

MAD

JUNE 2021

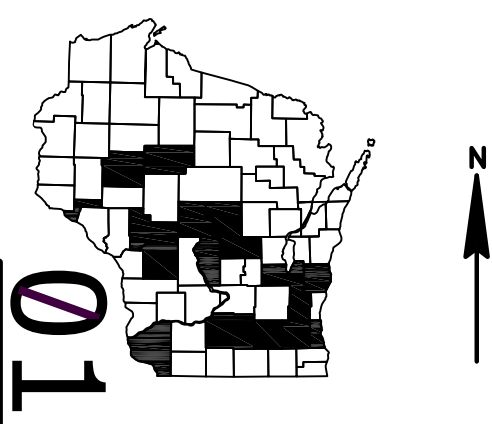
PROJECT ID: 1000-01-48

COUNTY: STATEWIDE

ORDER OF SHEETS

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

TOTAL SHEETS = 68



DESIGN DESIGNATION 1000-01-48

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

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

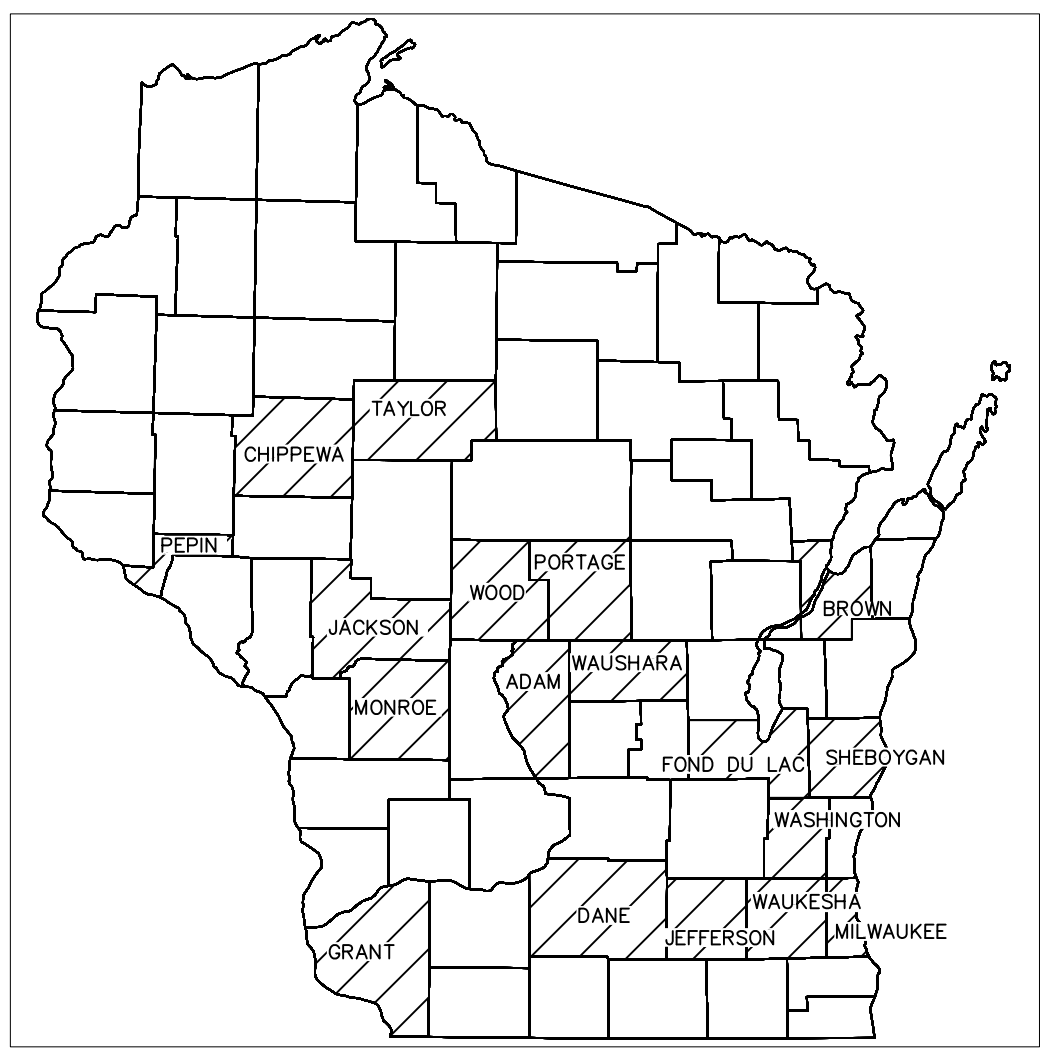
STATEWIDE, EPOXY PAVEMENT MARKING

LOCATIONS ON STN PER ANNUAL PLAN

VAR HWY

STATEWIDE

STATE PROJECT NUMBER
1000-01-48



LAYOUT
SCALE 0
TOTAL NET LENGTH OF CENTERLINE = 0 MILES

STATE PROJECT	FEDERAL PROJECT	
	PROJECT	CONTRACT
1000-01-48		

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

PREPARED BY

Surveyor STATEWIDE

Designers IVER PETERSON / JEANNIE SILVER

Project Manager

Regional Examiner

Regional Supervisor MATT RAUCH

APPROVED FOR THE DEPARTMENT

DATE: 3/08/2021 *Matthew R. Rauch*
(Signature)

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GENERAL NOTES

ALL EXISTING PAVEMENT MARKINGS SHALL BE CLEAN OF DEBRIS, SALT AND DIRT PRIOR TO APPLICATION OF NEW MARKINGS

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

IVER R. PETERSON
PROJECT MANAGER
WISDOT SW REGION
3550 MORMON COULEE ROAD
LA CROSSE, WI 54601
608-785-9060
iver.peterson@dot.wi.gov

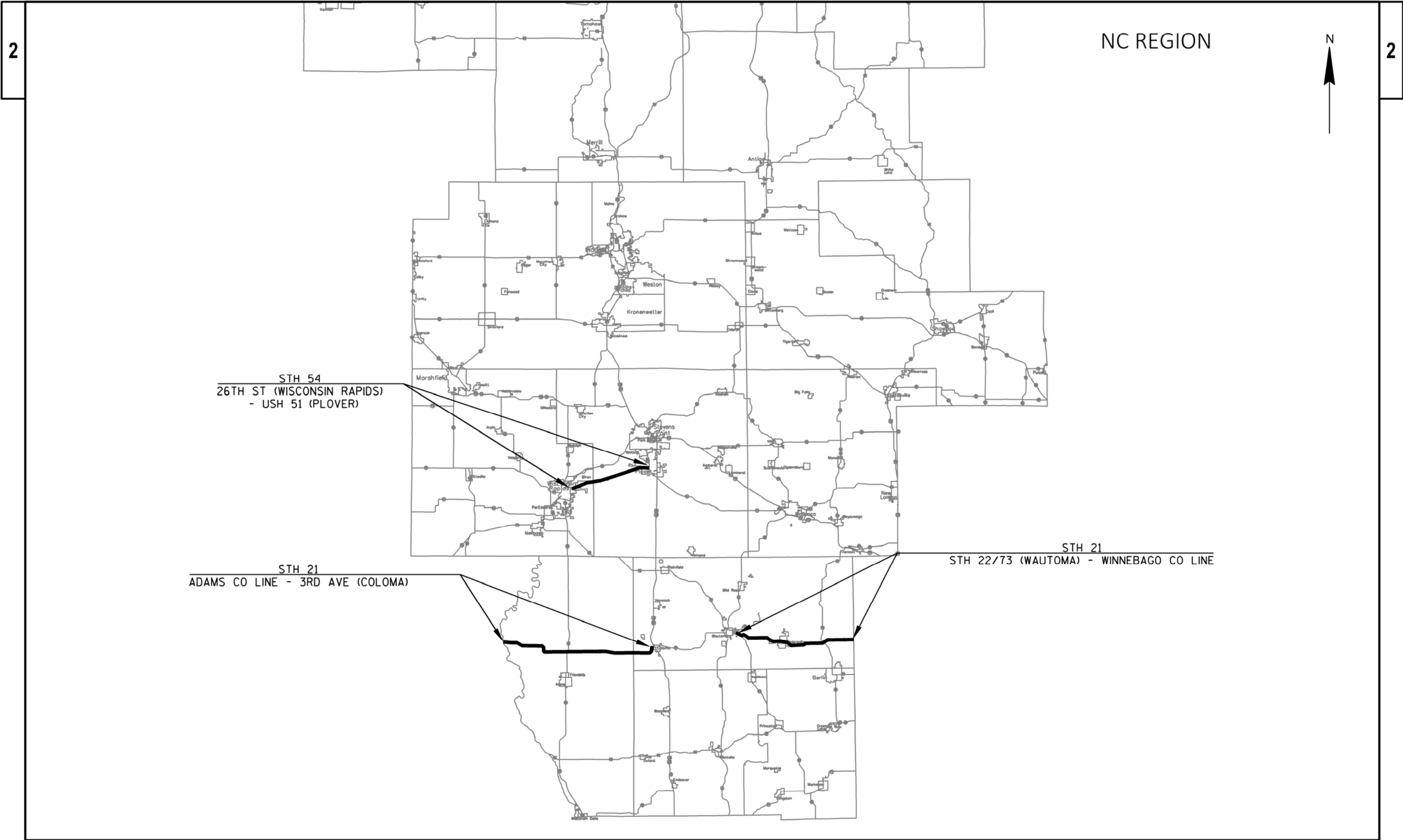
JEANNIE SILVER
STATE MARKING ENGINEER
WISDOT BUREAU OF TRAFFIC OPERATIONS
3609 PIERSTORFF STREET
MADISON, WI 53704
608-246-5408
jeannie.silver@dot.wi.gov

MATTHEW RAUCH
PROJECT SUPERVISOR
WISDOT BUREAU OF TRAFFIC OPERATIONS
3609 PIERSTORFF STREET
MADISON, WI 53704
608-246-5305

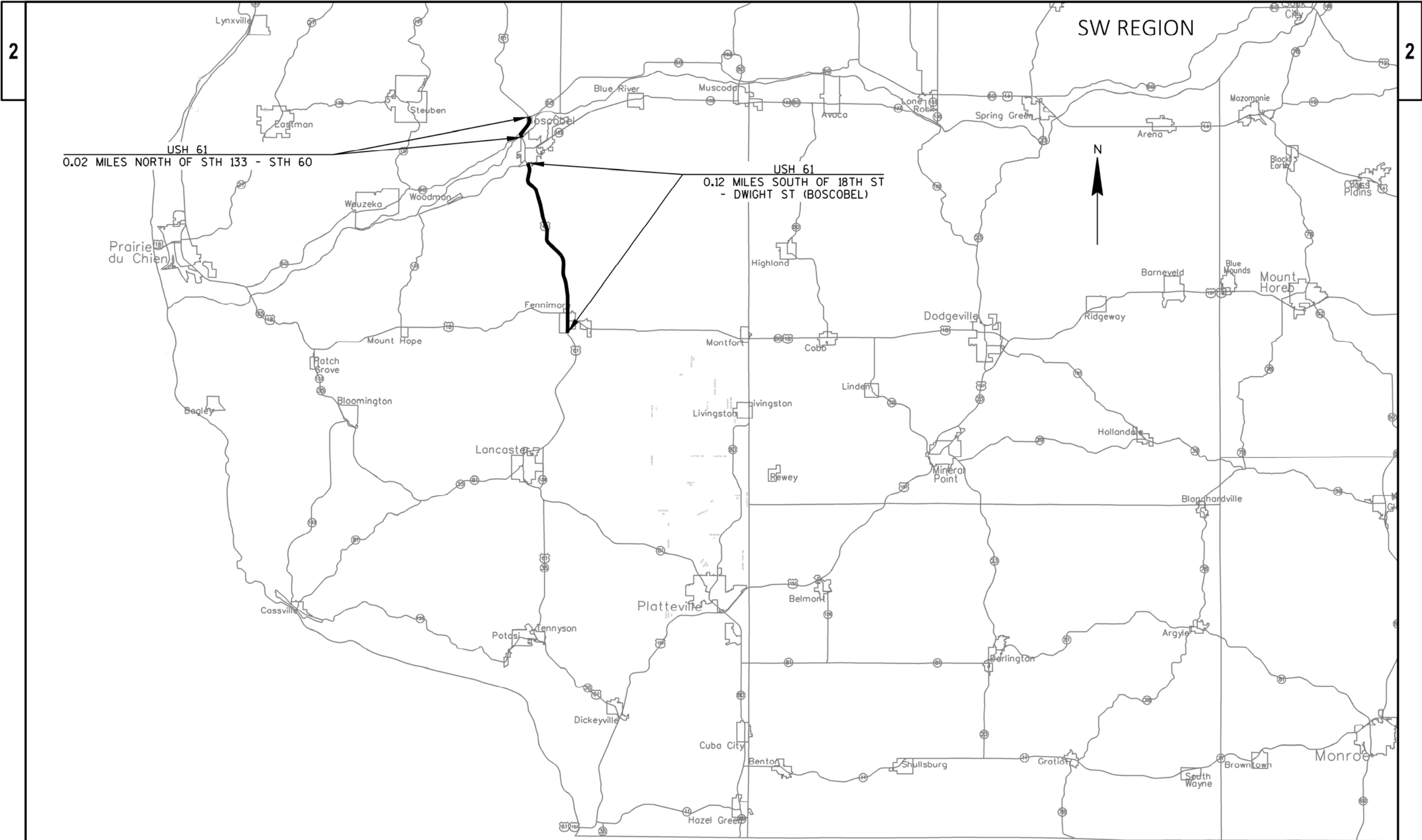
DNR SPILL HOTLINE (24-hour)
Wisconsin Department of Natural Resources
Toll-free: 1-800-943-0003

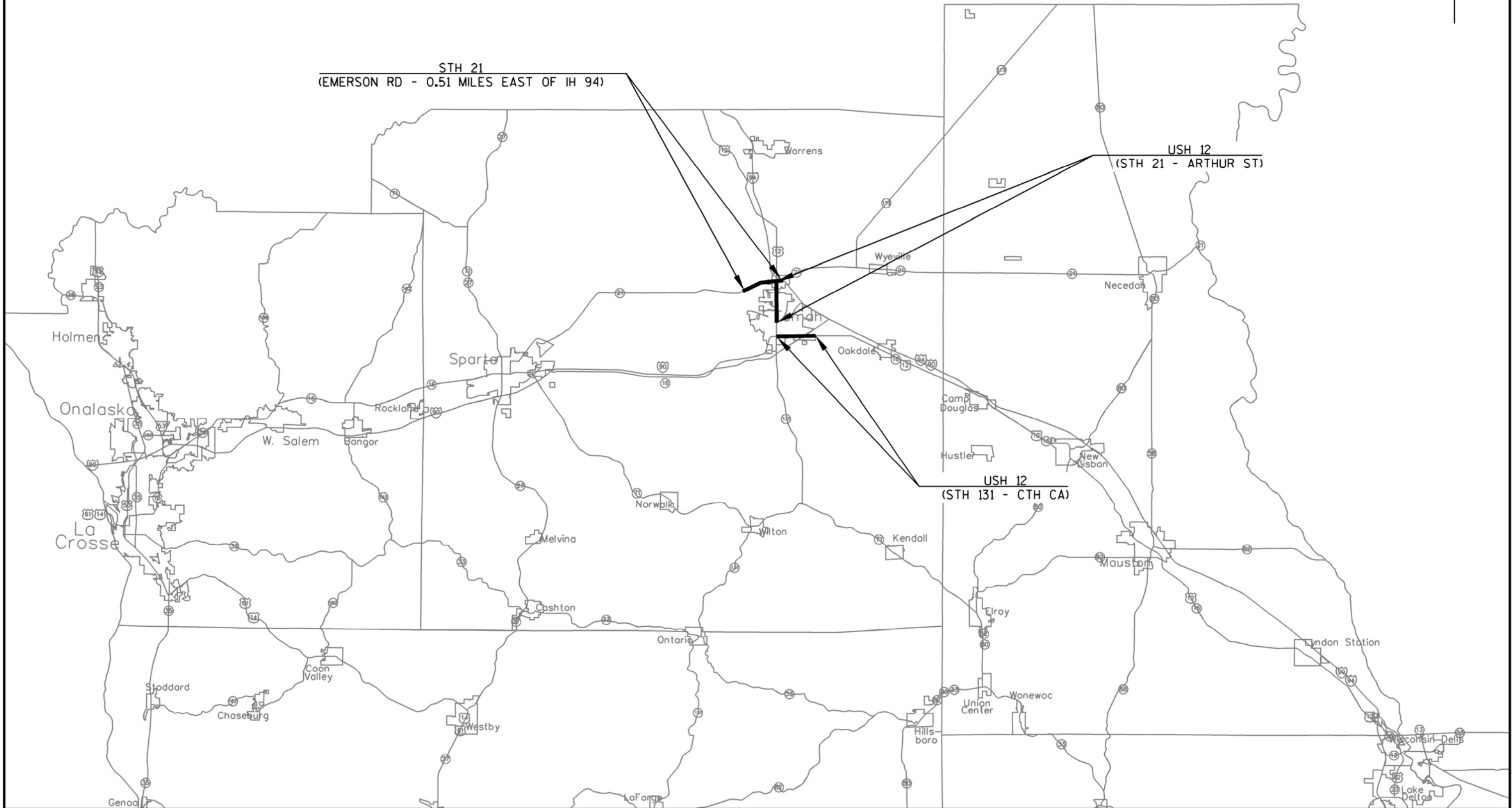
REGION PAVEMENT MARKING COORDINATORS / WISCONSIN LANE CLOSURE SYSTEM CONTACTS

SW REGION	LA CROSSE	KORY KEPPEL	608-792-6204	kory.keppel@dot.wi.gov
SW REGION	MADISON	JEFF HOLLOWAY	608-516-6437	jeffrey.holloway@dot.wi.gov
NC REGION	WISCONSIN RAPIDS	MIKE WORZELLA	715-459-4257	michael.worzella@dot.wi.gov
NE REGION	GREEN BAY	STEVE HERLACHE	920-492-3512	steven.herlache@dot.wi.gov
NW REGION	EAU CLAIRE	VANCE POWERS	715-409-9115	vance.powers@dot.wi.gov
SE REGION	WAUKESHA	TOM HEYDEL	262-548-6763	tom.heydel@dot.wi.gov

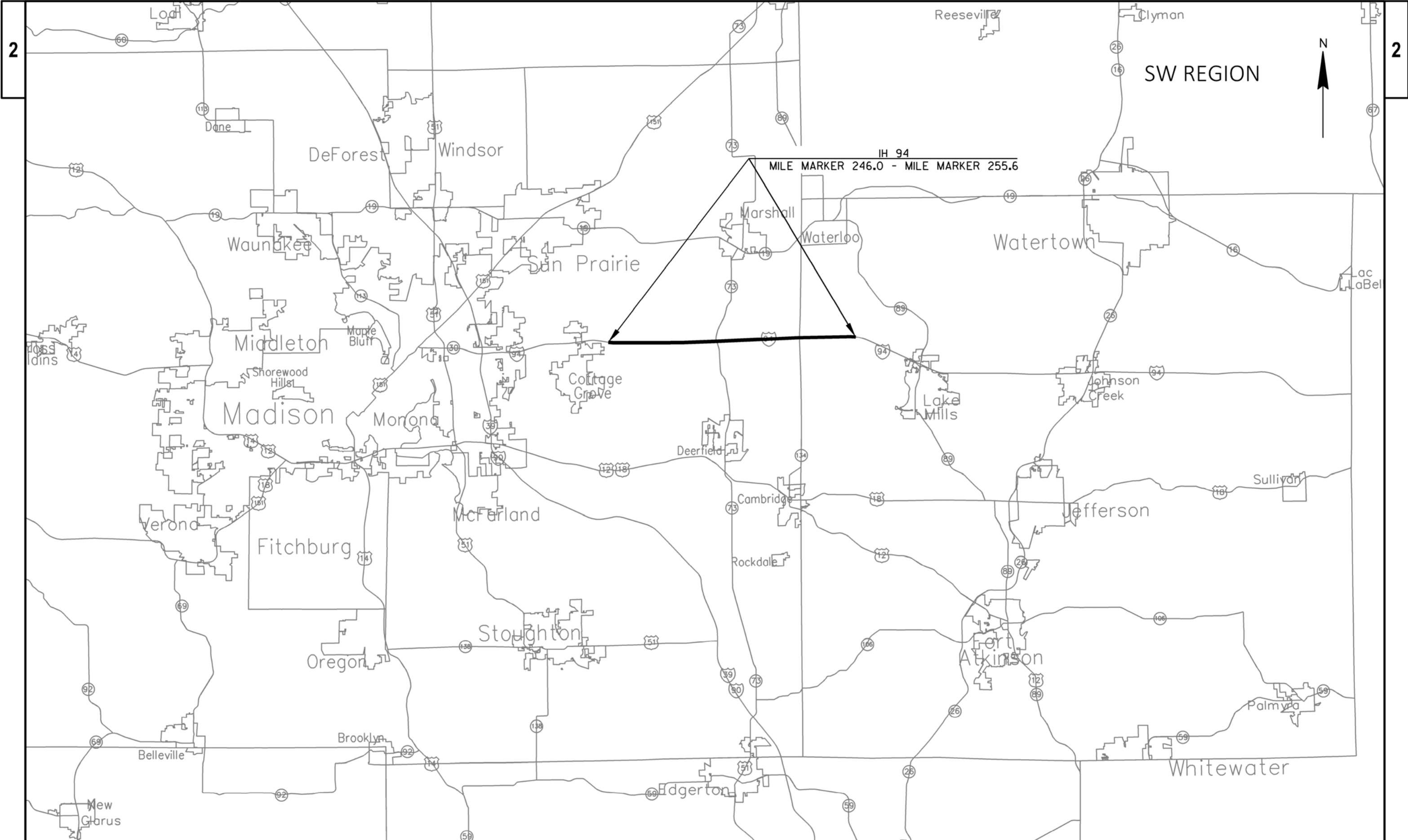


PROJECT NO: 1000-01-48	HWY: VAR HWY	COUNTY: ADAMS/PORTAGE/WAUSHARA/WOOD	OVERVIEW	SHEET	E
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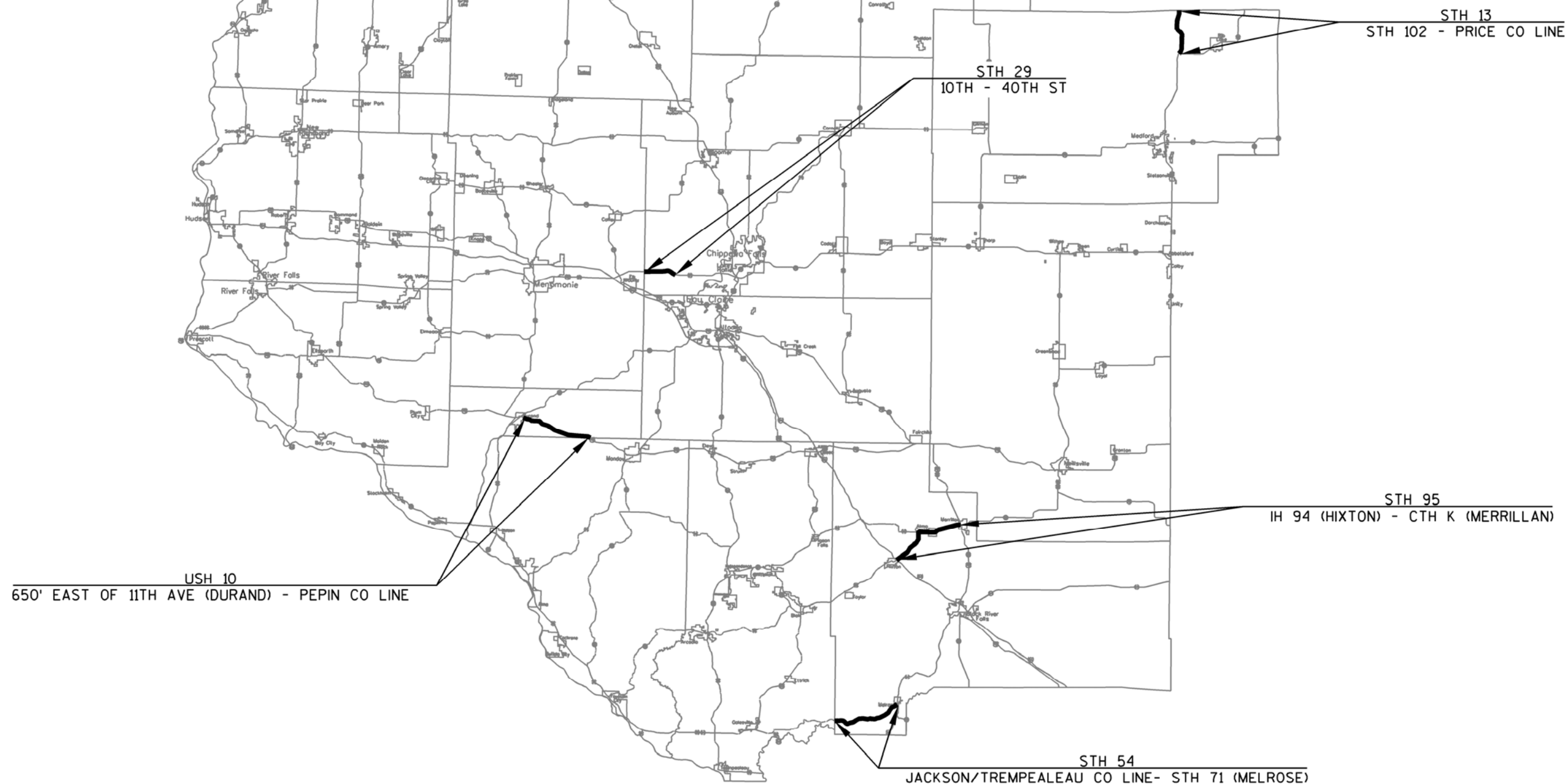


PROJECT NO: 1000-01-48	HWY: VAR HWY	COUNTY: MONROE	OVERVIEW	SHEET	E
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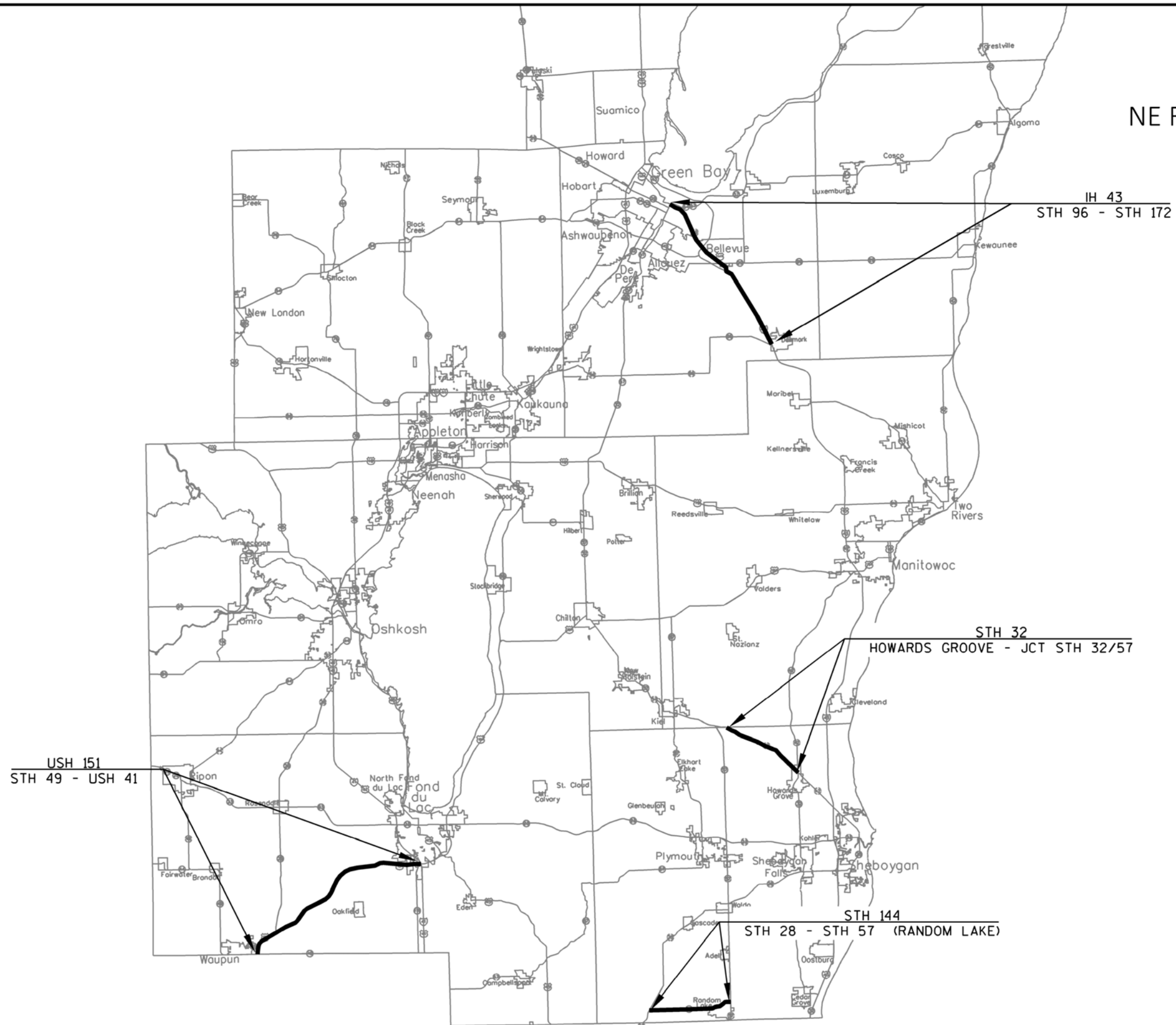


PROJECT NO: 1000-01-48	HWY: VAR HWY	COUNTY: DANE / JEFFERSON	OVERVIEW	SHEET	E
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NW REGION



PROJECT NO: 1000-01-48	HWY: VAR HWY	COUNTY: CHIPPEWA/PEPIN/TAYLOR/JACKSON	OVERVIEW	SHEET	E
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1



Estimate Of Quantities

1000-01-48

Line	Item	Item Description	Unit	Total	Qty
0002	619.1000	Mobilization	EACH	1.000	1.000
0004	646.1020	Marking Line Epoxy 4-Inch	LF	3,990,357.000	3,990,357.000
0006	646.3020	Marking Line Epoxy 8-Inch	LF	130,995.000	130,995.000
0008	646.5020	Marking Arrow Epoxy	EACH	151.000	151.000
0010	646.5120	Marking Word Epoxy	EACH	84.000	84.000
0012	646.5320	Marking Railroad Crossings Epoxy	EACH	12.000	12.000
0014	646.5420	Marking Aerial Enforcement Bar Epoxy	EACH	40.000	40.000
0016	646.6120	Marking Stop Line Epoxy 18-Inch	LF	2,357.000	2,357.000
0018	646.6220	Marking Yield Line Epoxy 18-Inch	EACH	36.000	36.000
0020	646.7020	Marking Diagonal Epoxy 6-Inch	LF	512.000	512.000
0022	646.7120	Marking Diagonal Epoxy 12-Inch	LF	4,283.000	4,283.000
0024	646.8120	Marking Curb Epoxy	LF	1,084.000	1,084.000
0026	646.8220	Marking Island Nose Epoxy	EACH	37.000	37.000
0028	648.0100	Locating No-Passing Zones	MI	16.600	16.600
0030	SPV.0090	Special Marking Crosswalk Epoxy Transverse Line 12-Inch	LF	734.000	734.000
0032	SPV.0105	Special Traffic Control	LS	1.000	1.000

Adams/Waushara County
Adams Co Line to Winnebago Co Line
Skip Coloma to Wautoma

Route	Start Location	End Location	646.1020 Epoxy 4-IN		646.3020 Epoxy 8-IN	646.5020 Arrow Epoxy Type 2 EACH	646.5120 Word Epoxy Only EACH	646.6120 Stop Line Epoxy 18-IN	646.7120 Diagonal Epoxy 12-IN		Comments
			Yellow LF	White LF	White LF			White LF	Yellow LF	White LF	
STH 21	Adams Co Line	3rd Ave (Coloma)	63,426	253,664							Project Skip
	3rd Ave (Coloma)	STH 22/73 (Wautoma)									
	STH 22/73 (Wautoma)	Winnebago Co Line	138,649	215,440							
	CTH Z				422	4	4	100	254		Special markings on STH 13 only
	STH 13				212						
	CTH G				422						
	CTH V				422						Project Skip
	3rd Ave (Coloma)	STH 22/73 (Wautoma)									
	STH 21/22 (Waupaca St/Main St)							85			
	STE Marie St							87			
	Oxford								85		
	Northwestern								94		
	Sand Crest								100		Special Markings on STH 152 Only. Stop line only on Townline Rd
	STH 152				396	5	3	50	400		
	17th				200	4					
	Plaza Rd/E Division St				230			140			Mainline+Sideroad Stop Bars Do not paint diagonals
	Stone Ridge Drive				150						
	Century Dr				150						
	West of 18th	Hwy 73				28					TWLTL
	Elm St				110						Special Markings on STH 73 Only. Stopline only on Fairway view Ln
	Shangrila Ln				119						
	Hillside Rd				111						
	STH 73				378	3	3	105	84	260	
	20th Dr				218						
	22nd Ave				736				520		
	CTH Z				380						Stopline on CTH EE only
	CTH S				422						
	CTH EE/ 1st Ave				218						
	North CTH EE/Pine River St							68			Special markings on STH 49 Only
	29th Ave				217						
	STH 49				162			68			
	CTH XX				403						
	CTH Z										
Sub Totals			202,075	469,104	6,078	44	10	703	1,537	260	

*Do not paint stop bars unless noted

3

Wood/Portage County
Wisconsin Rapids to Plover

Route	Start Location	End Location	646.1020 Epoxy 4-IN		646.3020 Epoxy 8-IN White LF	646.5020 Arrow Epoxy Type 2 EACH	646.5120 Word Epoxy Only EACH	646.5320 Railroad Crossing Epoxy White EACH	646.6120 Stop Line Epoxy 18-IN White LF	646.6220 Yield Line 18-IN Epoxy White EACH	646.7020 Diagonal Epoxy 6-IN Yellow LF	646.7120 Diagonal Epoxy 12-IN		Comments
			Yellow LF	White LF								Yellow LF	White LF	
STH 54	26th St (East Limits Wisconsin Rapids)	Bus 51/CTH B (Plover)	132,045	165,518										
	26th St	32nd			235									Median
	32nd St	48th ST						4						
	32nd St				100									
	36th ST				100									
	37th St				110									
	40th St				90									
	42nd St				275									
	48th St				120									
	52nd St				140									
	54th St				200	2								
	61st St				525									
	64th St				725	6	3							
	72nd St	(J-Turn)			10,615	16	16		48	36	512		2,000	
	CTH U (J-Turn)				140									
	84th St				160									
	90th St				160									
	100th St				158									
	Plant Entrance				694									
	110th				310									
	Johnson Ave				550									
	CTH F & Pierce				160									
	Forest Lake Dr				170									
	Meehan Dr				600									
	Hayes				200									
	Monroe				290									
	Coolidge Ave				200			4						
	Grant Ave													
	RxR				470									
	Nassau Blvd				100									
	Evergreen Dr													
	Evergreen Dr	Bimini Ct			460	2								Median
	Bimini Ct													
	Jackson Ave													
	Jackson Ave	Foremost Rd				4								Median
	Foremost Rd				250									
	Foremost Rd	Cleveland Ave				2								Median
	Cleveland Ave				225									
	Cleveland Ave	Wilson Ave				2								Median
	Wilson Ave				220	2								
	Wilson Ave	Bus 51				4								Median
	Bus 51				523				108					
Sub Totals			132,045	165,518	19,275	40	19	8	156	36	512	0	2,000	

3

PROJECT NO: 1000-01-48

HWY: STH 54

COUNTY: WOOD / PORTAGE

MISCELLANEOUS QUANTITIES

SHEET NO:

E

FILE NAME : _____

PLOT DATE : _____

PLOT BY : _____

PLOT NAME : _____

ORG DATE : _____

ORIGINATOR : DIST _

PLOT SCALE : 1:1

Grant County
Fennimore to Boscobel

Grant County Fennimore to Boscobel			646.1020 Epoxy 4-IN		646.3020 Epoxy 8-IN	646.5020 Arrow Epoxy		646.5120 Word Epoxy			646.6120 Stop Line Epoxy 18-IN	
Route	Start Location	End Location	Yellow LF	White LF	White LF	Type 2 EACH	Type 3 EACH	Only EACH	Stop EACH	Ahead EACH	White LF	Comments
USH 61 NB/SB	0.12 Miles South of 18 th St (Fennimore)	Dwight St (Boscobel)	83,449	106,616	1254							Lane Lines
	0.12 Miles South of 18 th St (Fennimore)	Dwight St (Boscobel)		1,667								
USH 61 NB/SB	0.02 North of STH 133 East (Boscobel)	STH 60 (North of Boscobel)	7,268	9,335								
USH 61 NB	USH 18 (South Junction) Ideal Rd CTH T STH 60	(Fennimore)			114	2	1	1			23	
		Right Turn Lane			122							
		Right Turn Lane			124							
					238	4		4	1	1	36	
USH 61 SB	STH 133 (South Junction) Stenner Hill Rd CTH T USH 18 (North Junction)	Right Turn Lane			436						40	
		Right Turn Lane			119							
					114							
		(Fennimore)			110	2	2	1			34	
Sub Totals			90,717	117,618	2,631	8	3	6	1	1	133	

Monroe County Emerson Rd to East of IH 94 (Tomah)											
Route	Start Location	End Location	646.1020 Epoxy 4-IN		646.3020 Epoxy 8-IN White LF	646.5020 Arrow Epoxy Type 2 EACH	646.5120 Word Epoxy Only EACH	646.6120 Stop Line Epoxy 18-IN White LF	646.8120 Curb Epoxy Yellow LF	646.8220 Island Nose Epoxy Yellow EACH	Comments
			Yellow LF	White LF							
STH 21 EB	Emerson Rd (Tomah)	0.51 Miles East of IH 94 (Tomah)	5,447	7,234							
	Emerson Rd (Tomah)	0.51 Miles East of IH 94 (Tomah)	3,942								Centerline
	Emerson Rd (Tomah)	0.51 Miles East of IH 94 (Tomah)		1,227							Lane lines
	Emerson Rd Right Turn Lane Beginning of Island 420 Feet West of Buan St Buan St STH 21				94 300	 4	 3	 49 42	10 20	1 2	
Buan St STH 21 EB	USH 12 Wittig Rd Right & Left Turn Lanes IH 94 Eastbound On Ramp Right Turn Lane IH 94 Westbound On Ramp Left Turn Lane IH 94 Westbound Off Ramp Eaton Ave Right and Left Turn Lanes	Includes Dual Left Turn Lane Mini Dashes		24	554 480 145 239 351	4 4 2 2 4	4 3 1 2 3	55 36 54	20 20 33 85 46	2 2 1 1 1	 Lane Lines
STH 21 WB	0.51 Miles East of IH 94 (Tomah)	Emerson Rd (Tomah)	5,400	7,310							
	0.51 Miles East of IH 94 (Tomah)	Emerson Rd (Tomah)		1,281							Lane Lines
	Beginning of Island 600 Feet East of Vandervort St Vandervort St Left & Right Turn Lanes IH 94 Westbound On Ramp Right Turn Lane IH 94 Eastbound On Ramp Left Turn Lane Wittig Rd Left & Right Turn Lanes				354 175 265 393	4 2 2 4	3 2 2 4	44 	10 44 87 76 20	1 1 1 1 2	
	USH 12 Sam Walton Ave STH 21 Emerson Rd Right Turn Lane	Includes Dual Left Turn Lane Mini Dashes		27	334 427 110	3 4	3 4	53 54 40	20 42	2 1	 Lane Lines
Sam Walton Ave STH 21 WB											
Sub Totals			14,789	17,103	4,221	39	34	427	533	19	

Monroe County
STH 131 to CTH CA (Tomah)

Route	Start Location	End Location	646.1020 Epoxy 4-IN		646.3020 Epoxy 8-IN	646.5020 Arrow Epoxy		646.5120 Word Epoxy Only	646.6120 Stop Line Epoxy 18-IN	646.7120 Diagonal Epoxy 12-IN	SPV.0090.01 Crosswalk Epoxy Transverse Line 12-IN	646.8120 Curb Epoxy Yellow	646.8220 Island Nose Epoxy Yellow	Comments
			Yellow LF	White LF	White LF	Type 1 EACH	Type 2 EACH	EACH	White LF	Yellow LF	White LF	LF	EACH	
USH 12 EB	STH 131, Superior Ave (Tomah)	0.28 Miles East of CTH CA, Academy Ave (Tomah)	7,610	9,134										Centerline Lane Lines
	STH 131, Superior Ave (Tomah)	0.28 Miles East of CTH CA, Academy Ave (Tomah)	8,229											
	STH 131, Superior Ave (Tomah)	0.28 Miles East of CTH CA, Academy Ave (Tomah)		2,256										
	STH 16, STH 131	Intersection Stop Line							36					
	USH 12, STH 131	Intersection Stop Line and Crosswalk							29		130			
USH 12 WB	STH 16, STH 131	Intersection			308	1	4	3	55		156			
STH 131 NB	USH 12, STH 16	Intersection Stop Line and Crosswalk							37		166			
USH 12 EB	Grain Ave (Start Painted Median)	850 Feet East of Grain Ave								341				
	Sime Ave	Left Turn Lane and Median			372							49	1	
	Old Dominion Freight Line Entrance	Right Turn Lane and Median			206							10	1	
	Rezin Rd	Right and Left Turn Lanes and Median			297							10	1	
	IH 90 Westbound On Ramp	Right Turn Lane			312									
USH 12 WB	IH 90 Eastbound On Ramp	Left Turn Lane			452							20	1	
	IH 90 Eastbound Off Ramp								26					
	CTH CA, Academy Ave	Right and Left Turn Lanes			238									
	Commercial Entrance (Toro, Inc.)	Right Turn Lane			207									
USH 12 WB	0.28 Miles East of CTH CA, Academy Ave (Tomah)	STH 131, Superior Ave (Tomah)	7,368	7,689										Lane Lines
	0.28 Miles East of CTH CA, Academy Ave (Tomah)	STH 131, Superior Ave (Tomah)		2,261										
	700 Feet East of CTH CA, Academy Ave	1000 Feet East of CTH CA, Academy Ave								145				
	Sime Ave	Right Turn Lane and Median			350				30			30	1	
	Old Dominion Freight Line Entrance	Left Turn Lane and Median			553							10	1	
	Rezin Rd	Right and Left Turn Lanes and Median			204							10	1	
	IH 90 Eastbound On Ramp				85							20	1	
	IH 90 Westbound On Ramp	Left Turn Lane			224									
	IH 90 Westbound Off Ramp	Island Gore			980				25					
	CTH CA, Academy Ave	Right and Left Turn Lanes			237									
Sub Totals			23,207	21,340	5,025	1	4	3	238	486	452	159	8	

Monroe County
STH 21 to Arthur St (Tomah)

Route	Start Location	End Location	646.1020 Epoxy 4-IN		646.3020 Epoxy 8-IN	646.5020 Arrow Epoxy	646.5120 Word Epoxy	646.5320 Railroad Crossing	646.6120 Stop Line Epoxy 18-IN	SPV.0090.01 Crosswalk Epoxy Transverse Line 12-IN	646.8120 Curb Epoxy	646.8220 Island Nose Epoxy	Comments
			Yellow LF	White LF	White LF	Type 2 EACH	Only EACH	White EACH	White LF	White LF	Yellow LF	Yellow EACH	
USH 12 EB	STH 21, McCoy Blvd (Tomah)	Arthur St (Tomah)	9,220	7,585									Edgelines
	STH 21, McCoy Blvd (Tomah)	Arthur St (Tomah)		2,384									Lane Lines
	STH 21 Buan St 0.36 Miles East of STH 21	Intersection Turn Lanes Right Turn Lane Rail Crossing			471 189	4	3		64		20	2	
	Julie St Left Turn Lane												
	CTH ET Left Turn Lane				225 162				51 26	107 68	17 52		
	CTH ET												
	USH 12												
	900 Feet West of Jefferson St										20 10	1 1	
	Jefferson St												
	Arthur St				166								
USH 12 WB	Arthur St (Tomah)	STH 21, McCoy Blvd (Tomah)	9,285	8,124									Edgelines
	Arthur St (Tomah)	STH 21, McCoy Blvd (Tomah)		2,430									Lane lines
	STH 21 Wittig Rd 0.36 Miles East of STH 21	Includes Dual Left Turn Lane Mini Dashes Rail Crossing		36	440 382	6	5		58		20 76	2 1	Lane lines
	Warren St				149 126								
	Julie St												
	CTH ET								48	107	61 16	1	
	CTH ET Left Turn Lane				363								
CTH ET WB	USH 12								32				
USH 12 WB	Jefferson St				81						80 20	1 1	
	Arthur St												
Sub Totals			18,505	20,559	2,754	10	8	4	279	282	392	10	

Dane/Jefferson County
MM 246.0 to MM 255.6

Route	Start Location	End Location	646.1020 Epoxy 4-IN		646.3020 Epoxy 8-IN White LF	646.5420 Aerial Enforcement Bars Epoxy White EACH	646.6120 Stop Line Epoxy 18-IN White LF	Comments
			Yellow LF	White LF				
IH 94 EB	Mile Marker 246.0 (1.35 Miles East of CTH N) (Dane County)	Mile Marker 255.6 (1.40 Miles East of CTH O) (Jefferson County)	50,160	48,494				Edgelines
	Mile Marker 246.0 (1.35 Miles East of CTH N) (Dane County)	Mile Marker 255.6 (1.40 Miles East of CTH O) (Jefferson County)		12,640				Lane Lines
	Mile Marker 249.4 Exit 250 at STH 73 Exit 250 at STH 73	Mile Marker 249.9 Off Ramp On Ramp	569 652	1,575 2,118	50	10	37	West of STH 73
IH 94 WB	Mile Marker 255.6 (1.40 Miles East of CTH O) (Jefferson County)	Mile Marker 245.9 (1.34 Miles East of CTH N) (Dane County)	52,338	50,949				
	Mile Marker 255.6 (1.40 Miles East of CTH O) (Jefferson County)	Mile Marker 245.9 (1.34 Miles East of CTH N) (Dane County)		11,248				
	Mile Marker 250.5 Exit 250 at STH 73 Exit 250 at STH 73	Mile Marker 251.9 Off Ramp On Ramp	906 486	1,602 2,002	50	10	39	East of STH 73
Sub Totals			105,111	130,628	100	20	76	

Chippewa County
10th St to 40th St

			646.1020 Epoxy 4-IN		646.3020 Epoxy 8-IN	Comments
Route	Start Location	End Location	Yellow LF	White LF	White LF	
STH 29	10th St near Chippewa/Dunn Co Line	40th St	30,700	30,900		Edgelines Only
STH 29 EB	20th St				357	
	CTH M/30th St				453	
	40th St				401	
STH 29 WB	CTH M/30th St				439	
	20th St				248	
	10th				254	
SubTotals			30,700	30,900	2,152	

*Do not paint lane lines.

Pepin County
650' East of 11th Ave to Pepin/Buffalo Co Line

			646.1020 Epoxy 4-IN		646.3020 Epoxy 8-IN	Comments
Route	Start Location	End Location	Yellow LF	White LF	White LF	
USH 10	650' East of 11th Ave (Durand) Cooperative Ln	Pepin/Buffalo Co Line	62,937	84,269	183	
Sub Totals			62,937	84,269	183	

Taylor County
STH 102 to Taylor/Price Co Line

			646.1020 Epoxy 4-IN		646.3020 Epoxy 8-IN	Comments
ROUTE:	Start Location	End Location	Yellow LF	White LF	White LF	
STH 13	STH 102 Wayside CTH D	Taylor/Price Co Line	30,728	58,232	203 394	
Sub Totals			30,728	58,232	597	

Jackson County IH 94 to CTH K, Merrillan			646.1020 Epoxy 4-IN		646.3020 Epoxy 8-IN	Comments
Route	Start Location	End Location	Yellow LF	White LF	White LF	
STH 95	IH 94 Start of Divided (Hixton)	CTH K (Merrillan)	61,359	104,184		
STH 95 EB	94 EB On Ramp 95				186	
	94 WB On Ramp 95				167	
	CTH FF				196	
	STH 121				243	
STH 95 WB	STH 121				236	
	94 WB On Ramp 95				139	
	94 EB On Ramp 95				200	
Sub Totals			61,359	104,184	1,367	

Jackson County Jackson/Trempealeau Co Line to STH 71			646.1020 Epoxy 4-IN		646.3020 Epoxy 8-IN	Comments
Route	Start Location	End Location	Yellow LF	White LF	White LF	
STH 54	Jackson/Trempealeau Co Line STH 71	STH 71 (Melrose)	83,192	91,408	84	
Sub Totals			83,192	91,408	84	

Sheboygan County
Howards Groove to STH 32/ STH 57

			646.1020 Epoxy 4-IN		Comments
Route	Start Location	End Location	Yellow LF	White LF	
STH 32	Howards Groove	Jct STH 32/STH 57	40,000	5,250	In town only. Continue NB Edgeline 285' past curb and gutter
Sub Totals			40,000	5,250	

*Do not paint channelizing lines or lane lines

Brown County
STH 96 to STH 172

Brown County STH 96 to STH 172			646.1020 Epoxy 4-IN		646.3020 Epoxy 8-IN	
Route	Start Location	End Location	Yellow LF	White LF	White LF	Comments
IH 43 NB	STH 96	STH 172	51,100	47,100		Edgelines Only
	STH 96 Off Ramp		1,100	1,565	75	
	STH 96 On Ramp		1,070	2,115		
	USH 141/STH 29/CTH MM Off Ramp		1,100	1,620	75	
	USH 141/STH 29/CTH MM On Ramp		920	2,145		
IH 43 SB	STH 96	STH 172	51,100	47,100		Edgeline Only
	USH 141/STH 29/CTH MM Off Ramp		1,425	1,925	75	
	USH 141/STH 29/CTH MM On Ramp		900	2,130		
	STH 96 Off Ramp		1,160	1,600	75	
	STH 96 On Ramp		1,050	2,370		
Sub Totals			110,925	109,670	300	

*Do not paint lane lines or gores.

Sheboygan County
STH 28 to Jct STH 57 Random Lake

Sheboygan County STH 28 to Jct STH 57 Random Lake			646.1020 Epoxy 4-IN		646.3020 Epoxy 8-IN	646.6120 Stop Line Epoxy 18-Inch	
Route	Starte Location	End Location	Yellow LF	White LF	White LF	White LF	Comments
STH 144	STH 28	Jct STH 57 (Random Lake)	45,200				Centerline Only
	Jct STH 28					40	
Sub Totals			45,200	0	0	40	

*Do not paint edgelines or channelizing lines.

Fond Du Lac County
STH 49 to USH 41

Fond Du Lac County STH 49 to USH 41			646.1020 Epoxy 4-IN		646.3020 Epoxy 8-IN	646.5020 Arrow Epoxy Type 2 EACH	646.5120 Word Epoxy Only EACH	646.5420 Aerial Enforcement Bars Epoxy White EACH	646.6120 Stop Line Epoxy 18-Inch White LF	
ROUTE:	Start Location	End Location	Yellow LF	White LF	White LF					Comments
USH 151	STH 49	USH 41	165,800	160,400						Edgelines Only
USH 151 NB	STH 26 NB	CTH AS		45				10	40	Exit Gore Mini Dash
	STH 26 Off Ramp		7,100	8,860						
	STH 26 MB On/Service Road		2,000	3,530						
	Hickory Dr									
	CTH D Off Ramp		6,625	8,090					40	5 Sets
	CTH D On Ramp		2,635	3,910						
	Hickory St Off Ramp		1,140	1,710						
	Hickory St On Ramp		955	2,325						
STH 175 Ramp	1,820	1,480	165	1	1	75				
USH 151 SB	STH 175 Ramp	CTH AS	1,800	1,800	165	1	1	10	75	5 Sets
	Hickory St Off Ramp		1,190	1,750			35			
	Hickory St On Ramp		1,165	2,430						
	Hazel Rd									
	CTH D Off Ramp		975	1,510	25		40			
	CTH D On Ramp		3,145	4,450						
	STH 26 Off Ramp		1,675	2,205						
	STH 26 On Ramp		1,215	3,780						
Interchanging Roadway	Hickory St Overpass				1,055					Between ramps
	CTH D Overpass			400	745					Turn Lanes between ramps
	Business STH 26		9,420	11,305	2,625					Ramp Gores and Edgelines
Sub Totals			208,660	219,980	4,780	2	2	20	305	

*Do not paint Lane Lines or Gores

Waukesha County STH 164 to STH 16			646.1020 Epoxy 4-IN		646.3020 Epoxy 8-IN	Comments
Route	Start Location	End Location	Yellow LF	White LF	White LF	
STH 190	STH 164	STH 16	14,256	14,256		Edgelines
	STH 164	STH 16		3,564		Lanelines
STH 190 EB	Cecilia Dr				106	
	Crossover				158	
	Forest Grove Dr				422	
	Westfield Way				792	
STH 190 WB	Willow Grove Dr				211	
	Meadow Creek Dr				739	
	STH 164				845	
	Private Dr				317	
STH 190 WB	Meadow Creek Dr				1,109	
	Willow Grove Dr				317	
	Private Dr				211	
	Westfield Way				897	
STH 190 WB	Forest Grove Dr				528	
	Crossover				370	
	STH 16				106	
Sub Totals			14,256	17,820	7,128	

Washington County
CTH Q to IH 41/USH 45 (Split)

Route	Start Location	End Location	646.1020 Epoxy 4-IN		646.3020 Epoxy 8-IN	Comments
			Yellow LF	White LF	White LF	
IH 41	CTH Q	Construction Joint at IH 41/USH 45 (Split)	64,602	64,602		Mainline Edgelines
IH 41 NB	CTH Q Off Ramp		736	1,054	1,054	Channelizing and Island Gore
	CTH Q On Ramp		958	1,661		
	STH 167/Lannon Rd Off Ramp		765	1,018	642	Island Gore
	STH 167/Lannon Rd On Ramp		728	1,404	198	Channelizing and Island Gore
	STH 167/Holy Hill Rd Off Ramp		727	1,234		
	STH 167/Holy Hill Rd On Ramp		1,026	1,622		
IH 41 SB	STH 167/Holy Hill Rd Off Ramp		1,095	1,361	100	Island Gore
	STH 167/Holy Hill Rd On Ramp		642	1,258		
	STH 167/Lannon Rd Off Ramp		861	1,034	762	Channelizing and Island Gore
	STH 167/Lannon Rd On Ramp		1,011	1,682		
	CTH Q Off Ramp		886	1,142	704	Channelizing and Island Gore
	CTH Q On Ramp		840	2,952		
Sub Totals			74,877	82,023	3,460	

Do not paint existing Lane Lines or 8-IN Auxillary Lane Lines or Exit Gores (Mainline)

Milwaukee County 84th St to 27th St			646.1020 Epoxy 4-IN		646.3020	Comments
Route	Start Location	End Location	Yellow LF	White LF	Epoxy 8-IN White LF	
IH 894/IH41	84th St	27th St	36,326	36,326		Edgeline
	84th St	27th St		18,163		Lane Lines
	84th St	27th St			6,000	Gores
Sub Totals			36,326	54,489	6,000	

Milwaukee County IH 41/USH 45 to 124th St			646.1020 Epoxy 4-IN		646.3020	Comments
Route	Start Location	End Location	Yellow LF	White LF	Epoxy 8-IN White LF	
STH 100	IH 41/USH 45 - Polk Dr	124th St	14,890	14,890		Edgeline Only
STH 100 NB	IH 41 Off Ramp- Mainline				216	
	IH 41 On Ramp				210	
	Fountain Blvd				740	
	Lilly Rd				127	
	Crossover				90	
STH 100 SB	STH 145				506	
	124th St/Boundary Rd				555	
	Westbrook Crossing				211	
	STH 145				712	
	Executive Dr				158	
	Esquire Rd				106	
	Crossover				106	
	Lilly Rd				106	
	Buick GMC Drive				238	
	IH 41 On Ramp- Mainline				383	
	IH 41 Off Ramp- Mainline				127	
	IH 41 On Ramp - Mainline				195	
	Polk Dr				180	
Sub Totals			14,890	14,890	4,966	

*Do not paint lane lines or gores

Waukesha County
IH 94 to CTH P North

			646.1020 Epoxy 4-IN		646.3020 Epoxy 8-IN	Comments
ROUTE:	Start Location	End Location	Yellow LF	White LF	White LF	
STH 16	CTH P North/ Brown st CTH P North/Brown St	IH 94 IH 94	100,824	100,824 37,461		Edgelines Paint Over Existing Lane Line Tape
STH 16 EB	CTH P/ Brown St Off Ramp		912	1,272	104	
	CTH P/ Brown St On Ramp		935	2,025		
	CTH P/ Sawyer Rd Off Ramp		1,073	1,409	136	
	CTH P/ Sawyer Rd On Ramp		1,002	1,761		
	CTH C Off Ramp		1,254	1,811	154	
	CTH C On Ramp		861	1,824		
	STH 83 Off Ramp		1,500	1,959	707	
	STH 83 On Ramp		838	1,634		
	CTH E Off Ramp		1,200	1,444	136	
	Merton Ave On Ramp		1,192	1,933		
STH 16 WB	Jungbluth Rd Off Ramp		970	1,461	99	
	Jungbluth Rd On Ramp		1,089	1,821		
	CTH KF/ Ryan Rd Off Ramp		1,167	1,578	132	
	CTH KF/ Ryan Rd On Ramp		1,171	2,065		
	Capital Dr/STH 190 Off Ramp		1,270	1,678	462	move only in right lane
	Capital Dr/STH 190 On Ramp		1,097	1,459		
	Grandview Blvd Off Ramp		850	1,545	268	
	Grandview Blvd On Ramp		710	1,671		
	CTH JJ Off Ramp		875	1,252	83	
	CTH JJ On Ramp		784	1,186		
	Capital Dr/STH 190 Off Ramp		957	1,402	168	
	Capital Dr/STH 190 On Ramp		1,304	2,158	721	
	CTH KF/Ryan Rd Off Ramp		1,275	1,690	128	
	CTH KF/Ryan Rd On Ramp		1,216	1,828		
	Jungbluth Rd Off Ramp		1,483	1,928	74	
	Jungbluth Rd On Ramp		1,118	1,883		
	Merton Ave Off Ramp		774	1,023	113	
	CTH E On Ramp		1,044	1,576		
	STH 83 Off Ramp		910	1,178	341	
	STH 83 On Ramp		1,372	2,221		
	CTH C Off Ramp		918	1,395	155	
	CTH C On Ramp		1,072	2,153		
	CTH P/ Sawyer Rd Off Ramp		1,255	1,471	107	
	CTH P/ Sawyer Rd On Ramp		1,069	1,997		
	CTH P/ Brown St Off Ramp		933	1,397	308	
	CTH P/ Brown St On Ramp		923	1,583		
Sub Totals			139,197	197,956	4,396	

*Do not paint gores (Mainline)

Waukesha and Milwaukee County
Moorland Rd to Railroad Bridge West of Zoo Interchange

Waukesha and Milwaukee County Moorland Rd to Railroad Bridge West of Zoo Interchange			646.1020 Epoxy 4-IN		646.3020 Epoxy 8-IN	
Route	Start Location	End Location	Yellow LF	White LF	White LF	Comments
IH 94	Moorland Rd	West of the Zoo Interchange	32,313	32,313		
	Moorland Rd	West of the Zoo Interchange		24,235		Lane Lines
IH 94 EB	Moorland Rd Off Ramp				670	Dashes to Gore/Gore
	Moorland Rd Off Ramp		1,339	1,551	648	Gore
	Moorland Rd On Ramp		2,086	3,122	1,774	
	STH 100 Off Ramp				873	
	STH 100 Off Ramp		1,942	2,555	629	
	IH41 Ramp Gore				1,204	
	STH 100 On Ramp		1,652	1,794	1,734	
IH 94 WB	STH 100 Off Ramp	Auxillary Lane	688	1,826	1,106	
	STH 100 On Ramp		1,256	2,929	1,978	
	1 Mile East of Moorland Rd (S-67-318)				1,250	(3' line 9' gap)
	Moorland Rd 301B Off Ramp				876	Gore
	Moorland Rd 301B Off Ramp		1,063	157	233	Gore
	Moorland Rd 301A Off Ramp				401	
	Moorland Rd 301A Off Ramp		1,030	1,396	235	
	Moorland Rd On Ramp		1,351	1,962	922	
	Sub Totals			44,720	73,840	14,533

Waukesha County
CTH X to Wolf Rd

ROUTE:	Start Location	End Location	646.1020 Epoxy 4-IN		646.3020	Comments
			Yellow LF	White LF	White LF	
STH 59/STH 164	CTH X	Wolf Rd	59,136	59,136		Edgelines
	CTH X	Wolf Rd		14,784		Lane Lines
STH 59 NB	Fox River Pkwy North				158	
	Oakdale Dr/CTH XX				264	
	Center Rd				686	
	West Ave				581	
	Grand Ave				106	
	East Ave/STH 164				475	
	Big Bend Rd				222	
	Sunset Dr				634	
	Blackhawk Trail				158	
	Racine Ave/ CTH Y				211	
	Crossover/Church				106	
	Broadway/ CTH D				264	
	Peral St				211	
	Lincoln Ave				158	
STH 164 NB	Arcadian Ave/STH 59				740	
STH 59 SB	Lincoln Ave				158	
	Pearl St				180	
	Broadway/CTH D				202	
	Crossover/Church				106	
	Racine Ave/CTH Y				201	
	Blackhawk Trail				158	
	Sunset Dr				844	
	Crossover/Infinity Fields				317	
	Big Bend Rd				170	
	East Ave/STH 164				53	
	Grand Ave				317	
	West Ave				475	
	Center Rd				528	
	Oakdale Dr/CTH XX				475	
	Fox River Pkwy South				106	
	CTH X/Genesee Rd				306	
Sub Totals			59,136	73,920	13,094	

Waukesha County IH 94 to Good Hope Rd			646.1020 Epoxy 4-IN		646.3020 Epoxy 8-IN	Comments
Route	Start Location	End Location	Yellow LF	White LF	White LF	
STH 164	IH 94	Good Hope Rd	83,575	83,575		Edgelines
	IH 94	Good Hope Rd		18,955		Lane Lines
STH 164 NB	Stone Ridge Dr				422	
	Busse Rd				422	
	River Wood Dr				264	
	Ridgeview Pkwy				475	
	Hawks Meadow Dr				369	
	River Park Ct				264	
	CTH M				475	
	Paul Rd				317	
	Schuett Dr				475	
	Green Rd				422	
	Rough Hill Rd				475	
	Crossover				106	
	STH 190				581	
	Swan Rd				422	
	Church Ent				1,095	
	Chesterwood				211	
	Lake Park Dr				475	
	Lindsay Rd				475	
	Seven Stones Dr				264	
	CTH K				686	
	Corporate Circle Dr				211	
	Crossover				106	
	N Corporate Cir				475	
	Clover Dr				475	
	Crossover				264	
	Prospect Circle				475	
	CTH VV				528	
	Private Dr				211	
	Crossover				211	
	Stonegate CT				435	
	Railroad Crossing				211	
	Indian Grass Ln				475	
	Good Hope Rd				422	

Waukesha County IH 94 to Good Hope Rd (Continued)			646.1020 Epoxy 4-IN		646.3020 Epoxy 8-IN	Comments
Route	Start Location	End Location	Yellow LF	White LF	White LF	
STH 164 SB	Indian Grass Ln				422	
	Crossover				26	
	Railroad Crossing				106	
	Stonegate Ct				462	
	Crossover				264	
	CTH VV				581	
	Prospect Cir				898	
	Crossover				106	
	Clover Dr				475	
	Richmond Rd				422	
	Crossover				106	
	S Corporate Cir				264	
	CTH K				686	
	Seven Stones Dr				475	
	Lindsay Rd				475	
	Lake Park Dr				475	
	Chesterwood Ln				264	
	Church Ent				1,202	
	Swan Rd				727	
	Private Dr				304	
	STH 190				1,293	
	Crossover				106	
	Rough Hill Rd				528	
	Green Rd				475	
	Scchuett Dr				264	
	Paul Rd				475	
	CTH M				528	
	River Park Dr				158	
	Brandon Oak Dr				422	
	Avondale Blvd				422	
	Riverwood Dr				422	
	Tower Rd				158	
	I-94				687	
Sub Totals			83,575	102,530	27,872	

Region	Route	County	Start Location	End Location	648.0100 Locating No-Passing Zones Mile
NW	USH 63	Washburn	CTH B East, Shell Lake	USH 53	7.8
SE	STH 20	Racine	STH 36	USH 45	7.5
SE	USH 12	Walworth	STH 89	CTH P	1.3
				Total	16.6

Project Wide	619.1000 Mobilization EACH	SPV.0105.01 Traffic Control EACH
TOTALS	1	1

3

Statewide
Epoxy Pavement Marking

Statewide Epoxy Pavement Marking				619.1000 Mobilization	SPV.0105.01 Traffic Control	646.1020 Epoxy 4-IN		646.3020 Epoxy 8-IN	646.5020 Arrow Epoxy			646.5120 Word Epoxy			646.5320 Railroad Crossing Epoxy	646.5420 Aerial Enforcement Bars Epoxy	646.6120 Stop Line Epoxy 18-IN	646.6220 Yield Line Epoxy 18-IN	646.7020 Diagonal Epoxy 6-IN	646.7120 Diagonal Epoxy 12-IN		SPV.0090.01 Crosswalk Epoxy Transverse Line 12-IN	646.8120 Curb Epoxy	646.8220 Island Nose Epoxy	
Region	County	Route	Limits	EACH	EACH	Yellow LF	White LF	White LF	Type 1 EACH	Type 2 EACH	Type 3 EACH	Only EACH	Stop EACH	Ahead EACH	White EACH	White EACH	White LF	White EACH	Yellow LF	Yellow LF	White LF	White LF	White LF	Yellow LF	Yellow EACH
NC	Whole Project	Statewide		1	1																				
	Adams/Waushara County	STH 21	Adams Co Line to Winnebago Co Line Skip Coloma to Wautoma	---	---	202,075	469,104	6,078	---	44	---	10	---	---	---	---	703	---	---	1,537	260	---	---	---	---
	Wood/Portage County	STH 54	Wisconsin Rapids to Plover	---	---	132,045	165,518	19,275	---	40	---	19	---	---	8	---	156	36	512	---	2,000	---	---	---	---
SW	Grant County	USH 61 NB/SB	Fennimore to Boscobel	---	---	90,717	117,618	2,631	---	8	3	6	1	1	---	---	133	---	---	---	---	---	---	---	---
SW	Monroe County	STH 21	Emerson Rd to East of IH 94 (Tomah)	---	---	14,789	17,103	4,221	---	39	---	34	---	---	---	---	427	---	---	---	---	---	---	533	19
SW	Monroe County	USH 12	STH 131 to CTH CA (Tomah)	---	---	23,207	21,340	5,025	1	4	---	3	---	---	---	---	238	---	---	486	---	452	159	8	
SW	Monroe County	USH 12 EB	STH 21 to Arthur St (Tomah)	---	---	18,505	20,559	2,754	---	10	---	8	---	---	4	---	279	---	---	---	---	282	392	10	
SW	Dane/Jefferson County	IH 94 EB	MM 246.0 to MM 255.6	---	---	105,111	130,628	100	---	---	---	---	---	---	20	76	---	---	---	---	---	---	---	---	
NW	Chippewa County	STH 29	10th St to 40th St	---	---	30,700	30,900	2,152	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	
NW	Pepin County	USH 10	650' East of 11th Ave to Pepin/Buffalo Co Line	---	---	62,937	84,269	183	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	
NW	Taylor County	STH 13	STH 102 to Taylor/Price Co Line	---	---	30,728	58,232	597	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	
NW	Jackson County	STH 95	IH 94 to CTH K, Merrilan	---	---	61,359	104,184	1,367	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	
NW	Jackson County	STH 54	Jackson/Trempealeau Co Line to STH 71	---	---	83,192	91,408	84	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	
NE	Sheboygan County	STH 32	Howards Groove to STH 32/ STH 57	---	---	40,000	5,250	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	
NE	Brown County	IH 43 NB	STH 96 to STH 172	---	---	110,925	109,670	300	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	
NE	Sheboygan County	STH 144	STH 28 to Jct STH 57 Random Lake	---	---	45,200	---	---	---	---	---	---	---	---	---	---	40	---	---	---	---	---	---	---	
NE	Fond Du Lac County	USH 151	STH 49 to USH 41	---	---	208,660	219,980	4,780	---	2	---	2	---	---	---	20	305	---	---	---	---	---	---	---	
SE	Waukesha County	STH 190	STH 164 to STH 16	---	---	14,256	17,820	7,128	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	
SE	Washington County	IH 41	CTH Q to IH 41/USH 45 (Split)	---	---	74,877	82,023	3,460	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	
SE	Milwaukee County	IH 894/IH41	84th St to 27th St	---	---	36,326	54,489	6,000	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	
SE	Milwaukee County	STH 100	IH 41/USH 45 to 124th St	--	--	14,890	14,890	4,966	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
SE	Waukesha County	STH 16	IH 94 to CTH P North	---	---	139,197	197,956	4,396	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	
SE	Waukesha and Milwaukee County	IH 94	Moorland Rd to Railroad Bridge West of Zoo Interchange	---	---	44,720	73,840	14,533	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	
SE	Waukesha County	STH 59/STH 164	CTH X to Wolf Rd	---	---	59,136	73,920	13,094	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	
SE	Waukesha County	STH 164	IH 94 to Good Hope Rd	---	---	83,575	102,530	27,872	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	
Sub Totals				1	1	1,727,127	2,263,231	130,995	1	147	3	82	1	1	12	40	2,357	36	512	2,023	2,260	734	1,084	37	
TOTALS				1	1	3,990,357		130,995	151			84			12	40	2,357	36	512	4,283		734	1,084	37	

3

PROJECT NO: 1000-01-48

HWY: VARIOUS

COUNTY: VARIOUS

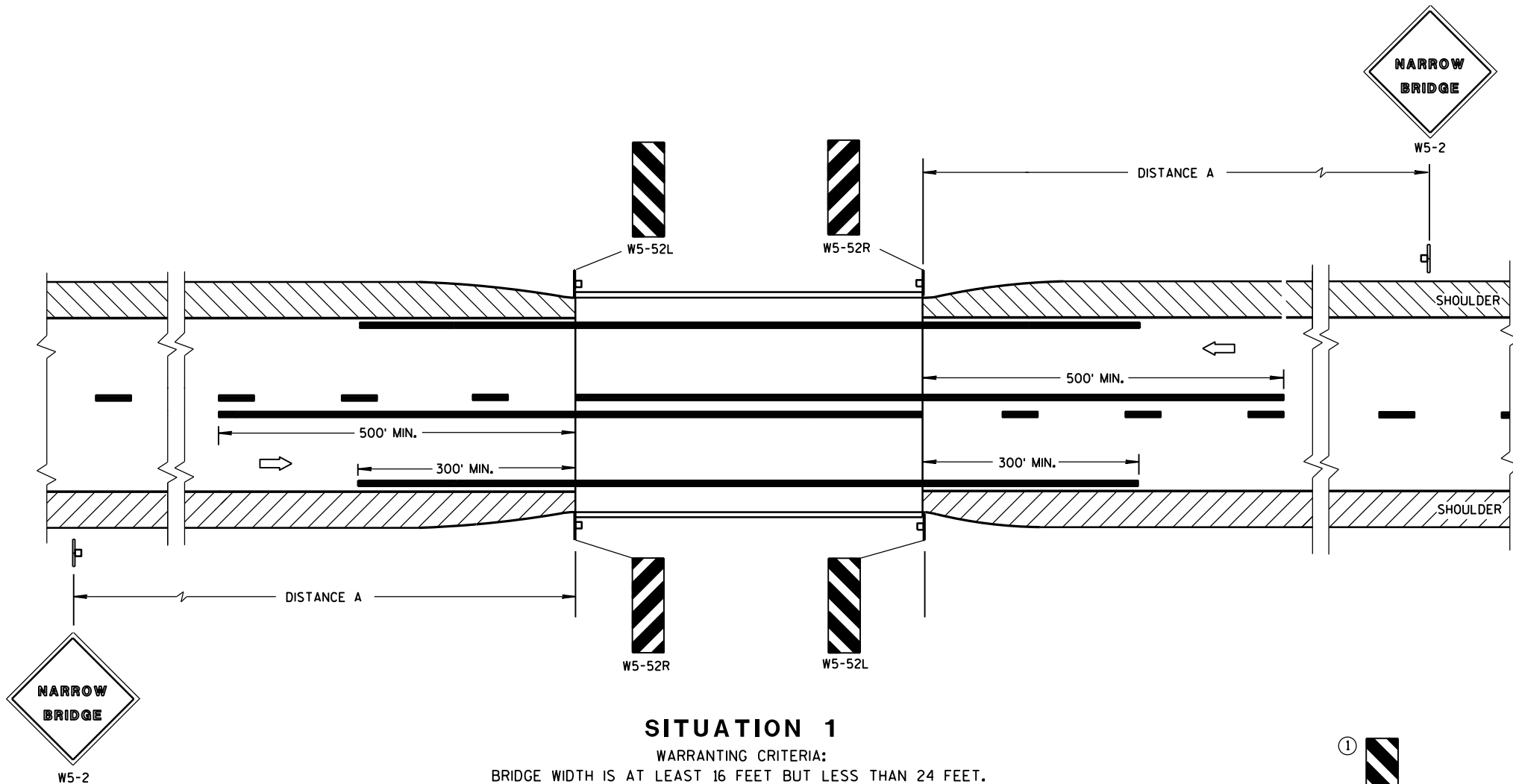
MISCELLANEOUS QUANTITIES

SHEET NO:

E

Standard Detail Drawing List

15C06-09	SIGNING & MARKING FOR TWO LANE BRIDGES
15C07-15A	PAVEMENT MARKING SYMBOLS
15C07-15B	PAVEMENT MARKING WORDS
15C07-15C	PAVEMENT MARKING ARROWS
15C08-20A	LONGITUDINAL MARKING (MAINLINE)
15C08-20B	PAVEMENT MARKING (TURN LANES)
15C08-20C	PAVEMENT MARKING (TURN LANES)
15C09-12A	SIGNING AND PAVEMENT MARKING DETAILS FOR RAILROAD-HIGHWAY GRADE CROSSINGS
15C11-08B	CHANNELIZING DEVICES DRUMS, CONES, BARRICADES AND VERTICAL PANELS
15C12-07	TRAFFIC CONTROL FOR LANE CLOSURE WITH FLAGGING OPERATION
15C14-04	AERIAL ENFORCEMENT BARS PAVEMENT MARKING DETAILS
15C18-04	MEDIAN ISLAND MARKING
15C18-05A	PAVEMENT MARKINGS, MEDIAN ISLANDS
15C18-05B	PAVEMENT MARKINGS, MEDIAN ISLAND NOSE
15C18-05C	PAVEMENT MARKINGS, DOUBLE ARROW WARNING SIGN PLACEMENT
15C19-06A	MOVING PAVEMENT MARKING OPERATION TWO-LANE TWO-WAY ROADWAY
15C19-06B	MOVING PAVEMENT MARKING OPERATION MULTI-LANE UNDIVIDED ROADWAY
15C19-06C	MOVING PAVEMENT MARKING OPERATION MULTI-LANE DIVIDED ROADWAY
15C20-02	YIELD MARKING
15C21-10	SIGNING AND MARKING FOR TWO LANE TO FOUR LANE DIVIDED TRANSITIONS
15C31-03A	PAVEMENT MARKING (RAMPS AND GORES)
15C31-03B	PAVEMENT MARKING MAJOR SPLIT FREEWAY TO FREEWAY
15C31-03C	PAVEMENT MARKING FOR PARALLEL ON-RAMP AND PARALLEL OFF-RAMP
15C33-04	STOP LINE AND CROSSWALK PAVEMENT MARKING
15C35-04A	PAVEMENT MARKING (INTERSECTIONS)
15C35-04B	PAVEMENT MARKING AND SIGNING (CLIMBING LANE & PASSING LANE)
15C35-04C	PAVEMENT MARKING AND SIGNING (CLIMBING LANE & PASSING LANE)
15D12-09A	TRAFFIC CONTROL, LANE CLOSURE
15D12-09B	TRAFFIC CONTROL, LANE CLOSURE, SPEED REDUCTION
15D16-04	TRAFFIC CONTROL, EXIT RAMP CLOSURE
15D20-05A	TRAFFIC CONTROL, SINGLE LANE CLOSURE, NON-FREEWAY/EXPRESSWAY
15D27-03	TRAFFIC CONTROL, SHOULDER CLOSURE ON DIVIDED ROADWAY, SPEEDS GREATER THAN 40 MPH
15D38-02A	TEMPORARY TRAFFIC CONTROL SIGN MOUNTING
15D38-02B	ATTACHMENT OF SIGNS TO POSTS
15D51-01	TRAFFIC CONTROL, MOBILE OPERATIONS ON AN UNDIVIDED ROADWAY

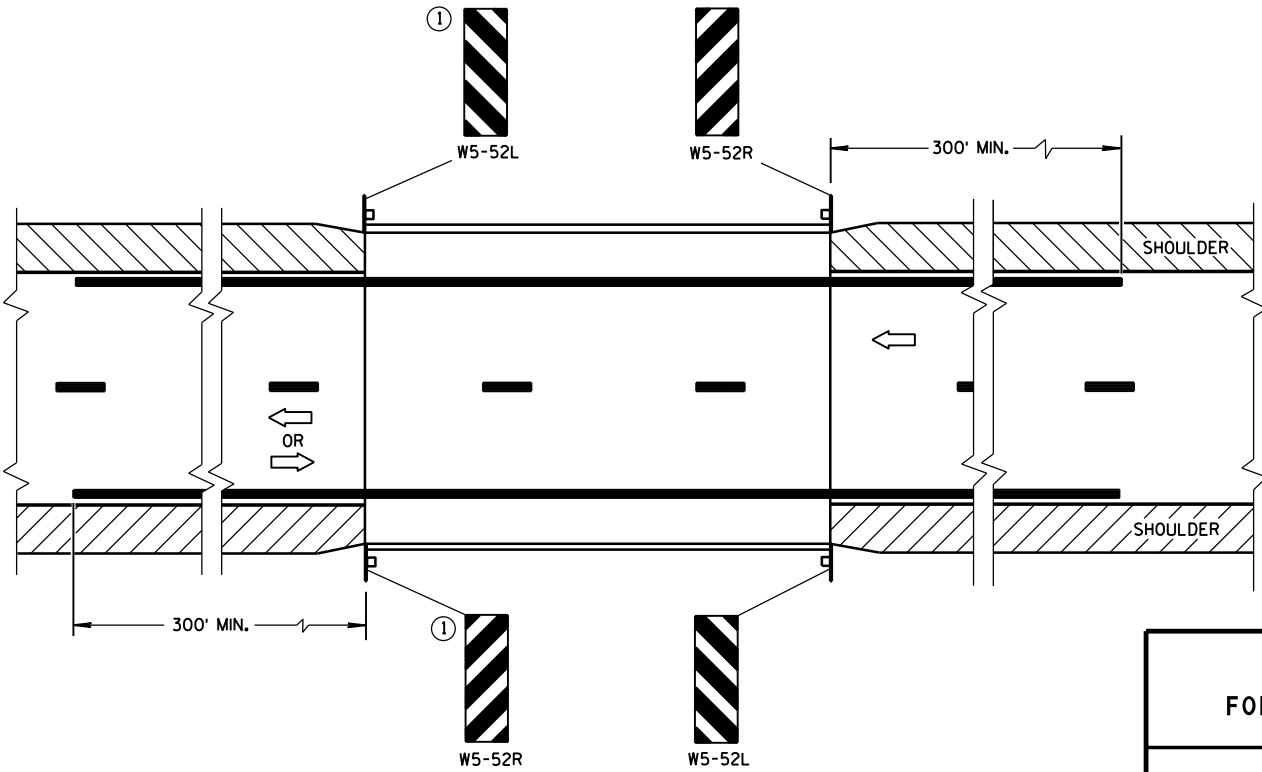


SITUATION 1

WARRANTING CRITERIA:
BRIDGE WIDTH IS AT LEAST 16 FEET BUT LESS THAN 24 FEET.

DISTANCE TABLE

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



SITUATION 2

WARRANTING CRITERIA:
1. BRIDGE WIDTH IS AT LEAST 24 FEET AND
2. BRIDGE SHOULDER WIDTH IS LESS THAN 6 FEET.

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.

LOCATE W5-52 SIGN POST(S) BEHIND GUARDRAIL WHEN PRESENT.

PLACE THE EDGE OF THE W5-52 SIGN IN LINE WITH FACE OF CURB OR PARAPET.

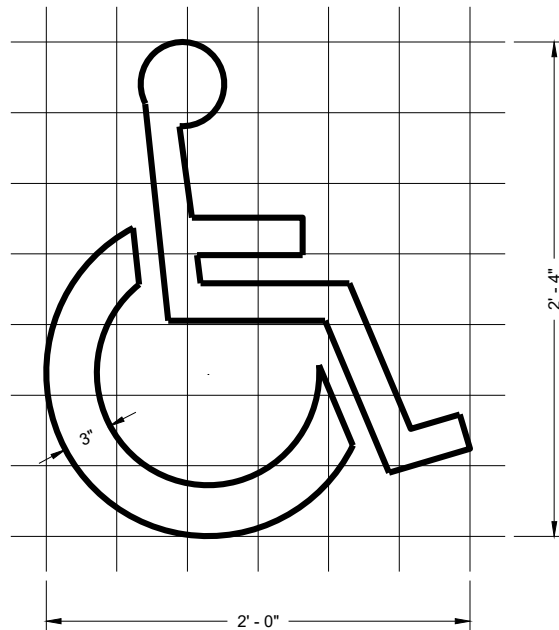
① OMIT ON ONE-WAY TRAVELLED WAYS.

➡ DIRECTION OF TRAFFIC

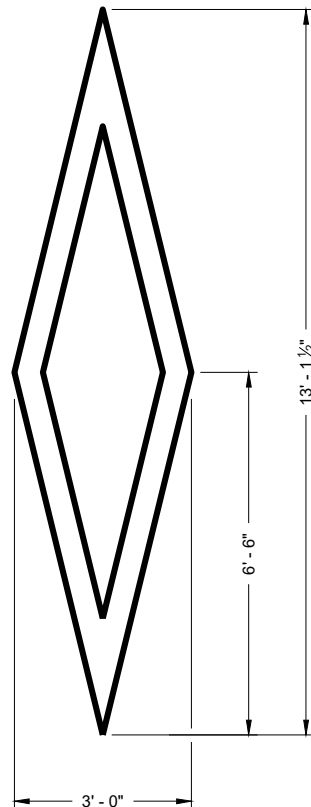
**SIGNING & MARKING
FOR TWO LANE BRIDGES**

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

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



HANDICAP SYMBOL



PREFERENTIAL
LANE SYMBOL

GENERAL NOTES

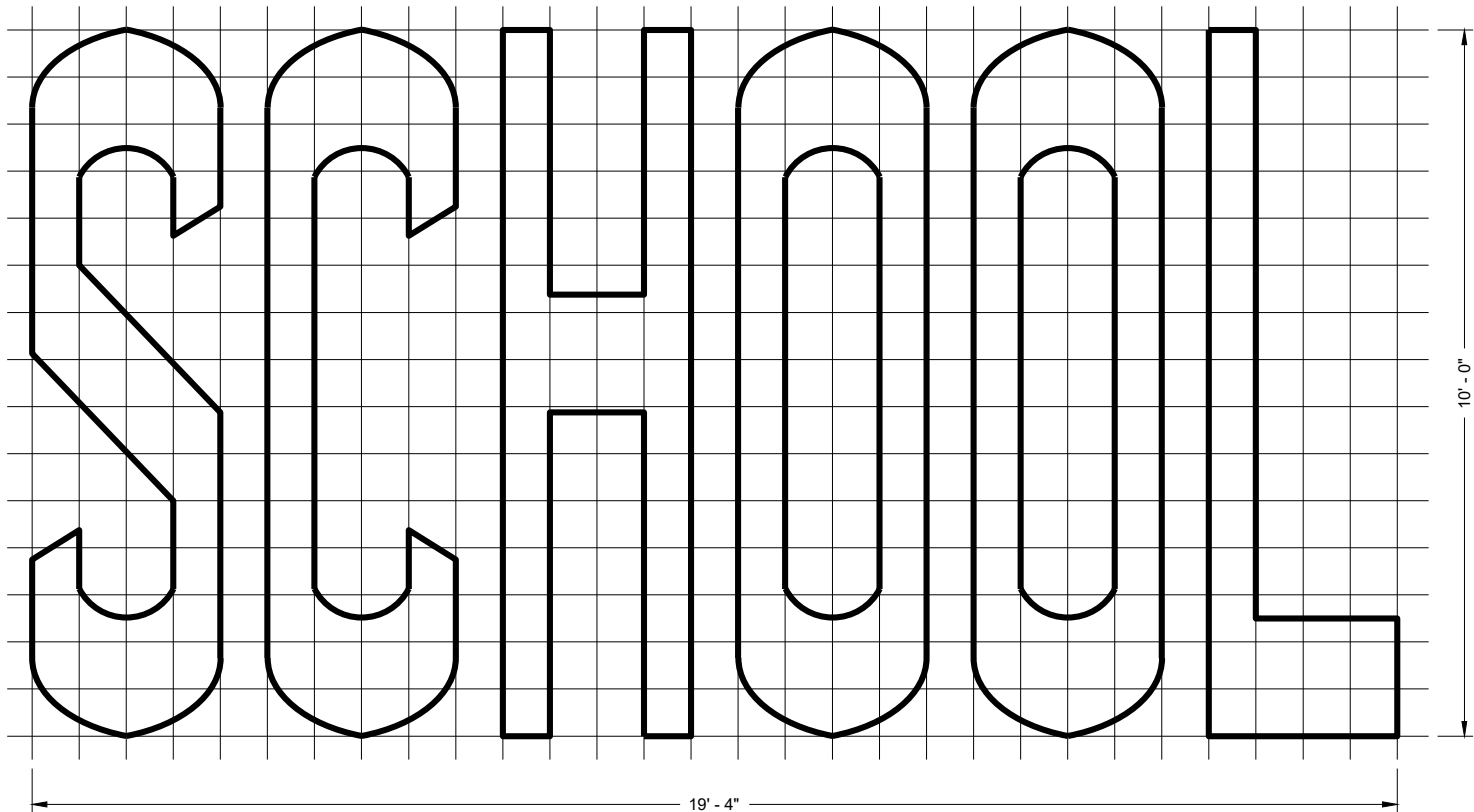
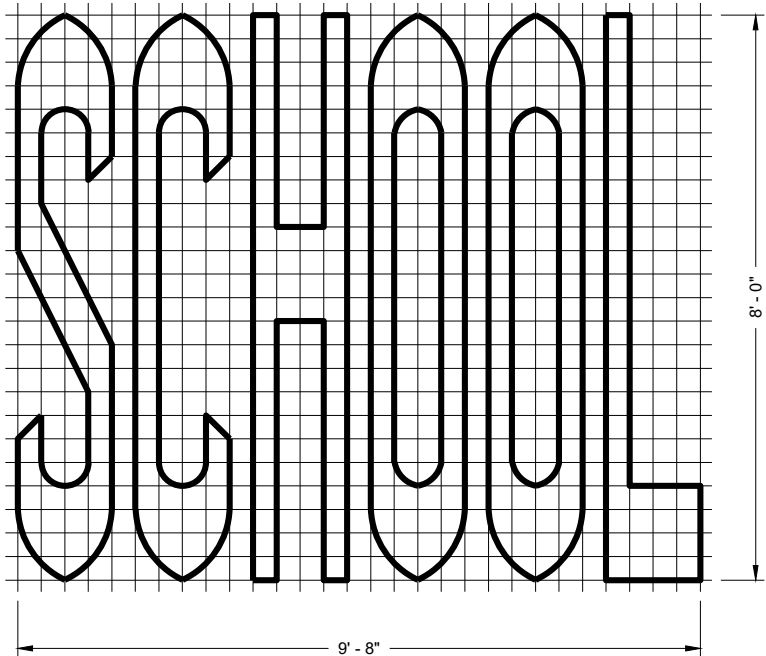
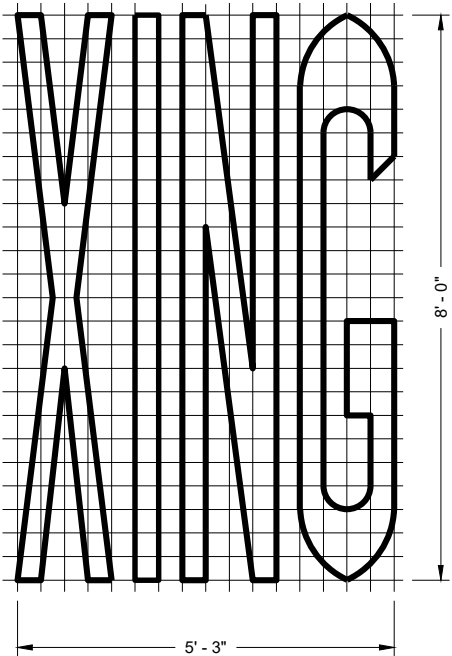
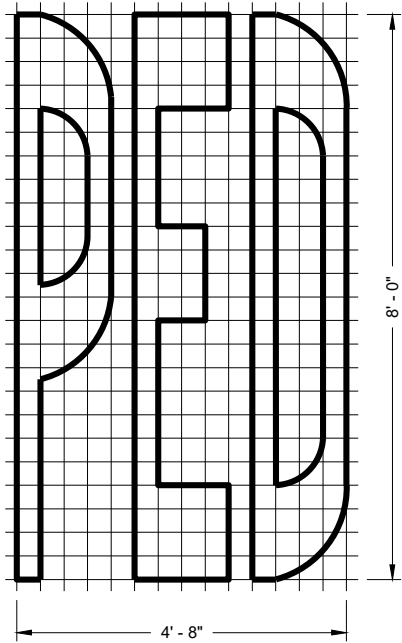
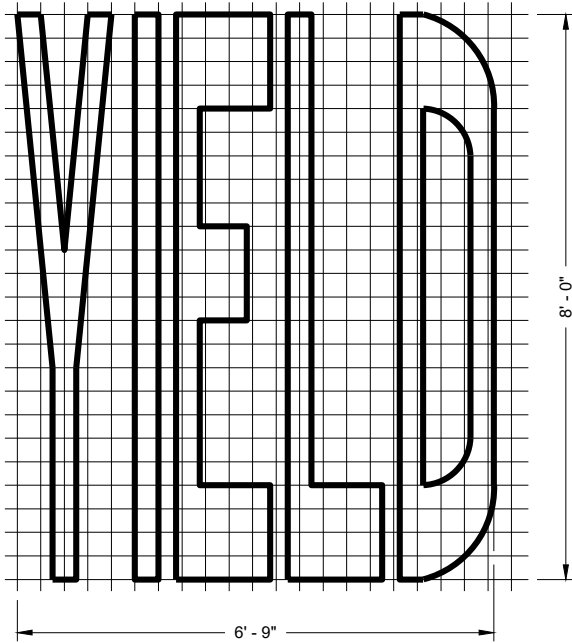
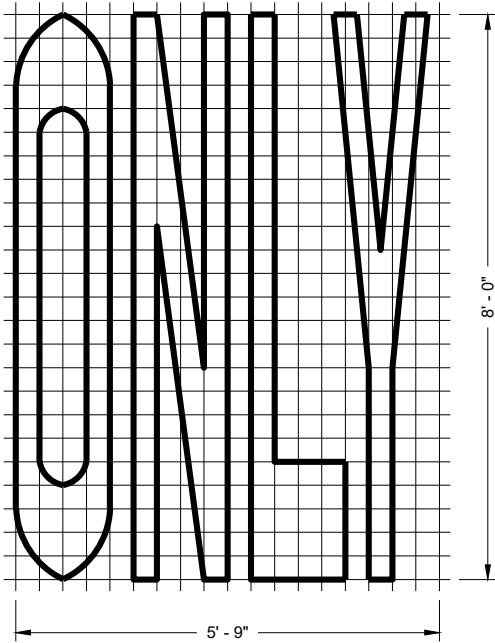
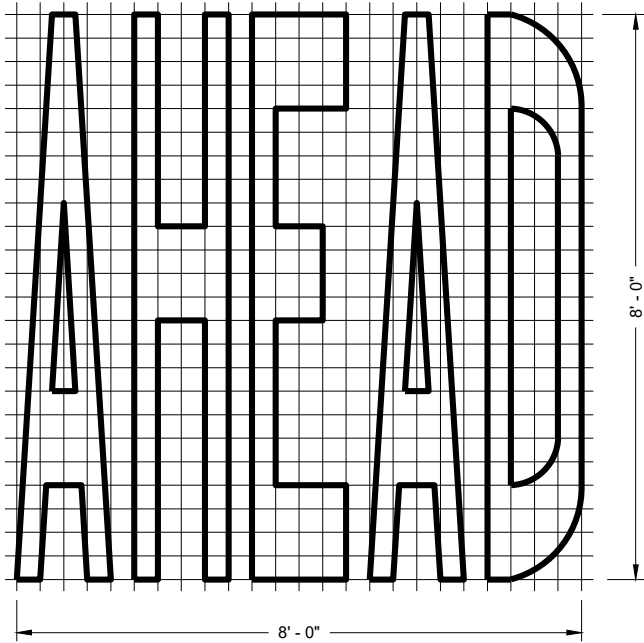
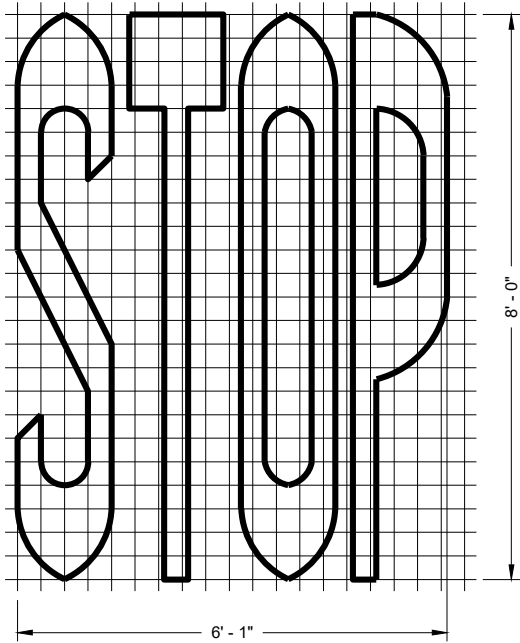
DETAILS OF INSTALLATION, MATERIALS AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS AND APPLICABLE SPECIAL PROVISIONS.

PAVEMENT MARKING SYMBOLS

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED	/S/ Matthew Rauch
November 2019	STATE SIGNING AND MARKING
DATE	ENGINEER

FHWA



SINGLE LANE

TWO - LANE

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.

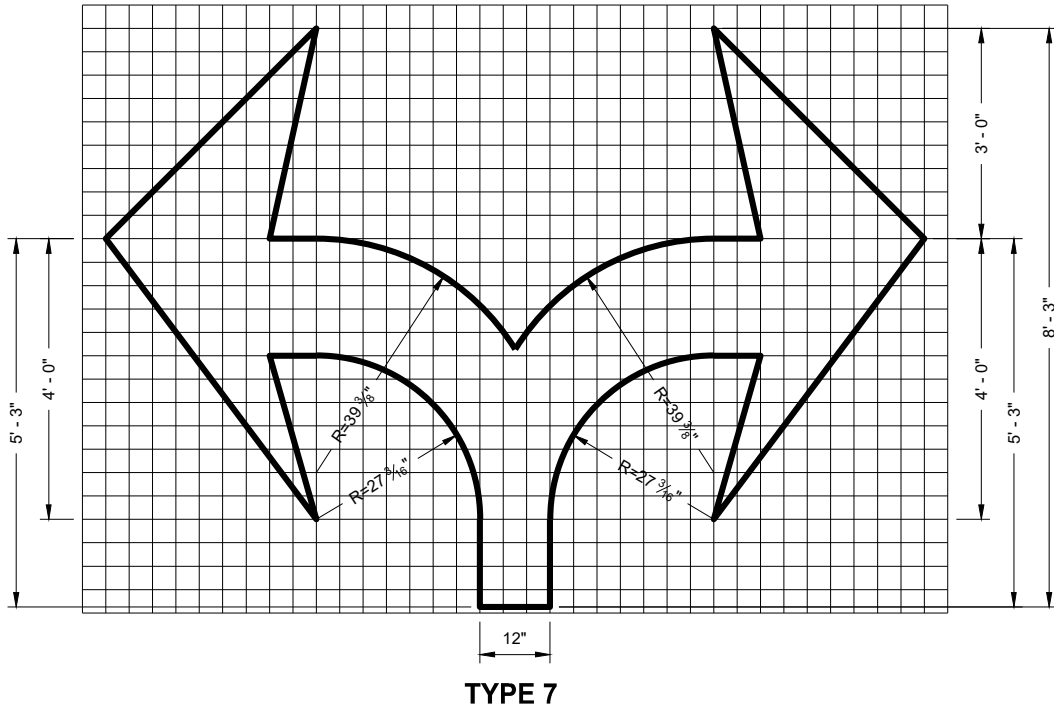
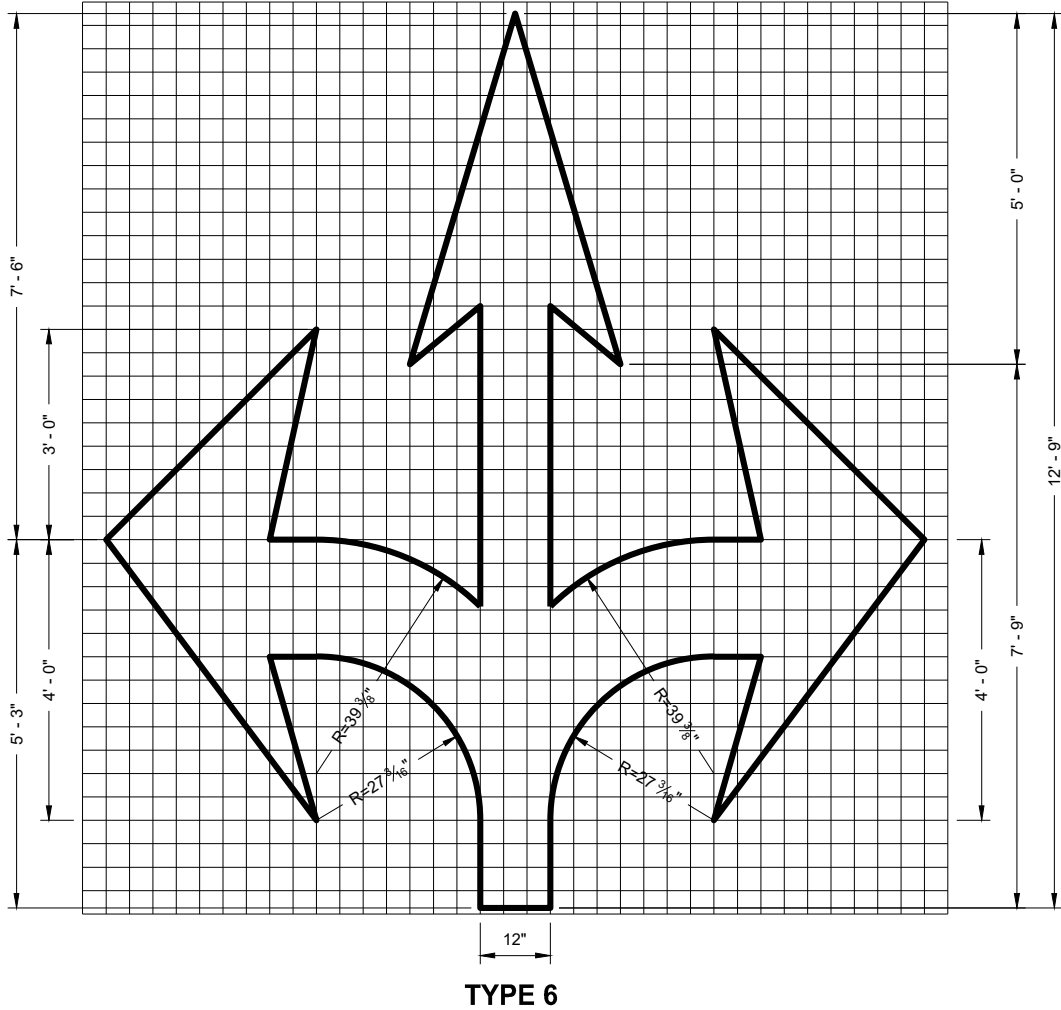
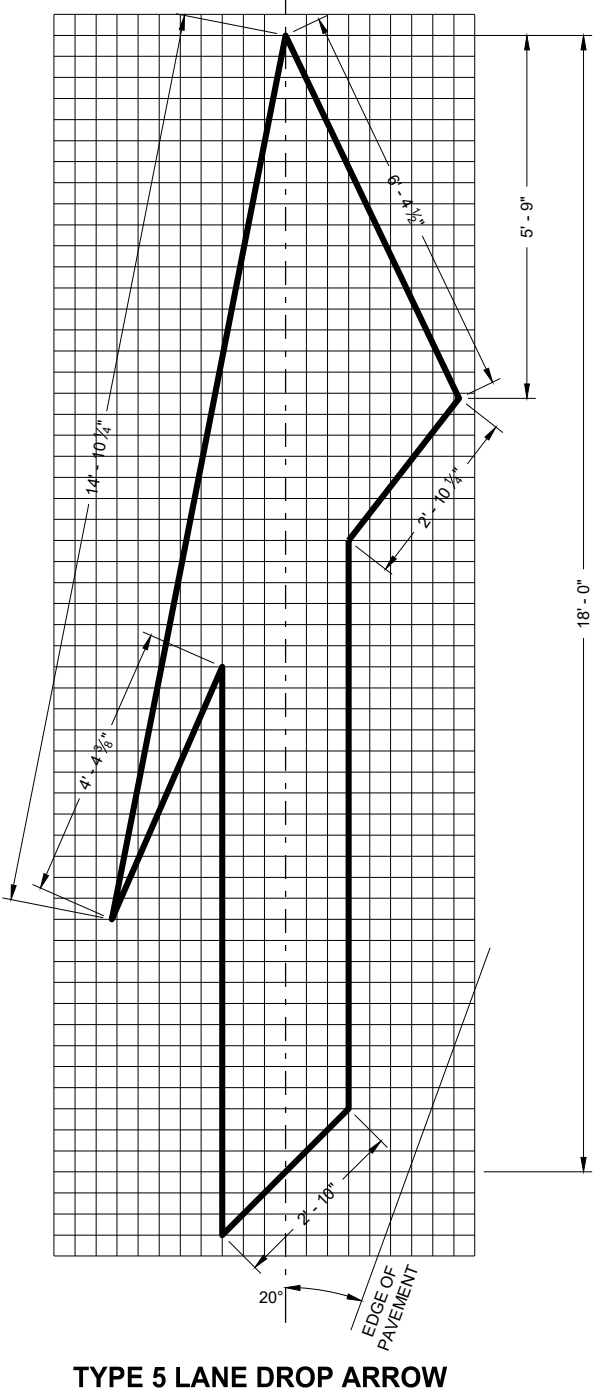
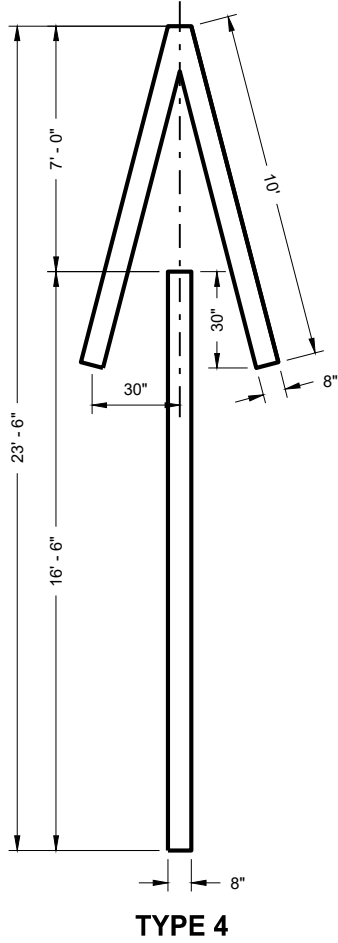
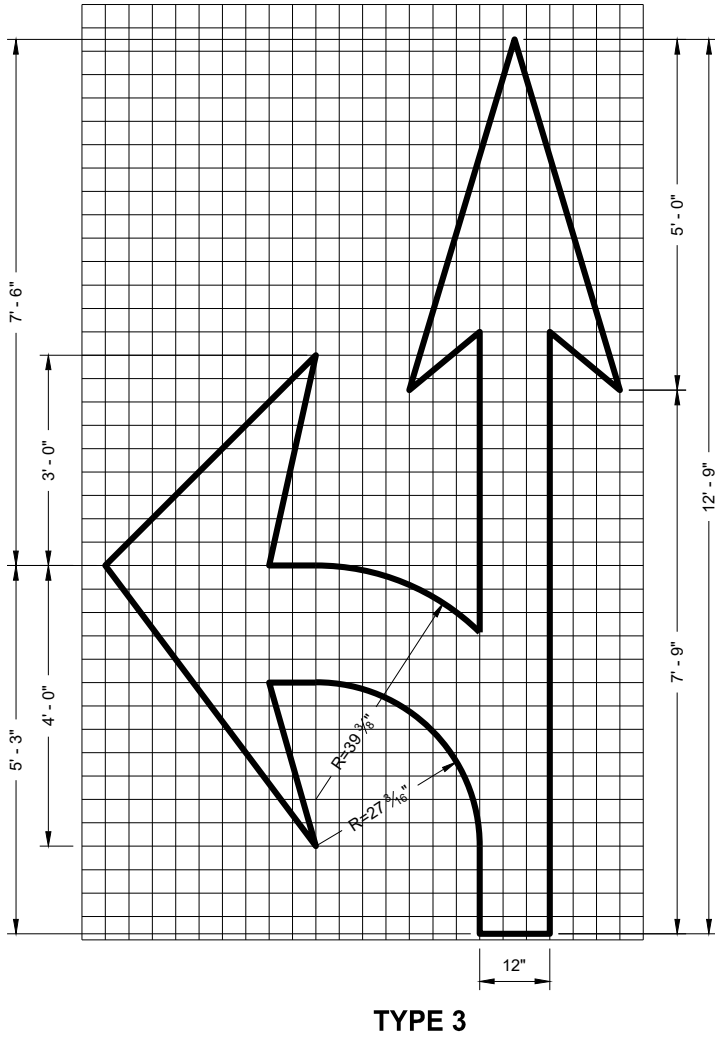
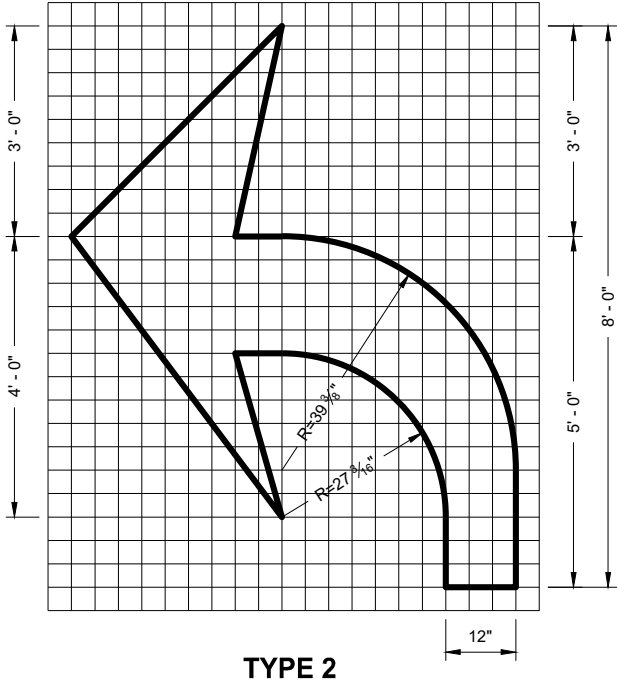
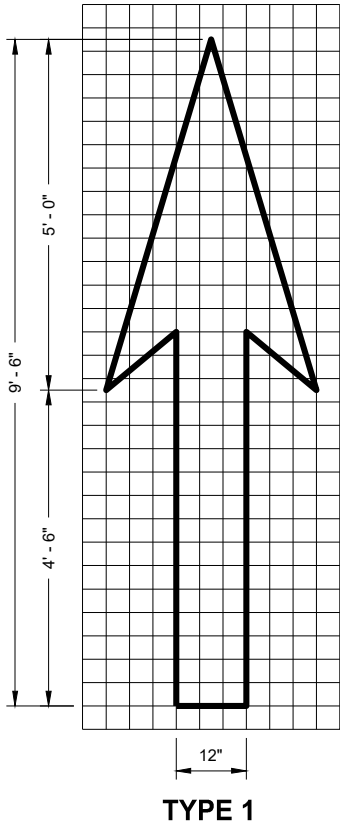
PAVEMENT MARKING WORDS

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
November 2019
DATE

/S/ Matthew Rauch
STATE SIGNING AND MARKING
ENGINEER

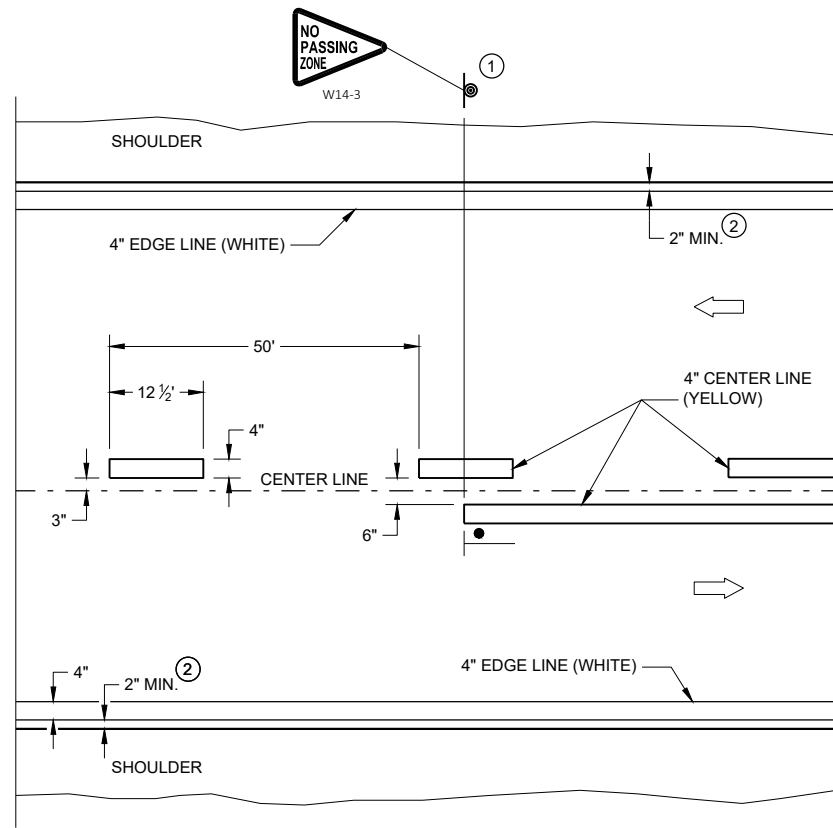
FHWA



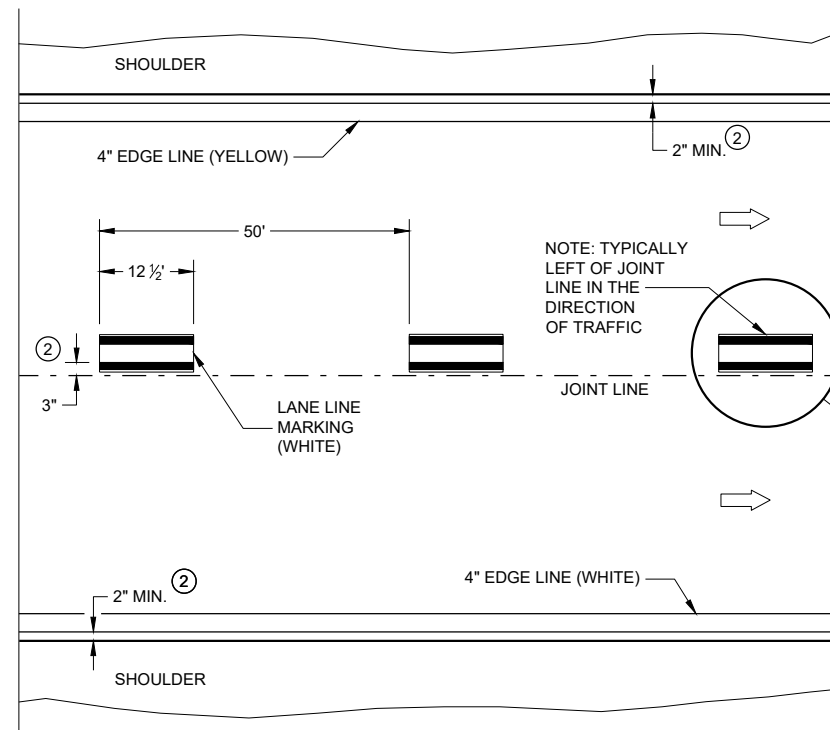
GENERAL NOTES

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 November 2019 DATE	/S/ Matthew Rauch STATE SIGNING AND MARKING ENGINEER
FHWA	

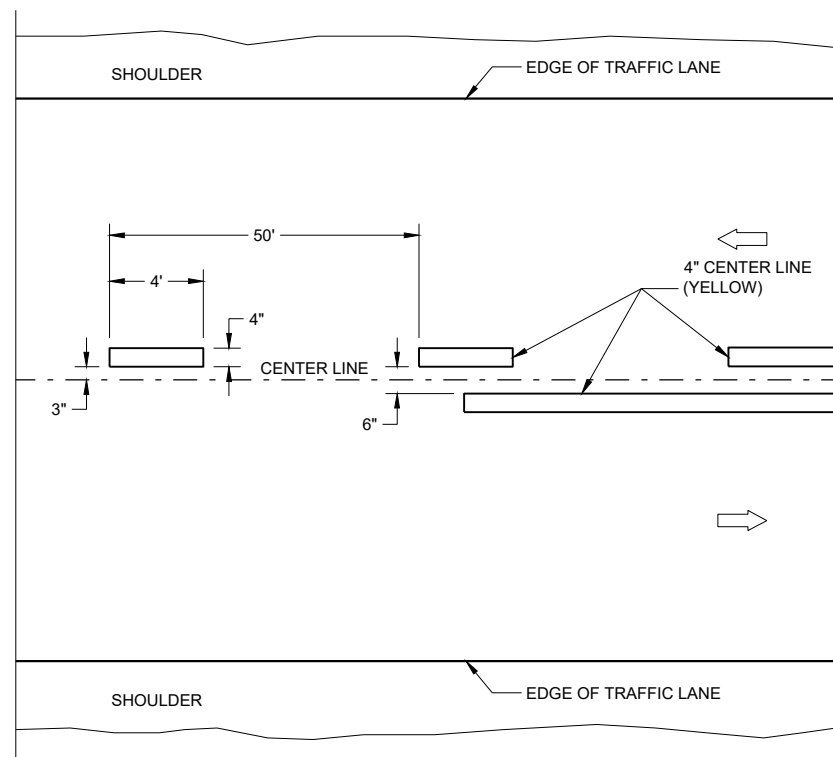


TWO WAY TRAFFIC

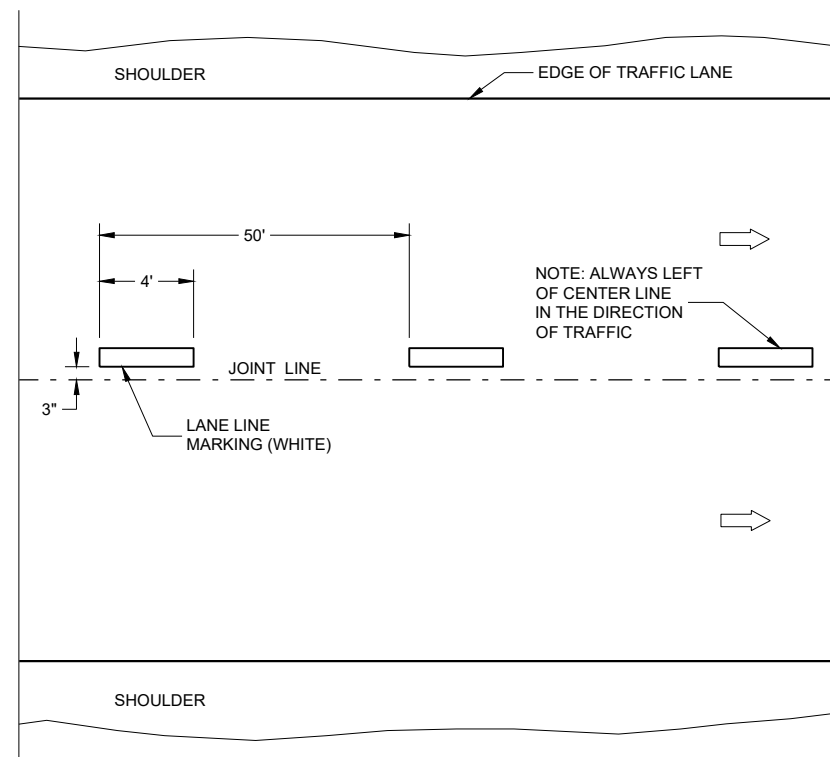


ONE WAY TRAFFIC

PERMANENT PAVEMENT MARKING



TWO WAY TRAFFIC



ONE WAY TRAFFIC




TEMPORARY PAVEMENT MARKING

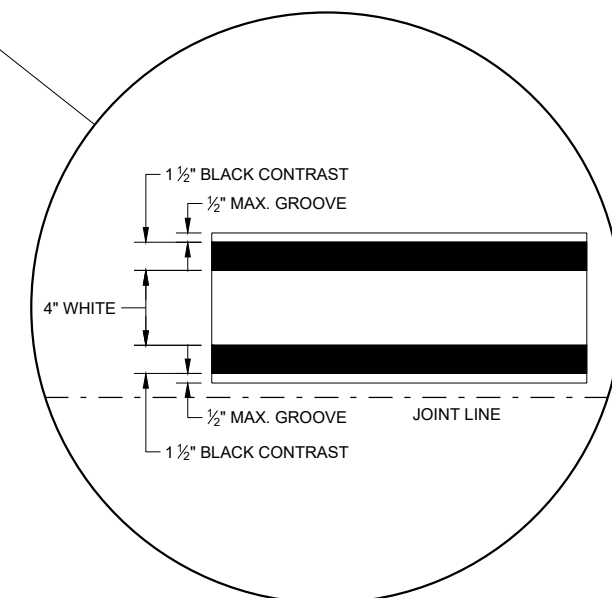
GENERAL NOTES

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 WITH 50 FEET OF THE "T" MARKING
- ② MEASURE FROM EDGE OF MARKING TO JOINT LINE. THIS DOES NOT INCLUDE SPACE NEEDED FOR GROOVING OPERATIONS.

LEGEND

-  "T" MARKING
 SIGN ON PERMANENT SUPPORT
 DIRECTION OF TRAFFIC

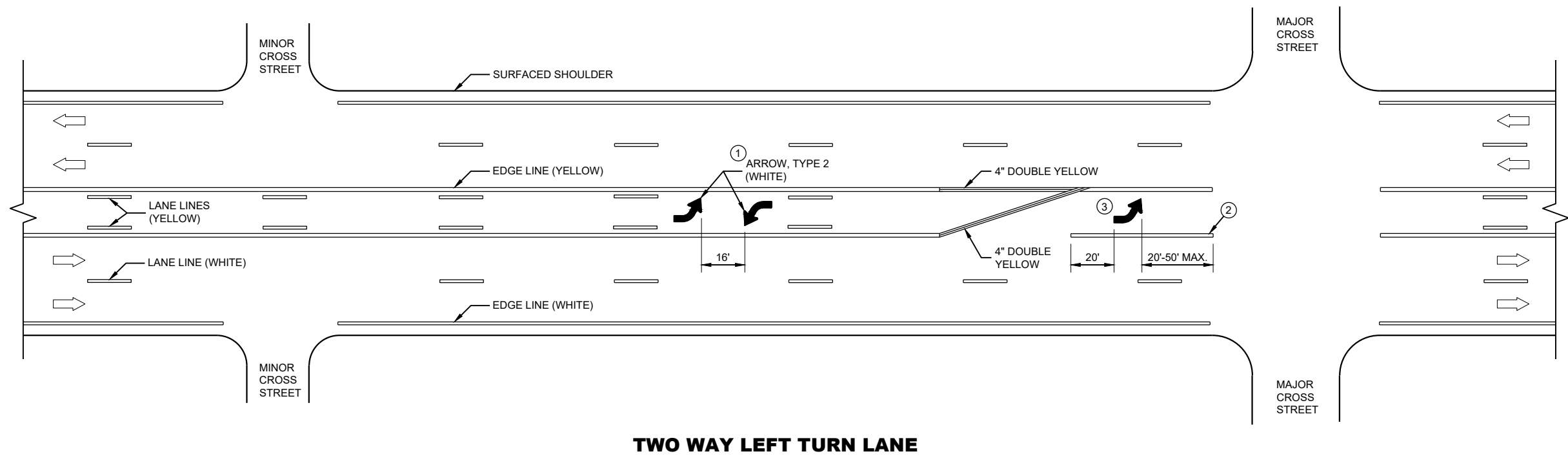


LONGITUDINAL MARKING (MAINLINE)

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
February 2020
DATE

/S/ Matthew Rauch
STATEWIDE SIGNING AND MARKING
ENGINEER



GENERAL NOTES

- ① A SET OF ARROWS IS REQUIRED EVERY 400 FEET OR NEAR INTERSECTIONS OR DRIVEWAYS WITH TURNING TRAFFIC.
- ② 8" WHITE
- ③ TURN BAY LENGTH OF LESS THAN 48' DOES NOT REQUIRE PAVEMENT ARROWS OR TEXT.

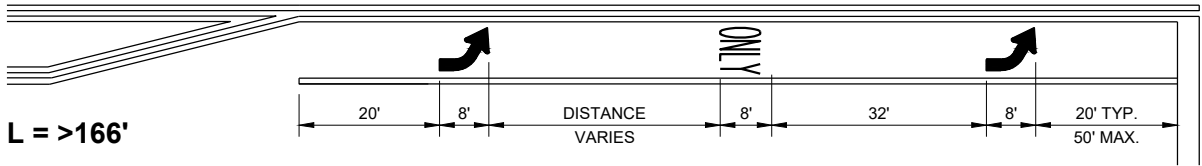
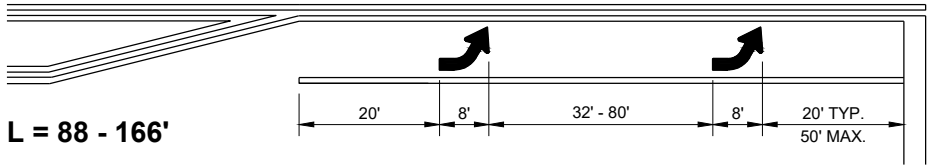
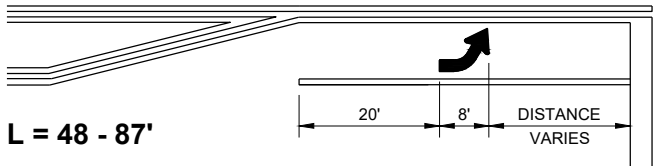
➡ DIRECTION OF TRAFFIC

**PAVEMENT MARKING
(TURN LANES)**

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

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

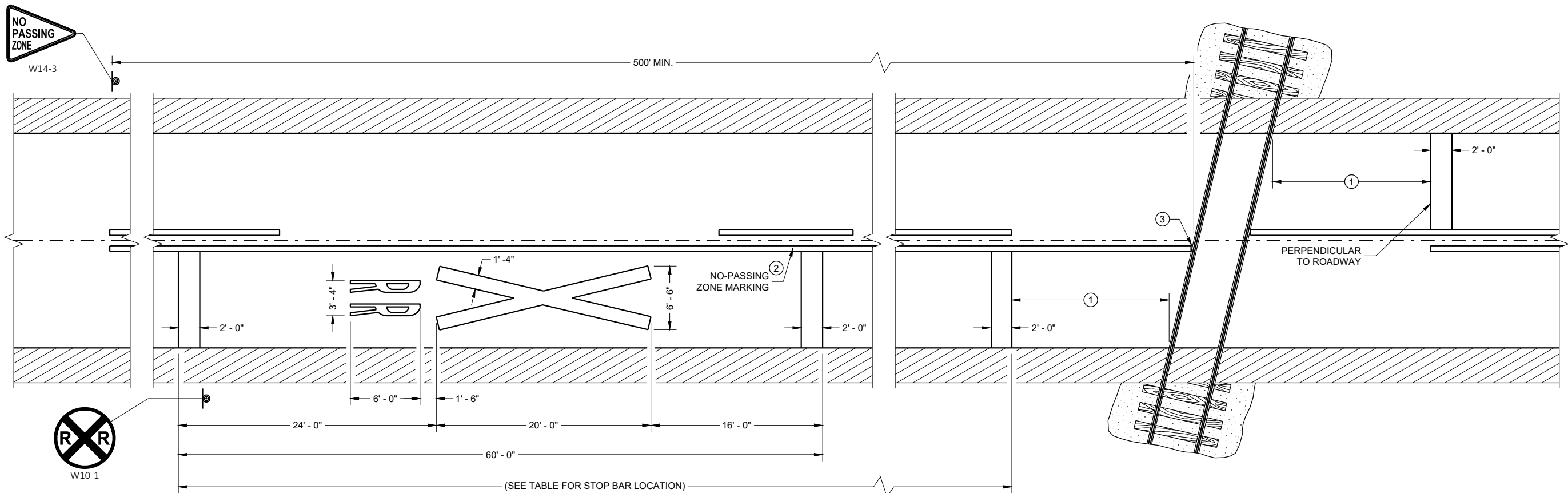
- ① 8" WHITE
- ② QUANTITY AND LOCATION OF TYPE 3 ARROWS ARE THE SAME AS THE TYPE II ARROWS IN THE ADJACENT TURN LANE. FOR TURN LANES WITH A PHYSICAL SEPARATION IN THE SAME DIRECTION OF TRAVEL, THE ARROWS AND "ONLY" MARKING MAY BE ELIMINATED.

➡ DIRECTION OF TRAFFIC

L = LENGTH OF TURN BAY

PAVEMENT MARKING (TURN LANES)

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION



PAVEMENT MARKING

LEGEND

⦿ SIGN ON PERMANENT SUPPORT

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.

TRACE EXISTING SYMBOL WHERE EXISTING SYMBOLS ARE PLACED.

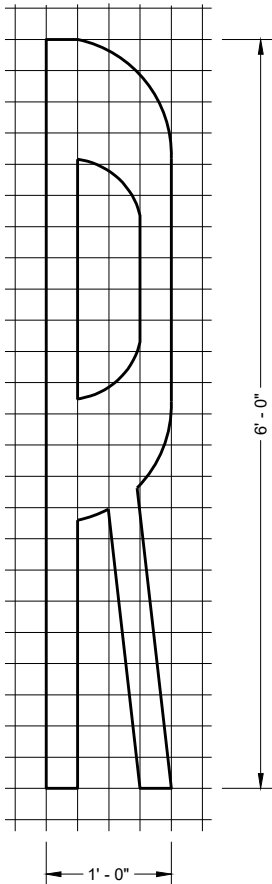
- ① MINIMUM 8' FROM ANY RAILROAD WARNING DEVICES (SIGNAL , GATES, ETC.) OR 25' FROM THE NEAREST RAIL, WHICHEVER DISTANCE IS GREATER.
- ② 500' MINIMUM. MARKING LIMITS MAY BE EXTENDED AS DIRECTED BY THE ENGINEER TO MEET ADJACENT NO-PASSING ZONE MARKINGS.
- ③ FOR MULTIPLE TRACK CROSSINGS, THE BARRIER LINE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

DISTANCE TABLE

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'

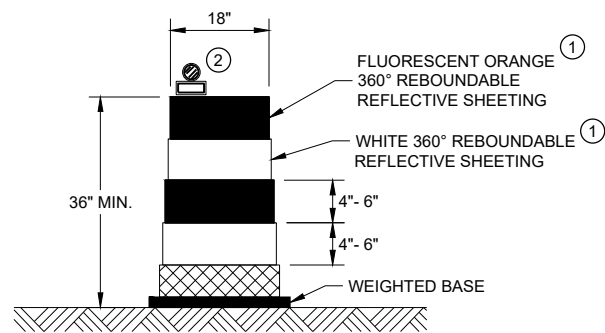
* THE MINIMUM DISTANCES IN THE TABLE ARE DESIRABLE AND SHOULD BE USED. THE DISTANCES MAY BE INCREASED UP TO THE MAXIMUM TO ALLOW FOR FIELD CONDITIONS SUCH AS THE CLOSED PROXIMITY OF DRIVEWAYS, BRIDGES, SIDE ROADS OR OTHER FEATURES THAT WOULD PROHIBIT THE MINIMUM DISTANCES FROM BEING USED.



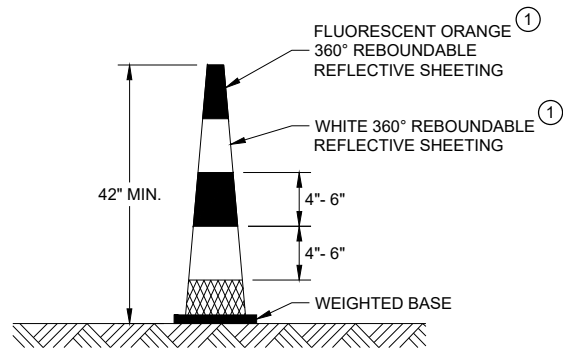
SIGNING AND PAVEMENT MARKING DETAILS FOR RAILROAD - HIGHWAY GRADE CROSSINGS

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
February 2021
DATE
/S/ Matthew R. Rauch
STATE SIGNING AND MARKING
ENGINEER
FHWA

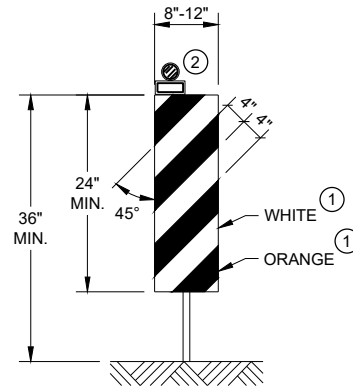


DRUM



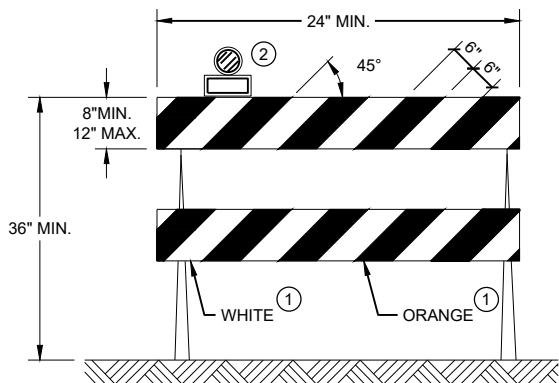
42" CONE

DO NOT USE IN TAPERS
½ SPACING OF DRUMS



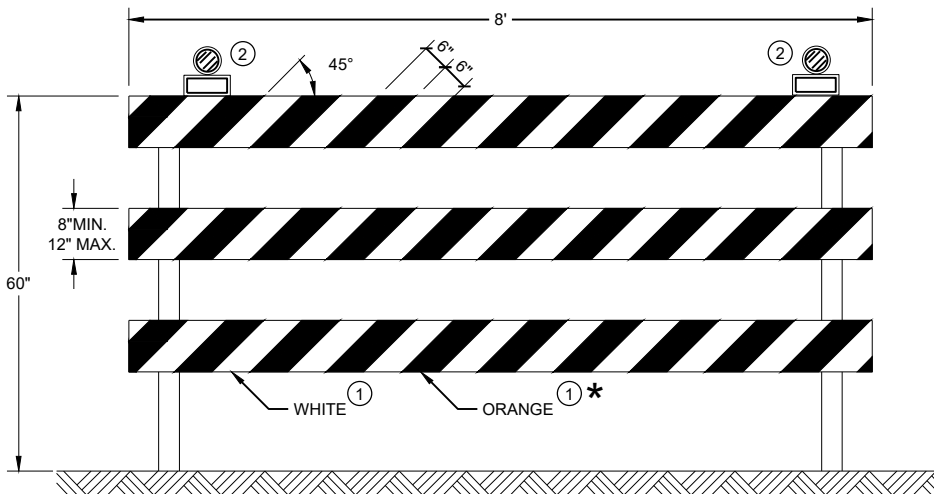
VERTICAL PANEL

THE STRIPES SHALL SLOPE DOWNWARD TO
THE TRAFFIC SIDE FOR CHANNELIZATION.



TYPE II BARRICADE

FOR RAILS LESS THAN 36" LONG, 4" WIDE STRIPES
MAY BE USED. ALL STRIPES SHALL SLOPE DOWNWARD
TO THE TRAFFIC SIDE FOR CHANNELIZATION.



TYPE III BARRICADE

IF SIGN MOUNTED, DO NOT COVER MORE THAN 50% OF THE TOP
TWO RAILS OR 33% OF THE TOTAL AREA OF THE THREE RAILS.

* IF USED FOR A PERMANENT APPLICATION USE RED SHEETING.

GENERAL NOTES

- ① REFLECTIVE SHEETING SHALL FOLLOW THE REQUIREMENTS IN THE APPROVED PRODUCTS LISTING FOR SIGN SHEETING.
- ② LOCATION OF WARNING LIGHTS WHEN SHOWN ON THE PLAN.






CHANNELIZING DEVICES
DRUMS, CONES, BARRICADES
AND VERTICAL PANELS

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
November 2020 /S/ Andrew Heidtke
DATE WORK ZONE ENGINEER

FHWA

LEGEND

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

GENERAL NOTES

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

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

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

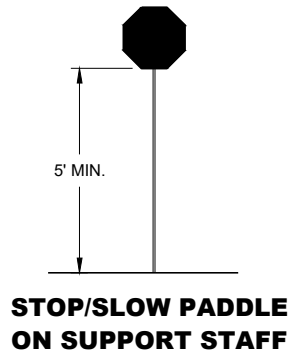
THE EXACT NUMBER, LOCATION AND SPACING OF ALL SIGNS, DEVICES, AND LOCATION OF ALL FLAGGERS SHALL BE ADJUSTED TO FIT FIELD CONDITIONS AS APPROVED BY THE ENGINEER.

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

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

FLAGGING

- FLAGGERS SHALL BE IN SIGHT OF EACH OTHER OR IN DIRECT COMMUNICATION AT ALL TIMES. THEY SHALL BE EQUIPPED WITH STOP/SLOW PADDLES FASTENED ON SUPPORT STAFFS. WHEN THE FLAGGING OPERATION IS NOT IN EFFECT REMOVE TEMPORARY PORTABLE RUMBLE STRIPS PRIOR TO COVERING OR REMOVING ALL ADVANCE SIGNING.
- FOR MOVING WORK OPERATIONS, POST ADDITIONAL W20-7A FLAGGER SIGNS AT APPROXIMATELY 3,500' INTERVALS IN THE MOVING WORK OPERATION OR AS APPROVED BY THE ENGINEER.
 - SIGN NOT REQUIRED IF FLAGGING OPERATION OCCURS WITHIN A SIGNED ROAD WORK ZONE AREA.
- WHEN THE DISTANCE BETWEEN FLAGGERS EXCEEDS 2 MILES, A PILOT CAR IS REQUIRED. WHEN CURVES REDUCE SIGHT DISTANCE BELOW 400', A PILOT CAR IS REQUIRED.
- TEMPORARY PORTABLE RUMBLE STRIPS**
- UTILIZE TEMPORARY PORTABLE RUMBLE STRIPS ON ALL FLAGGING OPERATIONS.
- EACH TEMPORARY PORTABLE RUMBLE STRIP ARRAY CONSISTS OF THREE RUMBLE STRIPS SPACED ACCORDING TO MANUFACTURER'S RECOMMENDATION, PLACED TRANSVERSE ACROSS THE LANE AT LOCATIONS SHOWN.
- ONLY USE TEMPORARY PORTABLE RUMBLE STRIPS FOR THE APPROVED PRODUCTS LIST.
- INSTALL TEMPORARY RUMBLE STRIPS PER MANUFACTURER'S RECOMMENDATIONS.
- PLACE ADVANCE SIGNING PRIOR TO INSTALLING TEMPORARY RUMBLE STRIPS.
- DO NOT INSTALL TEMPORARY PORTABLE RUMBLE STRIPS ON GRAVEL, MILLED SURFACES, OR ASPHALT THAT HAS BEEN PAVED LESS THAN 12 HOURS.

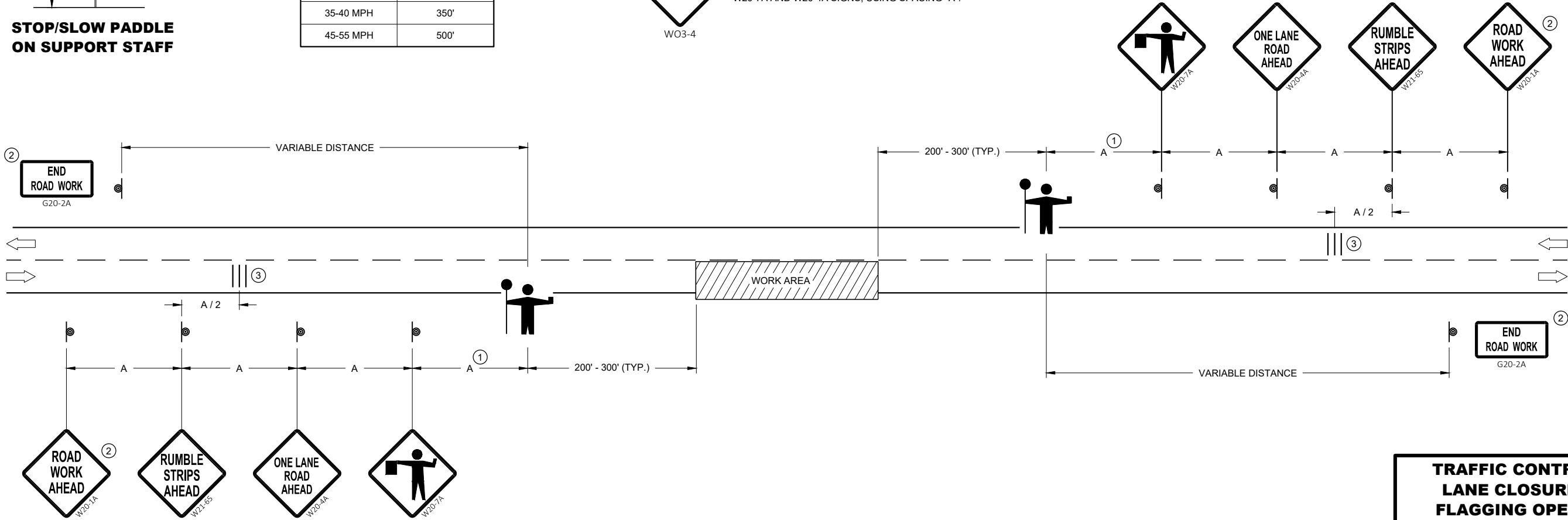


SIGN AND TEMPORARY RUMBLE STRIP ARRAY SPACING TABLE

SPEED LIMIT	SPACING "A"
25-30 MPH	200'
35-40 MPH	350'
45-55 MPH	500'



USE OF W03-4 SIGN IS OPTIONAL. WHEN USED, THIS SIGN SHALL BE LOCATED BETWEEN THE W20-7A AND W20-4A SIGNS, USING SPACING "A".



TRAFFIC CONTROL FOR LANE CLOSURE WITH FLAGGING OPERATION

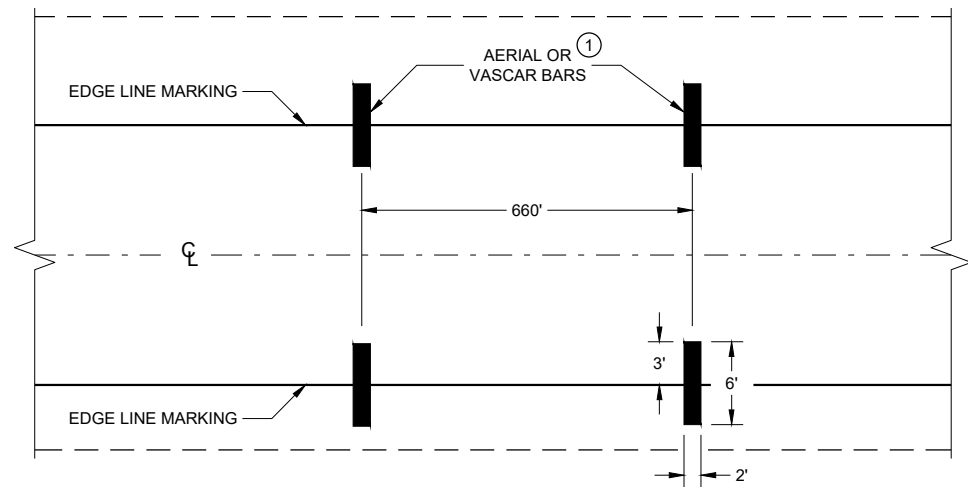
TRAFFIC CONTROL FOR LANE CLOSURE WITH FLAGGING OPERATION

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

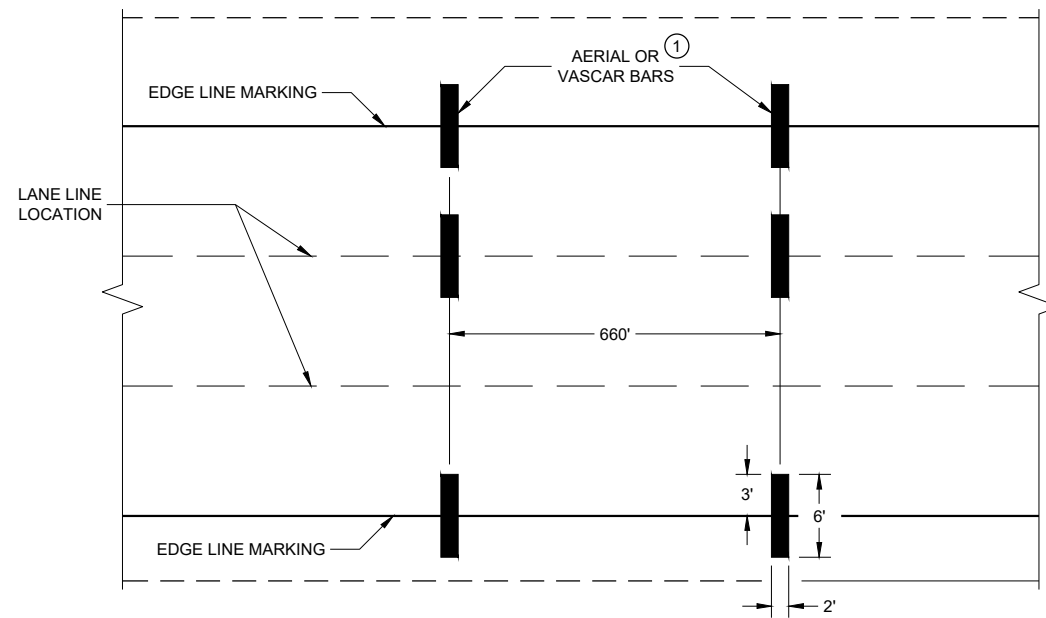
APPROVED
May 2019
DATE

/S/ Andrew Heidtke
WORK ZONE ENGINEER

FHWA



TYPICAL FOR TWO WAY OR ONE WAY TRAFFIC



TYPICAL FOR MULTILANE TRAFFIC

SPEED ENFORCEMENT ZONE WITH AERIAL OR VASCAR BARS

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.

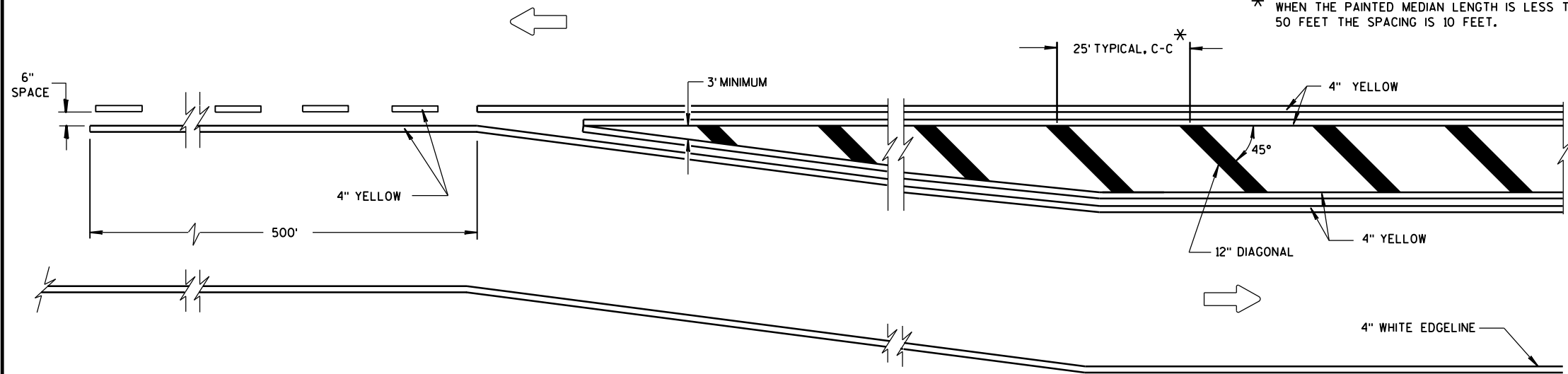
**AERIAL ENFORCEMENT BARS
PAVEMENT MARKING DETAILS**

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
February 2021
DATE

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

FHWA

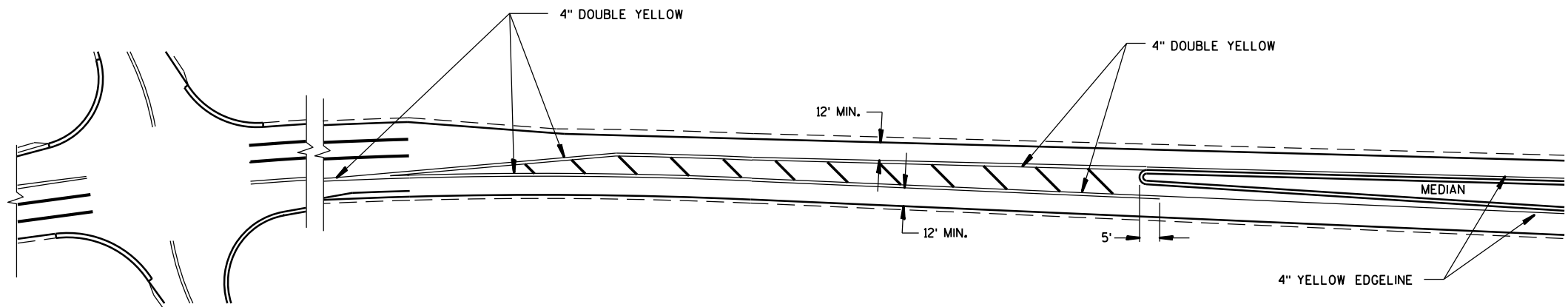


MEDIAN ISLAND DETAIL

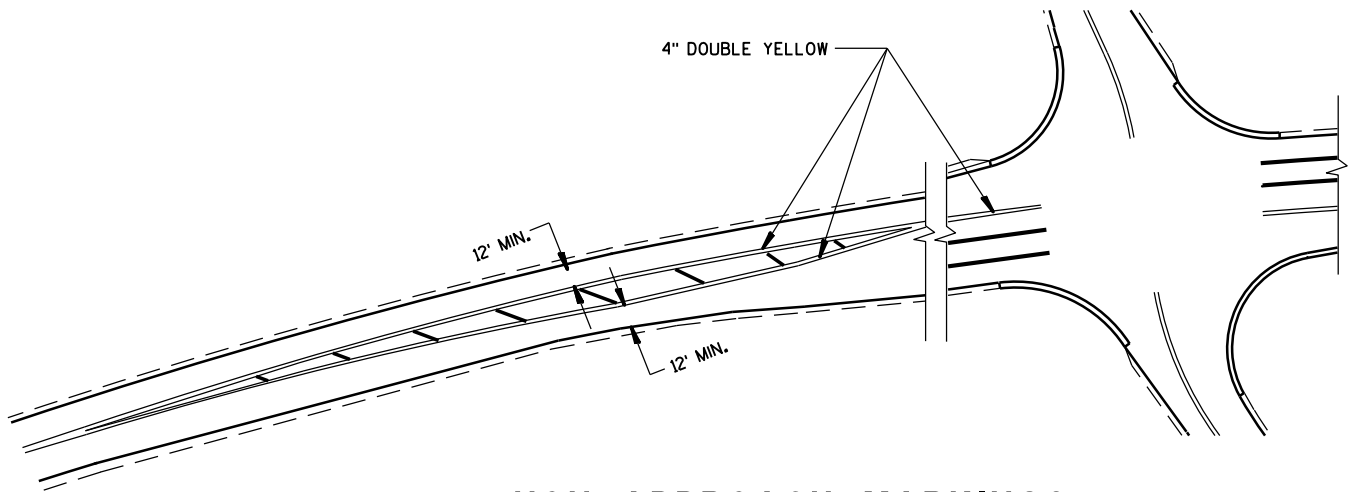
GENERAL NOTE

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

➡ DIRECTION OF TRAVEL

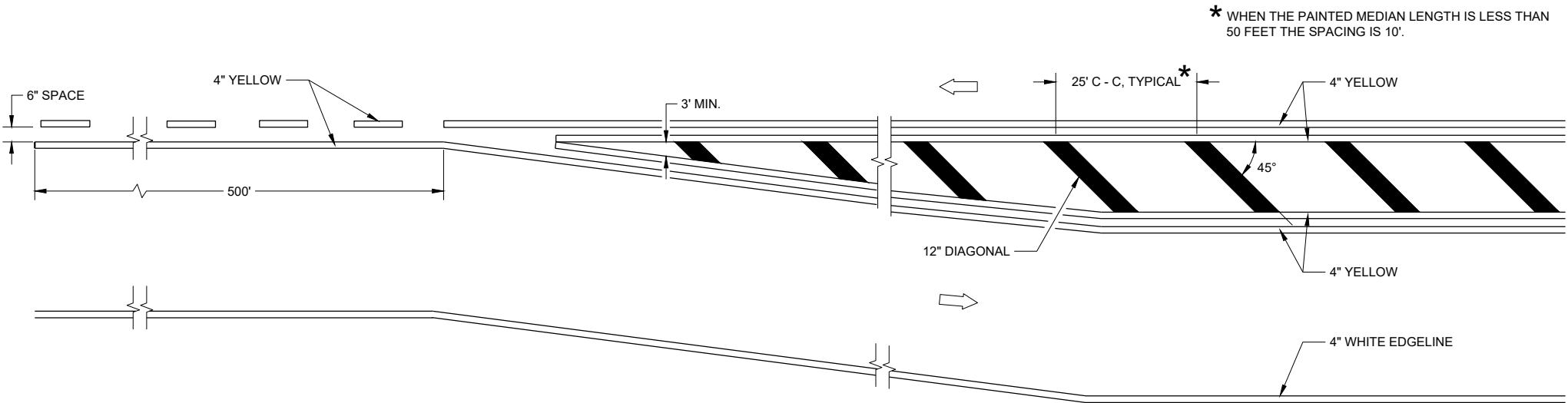


APPROACH MARKINGS FOR OTHER MEDIAN TYPES

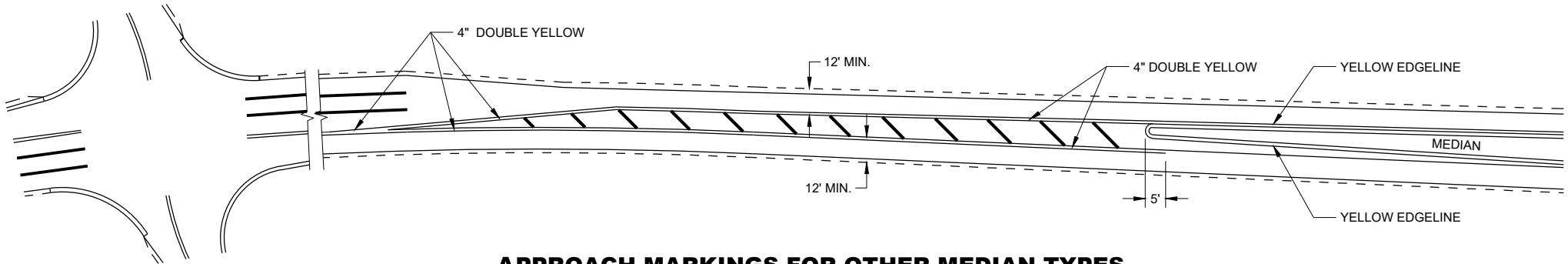


NON APPROACH MARKINGS

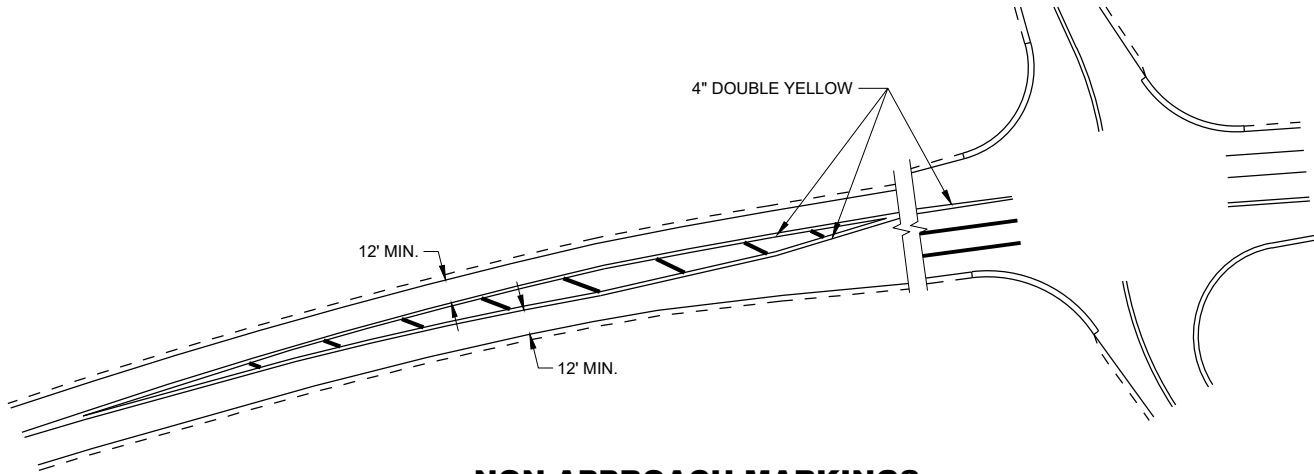
MEDIAN ISLAND MARKING	
STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION	
APPROVED June 2017 DATE	/S/ Matthew Rauch STATE SIGNING AND MARKING ENGINEER
FHWA	



MEDIAN ISLAND DETAIL



APPROACH MARKINGS FOR OTHER MEDIAN TYPES



NON-APPROACH MARKINGS

GENERAL NOTES

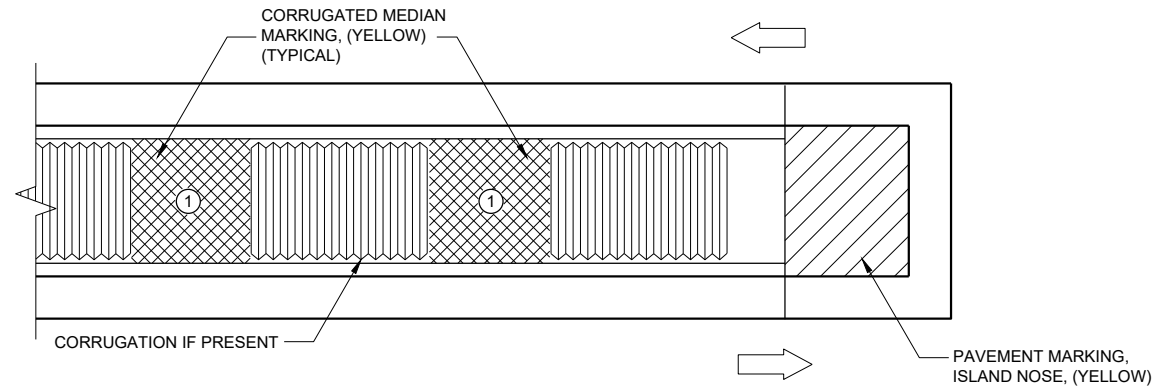
DIAGONALS ARE OPTIONAL WHEN PAINED ISLAND IS LESS THAN 6 FEET AT WIDEST POINT.

DIRECTION OF TRAVEL

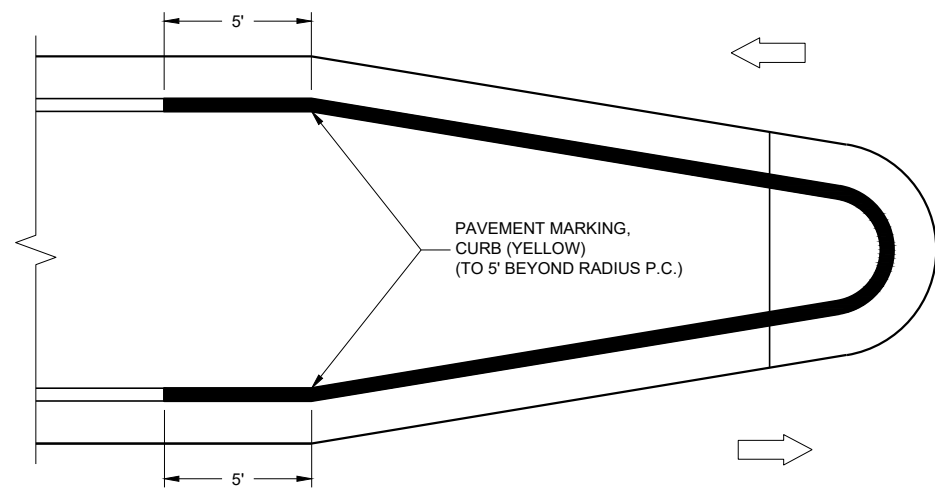
MEDIAN ISLAND
PAVEMENT MARKINGS

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

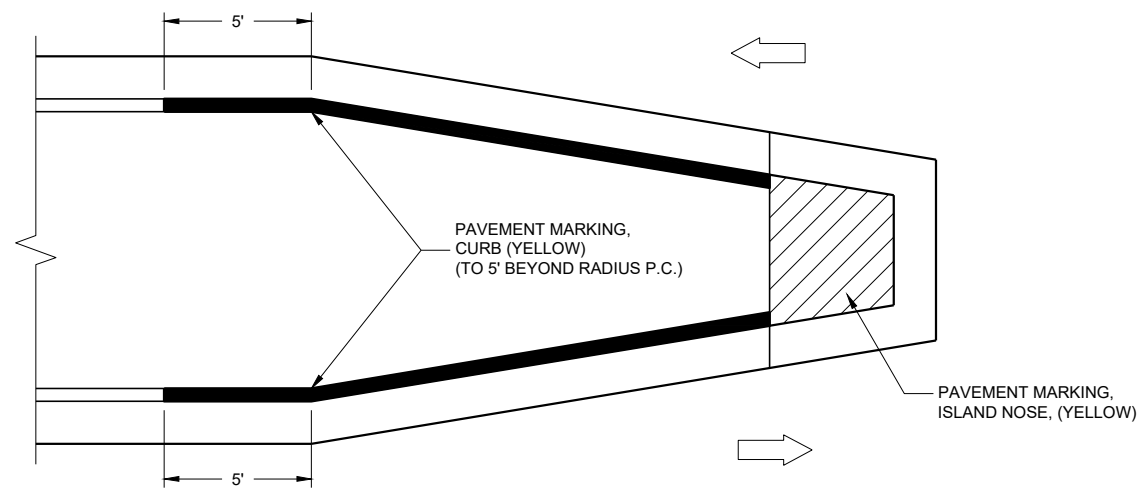
APPROVED
February 2021
DATE
/S/ Matthew R. Rauch
STATE SIGNING AND MARKING
ENGINEER
FHWA



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.

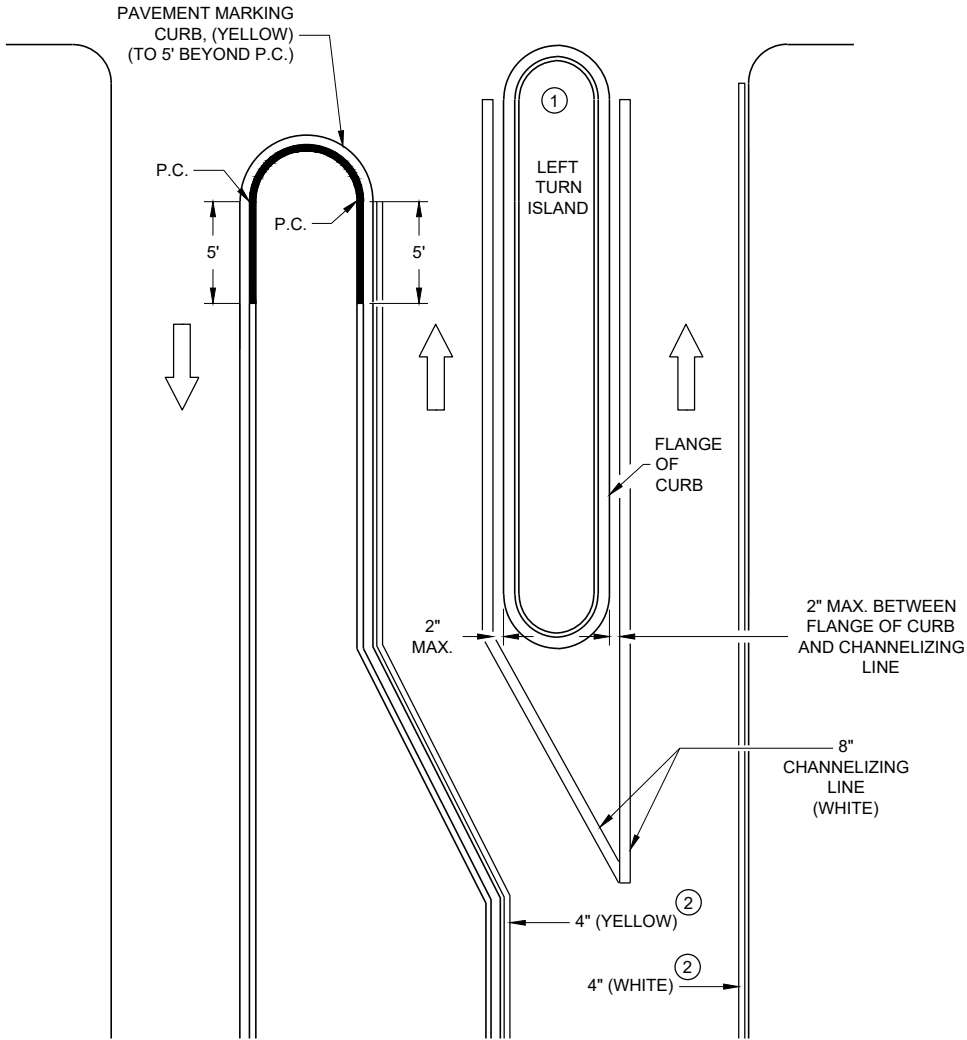
- ISLAND NOSE MARKING
- CURB MARKING
- CORRUGATED MEDIAN MARKING
- DIRECTION OF TRAVEL

**PAVEMENT MARKINGS,
MEDIAN ISLAND NOSE**

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

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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



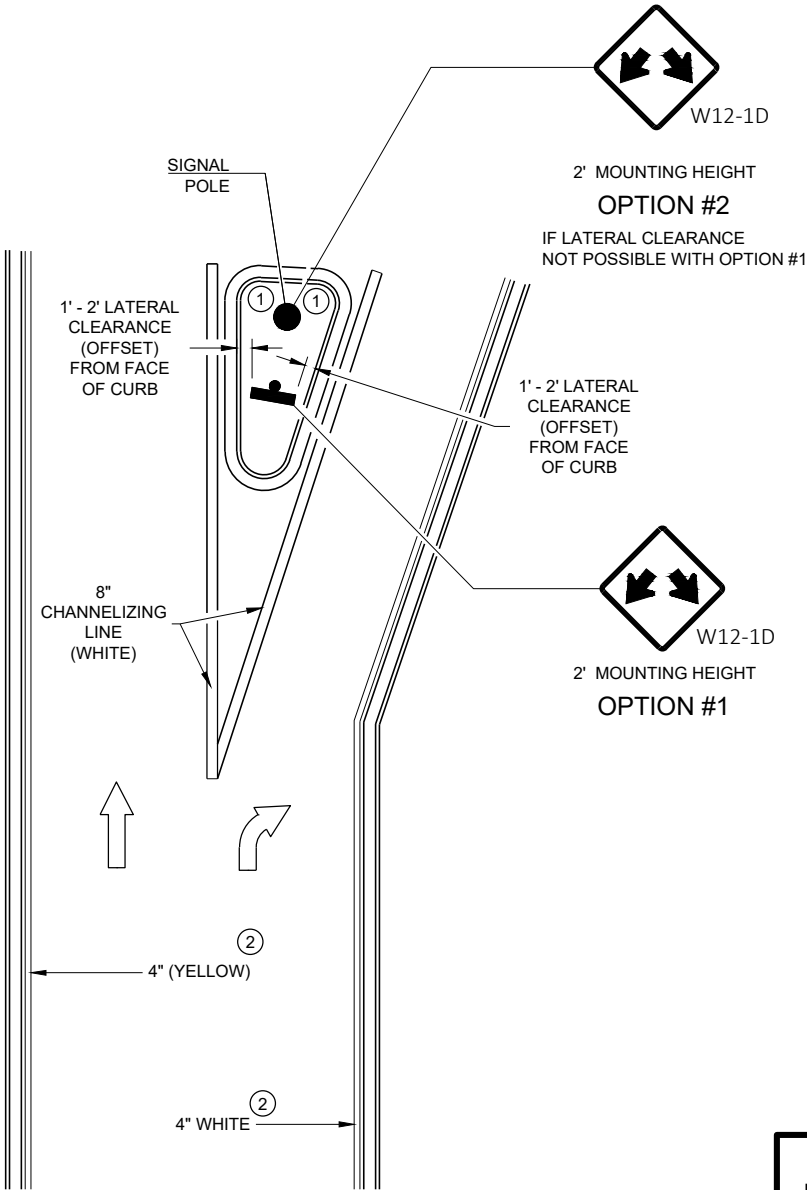
LEFT TURN & MEDIAN ISLAND

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.

DIRECTION OF TRAVEL



RIGHT TURN ISLAND

MEDIAN PAVEMENT MARKINGS, DOUBLE ARROW WARNING SIGN PLACEMENT





STATE OF WISCONSIN
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APPROVED
February 2021
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LEGEND

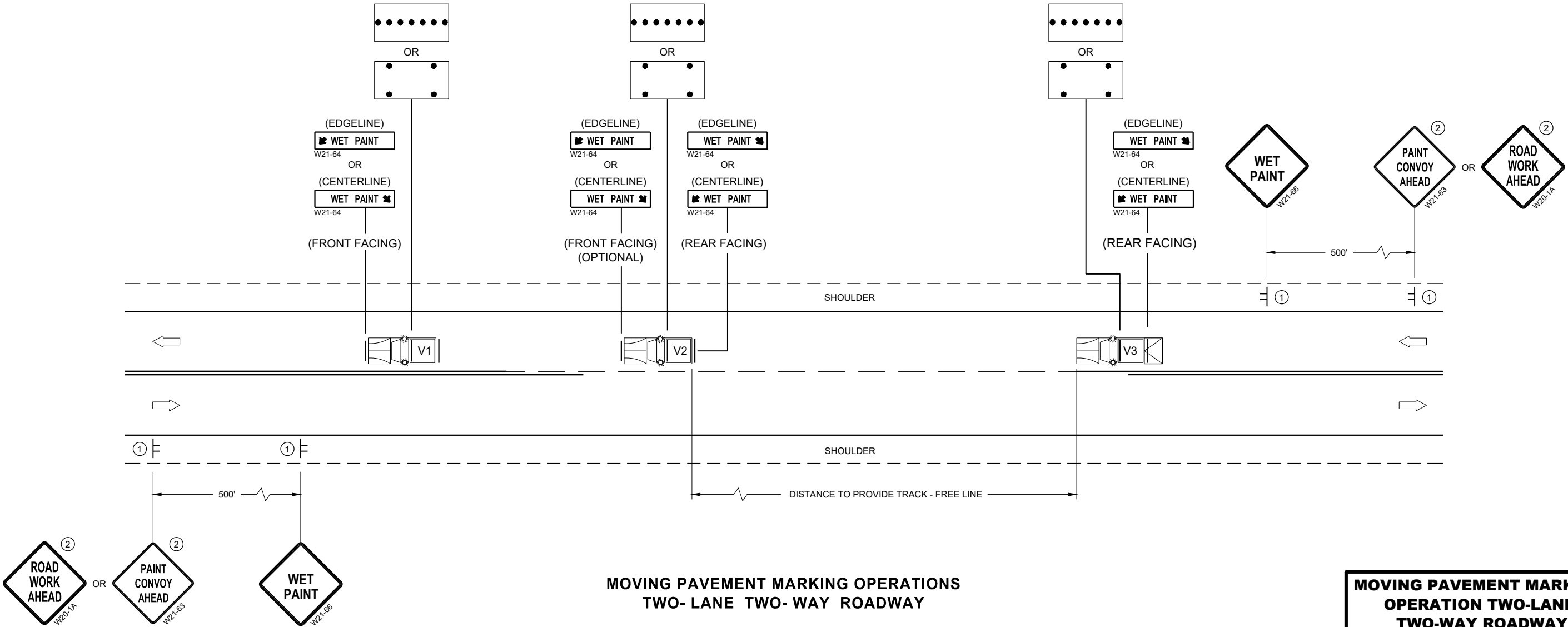
- V1 LEAD VEHICLE
- V2 MARKING VEHICLE
- V3 SHADOW VEHICLE
-  TRUCK MOUNTED ATTENUATOR (TMA)
-  SIGN ON TEMPORARY SUPPORT
-  DIRECTION OF TRAFFIC
-  FLASHING ARROW PANEL (CAUTION)

GENERAL NOTES

- ALL VEHICLES SHALL BE EQUIPPED WITH TWO 360 DEGREE HIGH INTENSITY YELLOW FLASHING LIGHTS OR STROBE LIGHTS AND OPERATED WITH HEADLIGHTS TURNED ON.
- ALL VEHICLES SHALL BE EQUIPPED WITH REAR FACING TYPE B OR C FLASHING ARROW PANEL OPERATING IN CAUTION MODE. SIGNS PLACED ON VEHICLES MUST NOT OBSCURE THE ARROW PANEL.
- ALL SIGNS ARE 48" X 48" UNLESS OTHERWISE SPECIFIED.
- DISTANCE BETWEEN VEHICLES MAY VARY ACCORDING TO TERRAIN, SIGHT DISTANCE, PAINT DRYING TIME, AND OTHER FACTORS. WHENEVER ADEQUATE STOPPING SIGHT DISTANCE EXISTS TO THE REAR, SHADOW VEHICLES SHOULD MAINTAIN THE MINIMUM DISTANCE FROM THE WORK VEHICLE AND PROCEED AT THE SAME SPEED AS THE WORK VEHICLE. SHADOW VEHICLES SHOULD SLOW DOWN IN ADVANCE OF VERTICAL AND HORIZONTAL CURVES THAT RESTRICT SIGHT DISTANCE.
- THE WORK AND SHADOW VEHICLES SHOULD PULL OVER PERIODICALLY TO ALLOW TRAFFIC TO PASS.

- WHEN NO WORK ACTIVITY IS TAKING PLACE, REMOVE OR LAY STATIONARY SIGNS AND SUPPORTS FLAT ON THE GRADE WITH UPRIGHTS ORIENTED PARALLEL TO AND DOWNSTREAM FROM TRAFFIC.
- CONES SHOULD BE USED BETWEEN THE MARKING AND SHADOW VEHICLE AT 100 FOOT SPACING. CONES MAY BE OMITTED ON PAINTED LINE IF APPROVED BY THE ENGINEER. CONSIDER PAVEMENT MARKING DRY OR CURE TIMES AND TRAFFIC VOLUME.
- CONES SHALL BE A MINIMUM OF 18" FOR WET PAVEMENT MARKING .

- ① SIGNS SHALL BE REPEATED APPROXIMATELY EVERY THREE MILES.
- ② IF CONSTRUCTION WORK ZONE SIGNS ARE IN PLACE, W20-1A OR W21-63 ARE NOT REQUIRED.








MOVING PAVEMENT MARKING
OPERATION TWO-LANE
TWO-WAY ROADWAY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
November 2019 /S/ Andrew Heidtke
DATE WORK ZONE ENGINEER
FHWA

LEGEND

- V1 LEAD VEHICLE
- V2 MARKING VEHICLE
- V3 SHADOW VEHICLE
-  TRUCK MOUNTED ATTENUATOR (TMA)
-  SIGN ON TEMPORARY SUPPORT
-  DIRECTION OF TRAFFIC
-  FLASHING ARROW PANEL (MERGE)
-  FLASHING ARROW PANEL (CAUTION)

GENERAL NOTES

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

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

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

DISTANCE BETWEEN VEHICLES MAY VARY ACCORDING TO TERRAIN, SIGHT DISTANCE, PAINT DRYING TIME, AND OTHER FACTORS. WHENEVER ADEQUATE STOPPING SIGHT DISTANCE EXISTS TO THE REAR, SHADOW VEHICLES SHOULD MAINTAIN THE MINIMUM DISTANCE FROM THE WORK VEHICLE AND PROCEED AT THE SAME SPEED AS THE WORK VEHICLE. SHADOW VEHICLES SHOULD SLOW DOWN IN ADVANCE OF VERTICAL AND HORIZONTAL CURVES THAT RESTRICT SIGHT DISTANCE.

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

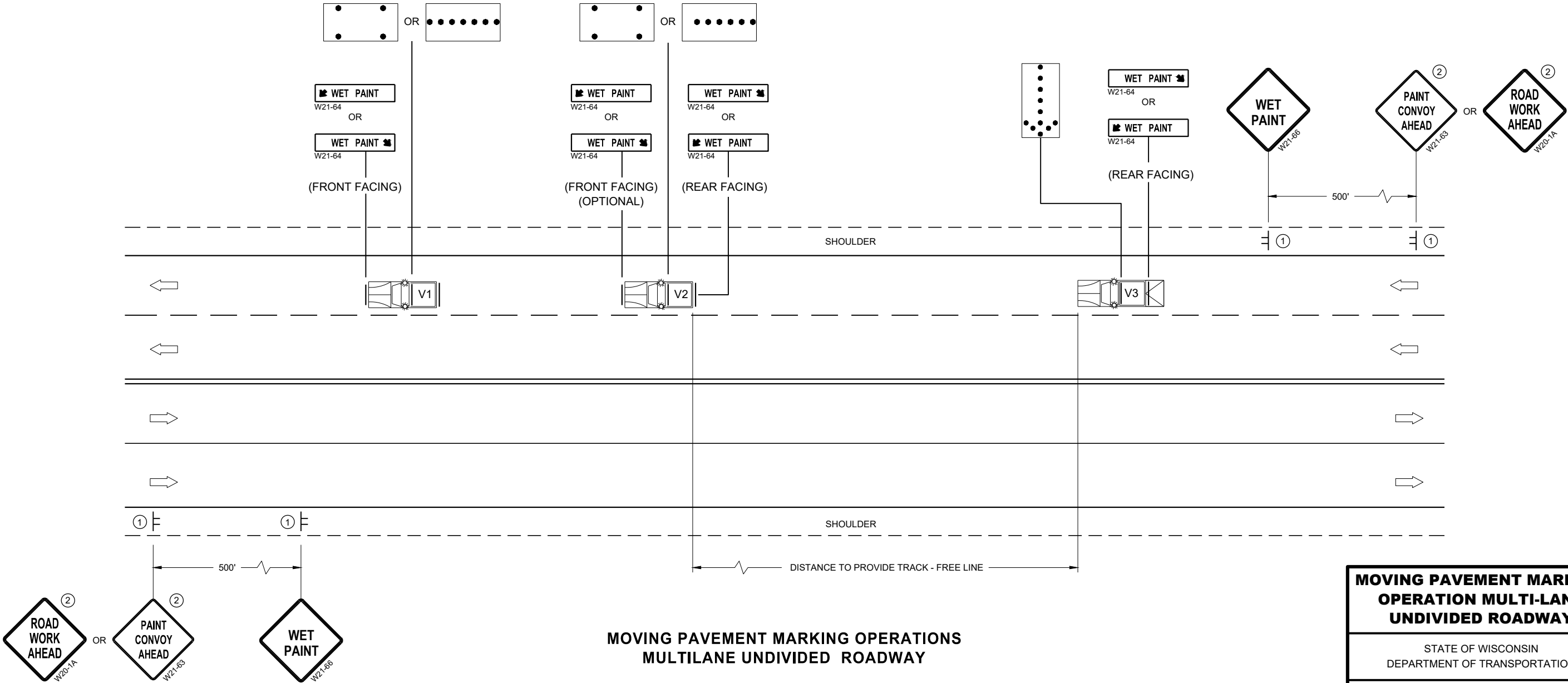
WHEN A RAMP INTERSECTS THE FACILITY ON WHICH THE WORK IS BEING PERFORMED, PROVIDE ADDITIONAL TRAFFIC CONTROLS AS SPECIFIED IN THE CONTRACT OR AS APPROVED BY THE ENGINEER.

WHEN NO WORK ACTIVITY IS TAKING PLACE, REMOVE OR LAY STATIONARY SIGNS AND SUPPORTS FLAT ON THE GRADE WITH UPRIGHTS ORIENTED PARALLEL TO AND DOWNSTREAM FROM TRAFFIC.

CONES SHOULD BE USED BETWEEN THE MARKING AND SHADOW VEHICLES AT 100 FOOT SPACING. CONES MAY BE OMITTED ON PAINTED LINE IF APPROVED BY THE ENGINEER. CONSIDER PAVEMENT MARKING DRY OR CURE TIMES AND TRAFFIC VOLUME.

CONES SHALL HAVE A MINIMUM HEIGHT OF 18" FOR WET PAVEMENT MARKINGS.

- ① SIGNS SHALL BE REPEATED APPROXIMATELY EVERY THREE MILES.
- ② IF CONSTRUCTION WORK ZONE SIGNS ARE IN PLACE, W20-1A OR W21-63 ARE NOT REQUIRED.



MOVING PAVEMENT MARKING OPERATIONS
MULTILANE UNDIVIDED ROADWAY

MOVING PAVEMENT MARKING
OPERATION MULTI-LANE
UNDIVIDED ROADWAY

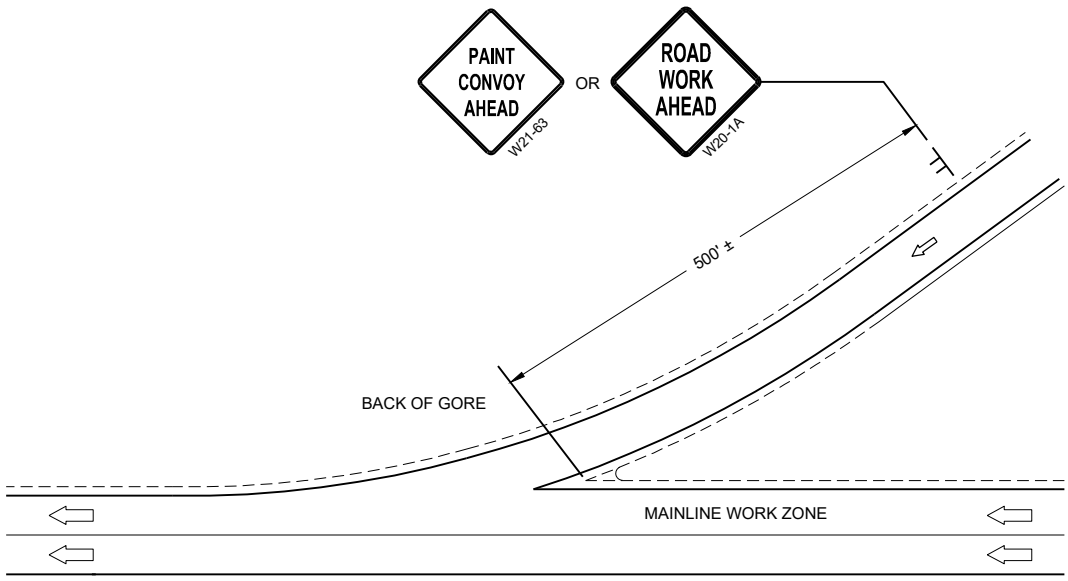
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
November 2019 /S/ Andrew Heidtke
DATE WORK ZONE ENGINEER

FHWA

LEGEND

- V1 MARKING VEHICLE
- V2 SHADOW VEHICLE
- V3 TRAIL VEHICLE
- TRUCK MOUNTED ATTENUATOR (TMA)
- SIGN ON TEMPORARY SUPPORT
- DIRECTION OF TRAFFIC
- FLASHING ARROW PANEL (MERGE)
- FLASHING ARROW PANEL (CAUTION)



GENERAL NOTES

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

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

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

DISTANCE BETWEEN VEHICLES MAY VARY ACCORDING TO TERRAIN, SIGHT DISTANCE, PAINT DRYING TIME, AND OTHER FACTORS. WHENEVER ADEQUATE STOPPING SIGHT DISTANCE EXISTS TO THE REAR, SHADOW VEHICLES SHOULD MAINTAIN THE MINIMUM DISTANCE FROM THE WORK VEHICLE AND PROCEED AT THE SAME SPEED AS THE WORK VEHICLE. SHADOW VEHICLES SHOULD SLOW DOWN IN ADVANCE OF VERTICAL AND HORIZONTAL CURVES THAT RESTRICT SIGHT DISTANCE.

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

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

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

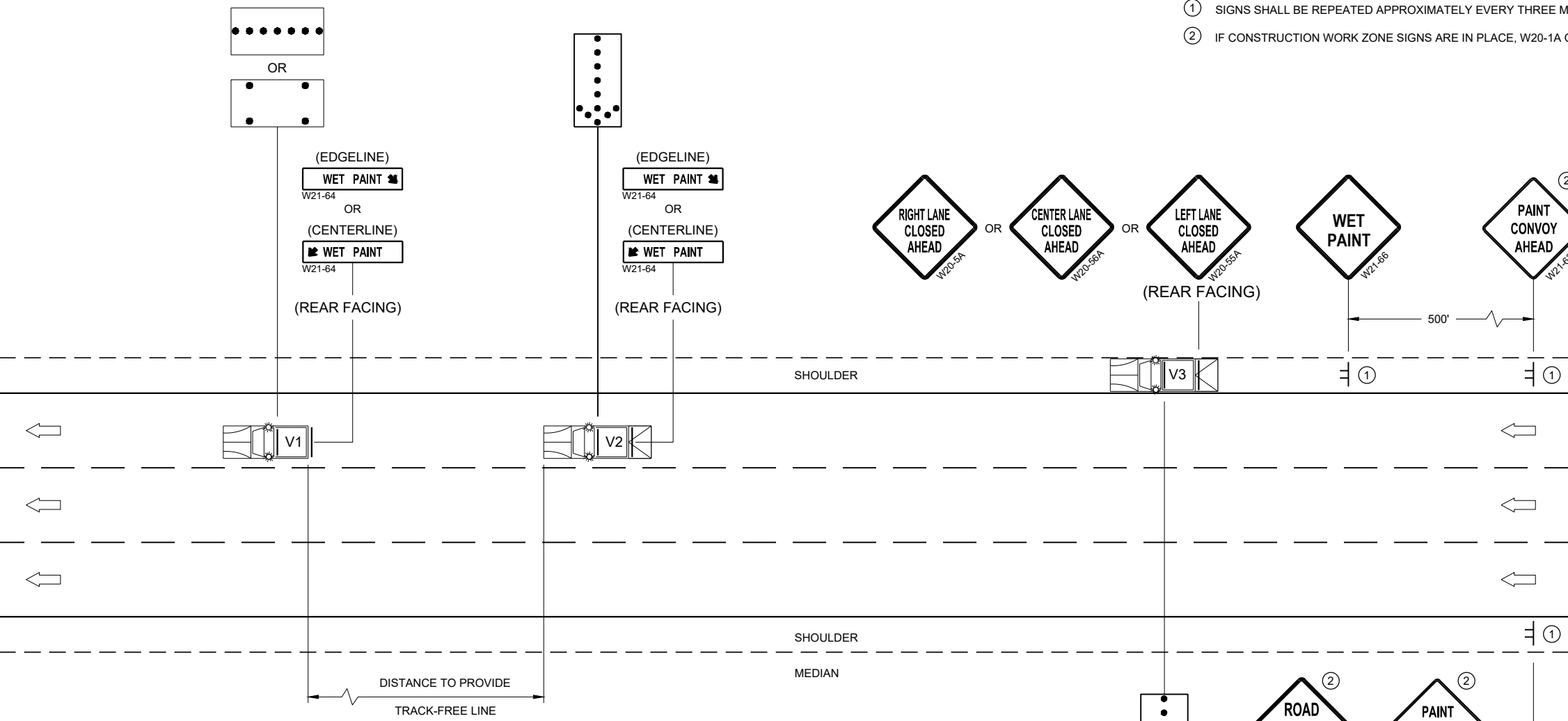
IF THE SHOULDER IS TOO NARROW TO ACCOMMODATE THE LAST TRAILING VEHICLE, THE VEHICLE SHOULD STRADDLE THE EDGE LINE.

WHEN NO WORK ACTIVITY IS TAKING PLACE, REMOVE OR LAY STATIONARY SIGNS AND SUPPORTS FLAT ON THE GRADE WITH UPRIGHTS ORIENTED PARALLEL TO AND DOWNSTREAM FROM TRAFFIC

CONES SHOULD BE USED BETWEEN THE MARKING AND SHADOW VEHICLE AT 100 FOOT SPACING. CONES MAY BE OMITTED ON PAINTED LINE IF APPROVED BY THE ENGINEER. CONSIDER PAVEMENT MARKING DRY OR CURE TIMES AND TRAFFIC VOLUME.

CONES SHALL BE A MINIMUM HEIGHT OF 18" FOR WET PAVEMENT MARKINGS

- ① SIGNS SHALL BE REPEATED APPROXIMATELY EVERY THREE MILES AND AFTER EVERY ON RAMP.
- ② IF CONSTRUCTION WORK ZONE SIGNS ARE IN PLACE, W20-1A OR W21-63 ARE NOT REQUIRED.



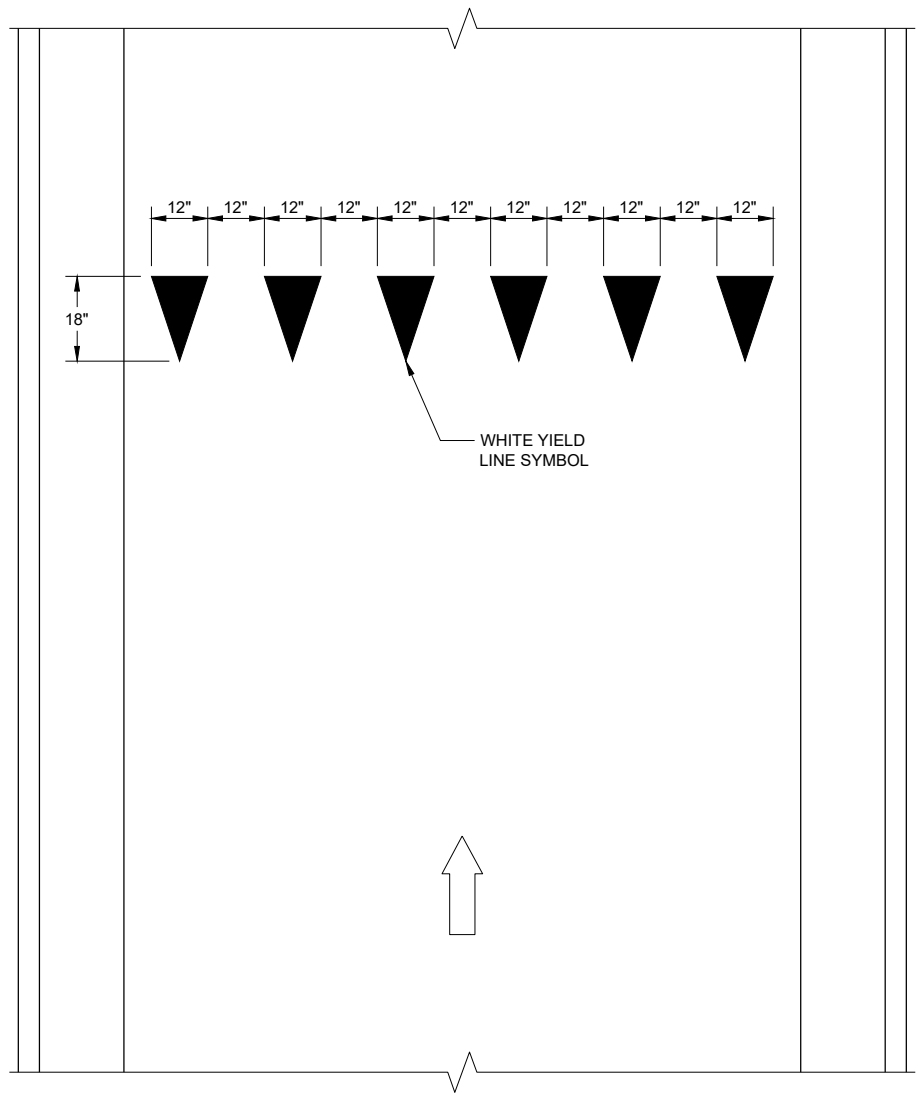
MOVING PAVEMENT MARKING OPERATIONS
MULTILANE DIVIDED ROADWAY

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

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION


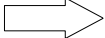
APPROVED
November 2019 /S/ Andrew Heidtke
DATE WORK ZONE ENGINEER

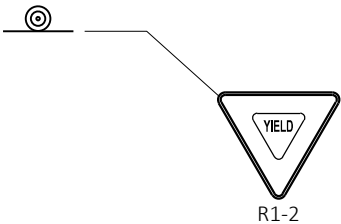
FHWA



YIELD LINE

LEGEND

-  SIGN ON PERMANENT SUPPORT
-  DIRECTION OF TRAVEL



YIELD MARKINGS

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
4-81-2016
DATE

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

FHWA

GENERAL NOTES

SIGNING AND MARKING IS SHOWN AS TYPICAL PLACEMENT. FIELD CONDITIONS MAY DICTATE CHANGES IN SIGNING AND MARKING PLACEMENT.

① USED ONLY WHEN APPROVED BY REGION TRAFFIC ENGINEER.

* SIGNS MAY BE OMITTED IF SPACE DOES NOT PERMIT PLACEMENT.

** IF POSTED SPEED IS 45 MPH OR GREATER, PLACE W5-54 SIGN UNDER R4-7 SIGN. MOUNT W5-54 SIGN AT 4' MOUNTING HEIGHT (TOP OF ROADWAY TO BOTTOM OF SIGN).

LEGEND

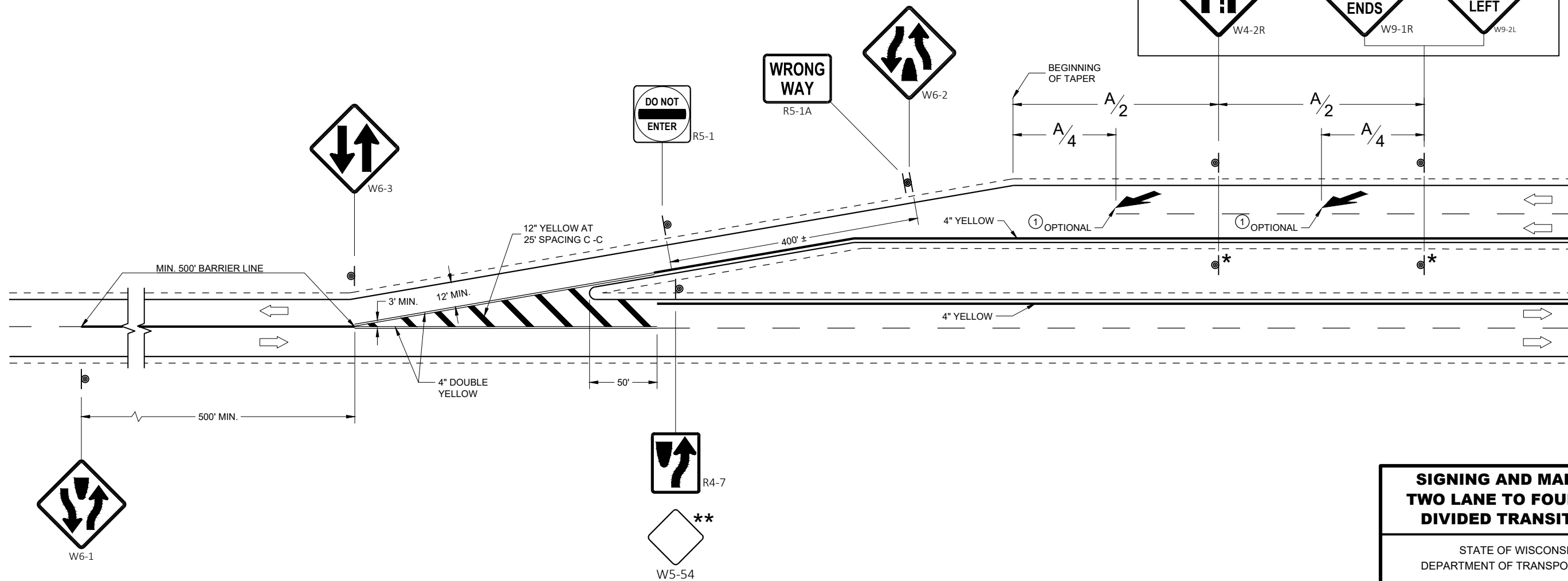
A DISTANCE DEPENDENT ON SPEED (SEE TABLE)

⦿ SIGN MOUNTED ON PERMANENT SUPPORT

➡ DIRECTION OF TRAFFIC

DISTANCE TABLE

POSTED OR 85TH PERCENTILE SPEED	DISTANCE "A"
25	325'
30	460'
35	565'
40	670'
45	775'
50	885'
55	990'
65	1200'
70	1250'



OPTION 2

OPTION 1

SIGNING AND MARKING TWO LANE TO FOUR LANE DIVIDED TRANSITIONS

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED

May 2020

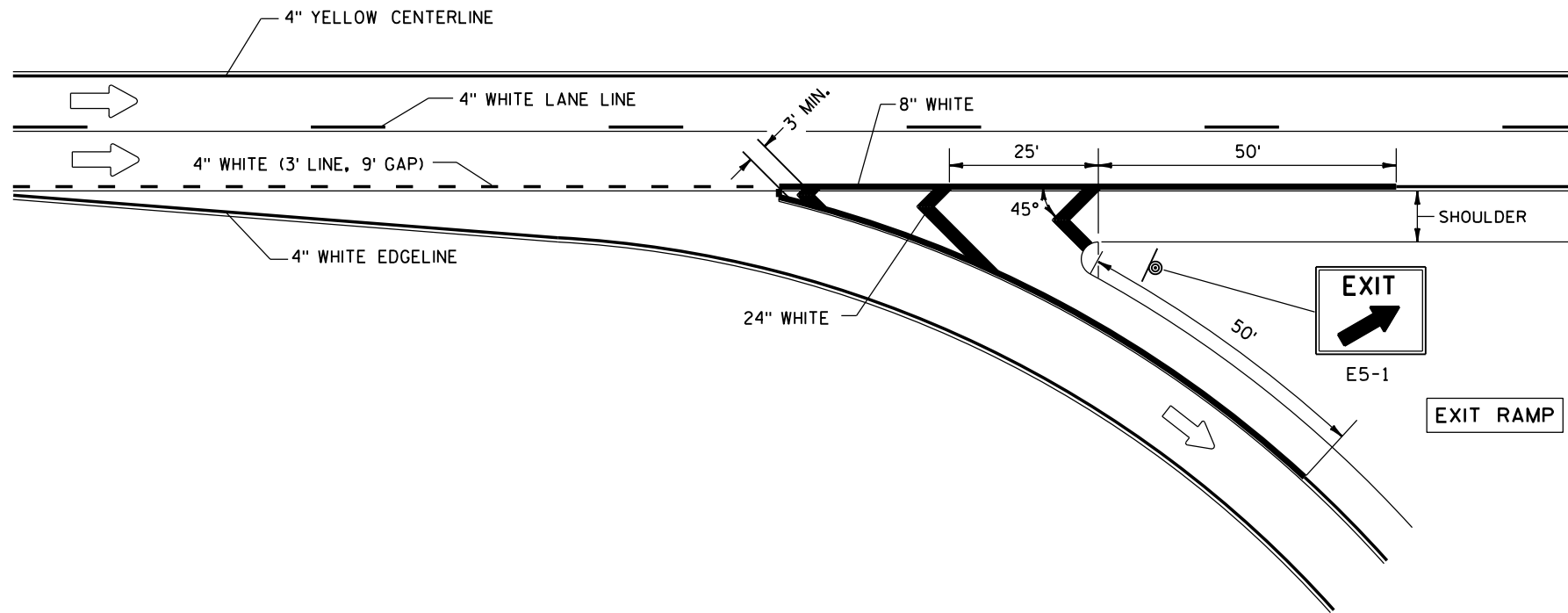
DATE

FHWA

/S/ Matthew Rauch

STATE SIGNING AND MARKING

ENGINEER



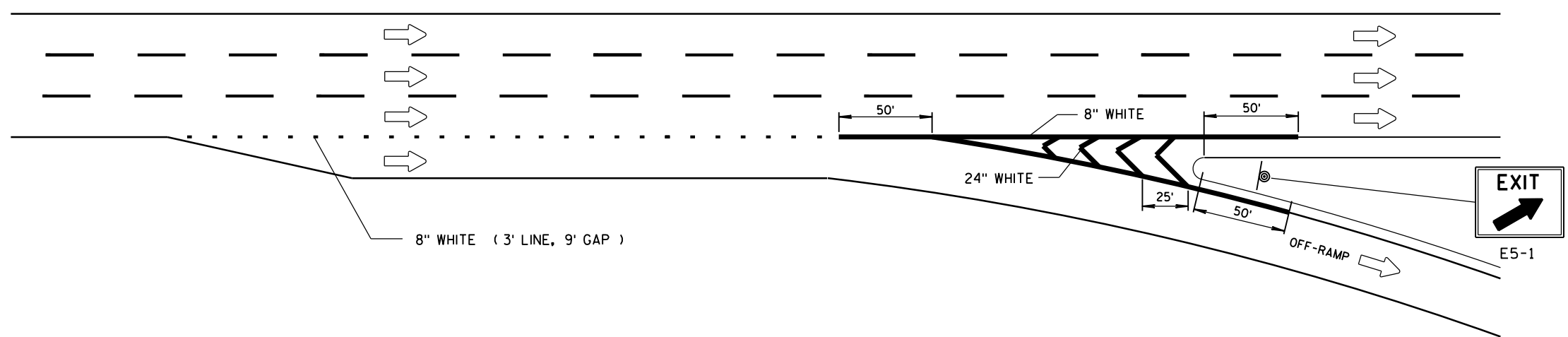
GENERAL NOTES

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

PAVEMENT MARKING
(RAMPS AND GOES)

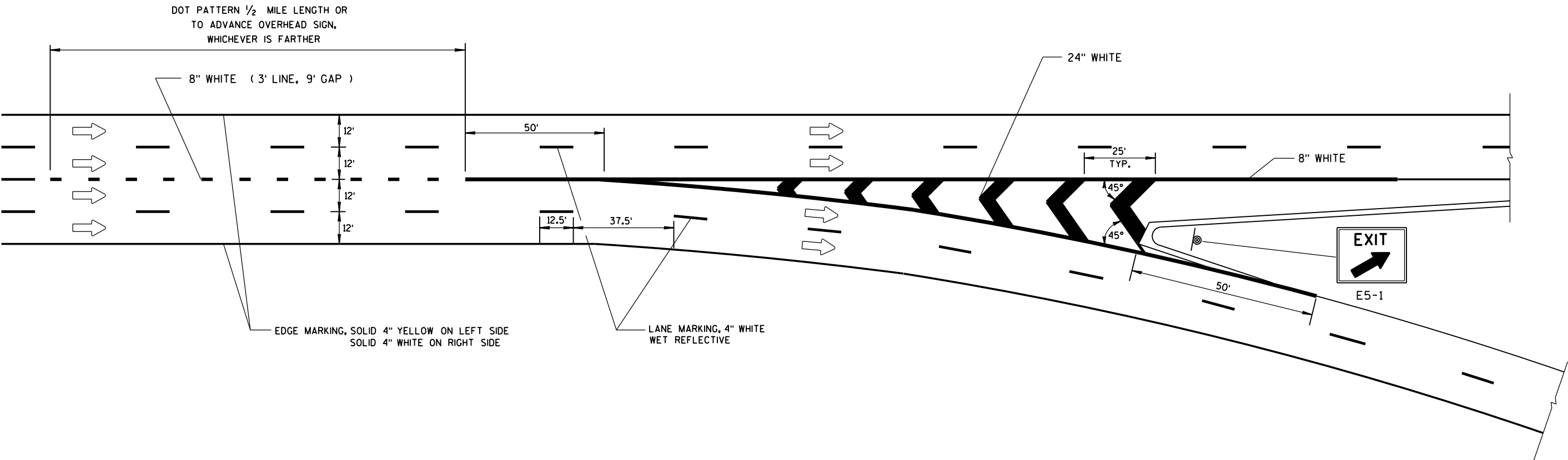
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

GENERAL NOTES

PLACE GROOVE 3 INCHES LEFT OF JOINT.

LEGEND

- ➡ DIRECTION OF TRAVEL
- ⊙ SIGN ON PERMANENT SUPPORT



PAVEMENT MARKING
MAJOR SPLIT
FREEWAY TO FREEWAY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

GENERAL NOTES

PLACE GROOVE 3 INCHES LEFT OF JOINT.

① 1/2 LENGTH OF FULL WIDTH ACCELERATION LANE.

PAVEMENT MARKING FOR ENTRANCE RAMP

LEGEND

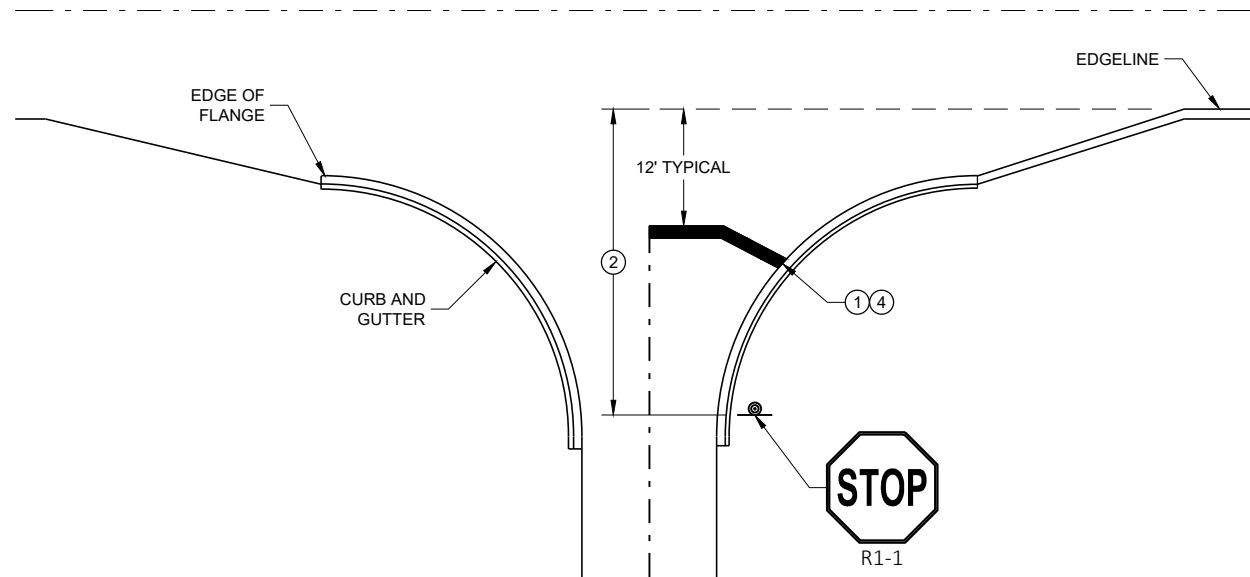
➡ DIRECTION OF TRAVEL

SERVICE INTERCHANGE PAVEMENT MARKING FOR PARALLEL ENTRANCE-RAMP

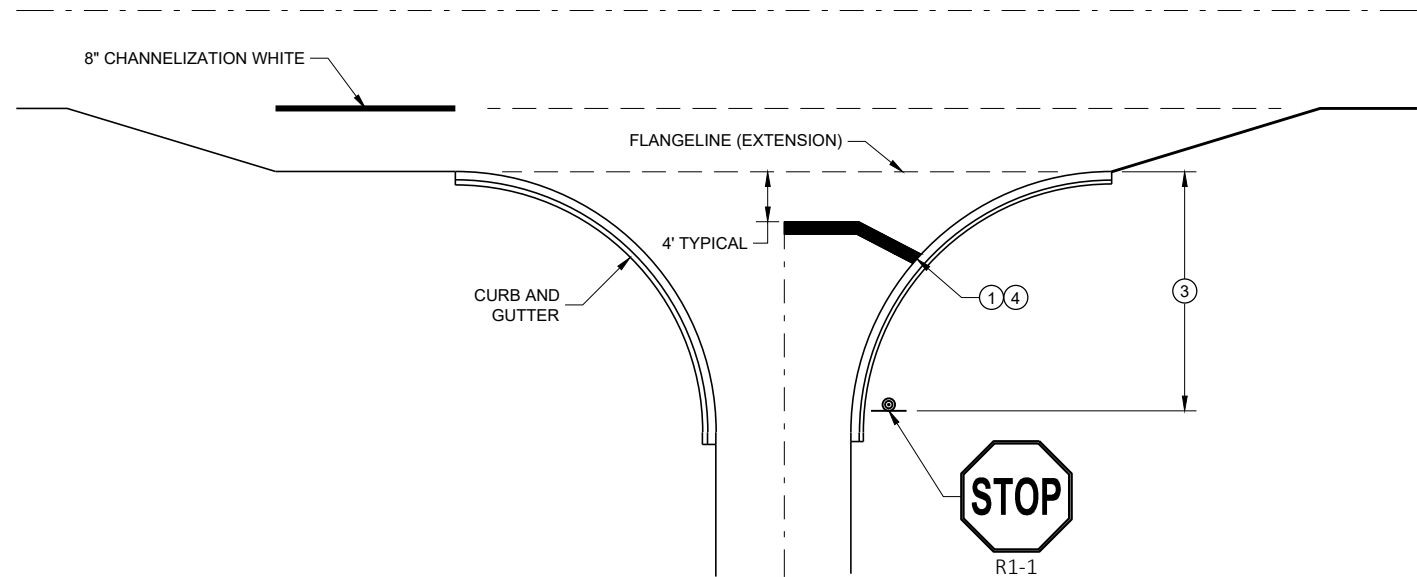
**PAVEMENT MARKING FOR
PARALLEL ON-RAMP AND
PARALLEL OFF-RAMP**

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

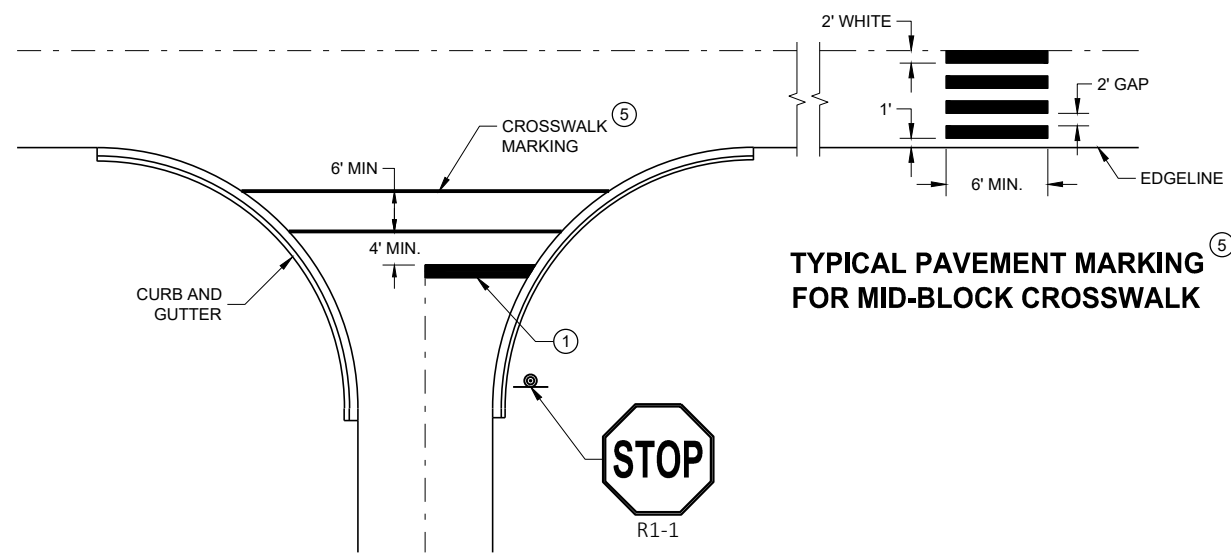
APPROVED
Sept., 2017 /S/ Matthew R. Rauch
DATE STATE SIGNING AND MARKING ENGINEER
FHWA



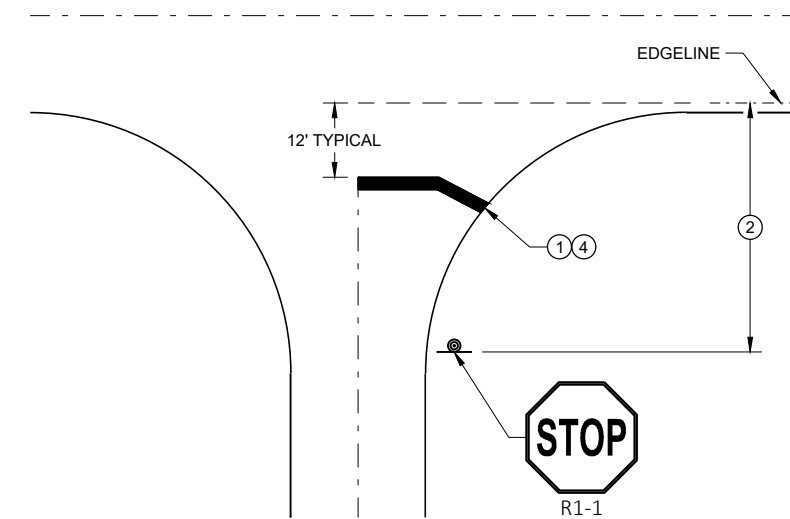
TYPICAL STOP LINE PAVEMENT MARKING
WITH CURB AND GUTTER



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

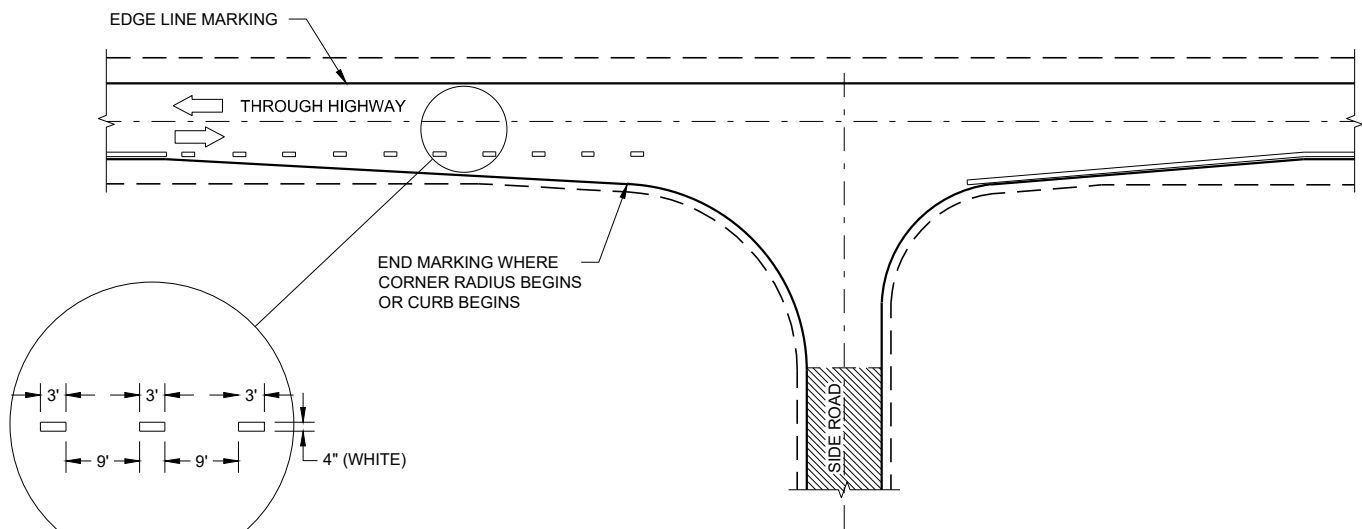
STOP SIGN SHALL BE PLACED A MINIMUM OF 6 FEET TO A MAXIMUM OF 50 FEET FROM THE EDGE LINE LOCATION.

- ① 18-INCH STOP LINES MAY BE DELETED OR ADDED BY THE REGION MARKING ENGINEER BASED ON VISIBILITY AND SIGHT LINES.
- ② NO STOP LINE IS REQUIRED IF STOP SIGN IS LESS THAN OR EQUAL TO 40 FEET FROM THE EDGE LINE.
- ③ NO STOP LINE IS REQUIRED IF STOP SIGN IS LESS THAN OR EQUAL TO 30 FEET FROM THE FLANGE LINE EXTENSION.
- ④ MOVE CLOSER TO THE EDGE OF TRAVEL LINE AS NEEDED FOR VISIBILITY AND SIGHT LINES (NO CLOSER THAN 4 FEET).
- ⑤ LADDER BAR CROSSWALKS SHOULD ONLY BE USED FOR MID BLOCK CROSSINGS. USE 2 - 6" TRANSVERSE LINES INSTEAD.

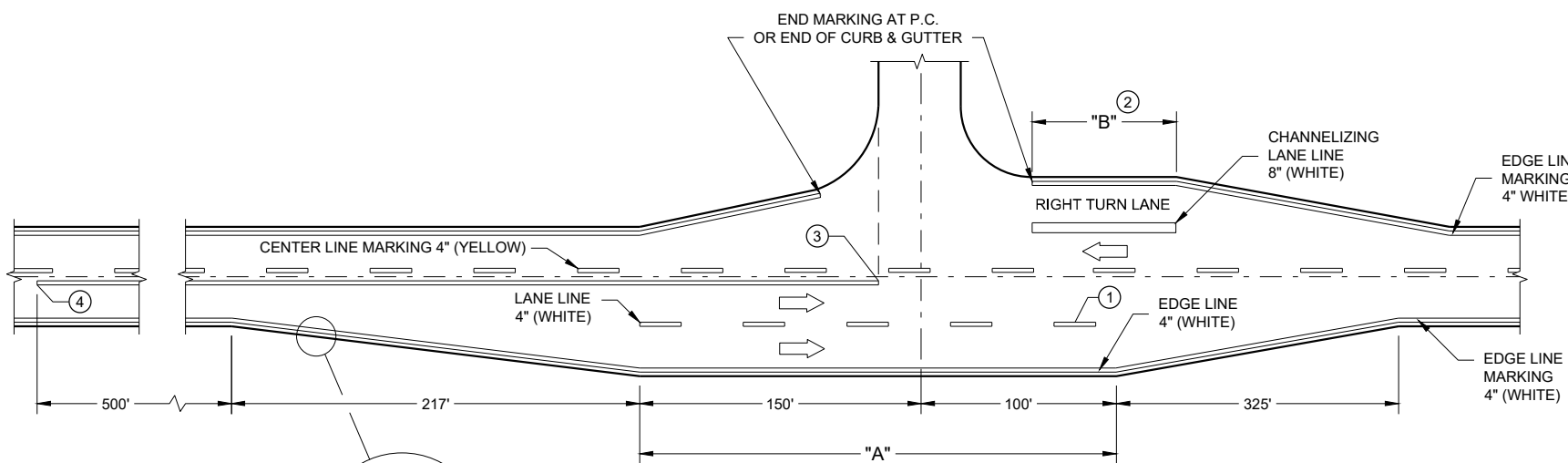
STOP LINE AND CROSSWALK
PAVEMENT MARKING

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
November 2019 /S/ Matthew Rauch
DATE STATE SIGNING AND MARKING
ENGINEER
FHWA



MINOR INTERSECTION



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

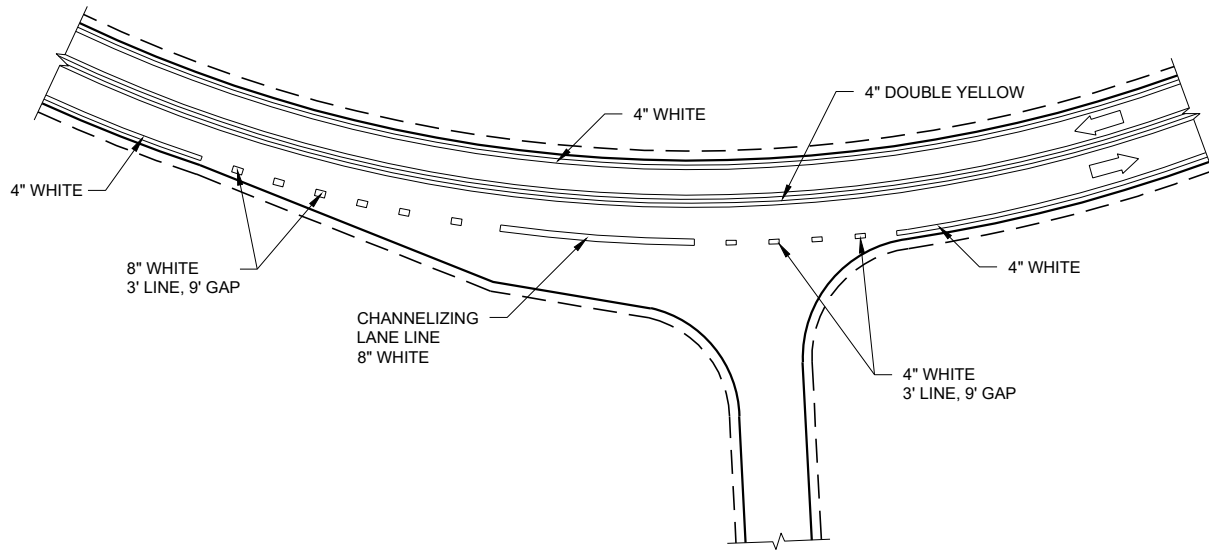
GENERAL NOTES

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.

LEGEND

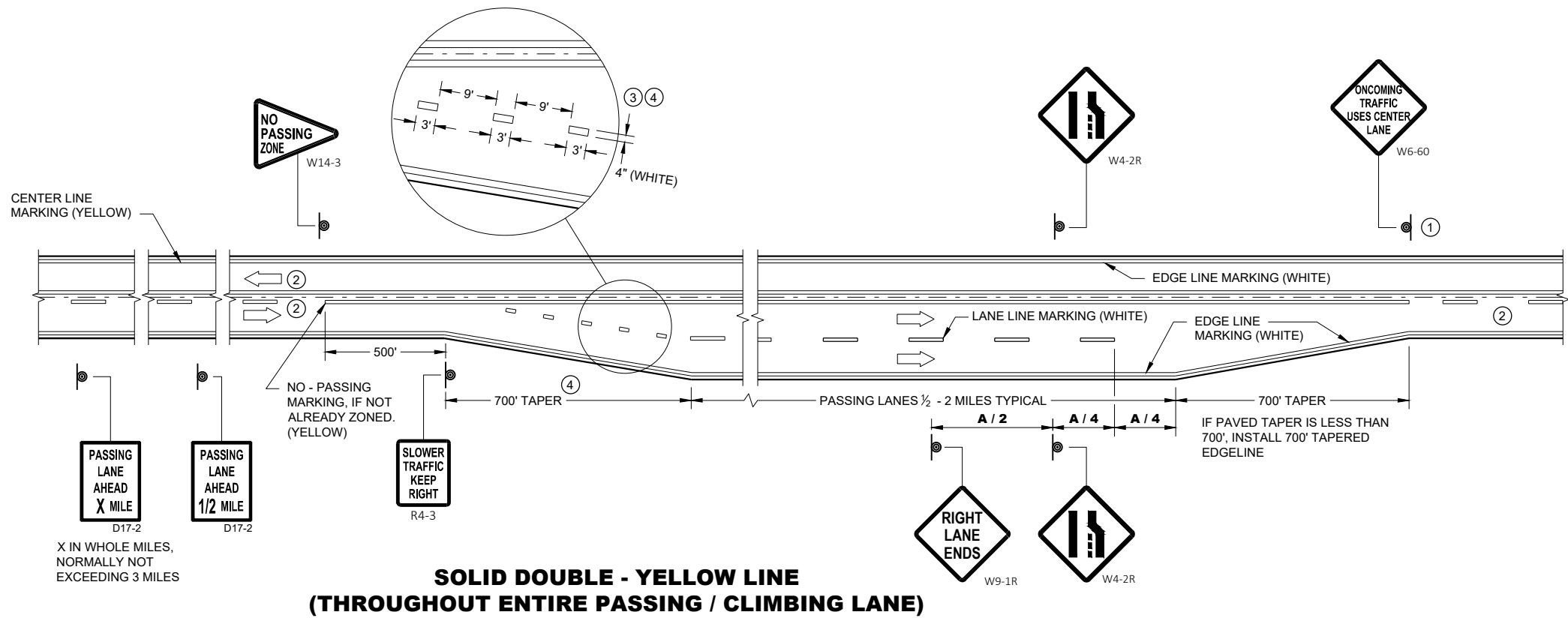
➡ DIRECTION OF TRAVEL



INTERSECTION ON OUTSIDE OF CURVE


PAVEMENT MARKING
(INTERSECTIONS)

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION



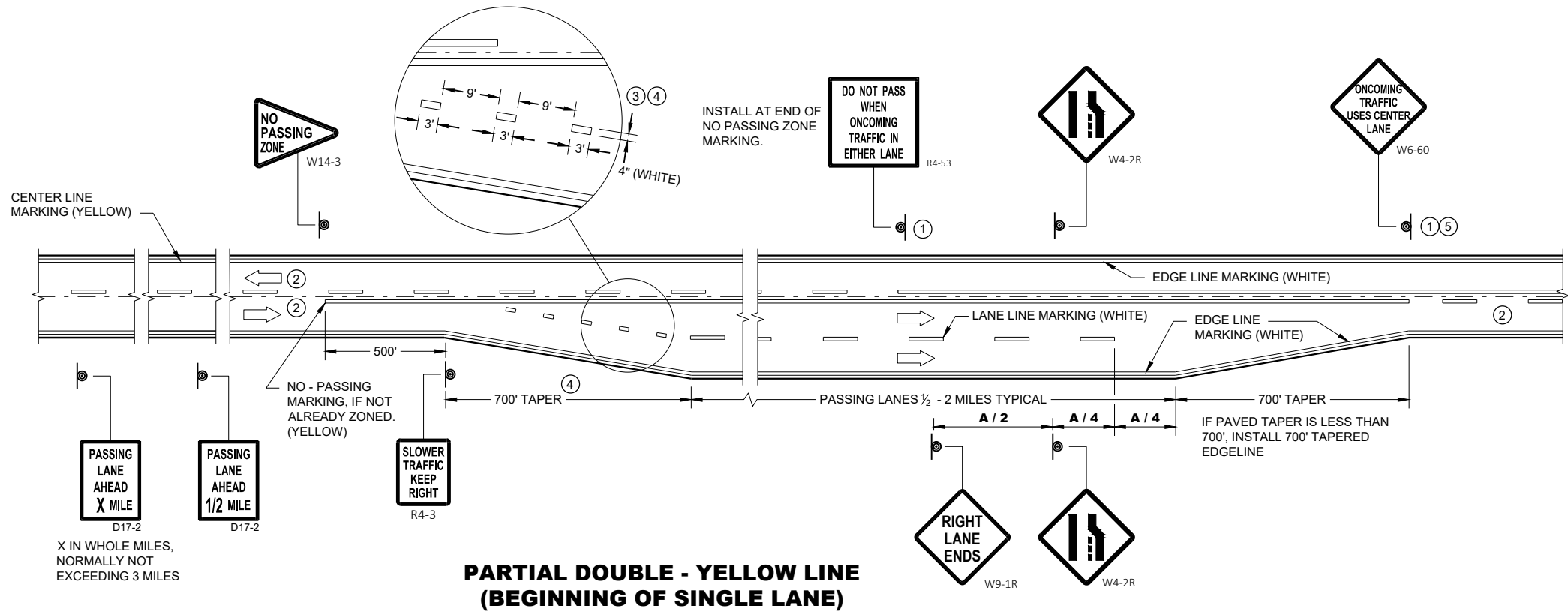
GENERAL NOTES

- 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 / CLIMBING LANE IS LESS THAN THE ADJACENT HIGHWAY, DO NOT INSTALL DOTTED LINE PAVEMENT MARKING.
- 5 REPEAT EVERY 1 MILE UP UNTIL R4-53.

ARROW SYMBOL () SHOWS DIRECTION OF TRAVEL

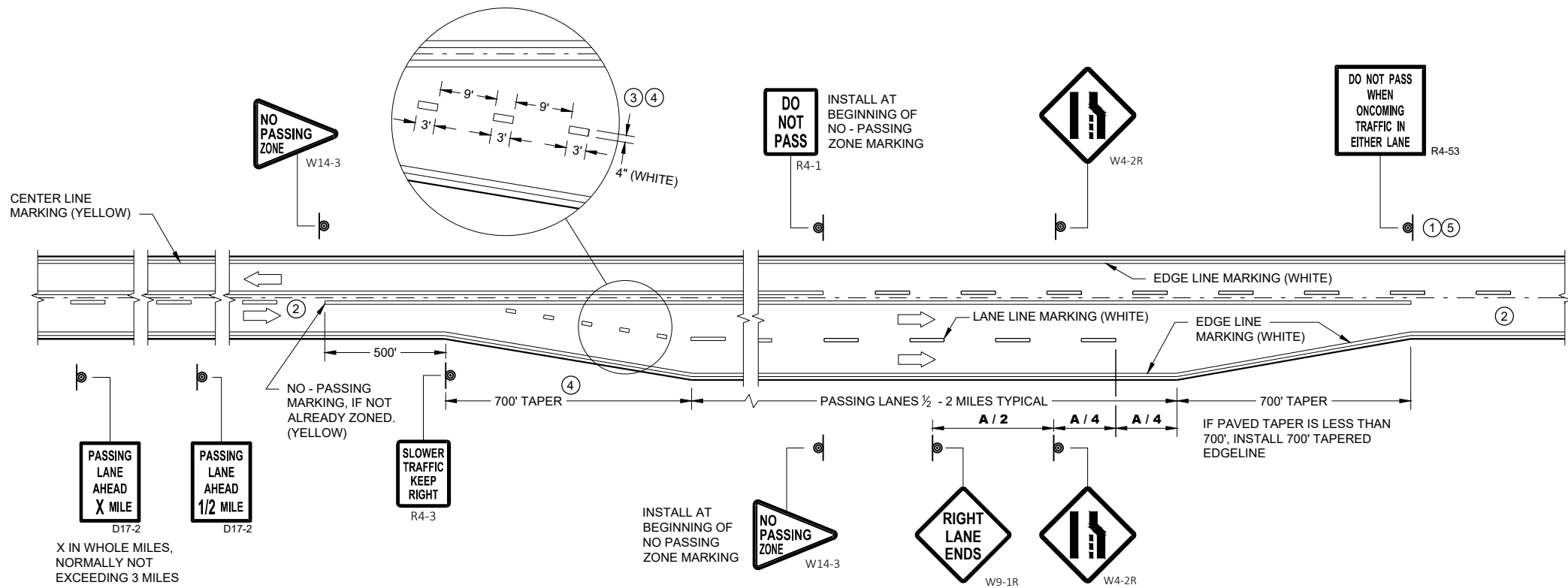
DISTANCE TABLE

POSTED OR 85th PERCENTILE SPEED	DISTANCE "A"
45	775
50	885
55	990

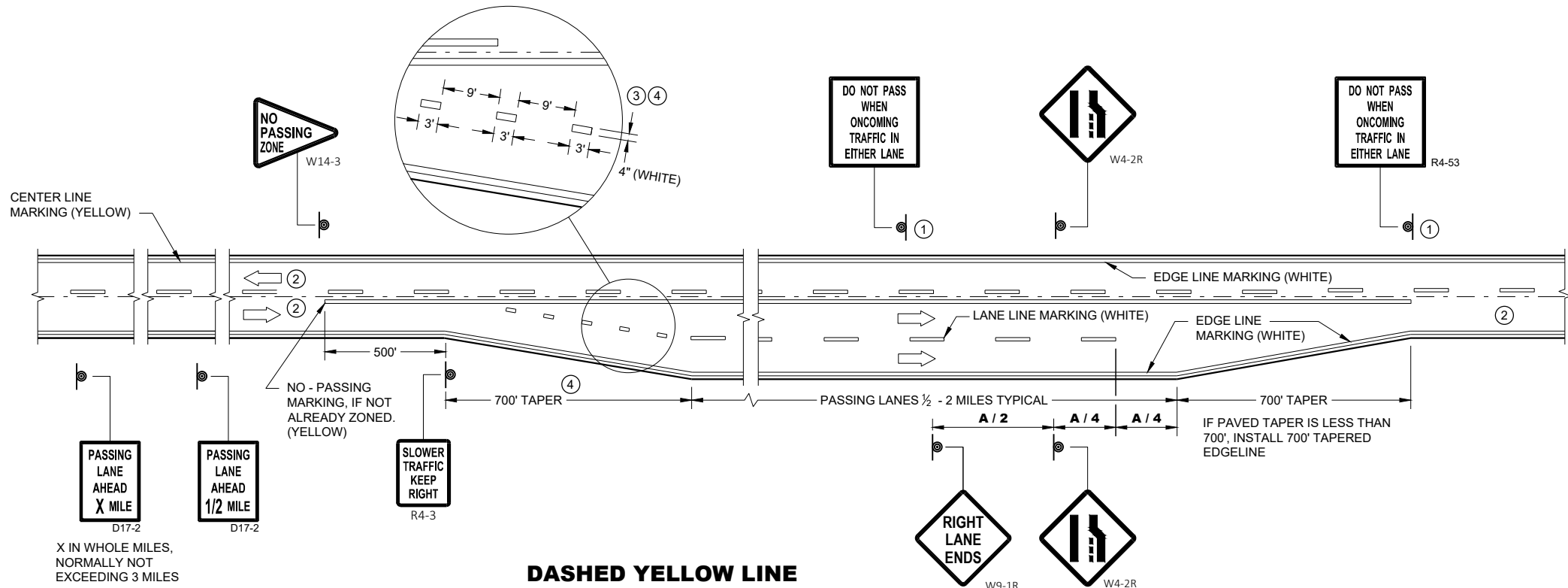


**PAVEMENT MARKING & SIGNING
(CLIMBING LANE &
PASSING LANE)**

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 / CLIMBING LANE IS LESS THAN THE ADJACENT HIGHWAY, DO NOT INSTALL DOTTED LINE PAVEMENT MARKING.
- ⑤ REPEAT EVERY ONE MILE UP UNTIL NO PASSING ZONE.

ARROW SYMBOL () SHOWS DIRECTION OF TRAVEL

DISTANCE TABLE

POSTED OR 85th PERCENTILE SPEED	DISTANCE "A"
45	775
50	885
55	990

**PAVEMNET MARKING & SIGNING
(CLIMBING LANE & PASSING LANE)**

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
November 2019 /S/ Matthew Rauch
DATE STATE SIGNING AND MARKING ENGINEER
FHWA

GENERAL NOTES

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

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

THIS LANE CLOSURE IS TYPICAL FOR CLOSING RIGHT LANE - REVERSE FOR CLOSING LEFT LANE.

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

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

ANY SIGNS TEMPORARY OR EXISTING, WHICH CONFLICT WITH TRAFFIC CONTROL "IN USE" SHALL BE REMOVED OR COVERED AS NEEDED OR AS APPROVED BY THE ENGINEER.

FOR A LANE CLOSURE THAT IS IN PLACE LESS THAN 7 CONTINUOUS DAYS AND NIGHTS, THE ADVANCED WARNING SIGNS MAY BE MOUNTED ON PORTABLE SUPPORTS.

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

IF THE HORIZONTAL ALIGNMENT IS SUCH THAT A CURVE MAY REQUIRE ADDITIONAL DELINEATION, THE DEVICE SPACING MAY BE DECREASED TO 50 FEET.

WARNING LIGHTS ARE NOT REQUIRED IF THE LANE CLOSURE IS A DAYTIME ONLY OPERATION.

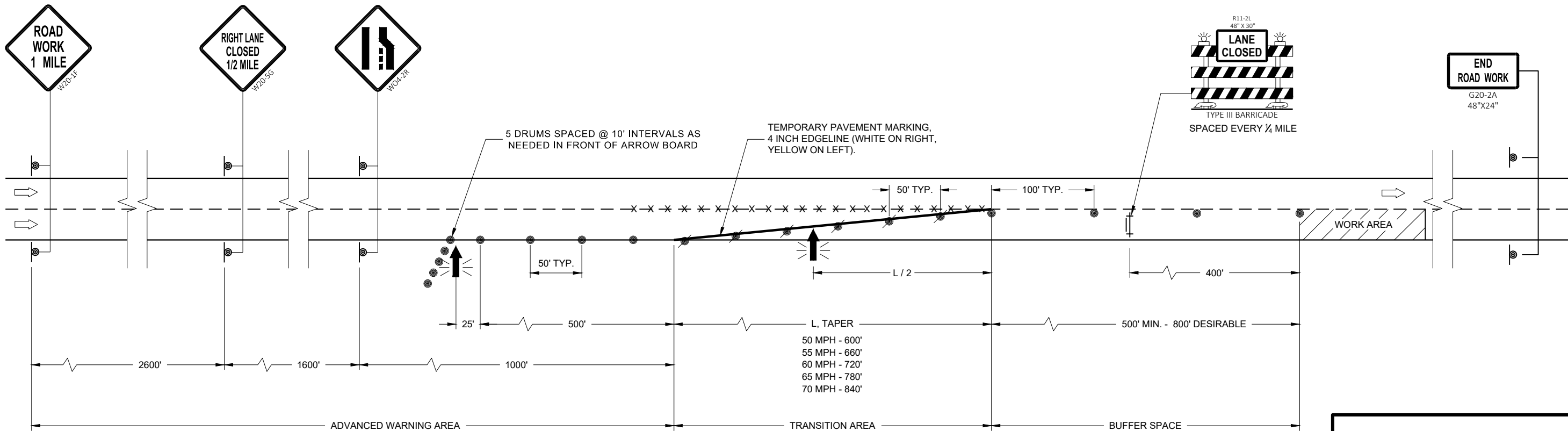
ADJUSTMENTS IN BUFFER SPACE NEED TO BE INCORPORATED WHEN THE LANE CLOSURE OCCURS

NEAR AN INTERCHANGE EXIT OR ENTRANCE RAMP OR INTERSECTION. THE LANE CLOSURE MUST TAKE PLACE FAR ENOUGH IN ADVANCE OF AN EXIT OR ENTRANCE RAMP TO STILL ALLOW FOR ADEQUATE BUFFER SPACE. THE MINIMUM LENGTH OF THE BUFFER SPACE BEFORE AN EXIT RAMP SHOULD BE ONE HALF THE LENGTH OF THE TRANSITION AREA. THE ENTRANCE RAMP SHOULD BE FOLLOWED BY THE ORIGINAL BUFFER SPACE LENGTH OF 800 FEET DESIRABLE PRIOR TO ANOTHER TRAFFIC CONTROL CHANGE SUCH AS A CROSSOVER MANEUVER.

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

LEGEND

- SIGN ON PERMANENT SUPPORT
- TRAFFIC CONTROL DRUM
- TRAFFIC CONTROL DRUM WITH TYPE "C" STEADY BURN LIGHT
- TYPE III BARRICADE WITH ATTACHED SIGN
- TYPE "A" WARNING LIGHT (FLASHING)
- REMOVING PAVEMENT MARKINGS
- DIRECTION OF TRAFFIC
- WORK AREA
- FLASHING ARROW BOARD



TRAFFIC CONTROL LANE CLOSURE	
STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION	
APPROVED August 2020 DATE	/S/ Andrew Heidtke WORK ZONE ENGINEER
FHWA	

GENERAL NOTES

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

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

THIS LANE CLOSURE IS TYPICAL FOR CLOSING RIGHT LANE - REVERSE FOR CLOSING LEFT LANE.

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

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

ANY SIGNS TEMPORARY OR EXISTING, WHICH CONFLICT WITH TRAFFIC CONTROL "IN USE" SHALL BE REMOVED OR COVERED AS NEEDED OR AS APPROVED BY THE ENGINEER.

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

FOR A LANE CLOSURE THAT IS IN PLACE LESS THAN 7 CONTINUOUS DAYS AND NIGHTS, THE ADVANCED WARNING SIGNS MAY BE MOUNTED ON PORTABLE SUPPORTS.

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

WARNING LIGHTS ARE NOT REQUIRED IF THE LANE CLOSURE IS A DAYTIME ONLY OPERATION.

IF THE HORIZONTAL ALIGNMENT IS SUCH THAT A CURVE MAY REQUIRE ADDITIONAL DELINEATION, THE DEVICE SPACING MAY BE DECREASED TO 50 FEET.

ADJUSTMENTS IN BUFFER SPACE NEED TO BE INCORPORATED WHEN THE LANE CLOSURE OCCURS NEAR AN INTERCHANGE EXIT OR ENTRANCE RAMP OR INTERSECTION. THE LANE CLOSURE MUST TAKE PLACE FAR ENOUGH IN ADVANCE OF AN EXIT OR ENTRANCE RAMP TO STILL ALLOW FOR ADEQUATE BUFFER SPACE. THE MINIMUM LENGTH OF THE BUFFER SPACE BEFORE AN EXIT RAMP SHOULD BE ONE HALF THE LENGTH OF THE TRANSITION AREA. THE ENTRANCE RAMP SHOULD BE FOLLOWED BY THE ORIGINAL BUFFER SPACE LENGTH OF 800 FEET DESIRABLE PRIOR TO ANOTHER TRAFFIC CONTROL CHANGE SUCH AS A CROSSOVER MANEUVER.

* A SPEED LIMIT SIGN SHALL BE LOCATED 1500 FEET BEYOND THE END OF THE ACCELERATION LANE OF EACH ENTRANCE RAMP. PLACE A SPEED LIMIT SIGN A MINIMUM OF EVERY 3 MILES. INCLUDE A RESUME SPEED LIMIT SIGN 200 FEET MINIMUM (500 FEET DESIRABLE) BEYOND THE "END OF ROADWORK" SIGN.

LEGEND

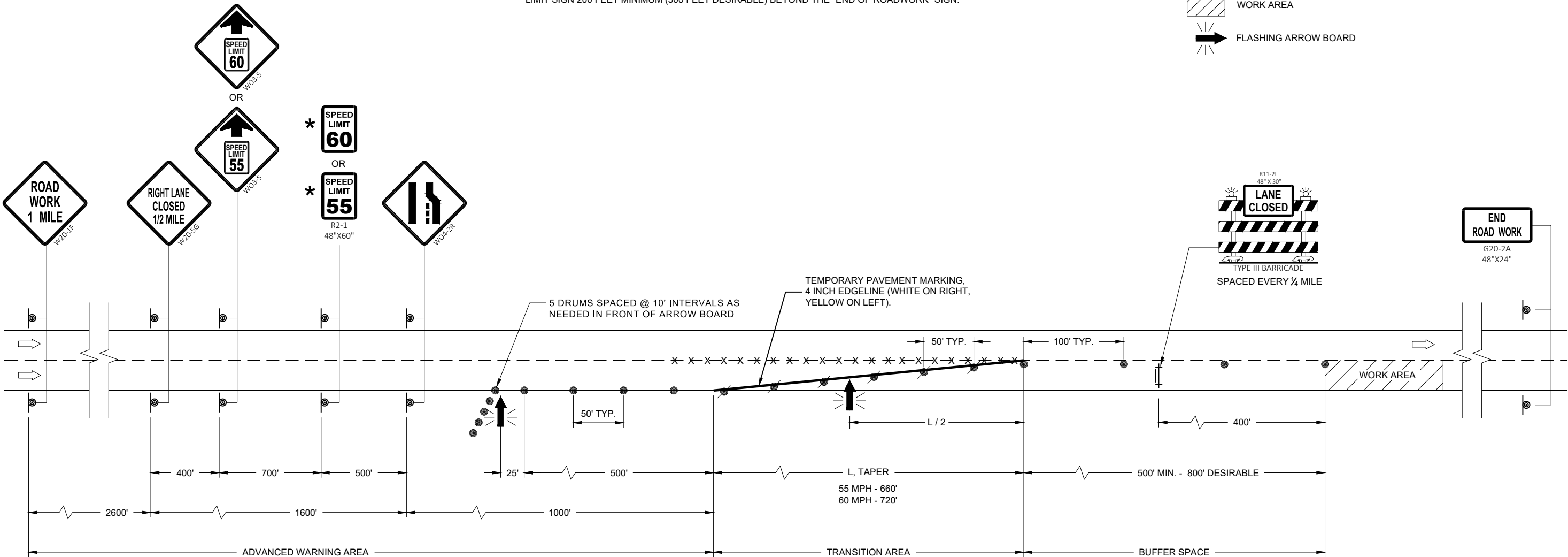
- SIGN ON PERMANENT SUPPORT
- TRAFFIC CONTROL DRUM
- TRAFFIC CONTROL DRUM WITH TYPE "C" STEADY BURN LIGHT
- TYPE III BARRICADE WITH ATTACHED SIGN
- TYPE "A" WARNING LIGHT (FLASHING)

✕ ✕ ✕ REMOVING PAVEMENT MARKINGS

➡ DIRECTION OF TRAFFIC

WORK AREA

FLASHING ARROW BOARD

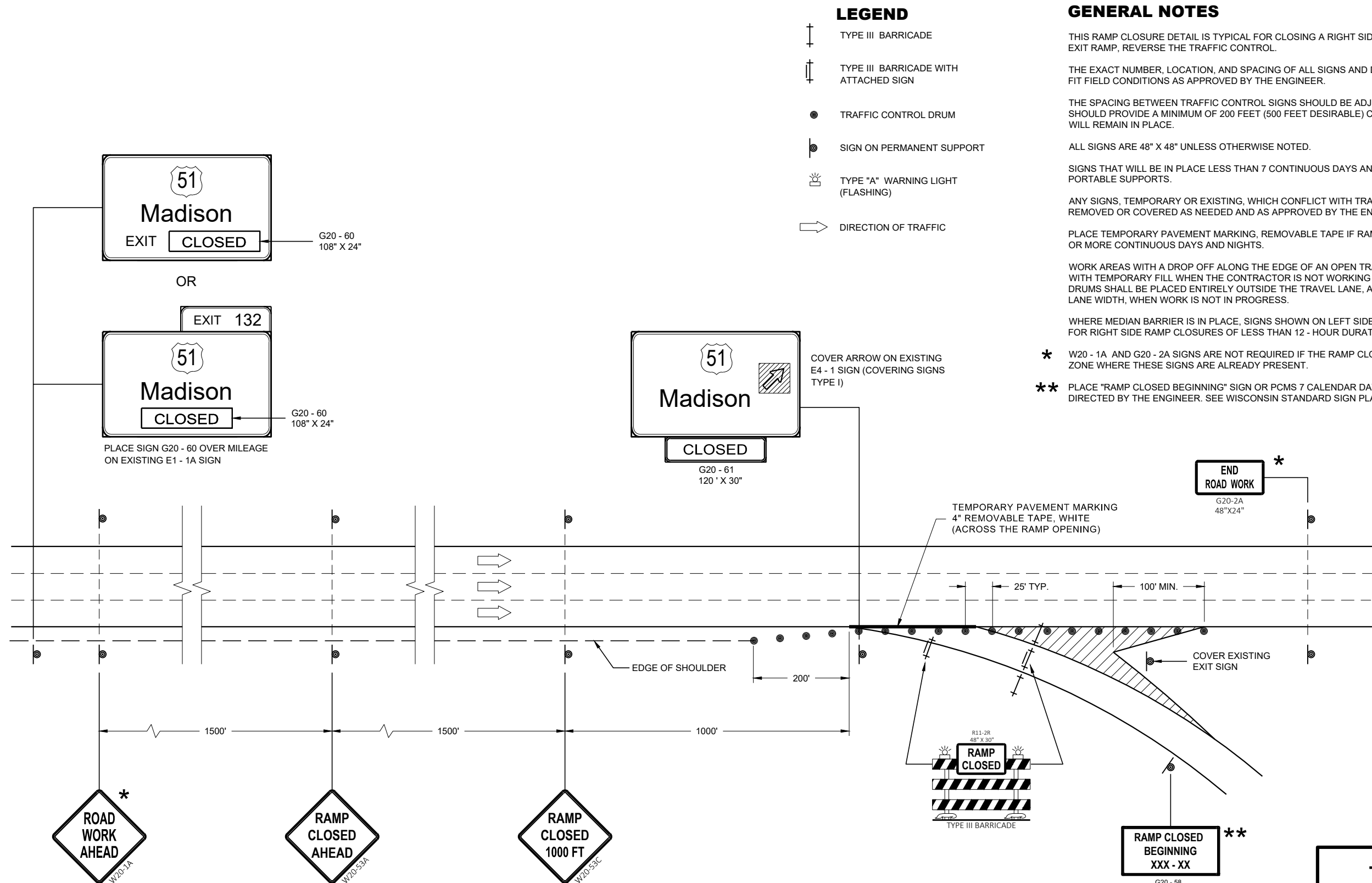


TRAFFIC CONTROL,
LANE CLOSURE,
SPEED REDUCTION

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
August 2020 /S/ Andrew Heidtke
DATE WORK ZONE ENGINEER

FHWA



TRAFFIC CONTROL, EXIT RAMP CLOSURE	
STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION	
APPROVED November 2018 DATE	/S/ Andrew Heidtke ROADWAY STANDARDS DEVELOPMENT ENGINEER
FHWA	

LEGEND

- SIGN ON PERMANENT SUPPORT
- TRAFFIC CONTROL DRUM
- TRAFFIC CONTROL DRUM WITH TYPE "C" STEADY BURN LIGHT
- TYPE III BARRICADE WITH ATTACHED SIGN
- TYPE "A" WARNING LIGHT (FLASHING)
- FLASHING ARROW BOARD
- DIRECTION OF TRAFFIC
- REMOVE PAVEMENT MARKING (SEE GENERAL NOTES)
- WORK AREA

GENERAL NOTES

FOR WORK ON ROADWAYS WITH SPEEDS GREATER THAN 45MPH, USE SDD 15D12.

THIS LANE CLOSURE DETAIL IS TYPICAL FOR CLOSING THE LEFT LANE. FOR A RIGHT LANE CLOSURE, REVERSE THE TRAFFIC CONTROL.

THIS DETAIL MAY BE USED FOR ROADWAYS WITH EITHER TWO OR THREE LANES IN EACH DIRECTION.

ALL SIGNS ARE 48"x48" UNLESS OTHERWISE NOTED. IF NECESSARY DUE TO SPACE CONSTRAINTS IN URBAN AREAS, 36"x 36" SIGNS MAY BE USED IF APPROVED BY REGIONAL TRAFFIC UNIT.

"WO" SIGN IS THE SAME AS "W" SIGN EXCEPT THE BACKGROUND IS ORANGE.

ANY SIGNS TEMPORARY OR EXISTING, WHICH CONFLICT WITH THE TRAFFIC CONTROL "IN USE" SHALL BE REMOVED OR COVERED AS NEEDED AND AS APPROVED BY THE ENGINEER. NO WARNING LIGHTS SHALL BE WORKING ON COVERED OR "DOWNED" SIGNS.

SIGNS THAT WILL BE IN PLACE LESS THAN 7 CONTINUOUS DAYS AND NIGHTS OR THAT WILL BE PLACED IN A CLOSED LANE MAY BE MOUNTED ON TEMPORARY SUPPORTS.

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

THE SPACING BETWEEN TRAFFIC CONTROL SIGNS SHOULD BE ADJUSTED TO NOT CONFLICT WITH AND TO PROVIDE A MINIMUM OF 200 FEET (500' DESIRABLE) DISTANCE TO EXISTING SIGNS THAT WILL REMAIN IN PLACE

W20-1A, G20-1 AND G20-2A SIGNS ARE NOT REQUIRED IF THE LANE CLOSURE IS WITHIN A LARGER WORK ZONE WHERE THESE SIGNS ARE ALREADY PRESENT.

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

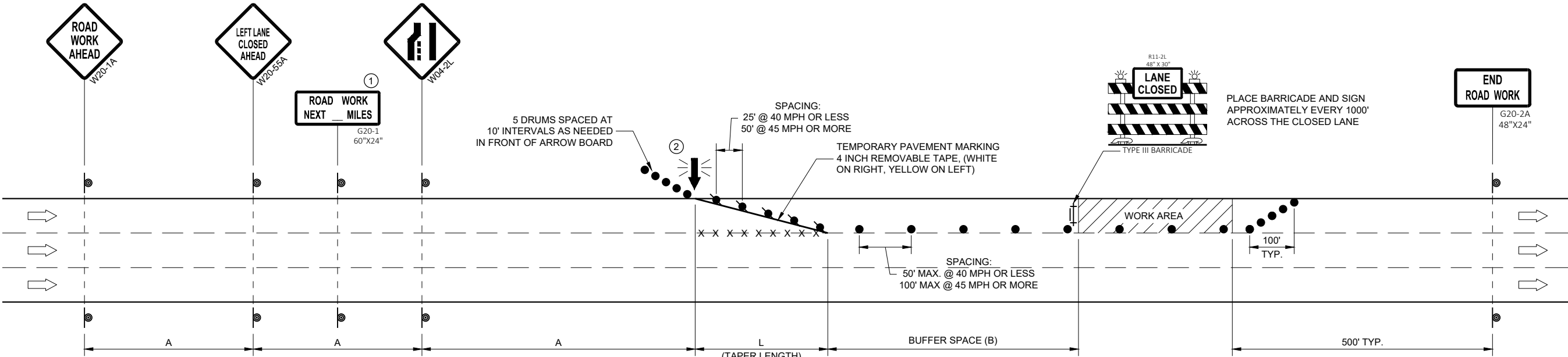
CONSIDER GEOMETRICS WHEN LOCATING SIGNS AND ARROW BOARDS SO THE APPROACHING DRIVER HAS A CLEAR VIEW OF THE ARROW BOARDS AND LANE CLOSURE DRUMS FOR A MINIMUM 1500 FEET IN FRONT OF DRUMS.

BARRICADES IN A CLOSED LANE THAT MUST BE MOVED FOR A WORK OPERATION SHALL BE IMMEDIATELY REESTABLISHED UPON COMPLETION OF THE OPERATION, OR FOR CONTINUING OPERATIONS, AT THE END OF EACH WORKING DAY.

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

WARNING LIGHTS ARE NOT REQUIRED IF THE LANE CLOSURE IS A DAYTIME ONLY OPERATION.

- ① OMIT G20-1 SIGNS IF LENGTH OF WORK AREA IS 2 MILES OR LESS.
- ② WHERE THE SHOULDER OR TERRACE HAS INSUFFICIENT SPACE TO PLACE THE ARROW BOARD AS SHOWN, PLACE THE ARROW BOARD AT THE END OF THE TAPER.



POSTED SPEED LIMIT PRIOR TO WORK STARTING (MPH)	ADVANCE WARNING SIGN SPACING (A) FEET	TAPER LENGTH (12 FT. LANE) (L) FEET	BUFFER SPACE (B) FEET
25	200'	125'	55'
30	200'	180'	85'
35	350'	245'	120'
40	350'	320'	170'
45	500'	540'	220'

TRAFFIC CONTROL, SINGLE LANE CLOSURE, DIVIDED NON-FREEWAY/EXPRESSWAY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
May 2020
DATE

/S/ Andrew Heidtke
STATEWIDE WORK ZONE TRAFFIC SAFETY ENGINEER

FHWA

LEGEND

- TRAFFIC CONTROL DRUM
- ⦿ SIGN ON PERMANENT SUPPORT
- ➡ DIRECTION OF TRAFFIC
- ⚡➡ FLASHING ARROW BOARD
- ▨ WORK AREA

GENERAL NOTES

THIS DETAIL IS TYPICAL FOR CLOSING THE RIGHT SHOULDER. FOR CLOSING THE LEFT SHOULDER, REVERSE THE TRAFFIC CONTROL.

THIS DETAIL MAY BE USED FOR DIVIDED ROADWAYS WITH ANY NUMBER OF TRAVEL LANES.

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.

SIGN LAYOUTS SHALL BE IN ACCORDANCE WITH THE FHWA'S MANUAL OF STANDARD HIGHWAY SIGNS OR THE WISCONSIN STANDARD SIGN PLATES.

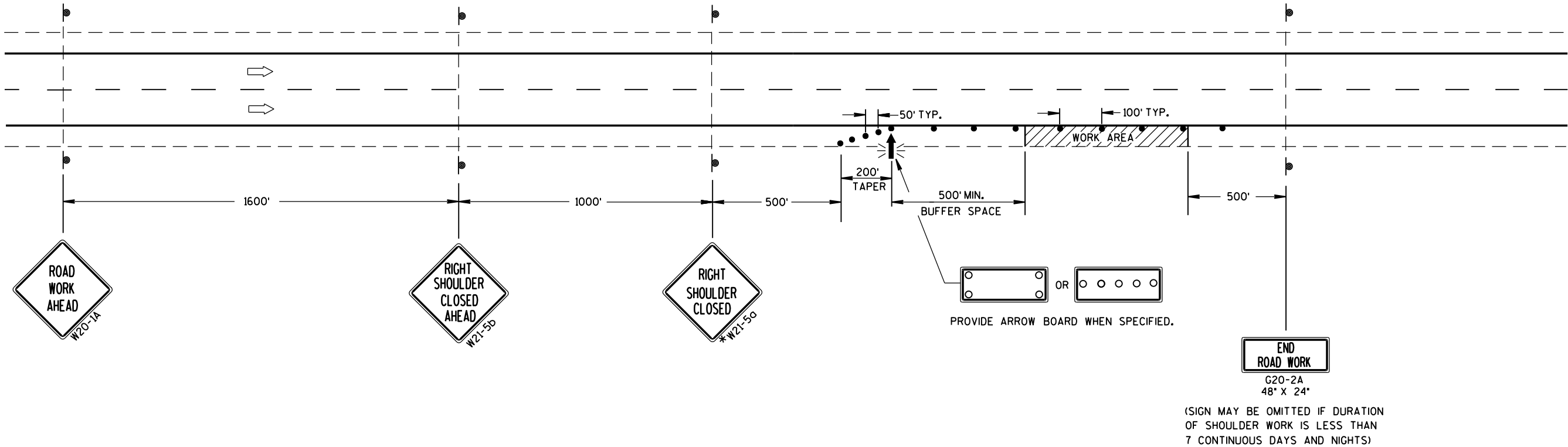
SIGNS THAT WILL BE IN PLACE LESS THAN 7 CONTINUOUS DAYS AND NIGHTS MAY BE MOUNTED ON PORTABLE SUPPORTS.

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.

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

WHEN A 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.

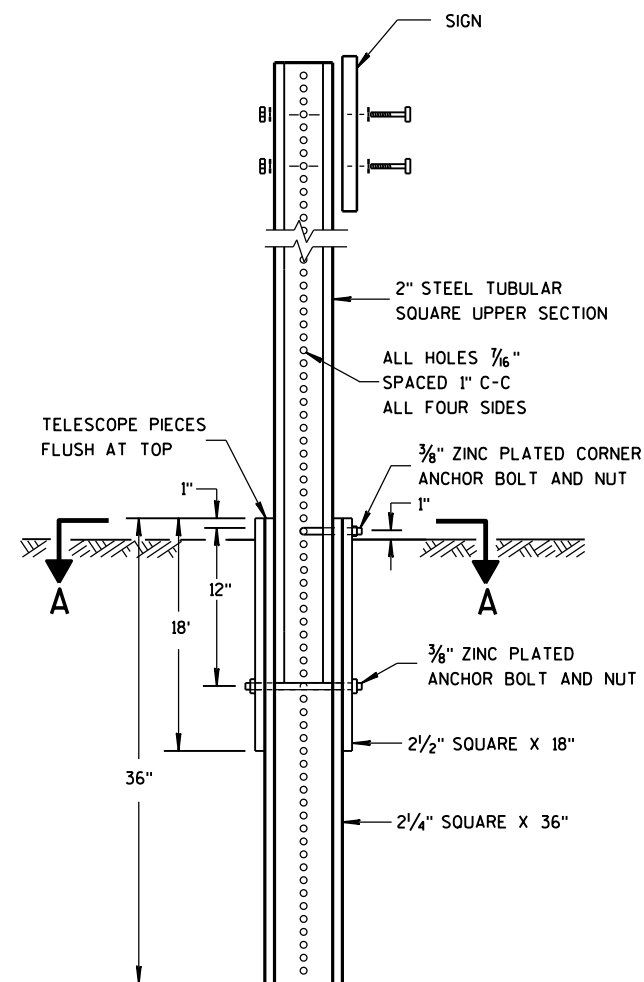
*FOR SHORT DURATION SHOULDER WORK OF LESS THAN ONE HOUR, THE W21-5a SIGN MAY BE OMITTED.



TRAFFIC CONTROL
SHOULDER CLOSURE ON DIVIDED
ROADWAY, SPEEDS GREATER
THAN 40 MPH

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
June 2016 /S/ Peter Amakobe Atepe
DATE STATEWIDE WORK ZONE TRAFFIC
FHWA SAFETY ENGINEER

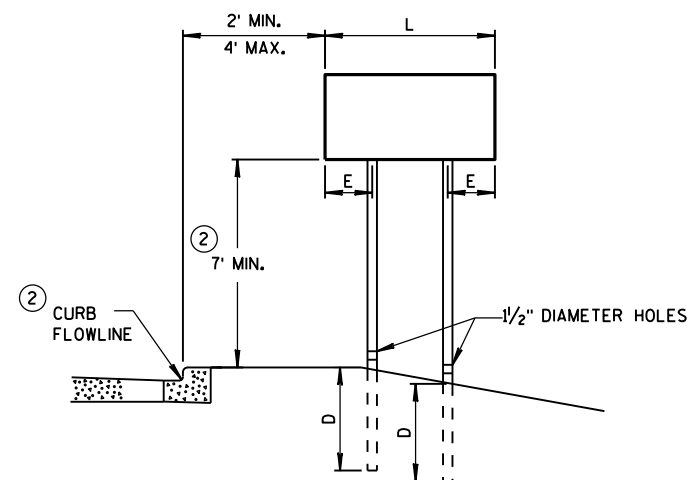
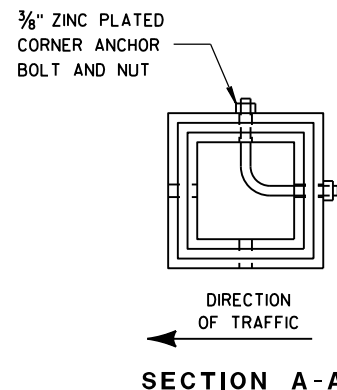


DETAIL OF TUBULAR STEEL SIGN POST

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.

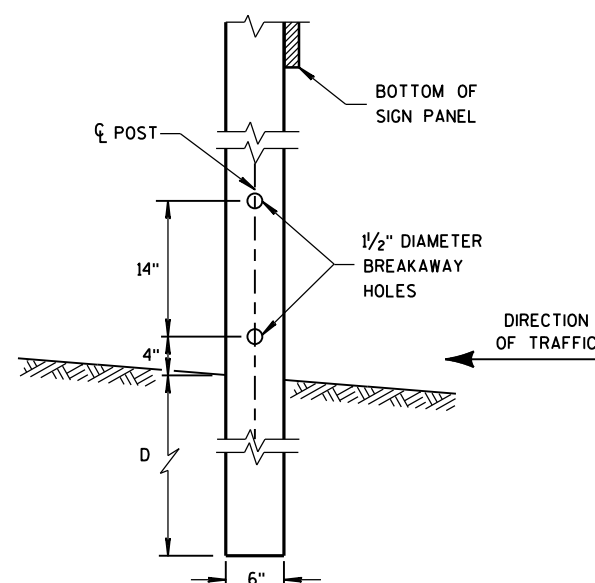


URBAN AREA

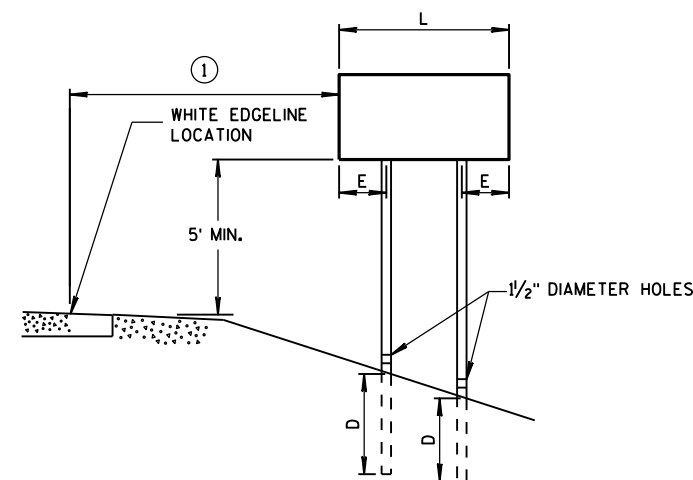
POST MOUNTING DETAIL FOR TEMPORARY TRAFFIC CONTROL FIXED MESSAGE SIGNS

WOOD POST EMBEDMENT DEPTH

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



4"x6" WOOD POST MODIFICATION



RURAL AREA

4" X 6" WOOD POST

POST SPACING REQUIREMENTS		NUMBER OF WOOD POSTS REQUIRED
L	E	
48" OR LESS AND LESS THAN 20 SQ. FT.	-	1
LESS THAN 60"	12"	2
60" TO 120"	L/5	2
GREATER THAN 120" LESS THAN 168"	12"	3
168" AND GREATER	12"	4

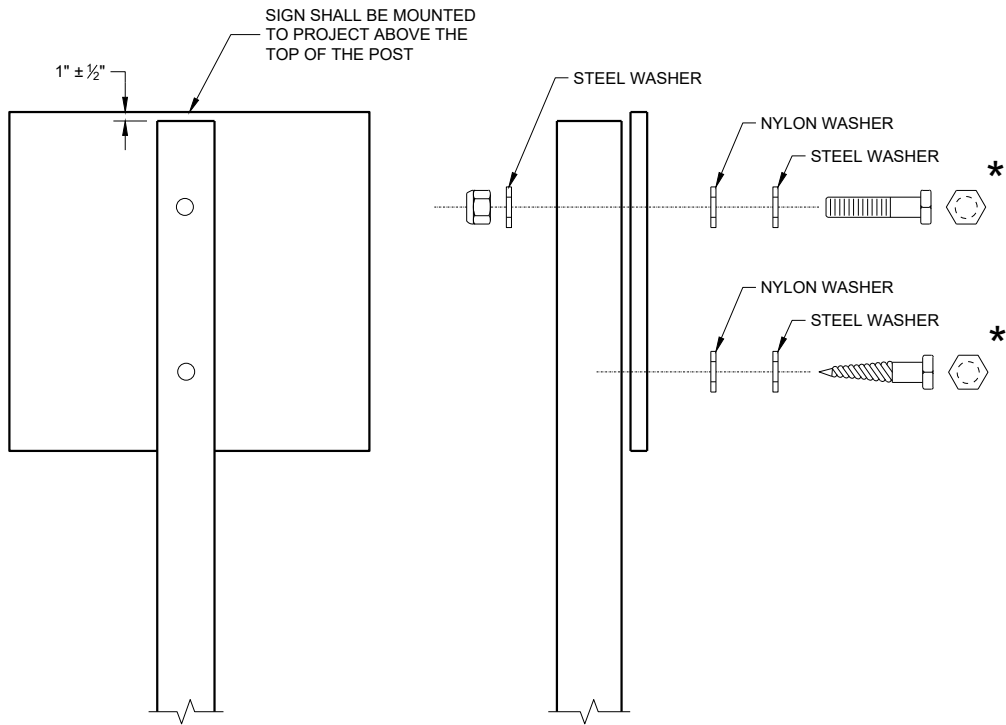
SEE NOTE ③

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.

TEMPORARY TRAFFIC CONTROL SIGN MOUNTING

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION



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 POST (4" x 6")
LAG SCREWS - ¾" x 3"
MACHINE BOLTS - ⅝" x 6 ½" OR 7" LENGTH W/NUTS

SQUARE STEEL POST (2" x 2")
MACHINE BOLTS - ¾" x 3 ¼" LENGTH W/NUTS
RIVETS - ⅝" (6605-9-6) BULB-TITE, TRI-FOLD, ALUMINUM
BODY/MANDREL O.D. FLANGE 0.720 - 0.765 INCH,
GRIP RANGE 0.042 - 0.375 INCH

WASHERS (ALL POSTS) -
1 ¼" O.D. x ⅜" I.D. x ⅛" STEEL
1 ¼" O.D. x ⅜" I.D. x 0.080 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. 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 /S/ Andrew Heidtke
DATE WORK ZONE ENGINEER


FHWA


LEGEND


- V1

WORK VEHICLE
- V2

SHADOW VEHICLE
- 

TRUCK MOUNTED ATTENUATOR (TMA)
- 

FLASHING ARROW PANEL (CAUTION)
- 

WORK AREA
- 

DIRECTION OF TRAFFIC

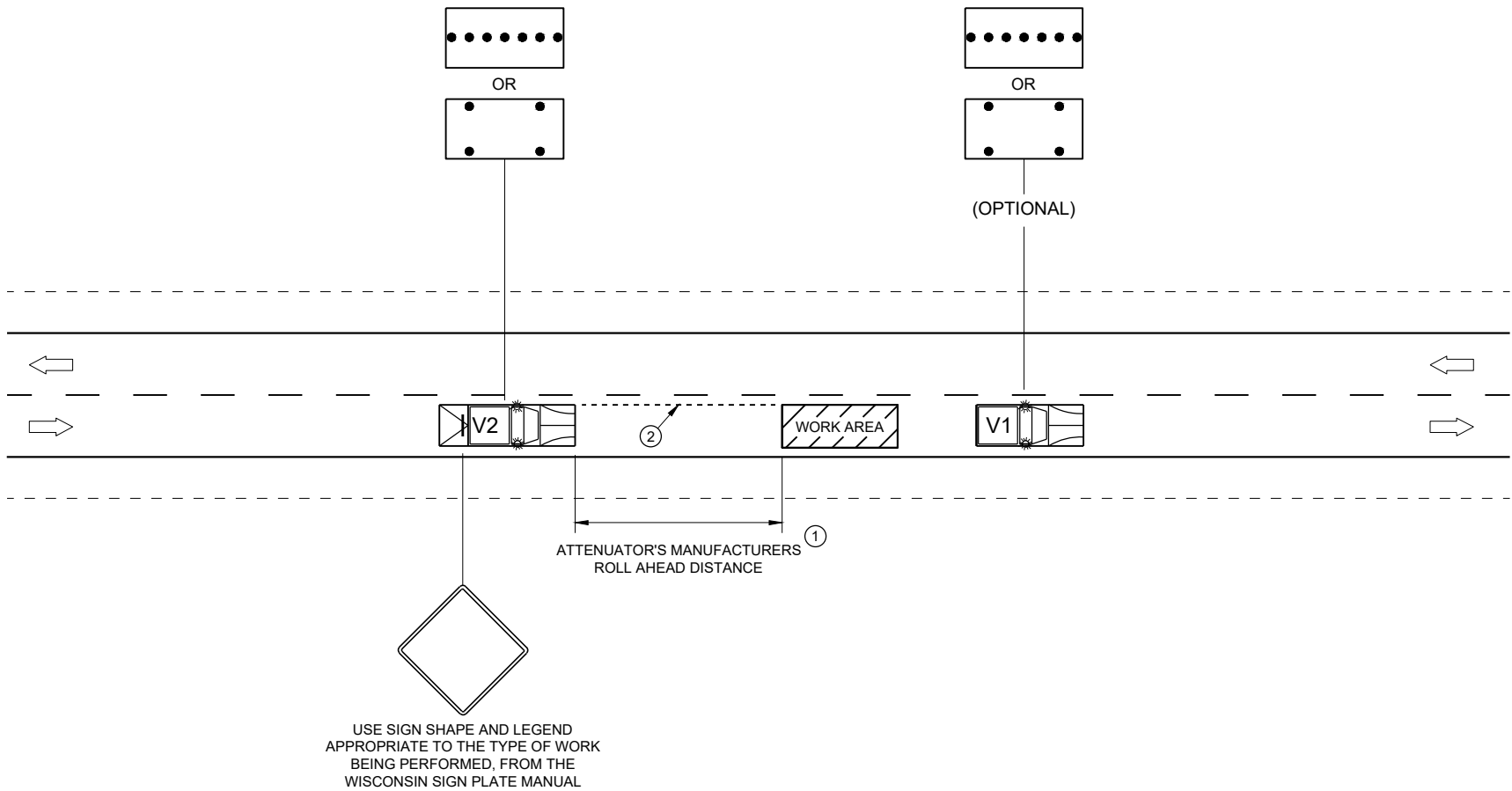
POSTED SPEED PRIOR TO WORK STARTING (MPH)	DECISION SIGHT DISTANCE (D)
0 - 25	550'
30	550'
35	700'
40	700'
45	900'
50	900'
55	1200'

GENERAL NOTES

- ALL SIGNS ARE 48"x48" UNLESS OTHERWISE NOTED.
- MOBILE IS WORK THAT MOVES CONTINUOUSLY OR MOVES AT LEAST THE DECISION SIGHT DISTANCE EVERY 15 MINUTES.
- ALL VEHICLES SHALL BE EQUIPPED WITH TWO 360 DEGREE HIGH INTENSITY YELLOW FLASHING LIGHTS OR STROBE LIGHTS AND OPERATED WITH HEADLIGHTS TURNED ON.
- ALL ARROW PANELS SHALL BE REAR FACING, TYPE "B" OR "C", AND DISPLAYING THE FLASHING CAUTION MODE. SIGNS PLACED ON VEHICLES MUST NOT OBSCURE THE ARROW PANEL.
- USE AN ATTENUATOR ON THE REARMOST VEHICLE THAT BLOCKS ALL OR PART OF THE TRAFFIC LANE.
- ①

DISTANCE BETWEEN VEHICLES MAY INCREASE FROM THE ATTENUATOR'S ROLL AHEAD BASED ON TERRAIN, SIGHT DISTANCE, AND OTHER FACTORS. WHENEVER ADEQUATE STOPPING SIGHT DISTANCE EXISTS TO THE REAR, SHADOW VEHICLES SHOULD MAINTAIN THE MINIMUM DISTANCE FROM THE WORK VEHICLE AND PROCEED AT THE SAME SPEED AS THE WORK VEHICLE. SHADOW VEHICLES SHOULD SLOW DOWN IN ADVANCE OF VERTICAL OR HORIZONTAL CURVES THAT RESTRICT SIGHT DISTANCE.
- ②

ALIGN LEFT SIDE OF SHADOW VEHICLE WITH EDGE OF WORK AREA.



TRAFFIC CONTROL,
MOBILE OPERATIONS ON
AN UNDIVIDED ROADWAY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
February 2021
DATE

/S/ Andrew Heidtke

STATEWIDE WORK ZONE TRAFFIC
SAFETY ENGINEER

FHWA

Notes



Wisconsin Department of Transportation

Dedicated people creating transportation solutions
through innovation and exceptional service.

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