

GRE

PROJECT ID: 1009-33-16

WITH: N/A

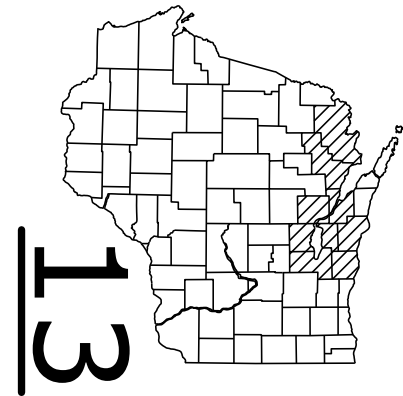
COUNTY: NE REGION WIDE

APR 2016

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. 5	Plan
Section No. 6	Standard Detail Drawings
Section No. 7	Sign Plates
Section No. 8	Structure Plans

TOTAL SHEETS = 64



DESIGN DESIGNATION

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

CONVENTIONAL SYMBOLS

PLAN	
CORPORATE LIMITS	
REFERENCE LINE	
COMBUSTIBLE FLUIDS	
UTILITIES	
ELECTRIC	
FIBER OPTIC	
GAS	
SANITARY SEWER	
STORM SEWER	
TELEPHONE	
WATER	
UTILITY PEDESTAL	
POWER POLE	
TELEPHONE POLE	

STATE OF WISCONSIN

DEPARTMENT OF TRANSPORTATION

STATE HIGHWAY REHABILITATION-MAINTENANCE PROJECT

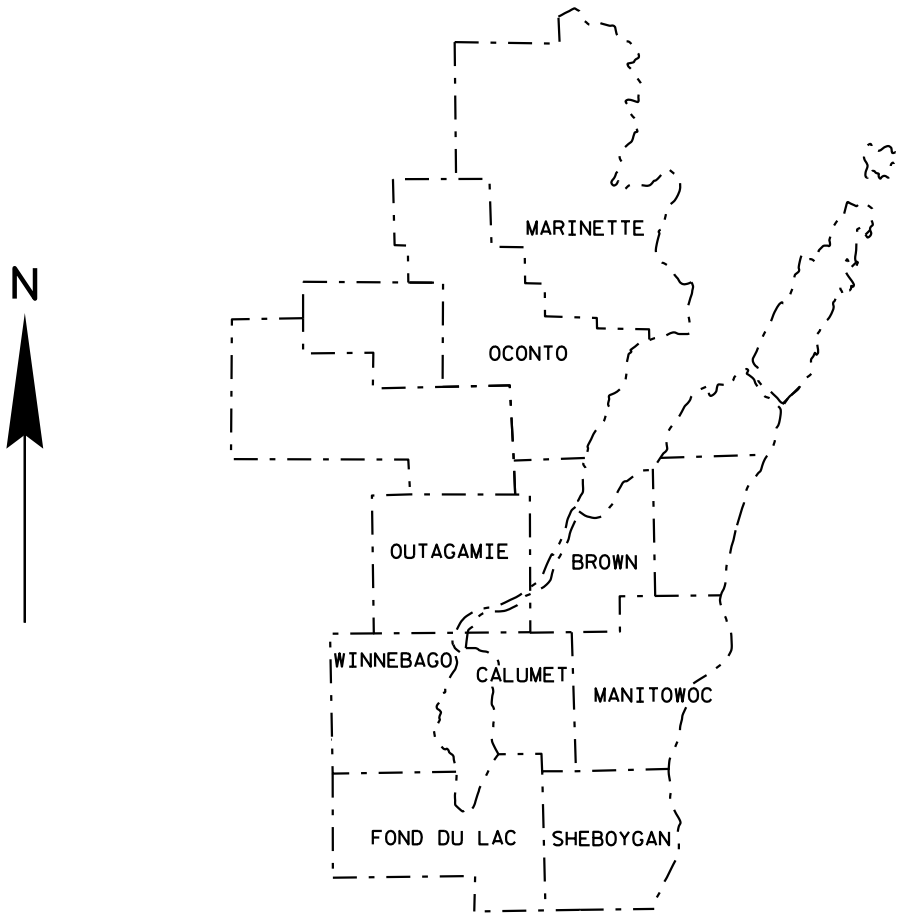
EPOXY PAVEMENT MARKING- STH/USH

VARIOUS STH/USH REGION WIDE

VAR HWY

NORTHEAST REGION WIDE

STATE PROJECT NUMBER
1009-33-16



LAYOUT

SCALE 0 20 MI.

TOTAL NET LENGTH OF CENTERLINE = 146.0 MI.

BROWN CO	32.5 MILES
CALUMET CO	6.0 MILES
FOND DU LAC CO	17.0 MILES
MANITOWOC CO	24.0 MILES
MARINETTE CO	13.0 MILES
OCONTO CO	40.0 MILES
OUTAGAMIE CO	8.0 MILES
SHEBOYGAN CO	25.0 MILES
WINNEBAGO CO	10.0 MILES
TOTAL	175.5 MILES

STATE PROJECT	FEDERAL PROJECT	
	PROJECT	CONTRACT
1009-33-16	WISC 2016097	1

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

PREPARED BY

Surveyor _____

Designer S HERLACHE

Project Manager _____

District Examiner _____

District Supervisor M FREWARD

C.O. Examiner _____

APPROVED FOR DISTRICT OFFICE

DATE: 2/1/16

(Signature)

E

GENERAL NOTES

THERE ARE NO UTILITY ADJUSTMENTS NECESSARY TO ACCOMODATE THE WORK UNDER THIS PROJECT.

DIGGERSHOTLINE

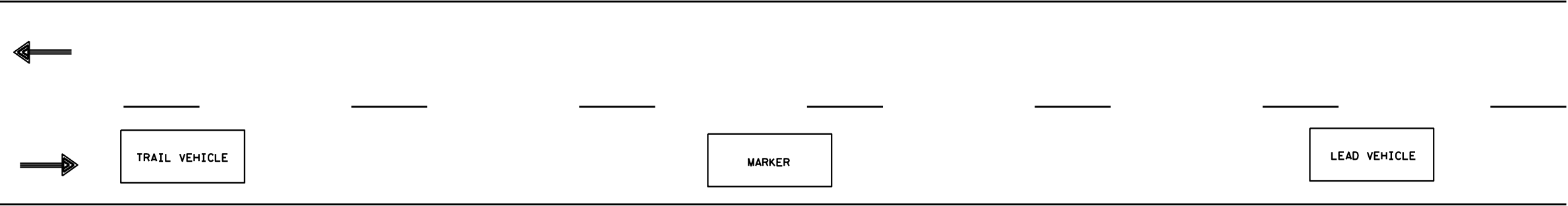
Dial  or (800)242-8511

www.DiggersHotline.com

LEVELS ON • 1,2,3,4,5,6,7,8,9,10,11,12,13,14,15,16,17,18,19,20,21,22,23,24,25,26,27,28,29,30,31,32,33,34,35,36,37,38,39,40,41,42,43,44,45,46,47,48,49,50,51,52,53,54,55,56,57,58,59,60,61,62,63

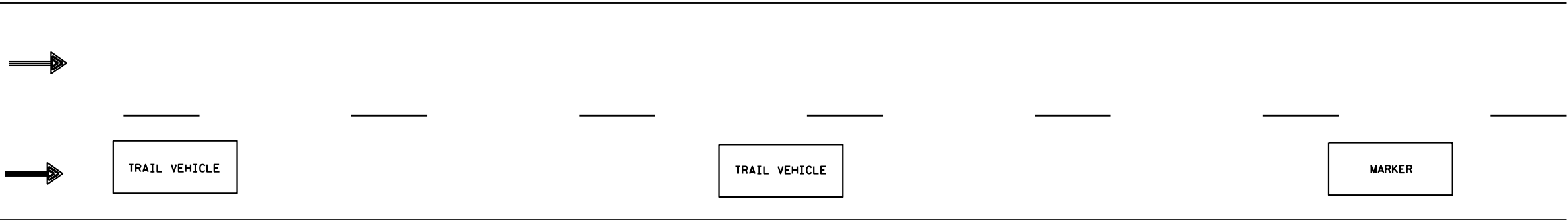
STATE PROJECT NUMBER:1009-33-16	HWY:VARIOUS	COUNTY:VARIOUS	GENERAL NOTES	SCALE, FEET 	SHEET NO:	E
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LEVELS ON - 1,2,3,4,5,6,7,8,9,10,11,12,13,14,15,16,17,18,19,20,21,22,23,24,25,26,27,28,29,30,31,32,33,34,35,36,37,38,39,40,41,42,43,44,45,46,47,48,49,50,51,52,53,54,55,56,57,58,59,60,61,62,63



FRONT AND REAR ARROW BOARDS	REAR ARROW BOARD	FRONT AND REAR ARROW BOARDS
SIGN FACING REAR "ROADWAY MARKING" * VEHICLE CONVOY WET ** LINE	SIGN FACING REAR "WET PAINT/EPOXY" FREQUENT STOPS	SIGN FACING FRONT "ROADWAY MARKING" KEEP RIGHT SIGN FACING REAR "ROAD MARKING" * VEHICLE CONVOY WET ** LINE

CONVENTIONAL ROADWAYS



SIGN "ROADWAY MARKING" * VEHICLE CONVOY WET ** LINE	SIGN "ROADWAY MARKING" * VEHICLE CONVOY WET ** LINE	SIGN "WET PAINT/EPOXY" FREQUENT STOPS
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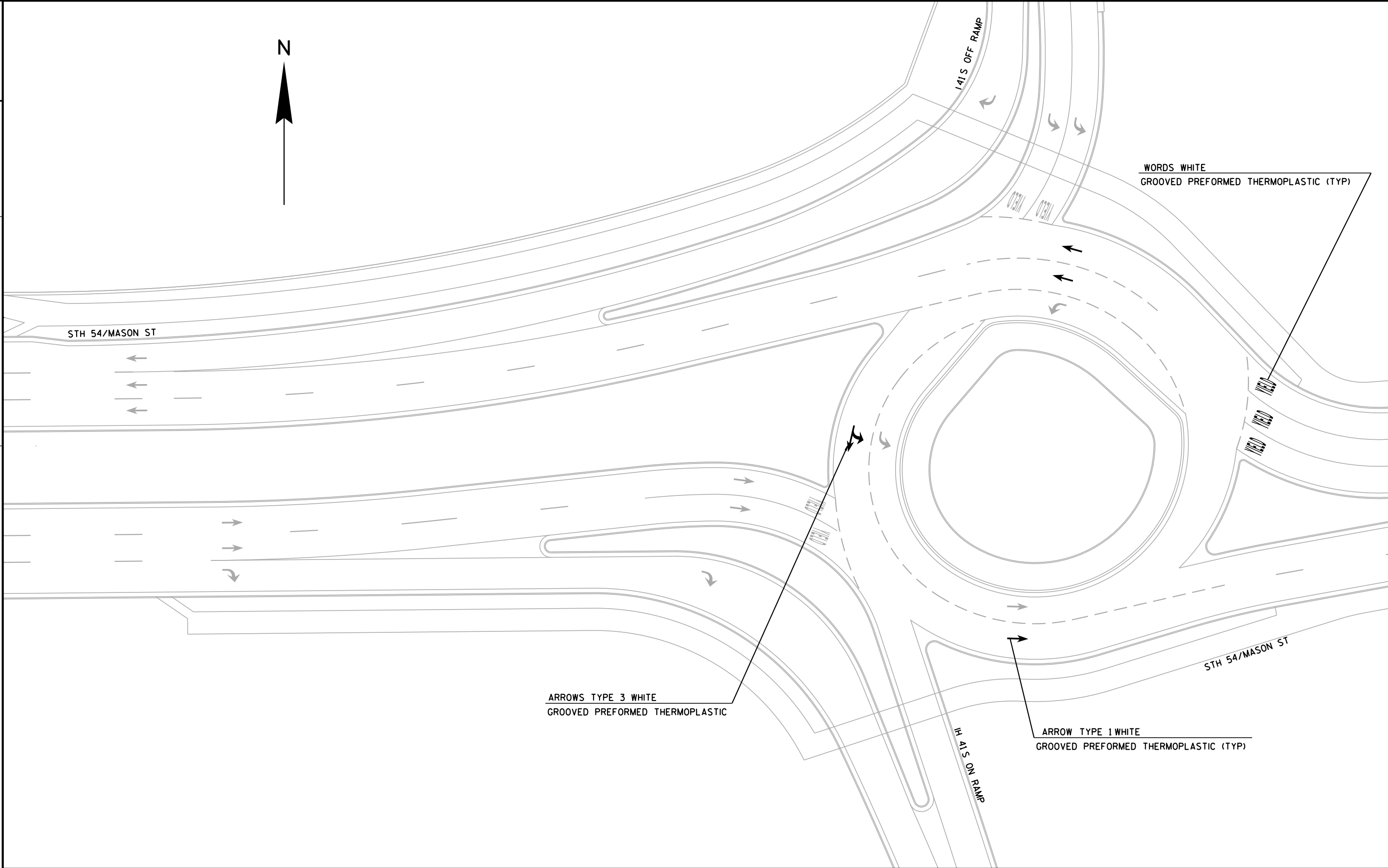
NOTE:

ALL VEHICLES SHALL HAVE FLASHING WARNING LIGHTS, FRONT AND REAR.

PAINT GUN CARRIAGES, RIGHT AND LEFT, SHALL HAVE FLASHING CLEARANCE MARKER LIGHTS, YELLOW TO THE FRONT AND RED TO THE REAR, ON THE OUTSIDE OF THE OUTRIGGER ASSEMBLY.

DIVIDED ROADWAYS
(ALL SIGNS AND ARROW BOARDS FACING REAR)

* NUMBER OF VEHICLES IN CONVOY
** COLOR OF MARKING MATERIAL



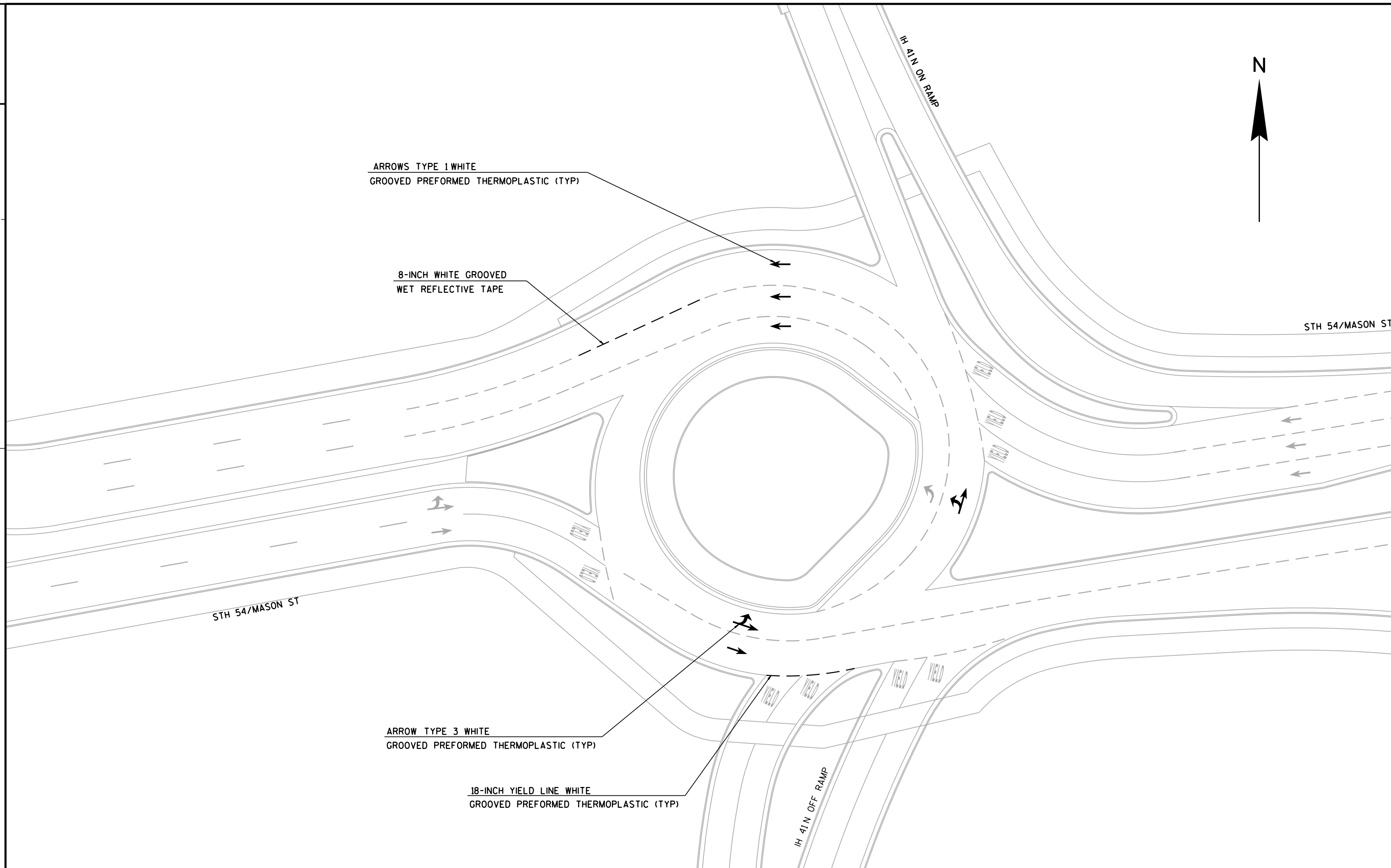


ARROWS TYPE 1 WHITE
GROOVED PREFORMED THERMOPLASTIC (TYP)

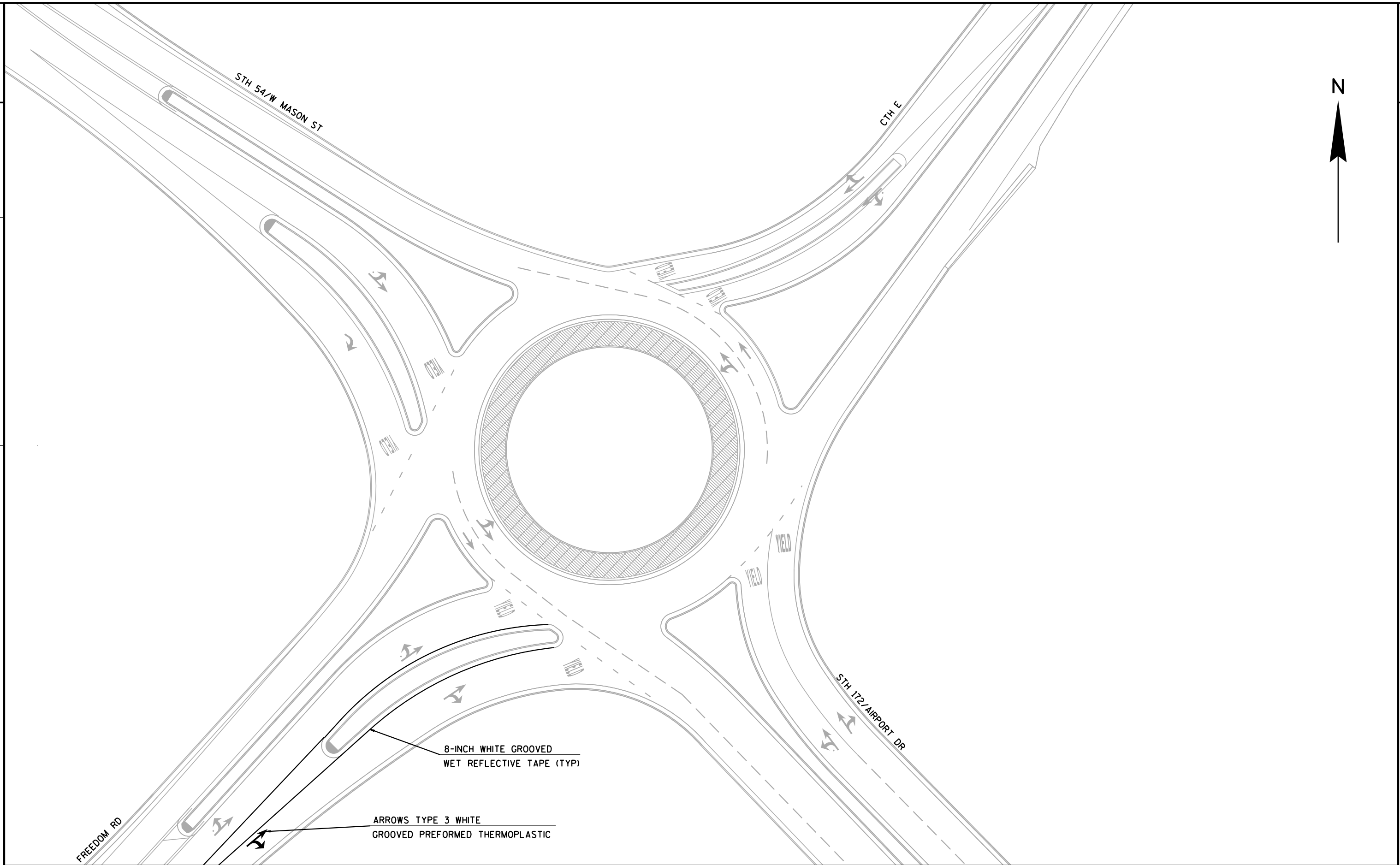
8-INCH WHITE GROOVED
WET REFLECTIVE TAPE

ARROW TYPE 3 WHITE
GROOVED PREFORMED THERMOPLASTIC (TYP)

18-INCH YIELD LINE WHITE
GROOVED PREFORMED THERMOPLASTIC (TYP)



N





ARROW TYPE 3 WHITE
GROOVED PREFORMED THERMOPLASTIC (TYP)

IH 41 SOUTH ON RAMP

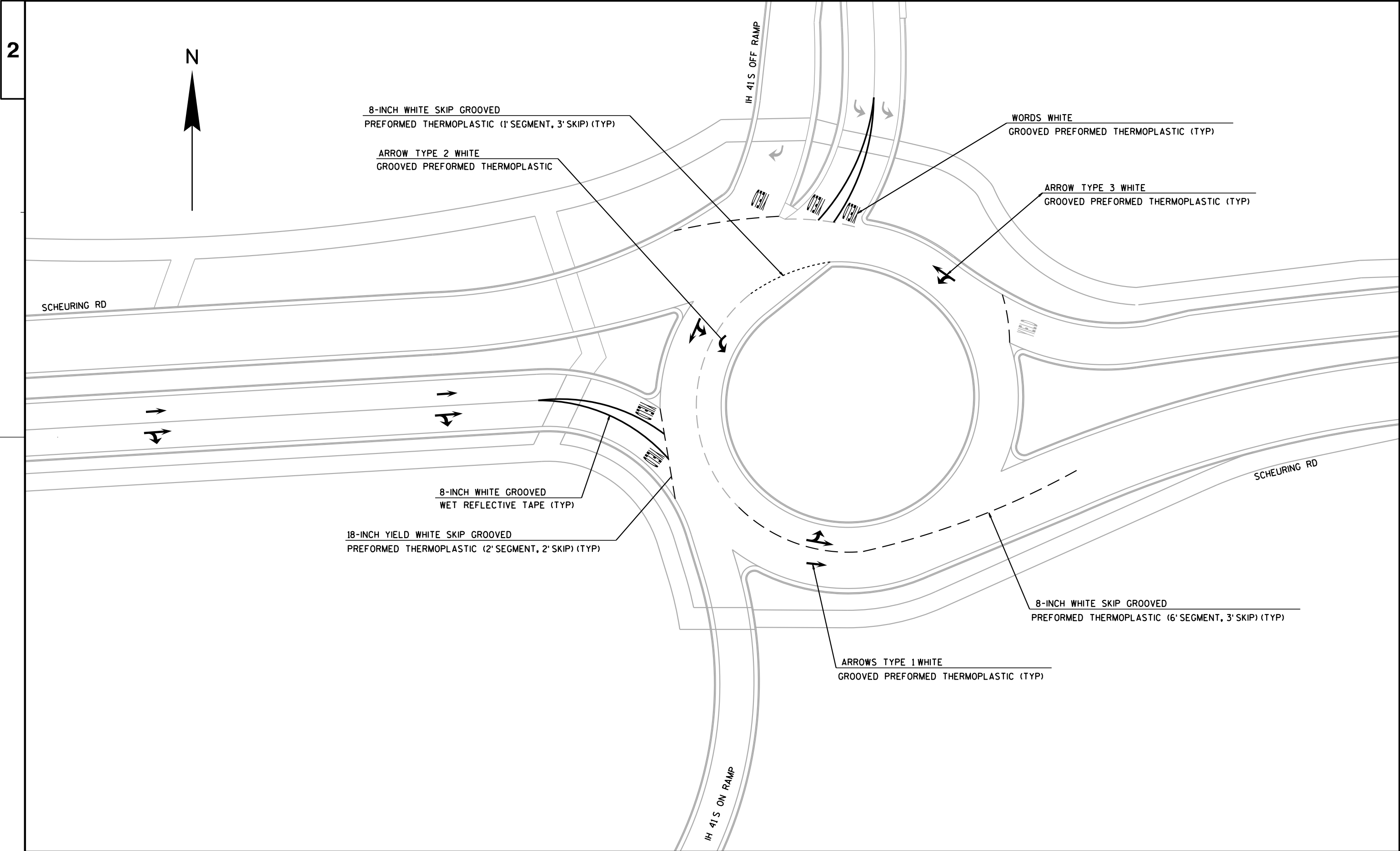
IH 41 NORTH OFF RAMP

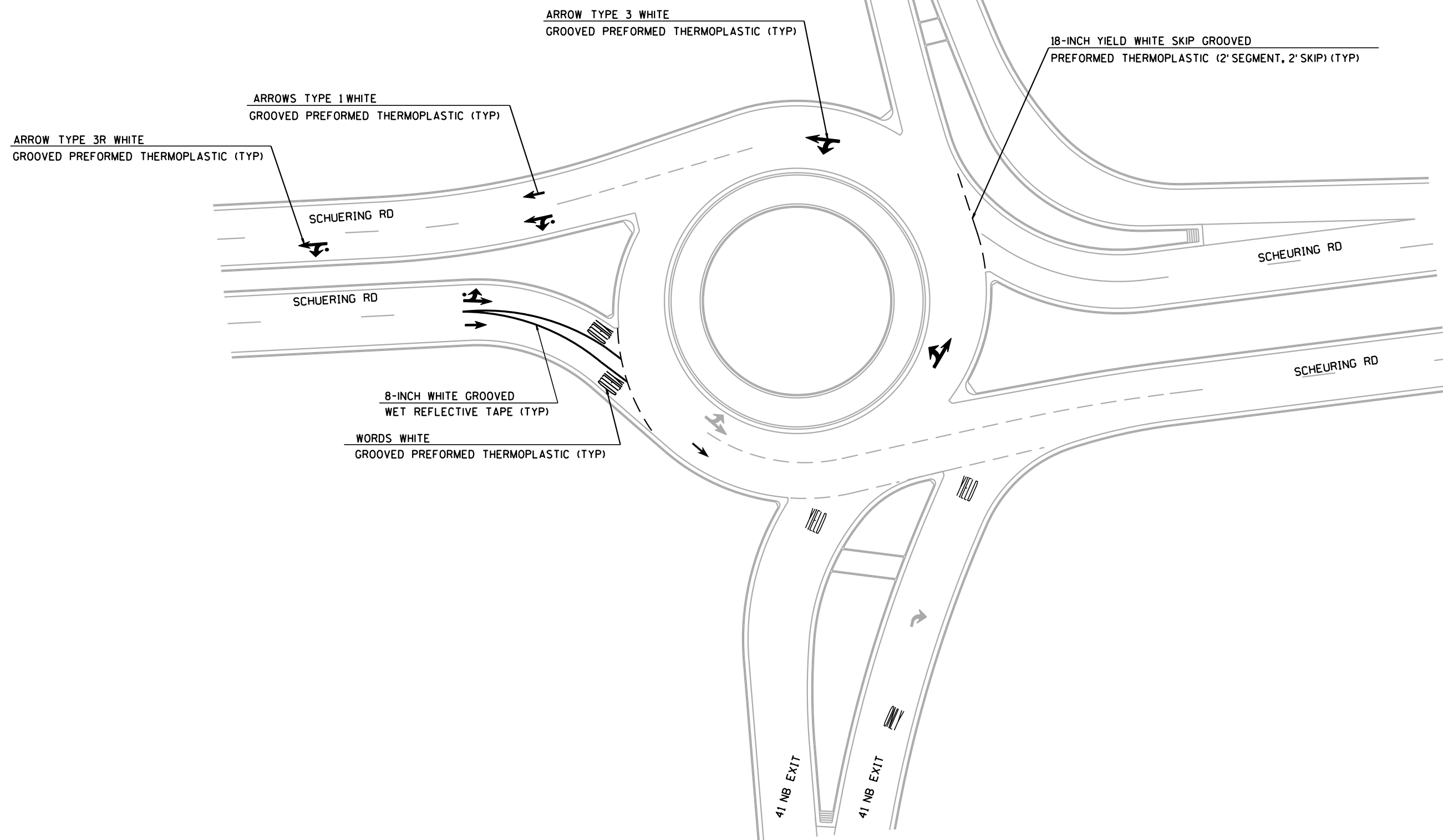
8-INCH WHITE GROOVED
WET REFLECTIVE TAPE (TYP)

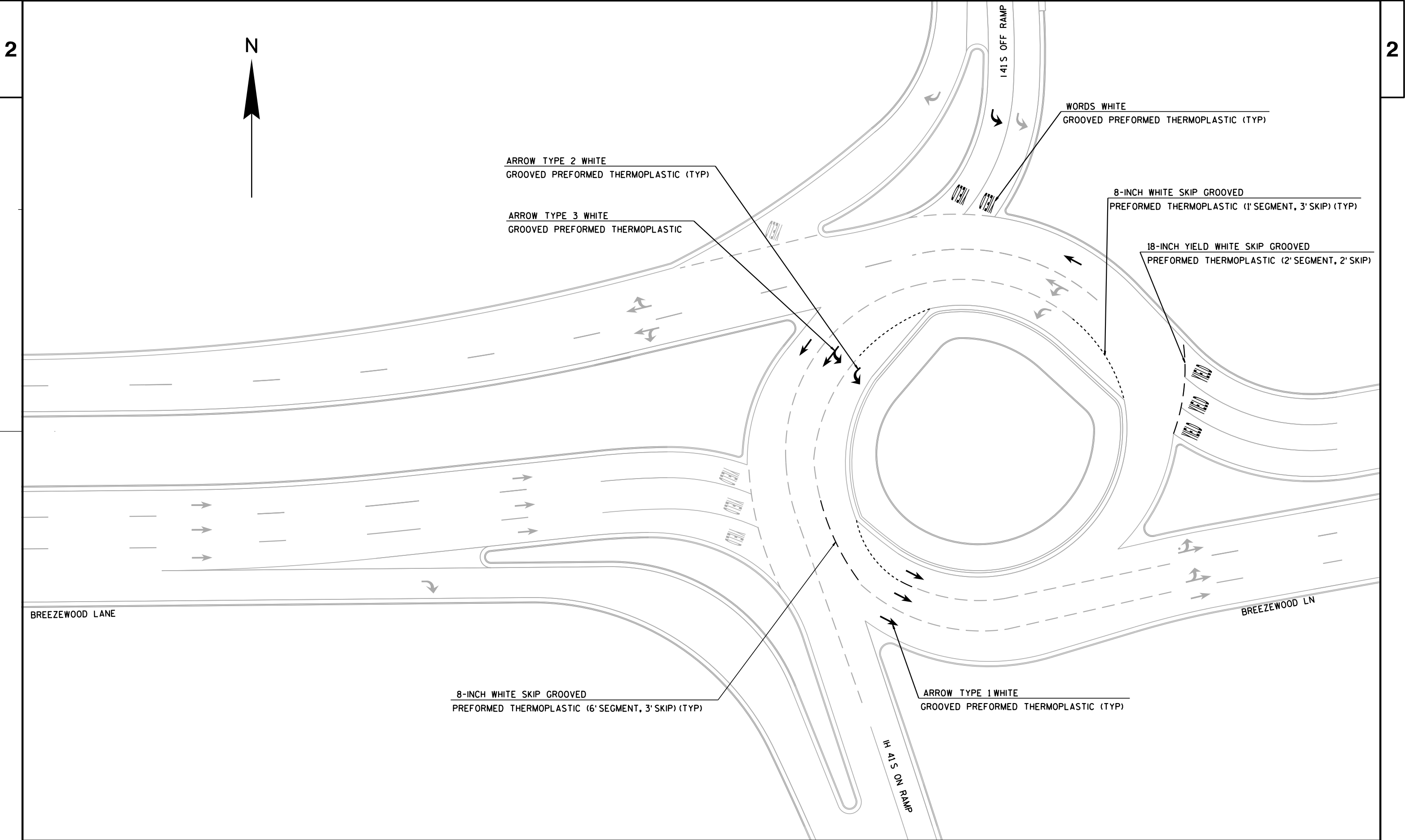
ASHLAND AVE

GLORY RD

N 8TH ST









ARROW TYPE 1 WHITE
GROOVED PREFORMED THERMOPLASTIC (TYP)

ARROW TYPE 3 WHITE
GROOVED PREFORMED THERMOPLASTIC (TYP)

ARROW TYPE 2R WHITE
GROOVED PREFORMED THERMOPLASTIC

8-INCH WHITE SKIP GROOVED
PREFORMED THERMOPLASTIC (6' SEGMENT, 3' SKIP) (TYP)

8-INCH WHITE SKIP GROOVED
PREFORMED THERMOPLASTIC (1' SEGMENT, 3' SKIP) (TYP)

WORDS WHITE
GROOVED PREFORMED THERMOPLASTIC

18-INCH YIELD WHITE SKIP GROOVED
PREFORMED THERMOPLASTIC (2' SEGMENT, 2' SKIP)

8-INCH WHITE SKIP GROOVED
PREFORMED THERMOPLASTIC (1' SEGMENT, 3' SKIP) (TYP)

BREEZEWOOD LANE

IH 41 N ON RAMP

IH 41 N OFF RAMP

ARROW TYPE 1 WHITE GROOVED
PREFORMED THERMOPLASTIC (TYP)

WORDS WHITE GROOVED
PREFORMED THERMOPLASTIC (TYP)

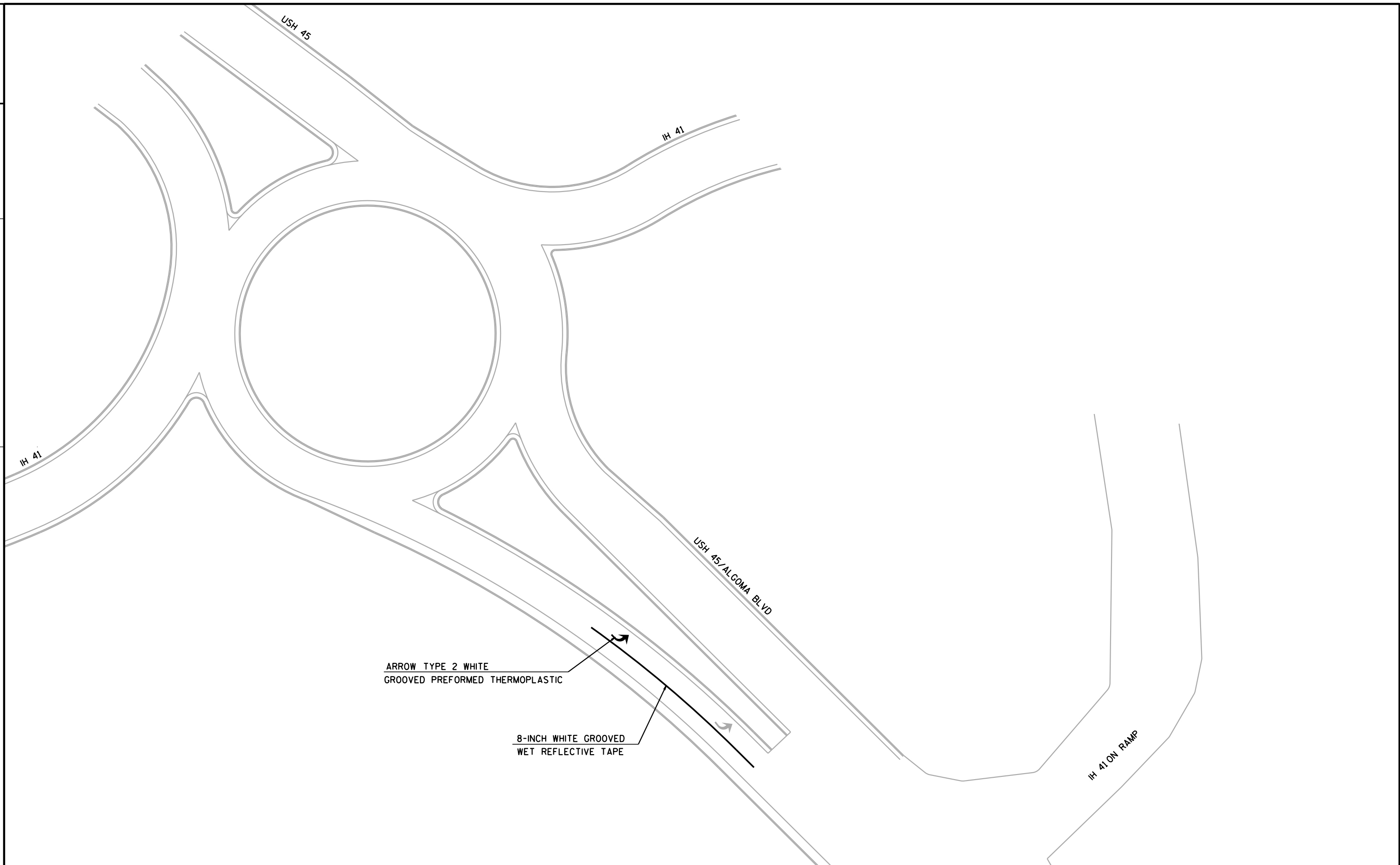
ARROW TYPE 3 WHITE GROOVED
PREFORMED THERMOPLASTIC (TYP)

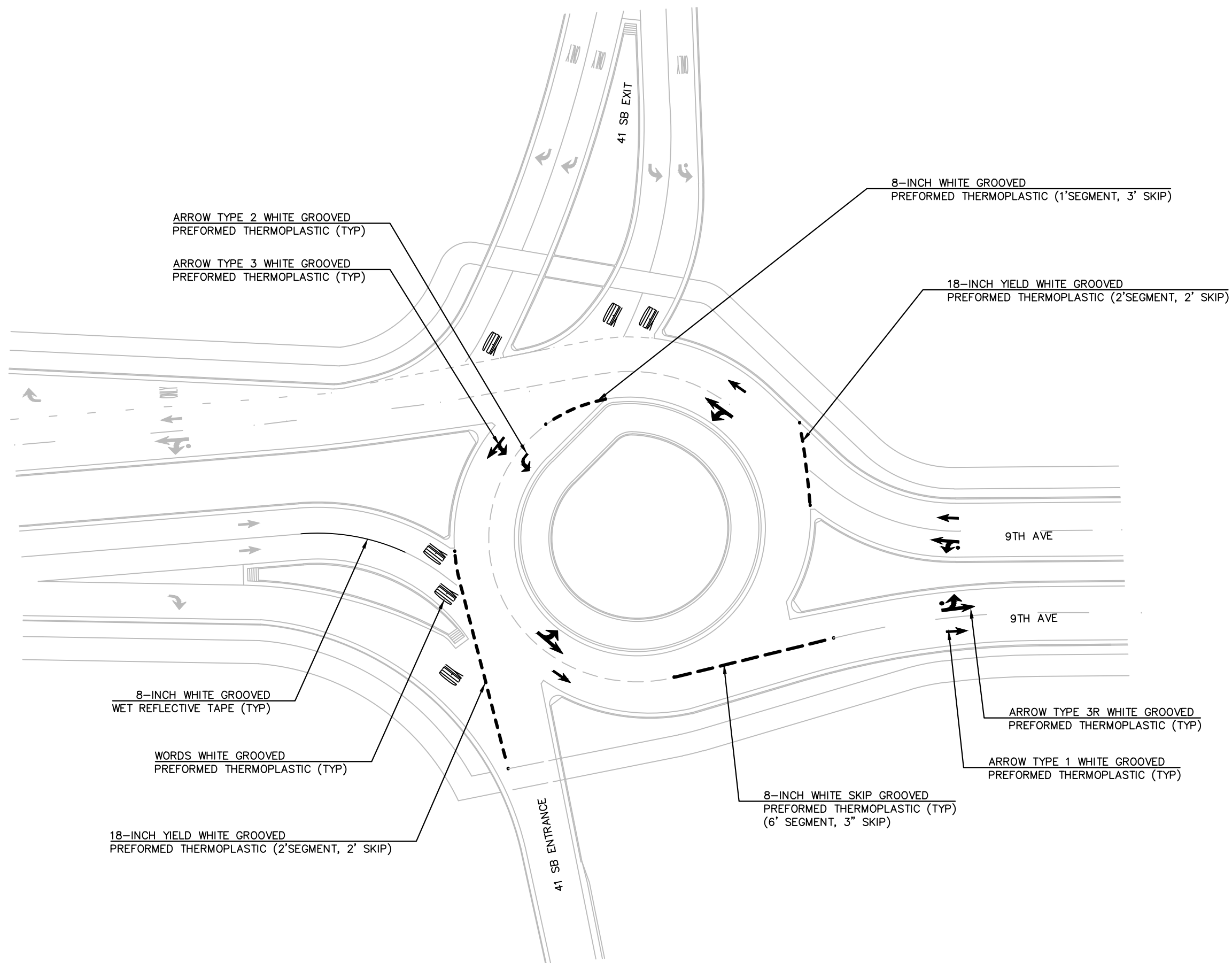
ARROW TYPE 2 WHITE GROOVED
PREFORMED THERMOPLASTIC (TYP)

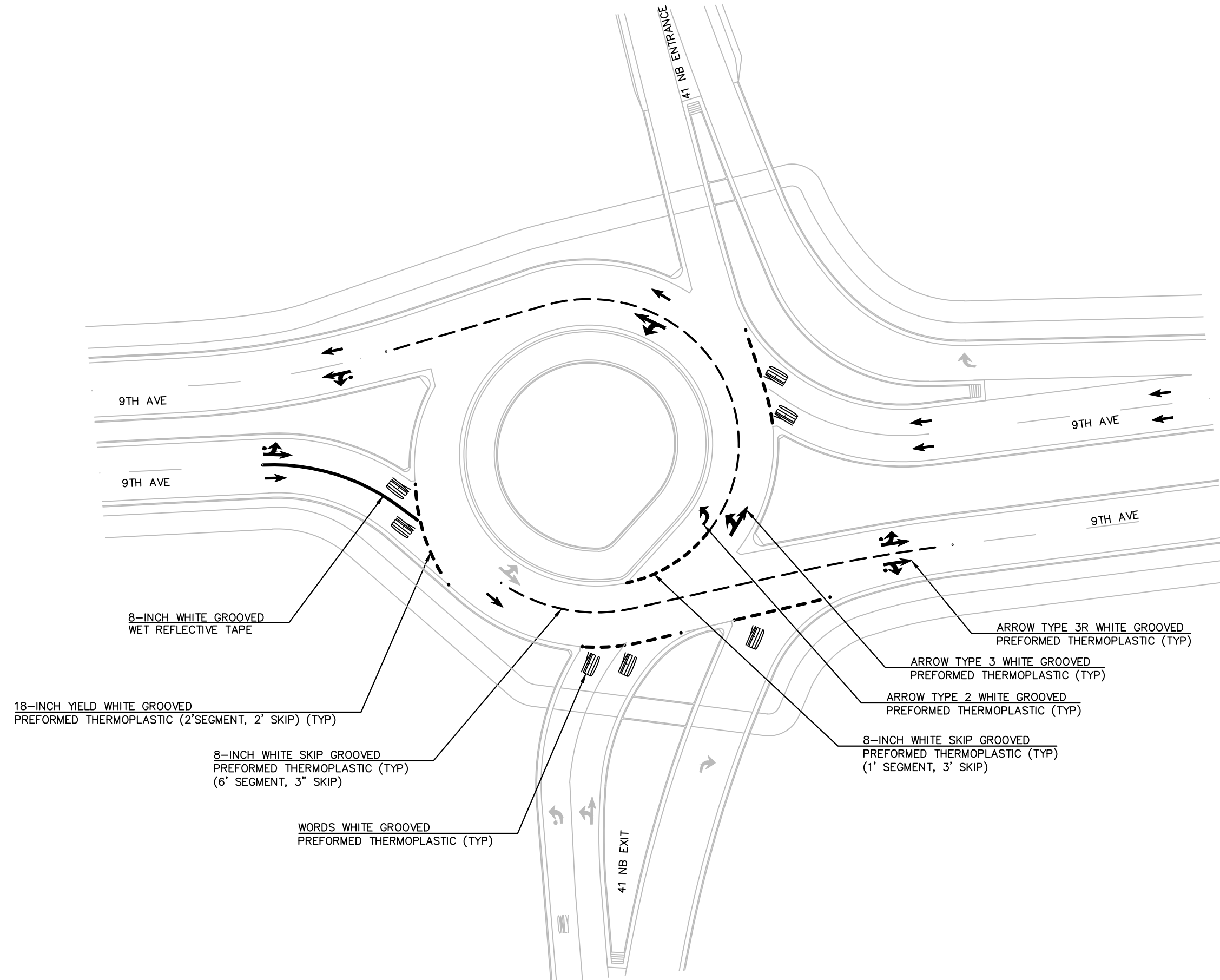
8-INCH WHITE SKIP GROOVED
PREFORMED THERMOPLASTIC (TYP)
(1' SEGMENT, 3' SKIP)

18-INCH YIELD WHITE GROOVED
PREFORMED THERMOPLASTIC (2' SEGMENT, 2' SKIP) (TYP)

8-INCH WHITE GROOVED
WET REFLECTIVE TAPE







DATE 11FEB16		E S T I M A T E O F Q U A N T I T I E S				
LINE					1009-33-16	
NUMBER	ITEM	ITEM DESCRIPTION	UNIT	TOTAL	QUANTITY	
0010	619.1000	Mobilization	EACH	1.000	1.000	
0020	643.0100	Traffic Control (project) 01.	EACH	1.000	1.000	1009-33-16
0030	646.0106	Pavement Marking Epoxy 4-Inch	LF	3,529,786.000	3,529,786.000	
0040	646.0126	Pavement Marking Epoxy 8-Inch	LF	126,825.000	126,825.000	
0050	646.0600	Removi ng Pavement Markings	LF	514,520.000	514,520.000	
0060	646.0841.S	Pavement Marking Grooved Wet Reflective Contrast Tape 4-Inch	LF	20,822.000	20,822.000	
0070	646.0843.S	Pavement Marking Grooved Wet Reflective Contrast Tape 8-Inch	LF	453.000	453.000	
0080	646.0883.S	Pavement Marking Grooved Wet Reflective Tape 8-Inch	LF	1,025.000	1,025.000	
0090	647.0156	Pavement Marking Arrows Epoxy Type 1	EACH	2.000	2.000	
0100	647.0166	Pavement Marking Arrows Epoxy Type 2	EACH	49.000	49.000	
0110	647.0176	Pavement Marking Arrows Epoxy Type 3	EACH	25.000	25.000	
0120	647.0196	Pavement Marking Arrows Epoxy Type 5	EACH	2.000	2.000	
0130	647.0356	Pavement Marking Words Epoxy	EACH	28.000	28.000	
0140	647.0526	Pavement Marking Yield Line Symbols Epoxy 18-Inch	EACH	6.000	6.000	
0150	647.0566	Pavement Marking Stop Line Epoxy 18-Inch	LF	970.000	970.000	
0160	647.0803	Pavement Marking Aerial Enforcement Bars Epoxy 24-Inch	LF	1,368.000	1,368.000	
0170	SPV.0060	Special 01. Pavement Marking Grooved Preformed Thermoplastic Arrows Type 1	EACH	37.000	37.000	
0180	SPV.0060	Special 02. Pavement Marking Grooved Preformed Thermoplastic Arrows Type 3R	EACH	9.000	9.000	
0190	SPV.0060	Special 03. Pavement Marking Grooved Preformed Thermoplastic Arrows Type 3	EACH	28.000	28.000	
0200	SPV.0060	Special 04. Pavement Marking Grooved Preformed Thermoplastic Words	EACH	41.000	41.000	
0210	SPV.0060	Special 05. Pavement Marking Grooved Preformed Thermoplastic Arrows Type 2	EACH	9.000	9.000	
0220	SPV.0060	Special 06. Pavement Marking Grooved Preformed Thermoplastic Arrows Type 2R	EACH	1.000	1.000	
0230	SPV.0090	Special 01. Pavement Marking Grooved Contrast Preformed Thermoplastic 8-Inch	LF	1,767.000	1,767.000	
0240	SPV.0090	Special 02. Pavement Marking Grooved Preformed Thermoplast Yield Line 18-In	LF	458.000	458.000	

PAVEMENT MARKING

LOCATION	LOG MILE	Mile	SOLID WHITE LF	646.0106 EPOXY 4-INCH DASHED WHITE LF	SOLID YELLOW LF	646.0126 EPOXY 8-INCH LF	REMARKS
STH 54 East STH 57 North		13.00					
From: University Way	38.00						CTH N (East Side Green Bay)
To: Gravel Pit Rd	51.00						Gravel Pit Rd (Bay Shore County Park)
STH 54 EB/STH 57 NB			60,000	17,015	62,000		Edge Line/Lane Line
Interchange @ Jct IH 43							Paint all Exit/Entry ramps at Interchange STH 54/57/IH 43
Exit Ramp/Gore IH 43 SB			3,650	100	1,500	600	From STH 54/57 To IH 43 SB
Entry Gore from IH 43 SB						1,450	On Main Line STH 54/57
Exit Ramp/Gore IH 43 NB			3,550	100	1,320	370	IH 43 North To Hwy 41/141
Entry Gore from IH 43 NB						1,400	On Main Line STH 54/57
CTH A Exit mini-dash/Gore				135		300	Exit Ramp Mini-dash/gore
CTH A Exit Ramp			2,450		1,125		Exit Ramp Edgelines
CTH A Entry Ramp/gore			3,150		1,700	1,320	Entry Ramp Edgelines/gore
Aerial Bars NB							Between CTH A and CTH EA (5 Sets)
CTH EA Exit mini-dash/Gore				135		660	Exit Ramp Mini-dash/gore
CTH EA Exit Ramp			675		715		Exit Ramp Edgelines
CTH EA Entry Ramp/gore			2,425		815	1,000	Entry Ramp Edgelines/gore/Mini dash-8-inch
Mini-dash-LL-8-inch						45	Mini dash-LL-8-inch extension from entry gore
STH 54 Exit mini-dash/gore				135		845	Exit Ramp Mini-dash/gore
STH 54 Exit Ramp			1,900		1,000		Exit Ramp Edgelines
STH 54 Entry Ramp			2,000		1,300	850	Entry Ramp to STH 57NB Edgelines/gore
LOCATION							
BEGIN STH 57 SOUTH BOUND			60,000	17,015	63,655		Edge Line/Lane Line
STH 54 Exit mini-dash/gore				135		320	Jct STH 54 WB Exit Mini-dash/gore
STH 54 EB Exit Ramp			2,000		1,720		Exit Ramp Edge Lines
STH 54 WB STH 57 SB Entry Ramp			2,000		700	2,000	Entry Ramp Edge Lines/gore
LOCATION							
STH 54 West STH 57 South							Jct STH 54 East
CTH EA Exit Mini-dash/gore				35		740	CTH EA Exit
CTH EA Exit Ramp			2,510		1,000		CTH EA Exit ramp edgelines
CTH EA Exit Ramp						325	CTH EA Exit ramp
CTH EA Entry Ramp			1,765		1,000	950	CTH EA Entry Ramp Edgelines/entry gore
Mini-dash-LL-8-inch						75	Mini dash-LL-8-inch extension from entry gore
CTH A Exit Mini-dash/gore			1,810	135	930	400	CTH A Exit ramp mini-dash/edgelines/gore
CTH A Entry Ramp edgelines/gore			1,050		725	520	CTH A Entry Ramp edgelines/entry gore
CTH A Mini-dash-LL-8-Inch						425	From CTH A Entry gore to Exit IH 43 NB Gore
IH 43 NB/SB Exit gore						750	Exit Gore
IH 43 NB Exit Ramp			3,310		2,100		Exit Ramp edge lines
8" Gore on Ramp from IH 43						1,100	Entry Gore
IH 43 SB Exit Mini-dash/gore				135		430	Exit Mini-dash/gore
IH 43 SB Exit Ramp			3,345		1,200		Exit Ramp edgelines
Left Turn CTH N						100	Left Turn Bay CTH N
SUB-TOTALS			157,590	35,075	144,505		
TOTALS				337,170		16,975	

PAVEMENT MARKING SUMMARY

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 22		7					
From: Gillett	5.40						North Mc Kenzie Ave
To: Oconto Falls	12.30						Highland Dr
North Bound			40,600		42,050		Edge Line/Center Line
RAB N Jct STH 32							
CTH K						200	Rt Turn
CTH B				65			Bypass Ln
South Bound			40,350				Edge Line/Center Line
CTH B						370	Rt Turn
CTH K						200	Rt Turn
CTH G						150	Rt Turn
Richmond St				75			Bypass Ln
S Jct STH 32						200	Gore @ Split STH 22/32
S Jct STH 32							FIELD CK STOP BAR
SUBTOTAL			80,950	140	42,050		
TOTAL			123,140			1,120	

LOCATION	LOG MILE	Mile	646.0106 EPOXY 4-INCH		646.0126	REMARKS
			SOLID WHITE LF	SOLID YELLOW LF	EPOXY 8-INCH LF	
STH 32		15.50				
From: STH 160	89.00					Pulaski
To: STH 22	104.50					Jct STH 32/STH 22 RAB
North Bound			74,870	44,935		Center Line/Edge Line
CTH E					200	Rt Turn
South Bound			79,100			Edge Line
CTH E					200	Rt Turn
SUB-TOTALS			153,970	44,935		
TOTAL			198,905		400	

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 49		1.75					
From: Brandon	15.55						
To: Jct STH 44	17.30						
North Bound			9,600		7,225		Edge Line/Center Line
Brandon Rd						90	Right Turn
Jct STH 44				65			Bypass Ln STH 44
South Bound			9,600				Edge Line
Brandon Rd						85	Right Turn
SUBTOTAL			19,200	65	7,225		
TOTAL			26,490			175	

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 41		21.00					
From: Frog Pond Rd	108.30						Oconto
To: Flame Rd	128.95						Pvmnt Change 2,800 L.F. N. of Flame Rd
North Bound			97,650		107,500		Main Line Edge Lines
Exit Business 41			2,165	50	1,750		Exit Dashes/Exit Ramp Edge Lines
Exit Ramp STH 22			1,650	50	1,165		Exit Ramp Edge Lines
Enterance Ramp STH 22			3,850		1,530		Enterance Ramp Edge Lines
Enterance Ramp Brazeau Ave			3,275		1,215		Enterance Ramp Edge Lines
Exit Business 41/CTH Y			1,690	50	1,165		Exit Ramp Edge Lines
Maple Grove School Rd						1,650	Lt Turn Gore/Rt Turn
CTH A						425	Rt Turn
CTH A						1,585	Lt Turn Gore/Rt Turn
Woodview Ln						1,635	Lt Turn Gore/Rt Turn
La Fortune Ln						475	Lt Turn
CTH W						1,060	Lt/Rt Turns
Votava Ln						425	Lt Turn
Fifrick Ln						950	Lt/Rt Turns
Drees Rd						900	Lt/Rt Turns
Rodney Ln						425	Lt/Rt Turns
CTH M						740	Lt/Rt Turns
Koronkiewicz Ln						475	Rt Turn
Kasal Ln						1,585	Lt Turn Gore/Rt Turn
Exit USH 41 Business/CTH Y			1,690	50	1,750		Exit Ramp Edge Lines
Enterance Business 41/CTH Y			3,170		1,320		Enterance Ramp Edge Lines
Exit Peshtigo/Schacht Rd			1,060	50	1,690		Exit Ramp Edge Lines
Enterance Peshtigo/Schacht Rd			3,325		1,425		Enterance Ramp Edge Lines
South Bound			98,600		107,600		Main Line Edge Lines
Exit Peshtigo/Schacht Rd			2,165	50	1,650		Exit Dashes/Exit Ramp Edge Lines
Enterance Peshtigo/Schacht Rd			3,325		1,585		Enterance Ramp Edge Lines
Exit CTH Y			1,635	50	845		Exit Dashes/Exit Ramp Edge Lines
Enterance CTH Y			3,115		1,165		Enterance Ramp Edge Lines
Kasal Ln						1,745	Lt Turn Gore/Rt Turn
Acceleration Ln						845	Acceleration Ln @ Kasal Ln
Koronkiewicz Ln						425	Lt Turn
CTH M						900	Lt/Rt Turns
Rodney Ln						425	Median Lt Turn
Drees Rd						850	Lt/Rt Turns
Fifrick Ln						950	Lt/Rt Turns
Votava Ln						370	Rt Turn
CTH W						950	Lt/Rt Turns
LAFORTUNE LA						425	Rt Turn
Woodview Ln						1,585	Lt Turn Gore/Rt Turn
CTH A						1,530	Lt Turn Gore/Rt Turn
CTH A						425	Lt Turn
Maple Grove School Rd						1,480	Lt Turn Gore/Rt Turn
Exit Business 41/CTH S			2,800	50	2,430		Exit Dashes/Exit Ramp Edge Lines
Exit STH 22			2,960	135	2,000		Exit Dashes/Exit Ramp Edge Lines
Enterance STH 22			2500 ?		1,800		Enterance Ramp Edge Lines
Enterance Smith Ave			2,760		1,500		Enterance Ramp Edge Lines
SUB-TOTALS			236,885	535	241,085		
TOTALS				478,505		25,235	

PAVEMENT MARKING															
LOCATION	LOG MILE	Mile	646.0106 EPOXY 4-INCH SOLID WHITE LF	DASHED WHITE LF	SOLID YELLOW LF	646.0126 EPOXY 8-INCH LF	647.0566 Stop Line Epoxy 18-Inch LF	647.0803 Aerial Enforcement Epoxy 24-Inch LF	647.0196 Arrows Epoxy Type 5 Each	647.0166 Arrows Epoxy Type 2 Each	647.0156 Arrows Epoxy Type 1 Each	647.0356 Words Epoxy (Only) Each	647.0176 Arrows Epoxy Type 3 Each	647.0526 Yield Line Symbols Epoxy Each	REMARKS
STH 172		12.00													
From: STH 54	0.00														
To: IH 43	11.65														
East Bound			44,225		15,500										Edge Line/Center Line
Left Edge Line					44,565										Lt Edge Line
S.Overland Dr						100									Rt Turn
Oneida Health Center						200									Rt Turn
Woodland Center				75											Bypass Ln
Begin Divided Section				3,850											Lane Line to I 41 Overpass
South Point Rd						175									Rt/Lt Turn
CTH EB/Packerland Dr						625	50								Lt Turn Gore/Rt Turn/Stop Bar
Babcock Rd						570	50								Lt Turn Gore/Rt Turn/Stop Bar
East Bound 172 Exit to SB I 41			4,125	125	1,950	635									I 41 Exit Gore/Tape?/Ramp edge lines
East Bound 172 Exit to NB I 41			4,700		4,000										I 41 Gore? @ Split NB/SB 41
Exit Oneida/Ashland Ave/STH 32			1,250		1,050	80									Ramp Edge Lines/Gore Btm of ramp
Enter From Vanderperren Way			1,725		900	790									Edge Lines/Gores from Vanderperren
Exit Webster Ave/Riverside Dr/57				125		320									Exit Mini Dash/Exit Gore
Exit Ramp to Riverside			3,250	75	1,150	360									Edge Lines/Gores/Lane Line
Exit Ramp to Webster Ave			930	250	1,625										Ramp Edge Lines/Lane Line
Exit Ramp to Webster Ave						225	45			4	2	3			Top of ramp @ Webster Ave
On Ramp from Riverside to Webster			2,160		1,680									6	Edge Lines/ Yield symbols See SDD 15C20
On Ramp From Webster Ave			2,250	150	1,000				2						Ramp Edge Lines/Lane Line/Lane Drop Arrow
Exit CTH GV			1,765		1,265	550				4		2	2		Ramp Edge Line/Bottom of ramp
Enter CTH GV			2,470		1,200										Ramp Edge Lines
Exit to I 43 South Bound			4,275	700	3,645										Ramp Edge Lines/Lane Lines
Exit to I 43 North Bound			5,250		5,075										Ramp Edge Lines
West Bound			50,100	3,850	42,775										Edge Lines
On Ramp from I 43 North Bound			4,275		5,280										Ramp Edge Lines
On Ramp from I 43 South Bound			5,825	850	4,500										Ramp Edge Lines/ lane line tape?
Exit CTH GV			1,535		1,220										Ramp Edge Lines
Enter CTH GV			2,550		1,450										Ramp Edge Lines
Exit Ramp to Webster Ave			1,730	45	1,120										Mini dash/Ramp Edge Lines
Exit Ramp to Webster Ave						235	45			2		1	2		Top of Ramp/arrows/only/Lane Divide
Enter From Webster Ave to 172			965		160	400									Ramp Edge Lines
From Webster Ave to Riverside			2,125		1,635	200									Edge Lines Gores @ Webster/Btm of Ramp
Enterance From Riverside Dr			1,130		825										Ramp Edge Lines
Exit Oneida/Ashland Ave/STH 32			1,200		785	140									Ramp Edge Lines/Btm of ramp markings
Exit Oneida/Ashland Ave/STH 32				50											Dual Turn to Pilgram Way
On Ramp from Pilgram			800		1,220										Ramp Edge Lines
West Bound 172 Exit to NB I 41			2,200		1,250										Ramp Edge Lines
West Bound 172 Exit to SB I 41			3,920		3,680										Ramp Edge Lines
On Ramp From I 41 SB			3,400		985	1,140									Ramp Edge Lines/Gore
Babcock Rd						950	60			2		2			Arrows/Onlys/Gore/Turn Lane/Stop Bar
CTH EB/Packerland Dr						675	60			2		2			Arrows/Onlys/Gore/Turn Lane/Stop Bar
South Point Rd						350									Gore/Turn Lane
Woodland Center						75									Rt Turn
Oneida Health Center				65											Bypass Ln
Aerial Enforcement Bars															Aerial Enforcement Bars
East Bound								60							5 Sets Begin Ashland Ave Overpass
West Bound								84							7 Sets Begin Webster Ave On Ramp
SUB-TOTALS			160,130	10,210	151,490										
TOTALS				321,830		8,795	310	144	2	14	2	10	4	6	
PROJECT NO: 1009-33-16		HWY: VARIOUS				COUNTY: REGIONWIDE				MISCELLANEOUS QUANTITIES					SHEET:
															E

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 141		8.30					
From:Jct USH 41	12.00						Abrams
To: Lemere Rd	20.32						Const Joint 900 L.F.South of Lemere Rd
North Bound			42,800		43,600		Edgelines/Lane Line
Forest Lake Rd						110	Left Turn Median
Norway Woods La						240	Left/Right Turns
Liegeois Rd						415	Left/Right Turns
East Stiles Tower Rd						135	Left Turn Median
Kruegers Quarry Rd						425	Left/Right Turns
Timber Line Rd						200	Left Turn Median
Chicken Shack Rd						200	Left/Right Turns
CTH I						510	Left/Right Turns
STH 22 Exit				35			White-Mini dash at Exit
STH 22 Exit Gore						530	Exit Gore
STH 22 Exit Ramp			1,675		1,250		Ramp Edgelines
STH 22 On Ramp			2,425		1,040		Ramp Edgelines
STH 22 Entry Gore						1,160	Entry Gore
MC Carthy Rd						400	Left/Right Turns
Lemere Rd						835	Left/Right Turns
South Bound			40,000		43,500		Edgelines/Lane Line
Lemere Rd						710	Exit Gore
MC Carthy Rd						360	Left/Right Turns
STH 22 Exit				35			White-mini dash at Exit
STH 22 Exit Gore						530	Exit Gore
STH 22 Exit Ramp			1,675		1,245		Ramp Edgelines
STH 22 On Ramp			2,300		1,100		Ramp Edgelines
STH 22 Entry Gore						1,270	Entry Gore
CTH I						775	Left/Right Turns
Chicken Shack Rd						280	Left/Right Turns
Timber Line Rd						450	Left/Right Turns
Kruegers Quarry Rd						200	Left Turn Median
East Stiles Tower Rd						200	Left Turn Median
Liegeois Rd						210	Left Turn Median
Norway Woods La						200	Left/Right Turns
Forest Lake Rd						200	Left/Right Turns
CTH E						210	Right Turn
SUB-TOTALS			90,875	70	91,735		
TOTALS				182,680		10,755	

PAVEMENT MARKING SUMMARY

LOCATION	LOG MILE	MILE	646.0106 EPOXY 4-INCH			646.0126	647.0566	REMARKS
			SOLID WHITE LF	DASHED WHITE LF	SOLID YELLOW LF	EPOXY 8-INCH LF	Stop Line EPOXY 18-INCH LF	
STH 44		10						
From: Winn/FDL Co Line	17.00							Winnebago South County Line
To: East Ramps USH 41	26.90							East Ramps USH 41 Oshkosh
North Bound								
Edge Line/Center Line			47,500		49,000			Center Line Edge Line W/Rumble Strip
Bonnieview Rd						210		Rt Turn
S Jct CTH FF						210		Rt Turn
Crown Dr				65				Bypass Ln
Knott Rd				65				Bypass Ln
Ripon Pl						210		Rt Turn
James Rd						210		Rt Turn
N Jct Ripon Pl						210		Rt Turn
Clairville Rd						210		Rt Turn
N Clay Rd						210		Rt Turn
STH 91 to East Ramps USH 41				1,350		210		Lane Line/Left Turn
Universal St						100		Left Turn
Washburn St						425	50	Lt/Rt Turns Stop Line
USH 41 South Bound Ramp						210	30	Rt Turn
USH 41 NB On Ramp						580	50	Left Turn/Stop Bar
South Bound								
Lane Line				1,350				East Ramps USH 41 to STH 91
USH 41 South Bound			47,500				50	Edge Line W/Rumble Stop Bar
Washburn St						420		Lt/Rt Turn/Stop Bar
Universal St						150		Left Turn
STH 91						100		Left Turn
N Clay Rd				65				Bypass Ln
James Rd						175		Rt Turn
Knott Rd						150		Rt Turn
Crown Dr						210		Rt Turn
CTH FF						210		Rt Turn
Utica Rd				65				Bypass Ln
Burr Oak Rd						210		Rt Turn
Banville Rd						200		Rt Turn
Bonnie View Rd						150		Rt Turn
CTH N						75		Bypass Ln
Hillside Rd						150		Rt Turn
Hillside Rd						150		Rt Turn
Mahlke Rd				65				Bypass Ln
SUBTOTAL			95,000	3,025	49,000			
TOTAL				147,025		5,345	180	

PAVEMENT MARKING

LOCATION	LOG MILE	Mile	646.0106 EPOXY 4-INCH		646.0126	647.0566	REMARKS
			SOLID WHITE LF	SOLID YELLOW LF	EPOXY 8-INCH LF	STOP LINE EPOXY 18-INCH L.F.	
STH 42		19.00					
From: Howards Grove	7.50						Jct STH 32/42
To: Manitowoc	26.10						Jct USH 151
North Bound			92,925	106,725			Center Line/Edge Line
S CLEVELAND RD					100		Rt Turn
W WASHINGTON RD					100		Rt Turn
S JCT CTH XX					160		Rt Turn
N JCT CTH XX					100		Rt Turn
CTH X					100		Rt Turn
UCKER POINT CREEK RD					100		Rt Turn
CTH F					100		Rt Turn
NEWTON RD					100		Rt Turn
BRUNNER RD					100		Rt Turn
CTH C					200		Rt Turn
S Union Rd					100		Rt Turn
CARSTENS LAKE RD					100		Rt Turn
CARSTENS RD					100		Rt Turn
ENGLISH LAKE RD					100		Rt Turn
NEWTONBERG RD					100		Rt Turn
GASS LAKE RD					100		Rt Turn
Jct USH 151						25	Jct USH 151 Manitowoc
South Bound			92,300				Edge Line
VICTORIA RD					100		Rt Turn
NEWTONBERG RD					100		Rt Turn
CENTER RD					100		Rt Turn
NEWTONBERG RD					100		Rt Turn
CARSTENS LAKE RD					100		Rt Turn
S Union Rd					100		Rt Turn
CTH C					160		Rt Turn
PINE RIVER RD					100		Rt Turn
NEWTON RD					100		Rt Turn
CTH F					100		Rt Turn
UCKER POINT CREEK RD					100		Rt Turn
CTH X					100		Rt Turn
PIONEER RD					100		Rt Turn
N JCT CTH XX					160		Rt Turn
S JCT CTH XX					100		Rt Turn
W WASHINGTON RD					100		Rt Turn
S CLEVELAND RD					100		Rt Turn
SUB-TOTALS			185,225	106,725			
TOTALS			291,950		3,580	25	

PAVEMENT MARKING

LOCATION	LOG MILE	Mile	SOLID WHITE LF	646.0106 EPOXY 4-INCH DASHED WHITE LF	SOLID YELLOW LF	646.0126 EPOXY 8-INCH LF	647.0803 Aerial Enforcement Epoxy 24-Inch LF	REMARKS
IH 43		7.00						
From: STH 42	17.70							STH 42 Exit 128
To: Manitowoc Co Line	24.75							Manitowoc/Sheboygan Co Line
North Bound								
Main Line			36,200	9,550	38,300			Edge Lines/Lane Line
CTH XX Exit Ramp			1,980	35	1,300	685		Exit Ramp Gore/Edge Lines/Top of Ramp Gore
CTH XX On Ramp			2,170		950	1,365		On Ramp Gore/Edge Lines
South Bound								
Main Line			36,200	9,550	38,300			Edge Lines/Lane Line
CTH XX Exit Ramp			1,530	35	1,060	630		Exit Ramp Gore/Edge Lines
CTH XX On Ramp			2,270		1,000	1,335		On Ramp Gore/Edge Lines
STH 42 Exit Ramp			1,800	35	1,215	750		Exit Ramp Gore/Edge Lines
North Bound								Manitowoc County
Aerial Enforcement Bars								Aerial Enforcement Bars
South of CTH XX							60	5 SETS
Off Ramp to CTH XX							24	2 SETS
On Ramp From CTH XX							24	2 SETS
South of CTH C							48	4 SETS
USH 151 Off Ramp							24	2 SETS
USH 151 On Ramp							24	2 SETS
South Bound								Manitowoc County
Aerial Enforcement Bars								Aerial Enforcement Bars
USH 151 Off Ramp							24	2 SETS
USH 151 On Ramp							24	2 SETS
North of CTH C							60	5 SETS
North of CTH XX							60	5 SETS
Off Ramp to CTH XX							24	2 SETS
On Ramp From CTH XX							24	2 SETS
North Of STH 42							60	5 SETS
SUB-TOTALS			82,150	19,205	82,125			
TOTALS				183,480		4,765	480	

PAVEMENT MARKING

LOCATION	LOG MILE	MILE	SOLID WHITE LF	646.0106 EPOXY 4-INCH DASHED WHITE LF	SOLID YELLOW LF	646.0126 CHANNELIZING EPOXY 8-INCH LF	647.0166 ARROWS EPOXY TYPE 2 EACH	647.0176 ARROWS EPOXY TYPE 3 EACH	647.0356 WORDS EPOXY (ONLY) EACH	647.0566 STOP LINE EPOXY 18-INCH L.F.	REMARKS
IH 43		7.00									
From: IH 172	69.40										
To: Leo Frigo Bridge	76.50										
North Bound			29,500	8,675	34,300						Edgelines/laneline
STH 172 West Bound				50		750					Exit Gore/mini dash
STH 172						1,500					Entry Gore
MINI-DASH 8 INCH						400					STH 172 to CTH JJ
CTH JJ						950					Exit Gore
CTH JJ			2,000		1,300						Exit Ramp Edge Lines
CTH JJ			3,200		1,750						Entry Ramp Edge Lines
CTH JJ						1,500					Entry Gore
East Mason						645					Exit Gore
East Mason (Exit Ramp)			1,500		1,050	1,165	4	2	2		Exit Ramp
East Mason (On Ramp)			2,245		855	1,385					Entry Ramp/Gore
STH 54/57				130		635					Exit Gore
STH 54/57						1,500					Entry Gore
STH 54WB/57SB						1,585					Entry Gore
South Bound			29,775	10,300	37,675						Edgelines
STH 54/57				130		435					Exit Gore/mini dash
STH 54 WB /57 SB						1,480					Entry Gore
STH 54 EB/57 NB						1,480					Entry Gore
East Mason St						645					Exit Gore
East Mason (Exit Ramp)			1,570		1,080	825	4	2	2	30	Exit Ramp
East Mason (On Ramp)			870		2,100						Entry Ramp Edge Lines
East Mason						1,480					Entry Gore
CTH JJ						645					Exit Gore
CTH JJ			2,000		1,300						Exit Ramp Edge Lines
CTH JJ			2,200		1,300						Entry Ramp Edge Lines
CTH JJ						1,585					Entry Gore
STH 172 West Bound						950					Exit Gore
STH 172						1,300					Entry Gore
SUBTOTAL			74,860	19,285	82,710						
TOTAL				176,855		22,840	8	4	4	30	

PAVEMENT MARKING SUMMARY

LOCATION	LOG MILE	MILE	646.0106 EPOXY 4-INCH			646.0126 EPOXY 8-INCH LF	REMARKS
			SOLID WHITE LF	DASHED WHITE LF	SOLID YELLOW LF		
STH 54		8					
From: New London	0.00						Waupaca/Outagamie Co Line
To: Shiocton	8.10						Jct STH 76 North Bound Shiocton
East Bound			42,150		19,826		Edgeline/Centerline
County line to End Divided			2,500	700	2,500		Lane Line/Edge Line Left
USH 45 NB						100	Right Turn
West Bound			42,000				Edgeline
Begin Divided				625			Lane Line
CTH S						100	Left Turn
USH 45 North Bound						100	Left Turn
Frontage Rd						100	Left Turn
SUBTOTAL			86,650	1,325	22,326		
TOTAL				110,301		400	

LOCATION	LOG MILE	MILE	646.0106 EPOXY 4-INCH		646.0126 EPOXY 8-INCH LF	REMARKS
			SOLID WHITE LF	SOLID YELLOW LF		
STH 55		1.50				
From: Sherwood	14.45					West Jct STH 114
To: USH 10	15.90					RAB Jct USH 10
North Bound						
Edge Line/Center Line			7,660	4,650		Edge Line/Center Line
Schaefer Rd					100	Rt Turn
South Bound						
Edge Line			8,050			Edge Line
Schaefer Rd					100	Rt Turn
SUB-TOTALS			15,710	4,650		
TOTALS			20,360		200	

LOCATION	LOG MILE	Mile	646.0106 EPOXY 4-INCH			646.0126 EPOXY 8-INCH LF	647.0566 STOP LINE EPOXY 18-INCH LF	647.0803 Aerial Enforcement Epoxy 24-Inch LF	REMARKS
			SOLID WHITE LF	DASHED WHITE LF	SOLID YELLOW LF				
USH 41		3.00							
From: Flame Rd	128.93								Pvmnt Change 2,800 L.F. N. of Flame Rd
To: Cleveland Ave	131.62								Cleveland Ave
North Bound			13,675		11,625				Lt/Rt Edge Lines
Aerial Enforcement								24	2 Sets N of Flame Rd
MEDIAN CROSSOVER						100			Lt Turn
MEDIAN CROSSOVER						100			Lt Turn
MEDIAN CROSSOVER						100			Lt Turn
MEDIAN CROSSOVER						100			Lt Turn
MEDIAN CROSSOVER						100			Lt Turn
MEDIAN CROSSOVER						100			Lt Turn
COUNTRY MEADOWS RD						300			Lt/Rt Turn In
CTH T					3,855	300	50		Center Line/Lt Edge Line Lt/Rt Turn In/Stop Bar
Begin CTH T				530					Begin CTH T to Cleveland Ave
South Bound			13,100		11,725				Lt/Rt Edge Lines
Cleveland Ave				530	950				Lane Line/Edge Line Cleveland Ave to CTH T
CTH T						320	50		Lt/Rt Turn In Stop Bar
MEDIAN CROSSOVER						100			Lt Turn
MEDIAN CROSSOVER						100			Lt Turn
Aerial Enforcement								60	5 sets begin Access Rd 3 sets Begin wayside
SUB-TOTALS			26,775	1,060	28,155				
TOTALS				55,990		1,720	100	84	

PAVEMENT MARKING

LOCATION	LOG MILE	MILE	646.0106 EPOXY 4-INCH			646.0126 CHANNELIZING EPOXY 8-INCH LF	REMARKS
			SOLID WHITE LF	DASHED WHITE LF	SOLID YELLOW LF		
USH 151		13.50					
From: Chilton	47.30						Pvmt Change East of Oppurtunity Dr
To: Valders	60.92						East Roosevelt St
North Bound			64,735		59,825		Centerline/Edgelines
Church Rd						55	Right Turn
STH 67						100	Right Turn
CTH W				50			Bypass Lane
CTH A						100	Right Turn
Evenson Rd						100	Right Turn
South Bound			67,800				Edgeline
CTH W						210	Right Turn
STH 67				75			Bypass Lane
Lemke Rd						100	
SUB-TOTALS			132,535	125	59,825		
TOTALS				192,485		665	

LOCATION	LOG MILE	Mile	646.0841.S GROOVED WET REFLECTIVE CONTRAST TAPE L.F.	
USH 141		7.50		
From: Abrams	12.70			CTH E @ End Grooved Lane line Tape
To: Le Mere Rd	20.30			Const Joint 900 L.F.South of Lemere Rd
North Bound			10,270	Grooved Lane Line
South Bound			10,250	Grooved Lane Line
SUB-TOTALS			20,520	

LOCATION	Log Mile	Mile	647.0803 Aerial Enforcement Epoxy 24-Inch LF	REMARKS
USH 41		7.000		OUTAGAMIE COUNTY
From: Jct STH 441	56.60			All Aerial Bar Locations Between STH 441 and North of CTH JJ Underpass
To: CTH JJ Underpass	63.35			
Vascar Marking				
STH 47			24	North Bound 2 Sets @ North East Ramp
STH 47			24	South Bound 2 Sets @ South West Ramp
CTH E/Ballard Rd			24	North Bound 2 Sets @ North East Ramp
CTH E/Ballard Rd			24	South Bound 2 Sets @ South West Ramp
CTH N			24	North Bound 2 Sets @ North East Ramp
CTH N			24	South Bound 2 Sets @ South West Ramp
CTH J			24	North Bound 2 Sets @ North East Ramp
CTH J			24	South Bound 2 Sets @ South West Ramp
Aerial Marking				
North of Jct STH 47			60	5 sets North Bound Between STH 47 to North of Meade St overpass
North of Jct CTH JJ			60	5 sets North Bound Extending North from CTH JJ Underpass
Holland Rd overpass			60	5 sets South Bound Extending South from Holland Rd to French Rd overpass
SUB-TOTAL			372	
USH 151	4.45	0.50		
CTH AS				TO BE LOCATED BY STATE PATROL
North Bound			60	5 SETS
South Bound			60	5 SETS
SUB-TOTAL			120	
TOTAL			492	

ROUNDABOUT PAVEMENT MARKING

LOCATION	646.0843.S GROOVED WET REFLECTIVE CONTRAST TAPE 8 INCH L.F.	646.0841.S GROOVED WET REFLECTIVE CONTRAST TAPE 4 INCH L.F.	SPV.0060					SPV.0090	
			0.01 GROOVED PREFORMED THERMOPLASTIC ARROWS TYPE 1 EACH	0.02 GROOVED PREFORMED THERMOPLASTIC ARROWS TYPE 3R EACH	0.03 GROOVED PREFORMED THERMOPLASTIC ARROWS TYPE 3 EACH	0.04 GROOVED PREFORMED THERMOPLASTIC WORDS EACH	0.05 GROOVED PREFORMED THERMOPLASTIC ARROWS TYPE 2 EACH	0.01 GROOVED CONTRAST PREFORMED THERMOPLASTIC 8 INCH L.F.	0.02 GROOVED PREFORMED THERMOPLASTIC YIELD LINE 18 INCH L.F.
9th/I 41 East Ramp	65	43	4	3	4	6 (Yield)	1	263	80
9th/I 41 West Ramp	43	130	4	2	3	9 (Yield)	1	311	96

LOCATION	646.0841.S GROOVED WET REFLECTIVE CONTRAST TAPE 4 INCH L.F.	646.0843.S GROOVED WET REFLECTIVE CONTRAST TAPE 8 INCH L.F.	SPV.0060					SPV.0090	
			0.01 GROOVED PREFORMED THERMOPLASTIC ARROWS TYPE 1 EACH	0.02 GROOVED PREFORMED THERMOPLASTIC ARROWS TYPE 3R EACH	0.03 GROOVED PREFORMED THERMOPLASTIC ARROWS TYPE 3 EACH	0.04 GROOVED PREFORMED THERMOPLASTIC WORDS EACH	0.05 GROOVED PREFORMED THERMOPLASTIC ARROWS TYPE 2 EACH	0.01 GROOVED CONTRAST PREFORMED THERMOPLASTIC 8 INCH L.F.	0.02 GROOVED PREFORMED THERMOPLASTIC YIELD LINE 18 INCH L.F.
I 41/USH 45 West Ramp	43	265	5	2	3	4 (Yield)	2	287	52

LOCATION	646.0841.S GROOVED WET REFLECTIVE CONTRAST TAPE 4 INCH L.F	SPV.0060					SPV.0090	
		0.01 GROOVED PREFORMED THERMOPLASTIC ARROWS TYPE 1 EACH	0.02 GROOVED PREFORMED THERMOPLASTIC ARROWS TYPE 3R EACH	0.03 GROOVED PREFORMED THERMOPLASTIC ARROWS TYPE 3 EACH	0.04 GROOVED PREFORMED THERMOPLASTIC WORDS EACH	0.05 GROOVED PREFORMED THERMOPLASTIC ARROWS TYPE 2 EACH	0.01 GROOVED CONTRAST PREFORMED THERMOPLASTIC 8 INCH L.F.	0.02 GROOVED PREFORMED THERMOPLASTIC YIELD LINE 18 INCH L.F.
Scheuring Rd/I 41 East Ramp	43	3	2	3	5	0	397	68
Scheuring Rd/I 41 West Ramp	43	3	0	5	5	1	263	90
					(1 ONLY, 4 YIELD)			

ROUNDAABOUT PAVMENT MARKING

LOCATION	646.0843.S GROOVED WET REFLECTIVE CONTRAST TAPE 8 INCH L.F.	SPV.0060					SPV.0090	
		0.01 GROOVED PREFORMED THERMOPLASTIC ARROWS TYPE 1 EACH	0.03 GROOVED PREFORMED THERMOPLASTIC ARROWS TYPE 3 EACH	0.04 GROOVED PREFORMED THERMOPLASTIC WORDS EACH	0.05 GROOVED PREFORMED THERMOPLASTIC ARROWS TYPE 2 EACH	0.06 GROOVED PREFORMED THERMOPLASTIC ARROWS TYPE 2R EACH	0.01 GROOVED CONTRAST PREFORMED THERMOPLASTIC 8 INCH L.F.	0.02 GROOVED PREFORMED THERMOPLASTIC YIELD LINE 18 INCH L.F.
BREEZEWOOD/ I41 EAST RAMP	80	6	3	4	2	1	152	26
BREEZEWOOD/ I41 WEST RAMP	0	5	1	5	2	0	94	26

LOCATION	646.0883.S GROOVED WET REFLECTIVE TAPE 8 INCH L.F.	SPV.0060			SPV.0090.02
		0.01 GROOVED PREFORMED THERMOPLASTIC ARROWS TYPE 1 EACH	0.03 GROOVED PREFORMED THERMOPLASTIC ARROWS TYPE 3 EACH	0.04 GROOVED PREFORMED THERMOPLASTIC WORDS EACH	GROOVED PREFORMED YIELD LINE 18 INCH L.F.
IH 41 / STH 54 EAST RAMP	125	4	2	0	20
IH 41 / STH 54 WEST RAMP	0	3	1	3	0

LOCATION	646.0883.S GROOVED WET REFLECTIVE TAPE 8 INCH L.F.	SPV.0060.03
		GROOVED PREFORMED THERMOPLASTIC ARROWS TYPE 3 EACH
ASHLAND AVE/GLORY RD	450	2

LOCATION	646.0883.S GROOVED WET REFLECTIVE TAPE 8 INCH L.F.	SPV.0060.03
		GROOVED PREFORMED THERMOPLASTIC ARROWS TYPE 3 EACH
STH 172/STH 54	450	1

PAVEMENT MARKING

STH 441	LOG MILE	MILE	646.0106 EPOXY 4-INCH			646.0126 EPOXY 8-INCH	647.0803 Aerial Enforcement Epoxy 24-Inch LF	647.0166 Arrows Epoxy Type 2 Each	647.0176 Arrows Epoxy Type 3 Each	647.0356 Words Epoxy (ONLY) Each	647.0566 STOP LINE EPOXY 18-INCH LF	646.0600 Removing Pvmt Markings 4-Inch L.F.	REMARKS
SOLID WHITE LF	DASHED WHITE LF	SOLID YELLOW LF											
From : USH 10 WB	0.65	6.00											
To: I 41 NB	7.00												8 inch Qauntity doubled and paid as 4 Inch Removal
North/South Bound Removal												219,390	Removal of 4 and 8 Inch North/South Bound
North Bound													
Edge lines/ Lane Line			27,550	8,200	34,000								Main Line
On ramp from USH 10 WB			2,115		930	1,735							Ramp Edge Lines/On Ramp Gore
Off Ramp to CTH KK			2,645		1,180	2,800		9	3	6	60		Ramp Edge Lines/Turn lanes/Special Marking
On Ramp From CTH KK			2,385		1,000	1,650							Ramp Edge Lines/On Ramp Gore
Off Ramp to CTH CE			1,385	175	950	175							Ramp Edge Lines/Lane Line/Turn Lane
On ramp from CTH CE			2,050		900	1,385							Ramp Edge Lines/On Ramp Gore
Off Ramp to CTH OO			1,575	30	1,100	545		2	2	1	25		Turn Lane Markings/Arrows/Dual turn lane Dashes
On ramp from CTH OO			1,480		700								Ramp Edge Lines
Off Ramp to USH 41 NB			2,300		1,200								Ramp Edge Lines
Off Ramp to USH 41 SB			4,000		3,550								Ramp Edge Lines
South Bound													
Edge lines/ Lane Line			27,000	8,500	34,000								Main Line
On Ramp From USH 41 SB			1,000		1,000								Ramp Edge Lines
On Ramp From USH 41 NB			2,800		1,225	1,160							Ramp Edge Lines/On Ramp Gore
Off Ramp to CTH OO			1,265	50	775	100					25		Ramp Edge Lines/Island Gore bottom of Ramp
On Ramp from CTH OO			2,000		880								
Off Ramp to CTH CE			1,375	30		280		2	2	1	35		Ramp Edge Lines/Island Gore/Turn Lane/Stop Bar/Dual turn lane
On Ramp from CTH CE			2,125		900								Ramp Edge Lines
Off Ramp to CTH KK			2,225	60	960	1,875		10	4	6	60		Ramp Edge Lines/Island Gore/Turn Lane/Stop Bar/dual turn lane
On Ramp from CTH KK			2,300		1,070	1,520							Ramp Edge lines/On ramp Gore
AERIAL ENFORCEMENT BARS													
North Bound							84						7 Sets Begin North Bound at on Ramp Gore from CTH KK
South Bound							84						7 Sets Begin South Bound 1 Mile South of CTH CE
SUB-TOTALS			89,575	17,045	86,320	13,225	168	23	11	14	205	219,390	
TOTALS			192,940										

PAVEMENT MARKING

STH 23	LOG MILE	MILE	646.0106 EPOXY 4-INCH			646.0126 EPOXY 8-INCH	647.0166 Arrows Epoxy Type 2 Each	647.0176 Arrows Epoxy Type 3 Each	646.0600 Removing Pvmt Markings 4-Inch LF	REMARKS
From: CTH P	45.95	14.00								Sheboygan County
To: Taylor Dr On Ramp	59.95									Taylor Dr East On Ramps @ Pvmt Change
										8 inch Qauntity doubled and paid as 4 Inch Removal
North/South Bound Removal									295,130	Removal of 4 and 8 Inch North/South Bound
East Bound			63,475		74,185					Edge Lines
CTH P						575				Lt/Rt Turn
Inez Court						50				Rt Turn
Old Plank Rd Trail						50				Rt Turn
CTH C Exit Ramp			1,825	40	1,385					Exit Ramp Dash/ Edge Lines
CTH C On Ramp			3,030		1,165					On Ramp Edge Lines
STH 67 Exit Ramp			2,100	40	1,650					Exit Ramp Dash/ Edge Lines
STH 67 On Ramp			2,350		1,330					On Ramp Edge Lines
J Turn Median										Wht or ylw dash or grvd tape ? SDD 15c-32-1a
STH 57 Exit Ramp			1,975	115	1,135	190				Exit Ramp Dash/ Edge Lines/Bottom of Ramp Gore Turn Lane
STH 57 On Ramp			2,330		1,025					On Ramp Edge Lines
Willow Rd						120				Rt Turn
J Turn Lane				75						SDD 15c-32-1b
Hillside Rd						130				Lt Turn
Bridewood Lane						130				Lt Turn
Sunset Road						130				Lt Turn
CTH TT						330				Lt/Rt Turn
Meadow Rd						130				Lt Turn
STH 32 Exit Ramp			1,620	35	1,145					Exit Ramp Dash/ Edge Lines
STH 32 On Ramp			2,360		1,060	1,250				On Ramp Edge Lines/Entry Gore ?
CTH Y Exit Ramp			1,675	100	975	75				Exit Ramp Dash/ Edge Lines/Bottom of Ramp Gore
CTH Y On Ramp			1,450		925					On Ramp Edge Lines/Entry Gore ?
Taylor Dr Exit Ramp			1,000		960	800	2	3		Ramp Edge Lines/Arrows/Turn Lanes/Island Gore
Taylor Dr				100		275				Between Ramps On Taylor Dr/ Dual Turn Skips/Turn Lane/Lane Line
Taylor Dr On Ramp			1,300		450	875				On Ramp Edge Lines/Gore
West Bound			62,600							Edge Lines
Taylor Dr Exit Ramp			1,210		570	350	2	3		Exit Ramp Edge Lines/Arrows/Turn Lanes/Island Gore

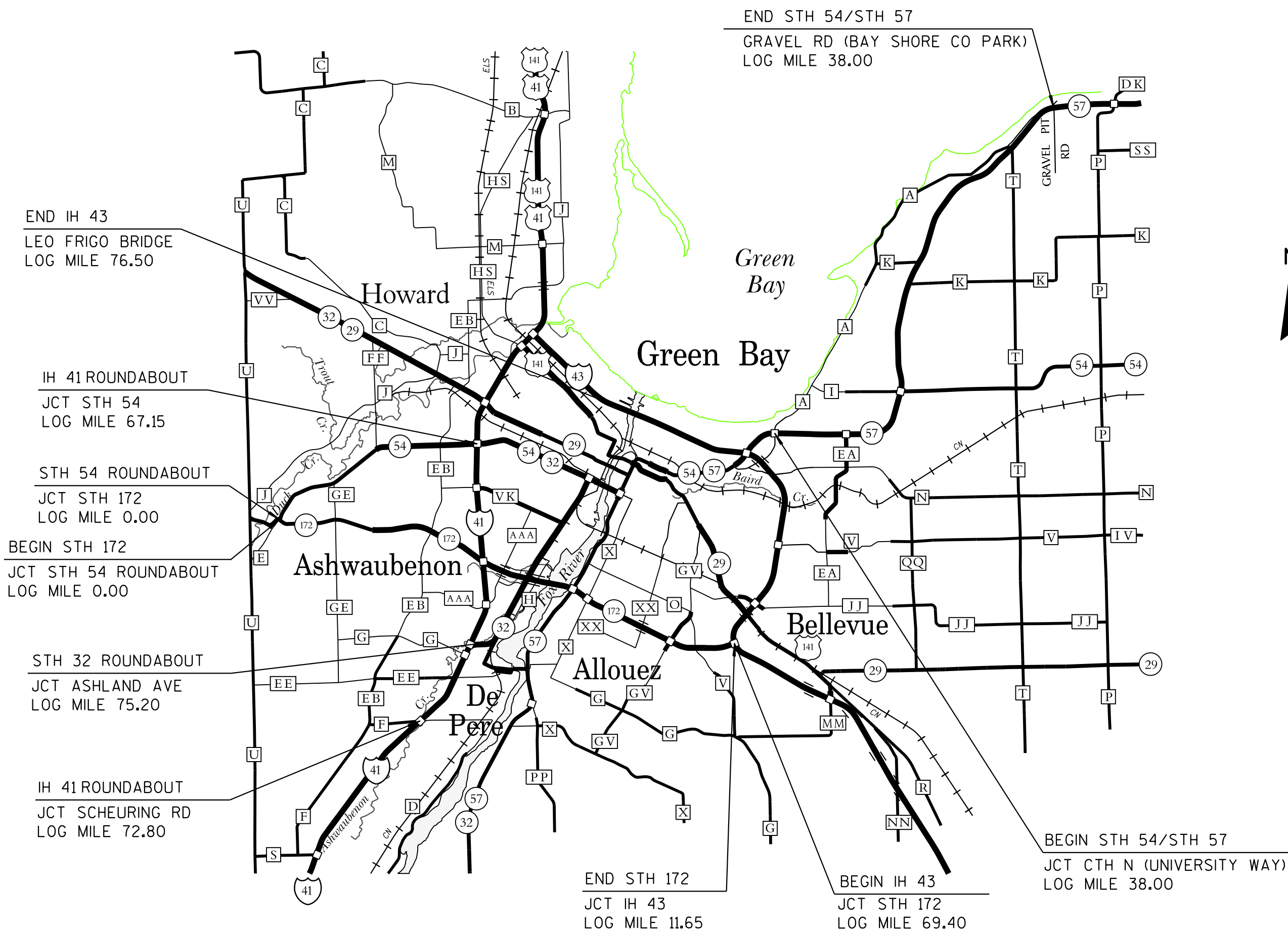
cont. on next sheet

PAVEMENT MARKING con't.

STH 23	LOG MILE	MILE	646.0106 EPOXY 4-INCH			646.0126 EPOXY 8-INCH	647.0166 Arrows Epoxy Type 2 Each	647.0176 Arrows Epoxy Type 3 Each	646.0600 Removing Pvmt Markings 4-Inch LF	REMARKS
Taylor Dr				100		275				Between Ramps On Taylor Dr/ Dual Turn Skips/Turn Lane/Lane Line
Taylor Dr On Ramp			2,250		825					On Ramp Edge Lines
CTH Y On Ramp			1,725		1,300					(Field check dashes btwn ramps) On Ramp Edge Lines
CTH Y Exit Ramp			1,800		1,460	350				Exit Ramp Edge Line/ Top of ramp Turn lane/gore
On CTH Y Between Ramps				600		220				CTH Y Overpass/Turn lanes/Lane Lines
STH 32 Exit Ramp			1,475		970	145				Exit Ramp Edge Lines/Island Gore
STH 32 On Ramp			2,435		1,200					On Ramp Edge Lines/Entry Gore ?
Meadowlark Rd						150				Lt Turn lane
CTH Tt						375				Lt/Rt Turn lanes
Sunset Rd						150				Lt Turn lane
Bridgewood						150				Lt Turn lane
Hillside Rd						150				Lt Turn lane
J Turn Lane				75						SDD 15c-32-1b
Willow Rd						150				Lt Turn lane
STH 57 Exit Ramp			1,835	85	1,250	260				Exit Ramp Dash/ Edge Lines/Bottom of Ramp Gore Turn Lane
STH 57 On Ramp			2,075		1,035					On Ramp Edge Lines/Entry Gore ?
Pleasant View Rd						285				Rt Turn Lane
CTH E						480				Rt Turn Lane
CTH OJ						425				Rt Turn Lane
STH 67 Exit Ramp			1,620	45	1,170	100				Exit Ramp Dash/ Edge Lines/Bottom of Ramp Gore
STH 67 On Ramp			2,590		1,280					On Ramp Edge Lines
CTH C Exit Ramp			1,545	45	1,025					Exit Ramp Dash/ Edge Lines/Bottom of Ramp Gore
CTH C On Ramp			2,775		1,175					On Ramp Edge Lines
J Turn Median										TURN GORES ? TAPE OR EPOXY ?
Inez Court						225				Lt Turn Lane
CTH P						950				
SUB-TOTALS			172,425	1,455	100,650	10,300	4	6	295,130	
TOTALS				274,530						

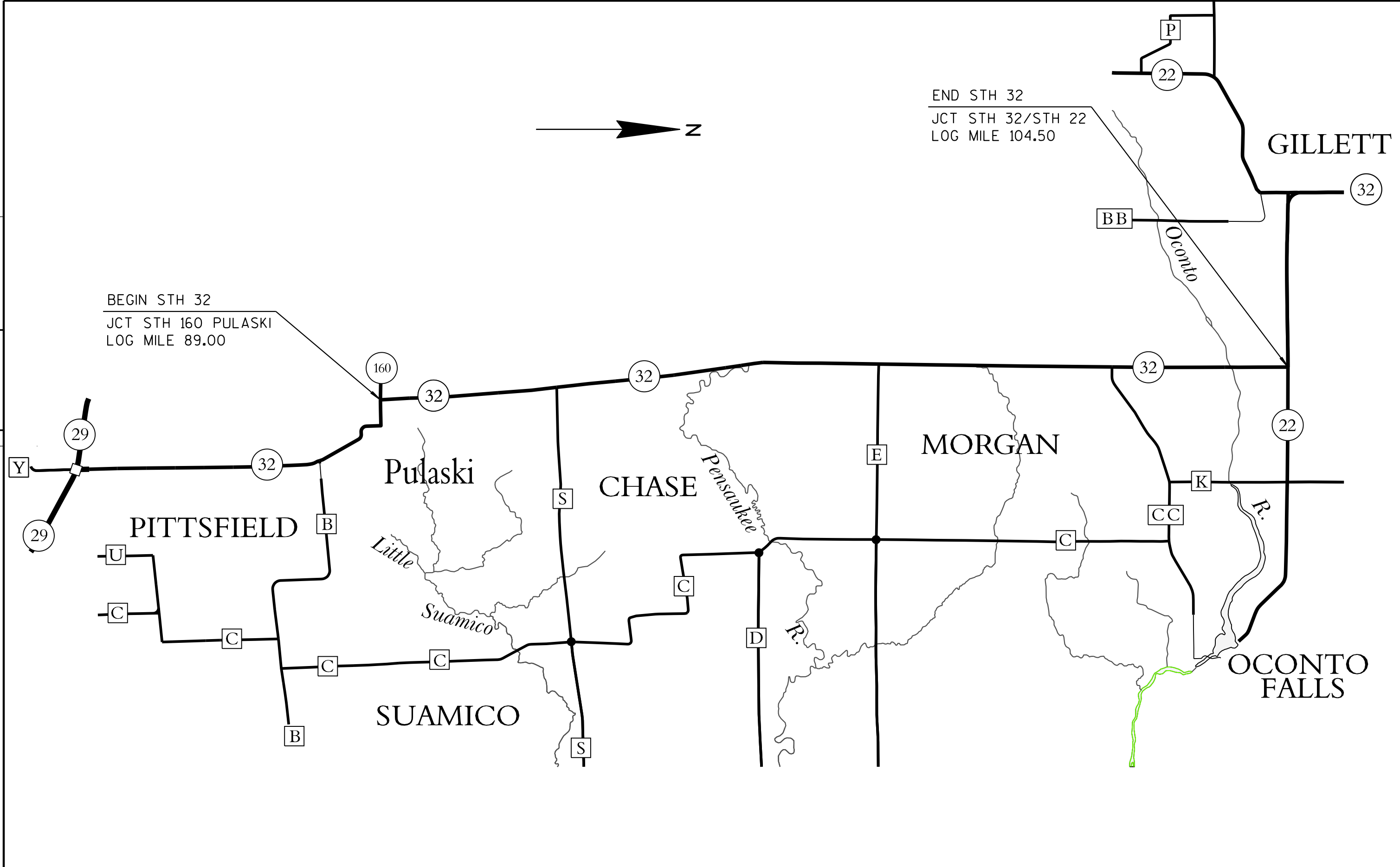
PAVEMENT MARKING

LOCATION	LOG MILE	MILE	646.0106 EPOXY 4-INCH		646.0126 EPOXY 8-INCH	647.0566 STOP LINE EPOXY 18-INCH	REMARKS
USH 45		15.00					* SEE WORK RESTRICTIONS
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	



5

5



Appleton

END STH 55
JCT STH 55/USH 10 ROUNDABOUT
LOG MILE 15.90

KK

KK

KK

AP

AP

LP

N

Sherwood

10

BEGIN STH 55
JCT STH 114 WB SHERWOOD
LOG MILE 14.45

Menasha

Lake Winnebago

M

B

114

55

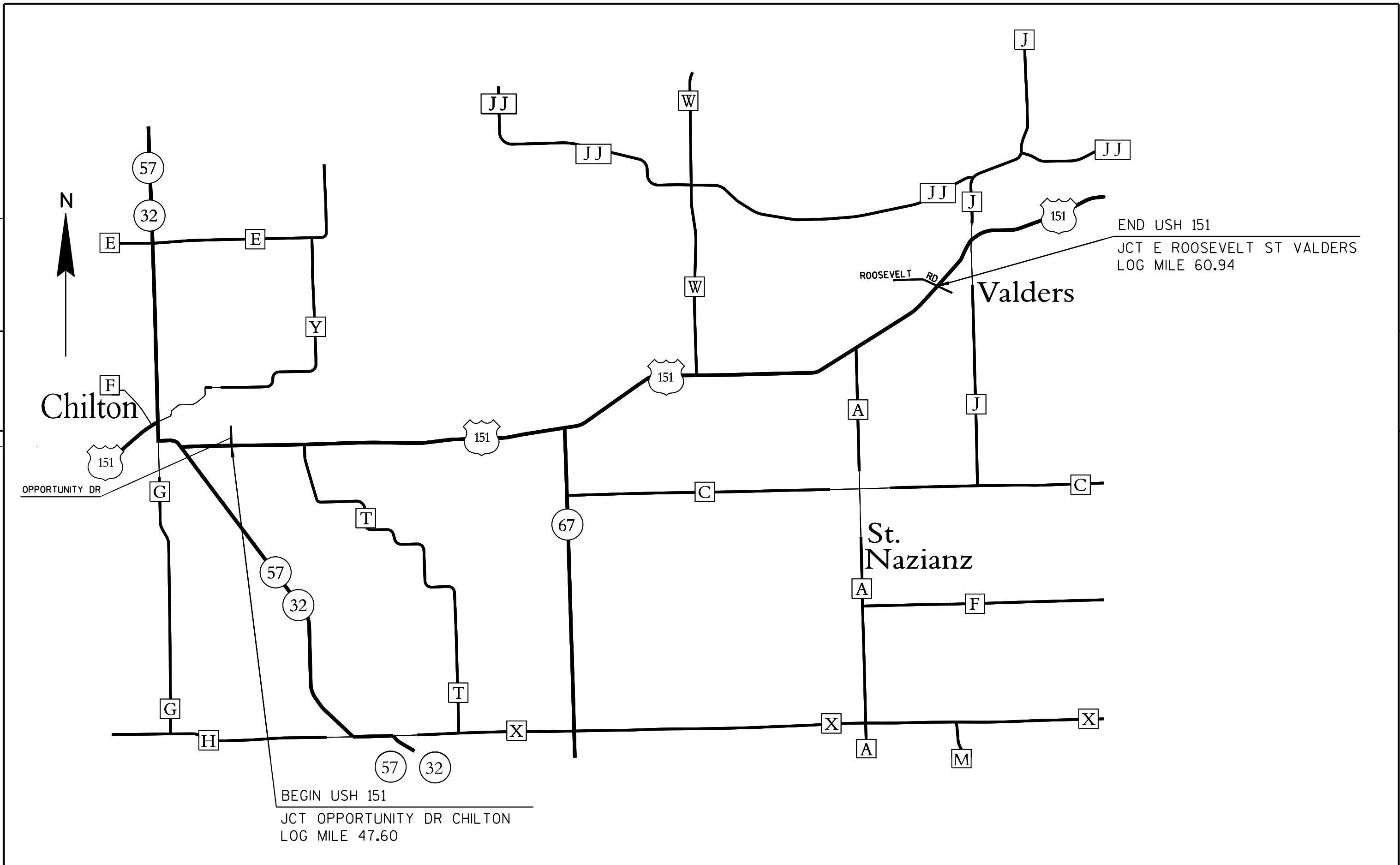
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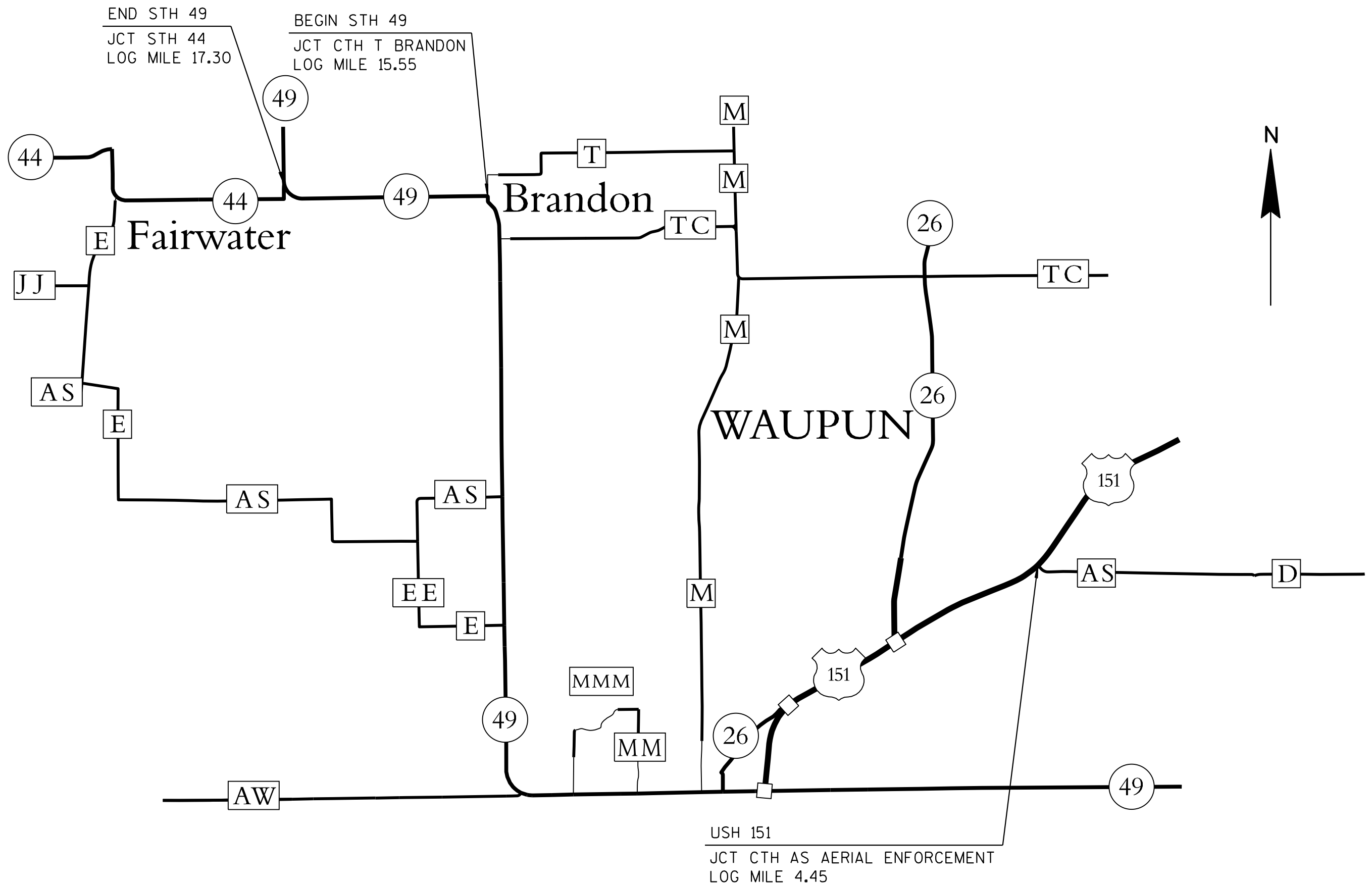
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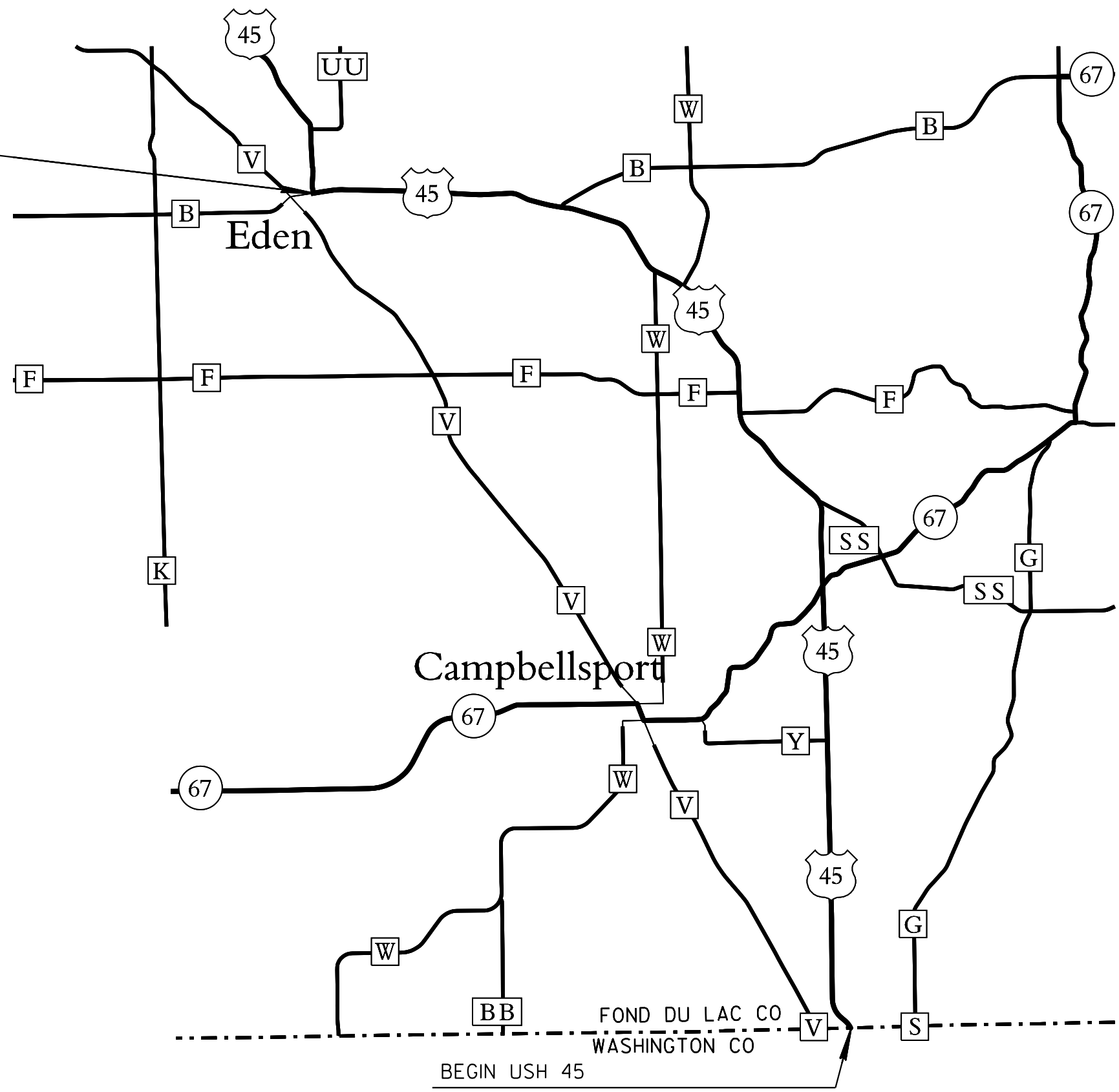
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5





END USH 45
JCT CTH B EDEN
LOG MILE 14.70



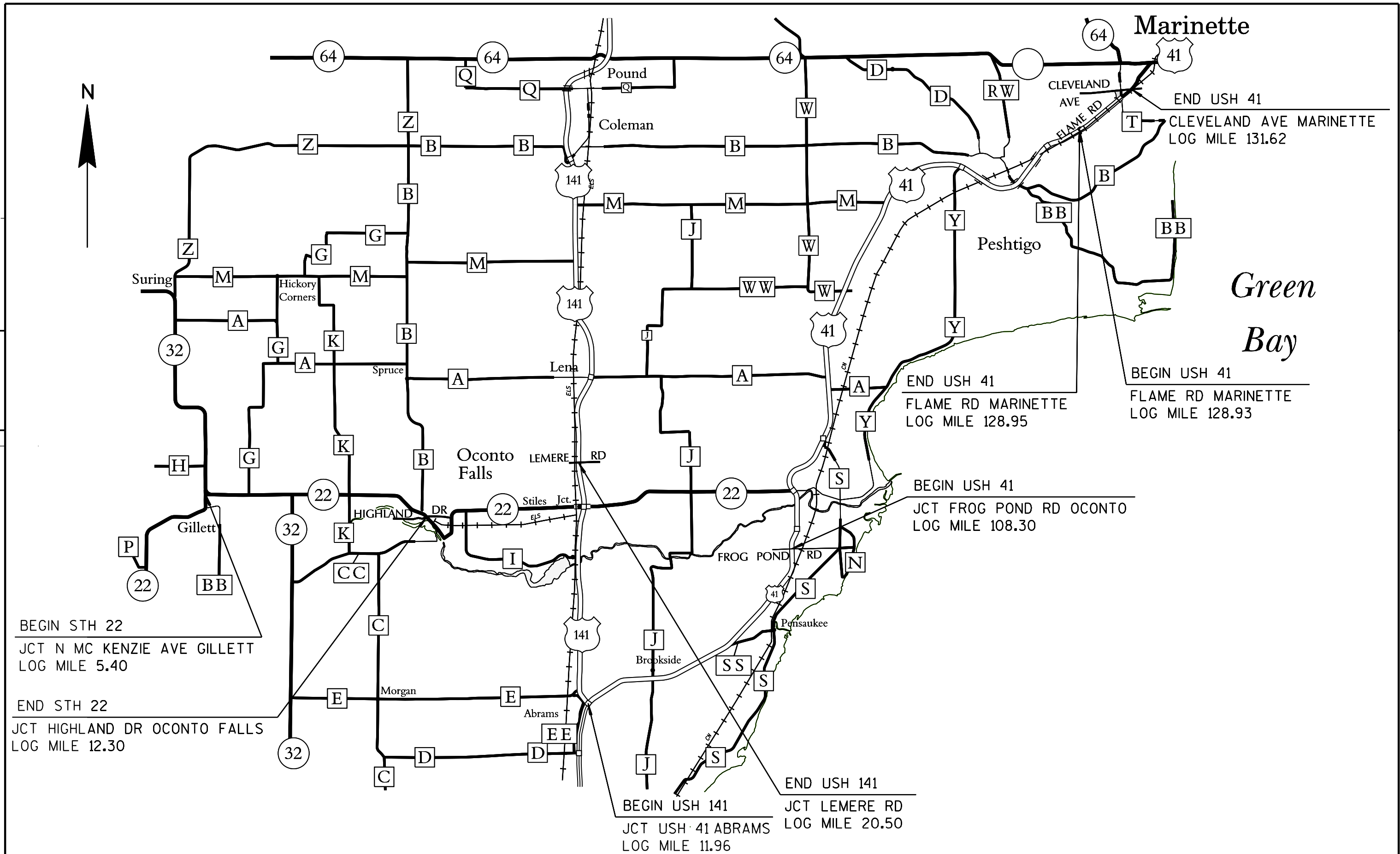
Campbellsport

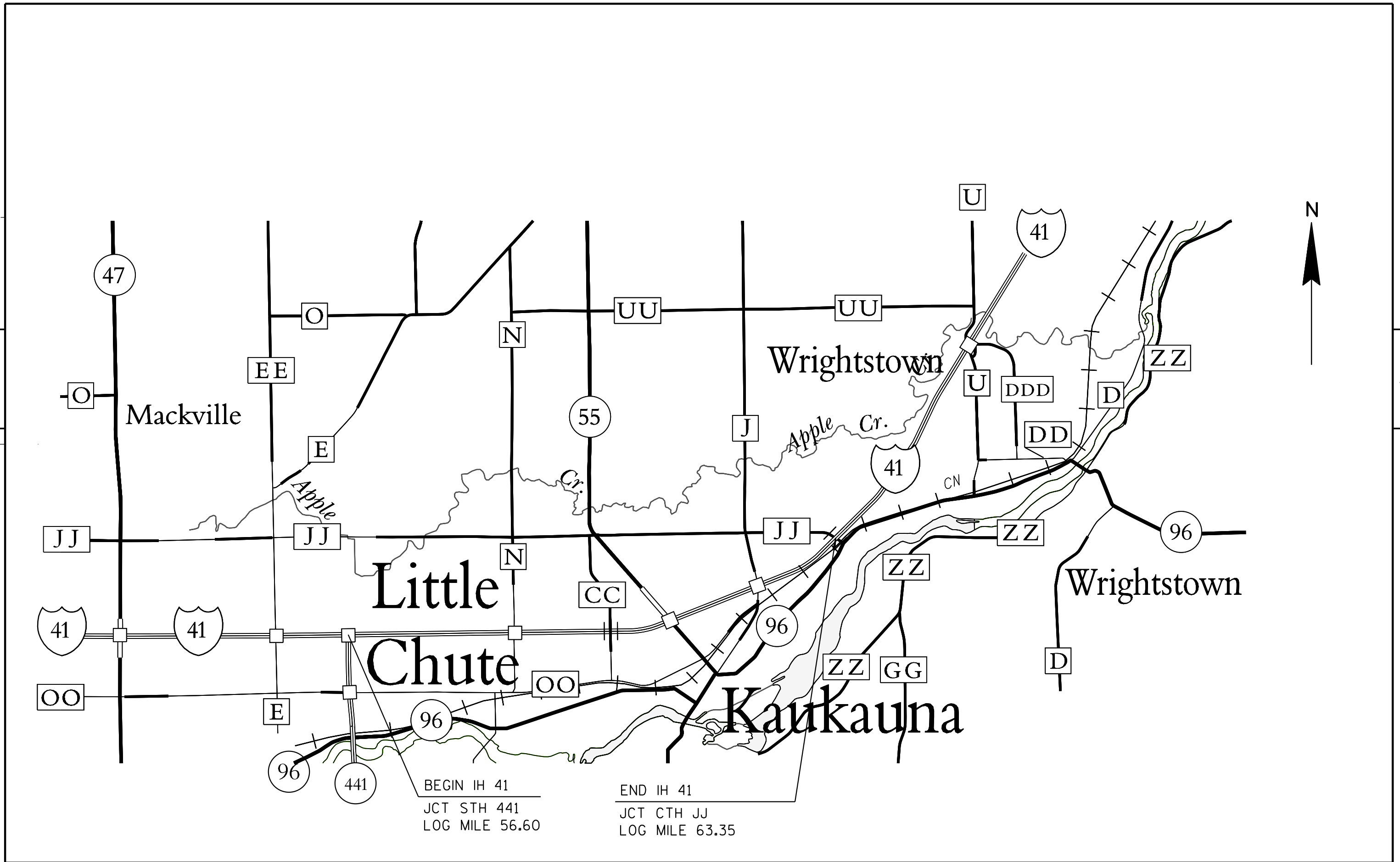
Eden

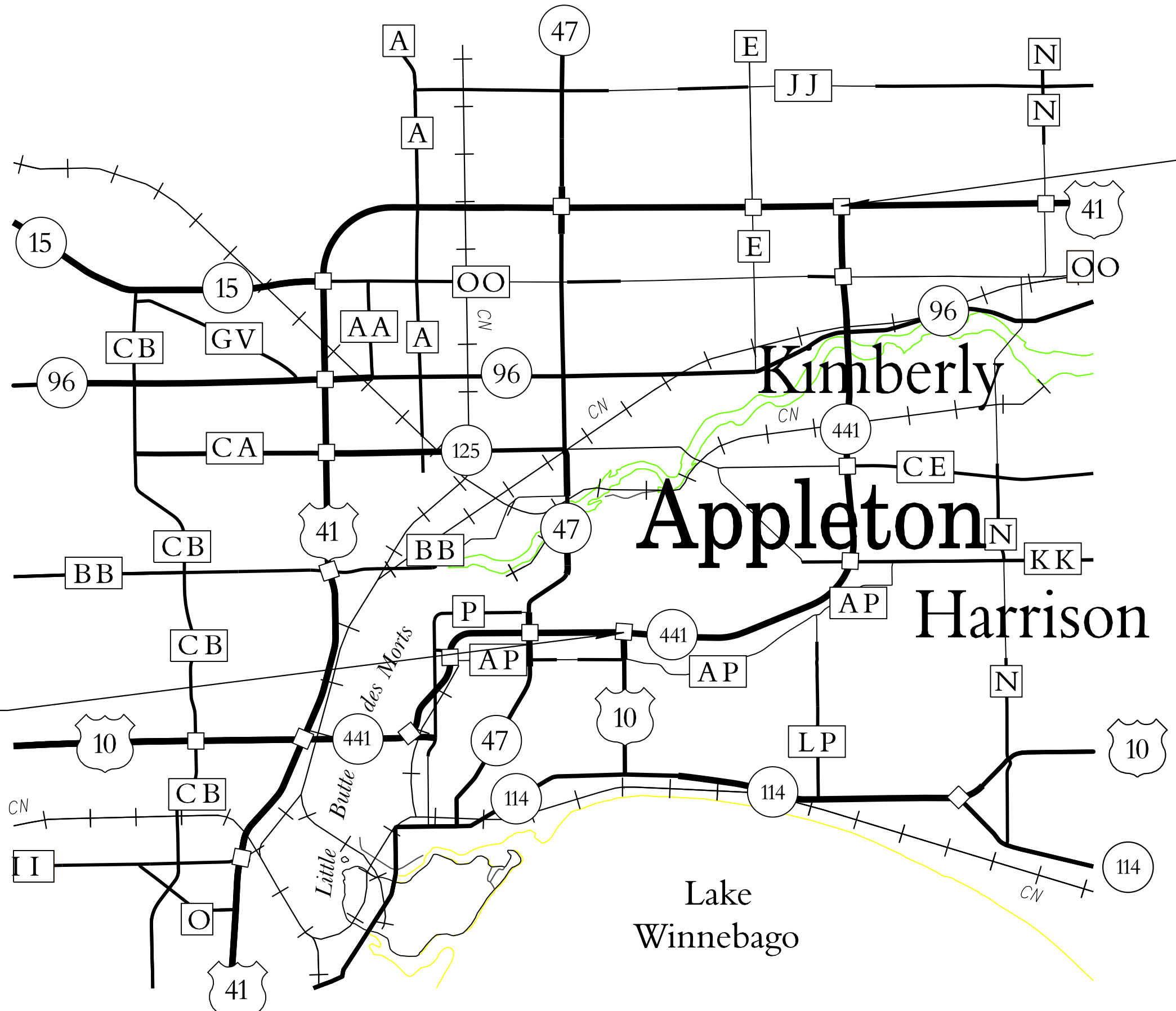
FOND DU LAC CO
WASHINGTON CO

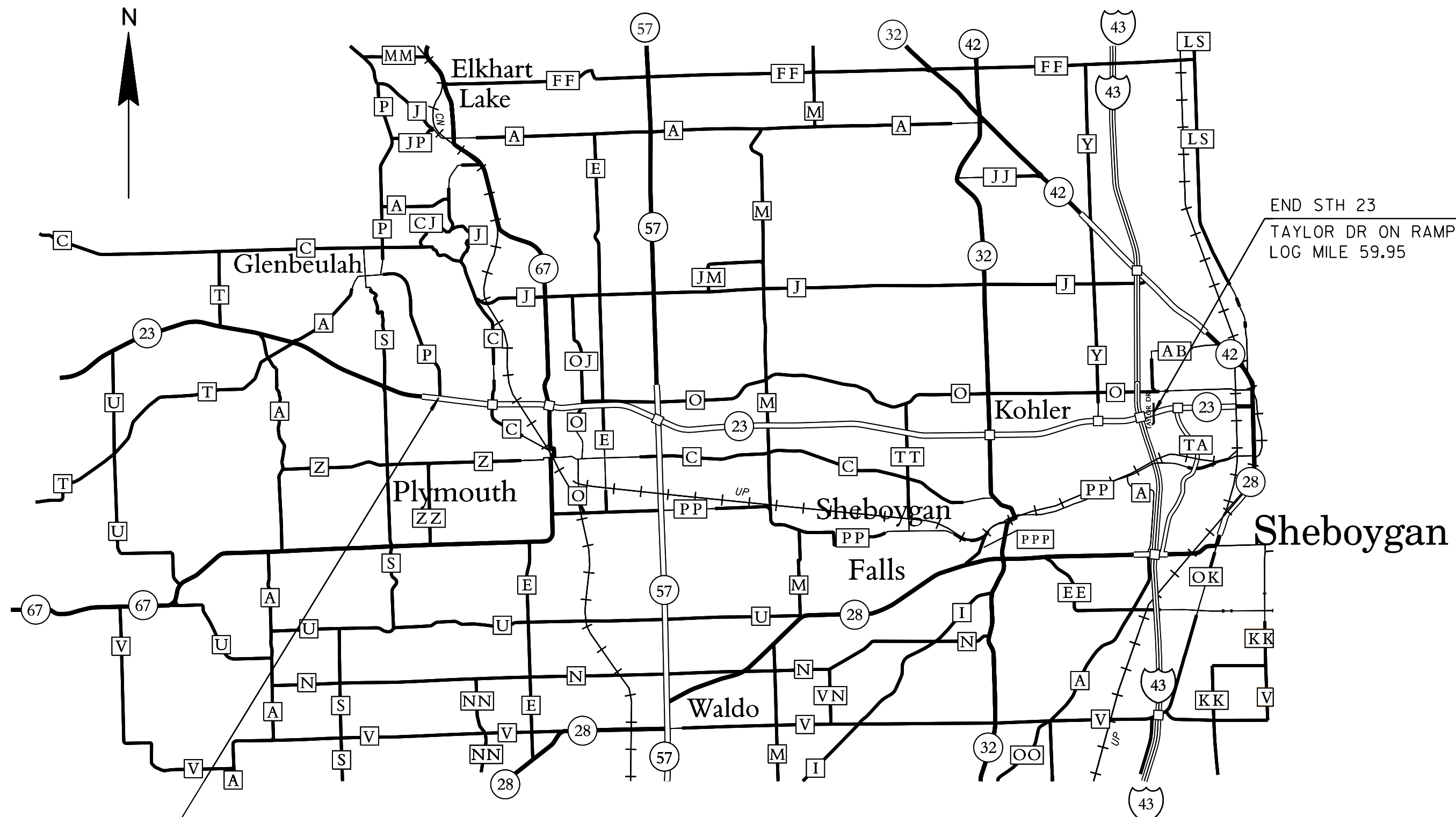
BEGIN USH 45
FOND DU LAC SOUTH CO LINE
LOG MILE 0.0





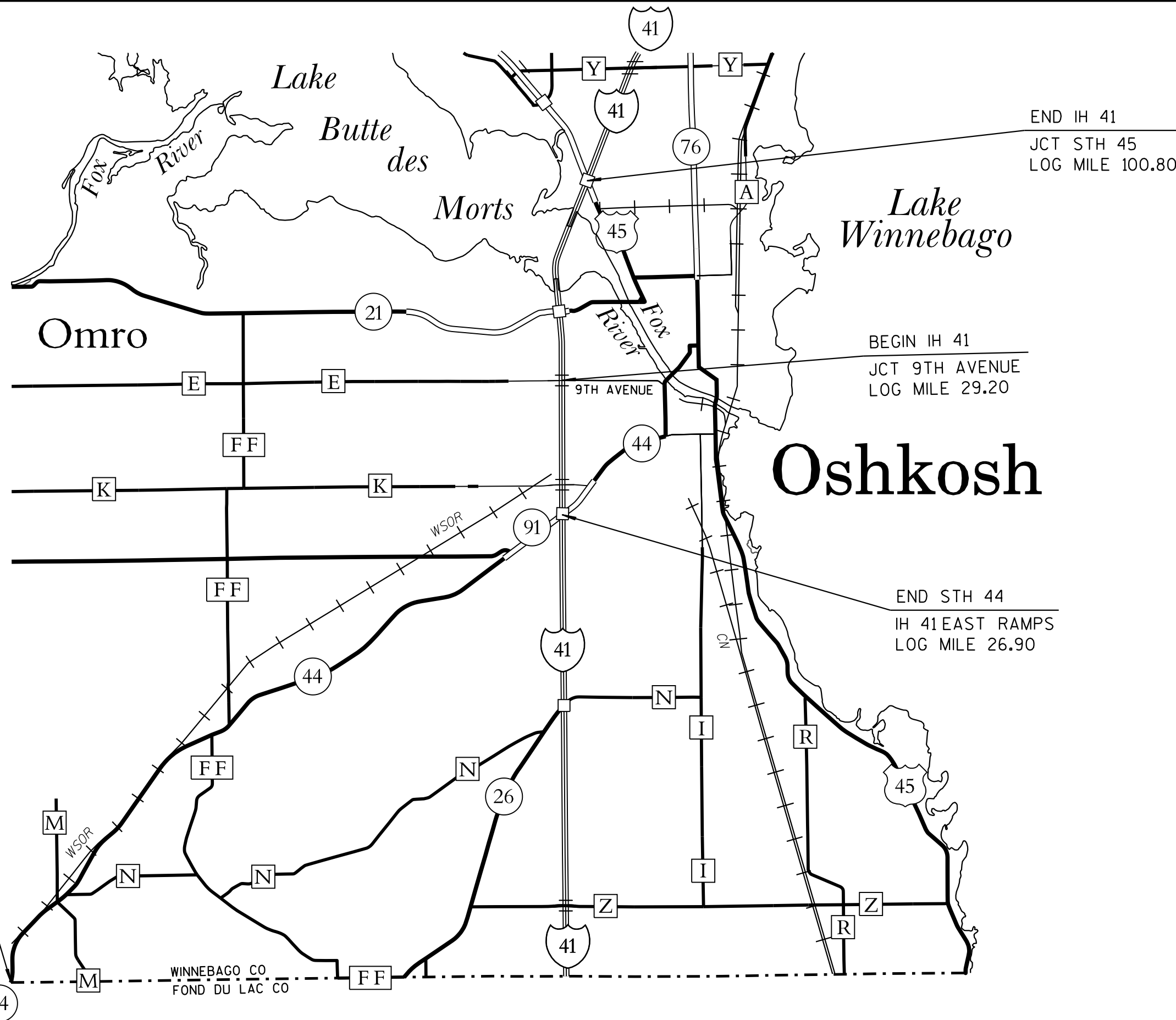






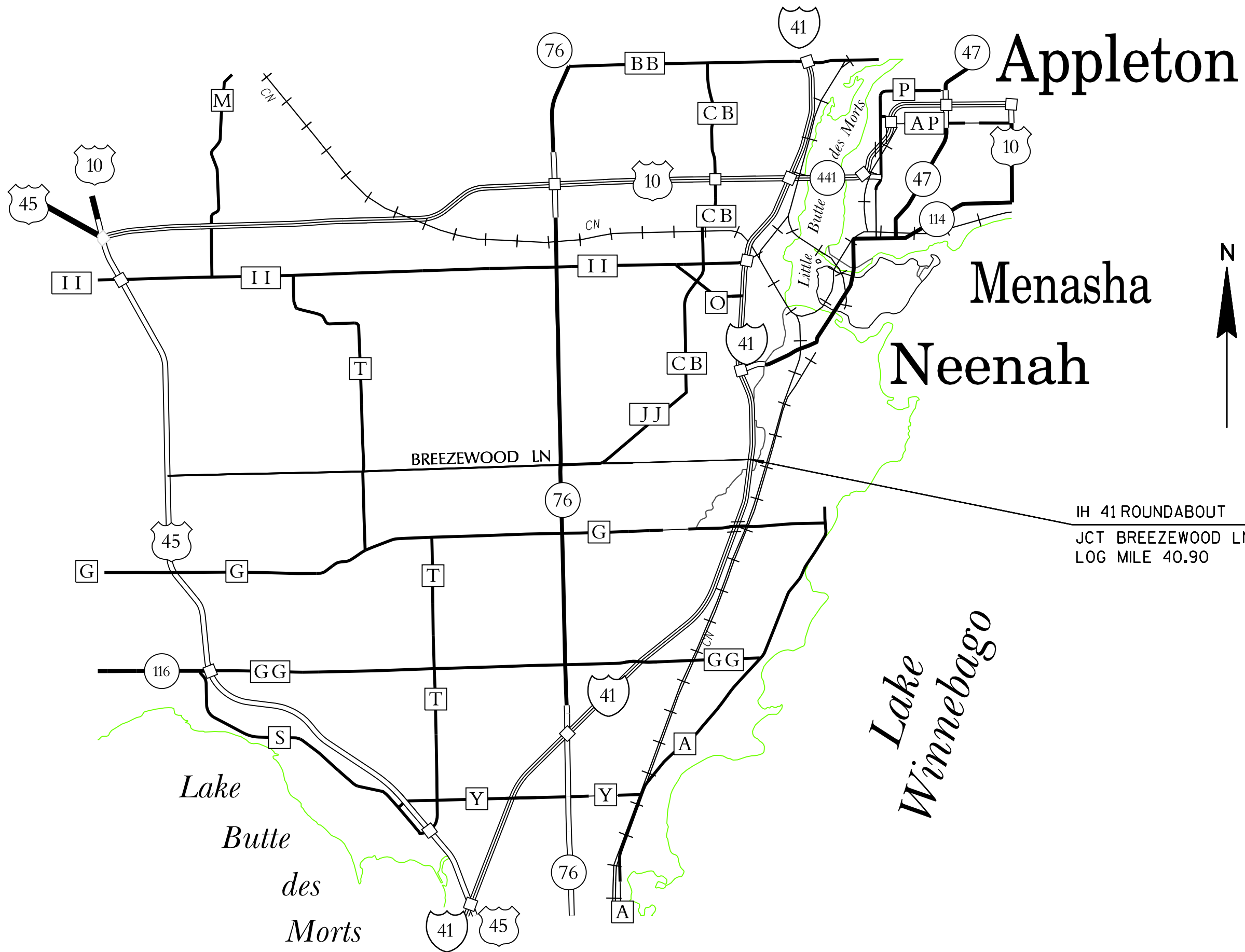
BEGIN STH 23
JCT CTH P
LOG MILE 45.95

END STH 23
TAYLOR DR ON RAMP
LOG MILE 59.95



5

5



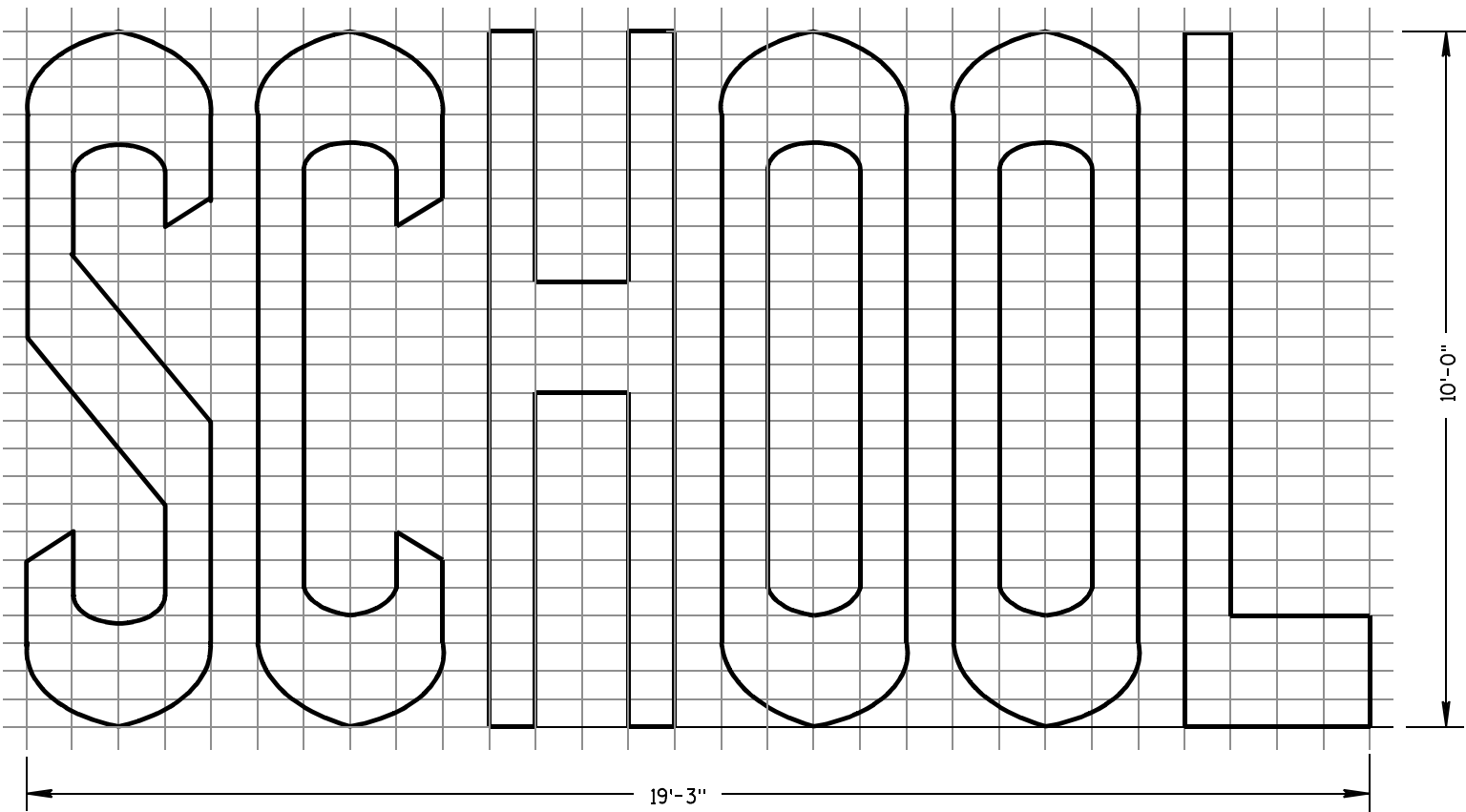
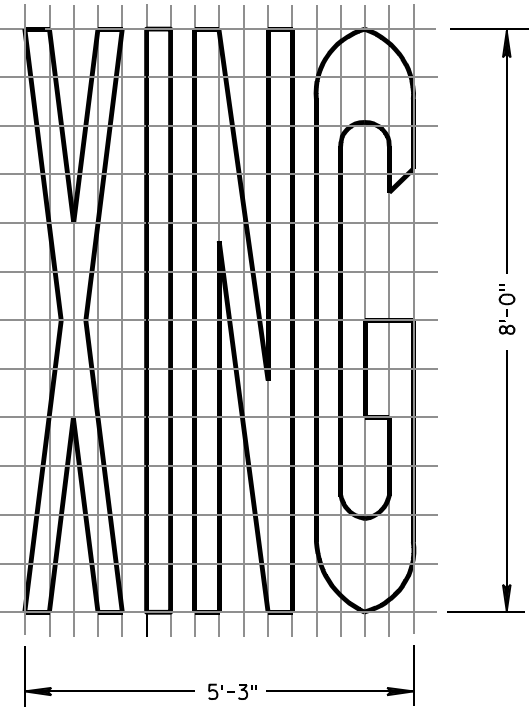
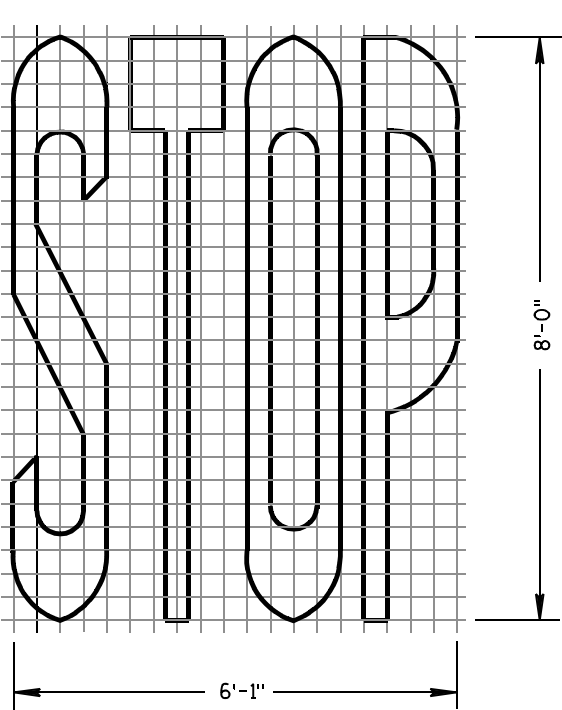
Standard Detail Drawing List

15C07-12B	PAVEMENT MARKING WORDS
15C07-12C	PAVEMENT MARKING ARROWS
15C07-12D	ROUNDBOUT ARROWS
15C08-16A	PAVEMENT MARKING (MAINLINE)
15C08-16B	PAVEMENT MARKING (INTERSECTIONS)
15C08-16C	PAVEMENT MARKING (CLIMBING LANE & PASSING LANE)
15C08-16E	PAVEMENT MARKING (LEFT TURN LANE)
15C08-16F	PAVEMENT MARKING (ISLANDS)
15C14-01	AERIAL ENFORCEMENT BARS PAVEMENT MARKING DETAILS
15C18-03	MEDIAN ISLAND MARKING
15C19-02A	MOVING PAVEMENT MARKING OPERATION TWO-LANE TWO-WAY ROADWAY
15C19-02C	MOVING PAVEMENT MARKING OPERATION MULTI-LANE DIVIDED ROADWAY
15C20-01	YIELD MARKING
15C31-01A	PAVEMENT MARKING (RAMPS AND GORES)
15C33-01	STOP LINE AND CROSSWALK PAVEMENT MARKING
15D12-04	TRAFFIC CONTROL, LANE CLOSURE, SPEED REDUCTION
15D37-01	TRAFFIC CONTROL, 2-LANE ROUNDBOUT

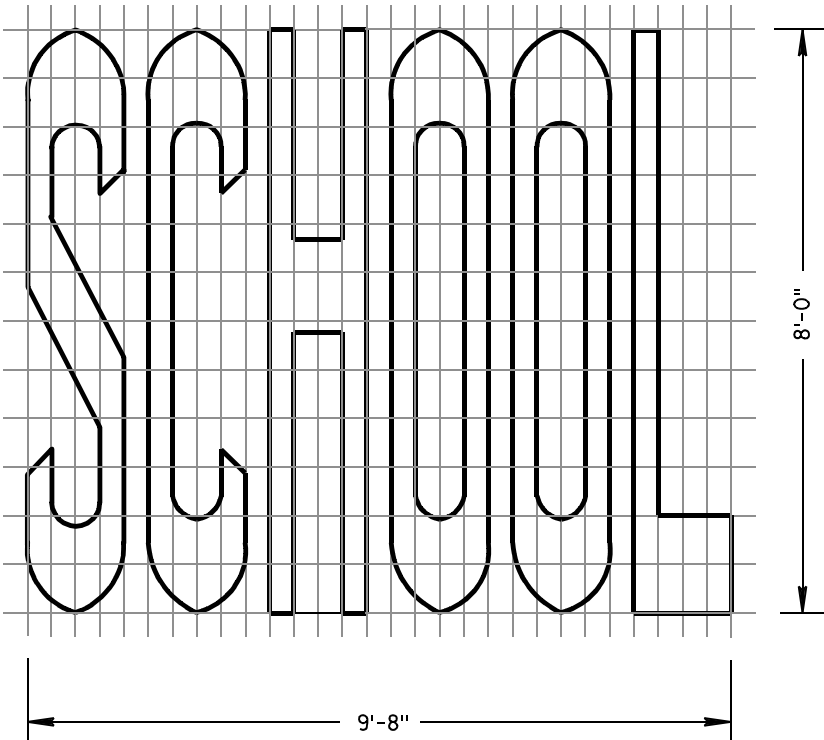
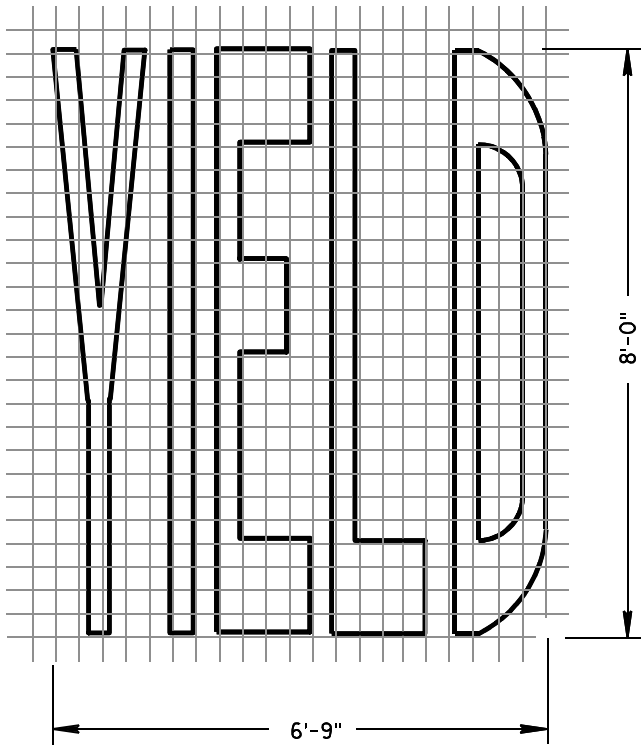
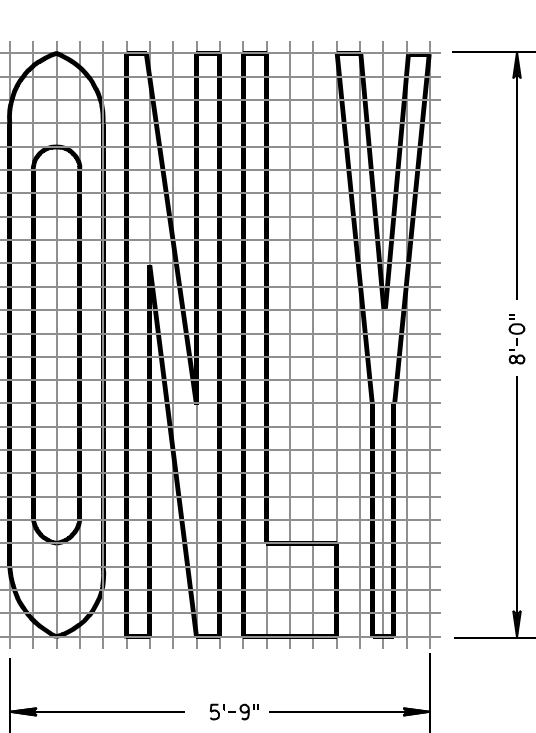
GENERAL NOTES

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.

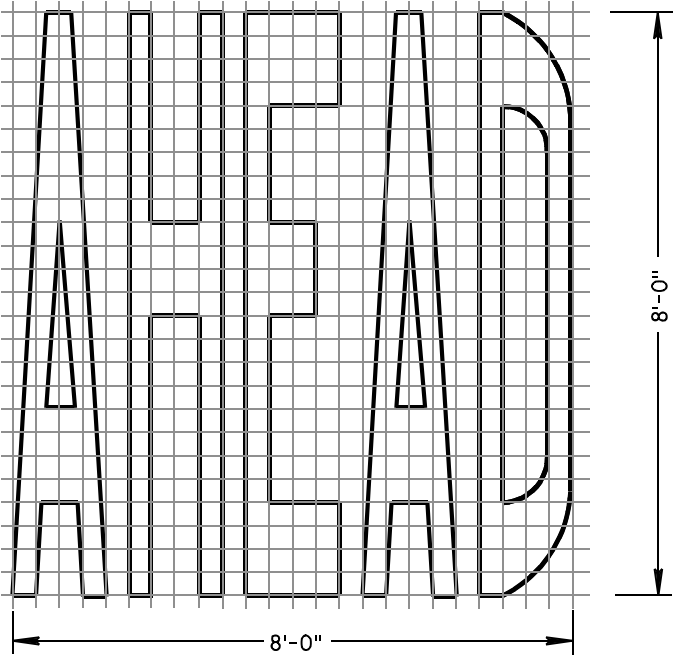
ALL LETTERS, ARROWS AND SYMBOLS SHALL BE IN CONFORMANCE WITH REQUIREMENTS INCLUDED IN "STANDARD ALPHABETS FOR HIGHWAY SIGNS AND PAVEMENT MARKING" BOOK BY THE FEDERAL HIGHWAY ADMINISTRATION. ALL LETTERS, ARROWS AND SYMBOLS SHALL BE WHITE AND REFLECTORIZED. SMALL DIFFERENCES IN DIMENSIONS WITHIN THE TOLERANCES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



TWO-LANE



SINGLE-LANE



PAVEMENT MARKING WORDS

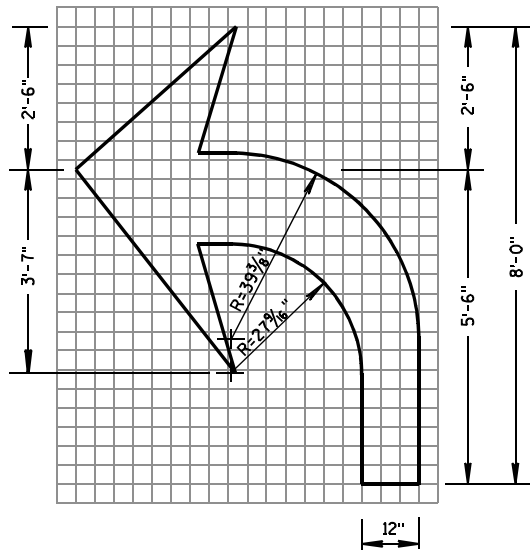
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED

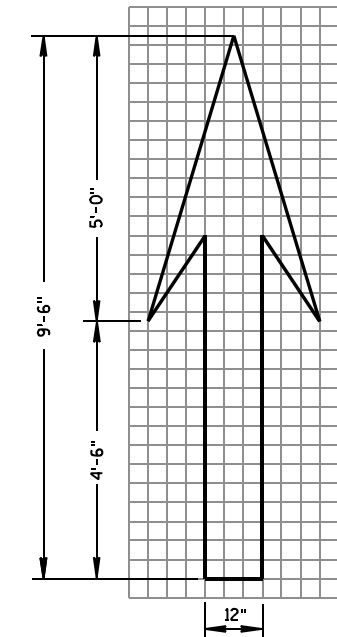
7-1-11
DATE

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

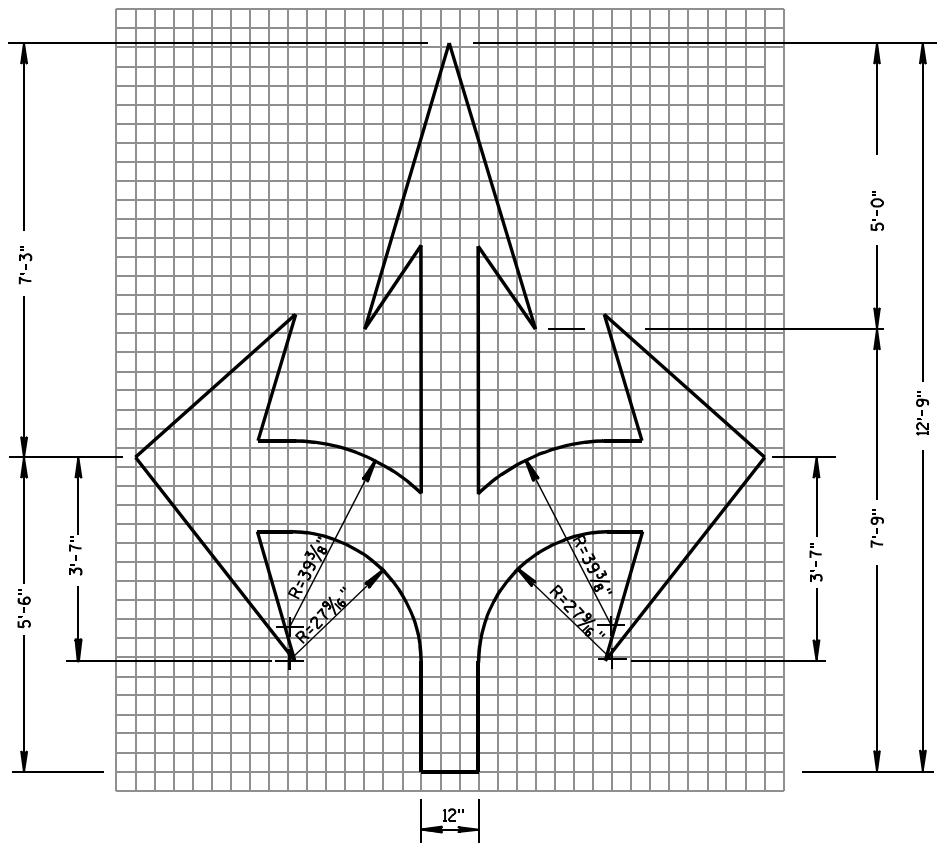
FHWA



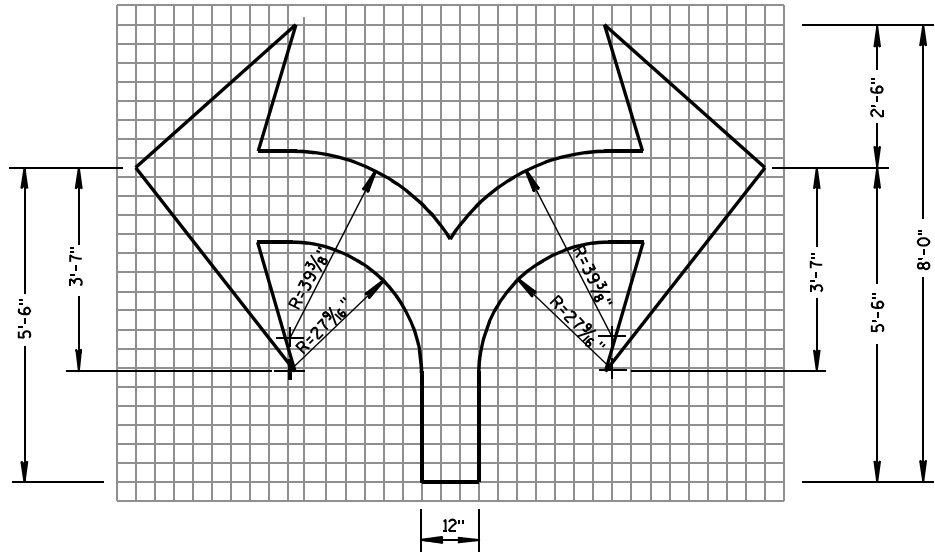
TYPE 2



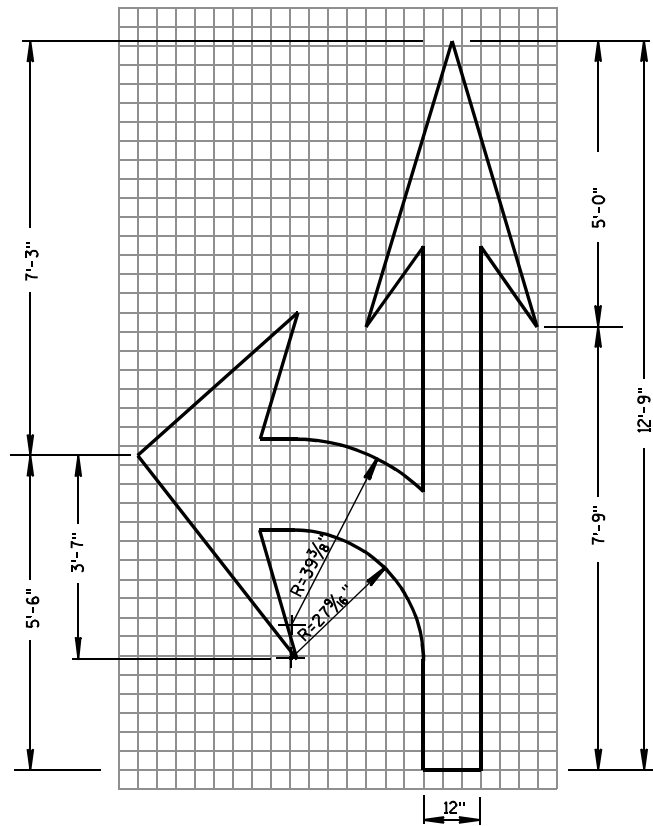
TYPE 1



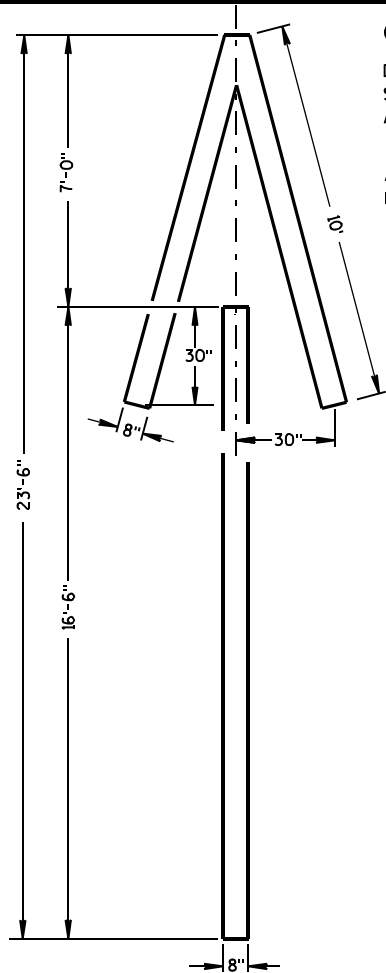
TYPE 6



TYPE 7



TYPE 3

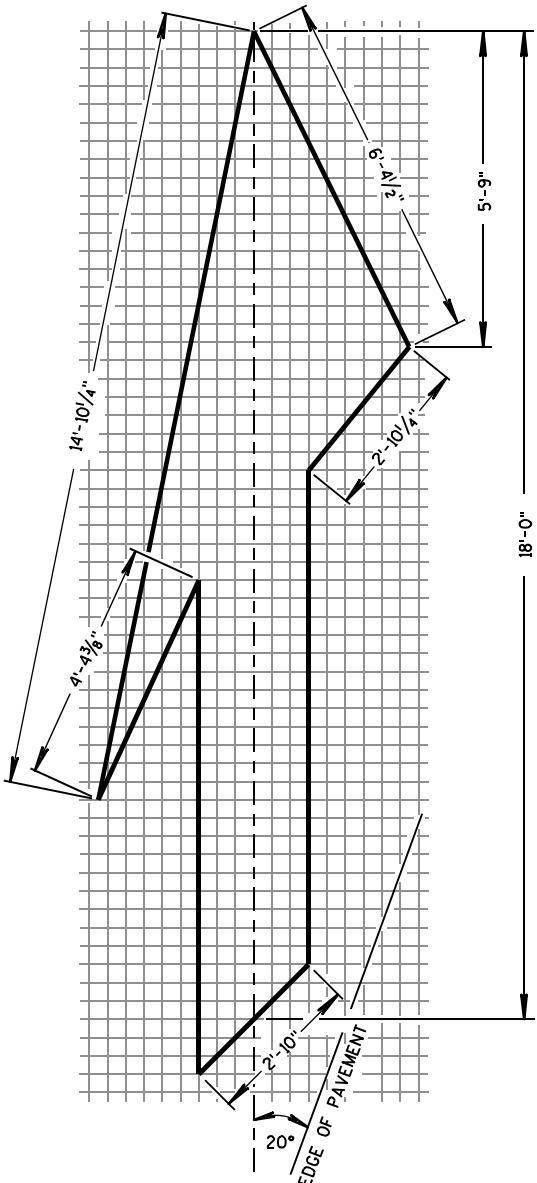


TYPE 4

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

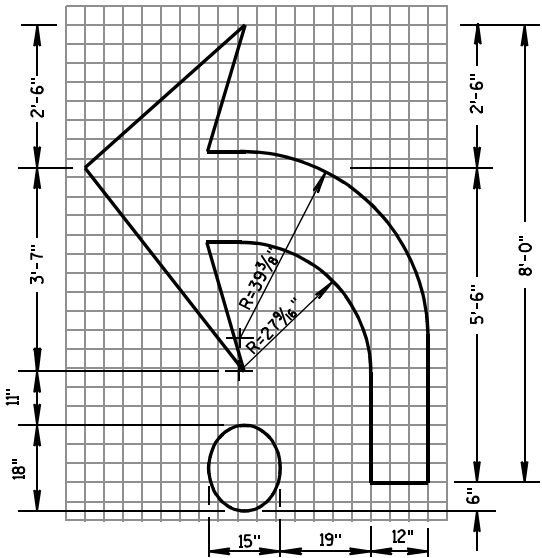
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

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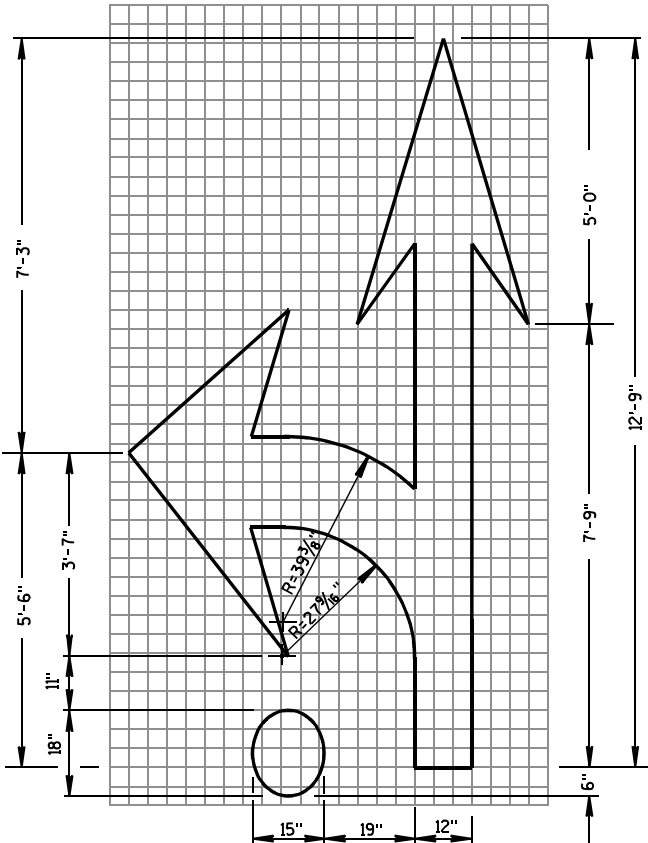
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/S/ Thomas N. Notbohm
STATE TRAFFIC ENGINEER OF DESIGN

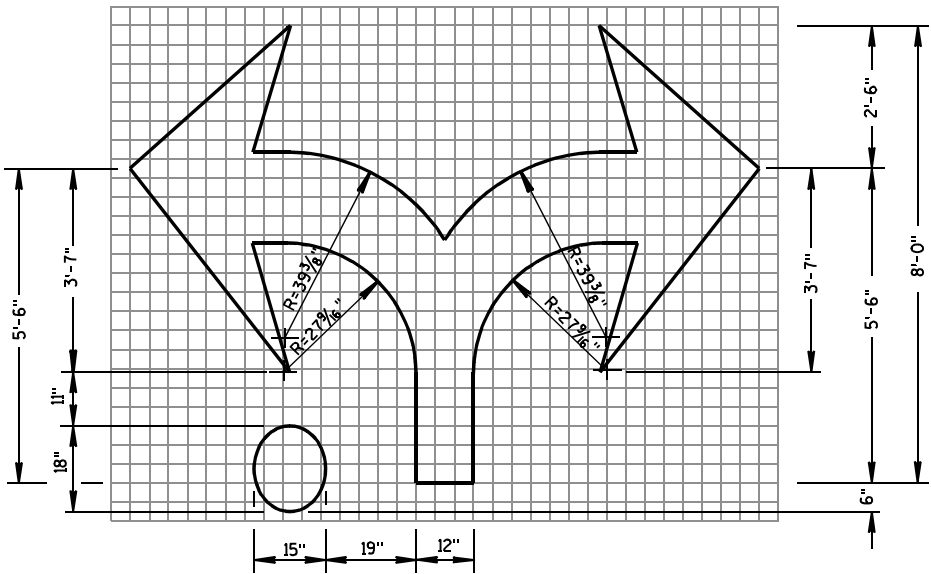
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TYPE 2R



TYPE 3R

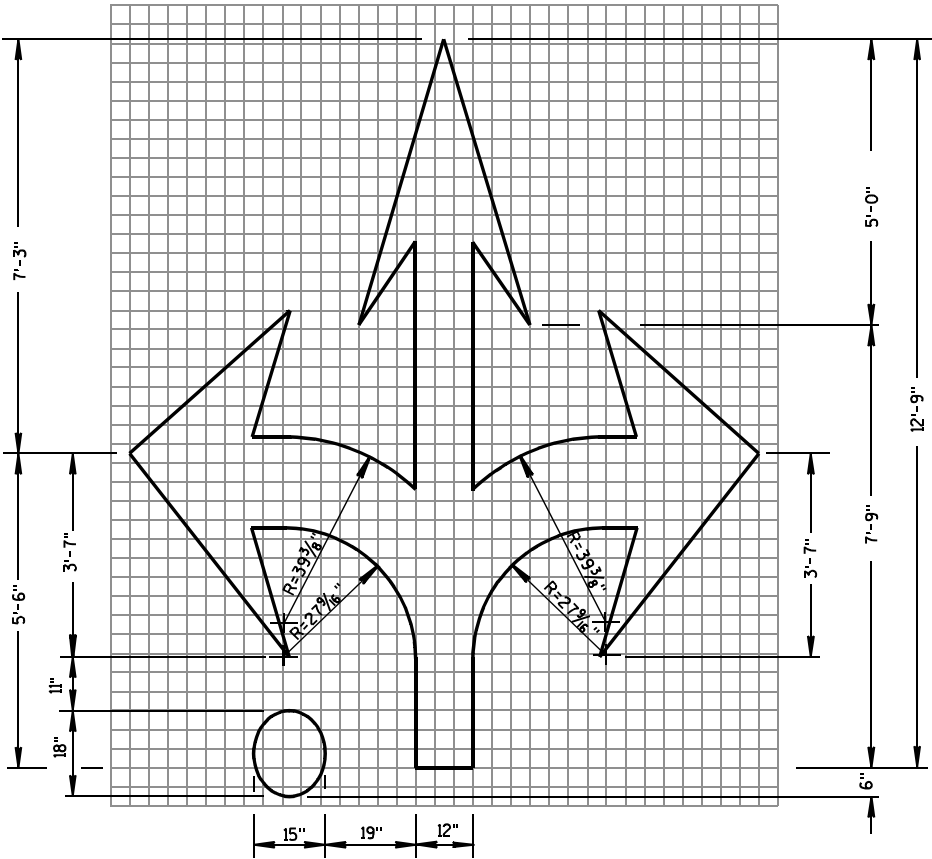


TYPE 7R

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

ROUNDAABOUT ARROWS

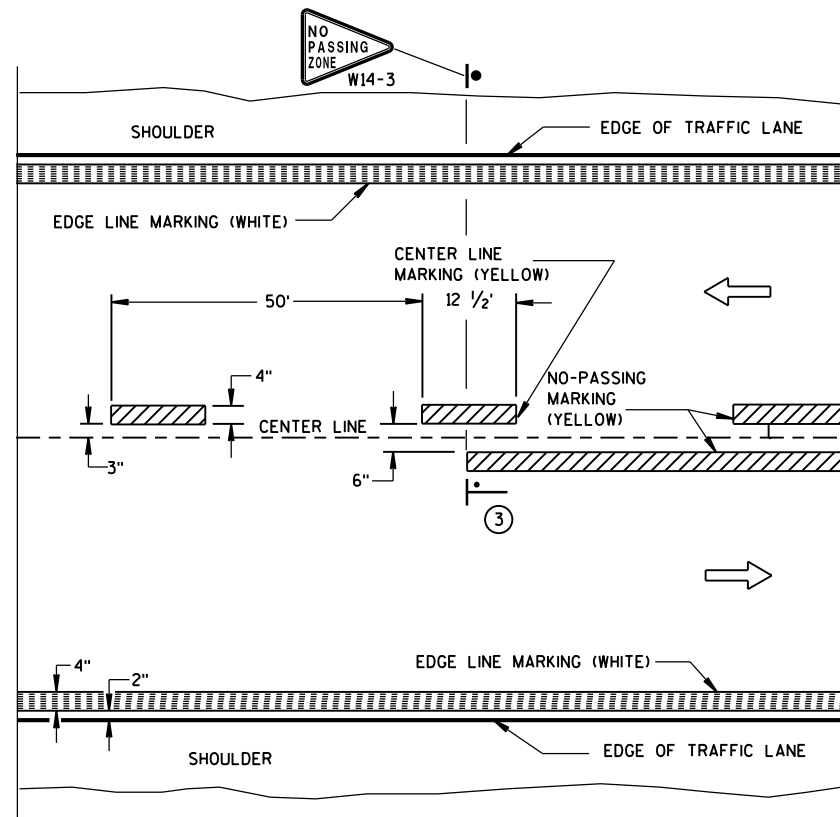
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

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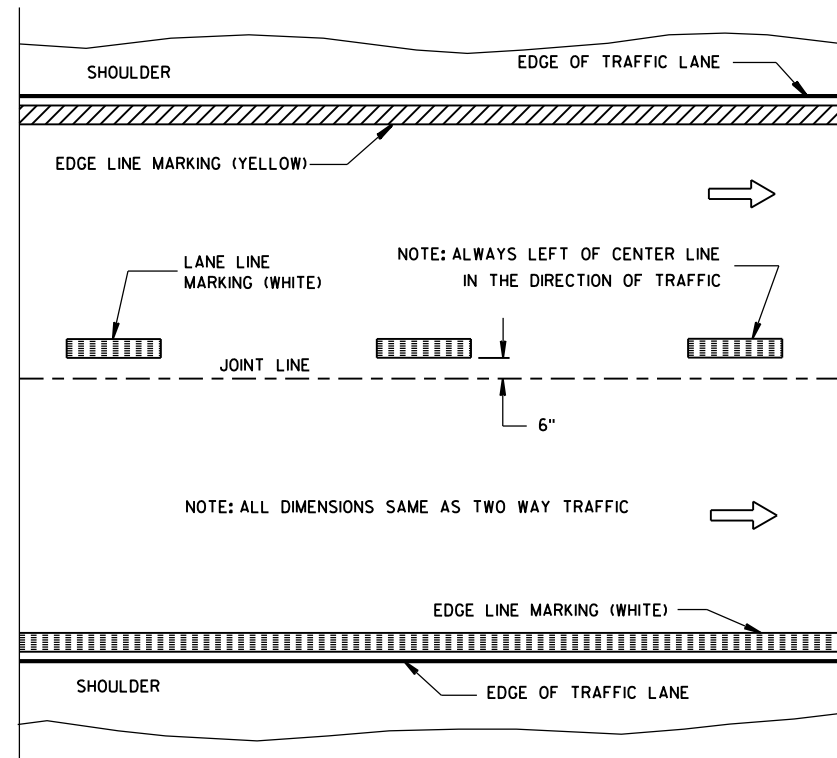
7/1/11
DATE

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

FHWA

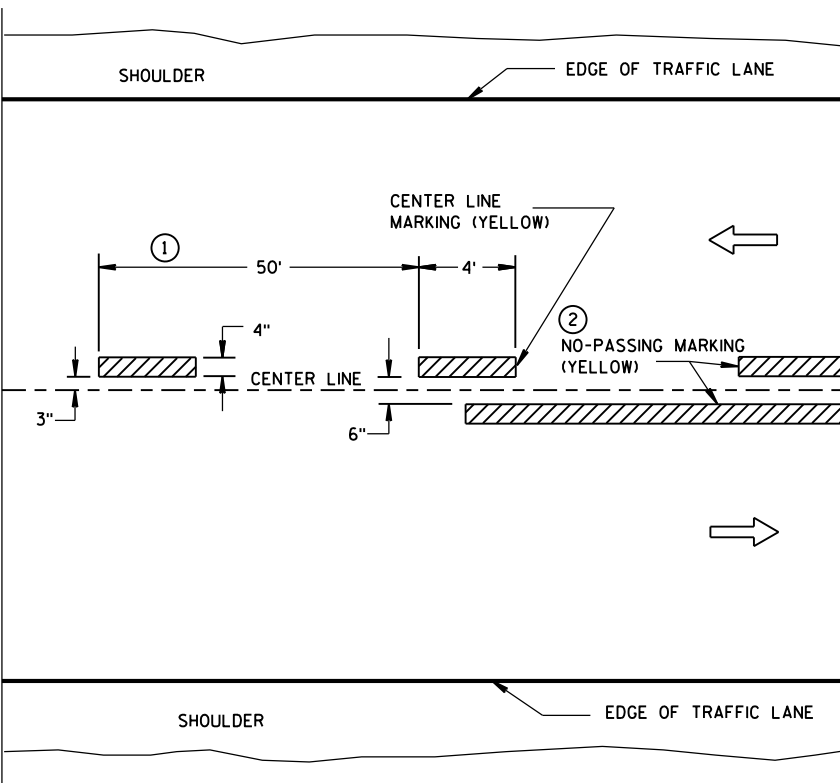


TWO WAY TRAFFIC

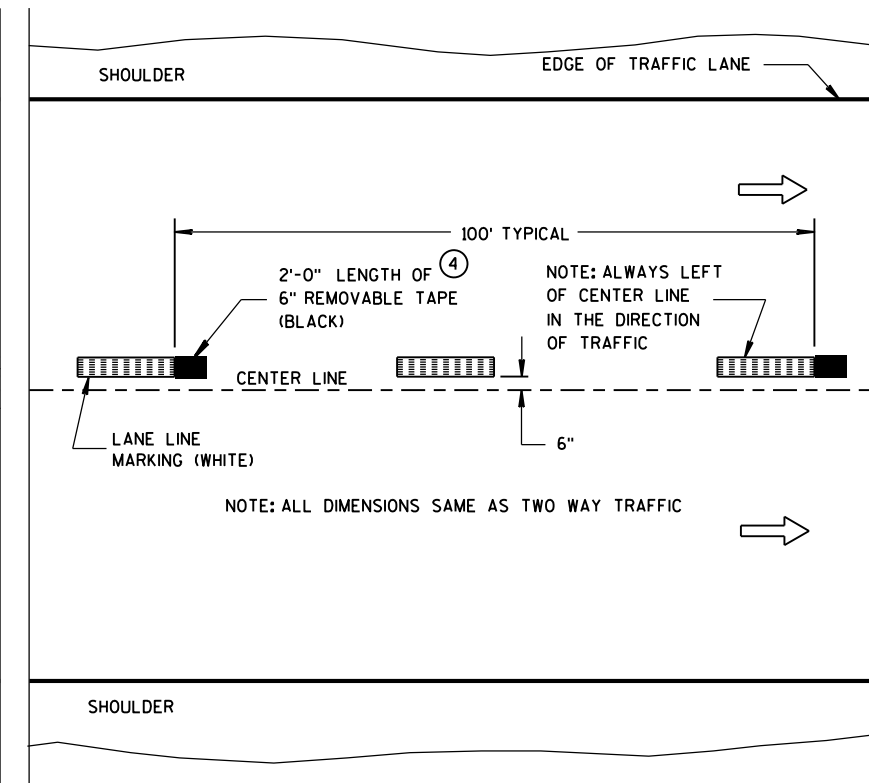


ONE WAY TRAFFIC

PERMANENT PAVEMENT MARKING



TWO WAY TRAFFIC



ONE WAY TRAFFIC

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

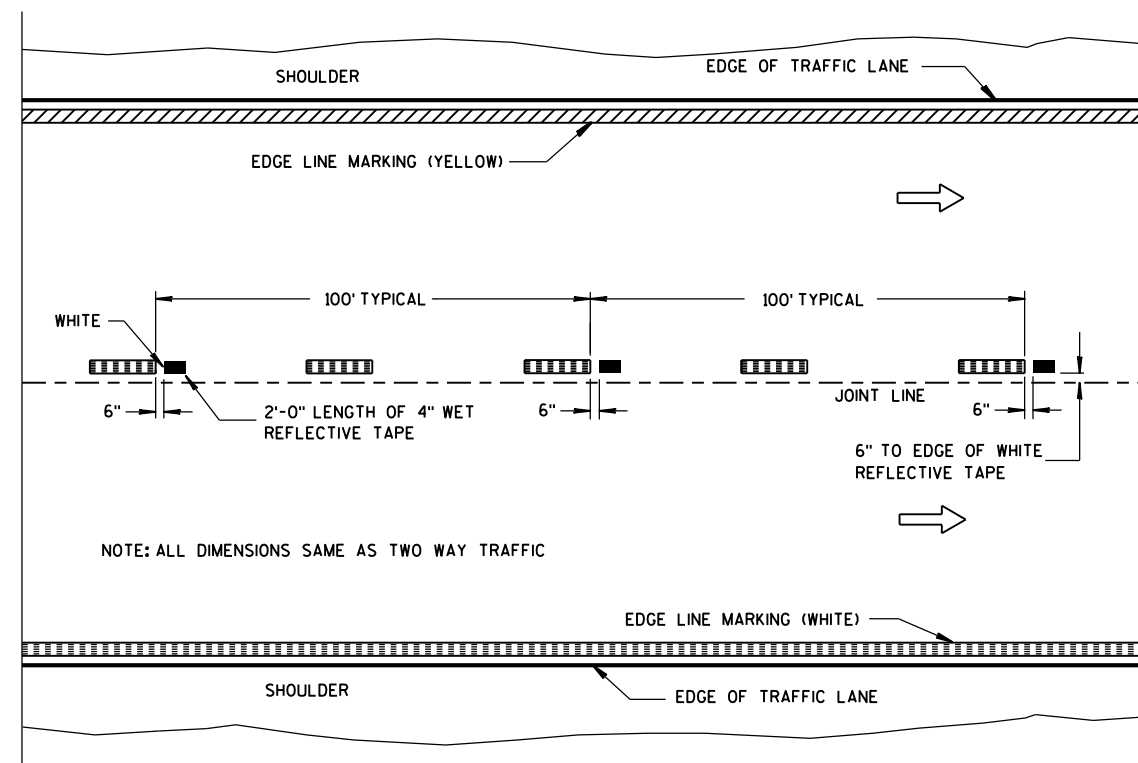
GENERAL NOTES

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

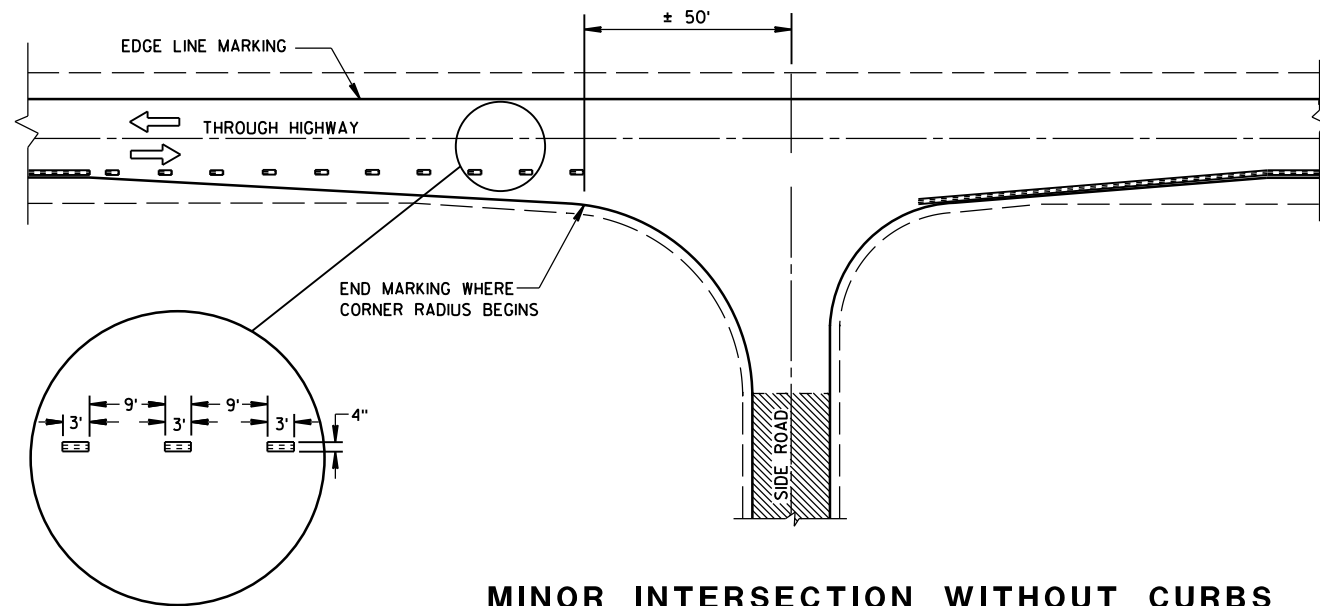
- "T" MARKING
- POST MOUNTED SIGN

PAVEMENT MARKING
(MAINLINE)

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
5-13-2013
DATE
FHWA

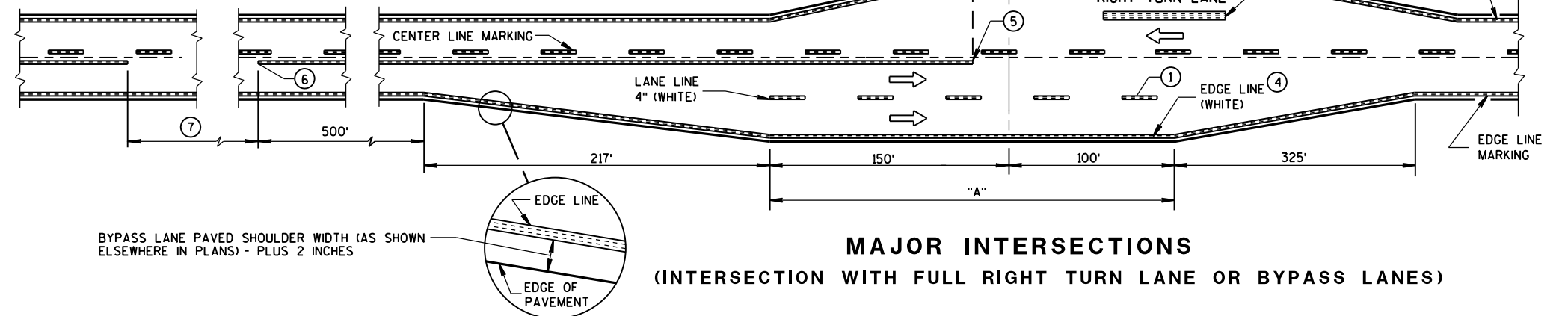
/S/ Travis Feltes
STATE TRAFFIC ENGINEER



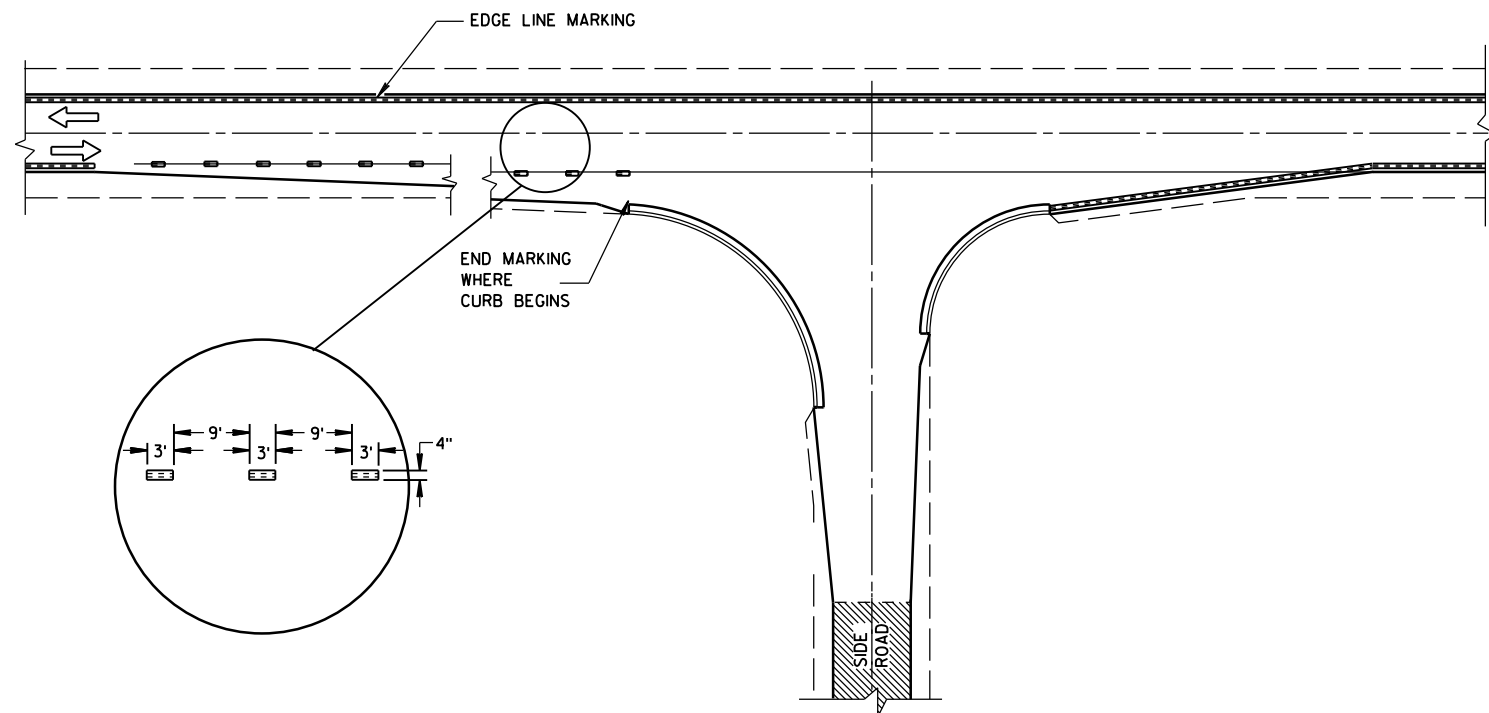
MINOR INTERSECTION WITHOUT CURBS

⑦

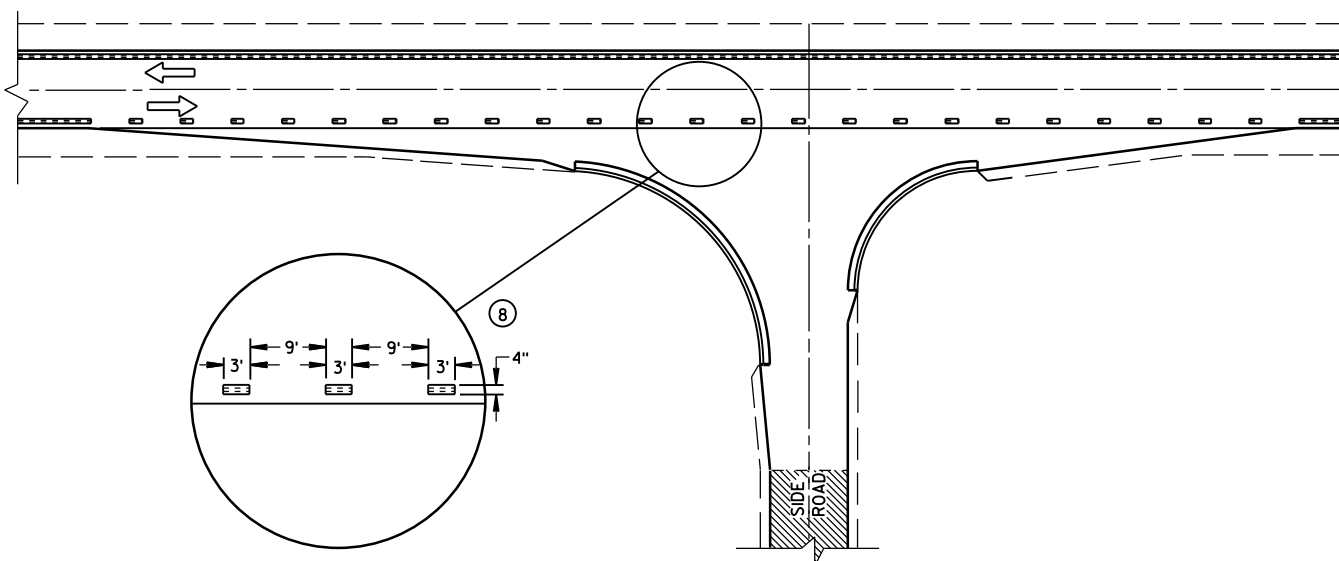
POSTED SPEED (MPH)	MINIMUM DISTANCE BETWEEN ZONES (FEET)
25 - 30	528
35 - 40	528
45 - 50	686
55	792



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



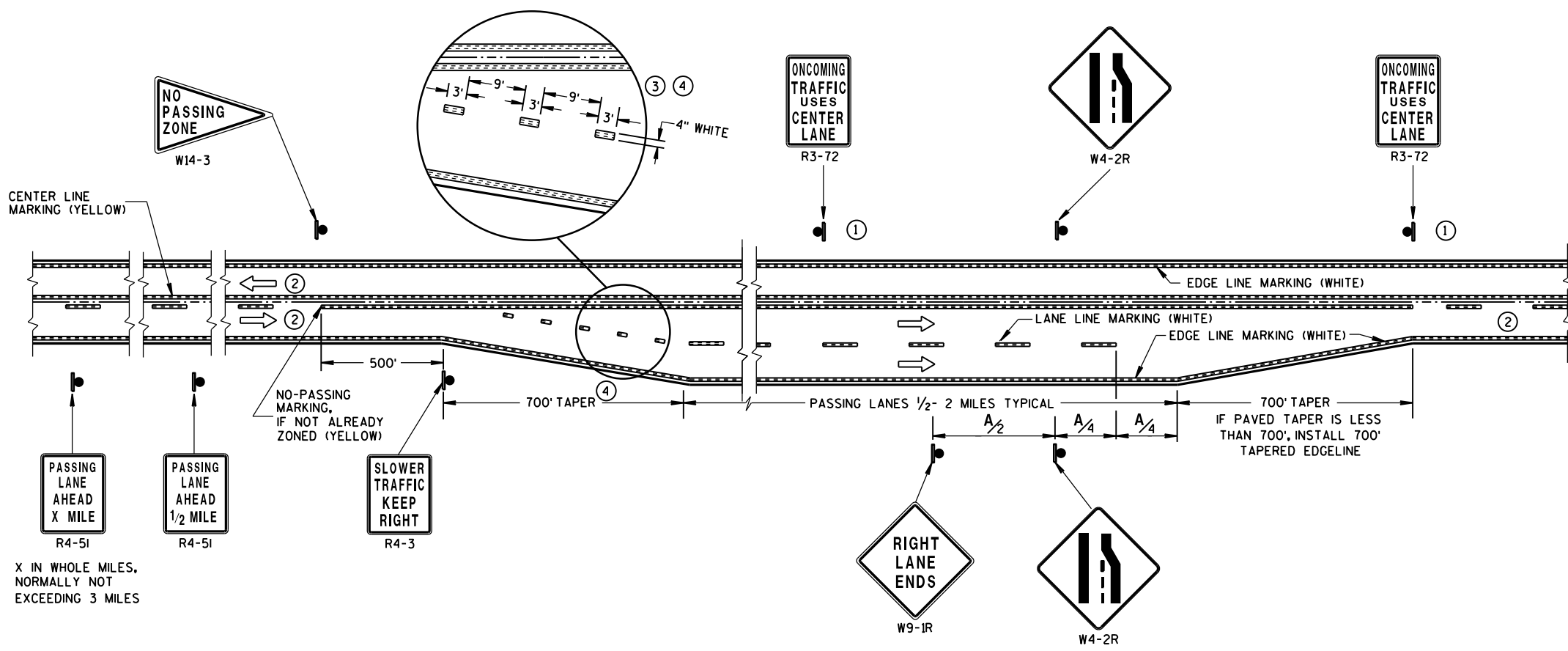
MINOR INTERSECTION WITH CURBS
(TYPICAL MARKING)



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



**SOLID DOUBLE-YELLOW LINE
(THROUGHOUT ENTIRE PASSING/CLIMBING LANE)**

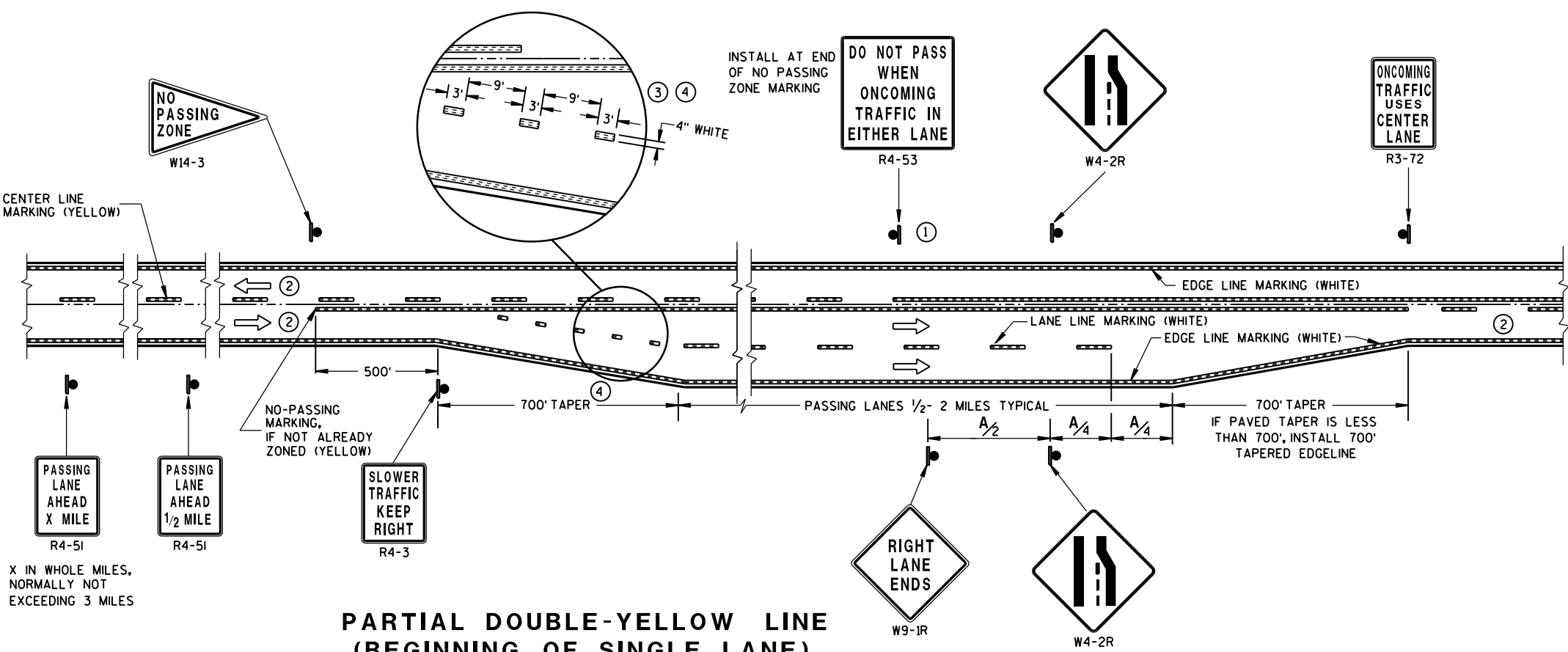
GENERAL NOTES

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

ARROW SYMBOL (➡) SHOWS DIRECTION OF TRAVEL

DISTANCE TABLE

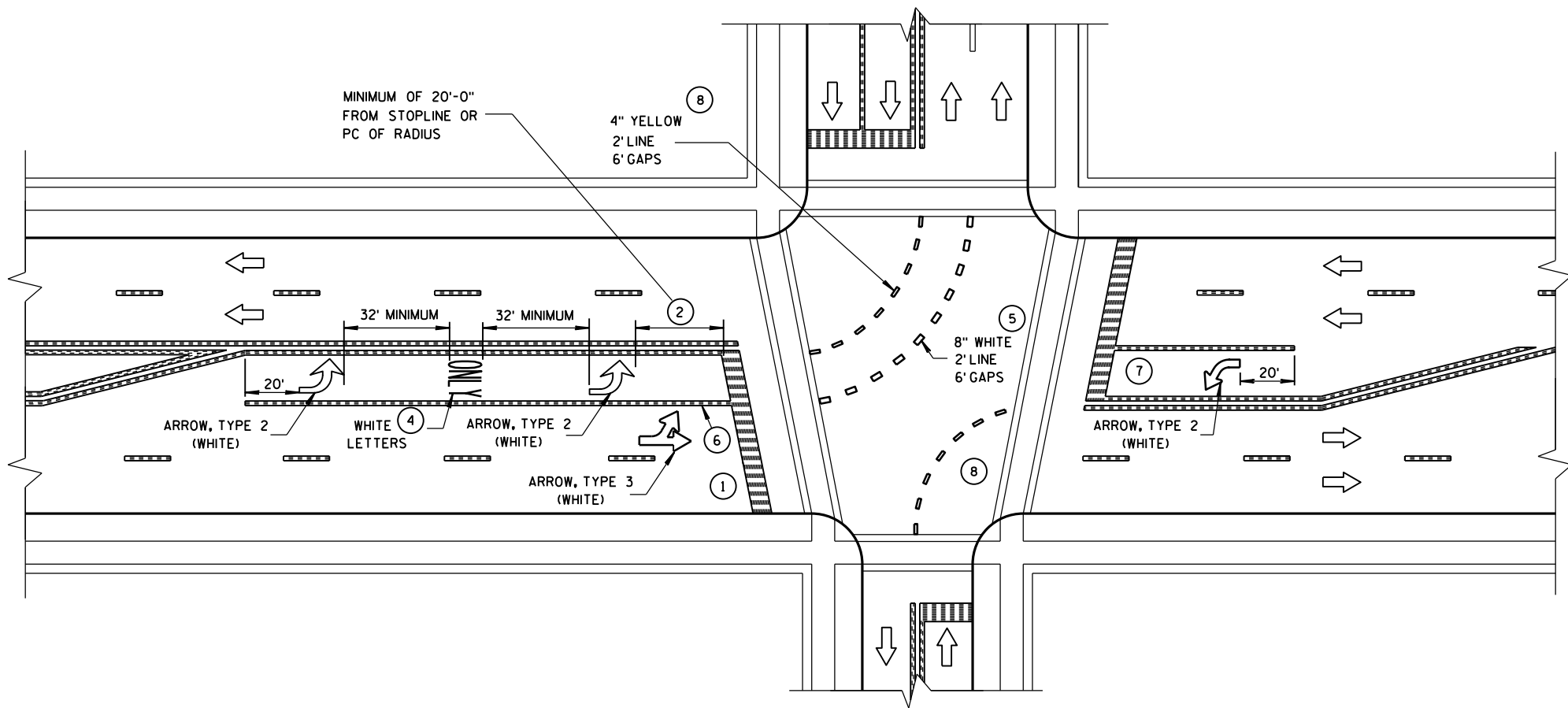
POSTED OR 85th PERCENTILE SPEED	DISTANCE "A"
45	750
50	850
55	950



**PARTIAL DOUBLE-YELLOW LINE
(BEGINNING OF SINGLE LANE)**

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

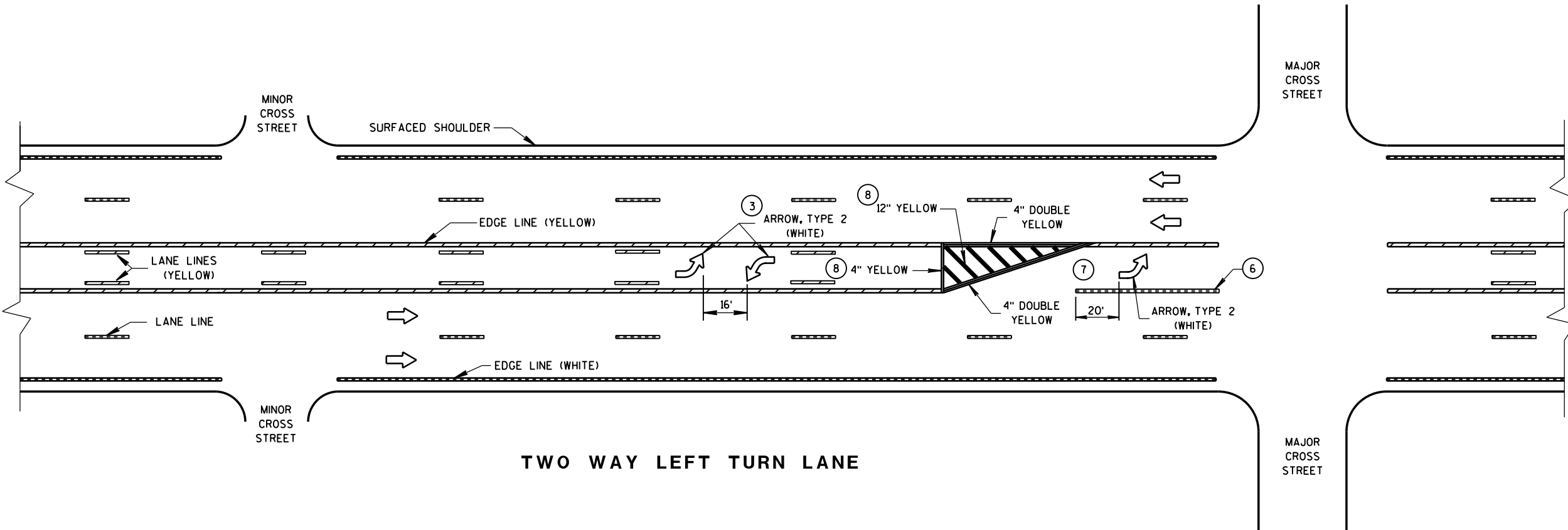
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION



GENERAL NOTES

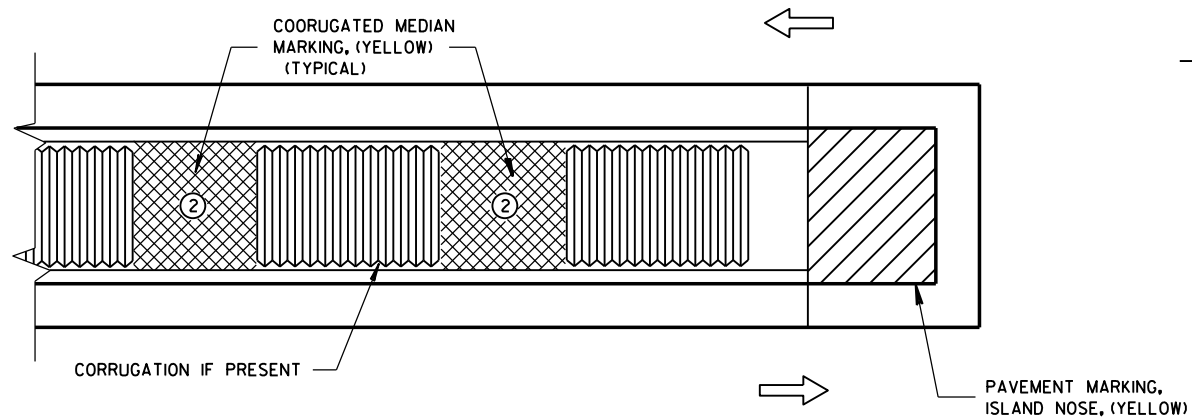
- 1 STOP BAR IS REQUIRED ONLY WHEN SPECIFIED IN THE CONTRACT.
- 2 DISTANCE MAY BE ADJUSTED TO ACCOMODATE SHORT LEFT TURN LANES. AS APPROVED BY THE ENGINEER.
- 3 A SET OF ARROWS IS REQUIRED EVERY 400 FEET OR NEAR INTERSECTIONS OR DRIVEWAYS WITH TURNING TRAFFIC.
- 4 ADD EXTRA SETS OF ONE ARROW AND ONE ONLY PER 160 FEET OR WHEN ON A CURVE.
- 5 8" WHITE WITH 2' LINE 6' GAPS FOR DUAL TURN LANE.
- 6 8" WHITE
- 7 ADD SECOND ARROW WHEN TURN BAY IS GREATER THAN OR EQUAL TO 108 FEET.
- 8 REQUIRED ONLY WHEN SPECIFIED IN THE CONTRACT.

NOTE:
ARROW SYMBOL (➡)
SHOWS DIRECTION OF TRAVEL

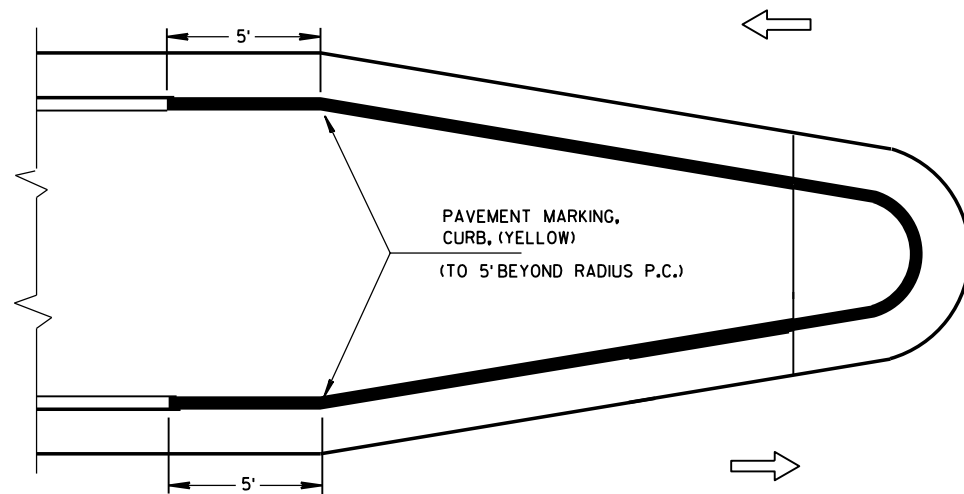


PAVEMENT MARKING
(LEFT TURN LANE)

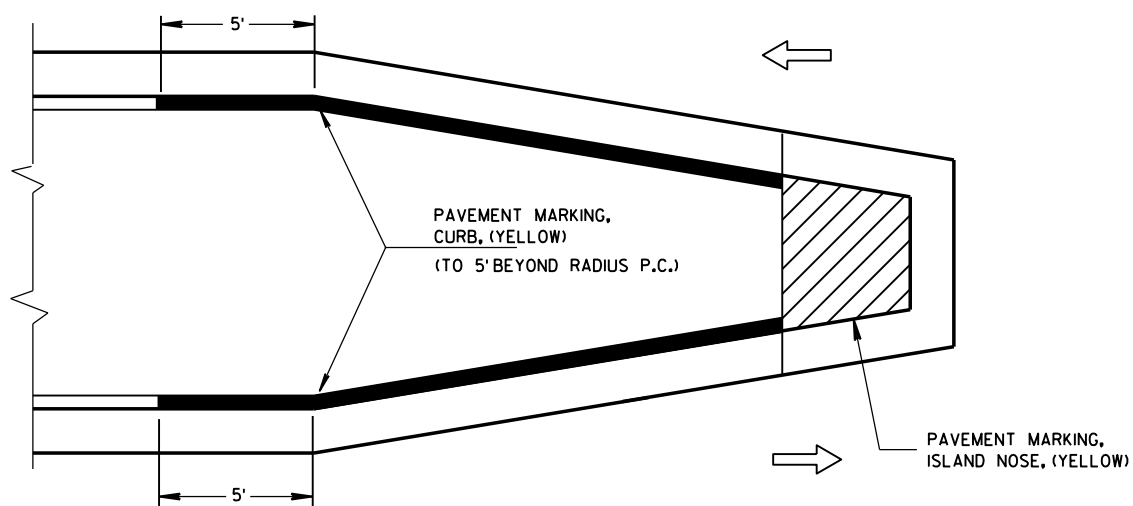
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION



MEDIAN ISLAND WITH SQUARE BLUNT NOSE

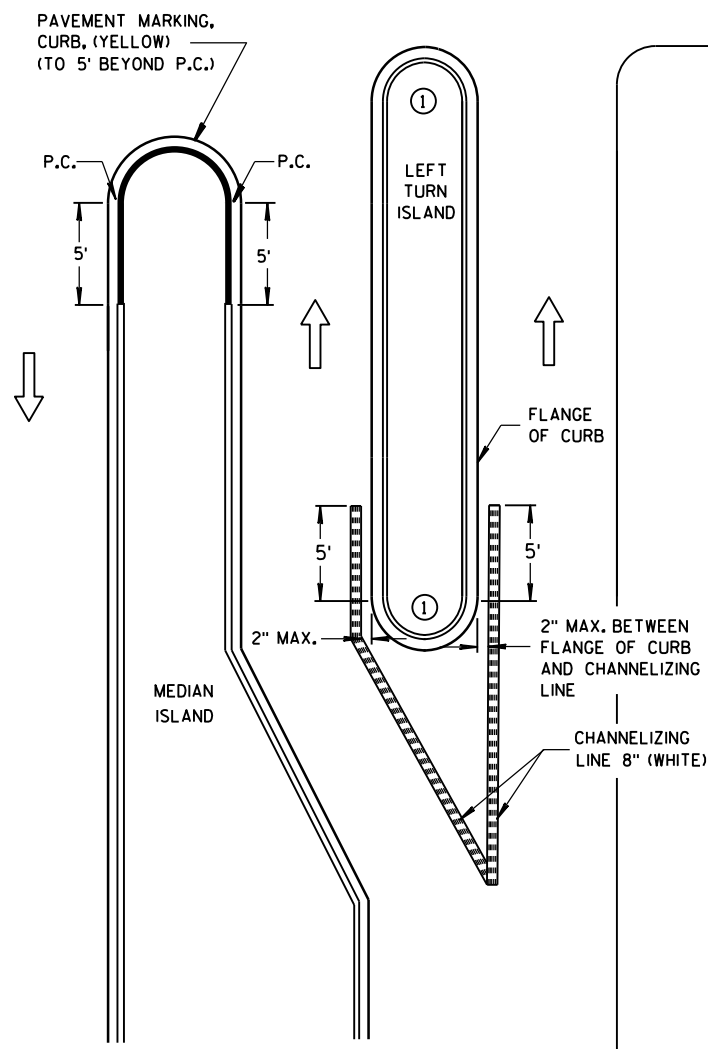


MEDIAN ISLAND WITH ROUND BLUNT NOSE



MEDIAN ISLAND WITH SLOPED NOSE

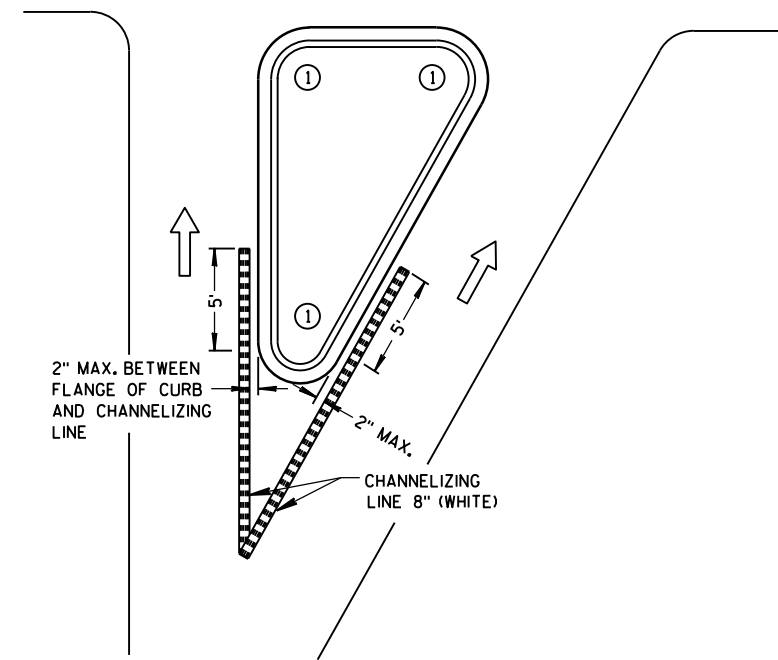
TYPICAL PLACEMENT OF PAVEMENT MARKING ON MEDIAN ISLANDS



LEFT TURN & MEDIAN ISLAND

GENERAL NOTES

- DO NOT MARK CURB NOSES THAT SEPARATE LANES OF TRAFFIC TRAVELING IN THE SAME DIRECTION.
- 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.



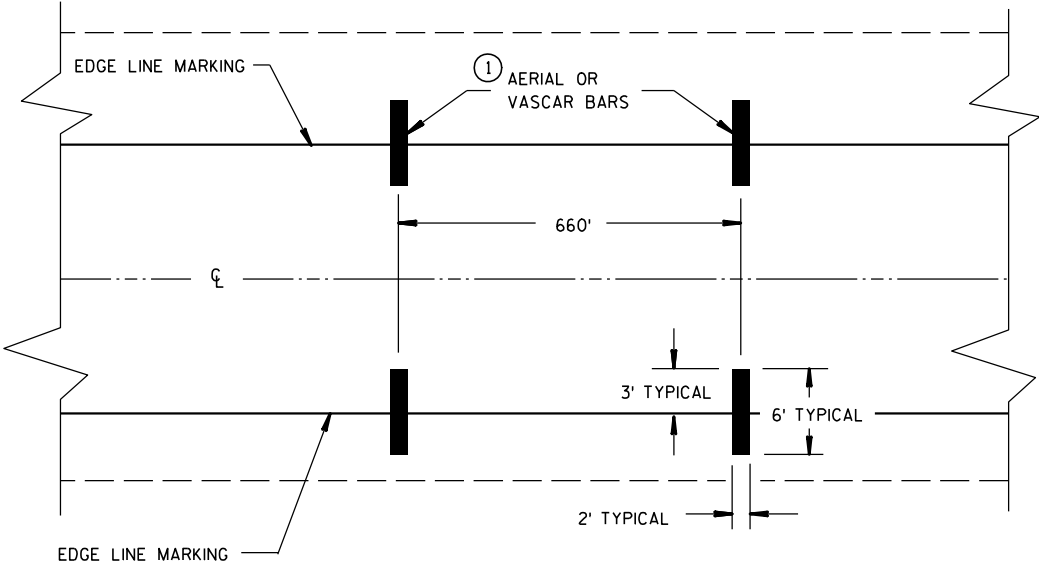
RIGHT TURN ISLAND

LEGEND

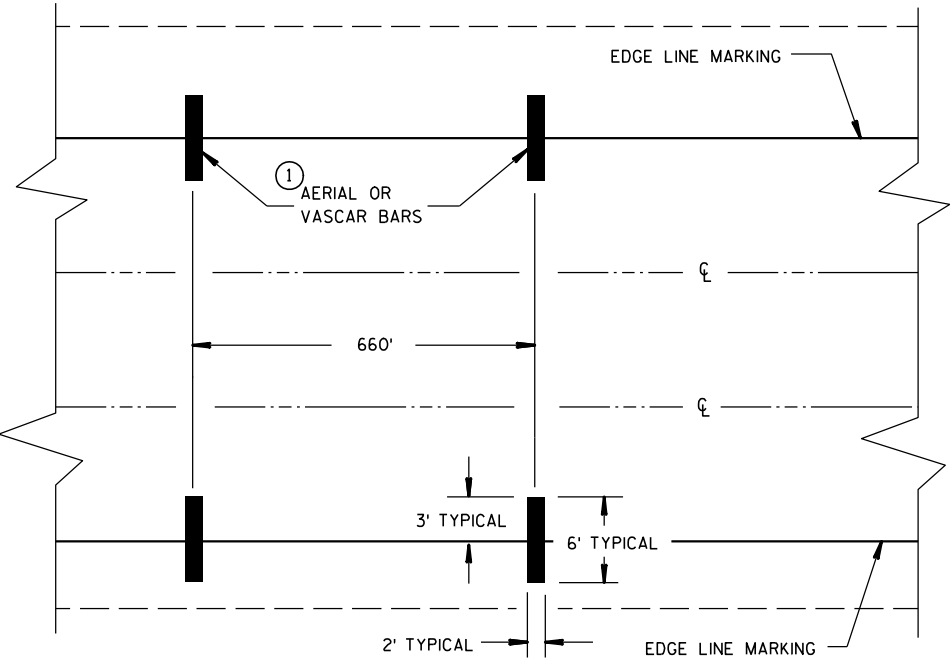
- ISLAND NOSE MARKING
- CURB MARKING
- CORRUGATED MEDIAN MARKING
- DIRECTION OF TRAVEL

PAVEMENT MARKING (ISLANDS)

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION



TYPICAL FOR TWO WAY OR ONE WAY TRAFFIC



TYPICAL FOR MULTILANE TRAFFIC

SPEED ENFORCEMENT ZONE WITH AERIAL OR VASCAR BARS

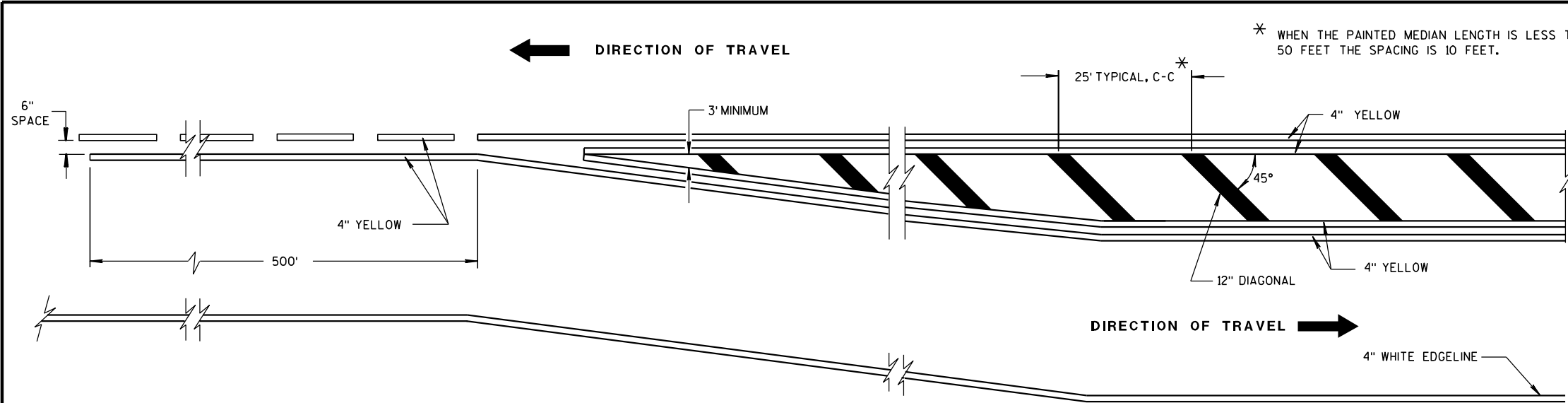
GENERAL NOTES

- 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

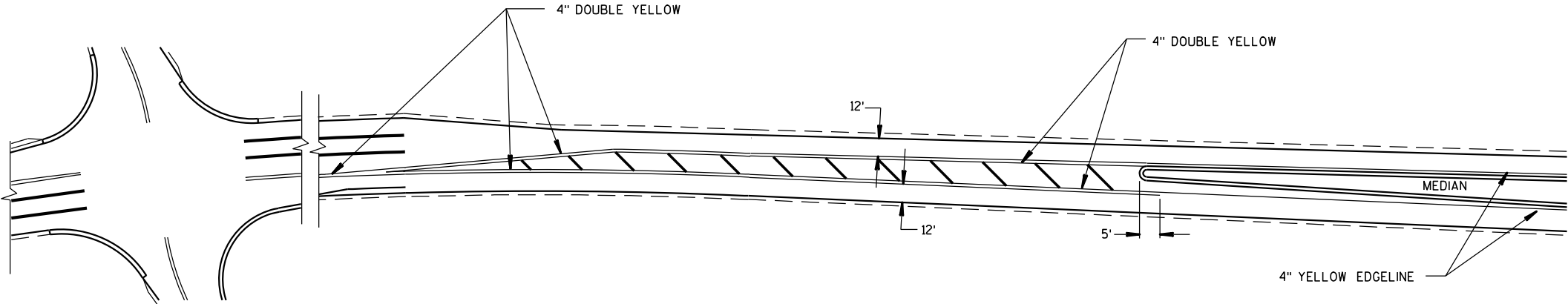
APPROVED
4/23/01 /S/ Chester J. Spang
DATE CHIEF SIGNS AND MARKING ENGINEER
FHWA



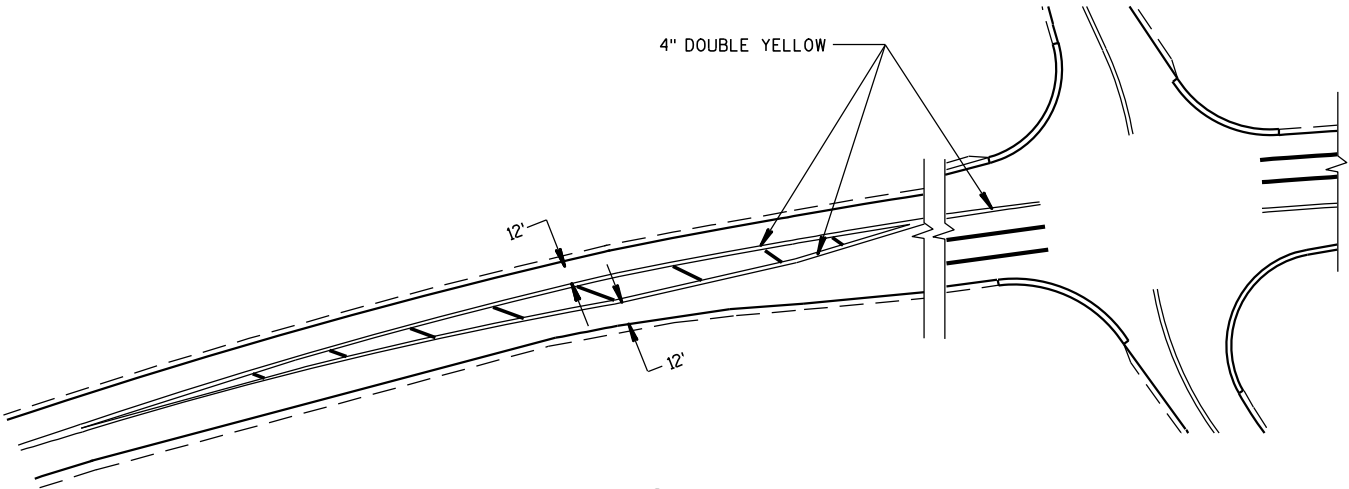
MEDIAN ISLAND DETAIL

GENERAL NOTE

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

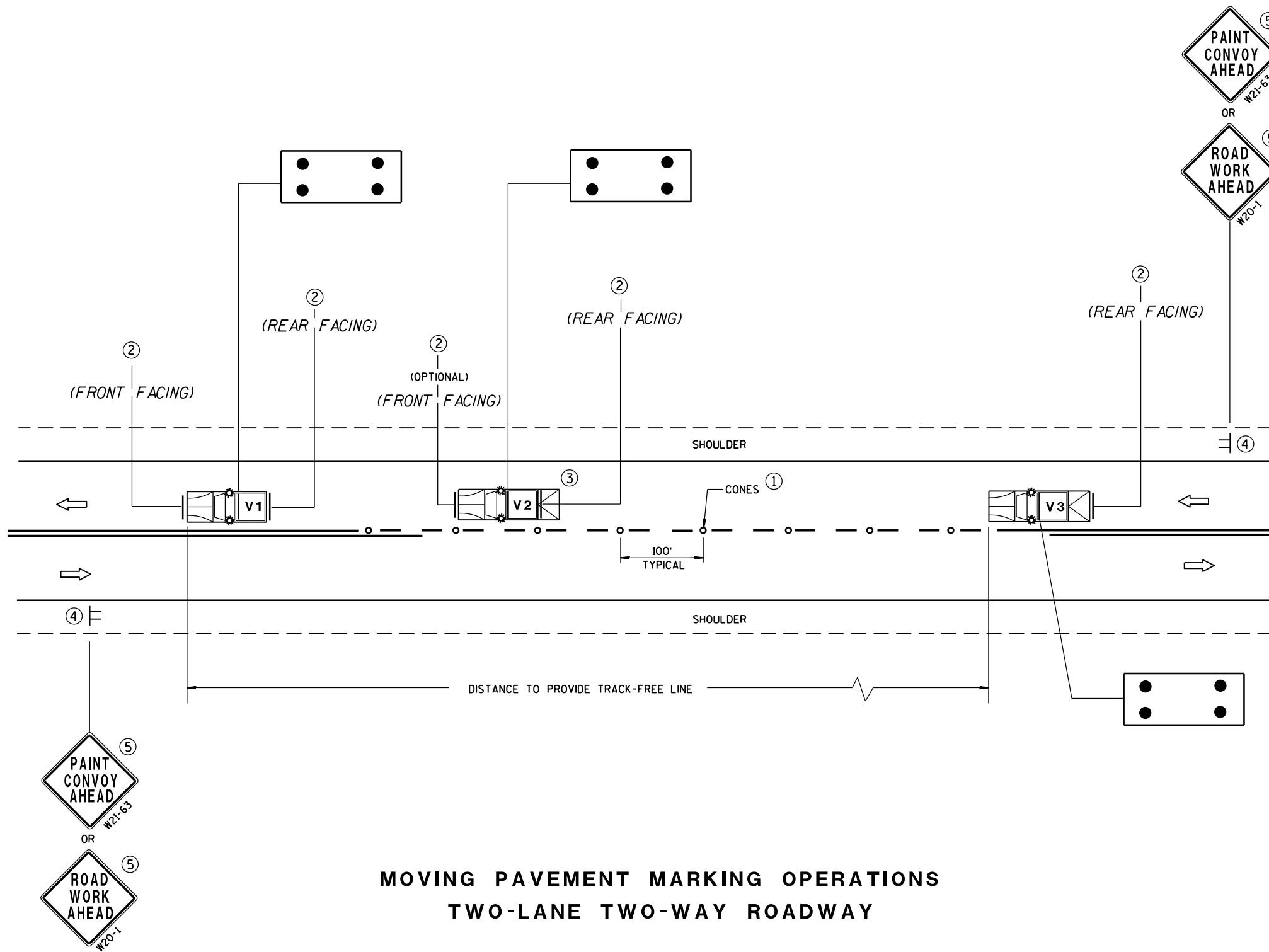


APPROACH MARKINGS FOR OTHER MEDIAN TYPES



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.

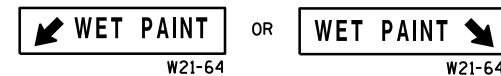
THE WORK AND SHADOW VEHICLES SHOULD PULL OVER PERIODICALLY TO ALLOW TRAFFIC TO PASS.

THIS DRAWING SHALL BE USED FOR CENTERLINE OR 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.



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
OPERATION
TWO-LANE TWO-WAY ROADWAY

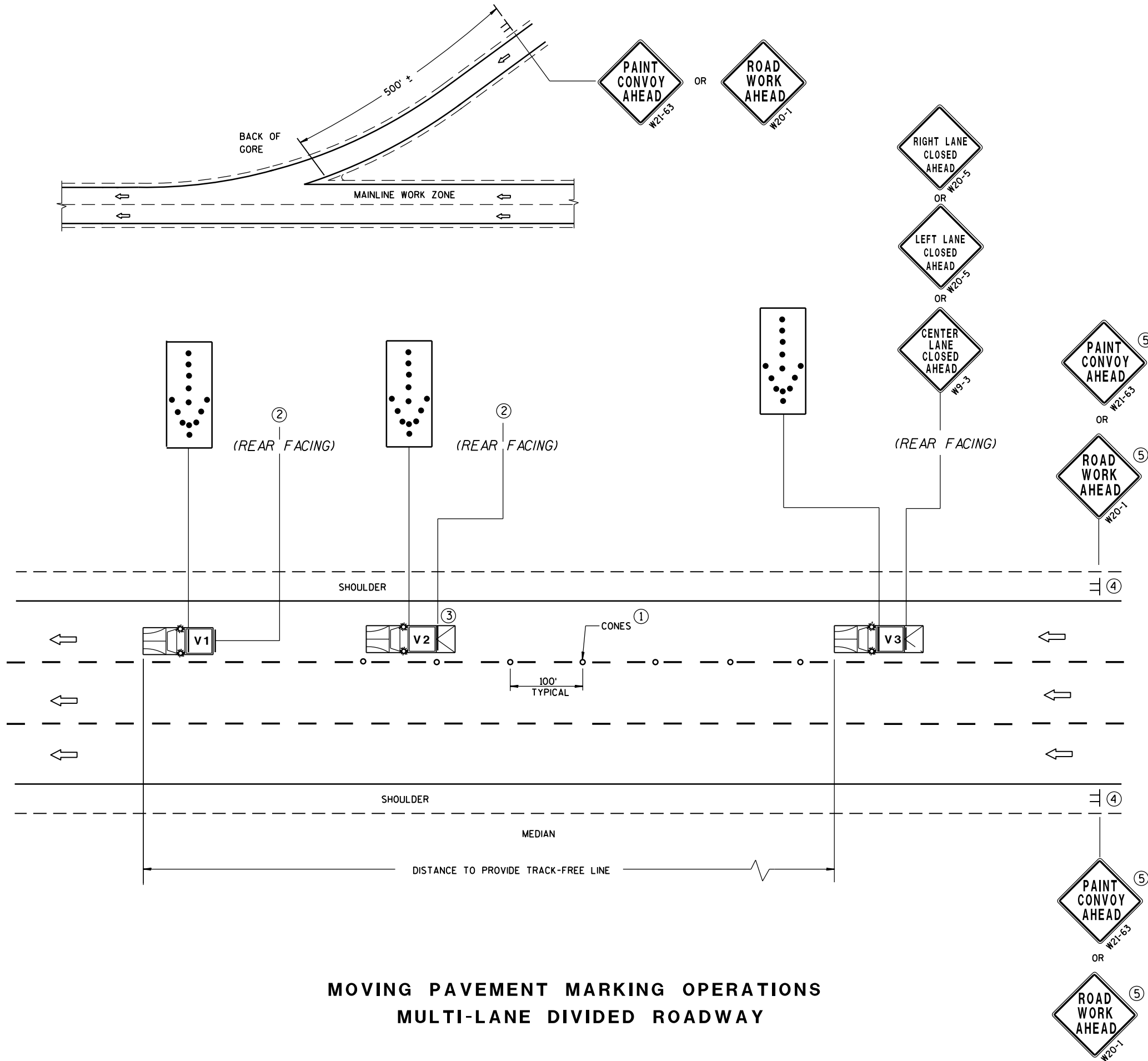
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED

5/3/2013
DATE

/S/ Travis Feltes
STATE TRAFFIC ENGINEER

FHWA



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.

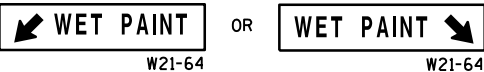
USE AN ATTENUATOR ON THE REARMOST VEHICLE THAT BLOCKS ALL OR PART OF THE TRAFFIC LANE.

FOR EDGE LINE 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 EDGE LINE OR LANELINE MARKING FOR MULTILANE DIVIDED ROADWAYS.

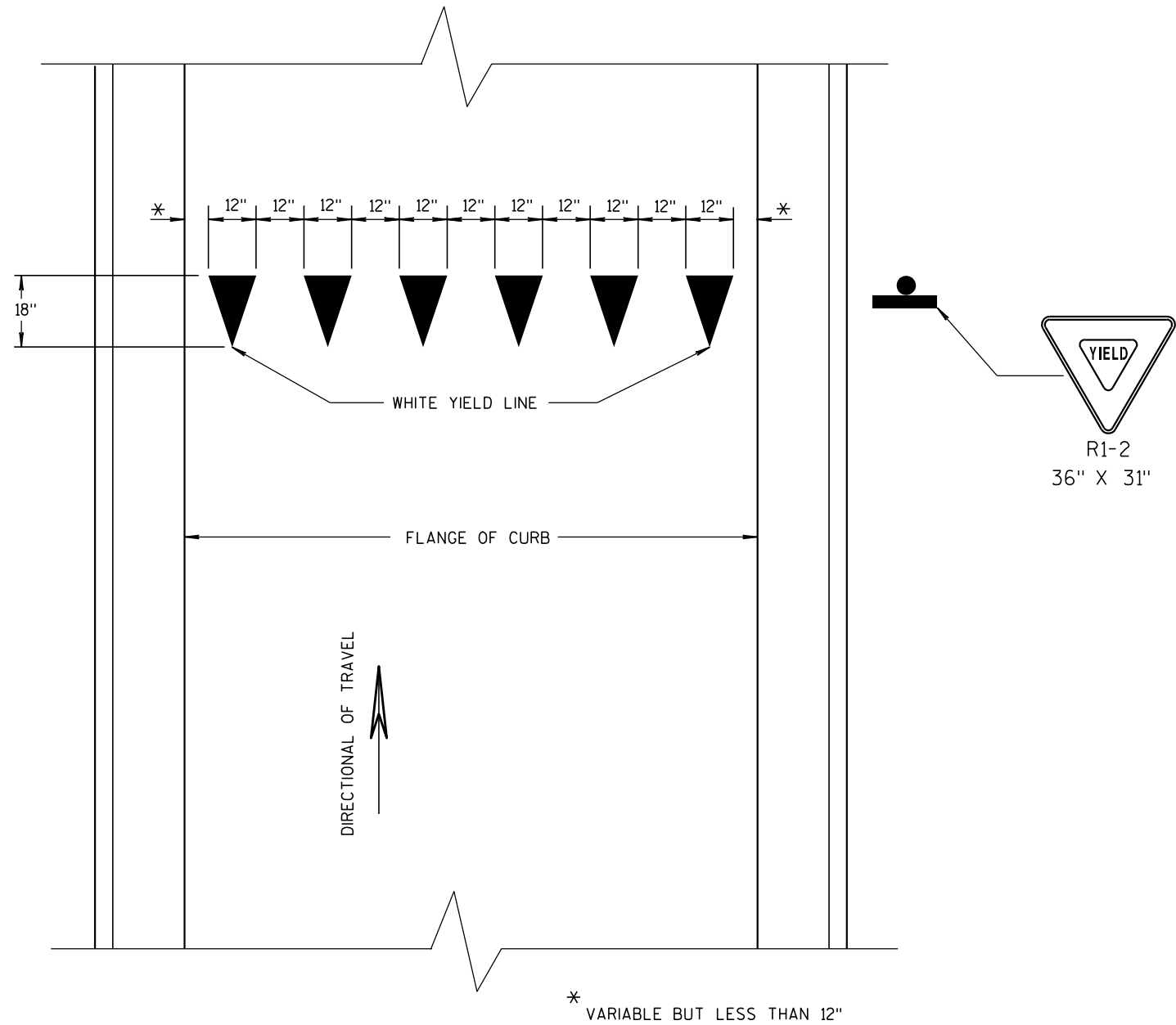
- ① CONES MAY BE OMITTED ON PAINTED LINE IF APPROVED BY THE ENGINEER. CONSIDER PAVEMENT MARKING DRY OR CURE TIMES AND TRAFFIC VOLUME.
- ② USE STANDARD SIGN W21-64 WITH APPROPRIATE ARROW.
- ③ OPTIONAL TRUCK-MOUNTED ATTENUATOR.
- ④ SIGNS SHALL BE REPEATED AFTER EVERY ON RAMP OR EVERY THREE MILES.
- ⑤ IF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



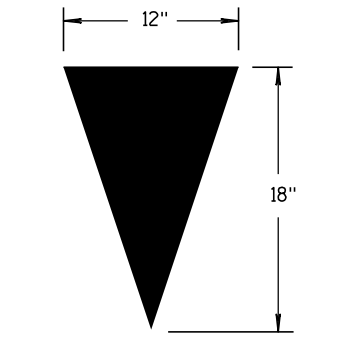
LEGEND

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

MOVING PAVEMENT MARKING OPERATION MULTI-LANE DIVIDED ROADWAY	
STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION	
APPROVED 5/3/2013 DATE	/S/ Travis Feltes STATE TRAFFIC ENGINEER
FHWA	

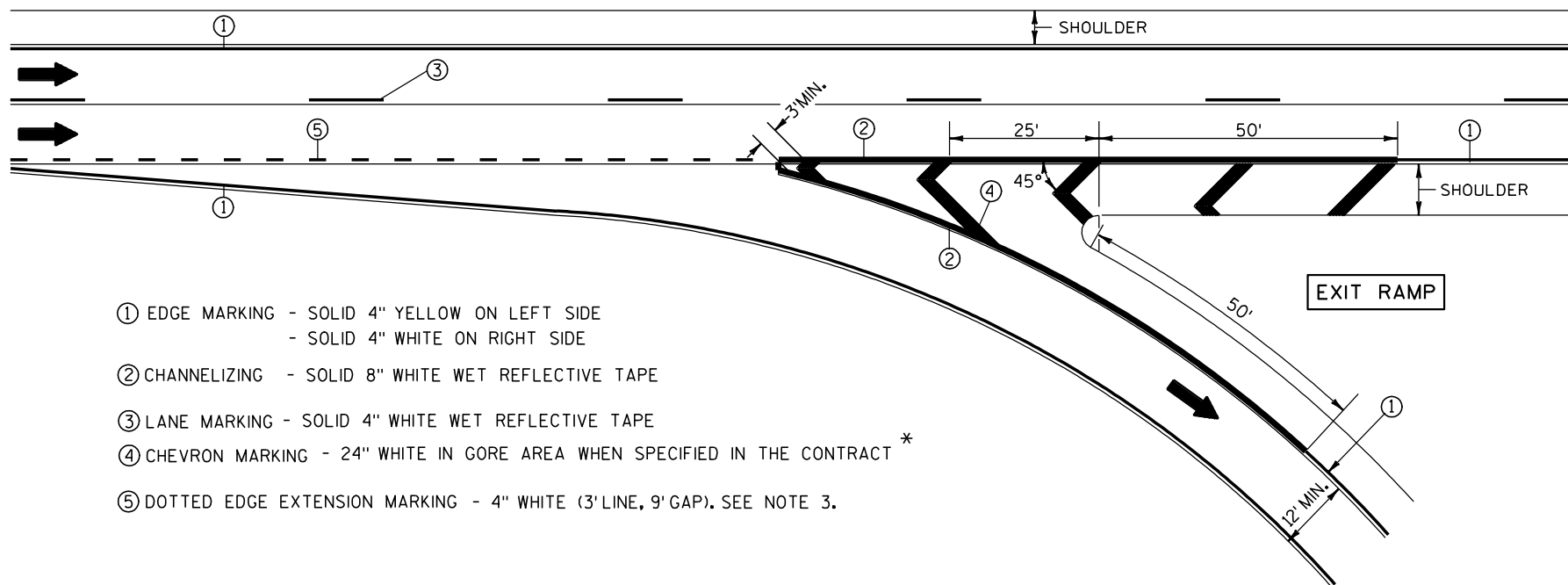


YIELD LINE



YIELD TRIANGLE

YIELD MARKINGS	
STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION	
APPROVED 1/28/05 DATE	/S/ Thomas N. Notbohm STATE TRAFFIC ENGINEER OF DESIGN
FHWA	

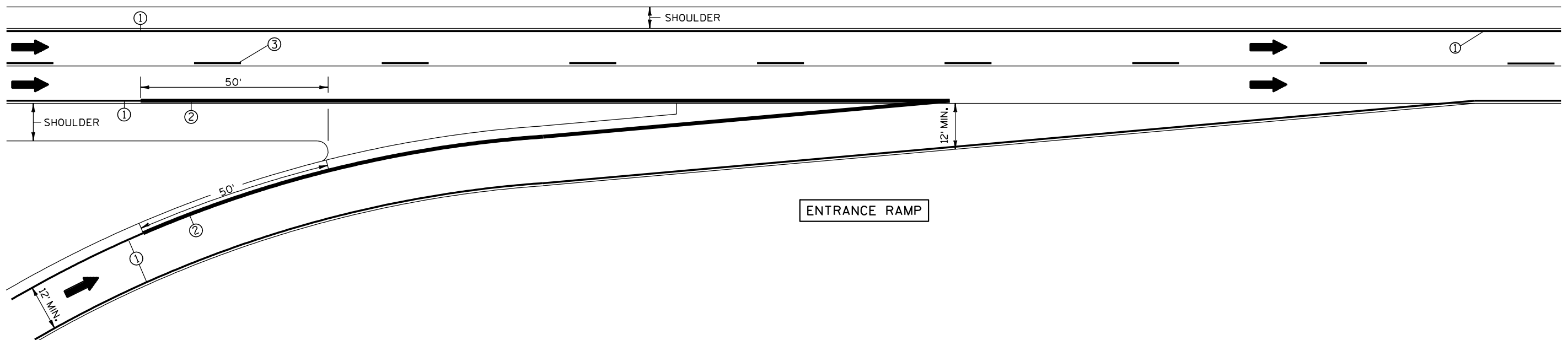


- ① EDGE MARKING - SOLID 4" YELLOW ON LEFT SIDE
- SOLID 4" WHITE ON RIGHT SIDE
- ② CHANNELIZING - SOLID 8" WHITE WET REFLECTIVE TAPE
- ③ LANE MARKING - SOLID 4" WHITE WET REFLECTIVE TAPE
- ④ CHEVRON MARKING - 24" WHITE IN GORE AREA WHEN SPECIFIED IN THE CONTRACT *
- ⑤ DOTTED EDGE EXTENSION MARKING -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

NOTES:

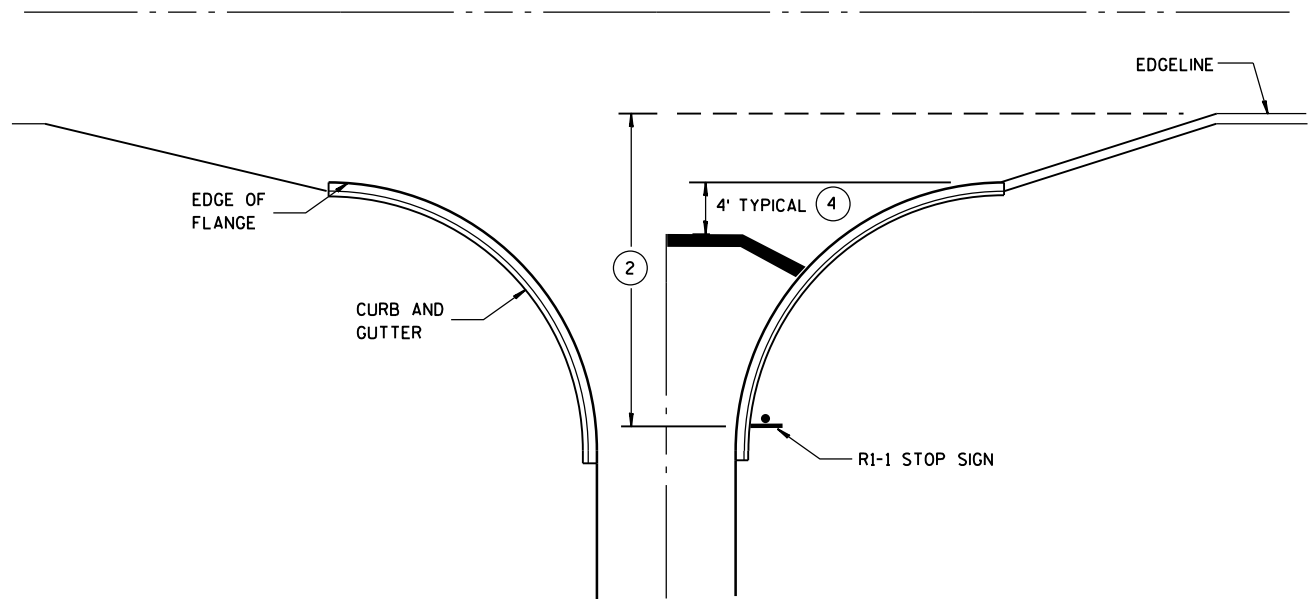
- 1. ARROWS SHOWN ON THIS MARKING PLAN DESIGNATE TRAFFIC FLOW, AND SHALL NOT BE TAKEN AS PROPOSED PAVEMENT MARKINGS.
- 2. PLACE WHITE EDGE OF TAPE 6" LEFT FROM JOINT.
- 3. 3' LINE 9' GAP, EXCEPT RETRACE THE EXISTING LINE-GAP PATTERN WHERE EXISTING MARKINGS ARE IN PLACE.
- 4. RETRACE EXISTING DIAGONAL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

* REFER TO DESIGN NOTES.

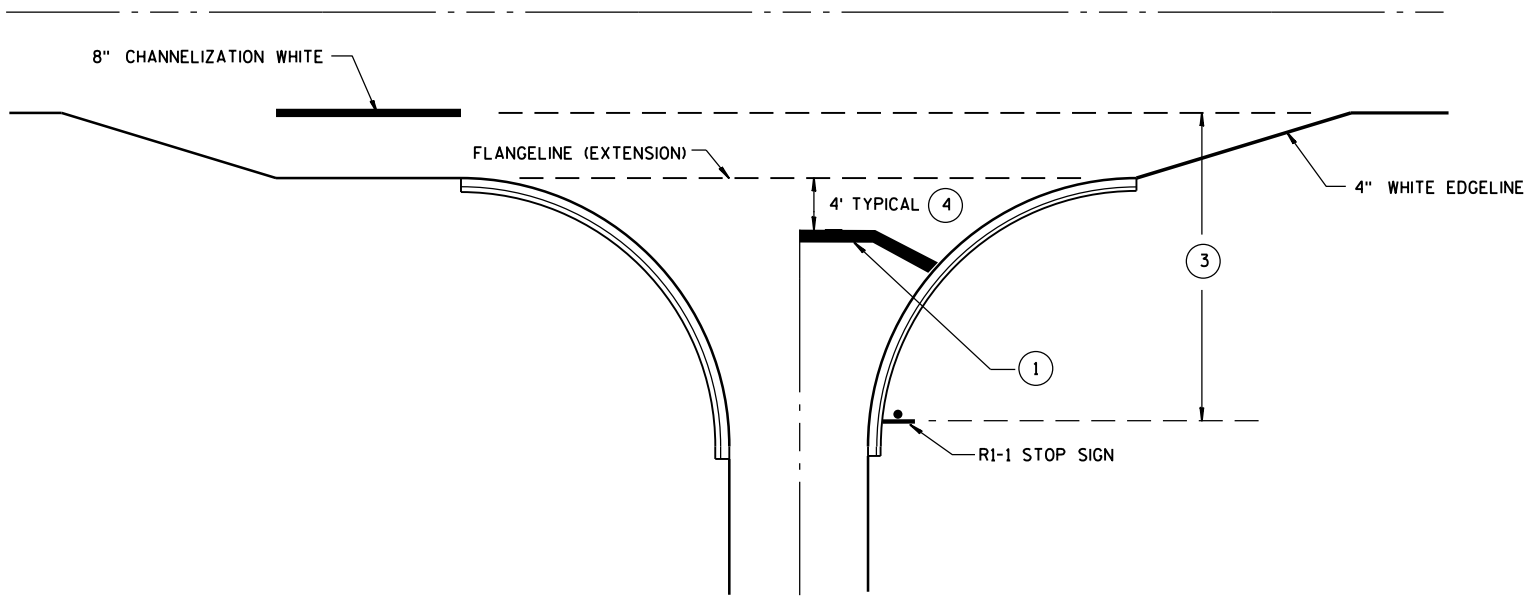


PAVEMENT MARKING
(RAMPS AND GORES)

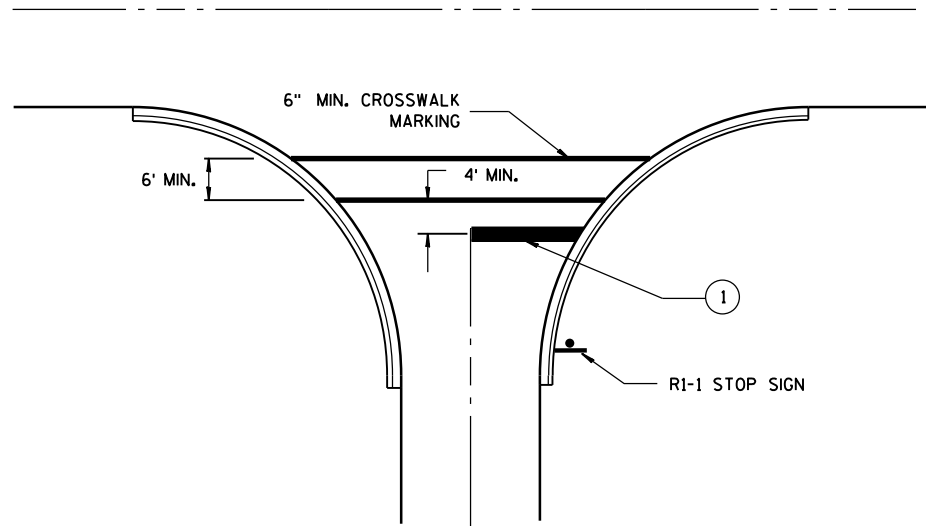
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION



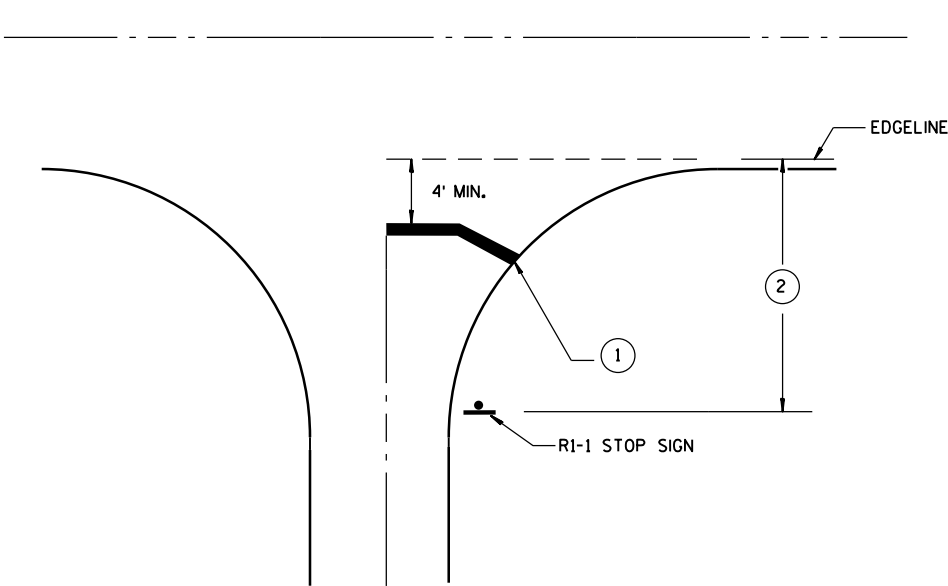
TYPICAL STOP LINE PAVEMENT MARKING
WITH CURB AND GUTTER



TYPICAL STOP LINE PAVEMENT MARKING
FOR SIDEROADS WITH RIGHT TURN LANE



TYPICAL STOP LINE PAVEMENT MARKING
FOR SIDEROADS WITH CROSSWALK MARKING



TYPICAL STOP LINE PAVEMENT MARKING
WITHOUT CURB AND GUTTER

GENERAL NOTES

- 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 EDGE LINE 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.

STOP LINE AND CROSSWALK
PAVEMENT MARKING

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
4/30/2013 DATE /S/ Travis Feltz
STATE TRAFFIC ENGINEER
FHWA

LEGEND

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

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.

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.

REMOVE PAVEMENT MARKINGS IF LANE CLOSURE IS TO BE IN PLACE FOR LONGER THAN 4 OR MORE DAYS AND NIGHTS.

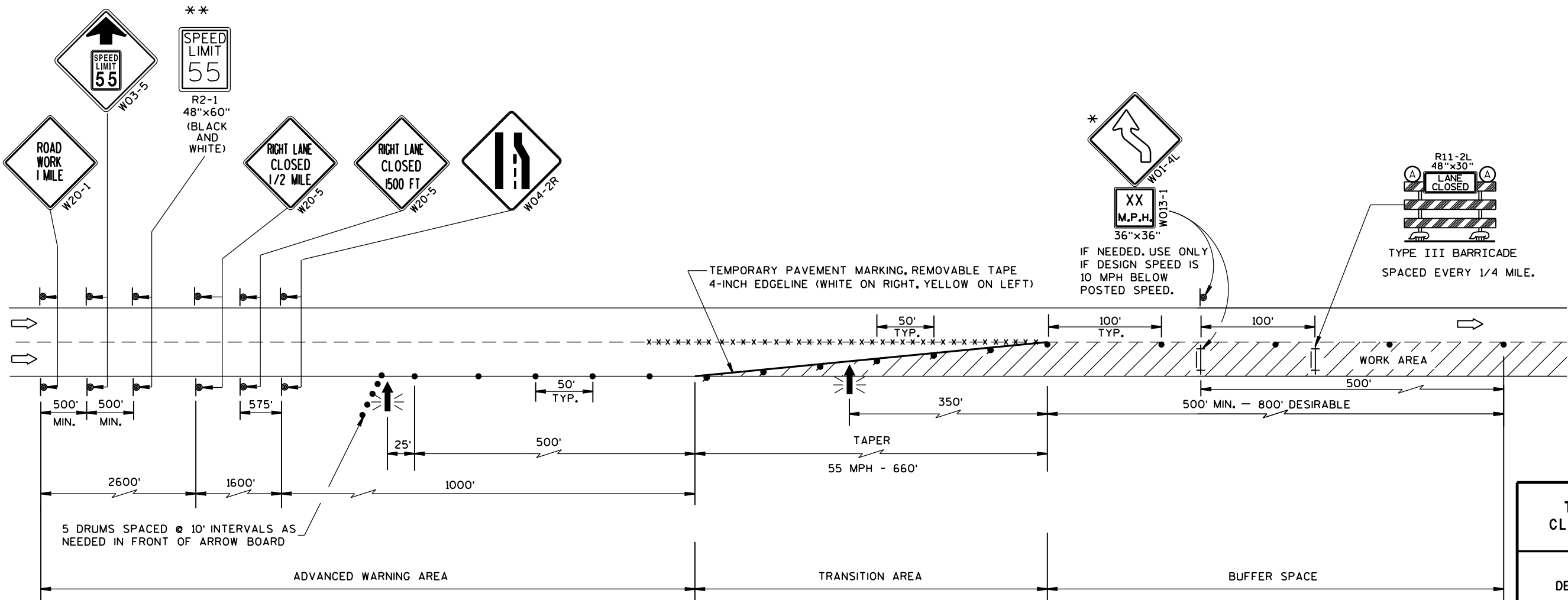
WARNING LIGHTS ARE NOT REQUIRED IF THE LANE CLOSURE IS A DAYTIME ONLY OPERATION.

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

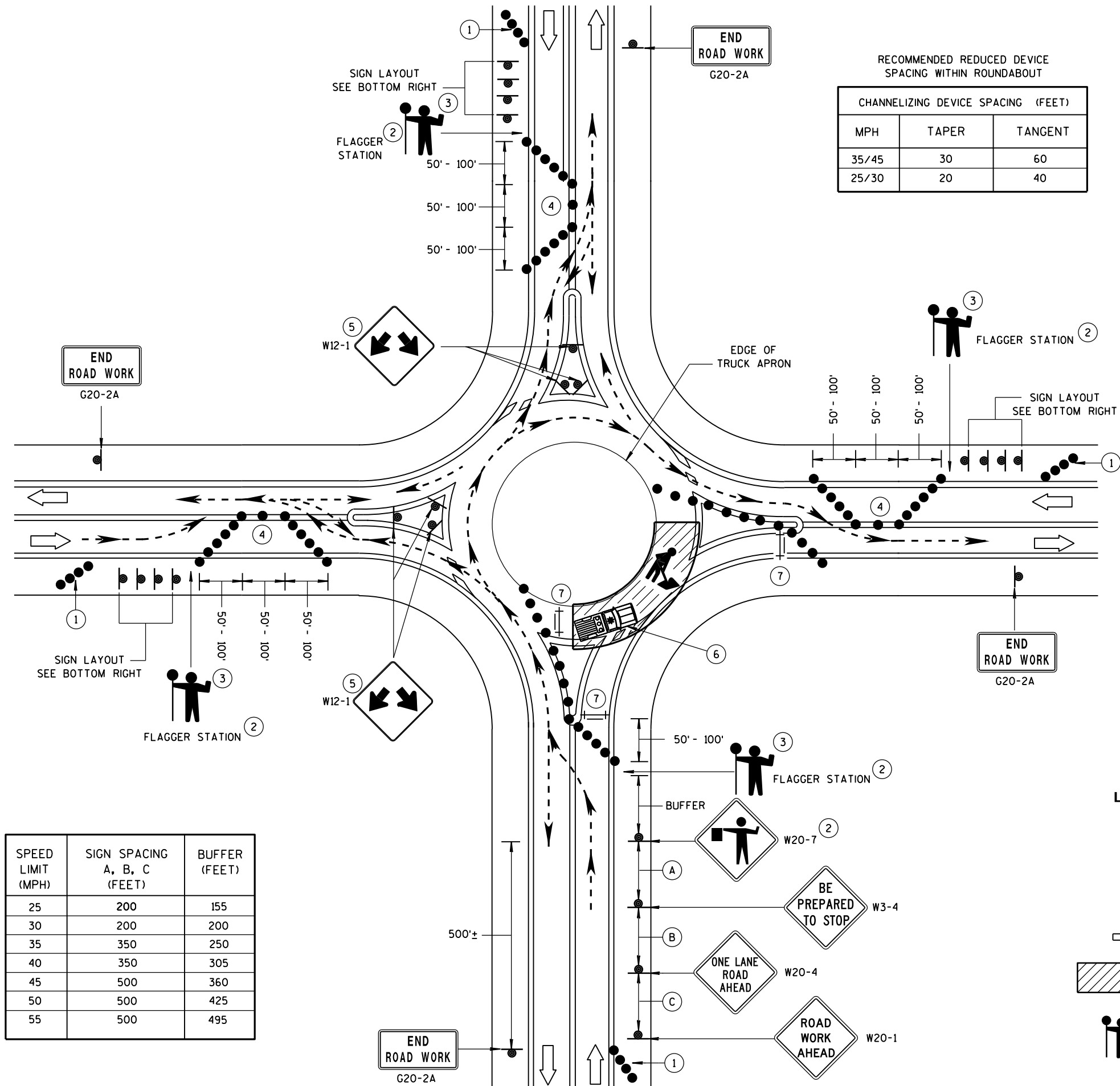
ADJUSTMENTS IN BUFFER SPACE NEED TO BE INCORPORATED WHEN THE LANE CLOSURE OCCURS NEAR AN INTERCHANGE EXIT OR ENTRANCE RAMP. THE LANE CLOSURE MUST MUST TAKE PLACE FAR ENOUGH IN ADVANCE OF AN EXIT OR ENTRANCE RAMP TO STILL ALLOW FOR ADEQUATE BUFFER SPACE. THE MINIMUM LENGTH OF THE BUFFER SPACE BEFORE AN 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 (WO1-4L) IS ONLY REQUIRED WHEN THIS DETAIL IS USED IN COMBINATION WITH "SINGLE LANE CROSSOVER" DETAIL.

** A SPEED LIMIT SIGN SHALL BE LOCATED 1500 FEET BEYOND THE END OF THE ACCELERATION LANE OF EACH ENTRANCE RAMP. THERE SHOULD BE A SPEED LIMIT SIGN INCORPORATED A MINIMUM OF EVERY 2 OR 3 MILES. INCLUDE A 65 MPH RESUME SPEED LIMIT SIGN 200 FEET MINIMUM (500 FEET DESIREABLE) BEYOND THE "END OF ROADWORK" SIGN.



TRAFFIC CONTROL, LANE CLOSURE, SPEED REDUCTION	
STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION	
APPROVED 3-2014 DATE	/S/ Travis Feltes STATE TRAFFIC ENGINEER OF DESIGN
FHWA	



SPEED LIMIT (MPH)	SIGN SPACING A, B, C (FEET)	BUFFER (FEET)
25	200	155
30	200	200
35	350	250
40	350	305
45	500	360
50	500	425
55	500	495

END
ROAD WORK
G20-2A

RECOMMENDED REDUCED DEVICE SPACING WITHIN ROUNDABOUT		
CHANNELIZING DEVICE SPACING (FEET)		
MPH	TAPER	TANGENT
35/45	30	60
25/30	20	40

GENERAL NOTES

ALL SIGNS ARE 48"x48" BLACK ON ORANGE UNLESS OTHERWISE NOTED. IF NECESSARY DUE TO SPACE CONSTRAINTS, 36"x36" SIGNS MAY BE USED INSTEAD OF 48"x48" SIGNS IF APPROVED BY THE ENGINEER.

REMOVE OR COVER CONFLICTING SIGNS.

THE EXACT LOCATION AND PLACEMENT OF ALL SIGNS AND DEVICES SHALL BE ADJUSTED TO FIT FIELD CONDITIONS.

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

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

RADIO COMMUNICATION SHALL BE USED BY ALL FLAGGERS.

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

- 1 PLACE A MINIMUM OF 4 DRUMS ON THE SHOULDER IN ADVANCE OF THE PCMS IN A TAPER FOR DELINEATION ON ALL APPROACHES TO THE ROUNDABOUT.
- 2 ESTABLISH THE LIMITS OF THE WORK ZONE TO ENSURE THE MAXIMUM POSSIBLE SIGHT DISTANCE TO THE FLAGGER STATION.
- 3 FLAGGERS SHALL BE IN DIRECT COMMUNICATION AT ALL TIMES. THEY SHALL BE EQUIPED WITH STOP/SLOW PADDLES FASTENED ON SUPPORT STAFFS. WHEN THE FLAGGING IS NOT IN EFFECT, COVER OR REMOVE ALL TEMPORARY TRAFFIC CONTROL SIGNS.
- 4 ADJUST CHANNELIZING DEVICES TO ACCOMMODATE FOR TURNING RADIUS OF LARGE VEHICLES AS DIRECTED BY THE ENGINEER.
- 5 GUIDE SIGN WITH ROAD NAMES MAY BE USED IN LIEU OF THE DOUBLE ARROW (W12-1) SIGN.
- 6 BUFFER VEHICLE RECOMMENDED TO SHIELD WORK AREA.
- 7 TYPE III BARRICADES WITH ROAD CLOSED SIGN.

LEGEND

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

TRAFFIC CONTROL, 2-LANE ROUNDABOUT	
STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION	
APPROVED 3-2014 DATE	/S/ Travis Feltes STATE TRAFFIC ENGINEER OF DESIGN
FHWA	

Notes



Wisconsin Department of Transportation

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