

STATE PROJECT	FEDERAL PROJECT	
	PROJECT	CONTRACT
1009-12-94	WISC 2020105	1

ORDER OF SHEETS

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

TOTAL SHEETS = 32

STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION

PLAN OF PROPOSED IMPROVEMENT

SW REGION PVMT MARKING WESTERN CTYS

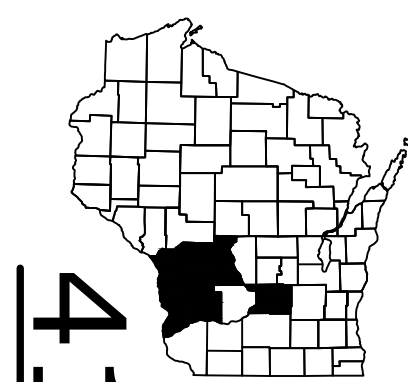
STN LOCATIONS PER ANNUAL PLAN

VAR HWY
SW REGION WIDE

STATE PROJECT NUMBER
1009-12-94

PROJECT ID: 1009-12-94

COUNTY: VARIOUS COUNTIES



IH 90 EB & WB

La Crosse County Line - STH 16

USH 53 NB & SB
OLD 93 Rd - CTH T

IH 94 EB & WB
Warrens - Tomah

STH 21 EB & WB
Monroe County Line - Necedah

IH 90 EB & WB
CTH M - USH 12

IH 90 EB & WB
Mississippi River - STH 16

IH 39 NB & SB
Dane County Line - CTH CS

USH 14 EB & WB
CTH YY - STH 162

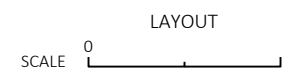
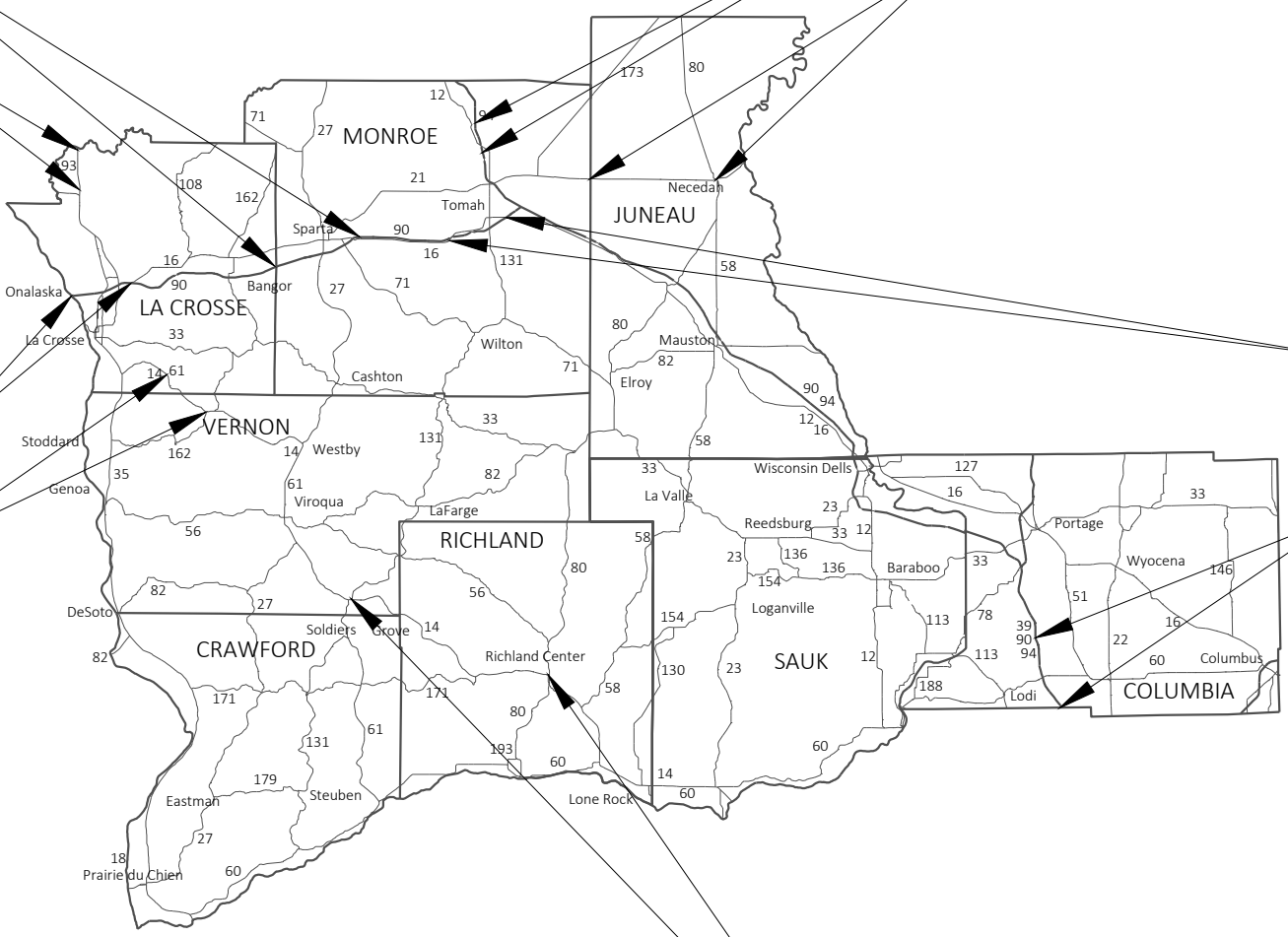
USH 14 EB & WB
Readstown - Richland Center

DESIGN DESIGNATION

A.A.D.T.	=
A.A.D.T.	=
D.H.V.	=
D.D.	=
T.	=
DESIGN SPEED	=
ESALS	=

CONVENTIONAL SYMBOLS

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



TOTAL NET LENGTH OF CENTERLINE = 0.000 MI

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

PREPARED BY

Surveyor _____

Designer _____ IVER PETERSON

Project Manager _____

Regional Examiner _____

Regional Supervisor _____ RICK VYDRZAL

APPROVED FOR THE DEPARTMENT

DATE: _____ *[Signature]*

(Signature)

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.

DESIGN CONTACTS

PROJECT MANAGER
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PROJECT SUPERVISOR
RICHARD VYDRZAL
WISDOT SW REGION
3550 MORMON COULEE ROAD
LA CROSSE, WI 54601
608-785-9043



Estimate Of Quantities

1009-12-94

Line	Item	Item Description	Unit	Total	Qty
0002	619.1000	Mobilization	EACH	1.000	1.000
0004	643.5000	Traffic Control	EACH	1.000	1.000
0006	646.1020	Marking Line Epoxy 4-Inch	LF	1,534,204.000	1,534,204.000
0008	646.3020	Marking Line Epoxy 8-Inch	LF	54,594.000	54,594.000
0010	646.5020	Marking Arrow Epoxy	EACH	33.000	33.000
0012	646.5120	Marking Word Epoxy	EACH	22.000	22.000
0014	646.5320	Marking Railroad Crossings Epoxy	EACH	3.000	3.000
0016	646.5420	Marking Aerial Enforcement Bar Epoxy	EACH	40.000	40.000
0018	646.6120	Marking Stop Line Epoxy 18-Inch	LF	1,314.000	1,314.000
0020	646.7120	Marking Diagonal Epoxy 12-Inch	LF	952.000	952.000
0022	646.7420	Marking Crosswalk Epoxy Transverse Line 6-Inch	LF	534.000	534.000
0024	646.8120	Marking Curb Epoxy	LF	50.000	50.000
0026	646.8220	Marking Island Nose Epoxy	EACH	6.000	6.000

3

3

PAVEMENT MARKING EPOXY (INTERSTATE LOCATIONS)

COLUMBIA COUNTY (DANE COUNTY LINE - CTH CS)

HIGHWAY	LOCATION (From)	LOCATION (To)	646.1020			646.3020		
			4-INCH EDGELINE YELLOW L.F.	4-INCH LANELINE WHITE L.F.	4-INCH EDGELINE WHITE L.F.	8-INCH CHANNELIZING WHITE (MAINLINE) L.F.	8-INCH CHANNELIZING WHITE (RAMP) L.F.	8-INCH CHANNELIZING WHITE (Island Gore) L.F.
IH 39 NB Mainline	Mile 123.2 (Dane County Line)	Mile 115.7 (Off Ramp to CS)	39600		39600			
IH 39 NB Ramps	Exit 119	OFF Ramp to STH 60	911		1713	281	279	118
	Exit 119	ON Ramp from STH 60	1111		2223	343	345	
	Exit 115	OFF Ramp to CTH CS	732		1302	196	194	108
	Exit 115	ON ramp from CTH CS	882		2035	316	318	
IH 39 SB Mainline	Rest Area at Mile Marker 113.6	OFF Ramp to Rest Area			866	237	192	
	Rest Area at Mile Marker 113.6	ON Ramp from Rest Area			1410	521	531	
IH 39 SB Mainline	Mile 115.7 (Off Ramp to CS)	Mile 132.2 (Dane County Line)	39600		39600			
IH 39 SB Ramps	Exit 108-A	OFF Ramp to STH 78 SB	1129	163	3934			
	Exit 108-B	OFF Ramp (Loop) to IH-39 NB	5407		5989	384	380	442
	Rest Area at Mile Marker 112.6	OFF Ramp to Rest Area			899	239	235	
	Rest Area at Mile Marker 112.6	ON Ramp from Rest Area			1454	486	494	
	Exit 115	OFF Ramp to CTH CS	659		1188	194	190	109
	Exit 115	ON Ramp from CTH CS	830		2017	399	447	
	Exit 119	OFF Ramp to STH 60	896		1816	281	279	116
	Exit 119	ON Ramp from STH 60	1112		2197	451	451	
Sub Totals			92869	163	108243	4328	4335	893

NOTE: Preformed Tape Lane Lines To Remain
 IH 39 NB Mile Marker 123.8 - 115.6
 IH 39 SB Mile Marker 115.6 - 123.8

PAVEMENT MARKING EPOXY (INTERSTATE LOCATIONS)

MONROE COUNTY (TOMAH AREA)

HIGHWAY	LOCATION (From)	LOCATION (To)	646.1020				646.3020			646.6120
			4-INCH EDGE LINE YELLOW L.F.	4-INCH LANE LINE WHITE L.F.	4-INCH MINI DASHES WHITE L.F.	4-INCH EDGE LINE WHITE L.F.	8-INCH CHANNELIZING WHITE (MAINLINE) L.F.	8-INCH CHANNELIZING WHITE (RAMP) L.F.	8-INCH CHANNELIZING WHITE (ISLAND GORE) L.F.	18-INCH STOP LINE WHITE L.F.
IH 90 EB	Mile Marker 39.2 (0.64 miles east of CTH M)	Mile 43.5 (Exit 43, east end of USH 12 bridge)	12116	3075		11136				
	Exit 41 at STH 131	Off Ramp	779		78	1509	402	396	88	
	Exit 41 at STH 131	Off Ramp (Right turn lane)								38
	Exit 41 at STH 131	Off Ramp (Left turn lane)								18
	Exit 41 at STH 131	On Ramp	889			2497	873	779		
	Exit 43 at USH 12	Off Ramp	643		172	911	613	609		25
IH 90 WB	Mile 43.5 (Exit 43, east end of USH 12 bridge)	Mile Marker 39.2 (0.64 miles east of CTH M)	15420	3856		12686				
	Exit 43 at USH 12	On Ramp	508			1813	613	609	80	
	Exit 41 at STH 131	Off Ramp	903		44	1455	387	387	60	
	Exit 41 at STH 131	Off Ramp (Right turn lane)								37
	Exit 41 at STH 131	Off Ramp (Left turn lane)								20
	Exit 41 at STH 131	On Ramp	912			2449	990	870		
Sub Totals			32170	6931	294	34456	3878	3650	228	138

PAVEMENT MARKING EPOXY (INTERSTATE LOCATIONS)

MONROE COUNTY (SPARTA AREA)

HIGHWAY	LOCATION (From)	LOCATION (To)	646.1020				646.3020			646.6120
			4-INCH EDGE LINE YELLOW L.F.	4-INCH LANE LINE WHITE L.F.	4-INCH MINI DASHES WHITE L.F.	4-INCH EDGE LINE WHITE L.F.	8-INCH CHANNELIZING WHITE (MAINLINE) L.F.	8-INCH CHANNELIZING WHITE (RAMP) L.F.	8-INCH CHANNELIZING WHITE (ISLAND GORE) L.F.	18-INCH STOP LINE WHITE L.F.
IH 90 EB	Mile Marker 20.5 (Monroe County Line)	Mile Marker 28.9 (0.57 miles east of Exit 28, STH 16)	44481	11120		39099				
	Exit 25 at STH 27	Off Ramp	1046		39	1587	370	370	100	
	Exit 25 at STH 27	Off Ramp (Right turn lane)								22
	Exit 25 at STH 27	Off Ramp (Left turn lane)								18
	Exit 25 at STH 27	On Ramp	1197			2595	746	746		
IH 90 WB	Exit 28 at STH 16	Off Ramp	1456		45	1948	350	350	112	
	Exit 28 to STH 16	Off Ramp (Right turn lane)								15
	Exit 28 at STH 16	Off Ramp (Left turn lane)								44
	Exit 28 at STH 16	On Ramp	1133			2404	862	862		
IH 90 WB	Mile Marker 28.9 (0.57 miles east of Exit 28, STH 16)	Mile Marker 20.5 (Monroe County Line)	44526	11132		38352				
	Exit 28 at STH 16	Off Ramp	1301		39	1896	376	376	124	46
	Exit 28 at STH 16	Off Ramp (Right turn lane)								15
	Exit 28 at STH 16	Off Ramp (Left turn lane)								
	Exit 28 at STH 16	On Ramp	1211			2517	854	854		
IH 90 WB	Exit 25 at STH 27	Off Ramp	1010		39	1538	348	348	84	
	Exit 25 at STH 27	Off Ramp (Right turn lane)								25
	Exit 25 at STH 27	Off Ramp (Left turn lane)								17
	Exit 25 at STH 27	On Ramp	1105			2501	846	846		
	Mile 22 Rest Area (West of Sparta)	Off Ramp	1684			2959	375	375	380	
	Mile 22 Rest Area (West of Sparta)	On Ramp	791			2213	821	821	226	
Sub Totals			100941	22252	162	99609	5948	5948	1026	202

PROJECT NO: 1009-12-94

HWY: IH 90

COUNTY: MONROE

MISCELLANEOUS QUANTITIES

SHEET NO:

E

FILE NAME :

PLOT DATE :

PLOT BY :

PLOT NAME :

ORG DATE :

ORIGINATOR : DIST _

PLOT SCALE : 1:1

PAVEMENT MARKING EPOXY (INTERSTATE LOCATIONS)

MONROE COUNTY (WARRENS - TOMAH)

HIGHWAY	LOCATION (From)	LOCATION (To)	646.1020		646.3020		646.6120
			4-INCH EDGE LINE YELLOW L.F.	4-INCH EDGE LINE WHITE L.F.	8-INCH CHANNELIZING WHITE (MAINLINE) L.F.	8-INCH CHANNELIZING WHITE (RAMP) L.F.	18-INCH STOP LINE WHITE L.F.
IH-94 EB	Mile Marker 137.1 (1.26 miles east of Exit 135, CTH EW) (Warrens) Exit 143 at USH 12	Mile 143.4 (0.19 miles east of Exit 143, USH 12) (Tomah) Off Ramp	33528 934	32947 1814	610	610	30
IH-94 WB	Mile Marker 143.3 (USH 12) (Tomah) Exit 143 at USH 12	Mile Marker 137.1 (1.26 miles east of Exit 135, CTH EW) (Warrens) On Ramp	32525 688	31205 1941	710	616	
Sub Totals			67675	67907	1320	1226	30

NOTE: CONTRAST LANE LINES TO REMAIN

PAVEMENT MARKING EPOXY (INTERSTATE LOCATIONS)

LA CROSSE COUNTY (LA CROSSE AREA)

HIGHWAY	LOCATION (From)	LOCATION (To)	646.1020			646.3020			646.5020		646.5120	646.6120
			4-INCH EDGE LINE YELLOW L.F.	4-INCH LANE LINE WHITE L.F.	4-INCH EDGE LINE WHITE L.F.	8-INCH CHANNELIZING WHITE (MAINLINE) L.F.	8-INCH CHANNELIZING WHITE (RAMP) L.F.	8-INCH CHANNELIZING WHITE (ISLAND GORE) L.F.	ARROWS TYPE 2 WHITE EACH	ARROWS TYPE 3 WHITE EACH	WORDS "ONLY" WHITE EACH	18-INCH STOP LINE WHITE L.F.
IH-90 EB	East end of the Mississippi River Bridge (La Crosse)	0.5 Miles east of Exit 5, STH 16	32331	1188	19401							
	Mile 1 Rest Area (La Crosse)	Off Ramp	624		1679							
	Mile 1 Rest Area (La Crosse)	On Ramp	624		1727							
	Exit 2 at CTH B	Off Ramp	845		1820							26
	Exit 2 at CTH B	Off Ramp (Right turn lane)										19
IH-90 WB	Exit 2 at CTH B	Off Ramp (Left turn lane)										
	Exit 2 at CTH B	On Ramp (Loop ramp)	913		1687							
	Exit 5 at STH 16	Off Ramp	1200	538	1951	698	581					
	Exit 5 at STH 16 (8-Inch white next to median)	Off Ramp (Right turn lanes)					110					56
IH-90 WB	Exit 5 at STH 16	Off Ramp (Left turn lanes)						604	4	2	4	24
	Exit 5 at STH 16	On Ramp	1169		2764	910	907	604	2	2	2	
	0.5 Miles east of Exit 5, STH 16 La Crosse	East end of the Mississippi River Bridge (La Crosse)	32826	1200	20380							
	Exit 5 at STH 16	Off Ramp	1098	138	1603	401	401					
	Exit 5 at STH 16	Off Ramp (Right turn lane)					417		2		2	28
	Exit 5 at STH 16	Off Ramp (Left turn lanes)						87	4		4	24
	Exit 5 at STH 16 (16 EB to 90 WB)	On Ramp (Loop ramp)	801		2735	760	760					
	Exit 5 at STH 16 (16 WB to 90 WB)	On Ramp	1917		3935	1485	1485					
	Exit 2 at CTH B	Off Ramp (Loop ramp)	802		1782							
	Exit 2 at CTH B	Off Ramp (Right turn lane)										21
Exit 2 at CTH B	Off Ramp (Left turn lane)										17	
Exit 2 at CTH B	On Ramp	1086		2321								
Sub Totals			76236	3064	63785	4254	4661	1295	12	2	12	215

NOTE: CONTRAST LANE LINES & 8-INCH TAPE AT GORES TO REMAIN

PROJECT NO: 1009-12-94

HWY: IH 90 & IH 94

COUNTY: MONROE & LA CROSSE

MISCELLANEOUS QUANTITIES

SHEET NO:

E

FILE NAME :

PLOT DATE :

PLOT BY :

PLOT NAME :

ORG DATE :

ORIGINATOR : DIST _

PLOT SCALE : 1:1

PAVEMENT MARKING EPOXY (UNDIVIDED HIGHWAYS)			646.1020				646.3020		646.5020	646.5120	646.6120	646.7120		646.8120	646.8220
VERNON & RICHLAND COUNTIES (READSTOWN - RICHLAND CENTER)			4-INCH EDGELINE YELLOW L.F.	4-INCH CENTERLINE YELLOW L.F.	4-INCH LANELINE WHITE L.F.	4-INCH EDGELINE WHITE L.F.	8-INCH CHANNELIZING WHITE (MAINLINE) L.F.	8-INCH CHANNELIZING WHITE (ISLAND GORE) L.F.	ARROWS TYPE 2 WHITE EACH	WORDS "ONLY" WHITE EACH	18-INCH STOP LINE WHITE L.F.	12-INCH DIAGONAL YELLOW L.F.	12-INCH DIAGONAL WHITE L.F.	CURB YELLOW L.F.	ISLAND NOSE YELLOW EACH
HIGHWAY	LOCATION (From)	LOCATION (To)													
USH 14 EB & WB	STH 131, North junction (Readstown)	Vernon / Richland County Line		33081	3819	62088	213								
USH 14 EB	CTH X	Right Turn Lane					210								
USH 14 EB & WB	Vernon / Richland County Line	Congress St (Richland Center)	25555	112979	6415	187566									
USH 14 EB	Kokamonjo Rd	Right Turn Lane					191				28				
USH 14 EB	Church Dr	Right Turn Lane					190				33				
USH 14 EB	CTH U / CTH E	Right Turn Lane					202				31				
USH 14 EB	Coppernoll Hollow Dr	Right Turn Lane					100				35				
USH 14 EB	CTH KK	Right Turn Lane					185				32				
USH 14 EB	STH 171	Left Turn Lane & Median					227		2	2		76		10	1
USH 14 EB	STH 171	Right Turn Lane					378		2	2					
STH 171 EB	USH 14 EB	Intersection Island									32				
USH 14 EB	Start of divided highway (1.0 mile west of CTH ZZ)	0.82 miles west of CTH ZZ										399			
USH 14 EB	CTH ZZ NB	Left & Right turn lanes					255				25				
USH 14 EB	Tuckaway Valley Rd	Left Turn Lane					126								
USH 14 EB	400' east of Hive Dr	Median					120						10	1	
USH 14 EB	UW Richland Center (West entrance)	Left turn lane					125		2				10	1	
USH 14 WB	UW Richland Center (East entrance)	Right Turn Lane					50		1						
USH 14 WB	350 Feet East of UW Richland Center (West entrance)	Median												10	1
USH 14 WB	UW Richland Center (West entrance)	Left & Right turn lanes					125		2					10	1
USH 14 WB	Hive Dr	Gore for right turn lane						500					30		
Hive Dr	USH 14 WB	Left & Right turn lanes									28				
USH 14 WB	Covered Bridge Dr	Right turn lane					102								
USH 14 WB	Start of divided highway (1.11 miles east of CTH ZZ)	1.29 Miles East of CTH ZZ										317			
USH 14 WB	Tuckaway Valley Rd	Right turn lane					96								
USH 14 WB	CTH ZZ SB	Left & Right turn lanes					264				25				
USH 14 WB	CTH Z						93								
USH 14 WB	1200 Feet East of STH 171	850 Feet East of STH 171										130			
USH 14 WB	STH 171 / CTH E	Left Turn Lane & Median					221		2	2					1
USH 14 WB	STH 171 / CTH E	Right Turn Lane					466		2	2					
CTH E SB	USH 14 WB	Intersection Island									58				
USH 14 WB	CTH G	Right Turn Lane					135				33				
USH 14 WB	CTH EE	Right Turn Lane					195				31				
USH 14 WB	CTH E / CTH U	Right Turn Lane					198				28				
USH 14 WB	High Point Rd	Right Turn Lane					200				26				
Sub Totals			25555	146060	10234	249654	4667	588	13	8	445	922	30	50	6

PAVEMENT MARKING EPOXY (UNDIVIDED HIGHWAYS)

LA CROSSE & VERNON COUNTIES

HIGHWAY	LOCATION (From)	LOCATION (To)	646.1020				646.3020	646.6120
			4-INCH EDGE LINE YELLOW L.F.	4-INCH CENTERLINE YELLOW L.F.	4-INCH LANE LINE WHITE L.F.	4-INCH EDGE LINE WHITE L.F.	8-INCH CHANNELIZING WHITE (MAINLINE) L.F.	18-INCH STOP LINE WHITE L.F.
USH 14 EB & WB	LA CROSSE & VERNON COUNTIES (LA CROSSE - COON VALLEY)							
	0.55 miles east of CTH YY (East of La Crosse)	0.12 miles east of STH 162 NB (Coon Valley)	5682	55934	5015	64873	516	22
	CTH M	Eastbound Left turn lane					206	
	CTH M	Westbound Right turn lane					508	
USH 53 NB & SB	East Hills Rd	Westbound Left turn lane					100	
	Wayside	Westbound Right turn lane					196	
	Brinkman Ridge Rd	Eastbound Right turn lane					200	18
	CTH N (Bypass lane, eastbound)	Westbound Right turn lane			63		205	
	Hohlfeld Rd	Eastbound Right turn lane					351	28
	STH 162 Southbound	Eastbound Right turn lane					326	26
USH 53 NB & SB	LA CROSSE COUNTY (HOLMEN AREA)							
	211' South of OLD 93 Rd (End of 4-lane, North of Holmen)	965' North of CTH T (Black River)		15794	313	34244	200	
	Old 93 Rd	Northbound Left turn lane					207	12
	Old 93 Rd	Southbound Right turn lane					109	11
	Cliff Shade Rd	Northbound Right turn lane					198	12
	Amsterdam Prairie Rd (Bypass lane, northbound)	Southbound Right turn lane			62		124	11
	Castle Mound Rd (Bypass lane, southbound)	Northbound Right turn lane			62		200	22
	Slyvestor Rd (Bypass lane, southbound)	Northbound Right turn lane			62		200	26
CTH T (Bypass lane, southbound)	Northbound Right turn lane			62				
Sub Totals			5682	71728	5702	99117	3846	188

PAVEMENT MARKING EPOXY (UNDIVIDED HIGHWAYS)

JUNEAU COUNTY (SHENNINGTON - NECEDAH)

HIGHWAY	LOCATION (AT)	LOCATION (DIRECTION)	646.1020				646.3020		646.5020 ARROWS TYPE 2 WHITE EACH	646.5120 WORDS "ONLY" WHITE EACH	646.5320 RAILROAD CROSSINGS WHITE EACH	646.6120 18-INCH STOP LINE WHITE L.F.	646.7420 6-INCH CROSSWALK WHITE L.F.
			4-INCH CENTERLINE NO PASSING YELLOW L.F.	4-INCH LANELINE WHITE L.F.	4-INCH MINI DASHES WHITE L.F.	4-INCH EDGE LINE WHITE L.F.	8-INCH CHANNELIZING WHITE (MAINLINE) L.F.	8-INCH CHANNELIZING WHITE (ISLAND GORE) L.F.					
STH 21 EB & WB	JUNEAU COUNTY (SHENNINGTON - NECEDAH)												
	0.32 miles west of CTH H (Monroe County Line)	Sheridan Street (Necedah)	18075		368	122726							
	CTH H	Westbound (Right turn lane)					200						
	CTH H (East junction)	Eastbound (Right turn lane)					190						
STH 21 EB & WB	Headquarters Road	CTH M					180						
		Westbound (Right turn lane)		62			205						
STH 21 EB & WB	Sheridan Street (Necedah)	East end Yellow River Bridge	2372										
STH 21 EB	STH 80	Eastbound (Ahead & Turn lanes)		62							24	52	
STH 21 EB	STH 80	Eastbound (Far side of Intersection)		50						2		48	
STH 21 WB	STH 80	Westbound (Ahead & Left turn lane)					117		2	1	24	52	
STH 21 WB	STH 80	Westbound (Far side of Intersection)										48	
STH 21 WB	STH 80	Westbound (Right turn lane)								1		34	
STH 80 NB	STH 21	Northbound (Ahead & Left turn lane)					130		2	1	24	52	
STH 80 NB	STH 21	NorthBound (Far side of Intersection)										48	
STH 80 NB	STH 21	Northbound (Right turn lane)										50	
STH 80 SB	STH 21	Southbound (Ahead & Left turn lane)					96		2		24	50	
STH 80 SB	STH 21	Southbound (Far side of Intersection)										52	
STH 80 SB	STH 21	Southbound (Right turn lane)										48	
Sub Totals			20447	174	368	122726	1118	159	6	2	3	96	534

PAVEMENT MARKING EPOXY (SPECIAL MARKINGS)

646.5420

JUNEAU & MONROE COUNTIES

AERIAL
ENFORCEMENT
BARS 24-INCH
WHITE
EACH

HIGHWAY	LOCATION (AT)	LOCATION	
JUNEAU COUNTY			
IH 90/94 EB	Mile Marker 73.6 - 74.1	East of Mauston	10
IH 90/94 WB	Mile Marker 77.8 - 77.3	West of Lyndon Station	10
MONROE COUNTY			
IH 90/94 EB	Mile Marker 46.9 - 47.4	East of Oakdale	10
IH 90/94 WB	Mile Marker 50.5 - 50.0	East of Oakdale	10
TOTAL			40

PAVEMENT MARKING EPOXY SUMMARY (LONG LINE)

HIGHWAY	COUNTY (LOCATION)	646.1020					646.3020		
		4-INCH EDGELINE YELLOW L.F.	4-INCH CENTERLINE NO PASSING YELLOW L.F.	4-INCH LANELINE WHITE L.F.	4-INCH MINI DASHES WHITE L.F.	4-INCH EDGELINE WHITE L.F.	8-INCH CHANNELIZING WHITE (MAINLINE) L.F.	8-INCH CHANNELIZING WHITE (RAMP) L.F.	8-INCH CHANNELIZING WHITE (ISLAND GORE) L.F.
IH 39 NB & SB	COLUMBIA COUNTY (DANE COUNTY LINE - CTH CS)	92869		163		108243	4328	4335	893
IH 90 EB & WB	MONROE COUNTY (TOMAH AREA)	32170		6931	294	34456	3878	3650	228
IH 90 EB & WB	MONROE COUNTY (SPARTA AREA)	100941		22252	162	99609	5948	5948	1026
IH 94 EB & WB	MONROE COUNTY (WARRENS - TOMAH)	67675				67907	1320	1226	1226
IH 90 EB & WB	LA CROSSE COUNTY (LA CROSSE AREA)	76236		3064		63785	4254	4661	1295
USH 14 EB & WB	VERNON & RICHLAND COUNTIES (READSTOWN - RICHALND CENTER)	25555	146060	10234		249654	4667		588
USH 14 & 53	LA CROSSE & VERNON COUNTIES	5682	71728	5702		99117	3846		
STH 21 EB & WB	JUNEAU COUNTY (SHENNINGTON - NECEDAH)		20447	174	368	122726	1118		159
TOTALS		401128	238235	48520	824	845497	29359	19820	5415
TOTAL 4-INCH						1534204	TOTAL 8-INCH		54594

PAVEMENT MARKING EPOXY SUMMARY (SPECIAL MARKINGS)

HIGHWAY	COUNTY	646.5020		646.5120	646.5320	646.6120	646.7120		646.7420	646.8120	646.8220
		ARROWS TYPE 2 WHITE EACH	ARROWS TYPE 3 WHITE EACH	WORDS "ONLY" WHITE EACH	RAILROAD CROSSINGS WHITE EACH	18-INCH STOP LINE WHITE L.F.	12-INCH DIAGONAL YELLOW L.F.	12-INCH DIAGONAL WHITE L.F.	6-INCH CROSSWALK WHITE L.F.	CURB YELLOW L.F.	ISLAND NOSE YELLOW EACH
IH 90 EB & WB	MONROE COUNTY (TOMAH AREA)					138					
IH 90 EB & WB	MONROE COUNTY (SPARTA AREA)					202					
IH 94 EB & WB	MONROE COUNTY (WARRENS - TOMAH)					30					
IH 90 EB & WB	LA CROSSE COUNTY (LA CROSSE AREA)	12	2	12		215					
USH 14 EB & WB	VERNON & RICHLAND COUNTIES (READSTOWN - RICHALND CENTER)	13		8		445	922	30		50	6
USH 14 & 53	LA CROSSE & VERNON COUNTIES					188					
STH 21 EB & WB	JUNEAU COUNTY (SHENNINGTON - NECEDAH)	6		2	3	96			534		
TOTALS		31	2	22	3	1314	922	30	534	50	6
TOTAL ARROWS			33	TOTAL DIAGONAL		952					

PROJECT NO: 1009-12-94

HWY: VARIOUS

COUNTY: VARIOUS

MISCELLANEOUS QUANTITIES

SHEET NO:

E

FILE NAME :

PLOT DATE :

PLOT BY :

PLOT NAME :

ORG DATE :

ORIGINATOR : DIST _

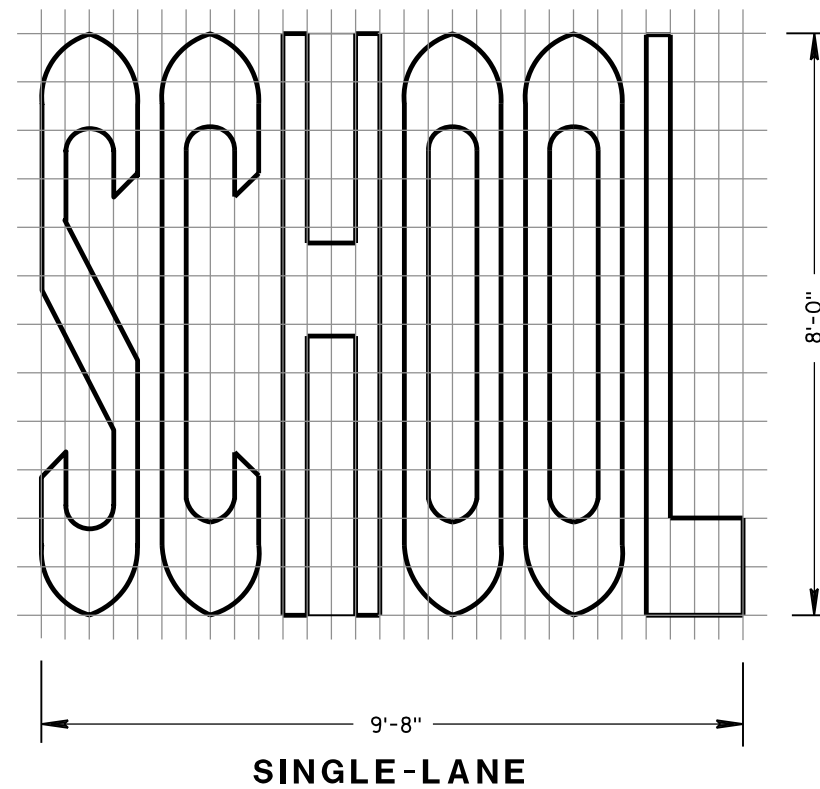
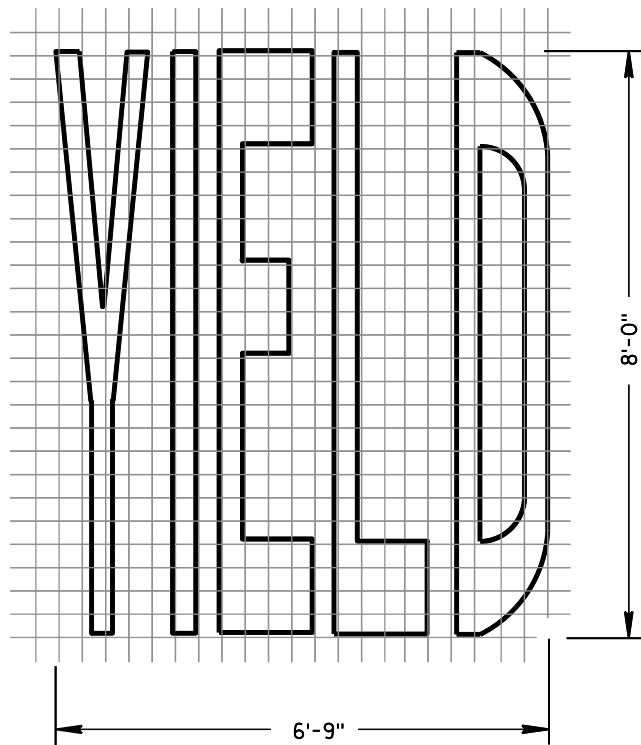
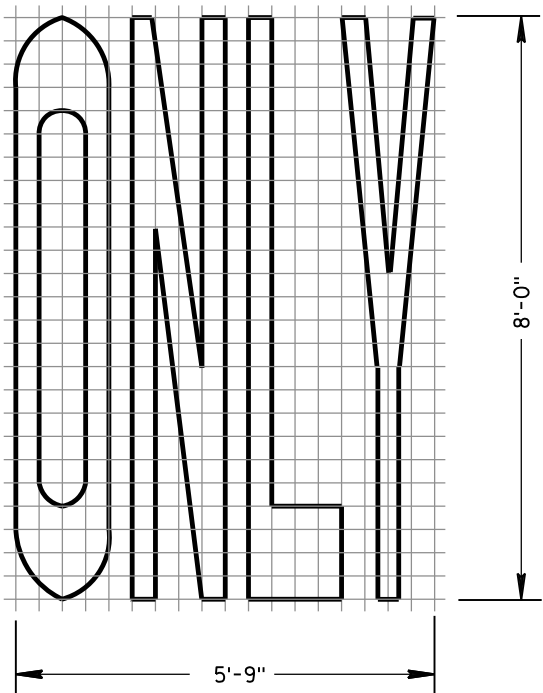
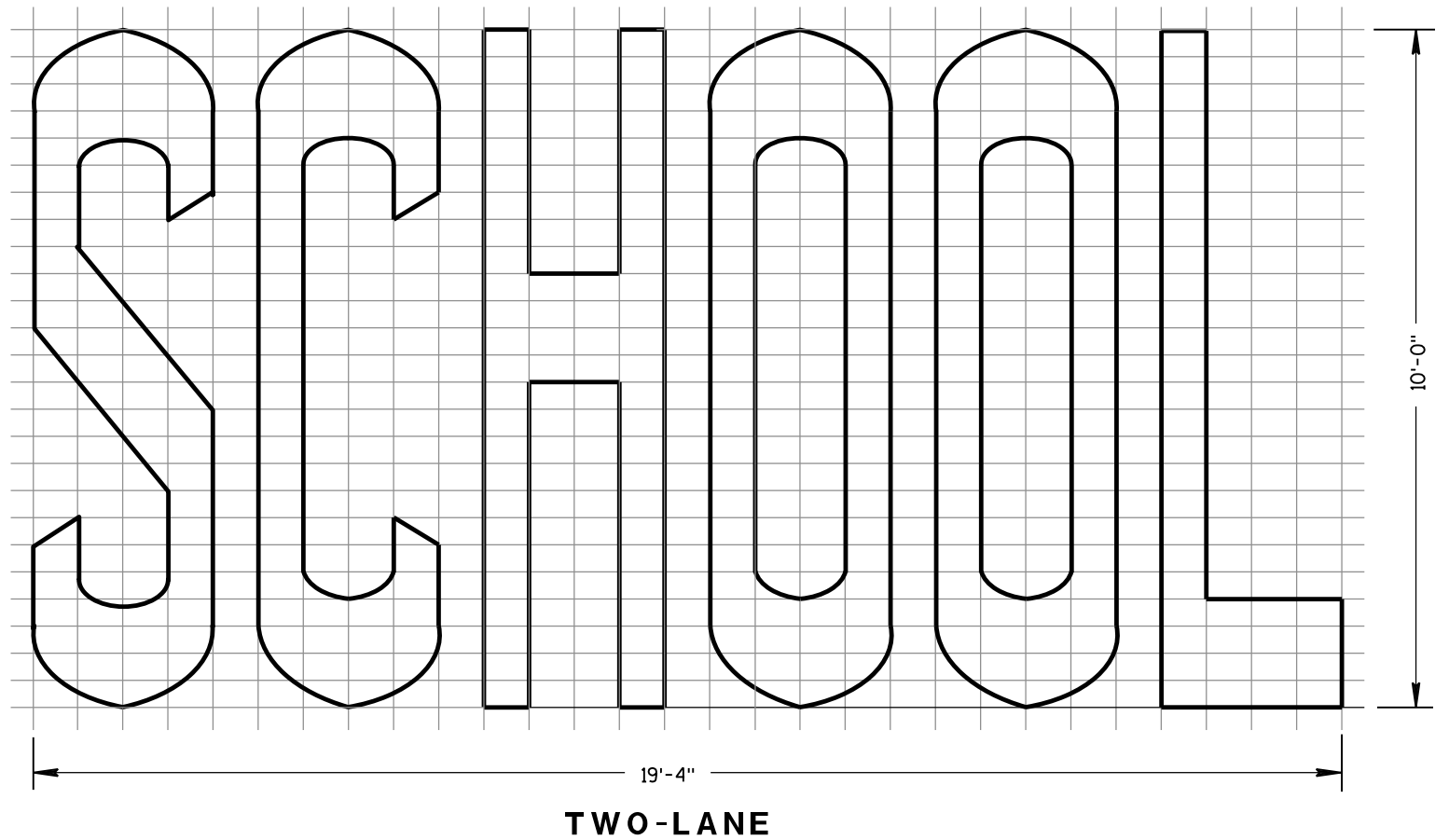
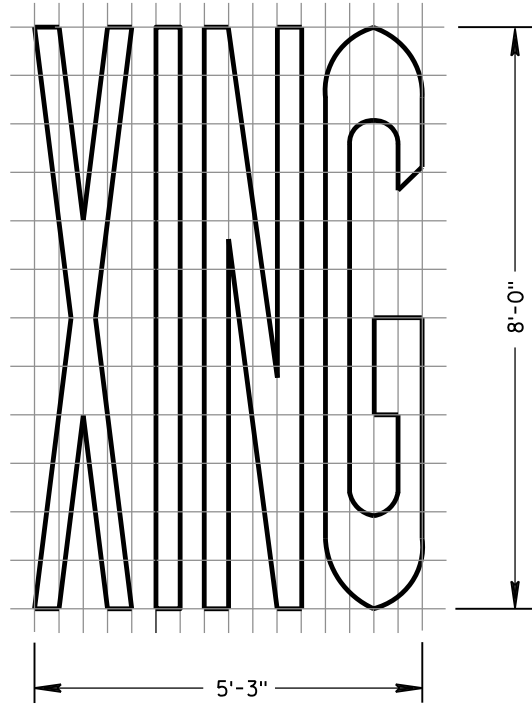
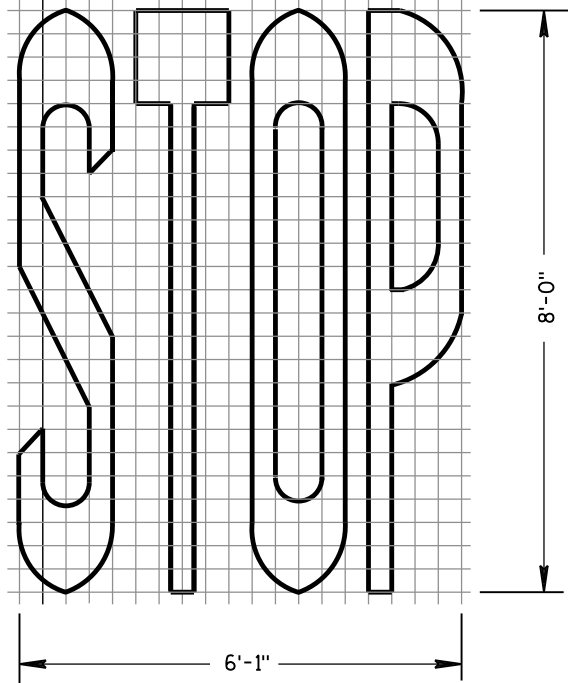
PLOT SCALE : 1:1

Standard Detail Drawing List

15C07-14B	PAVEMENT MARKING WORDS
15C07-14C	PAVEMENT MARKING ARROWS
15C08-19A	LONGITUDINAL MARKING (MAINLINE)
15C08-19C	PAVEMENT MARKING (TURN LANES)
15C09-11A	SIGNING AND PAVEMENT MARKING DETAILS FOR RAILROAD-HIGHWAY GRADE CROSSINGS
15C14-03	AERIAL ENFORCEMENT BARS PAVEMENT MARKING DETAILS
15C18-04	MEDIAN ISLAND MARKING
15C19-05A	MOVING PAVEMENT MARKING OPERATION TWO-LANE TWO-WAY ROADWAY
15C19-05B	MOVING PAVEMENT MARKING OPERATION MULTI-LANE UNDIVIDED ROADWAY
15C19-05C	MOVING PAVEMENT MARKING OPERATION MULTI-LANE DIVIDED ROADWAY
15C27-03A	DOUBLE ARROW WARNING SIGN PLACEMENT
15C27-03B	PAVEMENT MARKING (ISLANDS)
15C31-03A	PAVEMENT MARKING (RAMPS AND GORES)
15C31-03C	PAVEMENT MARKING FOR PARALLEL ON-RAMP AND PARALLEL OFF-RAMP
15C33-03	STOP LINE AND CROSSWALK PAVEMENT MARKING
15C35-03A	PAVEMENT MARKING (INTERSECTIONS)
15C35-03B	PAVEMENT MARKING AND SIGNING (CLIMBING LANE & PASSING LANE)
15C35-03C	PAVEMENT MARKING AND SIGNING (CLIMBING LANE & PASSING LANE)
15D38-02A	TEMPORARY TRAFFIC CONTROL SIGN MOUNTING
15D38-02B	ATTACHMENT OF SIGNS TO POSTS

GENERAL NOTES

DETAILS OF INSTALLATION, MATERIALS AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS AND APPLICABLE SPECIAL PROVISIONS.



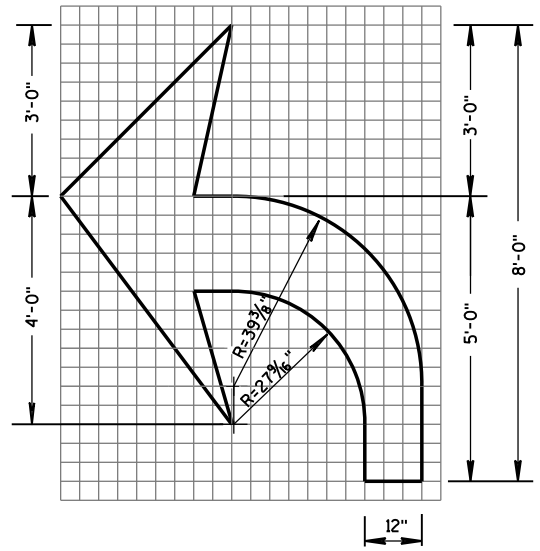
PAVEMENT MARKING WORDS

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

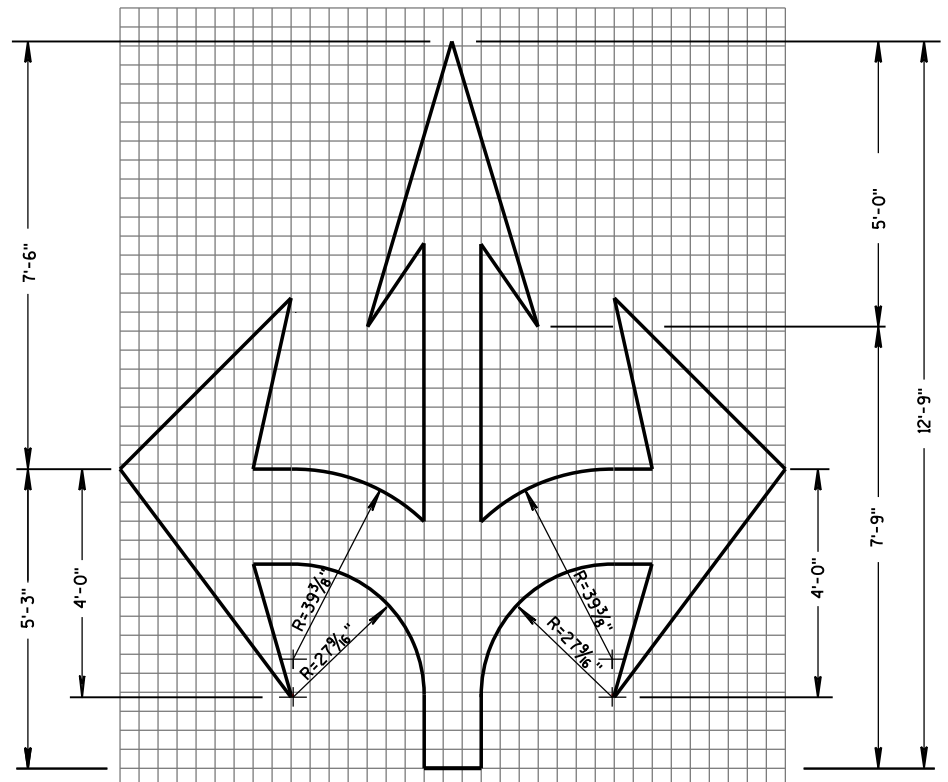
APPROVED
June 2017 /S/ Matthew R. Rauch
DATE STATE SIGNING AND MARKING ENGINEER
FHWA

6

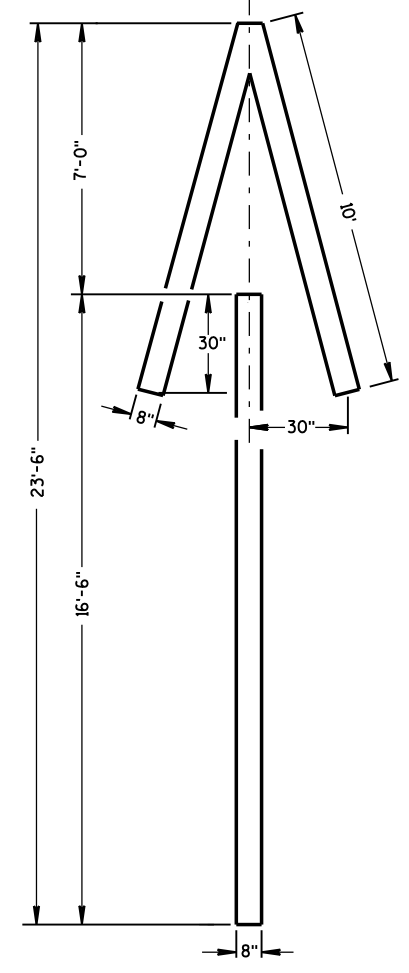
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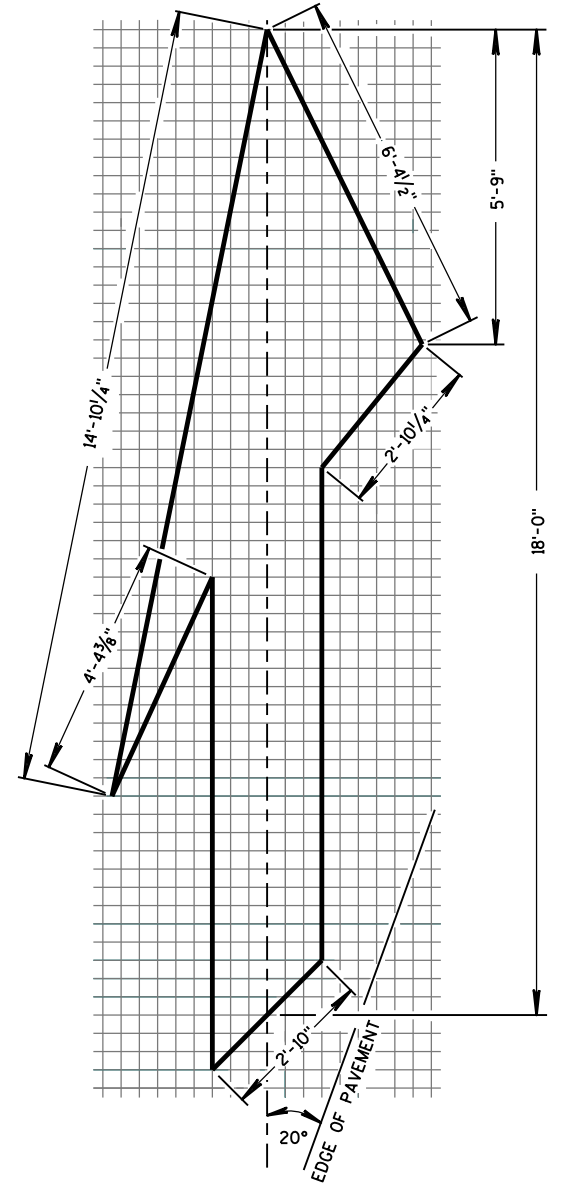
TYPE 2



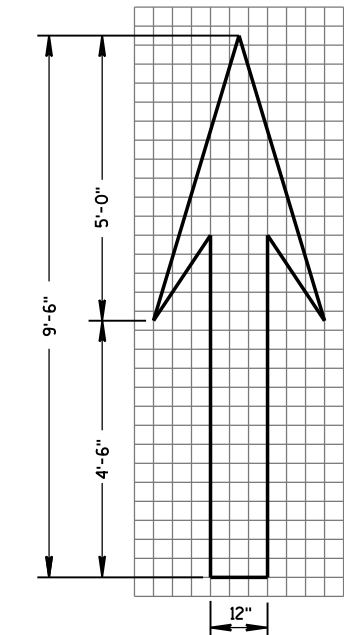
TYPE 6



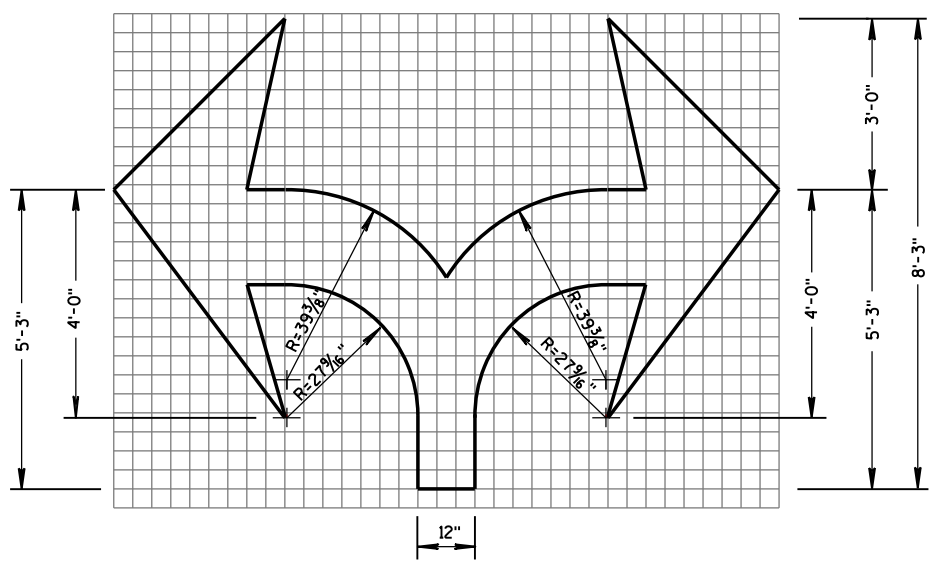
TYPE 4



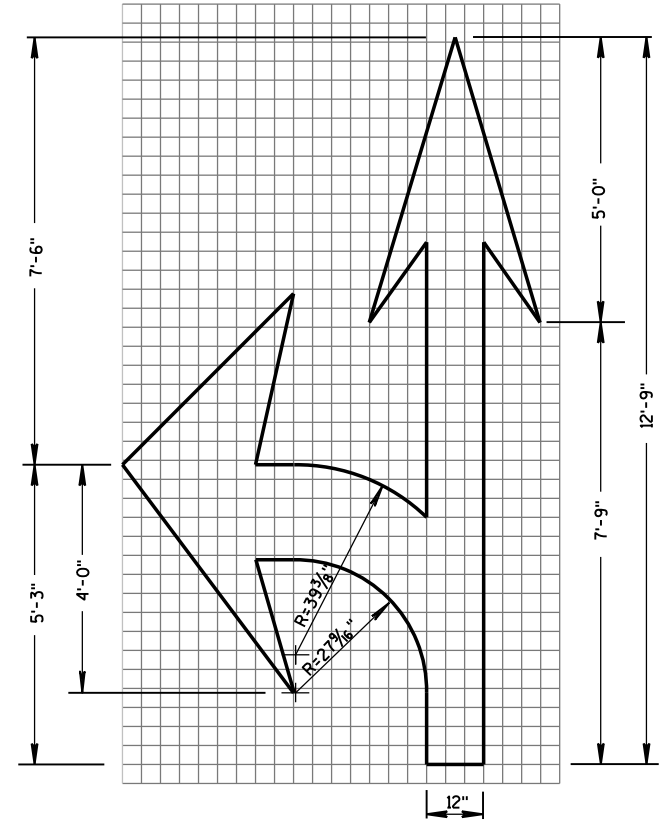
TYPE 5 LANE DROP ARROW



TYPE 1



TYPE 7

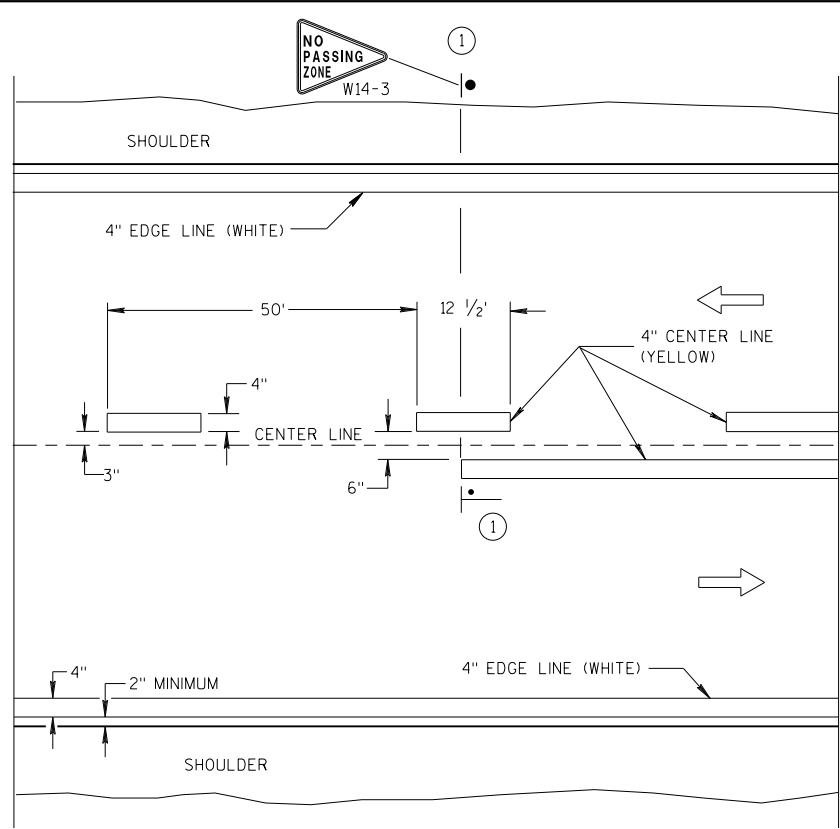


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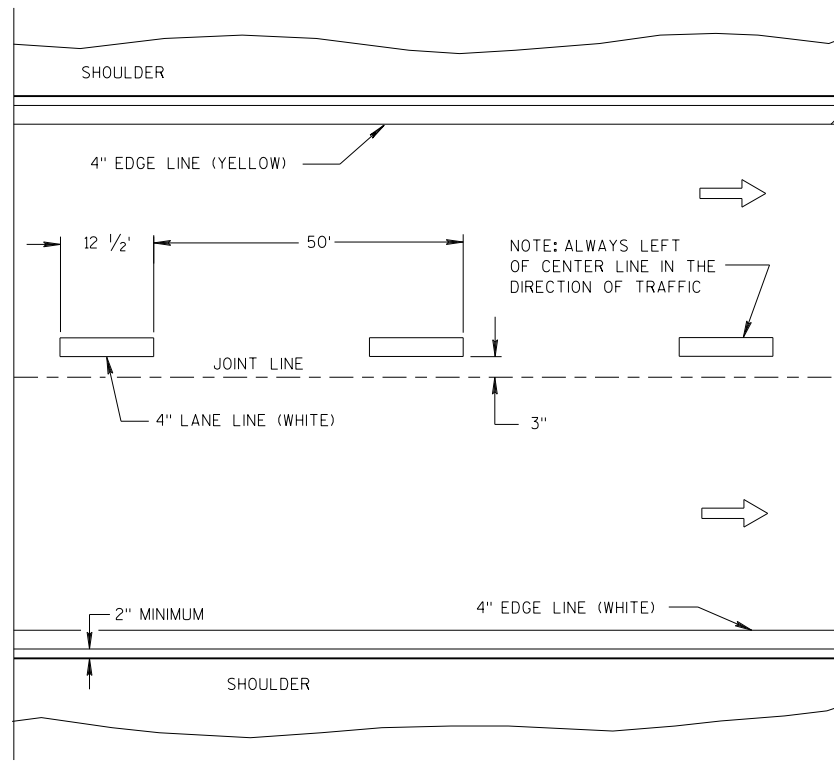
GENERAL NOTES

DETAILS OF INSTALLATION, MATERIALS AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS AND APPLICABLE SPECIAL PROVISIONS.

PAVEMENT MARKING ARROWS	
STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION	
APPROVED June 2017 DATE	/s/ Matthew R. Rauch STATE SIGNING AND MARKING ENGINEER
FHWA	

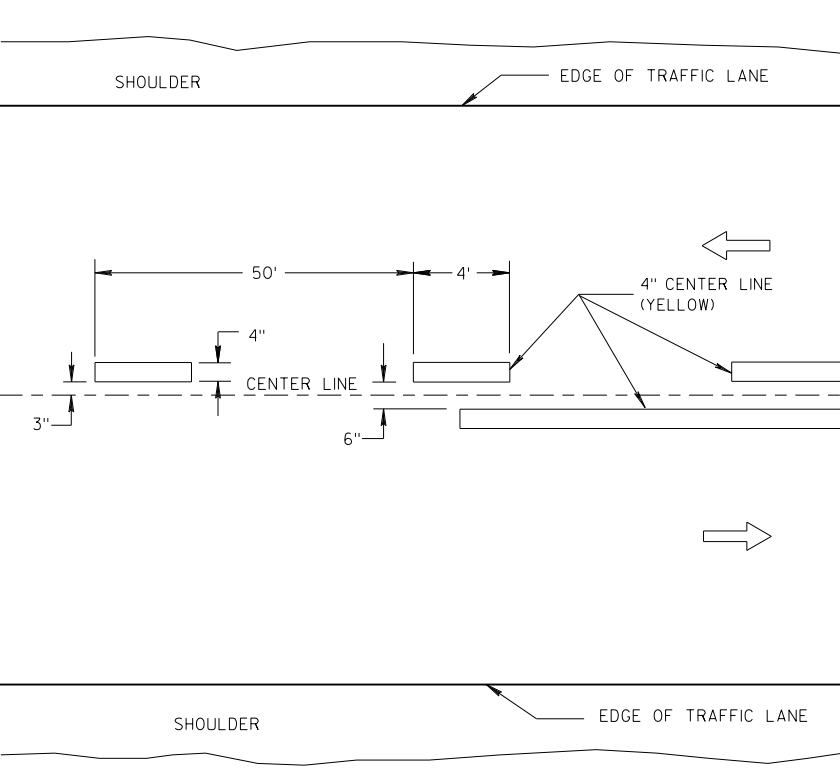


TWO WAY TRAFFIC

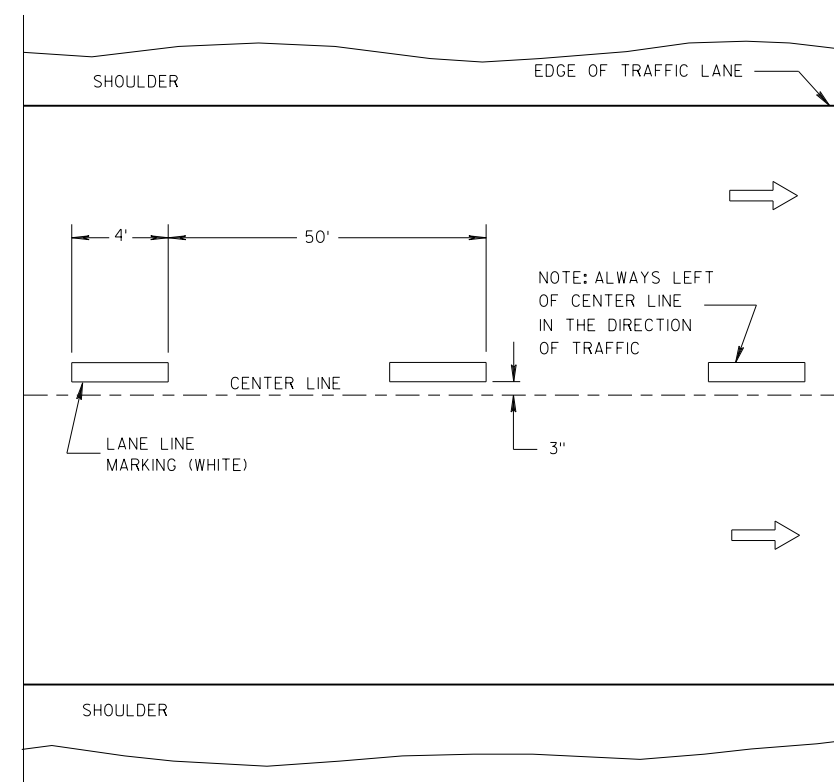


ONE WAY TRAFFIC

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 LOCATE THE NO PASSING ZONE W14-3 SIGN WITHIN 50 FEET OF THE "T" MARKING.

NOTE

ARROW SYMBOL (→) SHOWS DIRECTION OF TRAVEL

LEGEND

- "T" MARKING
- POST MOUNTED SIGN

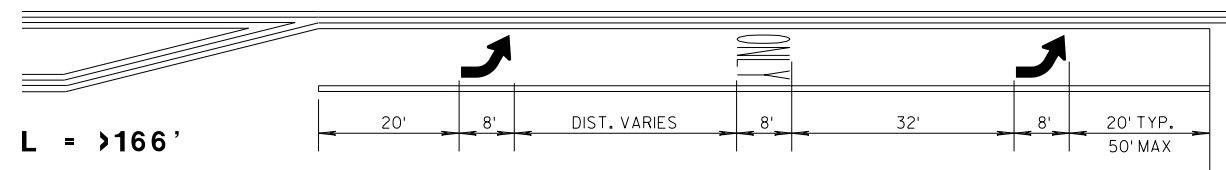
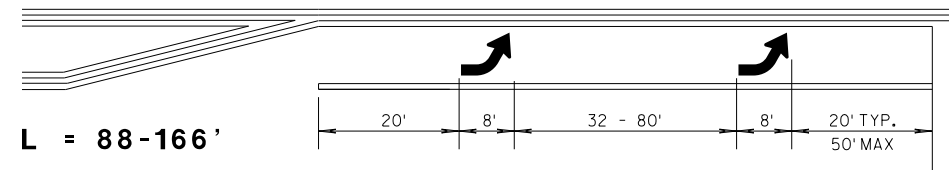
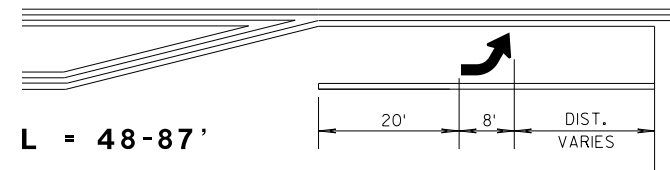
LONGITUDINAL MARKING (MAINLINE)

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
DATE 7/2018 /S/ Matthew R. Rauch
STATE SIGNING AND MARKING ENGINEER
FHWA

TURN LANE OPTIONS

LENGTH OF TURN BAY (L) OF 0-47' DOES NOT REQUIRE PAVEMENT MARKING ARROWS OR WORDS



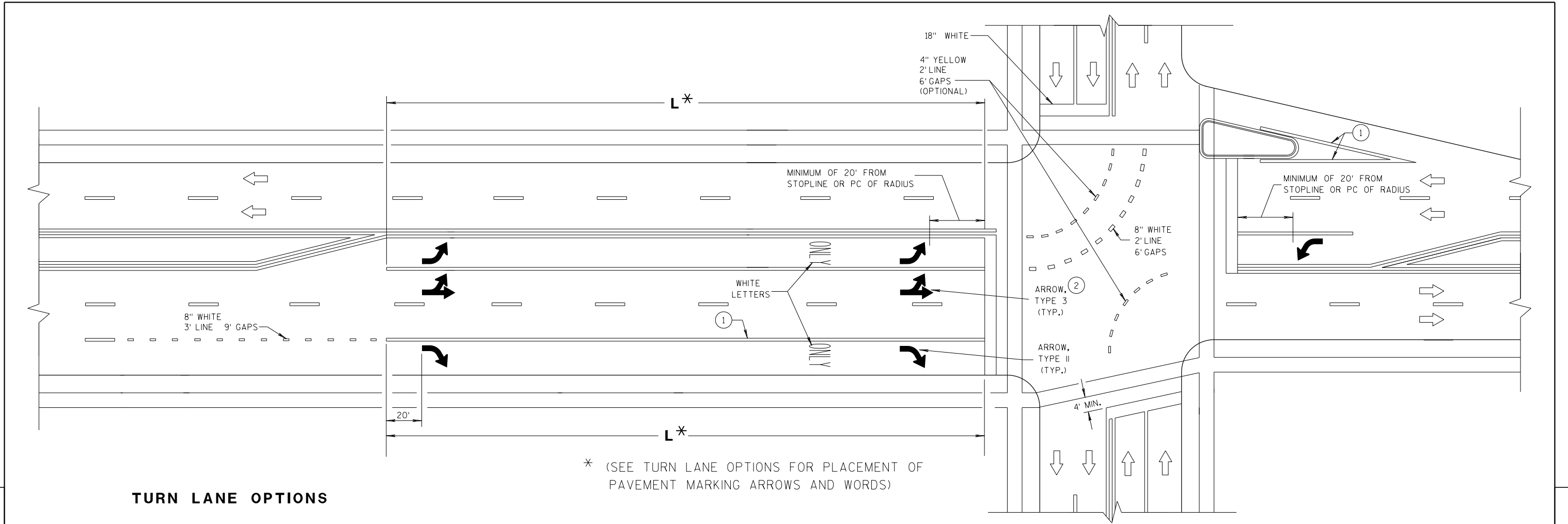
* (SEE TURN LANE OPTIONS FOR PLACEMENT OF PAVEMENT MARKING ARROWS AND WORDS)

GENERAL NOTES

- ① 8" WHITE
- ② QUANTITY AND LOCATION OF TYPE 3 ARROW ARE THE SAME AS THE TYPE II ARROWS IN THE ADJACENT TURN LANE. FOR TURN LANES WITH A PHYSICAL SEPARATION, THE ARROWS AND ONLY MARKING ARE ELIMINATED.

➔ DIRECTION OF TRAFFIC

L = LENGTH OF TURN BAY

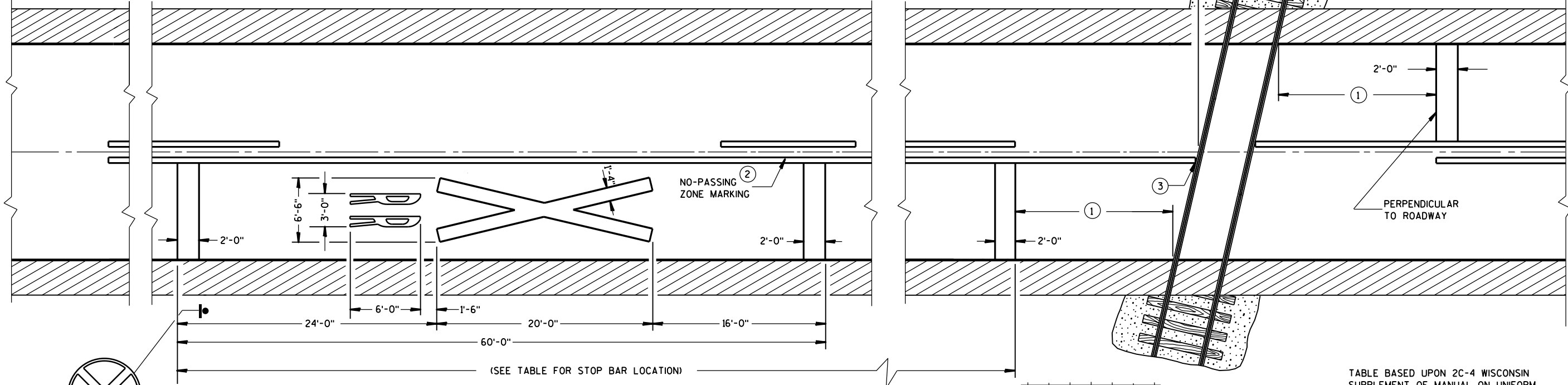


PAVEMENT MARKING (TURN LANES)
STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION



W14-3

500' MIN.



W10-1

PAVEMENT MARKING

GENERAL NOTES

DETAILS OF CONSTRUCTION, MATERIALS, AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS AND THE APPLICABLE SPECIAL PROVISIONS.

ON MULTI-LANE ROADS THE TRANSVERSE BANDS SHOULD EXTEND ACROSS ALL APPROACH LANES, AND INDIVIDUAL R X R SYMBOLS SHOULD BE USED IN EACH APPROACH LANE.

CENTER OR LANE LINES AND NO-PASSING ZONE MARKINGS SHOWN ON THIS DRAWING ARE REQUIRED AND PAID FOR UNDER OTHER ITEMS IN THE CONTRACT.

RETRACE EXISTING SYMBOL WHERE EXISTING SYMBOLS ARE PLACED.

- ① MINIMUM 8' FROM ANY RAILROAD WARNING DEVICES (SIGNALS, GATES, ETC.) OR 25' FROM THE NEAREST RAIL, WHICHEVER DISTANCE IS GREATER.
- ② 500' MINIMUM. MARKING LIMITS MAY BE EXTENDED AS DIRECTED BY THE ENGINEER TO MEET ADJACENT NO-PASSING ZONE MARKINGS.
- ③ FOR MULTIPLE TRACK CROSSINGS, THE BARRIER LINE SHALL EXTEND TO THE NEAR RAIL OF THE FURTHEST TRACK IN THE DIRECTION OF HIGHWAY TRAVEL.

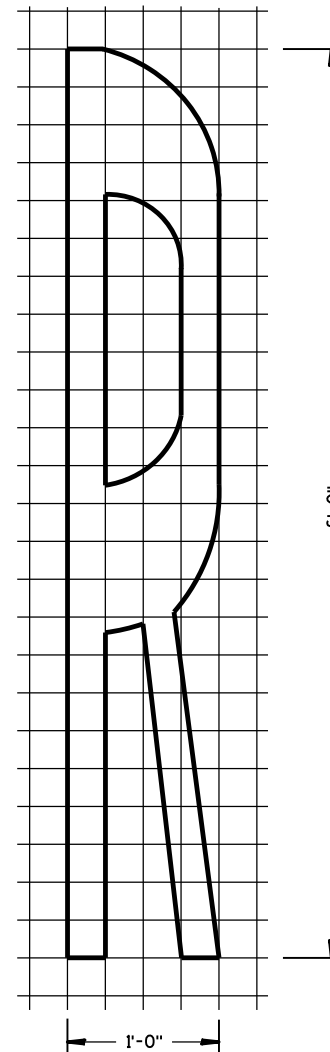


TABLE BASED UPON 2C-4 WISCONSIN SUPPLEMENT OF MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES.

Posted Speed (M.P.H.)	Dimension Range (Feet)
25	150* - 250
30	200* - 300
35	250* - 450
40	300* - 500
45	400* - 650
50	550* - 800
55	750* - 1000
60	1000* - 1250
65	1000* - 1250

* THE MINIMUM DISTANCES IN THE TABLE ARE DESIRABLE AND SHOULD BE USED. THE DISTANCES MAY BE INCREASED UP TO THE MAXIMUM TO ALLOW FOR FIELD CONDITIONS SUCH AS THE CLOSE PROXIMITY OF DRIVEWAYS, BRIDGES, SIDEROADS OR OTHER FEATURES THAT WOULD PROHIBIT THE MINIMUM DISTANCES FROM BEING USED.

SIGNING AND PAVEMENT MARKING DETAILS FOR RAILROAD-HIGHWAY GRADE CROSSINGS

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED

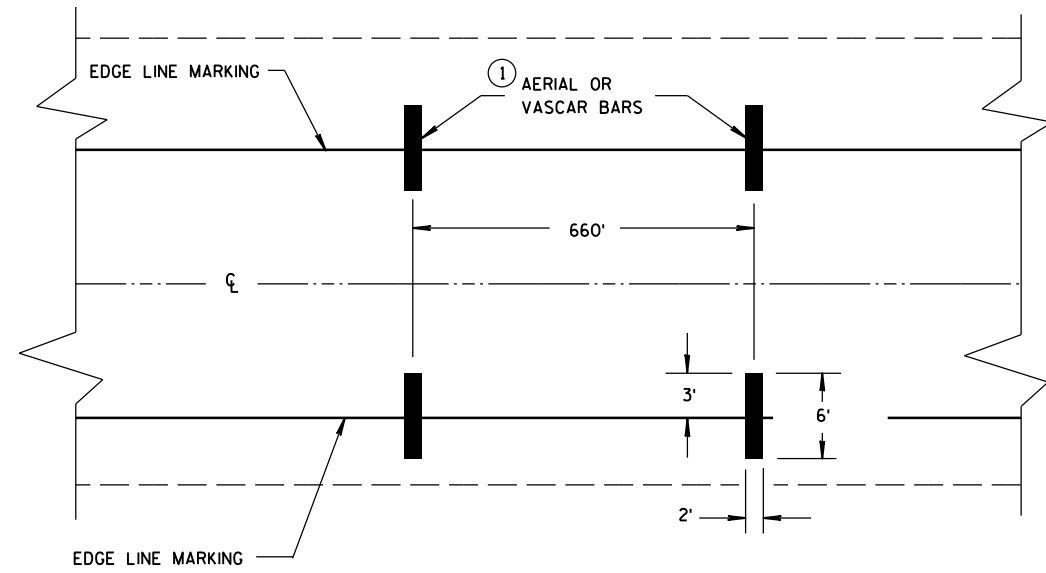
Sept., 2017 /S/ Matthew R. Rauch
DATE STATE SIGNING AND MARKING ENGINEER

FHWA

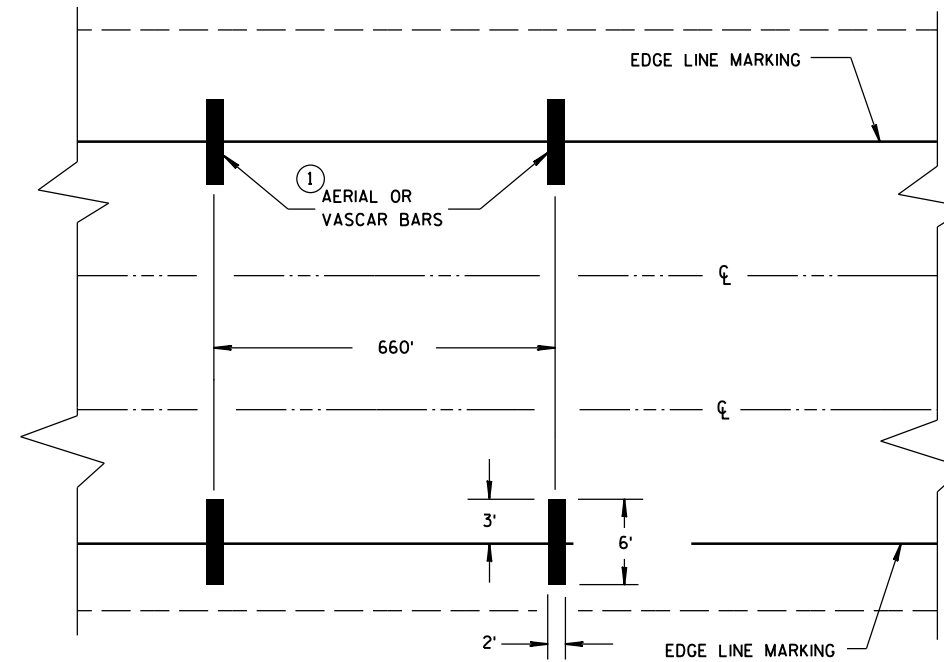
GENERAL NOTES

① PLACE TWO TO FIVE AERIAL OR VASCAR BARS AT 660 FOOT SPACING.

A CAR CAN BE PROVIDED BY THE WISCONSIN STATE PATROL FOR TRAFFIC CONTROL.



TYPICAL FOR TWO WAY OR ONE WAY TRAFFIC



TYPICAL FOR MULTILANE TRAFFIC

SPEED ENFORCEMENT ZONE WITH AERIAL OR VASCAR BARS

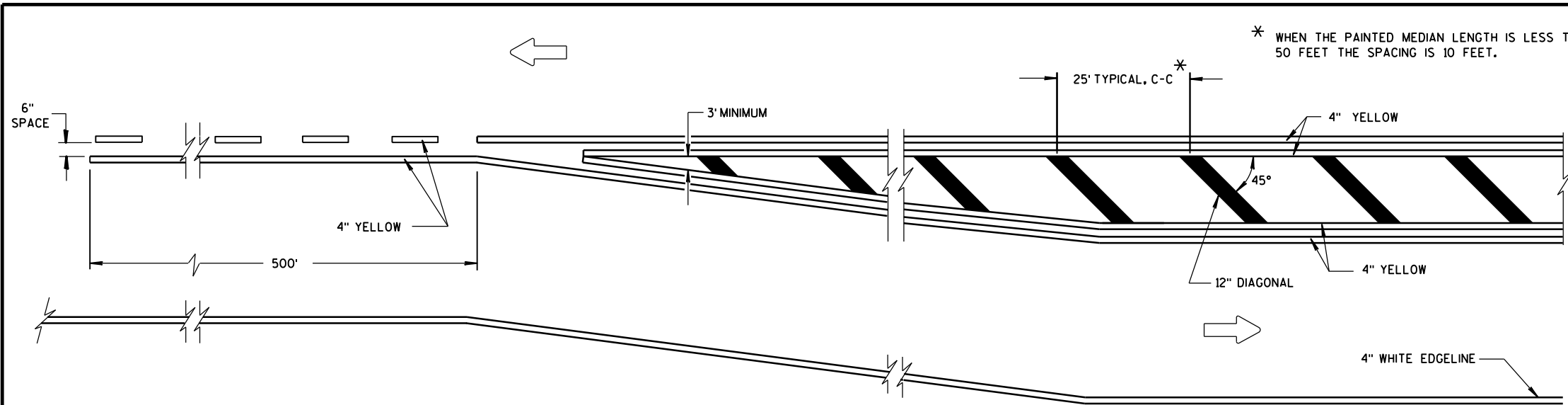
6

6

S.D.D. 15 C 14-3

S.D.D. 15 C 14-3

AERIAL ENFORCEMENT BARS PAVEMENT MARKING DETAILS	
STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION	
APPROVED June 2017 DATE	/S/ Matthew R. Rauch STATE SIGNING AND MARKING ENGINEER
FHWA	

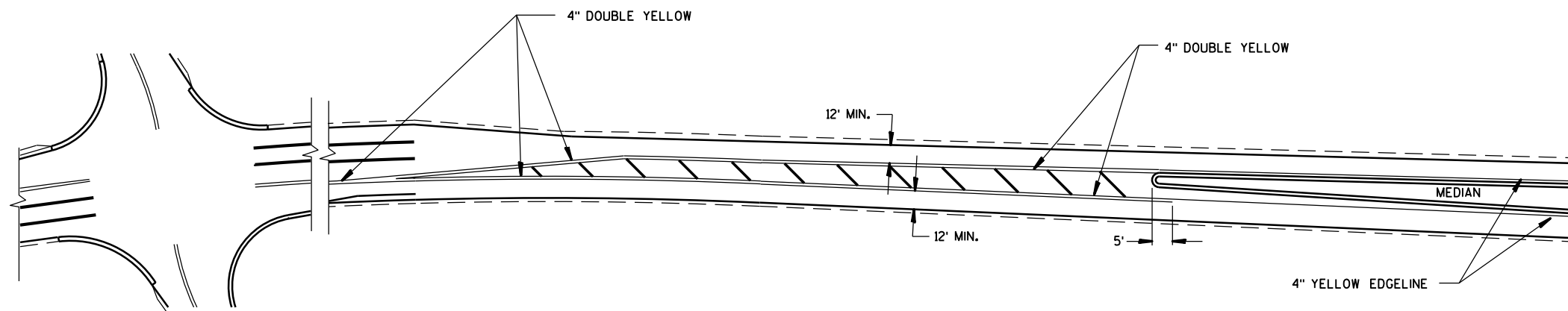


GENERAL NOTE

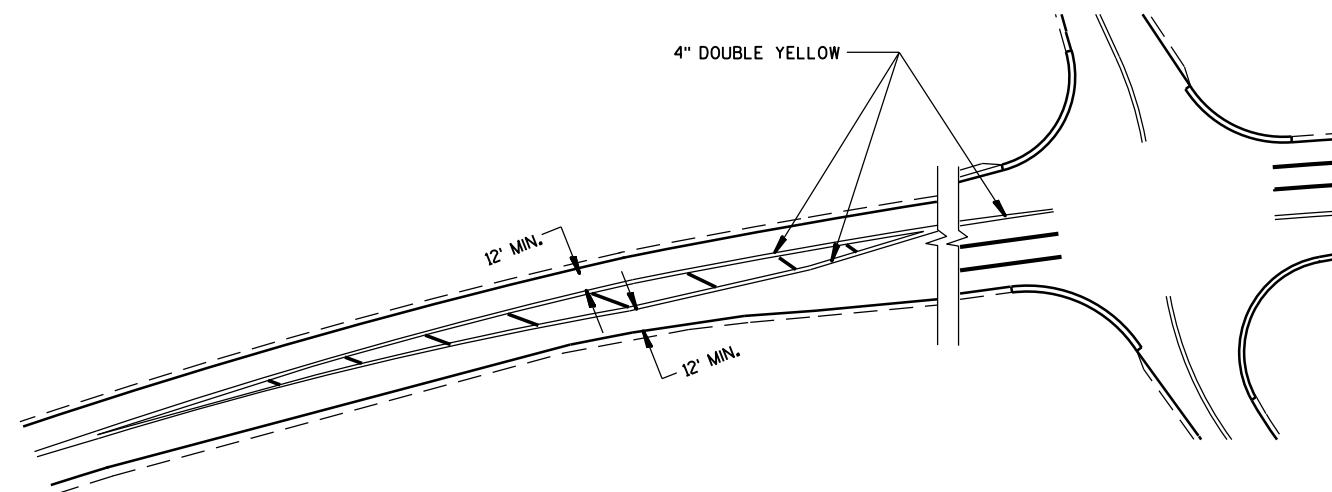
DIAGONALS ARE OPTIONAL WHEN PAINTED ISLAND IS LESS THAN 6 FEET AT WIDEST POINT.

➔ DIRECTION OF TRAVEL

MEDIAN ISLAND DETAIL



APPROACH MARKINGS FOR OTHER MEDIAN TYPES



NON APPROACH MARKINGS

6

6

S.D.D. 15 C 18-4

S.D.D. 15 C 18-4

MEDIAN ISLAND MARKING	
STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION	
APPROVED June 2017 DATE	/S/ Matthew Rauch STATE SIGNING AND MARKING ENGINEER
FHWA	

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.

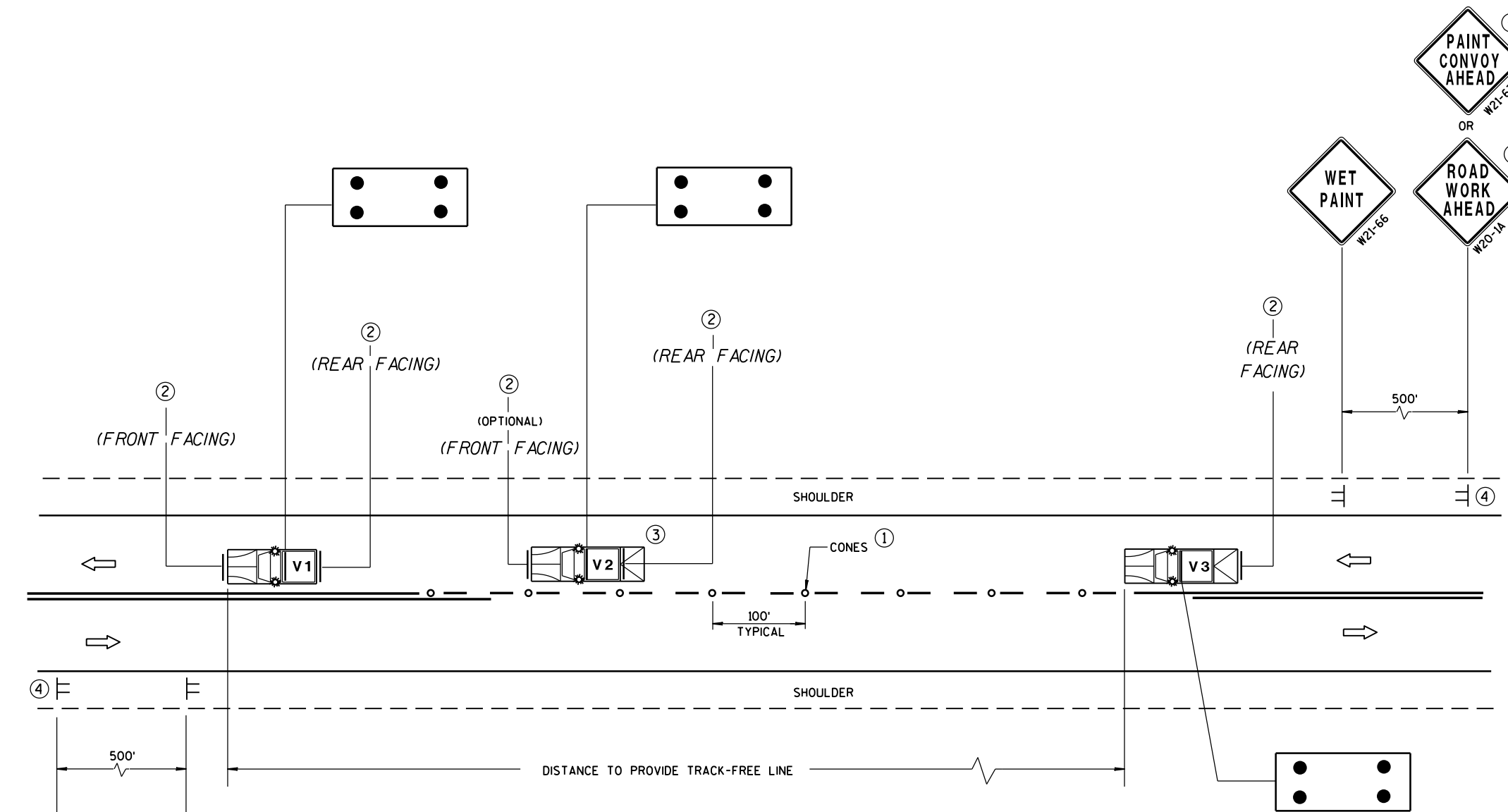
THIS DRAWING SHALL BE USED FOR CENTERLINE OR EDGELINE MARKING.

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 
W21-64 W21-64
- 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 OPERATIONS TWO-LANE TWO-WAY ROADWAY

MOVING PAVEMENT MARKING
OPERATION
TWO-LANE TWO-WAY ROADWAY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
 Sept., 2017 /S/ Andrew Heidtke
 DATE WORK ZONE ENGINEER
 FHWA

GENERAL NOTES

ALL VEHICLES SHALL BE EQUIPPED WITH TWO 360 DEGREE HIGH INTENSITY YELLOW FLASHING LIGHTS OR STROBE LIGHTS AND OPERATED WITH HEADLIGHTS TURNED ON.

ALL VEHICLES SHALL BE EQUIPPED WITH REAR FACING TYPE B OR C FLASHING ARROW PANEL. SIGNS PLACED ON VEHICLES MUST NOT OBSCURE THE ARROW PANEL.

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

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.

WHEN WORK ACTIVITY BLOCKS THE LEFT LANE, REVERSE TRAFFIC CONTROL.

WHEN A RAMP INTERSECTS THE FACILITY ON WHICH THE WORK IS BEING PERFORMED, PROVIDE ADDITIONAL TRAFFIC CONTROLS AS SPECIFIED IN THE CONTRACT OR AS APPROVED BY THE ENGINEER.

USE AN ATTENUATOR ON THE REAR MOST VEHICLE THAT BLOCKS ALL OR PART OF THE TRAFFIC LANE.

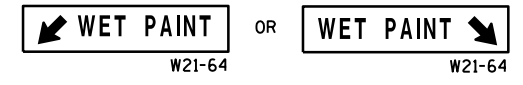
FOR EDGELINE MARKING OR IF CONES ARE NOT USED, POSITION THE REAR MOST SHADOW VEHICLE ON THE SHOULDER AS SHOWN IN THE MUTCD IF THE SHOULDER HAS ADEQUATE WIDTH.

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

THIS DRAWING SHALL BE USED FOR CENTERLINE OR EDGELINE OR LANELINE MARKING FOR MULTILANE UNDIVIDED ROADWAYS.

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.



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

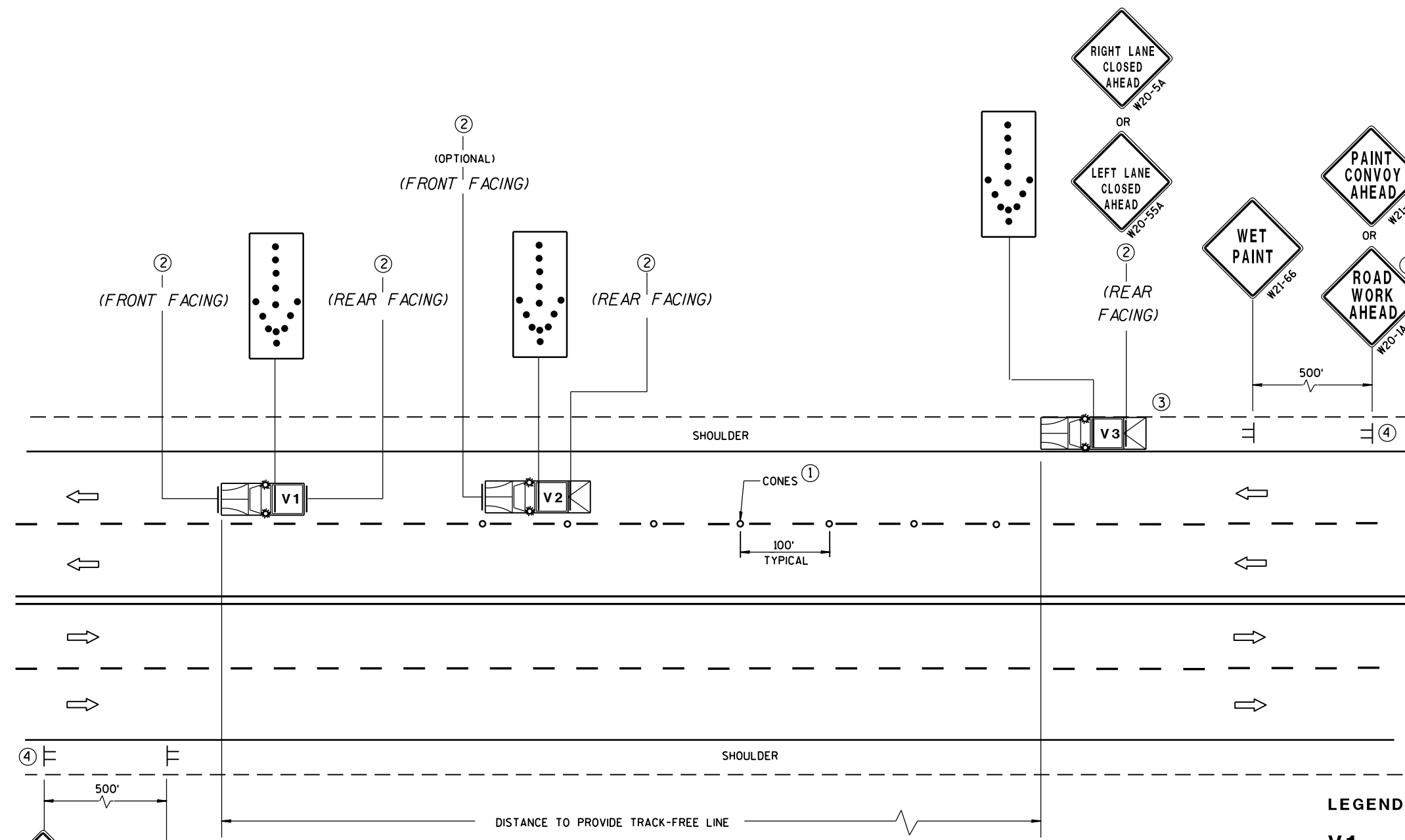
TMA TRUCK-MOUNTED ATTENUATOR

SIGN ON TEMPORARY SUPPORT

DIRECTION OF TRAFFIC

CONES

FLASHING ARROW PANEL (MERGE)



MOVING PAVEMENT MARKING OPERATIONS MULTI-LANE UNDIVIDED ROADWAY

MOVING PAVEMENT MARKING
OPERATION
MULTI-LANE UNDIVIDED ROADWAY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
Sept., 2017 /S/ Andrew Heidtke
DATE WORK ZONE ENGINEER
FHWA

GENERAL NOTES

ALL VEHICLES SHALL BE EQUIPPED WITH TWO 360 DEGREE HIGH INTENSITY YELLOW FLASHING LIGHTS OR STROBE LIGHTS AND OPERATED WITH HEADLIGHTS TURNED ON.
 ALL VEHICLES SHALL BE EQUIPPED WITH REAR FACING TYPE B OR C FLASHING ARROW PANEL. SIGNS PLACED ON VEHICLES MUST NOT OBSCURE THE ARROW PANEL.
 ALL SIGNS ARE 48" X 48" UNLESS OTHERWISE SPECIFIED.
 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.

WHEN WORK ACTIVITY BLOCKS THE LEFT LANE, REVERSE TRAFFIC CONTROL.



WHEN A RAMP INTERSECTS THE FACILITY ON WHICH THE WORK IS BEING PERFORMED, PROVIDE ADDITIONAL TRAFFIC CONTROLS AS SPECIFIED IN THE CONTRACT OR AS APPROVED BY THE ENGINEER.

USE AN ATTENUATOR ON THE REARMOST VEHICLE THAT BLOCKS ALL OR PART OF THE TRAFFIC LANE.






FOR EDGELINE MARKING OR IF CONES ARE NOT USED, POSITION THE REARMOST SHADOW VEHICLE ON THE SHOULDER AS SHOWN IN THE MUTCD IF THE SHOULDER HAS ADEQUATE WIDTH. USE DOUBLE ARROWS WHEN CONVOY IS IN CENTER LANE ONLY.

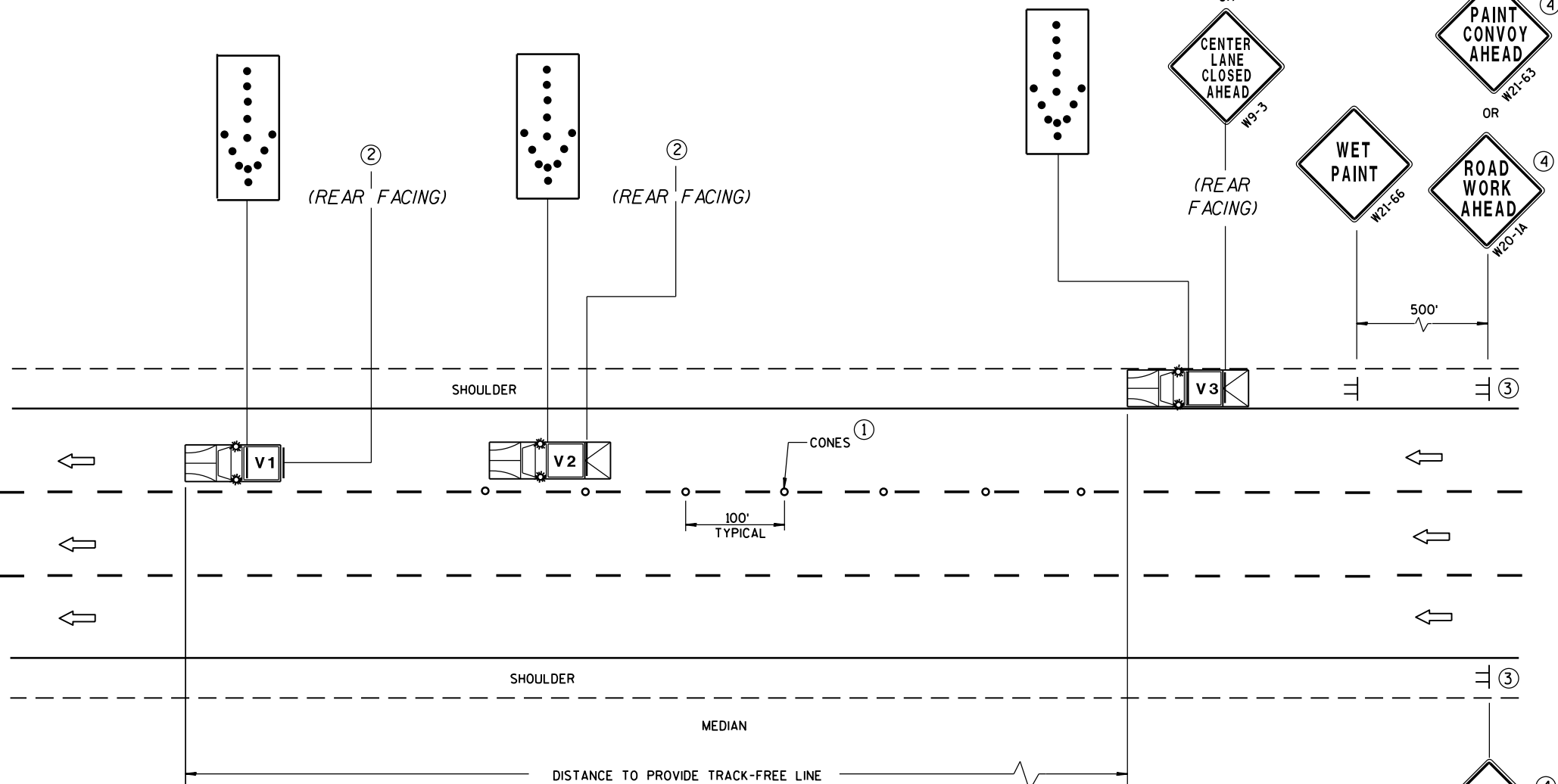
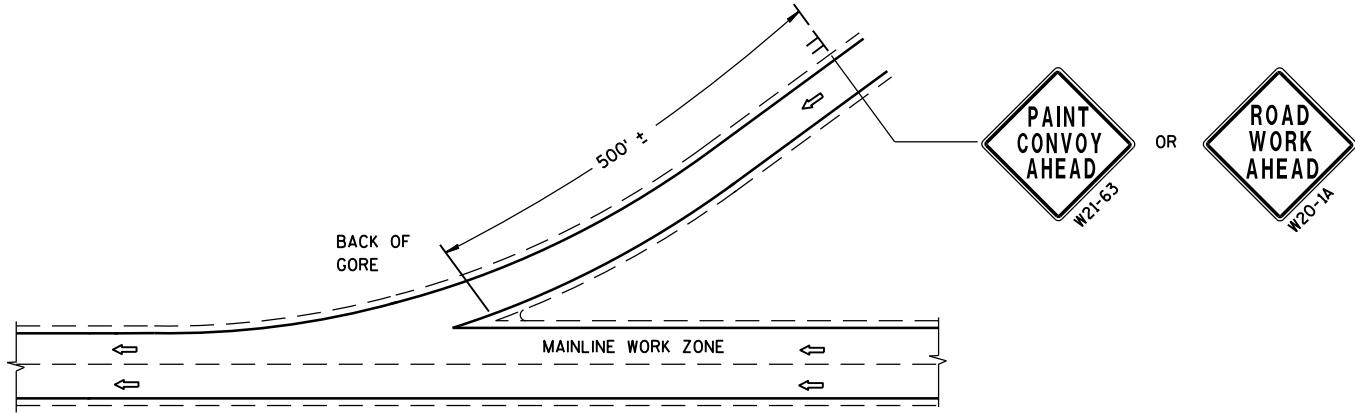
WHEN NO WORK ACTIVITY IS TAKING PLACE, REMOVE OR TURN THE STATIONARY WARNING SIGNS AWAY FROM TRAFFIC.

THIS DRAWING SHALL BE USED FOR EDGELINE OR LANELINE MARKING FOR MULTILANE DIVIDED ROADWAYS.

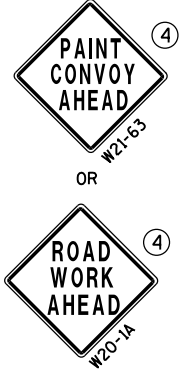
- ① CONES MAY BE OMITTED ON PAINTED LINE IF APPROVED BY THE ENGINEER. CONSIDER PAVEMENT MARKING DRY OR CURE TIMES AND TRAFFIC VOLUME.
- ② USE STANDARD SIGN W21-64 WITH APPROPRIATE ARROW.
 OR 
- ③ SIGNS SHALL BE REPEATED AFTER EVERY ON RAMP OR EVERY THREE MILES.
- ④ IF CONSTRUCTION WORK ZONE SIGNS ARE 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 (MERGE)



**MOVING PAVEMENT MARKING OPERATIONS
 MULTI-LANE DIVIDED ROADWAY**



**MOVING PAVEMENT MARKING
 OPERATION
 MULTI-LANE DIVIDED ROADWAY**

STATE OF WISCONSIN
 DEPARTMENT OF TRANSPORTATION

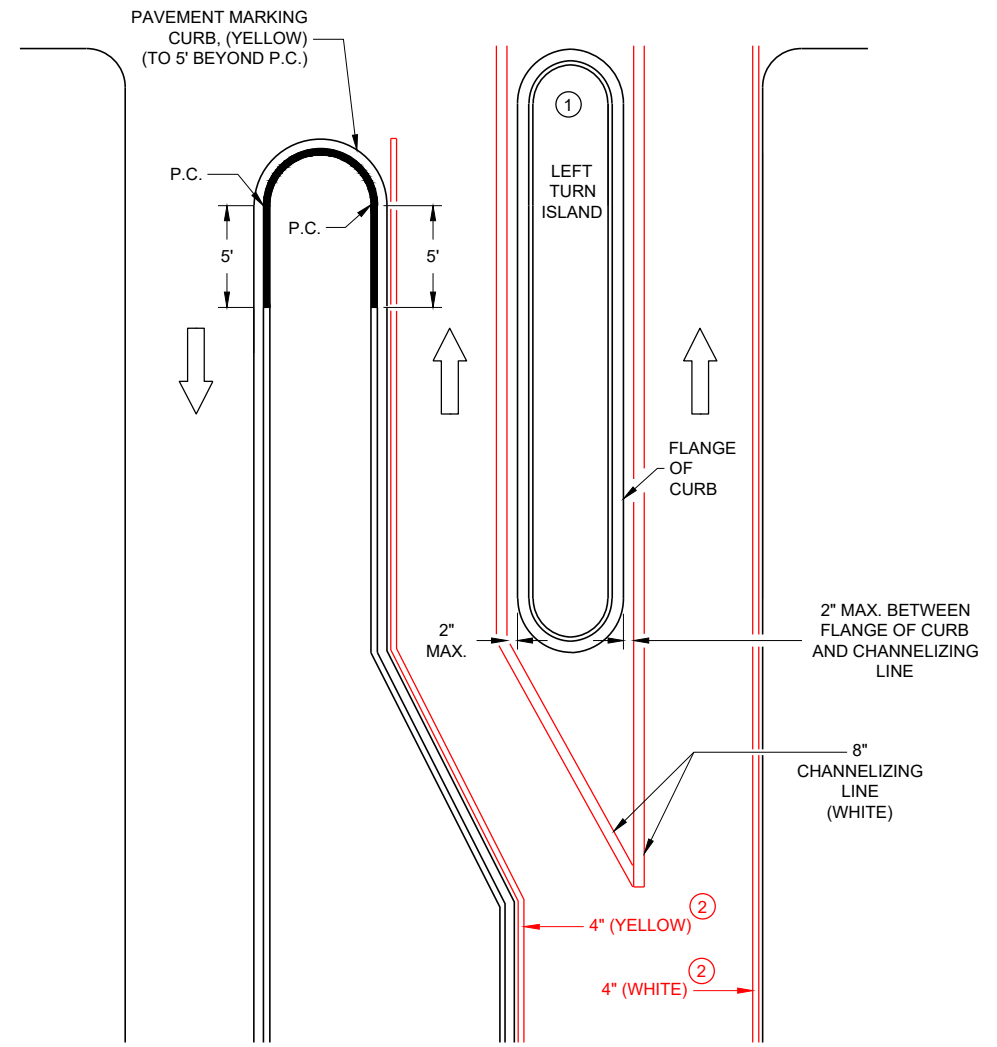
APPROVED
 DATE: Sept. 2017 /S/ Andrew Heldtke
 WORK ZONE ENGINEER
 FHWA

REQUIREMENTS FOR EDGE LINES		
POSTED SPEED	IS THERE CONTINUOUS LIGHTING?	
	YES	NO
≤ 30 MPH	NO	OPTIONAL
35 OR 40 MPH	OPTIONAL	RECOMMENDED
≥ 45 MPH	RECOMMENDED	REQUIRED

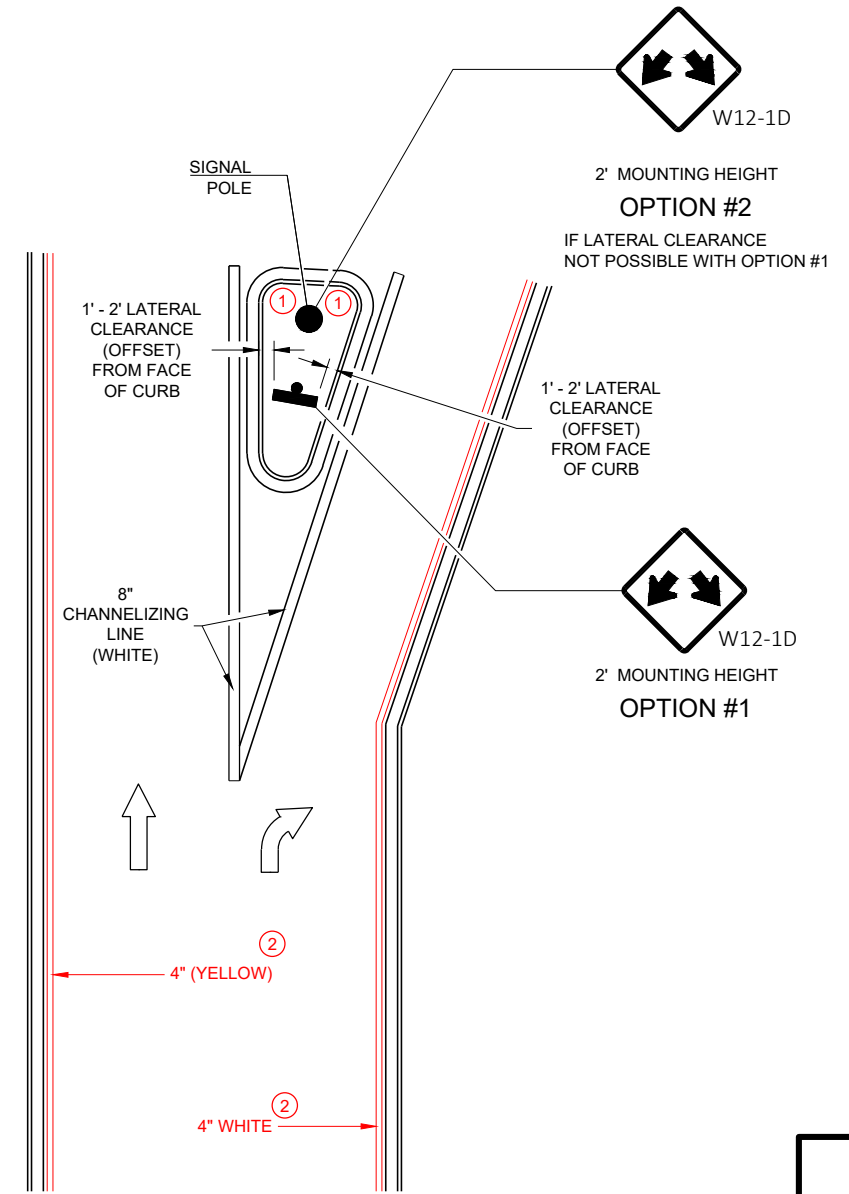
GENERAL NOTES

APPLIES TO ISLANDS AT LEFT TURNS AT ONE WAY ROADWAYS AS WELL.
SEE MISCELLANEOUS QUANTITIES FOR SIGN SIZE.

- ① MARK CURB NOSES YELLOW.
- ② MARK ACCORDING TO TABLE.



LEFT TURN & MEDIAN ISLAND



RIGHT TURN ISLAND

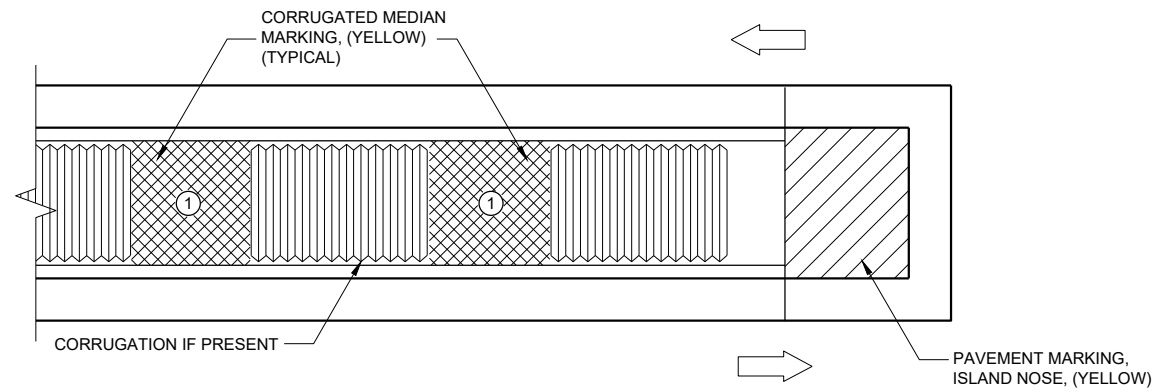
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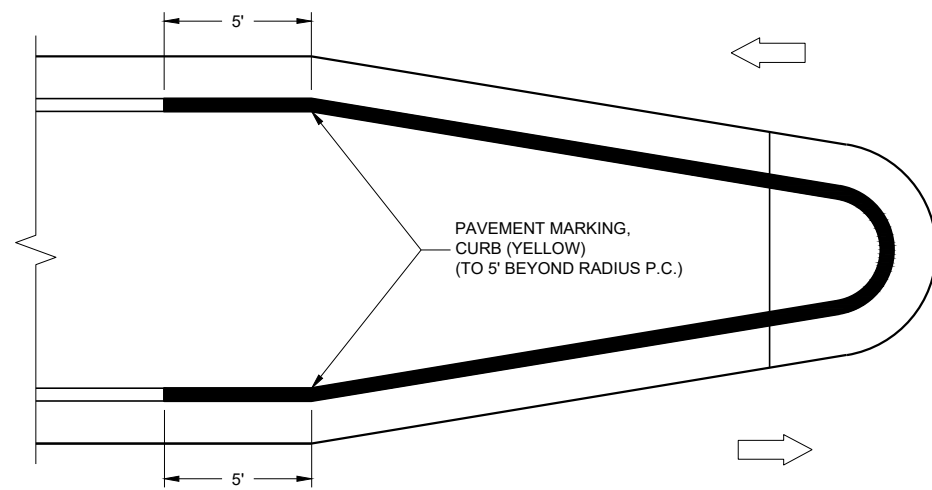
SDD 15C27 - 03a

SDD 15C27 - 03a

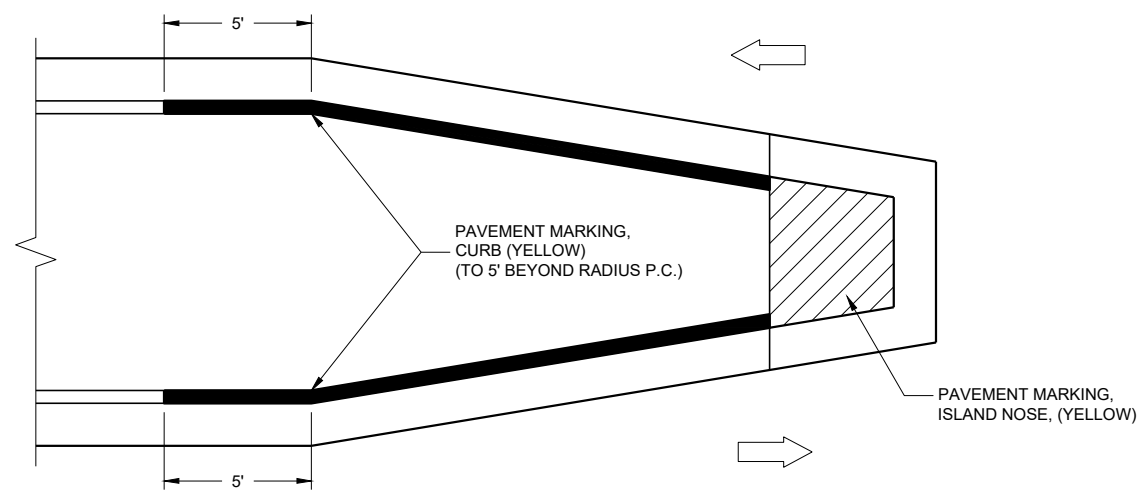
DOUBLE ARROW WARNING SIGN PLACEMENT	
STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION	
APPROVED DATE 7/2018	/S/ Matthew R. Rauch STATE SIGNING AND MARKING ENGINEER
<small>FHWA</small>	



MEDIAN ISLAND WITH SQUARE BLUNT NOSE



MEDIAN ISLAND WITH ROUND BLUNT NOSE







MEDIAN ISLAND WITH SLOPED NOSE

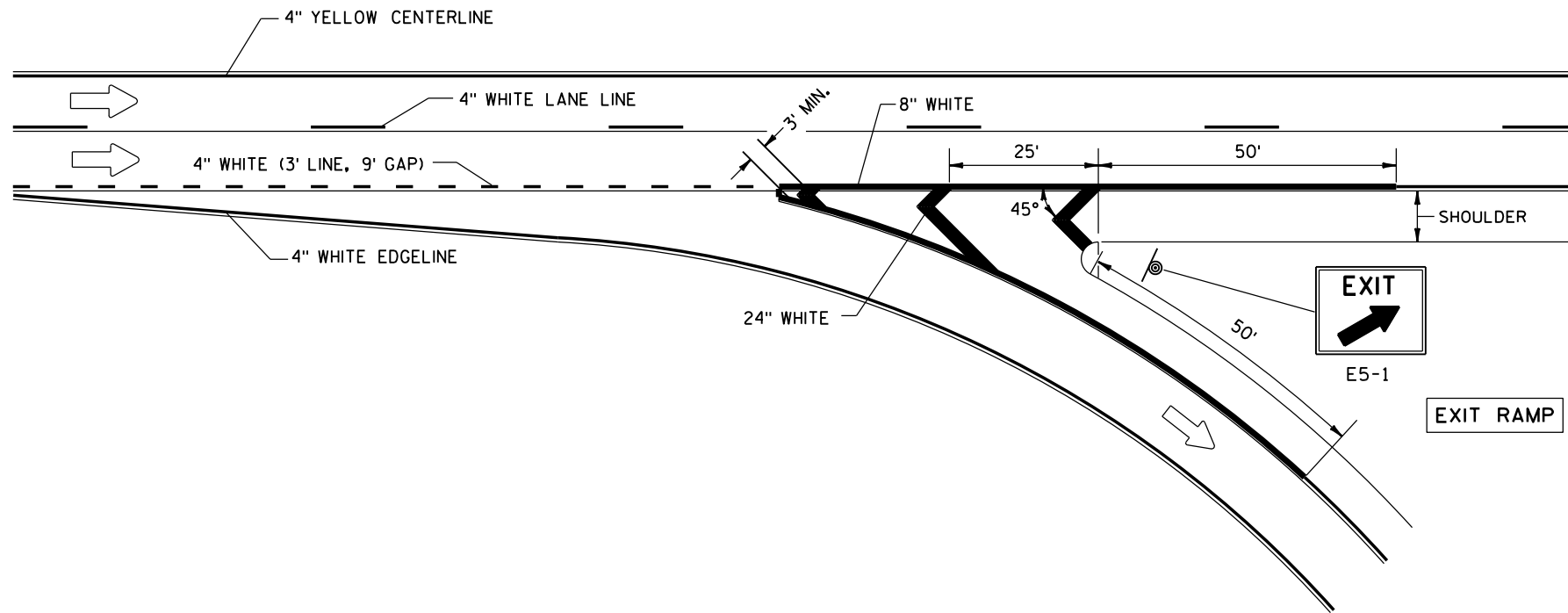
TYPICAL PLACEMENT OF PAVEMENT MARKING ON MEDIAN ISLANDS

GENERAL NOTES

WHEN CONCRETE CORRUGATED MEDIAN IS CONSTRUCTED TO SEPARATE TRAFFIC OPERATING IN THE OPPOSING DIRECTION, YELLOW PAVEMENT MARKING SHALL BE APPLIED TO THE FLAT PORTION OF THE CONCRETE CORRUGATED MEDIAN. THE ITEM OF PAVEMENT MARKING, CONCRETE CORRUGATED MEDIAN, WILL BE MEASURED IN PLACE AND ACCEPTED IN ACCORDANCE WITH THE CONTRACT AND PAID FOR AT THE CONTRACT UNIT PRICE PER SQUARE FOOT.

-  ISLAND NOSE MARKING
-  CURB MARKING
-  CORRUGATED MEDIAN MARKING
-  DIRECTION OF TRAVEL



PAVEMENT MARKINGS (ISLANDS)	
STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION	
APPROVED 7/2018 DATE	/S/ Matthew R. Rauch STATE SIGNING AND MARKING ENGINEER
<small>FHWA</small>	



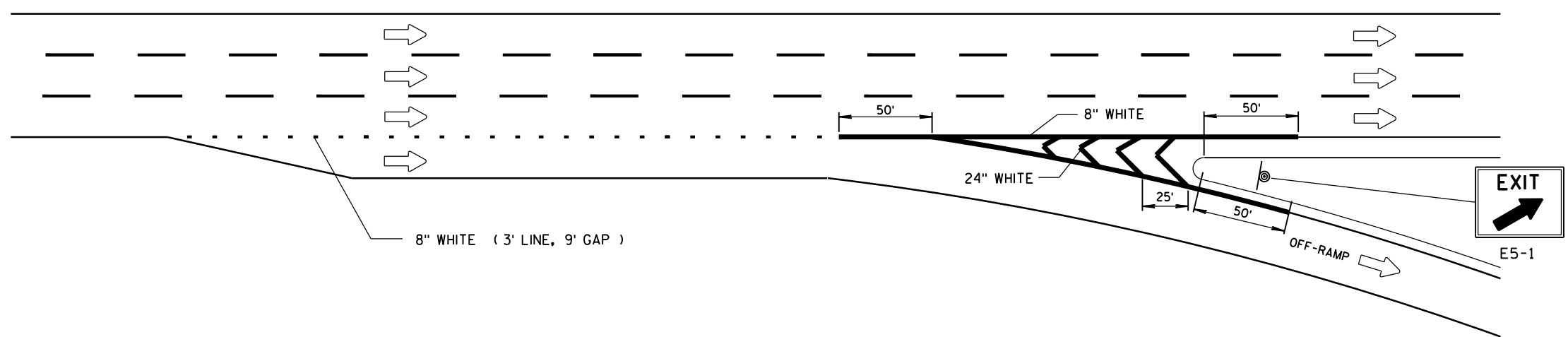
GENERAL NOTES

PLACE GROOVE 3 INCHES LEFT OF JOINT.

LEGEND

-  DIRECTION OF TRAVEL
-  SIGN ON PERMANENT SUPPORT

PAVEMENT MARKING FOR EXIT RAMP



SERVICE INTERCHANGE PAVEMENT MARKING FOR PARALLEL EXIT-RAMP

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S.D.D. 15 C 31-3a

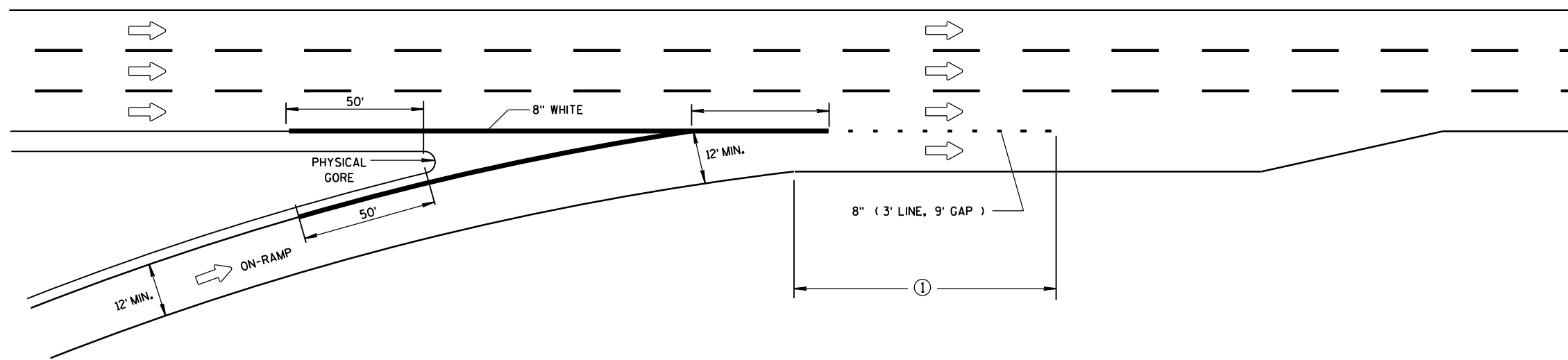
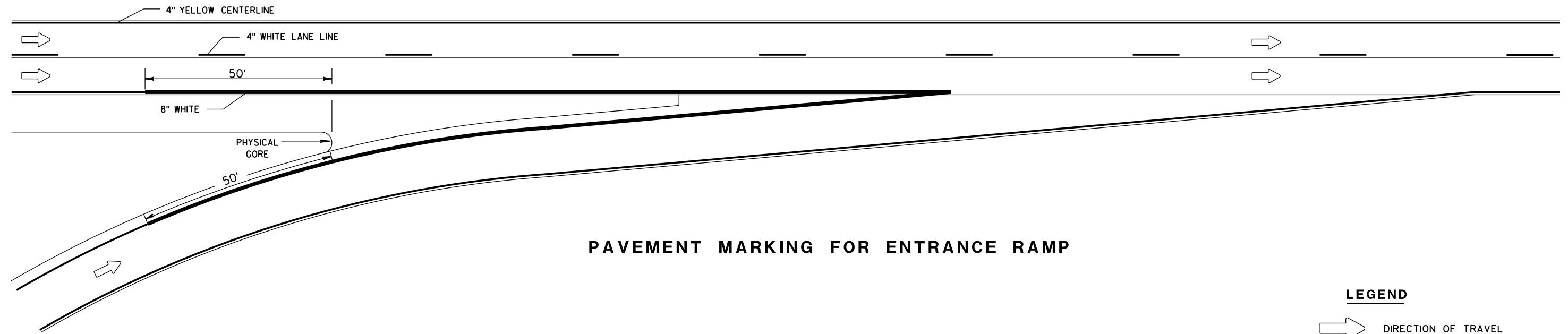
S.D.D. 15 C 31-3a

<p>PAVEMENT MARKING (RAMPS AND GORES)</p>
<p>STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION</p>

GENERAL NOTES

PLACE GROOVE 3 INCHES LEFT OF JOINT.

① 1/2 LENGTH OF FULL WIDTH ACCELERATION LANE.



PAVEMENT MARKING FOR
PARALLEL ON-RAMP AND
PARALLEL OFF-RAMP

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

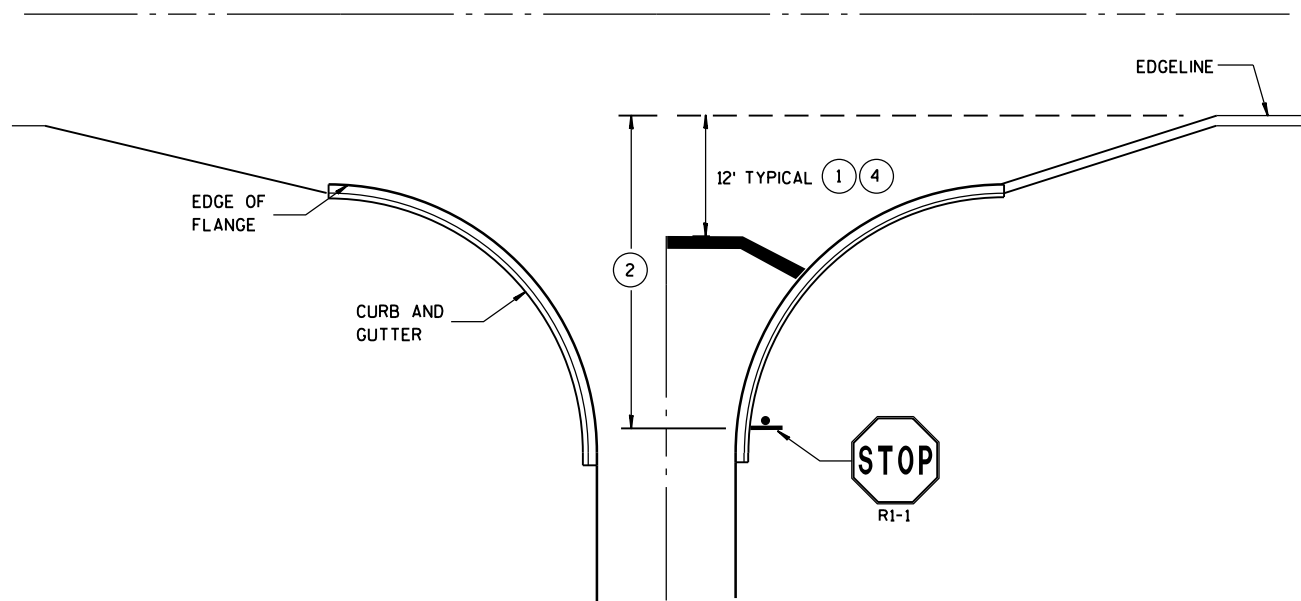
APPROVED
DATE: Sept., 2017 /S/ Matthew R. Rauch
STATE SIGNING AND MARKING ENGINEER
FHWA

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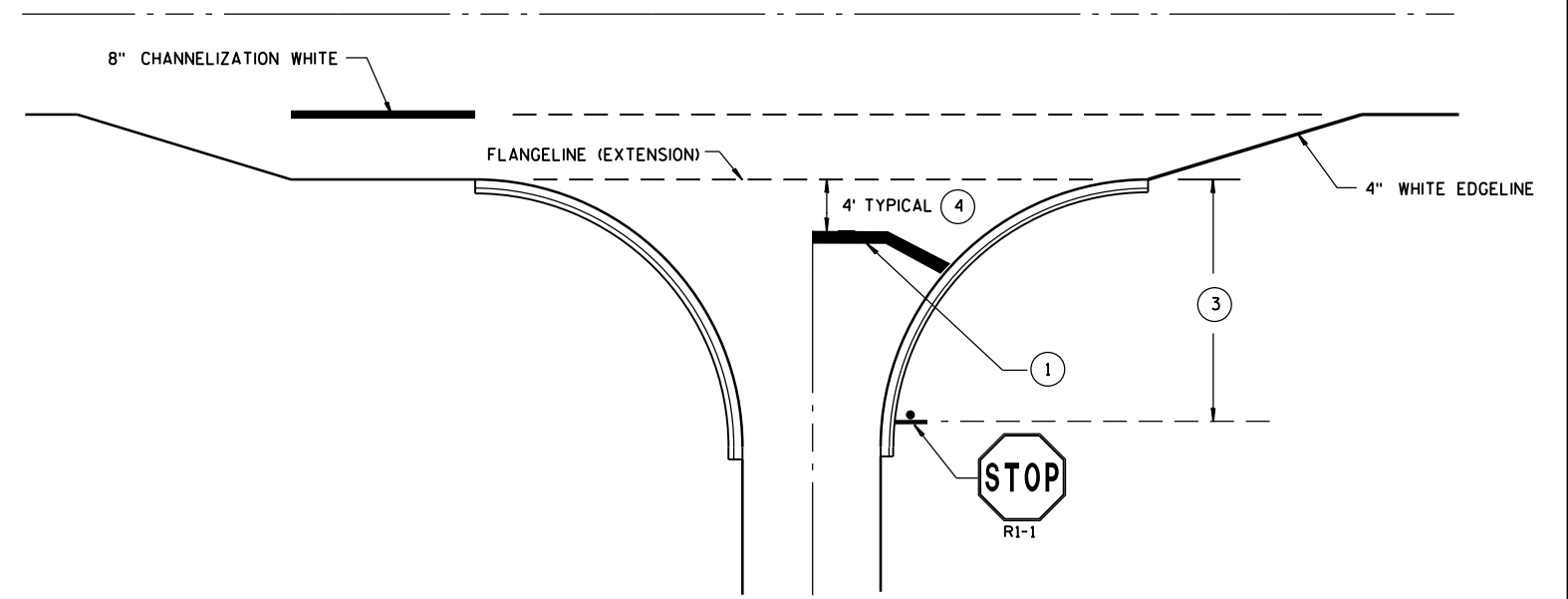
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S.D.D. 15 C 31-3c

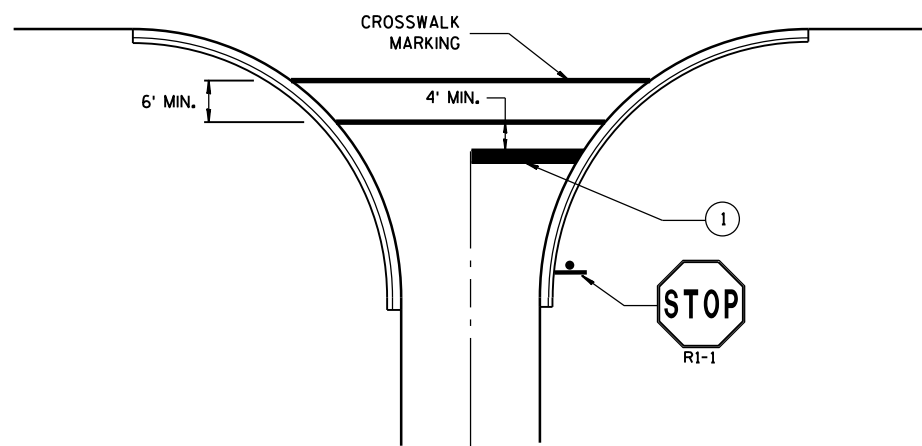
S.D.D. 15 C 31-3c



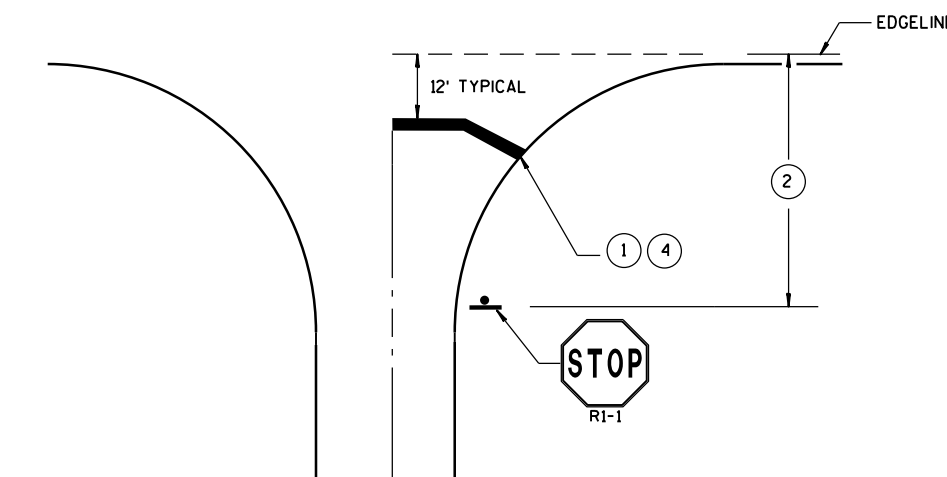
TYPICAL STOP LINE PAVEMENT MARKING WITH CURB AND GUTTER



TYPICAL STOP LINE PAVEMENT MARKING FOR SIDEROADS WITH RIGHT TURN LANE



TYPICAL STOP LINE PAVEMENT MARKING FOR SIDEROADS WITH CROSSWALK MARKING



TYPICAL STOP LINE PAVEMENT MARKING WITHOUT CURB AND GUTTER

GENERAL NOTES

STOP SIGN SHALL BE PLACED A MINIMUM OF 6 FEET TO A MAXIMUM OF 50 FEET FROM THE EDGELINE LOCATION.

- ① 18-INCH STOP LINES MAY BE DELETED OR ADDED BY THE PROJECT ENGINEER BASED ON VISIBILITY AND SIGHT LINES.
- ② IF STOP SIGN IS LESS THAN OR EQUAL TO 40 FEET FROM THE EDGELINE THAN NO STOP LINE IS REQUIRED.
- ③ IF STOP SIGN IS LESS THAN OR EQUAL TO 30 FEET FROM THE FLANGELINE EXTENSION THAN NO STOP LINE IS REQUIRED.
- ④ MOVE CLOSER TO EDGE OF TRAVEL LANE AS NEEDED FOR VISIBILITY AND SIGHT LINES. (NO CLOSER THAN 4 FEET).

STOP LINE AND CROSSWALK PAVEMENT MARKING

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

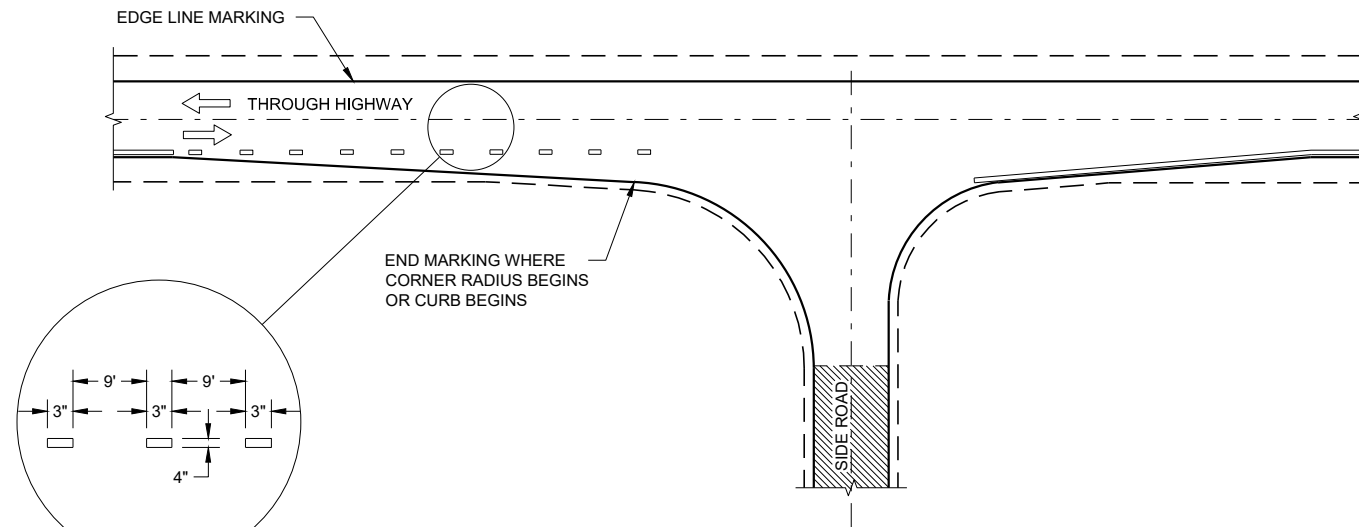
APPROVED
DATE: Sept., 2017 /S/ Matthew R. Rauch
STATE SIGNING AND MARKING ENGINEER
FHWA

GENERAL NOTES

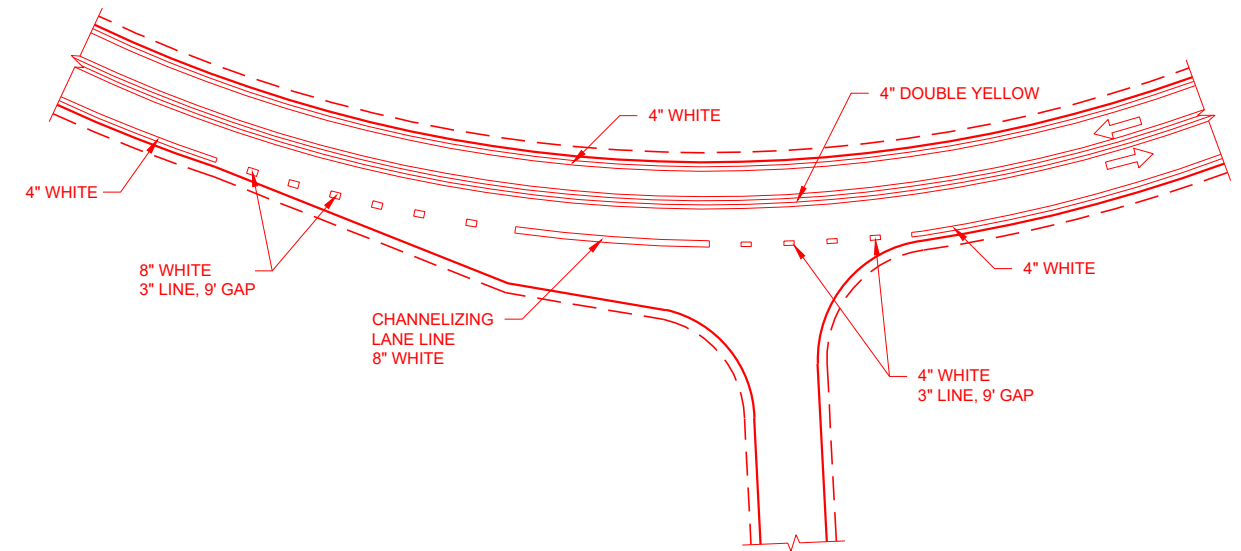
OMIT EDGE LINES THROUGH INTERSECTIONS. CONTINUE EDGE LINES THROUGH DRIVEWAYS.

- 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

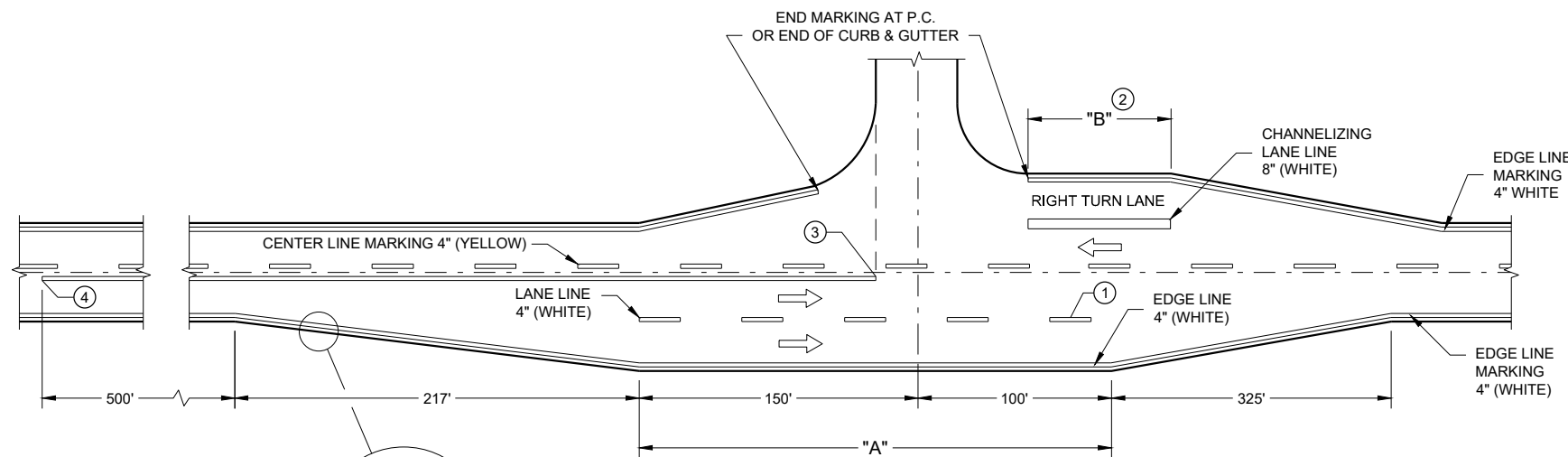
ARROW SYMBOL (⇨) SHOWS DIRECTION OF TRAVEL



MINOR INTERSECTION

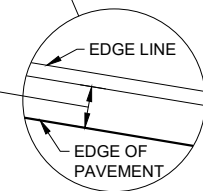


INTERSECTION ON OUTSIDE OF CURVE



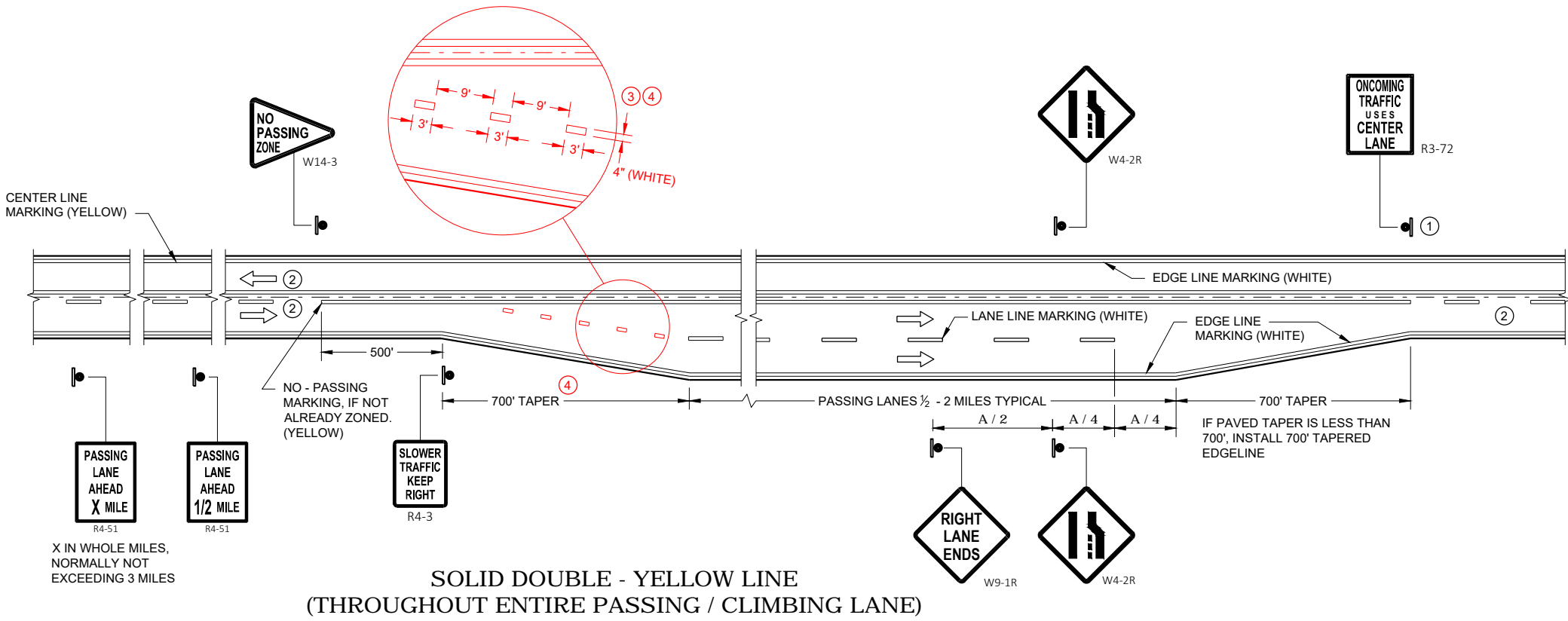
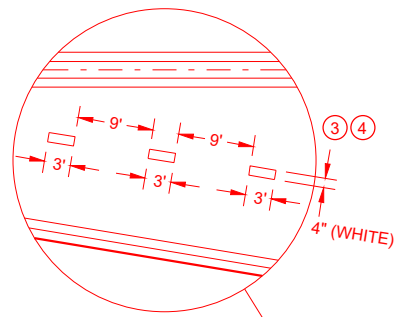
MAJOR INTERSECTIONS (INTERSECTION WITH FULL RIGHT TURN LANE OR BYPASS LANE)

BYPASS LANE PAVED SHOULDER WIDTH (AS SHOWN ELSEWHERE IN PLANS) - PLUS 2 INCHES



PAVEMENT MARKING
(INTERSECTIONS)

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION



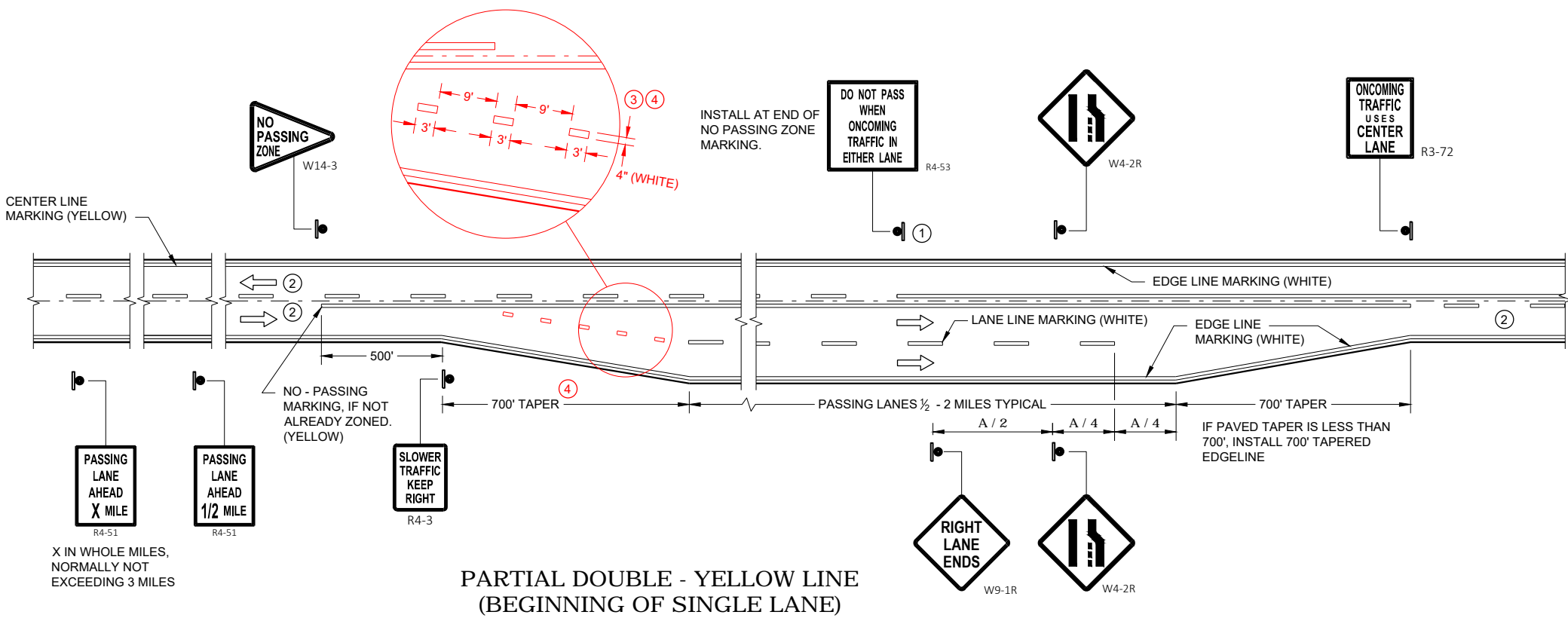
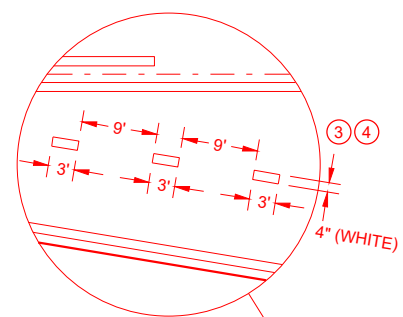
GENERAL NOTES

- ① SIGN SHALL BE REPEATED AT 1 MILE INCREMENTS OR AT THE DISCRETION OF THE REGIONAL TRAFFIC ENGINEER.
- ② THERE MAY BE SOLID YELLOW ON THE CENTERLINE DUE TO SIGHT CONDITIONS.
- ③ THE TAPER LENGTH OF THE DOTTED LINE PAVEMENT MARKING SHALL BE 700 FEET, 3' LINE, 9' GAP, EXCEPT RETRACE THE EXISTING LINE - GAP PATTERN WHERE EXISTING MARKINGS ARE IN PLACE.
- ④ WHEN THE ENTRANCE TAPER IS LESS THAN 700 FEET OR THE SHOULDER WIDTH IN THE PASSING / CLIMBLING LANE IS LESS THAN THE ADJACENT HIGHWAY, DO NOT INSTALL DOTTED LINE PAVEMENT MARKING.

ARROW SYMBOL (→) SHOWS DIRECTION OF TRAVEL

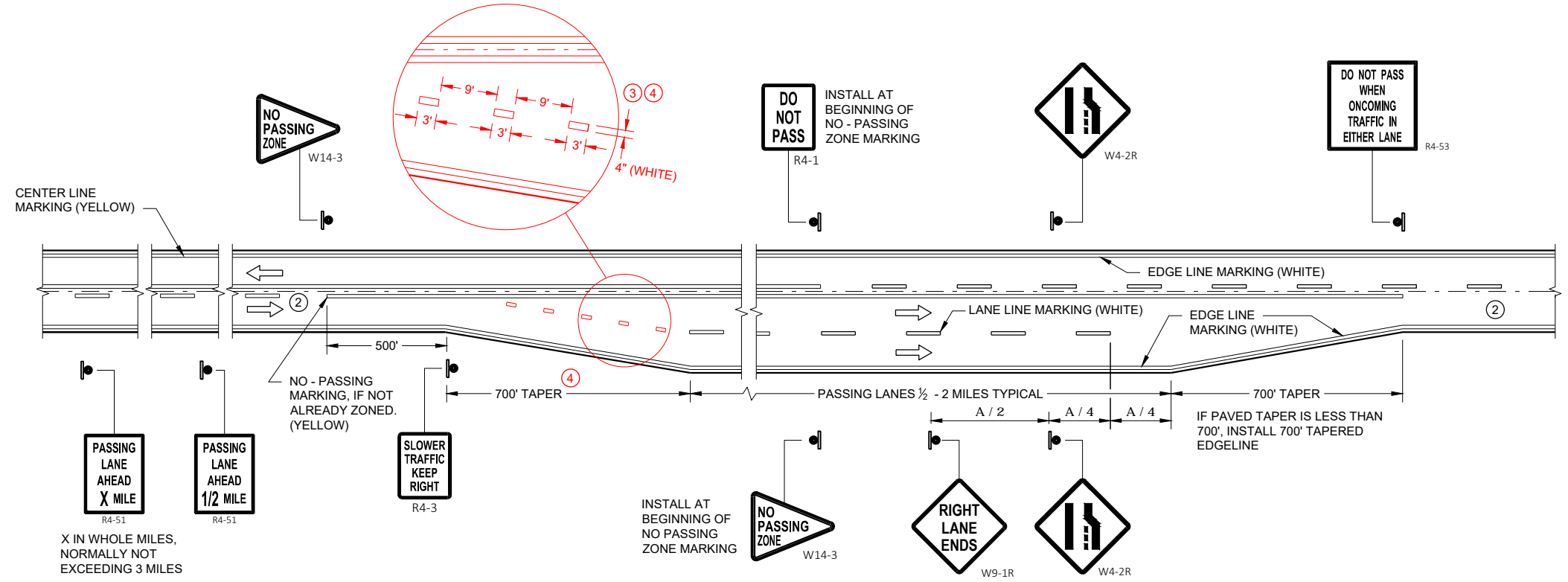
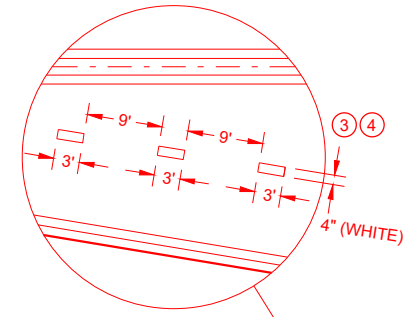
DISTANCE TABLE

POSTED OR 85th PERCENTILE SPEED	DISTANCE "A"
45	775
50	850
55	950

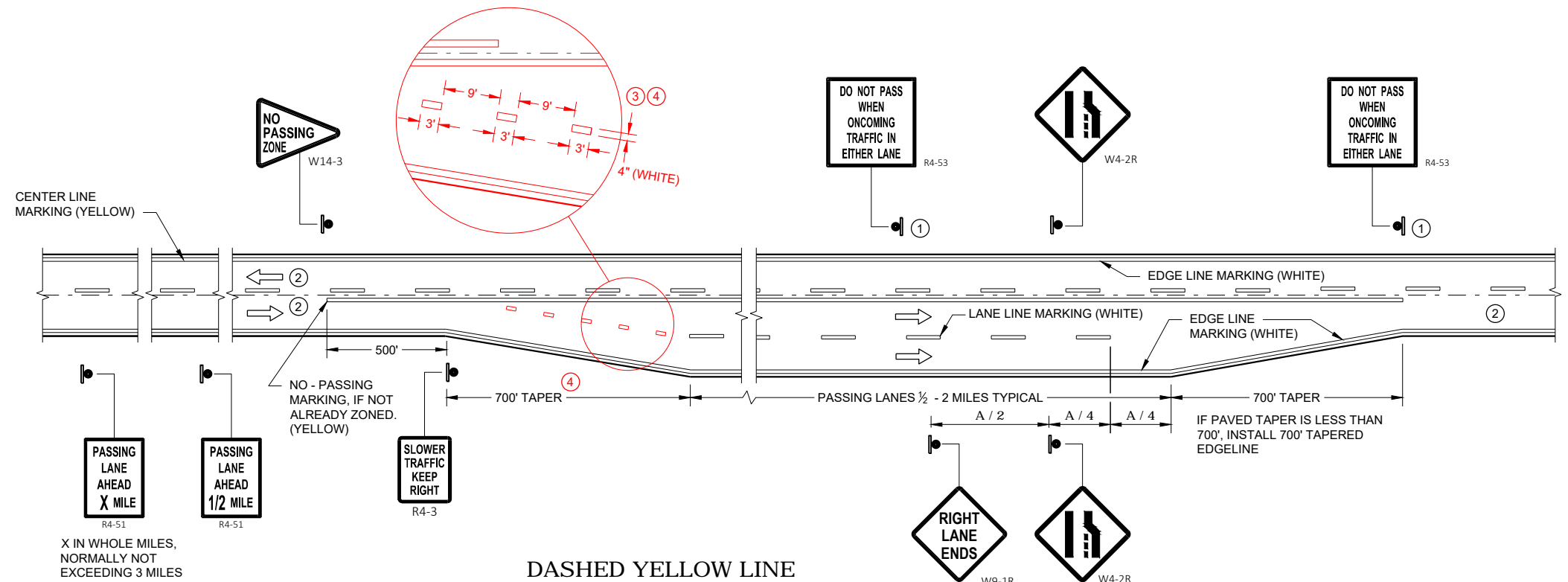


**PAVEMENT MARKING & SIGNING
(CLIMBLING LANE & PASSING LANE)**

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION



**SOLID DOUBLE - YELLOW LINE
(END OF SINGLE LANE)**



**DASHED YELLOW LINE
(THROUGHOUT SINGLE LANE)**

GENERAL NOTES

- ① SIGN SHALL BE REPEATED AT 1 MILE INCREMENTS OR AT THE DISCRETION OF THE REGIONAL TRAFFIC ENGINEER.
- ② THERE MAY BE SOLID YELLOW ON THE CENTERLINE DUE TO SIGHT CONDITIONS.
- ③ THE TAPER LENGTH OF THE DOTTED LINE PAVEMENT MARKING SHALL BE 700 FEET, 3' LINE, 9' GAP, EXCEPT RETRACE THE EXISTING LINE - GAP PATTERN WHERE EXISTING MARKINGS ARE IN PLACE.
- ④ WHEN THE ENTRANCE TAPER IS LESS THAN 700 FEET OR THE SHOULDER WIDTH IN THE PASSING / CLIMBLING LANE IS LESS THAN THE ADJACENT HIGHWAY, DO NOT INSTALL DOTTED LINE PAVEMENT MARKING.

ARROW SYMBOL (→) SHOWS DIRECTION OF TRAVEL

DISTANCE TABLE

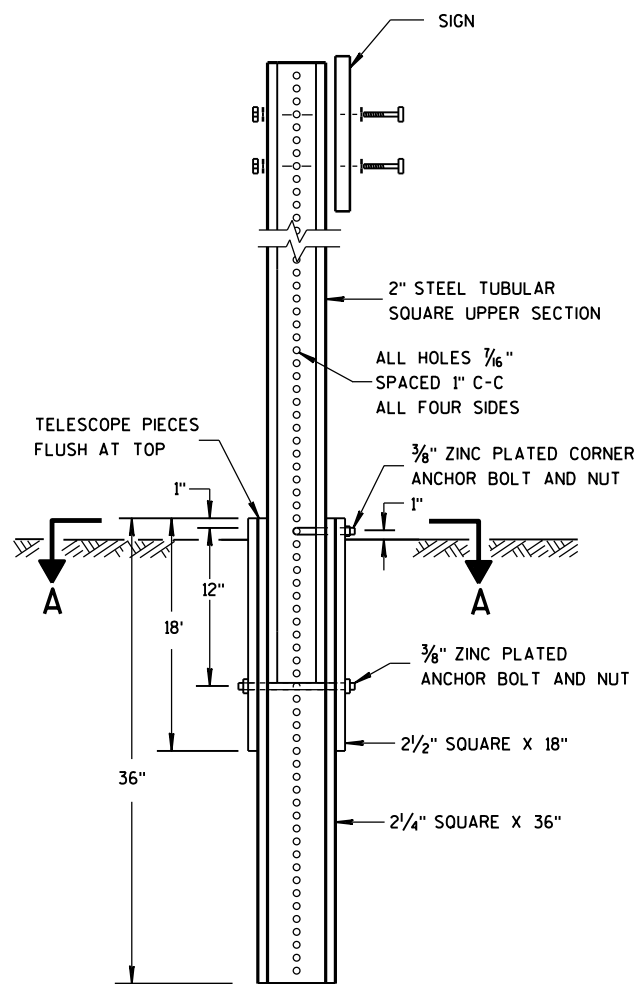
POSTED OR 85th PERCENTILE SPEED	DISTANCE "A"
45	775
50	850
55	950

PAVEMNET MARKING & SIGNING
(CLIMBLING LANE & PASSING LANE)

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED _____ /S/ <AUTHOR>
DATE _____ ROADWAY STANDARDS DEVELOPMENT ENGINEER

FHWA



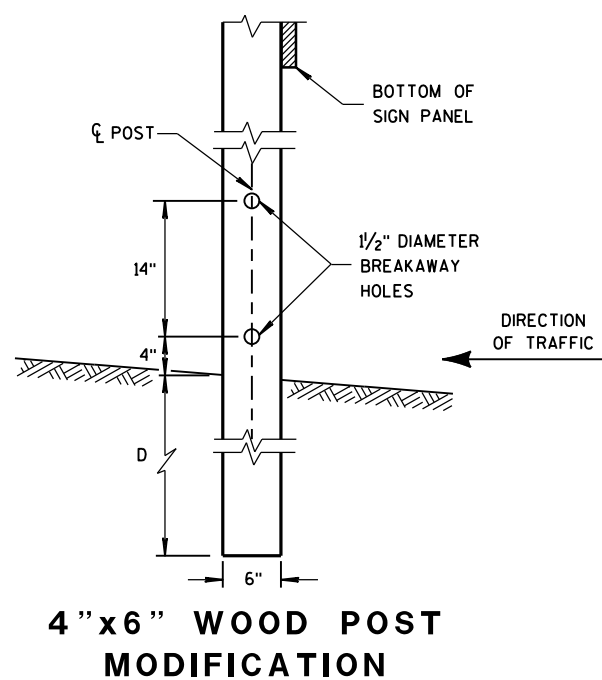
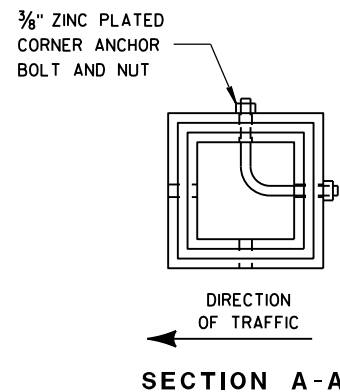
DETAIL OF TUBULAR STEEL SIGN POST

TUBULAR STEEL POSTS

AREA OF SIGN INSTALLATION (SQ. FT.)	NUMBER OF REQUIRED TUBULAR STEEL 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

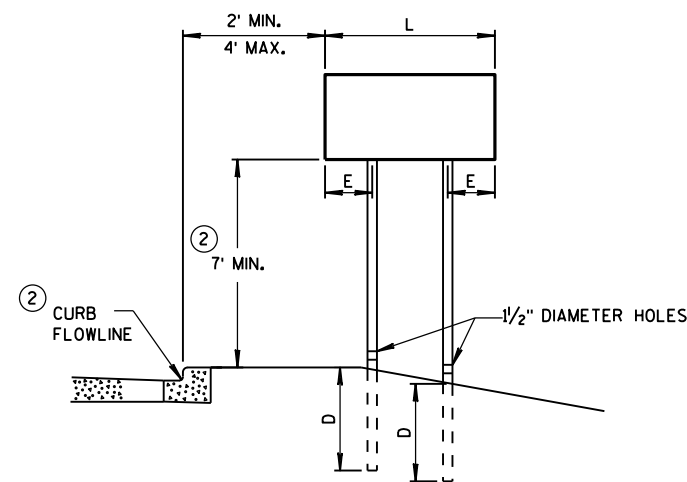
SIGNS WIDER THAN 3 FEET OR LARGER THAN 9 SQ. FT. SHALL BE MOUNTED ON MULTIPLE POSTS (SEE ABOVE TABLE).

SIGNS LARGER THAN 27 SQ. FT. SHALL NOT BE MOUNTED ON TUBULAR STEEL POSTS.



GENERAL NOTES

- ① 6 FEET FROM THE EDGE OF PAVEMENT (EDGE LINE LOCATION) UNLESS OTHERWISE DIRECTED BY THE PROJECT ENGINEER. LATERAL OFFSET SHOULD BE ADJUSTED TO AVOID THE DITCH FLOWLINE.
- ② THE EXISTENCE OF CURB AND GUTTER DOES NOT IN ITSELF MANDATE THE VERTICAL CLEARANCE ILLUSTRATED. THAT HEIGHT IS TYPICALLY MEASURED WHERE THERE IS SIDEWALK ADJACENT TO THE ROADWAY OR PARKING IS PERMITTED. IN THE ABSENCE OF SIDEWALK, VERTICAL CLEARANCE IS MEASURED FROM THE TOP OF THE CURB. IF NO SIDEWALK AND NO PARKING, VERTICAL CLEARANCE MAY BE REDUCED TO 5 FOOT MINIMUM. OFFSET OF SIGNS IS MEASURED FROM THE CURB FLOWLINE.
- ③ FOR SIGNS REQUIRING 4 POSTS, SPACE INTERMEDIATE POSTS EVENLY.

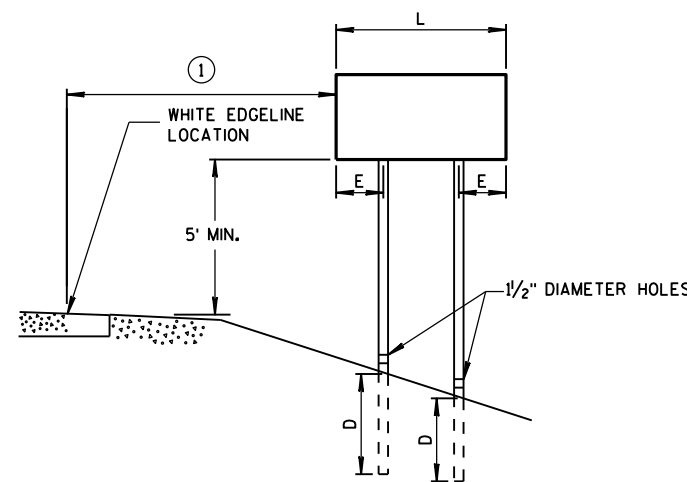


URBAN AREA

POST MOUNTING DETAIL FOR TEMPORARY TRAFFIC CONTROL FIXED MESSAGE SIGNS

WOOD POST EMBEDMENT DEPTH

AREA OF SIGN INSTALLATION (SQ. FT.)	D (MIN)
20 OR LESS	4'
GREATER THAN 20	5'



RURAL AREA

4\"/>

POST SPACING REQUIREMENTS		NUMBER OF WOOD POSTS REQUIRED
L	E	
48\"/>		

SEE NOTE ③

TEMPORARY TRAFFIC CONTROL SIGN MOUNTING

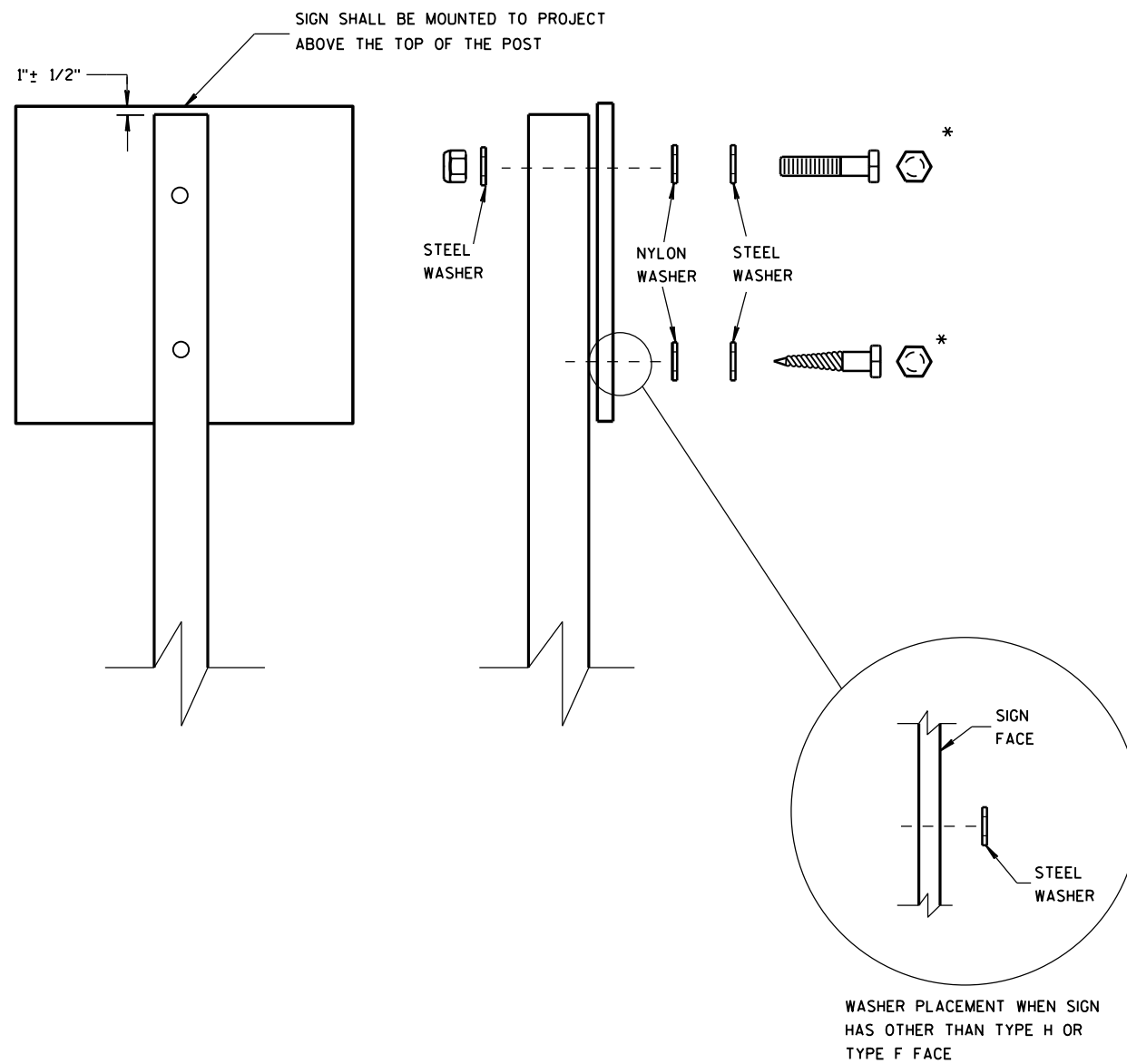
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

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S.D.D. 15 D 38-2a

S.D.D. 15 D 38-2a



NUTS, BOLTS AND LAGS USED FOR MOUNTING SIGNS SHALL HAVE HEXAGONAL HEADS AND SHALL BE EITHER:

A. HOT DIP GALVANIZED IN ACCORDANCE WITH ASTM DESIGNATION: A 153, CLASS D, OR SC 3

B. ELECTRO-GALVANIZED IN ACCORDANCE WITH ASTM DESIGNATION: B 633, TYPE III, SC 3

THREADS ON BOLTS AND NUTS SHALL BE MANUFACTURED WITH SUFFICIENT ALLOWANCE FOR THE CADMIUM PLATE OR GALVANIZED COATING TO PERMIT THE NUTS TO RUN FREELY ON THE BOLTS.

WOOD POSTS (4" x 4" or 4" x 6")

LAG SCREWS - 3/8" X 3"

MACHINE BOLTS - 5/16" X 6-1/2" OR 7" LENGTH W/ NUTS

SQUARE STEEL POSTS (2" x 2")

MACHINE BOLTS - 3/8" X 3-1/4" LENGTH W/ NUTS

RIVETS - 5/32" (6605-9-6) BULB-TITE, TRI-FOLD, ALUMINUM BODY/MANDREL O.D. FLANGE .720-.765 INCH, GRIP RANGE .042-.375 INCH

WASHERS (ALL POSTS) -

1-1/4" O.D. X 3/8" I.D. X 1/16" STEEL

1-1/4" O.D. X 3/8" I.D. X .080 NYLON FOR ALL TYPE H SIGNS

* 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. FOR A SINGLE POST INSTALLATION, ALL SIGNS GREATER THAN 9 SQ. FT. REQUIRE THE USE OF 3 FASTENERS.

ATTACHMENT OF SIGNS TO POSTS	
STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION	
APPROVED June 2017 DATE	/s/ Andrew Heidtke WORK ZONE ENGINEER
FHWA	



Wisconsin Department of Transportation

Dedicated people creating transportation solutions through innovation and exceptional service.

<http://www.dot.wisconsin.gov>