

RHI

Feb 08, 2022

ORDER OF SHEETS

Section No.	1	Title
Section No.	2	Typical Sections and Details (Includes Erosion Control)
Section No.	3	Estimate of Quantities
Section No.	3	Miscellaneous Quantities
Section No.	4	Right of Way Plat
Section No.	5	Plan and Profile
Section No.	6	Standard Detail Drawings
Section No.	7	Sign Plates
Section No.	8	Structure Plans
Section No.	9	Computer Earthwork Data
Section No.	9	Cross Sections

TOTAL SHEETS = 40



36

DESIGN DESIGNATION

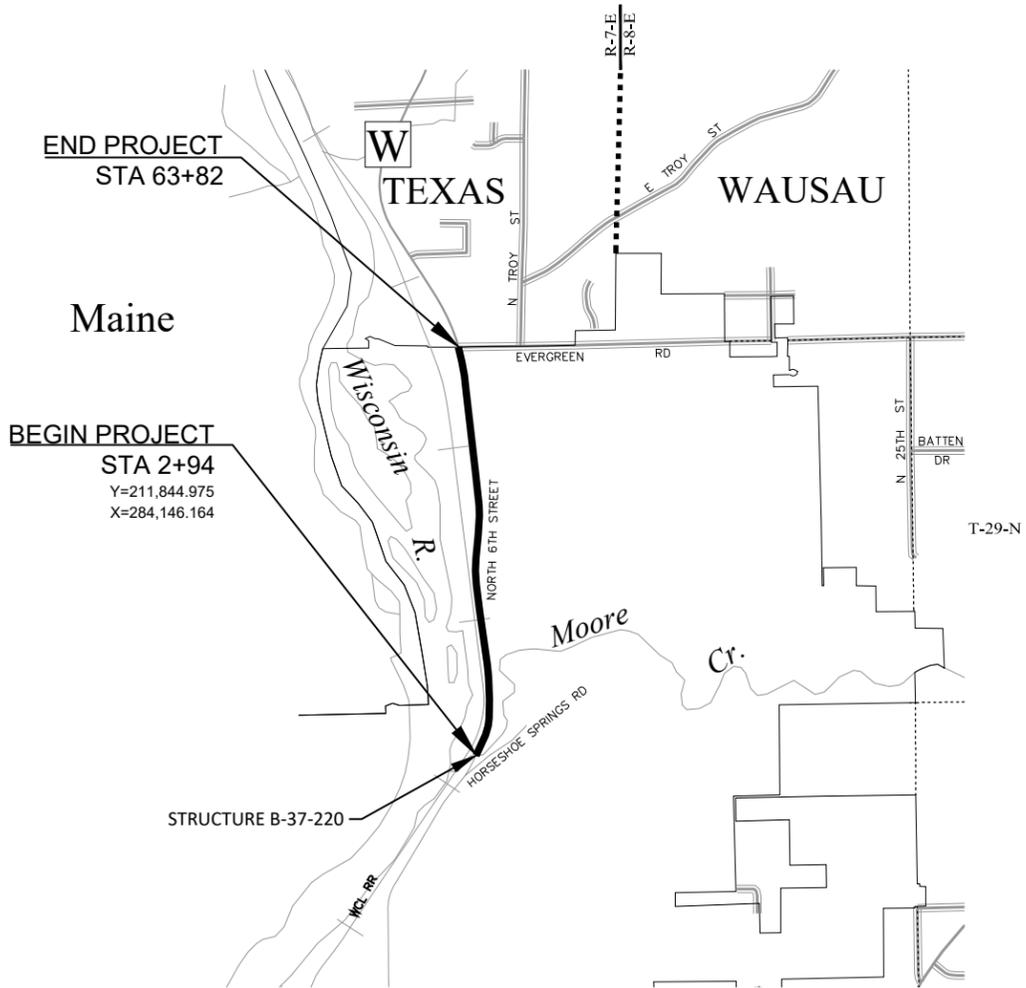
A.A.D.T. (2022)	=	7,300
A.A.D.T. (2042)	=	8,900
D.H.V.	=	UNKNOWN
D.D.	=	UNKNOWN
T.	=	5%
DESIGN SPEED	=	35 MPH
ESALS	=	1,400,000

CONVENTIONAL SYMBOLS

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

STATE OF WISCONSIN
 DEPARTMENT OF TRANSPORTATION
 PLAN OF PROPOSED IMPROVEMENT
C WAUSAU, NORTH 6TH STREET
 HORSESHOE SPRING RD TO EVERGREEN RD
 LOC STR
 MARATHON COUNTY

STATE PROJECT NUMBER
6999-18-77



LAYOUT
 SCALE 0 0.5 MI
 TOTAL NET LENGTH OF CENTERLINE = 1.153 MI

HORIZONTAL POSITIONS SHOWN ON THIS PLAN ARE WISCONSIN COORDINATE REFERENCE SYSTEM (WISCRS), MARATHON COUNTY, NAD83 (2011), IN U.S. SURVEY FEET. POSITIONS SHOWN ARE GRID COORDINATES, GRID BEARINGS, AND GRID DISTANCES. GRID DISTANCES ARE THE SAME AS GROUND DISTANCES. ELEVATIONS ARE REFERENCED TO NAVD 88 (2012).

STATE PROJECT	FEDERAL PROJECT	
	PROJECT	CONTRACT
6999-18-77	WISC 2022184	1

ACCEPTED FOR
 CITY OF WAUSAU
 Date 9/17/21 *K. Penberg*
 (Signature and Title of Official)

ORIGINAL PLANS PREPARED BY
emcs, inc.
 500 North 17th Avenue
 Wausau, WI 54401
 715.845.1081 Fax 715.845.1099



9-17-21 *Stephanie G. Christensen*
 (Date) (Signature)

STATE OF WISCONSIN
 DEPARTMENT OF TRANSPORTATION

PREPARED BY	Surveyor	EMCS, INC.
Designer	EMCS, INC.	
Project Manager	MIKE GRAGE	
Regional Examiner	MIKE GRAGE	
Regional Supervisor	DAN ERVA	

APPROVED FOR THE DEPARTMENT
 DATE: 9/20/2021 *[Signature]*
 (Signature)

E

PROJECT ID: 6999-18-77 WITH: N/A

COUNTY: MARATHON

GENERAL NOTES

THE LOCATIONS OF EXISTING AND PROPOSED UTILITY INSTALLATIONS AS SHOWN ON PLANS ARE APPROXIMATE. THERE MAY BE OTHER UTILITY INSTALLATIONS WITHIN THE PROJECT AREA THAT ARE NOT SHOWN.

AS-BUILTS USED FOR PLAN DEVELOPMENT

PROJECT NO: S 014(3), CONSTRUCTION YEAR: 1961
 PROJECT NO: 6999-01-31, CONSTRUCTION YEAR: 1986
 PROJECT NO: 0372, CONSTRUCTION YEAR: 2001

ORDER OF SECTION 2 SHEETS

- PROJECT OVERVIEW
- TYPICAL SECTIONS
- CONSTRUCTION DETAILS
- TRAFFIC CONTROL

UTILITIES

COMMUNICATIONS

CHARTER COMMUNICATIONS
 SCOTT OLSON
 853 MCLNTOSH STREET
 WAUSAU, WI 54403
 OFFICE PHONE: (715) 301-4079
 MOBILE PHONE: (715) 216-6204
 EMAIL: SCOTT.OLSON@CHARTER.COM

FRONTIER COMMUNICATIONS OF WI LLC
 RUSS RYAN
 315 OAK STREET
 OAKFIELD, WI 53065
 OFFICE PHONE: (920) 583-3275
 MOBILE PHONE: (920) 737-9662
 EMAIL: RUSSELL.W.RYAN@FTR.COM

ELECTRIC

WISCONSIN PUBLIC SERVICE CORPORATION
 JESSE PATTEN - WPS DESIGNER
 P.O. BOX 1166
 WAUSAU, WI 54402
 OFFICE PHONE: (715) 848-7405
 MOBILE PHONE: (715) 573-0349
 EMAIL: JESSE.PATTEN@WISCONSINPUBLICSERVICE.COM

GAS/PETROLEUM

WISCONSIN PUBLIC SERVICE CORPORATION
 SHANE SARKKINEN
 1700 SHERMAN STREET
 WAUSAU, WI 54402
 OFFICE PHONE: (715) 848-7387
 MOBILE PHONE: (715) 966-1040
 EMAIL: SHANE.SARKKINEN@WISCONSINPUBLICSERVICE.COM

SANITARY SEWER

WAUSAU WATER WORKS
 RYAN DWELLY
 415 ADRIAN STREET
 WAUSAU, WI 54401
 MOBILE PHONE: (715) 574-3179
 EMAIL: WATERWORKS@CI.WAUSAU.WI.US

WATER

WAUSAU WATER WORKS
 SHANNON LANE
 1701 N. RIVER DRIVE
 WAUSAU, WI 54403
 MOBILE PHONE: (715) 571-9774
 EMAIL: WATERWORKS@CI.WAUSAU.WI.US

RUNOFF COEFFICIENT TABLE

	HYDROLOGIC SOIL GROUP											
	A			B			C			D		
	SLOPE RANGE (PERCENT)			SLOPE RANGE (PERCENT)			SLOPE RANGE (PERCENT)			SLOPE RANGE (PERCENT)		
LAND USE:	0-2	2-6	6 & OVER									
ROW CROPS	.08 .22	.16 .30	.22 .38	.12 .26	.20 .34	.27 .44	.15 .30	.24 .37	.33 .50	.19 .34	.28 .41	.38 .56
MEDIAN STRIP-TURF	.19 .24	.20 .26	.24 .30	.19 .25	.22 .28	.26 .33	.20 .26	.23 .30	.30 .37	.20 .27	.25 .32	.30 .40
SIDE SLOPE-TURF			.25 .32			.27 .34			.28 .36			.30 .38
PAVEMENT:												
ASPHALT	.70 - .95											
CONCRETE	.80 - .95											
BRICK	.70 - .80											
DRIVES, WALKS	.75 - .85											
ROOFS	.75 - .95											
GRAVEL ROADS, SHOULDERS	.40 - .60											

TOTAL PROJECT AREA = 15 ACRES
 TOTAL AREA EXPECTED TO BE DISTURBED BY CONSTRUCTION ACTIVITIES = 0 ACRES



Dial **811** or (800)242-8511
www.DiggersHotline.com

OTHER CONTACTS

CITY OF WAUSAU CONTACTS

CITY OF WAUSAU - ENGINEERING DEPARTMENT
 CITY HALL
 407 GRANT STREET
 WAUSAU, WI 54403
 OFFICE: (715) 261-6740
 FAX: (715) 261-6759
 AFTER HOURS: (715) 849-7798
 ENGINEERING@CI.WAUSAU.WI.US

ERIC LINDMAN - DIRECTOR OF PUBLIC WORKS & UTILITIES
 OFFICE: (715) 261-6745
 ERIC.LINDMAN@CI.WAUSAU.WI.US

ALLEN WESOLOWSKI - CITY ENGINEER
 OFFICE: (715) 261-6762
 ALLEN.WESOLOWSKI@CI.WAUSAU.WI.US

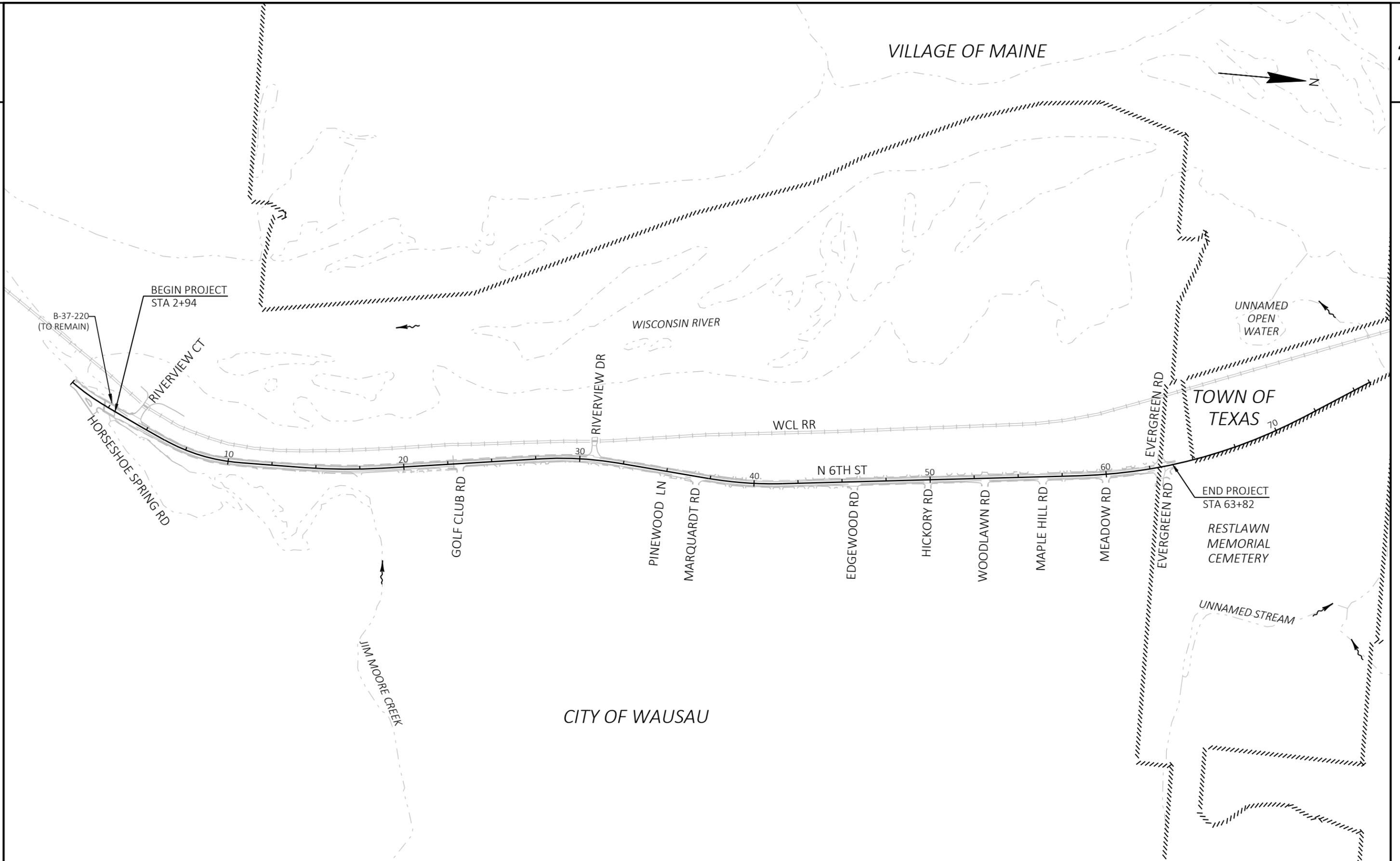
DAVID HUEMPFNER - CITY SURVEYOR
 OFFICE: (715) 261-6754
 DAVID.HUEMPFNER@CI.WAUSAU.WI.US

DNR LIAISON

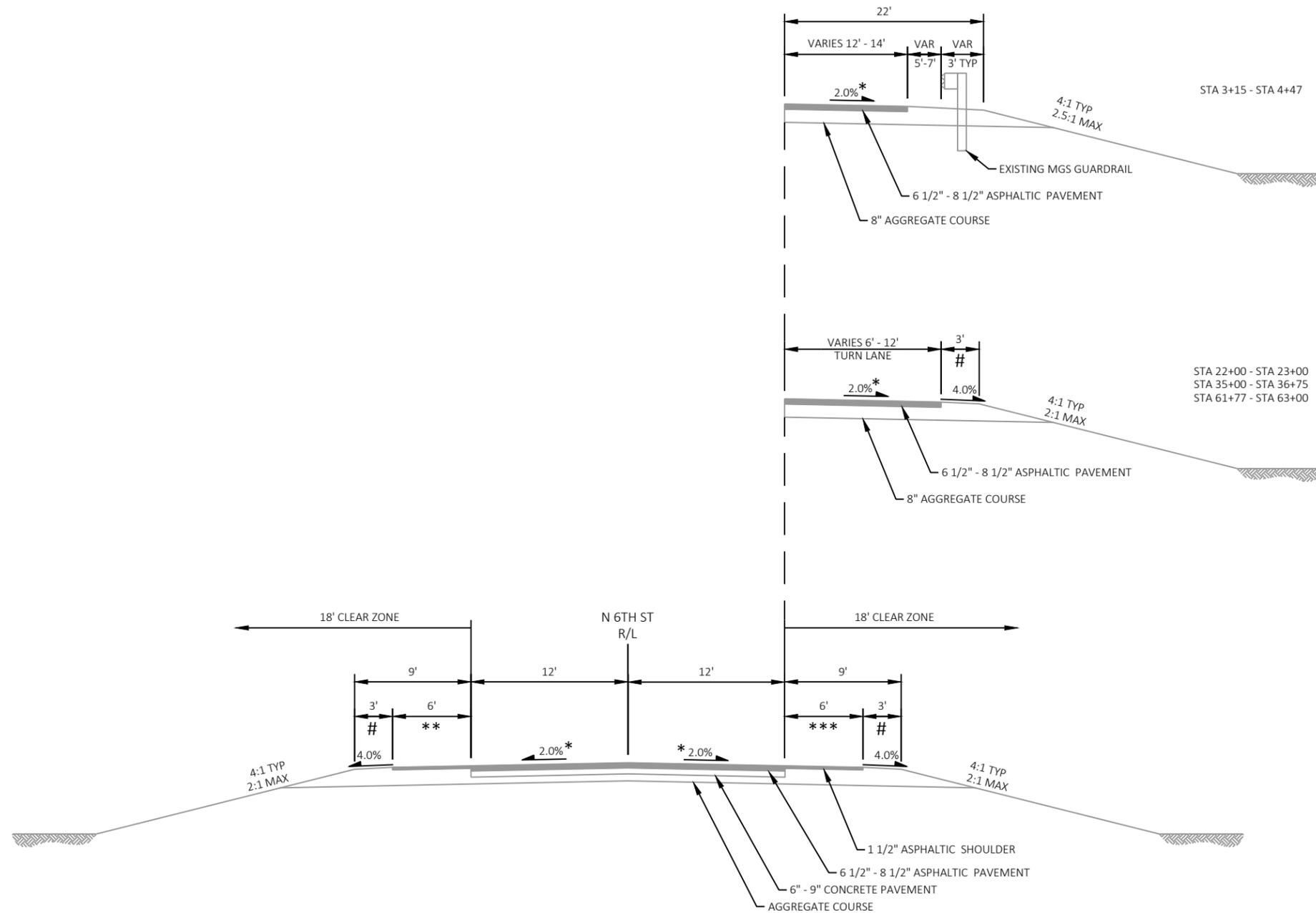
CASEY JONES
 DNR WISCONSIN RAPIDS SERVICE CENTER
 473 GRIFFITH DRIVE
 WISCONSIN RAPIDS, WI 54494
 (715) 213-6571
 CASEY.JONES@WISCONSIN.GOV

DESIGNER CONTACT

EMCS, INC.
 500 NORTH 17TH AVENUE
 WAUSAU, WI 54401
 OFFICE: 715-845-1081



PROJECT NO: 6999-18-77	NORTH 6TH ST	COUNTY: MARATHON	PROJECT OVERVIEW	SHEET E
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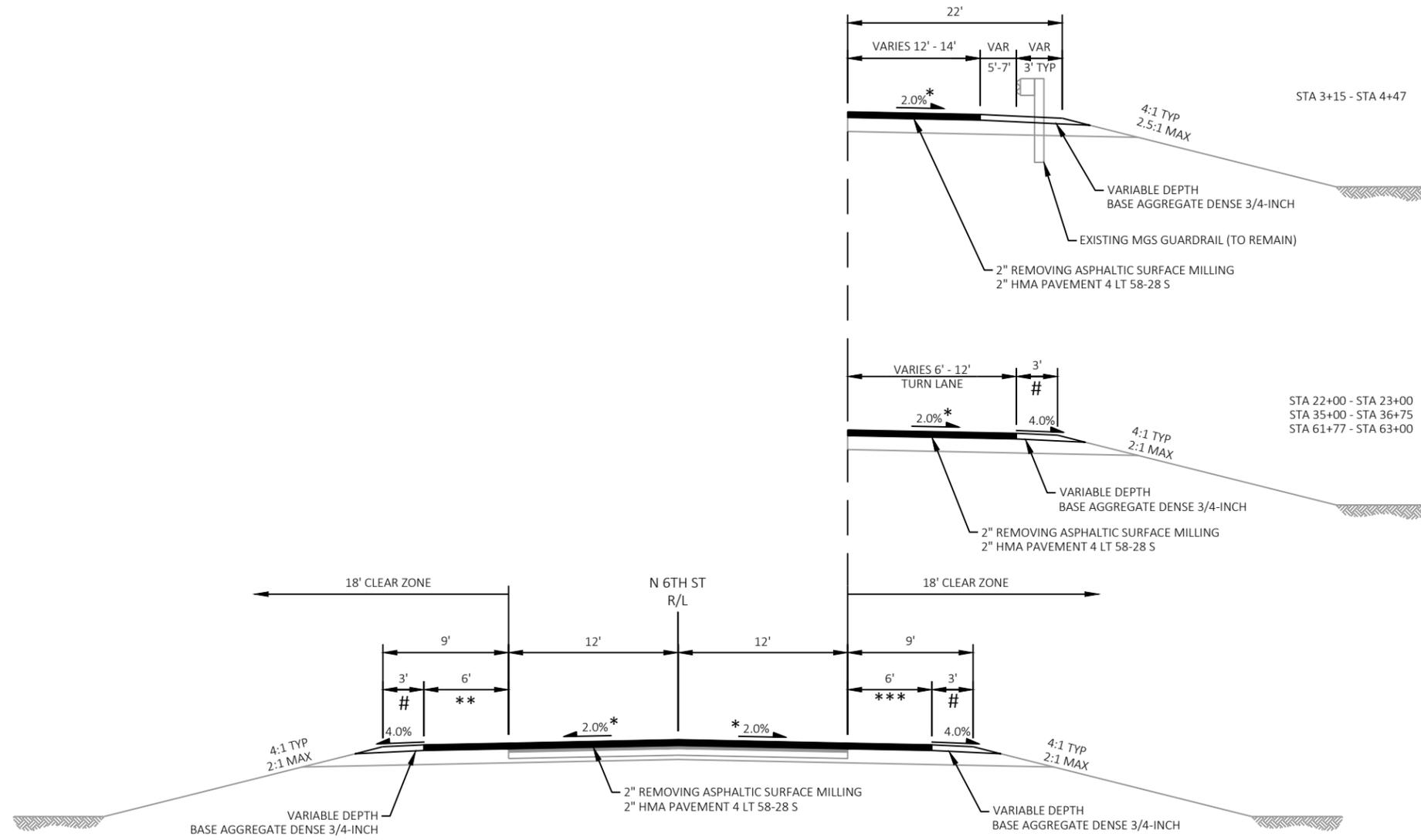


EXISTING TYPICAL SECTION

STA 2+94 - STA 63+82

NOTES

- * CROSS SLOPE VARIES DUE TO SUPERELEVATION. SEE SECTION 5 PLANS FOR SUPERELEVATION INFORMATION.
- ** STA 2+94 TO STA 4+25, SHOULDER VARIES 6' TO 14' TO MATCH B-37-220
- *** STA 17+00 TO STA 20+83, PAVED SHOULDER IS 8'
- # TYPICAL AGGREGATE SHOULDER IS SHOWN, 1' (MIN) IS PRESENT AT SPOT LOCATIONS THROUGHOUT PROJECT
- CURB & GUTTER IS PRESENT APPROXIMATELY FROM STA 2+94 TO STA 4+00, LT AND STA 23+30 TO STA 24+55, RT
- SIDEWALK IS PRESENT FROM APPROXIMATELY STA 2+93 TO STA 3+91, LT AND STA 19+91 TO STA 22+98, RT

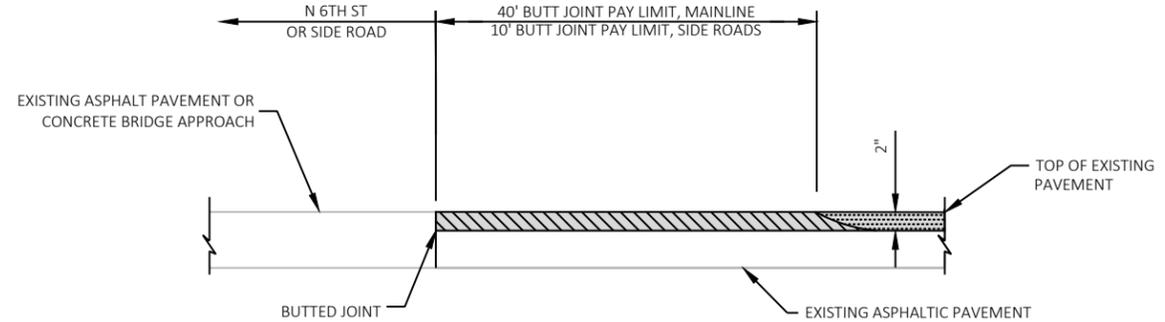


PROPOSED TYPICAL SECTION

STA 2+94 - STA 63+82

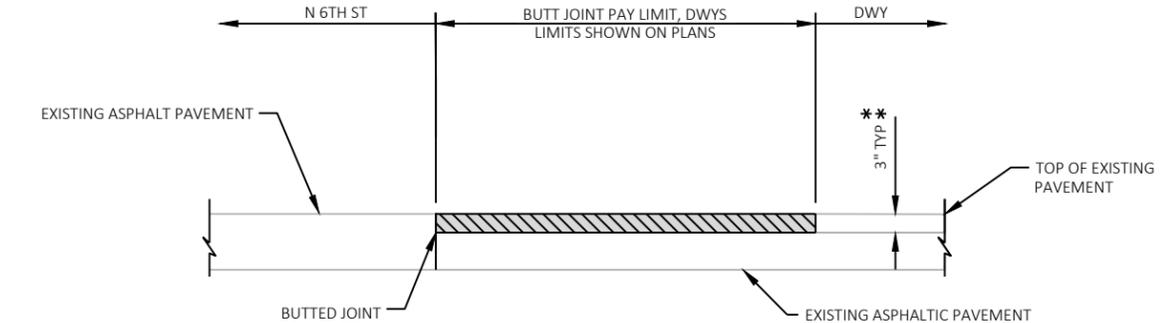
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- CURB & GUTTER IS PRESENT APPROXIMATELY FROM STA 2+94 TO STA 4+00, LT AND STA 23+30 TO STA 24+55, RT
- SIDEWALK IS PRESENT FROM APPROXIMATELY STA 2+93 TO STA 3+91, LT AND STA 19+91 TO STA 22+98, RT
- PREPARATION OF FOUNDATION FOR ASPHALTIC PAVING INCLUDES THE TRAVEL LANES AND SHOULDERS
- MILLING DEPTH IS THE NOMINAL DEPTH AT THE ROADWAY CENTERLINE



- REMOVING ASPHALTIC SURFACE BUTT JOINTS
DO NOT REMOVE MATERIAL UNDER THIS ITEM UNTIL 24 HOURS BEFORE PAVING
- REMOVING ASPHALTIC SURFACE MILLING
- PROPOSED HMA PAVEMENT OVERLAY

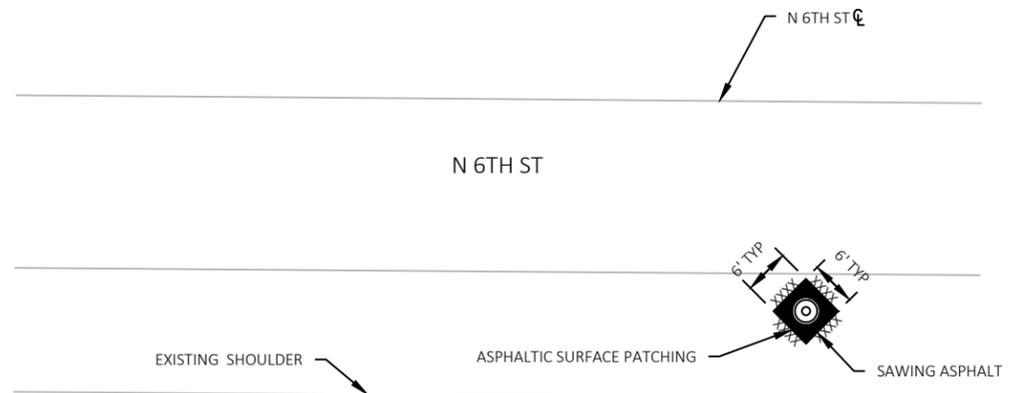
MAINLINE AND SIDE ROAD BUTT JOINT DETAIL
 STA 2+94 (BEGIN PROJECT)
 STA 63+82 (END PROJECT)
 SIDE ROADS (SEE SECTION 5 PLANS FOR LOCATIONS)



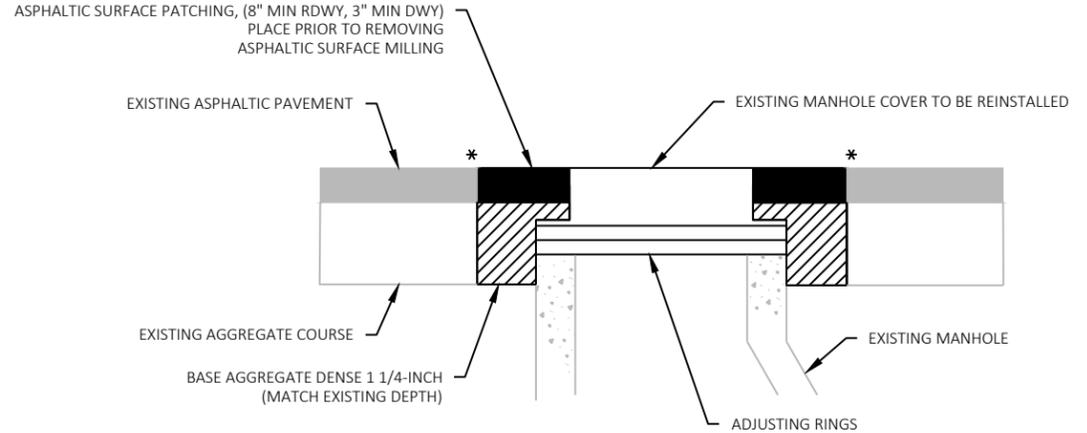
- REMOVING ASPHALTIC SURFACE BUTT JOINTS
DO NOT REMOVE MATERIAL UNDER THIS ITEM UNTIL 24 HOURS BEFORE PAVING
- PROPOSED ASPHALTIC SURFACE FOR DRIVEWAYS & FIELD ENTRANCES

DRIVEWAY BUTT JOINT DETAIL

NOTE
 ** 4" AT BUS STOP DWYS
 (SEE CONSTRUCTION DETAIL)



PLAN VIEW



ADJUSTING SANITARY SEWER MANHOLE COVERS IN ASPHALTIC PAVEMENT
 STA 2+94 - STA 63+82

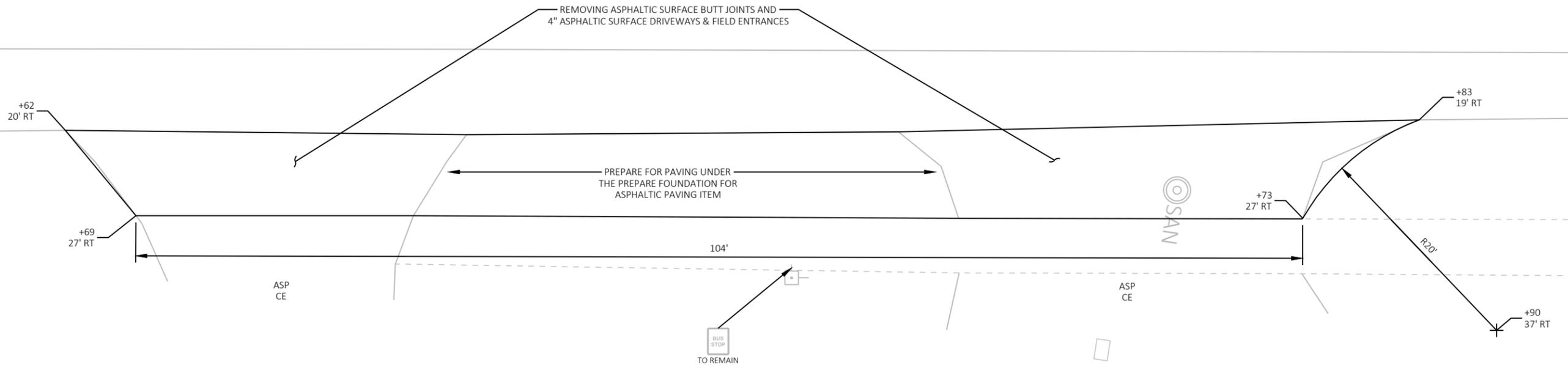
LEGEND
 * SAWCUT REQ'D

ADJUSTING SANITARY SEWER MANHOLE COVERS DETAIL



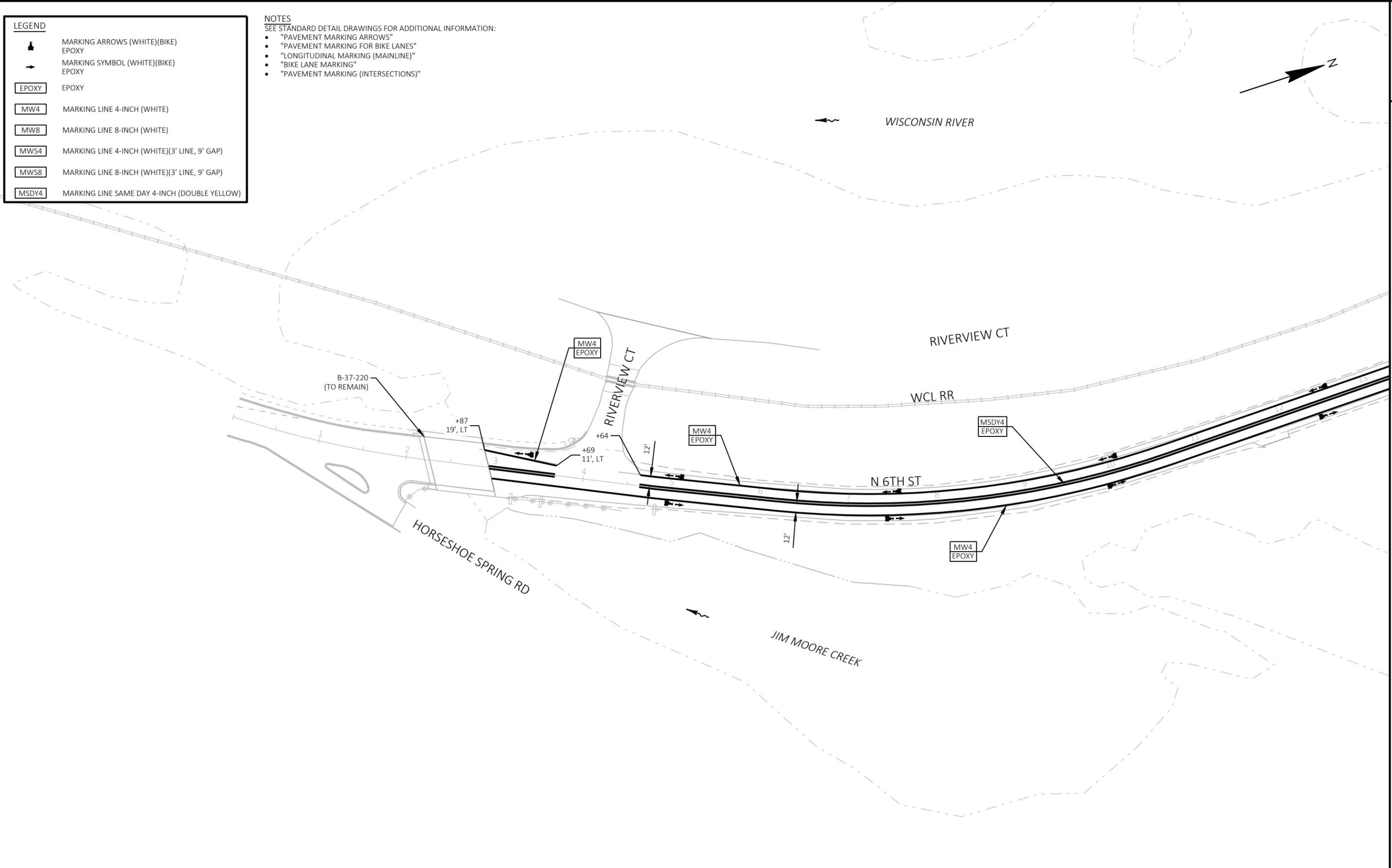
N 6TH ST

19+50 20+00 20+50 21+00



LEGEND	
	MARKING ARROWS (WHITE)(BIKE) EPOXY
	MARKING SYMBOL (WHITE)(BIKE) EPOXY
	EPOXY
	MARKING LINE 4-INCH (WHITE)
	MARKING LINE 8-INCH (WHITE)
	MARKING LINE 4-INCH (WHITE)(3' LINE, 9' GAP)
	MARKING LINE 8-INCH (WHITE)(3' LINE, 9' GAP)
	MARKING LINE SAME DAY 4-INCH (DOUBLE YELLOW)

NOTES
 SEE STANDARD DETAIL DRAWINGS FOR ADDITIONAL INFORMATION:
 • "PAVEMENT MARKING ARROWS"
 • "PAVEMENT MARKING FOR BIKE LANES"
 • "LONGITUDINAL MARKING (MAINLINE)"
 • "BIKE LANE MARKING"
 • "PAVEMENT MARKING (INTERSECTIONS)"

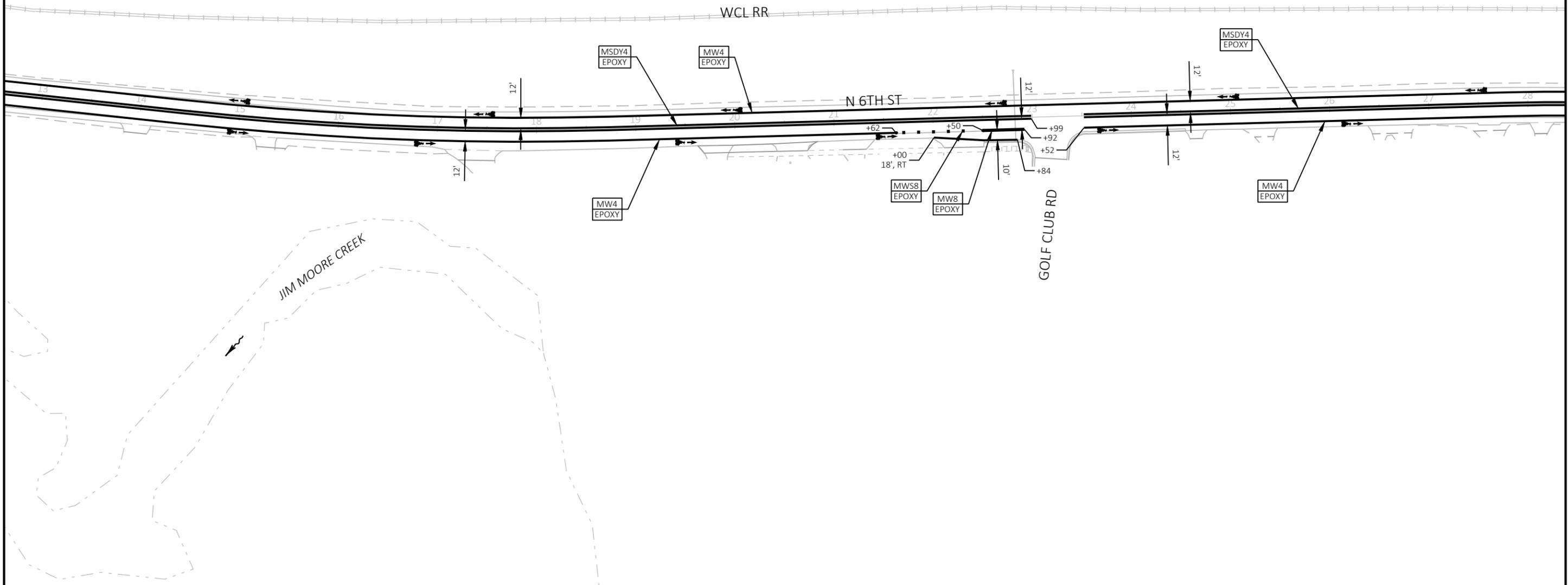


LEGEND	
	MARKING ARROWS (WHITE)(BIKE) EPOXY
	MARKING SYMBOL (WHITE)(BIKE) EPOXY
	EPOXY
	MARKING LINE 4-INCH (WHITE)
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NOTES
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 • "PAVEMENT MARKING (INTERSECTIONS)"



WISCONSIN RIVER

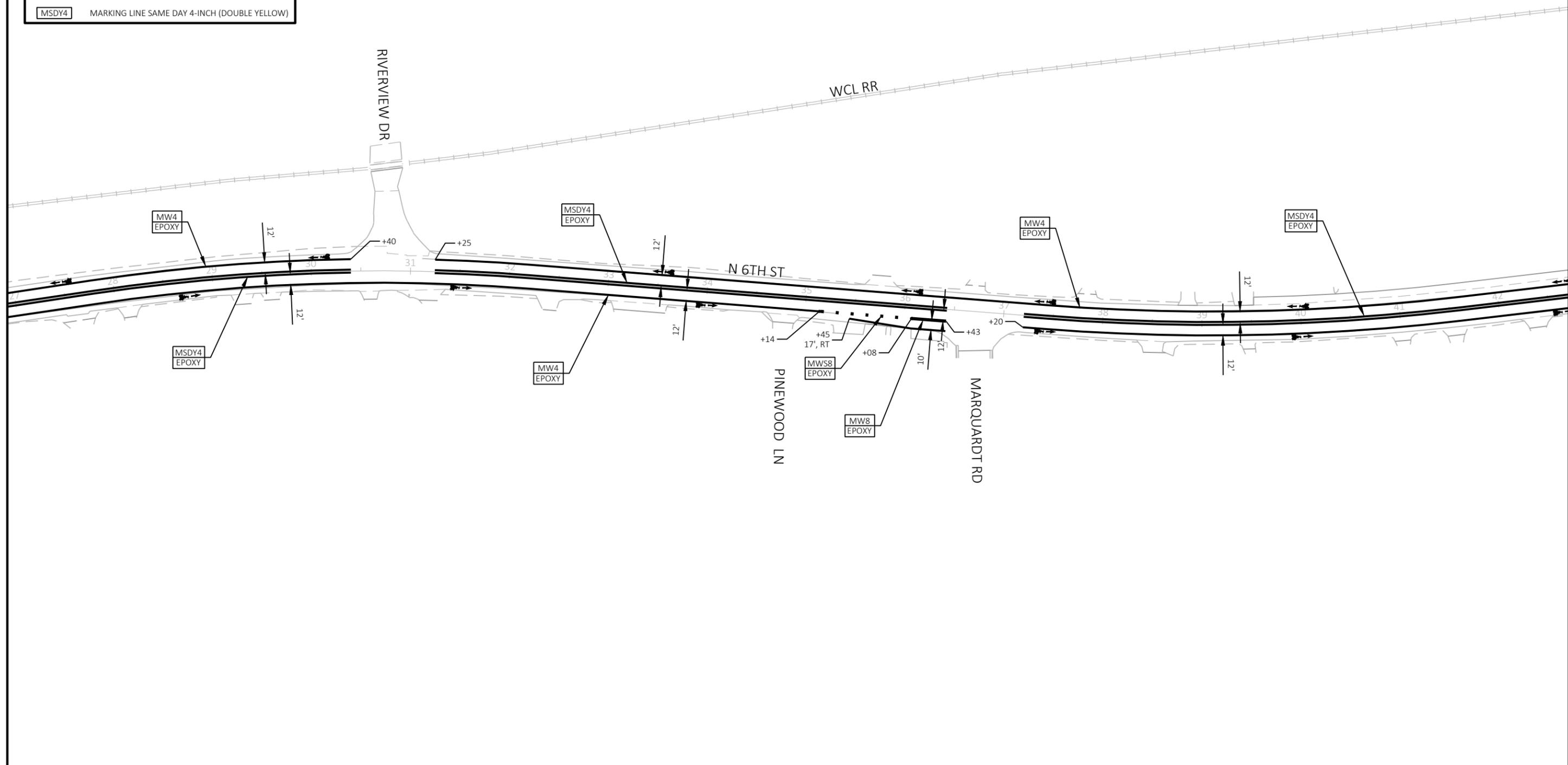


PROJECT NO: 6999-18-77	NORTH 6TH ST	COUNTY: MARATHON	PAVEMENT MARKING	SHEET	E
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LEGEND	
	MARKING ARROWS (WHITE)(BIKE) EPOXY
	MARKING SYMBOL (WHITE)(BIKE) EPOXY
	EPOXY
	MARKING LINE 4-INCH (WHITE)
	MARKING LINE 8-INCH (WHITE)
	MARKING LINE 4-INCH (WHITE)(3' LINE, 9' GAP)
	MARKING LINE 8-INCH (WHITE)(3' LINE, 9' GAP)
	MARKING LINE SAME DAY 4-INCH (DOUBLE YELLOW)

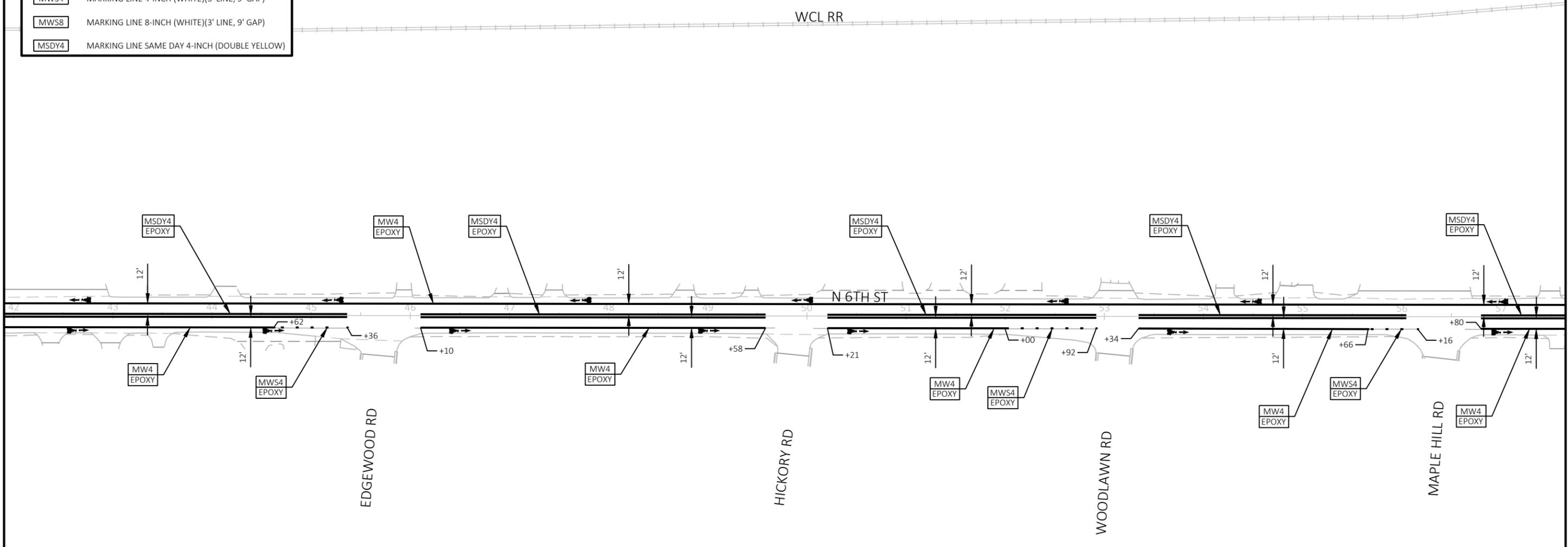
WISCONSIN RIVER

- NOTES
SEE STANDARD DETAIL DRAWINGS FOR ADDITIONAL INFORMATION:
- "PAVEMENT MARKING ARROWS"
 - "PAVEMENT MARKING FOR BIKE LANES"
 - "LONGITUDINAL MARKING (MAINLINE)"
 - "BIKE LANE MARKING"
 - "PAVEMENT MARKING (INTERSECTIONS)"



LEGEND	
	MARKING ARROWS (WHITE)(BIKE) EPOXY
	MARKING SYMBOL (WHITE)(BIKE) EPOXY
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 • "PAVEMENT MARKING ARROWS"
 • "PAVEMENT MARKING FOR BIKE LANES"
 • "LONGITUDINAL MARKING (MAINLINE)"
 • "BIKE LANE MARKING"
 • "PAVEMENT MARKING (INTERSECTIONS)"



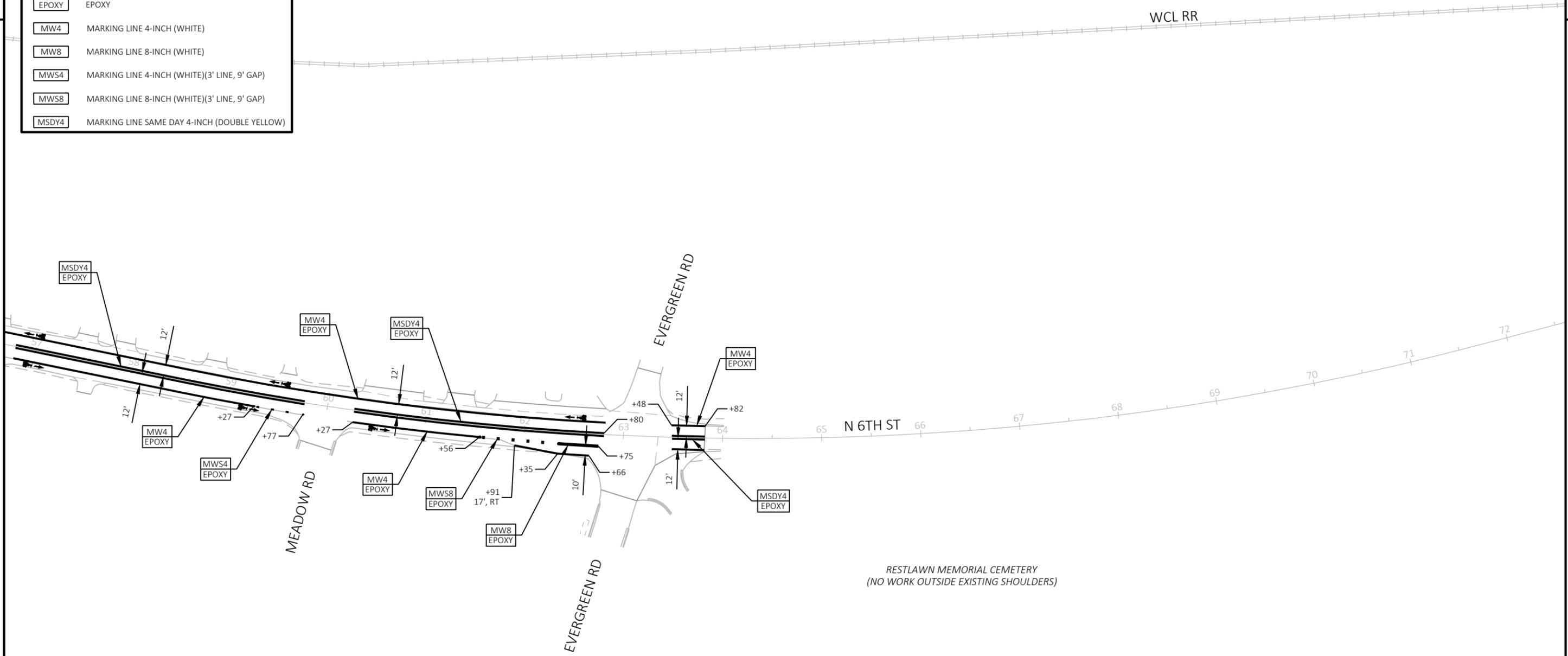
PROJECT NO: 6999-18-77	NORTH 6TH ST	COUNTY: MARATHON	PAVEMENT MARKING	SHEET	E
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LEGEND

	MARKING ARROWS (WHITE)(BIKE) EPOXY
	MARKING SYMBOL (WHITE)(BIKE) EPOXY
	EPOXY
	MARKING LINE 4-INCH (WHITE)
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	MARKING LINE 4-INCH (WHITE)(3' LINE, 9' GAP)
	MARKING LINE 8-INCH (WHITE)(3' LINE, 9' GAP)
	MARKING LINE SAME DAY 4-INCH (DOUBLE YELLOW)

NOTES
SEE STANDARD DETAIL DRAWINGS FOR ADDITIONAL INFORMATION:

- "PAVEMENT MARKING ARROWS"
- "PAVEMENT MARKING FOR BIKE LANES"
- "LONGITUDINAL MARKING (MAINLINE)"
- "BIKE LANE MARKING"
- "PAVEMENT MARKING (INTERSECTIONS)"



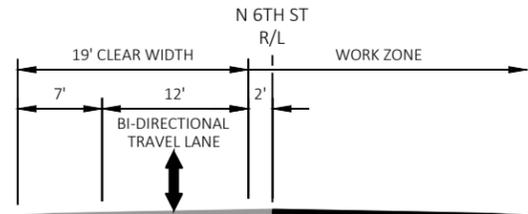
PROJECT NO: 6999-18-77	NORTH 6TH ST	COUNTY: MARATHON	PAVEMENT MARKING	SHEET	E
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NOTES

SEE SDD "TRAFFIC CONTROL FOR LANE CLOSURE WITH FLAGGING OPERATION" TO REDUCE TRAFFIC TO ONE LANE OF BI-DIRECTIONAL TRAFFIC DURING WORKING HOURS.

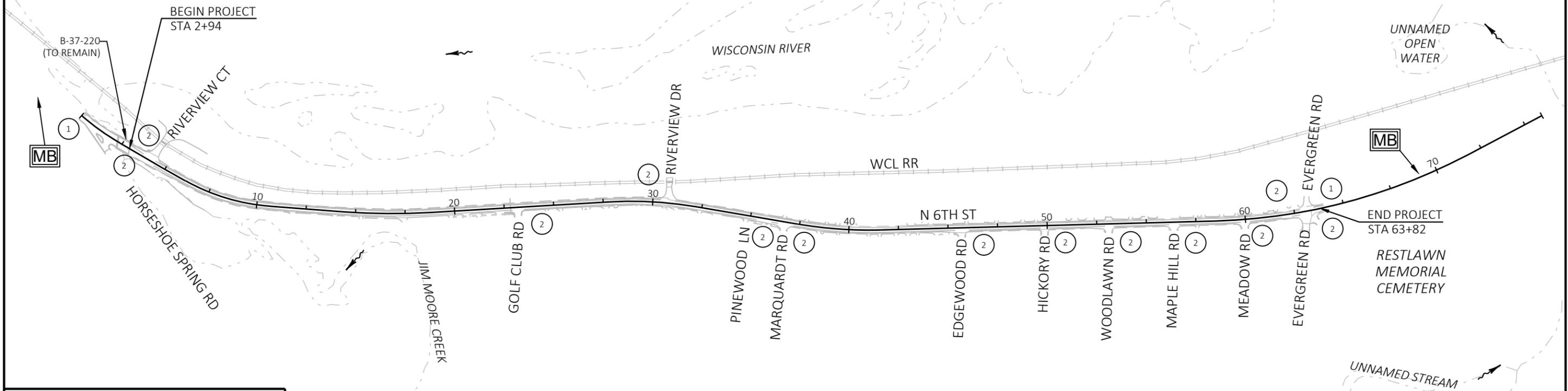
SEE SDD "TRAFFIC CONTROL FOR DROP-OFF SIGNING" FOR REQUIRED SIGNING DURING PERIODS OF UNEVEN LANES.

THE WORK ZONE AS SHOWN INCLUDES WORKING ROOM AND BUFFER TO LIVE TRAFFIC.



EXISTING TYPICAL SECTION

TYPICAL STAGING FOR MILL AND OVERLAY OPERATIONS
(WORK ZONE FOR N 6TH ST NB SHOWN, MIRROR TYPICAL SECTION FOR N 6TH ST SB WORK ZONE)



TRAFFIC CONTROL GENERAL NOTES

1. ALL SIGNS ARE 48" X 48" UNLESS OTHERWISE NOTED.
2. "WO" SIGNS ARE THE SAME AS "W" SIGNS EXCEPT THE BACKGROUND IS ORANGE.
3. ALL TYPE III BARRICADES SHALL BE EQUIPPED WITH TYPE "A" (LOW INTENSITY FLASHING LIGHTS) PER SDD'S.
4. PLACE TRAFFIC CONTROL SIGNS AND DRUMS PER SDD "TRAFFIC CONTROL, WORK ON SHOULDER OR PARKING LANE, UNDIVIDED ROADWAY," IN AREAS OF GUARDRAIL REPLACEMENT, AND CURB RAMP REPLACEMENT.
5. PLACE LOW SHOULDER AND UNEVEN LANE SIGNS DURING THE MILLING AND PAVING OPERATION. SEE SDD "TRAFFIC CONTROL FOR DROP-OFF SIGNING" FOR ADDITIONAL INFORMATION.
6. DELINEATE PRIVATE ACCESS WITH TRAFFIC CONTROL DRUMS, WHERE REQUIRED

TRAFFIC CONTROL SIGNS PCMS MESSAGES

PCMS SIGN LOCATION	PRIOR TO CONSTRUCTION	
	PHASE 1 (2 SEC)	PHASE 2 (2 SEC)
N 6TH ST NB 0.1 MILES SOUTH OF BEGIN PROJECT LIMITS	N 6TH ST WORK STARTS	STARTING DATE
N 6TH ST SB 0.1 MILES NORTH OF END PROJECT LIMITS	N 6TH ST WORK STARTS	STARTING DATE

PCMS GENERAL NOTES

ADJUST TRAFFIC CONTROL PCMS MESSAGES AS NEEDED BASED ON CONSTRUCTION SCHEDULE.

CONSIDER GEOMETRICS WHEN LOCATING MESSAGE BOARDS SO THE DRIVER HAS A CLEAR VIEW OF THE BOARD FOR A MINIMUM OF 1,000 FEET IN FRONT OF THE MESSAGE BOARD. PLACE MESSAGE BOARDS AS FAR AWAY FROM LIVE TRAFFIC LANES AS POSSIBLE WITHOUT HAMPERING VISIBILITY.

PLACE TRAFFIC CONTROL SIGNS PCMS AND DISPLAY THE MESSAGE 7 DAYS PRIOR TO THE EXPECTED START OF THE PROPOSED WORK. ADJUST THE MESSAGE DATE ACCORDINGLY.

LEGEND

- 1 PLACE TRAFFIC CONTROL SIGNS PER SDD "TRAFFIC CONTROL, ADVANCE WARNING SIGNS 40 MPH OR LESS, TWO WAY UNDIVIDED ROAD OPEN TO TRAFFIC".
- 2 PLACE TRAFFIC CONTROL SIGNS PER "TYPICAL SIDE ROAD APPROACH WARNING SIGN DETAIL" IN SDD "TRAFFIC CONTROL, ADVANCE WARNING SIGNS 40 MPH OR LESS TWO WAY UNDIVIDED ROAD OPEN TO TRAFFIC".
- MB TRAFFIC CONTROL SIGNS PCMS

Estimate Of Quantities

6999-18-77

Line	Item	Item Description	Unit	Total	Qty
0002	204.0110	Removing Asphaltic Surface	SY	20.000	20.000
0004	204.0115	Removing Asphaltic Surface Butt Joints	SY	2,560.000	2,560.000
0006	204.0120	Removing Asphaltic Surface Milling	SY	27,210.000	27,210.000
0008	211.0100	Prepare Foundation for Asphaltic Paving (project) 01. 6999-18-77	LS	1.000	1.000
0010	213.0100	Finishing Roadway (project) 01. 6999-18-77	EACH	1.000	1.000
0012	305.0110	Base Aggregate Dense 3/4-Inch	TON	300.000	300.000
0014	305.0120	Base Aggregate Dense 1 1/4-Inch	TON	10.000	10.000
0016	455.0605	Tack Coat	GAL	1,905.000	1,905.000
0018	460.2000	Incentive Density HMA Pavement	DOL	1,900.000	1,900.000
0020	460.5224	HMA Pavement 4 LT 58-28 S	TON	3,050.000	3,050.000
0022	465.0110	Asphaltic Surface Patching	TON	60.000	60.000
0024	465.0120	Asphaltic Surface Driveways and Field Entrances	TON	280.000	280.000
0026	611.8120.S	Cover Plates Temporary	EACH	5.000	5.000
0028	614.0950	Replacing Guardrail Posts and Blocks	EACH	4.000	4.000
0030	618.0100	Maintenance And Repair of Haul Roads (project) 01. 6999-18-77	EACH	1.000	1.000
0032	619.1000	Mobilization	EACH	1.000	1.000
0034	624.0100	Water	MGAL	5.000	5.000
0036	625.0100	Topsoil	SY	100.000	100.000
0038	627.0200	Mulching	SY	100.000	100.000
0040	628.1504	Silt Fence	LF	500.000	500.000
0042	628.1520	Silt Fence Maintenance	LF	500.000	500.000
0044	628.1905	Mobilizations Erosion Control	EACH	2.000	2.000
0046	628.1910	Mobilizations Emergency Erosion Control	EACH	1.000	1.000
0048	628.7015	Inlet Protection Type C	EACH	1.000	1.000
0050	630.0140	Seeding Mixture No. 40	LB	10.000	10.000
0052	630.0500	Seed Water	MGAL	2.000	2.000
0054	642.5001	Field Office Type B	EACH	1.000	1.000
0056	643.0300	Traffic Control Drums	DAY	750.000	750.000
0058	643.0900	Traffic Control Signs	DAY	810.000	810.000
0060	643.1050	Traffic Control Signs PCMS	DAY	14.000	14.000
0062	643.5000	Traffic Control	EACH	1.000	1.000
0064	646.1020	Marking Line Epoxy 4-Inch	LF	11,150.000	11,150.000
0066	646.3020	Marking Line Epoxy 8-Inch	LF	200.000	200.000
0068	646.4520	Marking Line Same Day Epoxy 4-Inch	LF	10,900.000	10,900.000
0070	646.5020	Marking Arrow Epoxy	EACH	50.000	50.000
0072	646.5220	Marking Symbol Epoxy	EACH	50.000	50.000
0074	649.0105	Temporary Marking Line Paint 4-Inch	LF	10,900.000	10,900.000
0076	650.8000	Construction Staking Resurfacing Reference	LF	6,088.000	6,088.000
0078	650.9910	Construction Staking Supplemental Control (project) 01. 6999-18-77	LS	1.000	1.000
0080	690.0150	Sawing Asphalt	LF	120.000	120.000
0082	740.0440	Incentive IRI Ride	DOL	4,612.000	4,612.000
0084	ASP.1T0A	On-the-Job Training Apprentice at \$5.00/HR	HRS	1,200.000	1,200.000
0086	ASP.1T0G	On-the-Job Training Graduate at \$5.00/HR	HRS	600.000	600.000
0088	SPV.0030	Special 01. Fertilizer for Lawn Type Turf	CWT	0.100	0.100
0090	SPV.0060	Special 01. Adjusting Sanitary Manhole Covers	EACH	5.000	5.000
0092	SPV.0060	Special 02. Adjusting Water Valve Boxes	EACH	25.000	25.000
0094	SPV.0180	Special 01. Preparing Topsoil for Lawn Type Turf	SY	100.000	100.000

3

REMOVAL ITEMS

CATEGORY	STATION TO STATION	OFFSET	204.0115			204.0120			204.0110			COMMENTS
			REMOVING ASPHALTIC SURFACE BUTT JOINTS	SY	204.0115	REMOVING ASPHALTIC SURFACE MILLING	SY	204.0120	REMOVING ASPHALTIC SURFACE	SY	204.0110	
0010	2+94 - 24+00	LT&RT	790	9,655	--							
	24+00 - 63+82	LT&RT	1,770	17,555	--							
CAT 0010 SUBTOTALS			2,560	27,210	--							
0020	PROJECT	--	--	--	20	MH ADJUSTMENTS						
CAT 0020 SUBTOTALS			--	--	20							
TOTALS			2,560	27,210	20							

BASE AGGREGATE ITEMS

CATEGORY	STATION TO STATION	OFFSET	305.0110		305.0120		COMMENTS
			BASE AGGREGATE DENSE 3/4-INCH	TON	BASE AGGREGATE DENSE 1 1/4-INCH	TON	
0010	2+94 - 24+00	LT&RT	100	--			
	24+00 - 63+82	LT&RT	200	--			
CAT 0010 SUBTOTALS			300	--			
0020	PROJECT	--	--	10	MH ADJUSTMENTS		
CAT 0020 SUBTOTALS			--	10			
TOTALS			300	10			

3

ASPHALTIC ITEMS

CATEGORY	STATION TO STATION	OFFSET	455.0605		460.5224		465.0120		465.0110		COMMENTS
			TACK COAT GAL	455.0605	HMA PAVEMENT 4 LT 58-28 S TON	460.5224	ASPHALTIC SURFACE DRIVEWAYS AND FIELD ENTRANCES TON	465.0120	ASPHALTIC SURFACE PATCHING TON	465.0110	
0010	2+94 - 24+00	LT&RT	675	1,080	55	--					
	24+00 - 63+82	LT&RT	1,230	1,970	225	--				UNDISTRIBUTED FOR PREPARING FOUNDATION	
	PROJECT	--	--	--	--	50					
CAT 0010 SUBTOTALS			1,905	3,050	280	50					
0020	PROJECT	--	--	--	--	10	MH ADJUSTMENTS				
CAT 0020 SUBTOTALS			--	--	--	10					
TOTALS			1,905	3,050	280	60					

RESTORATION ITEMS

CATEGORY	LOCATION	625.0100		627.0200		SPV.0030.01		630.0140		630.0500		SPV.0180.01		COMMENTS
		TOPSOIL SY	MULCHING SY	FERTILIZER FOR LAWN TYPE TURF CWT	SEEDING MIXTURE NO. 40 LB	SEED WATER MGAL	SEED WATER MGAL	PREPARING TOPSOIL FOR LAWN TYPE TURF SY	SPV.0180.01					
0010	PROJECT	100	100	0.10	10	2	100	UNDISTRIBUTED FOR MOWED AREAS						
TOTALS		100	100	0.10	10	2	100							

EROSION CONTROL MOBILIZATION

CATEGORY	LOCATION	628.1905		628.1910	
		MOBILIZATIONS EROSION CONTROL EACH	628.1905	MOBILIZATIONS EMERGENCY EROSION CONTROL EACH	628.1910
0010	PROJECT	2	1		
TOTALS		2	1		

SILT FENCE ITEMS

CATEGORY	STATION TO STATION	OFFSET	628.1504		628.1520	
			SILT FENCE LF	628.1504	SILT FENCE MAINTENANCE LF	628.1520
0010	2+94 - 6+25	LT & RT	500	500		
TOTAL			500	500		

INLET PROTECTION

CATEGORY	STATION	OFFSET	628.7015	
			INLET PROTECTION TYPE C EACH	628.7015
0010	22+83	RT	1	
TOTAL			1	

3

TRAFFIC CONTROL ITEMS

CATEGORY	LOCATION	STAGE DURATION DAYS	643.0300		643.0900		643.1050	
			TRAFFIC CONTROL DRUMS		TRAFFIC CONTROL SIGNS		TRAFFIC CONTROL SIGNS PCMS	
			NO.	DAY	NO.	DAY	NO.	DAY
0010	PRIOR TO PROJECT	7	10	70	--	--	2	14
	PROJECT	30	25	750	27	810	--	--
TOTALS				750		810		14

PAVEMENT MARKING ITEMS

CATEGORY	STATION TO STATION	646.1020		646.4520		646.3020		646.5220	646.5020	649.0105
		MARKING LINE EPOXY 4-INCH		MARKING LINE EPOXY 4-INCH		MARKING LINE EPOXY 8-INCH		MARKING SYMBOL	MARKING ARROW	TEMPORARY MARKING LINE
		SAME DAY		SAME DAY		SAME DAY		EPOXY	EPOXY	PAINT 4-INCH
		3' LINE 9' SKIP WHITE	3' LINE 9' SKIP WHITE	3' LINE 9' SKIP SOLID YELLOW	3' LINE 9' SKIP WHITE	3' LINE 9' SKIP SOLID WHITE	BIKE	ARROW	SOLID YELLOW	
		LF	LF	LF	LF	LF	EACH	EACH	LF	
0010	2+94 - 63+82	70	11,080	10,900	--	--	50	50	10,900	
	GOLF CLUB RD	--	--	--	25	45	--	--	--	
	MARQUARDT RD	--	--	--	25	40	--	--	--	
	EVERGREEN RD	--	--	--	20	45	--	--	--	
TOTALS		70	11,080	10,900	70	130	50	50	10,900	
			11,150			200				

3

WATER

CATEGORY	LOCATION	624.0100 MGAL
0010	PROJECT	5
TOTAL		5

GUARDRAIL ITEMS

CATEGORY	STATION TO STATION	OFFSET	614.0950 REPLACING GUARDRAIL POSTS AND BLOCKS EACH
0010	3+15 - 4+47	RT	4
TOTAL			4

SAWING

CATEGORY	STATION	OFFSET	690.0150 SAWING ASPHALT LF	COMMENTS
0020	17+02	RT	24	MH ADJUSTMENT
	20+62	RT	24	MH ADJUSTMENT
	30+79	LT	24	MH ADJUSTMENT
	36+71	RT	24	MH ADJUSTMENT
	56+40	RT	24	MH ADJUSTMENT
TOTAL			120	

CONSTRUCTION STAKING

CATEGORY	STATION TO STATION	OFFSET	650.8000 CONSTRUCTION STAKING RESURFACING REFERENCE		650.9910 CONSTRUCTION STAKING SUPPLEMENTAL CONTROL (6999-18-77)	
			LF	LS	LF	LS
0010	2+94 - 63+82	LT&RT	6,088	--	--	1
	PROJECT	--	--	--	--	1
TOTALS			6,088			1

ADJUSTING SANITARY MANHOLES AND WATER VALVES

CATEGORY	STATION TO STATION	OFFSET	611.8120.S COVER PLATES TEMPORARY EACH		SPV.0060.01 ADJUSTING SANITARY MANHOLE COVERS EACH		SPV.0060.02 ADJUSTING WATER VALVE BOXES EACH		COMMENTS
			EACH	EACH	EACH	EACH			
0020	3+75 - 4+50	RT	--	--	2	--	--	RIVERVIEW CT	
	17+20	RT	1	1	--	--	--		
	19+05	RT	--	--	1	--	--		
	20+62	RT	1	1	--	--	--		
	22+98	RT	--	--	1	--	--	GOLF CLUB RD	
	30+25 - 31+25	LT & RT	1	1	3	--	--	RIVERVIEW DR	
	35+62	RT	--	--	1	--	--		
	36+50 - 36+75	RT	1	1	1	--	--	MARQUARDT RD	
	45+00 - 46+00	RT	--	--	2	--	--	EDGEWOOD RD	
	49+25 - 50+25	LT & RT	--	--	3	--	--	HICKORY RD	
	52+75 - 53+25	LT & RT	--	--	2	--	--	WOODLAWN RD	
	56+00 - 57+00	RT	1	1	3	--	--	MAPLE HILL RD	
	59+50 - 60+50	LT & RT	--	--	3	--	--	MEADOW RD	
	62+50 - 63+50	LT & RT	--	--	3	--	--	EVERGREEN RD	
TOTALS			5	5	25				

PROJECT NO: 6999-18-77

HWY: NORTH 6TH STREET

COUNTY: MARATHON

MISCELLANEOUS QUANTITIES

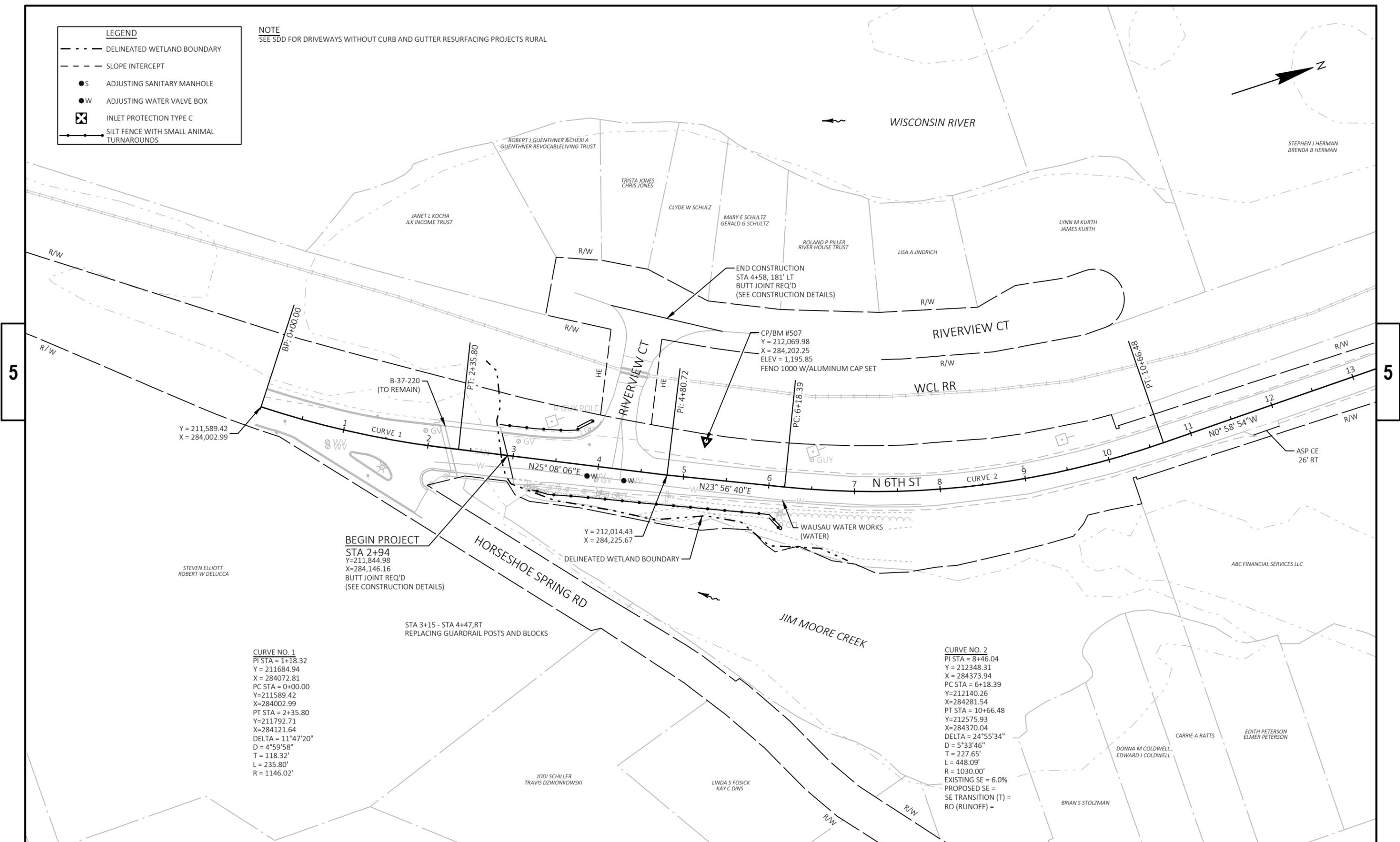
SHEET

E

LEGEND

- DELINEATED WETLAND BOUNDARY
- - - SLOPE INTERCEPT
- S ADJUSTING SANITARY MANHOLE
- W ADJUSTING WATER VALVE BOX
- ⊗ INLET PROTECTION TYPE C
- SILT FENCE WITH SMALL ANIMAL TURNAROUNDS

NOTE
SEE SDD FOR DRIVEWAYS WITHOUT CURB AND GUTTER RESURFACING PROJECTS RURAL



5

5

BEGIN PROJECT
STA 2+94
Y=211,844.98
X=284,146.16
BUTT JOINT REQ'D
(SEE CONSTRUCTION DETAILS)

STA 3+15 - STA 4+47, RT
REPLACING GUARDRAIL POSTS AND BLOCKS

CURVE NO. 1
PI STA = 1+18.32
Y = 211684.94
X = 284072.81
PC STA = 0+00.00
Y=211589.42
X=284002.99
PT STA = 2+35.80
Y=211792.71
X=284121.64
DELTA = 11°47'20"
D = 4°59'58"
T = 118.32'
L = 235.80'
R = 1146.02'

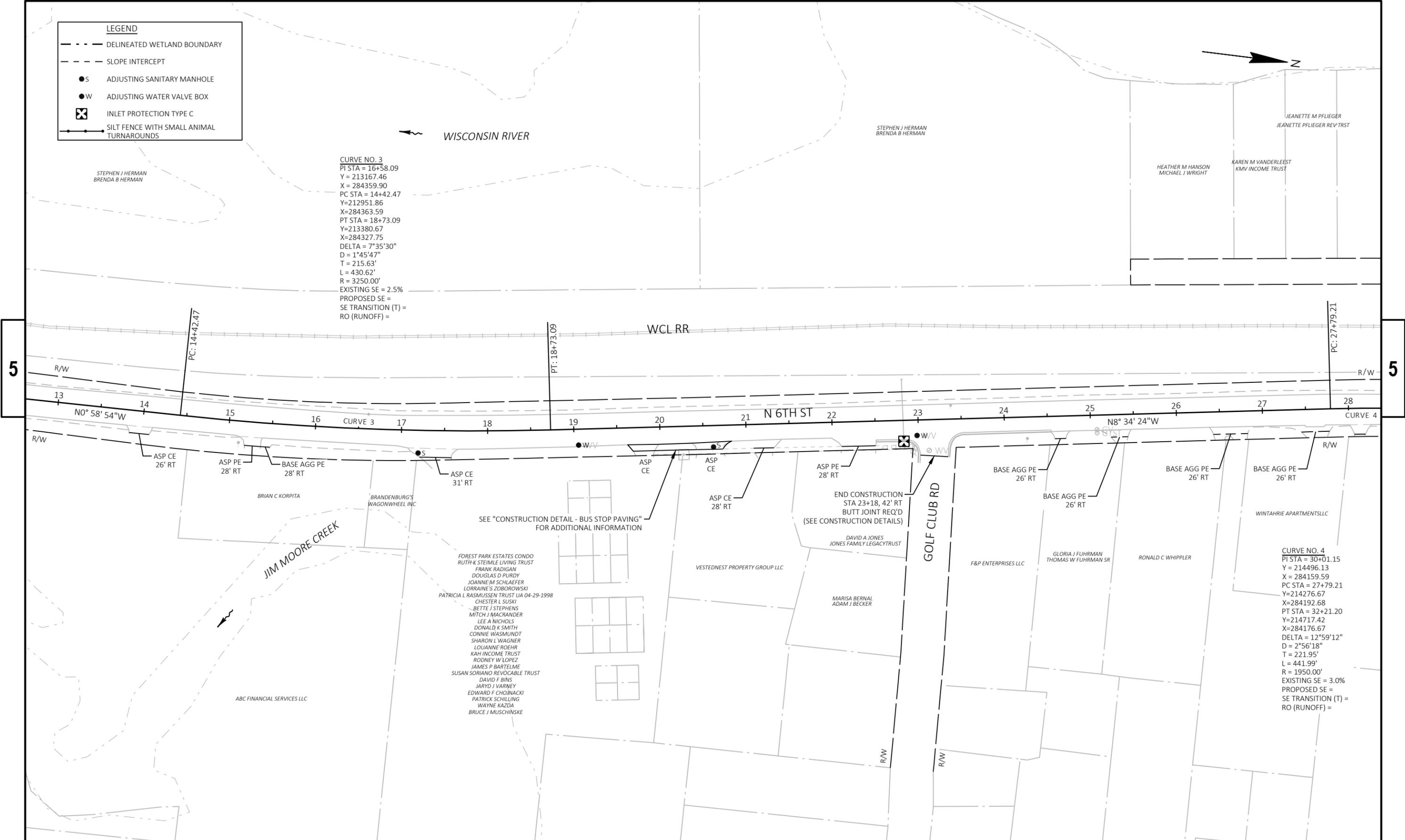
CURVE NO. 2
PI STA = 8+46.04
Y = 212348.31
X = 284373.94
PC STA = 6+18.39
Y=212140.26
X=284281.54
PT STA = 10+66.48
Y=212575.93
X=284370.04
DELTA = 24°55'34"
D = 5°33'46"
T = 227.65'
L = 448.09'
R = 1030.00'
EXISTING SE = 6.0%
PROPOSED SE =
SE TRANSITION (T) =
RO (RUNOFF) =

LEGEND

- DELINEATED WETLAND BOUNDARY
- SLOPE INTERCEPT
- S ADJUSTING SANITARY MANHOLE
- W ADJUSTING WATER VALVE BOX
- ⊗ INLET PROTECTION TYPE C
- SILT FENCE WITH SMALL ANIMAL TURNAROUNDS

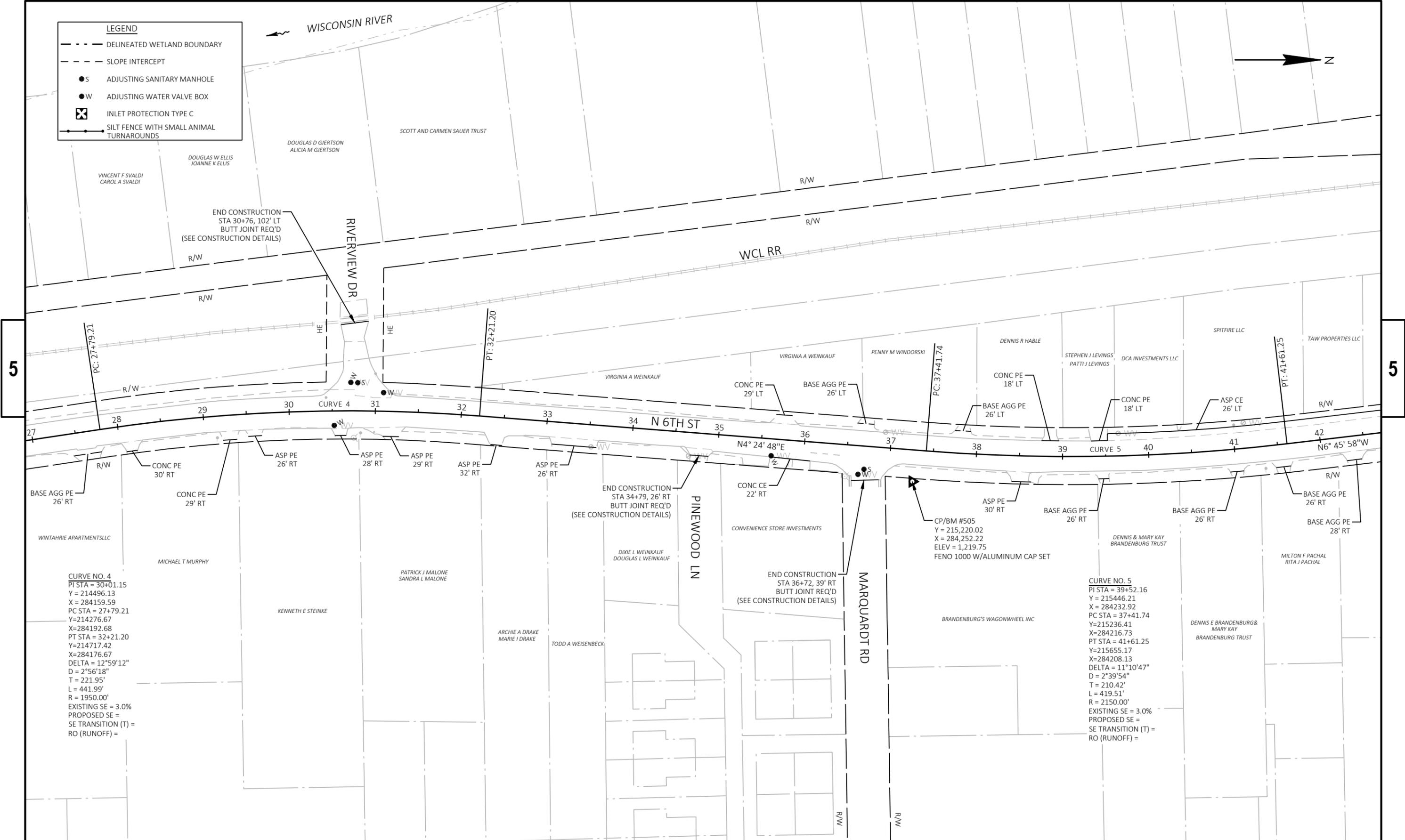
CURVE NO. 3
 PI STA = 16+58.09
 Y = 213167.46
 X = 284359.90
 PC STA = 14+42.47
 Y = 212951.86
 X = 284363.59
 PT STA = 18+73.09
 Y = 213380.67
 X = 284327.75
 DELTA = 7°35'30"
 D = 1°45'47"
 T = 215.63'
 L = 430.62'
 R = 3250.00'
 EXISTING SE = 2.5%
 PROPOSED SE =
 SE TRANSITION (T) =
 RO (RUNOFF) =

CURVE NO. 4
 PI STA = 30+01.15
 Y = 214496.13
 X = 284159.59
 PC STA = 27+79.21
 Y = 214276.67
 X = 284192.68
 PT STA = 32+21.20
 Y = 214717.42
 X = 284176.67
 DELTA = 12°59'12"
 D = 2°56'18"
 T = 221.95'
 L = 441.99'
 R = 1950.00'
 EXISTING SE = 3.0%
 PROPOSED SE =
 SE TRANSITION (T) =
 RO (RUNOFF) =



LEGEND

- DELINEATED WETLAND BOUNDARY
- - - SLOPE INTERCEPT
- S ADJUSTING SANITARY MANHOLE
- W ADJUSTING WATER VALVE BOX
- ⊗ INLET PROTECTION TYPE C
- SILT FENCE WITH SMALL ANIMAL TURNAROUNDS



LEGEND

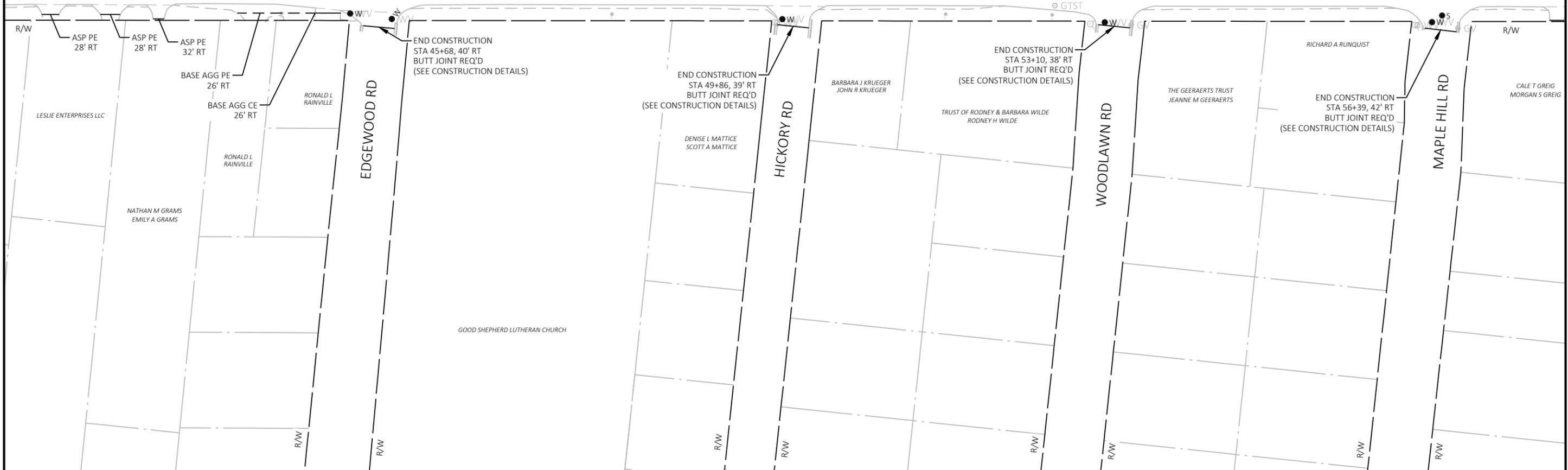
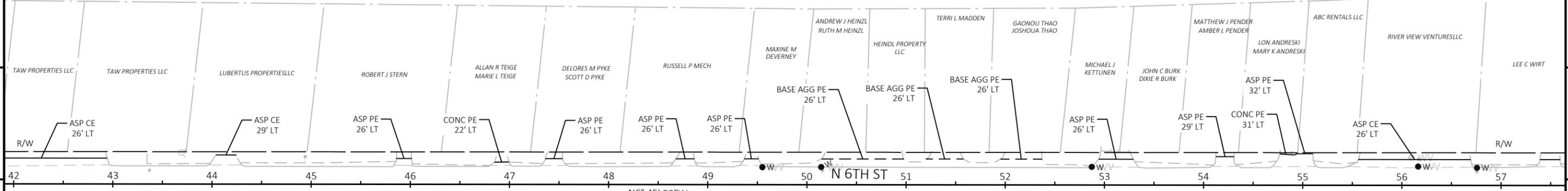
- DELINEATED WETLAND BOUNDARY
- - - SLOPE INTERCEPT
- S ADJUSTING SANITARY MANHOLE
- W ADJUSTING WATER VALVE BOX
- ⊗ INLET PROTECTION TYPE C
- SILT FENCE WITH SMALL ANIMAL TURNAROUNDS



WCL RR

5

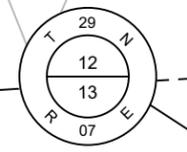
5



PROJECT NO: 6999-18-77 NORTH 6TH ST COUNTY: MARATHON PLAN SHEET E

LEGEND

- DELINEATED WETLAND BOUNDARY
- SLOPE INTERCEPT
- S ADJUSTING SANITARY MANHOLE
- W ADJUSTING WATER VALVE BOX
- ⊗ INLET PROTECTION TYPE C
- SILT FENCE WITH SMALL ANIMAL TURNAROUNDS



LANDMARK
REFERENCE
MONUMENTS

CURVE NO. 6
 PI STA = 65+24.37
 Y = 218001.84
 X = 283929.71
 PC STA = 58+52.77
 Y = 217334.92
 X = 284008.83
 PT STA = 71+72.47
 Y = 218565.25
 X = 283564.17
 DELTA = 26°12'32"
 D = 1°59'10"
 T = 671.60'
 L = 1319.69'
 R = 2885.00'
 EXISTING SE = 4.0%
 PROPOSED SE =
 SE TRANSITION (T) =
 RO (RUNOFF) =

CP/BM #506
 Y = 217,747.05
 X = 283,876.06
 ELEV = 1,223.67

FENO 1000 W/ALUMINUM CAP SET

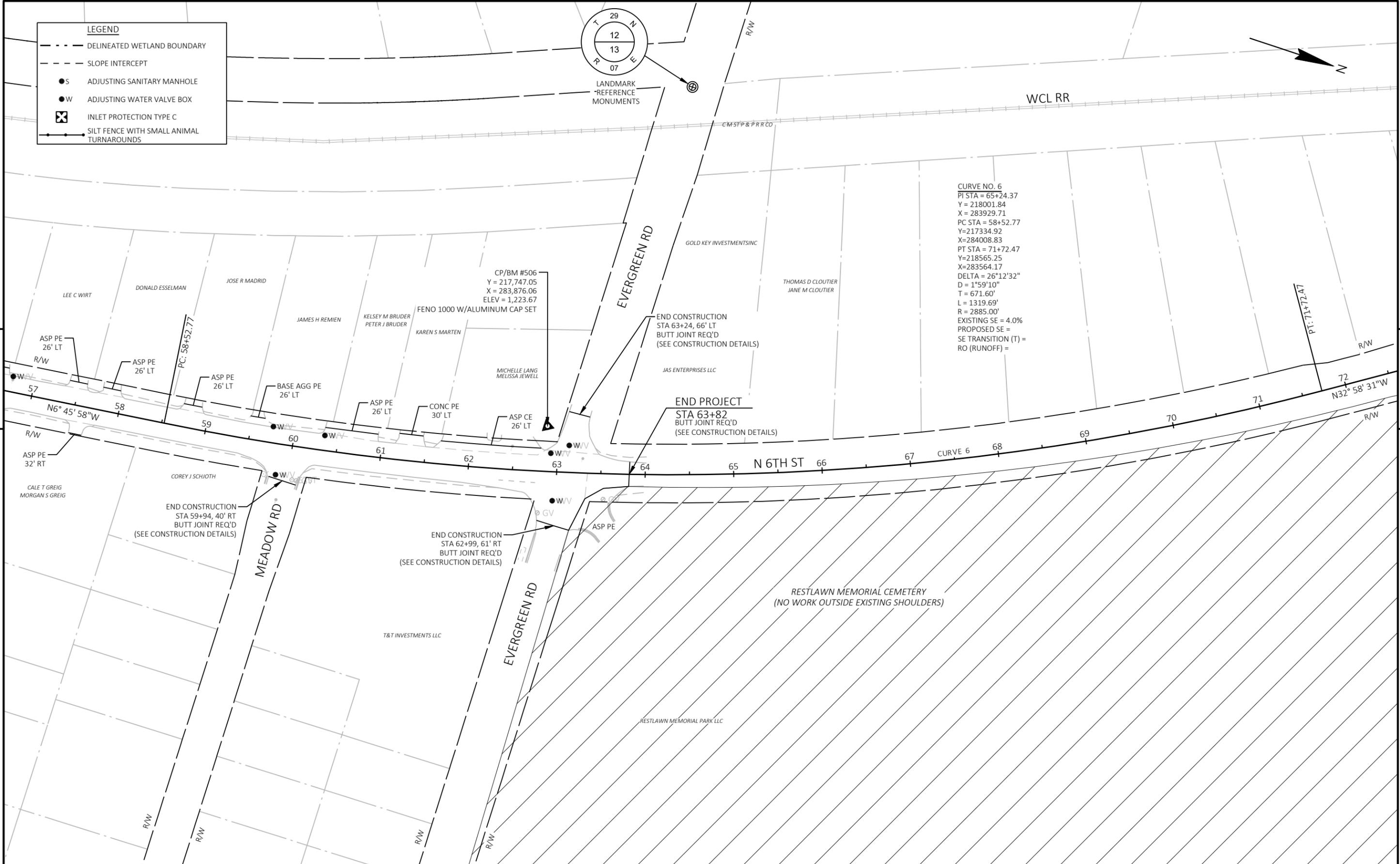
END CONSTRUCTION
 STA 63+24, 66' LT
 BUTT JOINT REQ'D
 (SEE CONSTRUCTION DETAILS)

END PROJECT
 STA 63+82
 BUTT JOINT REQ'D
 (SEE CONSTRUCTION DETAILS)

END CONSTRUCTION
 STA 59+94, 40' RT
 BUTT JOINT REQ'D
 (SEE CONSTRUCTION DETAILS)

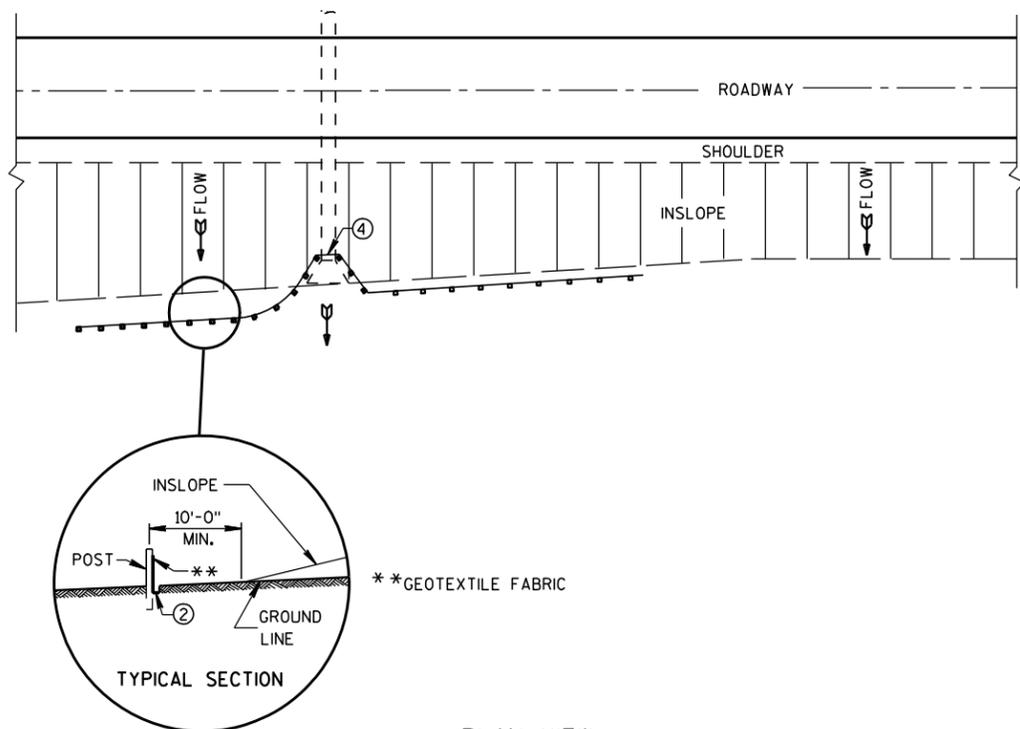
END CONSTRUCTION
 STA 62+99, 61' RT
 BUTT JOINT REQ'D
 (SEE CONSTRUCTION DETAILS)

RESTLAWN MEMORIAL CEMETERY
 (NO WORK OUTSIDE EXISTING SHOULDERS)

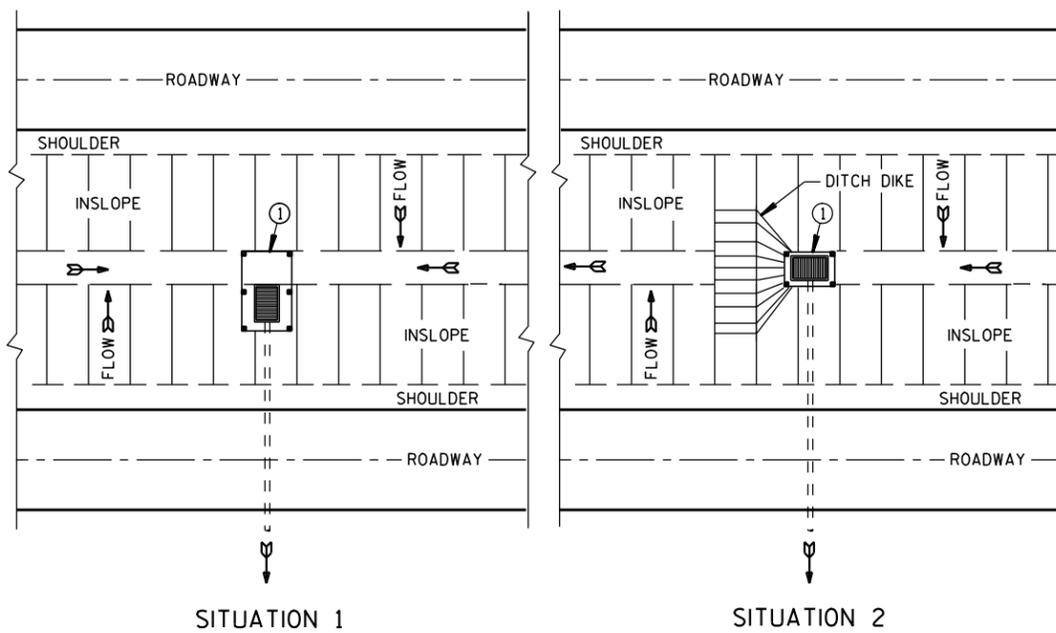


Standard Detail Drawing List

08E09-06	SILT FENCE
08E10-02	INLET PROTECTION TYPE A, B, C AND D
13C19-03	HMA LONGITUDINAL JOINTS
14B15-11A	STEEL PLATE BEAM GUARD, CLASS "A" INSTALLATION & ELEMENTS
14B15-11B	STEEL PLATE BEAM GUARD, CLASS "A" INSTALLATION & ELEMENTS
14B15-11C	STEEL PLATE BEAM GUARD, CLASS "A", INSTALLATION & ELEMENTS
15C04-05	TRAFFIC CONTROL, ADVANCE WARNING SIGNS 45 M.P.H. OR GREATER TWO-WAY UNDIVIDED ROAD OPEN TO TRAFFIC
15C05-05	TRAFFIC CONTROL, ADVANCE WARNING SIGNS 40 M.P.H. OR LESS
15C07-15C	PAVEMENT MARKING ARROWS
15C07-15E	PAVEMENT MARKING FOR BIKE LANES
15C08-20A	LONGITUDINAL MARKING (MAINLINE)
15C11-09B	CHANNELIZING DEVICES DRUMS, CONES, BARRICADES AND VERTICAL PANELS
15C12-07	TRAFFIC CONTROL FOR LANE CLOSURE WITH FLAGGING OPERATION
15C29-07A	BICYCLE LANE MARKING
15C35-04A	PAVEMENT MARKING (INTERSECTIONS)
15D39-02	TRAFFIC CONTROL, DROP-OFF SIGNING
15D44-02	TRAFFIC CONTROL, SIGNING ON ROADWAYS WITH MILLED SURFACES



PLAN VIEW
TYPICAL APPLICATION OF SILT FENCE

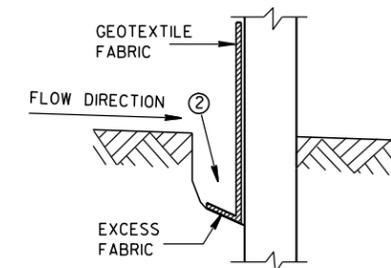


SITUATION 1 SITUATION 2
PLAN VIEW
SILT FENCE AT MEDIAN SURFACE DRAINS

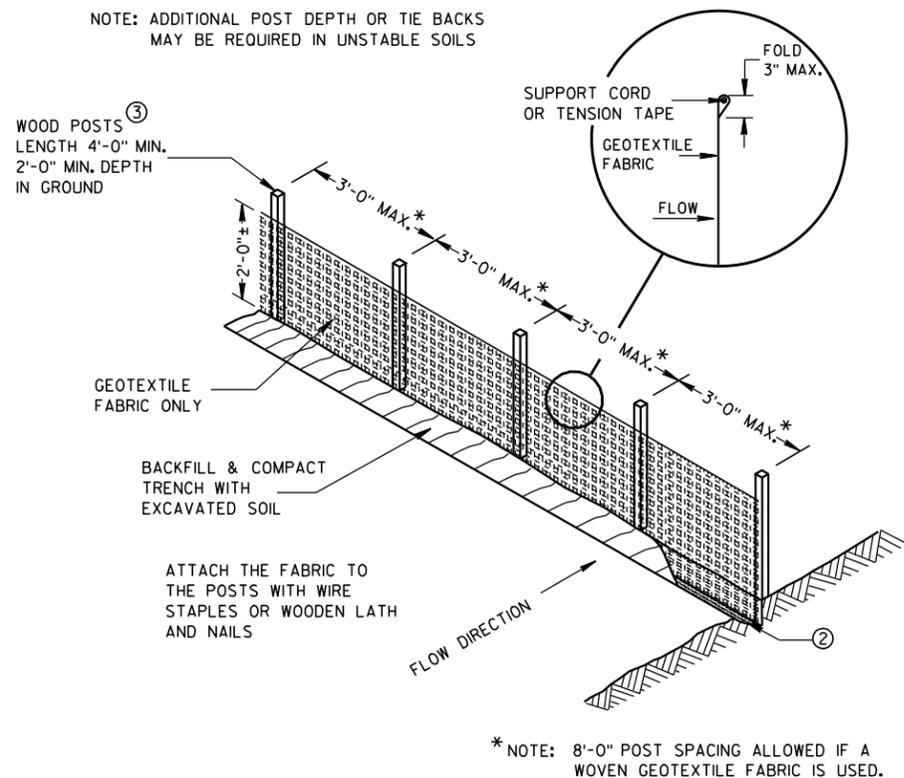
GENERAL NOTES

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

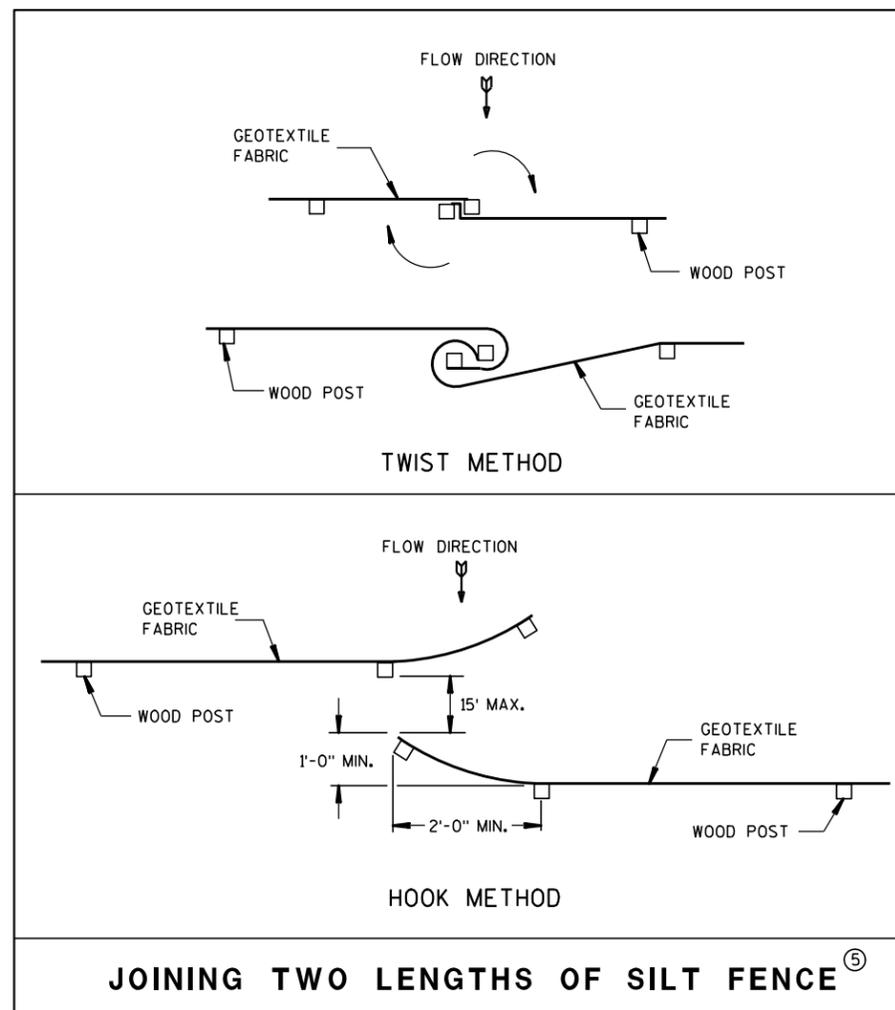
- ① HORIZONTAL BRACE REQUIRED WITH 2" X 4" WOODEN FRAME OR EQUIVALENT AT TOP OF POSTS.
- ② FOR MANUAL INSTALLATIONS THE TRENCH SHALL BE A MINIMUM OF 4" WIDE & 6" DEEP TO BURY AND ANCHOR THE GEOTEXTILE FABRIC. FOLD MATERIAL TO FIT TRENCH AND BACKFILL & COMPACT TRENCH WITH EXCAVATED SOIL.
- ③ WOOD POSTS SHALL BE A MINIMUM SIZE OF 1 1/8" X 1 1/8" OF OAK OR HICKORY.
- ④ SILT FENCE TO EXTEND ACROSS THE TOP OF THE PIPE.
- ⑤ CONSTRUCT SILT FENCE FROM A CONTINUOUS ROLL IF POSSIBLE BY CUTTING LENGTHS TO AVOID JOINTS. IF A JOINT IS NECESSARY USE ONE OF THE FOLLOWING TWO METHODS; A) OVERLAP THE END POSTS AND TWIST, OR ROTATE, AT LEAST 180 DEGREES, B) HOOK THE END OF EACH SILT FENCE LENGTH.



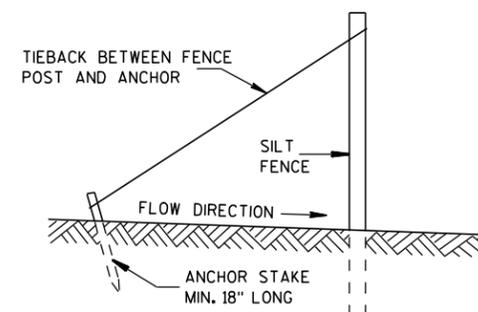
TRENCH DETAIL



SILT FENCE



JOINING TWO LENGTHS OF SILT FENCE ⑤

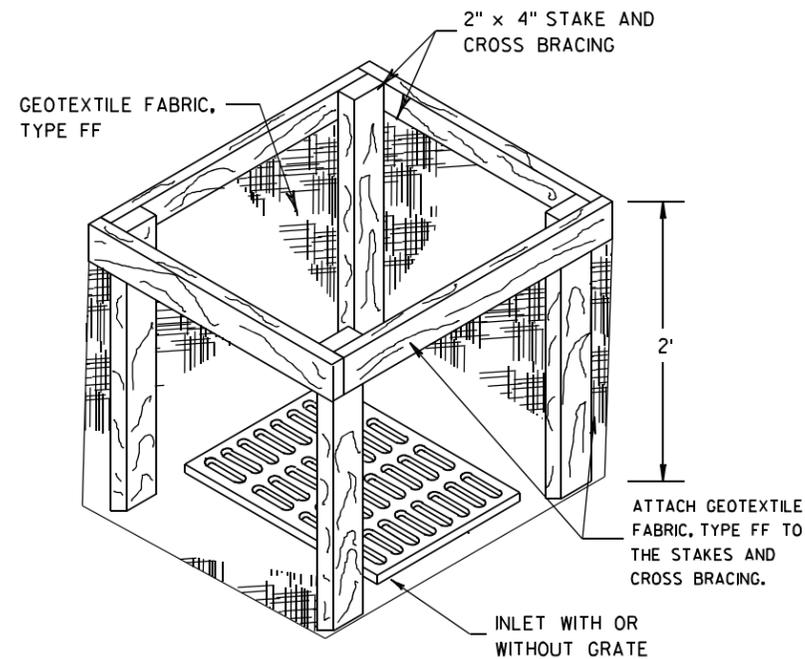
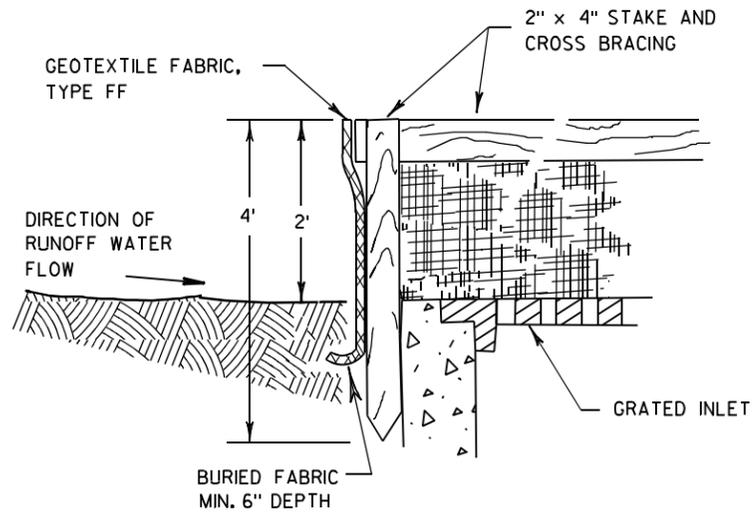


SILT FENCE TIE BACK
(WHEN REQUIRED BY THE ENGINEER)

SILT FENCE

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
4-29-05 /S/ Beth Cannestra
DATE CHIEF ROADWAY DEVELOPMENT ENGINEER
FHWA



INLET PROTECTION, TYPE A

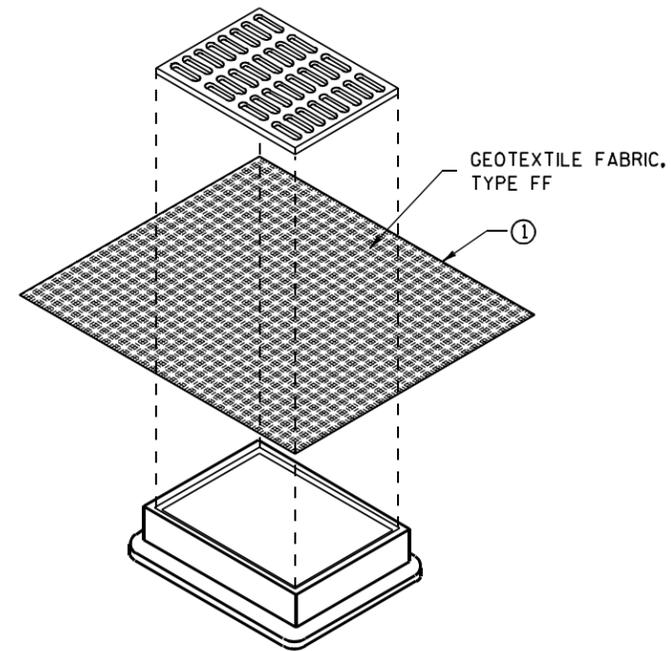
GENERAL NOTES

INLET PROTECTION DEVICES SHALL BE MAINTAINED OR REPLACED AT THE DIRECTION OF THE ENGINEER.

MANUFACTURED ALTERNATIVES APPROVED AND LISTED ON THE DEPARTMENT'S EROSION CONTROL PRODUCT ACCEPTABILITY LIST MAY BE SUBSTITUTED.

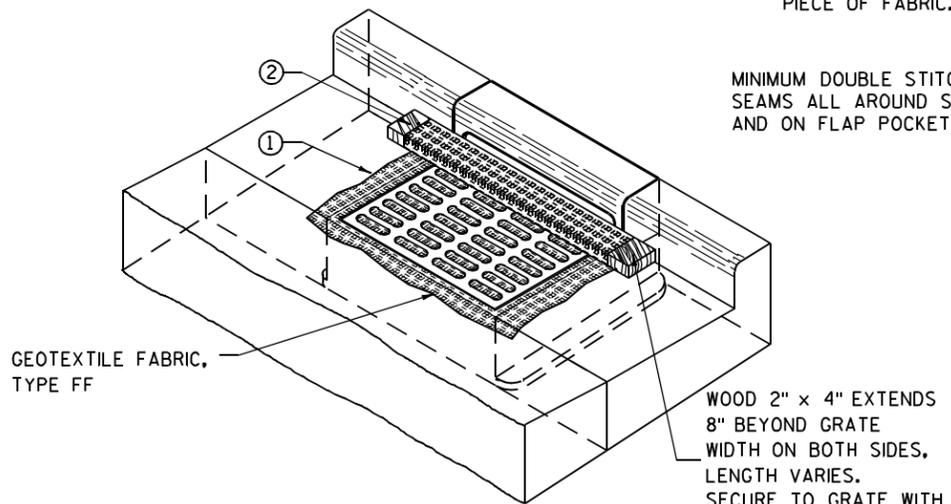
WHEN REMOVING OR MAINTAINING INLET PROTECTION, CARE SHALL BE TAKEN SO THAT THE SEDIMENT TRAPPED ON THE GEOTEXTILE FABRIC DOES NOT FALL INTO THE INLET. ANY MATERIAL FALLING INTO THE INLET SHALL BE REMOVED IMMEDIATELY.

- ① FINISHED SIZE, INCLUDING FLAP POCKETS WHERE REQUIRED, SHALL EXTEND A MINIMUM OF 10" AROUND THE PERIMETER TO FACILITATE MAINTENANCE OR REMOVAL.
- ② FOR INLET PROTECTION, TYPE C (WITH CURB BOX), AN ADDITIONAL 18" OF FABRIC IS WRAPPED AROUND THE WOOD AND SECURED WITH STAPLES. THE WOOD SHALL NOT BLOCK THE ENTIRE HEIGHT OF THE CURB BOX OPENING.
- ③ FLAP POCKETS SHALL BE LARGE ENOUGH TO ACCEPT WOOD 2X4.



**INLET PROTECTION, TYPE B
(WITHOUT CURB BOX)**

(CAN BE INSTALLED IN ANY INLET WITHOUT A CURB BOX)



INLET PROTECTION, TYPE C (WITH CURB BOX)

INSTALLATION NOTES

TYPE B & C

TRIM EXCESS FABRIC IN THE FLOW LINE TO WITHIN 3" OF THE GRATE.

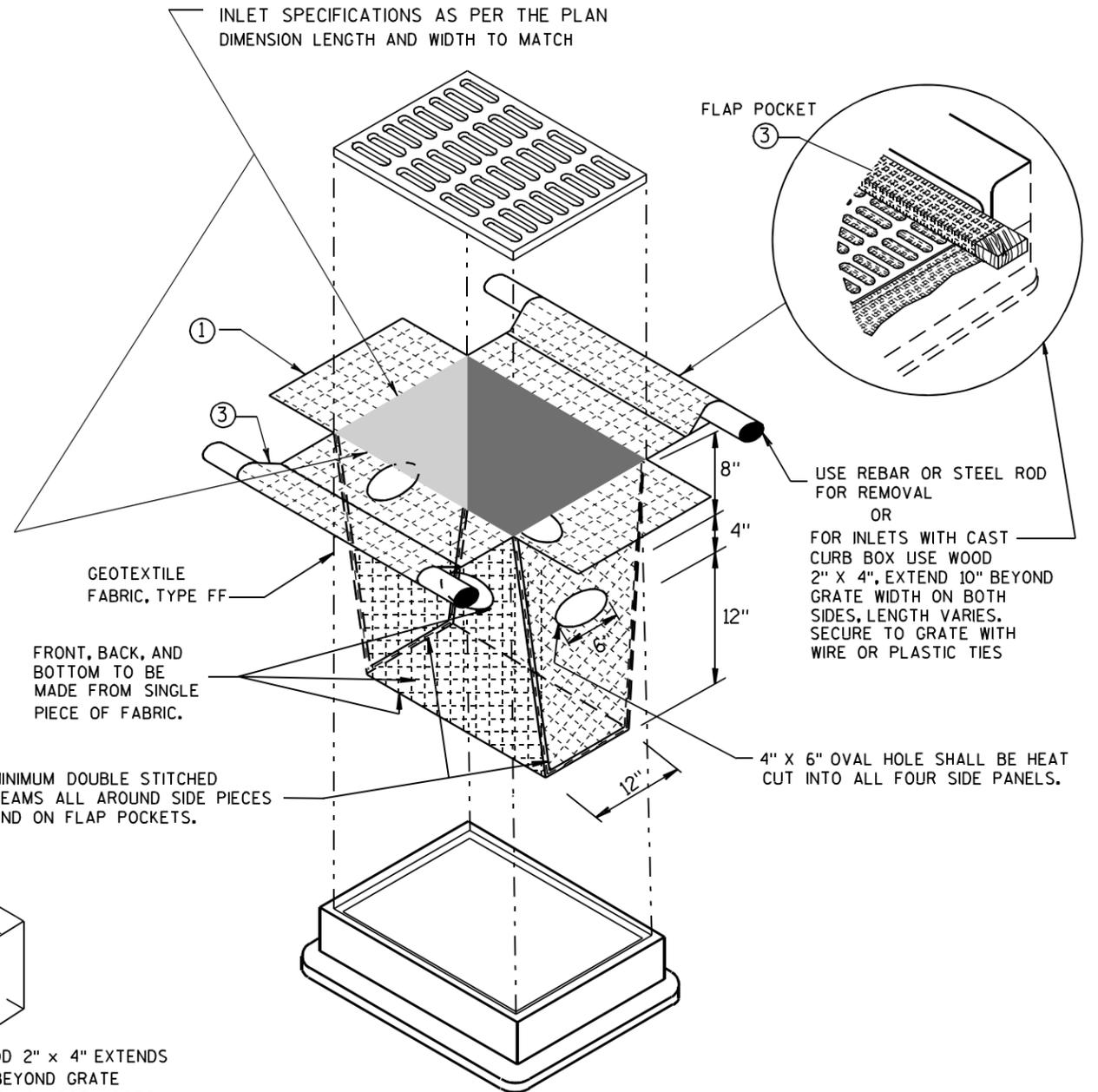
THE CONTRACTOR SHALL DEMONSTRATE A METHOD OF MAINTENANCE, USING A SEWN FLAP, HAND HOLDS OR OTHER METHOD TO PREVENT ACCUMULATED SEDIMENT FROM ENTERING THE INLET.

TYPE D

DO NOT INSTALL INLET PROTECTION TYPE D IN INLETS SHALLOWER THAN 30", MEASURED FROM THE BOTTOM OF THE INLET TO THE TOP OF THE GRATE.

TRIM EXCESS FABRIC IN THE FLOW LINE TO WITHIN 3" OF THE GRATE.

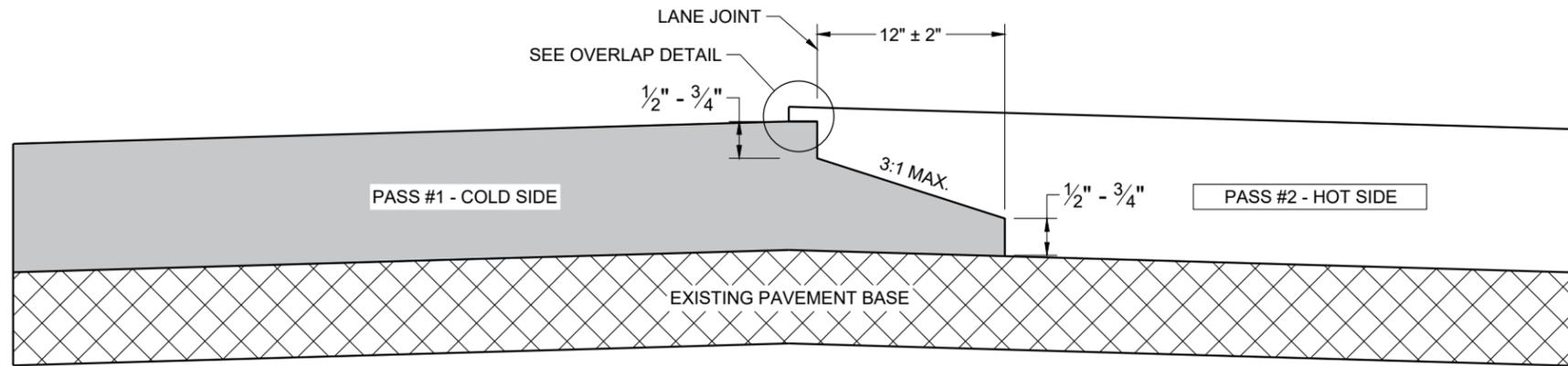
THE INSTALLED BAG SHALL HAVE A MINIMUM SIDE CLEARANCE, BETWEEN THE INLET WALLS AND THE BAG, MEASURED AT THE BOTTOM OF THE OVERFLOW HOLES, OF 3". WHERE NECESSARY THE CONTRACTOR SHALL CINCH THE BAG, USING PLASTIC ZIP TIES, TO ACHIEVE THE 3" CLEARANCE. THE TIES SHALL BE PLACED AT A MAXIMUM OF 4" FROM THE BOTTOM OF THE BAG.



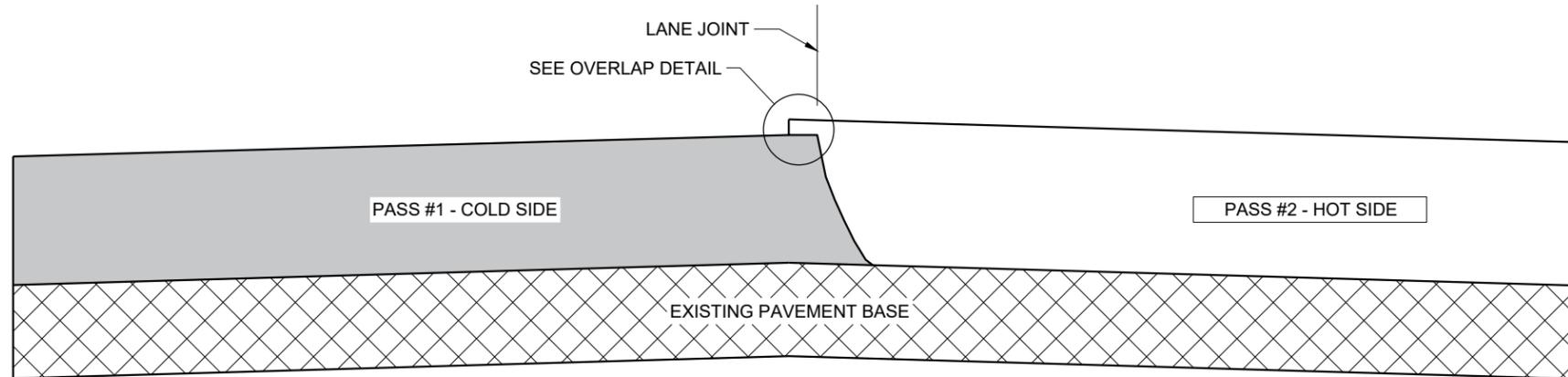
INLET PROTECTION, TYPE D

(CAN BE INSTALLED IN ANY INLET TYPE WITH OR WITHOUT A CURB BOX AS PER NOTE ②)

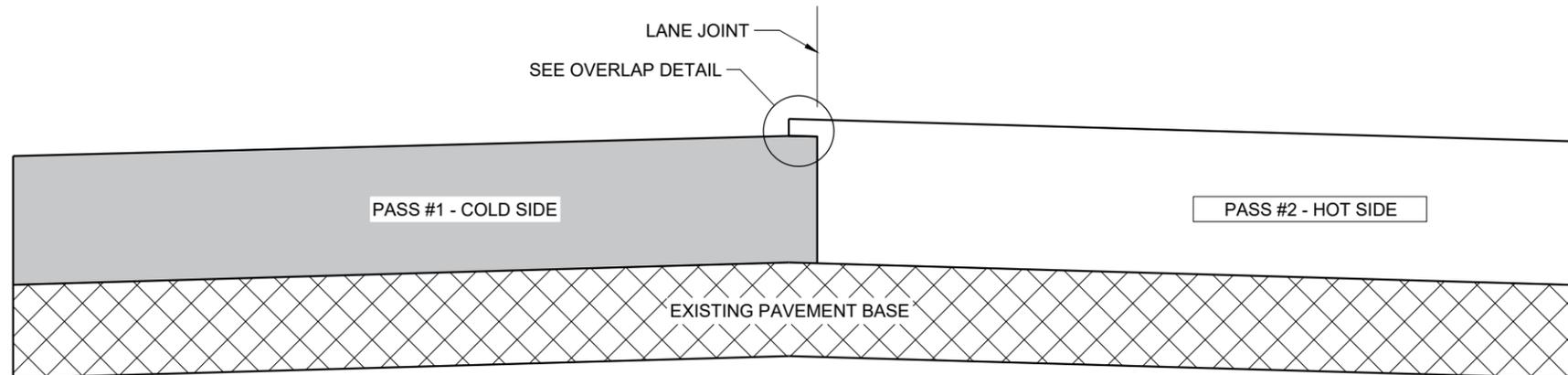
INLET PROTECTION TYPE A, B, C, AND D	
STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION	
APPROVED 10/16/02 DATE	/S/ Beth Connestra CHIEF ROADWAY DEVELOPMENT ENGINEER
FHWA	



TYPICAL PAVEMENT CROSS SECTION NOTCHED WEDGE JOINT



TYPICAL PAVEMENT CROSS SECTION VERTICAL JOINT



TYPICAL PAVEMENT CROSS SECTION VERTICAL JOINT (MILLED)

GENERAL NOTES

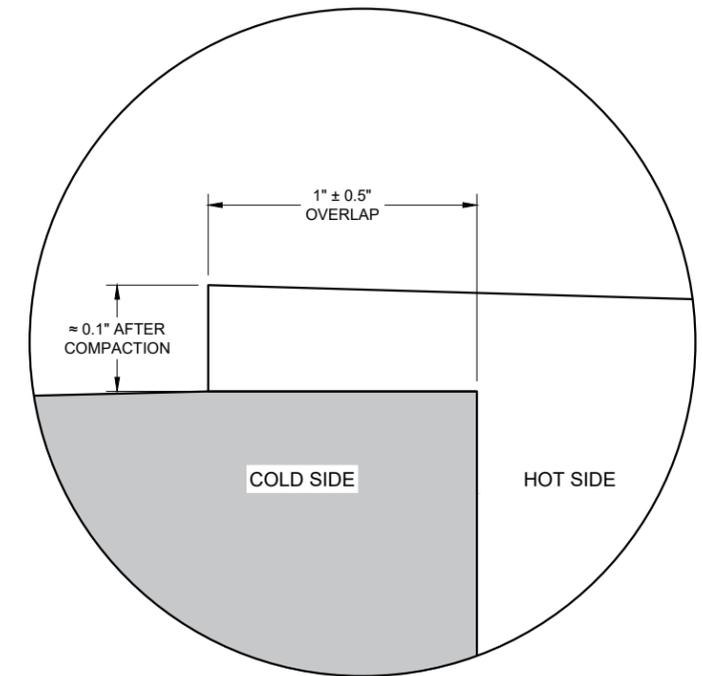
IN ADDITION TO THE DETAILS PROVIDED IN THIS DRAWING, CONFORM TO STANDARD SPECIFICATION 450.3.2.8 FOR WHEN A NOTCHED WEDGE JOINT IS REQUIRED AND FOR GENERAL JOINT CONSTRUCTION REQUIREMENTS.

FOR ALL LONGITUDINAL JOINTS, ENSURE THE PAVER SCREED OVERLAPS THE PREVIOUSLY PLACED PAVEMENT BY $1" \pm 0.5"$ AND THE HOT SIDE OF THE JOINT REMAINS HIGHER THAN THE COLD SIDE BY APPROXIMATELY 0.1" AFTER FINAL COMPACTION. (IT WILL BE FLUSH WHEN PAVING IN ECHELON.)

ONLY REMOVE THE LONGITUDINAL NOTCHED WEDGE JOINT FOR SMA PAVEMENT OR AS DIRECTED BY THE ENGINEER TO ADDRESS SPECIFIC LENGTHS OF JOINT DAMAGED BY TRAFFIC.

WHEN MILLING BACK OR REMOVING ANY LONGITUDINAL JOINT, LIMIT THE MATERIAL REMOVED TO 2" FROM THE TOP NOTCH OR FROM THE VERTICAL JOINT EDGE ON THE COLD SIDE OF THE JOINT.

USE LONGITUDINAL MILLED JOINT AS PLANS SHOW OR THE AS THE ENGINEER DIRECTS.



OVERLAP DETAIL (TYPICAL)

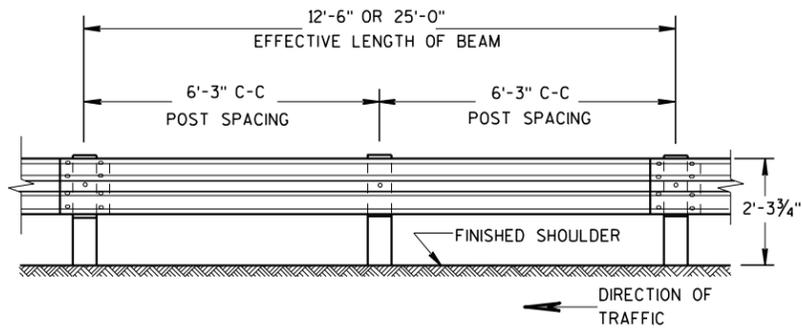
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SDD 13C19 - 03

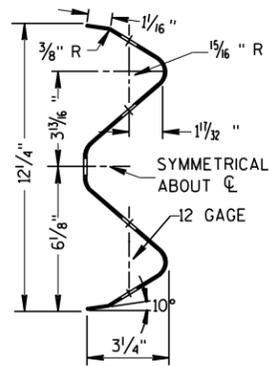
SDD 13C19 - 03

HMA LONGITUDINAL JOINTS	
STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION	
APPROVED November 2020 DATE	/S/ Steven Hefel HMA PAVEMENT ENGINEER
FHWA	

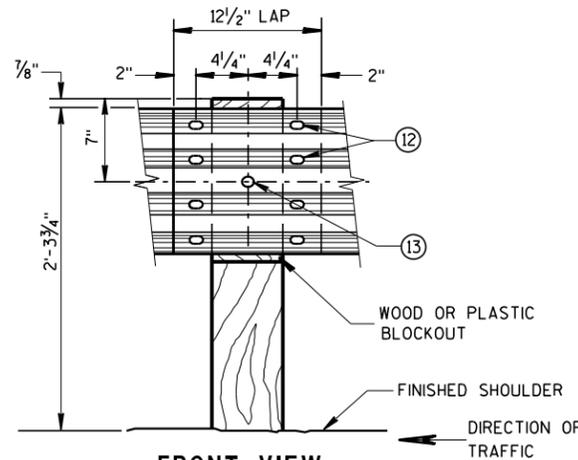


FRONT VIEW

POST SPACING STANDARD INSTALLATION



SECTION THRU W BEAM

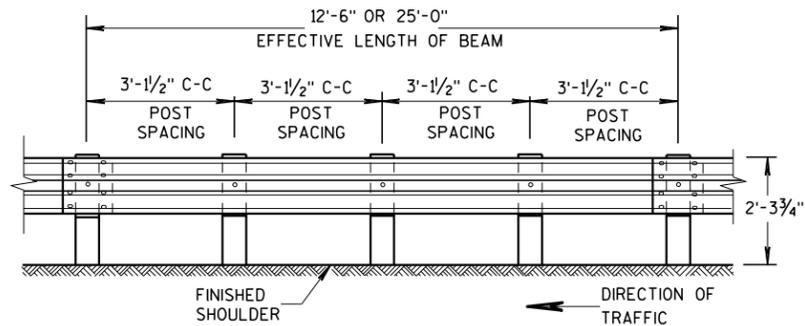


FRONT VIEW
BEAM SPLICE AT WOOD POST
AND POST MOUNTING DETAIL

GENERAL NOTES

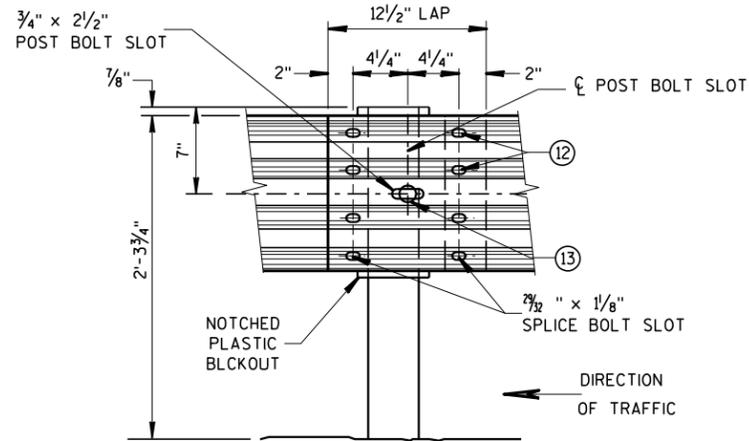
FURNISH GUARDRAIL DEFLECTORS FROM APPROVED PRODUCTS LIST.

- ⑨ DO NOT INSTALL REFLECTORS ON THE FIRST 50 FEET OF THE APPROACH END OF THE ENERGY ABSORBING TERMINA. START REFLECTORS AT POST #9 AND SPACE EVENLY EVERY 100 FEET (MAX.) TO THE END OF GUARDRAIL RUN, USING A MINIMUM OF 3 REFLECTORS.
- ⑫ 8 - 5/8" ϕ X 2" BUTTON HEAD BOLTS WITH OVAL SHOULDERS & RECESS NUTS.
- ⑬ 5/8" DIA. BUTTON HEAD BOLT AND RECESS NUT WITH 5/8" DIA. F844 FLAT WASHER UNDER NUT.

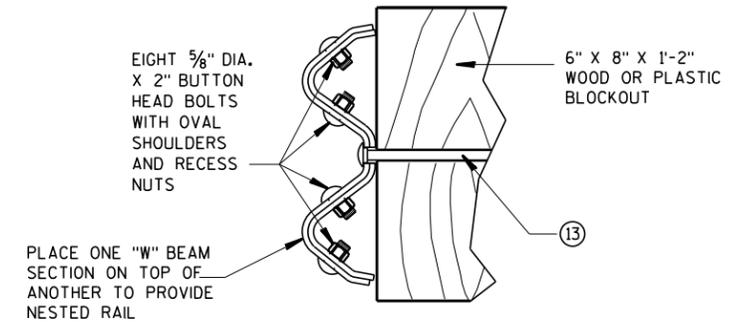


FRONT VIEW

POST SPACING FOR LONGER POST
AT HALF POST SPACING W BEAM (LHW)



FRONT VIEW
BEAM SPLICE AT STEEL POST
TYPICAL SPlicing DETAILS
OF STEEL PLATE BEAM GUARD



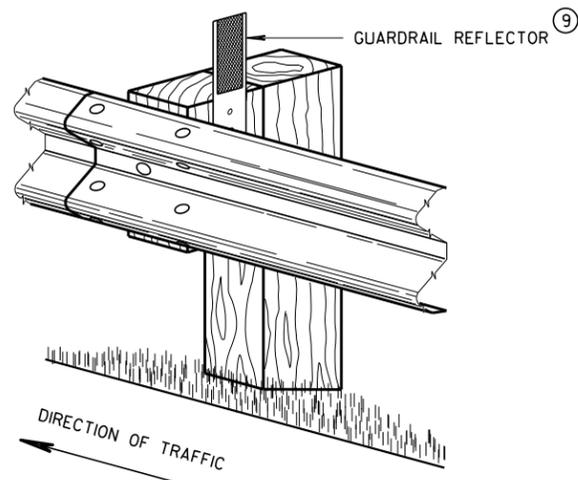
NESTED W BEAM (NW)

USE ALL OTHER STANDARD BEAM GUARD DETAILS FOR CONSTRUCTING NESTED W BEAM (NW)

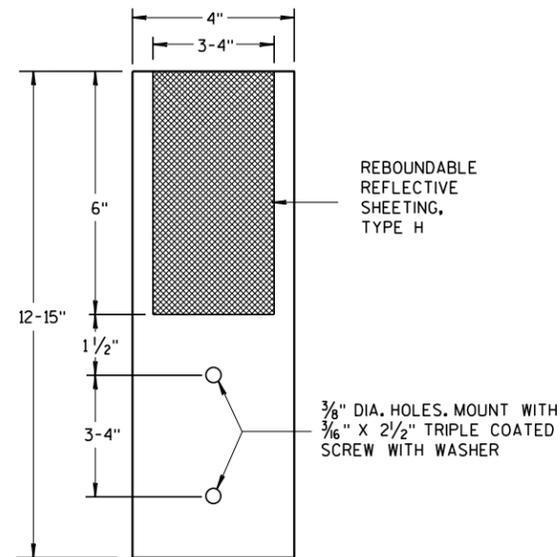
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6

* USE DOUBLE SIDED WHITE GUARDRAIL REFLECTORS ON ROADWAYS WITH BI-DIRECTIONAL TRAFFIC (NO MEDIAN). USE SINGLE SIDED WHITE (RIGHT SIDE) AND SINGLE SIDED YELLOW (LEFT SIDE) ON ROADWAYS WITH MEDIAN SEPARATION.



4" X 12" GUARDRAIL REFLECTOR DETAIL
AND TYPICAL INSTALLATION *



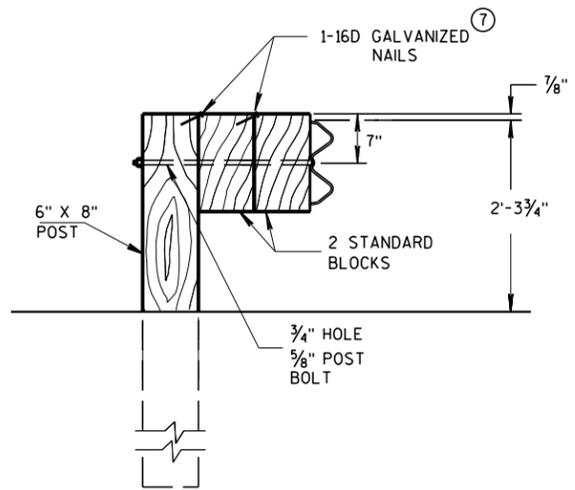
4" x 12" GUARDRAIL REFLECTOR

STEEL PLATE BEAM GUARD,
CLASS "A",
INSTALLATION & ELEMENTS

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

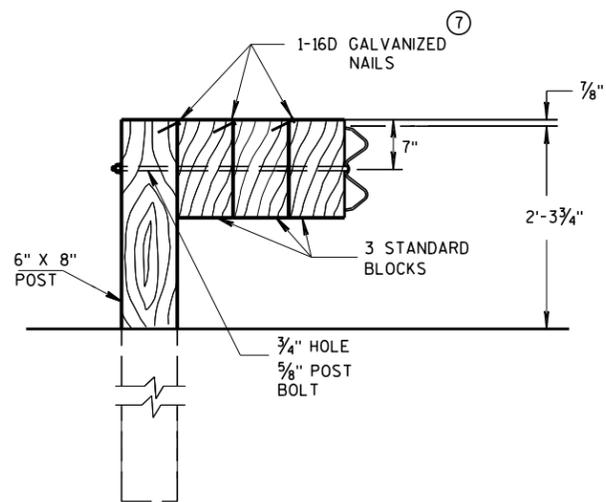
S.D.D. 14 B 15-11b

S.D.D. 14 B 15-11b



DETAIL FOR DOUBLE BLOCKS

THE NUMBER OF DOUBLE BLOCK POSTS WITHIN A BARRIER RUN IS UNLIMITED

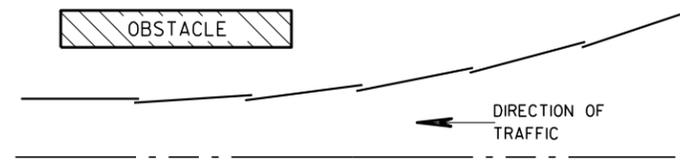


DETAIL FOR TRIPLE BLOCKS

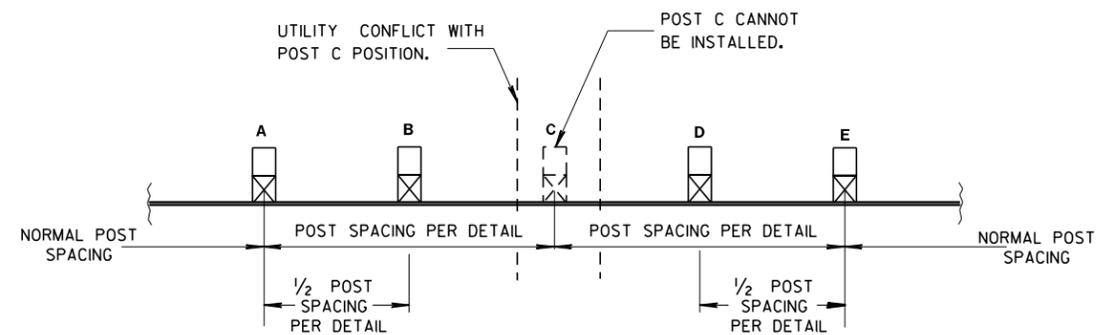
TRIPLE BLOCK DETAIL IS LIMITED TO ONE LOCATION WITHIN A BEAM GUARD RUN.

NOTES: USE DOUBLE OR TRIPLE BLOCKS WHEN UNDERGROUND OBSTACLES PREVENT THE POST FROM BEING INSTALLED.

DO NOT USE EXTRA BLOCKOUTS IF IT CAUSES THE POST TO BE DRIVEN BEYOND SHOULDER HINGE POINT OR CAUSES A FIXED OBJECT TO BE WITHIN THE DEFLECTION DISTANCE OF THE BARRIER.



**PLAN VIEW
BEAM LAPPING DETAIL**



**POST DRIVING FOR CONTINUOUS
UNDERGROUND OBSTRUCTION**

STEEL PLATE BEAM GUARD, CLASS "A", INSTALLATION & ELEMENTS	
STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION	
APPROVED June 2017	/s/ Rodney Taylor
DATE	ROADWAY STANDARDS DEVELOPMENT UNIT SUPERVISOR
FHWA	

GENERAL NOTES

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

THE SPACING BETWEEN TRAFFIC CONTROL SIGNS SHOULD BE ADJUSTED TO NOT CONFLICT WITH AND SHOULD PROVIDE A MINIMUM OF 200 FEET (500 FEET DESIRABLE) CLEARANCE TO EXISTING SIGNS THAT WILL REMAIN IN PLACE.

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

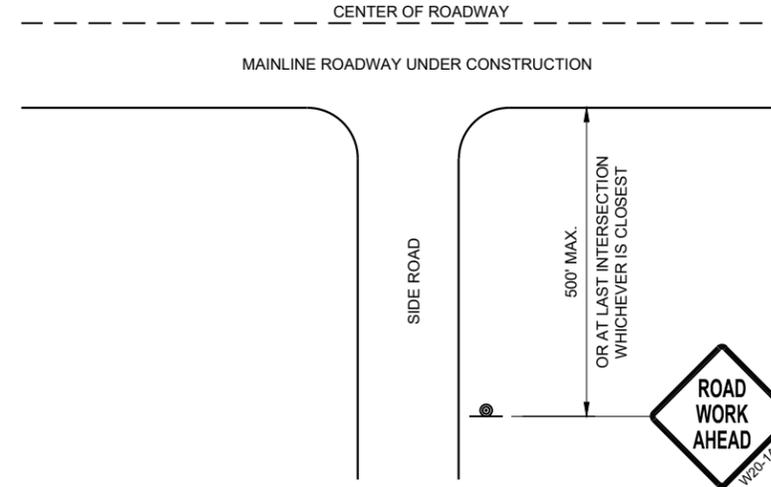
SIGNS THAT WILL BE IN PLACE LESS THAN SEVEN CONTINUOUS DAYS AND NIGHTS MAY BE MOUNTED ON PORTABLE SUPPORTS.

IF A "STOP" SIGN MUST BE REMOVED FOR A WORK OPERATION, A TEMPORARY "STOP" SIGN SHALL BE PLACED PRIOR TO THE SIGN REMOVAL, OR A FLAGGER SHALL BE PROVIDED UNTIL THE SIGN IS REESTABLISHED.

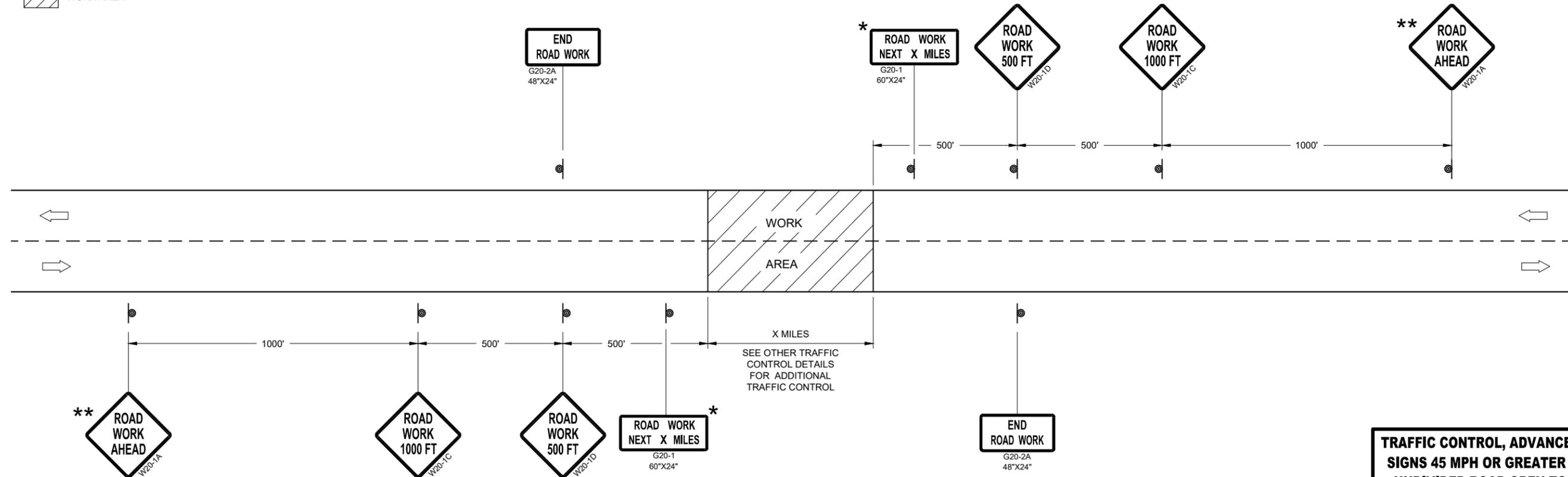
- * OMIT G20-1 SIGNS IF LENGTH OF WORK AREA IS 2 MILES OR LESS
- ** PLACE AN ADDITIONAL W20-1A "ROAD WORK AHEAD" SIGN IF WORK AREA WITHIN THE PROJECT IS SEPARATED BY MORE THAN 2 MILES FROM PREVIOUS WORK AREA.

LEGEND

-  SIGN ON PERMANENT SUPPORT
-  DIRECTION OF TRAFFIC
-  WORK AREA



**TYPICAL SIDE ROAD APPROACH
WARNING SIGN DETAIL**



TRAFFIC CONTROL, ADVANCE WARNING SIGNS 45MPH OR GREATER

**TRAFFIC CONTROL, ADVANCE WARNING
SIGNS 45 MPH OR GREATER TWO-WAY
UNDIVIDED ROAD OPEN TO TRAFFIC**

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
DATE July 2018 /S/ Andrew Heidtke
WORK ZONE ENGINEER

FHWA

GENERAL NOTES

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

THE SPACING BETWEEN TRAFFIC CONTROL SIGNS SHOULD BE ADJUSTED TO NOT CONFLICT WITH AND SHOULD PROVIDE A MINIMUM OF 200 FEET (500 FEET DESIRABLE) CLEARANCE TO EXISTING SIGNS THAT WILL REMAIN IN PLACE.

ALL SIGNS ARE 48" X 48" UNLESS OTHERWISE NOTED. IF NECESSARY DUE TO SPACE CONSTRAINTS, 36"X36" SIGNS MAY BE USED INSTEAD OF 48" X 48" SIGNS.

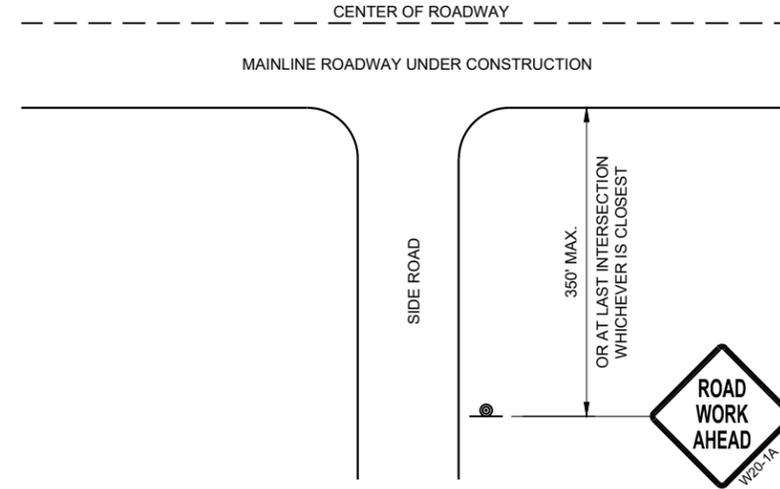
SIGNS THAT WILL BE IN PLACE LESS THAN SEVEN CONTINUOUS DAYS AND NIGHTS MAY BE MOUNTED ON PORTABLE SUPPORTS.

IF A "STOP" SIGN MUST BE REMOVED FOR A WORK OPERATION, A TEMPORARY "STOP" SIGN SHALL BE PLACED PRIOR TO THE SIGN REMOVAL, OR A FLAGGER SHALL BE PROVIDED UNTIL THE SIGN IS REESTABLISHED.

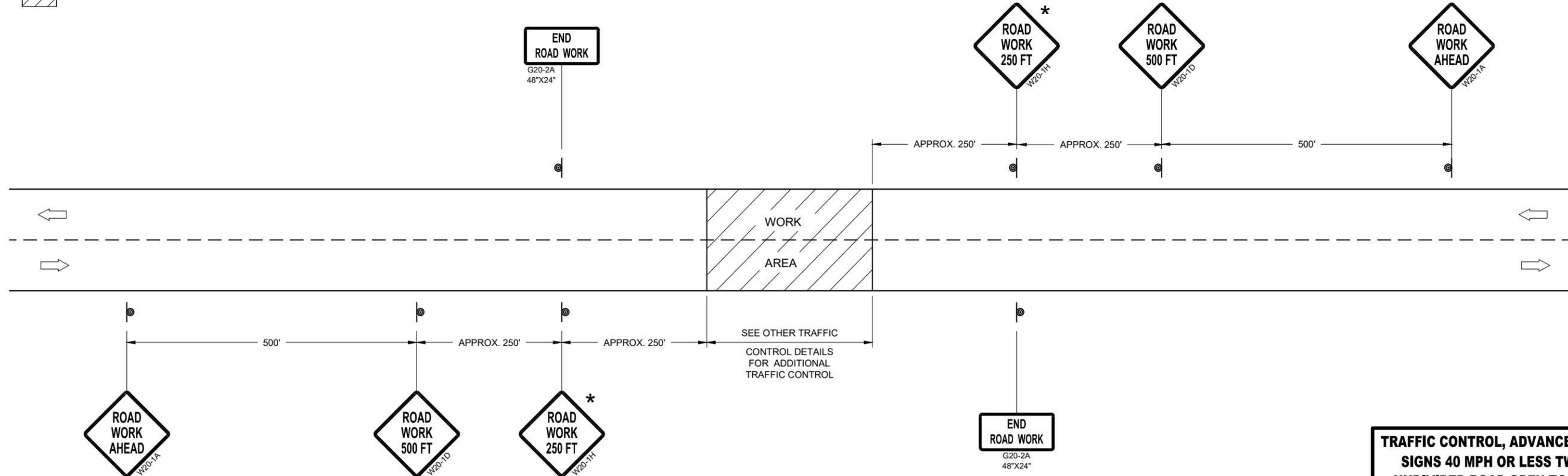
* THE THIRD W20-1 SIGN IS REQUIRED ONLY IF THERE IS AN INTERSECTION BETWEEN THE "ROAD WORK 500 FEET" SIGN AND THE WORK ZONE. ADJUST THE PLACEMENT OF THIS SIGN BASED ON INTERSECTION LOCATION AND OTHER FIELD CONDITIONS.

LEGEND

-  SIGN ON PERMANENT SUPPORT
-  DIRECTION OF TRAFFIC
-  WORK AREA



**TYPICAL SIDE ROAD APPROACH
WARNING SIGN DETAIL**



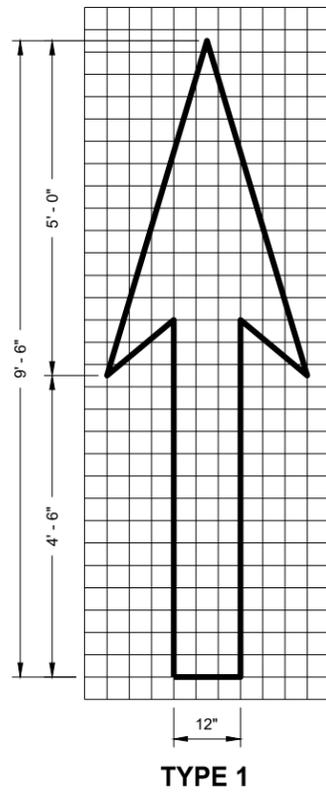
TRAFFIC CONTROL, ADVANCE WARNING SIGNS 40MPH OR LESS

**TRAFFIC CONTROL, ADVANCE WARNING
SIGNS 40 MPH OR LESS TWO-WAY
UNDIVIDED ROAD OPEN TO TRAFFIC**

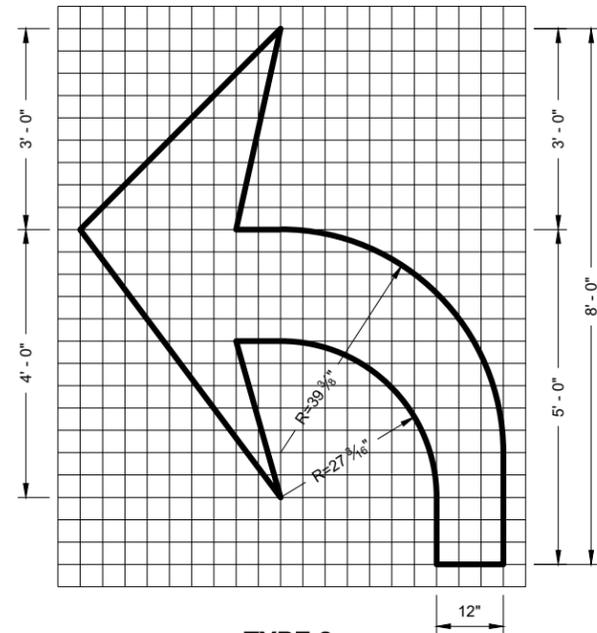
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
July 2018 /S/ Andrew Heidtke
DATE WORK ZONE ENGINEER

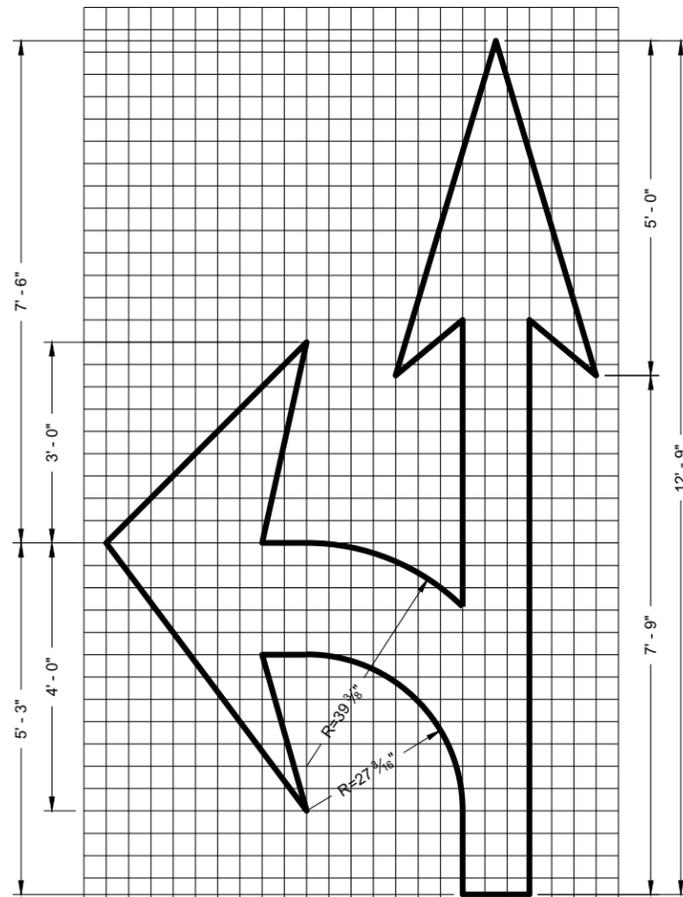
FHWA



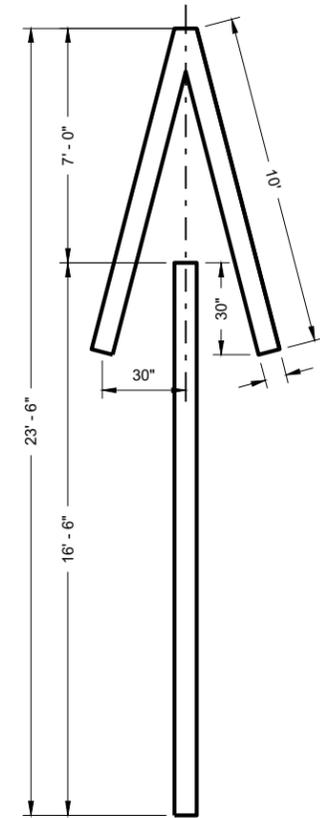
TYPE 1



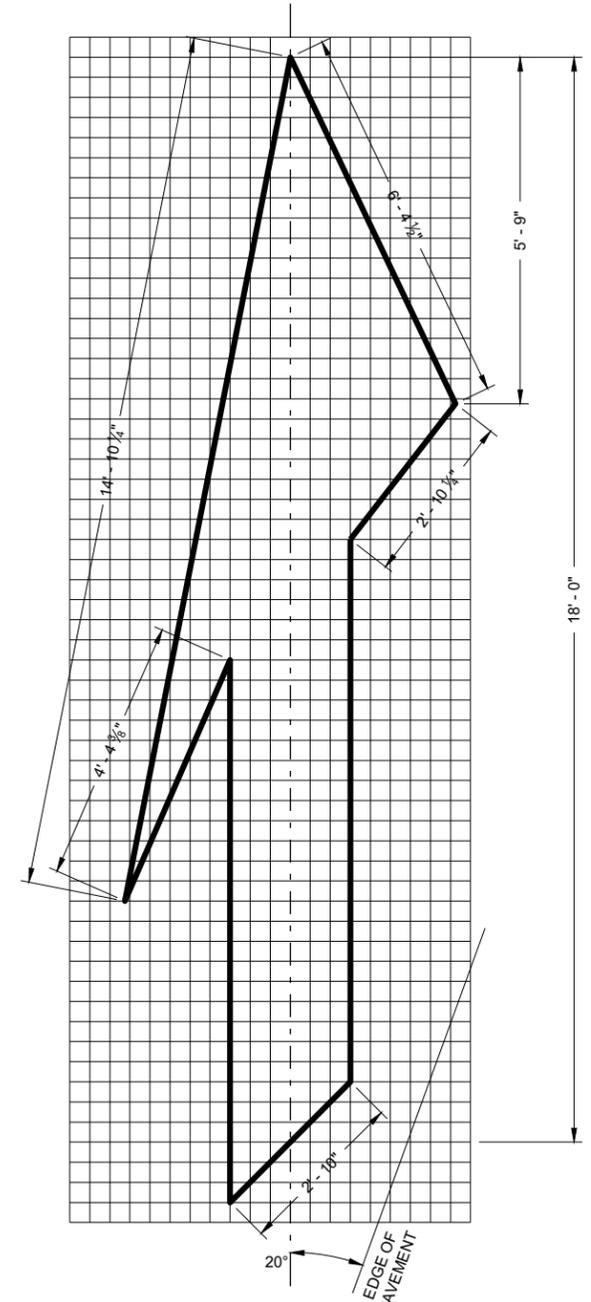
TYPE 2



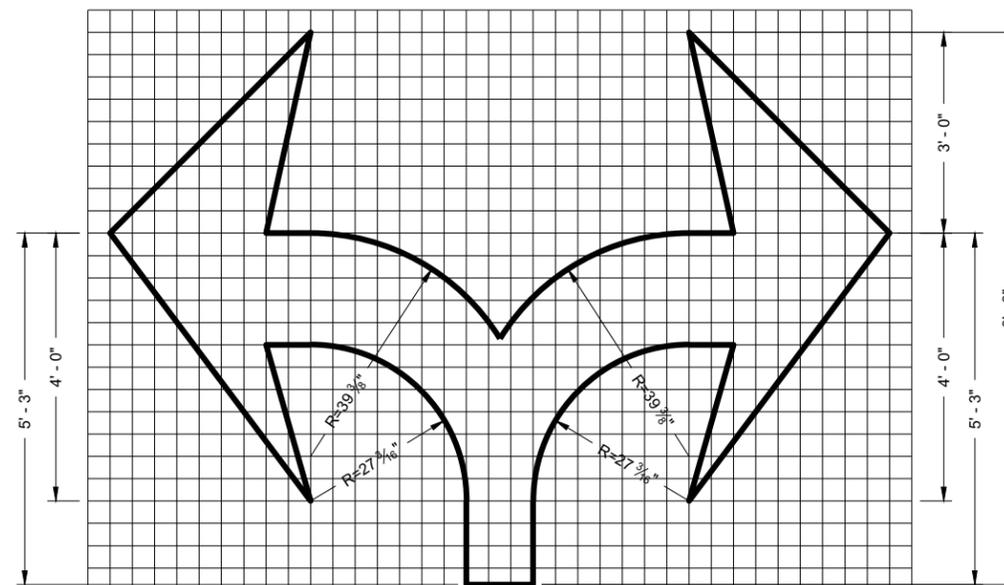
TYPE 3



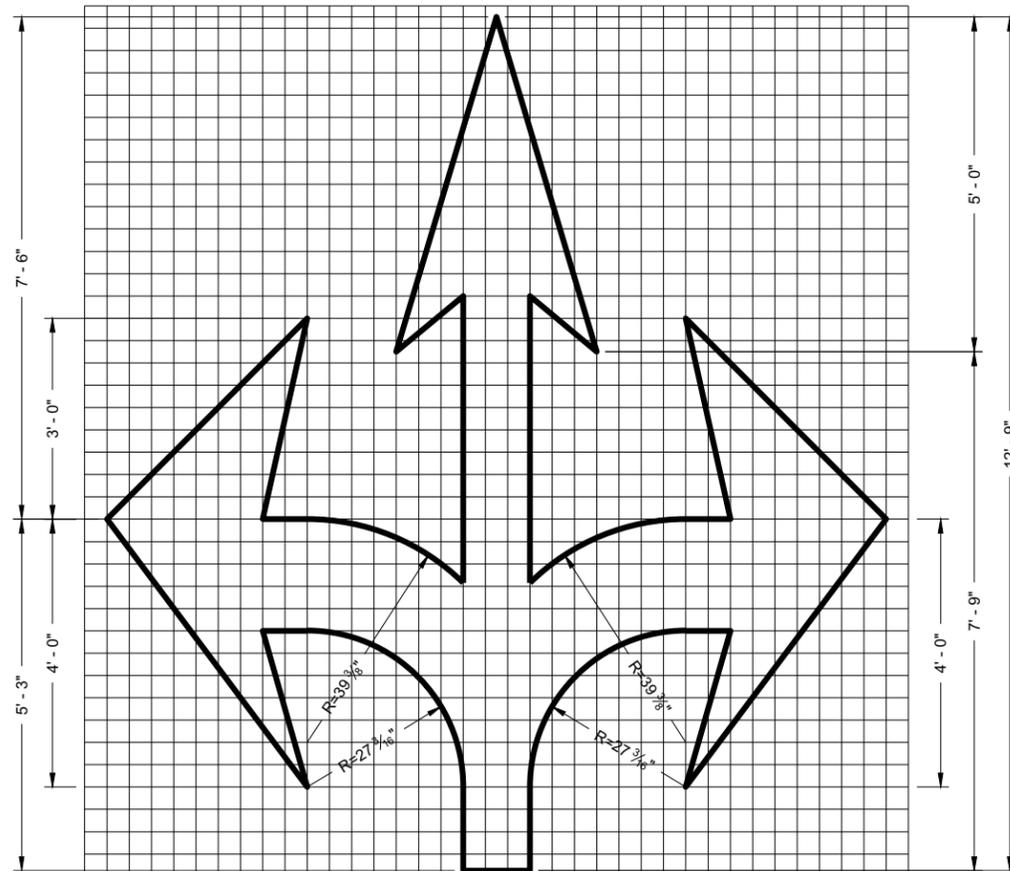
TYPE 4



TYPE 5 LANE DROP ARROW



TYPE 7



TYPE 6

GENERAL NOTES

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

PAVEMENT MARKING ARROWS

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

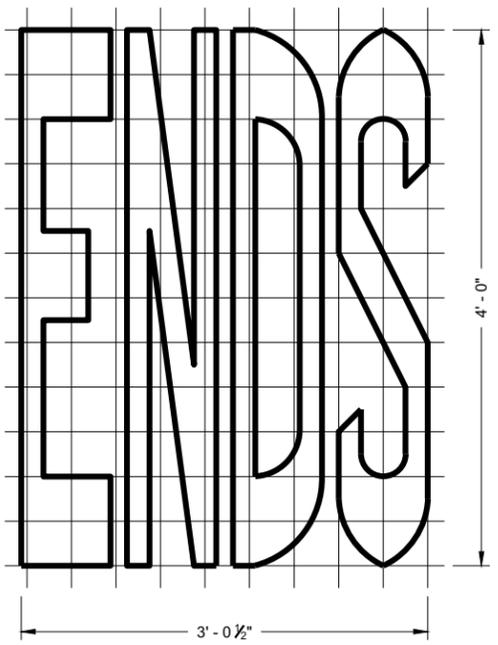
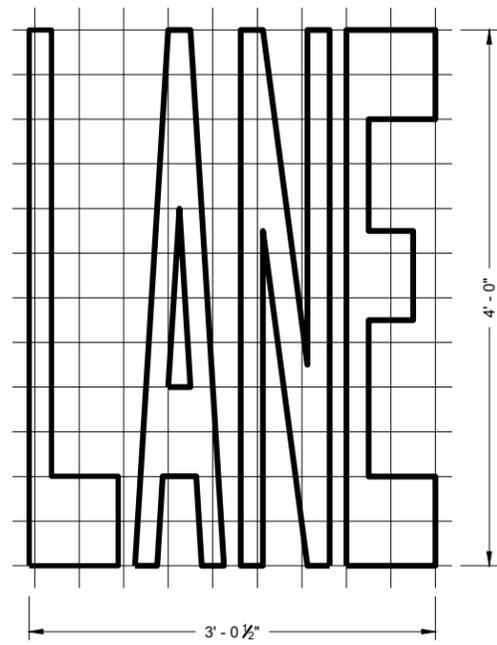
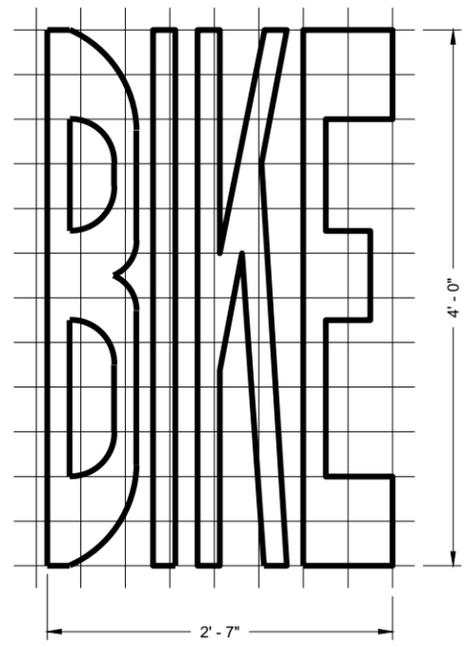
APPROVED

November 2019

DATE

FHWA

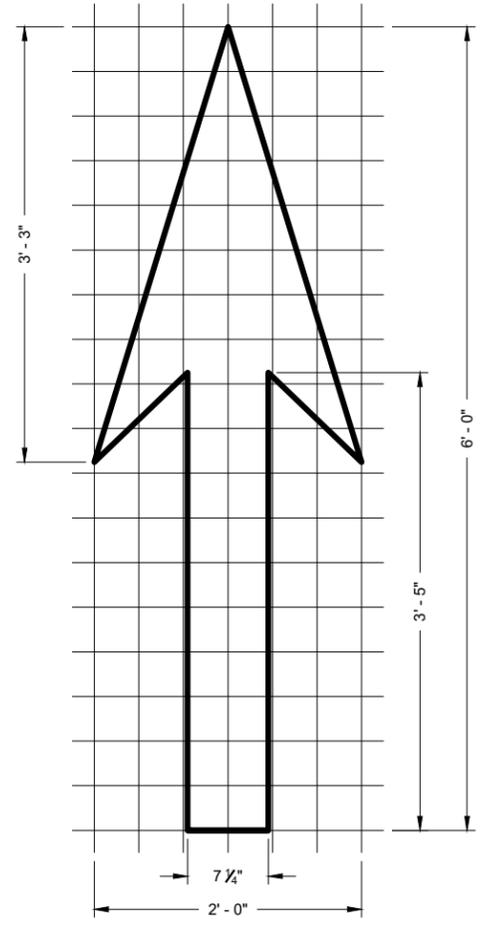
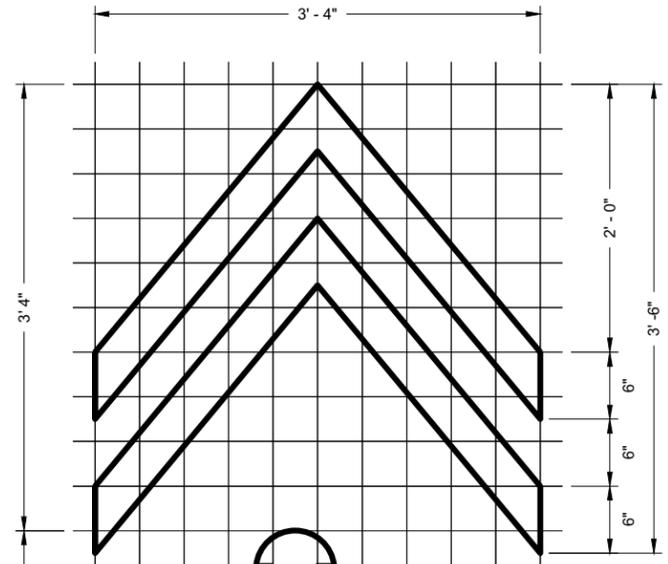
/s/ Matthew Rauch
STATE SIGNING AND MARKING
ENGINEER



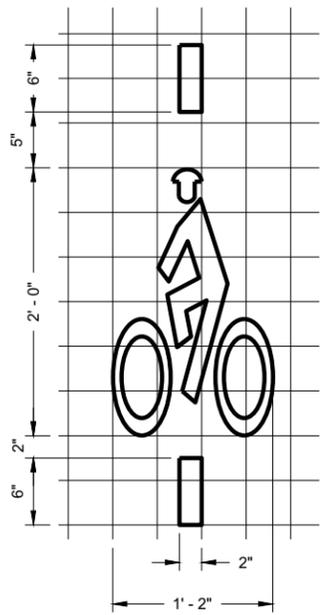
BIKE LANE WORDS

GENERAL NOTES

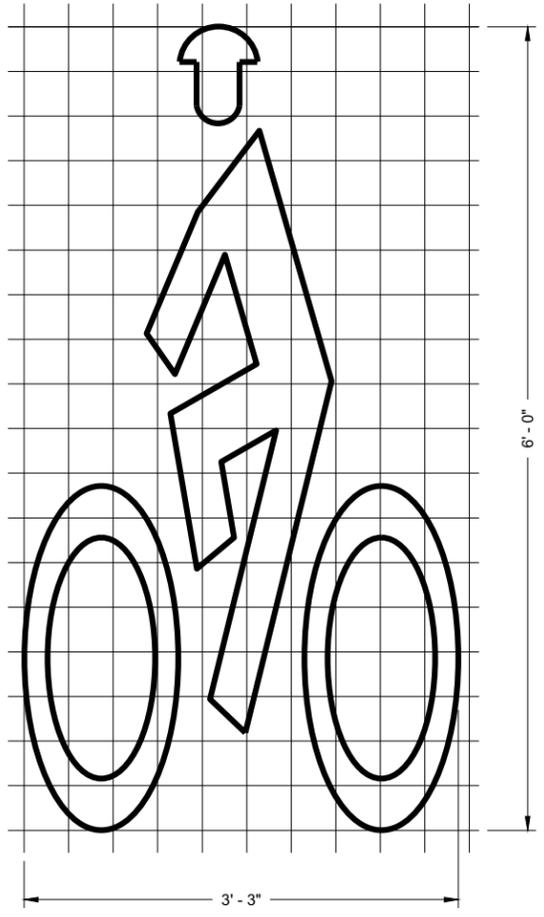
DETAILS OF INSTALLATION, MATERIALS AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS AND APPLICABLE SPECIAL PROVISIONS.



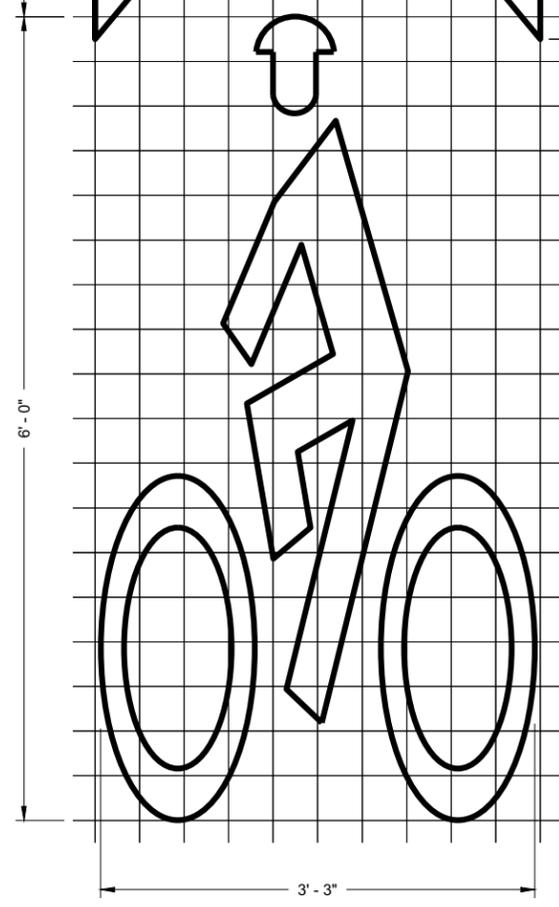
BIKE LANE ARROW



BIKE DETECTOR PAVEMENT MARKING



BIKE LANE SYMBOL

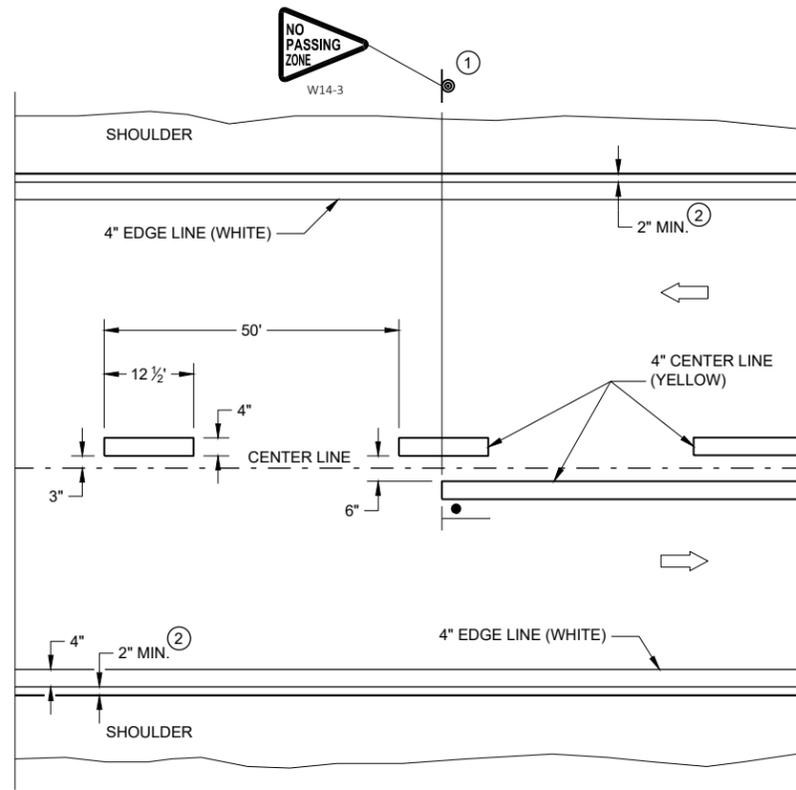


BIKE LANE SYMBOL FOR SHARED LANE

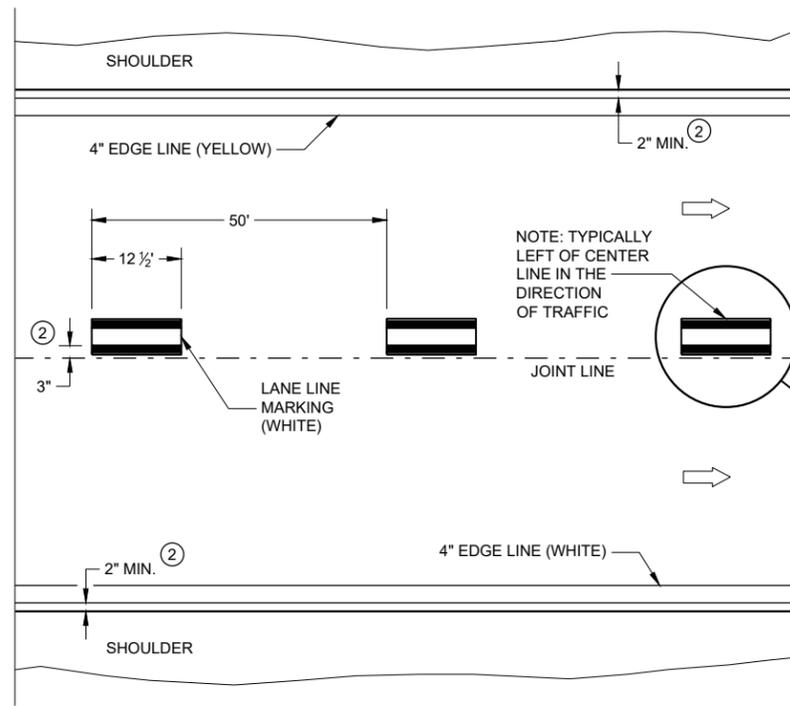
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PAVEMENT MARKING FOR BIKE LANES	
STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION	
APPROVED November 2019 DATE	/s/ Matthew Rauch STATE SIGNING AND MARKING ENGINEER
FHWA	

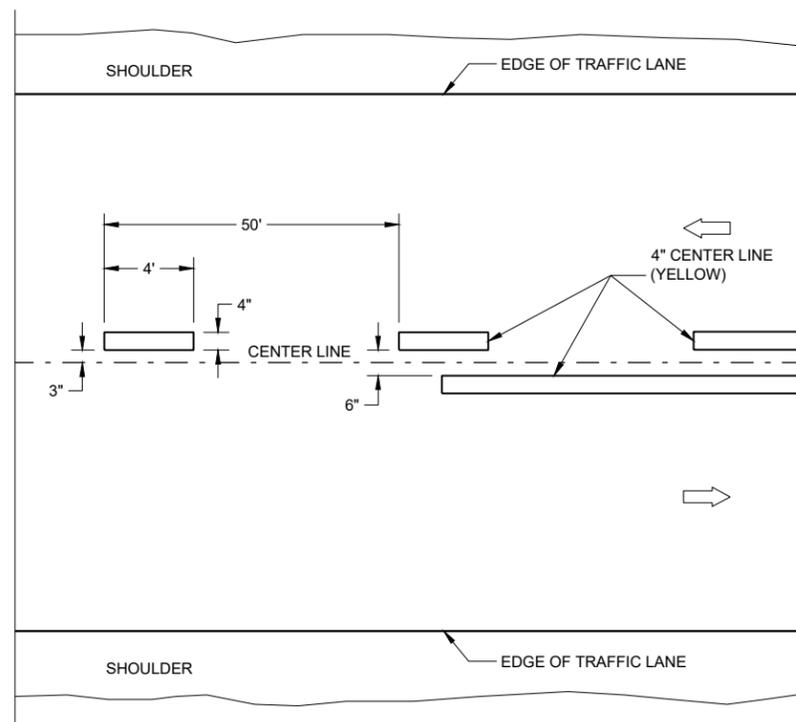


TWO WAY TRAFFIC

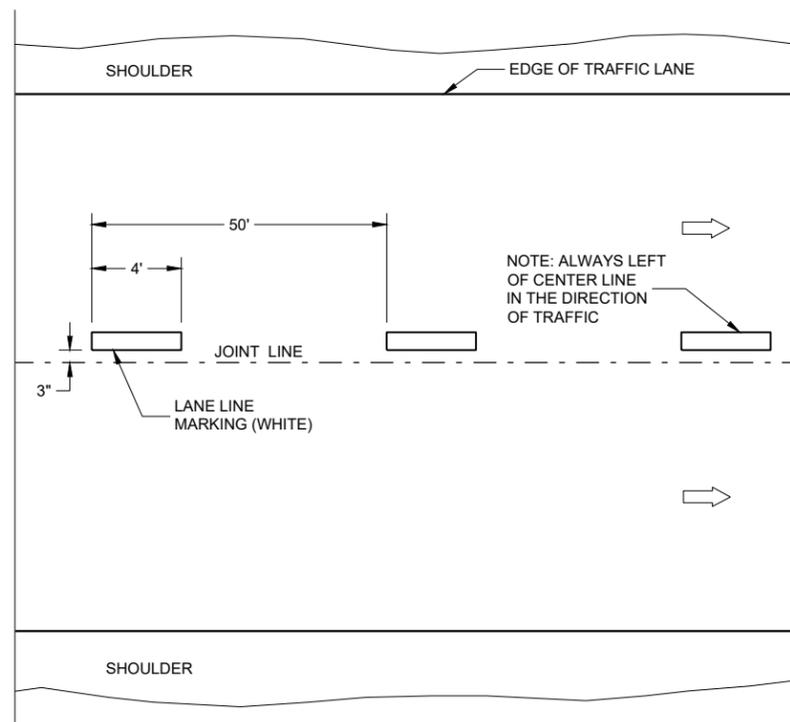


ONE WAY TRAFFIC

PERMANENT PAVEMENT MARKING



TWO WAY TRAFFIC



ONE WAY TRAFFIC

TEMPORARY PAVEMENT MARKING

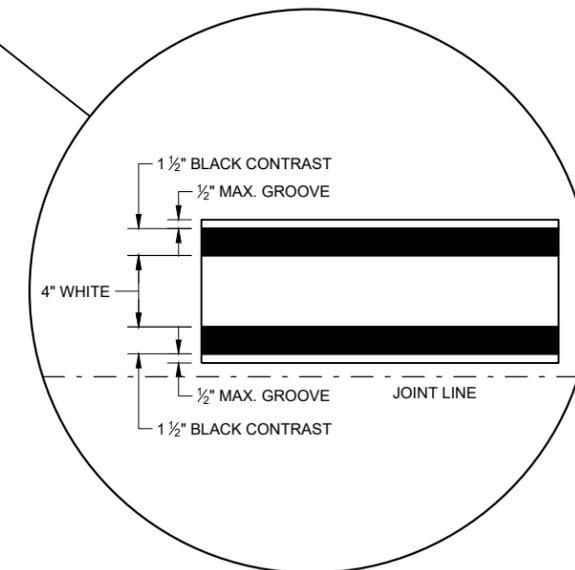
GENERAL NOTES

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

- ① LOCATE THE NO PASSING ZONE W14-3 SIGN WITHIN 50 FEET OF THE "T" MARKING
- ② MEASURE FROM EDGE OF MARKING TO JOINT LINE. THIS DOES NOT INCLUDE SPACE NEEDED FOR GROOVING OPERATIONS.

LEGEND

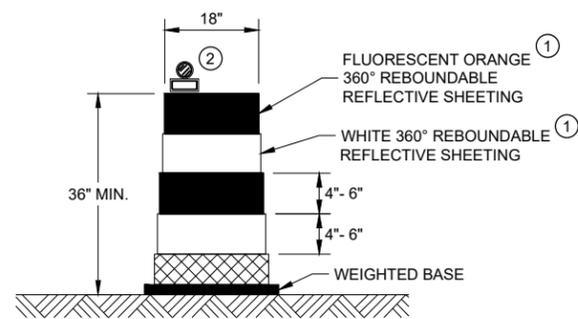
- "T" MARKING
- SIGN ON PERMANENT SUPPORT
- DIRECTION OF TRAFFIC



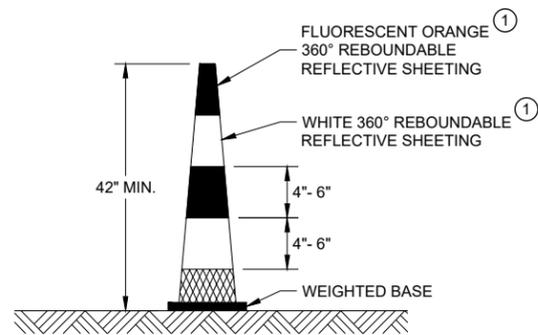
LONGITUDINAL MARKING (MAINLINE)

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
February 2020 /S/ Matthew Rauch
DATE STATEWIDE SIGNING AND MARKING
ENGINEER
FHWA



DRUM

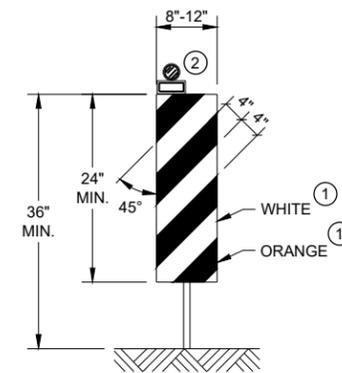


42" CONE

DO NOT USE IN TAPERS
1/2 SPACING OF DRUMS

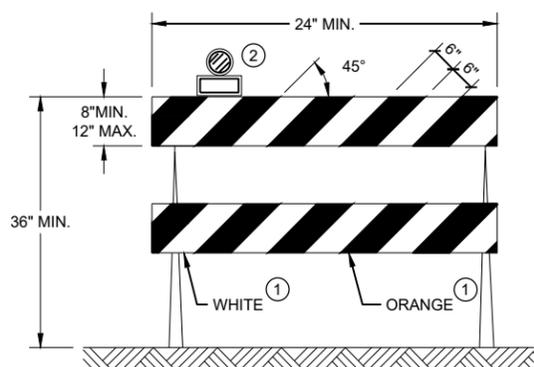
GENERAL NOTES

- ① REFLECTIVE SHEETING SHALL FOLLOW THE REQUIREMENTS IN THE APPROVED PRODUCTS LISTING FOR SIGN SHEETING.
- ② LOCATION OF WARNING LIGHTS WHEN SHOWN ON THE PLAN.



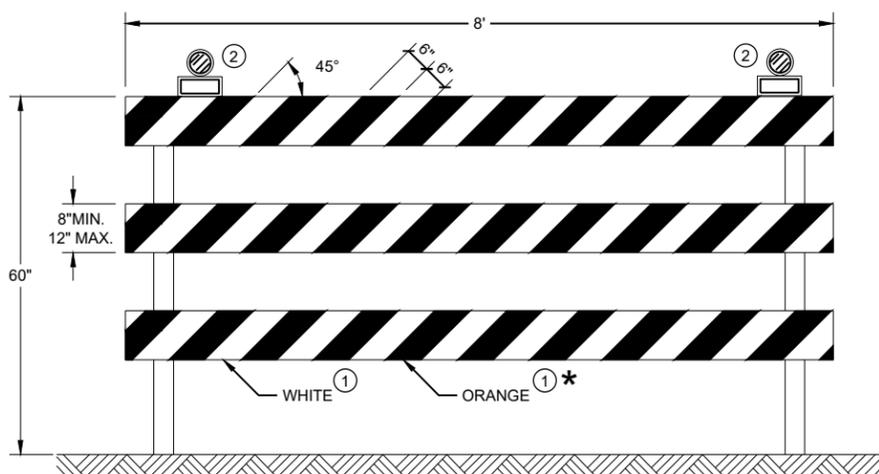
VERTICAL PANEL

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



TYPE II BARRICADE

FOR RAILS LESS THAN 36" LONG, 4" WIDE STRIPES MAY BE USED. ALL STRIPES SHALL SLOPE DOWNWARD TO THE TRAFFIC SIDE FOR CHANNELIZATION.



TYPE III BARRICADE

IF SIGN MOUNTED, DO NOT COVER MORE THAN 50% OF THE TOP TWO RAILS OR 33% OF THE TOTAL AREA OF THE THREE RAILS.

* IF USED FOR A PERMANENT APPLICATION USE RED SHEETING.

**CHANNELIZING DEVICES
DRUMS, CONES, BARRICADES
AND VERTICAL PANELS**

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
May 2021 /S/ Andrew Heidtke
DATE WORK ZONE ENGINEER

LEGEND

-  SIGN ON PORTABLE OR PERMANENT SUPPORT
-  TEMPORARY PORTABLE RUMBLE STRIP ARRAY
-  DIRECTION OF TRAFFIC
-  WORK AREA
-  FLAGGER, EQUIPPED WITH STOP/SLOW PADDLE FASTENED ON SUPPORT STAFF

GENERAL NOTES

DETAILS OF TRAFFIC CONTROL DEVICES AND INSTALLATION NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS, THE SPECIAL PROVISIONS, AND THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES.

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

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

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

THE FIRST ADVANCE WARNING SIGN SHOULD TYPICALLY BE LOCATED IN ADVANCE OF THE ANTICIPATED TRAFFIC BACKUP OR QUEUE.

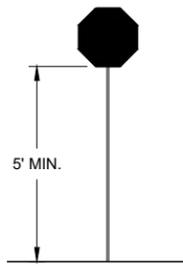
WHEN A SIDE ROAD OR RAMP INTERSECTS THE FACILITY ON WHICH THE WORK IS BEING PERFORMED, ADDITIONAL TRAFFIC CONTROLS SHALL BE PROVIDED AS SPECIFIED IN THE PLANS AND/OR THE SPECIAL PROVISIONS OR AS APPROVED BY THE ENGINEER.

FLAGGING

- FLAGGERS SHALL BE IN SIGHT OF EACH OTHER OR IN DIRECT COMMUNICATION AT ALL TIMES. THEY SHALL BE EQUIPPED WITH STOP/SLOW PADDLES FASTENED ON SUPPORT STAFFS. WHEN THE FLAGGING OPERATION IS NOT IN EFFECT REMOVE TEMPORARY PORTABLE RUMBLE STRIPS PRIOR TO COVERING OR REMOVING ALL ADVANCE SIGNING.
- ① FOR MOVING WORK OPERATIONS, POST ADDITIONAL W20-7A FLAGGER SIGNS AT APPROXIMATELY 3,500' INTERVALS IN THE MOVING WORK OPERATION OR AS APPROVED BY THE ENGINEER.
 - ② SIGN NOT REQUIRED IF FLAGGING OPERATION OCCURS WITHIN A SIGNED ROAD WORK ZONE AREA.
- WHEN THE DISTANCE BETWEEN FLAGGERS EXCEEDS 2 MILES, A PILOT CAR IS REQUIRED. WHEN CURVES REDUCE SIGHT DISTANCE BELOW 400', A PILOT CAR IS REQUIRED.

TEMPORARY PORTABLE RUMBLE STRIPS

- UTILIZE TEMPORARY PORTABLE RUMBLE STRIPS ON ALL FLAGGING OPERATIONS.
- ③ EACH TEMPORARY PORTABLE RUMBLE STRIP ARRAY CONSISTS OF THREE RUMBLE STRIPS SPACED ACCORDING TO MANUFACTURER'S RECOMMENDATION, PLACED TRANSVERSE ACROSS THE LANE AT LOCATIONS SHOWN.
- ONLY USE TEMPORARY PORTABLE RUMBLE STRIPS FOR THE APPROVED PRODUCTS LIST.
- INSTALL TEMPORARY RUMBLE STRIPS PER MANUFACTURER'S RECOMMENDATIONS.
- PLACE ADVANCE SIGNING PRIOR TO INSTALLING TEMPORARY RUMBLE STRIPS.
- DO NOT INSTALL TEMPORARY PORTABLE RUMBLE STRIPS ON GRAVEL, MILLED SURFACES, OR ASPHALT THAT HAS BEEN PAVED LESS THAN 12 HOURS.



STOP/SLOW PADDLE ON SUPPORT STAFF

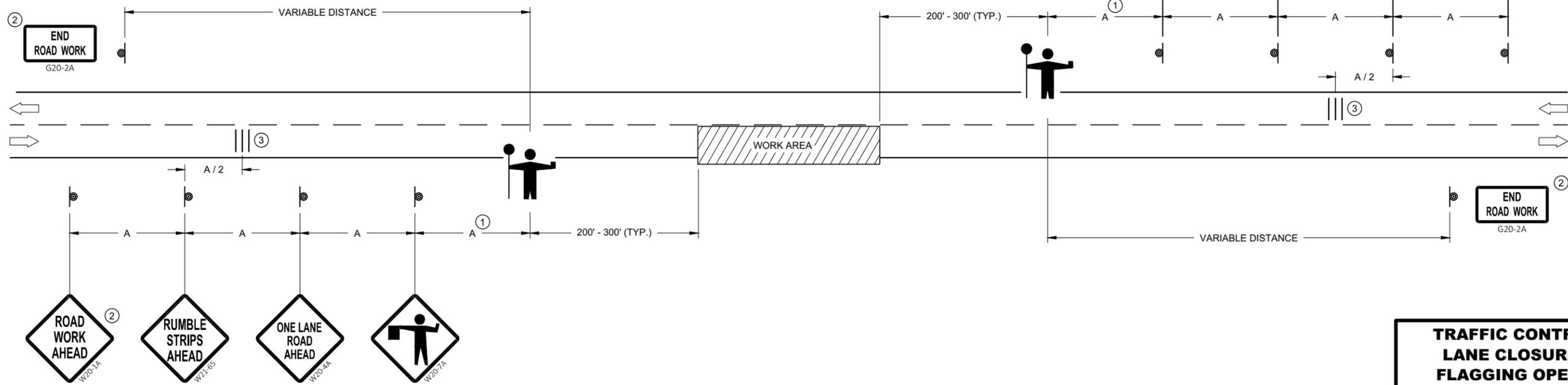
SIGN AND TEMPORARY RUMBLE STRIP ARRAY SPACING TABLE

SPEED LIMIT	SPACING "A"
25-30 MPH	200'
35-40 MPH	350'
45-55 MPH	500'



W03-4

USE OF W03-4 SIGN IS OPTIONAL. WHEN USED, THIS SIGN SHALL BE LOCATED BETWEEN THE W20-7A AND W20-4A SIGNS, USING SPACING "A".



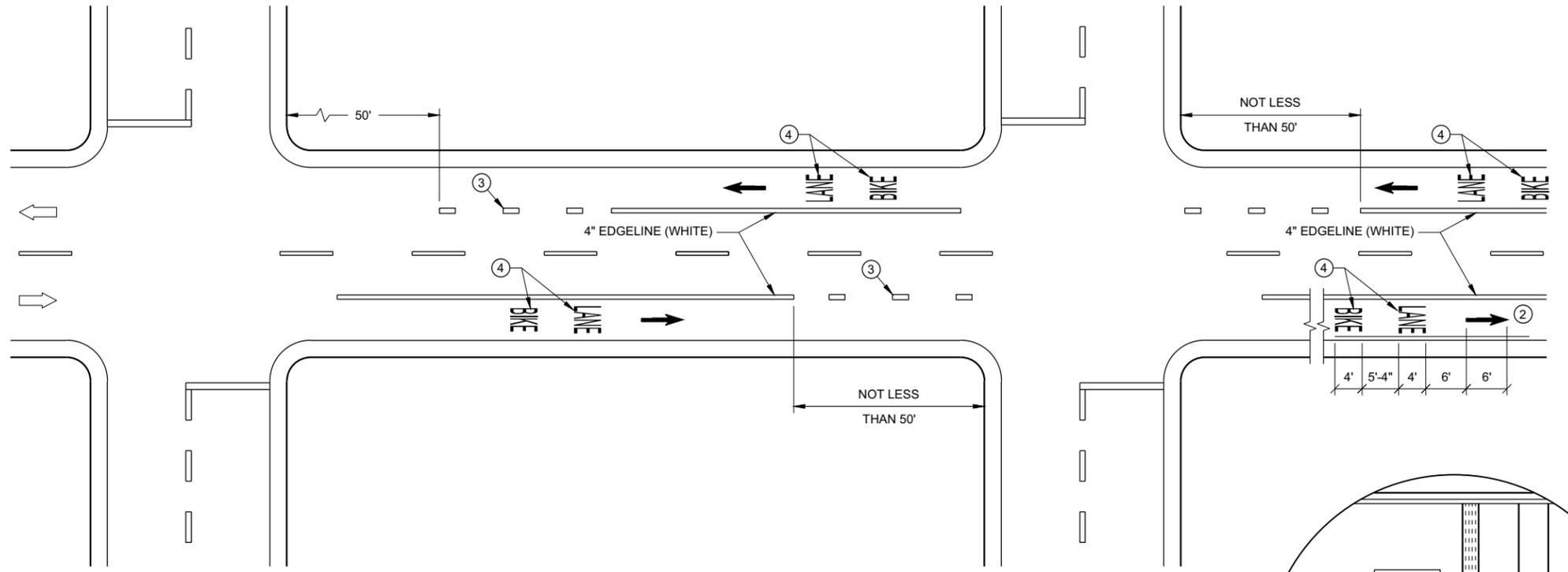
TRAFFIC CONTROL FOR LANE CLOSURE WITH FLAGGING OPERATION

TRAFFIC CONTROL FOR LANE CLOSURE WITH FLAGGING OPERATION

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

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

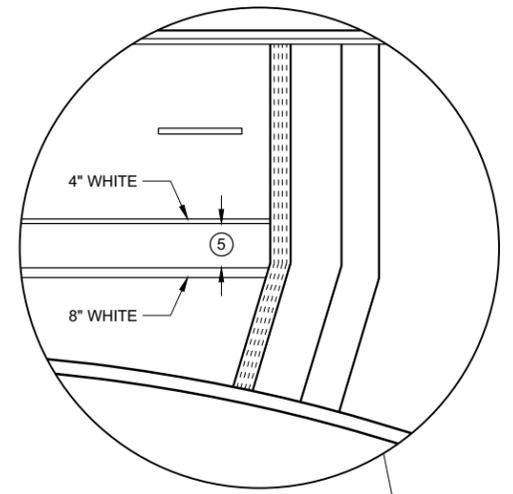
FHWA



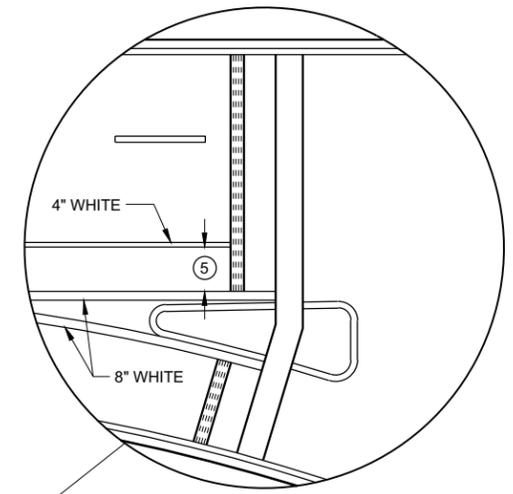
DESIGNATED BIKE LANE - NO PARKING

- GENERAL NOTES**
- ① DETAILS OF CONSTRUCTION NOT SHOWN ON THIS DRAWING SHALL CONFORM TO STANDARD SPECIFICATIONS AND SPECIAL PROVISIONS.
 - ② MINIMUM OF ONE PER BLOCK. MAXIMUM OF 250 FEET.
 - ③ DOTTED LINES (3' LINE, 9' GAP) SHOULD BE USED 50 FEET TO 200 FEET IN ADVANCE OF AN INTERSECTION WHERE THERE IS NO RIGHT TURN ONLY LANE AND THERE IS HEAVY RIGHT TURN TRAFFIC OR THERE IS A NEAR-SIDE BUS STOP. AT OTHER INTERSECTIONS WHERE RIGHT TURN TRAFFIC IS LIGHT TO MODERATE, A SOLID LINE CAN BE USED UP TO THE INTERSECTION.
 - ④ BIKE SYMBOLS OR WORDS MAY BE USED.
 - ⑤ BIKE ACCOMMODATION IS TYPICAL 5 FEET WIDE AND MINIMUM OF 4 FEET FROM A LONGITUDINAL JOINT. USE 5 FEET AT ≥ 45 MPH.
 - ⑥ OMIT THESE MARKINGS FOR WIDER TURN LANE APPLICATIONS (MINIMUM OF 15 FOOT WIDE TURN LANE).
 - ⑦ REFER TO CONTRACT PLANS FOR LANE WIDTH.

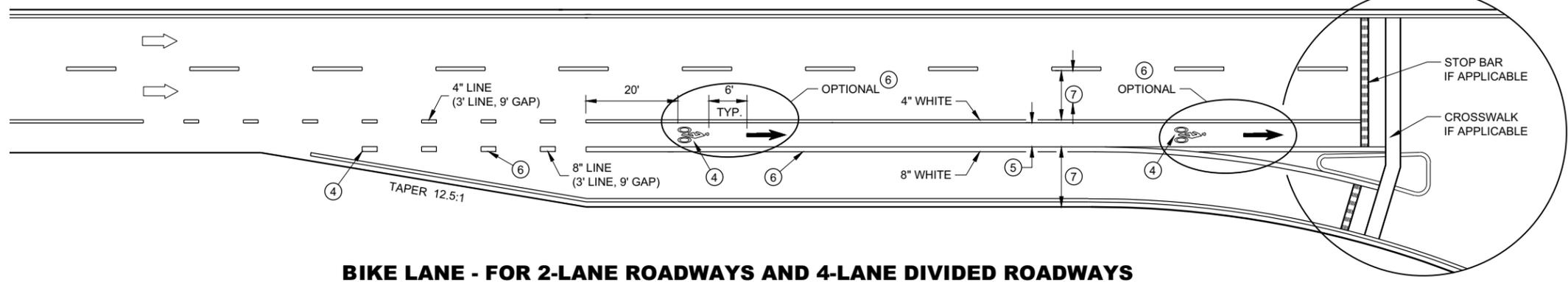
➔ DIRECTION OF TRAVEL



4 LANE DIVIDED WITHOUT ISLAND



4 LANE DIVIDED WITH ISLAND



BIKE LANE - FOR 2-LANE ROADWAYS AND 4-LANE DIVIDED ROADWAYS (4-LANE DIVIDED WITH RIGHT TURN LANE SHOWN)

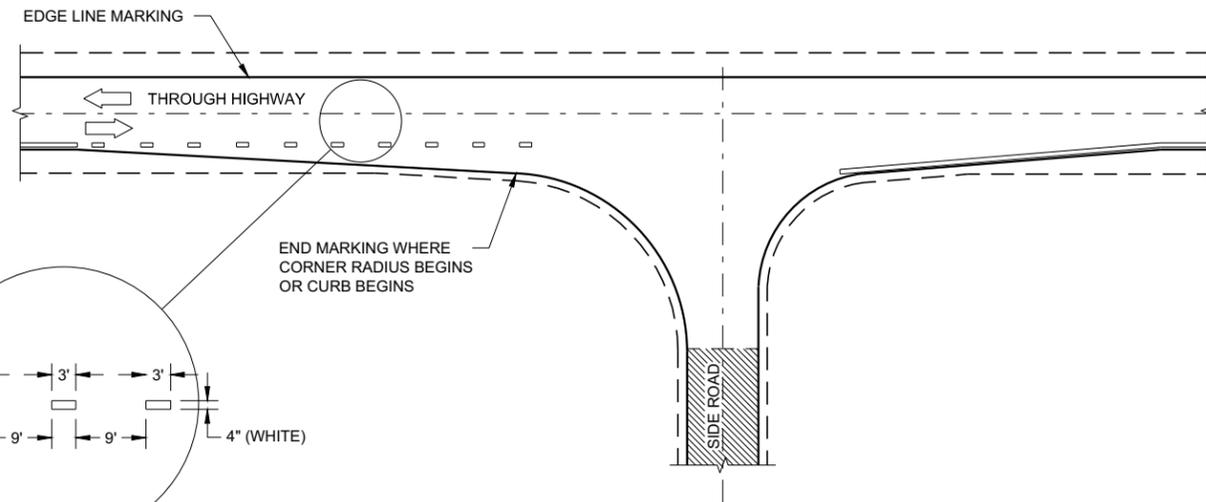
BIKE LANE MARKING	
STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION	
APPROVED May 2020 DATE	/S/ Matthew Rauch STATE SIGNING AND MARKING ENGINEER
FHWA	

6

6

SDD 15C29 - 07a

SDD 15C29 - 07a



MINOR INTERSECTION

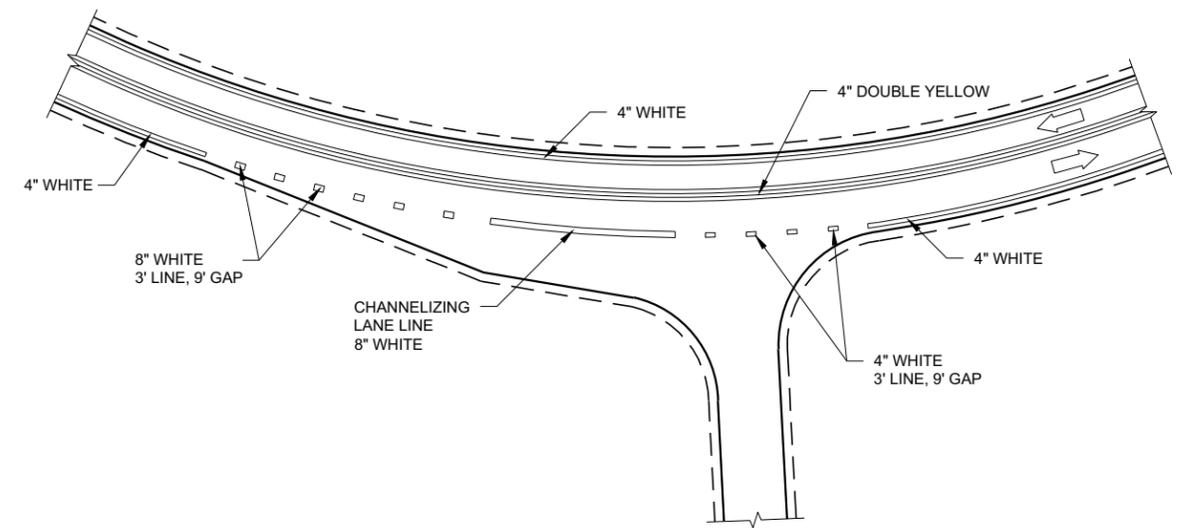
GENERAL NOTES

OMIT EDGE LINES THROUGH INTERSECTIONS. CONTINUE EDGE LINES THROUGH DRIVEWAYS.

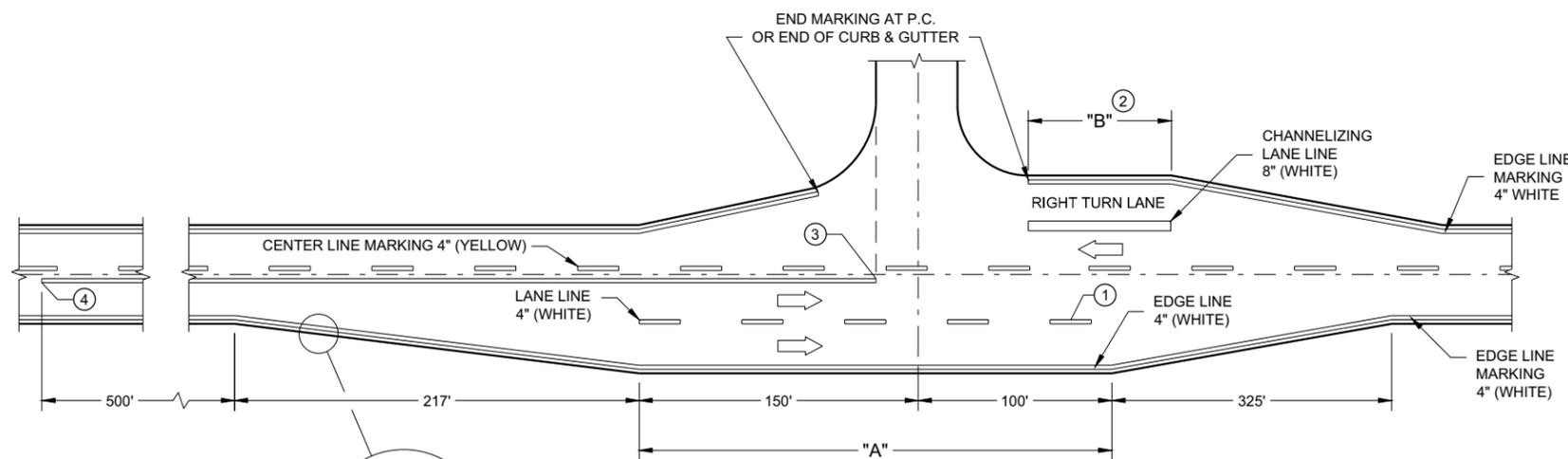
- ① WHEN DISTANCE "A" IS LESS THAN 250 FEET, OMIT LANE LINE.
- ② WHEN DISTANCE "B" IS LESS THAN 100 FEET, OMIT CHANNELIZING LANE LINE.
- ③ BARRIER LINE ENDS AT SIDE ROAD PAVEMENT / SURFACE EDGE EXTENSION.
- ④ BARRIER LINE STARTS 500 FEET PRIOR TO THE BYPASS TAPER.

LEGEND

➡ DIRECTION OF TRAVEL

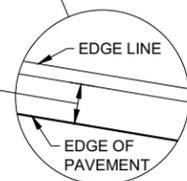


INTERSECTION ON OUTSIDE OF CURVE



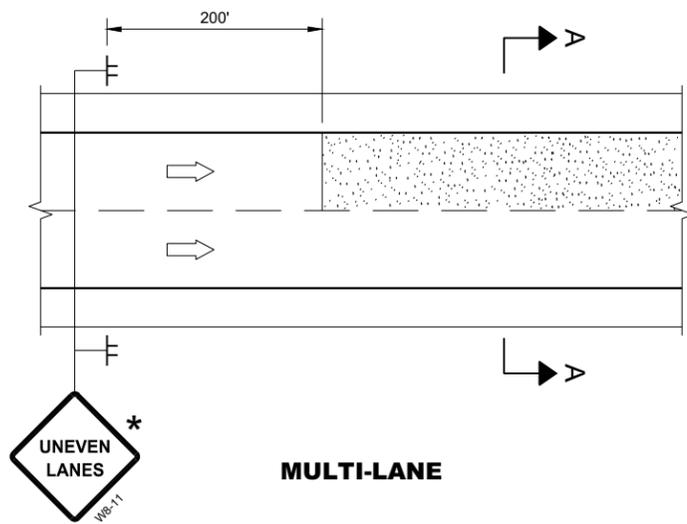
**MAJOR INTERSECTIONS
(INTERSECTION WITH FULL RIGHT TURN LANE OR BYPASS LANE)**

BYPASS LANE PAVED SHOULDER
WIDTH (AS SHOWN ELSEWHERE
IN PLANS) - PLUS 2 INCHES

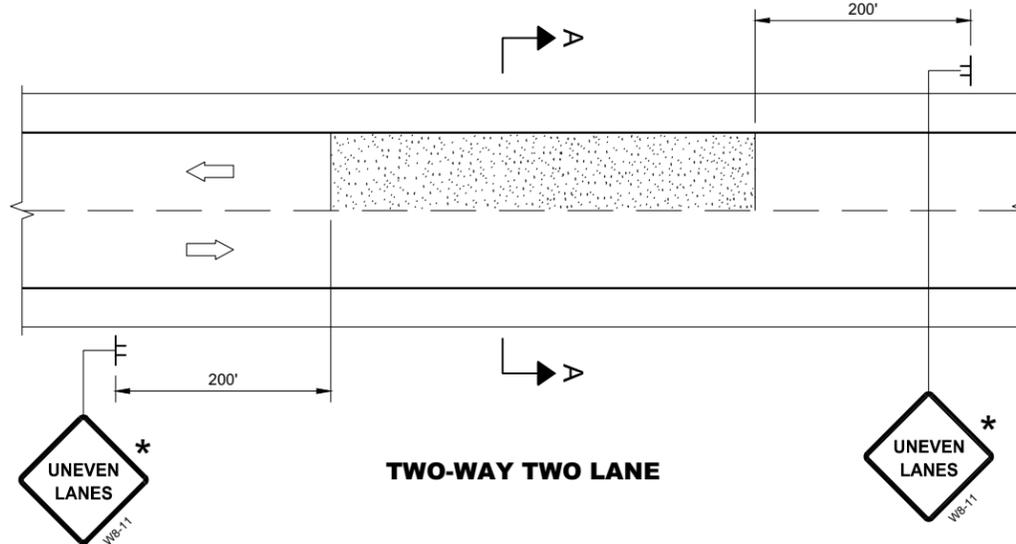


**PAVEMENT MARKING
(INTERSECTIONS)**

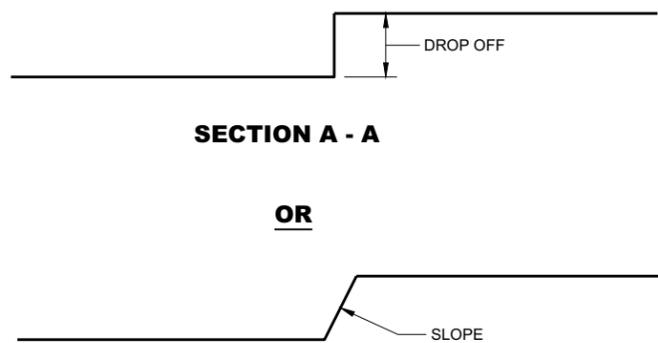
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION



MULTI-LANE



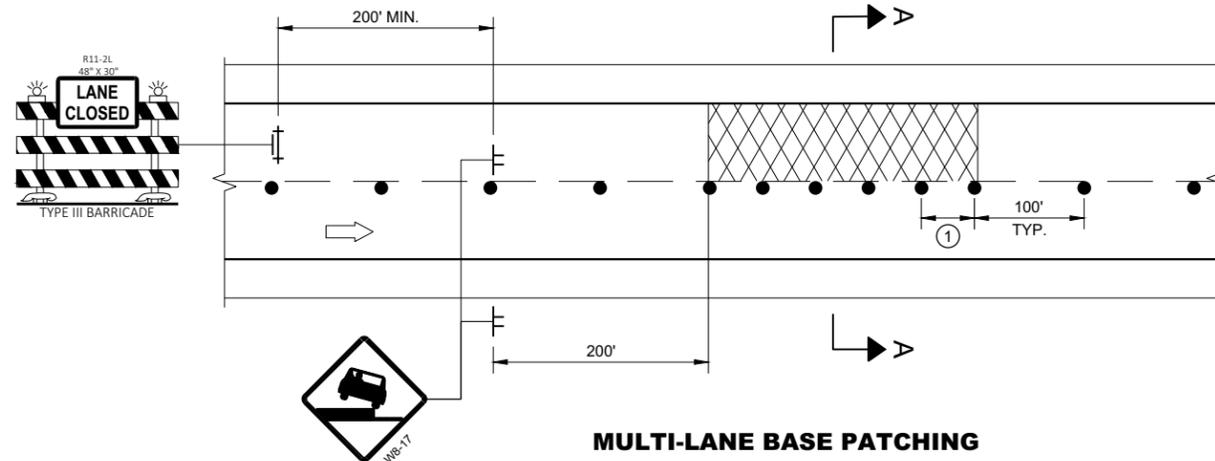
TWO-WAY TWO LANE



SECTION A - A

OR

SECTION A - A



MULTI-LANE BASE PATCHING

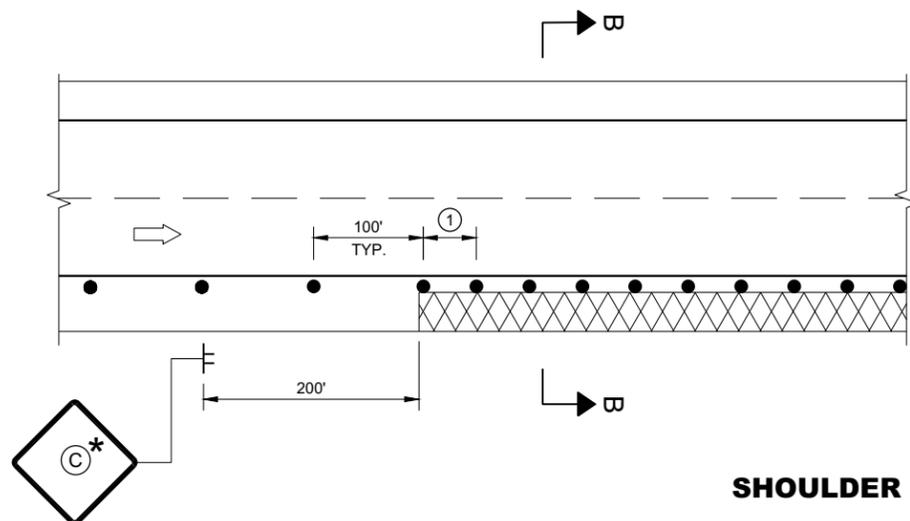
ADJACENT LANE DROP-OFFS

GENERAL NOTES

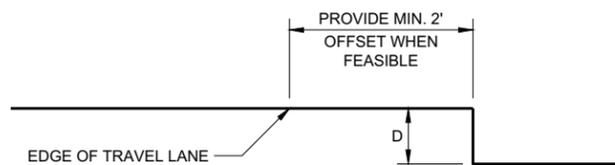
- FOR SPOT LOCATIONS USE ENGINEERING JUDGEMENT WHEN PLACING ADDITIONAL SIGNS.
- ALL SIGNS ARE 48" X 48" UNLESS OTHERWISE NOTED.
- "WO" SIGNS ARE THE SAME AS "W" SIGNS EXCEPT THE BACKGROUND IS ORANGE.
- WARNING LIGHTS ARE NOT REQUIRED IF THE LANE CLOSURE IS A DAYTIME ONLY OPERATION.
- * IF THE DROP-OFF IS CONTINUOUS ALONG THE PROJECT, PLACE ADDITIONAL SIGNS EVERY 1 MILE AND AFTER EVERY ENTRANCE RAMP.
- ① USE CLOSER SPACING WHEN DELINEATING DROP-OFF.

LEGEND

- SIGN ON TEMPORARY SUPPORT
- TRAFFIC CONTROL DRUM
- TYPE III BARRICADE WITH ATTACHED SIGN
- TYPE "A" WARNING LIGHT (FLASHING)
- DIRECTION OF TRAFFIC
- WORK AREA WITH DROP-OFF
- MILLED SURFACE



SHOULDER DROP-OFFS



SECTION B - B

D	SIGN (C)
< 2" WITH A SLOPE STEEPER THAN 3:1	LOW SHOULDER WO8-9
2" < 6" WITH A SLOPE STEEPER THAN 3:1	SHOULDER DROP - OFF W8-9A PROVIDE A 3:1 OR FLATTER SLOPE OF MATERIAL ADJACENT TO THE PAVEMENT

**TRAFFIC CONTROL,
DROP-OFF SIGNING**

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
March 2018 /S/ Andrew Heidtke
DATE DATE WORK ZONE ENGINEER

FHWA

GENERAL NOTES

DRAWING NOT TO SCALE. ALL SIGNS AND POSTS ON THIS SHEET SHALL BE PAID FOR WITH 'TRAFFIC CONTROL SIGNS' BID ITEM. ALL SIDE ROADS WHICH ARE UNDER CONSTRUCTION OF CURB AND GUTTER AND/OR GRADING SHALL BE ADEQUATELY SIGNED.

ALL SIGNS AND DEVICES SHALL BE IN CONFORMANCE WITH THE WISCONSIN MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES (WMUTCD). SIGN LAYOUTS SHALL BE IN ACCORDANCE WITH THE WISDOT STANDARD SIGN PLATES.

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

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

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

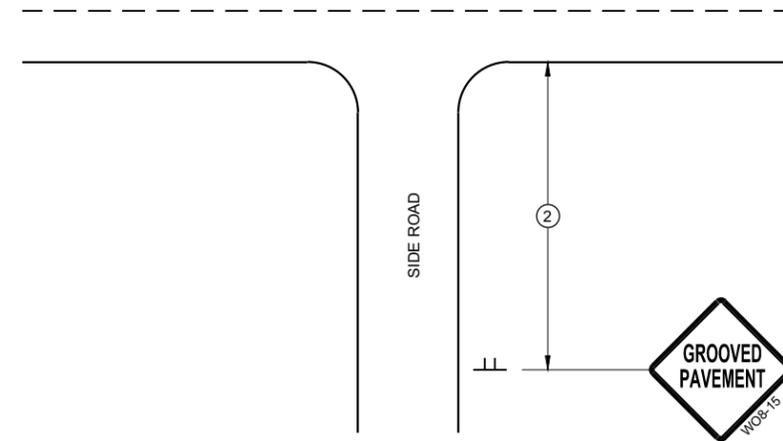
ALL SIGNS INAPPROPRIATE TO THE STATUS OF THE CONTROL ZONE, INCLUDING PRE-EXISTING SIGNS IN THE VICINITY, SHALL BE COVERED OR REMOVED AS DIRECTED BY THE ENGINEER.

SEE 15C34 FOR ADDITIONAL TRAFFIC CONTROL SIGNING WHEN CENTERLINE PAVEMENT MAKINGS ARE MISSING. 'DO NOT PASS' SIGNS MUST BE INSTALLED ON THE SAME DAY AS MILLING OPERATIONS.

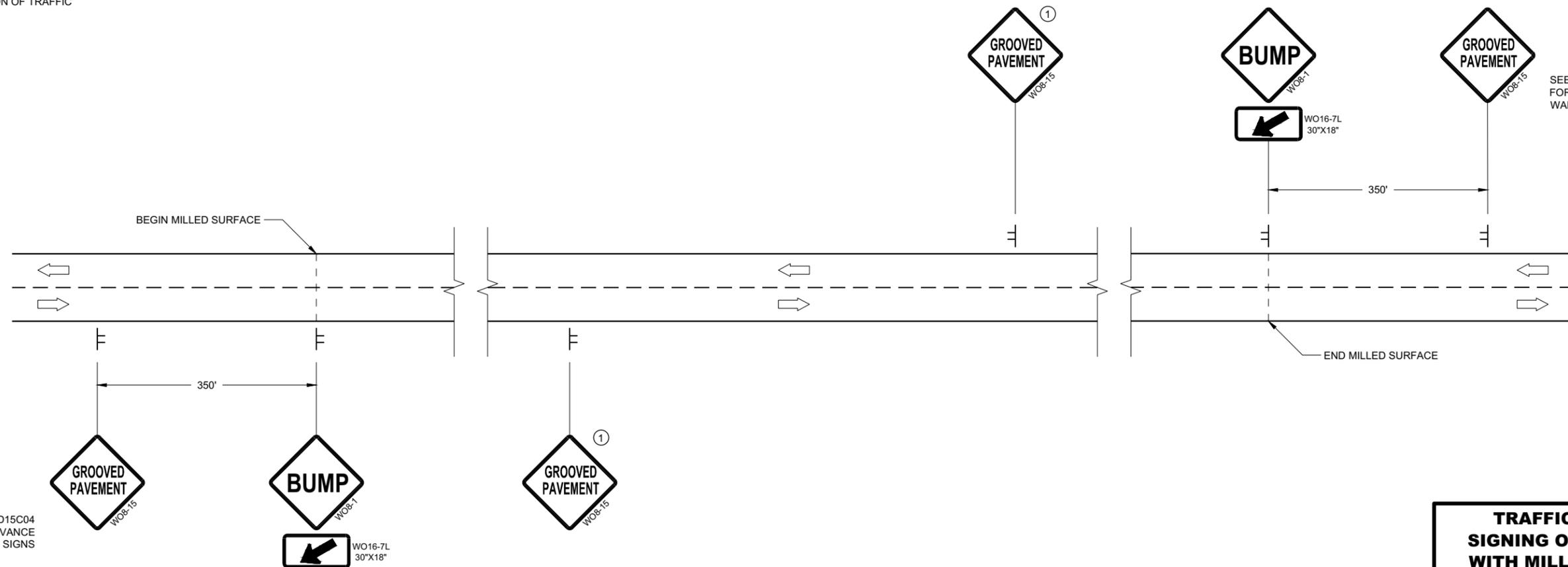
- ① PLACE SIGNS 350' IN ADVANCE OF MILLED SURFACES AND AT 1 MILE INTERVALS, OR AS DIRECTED BY THE ENGINEER.
- ② PLACE SIGN 200' MIN. FROM INTERSECTION AND 200' MIN. AFTER ADVANCE WARNING SIGN SHOWN IN SDD 15C04.

LEGEND

-  SIGN ON TEMPORARY SUPPORT
-  DIRECTION OF TRAFFIC



TYPICAL SIDE ROAD APPROACH SIGN DETAIL



SEE SDD15C04 FOR ADVANCE WARNING SIGNS

SEE SDD15C04 FOR ADVANCE WARNING SIGNS

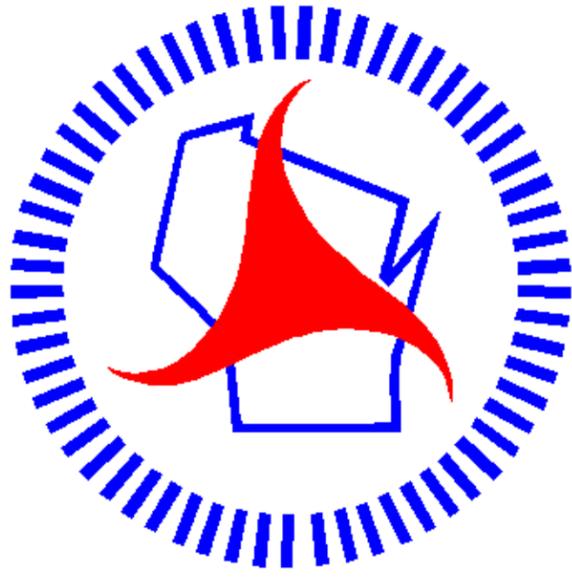
DETAIL FOR SIGNING ON MILLED SURFACES

TRAFFIC CONTROL, SIGNING ON ROADWAYS WITH MILLED SURFACES

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
February 2020 /S/ Andrew Heidtke
DATE WORK ZONE ENGINEER

FHWA



Wisconsin Department of Transportation

Dedicated people creating transportation solutions through innovation and exceptional service.

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