

WKE

Feb 14, 2023

PROJECT ID:

1000-77-23

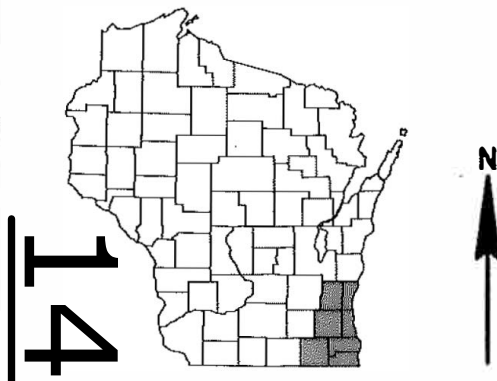
COUNTY:

SE REGION WIDE

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 = 62



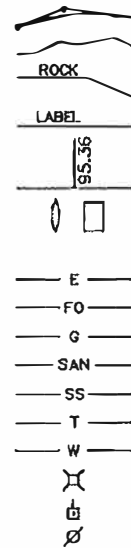
DESIGN DESIGNATION

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

CONVENTIONAL SYMBOLS

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

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



STATE OF WISCONSIN  
DEPARTMENT OF TRANSPORTATION

PLAN OF PROPOSED IMPROVEMENT

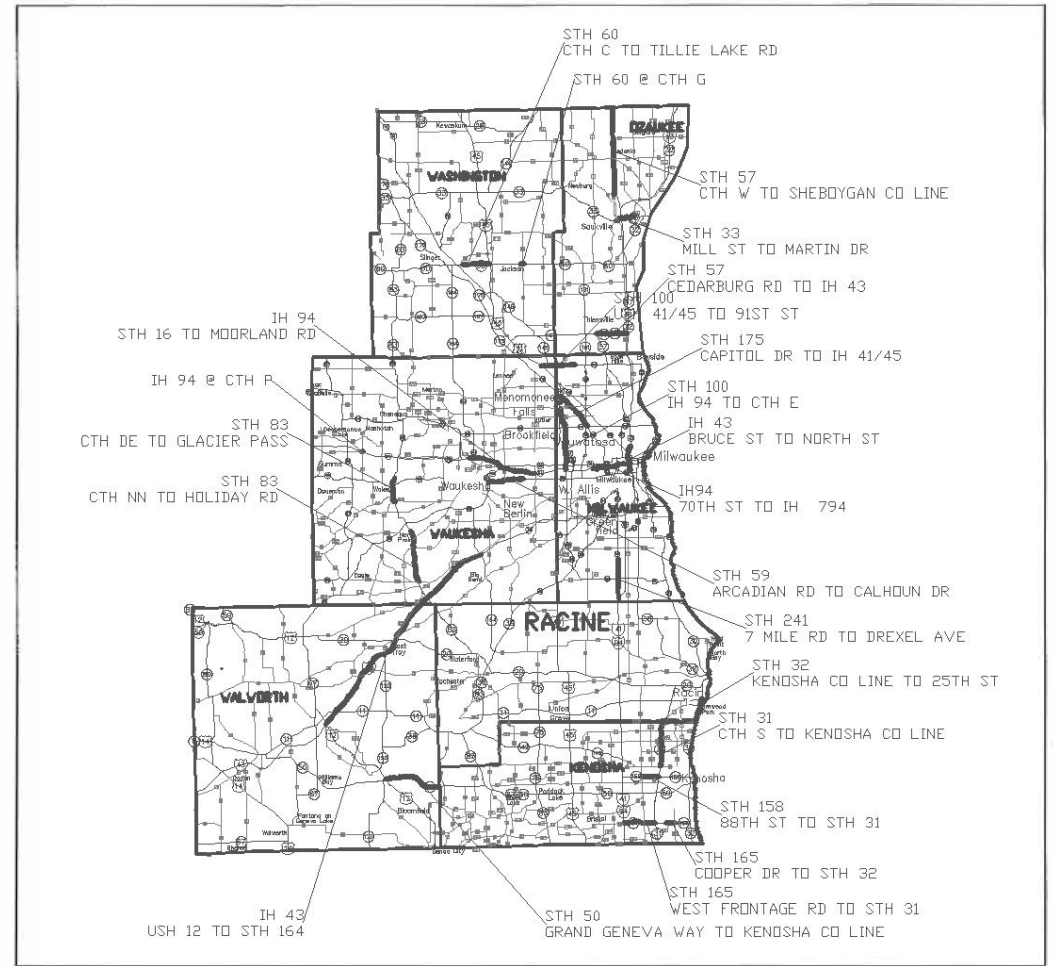
EPOXY PAVEMENT MARKING, 2023

LOCATIONS ON STN PER ANNUAL PLAN

VAR HWY

SOUTHEAST REGION WIDE

STATE PROJECT NUMBER  
1000-77-23



LAYOUT  
SCALE 0  
TOTAL NET LENGTH OF CENTERLINE =

STATE PROJECT	FEDERAL PROJECT	
	PROJECT	CONTRACT
1000-77-23		

STATE OF WISCONSIN  
DEPARTMENT OF TRANSPORTATION

PREPARED BY

Surveyor \_\_\_\_\_

Designer JEANNIE SILVER

Project Manager KAREN MARTENS

Regional Examiner \_\_\_\_\_

Regional Supervisor MATTRAUCH

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APPROVED FOR THE DEPARTMENT

DATE: 9-20-2022 Matthew R. Paul  
(Signature)

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**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.



**REGION CONTACTS**

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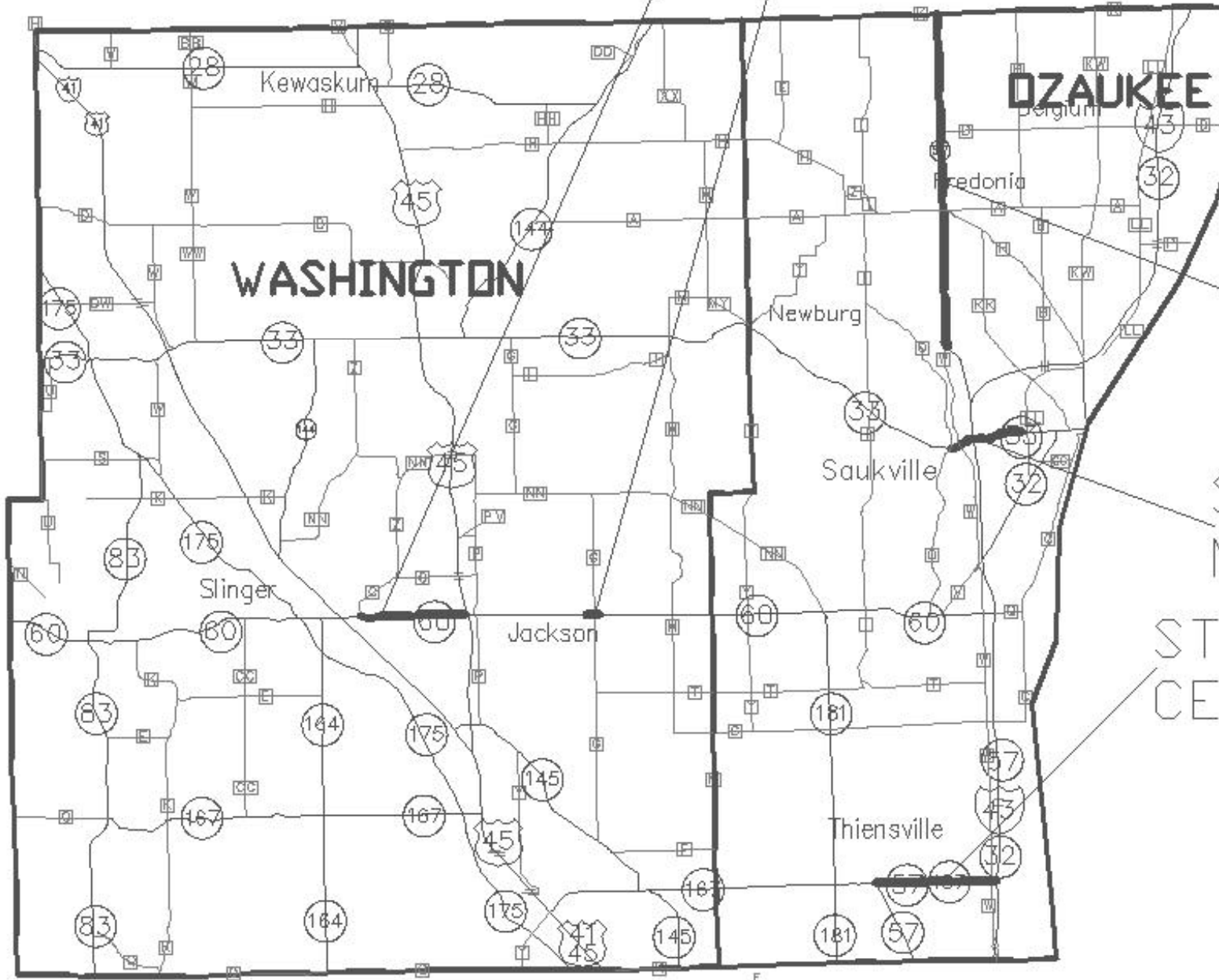
STH 60  
CTH C TO TILLIE LAKE RD

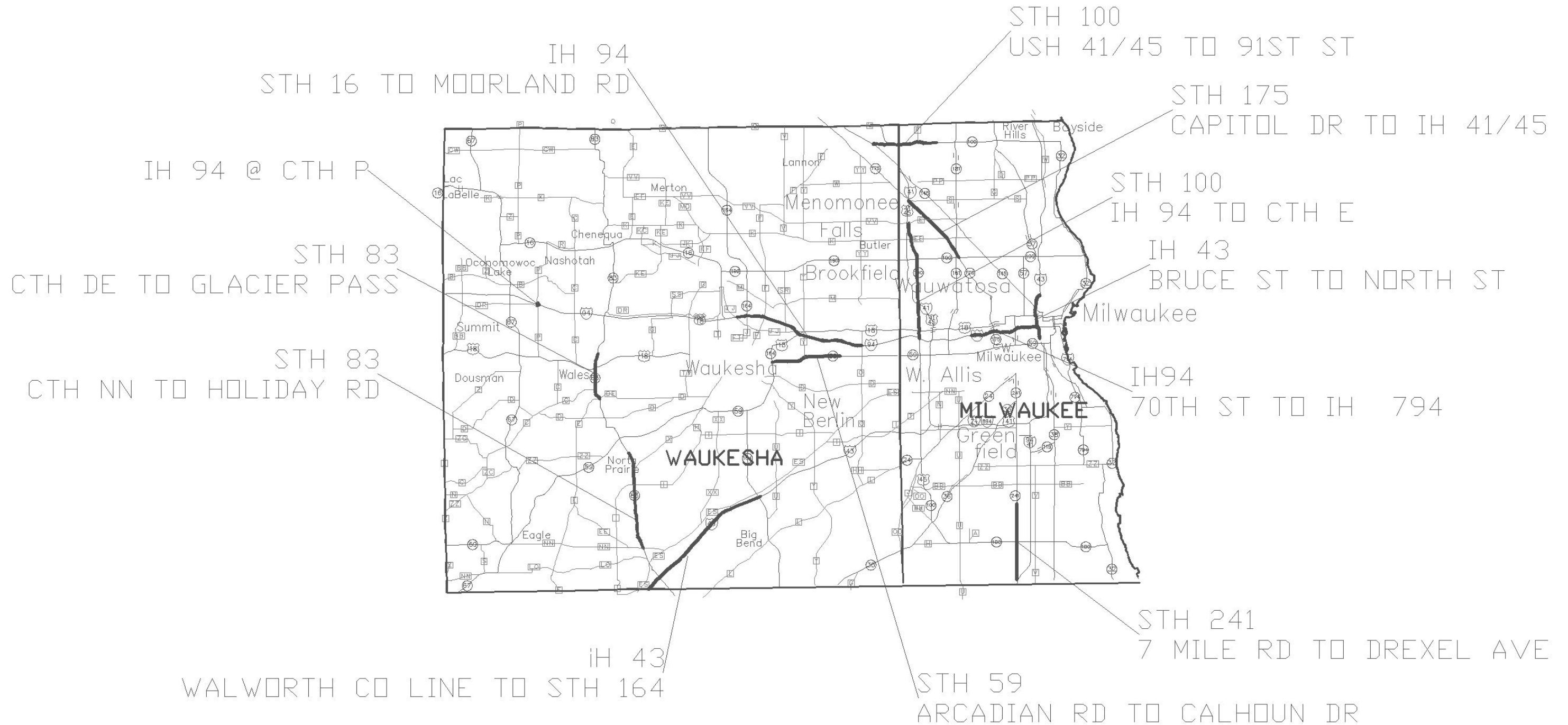
STH 60 @ CTH G

STH 57  
CTH W TO SHEBOYGAN CO LINE

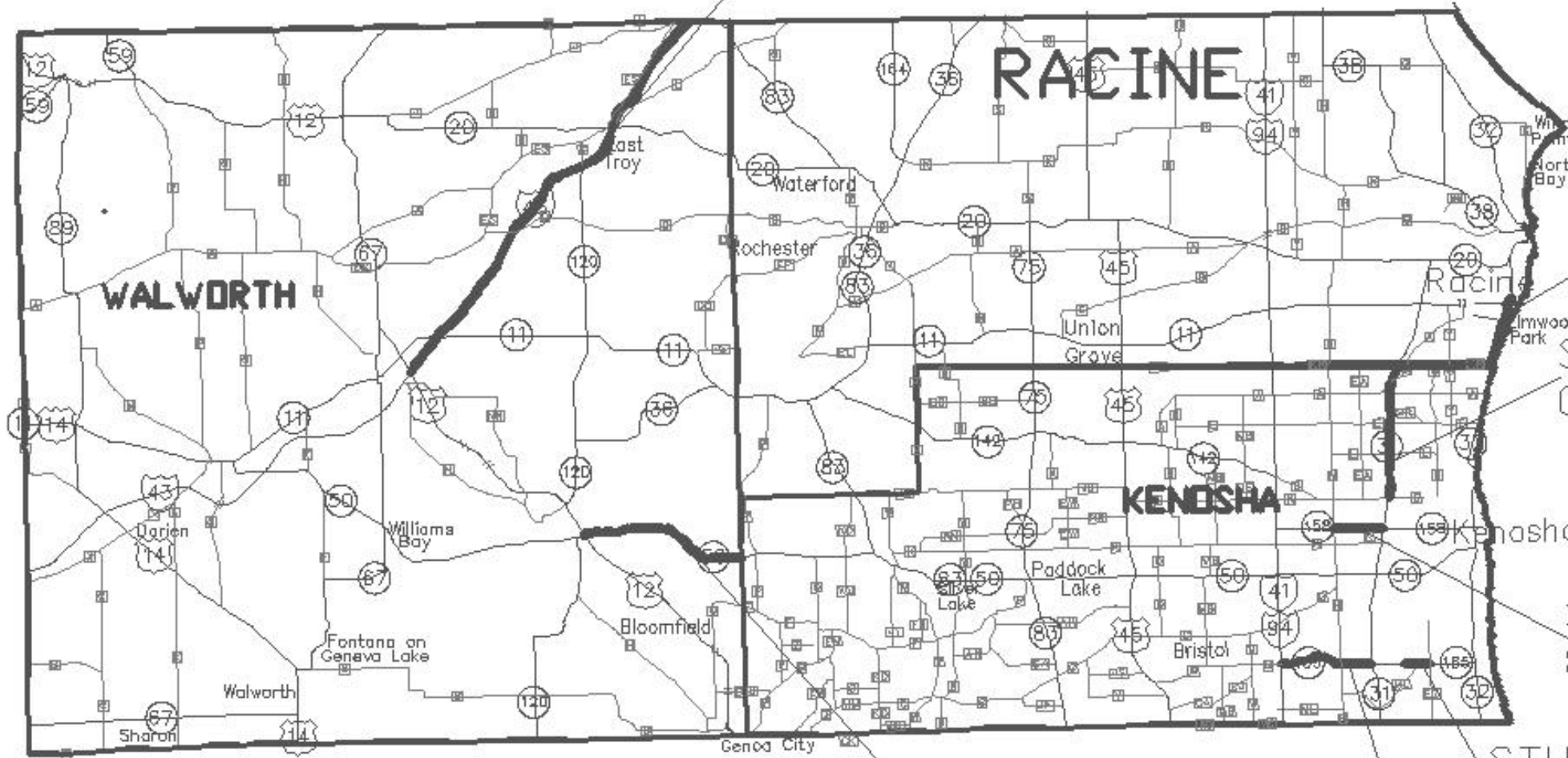
STH 33  
MILL ST TO MARTIN DR

STH 57  
CEDARBURG RD TO IH 43





IH 43  
USH 12 TO WAUKESHA CO LINE



STH 32  
KENOSHA CO LINE TO 25TH ST

STH 31  
CTH S TO KENOSHA CO LINE

STH 158  
88TH ST TO STH 31

STH 165  
COOPER DR TO STH 32

STH 165  
WEST FRONTAGE RD TO STH 31

STH 50  
GRAND GENEVA WAY TO KENOSHA CO LINE

Estimate Of Quantities

1000-77-23

Line	Item	Item Description	Unit	Total	Qty
0002	619.1000	Mobilization	EACH	1.000	1.000
0004	646.1020	Marking Line Epoxy 4-Inch	LF	2,428,142.000	2,428,142.000
0006	646.1041.S	Marking Replace Line Wet Reflective Epoxy 4-Inch	LF	9,122.000	9,122.000
0008	646.1555	Marking Line Grooved Contrast Permanent Tape 4-Inch	LF	25.000	25.000
0010	646.3020	Marking Line Epoxy 8-Inch	LF	68,976.000	68,976.000
0012	646.3041.S	Marking Replace Line Wet Reflective Epoxy 8-Inch	LF	11,448.000	11,448.000
0014	646.3555	Marking Line Grooved Contrast Permanent Tape 8-Inch	LF	25.000	25.000
0016	646.5020	Marking Arrow Epoxy	EACH	745.000	745.000
0018	646.5120	Marking Word Epoxy	EACH	384.000	384.000
0020	646.5420	Marking Aerial Enforcement Bar Epoxy	EACH	80.000	80.000
0022	646.6120	Marking Stop Line Epoxy 18-Inch	LF	12,581.000	12,581.000
0024	646.6320	Marking Dotted Extension Epoxy 18-Inch	LF	632.000	632.000
0026	646.7020	Marking Diagonal Epoxy 6-Inch	LF	184.000	184.000
0028	646.7120	Marking Diagonal Epoxy 12-Inch	LF	3,413.000	3,413.000
0030	646.7420	Marking Crosswalk Epoxy Transverse Line 6-Inch	LF	30,971.000	30,971.000
0032	646.7520	Marking Crosswalk Epoxy Block Style 24-Inch	LF	288.000	288.000
0034	SPV.0060	Special 01. Traffic Control	EACH	1.000	1.000

**WALWORTH AND WAUKESHA COUNTIES  
IH 43  
USH 12 TO STH 164**

ROUTE	NEAREST CROSSROAD	646.1020 LINE EPOXY 4-INCH EDGE LINE		646.5020 ARROW EPOXY RAMP			646.5120 WORD EPOXY TURN LANE	646.6120 STOP LINE EPOXY 18-INCH	
		YELLOW LF	WHITE LF	TYPE 2 EACH	TYPE 3 EACH	TYPE 4 EACH	ONLY EACH	MAINLINE L.F.	INTERSECTING ROADWAY L.F.
IH 43 NB	GENEVA ST OVERPASS TO STH 83 ON RAMP	126700	125500						
	USH 12 SB OFF RAMP	1126	2446						
	USH 12 SB ON RAMP	902	1272						
	USH 12 NB OFF RAMP	1125	1517						
	USH 12 NB ON RAMP	1412	2280						
	STH 11 OFF RAMP	1550	2332			3		24	
	STH 11 ON RAMP	1082	1806					31	
	REST AREA OFF RAMP		796						
	REST AREA ON RAMP		1922						
	BOWERS RD OFF RAMP	1162	1925			3		12	
	BOWERS RD ON RAMP	1601	2276						
	STH 120 OFF RAMP	1307	2035			3		39	
	STH 120 ON RAMP	1359	2273						
	STH 20 OFF RAMP	1764	2526			3		12	
STH 20 ON RAMP	1160	1989							
STH 83 OFF RAMP	1016	1448	2	1	1	2	12		
STH 83 ON RAMP	1252	2015							
STH 164 OFF RAMP	718	1432	1	1			26	80	
STH 164 ON RAMP	708	1382							
IH 43 SB	STH 83 OFF RAMP TO GENEVA ST OVERPASS	126700	125500						
	STH 164 OFF RAMP	778	998	1	1			58	70
	STH 164 ON RAMP	612	1243						
	STH 83 OFF RAMP	1205	1666	4	2		4	65	79
	STH 83 ON RAMP	966	1745						
	STH 20 OFF RAMP	1377	1915			3		12	
	STH 20 ON RAMP	1113	1882						
	STH 120 OFF RAMP	1356	2346			3		35	
	STH 120 ON RAMP	1862	2737						
	BOWERS RD OFF RAMP	1104	1488		1	3		12	
	BOWERS RD ON RAMP	2397	1645						
	REST AREA OFF RAMP		480		1	1			
	REST AREA ON RAMP		1600						
	STH 11 OFF RAMP	1769	2183	1	2	1		12	
STH 11 ON RAMP	1021	1812							
USH 12 NB OFF RAMP	1097	2118							
USH 12 NB ON RAMP	1299	852							
USH 12 SB OFF RAMP	1029	1269	2	2		1			
USH 12 SB ON RAMP	1197	2328							
TOTAL		292826	314979	11	11	24	7	350	229

**MILWAUKEE COUNTY  
IH 43  
BRUCE ST TO NORTH ST**

ROUTE	NEAREST CROSSROAD	646.1020 LINE EPOXY 4-INCH			646.3020 LINE EPOXY 8-INCH	646.5020 ARROW EPOXY		646.5120 WORD EPOXY		646.6120 STOP LINE EPOXY 18-INCH		646.7420 CROSSWALK TRANSVERSE EPOXY 6-INCH	
		EDGE LINE Yellow LF	LANE LINE WHITE LF	EDGE LINE White LF	CHANNELIZING WHITE LF	MAINLINE TYPE 1 EACH	RAMP TYPE 2 EACH	LEFT TURN ONLY EACH	RIGHT TURN ONLY EACH	MAINLINE L.F.	INTERSECTING ROADWAY L.F.	MAINLINE L.F.	INTERSECTING ROADWAY L.F.
IH 43 NB	BRUCE ST OVERPASS TO HIGHLAND AVE OVERPASS	7290		7200									
	RAMP TO IH 794	1955		2445									
	RAMP TO IH 94 NB	2813		2557									
	OFF RAMP TO MICHIGAN ST	908		1317	354	2	4	2	2	58	72	110	212
IH 43 SB	HIGHLAND AVE OVERPASS TO BRUCE ST	7289		7200									
	WISCONSIN AVE OFF RAMP	283		896									
	WISCONSIN AVE/USH 18 ON RAMP	1050	100	1653						24			
	IH 794 OFF RAMP	2806		2483									
TOTAL		24394	100	25751	354	2	4	2	2	82	72	110	212

DO NOT PAINT TAPE LANE LINES OR RAMP GORES

**MILWAUKEE COUNTY  
IH 94  
70TH ST TO MARQUETTE INTERCHANGE**

ROUTE	NEAREST CROSSROAD	646.1020 LINE EPOXY 4-INCH			646.3020 LINE EPOXY 8-INCH		646.5020 ARROW EPOXY					646.5120 WORD EPOXY		646.6120 STOP LINE EPOXY 18-INCH		646.7420 CROSSWALK TRANSVERSE EPOXY 6-INCH		COMMENTS
		EDGE LINE Yellow LF	LANE LINE WHITE LF	EDGE LINE White LF	ISLAND WHITE LF	CHANNELIZING WHITE LF	MAINLINE TYPE 1 EACH	TYPE 2 EACH	TYPE 3 EACH	TYPE 4 EACH	TYPE 5 EACH	RAMP ONLY EACH	MAINLINE L.F.	INTERSECTING ROADWAY L.F.	MAINLINE L.F.	INTERSECTING ROADWAY L.F.		
IH 94 EB	70TH ON RAMP TO MARQUETTE INTERCHANGE	20528		20400														
	MICHIGAN ST ON RAMP	777		1195														
	HAWLEY RD OFF RAMP	936		1163		226		4		1		2	29	94				START CHANNELIZING AT ARROWS
	HAWLEY RD ON RAMP	648		1364	139	118							21					
	PARKWAY DR OFF RAMP	869		272		110		2	2			1	23					
	PARKWAY DR ON RAMP	560		359		78							22					
	308B RAMP TO SB 175	219		1461														
	308C RAMP TO NB 175	1475		678														
	ON RAMP FROM 175 NB	565		1475									22					
	ON RAMP FROM 175 SB	2251		1183									24					
IH 94 WB	35TH ST OFF RAMP	460		799	116	172		2	1	1		1	24	43	120			START CHANNELIZING AT ARROWS.
	35TH ST ON RAMP	407		1231	195	53							24		142			
	ST PAUL AVE OFF RAMP	310	50	724	25	70		2	1	1			36	48		60		
	ST PAUL AVE ON RAMP	649	75	1441	246								36		108			
	EXIT 310A N 13TH ST			1785		164		2		1		2	35		104	48		
	EXIT 310B RAMP TO 43 NB	3025		3632														STOP 200' PAST WELLS ST OVERPASS
	EXIT RAMP TO 43 SB	1488		2381														
	MARQUETE INTERCHANGE TO 70TH ST	20528		30450														
	25TH ST OFF RAMP	951		1506		294		2		1		2	36	48				
	ST PAUL AVE ON RAMP	694		926	82								32					
PARK HILL AVE OFF RAMP	317		480	99		2	2		3			12						
PARK HILL AVE ON RAMP	549		876	300						2								
IH 94 WB	308C STH 175 OFF RAMP	518		1502														
	38B STH 175 ON RAMP	764		1478									24					
	GENERAL MITCHELL BLVD OFF RAMP	470		1142	38	354		4	1				41					
	PARKWAY DR ON RAMP	693		303									20					
	HAWLEY RD OFF RAMP	580		1256	217			2		1			24	53	143			
HAWLEY RD ON RAMP	813		1326	348								24						
68TH ST OFF RAMP	429		929		68							24						
TOTAL		62473	125	83717	1805	1707	2	22	7	9	2	8	533	286	617	108		

DO NOT PAINT TAPE LANE LINES OR RAMP GORES



**WAUKESHA COUNTY  
IH 94  
STH 16 TO MOORLAND RD**

ROUTE	NEAREST CROSSROAD	646.1020 LINE EPOXY 4-INCH		646.5020 ARROW EPOXY				646.5120 WORD EPOXY		646.6120 STOP LINE EPOXY 18-INCH		646.7420 CROSSWALK TRANSVERSE EPOXY 6-INCH
		EDGE LINE	EDGE LINE	LEFT TURN	MAINLINE	RIGHT TURN	MAINLINE	LEFT TURN	RIGHT TURN	MAINLINE	INTERSECTING ROADWAY	MAINLINE
		Yellow LF	White LF	TYPE 2 EACH	TYPE 3 EACH	TYPE 2 EACH	TYPE 5 EACH	EACH	EACH	L.F.	L.F.	L.F.
IH 94 EB	STH 16 OFF RAMP TO MOORLAND RD ON RAMP	36843	34843									
	PEWAUKEE RD OFF RAMP	873	1757	2	2	2		2	2	21	116	
	PEWAUKEE RD ON RAMP	668	1932									
	CTH F OFF RAMP	867	1587	2	2	2		2	1	40	76	
IH 94 WB	CTH F ON RAMP									24		
	CTH JJ/STH 164	2379	3480							12		
	STH 164 ON RAMP	1468	1860							22		
IH 94 WB	SWENSON DR/BARKER RD ON RAMP	1391	3900	3	1		2	2		84		
	CTH O/MOORLAND RD OFF RAMP	1321	2522	6		6		6	6	45	75	106
	CTH O/MOORLAND RD ON RAMP	4084	3159							48		
	MOORLAND RD OFF RAMP TO STH 16 ON RAMP	36883	34843									
	CTH O/MOORLAND RD OFF RAMP 301b	1099	2037									
	CTH O/MOORLAND RD OFF RAMP 301A	1045	1657									
	CTH O/MOORLAND RD ON RAMP	1261	2258				1			24	48	
	BRAKER RD OFF RAMP	560	1738	3	3	6		2	2	48	84	
IH 94 WB	USH 18 Off Ramp	3026	2627									
	USH 18 on Ramp	2456	2405									
	Bluemound Rd On Ramp	1155	2986							36		
	CTH F OFF RAMP	776	1590	2	2		4	2	4	60	72	
IH 94 WB	CTH F ON RAMP	978	2328									
	PEWAUKEE RD OFF RAMP	874	1611	2	2		4	2	2	55	75	
IH 94 WB	PEWAUKEE RD ON RAMP	685	2156									
	<b>TOTAL</b>	<b>100692</b>	<b>113276</b>	<b>20</b>	<b>12</b>	<b>16</b>	<b>11</b>	<b>18</b>	<b>17</b>	<b>519</b>	<b>546</b>	<b>106</b>

DO NOT PAINT TAPE LANE LINES OR RAMP GORES

**WAUKESHA COUNTY  
IH 94 @ CTH P ROUNDABOUT**

ROUTE	NEAREST CROSSROAD	646.1020 LINE EPOXY 4-INCH EDGE LINE		646.5020 ARROW EPOXY					646.5120 WORD EPOXY			646.6320 DOTTED EXTENSION EPOXY 18-INCH	
		YELLOW	WHITE	RAB APPROACH			RAB INNER CIRCLE			APPROACH	APPROACH		
		LF	LF	TYPE 1 EACH	TYPE 2 EACH	TYPE 2R EACH	TYPE 3 EACH	TYPR 3R EACH	TYPE 1 EACH	TYPE 2 EACH	TYPE 3 EACH	ONLY EACH	2' LINE 2' GAP L.F.
IH 94	CTH P EB OFF RAMP	888	2059		2	2	2			1	1		18
	CTH P EB ON RAMP	1122	3113										
	CTH P WB OFF RAMP	1027	2001		3	3	3		1	1	6	32	
	CTH P WB ON RAMP	887	2203										
SAWYER RD SB	PABST FARM BLVD TO ON RAMP	873	759	4	2				2		2	24	
	RAMP TO RAMP			3	3		3		1	1	4	28	
SAWYER RD NB	DELAFIELD RD TO ON RAMP			4	2				1		1	42	
	RAMP TO RAMP			3				3	1	1	2	18	
<b>TOTAL</b>		<b>4797</b>	<b>10135</b>	<b>14</b>	<b>12</b>	<b>5</b>	<b>8</b>	<b>3</b>	<b>6</b>	<b>3</b>	<b>6</b>	<b>15</b>	<b>162</b>

DO NOT PAINT TAPE LANE LINES OR GOES

**KENOSHA COUNTY**  
**STH 31**  
**CTH S TO KENOSHA/RACINE COUNTY LINE**

646.1020  
 LINE  
 EPOXY 4-INCH  
 EDGELINE

646.3020  
 Line  
 Epoxy 8-In  
 LEFT TURN  
 RIGHT TURN

646.5020  
 ARROW  
 EPOXY  
 LEFT TURN  
 RIGHT TURN

646.5120  
 WORD  
 EPOXY  
 LEFT TURN  
 RIGHT TURN

646.6120  
 STOP LINE  
 EPOXY 18-INCH  
 MAINLINE  
 INTERSECTING  
 ROADWAY

646.7420  
 CROSSWALK TRANSVERSE  
 EPOXY 6-INCH  
 MAINLINE

ROUTE	NEAREST CROSSROAD	YELLOW LF	WHITE LF	LANE LINE WHITE LF	LEFT TURN WHITE LF	RIGHT TURN WHITE LF	LEFT TURN TYPE 2 EACH	RIGHT TURN TYPE 2 EACH	LEFT TURN ONLY EACH	RIGHT TURN ONLY EACH	MAINLINE L.F.	INTERSECTING ROADWAY L.F.	CROSSWALK TRANSVERSE MAINLINE L.F.
STH 31 NB	CTH S TO RACINE CO LINE	25700	25700	12850									
	35TH ST				533		2		2				
	31ST ST				498		2		2		48	30	
	KWIK TRIP				352		2		1				
	2511/2500				97								
	22ND ST				95								
	2000				99								
	CTH L				97	165							
	1717				100								
	16TH PL				96								
	NEW LIFE LUTHERN CHURCH FIELD ENTRANCE				101								
	1071				96								
CTH E				470	174	2		1		75	24		
10TH ST				496		2		1					
CTH JR				84									
HAWTHORN HOLLOW				94									
812				91									
CTH A BERRYVILLE RD				98									
CTH A 6TH PL				77									
CROSSOVER				79									
CTH M/ 4TH PL				92	446	1	2	1	2				
STH 31 SB	CTH KR TO CTH S	25700	25700	12850									
	CTH M/ 4TH PL				112	178	1		1				
	516				97								
	CTH A/ 6TH PL				74						48	25	
	CTH A / 7TH PLACE				84								
	770				98								
	HAWTHORN HOLLOW				98								
	CTH JR				95								
	10TH ST				710			2		1			
	CTH E				313	212		1		1	78	24	
	1317				83								
	FIELD ENTRANCE				92								
	NEW LIFE LUTHERN CHURCH				96								
	16TH PL				100								
HEATING AND COOLING SOLUTIONS				99									
CTH L				167	99								
1855				87									
22ND ST				96			1		1				
2511				95									
KWIK TRIP				392	488								
31ST ST				158	126		2		2	69	36		
35TH ST				166	471	1	2	1	2				
CTH S				556	391	4	2	4	2	60	36	330	
TOTAL		51400	51400	25700	7701	2750	17	12	14	11	378	175	330

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RACINE COUNTY STH 32 25TH ST TO KENOSHA COUNTY LINE		646.1020 LINE EPOXY 4-INCH			646.1041.S REPLACE LINE WET REFLECTIVE EPOXY 4-IN	646.3041.S REPLACE LINE WET REFLECTIVE EPOXY 8-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 TRANSVERSE EPOXY 6-INCH	
ROUTE	NEAREST CROSSROAD	CENTERLINE YELLOW LF	EDGELINE YELLOW LF	EDGELINE WHITE LF	LANE LINE WHITE LF	LEFT TURN WHITE LF	MAINLINE WHITE LF	RIGHT LANE WHITE LF	LEFT TURN TYPE 2 EACH	RIGHT TURN TYPE 2 EACH	LEFT TURN ONLY EACH	RIGHT TURN ONLY EACH	MAINLINE L.F.	INTERSECTING ROADWAY L.F.	DIAGONAL MEDIAN L.F.	MAINLINE L.F.	INTERSECTING ROADWAY L.F.
STH 32 NB	KENOSHA CO LINE TO 25TH ST CTH KR	317	11142	12720	1360								45	33			
	5209					53											
	5037					49											
	4941					47											
	4805					51											
	EDGEWATER DR MACEMON RD					53		106		1		1					
	SHERIDAN RD CHICORY RD					53		53		1		1					
CROSSOVER LARSON ST					56		53	1	1	1	1						
STH 11 25TH ST					554							35					
					50		53	106		1		1					
					713			106	4	1	4	1	45		166	129	229
STH 32 SB	25TH St TO KENOSHA CO LINE STH 11	320	11613	11824	2746			370		1		1	24	22	166		
	LARSON ST CROSSOVER					276				1		1					
	CHICORY RD SHERIDAN RD					318	53	251	2		2		32	69			
	MACEMON RD EDGEWATER DR					101			1		1						
	4805					99			1		1						
	4941					108			1		1						
	5037					51											
5209					52												
CTH KR					350		289		2		2	48	61				
	TOTAL	637	22755	24544	4106	3140	106	1334	10	9	10	9	229	185	332	129	229

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**OZAUKEE COUNTY  
STH 33  
MARTIN DR TO MILL ST**

ROUTE	NEAREST CROSSROAD	646.1020 LINE EPOXY 4-INCH			646.1041.S REPLACE LINE WET REFLECTIVE EPOXY 4-IN	646.3041.S REPLACE LINE WET REFLECTIVE EPOXY 8-INCH			646.5020 ARROW EPOXY						646.5120 WORD EPOXY		646.6320 DOTTED EXTENSION EPOXY 18-INCH		646.6120 STOP LINE EPOXY 18-INCH		646.7120 DIAGONAL EPOXY 12-INCH	646.7420 CROSSWALK TRANSVERSE EPOXY 6-INCH			
		CENTERLINE	EDGELINE	EDGELINE	LANE LINE	LEFT TURN	RIGHT TURN	RAB	TURN LANE	TWLTL	MAINLINE						LEFT TURN ONLY	RIGHT TURN ONLY	MAINLINE	INTERCHANGING ROADWAY	MAINLINE	INTERSECTING ROADWAY	DIAGONAL YELLOW L.F.	MAINLINE	INTERSECTING ROADWAY
		YELLOW LF	YELLOW LF	WHITE LF	WHITE LF	WHITE LF	WHITE LF	WHITE LF	WHITE LF	TYPE 2 EACH	TYPE 2 EACH	TYPE 1 EACH	TYPE 2 EACH	TYPE 3 EACH	TYPE 3R EACH	EACH	EACH	LF	LF	L.F.	L.F.	L.F.	L.F.	L.F.	
STH 33 EB	Mill St to Martin Dr MICHALENO'S PIZZERIA		9182	9600	2508	117			1						1										
	ULAO ST CTH W					184			1						1				12	47	35		172	144	
	FOSTER DR i-43 SB ON RAMP					158			1						1				44	40	30		156	147	
	I-43 NB ON RAMP WALMART MARKET ST					251			1						1	1			34		20		96		
	NORTHWOODS RD GREEN BAY RD					158		128	2		1	1	3	1			20	18							
	JACKSON RD SWEETWATER BLVD					120		141			1		2	1			20	14				12			
STH 33 WB	Martin Dr to Mill St		9125	9867	2508																				
	Milwaukee Clinic Optical SWEETWATER BLVD JACKSON RD					186														25	16				
	GREEN BAY RD SCHMIT BRO AUTO					137							1							13			132	106	
	NORTHWOODS RD MARKET ST					106																			
	WALMART I-43 NB ON RAMP					145																			
	i-43 SB ON RAMP FOSTER DR					150																			
	MILL ST TO FORSTER DR CTH W	3746				330	839													50				156	
	ULAO ST MILL ST					245	215		1						1	1				36	74	29		194	
TOTAL	3746	18307	19467	5016	3902	2387	579	14	3	6	3	11	4	8	6	96	68	435	215	223	1341	397			

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WALWORTH COUNTY  
 STH 50  
 GRAND GENEVA WAY TO KENOSHA COUNTY LINE

646.1020  
 LINE  
 EPOXY 4-INCH

646.3020  
 LINE  
 EPOXY 8-INCH

ROUTE	NEAREST CROSSROAD	EDGELINE	EDGELINE	LANE LINE	LEFT TURN	RIGHT TURN
		YELLOW LF	WHITE LF	WHITE LF	WHITE LF	WHITE LF
STH 50 EB	GRAND GENEVA WAY to KENOSHA COUNTY LINE 6942	26441	27985	7128	191	
	CROSSOVER				179	
	LAKE GENEVA ASSISTED LIVING 6612				167	
	DEERPATH RD 6550				121	
	MOELTER CT 6265				235	
	CIRCLE DR 6265				176	216
	BACK RD CROSSOVER				177	
	SOUTH RD CRANBERRY RD				237	
	5851				172	
	5751				252	
	5632				194	
	MARIONDALE RD 5448				245	221
	WELL DRILLING EASTSIDE RD				251	
	THE FARMSTEAD				192	
STH 50 WB	KENOSHA COUNTY LINE TO GRAND GENEVA WAY THE FARMSTEAD	26757	28235	7155	179	
	EASTSIDE RD WELL DRILLING				251	
	5448 MARIONDALE RD				171	
	5632				175	
	5751				256	
	5851 CRANBERRY RD				91	
	SOUTH RD CROSSOVER				149	
	BACK RD 6265				188	233
	CIRCLE DR MOELTER CT				251	201
	6550 DEERPATH RD				254	
	6612 LAKE GENEVA ASSISTED LIVING				188	
	CROSSOVER 6942				248	224
	GRAND GENEVA WAY				171	
					245	
TOTAL	53198	56220	14283	173	196	

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OZAUKEE COUNTY  
 STH 57  
 CTH W TO SHEBOYGAN CO LINE

ROUTE	NEAREST CROSSROAD	646.1020 LINE EPOXY 4-INCH		646.3020 LINE EPOXY 8-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 TRANSVERSE EPOXY 6-INCH		COMMENTS	
		EDGE LINE YELLOW LF	EDGE LINE WHITE LF	LEFT TURN WHITE LF	RIGHT TURN WHITE LF	LEFT TURN TYPE 2 EACH	RIGHT TURN TYPE 2 EACH	LEFT TURN ONLY EACH	RIGHT TURN ONLY EACH	MAINLINE L.F.	INTERSECTING ROADWAY L.F.	DIAGONAL MEDIAN L.F.	MAINLINE L.F.	INTERSECTING ROADWAY L.F.		
STH 57 NB	CTH W TO SHEBOYGAN CO LINE 4039	45820	45820	127												
	WILLOW RD 4249			214	306			1	1							
	4385			122												
	E HAWTHORNE DR			211	211	1	1	1	1							
	BEECH LN 4785			225		1		1								
	MEADOWLARK RD 4964			264	264	1	1	1	1							
	5054			99												
	5133			121												
	5246			103												
	5246			109												
	CTH A MARTIN DR			211		2	2	1	1	34	27		94	36	DO NOT PAINT CHANNELIZING LINES	
	AIRPORT RD 5630			158	211	1		1	1							
	133			133												
	WILLOW VALLEY RD CROSSOVER			264	211	1		1								
	133			134												
	FIELD ENTRANCE 5996			127												
	CTH D FIELD ENTRANCE			211	158	1	1	1	1							
	6378			97												
	HICKORY GROVE RD			140												
	211			211		1		1								
6628			120													
6728			120													
JAY RD			211	211	1	1	1	1								
6960			136													
7081			137													
7168			106													
CTH K			264	370	1	1	1	1								
STH 57 SB	SHEBOYGAN CO LINE TO CTH W 7168	45820	45820	118												
	7081			135												
	6960			131												
	JAY RD			264	211	1	1	1	1							
	6728			133												
	6628			116												
	HICKORY GROVE RD			264	211	1	1	1	1							
	6378			134												
	FIELD ENTRANCE			104												
	CTH D 5996			264	211	1	1	1	1							
	117			138												
	FIELD ENTRANCE CROSSOVER			131												
	WILLOW VALLEY RD 5630			264	211	1		1								
	134			258												
	AIRPORT RD MARTIN DR			264	370	1		1								
	CTH A 5246			124		2	2	1	1	34	26		130			
	5133			128												
	5054			137												
	4964			154												
	MEADOWLARK RD			264	211	1	1	1	1							
4785			137													
BEECH LA			211	158			1	1								
E HAWTHORNE DR 4385			264	264	1	1	1	1								
127			142													
4249			264													
WILLOW RD			264		1		1									
4039			128													
CTH W			106	264			1	1								
TOTAL		91640	91640	9905	4264	21	18	19	16	68	53	0	224	36		

DO NOT PAINT TAPE LANE LINES OR CHANNELIZING LINES

OZAUKEE COUNTY STH 57 CEDARBURG RD/STH 167 TO IH 43		646.1020 Line Epoxy 4-In			646.3020 Line Epoxy 8-In		646.5020 ARROW EPOXY				646.5120 WORD EPOXY			646.6120 STOP LINE EPOXY 18-INCH		646.7120 DIAGONAL EPOXY 12-INCH	646.7420 CROSSWALK TRANSVERSE EPOXY 6-INCH	
ROUTE	NEAREST CROSSROAD	EDGE LINE LEFT YELLOW LF	EDGE LINE RIGHT WHITE LF	LANE LINE WHITE LF	LEFT TURN WHITE LF	RIGHT TURN WHITE LF	MAINLINE TYPE 1 EACH	LEFT TURN TYPE 2 EACH	MAINLINE TYPE 3 EACH	RIGHT TURN TYPE 2 EACH	LEFT TURN ONLY EACH	MAINLINE ONLY EACH	RIGHT TURN ONLY EACH	MAINLINE WHITE L.F.	INTERSECTING ROADWAY WHITE L.F.	DIAGONAL YELLOW L.F.	MAINLINE WHITE L.F.	INTERSECTING ROADWAY WHITE L.F.
3 STH 57 NB	CEDARBURG RD/STH 167 to IH 43 PARKVIEW DR EAST GATE DR	16368	16368	3894	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	3	2	2	1	1	2	37		40		118
3 STH 57 SB	IH 43 to Cedarburg Rd/STH 167 I-43 NB ON RAMP IH-43 SB ON RAMP	16368	16368	4013	562	261		2			1			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				67	172 284		1		2	1		1	48	33		178	151
	PARKVIEW DR CEDARBURG RD/STH 167				320	159 444				2			2		36	55	242	1324
TOTAL		32736	32736	7907	6464	4888	5	10	2	14	7	1	12	472	285	95	1717	1324

PROJECT NO: 1000-77-23      HWY: STH 57      COUNTY: OZAUKEE      MISCELLANEOUS QUANTITIES      SHEET:      E

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WAUKESHA COUNTY STH 59 ARCADIAN AVE TO BROOKFIELD RD		646.1020 LINE EPOXY 4-INCH		646.3020 LINE EPOXY 8-INCH		646.5020 ARROW EPOXY		646.5120 WORD EPOXY		646.6120 STOP LINE EPOXY 18-INCH		646.7420 CROSSWALK TRANSVERSE EPOXY 6-INCH		
ROUTE	NEAREST CROSSROAD	Edgeline		LANE LINE WHITE LF	LEFT TURN WHITE LF	RIGHT TURN WHITE LF	LEFT TURN TYPE 2 EACH	RIGHT TURN TYPE 2 EACH	LEFT TURN ONLY EACH	RIGHT TURN ONLY EACH	MAINLINE L.F.	INTERSECTING ROADWAY L.F.	MAINLINE L.F.	INTERSECTING ROADWAY L.F.
		YELLOW LF	WHITE LF											
STH 59 EB	Arcadian Ave/USH 18 to Brookfield Rd Arcadian Ave/USH 18	15685	15685	3700	995	118					36	72	100	
	Whitehall St				108	106	1	1	1	1				
	Sultan DI St				65									
	Cotton Ct Crossover				60 93									
	Springdale Rd Springdale Rd				104	93								
	Craftsman Dr Pleasant Hill Dr				55 106									
	House 21011 Downie Rd				109 184	99								68
	Johnson Rd Frentil Contractors				566 69	58	4		4		68	51		
	Prosthodontic Solutions Avondale Dr				105 123									
	Baythorn Way House 19331				76 68									
	House 19001 Norwood Dr/Brookfield Rd				82 238	316					62	31	116	
STH 59 WB	Brookfield Rd to Arcadian Ave/USH 18 Brookfield Rd/Norwood Dr	15185	15185	3950	288	282		2		2	39	27	116	117
	House 19001 House 19331				105 69									
	Baythorn Way Pfeil Ln Avondale Dr				76 71 50	102		1 1		1				
	Prosthodontic Solutions Frentil Contractors				123 96									
	Johnson Rd Downie Rd				1959 81	260	3	2	3	2	44	36	234 72	188
	House 21011 Pleasant Hill Dr				74 53			1		1				
	Craftsman Dr Springdale Rd				177 97	52								
	Springdale Rd Crossover				260 71									
	Cotton Ct Sultan DI St				126 67	22								
	Whitehall St				69		1		1					
	SUBTOTAL		30870	30870	7650	7118	1508	9	8	9	7	249	217	706

WAUKESHA COUNTY STH 59 CALHOUN RD SPECIAL MARKINGS ONLY		646.5020 ARROW EPOXY		646.5120 WORD EPOXY		646.6120 STOP LINE EPOXY 18-INCH		646.7420 CROSSWALK TRANSVERSE EPOXY 6-INCH	
ROUTE	NEAREST CROSSROAD	MAINLINE TYPE 2 EACH	INTERSECTING ROADWAY EACH	MAINLINE ONLY EACH	INTERSECTING ROADWAY EACH	MAINLINE L.F.	INTERSECTING ROADWAY L.F.	MAINLINE L.F.	INTERSECTING ROADWAY L.F.
Subtotal		0	8	0	4	72	112	360	438



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WAUKESHA COUNTY STH 83 CTH NN TO HOLIDAY RD/KETTLE RIDGE CT		646.1020 LINE EPOXY 4-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 TRANSVERSE EPOXY 6-INCH		COMMENTS
ROUTE	NEAREST CROSSROAD	EDGELINE YELLOW LF	WHITE LF	LANE LINE WHITE LF	LEFT TURN		INNER CIRCLE		RIGHT TURN		LEFT TURN ONLY	RIGHT TURN ONLY	MAINLINE WHITE L.F.	INTERSECTING ROADWAY L.F.	DIAGONAL WHITE L.F.	MAINLINE L.F.	INTERSECTING ROADWAY L.F.	
STH 83 NB	CTH NN to Holiday Rd/kettle Ridge Ct CULVERS	26859	26972													120		
	BLACK BEAR BLVD FROG ALLEY RD								2 3			1 3	54	26	77 84	230	150	
	CTH I FIELDS CROSSING DR/SAYLESVILLE RD			60		2 2	2 2	2 2				2 2						
	MCFARLANE RD HOLIDAY RD/KETTLE RIDGE CT								3 2			3 2						
	KETTLE RIDGE CT TO CTH NN MCFARLANE RD	26493	26762									3						
STH 83 SB	CTH I FROG ALLEY RD					2				2 3		3			53			
	BLACK BEAR BLVD PICK N SAVE	-								2		1	58	25	92	249	138	
	CTH NN					1 2					1 1		56			196		
	<b>SUBTOTAL</b>	<b>53352</b>	<b>53734</b>	<b>60</b>		<b>8</b>	<b>6</b>	<b>2</b>	<b>2</b>	<b>14</b>	<b>7</b>	<b>7</b>	<b>15</b>	<b>168</b>	<b>51</b>	<b>306</b>	<b>795</b>	<b>288</b>

\*\*DO NOT PAINT TAPE LANE LINES OR GORES

WAUKESHA COUNTY STH 83 CTH DE/E TO GLACIER PASS		646.1020 LINE EPOXY 4-INCH		TURN LANE TYPE 2 EACH	646.5020 ARROW EPOXY					TURN LANE ONLY EACH	646.5120 WORD EPOXY	646.6329 DOTTED EXTENSION EPOXY 18-INCH	646.7020 DIAGONAL EPOXY 6-INCH	646.7120 DIAGONAL EPOXY 12-INCH	COMMENTS
ROUTE	NEAREST CROSSROAD	EDGELINE YELLOW LF	WHITE LF		RAB MAINLINE/INNERCIRCLE			RAB LEG INTERCHANGING ROADWAY			INTERCHANGING ROADWAY ONLY EACH	MAINLINE WHITE L.F.	DIAGONAL WHITE L.F.	DIAGONAL MEDIAN L.F.	
STH 83 NB	CTH DE/E TO GLACIER PASS BLACKWOOD DR	11200	10296	2											
	US 18 HIGH MEADOW CIR				2	1	3	2	2	2			15 42		
	BOYS SCHOOL RD GLACIER PASS												45	417	
STH 83 SB	GLACIER PASS TO CTH DE/E GLACIER PASS	11200	10284											40	
	BOYS SCHOOL RD HIGH MEADOW CIR			2 2									42		
	NEWPORT DR US 18			2	2		5	3		2	2				
	ELDER ADVISOR LAW CTH E/SUNSET DRIVE			2		3		3				36			DO NOT RETRACE FIRST SET OF ARROWS AND ONLYS
<b>SUBTOTAL</b>	<b>22400</b>	<b>20580</b>	<b>10</b>	<b>4</b>	<b>4</b>	<b>8</b>	<b>8</b>	<b>2</b>	<b>4</b>	<b>2</b>	<b>6</b>	<b>1</b>	<b>36</b>	<b>184</b>	<b>417</b>

DO NOT PAINT TAPE LANE LINE OR CHANNELIZING LINES

MILWAUKEE COUNTY STH 100 IH 94 TO SILVER SPRING/CTH E		646.1020 LINE EPOXY 4-INCH EDGELINE		646.5020 ARROW EPOXY		646.5120 WORD EPOXY		646.6120 STOP LINE EPOXY 18-INCH		646.7120 DIAGONAL EPOXY 12-INCH	646.7420 CROSSWALK TRANSVERSE EPOXY 6-INCH	
ROUTE	NEAREST CROSSROAD	YELLOW LF	WHITE LF	LEFT TURN TYPE 2 EACH	RIGHT TURN TYPE 2 EACH	LEFT TURN ONLY EACH	RIGHT TURN ONLY EACH	MAINLINE L.F.	INTERSECTING ROADWAY L.F.	DIAGONAL MEDIAN L.F.	MAINLINE L.F.	INTERSECTING ROADWAY L.F.
STH 100 NB	IH 94 to Silver Spring /CTH E US 18/BLUEMOUND ROAD	31777	31777	4	3	4	3	84	133		292	266
	WISCONSIN AVE			2	2	2	2	68	24		268	124
	POTTER RD/RESEARCH RD			2	2	2	2	63	28		277	187
	WATERTOWN PLANK RD			4	2	4	2	60	74		282	232
	WALNUT RD							48			174	
	NORTH AVE			4	2	2	2	60	57		198	224
	MAYFAIR ENTRANCE				2		1	60	43		220	186
	MAYFAIR ENTRANCE CENTER ST							48	24			
BURLEIGH ST			6		4		48	50		222	178	
AUER AVE										156		
CAPITOL DR/STH 190				4	2	4	2	60	60	56	218	209
HAMPTON AVE				2		2		36	36		176	156
SILVER SPRING DR								42	48		194	
STH 100 SB	Silver SPRING DR/CTH E to IH 94 SILVER SPRING DR	31777	31777					48	48			235
	HAMPTON AVE			2		2		38	38		182	180
	CONGRESS ST										185	92
	CAPITOL DR/STH 190			3	2	3	2	48	72		168	212
	BURLEIGH ST			4		2		60	60		230	220
	CENTER ST							36	26		202	108
	MAYFAIR ENTRANCE				2		1	48	36		226	134
	NORTH AVE			4	2	2	2	91	60		252	220
WATERTOWN PLANK RD			4	1	4	1	66	30		276	248	
POTTER RD			4		4		73	27		264	135	
WISCONSIN AVE			4		4		66	12		238	71	
US 18/BLUEMOUND ROAD			4	2	4	2	63	51		204	258	
IH 94				1		1	60		47	44		
TOTAL		63554	63554	57	25	49	23	1432	1064	103	5358	4003

DO NOT PAINT TAPE LANE LINES OR CHANNELIZING LINES

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**MILWAUKEE AND WAUKESHA COUNTIES  
STH 100  
USH 41/45 TO 91ST ST**

ROUTE	NEAREST CROSSROAD	646.1020 LINE EPOXY 4-INCH			646.5020 ARROW EPOXY	646.5120 WORD EPOXY	646.6120 STOP LINE EPOXY 18-INCH		646.7420 CROSSWALK TRANSVERSE EPOXY 6-INCH	
		EGDGELINE YELLOW LF	White LF	White LF	LEFT TURN TYPE 2 EACH	LEFT TURN ONLY EACH	MAINLINE L.F.	INTERSECTING ROADWAY L.F.	MAINLINE L.F.	INTERSECTING ROADWAY L.F.
STH 100 NB	USH 41/45 GORE TO 91ST ST USH 41/45 OFF RAMP GORE	7285	7306	3625						
	FOUNTAIN BLVD/FOUNTAIN BLVD LILLY RD						47	19		
	CROSSOVER 124TH ST/STH 145				2	1	73	59		
	GREAT LAKES COLA ARGON INDUSTRIES									
	107TH ST CROSSOVER						69	95	264	226
	96TH ST 95TH ST						47		202	
	CROSSOVER 91ST ST				2	1	58	41	221	160
STH 100 SB	91ST ST CROSSOVER	7285	7306	3625			59	40	226	168
	95TH ST AMOCO								202	83
	107TH ST LAUER ST						41	41	214	186
	11621/11711 12003/11921									
	124TH ST/BOUNDARY RD WESTBROOK CROSSING				4	4	68		49	
	STH 145/OLD ORCHARD RD EXECUTIVE PKWY						66	41		
	ESQUIRE RD THE BREWER CO									
	LILLY RD 14167									
	FOUNTAIN BLVD/Stanley Dr USH 41 Ramp									
TOTAL		14570	14612	7250	8	6	528	336	1378	823

DO NOT PAINT TAPE LANE LINES OR CHANNELIZING LINES

**KENOSHA COUNTY  
STH 165  
52ND AVE to EZ SPECIAL MARKINGS**

ROUTE	MARKING LOCATION	646.5020 ARROW EPOXY ROUNDABOUT						646.5120 WORD EPOXY		646.6320 DOTTED EXTENSION EPOXY 18-INCH		646.7120 DIAGONAL EPOXY 12-INCH	646.7520 CROSSWALK EPOXY BLOCK STYLE 24-IN
		TYPE 1	TYPE 2	TYPE 2R	TYPE 3	TYPE 3R	TYPE 6	LEFT TURN	RIGHT TURN	MAINLINE	INTERSECTING	MEDIAN	MAINLINE
		EACH	EACH	EACH	EACH	EACH	EACH	ONLY EACH	ONLY EACH	L.F.	L.F.	YELLOW L.F.	L.F.
STH 165 EB	COOPER RD		1					1				445	
	47TH Ave		1					1				225	
	CTH ML APPROACH				2	2				20	28		72
	CTH ML INNER CIRCLE	1	2										
STH 165 WB	CTH EZ APPROACH			3						22	26		72
	CTH EZ INNER CIRCLE	1	1		2								
	CTH EZ APPROACH				2	2				22	24		72
	CTH EZ INNER CIRCLE	2	2										
STH 165 WB	CTH ML APPROACH				3	3				22	28		72
	CTH ML INNER CIRCLE	1			2								
	47th AVE		2										
	COOPER RD		2										
	<b>TOTAL</b>	<b>5</b>	<b>11</b>	<b>3</b>	<b>11</b>	<b>7</b>	<b>3</b>	<b>2</b>	<b>4</b>	<b>86</b>	<b>106</b>	<b>670</b>	<b>288</b>

**KENOSHA COUNTY  
STH 165  
WEST FRONTAGE RD TO STH 31**

ROUTE	MARKING LOCATION	646.1020 LINE EPOXY 4-INCH EDGE LINE		646.5020 ARROW EPOXY		646.5120 WORD EPOXY		646.6120 STOP LINE EPOXY 18-INCH		646.7420 CROSSWALK TRANSVERSE EPOXY 6-INCH	
		YELLOW	WHITE	LEFT TURN	RIGHT TURN	LEFT TURN	RIGHT TURN	MAINLINE	INTERSECTING	MAINLINE	INTERSECTING
		LF	LF	TYPE 2 EACH	TYPE 2 EACH	ONLY EACH	ONLY EACH	L.F.	L.F.	L.F.	L.F.
STH 165 EB	WEST FRONTAGE RD TO STH 31	14000	14151								
	I-94 NB OFF RAMP							24			
	I-94 NB ON RAMP			4		2		44	63		
	REST AREA				2		1				
	EAST FRONTAGE RD			2	1	1	1	51	40		
	CORPORATE DR						1				
STH 165 WB	TERWALL TERR.										
	CTH H/ 88TH ST			3	2	2	1	46	36		
	80TH AVE			2		2					
	STH 31			6	1	4	1	48	36		
	STH 31 TO WEST FRONTAGE RD	14000	13887								
	STH 31							34	52		
	72ND AVE								39		
	80TH AVE			2		1					
STH 165 WB	82ND AVE								37		
	CTH H/ 88TH ST			2	2	2	1	36	32		
	EAST FRONTAGE RD			2	2	1	1	45	40	170	190
	I-94 NB ON RAMP							34			
	I-94 SB ON RAMP										
I-94 NB OFF RAMP				2		1					
WEST FRONTAGE RD			2	2	2	2	24				
	<b>TOTAL</b>	<b>28000</b>	<b>28038</b>	<b>27</b>	<b>16</b>	<b>18</b>	<b>10</b>	<b>386</b>	<b>448</b>	<b>170</b>	<b>190</b>

DO NOT PAINT TAPE LANE LINES OR CHANNELIZING LINES

**MILWAUKEE COUNTY  
STH 175  
CAPITOL DR TO IH 41/45**

ROUTE	NEAREST CROSSROAD	646.1020 LINE EPOXY 4-INCH EDGELINE		646.5020 ARROW EPOXY		646.5120 WORD EPOXY	646.6120 STOP LINE EPOXY 18-INCH		646.7120 DIAGONAL EPOXY 12-INCH	646.7420 CROSSWALK TRANSVERSE EPOXY 6-INCH	
		YELLOW LF	WHITE LF	LEFT TURN TYPE 2 EACH	MAINLINE TYPE 5 EACH	LEFT TURN ONLY EACH	MAINLINE L.F.	INTERSECTING ROADWAY L.F.	DIAGONAL MEDIAN L.F.	MAINLINE L.F.	INTERSECTING ROADWAY L.F.
STH 175 NB	Capitol Drive to IH 41/USH 45 STH 190/Capitol Drive	19095	19434				40	44		253	255
	McDonalds Perkins Pl										
	Fiebrantz Ave Huntington Bank									194	
	STH 181 CONGRESS ST			1			100		175	264	
	HAMPTON AVE GRANTOSA DR.			2		1	48	37		229	152
	91ST ST El greco			4		2	49	71		242	269
				2		1	44	43		195	191
				2		1	56	74		264	284
	Airport PARK & RIDE										
	Silver Spring Dr EB/CTH E Silver Spring Dr WB/ CTH E			2		1				140	112
CARMEN AVE BOBOLINK AVE						38	24		85	133	
107TH ST US 45 GORE			2	2	1	42	30		91	87	
STH 175 SB	IH 41/USH 45 TO CAPITOL DR USH 45 GORE	18995	19434								
	107TH ST/FLORIST AVE MENOMINEE RIVER PKY			2		1	45	21		181	105
	DAVITA WEST APPLETON DIALYSIS CARMEN AVE			2		1	44			180	
	SILVERSPRING DR/CTH E CTH E			2		1		26		120	64
	91ST ST APPLETON PL			1			70	74		283	282
	VILLARD AVE GRANTOSA AVE			2		1	44	42		188	197
	HAMPTON AVE CONGRESS ST			2		1	49	47		298	227
	STH 181 Perkins Pl			2		1	50	48		225	175
				1			100		116	351	
STH 190/Capitol Drive						51	50		260	195	
<b>TOTAL</b>		<b>38090</b>	<b>38868</b>	<b>27</b>	<b>2</b>	<b>12</b>	<b>870</b>	<b>631</b>	<b>291</b>	<b>4043</b>	<b>2796</b>

DO NOT PAINT TAPE LANE LINES OR CHANNELIZING LINES

**KENOSHA AND RACINE COUNTIES**  
**IH 241**  
**7 Mile Rd to DREXEL DR**

ROUTE	NEAREST CROSSROAD	646.1020 LINE Epoxy 4-INCH			646.3000 LINE EPOXY 8-IN		646.5020 ARROW EPOXY			646.5120 WORD EPOXY		646.6120 STOP LINE EPOXY 18-INCH		646.7120 DIAGONAL EPOXY 12-INCH	646.7420 CROSSWALK TRANSVERSE EPOXY 6-INCH		
		TWLTL YELLOW LF	EDGE LINE YELLOW LF	WHITE LF	LANE LINE WHITE LF	LEFT TURN WHITE LF	RIGHT TURN WHITE LF	LEFT TURN TYPE 2 EACH	TWLTL TYPE 2 EACH	RIGHT TURN TYPE 2 EACH	LEFT TURN ONLY EACH	RIGHT TURN ONLY EACH	MAINLINE L.F.	INTERSECTING ROADWAY L.F.	DIAGONAL MEDIAN L.F.	MAINLINE L.F.	INTERSECTING ROADWAY L.F.
STH 241 NB	7 MILE RD TO DREXEL DR 7 MILE RD TO COUNTY LINE RD	13200	32208	32208	8052			18						730			
	COUNTY LINE RD ELM RD					116 363		2		1							
	XPO LOGISTICS JOHNS WAY					110 108		1									
	OAKWOOD RD WHEATON WAY					163 256	199 184		2		2		48	31			114
	STAYBRIDGE SUITES RYAN RD/STH 100					221 220		4		4	2		60			205	
	CENTRAL AVE SUNRISE MOTEL					100 196											
	BRIAR WOOD DR HILLTOP LN					156 95											
	SOUTHLAND DR GRAYS LN					96 107											
	FRANKLIN TERRANCE PUETZ RD					95 191							45	49			
	SPOT FREE CLEANING HONADEL BLD					94 100											
	COLONIAL WOODS DR/FOREST HILL AVE VILLA DR					164	191	2		2		2					
	DREXEL AVE																
	STH 241 SB	DREXEL AVE TO 7 MILE RD VILLA DR		32208	32208	8052	697	165		2		1					
COLONIAL WOODS DR/FOREST HILL AVE HONADEL BLD						103	100										
PUETZ RD FRANKLIN TERRANCE						207 103						46	45				
GRAYS LN SOUTHLAND DR						115 113											
HILLTOP LN BRIAR WOOD DR						112 117											
RYAN RD/STH 100 STAYBRIDGE SUITES						276 98	158					60			225		
SOUTHLAND DR WHEATON WAY						118 190			2		2						
OAKWOOD RD JOHNS WAY						335 100	132		2		1		62	48		212	
ELM RD COUNTY LINE RD						413		2		1		1					
7 MILE RD						413		2		2		2	38				
		13200	64416	64416	16104	6461	2150	15	18	19	9	14	359	173	730	642	114

PROJECT NO: 1000-77-23

HWY: STH 241

COUNTY: VARIOUS

MISCELLANEOUS QUANTITIES

SHEET:

E

3

3

**WASHINGTON COUNTY  
STH 60 CTH C TO TILLE LAKE RD**

646.1020  
LINE  
EPOXY 4-INCH

UNDISTRIBUTED QUANTITIES  
BID ITEM

ROUTE	NEAREST CROSSROAD	EDGELINE	
		YELLOW LF	WHITE LF
STH 60 EB	CTH C to Tille Lake Rd	13306	13306
STH 60 WB	Tille Lake Rd	13306	13306
TOTAL		26612	26612

BID ITEM	QUANTITY	UNIT
646.1555 MARKING LINE GROOVED CONTRAST PERMANENT TAPE 4-INCH	25	LF
646.3555 MARKING LINE GROOVED CONTRAST PERMANENT TAPE 8-INCH	25	LF
646.5420 MARKING LINE AERIAL ENFORCEMENT BARS	80	EACH
619.1000 MOBILIZATION	1	EACH
SPV.0060.01 TRAFFIC CONTROL	1	EACH

DO NOT PAINT TAPE LANE LINES OR CHANNELIZING LINES

**WASHINGTON COUNTY  
STH 60 @ CTH G**

646.1020  
LINE  
EPOXY 4-INCH

646.3020  
LINE  
EPOXY 8-INCH

646.7120  
DIAGONAL  
EPOXY 12-INCH

646.7120  
DOTTED EXTENSTOIN  
EPOXY 18-INCH

ROUTE	NEAREST CROSSROAD	EDGELINE		CENTERLINE	EDGELINE	GORE	MEDIAN	MAINLINE	INTERSECTING ROADWAY
		YELLOW LF	WHITE LF	YELLOW LF	WHITE LF	White LF	YELLOW LF	2' LINE 2' GAP L.F.	2' LINE 2' GAP LF
STH 60 EB	CTH G	791	1567	1432	1567	157	61	20	20
STH 60 WB	CTH G	791	1567	484	1567	141		20	18
TOTAL		1582	3134	1916	3134	298	61	40	38

**KENOSHA COUNTY  
STH 158  
88th ST TO STH 31**

646.1020  
LINE  
EPOXY 4-INCH

646.3020  
LINE  
EPOXY 8-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 TRANSVERSE  
EPOXY 6-INCH

ROUTE	NEAREST CROSSROAD	CENTERLINE		EDGELINE		LANE LINE	LEFT TURN	RIGHT TURN	LEFT TURN	RIGHT TURN	LEFT TURN	RIGHT TURN	MAINLINE	INTERSECTING ROADWAY	DIAGONAL	MAINLINE	INTERSECTING ROADWAY
		YELLOW LF	WHITE LF	YELLOW LF	WHITE LF	WHITE LF	WHITE LF	WHITE LF	TYPE 2 EACH	TYPE 2 EACH	ONLY EACH	ONLY EACH	L.F.	L.F.	DIAGONAL L.F.	L.F.	L.F.
STH 158 EB	CTH S to STH 31 RUSTOLUM	16263	8553	7815	8553	766	301		2		2				88		
	68TH AVE STH 31						93	582	1	2	1	1	35	38	97	184	252
STH 158 WB	STH 31 to CTH S STH 31	17840	8553	7338	8553	555							37	49		196	255
	68TH AVE						211	636	2	3	1	2	37	23			
	RUSTOLUM CTH H						422	450	2	2	2	2					
TOTAL		34103	17106	15153	17106	1321	1577	2579	9	10	6	8	181	192	185	380	507

PROJECT NO: 1000-77-23

HWY: VARIOUS

COUNTY: VARIOUS

MISCELLANEOUS QUANTITIES

SHEET:

E

3

3

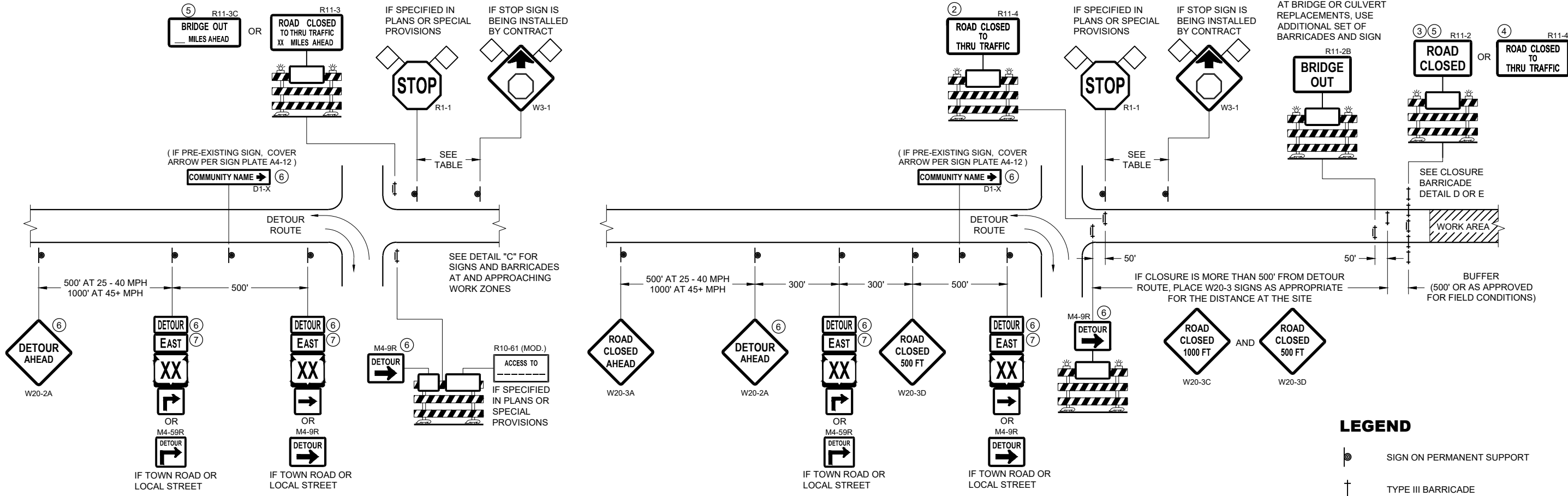
Route	County	Segment	MILES	646.1020 LINE EPOXY 4-IN LF	646.1041.S REPLACE LINE WET REFLECTIVE EPOXY 4-IN LF	646.3020 LINE EPOXY 8-IN LF	646.3041.S REPLACE LINE WET REFLECTIVE EPOXY 8-IN LF	646.5020 ARROW EPOXY EACH	646.5120 WORD EPOXY EACH	646.6120 STOP LINE EPOXY 18-IN LF	646.6320 DOTTED EXTENSTOIN EPOXY 18-IN LF	646.7020 DIAGONAL EPOXY 6-IN LF	646.7120 DIAGONAL EPOXY 12-IN LF	646.7420 CROSSWALK TRANSVERSE EPOXY 6-IN LF	646.7520 CROSSWALK EPOXY BLOCK STYLE 24-IN LF
IH 43	Walworth/WA UKESHA	USH 12 TO STH 164	23.5	607805				46	7	579					
IH 43	Milwaukee	Bruce to north st	2.5	50245		354		6	4	154				322	
IH 94	Milwaukee	70th to Marquette Interchange	3.5	146315		3512		42	8	819				725	
IH 94	Waukesha	Moorland to STH 16	7.6	213968				59	35	1065				106	
IH 94	Waukesha	at CTH P WB & EB	0.4	14932				57	15		162				
STH 31	Kenosha	CTH S to Racine/Kenosha county line (CTH KR JOINT	5	128500		10451		29	25	553				330	
STH 32	Racine	25th street to Kenosha county line	2.3	47936	4106		4580	19	19	414			332	358	
STH 33	Ozaukee	Martin Drive to Mill Street	1.9	41520	5016		6868	41	14	650	164		223	1738	
STH 50	Walworth	Walworth/Kenosha county line to Grand Geneva Way	5.4	123701		10384									
STH 57	Ozaukee	CTH W to Sheboygan Co Line	8.6	183280		14169		39	35	121				260	
STH 57	Ozaukee	Ih 43 to Cedarburg Road (intersection where 57 splits from 167	3.1	73379		11352		31	20	757			95	3041	
STH 59	Waukesha	Arcadian Rd/USH 18 to Calhoun Rd	2.5	69390		8626		25	20	650				1809	
STH 60	Washington	CTH G	0.1	6632		298					78		61		
STH 60	Washington	CTH C TO TILLE LAKE RD	2.5	53224											
STH 83	Waukesha	CTH NN to Holiday Road	5.1	107146				39	22	219			306	1083	
STH 83	Waukesha	CTH DE/E to Glacier Pass	2.1	42980				42	7		36	184	417		
STH 100	Milwaukee	IH 94 to Silver Spring	6	127108				82	72	2496			103	9361	
STH 100	Milwaukee	91st street to USH 41/45	1.4	36432		0		8	6	864				2201	
STH 158	Kenosha	CTH S to STH 31	1.6	67683		4156		19	14	373			185	887	
STH 165	Kenosha	West frontage road to STH 31 & RAB 47TH TO 32 (SPECIAL MARKINGS)	3.1	56038				83	34	834	192		670	360	288
STH 175	Milwaukee	Capitol Drive to IH 41/USH 45	3.6	76958				29	12	1501			291	6839	
STH 241	Milwaukee	Milwaukee Co Line to CTH DREXEL	6	158136		8611		52	23	532			730	756	
TOTAL			97.8	2433308	9122	71913	11448	748	392	12581	632	184	3413	30176	288

PROJECT NO: 1000-77-23	HWY: VARIOUS	COUNTY: VARIOUS	MISCELLANEOUS QUANTITIES	SHEET: E
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## Standard Detail Drawing List

15C02-08A	BARRICADES AND SIGNS FOR MAINLINE CLOSURES
15C02-08B	BARRICADES AND SIGNS FOR VARIOUS CLOSURES
15C07-15B	PAVEMENT MARKING WORDS
15C07-15C	PAVEMENT MARKING ARROWS
15C07-15D	ROUNDBOUT ARROWS
15C07-15E	PAVEMENT MARKING FOR BIKE LANES
15C08-21A	LONGITUDINAL MARKING (MAINLINE)
15C08-21C	PAVEMENT MARKING (TURN LANES)
15C08-21D	PAVEMENT MARKING (TURN LANES)
15C11-09B	CHANNELIZING DEVICES DRUMS, CONES, BARRICADES AND VERTICAL PANELS
15C12-09A	TRAFFIC CONTROL FOR LANE CLOSURE WITH FLAGGING OPERATION
15C14-04	AERIAL ENFORCEMENT BARS PAVEMENT MARKING DETAILS
15C18-06A	MEDIAN ISLAND MARKING PAVEMENT MARKINGS
15C18-06B	MEDIAN ISLAND MARKING MEDIAN ISLAND NOSE
15C19-07A	MOVING PAVEMENT MARKING OPERATION TWO-LANE TWO-WAY ROADWAY
15C19-07B	MOVING PAVEMENT MARKING OPERATION MULTI-LANE UNDIVIDED ROADWAY
15C19-07C	MOVING PAVEMENT MARKING OPERATION MULTI-LANE DIVIDED ROADWAY
15C31-04A	PAVEMENT MARKING EXIT RAMP AND PARALLEL EXIT RAMP
15C31-04B	PAVEMENT MARKING MAJOR SPLIT FREEWAY TO FREEWAY
15C31-04C	PAVEMENT MARKING ENTRANCE RAMP AND PARALLEL ENTRANCE RAMP
15C31-04D	PAVEMENT MARKING SERVICE INTERCHANGE LANE DROP AND LANE REDUCTION MARKING
15C33-04	STOP LINE AND CROSSWALK PAVEMENT MARKING
15C35-05A	PAVEMENT MARKING (INTERSECTIONS)
15C35-05B	PAVEMENT MARKING AND SIGNING (CLIMBING LANE & PASSING LANE)
15C35-05C	PAVEMENT MARKING AND SIGNING (CLIMBING LANE & PASSING LANE)
15D12-10A	TRAFFIC CONTROL, LANE CLOSURE
15D20-06A	TRAFFIC CONTROL, SINGLE LANE CLOSURE, NON-FREEWAY/EXPRESSWAY
15D20-06B	TRAFFIC CONTROL, SINGLE RIGHT LANE CLOSURE, UNDIVIDED NON-FREEWAY/EXPRESSWAY
15D20-06C	TRAFFIC CONTROL, SINGLE LEFT LANE CLOSURE, UNDIVIDED NON-FREEWAY/EXPRESSWAY
15D27-03	TRAFFIC CONTROL, SHOULDER CLOSURE ON DIVIDED ROADWAY, SPEEDS GREATER THAN 40 MPH
15D37-03	TRAFFIC CONTROL, 2-LANE ROUNDBOUT
15D43-02	TRAFFIC CONTROL, SHORT DURATION MOBILE OPERATIONS
15D50-02A	TRAFFIC CONTROL, ADDED LANE CLOSURE WITHOUT LANE SHIFT
15D50-02B	TRAFFIC CONTROL, ADDED LANE CLOSURE WITH LANE SHIFT
15D51-01	TRAFFIC CONTROL, MOBILE OPERATIONS ON AN UNDIVIDED ROADWAY



**DETAIL A  
MAINLINE CLOSURE WITH POSTED DETOUR**

WORK ZONE GREATER THAN OR EQUAL TO 1/2 MILE FROM  
DETOUR ROUTE ( 1000 FEET IF URBAN )

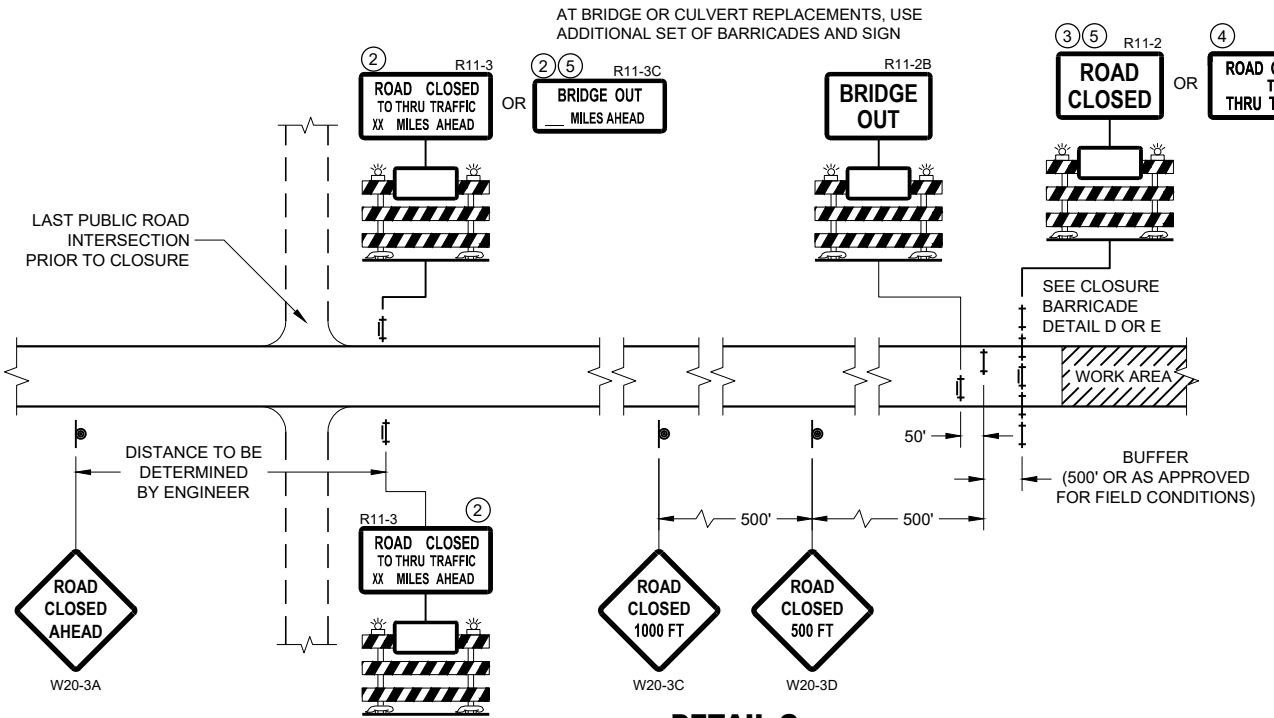
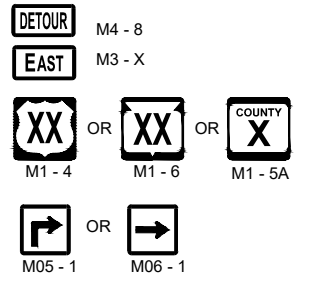
**DETAIL B  
MAINLINE CLOSURE WITH POSTED DETOUR**

WORK ZONE LESS THAN 1/2 MILE FROM  
DETOUR ROUTE ( 1000 FEET IF URBAN )

**LEGEND**

- SIGN ON PERMANENT SUPPORT
- TYPE III BARRICADE
- TYPE III BARRICADE WITH ATTACHED SIGN
- TYPE "A" WARNING LIGHT (FLASHING)
- WORK AREA
- FLAGS, 16" X 16" MIN. (ORANGE)

SPEED LIMIT (MPH)	"STOP AHEAD" ADVANCE WARNING DISTANCE (FT)
25	200
30	200
35	350
40	350
45	500
50	550
55	750



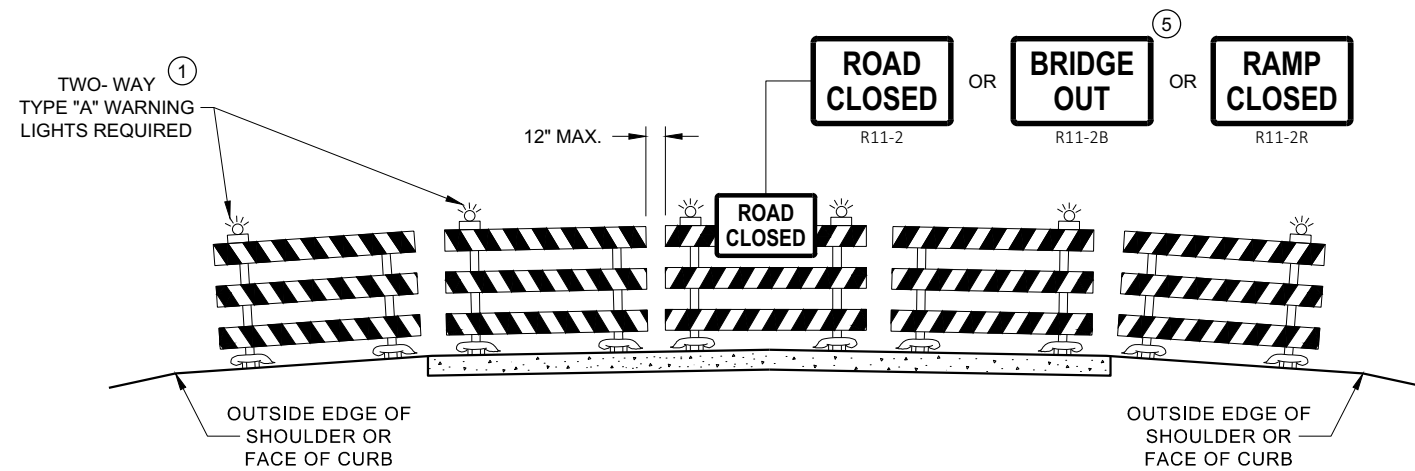
**DETAIL C  
MAINLINE CLOSURE, NO POSTED DETOUR**

SEE SDD 15C2-SHEET "b"  
FOR GENERAL NOTES  
AND FOOTNOTES ① THROUGH ⑦

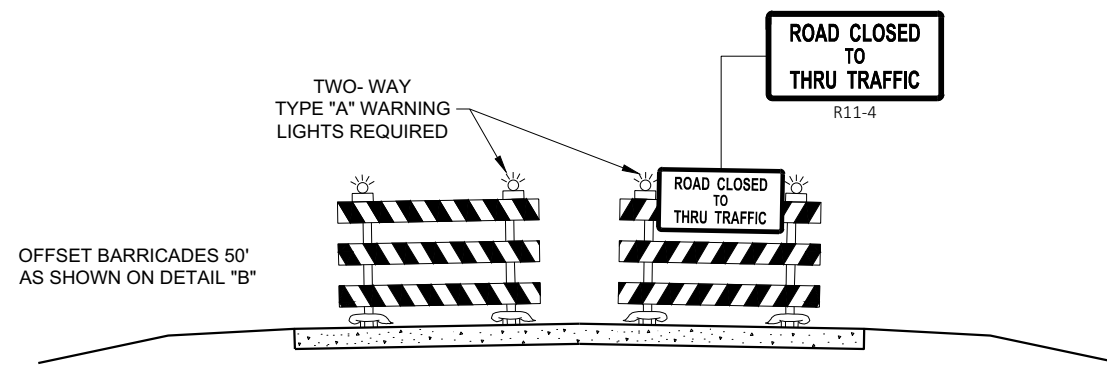
**BARRICADES AND SIGNS  
FOR MAINLINE CLOSURES**

STATE OF WISCONSIN  
DEPARTMENT OF TRANSPORTATION

APPROVED  
February 2020 /S/ Andrew Heidtke  
DATE WORK ZONE ENGINEER  
FHWA



**DETAIL D  
ROAD CLOSURE BARRICADE DETAIL  
APPROACH VIEW**



**DETAIL E  
LANE CLOSURE BARRICADE DETAIL  
APPROACH VIEW**

SEE SDD 15C2 - SHEET "a" FOR LEGEND

**GENERAL NOTES**

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

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.

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

BARRICADES THAT MUST BE MOVED FOR A WORK OPERATION SHALL BE IMMEDIATELY RE-ESTABLISHED UPON COMPLETION OF THE OPERATION, OR FOR CONTINUING OPERATIONS, AT THE END OF EACH WORKING DAY.

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

ALL TYPE III BARRICADES SHALL HAVE RAILS REFLECTORIZED ON BOTH FACES. STRIPES SHALL BE PROPERLY SLOPED DOWN TOWARD THE TRAFFIC SIDE OR AS SHOWN IN THE ROAD CLOSURE BARRICADE DETAIL "D" FOR FULL ROAD CLOSURES.

TYPE "A" LOW - INTENSITY FLASHING WARNING LIGHTS SHALL BE VISIBLE ON BOTH SIDES OF THE BARRICADE.

THE R11 - 2, R11 - 3, M4 - 9, R11 - 4, AND R10 - 61 SIGNS PLACED ON THE BARRICADES SHALL COVER NO MORE THAN THE TOP RAIL. THE SIGNS SHALL NOT COVER ANY PORTION OF THE MIDDLE RAIL OR BOTTOM RAILS.

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

ALL SIGNS SHALL BE 48" X 48" UNLESS OTHERWISE NOTED BELOW:

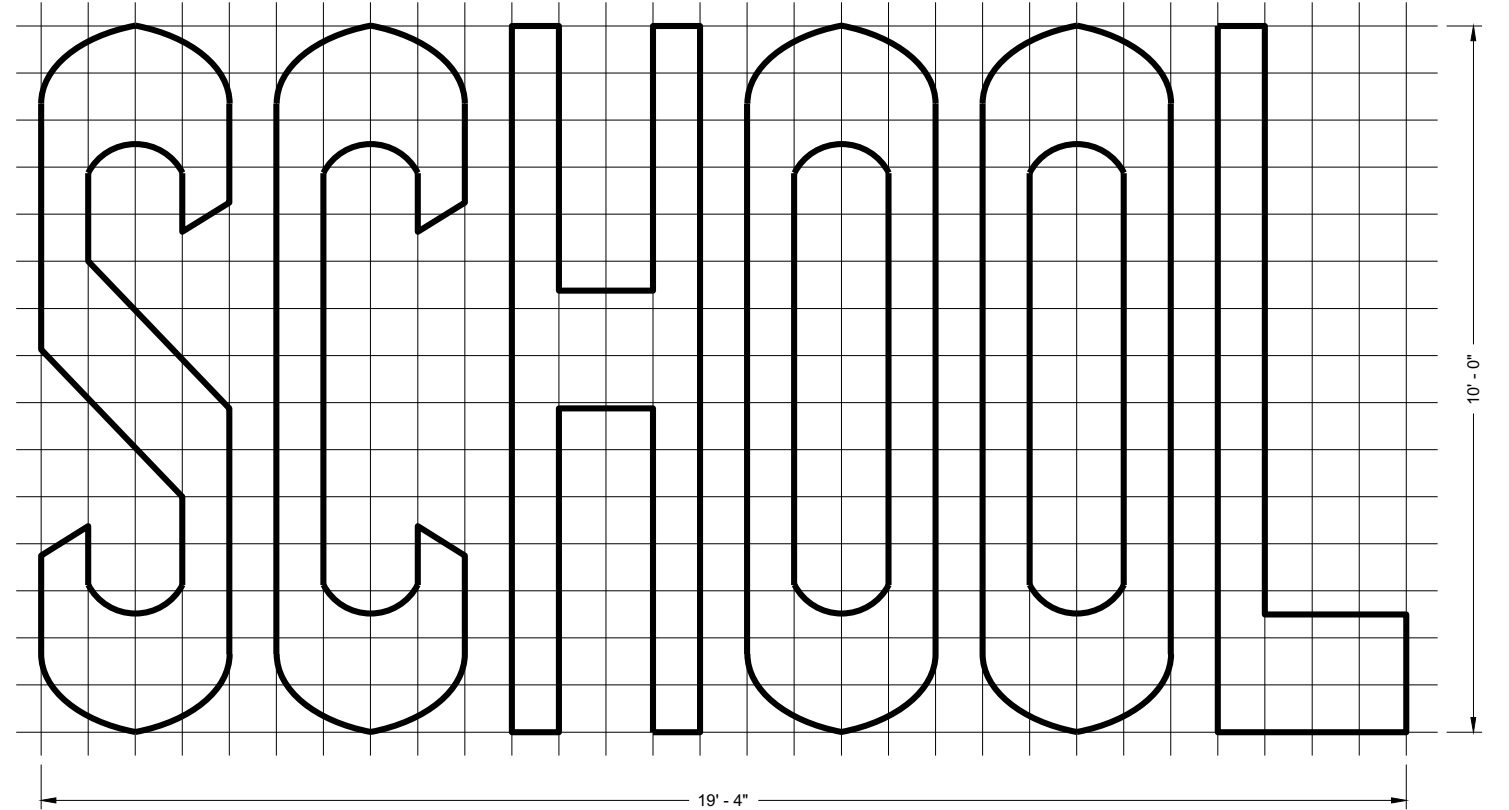
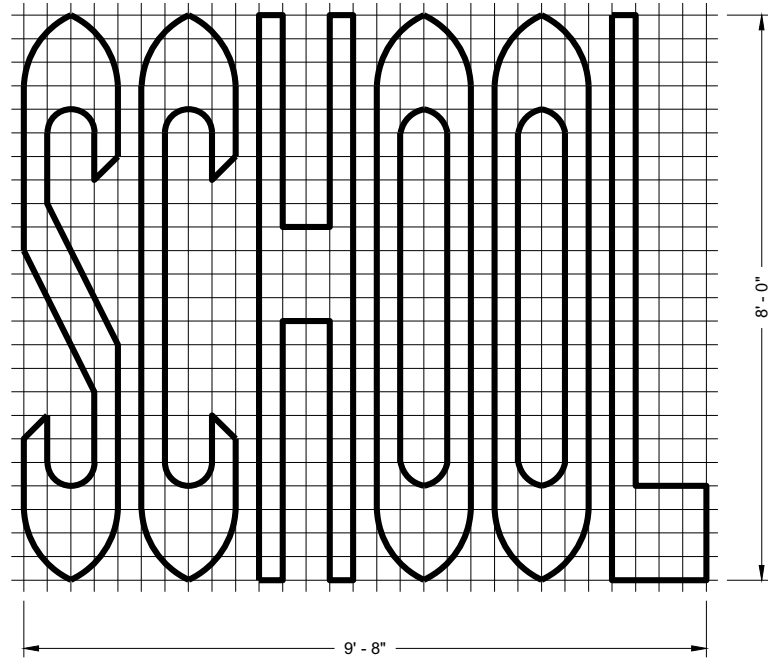
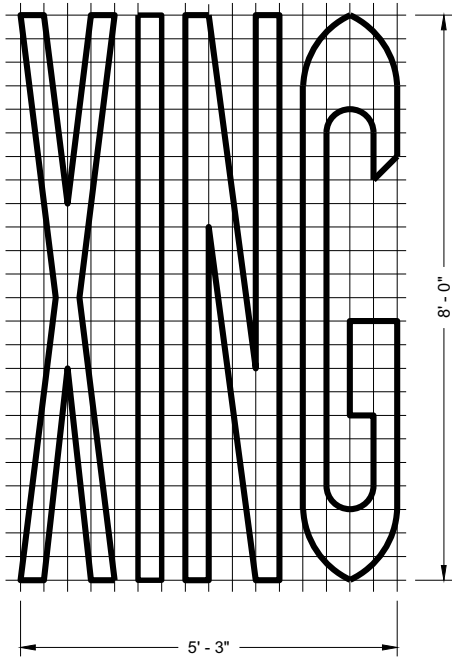
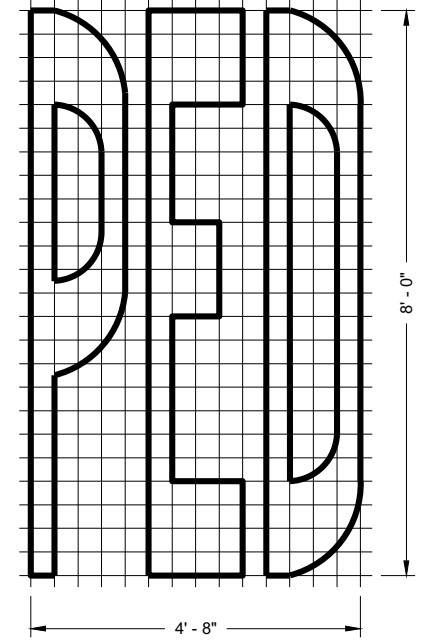
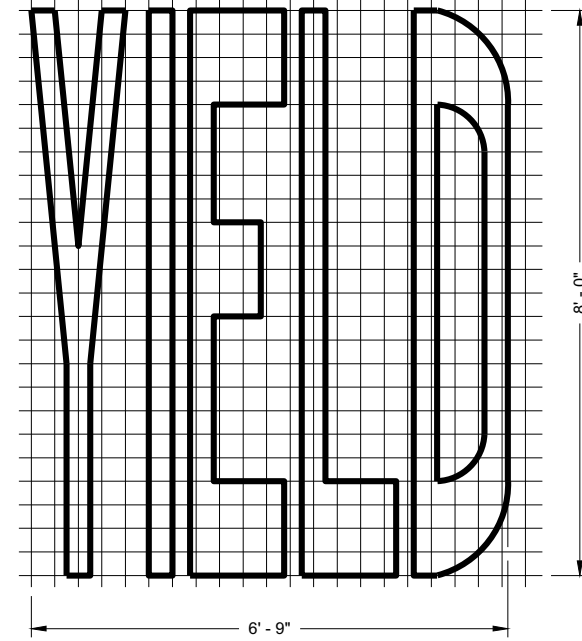
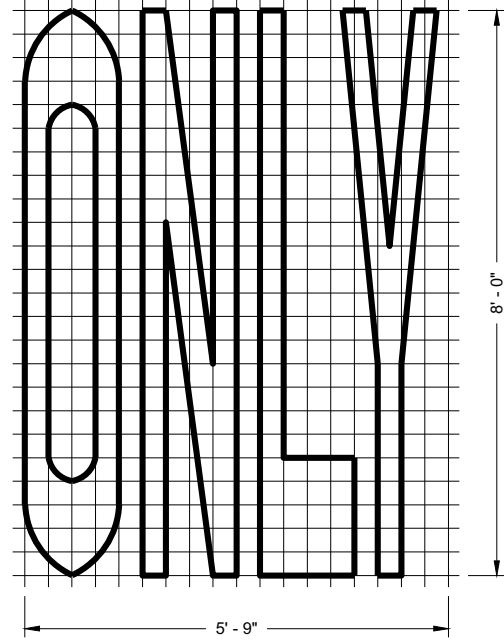
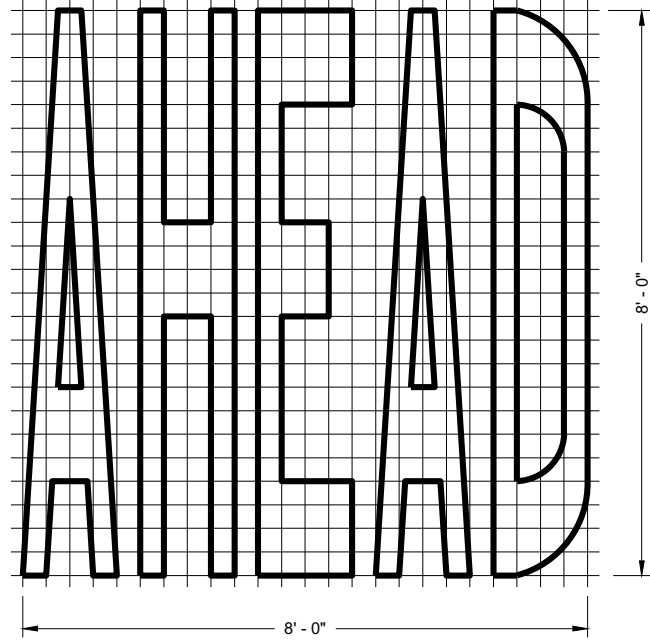
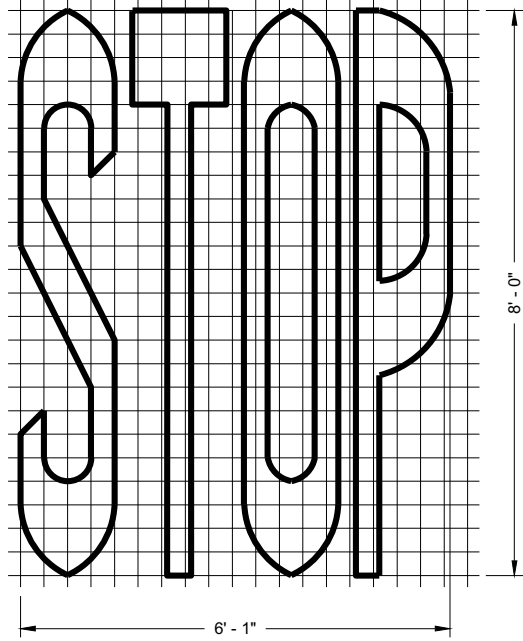
- R11 - 2 SHALL BE 48" X 30"
- R11 - 3 SHALL, R11 - 4 AND R10 - 61 SHALL BE 60" X 30"
- M4 - 9 SHALL BE 30" X 24"
- M3 - X SHALL BE 24" X 12" (36" X 18" IF NEEDED TO MATCH EXISTING SIGNS)
- M4 - 8 SHALL BE 24" X 12" (36" X 18" IF NEEDED TO MATCH EXISTING SIGNS)
- M1 - 4, M1 - 5A AND M1 - 6 SHALL BE 24" X 24" (36" X 36" IF NEEDED TO MATCH EXISTING SIGNS)
- MO5 - 1 AND MO6 - 1 SHALL BE 21" X 21" (30" X 30" IF NEEDED TO MATCH EXISTING SIGNS)
- D1 - X SHALL BE AS SHOWN ON SPECIFIC PROJECT SIGNING DETAIL SHEETS.
- R1 - 1 SHALL BE 36" X 36"

- ① TWO WARNING LIGHTS SHALL BE PROVIDED ON THE CENTER BARRICADE AND A MINIMUM OF ONE WARNING LIGHT SHALL BE PROVIDED ON EACH OF THE OTHER BARRICADES WITHIN THE ROADWAY LIMITS. SPACING OF THE WARNING LIGHTS SHALL BE UNIFORM TO THE EDGE OF ROADWAY AS SHOWN (APPROX. 8 FOOT LIGHT SPACING).
- ② THESE SIGNS AND BARRICADES ARE NOT REQUIRED IF ROAD CLOSURE BEGINS AT AN INTERSECTION.
- ③ FOR ROAD CLOSURE WITHOUT LOCAL ACCESS TO PROJECT, SEE ROAD CLOSURE BARRICADE DETAIL "D".
- ④ FOR ROAD CLOSURE WITH LOCAL ACCESS TO PROJECT, SEE ROAD CLOSURE BARRICADE DETAIL "E".
- ⑤ FOR BRIDGE OR CULVERT REPLACEMENTS, SUBSTITUTE "BRIDGE OUT" INSTEAD OF "ROAD CLOSED" ON R11 - 2 AND R11 - 3 SIGNS.
- ⑥ INSTALL DETOUR AND COMMUNITY GUIDE SIGNS AND ARROWS ONLY IF SPECIFIED IN THE CONTRACT. IF THERE ARE EXISTING ROUTE MARKER ASSEMBLIES THAT WILL REMAIN IN PLACE, ADJUST THE LOCATION OF THE DETOUR ROUTE SIGNS TO CORRESPOND WITH THE EXISTING ASSEMBLIES. MODIFY EXISTING SIGNS WHERE POSSIBLE. SEE SPECIFIC PROJECT DETOUR SIGNING DETAIL SHEETS. IF DETOUR SIGNS ARE BEING INSTALLED BY OTHERS, PLACE THE CONTRACTED TRAFFIC CONTROL SIGNS TO ALLOW FOR PLACEMENT OF ALL WARNING, DETOUR AND GUIDE SIGNS AS SHOWN.
- ⑦ "EAST" CARDINAL DIRECTION MARKERS AND RIGHT TURN ARROWS ARE SHOWN. USE OTHER CARDINAL DIRECTIONS AND ARROWS AS APPROPRIATE.

**BARRICADES AND SIGNS  
FOR  
VARIOUS CLOSURES**

STATE OF WISCONSIN  
DEPARTMENT OF TRANSPORTATION

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



SINGLE LANE

TWO - LANE

**GENERAL NOTES**

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

**PAVEMENT MARKING WORDS**

STATE OF WISCONSIN  
DEPARTMENT OF TRANSPORTATION

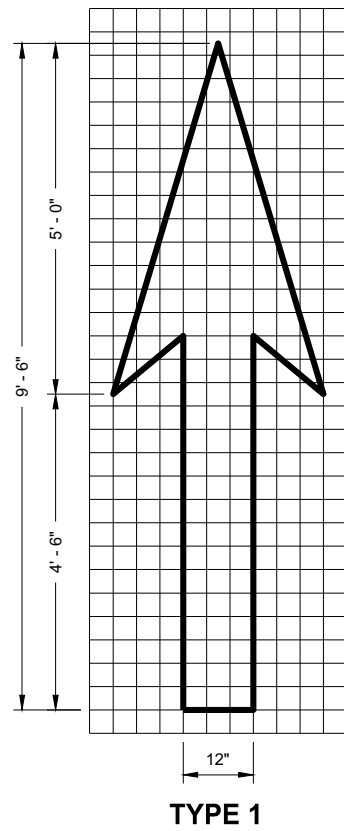
APPROVED

November 2019

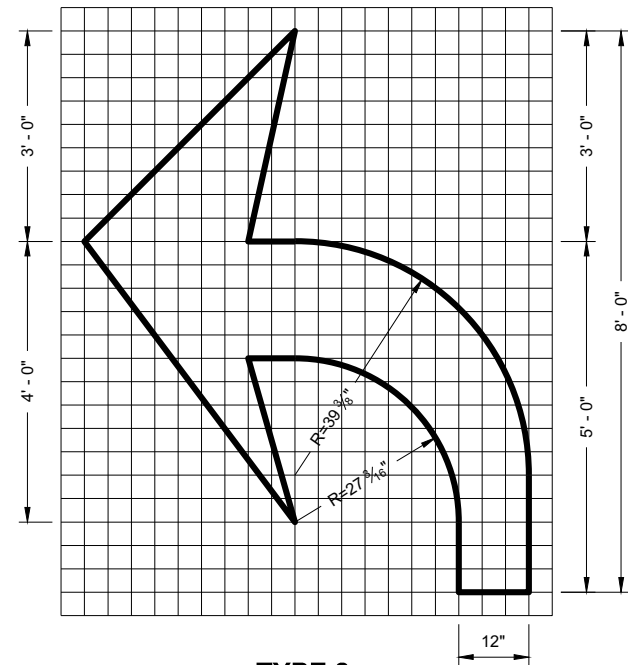
DATE

FHWA

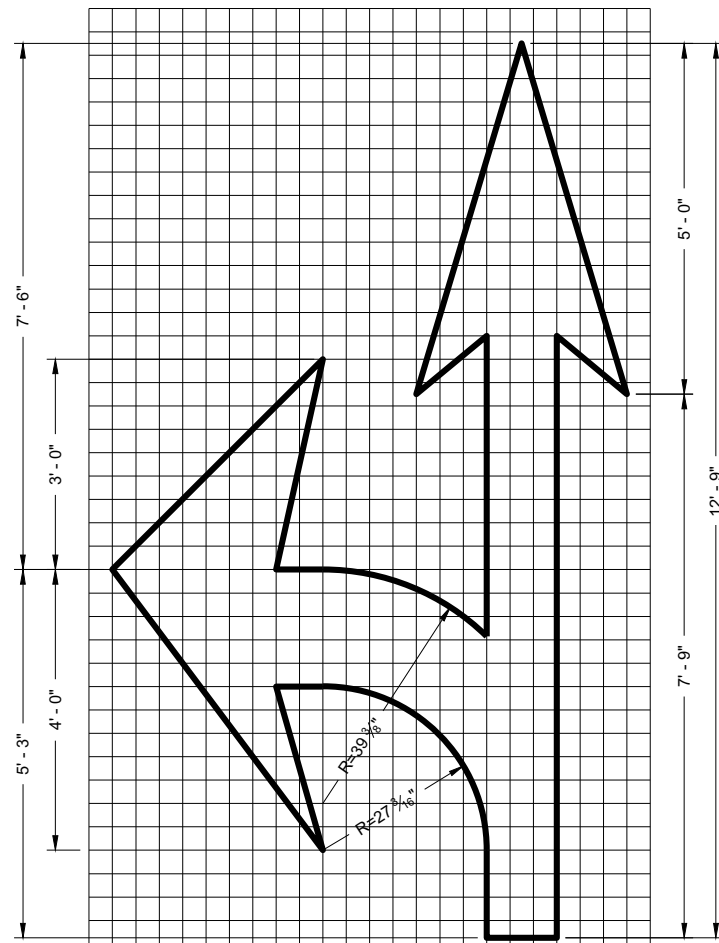
/S/ Matthew Rauch  
STATE SIGNING AND MARKING  
ENGINEER



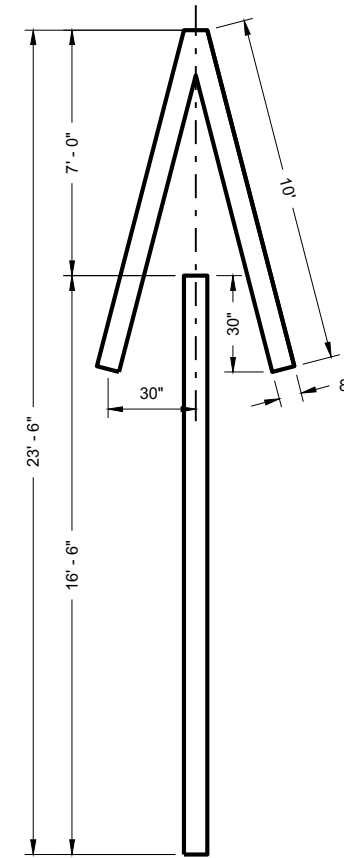
TYPE 1



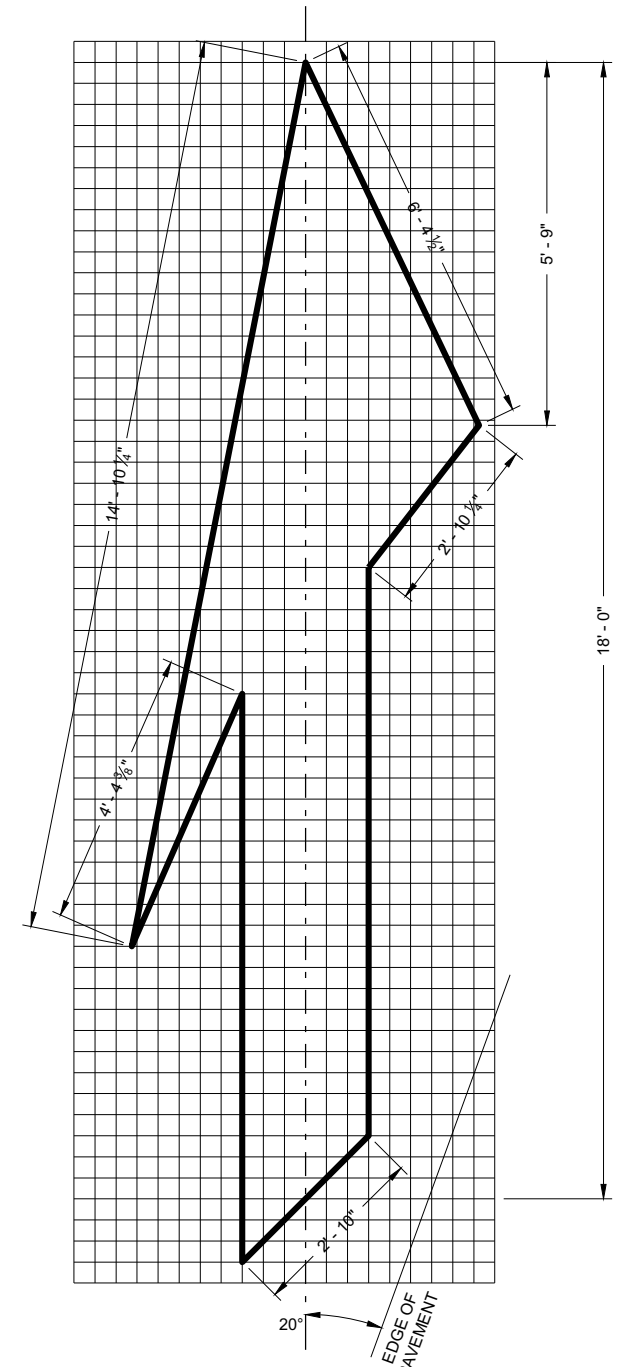
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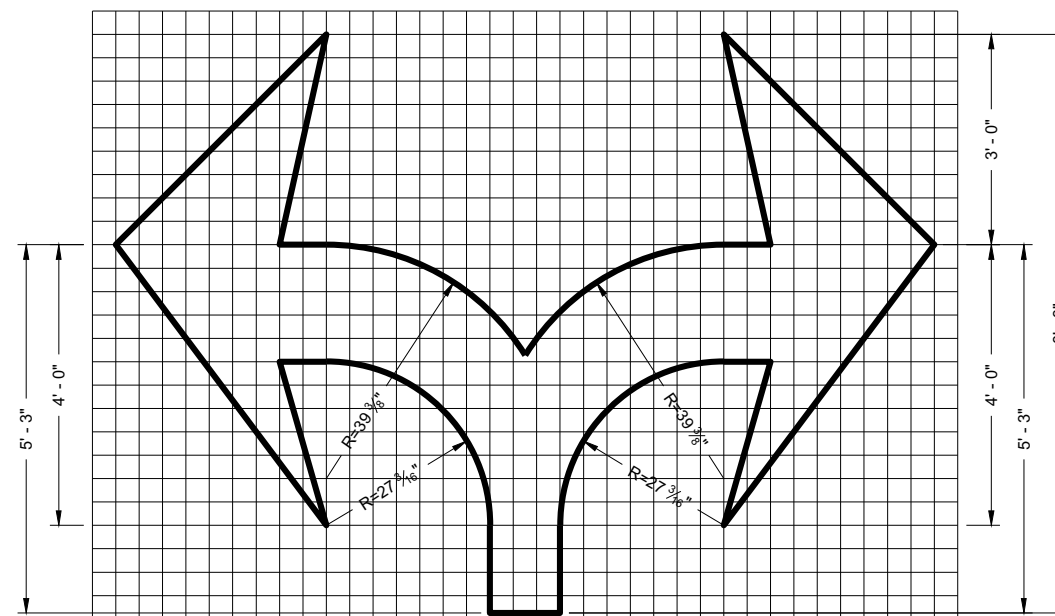
TYPE 3



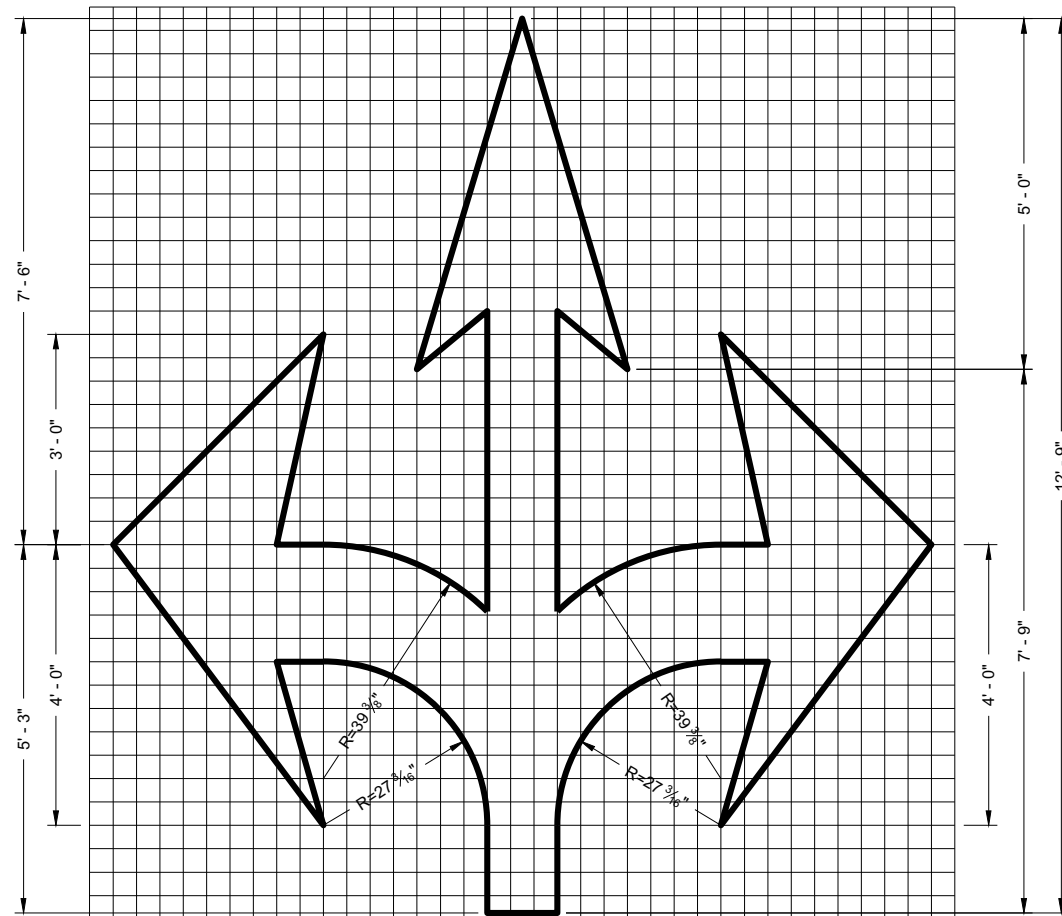
TYPE 4



TYPE 5 LANE DROP ARROW



TYPE 7



TYPE 6

GENERAL NOTES

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

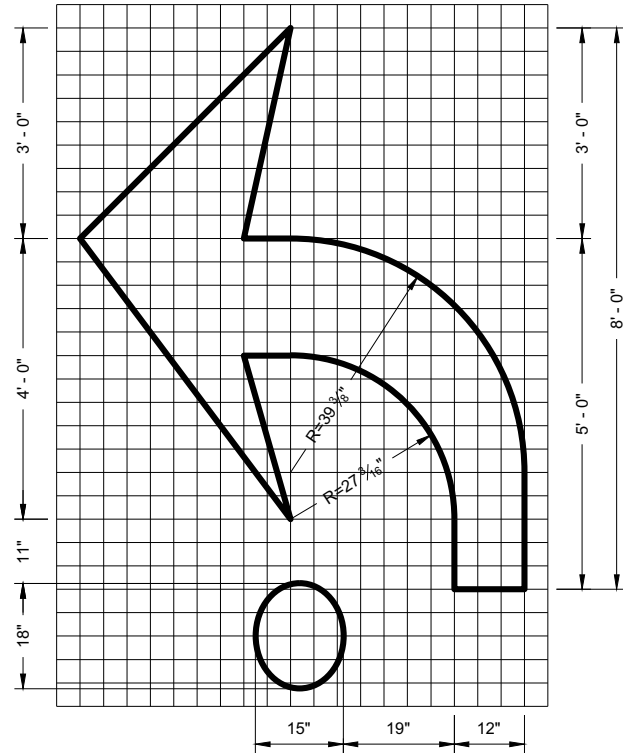
PAVEMENT MARKING ARROWS

STATE OF WISCONSIN  
DEPARTMENT OF TRANSPORTATION

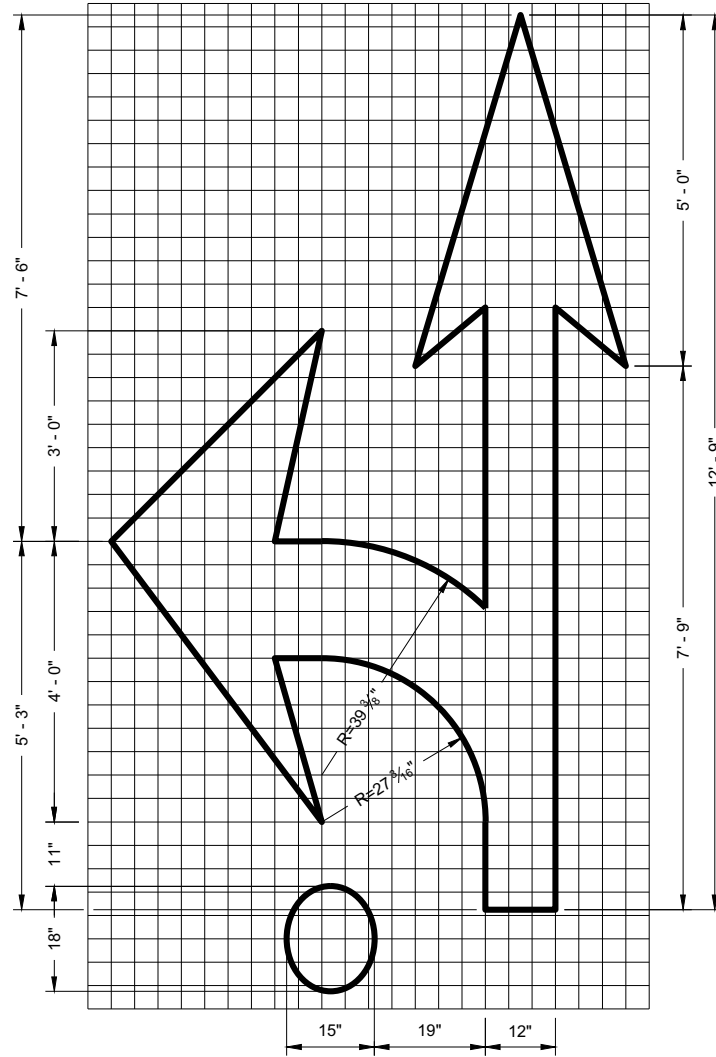
APPROVED  
November 2019  
DATE /S/ Matthew Rauch  
STATE SIGNING AND MARKING  
ENGINEER  
FHWA

**GENERAL NOTES**

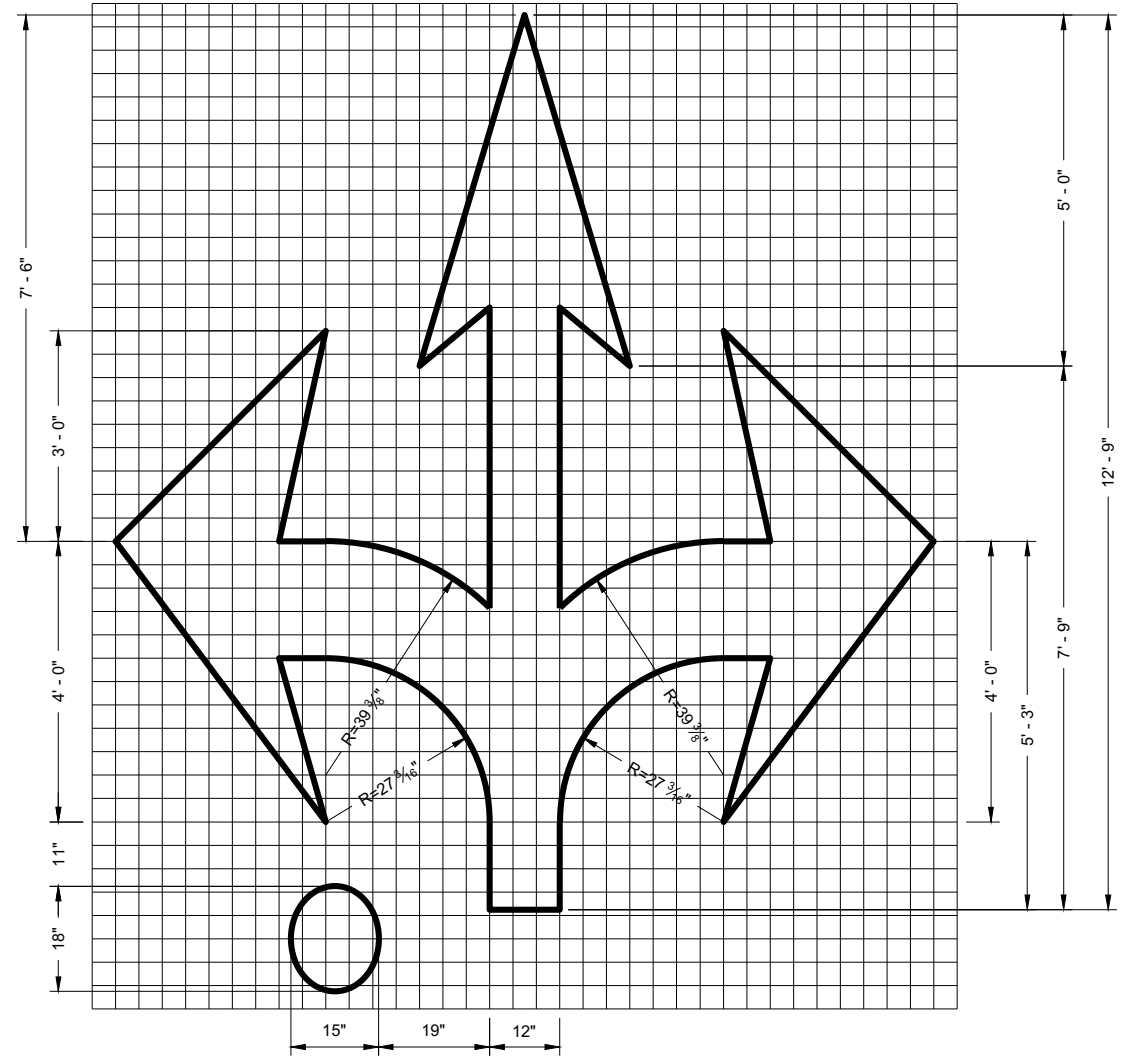
DETAILS OF INSTALLATION, MATERIALS AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS AND APPLICABLE SPECIAL PROVISIONS.



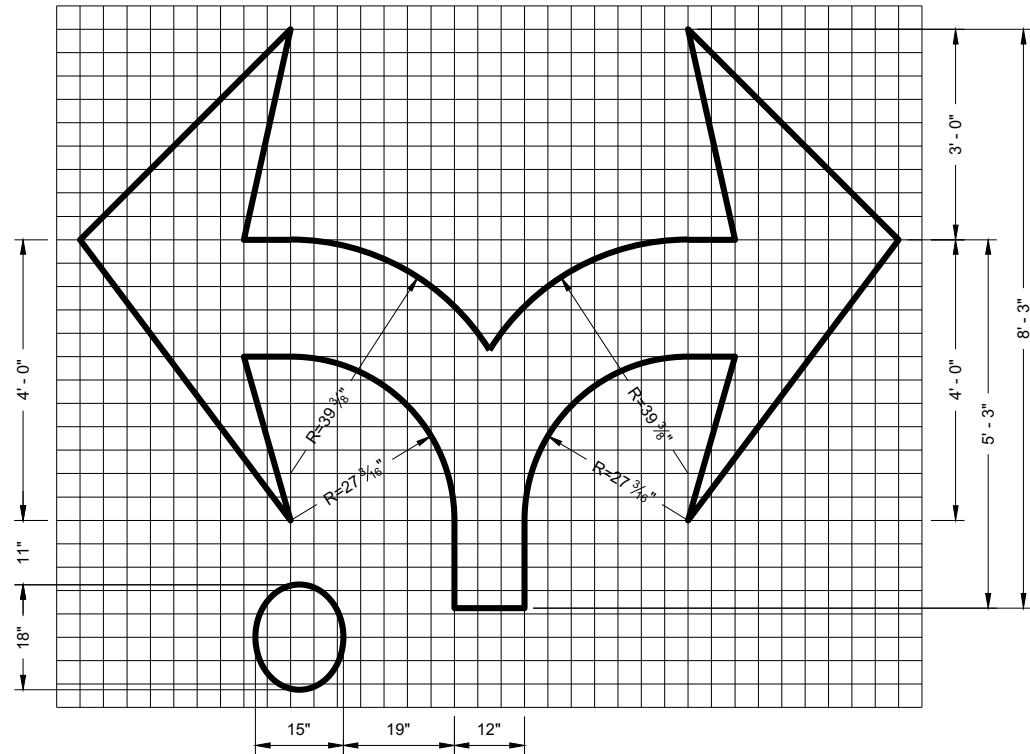
**TYPE 2R**



**TYPE 3R**



**TYPE 6R**



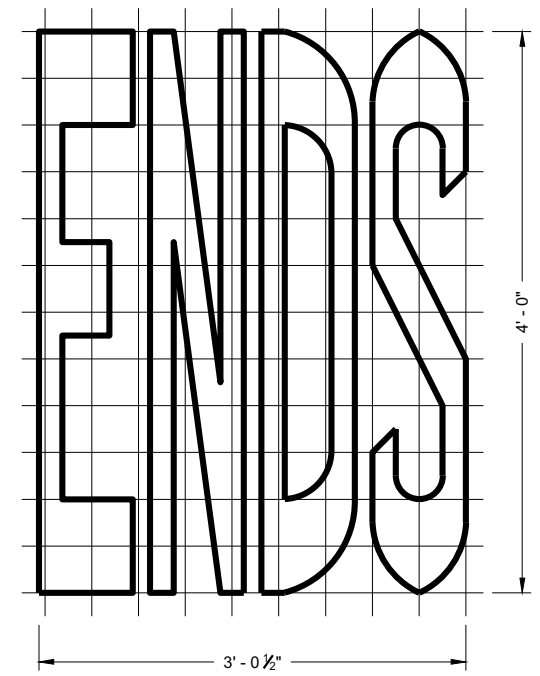
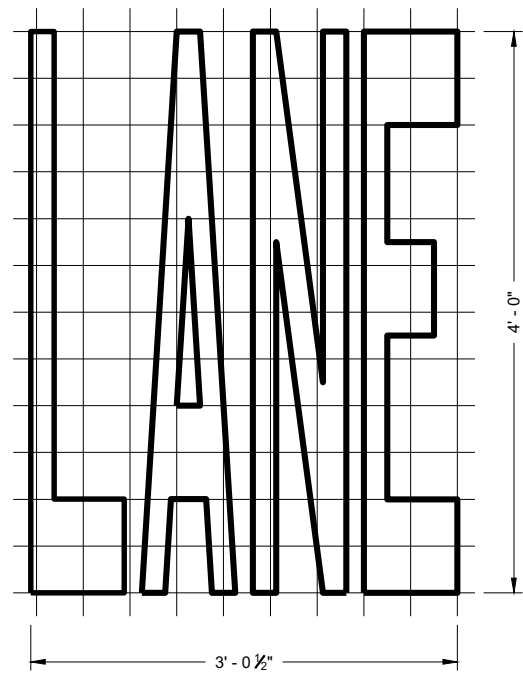
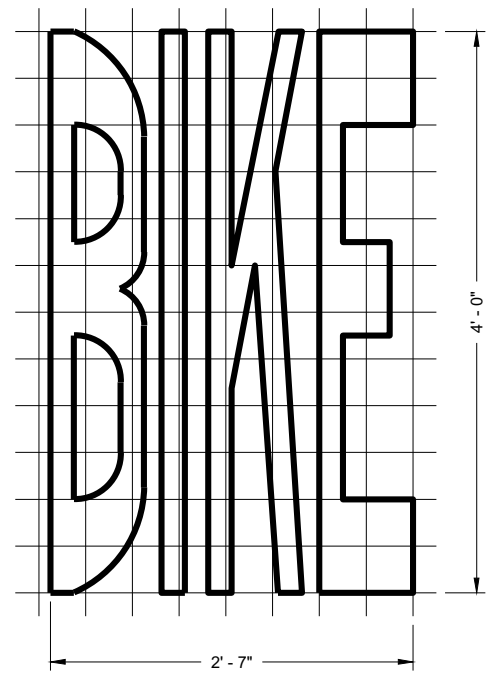
**TYPE 7R**

**ROUNDBOUT  
MARKING ARROWS**

STATE OF WISCONSIN  
DEPARTMENT OF TRANSPORTATION

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

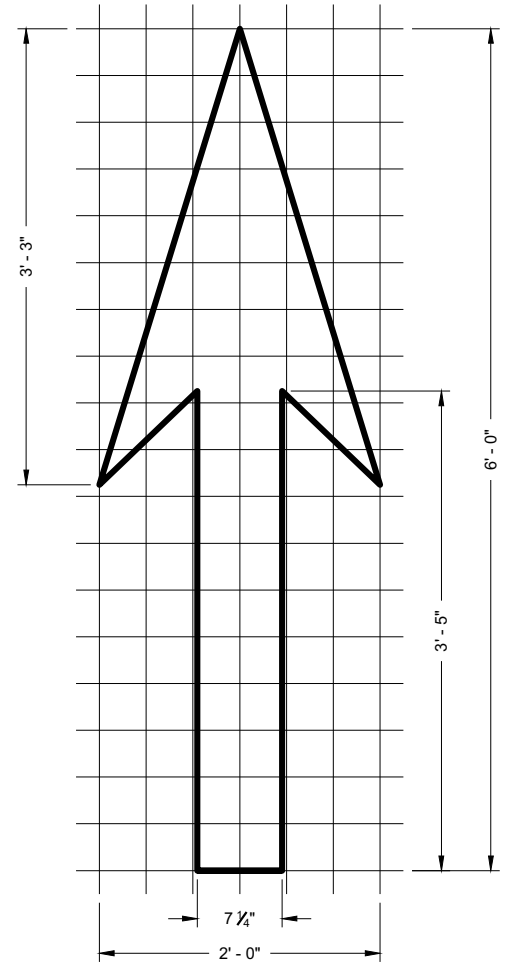
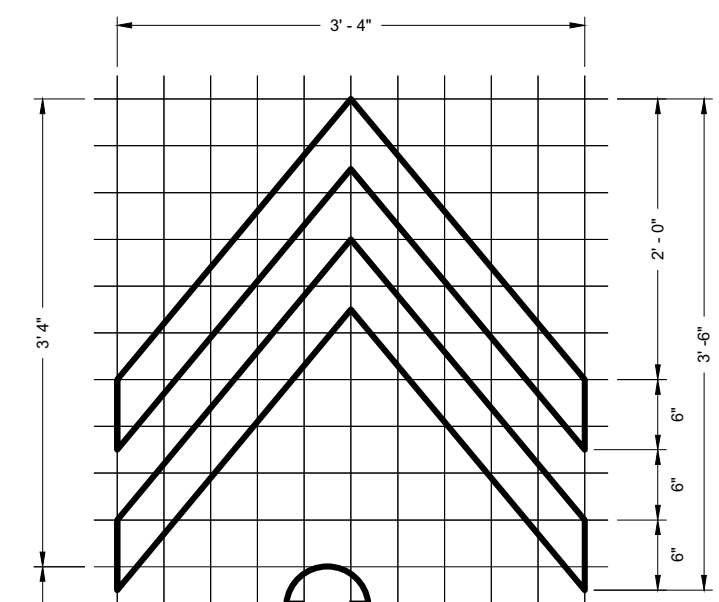
FHWA



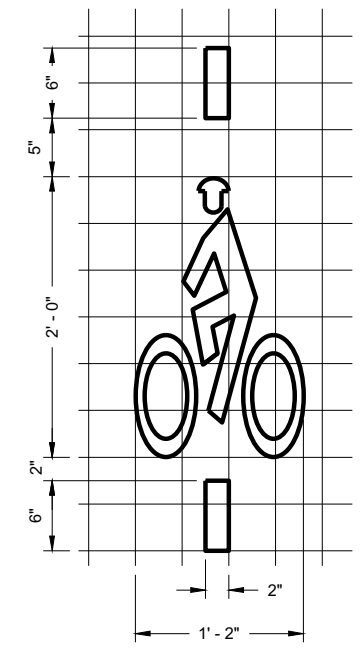
BIKE LANE WORDS

**GENERAL NOTES**

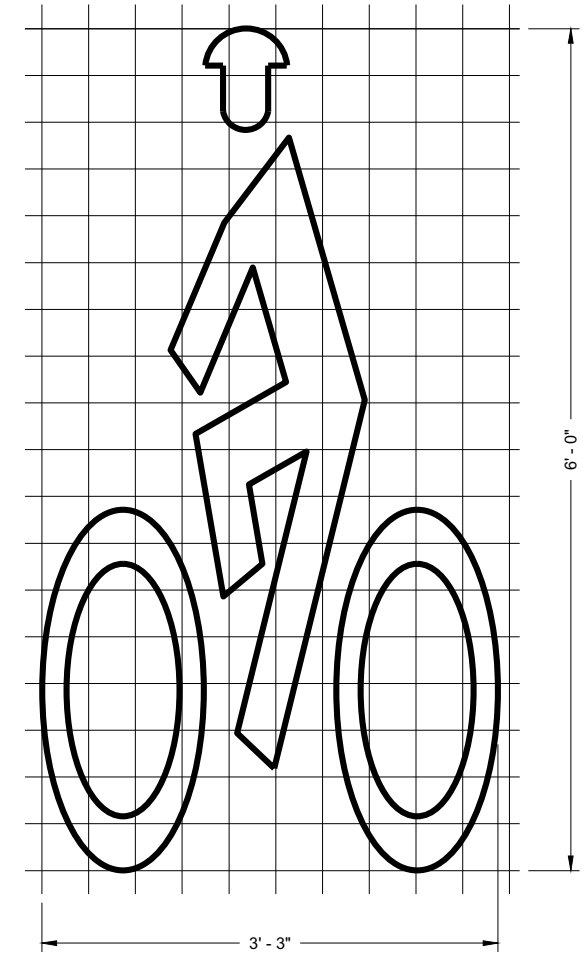
DETAILS OF INSTALLATION, MATERIALS AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS AND APPLICABLE SPECIAL PROVISIONS.



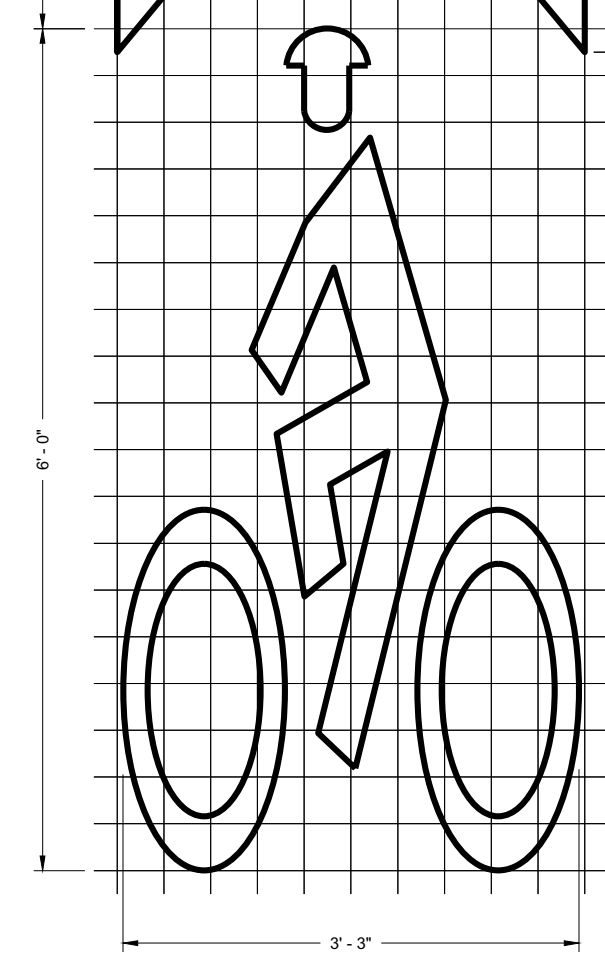
BIKE LANE ARROW



BIKE DETECTOR PAVEMENT MARKING



BIKE LANE SYMBOL



BIKE LANE SYMBOL FOR SHARED LANE

6

6




<b>PAVEMENT MARKING FOR BIKE LANES</b>	
STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION	
APPROVED November 2019 DATE	/s/ Matthew Rauch STATE SIGNING AND MARKING ENGINEER
FHWA	

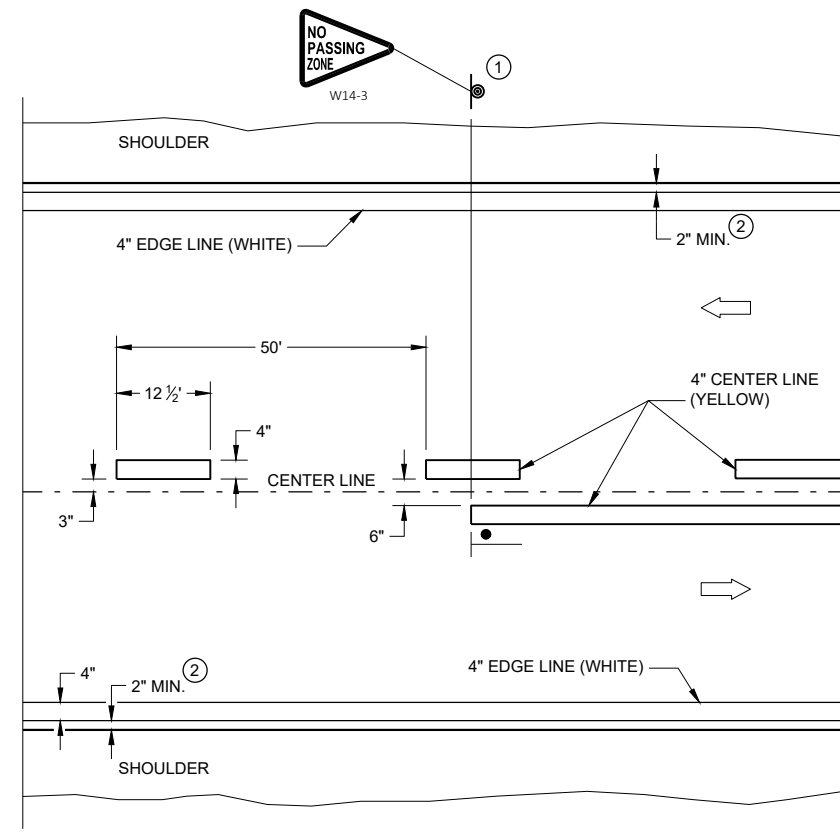
**GENERAL NOTES**

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

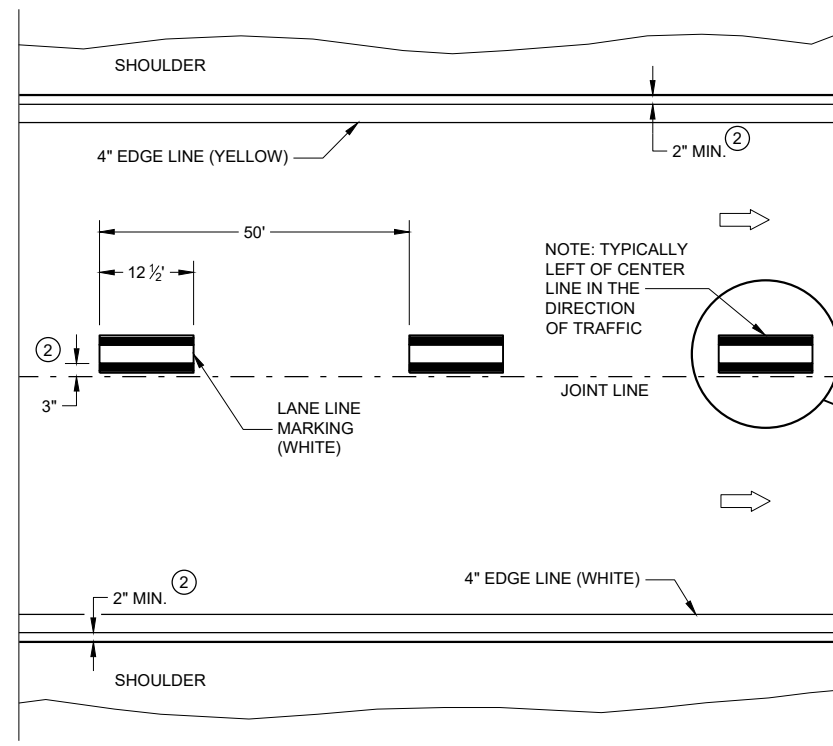
- ① LOCATE THE NO PASSING ZONE W14-3 SIGN WITHIN 50 FEET OF THE "T" MARKING
- ② MEASURE FROM EDGE OF MARKING TO JOINT LINE. THIS DOES NOT INCLUDE SPACE NEEDED FOR GROOVING OPERATIONS.

**LEGEND**

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

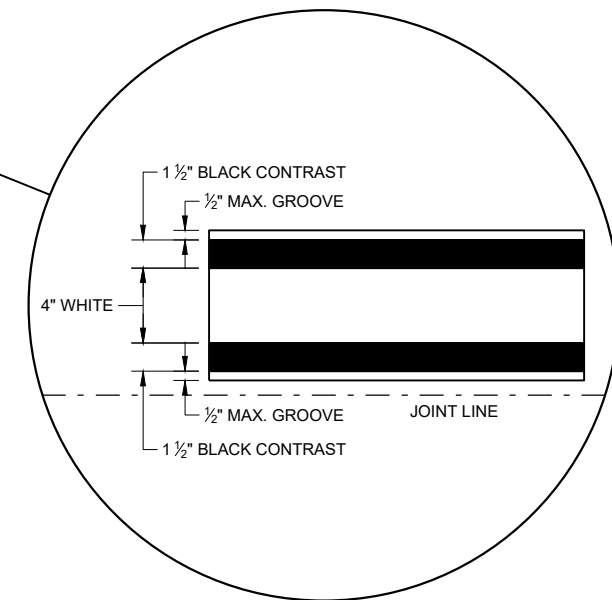


**TWO WAY TRAFFIC**



**ONE WAY TRAFFIC**

**PERMANENT PAVEMENT MARKING**



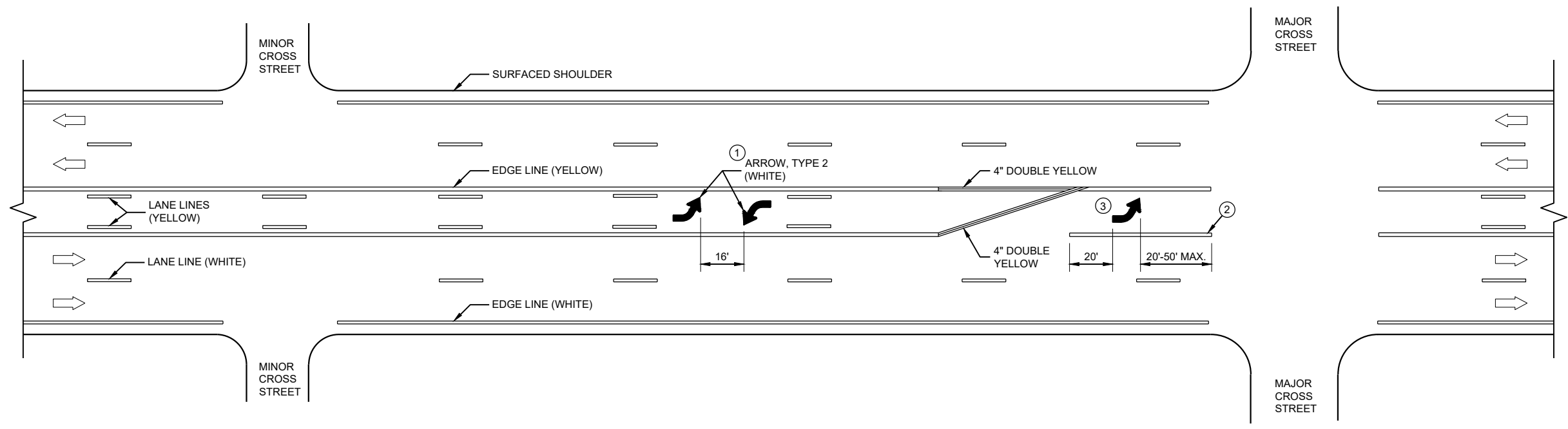
<b>PERMANENT LONGITUDINAL PAVEMENT MARKINGS</b>	
STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION	
APPROVED May 2022 DATE	/S/ Jeannie Silver STATEWIDE SIGNING AND MARKING ENGINEER
<small>FHWA</small>	



**GENERAL NOTES**

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

➡ DIRECTION OF TRAFFIC



**TWO WAY LEFT TURN LANE**

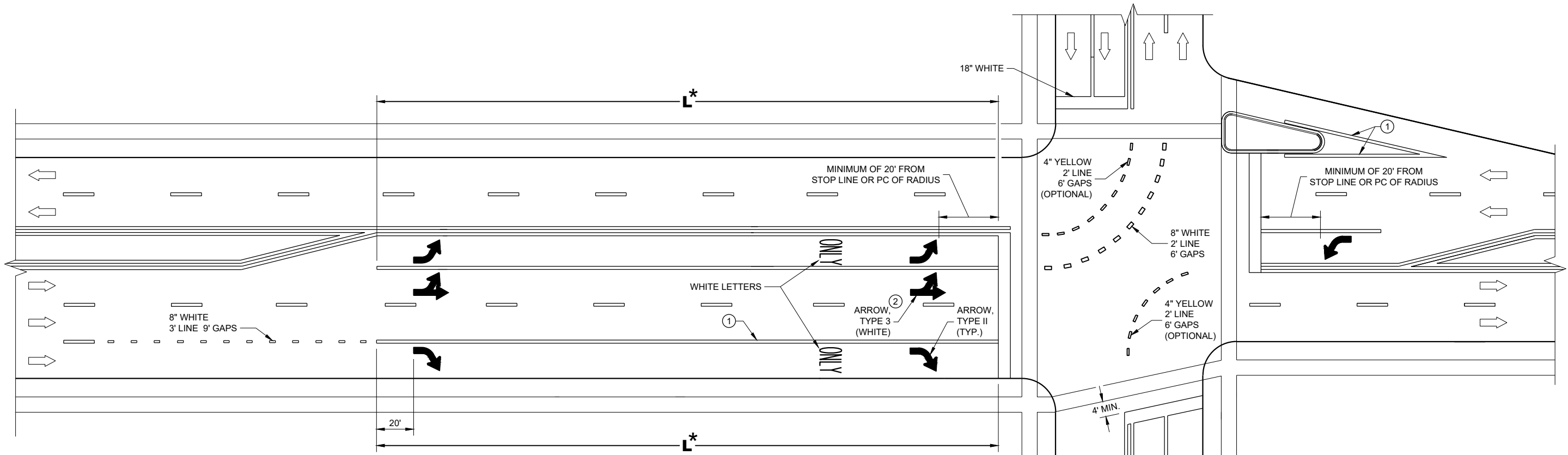
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6

SDD 15C08 - 21c

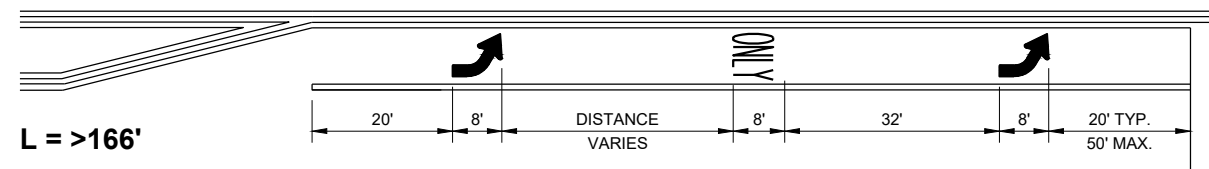
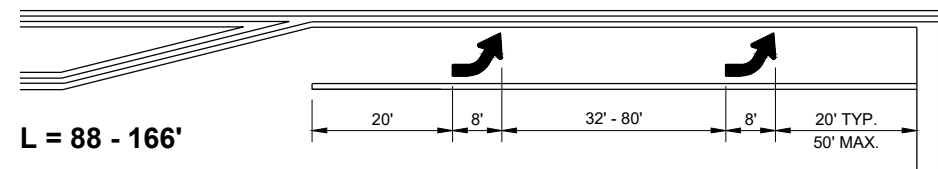
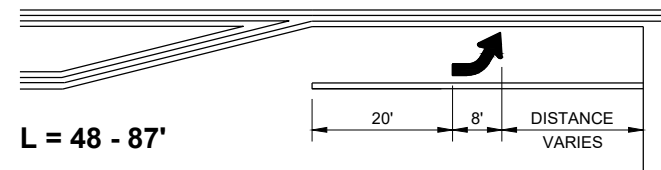
SDD 15C08 - 21c

<p><b>PAVEMENT MARKING (TURN LANES)</b></p>
<p>STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION</p>



**TURN LANE OPTIONS**

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



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

**GENERAL NOTES**

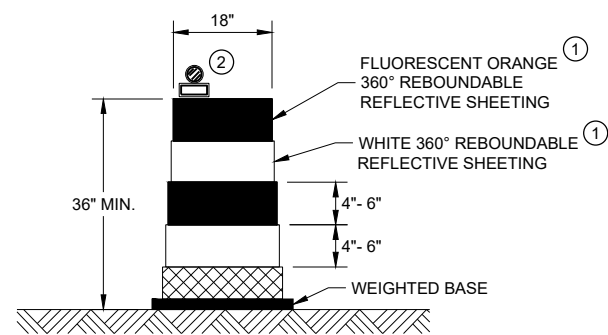
- ① 8" WHITE
- ② QUANTITY AND LOCATION OF TYPE 3 ARROWS ARE THE SAME AS THE TYPE II ARROWS IN THE ADJACENT TURN LANE. FOR TURN LANES WITH A PHYSICAL SEPARATION IN THE SAME DIRECTION OF TRAVEL, THE ARROWS AND "ONLY" MARKING MAY BE ELIMINATED.

➡ DIRECTION OF TRAFFIC

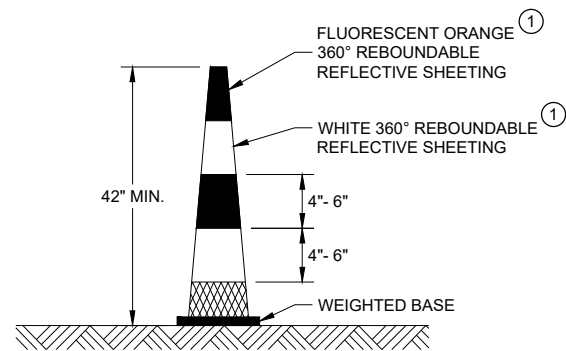
**L** = LENGTH OF TURN BAY

**PAVEMENT MARKING (TURN LANES)**

STATE OF WISCONSIN  
DEPARTMENT OF TRANSPORTATION



**DRUM**

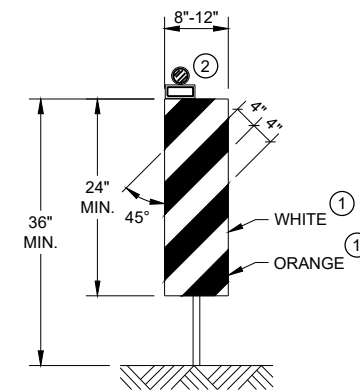


**42" CONE**

DO NOT USE IN TAPERS  
1/2 SPACING OF DRUMS

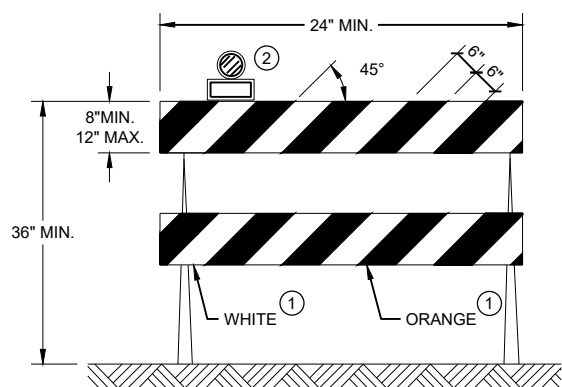
**GENERAL NOTES**

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



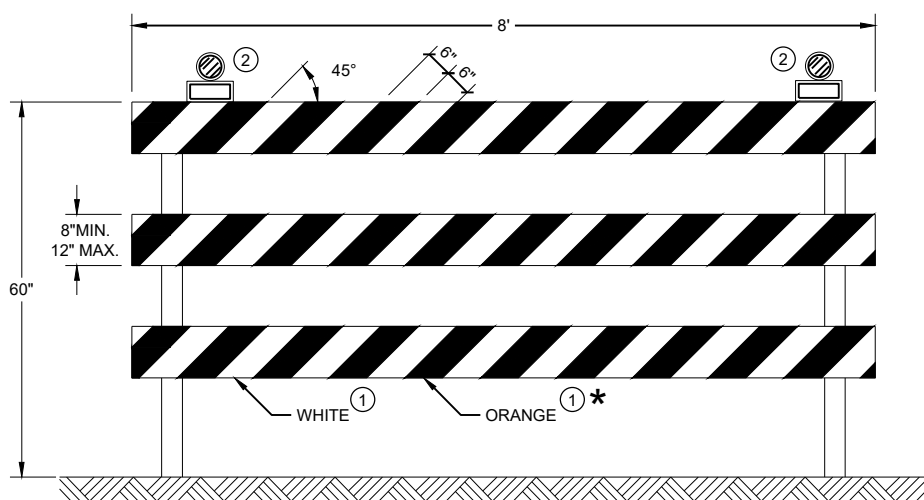
**VERTICAL PANEL**

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



**TYPE II BARRICADE**

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



**TYPE III BARRICADE**

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






\* IF USED FOR A PERMANENT APPLICATION USE RED SHEETING.

**CHANNELIZING DEVICES  
DRUMS, CONES, BARRICADES  
AND VERTICAL PANELS**

STATE OF WISCONSIN  
DEPARTMENT OF TRANSPORTATION

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

**LEGEND**

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

**GENERAL NOTES**

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

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

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

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

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

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

**FLAGGING**

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

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

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

**TEMPORARY PORTABLE RUMBLE STRIPS**

UTILIZE TEMPORARY PORTABLE RUMBLE STRIPS ON ALL FLAGGING OPERATIONS.

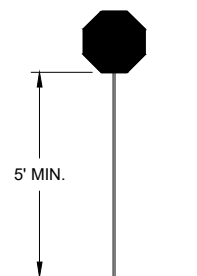
- ③ EACH TEMPORARY PORTABLE RUMBLE STRIP ARRAY CONSISTS OF THREE RUMBLE STRIPS PLACED TRANSVERSE ACROSS THE LANE AT THE LOCATIONS SHOWN. WITHIN EACH ARRAY, SPACING BETWEEN RUMBLE STRIPS SHALL BE 15 FEET ON CENTER

ONLY USE TEMPORARY PORTABLE RUMBLE STRIPS FROM THE APPROVED PRODUCTS LIST.

INSTALL TEMPORARY RUMBLE STRIPS PER MANUFACTURER'S RECOMMENDATIONS.

PLACE ADVANCE SIGNING PRIOR TO INSTALLING TEMPORARY RUMBLE STRIPS.

DO NOT INSTALL TEMPORARY PORTABLE RUMBLE STRIPS ON GRAVEL, MILLED SURFACES, OR ASPHALT THAT HAS BEEN PAVED LESS THAN 12 HOURS.



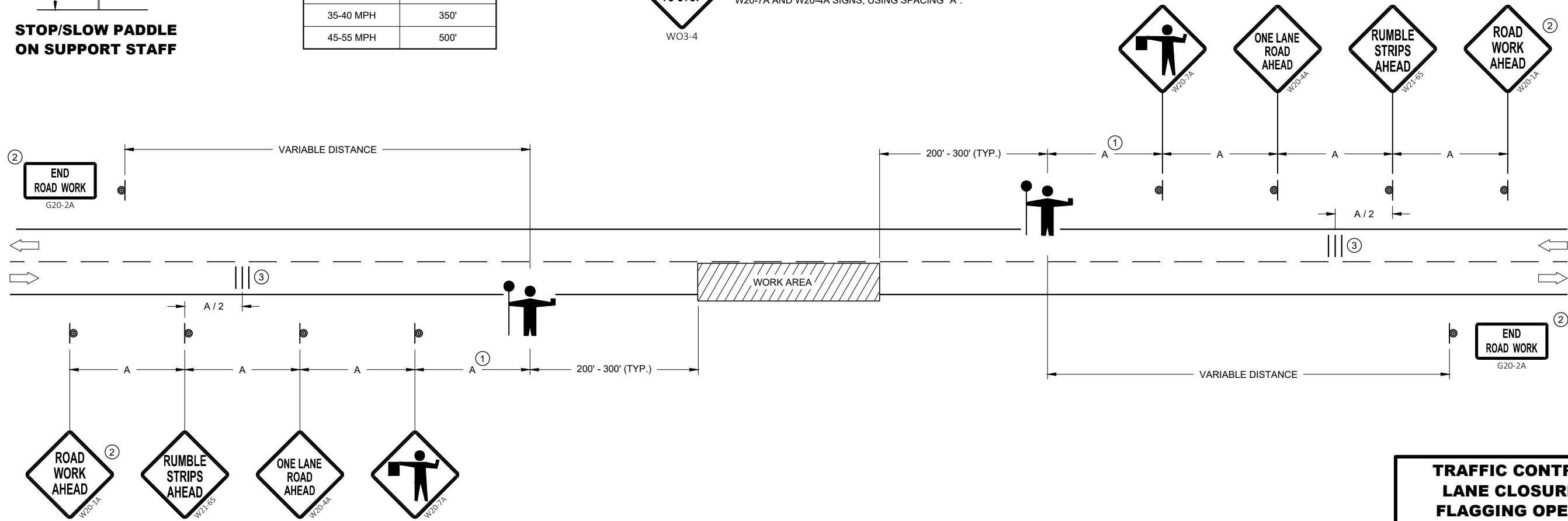
**STOP/SLOW PADDLE ON SUPPORT STAFF**

**SIGN AND TEMPORARY RUMBLE STRIP ARRAY SPACING TABLE**

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



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



**TRAFFIC CONTROL FOR LANE CLOSURE WITH FLAGGING OPERATION**

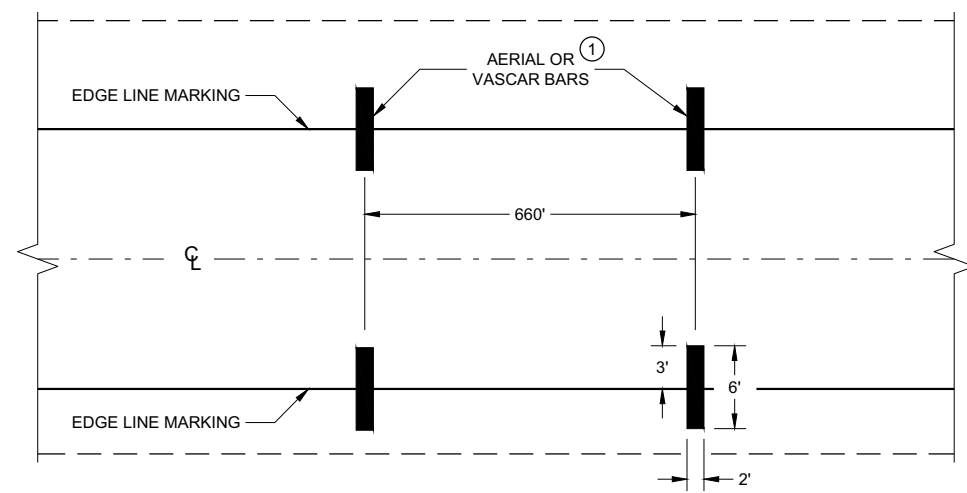
STATE OF WISCONSIN  
DEPARTMENT OF TRANSPORTATION

APPROVED  
DATE: May 2022 /S/ Andrew Heidtke  
WORK ZONE ENGINEER

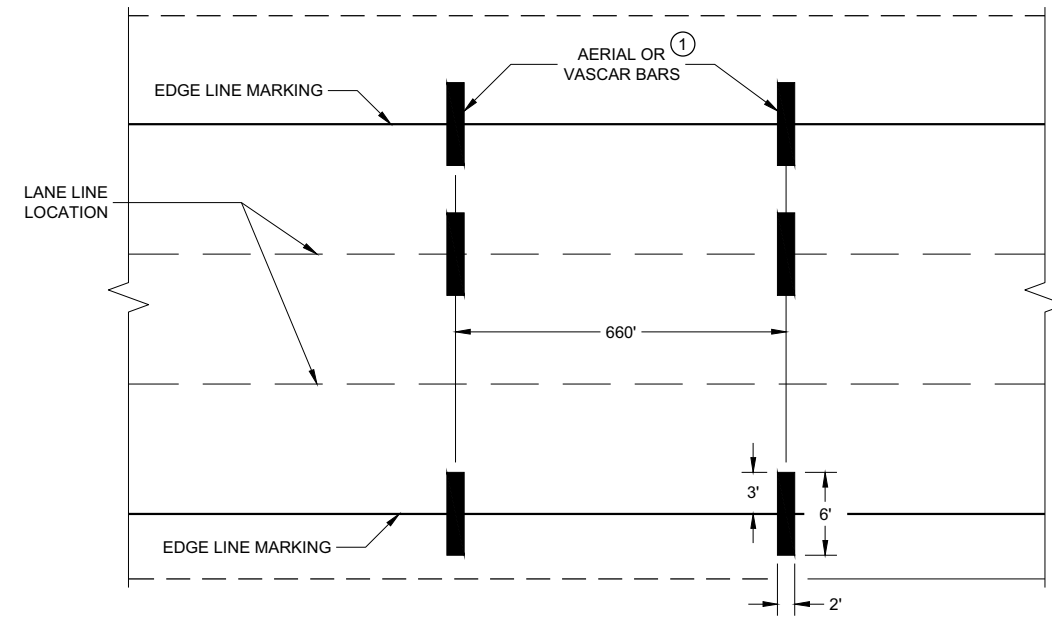
**GENERAL NOTES**

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

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



**TYPICAL FOR TWO WAY OR ONE WAY TRAFFIC**



**TYPICAL FOR MULTILANE TRAFFIC**

**SPEED ENFORCEMENT ZONE WITH AERIAL OR VASCAR BARS**

6

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SDD 15C14 - 04

SDD 15C14 - 04

**AERIAL ENFORCEMENT BARS  
PAVEMENT MARKING DETAILS**

STATE OF WISCONSIN  
DEPARTMENT OF TRANSPORTATION

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

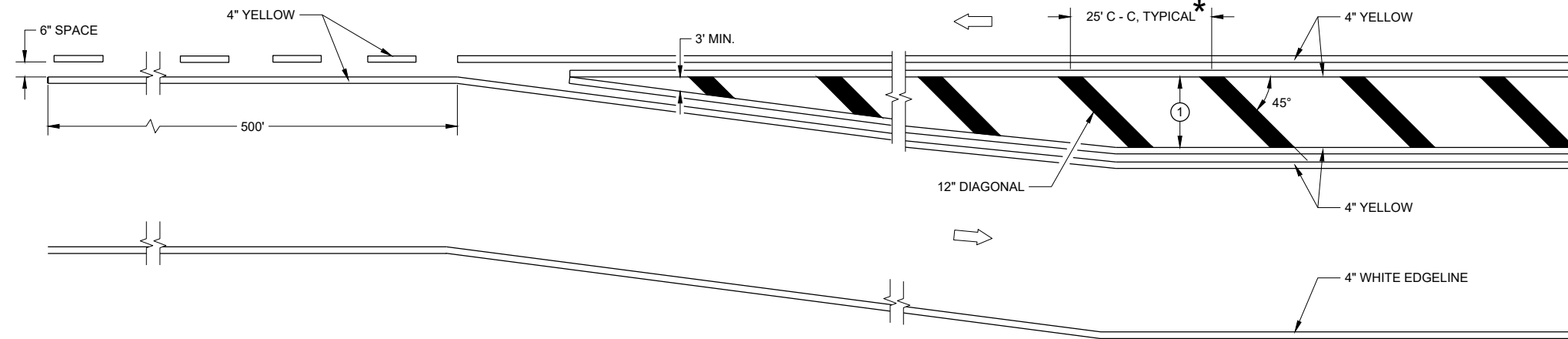
FHWA

**GENERAL NOTES**

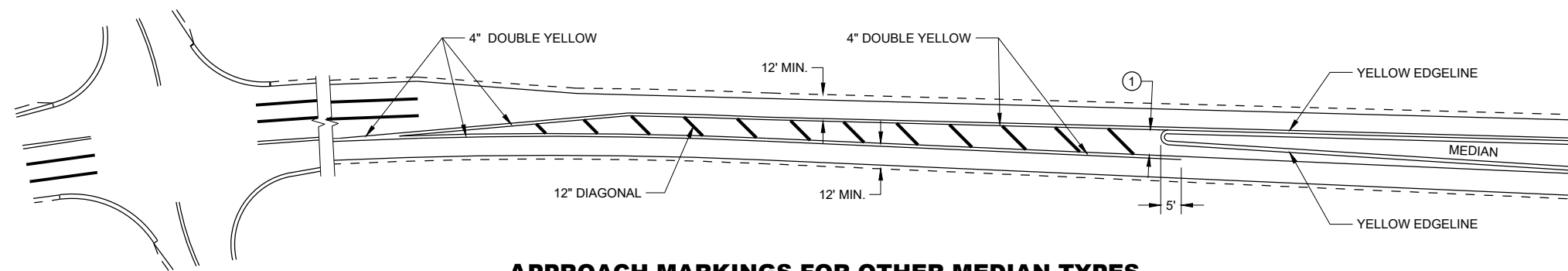
- ① DIAGONALS ARE OPTIONAL WHEN PAINTED ISLAND IS LESS THAN 6 FEET AT THE WIDEST POINT. OMIT DIAGONALS IF WIDTH IS LESS THAN 4 FEET.

➡ DIRECTION OF TRAVEL

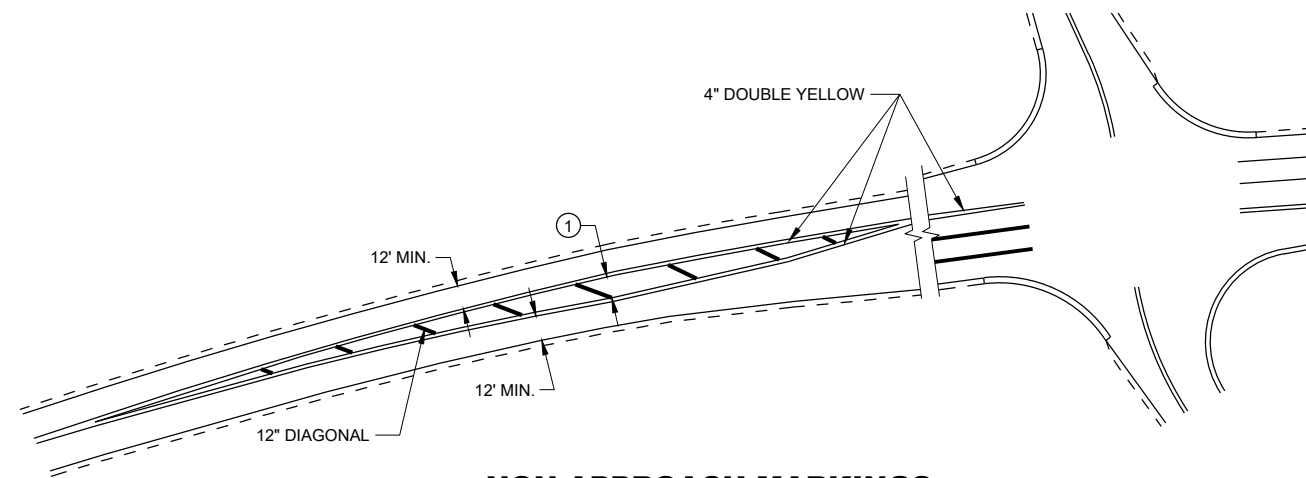
\* WHEN THE PAINTED MEDIAN LENGTH IS LESS THAN 50 FEET THE SPACING IS 10'.



**MEDIAN ISLAND DETAIL**



**APPROACH MARKINGS FOR OTHER MEDIAN TYPES**



**NON-APPROACH MARKINGS**

6

6

SDD 15C18 - 06a

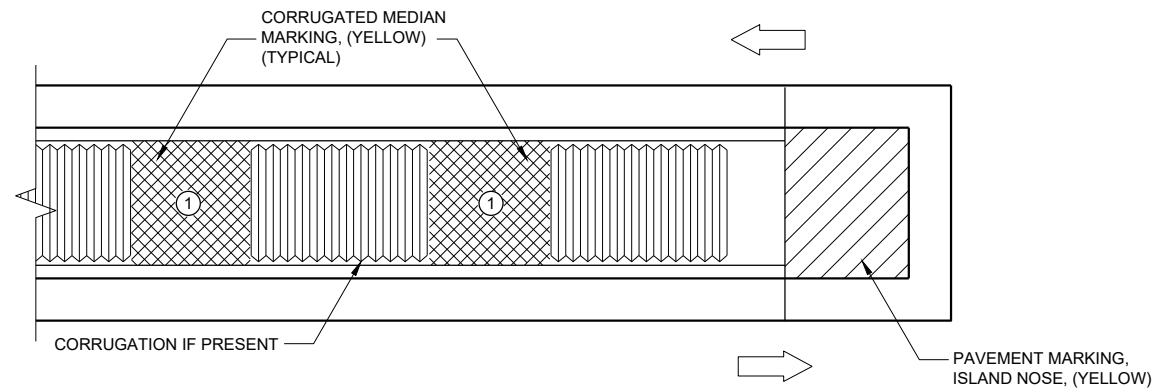
SDD 15C18 - 06a

**MEDIAN ISLAND  
PAVEMENT MARKINGS**

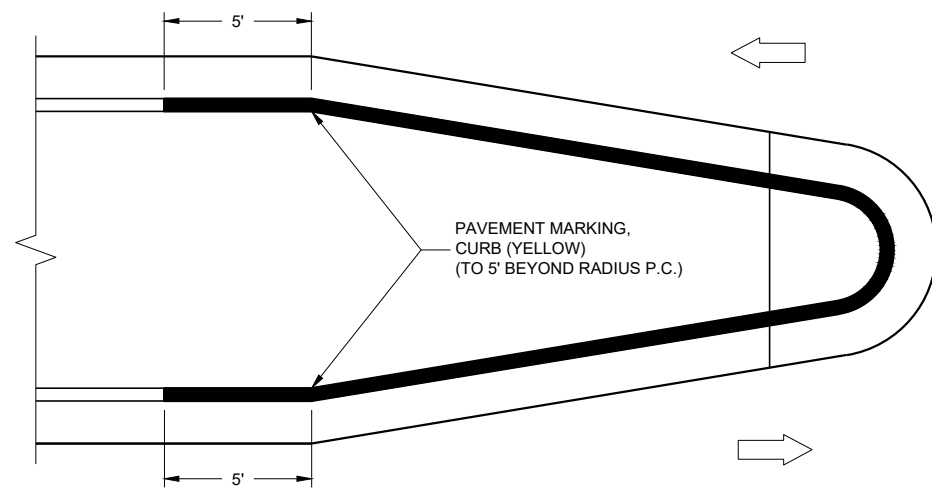
STATE OF WISCONSIN  
DEPARTMENT OF TRANSPORTATION

APPROVED  
May 2022 DATE /S/ Jeannie Silver  
STATE SIGNING AND MARKING  
ENGINEER

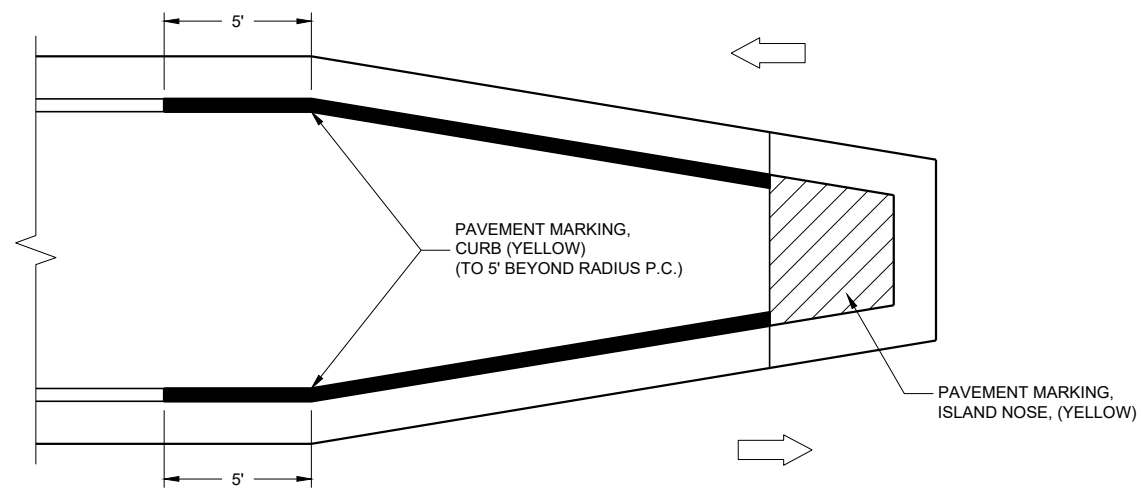
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**MEDIAN ISLAND WITH SQUARE BLUNT NOSE**



**MEDIAN ISLAND WITH ROUND BLUNT NOSE**



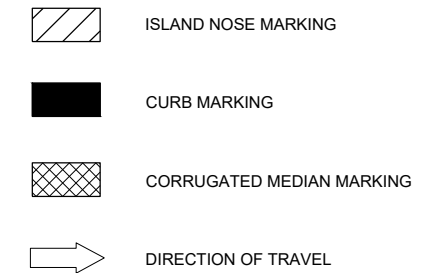
**MEDIAN ISLAND WITH SLOPED NOSE**

**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.



<b>PAVEMENT MARKINGS, MEDIAN ISLAND NOSE</b>	
STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION	
APPROVED May 2022 DATE	/S/ Jeannie Silver STATE SIGNING AND MARKING ENGINEER
<small>FHWA</small>	

**LEGEND**

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

**GENERAL NOTES**

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

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

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

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

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

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

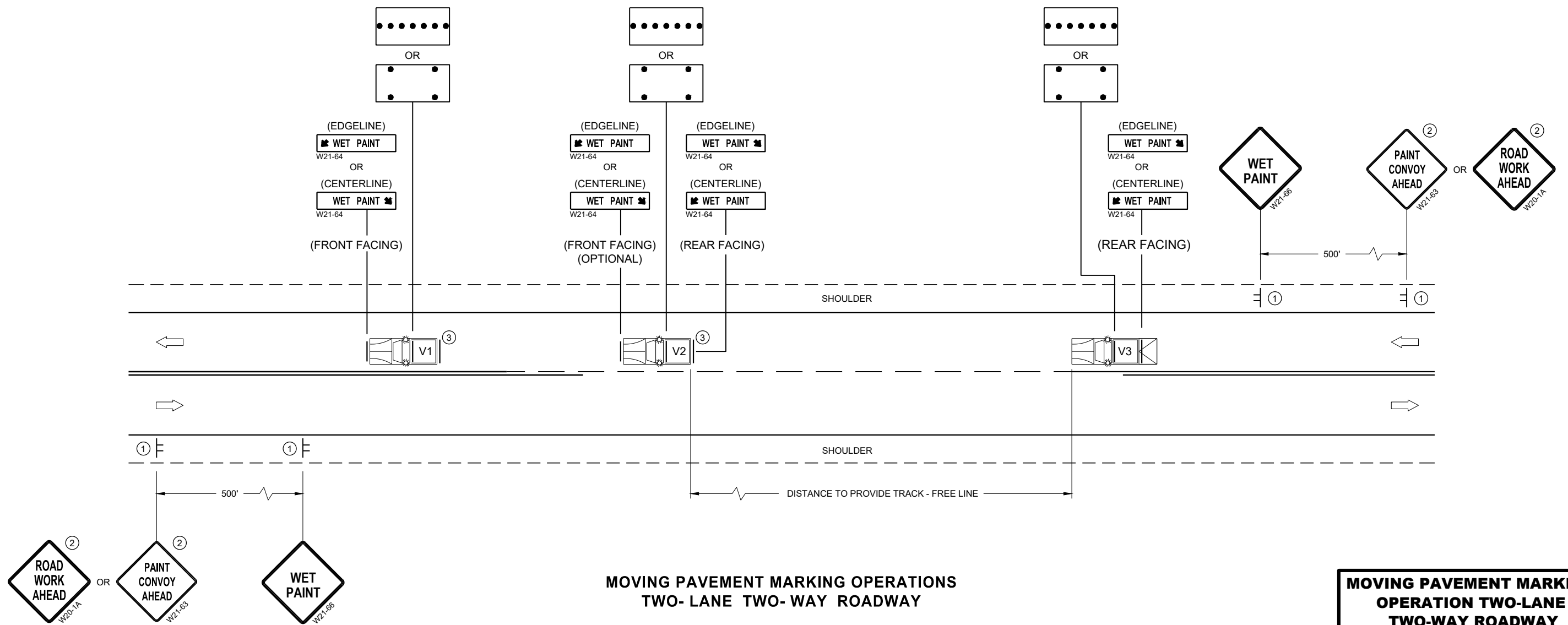
CONES SHOULD BE USED BETWEEN THE MARKING AND SHADOW VEHICLE AT 100 FOOT SPACING. CONES MAY BE OMITTED ON PAINTED LINE IF APPROVED BY THE ENGINEER. CONSIDER PAVEMENT MARKING DRY OR CURE TIMES AND TRAFFIC VOLUME.

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

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

6

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**MOVING PAVEMENT MARKING OPERATIONS  
TWO-LANE TWO-WAY ROADWAY**






SDD 15C19 - 07a

SDD 15C19 - 07a

<b>MOVING PAVEMENT MARKING OPERATION TWO-LANE TWO-WAY ROADWAY</b>	
STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION	
APPROVED May 2022 DATE	/S/ Andrew Heidtke WORK ZONE ENGINEER
FHWA	



**LEGEND**

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

**GENERAL NOTES**

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

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

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

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

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

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

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

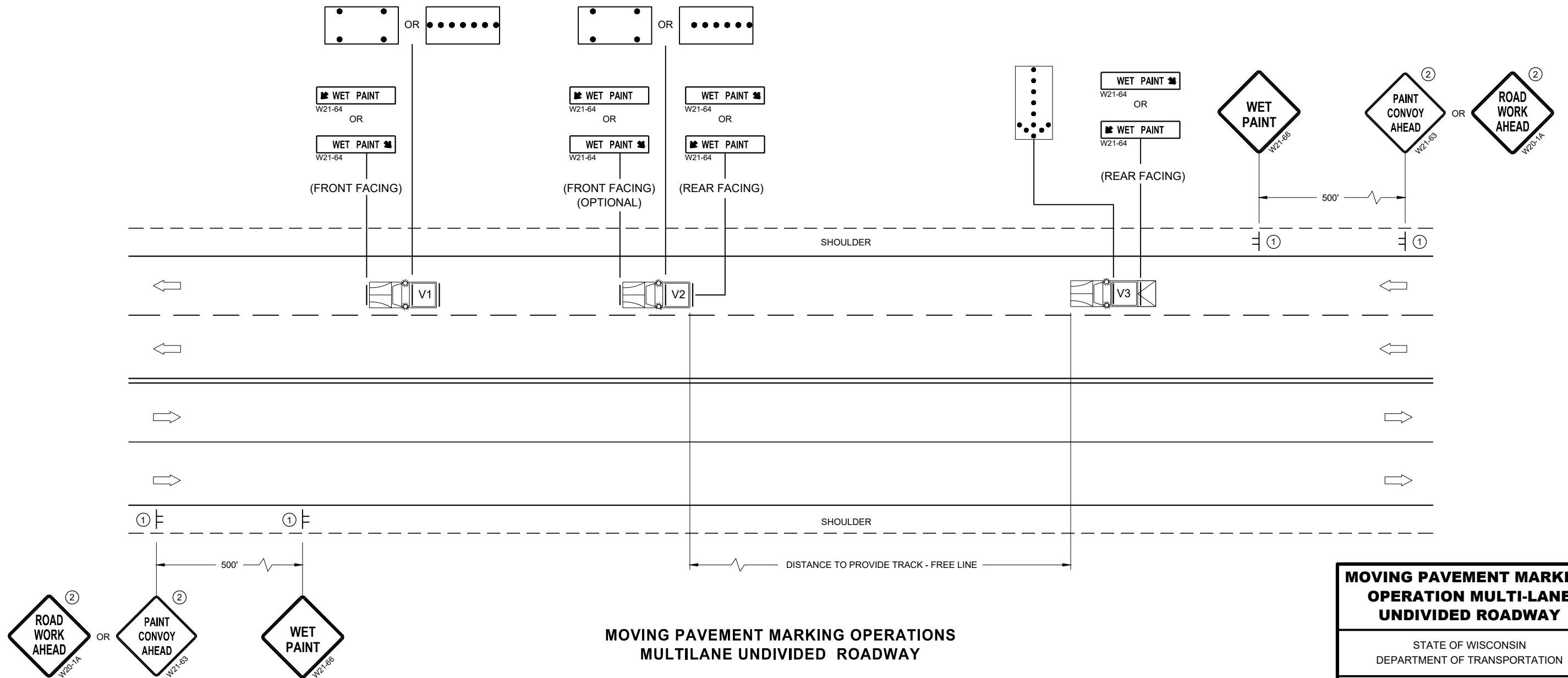
CONES SHOULD BE USED BETWEEN THE MARKING AND SHADOW VEHICLES AT 100 FOOT SPACING. CONES MAY BE OMITTED ON PAINTED LINE IF APPROVED BY THE ENGINEER. CONSIDER PAVEMENT MARKING DRY OR CURE TIMES AND TRAFFIC VOLUME.

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

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

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



**MOVING PAVEMENT MARKING OPERATIONS  
MULTILANE UNDIVIDED ROADWAY**

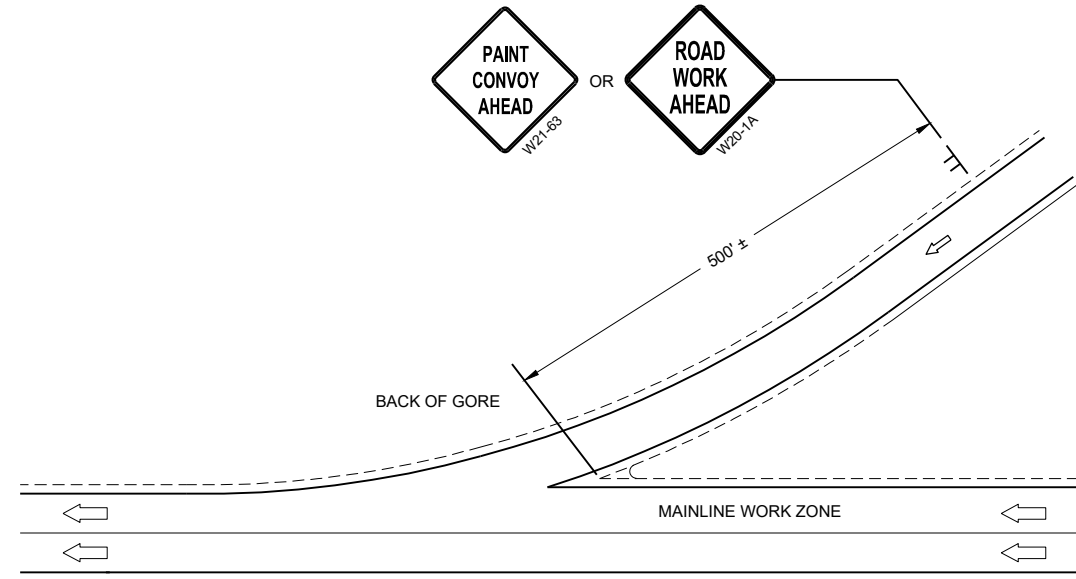
<b>MOVING PAVEMENT MARKING OPERATION MULTI-LANE UNDIVIDED ROADWAY</b>	
STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION	
APPROVED May 2022 DATE	/S/ Andrew Heidtke WORK ZONE ENGINEER
FHWA	

SDD 15C19 - 07b

SDD 15C19 - 07b

**LEGEND**

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



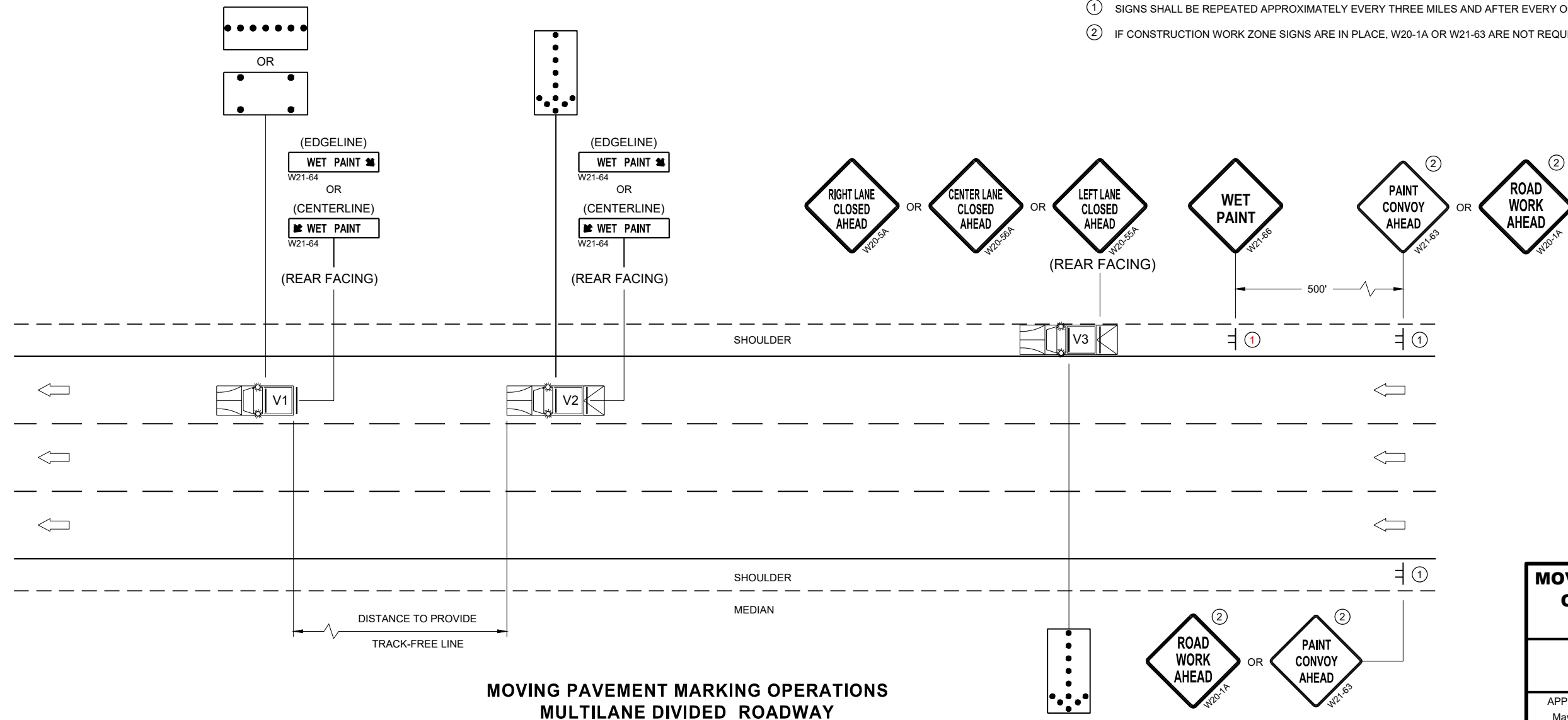
**GENERAL NOTES**

- ALL VEHICLES SHALL BE EQUIPPED WITH TWO 360 DEGREE HIGH INTENSITY YELLOW FLASHING LIGHTS OR STROBE LIGHTS AND OPERATED WITH HEADLIGHTS TURNED ON.
- ALL VEHICLES SHALL BE EQUIPPED WITH REAR FACING TYPE B OR C FLASHING ARROW PANEL. SIGNS PLACED ON VEHICLES MUST NOT OBSCURE THE ARROW PANEL.
- ALL SIGNS ARE 48" X 48" UNLESS OTHERWISE SPECIFIED.
- DISTANCE BETWEEN VEHICLES MAY VARY ACCORDING TO TERRAIN, SIGHT DISTANCE, PAINT DRYING TIME, AND OTHER FACTORS. WHENEVER ADEQUATE STOPPING SIGHT DISTANCE EXISTS TO THE REAR, SHADOW VEHICLES SHOULD MAINTAIN THE MINIMUM DISTANCE FROM THE WORK VEHICLE AND PROCEED AT THE SAME SPEED AS THE WORK VEHICLE. SHADOW VEHICLES SHOULD SLOW DOWN IN ADVANCE OF VERTICAL AND HORIZONTAL CURVES THAT RESTRICT SIGHT DISTANCE.
- WHEN WORK ACTIVITY BLOCKS THE LEFT LANE, REVERSE TRAFFIC CONTROL.
- WHEN A RAMP INTERSECTS THE FACILITY ON WHICH THE WORK IS BEING PERFORMED, PROVIDE ADDITIONAL TRAFFIC CONTROLS AS SPECIFIED IN THE CONTRACT OR AS APPROVED BY THE ENGINEER.
- USE AN ATTENUATOR ON THE REAR MOST VEHICLE THAT BLOCKS ALL OR PART OF THE TRAFFIC LANE.
- IF THE SHOULDER IS TOO NARROW TO ACCOMMODATE THE LAST TRAILING VEHICLE, THE VEHICLE SHOULD STRADDLE THE EDGE LINE.
- WHEN NO WORK ACTIVITY IS TAKING PLACE, REMOVE OR LAY STATIONARY SIGNS AND SUPPORTS FLAT ON THE GRADE WITH UPRIGHTS ORIENTED PARALLEL TO AND DOWNSTREAM FROM TRAFFIC
- CONES SHOULD BE USED BETWEEN THE MARKING AND SHADOW VEHICLE AT 100 FOOT SPACING. CONES MAY BE OMITTED ON PAINTED LINE IF APPROVED BY THE ENGINEER. CONSIDER PAVEMENT MARKING DRY OR CURE TIMES AND TRAFFIC VOLUME.
- CONES SHALL BE A MINIMUM HEIGHT OF 28" FOR WET PAVEMENT MARKINGS

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

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SDD 15C19 - 07C

SDD 15C19 - 07C

**MOVING PAVEMENT MARKING OPERATIONS  
MULTILANE DIVIDED ROADWAY**

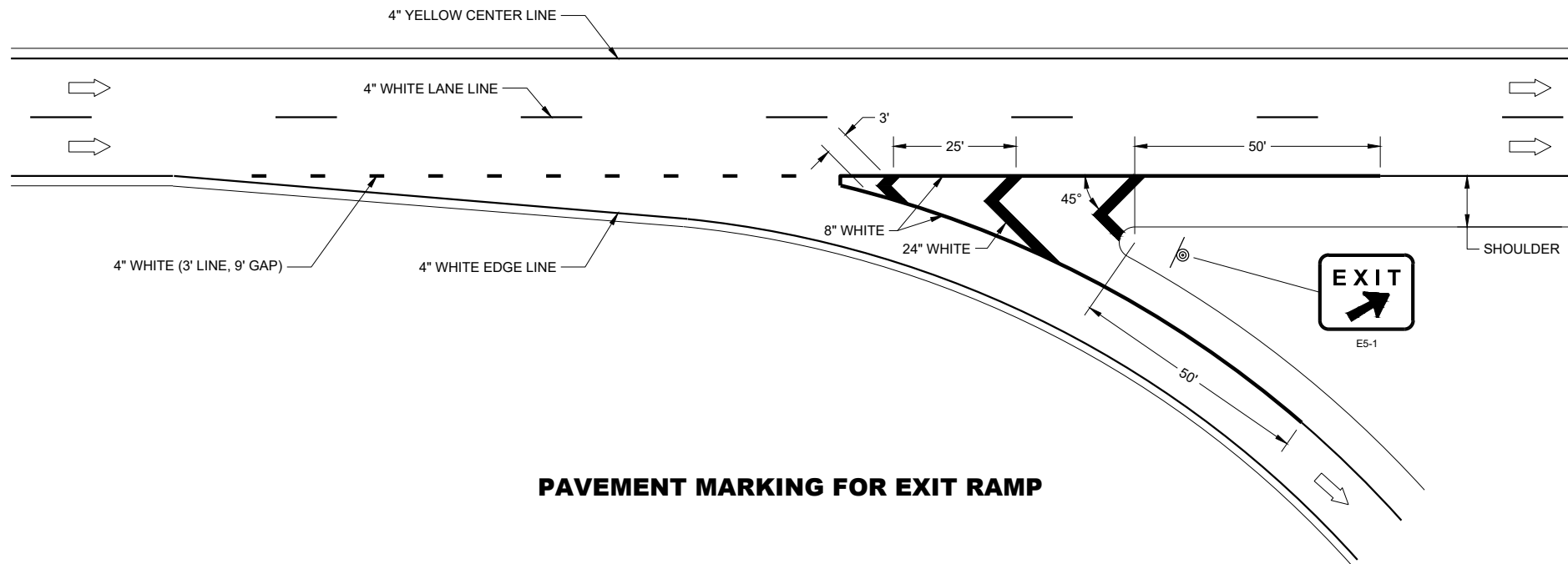
<b>MOVING PAVEMENT MARKING OPERATION MULTI-LANE DIVIDED ROADWAY</b>	
STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION	
APPROVED May 2022 DATE	/S/ Andrew Heidtke WORK ZONE ENGINEER
FHWA	

**GENERAL NOTES**

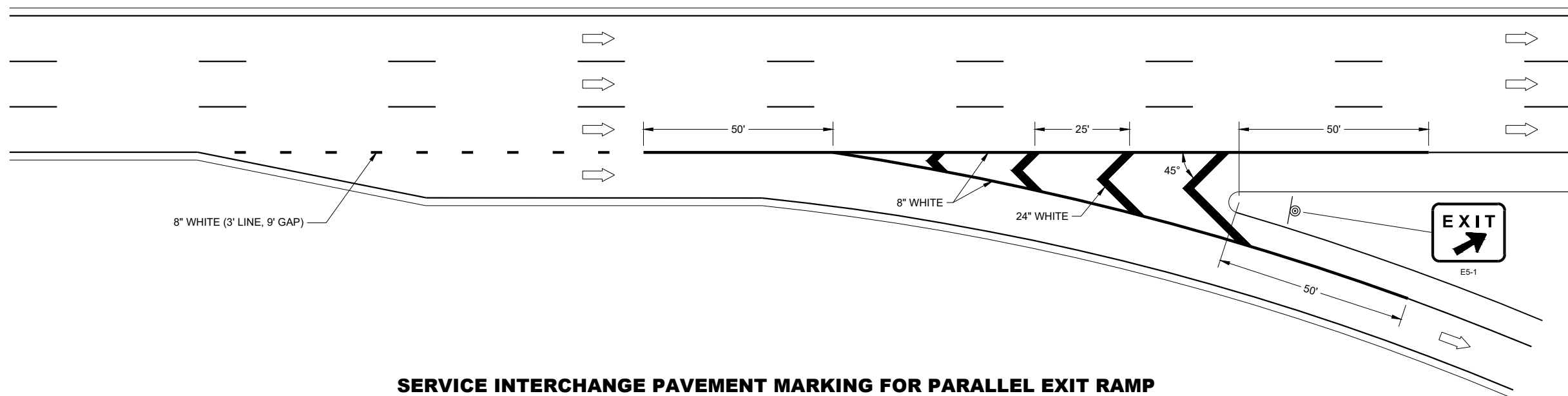
PLACE GROOVE 3 INCHES LEFT OF JOINT.

**LEGEND**

- ⊙ SIGN ON PERMANENT SUPPORT
- ➡ DIRECTION OF TRAVEL



**PAVEMENT MARKING FOR EXIT RAMP**



**SERVICE INTERCHANGE PAVEMENT MARKING FOR PARALLEL EXIT RAMP**

**PAVEMENT MARKING,  
EXIT RAMP AND  
PARALLEL EXIT RAMP**

STATE OF WISCONSIN  
DEPARTMENT OF TRANSPORTATION

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
SDD 15C31 - 04a

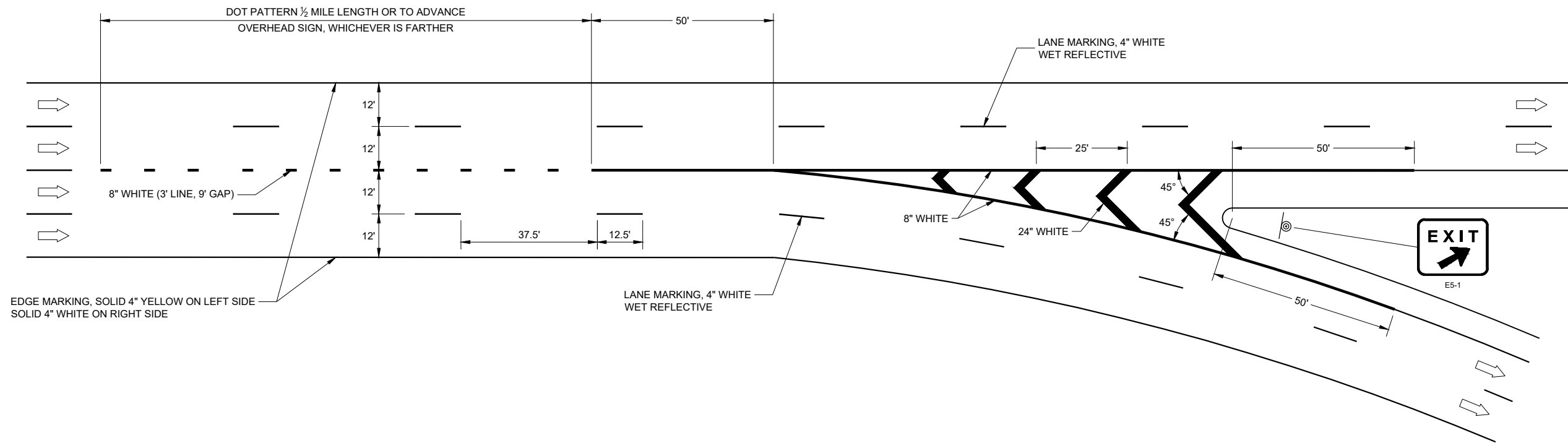
SDD 15C31 - 04a

**GENERAL NOTES**

PLACE GROOVE 3 INCHES LEFT OF JOINT.

**LEGEND**

-  SIGN ON PERMANENT SUPPORT
-  DIRECTION OF TRAVEL



6

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SDD 15C31 - 04b

SDD 15C31 - 04b

**PAVEMENT MARKING,  
MAJOR SPLIT  
FREEWAY TO FREEWAY**

STATE OF WISCONSIN  
DEPARTMENT OF TRANSPORTATION

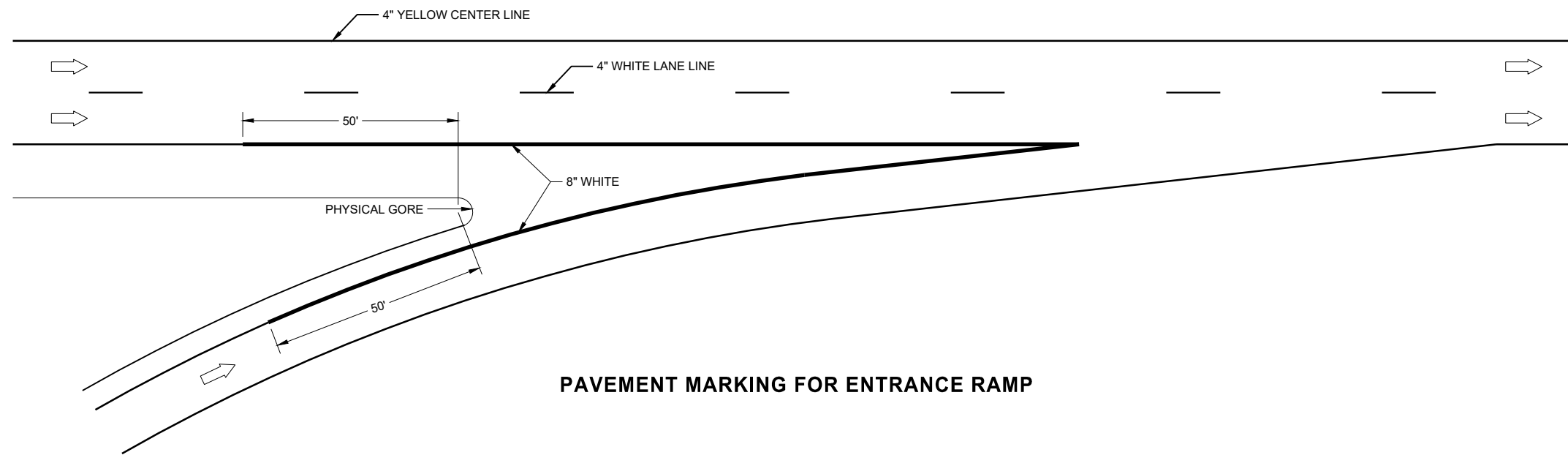
**GENERAL NOTES**

PLACE GROOVE 3 INCHES LEFT OF JOINT.

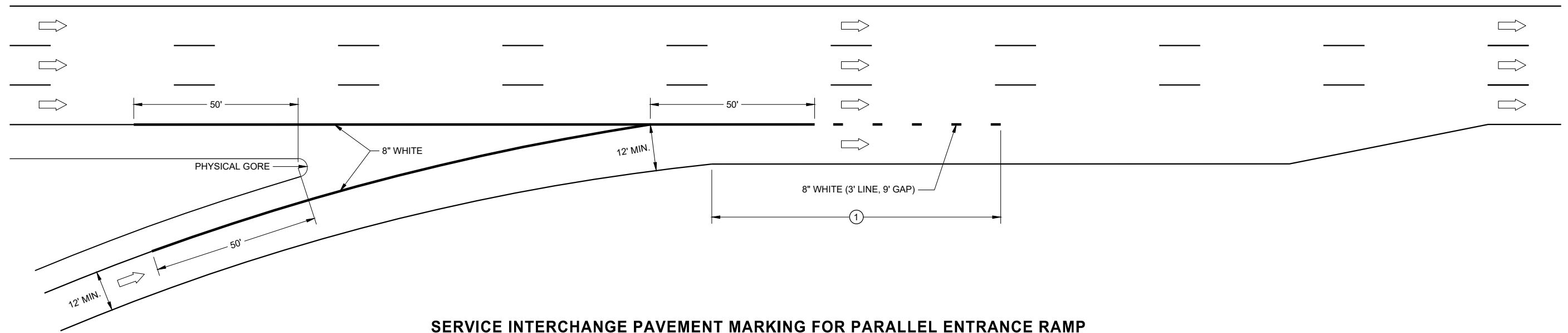
① ½ LENGTH OF FULL WIDTH ACCELERATION LANE.

**LEGEND**

➡ DIRECTION OF TRAVEL



**PAVEMENT MARKING FOR ENTRANCE RAMP**



**SERVICE INTERCHANGE PAVEMENT MARKING FOR PARALLEL ENTRANCE RAMP**

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SDD 14C31 - 04c

SDD 14C31 - 04c

**PAVEMENT MARKING,  
ENTRANCE RAMP AND  
PARALLEL ENTRANCE RAMP**

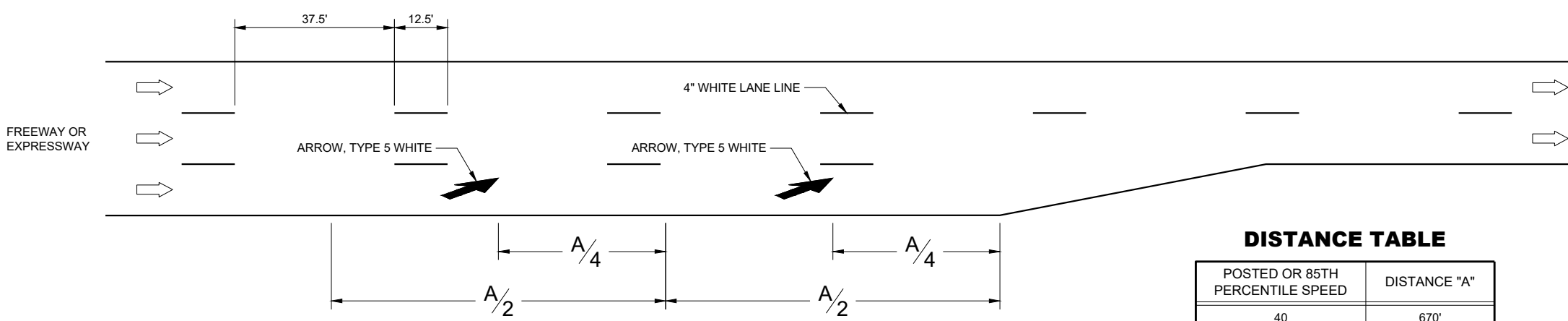
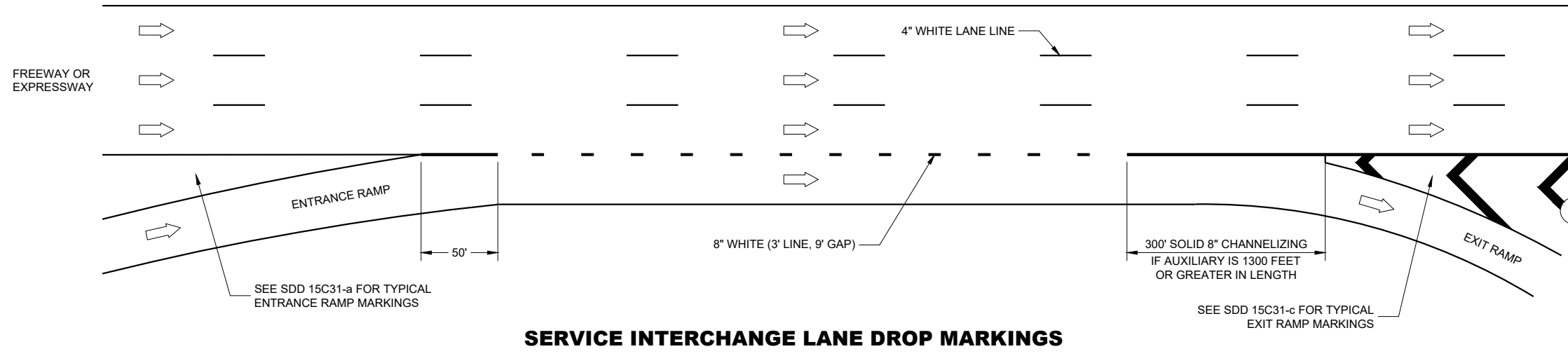
STATE OF WISCONSIN  
DEPARTMENT OF TRANSPORTATION

**LEGEND**

➡ DIRECTION OF TRAVEL

**GENERAL NOTES**

PLACE GROOVE 3 INCHES LEFT OF JOINT.



**DISTANCE TABLE**

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

**PAVEMENT MARKING,  
LANE DROP AND  
LANE REDUCTION**

STATE OF WISCONSIN  
DEPARTMENT OF TRANSPORTATION

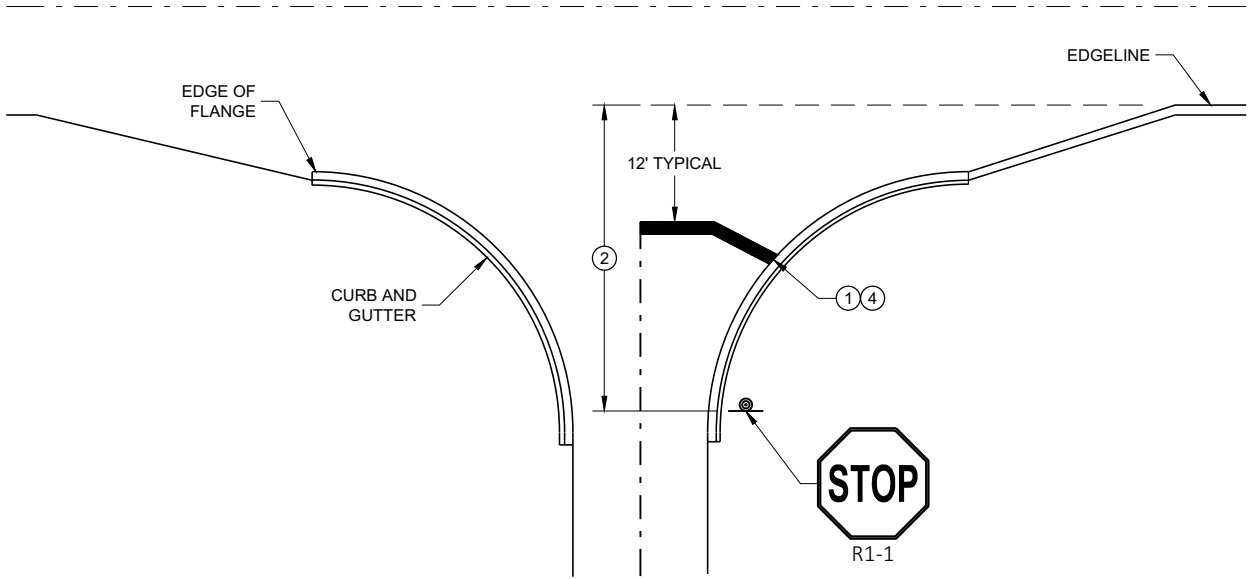
APPROVED  
May 2021 /S/ Matthew Rauch  
DATE STATE MARKING AND SIGNING  
ENGINEER

FHWA

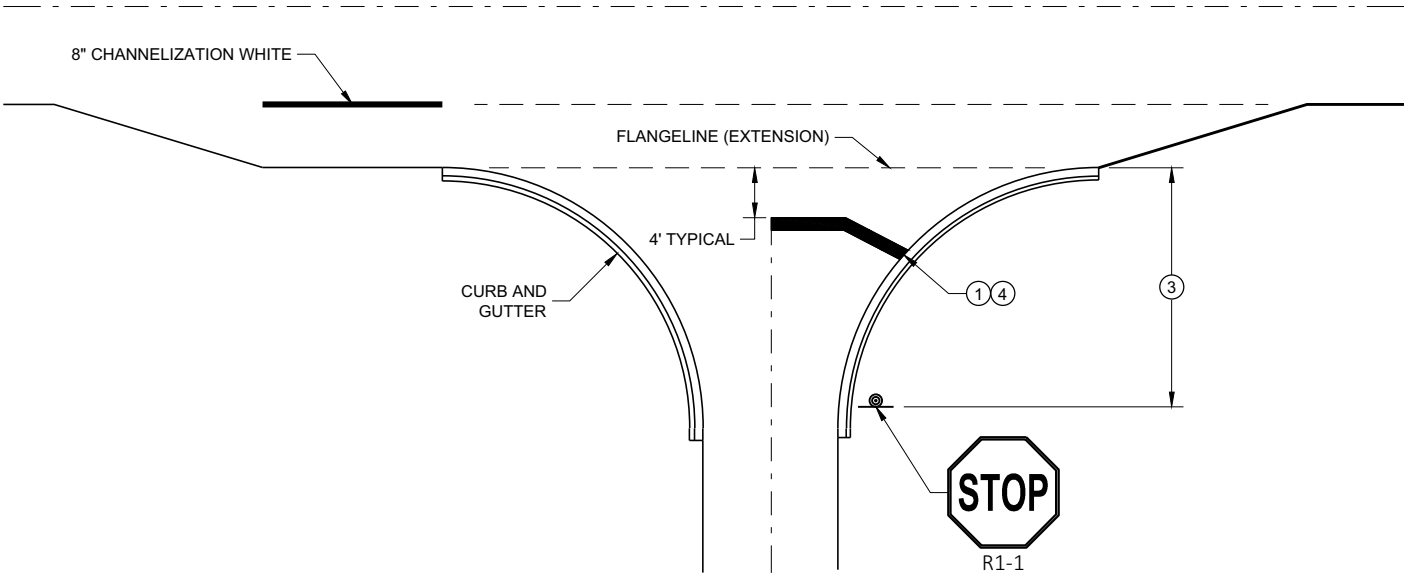
**GENERAL NOTES**

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

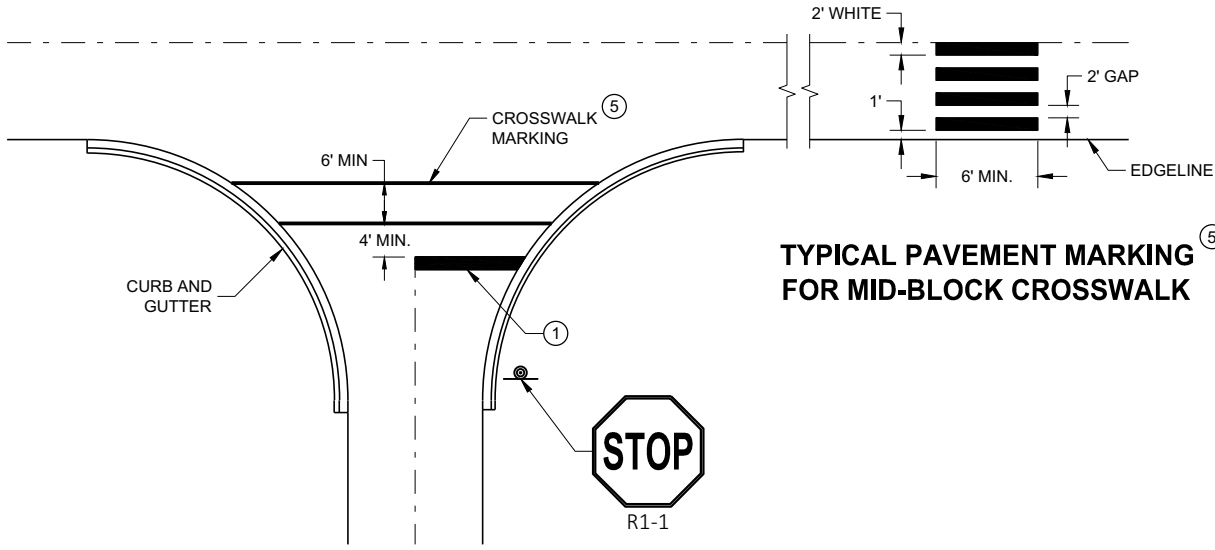
- ① 18-INCH STOP LINES MAY BE DELETED OR ADDED BY THE REGION MARKING ENGINEER BASED ON VISIBILITY AND SIGHT LINES.
- ② NO STOP LINE IS REQUIRED IF STOP SIGN IS LESS THAN OR EQUAL TO 40 FEET FROM THE EDGELINE.
- ③ NO STOP LINE IS REQUIRED IF STOP SIGN IS LESS THAN OR EQUAL TO 30 FEET FROM THE FLANGELINE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



**TYPICAL STOP LINE PAVEMENT MARKING WITH CURB AND GUTTER**

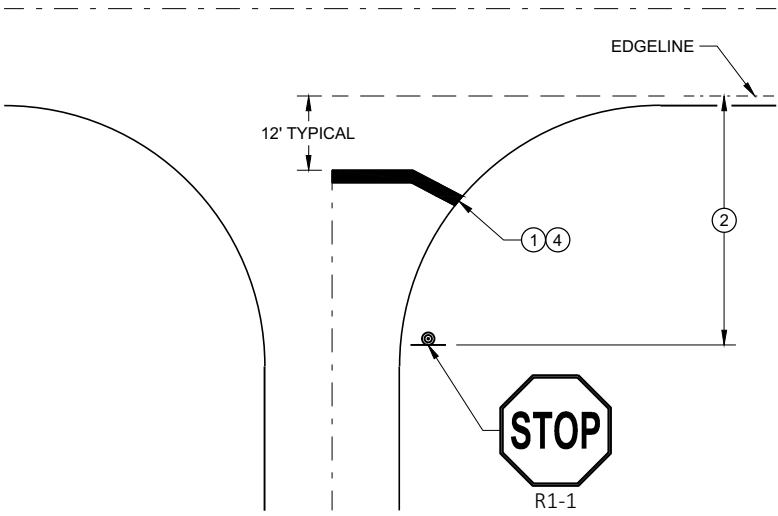


**TYPICAL STOP LINE PAVEMENT MARKING FOR SIDEROADS WITH RIGHT TURN LANE**



**TYPICAL STOP LINE PAVEMENT MARKING FOR SIDEROADS WITH CROSSWALK MARKING**

**TYPICAL PAVEMENT MARKING FOR MID-BLOCK CROSSWALK**



**TYPICAL STOP LINE PAVEMENT MARKING WITHOUT CURB AND GUTTER**

**STOP LINE AND CROSSWALK PAVEMENT MARKING**

STATE OF WISCONSIN  
DEPARTMENT OF TRANSPORTATION

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

FHWA

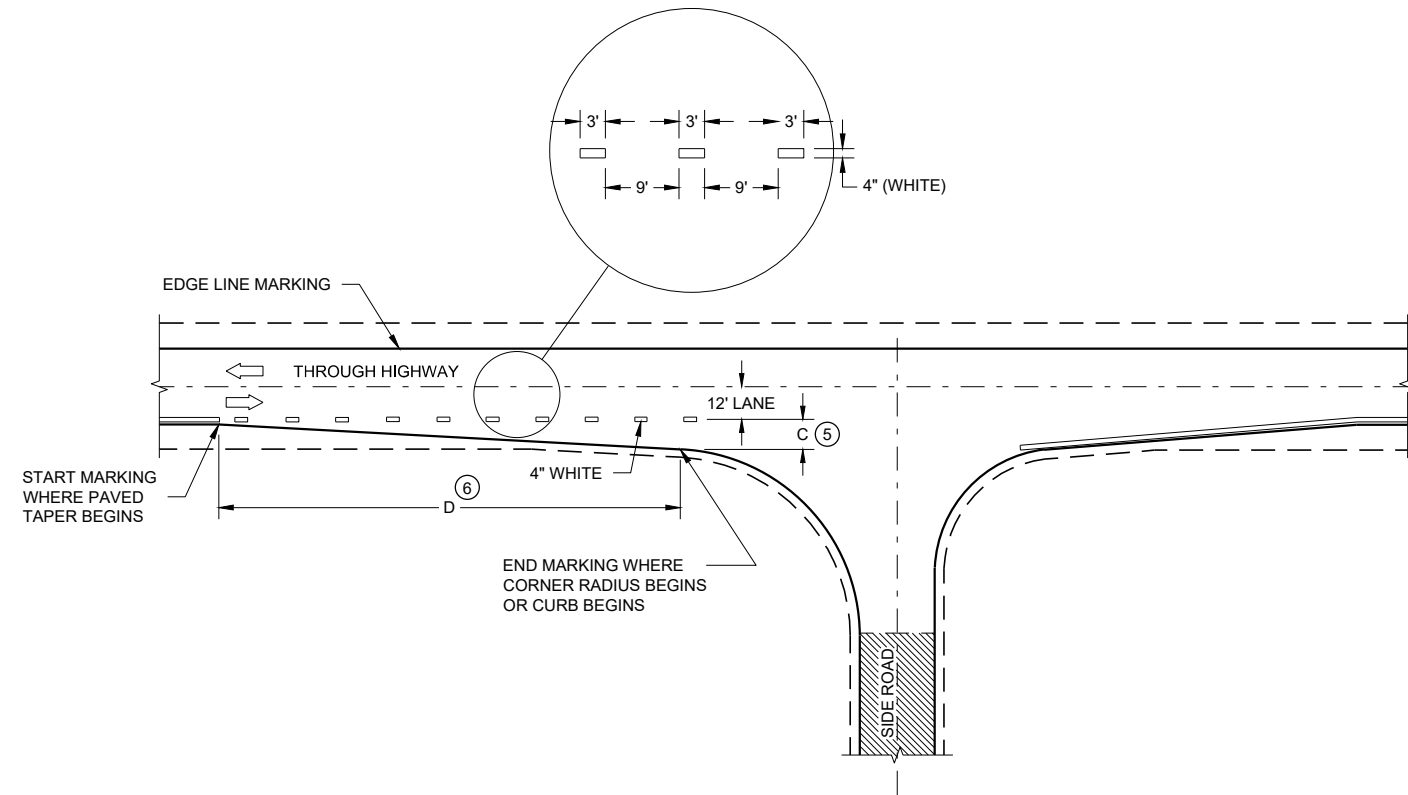
**GENERAL NOTES**

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

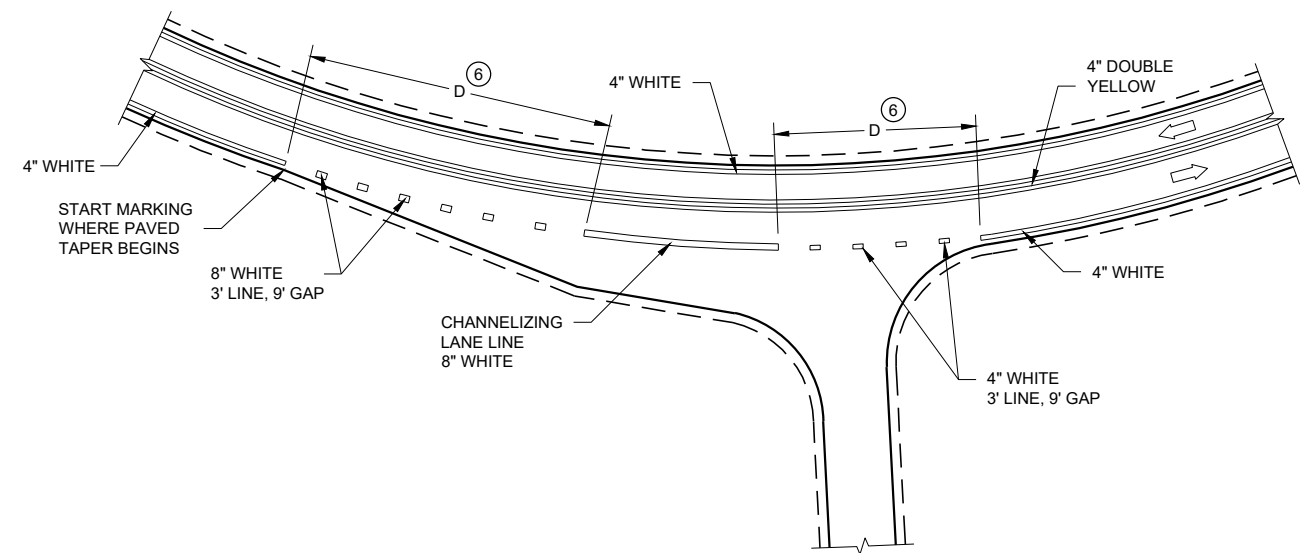
- ① WHEN DISTANCE "A" IS LESS THAN 250 FEET, OMIT LANE LINE.
- ② WHEN DISTANCE "B" IS LESS THAN 100 FEET, OMIT CHANNELIZING LANE LINE.
- ③ BARRIER LINE ENDS AT SIDE ROAD PAVEMENT / SURFACE EDGE EXTENSION.
- ④ BARRIER LINE STARTS 500 FEET PRIOR TO THE BYPASS TAPER.
- ⑤ WHEN DISTANCE "C" IS LESS THAN 4 FEET, OMIT DOTTED EXTENSION.
- ⑥ WHEN DISTANCE "D" IS LESS THAN 50 FEET, OMIT DOTTED EXTENSION.

**LEGEND**

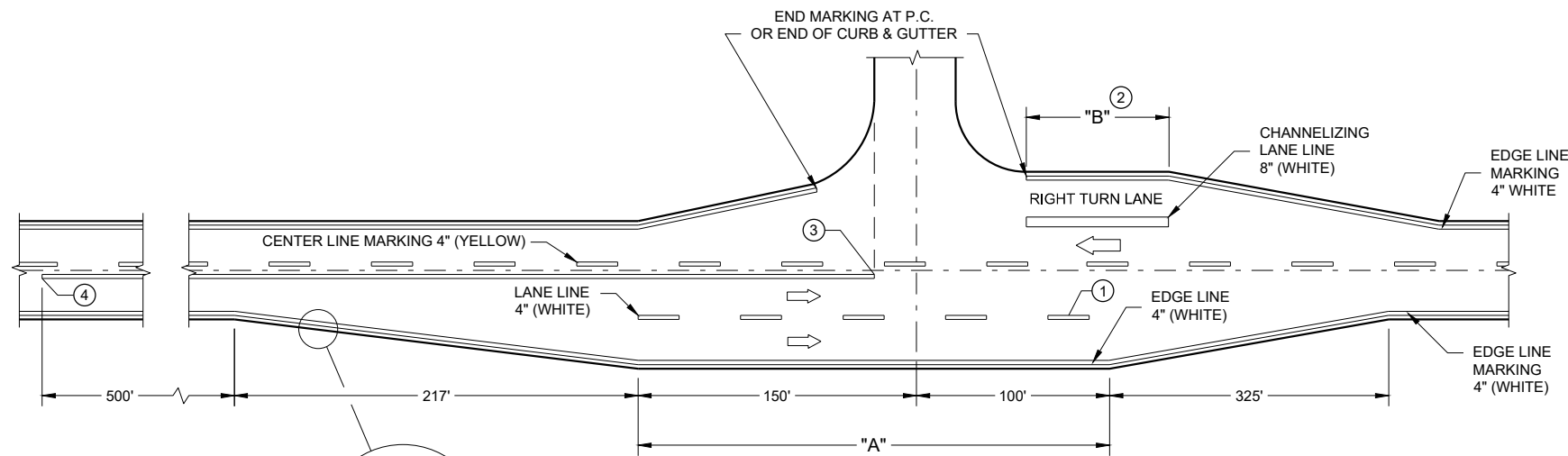
➡ DIRECTION OF TRAVEL



**MINOR INTERSECTION**

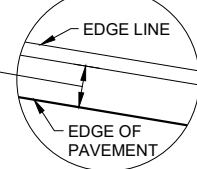


**INTERSECTION ON OUTSIDE OF CURVE**



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

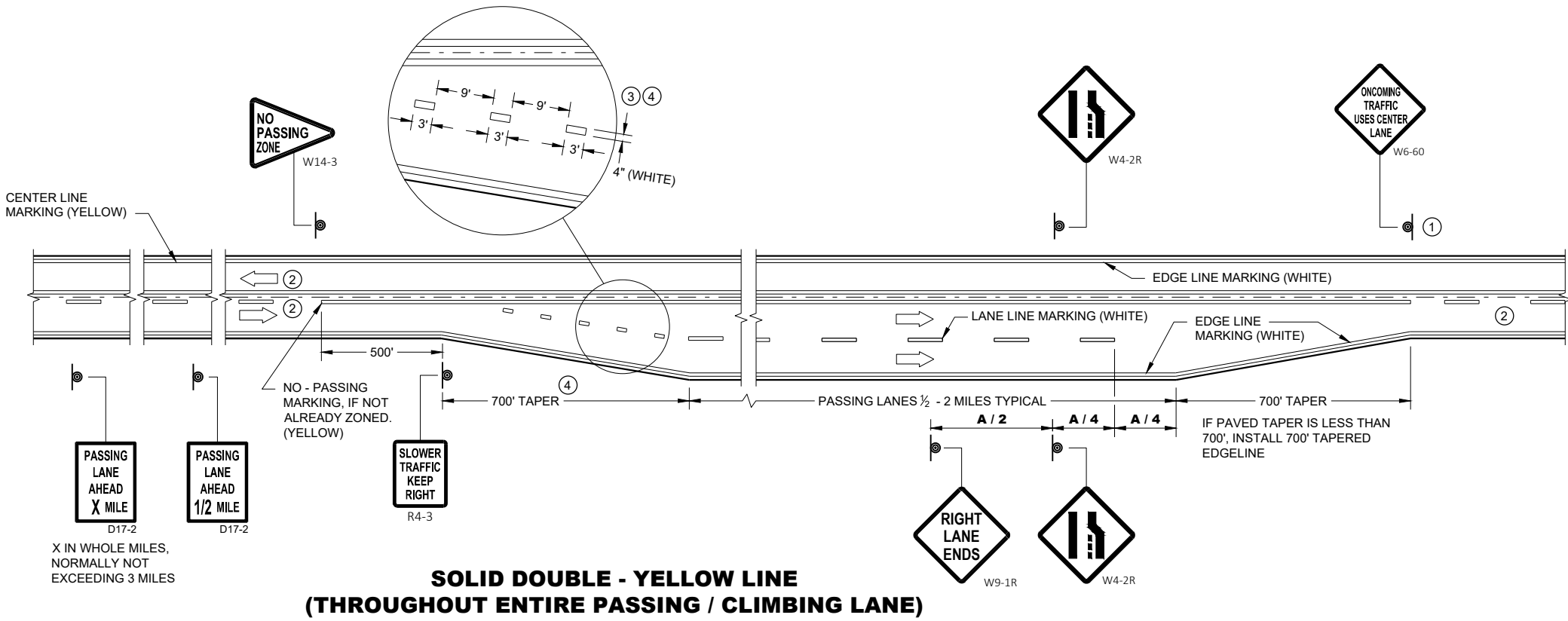
BYPASS LANE PAVED SHOULDER WIDTH (AS SHOWN ELSEWHERE IN PLANS) - PLUS 2 INCHES



**PAVEMENT MARKING  
(INTERSECTIONS)**

STATE OF WISCONSIN  
DEPARTMENT OF TRANSPORTATION





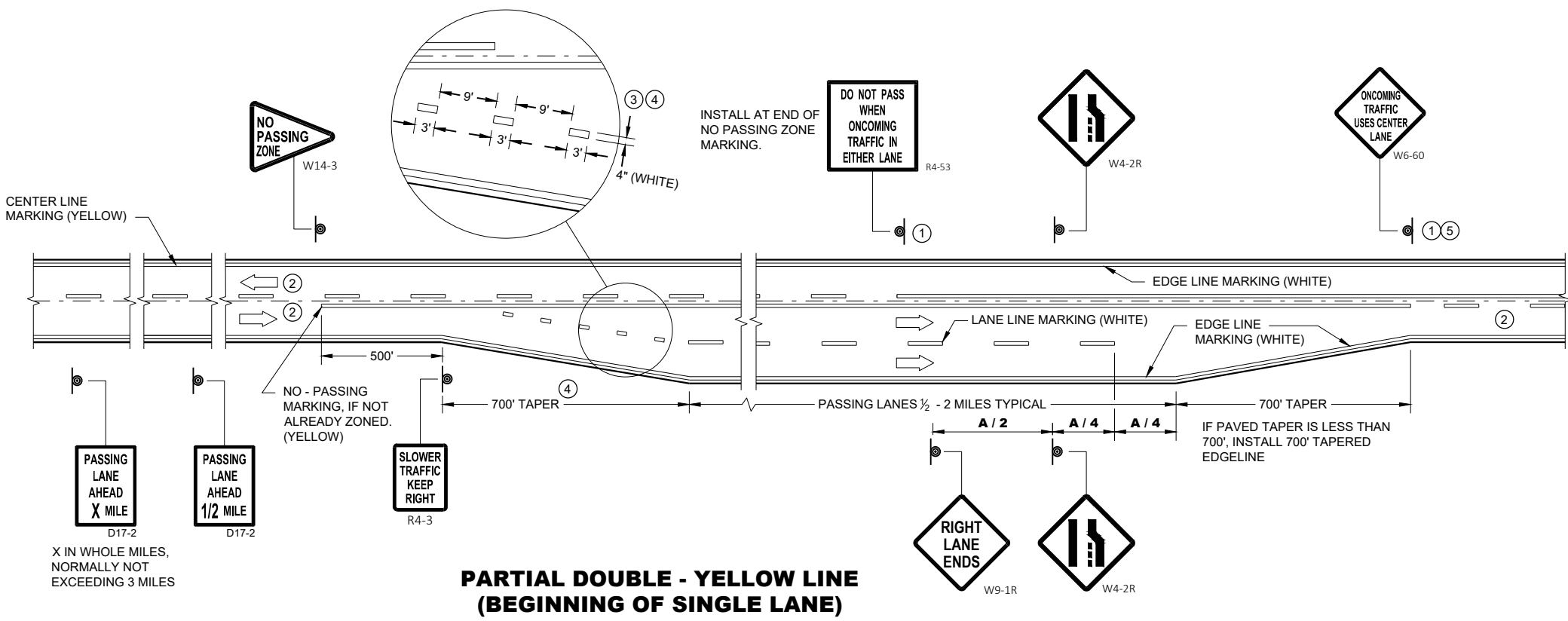
**GENERAL NOTES**

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

ARROW SYMBOL ( ) SHOWS DIRECTION OF TRAVEL

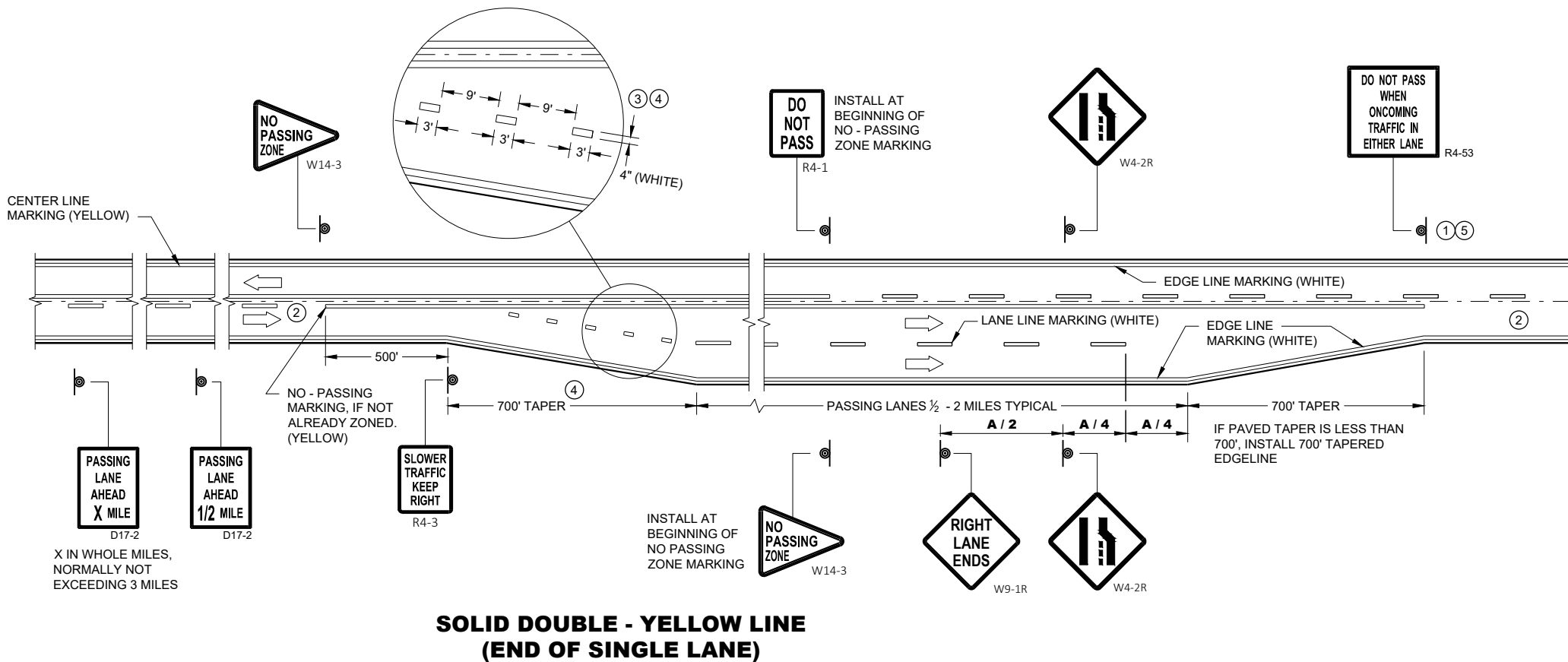
**DISTANCE TABLE**

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



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

STATE OF WISCONSIN  
DEPARTMENT OF TRANSPORTATION



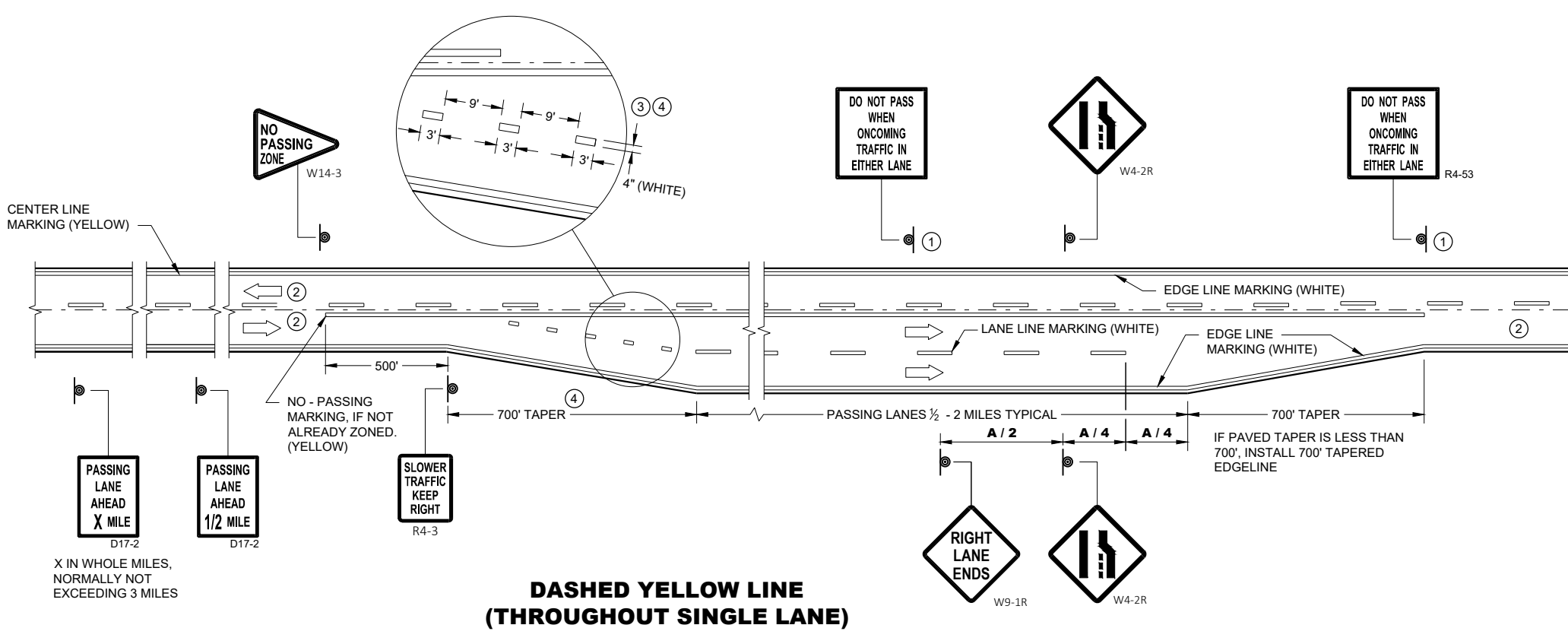
**GENERAL NOTES**

- 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.
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- 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



6

6

SDD 15C35 - 05c

SDD 15C35 - 05c

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

STATE OF WISCONSIN  
DEPARTMENT OF TRANSPORTATION

APPROVED  
DATE: May 2022 /S/ Jeannie Silver  
STATE SIGNING AND MARKING ENGINEER

FHWA

## GENERAL NOTES

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

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

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

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

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

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

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

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

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










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

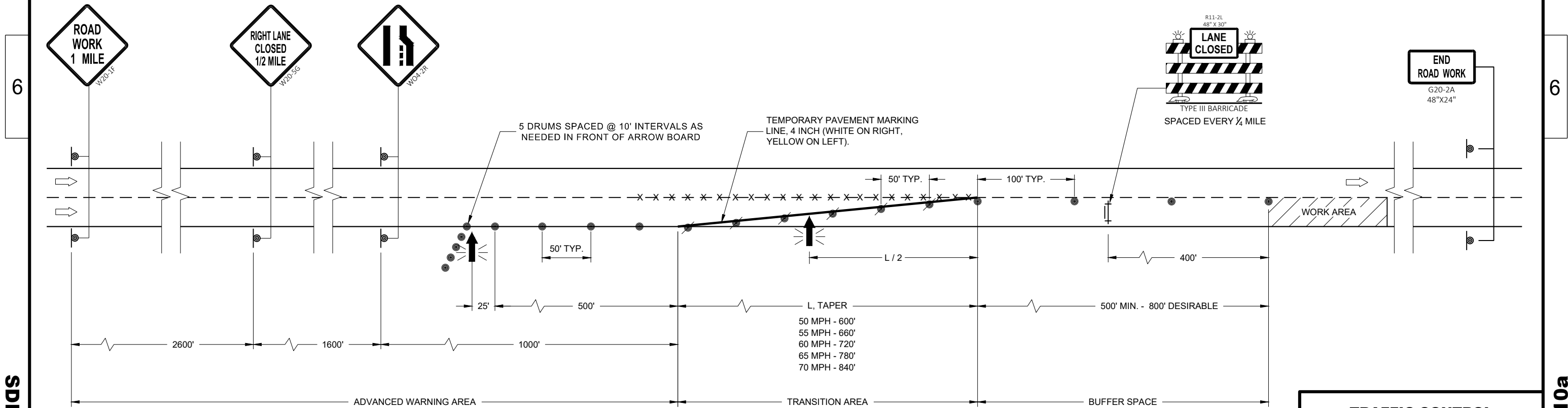
ADJUSTMENTS IN BUFFER SPACE NEED TO BE INCORPORATED WHEN THE LANE CLOSURE OCCURS

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

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










## LEGEND

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



<b>TRAFFIC CONTROL LANE CLOSURE</b>	
STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION	
APPROVED February 2022 DATE	/S/ Andrew Heidtke 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)
-  FLASHING ARROW BOARD
-  DIRECTION OF TRAFFIC
-  REMOVE PAVEMENT MARKING (SEE GENERAL NOTES)
-  WORK AREA

**GENERAL NOTES**

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

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

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

ALL SIGNS ARE 48"X48" UNLESS OTHERWISE NOTED. IF NECESSARY DUE TO SPACE CONSTRAINTS IN URBAN AREAS, 36"X 36" SIGNS MAY BE USED IF APPROVED BY REGIONAL TRAFFIC UNIT.

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

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

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

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

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

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

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

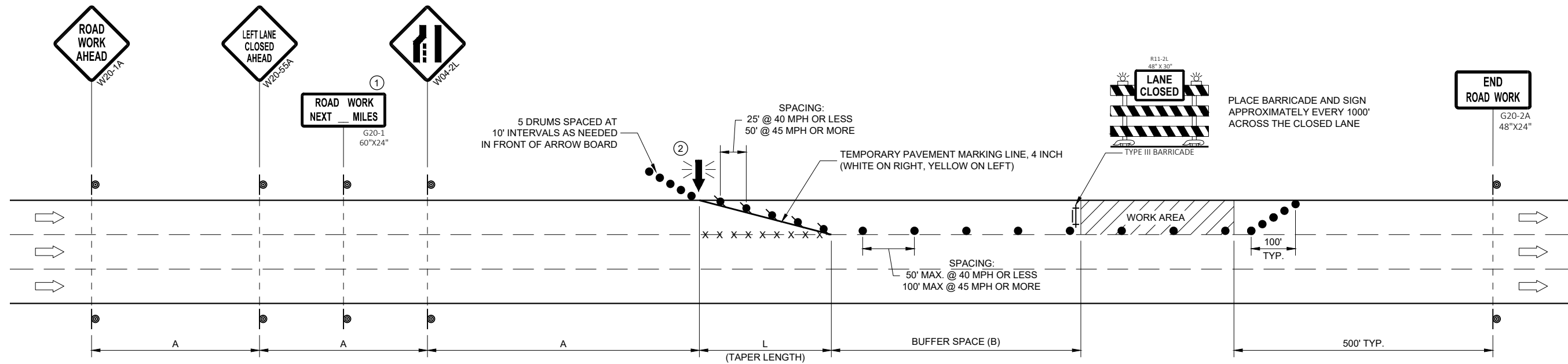
CONSIDER GEOMETRICS WHEN LOCATING SIGNS AND ARROW BOARDS SO THE APPROACHING DRIVER HAS A CLEAR VIEW OF THE ARROW BOARDS AND LANE CLOSURE DRUMS FOR A MINIMUM 1500 FEET IN FRONT OF DRUMS.

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

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

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

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



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










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

STATE OF WISCONSIN  
DEPARTMENT OF TRANSPORTATION

APPROVED  
February 2022 /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)
-  FLASHING ARROW BOARD
-  DIRECTION OF TRAFFIC
-  REMOVE PAVEMENT MARKING (SEE GENERAL NOTES)
-  WORK AREA

**GENERAL NOTES**

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

ALL SIGNS ARE 48"X48" UNLESS OTHERWISE NOTED. IF NECESSARY DUE TO SPACE CONSTRAINTS IN URBAN AREAS, 36"X 36" SIGNS MAY BE USED IF APPROVED BY REGIONAL TRAFFIC UNIT.

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

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

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

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

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

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

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

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

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

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

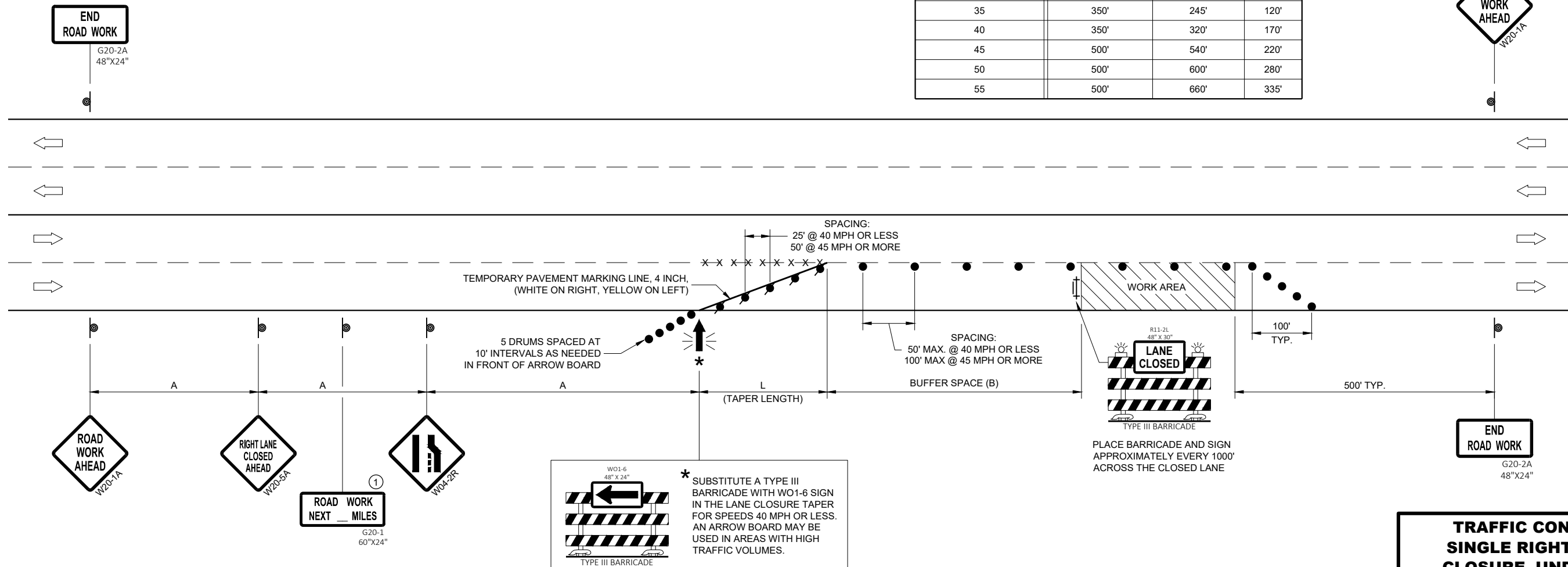
WARNING LIGHTS ARE NOT REQUIRED IF THE LANE CLOSURE IS A DAYTIME ONLY OPERATION.

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

POSTED SPEED LIMIT PRIOR TO WORK STARTING (MPH)	ADVANCE WARNING SIGN SPACING (A) FEET	TAPER LENGTH (12 FT. LANE) (L) FEET	BUFFER SPACE (B) FEET
25	200'	125'	55'
30	200'	180'	85'
35	350'	245'	120'
40	350'	320'	170'
45	500'	540'	220'
50	500'	600'	280'
55	500'	660'	335'

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6



SDD 15D20 - 06b

SDD 15D20 - 06b










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

STATE OF WISCONSIN  
DEPARTMENT OF TRANSPORTATION

APPROVED  
February 2022 /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)
-  FLASHING ARROW BOARD
-  DIRECTION OF TRAFFIC
-  REMOVE PAVEMENT MARKING (SEE GENERAL NOTES)
-  WORK AREA

**GENERAL NOTES**

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

ALL SIGNS ARE 48"X48" UNLESS OTHERWISE NOTED. IF NECESSARY DUE TO SPACE CONSTRAINTS IN URBAN AREAS, 36"X 36" SIGNS MAY BE USED IF APPROVED BY REGIONAL TRAFFIC UNIT.

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

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

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

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

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

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

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

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

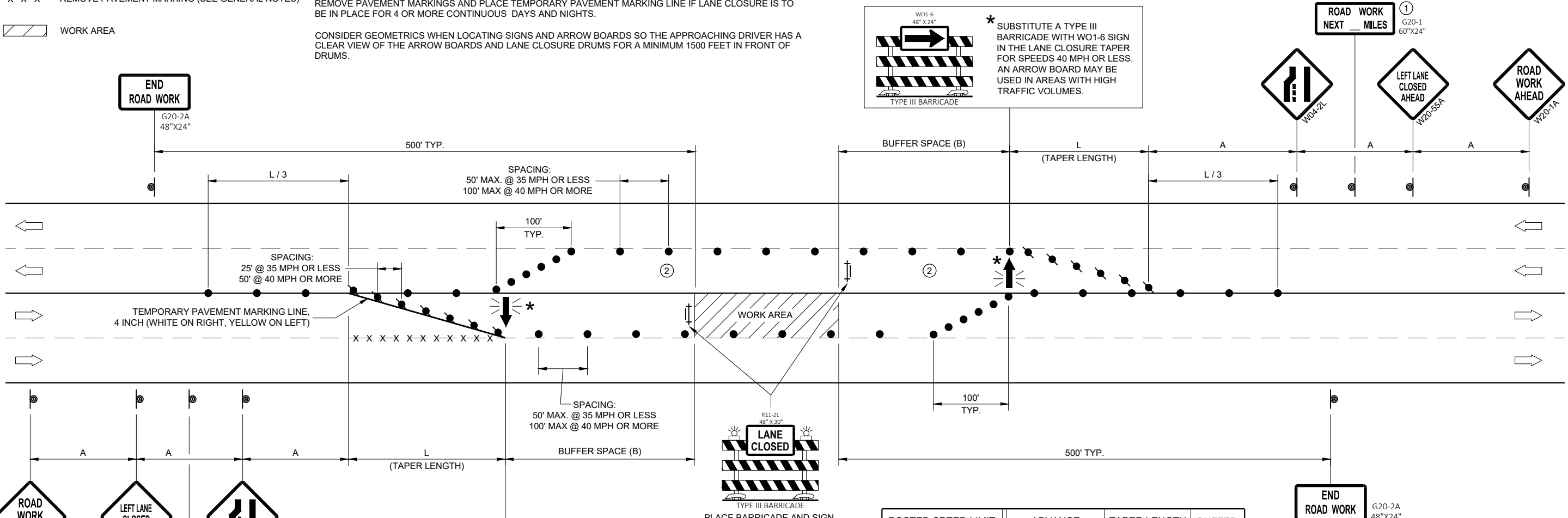
DUE TO LACK OF SHOULDER/MEDIAN, ARROW BOARD IS PLACED AT THE THE END OF THE TAPER.

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

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

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

- ① OMIT G20-1 SIGNS IF LENGTH OF WORK AREA IS 2 MILES OR LESS.
- ② LANE MAY BE OPENED WHEN WORKERS ARE NOT PRESENT IN THE WORK AREA.



**\* SUBSTITUTE A TYPE III BARRICADE WITH WO1-6 SIGN IN THE LANE CLOSURE TAPER FOR SPEEDS 40 MPH OR LESS. AN ARROW BOARD MAY BE USED IN AREAS WITH HIGH TRAFFIC VOLUMES.**

**\* SUBSTITUTE A TYPE III BARRICADE WITH WO1-6 SIGN IN THE LANE CLOSURE TAPER FOR SPEEDS 40 MPH OR LESS. AN ARROW BOARD MAY BE USED IN AREAS WITH HIGH TRAFFIC VOLUMES.**

PLACE BARRICADE AND SIGN APPROXIMATELY EVERY 1000' ACROSS THE CLOSED LANE.

POSTED SPEED LIMIT PRIOR TO WORK STARTING (MPH)	ADVANCE WARNING SIGN SPACING (A) FEET	TAPER LENGTH (12 FT. LANE) (L) FEET	BUFFER SPACE (B) FEET
25	200'	125'	55'
30	200'	180'	85'
35	350'	245'	120'
40	350'	320'	170'
45	500'	540'	220'
50	500'	600'	280'
55	500'	660'	335'

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

STATE OF WISCONSIN  
DEPARTMENT OF TRANSPORTATION

APPROVED  
February 2022 /S/ Andrew Heidtke  
DATE WORK ZONE ENGINEER

FHWA

### GENERAL NOTES

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

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

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

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

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

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

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

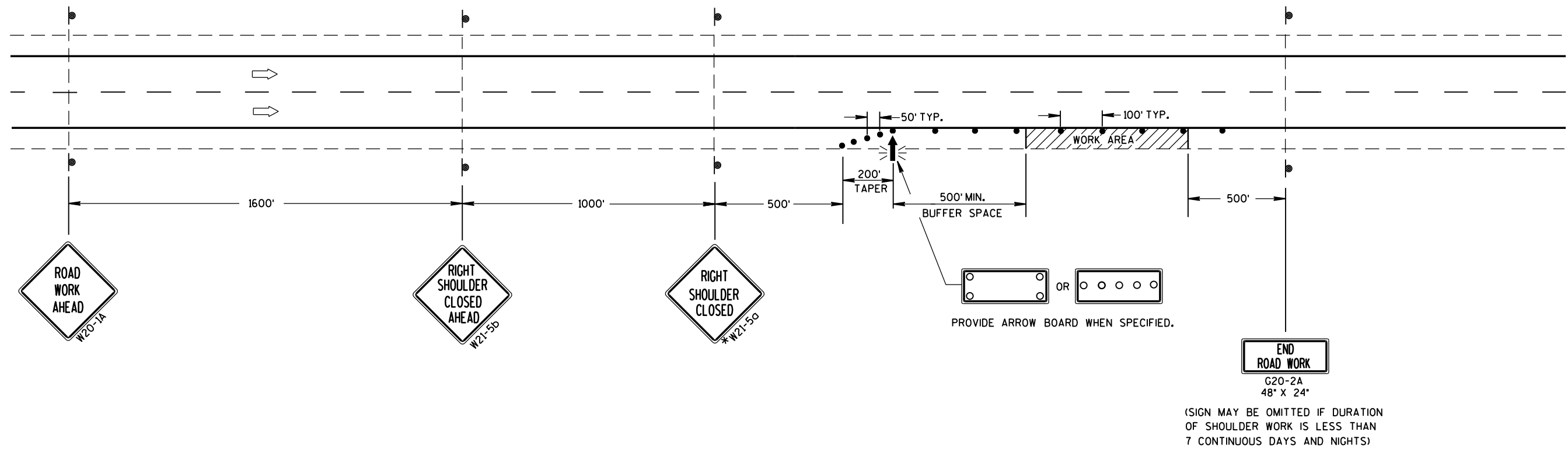
CHANNELIZING DEVICES PLACED ADJACENT TO THE WORK AREA SHALL BE PULLED BACK FROM THE TRAVEL LANE WHEN WORK IS NOT IN PROGRESS.

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

\*FOR SHORT DURATION SHOULDER WORK OF LESS THAN ONE HOUR, THE W21-50 SIGN MAY BE OMITTED.

### LEGEND







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



(SIGN MAY BE OMITTED IF DURATION OF SHOULDER WORK IS LESS THAN 7 CONTINUOUS DAYS AND NIGHTS)

<b>TRAFFIC CONTROL SHOULDER CLOSURE ON DIVIDED ROADWAY, SPEEDS GREATER THAN 40 MPH</b>	
STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION	
APPROVED June 2016 DATE	/s/ Peter Amakobe Atepe STATEWIDE WORK ZONE TRAFFIC SAFETY ENGINEER
FHWA	

**LEGEND**

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

**GENERAL NOTES**

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

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

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

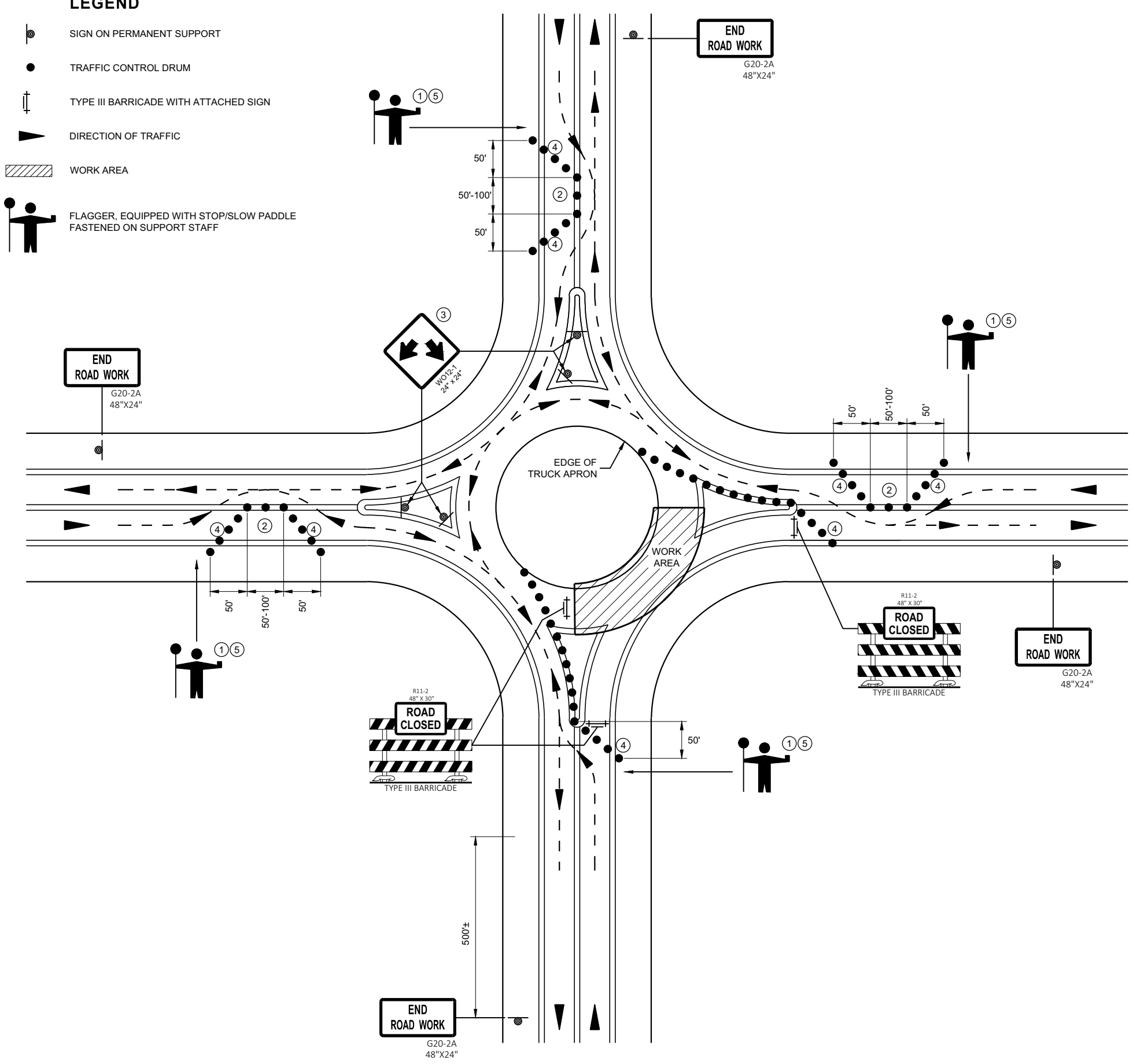
THE EXACT NUMBER, LOCATION, AND SPACING OF ALL SIGNS AND DEVICES SHALL BE ADJUSTED TO FIT FIELD CONDITIONS AS APPROVED BY THE ENGINEER.

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

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

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

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



**RECOMMENDED REDUCED DRUM SPACING WITHIN ROUNDABOUT**

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

6

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SDD 15D37 - 03

SDD 15D37 - 03

**TRAFFIC CONTROL, FLAGGING OPERATION, ROUNDABOUT**

STATE OF WISCONSIN  
DEPARTMENT OF TRANSPORTATION

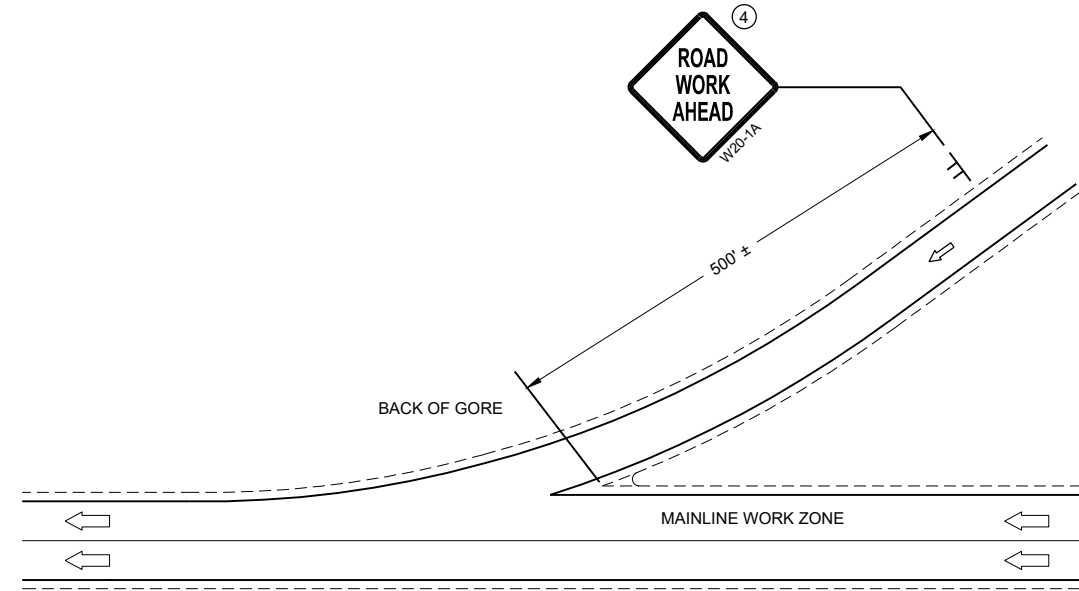
APPROVED  
May 2020 /S/ Andrew Heidtke  
DATE STATEWIDE WORK ZONE TRAFFIC SAFETY ENGINEER

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.

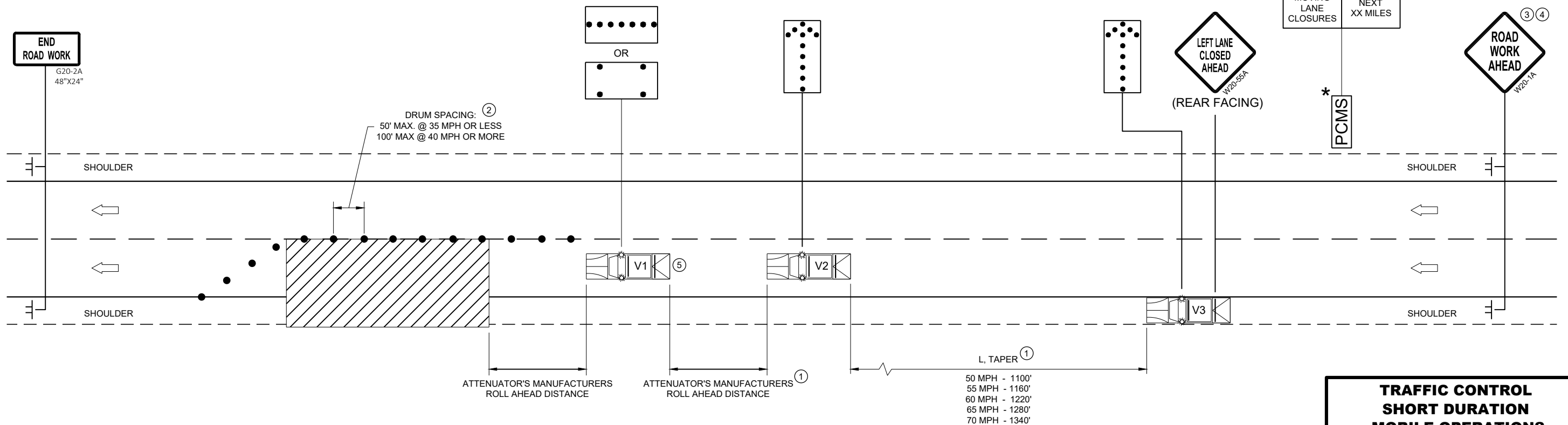
WHEN NO WORK ACTIVITY IS TAKING PLACE, REMOVE OR LAY STATIONARY SIGNS AND SUPPORTS FLAT ON THE GRADE WITH UPRIGHTS ORIENTED PARALLEL TO AND DOWNSTREAM FROM TRAFFIC

- 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



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SDD 15D43 - 02

SDD 15D43 - 02








**TRAFFIC CONTROL  
SHORT DURATION  
MOBILE OPERATIONS**

STATE OF WISCONSIN  
DEPARTMENT OF TRANSPORTATION

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

FHWA

**LEGEND**

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

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

**GENERAL NOTES**

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

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

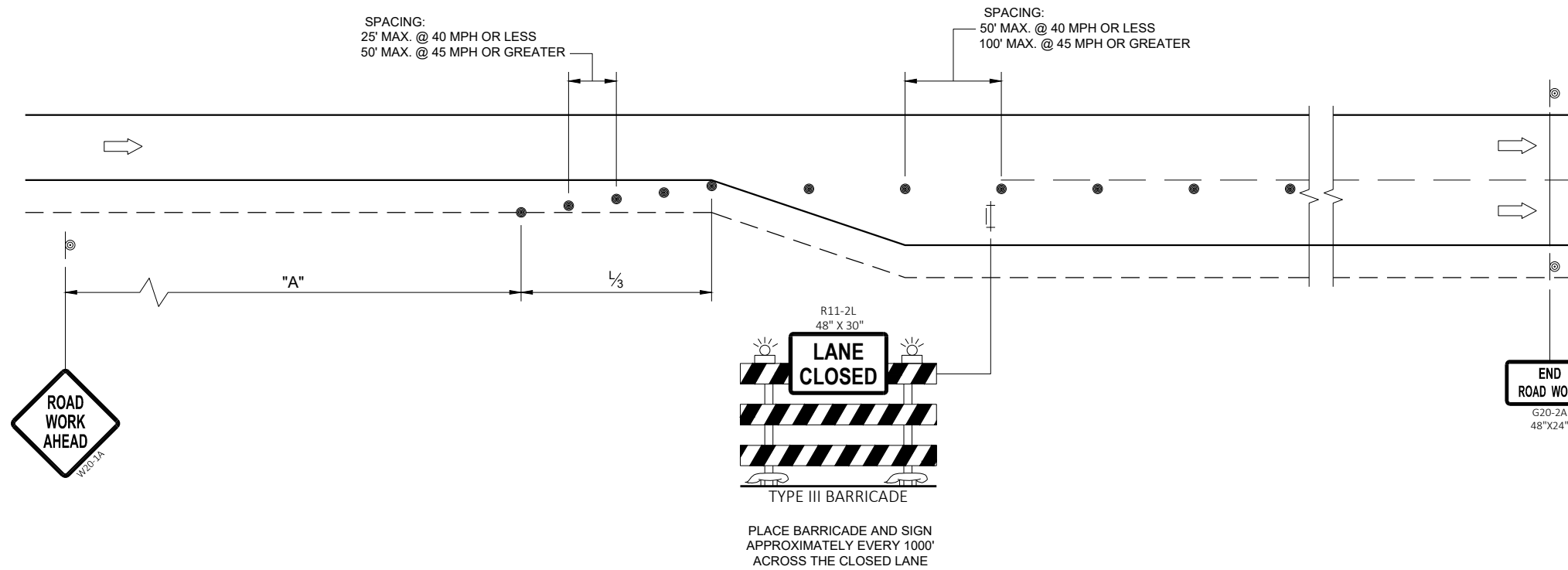
"WO" IS THE SAME AS "W" EXCEPT THE BACKGROUND IS ORANGE.

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

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

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

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



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





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SDD 15D50 - 02a

SDD 15D50 - 02a

<b>TRAFFIC CONTROL ADDED LANE CLOSURE WITHOUT LANE SHIFT</b>	
STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION	
APPROVED February 2022 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/2) FEET
25	200	60
30	200	90
35	350	120
40	350	160
45	500	270
50	500	300
55	500	330

**GENERAL NOTES**

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

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

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

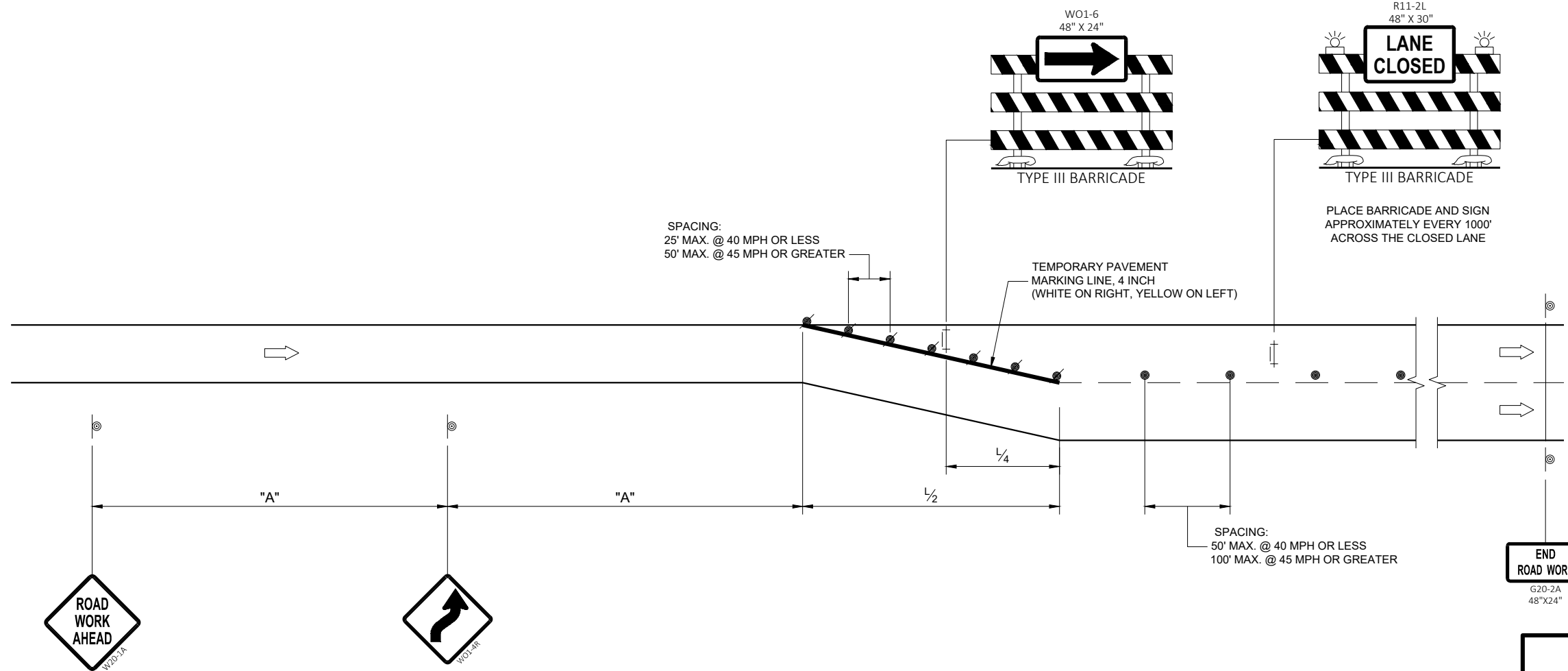
ANY SIGNS TEMPORARY OR EXISTING, WHICH CONFLICT WITH TRAFFIC CONTROL "IN USE" SHALL BE REMOVED OR COVERED AS NEEDED AND AS APPROVED BY THE ENGINEER.

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

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

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

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



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
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SDD 15D50 - 02b

SDD 15D50 - 02b

<b>TRAFFIC CONTROL, ADDED LANE CLOSURE WITH LANE SHIFT</b>	
STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION	
APPROVED February 2022 DATE	/S/ Andrew Heidtke WORK ZONE ENGINEER
FHWA	

**LEGEND**

- V1 WORK VEHICLE
- V2 SHADOW VEHICLE
-  TRUCK MOUNTED ATTENUATOR (TMA)
-  FLASHING ARROW PANEL (CAUTION)
-  WORK AREA
-  DIRECTION OF TRAFFIC

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

**GENERAL NOTES**

ALL SIGNS ARE 48"X48" UNLESS OTHERWISE NOTED.

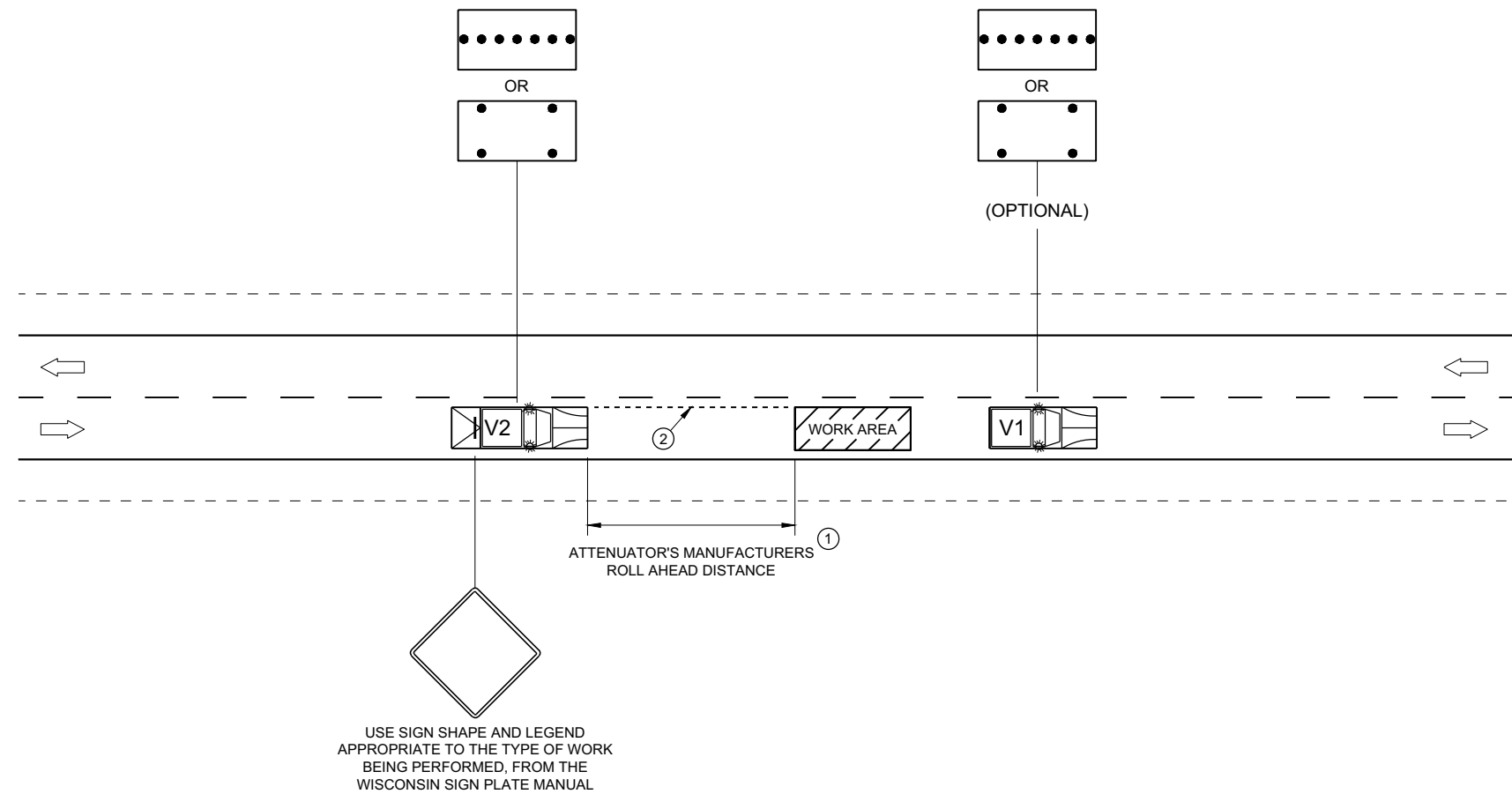
MOBILE IS WORK THAT MOVES CONTINUOUSLY OR MOVES AT LEAST THE DECISION SIGHT DISTANCE EVERY 15 MINUTES.

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

ALL ARROW PANELS SHALL BE REAR FACING, TYPE "B" OR "C", AND DISPLAYING THE FLASHING CAUTION MODE. SIGNS PLACED ON VEHICLES MUST NOT OBSCURE THE ARROW PANEL.

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

- ① DISTANCE BETWEEN VEHICLES MAY INCREASE FROM THE ATTENUATOR'S ROLL AHEAD BASED ON TERRAIN, SIGHT DISTANCE, AND OTHER FACTORS. WHENEVER ADEQUATE STOPPING SIGHT DISTANCE EXISTS TO THE REAR, SHADOW VEHICLES SHOULD MAINTAIN THE MINIMUM DISTANCE FROM THE WORK VEHICLE AND PROCEED AT THE SAME SPEED AS THE WORK VEHICLE. SHADOW VEHICLES SHOULD SLOW DOWN IN ADVANCE OF VERTICAL OR HORIZONTAL CURVES THAT RESTRICT SIGHT DISTANCE.
- ② ALIGN LEFT SIDE OF SHADOW VEHICLE WITH EDGE OF WORK AREA.



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SDD 15D51 - 01

SDD 15D51 - 01

**TRAFFIC CONTROL,  
MOBILE OPERATIONS ON  
AN UNDIVIDED ROADWAY**

STATE OF WISCONSIN  
DEPARTMENT OF TRANSPORTATION

APPROVED  
February 2021 DATE /S/ Andrew Heidtke  
STATEWIDE WORK ZONE TRAFFIC SAFETY ENGINEER  
FHWA

# Notes



## ***Wisconsin Department of Transportation***

Dedicated people creating transportation solutions through innovation and exceptional service.

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