APR 2014

ORDER OF SHEETS Section No. 1 Section No. 2 Typical Sections and Details Estimate of Quantities Section No. 3

Section No. 3 Miscellaneous Quantities Right of Way Plat Standard Detail Drawings Section No. 6

Section No. 7

TOTAL SHEETS = 28

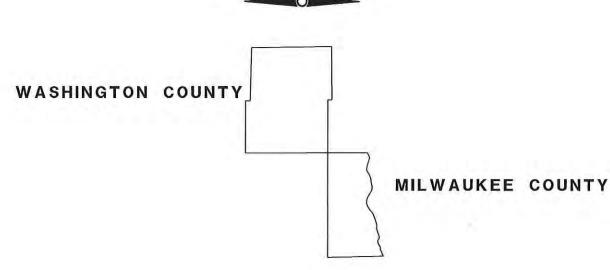
STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION

PLAN OF PROPOSED IMPROVEMENT

EPOXY PAVEMENT MARKING - 2014

VARIOUS HIGHWAYS SE REGION WIDE

> STATE PROJECT NUMBER 1000-77-11





CONVENTIONAL SIGNS

COUNTY LINE CORPORATE LIMITS PROPERTY LINE LOT LINE LIMITED EASEMENT EXISTING RIGHT OF WAY PROPOSED OR NEW R/W LINE SURVEY LINE

SLOPE INTERCEPT ORIGINAL GROUND MARSH OR ROCK PROFILE

EXISTING CULVERT PROPOSED CULVERT CULVERT (Profile View) COMBUSTIBLE FLUIDS

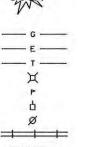
P.L. + 58.1

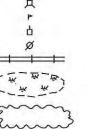
UNDERGROUND UTILITIES ELECTRIC

TELEPHONE OR TELEGRAPH SERVICE PEDESTAL CABLE MARKER

POWER POLE TELEPHONE POLE RAILROAD

WOODED OR SHRUB AREA





LAYOUT PROJECT ID 1000-77-11 = 55.000 MI.

STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION

FEDERAL PROJECT

CONTRACT

PROJECT

WISC 2014101

STATE PROJECT

1000-77-11

PREPARED BY Surveyor

DONALD STEEL Designer Project Manager ____ DON STEEL Regional Examiner TOM HEYDEL

Regional Supervisor HANS HIGDON C.O. Examiner

PLOT BY : mscpp1

PLOT NAME :

PLOT SCALE : 200:1

CONTACTS:

DNR- SPILL HOTLINE (24HR) 1-800-943-0003



Call 8113 Work Days Before You Dig Or Toll Free (800) 242-8511 Hearing Impaired TDD (800) 542-2289 www.DiggersHotline.com

PROJECT NO: 1000-77-11

HWY: VARIOUS

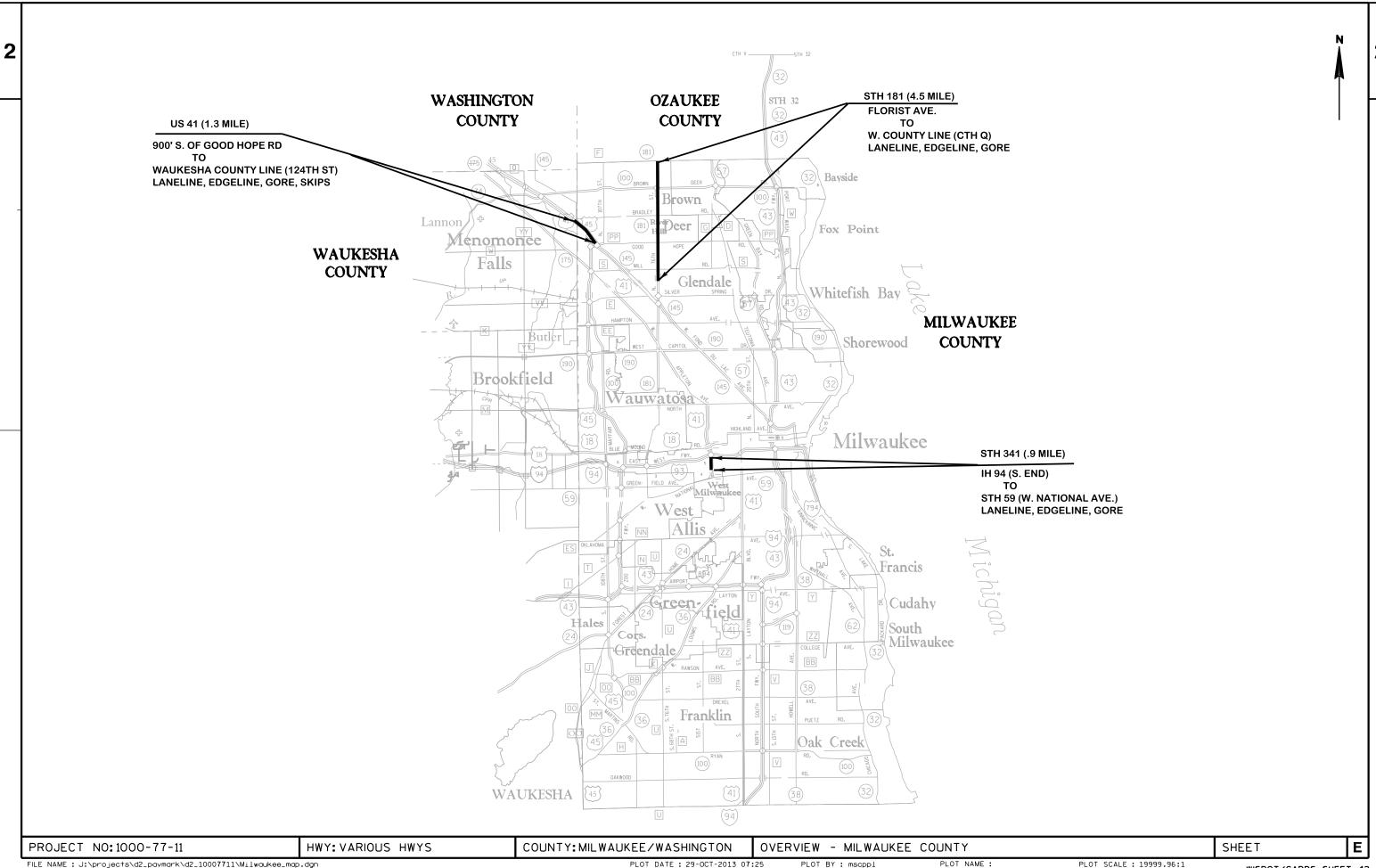
COUNTY: VARIOUS

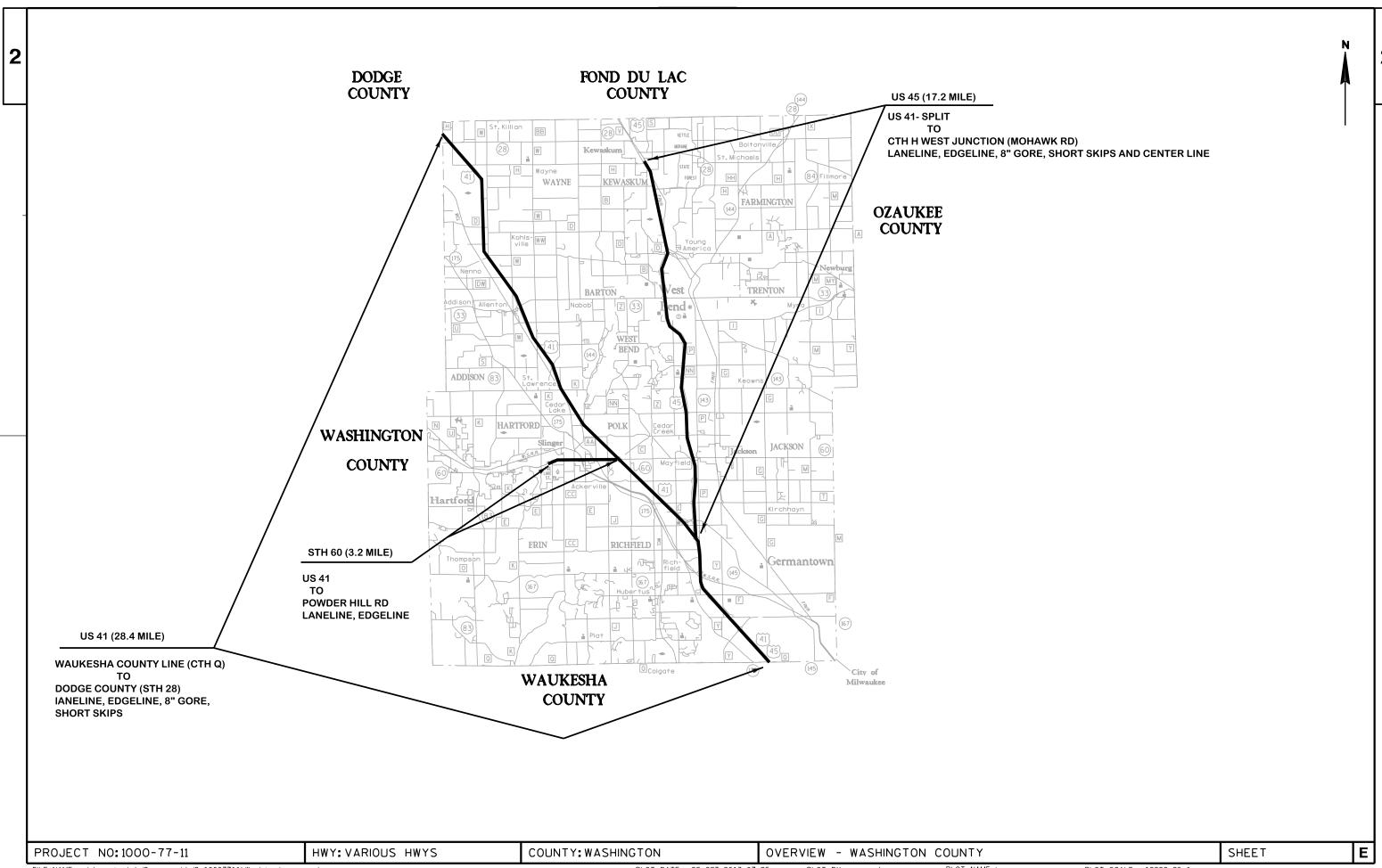
UTILITY CONTACT LIST

PLOT BY: mscppl

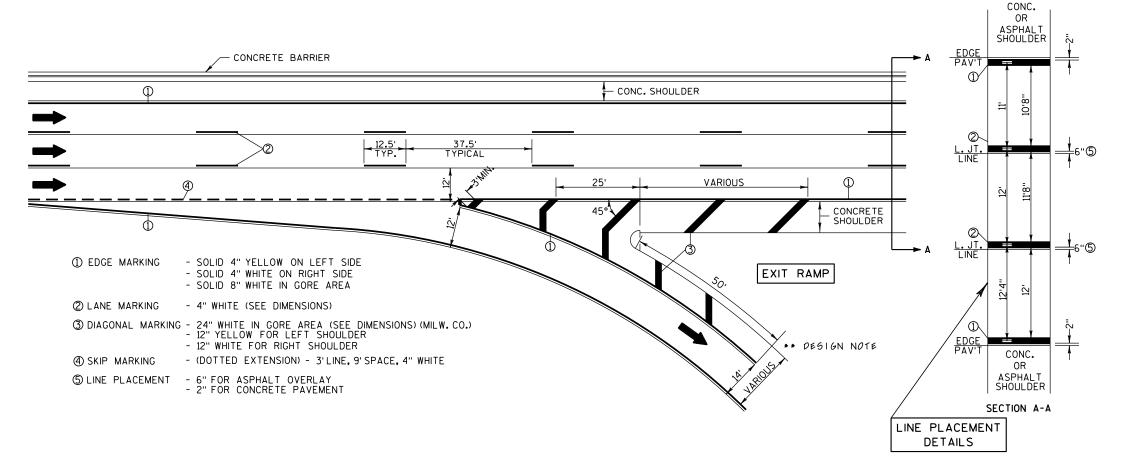
SHEET

Ε



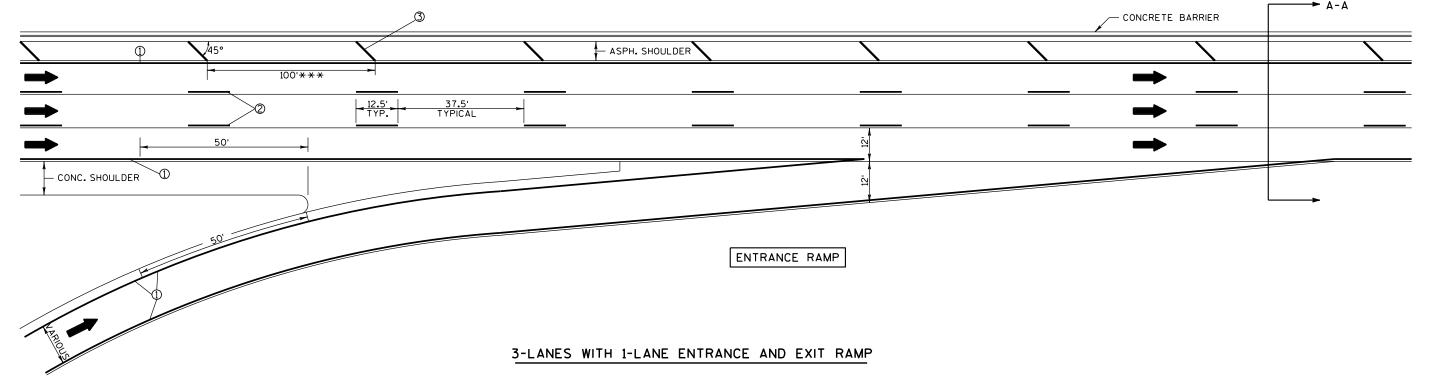






NOTES:

- 1. THE 12" WIDE DIAGONAL SHOULDER MARKING SHALL BE USED ONLY WHERE THE ASPHALTIC CONCRETE SHOULDER ABUTS ASPHALTIC CONC. PAV'T. IF THERE ARE CONTINUOUS RUMBLE STRIPS, DO NOT USE DIAGONAL SHOULDER MARKING.
- 2. WHERE THE DOTTED EXTENSION OF THE RIGHT EDGE LINE IS SHOWN ON THE PLAN, IT SHALL BE 4" WIDE, WITH A LINE SKIP PATTERN CONSISTING OF A 3'LONG LINE AND A 9'SKIP.
- 3. PAVEMENT LANE MARKINGS SHALL BE LOCATED 6" OFF THE LONGITUDINAL JOINT OF THE UNDERLYING CONC. PAVEMENT.
- 4. ARROWS SHOWN ON THIS MARKING PLAN DESIGNATE TRAFFIC FLOW, AND SHALL NOT BE TAKEN AS PROPOSED PAVEMENT MARKINGS.
- 5. SPOTTING FOR PAVEMENT LANE MARKINGS AND EDGE LINES SHALL BE 4"×4" PIECES OF REFLECTORIZED PAV'T MARKING TAPE SPACED AT 50'INTERVALS, INCIDENTAL TO PAV'T MARKING.
- 6. SEE STANDARD DETAIL DRAWING FOR RAISED PAVEMENT MARKERS IN GORE AND LINE WIDTH TOLERANCES.



HWY: VARIOUS

PROJECT NO: 1000-77-11

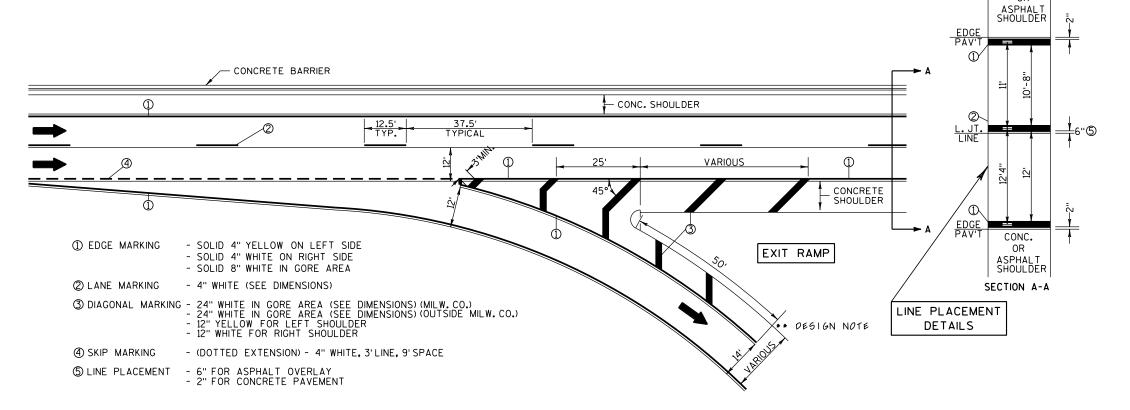
COUNTY: MILWAUKEE

PAVEMENT MARKING DETAIL

GORES, FREEWAYS, & EXPRESSWAYS (EPOXY)

DESIGN NOTES ARE LOCATED ON LEVEL 63

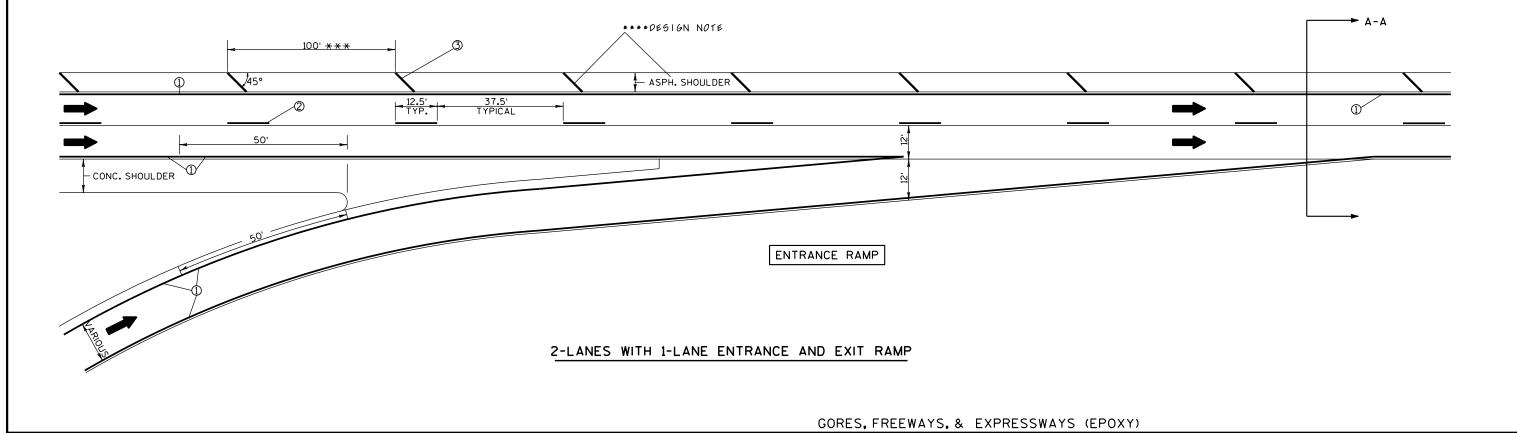




NOTES:

CONC. OR

- 1. THE 12" WIDE DIAGONAL SHOULDER MARKING SHALL BE USED ONLY WHERE THE ASPHALTIC CONCRETE SHOULDER ABUTS ASPHALTIC CONC. PAV'T. IF THERE ARE CONTINUOUS RUMBLE STRIPS, DO NOT USE DIAGONAL SHOULDER MARKING.
- 2. WHERE THE DOTTED EXTENSION OF THE RIGHT EDGE LINE IS SHOWN ON THE PLAN, IT SHALL BE 4" WIDE, WITH A LINE SKIP PATTERN CONSISTING OF A 3'LONG LINE AND A 9'SKIP.
- 3. PAVEMENT LANE MARKINGS SHALL BE LOCATED 6" OFF THE LONGITUDINAL JOINT OF THE UNDERLYING CONC. PAVEMENT.
- 4. ARROWS SHOWN ON THIS MARKING PLAN DESIGNATE TRAFFIC FLOW, AND SHALL NOT BE TAKEN AS PROPOSED PAVEMENT MARKINGS.
- 5. SPOTTING FOR PAVEMENT LANE MARKINGS AND EDGE LINES SHALL BE 4"×4" PIECES OF REFLECTORIZED PAV'T MARKING TAPE SPACED AT 50'INTERVALS, INCIDENTAL TO PAV'T MARKING.
- 6. SEE STANDARD DETAIL DRAWING FOR RAISED PAVEMENT MARKERS IN GORE AND LINE WIDTH TOLERANCES.



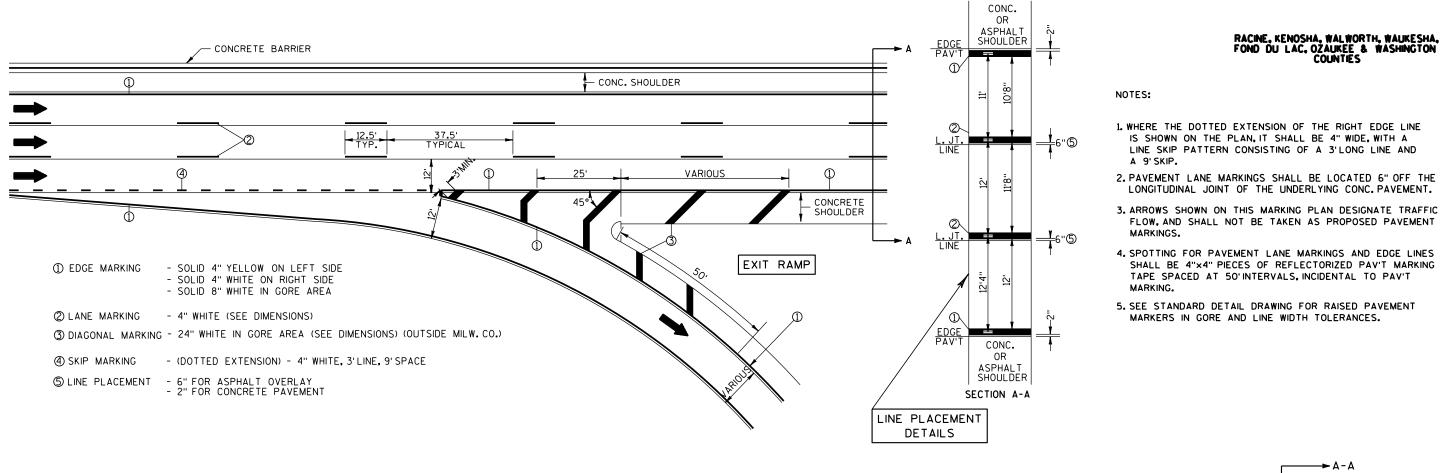
HWY: VARIOUS

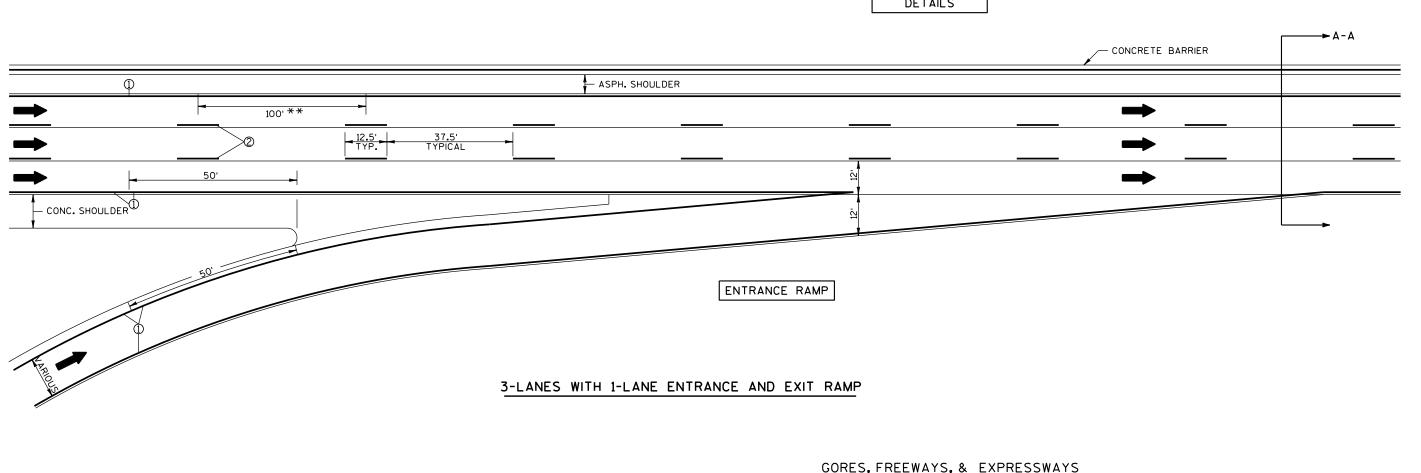
PROJECT NO: 1000-77-11

COUNTY: MILWAUKEE

PAVEMENT MARKING, RAMPS







HWY: VARIOUS

PROJECT NO: 1000-77-11

COUNTY: OUTSIDE MILWAUKEE CO.

EPOXY PAVEMENT MARKING, RAMPS



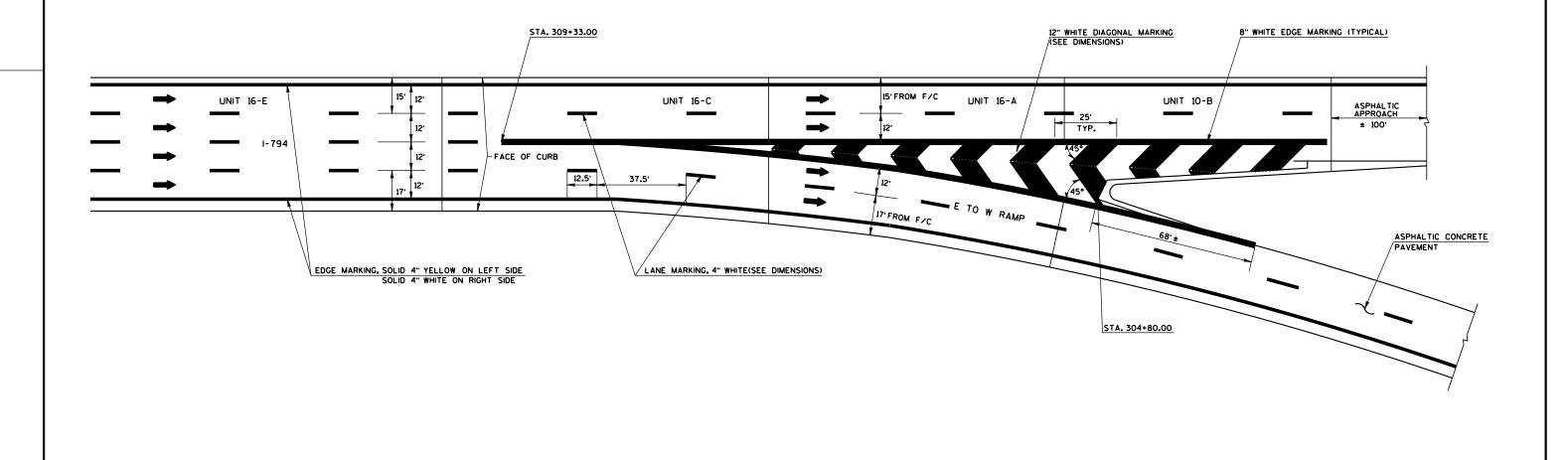
NOTES: PAVEMENT LANE MARKINGS AND EDGE LINES SHALL BE IN ACCORDANCE WITH THE CURRENT EDITION OF THE "WISCONSIN MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES."

GORE MARKING SHALL BE PROVIDED AT ALL LOCATIONS AND SHALL DUPLICATE THE EXISTING GORE MARKINGS BEFORE RESURFACING OR AS DIRECTED BY THE ENGINEER.

ARROWS SHOWN ON THIS MARKING PLAN DESIGNATE TRAFFIC FLOW, AND SHALL NOT BE TAKEN AS PROPOSED PAVEMENT MARKINGS.

SPOTTING FOR PAVEMENT LANE MARKINGS AND EDGE LINES SHALL BE 4" X 4" PIECES OF REFLECTORIZED PAV'T MARKING TAPE SPACED AT 50'INTERVALS.

TEMPORARY PAVEMENT MARKING SHALL BE IN PLACE PRIOR TO COMPLETION OF FINAL ROLLING OF THE BINDER COURSE.



FILE NAME: J:\projects\d2_pavmark\d2_10007711\PMGORE_DETAILS.DGN

HWY: VARIOUS

PROJECT NO: 1000-77-11

COUNTY: WASHINGTON

PLOT BY: mscppl

EPOXY PAVEMENT MARKING DETAIL

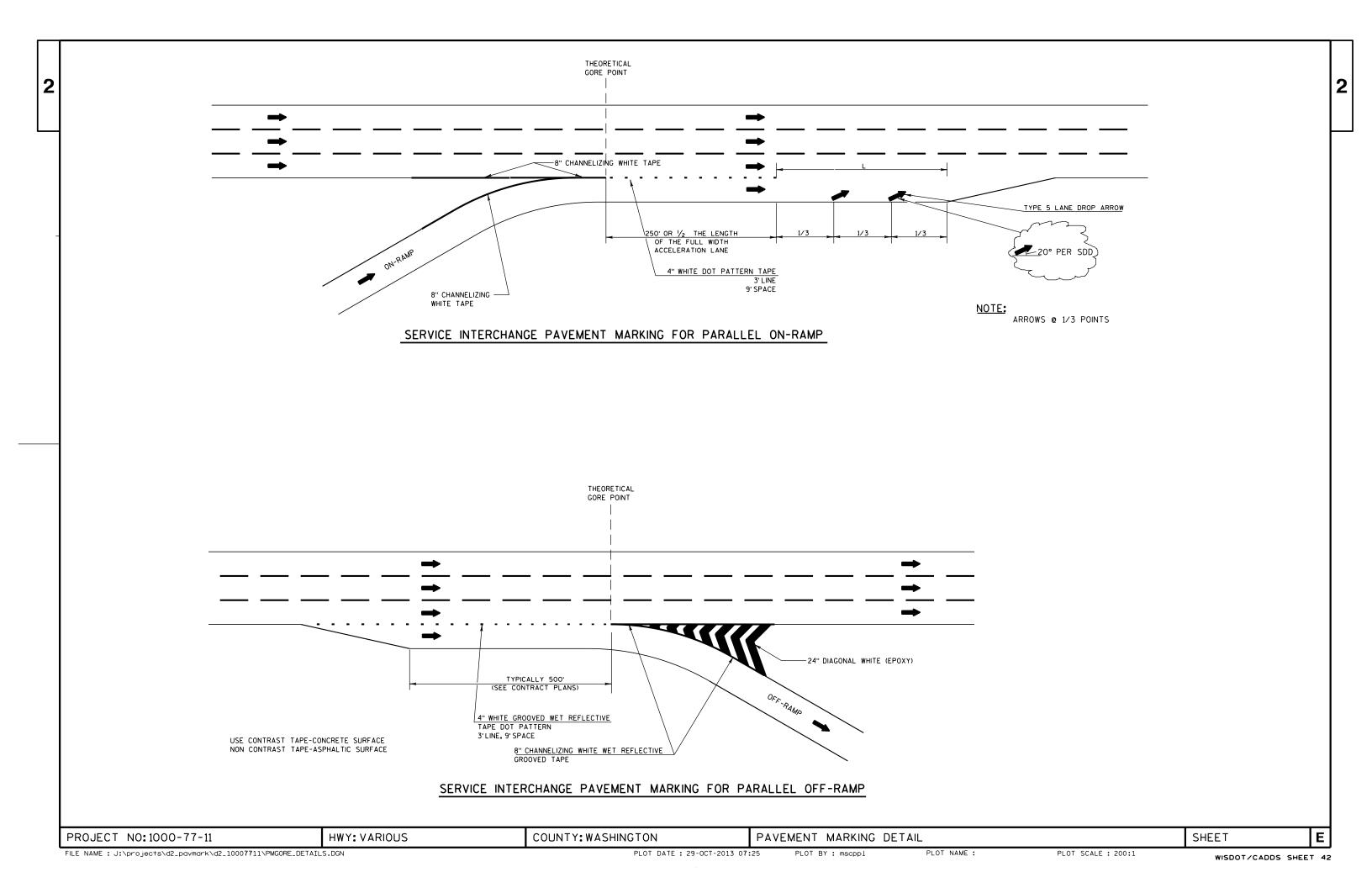
PLOT NAME :

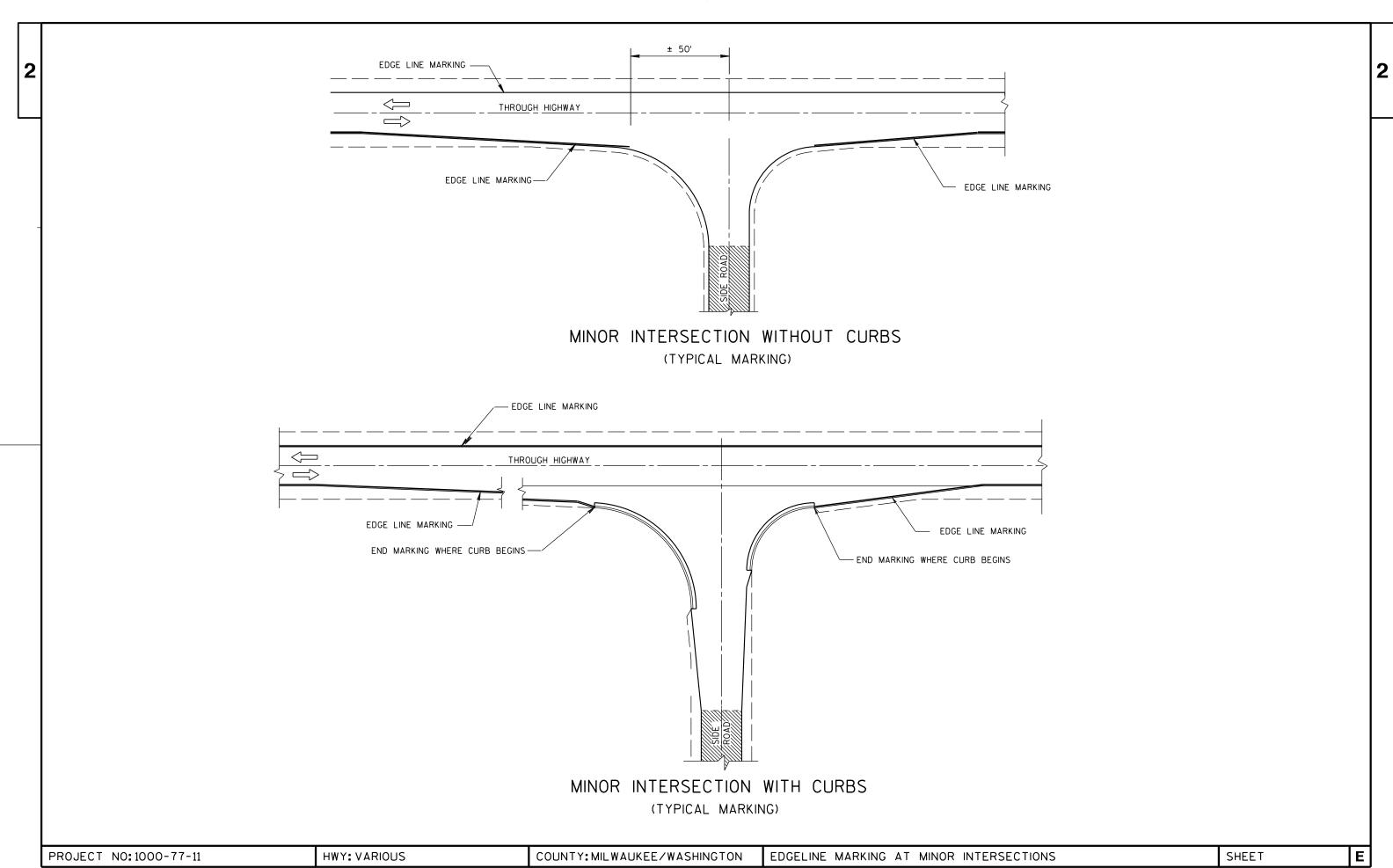
MAJOR SPLIT FREEWAY TO FREEWAY

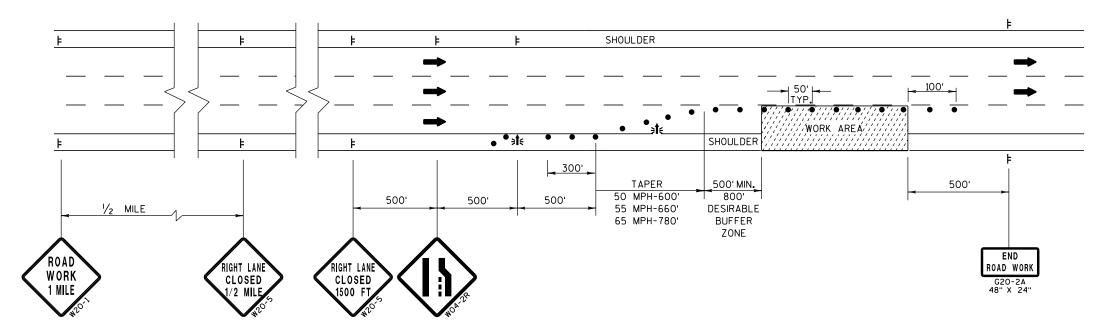
PLOT SCALE : 200:1

SHEET E

200:1 WISDOT/CADDS SHEET 42







LEGEND

ARROW BOARD

➡ DIRECTION OF TRAFFIC

| SIGN ON TEMPORARY SUPPORT

DRUM

WORK AREA

TRAFFIC CONTROL NOTES

RIGHT LANE CLOSURE SHOWN, LEFT LANE CLOSURE SIMILAR.

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

FOR NIGHTTIME OPERATION ALL DRUMS IN TAPERS SHALL HAVE A WARNING LIGHT, TYPE C (STEADY BURN).

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

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

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 DIRECTED BY THE ENGINEER.

ALL SHORT TERM LANE CLOSURE SIGNS SHALL BE REMOVED OR COVERED AND ALL ARROWBOARDS AND DEVICES REMOVED BEYOND THE SHOULDER WHEN THE WORK IS NOT IN PROGRESS AND THE LANE IS RESTORED TO A SAFE OPERATING CONDITION.

IF LANE CLOSURE IS MORE THAN 1 MILE, PLACE A TYPE III BARRICADE APPROXIMATELY EVERY 1000' ACROSS THE CLOSED LANE TO HELP ENFORCE THE DRUM LINE.

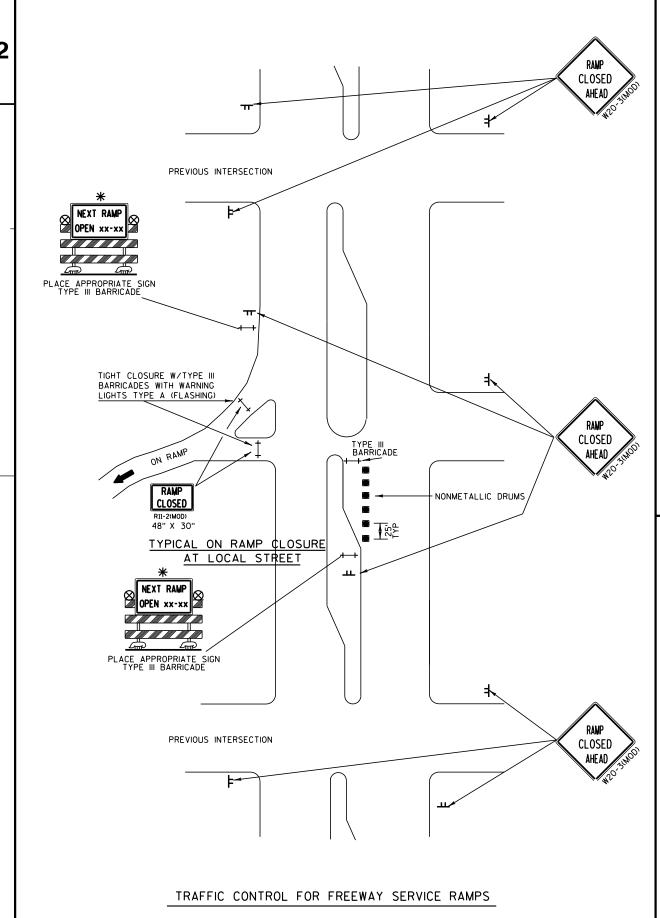
CONSIDER GEOMETRICS WHEN LOCATING SIGNS AND ARROWBOARDS SO THE DRIVER HAS A CLEAR VIEW OF THE ARROWBOARD AND LANE CLOSURE DRUMS FOR A MINIMUM 1500' IN FRONT OF DRUMS.

PLOT NAME :

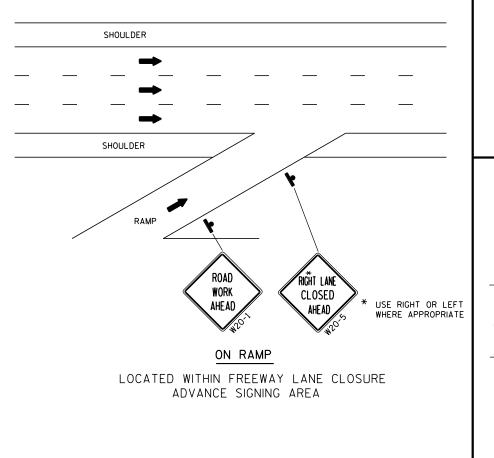
SPEEDS 45 OR GREATER

PROJECT NO:1000-77-11 HWY:VARIOUS COUNTY:MILWAUKEE/WASHINGTON TRAFFIC CONTROL DETAIL - LANE CLOSURE SHEET E





HWY: VARIOUS

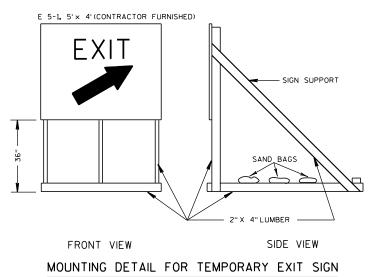


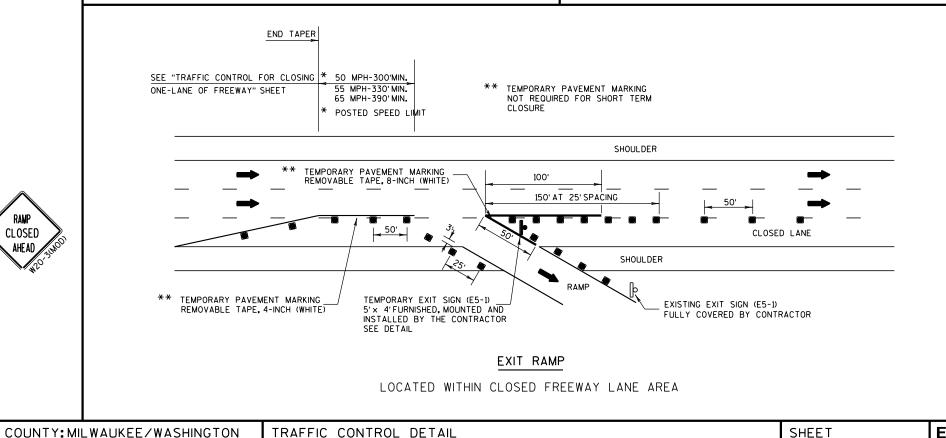
LEGEND

- - DRUM
- - SIGN ON FIXED SUPPORT

GENERAL NOTES

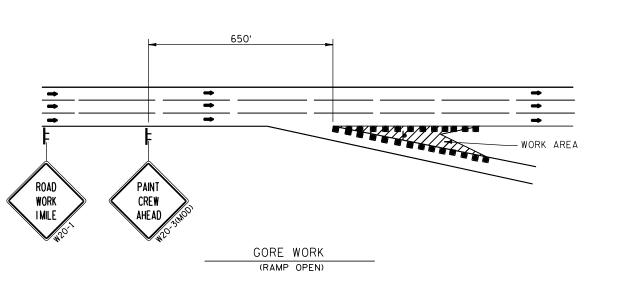
- 1. ALL SIGNS SHALL BE 48" X 48" UNLESS OTHERWISE NOTED.
- 2. FOR SHORT TERM (3 DAYS OR LESS) FREEWAY LANE CLOSURES TEMPORARY SIGN SUPPORTS MAY BE USED. REMOVE OR COVER SIGNS WHEN NOT IN USE.





PROJECT NO: 1000-77-11

PLOT BY : mscppl



GENERAL NOTES FOR TRAFFIC CONTROL

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

CHANNELIZING DEVICES PLACED ADJACENT TO WORK AREA SHALL BE PULLED BACK FROM TRAVEL LANE AND OFF OF SHOULDER 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 DIRECTED BY THE ENGINEER.

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

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

CONSIDER GEOMETRICS WHEN LOCATING SIGNS AND ARROWBOARDS SO THE DRIVER HAS A CLEAR VIEW OF THE ARROWBOARD AND LANE CLOSURE DRUMS FOR A MINIMUM 1500' IN FRONT OF DRUMS.

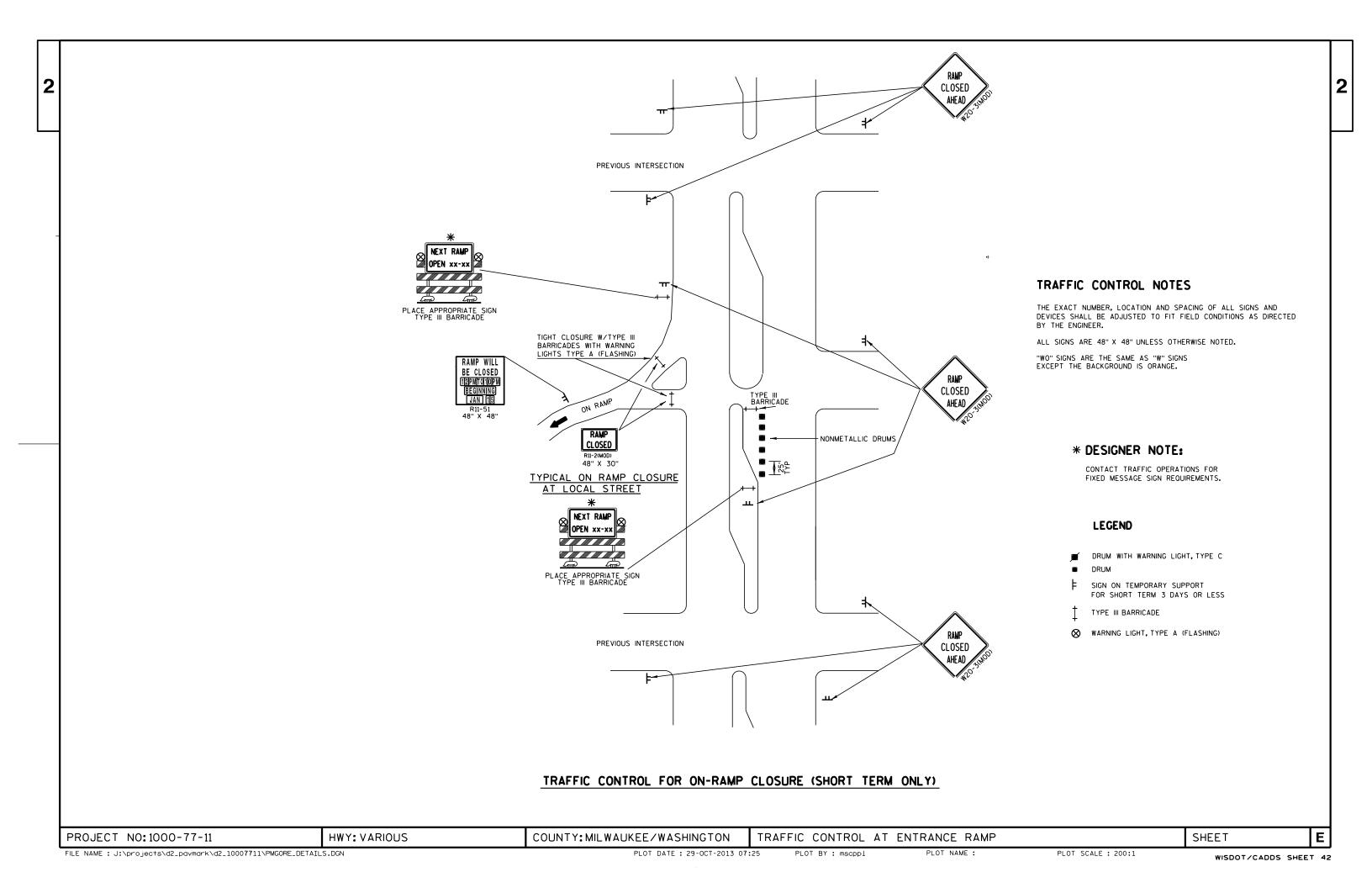
SPECIAL APPLICATION NOTES

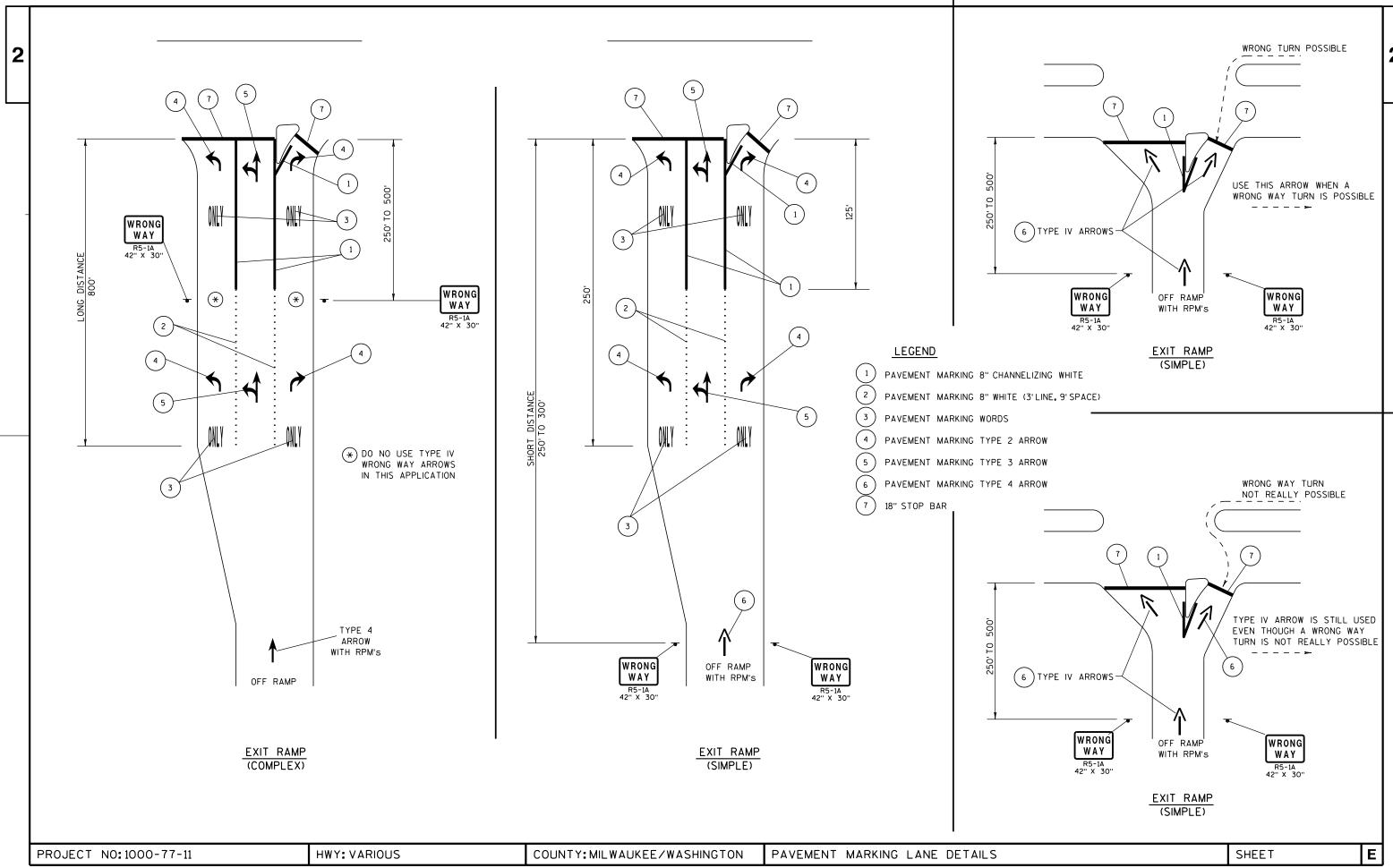
ALL LANE CLOSURE SIGNS SHALL BE REMOVED OR COVERED AND ALL ARROWBOARDS AND DEVICES REMOVED BEYOND THE SHOULDER WHEN THE WORK IS NOT IN PROGRESS AND THE LANE IS RESTORED TO A SAFE OPERATING CONDITION.

LEGEND

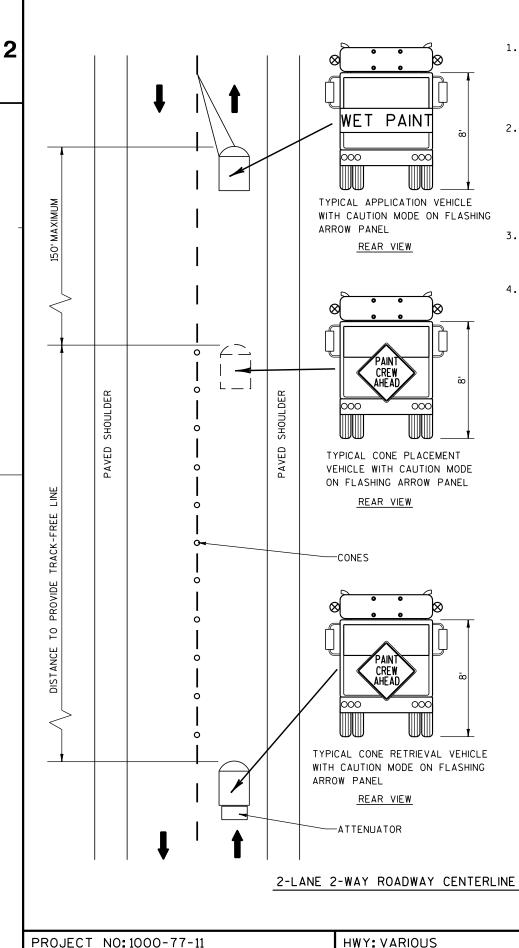
SIGN ON TEMPORARY SUPPORT

■ TRAFFIC CONTROL DEVICE

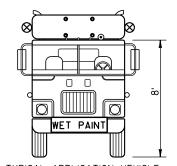






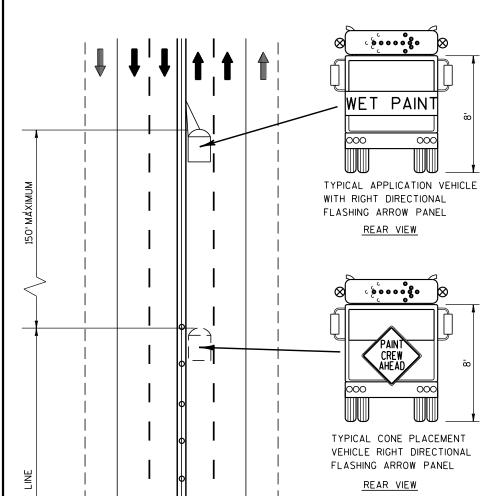


- 1. ALL VEHICLES SHALL BE EQUIPPED WITH ROTATING YELLOW BEACONS OR STROBE LIGHTS MOUNTED SUCH THAT AT LEAST ONE CAN BE SEEN FROM ANY APPROACH ANGLE.
- 2. THE APPLICATION VEHICLE SHALL BE EQUIPPED WITH FRONT AND REAR FACING TYPE A OR B FLASHING ARROW PANELS OPERATING IN CAUTION MODE. ALL SUBSEQUENT VEHICLES SHALL BE EQUIPPED WITH A REAR FACING TYPE A OR B FLASHING ARROW PANEL.
- 3. THE APPLICATION VEHICLE SHALL BE EQUIPPED WITH "WET PAINT" SIGNS FRONT AND REAR.
- 4. THE CONE PLACEMENT VEHICLE AND CONE RETRIEVAL VEHICLE SHALL BE EQUIPPED WITH A "PAINT CREW AHEAD" SIGN AND A REAR FACING FLASHING ARROW PANEL OPERATING IN CAUTION MODE.



TYPICAL APPLICATION VEHICLE WITH CAUTION MODE ON FLASHING ARROW PANEL

FRONT VIEW



- 1. ALL VEHICLES SHALL BE EQUIPPED WITH ROTATING YELLOW BEACONS OR STROBE LIGHTS MOUNTED SUCH THAT AT LEAST ONE CAN BE SEEN FROM ANY APPROACH ANGLE.
- 2. ALL VEHICLES SHALL BE EQUIPPED WITH A TYPE A OR B FLASHING ARROW PANEL.
- 3. THE APPLICATION VEHICLE SHALL BE EQUIPPED WITH "WET PAINT" SIGNS FRONT AND REAR AND A RIGHT DIRECTIONAL FLASHING ARROW PANEL FACING THE REAR.
- 4. THE CONE PLACEMENT VEHICLE AND CONE RETRIEVAL VEHICLE SHALL BE EQUIPPED WITH A "PAINT CREW AHEAD" SIGN AND A REAR FACING RIGHT DIRECTIONAL FLASHING ARROW PANEL.

4 OR 6 LANE 2-WAY ROADWAY CENTERLINE

-CONES

CREW

TYPICAL CONE RETRIEVAL VEHICLE

WITH RIGHT DIRECTIONAL FLASHING

REAR VIEW

ARROW PANEL

-ATTENUATOR

COUNTY: MILWAUKEE/WASHINGTON

0

PAVEMENT MARKING PLOT NAME :

SHEET PLOT SCALE : 200:1

FILE NAME: J:\projects\d2_pavmark\d2_10007711\PMGORE_DETAILS.DGN

PLOT DATE: 29-OCT-2013 07:26 PLOT BY: mscppl Ε

LINE					1000-77-11	
NUMBER	ITEM	ITEM DESCRIPTION	UNI T	TOTAL	QUANTI TY	
0010	619. 1000	MOBILIZATION	EACH	1. 000	1. 000	
0020	643.0100	TRAFFIC CONTROL (PROJECT) 01. 1000-77-11	EACH	1. 000	1. 000	
0030	646. 0106	PAVEMENT MARKING EPOXY 4-INCH	LF	1, 366, 135. 000	1, 366, 135. 000	
0040	646. 0126	PAVEMENT MARKING EPOXY 8-INCH	LF	114, 283. 000	114, 283. 000	
0050	646.0600	REMOVING PAVEMENT MARKINGS	LF	1,000.000	1, 000. 000	

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EPOXY PAVEMENT MARKING - 2014 VAR. HWY (1000-77-11) SE REGION										Category: 0010
SE REGION				646.0106				64	6.0126	7
				EP(EPOXY PAVEMENT MAR			EPOXY	EPOXY	_
				4-INCH	4-INCH	4-INCH	4-INCH	8-INCH	8-INCH	
				YELLOW	WHITE	LANE	MINI			
				EDGE LINE	EDGE LINE	LINE	SKIPS	GORES	GORES	
				L.F.	L.F.	L.F.	L.F.	L.F.	L.F.	
			Total							_
County	Hwy	Location	Miles		MAIN LINE		RA	MPS	MAIN LINE	INFORMATION
Washington Co	US 41	Wauk Co (CTH Q) to Dodge Co (STH 28) Interchanges	28.4	257,873	300,696	88,212				
		CTH Q		1,743	4,013		127	1,901		
		STH 167 East		3,115	7,603		296	3,908		
		STH 167 West		3,168	7,920		296	4,435		
		STH 45						3,802		
		STH 145		3,591	8,501		243	4,541		
		STH 60		3,700	9,724		201	4,858		
		** STH 144		0	0		0	0		** Exclude STH 144 Interchange 2014 Construction
		* СТН К		5,227	10,137		64	6,336		* 1.2 miles S of K to 1.4 miles N of K Skips are Tap
										Do Not Epoxy 4" Skips in this section
		CTIL 22		4.424	0.020		0.4	C 010		Both directions
		STH 33 CTH D		4,434 5,175	9,029 10,613		84 74	6,018 6,969		
		A. SUBTOTALS	28.4	288,026	368,236	88,212	1,385	42,768	0	
		A. JOBIOTALS	20.4	288,020	300,230	00,212	1,363	42,708	U	INFORMATION
Washington Co	US 45	US 41 to CTH H-West Jct (Mohawk Rd)	17.2	177,248	149,180	41,946			4,859	** Mohawk Rd to Friendly Dr - Skips are Tape
										Do Not Epoxy 4" Skips in this section
										Both directions
		Interchanges								
		CTH D		4,540	8,819		272	4,224		
		STH 33		3,485	8,236		232	4,646		
		Paradise Rd		4,488	9,346		211	4,858		
		CTH PV		4,277	8,976		264	3,802		
		STH 60		3,432	8,184		243	4,646		
		STH 145	4= 0	3,485	8,342	44.046	243	4,330	4.050	
		B. SUBTOTALS	17.2	200,955	201,083	41,946	1,465	26,506	4,859	

FILE NAME
N:SPO\OPERTIONS\TRAFFIC_OPS\SIGNING\MISC\20
14 PAV.MRK.PROJ. MISC.QUANT.

EPOXY PAVEMENT MARKING - 2014 VAR. HWY (1000-77-11) SE REGION

Category: 0010

	646.010	646.0126			
EPO	OXY PAVEMEN	EPOXY	EPOXY		
4-INCH	4-INCH	4-INCH	4-INCH	8-INCH	8-INCH
YELLOW	WHITE	LANE	MINI		
EDGE LINE	EDGE LINE	LINE	SKIPS	GORES	GORES
L.F.	L.F.	L.F.	L.F.	L.F.	L.F.

Total

			Total							
County	Hwy	Location	Miles	M	AIN LINE		RAIV	1PS	MAIN LINE	INFORMATION
										INFORMATION
Milwaukee Co.	US 41	900' S. of Good Hope Rd to Wauk Co. Line (124 str.)	1.3	7,656	6,284	4,475				Start 4" Skips, Yellow & White Edgelines with Good Hope Rd Gores Both directions
		Interchanges								
		CTH D		3,446	14,419		433	4,012		
		STH 33		3,802			243	3,167		
		C. SUBTOTALS	1.3	14,904	20,703	4,475	676	7,179	0	
										INFORMATION
Milwaukee Co.	STH 341	I-94 (South End) to STH 59 (W National Ave)	.9	10,296	11,327	4,313				
		Miller Way		1,420			638	2218		
		I-94					275	3,011		
		STH 59			275				317	
		D. SUBTOTALS	.9	11,716	11,602	4,313	913	5,229	317	
										INFORMATION
Milwaukee Co.	STH181	Florist Ave to Milw Co. (Co. Line Rd)	4.5	4,805	12,355	19,576	171		20,891	
		E. SUBTOTALS	4.5	4,805	12,355	19,576	171	0	20,891	INFORMATION
Washington Co	STH 60	US 41 to Powder Hill Rd	3.2	19,221	28,989	20271	137	1690	4844	All Markings Include bridge deck over 41
		F. SUBTOTALS	3.2	19,221	28,989	20,271	137	1,690	4,844	

PROJECT NO:1000-77-11 HWY:VARIOUS COUNTY: MILWAUKEE\WASHINGTON PAVEMENT MARKING QUANTITIES SHEET: **E**

|3

Epoxy Pavement Marking 2014					6	646.0126		Category: 0010		
Var. Hwy (1000-77-11)				EPOXY P	RKING	EPOXY	EPOXY			
	SE Region			4-INCH	4-INCH	4-INCH	4-INCH	8-INCH	8-INCH	
				YELLOW	WHITE	LANE	MINI			
				EDGE LINE	EDGE LINE	LINE	SKIPS	GORES	GORES	
County	Hwy	Location	Miles	L.F.	L.F.	L.F.	L.F.	L.F.	L.F.	
Washington Co	US 41	Wauk Co (CTH Q) to Dodge Co (STH 28)	28.4	288,026	368,236	88,212	1,385	42,768	0	A. SUBTOTALS
Washington Co	US 45	US 41 to CTH H-West Jct (Mohawk Rd)	17.2	200,955	201,083	41,946	1,465	26,506	4,859	B. SUBTOTALS
Milwaukee Co.	US 41	900' S.of GoodHope Rd to Wauk Co.Line(124str)	1.3	14,904	20,703	4,475	676	7,179	0	C. SUBTOTALS
Milwaukee Co.	STH 341	I-94 (South End) to STH 59 (W National Ave)	.9	11,716	11,602	4,313	913	5,229	317	D. SUBTOTALS
Milwaukee Co.	STH181	Florist Ave to Milw Co. (Co. Line Rd)	4.5	4,805	12,355	19,576	171	0	20,891	E. SUBTOTALS
Washington Co	STH 60	US 41 to Powder Hill Rd	3.2	19,221	28,989	20271	137	1690	4844	F. SUBTOTALS
		SUBTOTALS	55.5	539,627	642,968	178,793	4,747	83,372	30,911	
		FINAL TOTALS			1,366,13	35	_	114	,283	

PROJECT NO:1000-77-11 HWY:VARIOUS COUNTY: MILWAUKEE \ WASHINGTON PAVEMENT MARKING QUANTITIES SHEET: **E**

Standard Detail Drawing List

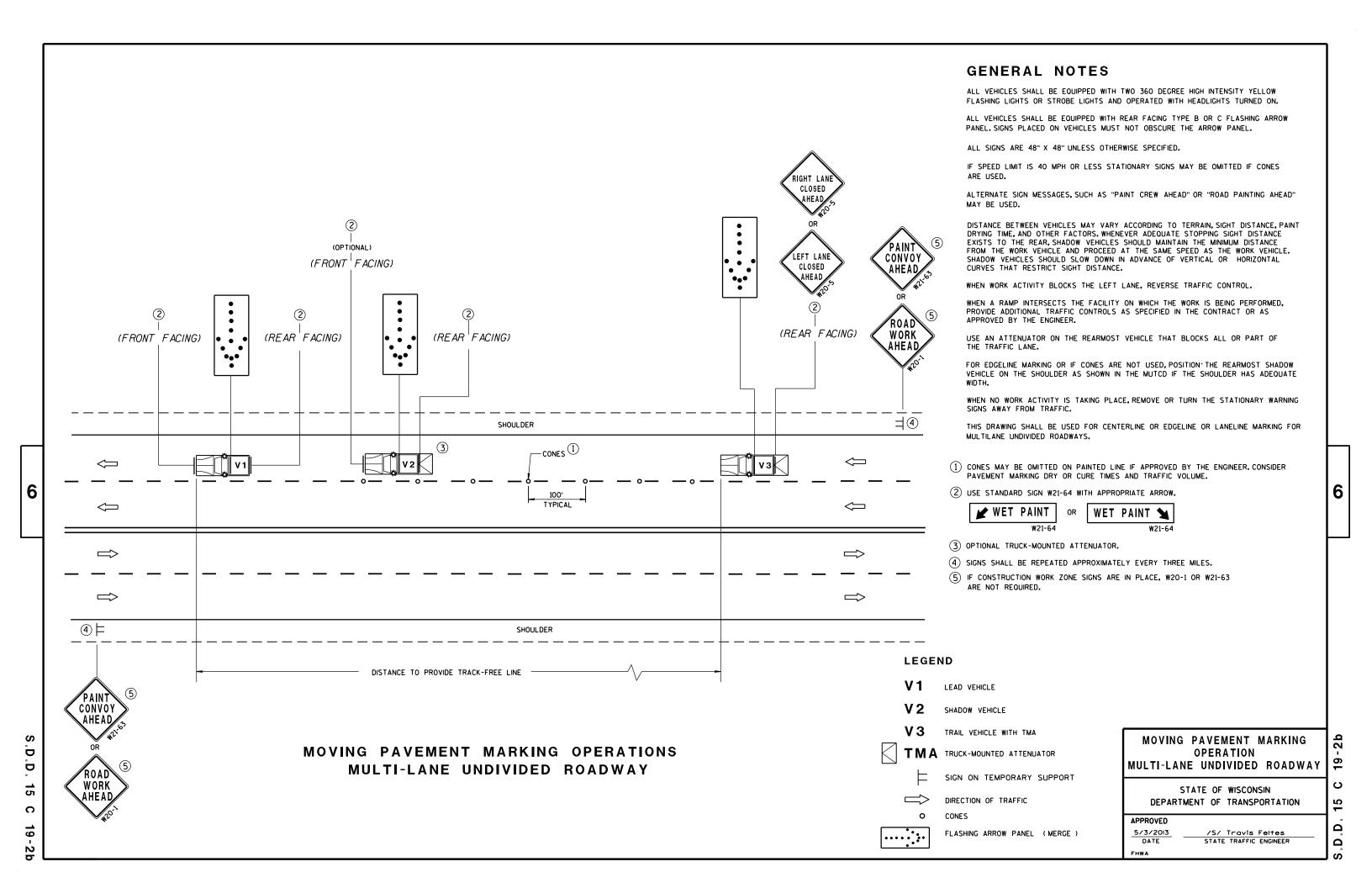
15C08-16A	PAVEMENT MARKING (MAINLINE)
15C08-16B	PAVEMENT MARKING (INTERSECTIONS)
15C19-02B	MOVING PAVEMENT MARKING OPERATION MULTI-LANE UNDIVIDED ROADWAY
15C19-02C	MOVING PAVEMENT MARKING OPERATION MULTI-LANE DIVIDED ROADWAY
15C31-01A	PAVEMENT MARKING (RAMPS AND GORES)
15C31-01C	PAVEMENT MARKING MAJOR SPLIT FREEWAY TO FREEWAY

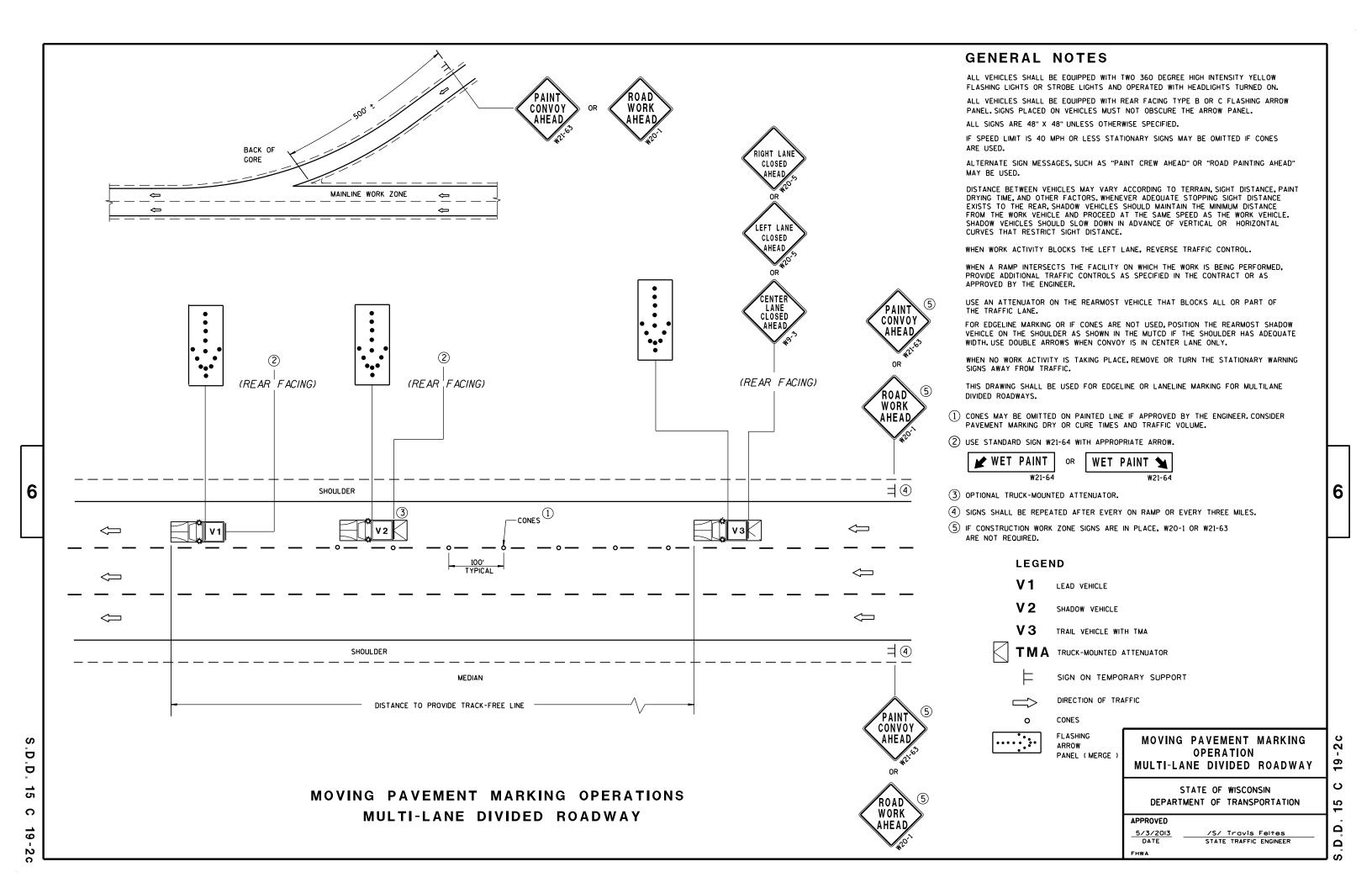
6

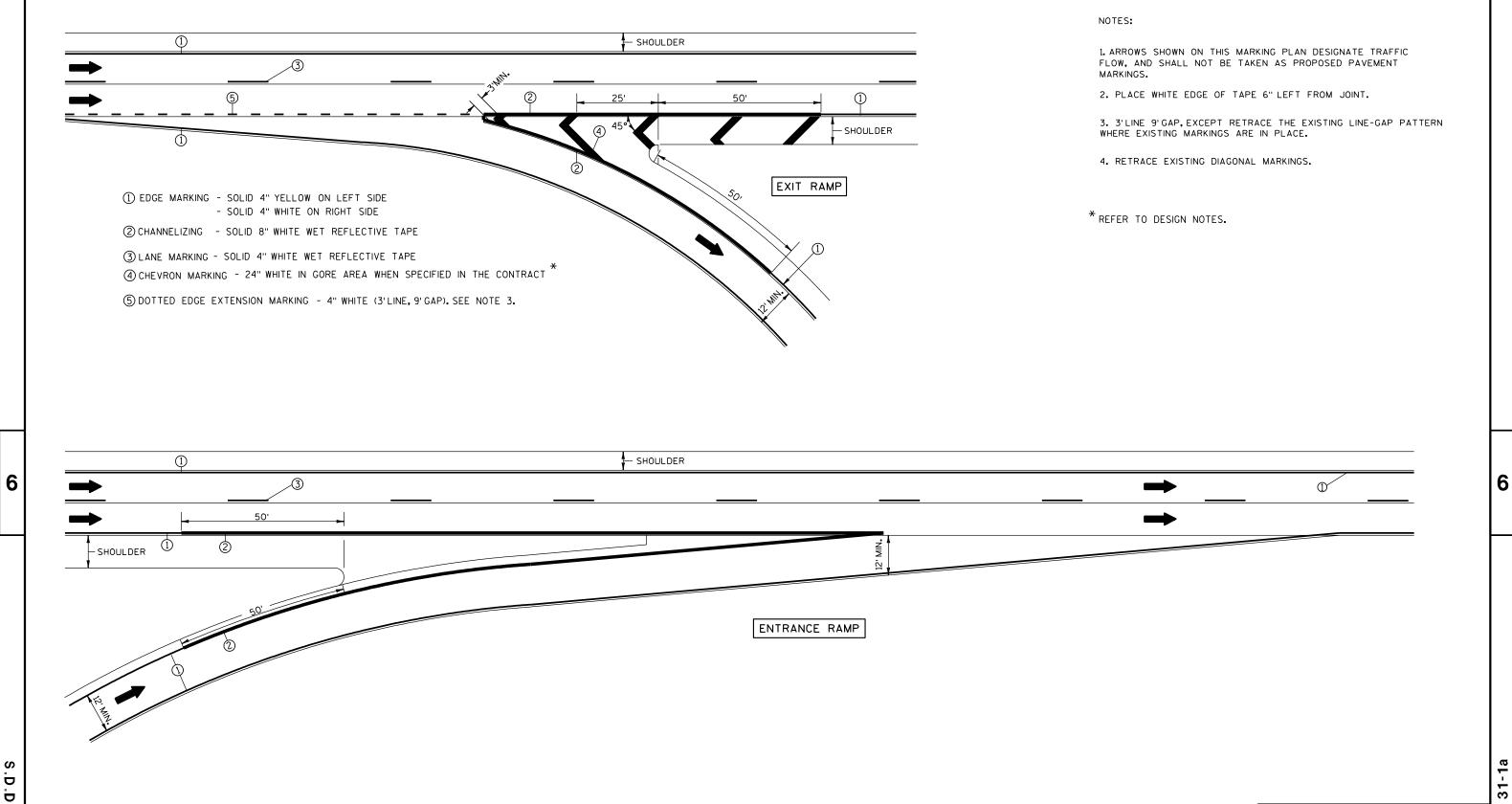
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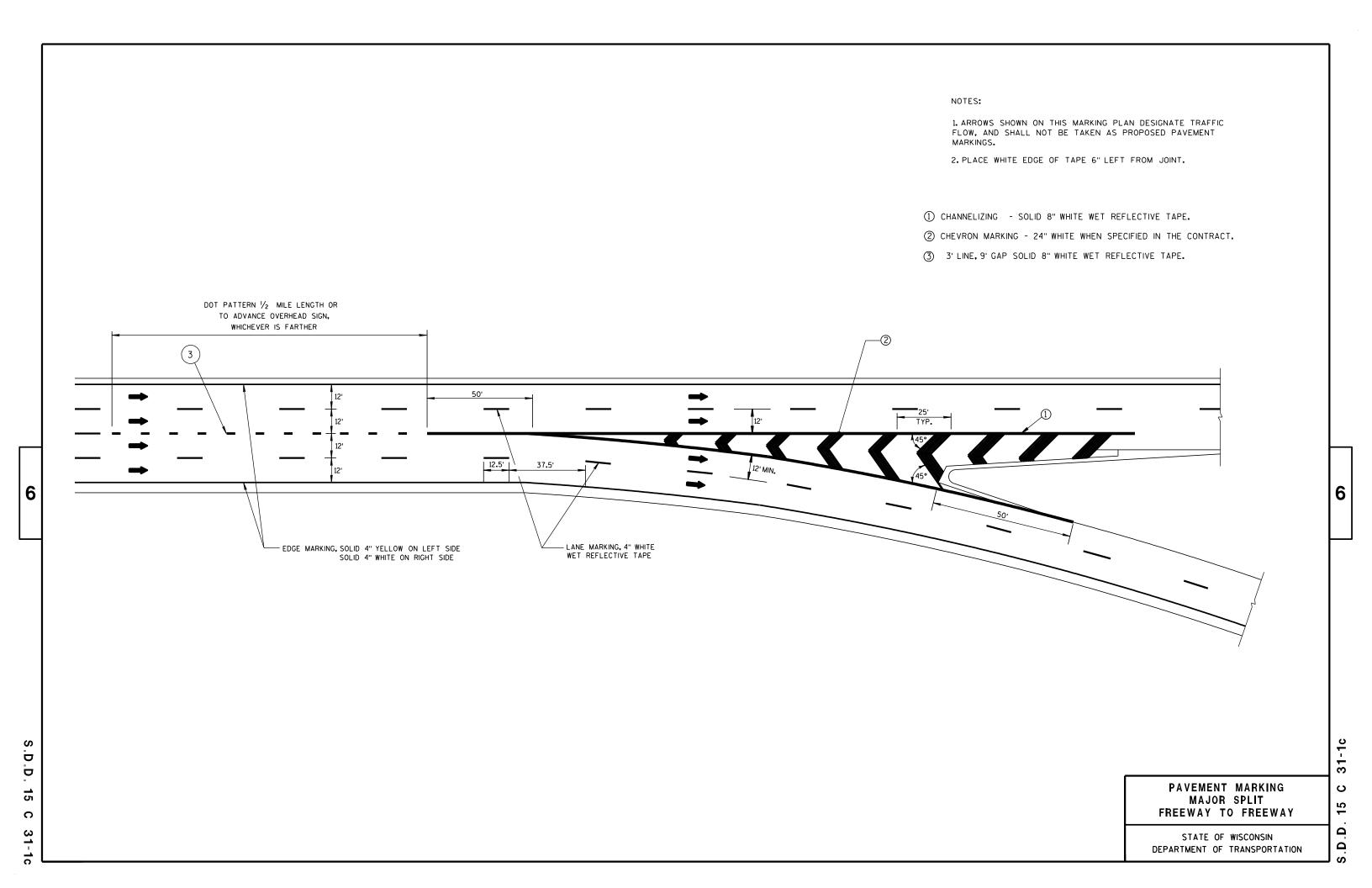


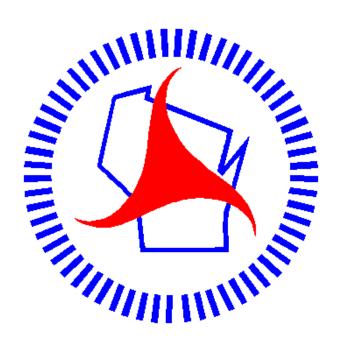
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