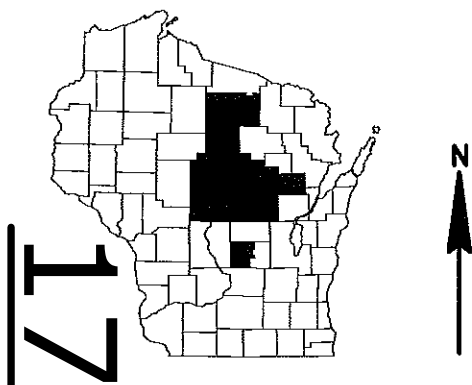


ORDER OF SHEETS

- 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 = 40



STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION

PLAN OF PROPOSED IMPROVEMENT

NC REGION, EPOXY PAVEMENT MARKING

LOCATIONS ON STN PER ANNUAL PLAN

VAR HWY

NORTH CENTRAL REGION WIDE

STATE PROJECT	FEDERAL PROJECT	
	PROJECT	CONTRACT
1009-42-22	WISC 2019807	1

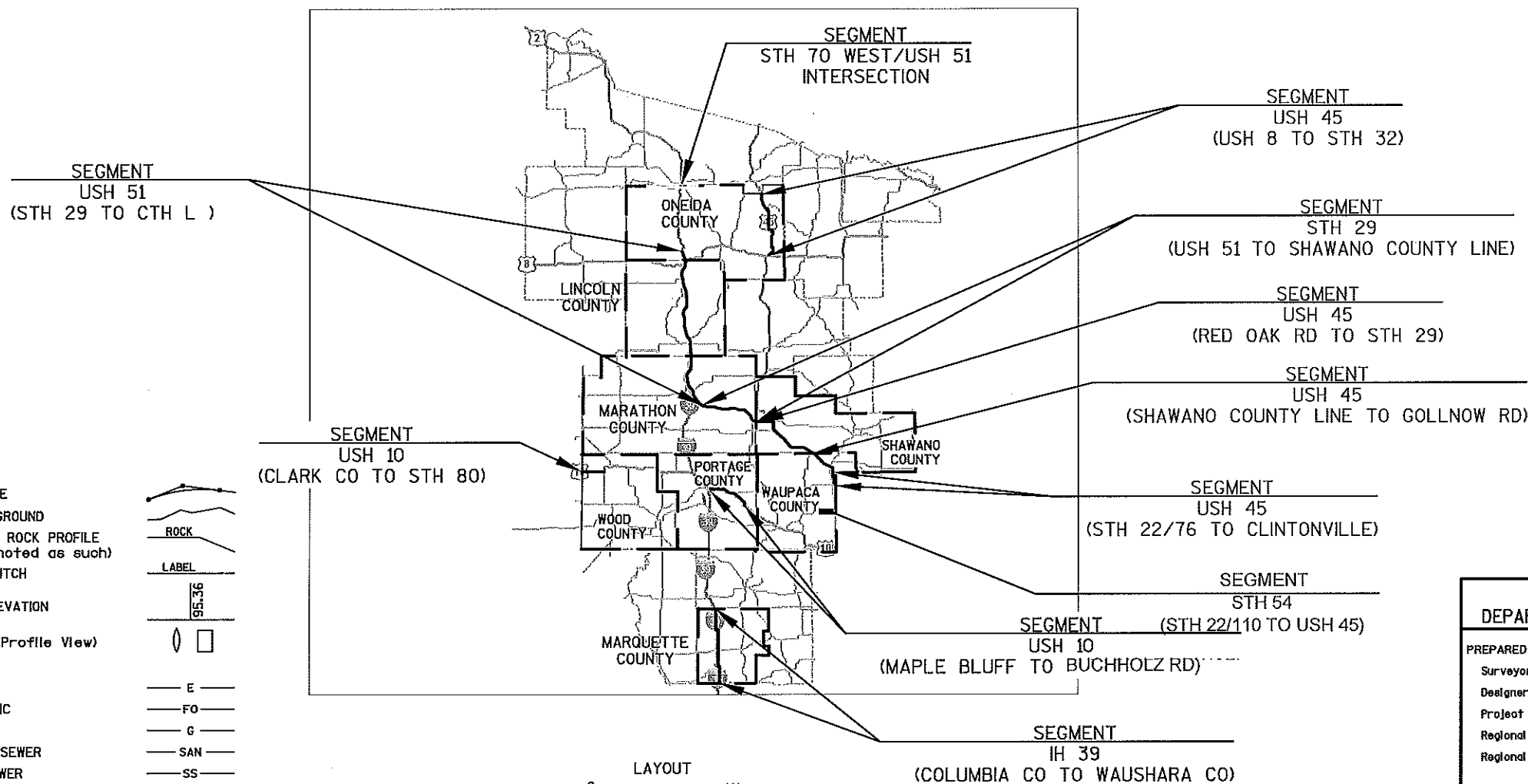
STATE PROJECT NUMBER
1009-42-22

DESIGN DESIGNATION 1009-42-22

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

CONVENTIONAL SYMBOLS

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



LAYOUT
SCALE 0 NA
TOTAL NET LENGTH OF CENTERLINE = 0 MILES

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

PREPARED BY
 Surveyor: NC REGION
 Designer: JEANNIE SILVER
 Project Manager: _____
 Regional Examiner: _____
 Regional Supervisor: MATT RAUCH

APPROVED FOR THE DEPARTMENT
 DATE: 11-25-19 *Matthew R. Rauch*
 (Signature)

E

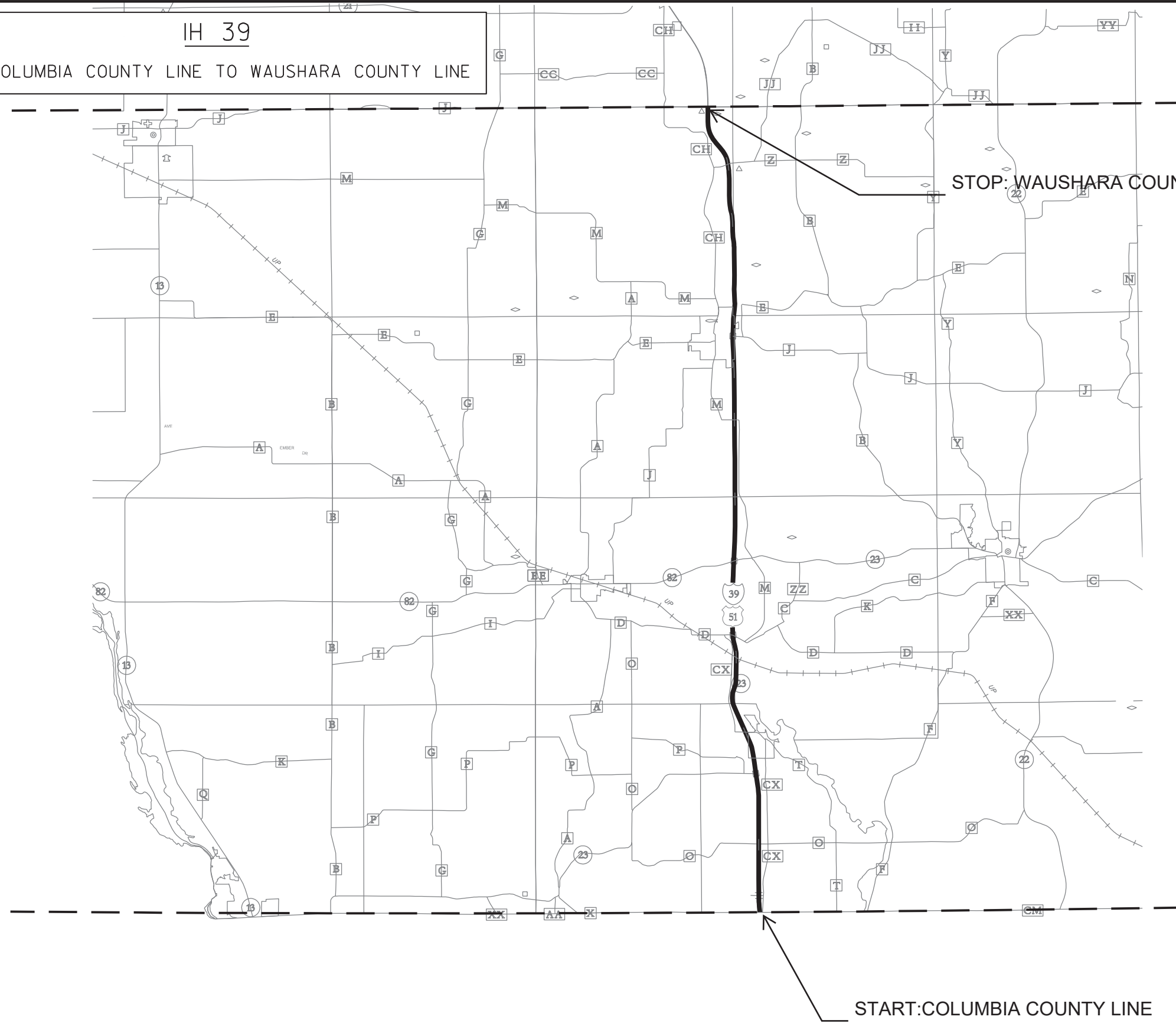
GENERAL NOTES

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



PROJECT NO: 1009-42-22	HWY: VARIOUS	COUNTY: VARIOUS	GENERAL NOTES	SHEET	E
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IH 39
COLUMBIA COUNTY LINE TO WAUSHARA COUNTY LINE



START: COLUMBIA COUNTY LINE

STOP: WAUSHARA COUNTY LINE

PROJECT NO: 1009-42-22	HWY: IH 39	COUNTY: MARQUETTE	OVERVIEW	SHEET	E
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USH 10
CLARK COUNTY LINE TO STH 80



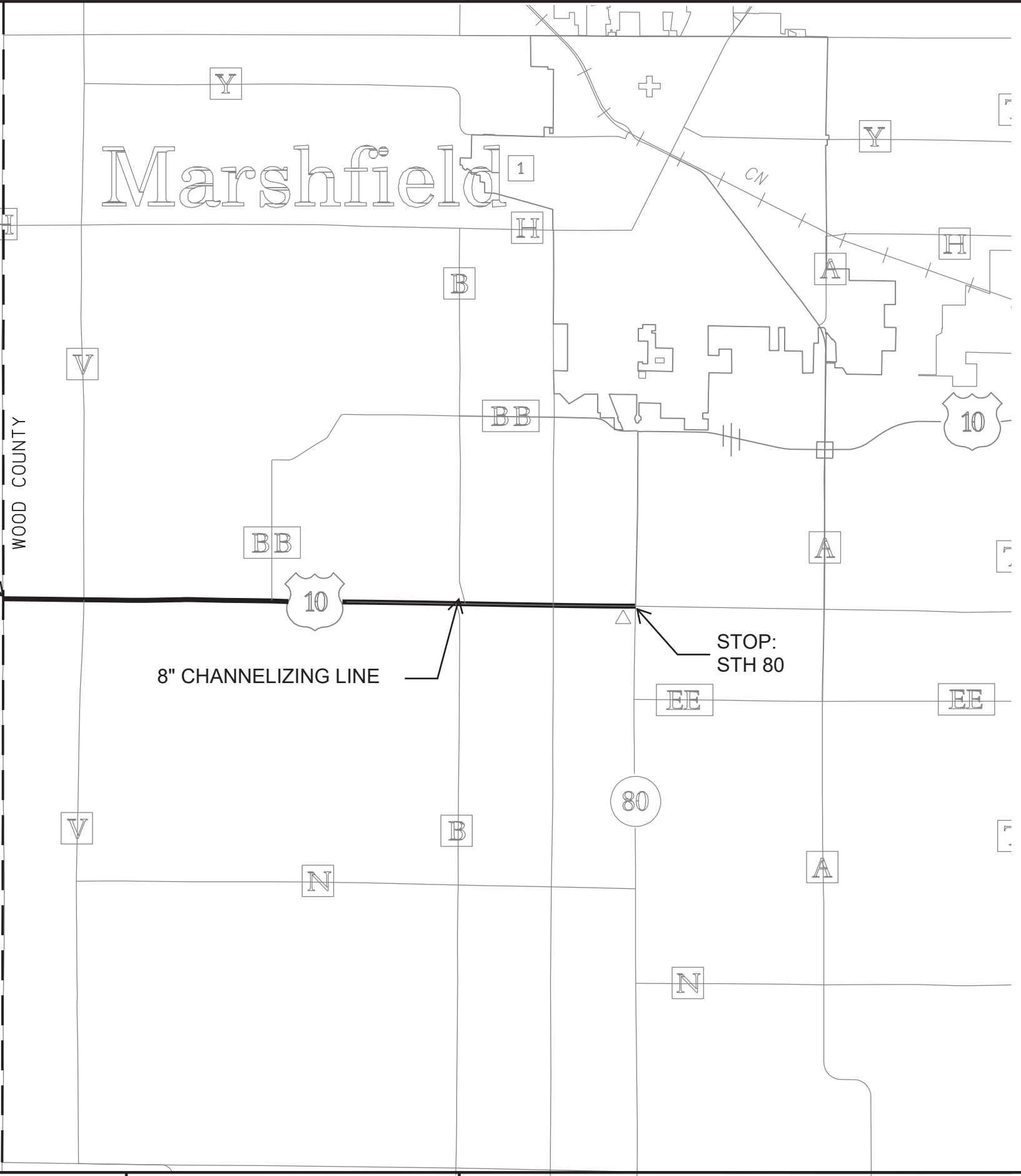
Marshfield

START: CLARK CO LINE

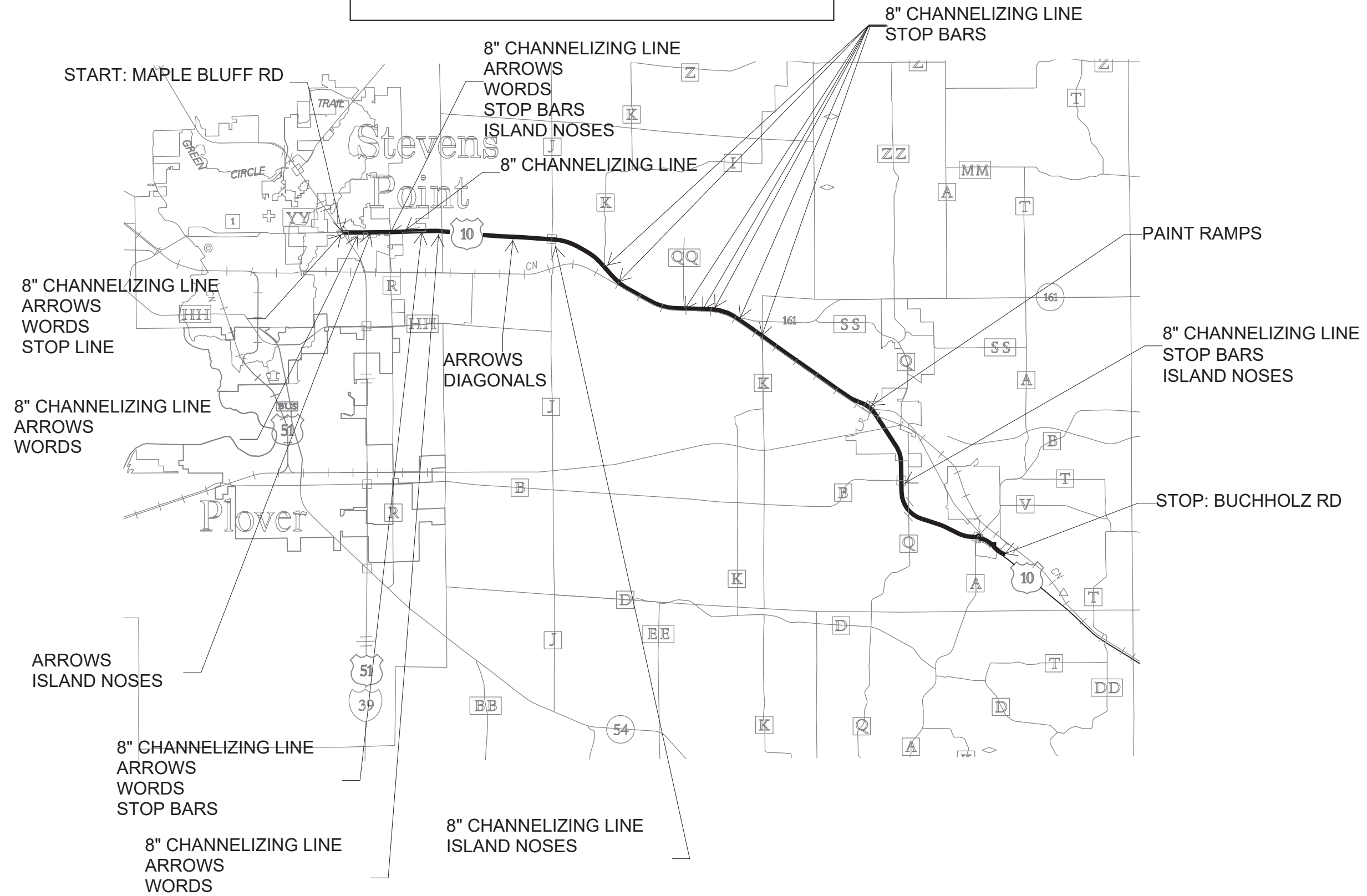
CLARK COUNTY
WOOD COUNTY

8" CHANNELIZING LINE

STOP:
STH 80



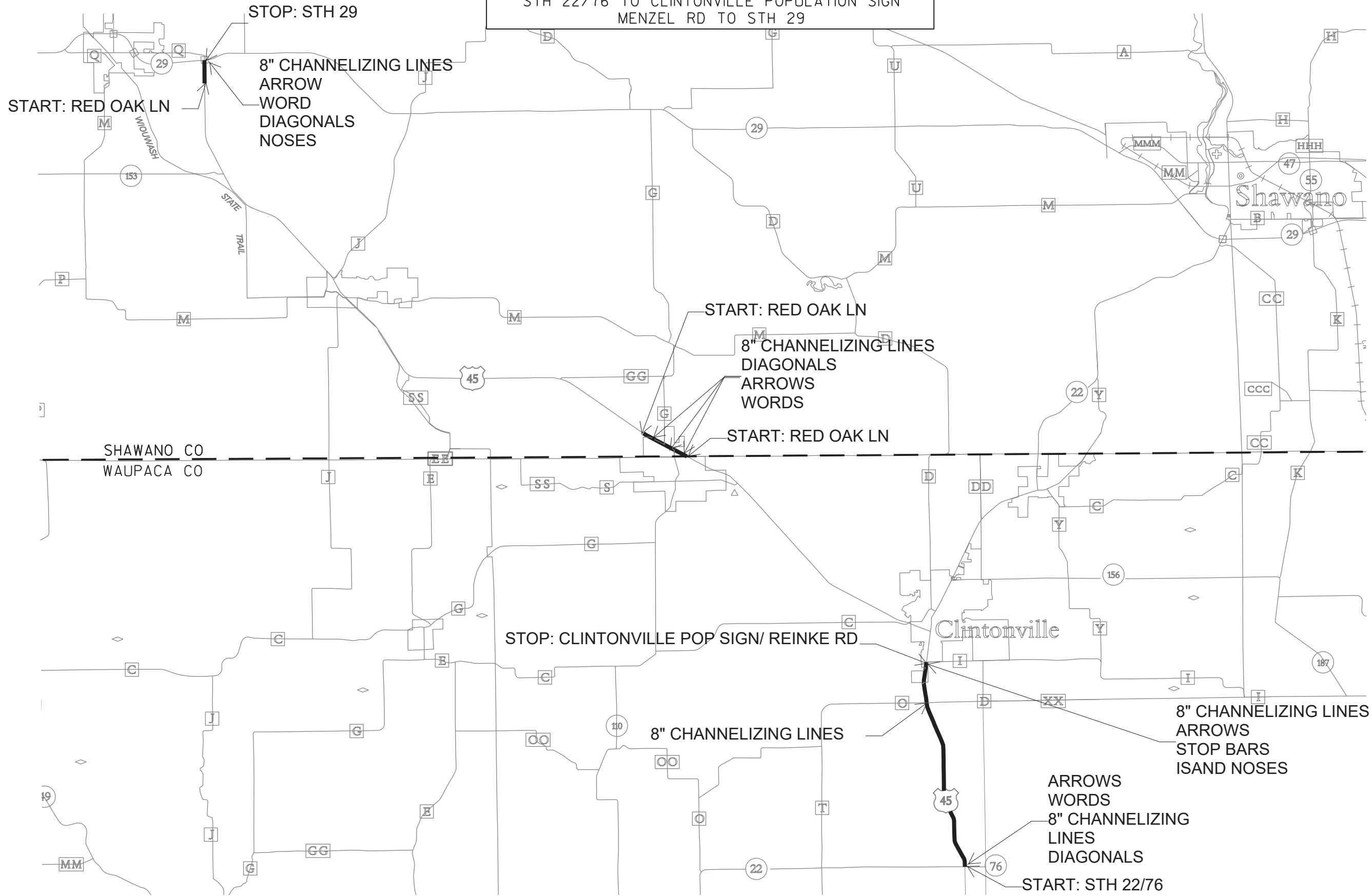
USH 10
MAPLE BLUFF RD TO BUCHHOLZ RD



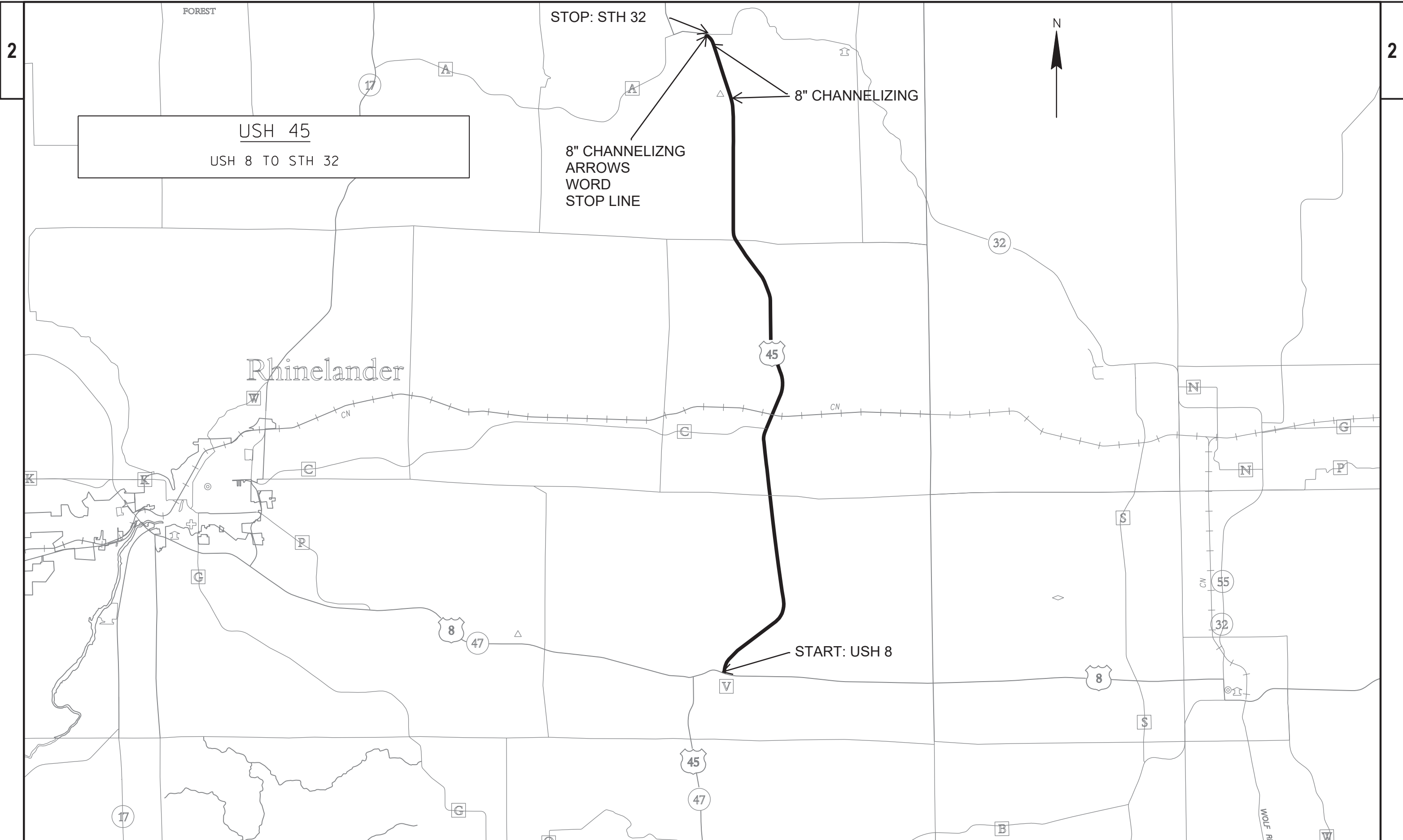
PROJECT NO: 1009-42-22	HWY: USH 10	COUNTY: PORTAGE	OVERVIEW	SHEET	E
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USH 45
 STH 22/76 TO CLINTONVILLE POPULATION SIGN
 MENZEL RD TO STH 29



PROJECT NO: 1009-42-22	HWY: USH 45	COUNTY: WAUPACA/SHAWANO	OVERVIEW	SHEET	E
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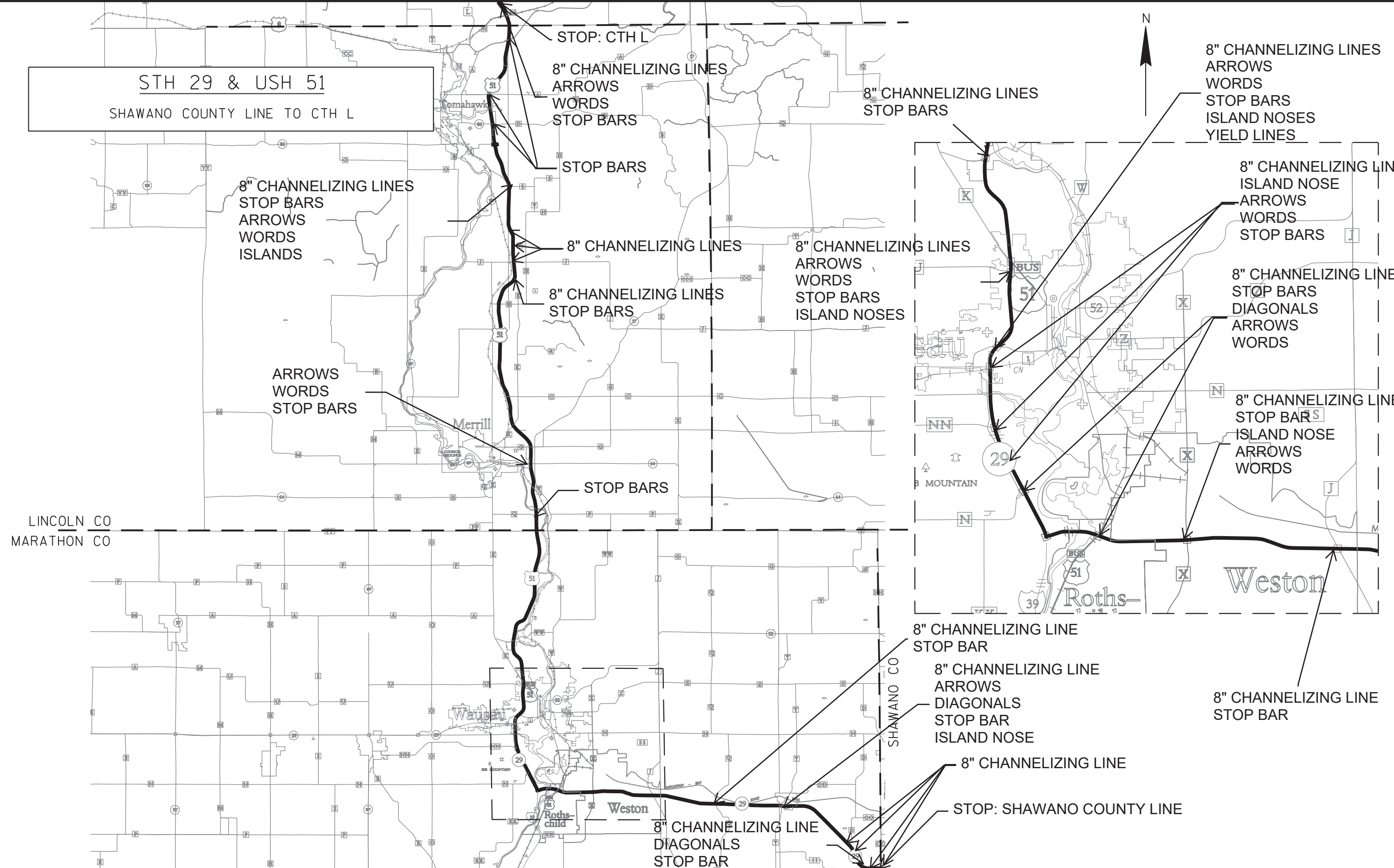
USH 45
USH 8 TO STH 32

8" CHANNELIZNG
ARROWS
WORD
STOP LINE

8" CHANNELIZING

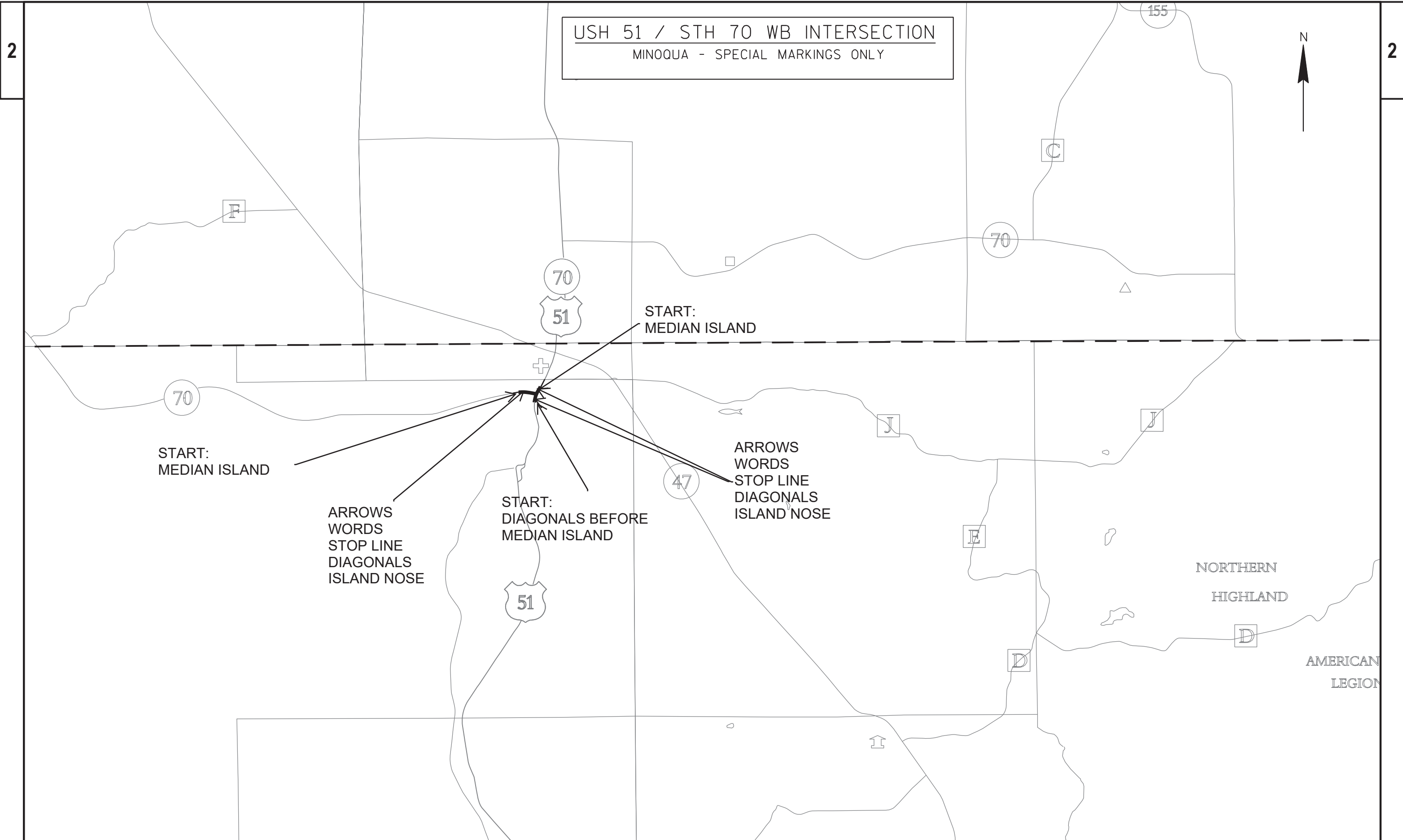
START: USH 8

STH 29 & USH 51
SHAWANO COUNTY LINE TO CTH L

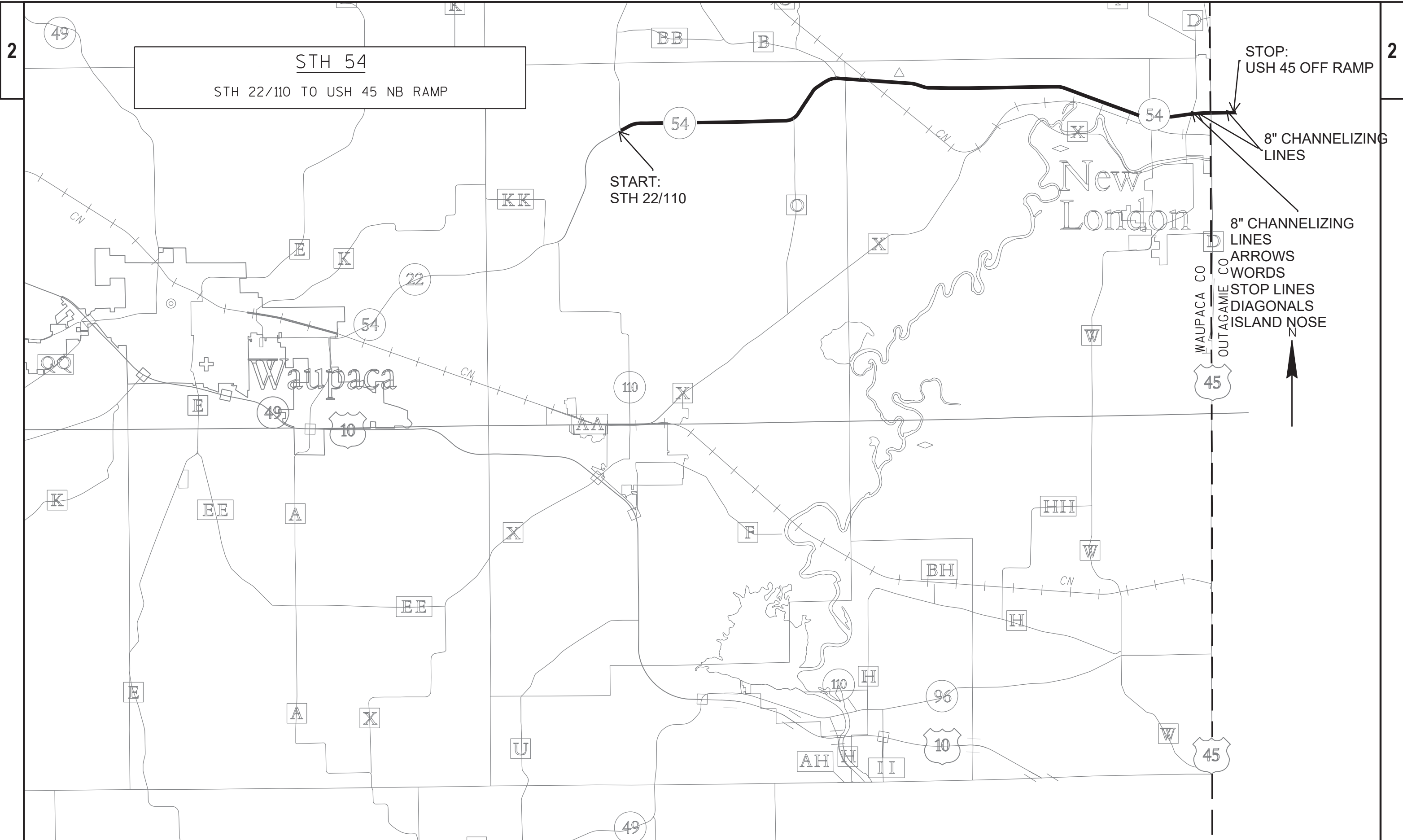


LINCOLN CO
MARATHON CO

SHAWANO CO



USH 51 / STH 70 WB INTERSECTION
 MINOQUA - SPECIAL MARKINGS ONLY



PROJECT NO: 1009-42-22

HWY: STH 54

COUNTY: WAUPACA/ OUTAGMIE

OVERVIEW

SHEET

E

Estimate Of Quantities

1009-42-22

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	2,745,634.000	2,745,634.000
0006	646.1041.S	Marking Replace Line Wet Reflective Epoxy 4-Inch	LF	53,512.000	53,512.000
0008	646.3020	Marking Line Epoxy 8-Inch	LF	24,916.000	24,916.000
0010	646.3041.S	Marking Replace Line Wet Reflective Epoxy 8-Inch	LF	1,725.000	1,725.000
0012	646.3555	Marking Line Grooved Contrast Permanent Tape 8-Inch	LF	1,200.000	1,200.000
0014	646.5020	Marking Arrow Epoxy	EACH	217.000	217.000
0016	646.5120	Marking Word Epoxy	EACH	87.000	87.000
0018	646.6120	Marking Stop Line Epoxy 18-Inch	LF	4,075.000	4,075.000
0020	646.6220	Marking Yield Line Epoxy 18-Inch	EACH	10.000	10.000
0022	646.7120	Marking Diagonal Epoxy 12-Inch	LF	1,835.000	1,835.000
0024	646.8020	Marking Corrugated Median Epoxy	SF	480.000	480.000
0026	646.8220	Marking Island Nose Epoxy	EACH	103.000	103.000
0028	646.9200	Marking Removal Line Wide	LF	1,200.000	1,200.000
0030	SPV.0105	Special 01. Traffic Control (1009-42-22)	LS	1.000	1.000

SUMMARY PAGE

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Route	County	Limits	646.1020 Line Epoxy 4-IN		646.3020 Line Epoxy 8-IN	646.1041.S Line Wet Reflective Epoxy 4-IN		646.3041.S Marking Line WR Epoxy 8-IN	646.3555 Line Grooved Contrast Permanent Tape 8-Inch	646.9200 Removal Line Wide	619.1000 Mobilization	SPV.0105.01 Traffic Control
			Yellow	White	White	Yellow	White	White	White			
			LF	LF	LF	LF	LF	LF	LF	LF	LF	EACH
Whole Project	Regionwide	-									1	1
USH 45	Oneida	USH 8 to STH 32	84,994	172,600	642							
STH 29	Marathon Co	USH 51 to Shawano CO Line	249,671	365,889	5,913							
I39 NB	Marquette	Mile Marker 96 - 120		31,390								
I39 SB	Marquette	Mile Marker 133-126		9,114								
I39 NB	Marathon	Cedar Creek Exit Gore							1,200	1,200		
USH 10	Wood	Clark Co Line to STH 80	41,719	69,660	150							
USH 10	Portage Co	Maple Bluff Rd to Buchholz Rd	196,378	193,433	9,851							
STH 54	Waupaca	22/110 NB to 45	61,637	9,899	601							
USH 51	Marathon/Lincoln/ Oneida County	I39 to CTH L	543,271	615,309	6,084		15,840					
USH 51/STH 70 WB	Oneida	Intersection										
USH 45	Waupaca/Shawano	STH 22/76 to STH 29	16,040	84,630	1,675	37,672		1,725				
Total			1,193,710	1,551,924	24,916	37,672	15,840	1,725	1,200	1,200	1	1

SUMMARY PAGE

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Route	County	Limits	646.5020 Arrow Epoxy EACH	646.5120 Word Epoxy EACH	646.6120 Stop Line Epoxy 18-Inch LF	646.7120 Diagonal Epoxy 12-Inch		646.8020 Corrugated Median Epoxy	646.8220 Island Nose Epoxy	646.6220 Yield Line 18-Inch Epoxy EACH
						Yellow	White	Yellow	Yellow	
						LF	LF	SF	EACH	
Whole Project	Regionwide	-								
USH 45	Oneida	USH 8 to STH 32	2	1	65					
STH 29	Marathon Co	USH 51 to Shawano CO Line	22	7	539		0		16	
I39 NB	Marquette	Mile Marker 96 - 120								
I39 SB	Marquette	Mile Marker 133-126								
I39 NB	Marathon	Cedar Creek Exit Gore								
USH 10	Wood	Clark Co Line to STH 80								
USH 10	Portage Co	Maple Bluff Rd to Buchholz Rd	57	13	1,101		80	480	35	
STH 54	Waupaca	22/110 NB to 45	4	4	145	90			8	
USH 51	Marathon/Lincoln/ Oneida County	I39 to CTH L	96	46	2,029	0	510		26	10
USH 51/STH 70 WB	Oneida	Intersection	8	4	146	90	340		6	
USH 45	Waupaca/Shawano	STh 22/76 to STH 29	28	12	50	687	38		12	
Total			217	87	4,075	867	968	480	103	10

IH 39
COLUMBIA COUNTY LINE TO WAUSHARA COUNTY LINE

3

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LOCATION	IH 39	646.1020 Line Epoxy 4-IN	646.3555 Line Grooved Contrast Permanent Tape 8-Inch	646.9200 Removal Line Wide	Comments
		White	White		
		LF	LF	LF	
Marquette County	I39 NB from Mile Marker 96-120	31,390			Lane lines only
Marquette County	I39 SB from Mile Marker 133-126	9,114			Lane lines only
Marathon County	Cedar Creek Exit Gore		700	700	Remove & replace gore marking
Marathon County	Cedar Creek Exit Gore		500	500	Remove & replace gore marking
IH 39 TOTALS:		40,504	1,200	1,200	

USH 10

CLARK COUNTY LINE TO STH 80

3

3

<u>LOCATION</u>	<u>USH 10</u>	646.1020 Line Epoxy 4-IN		646.3020 Line Epoxy 8-IN	<u>Comments</u>
		Yellow	White	White	
		LF	LF	LF	
Wood County	Clark County Line to USH 80	41,719	69,660		Retrace all mini skips and by pass lanes
Wood County	CTH B			150	Do not paint diagonals or stop bars
<i>SUBTOTALS:</i>		<i>41,719</i>	<i>69,660</i>		
TOTALS:		111,379		150	

USH 10

MAPLE BLUFF RD TO A/B Buchholz Rd

LOCATION	USH 10	646.1020 Line Epoxy 4-IN		646.3020 Line Epoxy 8-IN	646.5020 Arrow Epoxy Type 2	646.5120 Word Epoxy	646.6120 Stop Line Epoxy 18-Inch	646.7120 Diagonal Epoxy 12-Inch	646.8020 Corrugated Median Epoxy	646.8220 Island Nose Epoxy	Comments
		Yellow	White	White	White	White	White	White	Yellow	Yellow	
		LF	LF	LF	EACH	EACH	LF	LF	SF	EACH	
Portage/Waupaca County	Maple Bluff Rd to Buchholz Rd	181,262	176,774								Retrace all mini skips and by pass lanes
Portage County	Maple Bluff Rd			805	7	4	150			7	
Portage County	TWLT				10					2	
Portage County	Wildwood Dr			285	2	2				2	
Portage County	TWLT				2						
Portage County	CTH R/Brilowski Rd			635	6	3	148			6	
Portage County	Amber Ave			210						1	
Portage County	Elizabeth Ave			580	4	2	159				
Portage County	Badger Ave			662	4	2				3	
Portage County	TWLT				22				480		
Portage County	USH 10 @ CTH J	5,966	7,220	205			80	80			Do not repaint type 4 arrows
Portage County	CTH J @ USH 10			280						6	
Portage County	CTH K			930			86				
Portage County	Deer Rd/North Ln			640			20				
Portage County	CTH QQ			810			72				
Portage County	Smokey Rd			665			36				
Portage County	Ridge Rd			725			36				
Portage County	STH 161			900			65				
Portage County	CTH K			935			100				
Portage County	CTH KK/Lake Drive Interchange	1,993	1,993								Do not repaint type 4 arrows
Portage County	USH 10 @ CTH B	3,208	3,208				46				
Portage County	CTH B @ USH 10			200						4	
Portage County	CTH A/B Interachange	3,949	4,238				63			4	
Portage	Buchholz Rd			384			40				
SUBTOTALS:		196,378	193,433								
TOTALS:		389,811		9,851	57	13	1,101	80	480	35	

*Special Markings not required per SDD 15C8 will not be removed or replaced.

USH 45

STH 22/76 TO CLINTONVILLE POPULATION SIGN MENZEL RD TO STH 29

LOCATION	USH 45	646.1020 Line Epoxy 4-IN		646.3020 Line Epoxy 8-IN	646.1041.S Line Wet Reflective Epoxy 4-IN	646.3041.S Line Wet Reflective Epoxy 8-IN	646.5020 Arrow Epoxy	646.5120 Word Epoxy	646.6120 Stop Line Epoxy 18- Inch	646.7120 Diagonal Epoxy 12-Inch		646.8220 Island Nose Epoxy	Comments
		Yellow LF	White LF	White LF	Yellow LF	White LF	Type 2 EACH	White EACH	White LF	Yellow LF	White LF	Yellow EACH	
Waupaca County	STH 22/76 to Clintonville Pop Sign. Reinke Rd		69,220		37,672								
Waupaca County	USH 45 @ STH 22					722	4	2		75		1	
Waupaca County	USH 45 @ Allerrain Ln					285	2	1		93			
Waupaca County	USH 45 @ CTH O					608							
Waupaca County	USH 45 @ Reinke Rd					110	2		50			5	
Shawano County	Waupaca County Line to Gollonow Rd	12,920	12,540										
Shawano County	USH 45 @ Waupaca/Shawano Co Line			100			2	1					
Shawano County	USH 45 in TWLT in Marion						4						
Shawano County	USH 45 @ 110			450			5	3					
Shawano County	USH 45 @ CTH G/Big Lake Rd			600			5	3					
Shawano County	USH 45 @ 4 lane to 2 lane transition									284			
Shawano County	Red Oak Lane to STH 29	3,120	2,870										
Shawano County	USH 45 @ STH 29			525			4	2		235	38	6	
	SUBTOTALS:	16,040	84,630							687	38		
	TOTALS:		100,670	1,675	37,672	1,725	28	12	50	725	38	12	

*Special Markings not required per SDD 15C8 will not be removed or replaced.

USH 45

USH 8 TO STH 32

3

3

LOCATION	IH 39	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	Comments
		Yellow	White	White	Type 2	White	White	
		LF	LF	LF	EACH	EACH	LF	
Oneida County	USH 45 from USH 8 to STH 32	84,994	172,600					Retrace all mini skips and by pass lanes
Oneida County	USH 45 @USH 8			89			37	
Oneida County	USH 45 @ Crystal Lake Rd			210				
Oneida County	USH 45 @Javen Rd			142				
Oneida County	USH 45 at STH 32			201	2	1	28	
	SUBTOTALS:	84,994	172,600					
	TOTALS:	257,594		642	2	1	65	

STH 29

SHAWANO COUNTY LINE TO USH 51

3

3

LOCATION	STH 29	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	646.8220 Island Nose Epoxy	Comments
		Yellow	White	White	Type 2	Type 3	White	White	Yellow	
		LF	LF	LF	EACH	Each	EACH	LF	EACH	
MARATHON COUNTY	USH 51 TO Marathon/Shawano Co.Line	227,779	341,669							
MARATHON COUNTY	STH 29 @ BUS 51	5,736	5,740	922	10	2	5	137		Do not replace chevrons in exit gores
MARATHON COUNTY	STH 29@ CTH X	5,410	5,480	483	4	2	2	120		
MARATHON COUNTY	CTH X @ STH 29			715				60	4	interchanging Roadway
MARATHON COUNTY	STH 29 @ CTH J	3,949	4,000	100				48	4	
MARATHON COUNTY	STH 29 @CTH Q	4,177	5,000	100				49		
MARATHON COUNTY	CTH Q @ STH 29			140					4	interchanging Roadway
MARATHON COUNTY	STH 29 @ CTH Y	2,620	4,000	50				90		Do not replace chevrons in exit gores
MARATHON COUNTY	CTH Y @ STH 29			200	4				4	Interchanging Roadway
MARATHON COUNTY	STH 29 @CTH D			960						
MARATHON COUNTY	STH 29 @ Birch Circle			384						
MARATHON COUNTY	STH 29 @ STH 49/Willow Dr			635						Do not replace chevrons in gore
MARATHON COUNTY	STH 49 @ STH 29			275				35		
MARATHON COUNTY	STH 29 @ Birch Circle			590						
MARATHON COUNTY	STH 29 @ CTH OO			359						
	SUBTOTALS:	249,671	365,889		18	4				
	TOTALS:	615,560	5,913		22		7	539	16	

*Special Markings not required per SDD 15C8 will not be removed or replaced.

USH 51 STH 29 TO CTH L

LOCATION	USH 51	646.1020 Line Epoxy 4-IN		646.3020 Line Epoxy 8-IN	646.1041.S Line WR Epoxy 4-IN	646.5020 Arrow Epoxy			646.5120 Word Epoxy	646.6120 Stop Line Epoxy 18-Inch	646.7120 Diagonal Epoxy 12-Inch	646.6220 Yield Line 18- Inch Epoxy	646.8220 Island Nose Epoxy	Comments
		Yellow	White	White	White	Type 1	Type 2	Type 3	White	White	White	White	Yellow	
		LF	LF	LF	LF	EACH	EACH	Each	EACH	LF	LF	Each	EACH	
Marathon/Lincoln Co	USH 51 SB from I39 to CTH S	201,590	201,590											Edgelines Only
Marathon/Lincoln Co	USH 51 NB from I39 to Oneida Co	257,390	280,790											Edgelines Only
Lincoln County	USH 51 from Lincoln Co Line to CTH K (Mile 205-211)				15,840									Lane Lines Only
Lincoln/Oneida Co	End of 4 lane to CTH L	21,992	67,162								240			
Marathon County	USH 51m@ Rib Mountain Dr/CTH N	4,163	4,510	900			6	4	2	58	150			See Detail
Marathon County	Rib Mountain Dr/CTH N @ USH 51						6		3	168				See Detail
Marathon County	USH 51 @ CTH NN	2,330	3,095	461			6	3	4	394				See Detail
Marathon County	CTH NN @ USH 51						4		2				4	See Detail
Marathon County	USH 51 @ Sherman St	1,238	1,300	250			4	2	2	25				
Marathon County	Sherman St @ USH51						4		2	110			4	
Marathon County	USH 51 @ STH 52	5,575	5,610	620			16	4	9	100				See Detail
Marathon County	STH 52 @ USH 51	33	1,600				8		4	110			4	See Detail
Marathon County	USH 51 @ Bridge St	3,644	4,340	585			6	4	3	55		10		See Detail
Marathon County	Bridge St @ USH 51		60			2	4		4	180			4	See Detail
Marathon County	USH 51 @ CTH U	1,378	1,378	202			2		1	41				See Detail
Marathon County	CTH U @ USH 51						1		1				4	
Marathon County	CTH K Interchange	4,393	5,955											
Marathon County	CTH WW Interchange	6,469	6,463	210						91				
Lincoln County	CTH Q Interchange	4,019	4,019							100				
Lincoln County	USH 51 @ STH 64	5,157	5,158				2		2	90				
Lincoln County	STH 64 @ USH 51						2		2					
Lincoln County	CTH K Interchange	4,526	4,526							70				
Lincoln County	Lincoln Drive			382						36				
Lincoln County	CTH K			667									2	
Lincoln County	CTH J			467										
Lincoln County	CTH V			220										
Lincoln County	Tamarack Ln			205										
Lincoln County	USH 51 @ CTH S	5,592	5,362	230			2		2	106				
Lincoln County	CTH S @ USH 51			225			2		2				4	
Lincoln County	CTH D Interchange	3,849	3,849							87				
Lincoln County	CTH A interchange	5,043	5,043							84				
Lincoln County	USH 8 Interchange	4,890	3,499							89				
Oneida County	CTH L			460			2		1	35	120			
SUBTOTALS:		543,271	615,309			2	77	17						
TOTALS:		1,158,580		6,084	15,840		96		46	2,029	510	10	26	

USH 51/ STH 70 WB INTERSECTION

MINOQUA- SPECIAL MARKIGNS ONLY

LOCATION	Minocqua	646.5020	646.5120	646.6120	646.7120		646.8220	Comments
		Arrow	Word	Stop Line	Diagonal		Island Nose	
		Epoxy	Epoxy	Epoxy 18-Inch	Epoxy 12-Inch		Epoxy	
		Type 2	White	White	Yellow	White	Yellow	
		EACH	EACH	LF	LF	LF	EACH	
Onieda County	STH 70 W @ USH 51	2	1	66		150	2	
Onieda County	USH 51NB @ STH 70 WB	4	2	50	90		2	
Onieda County	USH 51 SB @ STH 70 WB	2	1	30		190	2	
	SUBTOTALS:				90	340		
	TOTALS:	8	4	146		430	6	

3

3

STH 54

EAST OF STH 22/110 TO USH 45 NB OFF RAMP

3

3

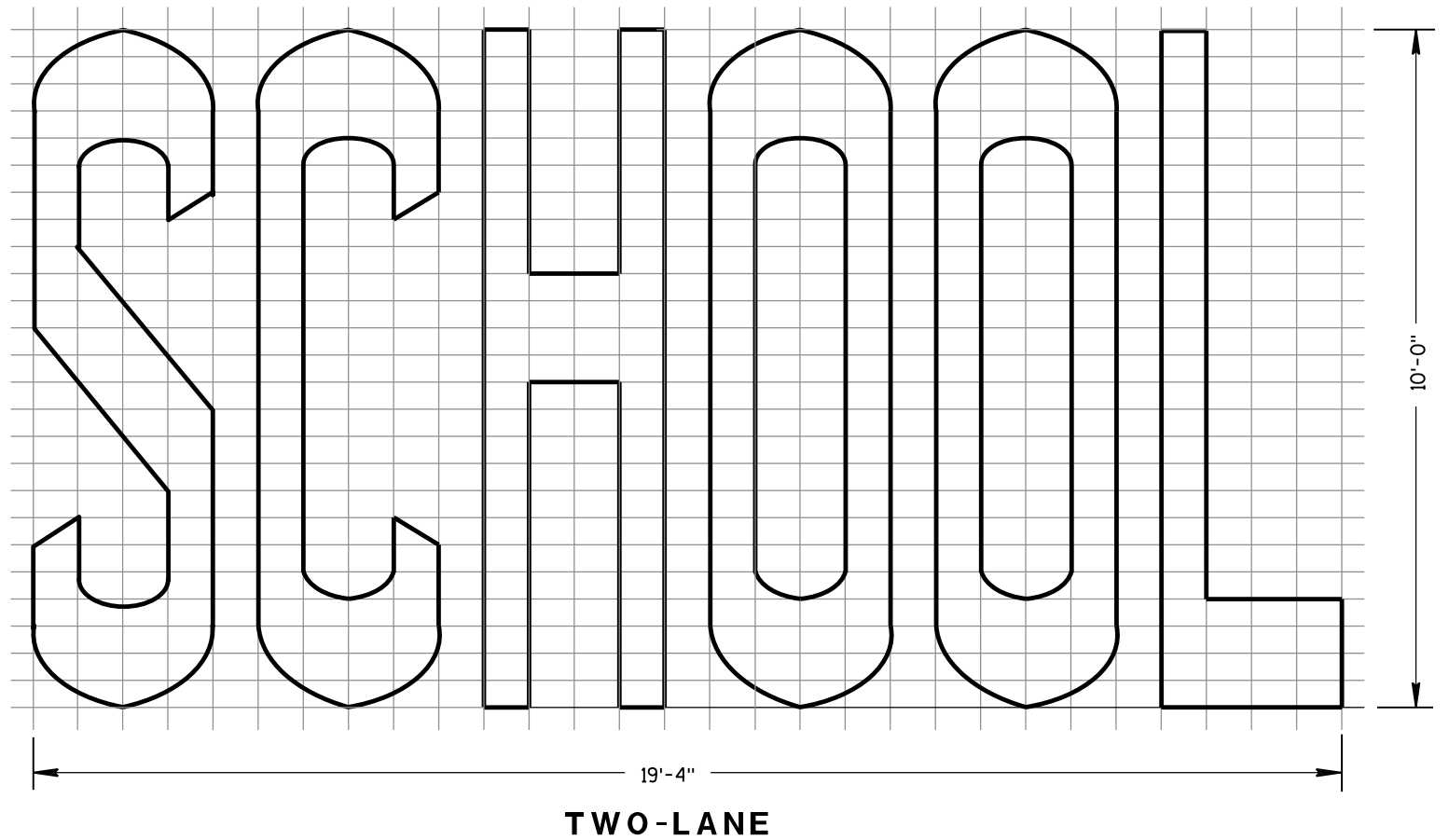
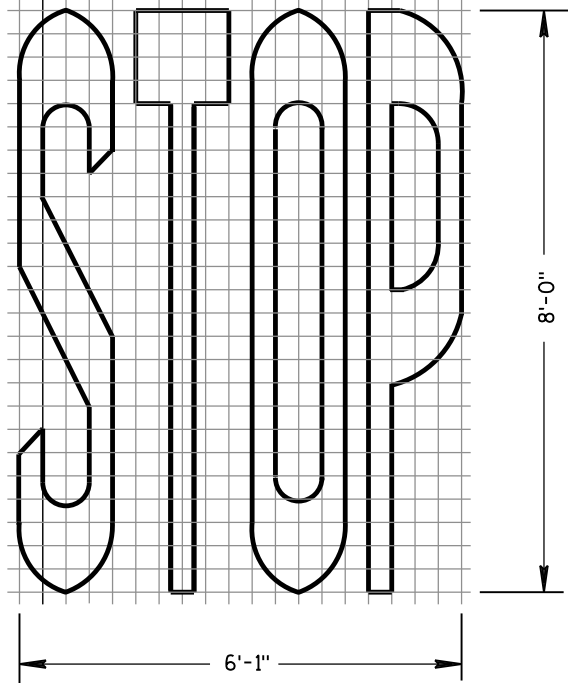
LOCATION	STH 54	646.1020 Line Epoxy 4-IN		646.3020 Line Epoxy 8-IN	646.5020 Arrow Epoxy	646.5120 Word Epoxy	646.6120 Stop Line Epoxy 18-Inch	646.7120 Diagonal Epoxy 12-Inch	646.8220 Island Nose Epoxy	Comments
		Yellow	White	White	Type 2	White	White	Yellow	Yellow	
		LF	LF	LF	EACH	EACH	LF	LF	EACH	
Waupaca County	East of STH 22/110 To Jeanne St	53,406								Centerline only
Waupaca County	Jeanne St to 45 NB off Ramp	8,231	9,899					90	8	
Waupaca County	USH 54 @ CTH D/N. Shawano St			420	4	4	145			
Waupaca County	USH 45 SB Turn Lanes			181						
Waupaca County	USH 45 NB Turn Lanes			200						
	<i>SUBTOTALS:</i>	<i>61,637</i>	<i>9,899</i>							
	TOTALS:	71,536		601	4	4	145	90	8	

Standard Detail Drawing List

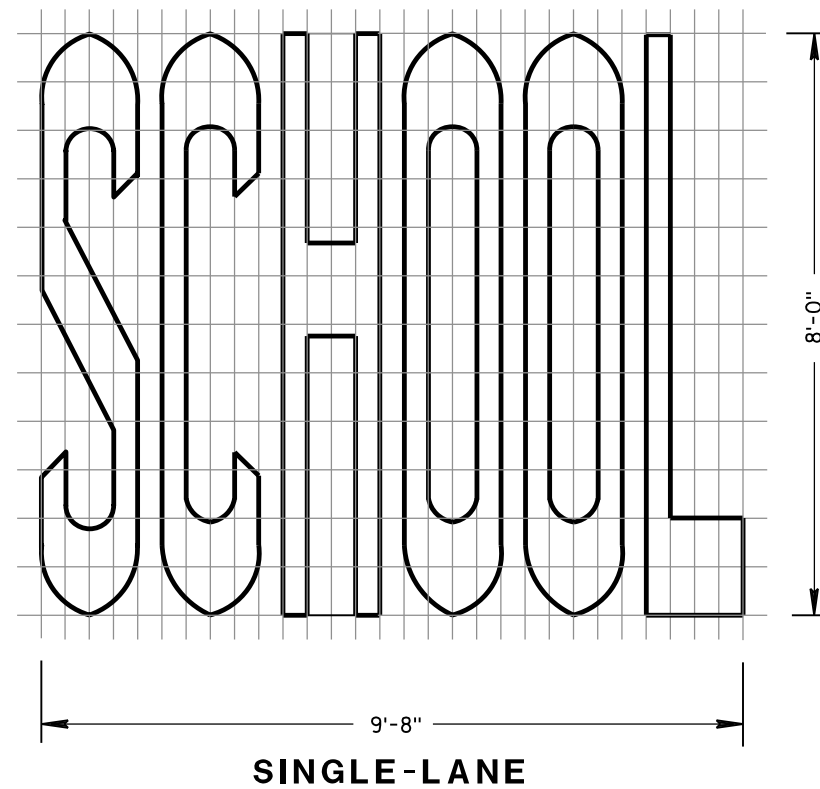
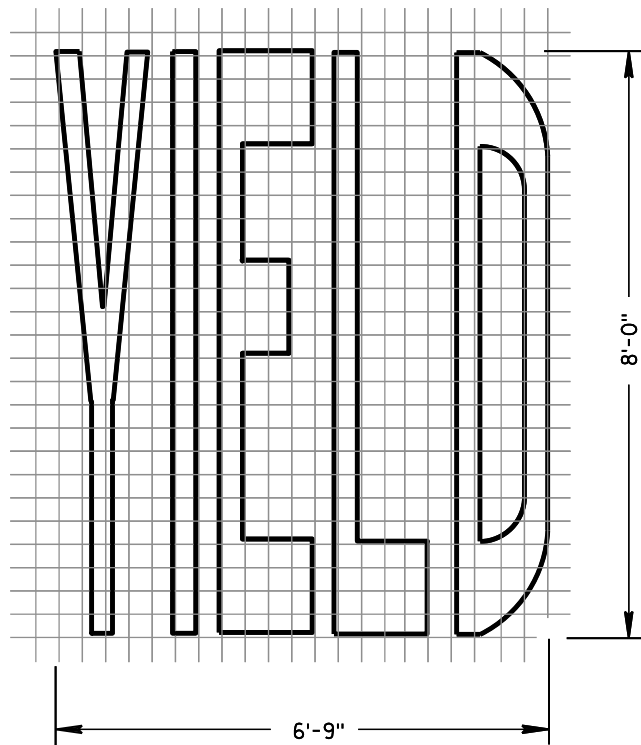
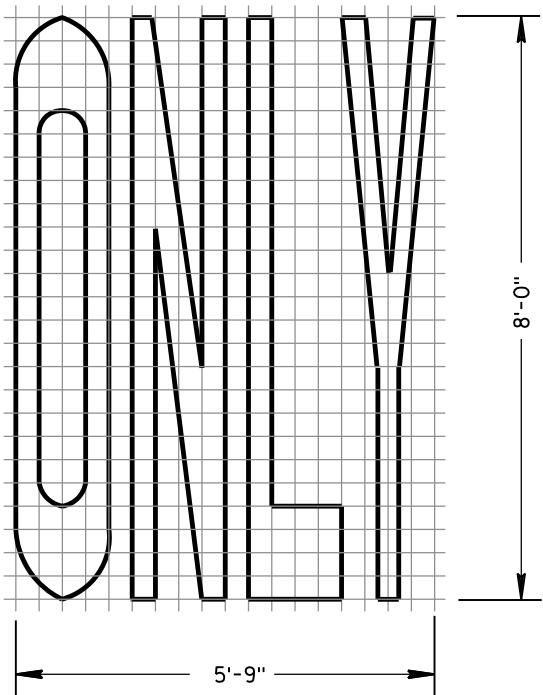
15C07-14B	PAVEMENT MARKING WORDS
15C07-14C	PAVEMENT MARKING ARROWS
15C08-19A	LONGITUDINAL MARKING (MAINLINE)
15C08-19B	PAVEMENT MARKING (TURN LANES)
15C08-19C	PAVEMENT MARKING (TURN LANES)
15C11-07A	CHANNELIZING DEVICES FLEXIBLE TUBULAR MARKER POST
15C11-07B	CHANNELIZING DEVICES DRUMS, CONES, BARRICADES AND VERTICAL PANELS
15C12-07	TRAFFIC CONTROL FOR LANE CLOSURE WITH FLAGGING OPERATION
15C18-04	MEDIAN ISLAND MARKING
15C19-05A	MOVING PAVEMENT MARKING OPERATION TWO-LANE TWO-WAY ROADWAY
15C19-05B	MOVING PAVEMENT MARKING OPERATION MULTI-LANE UNDIVIDED ROADWAY
15C19-05C	MOVING PAVEMENT MARKING OPERATION MULTI-LANE DIVIDED ROADWAY
15C20-02	YIELD MARKING
15C21-08	SIGNING AND MARKING FOR TWO LANE TO FOUR LANE DIVIDED TRANSITIONS
15C27-03B	PAVEMENT MARKING (ISLANDS)
15D20-04	TRAFFIC CONTROL, SINGLE LANE CLOSURE, NON-FREEWAY/EXPRESSWAY

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.



TWO-LANE

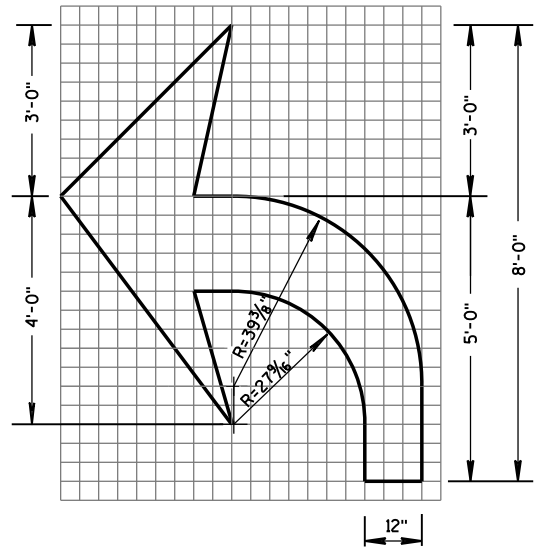


SINGLE-LANE

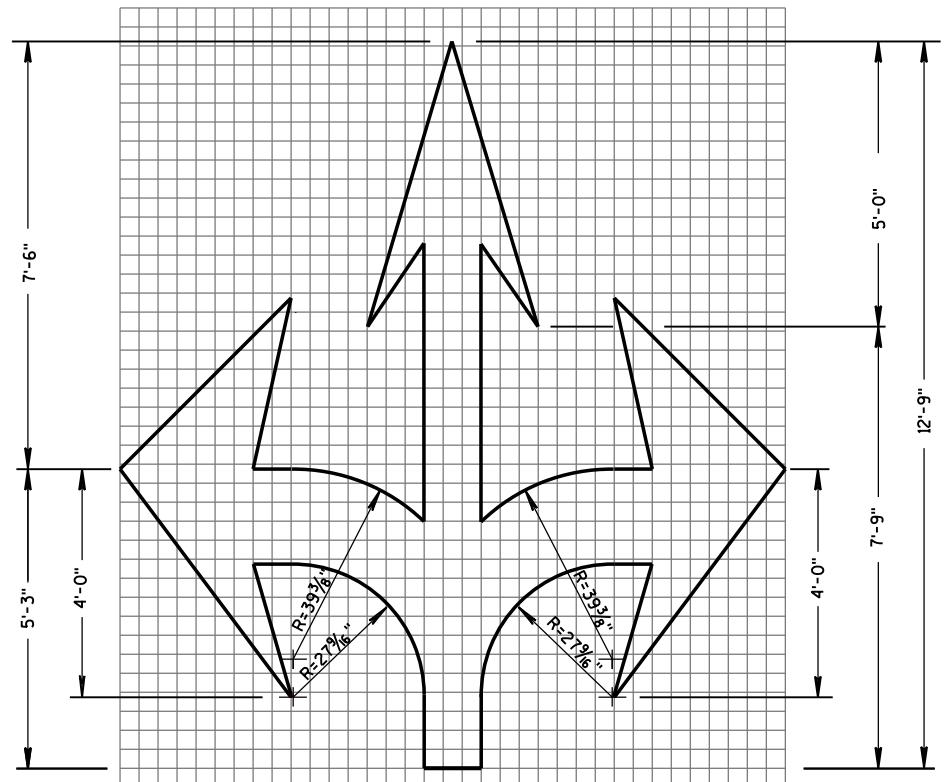
PAVEMENT MARKING WORDS

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

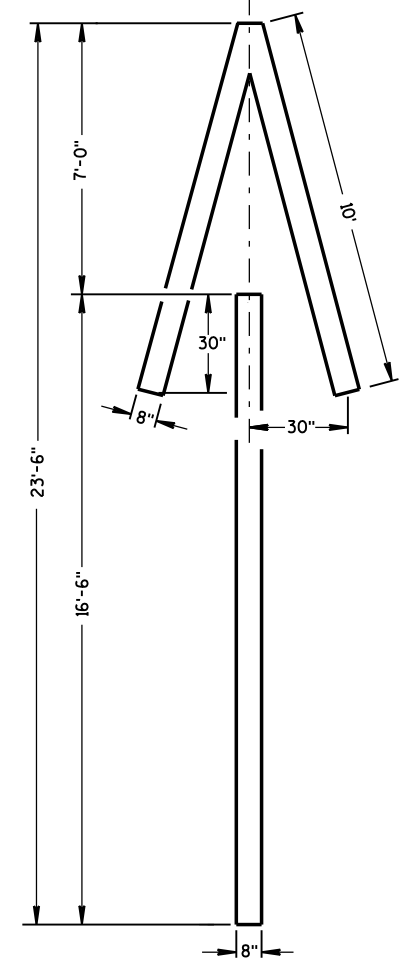
APPROVED
June 2017 /S/ Matthew R. Rauch
DATE STATE SIGNING AND MARKING ENGINEER
FHWA



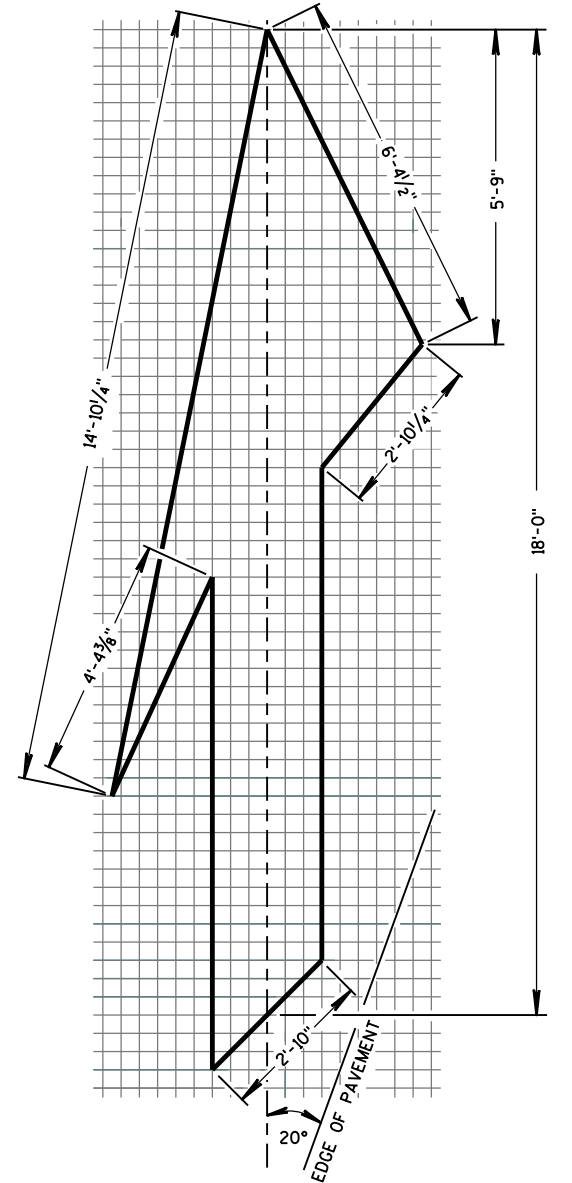
TYPE 2



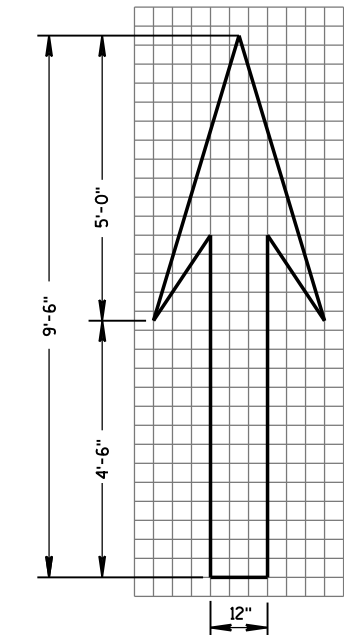
TYPE 6



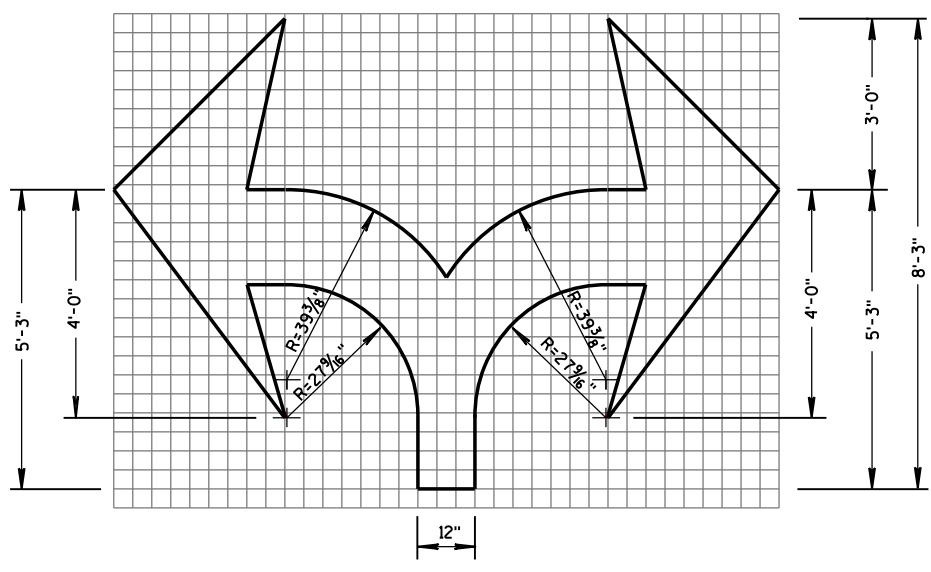
TYPE 4



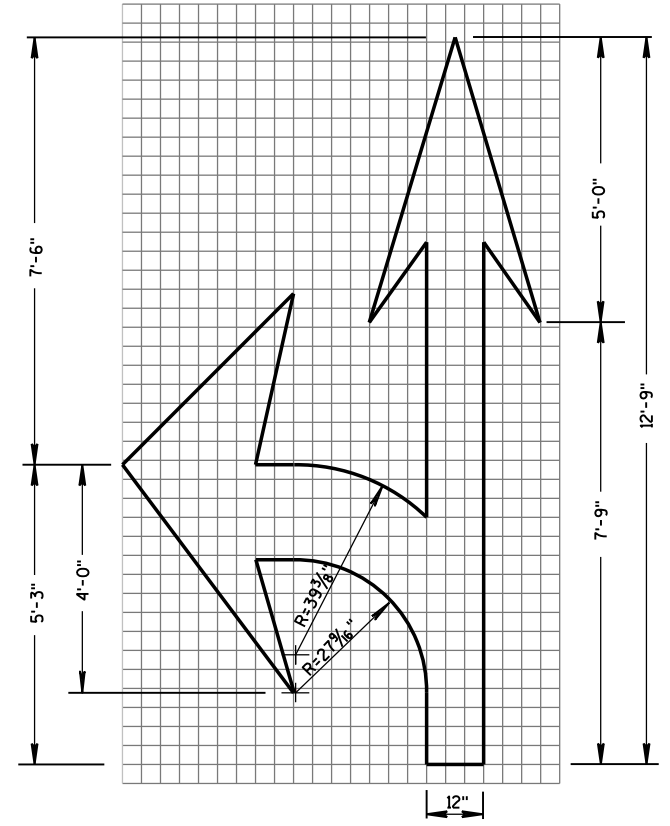
TYPE 5 LANE DROP ARROW



TYPE 1



TYPE 7

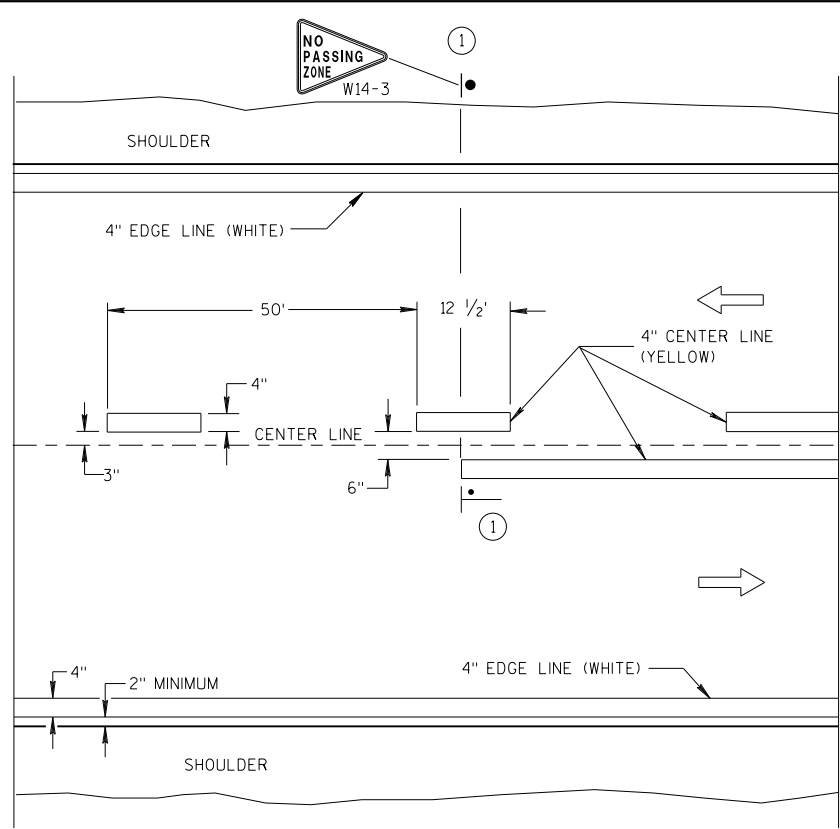


TYPE 3

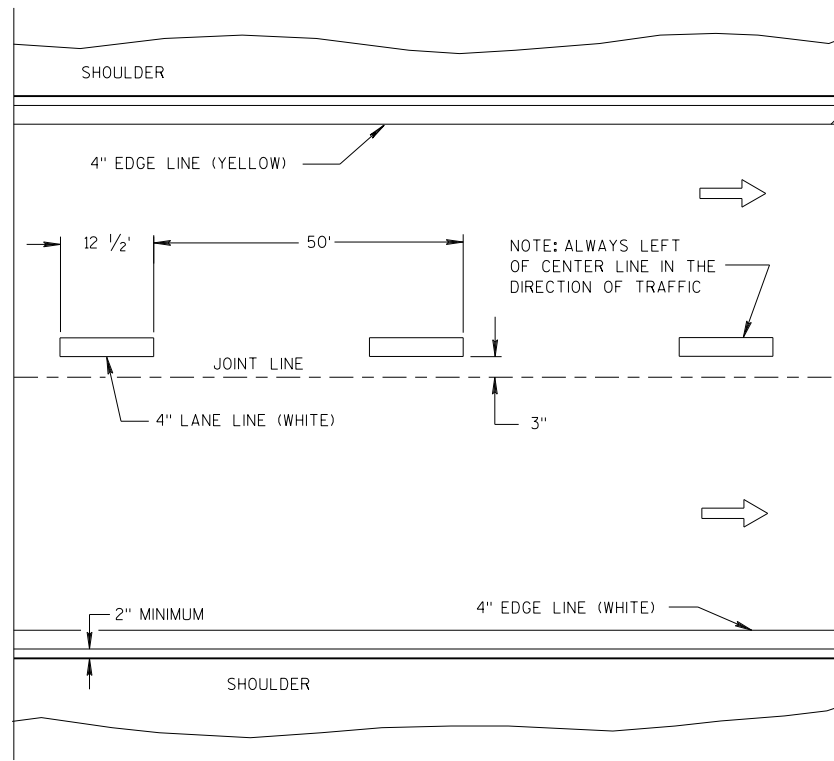
GENERAL NOTES

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

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

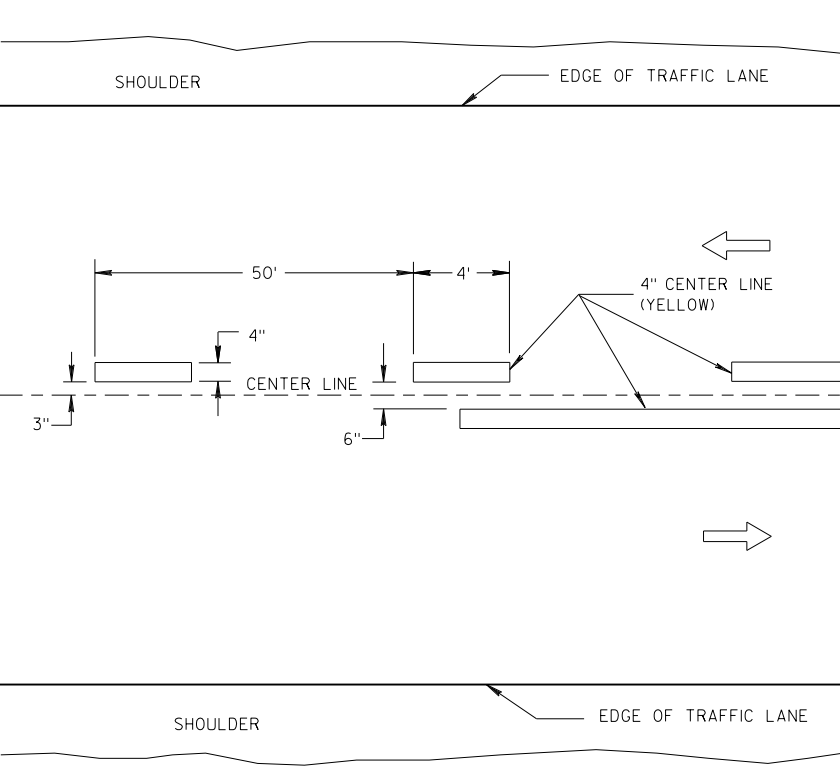


TWO WAY TRAFFIC

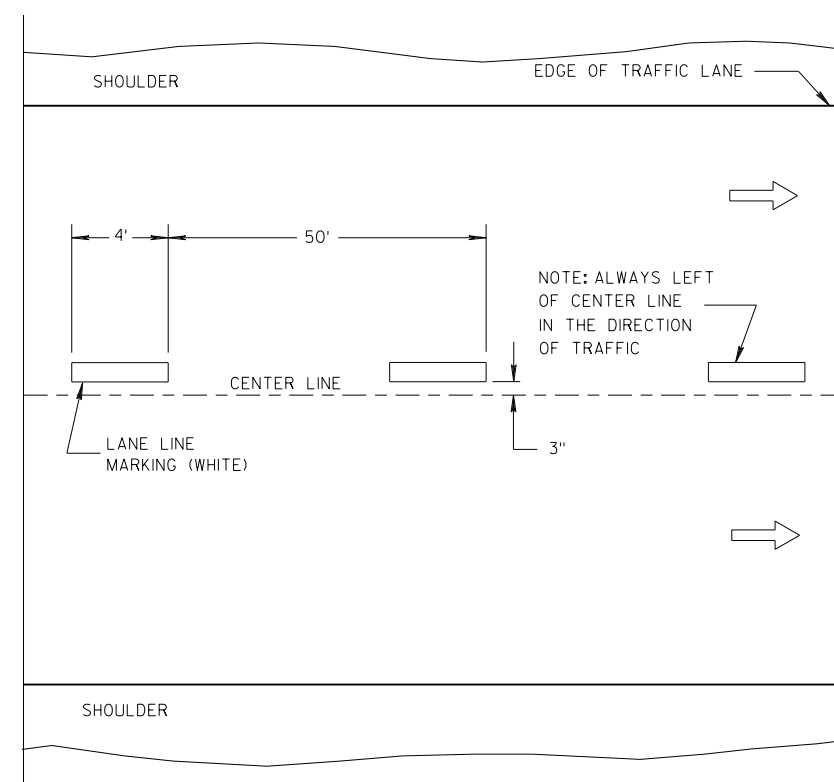


ONE WAY TRAFFIC

PERMANENT PAVEMENT MARKING



TWO WAY TRAFFIC



ONE WAY TRAFFIC

TEMPORARY PAVEMENT MARKING

GENERAL NOTES

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

① LOCATE THE NO PASSING ZONE W14-3 SIGN WITHIN 50 FEET OF THE "T" MARKING.

NOTE

ARROW SYMBOL (→) SHOWS DIRECTION OF TRAVEL

LEGEND

- "T" MARKING
- POST MOUNTED SIGN

LONGITUDINAL MARKING (MAINLINE)

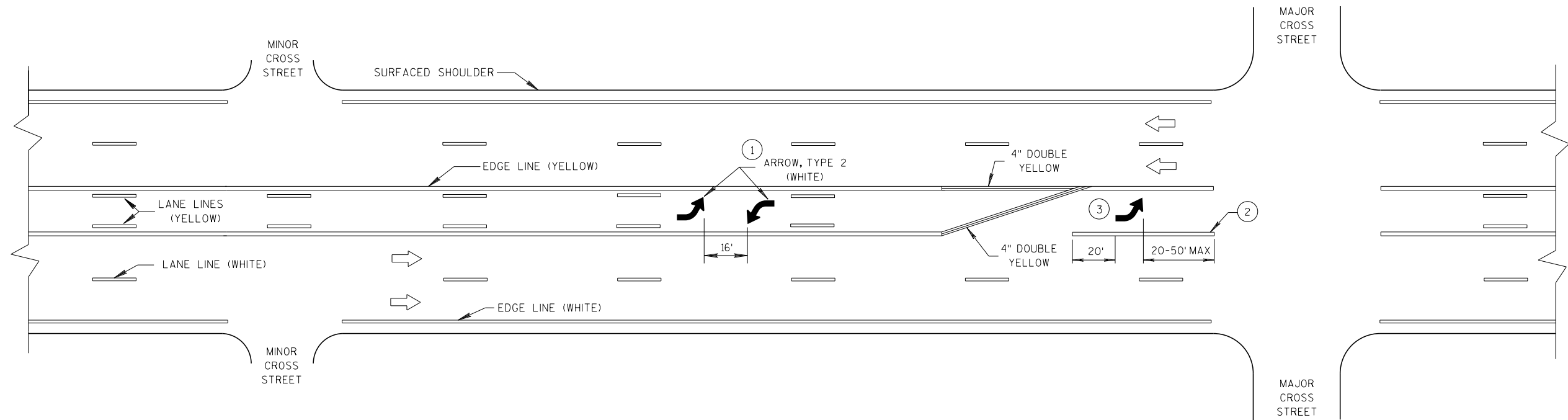
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

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

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



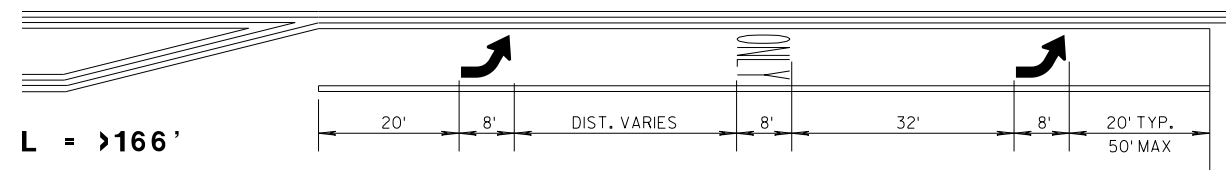
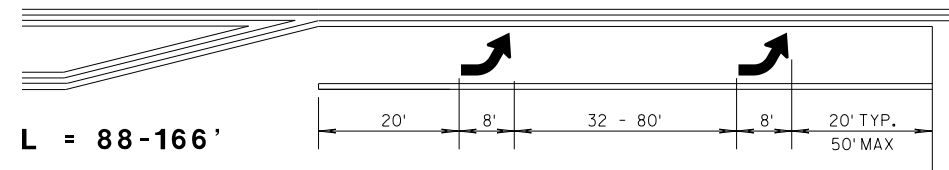
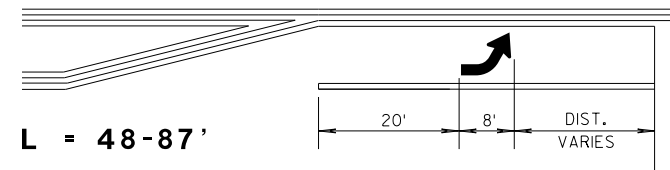
TWO WAY LEFT TURN LANE

6

6

TURN LANE OPTIONS

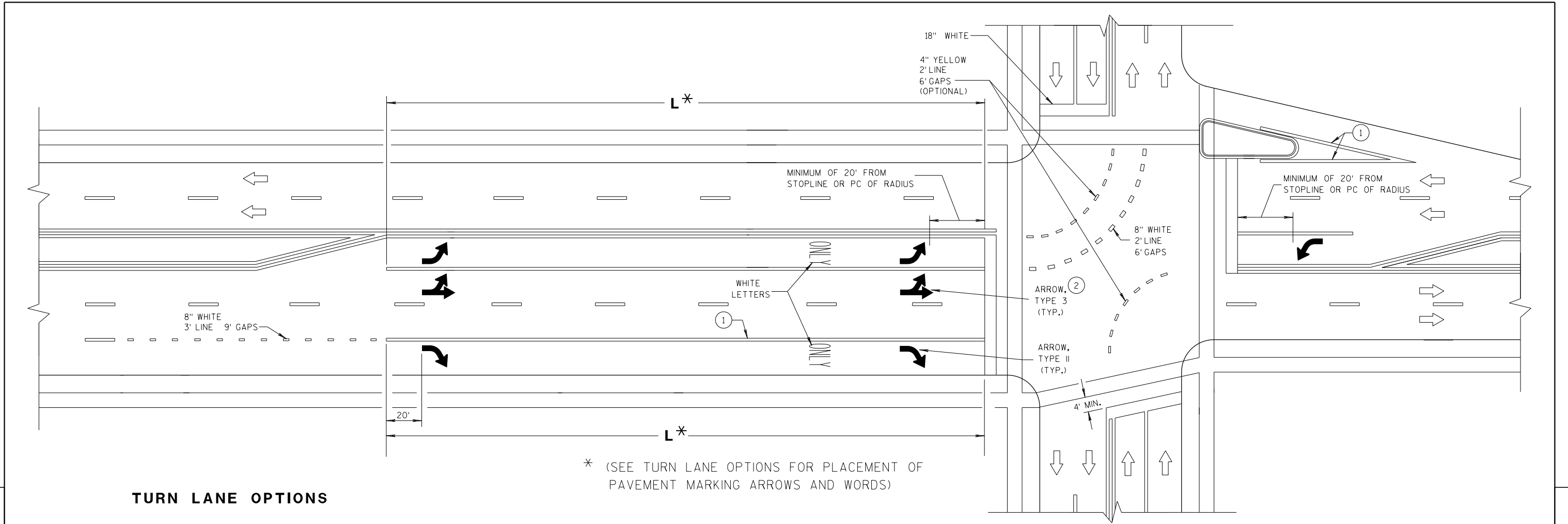
LENGTH OF TURN BAY (L) OF 0-47' DOES NOT REQUIRE PAVEMENT MARKING ARROWS OR WORDS



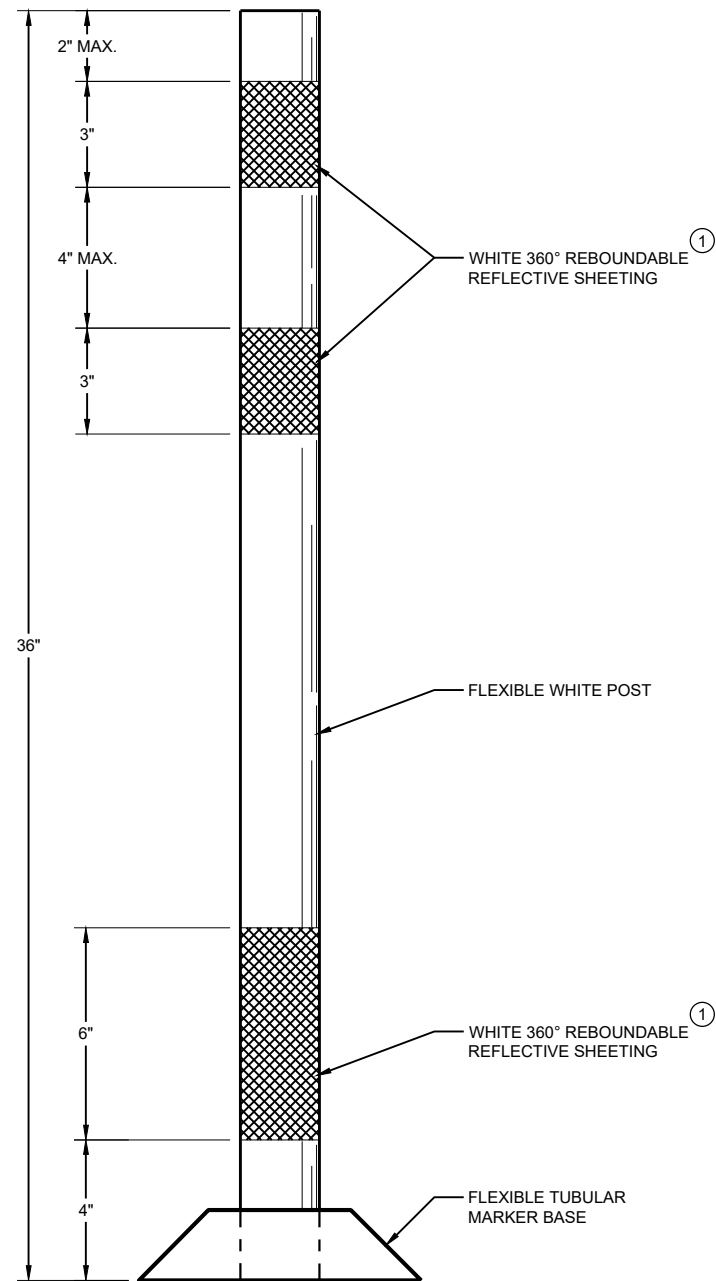
* (SEE TURN LANE OPTIONS FOR PLACEMENT OF PAVEMENT MARKING ARROWS AND WORDS)

GENERAL NOTES

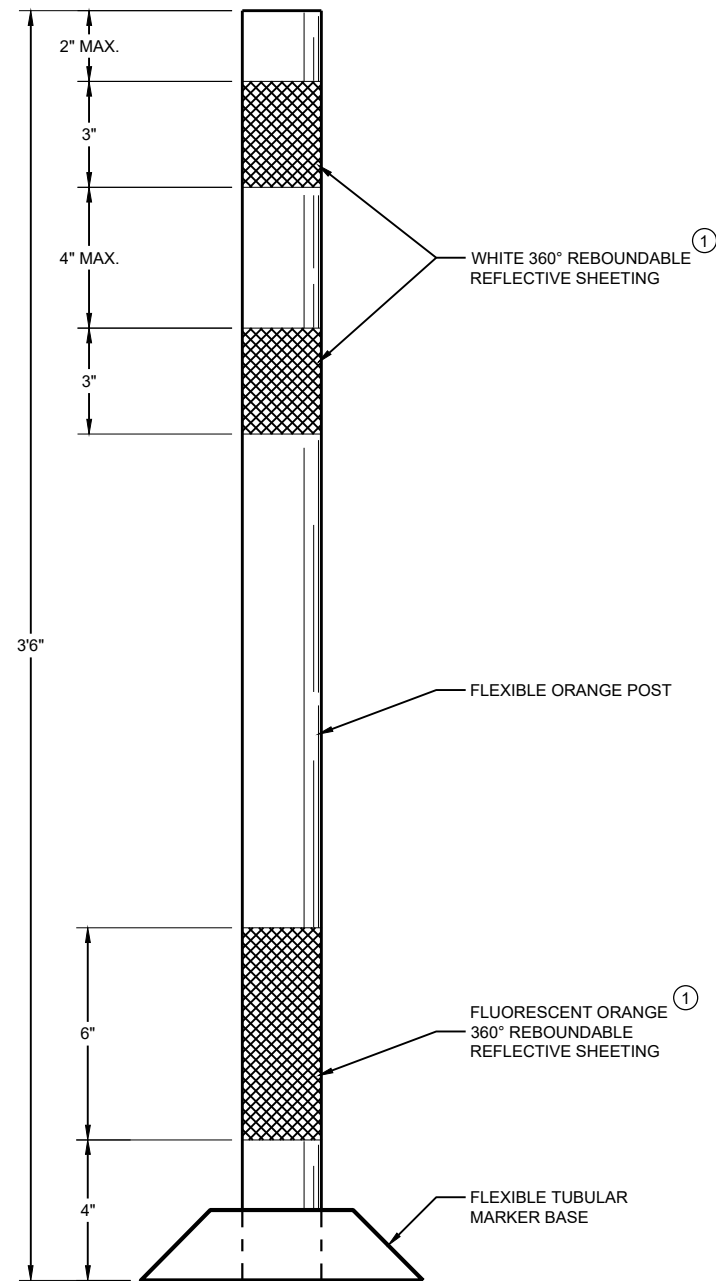
- ① 8" WHITE
- ② QUANTITY AND LOCATION OF TYPE 3 ARROW ARE THE SAME AS THE TYPE II ARROWS IN THE ADJACENT TURN LANE. FOR TURN LANES WITH A PHYSICAL SEPARATION, THE ARROWS AND ONLY MARKING ARE ELIMINATED.
- ➔ DIRECTION OF TRAFFIC
- L = LENGTH OF TURN BAY



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



**FLEXIBLE TUBULAR
MARKER POST
PERMANENT CROSSOVER**



**FLEXIBLE TUBULAR
MARKER POST
WORK ZONE**

GENERAL NOTES

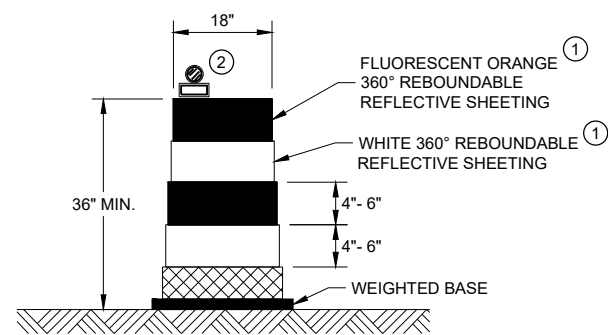
DETAILS OF CONSTRUCTION NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS AND THE APPLICABLE SPECIAL PROVISIONS.

SURFACE MOUNTED BASES SHALL BE FURNISHED IN ACCORDANCE WITH MANUFACTURERS RECOMMENDATIONS TO BE COMPATIBLE WITH FLEXIBLE TUBULAR MARKER POSTS TO A SIZE AND SHAPE THAT WILL PROVIDE A STABLE POST FOUNDATION WHEN SECURED TO THE PAVEMENT.

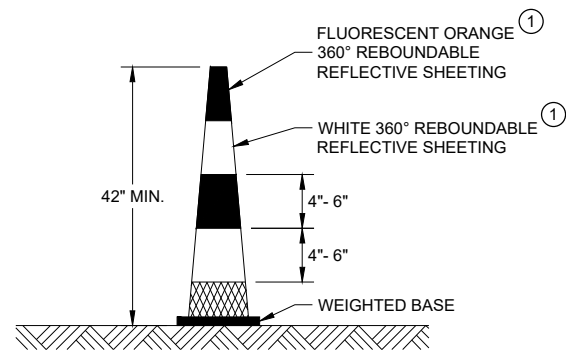
THE ASPHALTIC ADHESIVE OR BUTYL PAD FURNISHED SHALL BE IN ACCORDANCE WITH MANUFACTURERS RECOMMENDATIONS, UNLESS DIRECTED BY THE ENGINEER TO USE BOLTS.

① REFLECTIVE SHEETING SHALL FOLLOW THE REQUIREMENTS IN THE APPROVED PRODUCTS LISTING FOR SIGN SHEETING.

CHANNELIZING DEVICES FLEXIBLE TUBULAR MARKER POST	
STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION	
APPROVED June 2017 DATE	/S/ Andrew Heidtke WORK ZONE ENGINEER
<small>FHWA</small>	

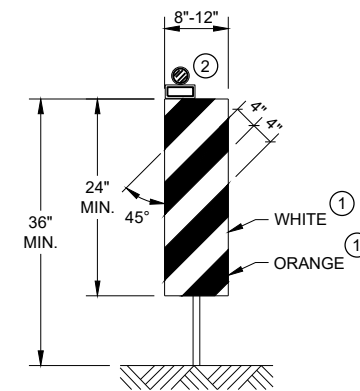


DRUM



42" CONE

DO NOT USE IN TAPERS
1/2 SPACING OF DRUMS

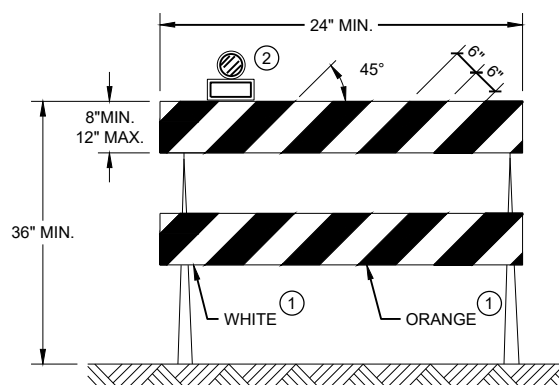


VERTICAL PANEL

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

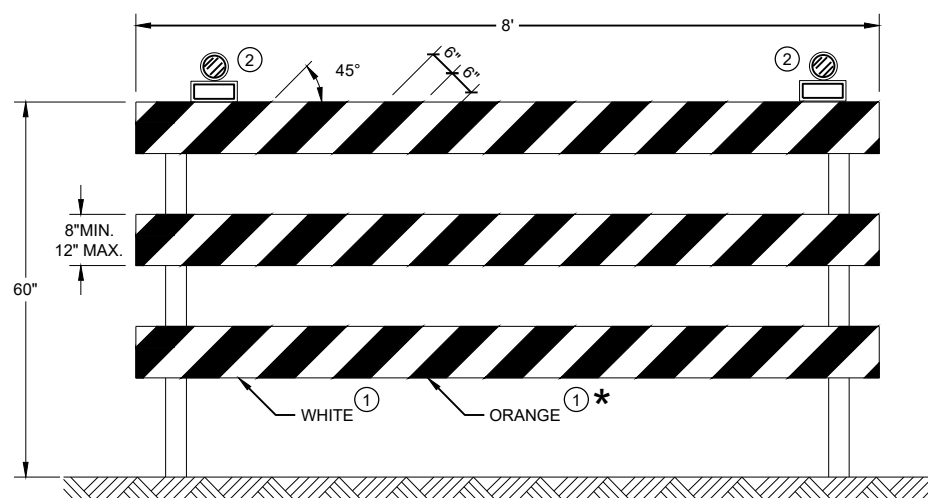
GENERAL NOTES

- 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.



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 June 2017 DATE	/S/ Andrew Heidtke WORK ZONE ENGINEER
<small>FHWA</small>	

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.

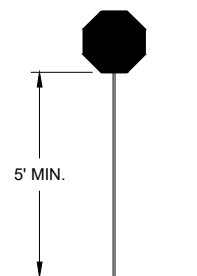
WHEN A SIDE ROAD OR RAMP INTERSECTS THE FACILITY ON WHICH THE WORK IS BEING PERFORMED, ADDITIONAL TRAFFIC CONTROLS SHALL BE PROVIDED AS SPECIFIED IN THE PLANS AND/OR THE SPECIAL PROVISIONS OR AS APPROVED BY THE ENGINEER.

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 SPACED ACCORDING TO MANUFACTURER'S RECOMMENDATION, PLACED TRANSVERSE ACROSS THE LANE AT LOCATIONS SHOWN.
- ONLY USE TEMPORARY PORTABLE RUMBLE STRIPS FOR THE APPROVED PRODUCTS LIST.
- INSTALL TEMPORARY RUMBLE STRIPS PER MANUFACTURER'S RECOMMENDATIONS.
- PLACE ADVANCE SIGNING PRIOR TO INSTALLING TEMPORARY RUMBLE STRIPS.
- DO NOT INSTALL TEMPORARY PORTABLE RUMBLE STRIPS ON GRAVEL, MILLED SURFACES, OR ASPHALT THAT HAS BEEN PAVED LESS THAN 12 HOURS.



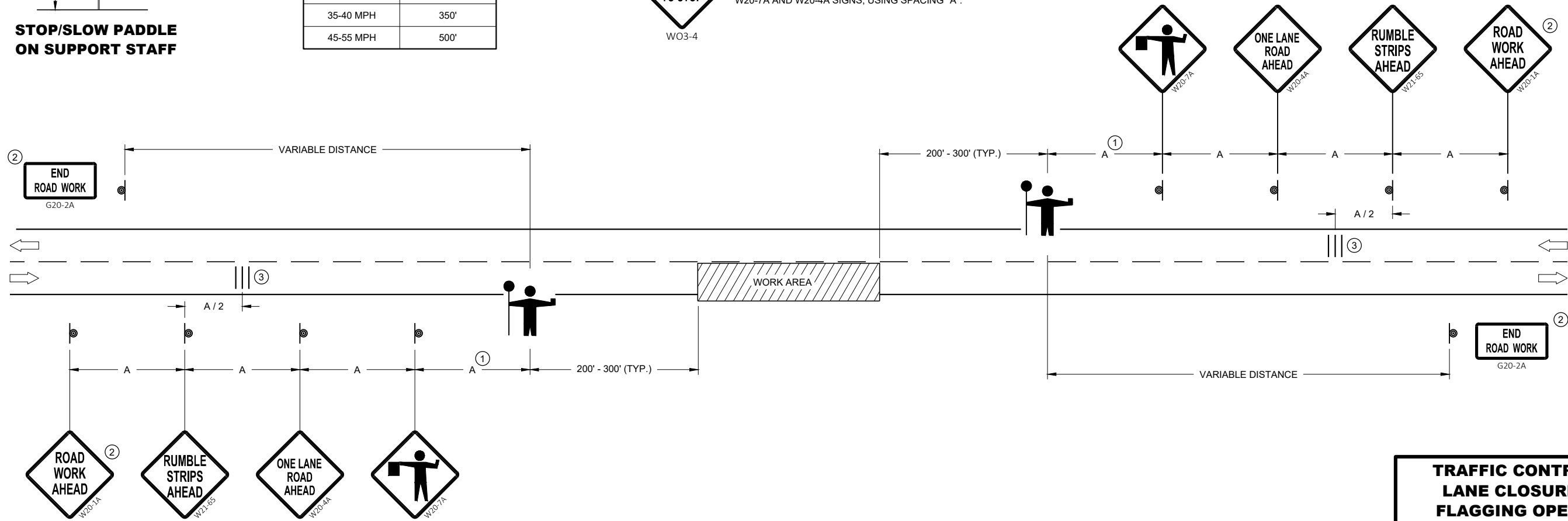
STOP/SLOW PADDLE ON SUPPORT STAFF

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".



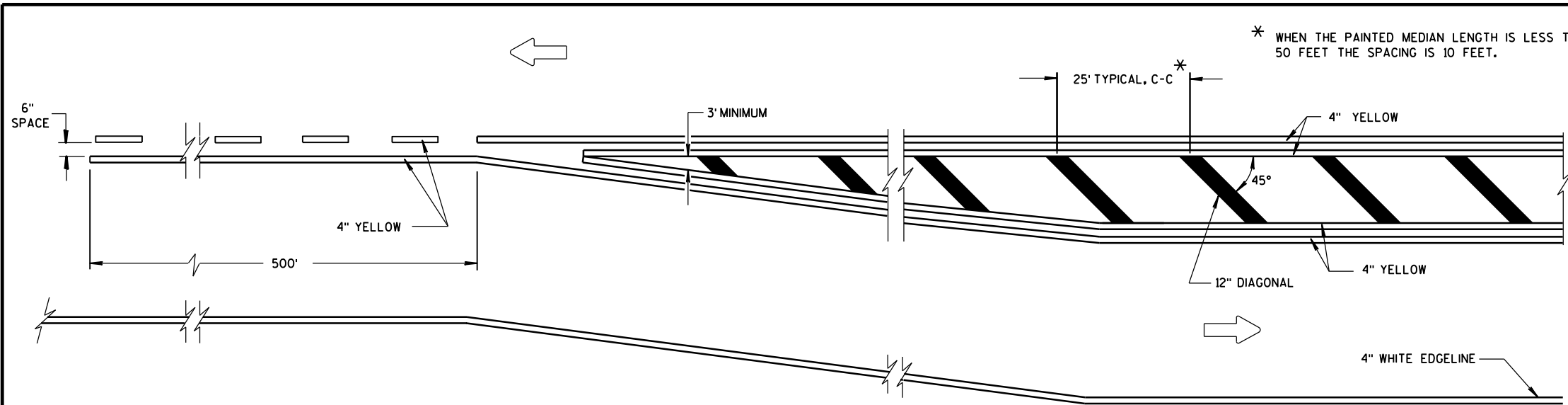
TRAFFIC CONTROL FOR LANE CLOSURE WITH FLAGGING OPERATION

TRAFFIC CONTROL FOR LANE CLOSURE WITH FLAGGING OPERATION

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

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

FHWA

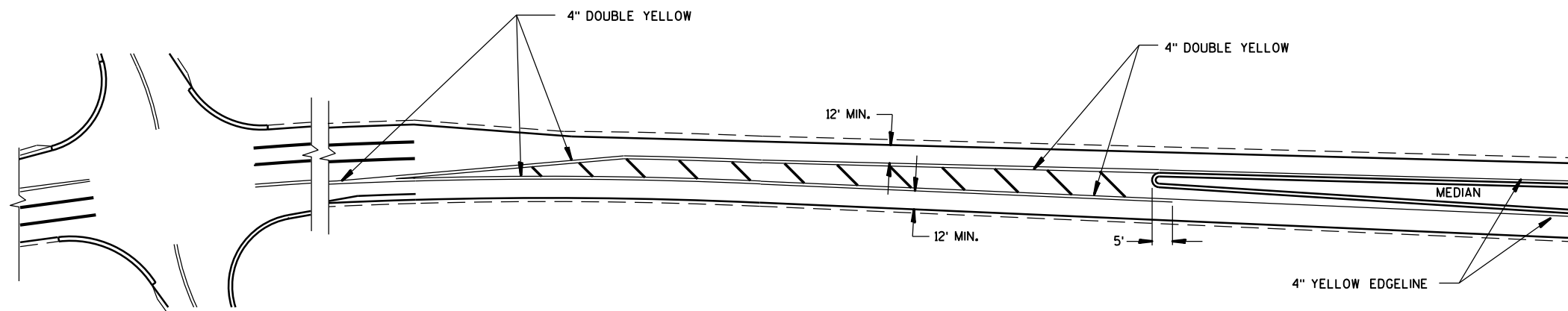


GENERAL NOTE

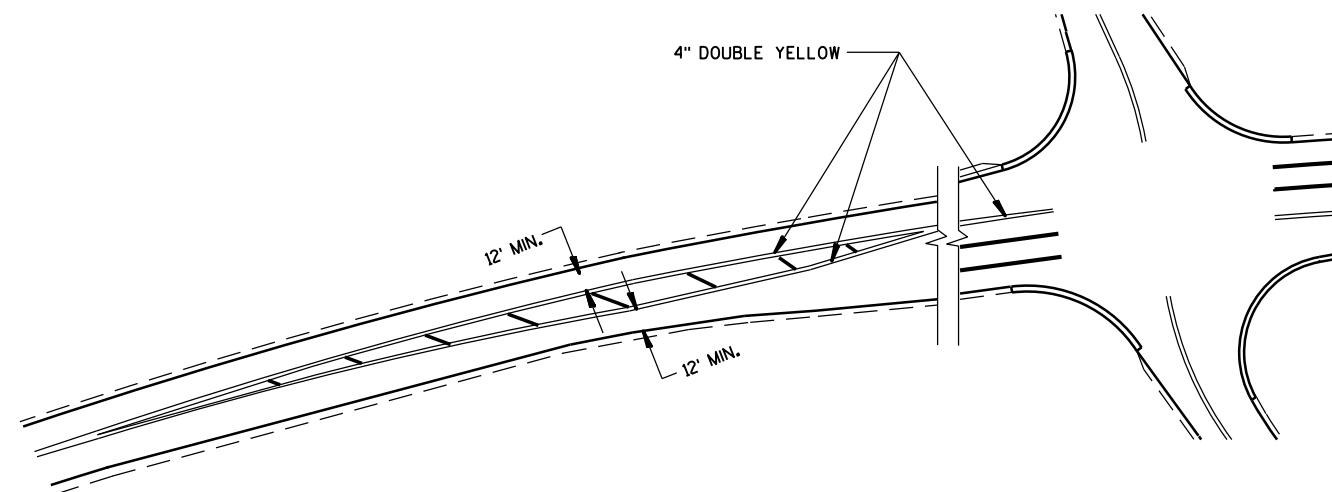
DIAGONALS ARE OPTIONAL WHEN PAINTED ISLAND IS LESS THAN 6 FEET AT WIDEST POINT.

➔ DIRECTION OF TRAVEL

MEDIAN ISLAND DETAIL



APPROACH MARKINGS FOR OTHER MEDIAN TYPES



NON APPROACH MARKINGS

6

6

S.D.D. 15 C 18-4

S.D.D. 15 C 18-4

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

GENERAL NOTES

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

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

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

IF SPEED LIMIT IS 40 MPH OR LESS STATIONARY SIGNS MAY BE OMITTED IF CONES ARE USED.



ALTERNATE SIGN MESSAGES, SUCH AS "PAINT CREW AHEAD" OR "ROAD PAINTING AHEAD" MAY BE USED.

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






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

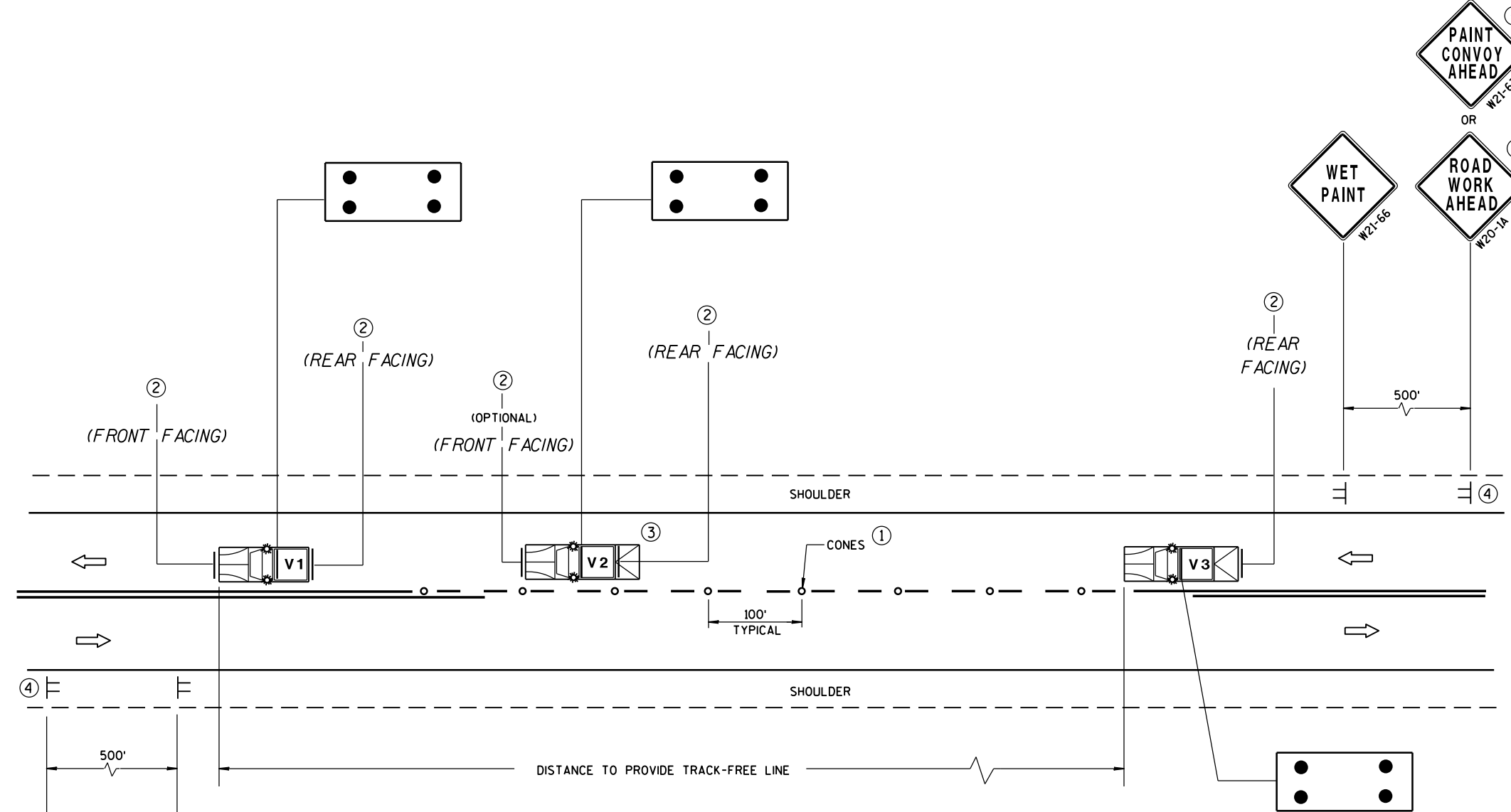
THIS DRAWING SHALL BE USED FOR CENTERLINE OR EDGELINE MARKING.

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

- ① CONES MAY BE OMITTED ON PAINTED LINE IF APPROVED BY THE ENGINEER. CONSIDER PAVEMENT MARKING DRY OR CURE TIMES AND TRAFFIC VOLUME.
- ② USE STANDARD SIGN W21-64 WITH APPROPRIATE ARROW.
 OR 
- ③ OPTIONAL TRUCK-MOUNTED ATTENUATOR.
- ④ SIGNS SHALL BE REPEATED APPROXIMATELY EVERY THREE MILES.
- ⑤ IF CONSTRUCTION WORK ZONE SIGNS ARE IN PLACE, W20-1 OR W21-63 ARE NOT REQUIRED.

LEGEND

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



MOVING PAVEMENT MARKING OPERATIONS TWO-LANE TWO-WAY ROADWAY

MOVING PAVEMENT MARKING
OPERATION
TWO-LANE TWO-WAY ROADWAY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

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

GENERAL NOTES

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

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

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

IF SPEED LIMIT IS 40 MPH OR LESS STATIONARY SIGNS MAY BE OMITTED IF CONES ARE USED.

ALTERNATE SIGN MESSAGES, SUCH AS "PAINT CREW AHEAD" OR "ROAD PAINTING AHEAD" MAY BE USED.

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

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

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

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

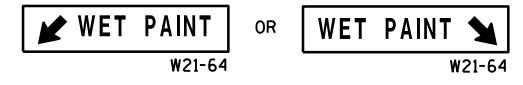
FOR EDGELINE MARKING OR IF CONES ARE NOT USED, POSITION THE REAR MOST SHADOW VEHICLE ON THE SHOULDER AS SHOWN IN THE MUTCD IF THE SHOULDER HAS ADEQUATE WIDTH.

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

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

① CONES MAY BE OMITTED ON PAINTED LINE IF APPROVED BY THE ENGINEER. CONSIDER PAVEMENT MARKING DRY OR CURE TIMES AND TRAFFIC VOLUME.

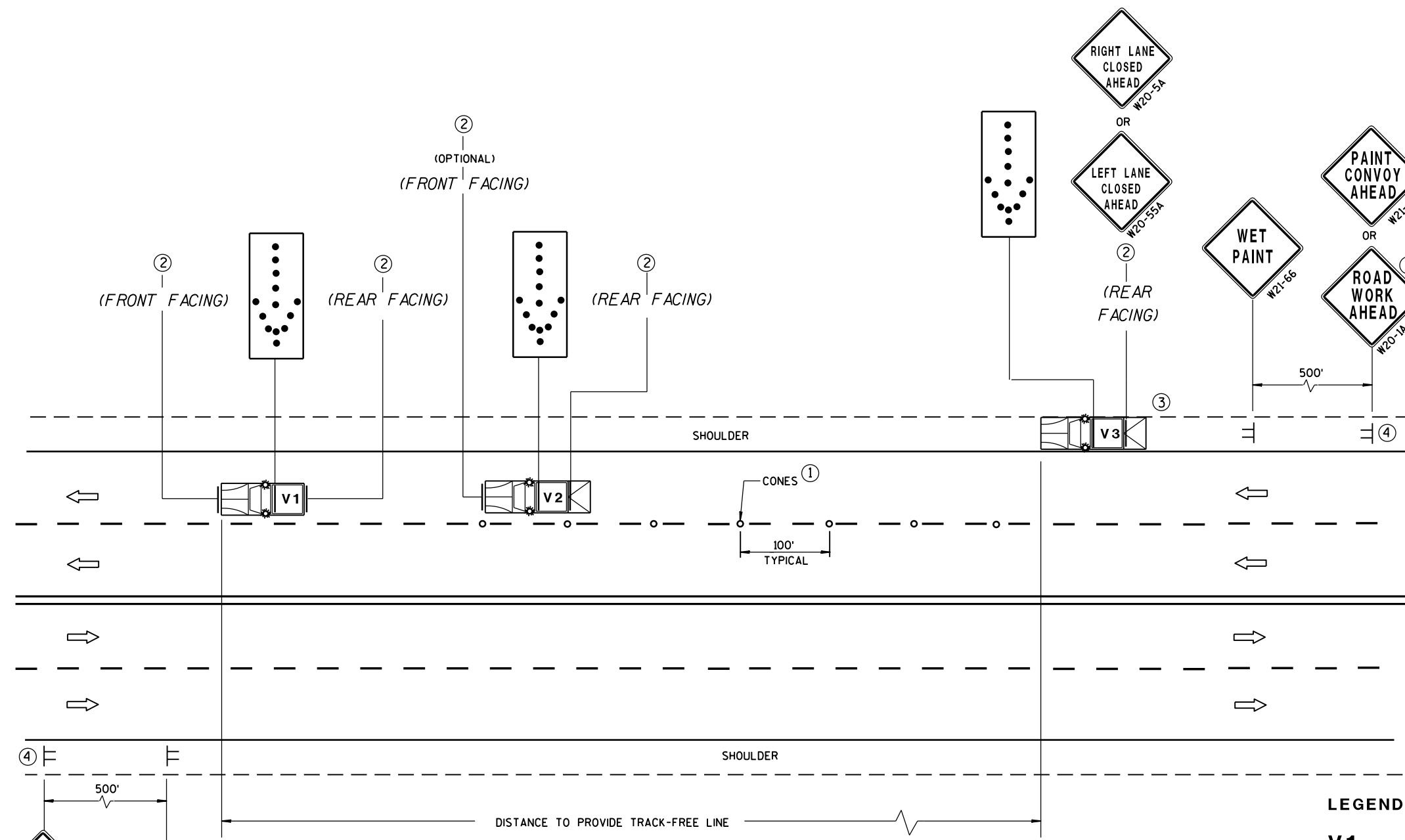
② USE STANDARD SIGN W21-64 WITH APPROPRIATE ARROW.



③ OPTIONAL TRUCK-MOUNTED ATTENUATOR.

④ SIGNS SHALL BE REPEATED APPROXIMATELY EVERY THREE MILES.

⑤ IF CONSTRUCTION WORK ZONE SIGNS ARE IN PLACE, W20-1 OR W21-63 ARE NOT REQUIRED.



MOVING PAVEMENT MARKING OPERATIONS MULTI-LANE UNDIVIDED ROADWAY

LEGEND

V1 LEAD VEHICLE

V2 SHADOW VEHICLE

V3 TRAIL VEHICLE WITH TMA

TMA TRUCK-MOUNTED ATTENUATOR

Sign on temporary support

Direction of traffic

Cones

Flashing arrow panel (merge)

MOVING PAVEMENT MARKING OPERATION MULTI-LANE UNDIVIDED ROADWAY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

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

GENERAL NOTES

ALL VEHICLES SHALL BE EQUIPPED WITH TWO 360 DEGREE HIGH INTENSITY YELLOW FLASHING LIGHTS OR STROBE LIGHTS AND OPERATED WITH HEADLIGHTS TURNED ON.
 ALL VEHICLES SHALL BE EQUIPPED WITH REAR FACING TYPE B OR C FLASHING ARROW PANEL. SIGNS PLACED ON VEHICLES MUST NOT OBSCURE THE ARROW PANEL.
 ALL SIGNS ARE 48" X 48" UNLESS OTHERWISE SPECIFIED.
 IF SPEED LIMIT IS 40 MPH OR LESS STATIONARY SIGNS MAY BE OMITTED IF CONES ARE USED.
 ALTERNATE SIGN MESSAGES, SUCH AS "PAINT CREW AHEAD" OR "ROAD PAINTING AHEAD" MAY BE USED.



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

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





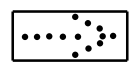
USE AN ATTENUATOR ON THE REARMOST VEHICLE THAT BLOCKS ALL OR PART OF THE TRAFFIC LANE.
 FOR EDGELINE MARKING OR IF CONES ARE NOT USED, POSITION THE REARMOST SHADOW VEHICLE ON THE SHOULDER AS SHOWN IN THE MUTCD IF THE SHOULDER HAS ADEQUATE WIDTH. USE DOUBLE ARROWS WHEN CONVOY IS IN CENTER LANE ONLY.

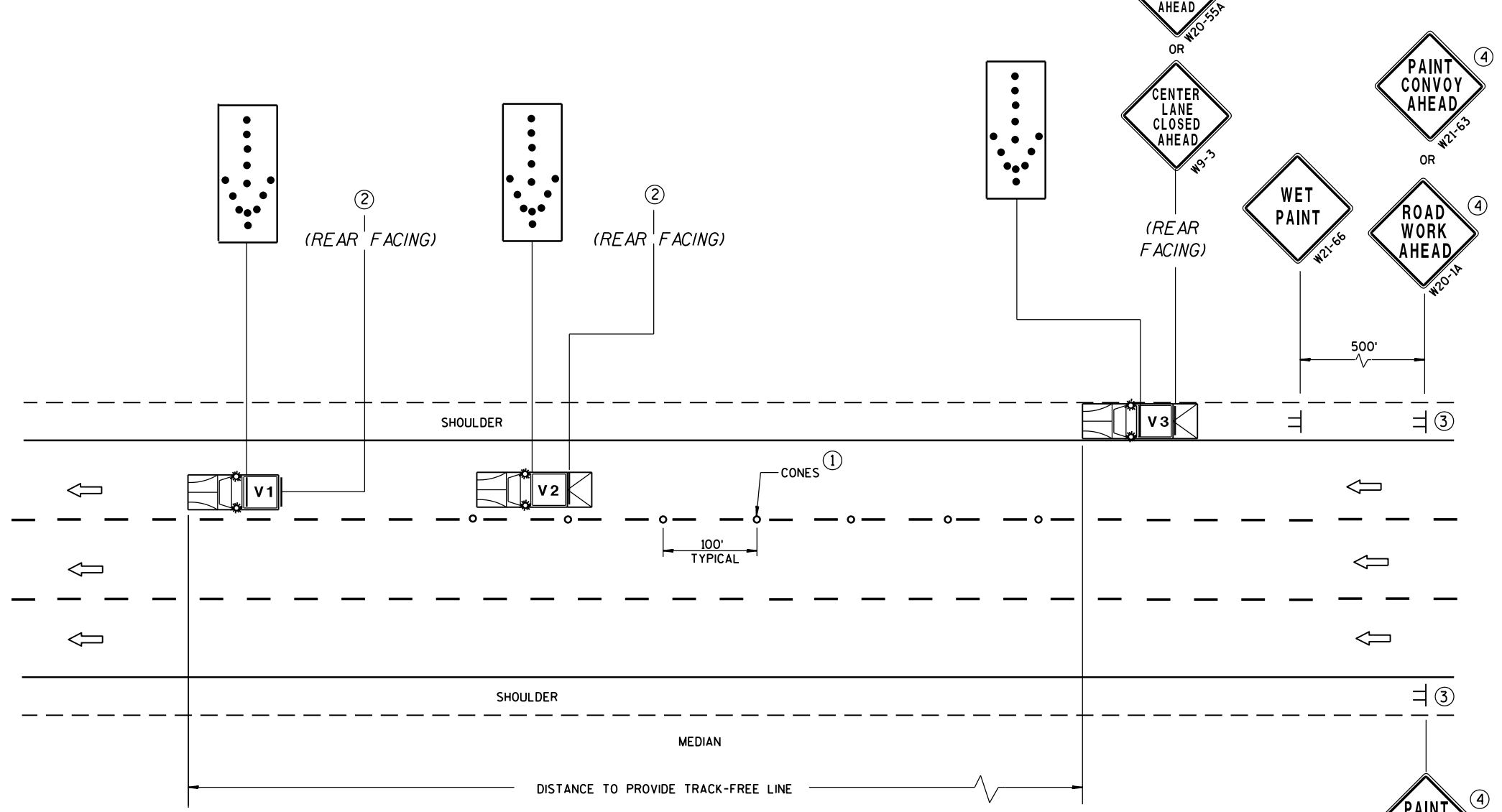
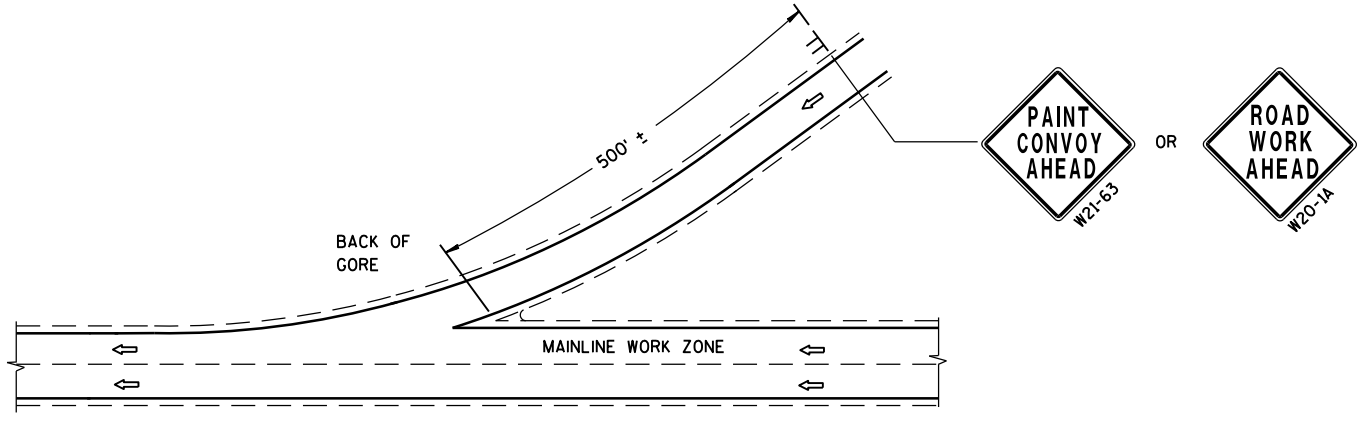
WHEN NO WORK ACTIVITY IS TAKING PLACE, REMOVE OR TURN THE STATIONARY WARNING SIGNS AWAY FROM TRAFFIC.

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

- ① CONES MAY BE OMITTED ON PAINTED LINE IF APPROVED BY THE ENGINEER. CONSIDER PAVEMENT MARKING DRY OR CURE TIMES AND TRAFFIC VOLUME.
- ② USE STANDARD SIGN W21-64 WITH APPROPRIATE ARROW.
 OR 
 W21-64 W21-64
- ③ SIGNS SHALL BE REPEATED AFTER EVERY ON RAMP OR EVERY THREE MILES.
- ④ IF CONSTRUCTION WORK ZONE SIGNS ARE IN PLACE, W20-1 OR W21-63 ARE NOT REQUIRED.

LEGEND

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

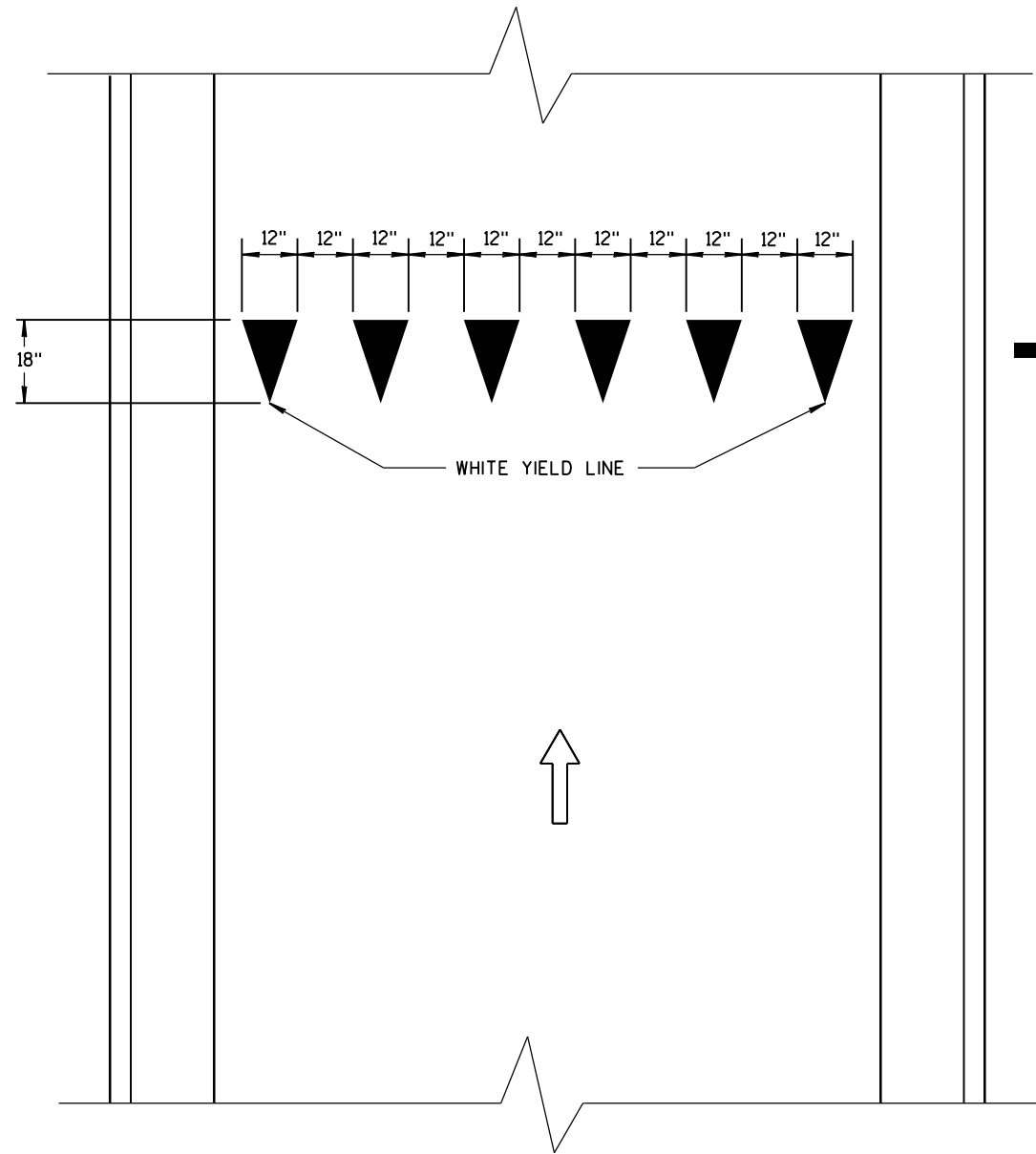


**MOVING PAVEMENT MARKING OPERATIONS
 MULTI-LANE DIVIDED ROADWAY**

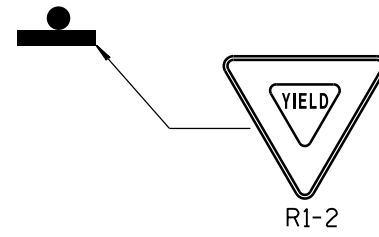
MOVING PAVEMENT MARKING OPERATION MULTI-LANE DIVIDED ROADWAY	
STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION	
APPROVED DATE Sept. 2017	/S/ Andrew Heldtke WORK ZONE ENGINEER
FHWA	

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➔ DIRECTION OF TRAVEL



YIELD LINE

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S.D.D. 15 C 20-2

S.D.D. 15 C 20-2

YIELD MARKINGS	
STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION	
APPROVED	
4-18-2016 DATE	/S/ Matthew R. Rauch STATE SIGNING AND MARKING ENGINEER
FHWA	

GENERAL NOTES

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

A DISTANCE DEPENDENT ON SPEED (SEE TABLE)

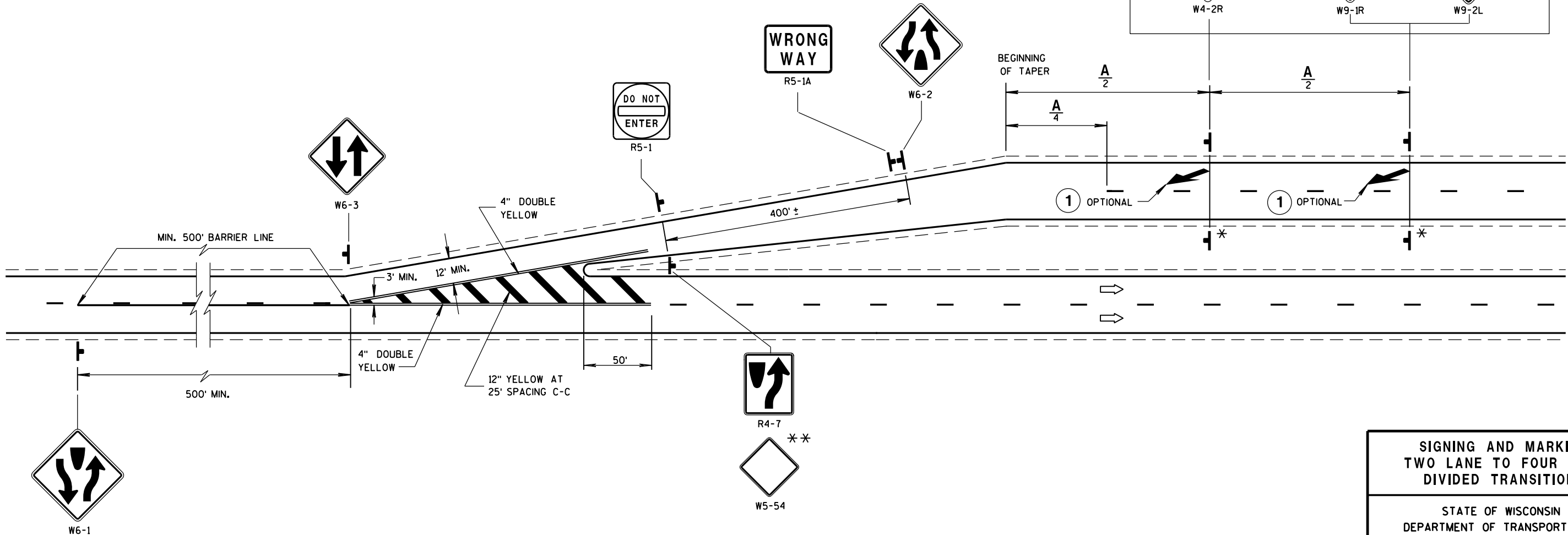
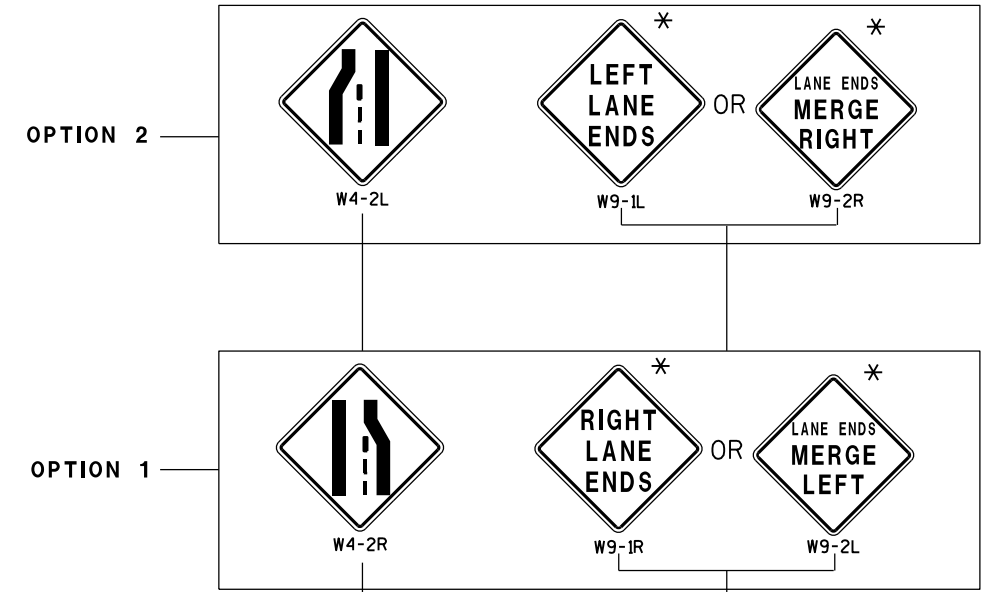
1 USED ONLY WHEN APPROVED BY REGION TRAFFIC ENGINEER.

SYMBOLS

- * SIGNS MAY BE OMITTED IF SPACE DOES NOT PERMIT
- * * IF POSTED SPEED 45 MPH OR GREATER, PLACE W5-54 SIGN UNDER R4-7 SIGN. MOUNT W5-54 SIGN AT 4' MOUNTING HEIGHT (TOP OF ROADWAY TO BOTTOM OF SIGN)
- ┣ POST MOUNTED SIGN
- ⇨ DIRECTION OF TRAFFIC FLOW

DISTANCE TABLE

POSTED OR 85th PERCENTILE SPEED	DISTANCE "A"
25	325
30	460
35	565
40	670
45	775
50	885
55	990



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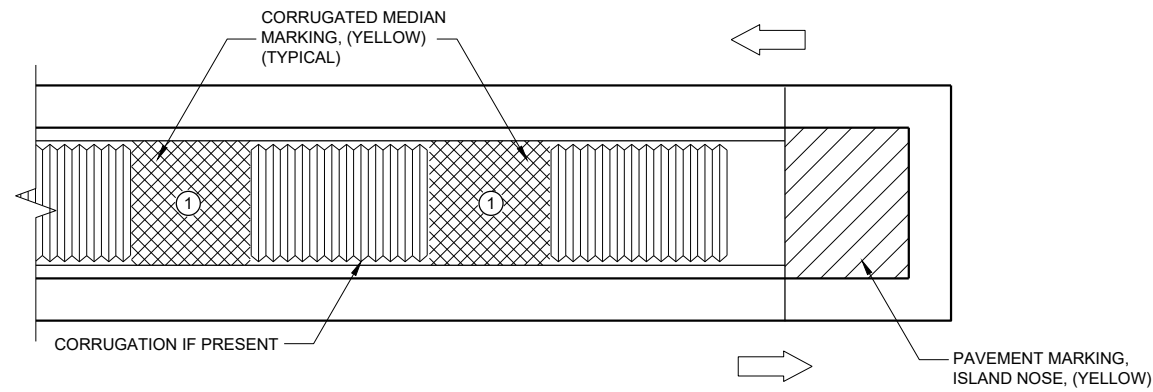
S.D.D. 15 C 21-8

S.D.D. 15 C 21-8

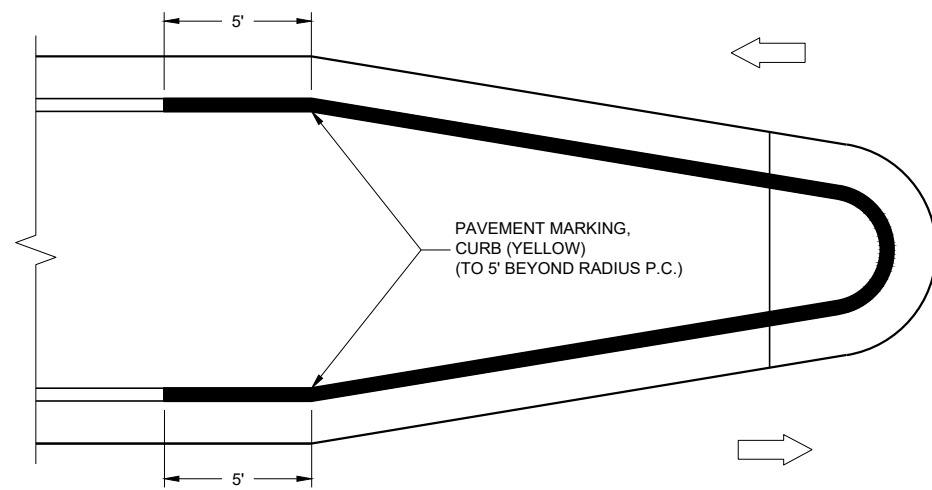
**SIGNING AND MARKING
TWO LANE TO FOUR LANE
DIVIDED TRANSITIONS**

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

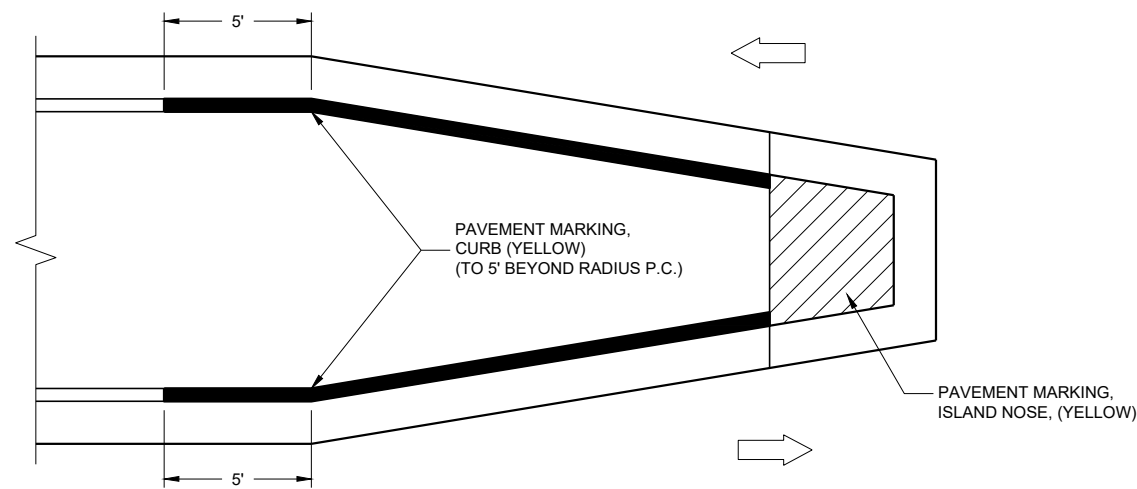
APPROVED
June 2017 /S/ Matthew R. Rauch
DATE STATE SIGNING AND MARKING ENGINEER
FHWA



MEDIAN ISLAND WITH SQUARE BLUNT NOSE



MEDIAN ISLAND WITH ROUND BLUNT NOSE







MEDIAN ISLAND WITH SLOPED NOSE

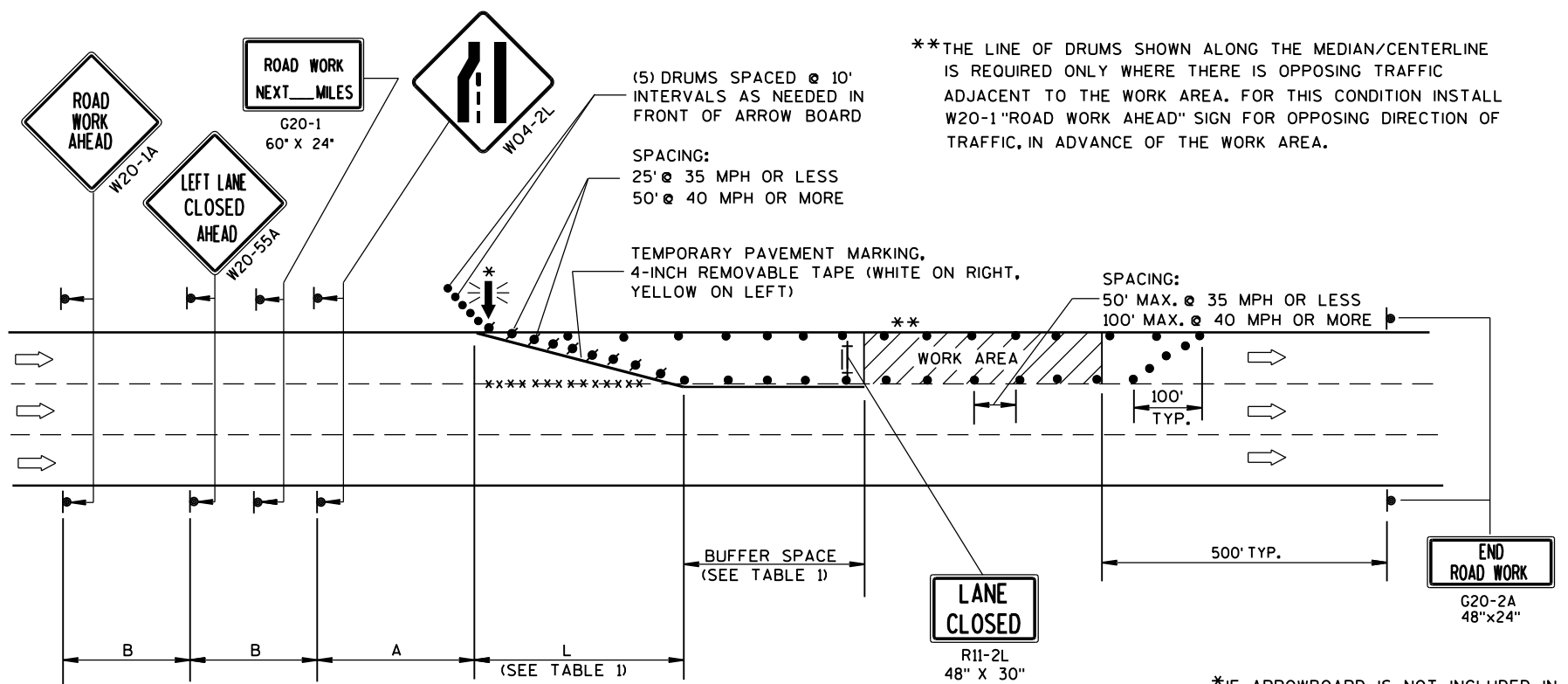
TYPICAL PLACEMENT OF PAVEMENT MARKING ON MEDIAN ISLANDS

GENERAL NOTES

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

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

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



B=400' AT 25-30 MPH
700' AT 35-40 MPH
1000' AT 45-55 MPH

A=200' AT 25-30 MPH
350' AT 35-40 MPH
500' AT 45-55 MPH

TABLE 1
TAPER AND BUFFER SPACE
FOR 12' LANE WIDTH

S	L	BUFFER SPACE
25	125'	55'
30	180'	85'
35	245'	120'
40	320'	170'
45	540'	220'
50	600'	280'
55	660'	335'

FOR LANE WIDTH OTHER THAN 12':
 L = WS AT 45 MPH OR GREATER
 $L = \frac{WS^2}{60}$ AT 40 MPH OR LESS
 L = TAPER LENGTH IN FEET
 S = NON-CONSTRUCTION SPEED LIMIT (MPH)
 W = WIDTH OF LANE CLOSURE

(PLACE BARRICADE AND SIGN APPROX. EVERY 1000' ACROSS THE CLOSED LANE)

*IF ARROWBOARD IS NOT INCLUDED IN MISCELLANEOUS QUANTITIES, SUBSTITUTE A TYPE III BARRICADE WITH W01-6 SIGN IN THE LANE CLOSURE TAPER.

LEGEND

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

GENERAL NOTES

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.

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

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

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 DISTRICT TRAFFIC UNIT.

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

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 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.

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

ON UNDIVIDED ROADWAYS, OMIT THE SIGNS SHOWN ON LEFT SIDE OF ROAD.

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.

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

CONSIDER GEOMETRICS WHEN LOCATING SIGNS AND ARROWBOARDS SO THE APPROACHING DRIVER HAS A CLEAR VIEW OF THE ARROWBOARDS AND LANE CLOSURE DRUMS.

PLACE THE ARROWBOARD AS CLOSE AS POSSIBLE TO THE BEGINNING OF THE LANE CLOSURE TAPER, PREFERABLY ON THE SHOULDER OR TERRACE.

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

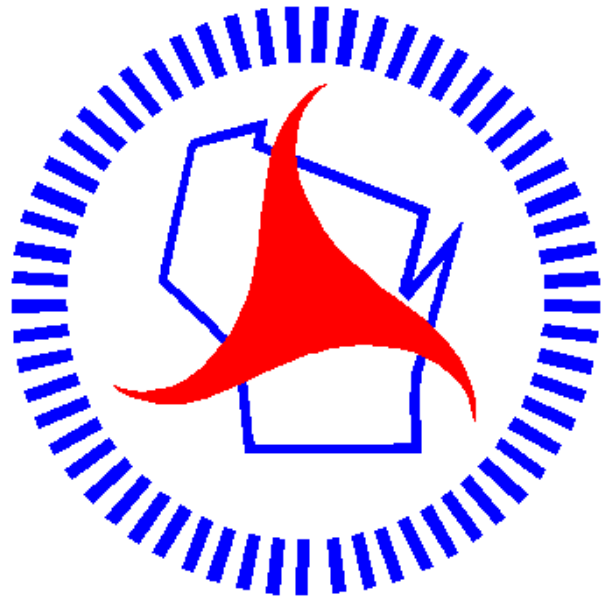
BARRICADES IN A CLOSED LANE THAT MUST BE MOVED FOR A WORK OPERATION SHALL BE IMMEDIATELY RE-ESTABLISHED UPON COMPLETION OF THE OPERATION OR, FOR CONTINUING OPERATIONS, AT THE END OF EACH WORKING DAY.

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

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

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

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



Wisconsin Department of Transportation

Dedicated people creating transportation solutions through innovation and exceptional service.

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