

WITH:

PROJECT ID: 1000-77-25

COUNTY: SE REGION WIDE

TOTAL SHEETS = 64



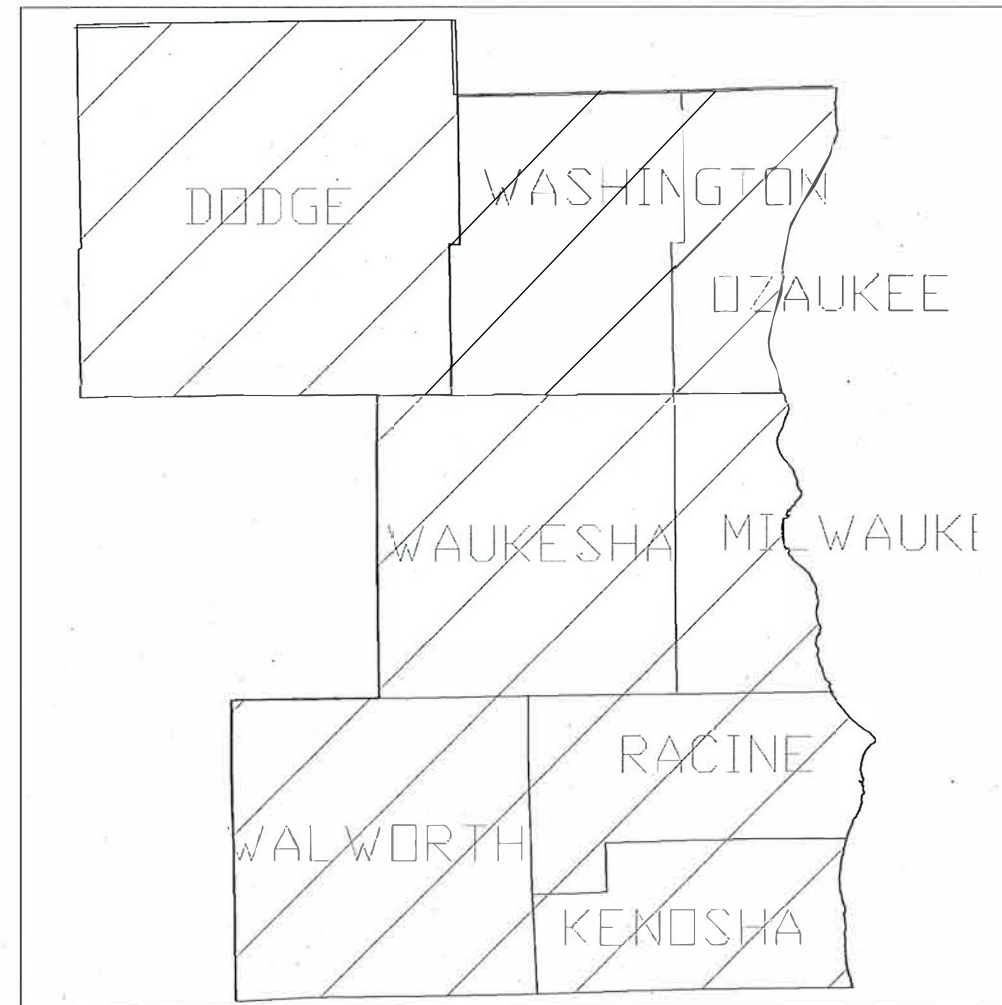
A.A.D.T.
A.A.D.T.
D.H.V.
D.D.
T.
DESIGN SPEED
ESALS

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

 ROCK
 LABEL
 90°
 90°
 
 E
 FO
 G
 SAN
 SS
 T
 W
 X
 

VAR HWY SOUTHEAST REGION

1000-77-25



LAYOUT
SCALE 0

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

STATE PROJECT	FEDERAL PROJECT	
	PROJECT	CONTRACT
1000-77-25	WISC 2025184	1

Surveyor	_____
Designer	JEANNIE SILVER
Project Manager	KAREN MARTENS
Regional Examiner	_____
Regional Supervisor	DONALD BERGHAMMER

APPROVED FOR THE DEPARTMENT
DATE: 10-2-2024 *[Signature]*
Signature

E

GENERAL NOTES

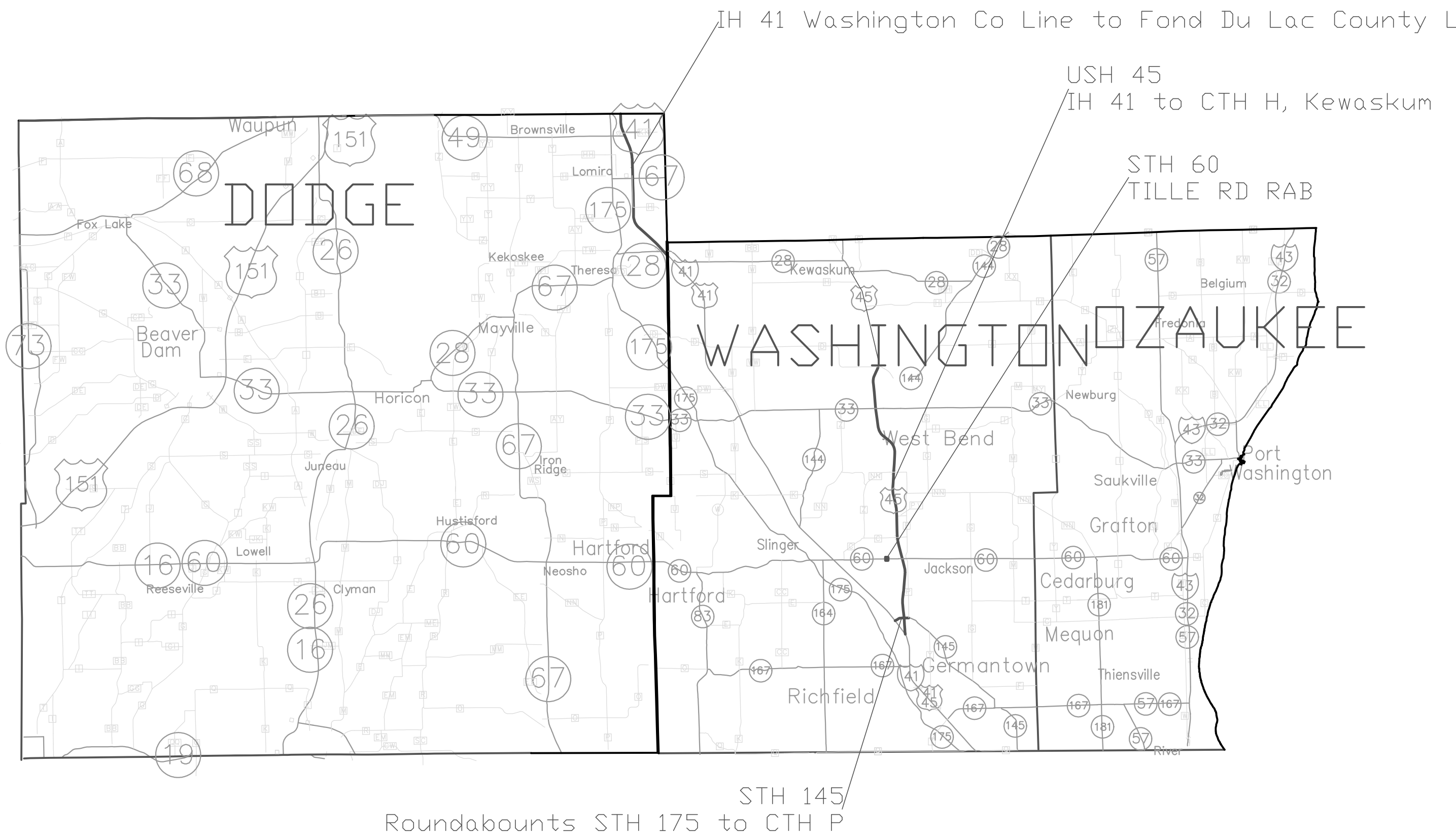
THERE ARE UTILITY FACILITIES WITHIN THE PROJECT AREA THAT ARE NOT SHOWN ON THE PLANS. COORDINATE CONSTRUCTION ACTIVITIES WITH A CALL TO DIGGERS HOTLINE AND/OR A DIRECT CALL TO THE UTILITIES THAT HAVE FACILITIES IN THE AREA. NOT ALL UTILITIES ARE MEMBERS OF DIGGERS HOTLINE.



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

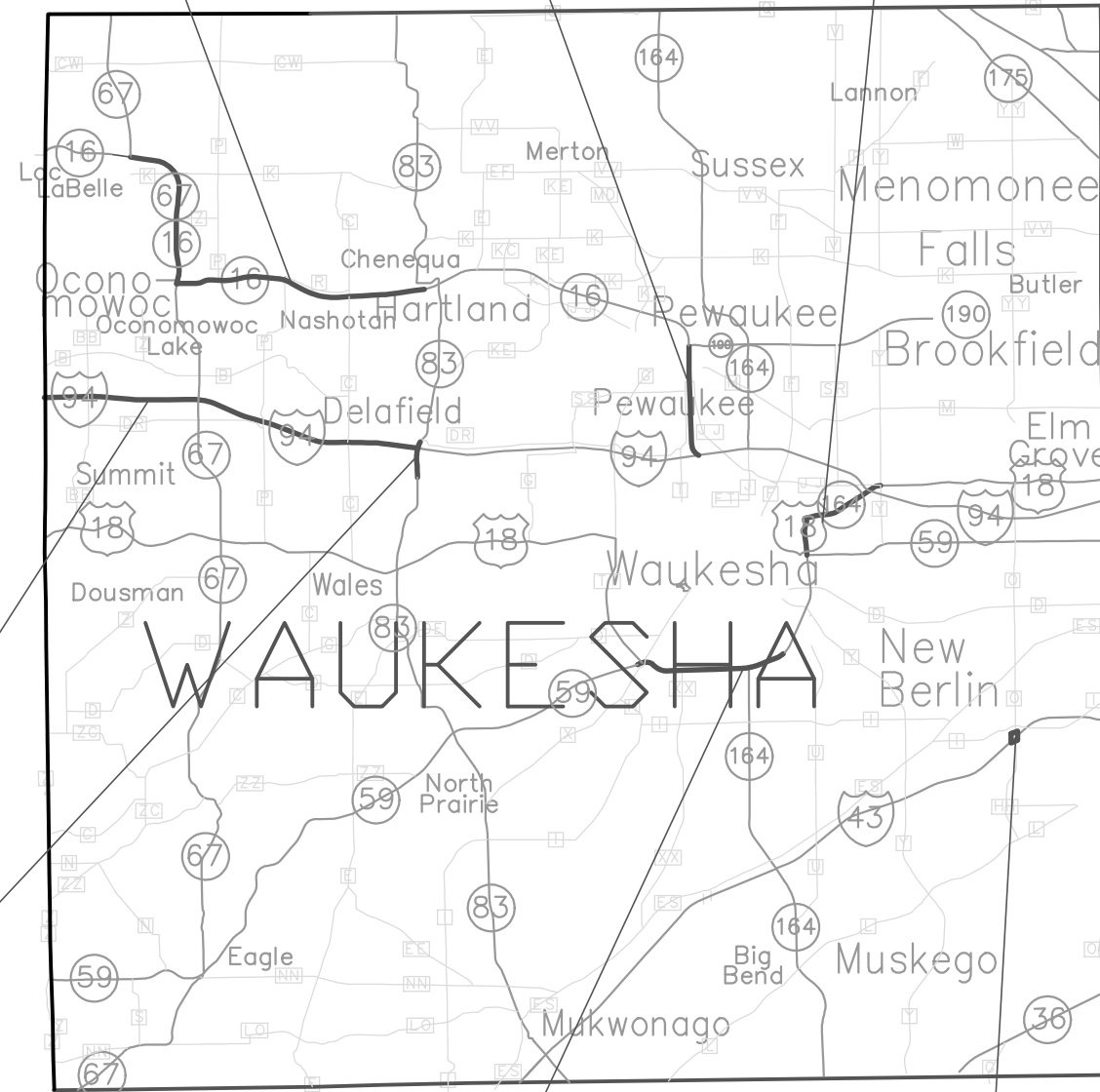
KAREN MARTENS
SE SIGNING AND MARKING ENGINEER
262-548-6892
KAREN.MARTENS@DOT.WI.GOV

Jeannie Silver, P.E.
State Marking Engineer
Wisconsin DOT Bureau of Traffic Operations
3609 Pierstorff St. Madison, WI 53704
(608) 246-5408
(608) 630-0119
jeannie.silver@dot.wi.gov



USH 18
—
STH 59 to IH 94

STH 67 North Jct to West of STH 16
STH 83\

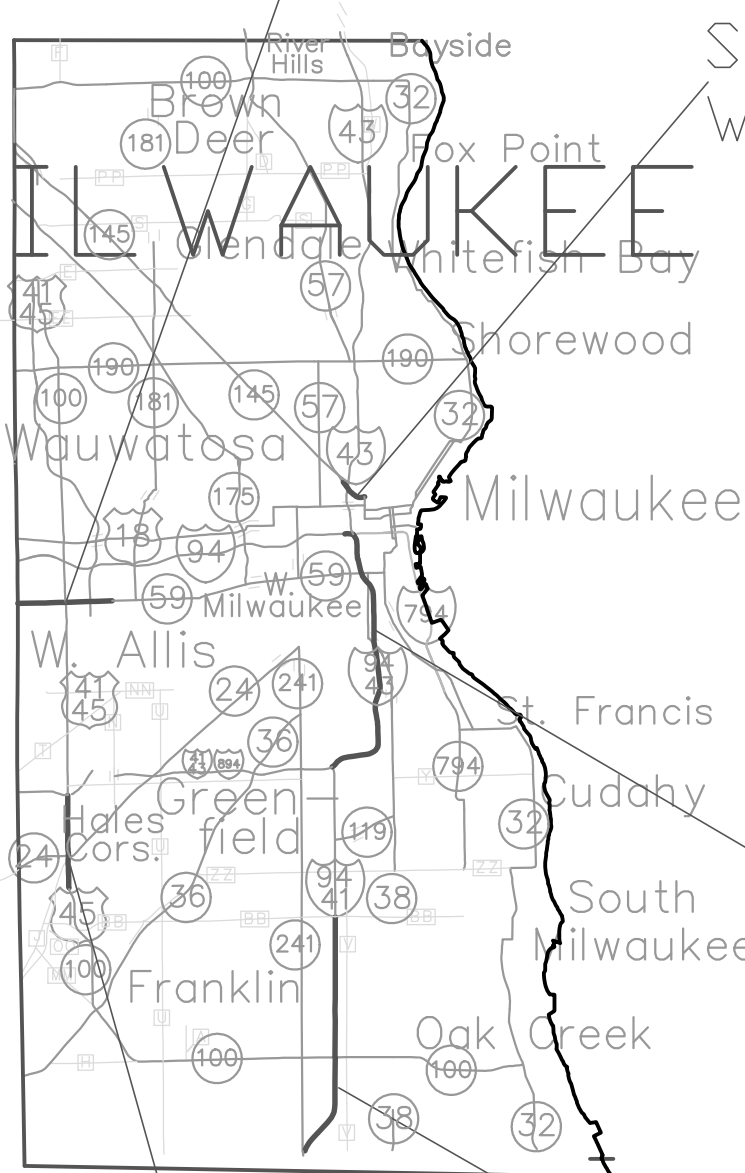


Jefferson Co Line to STH 83 IH 94,

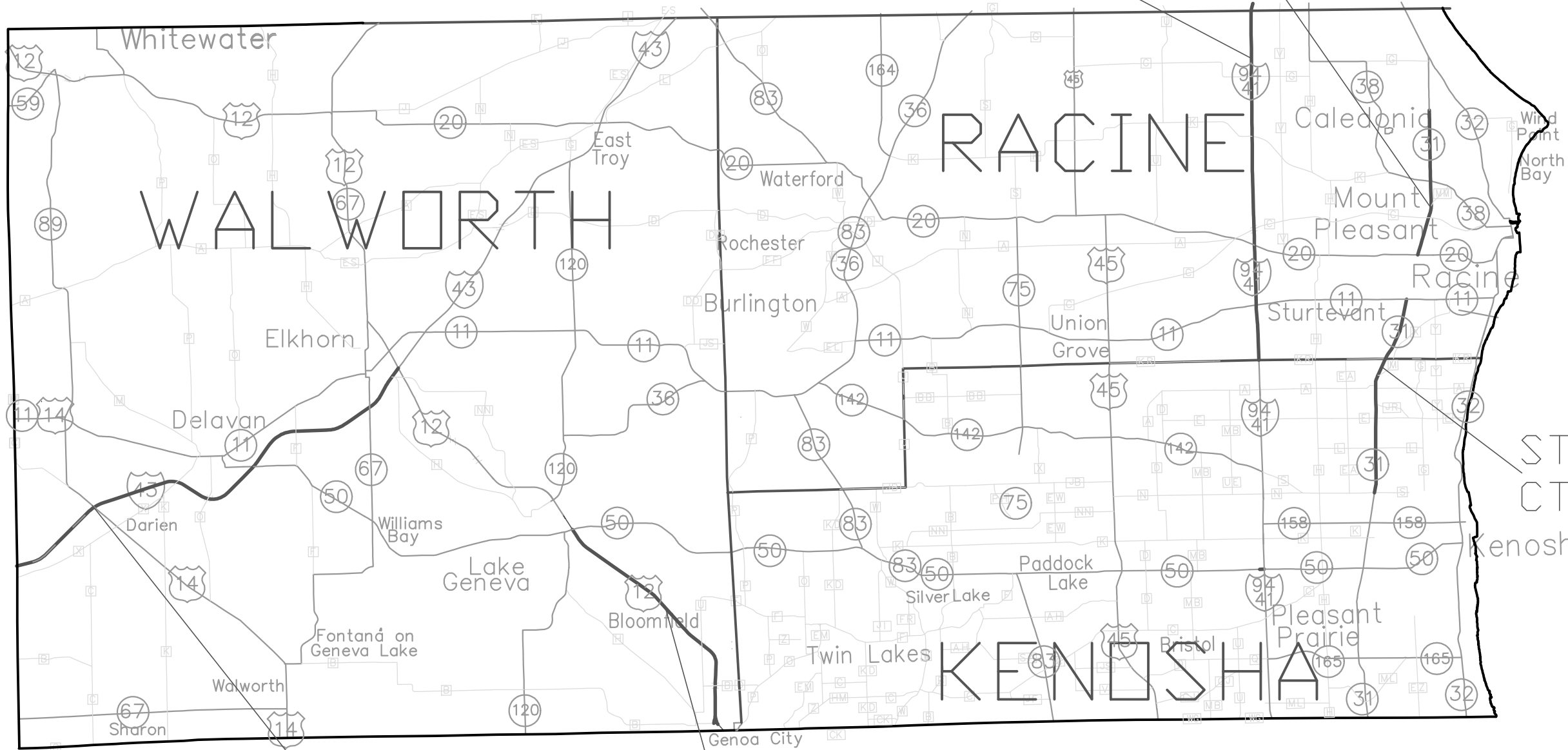
Meadows Blvd to STH 83, Golf Rd

CTH X to Sunset DR USH 18/

IH 43
Moorland Rd RAB



STH 31
STH 20 to 4 Mile Rd
IH 41 Continued
Kenosha Co Line to CTH BB



STH 31
CTH S to STH 11
Kenosha

USH 12
STH 50 to State Line
IH 43
Rock Co Line to USH 12

Estimate Of Quantities

1000-77-25

Line	Item	Item Description	Unit	Total	Qty
0002	619.1000	Mobilization	EACH	1.000	1.000
0004	646.1555	Marking Line Grooved Contrast Permanent Tape 4-Inch	LF	50.000	50.000
0006	646.2020	Marking Line Epoxy 6-Inch	LF	3,100,778.000	3,100,778.000
0008	646.2040	Marking Line Grooved Wet Ref Epoxy 6-Inch	LF	12,125.000	12,125.000
0010	646.3555	Marking Line Grooved Contrast Permanent Tape 8-Inch	LF	50.000	50.000
0012	646.4020	Marking Line Epoxy 10-Inch	LF	167,469.000	167,469.000
0014	646.4040	Marking Line Grooved Wet Ref Epoxy 10-Inch	LF	6,050.000	6,050.000
0016	646.5020	Marking Arrow Epoxy	EACH	757.000	757.000
0018	646.5120	Marking Word Epoxy	EACH	284.000	284.000
0020	646.5420	Marking Aerial Enforcement Bar Epoxy	EACH	60.000	60.000
0022	646.6120	Marking Stop Line Epoxy 18-Inch	LF	15,437.000	15,437.000
0024	646.6220	Marking Yield Line Epoxy 18-Inch	EACH	139.000	139.000
0026	646.6320	Marking Dotted Extension Epoxy 18-Inch	LF	582.000	582.000
0028	646.7120	Marking Diagonal Epoxy 12-Inch	LF	1,301.000	1,301.000
0030	646.7420	Marking Crosswalk Epoxy Transverse Line 6-Inch	LF	22,278.000	22,278.000
0032	646.7520	Marking Crosswalk Epoxy Block Style 24-Inch	LF	3,846.000	3,846.000
0034	SPV.0060	Special 01. Traffic Control	EACH	1.000	1.000
0036	SPV.0090	Special 01. Marking Line Black Epoxy 6-Inch	LF	76,950.000	76,950.000

SUMMARY - LONGLINE MARKINGS				646.2020 Line Epoxy 6-In						646.2040 Wet Reflective Epoxy 6-In	646.4020 Line Epoxy 10-In					646.4040 Wet Reflective Epoxy 10-In	SPV.0090.01 Marking Line Black Epoxy 6-Inch Lane Line
ROUTE	MILES	COUNTY	SEGMENT	Centerline LF	Yellow Edgeline Left LF	Mini Dash LF	Edgeline Right LF	White Lane Line LF	Mini Dash LF	White Lane Line LF	Mainline LF	Ramp LF	Gore LF	Left Lane LF	Right Lane LF	White Gore LF	Black LF
USH 12	9.45	Walworth	STH 50 to Illinois State Line	750	109065		115860			3500	7585	2798					
STH 16	3.3	Waukesha	STH 190/Capitol Dr to IH 94		41230		50485	120	24	8625		1128				6050	
STH 16	9	Waukesha	STH 67 N to 5800' West of STH 83		136167		139293	14816			15650	845		4005	2065		
USH 18	2.6	Waukesha	STH 59 to IH 94		29220		29220	14550	524		191			12541	10535		14550
USH 18	3.5	Waukesha	CTH X to Sunset Dr		40520		40520	10150	250		567			9169	5355		10150
STH 31	6.9	Kenosha/Racine	CTH S to STH 11		69700		69700	33000	114		135			11605	6815		32950
STH 31	4.7	Kenosha	STH 20 to 4 Mile Rd	21258	32000		32000	17100	312		213			7848	1970		17000
IH 41	6	Dodge	Washinton Co Line to Fond Du Lac Co Line		95846		96238	14850				1121					
IH 41/94	17.8	Racine	Kenosha Co Line to CTH BB/Rawson Ave		228115		263397	3874	601		1643	13996					
IH 43		Milwaukee	Moorland Rd South RAB					748					240		510		
IH 43	15..57	Walworth	Rock Co Line to USH 12		183729		197505					1670					
IH 43/94	3.97	Milwaukee	National Ave to Mitchell Interchange		66738		70788						1255				
USH 45	17.2	Washington	IH 41 to CTH H, Kewaskum		203340		226996		56			4198	485	1385	860		
USH 45/ STH 100	1.8	Milwaukee	CTH ZZ/ College Ave to IH 43		17700	170	17700	9225						6054			
STH 59	1.7	Milwaukee	Milwaukee/Waukesha Co Line to 97th St		18590		18590	4650	262					8325	2659		
STH 60		Washington	Tilley Lake Roundabout					230					1185				
STH 83	1.06	Waukesha	Meadows Blvd to Golf Rd	3000	9400		9400	2300	184					3200	1693		2300
IH 94	8.9	Waukesha	Jefferson Co Line to STH 83		106469		123389	1275	480			5249					
STH 145	0.7	Milwaukee	Walnut to 6th St		7000		7000	3500	150					2340	2351		
STH 145	1.6	Washington	STH 175 to CTH P (Including Roundabouts)	9980	9930		14895	4540					390	2360	3280		
Total				34988	1404759	170	1522976	134928	2957	12125	25984	31005	3555	68832	38093	6050	76950

SUMMARY- SPECIAL MARKINGS			646.5020 Arrow Epoxy								646.5120 Word Epoxy	646.6120 Stop Line Epoxy 18-Inch		646.6320 Dotted Extension Epoxy 18-Inch	646.7120 Diagonal Epoxy 12-In		646.7420 6-IN Crosswalk		646.7520 Crosswalk Epoxy Block Style 24-IN		646.6220 Yield Line Epoxy 18-IN		646.5420 Aerial Enforcement Bar Epoxy
ROUTE	COUNTY	SEGMENT	White								White	White		White	Yellow	White	White		White		White		White
			Type 1 EACH	Type 2 EACH	Type 2R EACH	Type 3 EACH	Type 3R EACH	Type 4 EACH	Type 5 EACH	Type 7 EACH	Only EACH	Mainline LF	Interchanging Roadway LF	2' Line, 2' Gap LF	Median LF	Gore LF	Mainline LF	Interchanging Roadway LF	Mainline LF	Interchanging Roadway LF	Mainline EACH	Interchanging Roadway EACH	Mainline EACH
USH 12	Walworth	STH 50 to Illinois State Line		14				2	2		6	173	133										
STH 16	Waukesha	STH 190/Capitol Dr to IH 94		4						1	3	109	131					102					
STH 16	Waukesha	STH 67 N to 5800' West of STH 83		16		4					7	770	229				74						
USH 18	Waukesha	STH 59 to IH 94		42							21	1065	603			616	3180	2366					
USH 18	Waukesha	CTH X to Sunset Dr		22							11	592	465				890	720					
STH 31	Kenosha/Racine	CTH S to STH 11		51							27	742	396			140	1234	1030			15		
STH 31	Kenosha	STH 20 to 4 Mile Rd		107							35	566	955				1118	988			25	27	
IH 41	Dodge	Washinton Co Line to Fond Du Lac Co Line										235											
IH 41/94	Racine	Kenosha Co Line to CTH BB/Rawson Ave	6	89		27		4	24		41	938	1277			120	982	504			14		
IH 43	Milwaukee	Moorland Rd South RAB	7	2	2	3	2				3			70									
IH 43	Walworth	Rock Co Line to USH 12		3		2					1	237	169				274	130					
IH 43/94	Milwaukee	National Ave to Mitchell Interchange		10					2		7	204	141				486	630					
USH 45	Washington	IH 41 to CTH H, Kewaskum		16		4	2				7	277	356	156			868	160			48		
USH 45/ STH 100	Milwaukee	CTH ZZ/ College Ave to IH 43		55		1			6		28	763	457						1896	1260			
STH 59	Milwaukee	Milwaukee/Waukesha Co Line to 97th St	6	33		2					22	705	418				2159	1798			10		
STH 60	Washington	Tilley Lake Roundabout		4		4	4							82		20			160				
STH 83	Waukesha	Meadows Blvd to Golf Rd		32					2		17	461	250		165								
IH 94	Waukesha	Jefferson Co Line to STH 83	8	31	4	16	2	2	8		24	301	216	166			386	248	370				12
STH 145	Milwaukee	Walnut to 6th St	2	9							7	499	449				736	1215					
STH 145	Washington	STH 175 to CTH P (Including Roundabouts)	11	26		12	7				17	61	94	108	240				160				
Total			40	566	6	75	17	8	44	1	284	8698	6739	582	405	896	12387	9891	2586	1260	112	27	12

UNDISTRIBUTED QUANTITIES

619.1000 Mobilization	1
SPV.0060.01 Traffic Control	1
646.1555 Marking Line Grooved Contrast Tape 4-IN	50
646.3555 Marking Line Grooved Contrast Tape 8-IN	50
646.5420 Marking Line Aerial Enforcement Bars	48

WALWORTH COUNTY USH 12 STH 50 to Illinois State Line		646.2020 Line Epoxy 6-In			646.2040.S Retrace Wet Reflective Epoxy 6-In	646.4020 Line Epoxy 10-In		646.5020 Arrow Epoxy			646.5120 Word Epoxy	646.6120 Stop Line Epoxy 18-Inch		Comments	
ROUTE	Nearest Crossroad	Yellow		White	White	White		White			White	White			
		Centerline	Edgeline Left	Edgeline Right	Lane Line	Mainline	Ramp	Type 2	Type 4	Type 5	Only	Mainline	Interchanging Roadway		
		LF	LF	LF	LF	LF	LF	EACH	EACH	EACH	EACH	LF	LF		
USH 12 EB	West of STH 50 to East of STH 50		7025	7025	1750									Do Not retrace first set of words	
	STH 50 Off Ramp		1956	2754		720	410	4			2	43	85		
	STH 50 On Ramp		925	2056		1190	230								
	East of STH 50 to Illinios State Line		43560	43560											
	Pell Lake Dr Off Ramp		634	1373		480	84				19				
	Pell Lake Dr On Ramp		528	1426		935									
USH 12 WB	CTH H					735		6			3	42	48		
	CTH H to 12 WB					210		2			1				
	South Rd					170		2		2					
	Illinios State Line to East of STH 50		43560	43560											
USH 12 WB	CTH H WB On		920	1220		590	910							12 38	
	Pell Lake Dr Off Ramp		528	1109		485	64								
	Pell Lake Dr On Ramp	750	581	1690		1060									
	East of STH 50 to West of STH 50		7025	7025	1750									19	
	STH 50 Off Ramp		898	792		245	850		2						
	STH 50 On Ramp		925	2270		765	250								
Total		750	109065	115860	3500	7585	2798	14	2	2	6	173	133		

PAINT OVER TAPE LANE LINES FROM STH 50 TO ILLINIOS STATE LINE

WAUKESHA COUNTY STH 16 STH 190/CAPITOL DR TO IH 94		646.2020 Line Epoxy 6-In				646.2040.S Retrace Wet Reflective Epoxy 6-In	646.4020 Line Epoxy 10-In	646.4040 Line Grooved Wet Reflective Epoxy 10-In	646.5020 Arrow Epoxy	646.5120 Word Epoxy	646.6120 Stop Line Epoxy 18-Inch	646.7420 6-IN Crosswalk
ROUTE	Nearest Crossroad	Yellow	White			White	White	White	White	White	White	White
		Edgeline	Edgeline	Lane	Mini	Lane Line	Ramp	Gore	Type 2	Type 7	Only	Interchanging
		Left	Right	Line	Dash	LF	LF	LF	EACH	EACH	EACH	LF
STH 16 EB	STH 190/Capitol Dr to IH 94	17250	17250			4300						
	Capitol Dr On Ramp	1060	4225					660				
	Main St/CTH JJ Off Ramp	1320	4225				178	1300	4	1	3	69
	Main St/CTH JJ On Ramp	1165	2485					1525				48
STH 16 WB	IH 94 Off Ramp Gore to STH 190/Capitol Dr	17250	17250			4325						
	Main St/CTH JJ Off Ramp	900	1850		24		60	670			40	83
	Main St/CTH JJ On Ramp	880	1165	120				565				102
	Capitol Drive On Ramp	1405	2035				890	1330				
Total		41230	50485	120	24	8625	1128	6050	4	1	3	109

DO NOT PAINT CAPITOL DRIVE OFF RAMPS.

WAUKESHA COUNTY
STH 16
North STH 67 JCT TO 5800' West of STH 83

ROUTE	Nearest Crossroad	646.2020 Line Epoxy 6-In			646.4020 Line Epoxy 10-In				646.5020 Arrow Epoxy		646.5120 Word Epoxy	646.6120 Stop Line Epoxy 18-Inch		646.7420 6-IN Crosswalk
		Yellow	White		White		Left Lane	Right Lane	White		White	White		White
		Edgeline Left	Edgeline Right	Lane Line	Mainline	Ramp			Type 2	Type 3	Only	Mainline	Interchanging Roadway	Mainline
		LF	LF	LF	LF	LF	LF	LF	EACH	EACH	EACH	LF	LF	LF
STH 16 EB Part 1	STH 67 N to STH 67 S	21760	21760											
	STH 67 North Off Ramp	1003	1531									32		
	STH 67 North On Ramp	1109	2429											
	CTH Z/Lake Dr						765	110				53	43	
	Lisbon Rd						745	130				57	41	
	STH 67 South Signal			66			115	325	4	2	2	63		
STH 16 EB Part 2	STH 67 S to 5800'West of STH 83	29500	29500	7375										
	STH 67 Southbound On Ramp	1720	1410									60	59	
	STH 67 North Ramp Signal						205	380	4		1	48		
	CTH P/Brown St Off Ramp	950	1478		645							30		
	CTH P/Brown St On Ramp	950	2534		2185									
	CTH P/Sawyer Rd Off Ramp	1003	2006		640							37		
	CTH P/Sawyer Rd On Ramp	1003	2376		1475									
	CTH C Off Ramp	1267	2429		1120	155						34		
	CTH C On Ramp	845	2218		1905									74
STH 16 WB Part 1	5800' West of STH 83 to STH 67 S	29500	29500	7375										
	CTH C Off Ramp	898	2165		1015	155						29		
	CTH C On Ramp	1162	3010		2100									
	CTH P/Sawyer Rd Off Ramp	1056	2006		465	155						38		
	CTH P/Sawyer Rd On Ramp	1056	2534		1860									
	CTH P/Brown St Off Ramp	898	1478		955	380			2		1	46		
	CTH P/Brown St On Ramp	950	2270		1285									
	STH 67NB Off Ramp	15665	1045				205	385	3	2	2	45		
	STH 67 North Ramp Signal						200	110	2		1			
	STH 67 South Signal						160	365	1			37		
STH 16 WB Part 2	STH 67 S to STH 67 N	21760	21760											
	Lisbon Rd						755	135				57	40	
	CTH Z/Lake Dr						855	125				57	46	
	STH 67 North Off Ramp	1056	1584											
	STH 67 North On Ramp	1056	2270									47		
Total		136167	139293	14816	15650	845	4005	2065	16	4	7	770	229	74

DO NOT PAINT OVER TAPE LANE LINES

WAUKESHA COUNTY
USH 18
STH 59 TO IH 94

ROUTE	Nearest Crossroad	646.2020 Line Epoxy 6-In				646.4020 Line Epoxy 10-In			SPV.0090.01 Marking Line Black Epoxy 6-Inch Lane Line	646.5020 Arrow Epoxy	646.5120 Word Epoxy	646.6120 Stop Line Epoxy 18-Inch		646.7120 Diagonal Epoxy 12-In	646.7420 6-IN Crosswalk	
		Yellow Edgeline Left LF	White			Mini Dashes LF	White Left Lane LF	Right Lane LF	Black LF	White Type 2 EACH	White Only EACH	Mainline LF	Interchanging Roadway LF	White Gore LF	Mainline LF	Interchanging Roadway LF
			Edgeline Right LF	Lane Line LF	Mini Dash LF											
USH 18 EB	STH 59/ARCADIAN AVE TO IH 94 Arcadian Ave/STH 59 Coral Dr	14610	14610	7250					7250			93 48	64 24	20		68
	E Main St Wilde Subaru Dealer Tosa Trail				46		850 125 130	450 130		8	4	95	48	214	308	242
	Wolf Rd/Moreland Blvd/Les Paul Pkwy Avalon Dr Main St				44		730 875 650	220		6 2	3 1	64		58	198	
	Stardust Dr Springdale Rd Longview Dr					21	415 1040 195	795 185		4 2	2 1	53 72	29 28	75	282 266	118 124
	Parklawn Ct Swenson Dr/Kossow Rd IH 94 EB Gore				32	26	605 770	790 1105		1	1	60 60	32 38		236 272	166 186
USH 18 WB	IH 94 to STH 59/Arcadian Ave Bluemound Rd	14610	14610	7300					7300			38				
	IH 94 WB Gore IH 94 EB Gore Kossow Rd/Swenson Dr					78	855	900 825 820				49	40		274	200
	Parklawn Ct Longview Dr/S Springdale Rd				46	66	570 210 630	490 570		2 2	1 1	64 66	31 42		252	100 195
	Stardust Dr Ramona Rd Avalon Dr				34		1015 277 325	810		6 2	3 1	62	44		278	143
	Gateway Dr Wolf Rd/Moreland Blvd/Les Paul Pkwy Tosa Trail				28		380 329 70	855		2 4	1 1	62	80	42	270	380
	Wilde Subaru Dealer E Main St Coral Dr Arcadian Ave/STH 59				46		400 735 360	100 485 725		1	1	71 48 60	56 47	207	276 268	222 222
	Total	29220	29220	14550	524	191	12541	10535	14550	42	21	1065	603	616	3180	2366

WAUKESHA COUNTY USH 18 CTH X to Sunset Dr		646.2020 Line Epoxy 6-In				646.4020 Line Epoxy 10-In			SPV.0090.01 Marking Line Black Epoxy 6-Inch Lane Line	646.5020 Arrow Epoxy	646.5120 Word Epoxy	646.6120 Stop Line Epoxy 18-Inch		646.7420 6-IN Crosswalk	
ROUTE	Nearest Crossroad	Yellow Edgeline Left LF	White Edgeline Right LF	White Lane Line LF	Mini Dash LF	Mini Dashes LF	White Left Lane LF	Right Lane LF	Black LF	White Type 2 EACH	White Only EACH	Mainline LF	Interchanging Roadway LF	Mainline LF	Interchanging Roadway LF
USH 18 EB	CTH X TO SUNSET DR CTH X River Valley Rd Fox River Pkwy CTH XX/Oakdale Dr Center Rd	20260	20260	5075		159	257 395 95 560 550	635 405	5075	4	2	61 50 50	42 24 60	228	180
	West Ave Grand Ave East Ave/STH 164				98	27 114	715 765	215 75 930			2	47 51	36 48	190	132
	Big Bend Rd Sunset Dr				24	99	395	285 190		2	1	38	39		40
USH 18 WB	SUNSET DR TO CTH X Sunset Dr Catholic Memorial Sullivan Campus Tenny Ave	20260	20260	5075			345 `	375	5075			55	40	260	
	Big Bend Rd East Ave/STH 164 Grand Ave				94	84	175 1507 585	875		4	2	36	53		
	West Ave Center Rd Oakdale Rd				34		535 675 545	235 205 200				48 47 55	51 36		212
	Fox River Pkwy River Valley Rd CTH X					84	125 335 610	730		2 6	1 3	54	36	212	156
Total		40520	40520	10150	250	567	9169	5355	10150	22	11	592	465	890	720

RACINE AND KENOSHA COUNTIES STH 31 CTH S TO STH 11		646.2020 Line Epoxy 6-In				646.4020 Line Epoxy 10-In			SPV.0090.01 Marking Line Black Epoxy 6-Inch Lane Line	646.5020 Arrow Epoxy White	646.5120 Word Epoxy White	646.6120 Stop Line Epoxy 18-Inch		646.7120 Diagonal Epoxy 12-In	646.7420 6-IN Crosswalk		646.6220 Yield Line Epoxy 18-IN																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																	
ROUTE	Nearest Crossroad	Yellow	White		Mini Dash	White		Black	Type 2	Only	Mainline	White		Gore	White		Mainline																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																	
		Edgeline Left	Edgeline Right	Lane Line		Left Lane	Right Lane					Interchanging Roadway	Interchanging Roadway																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																					
		LF	LF	LF		LF	LF					LF	LF		LF	LF		LF	LF	LF	LF	LF	LF	LF	LF	LF	LF	LF	LF	LF	LF	LF	LF	LF	LF	LF	LF	LF	LF	LF	LF	LF	LF	LF	LF	LF	LF	LF	LF	LF	LF	LF	LF	LF	LF	LF	LF	LF	LF	LF	LF	LF	LF	LF	LF	LF	LF	LF	LF	LF	LF	LF	LF	LF	LF	LF	LF	LF	LF	LF	LF	LF	LF	LF	LF	LF	LF	LF	LF	LF	LF	LF	LF	LF	LF	LF	LF	LF	LF	LF	LF	LF	LF	LF	LF	LF	LF	LF	LF	LF	LF	LF	LF	LF	LF	LF	LF	LF	LF	LF	LF	LF	LF	LF	LF	LF	LF	LF	LF	LF	LF	LF	LF	LF	LF	LF	LF	LF	LF	LF	LF	LF	LF	LF	LF	LF	LF	LF	LF	LF	LF	LF	LF	LF	LF	LF	LF	LF	LF	LF	LF	LF	LF	LF	LF	LF	LF	LF	LF	LF	LF	LF	LF	LF	LF	LF	LF	LF	LF	LF	LF	LF	LF	LF	LF	LF	LF	LF	LF	LF	LF	LF	LF	LF	LF	LF	LF	LF	LF	LF	LF	LF	LF	LF	LF	LF	LF	LF	LF	LF	LF	LF	LF	LF	LF	LF	LF	LF	LF	LF	LF	LF	LF	LF	LF	LF	LF	LF	LF	LF	LF	LF	LF	LF	LF	LF	LF	LF	LF	LF	LF	LF	LF	LF	LF	LF	LF	LF	LF	LF	LF	LF	LF	LF	LF	LF	LF	LF	LF	LF	LF	LF	LF	LF	LF	LF	LF	LF	LF	LF	LF	LF	LF	LF	LF	LF	LF	LF	LF	LF	LF	LF	LF	LF	LF	LF	LF	LF	LF	LF	LF	LF	LF	LF	LF	LF	LF	LF	LF	LF	LF	LF	LF	LF	LF	LF	LF	LF	LF	LF	LF	LF	LF	LF	LF	LF	LF	LF	LF	LF	LF	LF	LF	LF	LF	LF	LF	LF	LF	LF	LF	LF	LF	LF	LF	LF	LF	LF	LF	LF	LF	LF	LF	LF	LF	LF	LF	LF	LF	LF	LF	LF	LF	LF	LF	LF	LF	LF	LF	LF	LF	LF	LF	LF	LF	LF	LF	LF	LF	LF	LF	LF	LF	LF	LF	LF	LF	LF	LF	LF	LF	LF	LF	LF	LF	LF	LF	LF	LF	LF	LF	LF	LF	LF	LF	LF	LF	LF	LF	LF	LF	LF	LF	LF	LF	LF	LF	LF	LF	LF	LF	LF	LF	LF	LF	LF	LF	LF	LF	LF	LF	LF	LF	LF	LF	LF	LF	LF	LF	LF	LF	LF	LF	LF	LF	LF	LF	LF	LF	LF	LF	LF	LF	LF	LF	LF	LF	LF	LF	LF	LF	LF	LF	LF	LF	LF	LF	LF	LF	LF	LF	LF	LF	LF	LF	LF	LF	LF	LF	LF	LF	LF	LF	LF	LF	LF	LF	LF	LF	LF	LF	LF	LF	LF	LF	LF	LF	LF	LF	LF	LF	LF	LF	LF	LF	LF	LF	LF	LF	LF	LF	LF	LF	LF	LF	LF	LF	LF	LF	LF	LF	LF	LF	LF	LF	LF	LF	LF	LF	LF	LF	LF	LF	LF	LF	LF	LF	LF	LF	LF	LF	LF	LF	LF	LF	LF	LF	LF	LF	LF	LF	LF	LF	LF	LF	LF	LF	LF	LF	LF	LF	LF	LF	LF	LF	LF	LF	LF	LF	LF	LF	LF	LF	LF	LF	LF	LF	LF	LF	LF	LF	LF	LF	LF	LF	LF	LF	LF	LF	LF	LF	LF	LF	LF	LF	LF	LF	LF	LF	LF	LF	LF	LF	LF	LF	LF	LF	LF	LF	LF	LF	LF	LF	LF	LF	LF	LF	LF	LF	LF	LF	LF	LF	LF	LF	LF	LF	LF	LF	LF	LF	LF	LF	LF	LF	LF	LF	LF	LF	LF	LF	LF	LF	LF	LF	LF	LF	LF	LF	LF	LF	LF	LF	LF	LF	LF	LF	LF	LF	LF	LF	LF	LF	LF	LF	LF	LF	LF	LF	LF	LF	LF	LF	LF	LF	LF	LF	LF	LF	LF	LF	LF	LF	LF	LF	LF	LF	LF	LF	LF	LF	LF	LF	LF	LF	LF	LF	LF	LF	LF	LF	LF	LF	LF	LF	LF	LF	LF	LF	LF	LF	LF	LF	LF	LF	LF	LF	LF	LF	LF	LF	LF	LF	LF	LF	LF	LF	LF	LF	LF	LF	LF	LF	LF	LF	LF	LF	LF	LF	LF	LF	LF	LF	LF	LF	LF	LF	LF	LF	LF	LF	LF	LF	LF	LF	LF	LF	LF	LF	LF	LF	LF	LF	LF	LF	LF	LF	LF	LF	LF	LF	LF	LF	LF	LF	LF	LF	LF	LF	LF	LF	LF	LF	LF	LF	LF	LF	LF	LF	LF	LF	LF	LF	LF	LF	LF	LF	LF	LF	LF	LF	LF	LF	LF	LF	LF	LF	LF	LF	LF	LF	LF	LF	LF	LF	LF	LF	LF	LF	LF	LF	LF	LF	LF	LF	LF	LF	LF	LF	LF	LF	LF	LF	LF	LF	LF	LF	LF	LF	LF	LF	LF	LF	LF	LF	LF	LF	LF	LF	LF	LF	LF	LF	LF	LF	LF	LF	LF	LF	LF	LF	LF	LF	LF	LF	LF	LF	LF	LF	LF	LF	LF	LF	LF	LF	LF	LF	LF	LF	LF	LF	LF	LF	LF	LF	LF	LF	LF	LF	LF	LF	LF	LF	LF	LF	LF	LF	LF	LF	LF	LF	LF	LF	LF	LF	LF	LF	LF	LF	LF	LF	LF	LF	LF	LF	LF	LF	LF	LF	LF	LF	LF	LF	LF	LF	LF	LF	LF	LF	LF	LF	LF	LF	LF	LF	LF	LF	LF	LF	LF	LF	LF	LF	LF	LF	LF	LF	LF	LF	LF	LF	LF	LF	LF	LF	LF	LF	LF	LF	LF	LF	LF	LF	LF	LF	LF	LF	LF	LF	LF	LF	LF	LF	LF	LF	LF	LF	LF	LF	LF	LF	LF	LF	LF	LF	LF	LF	LF	LF	LF	LF	LF	LF	LF	LF	LF	LF	LF	LF	LF	LF	LF	LF	LF	LF	LF	LF	LF	LF	LF	LF	LF	LF	LF	LF	LF	LF	LF	LF	LF	LF	LF	LF	LF	LF	LF	LF	LF	LF	LF	LF	LF	LF	LF	LF	LF

KENOSHA AND RACINE COUNTIES
STH 31
RACINE/KENOSHA CO LINE TO STH 11

		646.2020 Line Epoxy 6-In				646.4020 Line Epoxy 10-In			SPV.0090.01 Marking Line Black Epoxy 6-Inch Lane Line	646.5020 Arrow Epoxy White	646.5120 Word Epoxy White	646.6120 Stop Line Epoxy 18-Inch		646.7120 Diagonal Epoxy 12-In	646.7420 6-IN Crosswalk		646.6220 Yield Line Epoxy 18-IN
ROUTE	Nearest Crossroad	Yellow Edgeline Left	Edgeline Right	White Lane Line	Mini Dash	Mini Dashes	White Left Lane	Right Lane	Black	Type 2	Only	Mainline	Interchanging Roadway	White Gore	Mainline	Interchanging Roadway	White Mainline
		LF	LF	LF	LF	LF	LF	LF	LF	EACH	EACH	LF	LF	LF	LF	LF	EACH
STH 31 SB	STH 11 to CTH S STH 11 Larchmont Dr Green Ridge Dr	34850	34850	16475					16475			65	54		264	256	
	South Dr Biscayne Ave Braun Rd						95 95 210	445		4	2	65	49	50			
	CTH KR 4th Pl/Old Green Bay Rd Turn Around 6th Pl 7th St						410 115 105 95 135	500 180		4 1	2 1	52	49		232	228	
	Turn Around Turn Around Petrifying Springs Rd						105 105 100										
	10th St 12th St/Somers Rd House 1317						710 315 90	220		2	1	77	24				
	Turn Around New Life Church 16th Pl						100 105 150	660		3	2						
	1717 House 18th St 2000 House						105 175 95	105									
	22nd St 2511 House Festival Foods						100 100 440			1	1						
	31st St 35th St 38th ST/CTH S				30		130 180	395 465		2 4	1 2	68					
				50		42						62	52		262		6
SUBTOTAL		34850	34850	16525	30	42	4550	2970	16475	21	12	389	228	50	758	484	6

KENOSHA COUNTY
STH 31
STH 20 TO 4 MILE ROAD

KENOSHA COUNTY STH 31 STH 20 TO 4 MILE ROAD		646.2020 Line Epoxy 6-In					646.4020 Line Epoxy 10-In			SPV.0090.01 Marking Line Black Epoxy 6-Inch Lane Line	646.5020 Arrow Epoxy White	646.5120 Word Epoxy White	646.6120 Stop Line Epoxy 18-Inch		646.7420 6-IN Crosswalk		646.6220 Yield Line Epoxy 18-IN		COMMENTS
ROUTE	Nearest Crossroad	Yellow		Edgeline Right LF	White		Mini Dashes LF	White		Black LF	Type 2 EACH	Only EACH	White		White		White		
		Centerline LF	Edgeline Left LF		Lane Line LF	Mini Dash LF		Left Lane LF	Right Lane LF				Mainline LF	Interchanging Roadway LF	Mainline LF	Interchanging Roadway LF	Mainline EACH	Interchanging Roadway EACH	
STH 31 NB	STH 20 to Green Bay Rd STH 20 Newman Rd Kinzie Ave				4500	72				4500									Do not replace first word
	Westmore Dr Cortland Ave Ridgeway Ave																		
	Shirley Ave Pick N Save Spring St/CTH C Driveway					40													Do not replace first word
	Green Bay Rd to 4 Mile Rd Green Bay Rd Indian Hills Dr		16000	16000	4000 100	44	120	170 105	455	4000									Do not replace first word
	Indian Hills Dr to Limerick Ln Limerick Ln to STH 38 STH 38	3565 1188																	
	Bank Bank to Eastwood Ridge Eastwood Ridge	860						45 75											
	Eastwood Ridge to Bluebird Lane Bluebird Lane Bluebird Lane to Twin Elms Dr	2025 440						87											
	Twin Elms Dr Twin Elms Dr to Mona Park Rd Mona Park Rd to Walsh Rd	490 650						110											
	Walsh Rd Walsh Rd to Ridgewood Cir Ridgeway Ave to 3 Mile Rd	1095 1265						170											
	3 Mile Rd 3 Mile Rd to Valley Rd Valley Rd to Cobblestone Dr	1715 2500						156											
	Cobblestone Dr to Marcia Dr Marcia to Kings Cove Rd Kings Cove Rd	1550 2205						70											
	Kings Cove Rd to Johnson Ave Johnson Ave to 4 Mile Rd 4 Mile Rd	230 1480																	
	SUBTOTAL		21258	16000	16000	8600	156	177	3593	1165	8500	77	16	253	214	408	346	16	8

KENOSHA COUNTY
STH 31
STH 20 TO 4 MILE ROAD

ROUTE	Nearest Crossroad	646.2020 Line Epoxy 6-In				646.4020 Line Epoxy 10-In White			SPV.0090.01 Marking Line Black Epoxy 6- Lane Line	646.5020 Arrow Epoxy White	646.5120 Word Epoxy White	646.6120 Stop Line Epoxy 18-Inch White		646.7420 6-IN Crosswalk White		646.6220 Yield Line Epoxy 18-IN White		COMMENTS
		Yellow Edgeline Left LF	Edgeline Right LF	White Lane Line LF	Mini Dash LF	Mini Dashes LF	Left Lane LF	Right Lane LF	Black LF	Type 2 EACH	Only EACH	Mainline LF	Interchanging Roadway LF	Mainline LF	Interchanging Roadway LF	Mainline EACH	Interchanging Roadway EACH	
STH 31 SB	4 Mile Rd to Green Bay Rd	16000	16000	4000					4000			24	57					
	4 Mile Rd						85			1	1							
	Johnson Ave						75			1	1							
	Marcia Dr						60			1	1							
	Cobblestone Dr						70			1	1							
	Valley Rd																	
	Ridgewood Cir						155			2	1							
	Walsh Rd						95			1	1							
	Mona Park Rd						120			1	1							
	STH 38					24	400	175		3	2	46	68					
STH 31 SB	Limerick Ln						105			1	1							
	Indian Hills Dr						100			1	1							
	Hansen Interiors						80											
	Green Bay Rd											48						
	Green Bay Rd to 4 Mile Rd			4500					4500									
	Old Green Bay Rd						190											
	Spring St/CTH C				104	12	600	155		6	3	75	520	260	230		11	
	Sunnyside Ave						165			1	1							
	Shirley Ave						185											
	Ridgeway Ave						180											
STH 31 SB	Cortland Ave						125											
	Graceland Blvd						195											
	Westmore Dr						145											
	Kinzie Ave						180											
	Newman Rd						495	210		4	2	65	38	210	180			
	STH 20				52		450	265		6	3	55	58	240	232	9	8	Do not replace the first word
																		Do not replace the first word
	SUBTOTAL	16000	16000	8500	156	36	4255	805	8500	30	19	313	741	710	642	9	19	

DODGE COUNTY
IH 41
WASHINGTON CO LINE TO FOND DU LAC CO LINE

ROUTE	Nearest Crossroad	646.2020 Line Epoxy 6-In			646.4020 Line Epoxy 10-In	646.6120 Stop Line Epoxy 18-Inch
		Yellow	White		White	White
		Edgeline Left	Edgeline Right	Lane Line	Ramp	Mainline
		LF	LF	LF	LF	LF
IH 41 NB	Mile Marker 81.08 to 1 Mile North of Exit 8	39020	29665	7425		
	STH 28 Off Ramp	1402	2828		353	36
	STH 28 On Ramp	1598	3629			
	Mile Marker 83 Rest Area Off Ramp	150	1125			
	Mile Marker 83 Rest Area On Ramp	127	1220			
	STH 67 Off Ramp	1020	1621		95	48
	STH 67 On Ramp	1752	2866			
	STH 49 Off Ramp	975	1673		136	37
IH 41 SB	STH 49 On Ramp	1448	3018			
	1 Mile North of Exit 87 to Mile Marker 81.0	40802	31499	7425		
	STH 49 Off Ramp	1028	1629		102	37
	STH 49 On Ramp	1453	3198			
	STH 67 Off Ramp	1218	1712		163	49
	STH 67 On Ramp	1111	2794			
	Mile Marker 83 Rest Area Off Ramp	175	630			
	Mile Marker 83 Rest Area On Ramp	150	2170			
	STH 28 Off Ramp	1169	1723		272	28
	STH 28 On Ramp	1248	3238			
TOTAL		95846	96238	14850	1121	235

RACINE COUNTY IH 41/94 RACINE/ KENOSHA CO LINE TO CTH BB/Rawson Ave		646.2020 Line Epoxy 6-In				646.4020 Line Epoxy 10-In White		646.5020 Arrow Epoxy White					646.5120 Word Epoxy White	646.6120 Stop Line Epoxy 18-Inch White		646.7120 Diagonal Epoxy 12-In White	646.7420 6-IN Crosswalk White		646.6220 Yield Line Epoxy 18-IN White	Comments
ROUTE	Nearest Crossroad	Yellow Edgeline Left LF	Edgeline Right LF	White Lane Line LF	Mini Dash LF	Mini Dash LF	Ramp LF	Type 1 EACH	Type 2 EACH	Type 3 EACH	Type 4 EACH	Type 5 EACH	Only EACH	Mainline LF	Interchanging Roadway LF	Gore LF	Mainline LF	Interchanging Roadway LF	Mainline EACH	
IH 41/94 NB/WB	Racine/Kenosha Co Line to CTH BB On Ramp	94145	94145		45		520		6				3	40	103					
	STH 11 Off Ramp	1455	2380						4				2							
	STH 11 (Specials)																			
	STH 11 On Ramp	1215	2770	775								2								
	STH 20 Off Ramp	1045	1760	249		33	680		6	2			3	58	155					
	STH 20 Specials				63			2	4				3							
	STH 20 On Ramp	1450	2060	250								2								
	CTH K Off Ramp	955	1485				365		2	2			1	40						
	CTH K On Ramp	1345	2025	175								2								
	CTH G Off Ramp	1075	1510				190							40	59					
IH 41/94 SB/EB	CTH G On Ramp	1055	1590																	
	Seven Mile Rd Off Ramp	1320	2115	150		33	282		2	2		2	1	46						
	Seven Mile Rd On Ramp	690	2270																	
	Elm Rd Off Ramp	1320	1840		24	33	335		2	2		2	1	26	12					
	Elm Rd On Ramp	845	1515																	
	STH 100 Off Ramp	795	2590		50	45	1375		6	2		2	3	59	126		188	234		
	STH 100 On Ramp	1005	2695		42		320							48		90	216			
	Drexel Ave Off Ramp	1200	1795		30		415		2	2	1		1	14	72				7	
	Drexel Ave Ofn Ramp	1060	2535				230										112			
	Rawson Ave/CTH BB Off Ramp	1110	2750			492	430		2	2	1			41	108	30				DO NOT REPLACE ARROWS BEFORE GORE STARTS
IH 41/94 SB/EB	Rawson Ave/CTH BB On Ramp	1150	1890			492	825													
	CTH BB to Kenosha/Racine Co Line	94145	94145																	
	Rawson Ave/CTH BB Off Ramp	1060	1525	475	40		475		7	3	1		3	50	108					
	Rawson Ave/CTH BB On Ramp	1075	1475	125			389							24						
	Drexel Ave Off Ramp	950	1430		32	66	810		4	2	1		2	30	68		86		7	
	Drexel Ave Ofn Ramp	890	2535	100			280							24						
	STH 100 Off Ramp	845	2855	100	104	171	1280		8			2	4	90	120		180	270		
	STH 100 On Ramp	890	3330	100		75								24			200			
	Elm Rd Off Ramp	1710	2190	75			360		2	2		2	1	30						
	Elm Rd On Ramp	1025	1835				900													
IH 41/94 SB/EB	Seven Mile Rd Off Ramp	1320	2115	125		33	510		2	2		2		40						
	Seven Mile Rd On Ramp	1110	2750																	
	CTH G Off Ramp	1165	2430			33	175							48	68					
	CTH G On Ramp	845	1825																	
	CTH K Off Ramp	1190	1720		36		910		4	2			2	27	72					
	CTH K On Ramp	1045	1675									2								
	STH 20 Off Ramp	1175	1420	250		52	835		4	2			6	85	129					
	STH 20 Specials				117				8											
	STH 20 On Ramp	900	1680	175		28						2								
	STH 11 Off Ramp	1220	2155	550	18	57	920		8				2	54	77					
IH 41/94 SB/EB	STH 11 Specials								6				3							
	STH 11 On Ramp	1320	2587	200			185					2								
TOTAL		228115	263397	3874	601	1643	13996	6	89	27	4	24	41	938	1277	120	982	504	14	
DO NOT PAINT TAPE LANE LINES OR GORES																				

WALWORTH COUNTY IH 43 Rock Co Line to USH 12		646.2020 Line Epoxy 6-In		646.4020 Line Epoxy 10-In White	646.5020 Arrow Epoxy White		646.5120 Word Epoxy White	646.6120 Stop Line Epoxy 18-Inch		646.7420 6-IN Crosswalk	
ROUTE	Nearest Crossroad	Yellow	White	Ramp	White		Only	White		White	
		Edgeline Left	Edgeline Right		Type 2	Type 3		Mainline	Interchanging Roadway	Mainline	Interchanging Roadway
		LF	LF		EACH	EACH		LF	LF	LF	LF
IH 43 NB	Rock Co Line to USH 12	82220	80220								
	USH 14 Off Ramp	1162	2218	165				19			
	USH 14 On Ramp	1584	3115								
	CTH X Off Ramp	1637	2640	185				24			
	CTH X On Ramp	967	1056								
	STH 50 Off Ramp	950	1848	255				41	37	82	130
	STH 50 On Ramp	1320	2904								
	STH 67 Off Ramp	1109	2059	105	1			42	27		
IH 43 SB	STH 67 On Ramp	950	2482								
	USH 12 to Rock Co Line	82220	80220								
	STH 67 Off Ramp	1267	2270	315	2	2	1	39	25		
	STH 67 On Ramp	950	2429								
	STH 50 Off Ramp	1162	2112	220				36	80	72	
	STH 50 On Ramp	792	2270							120	
	CTH X Off Ramp	1162	845	275				19			
	CTH X On Ramp	1901	3379								
	USH 14 Off Ramp	1056	2587	150				17			
	USH 14 On Ramp	1320	2851								
Total		183729	197505	1670	3	2	1	237	169	274	130

MILWAUKEE COUNTY IH 43 MOORLAND RD SOUTH ROUNDABOUT		646.2020 Line Epoxy 6-In White Lane Line LF	646.4020 Line Epoxy 10-In White Gore LF	Right Lane LF	Type 1 EACH	Type 2 EACH	646.5020 Arrow Epoxy White Type 2R EACH	Type 3 EACH	Type3R EACH	646.5120 Word Epoxy White Only EACH	646.6320 Dotted Extension Epoxy 18-Inch White 2' Line, 2' Gap LF
IH 43	Moorland Rd South RAB Inner Circle	198	240		3	2		3			70
	Between Roundabouts	550		510	4		2		2	3	
TOTAL		748	240	510	7	2	2	3	2	3	70

Don't paint what was painted last year.

MILWAUKEE COUNTY IH 43/IH 94 NATIONAL AVE TO MITCHELL INTERCHANGE		646.2020 Line Epoxy 6-In Yellow Edgeline Left LF		646.4020 Line Epoxy 10-In White Gore LF	646.5020 Arrow Epoxy White Type 2 EACH		646.5120 Word Epoxy White Only EACH	646.6120 Stop Line Epoxy 18-Inch White Mainline LF		646.7420 6-IN Crosswalk White Mainline LF	Interchanging Roadway LF
IH 43/94 SB	National Ave to Mitchell Interchange	25344	25344								
	Exit 311 Off Ramp To split	480	1105								
	Exit 311 On Ramp Stop Line to IH 43	450	830								
	Holt Ave Off Ramp	2370	2815	135							
	Holt Ave On Ramp	725	1510	330		2					
IH 43/94 NB	Howard Ave Off Ramp	920	1120	230	6		3	58	68	200	150
	Howard Ave On Ramp	845	1400								
	Mitchell Interchange to National Ave	25344	25344								
	Howard Ave Off Ramp	820	1145					31	73	78	314
	314A	670	670								
	Howard Ave to Holt Ave	3675	3675								
	Holt Ave Off Ramp	680	860	90	4		4	67		134	166
	Holt Ave On Ramp	800	1100	380						74	
	Exit 311 Off Ramp	1665	1850					24			
	Exit 311 On Ramp	1950	2020	90				24			
TOTAL		66738	70788	1255	10	2	7	204	141	486	630

DO NOT PAINT OVER TAPE

WASHINGTON COUNTY USH 45 41/45 Split to CTH H		646.2020 Line Epoxy 6-In			646.4020 Line Epoxy 10-In				646.5020 Arrow Epoxy White			646.5120 Word Epoxy White	646.6120 Stop Line Epoxy 18-Inch		646.6320 Dotted Extension Epoxy 18-Inch	646.7420 6-IN Crosswalk		646.6220 Yield Line Epoxy 18-IN	
ROUTE	Nearest Crossroad	Yellow	White		Ramp	Gore	White		Type 2	Type 3	Type 3R	Only	Mainline	White		2' Line, 2' Gap	White		Mainline
		Edgeline Left	Edgeline Right	Mini Dash			Left Lane	Right Lane						Interchanging Roadway	Interchanging Roadway				
		LF	LF	LF			LF	LF						LF	LF		LF	LF	
USH 45 NB	IH 41 Gore to CTH H 145 Off Ramp STH 145 Inner Circle 145 On Ramp	91295 792 898	91295 1848 2218					150 60							18 42				
	STH 60 Skip 2024 LET Pleasant Valley Rd Off Ramp Pleasant Valley Rd On Ramp	1056 1056	1954 2059		205								22					6	
	Paradise Dr Off Ramp Paradise Dr On Ramp	950 1373	1901 2957	28	870				4			2	54	103			144		
	STH 33 Off Ramp STH 33 On Ramp	845 1056	1795 2534		325				2	2			18	77		78 74		10	
	CTH D Off Ramp CTH D On Ramp CTH H	792 1320	1637 2482		1603								14					7	
USH 45 SB	CTH H to IH 41 CTH H	91295	91295					680 465	2			1	36				166 160		
	CTH D Off Ramp CTH D On Ramp	1214 1214	2218 2482		180								14						
	STH 33 Off Ramp STH 33 On Ramp	792 792	1742 2165		145								16	79		90 98		7	
	Paradise Dr Off Ramp Paradise Dr On Ramp	1373 1267	2957 2218	28	400				4	2		2	27	73		98		10	
	Pleasant Valley Rd Off Ramp Pleasant Valley Rd On Ramp STH 60 Skip 2024 LET	1162 1003	2693 2270		165								40					8	
	145 Off Ramp STH 145 Inner Circle 145 On Ramp	792 1003	1742 2534		305	65 150 60			2		2	1			48 48				
TOTAL		203340	226996	56	4198	485	1385	860	16	4	2	7	277	356	156	868	160	48	

DO NOT PAINT OVER TAPE LANE LINES

MILWAUKEE COUNTY
USH 45/STH 100
COLLEGE AVE TO IH 43

ROUTE	Nearest Crossroad	646.2020 Line Epoxy 6-In				646.4020 Line Epoxy 10-In	646.5020 Arrow Epoxy White			646.5120 Word Epoxy White	646.6120 Stop Line Epoxy 18-Inch		646.7520 Crosswalk Epoxy Block Style 24-IN	
		Yellow		White		Left Lane	Type 2	Type 3	Type 5	Only	Mainline	Interchanging Roadway	Mainline	Interchanging Roadway
		Edgeline Left	Mini Dash	Edgeline Right	Lane Line									
		LF	LF	LF	LF	LF	EACH	EACH	EACH	EACH	LF	LF	LF	LF
USH 45 NB	COLLEGE AVE TO IH 43	8850		8850	4600									
	Kelm Rd					250	2			1				
	Culvers					260	2			1				
	CTH OO		50			315	2			1	78	77	150	138
	Janesville Rd/STH 24		36			410	4		2	2	69	42	174	102
	Scharles Ave					200	2			1				
	Parnell Ave					170	2			1	50	20	126	66
	Rockne Ave					170	2			1				
	Grange Ave					430	2			1	50	42	132	108
	Ridge Rd					200	2			1				
USH 45 SB	Abbott Ave					195	2			1	50	16	126	60
	Double D's					130	2			1				
	Edgerton Ave					295	2			1	52	40	150	114
	IH 43 TO COLLEGE AVE	8850		8850	4625									
	Edgerton Ave					295	3	1	2	2	64	38	150	108
	Sarabella					145	2			1				
	Abbott Ave					125	2			1	50		126	96
	Ridge Rd					195	2			1				
	Grange Ave					400	2			1	51	39	138	108
	Festival Foods					210	2			1				
TOTAL	Parnell Ave					195	2			1	45	13	132	66
	Scharles Ave					145	2			1				
	Pick'n Save					185	2			1				
	Janesville Rd/STH 24		34			384	2			1	65	62	174	144
	Forest Home Ave		50			105	2			1	85	68	162	150
	Kay Pkwy					250	2		2	1				
TOTAL	Kelm Rd					230	2			1				
	College Ave					165	2			1	54		156	
	TOTAL	17700	170	17700	9225	6054	55	1	6	28	763	457	1896	1260

MILWAUKEE COUNTY STH 59 MILWAUKEE/WAUKESHA COUNTY LINE TO 97TH ST		646.2020 Line Epoxy 6-In				646.4020 Line Epoxy 10-In		646.5020 Arrow Epoxy			646.5120 Word Epoxy	646.6120 Stop Line Epoxy 18-Inch		646.7420 6-IN Crosswalk		646.6220 Yield Line Epoxy 18-IN	
ROUTE	Nearest Crossroad	Yellow Edgeline Left LF	White		Mini Dash LF	White		White			White Only EACH	White		White		White Mainline	
			Edgeline Right LF	Lane Line LF		Left Lane LF	Right Lane LF	Type 1 EACH	Type 2 EACH	Type 3 EACH		Mainline LF	Interchanging Roadway LF	Mainline LF	Interchanging Roadway LF		
STH 59 EB	Milwaukee/Waukesha County Line to 97th St	9295	9295	2325													
	124th St					95						51	38	210	170		
	122nd St					100											
	121st St																
	120th St					115											
	119th St					100											
	117th St					85											
	116th St					265	105		2		2	56	47	298	196		
	114th St					65											
	113th St					80											
	112th St					75											
	110th St					85											
108th St/STH 100				62	655	260		5		3	64	84	211	274			
106th St					190												
104th St					200												
103rd St					200												
102nd St					245												
101st St					240	320		1	2	1	55	33	178	170			
IH 41 SB					280	610	4	2		3	52		152	76			
IH 41 NB				34	470			4		2	53						
98th St					110												
STH 59 WB	97th St to Milwaukee/Waukesha County Line	9295	9295	2325													
	IH 41 NB				34	145	430	2	1			50		224	68		
	IH 41 SB				74	430		4		2	54	58		143			
	101st St					190	250		2		2	52	24	210	123		
	102nd St					190											
	103rd St					230											
	104th St					200											
	106th St					445											
	108th St/STH 100				58	740	480		5		3	63	53	208	256	10	
	110th St					235											
	111th St					200											
	112th St					80											
113th St					85												
114th St					75												
116th St					820	100		3		2	54	44	184	162			
121st St					90												
124th St					515	104		4		2	101	37	284	160			
Total		18590	18590	4650	262	8325	2659	6	33	2	22	705	418	2159	1798	10	
PROJECT NO: 1000-77-25				HWY: STH 59		COUNTY: MILWAUKEE			MISCELLANEOUS QUANTITIES						SHEET:		E

WASHINGTON COUNTY STH 60 TILLE LAKE RD ROUNDABOUT		646.2020 Line Epoxy 6-In White Lane Line LF	646.4020 Line Epoxy 10-In White Gore LF	Type 2 EACH	Type 3 EACH	Type 3R EACH	646.6320 Dotted Extension Epoxy 18-Inch White 2' Line, 2' Gap LF	646.7120 Diagonal Epoxy 12-In White Gore LF	646.7520 Crosswalk Epoxy Block Style 24-IN White Mainline LF
STH 60	Tille Lake Rd WB Approach		440	2		2			160
	Tille Lake Rd Inner Circle	230	340	2	2		82		
	Tille Lake Rd EB Approach		405		2	2		20	
Total		230	1185	4	4	4	82	20	160

WAUKESHA COUNTY
STH 83
MEADOWS BLVD TO GOLF RD

WAUKESHA COUNTY STH 83 MEADOWS BLVD TO GOLF RD		646.2020 Line Epoxy 6-In					646.4020 Line Epoxy 10-In		646.5020 Arrow Epoxy	646.5120 Word Epoxy	646.6120 Stop Line Epoxy 18-Inch		646.7120 Diagonal Epoxy 12-In		
ROUTE	Nearest Crossroad	Yellow	White			White		Black	White		Only	White		Median	
		Centerline	Edgeline Left	Edgeline Right	Lane Line	Mini Dash	Left Lane		Right Lane	Type 2		Type 5	Mainline		Interchanging Roadway
		LF	LF	LF	LF	LF	LF	LF	LF	EACH	EACH	EACH	LF	LF	LF
STH 83 NB	Meadows Blvd to Golf Rd	1500	4700	4700	1150				1150						
	Concord Ln							400		2		1			165
	Phyllis Pkwy						50								
	Hillside Dr						150	313		3		2	39	40	
	Heritage Dr						200	160		4		2	65	40	
	Sun Valley Dr						210								
	IH 94 EB							285		2		1	38		
	IH 94 WB					74	520			4		2	48	60	
	Bank						265								
	Golf Rd						305	280		4		2	48		
STH 83 SB	Golf Rd to Meadows Blvd	1500	4700	4700	1150				1150						
	IH 94 WB					32	105	105		1		1	51		
	IH 94 EB						455			4		2	48	50	
	Heritage Dr					78	370	150		6		3	64	60	
	Hillside Dr						260						60		
	Fairfield Way						190				2				
	Concord Ln						120			2		1			
Total		3000	9400	9400	2300	184	3200	1693	2300	32	2	17	461	250	165

WAUKESHA COUNTY

IH 94

WAUKESHA/JEFFERSON CO LINE TO STH 83

ROUTE	Nearest Crossroad	646.2020 Line Epoxy 6-In				646.4020 Line Epoxy 10-In	646.5020 Arrow Epoxy							646.5120 Word Epoxy	646.6120 Stop Line Epoxy 18-Inch		646.6320 Dotted Extension Epoxy 18-Inch	646.7420 6-IN Crosswalk		646.7520 Crosswalk Epoxy Block Style 24-IN	646.5420 Aerial Enforcement Bar Epoxy
		Yellow Edgeline Left LF	Edgeline Right LF	White		White Ramp LF	White							Only White EACH	Mainline LF	Interchanging Roadway LF	2' Line, 2' Gap LF	Mainline LF	Interchanging Roadway LF	Mainline LF	Mainline EACH
				Lane Line LF	Mini Dash LF		Type 1	Type 2	Type 2R	Type 3	Type 3R	Type 4	Type 5								
IH 94 EB	Jefferson Co Line to STH 83	45830	45830			405								3	47	72		94			
	STH 67 Off Ramp	1162	1742					6						2				48			
	STH 67SB On Ramp	264	1264	325				4													
	STH 67 NB On Ramp	739	3062										2	2				48			
	Sawyer Rd Off Ramp	800	1901	100		775		2	2	2				2			32			110	
	Sawyer Rd Inner Circle			375		477	3	2		3	2			1			74				
	Sawyer Rd On Ramp	800	950			40							2							70	
	Genessee St/CTH C Off Ramp	1162	1848			110						1			15						
	Genessee St/CTH C On Ramp	634	1584																		
	Upper Nemahbin Lake																				6
IH 94 WB	STH 83 Off Ramp	475	1162	75	84	343		4		2				4	46						
	STH 83 On Ramp	1320	1795	150	204										26						
	STH 83 to Jefferson Co Line	45830	45830				2	4		2				6	63						
	STH 83 Off Ramp	528	2640		192	633															
	STH 83 On Ramp	1109	2693	250																	
	Genessee St/CTH C Off Ramp	634	1584									1			46						
	Genessee St/CTH C On Ramp	950	1954																		6
	Upper Nemahbin Lake																				
	Sawyer Rd Off Ramp	792	2059			376		2	2	2				2			18			140	
	Sawyer Rd Inner Circle					504	3	1		3				1			42				
TOTAL	Sawyer Rd On Ramp	800	3326			461							2							50	
	STH 67 Off Ramp	1795	1373			1125		6		2				3	58	144		116	248		
	STH 67 On Ramp	845	792										2					80			
TOTAL		106469	123389	1275	480	5249	8	31	4	16	2	2	8	24	301	216	166	386	248	370	12

DO NOT PAINT OVER TAPE LANE LINES.

MILWAUKEE COUNTY STH 145 WALNUT ST TO 6TH ST		646.2020 Line Epoxy 6-In				646.4020 Line Epoxy 10-In		646.5020 Arrow Epoxy		646.5120 Word Epoxy	646.6120 Stop Line Epoxy 18-Inch		646.7420 6-IN Crosswalk	
ROUTE	Nearest Crossroad	Yellow	White		Mini Dash	White		White		Only	White		White	
		Edgeline Left LF	Edgeline Right LF	Lane Line LF		Left Lane LF	Right Lane LF	Type 1	Type 2		Mainline	Interchanging Roadway	Mainline	Interchanging Roadway
STH 145 WB	6th St to Walnut St	3500	3500	1750							45	106	210	381
	IH 43 NB On					735	545				63			136
	IH 43 SB On					735					96	53		172
	Walnut St				150	175	250	2	2	3	75	60	276	250
STH 145 EB	Walnut St to 6th	3500	3500	1750							55	90	250	276
	Walnut St						566		2	1	32			
	IH 43 SB On					620	330		2	1	68	30		
	IH 43 NB On					75	660		3	2	65	110		
	6th St													
TOTAL		7000	7000	3500	150	2340	2351	2	9	7	499	449	736	1215

WASHINGTON COUNTY STH 145 STH 175 to CTH P		646.2020 Line Epoxy 6-In				646.4020 Line Epoxy 10-In			646.5020 Arrow Epoxy				646.5120 Word Epoxy	646.6120 Stop Line Epoxy 18-Inch		646.6320 Dotted Extension Epoxy 18-Inch	646.7120 Diagonal Epoxy 12-In	646.7520 Crosswalk Epoxy Block Style 24-IN
ROUTE	Nearest Crossroad	Yellow	White		Lane Line	Gore	Left Lane	Right Lane	White				Only	White		2' Line, 2' Gap	Median	Mainline
		Centerline LF	Edgeline Left LF	Edgeline Right LF					Type 1	Type 2	Type 3	Type 3R		Mainline	Interchanging Roadway			
STH 145 NB	End of Divided East of CTH P to STH 175	9980	4965	4965	400													
	CTH P						500	445		4			2		12			
	Cabela Way							125			1	1						80
	Cabela Way Inner Circle				140	390			2		4					108		
	Mayfield Way						540	310		4			2					
	IH 41 NB							135	2		2		1					
	IH 41 SB							100	2			2	1					
	Richfield Pkwy						195	195		2			1				120	
STH 145 SB	Mayfield Rd						195			2			1				120	
	STH 175/Pioneer Rd			4965				245		6	2		3	33	82			
	STH 175 to CTH P		4965	4965	4000		180			2								
	Mayfield Rd							95	1		1		1					
	IH 41 SB							125	2			2	1					
	Mayfield Way						465	385		4			2					
	Cabela Way							140			2	2						80
	USH 45 SB							530	2	2			2					
	CTH P						480	450						28				
Total		9980	9930	14895	4540	390	2360	3280	11	26	12	7	17	61	94	108	240	160

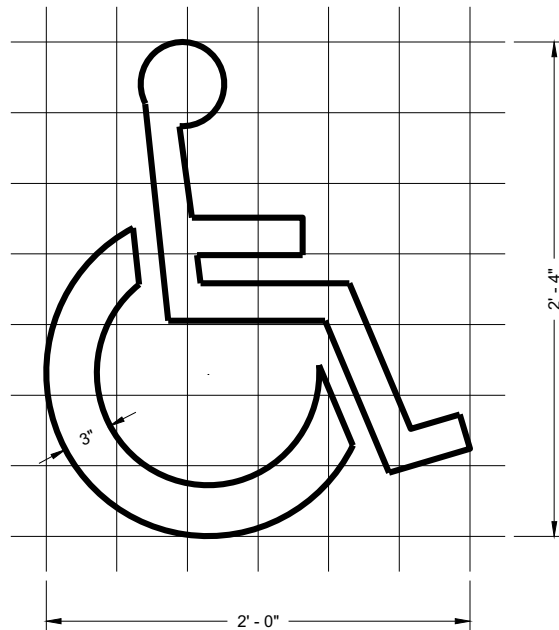
USH 45 Dotted Extension on USH 45 MQ list

IH 41 Dotted Extensions done in 2024

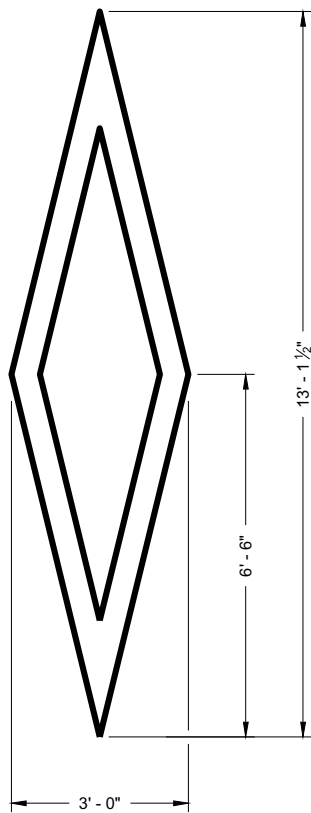
PROJECT NO: 1000-77-25	HWY: STH 145	COUNTY: VARIOUS	MISCELLANEOUS QUANTITIES	SHEET:	E
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Standard Detail Drawing List

15C07-15A	PAVEMENT MARKING SYMBOLS
15C07-15B	PAVEMENT MARKING WORDS
15C07-15C	PAVEMENT MARKING ARROWS
15C07-15D	ROUNDAABOUT ARROWS
15C08-23A	PERMANENT LONGITUDINAL PAVEMENT MARKINGS
15C08-23C	PAVEMENT MARKING (TURN LANES)
15C08-23D	PAVEMENT MARKING (TURN LANES)
15C11-10B	CHANNELIZING DEVICES DRUMS, CONES, BARRICADES AND VERTICAL PANELS
15C12-09A	TRAFFIC CONTROL FOR LANE CLOSURE WITH FLAGGING OPERATION
15C14-04	AERIAL ENFORCEMENT BARS PAVEMENT MARKING DETAILS
15C18-09A	MEDIAN ISLAND MARKINGS
15C18-09B	PAVEMENT MARKINGS, MEDIAN ISLAND NOSE
15C18-09C	MEDIAN PAVEMENT MARKINGS DOUBLE ARROW WARNING SIGN PLACEMENT
15C19-09A	MOVING PAVEMENT MARKING OPERATION TWO-LANE TWO-WAY ROADWAY
15C19-09B	MOVING PAVEMENT MARKING OPERATION MULTI-LANE UNDIVIDED ROADWAY
15C19-09C	MOVING PAVEMENT MARKING OPERATION MULTI-LANE DIVIDED ROADWAY
15C20-02	YIELD MARKING
15C31-07A	PAVEMENT MARKING EXIT RAMP AND PARALLEL EXIT RAMP
15C31-07B	PAVEMENT MARKING MAJOR SPLIT FREEWAY TO FREEWAY
15C31-07C	PAVEMENT MARKING ENTRANCE RAMP AND PARALLEL ENTRANCE RAMP
15C31-07D	PAVEMENT MARKING LANE DROP AND LANE REDUCTION
15C33-05	STOP LINE AND CROSSWALK PAVEMENT MARKING
15C35-06A	PAVEMENT MARKING (INTERSECTIONS)
15D12-13A	TRAFFIC CONTROL, TAPERED ENTRANCE RAMP WITHIN LANE CLOSURE
15D16-06	TRAFFIC CONTROL, EXIT RAMP CLOSURE
15D20-08A	TRAFFIC CONTROL, SINGLE LANE CLOSURE, DIVIDED NON-FREEWAY/EXPRESSWAY
15D20-08B	TRAFFIC CONTROL, SINGLE RIGHT LANE CLOSURE, UNDIVIDED NON-FREEWAY/EXPRESSWAY
15D20-08C	TRAFFIC CONTROL, SINGLE LEFT LANE CLOSURE, UNDIVIDED NON-FREEWAY/EXPRESSWAY
15D27-03	TRAFFIC CONTROL, SHOULDER CLOSURE ON DIVIDED ROADWAY, SPEEDS GREATER THAN 40 MPH
15D37-03	TRAFFIC CONTROL, 2-LANE ROUNDAABOUT
15D43-02	TRAFFIC CONTROL, SHORT DURATION MOBILE OPERATIONS
15D50-03A	TRAFFIC CONTROL, ADDED LANE CLOSURE WITHOUT LANE SHIFT
15D50-03B	TRAFFIC CONTROL, ADDED LANE CLOSURE WITH LANE SHIFT
15D51-01	TRAFFIC CONTROL, MOBILE OPERATIONS ON AN UNDIVIDED ROADWAY



HANDICAP SYMBOL



PREFERENTIAL
LANE SYMBOL

GENERAL NOTES

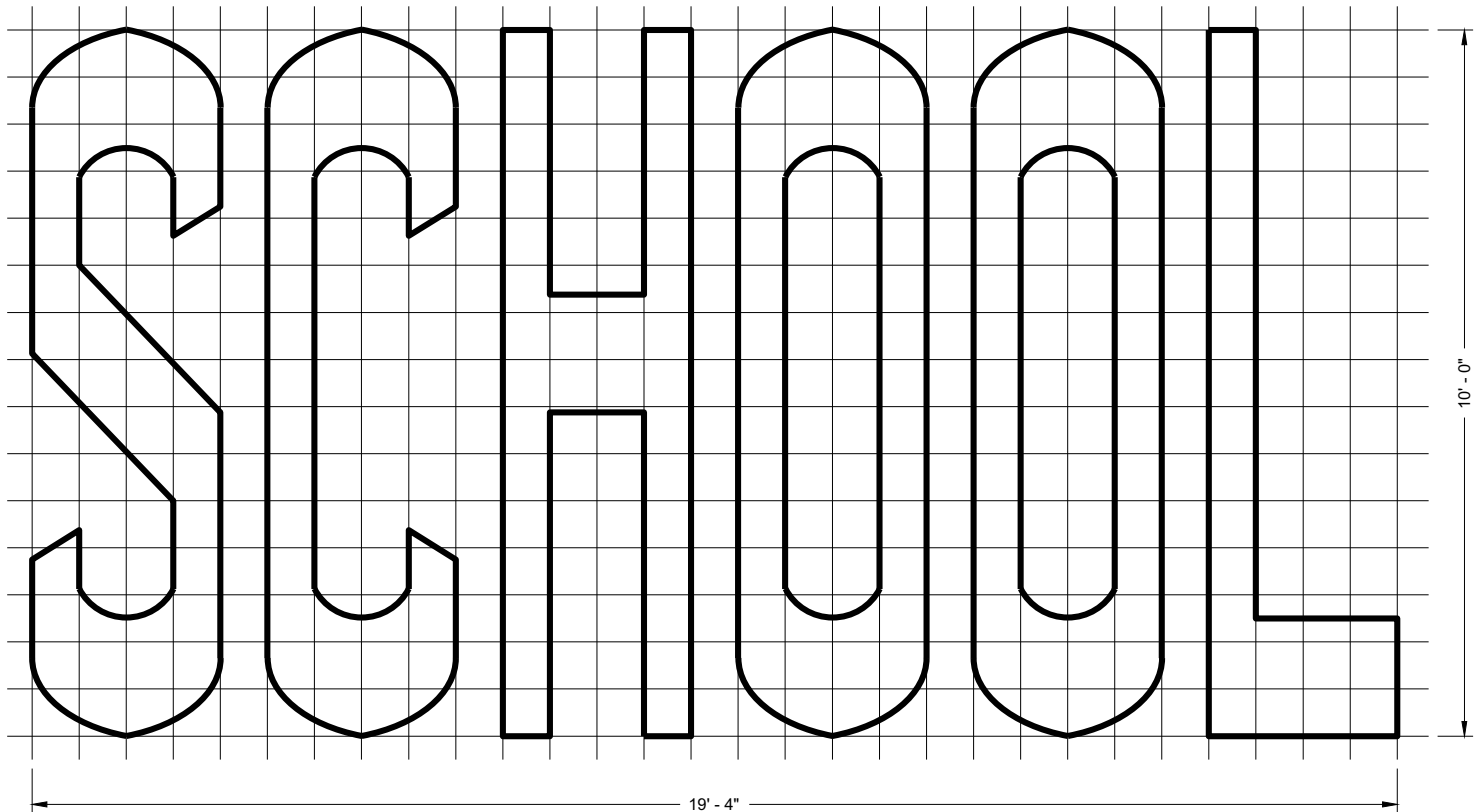
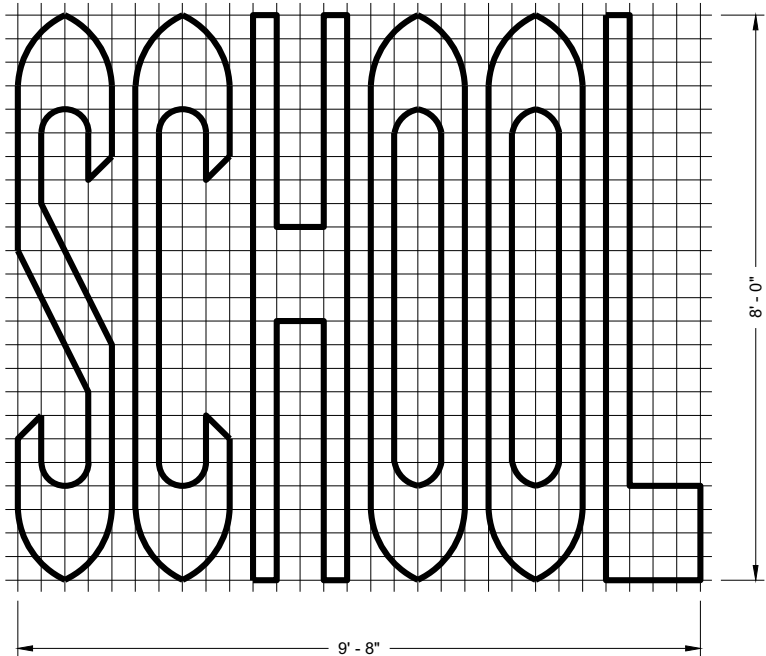
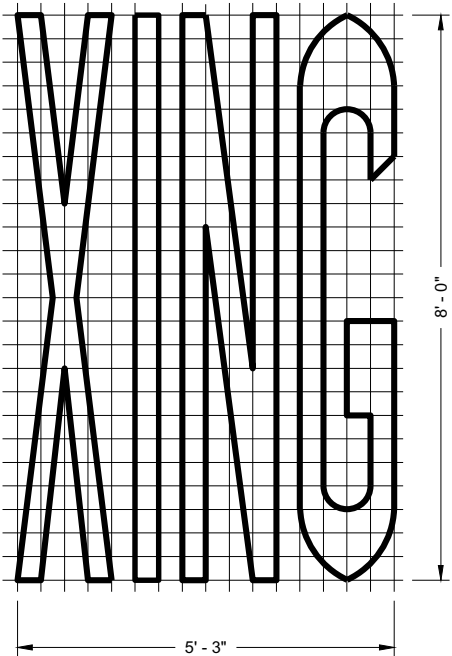
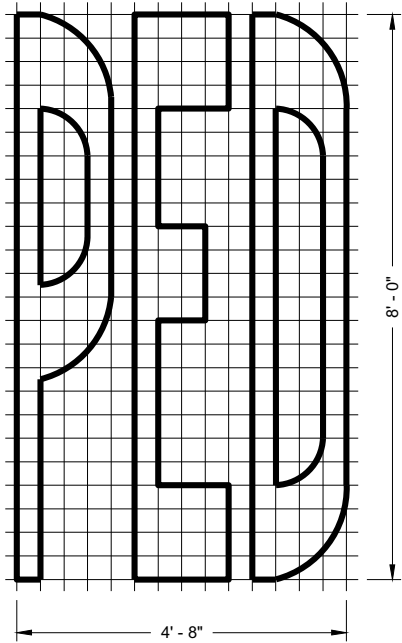
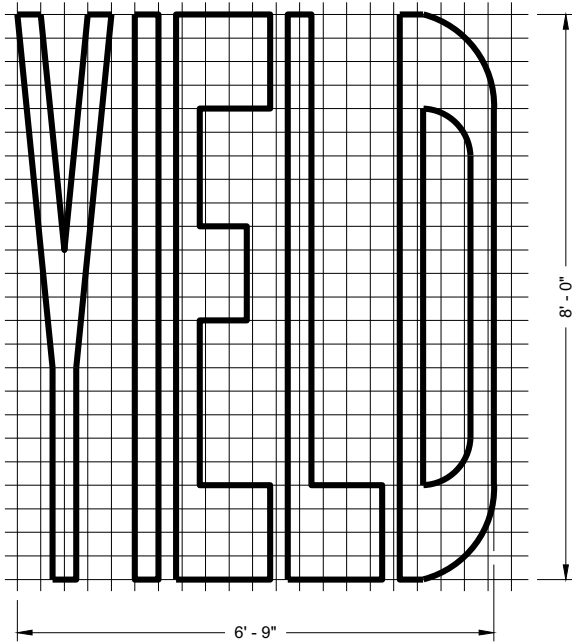
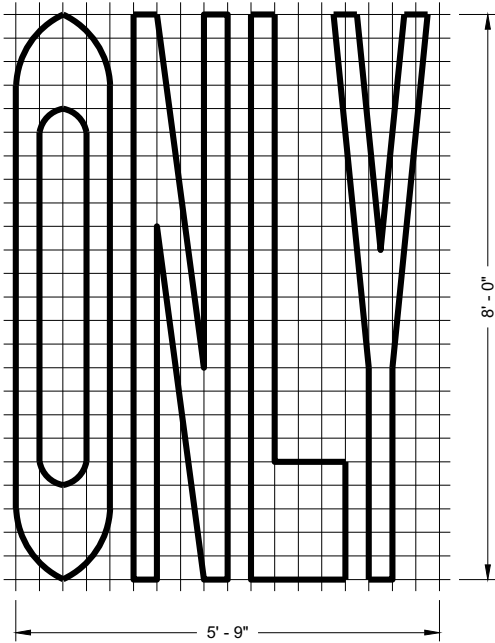
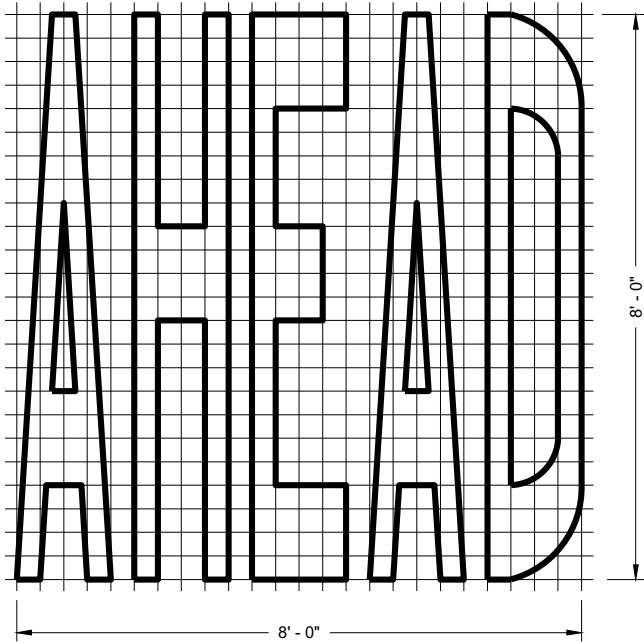
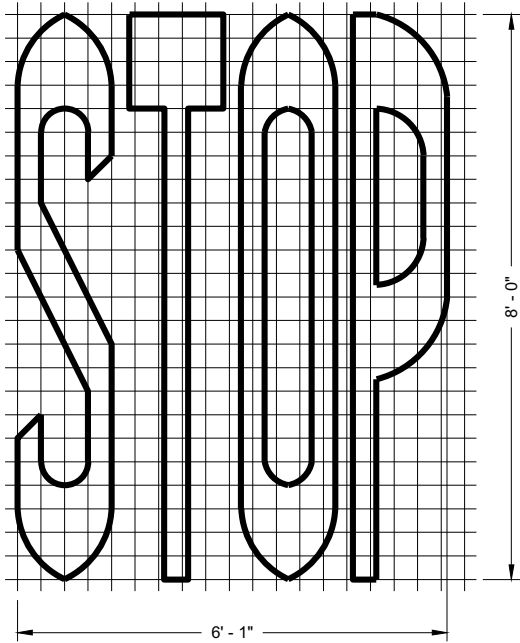
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PAVEMENT MARKING SYMBOLS

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

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

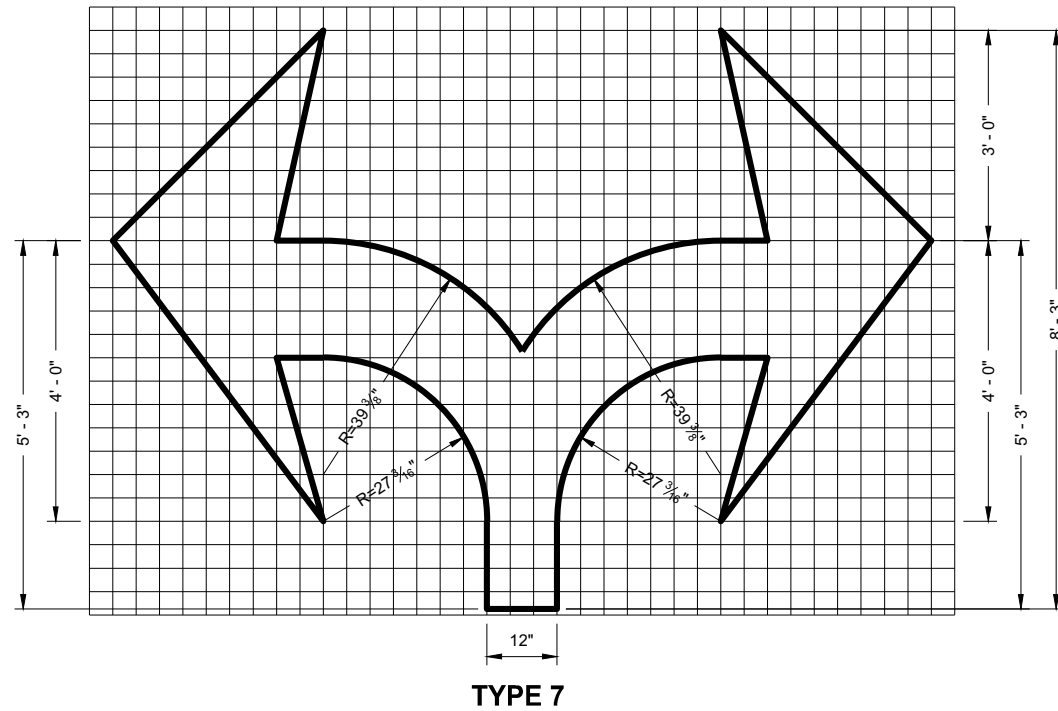
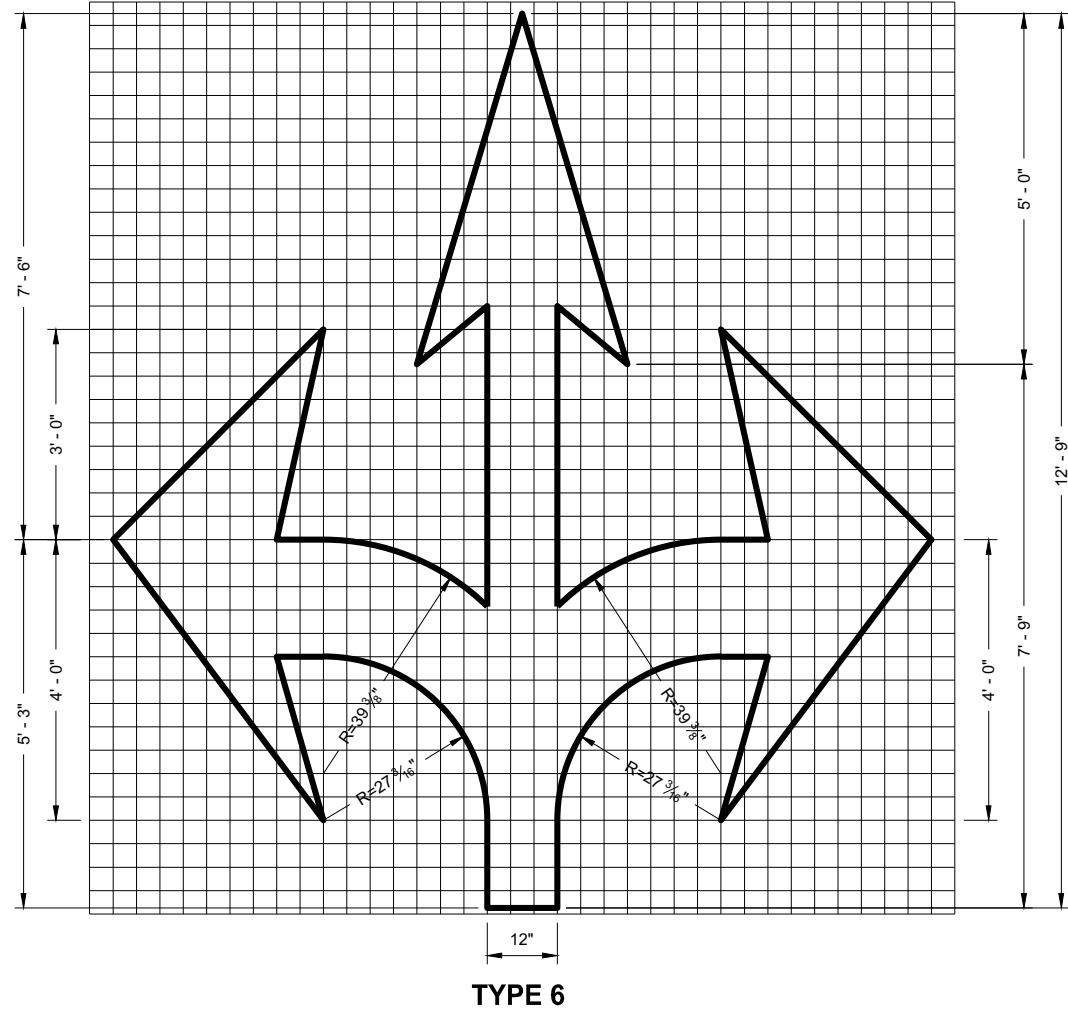
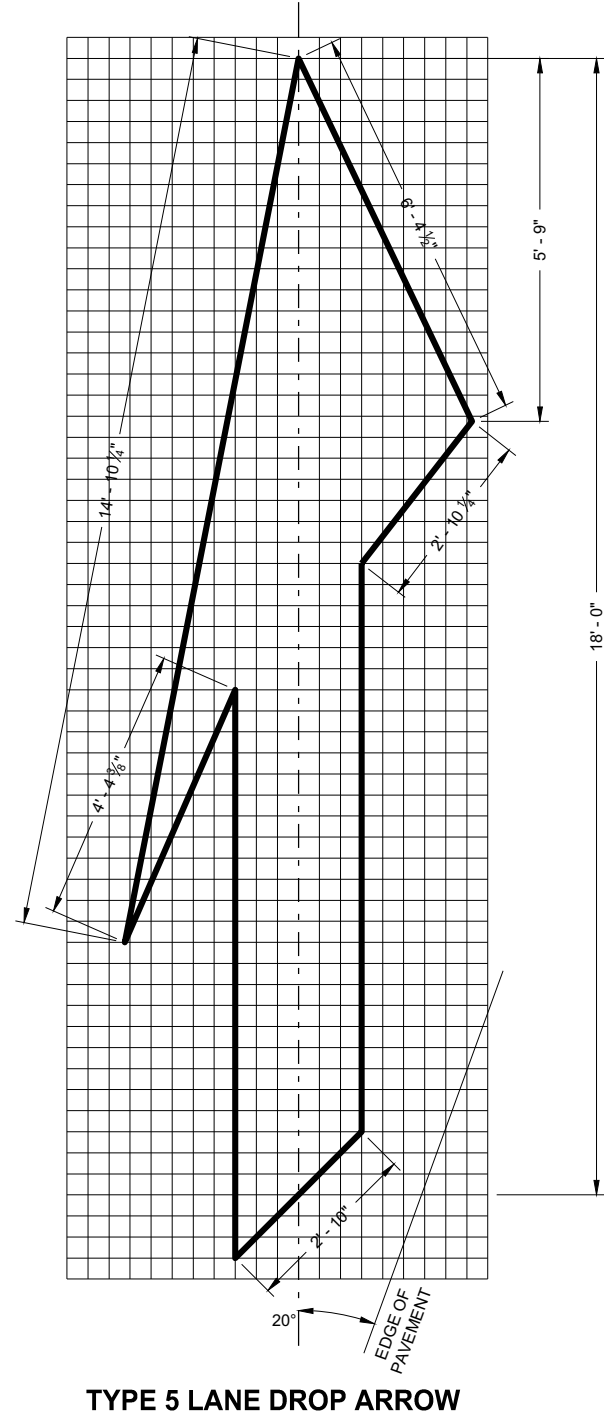
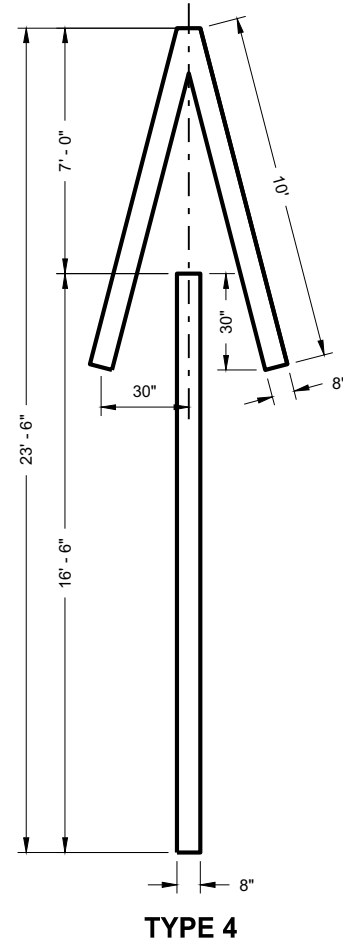
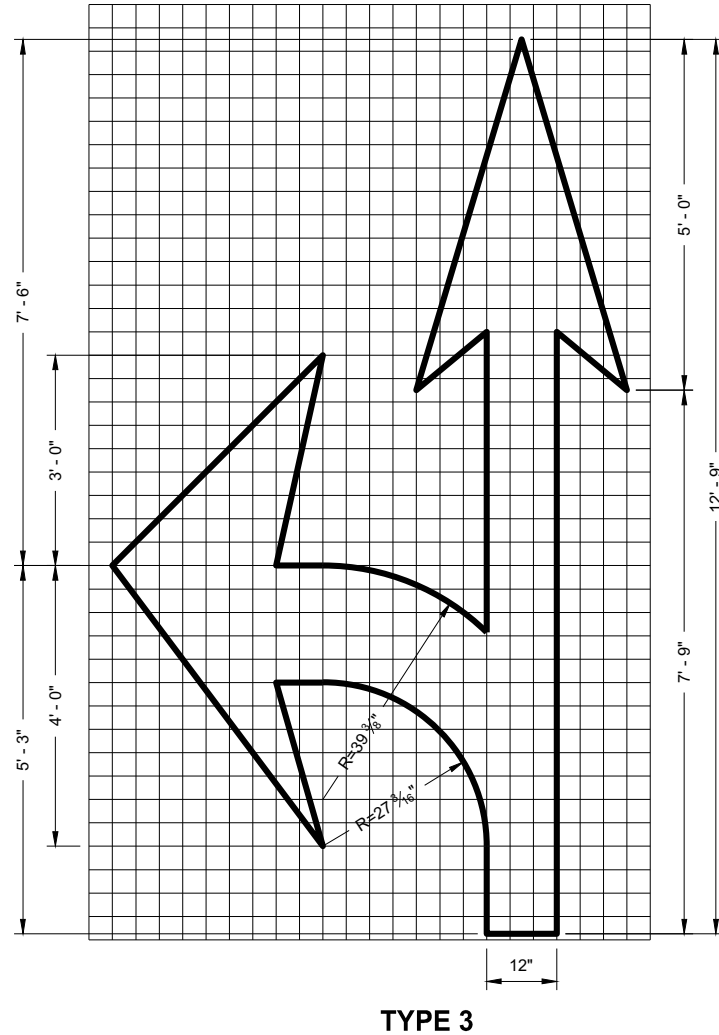
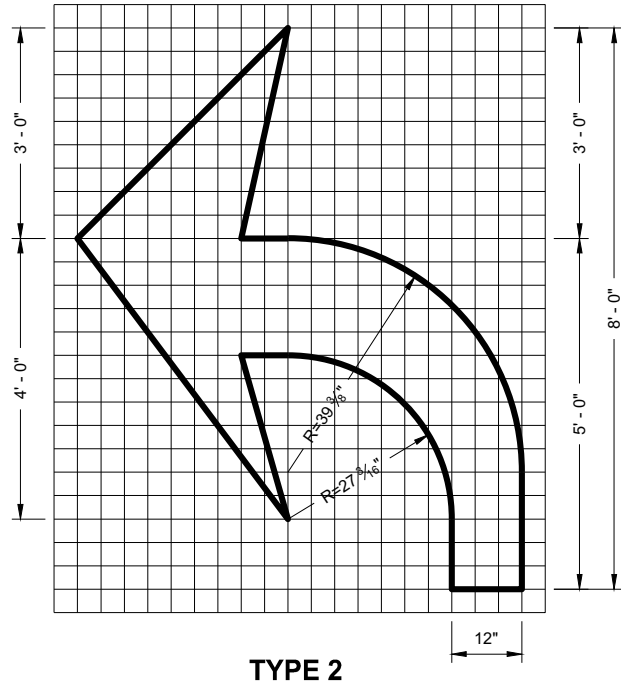
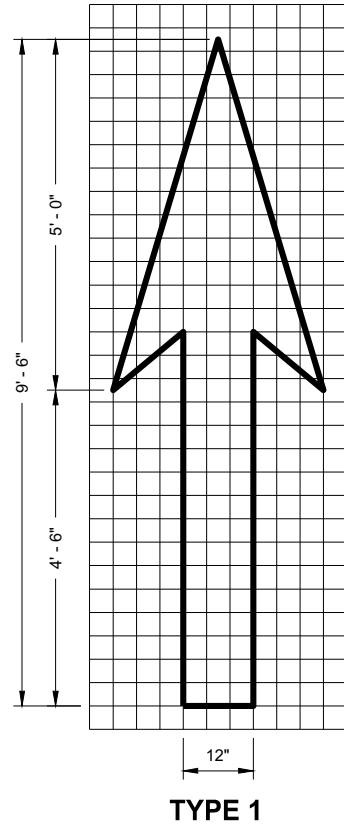
PAVEMENT MARKING WORDS

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.

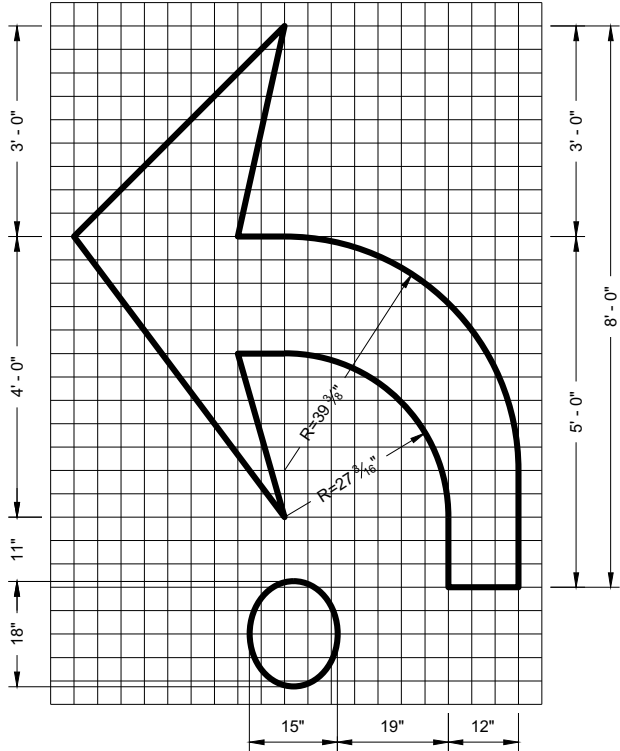
PAVEMENT MARKING ARROWS

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

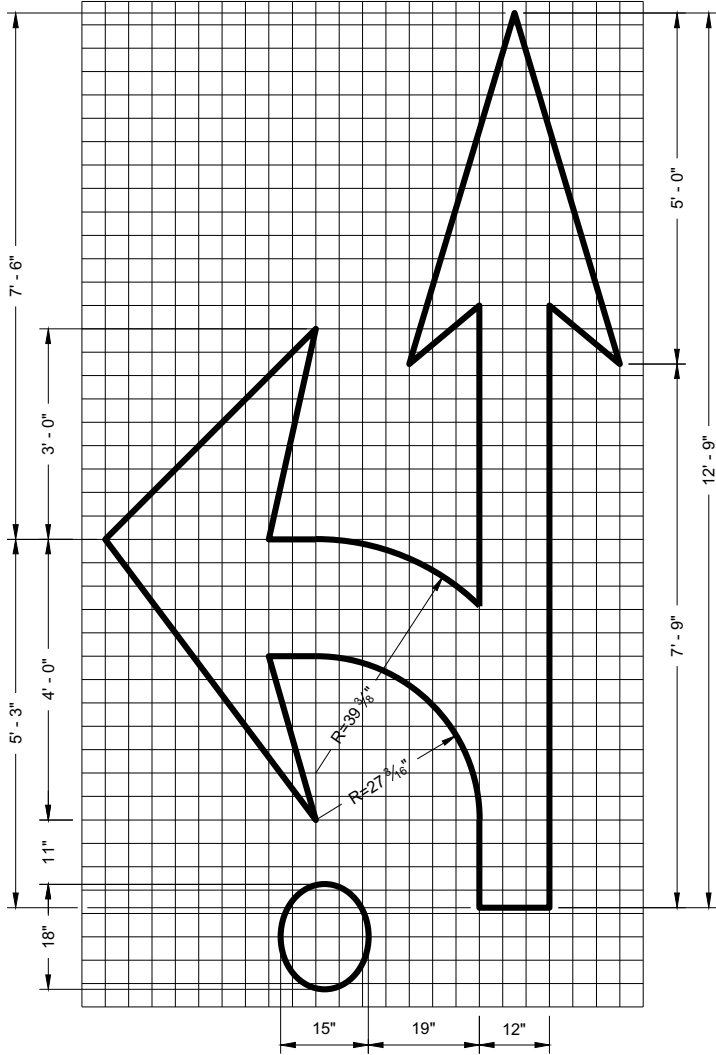
APPROVED
November 2019
DATE
/S/ Matthew Rauch
STATE SIGNING AND MARKING
ENGINEER
FHWA

GENERAL NOTES

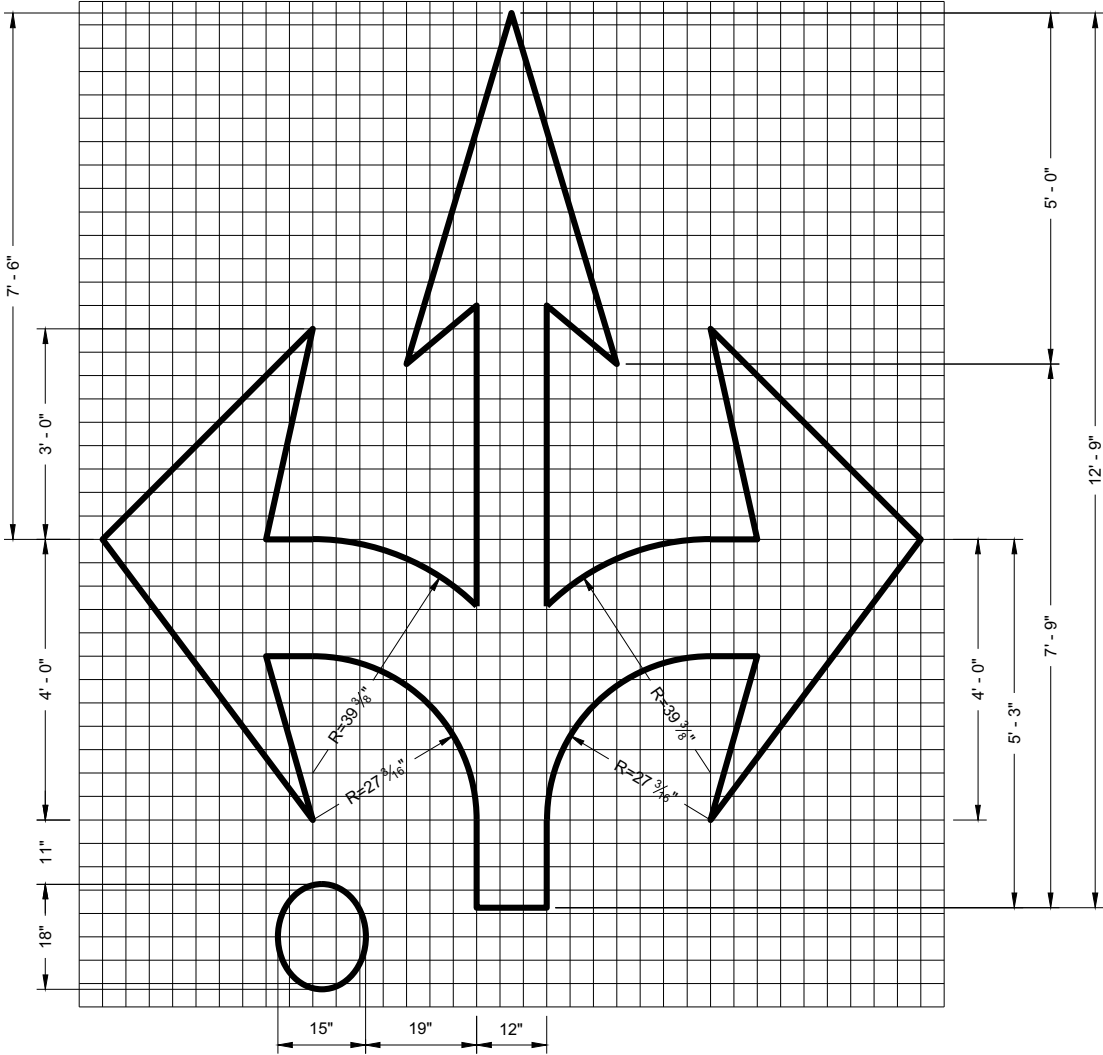
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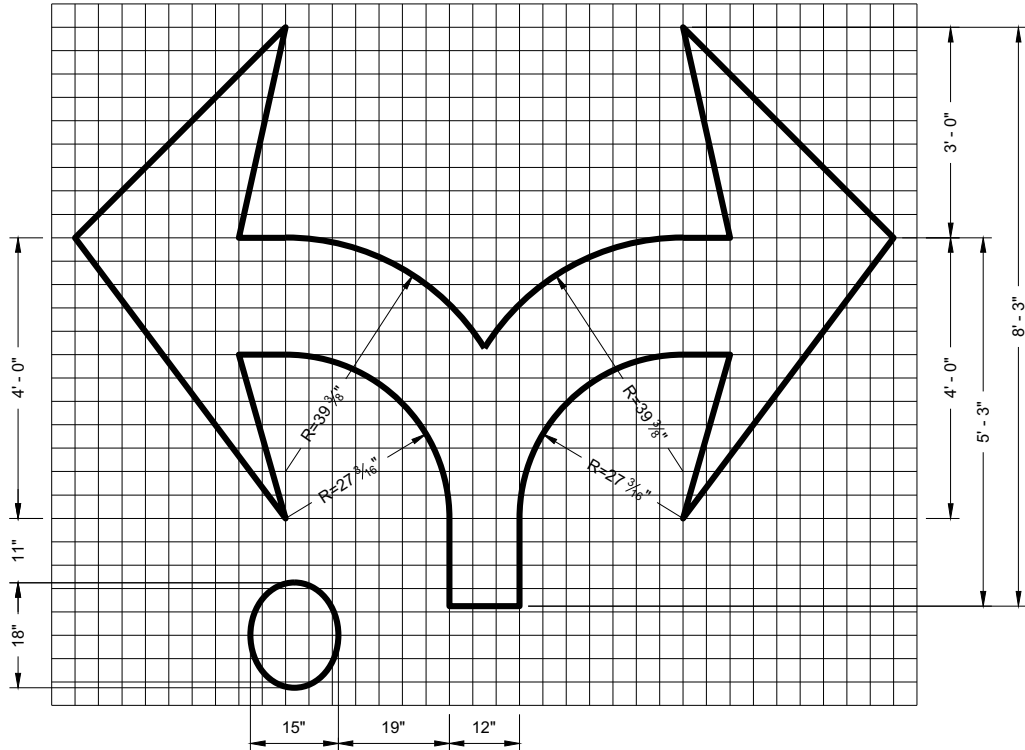
TYPE 2R



TYPE 3R



TYPE 6R



TYPE 7R

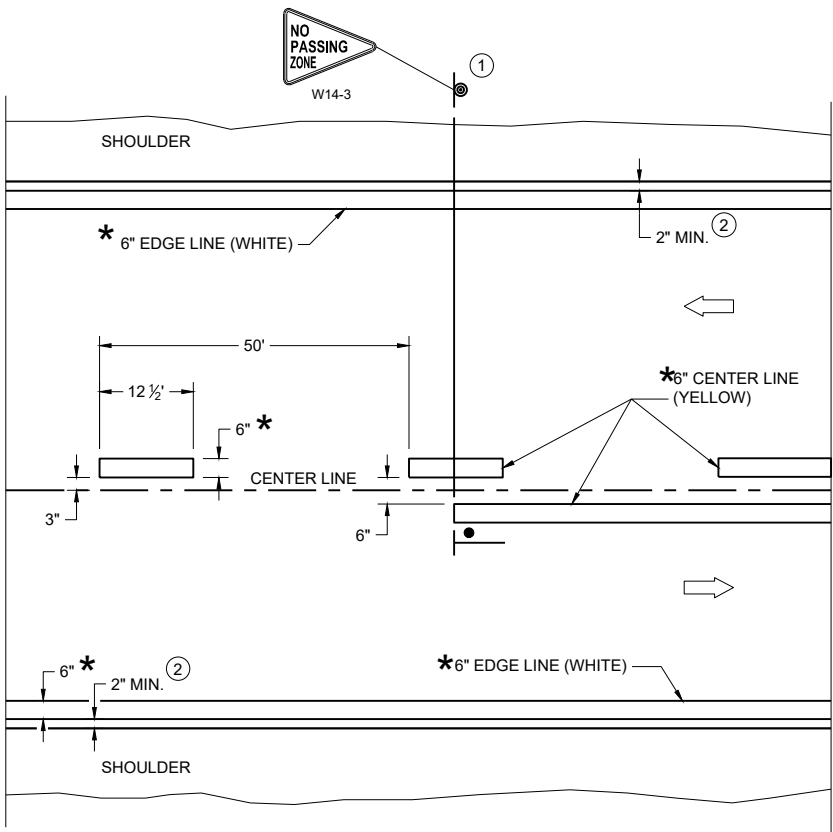
ROUNABOUT
MARKING ARROWS

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

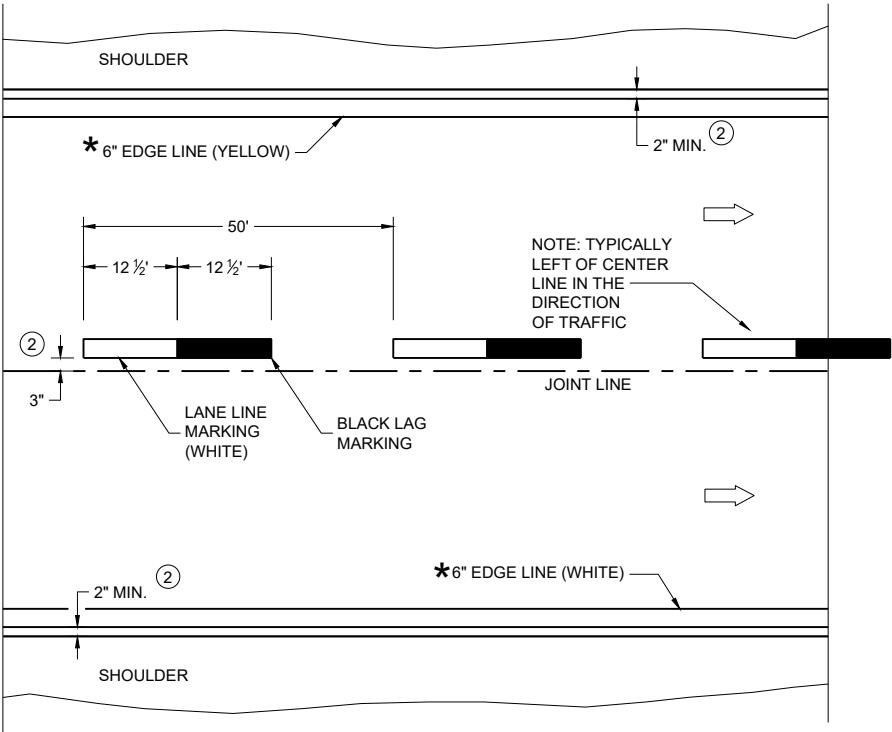
APPROVED
November 2019
DATE

/S/ Matthew Rauch
STATE SIGNING AND MARKING
ENGINEER

FHWA



TWO WAY TRAFFIC



ONE WAY TRAFFIC

PERMANENT PAVEMENT MARKING

* CONFIRM MARKING LINE WIDTH WITH THE MISCELLANEOUS QUANTITIES

GENERAL NOTES

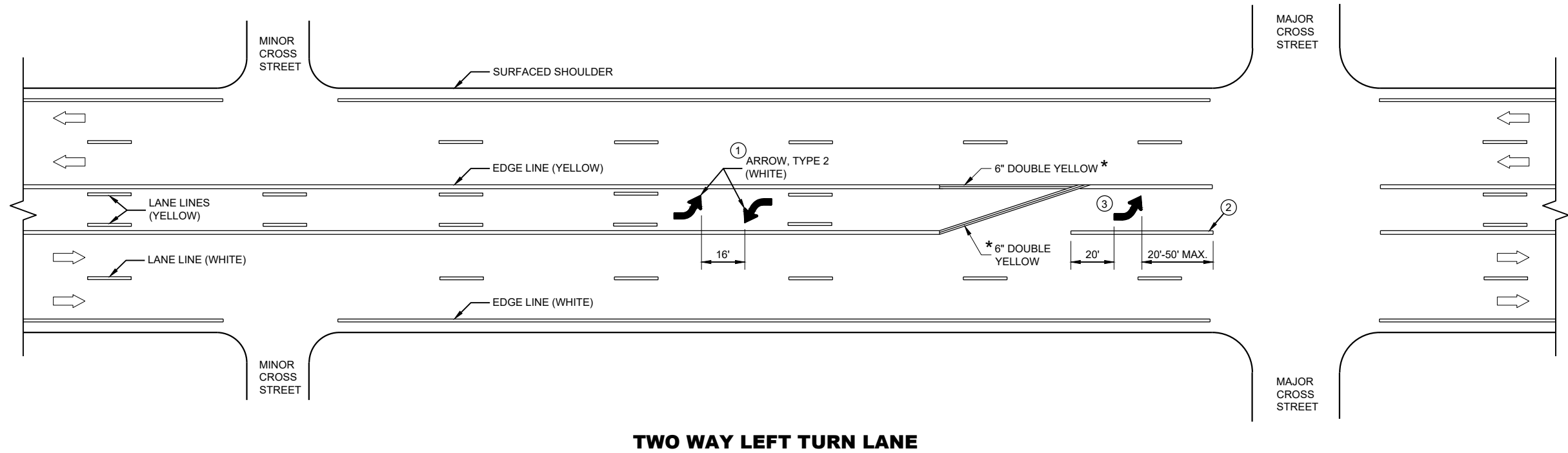
DETAILS OF CONSTRUCTION NOT SHOWN ON THIS DRAWING SHALL CONFORM TO STANDARD SPECIFICATIONS AND SPECIAL PROVISIONS.

- ① LOCATE THE NO PASSING ZONE W14-3 SIGN WITHIN 50 FEET OF THE "T" MARKING
- ② MEASURE FROM EDGE OF MARKING TO JOINT LINE. THIS DOES NOT INCLUDE SPACE NEEDED FOR GROOVING OPERATIONS.

LEGEND

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

PERMANENT LONGITUDINAL PAVEMENT MARKINGS	
STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION	
APPROVED May 2023 DATE	/S/ Jeannie Silver Statewide Pavement Marking Engineer
FHWA	



GENERAL NOTES

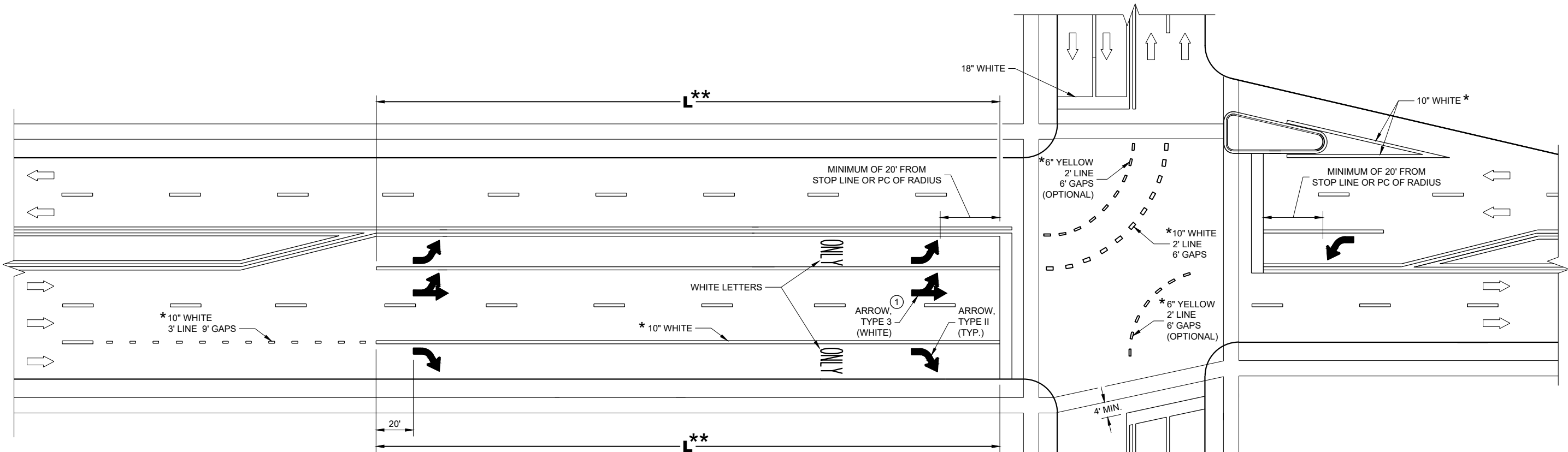
- ① A SET OF ARROWS IS REQUIRED EVERY 400 FEET OR NEAR INTERSECTIONS OR DRIVEWAYS WITH TURNING TRAFFIC.
- ② 10" WHITE
- ③ TURN BAY LENGTH OF LESS THAN 48' DOES NOT REQUIRE PAVEMENT ARROWS OR TEXT.

➡ DIRECTION OF TRAFFIC

* CONFIRM MARKING LINE WIDTH WITH THE MISCELLANEOUS QUANTITIES

**PAVEMENT MARKING
(TURN LANES)**

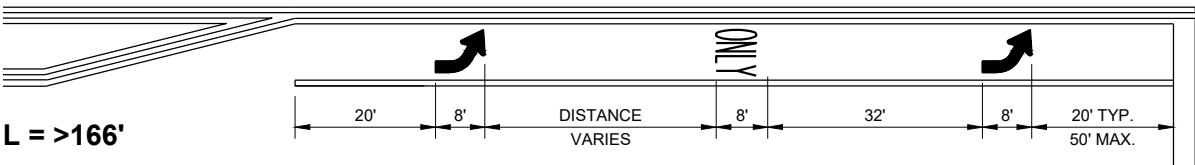
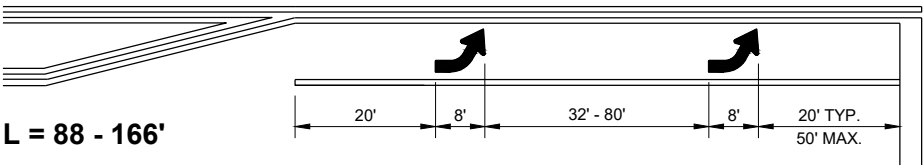
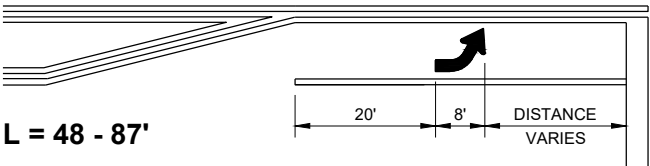
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION



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

TURN LANE OPTIONS

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



GENERAL NOTES

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

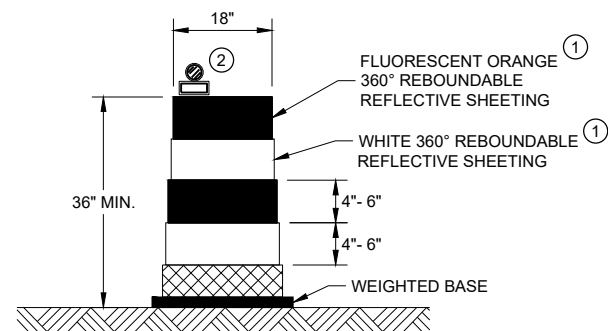
→ DIRECTION OF TRAFFIC

L = LENGTH OF TURN BAY

* CONFIRM MARKING LINE WIDTH WITH THE MISCELLANEOUS QUANTITIES

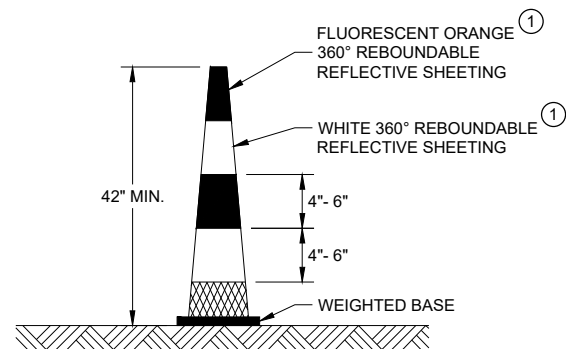
PAVEMENT MARKING
(TURN LANES)

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION



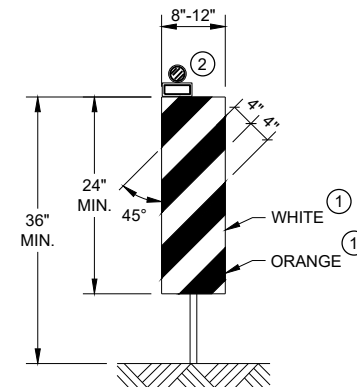
DRUM

BALLAST WIDTHS
RANGE FROM 24"-36"



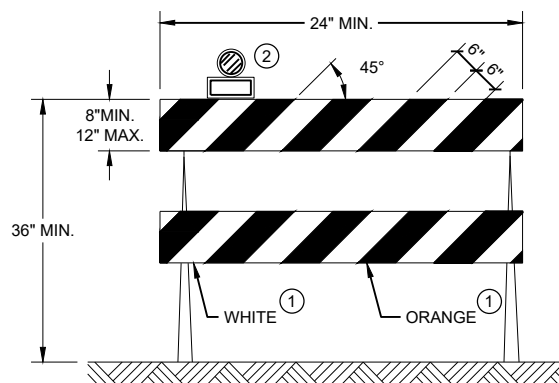
42" CONE

DO NOT USE IN TAPERS
½ SPACING OF DRUMS
BALLAST WIDTHS
RANGE FROM 14"-20"



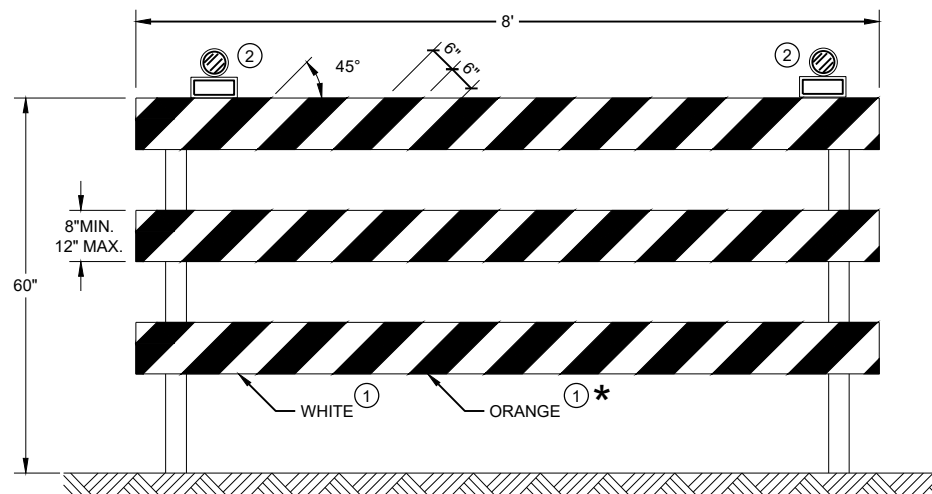
VERTICAL PANEL

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



TYPE II BARRICADE

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



TYPE III BARRICADE

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

* IF USED FOR A PERMANENT APPLICATION USE RED SHEETING.

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 2022 /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

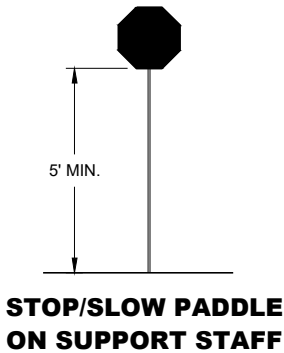
FLAGGERS SHALL BE IN SIGHT OF EACH OTHER OR IN DIRECT COMMUNICATION AT ALL TIMES. THEY SHALL BE EQUIPPED WITH STOP/SLOW PADDLES FASTENED ON SUPPORT STAFFS. WHEN THE FLAGGING OPERATION IS NOT IN EFFECT REMOVE TEMPORARY PORTABLE RUMBLE STRIPS PRIOR TO COVERING OR REMOVING ALL ADVANCE SIGNING.

- ① FOR MOVING WORK OPERATIONS, POST ADDITIONAL W20-7A FLAGGER SIGNS AT APPROXIMATELY 3,500' INTERVALS IN THE MOVING WORK OPERATION OR AS APPROVED BY THE ENGINEER.
- ② SIGN NOT REQUIRED IF FLAGGING OPERATION OCCURS WITHIN A SIGNED ROAD WORK ZONE AREA.

WHEN THE DISTANCE BETWEEN FLAGGERS EXCEEDS 2 MILES, A PILOT CAR IS REQUIRED. WHEN CURVES REDUCE SIGHT DISTANCE BELOW 400', A PILOT CAR IS REQUIRED.

TEMPORARY PORTABLE RUMBLE STRIPS

- UTILIZE TEMPORARY PORTABLE RUMBLE STRIPS ON ALL FLAGGING OPERATIONS.
- ③ EACH TEMPORARY PORTABLE RUMBLE STRIP ARRAY CONSISTS OF THREE RUMBLE STRIPS PLACED TRANSVERSE ACROSS THE LANE AT THE LOCATIONS SHOWN. WITHIN EACH ARRAY, SPACING BETWEEN RUMBLE STRIPS SHALL BE 15 FEET ON CENTER
- ONLY USE TEMPORARY PORTABLE RUMBLE STRIPS FROM THE APPROVED PRODUCTS LIST.
- INSTALL TEMPORARY RUMBLE STRIPS PER MANUFACTURER'S RECOMMENDATIONS.
- PLACE ADVANCE SIGNING PRIOR TO INSTALLING TEMPORARY RUMBLE STRIPS.
- DO NOT INSTALL TEMPORARY PORTABLE RUMBLE STRIPS ON GRAVEL, MILLED SURFACES, OR ASPHALT THAT HAS BEEN PAVED LESS THAN 12 HOURS.

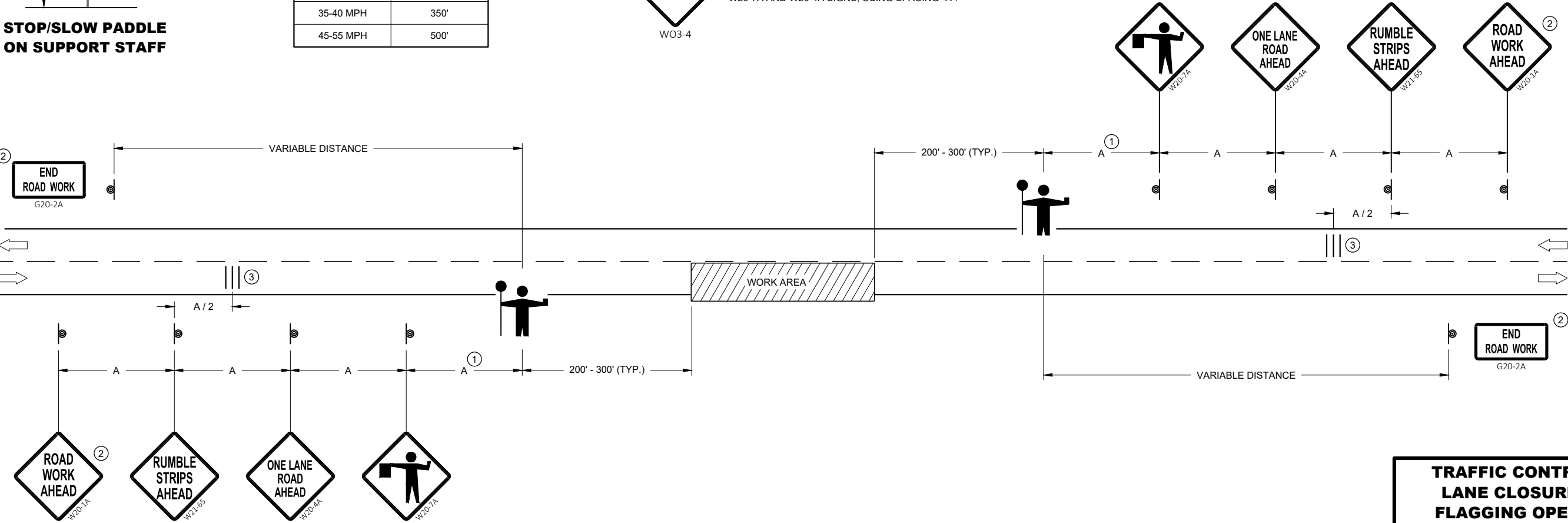


SIGN AND TEMPORARY RUMBLE STRIP ARRAY SPACING TABLE

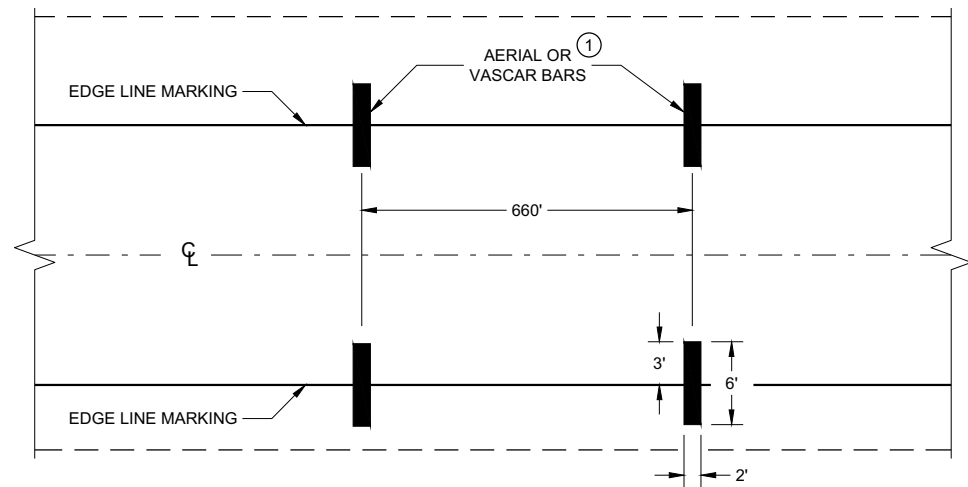
SPEED LIMIT	SPACING "A"
25-30 MPH	200'
35-40 MPH	350'
45-55 MPH	500'



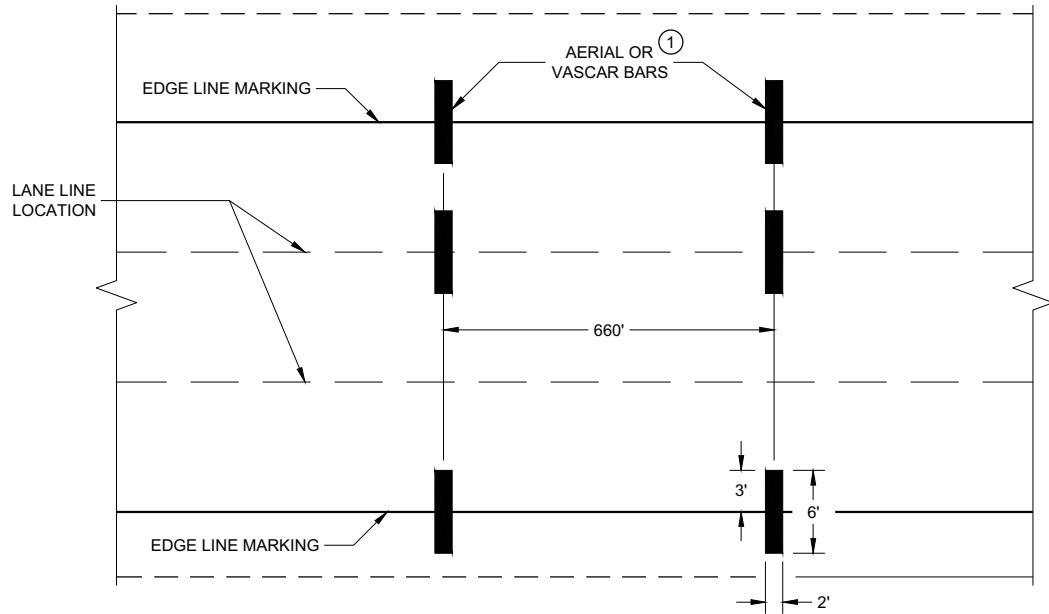
USE OF W03-4 SIGN IS OPTIONAL. WHEN USED, THIS SIGN SHALL BE LOCATED BETWEEN THE W20-7A AND W20-4A SIGNS, USING SPACING "A".



TRAFFIC CONTROL FOR LANE CLOSURE WITH FLAGGING OPERATION	
STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION	
APPROVED May 2022 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.

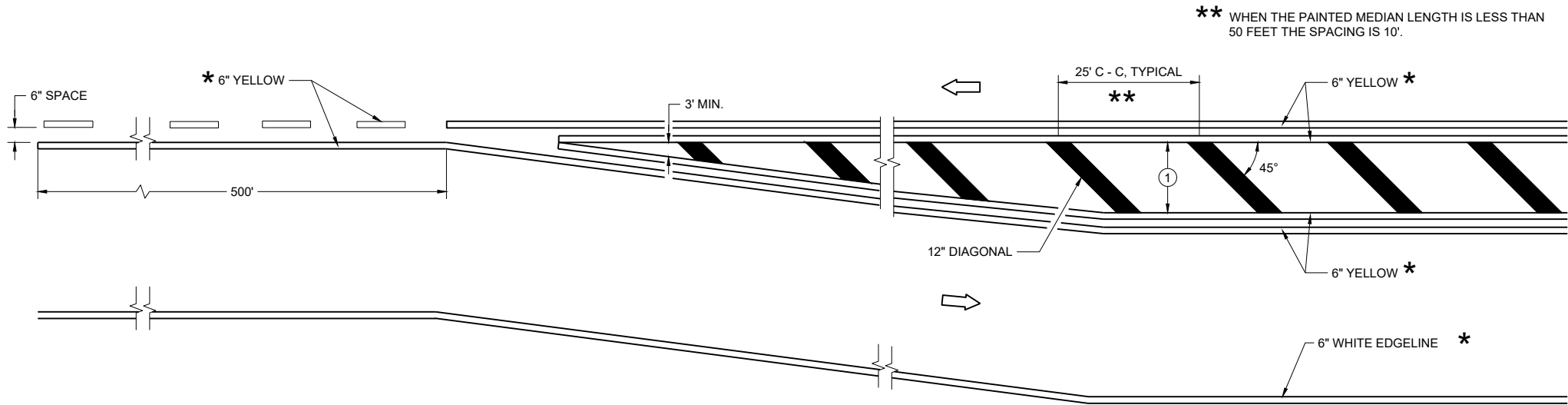
AERIAL ENFORCEMENT BARS
PAVEMENT MARKING DETAILS

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

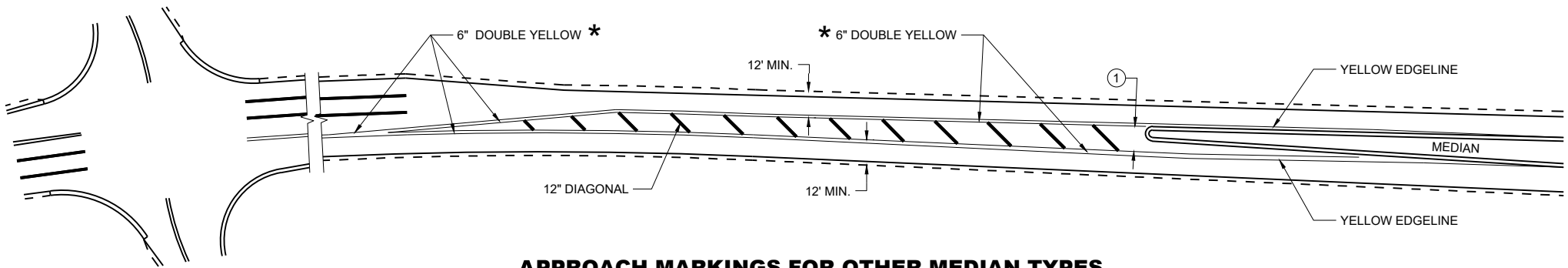
APPROVED
February 2021
DATE

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

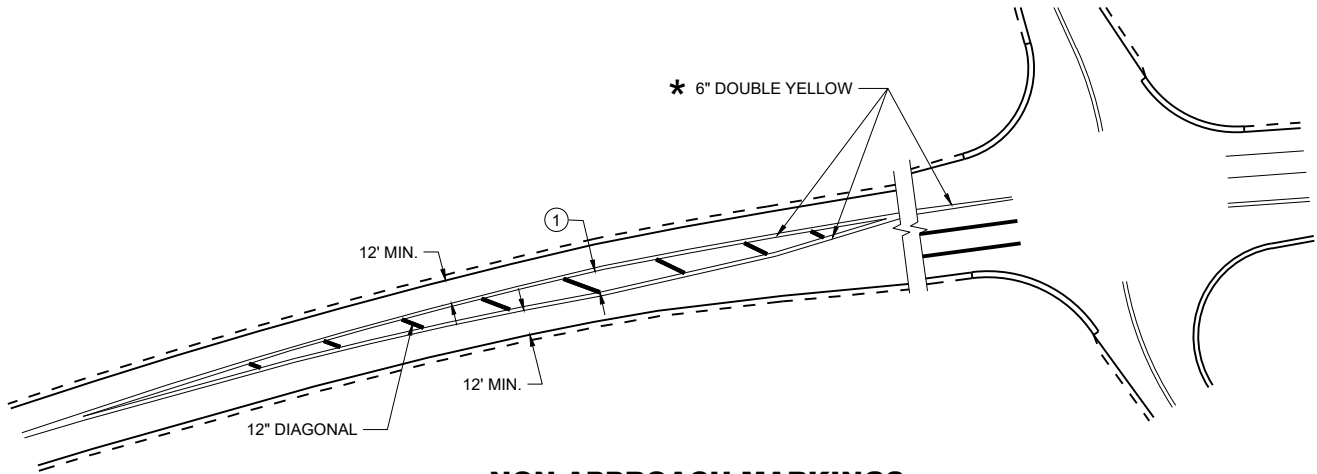
FHWA



MEDIAN ISLAND DETAIL



APPROACH MARKINGS FOR OTHER MEDIAN TYPES



NON-APPROACH MARKINGS

GENERAL NOTES

- ① DIAGONALS ARE OPTIONAL WHEN PAINTED ISLAND IS LESS THAN 6 FEET AT THE WIDEST POINT. OMIT DIAGONALS IF WIDTH IS LESS THAN 4 FEET.

➡ DIRECTION OF TRAVEL

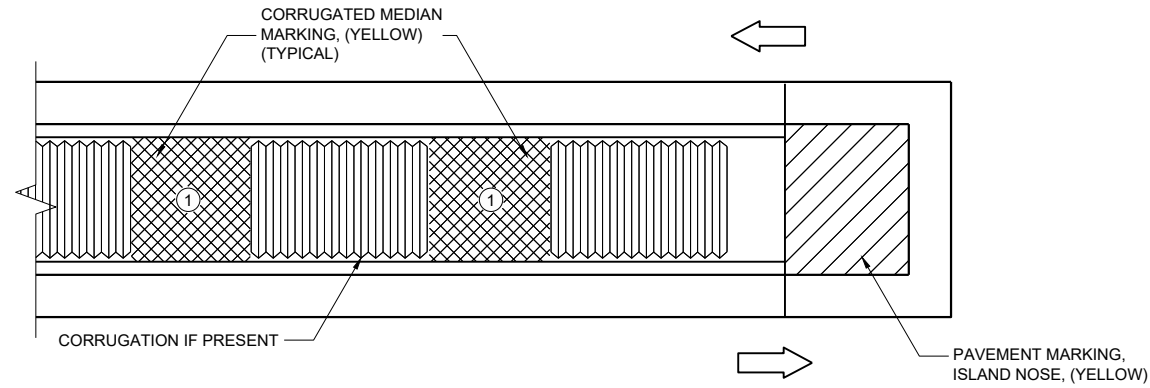
* CONFIRM MARKING LINE WIDTH WITH THE MISCELLANEOUS QUANTITIES

MEDIAN ISLAND
PAVEMENT MARKINGS

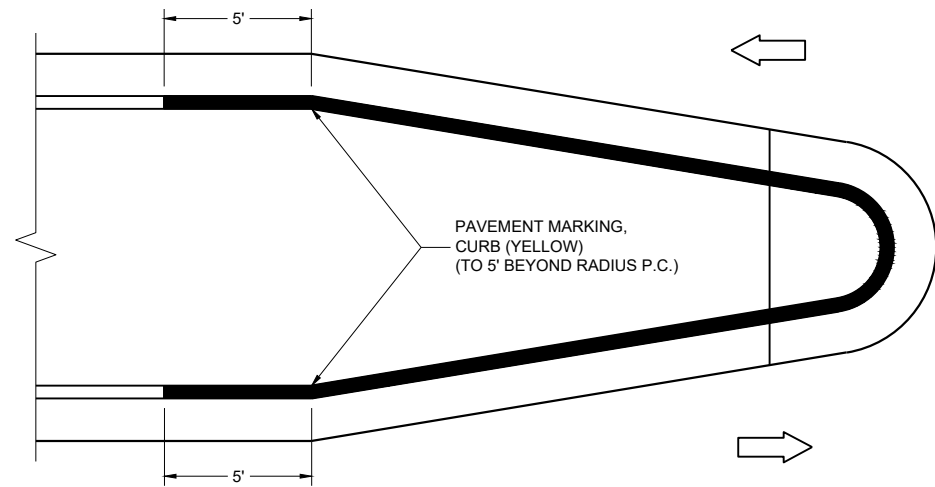
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
August 2024 /S/ Jeannie Silver
DATE Statewide Pavement Marking Engineer

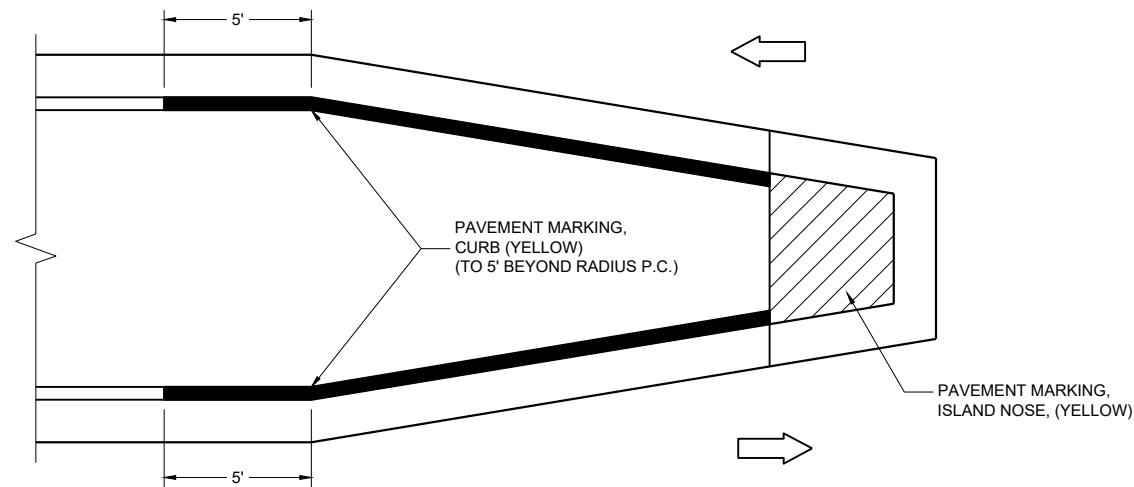
FHWA



MEDIAN ISLAND WITH SQUARE BLUNT NOSE



MEDIAN ISLAND WITH ROUND BLUNT NOSE



MEDIAN ISLAND WITH SLOPED NOSE

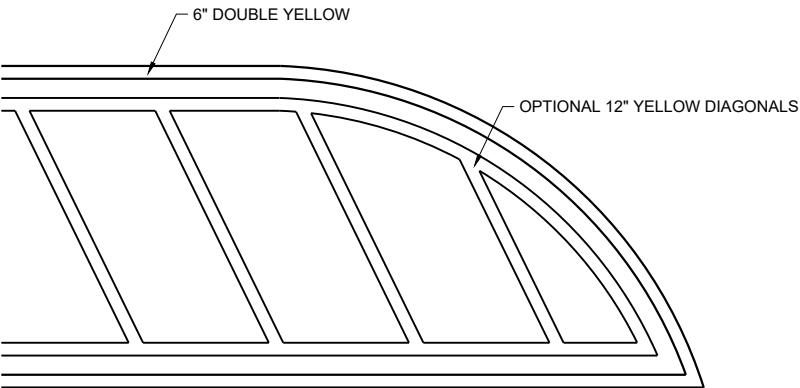
**TYPICAL PLACEMENT OF
PAVEMENT MARKING ON MEDIAN ISLANDS**

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.

① APPLY PAVEMENT MARKING TO THE FLAT PORTION OF CORRUGATED MEDIAN.

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



FLUSH MEDIAN ISLAND NOSE

**PAVEMENT MARKINGS,
MEDIAN ISLAND NOSE**

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
August 2024 /S/ Jeannie Silver
DATE Statewide Pavement Marking 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

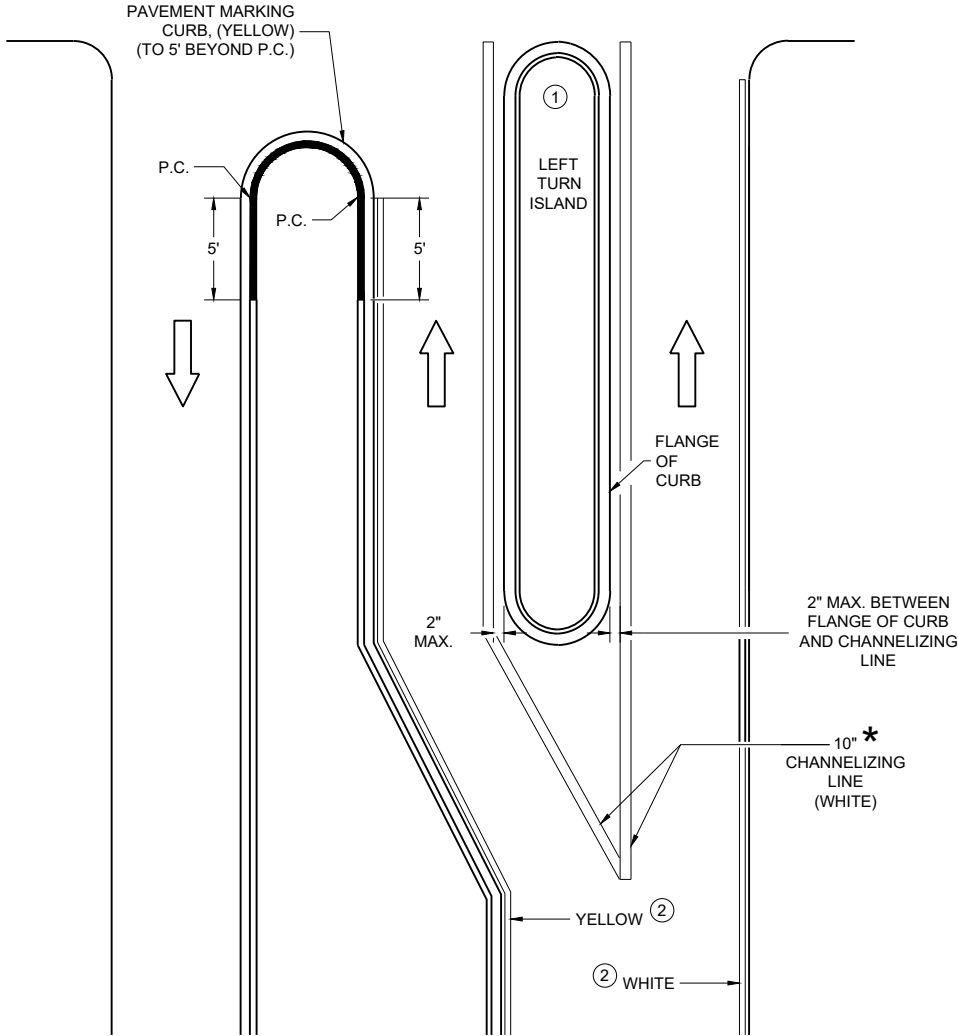
*CONFIRM MARKING LINE WIDTH WITH THE MISCELLANEOUS QUANTITIES

GENERAL NOTES

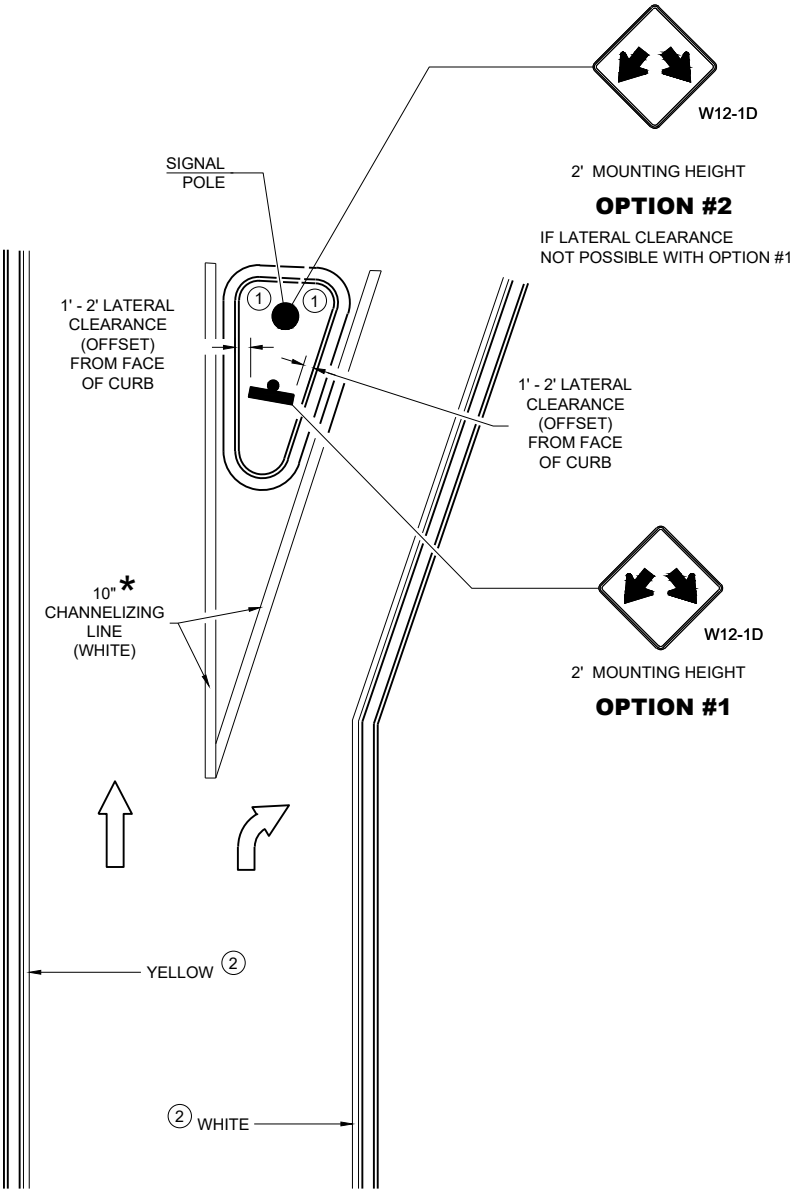
APPLIES TO ISLANDS AT LEFT TURNS AT ONE WAY ROADWAYS AS WELL.
SEE MISCELLANEOUS QUANTITIES FOR SIGN SIZE.

- ① MARK CURB NOSES YELLOW.
- ② MARK ACCORDING TO TABLE.
- ③ CHEVRON MAY BE OMITTED IF LESS THAN 4" WIDE

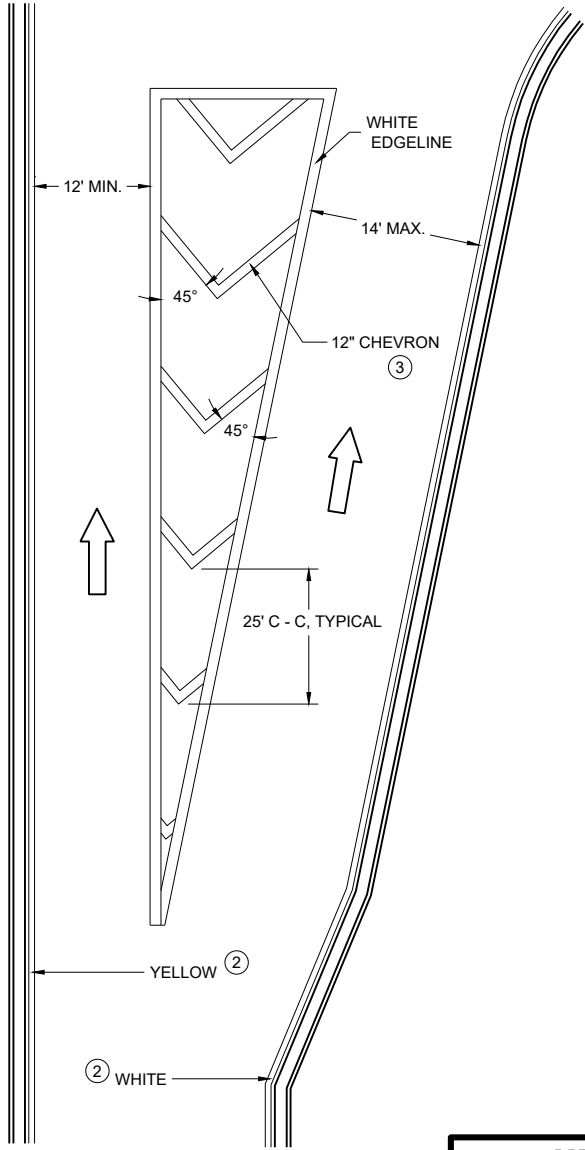
 DIRECTION OF TRAVEL



LEFT TURN & MEDIAN ISLAND



RIGHT TURN ISLAND



TURN LANE DETAIL

MEDIAN PAVEMENT MARKINGS, DOUBLE ARROW WARNING SIGN PLACEMENT

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
August 2024 /S/ Jeannie Silver
DATE Statewide Pavement Marking Engineer

FHWA

LEGEND

- V1

LEAD VEHICLE
- V2

MARKING VEHICLE
- V3

SHADOW VEHICLE
- TRUCK MOUNTED ATTENUATOR (TMA)
- SIGN ON TEMPORARY SUPPORT
- DIRECTION OF TRAFFIC

GENERAL NOTES

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

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

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

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

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

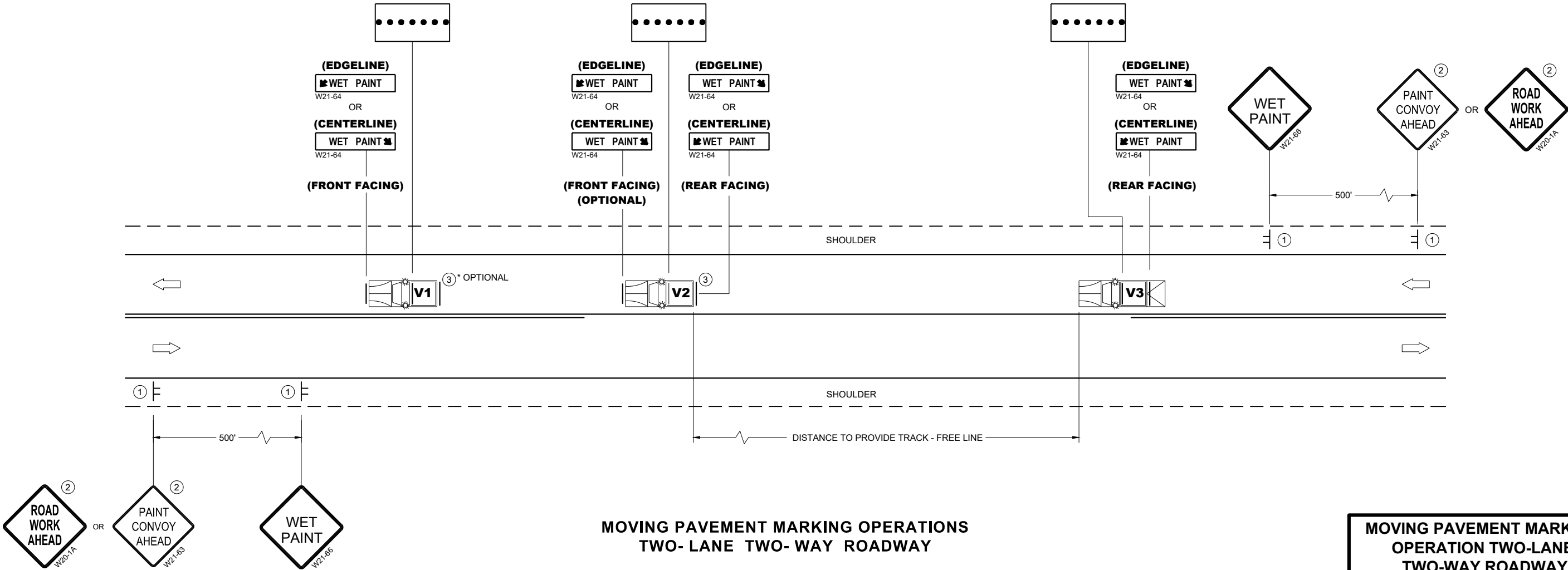
WHEN NO WORK ACTIVITY IS TAKING PLACE, REMOVE OR LAY STATIONARY SIGNS AND SUPPORTS FLAT ON THE GRADE WITH

UPRIGHTS ORIENTED PARALLEL TO AND DOWNSTREAM FROM TRAFFIC.

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

CONES SHALL BE A MINIMUM OF 28" FOR WET PAVEMENT MARKING .

- ① SIGNS SHALL BE REPEATED APPROXIMATELY EVERY THREE MILES AND AFTER EVERY MAJOR INTERSECTION.
- ② IF CONSTRUCTION WORK ZONE SIGNS ARE IN PLACE, W20-1A OR W21-63 ARE NOT REQUIRED.
- ③ V1 AND V2 CAN BE SWITCHED SO THAT THE MARKER IS THE LEAD VEHICLE.



MOVING PAVEMENT MARKING
OPERATION TWO-LANE
TWO-WAY ROADWAY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
March 2024 /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)

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.

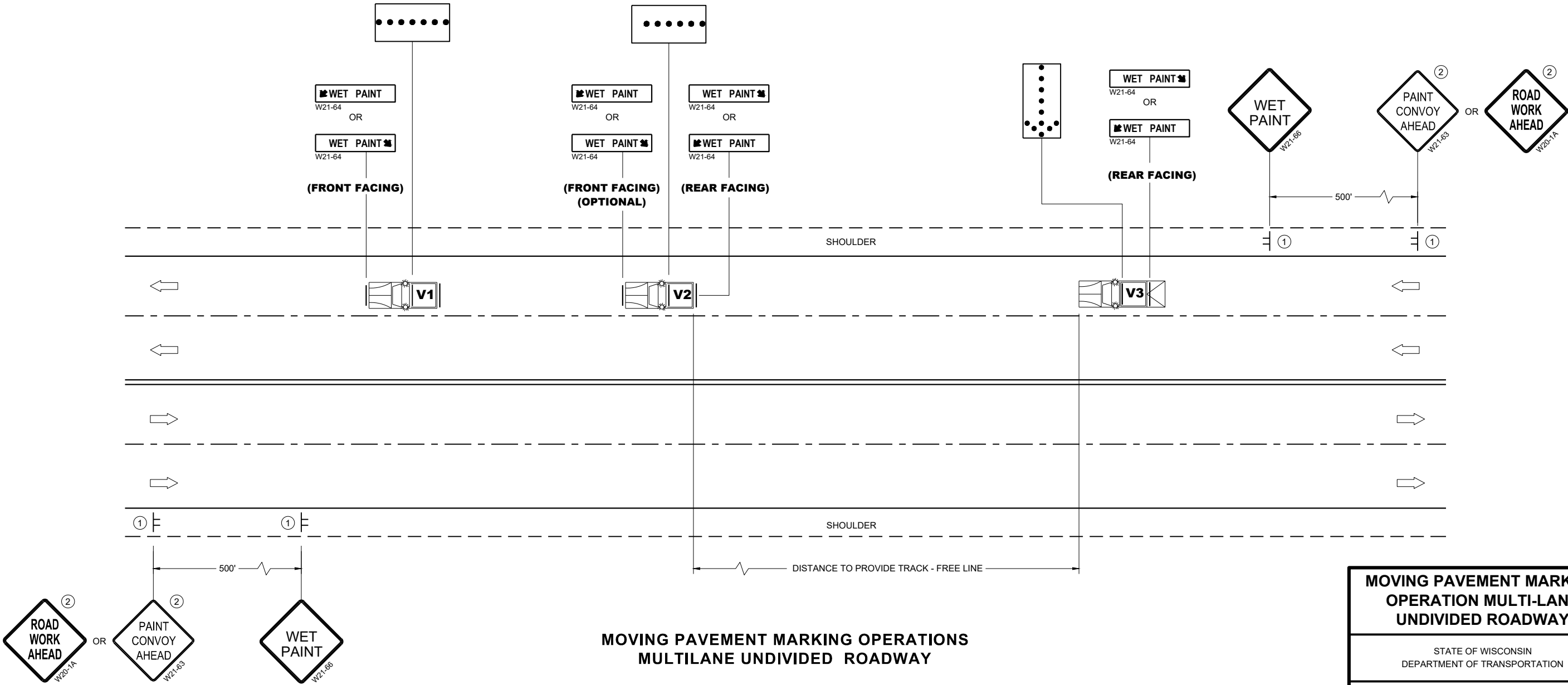
WHEN A RAMP INTERSECTS THE FACILITY ON WHICH THE WORK IS BEING PERFORMED, PROVIDE ADDITIONAL TRAFFIC CONTROLS AS SPECIFIED IN THE CONTRACT OR AS APPROVED BY THE ENGINEER.

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 28" FOR WET PAVEMENT MARKINGS.

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



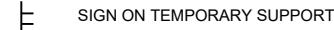
MOVING PAVEMENT MARKING
OPERATION MULTI-LANE
UNDIVIDED ROADWAY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
March 2024 /S/ Andrew Heidtke
DATE WORK ZONE ENGINEER

FHWA

V1	MARKING VEHICLE
V2	SHADOW VEHICLE
V3	TRAIL VEHICLE



 DIRECTION OF TRAFFIC



MAINLINE WORK ZONE

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

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

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

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

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

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

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

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

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

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

CONES SHALL BE A MINIMUM HEIGHT OF 28" FOR WET PAVEMENT MARKINGS

- 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.



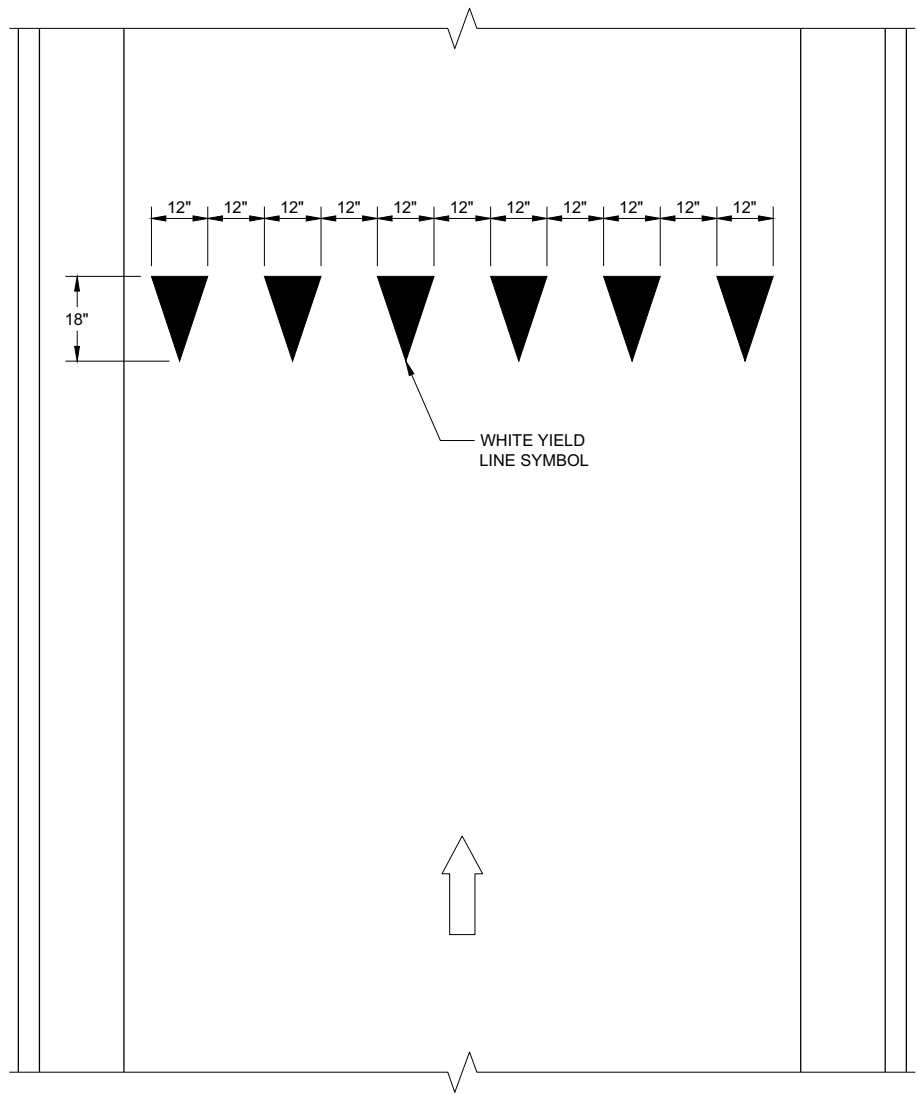
MOVING PAVEMENT MARKING OPERATIONS MULTILANE DIVIDED ROADWAY

MOVING PAVEMENT MARKING OPERATION MULTI-LANE DIVIDED ROADWAY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
March 2024
DATE

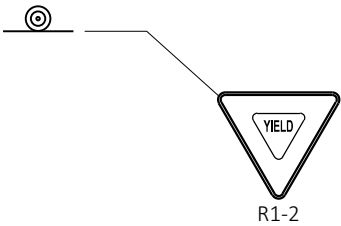
/S/ Andrew Heidtke
WORK ZONE ENGINEER



YIELD LINE

LEGEND

- SIGN ON PERMANENT SUPPORT
- DIRECTION OF TRAVEL

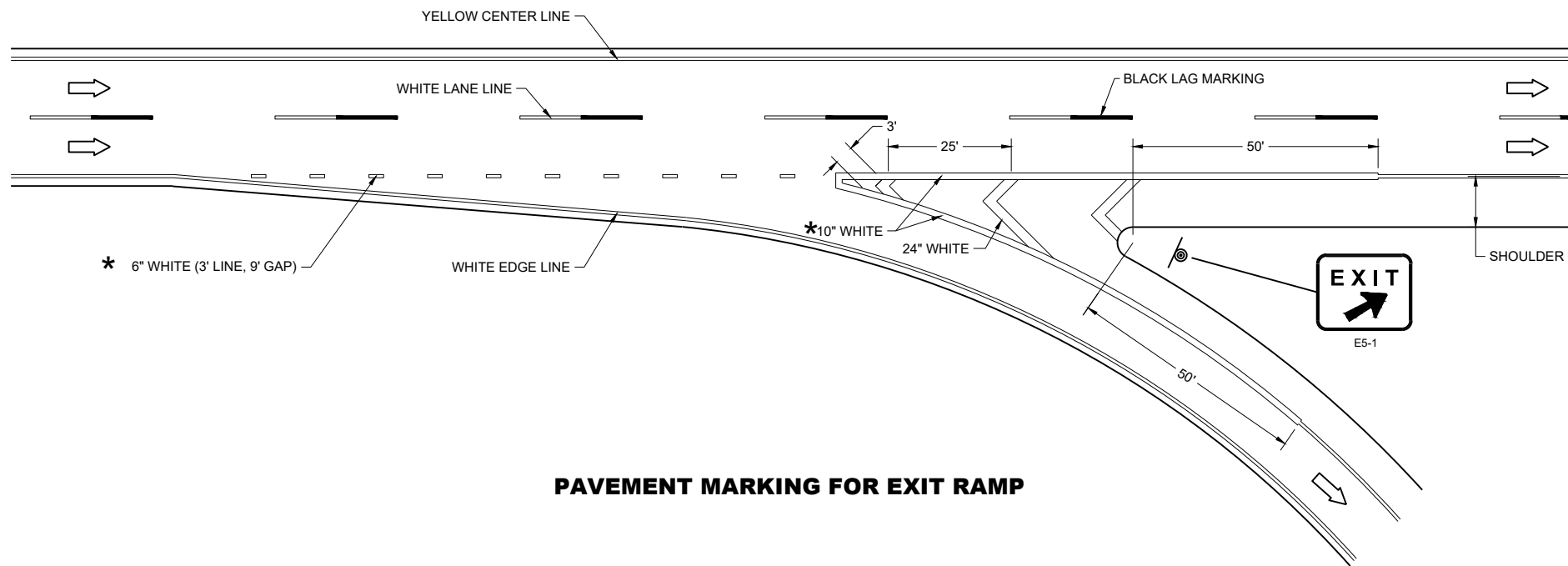


YIELD MARKINGS

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
4-81-2016 DATE /S/ Matthew R. Rauch
STATE SIGNING AND MARKING ENGINEER

FHWA



PAVEMENT MARKING FOR EXIT RAMP

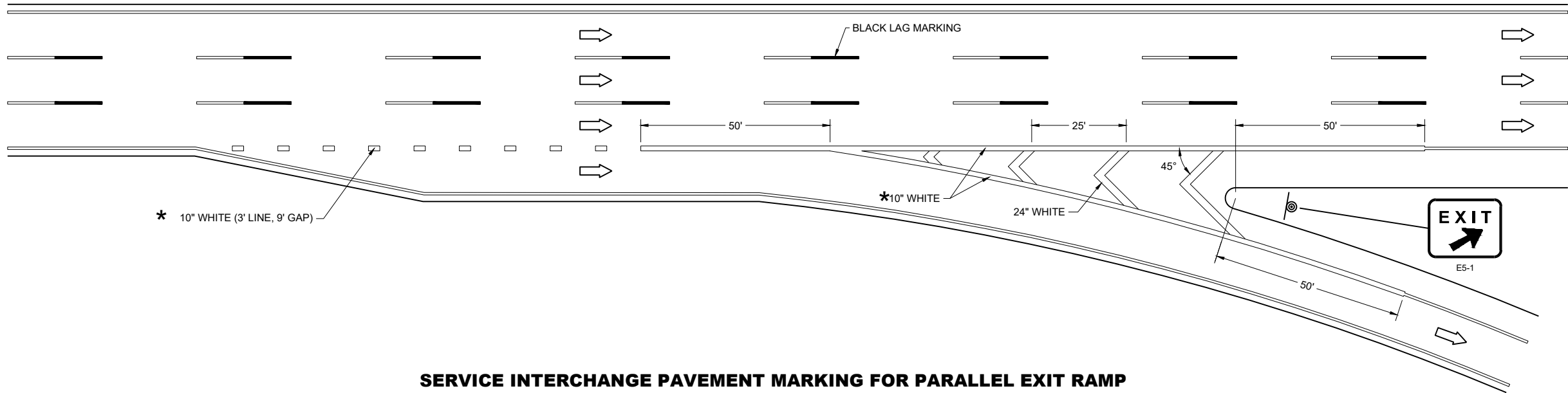
GENERAL NOTES

PLACE GROOVE 3 INCHES LEFT OF JOINT.

LEGEND

- SIGN ON PERMANENT SUPPORT
- DIRECTION OF TRAVEL

*CONFIRM MARKING LINE WIDTH WITH THE MISCELLANEOUS QUANTITIES



SERVICE INTERCHANGE PAVEMENT MARKING FOR PARALLEL EXIT RAMP

PAVEMENT MARKING,
EXIT RAMP AND
PARALLEL EXIT RAMP

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

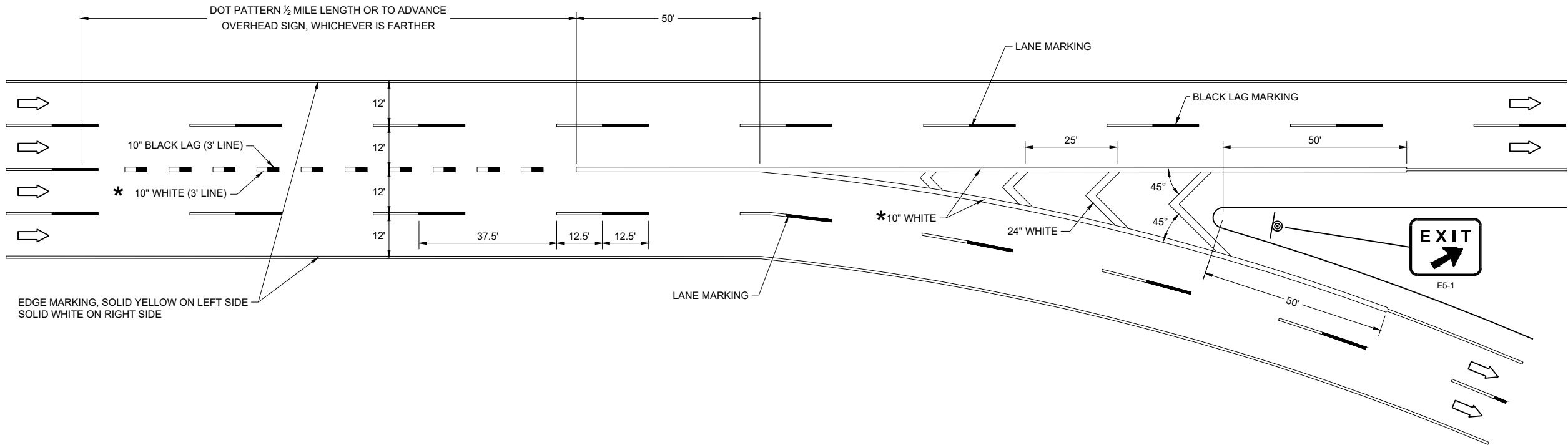
GENERAL NOTES

PLACE GROOVE 3 INCHES LEFT OF JOINT.

LEGEND

- SIGN ON PERMANENT SUPPORT
- DIRECTION OF TRAVEL

*CONFIRM MARKING LINE WIDTH WITH THE MISCELLANEOUS QUANTITIES



PAVEMENT MARKING,
MAJOR SPLIT
FREEWAY TO FREEWAY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

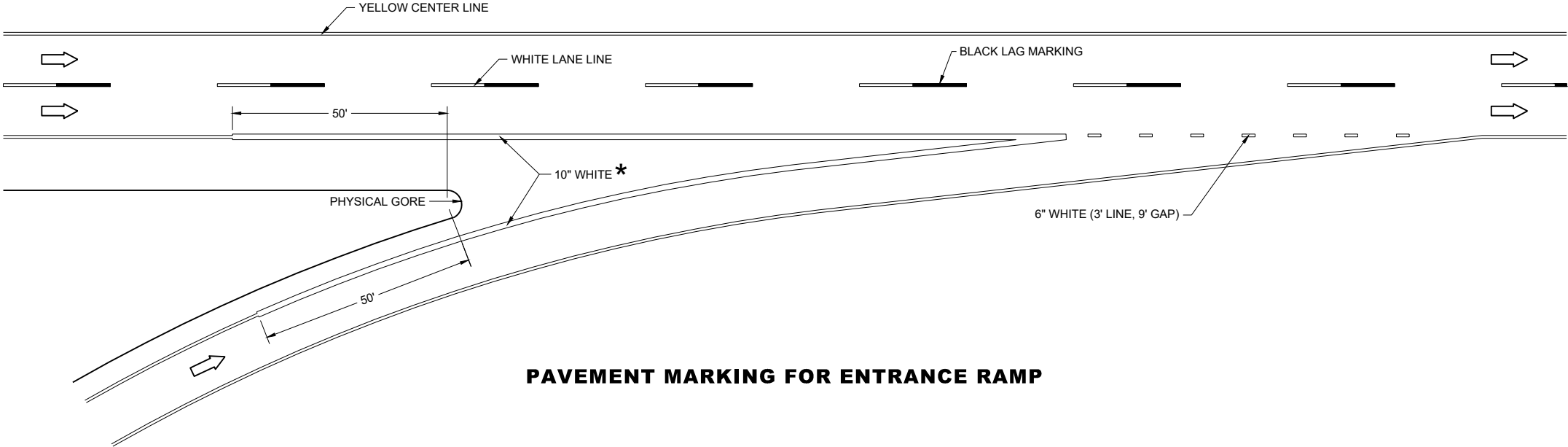
GENERAL NOTES

PLACE GROOVE 3 INCHES LEFT OF JOINT.

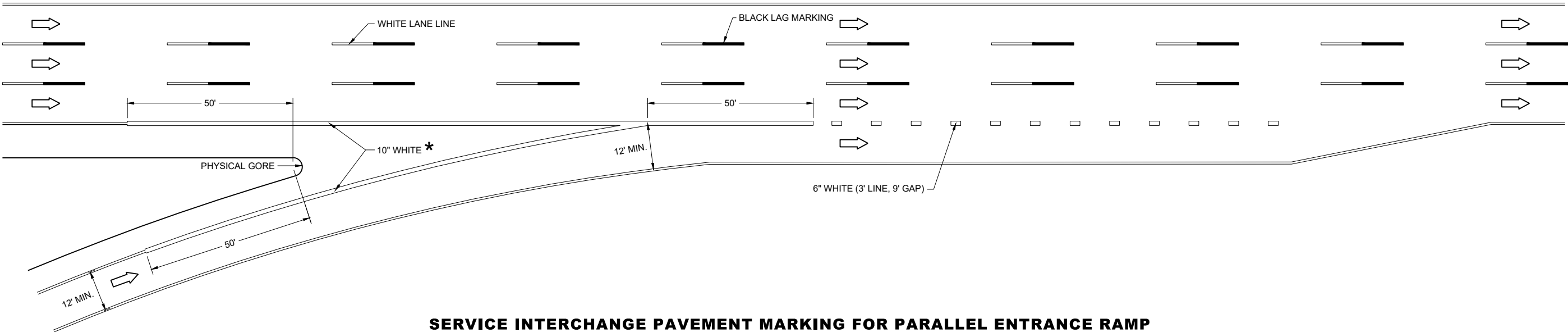
LEGEND

DIRECTION OF TRAVEL

*CONFIRM MARKING LINE WIDTH WITH THE MISCELLANEOUS QUANTITIES



PAVEMENT MARKING FOR ENTRANCE RAMP



SERVICE INTERCHANGE PAVEMENT MARKING FOR PARALLEL ENTRANCE RAMP

PAVEMENT MARKING,
ENTRANCE RAMP AND
PARALLEL ENTRANCE RAMP

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

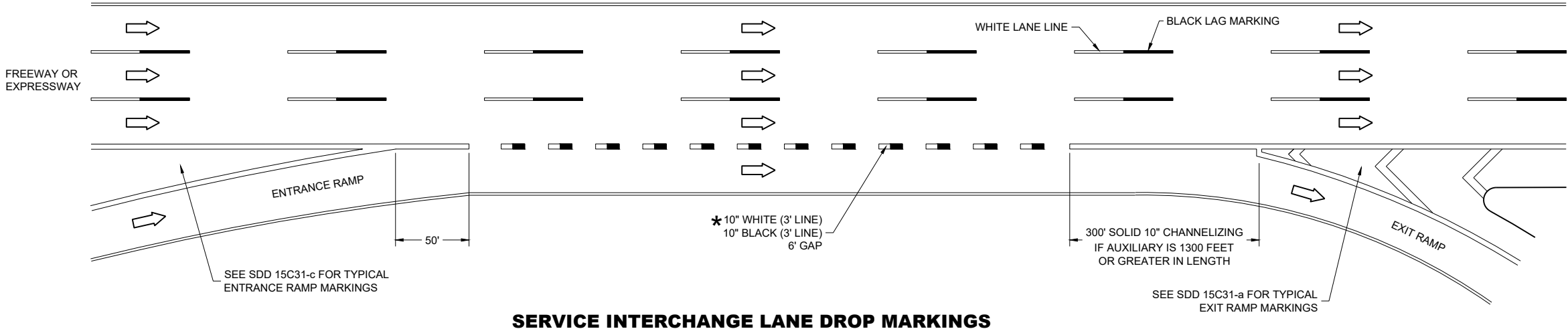
LEGEND

DIRECTION OF TRAVEL

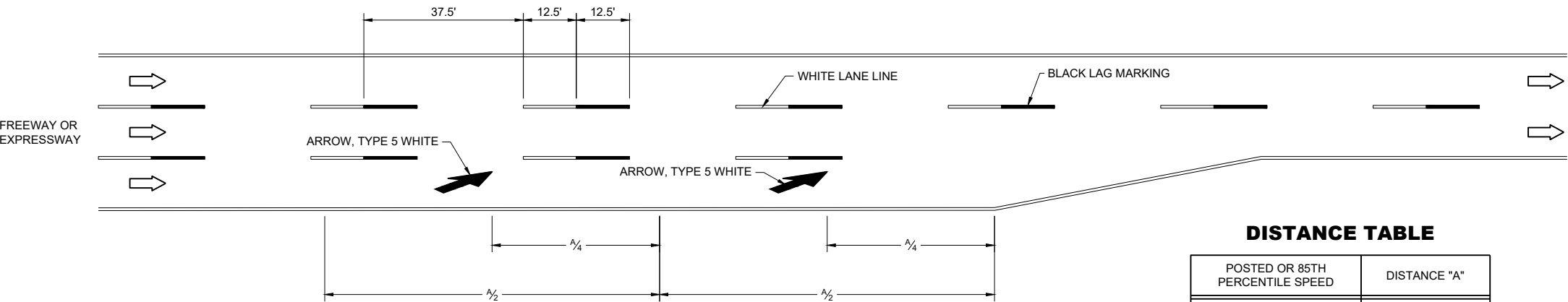
*CONFIRM MARKING LINE WIDTH WITH THE MISCELLANEOUS QUANTITIES

GENERAL NOTES

PLACE GROOVE 3 INCHES LEFT OF JOINT.



SERVICE INTERCHANGE LANE DROP MARKINGS



LANE REDUCTION MARKINGS

DISTANCE TABLE

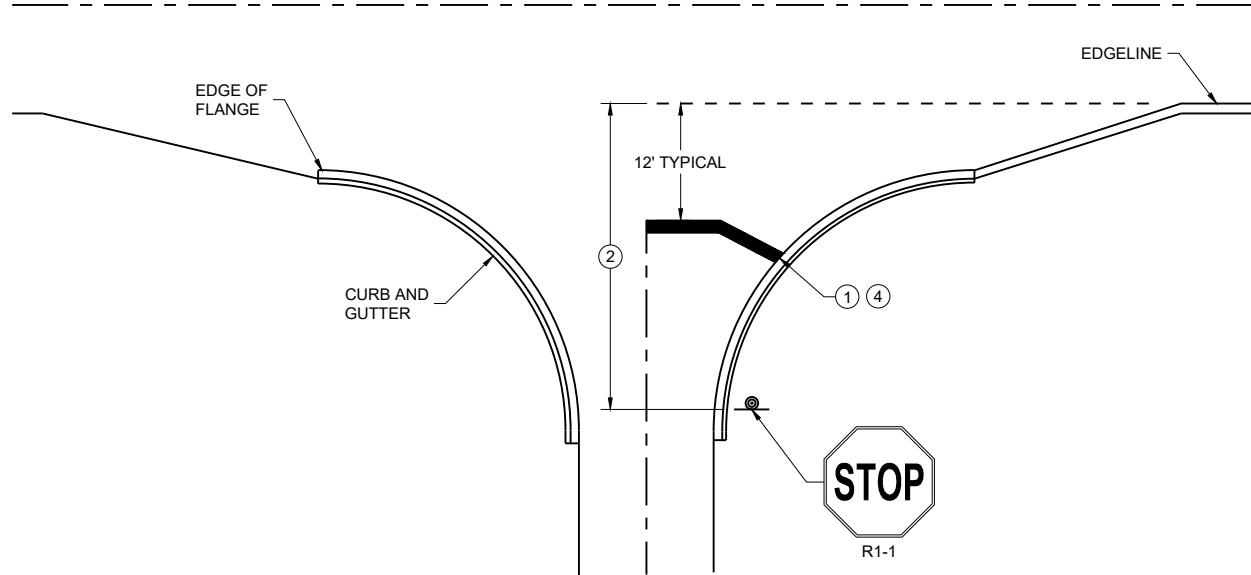
POSTED OR 85TH PERCENTILE SPEED	DISTANCE "A"
40	670'
45	775'
50	885'
55	990'
60	1100'
65	1200'
70	1250'

PAVEMENT MARKING,
LANE DROP AND
LANE REDUCTION

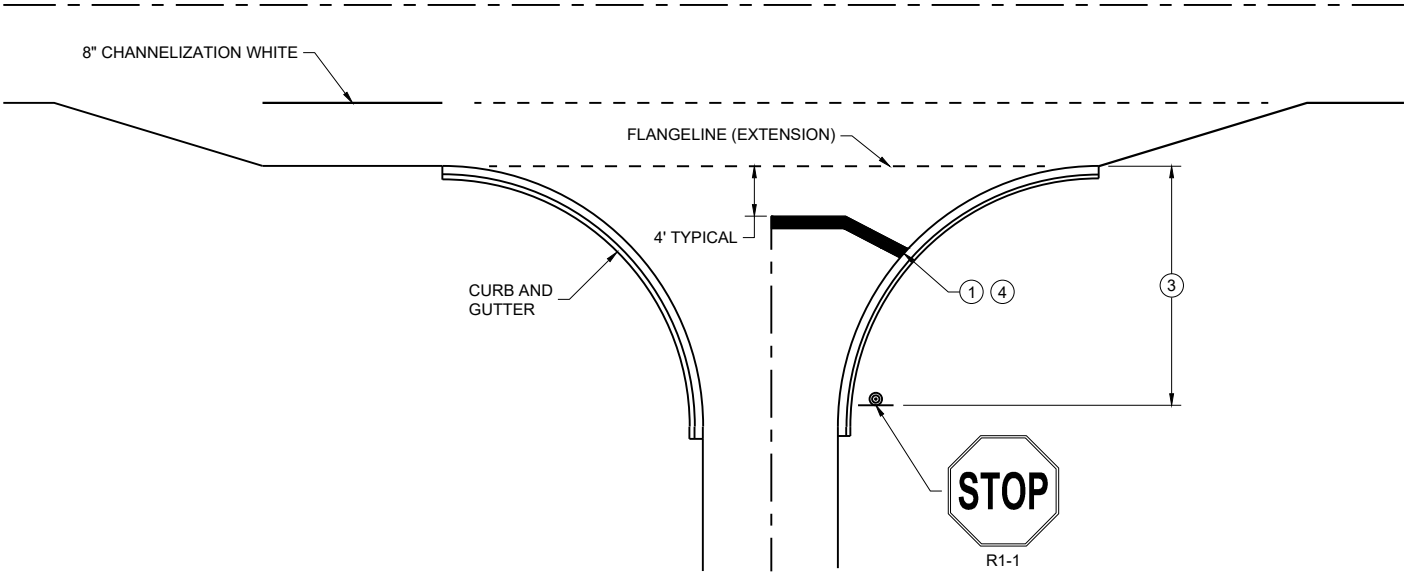
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
August 2024 /S/ Matthew Rauch
DATE WORK ZONE ENGINEER

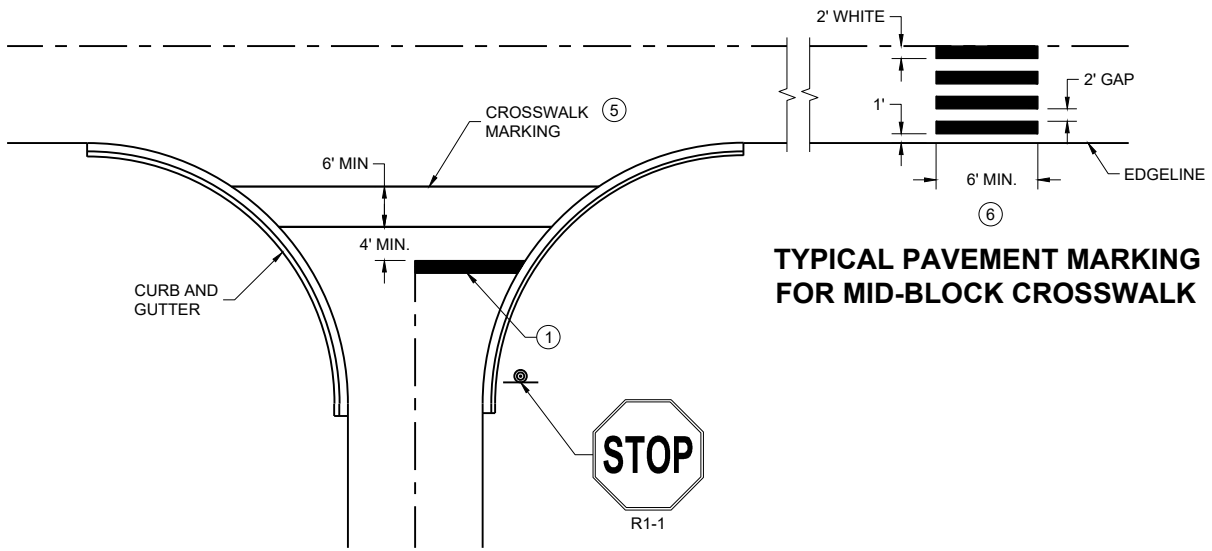
FHWA



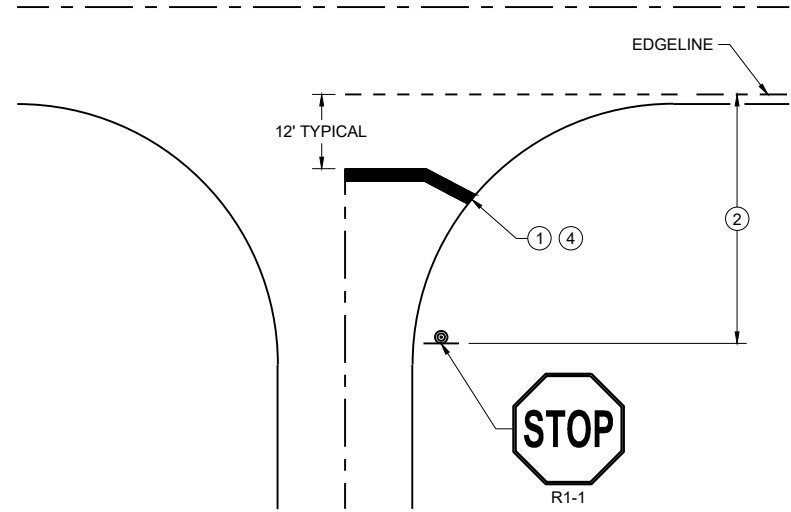
TYPICAL STOP LINE PAVEMENT MARKING
WITH CURB AND GUTTER



TYPICAL STOP LINE PAVEMENT MARKING
FOR SIDE ROADS WITH RIGHT TURN LANE



TYPICAL STOP LINE PAVEMENT MARKING FOR
SIDE ROADS WITH CROSSWALK MARKING



TYPICAL STOP LINE PAVEMENT MARKING
WITHOUT CURB AND GUTTER

GENERAL NOTES

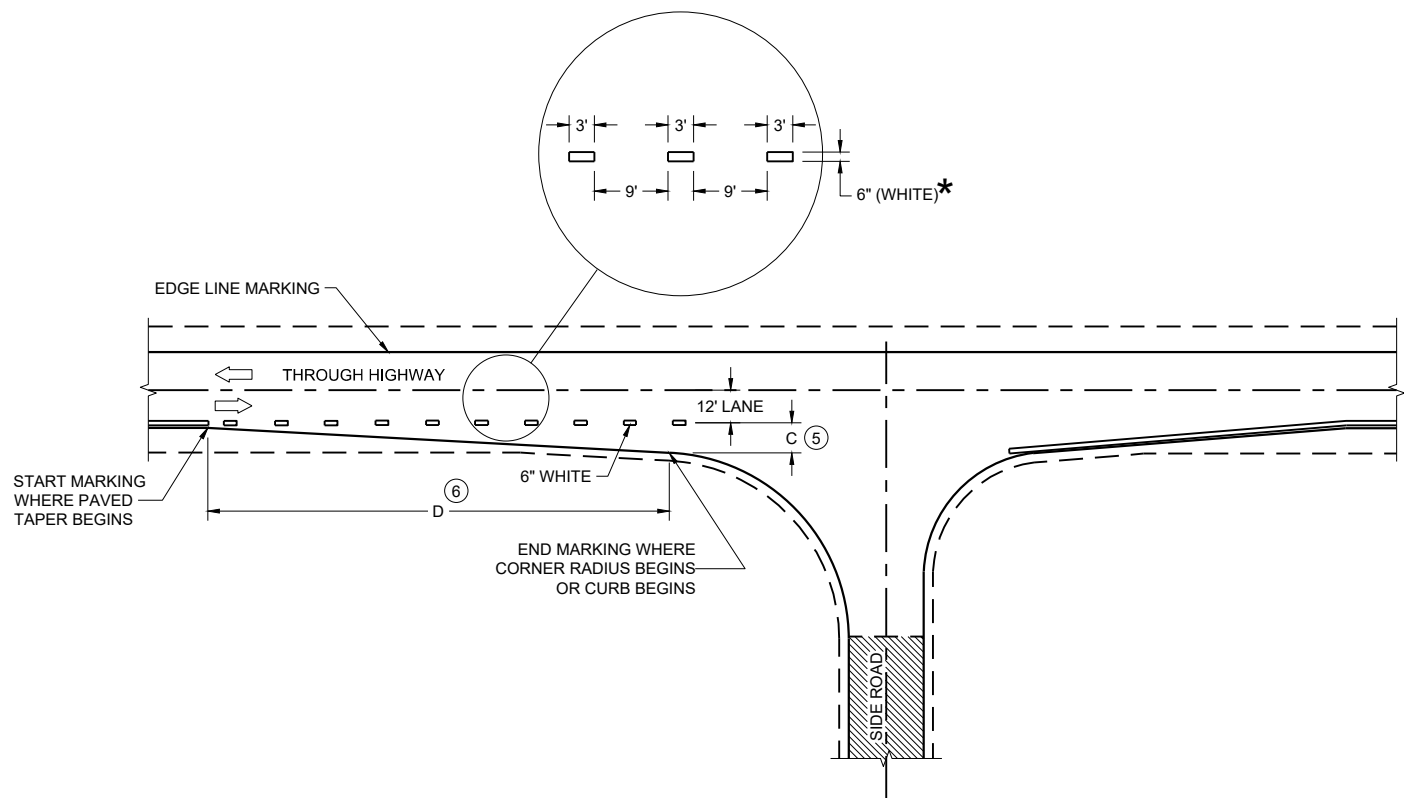
STOP SIGN SHALL BE PLACED A MINIMUM OF 6 FEET TO A MAXIMUM OF 50 FEET FROM THE EDGELINE LOCATION.

- ① 18-INCH STOP LINES MAY BE DELETED OR ADDED BY THE REGION MARKING ENGINEER BASED ON VISIBILITY AND SIGHT LINES.
- ② NO STOP LINE IS REQUIRED IF STOP SIGN IS LESS THAN OR EQUAL TO 40 FEET FROM THE EDGELINE.
- ③ NO STOP LINE IS REQUIRED IF STOP SIGN IS LESS THAN OR EQUAL TO 30 FEET FROM THE FLANGE LINE EXTENSION.
- ④ MOVE CLOSER TO THE EDGE OF TRAVEL LINE AS NEEDED FOR VISIBILITY AND SIGHT LINES (NO CLOSER THAN 4 FEET).
- ⑤ LADDER BAR CROSSWALKS SHOULD ONLY BE USED FOR MID BLOCK CROSSINGS. USE 2 - 6" TRANSVERSE LINES.
- ⑥ POSTED SPEED LIMITS OF 40 MPH OR GREATER USE A MINIMUM WIDTH OF 8' FOR MIDBLOCK CROSSWALKS

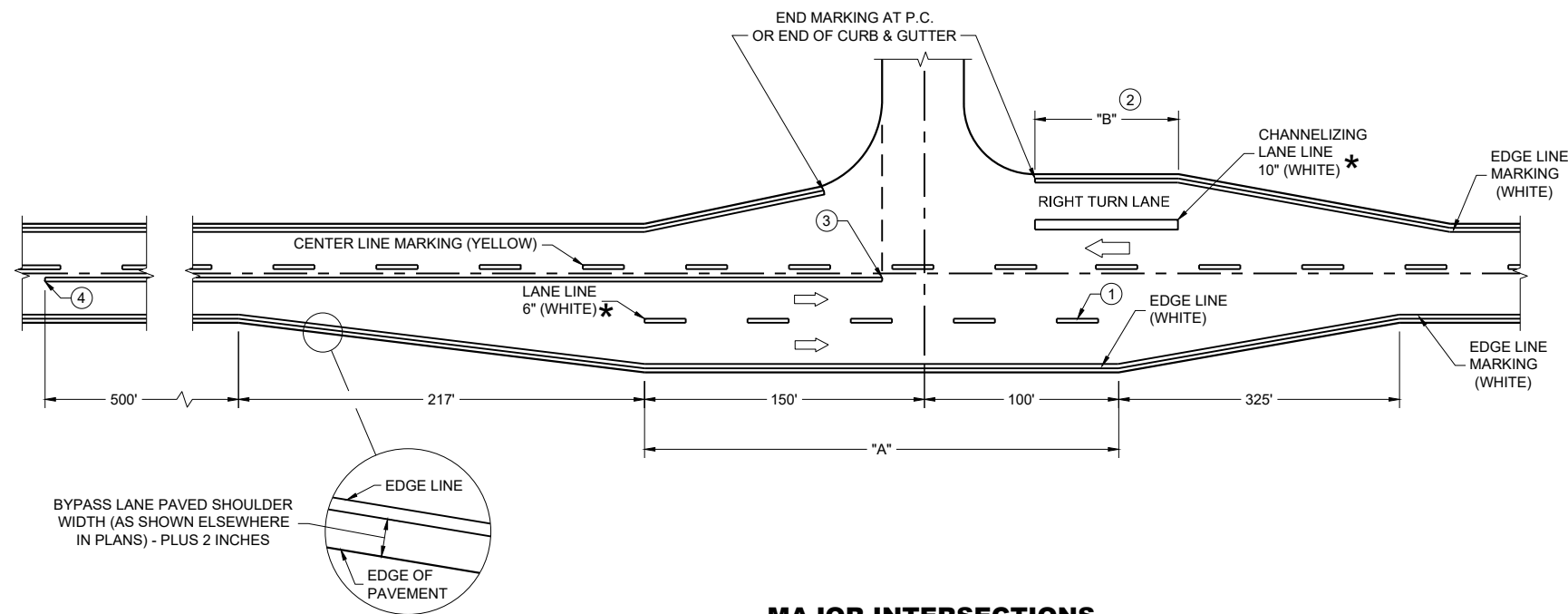
STOP LINE AND CROSSWALK
PAVEMENT MARKING

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
March 2024 /S/ Matthew Rauch
DATE STATE SIGNING AND MARKING
ENGINEER
FHWA



MINOR INTERSECTION



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

*CONFIRM MARKING LINE WIDTH WITH THE MISCELLANEOUS QUANTITIES

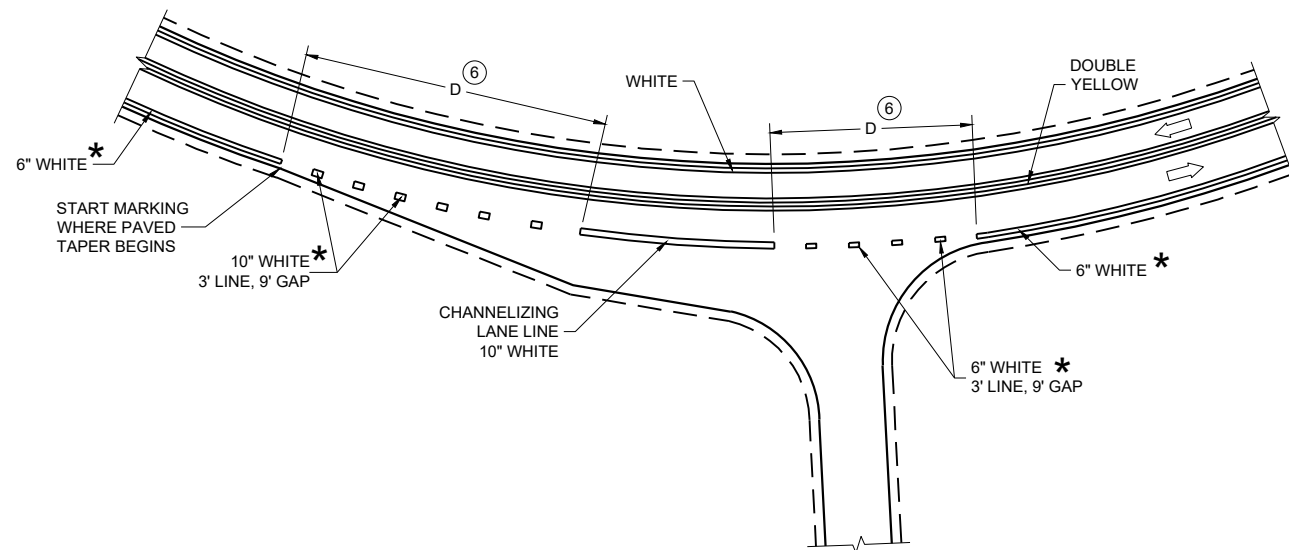
GENERAL NOTES

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.
- ⑤ WHEN DISTANCE "C" IS LESS THAN 4 FEET, OMIT DOTTED EXTENSION.
- ⑥ WHEN DISTANCE "D" IS LESS THAN 50 FEET, OMIT DOTTED EXTENSION.

LEGEND

➡ DIRECTION OF TRAVEL



INTERSECTION ON OUTSIDE OF CURVE

PAVEMENT MARKING
(INTERSECTIONS)

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

GENERAL NOTES

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

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

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

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

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

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

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

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

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

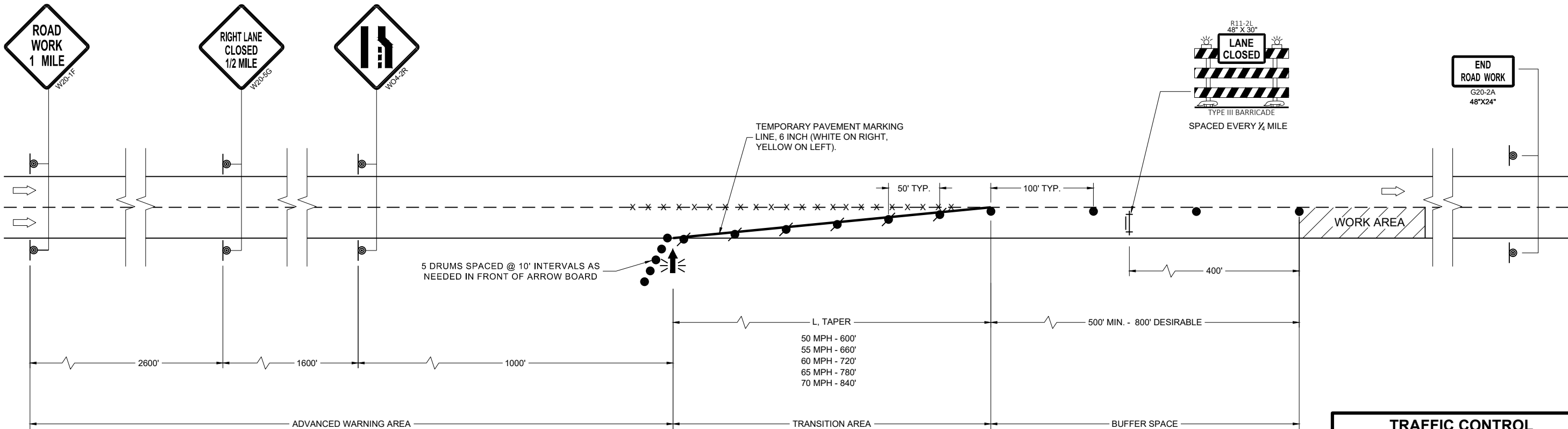
WARNING LIGHTS ARE NOT REQUIRED IF THE LANE CLOSURE IS A DAYTIME ONLY OPERATION.

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

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

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

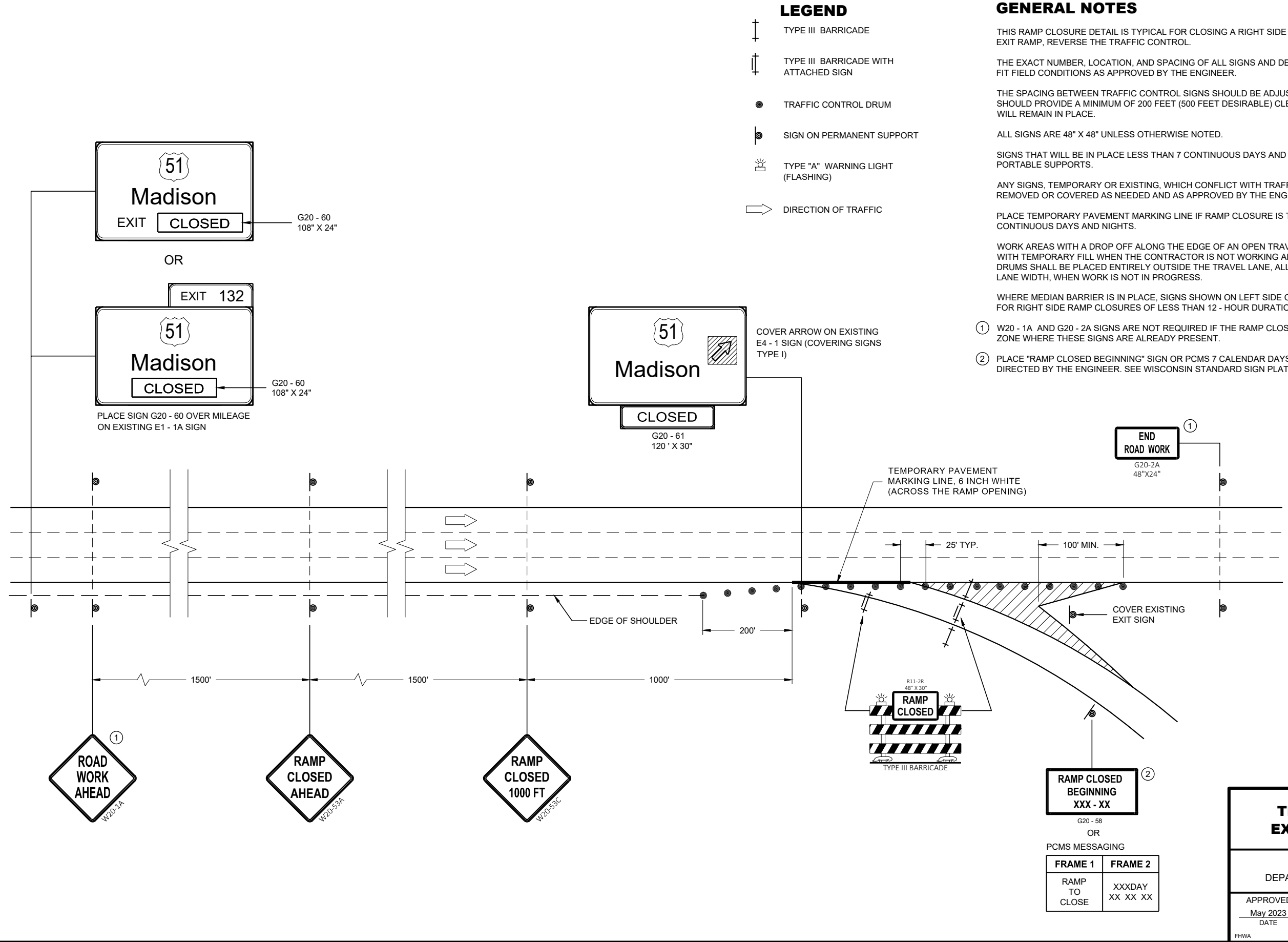


TRAFFIC CONTROL
LANE CLOSURE

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
March 2024 /S/ Andrew Heidtke
DATE Work Zone Engineer

FHWA



LEGEND

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

GENERAL NOTES

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

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

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

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

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

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

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

WORK AREAS WITH A DROP OFF ALONG THE EDGE OF AN OPEN TRAVEL LANE SHALL BE LEVELED WITH TEMPORARY FILL WHEN THE CONTRACTOR IS NOT WORKING ADJACENT TO THE TRAVEL LANE. DRUMS SHALL BE PLACED ENTIRELY OUTSIDE THE TRAVEL LANE, ALLOWING THE FULL UNOBSTRUCTED LANE WIDTH, WHEN WORK IS NOT IN PROGRESS.

WHERE MEDIAN BARRIER IS IN PLACE, SIGNS SHOWN ON LEFT SIDE OF ROADWAY MAY BE OMITTED FOR RIGHT SIDE RAMP CLOSURES OF LESS THAN 12 - HOUR DURATION.

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

② PLACE "RAMP CLOSED BEGINNING" SIGN OR PCMS 7 CALENDAR DAYS PRIOR TO CLOSURE OR AS DIRECTED BY THE ENGINEER. SEE WISCONSIN STANDARD SIGN PLATES FOR SIGN LAYOUT.

**TRAFFIC CONTROL,
EXIT RAMP CLOSURE**

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
May 2023
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)
- REMOVING PAVEMENT MARKINGS
- FLASHING ARROW BOARD
- DIRECTION OF TRAFFIC
- 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 LINE IF LANE CLOSURE IS TO BE IN

PLACE FOR 4 OR MORE CONTINUOUS DAYS AND NIGHTS.

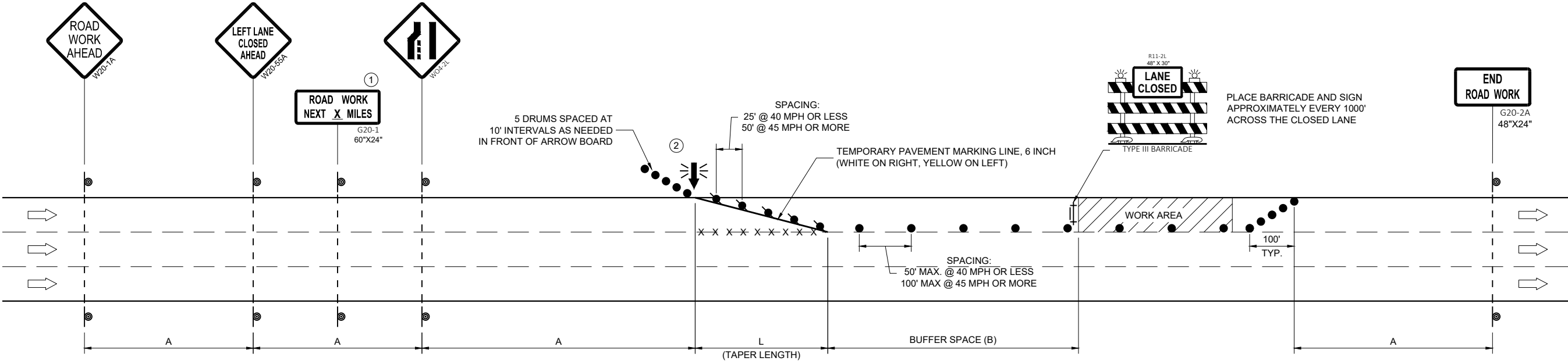
CONSIDER GEOMETRICS WHEN LOCATING SIGNS AND ARROW BOARDS SO THE APPROACHING DRIVER HAS A CLEAR VIEW OF THE ARROW BOARDS AND LANE CLOSURE DRUMS FOR A MINIMUM 1500 FEET IN FRONT OF DRUMS.

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
March 2024 /S/ Andrew Heidtke
DATE WORK ZONE 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)
- REMOVING PAVEMENT MARKINGS
- FLASHING ARROW BOARD
- DIRECTION OF TRAFFIC
- WORK AREA

GENERAL NOTES

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 LINE 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.

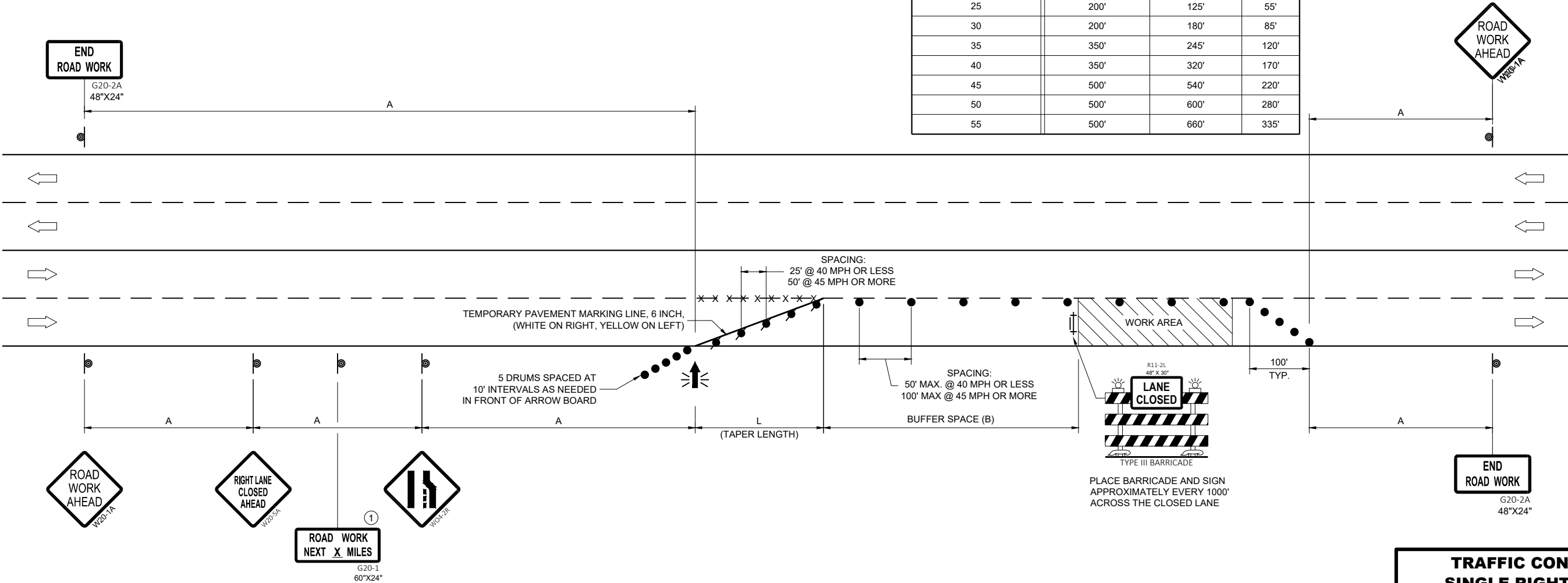
BARRICADES IN A CLOSED LANE THAT MUST BE MOVED FOR A WORK OPERATION SHALL BE IMMEDIATELY REESTABLISHED UPON COMPLETION OF THE OPERATION, OR FOR CONTINUING OPERATIONS, AT THE END OF EACH WORKING DAY.

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.

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'
50	500'	600'	280'
55	500'	660'	335'

① OMIT G20-1 SIGNS IF LENGTH OF WORK AREA IS 2 MILES OR LESS.



**TRAFFIC CONTROL,
SINGLE RIGHT LANE
CLOSURE, UNDIVIDED
NON-FREEWAY/EXPRESSWAY**

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
March 2024 /S/ Andrew Heidtke
DATE WORK ZONE 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)
- REMOVING PAVEMENT MARKINGS
- FLASHING ARROW BOARD
- DIRECTION OF TRAFFIC
- WORK AREA

GENERAL NOTES

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 LINE 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.

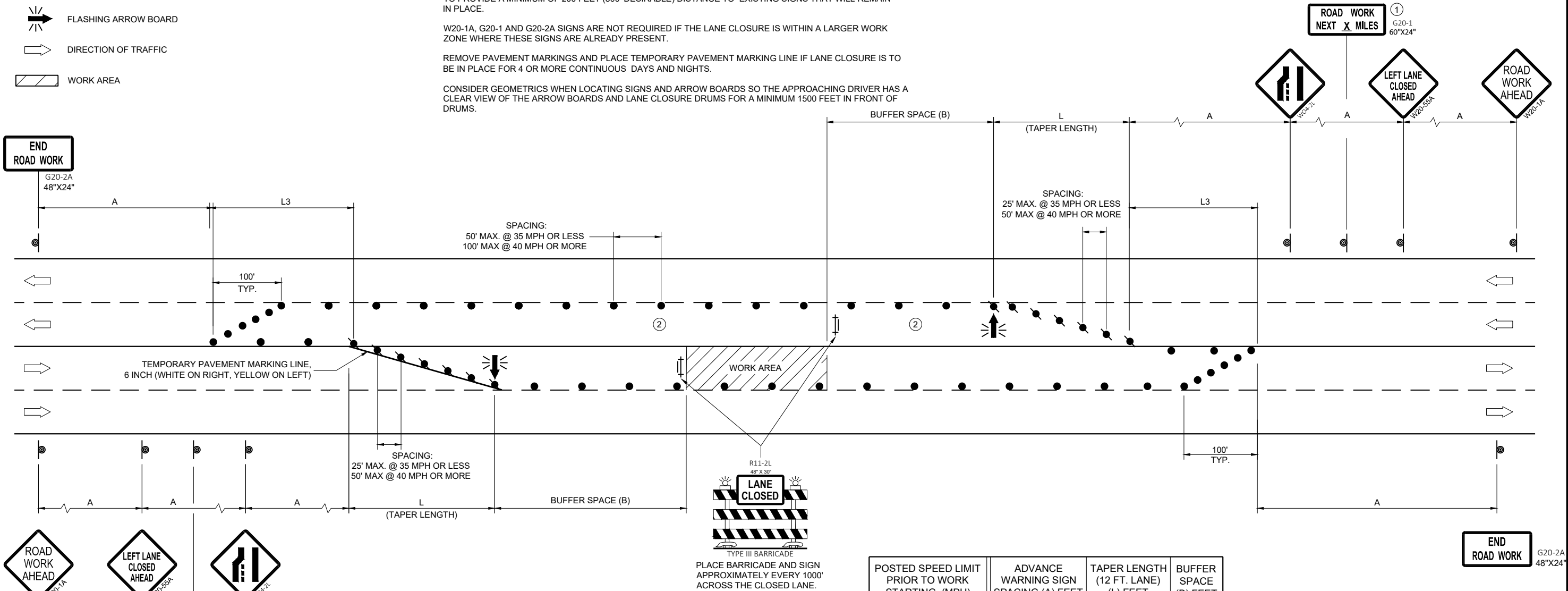
DUE TO LACK OF SHOULDER/MEDIAN, ARROW BOARD IS PLACED AT THE THE END OF THE TAPER.

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 LANE MAY BE OPENED WHEN WORKERS ARE NOT PRESENT IN THE WORK AREA.



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'
50	500'	600'	280'
55	500'	660'	335'

**TRAFFIC CONTROL,
SINGLE LEFT LANE
CLOSURE, UNDIVIDED
NON-FREEWAY/EXPRESSWAY**

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
March 2024 /S/ Andrew Heidtke
DATE WORK ZONE 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.

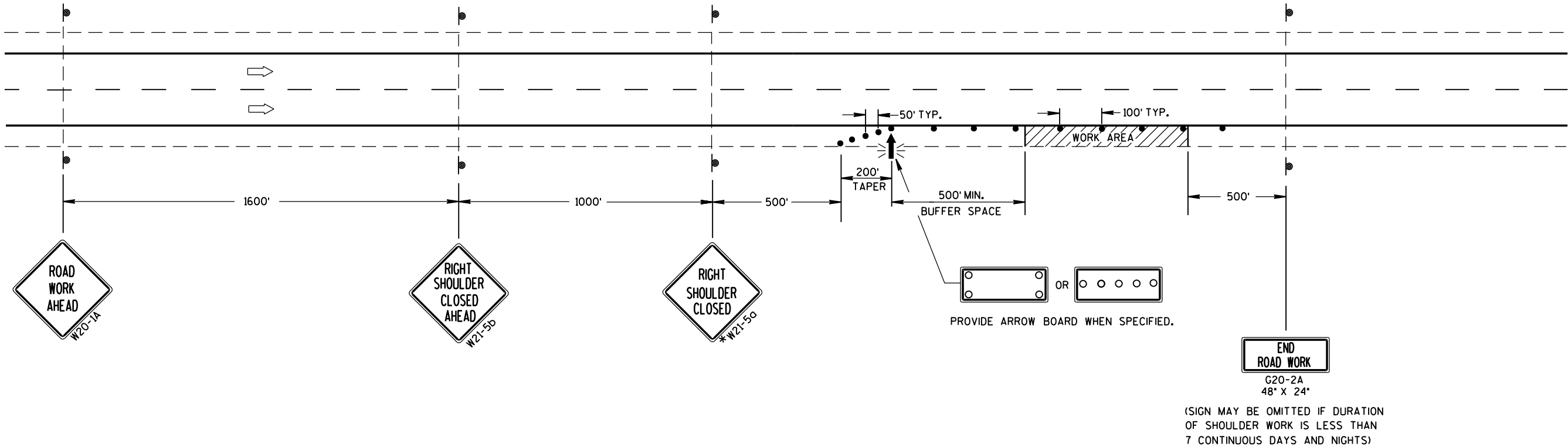
SIGNS THAT WILL BE IN PLACE LESS THAN 7 CONTINUOUS DAYS AND NIGHTS MAY BE MOUNTED ON PORTABLE SUPPORTS.

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.



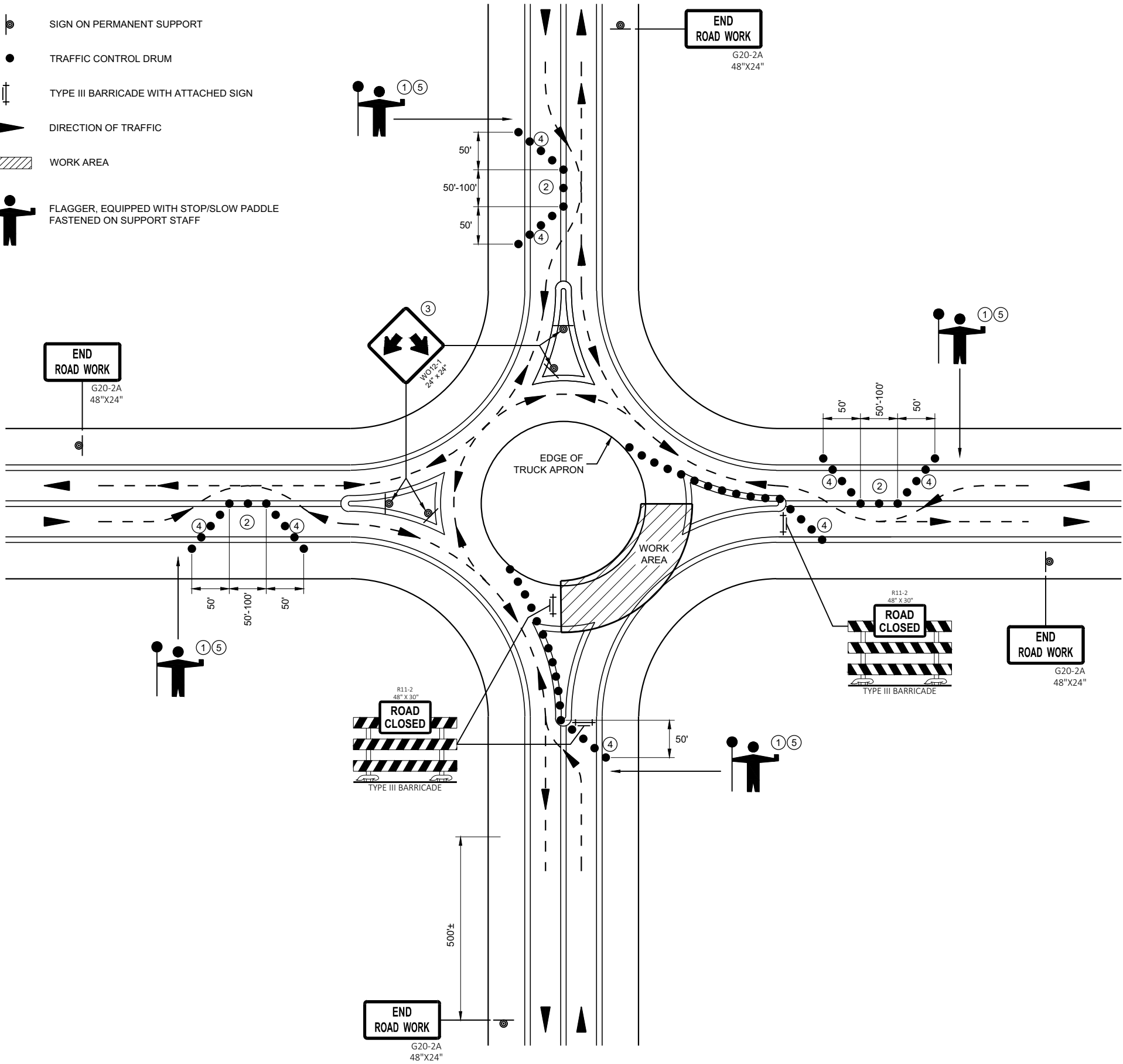
TRAFFIC CONTROL
SHOULDER CLOSURE ON DIVIDED
ROADWAY, SPEEDS GREATER
THAN 40 MPH

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

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

LEGEND

- SIGN ON PERMANENT SUPPORT
- TRAFFIC CONTROL DRUM
- TYPE III BARRICADE WITH ATTACHED SIGN
- DIRECTION OF TRAFFIC
- WORK AREA
- FLAGGER, EQUIPPED WITH STOP/SLOW PADDLE FASTENED ON SUPPORT STAFF



GENERAL NOTES

ALL SIGNS ARE 48"X48" BLACK ON ORANGE UNLESS OTHERWISE NOTED. IF NECESSARY DUE TO SPACE CONSTRAINTS, 36" X 36" SIGNS MAY BE USED IF APPROVED BY THE REGIONAL TRAFFIC UNIT.

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

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

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

ONLY ONE QUADRANT OF TRAFFIC SHALL BE RELEASED AT A TIME.

FLAGGERS SHALL CONTROL TRAFFIC ON ALL APPROACHES OF THE ONE-LANE ROUNDABOUT. ONE FLAGGER SHALL BE DESIGNATED LEAD FLAGGER.

NIGHT TIME WORK REQUIRES ADDITIONAL LIGHTING AT FLAGGER STATION(S).

- ① FLAGGERS SHALL BE IN DIRECT RADIO CONTACT AT ALL TIMES. THEY SHALL BE EQUIPPED WITH STOP/SLOW PADDLES FASTENED ON SUPPORT STAFFS. WHEN THE FLAGGING IS NOT IN EFFECT, COVER OR REMOVE ALL TEMPORARY TRAFFIC CONTROL SIGNS.
- ② ADJUST CHANNELIZING DEVICES TO ACCOMMODATE FOR TURNING RADIUS OF LARGE VEHICLES AS DIRECTED BY THE ENGINEER.
- ③ GUIDE SIGN WITH ROAD NAMES MAY BE USED IN LIEU OF THE DOUBLE ARROW (WO12-1) SIGN.
- ④ THE TWO- WAY TAPER SHOULD BE 50 FEET USING 5 EQUALLY SPACED DRUMS.
- ⑤ FOLLOW SDD 15C12 FOR FLAGGING AND ADVANCE WARNING.

RECOMMENDED REDUCED DRUM SPACING WITHIN ROUNDABOUT

MPH	DRUM SPACING (FT)
0-40	25
45-55	50

**TRAFFIC CONTROL,
FLAGGING OPERATION,
ROUNDABOUT**

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

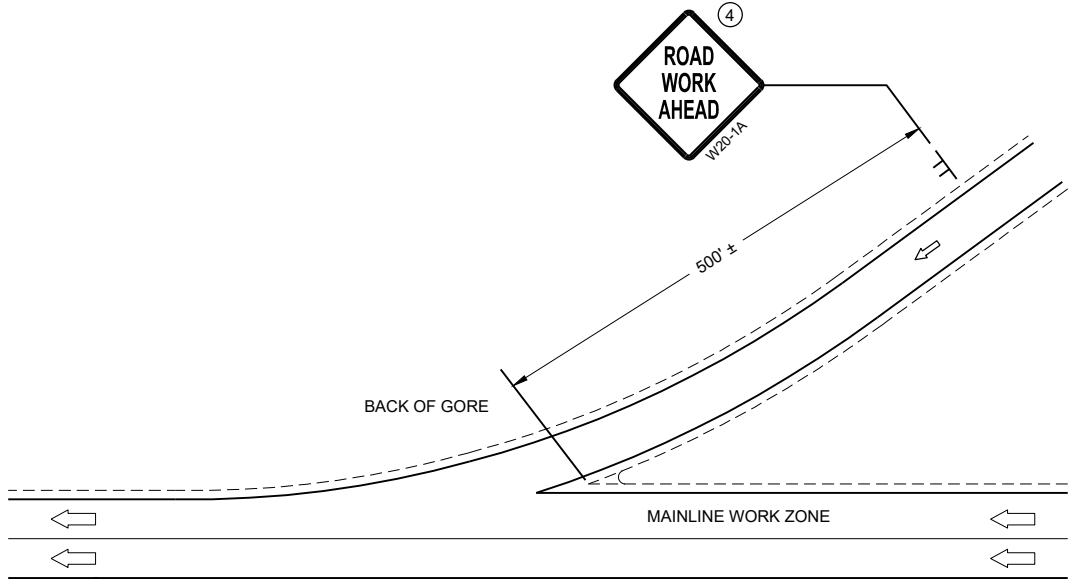
APPROVED
May 2020
DATE

/S/ Andrew Heidtke
STATEWIDE WORK ZONE TRAFFIC
SAFETY ENGINEER

FHWA

LEGEND

- V1 SHADOW VEHICLE 1
- V2 SHADOW VEHICLE 2
- V3 ADVANCE WARNING TRUCK
- TRAFFIC CONTROL DRUM
-  TRUCK MOUNTED ATTENUATOR (TMA)
-  SIGN ON TEMPORARY SUPPORT
-  DIRECTION OF TRAFFIC
-  FLASHING ARROW PANEL (MERGE)
-  FLASHING ARROW PANEL (CAUTION)
-  PORTABLE CHANGEABLE MESSAGE SIGN
-  WORK AREA

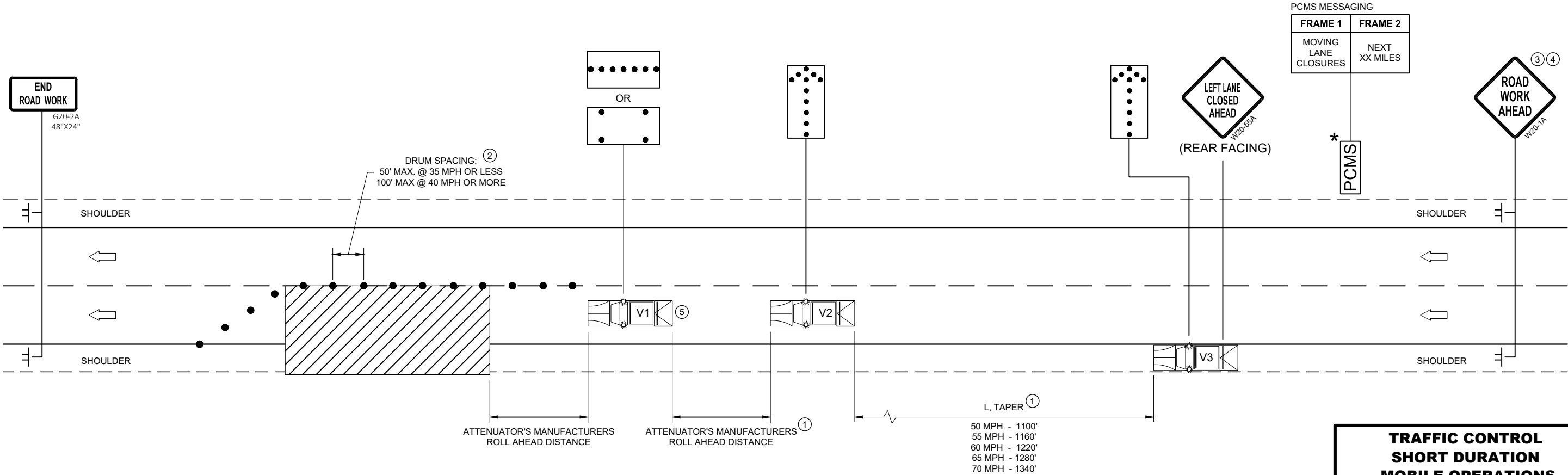


GENERAL NOTES

- SHORT DURATION IS WORK THAT OCCUPIES A LOCATION UP TO 1 HOUR.
- MOBILE IS WORK THAT MOVES INTERMITTENTLY OR CONTINUOUSLY.
- ALL VEHICLES SHALL BE EQUIPPED WITH TWO 360 DEGREE HIGH INTENSITY YELLOW FLASHING LIGHTS OR STROBE LIGHTS AND OPERATED WITH HEADLIGHTS TURNED ON.
- ALL VEHICLES SHALL BE EQUIPPED WITH REAR FACING TYPE B OR C FLASHING ARROW PANEL. SIGNS PLACED ON VEHICLES MUST NOT OBSCURE THE ARROW PANEL.
- ALL SIGNS ARE 48" X 48" UNLESS OTHERWISE SPECIFIED.
- WHEN WORK ACTIVITY BLOCKS THE RIGHT LANE, REVERSE TRAFFIC CONTROL.
- WHEN A RAMP INTERSECTS THE FACILITY ON WHICH THE WORK IS BEING PERFORMED, PROVIDE ADDITIONAL TRAFFIC CONTROLS AS SPECIFIED IN THE CONTRACT OR AS APPROVED BY THE ENGINEER.
- USE DOUBLE ARROWS WHEN CONVOY IS IN CENTER LANE ONLY.
- WHEN NO WORK ACTIVITY IS TAKING PLACE, REMOVE OR LAY STATIONARY SIGNS AND SUPPORTS FLAT ON THE GRADE WITH UPRIGHTS ORIENTED PARALLEL TO AND DOWNSTREAM FROM TRAFFIC

- ① DISTANCE BETWEEN VEHICLES MAY VARY ACCORDING TO TERRAIN, SIGHT DISTANCE AND OTHER FACTORS. WHENEVER ADEQUATE STOPPING SIGHT DISTANCE EXISTS TO THE REAR, SHADOW VEHICLES SHOULD MAINTAIN THE MINIMUM DISTANCE FROM THE WORK VEHICLE AND PROCEED AT THE SAME SPEED AS THE WORK VEHICLE. SHADOW VEHICLES SHOULD SLOW DOWN IN ADVANCE OF VERTICAL AND HORIZONTAL CURVES THAT RESTRICT SIGHT DISTANCE.
- ② DRUMS ARE TO BE USED FOR BRIDGE DECK SEALING AND OTHER PROJECTS THAT REQUIRE DELINEATION.
- ③ WITHIN 5 MILES, RELOCATE SIGNS AS WORK PROGRESSES AND NECESSARY OR AS DIRECTED BY THE ENGINEER.
- ④ SIGN NOT REQUIRED IF MOVING OPERATION OCCURS WITHIN A SIGNED ROAD WORK ZONE AREA.
- ⑤ SHADOW VEHICLE 1 (V1) IS OPTIONAL

* PCMS OPTIONAL



TRAFFIC CONTROL
SHORT DURATION
MOBILE OPERATIONS

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
August 2021 /S/ Andrew Heidtke
DATE WORK ZONE ENGINEER

FHWA

LEGEND

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

POSTED SPEED LIMIT PRIOR TO WORK STARTING (MPH)	ADVANCE WARNING SIGN SPACING (A) FEET	SHIFTING TAPER $L/2$					
		W, LATERAL OFFSET (FT)					
3	4	5	6	7	8		
25	200	10	14	17	21	24	28
30	200	15	20	25	30	35	40
35	350	20	27	34	40	47	54
40	350	26	35	44	53	62	70
45	500	45	59	74	89	104	119
50	500	50	66	83	99	116	132
55	500	54	73	91	109	127	145

GENERAL NOTES

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

ALL SIGNS ARE 48"x48" UNLESS OTHERWISE NOTED. IF NECESSARY DUE TO SPACE CONSTRAINTS IN URBAN AREAS, 36"x36" SIGNS MAY BE USED IF APPROVED BY THE REGIONAL TRAFFIC UNIT.

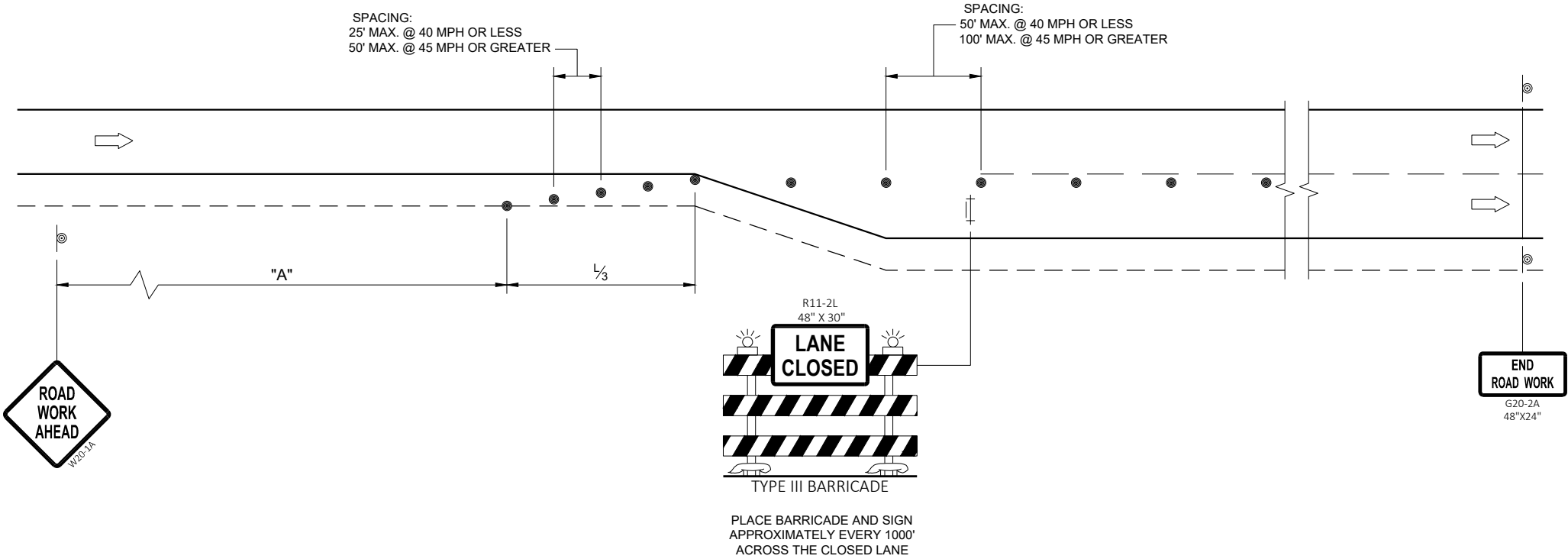
"WO" IS THE SAME AS "W" EXCEPT THE BACKGROUND IS ORANGE.

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

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

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

W20-1 AND G20-2A SIGNS ARE NOT REQUIRED IF THE WORK AREA IS WITHIN A LARGER WORK ZONE WHERE THESE SIGNS ARE ALREADY PRESENT. G20-2A SIGNS MAY ALSO BE OMITTED IF DURATION WORK IS LESS THAN SEVEN CONTINUOUS DAYS AND NIGHTS.



TRAFFIC CONTROL
ADDED LANE CLOSURE
WITHOUT LANE SHIFT

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
May 2023 /S/ Andrew Heidtke
DATE WORK ZONE ENGINEER
FHWA

LEGEND

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

POSTED SPEED LIMIT PRIOR TO WORK STARTING (MPH)	ADVANCE WARNING SIGN SPACING (A) FEET	SHIFTING TAPER (L/2) FEET
25	200	60
30	200	90
35	350	120
40	350	160
45	500	270
50	500	300
55	500	330

GENERAL NOTES

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

ALL SIGNS ARE 48"x48" UNLESS OTHERWISE NOTED. IF NECESSARY DUE TO SPACE CONSTRAINTS IN URBAN AREAS, 36"x36" SIGNS MAY BE USED IF APPROVED BY THE REGIONAL TRAFFIC UNIT.

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

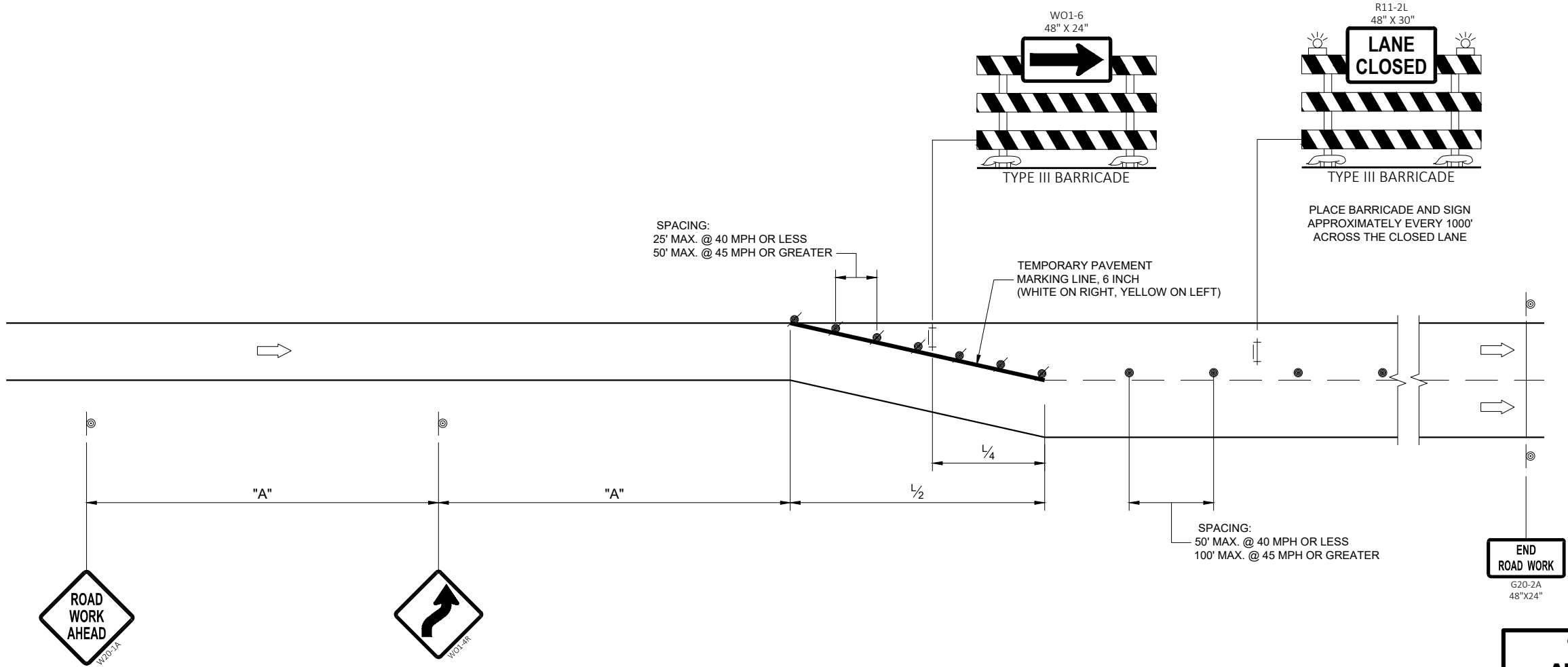
ANY SIGNS TEMPORARY OR EXISTING, WHICH CONFLICT WITH TRAFFIC CONTROL "IN USE" SHALL BE REMOVED OR COVERED AS NEEDED AND AS APPROVED BY THE ENGINEER.

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

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

W20-1 AND G20-2A SIGNS ARE NOT REQUIRED IF THE WORK AREA IS WITHIN A LARGER WORK ZONE WHERE THESE SIGNS ARE ALREADY PRESENT. G20-2A SIGNS MAY ALSO BE OMITTED IF DURATION WORK IS LESS THAN SEVEN CONTINUOUS DAYS AND NIGHTS.

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



TRAFFIC CONTROL,
ADDED LANE CLOSURE
WITH LANE SHIFT

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
May 2023
DATE

/S/ Andrew Heidtke
WORK ZONE ENGINEER

FHWA

LEGEND

- V1

WORK VEHICLE
- V2

SHADOW VEHICLE
- 

TRUCK MOUNTED ATTENUATOR (TMA)
- 

FLASHING ARROW PANEL (CAUTION)
- 

WORK AREA
- 

DIRECTION OF TRAFFIC

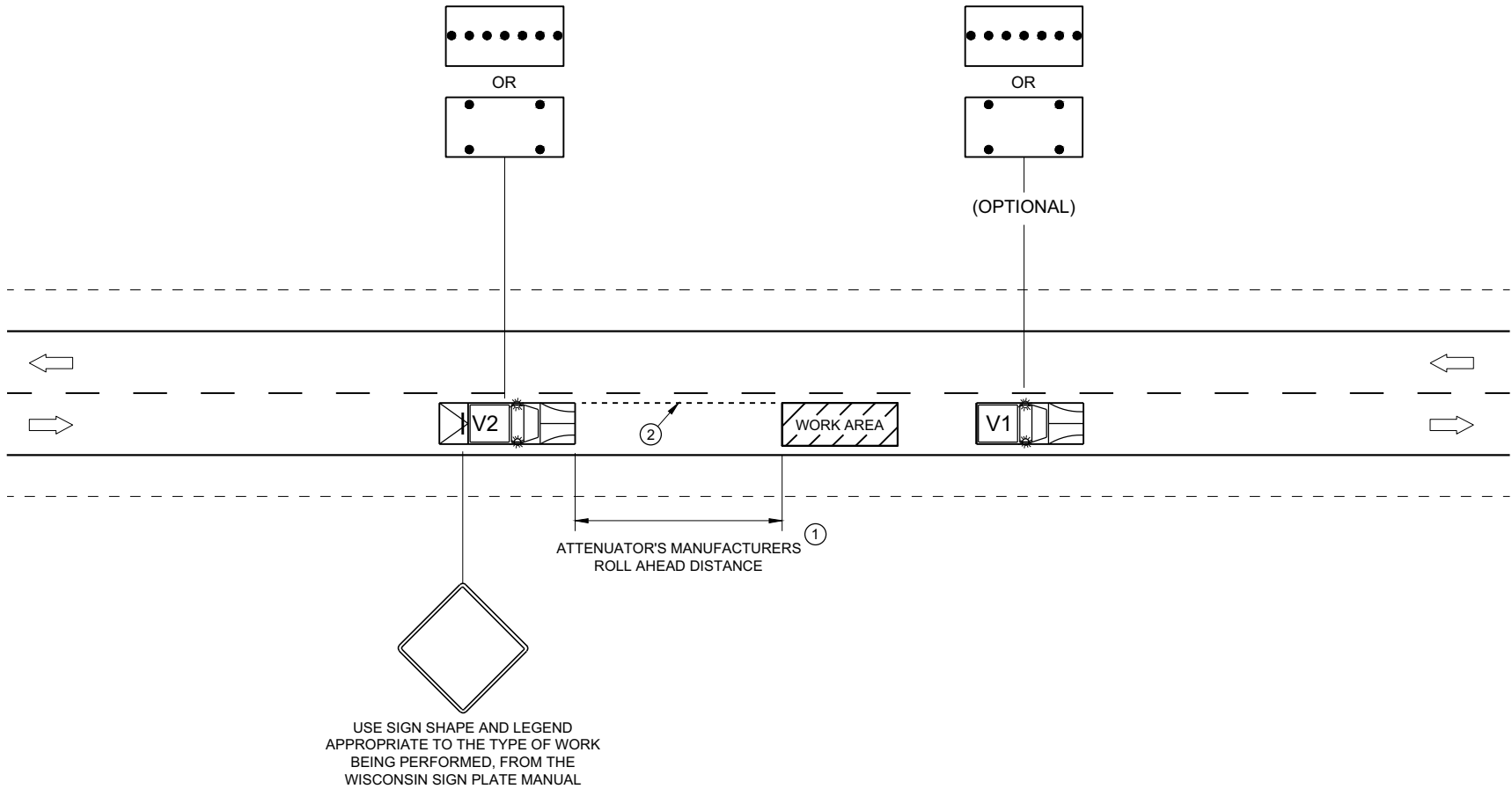
POSTED SPEED PRIOR TO WORK STARTING (MPH)	DECISION SIGHT DISTANCE (D)
0 - 25	550'
30	550'
35	700'
40	700'
45	900'
50	900'
55	1200'

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

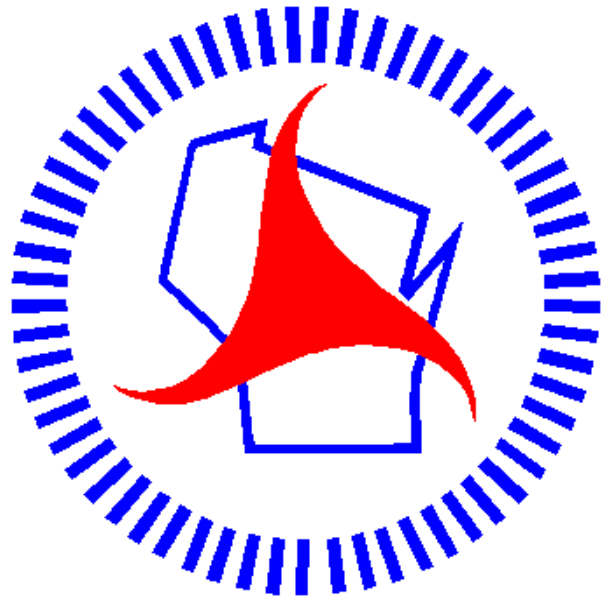
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

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>