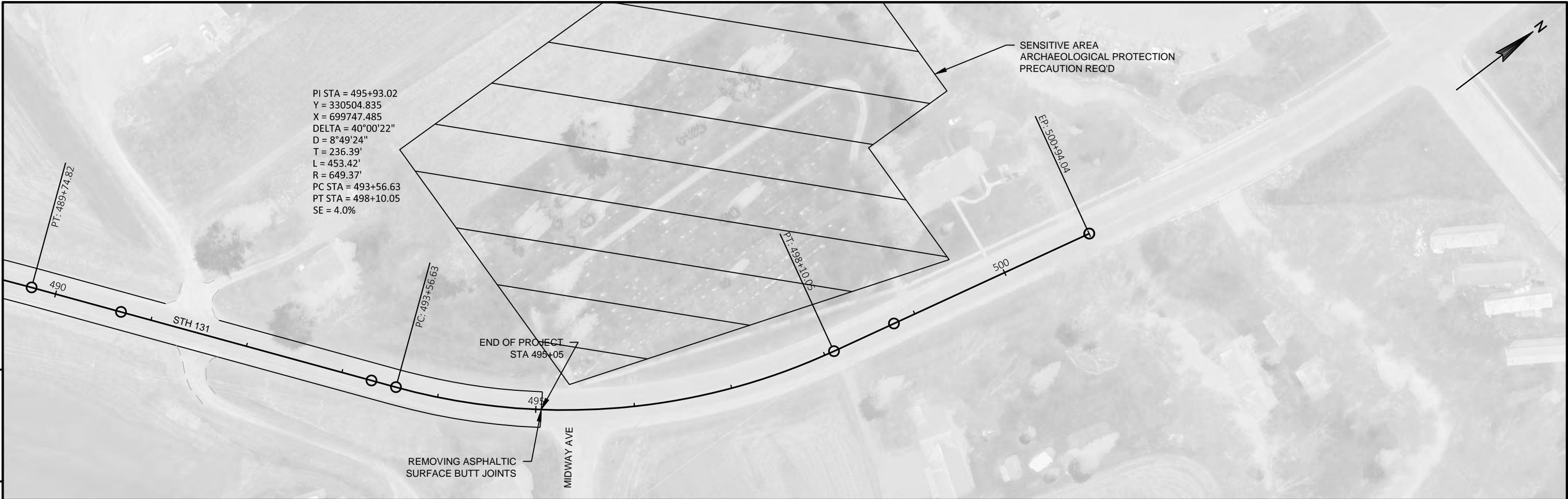
PROJECT NO: 5130-02-62	HWY: STH 131	COUNTY: MONROE	PLAN SHEETS	SHEET	E
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PROJECT NO: 5130-02-62	HWY: STH 131	COUNTY: MONROE	PLAN SHEETS	SHEET	E
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Standard Detail Drawing List

08E09-06	SILT FENCE
13A08-01	ASPHALTIC RUMBLE STRIPS AT INTERSECTION
13A11-02A	2-LANE RURAL CENTER LINE RUMBLE STRIP, MILLING
13A11-02B	2-LANE RURAL CENTER LINE RUMBLE STRIP, MILLING
14B42-04A	MIDWEST GUARDRAIL SYSTEM (MGS) GUARDRAIL
14B42-04B	MIDWEST GUARDRAIL SYSTEM (MGS) GUARDRAIL
14B42-04C	MIDWEST GUARDRAIL SYSTEM (MGS) GUARDRAIL
14B44-02A	MIDWEST GUARDRAIL SYSTEM ENERGY ABSORBING TERMINAL (MGS)
14B44-02B	MIDWEST GUARDRAIL SYSTEM ENERGY ABSORBING TERMINAL (MGS)
14B44-02C	MIDWEST GUARDRAIL SYSTEM ENERGY ABSORBING TERMINAL (MGS)
14B45-04A	MIDWEST GUARDRAIL SYSTEM THRIE BEAM TRANSITION (MGS)
14B45-04B	MIDWEST GUARDRAIL SYSTEM THRIE BEAM TRANSITION (MGS)
14B45-04C	MIDWEST GUARDRAIL SYSTEM THRIE BEAM TRANSITION (MGS)
14B45-04D	MIDWEST GUARDRAIL SYSTEM THRIE BEAM TRANSITION (MGS)
14B47-02A	MIDWEST GUARDRAIL SYSTEM (MGS) TYPE 2 TERMINAL
14B47-02B	MIDWEST GUARDRAIL SYSTEM (MGS) TYPE 2 TERMINAL
14B47-02C	MIDWEST GUARDRAIL SYSTEM (MGS) TYPE 2 TERMINAL
15C05-03	TRAFFIC CONTROL, ADVANCE WARNING SIGNS 40 M. P. H. OR LESS
15C06-08	SIGNING & MARKING FOR TWO LANE BRIDGES
15C08-17A	LONGITUDINAL MARKING (MAINLINE)
15C12-04	TRAFFIC CONTROL FOR LANE CLOSURE (SUITABLE FOR MOVING OPERATIONS)
15C19-04A	MOVING PAVEMENT MARKING OPERATION TWO-LANE TWO-WAY ROADWAY
15C35-01A	PAVEMENT MARKING (INTERSECTIONS)
15D28-03	TRAFFIC CONTROL, WORK ON SHOULDER OR PARKING LANE, UNDIVIDED ROADWAY

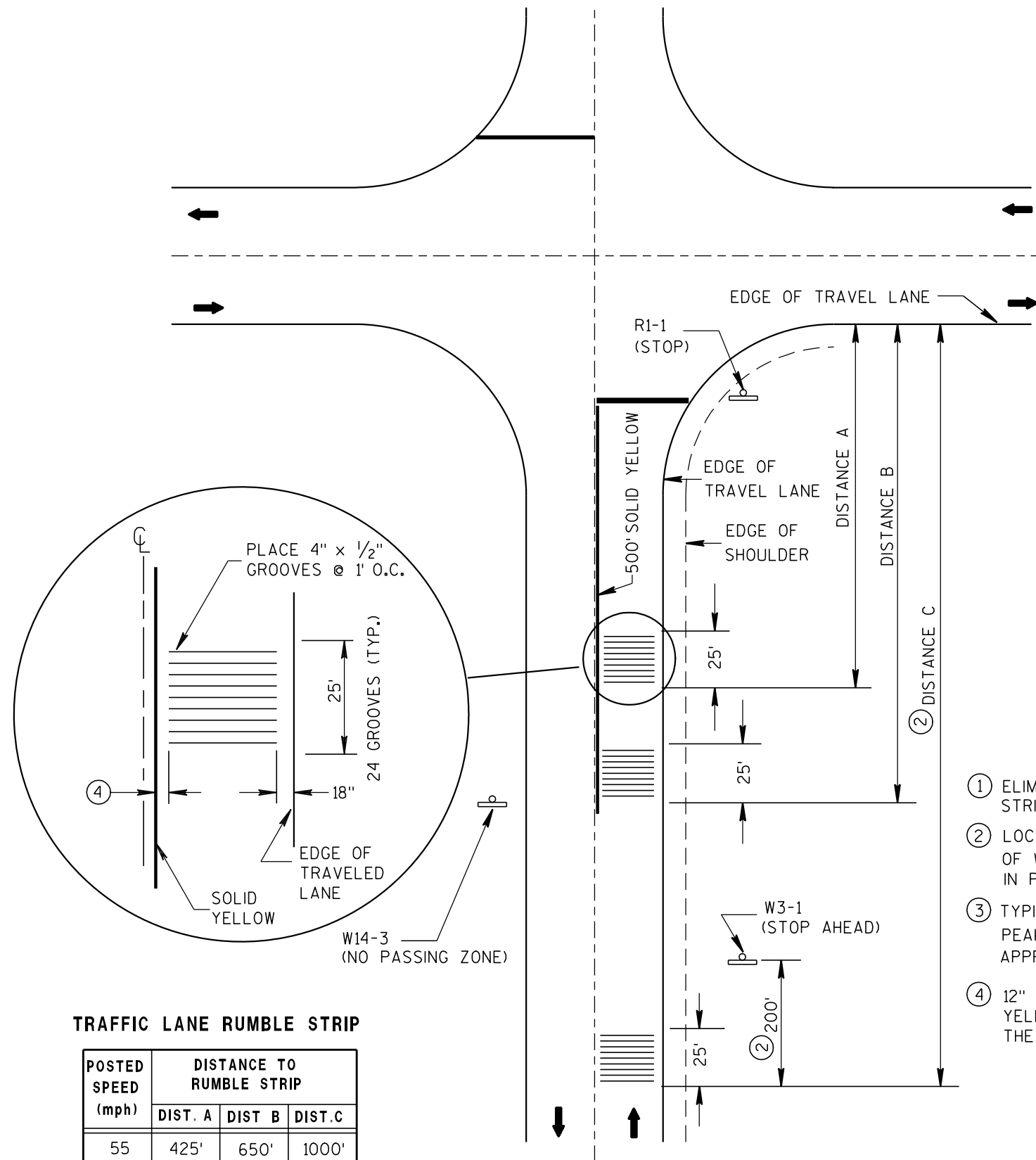


- ① HORIZONTAL BRACE REQUIRED WITH 2" X 4" WOODEN FRAME OR EQUIVALENT AT TOP OF POSTS.
- ② FOR MANUAL INSTALLATIONS THE TRENCH SHALL BE A MINIMUM OF 4" WIDE & 6" DEEP TO BURY AND ANCHOR THE GEOTEXTILE FABRIC. FOLD MATERIAL TO FIT TRENCH AND BACKFILL & COMPACT TRENCH WITH EXCAVATED SOIL.
- ③ WOOD POSTS SHALL BE A MINIMUM SIZE OF 1 1/8" X 1 1/8" 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.



<p style="text-align: center;">SILT FENCE</p>	
<p style="text-align: center;">STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION</p>	
<p>APPROVED <u>4-29-05</u> DATE</p>	<p><u>/S/ Beth Cannestra</u> CHIEF ROADWAY DEVELOPMENT ENGINEER</p>

FHWA



TRAFFIC LANE RUMBLE STRIP

POSTED SPEED (mph)	DISTANCE TO RUMBLE STRIP		
	DIST. A	DIST. B	DIST. C
55	425'	650'	1000'
50	325'	450'	800'
45	275'	400'	650'
40	225'	①	550'
35	175'	①	475'
≤ 30	125'	①	425'

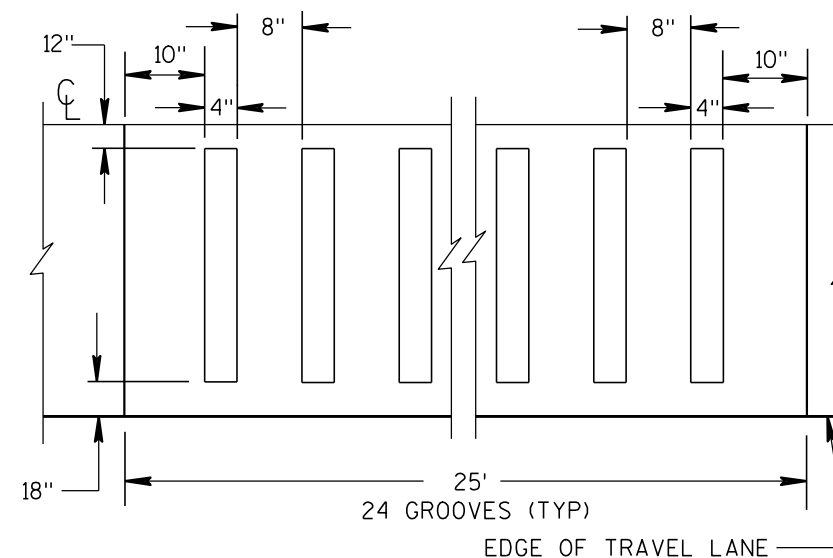
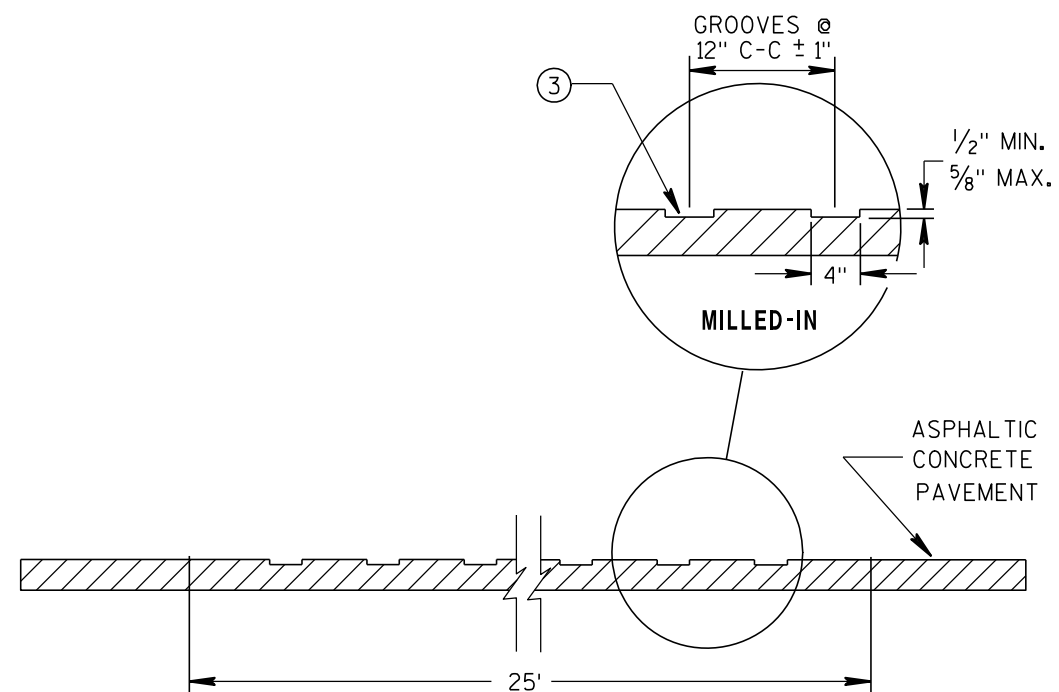
- ① ELIMINATE THE MIDDLE SET OF RUMBLE STRIPS.
- ② LOCATE RUMBLE STRIP 200' IN ADVANCE OF W3-1 SIGN AS SHOWN. IF W3-1 IS NOT IN PLACE, USE DISTANCE C.
- ③ TYPICAL VERTICAL VARIATION BETWEEN PEAKS AND VALLEYS WITHIN THE CUT APPROXIMATELY $\frac{1}{16}$ "
- ④ 12" CLEAR BETWEEN THE SOLID YELLOW LINE AND THE EDGE OF THE RUMBLE.

GENERAL NOTES

CONTRACTOR SHALL CONFIRM RUMBLE STRIP LOCATION WITH THE ENGINEER PRIOR TO INSTALLATION. THE ENGINEER MAY MODIFY THE RUMBLE STRIP LOCATION AS FIELD CONDITIONS DICTATE.

WHEN ASPHALTIC PAVEMENT IS NEW IN THE RUMBLE AREA THE CONTRACTOR SHALL ALLOW THE PAVEMENT TO CURE A MINIMUM OF 7 DAYS PRIOR TO RUMBLE INSTALLATION.

PAVEMENT MARKING AND SIGNING DETAILS AND SPECIFICATIONS ARE PROVIDED ELSEWHERE IN THE CONTRACT.

ASPHALTIC RUMBLE STRIPS
AT INTERSECTION

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED

8/17/2011

DATE

FHWA

/s/ Jerry H. Zogg

ROADWAY STANDARDS DEVELOPMENT

ENGINEER

GENERAL NOTES

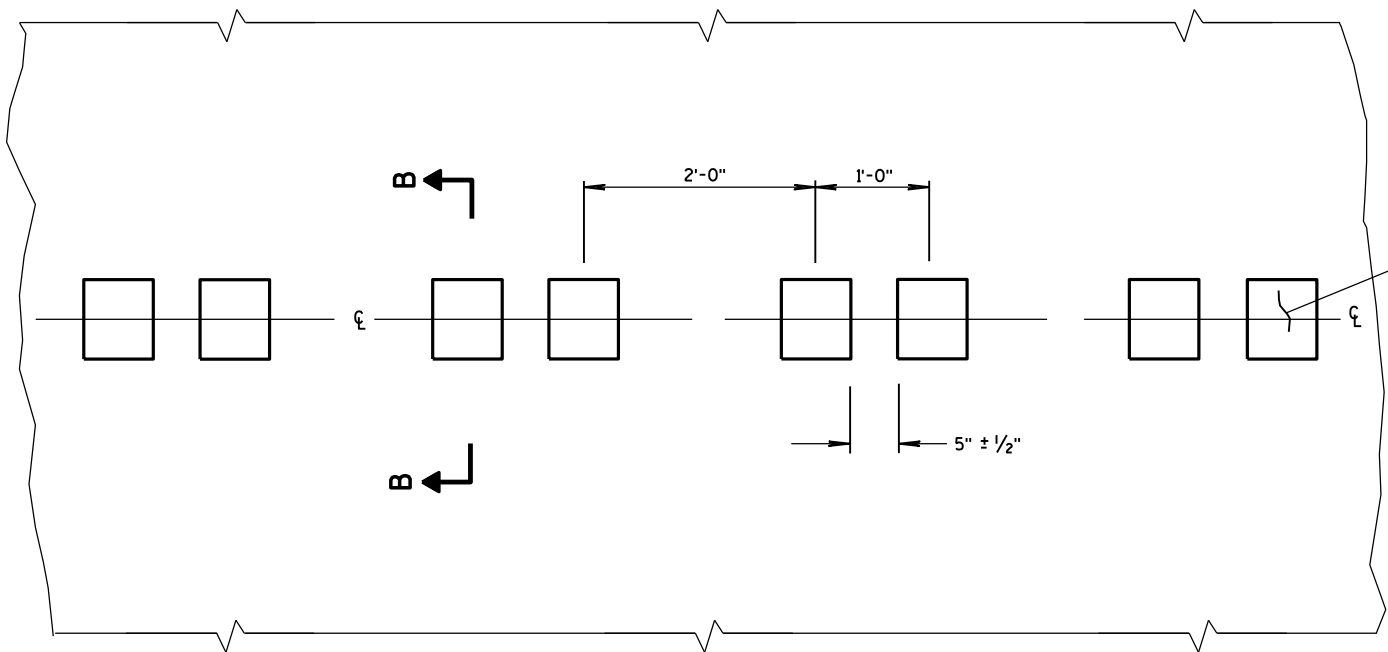
DETAILS OF CONSTRUCTION SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS AND APPLICABLE SPECIAL PROVISIONS.

DO NOT MILL CENTER LINE GROOVES THROUGH ANY INTERSECTION, MARKED CROSSWALK, NON-MOTORIZED PATH CROSSING, OR SNOWMOBILE CROSSING.

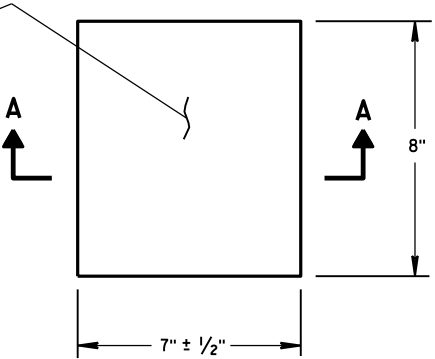
INSTALL PAVEMENT MARKING AFTER THE GROOVES ARE INSTALLED.

SEE SIGNING PLAN FOR SIGN REQUIREMENTS THAT MAY BE NEEDED.

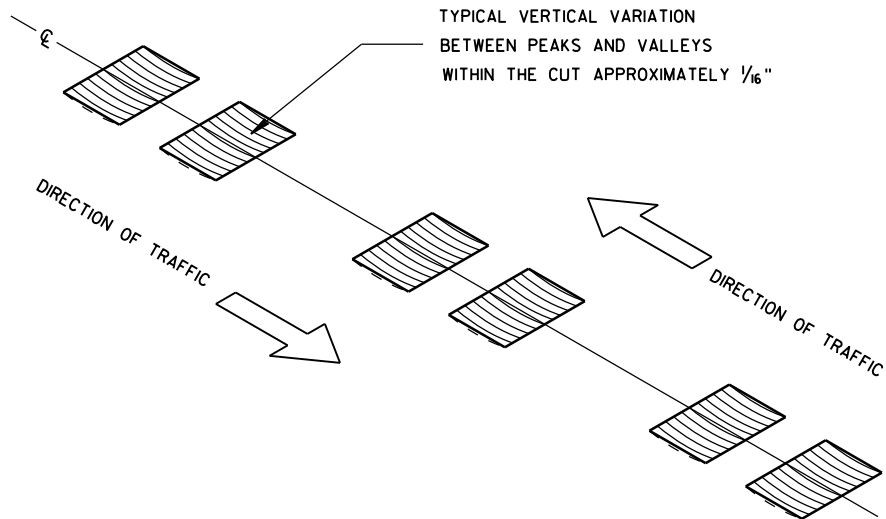
- ① CENTERLINE GROOVES MAY BE OMITTED IN AREAS WITH HIGH CONCENTRATIONS OF DRIVEWAYS, WHEN DIRECTED BY THE ENGINEER.



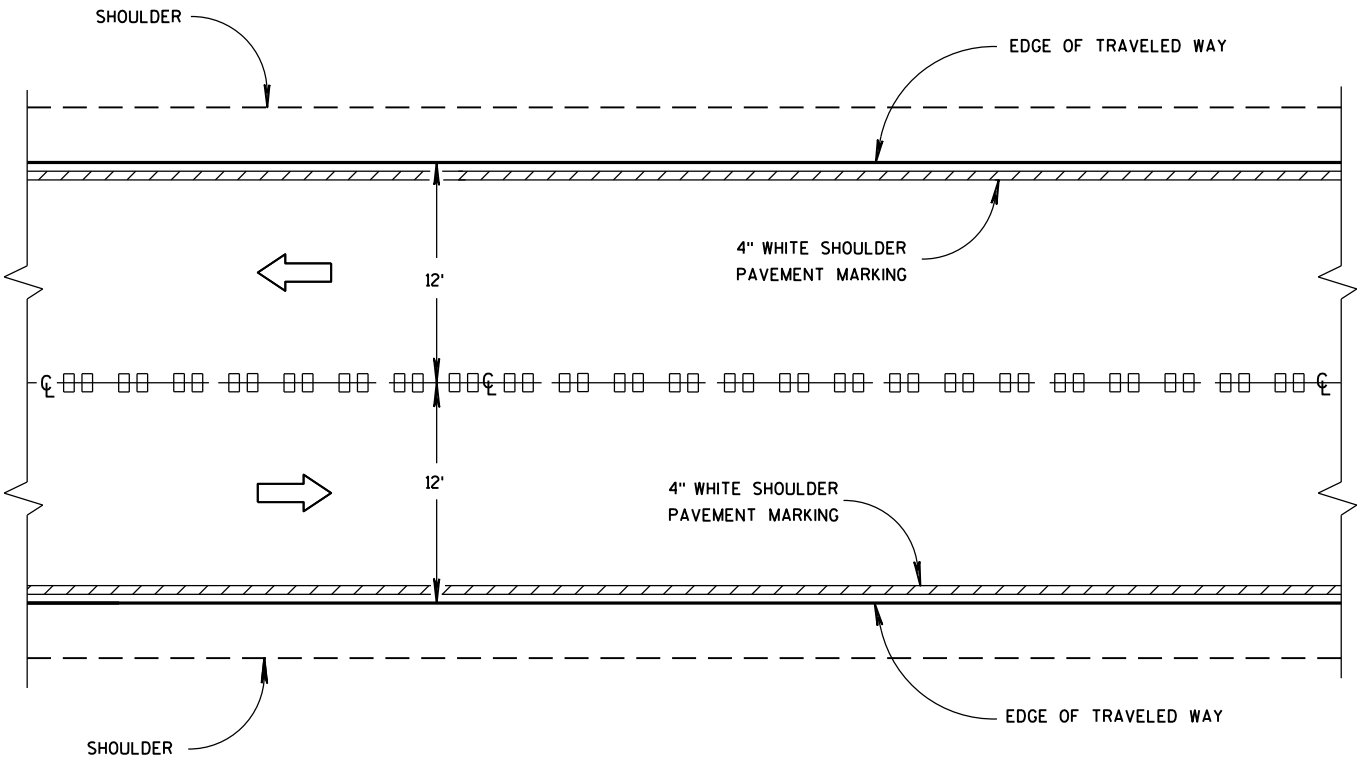
PLAN VIEW
CENTER LINE WITH GROOVES



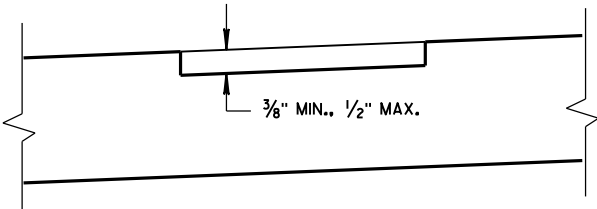
PLAN VIEW
(SINGLE GROOVE)



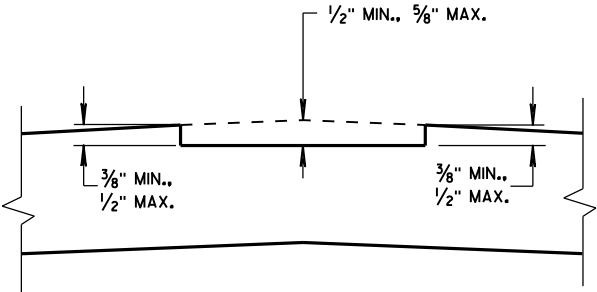
ISOMETRIC



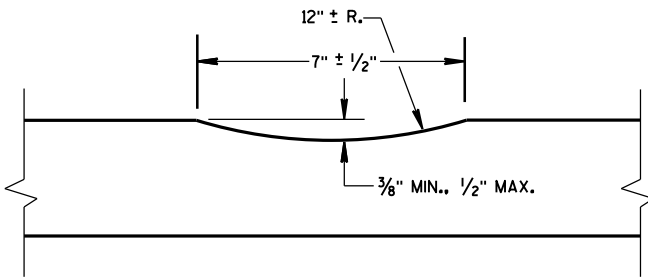
CENTER LINE GROOVES ON TWO-WAY ROADWAYS



SECTION B-B
SUPERELEVATED ROADWAY



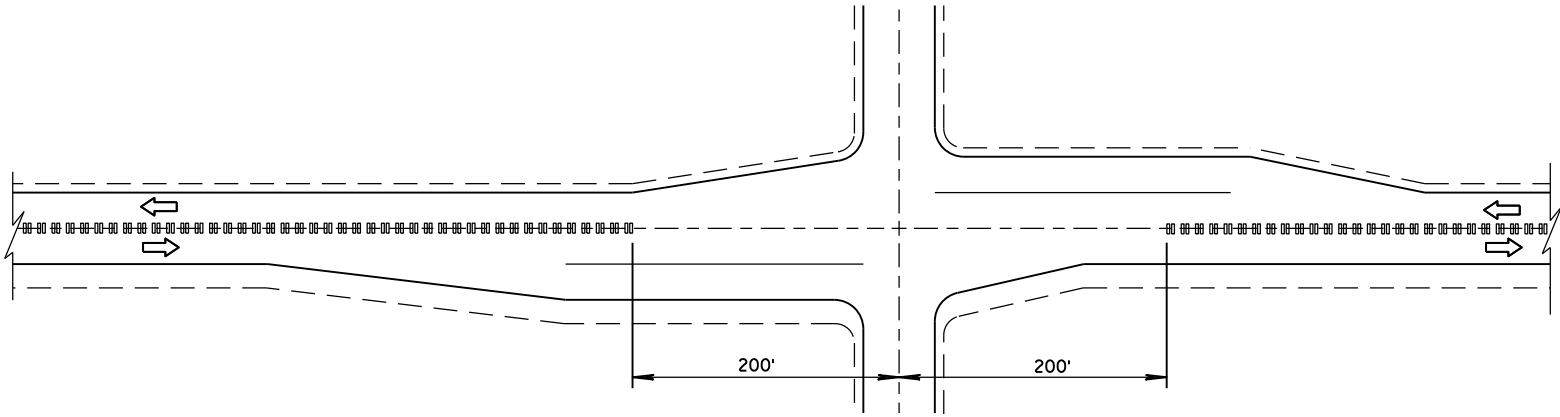
SECTION B-B
CROWNED ROADWAY



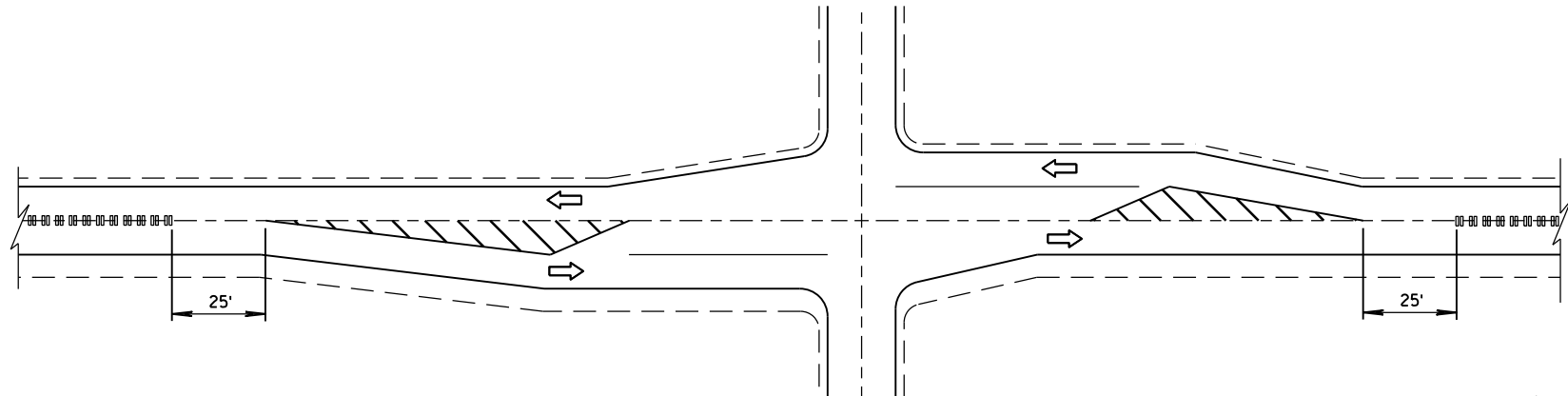
SECTION A-A

2-LANE RURAL
CENTER LINE RUMBLE STRIP,
MILLING

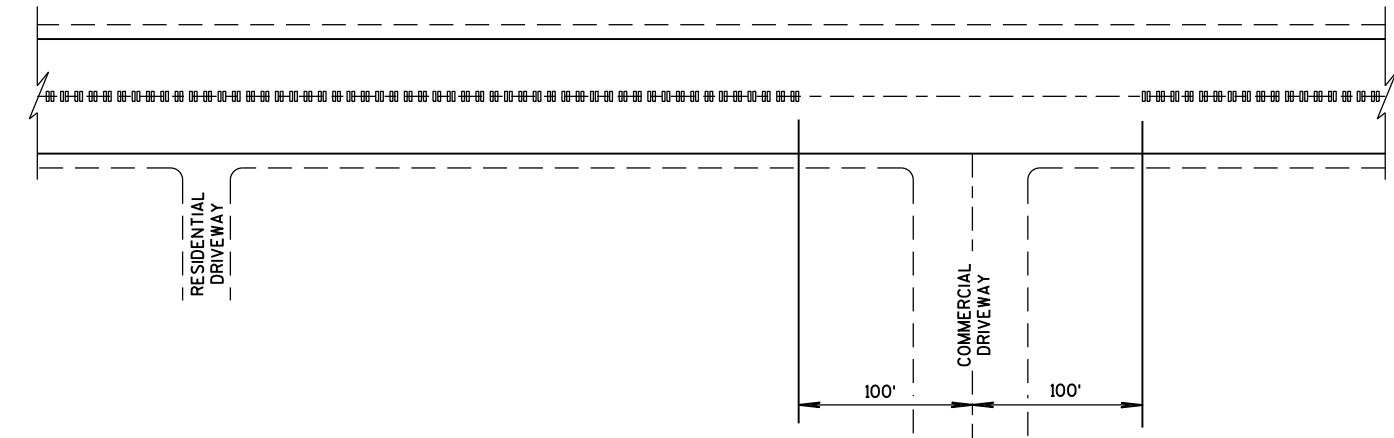
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION



CENTER LINE GROOVES AT INTERSECTIONS

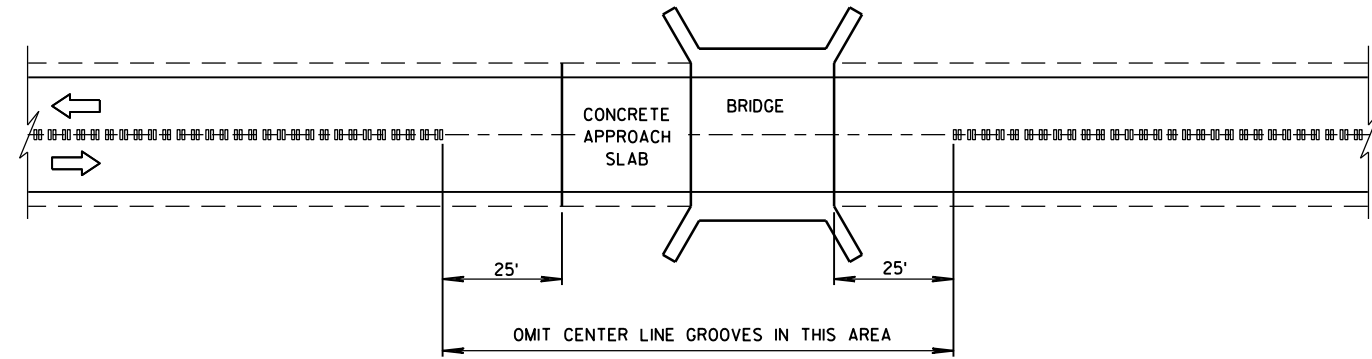


CENTER LINE GROOVES AT INTERSECTIONS
(WITH LEFT TURN LANES)

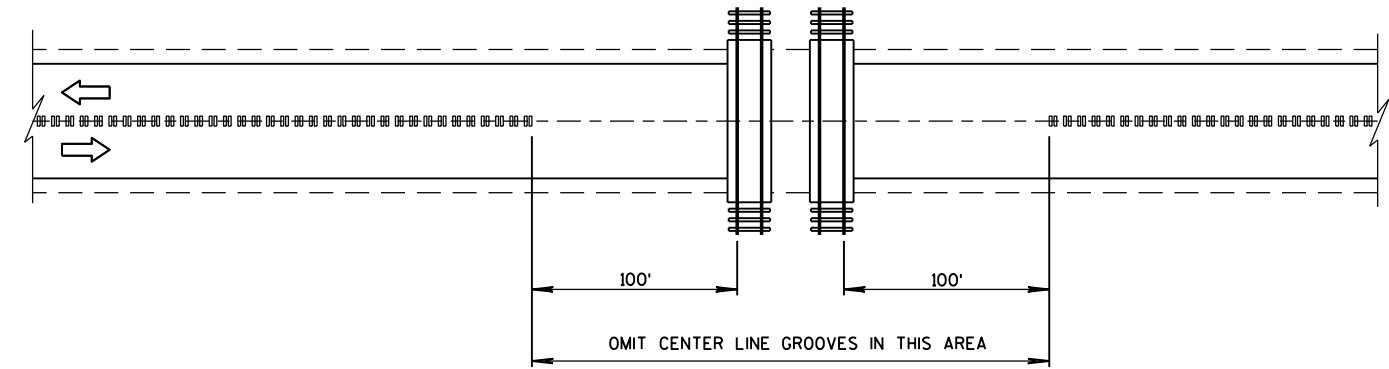


CENTER LINE GROOVES AT DRIVEWAYS¹

¹ CENTERLINE GROOVES MAY BE OMITTED IN AREAS WITH HIGH CONCENTRATIONS OF DRIVEWAYS, WHEN DIRECTED BY THE ENGINEER.



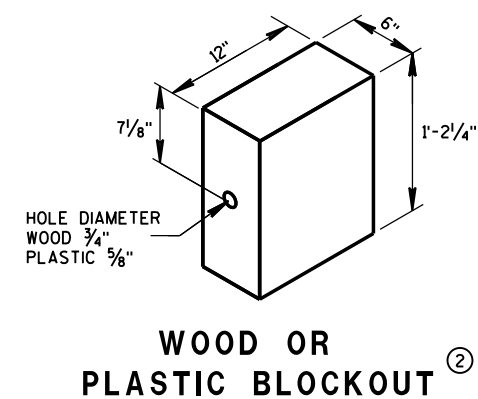
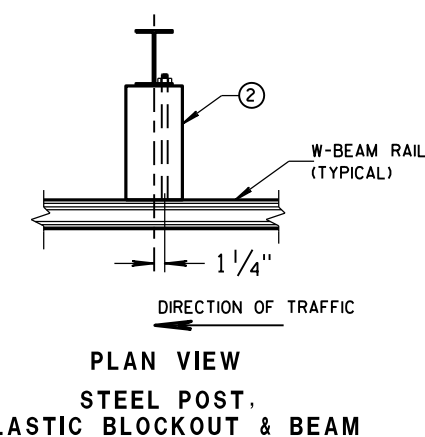
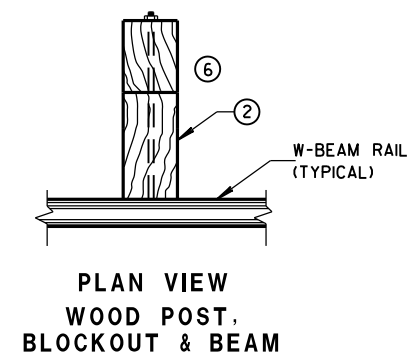
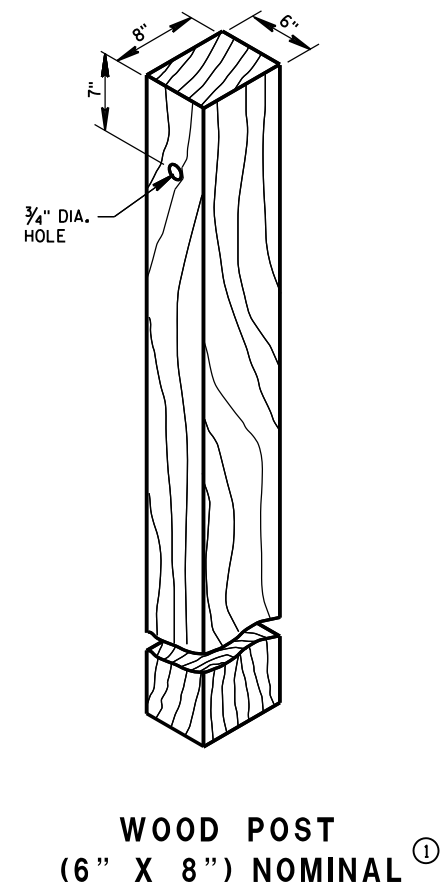
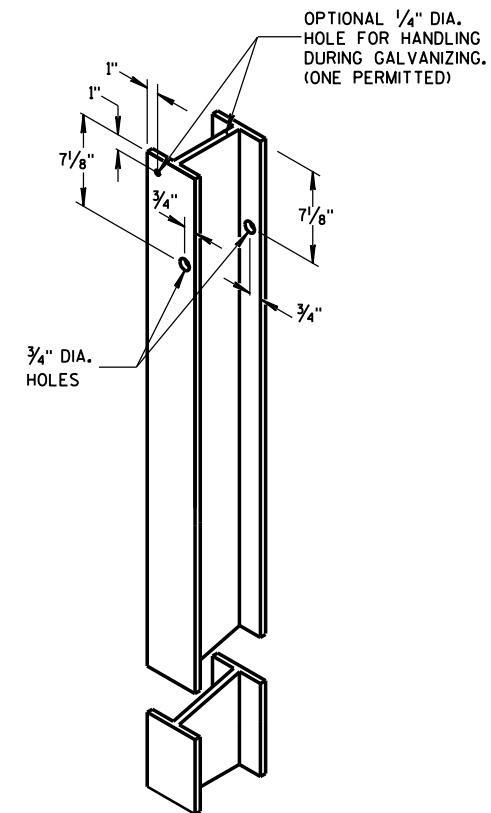
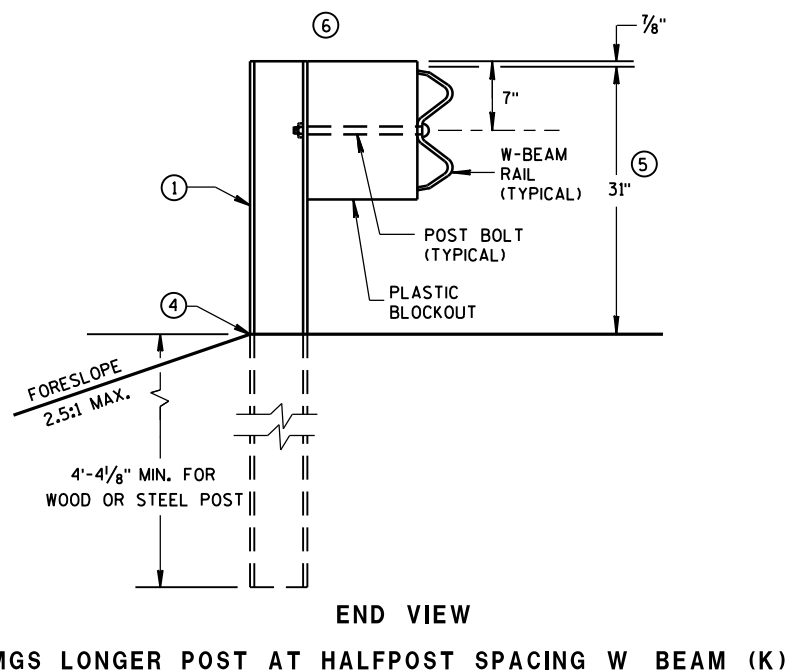
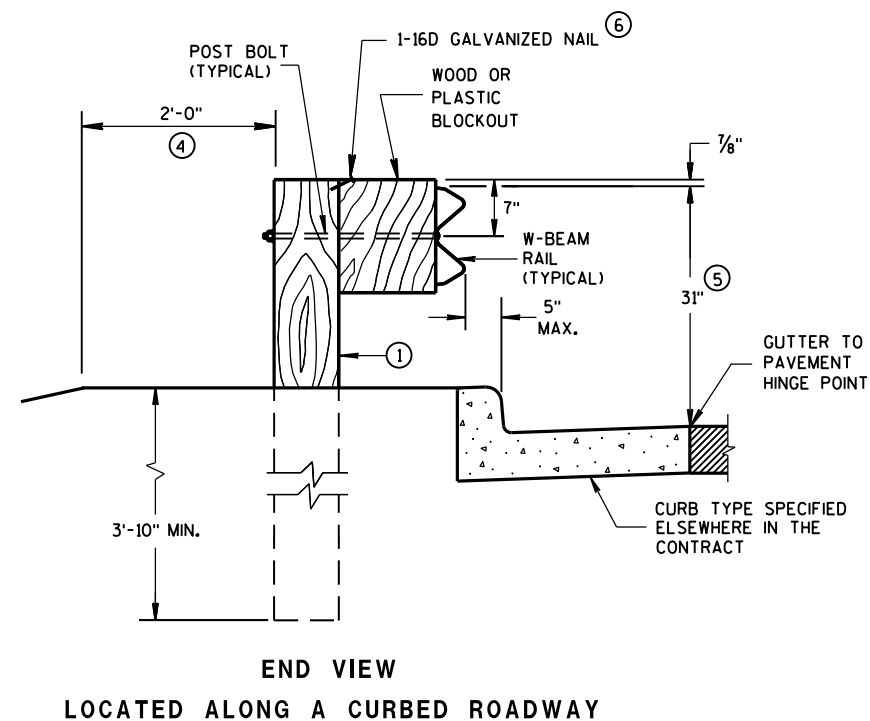
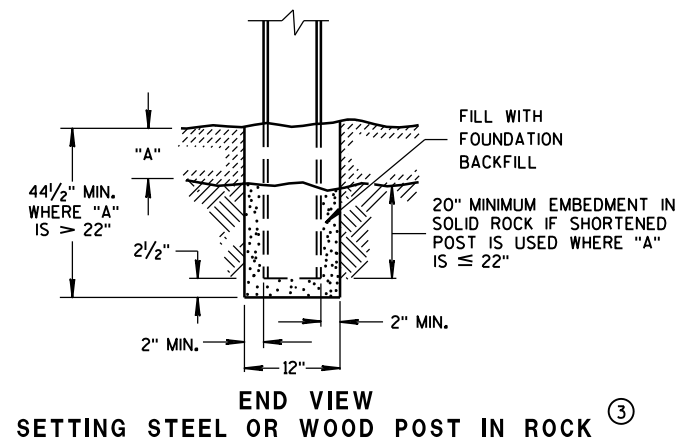
CENTER LINE GROOVES AT BRIDGES

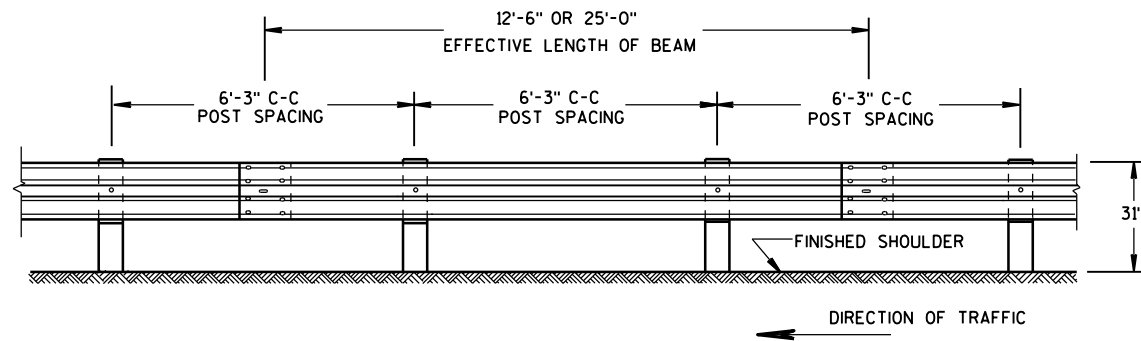


CENTER LINE GROOVES AT RAILROADS

2-LANE RURAL CENTER LINE RUMBLE STRIP, MILLING	
STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION	
APPROVED 5/15/2013 DATE	/S/ Jerry H. Zogg ROADWAY STANDARDS DEVELOPMENT ENGINEER
FHWA	

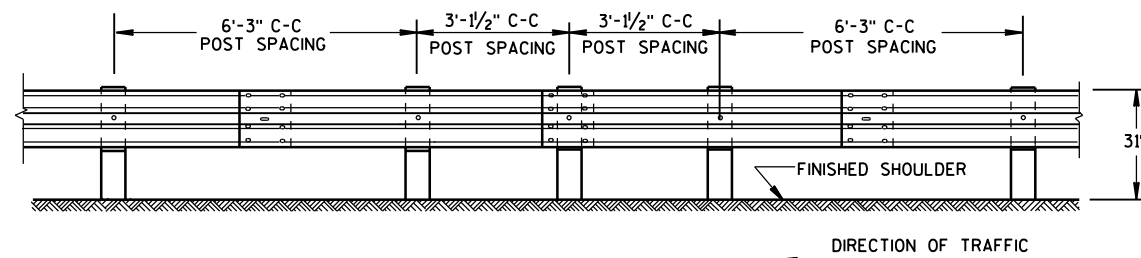
- ① WOOD OR STEEL POSTS (w6X9 OR w6X8.5) MAY BE USED. DO NOT INTERMIX WOOD AND STEEL POSTS. INSTALL STEEL POSTS WITH HOLES ON APPROACHING TRAFFIC SIDE.
- ② USE WOOD OR APPROVED PLASTIC BLOCKOUTS. WOOD BLOCKOUTS MAY BE CONSTRUCTED OUT OF TWO OR MORE WOOD BLOCKOUTS. SEE ALTERNATE WOOD BLOCKOUT DETAIL. 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 2½ INCHES OF GRANULAR MATERIAL IN THE BOTTOM OF THE HOLE. CUT THE POSTS TO THE LENGTH AND INSTALL. BACKFILL WITH EXCAVATED MATERIAL AND COMPACT. BACKFILL IS TO BE FREE OF LARGE ROCKS.
- ④ WHEN THE DISTANCE FROM BACK OF POST TO SHOULDER HINGE POINT IS LESS THAN 2 FEET INSTALL LONGER POST AT HALF POST SPACING (K).
- ⑤ FOR NEW MGS INSTALLATION TOP OF W-BEAM RAIL TOLERANCE IS ± 1". FOR EXISTING MGS INSTALLATION TOP OF W-BEAM IS BETWEEN 27¾" TO 32".
- ⑥ WHEN USING STEEL POST AND WOOD BLOCKOUTS INSTALL FOUR 16D GALVANIZED NAILS. INSTALL NAILS AT THE BACK CORNERS OF THE BLOCK AND BEND THE NAILS OVER THE FLANGE OF THE STEEL POST.





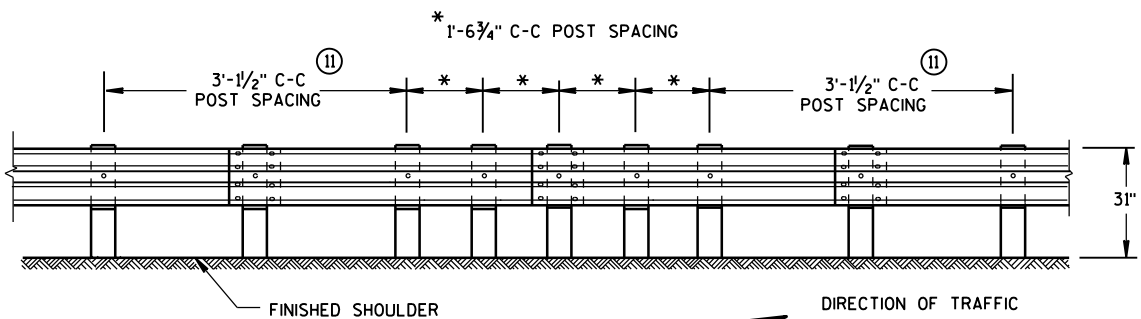
FRONT VIEW

POST SPACING STANDARD INSTALLATION



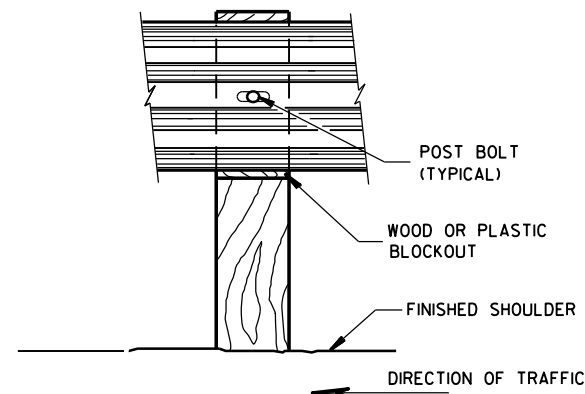
FRONT VIEW

HALF POST SPACING (HS) AND HALF POST SPACING WITH LONGER POSTS (K)

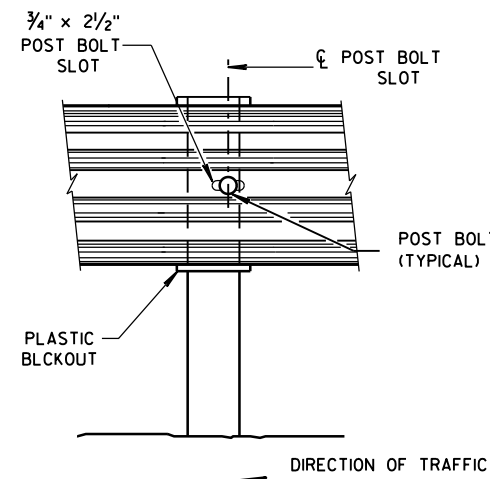


FRONT VIEW

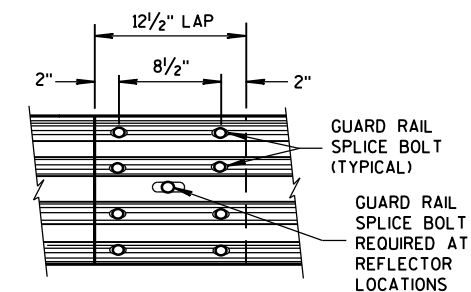
QUARTER POST SPACING (QS)



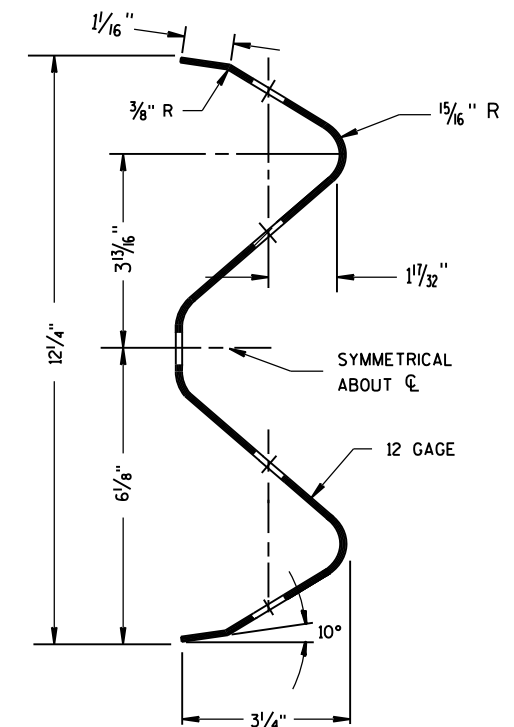
FRONT VIEW AT WOOD POST



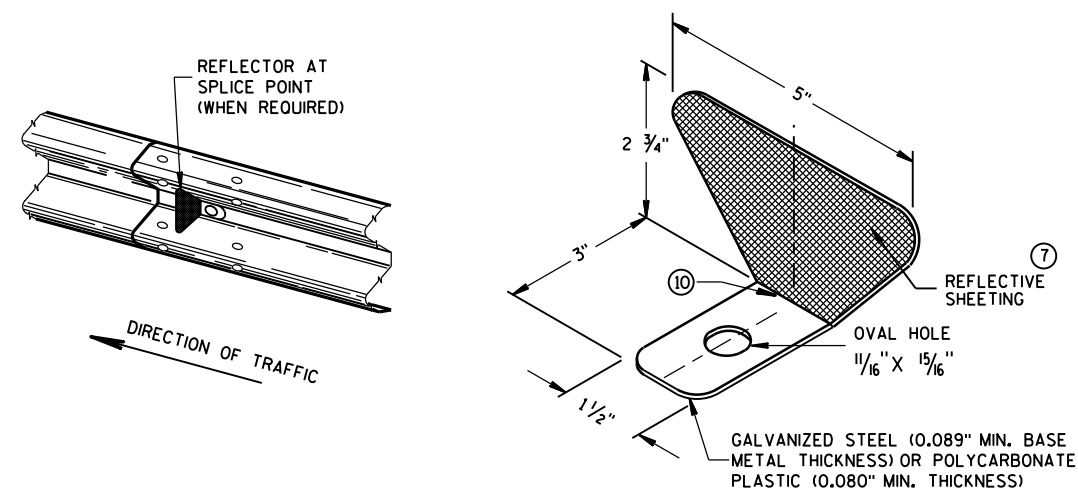
FRONT VIEW AT STEEL POST



FRONT VIEW
MID-SPAN BEAM SPLICE



SECTION THRU W-BEAM RAIL



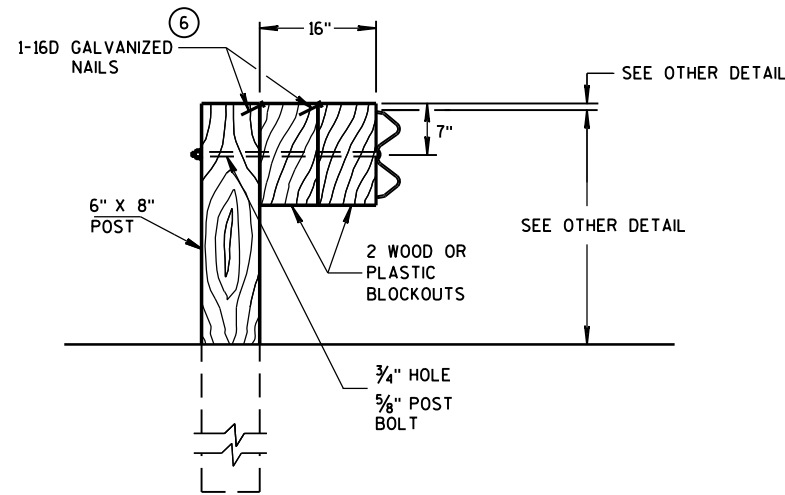
ONE SIDED REFLECTOR DETAIL AND TYPICAL INSTALLATION

- ⑦ PROVIDE SILVER REFLECTIVE SHEETING ON ALL REFLECTORS EXCEPT THOSE LOCATED ALONG THE LEFT EDGE OF ONE-WAY ROADWAYS, WHICH SHALL BE PROVIDED WITH YELLOW REFLECTIVE SHEETING. SHEETING IS TYPE H. SEE STANDARD SPECIFICATION 637.
 - ⑧ DO NOT INSTALL REFLECTORS ON THE FIRST 50 FEET OF THE APPROACH END OF THE ENERGY ABSORBING TERMINAL. RAIL SPLICE LOCATIONS ARE THE ONLY ACCEPTABLE LOCATIONS FOR REFLECTORS.
 - ⑨ REVERSE EVERY OTHER REFLECTOR FOR 2-WAY VISIBILITY. THE CONTRACTOR MAY FURNISH TWO-SIDED REFLECTORS IN LIEU OF ONE-SIDED REFLECTORS.
 - ⑩ PROVIDE AN ANGLE OF BEND OF $90^\circ \pm 1^\circ$ FOR TWO-SIDED REFLECTORS.
 - ⑪ 25 FEET OF HALF POST SPACING IS REQUIRED ON APPROACH AND DEPARTURE ENDS OF QUARTER POST SPACING.
- POST BOLTS ARE A $\frac{5}{8}$ " DIAMETER ASTM A307 GUARDRAIL BOLT. A POST BOLT REQUIRES $\frac{5}{8}$ " DIAMETER A563A DOUBLE RECESSED (DR) HEAVY HEX NUT AND $\frac{5}{8}$ " DIAMETER F844 FLAT WASHER. POST BOLTS MAY BE LONGER IF MULTIPLE BLOCKOUTS ARE BEING USED.
- GUARD RAIL SPLICE BOLTS ARE A $\frac{5}{8}$ " DIAMETER ASTM A307 GUARDRAIL HEAD BOLT. A GUARDRAIL SPLICE BOLT REQUIRES $\frac{5}{8}$ " DIAMETER A563A DOUBLE RECESSED (DR) HEAVY HEX NUT.

REFLECTOR SPACING ^⑧				
	BEAM GUARD LENGTH	REFLECTOR SPACING	NO. SURFACES REFLECTORIZED	MIN. NO. REFLECTORS
ONE WAY TRAFFIC	< 200'	50' C-C	1	3
	> 200'	100' C-C	1	
TWO WAY TRAFFIC	< 200'	25' C-C	1 ^⑨	6
	> 200'	50' C-C	1	
TWO WAY TRAFFIC	< 200'	50' C-C	2 ^⑩	3
	> 200'	100' C-C	2	

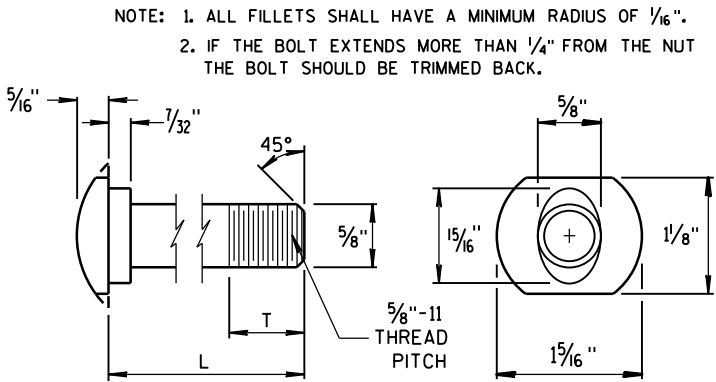
MIDWEST GUARDRAIL SYSTEM (MGS) GUARDRAIL

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

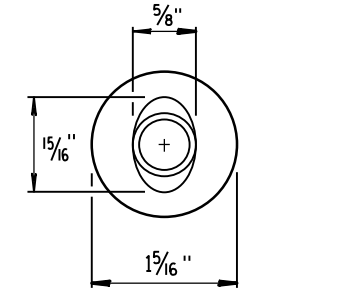


DETAIL FOR 16" BLOCKOUT DEPTH

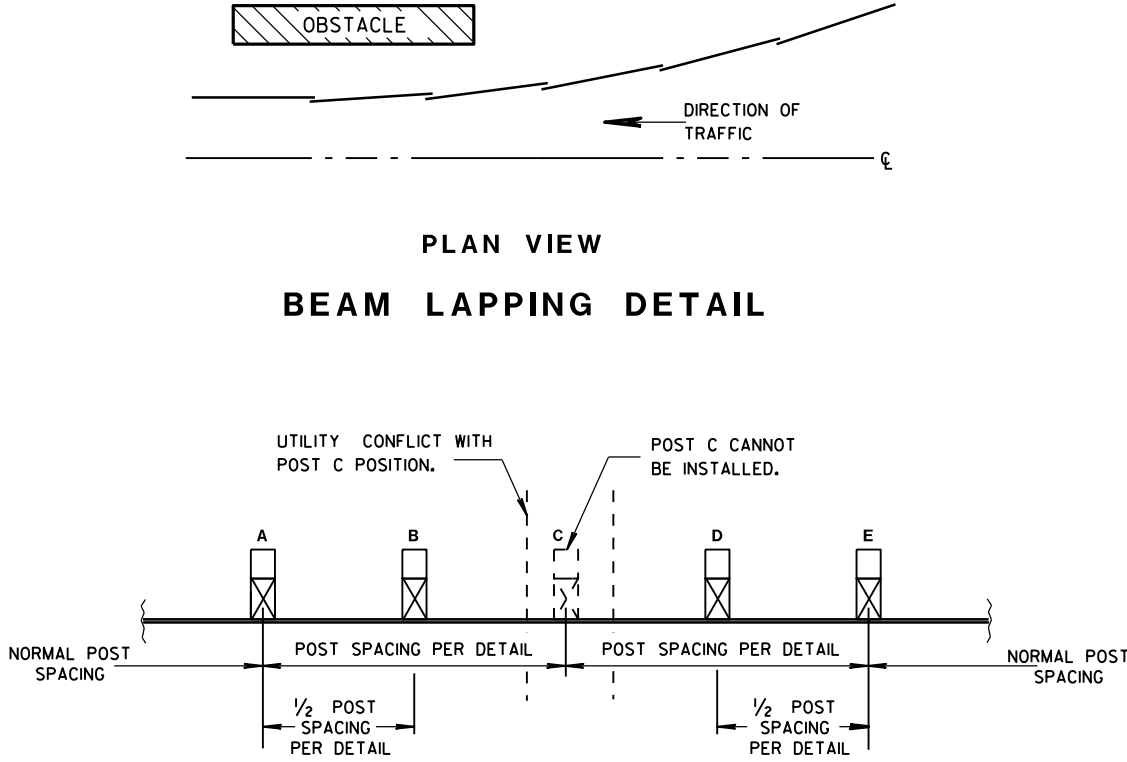
IT IS ACCEPTABLE TO USE BLOCKOUTS UP TO 16" DEEP TO INCREASE THE POST OFFSET TO AVOID UNDERGROUND OBSTACLES. THERE IS NO LIMIT TO THE NUMBER OF POSTS THAT CAN HAVE ADDITIONAL BLOCKOUTS UP TO 16" DEEP.



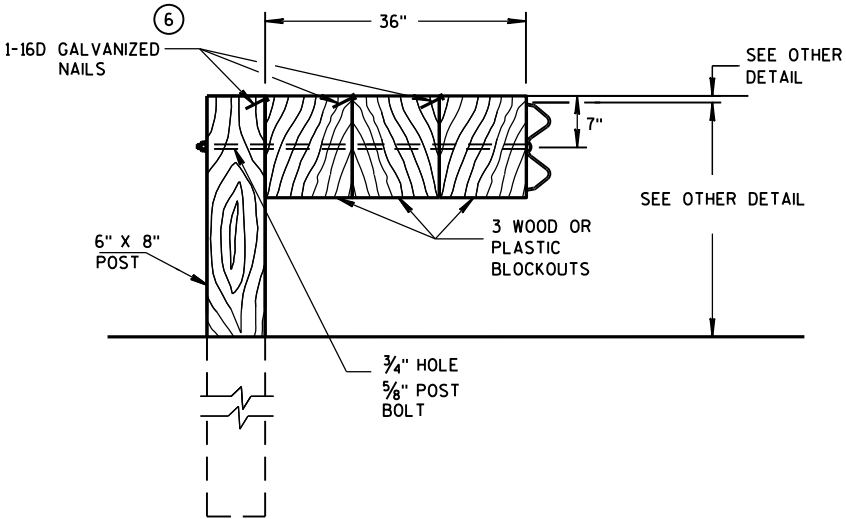
POST BOLT TABLE



ALTERNATE BOLT HEAD



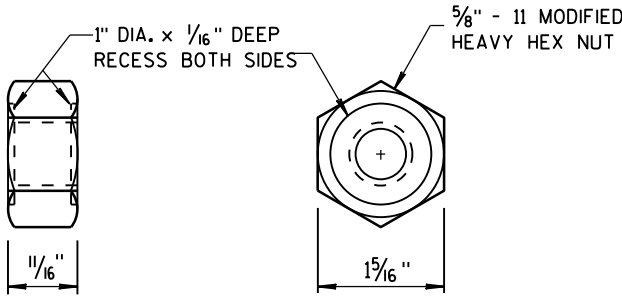
POST DRIVING FOR CONTINUOUS UNDERGROUND OBSTRUCTION



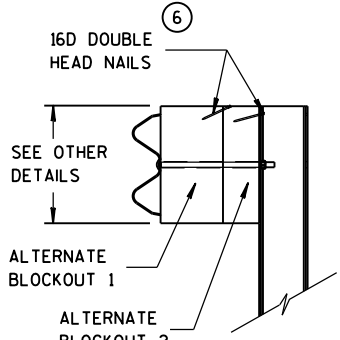
DETAIL FOR 36" BLOCKOUT DEPTH

NOTES: UNDER SPECIAL CIRCUMSTANCES, SUCH AS AVOIDING OBSTACLES THAT ARE NOT RELOCATED, IT IS ACCEPTABLE TO INSTALL ADDITIONAL BLOCKOUTS TO OBTAIN UP TO 36" DEPTH FOR ONE OR TWO POSTS IN A SECTION OF GUARDRAIL.

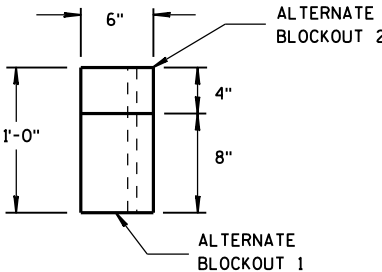
DO NOT USE 16" OR 36" BLOCKOUTS IF IT CAUSES THE POST TO BE DRIVEN BEYOND SHOULDER HINGE POINT OR CAUSES A FIXED OBJECT TO BE WITHIN THE DEFLECTION DISTANCE OF THE BARRIER.



POST BOLT, SPLICE BOLT AND RECESS NUT



SIDE VIEW



TOP VIEW

ALTERNATE WOOD BLOCKOUT DETAIL

MIDWEST GUARDRAIL SYSTEM (MGS) GUARDRAIL	
STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION	
APPROVED June 2016 DATE	/S/ Jerry H. Zogg ROADWAY STANDARDS DEVELOPMENT ENGINEER
FHWA	

GENERAL NOTES

- (A) THE SLOPE IN THE AREA BOUNDED BY THE GRADELINE, THE HINGE POINT LINE (HPL), AND THE CLEAR ZONE LIMITS (CZL) SHALL BE 4:1 OR FLATTER.
- (B) AFTER FINAL ASSEMBLY, RECHECK CABLE TO BE SURE IT IS TAUT AND HAS NOT RELAXED.
- (C) DIFFERENT MANUFACTURES REQUIRE DIFFERENT PERFORATED W-BEAM RAIL END PANELS. SEE MANUFACTURES INFORMATION.
- (D) THE TOP OF THE STEEL TUBE ON POST 1 AND POST 2 SHALL NOT BE MORE THAN 3" ABOVE THE FINISH GROUND ELEVATION.
- (E) ATTACH ALUMINUM SHEET TO E.A.T. HEAD USING 4 STAINLESS STEEL SELF-TAPPING SCREWS, ONE SCREW PER CORNER.
- (G) 1/2" DIAMETER X 3" LONG LAG BOLT AND WASHER.
- (H) HARDWARE VARIES BETWEEN DIFFERENT MANUFACTURES. SEE MANUFACTURE'S DRAWING FOR INFORMATION.
- (I) DIMENSIONS MAY VARY. SEE MANUFACTURE'S INFORMATION.

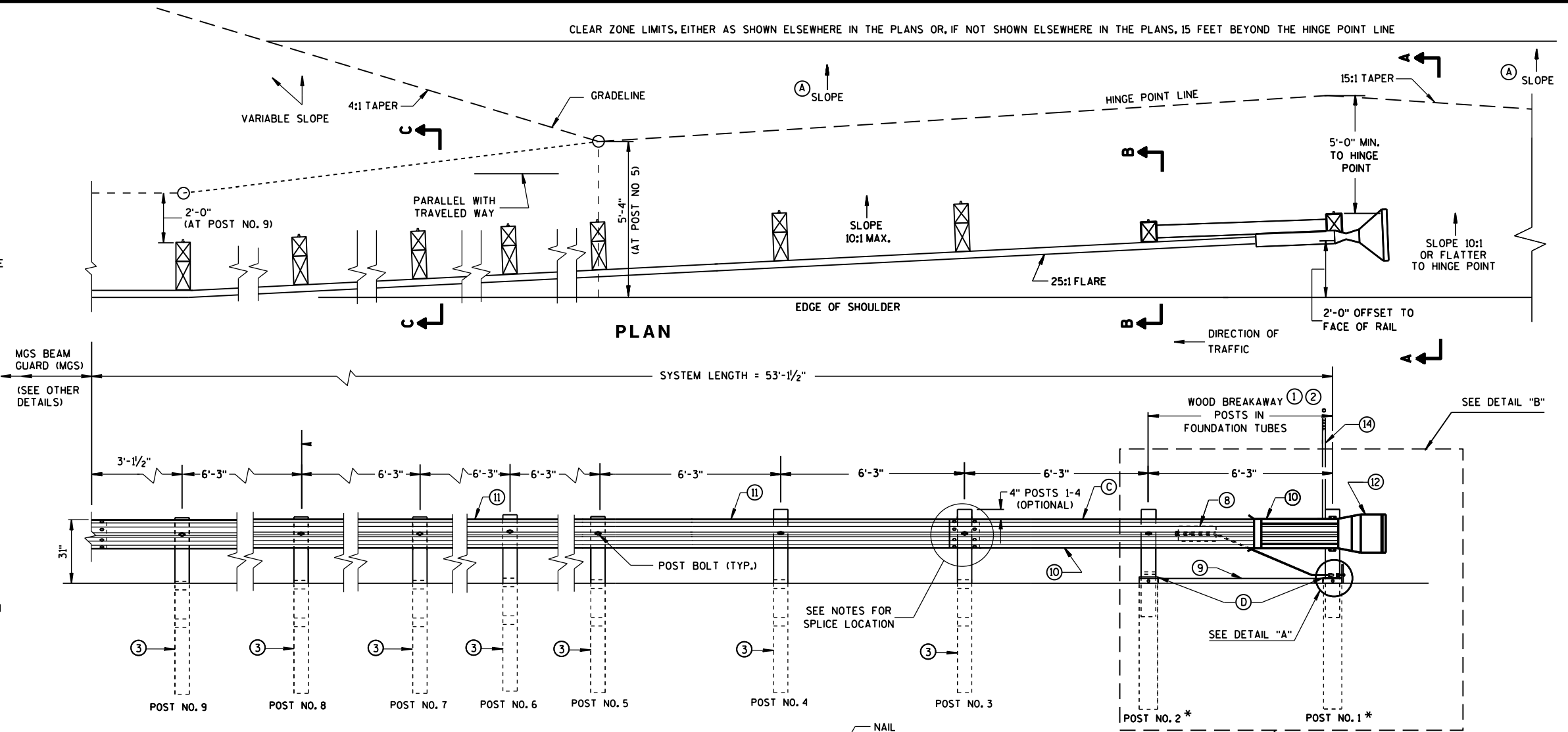
SEE SDD 14B42 FOR MORE INFORMATION.

* DO NOT ATTACH BLOCKOUTS TO POSTS 1 AND 2.

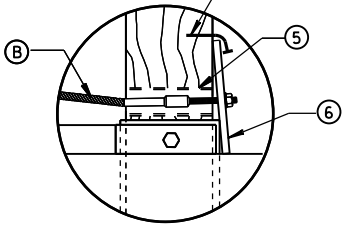
DO NOT INSTALL REFLECTORS ON THE FIRST 50 FEET OF THE APPROACH END OF THE ENERGY ABSORBING TERMINAL.

W-BEAM RAIL SPLICES ARE LOCATED AT POST NUMBER 3, AND BETWEEN POST 5 AND 6, BETWEEN POSTS 7 AND 8, AND MIDDLE OF THE SPAN AFTER POST 9.

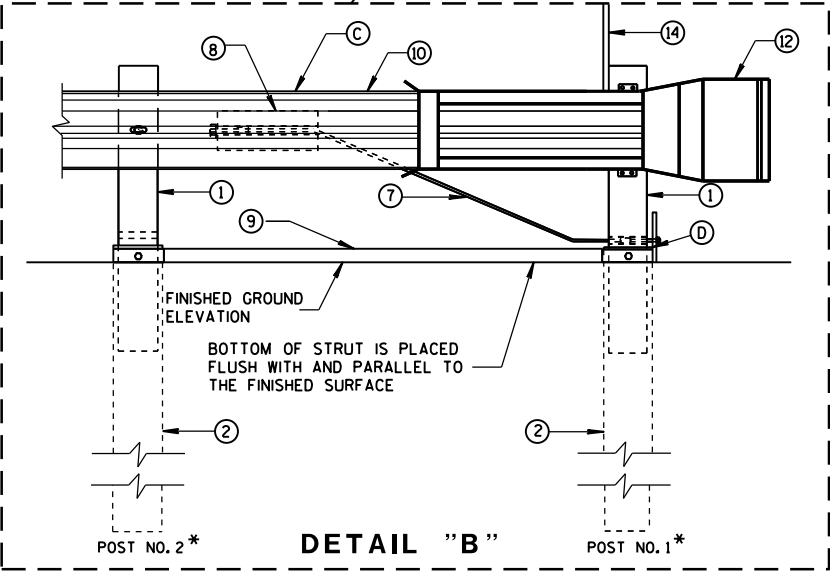
THE CENTER OF THE UPPER 3/2" DIAMETER HOLE ON POST NUMBER 3 THROUGH POST 9 IS TO BE FLUSH WITH THE GROUND LINE UP TO A MAXIMUM OF 2" ABOVE GROUND LINE.



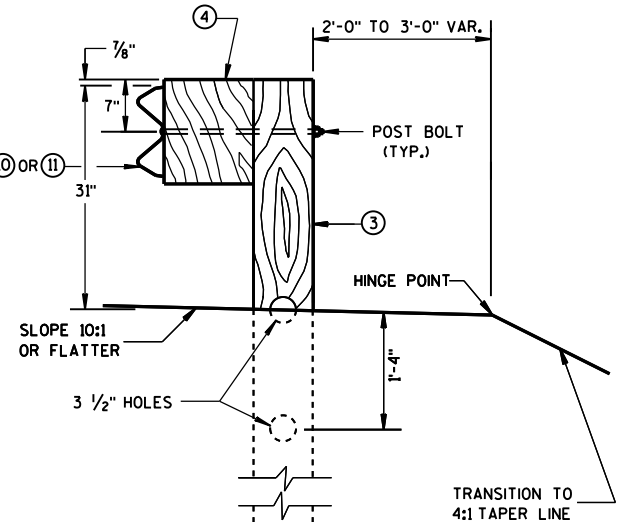
ELEVATION



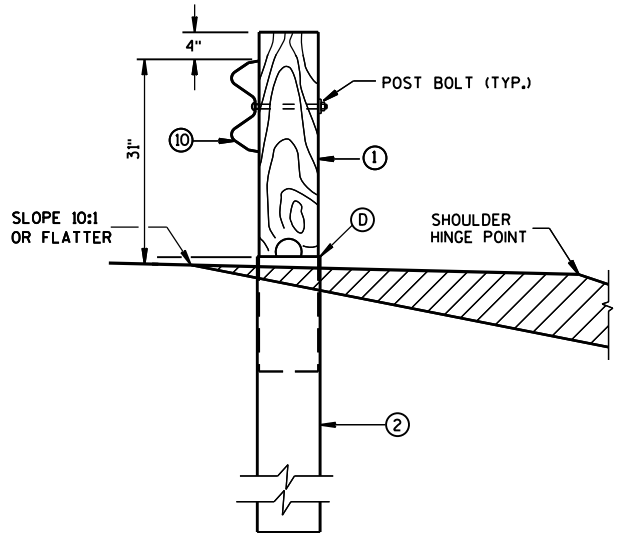
DETAIL "A"



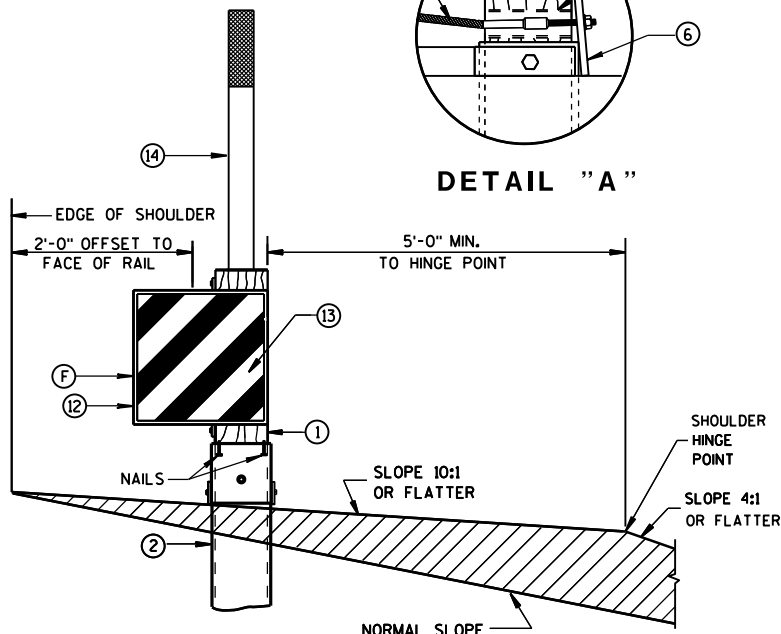
DETAIL "B"



SECTION C-C
TYPICAL AT POST NOS. 3-9



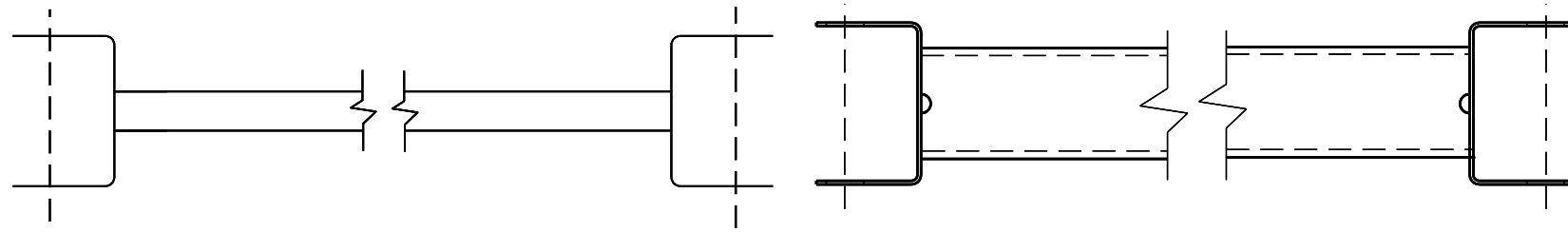
SECTION B-B
TYPICAL AT POST NO. 2*



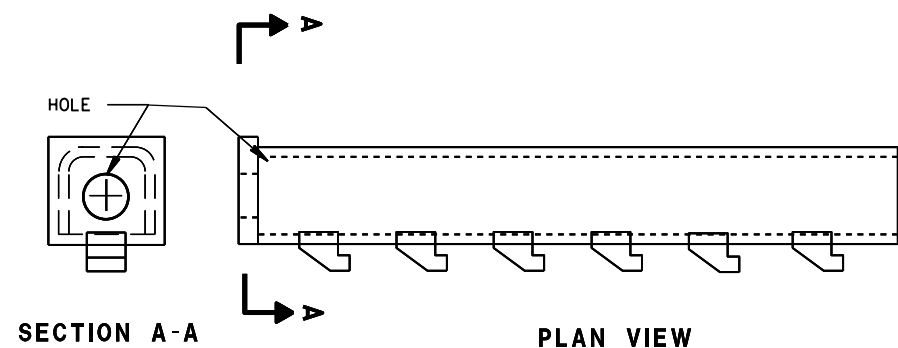
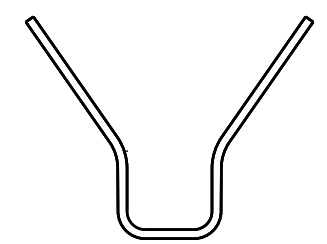
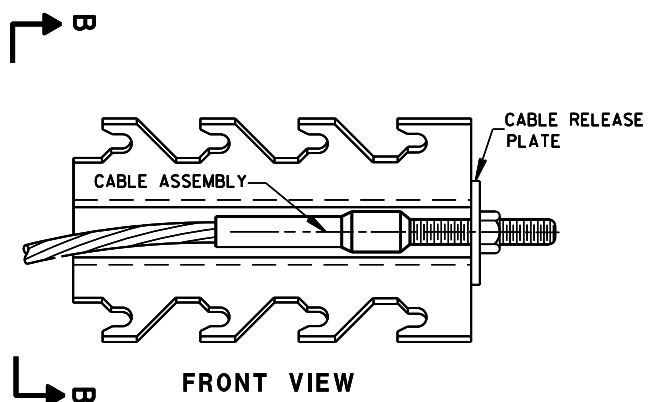
SECTION A-A
TYPICAL AT POST NO. 1*

MIDWEST GUARDRAIL SYSTEM
ENERGY ABSORBING TERMINAL
(MGS)

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION



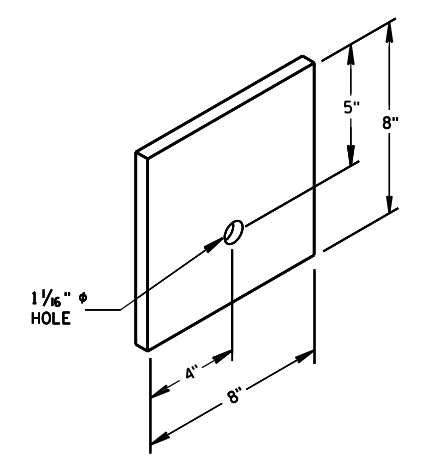
9 H
GENERIC GROUND STRUT



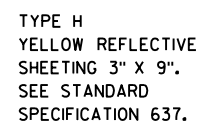
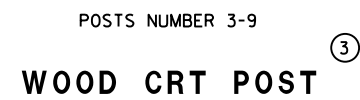
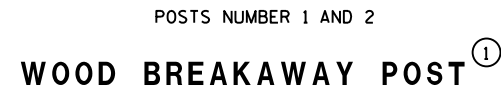
8 H
GENERIC ANCHOR CABLE BOX

BILL OF MATERIALS

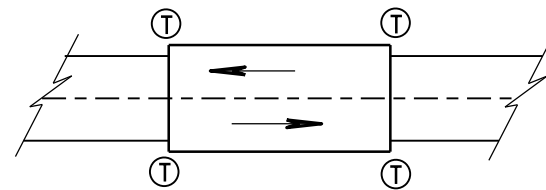
PART NO.	DESCRIPTION
MATERIALS PROVIDED BY MGS EAT MANUFACTURER. SEE MANUFACTURER'S DETAILS FOR MORE INFORMATION.	
①	WOOD BREAKAWAY POST
②	6" X 8" X 0.188", 6'-0" LONG FOUNDATION TUBE AT POSTS 1 AND 2
③	WOOD CRT
④	WOOD BLOCKOUT
⑤	PIPE SLEEVE
⑥	BEARING PLATE
⑦	BCT CABLE ASSEMBLY
⑧	ANCHOR CABLE BOX
⑨	GROUND STRUT
⑩	PERFORATED W-BEAM RAIL END PANEL, 12'-6" LONG.
⑪	STANDARD W-BEAM RAIL. MULTIPLE SECTIONS REQUIRED. SECTIONS VARY IN LENGTH.
⑫	END SECTION EAT
⑬	0.040" ALUMINUM SHEET WITH REFLECTIVE SHEETING TYPE F PER SECTION 637 OF THE STANDARD SPECIFICATIONS
⑭	EAT MARKER POST - YELLOW (SEE APPROVED PRODUCTS LIST)



6
BEARING PLATE

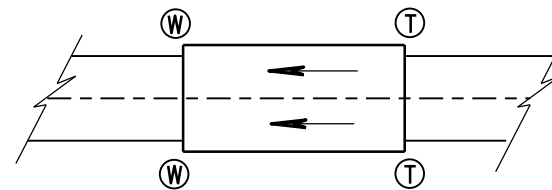


MIDWEST GUARDRAIL SYSTEM ENERGY ABSORBING TERMINAL (MGS)	
STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION	
APPROVED June 2014	<i>/s/ Jerry H. Zogg</i>
DATE	ROADWAY STANDARDS DEVELOPMENT ENGINEER
FHWA	



TWO WAY TRAFFIC

Ⓣ THRIE BEAM CONNECTION



ONE WAY TRAFFIC

Ⓦ W-BEAM CONNECTION WHEN REQUIRED

GENERAL NOTES

IF ROCK IS ENCOUNTERED, REMOVE ROCK TO FULL DEPTH OF POST PLUS 2½", AND 12" DIAMETER AROUND POST. SEE 14B42 FOR MORE DETAILS.

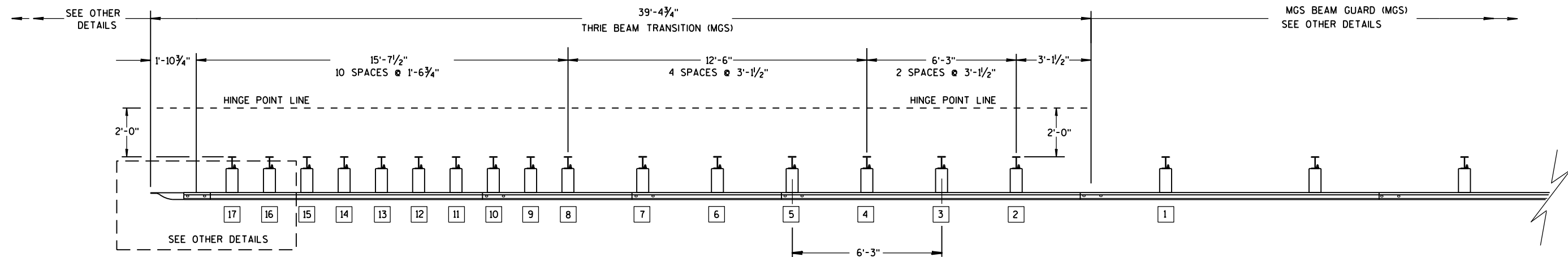
TRANSITION USES STEEL POSTS ONLY.

SEE STANDARD DETAIL DRAWING 14 B 42 FOR MORE INFORMATION.

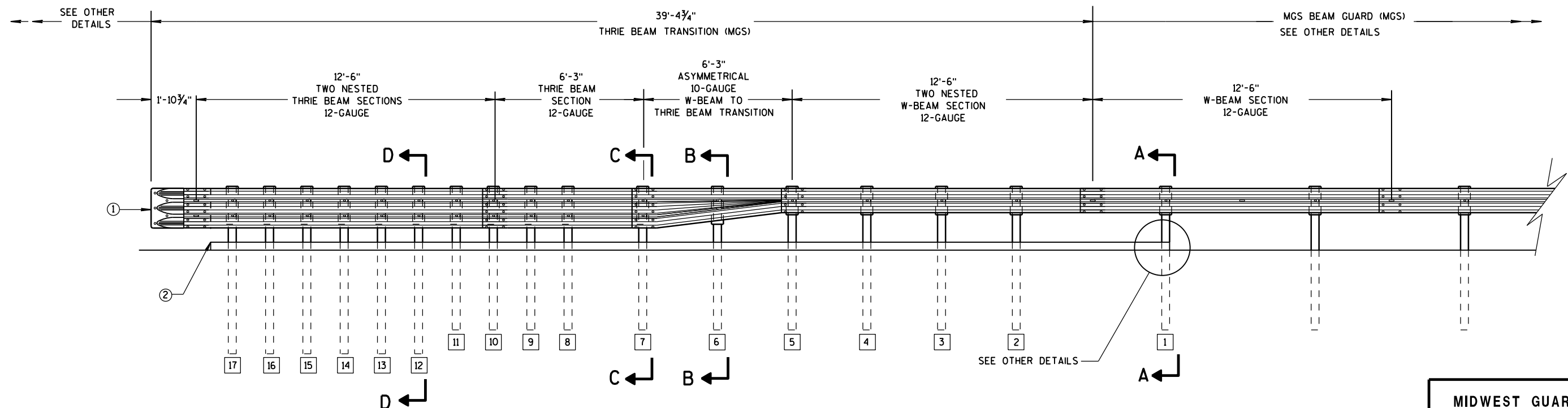
① BRIDGE RAILING TYPE "W" DOES NOT REQUIRE A TERMINAL CONNECTOR.

② OPTIONAL CURB AND GUTTER OR DRAINAGE FEATURE SEE PLAN FOR INFORMATION.

TYPICAL LOCATIONS OF THRIE BEAM AND W-BEAM CONNECTIONS TO BRIDGE



PLAN VIEW



ELEVATION VIEW

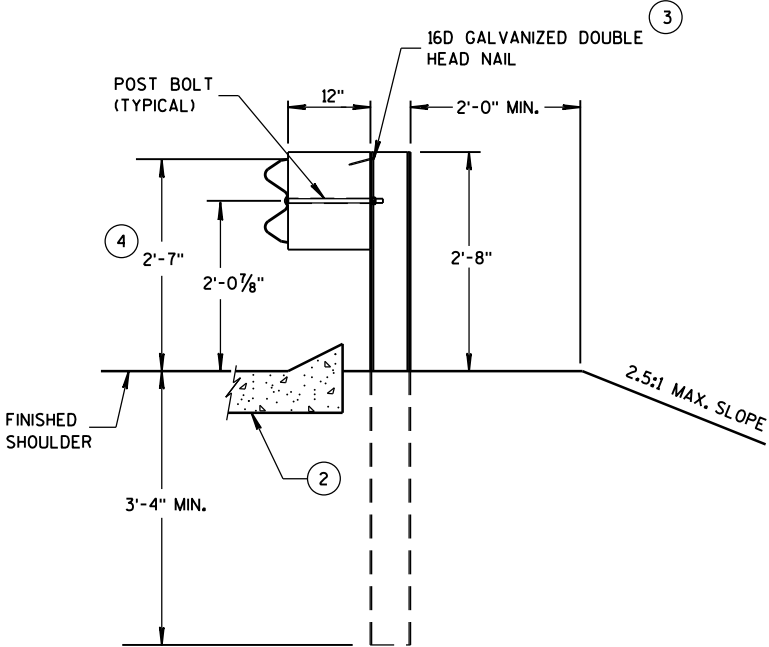
MIDWEST GUARDRAIL SYSTEM THRIE BEAM TRANSITION

MIDWEST GUARDRAIL SYSTEM
THRIE BEAM TRANSITION (MGS)

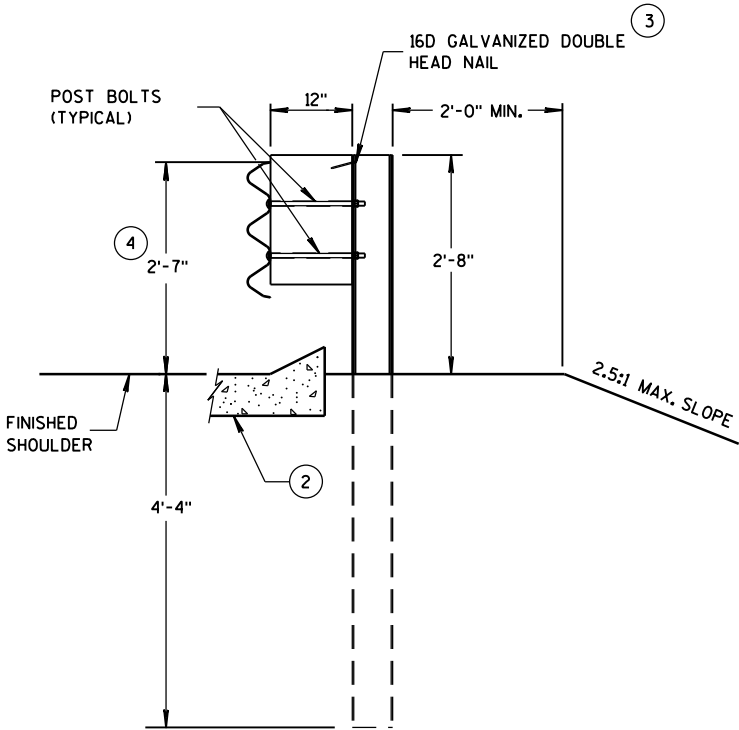
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

GENERAL NOTES

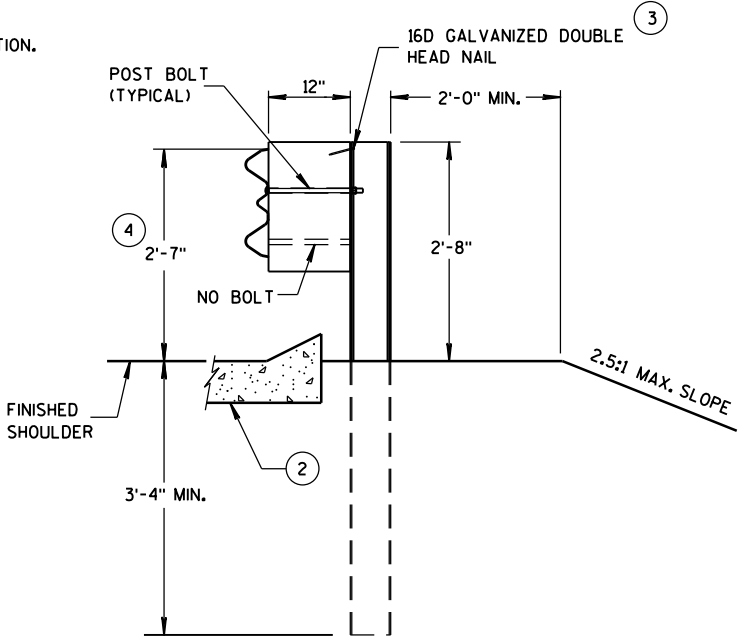
- 2 OPTIONAL CURB AND GUTTER OR DRAINAGE FEATURE SEE PLAN FOR INFORMATION.
- 3 WHEN USING STEEL POSTS AND WOOD BLOCKOUTS INSTALL FOUR 10D GALVANIZED NAILS. INSTALL NAILS AT THE BACK CORNERS OF THE BLOCK AND BEND THE NAILS OVER THE FLANGE OF THE STEEL POST.
- 4 TOLERANCE FOR TOP OF W-BEAM RAIL IS ± 1".



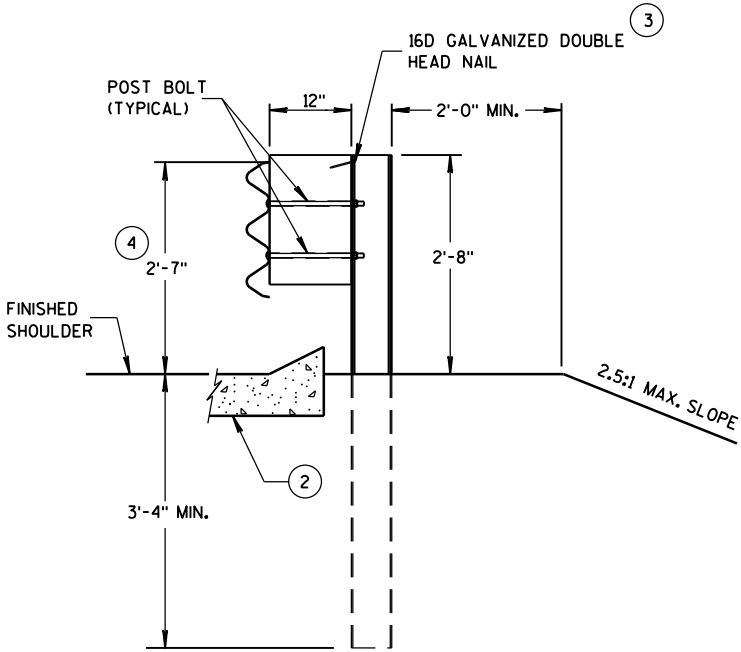
SECTION A-A
POSTS 1-5



SECTION D-D
POSTS 12-17



SECTION B-B
POST 6



SECTION C-C
POSTS 7-11

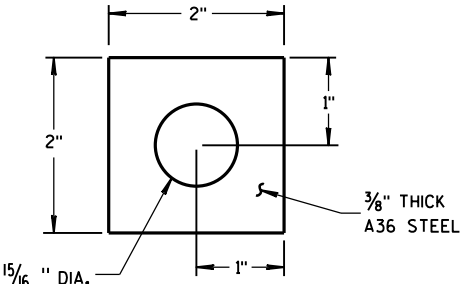
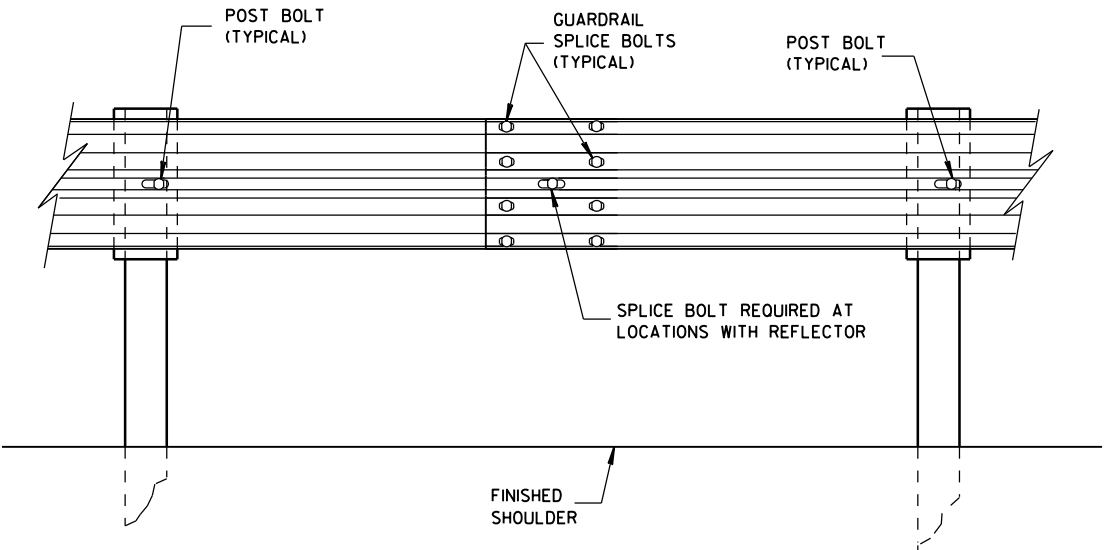
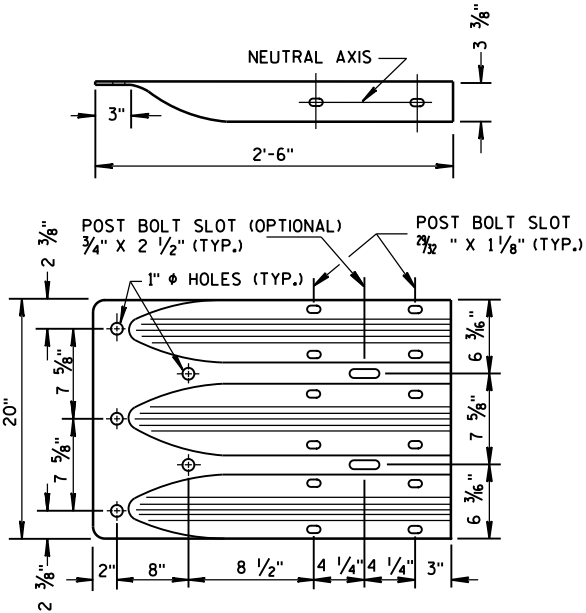


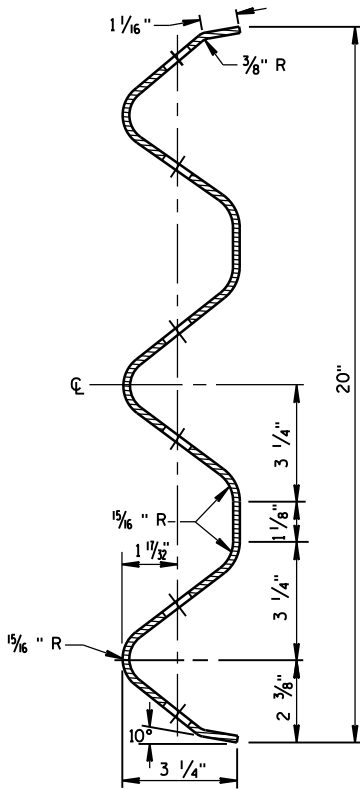
PLATE WASHER DETAIL



SPlice DETAIL



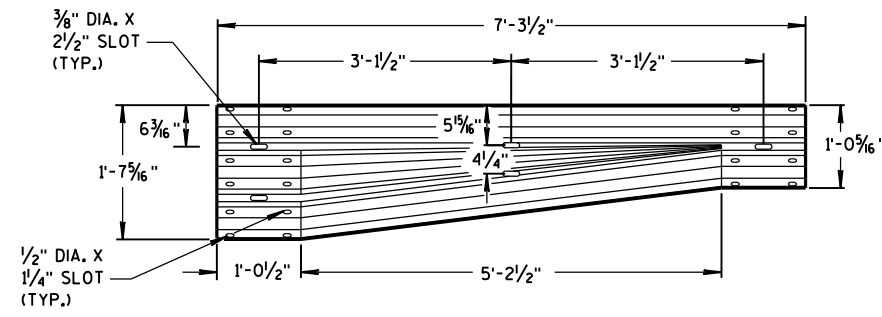
THRIE BEAM
TERMINAL CONNECTOR



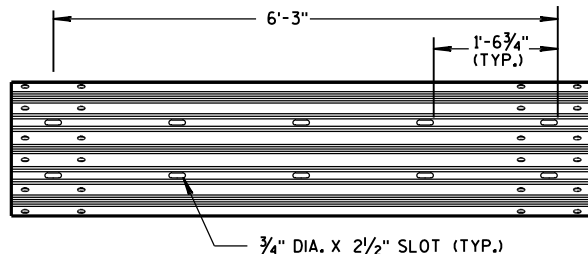
SECTION THRU THRIE
BEAM RAIL ELEMENT

MIDWEST GUARDRAIL SYSTEM
THRIE BEAM TRANSITION (MGS)

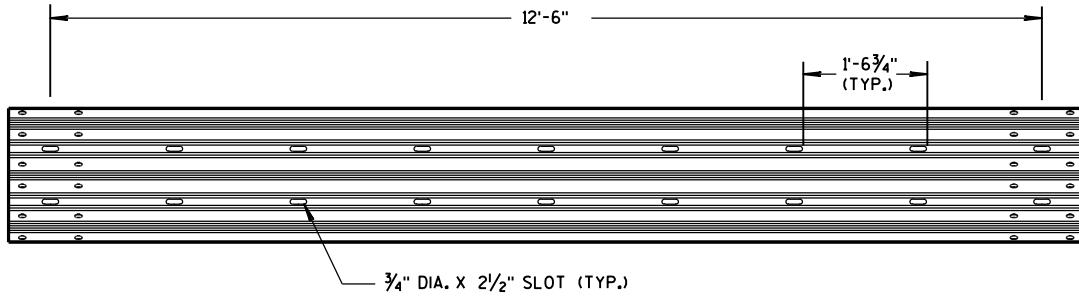
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION



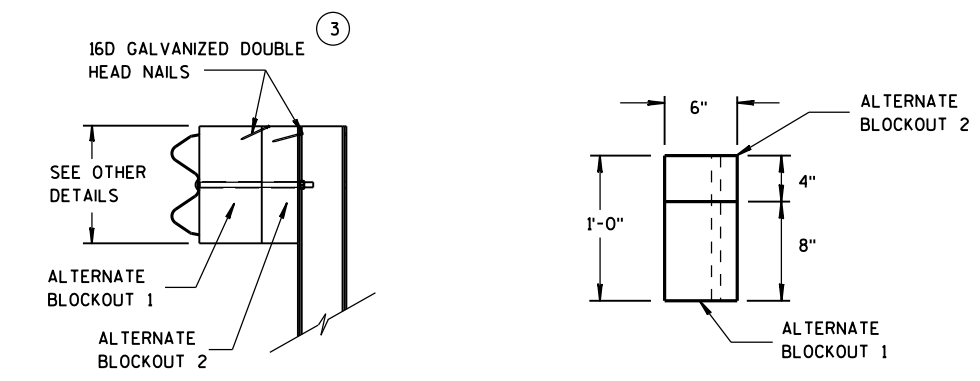
W-BEAM TO THRIE BEAM TRANSITION SECTION



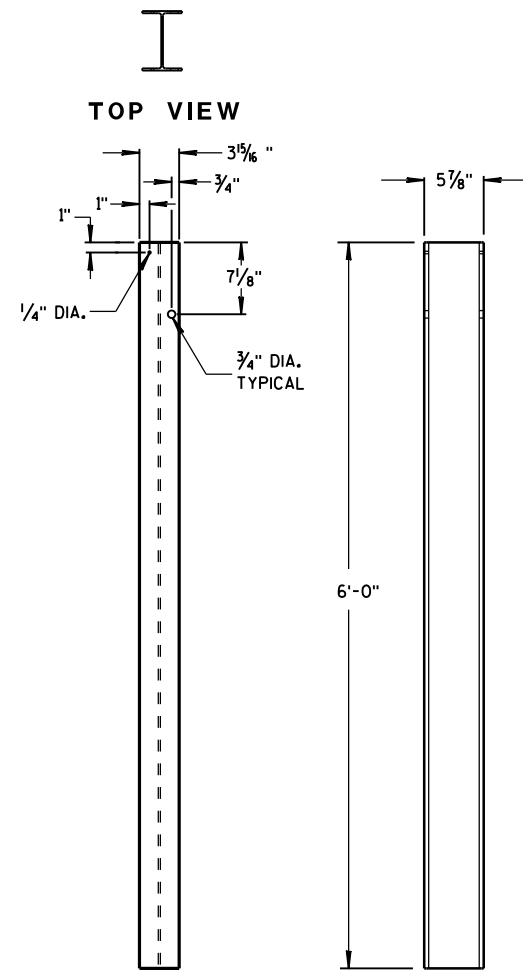
6'-3" THRIE BEAM SECTION



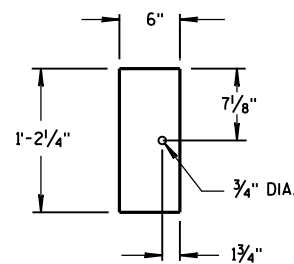
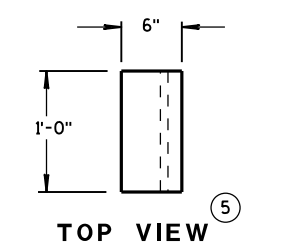
12'-6" THRIE BEAM SECTION



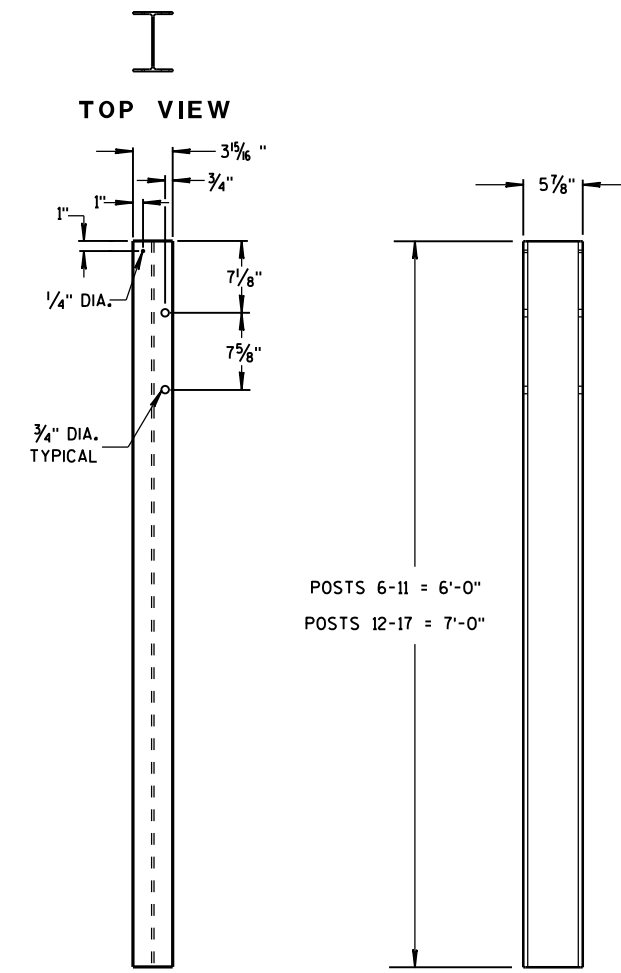
ALTERNATE WOOD BLOCKOUT DETAIL



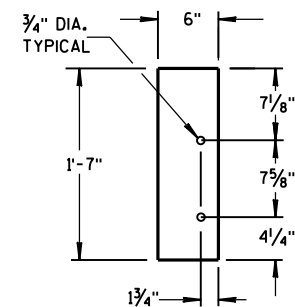
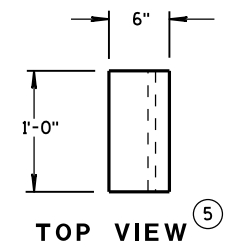
STEEL POSTS 1-5



BLOCKOUT POSTS 1-5



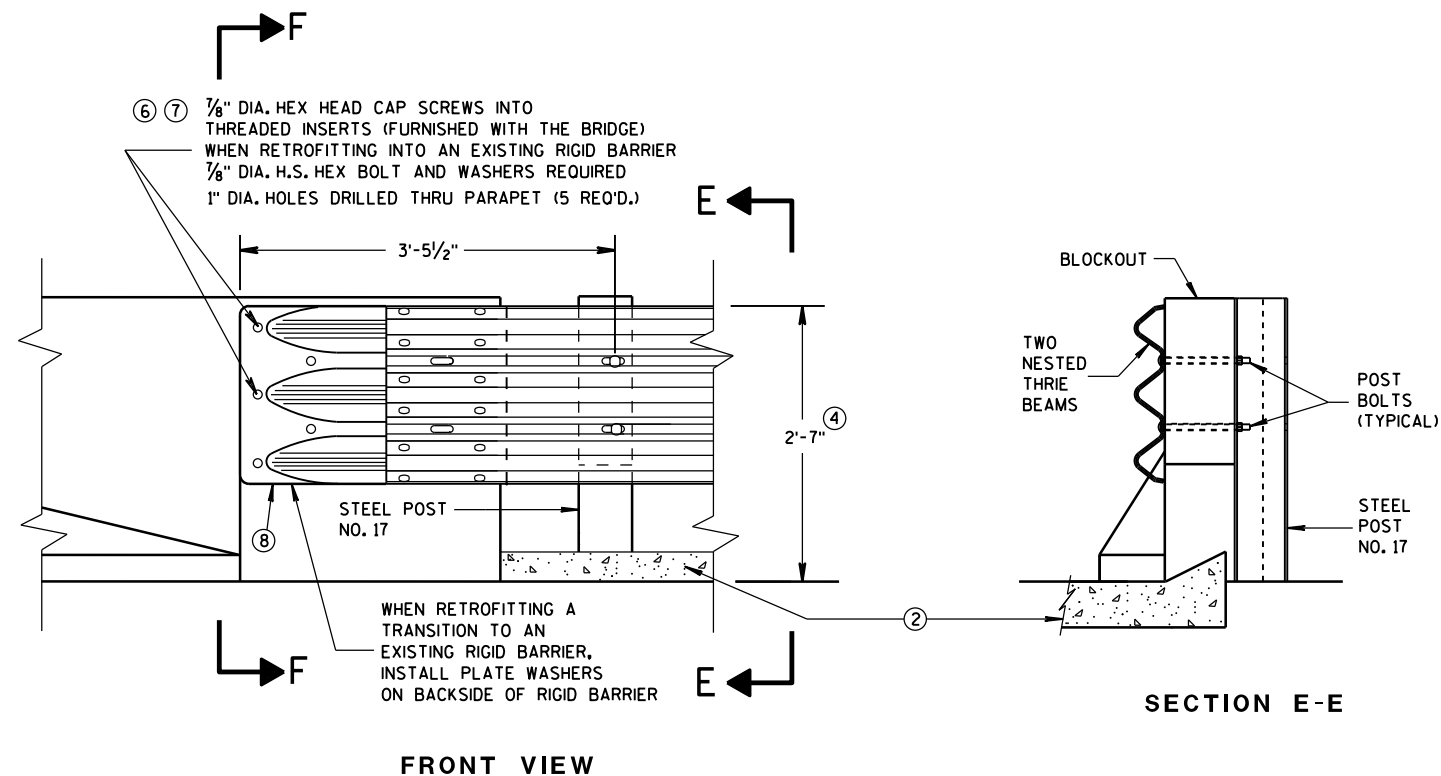
STEEL POSTS 6-17



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.
- 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.
- WOOD BLOCKS MAY BE CONSTRUCTED OUT OF 2 WOOD BLOCKS. SEE ALTERNATE WOOD BLOCK DETAIL.

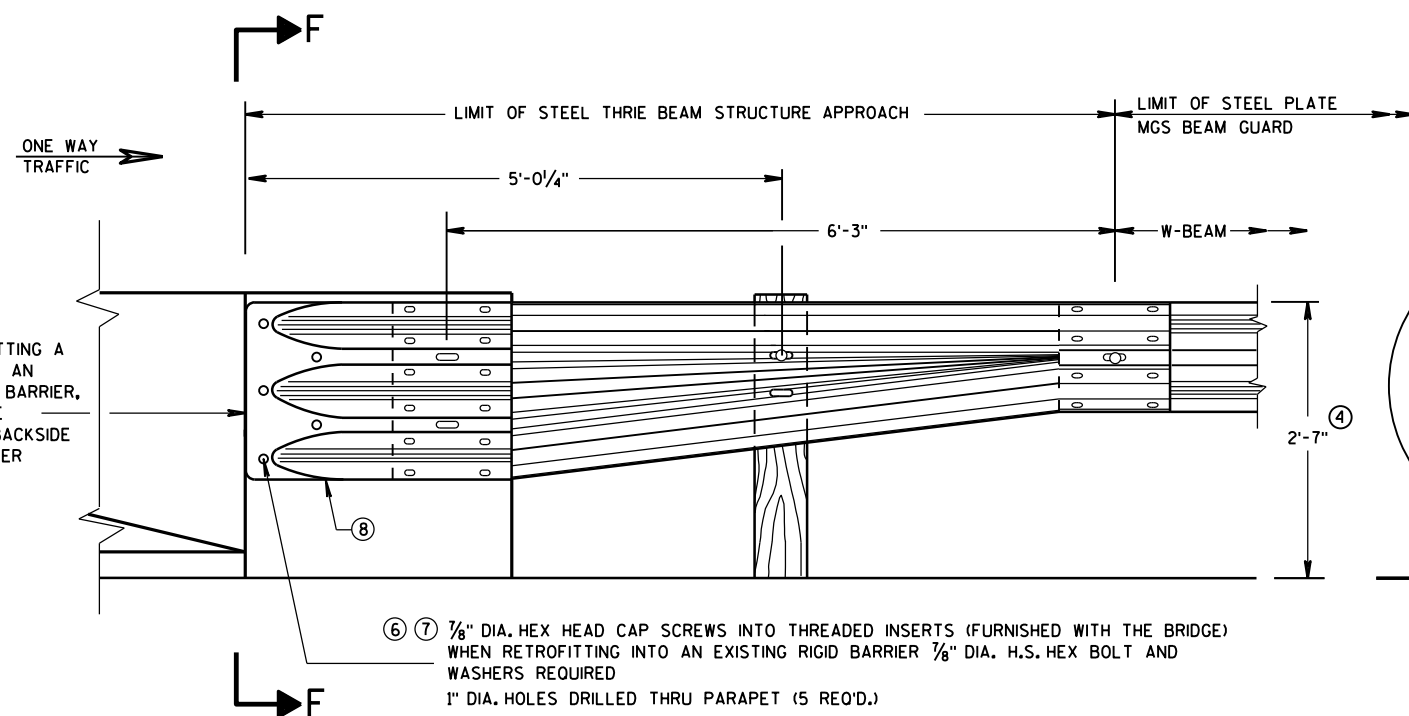
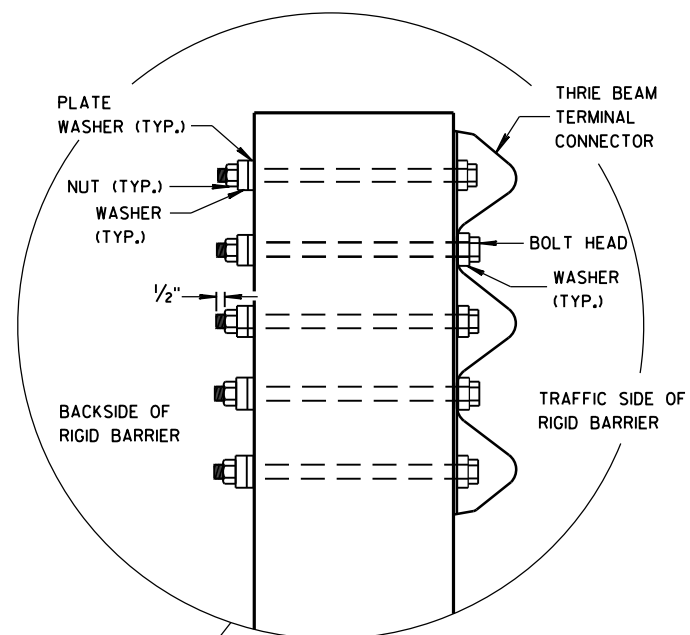


THRIE BEAM CONNECTION TO BRIDGE PARAPET WITH SQUARE ENDS

GENERAL NOTES

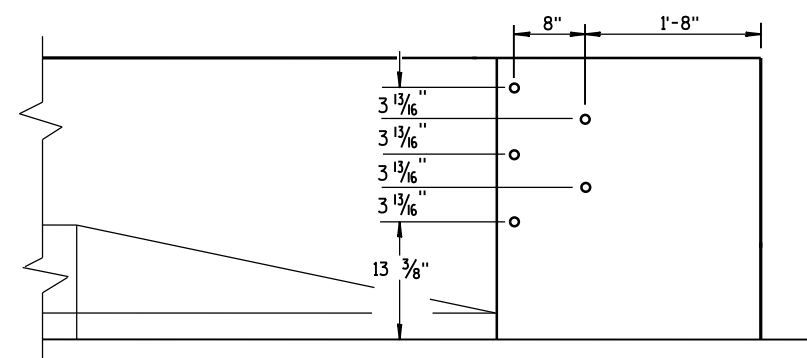
THESE ARE TYPICAL CONNECTION DETAILS. ADJUST THE POSITION OF CONNECTIONS TO EXISTING BRIDGES TO FIT THE ACTUAL BRIDGE AND SITE DIMENSIONS.

- ② OPTIONAL CURB AND GUTTER OR DRAINAGE FEATURE SEE PLAN FOR INFORMATION.
- ④ TOLERANCE FOR TOP OF BEAM IS $\pm 1"$.
- ⑥ DRILLING BOLT HOLES THROUGH THE PARAPET, BOLTS, NUTS, WASHERS AND REPAIRING DAMAGED CONCRETE ARE INCIDENTAL TO THE CONTRACT.
- ⑦ BOLTS MAY BE A325 BOLTS OR A449 BOLTS. BOLT LENGTH AND THREADING LENGTH ARE TO ALLOW FOR A TIGHT CONNECTION BETWEEN RIGID BARRIER AND THRIE BEAM CONNECTION PLATE. CONTRACTOR IS TO FIELD VERIFY BOLT LENGTH AND THREAD LENGTH. ONE ROUND WASHER REQUIRED BETWEEN BOLT HEAD AND THRIE BEAM CONNECTOR PLATE. BOLTS THAT EXTEND THROUGH THE PARAPET AND OUT THE BACK FACE REQUIRE A HARDENED ROUND STEEL WASHER THAT IS 2" O.D. X 5/8" THICK AND ONE PLATE WASHER. REPAIR ANY DAMAGED CONCRETE FROM BOLT INSTALLATION.
- ⑧ THE RECESS FOR A W-BEAM CONNECTION, WHICH EXISTS ON SOME PARAPETS OF THIS TYPE, SHALL BE FILLED WITH A TREATED TIMBER BLOCKOUT. BLOCKOUT SIZE IS 1'-6" X 2'-0" X 3 1/2".



W BEAM TRANSITION AND CONNECTION TO BRIDGE PARAPETS WITH SQUARE ENDS (USE ONLY ON THE TRAFFIC EXIT END OF ONE WAY BRIDGES)

SECTION F-F

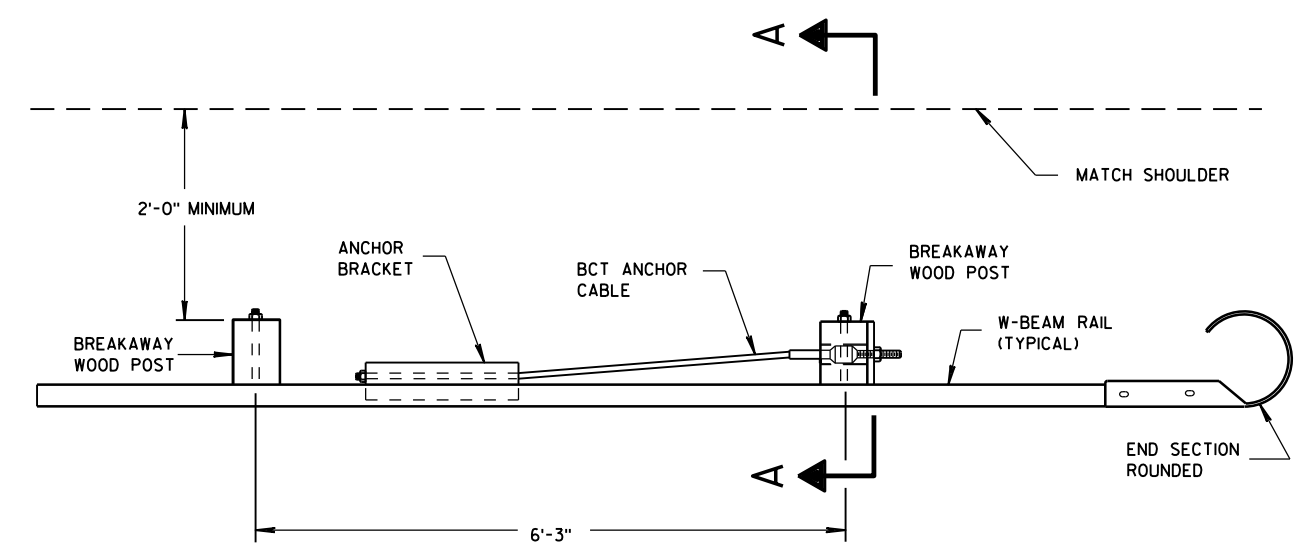


DRILL HOLE LOCATION

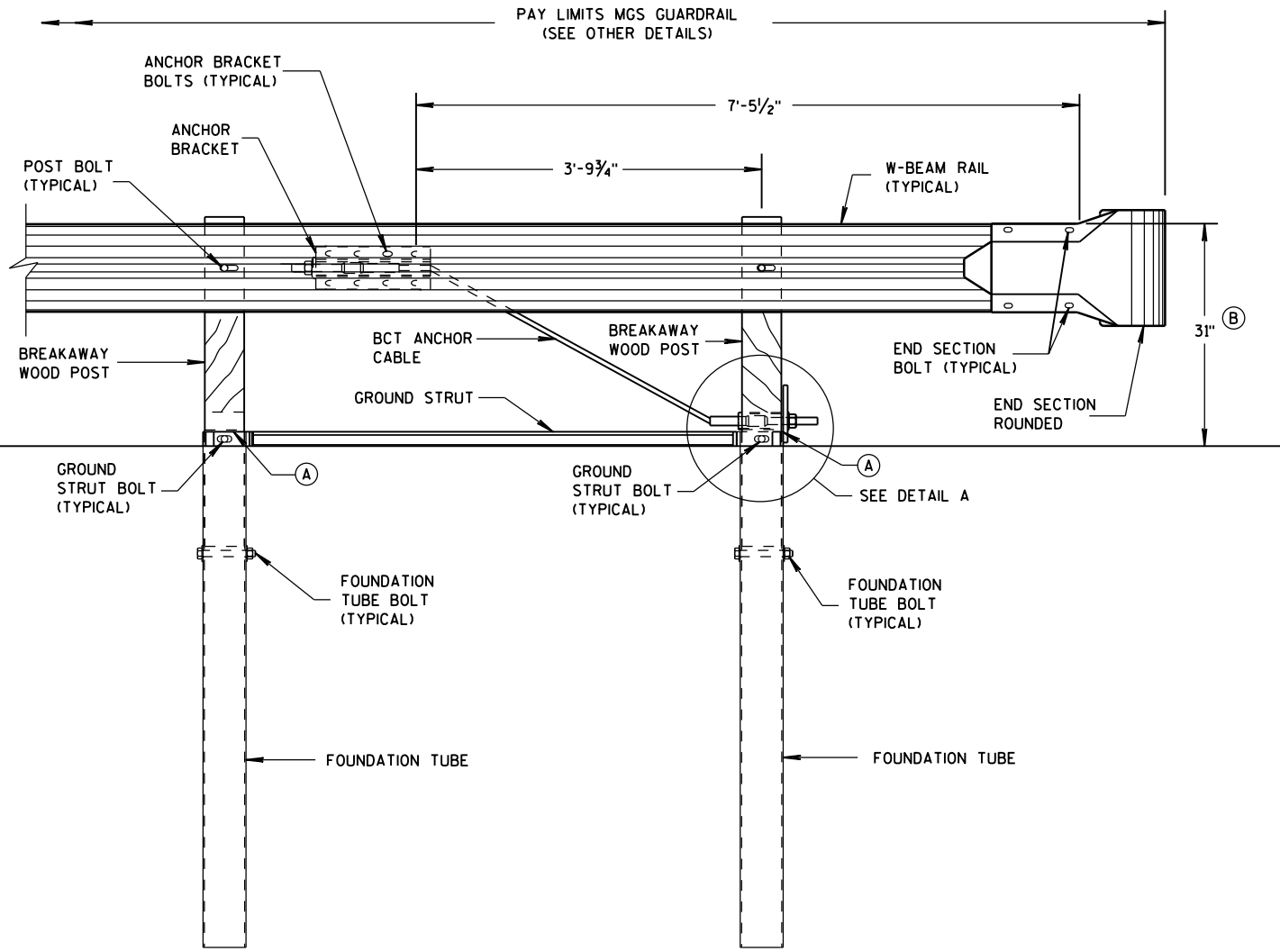
MIDWEST GUARDRAIL SYSTEM
THRIE BEAM TRANSITION (MGS)

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
June, 2015
DATE
/S/ Jerry H. Zogg
ROADWAY STANDARDS DEVELOPMENT
ENGINEER
FHWA

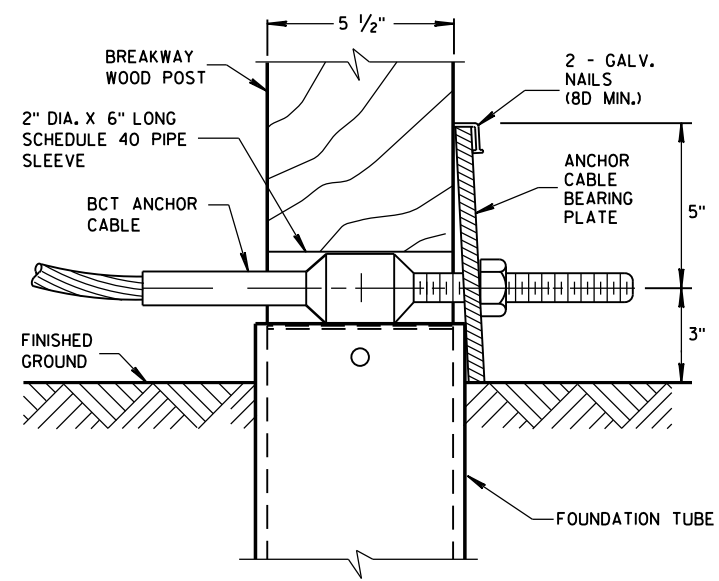


PLAN VIEW



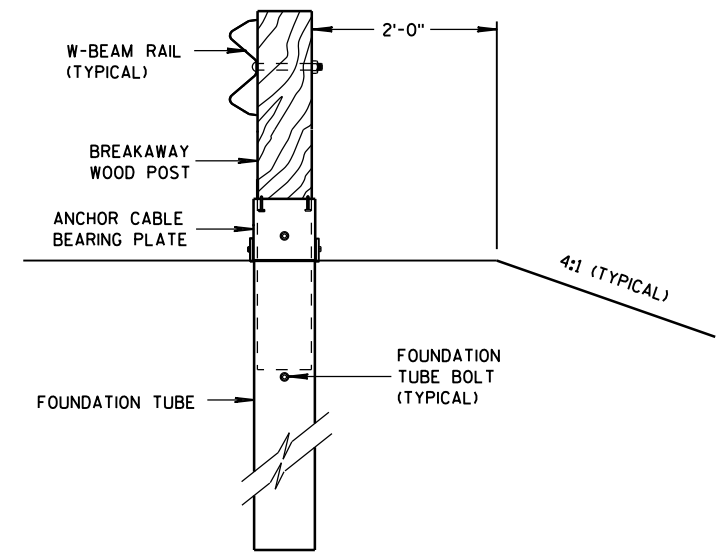
FRONT VIEW

END RAIL DETAIL



DETAIL A

POST NO. 1
GROUND STRUT NOT SHOWN FOR CLARITY.



SECTION A-A

GENERAL NOTES

SEE SDD 14 B 42 FOR MORE INFORMATION.

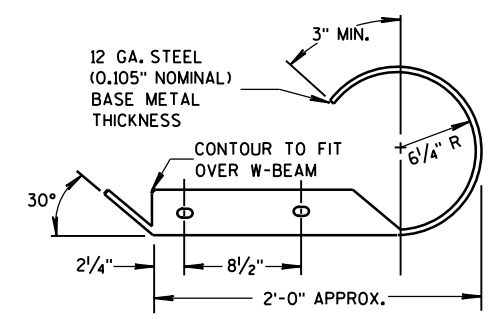
END SECTION BOLTS AND NUTS HAVE THE SAME MATERIAL REQUIREMENTS AS SPLICE BOLTS.

FOUNDATION TUBE BOLTS ARE 7/8" DIAMETER ASTM A307 HEX HEAD BOLT. FOUNDATION TUBE BOLTS REQUIRE ASTM A563 A NUT AND TWO ASTM F844 7/8" DIAMETER FLAT WASHERS. INSTALL ONE WASHER UNDER BOLT HEAD AND ONE WASHER UNDER NUT.

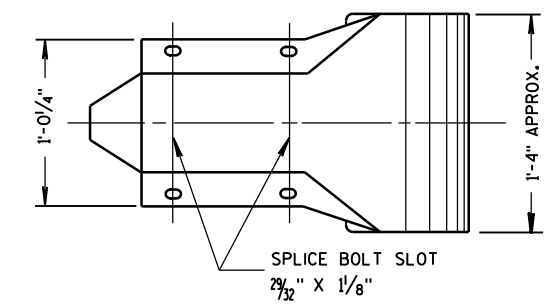
ANCHOR BRACKET AND GROUND STRUT BOLTS ARE A 5/8" DIAMETER ASTM A307 HEX HEAD BOLT. ANCHOR BRACKET BOLTS REQUIRE ASTM A563 A NUT AND TWO ASTM F844 5/8" DIAMETER FLAT WASHERS. INSTALL ONE WASHER UNDER BOLT HEAD AND ONE WASHER UNDER NUT.

W-BEAM END SECTION ROUNDED HAS THE SAME MATERIAL PROPERTIES AS STANDARD STEEL RAIL.

- (A) TOP OF FOUNDATION TUBE SHALL BE NO MORE THAN 3" ABOVE FINISHED GROUND.
- (B) FOR NEW CONSTRUCTION TOP OF RAIL IS 31" ± 1". FOR EXISTING INSTALLATIONS TOP OF RAIL IS BETWEEN 27 3/4" TO 32" ± 1".



PLAN VIEW

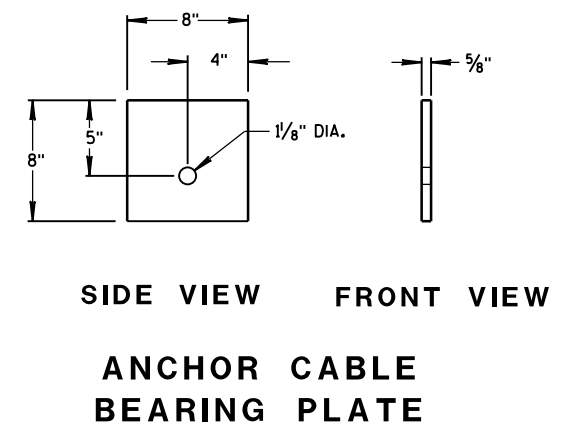
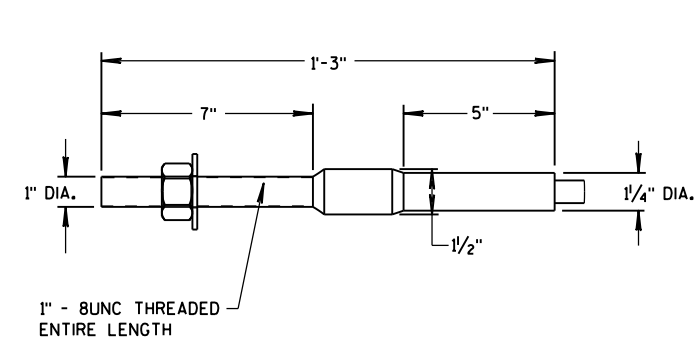
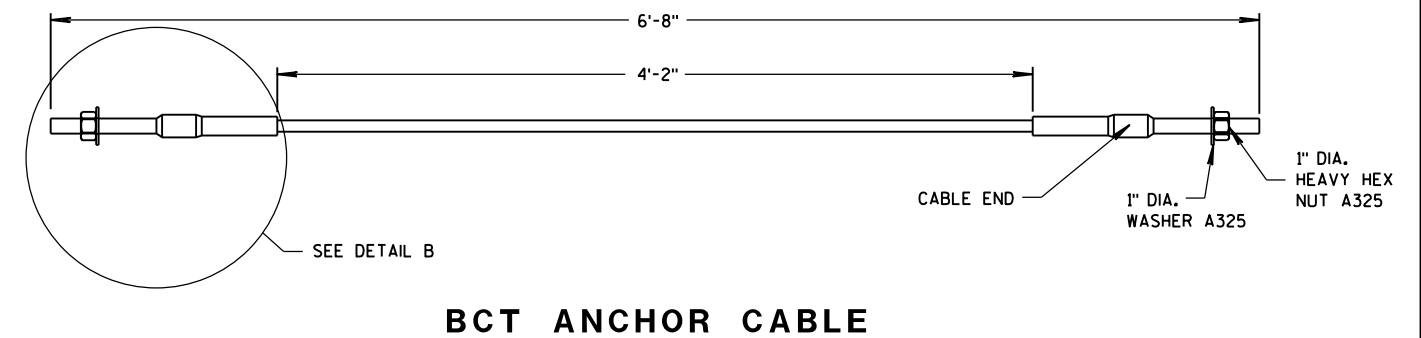
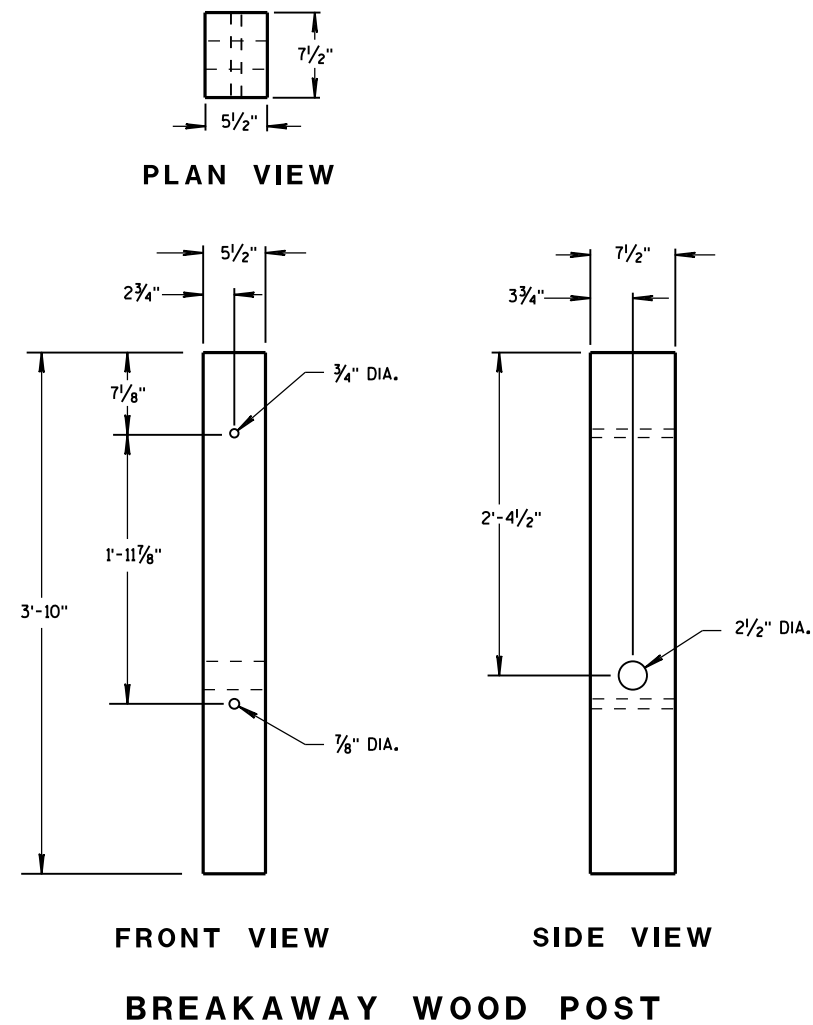
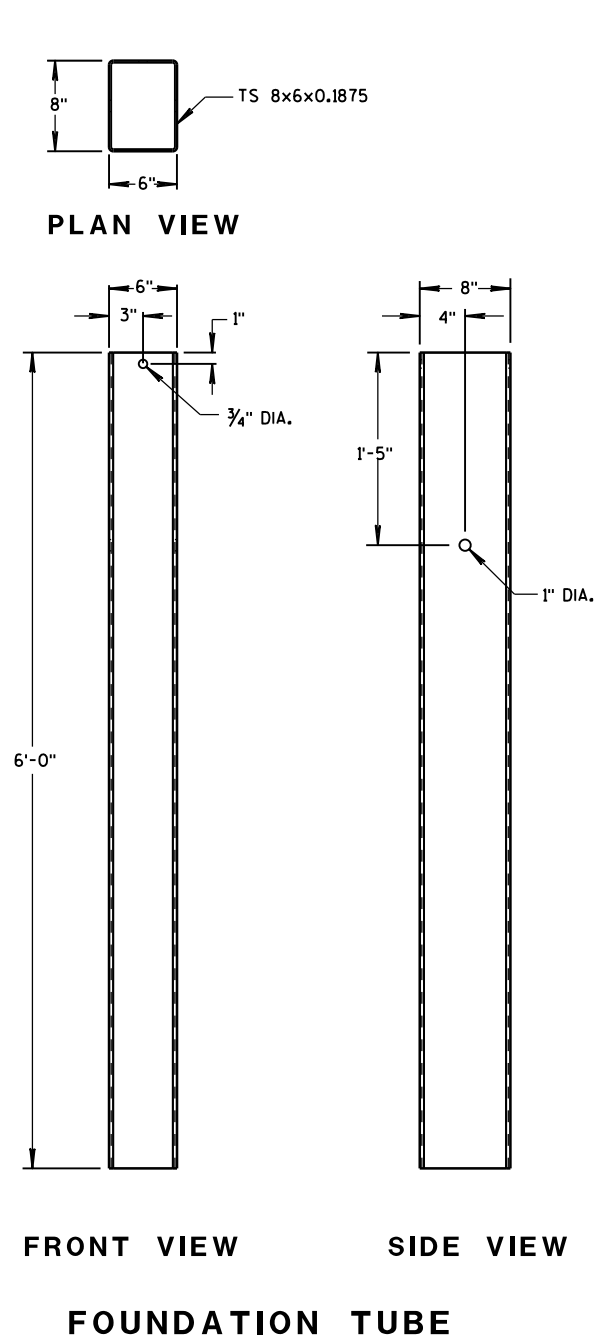


FRONT VIEW

W BEAM END
SECTION ROUNDED

MIDWEST GUARDRAIL
SYSTEM (MGS) TYPE 2 TERMINAL

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

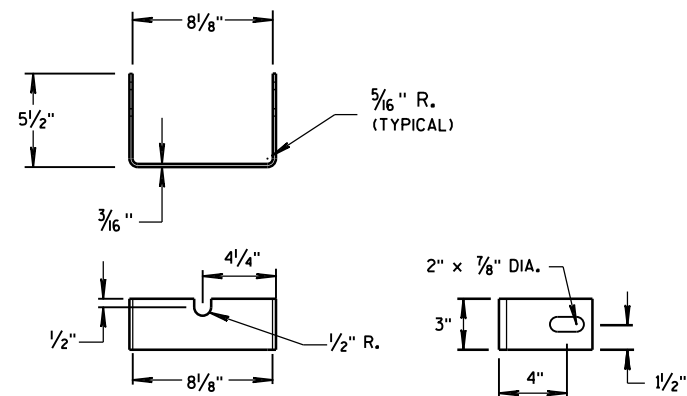


GENERAL NOTES

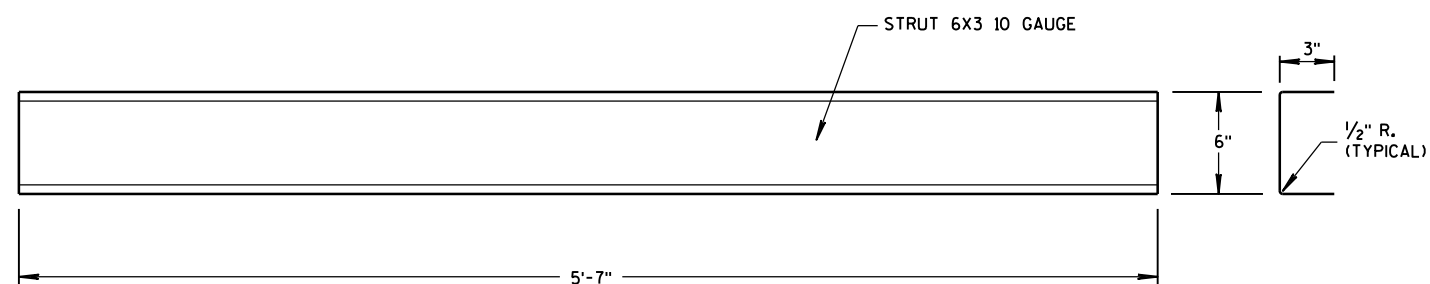
BCT ANCHOR CABLE IS A 3/4" DIAMETER 6X19 IWRC IPS GALVANIZED WIRE ROPE. THE SWAGED FITTINGS AND STUD ARE REQUIRED. END FITTING SHALL BE MACHINED FROM HOT-ROLLED CARBON STEEL CONFORMING TO ASTM A576 GRADE 1035 AND GALVANIZED ACCORDING TO ASTM A123. TREADED STUD SHALL CONFORM TO ASTM A325 OR SAE GRADE 5. MINIMUM BREAKING STRENGTH OF WIRE ROPE IS 43,000 LB. WIRE ROPE IS TO BE TAUT.

MIDWEST GUARDRAIL
SYSTEM (MGS) TYPE 2 TERMINAL

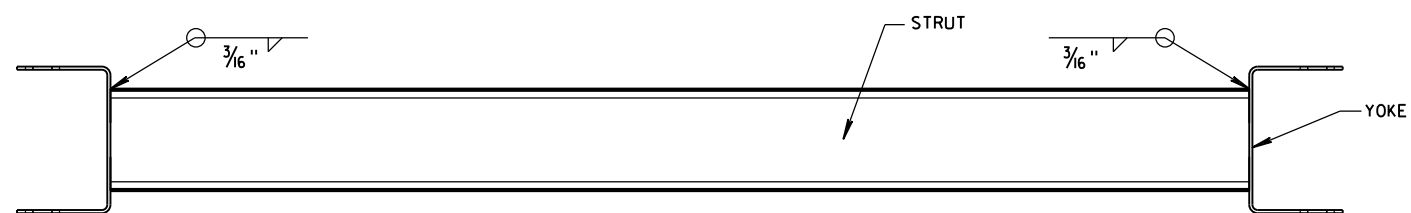
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION



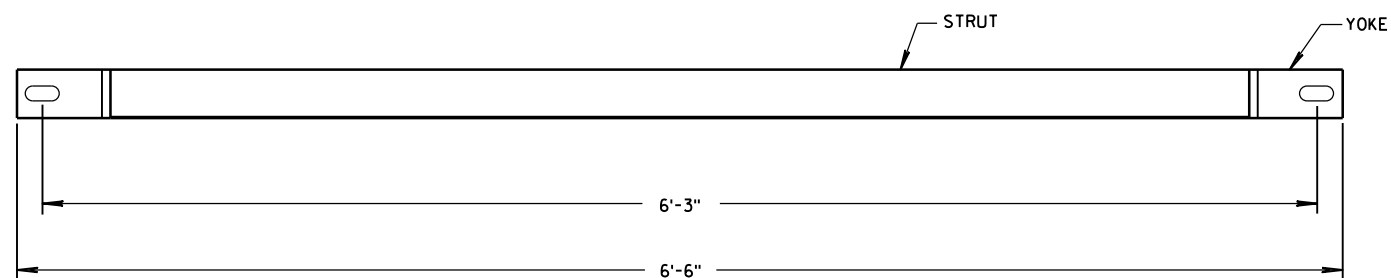
YOKE DETAIL



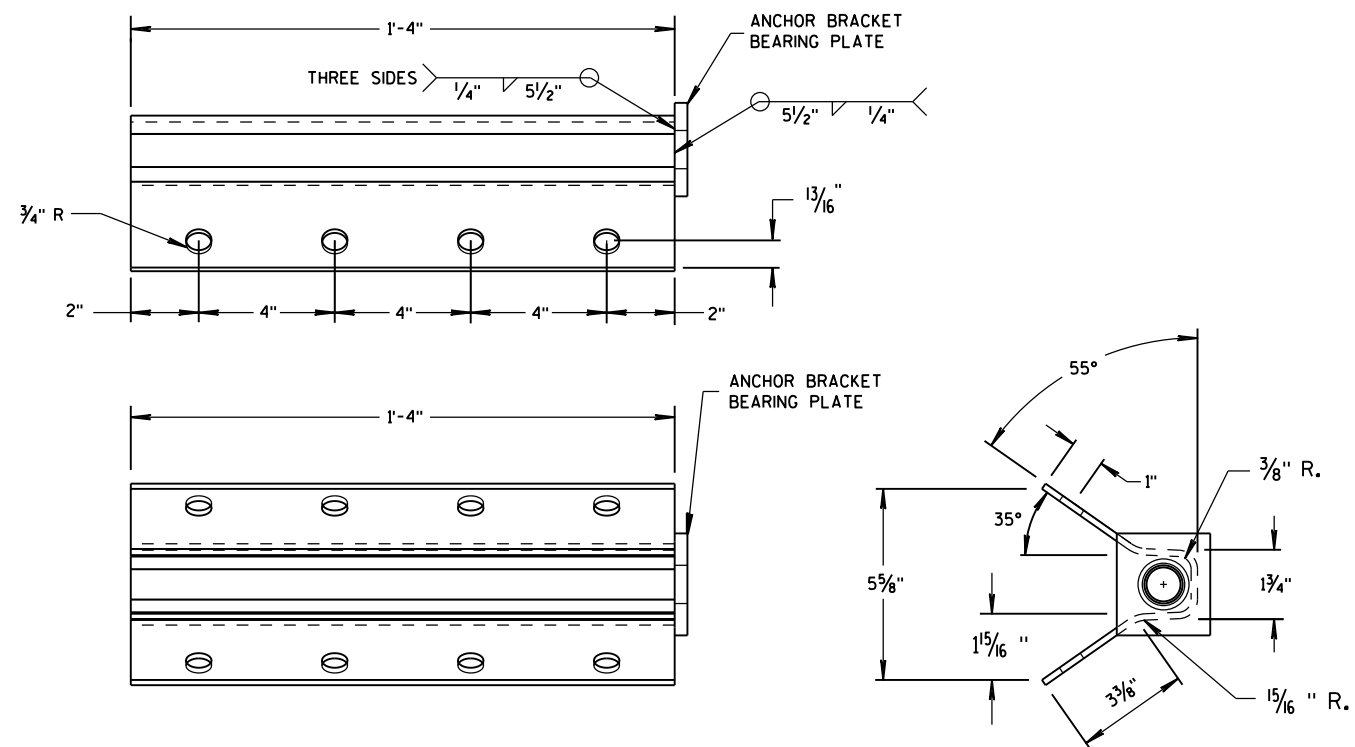
STRUT DETAIL



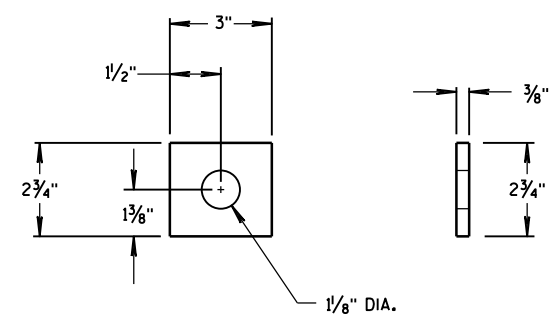
PLAN VIEW



FRONT VIEW
GROUND STRUT DETAIL



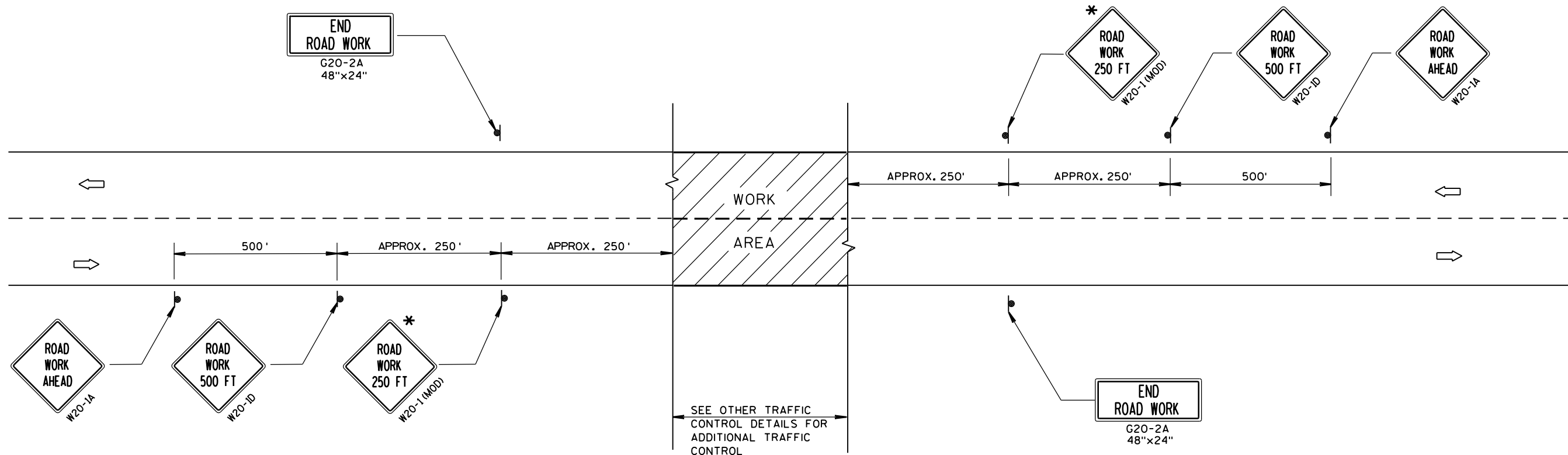
ANCHOR BRACKET

ANCHOR BRACKET
BEARING PLATE

MIDWEST GUARDRAIL
SYSTEM (MGS) TYPE 2 TERMINAL

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
June 2014 /S/ Jerry H. Zogg
DATE ROADWAY STANDARDS DEVELOPMENT
ENGINEER
FHWA



TYPICAL SIDEROAD APPROACH WARNING SIGN DETAIL

GENERAL NOTES

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

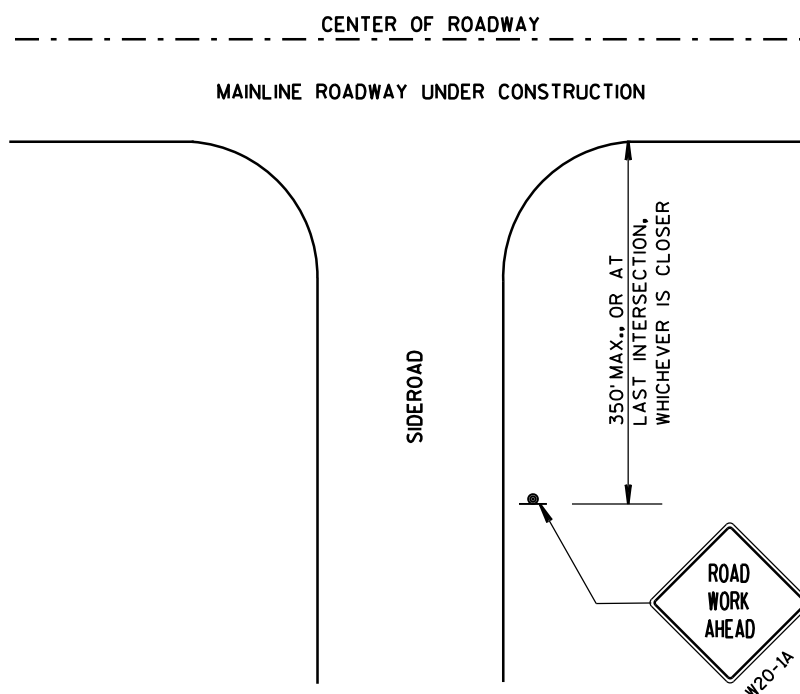
THE SPACING BETWEEN TRAFFIC CONTROL SIGNS SHOULD BE ADJUSTED TO NOT CONFLICT WITH AND SHOULD PROVIDE A DESIRABLE MINIMUM OF 200 FEET CLEARANCE TO EXISTING SIGNS THAT WILL REMAIN IN PLACE.

ALL SIGNS ARE 48"x48" UNLESS OTHERWISE NOTED. IF NECESSARY DUE TO SPACE CONSTRAINTS, 36"x36" SIGNS MAY BE USED INSTEAD OF 48"x48" SIGNS.

SIGNS THAT WILL BE IN PLACE LESS THAN 7 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 RE-ESTABLISHED.

* THE THIRD W20-1 SIGN IS REQUIRED ONLY IF THERE IS AN INTERSECTION BETWEEN THE "ROAD WORK 500 FT" SIGN AND THE WORK ZONE. ADJUST THE PLACEMENT OF THIS SIGN BASED ON INTERSECTION LOCATION AND OTHER FIELD CONDITIONS.



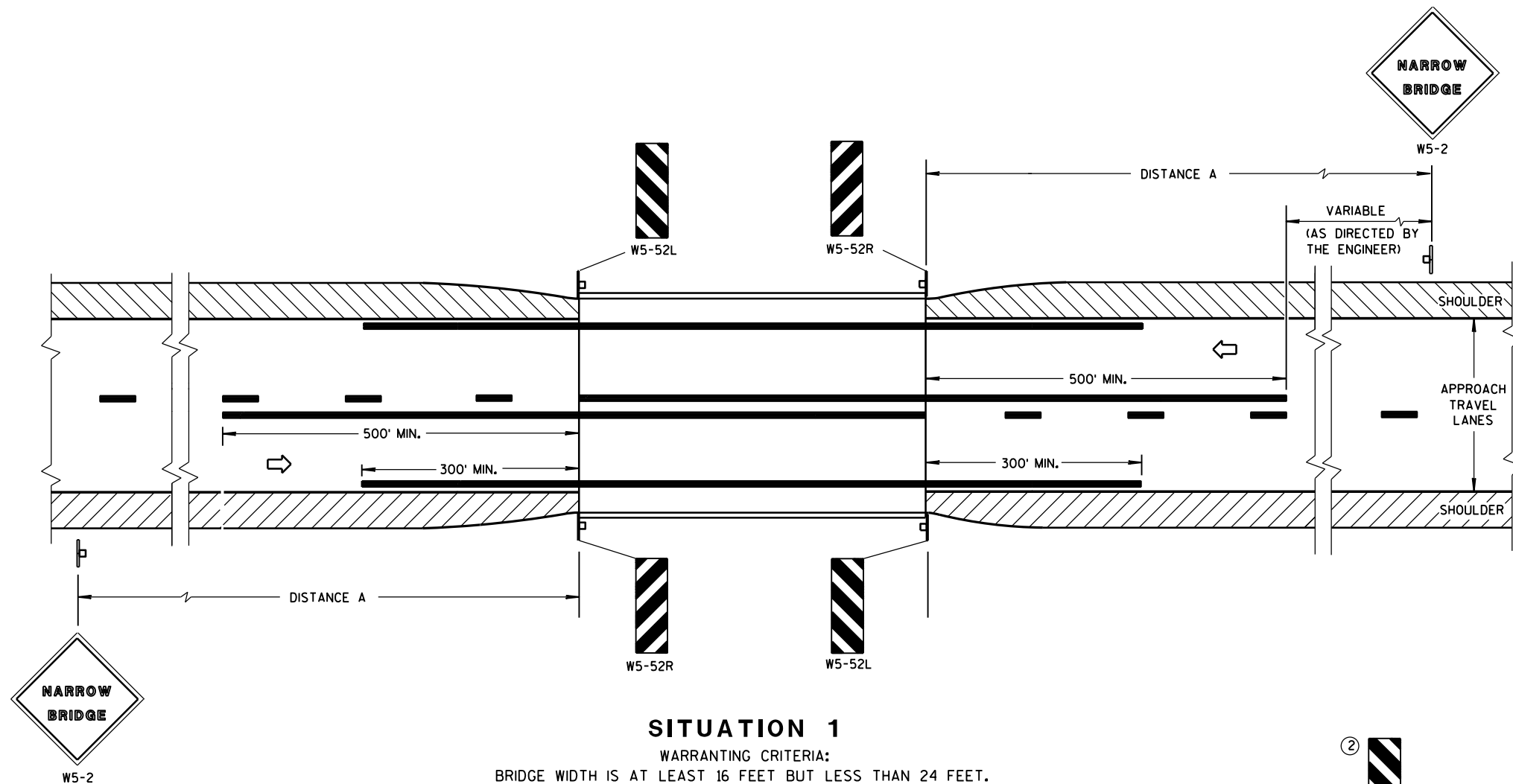
LEGEND

- SIGN ON PERMANENT SUPPORT
- DIRECTION OF TRAFFIC
- WORK AREA

TRAFFIC CONTROL, ADVANCE
WARNING SIGNS 40 M.P.H.
OR LESS TWO-WAY UNDIVIDED
ROAD OPEN TO TRAFFIC

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
Sept. 2015 /S/ Peter Amakobe Atepe
DATE STATEWIDE WORK ZONE TRAFFIC
FHWA SAFETY ENGINEER



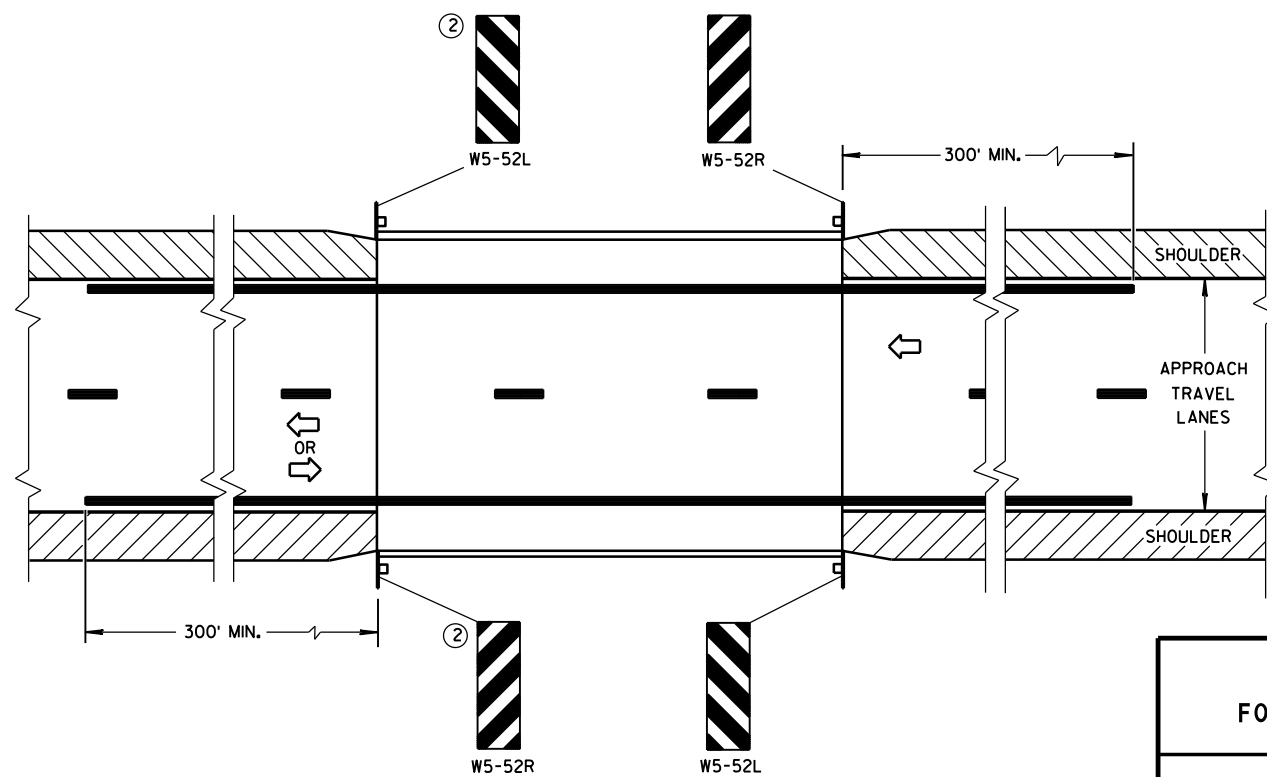
DISTANCE TABLE

POSTED OR 85th PERCENTILE SPEED	DISTANCE "A"
25	150'
30	200'
35	250'
40	300'
45	400'
50	550'
55	750'

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.

- ① LOCATE W5-52 SIGN POST(S) BEHIND GUARDRAIL WHEN PRESENT.
- ② OMIT ON ONE-WAY TRAVELLED WAYS.
- ③ EDGE OF W5-52 SIGN SHALL BE PLACED IN LINE WITH FACE OF CURB OR PARAPET.

SIGNING & MARKING
FOR TWO LANE BRIDGES

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

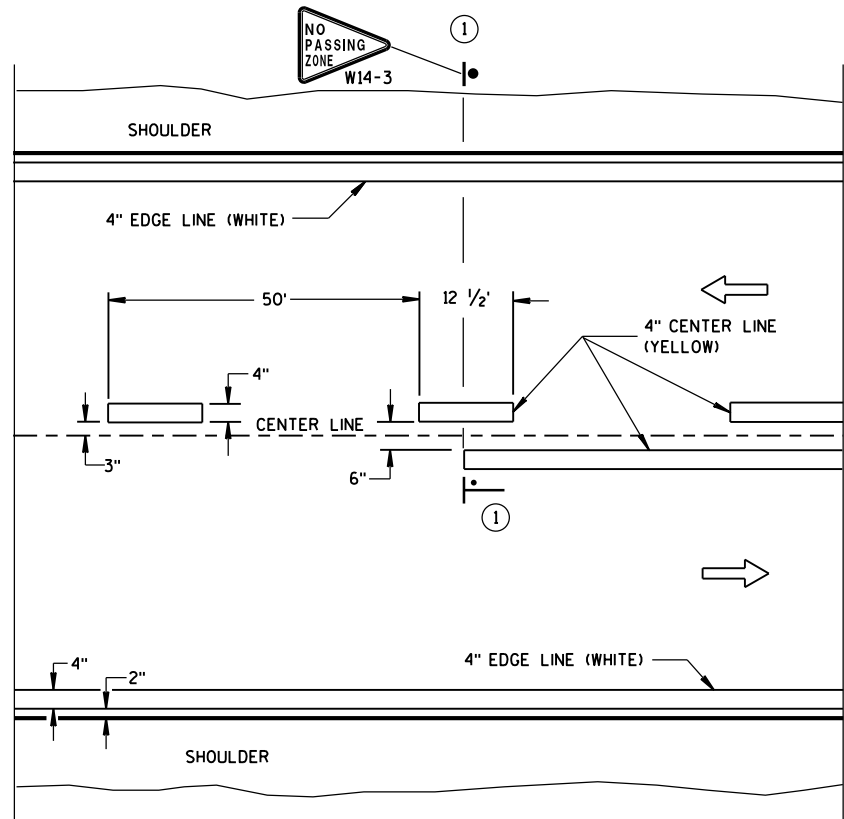
APPROVED

4-18-16

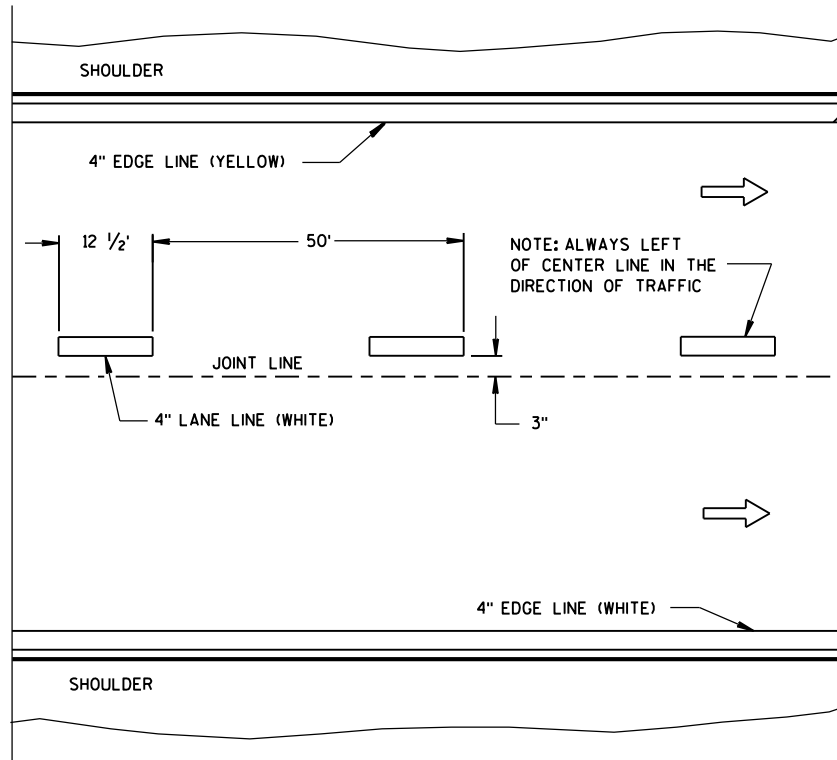
DATE

FHWA

/S/ Matthew R. Rauch
STATE SIGNING AND MARKING ENGINEER

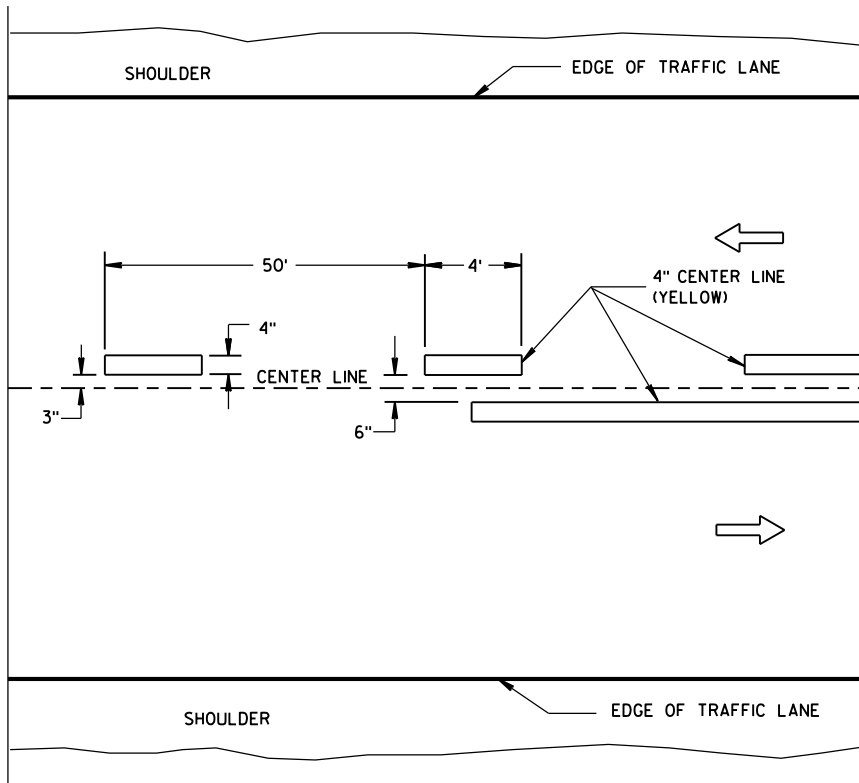


TWO WAY TRAFFIC

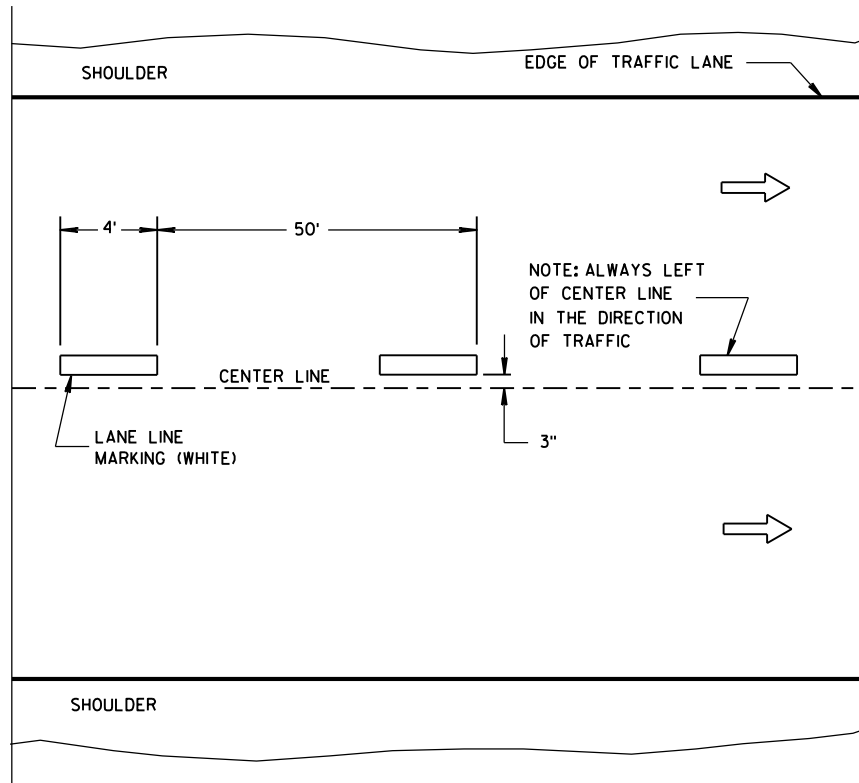


ONE WAY TRAFFIC

PERMANENT PAVEMENT MARKING



TWO WAY TRAFFIC



ONE WAY TRAFFIC

TEMPORARY PAVEMENT MARKING

GENERAL NOTES

DETAILS OF CONSTRUCTION NOT SHOWN ON THIS DRAWING SHALL CONFORM TO STANDARD SPECIFICATIONS AND SPECIAL PROVISIONS.

① NO PASSING ZONE W14-3 SIGN SHALL BE LOCATED WITHIN 50 FEET OF THE "T" MARKING.

NOTE

ARROW SYMBOL (→) SHOWS DIRECTION OF TRAVEL

LEGEND

—●— "T" MARKING





● POST MOUNTED SIGN

LONGITUDINAL MARKING
(MAINLINE)

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
Sept., 2016 /S/ Matthew R. Rauch
DATE STATE SIGNING AND MARKING ENGINEER
FHWA

LEGEND

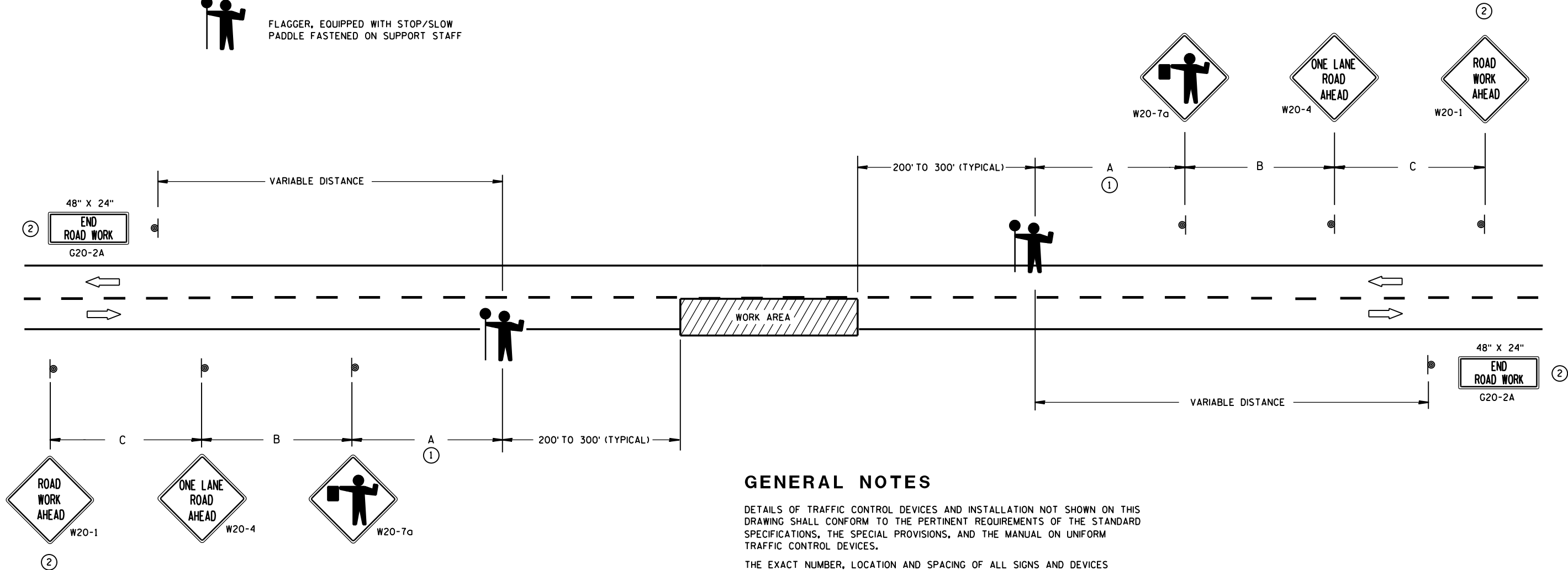
-  SIGN ON PORTABLE OR PERMANENT SUPPORT
-  DIRECTION OF TRAFFIC
-  WORK AREA
-  FLAGGER, EQUIPPED WITH STOP/SLOW PADDLE FASTENED ON SUPPORT STAFF

SIGN SPACING TABLE

SPEED LIMIT	SIGN SPACING A,B,C
25-35 MPH	200'
35-40 MPH	350'
45-55 MPH	500'



USE OF THE "BE PREPARED TO STOP" SIGN IS OPTIONAL. WHEN USED, THIS SIGN SHALL BE LOCATED BETWEEN THE W20-7a AND W20-4 SIGNS. A 500' TYPICAL SPACING SHALL BE PROVIDED BETWEEN THE SIGNS.



GENERAL NOTES

DETAILS OF TRAFFIC CONTROL DEVICES AND INSTALLATION NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS, THE SPECIAL PROVISIONS, AND THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES.

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

THE FIRST ADVANCE WARNING SIGN SHOULD TYPICALLY BE LOCATED IN ADVANCE OF THE ANTICIPATED TRAFFIC BACKUP OR QUEUE.

WHEN A SIDE ROAD OR RAMP INTERSECTS THE FACILITY ON WHICH THE WORK IS BEING PERFORMED, ADDITIONAL TRAFFIC CONTROLS SHALL BE PROVIDED AS SPECIFIED IN THE PLANS AND/OR THE SPECIAL PROVISIONS OR AS APPROVED BY THE ENGINEER.

FLAGGERS SHALL BE IN SIGHT OF EACH OTHER OR IN DIRECT COMMUNICATION AT ALL TIMES. THEY SHALL BE EQUIPPED WITH STOP/SLOW PADDLES FASTENED ON SUPPORT STAFFS. WHEN THE FLAGGING OPERATION IS NOT IN EFFECT, COVER OR REMOVE ALL TEMPORARY TRAFFIC CONTROL SIGNS.

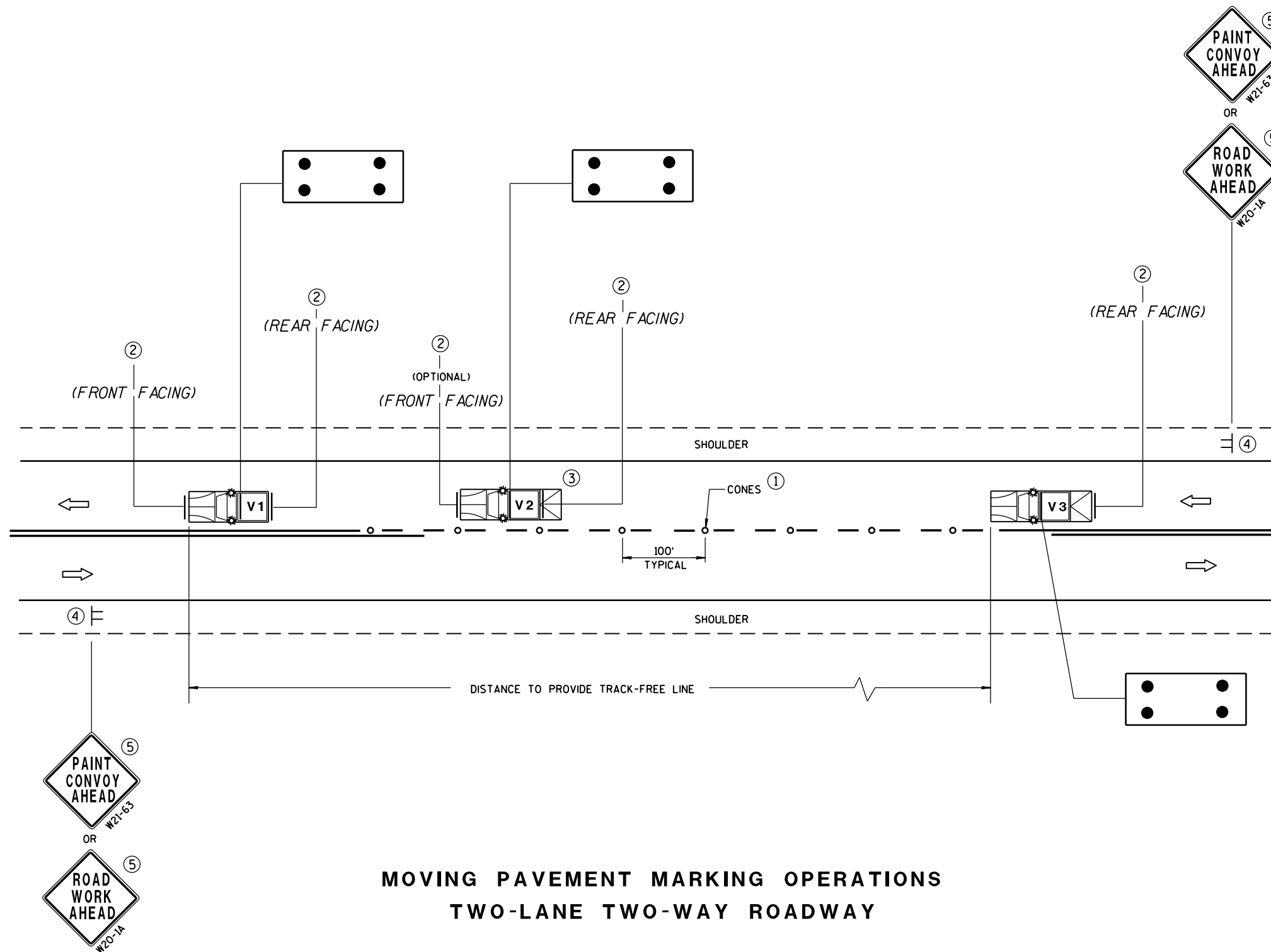
ALL SIGNS ARE 48" X 48" UNLESS OTHERWISE NOTED.

- ① FOR A MOVING WORK OPERATION, SIGNING FOR BOTH DIRECTIONS SHALL BE REESTABLISHED (AS SIMULTANEOUSLY AS PRACTICAL) AT APPROXIMATELY 3500 FOOT INTERVALS IN THE MOVING WORK OPERATION OR AS APPROVED BY THE ENGINEER.
- ② SIGN NOT REQUIRED IF FLAGGING OPERATION OCCURS WITHIN A SIGNED ROAD WORK ZONE AREA.

TRAFFIC CONTROL FOR LANE CLOSURE (SUITABLE FOR MOVING OPERATIONS)

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
8/2013 /S/ Travis Feltes
DATE STATE TRAFFIC ENGINEER OF DESIGN
FHWA



MOVING PAVEMENT MARKING OPERATIONS TWO-LANE TWO-WAY ROADWAY

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.

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.

IF SPEED LIMIT IS 40 MPH OR LESS STATIONARY SIGNS MAY BE OMITTED IF CONES ARE USED.

ALTERNATE SIGN MESSAGES, SUCH AS "PAINT CREW AHEAD" OR "ROAD PAINTING AHEAD" MAY BE USED.

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 OR HORIZONTAL CURVES THAT RESTRICT SIGHT DISTANCE.

THE WORK AND SHADOW VEHICLES SHOULD PULL OVER PERIODICALLY TO ALLOW TRAFFIC TO PASS.

THIS DRAWING SHALL BE USED FOR CENTERLINE OR EDGELINE MARKING.

WHEN NO WORK ACTIVITY IS TAKING PLACE, REMOVE OR TURN THE STATIONARY WARNING SIGNS AWAY FROM TRAFFIC.

① CONES MAY BE OMITTED ON PAINTED LINE IF APPROVED BY THE ENGINEER. CONSIDER PAVEMENT MARKING DRY OR CURE TIMES AND TRAFFIC VOLUME.

② USE STANDARD SIGN W21-64 WITH APPROPRIATE ARROW.



OR



③ OPTIONAL TRUCK-MOUNTED ATTENUATOR.

④ SIGNS SHALL BE REPEATED APPROXIMATELY EVERY THREE MILES.

⑤ IF CONSTRUCTION WORK ZONE SIGNS ARE IN PLACE, W20-1 OR W21-63 ARE NOT REQUIRED.

LEGEND

V1 LEAD VEHICLE

V2 SHADOW VEHICLE

V3 TRAIL VEHICLE WITH TMA

TMA TRUCK-MOUNTED ATTENUATOR

SIGN ON TEMPORARY SUPPORT

DIRECTION OF TRAFFIC

CONES

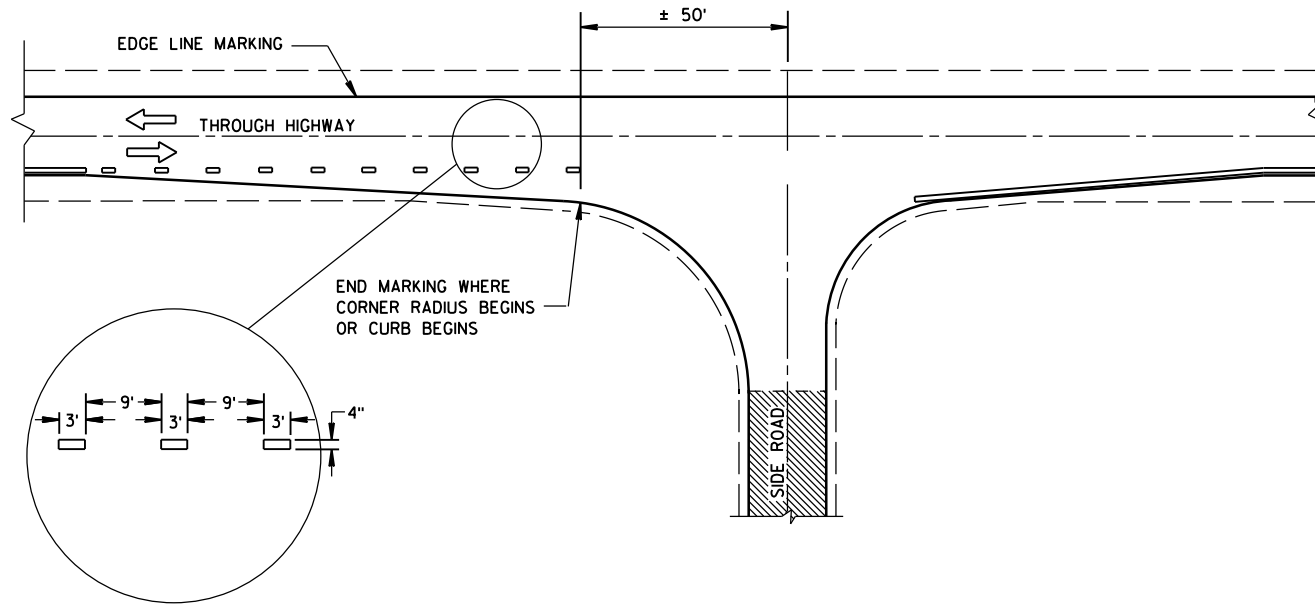
FLASHING ARROW PANEL (CAUTION)

MOVING PAVEMENT MARKING
OPERATION
TWO-LANE TWO-WAY ROADWAY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
June 2016
DATE
FHWA

/S/ Peter Amakobe Atepe
STATEWIDE WORK ZONE TRAFFIC
SAFETY ENGINEER



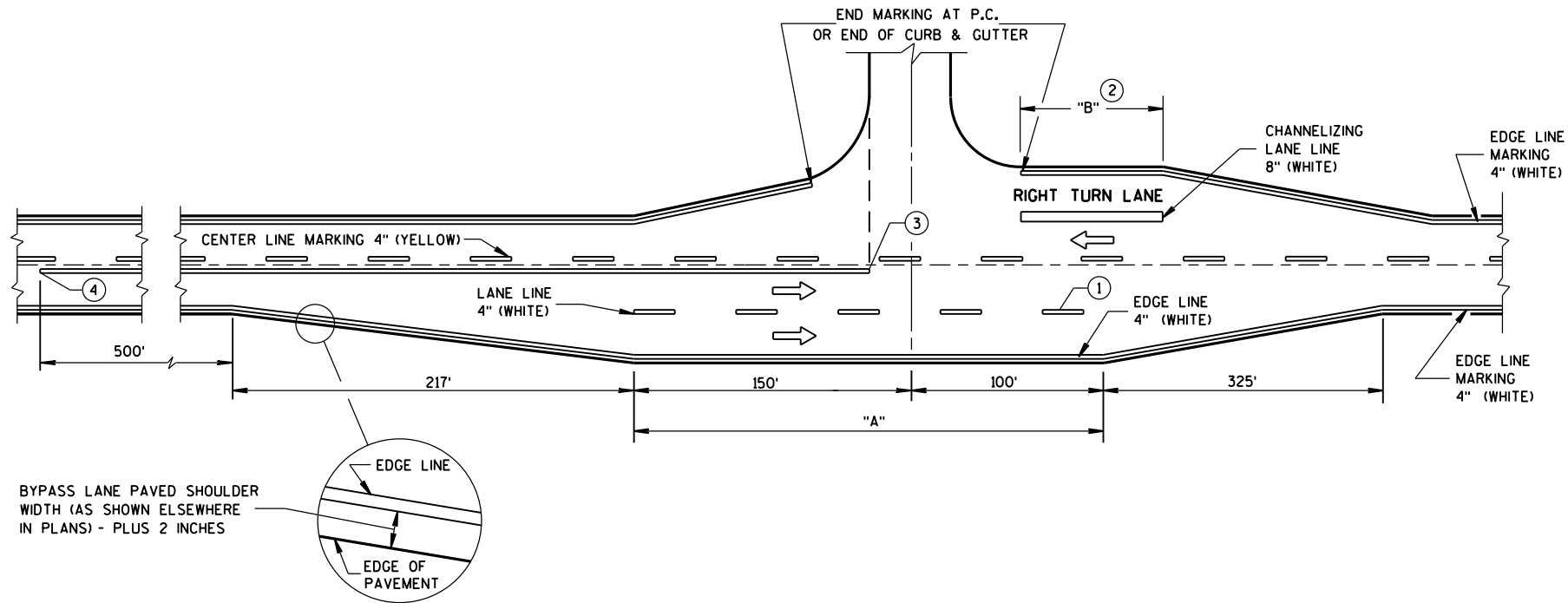
MINOR INTERSECTION WITHOUT CURBS

GENERAL NOTES

EDGE LINES SHALL BE OMITTED THROUGH INTERSECTIONS. EDGE LINES SHALL BE CONTINUED THROUGH DRIVEWAYS.

- ① WHEN DISTANCE "A" IS LESS THAN 250 FEET, OMIT LANE LINE.
- ② WHEN DISTANCE "B" IS LESS THAN 100 FEET, OMIT CHANNELIZING LANE LINE.
- ③ BARRIER LINE ENDS AT SIDE ROAD PAVEMENT/SURFACE EDGE EXTENSION.
- ④ BARRIER LINE STARTS 500 FEET PRIOR TO THE BYPASS TAPER.

ARROW SYMBOL () SHOWS DIRECTION OF TRAVEL



MAJOR INTERSECTIONS
(INTERSECTION WITH FULL RIGHT TURN LANE OR BYPASS LANES)

**PAVEMENT MARKING
(INTERSECTIONS)**

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

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.

ALL SIGNS ARE 48" X 48" UNLESS OTHERWISE NOTED. IF NECESSARY DUE TO SPACE CONSTRAINTS IN URBAN AREAS, 36" X 36" SIGNS MAY BE USED IF APPROVED BY DISTRICT TRAFFIC UNIT.

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

SIGNS THAT WILL BE IN PLACE LESS THAN 7 CONTINUOUS DAYS AND NIGHTS 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.

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.

CHANNELIZING DEVICES PLACED ADJACENT TO THE WORK AREA SHALL BE PULLED BACK FROM THE TRAVEL LANE WHEN WORK IS NOT IN PROGRESS.

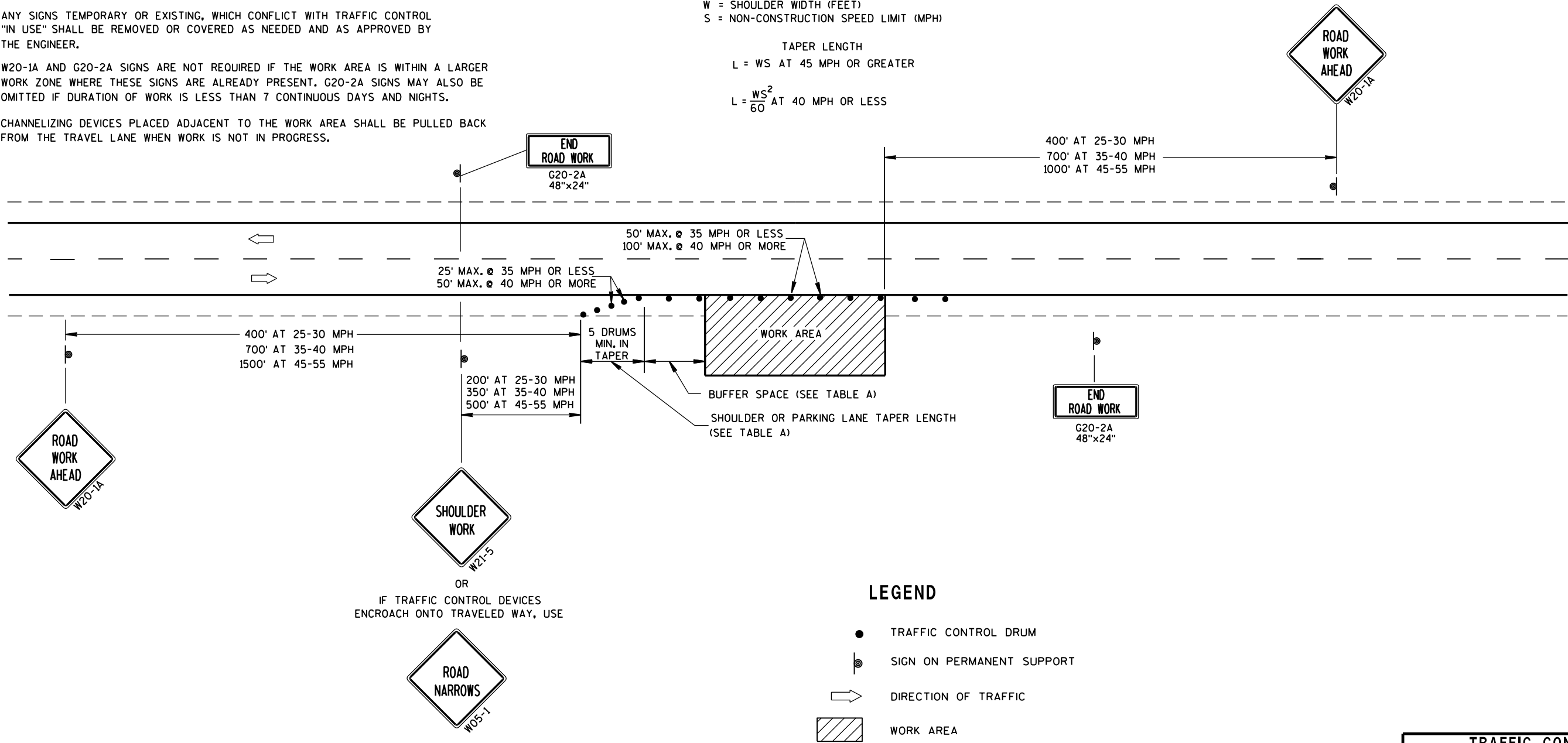
TABLE A

SHOULDER TAPER LENGTH (FEET)					BUFFER SPACE (FEET)
S \ W	4	6	8	10	
30	20	30	40	50	200
35	30	45	55	70	250
40	40	55	75	90	305
45	60	90	120	150	360
50	70	100	135	170	425
55	75	110	150	185	495

W = SHOULDER WIDTH (FEET)
S = NON-CONSTRUCTION SPEED LIMIT (MPH)

TAPER LENGTH
 $L = WS$ AT 45 MPH OR GREATER
 $L = \frac{WS^2}{60}$ AT 40 MPH OR LESS

$SHOULDER\ TAPER\ LENGTH = \frac{1}{3}L$



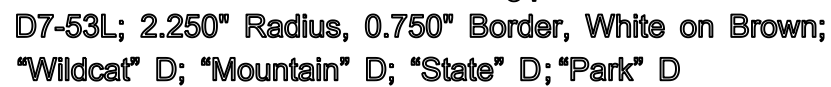
LEGEND

- TRAFFIC CONTROL DRUM
- ⦿ SIGN ON PERMANENT SUPPORT
- ➡ DIRECTION OF TRAFFIC
- ▨ WORK AREA

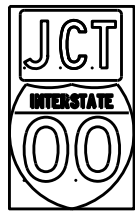
TRAFFIC CONTROL, WORK ON SHOULDER OR PARKING LANE, UNDIVIDED ROADWAY	
STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION	
APPROVED July 14, 2015 DATE	/S/ Peter Amakobe Atepe STATEWIDE WORK ZONE TRAFFIC SAFETY ENGINEER
FHWA	



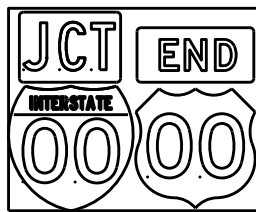
1. All Signs Type II - Type H Reflective
2. Color:
 - Background - Green except as noted
 - Message - White
3. Message Series - E except as noted



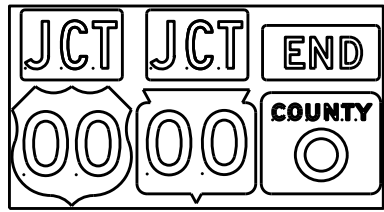
TYPICAL ASSEMBLIES



J1-1



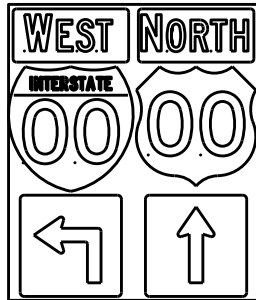
J1-2



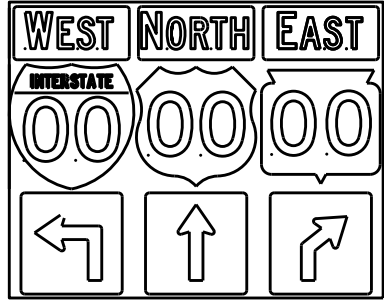
J1-3



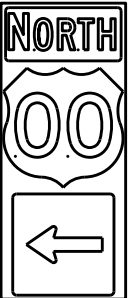
J2-1



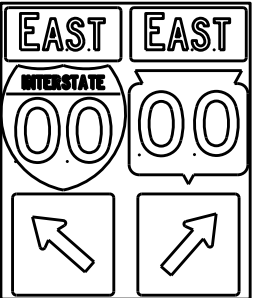
J2-2



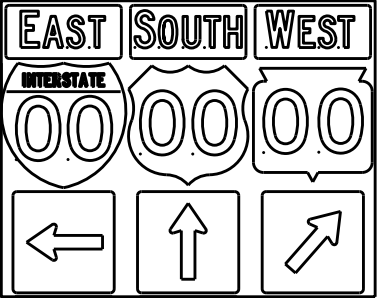
J2-3



J3-1



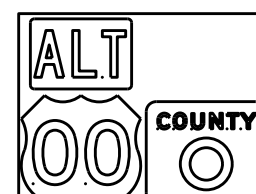
J3-2



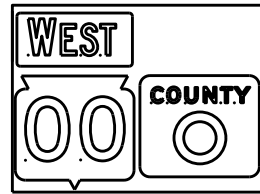
J3-3



J4-1



J4-2



J4-2



J13-1



J12-1



J32-1



J33-1



J23-1

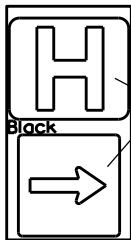


J22-1



JV

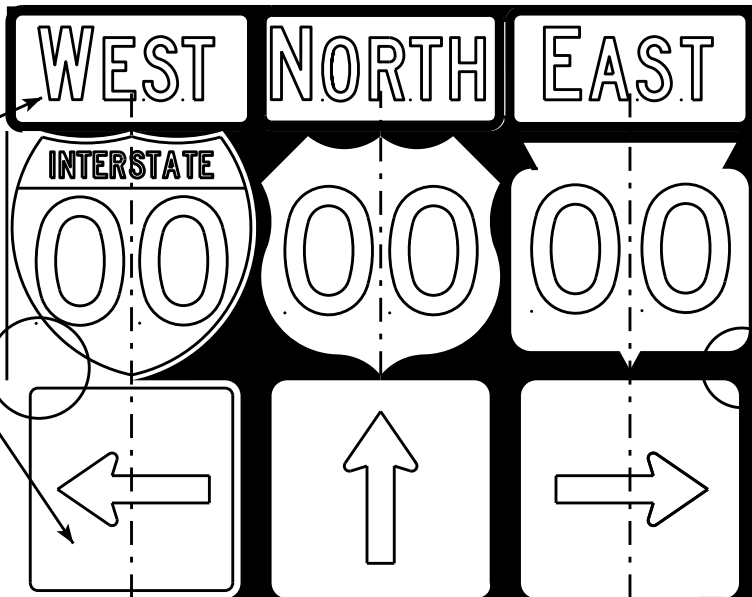
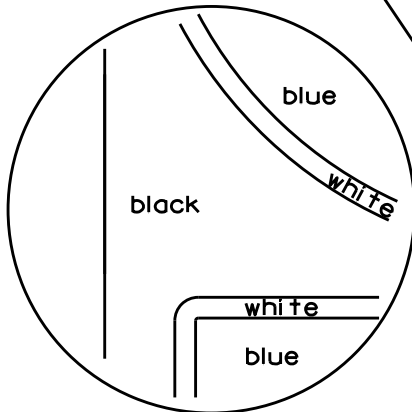
(Typical Vertical J-Assembly
See Note 10 and 11)



JH-1

Blue Background

[blue background
with interstate]



[black background]

ROUTE MARKERS & COMPONENTS
IN TYPICAL ASSEMBLIES

WISCONSIN DEPT OF TRANSPORTATION

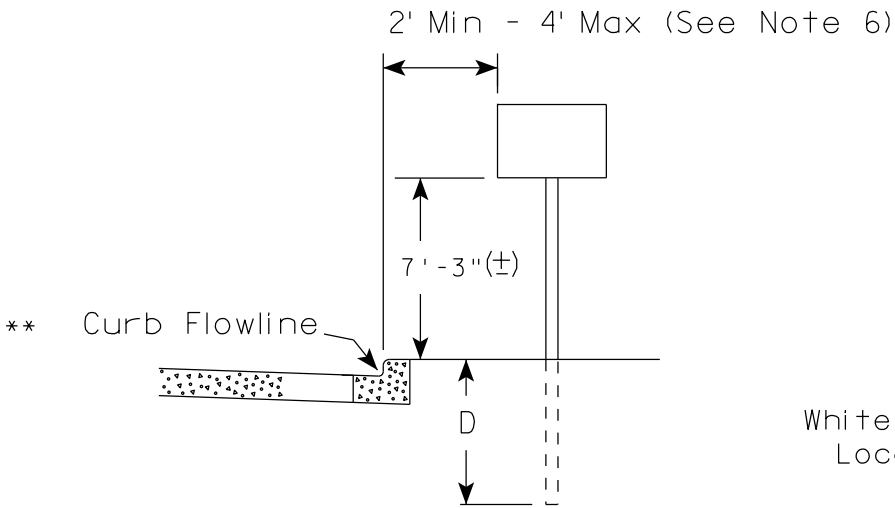
APPROVED *Matthew R. Rauch*
For State Traffic Engineer

DATE 2/06/14 PLATE NO. A2-1S.8

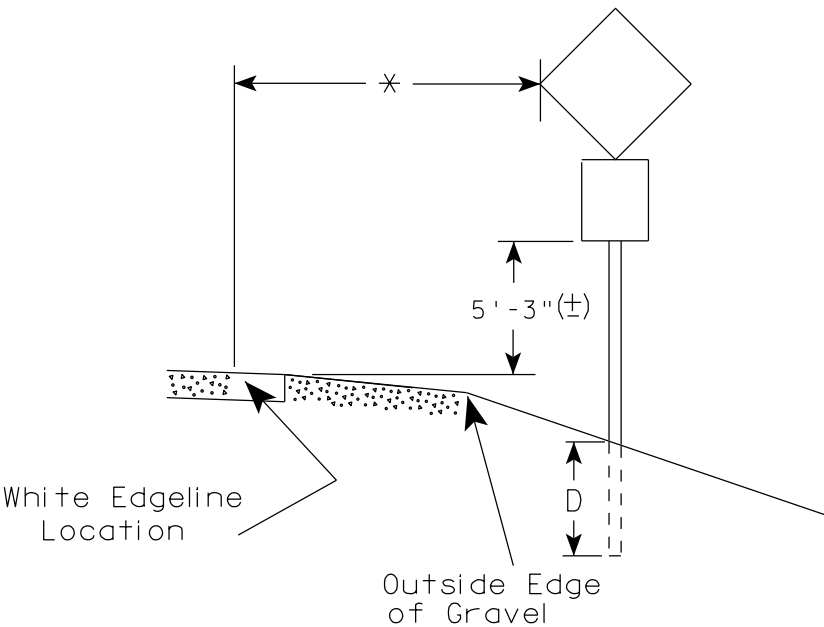
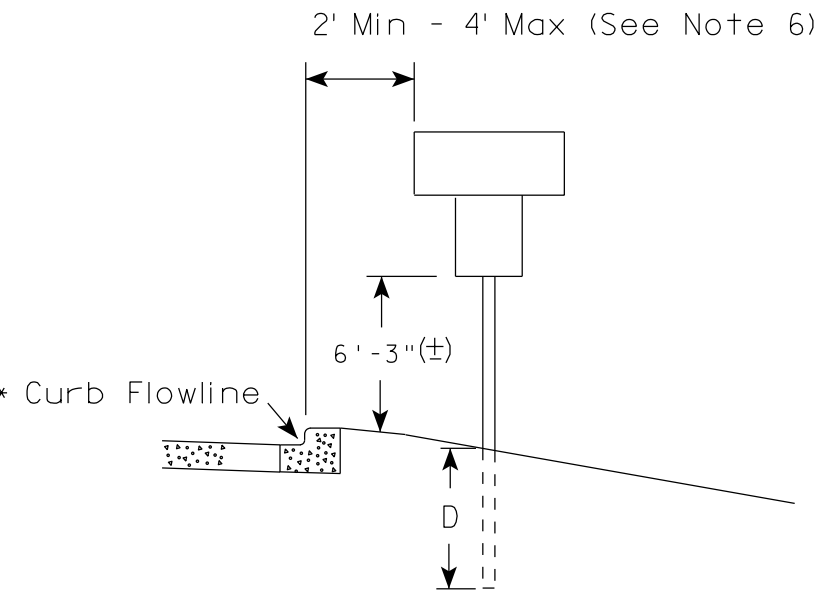
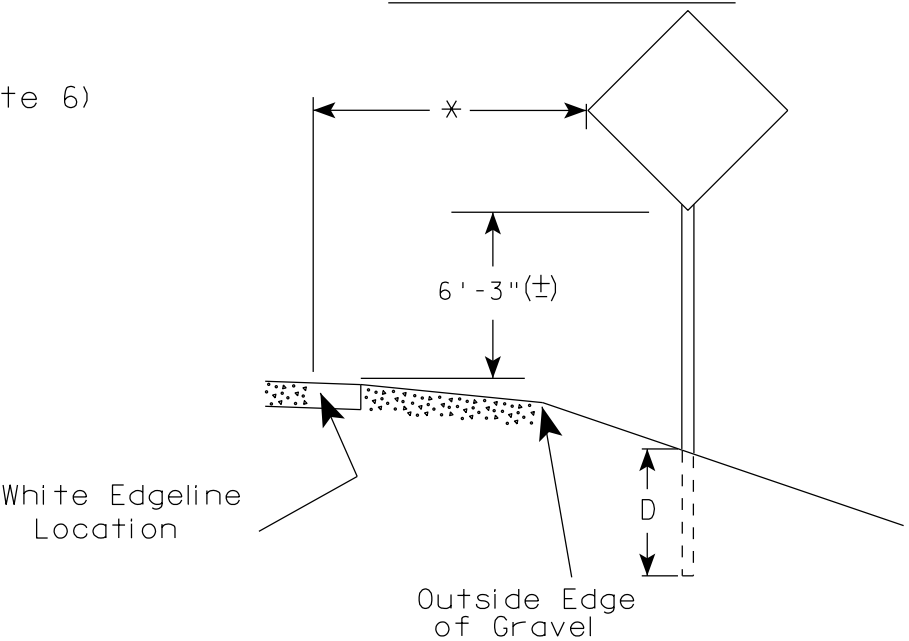
NOTES

1. Signs are Type II - Type H Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
Background - Black Non-reflective
Message - see Note 5
3. Message Series - See Note 5
4. Corners shall be square or rounded if base material is plywood. If base material is metal the corners shall be rounded.
5. The colors and message spacing on each marker shall be according to the applicable route marker panel specifications.
6. Certain marker heads require the component pieces to be the same color. As an example, all the components used with an M1-1 Interstate marker shall be blue.
7. Single panel j-assemblies shall only be used with route marker shields that are same size. If the route marker shields are different size use multiple piece component.
8. Route assemblies that have 24 inch route shields and have dimensions greater than 48 inches (both vertical and horizontal) shall have one horizontal splice between the arrows and route shields. Vertical splices shall not be used on route assemblies with a horizontal dimension of 144 inches or less. The contractor shall not use more than one vertical joint per sign and the joint shall be between route shields.
9. Route assemblies that have 36 inch shields and have dimensions greater than 48 inches (both vertical and horizontal) shall have two horizontal splices. One horizontal splice shall be between the cardinal direction and route shields and the other horizontal splice shall be between the arrows and route shields. Vertical splices shall not be used on route assemblies with a horizontal dimension of 144 or less. The contractor shall not use more than one vertical joint per sign and the joint shall be between route shields.
10. All Vertical J Assemblies are given a Sign Code of JV
11. For JV Assemblies that have a mixture of Interstate and non Interstate shields, arrows and cardinals shall be white on blue.

URBAN AREA



RURAL AREA (See Note 2)



POST EMBEDMENT DEPTH

Area of Sign Installation (Sq.Ft.)	D (Min)
20 or Less	4'
Greater than 20	5'

GENERAL NOTES

1. Signs wider than 4 feet or 20 sq.ft or larger, shall be mounted on multiple posts. Refer to plate A4-4.
2. If signs are mounted on barrier wall, see A4-10 sign plate.
3. For expressways and freeways, mounting height is 7'- 3" (±) or 6'-3" (±) depending upon existence of a sub-sign.
4. Minimum mounting height for J assemblies (A2-1S) is 7'-3" (±) or 6'-3" (±) per urban or rural detail respectively.
5. Minimum mounting height for signs mounted on traffic signal poles is 5'- 3" (±).
6. Offset distance shall be consistent with existing signs or consistent throughout length of project.
7. The (±) tolerance for mounting height is 3 inches.
8. Folding signs shall be mounted at a height of 5'-3" (±) or as directed by the Engineer.
9. The Double Arrow sign (W12-1) shall be mounted at a height of 2'-3" (±). The Chevron sign (W1-8), Roundabout Chevron panel (R6-4B), Enhanced Reference Markers, Clearance Markers (W5-52), Mile Markers (D10 series), In Road Object Markers (W5-54) & End of Road Markers (W5-56) shall be mounted at a height of 4'-3" (±).

×× 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.

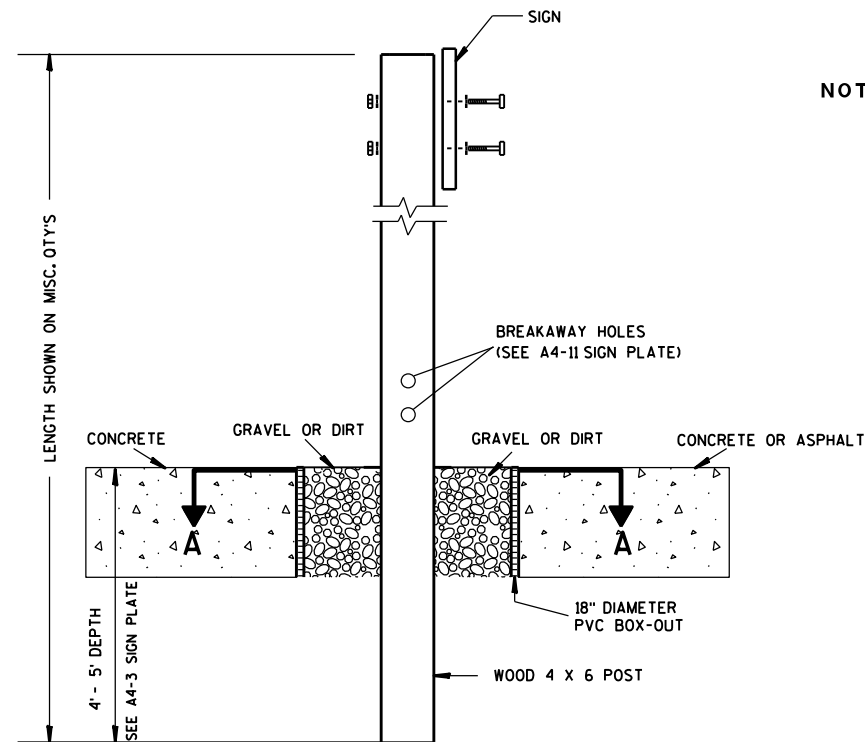
* 6 feet from edge of a paved shoulder or 12 feet from the edge of pavement (edge line location) or 2 feet from outside edge of gravel, whichever is greater unless directed by project engineer.

TYPICAL INSTALLATION
OF PERMANENT TYPE II
SIGNS ON SINGLE POSTS

WISCONSIN DEPT OF TRANSPORTATION

APPROVED *Matthew R. Rauch*
for State Traffic Engineer

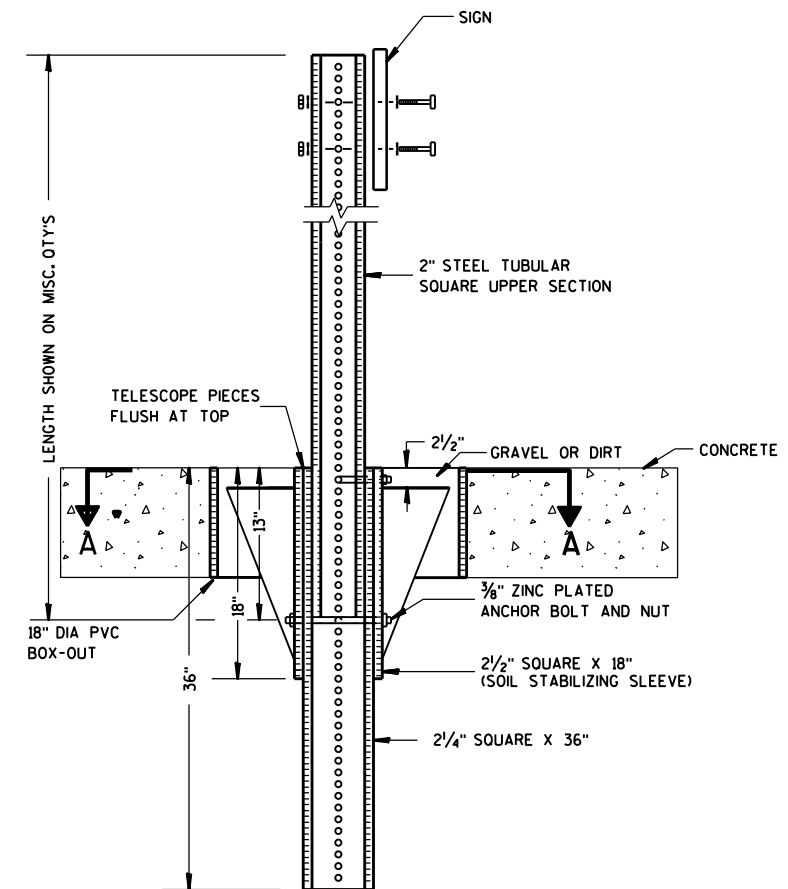
DATE 7/23/15 PLATE NO. A4-3.20



ELEVATION VIEW

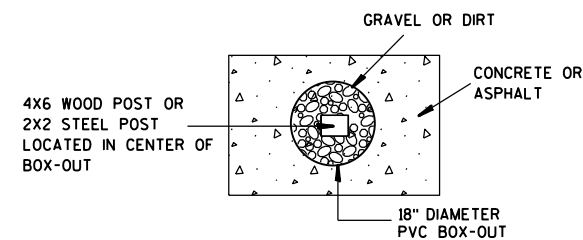
DETAIL OF WOOD 4 X 6 SIGN POST IN BOX-OUT

- 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

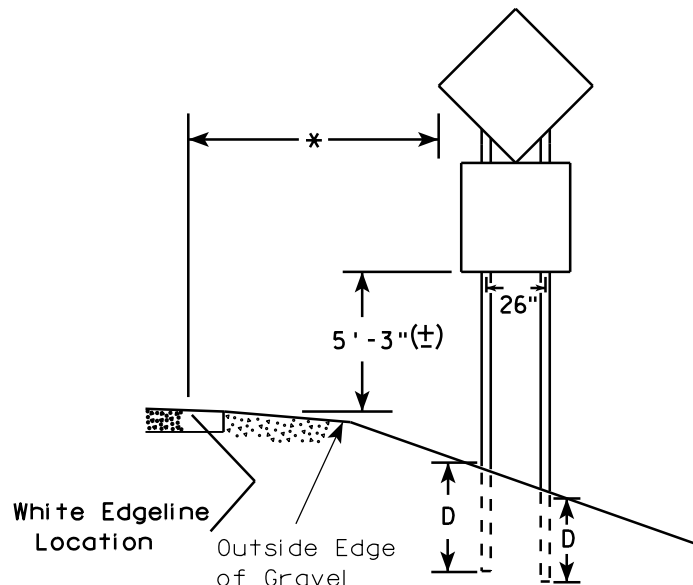
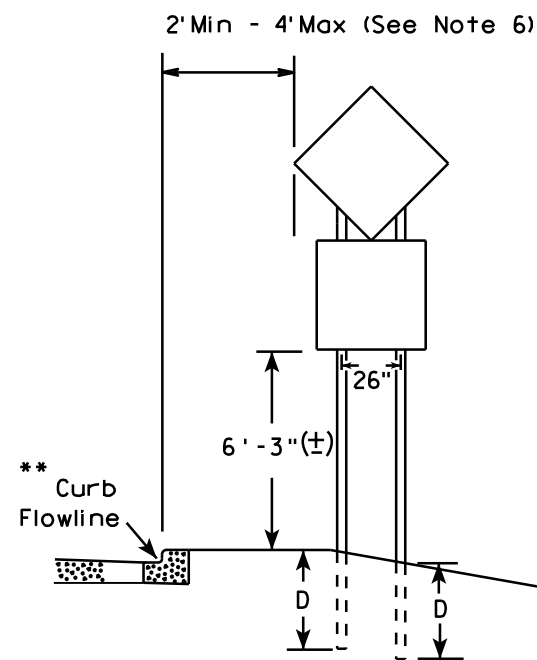
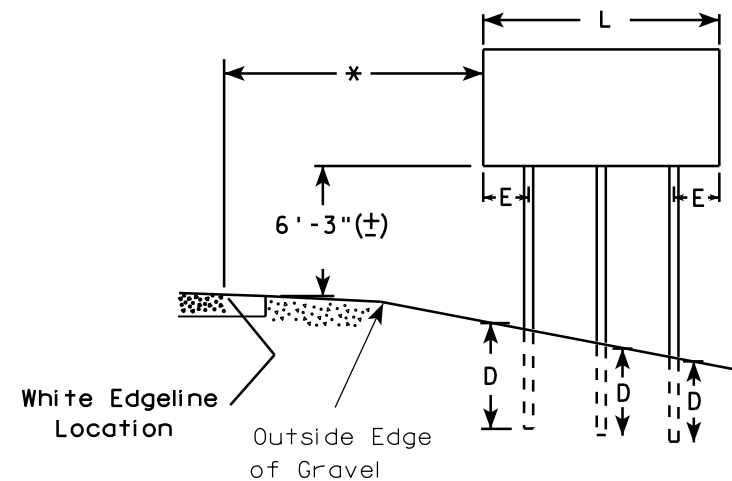
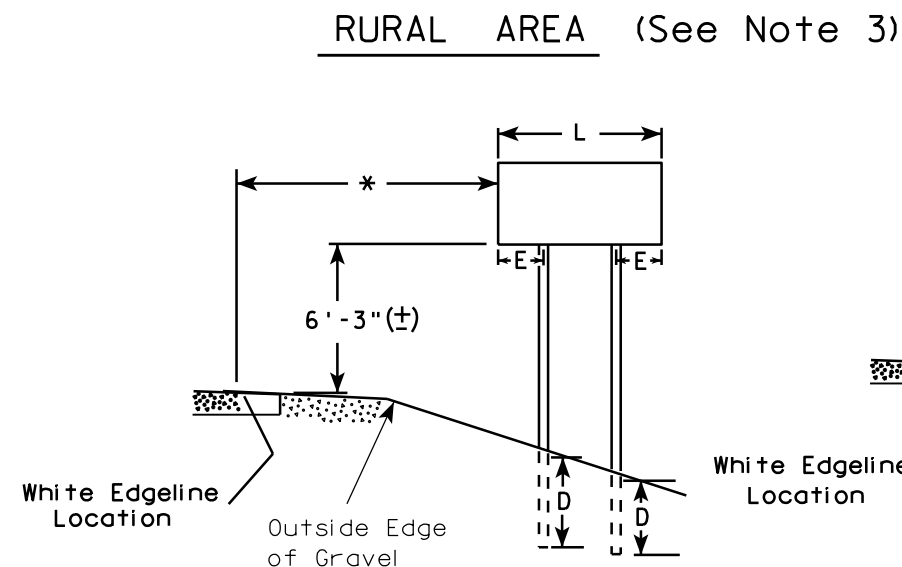
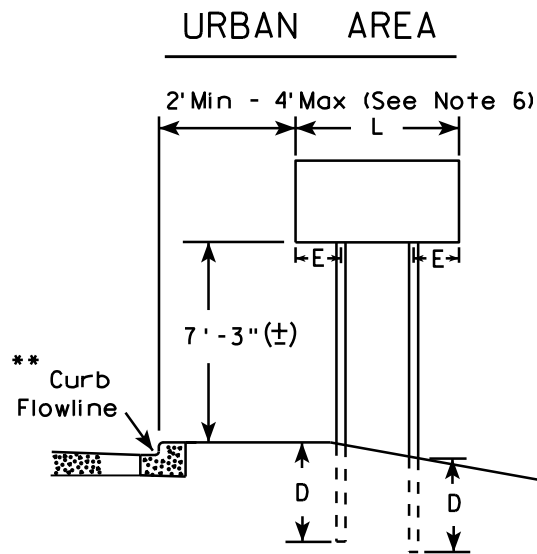
PROJECT NO:

HWY:

COUNTY:

SHEET NO:

E



48" DIAMOND WARNING SIGN

48" DIAMOND WARNING SIGN

- GENERAL NOTES**
1. For 3 or 4 post installations, individual post spacing shall be greater than 3'-6".
 2. See tables below for required number of posts.
 3. For expressways and freeways, mounting height is 7'-3" (±) or 6'-3" (±) depending upon existence of sub-sign.
 4. The (±) tolerance for mounting height is 3 inches.
 5. Minimum mounting height for J assemblies (A2-1S) is 7'-3" (±) or 6'-3" (±) per urban or rural detail respectively.
 6. Offset distance shall be consistent with existing signs or consistent throughout length of project.
 7. Folding signs shall be mounted at a height of 5'-3" (±) or as directed by the engineer.
 8. The Double Arrow sign (W12-1) shall be mounted at a height of 2'-3" (±). The Chevron sign (W1-8), Roundabout Chevron panel (R6-4B), Clearance Markers (W5-52), Mile Markers (D10 series), In Road Object Markers (W5-54) & End of Road Markers (W5-56) shall be mounted at a height of 4'-3" (±).

* 6 feet from edge of a paved shoulder or 12 feet from the edge of pavement (edge line location) or 2 feet from outside edge of gravel, whichever is greater unless directed by project engineer.

** The existence of curb and gutter does not in itself mandate the vertical clearance illustrated. That height is typically measured where there is sidewalk adjacent to the roadway or parking is permitted. In the absence of sidewalk vertical clearance is measured from the top of the curb. Offset of signs is measured from the flow line.

*** See A4-3 sign plate for signs 4' or less in width and less than 20 S.F. in area.

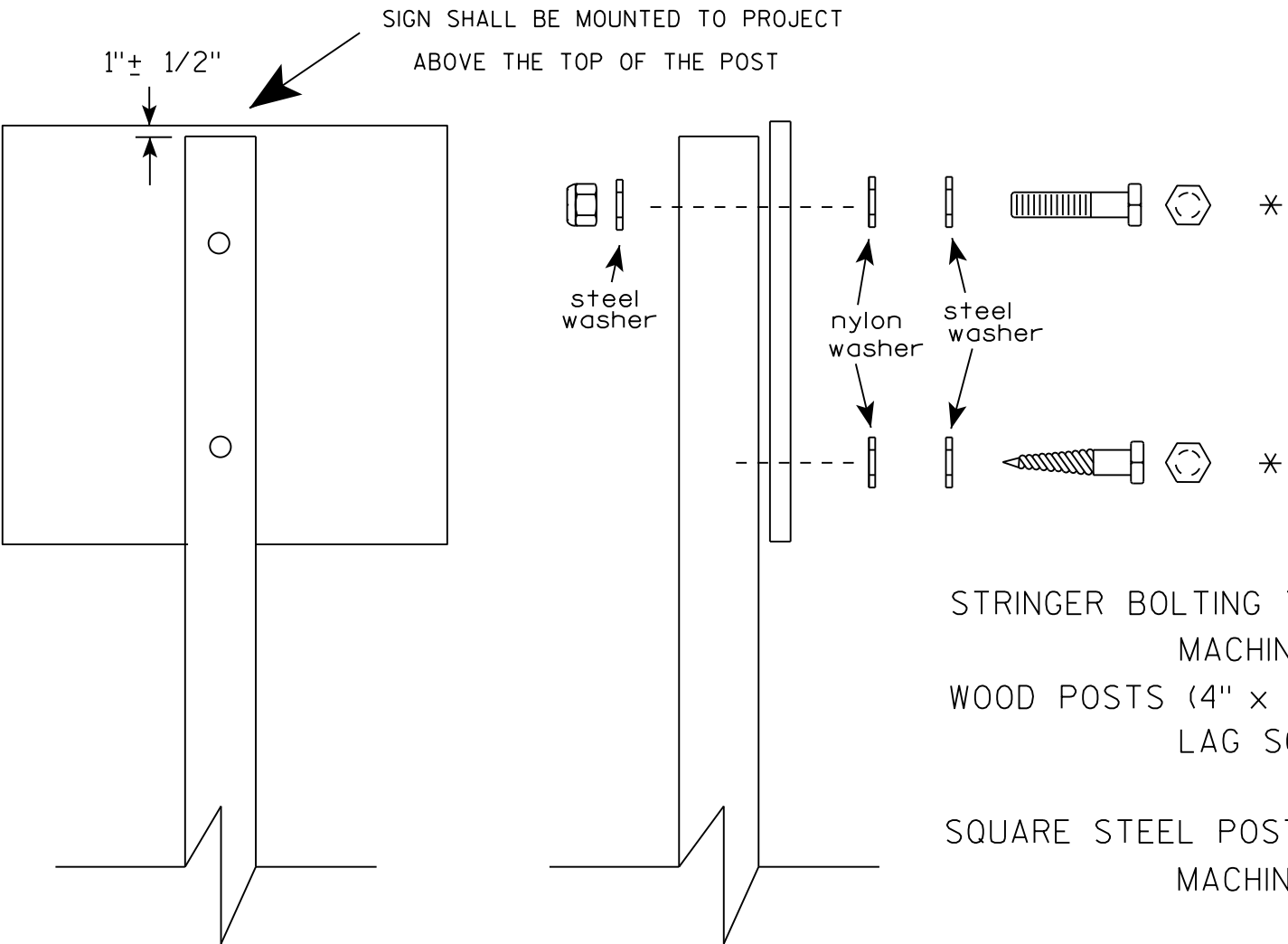
SIGN SHAPE OTHER THAN DIAMOND (TWO POSTS REQUIRED)	
L	E
Greater than 48" Less than 60"	12"
60" to 120"	L/5

SIGN SHAPE OTHER THAN DIAMOND (THREE POSTS REQUIRED)	
L	E
Greater than 120" less than 168"	12"

SIGN SHAPE OTHER THAN DIAMOND (FOUR POSTS REQUIRED)	
L	E
168" and greater	12"

POST EMBEDMENT DEPTH	
Area of Sign Installation (Sq. Ft.)	D (Min)
20 or Less	4'
Greater than 20	5'

TYPICAL INSTALLATION OF TYPE II SIGNS ON MULTIPLE POSTS	
WISCONSIN DEPT OF TRANSPORTATION	
APPROVED	<i>Matthew R. Rauch</i> for State Traffic Engineer
DATE 7/23/15	PLATE NO. A4-4.14



Nuts, bolts and lags used for mounting signs shall have hexagonal heads and shall be either :

- a. Hot dip galvanized in accordance with ASTM Designation: A 153, Class D, or SC 3
- b. Electro-galvanized in accordance with ASTM Designation : B 633, TYPE III, SC 3.

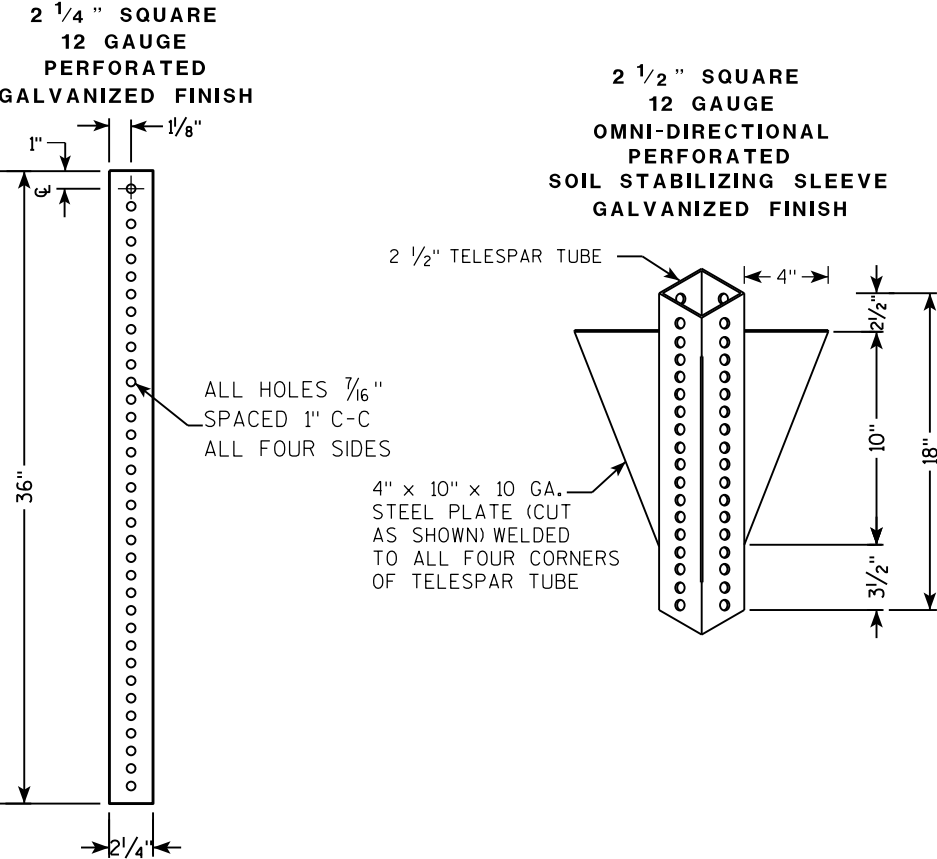
Threads on bolts and nuts shall be manufactured with sufficient allowance for the cadmium plate or galvanized coating to permit the nuts to run freely on the bolts.

- STRINGER BOLTING TO ALUMINUM SIGNS (SEE SIGN PLATE A4-18)
- MACHINE BOLTS - 5/16" X 1-3/4" Length w/ lock nuts
- WOOD POSTS (4" x 4" or 4" x 6")
- LAG SCREWS - 3/8" X 3" (NO STRINGERS ON BACK OF SIGN)
 - 3/8" X 4" (STRINGERS ON BACK OF SIGN)
- SQUARE STEEL POSTS (2" x 2")
- MACHINE BOLTS - 3/8" X 3-1/4" Length w/ nuts (NO STRINGER ON BACK OF SIGN)
 - 3/8" X 5" Length w/ nuts (STRINGERS ON BACK OF SIGN)
- RIVETS - 9/32" (6605-9-6) BULB-TITE, TRI-FOLD, ALUMINUM BODY/MANDREL
- O.D. FLANGE .720-.765 INCH, GRIP RANGE .042-.375 INCH
- WASHERS (ALL POSTS) -
- 1-1/4" O.D. X 3/8" I.D. X 1/16" STEEL
 - 1-1/4" O.D. X 3/8" I.D. X .080 NYLON

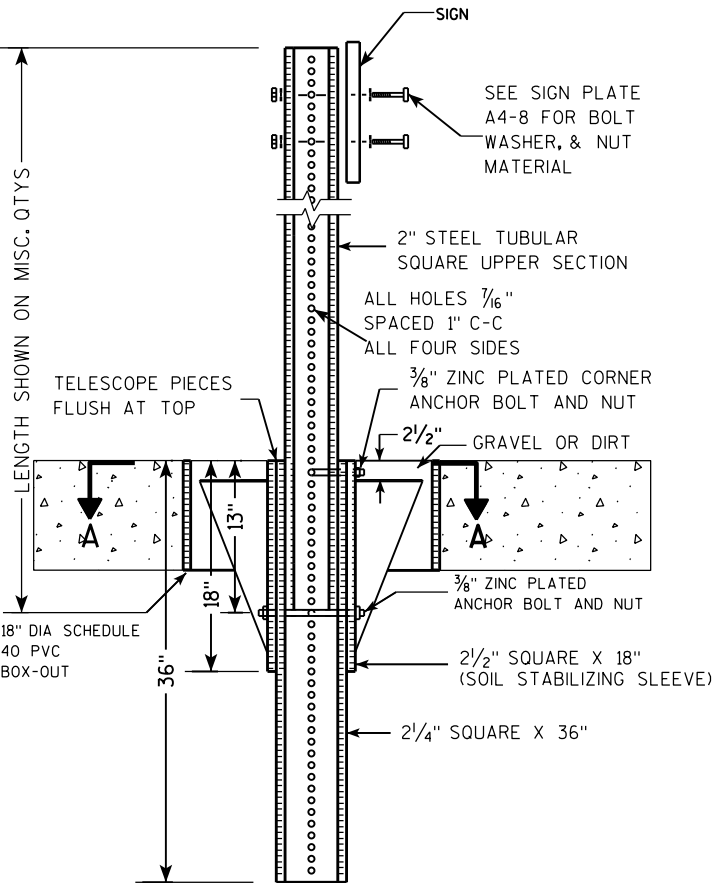
* Two different fastening systems are shown for illustration purposes. On any individual sign, either one or the other system shall be used. Actual number of fasteners per sign varies with the sign area, but normally there are two. For a single post installation, all signs greater than 9 sq. ft. require the use of 3 fasteners.

ATTACHMENT OF SIGNS TO POSTS	
WISCONSIN DEPT OF TRANSPORTATION	
APPROVED	<i>Matthew R. Rauch</i> For State Traffic Engineer
DATE 8/11/16	PLATE NO. A4-8.8

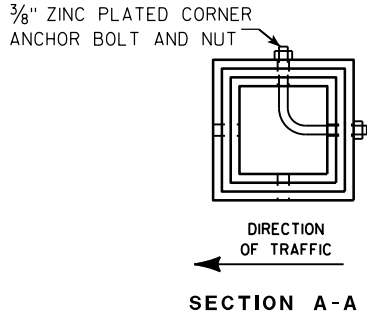
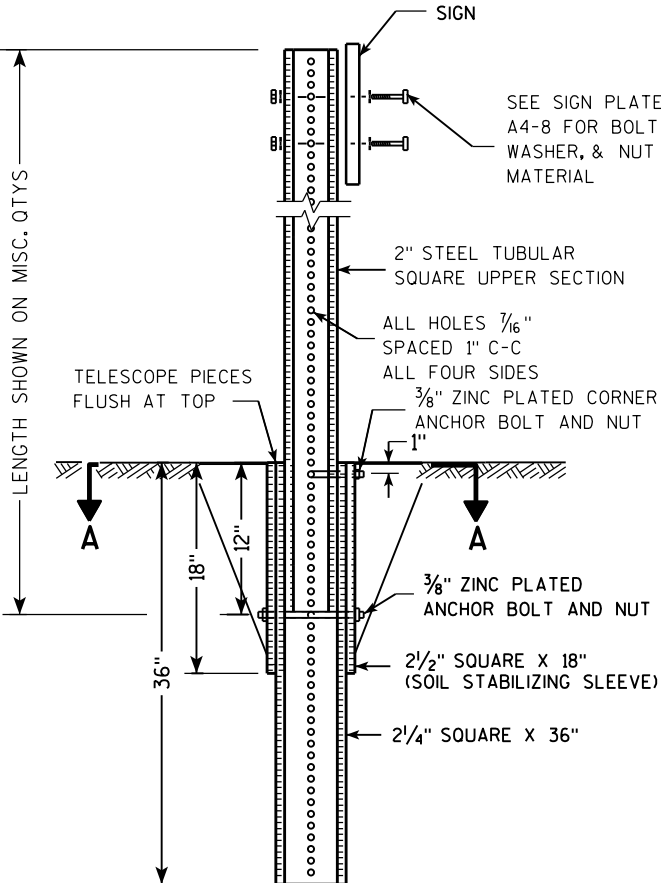
TELESCOPIC TUBING ANCHORS
TWO PIECE SYSTEM



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)



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).

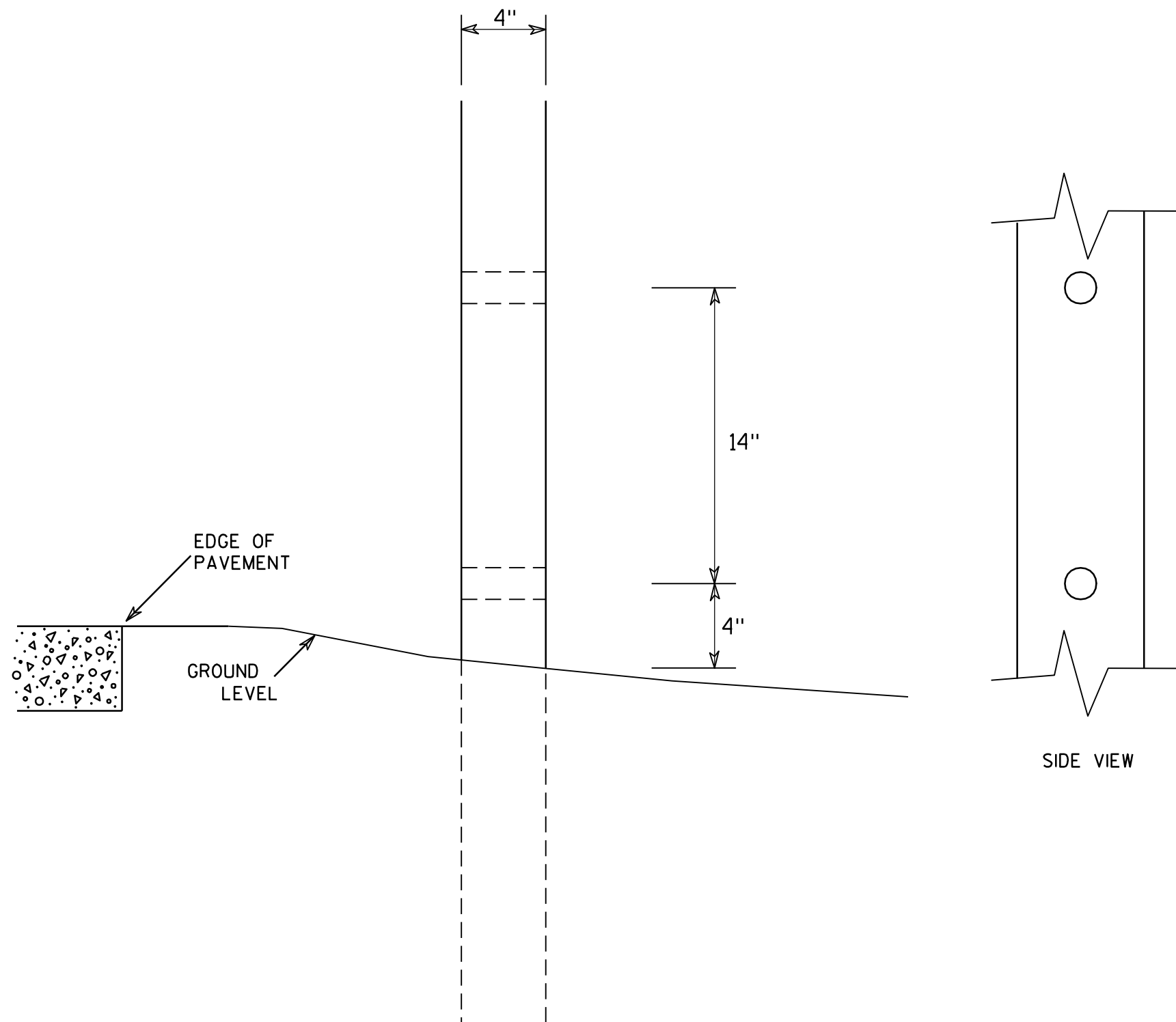
TUBULAR STEEL
SIGN POST
A4-9

WISCONSIN DEPT OF TRANSPORTATION

APPROVED *Matthew R. Rauch*
for State Traffic Engineer

DATE 2/05/15 PLATE NO. A4-9.9

7

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

**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

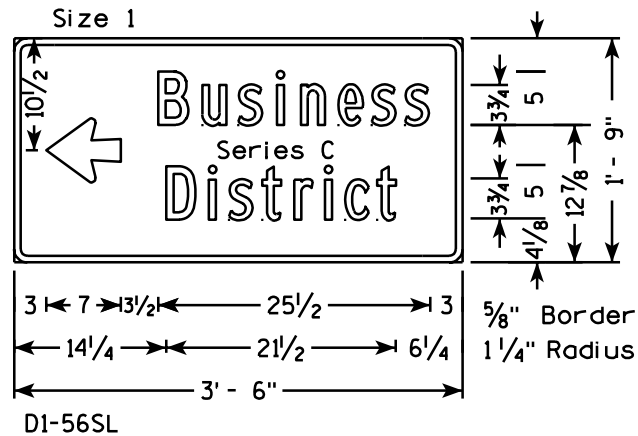
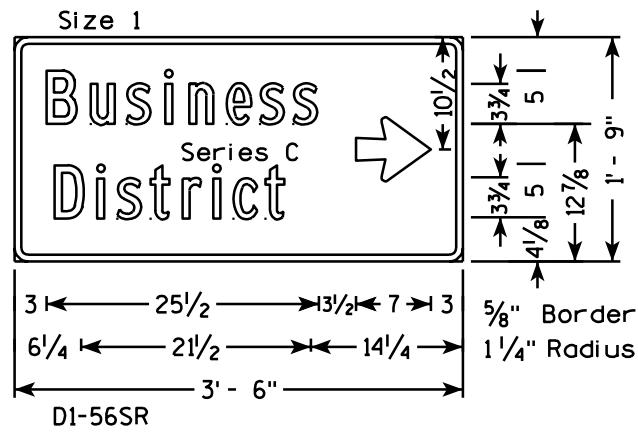
PROJECT NO:

HWY:

COUNTY:

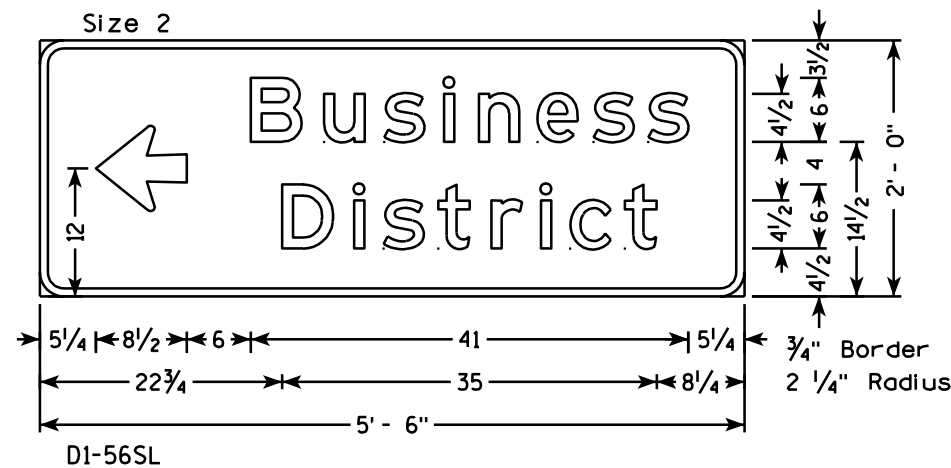
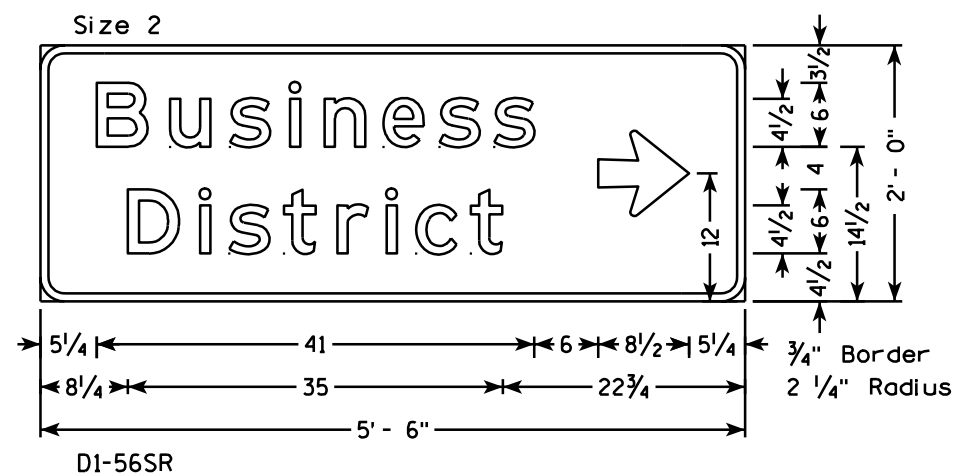
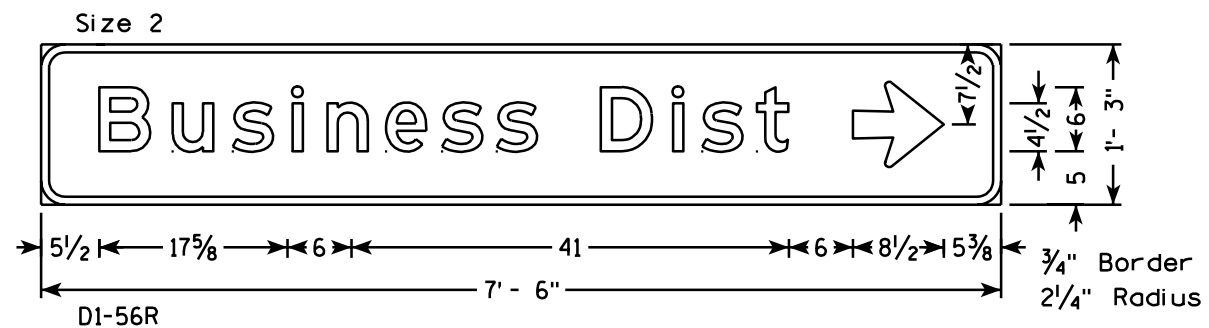
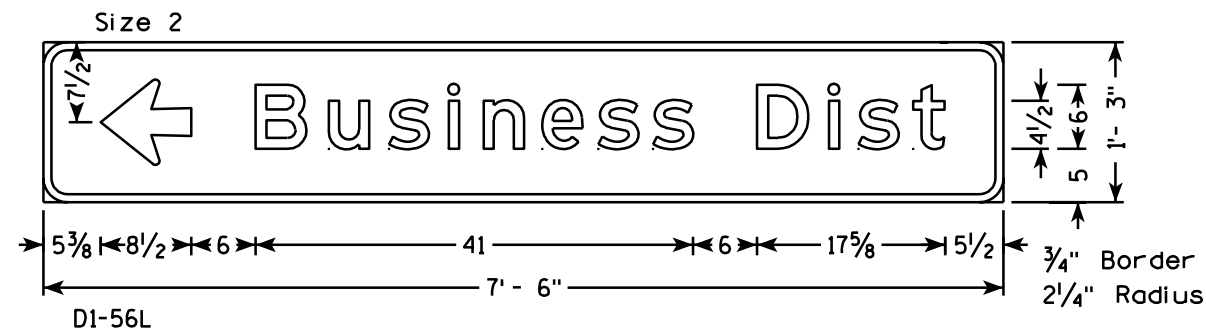
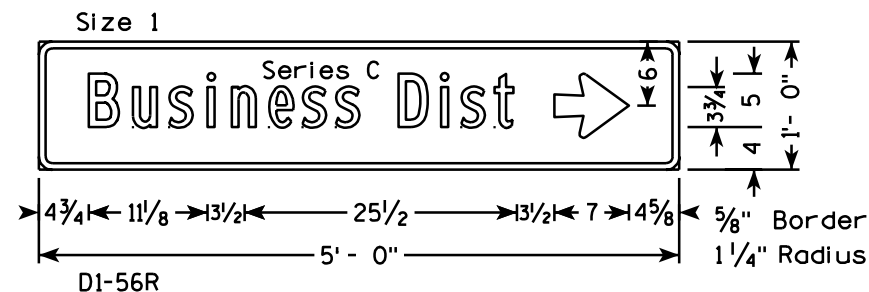
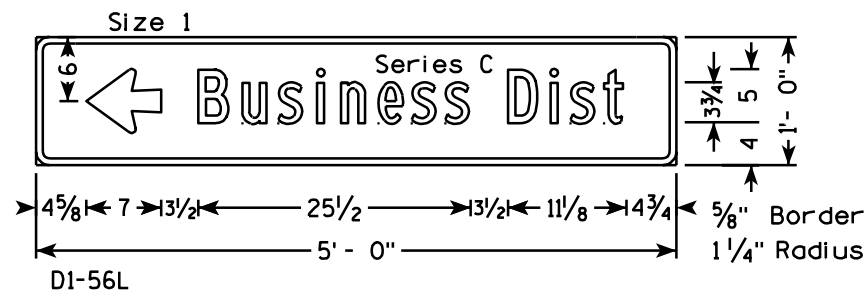
SHEET NO:

E



NOTES

1. Sign is Type II - Type H Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
Background - Green
Message - White
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.



TYPICAL STANDARD
D1-56L & R

WISCONSIN DEPT OF TRANSPORTATION

APPROVED *Matthew R. Rauch*
for State Traffic Engineer

DATE 11/19/08 PLATE NO. D1-56.1

PROJECT NO:

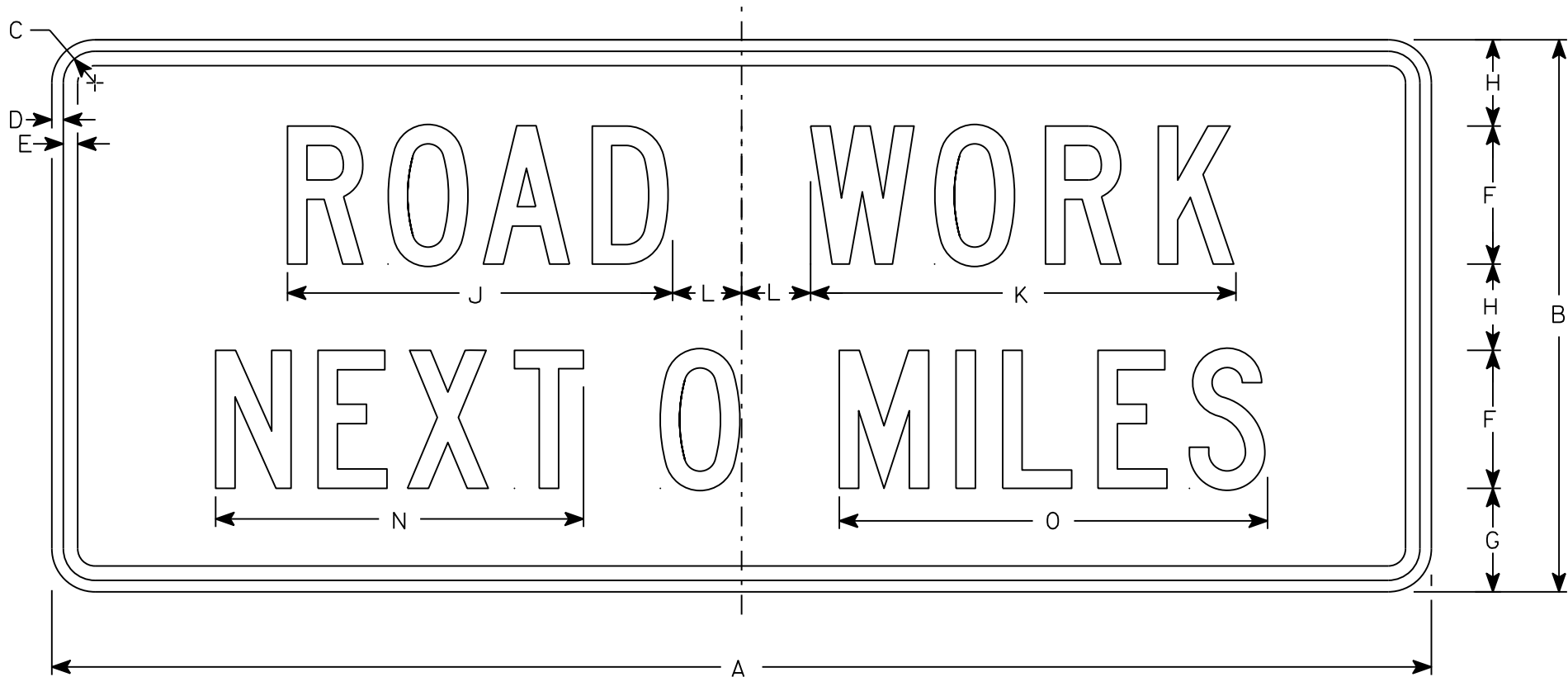
HWY:

COUNTY:

SHEET NO:

E

7



G20-1

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. Round distance to nearest whole Mile and substitute appropriate numerals and optically adjust spacing to achieve proper balance

7

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	60	24	1 3⁄8	1⁄2	5⁄8	6	4 1⁄2	3 3⁄4		16 3⁄4	18 1⁄2	3		16	18 5⁄8												10
3																											
4	60	24	1 3⁄8	1⁄2	5⁄8	6	4 1⁄2	3 3⁄4		16 3⁄4	18 1⁄2	3		16	18 5⁄8												10
5																											

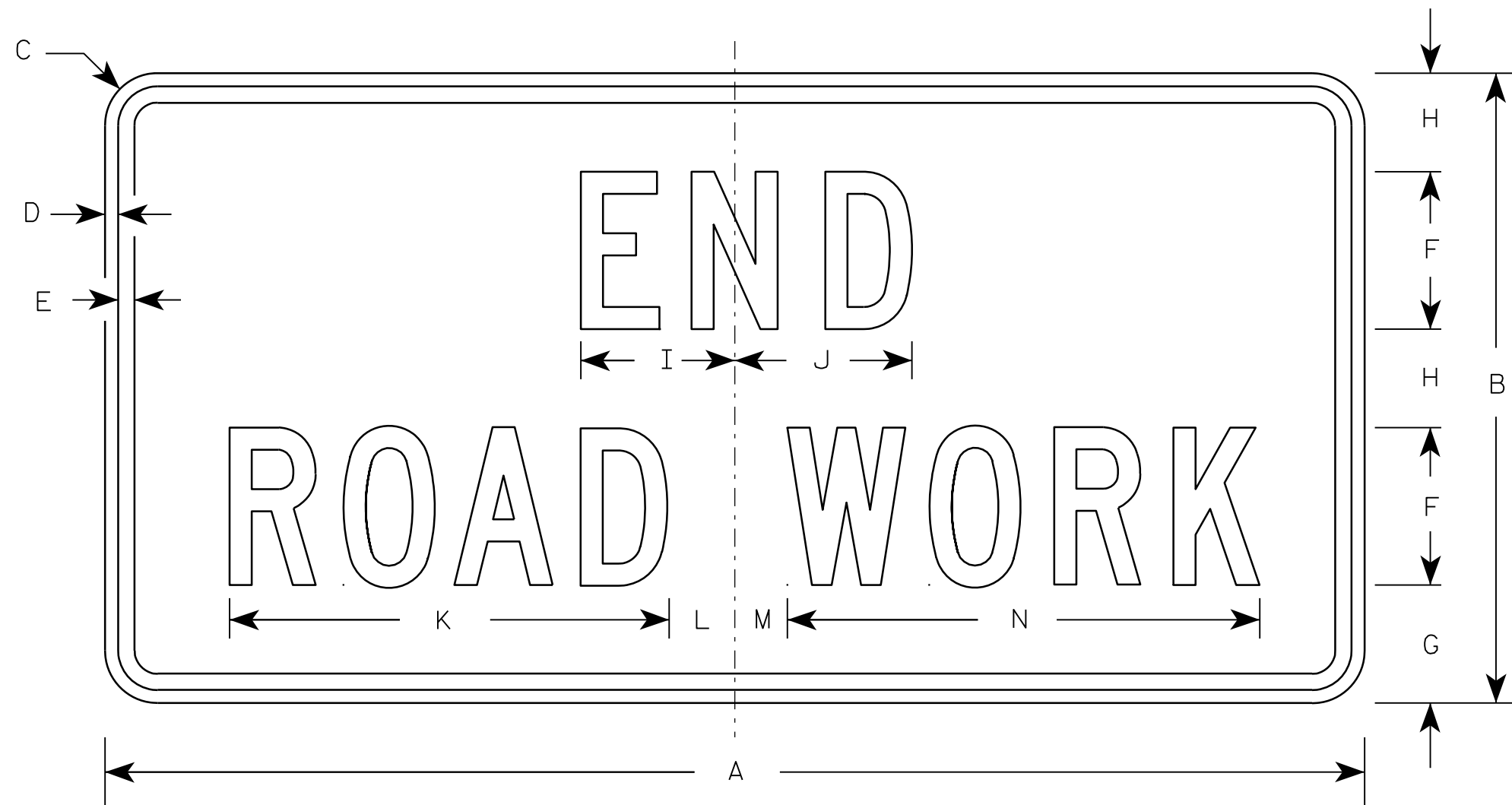
STANDARD SIGN
G20-1

WISCONSIN DEPT OF TRANSPORTATION

APPROVED *Matthew R. Rauch*
For State Traffic Engineer

DATE 3/14/17 PLATE NO. G20-1.8

7



G20-2A

NOTES

1. Sign is Type II - Type F Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
Background - Orange
Message - Black
3. Message Series - C
4. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.

Metric equivalent
for this sign is:

SIZE	
1	900 mm X 450 mm
2	1200 mm X 600 mm
3	1200 mm X 600 mm
4	1200 mm X 600 mm
5	1200 mm X 600 mm

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.	Area m ²
1	36	18	1 1/8	3/8	1/2	4	3 3/4	2 1/2	4 1/8	4 1/8	11 1/8	2	1	12 1/8													4.5	0.41
2	48	24	1 1/2	1/2	5/8	6	4 1/2	3 3/4	5 7/8	6 3/4	16 3/4	2 1/2	1 3/4	18 1/2													8.0	0.72
3	48	24	1 1/2	1/2	5/8	6	4 1/2	3 3/4	5 7/8	6 3/4	16 3/4	2 1/2	1 3/4	18 1/2													8.0	0.72
4	48	24	1 1/2	1/2	5/8	6	4 1/2	3 3/4	5 7/8	6 3/4	16 3/4	2 1/2	1 3/4	18 1/2													8.0	0.72
5	48	24	1 1/2	1/2	5/8	6	4 1/2	3 3/4	5 7/8	6 3/4	16 3/4	2 1/2	1 3/4	18 1/2													8.0	0.72

STANDARD SIGN

G20-2A

WISCONSIN DEPT OF TRANSPORTATION

APPROVED *Matthew R. Rauch*
for State Traffic Engineer

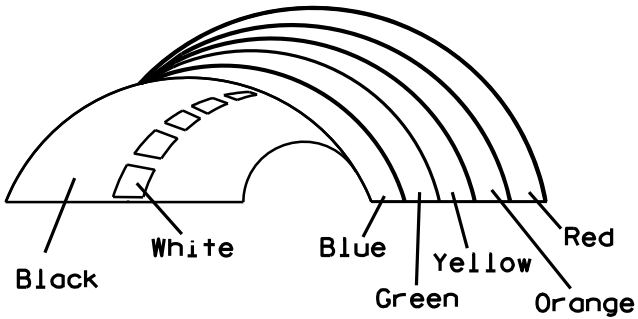
DATE 9/30/09 PLATE NO. G20-2A.8

7



* VARIES

Background Colors of Symbol*



*1/4" Black Border between each color of rainbow and border of rainbow

NOTES

1. Sign is Type II - Type H Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
Background - White
Message - (See Note 5)
3. Message Series - (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. Border - Blue
Line 1 - Red
Line 2 - Black
Line 3-5 - Blue
6. Line 1 - Dutch 8011L
Line 2 - Series E
Line 3-5 - Series C
7. Contractor shall provide and install a new post bracket in accordance with the I55-56B sign 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																											
2	30	36	1 1/2	1/2	5/8	3	2	3 1/2	2 7/8	1	8	2 1/8	11 1/4	11 1/8	9 3/8	1 1/4		3/4	12 5/8	7 1/2							7.5
3																											
4																											
5																											

PROJECT NO:

HWY:

COUNTY:

SHEET NO:

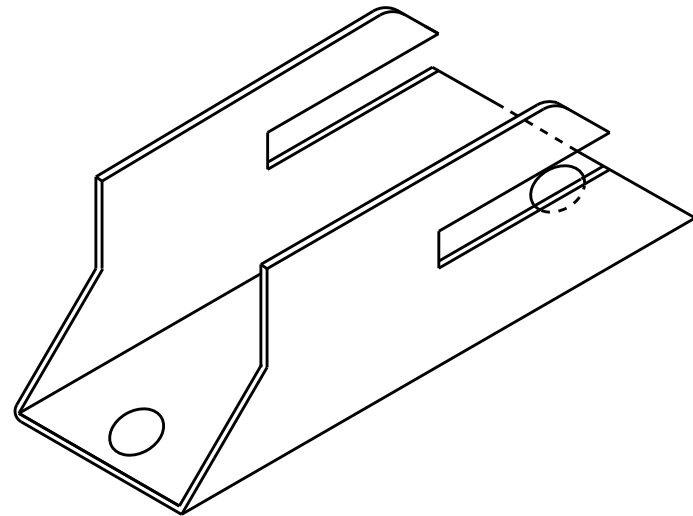
STANDARD SIGN
I55-56

WISCONSIN DEPT OF TRANSPORTATION

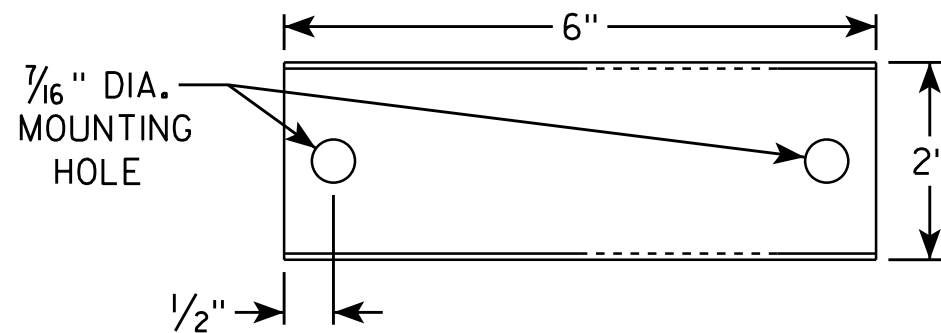
APPROVED *Matthew R. Rauch*
For State Traffic Engineer

DATE 4/27/11 PLATE NO. I55-56.3

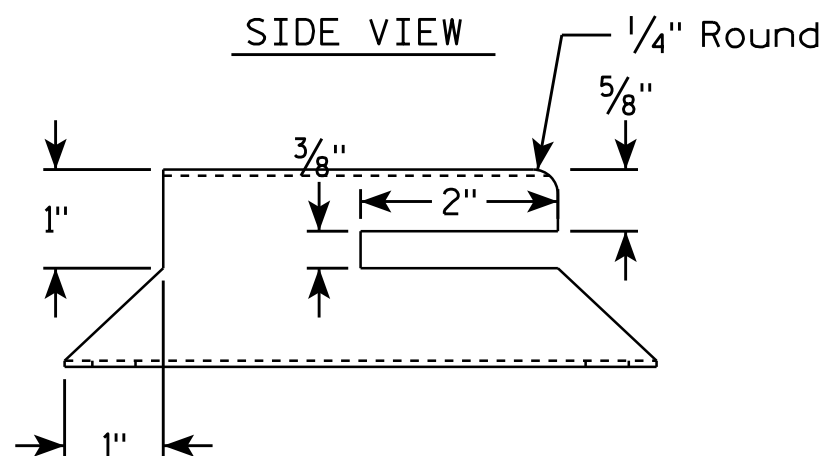
ISOMETRIC VIEW



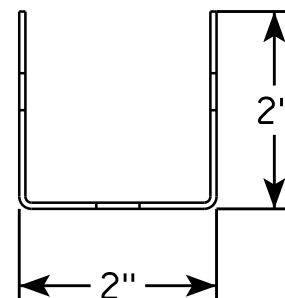
TOP VIEW



SIDE VIEW



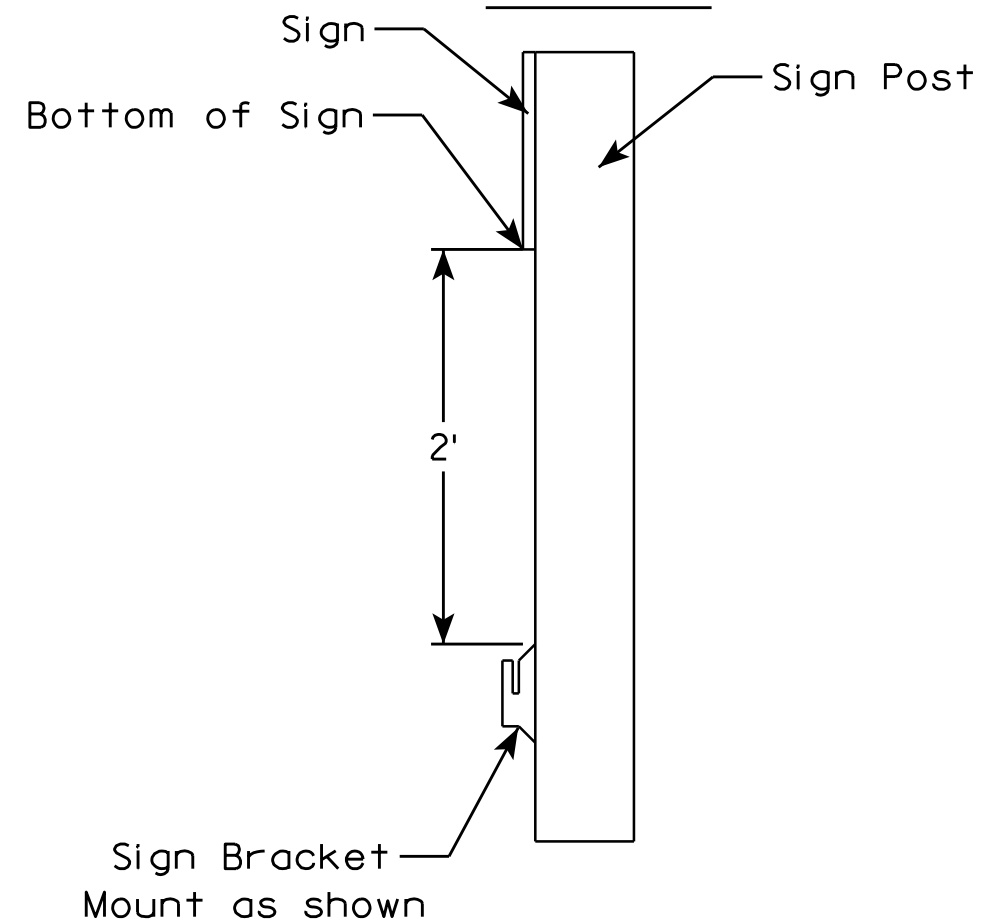
END VIEW



NOTES

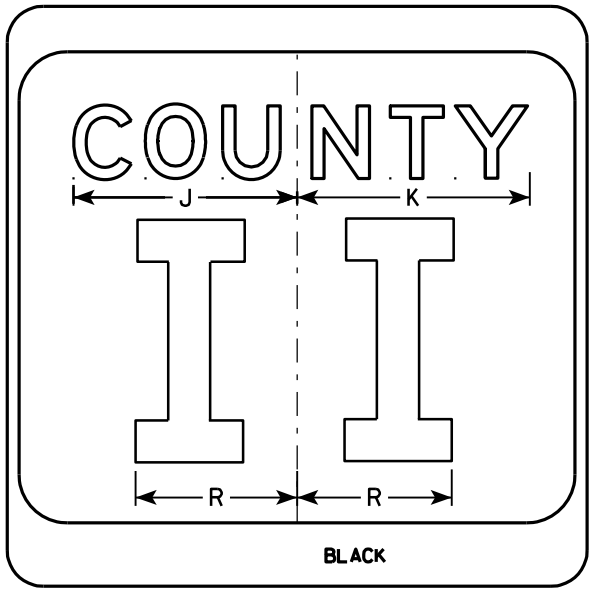
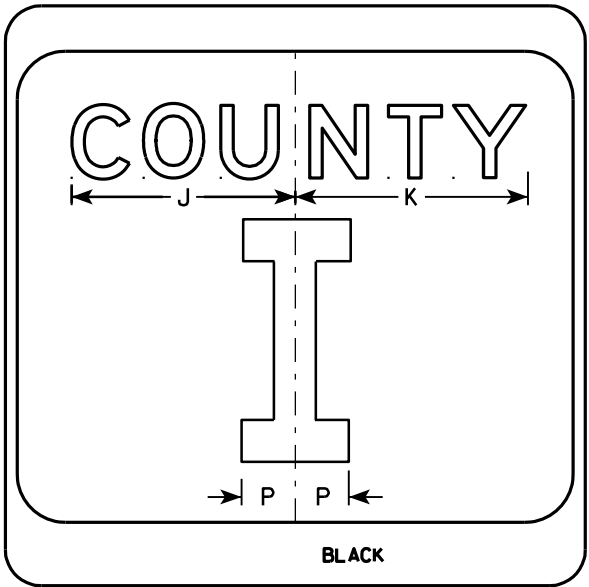
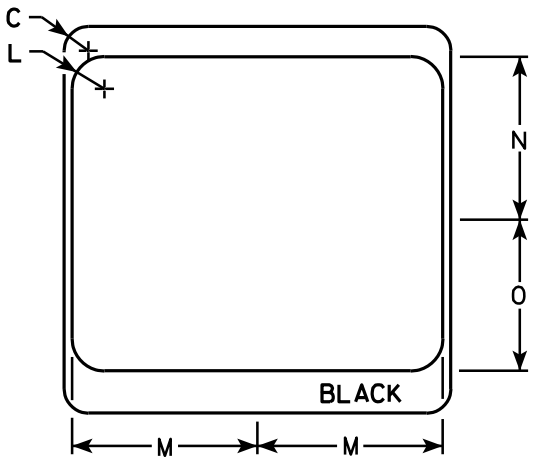
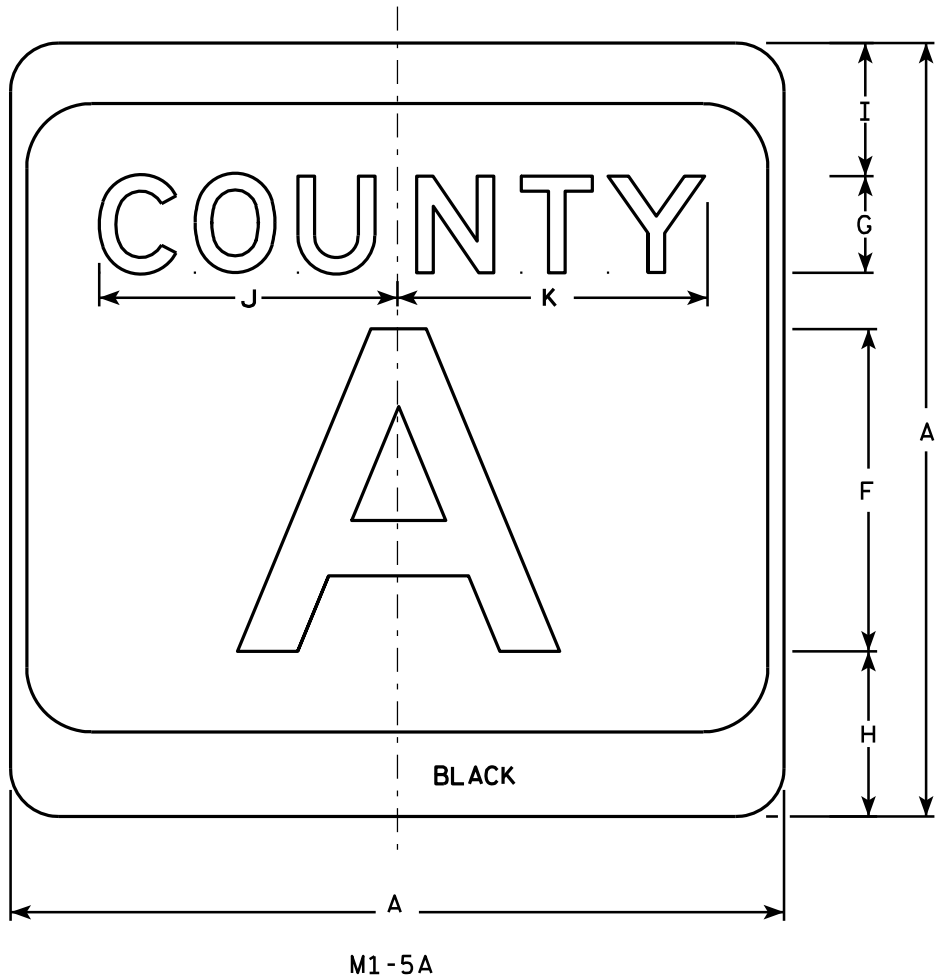
1. Must be capable of permanent attachment to a wood or steel channel sign post utilizing the fastening hardware specified on the A4-8 sign plate.
2. Shall be entirely primed and painted with two coats of a black powder coated enamel paint.
3. Shall be made with 12 gauge steel, and incorporate no welds, no hinged components, no threaded lock-type components, and no parts which are loose or can be separated from the main body.
4. Shall have rounded edges with at least 1/8" radii.
5. Shall not have unrounded and uncoated metal edges which can contact the back surface of the roll-up sign.
6. Top of bracket shall be mounted 2' below the bottom of the I55-56 sign.
7. Cost of bracket and fastening hardware shall be incidental to the I55-56 sign.

SIDE VIEW



ROLLUP SIGN BRACKET I55-56B	
WISCONSIN DEPT OF TRANSPORTATION	
APPROVED	<i>Matthew R. Rauch</i> for State Traffic Engineer
DATE 4/26/16	PLATE NO. I55-56B.2

7



NOTES

- Sign is Type II - see Note 7 - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
- Color:
Background - White & Black - See Note 7
Message - Black
- Message Series - see Note 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.
- Message Series E for 1 letter.
Message Series D for 2 letters unless message is too big then Series C.
Message Series C for 3 letters unless message is too big then Series B.
- Substitute appropriate letters & optically center to achieve proper balance.
- Permanent Signs
Background - Type H Reflective
Detour or temporary Signs
Background - Reflective

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1																											
2	24		1 1/2			10	3	5 1/8	4 1/8	9 1/4	9 5/8	2	11 1/2	10 1/8	9 3/8	2 1/4		6 5/8									4.0
3	36		2 1/4			16	4	7 5/8	5 5/8	12 1/4	12 7/8	3	17 1/8	15 1/4	14	3 3/8		10									9.0
4	36		2 1/4			16	4	7 5/8	5 5/8	12 1/4	12 7/8	3	17 1/8	15 1/4	14	3 3/8		10									9.0
5	36		2 1/4			16	4	7 5/8	5 5/8	12 1/4	12 7/8	3	17 1/8	15 1/4	14	3 3/8		10									9.0

CTH MARKER

M1-5A FOR ASSEMBLIES

WISCONSIN DEPT OF TRANSPORTATION

APPROVED *Matthew R. Rauch*
For State Traffic Engineer

DATE 9/27/11 PLATE NO. M1-5A.8

PROJECT NO:

HWY:

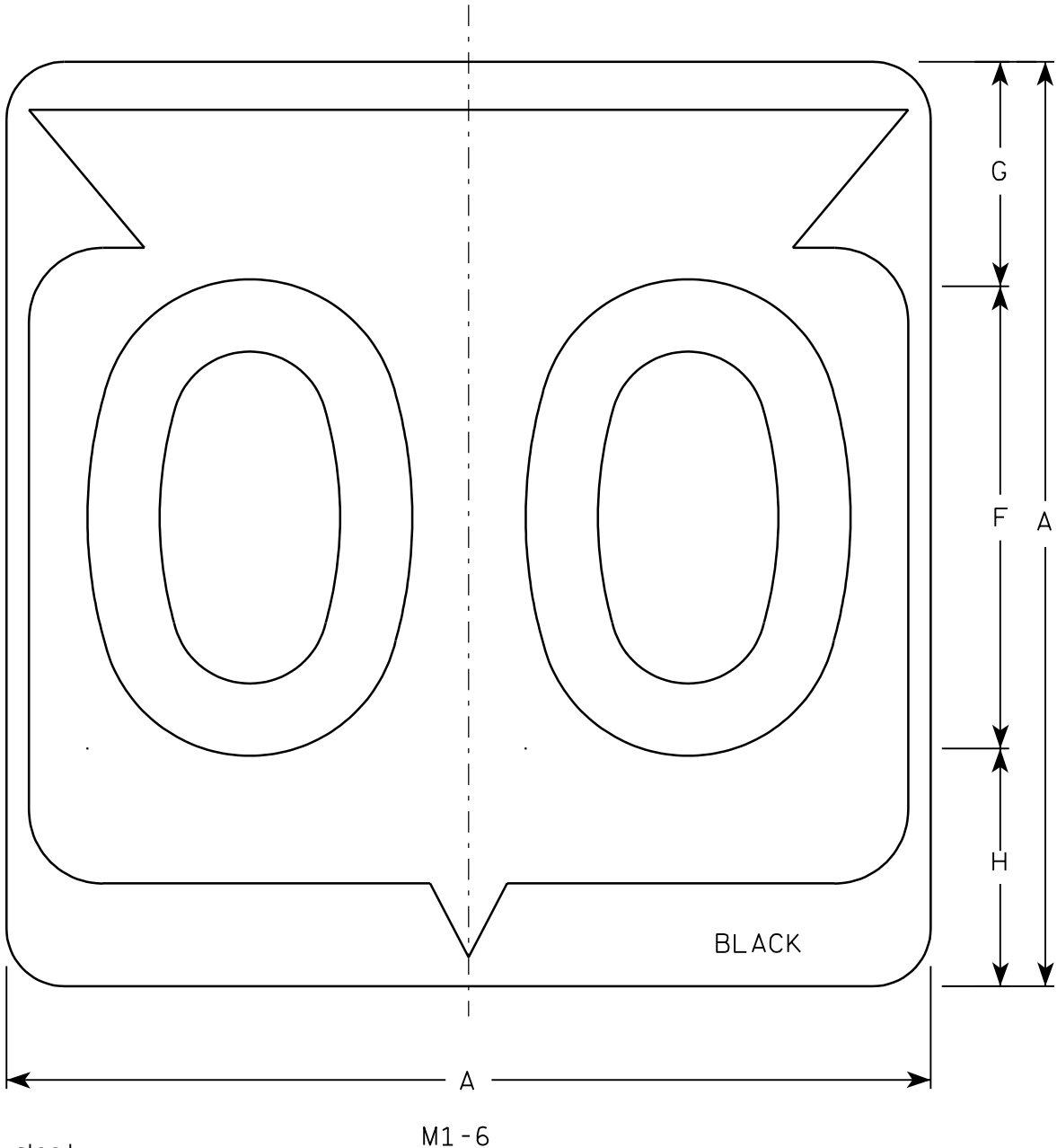
COUNTY:

SHEET NO:

E

7

7



Metric equivalent
for this sign is:

SIZE	
1	
2	600 mm X 600 mm
3	900 mm X 900 mm
4	900 mm X 900 mm
5	900 mm X 900 mm

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.	Area m ²
1																												
2	24		1 1/2			12	5 1/2	6 1/2	10 1/4	2 1/2	8 7/8	11 1/2	1	1 7/8	11 1/4	21 7/8											4.0	.36
3	36		2 1/4			18	8 3/4	9 1/4	15 3/8	5 3/8	12 5/8	17 1/8	1 1/2	2 7/8	16 7/8	33											9.0	.81
4	36		2 1/4			18	8 3/4	9 1/4	15 3/8	5 3/8	12 5/8	17 1/8	1 1/2	2 7/8	16 7/8	33											9.0	.81
5	36		2 1/4			18	8 3/4	9 1/4	15 3/8	5 3/8	12 5/8	17 1/8	1 1/2	2 7/8	16 7/8	33											9.0	.81

PROJECT NO:

HWY:

COUNTY:

SHEET NO:

E

FILE NAME : C:\Users\Projects\tr_stdp\late\M16.DGN

PLOT DATE : 13-OCT-2005 14:55

PLOT BY : DITJPH

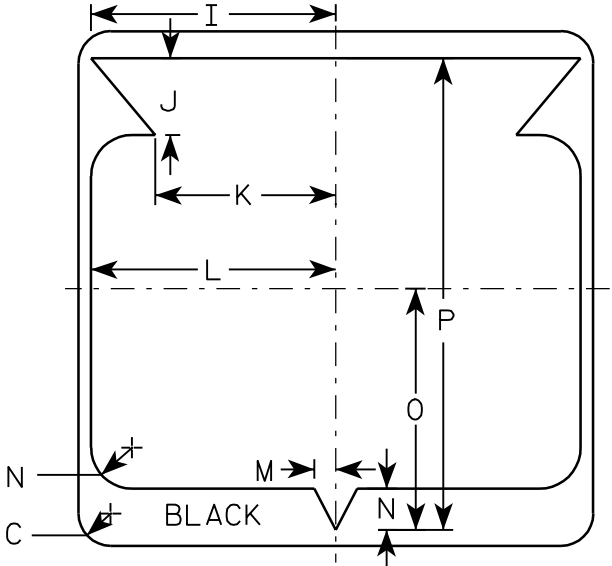
PLOT NAME :

PLOT SCALE : 6.715871:1.000000

WISDOT/CADDS SHEET 42

NOTES

1. Sign is Type II - See Note 6 - reference
WIS DOT Standard Specification for HIGHWAY
and STRUCTURE CONSTRUCTION latest edition.
2. Color:
Background - White & Black - See Note 6
Message - Black
3. Message Series - See note 5
4. Corners may be square or rounded when base
material is plywood but borders shall be rounded
as shown. When base material is metal, the
corners and borders shall be rounded.
5. Substitute appropriate Series numerals and
adjust spacing as per plate A10-1.
6. Permanent Signs
Background - Type H Reflective
Detour or temporary Signs
Background - Reflective



STATE ROUTE MARKER
M1-6 FOR ASSEMBLIES

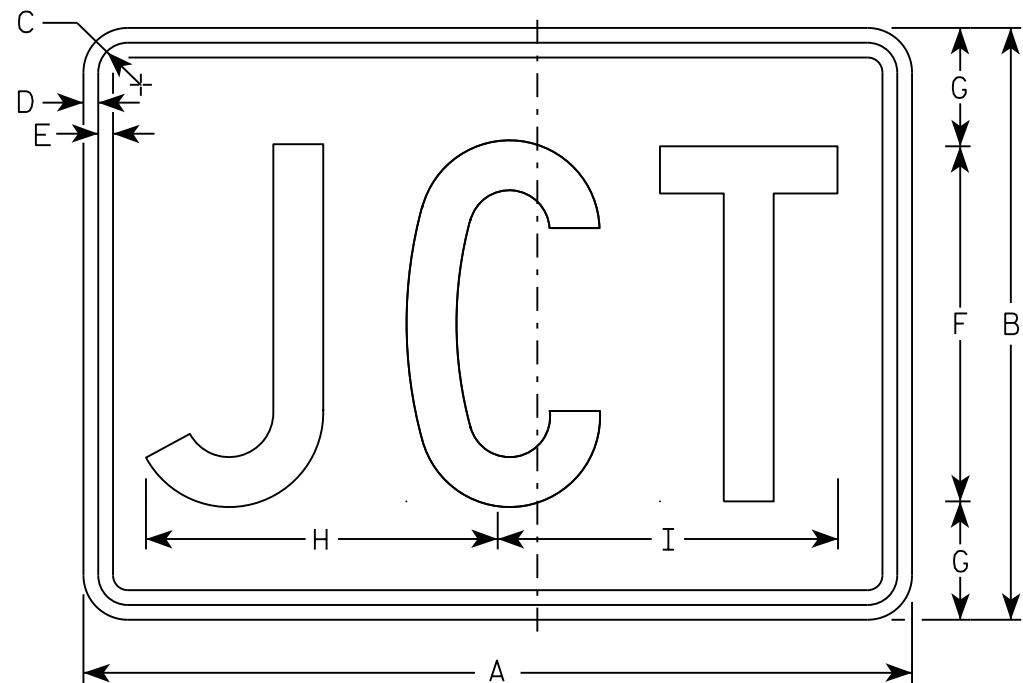
WISCONSIN DEPT OF TRANSPORTATION

APPROVED

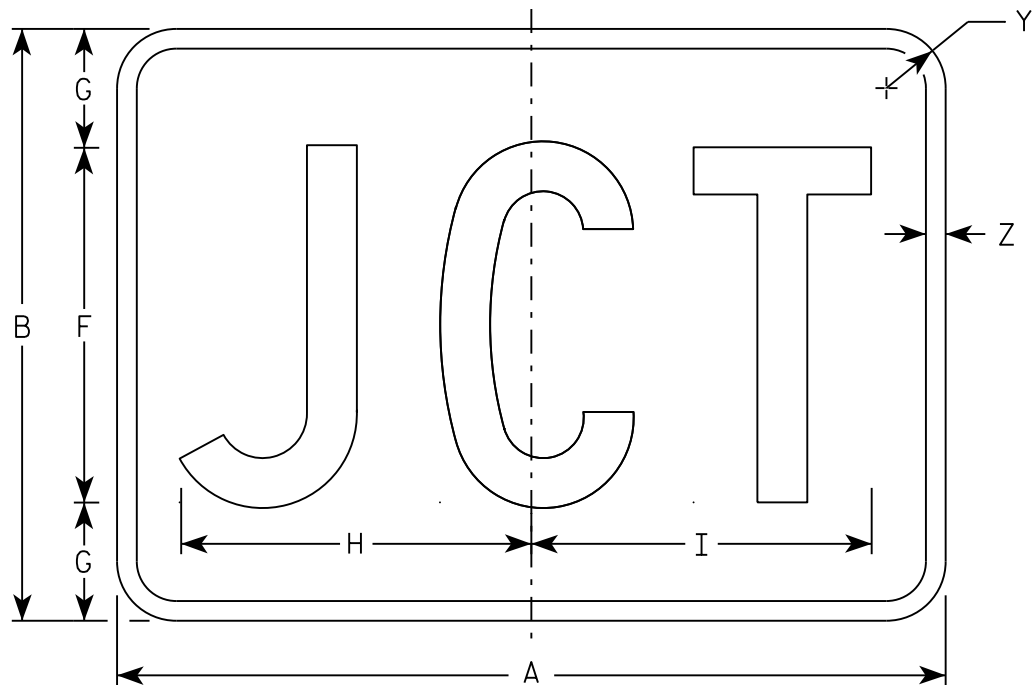
Chester J. Spang
for State Traffic Engineer

DATE 3/20/02

PLATE NO. M1-6.9



M2-1
MM2-1
MP2-1



MB2-1
MK2-1
MN2-1
MR2-1

NOTES

- 1. Sign is Type II - Type H
- 2. Color:
 - Background - See note 5
 - Message - See note 5
- 3. Message Series - C
- 4. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.
- 5. M2-1 Background - White
 Message - Black
 MB2-1 Background - Blue
 Message - White
 MK2-1 Background - Green
 Message - White
 MM2-1 Background - White
 Message - Green
 MN2-1 Background - Brown
 Message - White
 MP2-1 Background - White
 Message - Blue
 MR2-1 Background - Brown
 Message - Yellow

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1																											
2	21	15	1 1/8	3/8	3/8	9	3	8 7/8	8 5/8																1 1/2	1/2	2.20
3	30	21	1 1/8	3/8	3/8	13	4	12 7/8	12 3/8																1 1/2	1/2	4.40
4	30	21	1 1/8	3/8	3/8	13	4	12 7/8	12 3/8																1 1/2	1/2	4.40
5	30	21	1 1/8	3/8	3/8	13	4	12 7/8	12 3/8																1 1/2	1/2	4.40

STANDARD SIGN

M2 - 1

WISCONSIN DEPT OF TRANSPORTATION

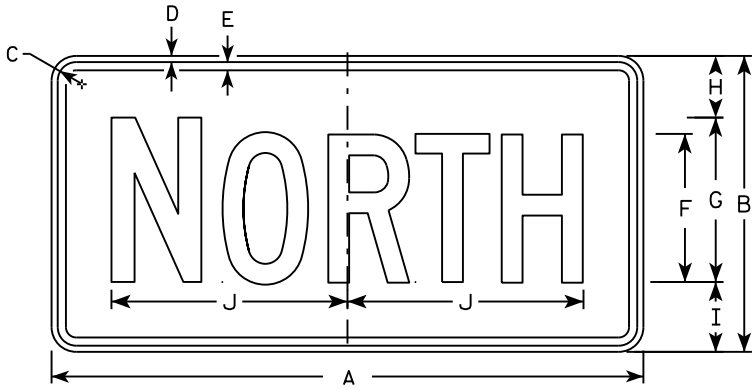
APPROVED

Matthew R. Rauch

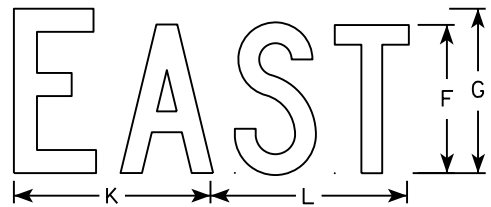
For State Traffic Engineer

DATE 10/15/15

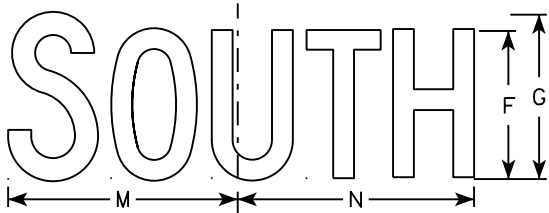
PLATE NO. M2-1.12



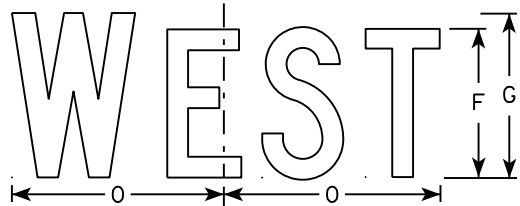
M3-1
MM3-1
MP3-1



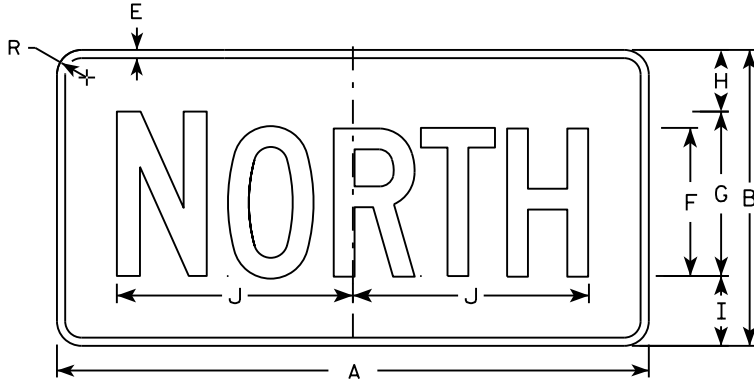
M3-2
MM3-2
MP3-2



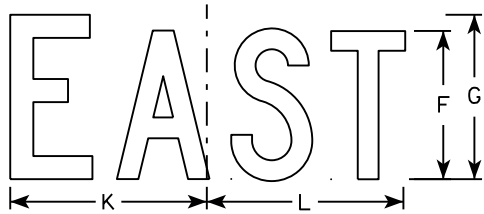
M3-3
MM3-3
MP3-3



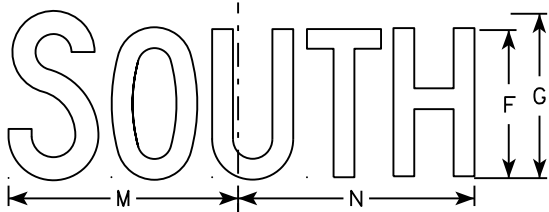
M3-4
MM3-4
MP3-4



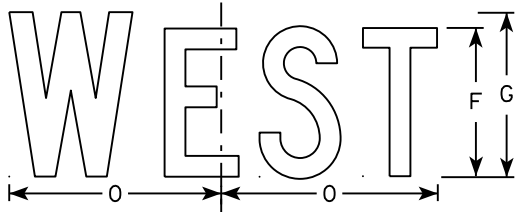
MB3-1
MK3-1
MN3-1



MB3-2
MK3-2
MN3-2



MB3-3
MK3-3
MN3-3



MB3-4
MK3-4
MN3-4

NOTES

1. All Signs Type II - Type H
2. Color:
Background - See note 5
Message - See note 5
3. Message Series - C
4. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.
5. M3-1 thru M3-4 Background - White
Message - Black
MB3-1 thru MB3-4 Background - Blue
Message - White
MK3-1 thru MK3-4 Background - Green
Message - White
MM3-1 thru MM3-4 Background - White
Message - Green
MN3-1 thru MN3-4 Background - Brown
Message - White
MP3-1 thru MP3-4 Background - White
Message - Blue
6. Note the first letter of each direction is larger than the remainder of the message.

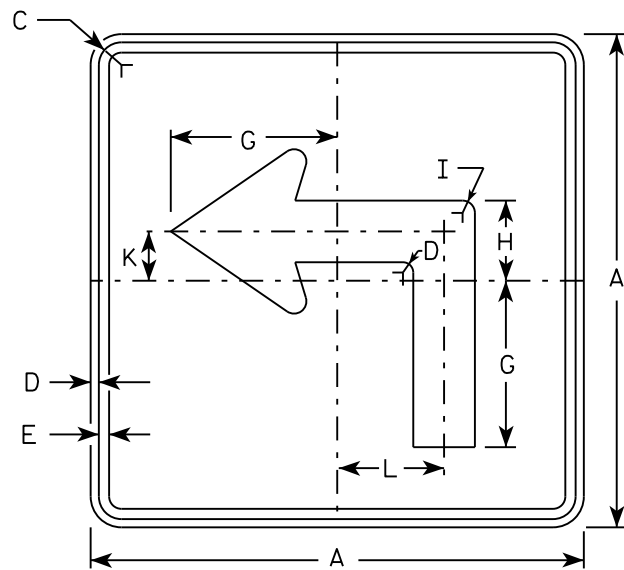
SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1																											
2	24	12	1 1/8	3/8	3/8	6	7	2 1/4	2 3/4	10 1/4	7 7/8	8 3/8	10 1/4	9 3/4	8 3/4			1 1/2									2.00
3	36	18	1 1/8	3/8	1/2	9	10	3 3/4	4 1/4	14 3/8	12	12 1/8	14	14 1/8	13			1 1/2									4.5
4	36	18	1 1/8	3/8	1/2	9	10	3 3/4	4 1/4	14 3/8	12	12 1/8	14	14 1/8	13			1 1/2									4.5
5	36	18	1 1/8	3/8	1/2	9	10	3 3/4	4 1/4	14 3/8	12	12 1/8	14	14 1/8	13			1 1/2									4.5

STANDARD SIGNS
M3-1 thru M3-4
SERIES

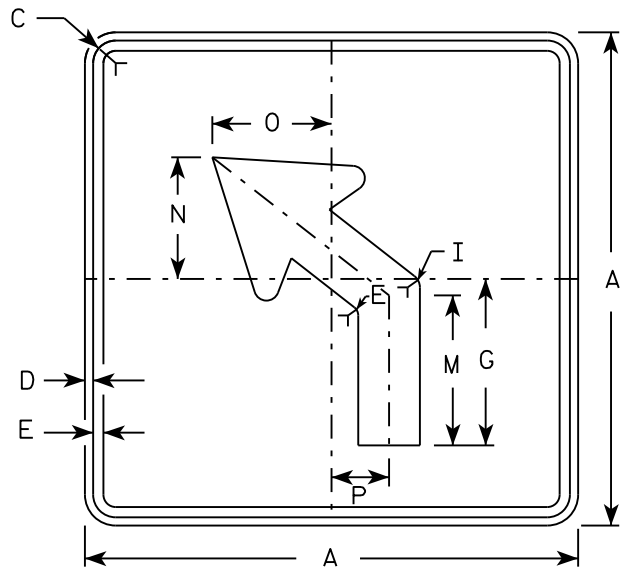
WISCONSIN DEPT OF TRANSPORTATION

APPROVED
Matthew R. Rauch
for State Traffic Engineer

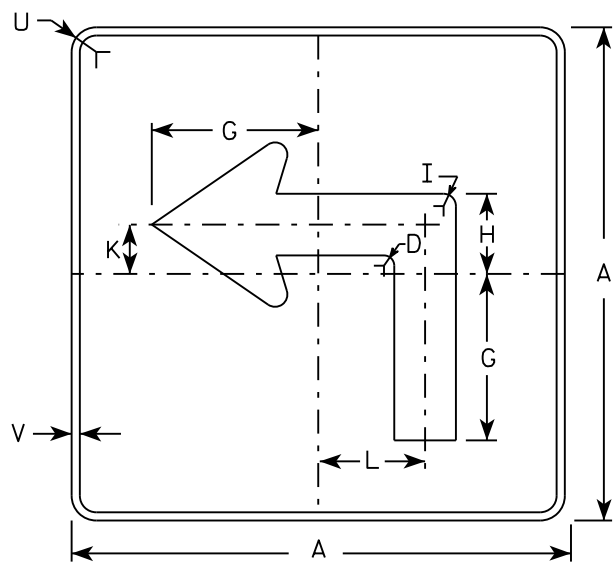
DATE 10/15/15 PLATE NO. M3-1.14



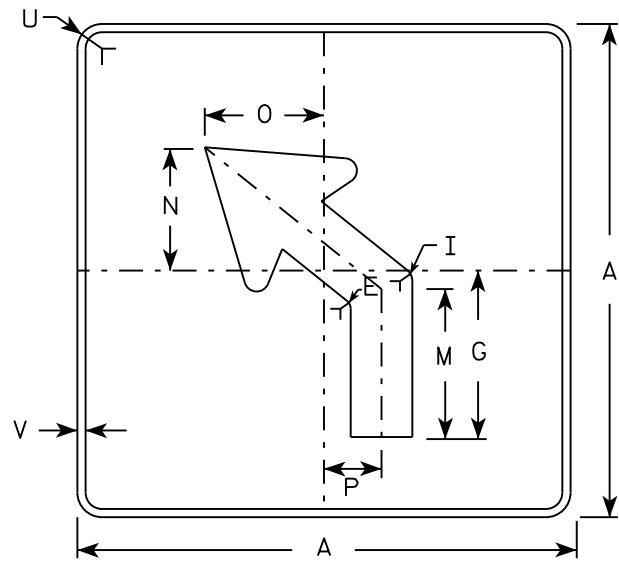
M5-1L
MM5-1L
M05-1L
MP5-1L



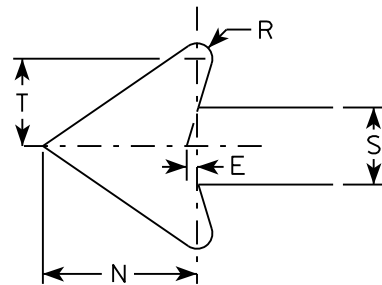
M5-2L
MM5-2L
M05-2L
MP5-2L



MB5-1L
MK5-1L
MN5-1L
MR5-1L



MB5-2L
MK5-2L
MN5-2L
MR5-2L



NOTES

- Signs are Type II - Type H reflective except as shown
- Color:
Background - See note 4
Message - See note 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.
- | | |
|-----------------|---|
| 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 |
| M05-1 and M05-2 | Background - Orange - Type F Reflective |
| | Message - Black |
| MP5-1 and MP5-2 | Background - White - Type H Reflective |
| | Message - Blue |
| MR5-1 and MR5-2 | Background - Brown |
| | Message - Yellow |
- M5-1R same as M5-1L except arrow points right.
- M5-2R same as M5-2L except arrow tilts right.

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1																											
2	21		1 1/8	3/8	3/8		7	3 3/8	5/8		2 1/8	4 1/2	6 3/8	5 1/4	5	2 1/2		1/2	2 5/8	3	1 1/2	1/2					3.06
3	30		1 3/8	1/2	5/8		10 1/8	4 7/8	7/8		3	6 1/2	9 1/8	7 1/2	7 1/4	3 1/2		3/4	3 3/4	4 1/4	1 7/8	1/2					6.25
4	30		1 3/8	1/2	5/8		10 1/8	4 7/8	7/8		3	6 1/2	9 1/8	7 1/2	7 1/4	3 1/2		3/4	3 3/4	4 1/4	1 7/8	1/2					6.25
5	30		1 3/8	1/2	5/8		10 1/8	4 7/8	7/8		3	6 1/2	9 1/8	7 1/2	7 1/4	3 1/2		3/4	3 3/4	4 1/4	1 7/8	1/2					6.25

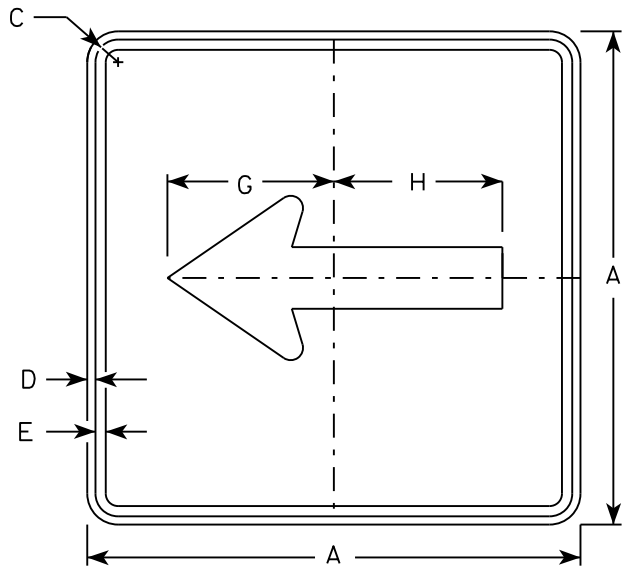
STANDARD SIGN

M5-1 & M5-2

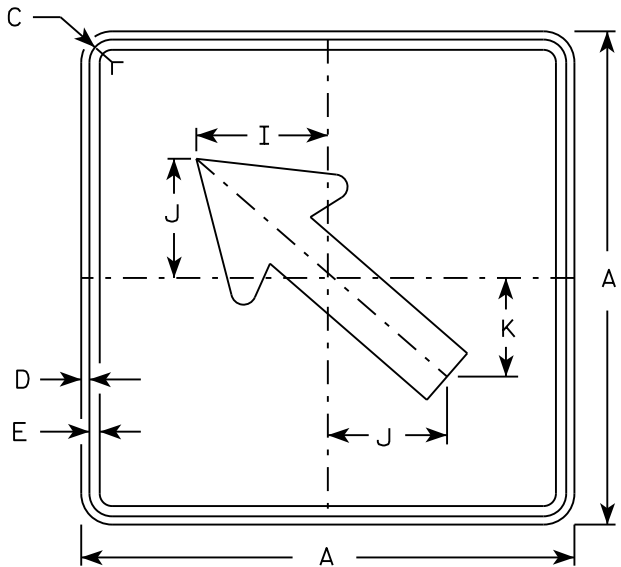
WISCONSIN DEPT OF TRANSPORTATION

APPROVED *Matthew R. Rauch*
for State Traffic Engineer

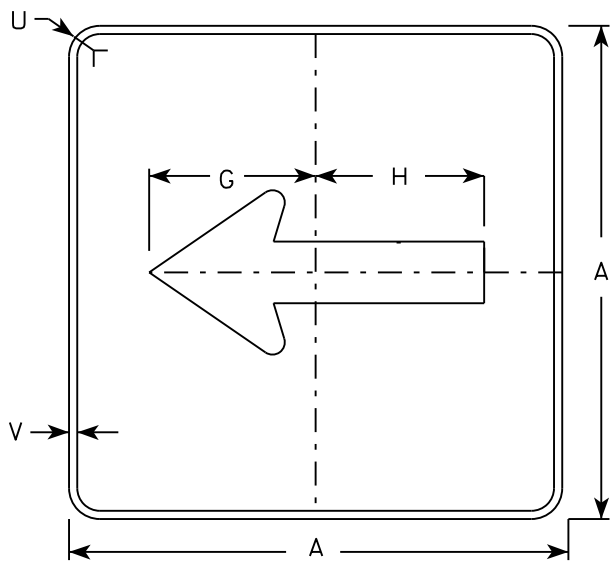
DATE 10/15/15 PLATE NO. M5-1.13



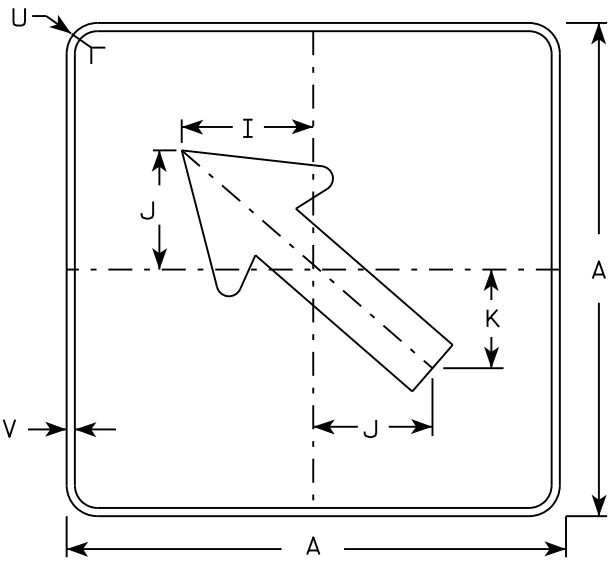
M6 - 1
MM6 - 1
M06 - 1
MP6 - 1



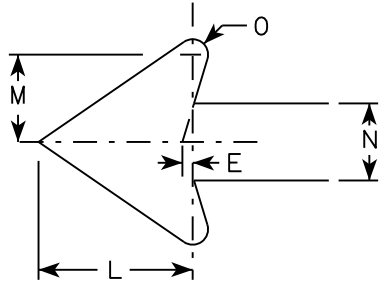
M6 - 2
MM6 - 2
M06 - 2
MP6 - 2



MB6 - 1
MK6 - 1
MN6 - 1
MR6 - 1



MB6 - 2
MK6 - 2
MN6 - 2
MR6 - 2



NOTES

- Signs are Type II - Type H except as Shown
- Color:
Background - See note 4
Message - See note 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.
- 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
M06-1 and M06-2 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

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1																											
2	21		1 1/8	3/8	3/8		7 1/2	7 1/8	5 5/8	5	4 1/4	5 1/4	3	2 5/8	1/2						1 1/2	1/2					3.06
3	30		1 3/8	1/2	5/8		10 3/4	10 1/4	8	7 1/4	6	7 1/2	4 1/4	3 3/4	3/4						1 7/8	1/2					6.25
4	30		1 3/8	1/2	5/8		10 3/4	10 1/4	8	7 1/4	6	7 1/2	4 1/4	3 3/4	3/4						1 7/8	1/2					6.25
5	30		1 3/8	1/2	5/8		10 3/4	10 1/4	8	7 1/4	6	7 1/2	4 1/4	3 3/4	3/4						1 7/8	1/2					6.25

PROJECT NO:

HWY:

COUNTY:

SHEET NO:

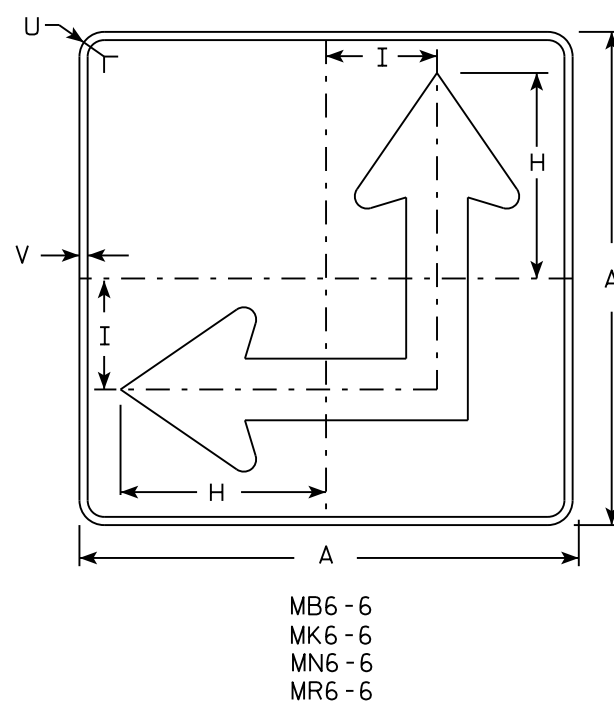
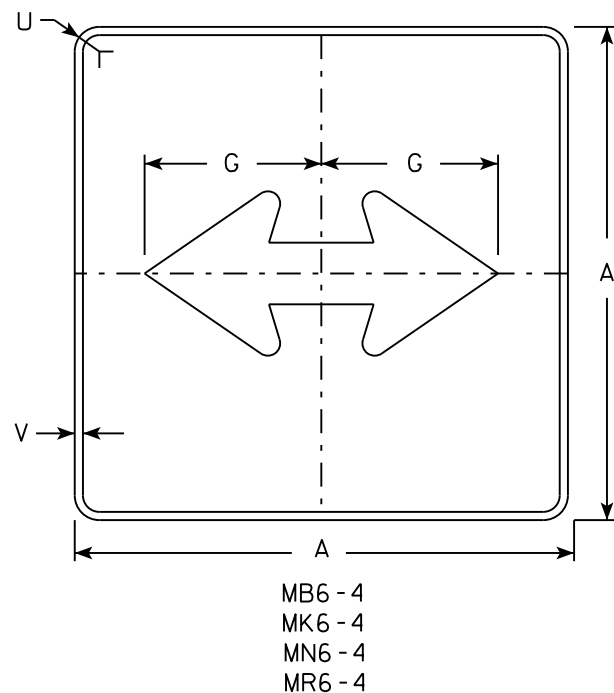
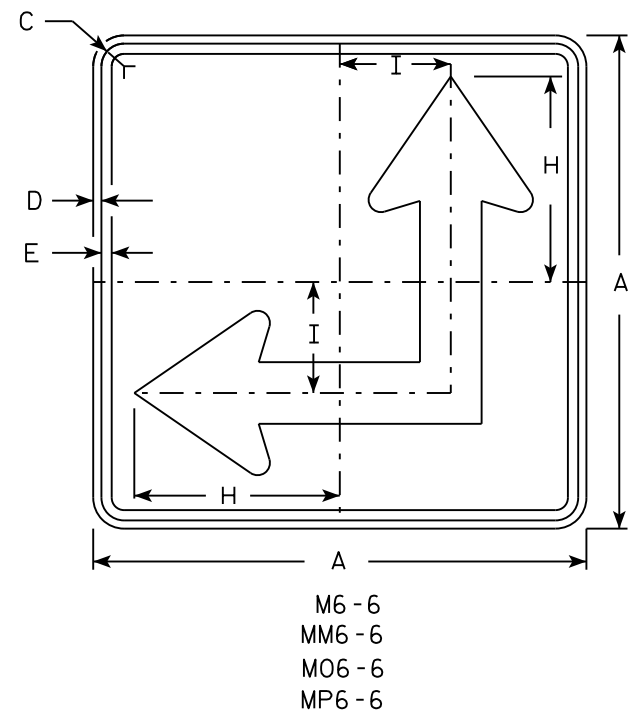
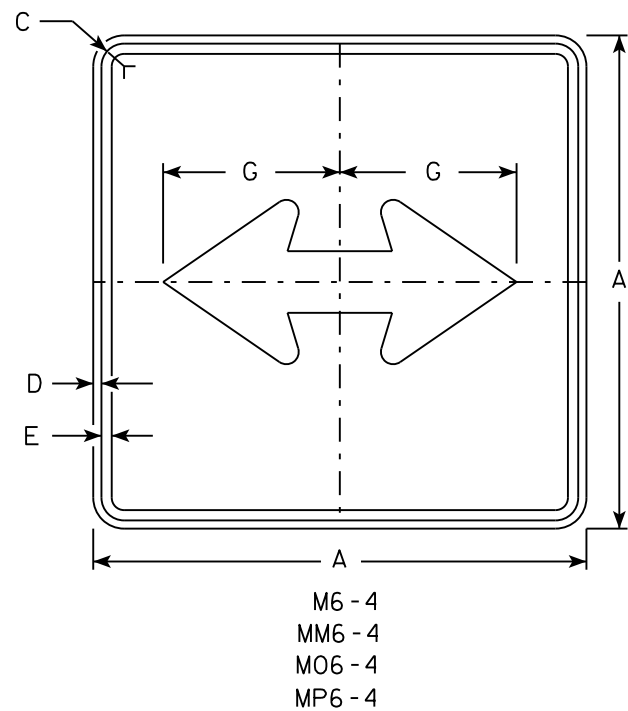
E

STANDARD SIGN
M6 - 1 & M6 - 2
SERIES

WISCONSIN DEPT OF TRANSPORTATION

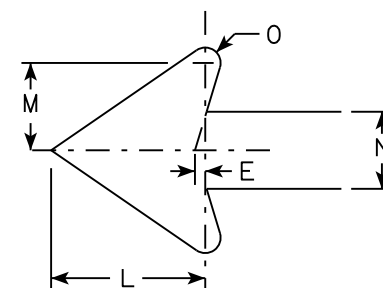
APPROVED
Matthew R. Rauch
for State Traffic Engineer

DATE 10/15/15 PLATE NO. M6-1.15



NOTES

- Signs are Type II - Type H except as Shown
- Color:
Background - See Note 4
Message - See Note 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.
- M6-4 and M6-6 Background - White
Message - Black
MB6-4 and MB6-6 Background - Blue
Message - White
MK6-4 and MK6-6 Background - Green
Message - White
MM6-4 and MM6-6 Background - White
Message - Green
MN6-4 and MN6-6 Background - Brown
Message - White
M06-4 and M06-6 Background - Orange - Type F Reflective
Message - Black
MP6-4 and MP6-6 Background - White
Message - Blue
MR6-4 and MR6-6 Background - Brown
Message - Yellow
- M6-6R same as M6-6L except arrow points ahead and right.



SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1																											
2	21		1 1/8	3/8	3/8		7 1/2	8 3/4	4 1/4			5 1/4	3	2 5/8	1/2						1 1/2	1/2					3.06
3	30		1 3/8	1/2	5/8		10 3/4	12 1/2	6 3/4			7 1/2	4 1/4	3 3/4	3/4						1 7/8	1/2					6.25
4	30		1 3/8	1/2	5/8		10 3/4	12 1/2	6 3/4			7 1/2	4 1/4	3 3/4	3/4						1 7/8	1/2					6.25
5	30		1 3/8	1/2	5/8		10 3/4	12 1/2	6 3/4			7 1/2	4 1/4	3 3/4	3/4						1 7/8	1/2					6.25

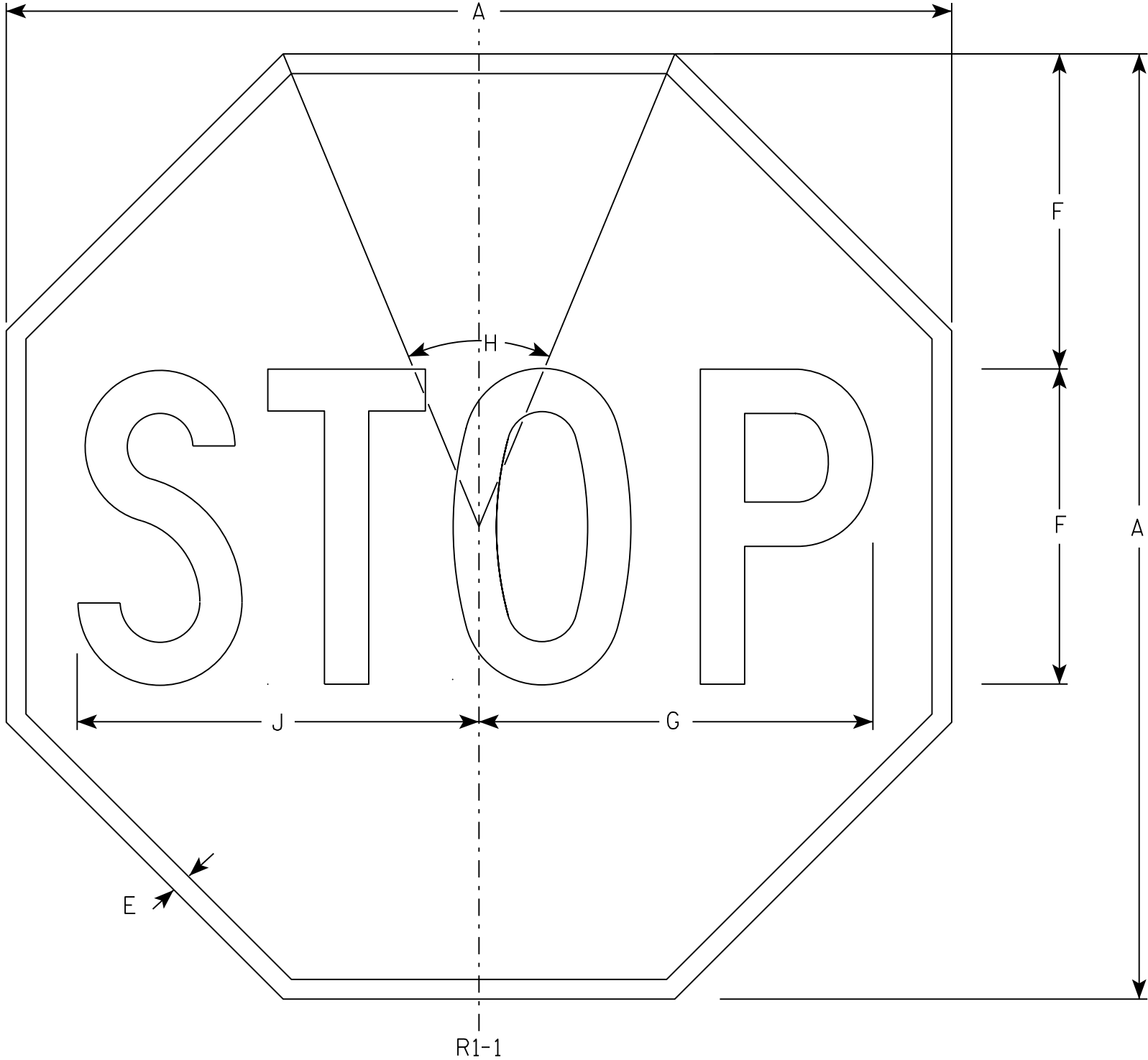
PROJECT NO:	HWY:	COUNTY:	SHEET NO:	E
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STANDARD SIGN
M6 - 4 & M6 - 6
SERIES

WISCONSIN DEPT OF TRANSPORTATION

APPROVED *Matthew R. Rauch*
for State Traffic Engineer

DATE 10/15/15 PLATE NO. M6-4.10



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

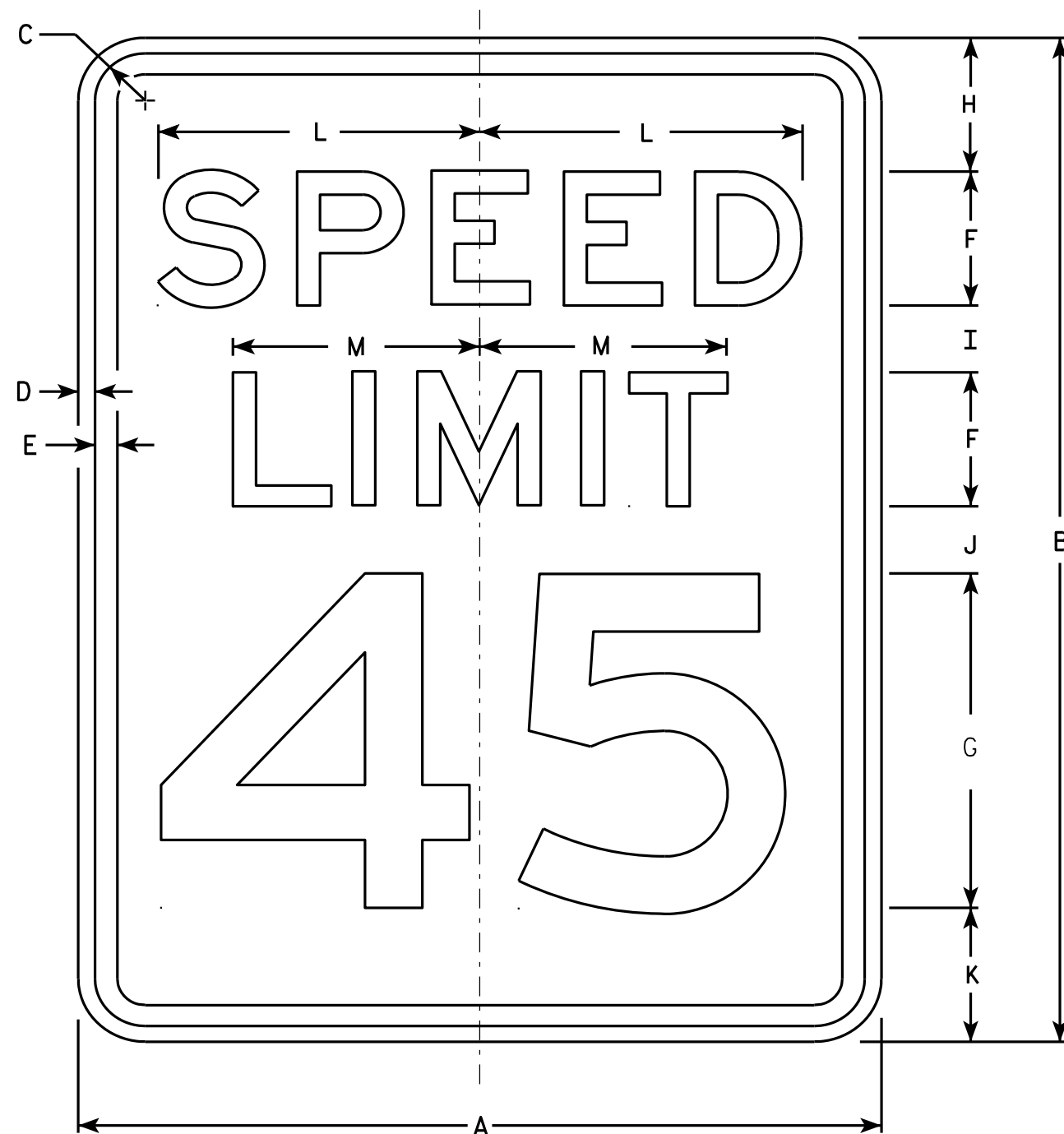
STANDARD SIGN

R1-1

WISCONSIN DEPT OF TRANSPORTATION

APPROVED *Matthew R. Rauch*
for State Traffic Engineer

DATE 11/12/15 PLATE NO. R1-1.13



R2-1

NOTES

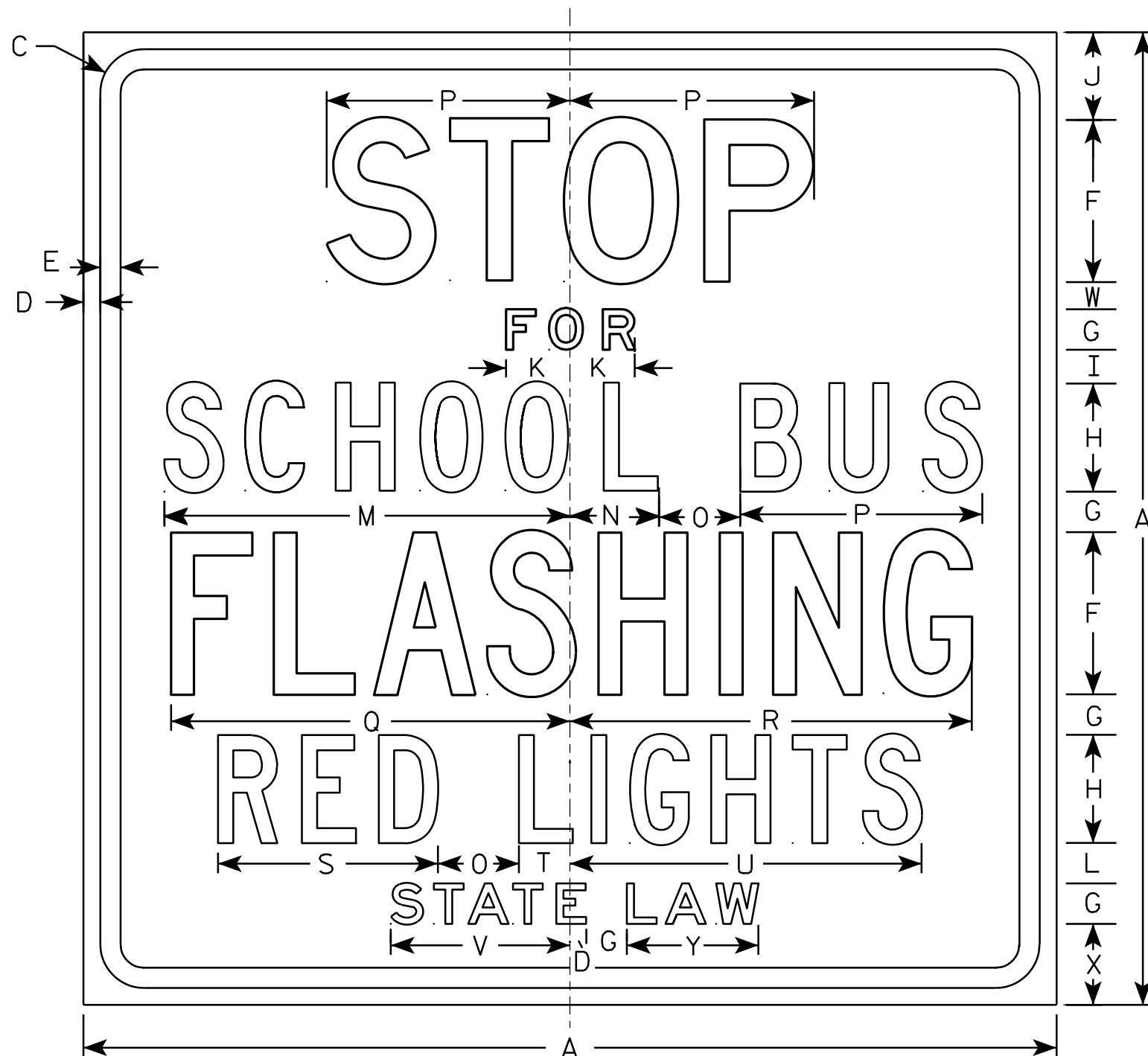
1. Sign is Type II - Type H Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
Background - White
Message - Black
3. Message Series - E
4. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.
5. Substitute appropriate numerals and optically adjust spacing to achieve proper balance.

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1	18	24	1 1/8	3/8	1/2	3	8	3	2	2	3	7 1/4	5 1/2														3.0
2S	24	30	1 1/8	3/8	1/2	4	10	3	2 1/4	3 3/8	3 3/8	9 5/8	7 3/8														5.0
2M	30	36	1 3/8	1/2	5/8	5	12	5	2 1/2	2 1/2	4	12	9 1/4														7.5
3	36	48	1 3/8	1/2	5/8	6	14	6	5	5	6	14 3/8	11														12.0
4	36	48	1 3/8	1/2	5/8	6	14	6	5	5	6	14 3/8	11														12.0
5	48	60	2 1/4	3/4	1	8	20	6	4 1/2	6 3/4	6 3/4	19 1/4	14 5/8														20.0

STANDARD SIGN R2-1

WISCONSIN DEPT OF TRANSPORTATION
APPROVED *Matthew R. Rauch*
For State Traffic Engineer
DATE 5/26/10 PLATE NO. R2-1.13

PROJECT NO: HWY: COUNTY: SHEET NO: E



R59-51

NOTES

1. Sign is Type II - Type H Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
Background - White
Message - Black
3. Message Series - See note 5
4. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.
5. Line 1 is Series D
Lines 2 & 6 are Series E
Line 3, 4 & 5 are 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																											
2S	36		1 5/8	5/8	3/4	6	1 1/2	4	1 1/4	3 1/4	2 3/8	1 1/2	15	3 1/4	3	9	14 3/4	14 7/8	8 1/8	1 7/8	13	6 5/8	1	3	4 7/8		9.0
2M	36		1 5/8	5/8	3/4	6	1 1/2	4	1 1/4	3 1/4	2 3/8	1 1/2	15	3 1/4	3	9	14 3/4	14 7/8	8 1/8	1 7/8	13	6 5/8	1	3	4 7/8		9.0
3	48		2 1/4	3/4	1	8	2	6	1 1/4	4 3/4	3 1/4	1 1/2	20 1/4	5	3 5/8	12	19 1/2	20	11 5/8	3 3/4	19	9 1/2	1	3 1/2	6 3/4		16.0
4	48		2 1/4	3/4	1	8	2	6	1 1/4	4 3/4	3 1/4	1 1/2	20 1/4	5	3 5/8	12	19 1/2	20	11 5/8	3 3/4	19	9 1/2	1	3 1/2	6 3/4		16.0
5																											

STANDARD SIGN R59-51

WISCONSIN DEPT OF TRANSPORTATION

APPROVED

Matthew R. Rauch
For State Traffic Engineer

DATE 3/30/11

PLATE NO. R59-51.10

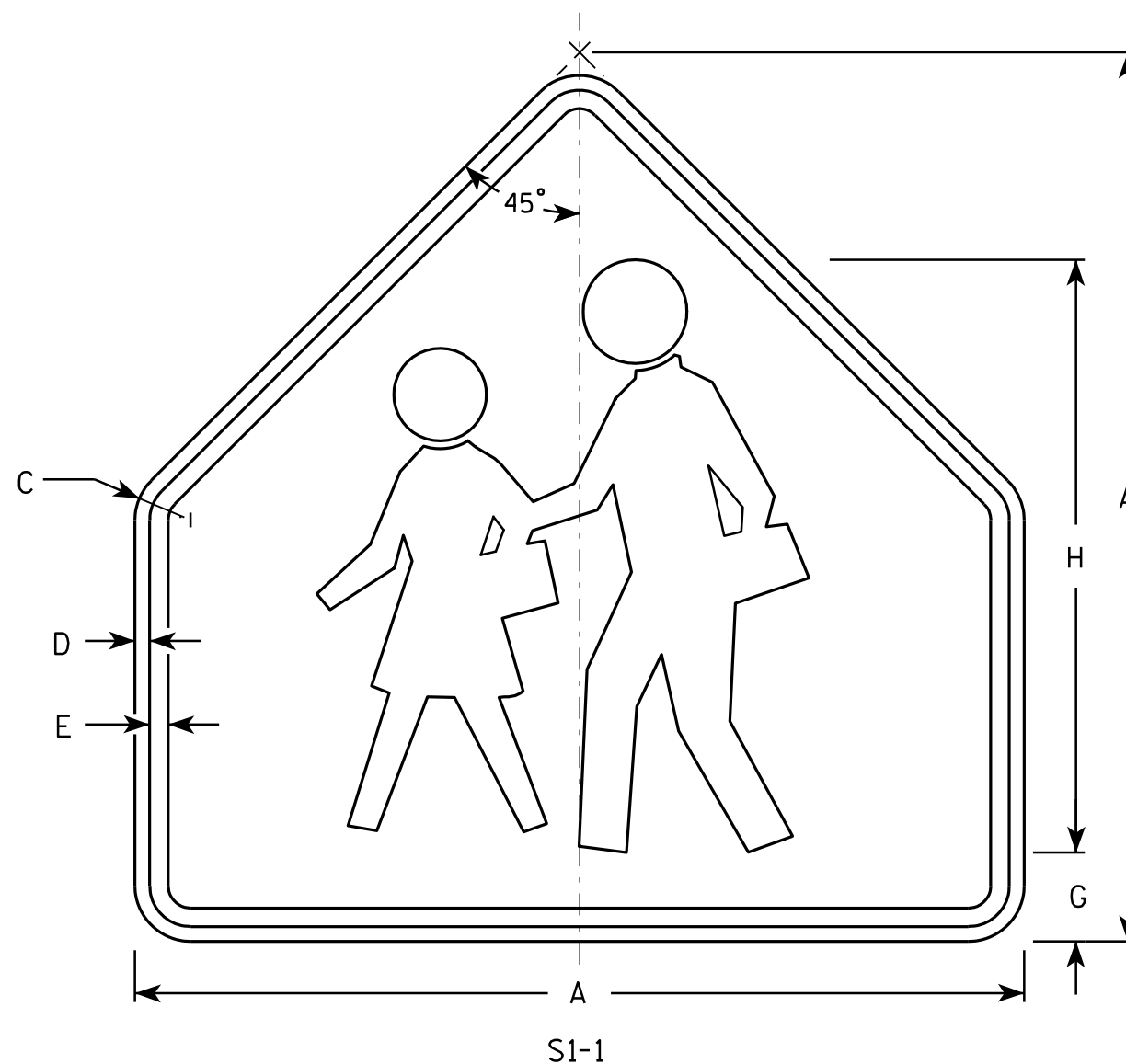
PROJECT NO:

HWY:

COUNTY:

SHEET NO:

E



NOTES

1. Sign is Type II - Type F Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
Background - Yellow-Green
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.

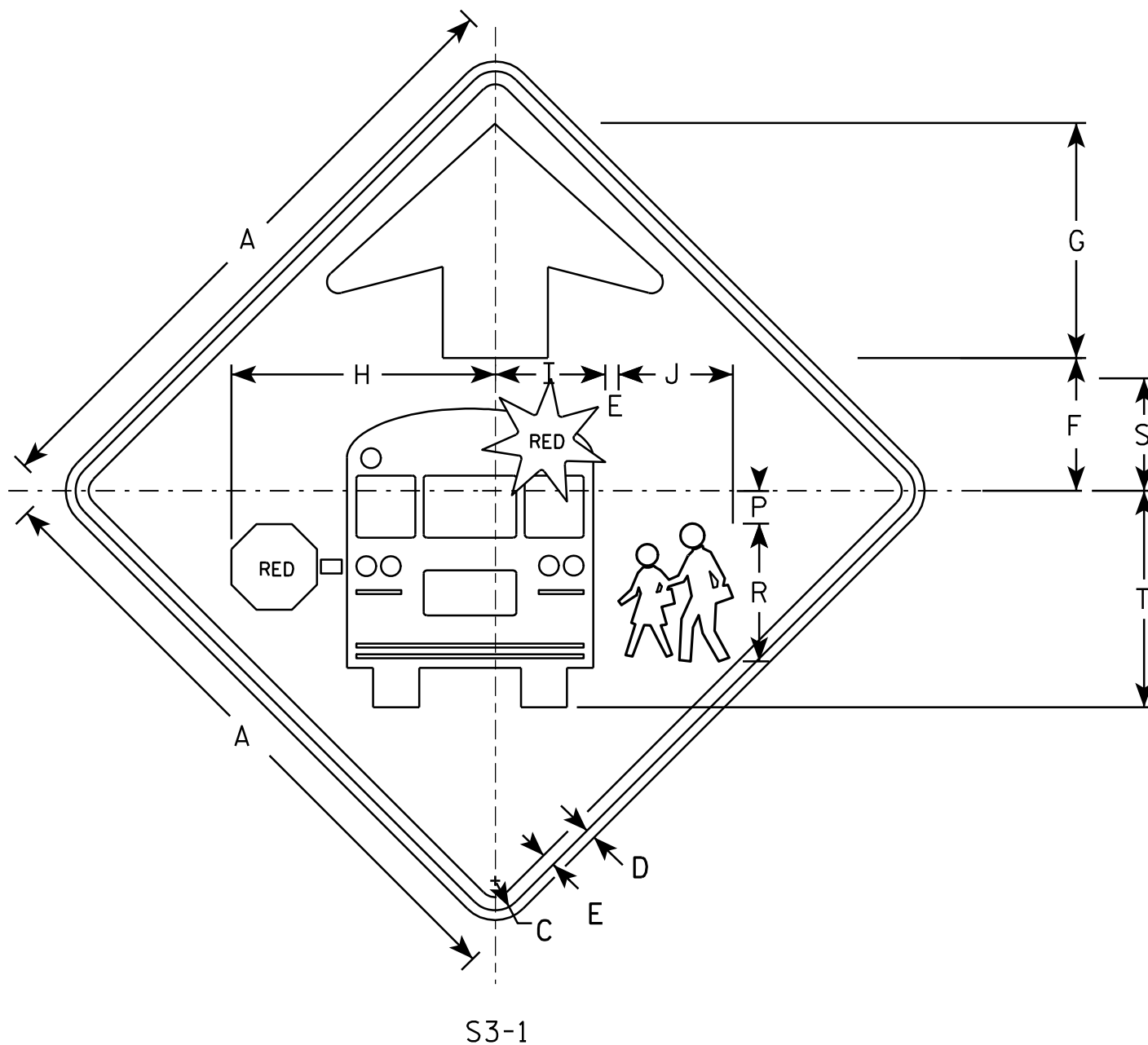
SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1	30		1 3/8	1/2	5/8		3	20																			4.69
2	36		1 5/8	5/8	3/4		3 1/2	24																			6.75
3	36		1 5/8	5/8	3/4		3 1/2	24																			6.75
4	48		2 1/4	3/4	1		4 3/4	32																			12
5																											

STANDARD SIGN S1-1

WISCONSIN DEPT OF TRANSPORTATION

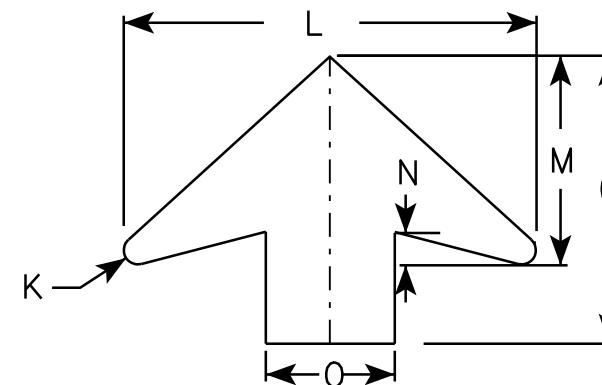
APPROVED Matthew R. Rauch
for State Traffic Engineer
DATE 6/30/05 PLATE NO. S1-1.8

PROJECT NO: HWY: COUNTY: SHEET NO: E

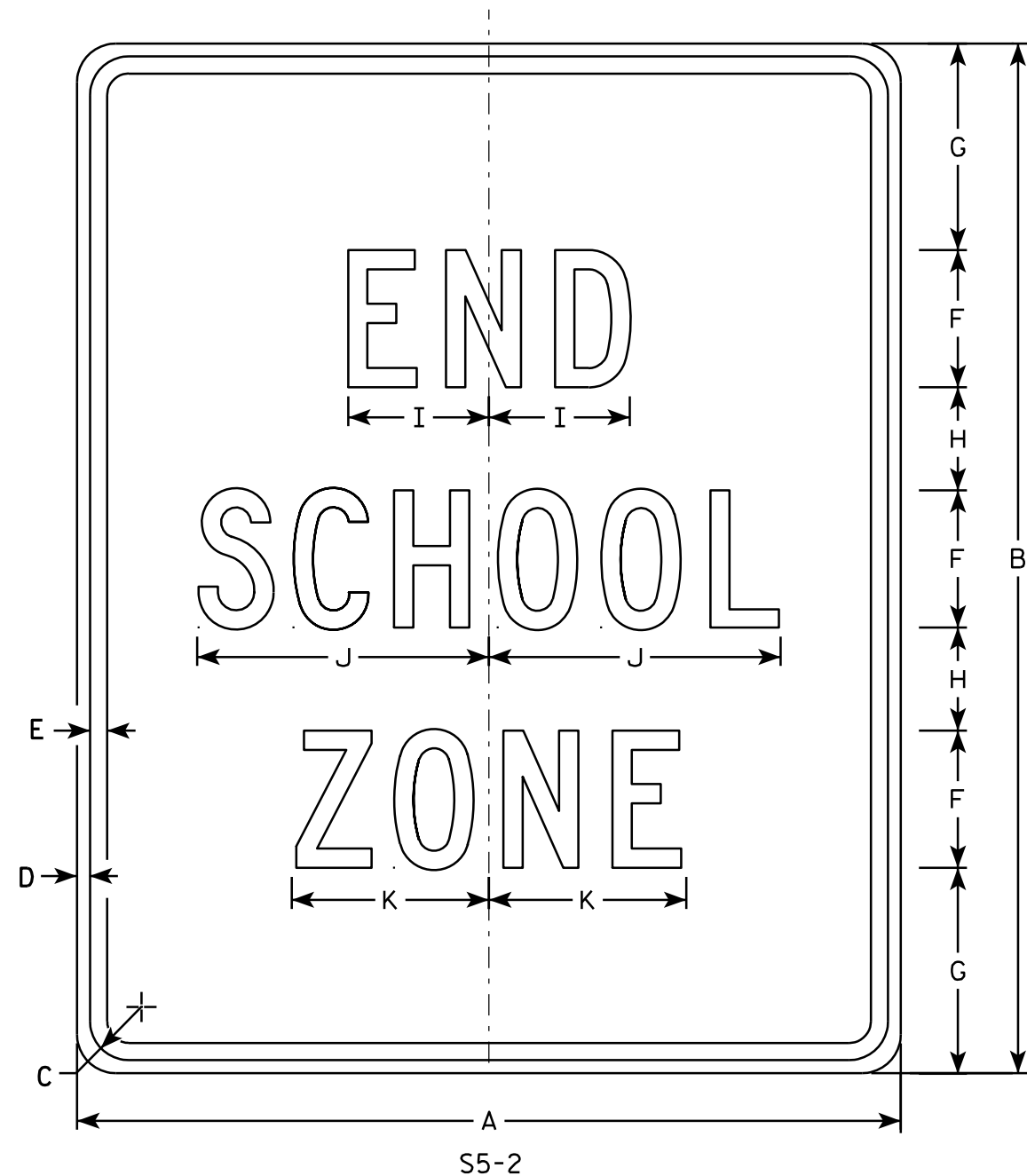


NOTES

1. All Signs Type II - Type F Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
 - Background - YELLOW-GREEN
 - Message - BLACK except as noted
 - Circles except PEDS- RED BACKGROUND
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.

[illegible]

STANDARD SIGN	
S3-1	
WISCONSIN DEPT OF TRANSPORTATION	
APPROVED	<u>Matthew R. Rauch</u> for State Traffic Engineer
DATE <u>6/8/10</u>	PLATE NO. <u>S3-16</u>



NOTES

1. Sign is Type II - Type H Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
Background - White
Message - Black
3. Message Series - C
4. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1																											
2	24	30	1 1/8	3/8	1/2	4	6	3	4 1/8	8 1/2	5 3/4																5.0
3	36	42	1 5/8	5/8	3/4	6	7	5	6 1/8	12 5/8	8 5/8																10.5
4																											
5																											

STANDARD SIGN
S5-2

WISCONSIN DEPT OF TRANSPORTATION

APPROVED *Matthew R. Rauch*
For State Traffic Engineer

DATE 3/8/11 PLATE NO. S5-2.2

PROJECT NO:

HWY:

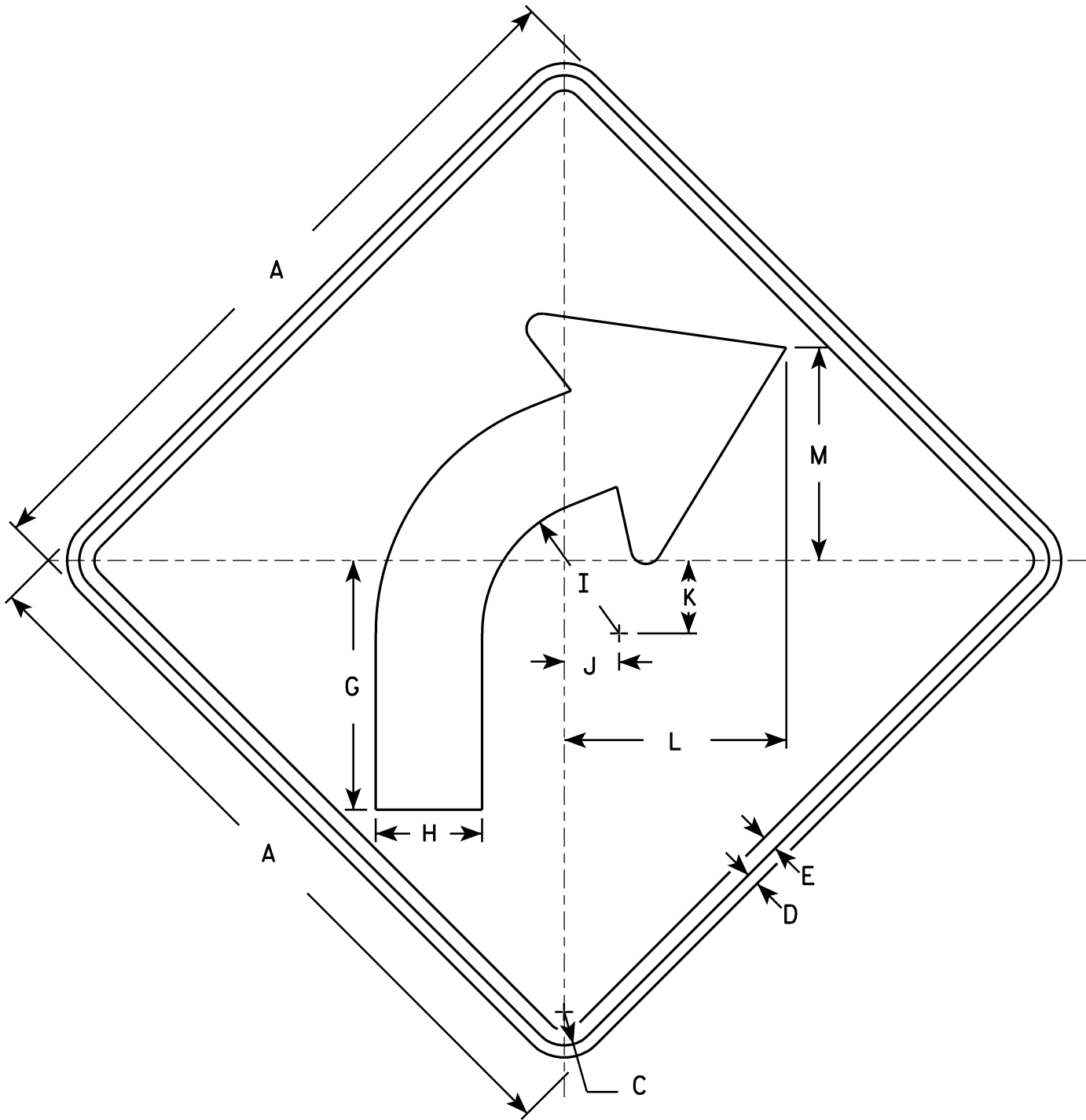
COUNTY:

SHEET NO:

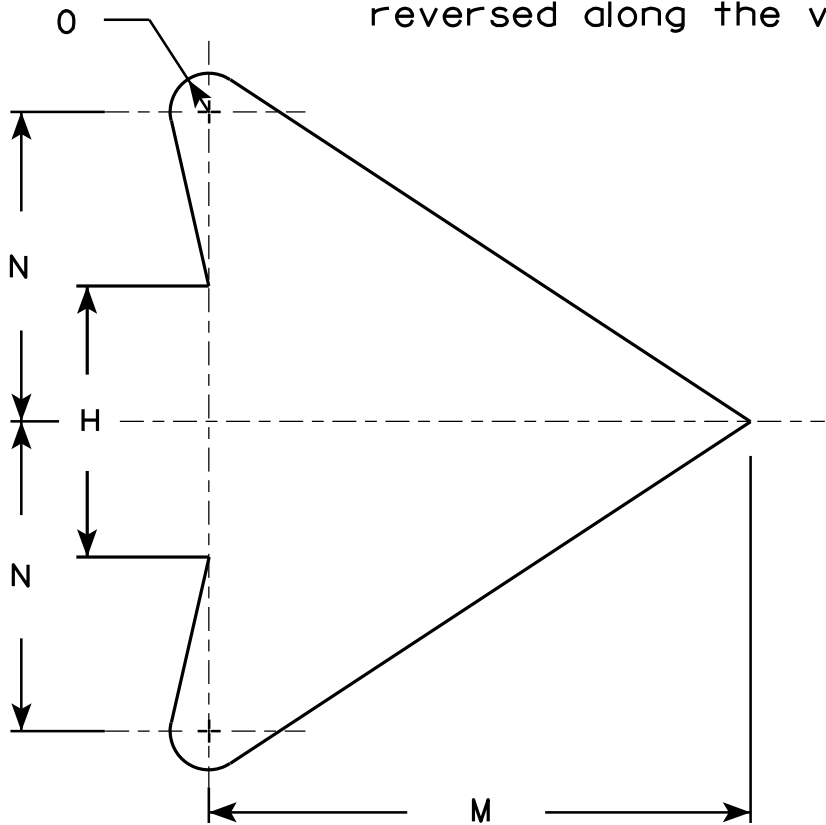
E

NOTES

1. Sign is Type II - Type F Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
Background - Yellow
Message - Black
3. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.
4. W1-2L is the same as W1-2R except the arrow is reversed along the vertical centerline.



W1-2R



ARROW DETAIL

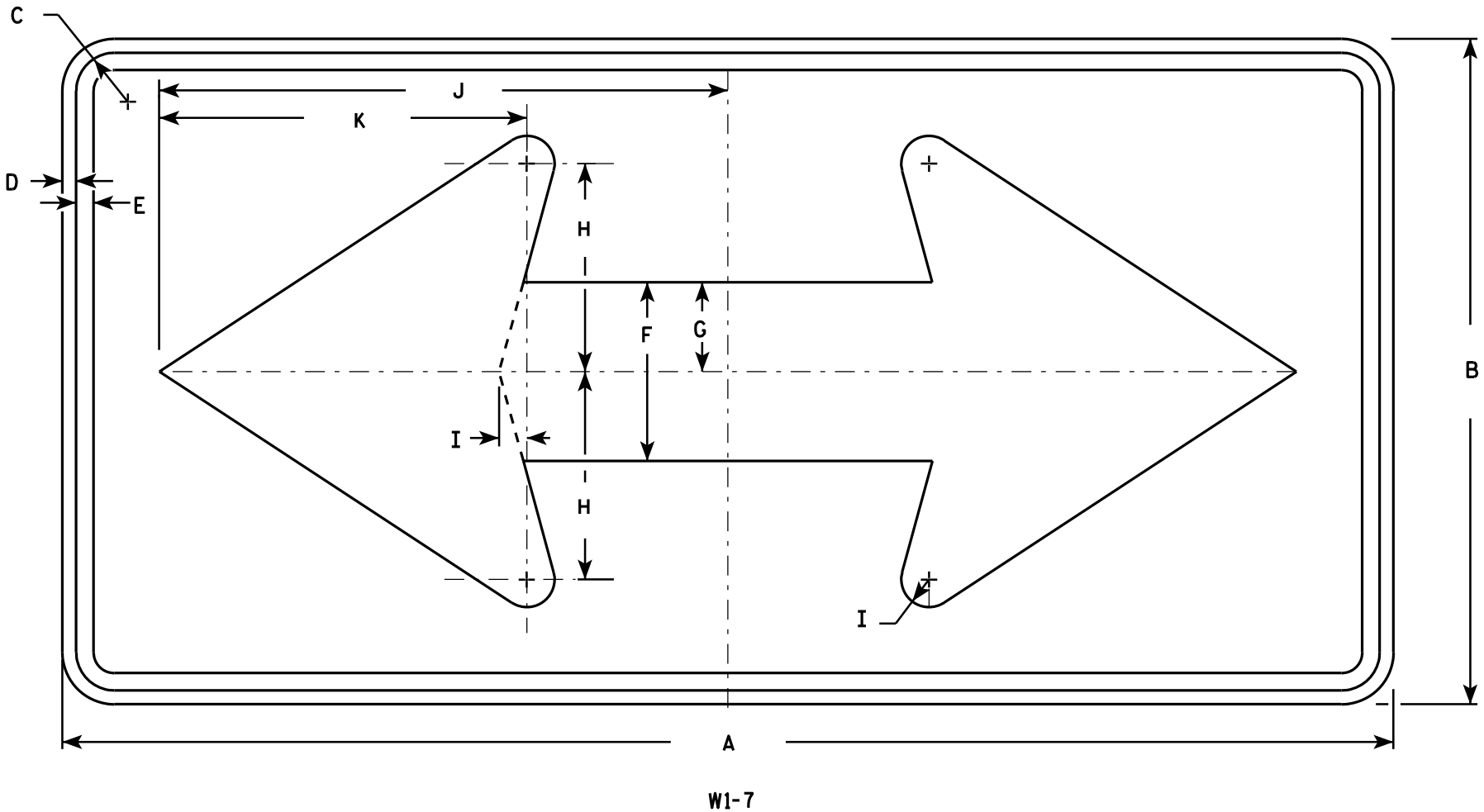
SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1	24		1 1/8	3/8	1/2		8 1/4	3 1/2	4 1/2	1 3/4	2 3/8	7 1/4	7	4	1/2												4.0
2S	30		1 3/8	1/2	5/8		10 1/4	4 3/8	5 5/8	2 1/4	3	9 1/8	8 3/4	5	5/8												6.25
2M	36		1 5/8	5/8	3/4		12 3/8	5 1/4	6 3/4	2 5/8	3 1/2	10 7/8	10 1/2	6	3/4												9.0
3	36		1 5/8	5/8	3/4		12 3/8	5 1/4	6 3/4	2 5/8	3 1/2	10 7/8	10 1/2	6	3/4												9.0
4	36		1 5/8	5/8	3/4		12 3/8	5 1/4	6 3/4	2 5/8	3 1/2	10 7/8	10 1/2	6	3/4												9.0
5	48		2 1/4	3/4	1		16 1/2	7	9	3 1/2	4 5/8	14 1/2	14	8	1												16.0

STANDARD SIGN
W1-2

WISCONSIN DEPT OF TRANSPORTATION

APPROVED
Matthew R. Rauch
for State Traffic Engineer

DATE 5/15/12 PLATE NO. W1-2.10



NOTES

1. Sign is Type II - Type F Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
Background - Yellow
Message - Black
3. 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.

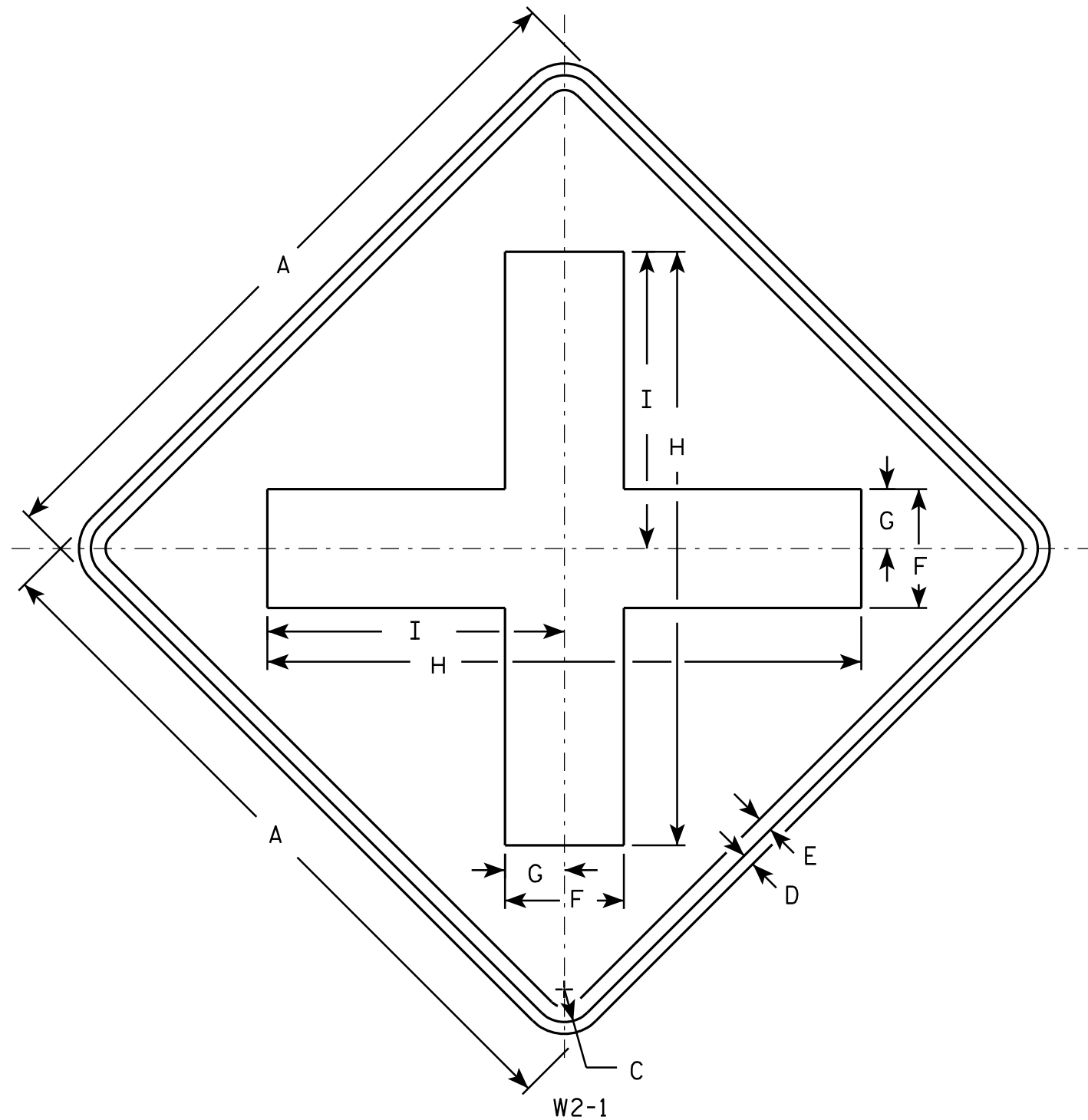
SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1	36	18	1 1/8	3/8	1/2	5	2 1/2	5 3/4	3/4	15 5/8	10 1/8																4.5
2S	48	24	1 3/8	1/2	5/8	6 1/2	3 1/4	7 1/2	1	20 1/2	13 1/4																8.0
2M	48	24	1 3/8	1/2	5/8	6 1/2	3 1/4	7 1/2	1	20 1/2	13 1/4																8.0
3	60	30	1 3/8	1/2	5/8	8	4	9 1/4	1 1/4	25 3/8	16 1/4																12.5
4	60	30	1 3/8	1/2	5/8	8	4	9 1/4	1 1/4	25 3/8	16 1/4																12.5
5	96	48	2 1/4	3/4	1	13	6 1/2	15	2	41	26 1/2																32.0

STANDARD SIGN
W1 - 7

WISCONSIN DEPT OF TRANSPORTATION

APPROVED *Matthew R. Rauch*
for State Traffic Engineer

DATE 6/7/10 PLATE NO. W1-7.7



NOTES

1. Sign is Type II - Type F Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
Background - Yellow
Message - Black
3. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1	24		1 1/8	3/8	1/2	4	2	20	10																		4.0
2S	30		1 3/8	1/2	5/8	5	2 1/2	25	12 1/2																		6.25
2M	30		1 3/8	1/2	5/8	5	2 1/2	25	12 1/2																		6.25
3	36		1 5/8	5/8	3/4	6	3	30	15																		9.0
4	48		2 1/4	3/4	1	8	4	40	20																		16.0
5																											

STANDARD SIGN

W2-1

WISCONSIN DEPT OF TRANSPORTATION

APPROVED

Matthew R. Rauch
for State Traffic Engineer

DATE 5/29/12

PLATE NO. W2-1.9

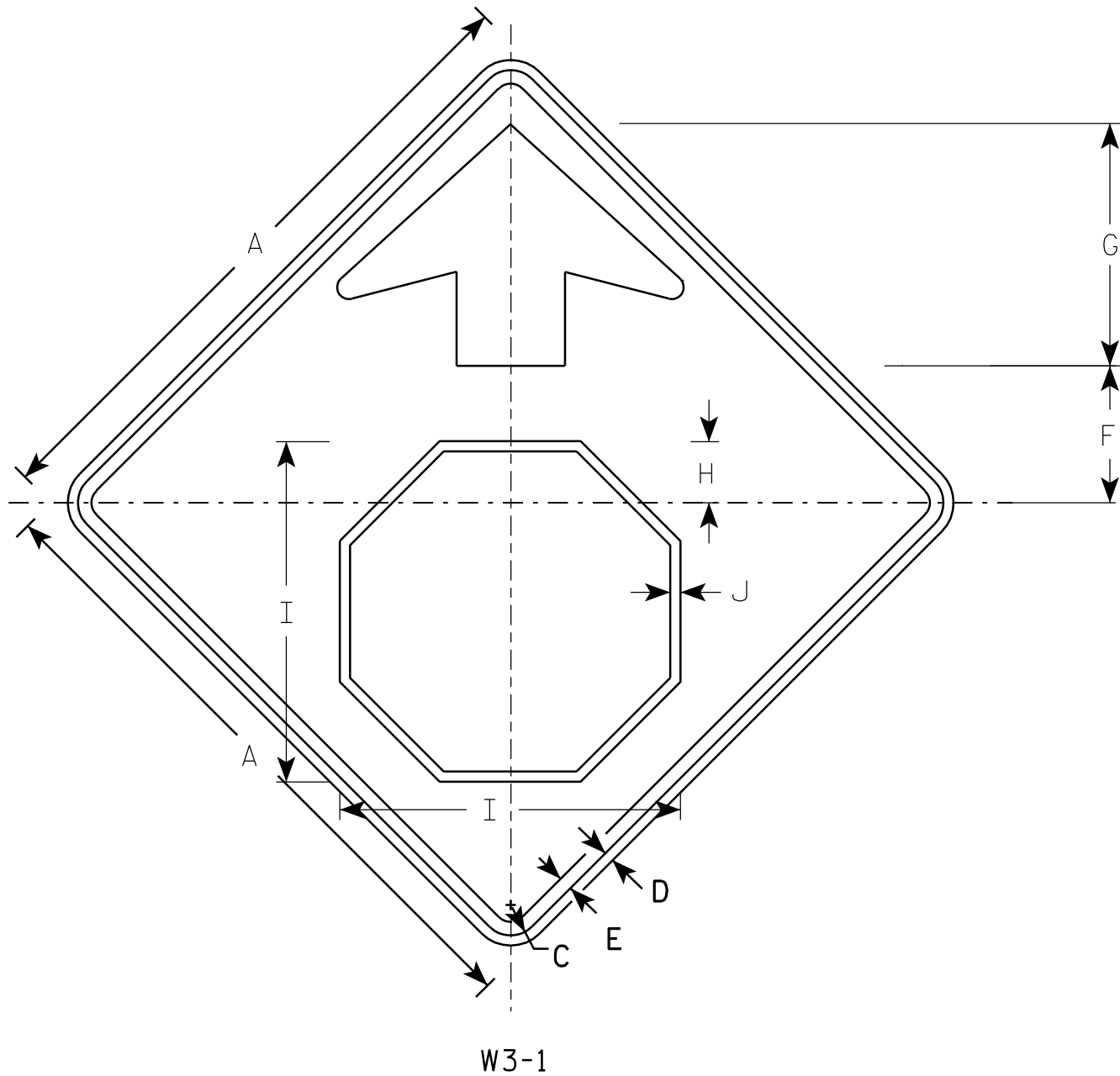
PROJECT NO:

HWY:

COUNTY:

SHEET NO:

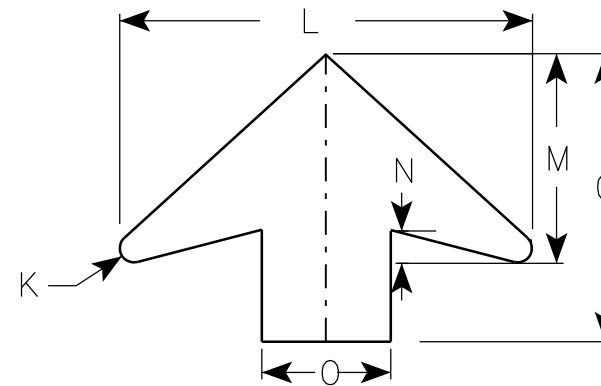
E



W3-1

NOTES

1. All Signs Type II - Type F Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color:
Background - YELLOW
Arrow & Border - BLACK
Stop Symbol - WHITE BORDER ON RED BACKGROUND



ARROW DETAIL

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1	30		1 3/8	1/2	5/8	6 1/4	11 1/4	2 7/8	15 3/4	1/2	1/2	16	8	1 1/4	5												6.25
2S	36		1 5/8	5/8	3/4	7 1/2	13 1/2	3 1/2	19	5/8	5/8	19 1/4	9 3/4	1 5/8	6												9.0
2M	36		1 5/8	5/8	3/4	7 1/2	13 1/2	3 1/2	19	5/8	5/8	19 1/4	9 3/4	1 5/8	6												9.0
3	36		1 5/8	5/8	3/4	7 1/2	13 1/2	3 1/2	19	5/8	5/8	19 1/4	9 3/4	1 5/8	6												9.0
4	48		2 1/4	3/4	1	10	17 7/8	4 1/2	25 1/8	3/4	7/8	25 5/8	13	2	8												16.0
5	48		2 1/4	3/4	1	10	17 7/8	4 1/2	25 1/8	3/4	7/8	25 5/8	13	2	8												16.0

PROJECT NO:

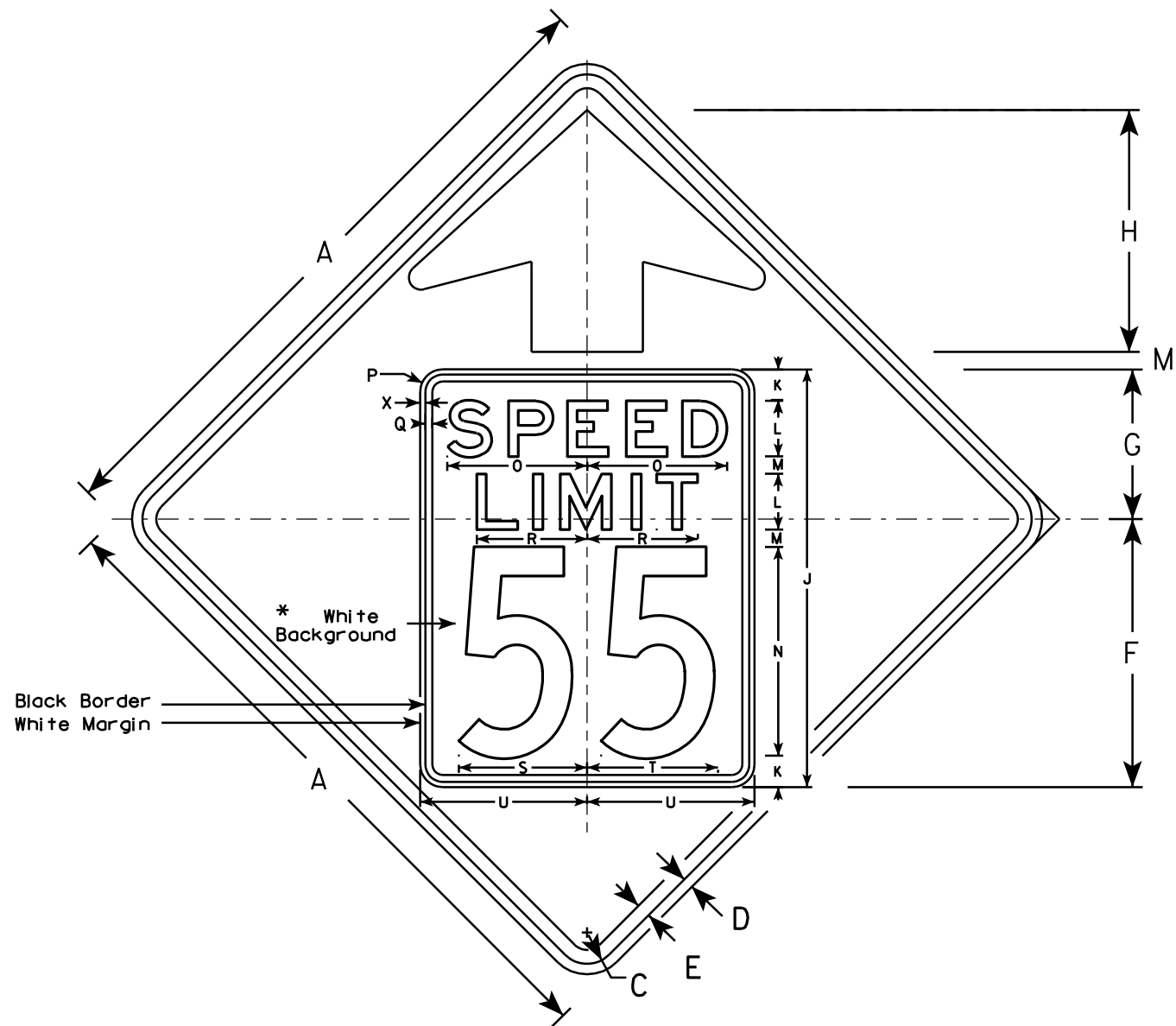
STANDARD SIGN
W3-1

WISCONSIN DEPT OF TRANSPORTATION

APPROVED *Matthew R. Rauch*
for State Traffic Engineer
DATE 6/7/10 PLATE NO. W3-1.12

SHEET NO:

E

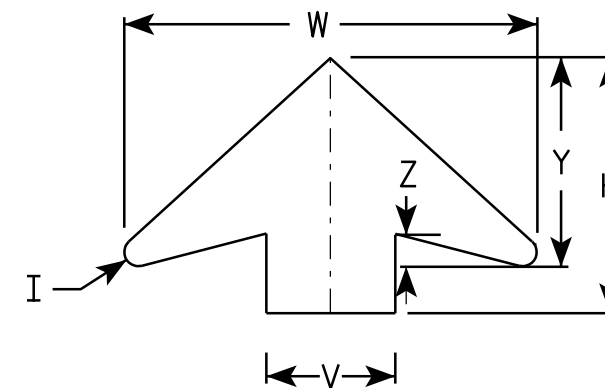


W3-5

NOTES

1. Sign is Type II - Type F Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
2. Color: *
Background - YELLOW*
Message - BLACK
3. Message Series - C for numbers Series E for wording
4. Substitute appropriate numerals and optically adjust spacing to achieve proper balance

*Speed Limit Sign shall have a White Background



ARROW DETAIL

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1																											
2S	36		1 5/8	5/8	3/4	14 1/2	9 1/2	11 1/2	5/8	24	2	3	1	12	7 1/8	1 1/2	3/8	5 3/4	7 1/4	7 1/8	9	6	19 1/4	3/8	9 3/4	1 5/8	9.0
2M	36		1 5/8	5/8	3/4	14 1/2	9 1/2	11 1/2	5/8	24	2	3	1	12	7 1/8	1 1/2	3/8	5 3/4	7 1/4	7 1/8	9	6	19 1/4	3/8	9 3/4	1 5/8	9.0
3	36		1 5/8	5/8	3/4	14 1/2	9 1/2	11 1/2	5/8	24	2	3	1	12	7 1/8	1 1/2	3/8	5 3/4	7 1/4	7 1/8	9	6	19 1/4	3/8	9 3/4	1 5/8	9.0
4	48		2 1/4	3/4	1	19 1/4	10 3/4	17 3/8	7/8	30	2 1/4	4	1 1/4	15	10	1 5/8	1/2	8	9 1/4	9 3/8	12	8	25 5/8	3/8	13	2	16.0
5	48		2 1/4	3/4	1	19 1/4	10 3/4	17 3/8	7/8	30	2 1/4	4	1 1/4	15	10	1 5/8	1/2	8	9 1/4	9 3/8	12	8	25 5/8	3/8	13	2	16.0

STANDARD SIGN

W3-5

WISCONSIN DEPT OF TRANSPORTATION

APPROVED *Matthew R. Rauch*
for State Traffic Engineer

DATE 5/29/12 PLATE NO. W3-5.5

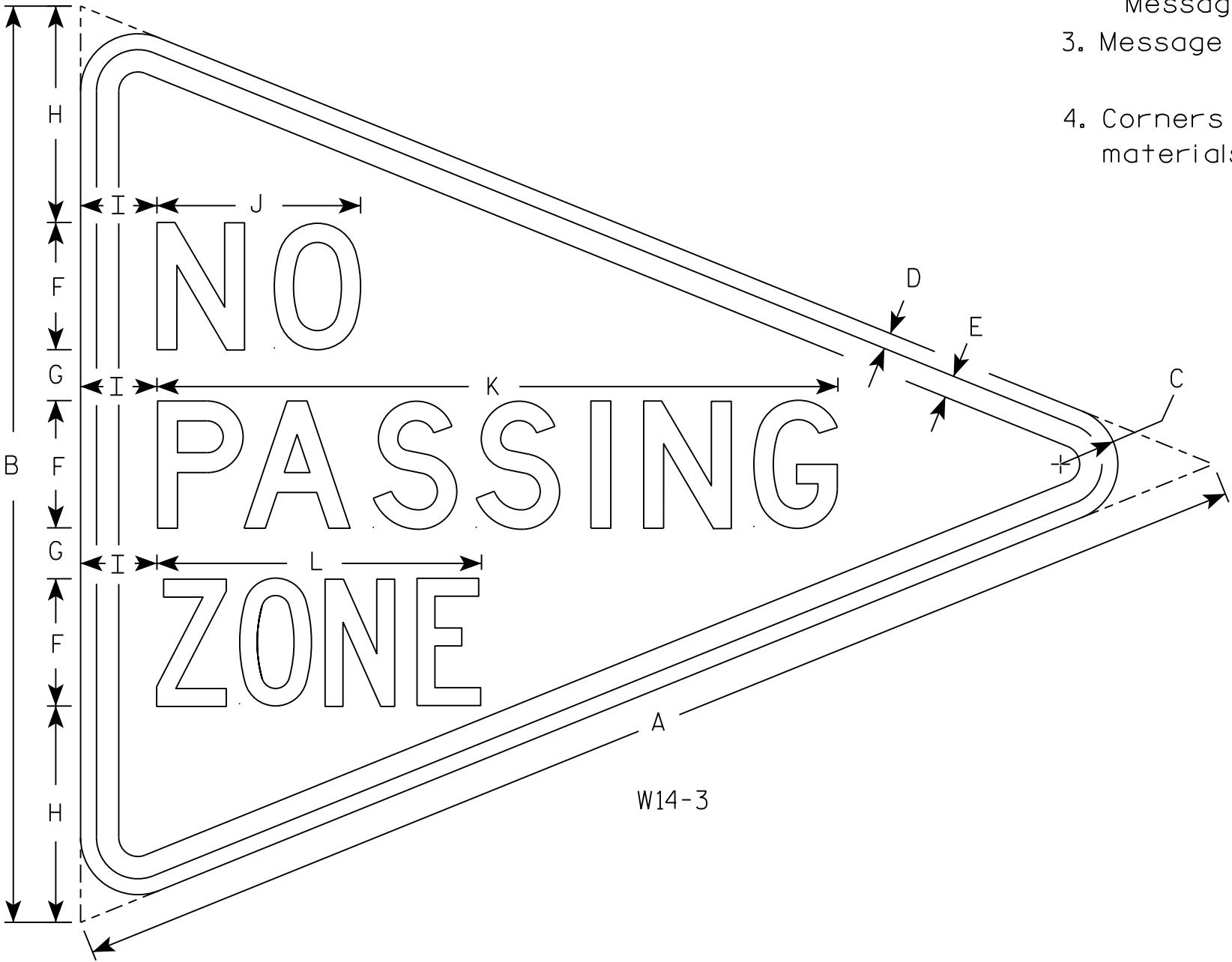
PROJECT NO:

SHEET NO:

E

NOTES

- 1. Sign is Type II - Type F Reflective
- 2. Color:
Background - Yellow
Message - Black
- 3. Message Series - Lines 1 and 2 are Series D.
Line 3 is series C.
- 4. Corners and borders shall be rounded on all base materials for this sign.



7

7

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	36	2 1/4	5/8	7/8	5	2	8 1/2	3	8	26 3/4	12 3/4															5.56
2M																											
3																											
4																											
5																											

PROJECT NO:

HWY:

COUNTY:

SHEET NO:

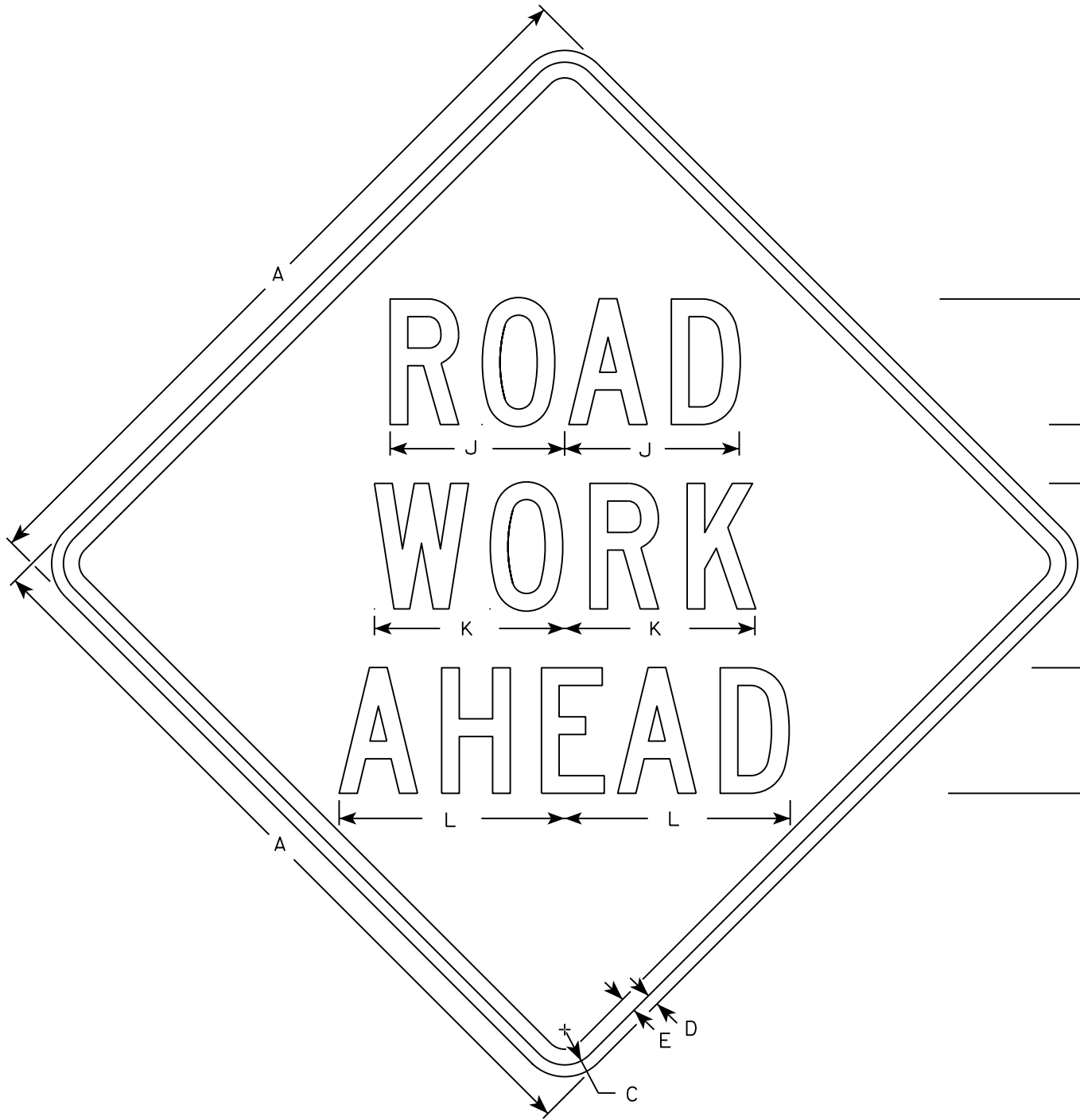
E

STANDARD SIGN
W14-3

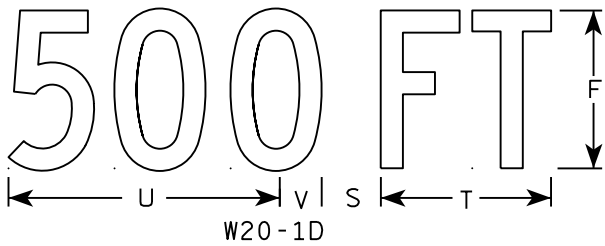
WISCONSIN DEPT OF TRANSPORTATION

APPROVED *Matthew R. Rauch*
for State Traffic Engineer

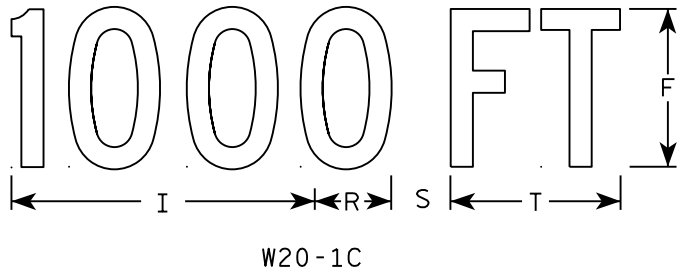
DATE 3/21/17 PLATE NO. W14-3.10



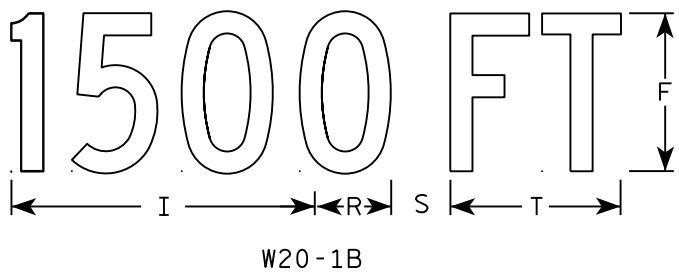
W20-1A



W20-1D



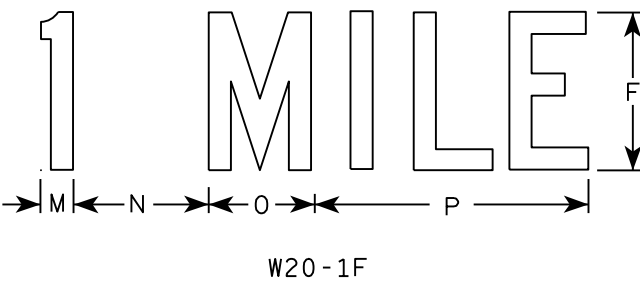
W20-1C



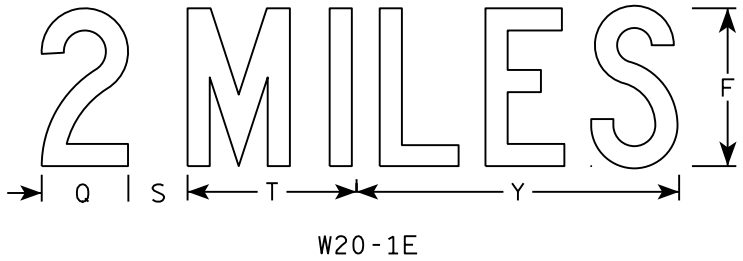
W20-1B



W20-1G



W20-1F



W20-1E

NOTES

- 1. Sign is Type II - Type F Reflective
- 2. Color:
Background - Orange
Message - Black
- 3. Message Series - C
- 4. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.

SIZE	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1	36		1 3/8	1/2	5/8	5	2 5/8	3 1/4	10 1/8	7	7 5/8	8 7/8	1 1/8	4 1/2	3 1/2	9		2 1/2	2 1/4	5 5/8	9	1 3/8	8	1 3/4	10 3/4	6	9.0
2S	48		2 1/4	3/4	1	8	3 3/4	5 1/8	15 3/8	11 1/8	12 1/8	14 3/8	1 5/8	6 7/8	5 3/8	13 7/8	4 3/8	3 7/8	3	8 5/8	13 3/4	2 1/8	11 7/8	2 3/4	16 3/8	9	16.0
2M	48		2 1/4	3/4	1	8	3 3/4	5 1/8	15 3/8	11 1/8	12 1/8	14 3/8	1 5/8	6 7/8	5 3/8	13 7/8	4 3/8	3 7/8	3	8 5/8	13 3/4	2 1/8	11 7/8	2 3/4	16 3/8	9	16.0
3	48		2 1/4	3/4	1	8	3 3/4	5 1/8	15 3/8	11 1/8	12 1/8	14 3/8	1 5/8	6 7/8	5 3/8	13 7/8	4 3/8	3 7/8	3	8 5/8	13 3/4	2 1/8	11 7/8	2 3/4	16 3/8	9	16.0
4	48		2 1/4	3/4	1	8	3 3/4	5 1/8	15 3/8	11 1/8	12 1/8	14 3/8	1 5/8	6 7/8	5 3/8	13 7/8	4 3/8	3 7/8	3	8 5/8	13 3/4	2 1/8	11 7/8	2 3/4	16 3/8	9	16.0
5	48		2 1/4	3/4	1	8	3 3/4	5 1/8	15 3/8	11 1/8	12 1/8	14 3/8	1 5/8	6 7/8	5 3/8	13 7/8	4 3/8	3 7/8	3	8 5/8	13 3/4	2 1/8	11 7/8	2 3/4	16 3/8	9	16.0

STANDARD SIGN
W20-1A, B, C, D, F & G

WISCONSIN DEPT OF TRANSPORTATION

APPROVED *Matthew R. Rauch*
for State Traffic Engineer

DATE 5/07/15 PLATE NO. W20-1.10

Notes



Wisconsin Department of Transportation

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