# LAX MAY 2015 PROJECT WITH: ₽ S 0 ယ 0

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Section No. 1 Typical Sections and Details Section No. 2

Estimate of Quantities Section No. 3 Section No. 3 Miscellaneous Quantities Right of Way Plat

Section No. 5 Plan and Profile Section No. 6 Standard Detail Drawings

Section No. 7 Sign Plates Structure Plans

Computer Earthwork Data Section No. 9 Cross Sections

TOTAL SHEETS = 74



### DESIGN DESIGNATION

2014 = 12500 - 22800 A.A.D.T. A.A.D.T. 2034 = 14940 - 25500

D.H.V.

= 6.2%-10.8% DESIGN SPEED = 40 - 55 MPH **ESALS** = 2,000,000

### CONVENTIONAL SYMBOLS

PLAN CORPORATE LIMITS PROPERTY LINE LIMITED HIGHWAY EASEMENT EXISTING RIGHT OF WAY

PROPOSED OR NEW R/W LINE

SLOPE INTERCEPT REFERENCE LINE EXISTING CULVERT PROPOSED CULVERT (Box or Pipe) COMBUSTIBLE FLUIDS

MARSH AREA

WOODED OR SHRUB AREA

SPECIAL DITCH GRADE ELEVATION

1//////

CULVERT (Profile View) UTILITIES ELECTRIC

FIBER OPTIC SANITARY SEWER STORM SEWER UTILITY PEDESTAL POWER POLE TELEPHONE POLE

PROFILE

GRADE LINE

ORIGINAL GROUND

MARSH OR ROCK PROFILE (To be noted as such)

# STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION

PLAN OF PROPOSED IMPROVEMENT

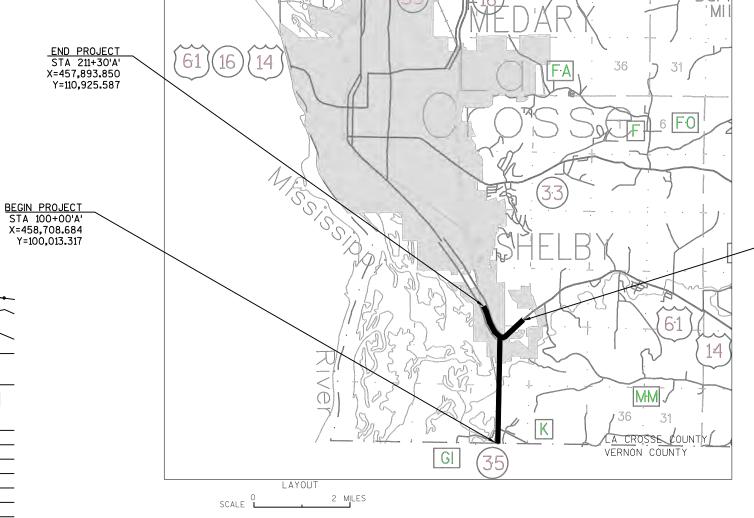
# GENOA - LA CROSSE

LA CROSSE COUNTY LINE TO GARNER PL

**STH 35** 

LA CROSSE COUNTY

STATE PROJECT NUMBER 5163-07-60



HORIZONTAL POSITIONS SHOWN ON THIS PLAN ARE WISCONSIN COUNTY COORDINATES, LA CROSSE COUNTY, NADB3 (2007), IN U.S. SURVEY FEET. VALUES ARE GRID COORDINATES, GRID BEARINGS, AND GRID DISTANCES. GRID DISTANCES MAY BE USED AS GROUND DISTANCES.

FEDERAL STATE PROJECT PROJECT CONTRACT 5163-07-60

> END PROJECT STA 78+16'B' X=460,751.708 Y=111,289.562

### STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION

PREPARED BY Surveyor

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₫ Ø TOTAL NET LENGTH OF CENTERLINE = 2.830 MI.

### 2

### **GENERAL NOTES**

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

- COORDINATE HIS CONSTRUCTION A CTIVITIES WITH A CALL TO DIGGERS HOTLING AND/OR A DIRECT CALL TO THE UTILITIES THAT HAVE FACILITIES IN THE AREA. NOT ALL UTILITIES ARE MEMBERS OF DIGGERS HOTLINE.
- . DETAILS OF CONSTRUCTION NOT SHOWN ON THE PLAN SHALL BE DETERMINED IN THE FIELD BY THE ENGINEER.
- . PAVEMENT REMOVAL WILL BE TO THE NEAREST JOINT OR A SAWED EDGE WILL BE REQUIRED AS DIRECTED BY THE ENGINEER.
- ASPHALTIC WASTE MATERIAL RESULTING FROM THE VARIOUS OPERATIONS UNDER THIS CONTRACT SHALL BE ENTIRELY REMOVED AND DISPOSED OF AT THE TIME OF OCCURRENCE AS DIRECTED BY THE ENGINEER.
- ALL WASTE MATERIAL RESULTING FROM THE VARIOUS CONSTRUCTION OPERATIONS ADJACENT TO PAVEMENT UNDER TRAFFIC SHALL

  \* BE ENTIRELY REMOVED AND PROPERLY DISPOSED OF IMMEDIATELY OR AS DIRECTED BY THE ENGINEER.
- THE CONTRACTOR'S PAVING OPERATIONS SHALL BE CONSISTENT WITH THE PLAN TYPICAL SECTIONS AND CONSTRUCTED TO PREVENT

  HMA LONGITUDINAL JOINTS FROM BEING LOCATED WITHIN A DRIVING, TURNING, BIKE OR PARKING LANE.
- WHEN THE QUANTITIES OF ASPHALTIC CONCRETE PAVEMENT IS MEASURED FOR PAYMENT BY THE TON, THE THICKNESS OF THE
- MATERIAL THAT IS SHOWN ON THE PLANS IS A PPROXIMATE AND THE ACTUAL THICKNESS WILL DEPEND ON THE DISTRIBUTION OF THE MATERIAL AS DIRECTED BY THE ENGINEER.
- HMA PAVEMENT AND ASPHALTIC MATERIAL WEIGHT CALCULATIONS ARE BASED ON 112 LB/SY/IN.
- THE RATE OF APPLICATION FOR TACK COAT IS COMPUTED AT 0.070 GAL/SY.
- ASPHALT MATERIAL FOR PLANT MIXES HAS BEEN ESTIMATED AT 5.5% OF THE HMA PAVEMENT.
- PAVING LIMITS AT INTERSECTIONS ARE TO BE DETERMINED IN THE FIELD BY THE ENGINEER.
- WHEREVER A SPHALTIC CONCRETE PAVEMENT ABUTS OR OVERLAPS ONTO PORTLAND CEMENT CONCRETE, THE EXISTING PAVEMENT

  SHALL RECEIVE A TACK COAT OF RS-1 OR RS-2 EMULSIFIED ASPHALT.
- CONTRACTOR SHALL MAINTAIN ACCESS TO ALL DRIVEWAYS AND SIDEROADS AT ALL TIMES.
- . ADD TYPE III BARRICADES, LIGHTS, CONES, AND DRUMS FOR T.C. AT THE ENGINEER'S REQUEST.
- ALL SAWCUT AND REPAIR LOCATIONS SHALL BE DETERMINED BY THE ENGINEER.
- THE EROSION CONTROL ITEMS SHOWN ON THE PLAN ARE AT THE SUGGESTED LOCATIONS. ENGINEER SHALL CONFIRM ACTUAL LOCATION OF EROSION CONTROL ITEMS. ALL EROSION CONTROL ITEMS SHALL BE MAINTAINED UNTIL SUCH TIME AS THE ENGINEER
- DETERMINES THE MEASURE IS NO LONGER NECESSARY. AT THAT TIME, THE CONTRACTOR SHALL REMOVE THE TEMPORARY EROSION CONTROL ITEM INCIDENTAL TO THE COST OF THE RESPECTIVE BID ITEM.
- . NO EQUIPMENT OR MATERIALS SHALL BE STORED OR IMPACT ANY WETLANDS OR WATERWAYS.
- NO GROUND DISTURBANCE SHALL OCCUR BEYOND THE ROADWAY SHOULDERS EXCEPT FOR LOCATIONS NOTED ON PLAN. EQUIPMENT
  OR MATERIALS SHALL ONLY BE STORED ON A PAVED SURFACE.
- ALL CLOSED LANES MUST BE SWEPT PRIOR TO BEING OPENED TO TRAFFIC.

### STANDARD ABBREVIATIONS

	<u> </u>	ADDITEVIATION	
AC	ACRE	LC.	LONG CHORD
AGG	AGGREGATE	LS	LUMPSUM
<	ANGLE	M.P.	MARKER POST
	APRON ENDWALL	MGAL	1000 GALLONS
	ASPHALTIC	N.C.	NORMAL CROWN
A.D.T.	AVERAGE DAILY TRAFFIC	N	NORTH
A.A.D.T.	ANNUAL AVERAGE DAILY TRAFFIC	NB	NORTHBOUND
B.F.	BACK FACE	NOR	NORMAL
BM	BENCHMA RK	NO.	NUMBER
BTWN	BETWEEN	PAV'T	PAVEMENT
CTR.	CENTER	P.L.E.	PERMANENT LIMITED EASEMENT
C/L	CENTER LINE	P.C.	POINT OF CURVATURE
Δ	CENTRAL ANGLE OR DELTA	P.I.	POINT OF INTERSECTION
C.E.	COMMERCIAL ENTRANCE	P.T.	POINT OF TANGENCY
CONST.	CONSTRUCTION	PCC	PORTLAND CEMENT CONCRETE
CMCP	CORRUGATED METAL CULVERT PIPE	P.E.	PRIVATE ENTRANCE
CMP	CORRUGATED METAL PIPE	PGL	PROFILE GRADE LINE
CO.	COUNTY	P.L.	PROPERTY LINE
CTH	COUNTY TRUNK HIGHWAY	R	RADIUS OR RANGE
CR.	CREEK	R/L	REFERENCE LINE
CABC	CRUSHED AGGREGATE BASE COURSE	R.C.C.P.	
CY	CUBIC YARD	REQ'D	
CP	CONTROL POINT OR CULVERT PIPE	RT	RIGHT
C&G	CURB AND GUTTER	R.H.F.	RIGHT HAND FORWARD
D	DEGREE OF CURVE	R/W	RIGHT OF WAY
D.H.V.	DESIGN HOURLY VOLUME	RD.	ROAD
DIA.	DIAMETER	SHLD.	SHOULDER(S)
D.D.	DIRECTIONAL DISTRIBUTION	SHR.	SHRINKAGE
	DISCHARGE	Silit.	SOUTH
DISCH. DMS	DY NAMIC MESSAGE SIGN	SB	SOUTHBOUND
EA .		S.F.	
	EACH		SQUARE FOOT (FEET)
E	EAST FACTOOLIND	SDD	STANDARD DETAIL DRAWING(S)
EB FL FO	EASTBOUND	STH	STATE TRUNK HIGHWAY
ELEC.	ELECTRIC(AL), ELEC. CABLE	STA.	STATION
-	ELEVATION	S.E.	SUPERELEVATION
ESALS	EQUIVALENT SINGLE AXLE LOADS	S/L	SURVEY LINE
EXC.	EXCAVATION	SYM	SYMMETRICAL
EXIST	EXISTING	T.	PERCENT TRUCKS
F.F.	FACE TO FACE	TEL.	TELEPHONE
FERT.	FERTILIZER	TEMP.	TEMPORARY
F.E.	FIELD ENTRANCE	T.L.E.	TEMPORARY LIMITED EASEMENT
	FLOW LINE	T.O.C.	TOP OF CURB
GALV.	GALVANIZE	TYP	TYPICAL
H.S.	HIGH STRENGTH	UNCL.	UNCLASSIFIED
CWT	HUNDRED WEIGHT	U.G.	UNDERGROUND (CABLE)
INL	INLET	VAR	VARIABLE
INTER.	INTERSECTION	V.C.	VERTICAL CURVE
IH	INTERSTATE HIGHWAY	V.P.C.	VERTICAL POINT OF CURVATURE
JT.	JOINT	V.P.I.	VERTICAL POINT OF INTERSECTION
LT	LEFT	V.P.T.	VERTICAL POINT OF TANGENCY
L.H.F.	LEFT HAND FORWARD	Wt.	WEIGHT
L.	LENGTH OF CURVE	W	WEST

PROJECT NO: 5163-07-60 HWY: STH 35 COUNTY: LA CROSSE GENERAL NOTES SHEET: **E** 

FILE NAME : PLOT DATE : 1/14/2015 11:27 AM PLOT BY : PLOT NAME : PLOT SCALE : N/A

### **DESIGN CONTACTS**

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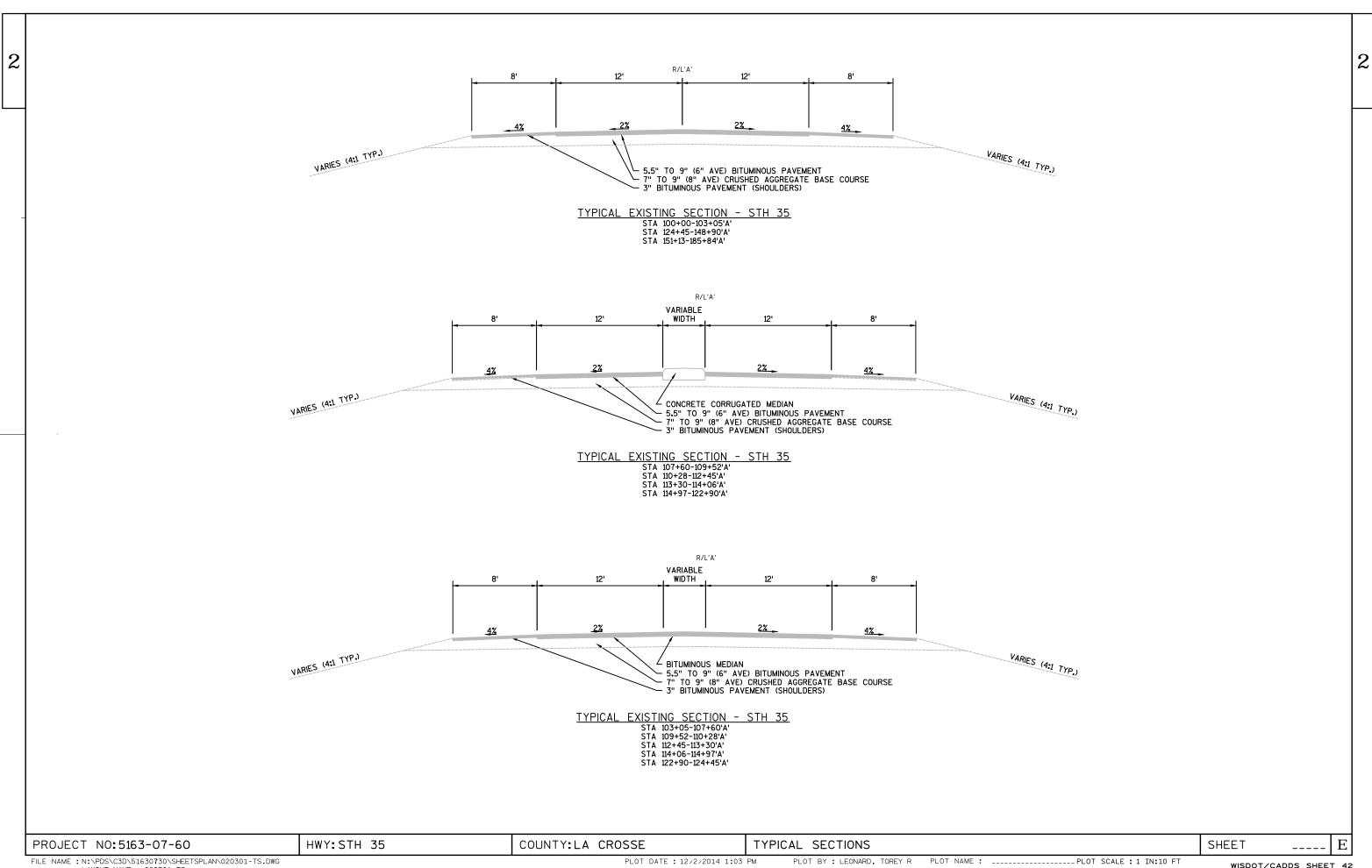
Perry McClellan Charter Communications - Communication Line 1228 12th Ave S, PO Box 279 Onalaska, WI 54650 (715) 370-7140 Perry.mcclellan@charter.com Pamela Taylor
Xcel Energy - Electricity-transmission
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P.O. Box 8
Eau Claire, WI 54702-0008
(715) 839-1306
pamela.l.taylor@xcelenergy.com

Tim Orcutt
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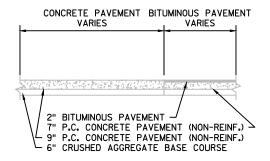
Lenard Leis
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(608) 452-3101
Ileis@mwt.net

PROJECT NO: 5163-07-60 HWY: STH 35 COUNTY: LA CROSSE GENERAL NOTES SHEET: **E** 

FILE NAME : PLOT DATE : 1/14/2015 11:27 AM PLOT BY : PLOT NAME : PLOT SCALE : N/A

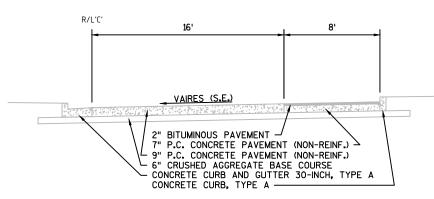




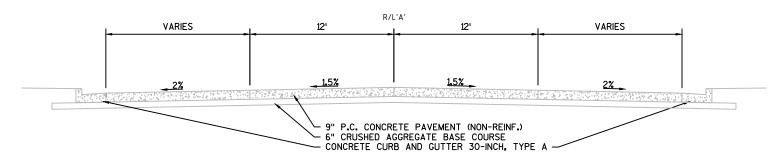


### TYPICAL EXISTING PAVEMENT SECTION - STH 35, USH 14, USH 61

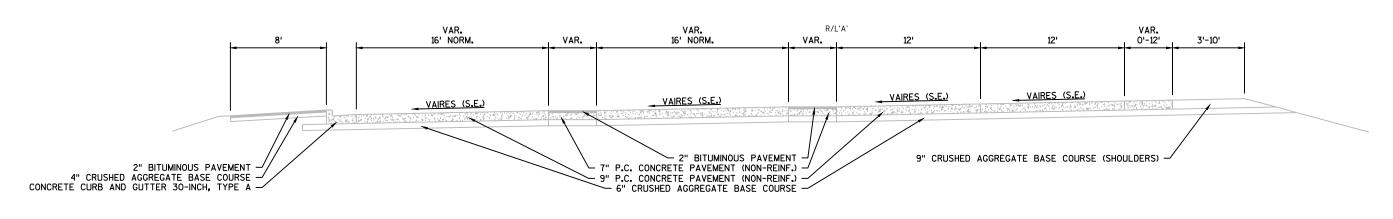
STA 185+84'A'-211+30'A' STA 50+00'B'-78+16'B' STA 6+00'C'-15+98'C'



TYPICAL EXISTING SECTION - USH 14 & 61 WESTBOUND RAMP STA 6+00'C'-15+98'C'



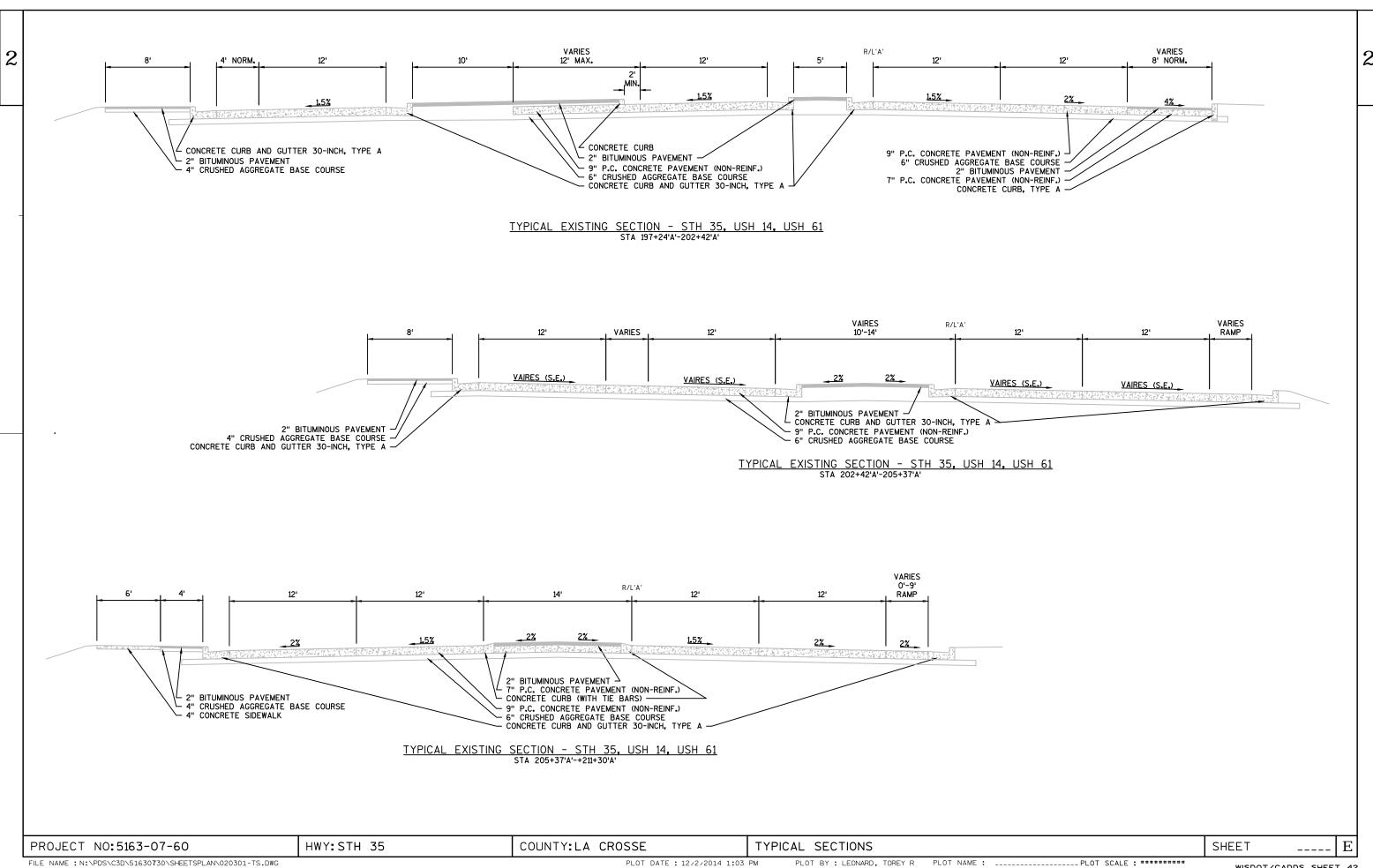
<u>TYPICAL EXISTING SECTION - STH 35</u> STA 185+84'A'-188+88'A'

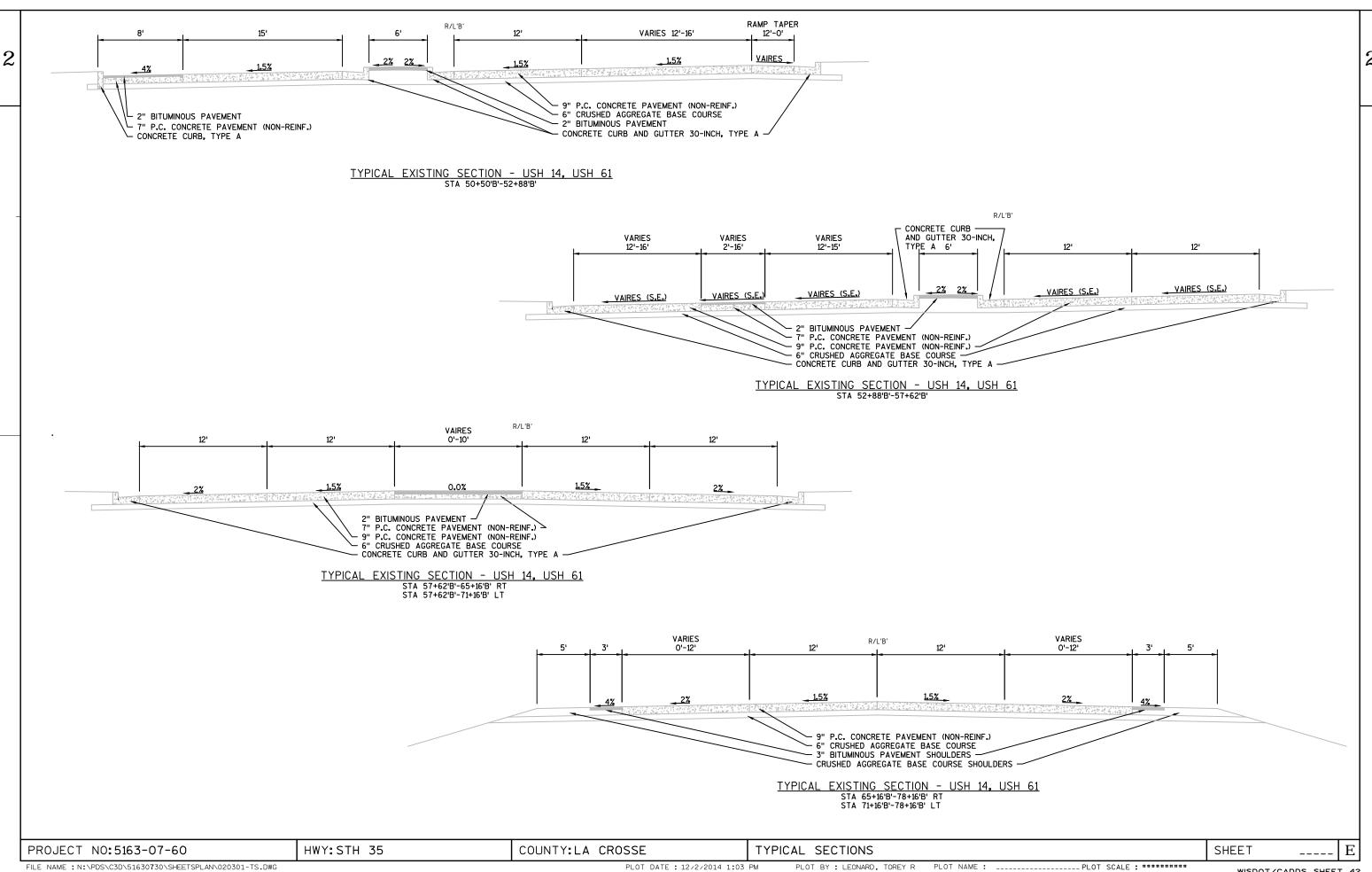


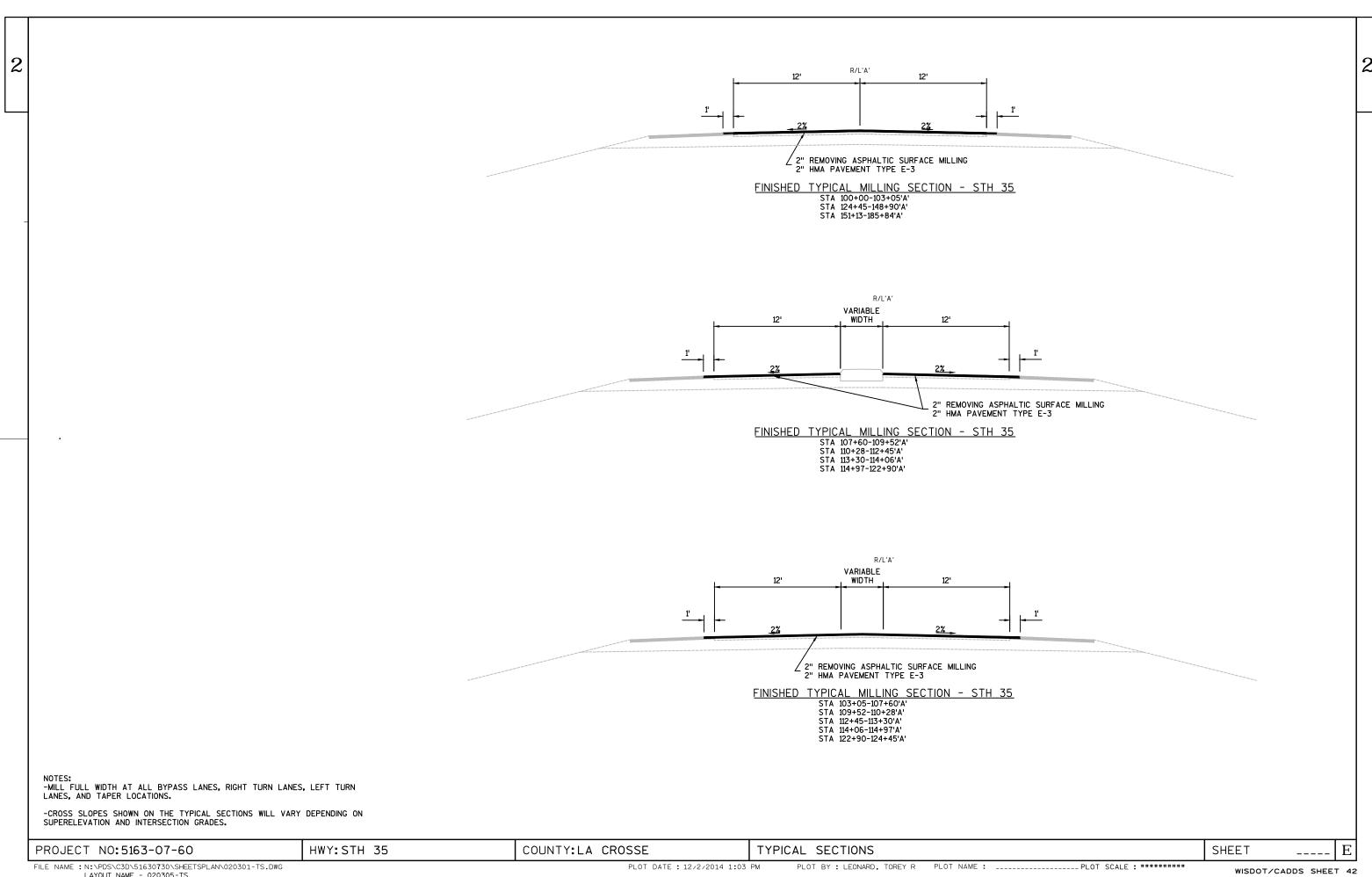
TYPICAL EXISTING SECTION - STH 35
STA 188+88'A'-197+24'A'

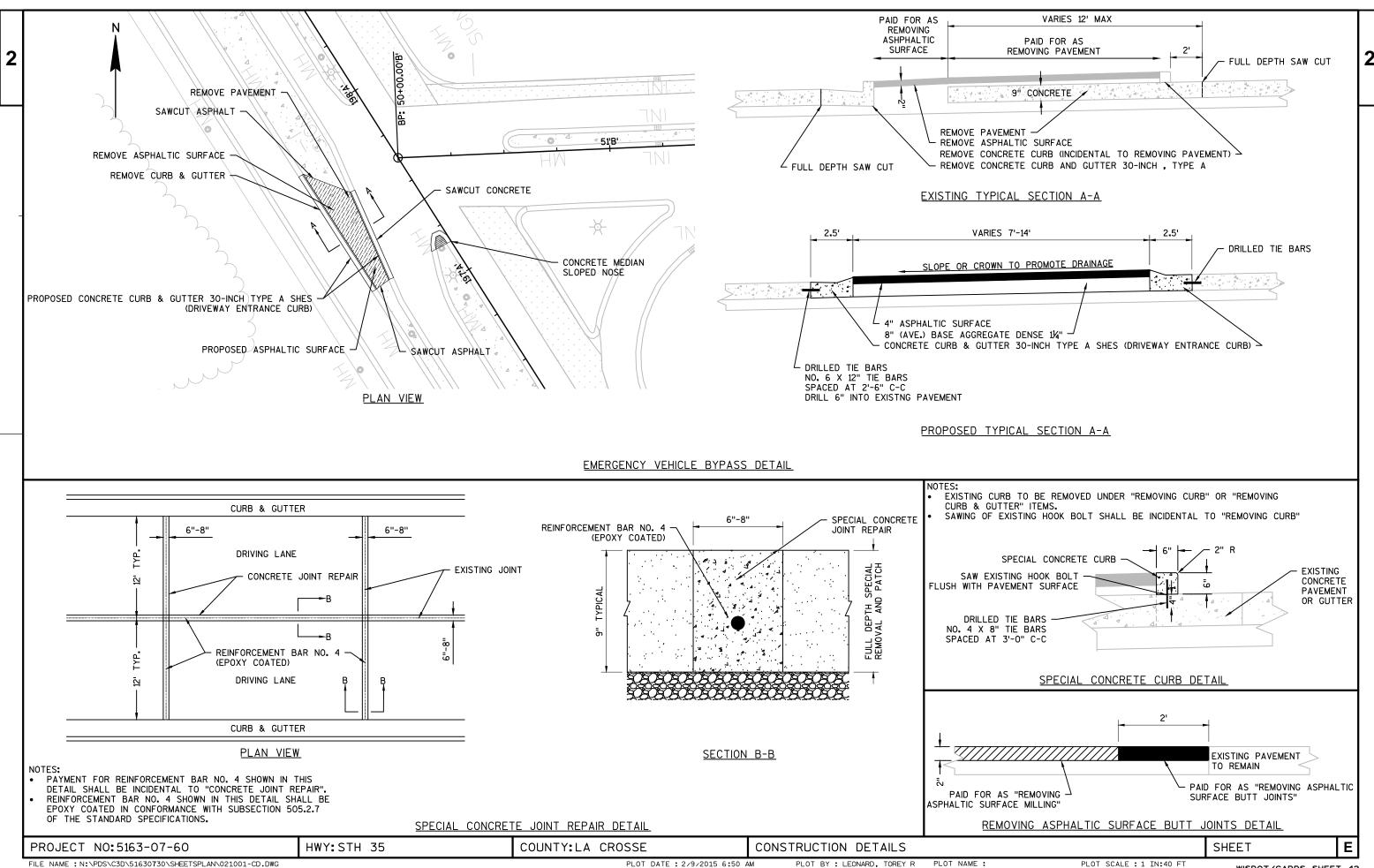
PROJECT NO:5163-07-60 HWY:STH 35 COUNTY:LA CROSSE TYPICAL SECTIONS SHEET \_\_\_\_ E

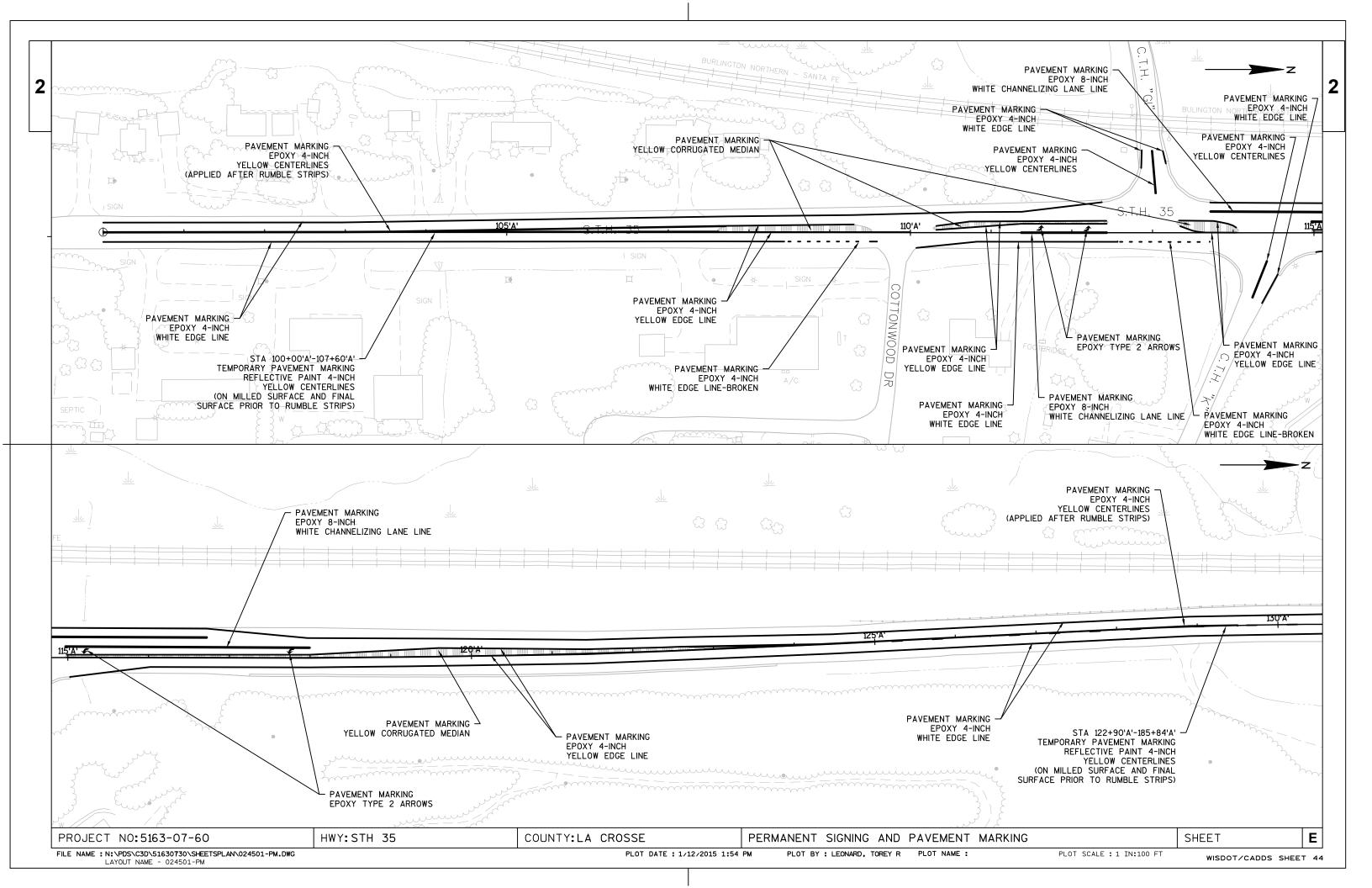
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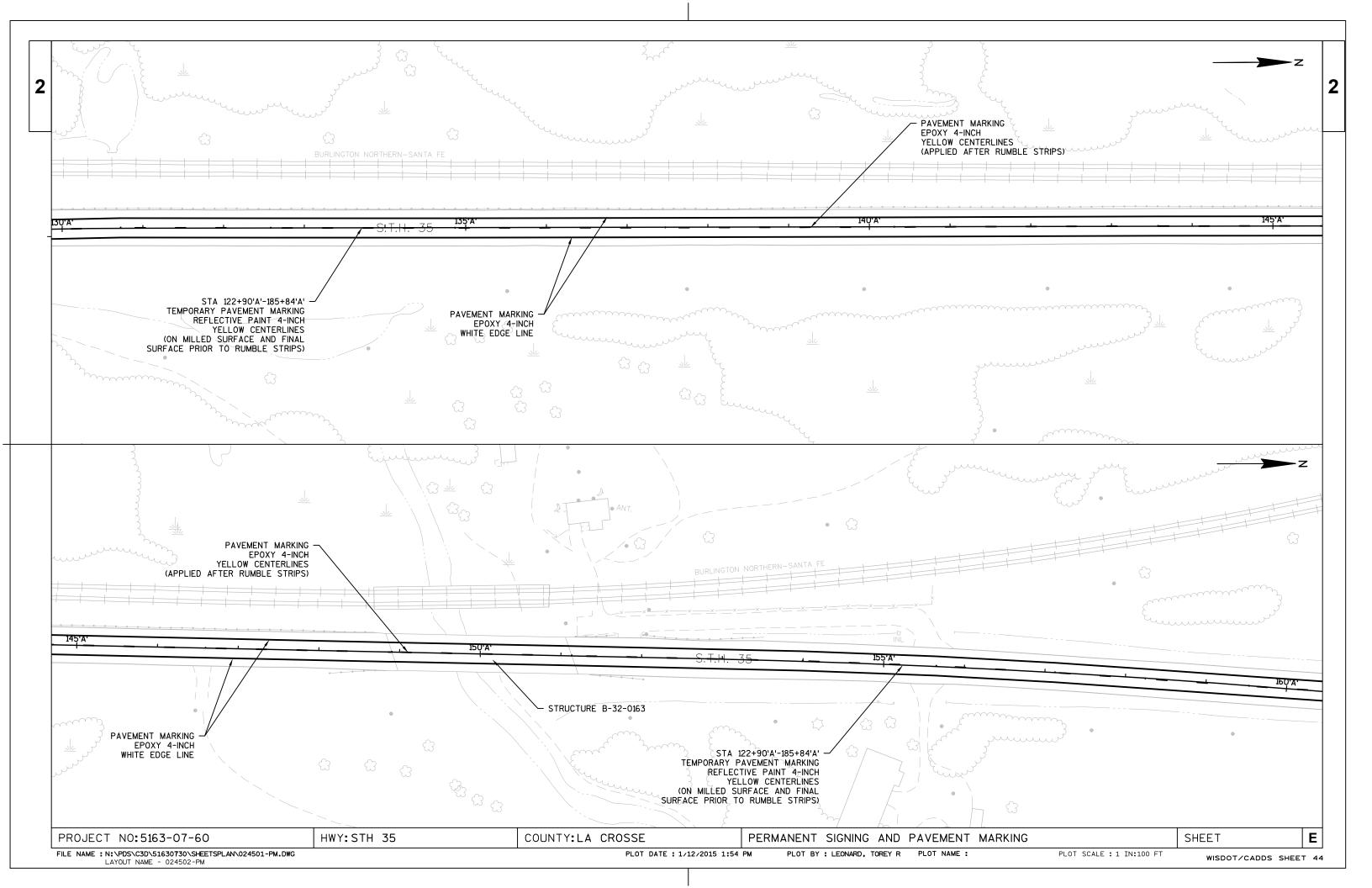


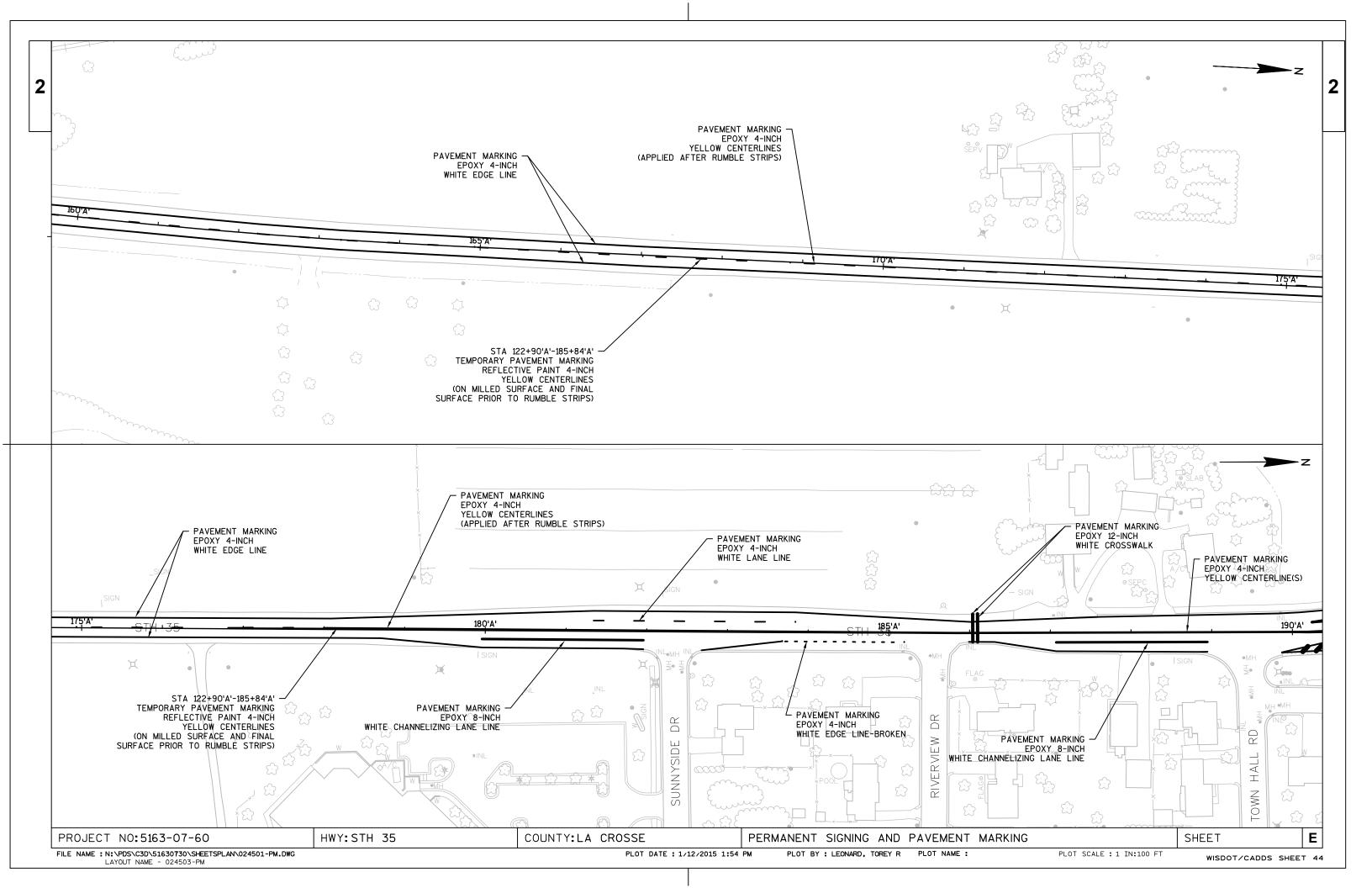


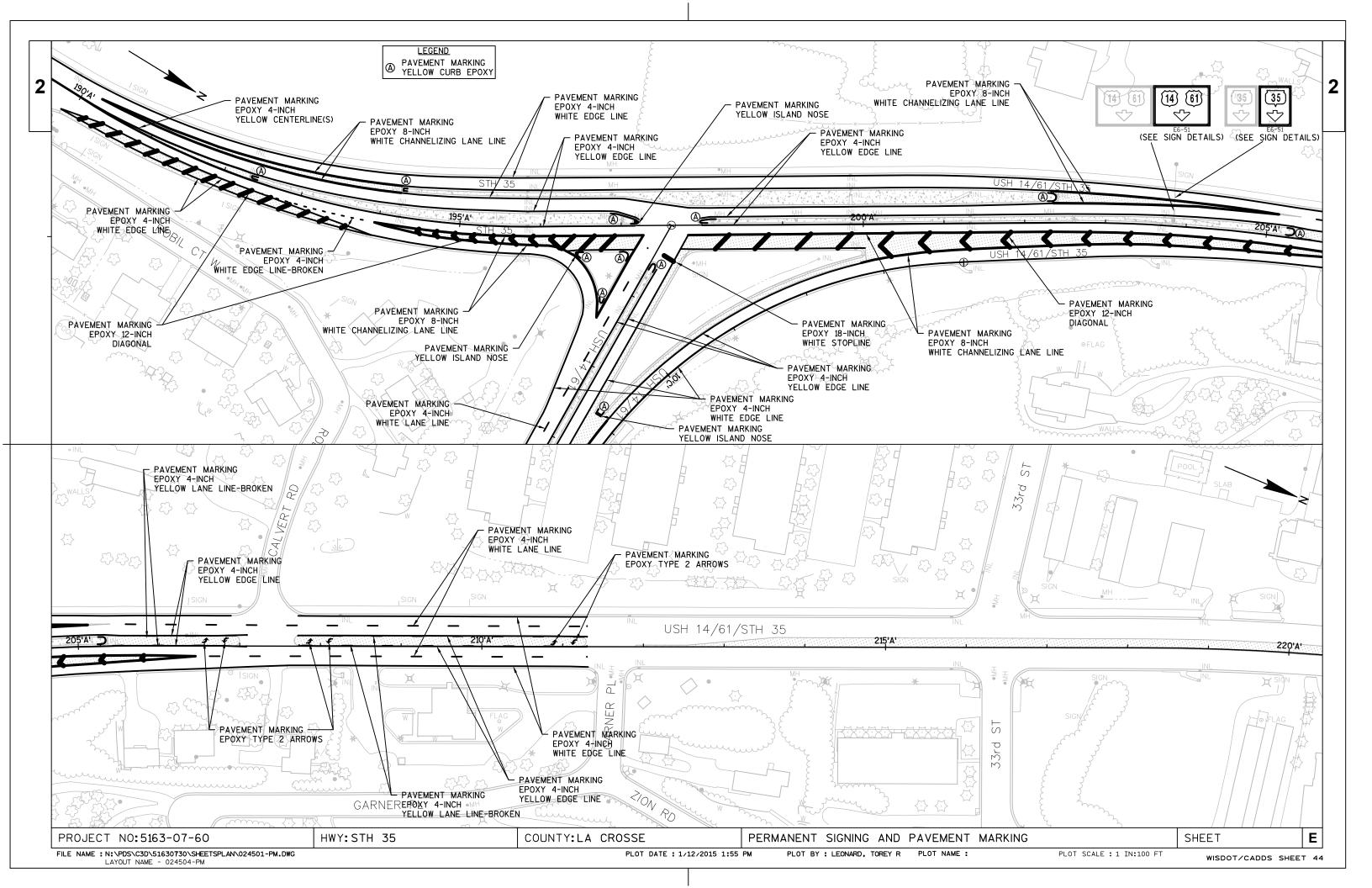


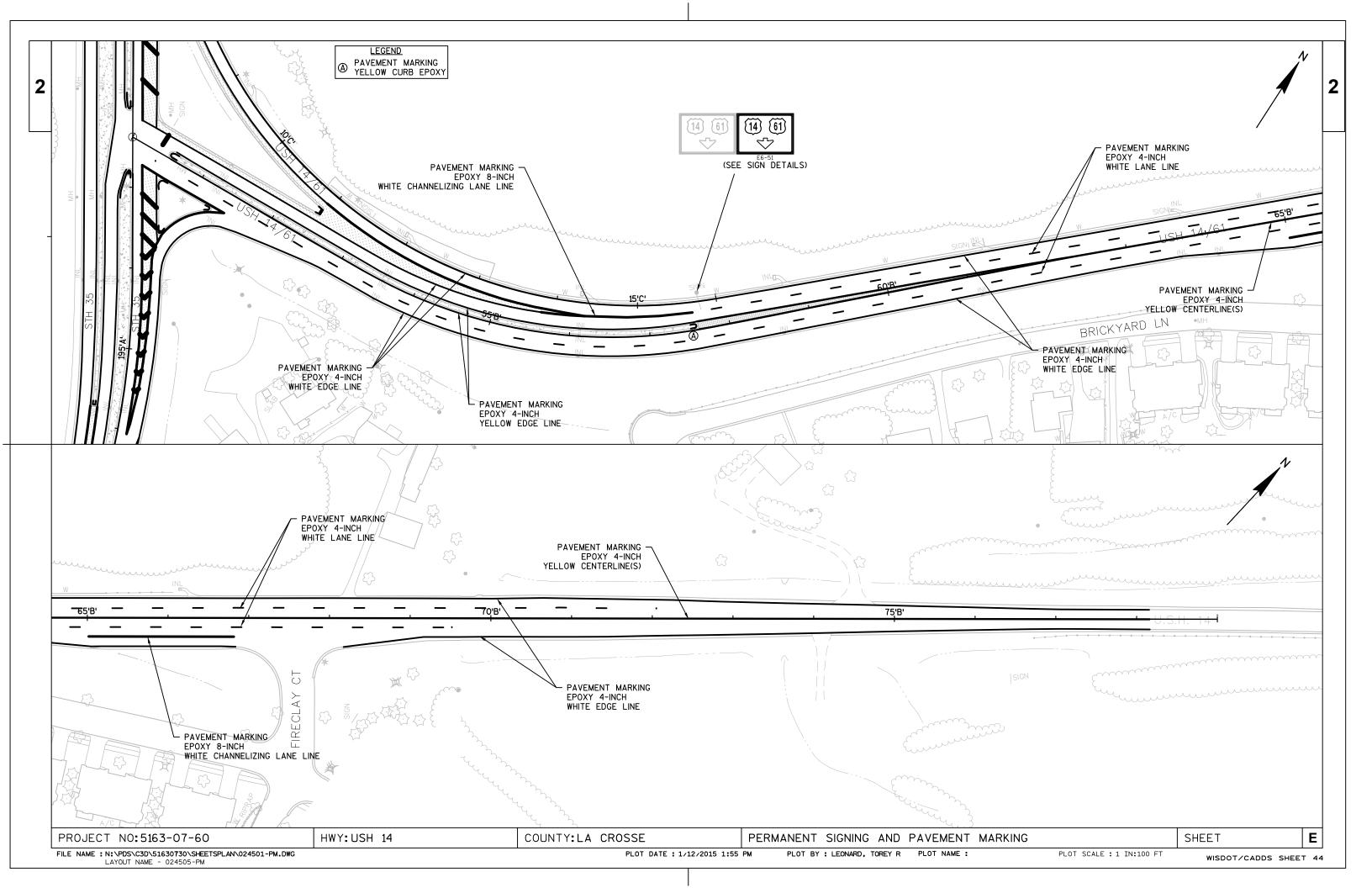


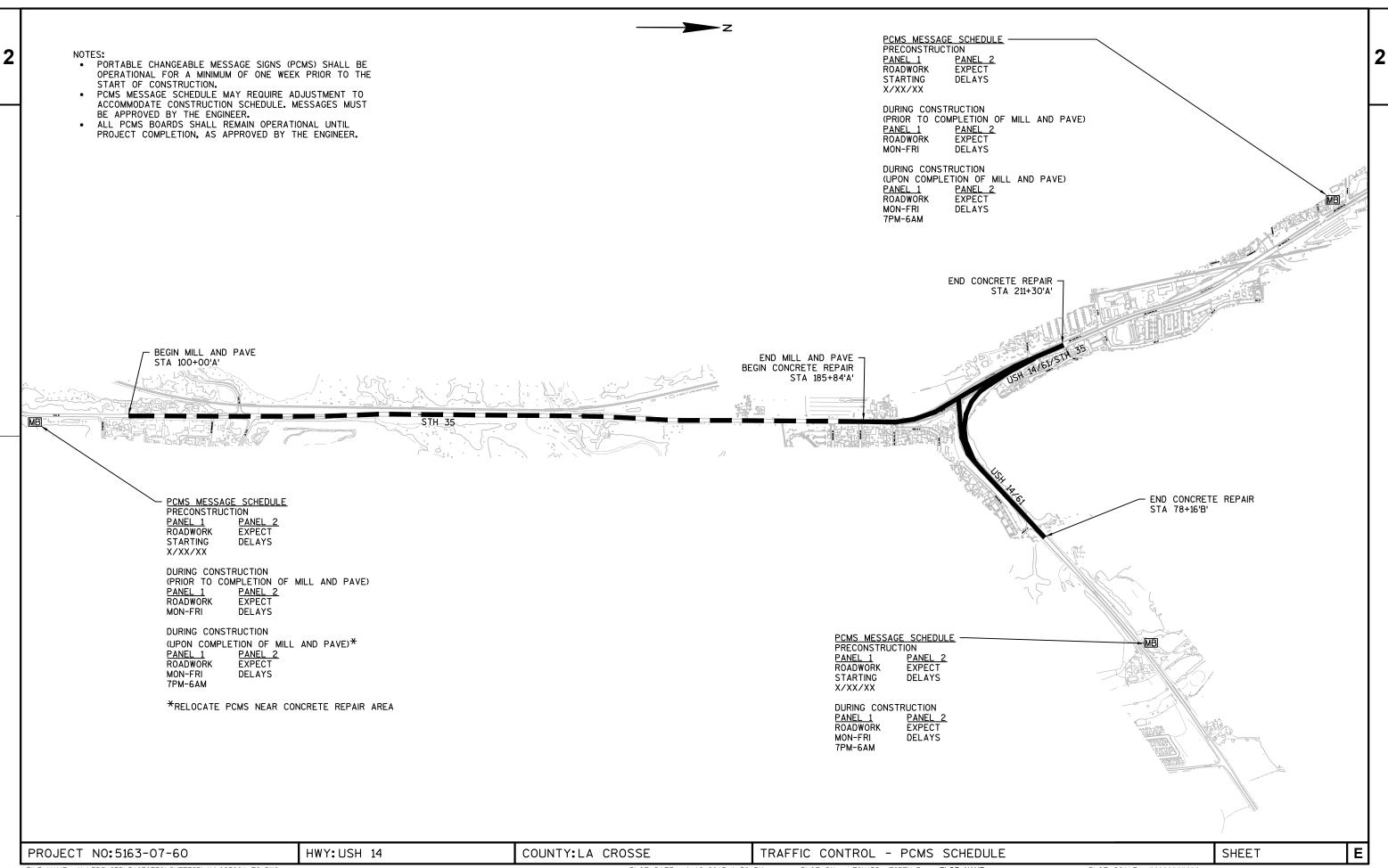


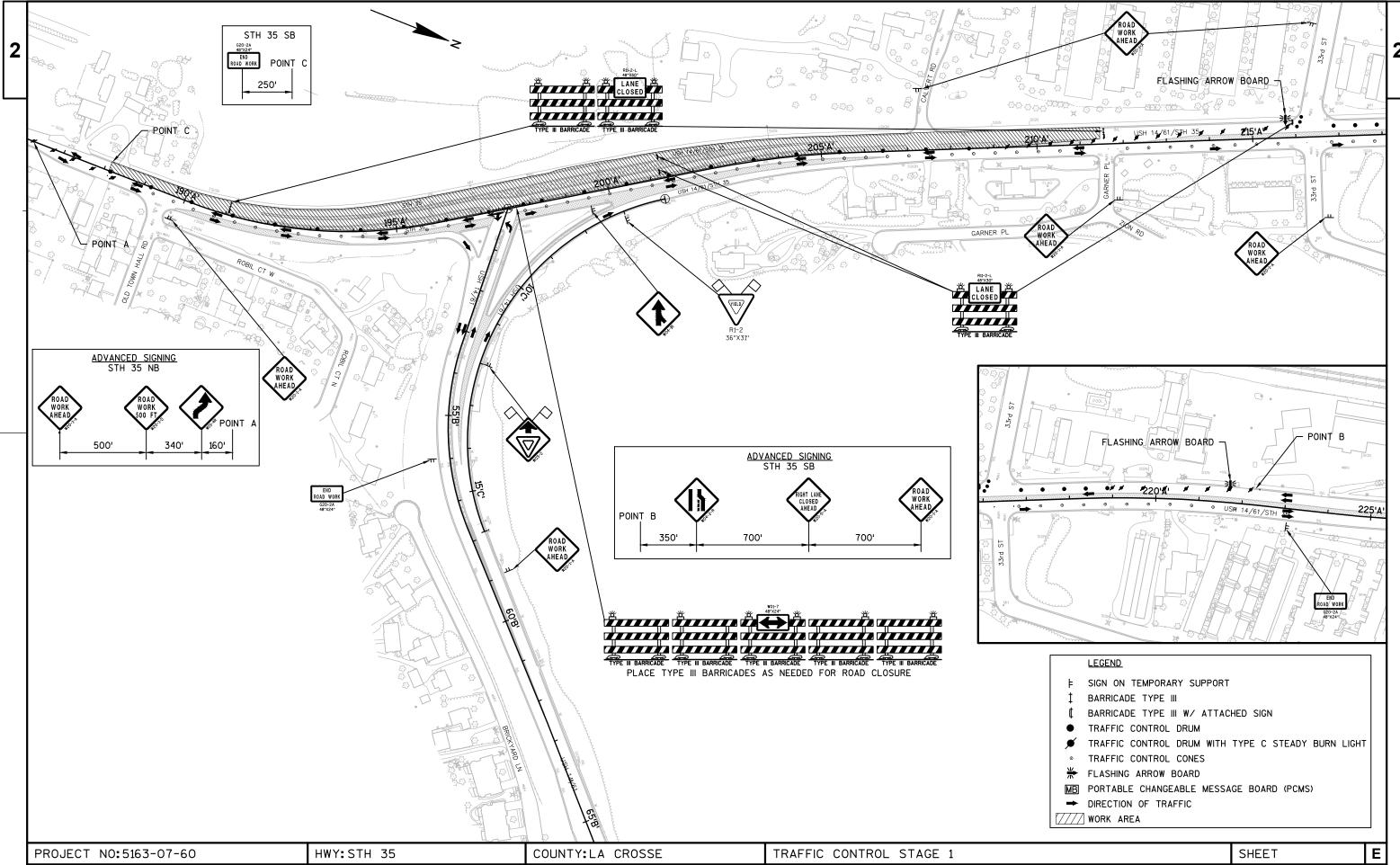


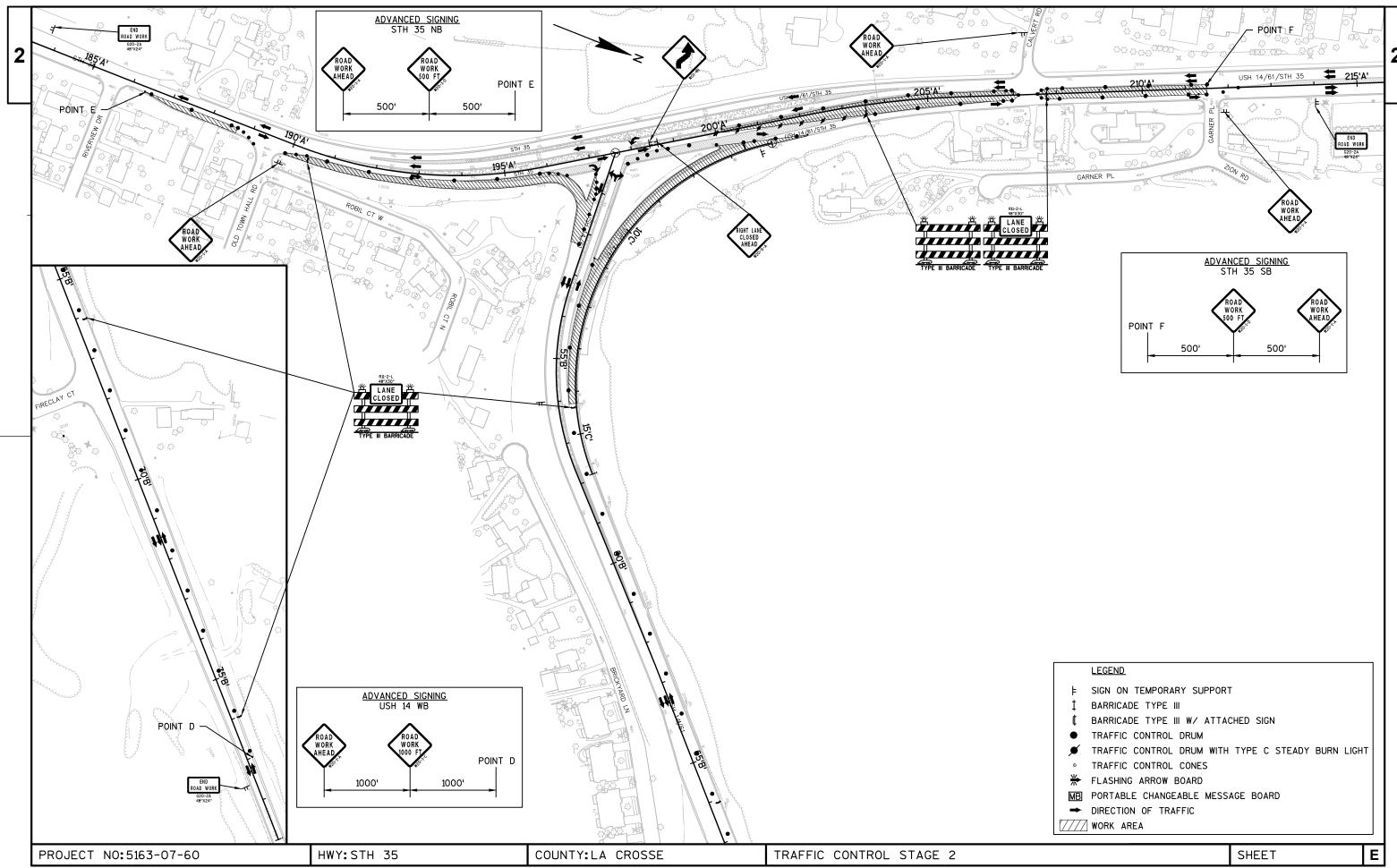


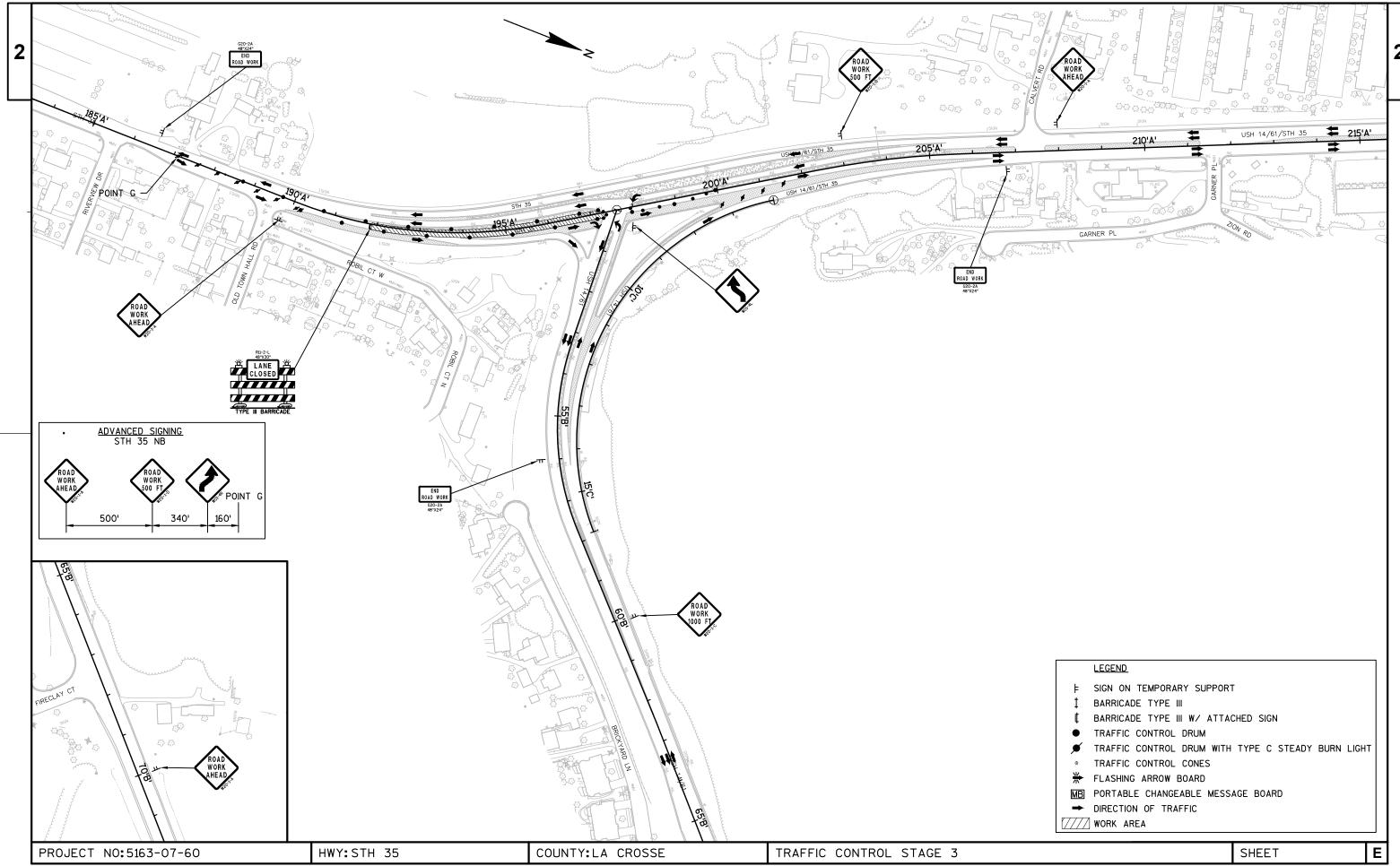


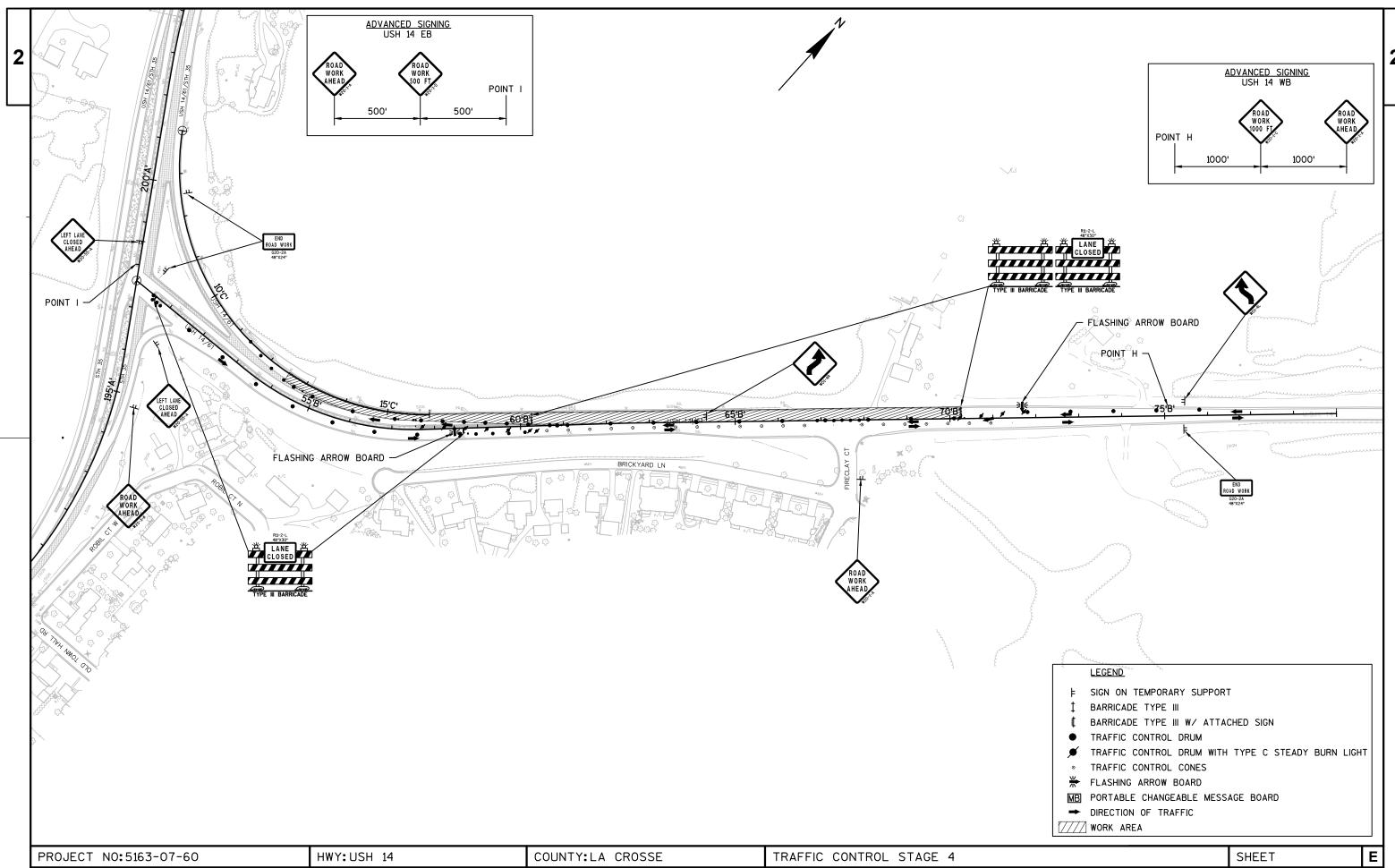


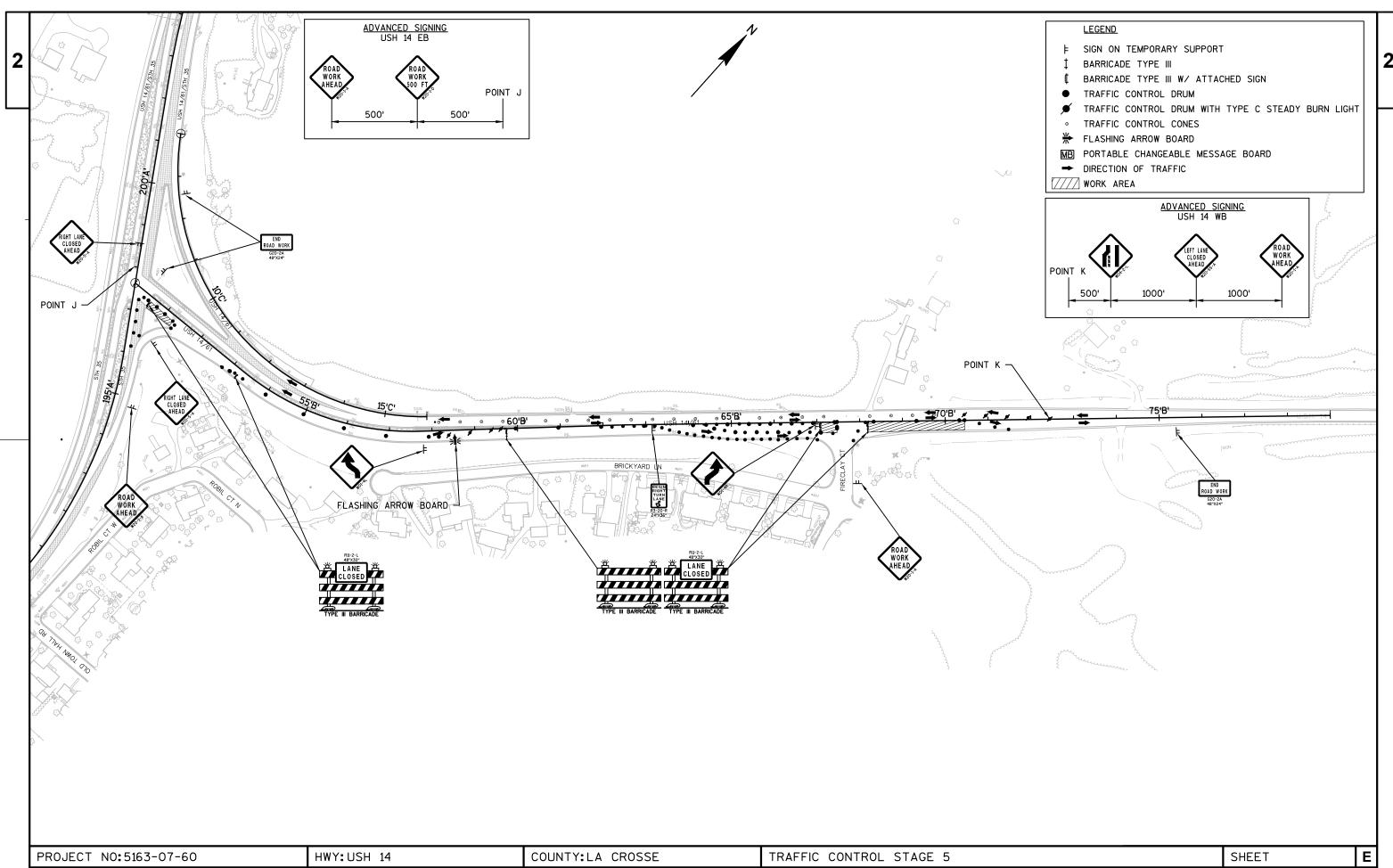












DATE 23	FEB15	E S T	IMATE	E OF QUAN	TITIES	
LI NE NUMBER	ITEM	ITEM DESCRIPTION	UNI T	TOTAL	5163-07-60 QUANTI TY	
0010	204. 0100	Removing Pavement	SY	16. 000	16. 000	
0020	204. 0110	Removing Asphaltic Surface	SY	54.000	54.000	
0030 0040	204. 0115 204. 0120	Removing Asphaltic Surface Butt Joints Removing Asphaltic Surface Milling	SY SY	32. 000 29, 315. 000	32. 000 29, 315. 000	
0050	204. 0130	Removing Curb	LF	266. 000	266. 000	
	204 0450			05.000	05.000	
0060 0070	204. 0150 213. 0100	Removing Curb & Gutter Finishing Roadway (project) 01.	LF EACH	95. 000 1. 000	95. 000 1. 000	
0070	213.0100	5163-07-60		1. 000	1.000	
0800	305. 0120	Base Aggregate Dense 1 1/4-Inch	TON	30.000	30.000	
0090 0100	416. 0610 416. 0620	Drilled Tie Bars Drilled Dowel Bars	EACH EACH	756. 000 458. 000	756. 000 458. 000	
0110	416. 1725	Concrete Pavement Replacement SHES	SY	1, 500. 000	1, 500. 000	
0120 0130	455. 0105 455. 0605	Asphaltic Material PG58-28 Tack Coat	TON GAL	182. 000 2, 054. 000	182. 000 2, 054. 000	
0140	460. 1103	HMA Pavement Type E-3	TON	3, 284. 000	3, 284. 000	
0150	460. 2000	Incentive Density HMA Pavement	DOL	2, 120. 000	2, 120. 000	
0160	460 4110 9	Reheating HMA Pavement Longitudinal	LF	9, 300. 000	9, 300. 000	
0.00	700. <del>7</del> 110. 3	Joints		7, 300. 000		
0170	465. 0105	Asphaltic Surface	TON	20.000	20.000	
0180	465. 0475	Asphalt Center Line Rumble Strips 2-Lane Rural	LF	5, 093. 000	5, 093. 000	
0190	611. 8115	Adjusting Inlet Covers	EACH	1. 000	1. 000	
0200	618. 0100	Maintenance And Repair of Haul Roads	EACH	1. 000	1. 000	
		(project) 01. 5163-07-60				
0210	619. 1000	Mobilization	EACH	1. 000	1. 000	
0220	620.0300	Concrete Median Sloped Nose	SF	60.000	60.000	
0230	625. 0100	Topsoi I	SY SY	160. 000 160. 000	160.000	
0240 0250	627. 0200 628. 1905	Mulching Mobilizations Erosion Control	EACH	2. 000	160. 000 2. 000	
0260 0270	628. 1910 628. 7015	Mobilizations Emergency Erosion Control Inlet Protection Type C	EACH EACH	2. 000 47. 000	2. 000 47. 000	
0270	628. 7570	Rock Bags	EACH	20. 000	20. 000	
0290	629. 0210	Fertilizer Type B	CWT	0. 130	0. 130	
0300	630. 0130	Seeding Mixture No. 30	LB	3. 000	3. 000	
0310	637. 1220	Signs Type I Reflective SH	SF	90. 000	90. 000	
0320	638. 2601	Removing Signs Type I	EACH	3.000	3.000	
0330	642. 5001	Field Office Type B	EACH	1.000	1.000	
0340 0350	643. 0100 643. 0300	Traffic Control (project) 01. 5163-07-60 Traffic Control Drums	EACH DAY	1. 000 1, 559. 000	1. 000 1, 559. 000	
				· 		
0360	643. 0420	Traffic Control Barricades Type III	DAY	212. 000	212. 000	
0370 0380	643. 0705 643. 0715	Traffic Control Warning Lights Type A Traffic Control Warning Lights Type C	DAY DAY	396. 000 430. 000	396. 000 430. 000	
0390	643. 0800	Traffic Control Arrow Boards	DAY	31. 000	31. 000	
0400	643.0900	Traffic Control Signs	DAY	485. 000	485. 000	
0410	643. 1050	Traffic Control Signs PCMS	DAY	114. 000	114. 000	
0410	646. 0106	Pavement Marking Epoxy 4-Inch	LF	60, 469. 000	60, 469. 000	
0430	646. 0126	Pavement Marking Epoxy 8-Inch	LF	5, 461. 000	5, 461. 000	
0440 0450	647. 0166 647. 0456	Pavement Marking Arrows Epoxy Type 2 Pavement Marking Curb Epoxy	EACH LF	10. 000 248. 000	10. 000 248. 000	
				240.000	240.000	
0460	647. 0566	Pavement Marking Stop Line Epoxy 18-Inch	LF	14.000	14. 000	
0470 0480	647. 0606 647. 0726	Pavement Marking Island Nose Epoxy Pavement Marking Diagonal Epoxy 12-Inch	EACH LF	3. 000 763. 000	3. 000 763. 000	
0480	647. 0726	Pavement Marking Crosswalk Epoxy 12-Inch		70. 000	70. 000	
0500	647. 0856	Pavement Marking Concrete Corrugated	SF	2, 829. 000	2, 829. 000	
		Median Epoxy				

DATE 23	BFEB15	E S T	ГІМАТ	E OF QUAN	
LI NE NUMBER	ITEM	I TEM DESCRIPTION	UNI T	TOTAL	5163-07-60 QUANTI TY
0510	648. 0100	Locating No-Passing Zones	MI	1. 480	1. 480
0520	649. 0200	Temporary Pavement Marking Reflective	LF	17, 748. 000	17, 748. 000
		Paint 4-Inch			
0530	690. 0250	Sawing Concrete	LF	4, 253. 000	4, 253. 000
0540	SPV. 0045	Special O1. Traffic Control Cones	DAY	839. 000	839.000
0550	SPV. 0090	Special O1. Concrete Joint Repair	LF	7, 512. 000	7, 512. 000
0560	SPV. 0090	Special O2. Concrete Curb & Gutter	LF	210. 000	210. 000
0570	CDV 0000	30-Inch Type A Shes		0 200 000	0 200 000
0570	SPV. 0090	Special 03. Removing HMA Pavement Notched Wedge Longitudinal Joint Milling	LF	9, 300. 000	9, 300. 000
0580	SPV. 0090	Special 04. Concrete curb	LF	282. 000	282. 000

**REMOV** 

OVING PAVEMENT	REMOVING ASPHALTIC SURFACE
204 0100	204.0110

			204.0100					204.0110	
CATEGORY	STATION TO STATION	LOCATION	SY	REMARKS	CATEGORY	STATION TO STATION	LOCATION	SY	REMARKS
0010	197+15'A' - 197+80'A'	LT	16	EMERGENCY VEHICLE BYPASS	0010 0010	197+15'A' - 197+22'A' 197+15'A' - 197+80'A'	LT LT	3 51	EMERGENCY VEHICLE BYPASS
		TOTAL 0010	16				TOTAL 0010	54	

### REMOVING ASPHALTIC SURFACE BUTT JOINTS

			204.0115	
CATEGORY	STATION	LOCATION	SY	REMARKS
0010	100+00'A'	MAINLINE	10	BEGIN PROJECT
0010	113+00'A'	LT	7	CTH GI
0010	114+25'A'	RT	7	CTH K
0010	185+84'A'	MAINLINE	8	END OF ASPHALT
		TOTAL 0010	32	

### REMOVING ASPHALTIC SURFACE MILLING

			204.0120
CATEGORY	STATION TO STATION	LOCATION	SY
0010	100+00'A' - 122+90'A'	MAINLINE	9817
0010	122+90'A' - 148+95'A'	MAINLINE	7544
0010	151+08'A' - 185+84'A'	MAINLINE	11954
		TOTAL 0010	29315

### REMOVING CURB AND CURB & GUTTER

CATEGORY	STATION TO STATION	LOCATION	REMOVING CURB 204.0130	REMOVING CURB & GUTTER 204.0150	DEMANG
CATEGORY	STATION TO STATION	LOCATION	LF	LF	REMARKS
0010	197+15'A' - 197+22'A'	LT		14	
0010	197+15'A' - 197+80'A'	LT		65	WEST SIDE OF EMERGENCY VEHICLE BYPASS
0010	198+00'A' - 198+68'A'	LT	68		WEST SIDE OF EB 14 TURN BAY
0010	199+12'A' - 199+80'A'	LT	68		WEST SIDE OF EB 14 TURN BAY
0010	200+34'A' - 200+84'A'	LT	50		WEST SIDE OF EB 14 TURN BAY
0010	201+33'A' - 202+13'A'	LT	80		WEST SIDE OF EB 14 TURN BAY
0010	52+02'B' - 52+18'B'	LT		16	REMOVE CURB HEAD ONLY FROM 30-INCH TYPE A
		TOTAL 0010	266	95	

### BASE AGGREGATE DENSE 1 1/4-INCH

				305.0120	
CATEGORY	STATION TO	STATION	LOCATION	TON	REMARKS
0010	197+15'A' -	197+80'A'	LT	30	EMERGENCY VEHICLE BYPASS
			TOTAL 0010	30	

PF	ROJECT NO: 5163-07-60	HWY: STH 35	COUNTY: LA CROSSE	MISCELLANEOUS QUANTITIES	SHEET:	E	
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FILE NAME : PLOT DATE : PLOT BY : PLOT NAME : PLOT SCALE

											FINISHI	NG ITEMS				
	CATEGORY					_	CATEGORY	STATION	LOCATION	625.0100	627.0200	TYPE B 629.0210	MIXTURE NO. 30 630.0130		REMARKS	
Total Olive	0010	51+36'B'	RT	1												
Catholine   Cath		Т	OTAL 0010	1					TOTAL 0010	160	160	0.13	3			
	<u>C</u>	ONCRETE MEDIA	N SLOPED NOSE	<u> </u>										ROC	CK BAGS	
TOTAL 0010 60	CATEGORY	STATION	LOCATION										CATEGORY	STATION	LOCATION	
TOTAL 00.0 60    CATEGORY   STATION   COATTON   COATTON	0010		=					SIGNS TYPE I	REFLECTIVE SH							
TILET PROTECTION TYPE C		ר	OTAL 0010	60					CTCN PRIDGE	SF			0010 0010 0010	61+25'B' 63+75'B' 66+25'B'	LT LT LT LT	2 2 2 2
CATEGORY   STATION   LOCATION   EACH   STATION   LOCATION   EACH   STATION   LOCATION   STATION   LOCATION   STATION   LOCATION   LOCATION   EACH   LOCATI		INLET PROTE	CTION TYPE C	628 7015	0010	203+84'A'	LT, SIN	NGLE MONOTUBE	SIGN BRIDGE	20	STH 35		0010 0010	9+30'C' 12+05'C'	LT LT	2
0010 188-197'A' RT 1 0010 186-007'A' RT 1 0010 188-007'A' RT 1 0010 188-007'A' RT 1 0010 189-007'A' RT 1 0010 189-007'A' RT 1 0010 192-347'A' LT 2 0010 194-247'A' LT 3 0010 199-447'A' LT 5 0010 199-407'A' LT 5 0010 199-407'A' LT 3 0010 201-327'A' LT 3 0010 201-327'A' LT 1 0010 201-	CATEGORY	STATION	LOCATION						TOTAL 0010	90			0010	14+40°C		
0010   195+84'A'   LT   S     S   S   S   S   S   S   S   S	0010 0010 0010 0010 0010 0010	186+00'A' 187+05'A' 189+33'A' 189+83'A' 189+85'A' 192+34'A'	RT RT RT RT LT LT	1 1 1 1 1 2												
199+84'A'   LT   S   STATION   LOCATION   EACH	0010	195+84'A'		3 5										MOBILIZATI	ONS EROSION CON	<u></u>
0010 202+40'A' LT 1 0010 203+84'A' LT, SINGLE MONOTUBE SIGN BRIDGE 1 USH 14, USH 61 TOTAL 0010 2 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0010 0010	199+84'A' 199+90'A'	LT RT	<u>1</u> 5 1				REMOVING	SIGNS TYPE I	638.2601						EACH
0010 208+24'A' LT 1 0010 15+78'C' LT, SINGLE MONOTUBE CANTILEVER 1 USH 14, USH 61 0010 211+82'A' LT 1 0010 51+23'B' LT 3 0010 51+23'B' RT 1 0010 53+58'B' LT & RT 3 0010 56+12'B' LT & RT 1 0010 58+65'B' RT 1 0010 63+65'B' RT 1	0010 0010	202+40'A' 203+70'A'	LT	3 1 2					E SIGN BRIDGE	EACH 1			0010	PROJECT		
0010     51+23'B'     LT     3       0010     51+37'B'     RT     1       0010     53+58'B'     LT & RT     3       0010     56+12'B'     LT & RT     3       0010     56+12'B'     RT     1       0010     61+14'B'     RT     1       0010     63+65'B'     RT     1       0010     64+12'B'     RT     1       0010     64+12'B'     RT     1	0010 0010	208+24'A' 211+41'A'	LT RT	1 1 1								USH 61				
0010 56+12'B' LT & RT 3 0010 58+65'B' RT 1 0010 61+14'B' RT 1 0010 63+65'B' RT 1 0010 64+12'B' RT 1 0010 PROJECT LIMITS 2	0010 0010	51+23'B' 51+37'B'	LT RT	3 1 3					TOTAL 0010	3			<u>M0</u>	BILIZATIONS	EMERGENCY EROSI	ON CONTROL
0010 63+65'B' RT 1 0010 64+12'B' RT 1 0010 PROJECT LIMITS 2	0010 0010	56+12'в' 58+65'в'	LT & RT RT	3 1 1												628.1910
TOTAL 0010 47	0010	63+65'B'	RT	1 1									0010	PROJEC	T LIMITS	2
			TOTAL 0010	47											TOTAL 0010	2
							Y: LA CRO		МІ							

									PAVEMENT MAR	RKINGS						
	CATEGORY	STATION TO STATION	LOCATION	YELLOW	EPOXY 4-INCH WH 646.0106 LF	HITE	EPOXY 8-INCH 646.0126 LF	ARROWS EPOXY TYPE 2 647.0166 EACH	CURB EPOXY 647.0456 LF	STOP LINE EPOXY 18-INCH 647.0566 LF	ISLAND NOSE EPOXY 647.0606 EACH	DIAGONAL EPOXY 12-INCH 647.0726 LF	CROSSWALK EPOXY 12-INCH 647.0776 LF	CONCRETE CORRUGATED MEDIAN EPOXY 647.0856 SF	TEMPORARY REFLECTIVE PAINT 4-INCH 649.0200 LF	REMARKS
	0010														4427	ADDITED TO MILLED CURFACE
	0010 0010 0010 0010	100+00'A' - 107+60'A' 100+00'A' - 107+60'A' 100+00'A' - 107+60'A' 100+00'A' - 211+30'A'	CL CL CL LT, STH 35 SB	2310		0900									4437 4437	APPLIED TO MILLED SURFACE APPLIED TO FINAL SURFACE PRIOR TO RUMBLE STRIPS 4" YELLOW CENTERLINES 4" WHITE EDGE LINE
<b>3</b>	0010 0010	100+00'A' - 211+30'A' 107+60'A' - 109+52'A'	RT, STH 35 NB LT		10	0604								590		4" WHITE EDGE LINE
	0010 0010 0010	107+60'A' - 122+90'A' 107+60'A' - 122+90'A' 108+45'A' - 109+60'A'	LT, STH 35 NB LT, STH 35 SB RT, COTTONWOOD DR	1306 1212		29										4" YELLOW EDGE LINE 4" YELLOW EDGE LINE 4" WHITE EDGE LINE 3' SKIPS
	0010	110+28'A' - 112+45'A'	LT											355		
	0010 0010 0010	111+37'A' - 112+43'A' 111+60'A' 112+20'A'	LT, CTH GI LEFT TURN LT LT				105	1 1								8" WHITE CHANNELIZING LANE LINE CTH GI LEFT TURN CTH GI LEFT TURN
	0010	112+56'A' - 113+71'A'	RT, CTH K	106		29										4" WHITE EDGE LINE 3' SKIPS
ŀ	0010 0010	113+00'A' 113+00'A'	LT, CTH GI LT, CTH GI	106		38										4" YELLOW CENTERLINES 4" WHITE EDGE LINES
	0010 0010 0010	113+30'A' - 114+06'A' 113+72'A' - 116+72'A' 114+40'A'	LT LT, CTH GI RIGHT TURN RT, CTH K	99			300							324		8" WHITE CHANNELIZING LANE LINE 4" YELLOW CENTERLINES
	0010	114+40'A'	RT, CTH K			41										4" WHITE EDGE LINES
	0010 0010 0010	114+97'A' - 118+00'A' 114+97'A' - 122+89'A' 115+22'A'	LT, CTH K LEFT TURN LT LT				303	1						1560		8" WHITE CHANNELIZING LANE LINE CTH K LEFT TURN
	0010	117+77'A'	LT					1								CTH K LEFT TURN
- }	0010 0010	122+90'A' - 185+84'A' 122+90'A' - 185+84'A'	CL CL												4437 4437	APPLIED TO MILLED SURFACE APPLIED TO FINAL SURFACE PRIOR TO RUMBLE STRIPS
	0010	122+90'A' - 192+32'A'	CL	5845											4437	4" YELLOW CENTERLINES (1325 LF OF 12.5' SKIPS)
	0010 0010	179+95'A' - 181+95'A' 181+34'A' - 183+84'A'	RT, SUNNYSIDE DR RIGHT TURN LT, SUNNYSIDE DR BYPASS			63	200									8" WHITE CHANNELIZING LANE LINE 4" WHITE LANE LINE 12.5' SKIPS
	0010	183+68'A' - 185+18'A'	RT, RIVERVIEW DR			38										4" WHITE EDGE LINE 3' SKIPS
	0010	186+04'A' 186+10'A'	MAINLINE STH 35 MAINLINE STH 35										35 35			
	0010 0010 0010	187+05'A' - 188+95'A' 190+10'A' - 205+81'A'	RT, OLD TOWN HALL RD RIGHT TURN RT				190					763	33			8" WHITE CHANNELIZING LANE LINE
L	0010	190+24'A' - 194+22'A'	LT, STH 35 SB (2 LANES)				780					705				8" WHITE CHANNELIZING LANE LINE
	0010 0010 0010	192'32'A' 211+30'A' 192'32'A' 211+30'A' 192+34'A' - 192+42'A'	LT, STH 35 NB LT, STH 35 SB TURN LANE LT	1750 1757					17							4" YELLOW EDGE LINE 4" YELLOW EDGE LINE
	0010	192+54'A' - 193+95'A'	RT, USH 14			36										4" WHITE EDGE LINE 3' SKIPS
ŀ	0010 0010	193+95'A' - 206+45'A' 194+22'A' - 202+33'A'	RT, STH 35 NB & USH 14 WB RAMP LT, STH 35 SB	805			2131									8" WHITE CHANNELIZING LANE LINE 4" YELLOW EDGE LINE
	0010	194+22'A' - 202+35'A'	LT, STH 35 SB TURN LANE	003	8	809										4" WHITE EDGE LINE
	0010 0010	194+24'A' - 194+30'A' 196+45'A' - 196+53'A'	LT RT						12 12		1					STH 35 TO USH 14 EB RIGHT TURN ISLAND
L	0010	196+87'A' - 197+18'A'	LT						36							
	0010 0010	197+18'A' 197+97'A' - 198+17'A'	LT LT						31		1					
	0010	202+28'A' - 202+38'A'	LT						26							
	0010 0010	202+35'A' - 205+13'A' 205+13'A' - 211+30'A'	LT, STH 35 SB (2 LANES) LT, USH 14 EB		1	155	565									8" WHITE CHANNELIZING LANE LINE 4" WHITE CENTERLINE 12.5' SKIPS
ŀ	0010	205+25'A' - 205+34'A'	LT			± <i>JJ</i>			25							
	0010 0010	205+30'A' - 211+30'A' 205+30'A' - 211+30'A'	LT, STH 35 NB LT, STH 35 SB	134 135												4" YELLOW EDGE LINE 12.5' SKIPS 4" YELLOW EDGE LINE 12.5' SKIPS
	0010	206+45'A' - 211+30'A'	RT, USH 14 WB	T22	1	122										4" WHITE CENTERLINE 12.5" SKIPS
- }	0010 0010	206+56'A' 206+82'A'	LT LT					1								TWLTL AT CALVERT RD TWLTL AT CALVERT RD
	0010	200+82 A 2 207+85 'A'	LT					1								TWLTL AT CALVERT RD
	0010	208+11'A'	LT					1								TWLTL AT CALVERT RD
	0010 0010	210+88'A' 211+14'A'	LT LT					1								TWLTL AT GARNER PL TWLTL AT GARNER PL
F									ONTINUED ON NE							
L	PROJE	CT NO: 5163-07-60	HWY: STH 3	5		(	COUNTY: L	A CROSSE		MI	SCELLANE	OUS QUAN	ITITIES			SHEET: <b>E</b>

									CC		M PREVIOUS SH IT MARKINGS	EET							
ATEGOR\	/ STATION	TO STATI	ON LOCA	TION		4-1 YELLOW 646.	OXY INCH WH: .0106 _F	EPOX TE 8-INC 646.01 LF	H TYPE 2 26 647.0166	CURE EPOX 647.04 LF	Y 18-II 456 647.0	(Y NCH 566	ISLAND NOSE EPOXY 647.0606 EACH	DIAGONAL EPOXY 12-INCH 647.0726	EPOXY 12-INCH	CONCRETE CORRUGATED MEDIAN EPOXY 647.0856 SF	TEMPORARY REFLECTIVE PA 4-INCH 649.0200 LF	INT	REMARKS
0010	50+00'B'			USH 14 WB			26	10	-				-					4" WHITE ED	GE I TNE
0010 0010 0010 0010	50+28'B' 50+37'B'	' - 51+47'I	B' RT,	USH 14 EB			4	166			14							8" WHITE CH USH 14 WB T	ANNELIZING LANE LINE O STH 35 SB NTERLINE 12.5' SKIPS
0010	50+39'B'	' - 69+52'	B' RT,	USH 14 EB			19												NTERLINE 12.5' SKIPS
0010 0010 0010	50+52'B' 50+55'B' 50+55'B'	' - 57+55'I	3' LT,	USH 14 EB USH 14 WB		702 695				23								4" YELLOW E 4" YELLOW E	
0010 0010	50+57'B' 51+19'R'		B' RT	USH 14 EB			25	92		21								STH 35 TO U 4" WHITE ED	SH 14 EB RIGHT TURN ISLAND
0010 0010	51+20'B' 52+42'B'	' - 51+27'I ' - 52+49'I	3' RT 3' LT	03H 11 EB				<i>,</i>		15 13			1						SH 14 EB RIGHT TURN ISLAND
0010 0010 0010	57+52'B' 57+55'B'		3' LT,	USH 14 WB USH 14		4995	14	49		17								4" WHITE CE 4" YELLOW C	NTERLINE 12.5' SKIPS
0010 0010	57+57'B' 57+61'B'	' - 72+05'  ' - 78+16'	B' RT, B' CL	USH 14 WB		4995	3											4" WHITE CE 4" YELLOW C	NTERLINE 12.5' SKIPS ENTERLINES
0010 0010 0010	65+02'B' 6+00'C' 7+25'C'	- 15+67'	c' LT,	FIRECLAY CT RIOUSH 14 WB RAMP USH 14 WB RAMP		378	9	180										8" WHITE CH 4" WHITE ED 4" YELLOW E	
0010		' - 15+67'		USH 14 WB RAMP		310		541											ANNELIZING LANE LINE
					SUBTOTAL	27224	333	45											
					TOTAL 0010		469	5461	10	248			3	763	70	2829	17748	<del>_</del>	
					TOTAL UUIU	60	409	3401	10	240	14		3	703	70	2029	17740		
										TRAFFIC C	CONTROL								
						TRAFFIC CONTE	ROL E	FFIC CONTROL ARRICADES TYPE III	TRAFFIC CO WARNING L TYPE	IGHTS \	RAFFIC CONT WARNING LIG TYPE C		TRAFFIC CO		TRAFFIC CONTROI SIGNS	_ TRAFFIC C		FFIC CONTROL CONES	
						643.0300		643.0420	643.07	05	643.0715		643.08	00	643.0900	643.1	050 s	PV.0045.01	
			CATEGO		LON	DAY		DAY	DAY		DAY		DAY		DAY	DAY		DAY	
			0010 0010		NSTRUCTION 1	684		144	260		324		24		288	21 48		756	
			0010			510		40	80		40		24		100	21		750	
			0010			80		2	4		24		_		26	6			
			0010 0010			189 96		<u>18</u> 8	36 16		33 9		6 1		51 20	15 3		23	
			0010	MTIL /	AND DAVE	30		U	10		9				20	3		23	

PROJECT NO: 5163-07-60 HWY: STH 35 COUNTY: LA CROSSE MISCE	ISCELLANEOUS QUANTITIES	SHEET:	Е
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31

485

114

839

396

212

1559

0010

MILL AND PAVE

TOTAL 0010

### LOCATING NO-PASSING ZONES

### SPECIAL CONCRETE JOINT REPAIR

				648.0100
CATEGORY	STATION TO	STATION	LOCATION	MI
0010	100+00'A' -	104+00'A'	STH 35	0.08
0010	124+00'A'	190+00'A'	STH 35	1.25
0010	71+00'B'	79+00'B'	USH 14	0.15
			TOTAL 0010	1.48

			SPV.0090.01	
CATEGORY	STATION TO STATION	LOCATION	LF	REMARKS
0010	188+15'A' - 194+20'A'	LT	478	TC STAGE 1, TRANSVERSE JOINTS
0010	196+05'A' - 197+15'A'	LT	110	TC STAGE 1, LONGITUDINAL JOINTS
0010	190+64'A' - 202+53'A'	LT	1044	TC STAGE 1, LONGITUDINAL JOINTS
0010	194+20'A' - 205+35'A'	LT	1425	TC STAGE 1, TRANSVERSE JOINTS
0010	205+35'A' - 211+30'A'	LT	745	TC STAGE 1, TRANSVERSE JOINTS
0010	205+35'A' - 211+30'A'	LT	563	TC STAGE 1, LONGITUDINAL JOINTS
0010	192+73'A' - 196+75'A'	RT	212	TC STAGE 2
0010	195+24'A' - 196+08'A'	RT	85	TC STAGE 2, LONGITUDINAL JOINTS
0010	51+00'B' - 51+95'B'	RT	36	TC STAGE 2, TRANSVERSE JOINTS
0010	203+93'A' - 211+30'A'	RT	402	TC STAGE 2, TRANSVERSE JOINTS
0010	203+93'A' - 211+30'A'	RT	738	TC STAGE 2, LONGITUDINAL JOINTS
0010	7+80'C' - 14+35'C'	RT	63	TC STAGE 2, TRANSVERSE JOINTS
0010	196+70'A' - 197+81'A'	RT	97	TC STAGE 3
0010	56+20'B' - 70+15'B'	LT	814	TC STAGE 4
0010	67+20'B' - 70+15'B'	RT	20	TC STAGE 5
0010		UNDISTRIBUTED	680	

TOTAL 0010 7512

### SPECIAL CONCRETE CURB ITEMS

SPECIAL

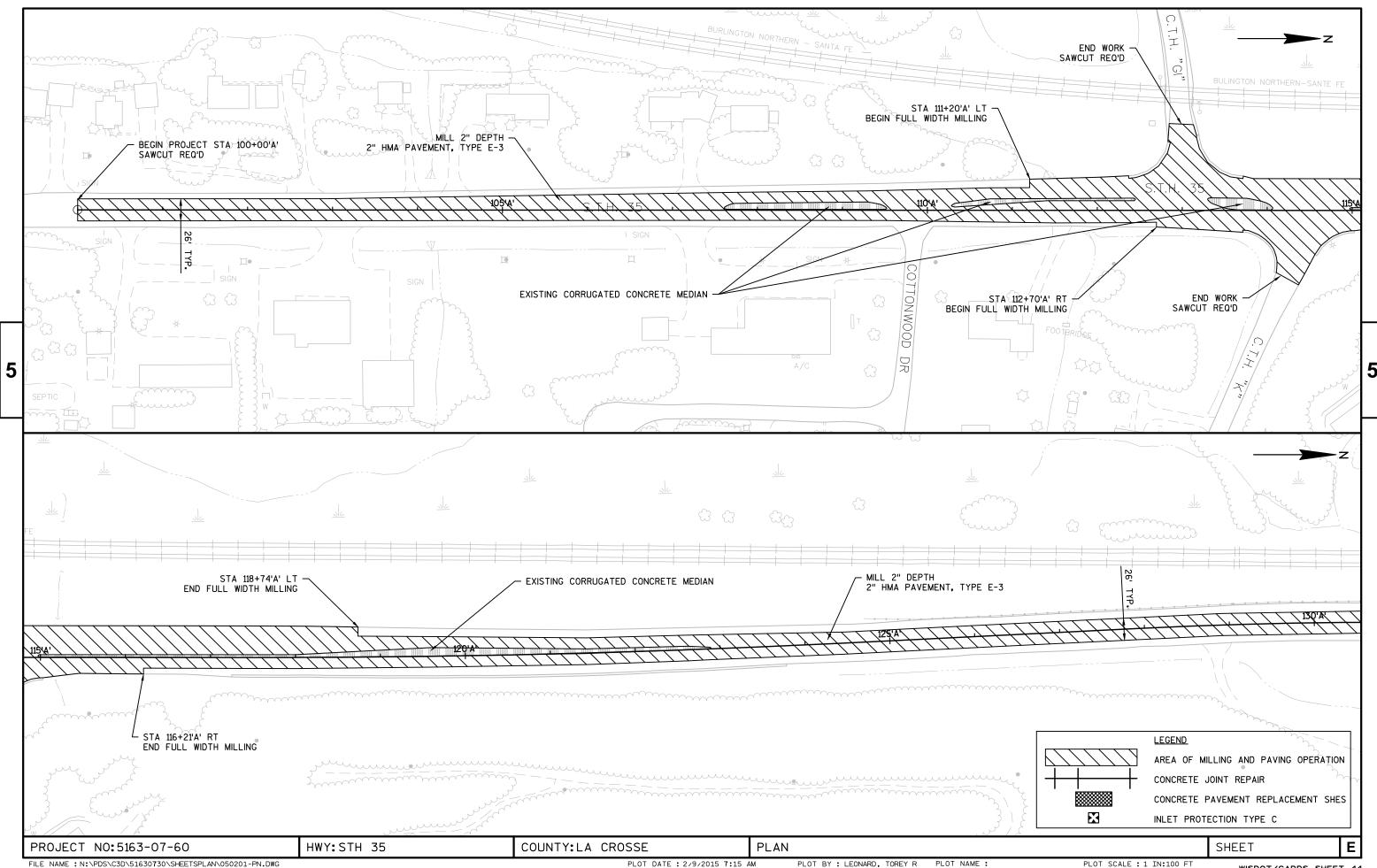
			CONCRETE CURB & GUTTER	SPECIAL	
			30-INCH TYPE A SHES	CONCRETE CURB	
			SPV.0090.02	SPV.0090.04	
CATEGORY	STATION TO STATION	LOCATION	LF	LF	REMARKS
0010	196+00'A' - 196+18'A'	RT	18		RT TURN LANE, NB 35 TO EB 14; RT SIDE
0010	197+15'A' - 197+60'A'	LT	45		EAST SIDE OF EMERGENCY VEHICLE BYPASS
0010	197+15'A' - 197+80'A'	LT	65		WEST SIDE OF EMERGENCY VEHICLE BYPASS
0010	198+00'A' - 198+68'A'	LT		68	WEST SIDE OF EB 14 TURN BAY
0010	199+12'A' - 199+80'A'	LT		68	WEST SIDE OF EB 14 TURN BAY
0010	200+34'A' - 200+84'A'	LT		50	WEST SIDE OF EB 14 TURN BAY
0010	201+33'A' - 202+13'A'	LT		80	WEST SIDE OF EB 14 TURN BAY
0010	50+95'B' - 51+40'B'	RT	46		RT TURN LANE, NB 35 TO EB 14; REVERSE SLOPE; LT SIDE
0010	50+95'B' - 51+40'B'	RT	36		RT TURN LANE, NB 35 TO EB 14; RT SIDE
0010	52+02'B' - 52+18'B'	LT		16	REMOVE CURB HEAD ONLY FROM 30-INCH TYPE A
		TOTAL 0010	210	282	
		TOTAL UUIU	210	202	

### SPECIAL REMOVING HMA PAVEMENT NOTCHED WEDGE LONGITUDINAL JOINT MILLING

SPV.0090.03

CATEGORY	STATION	то	STATION	LOCATION	LF
0010	400 001.1		400 001.1	=	4000
0010	100+00'A'	-	122+90'A'	MAINLINE	1900
0010	122+90'A'	-	148+95'A'	MAINLINE	2600
0010	151+08'A'	-	185+84'A'	MAINLINE	4800
				TOTAL 0010	9300

PROJECT NO: 5163-07-60 HWY: STH 35 COUNTY: LA CROSSE MISCELLANEOUS QUANTITIES SHEET: **E** 

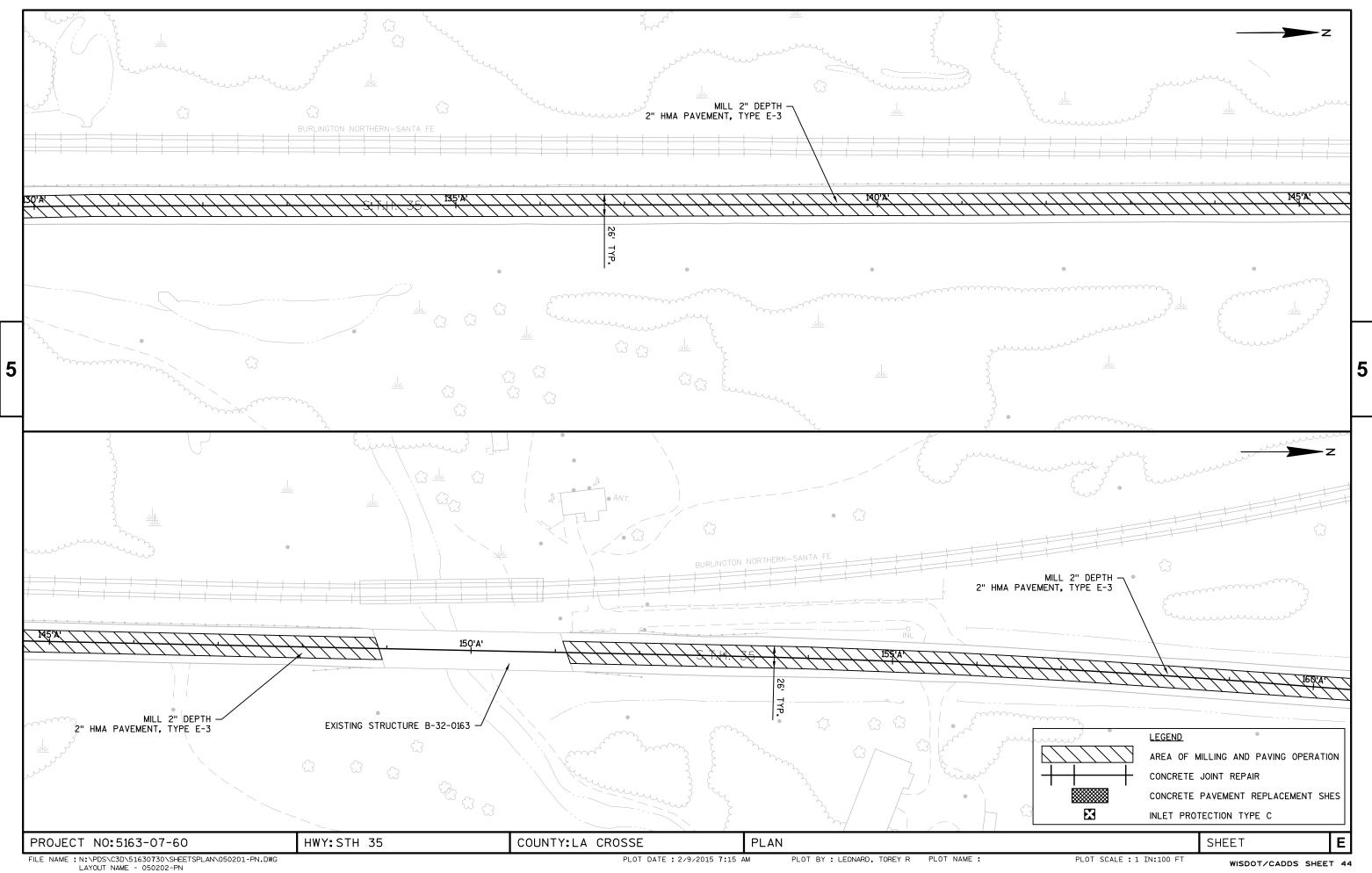


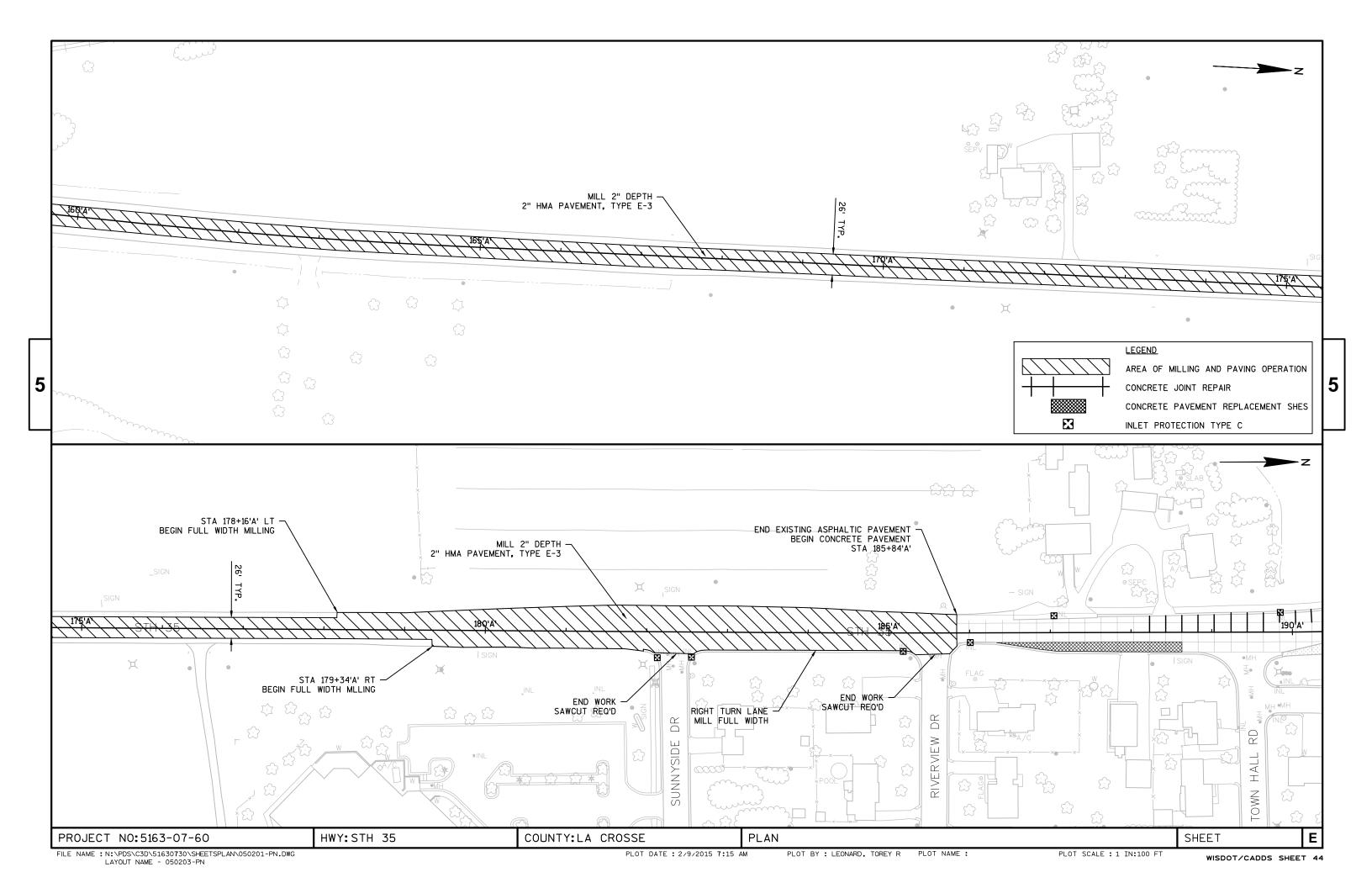
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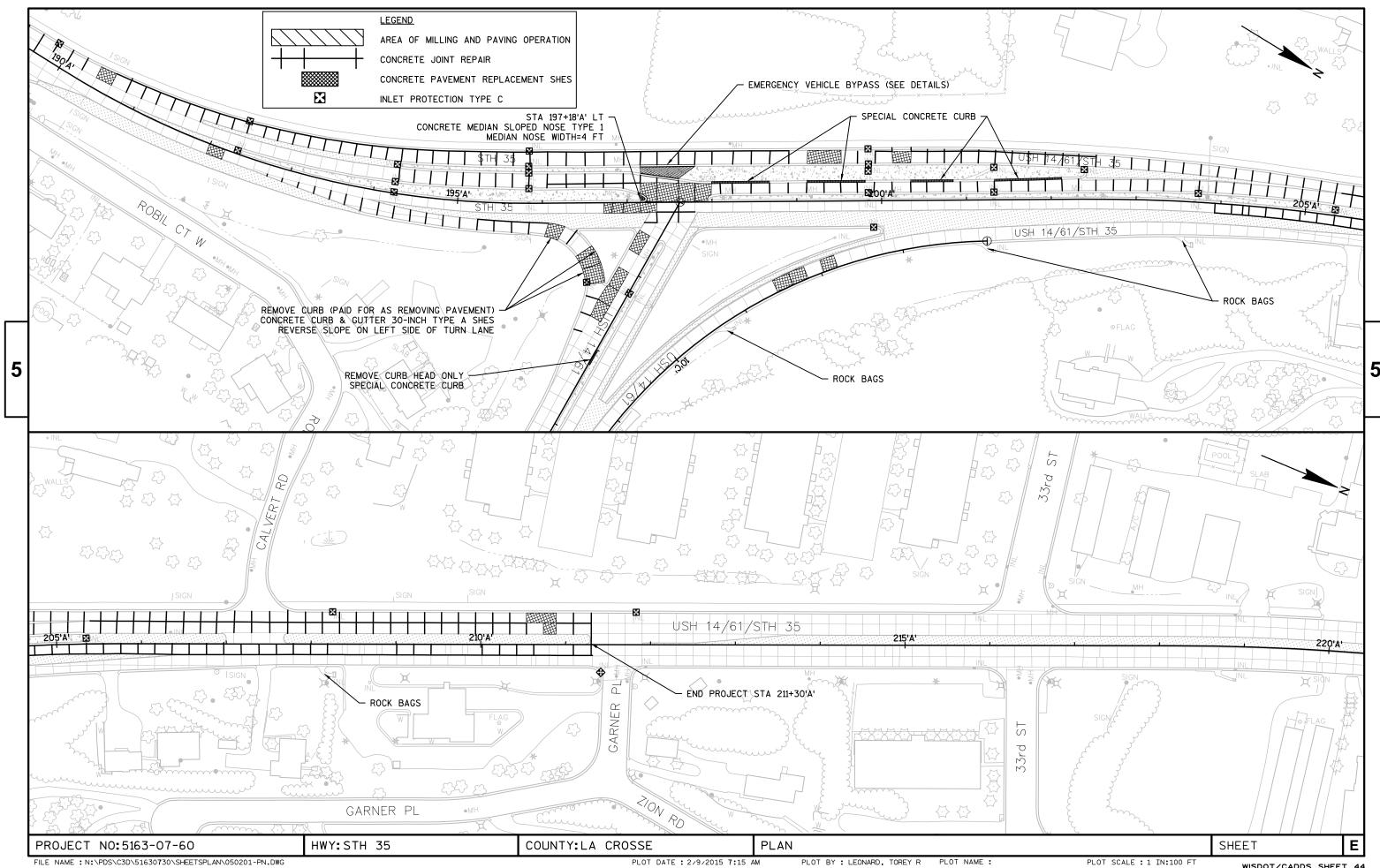
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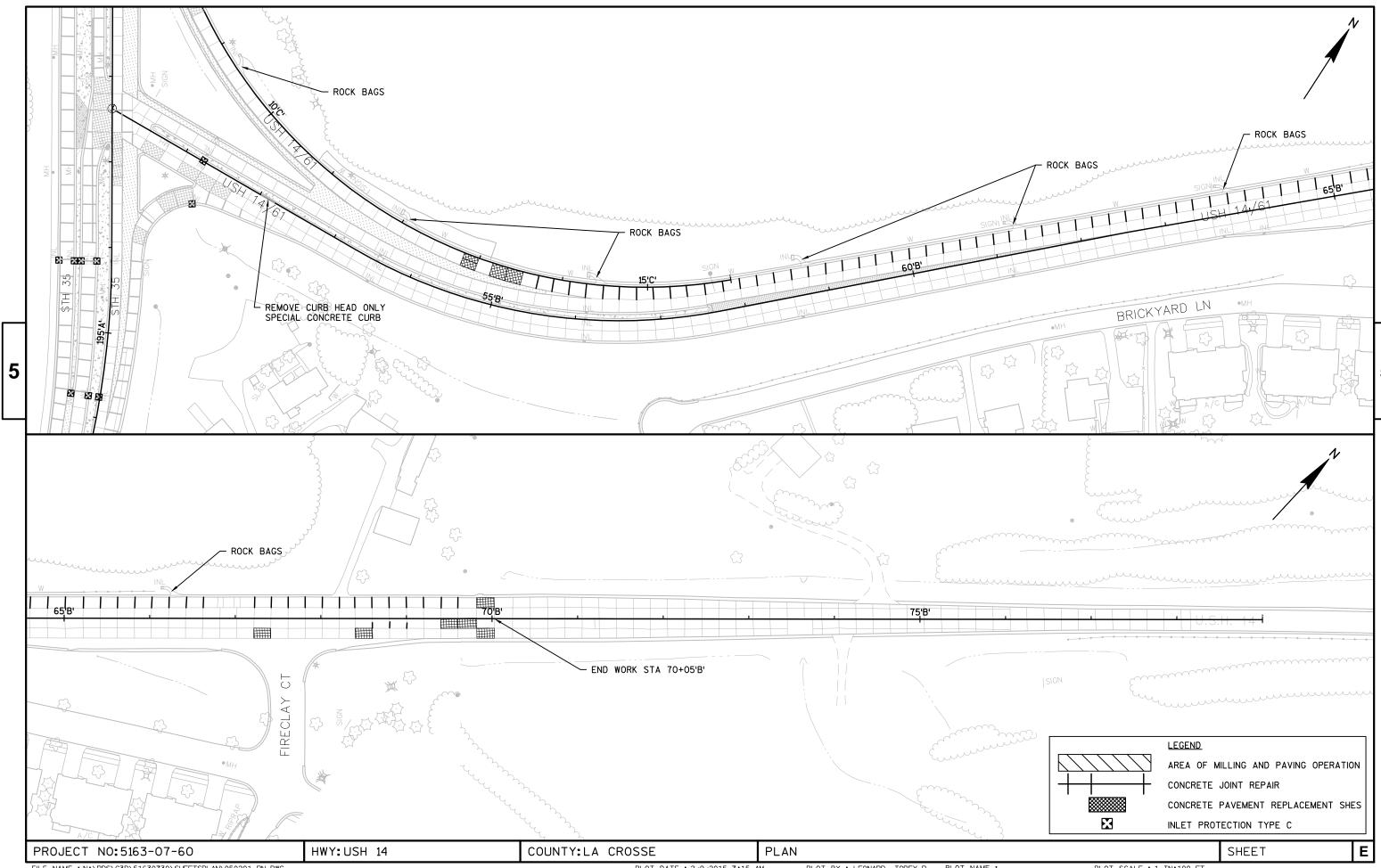
PLOT BY: LEONARD, TOREY R PLOT NAME:

WISDOT/CADDS SHEET 44





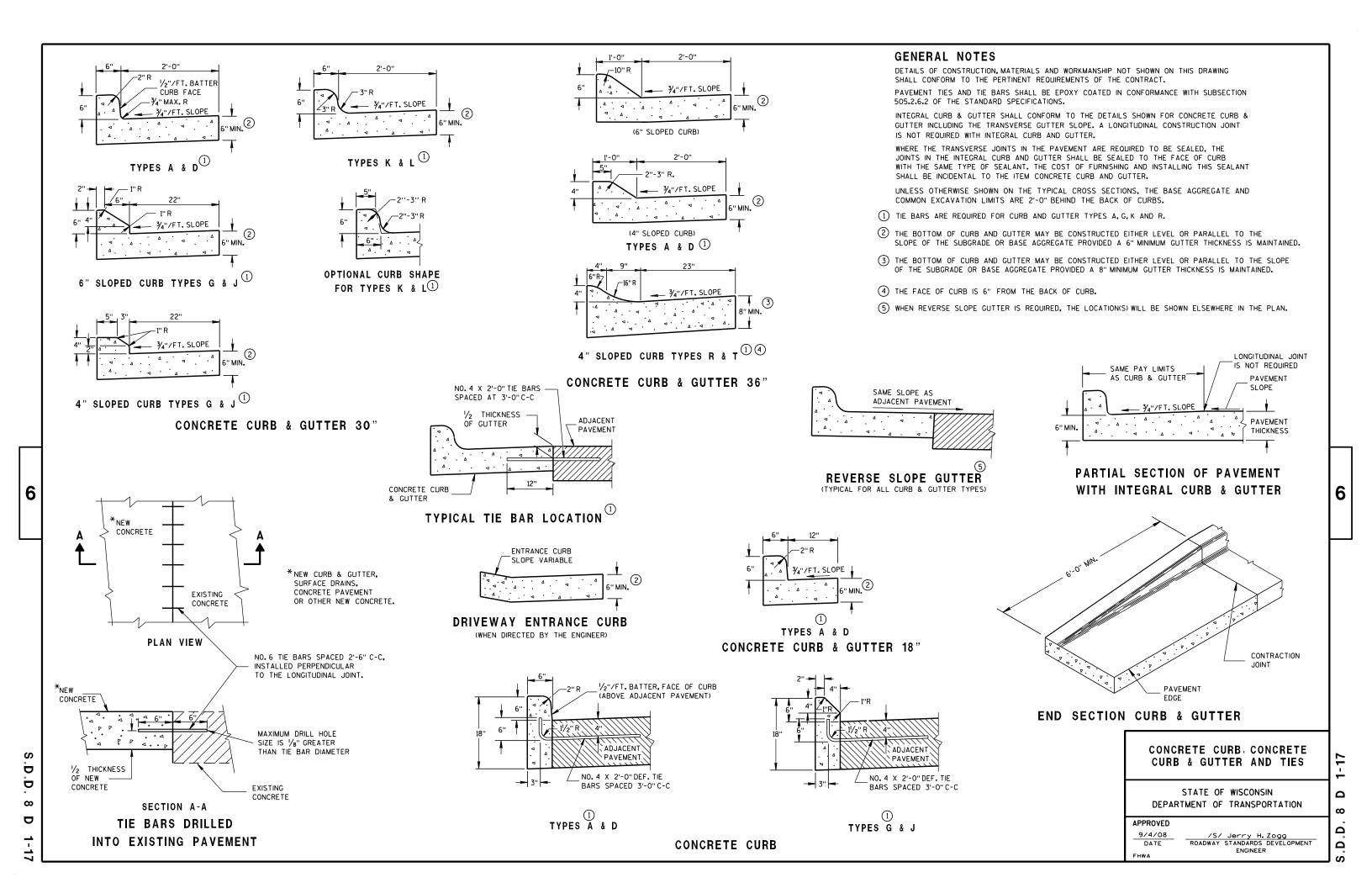


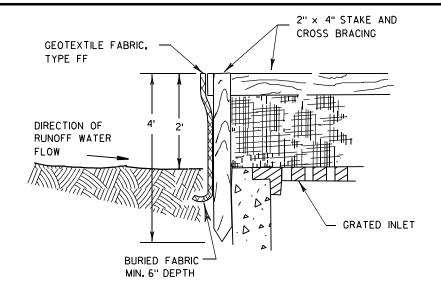


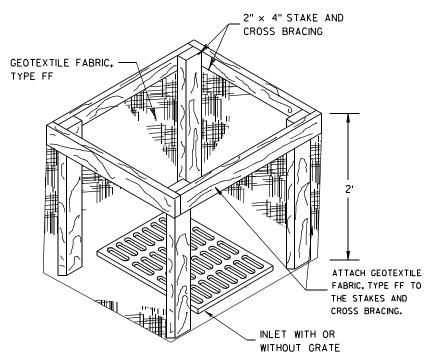
# Standard Detail Drawing List

TRAFFIC

6







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

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 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 A, B, C, AND D

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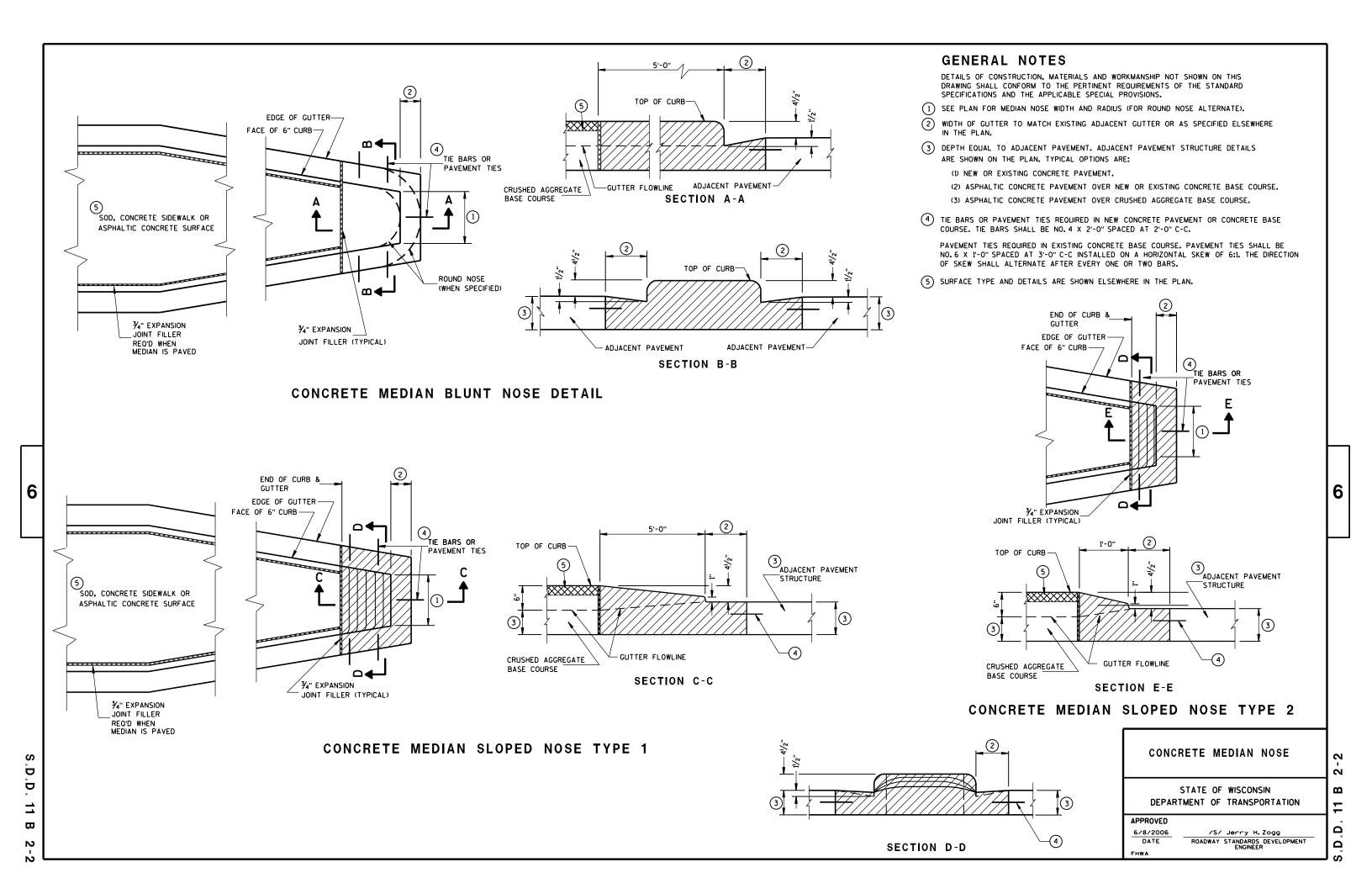
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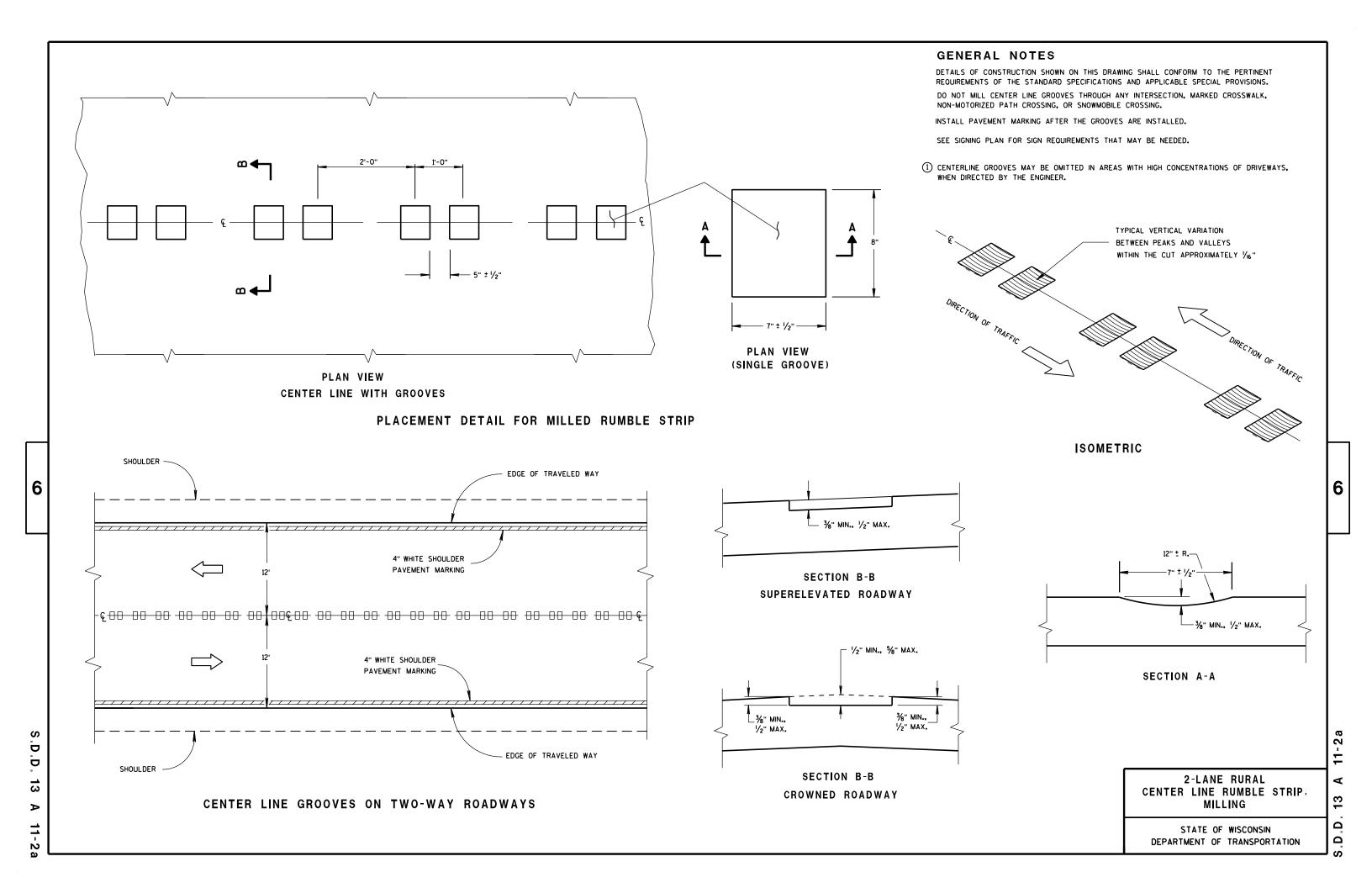
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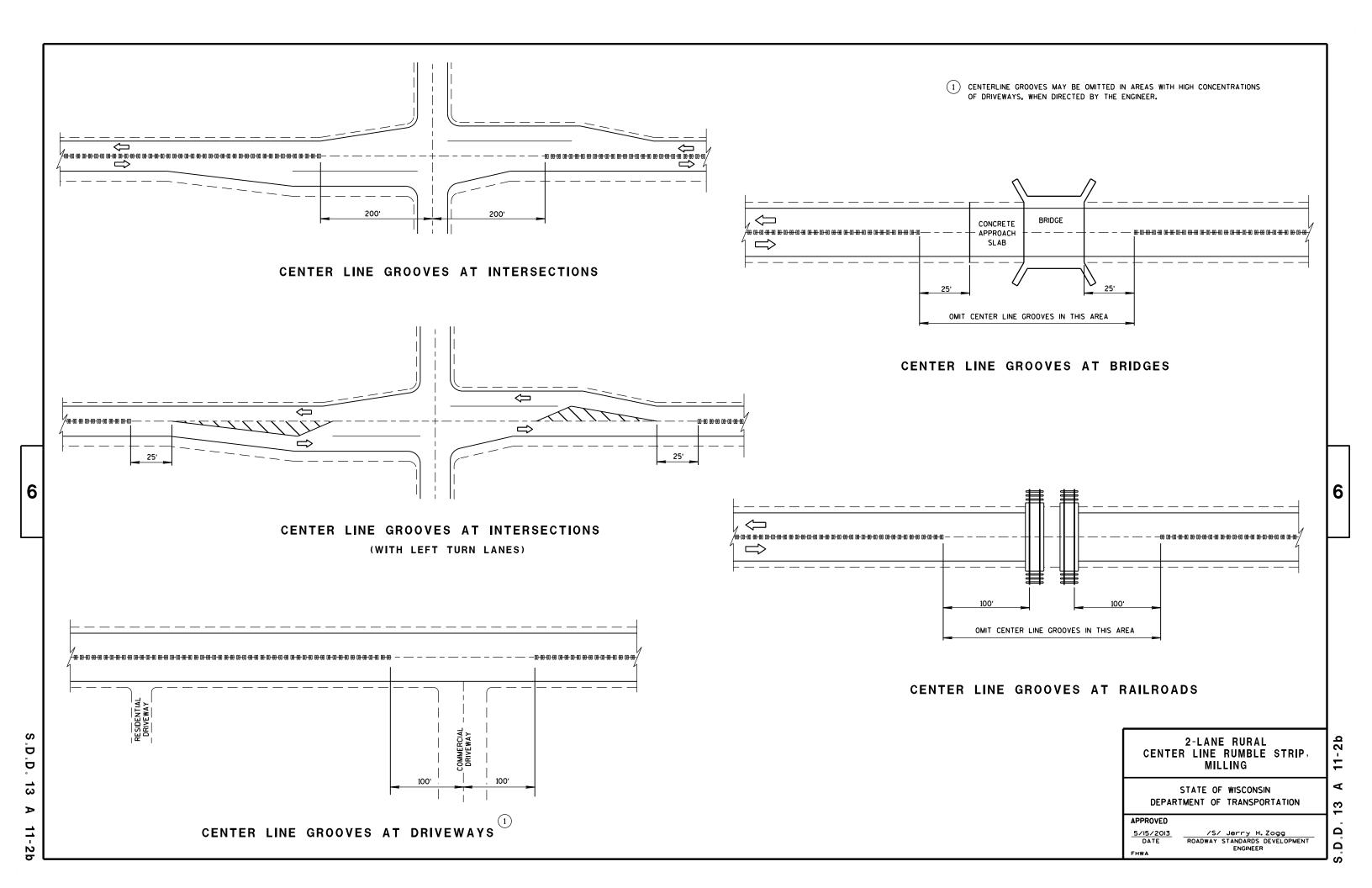
STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION

ΔPF	PRO	VED	

/S/ Beth Cannestra 10/16/02 CHIEF ROADWAY DEVELOPMENT ENGINEER



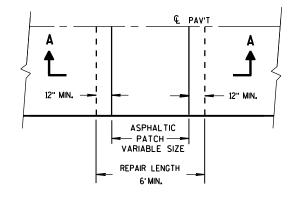




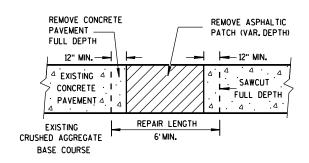
PROVIDE A 6-FOOT MINIMUM DISTANCE FROM BOUNDARIES OF CONCRETE REPAIR AREAS TO ADJACENT TRANSVERSE JOINT OR CRACK IN THE SAME LANE.

THE LENGTH OF THE REPAIRS MAY VARY FROM THE DIMENSIONS SHOWN IF THE EXISTING CONCRETE PAVEMENT IS NONDOWELED AND THE PAVEMENT IS TO BE OVERLAID AFTER REPAIRING.

1) DOWEL BARS MIGHT NOT EXIST.

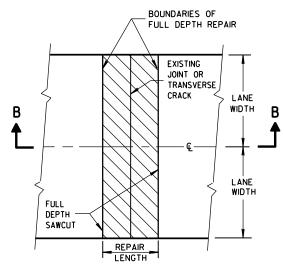


**PLAN VIEW** 

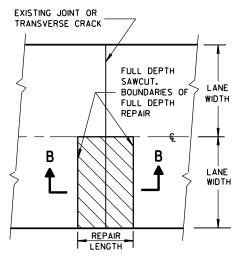


SECTION A-A

HMA PATCH REMOVAL



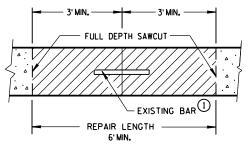
PLAN VIEW (DOUBLE LANE REPAIR)



PLAN VIEW (SINGLE LANE REPAIR)

## FULL DEPTH CONCRETE PAVEMENT REMOVAL

(SEE NOTE)



SECTION B-B
CONCRETE REMOVAL

CONCRETE PAVEMENT REPAIR
AND REPLACEMENT

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

6

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#### MAXIMUM TIE BAR PAVEMENT CLEAR COVER SPACING "S" DEPTH PAVEMENT WIDTH "D" 24' OR 26' ≥30' 42" 3"±1/2" 48" 6,6 1/2" 3 1/4"±1" 36" 7, 7 1/2" 3 ¾"±1" 39" 30" 8, 8 1/2" 9,9 1/2" 4 1/4"±1" 33" 27" 10, 10 1/2" 4 3/4"±1" 30" 24" 11, 11 1/2" 5 1/4"±1" 27" 21" 12" 5 ¾"±1" 21" 24"

1/4" RAD.

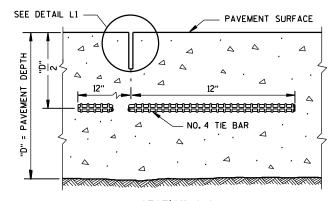
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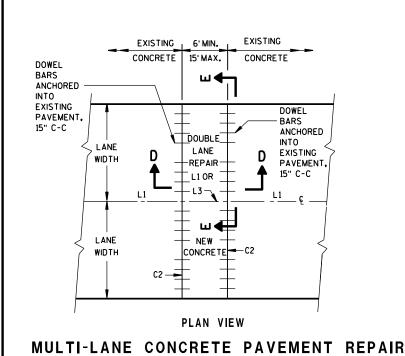
TIE BAR TABLE

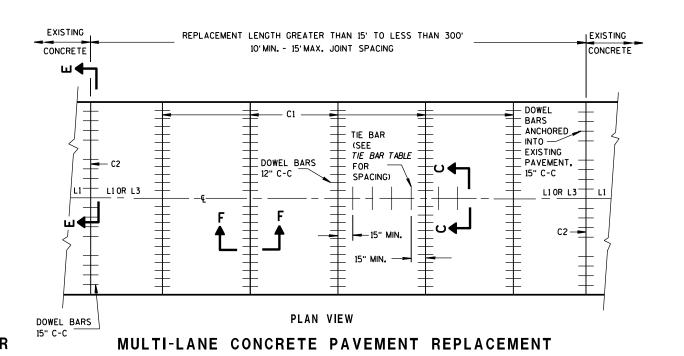


SECTION C-C SAWED LONGITUDINAL JOINT

# SEE DETAIL C1 DOWEL BARS @ 12" C-C 12" FROM PAVEMENT EDGE (SEE SIZE TABLE)

SECTION F-F **CONTRACTION JOINT** 





#### **GENERAL NOTES**

INSTALL DOWEL BARS PARALLEL TO THE PAVEMENT CENTERLINE AND PAVEMENT SURFACE.

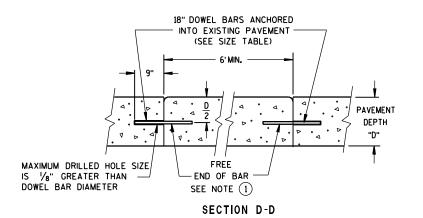
CONCRETE PAVEMENT REPAIRS OF EXISTING NONDOWELED CONCRETE PAVEMENTS DO NOT NEED TO BE DOWELED.

DO NOT SEAL OR FILL JOINTS.

ANCHOR DOWEL BARS AND TIE BARS INTO DRILLED HOLES WITH AN EPOXY.

FOR MULTI-LANE CONCRETE PAVEMENT REPLACEMENTS, PROVIDE A MINIMUM DISTANCE OF 15 INCHES FROM ALL TRANSVERSE JOINTS OR EDGES OF REPLACEMENT TO THE CENTER OF THE TIE BAR NEAREST THAT JOINT

(1) APPLY A THIN UNIFORM COATING OF SURFACE TREATMENT TO THE FREE END OF DOWEL BARS TO PREVENT BONDING.



(FOR 11' LANE WIDTH REDUCE CENTER SPACE TO 1'-O") 1'-3",1'-3" | 1'-3",1'-3",1'-3", 2'-0",1'-3",1'-3",1'-3" **PAVEMENT** DEPTH 0.0.0 "D" 18" DOWEL BARS (SEE SIZE TABLE)

DRILLED DOWEL BAR CONSTRUCTION JOINT

SECTION E-E

## PAVEMENT DEPTH, DOWEL BAR SIZE AND JOINT SPACING TABLE

AILD COIN	. OI AGIN	G INDEL
PAVEMENT DEPTH (D)	DOWEL BAR DIAMETER	CONTRACTION JOINT SPACING
5 1/2", 6",6 1/2"	NONE	12'
7",7 1/2"	1"	14'
8",8 1/2"	1 1/4"	15'
9",9 1/2"	1 1/4"	15'
10" & ABOVE	1 1/2"	15'

**CONCRETE PAVEMENT** REPAIR AND REPLACEMENT

STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION

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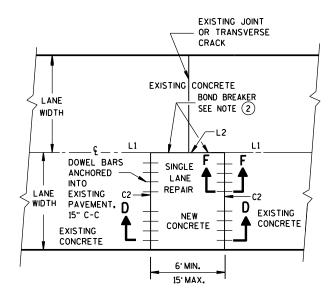
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## SECTION G-G

## TIE BARS ANCHORED INTO EXISTING PAVEMENT



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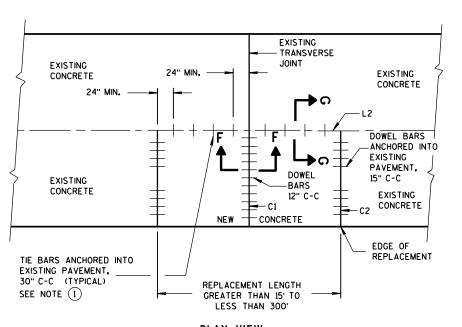
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PLAN VIEW
SINGLE LANE
CONCRETE PAVEMENT REPAIR



PLAN VIEW
SINGLE LANE
CONCRETE PAVEMENT REPLACEMENT

#### GENERAL NOTES

- (1) WITH THE APPROVAL OF THE ENGINEER, FOR SINGLE LANE PAVEMENT REPLACEMENTS LESS THAN 30 FEET IN LENGTH, THE CONTRACTOR MAY INSTALL DRILLED TIE BARS ON 6:1 SKEW HORIZONTALLY, DIRECTION OF SKEW ALTERNATING WITH EACH SUCCESSIVE BAR. DRIVE SKEWED TIE BARS TO A DEPTH OF 6 INCHES AND TO SUCH A DIAMETER AS TO PROVIDE A TIGHT DRIVEN FIT.
- 2 USE AN ENGINEER-APPROVED BOND BREAKER (E.G. RELEASE AGENT, CURING COMPOUND) FOR SINGLE LANE REPAIRS UP TO 15 FEET IN LENGTH.

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CONCRETE PAVEMENT REPAIR AND REPLACEMENT

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED

12-2013
DATE

APPROVED

/S/ Deb Bischoff
PAVEMENT POLICY & DESIGN ENGINEER

FHWA

S/ Deb Bischoff T POLICY & DESIGN ENGINEER

## TYPICAL SIDEROAD APPROACH WARNING SIGN DETAIL

## GENERAL NOTES

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15

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

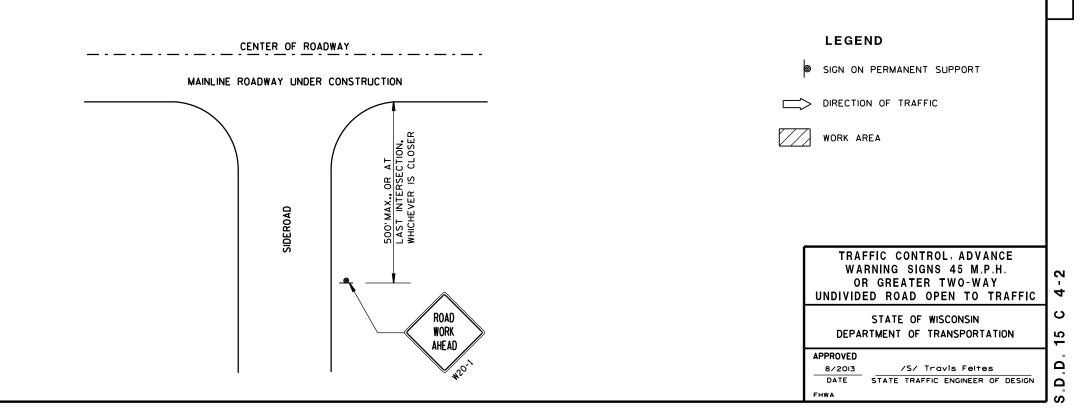
THE SPACING BETWEEN TRAFFIC CONTROL SIGNS SHOULD BE ADJUSTED TO NOT CONFLICT WITH AND SHOULD PROVIDE A MINIMUM OF 200 FEET (500 FEET DESIRABLE) CLEARANCE TO EXISTING SIGNS THAT WILL REMAIN IN PLACE.

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

SIGNS THAT WILL BE IN PLACE LESS THAN 7 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 RE-ESTABLISHED.

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



6

## **GENERAL NOTES**

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

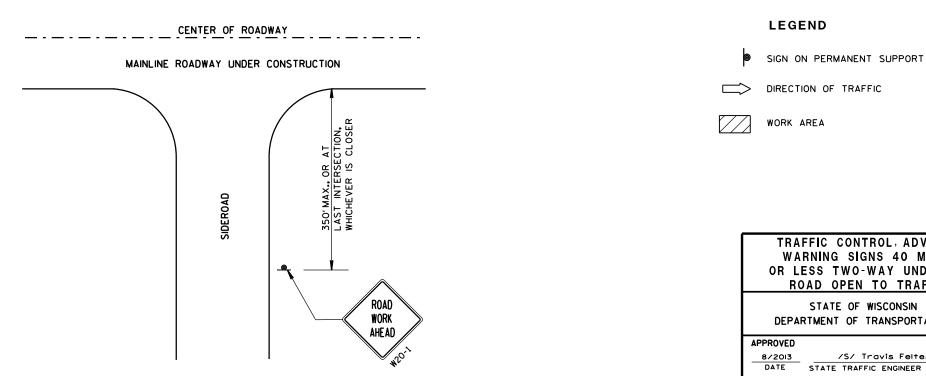
THE SPACING BETWEEN TRAFFIC CONTROL SIGNS SHOULD BE ADJUSTED TO NOT CONFLICT WITH AND SHOULD PROVIDE A DESIRABLE MINIMUM OF 200 FEET CLEARANCE TO EXISTING SIGNS THAT WILL REMAIN IN PLACE.

ALL SIGNS ARE 48"×48" UNLESS OTHERWISE NOTED. IF NECESSARY DUE TO SPACE CONSTRAINTS, 36"x36" SIGNS MAY BE USED INSTEAD OF 48"x48"

SIGNS THAT WILL BE IN PLACE LESS THAN 7 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 RE-ESTABLISHED.

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



TRAFFIC CONTROL, ADVANCE WARNING SIGNS 40 M.P.H. OR LESS TWO-WAY UNDIVIDED ROAD OPEN TO TRAFFIC STATE OF WISCONSIN

DEPARTMENT OF TRANSPORTATION

/S/ Travis Feltes STATE TRAFFIC ENGINEER OF DESIGN

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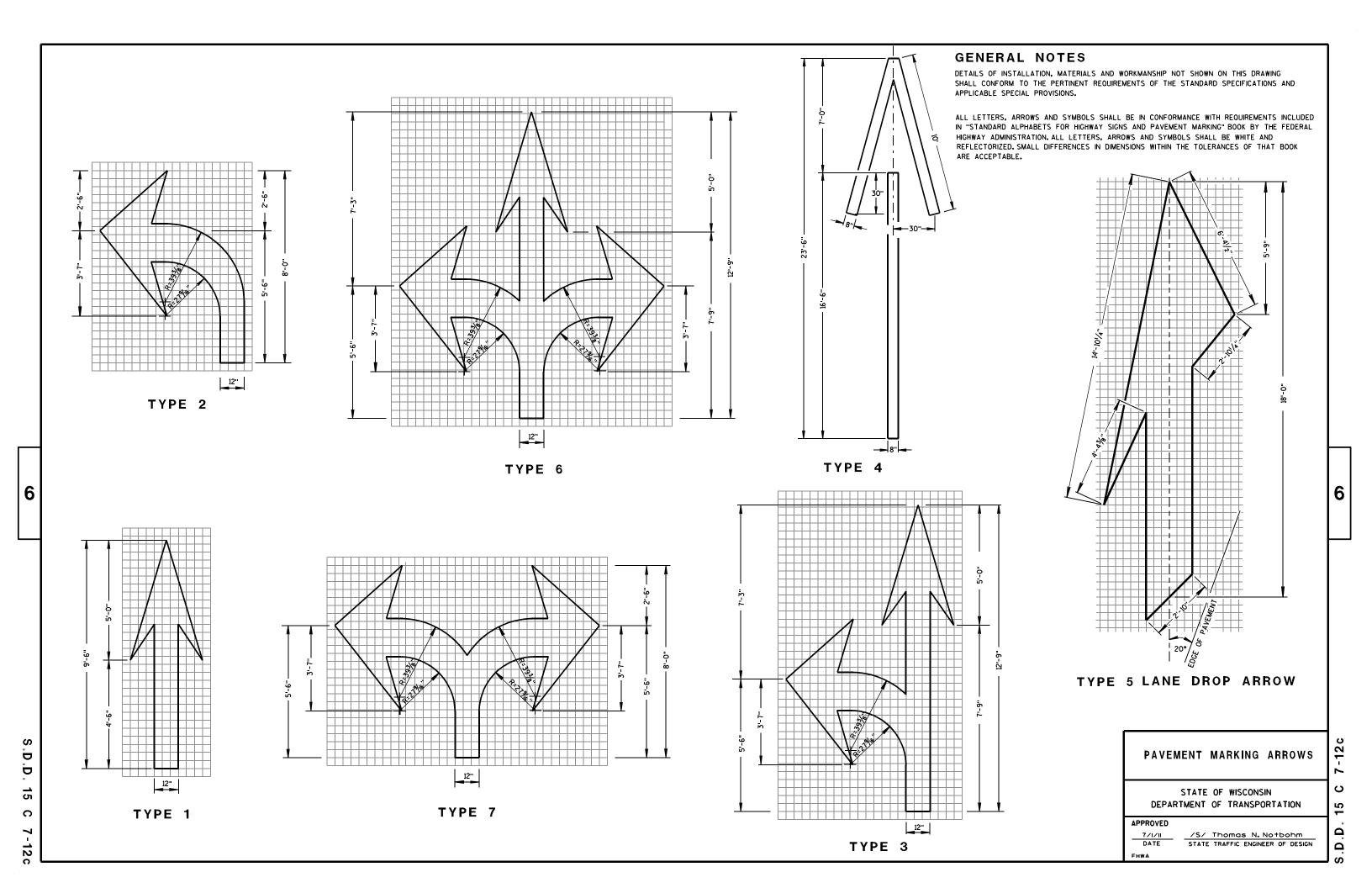
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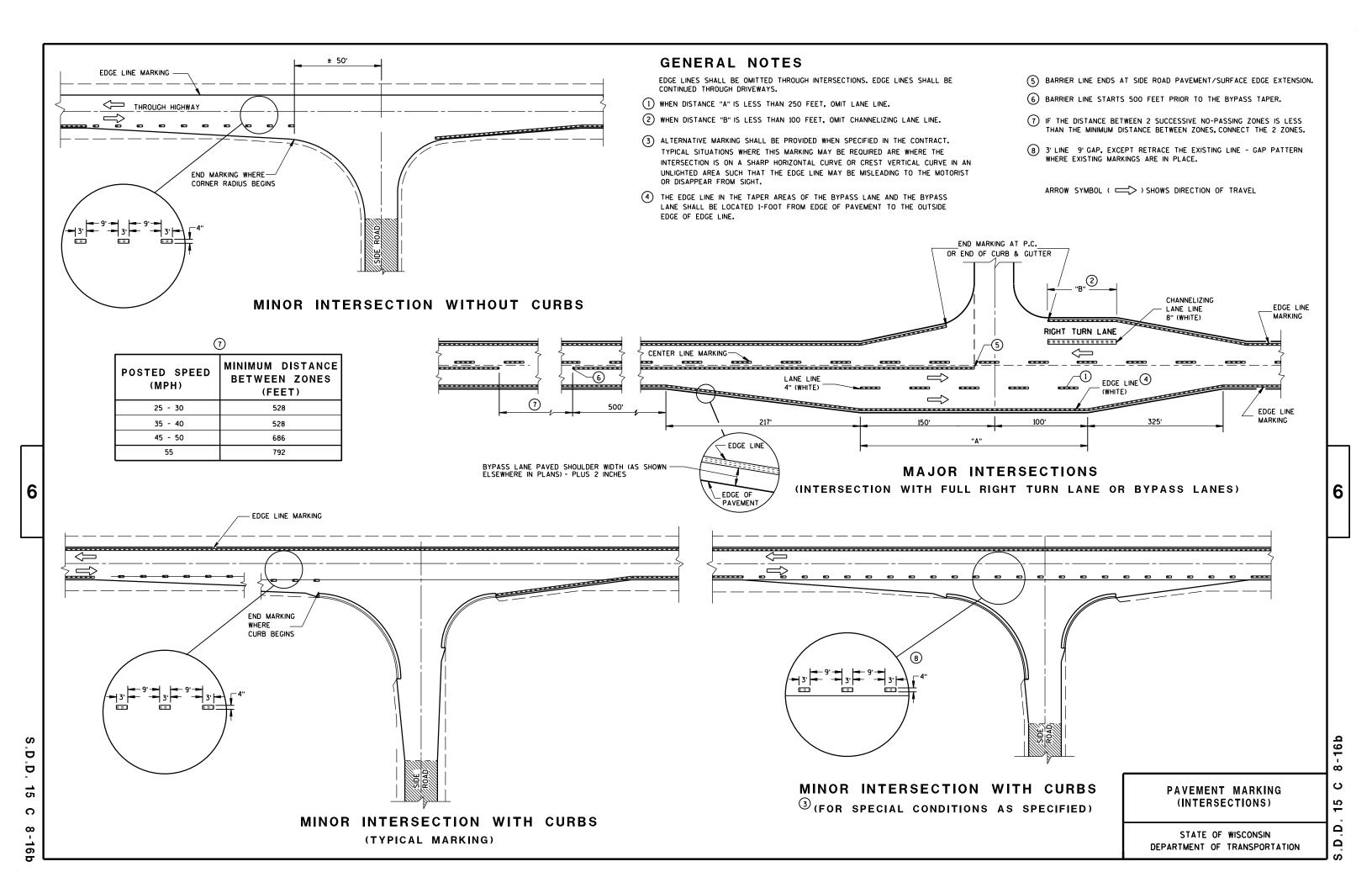
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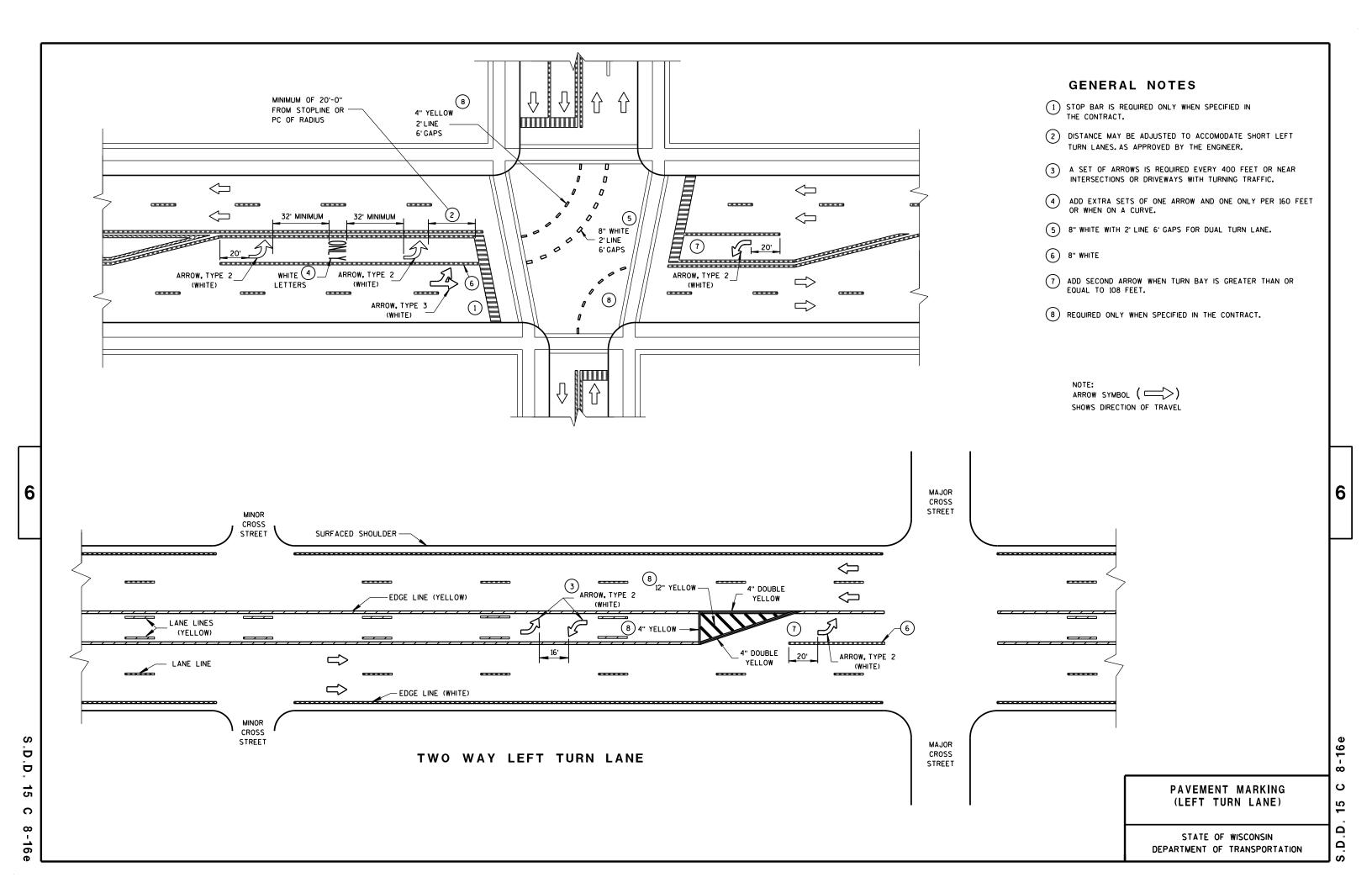
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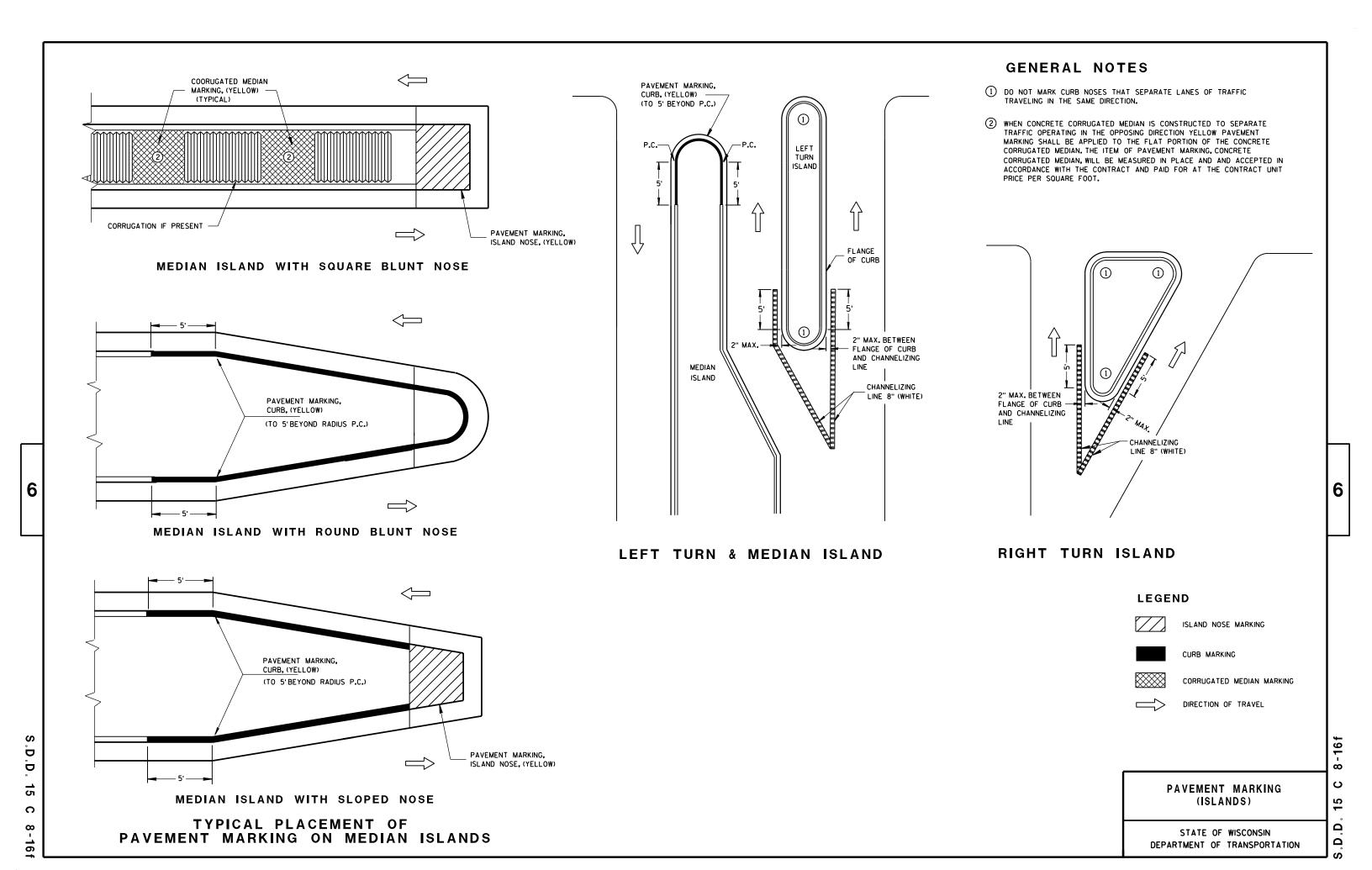
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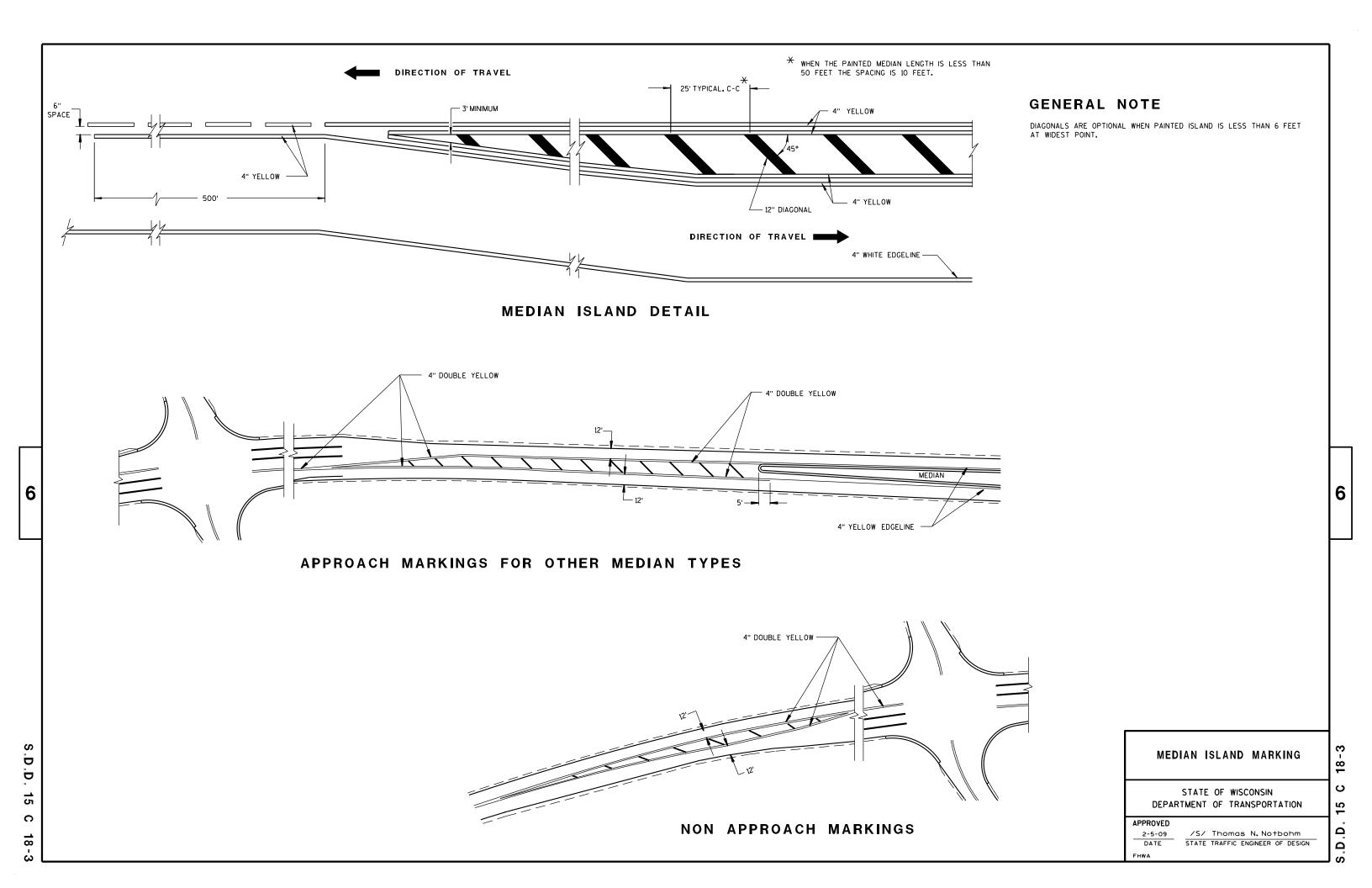


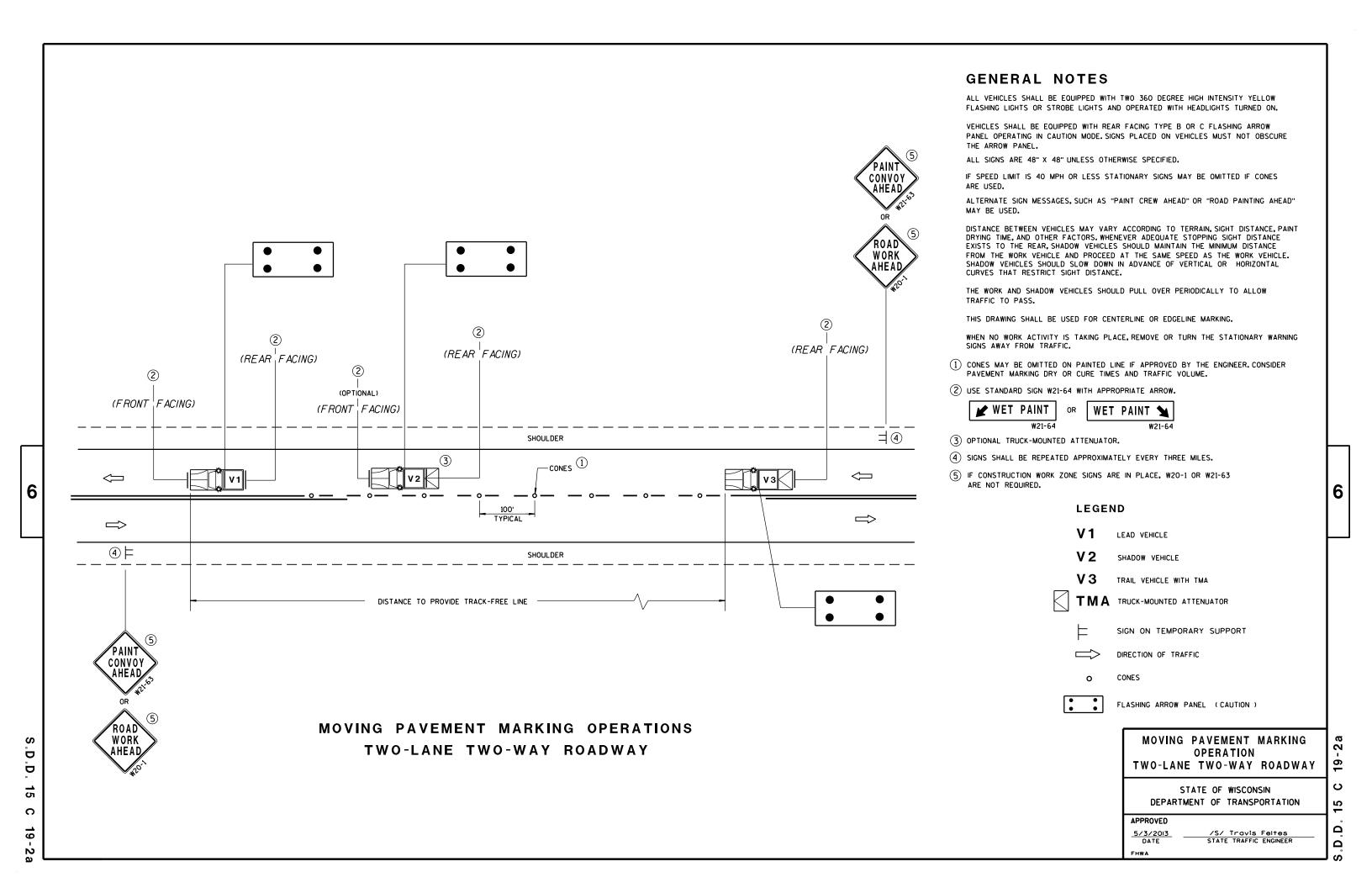


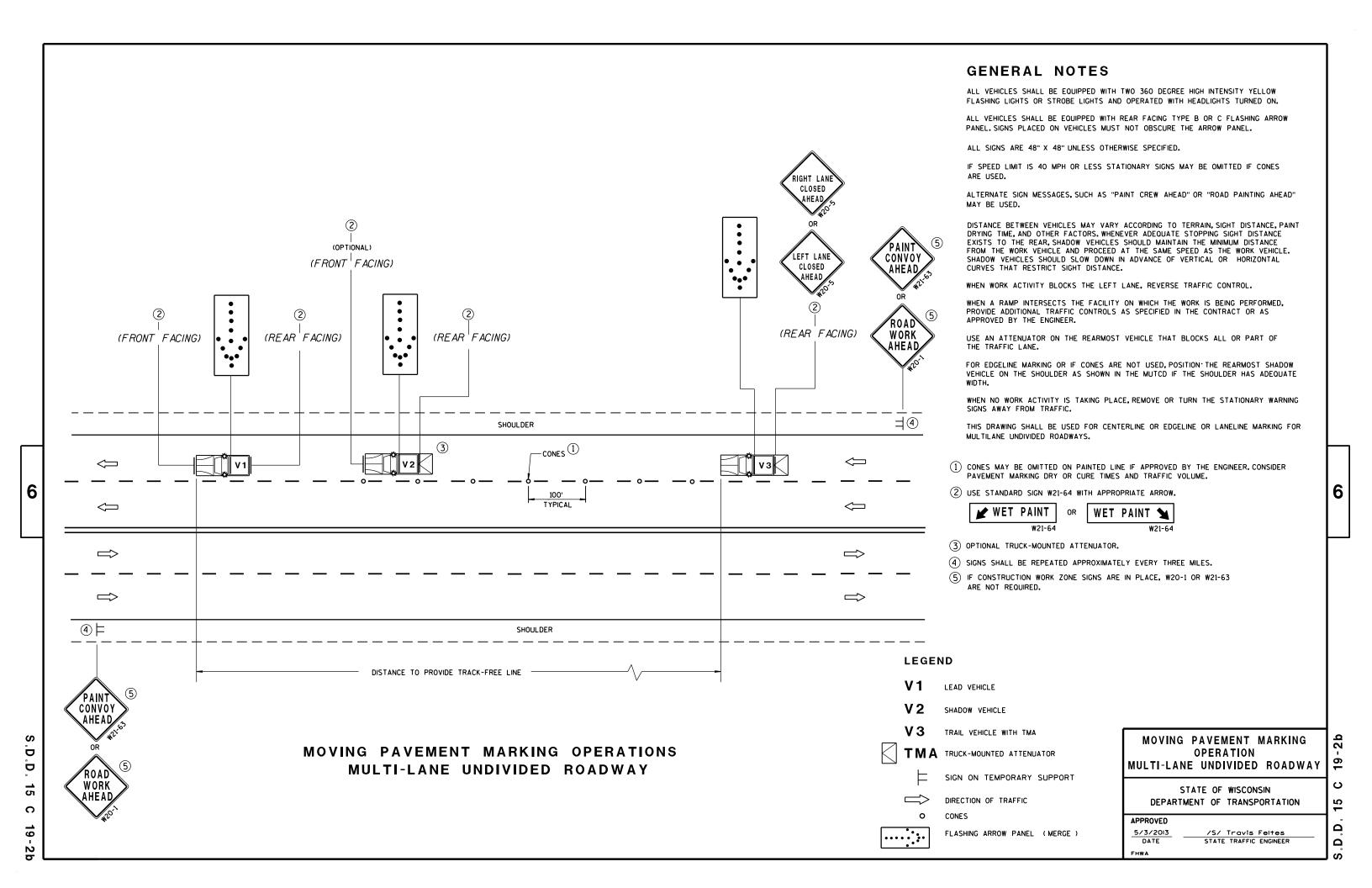


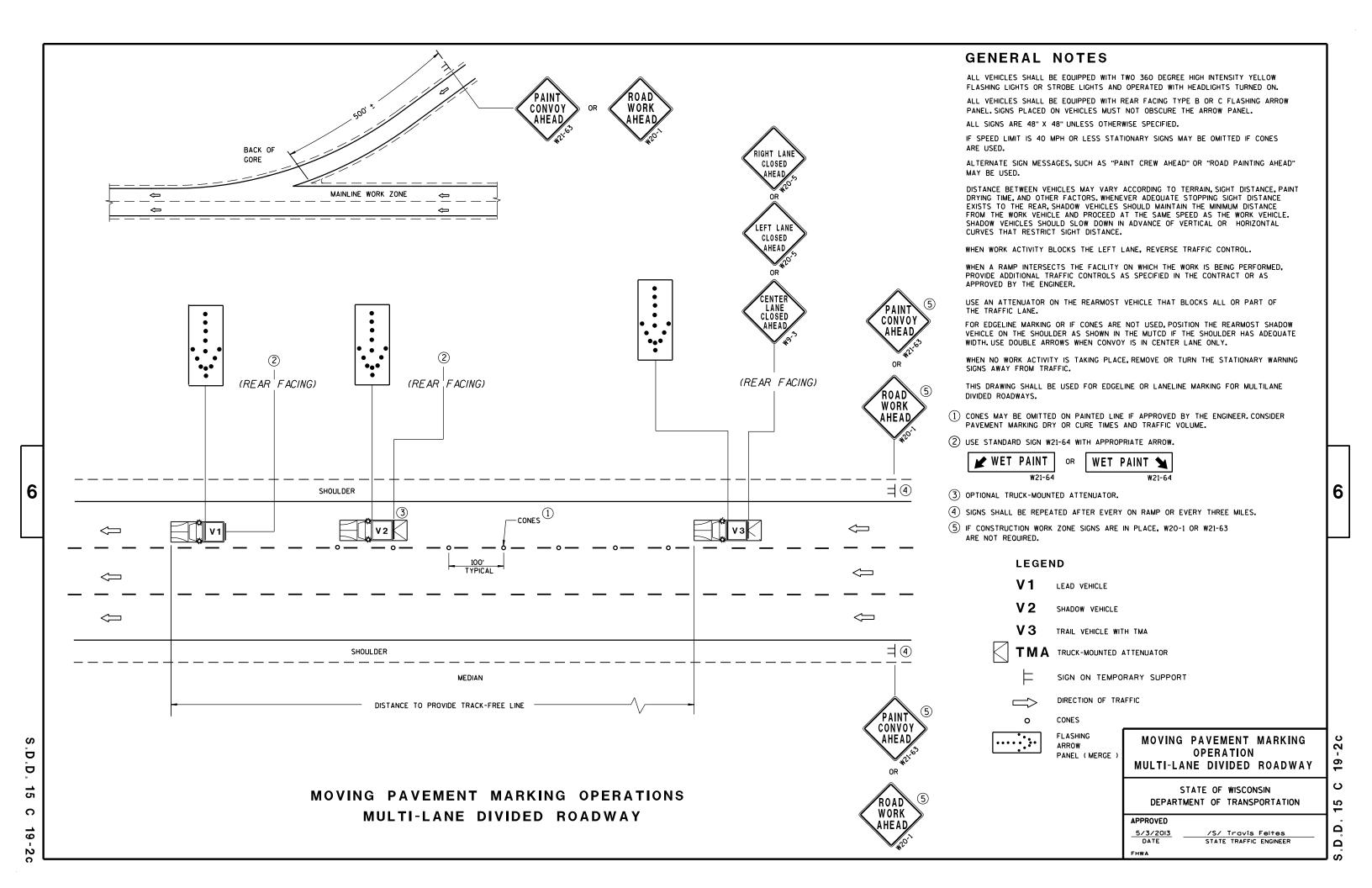


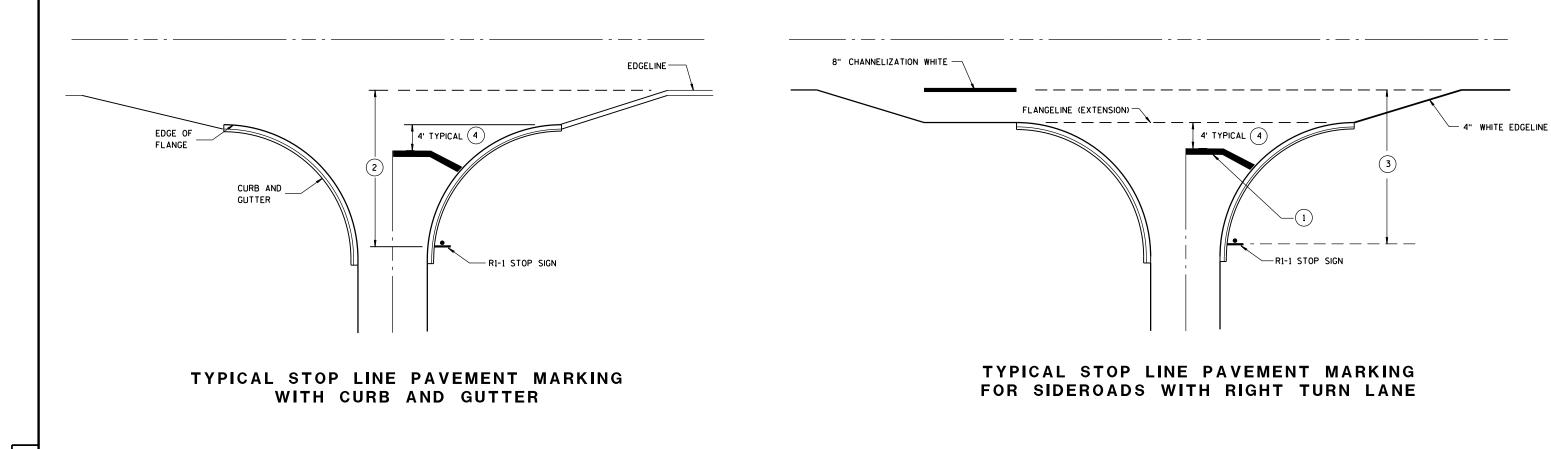


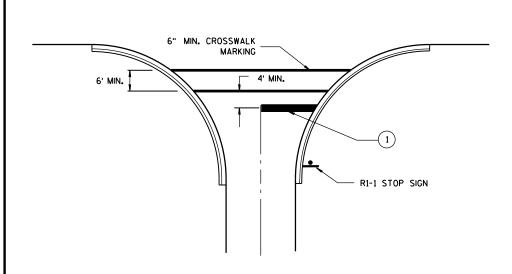




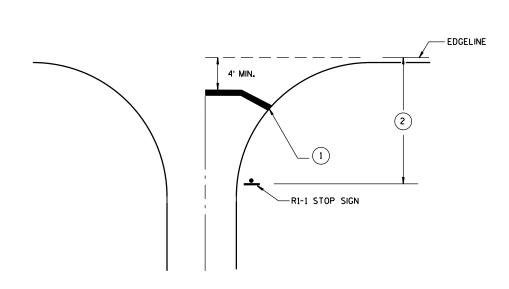








TYPICAL STOP LINE PAVEMENT MARKING FOR SIDEROADS WITH CROSSWALK MARKING



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 EDGELINE THAN NO STOP LINE IS REQUIRED.
- (3) IF STOP SIGN IS LESS THAN OR EQUAL TO 30 FEET FROM THE FLANGELINE EXTENSION THAN NO STOP LINE IS REQUIRED.
- 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	/S/ Travis Feltes
DATE	STATE TRAFFIC ENGINEER
FHWA	

.D.D. 15 C 33-1

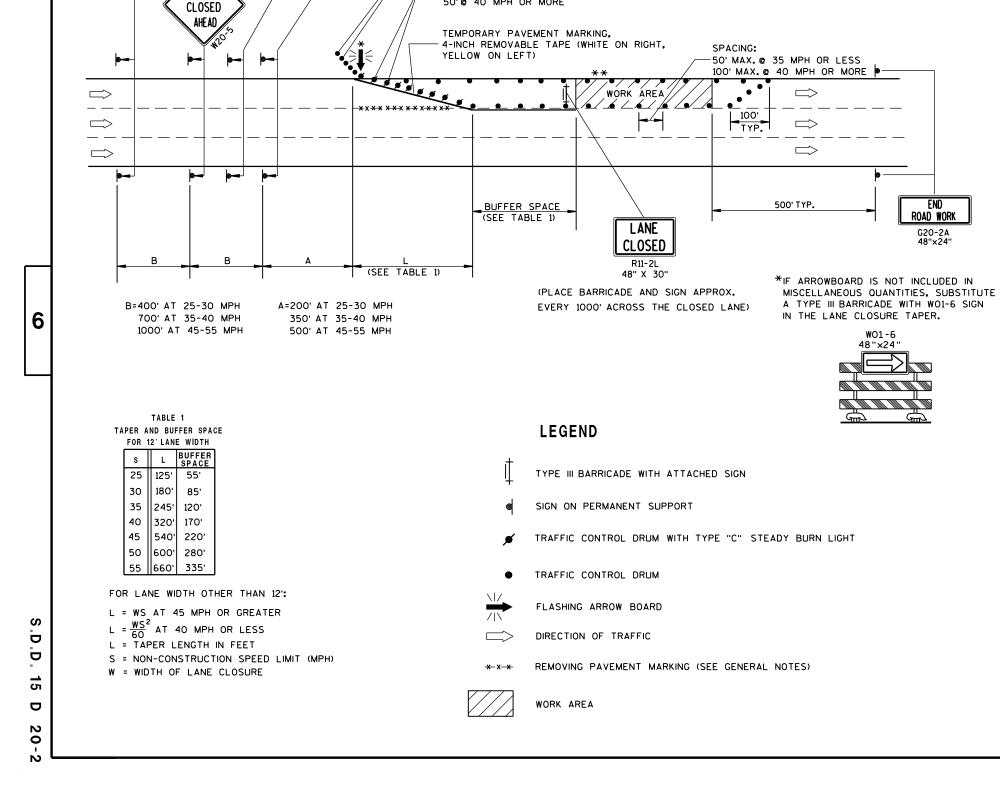
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(5) DRUMS SPACED @ 10'

INTERVALS AS NEEDED IN

FRONT OF ARROW BOARD

25' @ 35 MPH OR LESS 50' @ 40 MPH OR MORE

SPACING:

ROAD WORK

NEXT\_\_\_MILES

G20-1

60" X 24"

AHEAD

### **GENERAL NOTES**

\*\*THE LINE OF DRUMS SHOWN ALONG THE MEDIAN/CENTERLINE

ADJACENT TO THE WORK AREA. FOR THIS CONDITION INSTALL

W20-1 "ROAD WORK AHEAD" SIGN FOR OPPOSING DIRECTION OF

IS REQUIRED ONLY WHERE THERE IS OPPOSING TRAFFIC

TRAFFIC. IN ADVANCE OF THE WORK AREA.

THIS LANE CLOSURE DETAIL IS TYPICAL FOR CLOSING THE LEFT LANE, FOR A RIGHT LANE CLOSURE, REVERSE THE TRAFFIC CONTROL.

THIS DETAIL MAY BE USED FOR ROADWAYS WITH EITHER TWO OR THREE LANES IN EACH DIRECTION.

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

ALL SIGNS ARE 48"×48" UNLESS OTHERWISE NOTED. IF NECESSARY DUE TO SPACE CONSTRAINTS IN URBAN AREAS, 36" X 36" SIGNS MAY BE USED IF APPROVED BY DISTRICT TRAFFIC UNIT.

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

SIGNS THAT WILL BE IN PLACE LESS THAN 7 CONTINUOUS DAYS AND NIGHTS, OR THAT WILL BE PLACED IN A CLOSED LANE, MAY BE MOUNTED ON PORTABLE SUPPORTS.

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.

REMOVE PAVEMENT MARKINGS AND PLACE TEMPORARY PAVEMENT MARKING, REMOVABLE TAPE IF LANE CLOSURE IS TO BE IN PLACE FOR 4 OR MORE CONTINUOUS DAYS AND NIGHTS.

ON UNDIVIDED ROADWAYS, OMIT THE SIGNS SHOWN ON LEFT SIDE OF ROAD.

W2O-1, G2O-1 AND G2O-2A SIGNS ARE NOT REQUIRED IF THE LANE CLOSURE IS WITHIN A LARGER WORK ZONE WHERE THESE SIGNS ARE ALREADY PRESENT.

OMIT G20-1 SIGNS IF LENGTH OF WORK AREA IS 2 MILES OR LESS.

CONSIDER GEOMETRICS WHEN LOCATING SIGNS AND ARROWBOARDS SO THE APPROACHING DRIVER HAS A CLEAR VIEW OF THE ARROWBOARDS AND LANE CLOSURE DRUMS.

PLACE THE ARROWBOARD AS CLOSE AS POSSIBLE TO THE BEGINNING OF THE LANE CLOSURE TAPER, PREFERABLY ON THE SHOULDER OR TERRACE.

CHANNELIZING DEVICES PLACED ADJACENT TO WORK AREA SHALL BE PULLED BACK FROM THE TRAVEL LANE WHEN WORK IS NOT IN PROGRESS.

BARRICADES IN A CLOSED LANE THAT MUST BE MOVED FOR A WORK OPERATION SHALL BE IMMEDIATELY RE-ESTABLISHED UPON COMPLETION OF THE OPERATION OR, FOR CONTINUING OPERATIONS, AT THE END OF EACH WORKING DAY.

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

TRAFFIC CONTROL, SINGLE LANE CLOSURE, NON-FREEWAY/EXPRESSWAY

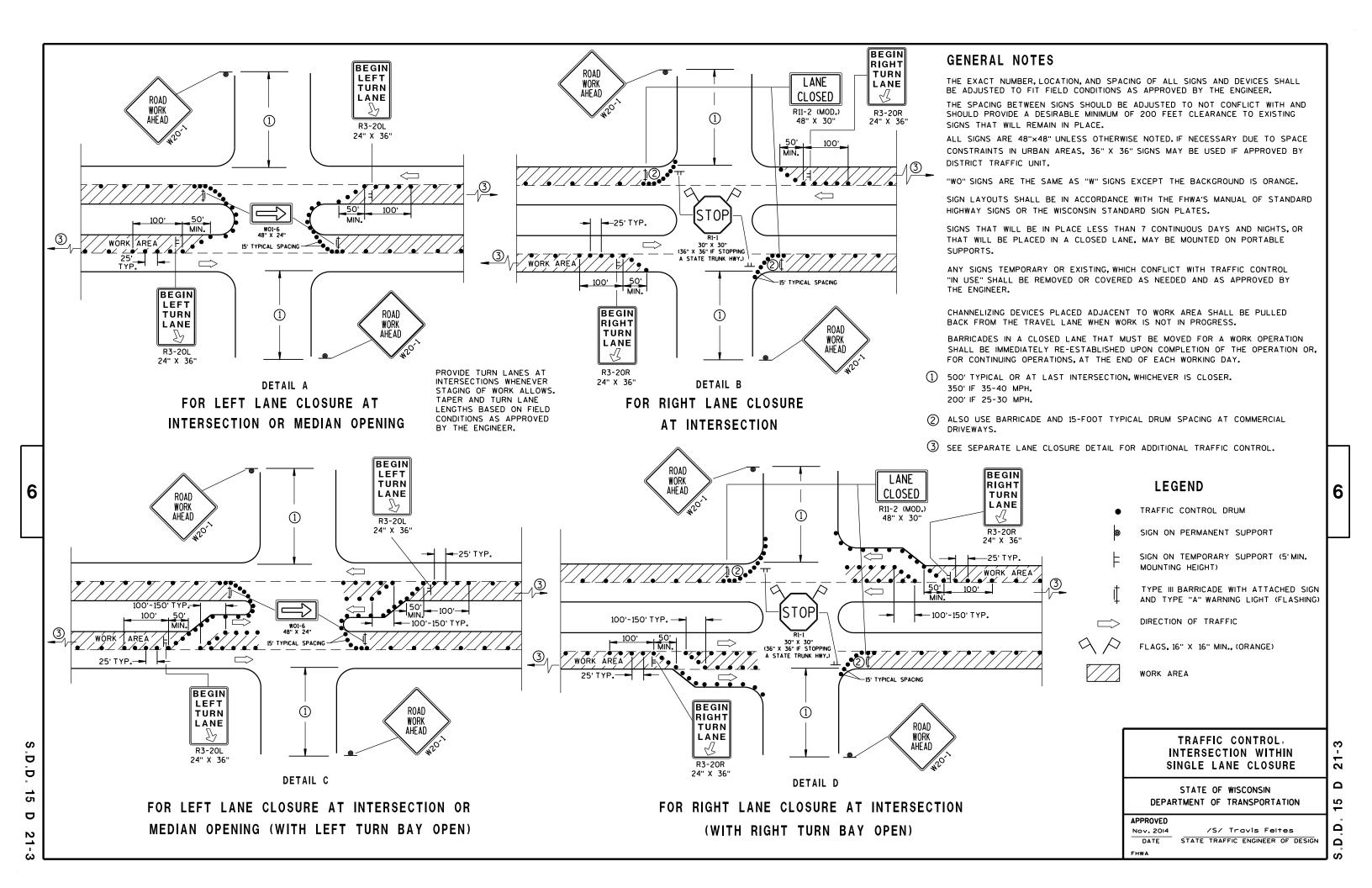
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED

8/2013 /S/ Travis Feites

DATE TRAFFIC ENGINEER OF DESIGN

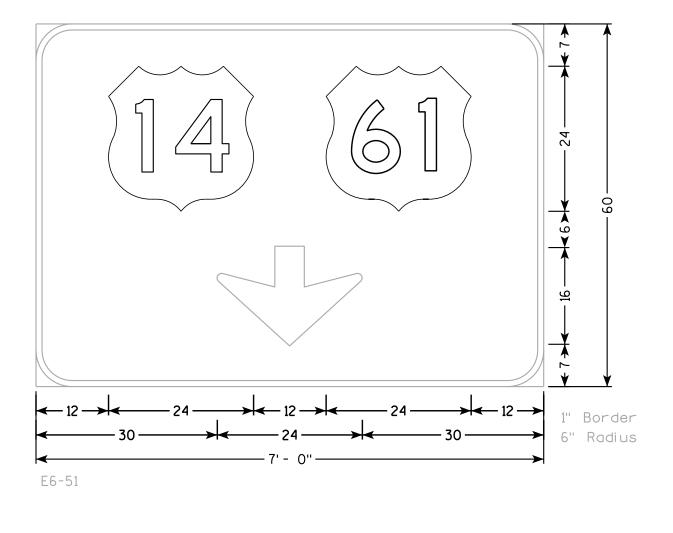
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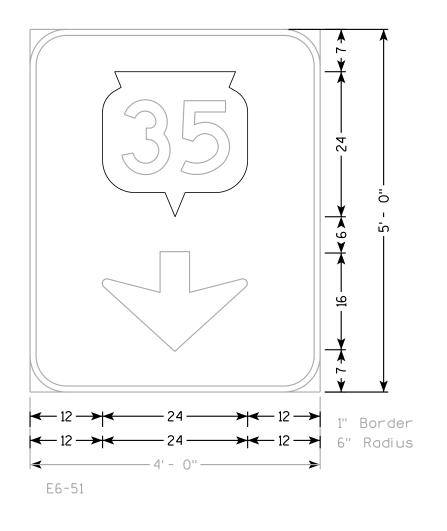


## NOTES

- 1. All Signs ar Eype I Type SH Reflective
- 2. Color:

Background - Green Message - White





PLOT NAME :

PROJECT NO: 5163-07-60 HWY: USH 14 COUNTY:LA CROSSE PERMANENT SIGNING SHEET NO: **E** 

THORIZONTAL DIMENSION

Ø ♥	2.5 ft.	3 ft.	3.5 ft.	4 ft.	4.5 ft.	5 ft.	5.5 ft.	6 ft.	6.5 ft.	7 ft.	7.5 ft.	8 ft.	8.5 ft.	9 ft.	9.5 ft.	10 ft.	10.5 ft.	11 ft.	11.5 ft.	12 ft.	12.5 ft.	13 ft.	13.5 ft.	14 ft.	14.5 ft.	15 ft.	15.5 ft.	16 ft.
10 ft.	25 Sq. Ft	30 Sq. Ft	35 Sq. Ft	40 Sq. Ft	45 Sq. Ft	50 Sq. Ft	55 Sq. Ft	60 Sq. Ft	65 Sq. Ft	70 Sq. Ft	75 Sq. Ft	80 Sq. Ft	85 Sq. Ft	90 Sq. Ft	95 Sq. Ft	100 Sq. Ft	105 Sq. Ft	110 Sq. Ft	115 Sq. Ft	120 Sq. Ft	125 Sq. Ft	130 Sq. Ft	135 Sq. Ft	140 Sq. Ft	145 Sq. Ft	150 Sq. Ft	155 Sq. Ft	160 Sq. Ft
11 ft.	27.5 Sq. Ft	33 Sq. Ft	38.5 Sq. Ft	44 Sq. Ft	49.5 Sq. Ft	55 Sq. Ft	60.5 Sq. Ft	66 Sq. Ft	71.5 Sq. Ft	77 Sq. Ft	82.5 Sq. Ft	88 Sq. Ft	93.5 Sq. Ft	99 Sq. Ft	104.5 Sq. Ft	110 Sq. Ft	115.5 Sq. Ft	121 Sq. Ft	126.5 Sq. Ft	132 Sq. Ft	137.5 Sq. Ft	143 Sq. Ft	148.5 Sq. Ft	154 Sq. Ft	159.5 Sq. Ft	165 Sq. Ft	170.5 Sq. Ft	176 Sq. Ft
12 ft.	30 Sq. Ft	36 Sq. Ft	42 Sq. Ft	48 Sq. Ft	54 Sq. Ft	60 Sq. Ft	66 Sq. Ft	72 Sq. Ft	78 Sq. Ft	84 Sq. Ft	90 Sq. Ft	96 Sq. Ft	102 Sq. Ft	108 Sq. Ft	114 Sq. Ft	120 Sq. Ft	126 Sq. Ft	132 Sq. Ft	138 Sq. Ft	144 Sq. Ft	150 Sq. Ft	156 Sq. Ft	162 Sq. Ft	168 Sq. Ft	174 Sq. Ft	180 Sq. Ft	186 Sq. Ft	192 Sq. Ft
13 ft.	32.5 Sq. Ft	39 Sq. Ft	45.5 Sq. Ft	52 Sq. Ft	58.5 Sq. Ft	65 Sq. Ft	71.5 Sq. Ft	78 Sq. Ft	84.5 Sq. Ft	91 Sq. Ft	97.5 Sq. Ft	104 Sq. Ft	110.5 Sq. Ft	117 Sq. Ft	123.5 Sq. Ft	130 Sq. Ft	136.5 Sq. Ft	143 Sq. Ft	149.5 Sq. Ft	156 Sq. Ft	162.5 Sq. Ft	169 Sq. Ft	175.5 Sq. Ft	182 Sq. Ft	188.5 Sq. Ft	195 Sq. Ft	201.5 Sq. Ft	208 Sq. Ft
14 ft.	35 Sq. Ft	42 Sq. Ft	49 Sq. Ft	56 Sq. Ft	63 Sq. Ft	70 Sq. Ft	77 Sq. Ft	84 Sq. Ft	91 Sq. Ft	98 Sq. Ft	105 Sq. Ft	112 Sq. Ft	119 Sq. Ft	126 Sq. Ft	133 Sq. Ft	140 Sq. Ft	147 Sq. Ft	154 Sq. Ft	161 Sq. Ft	168 Sq. Ft	175 Sq. Ft	182 Sq. Ft	189 Sq. Ft	196 Sq. Ft	203 Sq. Ft	210 Sq. Ft	217 Sq. Ft	224 Sq. Ft
15 ft.	37.5 Sq. Ft	45 Sq. Ft	52.5 Sq. Ft	60 Sq. Ft	67.5 Sq. Ft	75 Sq. Ft	82.5 Sq. Ft	90 Sq. Ft	97.5 Sq. Ft	105 Sq. Ft	112.5 Sq. Ft	120 Sq. Ft	127.5 Sq. Ft	135 Sq. Ft	142.5 Sq. Ft	150 Sq. Ft	157.5 Sq. Ft	165 Sq. Ft	172.5 Sq. Ft	180 Sq. Ft	187.5 Sq. Ft	195 Sq. Ft	202.5 Sq. Ft	210 Sq. Ft	217.5 Sq. Ft	225 Sq. Ft	232.5 Sq. Ft	240 Sq. Ft
16 ft.	40 Sq. Ft	48 Sq. Ft	56 Sq. Ft	64 Sq. Ft	72 Sq. Ft	80 Sq. Ft	88 Sq. Ft	96 Sq. Ft	104 Sq. Ft	112 Sq. Ft	120 Sq. Ft	128 Sq. Ft	136 Sq. Ft	144 Sq. Ft	152 Sq. Ft	160 Sq. Ft	168 Sq. Ft	176 Sq. Ft	184 Sq. Ft	192 Sq. Ft	200 Sq. Ft	208 Sq. Ft	216 Sq. Ft	224 Sq. Ft	232 Sq. Ft	240 Sq. Ft	248 Sq. Ft	256 Sq. Ft
17 ft.	42.5 Sq. Ft	51 Sq. Ft	59.5 Sq. Ft	68 Sq. Ft	76.5 Sq. Ft	85 Sq. Ft	93.5 Sq. Ft	102 Sq. Ft	110.5 Sq. Ft	119 Sq. Ft	127.5 Sq. Ft	136 Sq. Ft	144.5 Sq. Ft	153 Sq. Ft	161.5 Sq. Ft	170 Sq. Ft	178.5 Sq. Ft	187 Sq. Ft	195.5 Sq. Ft	204 Sq. Ft	212.5 Sq. Ft	221 Sq. Ft	229.5 Sq. Ft	238 Sq. Ft	246.5 Sq. Ft	255 Sq. Ft	263.5 Sq. Ft	272 Sq. Ft
18 ft.	45 Sq. Ft	54 Sq. Ft	63 Sq. Ft	72 Sq. Ft	81 Sq. Ft	90 Sq. Ft	99 Sq. Ft	108 Sq. Ft	117 Sq. Ft	126 Sq. Ft	135 Sq. Ft	144 Sq. Ft	153 Sq. Ft	162 Sq. Ft	171 Sq. Ft	180 Sq. Ft	189 Sq. Ft	198 Sq. Ft	207 Sq. Ft	216 Sq. Ft	225 Sq. Ft	234 Sq. Ft	243 Sq. Ft	252 Sq. Ft	261 Sq. Ft	270 Sq. Ft	279 Sq. Ft	288 Sq. Ft
19 ft.	47.5 Sq. Ft	57 Sq. Ft	66.5 Sq. Ft	76 Sq. Ft	85.5 Sq. Ft	95 Sq. Ft	104.5 Sq. Ft	114 Sq. Ft	123.5 Sq. Ft	133 Sq. Ft	142.5 Sq. Ft	152 Sq. Ft	161.5 Sq. Ft	171 Sq. Ft	180.5 Sq. Ft	190 Sq. Ft	199.5 Sq. Ft	209 Sq. Ft	218.5 Sq. Ft	228 Sq. Ft	237.5 Sq. Ft	247 Sq. Ft	256.5 Sq. Ft	266 Sq. Ft	275.5 Sq. Ft	285 Sq. Ft	294.5 Sq. Ft	304 Sq. Ft
20 ft.	50 Sq. Ft	60 Sq. Ft	70 Sq. Ft	80 Sq. Ft	90 Sq. Ft	100 Sq. Ft	110 Sq. Ft	120 Sq. Ft	130 Sq. Ft	140 Sq. Ft	150 Sq. Ft	160 Sq. Ft	170 Sq. Ft	180 Sq. Ft	190 Sq. Ft	200 Sq. Ft	210 Sq. Ft	220 Sq. Ft	230 Sq. Ft	240 Sq. Ft	250 Sq. Ft	260 Sq. Ft	270 Sq. Ft	280 Sq. Ft	290 Sq. Ft	300 Sq. Ft	310 Sq. Ft	320 Sq. Ft
21 ft.	52.5 Sq. Ft	63 Sq. Ft	73.5 Sq. Ft	84 Sq. Ft	94.5 Sq. Ft	105 Sq. Ft	115.5 Sq. Ft	126 Sq. Ft	136.5 Sq. Ft	147 Sq. Ft	157.5 Sq. Ft	168 Sq. Ft	178.5 Sq. Ft	189 Sq. Ft	199.5 Sq. Ft	210 Sq. Ft	220.5 Sq. Ft	231 Sq. Ft	241.5 Sq. Ft	252 Sq. Ft	262.5 Sq. Ft	273 Sq. Ft	283.5 Sq. Ft	294 Sq. Ft	304.5 Sq. Ft	315 Sq. Ft	325.5 Sq. Ft	336 Sq. Ft
	•		Type "A" 1.2 C\ 68 LBs E	Y Conc.									Type "B" (2 Posts) 1.6 CY Conc. 98 LBs Bar Steel								1.8 C	C" (2 Posts) Y Conc. s Bar Steel			Type "D" (2 Posts 1.8 CY Conc. 112 LBs Bar Steel	,	2.7 C	" (3 Posts) Y Conc. Bar Steel

STEEL POST SIZE

"A" - W10" x 12"

"B" - W12" x 16"

"C" - W12" x 19"

"D" - W12 x 22"

DETERMINATION OF HIGH STRENGTH
STRUCTURAL STEEL SIGN SUPPORT TYPE

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew & Rawh

for State Traffic Engineer

DATE 3/03/10 PLATE NO. \_A3-2.2

SHEET NO:

FILE NAME : C:\users\PROJECTS\tr\_stdplate\A32.DGN

PROJECT NO:

PLOT DATE: 05-MAR-2010 10:10

PLOT BY • dition

WISDOT/CADDS SHEET 42

VERTICAL DIN	MENSION 👄
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				Type "A" (2	2 Posts)								_																
<b>⊘</b> ′5	<b>₹</b> 2	2.5 ft.	3 ft.	3.5 ft.	4 ft.	4.5 ft.	5 ft.	5.5 ft.	6 ft.	6.5 ft.	7 ft.	7.5 ft.	8 ft.	8.5 ft.	9 ft.	9.5 ft.	10 ft.	10.5 ft.	11 ft.	11.5 ft.	12 ft.	12.5 ft.	13 ft.	13.5 ft.	14 ft.	14.5 ft.	15 ft.	15.5 ft.	16 ft.
22 f	<b>t.</b> 55	55 Sq. Ft	66 Sq. Ft	77 Sq. Ft	88 Sq. Ft	99 Sq. Ft	110 Sq. Ft	121 Sq. Ft	132 Sq. Ft	143 Sq. Ft	154 Sq. Ft	165 Sq. Ft	176 Sq. Ft	187 Sq. Ft	198 Sq. Ft	209 Sq. Ft	220 Sq. Ft	231 Sq. Ft	242 Sq. Ft	253 Sq. Ft	264 Sq. Ft	275 Sq. Ft	286 Sq. Ft	297 Sq. Ft	308 Sq. Ft	319 Sq. Ft	330 Sq. Ft	341 Sq. Ft	352 Sq.
23 f	<b>t.</b> 57.	7.5 Sq. Ft	69 Sq. Ft	80.5 Sq. Ft	92 Sq. Ft	103.5 Sq. Ft	115 Sq. Ft	126.5 Sq. Ft	138 Sq. Ft	149.5 Sq. Ft	161 Sq. Ft	172.5 Sq. Ft	184 Sq. Ft	195.5 Sq. Ft	207 Sq. Ft	218.5 Sq. Ft	230 Sq. Ft	241.5 Sq. Ft	253 Sq. Ft	264.5 Sq. Ft	276 Sq. Ft	287.5 Sq. Ft	299 Sq. Ft	310.5 Sq. Ft	322 Sq. Ft	333.5 Sq. Ft	345 Sq. Ft	356.5 Sq. Ft	368 Sq.
24 f	<b>t.</b> 60	60 Sq. Ft	72 Sq. Ft	84 Sq. Ft	96 Sq. Ft	108 Sq. Ft	120 Sq. Ft	132 Sq. Ft	144 Sq. Ft	156 Sq. Ft	168 Sq. Ft	180 Sq. Ft	192 Sq. Ft	204 Sq. Ft	216 Sq. Ft	228 Sq. Ft	240 Sq. Ft	252 Sq. Ft	264 Sq. Ft	276 Sq. Ft	288 Sq. Ft	300 Sq. Ft	312 Sq. Ft	324 Sq. Ft	336 Sq. Ft	348 Sq. Ft	360 Sq. Ft	372 Sq. Ft	384 Sq.
25 f	<b>t.</b> 62.	2.5 Sq. Ft	75 Sq. Ft	87.5 Sq. Ft	100 Sq. Ft	112.5 Sq. Ft	125 Sq. Ft	137.5 Sq. Ft	150 Sq. Ft	162.5 Sq. Ft	175 Sq. Ft	187.5 Sq. Ft	200 Sq. Ft	212.5 Sq. Ft	225 Sq. Ft	237.5 Sq. Ft	250 Sq. Ft	262.5 Sq. Ft	275 Sq. Ft	287.5 Sq. Ft	300 Sq. Ft	312.5 Sq. Ft	325 Sq. Ft	337.5 Sq. Ft	350 Sq. Ft	362.5 Sq. Ft	375 Sq. Ft	387.5 Sq. Ft	400 Sq. I
26 f	<b>t.</b> 65	55 Sq. Ft	78 Sq. Ft	91 Sq. Ft	104 Sq. Ft	117 Sq. Ft	130 Sq. Ft	143 Sq. Ft	156 Sq. Ft	169 Sq. Ft	182 Sq. Ft	195 Sq. Ft	208 Sq. Ft	221 Sq. Ft	234 Sq. Ft	247 Sq. Ft	260 Sq. Ft	273 Sq. Ft	286 Sq. Ft	299 Sq. Ft	312 Sq. Ft	325 Sq. Ft	338 Sq. Ft	351 Sq. Ft	364 Sq. Ft	377 Sq. Ft	390 Sq. Ft	403 Sq. Ft	416 Sq. I
27 f	<b>t.</b> 67.	7.5 Sq. Ft	81 Sq. Ft	94.5 Sq. Ft	108 Sq. Ft	121.5 Sq. Ft	135 Sq. Ft	148.5 Sq. Ft	162 Sq. Ft	175.5 Sq. Ft	189 Sq. Ft	202.5 Sq. Ft	216 Sq. Ft	229.5 Sq. Ft	243 Sq. Ft	256.5 Sq. Ft	270 Sq. Ft	283.5 Sq. Ft	297 Sq. Ft	310.5 Sq. Ft	324 Sq. Ft	337.5 Sq. Ft	351 Sq. Ft	364.5 Sq. Ft	378 Sq. Ft	391.5 Sq. Ft	405 Sq. Ft	418.5 Sq. Ft	432 Sq. F
28 f	<b>t.</b> 70	'0 Sq. Ft	84 Sq. Ft	98 Sq. Ft	112 Sq. Ft	126 Sq. Ft	140 Sq. Ft	154 Sq. Ft	168 Sq. Ft	182 Sq. Ft	196 Sq. Ft	210 Sq. Ft	224 Sq. Ft	238 Sq. Ft	252 Sq. Ft	266 Sq. Ft	280 Sq. Ft	294 Sq. Ft	308 Sq. Ft	322 Sq. Ft	336 Sq. Ft	350 Sq. Ft	364 Sq. Ft	378 Sq. Ft	392 Sq. Ft	406 Sq. Ft	420 Sq. Ft	434 Sq. Ft	448 Sq. I
29 f	<b>t.</b> 72.	2.5 Sq. Ft	87 Sq. Ft	101.5 Sq. Ft	116 Sq. Ft	130.5 Sq. Ft	145 Sq. Ft	159.5 Sq. Ft	174 Sq. Ft	188.5 Sq. Ft	203 Sq. Ft	217.5 Sq. Ft	232 Sq. Ft	246.5 Sq. Ft	261 Sq. Ft	275.5 Sq. Ft	290 Sq. Ft	304.5 Sq. Ft	319 Sq. Ft	333.5 Sq. Ft	348 Sq. Ft	362.5 Sq. Ft	377 Sq. Ft	391.5 Sq. Ft	406 Sq. Ft	420.5 Sq. Ft	435 Sq. Ft	449.5 Sq. Ft	464 Sq. F
30 fi	<b>t.</b> 75	'5 Sq. Ft	90 Sq. Ft	105 Sq. Ft	120 Sq. Ft	135 Sq. Ft	150 Sq. Ft	165 Sq. Ft	180 Sq. Ft	195 Sq. Ft	210 Sq. Ft	225 Sq. Ft	240 Sq. Ft	255 Sq. Ft	270 Sq. Ft	285 Sq. Ft	300 Sq. Ft	315 Sq. Ft	330 Sq. Ft	345 Sq. Ft	360 Sq. Ft	375 Sq. Ft	390 Sq. Ft	405 Sq. Ft	420 Sq. Ft	435 Sq. Ft	450 Sq. Ft	465 Sq. Ft	480 Sq. F
31 f	<b>t.</b> 77.	7.5 Sq. Ft	93 Sq. Ft	108.5 Sq. Ft	124 Sq. Ft	139.5 Sq. Ft	155 Sq. Ft	170.5 Sq. Ft	186 Sq. Ft	201.5 Sq. Ft	217 Sq. Ft	232.5 Sq. Ft	248 Sq. Ft	263.5 Sq. Ft	279 Sq. Ft	294.5 Sq. Ft	310 Sq. Ft	325.5 Sq. Ft	341 Sq. Ft	356.5 Sq. Ft	372 Sq. Ft	387.5 Sq. Ft	403 Sq. Ft	418.5 Sq. Ft	434 Sq. Ft	449.5 Sq. Ft	465 Sq. Ft	480.5 Sq. Ft	496 Sq. F
32 ff	t. 80	30 Sq. Ft	96 Sq. Ft	112 Sq. Ft	128 Sq. Ft	144 Sq. Ft	160 Sq. Ft	176 Sq. Ft	192 Sq. Ft	208 Sq. Ft	224 Sq. Ft	240 Sq. Ft	256 Sq. Ft	272 Sq. Ft	288 Sq. Ft	304 Sq. Ft	320 Sq. Ft	336 Sq. Ft	352 Sq. Ft	368 Sq. Ft	384 Sq. Ft	400 Sq. Ft	416 Sq. Ft	432 Sq. Ft	448 Sq. Ft	464 Sq. Ft	480 Sq. Ft	496 Sq. Ft	512 Sq. F
33 ff	<b>t.</b> 82.	2.5 Sq. Ft	99 Sq. Ft	115.5 Sq. Ft	132 Sq. Ft	148.5 Sq. Ft	165 Sq. Ft	181.5 Sq. Ft	198 Sq. Ft	214.5 Sq. Ft	231 Sq. Ft	247.5 Sq. Ft	264 Sq. Ft	280.5 Sq. Ft	297 Sq. Ft	313.5 Sq. Ft	330 Sq. Ft	346.5 Sq. Ft	363 Sq. Ft	379.5 Sq. Ft	396 Sq. Ft	412.5 Sq. Ft	429 Sq. Ft	445.5 Sq. Ft	462 Sq. Ft	478.5 Sq. Ft	495 Sq. Ft	511.5 Sq. Ft	528 Sq. F
34 ft	85	35 Sq. Ft	102 Sq. Ft	119 Sq. Ft	136 Sq. Ft	153 Sq. Ft	170 Sq. Ft	187 Sq. Ft	204 Sq. Ft	221 Sq. Ft	238 Sq. Ft	255 Sq. Ft	272 Sq. Ft	289 Sq. Ft	306 Sq. Ft	323 Sq. Ft	340 Sq. Ft	357 Sq. Ft	374 Sq. Ft	391 Sq. Ft	408 Sq. Ft	425 Sq. Ft	442 Sq. Ft	459 Sq. Ft	476 Sq. Ft	493 Sq. Ft	510 Sq. Ft	527 Sq. Ft	544 Sq. F
35 ft	87.	7.5 Sq. Ft	105 Sq. Ft	122.5 Sq. Ft	140 Sq. Ft	157.5 Sq. Ft	175 Sq. Ft	192.5 Sq. Ft	210 Sq. Ft	227.5 Sq. Ft	245 Sq. Ft	262.5 Sq. Ft	280 Sq. Ft	297.5 Sq. Ft	315 Sq. Ft	332.5 Sq. Ft	350 Sq. Ft	367.5 Sq. Ft	385 Sq. Ft	402.5 Sq. Ft	420 Sq. Ft	437.5 Sq. Ft	455 Sq. Ft	472.5 Sq. Ft	490 Sq. Ft	507.5 Sq. Ft	525 Sq. Ft	542.5 Sq. Ft	560 Sq. F
36 ft	90	00 Sq. Ft	108 Sq. Ft	126 Sq. Ft	144 Sq. Ft	162 Sq. Ft	180 Sq. Ft	198 Sq. Ft	216 Sq. Ft	234 Sq. Ft	252 Sq. Ft	270 Sq. Ft	288 Sq. Ft	306 Sq. Ft	324 Sq. Ft	342 Sq. Ft	360 Sq. Ft	378 Sq. Ft	396 Sq. Ft	414 Sq. Ft	432 Sq. Ft	450 Sq. Ft	468 Sq. Ft	486 Sq. Ft	504 Sq. Ft	522 Sq. Ft	540 Sq. Ft	558 Sq. Ft	576 Sq. F
					1	Type "B" (2 Posts 1.6 CY Conc. 98 LBs Bar Steel	1	I	1		ı	I.		Type "C" (2 Posts) 1.8 CY Conc. 100 LBs Bar Steel		1.8 CY	" (2 Posts) ' Conc. Bar Steel		Type "C" (3 Pos 2.7 CY Conc. 150 LBs Bar Ste			Type "D" (3 Posts) 2.7 CY Conc. 168 LBs Bar Steel			ı		1	1	J

#### STEEL POST SIZE

"A" - W10" x 12"

"B" - W12" x 16"

"C" - W12" x 19" "D" - W12 x 22"

> DETERMINATION OF HIGH STRENGTH STRUCTURAL STEEL SIGN SUPPORT TYPE

> > WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew & Rauch For State Traffic Engineer

DATE 3/5/10 

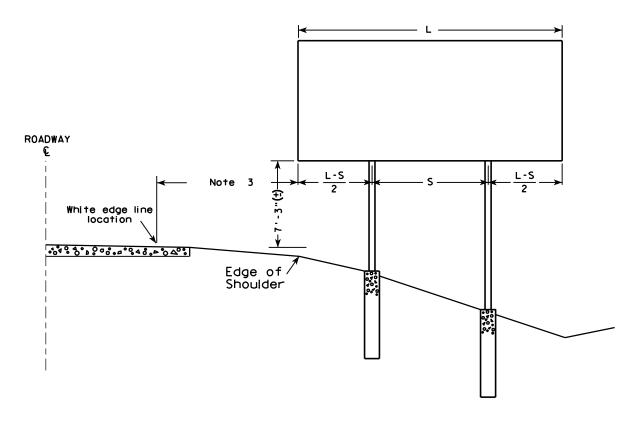
SHEET NO:

PROJECT NO:

PLOT DATE: 05-MAR-2010 10:07

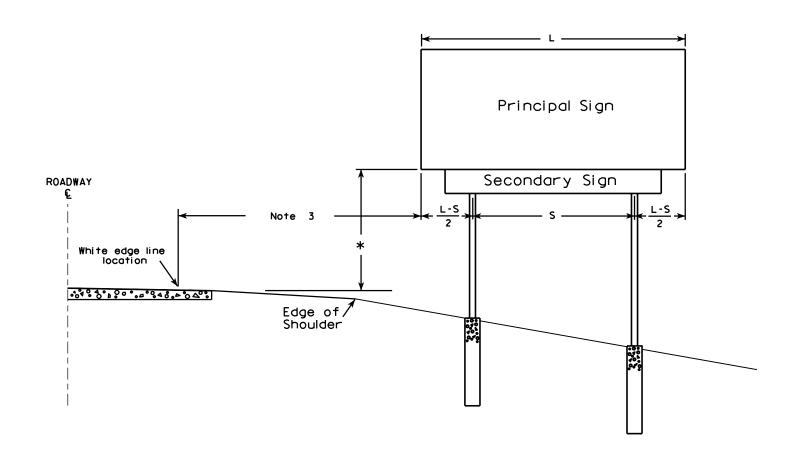
FILE NAME : C:\users\PROJECTS\tr\_stdplate\A33.DGN

WISDOT/CADDS SHEET 42



## GENERAL NOTES

- 1. For a 2 post installation, S equals 3L/5, but shall not be less than 9 ft.
- 2. For a 3 post installation, S equals 5L/7, but shall not be less than 18 ft., and the space between any two posts shall not be less than 9 ft.
- 3. Unless noted in the plan, the sign offset distance shall be a minimum of 17'-6", desirable 30'-0".
- 4. The  $(\pm)$  tolerance shown on this sheet is 3 in.
- 5. The vertical sign height clearance detailed is measured from the bottom of the sign to the near edge of pavement.
- 6. Post lengths shown in the miscellaneous quantities are estimated lengths. The contractor shall verify post lengths at the time of final grading.
- 7. Refer to the Traffic Guidelines Manual for further guidance on minimum vertical clearance requirements.



\* Clearance is 8'-3"( $\pm$ ) when the secondary sign is 3 ft. or less in height. For secondary signs larger than 3 ft., the clearance to the bottom of the secondary sign shall be 5'-3"( $\pm$ ).

TYPICAL INSTALLATION
OF TYPE I SIGNS

WISCONSIN DEPT OF TRANSPORTATION

APPROVED

Matthew & Rauch

For State Traffic Engineer

DATE 4/02/08 PLATE NO. A4-1.9

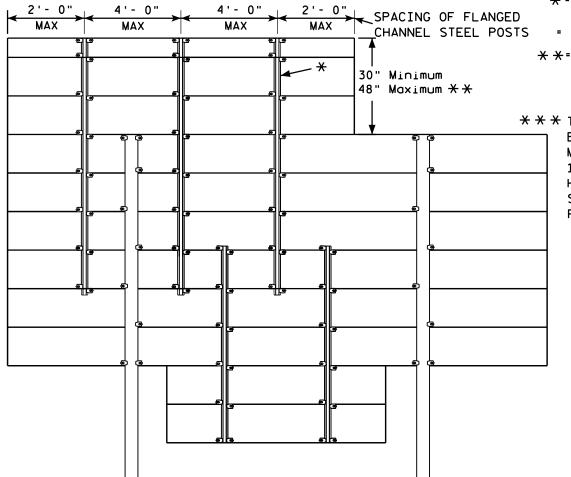
SHEET NO:

PLOT BY : ditjph

PLOT DATE: 02-APR-2008 15:49

PROJECT NO:





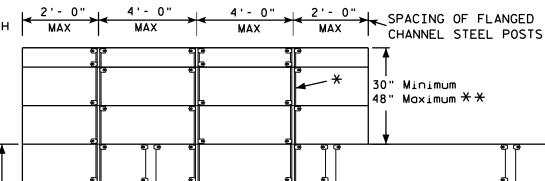
\*=2.00 lb/ft FLANGED CHANNEL, MIN. YIELD STRENGTH

CHANNEL STEEL POSTS = 60,000 PSI (GRADE 60) GALVANIZED

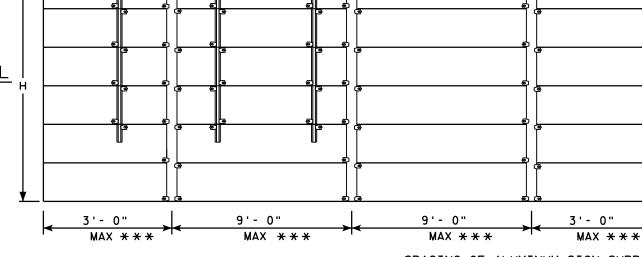
SIGN BRIDGE MOUNTED SIGN

\* \*= FOR 48" HEIGHT PANELS ON OVERHEAD STRUCTURES, ENTIRE SIGN SHALL BE CENTERED VERTICALLY ABOUT THE DEPTH OF THE TRUSS.

\* \* THESE SPACING DISTANCES SHALL ONLY BE USED WHEN THE MAIN SIGN HAS A MAXIMUM HEIGHT (DIMENSION H) OF 16 FT OR LESS. FOR SIGNS WITH A HEIGHT OF GREATER THAN 16 FT, STRUCTURAL CALCULATIONS SHALL BE PERFORMED.



FLANGE CHANNEL DETAIL 1/<sub>4</sub> → NOT TO SCALE



SPACING OF ALUMINUM SIGN SUPPORTS 5" X 3.5" X 3.7 LBS./ft.

### GENERAL NOTES

- 1. Flanged channel steel posts shall conform to size and material above, and shall be considered as incidental to other items in the contract.
- 2. Number of Flanged channel steel supports varies with length of panel and shall be spaced as shown:

PANEL LENGTH 8'-0" OR LESS = 2 CHANNELS PANEL LENGTH 9'- 0" - 12'- 0" = 3 CHANNELS PANEL LENGTH 13'- 0" OR MORE = 4 CHANNELS

If the flanged channel steel posts can not be horizontally spaced as shown, they can be moved so as to securely hold the sign.

3. The EXIT NUMBER PANEL shall normally be positioned above the guide sign aligned with the right edge of the guide sign. If the guide sign indicates a left exit, the EXIT NUMBER PANEL shall be aligned with the left edge of the guide sign.

2'- 0"

- 4. If the bolt holes in the top panel (EXIT NUMBER), or sub panel (NEXT EXIT) line up with holes in main sign panel, stitch bolts shall be used in addition to the channels.
- 5. Provide post clips for each sign as shown. (Please note the differences between a ground mounted versus Sign bridge mounted sign as far as number of clips required on the main supports or beams)
- 6. Structural steel sign supports shall extend to the top of the main signs, as shown on the above details.

PLOT BY: mscs.ja

ATTACHMENT OF GUIDE SIGNS TO SUPPORTS

WISCONSIN DEPT OF TRANSPORTATION

For State Traffic Engineer

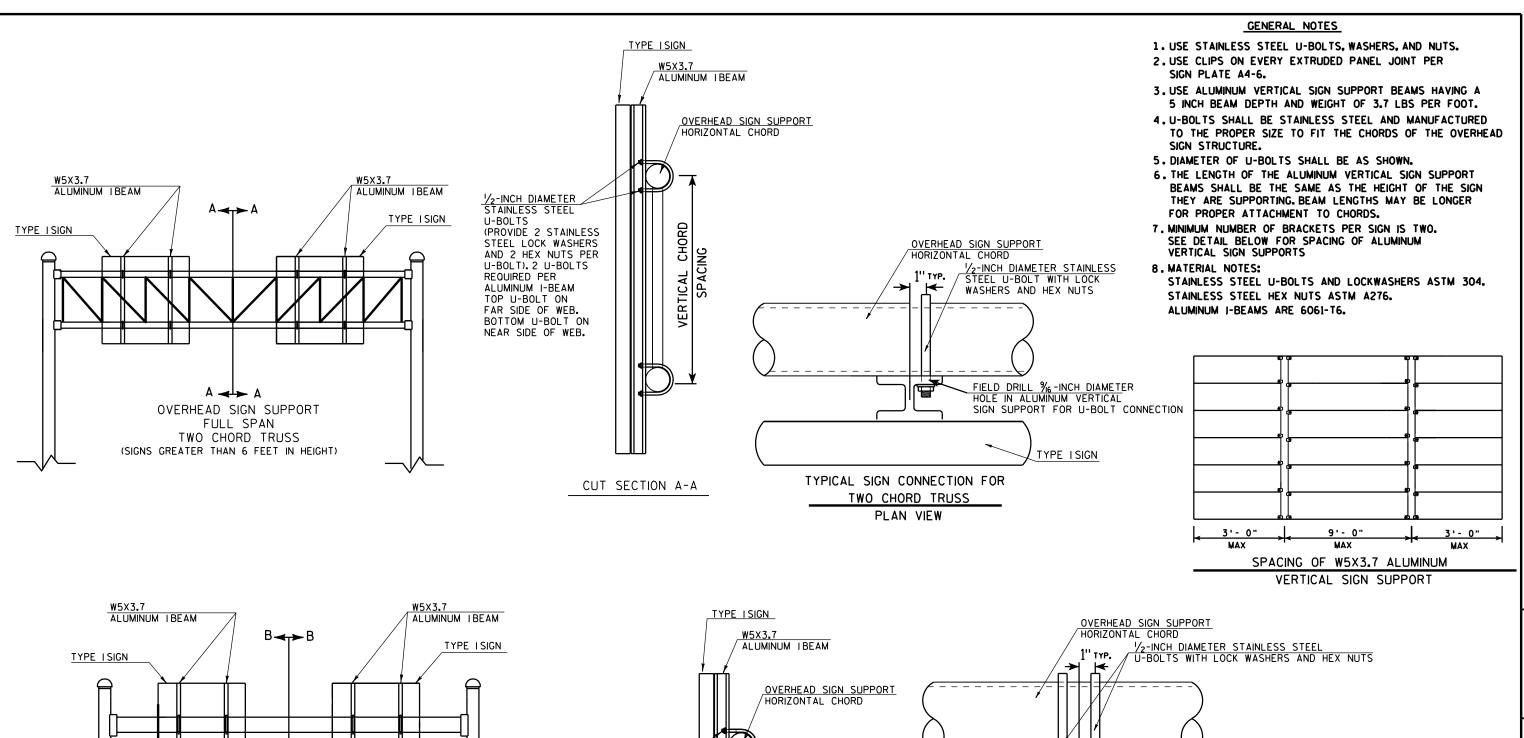
DATE 12/05/13

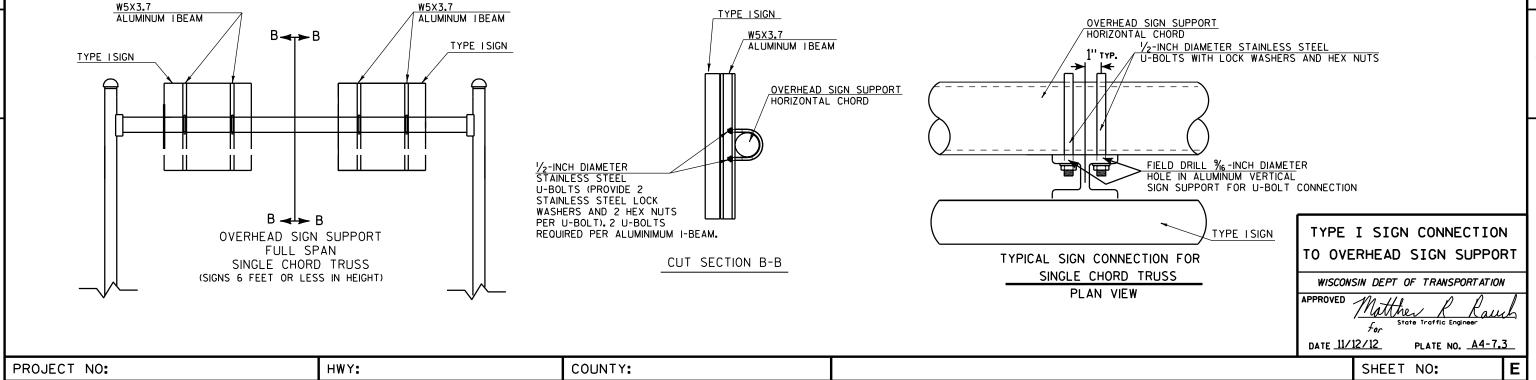
PLATE NO. A4-6.12

SHEET NO:

PROJECT NO:

FILE NAME : C:\CAEFiles\Projects\tr\_stdplate\A46.DGN





FILE NAME : C:\CAEFiles\Projects\tr\_stdplate\A47.DGN

PLOT BY : msc i9h



PROJECT NO: HWY: COUNTY: SHEET NO: FILE NAME : C:\CAEFiles\Projects\tr\_stdplate\A49.DGN PLOT DATE: 05-FEB-2015 17:09 PLOT BY: mscsja PLOT NAME : PLOT SCALE: 13.659812:1.000000

DATE 2/05/15

PLATE NO. <u>A4-9.9</u>

For State Traffic Engineer

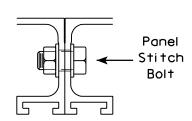
## STITCH BOLT, WASHER & NUT

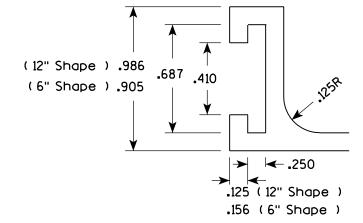
The hardware includes:

3/8 " - 16 X 3/4 " Economy Bolt 2024-T4 alloy

3/8 " - Stainless steel stop nut

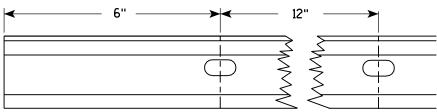
3/8" X .064 Flat Washers, Alclad 2024-T4 alloy







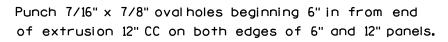
**←.**125

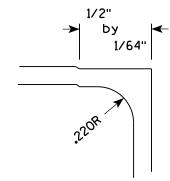


.078

**←** 2" →

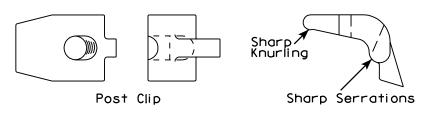
6" Extrusion Minimum Weight 1.1 lb./ft.

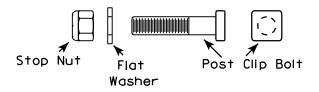




## POST CLIP, POST CLIP BOLT, WASHER & NUT

Post Clip shall be Alum. Alloy 356-T6 Post Clip Bolt shall be Stainless Steel. Flat washer shall be 3/8" X .091, Stainless Steel. Stop nut shall be stainless steel.





#### NOTES

- 1. The contractor may select any brand of extrusion that conforms to the illustrations or meets with the approval of the engineer, but all extrusions used on this contract shall be of the same brand.
- 2. Panel Stitch Bolts shall be used to assemble adjacent panels. Maximum stitch bolt spacing shall be 24" C-C, and a minimum of 4 bolts shall be used to connect any two extrusions.
- 3. Post Clips shall be used to attach the sign panel to the sign support.

ALUMINUM EXTRUSIONS FOR TYPE I SIGNS

WISCONSIN DEPT OF TRANSPORTATION

APPROVED hester J Spang For State Traffic Engineer PLATE NO. 45-2.9

DATE 11/18/99

SHEET NO:

PROJECT NO:

PLOT DATE: 28-SEP-2005 07:20 PLOT BY : DOTDZK

12" Extrusion

Minimum Weight

2.45 lb./ft.

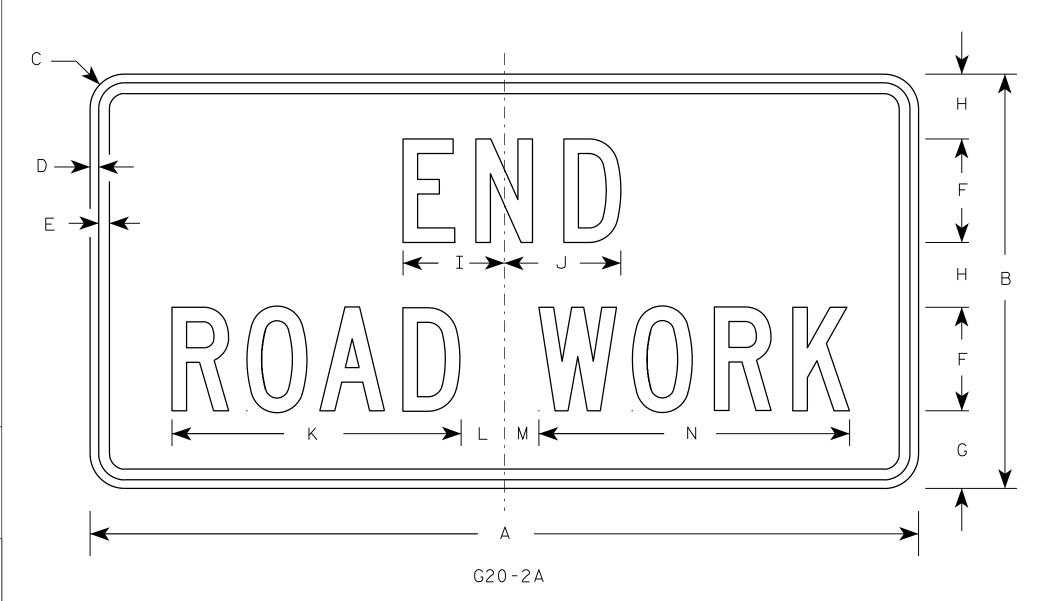
## NOTES

1. Sign is Type II - Type F Reflective - reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.

2. Color:

Background - Orange Message - Black

- 3. Message Series C
- 4. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.



Metric equivalent for this sign is:

SIZE	Α	В	С	D	E	F	G	Н	I	J	К	L	М	N	0	Р	Q	R	S	Т	U	٧	W	Х	Y	Z	Area sq. ft.	Area m2
1	36	18	1 1/8	3/8	1/2	4	3 3/4	2 ½	4 1/8	4 1/8	11 1/8	2	1	12 1/8													4.5	0.41
2	48	24	1 1/2	1/2	5/8	6	4 1/2	3 3/4	5 %	6 3/4	16 ¾	2 1/2	1 3/4	18 ½													8.0	0.72
3	48	24	1 1/2	1/2	5/8	6	4 1/2	3 3/4	5 %	6 3/4	16 ¾	2 1/2	1 3/4	18 ½													8.0	0.72
4	48	24	1 1/2	1/2	5/8	6	4 1/2	3 3/4	5 %	6 3/4	16 ¾	2 1/2	1 3/4	18 ½													8.0	0.72
5	48	24	1 1/2	1/2	5/8	6	4 1/2	3 3/4	5 1/8	6 3/4	16 ¾	2 1/2	1 3/4	18 ½													8.0	0.72

COUNTY:

STANDARD SIGN G20-2A

WISCONSIN DEPT OF TRANSPORTATION

APPROVED AND UN A O N

Matther R Lauch

For State Traffic Engineer

DATE 9/30/09 PLATE NO. G20-2A.8

SHEET NO:

FILE NAME : C:\Users\PROJECTS\tr\_stdplate\G202A.DGN

HWY:

PROJECT NO:

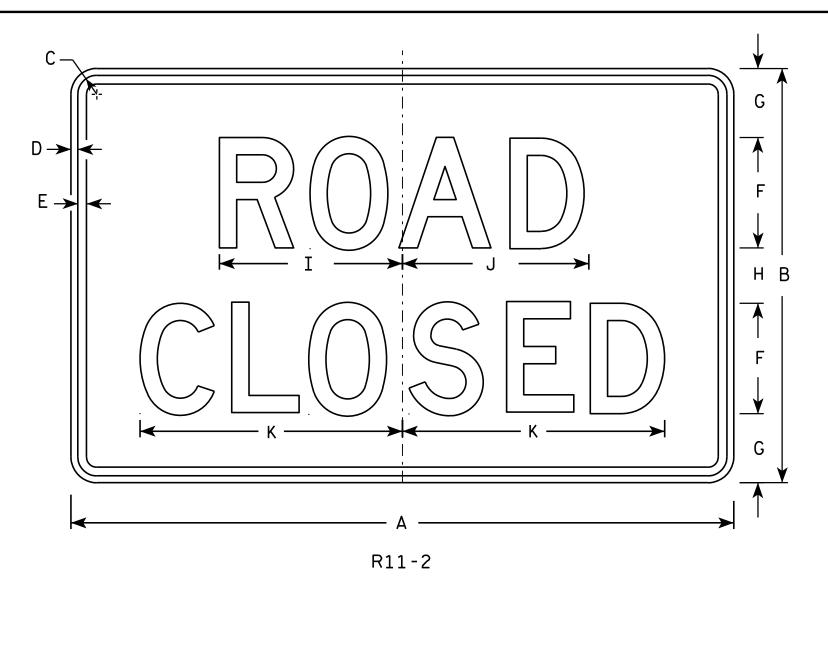
PLOT DATE: 30-SEP-2009 09:31

PLOT BY: ditjph

PLOT NAME :

PLOT SCALE: 5.561773:1.000000

WISDOT/CADDS SHEET 42

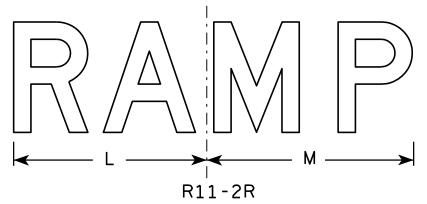


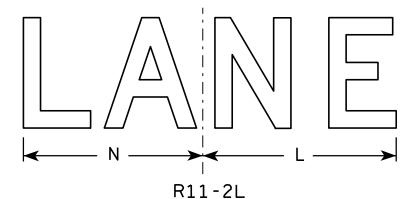
## <u>NOTES</u>

- 1. Sign is Type II Type H Reflective reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
- 2. Color:

Background - White Message - Black

- 3. Message Series D
- 4. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.
- 5. Modify the message as required.





SIZE	A	В	С	D	E	F	G	Н	I	J	K	L	M	N	0	Ρ	0	R	S	T	U	V	W	X	Y	Z	Area sq. ft.
1																											
2S	48	30	1 3/8	1/2	5/8	8	5	4	13 1/4	13 1/2	19	14	15	13													10.0
2M	48	30	1 3/8	1/2	5/8	8	5	4	13 1/4	13 1/2	19	14	15	13													10.0
3	48	30	1 3/8	1/2	5/8	8	5	4	13 1/4	13 1/2	19	14	15	13													10.0
4	48	30	1 3/8	1/2	5/8	8	5	4	13 1/4	13 1/2	19	14	15	13													10.0
5	48	30	1 3/8	1/2	5/8	8	5	4	13 1/4	13 1/2	19	14	15	13													10.0
PRO	DJECT	NO:						HWY:					С	OUNTY	<b>':</b>												

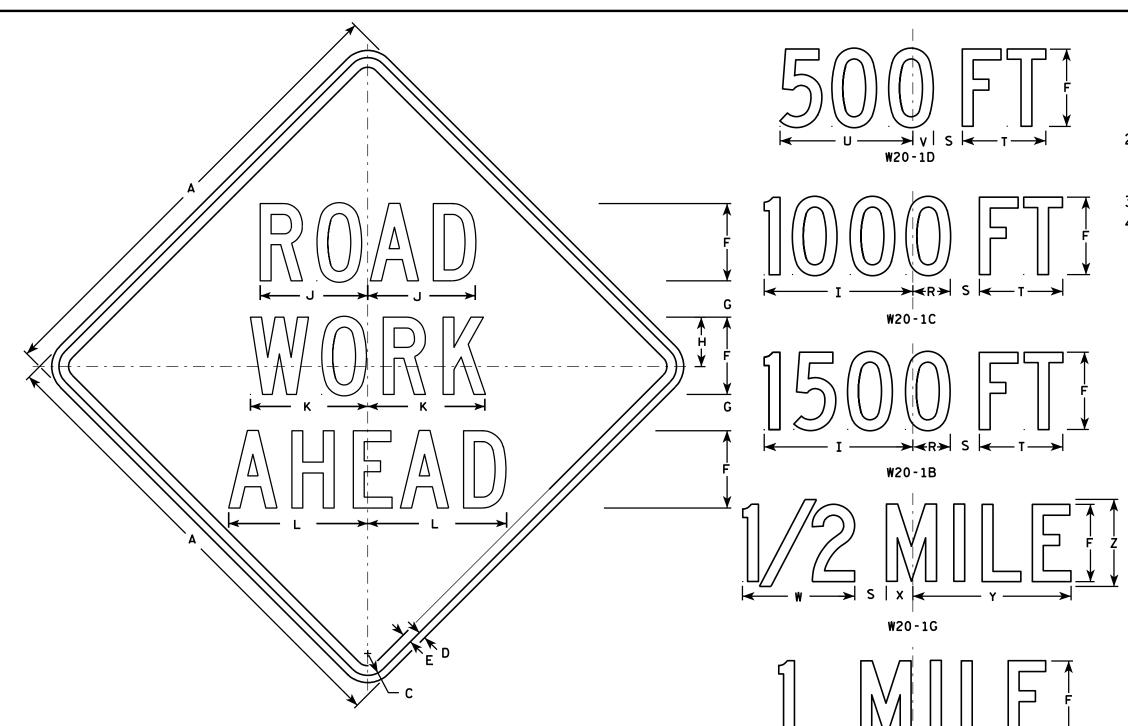
STANDARD SIGN R11-2

WISCONSIN DEPT OF TRANSPORTATION

DATE 4/1/11 PLATE NO. R11-2.10

SHEET NO:

PLOT BY: mscj9h



7 5/8 8 7/8 1 1/8 4 1/2 3 1/2

3 3/4 | 5 1/8 | 15 3/8 | 11 1/8 | 12 1/8 | 14 3/8 | 1 5/8 | 6 7/8 | 5 3/8 | 13 7/8 |

3 3/4 | 5 1/8 | 15 3/8 | 11 1/8 | 12 1/8 | 14 3/8 | 1 5/8 | 6 3/8 | 5 3/8

3 3/4 | 5 1/8 | 15 3/8 | 11 1/8 | 12 1/8 | 14 3/8 | 1 5/8 | 6 7/8 | 5 3/8

3 3/4 | 5 1/8 | 15 3/8 | 11 1/8 | 12 1/8 | 14 3/8 | 1 5/8 | 6 7/8 | 5 3/8 |

| 3 3/4 | 5 1/8 | 15 3/8 | 11 1/8 | 12 1/8 | 14 3/8 | 1 5/8 | 6 7/8 |

W20-1A

2 \\ 8 | 3 \\ 4 | 10 \\ 8 |

NOTES

- Sign is Type II Type F Reflective reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
- 2. Color:

Background - Orange Message - Black

3. Message Series - C

Area sq. ft.

16.0

16.0

16.0

4. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.

STANDARD SIGN W20-1A, B, C, D, F & G

WISCONSIN DEPT OF TRANSPORTATION

APPROVED

Matther R Rauch

For State Traffic Engineer

DATE 3/18/11 PLATE NO. W20-1.9

SHEET NO:

1 3/4 10 3/4

16 3/8 9

1 3/8

2 1/4

2 1/4

1/2

3/4

3/4

SIZE A

3

4

5

36

48

48

48

48

48

PROJECT NO:

W20-1F

1 3/8

13 3/4 2 1/8 11 1/8 2 3/4 16 3/8

13 3/4 2 1/8 11 1/8 2 3/4 16 3/8

13 3/4 2 1/8 11 1/8 2 3/4 16 3/8

8 \% | 13 \% | 2 \% | 11 \% | 2 \% | 16 \% | 9

| 13 3/4 | 2 1/8 | 11 1/8 | 2 3/4 |

5 %

8 %

2 1/2 1 1/8

3 1/8

3 %

3 %

3 %

## <u>NOTES</u>

- 1. Sign is Type II Type F Reflective reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
- 2. Color:

Background - Orange Message - Black

- 3. Message Series See Note 5
- 4. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.
- 5. " LANE" is Series B. Allother copy is Series C.

500 FT

W20-5C

1500 FT



PLOT BY: mscj9h



									W20-	5A																	W 4	20-3F
SI	ZE	Α	В	С	D	E	F	G	Н	I	J	K	L	M	N	0	Р	0	R	S	T	U	V	W	Х	Y	Z	Area sq. ft.
	1	36	6	1 5/8	5/8	₹4	5	<b>1</b> /8	2 1/2	13 1/8	10 ¾	9 1/2	14 1/4	13 %	12	12	1 3/8	1 1/8	4 1/2	3 1/2	9	1 1/8	5 %	10 1/8	2 1/2	1 3/4	8	9.0
2	?S	48	8	2 1/4	3/4	1	7	1 1/4	3 1/4	17 1/2	14 3/8	12 5/8	19	18 3/8	16	14 1/4	1 1/8	1 1/2	6	4 %	12	2 %	7 1/2	13 1/2	3 3/8	2 3/8	10 %	16.0
2	M	48	8	2 1/4	3/4	1	7	1 1/4	3 1/4	17 1/2	14 3/8	12 5/8	19	18 3/8	16	14 1/4	1 1/8	1 1/2	6	4 %	12	2 %	7 1/2	13 1/2	3 3/8	2 3/8	10 %	16.0
	3	48	8	2 1/4	3/4	1	7	1 1/4	3 1/4	17 1/2	14 3/8	12 5/8	19	18 3/8	16	14 1/4	1 1/8	1 1/2	6	4 %	12	2 %	7 1/2	13 1/2	3 3/8	2 3/8	10 %	16.0
	4	48	8	2 1/4	3/4	1	7	1 1/4	3 1/4	17 1/2	14 3/8	12 %	19	18 3/8	16	14 1/4	1 %	1 1/2	6	4 5/8	12	2 %	7 1/2	13 ½	3 %	2 3/8	10 %	16.0
	5	48	8	2 1/4	3/4	1	7	1 1/4	3 1/4	17 1/2	14 3/8	12 %	19	18 3/8	16	14 1/4	1 1/8	1 1/2	6	4 %	12	2 %	7 1/2	13 1/2	3 3/8	2 3/8	10 %	16.0

COUNTY:

STANDARD SIGN W20-5A, B, C, D, F & G

WISCONSIN DEPT OF TRANSPORTATION

APPROVED

Matthew & Rauch

For State Traffic Engineer

DATE 3/18/11 PLATE NO. W20-5.11

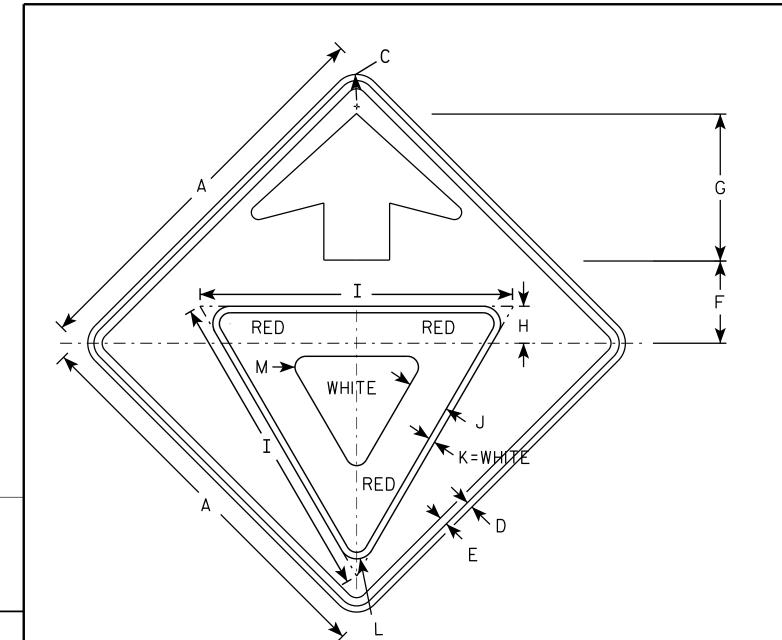
SHEET NO:

PROJECT NO:

HWY:

W20-56A

W20-55A

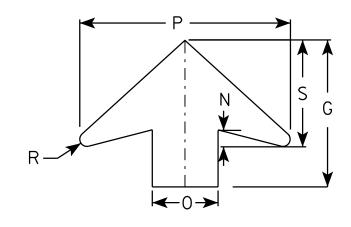


W03-2

## NOTES

- 1. All Signs Type II Type F Reflective reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
- 2. Color:

Background - ORANGE Arrow & Border - BLACK Yield Symbol - WHITE BORDER ON RED BACKGROUND



ARROW DETAIL

SIZE	Α	В	С	D	Ε	F	G	Н	I	J	K	L	M	N	0	Р	0	R	S	Т	U	V	W	Х	Y	Z	Area sq. ft.
1	36		1 5/8	5/8	3/4	7 1/2	13 1/2	3 %	28	3 3/4	5/8	1 1/2	1	1 %	6	19 1/4		5/8	9 3/4								9.0
2S	48		2 1/4	3/4	1	10	17 1/8	4 1/2	38	5	3/4	2 1/8	1 3/8	2	8	25 %		<b>7</b> /8	13								16.0
2M	48		2 1/4	3/4	1	10	17 1/8	4 1/2	38	5	3/4	2 1/8	1 3/8	2	8	25 %		<b>7</b> /8	13								16.0
3	48		2 1/4	3/4	1	10	17 1/8	4 1/2	38	5	3/4	2 1/8	1 3/8	2	8	25 %		<i>7</i> ⁄8	13								16.0
4	48		2 1/4	3/4	1	10	17 1/8	4 1/2	38	5	3/4	2 1/8	1 3/8	2	8	25 %		<i>7</i> ⁄8	13								16.0
5	48		2 1/4	3∕4	1	10	17 1/8	4 1/2	38	5	3/4	2 1/8	1 3/8	2	8	25 %		<b>7</b> /8	13								16.0

STANDARD SIGN WO3-2

WISCONSIN DEPT OF TRANSPORTATION

APPROVE

For State Traffic Engineer

DATE 11/20/13 PLATE NO. W03-2.1

SHEET NO:

PROJECT NO:

FILE NAME: C:\CAEFiles\Projects\tr\_stdplate\W032.DGN

PLOT DATE: 20-NOV-2013 11:18

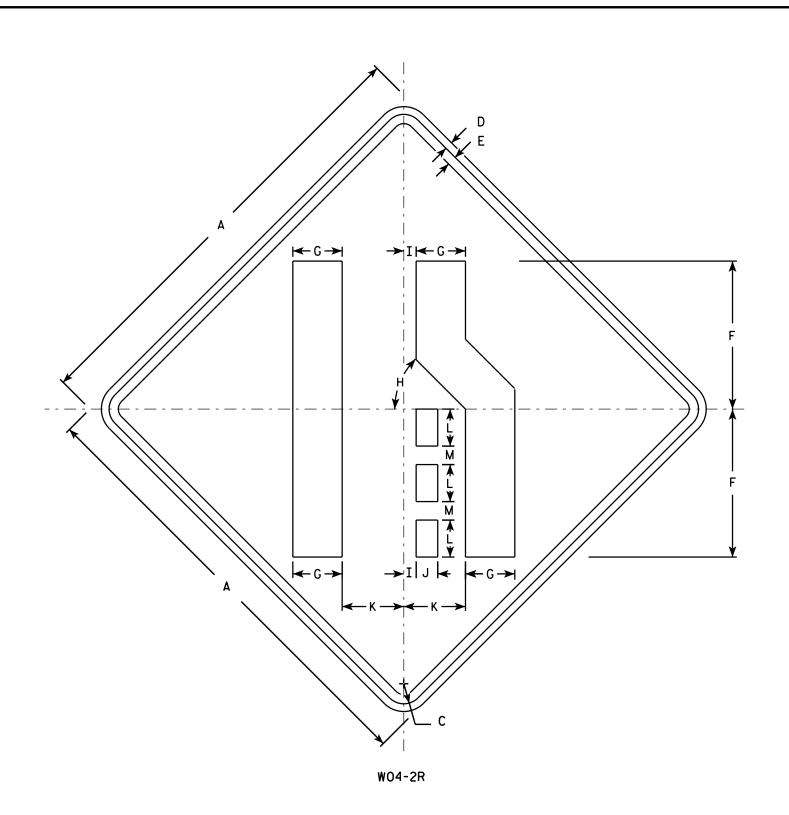
PLOT BY: mscsja

## NOTES

- 1. Sign is Type II Type F Reflective reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
- 2. Color:

Background - Orange Message - Black

- 3. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.
- 4. W04-2L is the same as W04-2R except the symbolis reversed along the vertical centerline.



SIZE 1 % 5/8 3/4 12 45° 1 3/4 5 1 1/2 4 36 3 9.0 2S 2 1/4 5 3/8 45° 1 ¼ 2 ¾ 6 ¾ 3/4 48 16.0 45° 1 ¼ 2 ¾ 6 ¾ 3/4 5 3/8 48 2 1/4 2 16.0 2 1/4 3 48 3/4 5 % 45° | 1 1/4 | 2 3/8 | 6 3/4 2 16.0 2 1/4 3/4 5 3/8 45° | 1 1/4 | 2 3/8 | 6 3/4 48 2 16.0 5 2 1/4 3/4 5 3/8 45° | 1 1/4 | 2 3/8 | 6 3/4 48 2 16.0

STANDARD SIGN W04 - 2

WISCONSIN DEPT OF TRANSPORTATION

APPROVED

ForState Traffic Engineer

DATE 11/20/13 PLATE NO. <u>WO4-2.1</u>

SHEET NO:

FILE NAME : C:\CAEFiles\Projects\tr\_stdplate\W042.DGN

PROJECT NO:

PLOT DATE: 20-NOV-2013 11:43

WISDOT/CADDS SHEET 42

Notes



# Wisconsin Department of Transportation

Dedicated people creating transportation solutions through innovation and exceptional service.

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