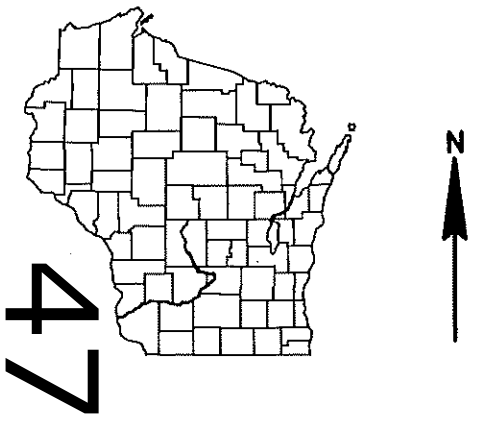


WKE
PROJECT ID: 1000-77-26
COUNTY: SOUTHEAST WIDE

DECEMBER 2025
ORDER OF SHEETS

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

TOTAL SHEETS = 80



DESIGN DESIGNATION

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

CONVENTIONAL SYMBOLS

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

PROFILE

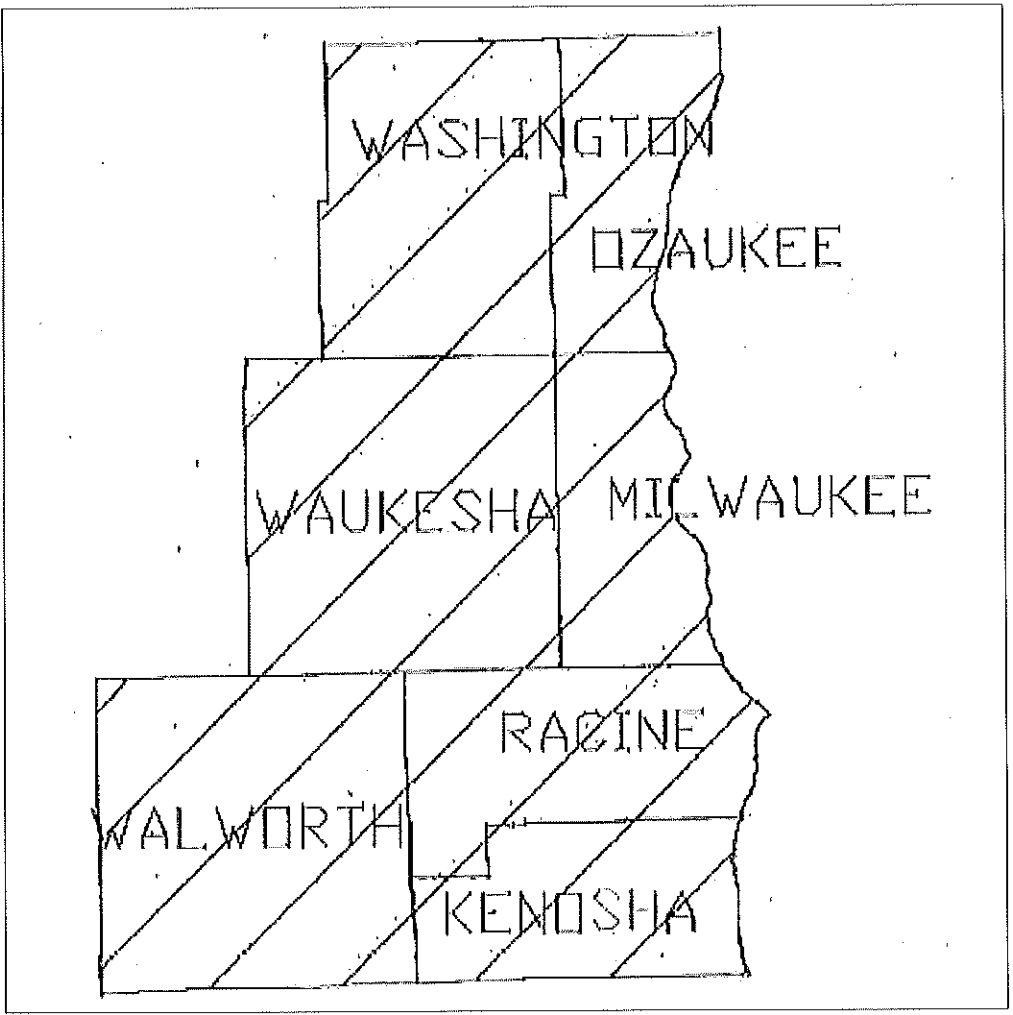
GRADE LINE	----
ORIGINAL GROUND	----
MARSH OR ROCK PROFILE (To be noted as such)	----
SPECIAL DITCH	----
GRADE ELEVATION	95.36
CULVERT (Profile View)	----
UTILITIES	----
ELECTRIC	E
FIBER OPTIC	FO
GAS	G
SANITARY SEWER	SAN
STORM SEWER	SS
TELEPHONE	T
WATER	W
UTILITY PEDESTAL	----
POWER POLE	----
TELEPHONE POLE	----

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

PLAN OF PROPOSED IMPROVEMENT

EPOXY PAVEMENT MARKING 2026
LOCATIONS ON STN PER ANNUAL PLAN
VAR HWY
SOUTHEAST REGION WIDE

STATE PROJECT NUMBER
1000-77-26



LAYOUT
SCALE 0 1
TOTAL NET LENGTH OF CENTERLINE =

HORIZONTAL POSITIONS SHOWN ON THIS PLAN ARE WISCONSIN COUNTY COORDINATES, COUNTY COORDINATES, NAD83 (YEAR), IN 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
1000-77-26	WISC 2026121	1

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

PREPARED BY

Surveyor	
Designer	JEANNE SILVER
Project Manager	KAREN MARTENS
Regional Examiner	
Regional Supervisor	THOMAS BOYKE

APPROVED FOR THE DEPARTMENT

DATE: 10-20-2025 *Matthew P. Paul*
(Signature)

E

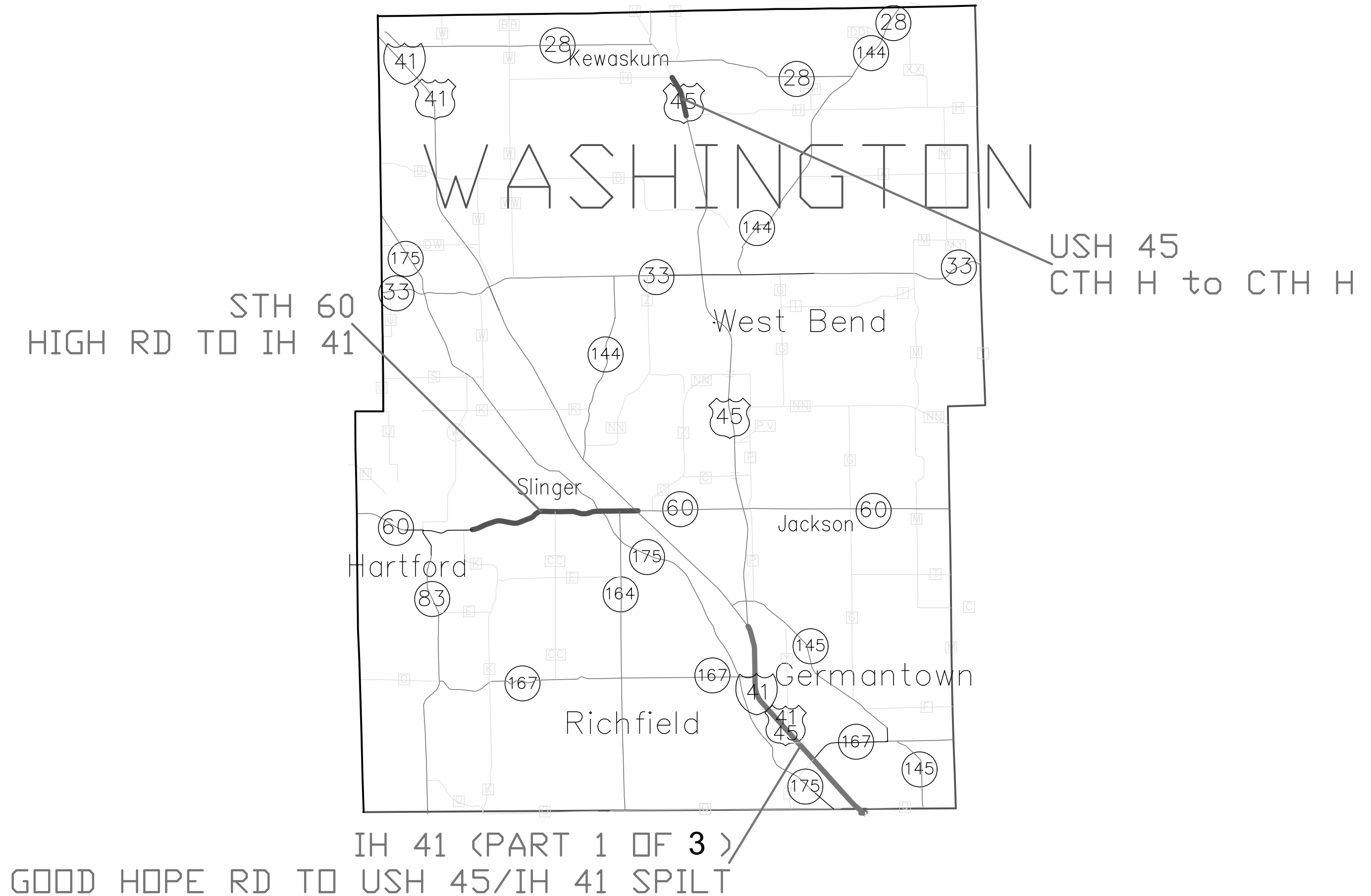
GENERAL NOTES

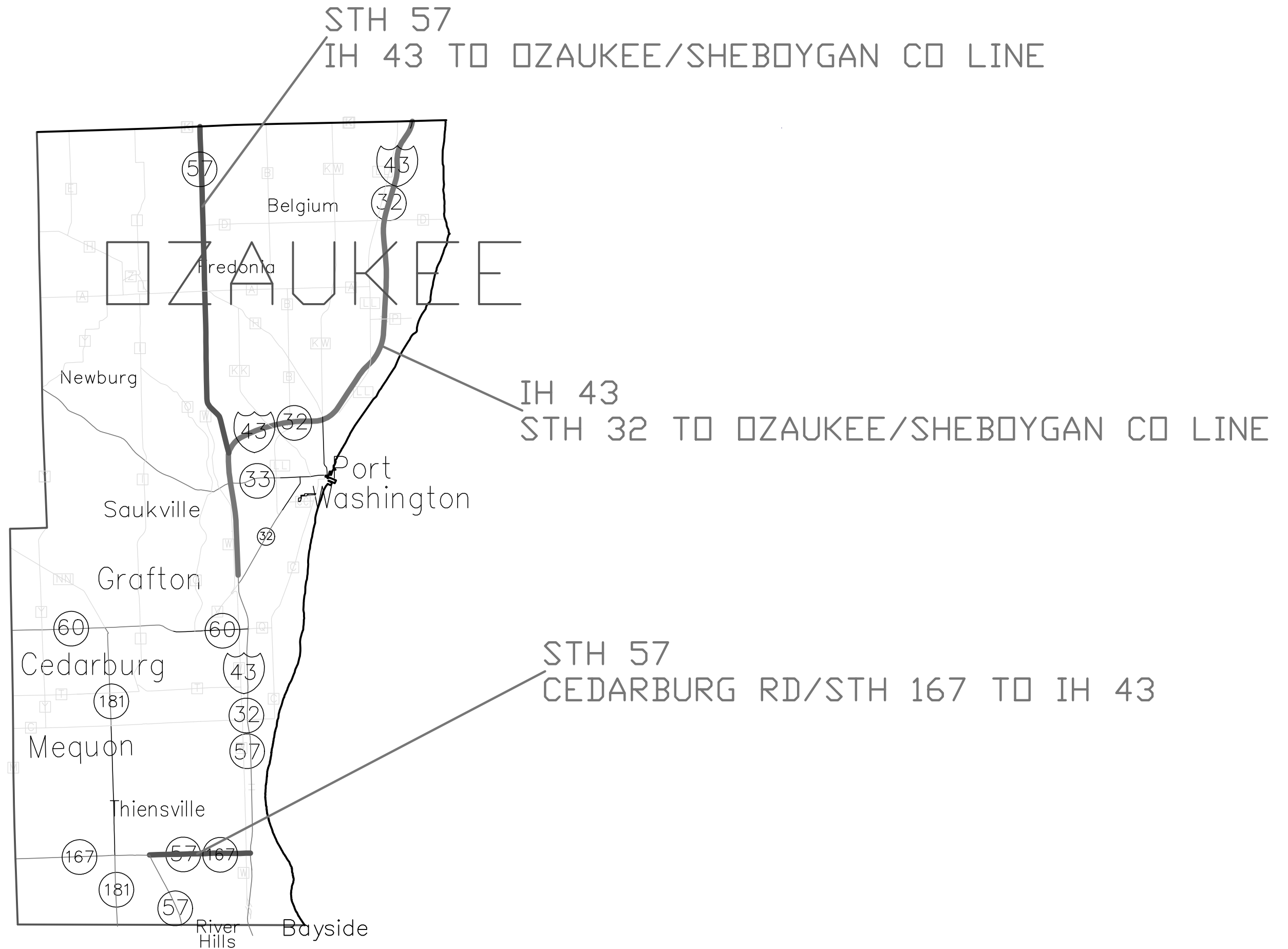
THERE ARE UTILITY FACILITIES WITHIN THE PROJECT AREA THAT ARE NOT SHOWN ON THE PLANS. COORDINATE CONSTRUCTION ACTIVITIES WITH A CALL TO DIGGERS HOTLINE AND/OR A DIRECT CALL TO THE UTILITIES THAT HAVE FACILITIES IN THE AREA. NOT ALL UTILITIES ARE MEMBERS OF DIGGERS HOTLINE.

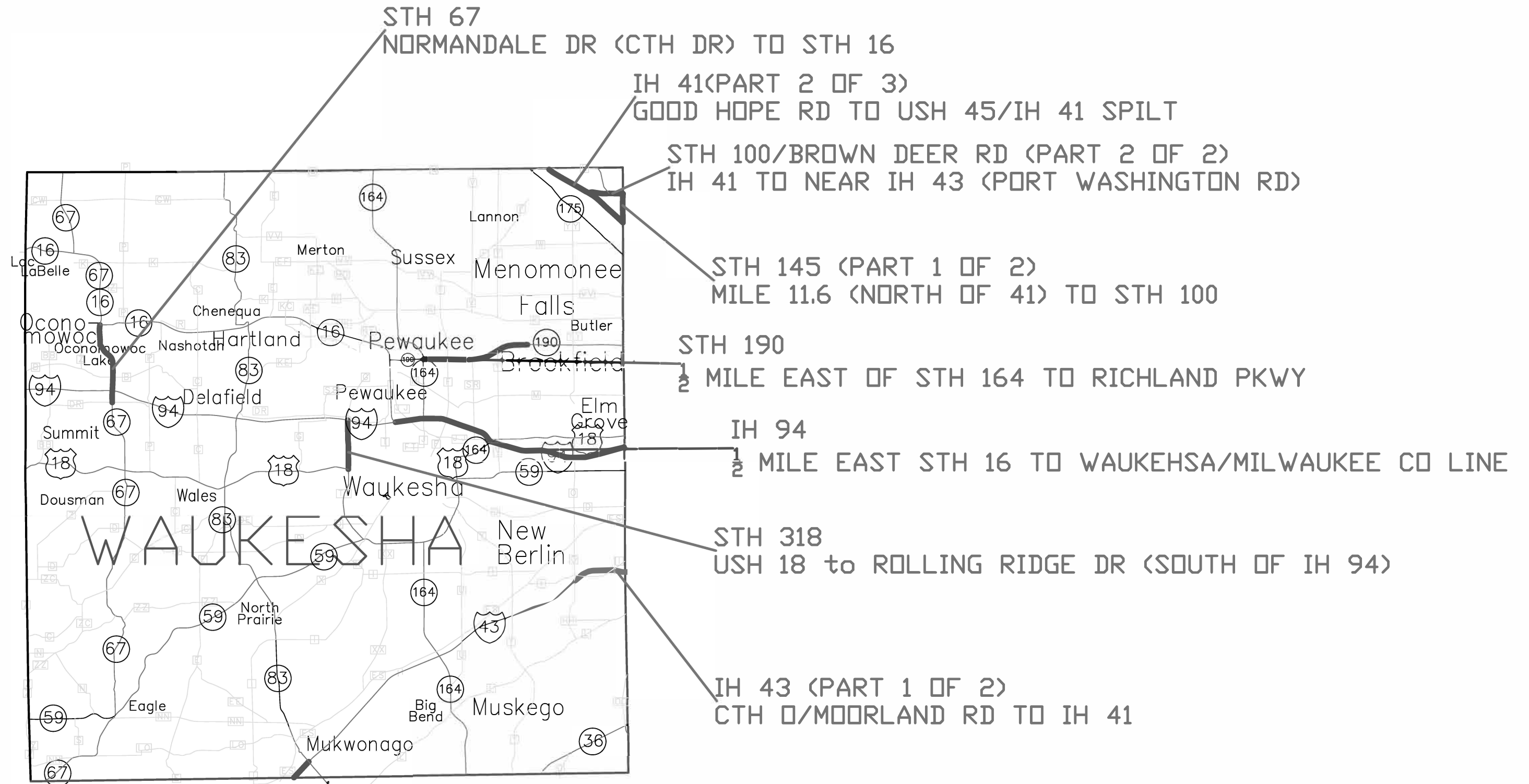


KAREN MARTENS
SE SIGNING AND MARKING ENGINEER
262-548-6892
KAREN.MARTENS@DOT.WI.GOV

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

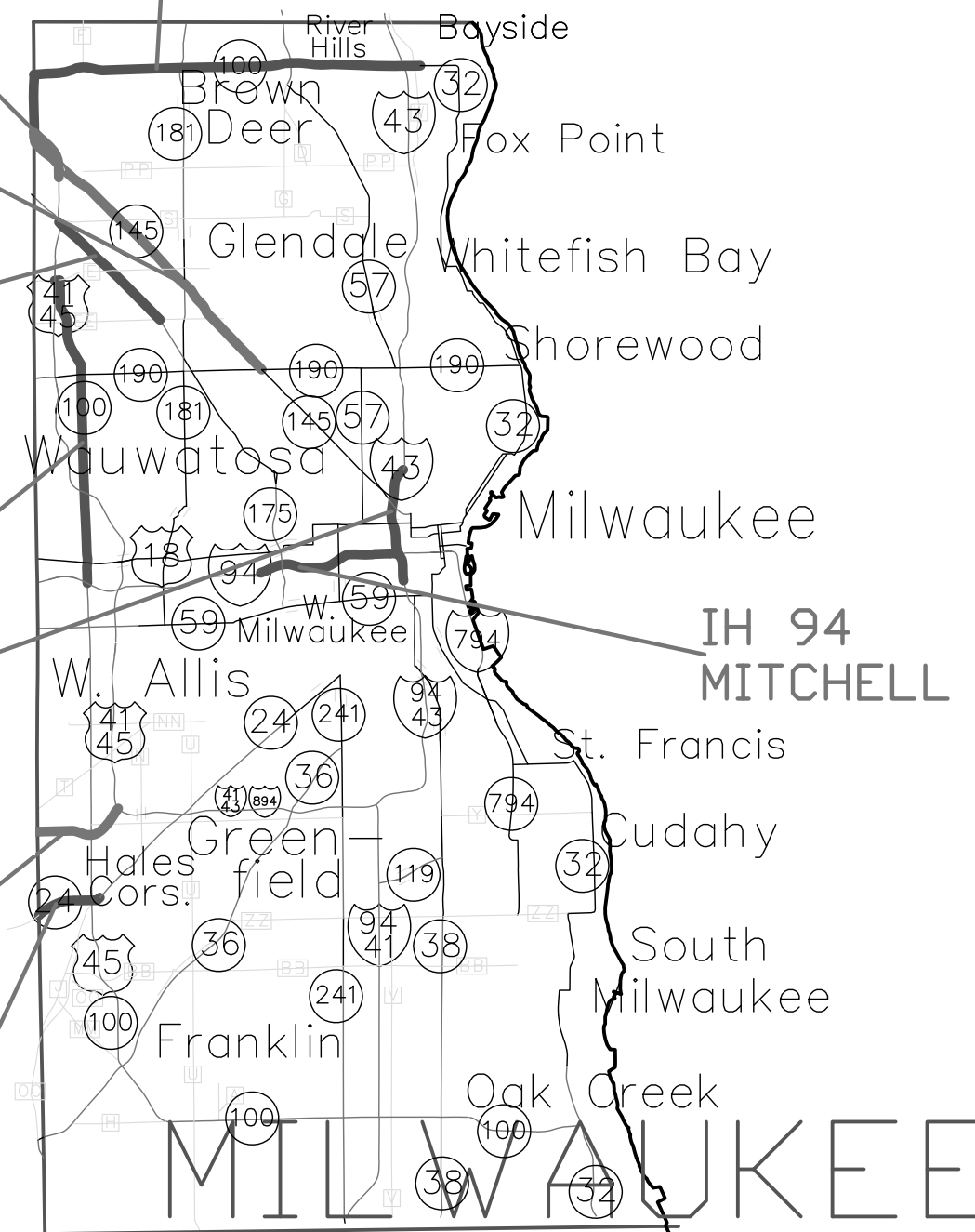


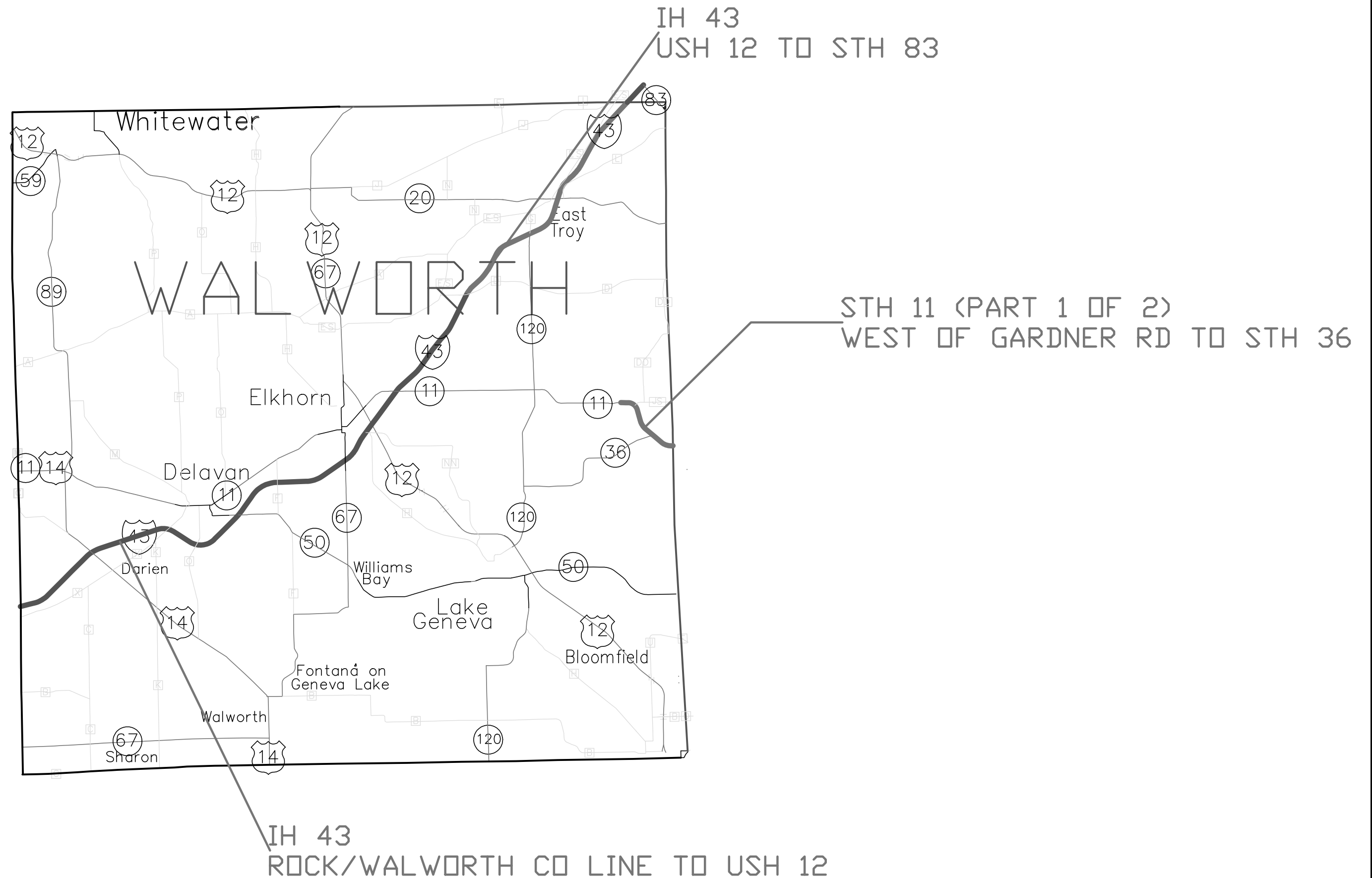


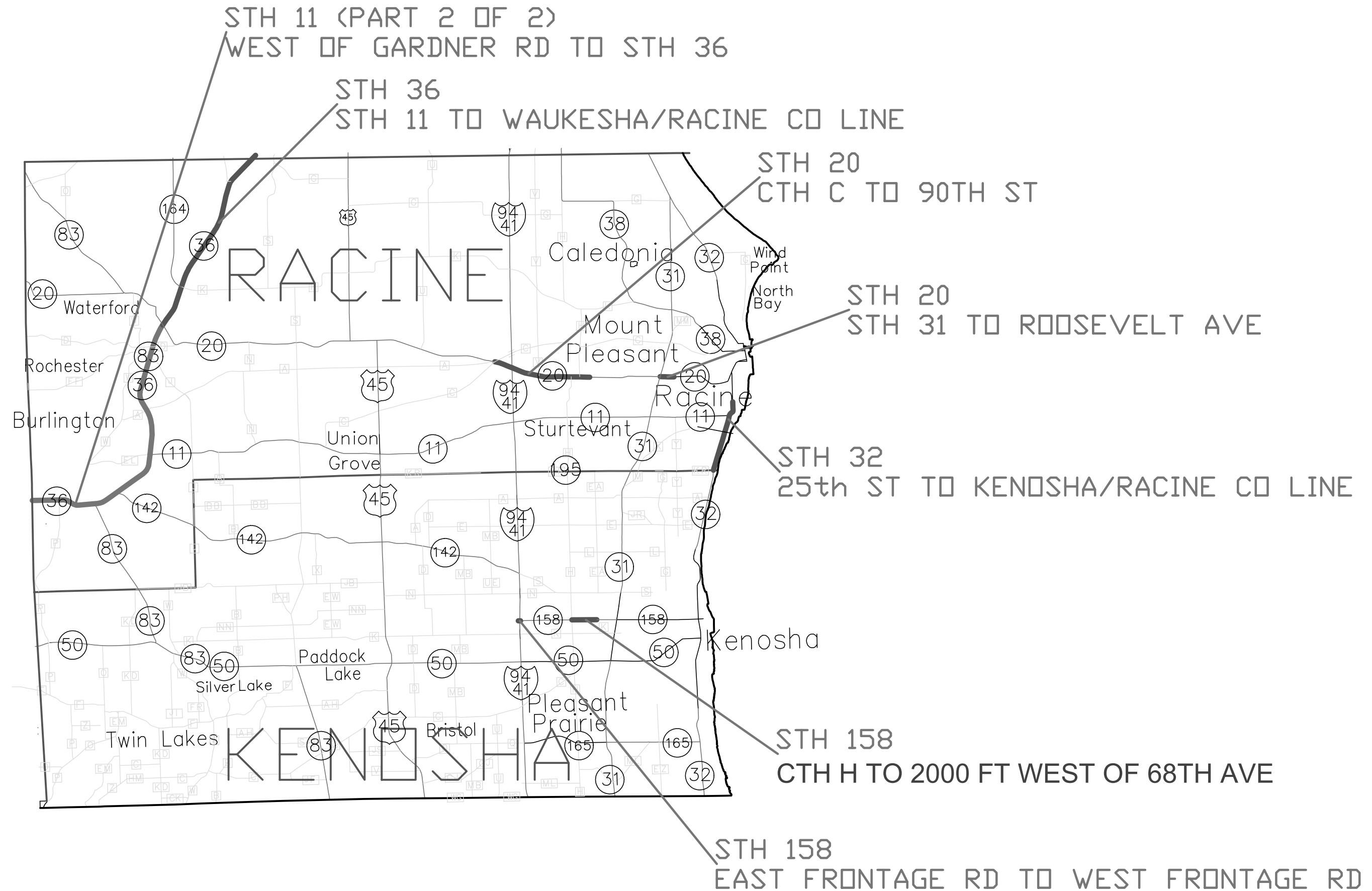


STH 24/
WAUKESHA/MILWAUKEE CO LINE TO LILAC LN

STH 100/BROWN DEER RD (PART 2 OF 2)
IH 41 TO NEAR IH 43 (PORT WASHINGTON RD)







Estimate Of Quantities

1000-77-26

Line	Item	Item Description	Unit	Total	Qty
0002	619.1000	Mobilization	EACH	1.000	1.000
0004	646.2020	Marking Line Epoxy 6-Inch	LF	3,540,692.000	3,540,692.000
0006	646.4020	Marking Line Epoxy 10-Inch	LF	273,477.000	273,477.000
0008	646.5020	Marking Arrow Epoxy	EACH	1,074.000	1,074.000
0010	646.5120	Marking Word Epoxy	EACH	548.000	548.000
0012	646.5220	Marking Symbol Epoxy	EACH	29.000	29.000
0014	646.5320	Marking Railroad Crossing Epoxy	EACH	6.000	6.000
0016	646.5420	Marking Aerial Enforcement Bar Epoxy	EACH	24.000	24.000
0018	646.6120	Marking Stop Line Epoxy 18-Inch	LF	22,483.000	22,483.000
0020	646.6220	Marking Yield Line Epoxy 18-Inch	EACH	9.000	9.000
0022	646.6320	Marking Dotted Extension Epoxy 18-Inch	LF	186.000	186.000
0024	646.7120	Marking Diagonal Epoxy 12-Inch	LF	379.000	379.000
0026	646.7420	Marking Crosswalk Epoxy Transverse Line 6-Inch	LF	48,727.000	48,727.000
0028	646.7520	Marking Crosswalk Epoxy Block Style 24-Inch	LF	905.000	905.000
0030	SPV.0060	Special 01. Traffic Control	EACH	1.000	1.000
0032	SPV.0090	Special 01. Marking Line Black Epoxy 6-Inch	LF	187,453.000	187,453.000
0034	SPV.0090	Special 02. Line Double Drop Epoxy 6-Inch	LF	802,295.000	802,295.000
0036	SPV.0090	Special 03. Line Double Drop Epoxy 10-Inch	LF	26,361.000	26,361.000

3

EPOXY LONGLINE PAVEMENT MARKING SUMMARY				646.2020 LINE EPOXY 6-INCH						646.4020 LINE EPOXY 10-INCH					SPV.0090.01 LINEBLACK EPOXY 6-INCH BLACK	SPV.0090.02 LINE DOUBLE DROP EPOXY 6-INCH			SPV.0090.03 LINE DOUBLE DROP EPOXY 10-INCH		
ROUTE	Miles	COUNTY	NEAREST CROSSROAD	CENTERLINE LF	YELLOW EDGE LINE LEFT LF	MINI DASH LF	EDGE LINE RIGHT LF	WHITE LANE LINE LF	MINI DASH LF	MINI DASH LF	RAMP LF	MAINLINE GORE LF	LEFT LANE LF	RIGHT LANE LF	LAG LF	EDGE LINE LEFT LF	EDGE LINE RIGHT LF	LANE LINE LF	MINI DASH LF	RAMP LF	MAINLINE GORE LF
STH 11	7.8	WALWORTH AND RACINE	WEST OF GARDNER RD TO STH 36		81836		74953	20800		651		2705	5322	4477							
STH 20	3.7	RACINE	CTH C TO 90TH ST		37180		37195	11774	510	1162		1011	14836	7131	11624						
STH 20	0.3	RACINE	STH 31 TO ROOSEVELT AVE				396	1200		20			1859	236	1200						
STH 24	1.4	MILWAUKEE	MILWAUKEE/WAUKESHA CO LINE TO LILAC LN				14417	3650	273			739	3282	1229							
STH 32	2.5	RACINE	25TH ST TO KENOSHA/RACINE CO LINE	637	21939		23893	5900					2940	1571							
STH 36	12.3	RACINE	STH 11 TO WAUKESHA/RACINE CO LINE		135661		138934	32600	321	1995	965	10417	6516	5609							
IH 41	10.8	MILWAUKEE, WAUKESHA, AND WASHINGTON	GOOD HOPE RD TO 41/45 SPLIT		140354	44	142561	125	700	283	10049										
IH 43	1.7	MILWAUKEE	MARQUETTE INTERCHANGE TO BROWN ST		32145		35810	275		1154	2540										
IH 43	16.1	WALWORTH	ROCK/WALWORTH COUNTY LINE TO USH 12													203276	214461		39	1628	
IH 43	16.5	WALWORTH	USH 12 TO STH 83													172602	176181	35775		1479	23215
IH 43	16.9	OZAUKEE	STH 32 TO OZAUKEE/SHEBOYGAN CO LINE		198359		198555			466	2190										
IH 43	3.5	WAUKESHA AND MILWAUKEE	CTH O/MOORLAND RD TO IH 41		38075		39568		180												
USH 45	1.6	WASHINGTON	CTH H to CTH H	5808	8660		13304			27			1624	888	13304						
STH 57	3.1	OZAUKEE	CEDARBURG RD/STH 167 TO IH 43		29200		29200	8500					6464	4888							
STH 57	8.5	OZAUKEE	IH 43 TO SHEBOYGAN/OZAUKEE CO LINE		102765		102765	26825		24			12180	6025	26825						
STH 60	5	WASHINGTON	HIGH RD TO IH 41	17610	50528		53116	13250		444	815		4300	3410							
STH 67	3.2	WAUKESHA	NORMAN DALE DR (SOUTH OF CTH DR) TO STH 16		42653	165	42488	2600		576		1115	970	835							
IH 94	7.6	WAUKESHA	STH 16 TO WAUKESHA/MILWAUKEE CO LINE		122920		132990	50014		3115	7225	22950									
IH 94	2.7	MILWAUKEE	MICHELL BLVD TO IH 43		47858		54258	15425			2388	21227									
STH 100 NB MAYFAIR RD	6	MILWAUKEE	IH 94 TO IH 41		11438		21696	9070		66			7515	1324							
STH 100 SB MAYFAIR RD	6	MILWAUKEE	IH 41 TO IH 94		10195		20408	6150		72			7147	1440							
STH 100 NB BROWN DEER RD	23.7	WAUKESHA AND MILWAUKEE	IH 41 TO PORT WASHINGTON RD		125085		125085	62500	36	1197		1605	12290	2295	62500						
STH 100 SB BROWN DEER RD	23.7	WAUKESHA AND MILWAUKEE	PORT WASHINGTON RD TO IH 41		125085		125230	62500	24	823		2115	11611	1010	62500						
STH 145	4.4	MILWAUKEE	68th ST TO NORTH OF IH 41		66335		70520		681	1824	510		325								
STH 145	2.4	MILWUAKEE AND WAUKESHA	NORTH OF IH 41 TO STH 100		17200		17200	4300		133			3475	2210							
STH 158	0.5	KENOSHA	WEST FRONTAGE RD TO EAST FRONTAGE RD		2700		2720	950		102			2405	660							
STH 158	1.2	KENOSHA	CTH H TO 2000 FT WEST OF 68TH AVE		8630		8660	2150													
STH 175	3.4	MILWAUKEE	STH 181 TO IH 41/USH 45		30626		30626	7650					2710	605							
STH 190	5	WAUKESHA	STH 164 TO BROOKFIELD RD		35750		35750	9500		543		3330	7011	4279	9500						
STH 318	2.3	WAUKESHA	USH 18 TO SOUTH OF IH 94		20260		20260														
SUBTOTAL				24055	1543437	209	1612558	357708	2725	14677	26682	67214	114782	50122	187453	375878	390642	35775	39	3107	23215
TOTAL				3540692						273477					187453	802295			26361		
PROJECT NO: 1000-77-26			HWY: VARIOUS			COUNTY: VARIOUS				MISCELLANEOUS QUANTITIES								SHEET:			E

3

EPOXY SPECIAL PAVEMENT MARKING SUMMARY			646.5020 ARROW EPOXY WHITE								646.5120 WORD EPOXY WHITE	646.5220 SYMBOL EPOXY WHITE	646.6120 STOP LINE EPOXY 18-INCH WHITE		646.6320 DOTTED EXTENSION EPOXY 18-INCH WHITE	646.7120 DIAGONAL EPOXY 12-INCH YELLOW	646.7420 CROSSWALK EPOXY TRANSVERSE 6-INCH WHITE		646.7520 CROSSWALK EPOXY BLOCK STYLE 24-INCH WHITE		646.5320 RAILROAD MARKING EPOXY WHITE	646.6220 YIELD LINE EPOXY 18-INCH WHITE
ROUTE	COUNTY	NEAREST CROSSROAD	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	HOV EACH	MAINLINE LF	INTERCHANGING ROADWAY LF	2' LINE, 2' GAP LF	MEDIAN LF	MAINLINE LF	INTERCHANGING ROADWAY LF	MAINLINE LF	INTERCHANGING ROADWAY LF	MAINLINE EACH	INTERCHANGING ROADWAY EACH
STH 11	WALWORTH AND RACINE	WEST OF GARDNER RD TO STH 36		21					2		8		152	104								9
STH 20	RACINE	CTH C TO 90TH ST	15	96		5	6				65		1169	836	110		1083	671	290			
STH 20	RACINE	STH 31 TO ROOSEVELT AVE		10					2		5		149	40			538	91				
STH 24	MILWAUKEE	MILWAUKEE/WAUKESHA CO LINE TO LILAC LN	2	15	2	5	2				6		212	199	76				340	275		
STH 32	RACINE	25TH ST TO KENOSHA/RACINE CO LINE		19							19		235	162		166	129	229				
STH 36	RACINE	STH 11 TO WAUKESHA/RACINE CO LINE		56		2			6		28		747	389			1236	730				
IH 41	MILWAUKEE, WAUKESHA, AND WASHIGNTON	GOOD HOPE RD TO 41/45 SPLIT		30		9			4		15	24	609	314			808	334				
IH 43	MILWAUKEE	MARQUETTE INTERCHANGE TO BROWN ST	2	13		4			2		9		201	301			270	212				
IH 43	WALWORTH	ROCK/WALWORTH COUNTY LINE TO USH 12		4		2		6			1		240	169			274	130				
IH 43	WALWORTH	USH 12 TO STH 83		7		6					3		269	173			262					
IH 43	OZAUKEE	STH 32 TO OZAUKEE/SHEBOYGAN CO LINE		13		9					6		254	149			388	318				
IH 43	WAUKESHA AND MILWAUKEE	CTH O/MOORLAND RD TO IH 41		2							1		44									
USH 45	WASHINGTON	CTH H to CTH H		22							8		114	153		15	284	144				
STH 57	OZAUKEE	CEDARBURG RD/STH 167 TO IH 43	5	24		2					20		472	285		95	1717	1324				
STH 57	OZAUKEE	IH 43 TO SHEBOYGAN/OZAUKEE CO LINE		42							38		82	213			312	68				
STH 60	WASHINGTON	HIGH RD TO IH 41		82							45		377	445			444	172				
STH 67	WAUKESHA	NORMANDALE DR (SOUTH OF CTH DR) TO STH 16		91							46		1019	541			3382	1954				
IH 94	WAUKESHA	STH 16 TO WAUKESHA/MILWAUKEE CO LINE	1	48		9			7		25	5	593	605			620	168				
IH 94	MILWAUKEE	MICHELL BLVD TO IH 43	2	16		5		5	2		6		411	139			474	108				
STH 100 NB MAYFAIR RD	MILWAUKEE	IH 94 TO IH 41	5	49							47		940	604		56	3057	2124				
STH 100 SB MAYFAIR RD	MILWAUKEE	IH 41 TO IH 94	1	42							37		794	460		47	2663	2054				
STH 100 NB BROWN DEER RD	WAUKESHA AND MILWAUKEE	IH 41 TO PORT WASHINGTON RD		43							20		1007	525			2857	1726			3	
STH 100 SB BROWN DEER RD	WAUKESHA AND MILWAUKEE	PORT WASHINGTON RD TO IH 41		44							25		990	529			2565	1609			3	
STH 145	MILWAUKEE	68th ST TO NORTH OF IH 41		11				1	3	2	5		233	44			200	206				
STH 145	MILWUAKEE AND WAUKESHA	NORTH OF IH 41 TO STH 100		26							13		440	271			410	332				
STH 158	KENOSHA	WEST FRONTAGE RD TO EAST FRONTAGE RD	4	14							8		261	142								
STH 175	MILWAUKEE	STH 181 TO IH 41/USH 45		4							1		805	747			3758	3161				
STH 190	WAUKESHA	STH 164 TO BROOKFIELD RD		48				4	4		24		388	199			504	403				
STH 318	WAUKESHA	USH 18 TO SOUTH OF IH 94		27							14		323	215			1362	862				
SUBTOTAL			37	919	2	58	8	16	32	2	548	29	13530	8953	186	379	29597	19130	630	275	6	9
TOTAL			1074								548	29	22483		186	379	48727		905		6	9

WALWORTH AND RACINE COUNTIES		646.2020 LINE EPOXY 6-INCH			646.4020 LINE EPOXY 10-INCH				646.5020 ARROW EPOXY WHITE		646.5120 WORD EPOXY WHITE	646.6120 STOP LINE EPOXY 18-INCH		646.6220 YIELD LINE EPOXY 18-INCH
ROUTE	NEAREST CROSSROAD	YELLOW EDGE LINE LEFT LF	WHITE EDGE LINE RIGHT LF	WHITE LANE LINE LF	MINI DASH LF	MAINLINE GORE LF	LEFT LANE LF	RIGHT LANE LF	TYPE 2 EACH	TYPE 5 EACH	ONLY EACH	MAINLINE LF	INTERCHANGING ROADWAY LF	WHITE INTERCHANGING ROADWAY EACH
STH 11 EB	END OF DIVIDED WEST OF GARDNER RD TO STH 36 CTH JS Bus 36	40995	37485	10400		1075 995								
	Yahnke Spur STH 83 STH 11/CTH E				24		680 1227 1250	340 590 540	2 5 4		1 2 2	46 60	25 24	9
STH 11 WB	STH 36 TO END OF DIVIDED WEST OF GARDNER RD STH 83 Yahnke Spur	40841	37468	10400			885 1230	732	4		2	46	55	
	Bus 36 CTH JS Driveway				627	635	50	325 1950	2 4		1			
SUBTOTAL		81836	74953	20800	651	2705	5322	4477	21	2	8	152	104	9
TOTAL			177589				13155		23		8	256		9

SKIP CTH P AND STH 142 RAMPS.

RACINE COUNTY STH 20 CTH C TO 90TH ST		646.2020 LINE EPOXY 6-INCH				646.4020 LINE EPOXY 10-INCH				SPV.0090.01 LINE BLACK EPOXY 6-INCH	646.5020 ARROW EPOXY				646.5120 WORD EPOXY	646.6120 STOP LINE EPOXY 18-INCH		646.6320 DOTTED EXTENSION EPOXY 18-INCH	646.7420 CROSSWALK EPOXY TRANSVERSE 6-INCH		646.7520 CROSSWALK EPOXY BLOCK STYLE 24-INCH
ROUTE	NEAREST CROSSROAD	YELLOW EDGE LINE LEFT LF	WHITE EDGE LINE RIGHT LF	WHITE LANE LF	MINI DASH LF	MINI DASH LF	MAINLINE GORE LF	LEFT LANE LF	RIGHT LANE LF	BLACK LAG LF	TYPE 1 EACH	TYPE 2 EACH	TYPE 3 EACH	TYPE 3R EACH	ONLY EACH	MAINLINE LF	INTERCHANGING ROADWAY LF	WHITE 2' LINE, 2' GAP LF	MAINLINE LF	INTERCHANGING ROADWAY LF	WHITE MAINLINE
STH 20 EB	Joint West of CTH C TO 90TH ST CTH C Apporach CTH C RAB Inner Circle House 14406	19070	18000	5812			245 365	147		5812	2		3 2	3	2			110			LF 65
	Greenmonte Dr Racine County Sheriff Route 20				54	33		333 242	120			2 2 2			1 1						
	West Frontage Rd IH 41 SB IH 41 NB				24	24		587 477 503	392 366		4 2	2 2			2 1 2	78 61 67	32 115				
	SE Frontage Rd Zeigler Hyundai Globe Dr/Carrington Blvd		337		54	33		873 700	469 338 534			4 6			2 1 3	64 82	49 36		294	145	
	CTH V Borzynski Farm and Floral West Rd							907 147	255 58			4			4	48	27				
	CTH H/ Renaissance Blvd Wisconsin St		161		24	18 21		209 570	272 260			4 4			2 3	65 67	84 31				
	West Lawn Memorial Park 90th St		331		42 96	27		287 585	404			2 4			2 4		64 29		231	154	
STH 20 WB	90TH ST TO CTH C 90th St 92nd St	18110	17695	5812				395		5812		2			2	49	31		235	160	
	96th St Wisconsin St CTH H/ Renaissance Blvd			150	63			425 650 1200	509 267			2 4 6			2 4 5	65 49	31 43				
	West Rd Hair Studio CTH V							135 70 750	195			2 4			1 4						
	Globe Dr/Carrington Blvd Zeigler Hyundai Hospital				60	48 36		735 341	399 301			4 2 2			2 1	53 76	25 64		275	212	
	SE Frontage Rd IH 41 NB IH 41 SB				12	231 135 27		1140 565 553	713 653		4	4 4			1 2 4	75 81 66	63 75		48		110
	Frontage Rd Route 20 Ives Groove Golf Course Dr					78		430 295 225	281			6 2 2			3 1	59	31				
	Greenmonte Dr House 14406 CTH C RAB Approach		370		45		401	210 150	345		3	4 2 2		3	2 1		35				115
SUBTOTAL		37180	37195	11774	510	1162	1011	14836	7131	11624	15	96	5	6	65	1169	836	110	1083	671	290
TOTAL		86659				24140				11624	122				65	2005		110	1754		290

RACINE COUNTY STH 20 STH 31 TO ROOSEVELT AVE		646.2020 LINE EPOXY 6-INCH WHITE		646.4020 LINE EPOXY 10-INCH WHITE			SPV.0090.01 LINE BLACK EPOXY 6-INCH BLACK LAG		646.5020 ARROW EPOXY WHITE		646.5120 WORD EPOXY WHITE	646.6120 STOP LINE EPOXY 18-INCH WHITE		646.7420 CROSSWALK EPOXY TRANSVERSE 6-INCH WHITE	
ROUTE	NEAREST CROSSROAD	EDGE LINE RIGHT LF	LANE LINE LF	MINI DASH LF	LEFT LANE LF	RIGHT LANE LF			TYPE 2 EACH	TYPE 5 EACH	ONLY EACH	MAINLINE LF	INTERCHANGING ROADWAY LF	MAINLINE LF	INTERCHANGING ROADWAY LF
STH 20 EB	STH 31 TO ROOSEVELT AVE Sycamore Ave Roosevelt Ave		600		462			600	2	2	1	47	20	192 55	
STH 20 WB	ROOSEVELT AVE TO STH 31 Roosevelt Ave Sycamore Ave STH 31	396	600		711 686			600	2 6		1 3	50 52	20	52 239	91
SUBTOTAL		396	1200	20	1859	236		1200	10	2	5	149	40	538	91
TOTAL		1596		2115				1200	12		5	189		629	

ONLY REPLACE FIRST "ONLY"

MILWAUKEE COUNTY
STH 24
WAUKESHA/MILWAUKEE CO LINE TO LILAC LN

ROUTE	NEAREST CROSSROAD	646.2020 LINE EPOXY 6-INCH			646.4020 LINE EPOXY 10-INCH			646.5020 ARROW EPOXY					646.5120 WORD EPOXY	646.6120 STOP LINE EPOXY 18-INCH		646.6320 DOTTED EXTENSION EPOXY 18-INCH	646.7520 CROSSWALK EPOXY BLOCK STLYE 24-INCH	
		WHITE			WHITE			WHITE					WHITE	WHITE		WHITE	WHITE	
		EDGE LINE RIGHT LF	LANE LINE LF	MINI DASH LF	MAINLINE GORE LF	LEFT LANE LF	RIGHT LANE LF	TYPE 1 EACH	TYPE 2 EACH	TYPE 2R EACH	TYPE 3 EACH	TYPE 3R EACH	ONLY EACH	MAINLINE LF	INTERCHANGING ROADWAY LF	2' LINE, 2' GAP LF	MAINLINE LF	INTERCHANGING ROADWAY LF
STH 24 EB	WAUKESHA/MILWAUKEE CO LINE TO LILAC LN Church 122nd St	7110	1825			41 100									13			
	Kurtz Rd Parkside Apartments Driveway					98 96 92									11			
	116th St New Berlin Rd 112th St					478 125 92	189		2				1	58	14			
	110th St 108th St Forest Home Ave			33	227	90 547	93 575		6 2	2			3	59	67		110 80	140
	Forest Home Ave RAB Pick N Save Lilac Ln			204	266	132		2	1		3					76		
STH 24 WB	LILAC LN TO WAUKESHA/MILWAUKEE CO LINE Forest Home Ave 108th St	7110	1825		246						2	2		39	63		65 85	135
	Chevy Dealer 112th St Driveway	197		36		94 94 329	197		2				1					
	116th St 118th St Boat Dealership					485 99 98	175		2				1	56	15			
	Kurtz Rd 122nd St					94 98									16			
SUBTOTAL		14417	3650	273	739	3282	1229	2	15	2	5	2	6	212	199	76	340	275
TOTAL			18340			5250				26			6		411	76		615

RACINE COUNTY
STH 32
25TH ST TO KENOSHA/RACINE CO LINE

ROUTE	NEAREST CROSSROAD	646.2020 LINE EPOXY 6-INCH				646.4020 LINE EPOXY 10-INCH		646.5020 ARROW EPOXY	646.5120 WORD EPOXY	646.6120 STOP LINE EPOXY 18-INCH		646.7120 DIAGONAL EPOXY 12-INCH	646.7420 CROSSWALK EPOXY TRANSVERSE 6-INCH	
		YELLOW		WHITE		WHITE		WHITE	WHITE	WHITE		YELLOW	WHITE	
		CENTERLINE LF	EDGE LINE LEFT LF	EDGE LINE RIGHT LF	LANE LINE LF	LEFT LANE LF	RIGHT LANE LF	TYPE 2 EACH	ONLY EACH	MAINLINE LF	INTERCHANGING ROADWAY LF	MEDIAN LF	MAINLINE LF	INTERCHANGING ROADWAY LF
STH 32 NB	RACINE/KENOSHA CO LINE TO 25TH ST CTH KR 5209	317	10782	11933	2950	52				45	34			
	5037 4941 4805					50 47 54								
	EDGEWATER DR MACEMON RD SHERIDAN RD					53 53 56	53 61 51	1 1 1	1 1 1					
	CHICORY RD CROSSOVER LARSON ST					588 51		1	1	37				
	STH 11 25TH ST					696	154 168	4 1	4 1	46		166	129	229
STH 32 SB	25TH St TO RACINE/KENOSHA CO LINE STH 11 LARSON ST	320	11157	11960	2950		542	1 1	1 1	25	23			
	CROSSOVER CHICORY RD SHERIDAN RD					52 102	250	2 1	2 1	34	44			
	MACEMON RD EDGEWATER DR 4805					97 109 51		1 1	1 1					
	4941 5037 5209 CTH KR					52 54 52 351								
SUBTOTAL		637	21939	23893	5900	2940	1571	19	19	235	162	166	129	229
TOTAL			52369			4511		19	19	397		166		358

RACINE COUNTY		646.2020 LINE EPOXY 6-INCH				646.4020 LINE EPOXY 10-INCH					646.5020 ARROW EPOXY WHITE			646.5120 WORD EPOXY WHITE	646.6120 STOP LINE EPOXY 18-INCH WHITE		646.7420 CROSSWALK EPOXY TRANSVERSE 6-INCH WHITE	
ROUTE	NEAREST CROSSROAD	YELLOW EDGE LINE LEFT LF	WHITE EDGE LINE RIGHT LF	WHITE LANE LF	MINI DASH LF	MINI DASH LF	RAMP LF	WHITE MAINLINE GORE LF	LEFT LANE LF	RIGHT LANE LF	TYPE 2 EACH	TYPE 3 EACH	TYPE 5 EACH	ONLY EACH	MAINLINE LF	INTERCHANGING ROADWAY LF	MAINLINE LF	INTERCHANGING ROADWAY LF
STH 36 NB	STH 11 to Waukesha/Racine Co Line	64488	64400	16300														
	CTH A					36		940										
	CTH A Off Ramp	965	1065				140				2	2		1	48			
	CTH A On Ramp	985	1249			72							2					
	Bus 36/Milwaukee Ave On Ramp	1845	2600					1285										
	River Rd								110	175								
	CTH J								185	175								
	CTH D/Washington Ave		265		36	36		935		265	4			2	58	17		
	STH 20/Beck Dr		195		36	36			1115	195	4			2	67	27	148	
	6th ST		450		36	66			1045	450	4			2		49		
STH 36 SB	Main St					69		895		215	4			2	55	12	240	154
	Fox Ln								85									
	STH 164/Apple Rd					51		567		175	4			2	53	25		
	Kramer Rd					72			142	140								
	Maichine Rd					48				235								
	Heg Park Rd					51			110									
	Hillcrest Rd					45				135								
	Church					45				160								
	Waste Water Treatment					39				135								
	Wind Lake Rd					78			135	190						43		
STH 36 SB	Oak Ln/Fries Ln					81			125	185								
	Loomis Rd/CTH Y					93		785		156	4			2	53	46	264	162
	Waukesha/Racine Co Line to STH 11	64488	64400	16300														
	Loomis Rd/CTH Y								890	123	4			2	46	20	238	114
	Oak Ln/Fries Ln					96			130	125								
	Wind Lake Rd					90			145	145								
	Waste Water Treatment					30			290									
	Church					36			125									
	Hillcrest Rd					39			130									
	Heg Park Rd					39				170								
STH 36 SB	Malchine Rd					42			113									
	Kramer Rd					87			140	155								
	STH 164/Apple Rd					72		820		175	4			2	60	41		
	Fox Ln					27		.		155								
	Main St					66		760		145	4			2	60	12	234	126
	6th St					30		1025		255	4			2		34		
	STH 20/Beck Dr		240		45	33				240	4			2	71	21	112	174
	CTH D/Washington Ave		140		81	63				140	4			2	60	15		
	CTH J								136	170								
	River Rd								105	190								
STH 36 SB	Bus 36/Milwaukee Ave Off Ramp	450	760			252		615			2			1				
	Bus 36/Milwaukee Ave On Ramp	1000	1425				825	940					2					
	CTH A					33		850										
	CTH A Off Ramp	715	820								4			2	52			
STH 36 SB	CTH A On Ramp	725	925		87								2					
	STH 11					42			1260	435					64	27		
SUBTOTAL		135661	138934	32600	321	1995	965	10417	6516	5609	56	2	6	28	747	389	1236	730
TOTAL		307516				25502					64			28	1136		1966	
PROJECT NO: 1000-77-26		HWY: VARIOUS				COUNTY: VARIOUS					MISCELLANEOUS QUANTITIES					SHEET:		E

MILWAUKEE, WAUKESHA AND WASHINGTON COUNTIES		646.2020 LINE EPOXY 6-INCH					646.4020 LINE EPOXY 10-INCH		646.5020 ARROW EPOXY			646.5120 WORD EPOXY	646.5520 SYMBOL EPOXY	646.6120 STOP LINE EPOXY 18-INCH		646.7420 CROSSWALK EPOXY TRANSVERSE 6-INCH	
ROUTE	NEAREST CROSSROAD	YELLOW		WHITE		MINI DASH LF	WHITE		TYPE 2 EACH	TYPE 3 EACH	TYPE 5 EACH	ONLY EACH	HOV EACH	MAINLINE LF	INTERCHANGING ROADWAY LF	MAINLINE LF	INTERCHANGING ROADWAY LF
		EDGE LINE LEFT LF	MINI DASH LF	EDGE LINE RIGHT LF	LANE LINE LF		MINI DASH LF	RAMP LF									
IH 41 NB	Good Hope Rd to 41/45 Split	56865		52000													
	STH 145 Off Ramp	1005		1230				715	6			3		59	60		
	STH 145 On Ramp	825		1190	125			1230			2			38			
	STH 100/Main St Exit 50A Off Ramp	410		895				634									
	STH 100/Main St Exit 50B Off Ramp	1325		1628													
	STH 100/Main St On Ramp	1109		3485		275		1345					8	35			
	Pilgram Rd Exit 51A Off Ramp	795		1253				210									
	Pilgram Rd Exit 51B On Ramp	360		585							2					82	
	Pilgram Rd On Ramp	650		1480												118	
	CTH Q Off Ramp	700		1030			69	555	4	2		2		63	75	126	
	CTH Q On Ramp	940		1610												92	
	Lannon Rd Off Ramp	760		1035				385	4	2		2		72			
	Lannon Rd On Ramp	740		1255		50		175									
IH 41 SB	STH 167/Holy Hill Rd Off Ramp	680		1050				200	1	1				19	53		
	STH 167/Holy Hill Rd On Ramp	1015		1590													
	41/45 Split to Good Hope Rd	56865		52000													
	STH 167/Holy Hill Rd Off Ramp	1375		1080				85						51			
	STH 167/Holy Hill Rd On Ramp	640		1260													
	Lannon Rd Off Ramp	825		1040				730	4	2		2		57	51		
	Lannon Rd On Ramp	990		1210		150											
	CTH Q Off Ramp	900		1130			20	715	4	2		2		67	75	134	
	CTH Q On Ramp	865		1540		225		710					7	36			
	Pilgram Rd Off Ramp	730		1005			134	520	6			3		36		256	334
	Pilgram Rd On Ramp	965	44	1680				270					3	36			
	STH 100/Main St Off Ramp	1275		1575				270	1			1		16			
	STH 100/Main St On Ramp	1495		2150									6	24			
	STH 145 Off Ramp	2170		2915			60	1300									
	STH 145 SB Off Ramp	3080		2660													
	STH 145 On Ramp																
SUBTOTAL		140354	44	142561	125	700	283	10049	30	9	4	15	24	609	314	808	334
TOTAL		283784					10332		43			15	24	923		1142	

DO NOT RETRACE TAPE LANE LINES OR CHANNELIZING GORE LINES

MILWAUKEE COUNTY IH 43 MARQUETTE INTERCHANGE TO BROWN ST		646.2020 LINE EPOXY 6-INCH			646.4020 LINE EPOXY 10-INCH		646.5020 ARROW EPOXY				646.5120 WORD EPOXY	646.6120 STOP LINE EPOXY 18-INCH		646.7420 CROSSWALK EPOXY TRANSVERSE 6-INCH	
ROUTE	NEAREST CROSSROAD	YELLOW	WHITE		WHITE		WHITE				ONLY	WHITE		WHITE	
		EDGE LINE LEFT LF	EDGE LINE RIGHT LF	LANE LINE LF	MINI DASH LF	RAMP LF	TYPE 1	TYPE 2	TYPE 3	TYPE 5	EACH	MAINLINE	INTERCHANGING ROADWAY	MAINLINE	INTERCHANGING ROADWAY
							LF	LF	LF	LF	LF	LF	LF	LF	LF
IH 43	Marquette Interchange to Brown St	8925	8925												
	Ramp to IH 794	1955	2445												
	Ramp to IH 94 NB	2813	2557												
	Off Ramp to Michigan St	908	1317			354	2	4			4	58	72	110	212
	Fond Du Lac Ave Off Ramp	1413	1871		138	712		4	2		2	29	102		
	Fond Du Lac Ave On Ramp	975	1698	175		541						38			
IH 43 NB	Brown St to Marquette Interchange	8925	8925								3	52	127	160	
	Fond Du Lac Ave Off Ramp	793	1108		1016	933		5	2						
	Fond Du Lac Ave On Ramp	1299	1932							2					
	Wisconsin Ave Off Ramp	283	896												
	Wisconsin Ave On Ramp	1050	1653	100								24			
	IH 794 Off Ramp	2806	2483	.											
SUBTOTAL		32145	35810	275	1154	2540	2	13	4	2	9	201	301	270	212
TOTAL		68230			3694		21				9	502		482	

DO NOT PAINT TAPE LANE LINES OR RAMP GORES

WALWORTH COUNTY		SPV.0090.02		SPV.0090.03		646.5020			646.5120	646.6120		646.7420	
IH 43		LINE DOUBLE DROP		LINE DOUBLE DROP		ARROW			WORD	STOP LINE		CROSSWALK EPOXY	
ROCK/WALWORTH COUNTY LINE TO USH 12		EPOXY 6-INCH		EPOXY 10-INCH		EPOXY			EPOXY	EPOXY 18-INCH		TRANSVERSE 6-INCH	
ROUTE	NEAREST CROSSROAD	YELLOW	WHITE	WHITE		WHITE			WHITE	WHITE		WHITE	
		EDGE LINE LEFT	EDGE LINE RIGHT	MINI DASH	RAMP	TYPE 2	TYPE 3	TYPE 4	ONLY	MAINLINE	INTERCHANGING ROADWAY	MAINLINE	INTERCHANGING ROADWAY
		LF	LF	LF	LF	EACH	EACH	EACH	EACH	LF	LF	LF	LF
IH 43 NB	Walworth/Rock County Line to Joint North of USH 12	87384	81384										
	USH 14 Off Ramp	1384	2380		170					19			
	USH 14 On ramp	1584	2455										
	CTH X Off Ramp	1637	2640		195			3		24			
	CTH X On Ramp	967	1056										
	STH 50 Off Ramp	950	2534		255					41	37	82	130
	STH 50 On Ramp	1320	2904										
	STH 67 Off Ramp	1109	2059		105	2				43	27		
	STH 67 On Ramp	950	2482										
	USH 12 EB Off Ramp	1125	1976										
	USH 12 WB Off Ramp	1115	1558										
	USH 12 EB On Ramp	1423	2116										
	USH 12 WB On Ramp	878	1781										
	Joint North of USH 12 to Rock/Walworth Co Line	87384	81384										
	USH 12 EB Off Ramp	1117	1558										
	USH 12 WB Off Ramp	1059	1715										
IH 43 SB	USH 12 WB On Ramp	1406	2163										
	USH 12 EB On Ramp	874	1573										
	STH 67 Off Ramp	1267	2270	39	266	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		262			3		21			
	CTH X On Ramp	1901	3379										
	USH 14 Off Ramp	1056	2587		155					17			
	USH 14 On ramp	1320	2851										
SUBTOTAL		203276	214461	39	1628	4	2	6	1	240	169	274	130
TOTAL		417737		1667		12			1	409		404	

DO NOT PAINT OVER TAPE LANE LINES

WALWORTH COUNTY IH 43 USH 12 TO STH 83		SPV.0090.02 LINE DOUBLE DROP EPOXY 6-INCH			SPV.0090.03 LINE DOUBLE DROP EPOXY 10-INCH		646.5020 ARROW EPOXY		646.5120 WORD EPOXY	646.6120 STOP LINE EPOXY 18-INCH		646.7420 CROSSWALK EPOXY TRANSVERSE 6-INCH
ROUTE	NEAREST CROSSROAD	YELLOW	WHITE		WHITE		WHITE		WHITE	WHITE		WHITE
		EDGE LINE LEFT LF	EDGE LINE RIGHT LF	LANE LINE LF	RAMP LF	MAINLINE GORE LF	TYPE 2 EACH	TYPE 3 EACH	ONLY EACH	MAINLINE LF	INTERCHANGING ROADWAY LF	MAINLINE LF
IH 43 NB	STH 11 TO Potters Rd	7710	7710	1925								
	North of Bowers Rd to STH 83	48576	43000	12025								
	STH 11 Off Ramp	1527	1915		88	704				15		
	STH 11 On Ramp	1085	1703			1267						
	Rest Area To Split Only	341	627			608						
	Rest Area From Split Only	1052	1709			1299						
	Bowers Rd Off Ramp	1162	1925			445				12		
	Bowers Rd On Ramp	1601	2276			1077						
	STH 120 Off Ramp	1307	2035			790				39		
	STH 120 On Ramp	1359	2273			1583						
	STH 20 Off Ramp	1762	2100		82	687				18		
	STH 20 On Ramp	1157	1762			1212						
IH 43 SB	STHS 83 Off Ramp	1012	1273		305	538	2	2	1	39	92	146
	STH 83 On Ramp	1227	1742			1043						
	STH 83 to USH 12	87009	84000	21750								
	STH 83 Off Ramp	1202	1660	75	786	903	4	2	2	61	81	
	STH 83 On Ramp	974	1590			1243						116
	STH 20 Off Ramp	1353	1649		83	590				19		
	STH 20 On Ramp	1112	1790			1354						
	STH 120 Off Ramp	1356	2346			783				35		
	STH 120 On Ramp	1862	2737			1240						
	Bowers Rd Off Ramp	1104	1488			552		1		12		
	Bowers Rd On Ramp	2397	1645			1380						
	Rest Area To Split Only	321	553			497						
IH 43 SB	Rest Area From Split Only	219	1012			1592						
	STH 11 Off Ramp	1760	2035		135	444	1	1		19		
	STH 11 On Ramp	1055	1626			1384						
	SUBTOTAL	172602	176181	35775	1479	23215	7	6	3	269	173	262
TOTAL		384558			24694		13		3	442		262

OZAUKEE COUNTY IH 43 STH 32 TO OZAUKEE/SHEBOYGAN CO LINE		646.2020 LINE EPOXY 6-INCH		646.4020 LINE EPOXY 10-INCH WHITE		646.5020 ARROW EPOXY WHITE		646.5120 WORD EPOXY WHITE	646.6120 STOP LINE EPOXY 18-INCH WHITE		646.7420 CROSSWALK EPOXY TRANSVERSE 6-INCH WHITE	
ROUTE	NEAREST CROSSROAD	YELLOW EDGE LINE LEFT LF	WHITE EDGE LINE RIGHT LF	MINI DASH LF	RAMP LF	TYPE 2 EACH	TYPE 3 EACH	ONLY EACH	MAINLINE LF	INTERCHANGING ROADWAY LF	MAINLINE LF	INTERCHANGING ROADWAY LF
IH 43 NB	North of STH 32 to Ozaukee/Sheboygan Co Line	93297	90600									
	STH 33 Off Ramp	770	1075	91	925	6	2	3	69	74	138	166
	STH 33 On Ramp	815	1480								90	
	STH 32 Off Ramp	900	1385	102	200	1	1		41			
	STH 32 On Ramp	1315	2015									
	CTH D Off Ramp	1170	1510	69	180	2	2	1	40			
IH 43 SB	CTH D On Ramp	1010	1530									
	Ozaukee/Sheboygan Co Line to North of STH 32	93297	90600									
	CTH D Off Ramp	1620	1210	51	170	2	2	1	39			
	CTH D On Ramp	910	1730									
	STH 32 Off Ramp	1030	1380	69	200				49			
	STH 32 On Ramp	760	1350									
	STH 33 Off Ramp	760	1165	84	515	2	2	1	16	75	76	152
	STH 33 On Ramp	705	1525								84	
SUBTOTAL		198359	198555	466	2190	13	9	6	254	149	388	318
TOTAL		396914		2656		22		6	403		706	

DO NOT PAINT OVER LANE LINES OR CHANNELIZING LINES(EXCEPT DOTTED EDGE LINE EXTENSIONS)

WAUKESHA AND MILWAUKEE COUNTIES IH 43 CTH O/MOORLAND RD TO IH 41		646.2020 LINE EPOXY 6-INCH			646.5020 ARROW EPOXY WHITE	646.5120 WORD EPOXY WHITE	646.6120 STOP LINE EPOXY 18-INCH WHITE
ROUTE	NEAREST CROSSROAD	YELLOW EDGE LINE LEFT LF	WHITE EDGE LINE RIGHT LF	MINI DASH LF	TYPE 2 EACH	ONLY EACH	MAINLINE LF
IH 43 NB	CTH O/MOORLAND RD TO IH 41	18220	18000				
	STH 100 Off Ramp		1468	126	2	1	44
IH 43 SB	IH 41 to CTH O/MOORLAND RD	18220	18000				
	STH 100 On Ramp	1635	2100	54			
SUBTOTAL		38075	39568	180	2	1	44
TOTAL		77823			2	1	44

DO NOT PAINT OVER LANE LINES OR CHANNELIZING LINES (DOTTED LANE LINE EXTENSIONS)

WASHINGTON COUNTY		646.2020 LINE EPOXY 6-INCH YELLOW			646.4020 LINE EPOXY 10-INCH WHITE			SPV.0090.01 LINE BLACK EPOXY 6-INCH BLACK	646.5020 ARROW EPOXY WHITE	646.5120 WORD EPOXY WHITE	646.6120 STOP LINE EPOXY 18-INCH WHITE		646.7120 DIAGONAL EPOXY 12-INCH YELLOW	646.7420 CROSSWALK EPOXY TRANSVERSE 6-INCH WHITE	
ROUTE	NEAREST CROSSROAD	CENTERLINE LF	EDGELINE LEFT LF	EDGELINE RIGHT LF	MINI DASH LF	LEFT LANE LF	RIGHT LANE LF	LAG LF	TYPE 2 EACH	ONLY EACH	MAINLINE LF	INTERCHANGING ROADWAY LF	MEDIAN LF	MAINLINE LF	INTERCHANGING ROADWAY LF
USH 45 NB	CTH H South to CTH H North	5808	4330	6652		126	159	6652					15		
	Trading Post Ln														
	Sandy Ridge Rd														
	TWLTL								4						
USH 45 SB	Prospect Dr					104			1	1					
	Timblin Dr					153			2	1					
	TWLTL								4						
	CTH H North					189			2	1	33			118	
USH 45 SB	CTH H North to CTH H South		4330	6652				6652			44	26		166	144
	CTH H					76			1	1		24			
	Timblin Dr														
	Prospect Dr					130	153		4	2					
	Sandy Ridge Rd					57									
	Trading Post Ln				27	363			2	1		38			
	CTH H/Badger Rd					426	576		2	1	37	65			
SUBTOTAL		5808	8660	13304	27	1624	888	13304	22	8	114	153	15	284	144
TOTAL			27772			2539		13304	22	8		267	15		428

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OZAUKEE COUNTY STH 57 CEDARBURG RD/STH 167 TO IH 43		646.2020 LINE EPOXY 6-INCH			646.4020 LINE EPOXY 10-INCH		646.5020 ARROW EPOXY WHITE			646.5120 WORD EPOXY WHITE	646.6120 STOP LINE EPOXY 18-INCH		646.7120 DIAGONAL EPOXY 12-INCH	646.7420 CROSSWALK EPOXY TRANSVERSE 6-INCH	
ROUTE	NEAREST CROSSROAD	YELLOW	WHITE		WHITE		TYPE 1	TYPE 2	TYPE 3	ONLY	MAINLINE	INTERCHANGING ROADWAY	YELLOW MEDIAN	MAINLINE	WHITE INTERCHANGING ROADWAY
		EDGE LINE LEFT LF	EDGE LINE RIGHT LF	LANE LINE LF	LEFT LANE LF	RIGHT LANE LF									
STH 57 NB	CEDARBURG RD/STH 167 to IH 43 PARKVIEW DR EAST GATE DR	14600	14600	4250	127 402	132		2		2	42	19			
	COUNTRY VIEW DR RIVER RD				122 340	146					42	24		182	118
	BAPTIST CHURCH CRESTLINE RD				121 116	159									
	RIVERLAND RD MULBERRY DR				119 121	148									
	SABRA CT RANGE LINE RD				120 358	133 145		2		2	48	17		202	93
	ROBIN LA CROWN CT				99	65								138	142
	LILAC LANE ORIOLE LANE				119 138	145									
	VALLEY DR MARKET ST				118 232	105								156	102
	BUSINESS ENTRANCE CTH W				429 406	391		2		2	50	60		167	231
	I-43 SB ON RAMP IH 43 NB ON RAMP				113	113	2 3	2 3	2	2 2	37		40		118
STH 57 SB	IH 43 to Cedarburg Rd/STH 167 I-43 NB ON RAMP IH-43 SB ON RAMP	14600	14600	4250							24 36				
	CTH W BMO				211 387	180		2		1	48	60		176	194
	MARKET ST VALLEY DR				390	171									
	ORIOLE LANE LILAC LANE				102	162 133								122	90
	ROBIN LN RANGE LINE RD				45 118	96 188		2		2	49	20			
	SABRA CT MULBERRY DR				113	132 125									
	RIVERLAND RD JUSTIN DR				110 110	126 279								154	85
	RIVER RD COUNTRY VIEW DR				329	146 148					48	16			
	HIGH SCHOOL EAST GATE DR					172 284		2 3		1 3	48	33		178	151
	PARKVIEW DR CEDARBURG RD/STH 167				67 320	159 444			2	2		36	55	242	
SUBTOTAL		29200	29200	8500	6464	4888	5	24	2	20	472	285	95	1717	1324
TOTAL			66900			11352		31		20		757	95		3041
PROJECT NO: 1000-77-26		HWY: VARIOUS			COUNTY: VARIOUS			MISCELLANEOUS QUANTITIES					SHEET:		E

3

OZAUKEE COUNTY
STH 57
IH 43 TO OZAUKEE/SHEBOYGAN CO LINE

ROUTE	NEAREST CROSSROAD	646.2020 LINE EPOXY 6-INCH			646.4020 LINE EPOXY 10-INCH			SPV.0090.01 LINE BLACK EPOXY 6-INCH	646.5020 ARROW EPOXY	646.5120 WORD EPOXY	646.6120 STOP LINE EPOXY 18-INCH		646.7420 CROSSWALK EPOXY TRANSVERSE 6-INCH	
		YELLOW EDGE LINE LEFT LF	WHITE EDGE LINE RIGHT LF	LANE LINE LF	MINI DASH LF	WHITE LEFT LANE LF	RIGHT LANE LF	BLACK LAG LF	WHITE TYPE 2 EACH	WHITE ONLY EACH	MAINLINE LF	WHITE INTERCHANGING ROADWAY LF	MAINLINE LF	WHITE INTERCHANGING ROADWAY LF
STH 57 NB	IH 43 to Sheboygan/Ozaukee Co Line CTH W Minon Statue	50600	50600	13200		225 130		13200	1	1				
	Willow Rd Driveway House 4385					220 125 125	215		1	1				
	Hawthorne Dr Beech Ln House 4785					215 230 125	210		2 1	2 1				
	Meadowlark Rd Farm 4964 Farm 5033					215 120 120	215		2	2				
	5246 CTH A/H Martin Dr				24	150 1100 215	755		4 1	2 1	38	27		68
	Airport Rd Field Entrance Willow Valley Rd					255 130 230	200 180		1 2	1 2				
	Turn Around Turn Around 5998					140 130								
	CTH D Field Entrance 6370					220 105 145	200		2	2				
	Hickory Groove Rd 6628 6798					215 125 125	200		1	1				
	Jay Rd Warehouse Turn Around					210 335 145	210		2	2				
	Badger Camp CTH K					110 230	350		2	2		18		
STH 57 SB	Sheboygan/Ozaukee Co Line to IH 43 CTH K Badger Camp	52165	52165	13625		345 125	340	13625	2	2		37		
	Turn Around Warehouse Jay Rd					135 135 225	210		2	2		30		
	6798 6628 Hickory Groove Rd					135 120 230								
	6370 Field Entrance CTH D					140 105 235	190 230		2	2				
	5998 Turn Around Turn Around					125 135 135								
	Willow Valley Rd Field Entrance Airport Rd					225 140 260	225							
	Martin Dr CTH A/H 5246					250 855 125	345 730		4	2	44	46 23	312	
	Farm 5033 Farm 4964 Meadowlark Rd					135 150 225								
	House 4785 Beech Ln Hawthorne Dr					140 225 225	250 255		1 2	1 2				
	House 4385 Driveway Willow Rd					130 145 235						32		
	Minon Statue CTH W					135 90	290		1	1				
	SUBTOTAL	102765	102765	26825	24	12180	6025	26825	42	38	82	213	312	68
	TOTAL	232355			18229			26825	42	38	295		380	

WASHINGTON COUNTY		646.2020 LINE EPOXY 6-INCH				646.4020 LINE EPOXY 10-INCH				646.5020 ARROW EPOXY WHITE	646.5120 WORD EPOXY WHITE	646.6120 STOP LINE EPOXY 18-INCH		6646.7420 CROSSWALK EPOXY TRANSVERSE 6-INCH	
ROUTE	NEAREST CROSSROAD	YELLOW	WHITE	WHITE	LANE LINE LF	WHITE		LEFT LANE LF	RIGHT LANE LF	TYPE 2 EACH	ONLY EACH	WHITE		MAINLINE LF	INTERCHANGING ROADWAY LF
		CENTERLINE LF	EDGE LINE LEFT LF	EDGE LINE RIGHT LF		MINI DASH LF	RAMP LF					MAINLINE LF	INTERCHANGING ROADWAY LF		
STH 60 EB	High Rd, Hartford to IH 41 TWLTL Teri Ln	3235	25264	26558	6625			125		8					
	TWLTL Franklin Dr Gas Station	1490						75 290		4 2					
	Kettle Moraine Rd TWLTL TWLTL	1010 2190				78		620	800	2 4 8	1	53	42		
	Kettle View Ct/CTH CC TWLTL Bonnie Ln	1580						70 190		1 6 2	1		29 29		
	Parkway Dr TWLTL Slinger Rd	2250						80 115		1 8 1	1				
	Industrial Dr STH 175 TWLTL	2110						55 180		1 2	1	43	78		
	Enterprise Dr STH 164 TWLTL	3745						145 215	230 105	2 3	2 2 12	44	29 31		
	IH 41 South IH 41 North						455 360	130		1	1				
STH 60 WB	IH 41 to High Rd, Hartford IH 41 North IH 41 South		25264	26558	6625	213		80	200	2 1	1 1				
	Gas Station STH 164 Enterprise Dr							150 150	100 280 195	4 3	2 2	46	22 26		
	Dove Plaza Bowling Alley Lous Way					57 63		55	50 115	1	1				
	STH 175 Industrial Dr Slinger Rd							110 80 65		1 1 3	1	37	68		
	Kettle Moraine Rd Charolais Dr Kettle View Ct/CTH CC							60 105 60	205	3 1 1	2 1 1	49	35 24	222	78
	Powder Hill Rd Kettle Moraine Rd Franklin Dr							100 760 120	820	1 4	1 2	57	32	222	94
	Teri Ln Otto Dr							115	95						
	SUBTOTAL	17610	50528	53116	13250	444	815	4300	3410	82	45	377	445	444	172
TOTAL			134504				8969			82	45	822		616	

WAUKESHA COUNTY		646.2020 LINE EPOXY 6-INCH				646.4020 LINE EPOXY 10-INCH				646.5020 ARROW EPOXY WHITE	646.5120 WORD EPOXY WHITE	646.6120 STOP LINE EPOXY 18-INCH		646.7420 CROSSWALK EPOXY TRANSVERSE 6-INCH		
ROUTE	NEAREST CROSSROAD	YELLOW		WHITE			WHITE			WHITE			WHITE			
		EDGE LINE LEFT LF	MINI DASH LF	EDGE LINE RIGHT LF	LANE LINE LF	MINI DASH LF	MAINLINE GORE LF	LEFT LANE LF	RIGHT LANE LF	TYPE 2 EACH	ONLY EACH	MAINLINE LF	INTERCHANGING ROADWAY LF	MAINLINE LF	INTERCHANGING ROADWAY LF	
STH 67 NB	Normandale Dr (South of DR) to STH 16 Distribution Ct/Summit Village Way Delafield Rd	21120 180 165		21120 180		54		190 195 305	180 235 305	4 4 4	2 2 2	39	46			
	Aurora Dr IH 94 EB IH 94 WB	68		68						4 2 4	2 1 2	29 37		100		
	Pabst Farms Cir/Oconomowoc Dr Valley Rd Oconomowoc Pkwy					124 110				4 6 4	2 3 2	66 75 58	36 77 27	330 340 286	246 240 184	
	Pabst Rd Olympia Fields Dr Robruck Dr									6 4 2	3 2 1	69 56	41	320 200	164	
	Summit Ave Old Tower Rd Old Tower Rd to STH 16				1300					2	1	33	24	140	82	
	Armour Rd STH 16						525	95								
	STH 16 to Normandale Dr (South of CTH DR) STH 16 to Old Tower Rd STH 16	21120		21120	1300		590									
STH 67 SB	Armour Rd Old Tower Rd Summit Ave					38		95 90	115	1 2	1 1	40 57	30	140 114	156	
	Lexington Dr Robruck Rd Olympia Fields Dr									2 2 4	1 1 2	52	31	188	170	
	Pabst Rd Oconomowoc Pkwy Valley Rd					88 98				4 4 6	2 2 3	59 57 79	44 57 53	264 290 332	180 202 120	
	Oconomowoc Dr IH 94 WB IH 94 EB					64				6 2 4	3 1 2	77 53 32	36	338	210	
	Delafield Rd									4	2	51	39			
	Distribution Ct/Summit Village Way									4	2					
	SUBTOTAL		42653	165	42488	2600	576	1115	970	835	91	46	1019	541	3382	1954
TOTAL		87906				3496				91	46	1560		5336		
DO NOT PAINT OVER TAPE LANE LINES OR CHANNELIZING LINES IF 3 ARROWS ARE IN EACH LANE. DO NOT REPLACE MIDDLE ARROW DO NOT PAINT STOP BARS AT YEILD SIGN LOCATIONS																
PROJECT NO: 1000-77-26			HWY: VARIOUS			COUNTY: VARIOUS			MISCELLANEOUS QUANTITIES				SHEET:		E	

WAUKESHA COUNTY
IH 94
STH 16 TO WAUKESHA/MILWAUKEE COUNTY LINE

ROUTE	NEAREST CROSSROAD	646.2020 LINE EPOXY 6-INCH			646.4020 LINE EPOXY 10-INCH			646.5020 ARROW EPOXY				646.5120 WORD EPOXY	646.5520 SYMBOLS EPOXY	646.6120 STOP LINE EPOXY 18-INCH		646.7420 CROSSWALK EPOXY TRANSVERSE 6-INCH	
		YELLOW EDGE LINE LEFT LF	WHITE EDGE LINE RIGHT LF	LANE LINE LF	MINI DASH LF	WHITE RAMP LF	MAINLINE GORE LF	TYPE 1	TYPE 2	TYPE 3	TYPE 5	ONLY	HOV	MAINLINE	INTERCHANGING ROADWAY	MAINLINE	INTERCHANGING ROADWAY
IH 94 EB	STH 16 TO Waukesha/Milwaukee Co Line	47625	47000	23500													
	STH 164 N Off Ramp	880	1870	225	386	445	1925		4	2		2		25	122		
	STH 164 N On Ramp	650	1275	125			1255							22			
	CTH F Off Ramp	880	1580		81		1090							48	81		
	CTH F On Ramp	520	1210	50		375	1365							25			
	18 East/CTH JJ	1525	2425	50	45	205	1120										
	18 West/STH 164 SB	775	665													48	
	USH 18 On Ramp	2090	1440		129	195	1910				3			24			
	Swenson Dr/Barker Rd On Ramp	745	2370	300		2040			5		2		5	91			
	CTH O/Moorland Rd Off Ramp	1375	1555	225	281	535	385		12			8		47	73	124	
	CTH O/Moorland Rd On Ramp	3175	2255	425			1355							24		46	
	CTH O/Moorland Rd On Ramp	835	2450	200		750								18			
WB	Waukesha/Milwaukee Co Line to STH 16	47625	47000	23500													
	CTH O/Moorland Rd Exit 301B Off Ramp	1100	1590		1248		1205		4			2					
	CTH O/Moorland Rd Exit 301A Off Ramp	1050	1280	66	105		330									82	
	CTH O/Moorland Rd On Ramp	1270	1790	200	30		1040				2			24	85	82	
	USH 18 East/Barker Rd Off Ramp	565	1445	473		800	865	1	11	3		6		65	87	130	168
	CD Lane	4315	2080				1300										
	USH 18 West/STH 164 Off Ramp	940	2105		48		250									36	
	USH 18 On Loop Ramp	775	965			315	470									72	
	USH 18 On Ramp	875	2360	175		445	545							40			
	CTH F Off Ramp	780	995	275	162	485	390		6	2		3		67	72		
	CTH F On Ramp	985	1780			155	1565										
	STH 164 North/CTH J Off Ramp	875	1570	150	114	480	1015		6	2		4		73	85		
	STH 164 North/CTH J On Ramp	690	1935	75			2355										
	STH 16 Off Ramp				486		1215										
SUBTOTAL		122920	132990	50014	3115	7225	22950	1	48	9	7	25	5	593	605	620	168
TOTAL		305924			33290			65				25	5	1198		788	

MILWAUKEE COUNTY IH 94 MITCHELL BLVD TO IH 43		646.2020 LINE EPOXY 6-INCH			646.4020 LINE EPOXY 10-INCH		646.5020 ARROW EPOXY					646.5120 WORD EPOXY WHITE	646.6120 STOP LINE EPOXY 18-INCH		646.7420 CROSSWALK EPOXY TRANSVERSE 6-INCH		COMMENTS
ROUTE	NEAREST CROSSROAD	YELLOW	WHITE		WHITE		TYPE 1	TYPE 2	WHITE		TYPE 5	ONLY	MAINLINE	WHITE	MAINLINE	WHITE	
		EDGE LINE LEFT LF	EDGE LINE RIGHT LF	LANE LINE LF	RAMP LF	MAINLINE GORE LF			TYPE 3 EACH	TYPE 4 EACH				INTERCHANGING ROADWAY LF		INTERCHANGING ROADWAY LF	
IH 94 EB	MITCHELL BLVD TO MARQUETTE INTERCHANGE PARKWAY DR OFF RAMP PARKWAY DR ON RAMP	15312 869 560	14312 272 359	7650	110 78	689 564		2	2			1	23 22				
	308B RAMP TO SB 175 308C RAMP TO NB 175	219 1475	1461 678			1133 977											
	ON RAMP FROM 175 NB ON RAMP FROM 175 SB	565 2251	1475 1183			1457 1796							22 24				
	35TH ST OFF RAMP 35TH ST ON RAMP	460 407	799 1231		288 248	864 1236		2	1	1		1	24 24	43	120 142		START CHANNELZING AT ARROWS.
	ST PAUL AVE OFF RAMP ST PAUL AVE ON RAMP	310 649	724 1441	50 75	95 246			2	1				36 36	48		60	
	EXIT 310A N 13TH ST EXIT 310B RAMP TO 43 NB EXIT RAMP TO 43 SB		1785 3632 2381		164	1997 1041 839		2				2	35		104	48	STOP 200' PAST WELLS ST OVERPASS
		3025 1488															
IH 94 WB	MARQUETE INTERCHANGE TO MITCHELL BLVD 35TH ST OFF RAMP	15312 951	14312 1506	7650	294	801		2		1		2	36 32	48			
	ST PAUL AVE ON RAMP PARK HILL AVE OFF RAMP PARK HILL AVE ON RAMP	694 317 549	926 480 876		82 99 300	436 747 612	2	2		3	2		12				
	308C STH 175 OFF RAMP 38B STH 175 ON RAMP	518 764	1502 1478			1699 1394							24				
	GENERAL MITCHELL BLVD OFF RAMP PARKWAY DR ON RAMP	470 693	1142 303		384	1058 607		4	1				41 20				
SUBTOTAL		47858	54258	15425	2388	21227	2	16	5	5	2	6	411	139	474	108	
TOTAL		117541			23615		30					6	550		582		

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MILWAUKEE COUNTY
STH 100/MAYFAIR RD
IH 94 TO IH 41

ROUTE	NEAREST CROSSROAD	646.2020 LINE EPOXY 6-INCH			646.4020 LINE EPOXY 10-INCH			646.5020 ARROW EPOXY		646.5120 WORD EPOXY	646.6120 STOP LINE EPOXY 18-INCH		646.7120 DIAGONAL EPOXY 12-INCH	646.7420 CROSSWALK EPOXY TRANSVERSE 6-INCH	
		YELLOW EDGE LINE LEFT LF	WHITE EDGE LINE RIGHT LF	LANE LINE LF	MINI DASH LF	WHITE LEFT LANE LF	RIGHT LANE LF	TYPE 1 EACH	TYPE 2 EACH	ONLY EACH	MAINLINE LF	INTERCHANGING ROADWAY LF	YELLOW MEDIAN LF	MAINLINE LF	WHITE INTERCHANGING ROADWAY LF
STH 100 NB	South of IH 94 to North Ave Lane Lines over Hank Aaron State Trail Bridge	11035	11035	250							44			88	
	North Ave to Capitol Dr/STH 190			5900											
	STH 190 to Silver Spring /CTH E		10348	2575											
	Silver Spring/CTH E to IH 41	403	313	345	66	258		5	2	7	95			82	
	IH 94 West								4	4	66				
	US 18/Bluemound Rd								7	5	84	133		292	266
	Wisconsin Ave								4	4	68	24		268	124
	Potter Rd/Research Rd								4	4	63	28		277	187
	Watertown Plank Rd								6	6	60	74		282	232
	Walnut Rd										48			174	
	North Ave					953	292		6	4	60	57		198	224
	Mayfair Entrance					627	260		2	1	60	43		220	186
	Mayfair Entrance					146					48	24			
	Bank					579									
	Center St					493					58	27		210	128
	Staff Works/Tempo Travel Service					393									
	2929 on Mayfair Entrance					538									
	Burleigh St					1184			6	4	48	50		222	178
	Auer Ave					203								156	
	The Forum					248									
	Townsend St					120									
	Keefe Ave					85									
	Currie Golf Course					90									
	Menomonee River Pkwy					85									
	Capitol Dr/ STH 190					498	380		6	6	60	60		218	209
	Fiebrantz Ave					110									
	House 4305					89									
	Congress St					94									
	Ruby Ave					89									
	Webster Park					84									
	Hampton Ave					268	392		2	2	36	36	56	176	156
	5085 N Lovers Ln					84									
	Silver Spring Ave /CTH E					197					42	48		194	234
SUBTOTAL		11438	21696	9070	66	7515	1324	5	49	47	940	604	56	3057	2124
TOTAL		42204			8905			54		47	1544		56	5181	

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MILWAUKEE COUNTY
STH 100/MAYFAIR RD
IH 41 TO IH 94

ROUTE	NEAREST CROSSROAD	646.2020 LINE EPOXY 6-INCH			646.4020 LINE EPOXY 10-INCH			646.5020 ARROW EPOXY		646.5120 WORD EPOXY	646.6120 STOP LINE EPOXY 18-INCH		646.7120 DIAGONAL EPOXY 12-INCH	646.7420 CROSSWALK EPOXY TRANSVERSE 6-INCH	
		YELLOW	WHITE		MINI DASH	WHITE		WHITE		WHITE	MAINLINE	WHITE	YELLOW	MAINLINE	WHITE
		EDGE LINE LEFT LF	EDGE LINE RIGHT LF	LANE LINE LF		LEFT LANE LF	RIGHT LANE LF	TYPE 1 EACH	TYPE 2 EACH	ONLY EACH		INTERCHANGING ROADWAY LF	MEDIAN LF		INTERCHANGING ROADWAY LF
STH 100 SB	IH 41 to Silver Spring/CTH E	320	343	300	72	308		1	3	3	97				
	Silver Spring /CTH E to Capitol Dr/STH 190		10190	2525											
	Capitol Dr/STH 190 to North Ave			3100											
	North Ave to South of IH 94	9875	9875												
	Lane Lines over Hank Aaron State Trail Bridge			225											
	Silver Spring Dr					96					48	48		192	176
	Image in the Mirror					88									
	Rivercourt Apartments														
	House 5004					92									
	Hampton Ave					222	377		2	2	38	38		182	180
	Courtland Ave					351									
	Ruby Ave					63									
	Congress St					98								185	92
	House 4305					92									
	Wauwatosa Fire Station					89									
	Pinelawn Memorial Park					84									
	Capitol Dr/STH 190					444	364		5	5	48	72		168	212
	Menomonee River Pkwy					100									
	Keefe Ave					74									
	Townsend St					89									
	House 3268					89									
	Auer Ave					76									
	Burleigh St					500	40		4	2	60	60		230	220
	Turn Around					280									
	Turn Around					545									
	Center St					1142					36	26		202	108
	Mayfair Entrance					405									
	Mayfair Entrance					551									
	Mayfair Entrance					612	264		2	1	48	36		226	134
	North Ave					657	395		6	4	91	60		252	220
	Watertown Plank Rd								5	5	66	30		276	248
	Potter Rd/Research Rd								4	4	73	27		264	135
	Wisconsin Ave								4	4	66	12		238	71
	US 18/Bluemound Rd								6	6	63	51		204	258
	IH 94								1	1	60		47	44	
SUBTOTAL		10195	20408	6150	72	7147	1440	1	42	37	794	460	47	2663	2054
TOTAL		36753			8659			43		37	1254		47	4717	

WAUKESHA AND MILWAUKEE COUNTIES STH 100/BROWN DEER RD IH 41 TO PORT WASHINGTON RD (EAST OF 43)		646.2020 LINE EPOXY 6-INCH				646.4020 LINE EPOXY 10-INCH				SPV.0090.01 LINE BLACK EPOXY 6-INCH BLACK LAG	646.5020 ARROW EPOXY WHITE TYPE 2 EACH	646.5120 WORD EPOXY WHITE ONLY EACH	646.6120 STOP LINE EPOXY 18-INCH WHITE		646.7420 CROSSWALK EPOXY TRANSVERSE 6-INCH WHITE		646.5320 RAILROAD MARKING EPOXY WHITE MAINLINE
ROUTE	NEAREST CROSSROAD	YELLOW EDGE LINE LEFT LF	WHITE EDGE LINE RIGHT LF	WHITE LANE LINE LF	MINI DASH LF	MINI DASH LF	GORE LF	WHITE LEFT LANE LF	RIGHT LANE LF				MAINLINE LF	INTERCHANGING ROADWAY LF	MAINLINE LF	INTERCHANGING ROADWAY LF	
STH 100 NB	IH 41 TO WASHINGTON RD IH 41 SB IH 41 NB	125085	125085	62500			310	240		62500	2	1					
	Fountain Blvd Lilly Rd Burton & Mayer Print Shop							575 130 90					49	20			
	STH 145 Boundary Rd Coca-Cola							510 395 105			2	1	54 77	48 62			
	116th St Coca-Cola Argon Industries							125 130	110								
	Milwaukee Truck Wash Lauer St CTH F/107th St							90 240	430 135		2	1	59	56	252	230	
	Driveway 96th St 95th St							85 95 190					48		184		
	Driveway 91st St Chase Bank					36		105 265 105			2		60	38	165	160	
	Octapharma Plasma 85th St Rocky Rococo					24		235 540 100			2	1	60	17	220	74	
	Menards Servite Dr STH 181 SB					12	100	175 385			2	1	28 37	29	220 176	146	
	STh 181 NB 76th Pl 70th St							180 200 310			2 2	1 1	46				
	Youngstars Child Care 68th St 66th St/Park Plaza					100		80 100 415			2	1	48	13	168	68	
	64th St 60th St 56th St					75 75		400 420			2 2	1 1	50 47	17 37	190 190 86	76 156	
	55th St Church 51st St							140 125 600	225		2 2	1	47	13	188	108	
	Arbon Dr Railroad Crossing Deerbrook Trl							165 125 175			2	1	47	15	178	132	3
	STH 57 River Ln Upper River Rd							1240 510 150	1160		6	3	89 53	52 19	274 182	216 92	
	Range Line Rd Church Congregation Emanu							420 105 615			2	1	48	34			
	Hawthorne Rd Spruce Rd Indian Hill Schoool							55 385 270			1	1					
	IH 43 SB IH 43 NB Port Washington Rd (CTH W)				36	225 150 500	650 545	195	235		6	3	60	55	184	186	
	SUBTOTAL	125085	125085	62500	36	1197	1605	12290	2295	62500	43	20	1007	525	2857	1726	3
	TOTAL	312706				17387				62500	43	20	1532		4583		3

PROJECT NO: 1000-77-26

HWY: VARIOUS

COUNTY: VARIOUS

MISCELLANEOUS QUANTITIES

SHEET: E

WAUKESHA AND MILWAUKEE COUNTIES STH 100/BROWN DEER RD IH 41 TO PORT WASHINGTON RD (EAST OF 43)		646.2020 LINE EPOXY 6-INCH				646.4020 LINE EPOXY 10-INCH				SPV.0090.01 LINE BLACK EPOXY 6-INCH BLACK LAG	646.5020 ARROW EPOXY WHITE TYPE 2 EACH	646.5120 WORD EPOXY WHITE ONLY EACH	646.6120 STOP LINE EPOXY 18-INCH WHITE		6646.7420 CROSSWALK EPOXY TRANSVERSE 6-INCH WHITE		646.5320 RAILROAD MARKING EPOXY WHITE MAINLINE EACH
ROUTE	NEAREST CROSSROAD	YELLOW EDGE LINE LEFT LF	EDGE LINE RIGHT LF	WHITE LANE LINE LF	MINI DASH LF	MINI DASH LF	GORE LF	LEFT LANE LF	RIGHT LANE LF				MAINLINE LF	INTERCHANGING ROADWAY LF	MAINLINE LF	INTERCHANGING ROADWAY LF	
STH 100 SB	Port Washington Rd to IH 41 Port Washington Rd (CTH W) IH 41 NB IH 41 SB	125085	125085	62500		200	430 495			62500			51	51	200	228	
	Indian Hill Schoool Spruce Rd Hawthorne Rd							270 385 115			1 1 1	1 1 1					
	River Rd Congregation Emanu/Lynden Sculpture Range Line Rd							100 390 570			1 2	1 1		52 25			
	Upper River Rd Kildeer Ct STH 57				24	69	450	50 520 300	600		1 6	1 3	46 78	25 41	194 228	126 168	
	Deerwood Dr Badger Meter Arbon Dr							140 125 81			1	1	12	23			3
	ETE Reman 51st ST Courtyard Milwaukee					30		105 545 65			2	1	50	25	198	112	
	60th St 64th St Park Plaza Ct		145			48 59		450 385 300	200		2 4 2	1 2 1	54 60 49	33 25 32	204 218 178	69 106 220	
	68th St Eagle Flair Graphics 70th St							165 170	95								
	76th PI STH 181 NB STH 181 SB					36	85	185 175			2	1	36 45		176		
	Servite Dr Dunkin Donuts Wendys					57		725 290 130			2	1	56		196		
	85th St Battle Time USA Office Furniture					24		455 150 100			2	1	62	23	115	94	
	91st ST Collison Center 95th St					57		410 95 215			4	2	55 40	40 19	196 204	164 84	
	Gas Station STH 100/107th St Lauer St							130 265 200	115				73	46	258	238	
	Great Lakes Coca Cola Great Lakes Coca Cola 124th S/STH 145							100 100 565			4	2	65	48			
	Westbroook Crossing Old Orchard Rd/STH 145 Executive Pkwy							220 575 145					55	44			
	Esquire Rd Burton Mayer Lilly Rd							105 95 90									
	Car Dealership Fountain Blvd IH 41 NB					105	460	235 245			2	1	51	29			
	From IH 41 NB IH 41 SB Polk Dr					138	195	200 180			2 2	1 1					
	SUBTOTAL	125085	125230	62500	24	823	2115	11611	1010	62500	44	25	990	529	2565	1609	3
	TOTAL		312839				15559			62500	44	25	1519		4174		3

PROJECT NO: 1000-77-26

HWY: VARIOUS

COUNTY: VARIOUS

MISCELLANEOUS QUANTITIES

SHEET:

E

MILWAUKEE COUNTY
STH 145
68TH ST TO MILE 11.6 (North of 41)

ROUTE	NEAREST CROSSROAD	646.2020 LINE EPOXY 6-INCH			646.4020 LINE EPOXY 10-INCH			646.5020 ARROW EPOXY WHITE				646.5120 WORD EPOXY WHITE	646.6120 STOP LINE EPOXY 18-INCH WHITE		646.7420 CROSSWALK EPOXY TRANSVERSE 6-INCH WHITE	
		YELLOW EDGE LINE LEFT LF	WHITE EDGE LINE RIGHT LF	MINI DASH LF	MINI DASH LF	RAMP LF	LEFT LANE LF	TYPE 2 EACH	TYPE 4 EACH	TYPE 5 EACH	TYPE 7 EACH	ONLY EACH	MAINLINE LF	INTERCHANGING ROADWAY LF	MAINLINE LF	INTERCHANGING ROADWAY LF
STH 145 NB	68th St to Mile 11.6 Fond Du Lac Ave	24975	22900					4				2	24			
	STH 181 Off Ramp	1545	610		45											
	Grantosa Dr to STH 181	1210	1960		135											
	STH 181 On Ramp	780	1925													
	Silver Spring Dr Off Ramp	820	1270		273											
	Silver Spring Dr On Ramp	1275	1510													
	91st St Off Ramp	775	1220	132												
	Green Tree Rd Off Ramp	175	615		129											
	Green Tree Rd On Ramp	60	400													
	107th St Off Ramp	1300	1900		162								19			
STH 145 SB	Park Pl Off Ramp	1295	505			265		4		1	2	2	46			
	Good Hope Rd to Park Pl	695	1940	174												
	IH 41	1610	2700		78											
	Fond Du Lac Ave/Crossover Pass						325	2				1				
	Mile 11.6 to 68th St	24975	22900													
	107th St Off Ramp	290	720		354			1								
	107th ST On Ramp	320	700							1						
	91st St Off Ramp	415	805	156	159				1				18			
	91st St On Ramp	1080	1515	87		115				1						
	Silver Spring Dr Off Ramp	880	1210	132												
STH 145 SB	Silver Spring Dr On Ramp	450	570													
	STH 181 Off Ramp	495	835		246								22			
	STH 181 On Ramp	680	1035													
	Grantosa Dr Off Ramp	235	775		243								23			
	Fond Du Lac Ave												25			
	68th St					130							56	44	200	206
	SUBTOTAL	66335	70520	681	1824	510	325	11	1	3	2	5	233	44	200	206
	TOTAL		137536			2659			17			5		277		406

MILWAUKEE AND WAUKESHA COUNTIES
STH 145
MILE 11.6 (North of 41) to STH 100

ROUTE	NEAREST CROSSROAD	646.2020 LINE EPOXY 6-INCH			646.4020 LINE EPOXY 10-INCH			646.5020 ARROW EPOXY WHITE TYPE 2 EACH	646.5120 WORD EPOXY WHITE ONLY EACH	646.6120 STOP LINE EPOXY 18-INCH		646.7420 CROSSWALK EPOXY TRANSVERSE 6-INCH	
		YELLOW EDGE LINE LEFT LF	WHITE EDGE LINE RIGHT LF	LANE LINE LF	MINI DASH LF	WHITE LEFT LANE LF	RIGHT LANE LF			MAINLINE LF	WHITE INTERCHANGING ROADWAY LF	MAINLINE LF	WHITE INTERCHANGING ROADWAY LF
STH 145 NB	MILE 11.6 TO STH 100 Fond Du Lac Ave North 41/45	8600	8600	2150		290 250	290	4 2	2 1	76 38			
	Bradley Rd Sams Club Dretzka Pk Dr					125	185 760	4	2	41 50	57 21		
	Old Orchard Rd Westbrook Crossing STH 100					405 130 335	400	2	1	63	68		
STH 145 SB	STH 100 to MILE 11.6 STH 100 Old Orchard Rd	8600	8600	2150			120			46	77		
	Dretzka Pk Dr Sams Club Bradley Rd					90 255 460	320	4 4	2 2	49 52	48	176 234	120 212
	IH 41/45 Fond Du Lac Ave Crossover Pass				133	320 445 370	135	4 2	2 1	25			
SUBTOTAL		17200	17200	4300	133	3475	2210	26	13	440	271	410	332
TOTAL			38700			5818		26	13	711		742	

KENOSHA COUNTY STH 158 WEST FRONTAGE RD TO EAST FRONTAGE RD		646.2020 LINE EPOXY 6-INCH			646.4020 LINE EPOXY 10-INCH			646.5020 ARROW EPOXY		646.5120 WORD EPOXY	646.6120 STOP LINE EPOXY 18-INCH	
ROUTE	NEAREST CROSSROAD	YELLOW EDGE LINE LEFT LF	WHITE EDGE LINE RIGHT LF	LANE LINE LF	MINI DASH LF	WHITE LEFT LANE LF	RIGHT LANE LF	TYPE 1 EACH	TYPE 2 EACH	WHITE ONLY EACH	MAINLINE LF	WHITE INTERCHANGING ROADWAY LF
STH 158 EB	West Frontage Rd to East Frontage Rd	1350	1360	475	24	315	375	2	2	2	41	
	IH 41 SB					435			2	1	55	54
	East Frontage Rd					230			2	1		
STH 158 EWB	East Frontage Rd to West Frontage Rd	1350	1360	475	42	490	285	2	2	1	53	
	IH 94 NB				36	240			2	1	61	30
	IH 94 SB					695			4	2	51	58
SUBTOTAL		2700	2720	950	102	2405	660	4	14	8	261	142
TOTAL			6370			3167		18		8	403	

KENOSHA COUNTY STH 158 CTH H TO EAST OF WEST OF 68TH AVE		646.2020 LINE EPOXY 6-INCH		
ROUTE	NEAREST CROSSROAD	YELLOW EDGE LINE LEFT LF	WHITE EDGE LINE RIGHT LF	LANE LINE LF
STH 158 EB	CTH H TO 2000 FT WEST OF 68TH AVE	4330	4330	1075
STH 158 WB	2000 FT WEST OF 68TH AVE TO CTH H	4300	4330	1075
SUBTOTAL		8630	8660	2150
TOTAL			19440	
DO NOT PAINT SPECIAL MARKINGS				

MILWAUKEE COUNTY STH 175 76TH ST/STH 181 TO IH 41/45		646.2020 LINE EPOXY 6-INCH			646.4020 LINE EPOXY 10-INCH		646.5020 ARROW EPOXY	646.5120 WORD EPOXY	646.6120 STOP LINE EPOXY 18-INCH		646.7420 CROSSWALK EPOXY TRANSVERSE 6-INCH	
ROUTE	NEAREST CROSSROAD	YELLOW	WHITE		WHITE		WHITE TYPE 2	WHITE ONLY	WHITE		WHITE	
		EDGE LINE LEFT LF	EDGE LINE RIGHT LF	LANE LINE LF	LEFT LANE LF	RIGHT LANE LF			MAINLINE LF	INTERCHANGING ROADWAY LF	MAINLINE LF	INTERCHANGING ROADWAY LF
STH 31 NB	76th St/STH 181 to IH 41/45	15313	15313	3825								
	76th St/STH 181				80	340			99	81	339	338
	Congress St				210				51	42	229	155
	CTH EE/Hampton Ave				475				54	76	245	286
	Grantosa Dr				120				44	45	198	192
	91st St				125				65	75	260	284
	El Greco Restaurant				85							
	Timmer Airport				95							
	Timmer Airport				100							
	Silver Springs Dr EB					30					198	74
STH 31 SB	Silver Springs Dr WB				190		2	1			29	71
	Carman Ave								39	26	156	133
	Bobolink Ave				25							
	107th St				100				44	32	94	131
	IH 41/45 to 76th St/STH 181	15313	15313	3825								
	107th St				110				47	25	190	106
	Bobolink Ave				70							
	Carmen Ave				145				45		187	
	Silver Springs Dr WB					25					271	72
	Silver Springs Dr EB				190		2			33		76
	91st St				90				70	75	283	290
	Grantosa Dr				100				46	46	200	194
	CTH EE/Hampton Ave				160				49	57	300	228
	Congress St				160				53	52	224	173
	76th St/STH 181				80	210			99	82	355	358
SUBTOTAL		30626	30626	7650	2710	605	4	1	805	747	3758	3161
TOTAL			68902			3315	4	1		1552		6919

WAUKESHA COUNTY
STH 190
1/2 MILE EAST OF STH 164 TO BROOKFIELD RD

ROUTE	NEAREST CROSSROAD	646.2020 LINE EPOXY 6-INCH			646.4020 LINE EPOXY 10- INCH				SPV.0090.01 LINE BLACK EPOXY 6-INCH BLACK LAG LF	646.5020 ARROW EPOXY WHITE			646.5120 WORD EPOXY WHITE ONLY EACH	646.6120 STOP LINE EPOXY 18-INCH WHITE		646.7420 CROSSWALK EPOXY TRANSVERSE 6-INCH WHITE	
		YELLOW EDGE LINE LEFT LF	WHITE EDGE LINE RIGHT LF	LANE LINE LF	Mini Dash LF	MAINLINE GORE LF	LEFT LANE LF	RIGHT LANE LF		TYPE 2 EACH	TYPE 4 EACH	TYPE 5 EACH		MAINLINE LF	INTERCHANGING ROADWAY LF	MAINLINE LF	INTERCHANGING ROADWAY LF
STH 190 EB	1/2 Mile East of STH 164 to Brookfield Rd	17875	17875	4750			350	350	4750	2			1		42		
	Hunters Ridge Rd				120	720					2						
	STH 190 Off					860						2					
	Wethersfield Rd						350										
STH 190 WB	Springdale Rd/Gumina Rd						555	360		4			2	51	28		
	Gateway Rd						245	345		2			1				
	7-11/ Culvers						400										
	Vet Clinic						155										
	Gumina						430			2			1				
	Barker Rd/CTH Y							530		2			1	50	24		
STH 190 WB	Michel Park Dr							345		2			1		24		
	Richland Pkwy						710	335		4			2				
	Brookfield Rd						699	317		4			2	69	14	244	205
									4750								
STH 190 WB	Brookfield Rd to 1/2 Mile East of STH 164	17875	17875	4750					4750					74	28	260	198
	Brookfield Rd									4			2				
	Richland Pkwy						599	347									
	Michel Park Dr						480			4			2	54			
STH 190 WB	CTH Y/ Barker Rd				61		195			4			2				
	Gumina						250	340		4			2				
	7-11/ Culvers									2			1				
	Gateway Rd						410	340									
STH 190 WB	Springdale Rd/Gumina Rd				83	270	440	330		6			3	66	39		
	Wethersfield Rd						375	340		2			1				
	STH 190 Off				99	720				4	2		2	24			
	STH 190 On				180	760						2					
STH 190 WB	Hunters Ridge Rd						368										
SUBTOTAL		35750	35750	9500	543	3330	7011	4279	9500	48	4	4	24	388	199	504	403
TOTAL		81000			15163				9500	56			24	587		907	

DO NOT PAINT FIRST ONLY.

WAUKESHA COUNTY
STH 318
USH 18 TO ROLLING RIDGE DR (SOUTH OF 94)

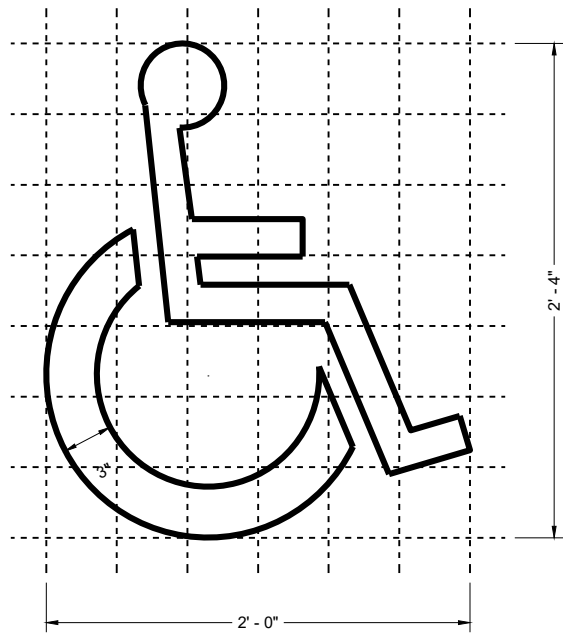
ROUTE	NEAREST CROSSROAD	646.2020 LINE EPOXY 6-INCH		646.5020 ARROW EPOXY WHITE	646.5120 WORD EPOXY WHITE	646.6120 STOP LINE EPOXY 18-INCH WHITE		646.7420 CROSSWALK EPOXY TRANSVERSE 6-INCH WHITE	
		YELLOW EDGE LINE LEFT LF	WHITE EDGE LINE RIGHT LF	TYPE 2 EACH	ONLY EACH	MAINLINE LF	INTERCHANGING ROADWAY LF	MAINLINE LF	INTERCHANGING ROADWAY LF
STH 318 NB	USH 18 TO IH 94	10130	10130			42	44	276	218
	USH 18 Grocery Store			3	2				
	Coldwater Creek Dr			4	2				
STH 318 SB	Northview Rd			4	2	67	40	218	128
	Rolling Ridge Dr					50	24	166	92
	IH 94 TO USH 18	10130	10130						
	Rolling Ridge Dr					55	20	206	94
	Northview Rd			4	2	65	31	220	104
	Coldwater Creek Dr			4	2				
	Grocery Store			4	2				
	USH 18			4	2	44	56	276	226
SUBTOTAL		20260	20260	27	14	323	215	1362	862
TOTAL		40520		27	14	538		2224	

DO NOT PAINT TAPE LANE LINES OR CHANNELIZING LINES

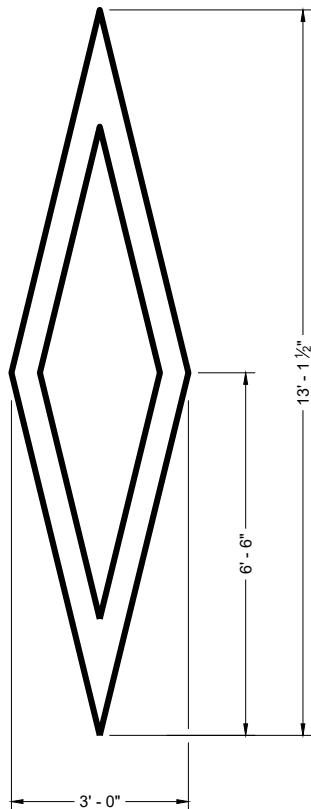
UNDISTRIBUTED QUANTITIES	
619.1000 Mobilization	1
SPV.0060.01 Traffic Control	1
646.5420 Marking Line Aerial Enforcement Bars	24

Standard Detail Drawing List

15C07-16A	PAVEMENT MARKING SYMBOLS
15C07-16B	PAVEMENT MARKING WORDS
15C07-16C	PAVEMENT MARKING ARROWS
15C07-16D	ROUNDBABOUT ARROWS
15C07-16E	PAVEMENT MARKING FOR BIKE LANES
15C08-24A	PERMANENT LONGITUDINAL PAVEMENT MARKINGS
15C08-24C	PAVEMENT MARKING (TURN LANES)
15C08-24D	PAVEMENT MARKING (TURN LANES)
15C09-13A	SIGNING AND PAVEMENT MARKING DETAILS FOR RAILROAD-HIGHWAY GRADE CROSSINGS
15C09-13B	TRUCK STOPPING LANE PAVEMENT MARKINGS
15C14-05	AERIAL ENFORCEMENT BARS PAVEMENT MARKING DETAILS
15C18-09A	MEDIAN ISLAND PAVEMENT MARKINGS
15C18-09B	PAVEMENT MARKINGS, MEDIAN ISLAND NOSE
15C18-09C	MEDIAN PAVEMENT MARKINGS DOUBLE ARROW WARNING SIGN PLACEMENT
15C19-10A	MOVING PAVEMENT MARKING OPERATION TWO-LANE TWO-WAY ROADWAY
15C19-10B	MOVING PAVEMENT MARKING OPERATION MULTI-LANE UNDIVIDED ROADWAY
15C19-10C	MOVING PAVEMENT MARKING OPERATION MULTI-LANE DIVIDED ROADWAY
15C20-02	YIELD MARKING
15C21-11	SIGNING AND MARKING FOR TWO LANE TO FOUR LANE DIVIDED TRANSITIONS
15C29-08A	BICYCLE LANE MARKING
15C29-08B	PAVEMENT MARKING FOR SHARED LANE 35 MPH OR LESS
15C31-08A	PAVEMENT MARKING EXIT RAMP AND PARALLEL EXIT RAMP
15C31-08B	PAVEMENT MARKING MAJOR SPLIT FREEWAY TO FREEWAY
15C31-08C	PAVEMENT MARKING ENTRANCE RAMP AND PARALLEL ENTRANCE RAMP
15C31-08D	PAVEMENT MARKING LANE DROP AND LANE REDUCTION
15C33-05	STOP LINE AND CROSSWALK PAVEMENT MARKING
15C35-06A	PAVEMENT MARKING (INTERSECTIONS)
15C35-06B	PAVEMENT MARKING AND SIGNING (CLIMBING LANE & PASSING LANE)
15C35-06C	PAVEMENT MARKING AND SIGNING (CLIMBING LANE & PASSING LANE)
15D12-15A	TRAFFIC CONTROL, VEHICLE ENTRANCE/EXIT OR HAUL ROAD
15D20-10A	TRAFFIC CONTROL, SINGLE LANE CLOSURE, DIVIDED NON-FREEWAY/EXPRESSWAY
15D20-10B	TRAFFIC CONTROL, SINGLE RIGHT LANE CLOSURE, UNDIVIDED NON-FREEWAY/EXPRESSWAY
15D20-10C	TRAFFIC CONTROL, SINGLE LEFT LANE CLOSURE, UNDIVIDED NON-FREEWAY/EXPRESSWAY
15D27-04	TRAFFIC CONTROL, SHOULDER CLOSURE ON DIVIDED ROADWAY, SPEEDS GREATER THAN 40 MPH
15D37-03	TRAFFIC CONTROL, 2-LANE ROUNDBABOUT
15D43-02	TRAFFIC CONTROL, SHORT DURATION MOBILE OPERATIONS
15D50-04A	TRAFFIC CONTROL, ADDED LANE CLOSURE WITHOUT LANE SHIFT
15D50-04B	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

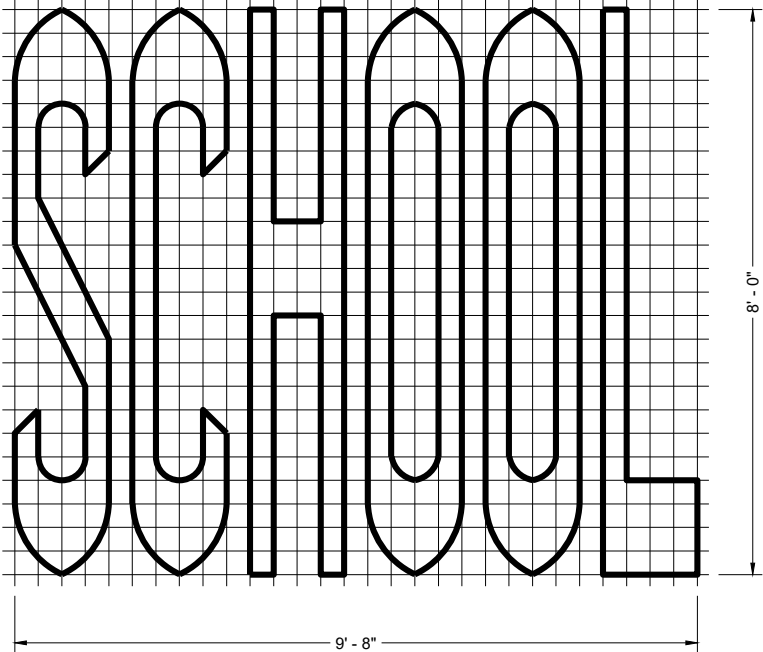
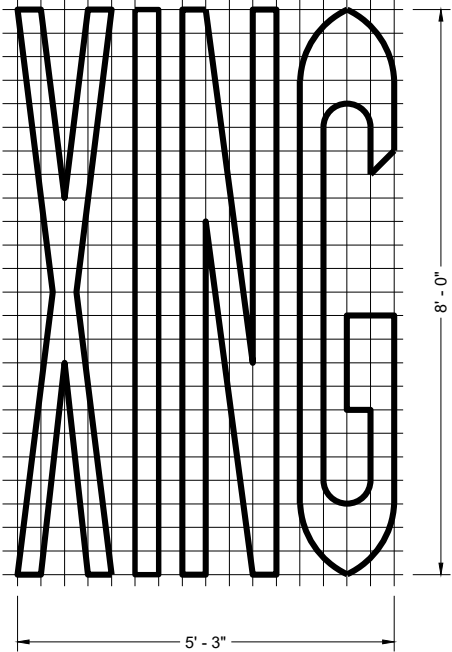
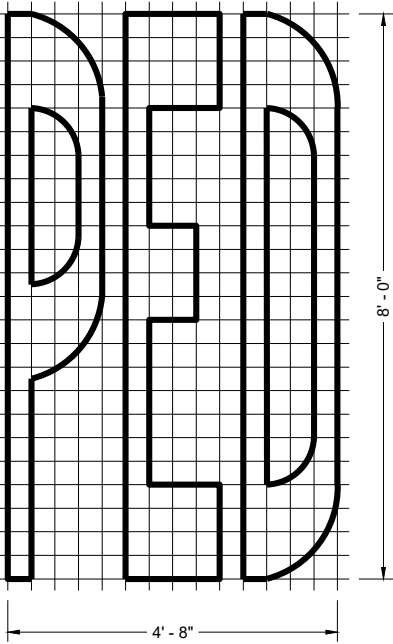
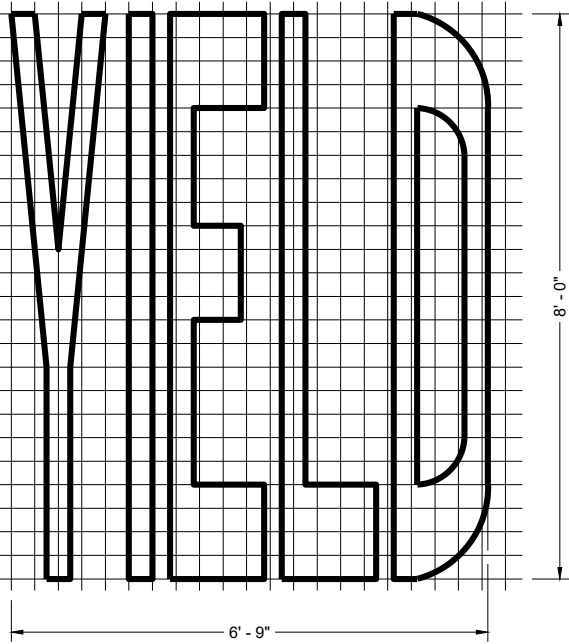
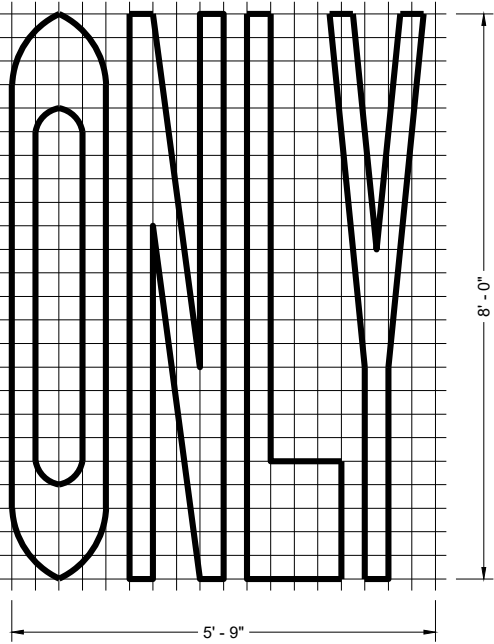
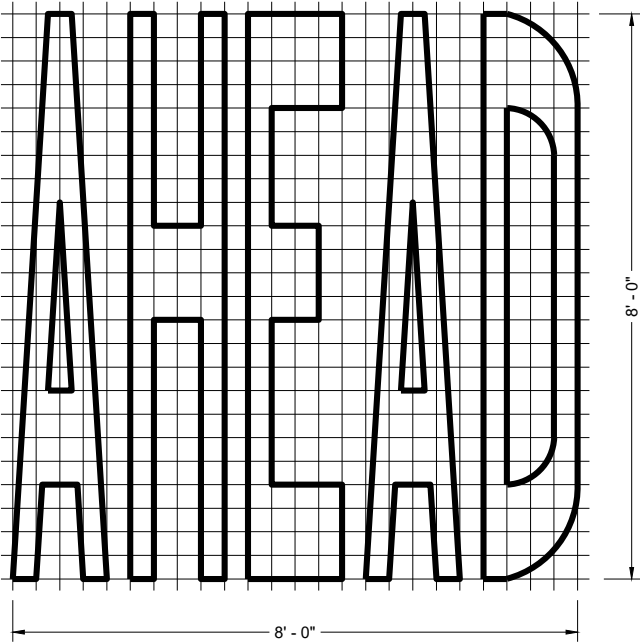
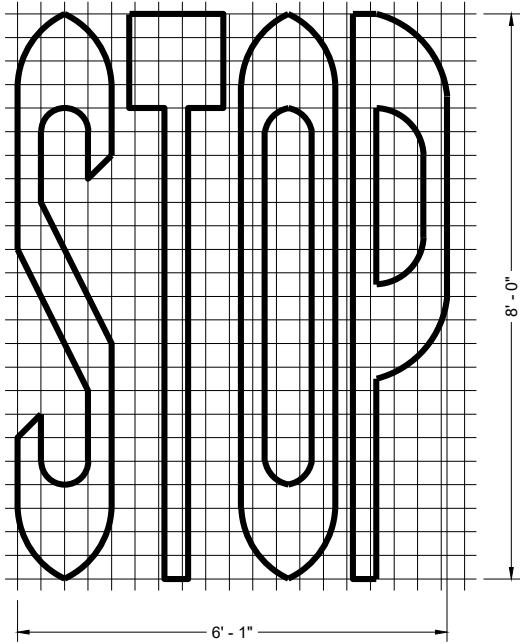
DETAILS OF INSTALLATION, MATERIALS AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS AND APPLICABLE SPECIAL PROVISIONS.

PAVEMENT MARKING SYMBOLS

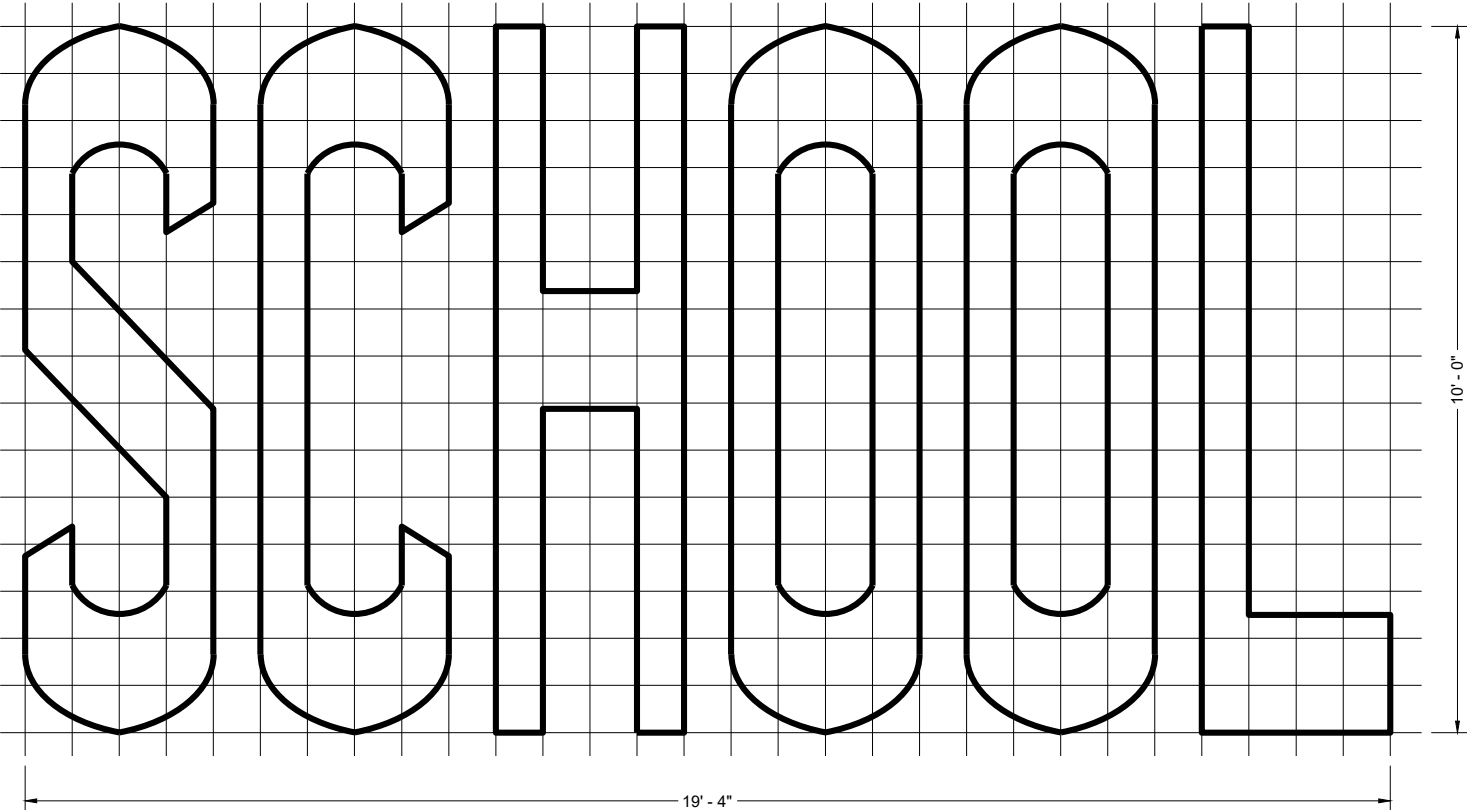
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

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

FHWA



SINGLE LANE

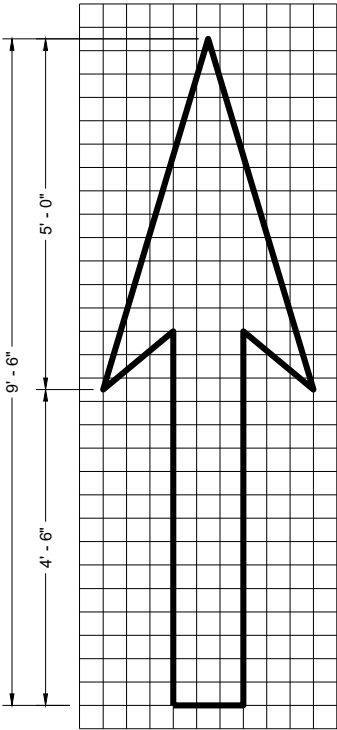


TWO - LANE

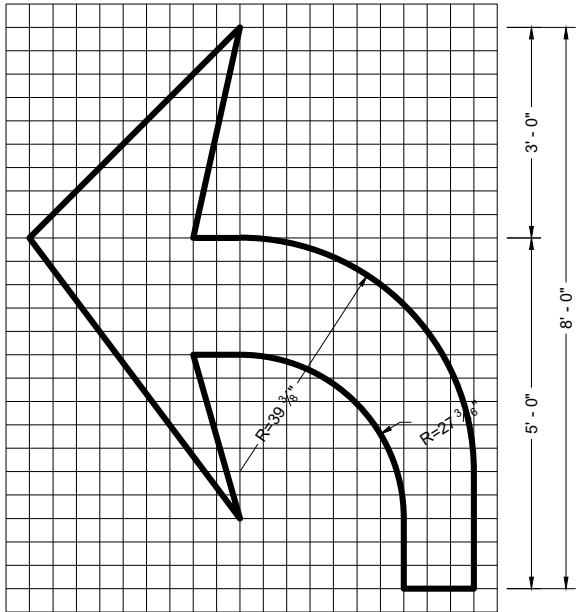
GENERAL NOTES

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.

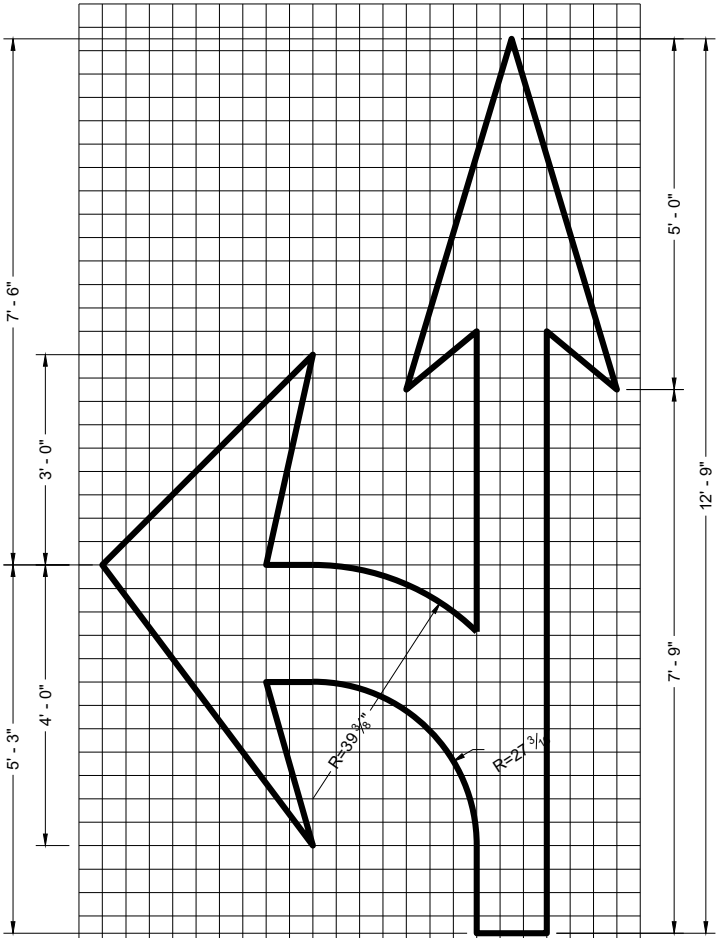
PAVEMENT MARKING WORDS	
STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION	
APPROVED November 2024 DATE	/S/ Matthew Rauch STATE SIGNING AND MARKING ENGINEER
FHWA	



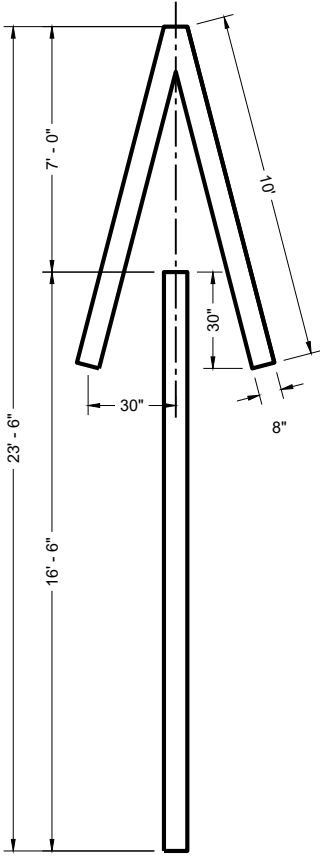
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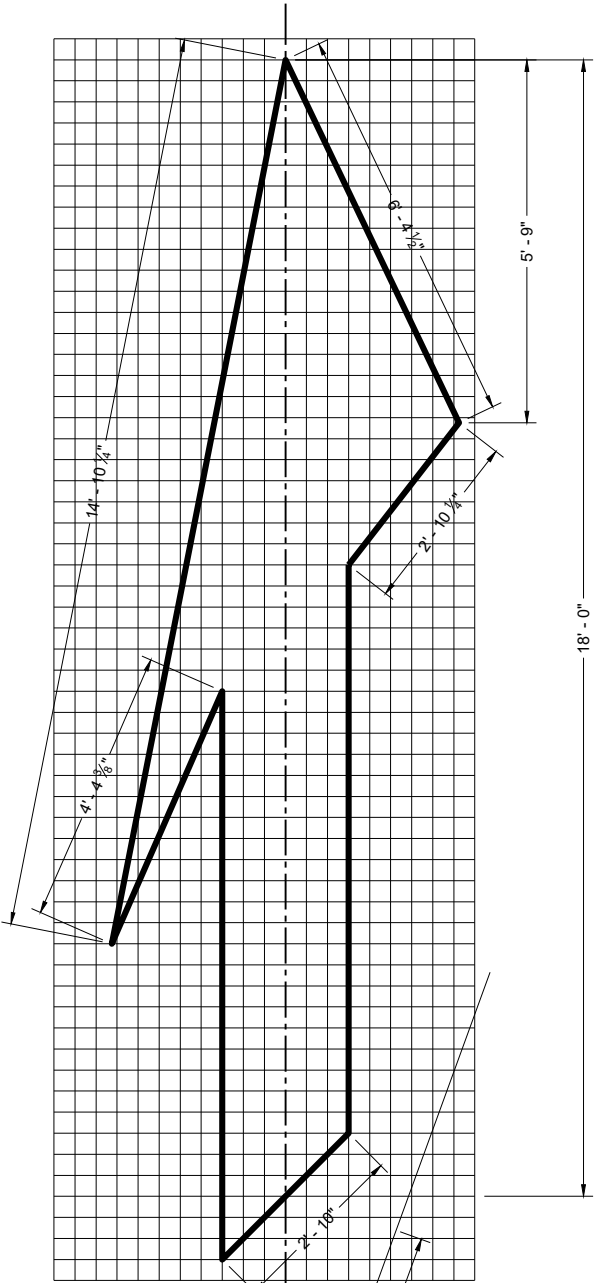
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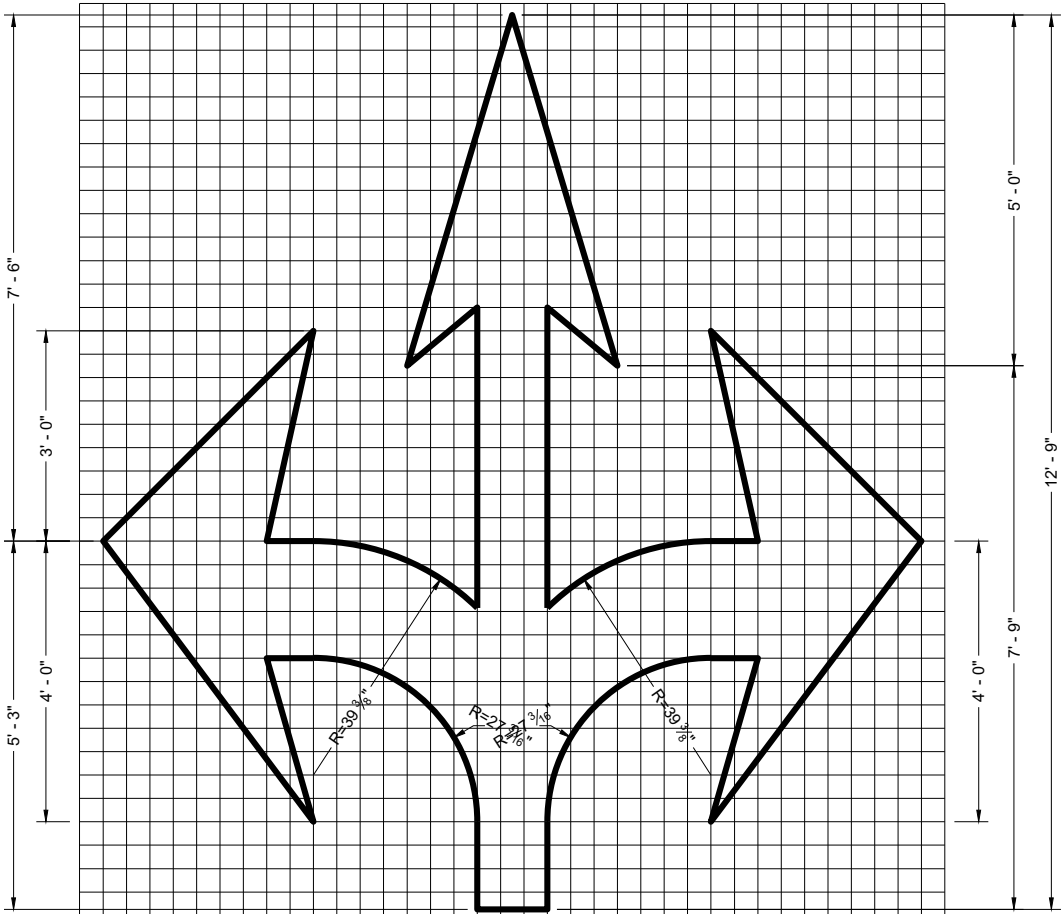
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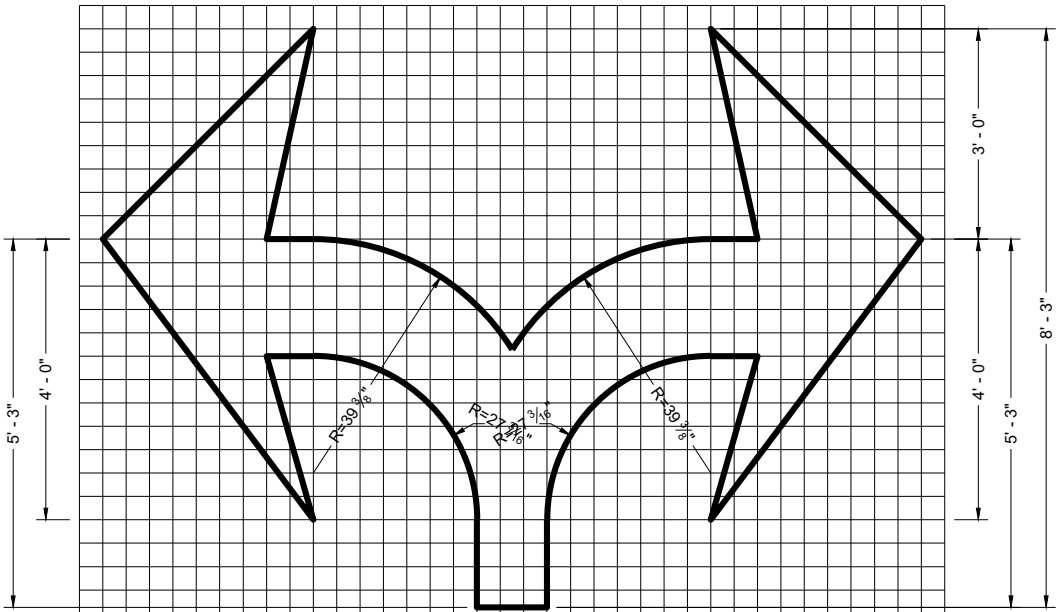
TYPE 4



TYPE 5 LANE DROP ARROW



TYPE 6



TYPE 7

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

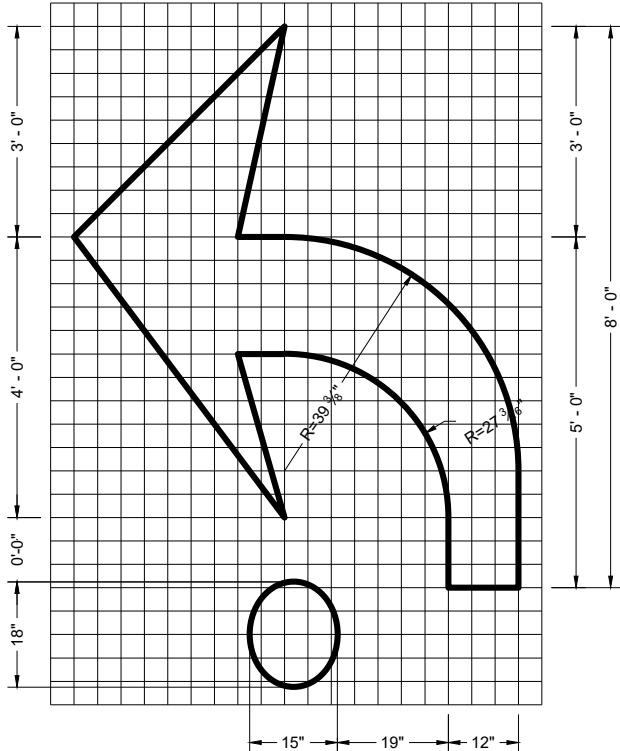
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

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

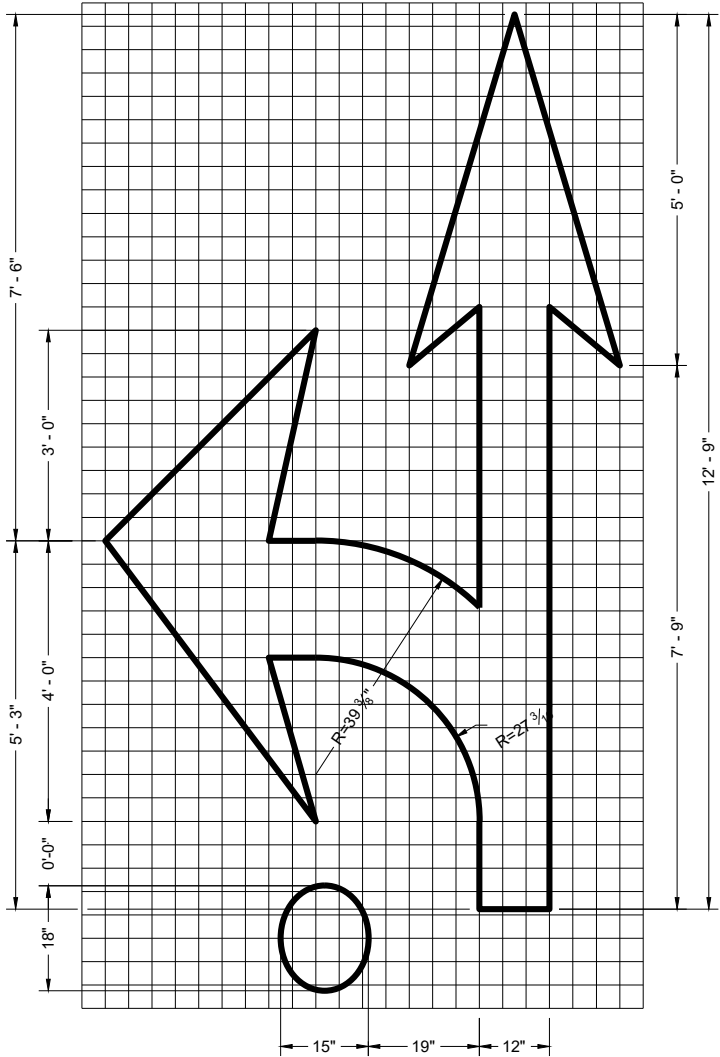
FHWA

GENERAL NOTES

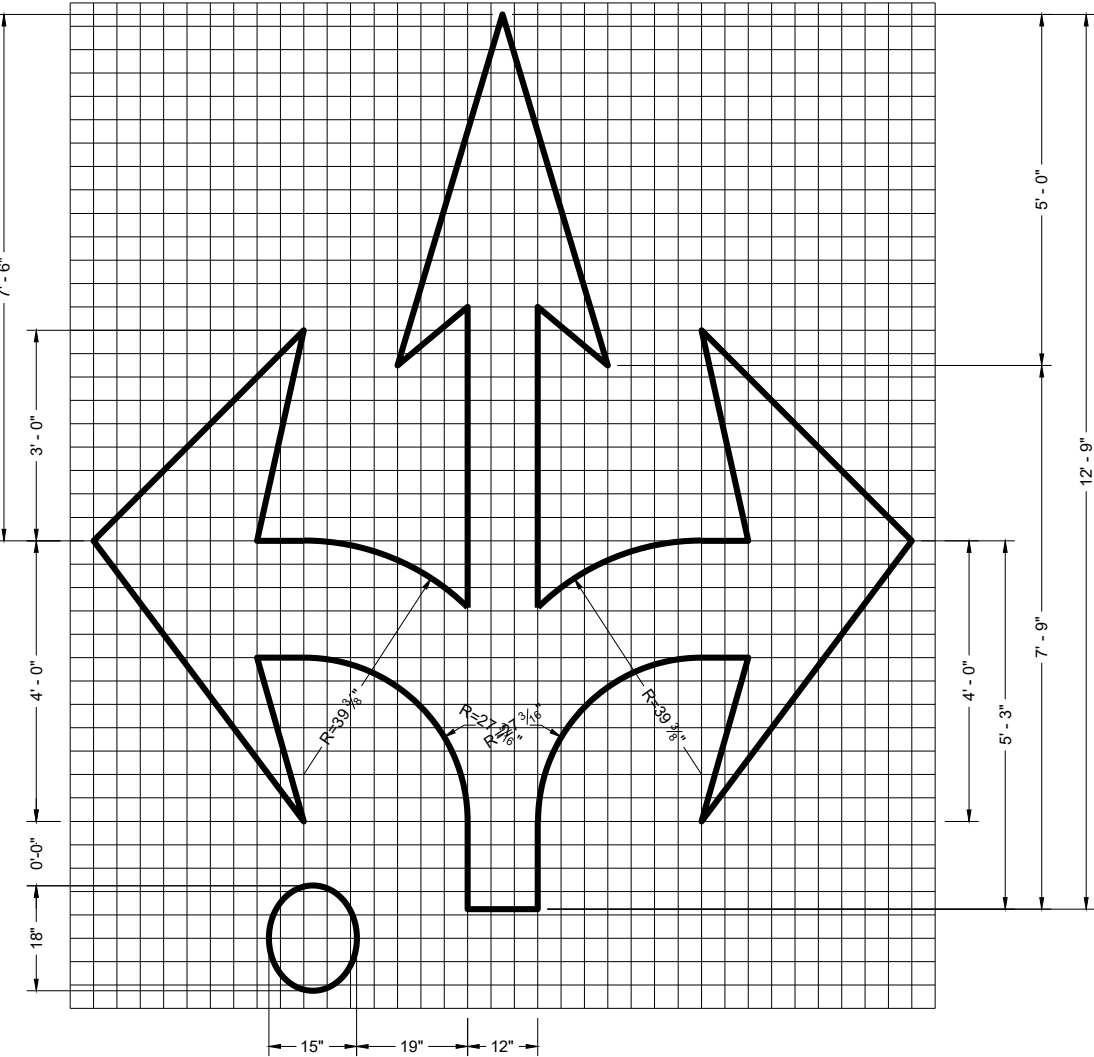
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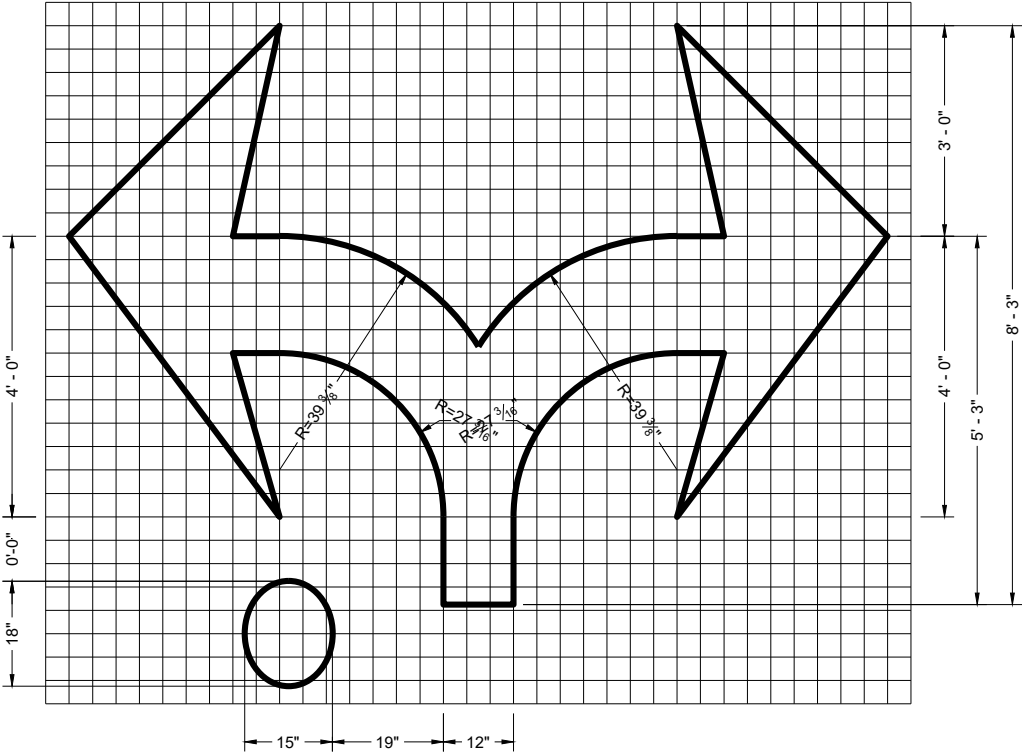
TYPE 2R



TYPE 3R

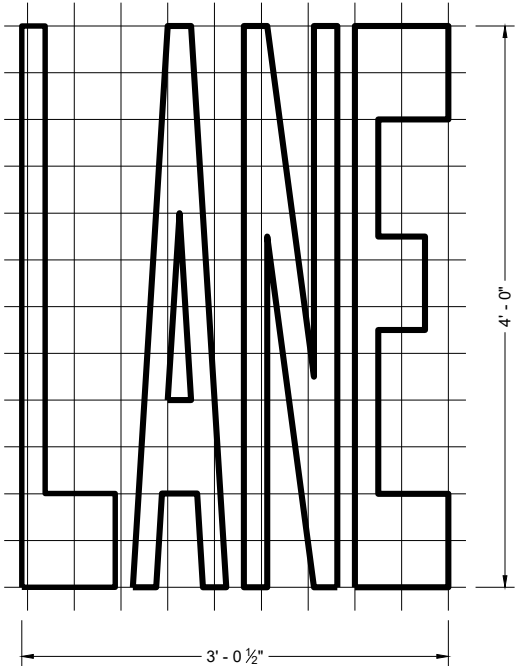
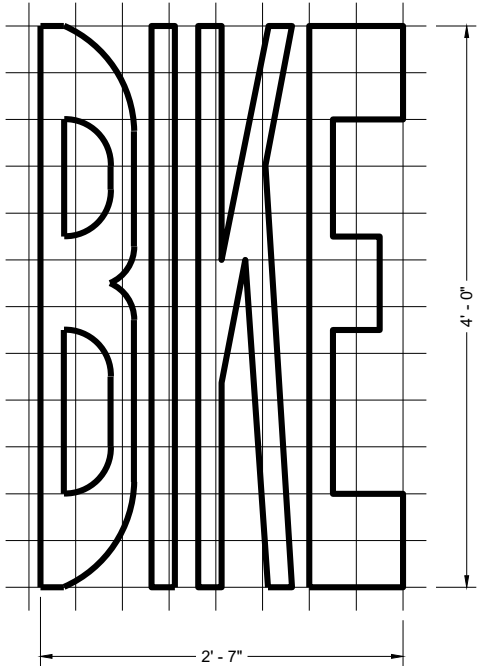


TYPE 6R

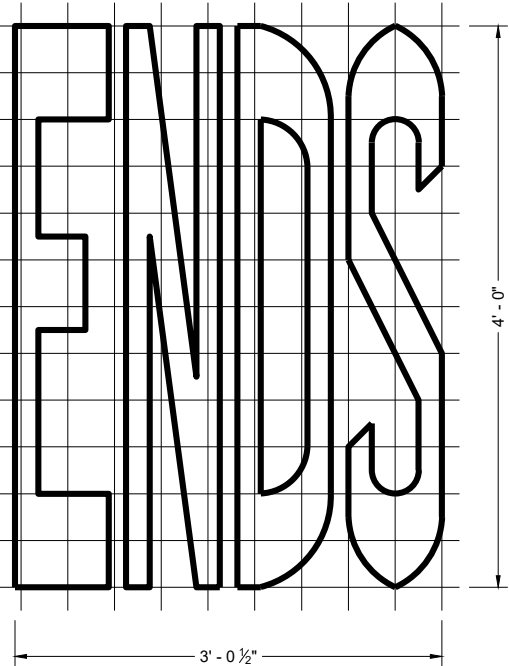


TYPE 7R

ROUNDABOUT MARKING ARROWS	
STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION	
APPROVED November 2024 DATE	/S/ Matthew Rauch STATE SIGNING AND MARKING ENGINEER
FHWA	

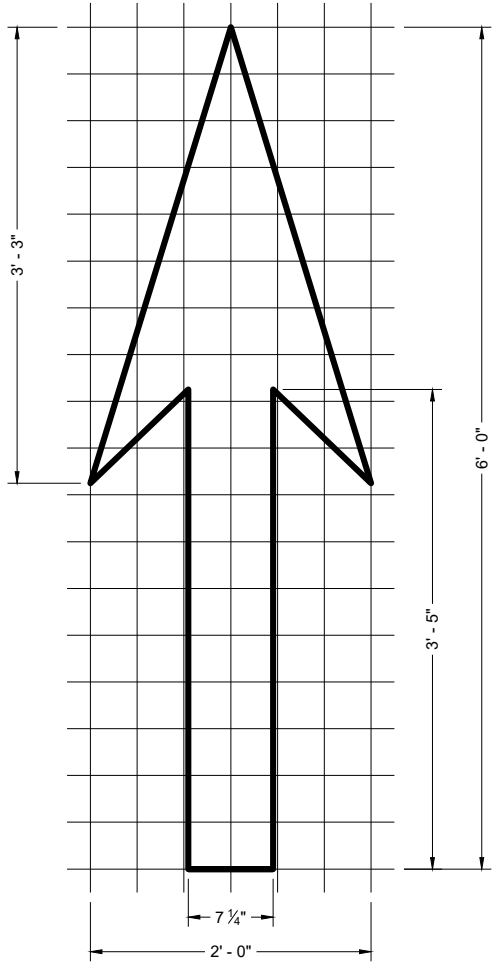
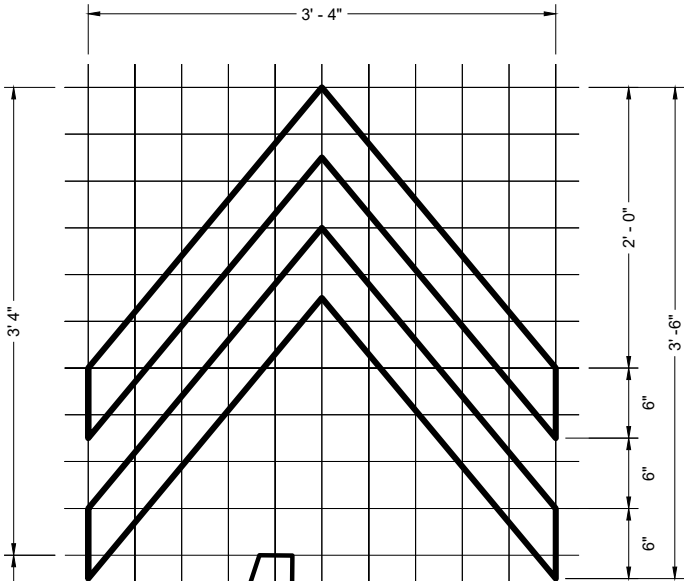


BIKE LANE WORDS

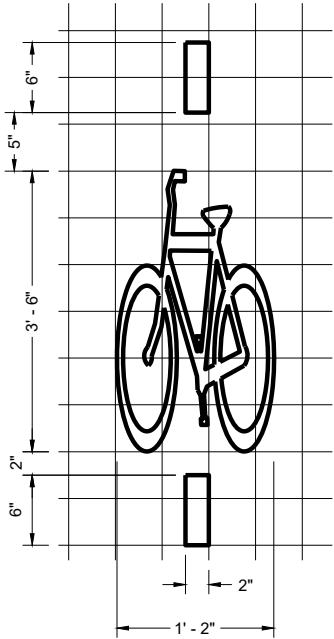


GENERAL NOTES

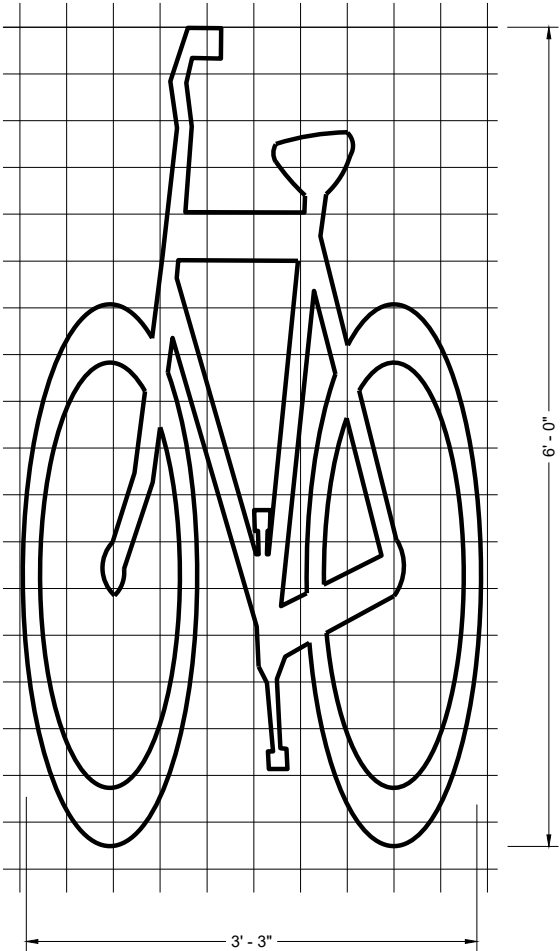
DETAILS OF INSTALLATION, MATERIALS AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS AND APPLICABLE SPECIAL PROVISIONS.



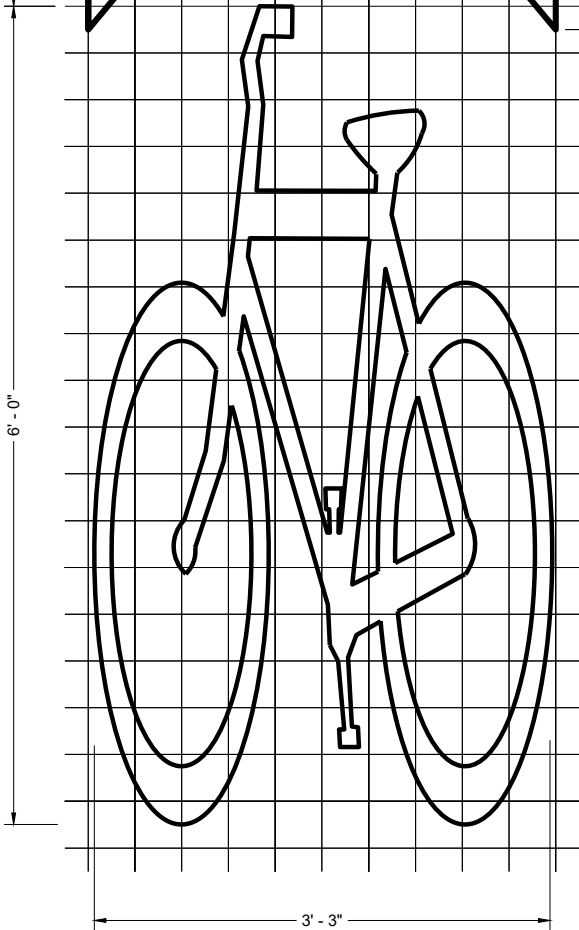
BIKE LANE ARROW



BICYCLE DETECTOR PAVEMENT MARKING



BIKE LANE SYMBOL

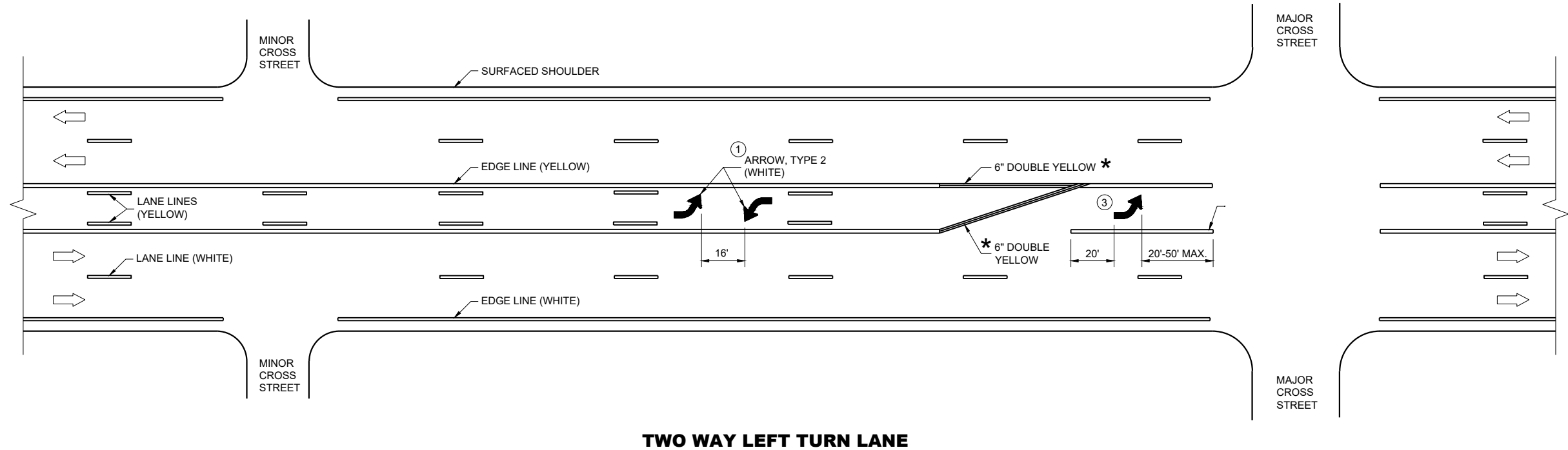


BIKE LANE SYMBOL FOR SHARED LANE

PAVEMENT MARKING FOR BIKE LANES	
STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION	
APPROVED November 2024 DATE	/S/ Matthew Rauch STATE SIGNING AND MARKING ENGINEER
FHWA	

APPROVED
December 2024
DATE

/S/ Jeannie Silver
Statewide Pavement Marking Engineer



GENERAL NOTES

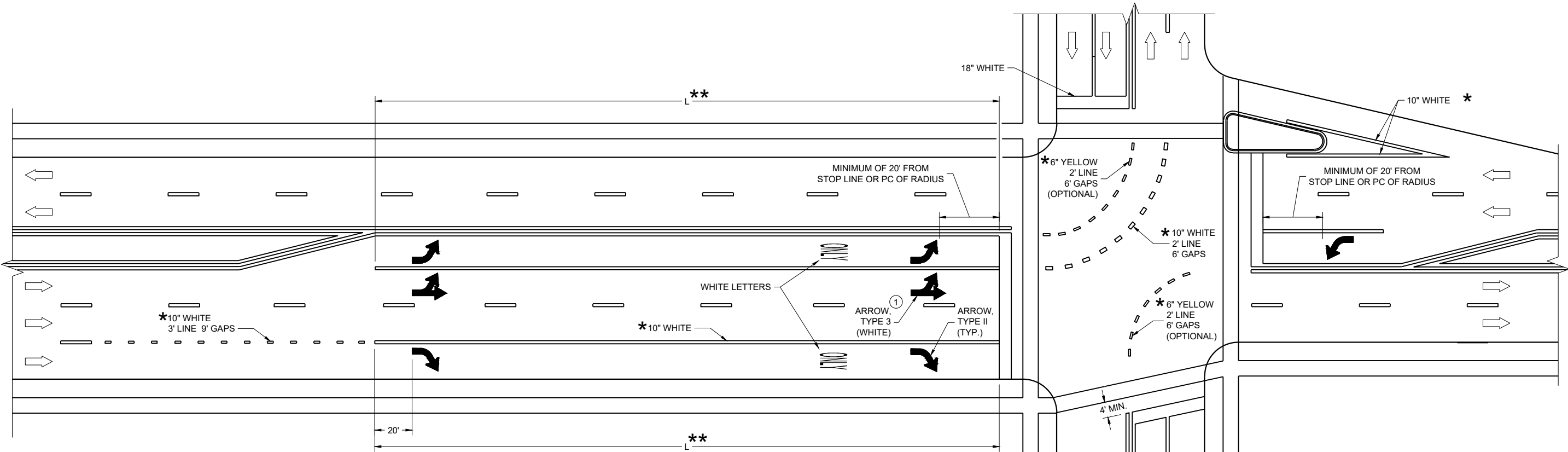
- ① A SET OF ARROWS IS REQUIRED EVERY 400 FEET OR NEAR INTERSECTIONS OR DRIVEWAYS WITH TURNING TRAFFIC.
- ② 10" WHITE
- ③ TURN BAY LENGTH OF LESS THAN 48' DOES NOT REQUIRE PAVEMENT ARROWS OR TEXT.

➡ DIRECTION OF TRAFFIC

*CONFIRM MARKING LINE WIDTH WITH THE MISCELLANEOUS QUANTITIES

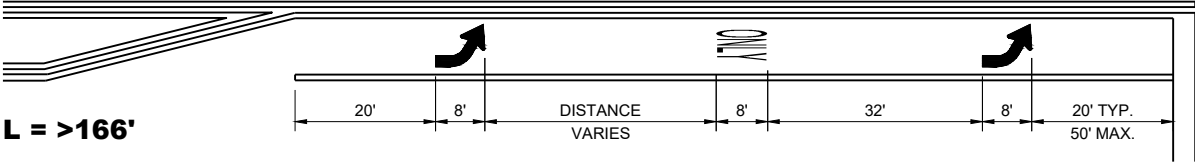
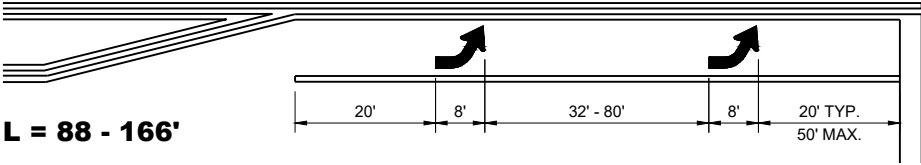
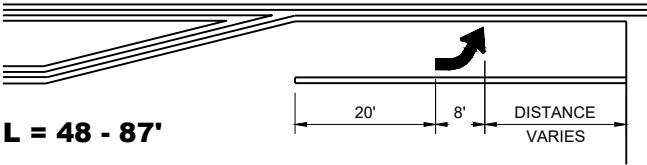
**PAVEMENT MARKING
(TURN LANES)**

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION



TURN LANE OPTIONS

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



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

GENERAL NOTES

① 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.

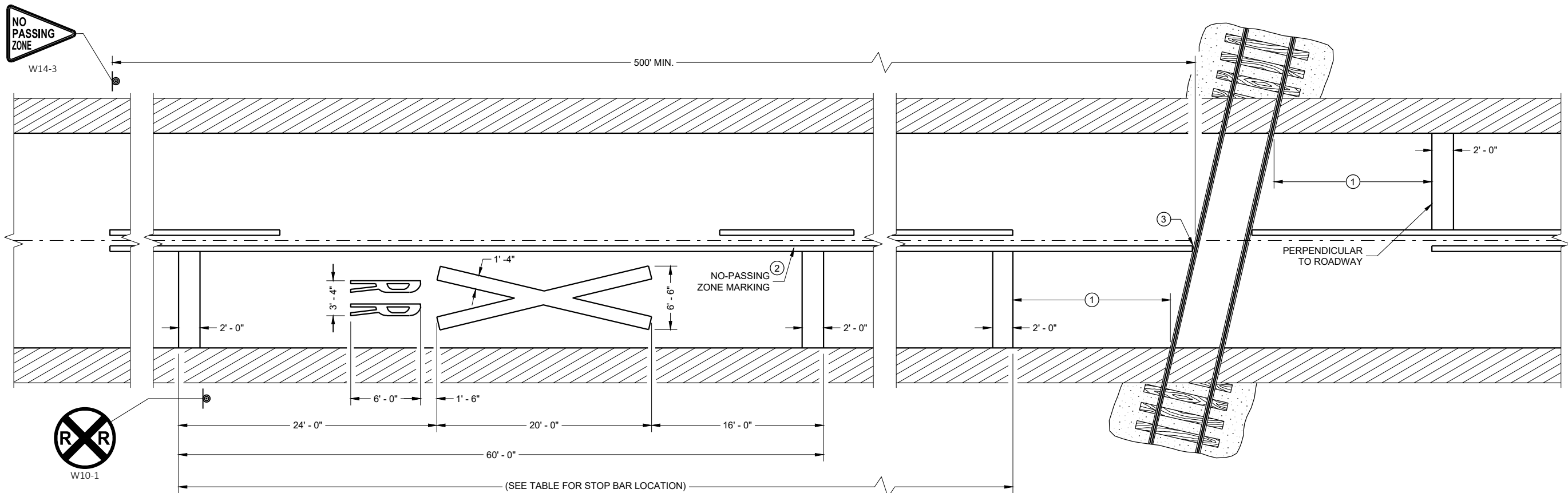
➡ DIRECTION OF TRAFFIC

L = LENGTH OF TURN BAY

*CONFIRM MARKING LINE WIDTH WITH THE MISCELLANEOUS QUANTITIES

PAVEMENT MARKING
(TURN LANES)

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION



PAVEMENT MARKING

LEGEND

 SIGN ON PERMANENT SUPPORT

GENERAL NOTES

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

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

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

TRACE EXISTING SYMBOL WHERE EXISTING SYMBOLS ARE PLACED.

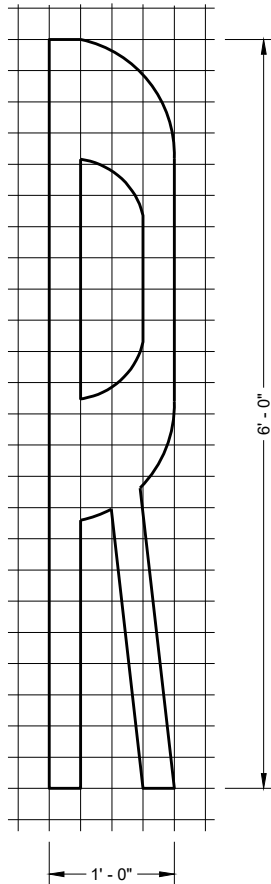
- 1 PLACE STOP BAR APPROXIMATELY 8 FEET IN ADVANCE OF THE GATE (IF PRESENT), BUT NO CLOSER THAN 15 FEET IN ADVANCE OF THE NEAREST RAIL. FIELD-FIT STOP BAR TO MAXIMIZE VIEW OF APPROACHING TRAIN.
- 2 500' MINIMUM. MARKING LIMITS MAY BE EXTENDED AS DIRECTED BY THE ENGINEER TO MEET ADJACENT NO-PASSING ZONE MARKINGS.
- 3 FOR MULTIPLE TRACK CROSSINGS, THE BARRIER LINE SHALL EXTEND TO THE NEAR RAIL OF THE FURTHEST TRACK IN THE DIRECTION OF HIGHWAY TRAVEL.

DISTANCE TABLE

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

POSTED SPEED (M.P.H.)	DIMENSION RANGE (FEET)
25	150* - 250'
30	200* - 300'
35	250* - 450'
40	300* - 500'
45	400* - 650'
50	550* - 800'
55	750* - 1000'
60	1000* - 1250'
65	1000* - 1250'

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



SIGNING AND PAVEMENT MARKING DETAILS FOR RAILROAD - HIGHWAY GRADE CROSSINGS

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
May 2023
DATE
/S/ Matthew R. Rauch
STATE SIGNING AND MARKING
ENGINEER
FHWA

LEGEND

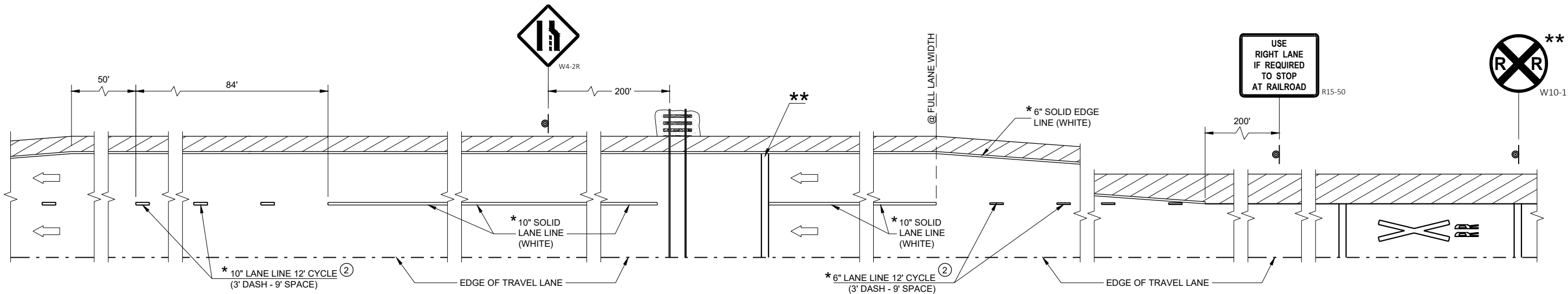
-  SIGN ON PERMANENT SUPPORT
-  DIRECTION OF TRAFFIC

GENERAL NOTES

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

- ① INSTALLED FOR EXPRESSWAYS
- ② 3' LINE, 9' GAP, EXCEPT RETRACE THE EXISTING LINE - GAP PATTERN WHERE EXISTING MARKINGS ARE IN PLACE.

** SEE SDD 15C09-a, "SIGNING AND PAVEMENT MARKING DETAILS FOR RAILROAD - HIGHWAY GRADE CROSSING" FOR LOCATION OF ADVANCE MARKINGS.



DETAIL FOR TRUCK STOPPING LANE PAVEMENT MARKINGS

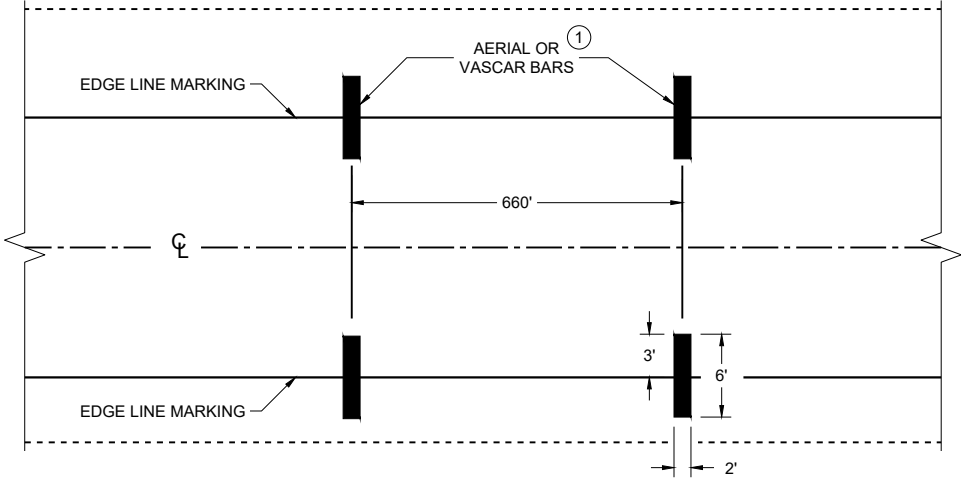
TRUCK STOPPING LANE
PAVEMENT MARKINGS

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

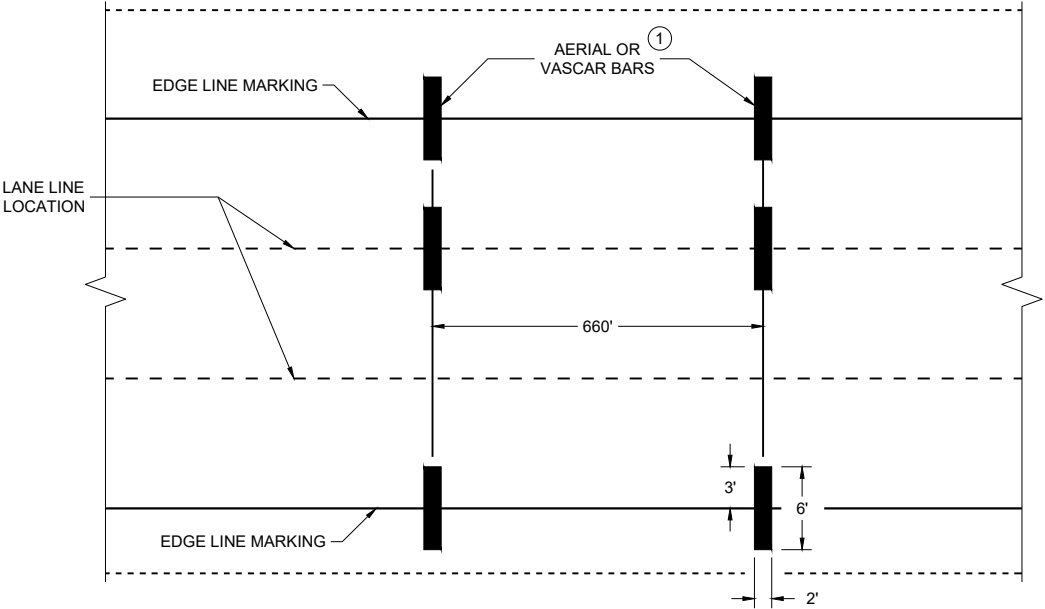
APPROVED
May 2023
DATE

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STATE SIGNING AND MARKING
ENGINEER

FHWA



TYPICAL FOR TWO WAY OR ONE WAY TRAFFIC



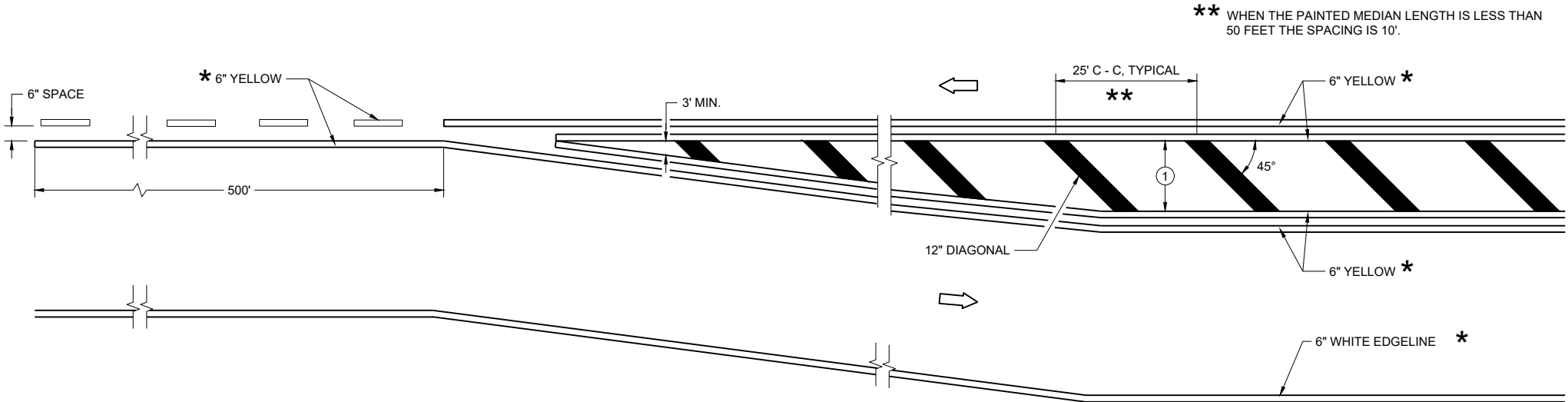
TYPICAL FOR MULTILANE TRAFFIC

GENERAL NOTES

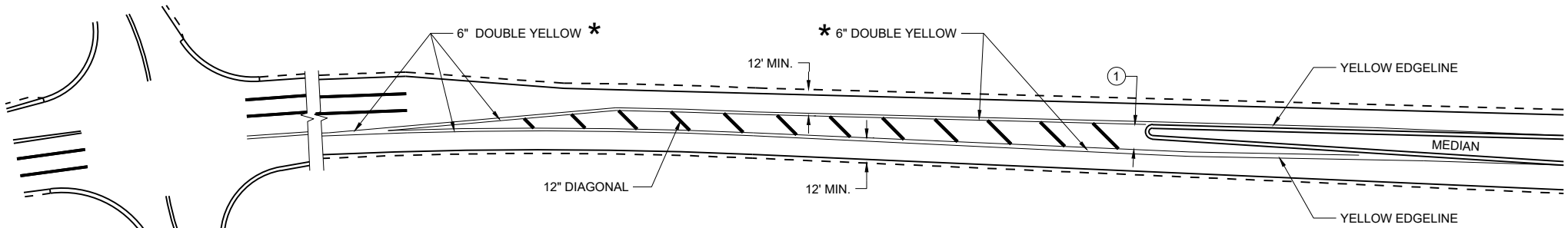
- ① PLACE TWO TO FIVE AERIAL OR VASCAR BARS AT 660 FOOT SPACING.

SPEED ENFORCEMENT ZONE WITH AERIAL OR VASCAR BARS

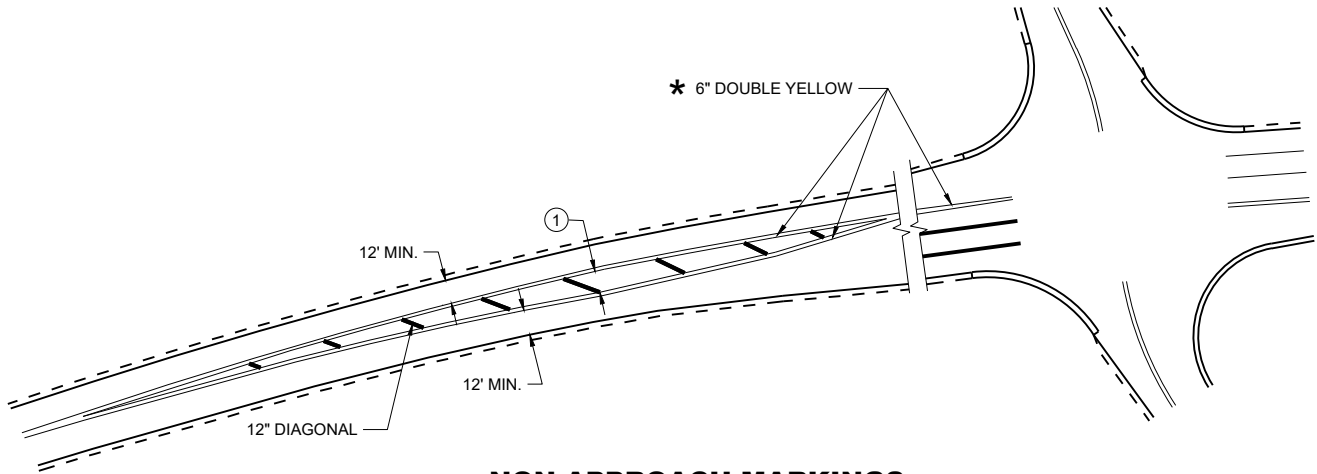
AERIAL ENFORCEMENT BARS PAVEMENT MARKING DETAILS	
STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION	
APPROVED February 2025 DATE	/S/ Matthew R. Rauch STATE SIGNING AND MARKING ENGINEER
FHWA	



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

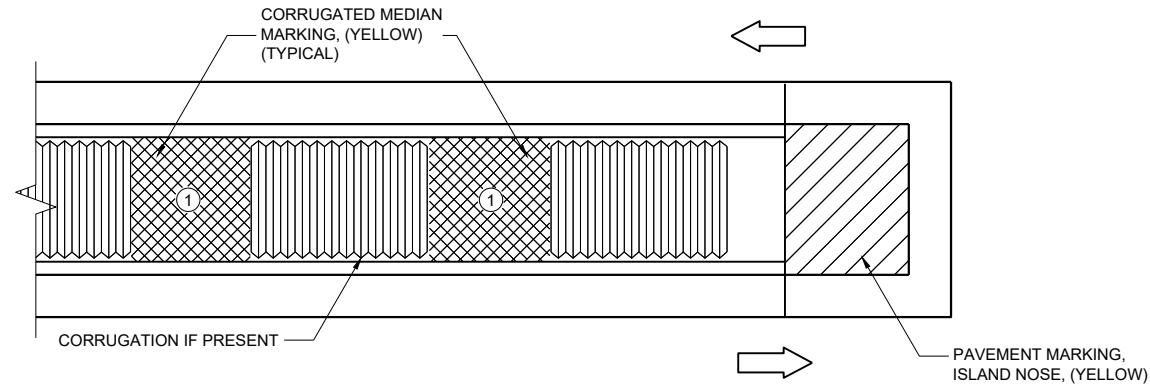
* CONFIRM MARKING LINE WIDTH WITH THE MISCELLANEOUS QUANTITIES

MEDIAN ISLAND
PAVEMENT MARKINGS

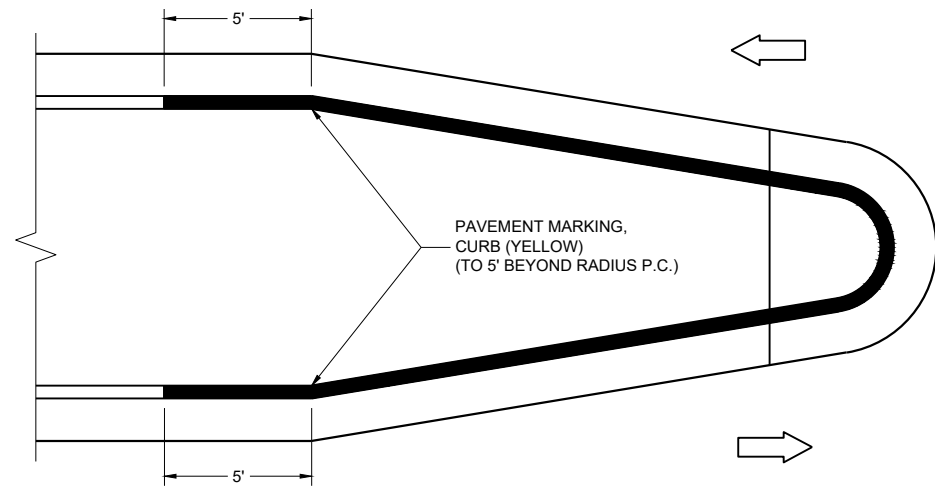
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

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

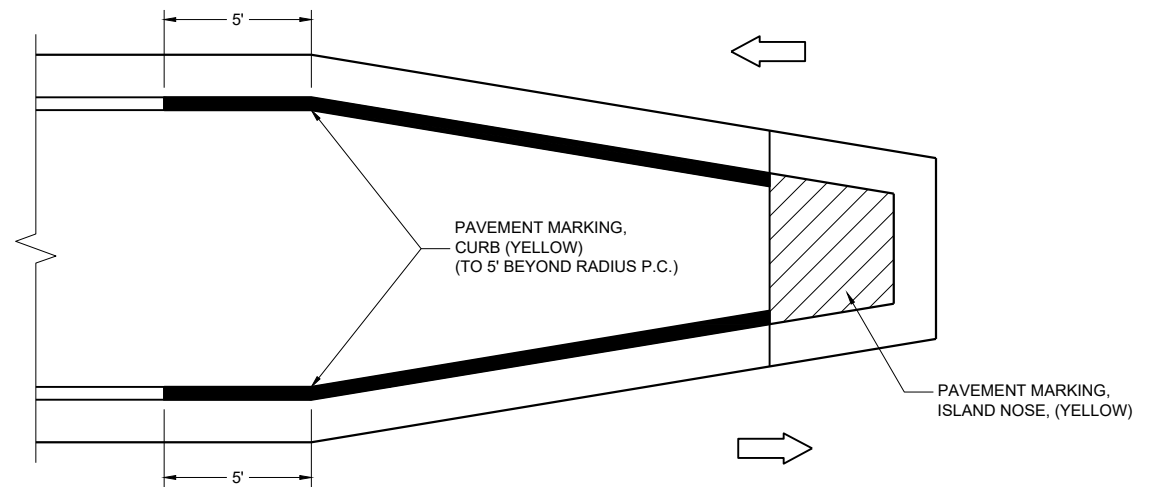
FHWA



MEDIAN ISLAND WITH SQUARE BLUNT NOSE



MEDIAN ISLAND WITH ROUND BLUNT NOSE



MEDIAN ISLAND WITH SLOPED NOSE

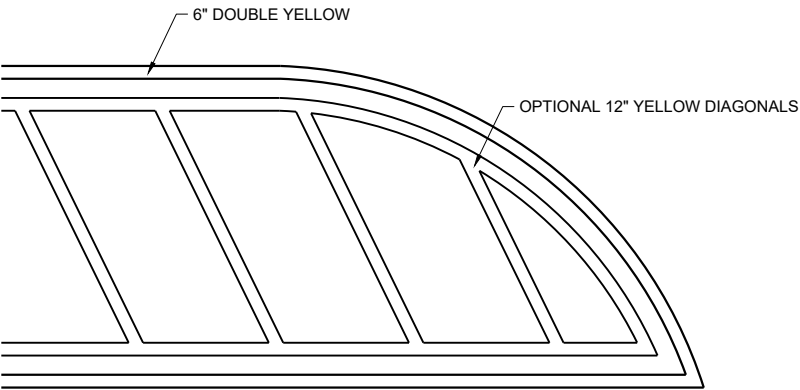
**TYPICAL PLACEMENT OF
PAVEMENT MARKING ON MEDIAN ISLANDS**

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

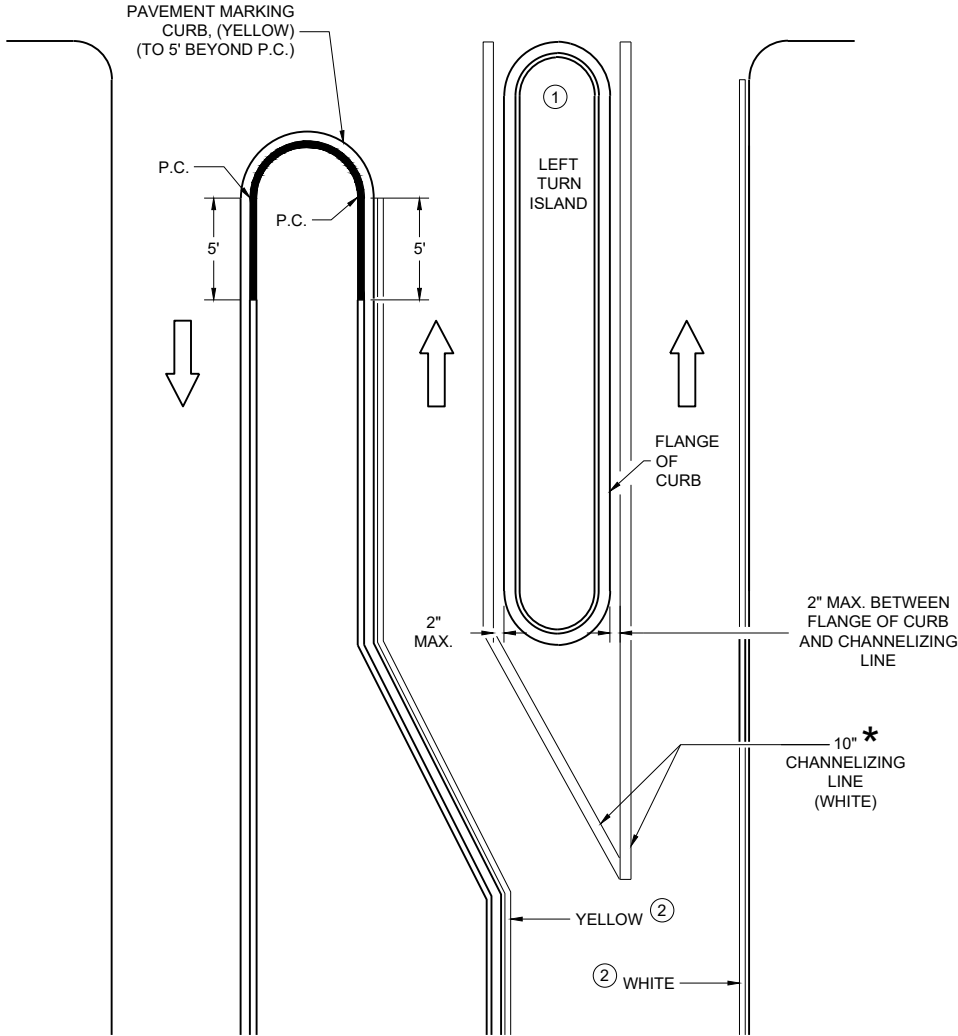
*CONFIRM MARKING LINE WIDTH WITH THE MISCELLANEOUS QUANTITIES

GENERAL NOTES

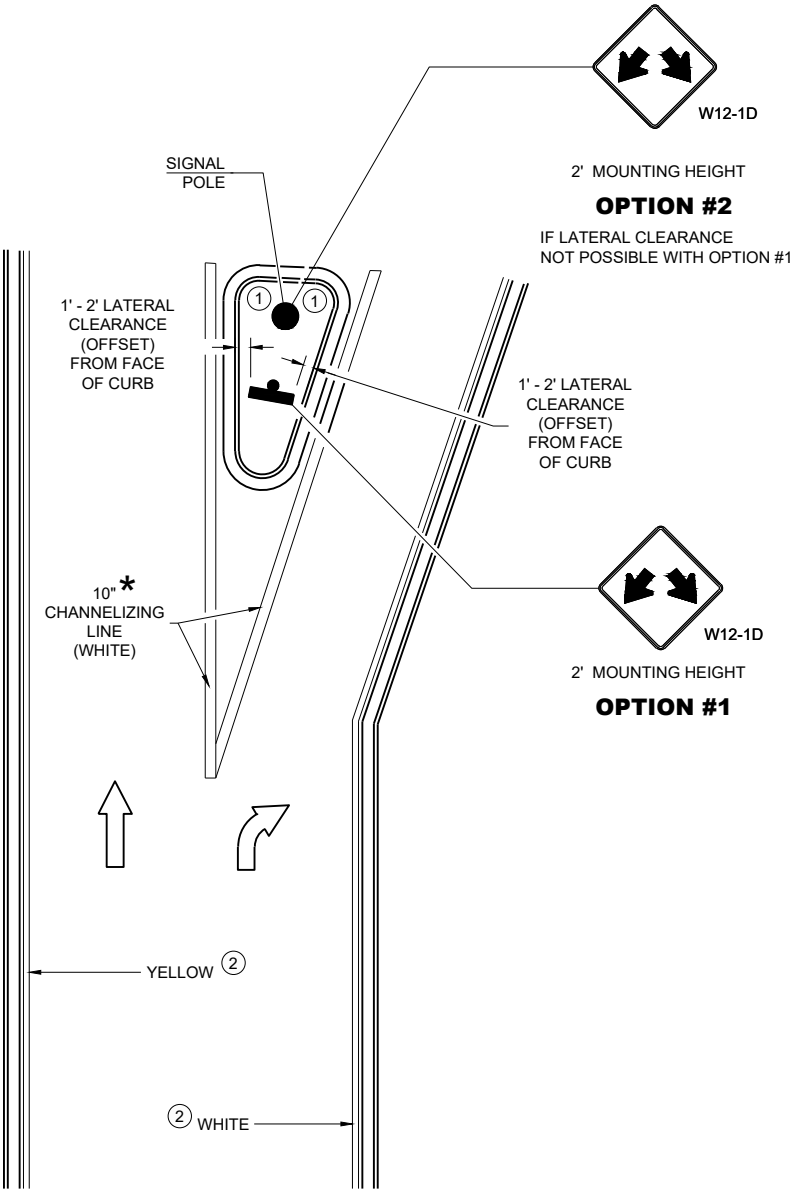
APPLIES TO ISLANDS AT LEFT TURNS AT ONE WAY ROADWAYS AS WELL.
SEE MISCELLANEOUS QUANTITIES FOR SIGN SIZE.

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

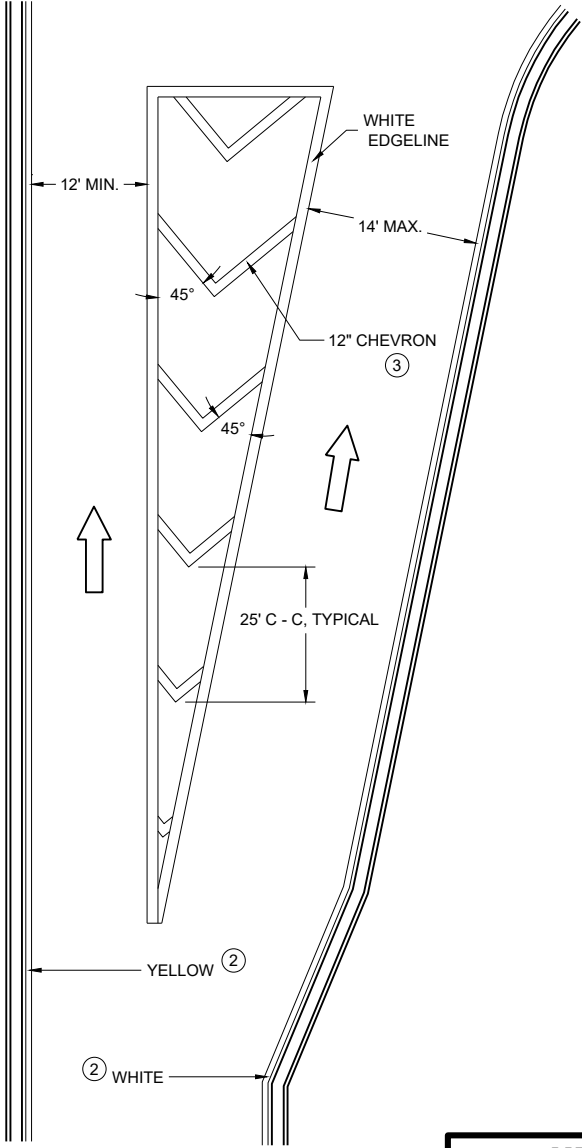
➡ DIRECTION OF TRAVEL



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.

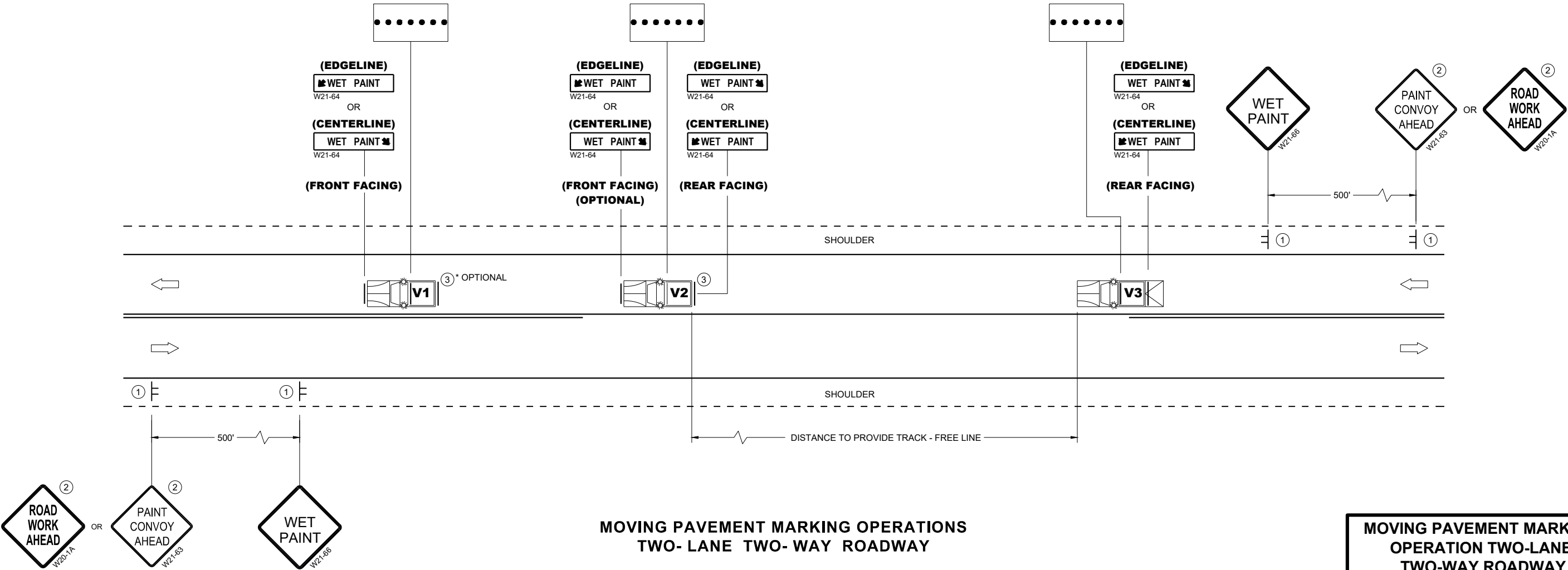
WHEN NO WORK ACTIVITY IS TAKING PLACE, REMOVE OR LAY STATIONARY SIGNS AND SUPPORTS FLAT ON THE GRADE WITH

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 FEBRUARY 2025 DATE	/S/ Andrew Heidtke STATE ELECTRICAL ENGINEER
FHWA	

LEGEND

- V1

LEAD VEHICLE
- V2

MARKING VEHICLE
- V3

SHADOW VEHICLE
- 

TRUCK MOUNTED ATTENUATOR (TMA)
- 

SIGN ON TEMPORARY SUPPORT
- 

DIRECTION OF TRAFFIC
- 

ARROW PANEL (CAUTION)

GENERAL NOTES

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

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

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

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

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

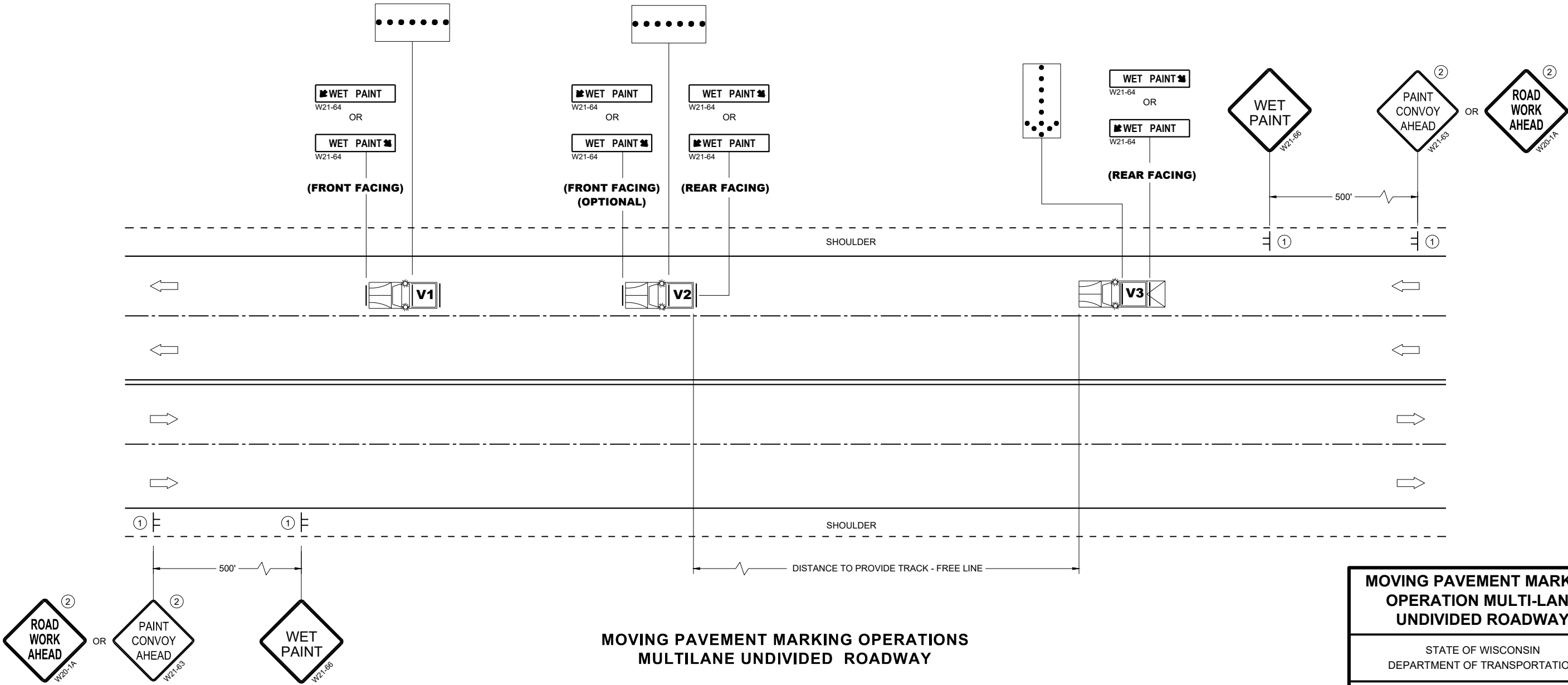
WHEN A RAMP INTERSECTS THE FACILITY ON WHICH THE WORK IS BEING PERFORMED, PROVIDE ADDITIONAL TRAFFIC CONTROLS AS SPECIFIED IN THE CONTRACT OR AS APPROVED BY THE ENGINEER.

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.

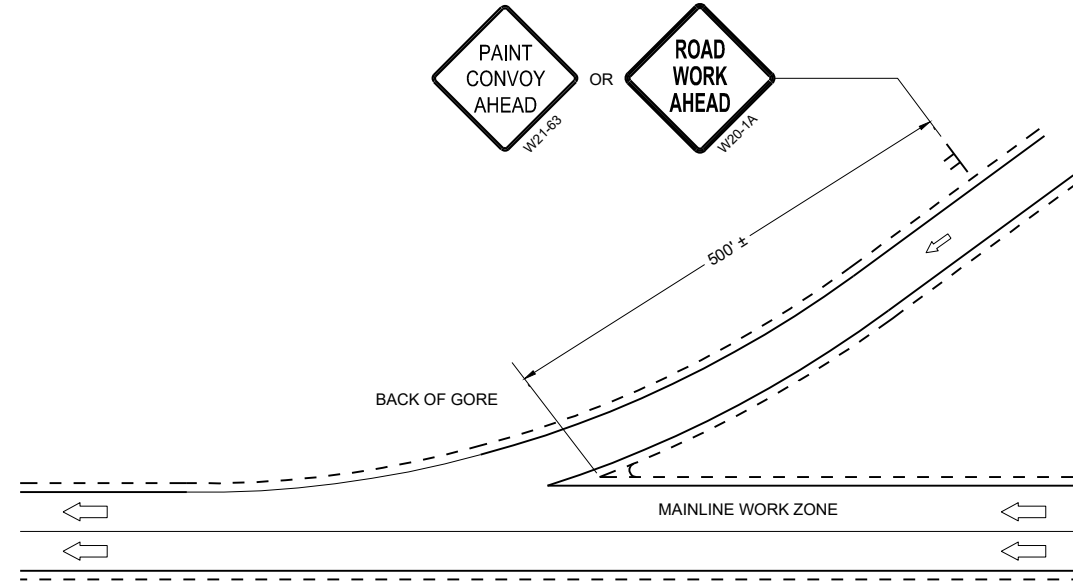


MOVING PAVEMENT MARKING
OPERATION MULTI-LANE
UNDIVIDED ROADWAY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
FEBRUARY 2025 /S/ Andrew Heidtke
DATE STATE ELECTRICAL ENGINEER
FHWA

V1	MARKING VEHICLE
V2	SHADOW VEHICLE
V3	TRAIL VEHICLE



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

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

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

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

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

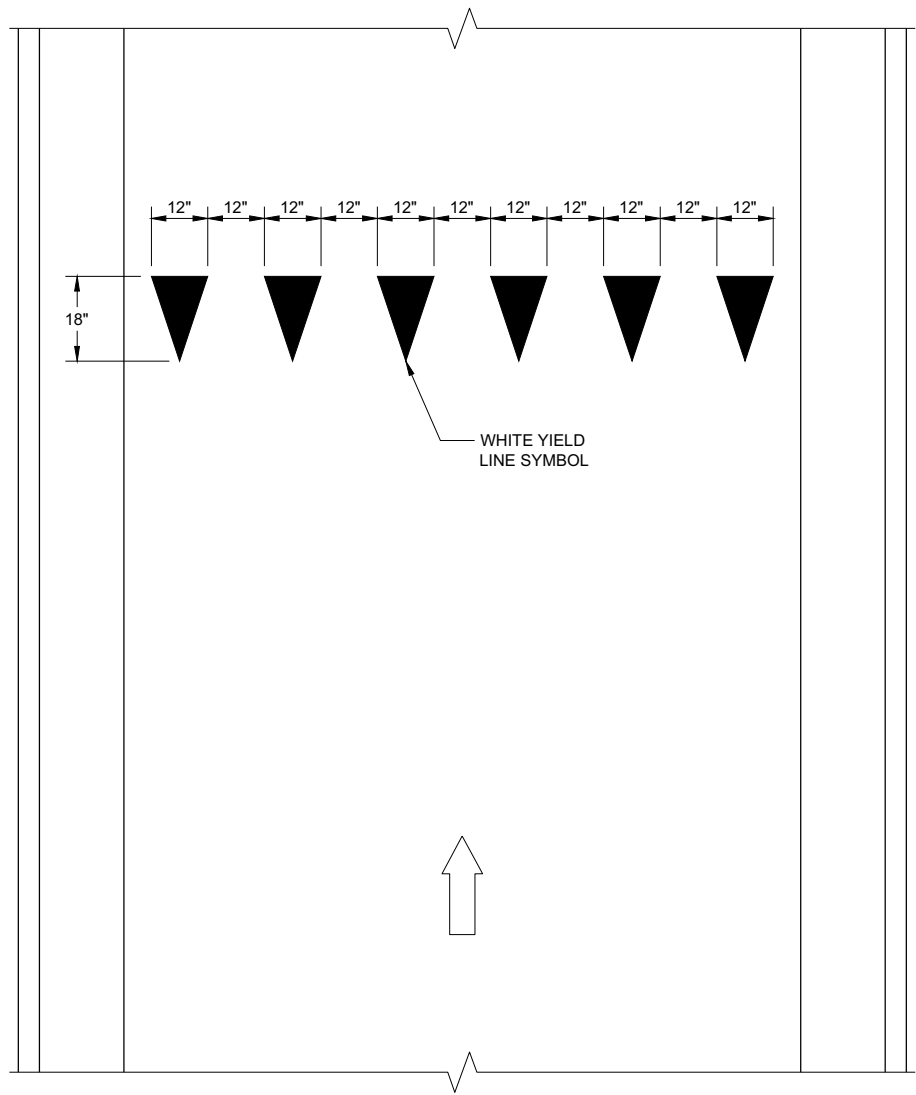
- ## MOVING PAVEMENT MARKING OPERATIONS MULTILANE DIVIDED ROADWAY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
FEBRUARY 2025
DATE

/S/ Andrew Heidtke
STATE ELECTRICAL ENGINEER

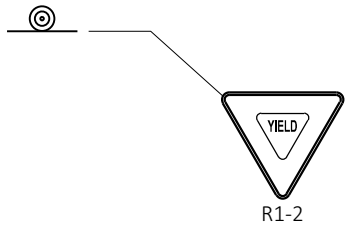
FHWA



YIELD LINE

LEGEND

-  SIGN ON PERMANENT SUPPORT
-  DIRECTION OF TRAVEL



YIELD MARKINGS	
STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION	
APPROVED 4-81-2016 DATE	/S/ Matthew R. Rauch STATE SIGNING AND MARKING ENGINEER
FHWA	

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

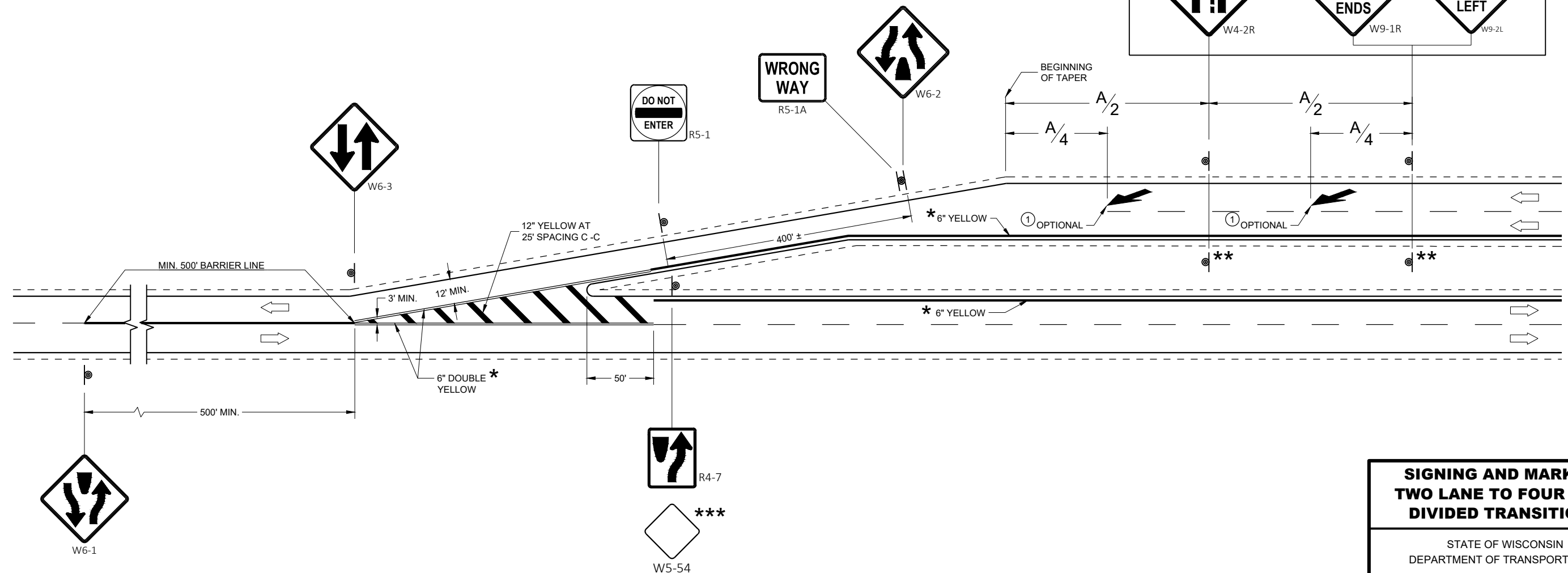
* CONFIRM MARKING LINE WIDTH WITH THE MISCELLANEOUS QUANTITIES

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

A DISTANCE DEPENDENT ON SPEED (SEE TABLE)

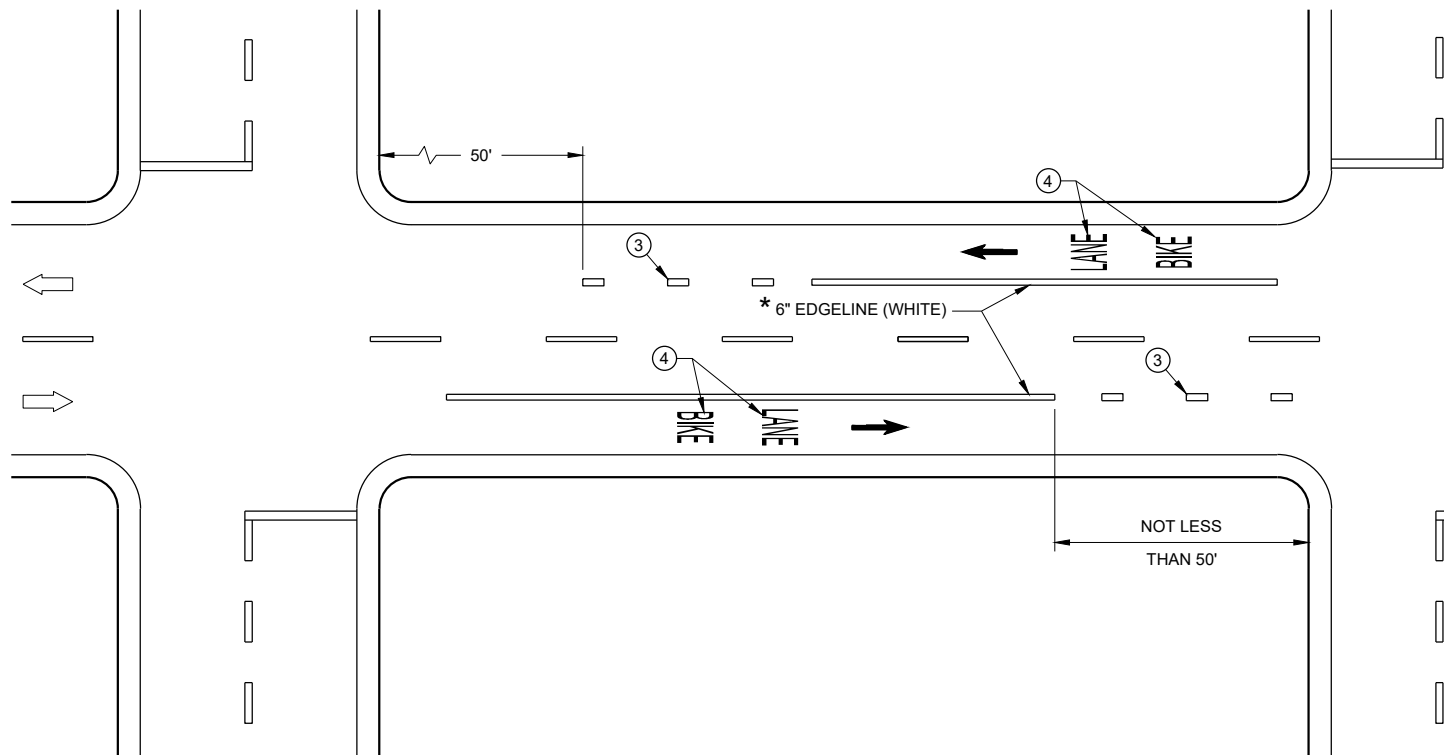
 DIRECTION OF TRAFFIC

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

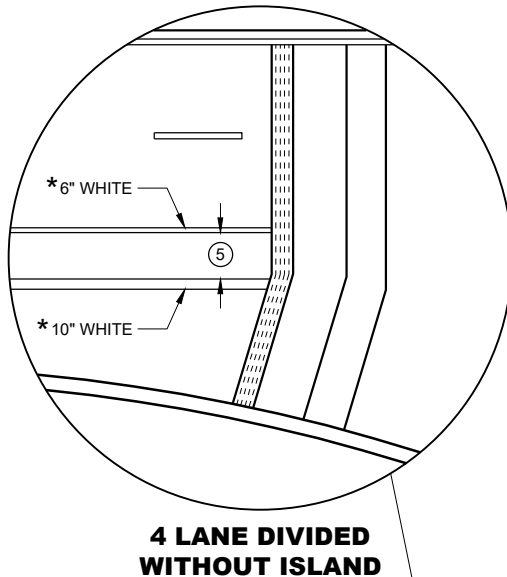
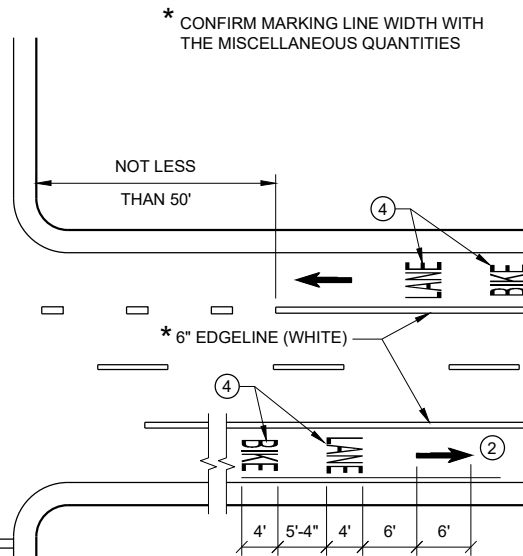


APPROVED
May 2023
DATE

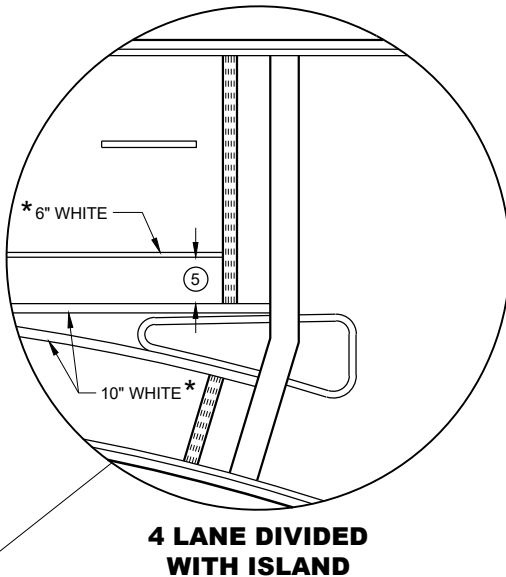
/S/ Matthew Rauch
STATE SIGNING AND MARKING
ENGINEER



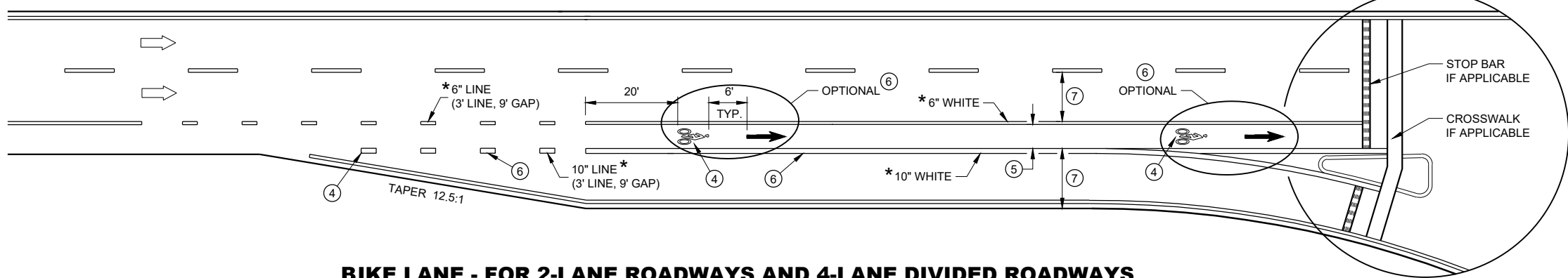
DESIGNATED BIKE LANE - NO PARKING



4 LANE DIVIDED WITHOUT ISLAND



4 LANE DIVIDED WITH ISLAND



BIKE LANE - FOR 2-LANE ROADWAYS AND 4-LANE DIVIDED ROADWAYS
(4-LANE DIVIDED WITH RIGHT TURN LANE SHOWN)

GENERAL NOTES

- 1 DETAILS OF CONSTRUCTION NOT SHOWN ON THIS DRAWING SHALL CONFORM TO STANDARD SPECIFICATIONS AND SPECIAL PROVISIONS.
- 2 MINIMUM OF ONE PER BLOCK. MAXIMUM OF 250 FEET.
- 3 DOTTED LINES (3' LINE, 9' GAP) SHOULD BE USED 50 FEET TO 200 FEET IN ADVANCE OF AN INTERSECTION WHERE THERE IS NO RIGHT TURN ONLY LANE AND THERE IS HEAVY RIGHT TURN TRAFFIC OR THERE IS A NEAR-SIDE BUS STOP. AT OTHER INTERSECTIONS WHERE RIGHT TURN TRAFFIC IS LIGHT TO MODERATE, A SOLID LINE CAN BE USED UP TO THE INTERSECTION.
- 4 BIKE SYMBOLS OR WORDS MAY BE USED.
- 5 BIKE ACCOMMODATION IS TYPICAL 5 FEET WIDE AND MINIMUM OF 4 FEET FROM A LONGITUDINAL JOINT. USE 5 FEET AT ≥ 45 MPH.
- 6 OMIT THESE MARKINGS FOR WIDER TURN LANE APPLICATIONS (MINIMUM OF 15 FOOT WIDE TURN LANE).
- 7 REFER TO CONTRACT PLANS FOR LANE WIDTH.

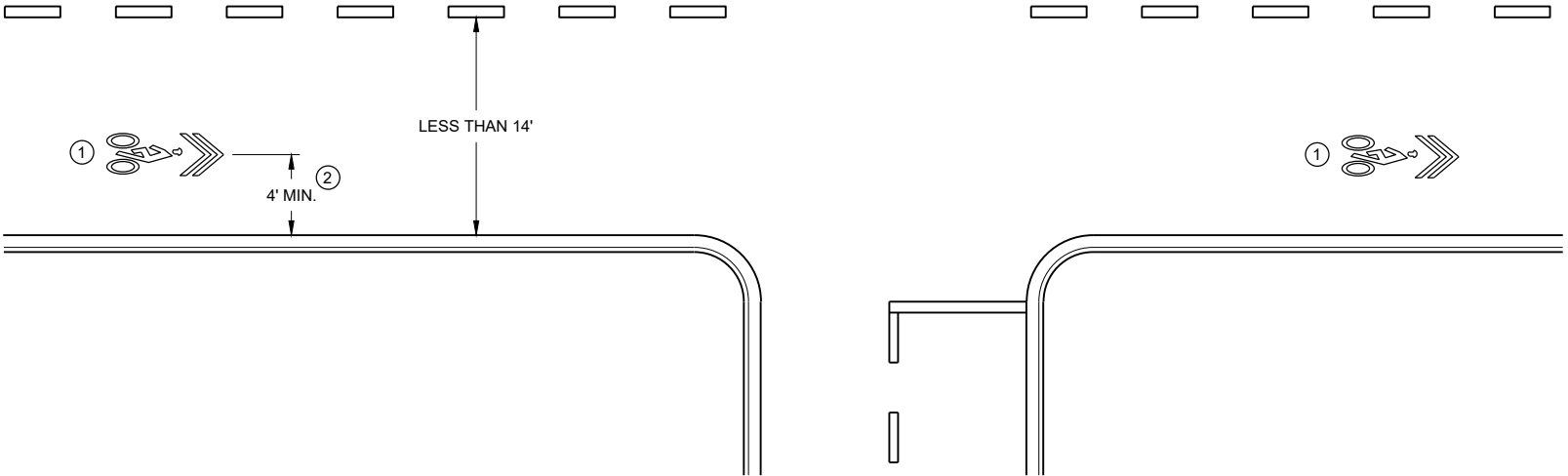
DIRECTION OF TRAVEL

BIKE LANE MARKING

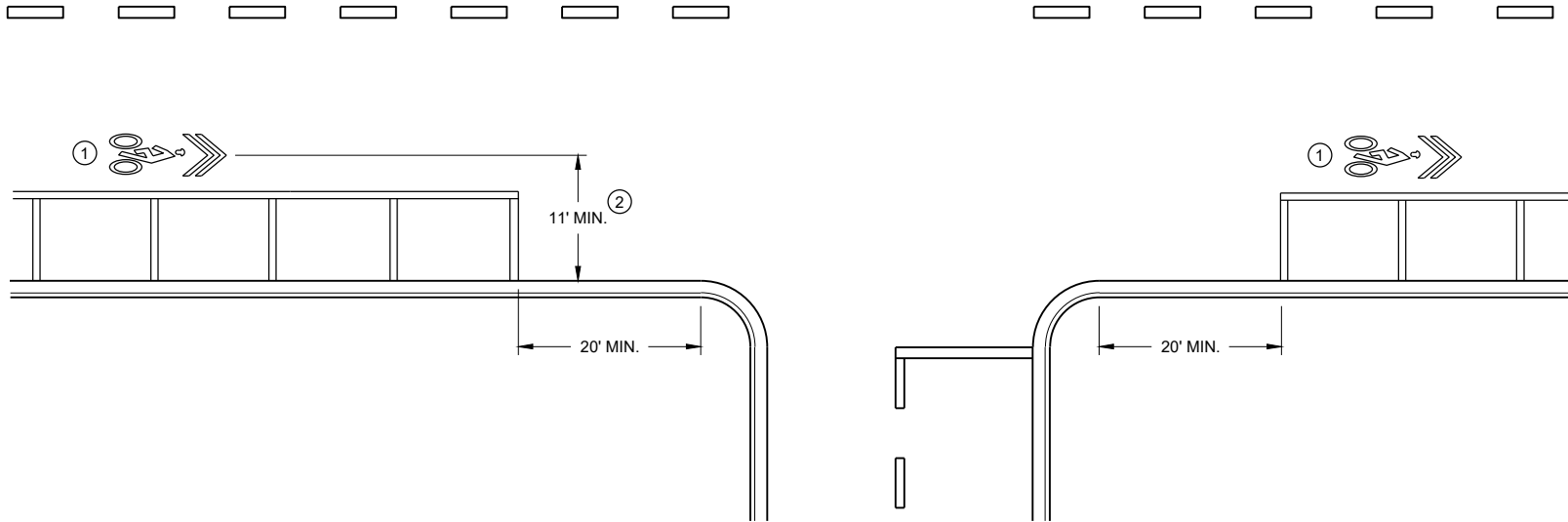
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
May 2023
DATE
/S/ Matthew Rauch
STATE SIGNING AND MARKING
ENGINEER

FHWA



WITHOUT PARKING

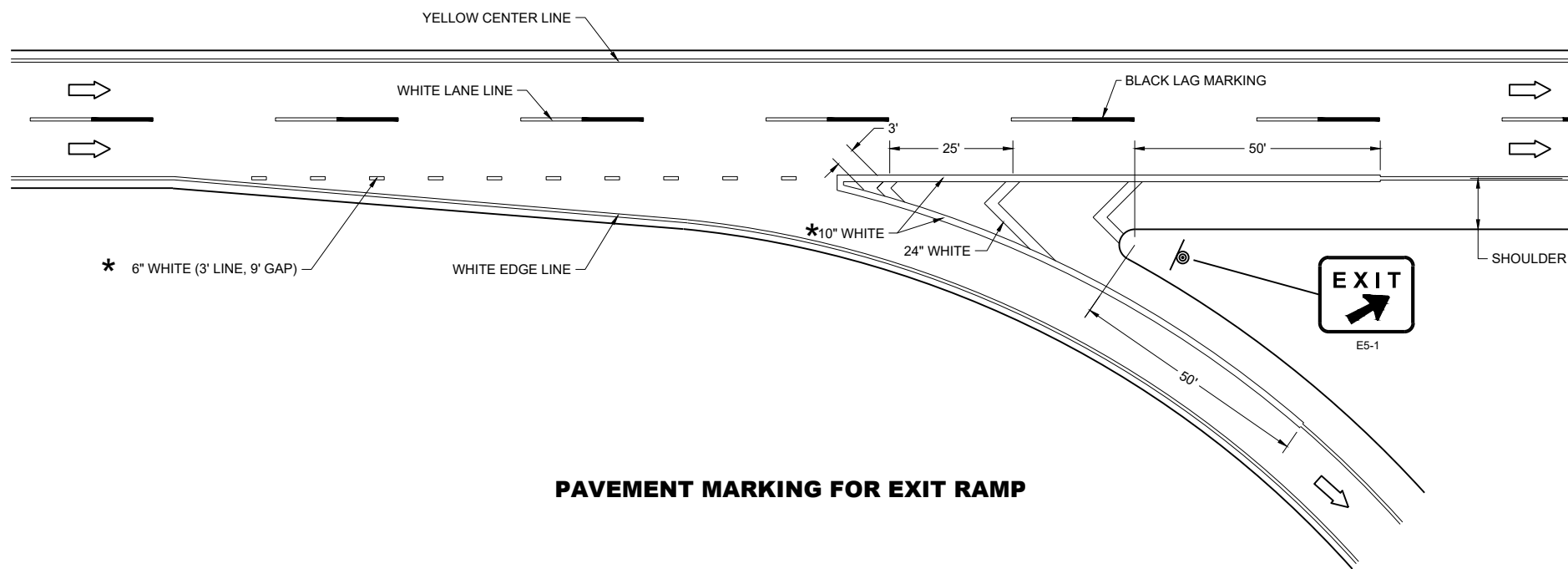


WITH PARKING

GENERAL NOTES

- ① MINIMUM OF ONE PER BLOCK, MAXIMUM OF 250 FEET.
- ② OR TO EDGE OF PAVEMENT WITHOUT CURB.

PAVEMENT MARKING FOR SHARED LANE 35 MPH OR LESS	
STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION	
APPROVED May 2023 DATE	/S/ Matthew Rauch STATE SIGNING AND MARKING ENGINEER
FHWA	



PAVEMENT MARKING FOR EXIT RAMP

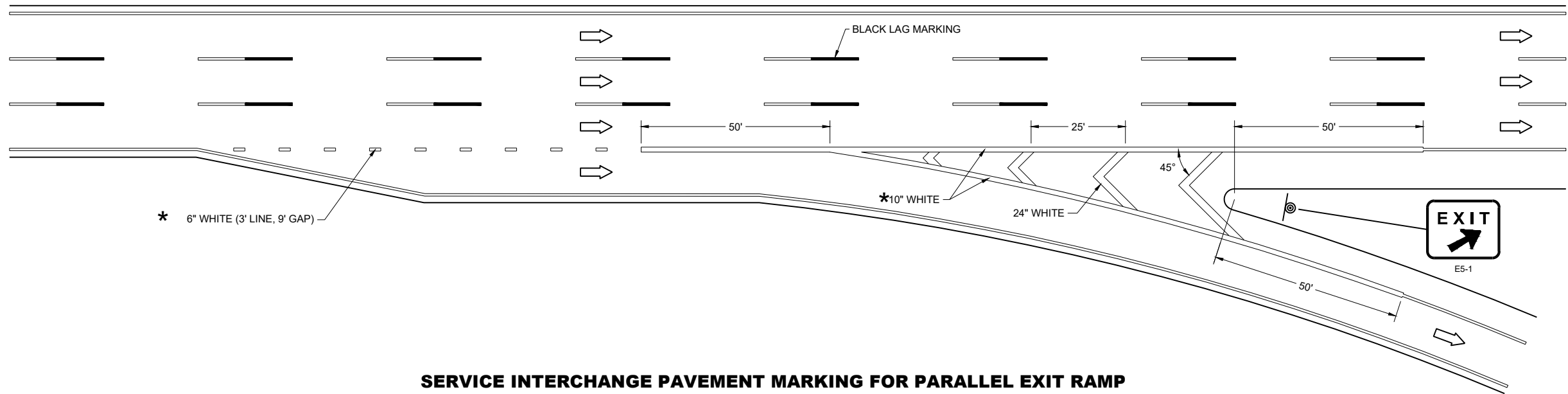
GENERAL NOTES

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

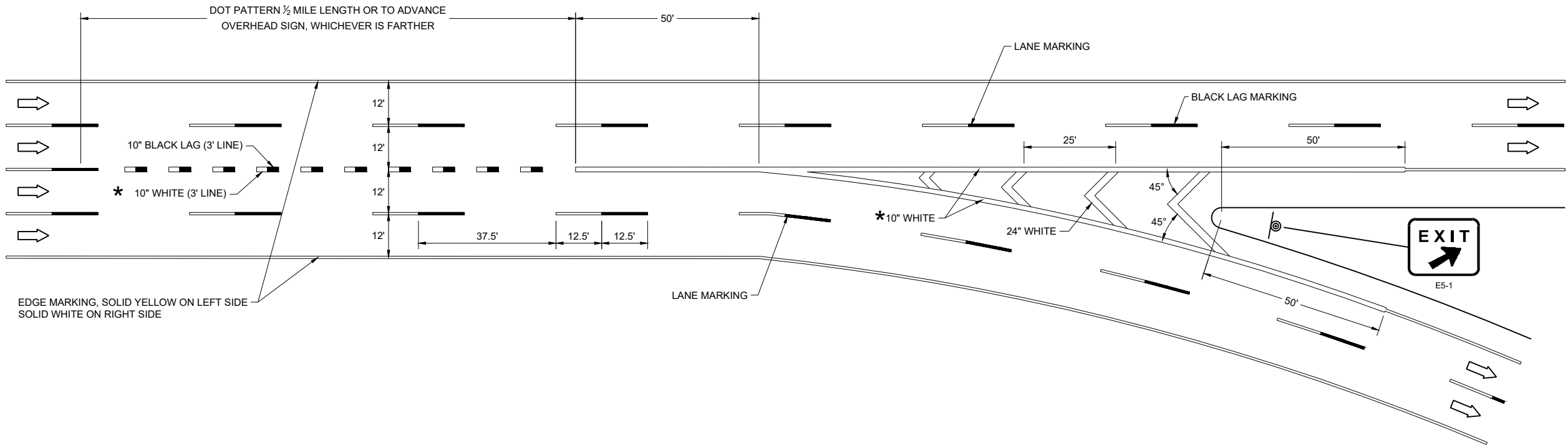
PLACE GROOVE 3 INCHES LEFT OF JOINT.

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

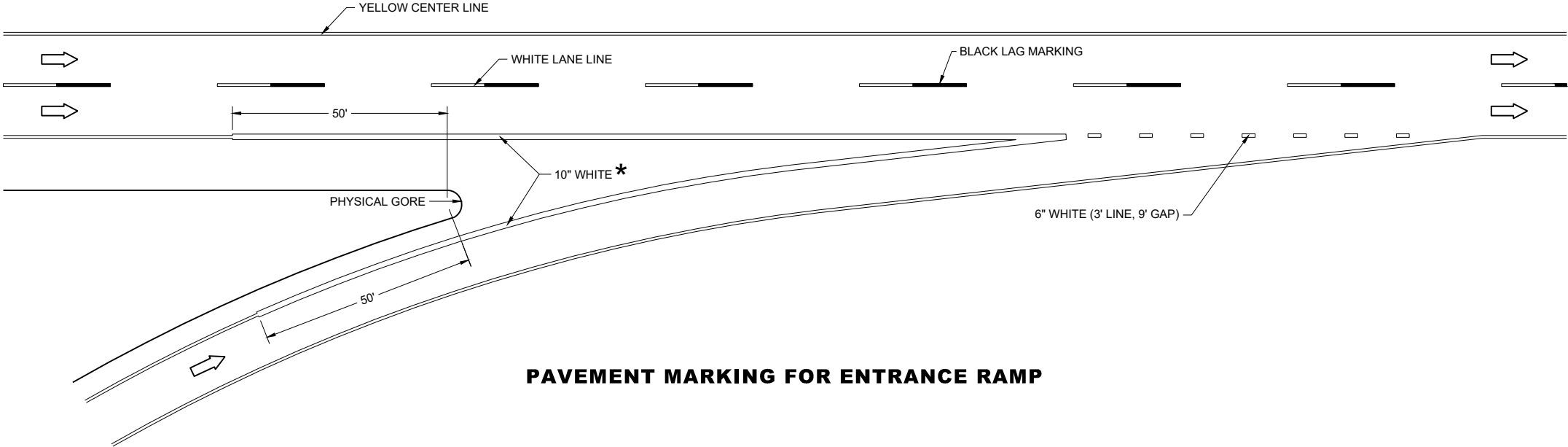
GENERAL NOTES

PLACE GROOVE 3 INCHES LEFT OF JOINT.

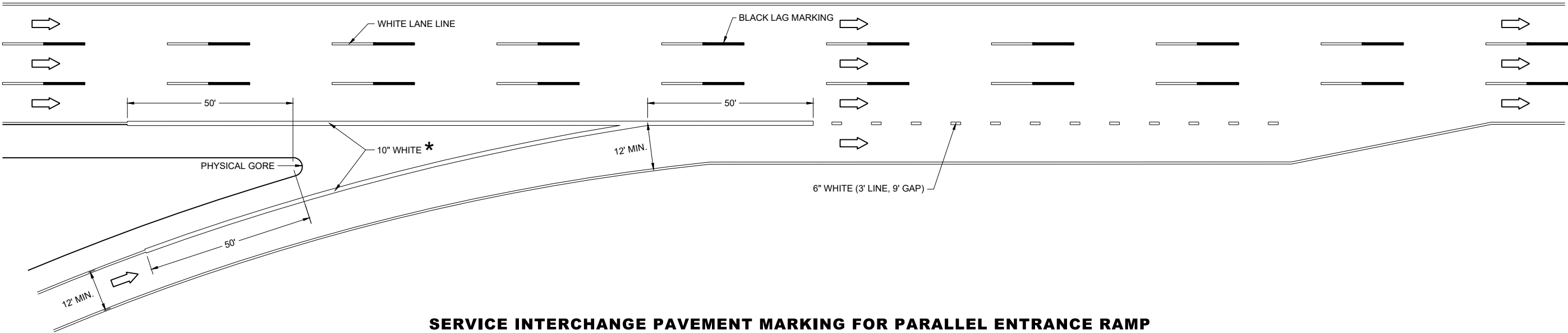
LEGEND

DIRECTION OF TRAVEL

*CONFIRM MARKING LINE WIDTH WITH THE MISCELLANEOUS QUANTITIES



PAVEMENT MARKING FOR ENTRANCE RAMP



SERVICE INTERCHANGE PAVEMENT MARKING FOR PARALLEL ENTRANCE RAMP

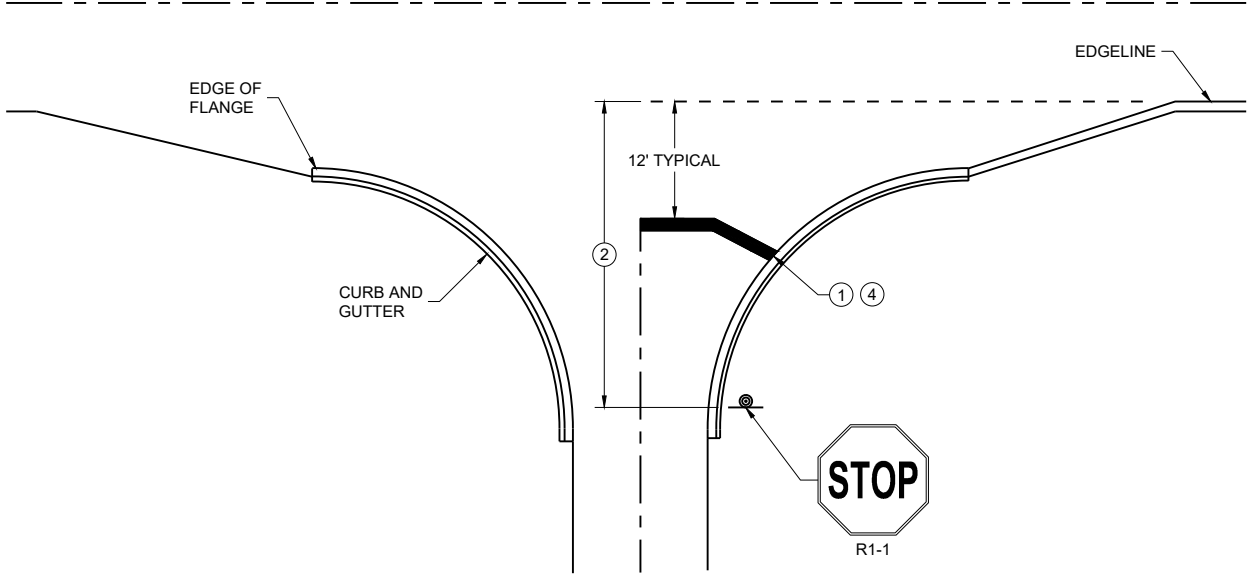
PAVEMENT MARKING,
ENTRANCE RAMP AND
PARALLEL ENTRANCE RAMP

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

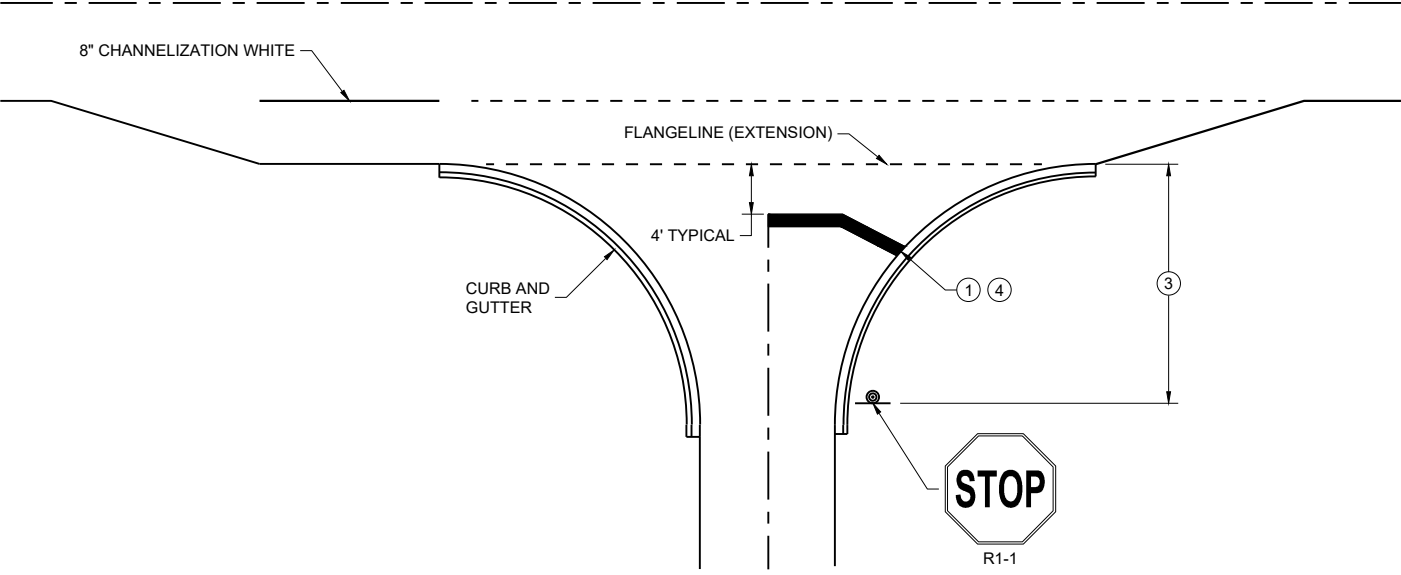


POSTED OR 85TH PERCENTILE SPEED	DISTANCE "A"
40	670'
45	775'
50	885'
55	990'
60	1100'
65	1200'
70	1250'

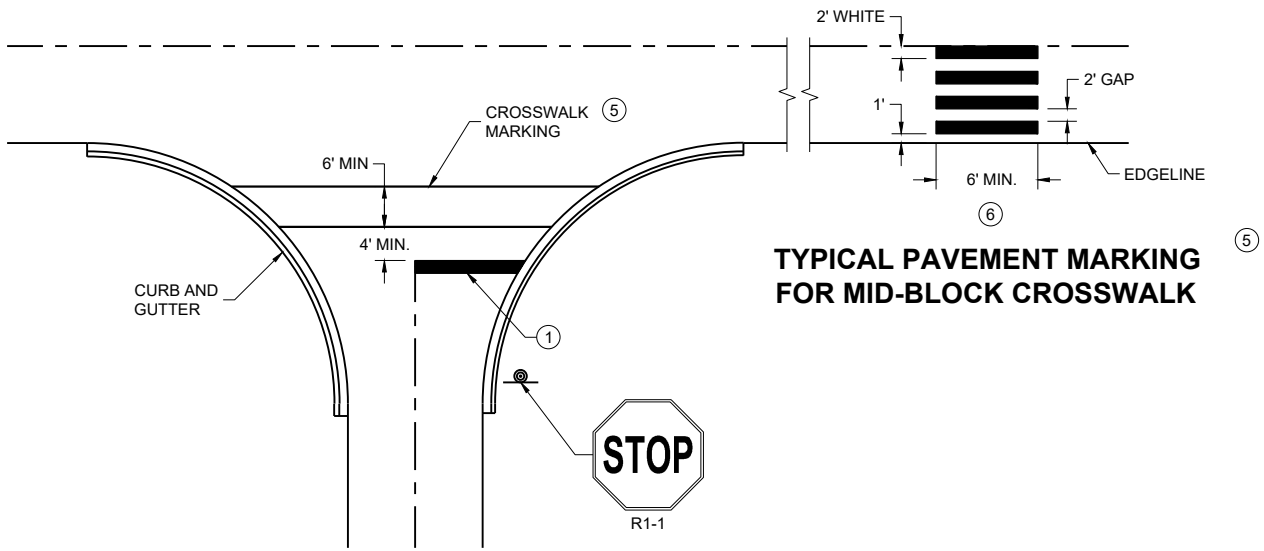
PAVEMENT MARKING, LANE DROP AND LANE REDUCTION	
STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION	
APPROVED <u>November 2024</u> DATE	<u>/S/ Matthew Rauch</u> WORK ZONE ENGINEER



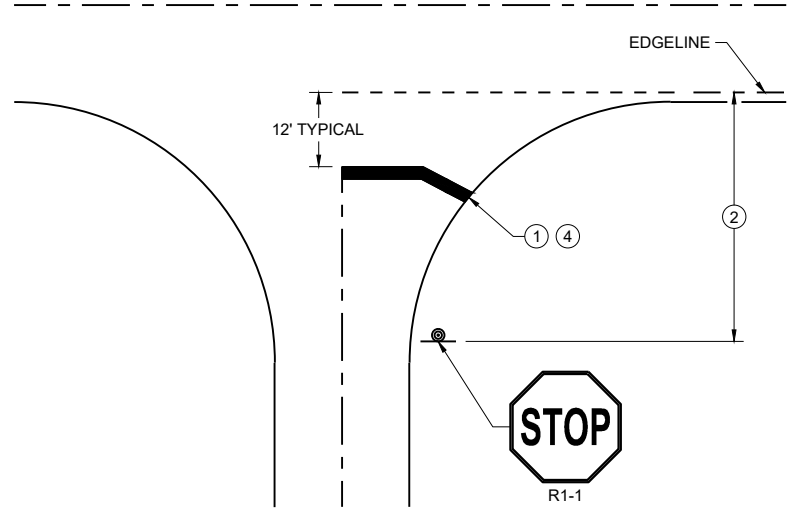
TYPICAL STOP LINE PAVEMENT MARKING
WITH CURB AND GUTTER



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

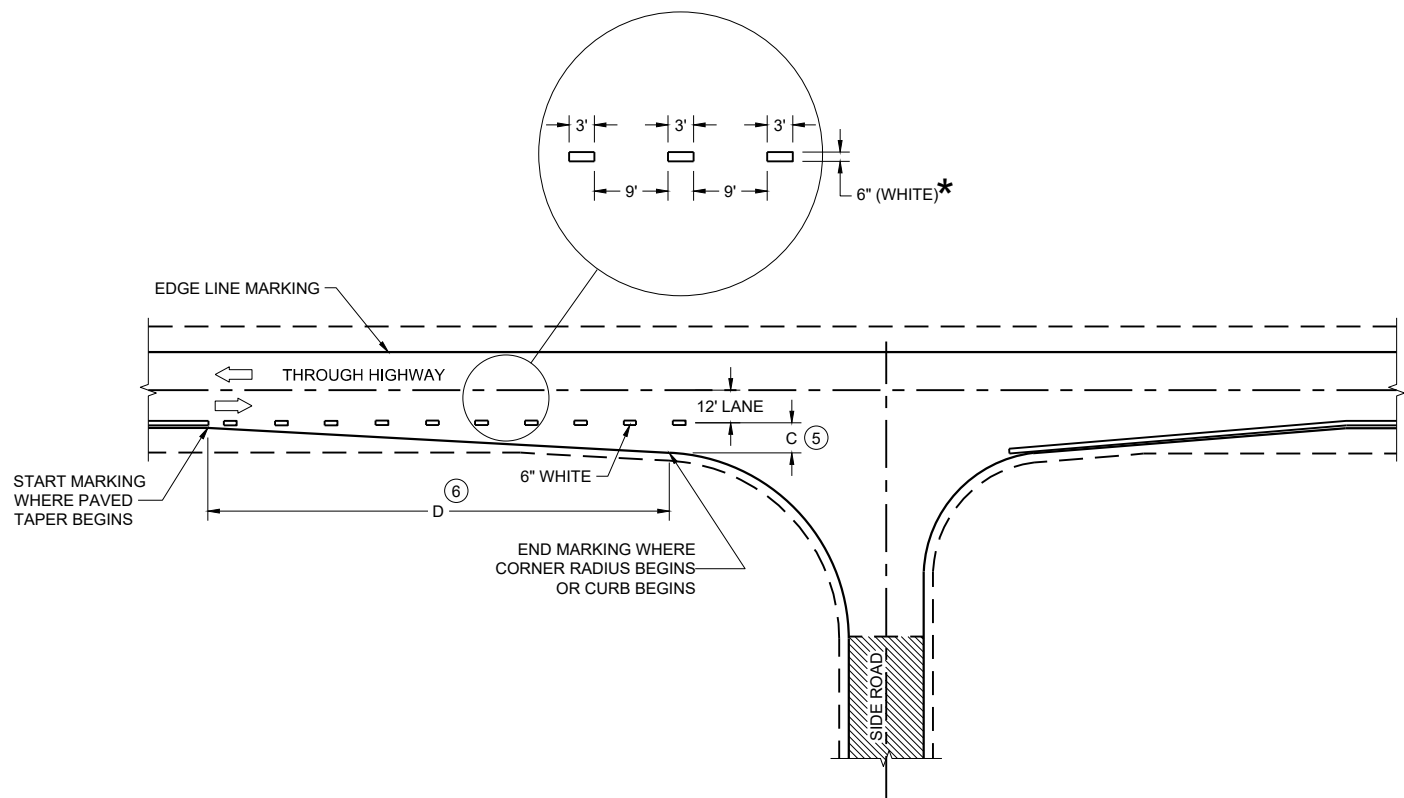
STOP SIGN SHALL BE PLACED A MINIMUM OF 6 FEET TO A MAXIMUM OF 50 FEET FROM THE EDGELINE LOCATION.

- 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

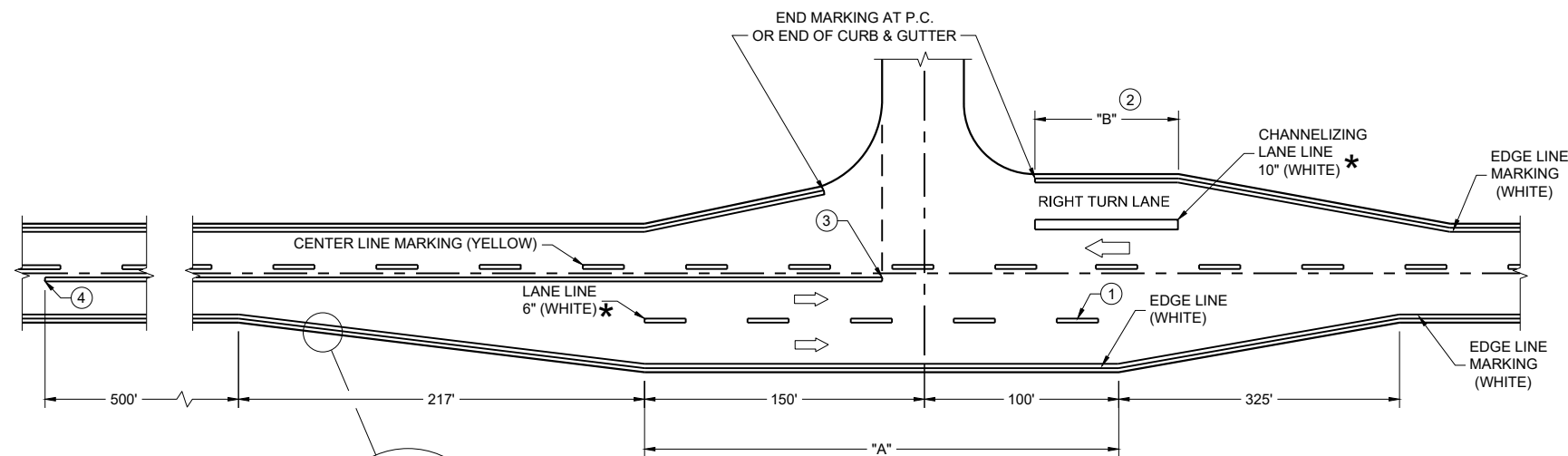
STOP LINE AND CROSSWALK
PAVEMENT MARKING

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

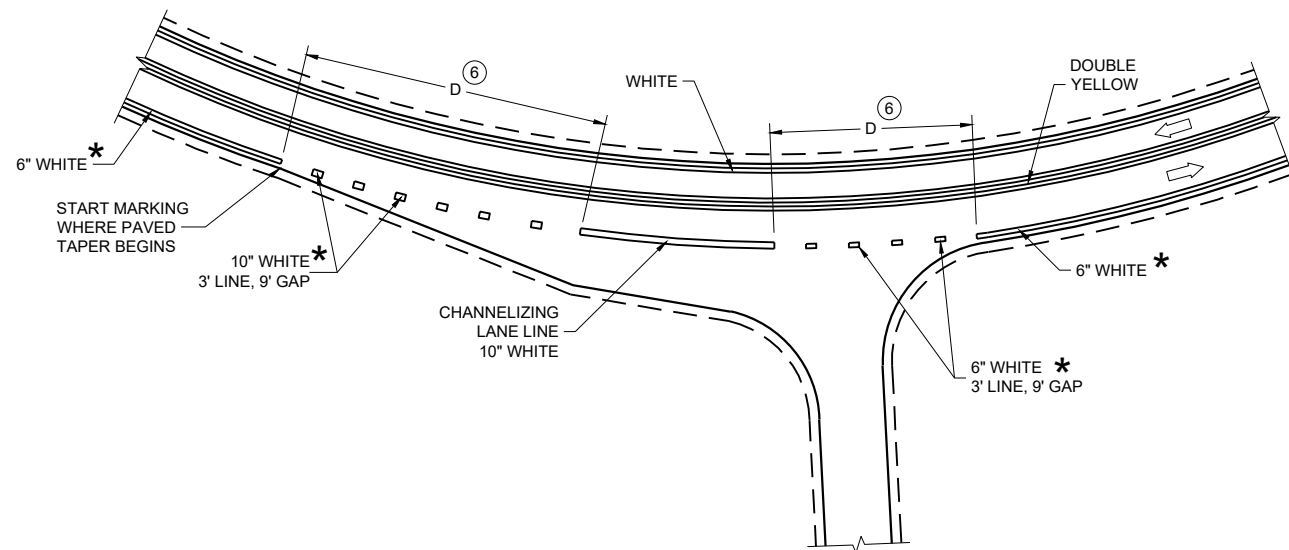
GENERAL NOTES

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

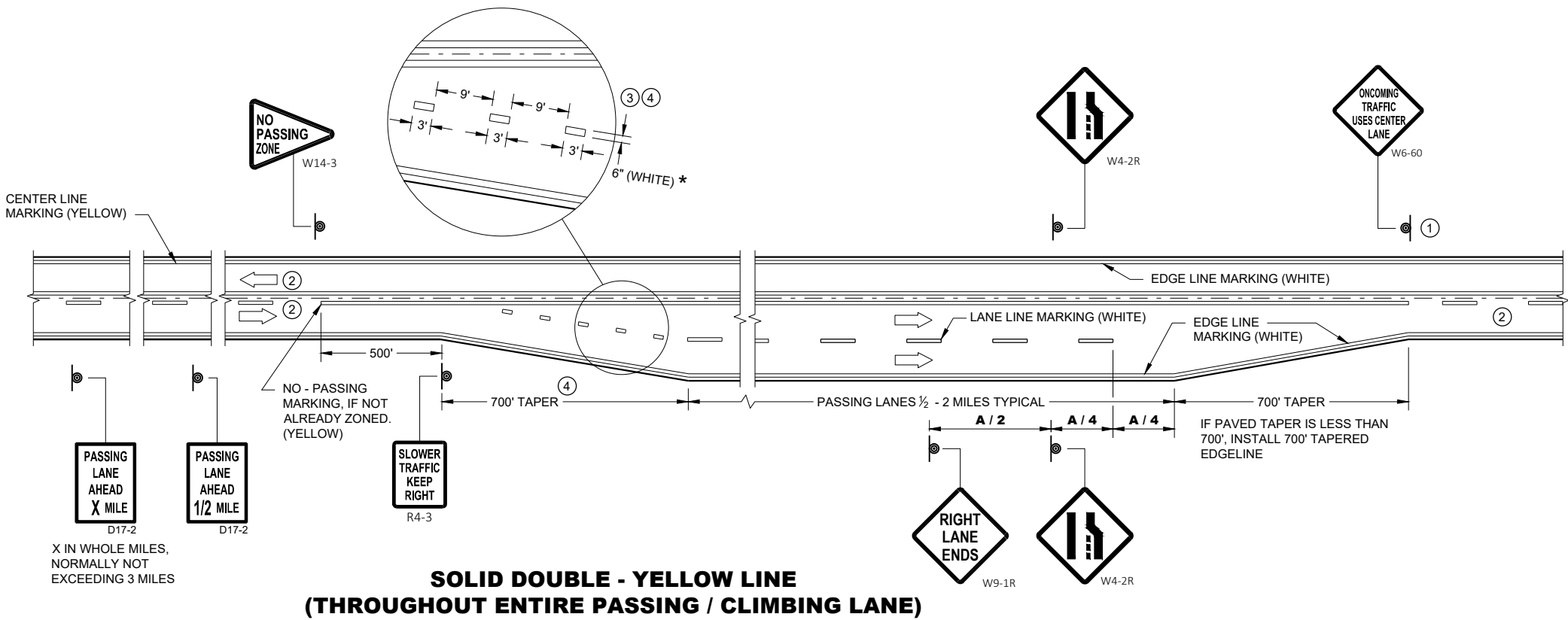
➡ DIRECTION OF TRAVEL



INTERSECTION ON OUTSIDE OF CURVE

PAVEMENT MARKING
(INTERSECTIONS)

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION



GENERAL NOTES

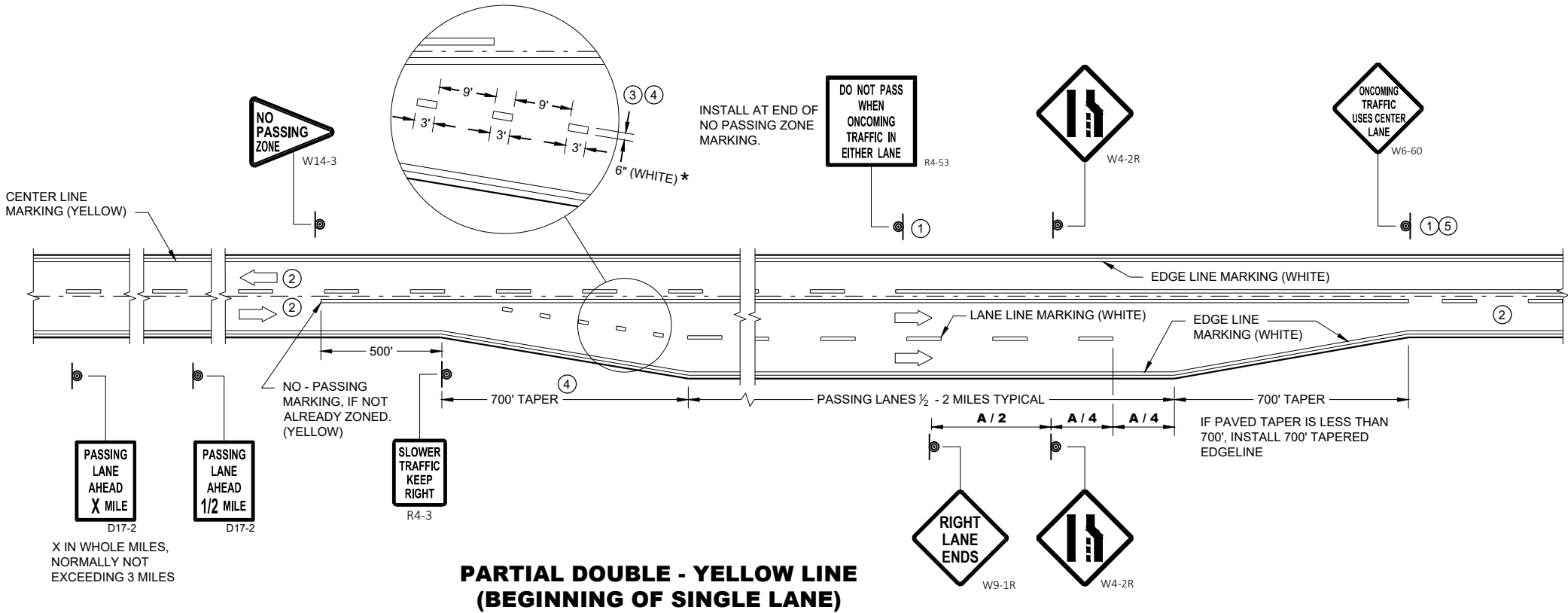
- 1 SIGN SHALL BE REPEATED AT 1 MILE INCREMENTS OR AT THE DISCRETION OF THE REGIONAL TRAFFIC ENGINEER.
- 2 THERE MAY BE SOLID YELLOW ON THE CENTERLINE DUE TO SIGHT CONDITIONS.
- 3 THE TAPER LENGTH OF THE DOTTED LINE PAVEMENT MARKING SHALL BE 700 FEET, 3' LINE, 9' GAP, EXCEPT RETRACE THE EXISTING LINE - GAP PATTERN WHERE EXISTING MARKINGS ARE IN PLACE.
- 4 WHEN THE ENTRANCE TAPER IS LESS THAN 700 FEET OR THE SHOULDER WIDTH IN THE PASSING / CLIMBING LANE IS LESS THAN THE ADJACENT HIGHWAY, DO NOT INSTALL DOTTED LINE PAVEMENT MARKING.
- 5 REPEAT EVERY 1 MILE UP UNTIL R4-53.

ARROW SYMBOL (➡) SHOWS DIRECTION OF TRAVEL

DISTANCE TABLE

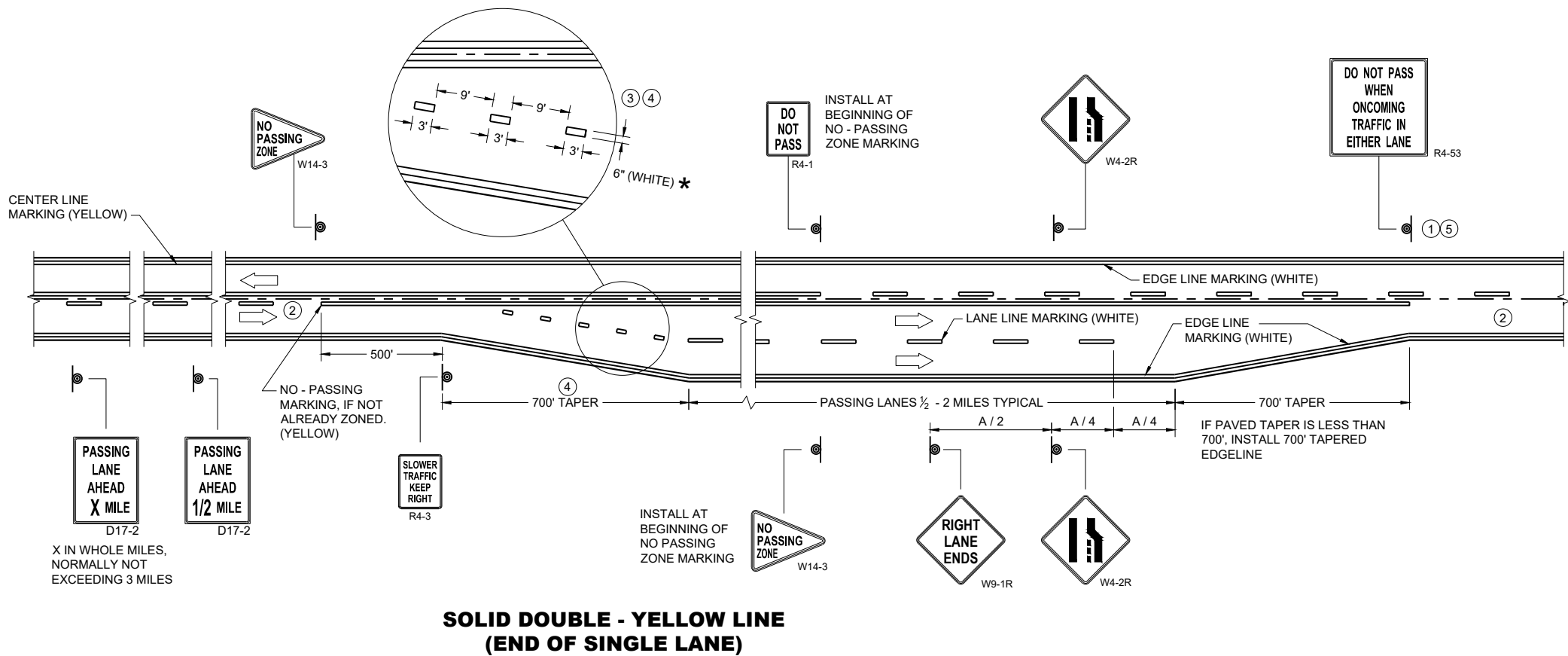
POSTED OR 85th PERCENTILE SPEED	DISTANCE "A"
45	775
50	885
55	990

* CONFIRM MARKING LINE WIDTH WITH THE MISCELLANEOUS QUANTITIES



PAVEMENT MARKING & SIGNING
(CLIMBING LANE & PASSING LANE)

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION



GENERAL NOTES

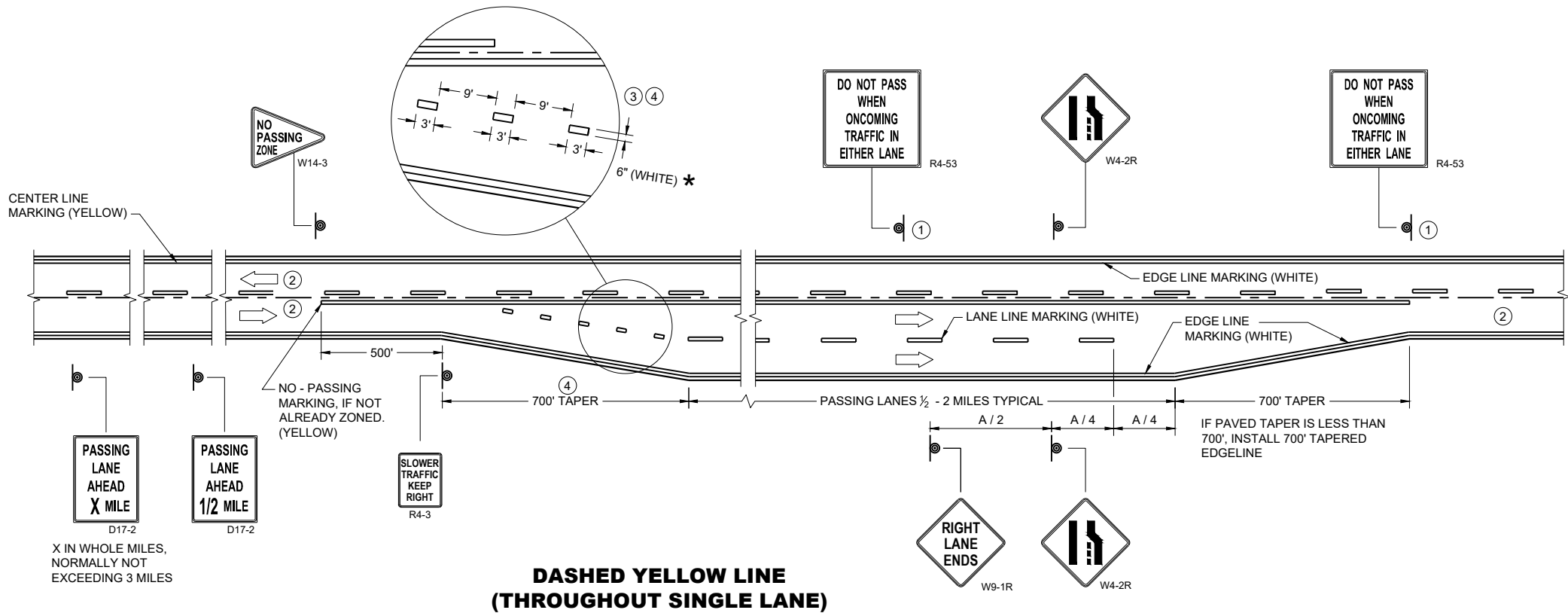
- 1 SIGN SHALL BE REPEATED AT 1 MILE INCREMENTS OR AT THE DISCRETION OF THE REGIONAL TRAFFIC ENGINEER.
- 2 THERE MAY BE SOLID YELLOW ON THE CENTERLINE DUE TO SIGHT CONDITIONS.
- 3 THE TAPER LENGTH OF THE DOTTED LINE PAVEMENT MARKING SHALL BE 700 FEET, 3' LINE, 9' GAP, EXCEPT RETRACE THE EXISTING LINE - GAP PATTERN WHERE EXISTING MARKINGS ARE IN PLACE.
- 4 WHEN THE ENTRANCE TAPER IS LESS THAN 700 FEET OR THE SHOULDER WIDTH IN THE PASSING / CLIMBING LANE IS LESS THAN THE ADJACENT HIGHWAY, DO NOT INSTALL DOTTED LINE PAVEMENT MARKING.
- 5 REPEAT EVERY ONE MILE UP UNTIL NO PASSING ZONE.

ARROW SYMBOL () SHOWS DIRECTION OF TRAVEL

DISTANCE TABLE

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

*CONFIRM MARKING LINE WIDTH WITH THE MISCELLANEOUS QUANTITIES



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

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
May 2023 /S/ Jeannie Silver
DATE Statewide Pavement Marking Engineer
FHWA

GENERAL NOTES

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

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

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

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

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

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

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

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

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

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

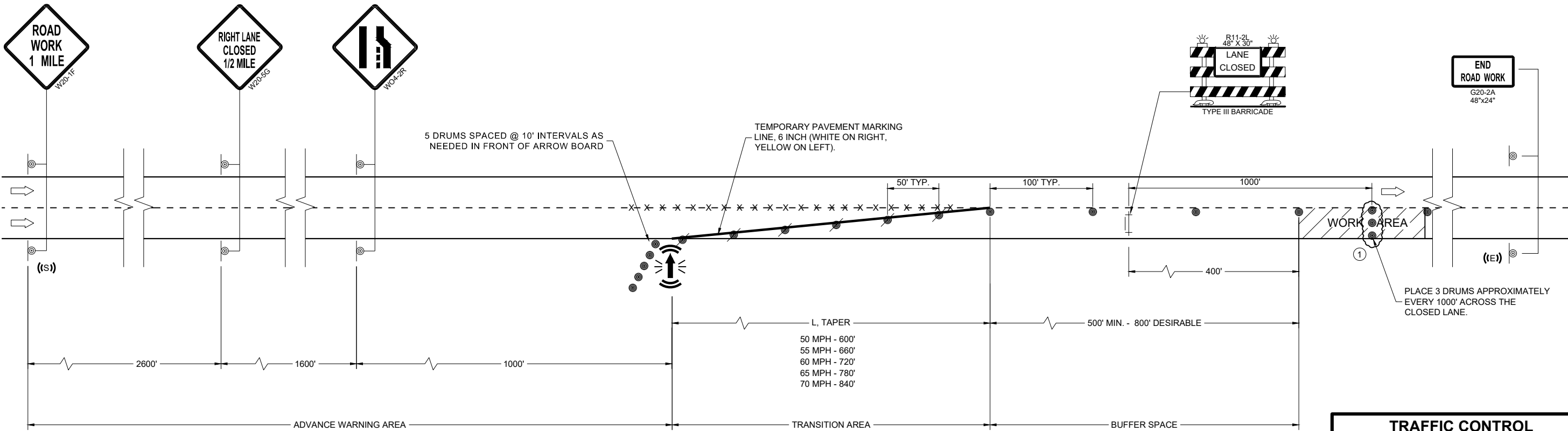
ADJUSTMENTS IN BUFFER SPACE NEED TO BE INCORPORATED WHEN THE LANE CLOSURE OCCURS NEAR AN INTERCHANGE EXIT OR ENTRANCE RAMP OR INTERSECTION. THE LANE CLOSURE MUST TAKE PLACE FAR ENOUGH IN ADVANCE OF AN EXIT OR ENTRANCE RAMP TO STILL ALLOW FOR ADEQUATE BUFFER SPACE. THE MINIMUM LENGTH OF THE BUFFER SPACE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

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

① DRUMS IN A CLOSED LANE THAT MUST BE MOVED FOR A WORK OPERATION SHALL BE IMMEDIATELY REESTABLISHED UPON COMPLETION OF THE OPERATION, OR FOR CONTINUING OPERATIONS, AT THE END OF EACH WORKING DAY.

LEGEND

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



TRAFFIC CONTROL LANE CLOSURE	
STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION	
APPROVED February 2025 DATE	/S/ Andrew Heidtke ROADWAY STANDARDS DEVELOPMENT UNIT SUPERVISOR
FHWA	

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

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.

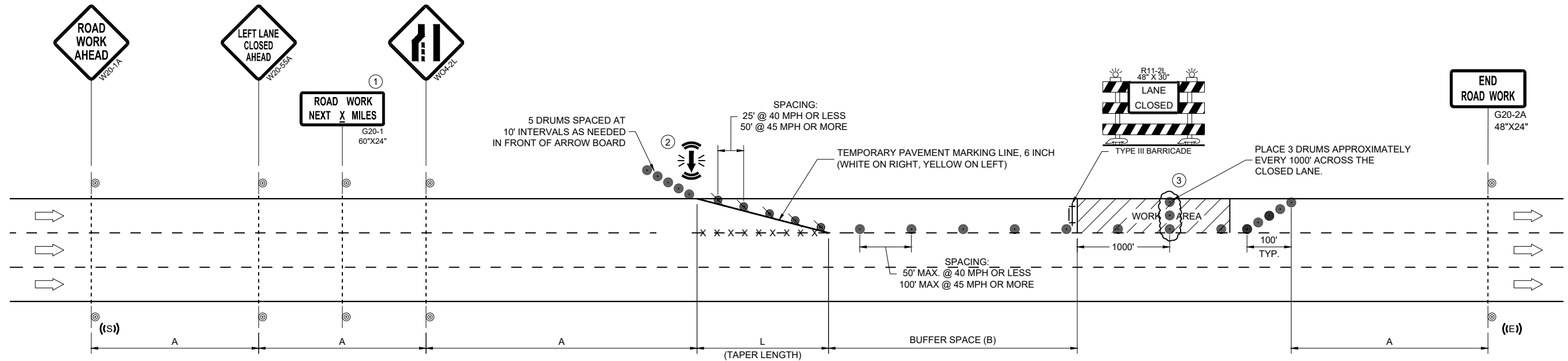
THE EXACT NUMBER, LOCATION, AND SPACING OF ALL SIGNS AND DEVICES SHALL BE ADJUSTED TO FIT FIELD CONDITIONS AS APPROVED BY THE ENGINEER.

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

- 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.
- ③ DRUMS IN A CLOSED LANE THAT MUST BE MOVED FOR A WORK OPERATION SHALL BE IMMEDIATELY REESTABLISHED UPON COMPLETION OF THE OPERATION, OR FOR CONTINUING OPERATIONS, AT THE END OF EACH WORKING DAY.



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'	155'
30	200'	180'	200'
35	350'	245'	250'
40	350'	320'	305'
45	500'	540'	360'

APPROVED
February 2025
DATE

/S/ Andrew Heidtke
WORK ZONE ENGINEER

LEGEND

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

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.

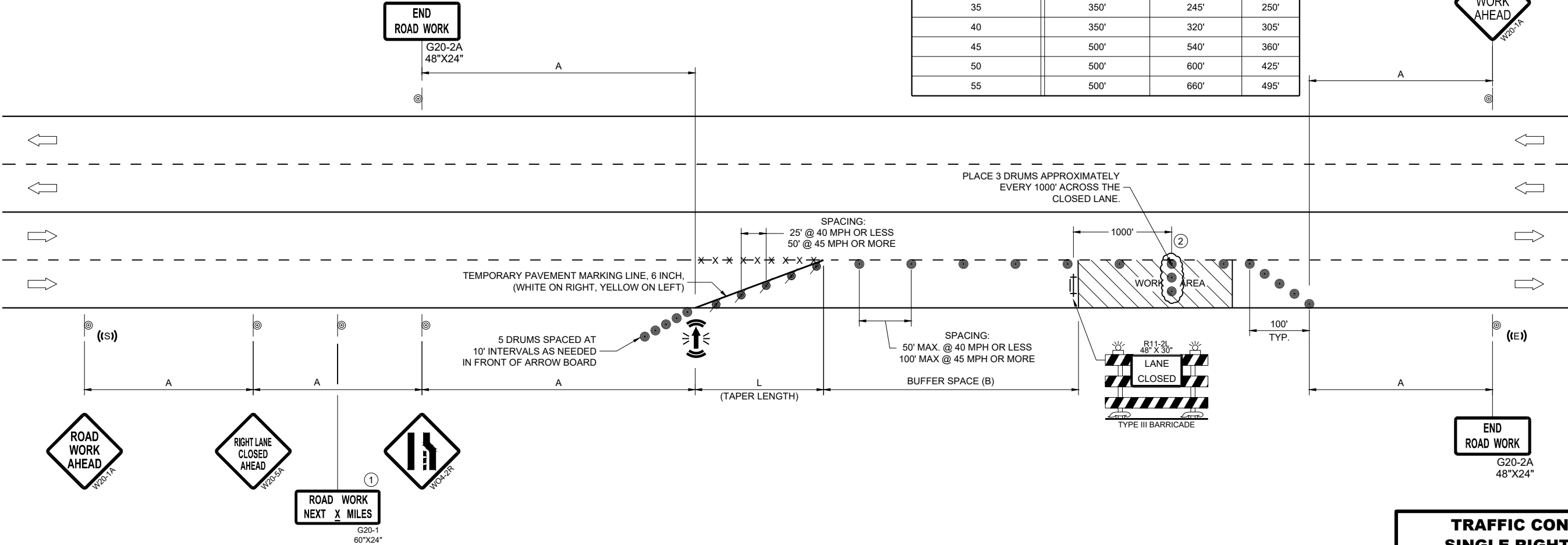
CONSIDER GEOMETRICS WHEN LOCATING SIGNS AND ARROW BOARDS SO THE APPROACHING DRIVER HAS A CLEAR VIEW OF THE ARROW BOARDS AND LANE CLOSURE DRUMS FOR A MINIMUM 1500 FEET IN FRONT OF DRUMS.

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'	155'
30	200'	180'	200'
35	350'	245'	250'
40	350'	320'	305'
45	500'	540'	360'
50	500'	600'	425'
55	500'	660'	495'

- ① OMIT G20-1 SIGNS IF LENGTH OF WORK AREA IS 2 MILES OR LESS.
- ② DRUMS IN A CLOSED LANE THAT MUST BE MOVED FOR A WORK OPERATION SHALL BE IMMEDIATELY REESTABLISHED UPON COMPLETION OF THE OPERATION, OR FOR CONTINUING OPERATIONS, AT THE END OF EACH WORKING DAY.



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

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
February 2025 /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
- DIRECTION OF TRAFFIC
- WORK AREA
- CONNECTED ARROW BOARD
- WZ START LOCATION MARKER
- WZ END LOCATION MARKER

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.

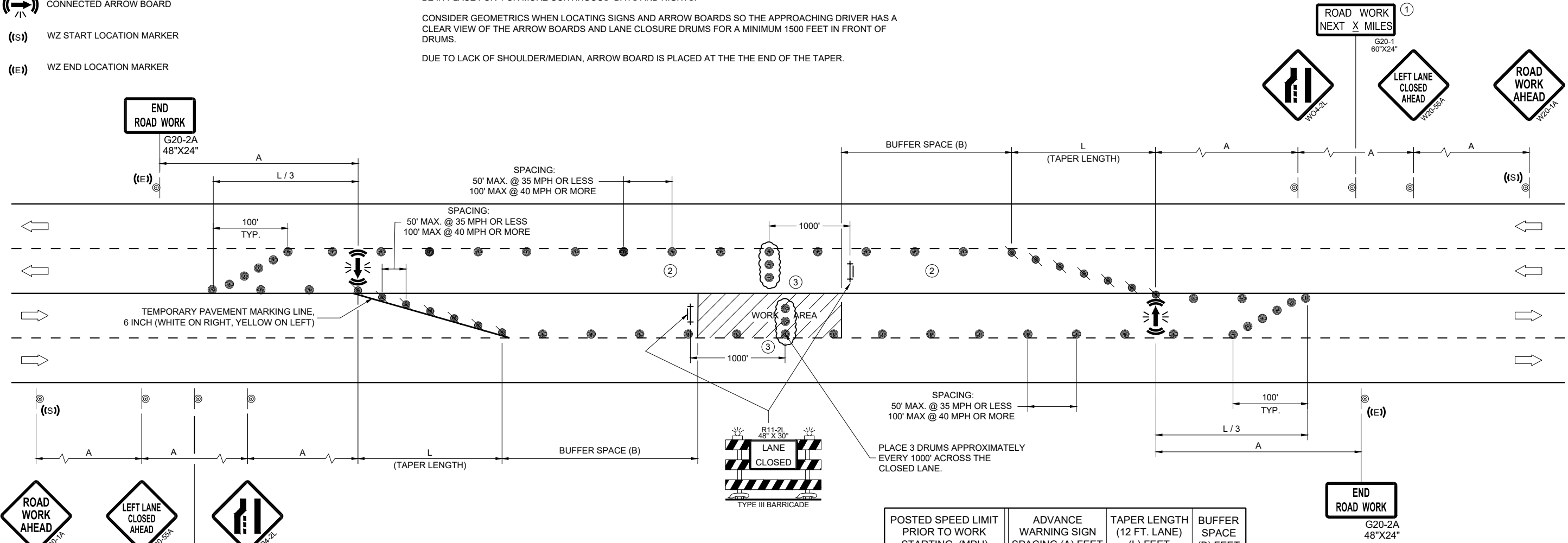
DUE TO LACK OF SHOULDER/MEDIAN, ARROW BOARD IS PLACED AT THE THE END OF THE TAPER.

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.

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



POSTED SPEED LIMIT PRIOR TO WORK STARTING (MPH)	ADVANCE WARNING SIGN SPACING (A) FEET	TAPER LENGTH (12 FT. LANE) (L) FEET	BUFFER SPACE (B) FEET
25	200'	125'	155'
30	200'	180'	200'
35	350'	245'	250'
40	350'	320'	305'
45	500'	540'	360'
50	500'	600'	425'
55	500'	660'	495'

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

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
February 2025 /S/ Andrew Heidtke
DATE WORK ZONE ENGINEER

FHWA

LEGEND

-  SIGN ON PERMANENT SUPPORT
-  TRAFFIC CONTROL DRUM
-  DIRECTION OF TRAFFIC
-  CONNECTED ARROW BOARD
-  WORK AREA
-  WZ START LOCATION MARKER
-  WZ END LOCATION MARKER

GENERAL NOTES

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

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

ALL SIGNS ARE 48"X48" UNLESS OTHERWISE NOTED.

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

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

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

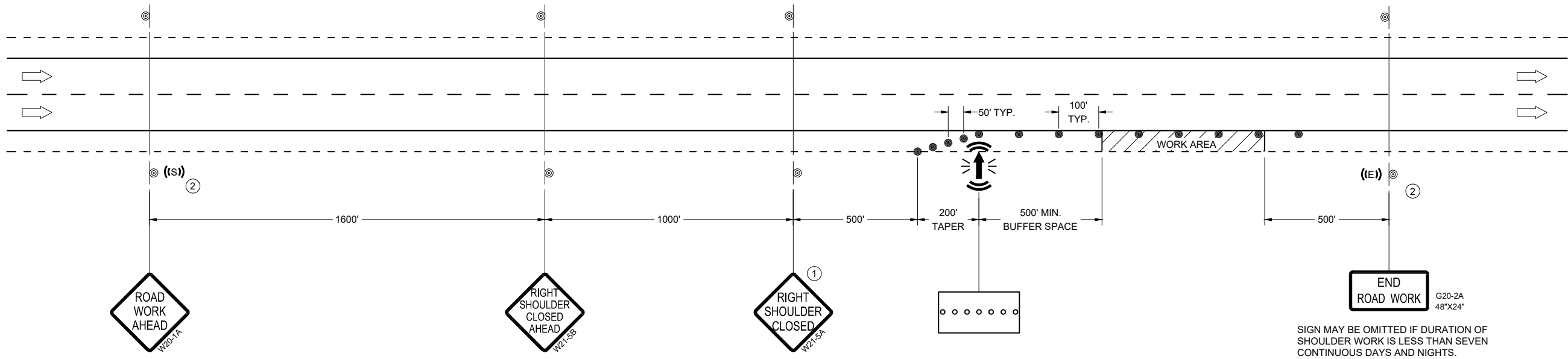
CHANNELIZING DEVICES PLACED ADJACENT TO WORK AREA SHALL BE PULLED BACK FROM THE TRAVEL LANE WHEN WORK IS NOT IN PROGRESS.

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

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

① FOR SHORT DURATION SHOULDER WORK OF LESS THAN ONE HOUR THE W21-5A SIGN MAY BE OMITTED.

② IF ALREADY PRESENT WITHIN PROJECT , DO NOT INCLUDE ADDITIONAL DEVICE.



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

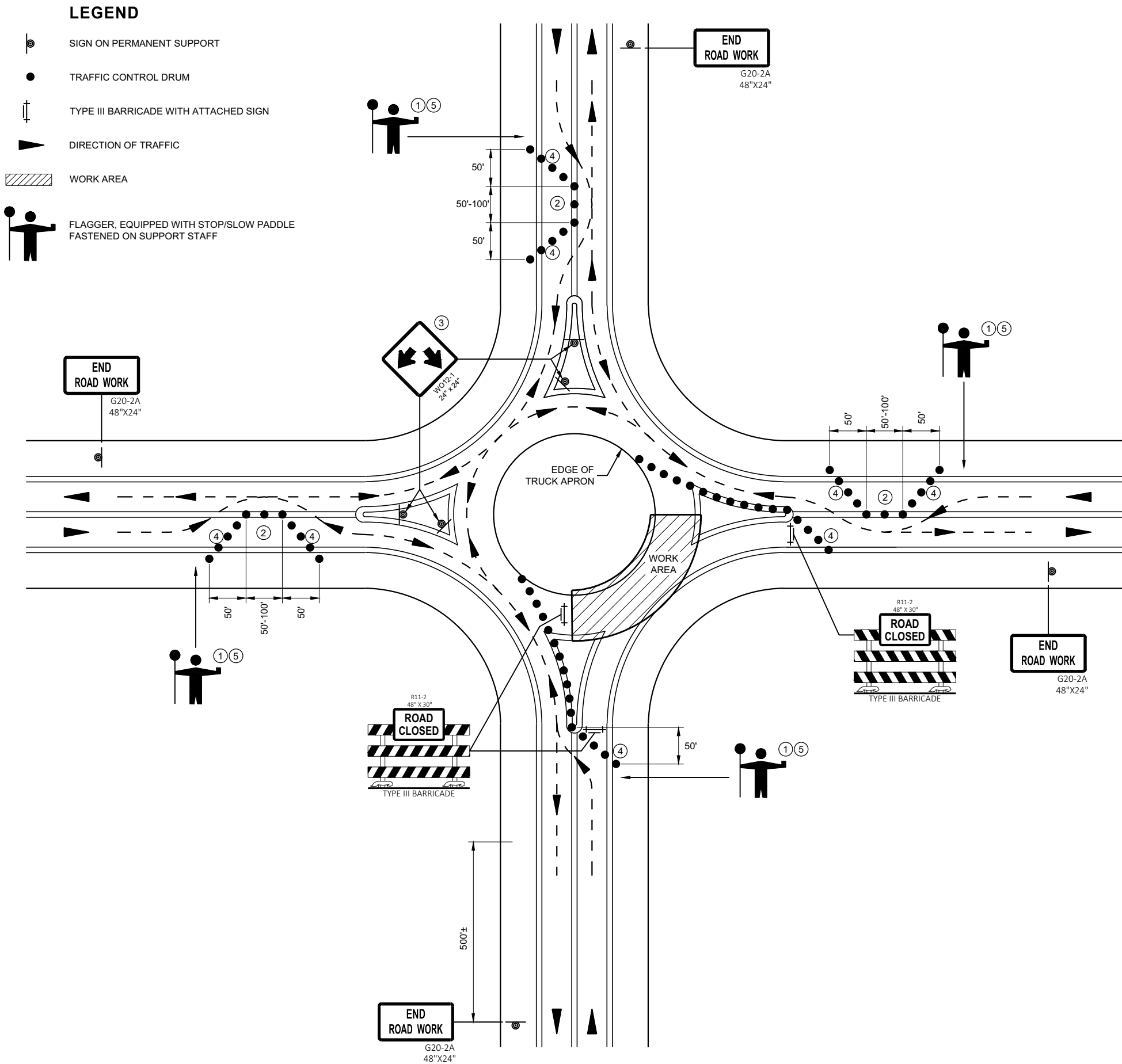
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED

February 2025
DATE

FHWA

/S/ Andrew Heidtke
STATEWIDE WORK ZONE TRAFFIC
SAFETY ENGINEER



**TRAFFIC CONTROL,
FLAGGING OPERATION,
ROUNDABOUT**

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

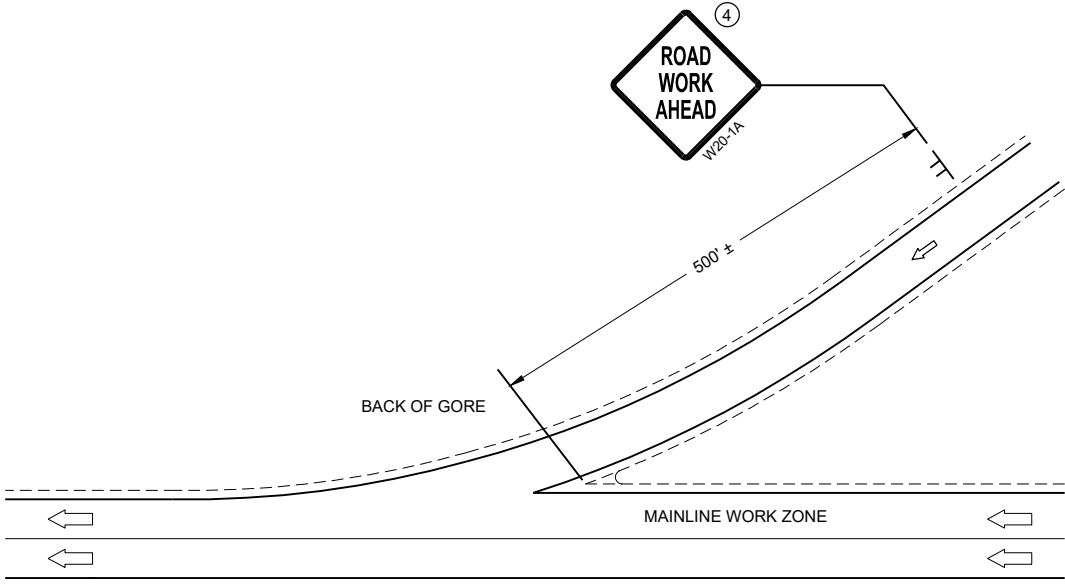
APPROVED
May 2020
DATE

/S/ Andrew Heidtke
STATEWIDE WORK ZONE TRAFFIC
SAFETY ENGINEER

FHWA

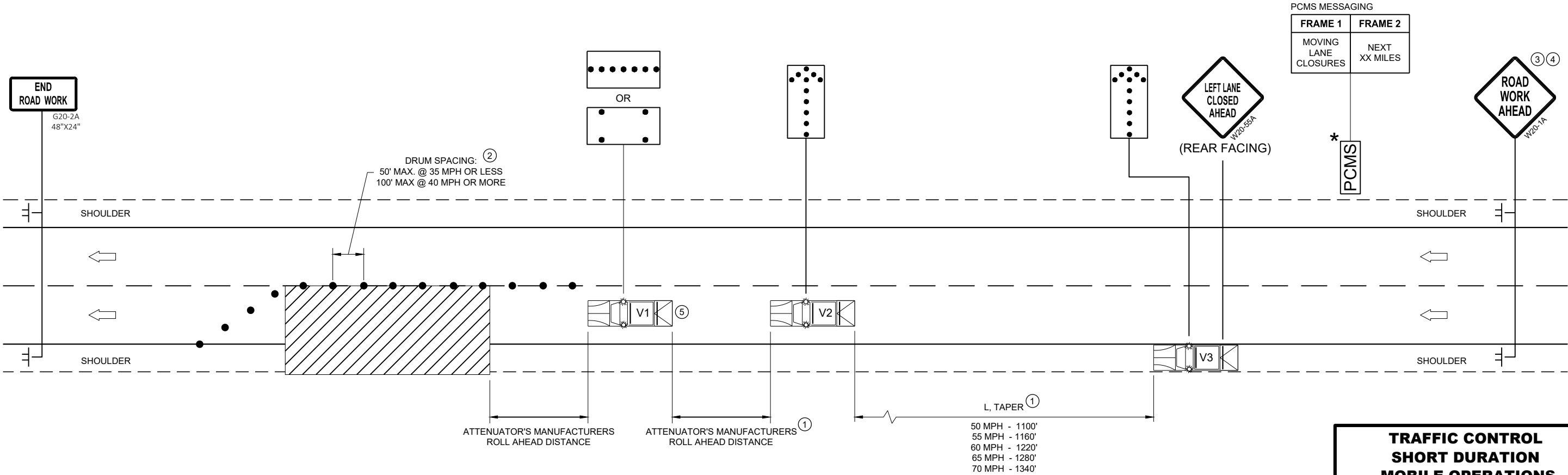
LEGEND

- 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)
- PCMS PORTABLE CHANGEABLE MESSAGE SIGN
- ▨ WORK AREA



GENERAL NOTES

- SHORT DURATION IS WORK THAT OCCUPIES A LOCATION UP TO 1 HOUR.
- MOBILE IS WORK THAT MOVES INTERMITTENTLY OR CONTINUOUSLY.
- ALL VEHICLES SHALL BE EQUIPPED WITH TWO 360 DEGREE HIGH INTENSITY YELLOW FLASHING LIGHTS OR STROBE LIGHTS AND OPERATED WITH HEADLIGHTS TURNED ON.
- ALL VEHICLES SHALL BE EQUIPPED WITH REAR FACING TYPE B OR C FLASHING ARROW PANEL. SIGNS PLACED ON VEHICLES MUST NOT OBSCURE THE ARROW PANEL.
- ALL SIGNS ARE 48" X 48" UNLESS OTHERWISE SPECIFIED.
- WHEN WORK ACTIVITY BLOCKS THE RIGHT LANE, REVERSE TRAFFIC CONTROL.
- WHEN A RAMP INTERSECTS THE FACILITY ON WHICH THE WORK IS BEING PERFORMED, PROVIDE ADDITIONAL TRAFFIC CONTROLS AS SPECIFIED IN THE CONTRACT OR AS APPROVED BY THE ENGINEER.
- USE DOUBLE ARROWS WHEN CONVOY IS IN CENTER LANE ONLY.
- WHEN NO WORK ACTIVITY IS TAKING PLACE, REMOVE OR LAY STATIONARY SIGNS AND SUPPORTS FLAT ON THE GRADE WITH UPRIGHTS ORIENTED PARALLEL TO AND DOWNSTREAM FROM TRAFFIC
- ① DISTANCE BETWEEN VEHICLES MAY VARY ACCORDING TO TERRAIN, SIGHT DISTANCE AND OTHER FACTORS. WHENEVER ADEQUATE STOPPING SIGHT DISTANCE EXISTS TO THE REAR, SHADOW VEHICLES SHOULD MAINTAIN THE MINIMUM DISTANCE FROM THE WORK VEHICLE AND PROCEED AT THE SAME SPEED AS THE WORK VEHICLE. SHADOW VEHICLES SHOULD SLOW DOWN IN ADVANCE OF VERTICAL AND HORIZONTAL CURVES THAT RESTRICT SIGHT DISTANCE.
 - ② DRUMS ARE TO BE USED FOR BRIDGE DECK SEALING AND OTHER PROJECTS THAT REQUIRE DELINEATION.
 - ③ WITHIN 5 MILES, RELOCATE SIGNS AS WORK PROGRESSES AND NECESSARY OR AS DIRECTED BY THE ENGINEER.
 - ④ SIGN NOT REQUIRED IF MOVING OPERATION OCCURS WITHIN A SIGNED ROAD WORK ZONE AREA.
 - ⑤ SHADOW VEHICLE 1 (V1) IS OPTIONAL
- * PCMS OPTIONAL



PCMS MESSAGING	
FRAME 1	FRAME 2
MOVING LANE CLOSURES	NEXT XX MILES

* PCMS

TRAFFIC CONTROL SHORT DURATION MOBILE OPERATIONS	
STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION	
APPROVED August 2021 DATE	/S/ Andrew Heidtke WORK ZONE ENGINEER
FHWA	

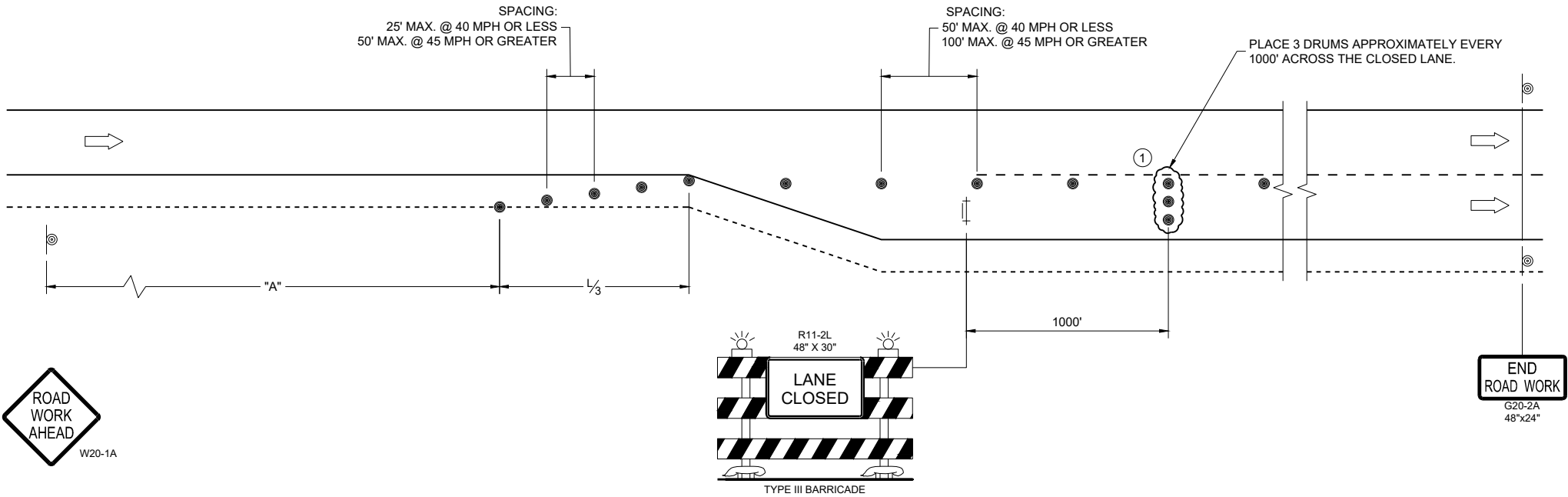
LEGEND

- 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 $L\frac{1}{2}$					
		W, LATERAL OFFSET (FT)					
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.
- ① DRUMS IN A CLOSED LANE THAT MUST BE MOVED FOR A WORK OPERATION SHALL BE IMMEDIATELY REESTABLISHED UPON COMPLETION OF THE OPERATION, OR FOR CONTINUING OPERATIONS, AT THE END OF EACH WORKING DAY.



TRAFFIC CONTROL
ADDED LANE CLOSURE
WITHOUT LANE SHIFT

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
February 2025 /S/ Andrew Heidtke
DATE WORK ZONE ENGINEER

FHWA

LEGEND

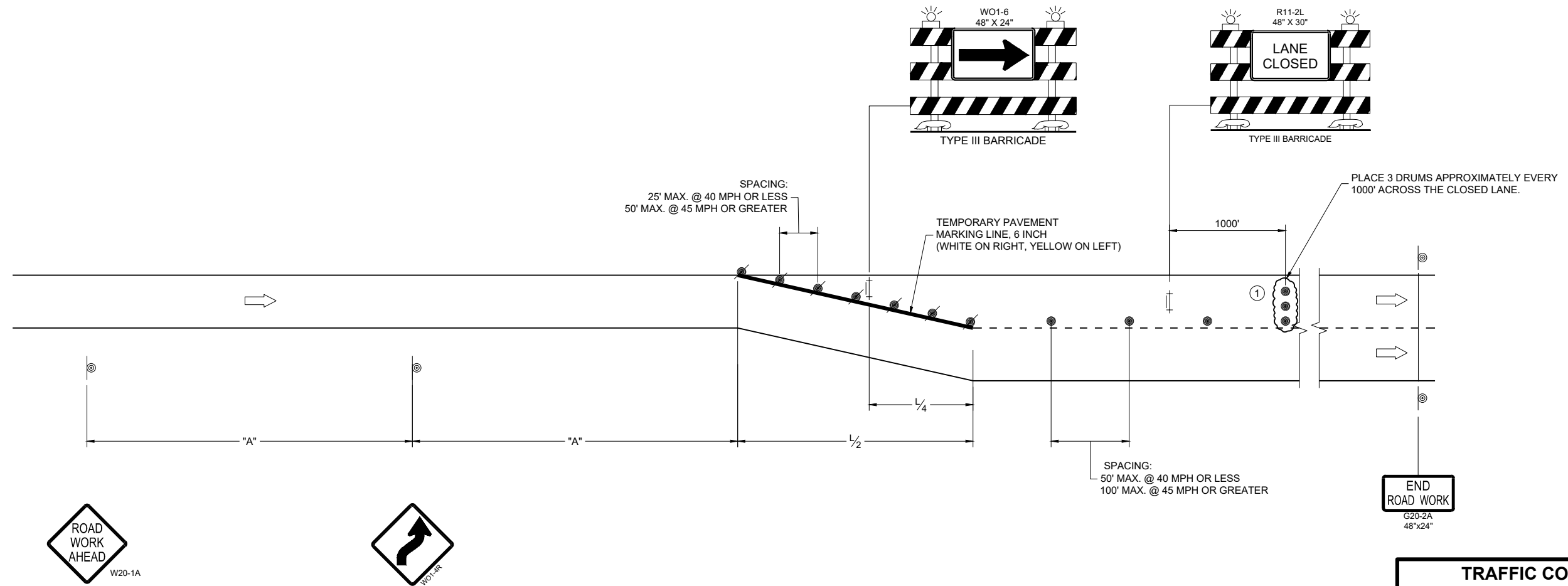


WORK AREA

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

① DRUMS IN A CLOSED LANE THAT MUST BE MOVED FOR A WORK OPERATION SHALL BE IMMEDIATELY REESTABLISHED UPON COMPLETION OF THE OPERATION, OR FOR CONTINUING OPERATIONS, AT THE END OF EACH WORKING DAY.



APPROVED
February 2025
DATE

/S/ Andrew Heidtke

WORK ZONE ENGINEER

LEGEND

- V1

WORK VEHICLE
- V2

SHADOW VEHICLE
- 

TRUCK MOUNTED ATTENUATOR (TMA)
- 

FLASHING ARROW PANEL (CAUTION)
- 

WORK AREA
- 

DIRECTION OF TRAFFIC

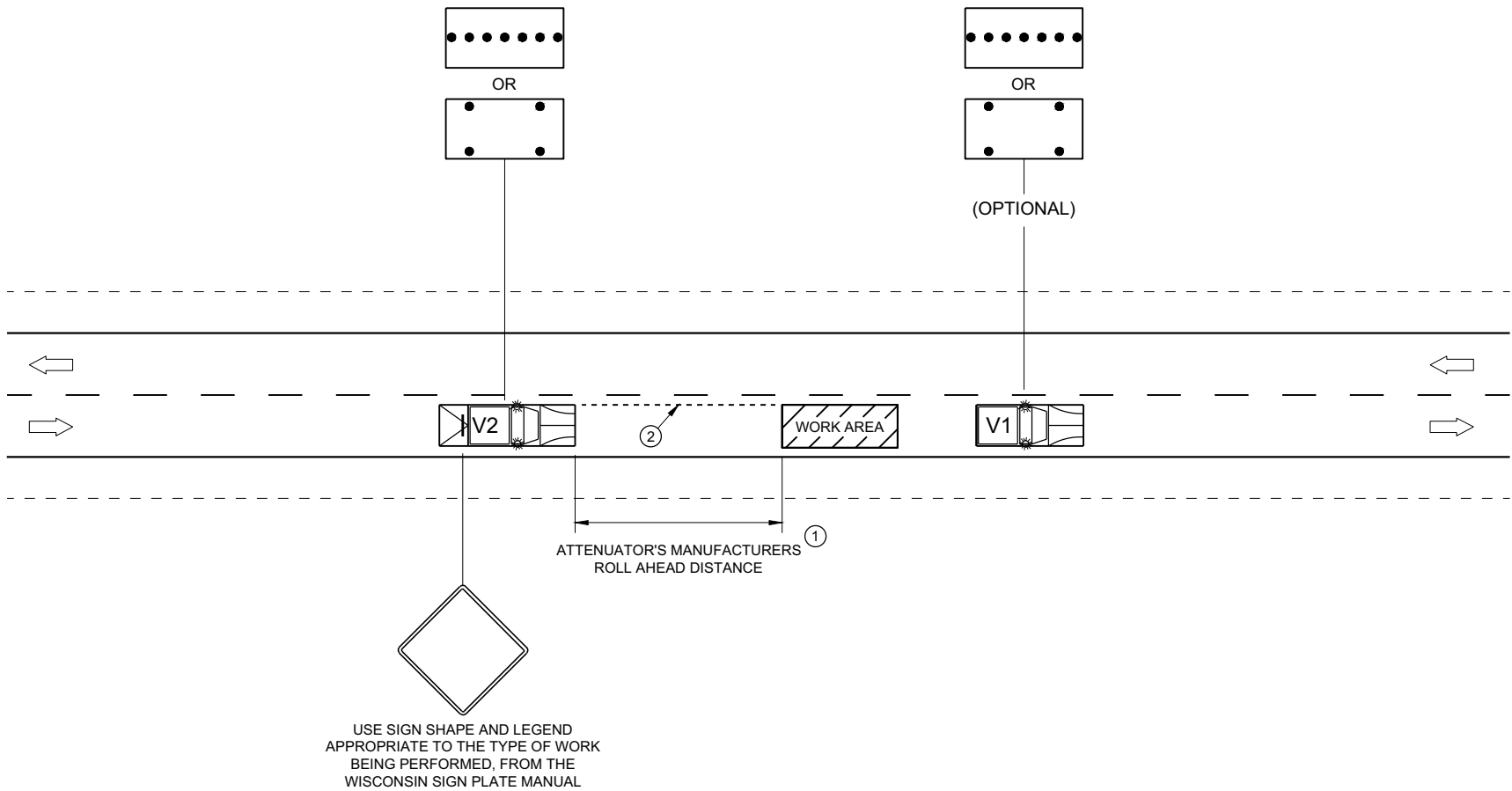
POSTED SPEED PRIOR TO WORK STARTING (MPH)	DECISION SIGHT DISTANCE (D)
0 - 25	550'
30	550'
35	700'
40	700'
45	900'
50	900'
55	1200'

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

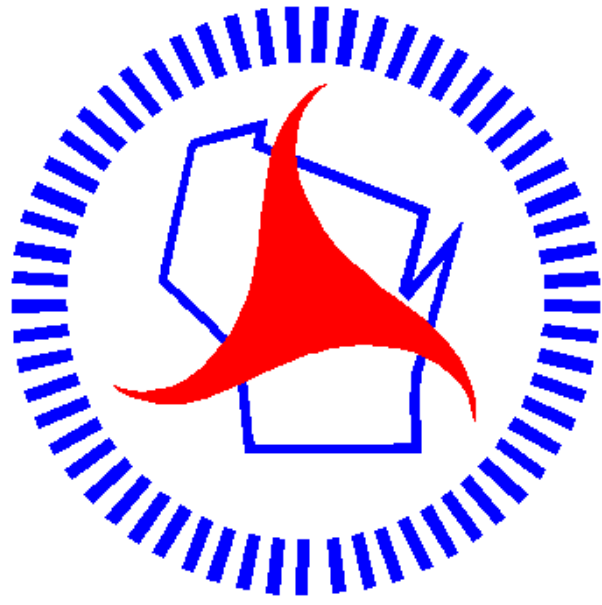
ALIGN LEFT SIDE OF SHADOW VEHICLE WITH EDGE OF WORK AREA.



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



Wisconsin Department of Transportation

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