

ORDER OF SHEETS

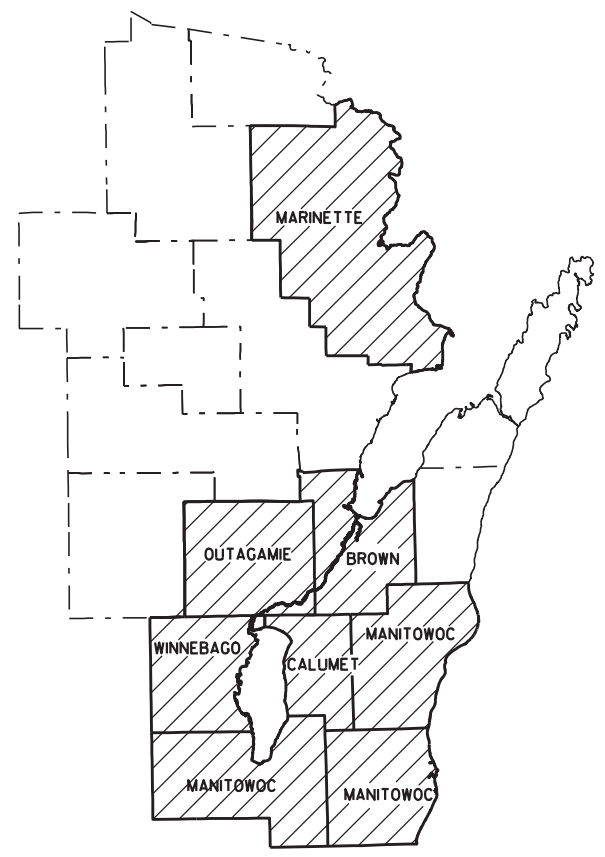
Section No. 1	Title
Section No. 2	Typical Sections and Details
Section No. 3	Estimate of Quantities
Section No. 3	Miscellaneous Quantities
<del>Section No. 4</del>	<del>Right of Way Plot</del>
Section No. 5	Plan and Profile
Section No. 6	Standard Detail Drawings
<del>Section No. 7</del>	<del>Sign Plates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

TOTAL SHEETS = 42



STATE OF WISCONSIN  
DEPARTMENT OF TRANSPORTATION  
PLAN OF PROPOSED IMPROVEMENT  
EPOXY PAVEMENT MARKING  
VARIOUS HIGHWAYS  
NE REGION WIDE

STATE PROJECT NUMBER  
**1009-33-13**



LAYOUT  
SCALE 0 2 MI.

TOTAL NET LENGTH OF CENTERLINE = 166.5 MI.

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

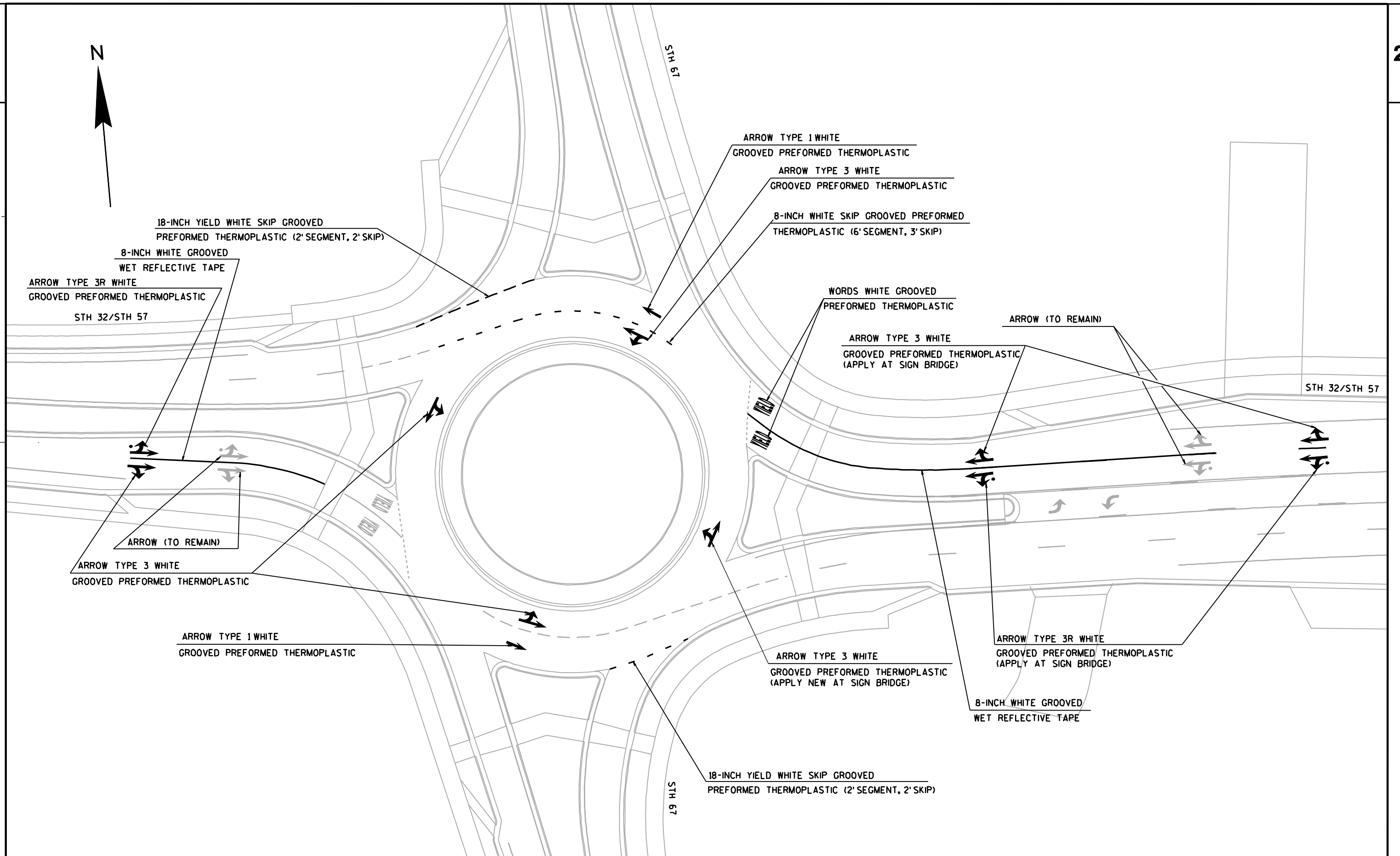
PREPARED BY

Surveyor	_____
Designer	S. HERLACHE
Project Manager	_____
Regional Examiner	_____
Regional Supervisor	M. FREWARD
C.O. Examiner	_____

APPROVED FOR THE DEPARTMENT

DATE: 1/31/13 *Randy P. Asmann*  
(Signature)

**E**



DATE 19MAR13			E S T I M A T E O F Q U A N T I T I E S		
LINE					1009-33-13
NUMBER	ITEM	ITEM DESCRIPTION	UNIT	TOTAL	QUANTITY
0010	619. 1000	MOBILIZATION	EACH	1. 000	1. 000
0020	643. 0100	TRAFFIC CONTROL (PROJECT) 01. 1009-33-13	EACH	1. 000	1. 000
0030	646. 0106	PAVEMENT MARKING EPOXY 4-INCH	LF	2, 543, 200. 000	2, 543, 200. 000
0040	646. 0126	PAVEMENT MARKING EPOXY 8-INCH	LF	28, 085. 000	28, 085. 000
0050	646. 0841. S	PAVEMENT MARKING GROOVED WET REFLECTIVE CONTRAST TAPE 4-INCH	LF	23, 120. 000	23, 120. 000
0060	646. 0843. S	PAVEMENT MARKING GROOVED WET REFLECTIVE CONTRAST TAPE 8-INCH	LF	26, 810. 000	26, 810. 000
0070	646. 0881. S	PAVEMENT MARKING GROOVED WET REFLECTIVE TAPE 4-INCH	LF	65. 000	65. 000
0080	646. 0883. S	PAVEMENT MARKING GROOVED WET REFLECTIVE TAPE 8-INCH	LF	250. 000	250. 000
0090	647. 0166	PAVEMENT MARKING ARROWS EPOXY TYPE 2	EACH	10. 000	10. 000
0100	647. 0356	PAVEMENT MARKING WORDS EPOXY	EACH	5. 000	5. 000
0110	647. 0566	PAVEMENT MARKING STOP LINE EPOXY 18-INCH	LF	815. 000	815. 000
0120	647. 0803	PAVEMENT MARKING AERIAL ENFORCEMENT BARS EPOXY 24-INCH	LF	384. 000	384. 000
0130	SPV. 0060	SPECIAL 01. PAVEMENT MARKING GROOVED PREFORMED THERMOPLASTIC ARROWS TYPE 1	EACH	2. 000	2. 000
0140	SPV. 0060	SPECIAL 02. PAVEMENT MARKING GROOVED PREFORMED THERMOPLASTIC ARROWS TYPE 3	EACH	7. 000	7. 000
0150	SPV. 0060	SPECIAL 03. PAVEMENT MARKING GROOVED PREFORMED THERMOPLASTIC ARROW TYPE 3R	EACH	3. 000	3. 000
0160	SPV. 0060	SPECIAL 04. PAVEMENT MARKING GROOVED PREFORMED THERMOPLASTIC WORDS	EACH	2. 000	2. 000
0170	SPV. 0090	SPECIAL 01. PAVEMENT MARKING GROOVED PREFORMED THERMOPLASTIC 8-INCH	LF	200. 000	200. 000
0180	SPV. 0090	SPECIAL 02. PAVEMENT MARKING GROOVED PREFORMED THERMOPLASTIC YIELD LINE 18-INCH	LF	30. 000	30. 000
0190	SPV. 0090	SPECIAL 03. PAVEMENT MARKING GROOVED WET REFLECTIVE EPOXY 4-INCH	LF	173, 885. 000	173, 885. 000
0200	SPV. 0090	SPECIAL 04. PAVEMENT MARKING GROOVED WET REFLECTIVE EPOXY 8-INCH	LF	500. 000	500. 000

PAVEMENT MARKING

			647.0803 Aerial Enforcement Epoxy 24- Inch LF	-
LOCATION	LOG MILE	Mile		REMARKS
I H 43		2.50		State Patrol Will Mark New Locations
North Bound			60	5 Sets
NB Start				NB Start 2.4 miles S. CTH MM, Extend North
South Bound			60	5 Sets
SB Start				SB Start .8 mile S CTH MM, Extend South
I H 43				State Patrol Will Mark New Locations
North Bound			60	5 Sets
NB Start				NB Start to be determined in field
South Bound			60	5 Sets
SB Start				SB Start 1.6 miles N STH 96, extend South
SUB-TOTALS			240	

PAVEMENT MARKING

			646.0106 EPOXY 4-INCH SOLID SOLID WHITE YELLOW LF LF	646.0126 EPOXY 8-INCH LF	647.0566 STOP LINE EPOXY 18-INCH LF	-
LOCATION	LOG MILE	Mile				REMARKS
STH 55		12.00				
From: Jct USH 151	0.00					Wayside
To: STH 114	11.85					South Jct STH 114 Sherwood
North Bound			57,000	54,000		Edge Line/Center Line
CTH F					100	Right Turn
Hickory Hill					25	Stock Bridge @ Hickory Hill
CTH E					30	East/West Jct CTH E
Faro Springs Rd					100	Right Turn
Ertl Rd					100	Right Turn
Jct STH 114					120	Stop Bars/ Island Gores
South Bound			57,000			Edge Line
Jct STH 55/114					425	Island Gore @ STH 55 South Bound
High Cliff					100	Right Turn
Harrison Rd					100	Right Turn
Faro Springs Rd					100	Right Turn
CTH EE					100	Right Turn
Moore Rd					100	Right Turn
SUB-TOTALS			114,000	54,000	1,345	90
TOTALS			168,000		1,345	90

PAVEMENT MARKING

			646.0106 EPOXY 4-INCH SOLID SOLID WHITE YELLOW LF LF	646.0126 EPOXY 8-INCH LF	-
LOCATION	LOG MILE	Mile			REMARKS
STH 67		7.00			
From: Keil	42.75				Begin @ Roundabout CTH AA
To: USH 151	49.90				Jct USH 151/STH 67
North Bound			36,800	23,400	Edge Line/Center Line
Jct STH 151				30	Island Gore
South Bound			37,300		Edge Line
SUB-TOTALS			74,100	23,400	30
TOTALS			97,500		30

PAVEMENT MARKING

LOCATION	LOG MILE	Mile	646. 0106 EPOXY 4-INCH			646. 0126	REMARKS
			SOLID WHITE LF	DASHED WHITE LF	SOLID YELLOW LF	EPOXY 8-INCH LF	
STH 21		8. 40					
From: OMRO	7. 00						East Jct STH 116
To: USH 41	15. 40						Emmers Lane
EAST BOUND			36, 000		22, 200		Edge Line/Center Line
Rivermoore Rd						425	Right Turn
CTH FF						320	Right Turn
Sand Pitt Rd						320	Right Turn
Leonard Pt Rd				2, 640	9, 500	100	Lane Line/Left Edgel ine/Left Turn
Creekside Rd						100	Left Turn
Honey Creek Rd						320	Left Turn Lane
Oakwood Rd						320	Left/Right Turns
Emmers La						475	Left/Right Turns
WEST BOUND			35, 535	2, 510	9, 500		Edge Line/Lane Line/Edge Line Left
Emmers La						370	Left Turn
Oakwood Rd						425	Left/Right Turns
Honey Creek Rd						100	Left Turn Lane
Creekside Rd						200	Left/Right Turns
Leonard Pt Rd						200	Left/Right Turns
Sand Pitt Rd						370	Right Turn Lane
Marquart lane						100	Right Turn Lane
CTH FF						320	Right Turn Lane
Scott Street				65			Bypass Lane
Rivermoore Rd						320	Right Turn Lane
Golden Rod Dr						150	Right Turn Lane
SUB-TOTALS			71, 535	5, 215	41, 200	4, 935	
TOTALS				117, 950		4, 935	

PAVEMENT MARKING

LOCATION	LOG MILE	MILE	646. 0106 EPOXY 4-INCH			646. 0126	647. 0566	REMARKS
			SOLID WHITE LF	SOLID YELLOW LF	DASHED YELLOW LF	EPOXY 8-INCH LF	STOP LINE EPOXY 18-INCH LF	
STH 32		12. 00						
From: IH 43	0. 00							Jct CTH LL/RR Cedar Grove
To: STH 28	11. 60							Jct STH 28 Sheb Falls
North Bound			54300	83520	2630			Edge Line/Center Line
IH 43						160		Right Turn
CTH LL						160		Left Turn
CTH A						165		Right Turn
CTH V						285		Right Turn
Pinehurst Dr						100		Right Turn
South Bound			51100					Edge Line
CTH I						110		
CTH V						325	40	Right Turn/Stop Bar
CTH W						100		
CTH 00							40	Stop Bar
CTH N							30	Stop Bar
SUBTOTAL			105, 400	83, 520	2, 630	1, 405	110	
TOTAL				191, 550				

PAVEMENT MARKING

FIRST LOCATION	LOG MILE	MILE	646. 0106 EPOXY 4-INCH			646. 0126	REMARKS
			SOLID WHITE LF	DASHED WHITE LF	SOLID YELLOW LF	EPOXY 8-INCH LF	
STH 54		8					
From: Outagamie West Co line	0. 00						New London
To: STH 76 NB	8. 10						Jct STH 76 NB @ Shiocton
East Bound			42, 100		20, 000		Edge line/Center line
County Line to End divided				700			Lane Line
County Line to End divided					2, 500		Left Edge Line
Median Island Marking					1, 700		See SDD 15c18-1 Median Island Marking
Jct STH 45						100	Right Turn
West Bound			42, 000	700			Edge line/Lane Line
CTH S						100	Left Turn
Jct STH 45						100	Left Turn
Frontage Road						100	Left Turn
SECOND LOCATION							SECOND LOCATION
STH 54		7					STH 54
From: STH 55 NB	21. 86						Seymour @ Jct STH 55 NB
To: CTH J	28. 65						Oneida @ Jct CTH J
East Bound			32, 500	300			Edge Line/Lane Line
Aurora Health Center						100	Right Turn
Ranch Road						100	Right Turn
Connector to STH 55 SB						425	Gore @ Jct STH 55 South Bound
Moore Road						100	Right Turn
Bypass Lane				65			Bypass Lane @ CTH Y
CTH H						100	Right Turn
Cooper Road						100	Right Turn
Bypass Lane				65			Red Willow Parkway
CTH J/U						100	Right Turn
West Bound			33, 500	300			Edge Line/Lane Line
Red Willow Parkway						100	Right Turn
Olson Road						100	Right Turn
Van Boxtel Rd						100	Right Turn
CTH H						100	Right Turn
CTH Y						100	Right Turn
Bypass Lane				65			STH 55 SB
Van Den Heuvel Rd						100	Right Turn
Main Line Dr						370	Right Turn
Orchard Dr						150	Right Turn
SUB-TOTALS			150, 100	2, 195	24, 200	2, 545	
TOTALS				176, 495			

PAVEMENT MARKING

LOCATION	LOG MILE	Mile	SPV. 0060. 01 Grooved Preformed Thermoplastic Arrows Type 1 Each	SPV. 0060. 02 Grooved Preformed Thermoplastic Arrows Type 3 Each	SPV. 0060. 03 Grooved Preformed Thermoplastic Arrows Type 3R Each	SPV. 0060. 04 Grooved Preformed Thermoplastic Words Each	SPV. 0090. 01 Grooved Preformed Thermoplastic 8 Inch L. F.	SPV. 0090. 02 Grooved Preformed Thermoplastic Yield Line 18 Inch L. F.	646. 0881. S Grooved Wet Reflective Tape 4 Inch L. F.	646. 0883. S Grooved Wet Reflective Tape 8 Inch L. F.	REMARKS
RAB Jct STH 32/57/67	32. 00	0. 50									Kiel Roundabout Jct STH 32/57/67
RAB Quantities			2	7	3	2	200	30	65	250	2 Words (Yield)
TOTAL			2	7	3	2	200	30	65	250	

PAVEMENT MARKING

LOCATION	LOG MILE	Mi l e	646. 0106 EPOXY 4-INCH			647. 0566	REMARKS
			SOLI D WHI TE LF	DASHED WHI TE LF	SOLI D YELLOW LF	STOP LI NE EPOXY 18-INCH LF	
STH 76		12 mi					
From: STH 54	30. 20						W Jct STH 54 Shiocton
To: Outagamie/Waupaca Co Li ne	42. 45						Bear Creek
North Bound			61, 000		38, 000		Edge Li ne/Center Li ne
Knoke Road				40			
Hickory Road				65			Dashed Edge Li ne
South Bound			60, 150				Edge Li ne
CTH W				50			Dashed Edge Li ne
Jct STH 54						30	Stop Bar @ Jct STH 54
SUB-TOTALS			121, 150	155	38, 000	30	
TOTALS				159, 305		30	

PAVEMENT MARKING

LOCATION	LOG MILE	Mi l e	646. 0106 EPOXY 4-INCH			646. 0126	647. 0166	647. 0356	647. 0566	REMARKS
			SOLI D WHI TE LF	DASHED WHI TE LF	SOLI D YELLOW LF	EPOXY 8-INCH LF	Arrows Epoxy Type 2 Each	Words Epoxy ONLY Each	STOP LI NE EPOXY 18-INCH LF	
STH 76		4. 74								
From: South Jct CTH S	25. 53									
To: STH 54	30. 27									Jct STH 54 Shiocton
North Bound			21, 120		23, 000					EdgeLi ne/Centerline
N Jct CTH S						165			35	Right Turn/Gore/Stop Bars On CTH S
Jct STH 54						100	2	1	35	Right Turn/Arrow/Onl y/Stop Bar
South Bound			21, 050							EdgeLi ne
Jct CTH A				65						Bypass Lane
N Jct CTH S				65						Bypass Lane
SUB-TOTALS			42, 170	130	23, 000	265	2	1	70	
TOTALS				65, 300		265	2	1	70	

PAVEMENT MARKING

LOCATION	LOG MILE	Mi l e	646. 0106 EPOXY 4-INCH			646. 0126	647. 0566	REMARKS
			SOLI D WHI TE LF	DASHED WHI TE LF	SOLI D YELLOW LF	EPOXY 8-INCH LF	STOP LI NE EPOXY 18-INCH LF	
STH 180		16. 00						
From: CTH X	14. 50							Jct CTH X
To: USH 141	30. 42							Wausaukee
North Bound			82, 000		92, 150			Edge Li ne/Center Li ne
CTH JJ						260		North/South Jct Right Turn
USH 141							30	Jct USH 141/STH 180
South Bound			82, 760					Edge Li ne
Mud Lake						100		Right Turn
CTH JJ				65				Bypass Lane
SUB-TOTALS			164, 760	65	92, 150	360	30	
TOTALS				256, 975		360	30	

PAVEMENT MARKING

LOCATION	LOG MILE	Mile	646.0106 EPOXY 4-INCH			646.0126	-
			SOLID WHITE LF	DASHED WHITE LF	SOLID YELLOW LF	EPOXY 8-INCH LF	
STH 310		7.00					REMARKS
From: IH 43 West Ramps	0.25						Jct IH 43 West Ramps
To: Two Rivers	7.45						Columbus St
East Bound			36,500	500	28,100		Edge Line/Center Line/Lane Line
Round-About/Divided					4,800		Round-About/Divided Section
IH 43 North Bound						100	Right Turn
Wagon Wheel Rd						100	Right Turn
West Bound			36,500	600			Edge Line/Lane Line
Round-About/Divided					4,225		Round-About/Divided Section
Browns Rd				65			Bypass Lane
Woodl and Dr						200	Right Turn
Wagon Wheel Rd						100	Right Turn
Begin Divided Section				600			Lane Line/Divided Section
IH 43 North Bound						100	Right Turn
IH 43 South Bound						100	Left Turn
SUB-TOTALS			73,000	1,765	37,125	700	
TOTAL				111,890		700	

PAVEMENT MARKING

LOCATION	LOG MILE	Mile	646.0106 EPOXY 4-INCH			646.0126	647.0566	647.0803	-
			SOLID WHITE LF	DASHED WHITE LF	SOLID YELLOW LF	EPOXY 8-INCH LF	EPOXY 18-INCH STOP BAR LF	Aerial Enforcement Epoxy 24-Inch LF	
USH 41		10.00							REMARKS
From: CTH J	61.80								North Ramps
To: CTH F/Schuering Rd	71.80								Start/End Construction
North Bound			43,950	12,500	50,800				Edge Lines/Lane Line Begin @ End Tape
Weigh Station				45		425			Exit Gore/Exit Dash
Weigh Station						635			Entry Gore
CTH U			1,520	45	885	740	30		Exit Gore/Dash/Ramp Edge Lines/Stop Bar
CTH U			2,360		890	1,700			Entry Gore/Ramp Edge Lines
CTH S			1,600	45	1,125	730	40		Exit Gore/Dash/Ramp Edge Lines/Stop Bar
CTH S			2,210		800	1,800			Entry Gore/Ramp Edge Lines
North Bound Enforcement Bars									North Bound Enforcement Bars
CTH JJ								60	5 Sets
CTH S								24	2 Sets
South Bound			46,550	12,500	50,600				Edge Lines/Lane Line End @ Begin Tape
CTH S			1,700	45	1,140	850	40		Exit Gore/Dash/Ramp Edge Lines/Stop Bar
CTH S			2,130		775	1,375			Entry Gore/Ramp Edge Lines
CTH U			1,300	45	920	635	45		Exit Gore/Dash/Ramp Edge Lines/Stop Bar
CTH U			2,500		965	1,735			Entry Gore/Ramp Edge Lines
South Bound Enforcement Bars									South Bound Enforcement Bars
CTH U								60	5 Sets
SUB-TOTALS			105,820	25,225	108,900	10,625	155	144	
TOTAL				239,945		10,625	155		



PAVEMENT MARKING

LOCATION	LOG MILE	Mile	646. 0106 EPOXY 4-INCH			646. 0126	647. 0166	647. 0566	REMARKS
			SOLID WHITE LF	DASHED WHITE LF	SOLID YELLOW LF	EPOXY 8-INCH LF	Arrows Epoxy Type 2 Each	STOP LINE EPOXY 18-INCH LF	
USH 141		3. 00							
From: IH 43 South Ramps	0. 00								CTH MM
To: IH 43 Overpass	3. 15								Fleet Farm @ IH 43 Overpass
North Bound			13, 100		23, 575				Edge Line/ Center Line
IH 43 North Bound									Left Turn IH 43 South Bound
STH 29 South Jct						125		45	Right Turn/Stop Bars on CTH MM
STH 29 North Jct						200		35	Right Turn/Stop Bars on STH 29
Glenmore Rd						100			Right Turn
Santa Monica				75					Bypass Lane
Klondike Rd						100			Right Turn
Continental Drive						200	1		Left/Right Turns/Arrow
South Bound			13, 100						Edge Line
Continental Drive						320	3		Left/Right Turns/Arrows
Bel Meadow Dr						100			Right Turn
Santa Monica						200			Right Turn
Apple Ridge						100			Right Turn
Glenmore Rd						100			Right Turn
STH 29 North Jct				150					Bypass
IH 43/CTH MM						100			Right Turn
IH 43 North Bound						230			Right Turn IH 43 North Bound
IH 43 South Bound						100			Left Turn IH 43 South Bound
SUB-TOTALS			26, 200	225	23, 575	1, 975	4	80	
				50, 000		1, 975	4	80	

PAVEMENT MARKING

LOCATION	LOG MILE	Mile	646. 0106 EPOXY 4-INCH			646. 0126	REMARKS
			SOLID WHITE LF	DASHED WHITE LF	SOLID YELLOW LF	EPOXY 8-INCH LF	
USH 151		11. 00					
From: Chilton	47. 50						Opportunity Dr @ Pvm t change
To: Valders	58. 60						CTH A
North Bound			55, 100		52, 000		Edge Line /Center Line
Church Rd						100	Right Turn
STH 67						100	Right Turn
CTH W				50			Bypass Lane
CTH A							Right Turn
South Bound			55, 000				Edge Line
CTH W						200	Right Turn
STH 67				75			Bypass Lane
Lemke Rd						100	Right Turn
SUB-TOTALS			110, 100	125	52, 000	500	
TOTALS				162, 225		500	

PAVEMENT MARKING

LOCATION	LOG MILE	MILE	646. 0106 EPOXY 4-INCH			646. 0126 EPOXY 8-INCH LF	647. 0166 ARROWS EPOXY TYPE 2 EACH	647. 0356 WORDS EPOXY ONLY EACH	647. 0566 STOP LINE EPOXY 18-INCH LF	REMARKS
			SOLID WHITE LF	DASHED WHITE LF	SOLID YELLOW LF					
USH 151		9. 00								
From: CTH WH	24. 60									1/4 Mi N. of CTH WH @ Pvmt Change
To: Calumetville	33. 65									Fond du Lac/Calumet County Line
North Bound			46, 675		31, 500					Edge Line/Center Line
Kiekhaefer Pkwy						150				Right Turn
Deadwood Rd						100				Right Turn
Silica Rd						150				Right Turn
CTH Q						150				Right Turn
Gladstone Beach Rd				65						Bypass Lane
Fisherman's Rd				65						Bypass Lane
Johnsburg Rd						150				Right Turn
CTH W						100	1	1	35	Left Turn/Arrow/Only/Stop Bar
CTH HH						100				Right Turn
CTH HHH						100	1	1	30	Left Turn/Arrow/Only/Stop Bar
South Bound			47, 000							Edge Line
CTH HHH						100	1	1	30	Left Turn/Arrow/Only/Stop Bar
CTH W						100	1	1	35	Left Turn/Arrow/Only/Stop Bar
Silica Rd				65						Bypass Lane
Minawa Beach Rd						150				Right Turn
Deadwood Rd						150				Right Turn
Kiekhaefer Pkwy				65						Bypass Lane
SUBTOTAL			93, 675	260	31, 500	1, 500	4	4	130	
TOTAL				125, 435		1, 500	4	4	130	

PAVEMENT MARKING

LOCATION	LOG MILE	Mile	646. 0106 EPOXY 4-INCH		646. 0126 EPOXY 8-INCH LF	REMARKS
			SOLID WHITE LF	SOLID YELLOW LF		
STH 147		13. 00				
From: CTH V V	2. 00					Two Rivers
To: West Ramps IH 43	15. 00					West Ramps IH 43
North Bound			59, 200	77, 000		Edge Lines/Center Line
Jct IH 43					100	IH 43 South Bound Left Turn Bay
South Bound			59, 450			Edge Line
Begin Divided						Upgrade Median Island Marking
Jct IH 43					100	IH 43 North Bound Left Turn Bay
SUB-TOTALS			118, 650	77, 000	200	
TOTALS				195, 650		

PAVEMENT MARKING SUMMARY

LOCATION	LOG MILE	MILE	646. 0841. S Grooved Wet Reflective Contrast Tape 4-Inch L. F.	646. 0843. S Grooved Wet Reflective Contrast Tape 8-Inch L. F.	REMARKS
USH 10		7			
From: STH 76	12. 75				Jct STH 76 (First Turn around West of Jct)
To: USH 10	20. 00				USH 10 East Bound/ Jct STH 441 North Bound
East Bound			11, 000		Lane Line
STH 76			35	845	Exit Dash/Exit Gore
STH 76				1, 690	Entry Gore
CTH CB			35	750	Exit Dash/Exit Gore
CTH CB			320	1, 375	Entry Gore/Ramp Lane Line
CTH CB to USH 41 SB				375	Lane Line from CTH CB on Ramp to USH 41 SB
Exit USH 41 SB				740	Exit Gore
Entry USH 41 SB				740	Entry Gore
Entry USH 41 NB				740	Entry Gore
CTH P			90		Exit Dash
CTH P				1, 585	Entry Gore
CTH AP			175		Exit Dash
CTH AP				1, 900	Entry Gore
STH 47			35		Exit Dash
STH 47				1, 480	Entry Gore
USH 10 East Bound			35		Exit Dash
USH 10 West Bound				1, 690	Entry Gore
West Bound			11, 000		Lane Line
USH 10 West Bound				1, 375	Entry Gore
STH 47			35		Exit Dash
STH 47				1, 375	Entry Gore
CTH AP			95		Exit Dash
CTH AP				1, 690	Entry Gore
CTH P			35		Exit Dash
CTH P				1, 375	Entry Gore
USH 41 North Bound			115	530	Exit Dash/Exit Gore
USH 41 South Bound			45	530	Exit Dash/Exit Gore
USH 41 South Bound				1, 375	Entry Gore
CTH CB			35	740	Exit Dash/Exit Gore
CTH CB				1, 690	Entry Gore
STH 76			35	740	Exit Dash/Exit Gore
STH 76				1, 480	Entry Gore
TOTAL			23, 120	26, 810	

PAVEMENT MARKING

LOCATION	LOG MILE	Mile	646.0106 EPOXY 4-INCH		646.0126 EPOXY 8-INCH	647.0566 STOP LINE EPOXY 18-INCH	REMARKS
			SOLID WHITE LF	SOLID YELLOW LF	LF	LF	
USH 45		15.00					
From: FDL SCL	0.00						FDL/Washington County Line
To: Eden	14.70						Begin curb/gutter
North Bound			74,000	82,650			Edge Line/Center Line
STH 67					130		Right Turn Bay
STH 67						60	Stop Bars @ 67
South Bound			74,500				Edge Line
STH 67					200		Right Turn Bay
STH 67						60	Stop Bars @ Jct 67
SUB-TOTALS			148,500	82,650	330	120	
			231,150		330	120	

PAVEMENT MARKING

LOCATION	LOG MILE	Mile	646.0106 EPOXY 4-INCH			646.0126 EPOXY 8-INCH	REMARKS
			SOLID WHITE LF	DASHED WHITE LF	SOLID YELLOW LF	LF	
USH 151		11.00					
From: Calumet/FDL Co Line	33.65						Calumet South County Line
To: Chilton	45.00						Quinney Rd @ Pavement Change
North Bound			59,500		75,000		Edge Line/Center Line
Jefferson Rd						100	Right Turn
CTH C						100	Right Turn
E Harlow Rd				20			Mini Dash Edge Line
South Bound			59,300				Edge Line
CTH C						100	Right Turn
Wayside				10		125	Stop Bar/Gore/Dash
Jct STH 55						745	Stop Bars/Gores @ North/South Jct
Jefferson Rd						100	Right Turn
Harbor Rd						100	Right Turn
SUB-TOTALS			118,800	30	75,000	1,370	
			193,830			1,370	

PAVEMENT MARKING SUMMARY

			SPV. 0090. 03 Grooved Wet Reflective EPOXY 4-INCH			SPV. 0090. 04	-
			SOLID WHI TE LF	DASHED WHI TE LF	SOLID YELLOW LF	Grooved Wet Reflective EPOXY 8-INCH SOLID WHI TE LF	-
LOCATION	LOG MI LE	MI LE					REMARKS
USH 45		11. 0					
From: Subway Rd	27. 60						Begin @ Subway Rd
To: Waukau Ave	38. 90						End Curb/Gutter @ Waukau Ave
North Bound			57, 235		58, 865		Edge line/Centerline
Bypass Lane				125			CTH R to Fisk Ave
South Bound			57, 660				Edge line
Jacob Ave						100	Rt Turn
E Elm Ave						100	Rt Turn
Fisk Ave						100	Rt Turn
CTH R						100	Rt Turn
E Lone Elm Ave						100	Rt Turn
SUBTOTAL			114, 895	125	58, 865	500	
TOTAL				173, 885			

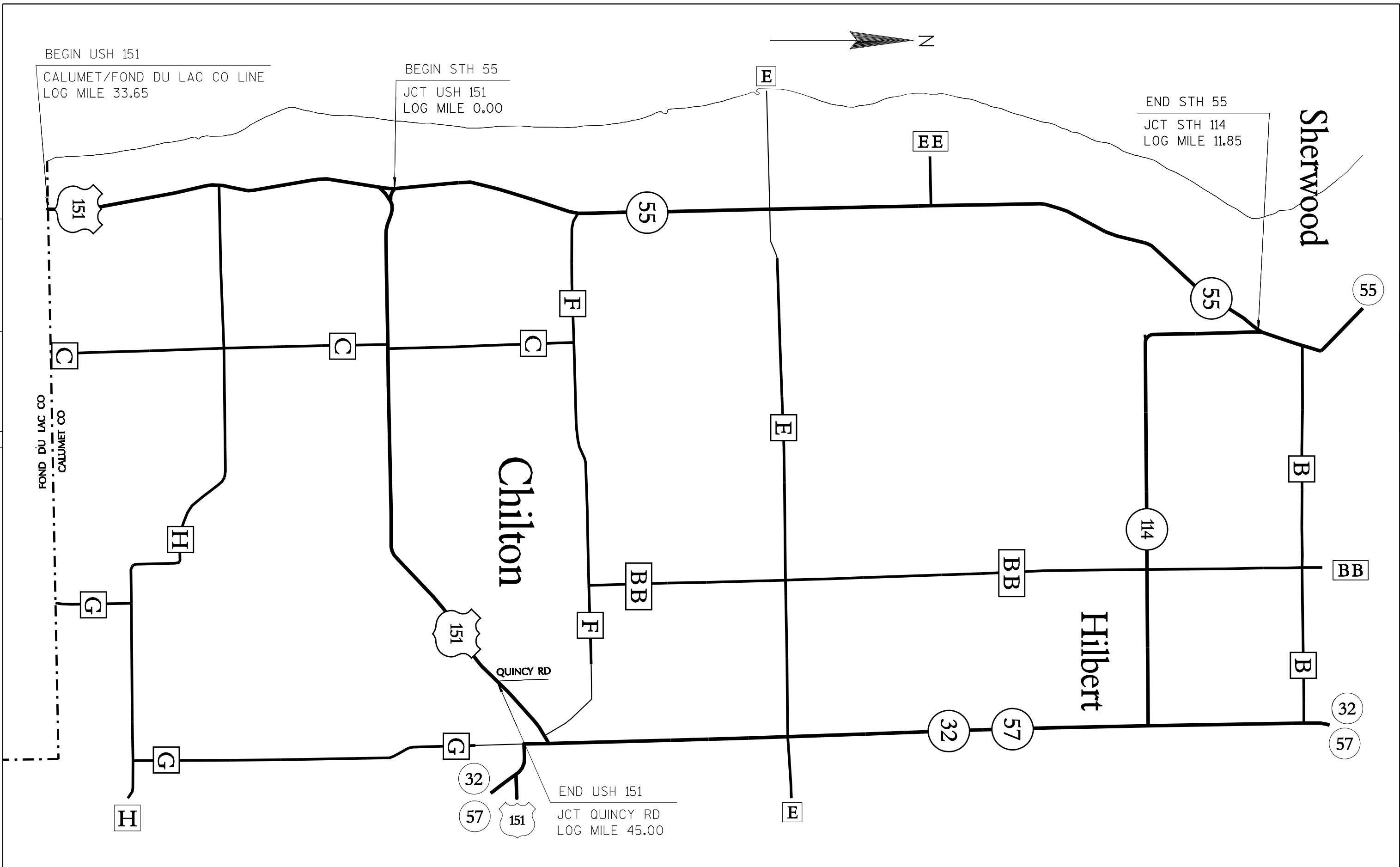
PAVEMENT MARKING SUMMARY

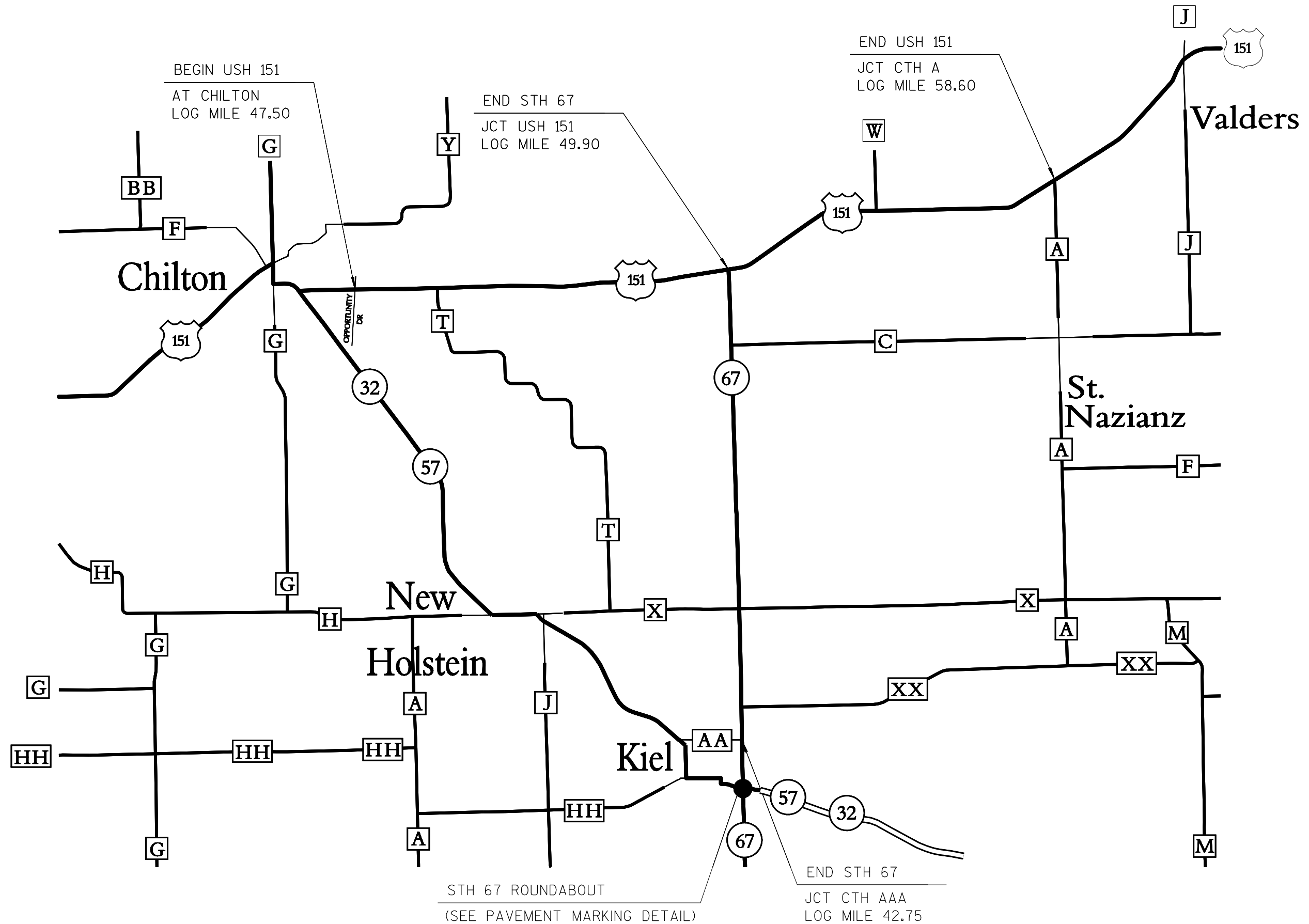
PROJECT TOTALS	646. 0106 EPOXY 4-INCH				646. 0126 EPOXY 8-INCH	646. 0841. S Grooved Wet Reflective Contrast Tape 4-INCH	646. 0843. S Grooved Wet Reflective Contrast Tape 8-INCH	647. 0166 ARROWS EPOXY TYPE 2 EACH	647. 0356 WORDS EPOXY EACH	647. 0566 STOP LINE EPOXY 18-INCH LF	647. 0803 Aerial Enforcement Epoxy 24-Inch L. F.	SPV. 0090. 03 Grooved Wet Reflective Epoxy 4-Inch L. F.	SPV. 0090. 04 Grooved Wet Reflective Epoxy 8-Inch L. F.
	SOLID	DASHED	SOLID	DASHED									
	WHI TE	WHI TE	YELLOW	YELLOW									
	L. F.	L. F.	L. F.	L. F.	L. F.	L. F.	L. F.	EACH	EACH	LF	L. F.	L. F.	L. F.
	2, 543, 200				28, 085	23, 120	26, 810	10	5	815	384	173, 885	500

SPV. 0060. 01 Grooved Preformed Thermoplastic Arrows Type 1 Each	SPV. 0060. 02 Grooved Preformed Thermoplastic Arrows Type 3 Each	SPV. 0060. 03 Grooved Preformed Thermoplastic Arrows Type 3R Each	SPV. 0060. 04 Grooved Preformed Thermoplastic Words Each	SPV. 0090. 01 Grooved Preformed Thermoplastic 8 Inch L. F.	SPV. 0090. 02 Grooved Preformed Thermoplastic Yield Line 18 Inch L. F.	646. 0881. S Grooved Wet Reflective Tape 4 Inch L. F.	646. 0883. S Grooved Wet Reflective Tape 8 Inch L. F.
2	7	3	2	200	30	65	250

PROJECT TOTALS

STATE PROJECT NO: 1009-33-13	HWY: VARIOUS	COUNTY: VARIOUS	MISCELLANEOUS QUANTITIES	SHEET NO:	E
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END STH 147  
JCT I 43  
LOG MILE 15.00

Maribel

T

Z

T

K

K

R

Y

Q

B

V

B

V

BEGIN STH 147  
JCT CTH VV  
LOG MILE 2.00

Francis  
Creek

V

V

T

R

Q

B

VV

VV

147

310

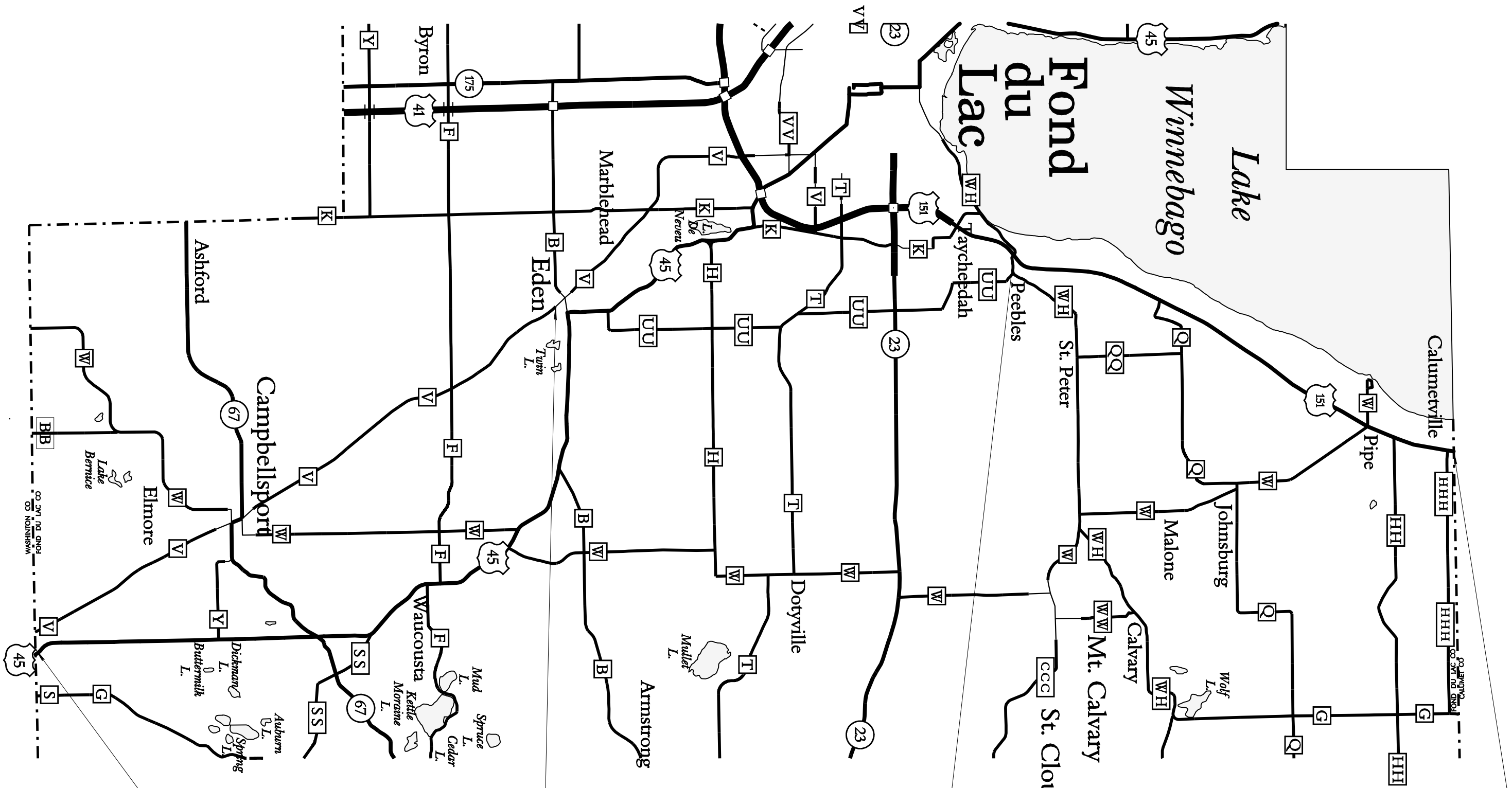
43

10

R

310

310



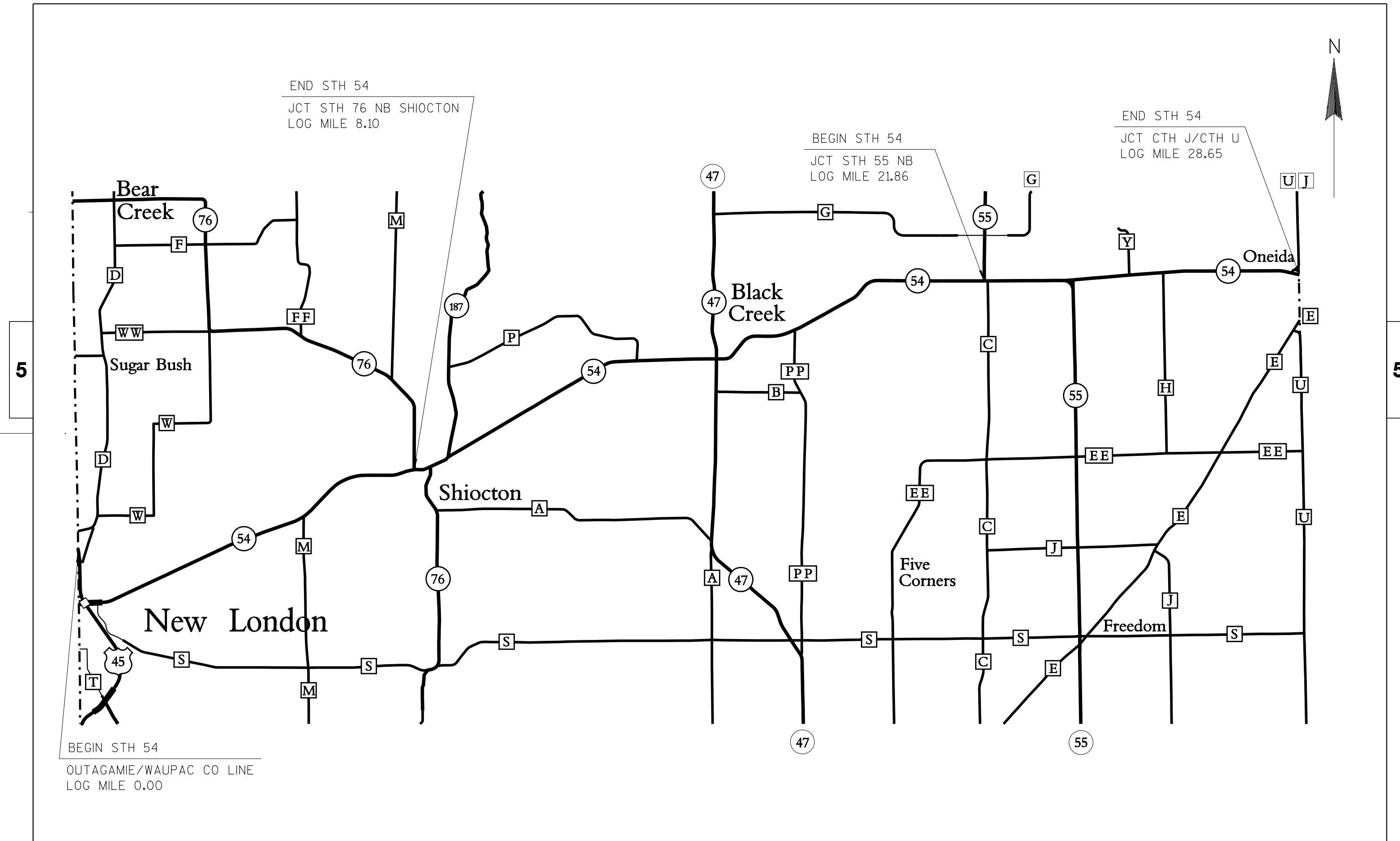
BEGIN USH 45  
WASHINGTON/FOND DU LAC CO LINE  
LOG MILE 0.00

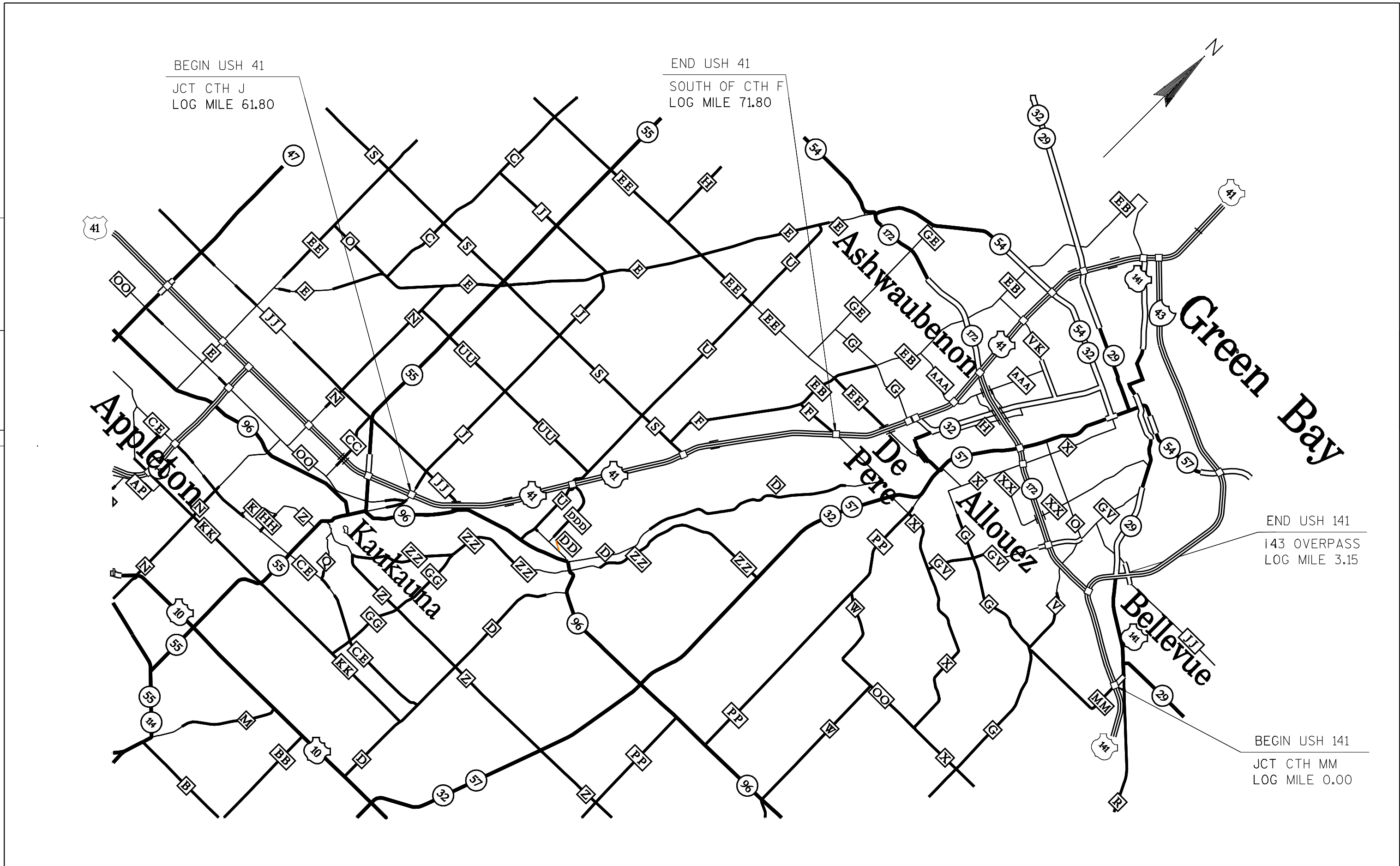
END USH 45  
EDÉN  
LOG MILE 14.70

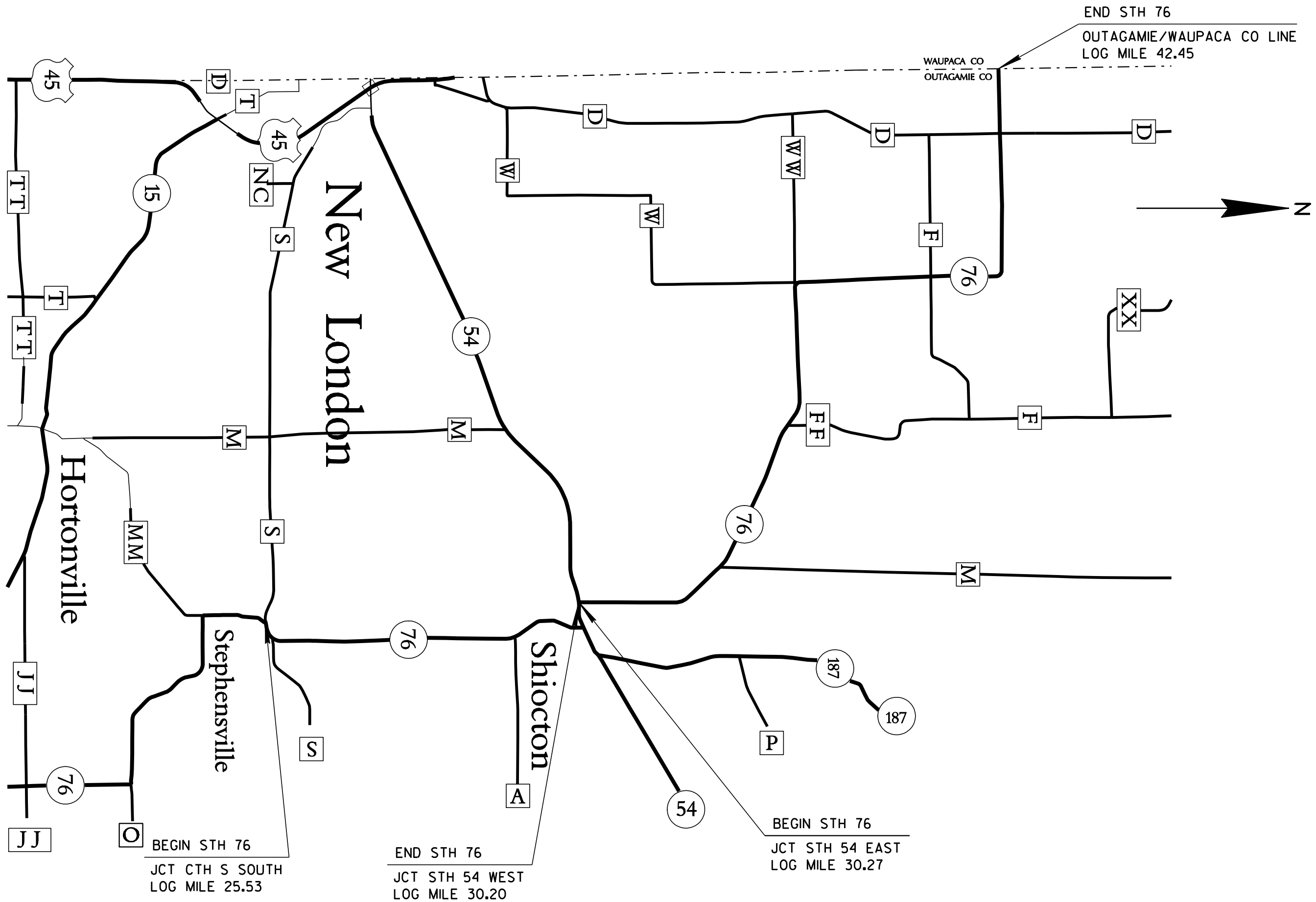
BEGIN USH 151  
JCT CTH WH  
LOG MILE 26.60

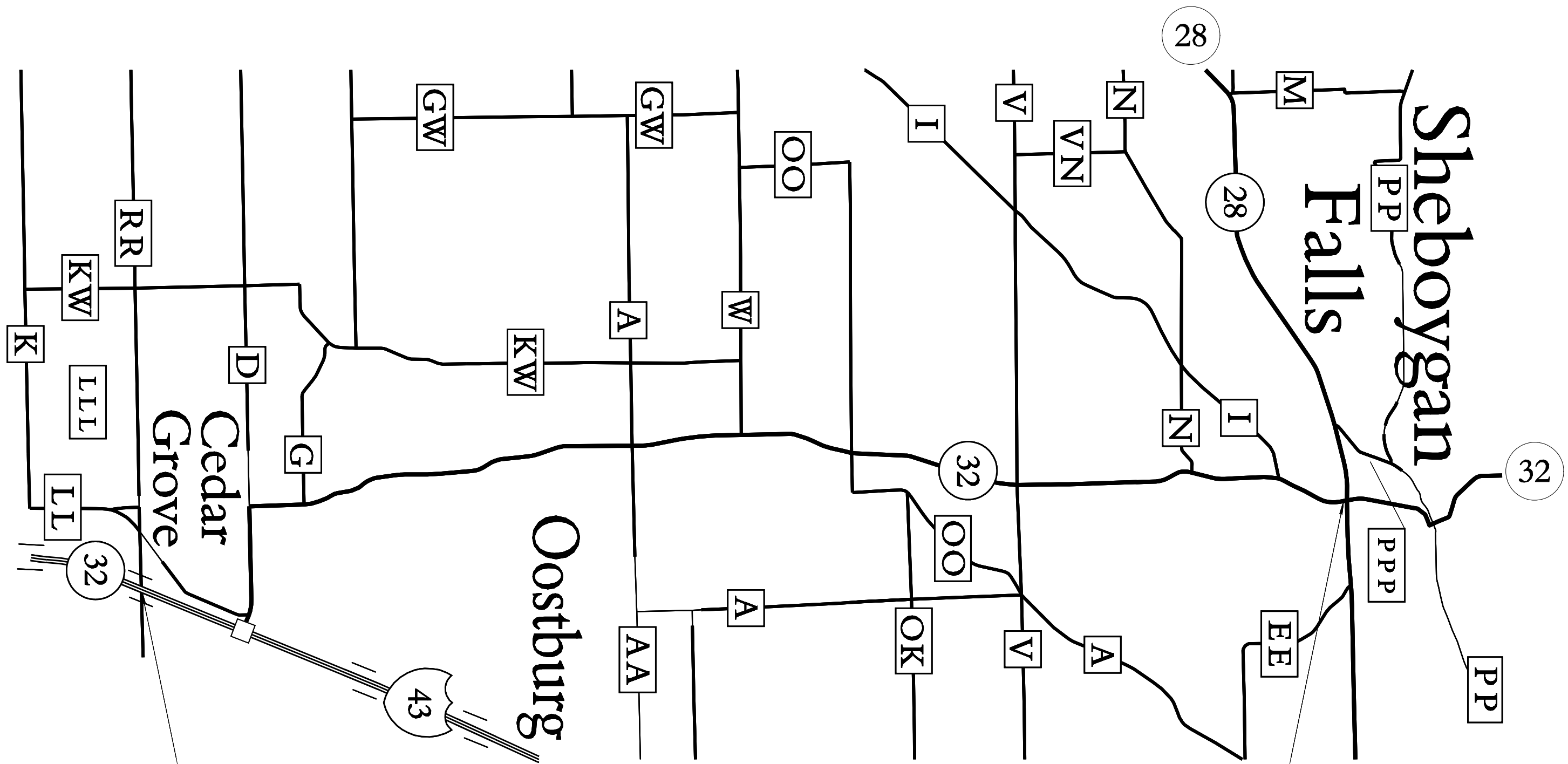
END USH 151  
CALUMET/FOND DU LAC CO LINE  
33.63 LOG MILE









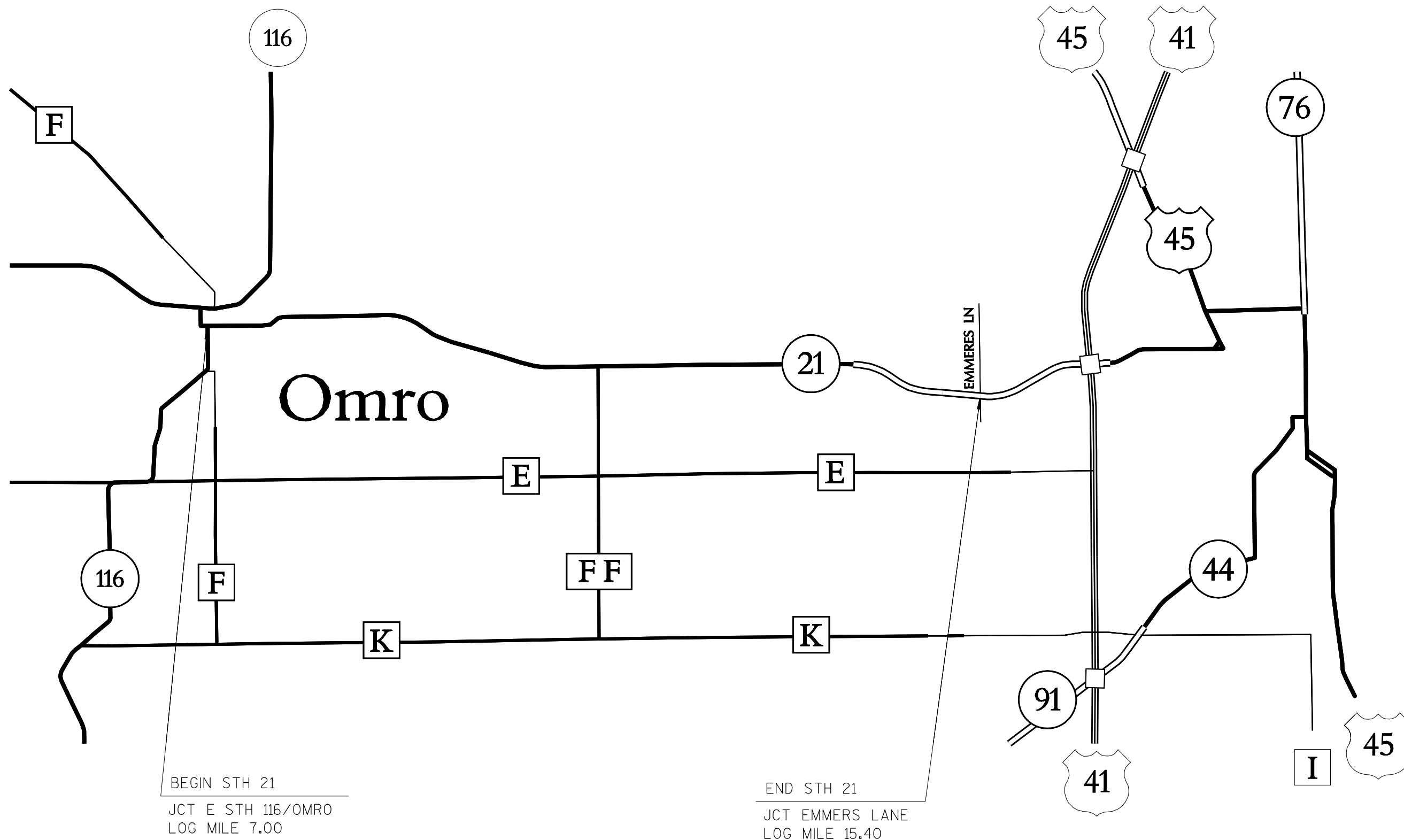


BEGIN STH 32  
JCT CTH LL/CTH RR  
LOG MILE 0.00

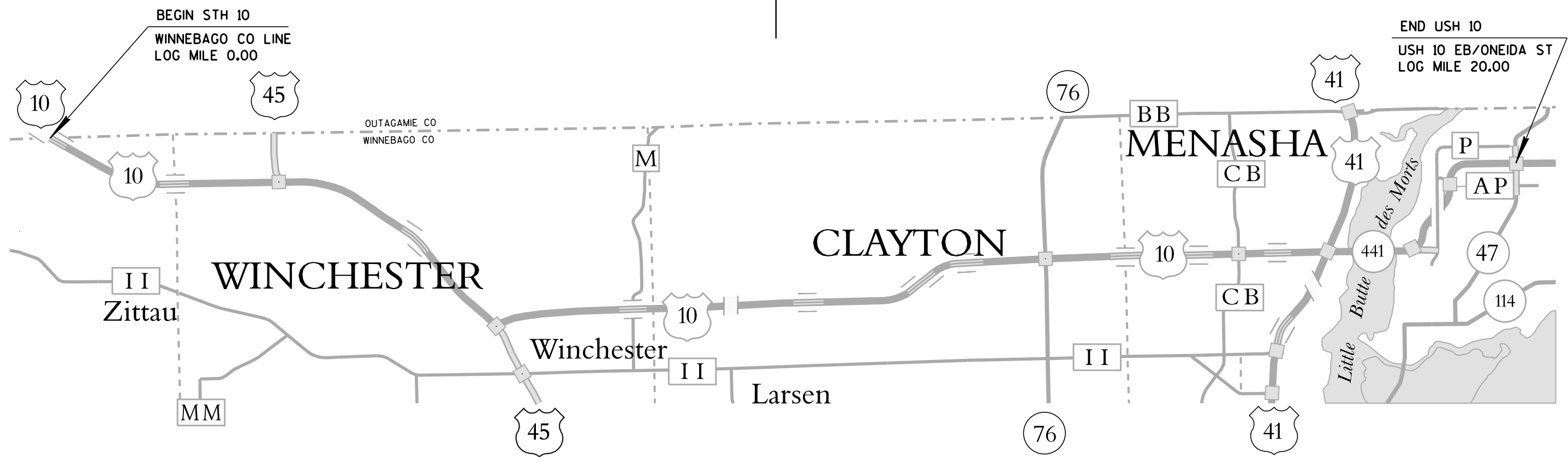
END STH 32  
JCT STH 28  
LOG MILE 11.60

5

5





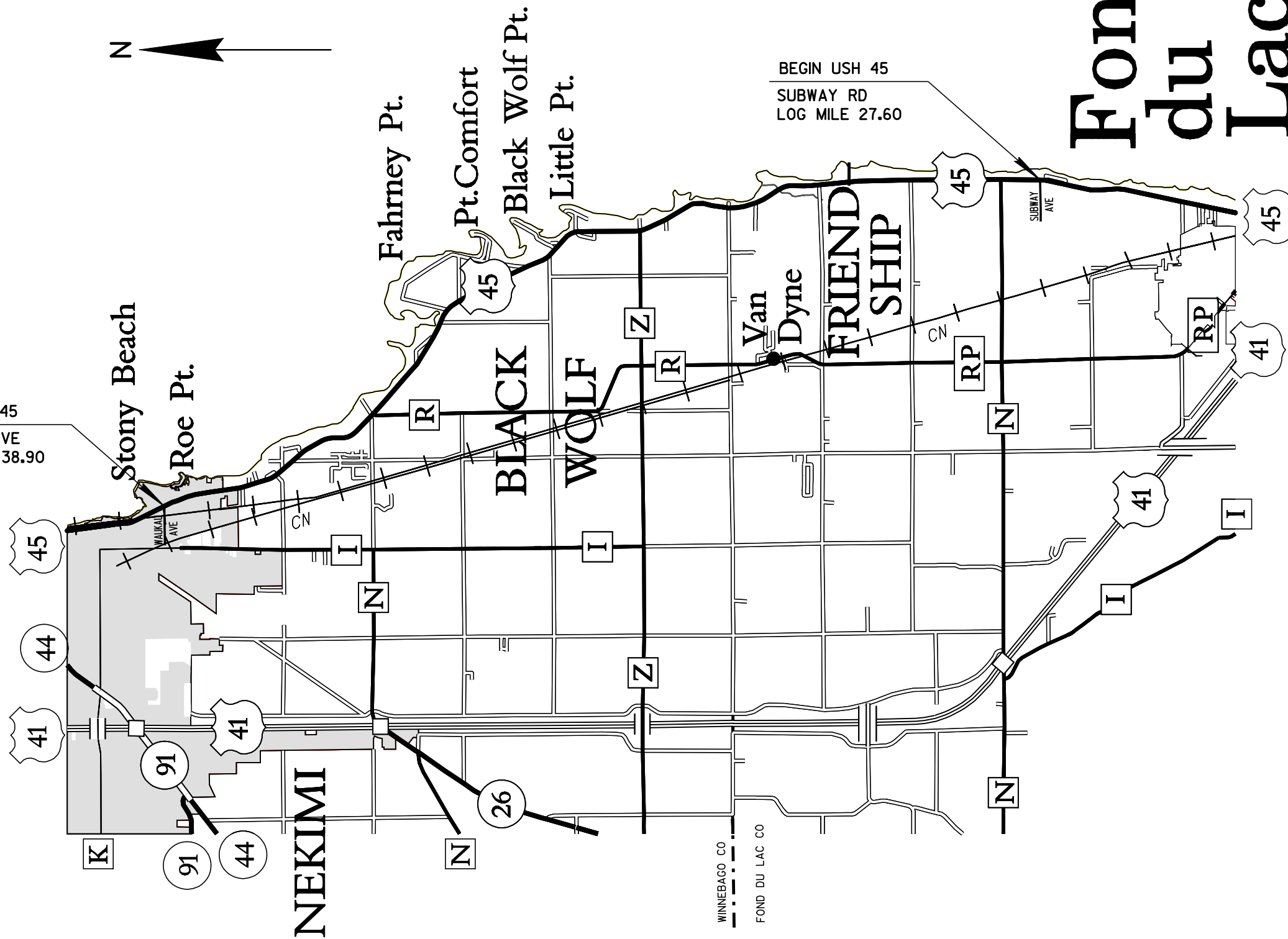




# Fond du Lac

END USH 45  
WAUKAU AVE  
LOG MILE 38.90

BEGIN USH 45  
SUBWAY RD  
LOG MILE 27.60



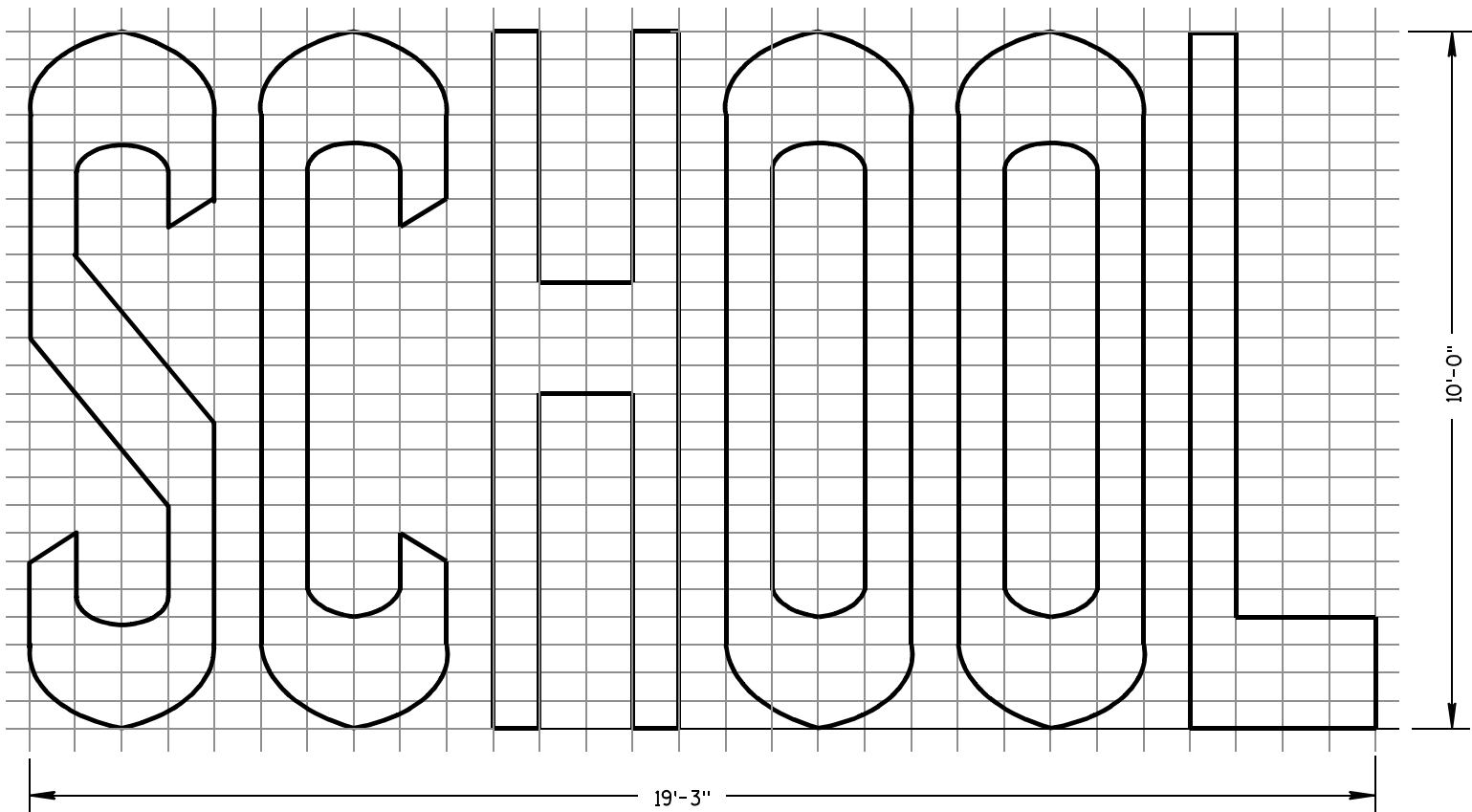
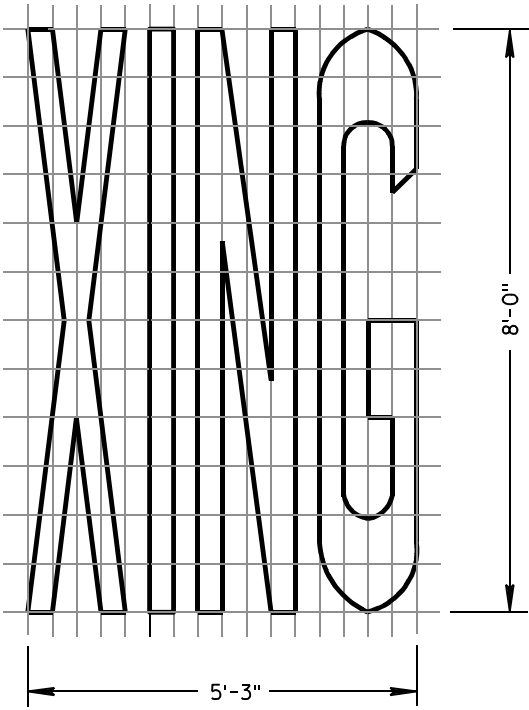
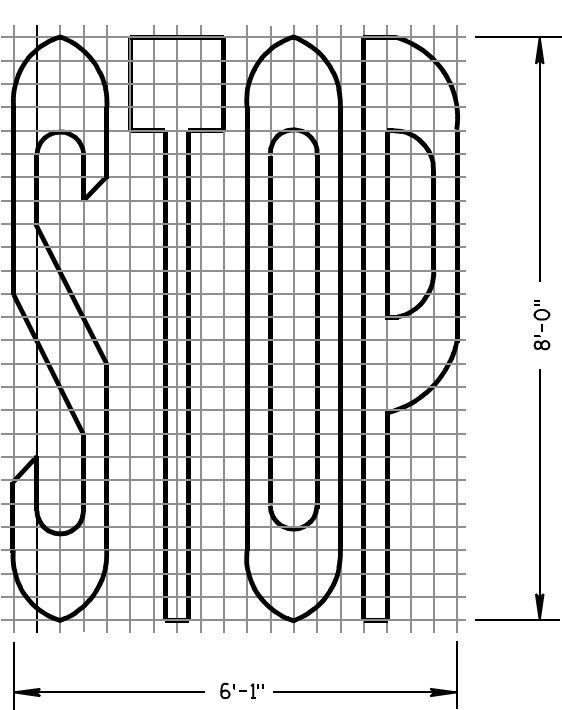
Standard Detail Drawing List

15C07-12B	PAVEMENT MARKING WORDS
15C07-12C	PAVEMENT MARKING ARROWS
15C07-12D	ROUNDBOUT ARROWS
15C08-15A	PAVEMENT MARKING (MAINLINE)
15C08-15B	PAVEMENT MARKING (INTERSECTIONS)
15C08-15F	PAVEMENT MARKING (ISLANDS, STOP LINE & CROSS WALK)
15C12-03	TRAFFIC CONTROL FOR LANE CLOSURE (SUITABLE FOR MOVING OPERATIONS)
15C14-01	AERIAL ENFORCEMENT BARS PAVEMENT MARKING DETAILS
15C18-03	MEDIAN ISLAND MARKING
15C19-01A	MOVING PAVEMENT MARKING OPERATION TWO-LANE TWO-WAY ROADWAY
15C19-01C	MOVING PAVEMENT MARKING OPERATION MULTI-LANE DIVIDED ROADWAY
15C31-01A	PAVEMENT MARKING (RAMPS AND GORES)
15D12-02	TRAFFIC CONTROL, LANE CLOSURE, SPEEDS GREATER THAN 40 M. P. H.

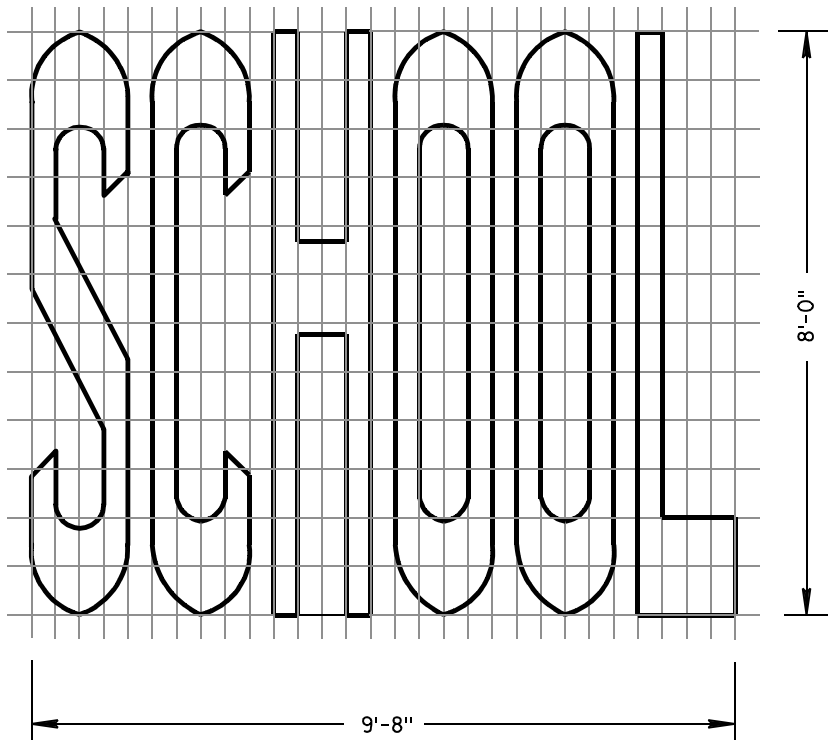
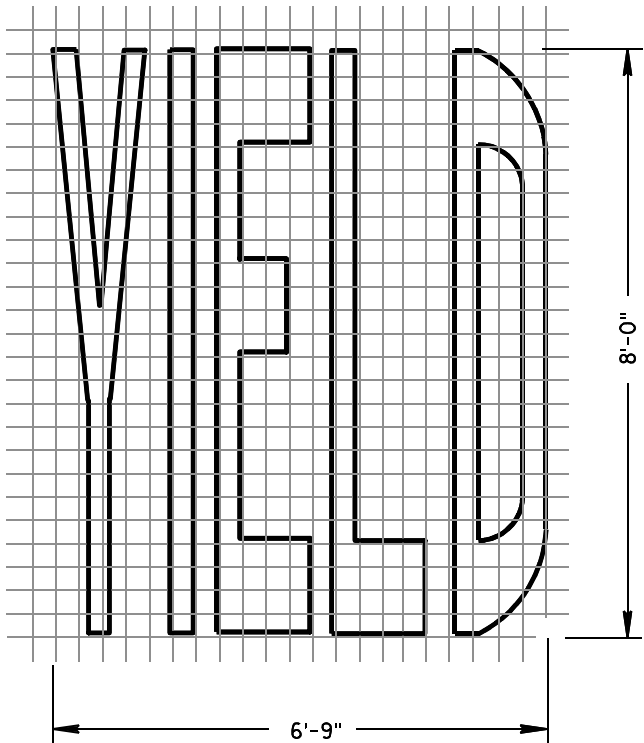
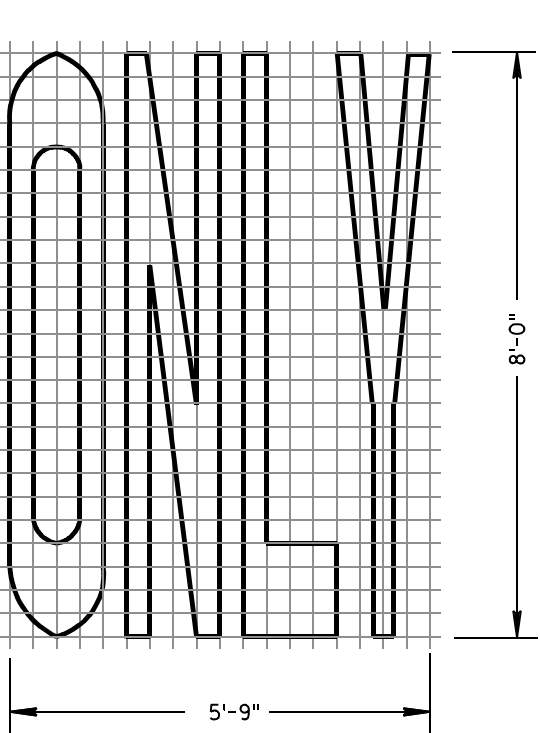
GENERAL NOTES

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.

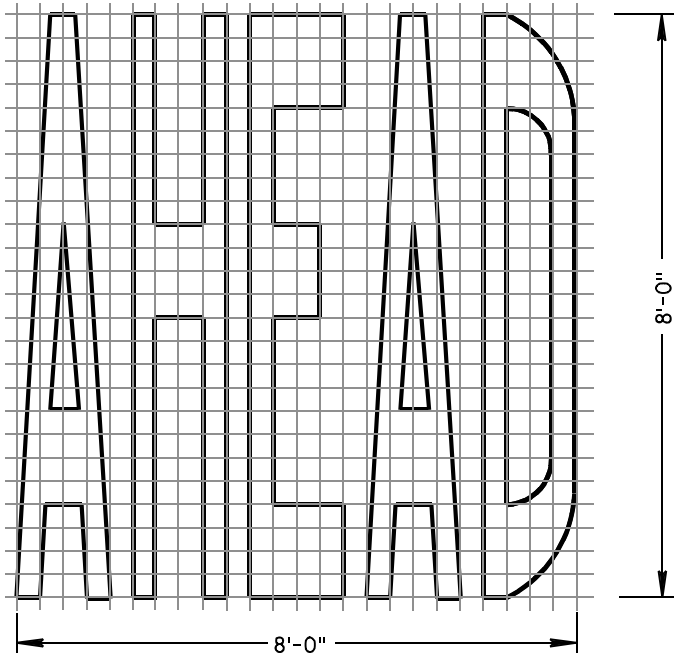
ALL LETTERS, ARROWS AND SYMBOLS SHALL BE IN CONFORMANCE WITH REQUIREMENTS INCLUDED IN "STANDARD ALPHABETS FOR HIGHWAY SIGNS AND PAVEMENT MARKING" BOOK BY THE FEDERAL HIGHWAY ADMINISTRATION. ALL LETTERS, ARROWS AND SYMBOLS SHALL BE WHITE AND REFLECTORIZED. SMALL DIFFERENCES IN DIMENSIONS WITHIN THE TOLERANCES OF THAT BOOK ARE ACCEPTABLE.



TWO-LANE



SINGLE-LANE



PAVEMENT MARKING WORDS

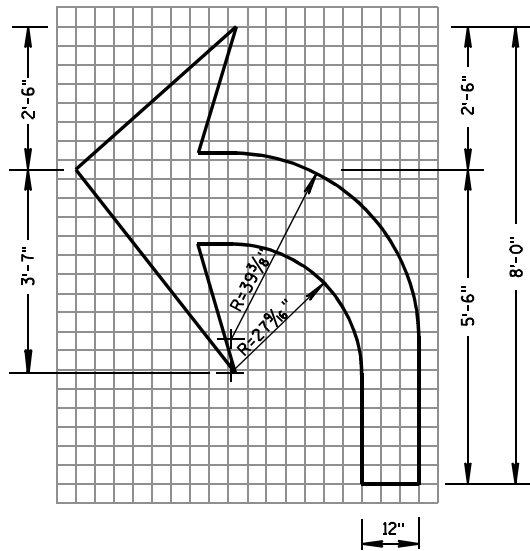
STATE OF WISCONSIN  
DEPARTMENT OF TRANSPORTATION

APPROVED

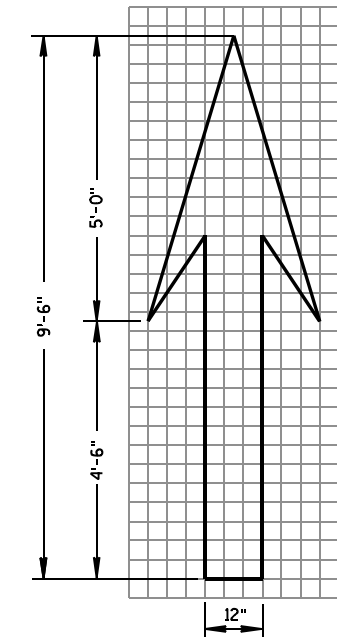
7-1-11  
DATE

/S/ Thomas N. Notbohm  
STATE TRAFFIC ENGINEER OF DESIGN

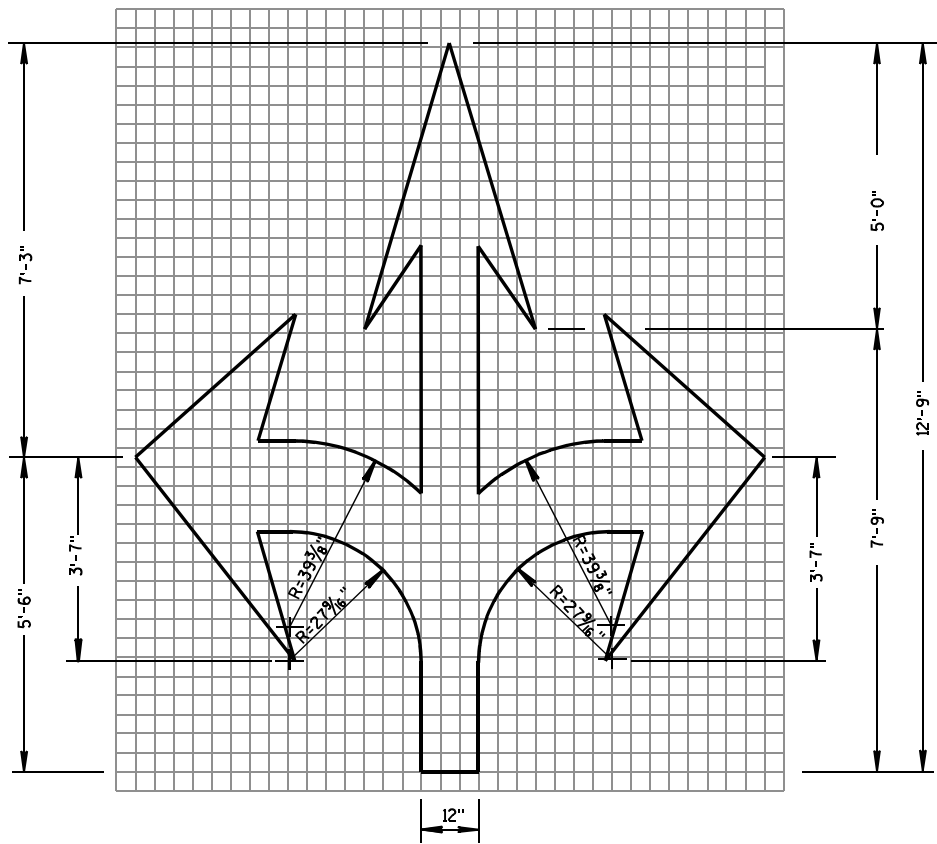
FHWA



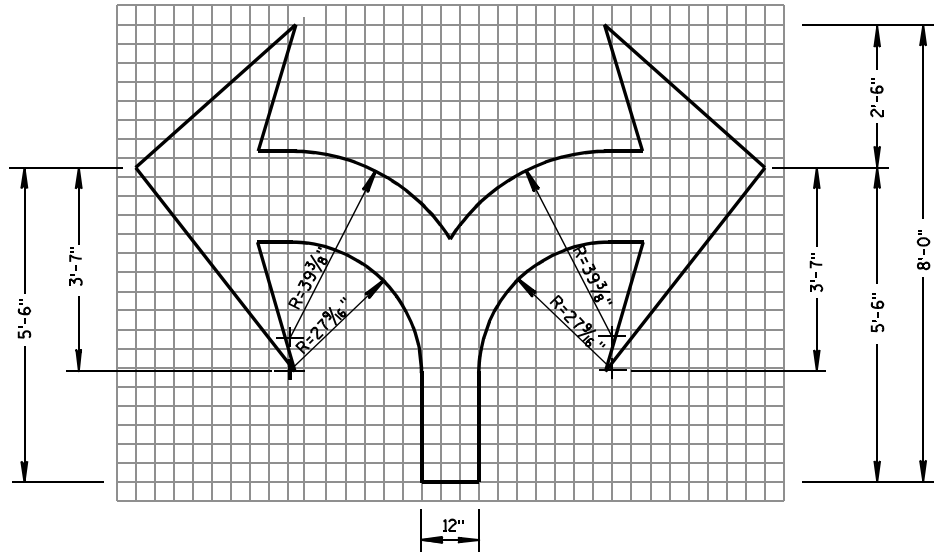
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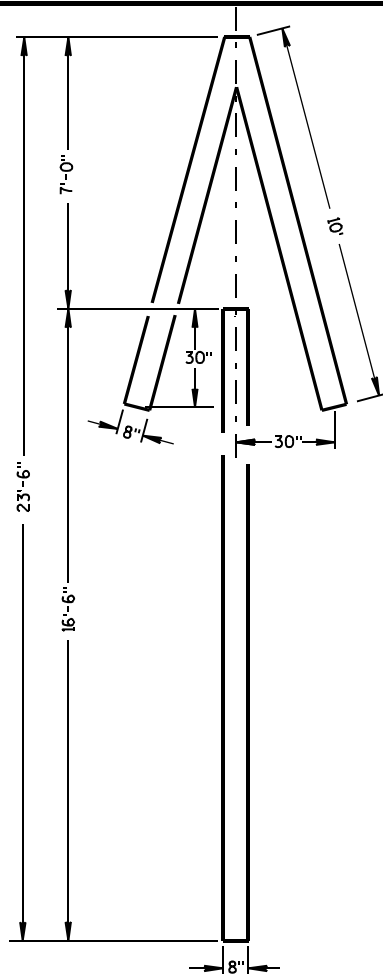
TYPE 1



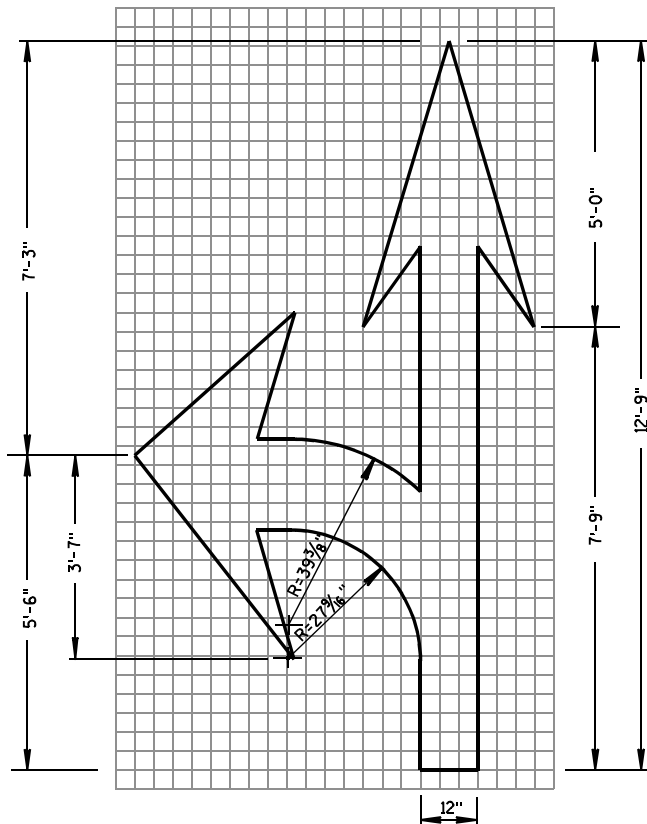
TYPE 6



TYPE 7



TYPE 4

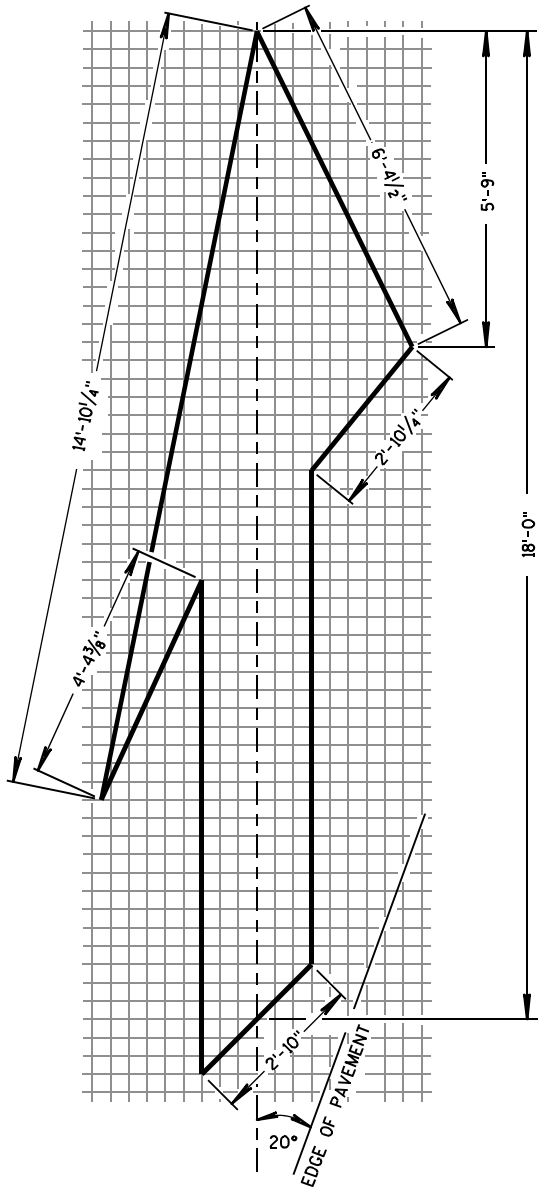


TYPE 3

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.

ALL LETTERS, ARROWS AND SYMBOLS SHALL BE IN CONFORMANCE WITH REQUIREMENTS INCLUDED IN "STANDARD ALPHABETS FOR HIGHWAY SIGNS AND PAVEMENT MARKING" BOOK BY THE FEDERAL HIGHWAY ADMINISTRATION. ALL LETTERS, ARROWS AND SYMBOLS SHALL BE WHITE AND REFLECTORIZED. SMALL DIFFERENCES IN DIMENSIONS WITHIN THE TOLERANCES OF THAT BOOK ARE ACCEPTABLE.



TYPE 5 LANE DROP ARROW

PAVEMENT MARKING ARROWS

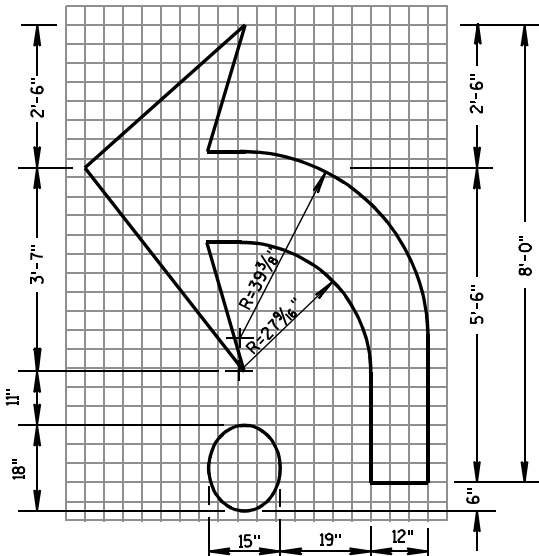
STATE OF WISCONSIN  
DEPARTMENT OF TRANSPORTATION

APPROVED

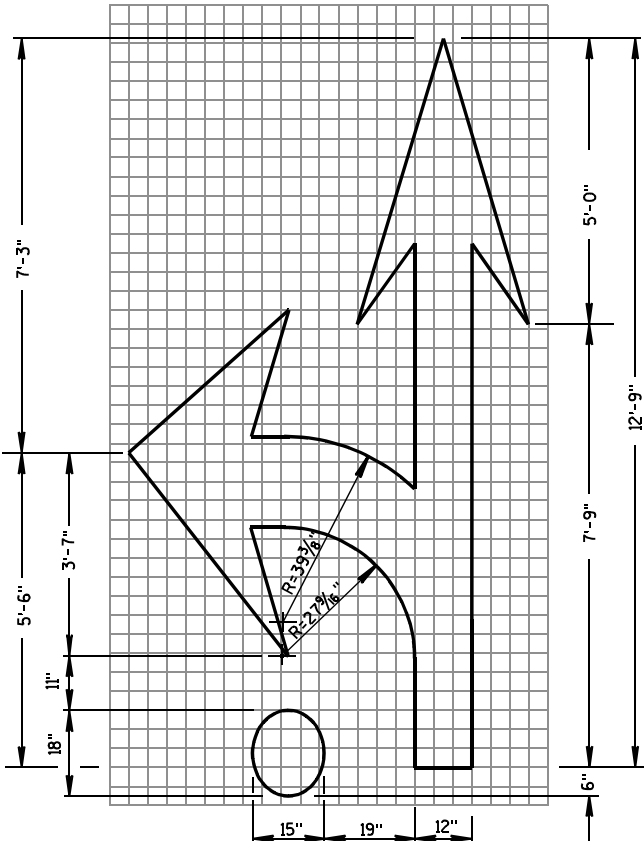
7/1/11  
DATE

/S/ Thomas N. Notbohm  
STATE TRAFFIC ENGINEER OF DESIGN

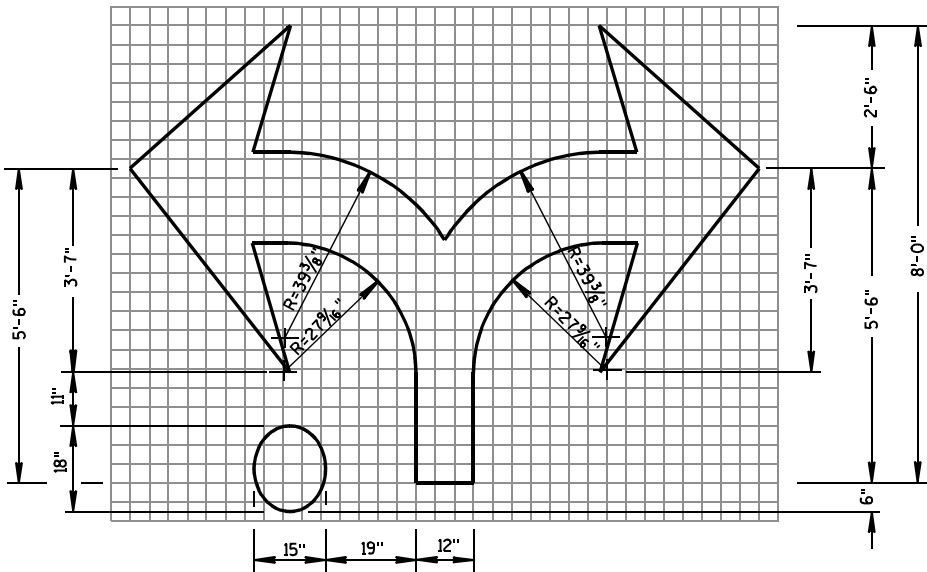
FHWA



TYPE 2R



TYPE 3R

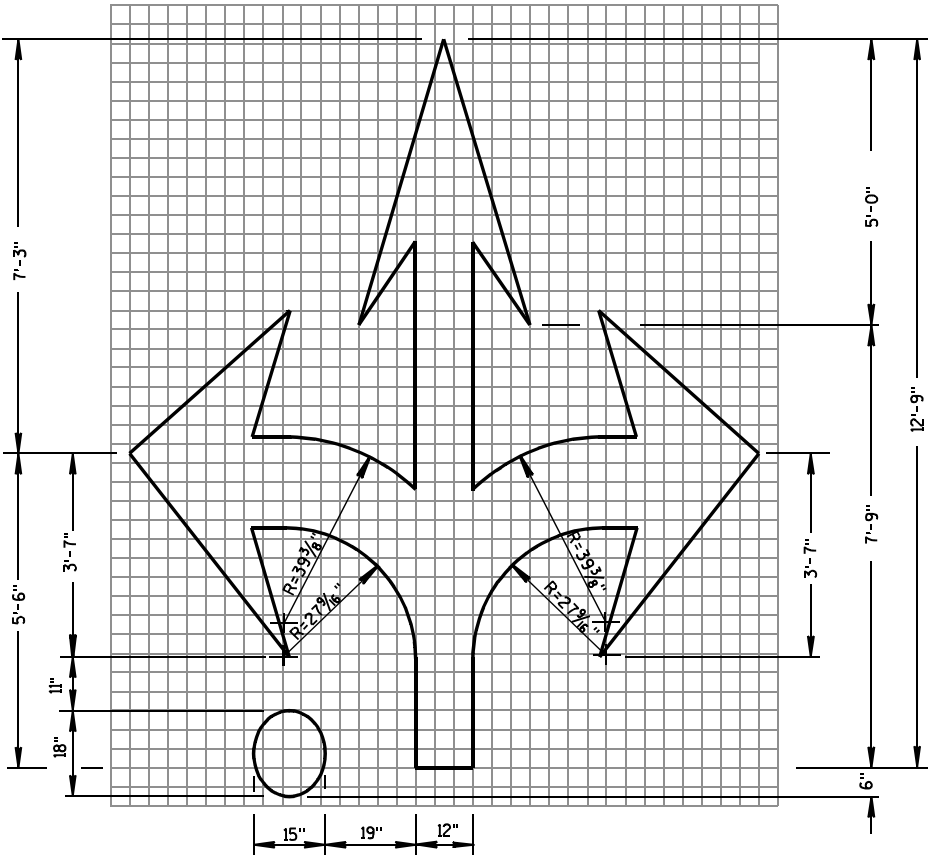


TYPE 7R

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.

ALL LETTERS, ARROWS AND SYMBOLS SHALL BE IN CONFORMANCE WITH REQUIREMENTS INCLUDED IN "STANDARD ALPHABETS FOR HIGHWAY SIGNS AND PAVEMENT MARKING" BOOK BY THE FEDERAL HIGHWAY ADMINISTRATION. ALL LETTERS, ARROWS AND SYMBOLS SHALL BE WHITE AND REFLECTORIZED. SMALL DIFFERENCES IN DIMENSIONS WITHIN THE TOLERANCES OF THAT BOOK ARE ACCEPTABLE.



TYPE 6R

ROUNDBOAT ARROWS

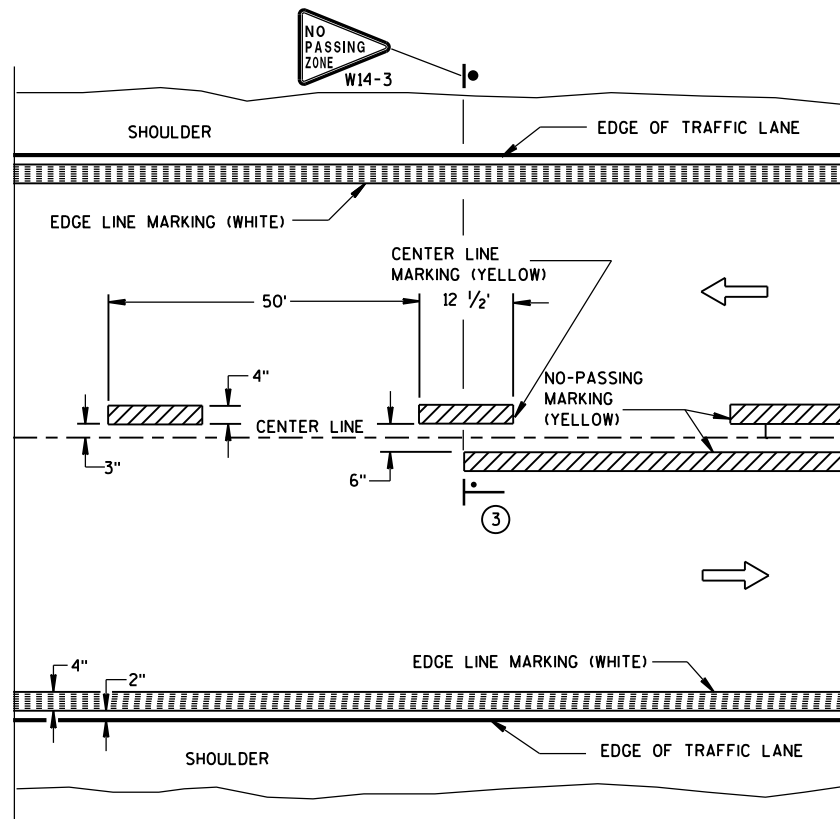
STATE OF WISCONSIN  
DEPARTMENT OF TRANSPORTATION

APPROVED

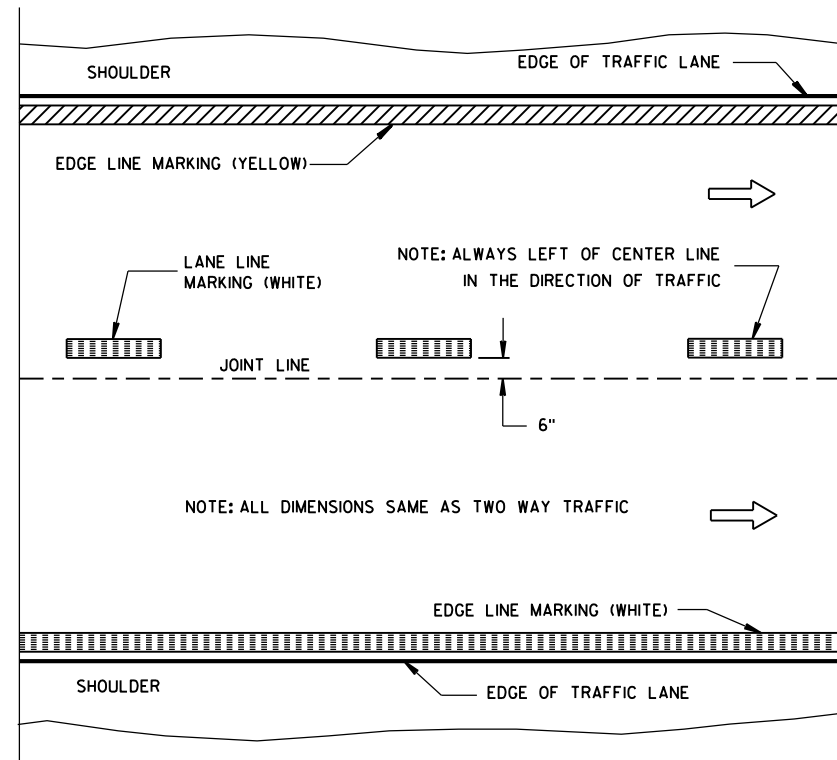
DATE

/S/ Thomas N. Notbohm  
STATE TRAFFIC ENGINEER OF DESIGN

FHWA

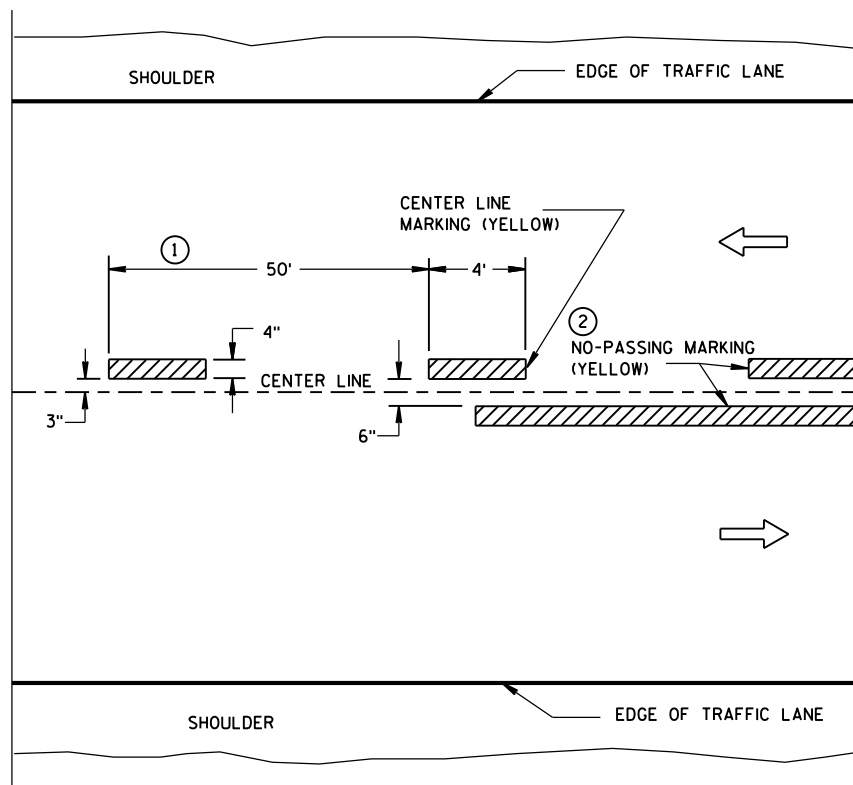


TWO WAY TRAFFIC

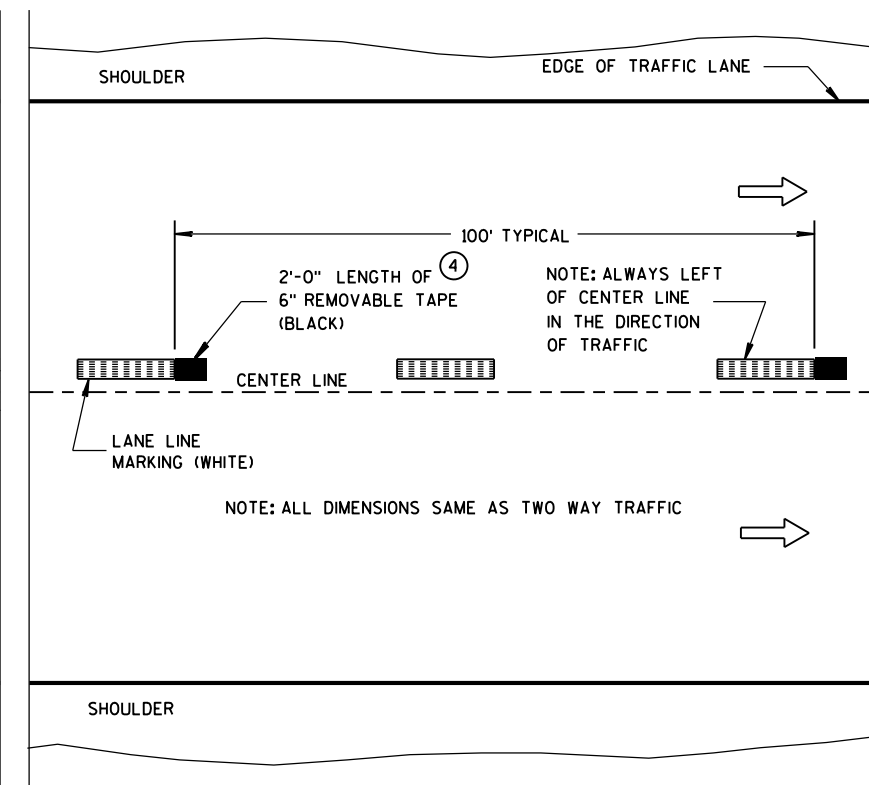


ONE WAY TRAFFIC

## PERMANENT PAVEMENT MARKING



TWO WAY TRAFFIC



ONE WAY TRAFFIC

TEMPORARY (INTERMEDIATE) PAVEMENT MARKING  
(SHOWS CYCLE FOR TEMPORARY CENTER LINE OR TEMPORARY LANE LINE MARKING)

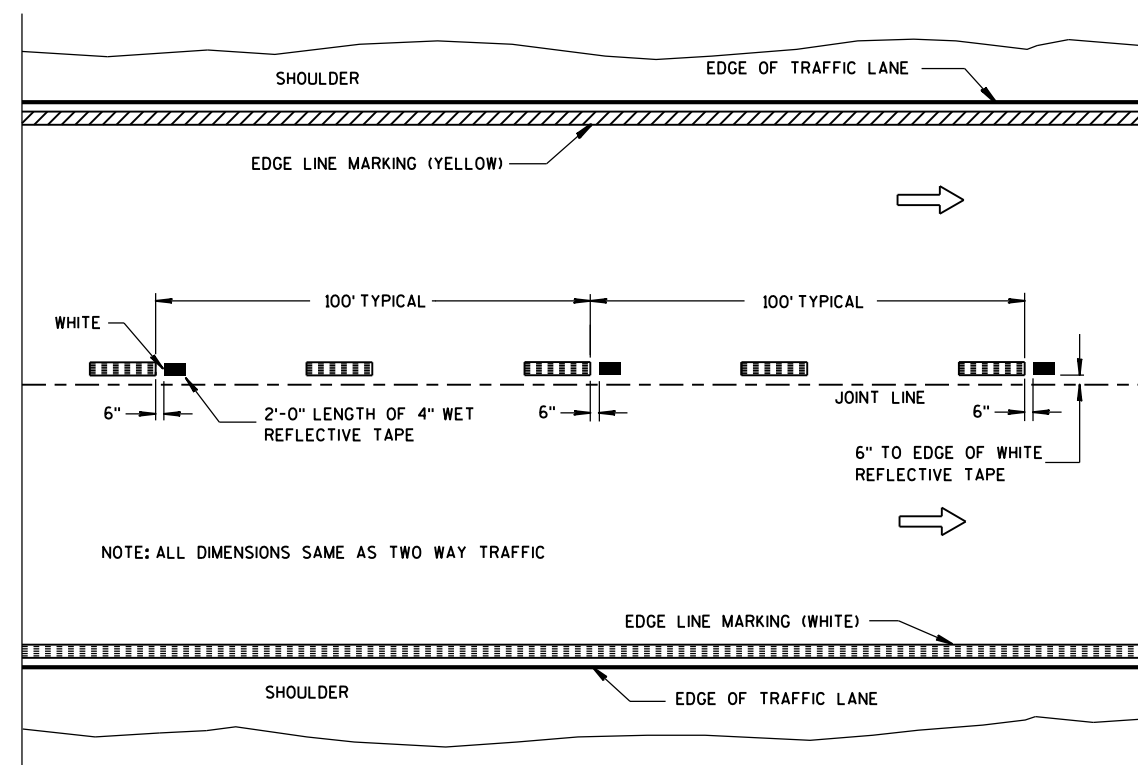
## GENERAL NOTES

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

- ① HALF CYCLE LENGTHS (25'±) WITH 2' MINIMUM STRIPE LENGTHS SHALL BE PROVIDED ON ROADWAYS (INCLUDING TEMPORARY TRAVELED WAYS) WITH REVERSE CURVATURE, CURVATURE OF OVER 5 DEGREES OR WHEN DIRECTED BY THE ENGINEER TO MARK UNUSUAL ALIGNMENT OF THE TRAVELED WAY.
- ② NO PASSING ZONE TEMPORARY PAVEMENT MARKING IS REQUIRED TO BE PLACED, WHERE APPROPRIATE, ALONG WITH CENTERLINE TEMPORARY PAVEMENT MARKING WHEN A SAME DAY PERMANENT PAVEMENT MARKING ITEM IS INCLUDED IN THE CONTRACT.
- ③ NO PASSING ZONE MARKINGS ARE PLACED ACCORDING TO "T" MARKINGS. IF EXISTING NO PASSING ZONE W14-3 SIGNS ARE BEYOND 50 FEET IN EITHER DIRECTION, THE SIGNS SHALL BE MOVED TO THE "T" MARKINGS.
- ④ CONCRETE ONLY.

## NOTE

ARROW SYMBOL (→) SHOWS DIRECTION OF TRAVEL



WET REFLECTIVE TAPE SUPPLEMENT TO  
SPRAYED OR NON WET REFLECTIVE TAPE LANE LINE

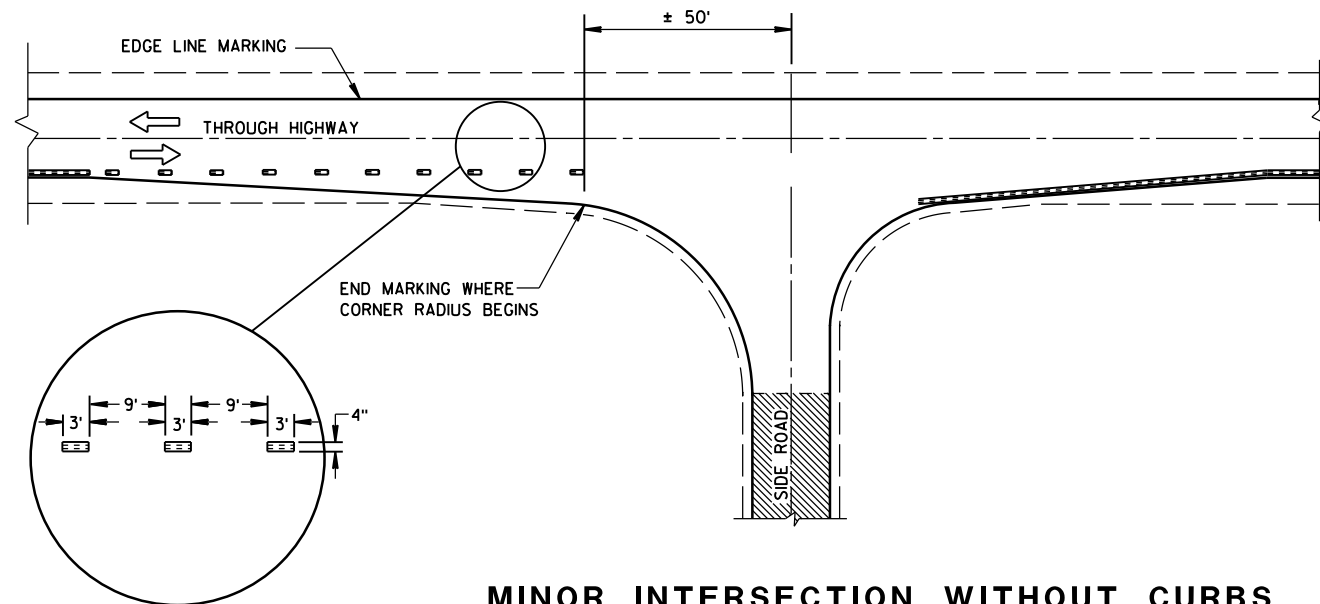
## LEGEND

- "T" MARKING
- POST MOUNTED SIGN

PAVEMENT MARKING  
(MAINLINE)

STATE OF WISCONSIN  
DEPARTMENT OF TRANSPORTATION

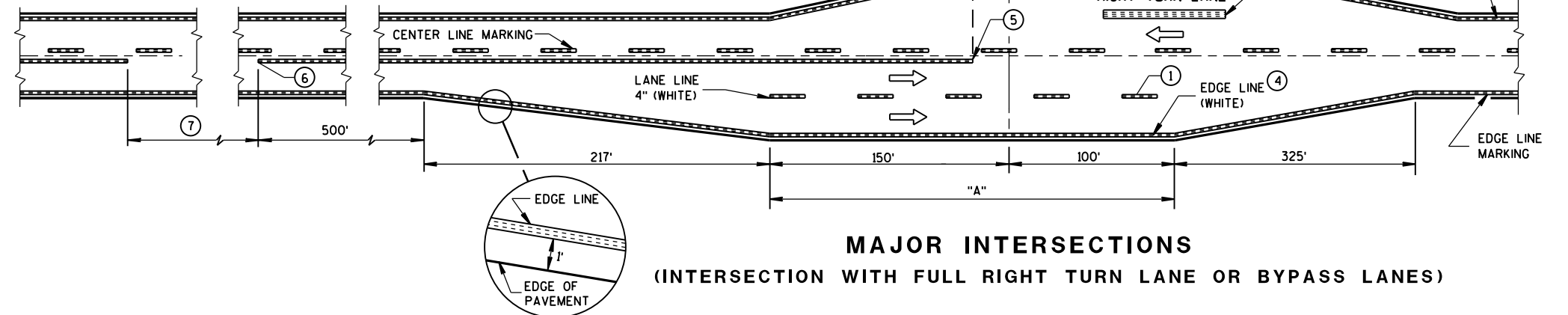
APPROVED  
10-1-2012 /S/ Travis Feltes  
DATE STATE TRAFFIC ENGINEER OF DESIGN  
FHWA



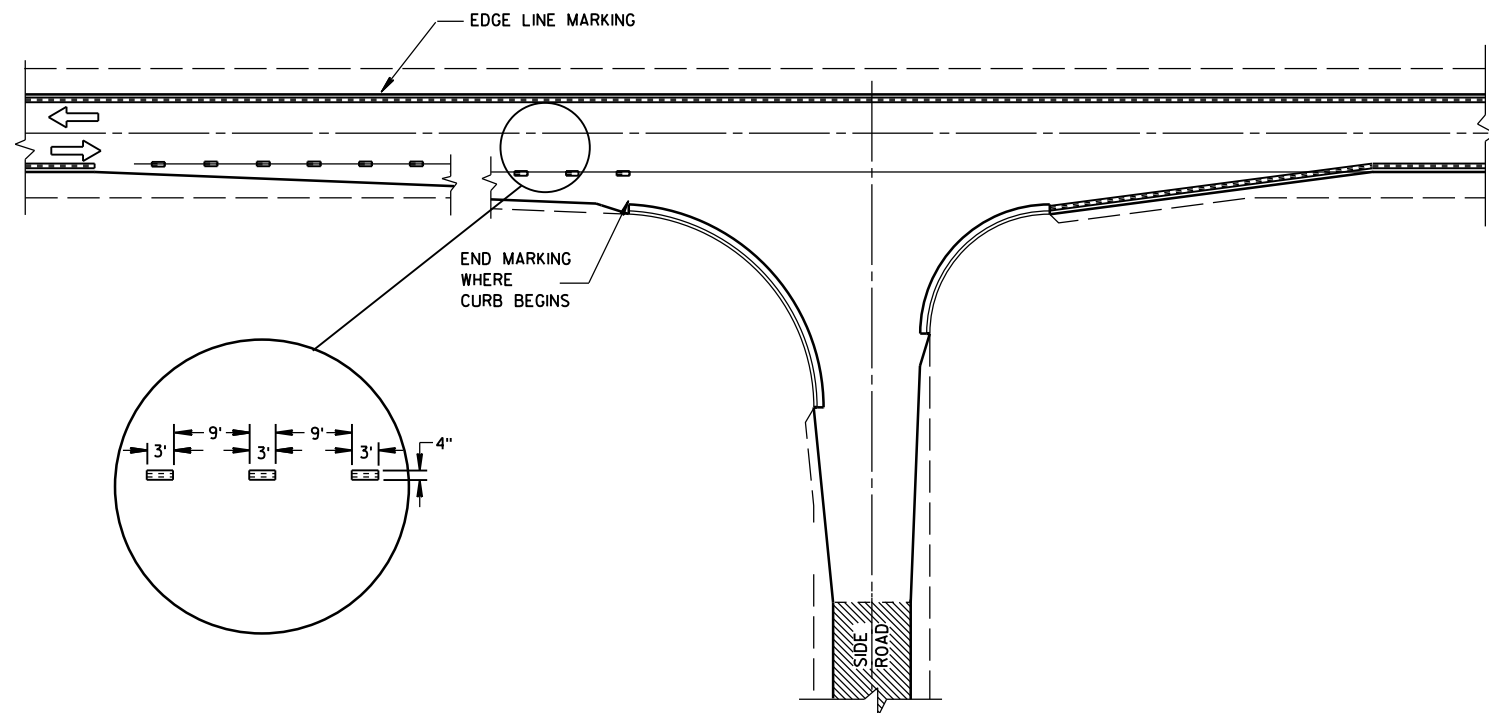
**MINOR INTERSECTION WITHOUT CURBS**

⑦

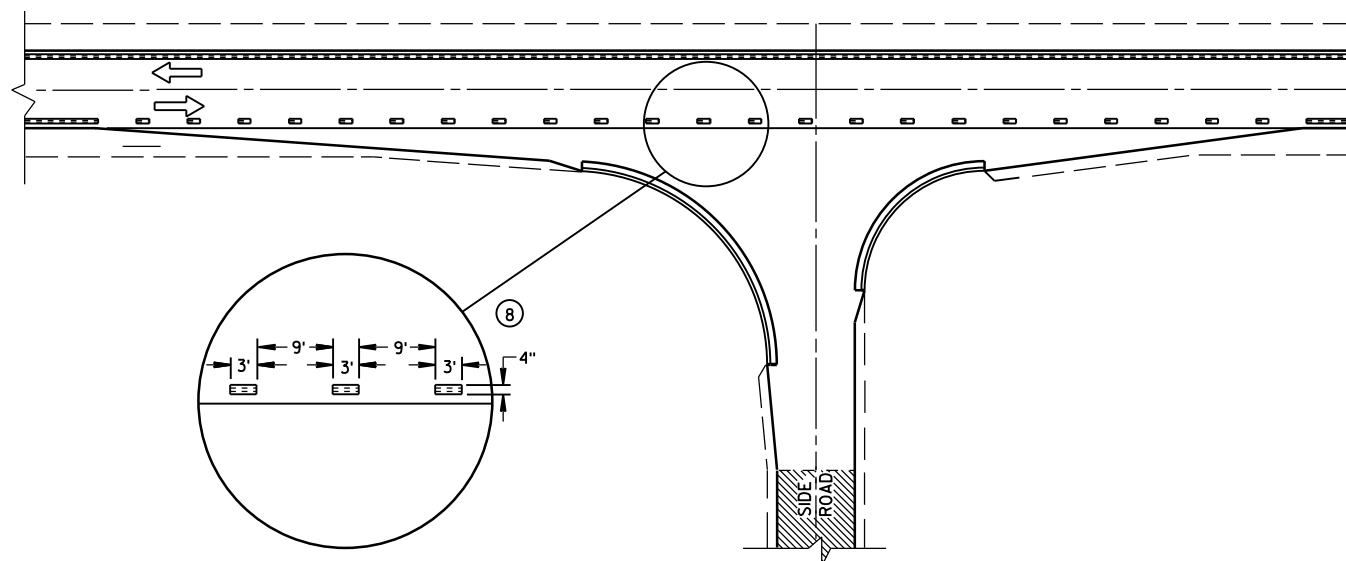
POSTED SPEED (MPH)	MINIMUM DISTANCE BETWEEN ZONES (FEET)
25 - 30	528
35 - 40	528
45 - 50	686
55	792



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



**MINOR INTERSECTION WITH CURBS**  
(TYPICAL MARKING)



**MINOR INTERSECTION WITH CURBS**  
③ (FOR SPECIAL CONDITIONS AS SPECIFIED)

## GENERAL NOTES

EDGE LINES SHALL BE OMITTED THROUGH INTERSECTIONS. EDGE LINES SHALL BE CONTINUED 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 ALTERNATIVE MARKING SHALL BE PROVIDED WHEN SPECIFIED IN THE CONTRACT. TYPICAL SITUATIONS WHERE THIS MARKING MAY BE REQUIRED ARE WHERE THE INTERSECTION IS ON A SHARP HORIZONTAL CURVE OR CREST VERTICAL CURVE IN AN UNLIGHTED AREA SUCH THAT THE EDGE LINE MAY BE MISLEADING TO THE MOTORIST OR DISAPPEAR FROM SIGHT.
- ④ THE EDGE LINE IN THE TAPER AREAS OF THE BYPASS LANE AND THE BYPASS LANE SHALL BE LOCATED 1-FOOT FROM EDGE OF PAVEMENT TO THE OUTSIDE EDGE OF EDGE LINE.

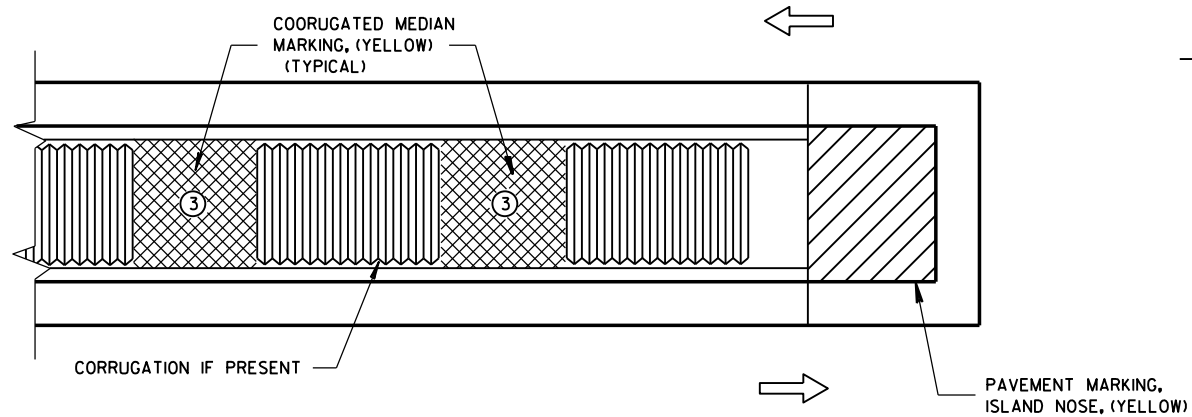
- ⑤ BARRIER LINE ENDS AT SIDE ROAD PAVEMENT/SURFACE EDGE EXTENSION.
- ⑥ BARRIER LINE STARTS 500 FEET PRIOR TO THE BYPASS TAPER.
- ⑦ IF THE DISTANCE BETWEEN 2 SUCCESSIVE NO-PASSING ZONES IS LESS THAN THE MINIMUM DISTANCE BETWEEN ZONES, CONNECT THE 2 ZONES.
- ⑧ 3' LINE 9' GAP, EXCEPT RETRACE THE EXISTING LINE - GAP PATTERN WHERE EXISTING MARKINGS ARE IN PLACE.

ARROW SYMBOL ( → ) SHOWS DIRECTION OF TRAVEL

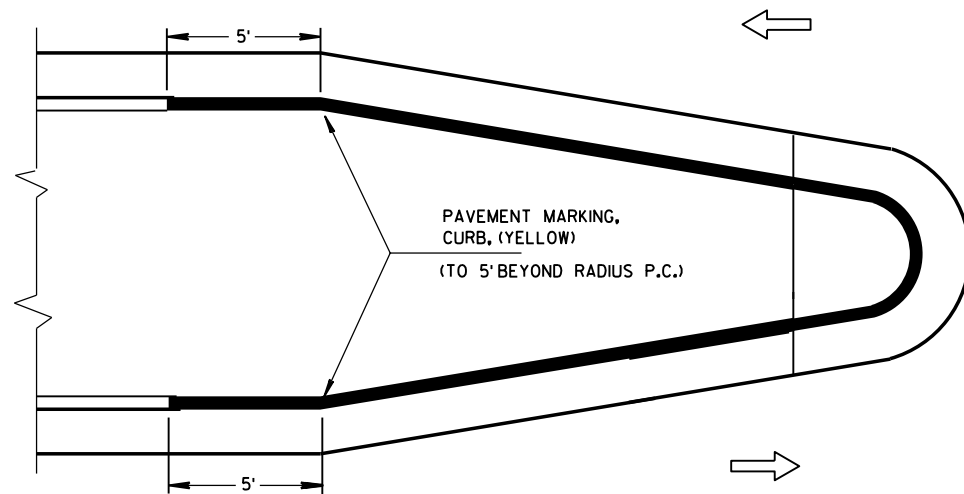
PAVEMENT MARKING  
(INTERSECTIONS)

STATE OF WISCONSIN  
DEPARTMENT OF TRANSPORTATION

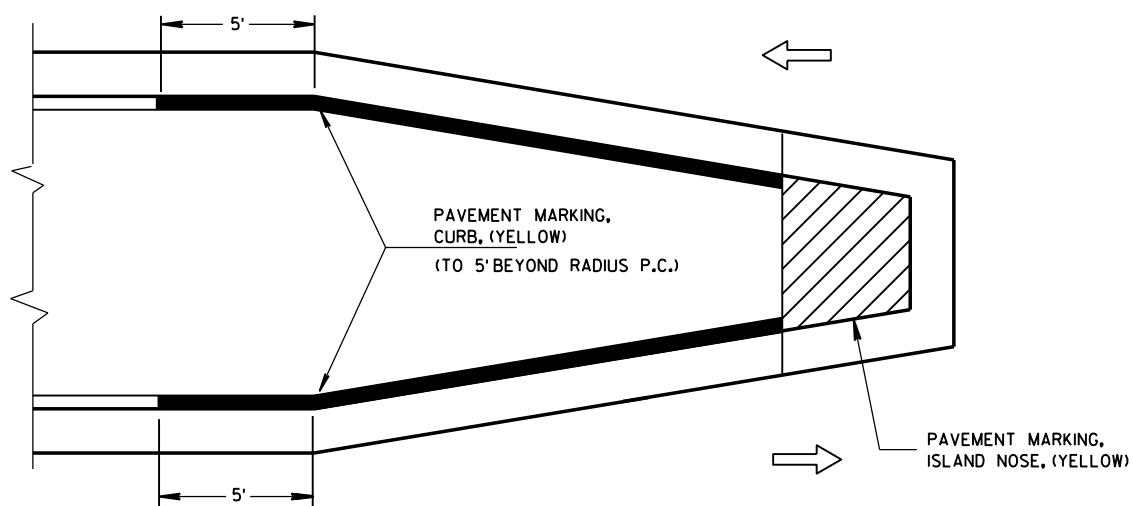




**MEDIAN ISLAND WITH SQUARE BLUNT NOSE**

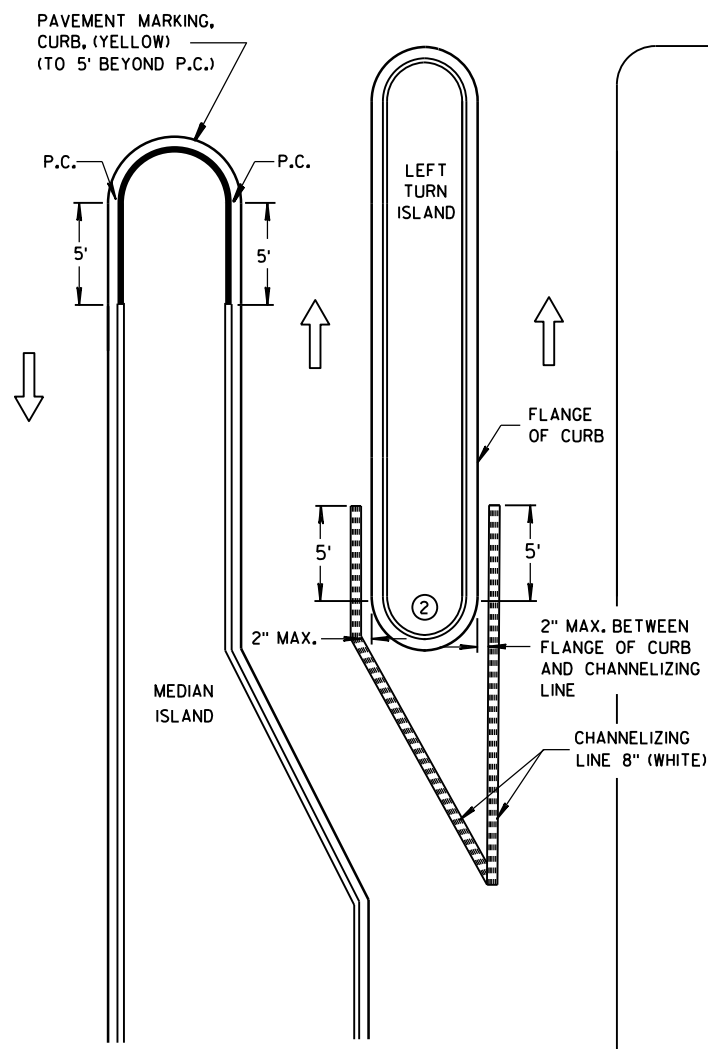


**MEDIAN ISLAND WITH ROUND BLUNT NOSE**



**MEDIAN ISLAND WITH SLOPED NOSE**

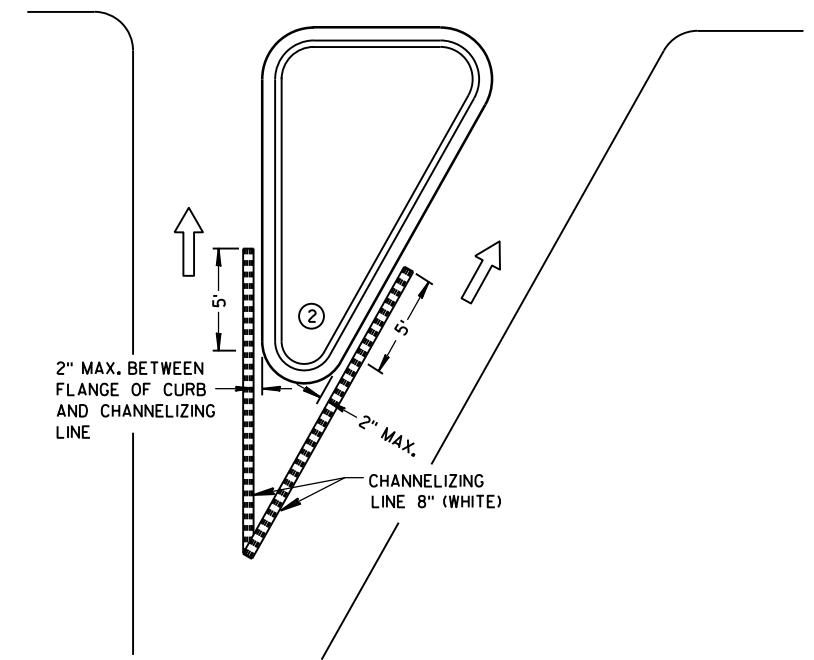
**TYPICAL PLACEMENT OF PAVEMENT MARKING ON MEDIAN ISLANDS**



**LEFT TURN & MEDIAN ISLAND**

**GENERAL NOTES**

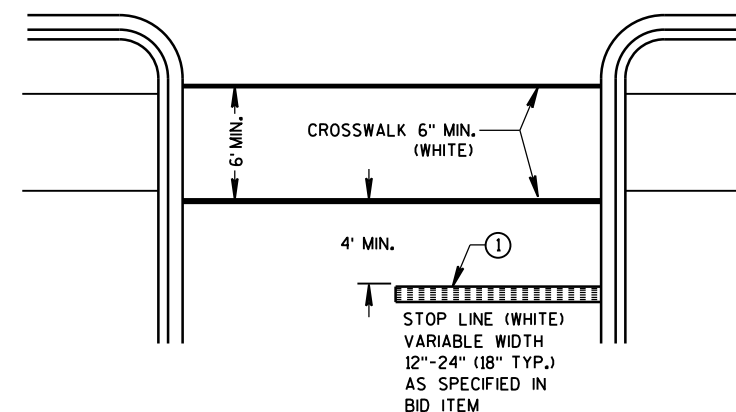
- ① STOP LINE IS REQUIRED ONLY WHEN SPECIFIED IN THE CONTRACT.
- ② DO NOT MARK CURB NOSES THAT SEPARATE LANES OF TRAFFIC TRAVELING IN THE SAME DIRECTION.
- ③ WHEN CONCRETE CORRUGATED MEDIAN IS CONSTRUCTED TO SEPARATE TRAFFIC OPERATING IN THE OPPOSING DIRECTION YELLOW PAVEMENT MARKING SHALL BE APPLIED 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.



**RIGHT TURN ISLAND**

**LEGEND**

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




**STOP LINE AND CROSSWALK**

**PAVEMENT MARKING (ISLANDS, STOP LINE & CROSS WALK)**


STATE OF WISCONSIN  
DEPARTMENT OF TRANSPORTATION

TWO-LANE ROADWAY


**SYMBOLS**



WORK AREA



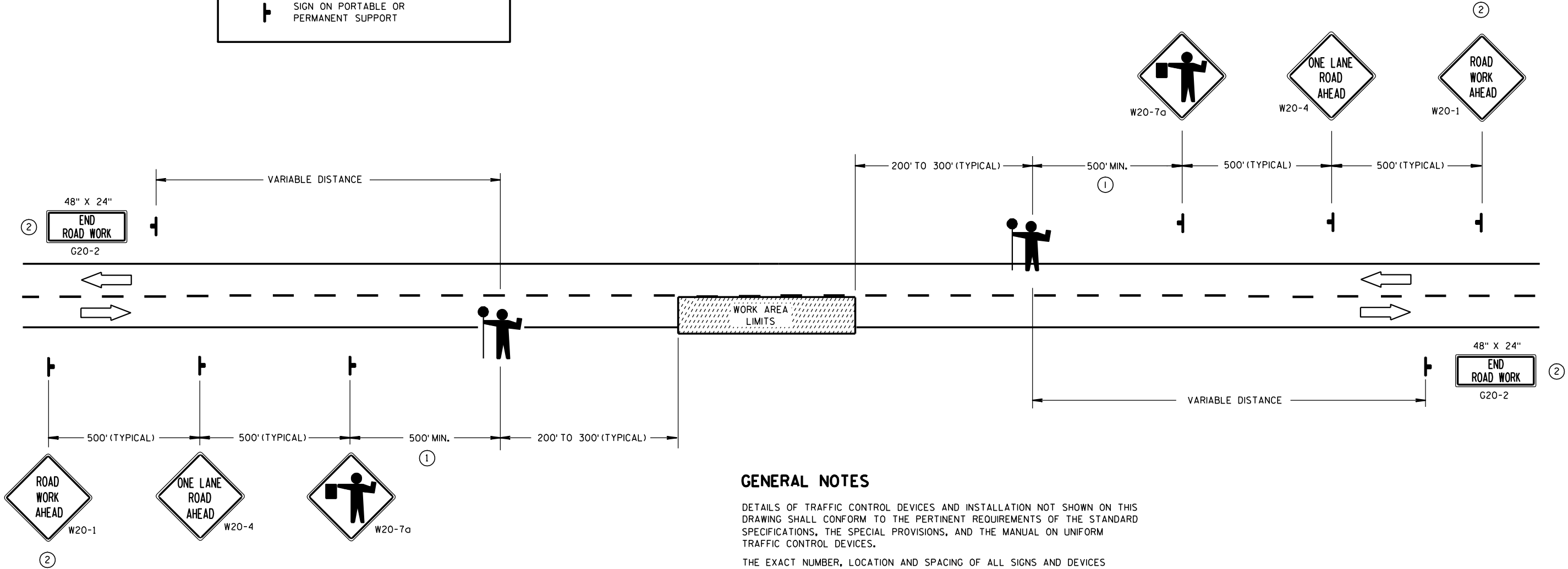
FLAGGER, EQUIPPED WITH STOP/SLOW PADDLE FASTENED ON SUPPORT STAFF



SIGN ON PORTABLE OR PERMANENT SUPPORT



USE OF THE "BE PREPARED TO STOP" SIGN IS OPTIONAL. WHEN USED, THIS SIGN SHALL BE LOCATED BETWEEN THE W20-7a AND W20-4 SIGNS. A 500' TYPICAL SPACING SHALL BE PROVIDED BETWEEN THE SIGNS.



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.

THE EXACT NUMBER, LOCATION AND SPACING OF ALL SIGNS AND DEVICES (AND THE 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.

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, THE "FLAGGER AHEAD", THE "ROAD WORK AHEAD" AND THE ONE LANE ROAD AHEAD" SIGNS SHALL BE COVERED OR REMOVED AND THE HIGHWAY RESTORED TO NORMAL OPERATION.

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

- ① FOR A MOVING WORK OPERATION, SIGNING FOR BOTH DIRECTIONS SHALL BE REESTABLISHED (AS SIMULTANEOUSLY AS PRACTICAL) AT APPROXIMATELY 3500 FOOT 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.

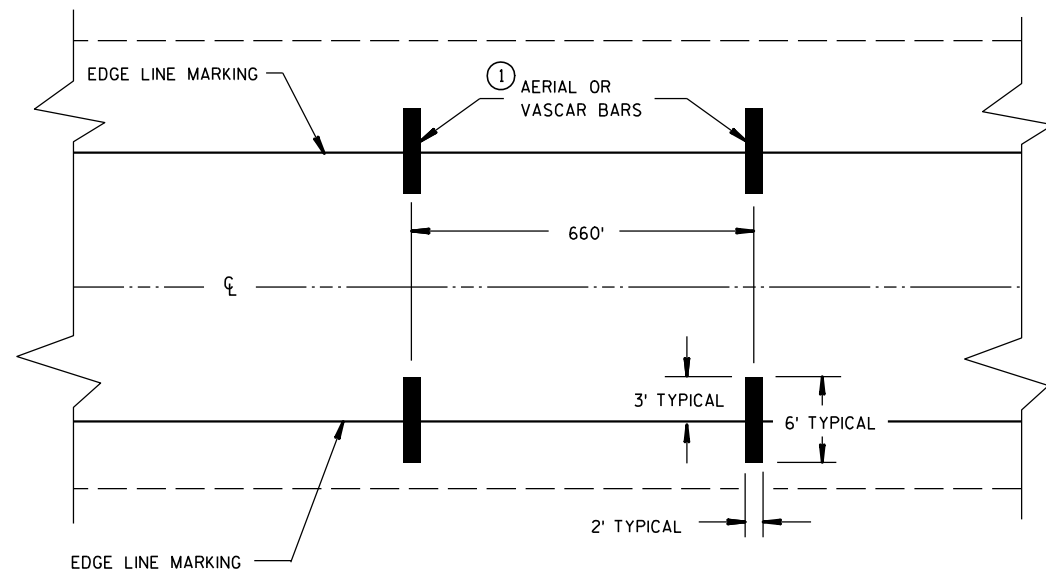
**TRAFFIC CONTROL FOR LANE CLOSURE (SUITABLE FOR MOVING OPERATIONS)**

STATE OF WISCONSIN  
DEPARTMENT OF TRANSPORTATION

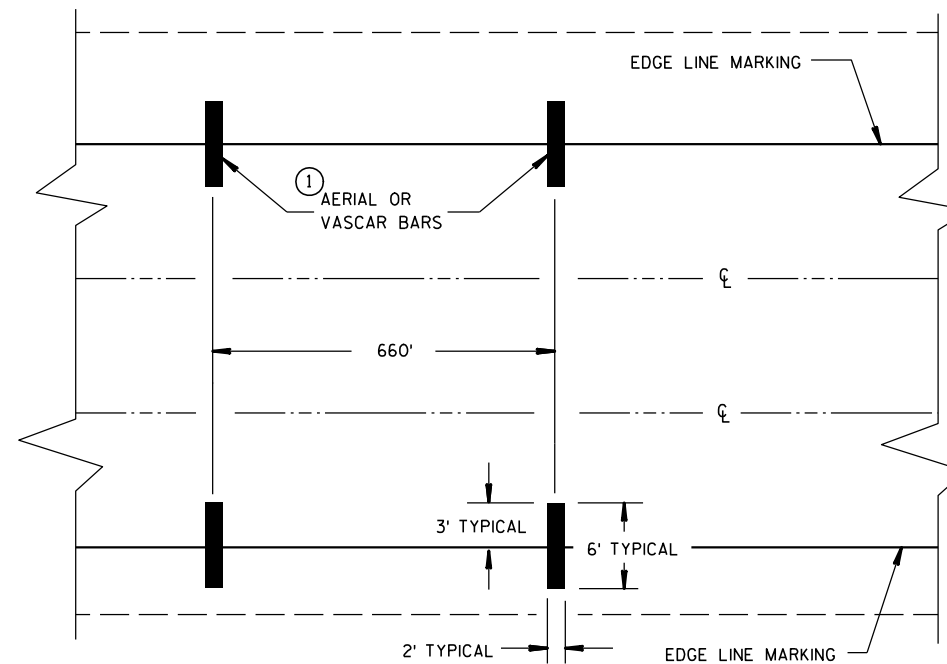
APPROVED  
9/5/06  
DATE

/S/ Thomas N. Notbohm  
STATE TRAFFIC ENGINEER OF DESIGN

FHWA



TYPICAL FOR TWO WAY OR ONE WAY TRAFFIC



TYPICAL FOR MULTILANE TRAFFIC

## SPEED ENFORCEMENT ZONE WITH AERIAL OR VASCAR BARS

### GENERAL NOTES

- ① NUMBER OF VASCAR OR AERIAL BARS SHALL BE A MINIMUM OF 2 OR A MAXIMUM OF 5 AT 660' SPACING.

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

AERIAL ENFORCEMENT BARS  
PAVEMENT MARKING DETAILS

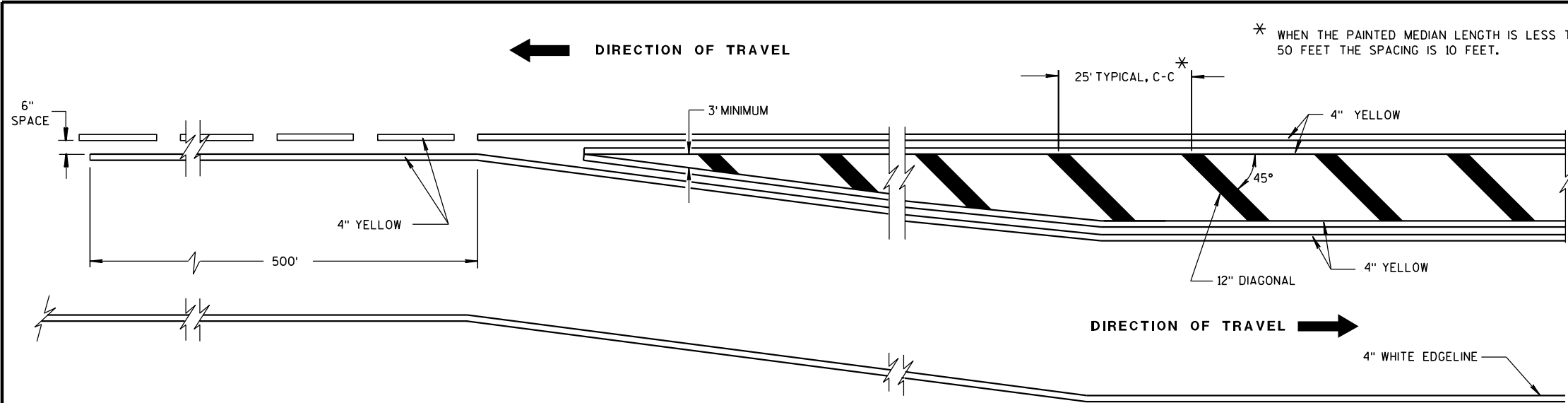
STATE OF WISCONSIN  
DEPARTMENT OF TRANSPORTATION

APPROVED

4/23/01  
DATE

/S/ Chester J. Spang  
CHIEF SIGNS AND MARKING ENGINEER

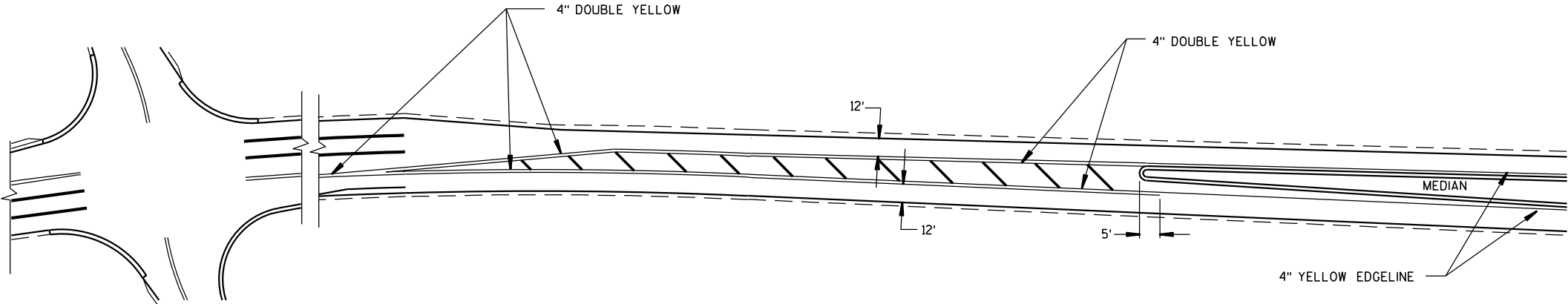
FHWA



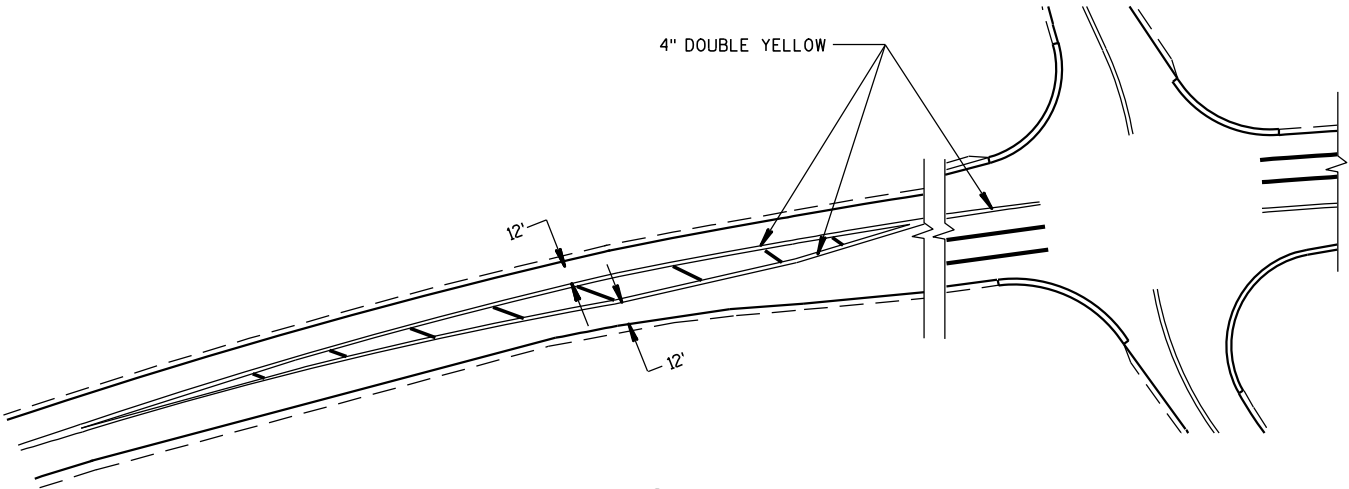
MEDIAN ISLAND DETAIL

GENERAL NOTE

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

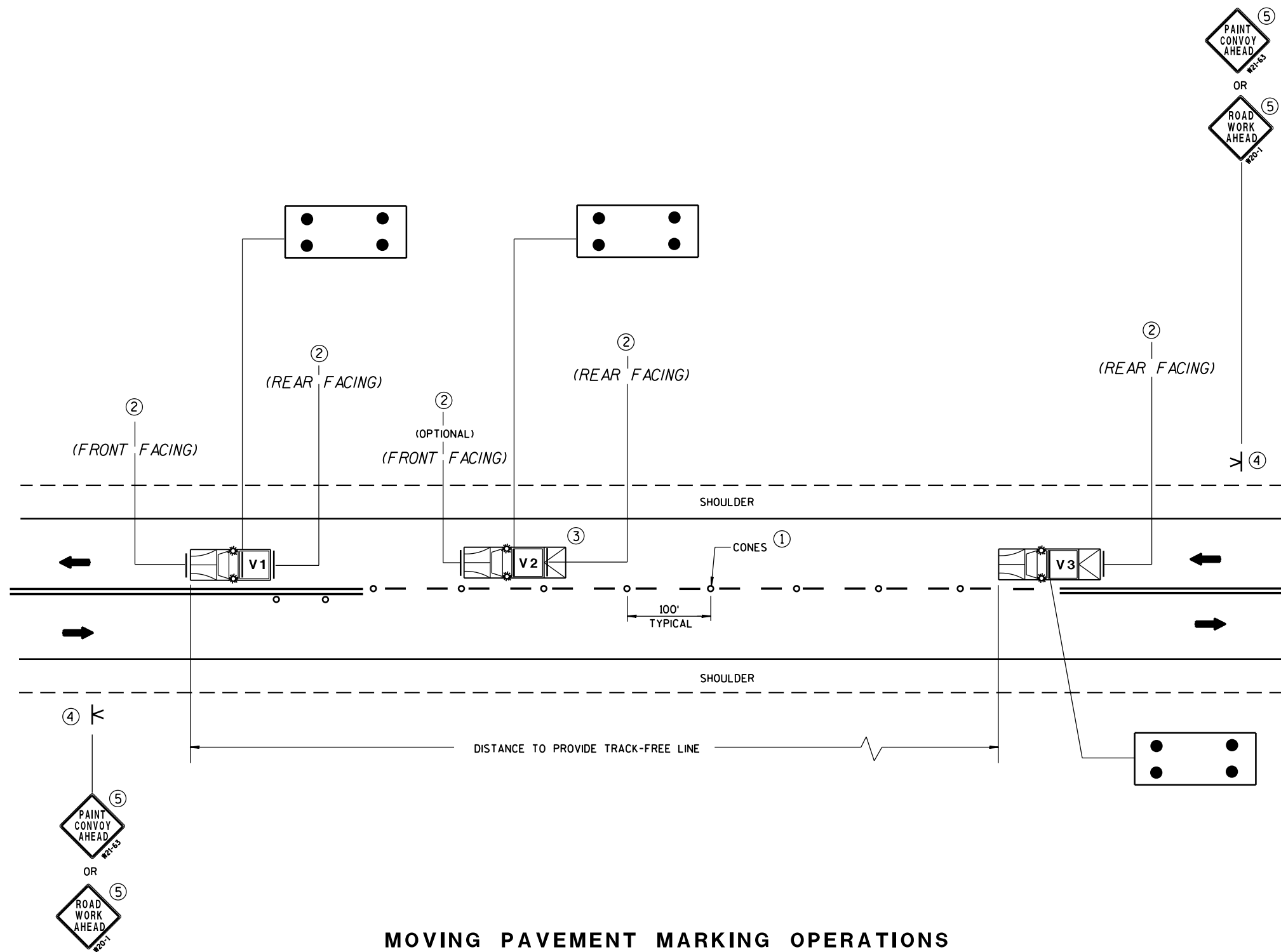


APPROACH MARKINGS FOR OTHER MEDIAN TYPES



NON APPROACH MARKINGS

MEDIAN ISLAND MARKING	
STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION	
APPROVED 2-5-09 DATE	/S/ Thomas N. Notbohm STATE TRAFFIC ENGINEER OF DESIGN
FHWA	



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

### 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.

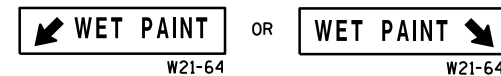
THE WORK AND SHADOW VEHICLES SHOULD PULL OVER PERIODICALLY TO ALLOW TRAFFIC TO PASS.

THIS DRAWING SHALL BE USED FOR CENTERLINE OR EDGE LINE 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.



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

**K** SIGN ON PORTABLE SUPPORT

**→** DIRECTION OF TRAVEL

**○** CONES

**⋮** FLASHING ARROW PANEL (CAUTION)

MOVING PAVEMENT MARKING  
OPERATION  
TWO-LANE TWO-WAY ROADWAY

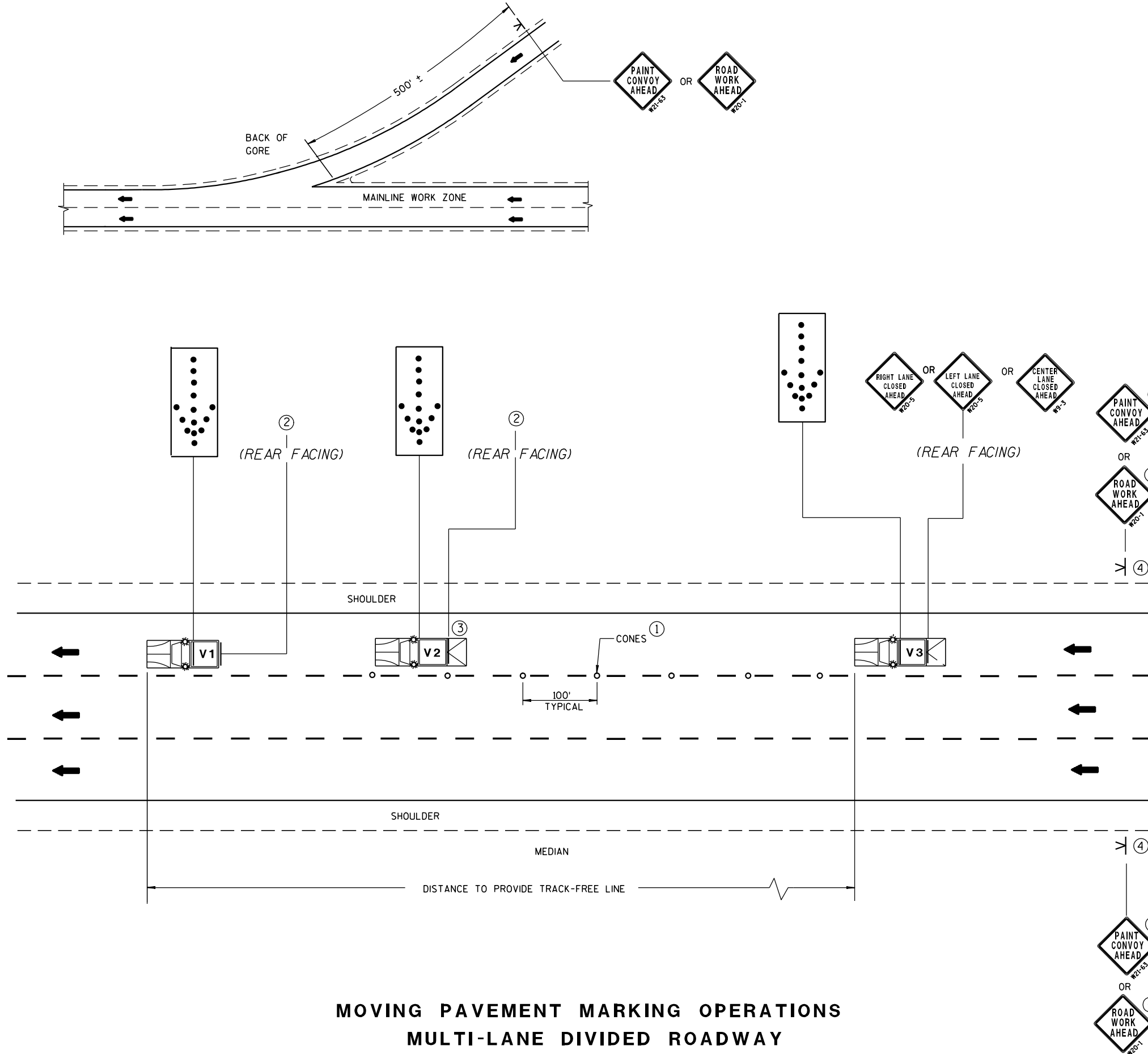
STATE OF WISCONSIN  
DEPARTMENT OF TRANSPORTATION

APPROVED

12/6/2011  
DATE

FHWA

/S/ Thomas N. Notbohm  
STATE TRAFFIC ENGINEER OF DESIGN



MOVING PAVEMENT MARKING OPERATIONS  
MULTI-LANE DIVIDED ROADWAY

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.

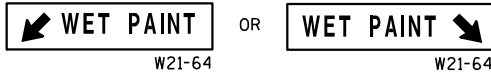
USE AN ATTENUATOR ON THE REARMOST VEHICLE THAT BLOCKS ALL OR PART OF THE TRAFFIC LANE.

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.
- ③ OPTIONAL TRUCK-MOUNTED ATTENUATOR.
- ④ SIGNS SHALL BE REPEATED AFTER EVERY ON RAMP OR EVERY THREE MILES.
- ⑤ IF CONSTRUCTION WORK ZONE SIGNS ARE IN PLACE, W20-1 OR W21-63 ARE NOT REQUIRED.



LEGEND

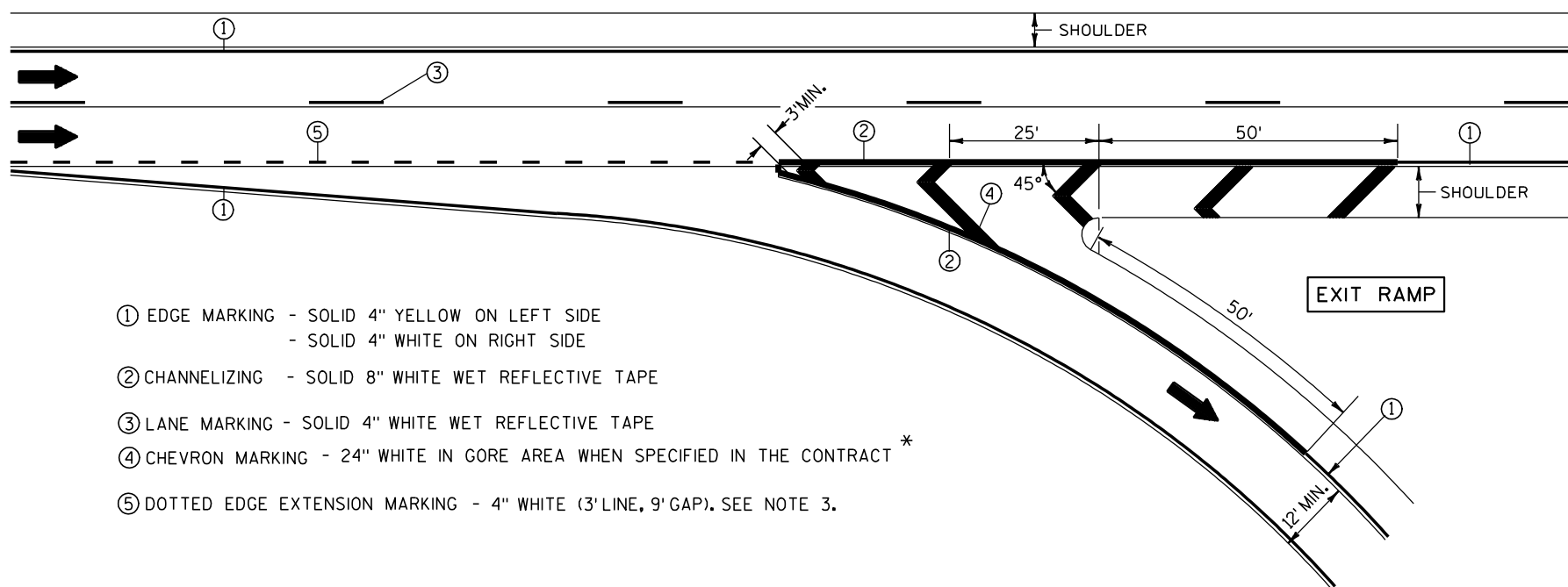
- V1 LEAD VEHICLE
- V2 SHADOW VEHICLE
- V3 TRAIL VEHICLE WITH TMA
- TMA TRUCK-MOUNTED ATTENUATOR
- SIGN ON PORTABLE SUPPORT
- DIRECTION OF TRAVEL
- CONES
- FLASHING ARROW PANEL (MERGE)

MOVING PAVEMENT MARKING  
OPERATION  
MULTI-LANE DIVIDED ROADWAY

STATE OF WISCONSIN  
DEPARTMENT OF TRANSPORTATION

APPROVED  
12/6/2011 /S/ Thomas N. Notbohm  
DATE STATE TRAFFIC ENGINEER OF DESIGN

FHWA

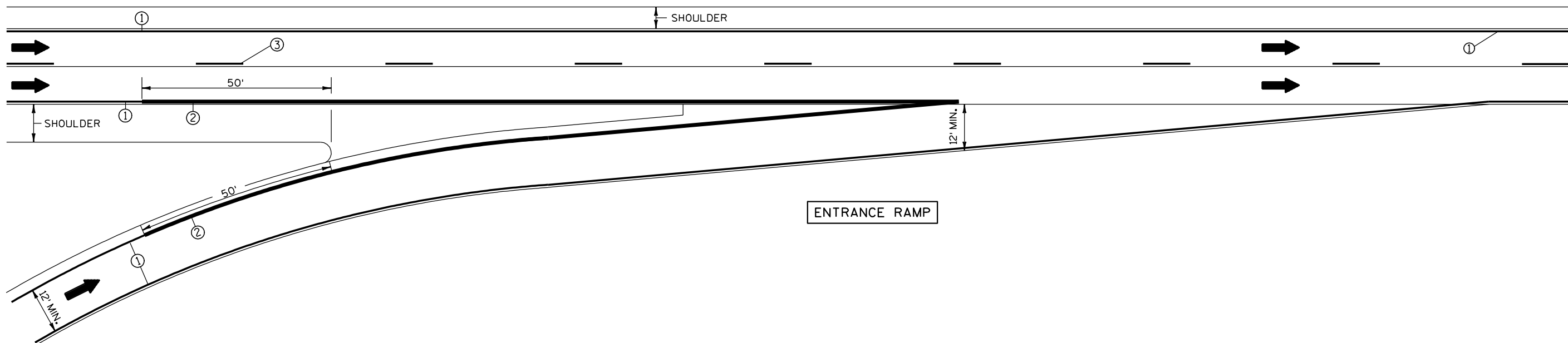


- ① EDGE MARKING - SOLID 4" YELLOW ON LEFT SIDE  
- SOLID 4" WHITE ON RIGHT SIDE
- ② CHANNELIZING - SOLID 8" WHITE WET REFLECTIVE TAPE
- ③ LANE MARKING - SOLID 4" WHITE WET REFLECTIVE TAPE
- ④ CHEVRON MARKING - 24" WHITE IN GORE AREA WHEN SPECIFIED IN THE CONTRACT \*
- ⑤ DOTTED EDGE EXTENSION MARKING - 4" WHITE (3' LINE, 9' GAP). SEE NOTE 3.

NOTES:

- 1. ARROWS SHOWN ON THIS MARKING PLAN DESIGNATE TRAFFIC FLOW, AND SHALL NOT BE TAKEN AS PROPOSED PAVEMENT MARKINGS.
- 2. PLACE WHITE EDGE OF TAPE 6" LEFT FROM JOINT.
- 3. 3' LINE 9' GAP, EXCEPT RETRACE THE EXISTING LINE-GAP PATTERN WHERE EXISTING MARKINGS ARE IN PLACE.
- 4. RETRACE EXISTING DIAGONAL MARKINGS.

\* REFER TO DESIGN NOTES.



PAVEMENT MARKING  
(RAMPS AND GORES)

STATE OF WISCONSIN  
DEPARTMENT OF TRANSPORTATION

LEGEND

- POST WITH ATTACHED SIGN
- POST WITH ATTACHED SIGN IN DRUM
- DRUM WITH WARNING LIGHT (TYPE C)
- DRUM
- ARROW BOARD
- 8' TYPE III BARRICADE
- \*-x-\* REMOVING PAVEMENT MARKING
- DIRECTION OF TRAFFIC

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 DESIREABLE) DISTANCE TO EXISTING SIGNS.

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

ALL SIGNS ARE 48"x48" 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 AND AS APPROVED BY THE ENGINEER. NO WARNING LIGHTS SHALL BE WORKING ON "COVERED" OR "DOWNED" SIGNS.

- ① CONSIDER GEOMETRICS WHEN LOCATING SIGNS AND ARROW BOARD SO THE DRIVER HAS A CLEAR VIEW OF THE ARROW BOARD AND LANE CLOSURE DRUMS FOR A MINIMUM 1500 FEET IN FRONT OF DRUMS.

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.

GENERAL NOTES CONTINUED:

REMOVE PAVEMENT MARKINGS IF LANE CLOSURE IS TO BE IN PLACE FOR LONGER THAN 7 CONTINUOUS DAYS AND NIGHTS.

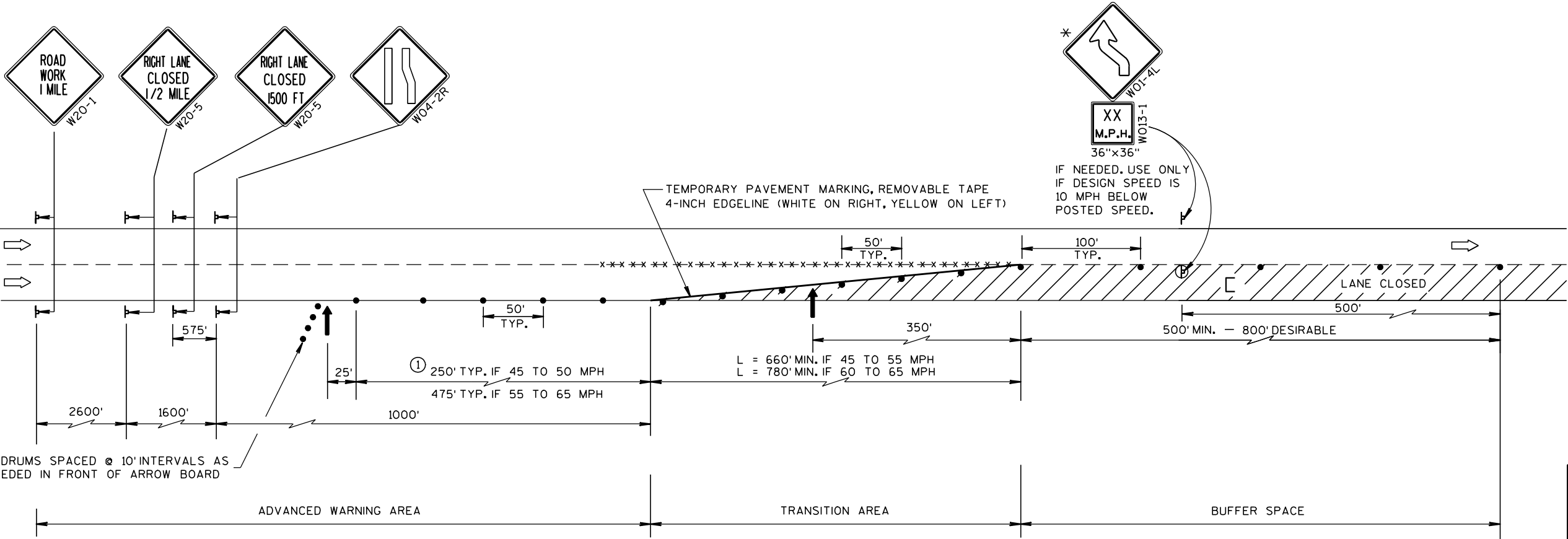
WARNING LIGHTS ARE NOT REQUIRED IF THE LANE CLOSURE IS A DAYTIME ONLY OPERATION.

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

IF LANE CLOSURE IS MORE THAN 1 MILE, PLACE A TYPE III BARRICADE APPROXIMATELY EVERY 1/4 MILE ACROSS THE CLOSED LANE TO HELP ENFORCE THE DRUM LINE.

ADJUSTMENTS IN BUFFER SPACE NEED TO BE INCORPORATED WHEN THE LANE CLOSURE OCCURS NEAR AN INTERCHANGE EXIT OR ENTRANCE RAMP. THE LANE CLOSURE MUST 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 1/2 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.

- \* THE LEFT REVERSE CURVE SIGN (W01-4L) IS ONLY REQUIRED WHEN THIS DETAIL IS USED IN COMBINATION WITH "SINGLE LANE CROSSOVER" DETAIL.



TRAFFIC CONTROL,  
LANE CLOSURE, SPEEDS  
GREATER THAN 40 M.P.H.

STATE OF WISCONSIN  
DEPARTMENT OF TRANSPORTATION

APPROVED  
8-7-95  
DATE /S/ Chester J. Spang  
DIRECTOR, OFFICE OF TRAFFIC  
FHWA



## Notes



## *Wisconsin Department of Transportation*

Dedicated people creating transportation solutions  
through innovation and exceptional service.

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