JULY 2019 FEDERAL PROJECT WIS STATE PROJECT STATE OF WISCONSIN CONTRACT **PROJECT** ORDER OF SHEETS 1009-42-49 WIS 2019300 1 Section No. 1 DEPARTMENT OF TRANSPORTATION Section No. 2 Typical Sections and Details Section No. 3 Estimate of Quantities Miscellaneous Quantities ₽ PLAN OF PROPOSED IMPROVEMENT Section No. 6 Standard Detail Drawings NC REGION, EPOXY PAVEMENT MARKING Ō LOCATIONS ON STN PER ANNUAL PLAN 0 **VAR HWY** TOTAL SHEETS = 28 NORTH CENTRAL REGION WIDE -49 STATE PROJECT NUMBER 1009-42-49 **SEGMENT** USH 2 (PEWABIC ST EAST TO MICHIGAN STATE LINE) VILAS COUNTY FLORENCE COUNTY USH 51 DESIGN DESIGNATION 1009-42-48 (ROCKY RUN ROAD TO USH 2) A.A.D.T. VARIES = VARIES A.A.D.T. VARIES = VARIES SEGMENT = VARIES D.H.V. STH 29 D.D. = VARTES (MARATHON CO LINE TO BROWN CO LINE) = VARIES DESIGN SPEED = VARIES **ESALS** = VARIES CONVENTIONAL SYMBOLS PLAN. PROFILE GRADE LINE CORPORATE LIMITS SEGMENT R ORIGINAL GROUND USH 45 PROPERTY LINE WAUPACA MARSH OR ROCK PROFILE (CTH W TO STH 76) COUNTY (To be noted as such) LIMITED HIGHWAY EASEMENT SPECIAL DITCH STATE OF WISCONSIN EXISTING RIGHT OF WAY GRADE ELEVATION PROPOSED OR NEW R/W LINE DEPARTMENT OF TRANSPORTATION CULVERT (Profile View) SLOPE INTERCEPT UTILITIES Surveyor REFERENCE LINE AL SMITH MDesigner **EXISTING CULVERT** FIBER OPTIC TIMOTHY HANLEY PROPOSED CULVERT CHERYL SIMON (Box or Pipe) SANITARY SEWER COMBUSTIBLE FLUIDS LAYOUT STORM SEWER П TELEPHONE SCALE L WATER MARSH AREA UTILITY PEDESTAL Д TOTAL NET LENGTH OF CENTERLINE = 0 MILES POWER POLE d WOODED OR SHRUB AREA TELEPHONE POLE PLOT NAME : FILE NAME: N:\PDS\C3D\10094248\SHEETSPLAN\010101-\_TS.D\G LAYOUT NAME - \*\*\*\* PLOT DATE : 5/31/2019 6:57 AM PLOT BY : SMITH, LYLE A WISDOT/CADDS SHEET 10 9

#### **DNR LIAISON**

**GENERAL NOTES** 

THERE ARE UTILITY FACILITIES WITHIN THE PROJECT AREA THAT ARE NOT SHOWN ON THE PLANS.

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COUNTIES: Shawano

#### **Runoff Coefficient Table**

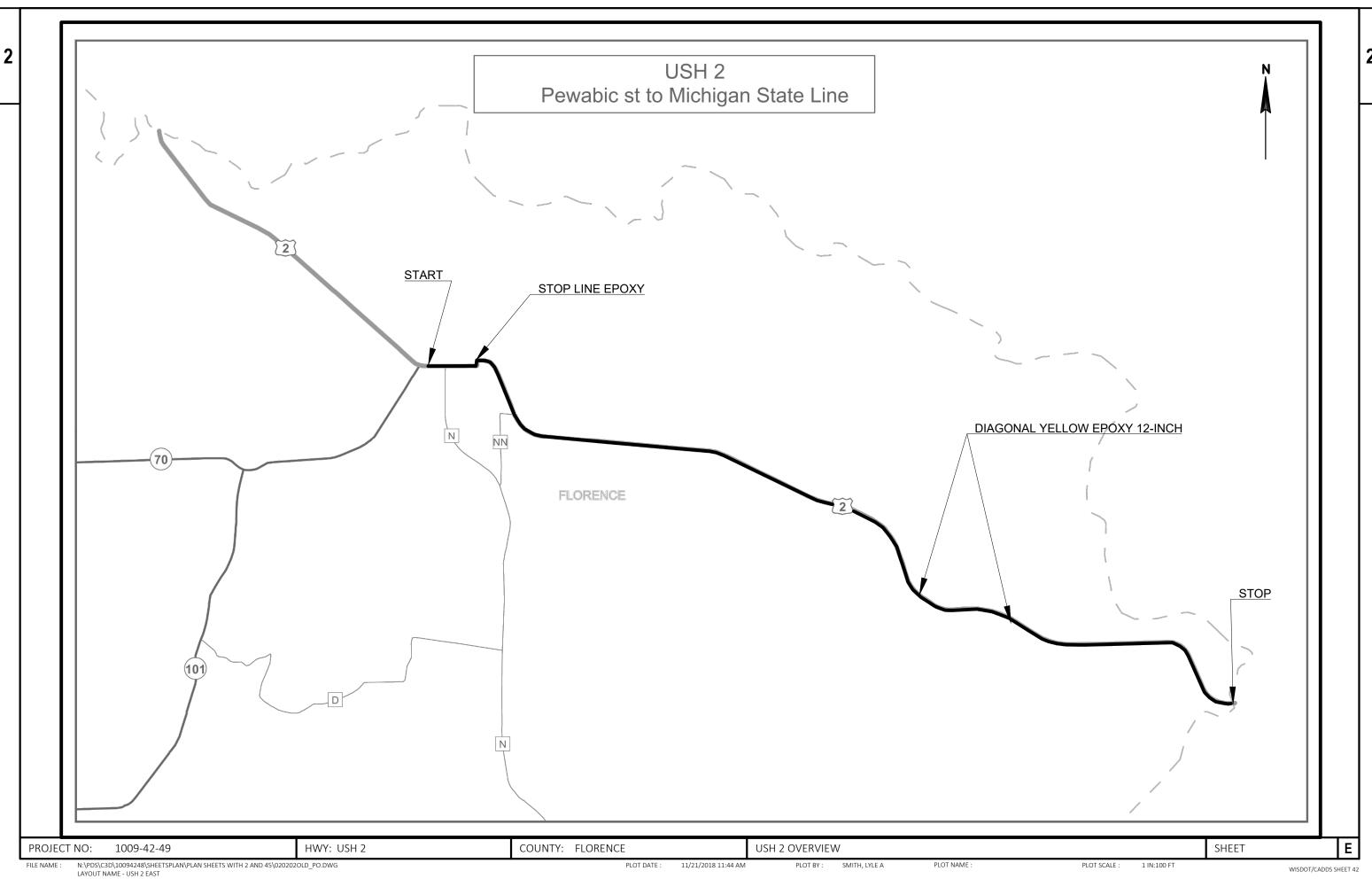
		Hydrolog						gic Soil Group						
		Α			В			С		D				
		<del>,</del>			Slop	e Rang	e (Per	cent)						
	0 1	2 - 6	6&	0 - 2	2 (	6&	0 2	2 (	6&	0 - 2	2 - 6	6&		
Land Use	0 - 2	2-6	Over	0-2	2 - 6	Over	0-2	2-6	Over	0-2	2-6	Over		
Row Crops	0.08	0.16	0.22	0.12	0.20	0.27	0.15	0.24	0.33	0.19	0.28	0.38		
Now Crops	0.22	0.30	0.38	0.26	0.34	0.44	0.30	0.37	0.50	0.34	0.41	0.56		
Median Strip-Turf	0.19	0.20	0.24	0.19	0.22	0.26	0.20	0.23	0.30	0.20	0.25	0.30		
Median Strip-Turi	0.24	0.26	0.30	0.25	0.28	0.33	0.26	0.30	0.37	0.27	0.32	0.40		
Side Slope Turf			0.25			0.27			0.28			0.30		
Side Slope Tull			0.32			0.34			0.36			0.38		
Pavement														
Asphalt						0.70	- 0.95							
Concrete						0.80	- 0.95							
Brick						0.70	- 0.80							
Drives, Sidewalks	0.75 - 0.85													
Roofs						0.75	- 0.95							
Gravel Roads, Shoulders						0.40	- 0.60							

Total Project Area = 279 Acres

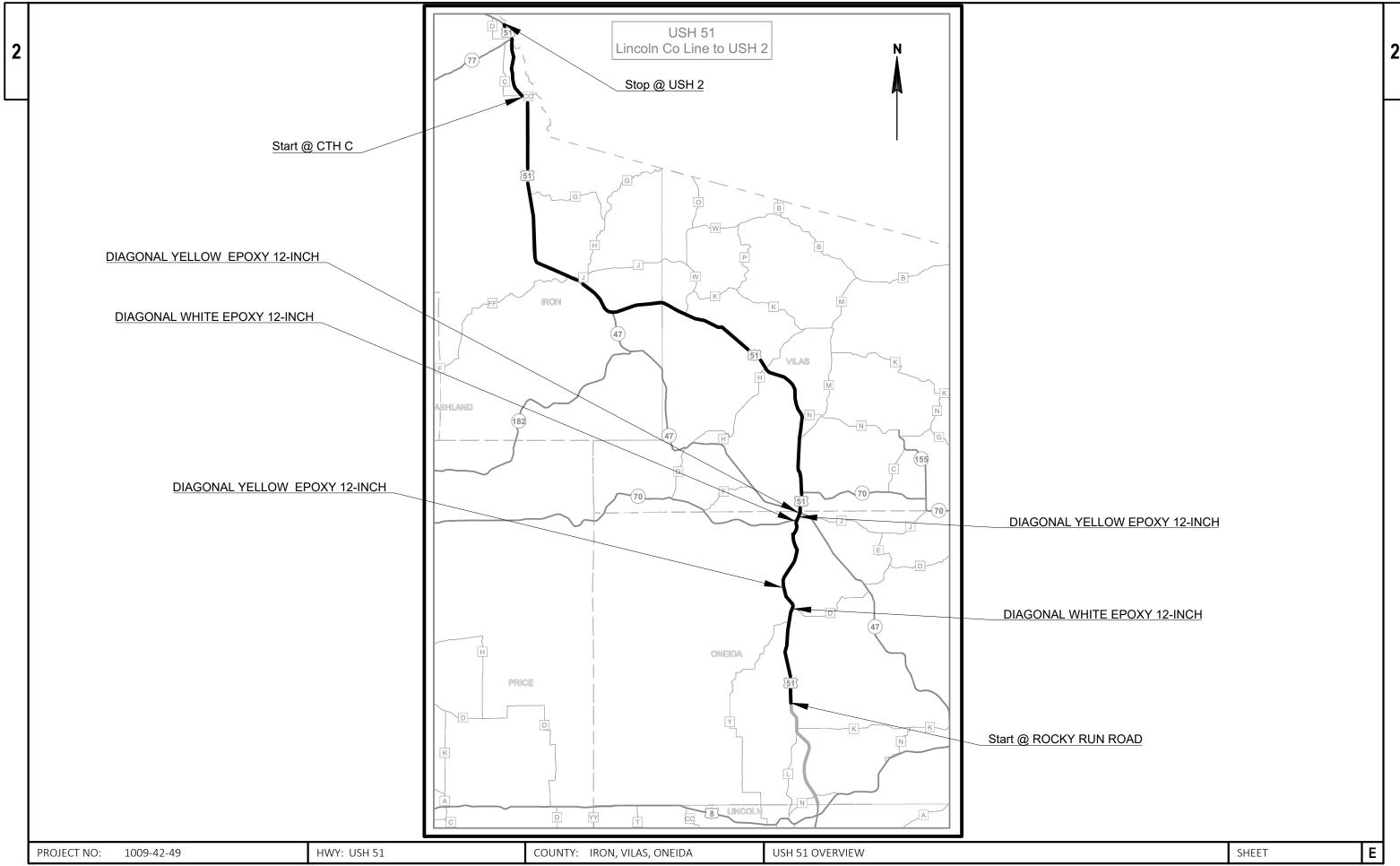
Total Area Expected To Be Disturbed By Construction Activities = 0 Acres



PROJECT NO: 1009-42-49 HWY: VARIOUS COUNTY: NC REGION WIDE GENERAL NOTES SHEET: **E** 

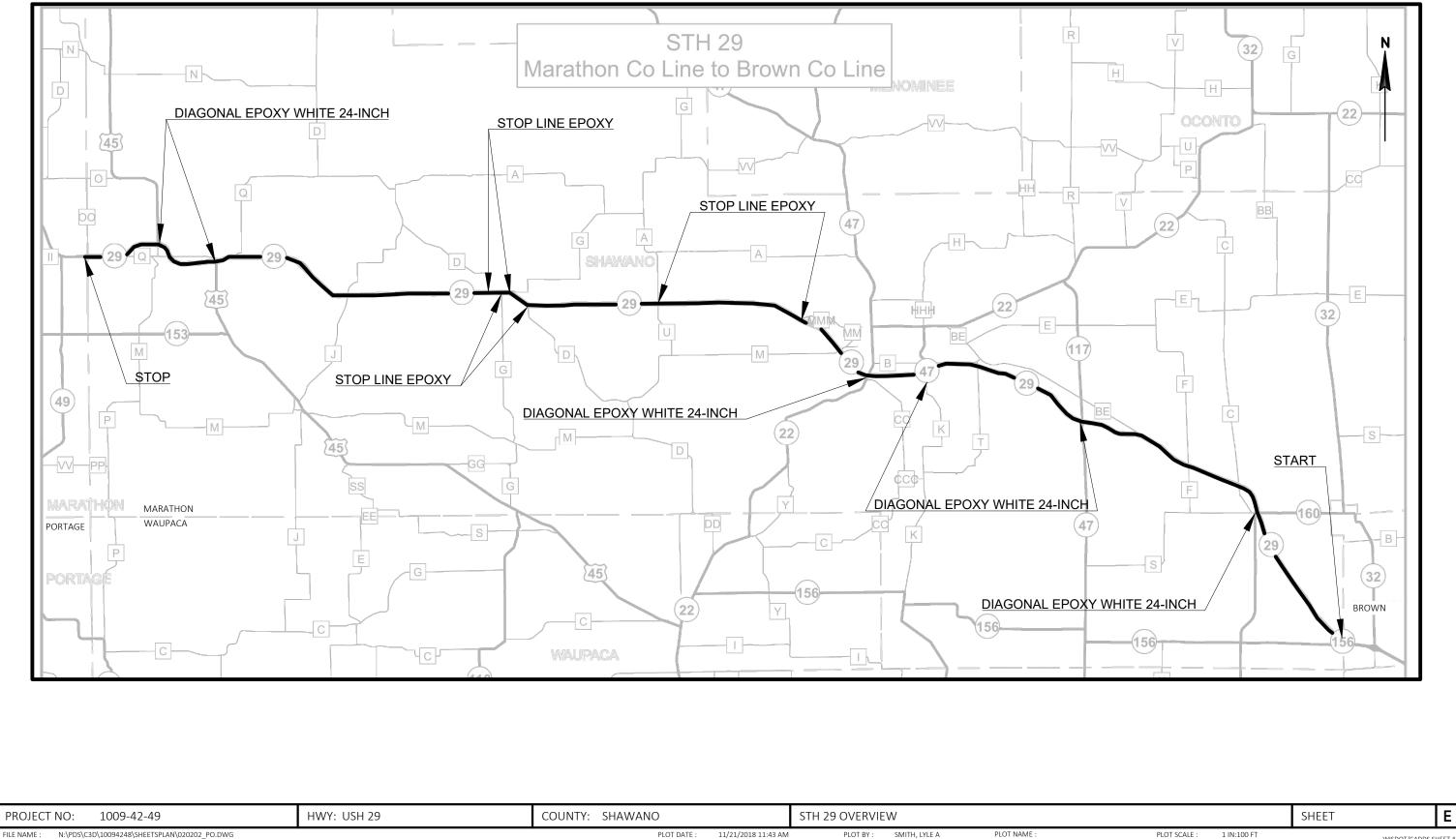


WISDOT/CADDS SHEET 42



FILE NAME: N:\PDS\C3D\10094248\SHEETSPLAN\020202\_PO\_RECOVER.DWG PLOT DATE: 6/4/2019 6:05 AM PLOT BY: SMITH, LYLE A PLOT NAME: 1 IN:100 FT WISDOT/CADDS SHEET 42 LAYOUT NAME - USH 51



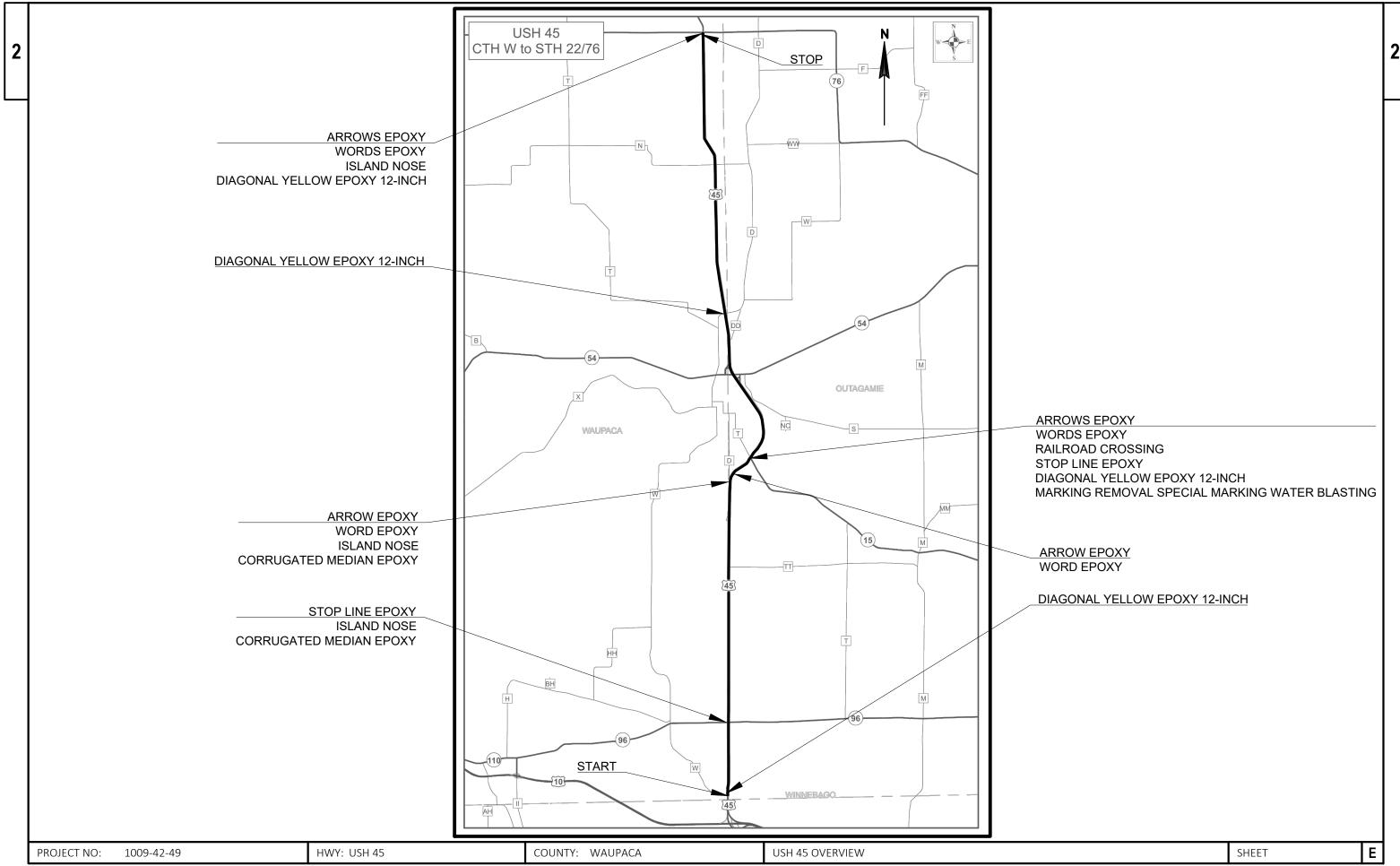


N:\PDS\C3D\10094248\SHEETSPLAN\020202\_PO.DWG FILE NAME : LAYOUT NAME - STH 29

PLOT DATE : 11/21/2018 11:43 AM PLOT NAME :

PLOT SCALE :

WISDOT/CADDS SHEET 42



### **Estimate Of Quantities**

Page	1
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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	2,725,559.000	2,725,559.000
0006	646.3020	Marking Line Epoxy 8-Inch	LF	59,822.000	59,822.000
8000	646.5020	Marking Arrow Epoxy	EACH	55.000	55.000
0010	646.5120	Marking Word Epoxy	EACH	19.000	19.000
0012	646.5320	Marking Railroad Crossings Epoxy	EACH	4.000	4.000
0014	646.6120	Marking Stop Line Epoxy 18-Inch	LF	723.000	723.000
0016	646.7120	Marking Diagonal Epoxy 12-Inch	LF	7,303.000	7,303.000
0018	646.7220	Marking Chevron Epoxy 24-Inch	LF	1,937.000	1,937.000
0020	646.8020	Marking Corrugated Median Epoxy	SF	725.000	725.000
0022	646.8220	Marking Island Nose Epoxy	EACH	8.000	8.000
0024	646.9310	Marking Removal Special Marking Water Blasting	EACH	6.000	6.000
0026	ASP.1T0A	On-the-Job Training Apprentice at \$5.00/HR	HRS	300.000	300.000
0028	ASP.1T0G	On-the-Job Training Graduate at \$5.00/HR	HRS	300.000	300.000

1009-42-49

		MARKING	3					
		646.1	020	646.3020	646.502		647.7120.	
		LIN	E	LINE	EPOXY	646.6120	DIAGONAL	
		EPO	XY	EPOXY	ARROWS	STOP LINE	EPOXY	
		4-IN	CH	8-INCH	EPOXY	EPOXY	12-INCH	
		YELLOW	WHITE	WHITE	TYPE 2	18-INCH	WHITE	
LOCATION		LF	LF	LF	EACH	LF	LF	REMARKS
FLORENCE COUNTY	USH 2 (PEWABIC ST WEST TO MICHIGAN STATE LINE)	65,287		400				MAINLINE
FLORENCE COUNTY	USH 2 - FLORENCE AVE					33		INTERSECTION
FLORENCE COUNTY	USH 2 @ EAST TWIN FALLS RD - WASHINGTON LANE				10		342	MEDIAN
FLORENCE COUNTY	USH 2 @ EAST TALL PINE RD - LAKE ELLWOOD RD				24		339	MEDIAN
	SUBTOTALS:	65287	0					
	FLORENCETOTALS:	65,2	87	400	34	33	681	

PROJECT NO: 1009-42-49 HWY: USH 2 COUNTY: FLORENCE MISCELLANEOUS QUANTITIES SHEET: **E** 

	MARK	ING					
		646.	1020	646.3020	646	5.7120	
		LI	NE	LINE	DIAC	GONAL	
		EP	YXC	EPOXY	EF	POXY	
		4-11	NCH	8-INCH	12	-INCH	
		YELLOW	WHITE	WHITE	WHITE	YELLOW	
LOCATION		LF	LF	LF	LF	LF	REMARKS
ONEIDA, VILAS & IRON COUNTES	ROCKY RUN ROAD - USH 2	420,599	733,757	6,522			SKIP WEBER RD - CTH C
ONEIDA COUNTY	USH 51 @ CTH D				460		INTERSECTION
ONEIDA COUNTY	US 51 & CTH D TO MINOCQUA BRIDGE					3388	MEDIAN
ONEIDA COUNTY	US 51 & MINOCQUA LOOP					114	MEDIAN
ONEIDA COUNTY	US 51 NB & MINOCQUA LOOP - 3RD AVE					672	MEDIAN / MAINLINE
ONEIDA COUNTY	US 51 NB & ON STH 70 SOUTH JCT				928		INTERSECTION
	SUBTOTALS	: 420,599	733,757		1,388	4,174	
	TOTALS	: 1,15	4,356	6,522	5	,562	

PROJECT NO: 1009-42-49 HWY: USH 51 COUNTY: ONEIDA, VILAS & IRON MISCELLANEOUS QUANTITIES SHEET: **E** 

			MARKING				
		646.	1020	646.3020		646.7220	
		LI	NE	LINE	646.6120	DIAGONAL	
		EP(	OXY	EPOXY	STOP LINE	EPOXY	
		4-11	ICH	8-INCH	EPOXY	24-INCH	
		YELLOW	WHITE	WHITE	18-INCH	WHITE	
LOCATION		LF	LF	LF	LF	LF	REMARKS
SHAWANO COUNTY	MARATHON CO LINE TO BROWN CO LINE	563,894	673,504	42,149			MAINLINE
SHAWANO COUNTY	STH 29 EB & 45 NORTH				52		INTERSECTION
SHAWANO COUNTY	STH 29 EB & CTH D				21		INTERSECTION
SHAWANO COUNTY	STH 29 EB & STH 22				30	390	INTERSECTION
SHAWANO COUNTY	STH 29 EB & STH 55N / 47S				30	132	INTERSECTION
SHAWANO COUNTY	STH 29 EB & STH 47 / 117				30	178	INTERSECTION
SHAWANO COUNTY	STH 29 EB & STH 55 / 160				30	186	INTERSECTION
SHAWANO COUNTY	STH 29 WB & STH 55 / 160				28	146	INTERSECTION
SHAWANO COUNTY	STH 29 WB & STH 47 / 117				30	155	INTERSECTION / MAINLINE
SHAWANO COUNTY	STH 29 WB & STH 47				28	182	INTERSECTION / MAINLINE
SHAWANO COUNTY	STH 29 WB & STH 22				30	168	INTERSECTION
SHAWANO COUNTY	STH 29 WB & STH 45 SOUTH				60	133	INTERSECTION
SHAWANO COUNTY	STH 29 WB & CTH Q				40	134	INTERSECTION
SHAWANO COUNTY	STH 29 WB & STH 45 NORTH				60	133	INTERSECTION
	SUBTOTALS:	563,894	673,504	42,149			
	TOTALS:	1,237	7,398	42,149	469	1,937	

PROJECT NO:1009-42-49 HWY: STH 29 COUNTY: SHAWANO MISCELLANEOUS QUANTITIES SHEET: **E** 

FILE NAME : \_\_\_\_\_\_ PLOT DATE : \_\_\_\_\_ PLOT BY : \_\_\_\_\_ PLOT NAME : \_\_\_\_\_ PLOT SCALE : 1:1

3

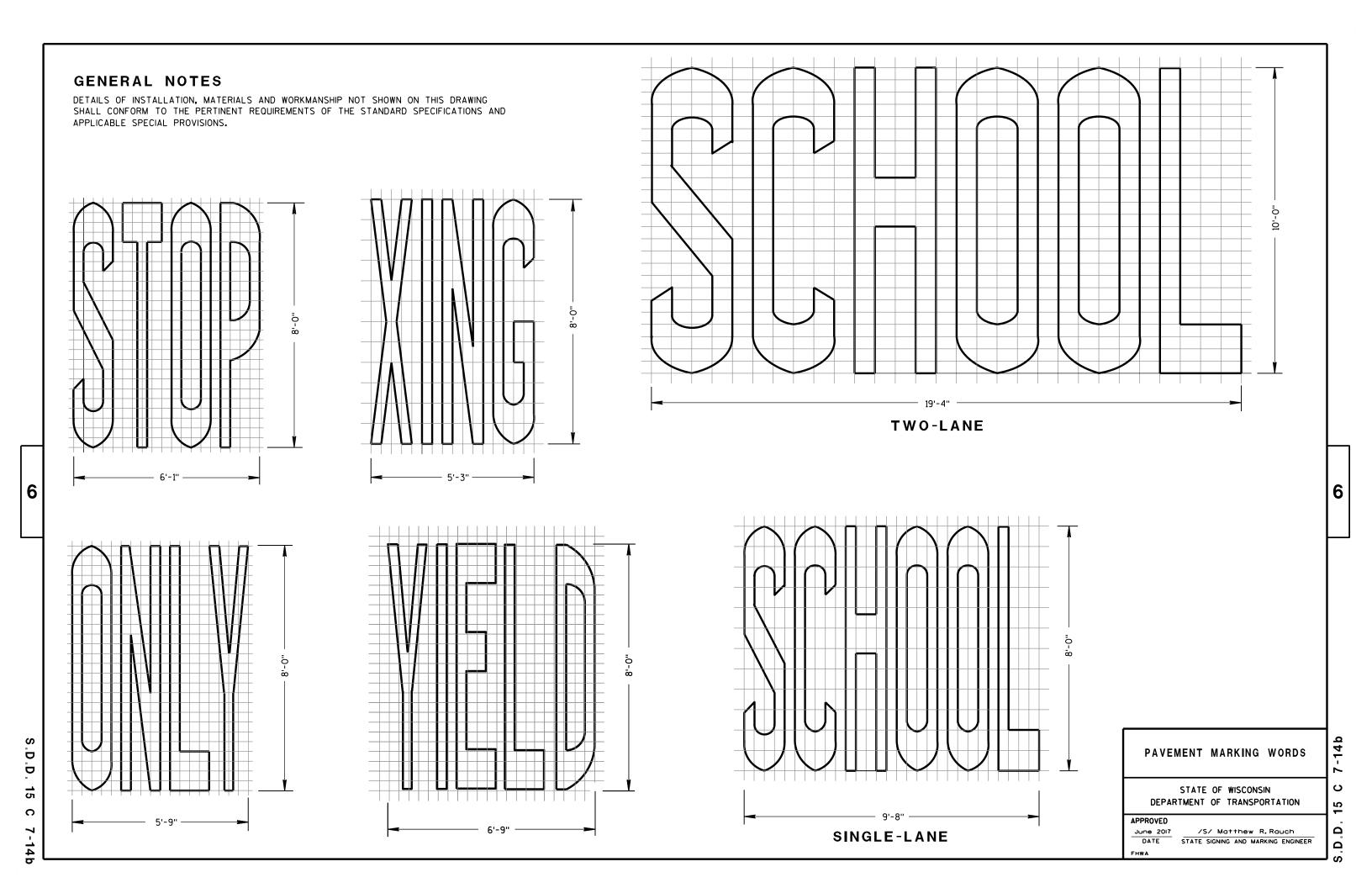
	MARKING													
										646.7120	646.8020			
		646.	1020	646.3020	646.5020	646.5020		646.5320	646.6120	DIAGONAL	CONCRETE	646.8220	646.9310	
		EP(	YXC	EPOXY	ARROWS	ARROWS	646.5120	RAILROAD	STOP LINE	EPOXY	CORRUGATED	ISLAND NOSE	MARKING REMOVAL	
		4-11	NCH	8-INCH	EPOXY	EPOXY	WORDS	CROSSING	EPOXY	12-INCH	MEDIAN	EPOXY	SPECIAL MARKING	
		YELLOW	WHITE	WHITE	TYPE 4	TYPE 2	EPOXY	EPOXY	18-INCH	YELLOW	EPOXY	YELLOW	WATER BLASTING	
LOCATION		LF	LF	LF	EACH	EACH	EACH	EACH	LF	LF	SF	EACH	EACH	REMARKS
WAUPACA, COUNTY	CTH W - 450 SOUTH OF MANSKE / GIVENS OVERPASS	31,799		10,751										GAP STH 96 INTERSECTION
WAUPACA COUNTY	450' SOUTH MANSKE / GIVENS OVERPASS TO STH 22/76	74587	162132											MAINLINE
WAUPACA COUNTY	USH 45 & CTH W									125				INTERSECTION
WAUPACA COUNTY	USH 45 & CTH D SOUTH JCT.					4	4				725	4		INTERSECTION
WAUPACA COUNTY	USH 45 & CONCRETE PLANT					3	3							INTERSECTION
WAUPACA COUNTY	USH 45 & STH 15 / T					4	4	4	145	240			6	REMOVE OLD RR MARKING
WAUPACA COUNTY	USH 45 & CTH D									578				START OF ONE WAY
WAUPACA COUNTY	USH 45 & STH 76					8	8			117		4		INTERSECTION
WAUPACA COUNTY	USH 45 & STH 54		-		2	-			76			-		
	SUBTOTALS:	106,386	162,132											
	TOTALS:	268	,518	10,751	2	19	19	4	221	1,060	725	8	6	

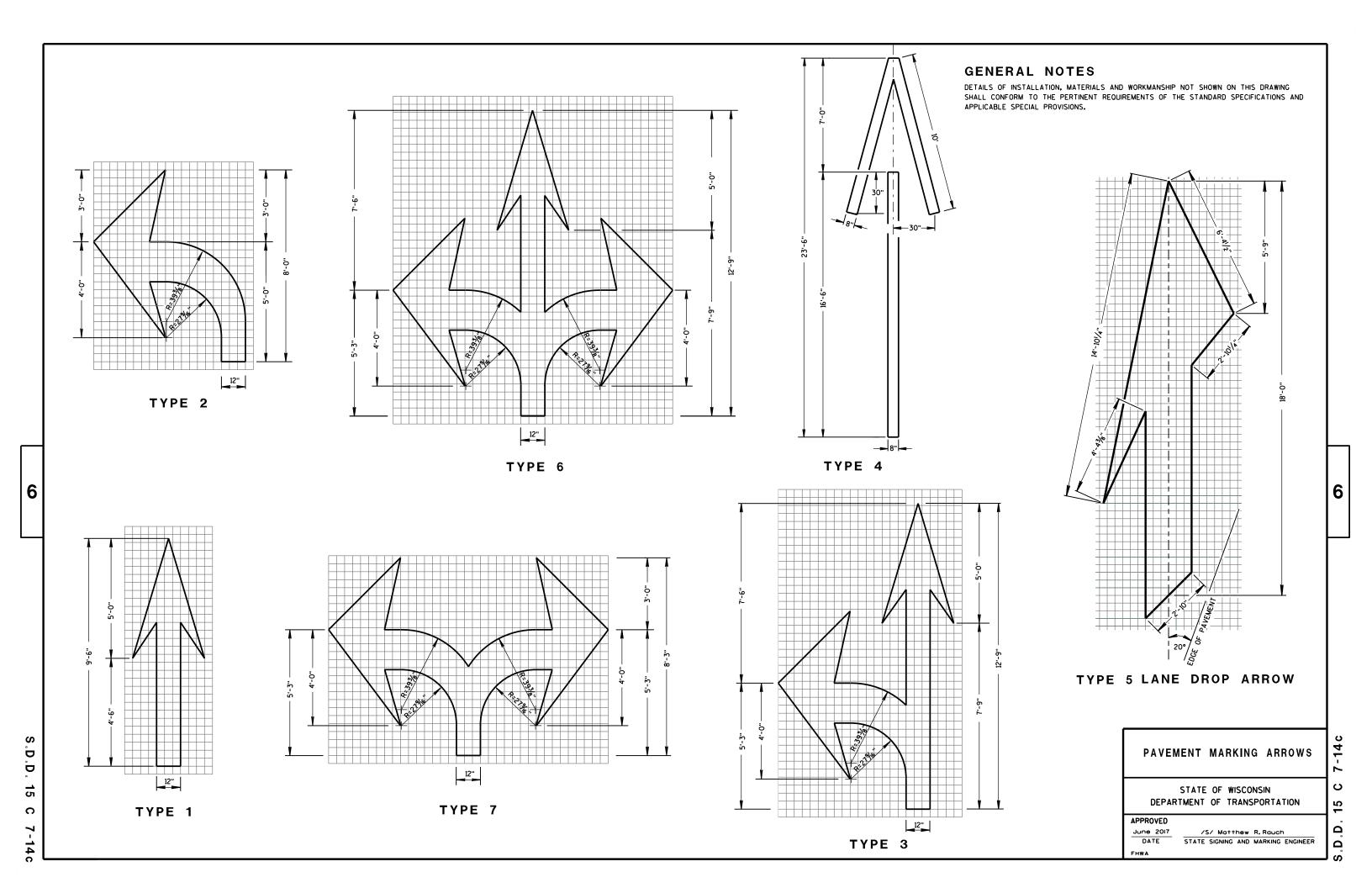
PROJECT NO: 1009-42-49 HWY: USH 45 COUNTY: WAUPACA MISCELLANEOUS QUANTITIES SHEET: **E** 

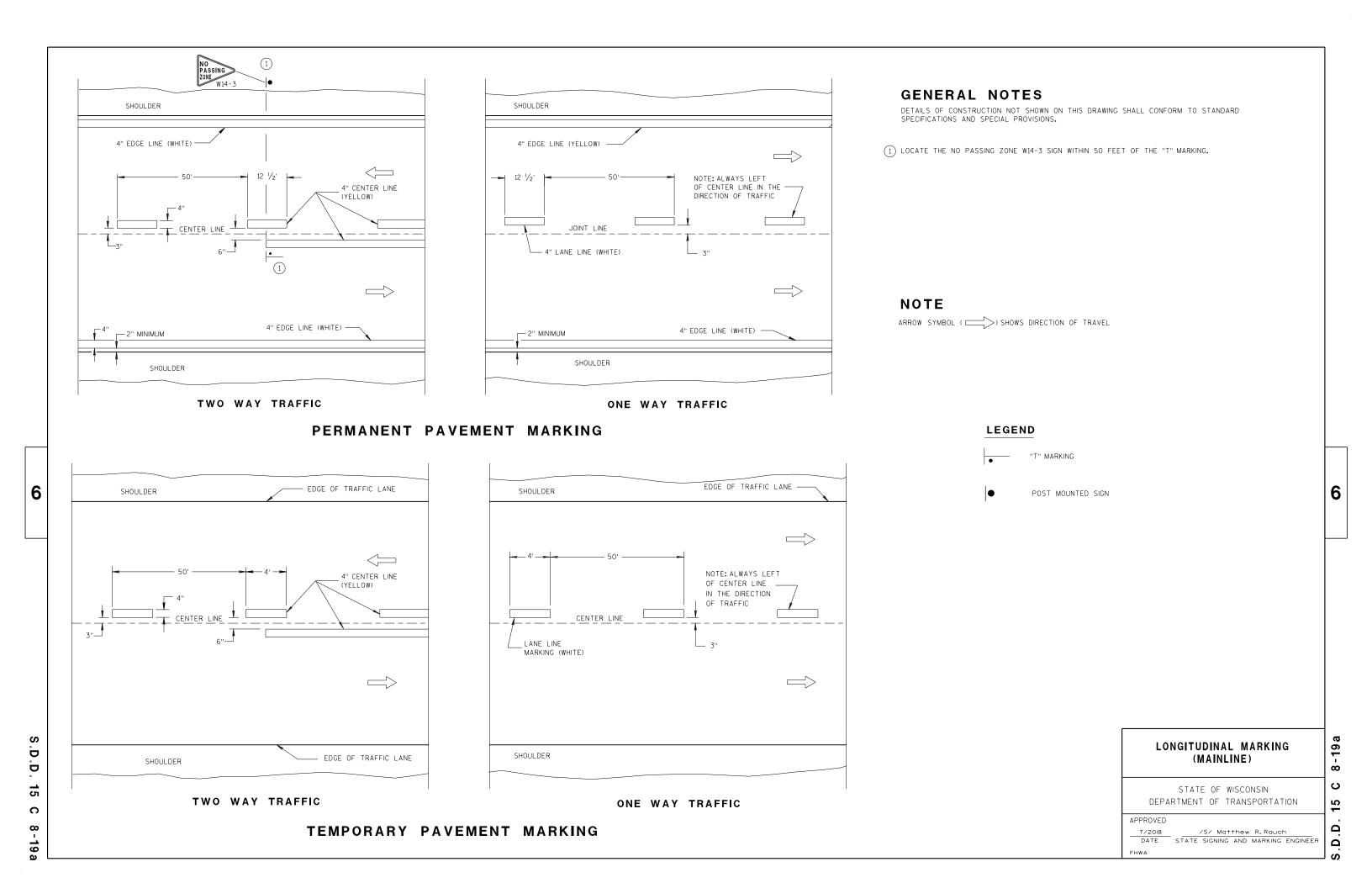
## Standard Detail Drawing List

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)
15C09-11A	SIGNING AND PAVEMENT MARKING DETAILS FOR RAILROAD-HIGHWAY GRADE CROSSINGS
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
15C31-03A	PAVEMENT MARKING (RAMPS AND GORES)
15C31-03B	PAVEMENT MARKING MAJOR SPLIT FREEWAY TO FREEWAY
15C33-03	STOP LINE AND CROSSWALK PAVEMENT MARKING
15C35-03A	PAVEMENT MARKING (INTERSECTIONS)
15C35-03B	PAVEMENT MARKING AND SIGNING (CLIMBING LANE & PASSING LANE)
15C35-03C	PAVEMENT MARKING AND SIGNING (CLIMBING LANE & PASSING LANE)

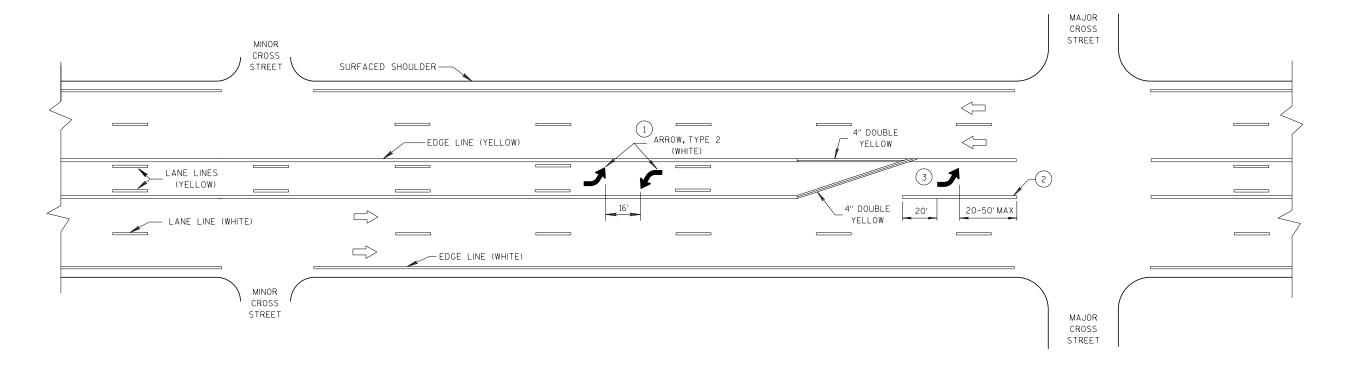
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- 1 A SET OF ARROWS IS REQUIRED EVERY 400 FEET OR NEAR INTERSECTIONS OR DRIVEWAYS WITH TURNING TRAFFIC.
- 2 8" WHITE
- (3) TURN BAY LENGTH OF LESS THAN 48'DOES NOT REQUIRE PAVEMENT ARROWS OR TEXT
- DIRECTION OF TRAFFIC



TWO WAY LEFT TURN LANE

PAVEMENT MARKING (TURN LANES) 6

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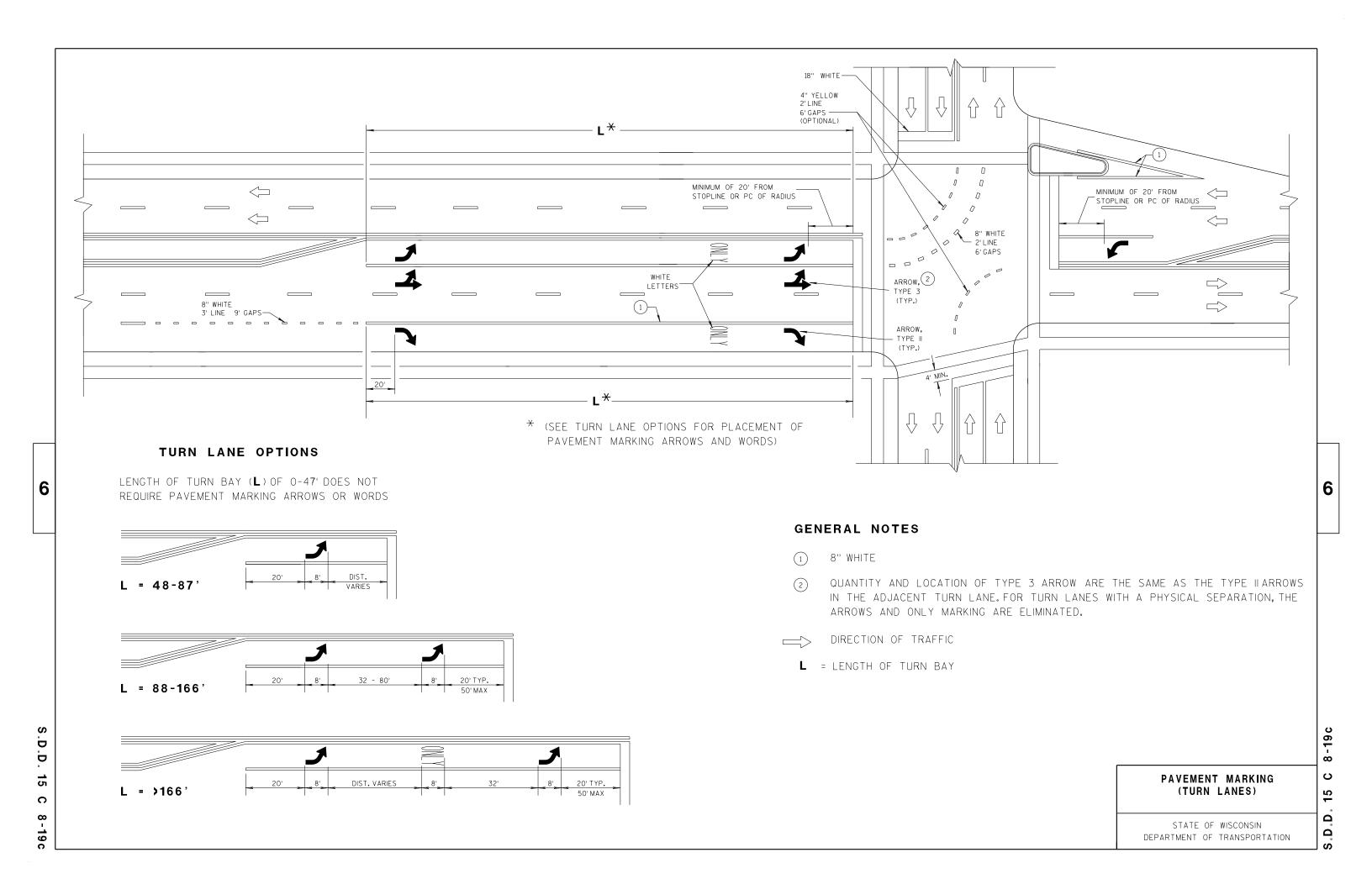
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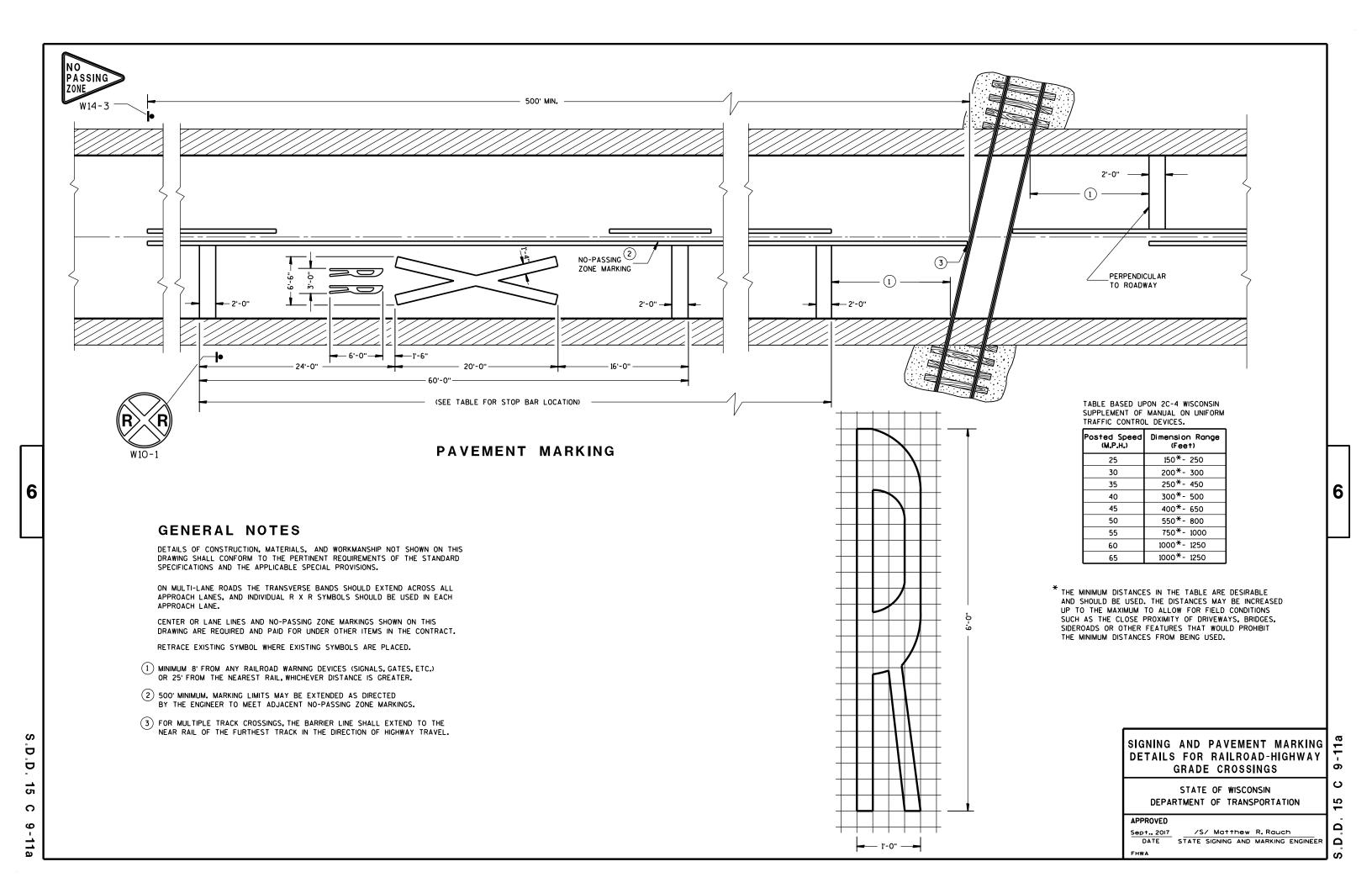
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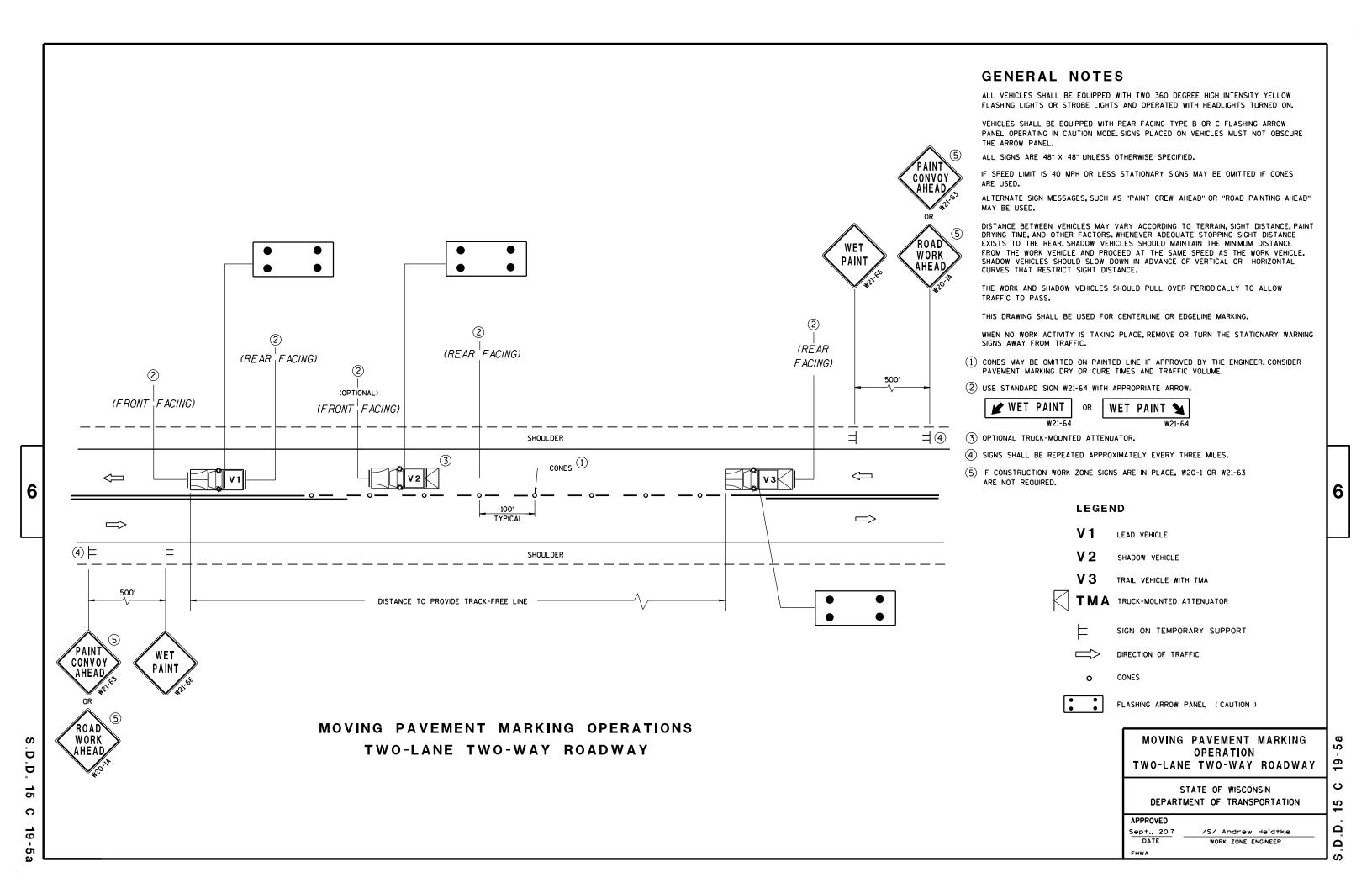
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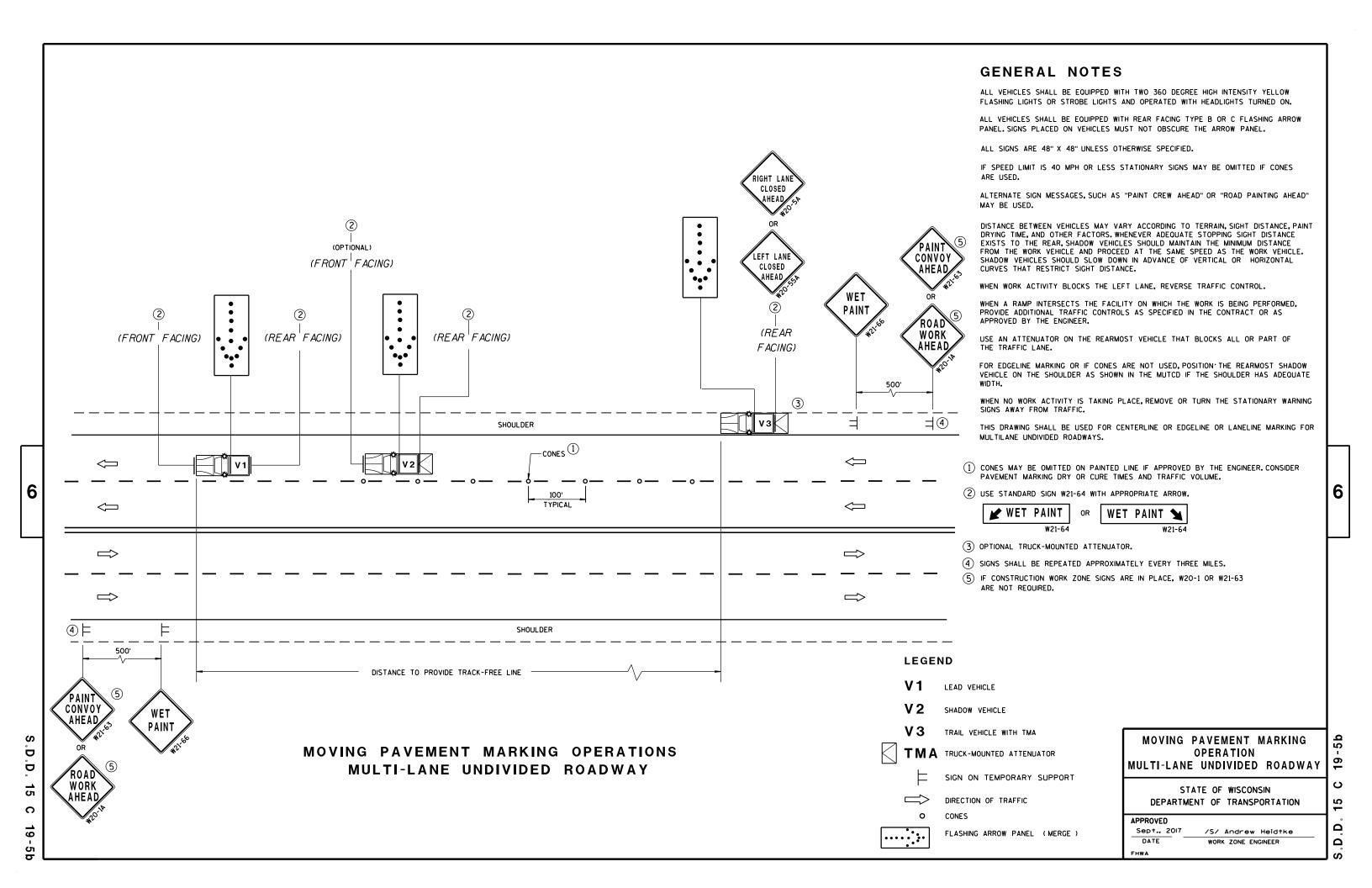
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

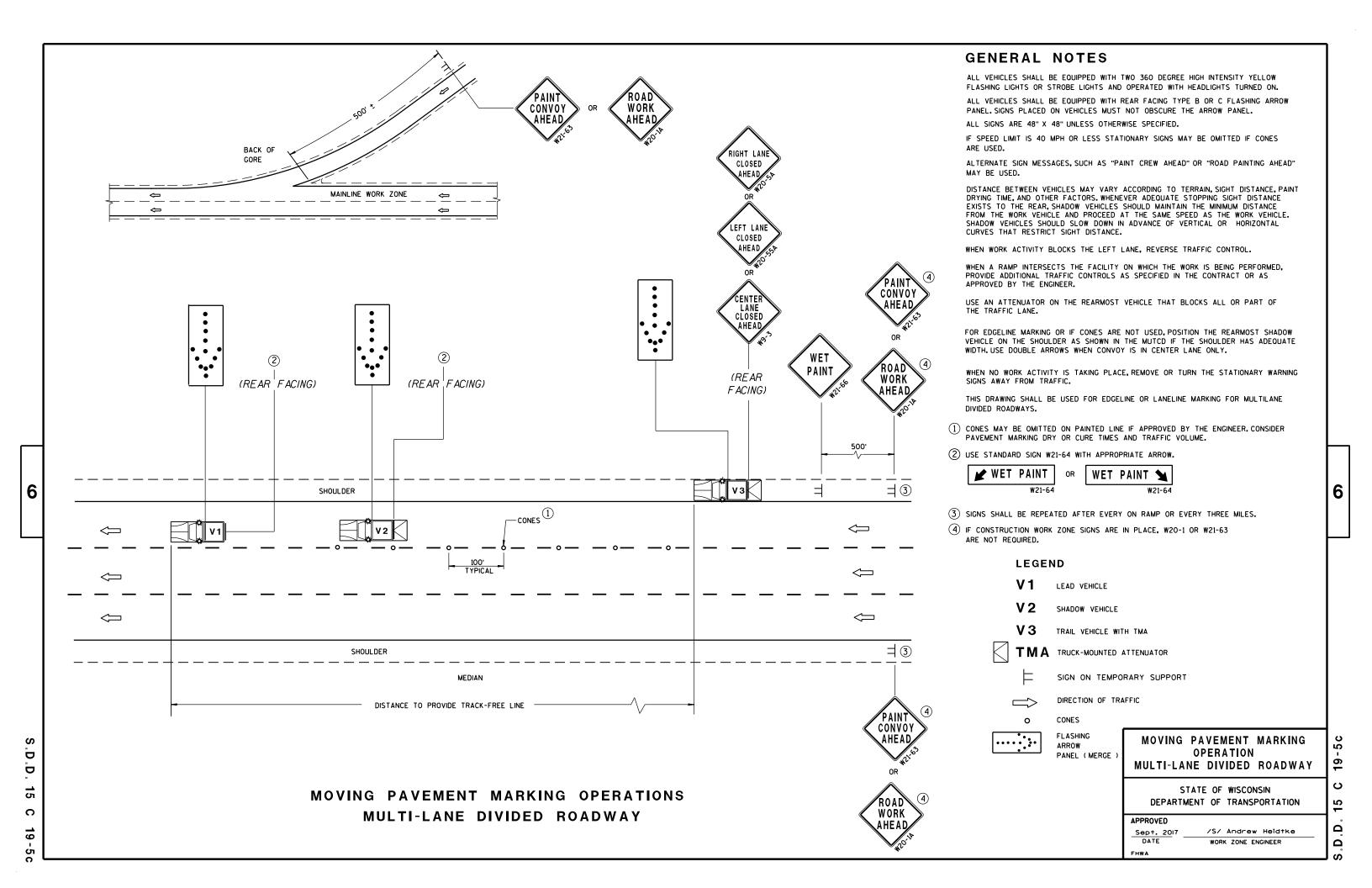
15 C 8-19b

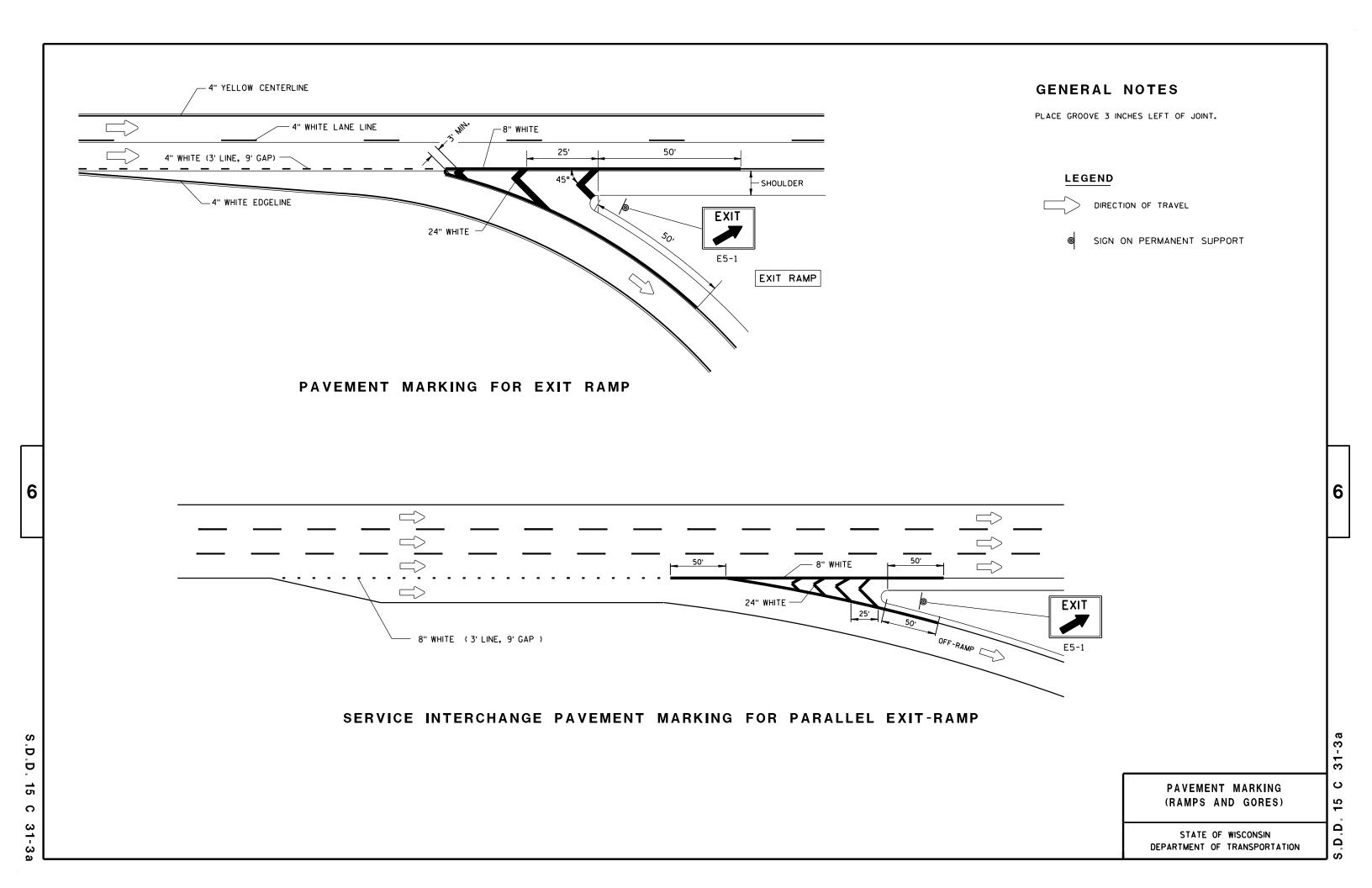


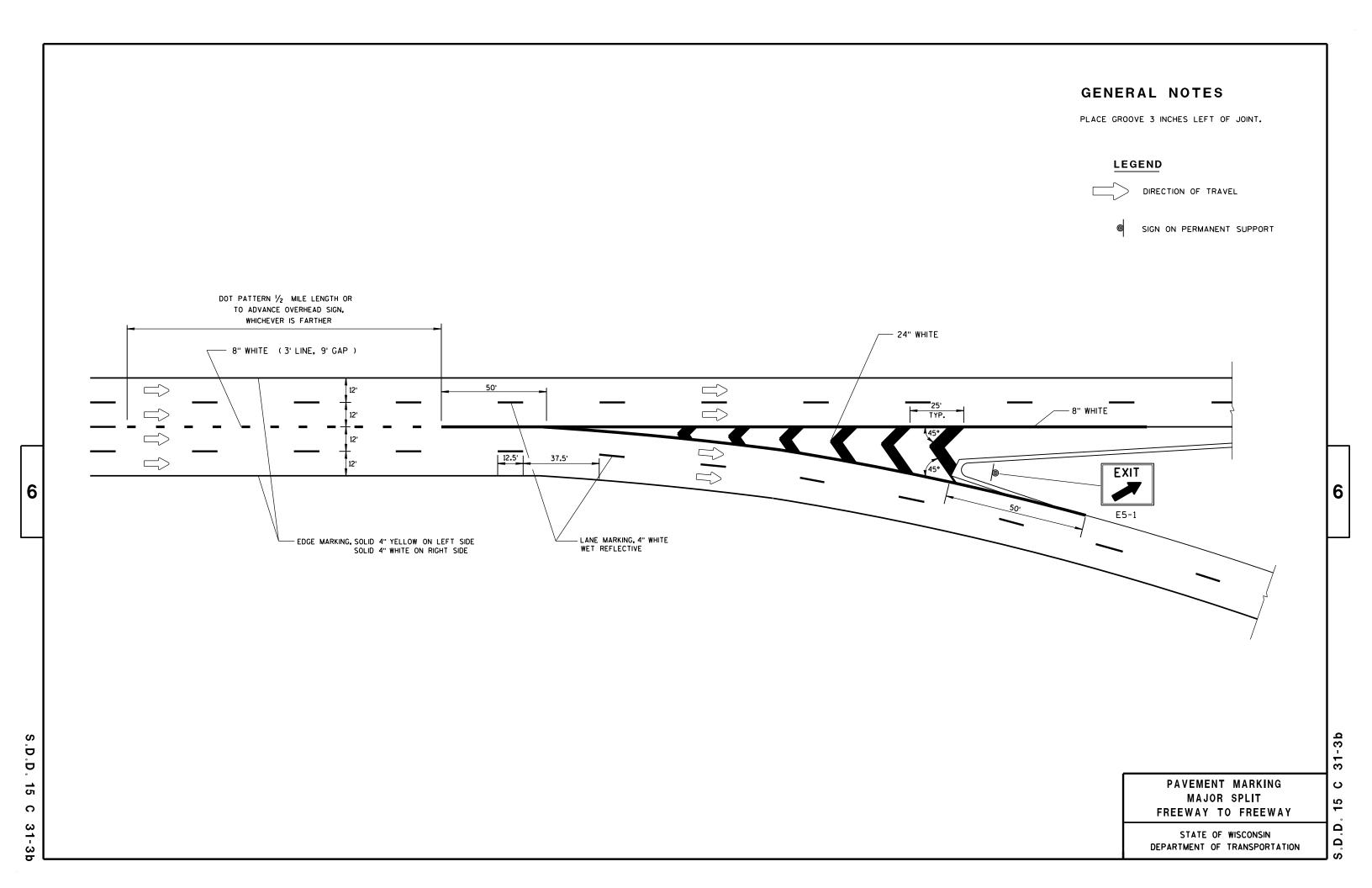


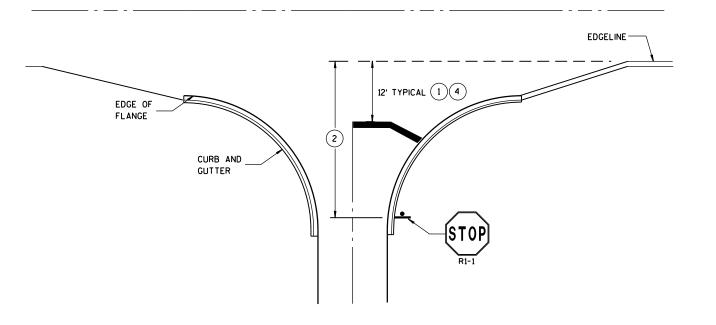








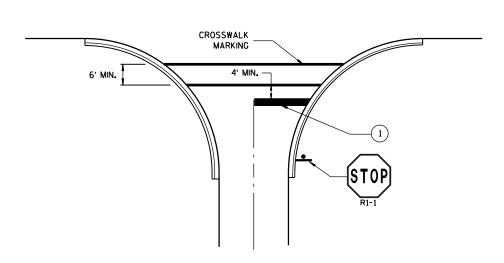




8" CHANNELIZATION WHITE FLANGELINE (EXTENSION) WHITE EDGELINE 4' TYPICAL (4)

TYPICAL STOP LINE PAVEMENT MARKING WITH CURB AND GUTTER

TYPICAL STOP LINE PAVEMENT MARKING FOR SIDEROADS WITH RIGHT TURN LANE



- EDGELINE 12' TYPICAL (1)

TYPICAL STOP LINE PAVEMENT MARKING FOR SIDEROADS WITH CROSSWALK MARKING

TYPICAL STOP LINE PAVEMENT MARKING WITHOUT CURB AND GUTTER

#### **GENERAL NOTES**

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

- 1 18-INCH STOP LINES MAY BE DELETED OR ADDED BY THE PROJECT ENGINEER BASED ON VISIBILITY AND SIGHT LINES.
- 2 IF STOP SIGN IS LESS THAN OR EQUAL TO 40 FEET FROM THE EDGELINE THAN NO STOP LINE IS REQUIRED.
- (3) IF STOP SIGN IS LESS THAN OR EQUAL TO 30 FEET FROM THE FLANGELINE EXTENSION THAN NO STOP LINE IS REQUIRED.
- (4) MOVE CLOSER TO EDGE OF TRAVEL LANE AS NEEDED FOR VISIBILITY AND SIGHT LINES. (NO CLOSER THAN 4 FEET).

#### STOP LINE AND CROSSWALK **PAVEMENT MARKING**

STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION

APPRO	VED.							
Sept	. 2017		/5/	Mat	thew	R. R	auch	
DAT	E 9	STATE	SIGNIN	NG AI	ND MA	RKING	ENGINE	ER
FHWA								

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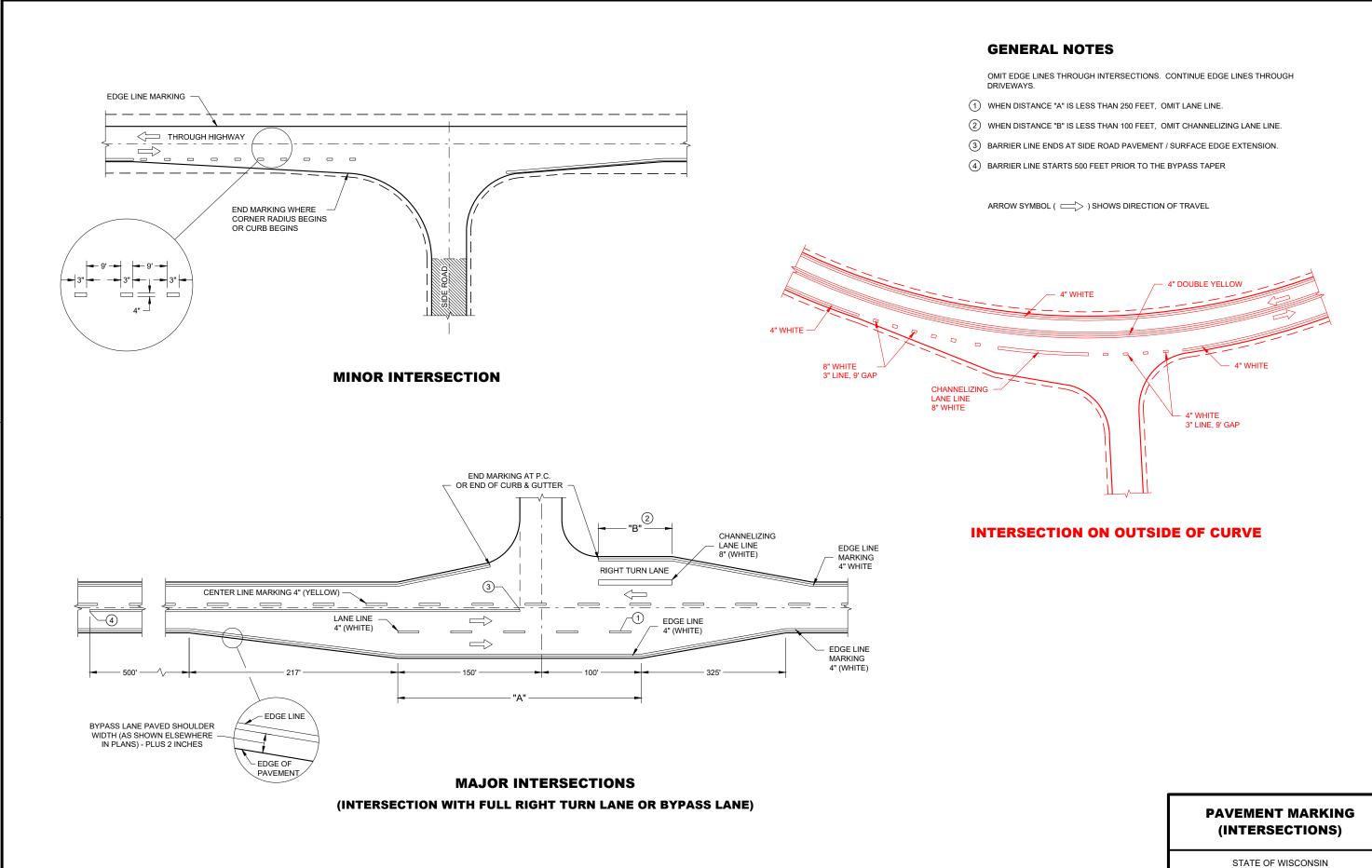
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**SDD 15C35** 

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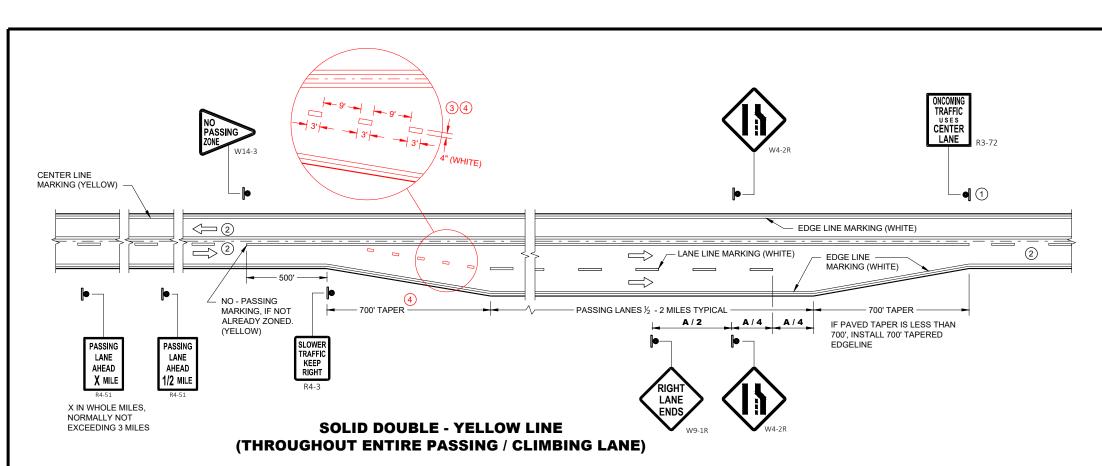
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SDD

DEPARTMENT OF TRANSPORTATION

**03b** 

1



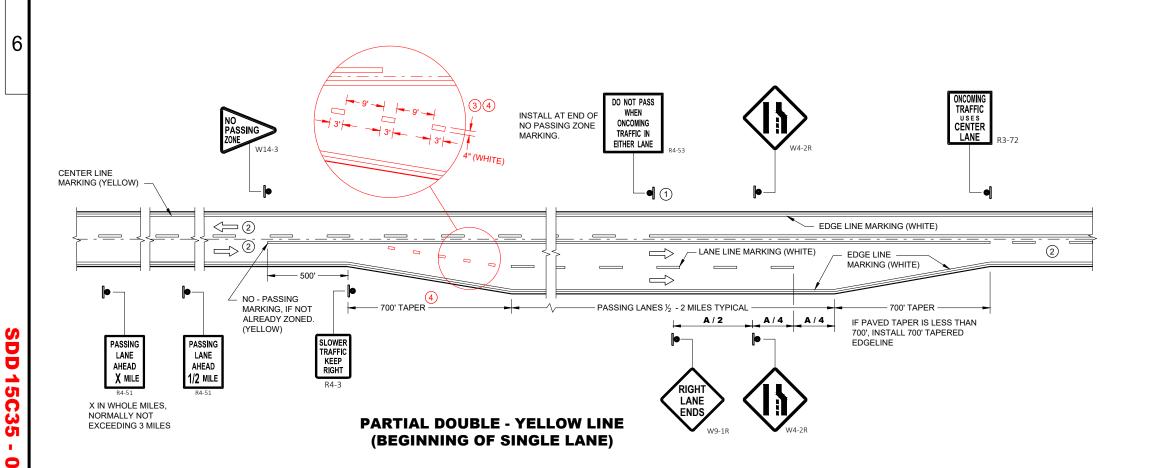
#### **GENERAL NOTES**

- $\bigodot$  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 / CLIMBLING LANE IS LESS THAN THE ADJACENT HIGHWAY, DO NOT INSTALL DOTTED LINE PAVEMENT MARKING.

ARROW SYMBOL ( ) SHOWS DIRECTION OF TRAVEL

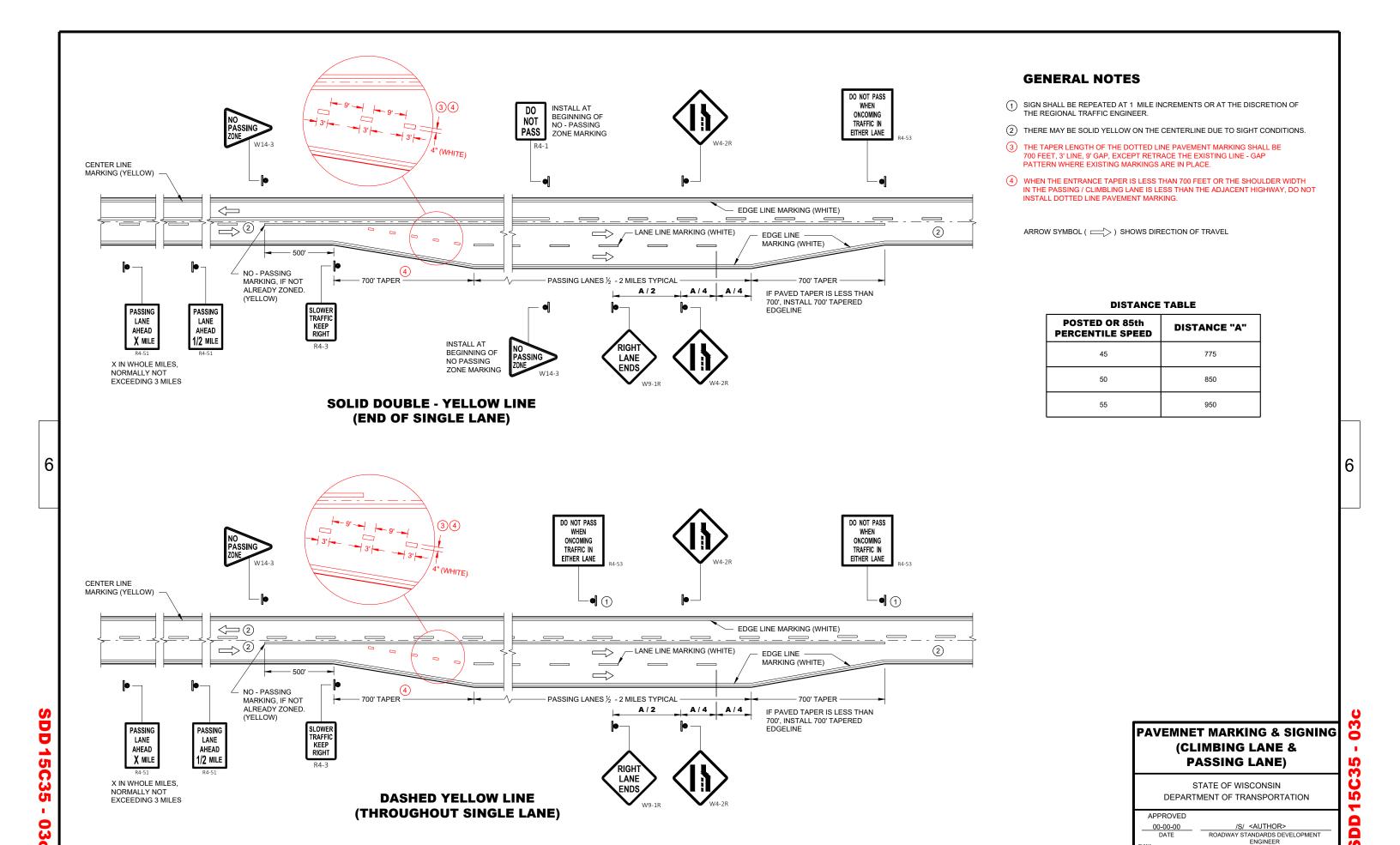
#### **DISTANCE TABLE**

POSTED OR 85th PERCENTILE SPEED	DISTANCE "A"
45	775
50	850
55	950



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

> STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION





# Wisconsin Department of Transportation

Dedicated people creating transportation solutions through innovation and exceptional service.

http://www.dot.wisconsin.gov