MARSH AREA

WOODED OR SHRUB AREA

I AX	MAY 2013
2,00	ORDER OF SHEETS
PROJECT ID:5032-00-71	Section No. 1 Title Section No. 2 Typical Sections and Detail Section No. 3 Estimate of Quantities Section No. 3 Miscellaneous Quantities Section No. 4 Right of Way Plat Section No. 5 Plan and Profile (include Section No. 6 Standard Detail Drawings Section No. 8 Structure Plans Section No. 9 Cross Sections TOTAL SHEETS = 34
1	PROJECT
ΠΓ :λινπου	DESIGN DESIGNATION A.A.D.T. (2013) = 3,200 A.A.D.T. (2033) = 3,900 D.H.V. = 300 D.D. = 60/40 T. = 7.5% DESIGN SPEED = 30 mph ESALS = 642,400 CONVENTIONAL SYMBOLS

STATE OF WISCONSIN SHEETS Title

DEPARTMENT OF TRANSPORTATION

PLAN OF PROPOSED IMPROVEMENT

HILLSBORO - REEDSBURG

BOX CULVERT C-29-11 **STH 33** JUNEAU COUNTY

> STATE PROJECT NUMBER 5032-00-71

WONEWOO Union Center PROJECT LOCATION **END PROJECT** T-14-N STA. 10+50 Y = 106,166.14 X = 423,924.02 ESIGNATION STRUCTURE C-29-11 (REHAB) Wonewoe STA 10+00.00 (2013) (2033) = 3,900 = 300 **BEGIN PROJECT** = 60/40 STA. 9+50 = 7.5% Y = 106,07L03 x = 423.893.14 = 30 mph = 642,400 WOODLANI ONAL SYMBOLS PROFILE PLAN T-13-N Y GRADE LINE CORPORATE LIMITS ORIGINAL GROUND PROPERTY LINE MARSH OR ROCK PROFILE (To be noted as such) __ LABEL____ LIMITED HIGHWAY EASEMENT SPECIAL DITCH R-3-F EXISTING RIGHT OF WAY R-2-E GRADE ELEVATION PROPOSED OR NEW R/W LINE CULVERT (Profile View) SLOPE INTERCEPT UTILITIES REFERENCE LINE ELECTRIC ------EXISTING CULVERT FIBER OPTIC PROPOSED CULVERT GAS (Box or Pipe) SANITARY SEWER COMBUSTIBLE FLUIDS

FEDERAL PROJECT STATE PROJECT PROJECT CONTRACT 5032-00-71

> ORIGINAL PLÂNS PREPARED BY: MSA 1230 South Boulevard Barabso, WI 53913 608-356-2771 1-800-362-4505 Fax: 608-356-2770 ALINIUS CONO BARABOO WI WI SONAL ENGINEERS

STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION

PREPARED BY Surveyor

MSA Professional Services, Inc. MSA Professional Services, Inc. Robert Winterton

Project Manager Regional Examiner

Oscar lan Winger Regional Supervisor ____

C.O. Examiner

APPROVED FOR THE DEPARTMENT

DATE: 1-24-13

Q

STORM SEWER TELEPHONE

UTILITY PEDESTAL

TELEPHONE POLE

POWER POLE

WATER

PLOT DATE: 1/23/2013

LAYOUT

TOTAL NET LENGTH OF CENTERLINE = 0.02 MI.

PLOT BY: Lrhodes

COORDINATES ON THIS PLAN ARE REFERENCED TO THE WISCONSIN COUNTY COORDINATE SYSTEM (WCCS), JUNEAU COUNTY.

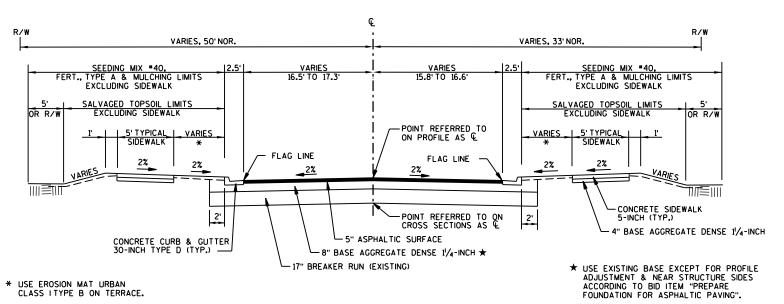
PLOT NAME :

PLOT SCALE: 1:200000

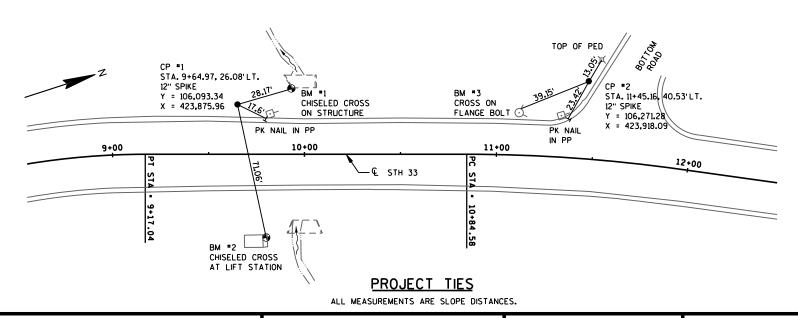
Typical Sections and Details Estimate of Quantities Miscellaneous Quantities

Plan and Profile (includes erosion control plan)

TYPICAL EXISTING SECTION



TYPICAL FINISHED SECTION



HWY: STH 33

DESIGN CONTACT

MSA PROFESSIONAL SERVICES, INC. ATTN .: LEAH J. RHODES P.E. 1230 SOUTH BOULEVARD BARABOO, WI 53913 608-355-8945

DNR LIAISON

DEPARTMENT OF NATURAL RESOURCES ATTN .: MARC HERSHFIELD DNR SERVICE CENTER 473 GRIFFITH DRIVE WISCONSIN RAPIDS, WI 54494 PHONE: (715) 421-7867

UTILITIES

GAS/PETROLEUM: WISCONSIN POWER AND LIGHT CO. ATTN: JASON HOGAN **SUITE 1000** 4902 N BILTMORE LANE MADISON, WI 53718 PHONE: (608) 458-4871 JASONHOGAN@ALLIANTENERGY.COM

WATER, SEWER & ELECTRIC: VILLAGE OF WONEWOC ATTN: LEE KUCHER P.O. BOX 37 WONEWOC, WI 53968-0037 PHONE: (608) 464-3114 WONEWOC@BUGNET.COM

* - NOT A MEMBER
OF DIGGERS HOTLINE.

GENERAL NOTES

Milwaukee Area (414) 259-1181

Hearing Impaired TDD (800) 542-2289

www.DiggersHotline.com

DISTURBED AREAS WITHIN THE RIGHT-OF-WAY SHALL BE FERTILIZED, SEEDED AND MULCHED AS DIRECTED BY THE ENGINEER.

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

NO TREES OR SHRUBS ARE TO BE REMOVED WITHOUT APPROVAL OF THE ENGINEER.

ELEVATIONS SHOWN ON THIS PLAN ARE REFERENCED TO GPS DATUM, NAVD 88 (96 ADJUSTED).

THE 5" ASPHALTIC SURFACE SHALL CONSIST OF A 21/4" UPPER LAYER AND A 21/4" LOWER LAYER.

ASPHALTIC SURFACE WEIGHT QUANTITIES ARE BASED ON 112 LB / SY/ IN.

THE CONTRACTOR'S PAYING OPERATIONS SHALL BE CONSISTENT WITH THE PLAN TYPICAL SECTIONS AND CONSTRUCTED TO PREVENT HMA LONGITUDINAL JOINTS FROM BEING LOCATED WITHIN A DRIVING, TURNING, PASSING OR PARKING LANE.

EXCAVATION BELOW SUBGRADE (EBS) WHICH IS NOT INDICATED ON THE CROSS SECTIONS AND WHICH IS REQUIRED BY THE ENGINEER SHALL BE MEASURED AND PAID FOR AS COMMON EXCAVATION. EBS IS NOT USED TO BALANCE YARDAGE.

THE EROSION CONTROL ITEMS SHOWN ON THE PLANS ARE AT SUGGESTED LOCATIONS. THE ENGINEER SHALL DETERMINE THE EXACT LOCATION OF EROSION CONTROL ITEMS. ALL EROSION CONTROL MEASURES SHALL BE MAINTAINED UNTIL SUCH TIME AS THE ENGER DETERMINES THE MEASUREMENT IS NO LONGER NECESSARY. THE CONTRACTOR WILL REMOVE ITEMS AT ENGINEER'S DIRECTION.

SILT FENCE TO BE PLACED AS SHOWN ON THE PLANS OR AS DIRECTED BY THE ENGINEER AND IN PLACE PRIOR TO BEGINNING CONSTRUCTION.

INLET OFFSETS GIVEN TO THE CENTER OF STRUCTURE.

GRATE ELEVATIONS SHOWN ON PLANS ARE TO THE FLOWLINE.

WHERE TYING INTO EXISTING STRUCTURES OR PIPES, VERIFY EXISTING ELEVATIONS AND DIMENSIONS PRIOR TO ORDERING MATERIALS.

RUNOFF COEFFICIENT TABLE

		HYDROLOGIC SOIL GROUP										
		Α		В			С				D	
	SLOPE	RANGE	(PERCENT)	SLOPE	RANGE	(PERCENT)	SLOPE	RANGE	(PERCENT)	SLOPE	RANGE	(PERCEN
LAND USE:	0-2	2-6	6 & OVER	0-2	2-6	6 & OVER	0-2	2-6	6 & OVER	0-2	2-6	6 & OVE
ROW CROPS	.08	.16	.22	.12	.20	.27	.15	.24	.33	.19	.28	.38
	.22	.30	.38	.26	.34	.44	.30	.37	.50	.34	.41	.56
MEDIAN STRIP-	.19	.20	.24	.19	.22	.26	.20	.23	.30	.20	.25	.30
TURF	.24	.26	.30	.25	.28	.33	.26	.30	.37	.27	.32	.40
SIDE SLOPE-			.25			.27			.28			.30
TURF			.32			.34			.36			.38
PAVEMENT:			I.									
ASPHAL T						.7095						
CONCRETE						.8095						
BRICK						.7080						
DRIVES, WALKS	•				•	.7585	•	_	•			
ROOFS						.7595						
GRAVEL ROADS.	SHOULDE	RS	_			.4060						

TOTAL PROJECT AREA = 0.26 ACRES
TOTAL AREA EXPECTED TO BE DISTURBED BY CONSTRUCTION ACTIVITIES = 0.17 ACRES

FILE NAME: P:\90s\93\00093171\caddWDOT\Planshts\93171_XC.dgn PLOT DATE: 1/29/2013

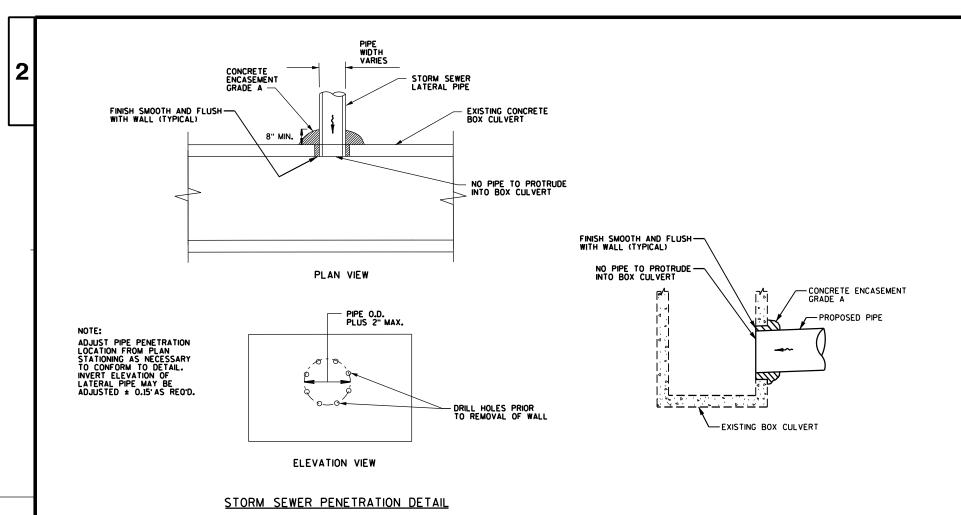
EXISTING & FINISHED TYPICAL SECTIONS

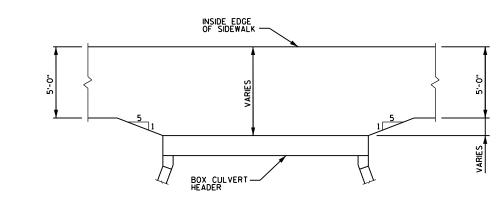
SHEET NO:

PROJECT NUMBER: 5032-00-71

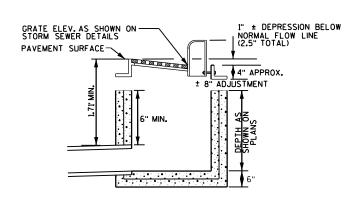
COUNTY: JUNEAU



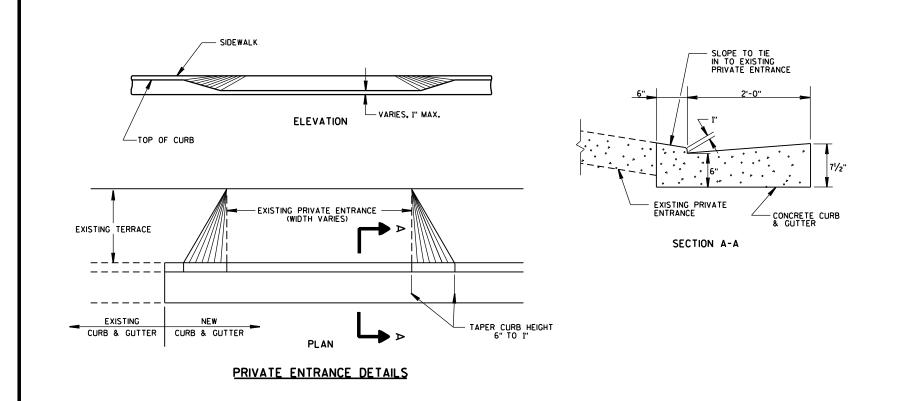




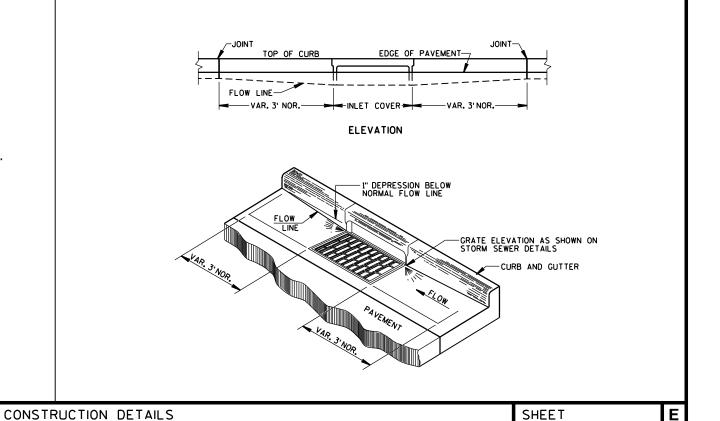
PLAN - SIDEWALK TAPER AT BOX CULVERT HEADERS



DETAIL FOR COMPUTING INLET ELEVATIONS INLET COVERS - H & HM



HWY: STH 33



FILE NAME: P:\90s\93\00093171\cadd\DOT\Planshts\93171_cd.dgn

PLOT DATE: 1/29/2013

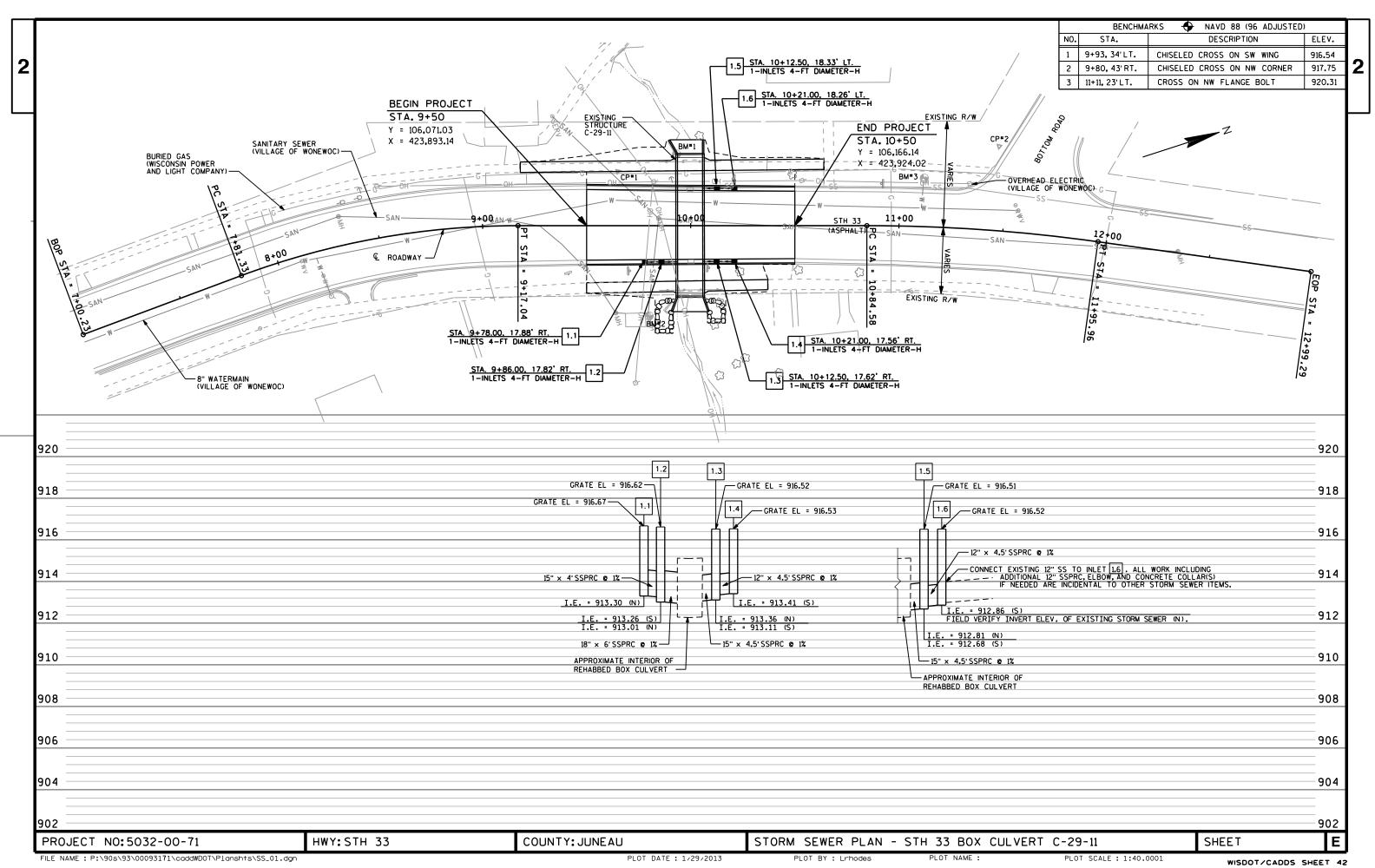
COUNTY: JUNEAU

PLOT BY : Lrhodes

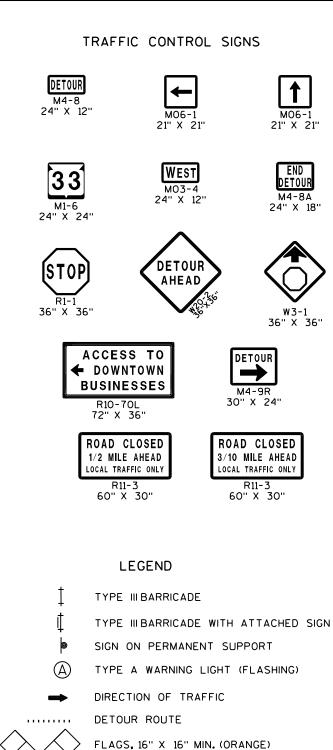
PLOT SCALE : 1:140

WISDOT/CADDS SHEET 42

PROJECT NO:5032-00-71



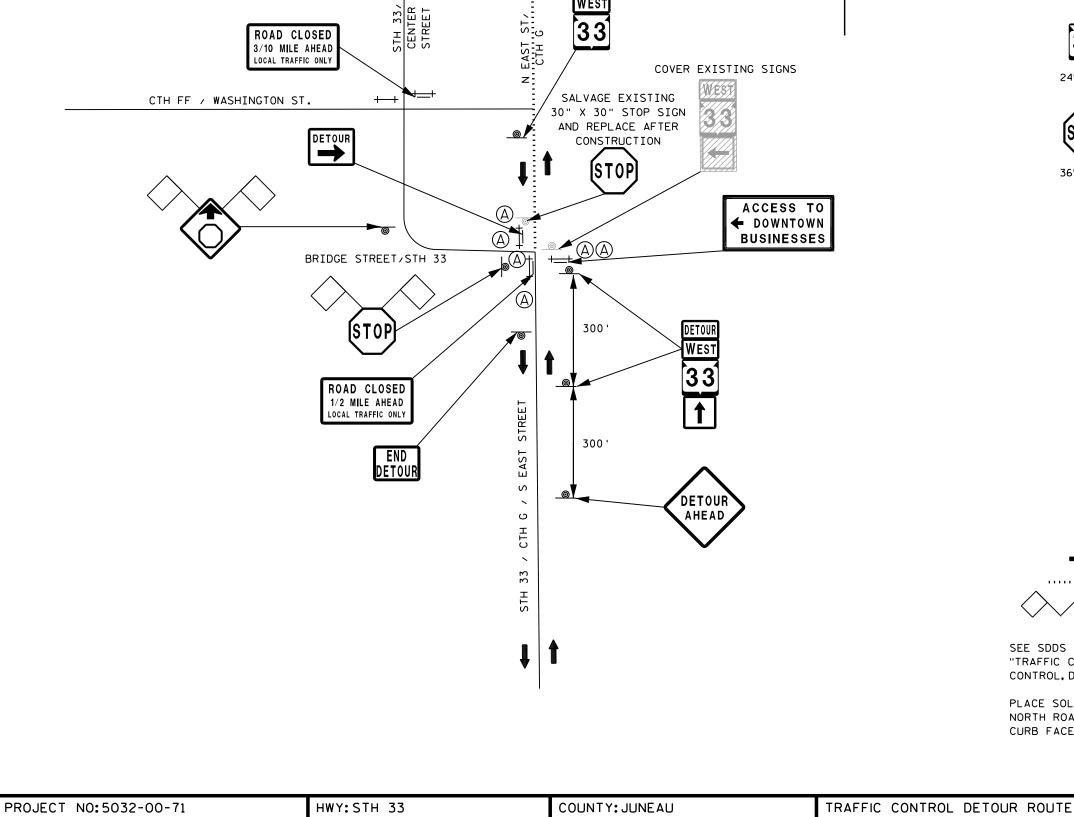




M06-1

SEE SDDS "BARRICADES AND SIGNS FOR MAINLINE CLOSURES" AND "TRAFFIC CONTROL, SIDEWALK CLOSURE" FOR OTHER TRAFFIC CONTROL, DIMENSIONS, AND NOTES.

PLACE SOLID YELLOW STRIPING ON N EAST STREET FROM STH 33 TO NORTH ROAD. LOCATE CENTER OF STRIPING 18 FEET FROM THE EAST CURB FACE.



MATCH LINE

GORDON STREET

ROAD CLOSED

FILE NAME: P:\90s\93\00093171\cadd\DOT\Planshts\93171_TC.dgn

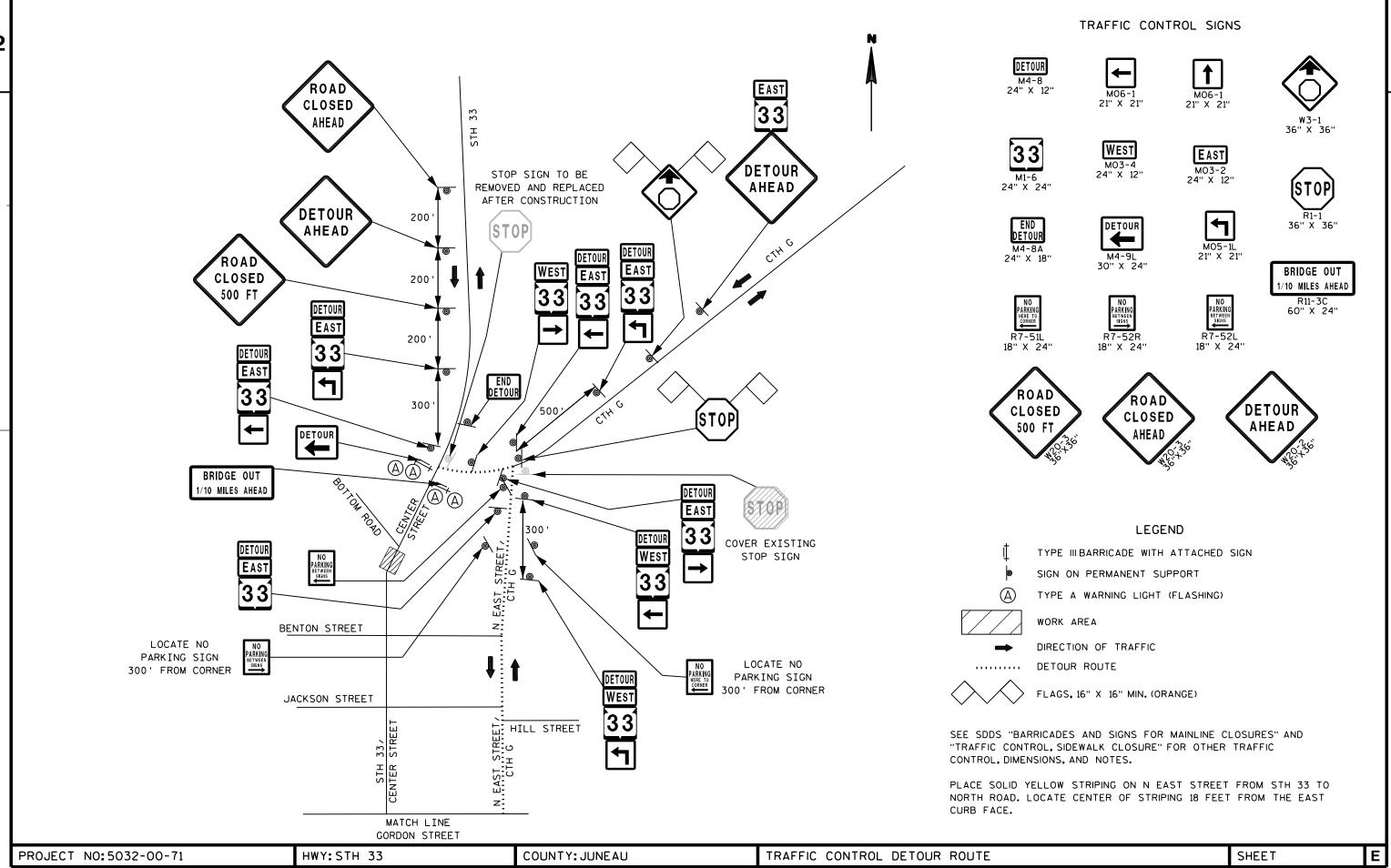
PLOT DATE: 1/29/2013

PLOT BY : Lrhodes

WISDOT/CADDS SHEET 42

SHEET





DATE 13	BMAR13	E S ⁻	TIMAT	E O F Q U A N	
LI NE NUMBER	ITEM	ITEM DESCRIPTION	UNI T	TOTAL	5032-00-71 QUANTI TY
0010	201. 0105	CLEARING	STA	1. 000	1. 000
0020	201. 0205	GRUBBI NG	STA	1.000	1.000
0030	203. 0500. S	REMOVING OLD STRUCTURE OVER WATERWAY (STATION) 01. STATION 10+00	LS	1. 000	1. 000
0040	204. 0110	REMOVING ASPHALTIC SURFACE	SY	260.000	260.000
0050	204. 0150	REMOVING CURB & GUTTER	LF	200. 000	200. 000
0060	204. 0155	REMOVING CONCRETE SIDEWALK	SY	115. 000	115. 000
0070	204. 0245	REMOVING STORM SEWER (SIZE) 01. 12-INCH	LF	15. 000	15. 000
0800	205. 0100	EXCAVATION COMMON	CY	39. 000	39. 000
0090	206. 2000	EXCAVATION FOR STRUCTURES CULVERTS (STRUCTURE) 01. C-29-11 REHAB	LS	1. 000	1. 000
0100	210. 0100	BACKFILL STRUCTURE	CY	65. 000	65. 000
0110	211. 0100	PREPARE FOUNDATION FOR ASPHALTIC PAVING	LS	1. 000	1. 000
0120	213. 0100	(PROJECT) 01. 5032-00-71 FINISHING ROADWAY (PROJECT) 01.	EACH	1. 000	1. 000
0130	305. 0125	5032-00-71 BASE AGGREGATE DENSE 1 1/4-INCH	CY	100.000	100. 000
0140	310. 0115	BASE AGGREGATE OPEN GRADED	CY	6. 000	6. 000
0150	465. 0105	ASPHALTI C SURFACE	TON	100.000	100. 000
0160 0170	502. 5002 502. 5005	MASONRY ANCHORS TYPE L NO. 4 BARS MASONRY ANCHORS TYPE L NO. 5 BARS	EACH EACH	24. 000 80. 000	24. 000 80. 000
0170	502. 5003	MASONRY ANCHORS TYPE L NO. 6 BARS	EACH	4. 000	4. 000
0190	504. 0100	CONCRETE MASONRY CULVERTS	CY	38. 000	38. 000
0200	505. 0610	BAR STEEL REINFORCEMENT HS COATED	LB	9, 110. 000	9, 110. 000
		CULVERTS			
0210	509. 1500	CONCRETE SURFACE REPAIR	SF	20.000	20.000
0220	516. 0500	RUBBERI ZED MEMBRANE WATERPROOFING	SY	130.000	130.000
0230	601. 0411	CONCRETE CURB & GUTTER 30-INCH TYPE D	LF SE	200.000	200.000
0240 0250	602. 0410 606. 0300	CONCRETE SIDEWALK 5-INCH RIPRAP HEAVY	SF CY	1, 200. 000 17. 000	1, 200. 000 17. 000
0260	608. 0412	STORM SEWER PIPE REINFORCED CONCRETE	LF	9. 000	9. 000
0270	608. 0415	CLASS IV 12-INCH STORM SEWER PIPE REINFORCED CONCRETE	LF	13. 000	13. 000
		CLASS IV 15-INCH			
0280	608. 0418	STORM SEWER PIPE REINFORCED CONCRETE CLASS IV 18-INCH	LF	6. 000	6. 000
0290	611. 0624	INLET COVERS TYPE H	EACH	6. 000	6. 000
0300	611. 3004	INLETS 4-FT DIAMETER	EACH	6. 000	6. 000
0310	611. 8110	ADJUSTING MANHOLE COVERS	EACH	1.000	1. 000
0320	619. 1000	MOBI LI ZATI ON	EACH	1.000	1.000
0330	625. 0500	SALVAGED TOPSOIL	SY	230. 000	230. 000
0340	627. 0200	MULCHI NG	SY	310.000	310.000
0350	628. 1504	SILT FENCE	LF	115. 000	115. 000
0360	628. 1520	SILT FENCE MAINTENANCE	LF	115.000	115.000
0370	628. 1905	MOBILIZATIONS EROSION CONTROL	EACH	2.000	2.000
0380 0390	628. 1910 628. 2008	MOBILIZATIONS EMERGENCY EROSION CONTROL EROSION MAT URBAN CLASS I TYPE B	EACH SY	2. 000 160. 000	2. 000 160. 000
0400	628. 7015	INLET PROTECTION TYPE C	EACH	6. 000	6. 000
0410	628. 7504	TEMPORARY DITCH CHECKS	LF	16. 000	16. 000
0420	629. 0205	FERTILIZER TYPE A	CWT	0. 200	0. 200
0430	630. 0140	SEEDING MIXTURE NO. 40	LB	6. 000	6. 000
0440	630. 0200	SEEDING TEMPORARY TREES (SPECIES, ROOT, SIZE) 01.	LB EACH	2. 000 2. 000	2. 000 2. 000
0450	632. 0101	JAPANESE LILAC, B & B, 2.5" CAL.	LAUII	2.000	2.000
0460	634. 0614	POSTS WOOD 4X6-INCH X 14-FT	EACH	1. 000	1. 000
U40U	034. UD14	PUSIS WUUD 4AO-INCH X 14-FI	EACH	1.000	1.000

DATE 13	BMAR13	EST	IMAT	TE OF QUAN	T I T I E S 5032-00-71
NUMBER	ITEM	I TEM DESCRIPTION	UNI T	TOTAL	QUANTI TY
0470	634. 0616	POSTS WOOD 4X6-INCH X 16-FT	EACH	1. 000	1. 000
0480	638. 2102	MOVING SIGNS TYPE II	EACH	4. 000	4. 000
0490	638. 3000	REMOVING SMALL SIGN SUPPORTS	EACH	2. 000	2. 000
0500	642. 5001	FIELD OFFICE TYPE B	EACH	1. 000	1. 000
0510	643. 0100	TRAFFIC CONTROL (PROJECT) 01. 5032-00-71	EACH	1. 000	1. 000
0520	643. 0410	TRAFFIC CONTROL BARRICADES TYPE II	DAY	384. 000	384.000
0530	643. 0420	TRAFFIC CONTROL BARRICADES TYPE III	DAY	736. 000	736. 000
0540	643. 0705	TRAFFIC CONTROL WARNING LIGHTS TYPE A	DAY	1, 600. 000	1, 600. 000
0550	643. 0900	TRAFFIC CONTROL SIGNS	DAY	608. 000	608. 000
0560	643. 0920	TRAFFIC CONTROL COVERING SIGNS TYPE II	EACH	4. 000	4. 000
0570	643. 2000	TRAFFIC CONTROL DETOUR (PROJECT) 01. 5032-00-71	EACH	1. 000	1. 000
0580	643.3000	TRAFFIC CONTROL DETOUR SIGNS	DAY	1, 856. 000	1, 856. 000
0590	645, 0111	GEOTEXTILE FABRIC TYPE DF SCHEDULE A	SY	85.000	85.000
0600	645. 0120	GEOTEXTILE FABRIC TYPE HR	SY	50. 000	50.000
0610	646. 0106	PAVEMENT MARKING EPOXY 4-INCH	LF	5, 700. 000	5, 700. 000
0620	647. 0456	PAVEMENT MARKING CURB EPOXY	LF	100. 000	100.000
0630	650. 4000	CONSTRUCTION STAKING STORM SEWER	EACH	6. 000	6. 000
0640	650. 5000	CONSTRUCTION STAKING BASE	LF	100.000	100.000
0650	650. 5500	CONSTRUCTION STAKING CURB GUTTER AND CURB & GUTTER	LF	200. 000	200. 000
0660	650. 9910	CONSTRUCTION STAKING SUPPLEMENTAL CONTROL (PROJECT) 01. 5032-00-71	LS	1. 000	1.000
0670	690. 0150	SAWING ASPHALT	LF	66. 000	66.000
0680	690, 0250	SAWI NG CONCRETE	LF	30.000	30,000
0690	715.0502	INCENTIVE STRENGTH CONCRETE STRUCTURES	DOL	500.000	500.000
0700	SPV. 0060	SPECIAL 01. STORM SEWER PENETRATION	EACH	3. 000	3. 000
0710	SPV. 0105	SPECIAL 01. RAILING TUBULAR TYPE F-4 MODIFIED C-29-11 REHAB.	LS	1. 000	1.000

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	CLEARIN	NG AND GRUBB	ING				PREPARE FOUN	IDATION			
CATEGORY 0010	STATION 10+00 - 10+50	LOCATION LT & RT	201.0105 CLEARING STA 1	201.0205 GRUBBING STA 1	C	ATEGORY	PROJECT	PRE FOUNDA ASPHALI	0100.01 EPARE ATION FOR TIC PAVING LS		
	TOTAL	<u> </u>	1	1		0010	5032-00-71		1		
							TOTAL		1		
	REMOVING	G PAVEMENT									
				1.0110			FINISHING ROA	.DWAY			
CATEGORY	STATION	LOCA	ASP SUF	MOVING HALTIC RFACE SY				FINIS	0100.01 SHING		
0010	9+50 - 9+85 10+15 - 10+50	LT &	RT ^	130 130	CA	ATEGORY 0010	PROJECT 5032-00-71	EA	DWAY ACH 1		
	TC	DTAL	2	260			TOTAL		1		
	REMOVING	CURB & GUTTE	:R								
	TKEINIOVIITO	00112		04.0150			BAS	SE AGGRE	GATE ITEMS	205 0425	_
CATEGORY	STATION	1000	REI C	MOVING CURB & CUTTER LF						305.0125 BASE AGGREGATE DENSE 1 1/4-INCH	
0010	9+50 - 10+50	L	Т	100	CA	ATEGORY 0010	STATION 9+50 - 10+5		LOCATION	CY 85	<u> </u>
	9+50 - 10+50	OTAL R		200			9+18 - 10+6 9+50 - 10+3	64 L	T - SIDEWALK T - SIDEWALK	10 5	
	ic.	JIAL		200				TOTAL		100	_
	REMO	VING SIDEWALI	K								
				204.0155			ASPHALTIC S	SURFACE		_	
CATEGORY	STATION	ı	LOCATION	REMOVING CONCRETE SIDEWALK SY					465.0105 ASPHALTIC SURFACE		
0010	9+18 - 10+6 9+50 - 10+3	i4	LT RT	67 48	_ <u>C</u>	ATEGORY 0010	STATIO 9+50 - 10		TON 100	-	
		TOTAL		115			TOTAL	L	100	-	
	DEMOV/N	O STODM SEMI	- D						CURB AND GUT	TED	
		G STORM SEWE	20 RE STOI	4.0245.01 EMOVING RM SEWER 12-INCH					CORD AND GUT	601.0411 CONCRETE CURB & GUTTER 30-INCH	650.5500 CONSTRUCTION STAKING CURB GUTTER
CATEGORY 0010	STATION 10+06 - 10+21	LOCA L		15		CATEGORY		- STATION	LOCATION	TYPE D LF	AND CURB & GUTT LF
	TC	DTAL		15		0010		- 10+50 - 10+50	LT RT	100 100	100 100

CATEGORY 0010	STATION 9+18 - 10+64 9+50 - 10+37	LOCATION LT RT	602.0410 CONCRETE SIDEWALK 5-INCH SF 750 450
	TOTAL		1,200

CONCRETE SIDEWALK

STORM SEWER PIPES

		608.0412	608.0415	608.0418
		STORM SEWER	STORM SEWER	STORM SEWER
		PIPE	PIPE	PIPE
		REINFORCED	REINFORCED	REINFORCED
		CONCRETE	CONCRETE	CONCRETE
	STRUCTURE	CLASS IV	CLASS IV	CLASS IV
	TO	12-INCH	15-INCH	18-INCH
CATEGORY	STRUCTURE	LF	LF	LF
0010	1.1 - 1.2		4	
	1.2 - C-29-11			6
	C-29-11 - 1.3		4.5	
	1.3-1.4	4.5		
	C-29-11 - 1.5		4.5	
	1.5-1.6	4.5		
	TOTAL	9	13	6

	EXCAVATION	EII (4)	EXPANDED	DODDOW
OTATION	COMMON	FILL (1)	FILL (2)	BORROW
STATION	CY	CY	CY	CY
9+18				
	6	0	0	-6
9+50				
	7	2	3	-4
9+75				
	5	2	3	-2
9+93				
	STRU	JCTURE C-29-	0011	
10+07				
	9	0	0	-9
10+25				
	6	0	0	-6
10+37				
	4	0	0	-4
10+50	·	Ü	Ü	·
.0.00	2	0	0	-2
10+64	2	J	U	-2
TOTALS	39	4	6	-33
IOIALS	39	4	0	-33
	ID ITEM - FOR IN			

(2) - FILL EXPANSION 30%

COUNTY: JUNEAU MISCELLANEOUS QUANTITIES

200

SHEET

FILE NAME : P:\90s\93\00093171\codd\DOT\Planshts\93171_MQ.dgn

HWY: STH 33

PLOT DATE : 12/28/2012

TOTAL

PLOT BY : Lrhodes

200

PLOT NAME :

PLOT SCALE : 1:200

PROJECT NO: 5032-00-71

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- 4
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	STORM SEWER STRUCTURES												
					TOP OF			611.3004 INLETS 4-FT DIAMETER	611.0624 INLET COVERS TYPE H	650.4000 CONSTRUCTION STAKING STORM			
	STRUCTURE			GRATE	STRUCTURE	INVERT	STRUCTURE			SEWER			
CATEGORY	NO.	STATION	LOCATION	ELEV.	ELEV.	ELEV.	DEPTH	EACH	EACH	EACH			
0010	1.1	9+78.00	17.88' RT	916.67	915.67	913.30	2.37	1	1	1			
	1.2	9+86.00	17.82' RT	916.62	915.62	913.01	2.61	1	1	1			
	1.3	10+12.50	17.62' RT	916.52	915.52	913.11	2.41	1	1	1			
	1.4	10+21.00	17.56' RT	916.53	915.53	913.41	2.12	1	1	1			
	1.5	10+12.50	18.33' LT	916.51	915.51	912.68	2.83	1	1	1			
	1.6	10+21.00	18.26' LT	916.52	915.52	912.86	2.66	1	1	1			
					PF	ROJECT TOT	AL	6	6	6			

RESTORATION ITEMS

			625.0500 SALVAGED TOPSOIL	627.0200 MULCHING	629.0205 FERTILIZER TYPE A	630.0140 SEEDING MIXTURE #40	630.0200 SEEDING TEMPORARY	
CATEGORY	STATION - STATION	LOCATION	SY	SY	CWT	LB	LB	REMARKS
0010	9+18 - 10+64	LT	120	190	0.12	4		
	9+50 - 10+37	RT	110	120	0.08	2		
	9+85 - 9+93	LT					1	BEHIND WING
	10+07 - 10+15	LT					1	BEHIND WING
	TOTAL		230	310	0.20	6	2	

EROSION CONTROL ITEMS

			628.1504 SILT FENCE	628.1520 SILT FENCE MAINTENANCE	628.2008 EROSION MAT URBAN CLASS I TYPE B	628.7504 TEMPORARY DITCH CHECKS	
CATEGORY	STATION - STATION	LOCATION	LF	LF	SY	LF	REMARKS
0010	9+18 - 9+82	LT	65	65			
	10+14 - 10+64	LT	50	50			
	9+50 - 10+50	LT			75		
	9+50 - 10+50	RT			75		
	9+85 - 9+93	LT			5		BEHIND WING
	10+07 - 10+15	LT			5		BEHIND WING
	9+86	LT				8	BTWN. WING TIP AND SILT FENCE
	10+10	LT				8	BTWN. WING TIP AND SILT FENCE
	TOTAL		115	115	160	16	

ΔD	II ISTING	MANHOL	FS

			611.8110
			ADJUSTING
			MANHOLE
			COVERS
CATEGORY	STATION	LOCATION	EACH
0010	9+84.56	3.5' LT	1
	TOT	AL	1

INLET PROTECTION

			628.7015 INLET PROTECTION TYPE C
CATEGORY	STATION - STATION	LOCATION	EACH
0010	9+78.00	17.88' RT	1
	9+86.00	17.82' RT	1
	10+12.50	17.62' RT	1
	10+21.00	17.56' RT	1
	10+12.50	18.33' LT	1
	10+21.00	18.26' LT	1
	TOTAL		6

MOBILIZATION EROSION CONTROL

		628.1905	628.1910
		MOBILIZATION	MOBILIZATION
		EROSION	EMERGENCY
		CONTROL	EROSION
			CONTROL
CATEGORY	LOCATION	EACH	EACH
0010	PROJECT LIMITS	2	2
	TOTAL	2	2

TREE SUMMARY

			632.0101.01
			TREES (JAPANESE
			LILAC, B&B, 2.5" CAL)
	CATEGORY	LOCATION	EACH
	0010	COORDINATE WITH VILLAGE	2
-		TOTAL	2

HWY: STH 33 PROJECT NO: 5032-00-71 FILE NAME : P:\90s\93\00093171\codd\DOT\Planshts\93171_MQ.dgn

COUNTY: JUNEAU

MISCELLANEOUS QUANTITIES PLOT BY : Lrhodes

PLOT NAME :

PLOT SCALE : 1:200

PLOT DATE : 12/28/2012

SHEET

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CATEGORY	SIGN NO.	FROM STATION	FROM OFFSET	TO STATION	TO OFFSET	638.2102 MOVING SIGNS TYPE II EACH	638.3000 REMOVING SMALL SIGN SUPPORTS EACH	634.0614 POSTS WOOD 4X6-INCH X 14-FT EACH	634.0616 POSTS WOOD 4X6-INCH X 16-FT EACH	MESSAGE	REMARKS
0010	M1-5A	10+09	20.2' RT	10+12	21.5' RT	1	1		1	CTH G	REPLACE WOOD POST
	M5-1R	10+09	20.2' RT	10+12	21.5' RT	1				RIGHT ARROW	
	R1-1	NORTH END OF	DETOUR ROUTE			1	1	1		STOP	SALVAGE, STORE, & REPLACE EXISTING SIGN ON NEW POST
	R1-1	SOUTH END OF	DETOUR ROUTE			1				STOP	SALVAGE, STORE, & REPLACE EXISTING SIGN ON EXISTING POST
	Т	OTAL				4	2	1	1		

MOVING SIGNS

			TRAFFIC (CONTROL ITEMS				
				643.0410		643.0420		643.0705
			TRAFFIC	TRAFFIC	TRAFFIC	TRAFFIC	TRAFFIC	TRAFFIC
			CONTROL	CONTROL	CONTROL	CONTROL	CONTROL	CONTROL
			BARRICADES	BARRICADES	BARRICADES	BARRICADES	WARNING	WARNING
			TYPE II	TYPE II	TYPE III	TYPE III	LIGHTS	LIGHTS
							TYPE A	TYPE A
CATEGORY	LOCATION	DAYS	EACH	DAYS	EACH	DAYS	EACH	DAYS
0010	DETOUR ROUTE & MAINLINE	32	12	384	23	736	50	1600
	TOTAL			384		736		1,600

CONSTRUCTION STAKING						
		650.5000 CONSTRUCTION STAKING BASE	650.9910 CONSTRUCTION STAKING SUPPLEMENTAL			
CATEGORY	STATION	LF	CONTROL			
0010	9+50 - 10+50	100	1			
	TOTAL	100	1			

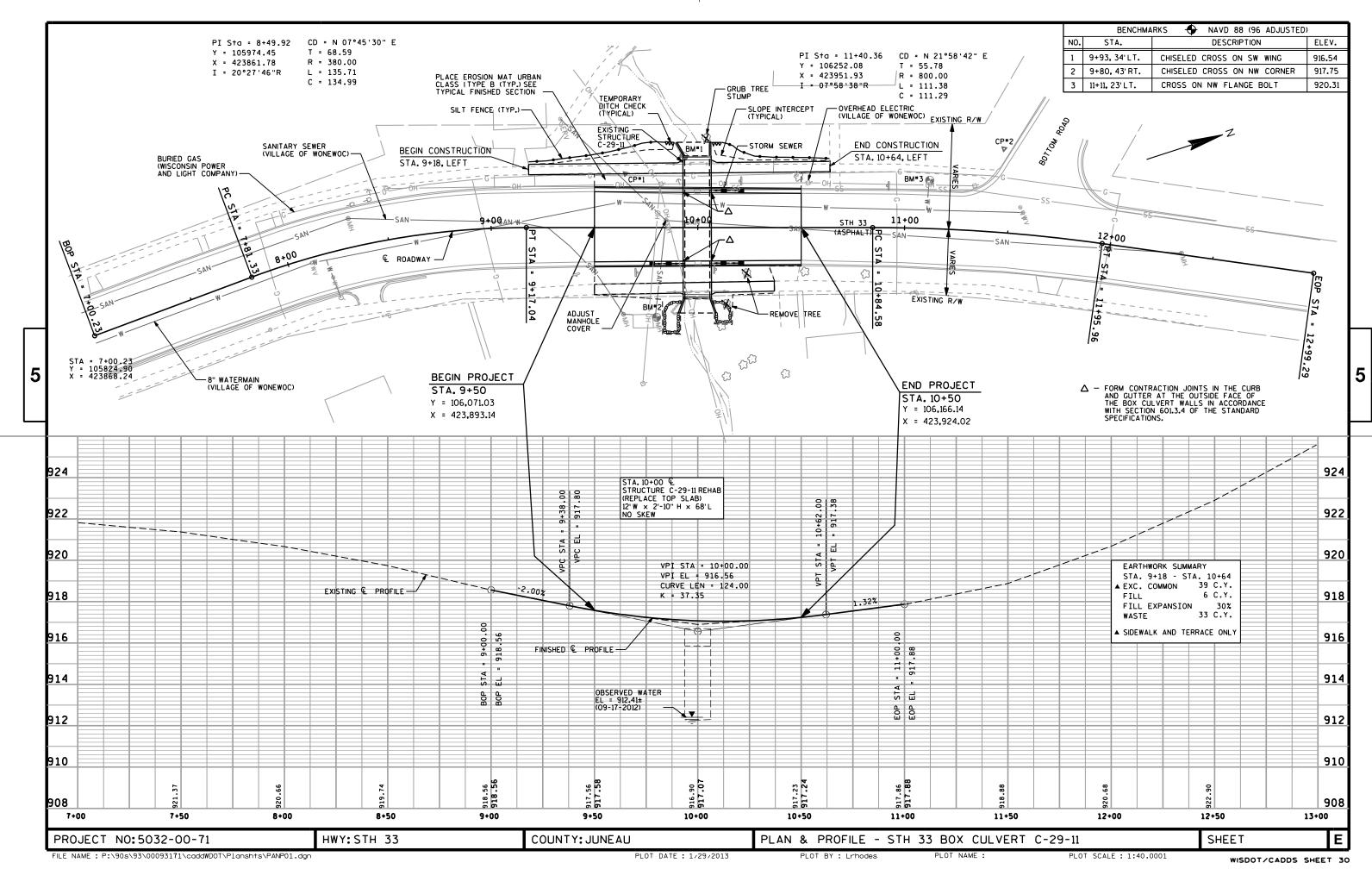
		TRA	FFIC CONTROL	SIGNS			
				643.0900		643.3000	643.0920
			TRAFFIC	TRAFFIC	TRAFFIC	TRAFFIC	TRAFFIC
			CONTROL	CONTROL	CONTROL	CONTROL	CONTROL
			SIGNS	SIGNS	DETOUR	DETOUR	COVERING
					SIGNS	SIGNS	SIGNS
							TYPE II
CATEGORY	LOCATION	DAYS	EACH	DAYS	EACH	DAYS	EACH
0010	DETOUR ROUTE & MAINLINE	32	19	608	58	1,856	4
	TOTAL			608		1,856	4

		SAWING		
			690.0150	690.0250
			SAWING	SAWING
			ASPHALT	CONCRETE
CATEGORY	STATION	LOCATION	LF	LF
0010	9+18	LT - SIDEWALK		5
	9+50	LT & RT	34	10
	10+37	RT - SIDEWALK		5
	10+50	LT & RT	32	5
	10+64	LT - SIDEWALK		5
	TOTAL		66	30

		PAVEMENT MARKING		
			646.0106	647.0456
			PAVEMENT	PAVEMENT
			MARKING	MARKING
			EPOXY	CURB
			4-INCH	EPOXY
			YELLOW	YELLOW
CATEGORY	STATION - STATION	LOCATION	LF	LF
0010	9+50 - 10+50	CENTERLINE - DOUBLE	200	
	9+50 - 10+50	LT		100
	DETOUR ROUTE	CENTERLINE - DOUBLE	5500	
	TC	OTAL	5,700	100

			SPV.0060.01
			STORM
			SEWER
			PENETRATION
CATEGORY	STATION	LOCATION	EACH
0010	9+93	17' RT	1
	10+07	19' LT	1
	10+07	17' RT	1
	Т	OTAL	3

HWY: STH 33 COUNTY: JUNEAU MISCELLANEOUS QUANTITIES SHEET PROJECT NO: 5032-00-71 FILE NAME : P:\90s\93\00093171\codd\DOT\Planshts\93171_MQ.dgn PLOT NAME :

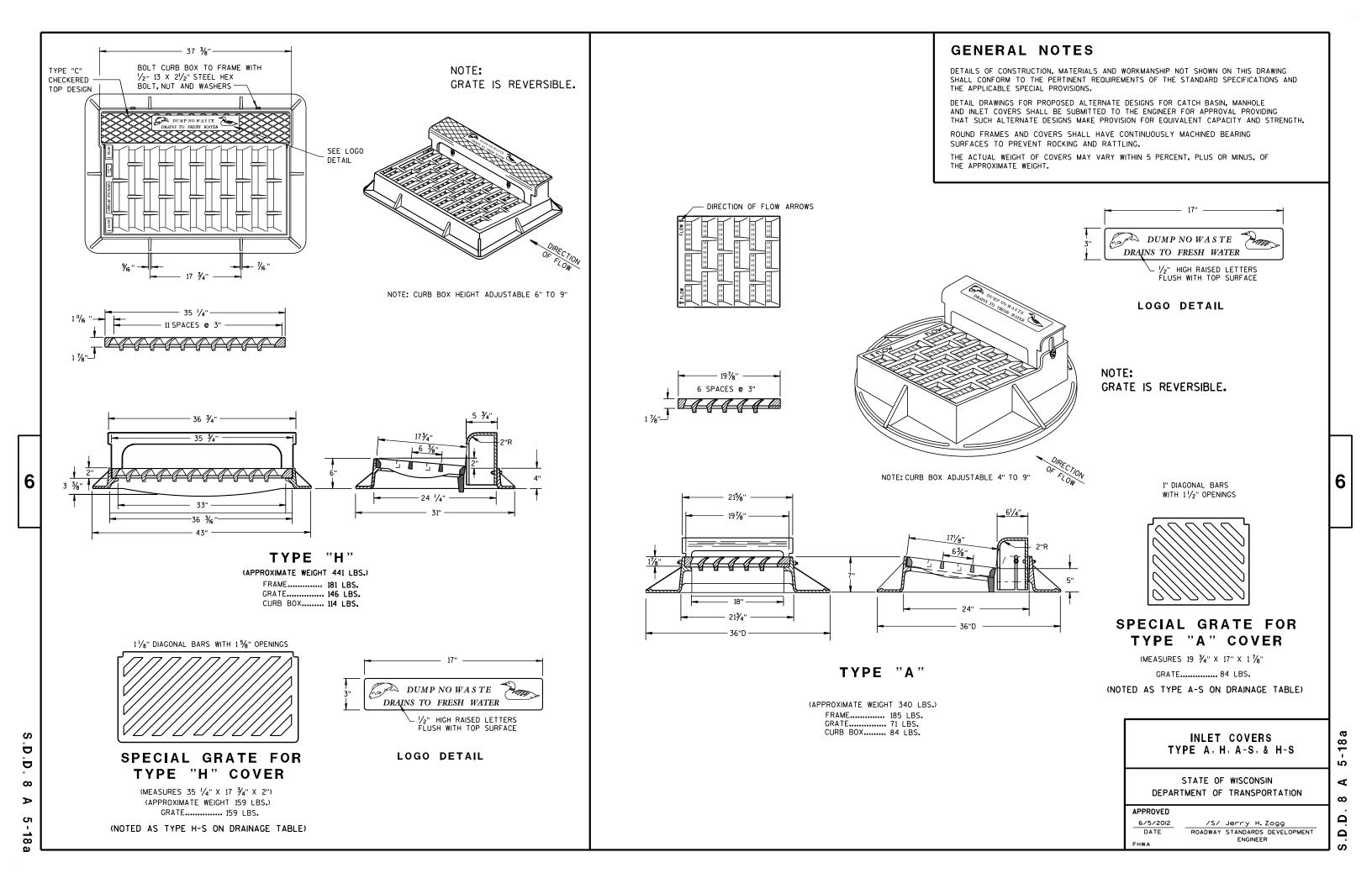


Standard Detail Drawing List

08A05-18A	INLET COVERS TYPE A, H, A-S, & H-S
08C06-01	INLETS 3-FT AND 4-FT DIAMETER
08D01-17	CONCRETE CURB, CONCRETE CURB AND GUTTER AND TIES
08E08-03	TYPICAL INSTALLATIONS OF EROSION BALES / TEMPORARY DITCH CHECKS
08E09-06	SILT FENCE
08E10-02	INLET PROTECTION TYPE A, B, C AND D
12A03-10	NAME PLATE (STRUCTURES)
14A02-01	TREE PLANTING DETAIL
15C02-04A	BARRICADES AND SIGNS FOR MAINLINE CLOSURES
15C02-04B	BARRICADES AND SIGNS FOR MAINLINE CLOSURES
15C02-04C	DETOUR SIGNING FOR MAINLINE CLOSURES
15C08-15A	PAVEMENT MARKING (MAINLINE)
15D30-01	TRAFFIC CONTROL, SIDEWALK CLOSURE

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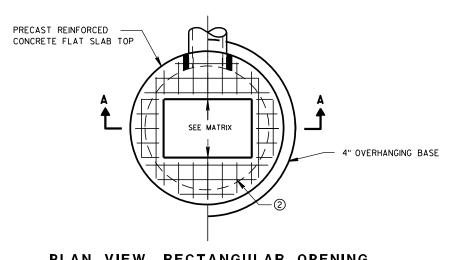
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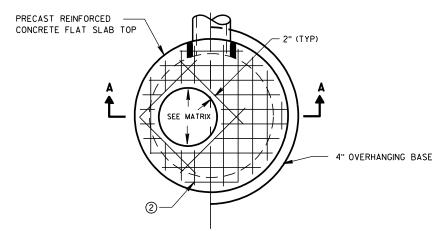


CONCRETE WITH

MONOLITHIC BASE







PLAN VIEW RECTANGULAR OPENING

PLAN VIEW CIRCULAR OPENING

JOINTS TO BE SEALED WITH A BUTYL RUBBER SEAL PER

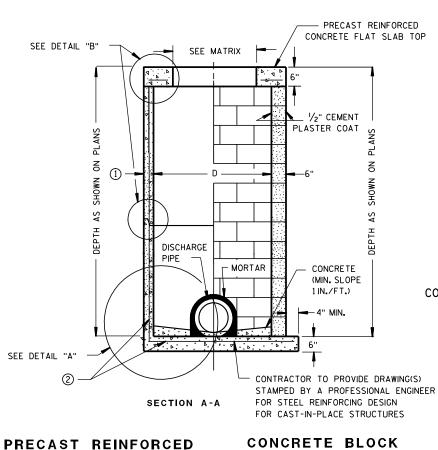
CONFORMING TO ASTM C990 (TYP)

D . D

TOP WITH PLAIN END JOINT

SEALANT MANUFACTURERS

RECOMMENDATIONS



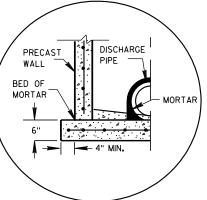
CIRCULAR INLETS W/ FLAT TOP

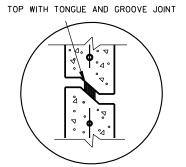
WITH CAST-IN-PLACE

OR PRECAST REINFORCED

CONCRETE BASE 2

DISCHARGE PRECAST REINFORCED CONCRETE WITH INTEGRAL BASE OPTION PRECAST





SEPERATE PRECAST REINFORCED CONCRETE BASE OPTION

RISER WITH TONGUE AND GROOVE JOINT

DETAIL "A"

DETAIL "B"

INLETS 3-FT AND 4-FT DIAMETER

GENERAL NOTES

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

UNLESS OTHERWISE AUTHORIZED IN WRITING BY THE ENGINEER, THE CONTRACTOR SHALL NOT ORDER AND DELIVER PRECAST INLET UNITS REQUIRED FOR THE PROJECT UNTIL A LIST OF SIZES IS FURNISHED BY THE ENGINEER.

DETAILED DRAWINGS FOR PROPOSED ALTERNATE DESIGNS FOR UNDERGROUND DRAINAGE STRUCTURES SHALL BE SUBMITTED TO THE ENGINEER FOR APPROVAL PROVIDING THAT SUCH ALTERNATE DESIGNS MAKE PROVISION FOR EQUIVALENT CAPACITY AND STRENGTH.

ALL DRAINAGE STRUCTURES ARE DESIGNATED ON THE PLANS AS "MANHOLES 3X3-L", "CATCH BASINS 4-B", "INLETS 2X3-H", ETC. THE FIRST NUMBERS DESIGNATE THE SIZE OF THE STRUCTURE, AND THE FOLLOWING LETTER DESIGNATES THE TYPE OF COVER TO BE USED TO COMPRISE THE COMPLETE UNIT.

BASES SHALL BE PLACED ON A BED OF MATERIAL AT LEAST 6 INCHES IN DEPTH. WHICH MEETS THE REQUIREMENTS OF GRANULAR BACKFILL. THIS BEDDING SHALL BE COMPACTED AND PROVIDE UNIFORM SUPPORT FOR THE ENTIRE AREA OF THE BASE.

ALL BAR STEEL REINFORCEMENT SHALL BE EMBEDDED 2 INCHES CLEAR UNLESS OTHERWISE SHOWN OR NOTED.

ALL PRECAST INLET UNITS SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF AASHTO DESIGNATION M199.

PRECAST REINFORCED RISERS SHALL HAVE A TONGUE AND GROOVE JOINT WITH TONGUE UP OR DOWN.

4" OVERHANGING BASES ARE REQUIRED FOR ALL CONCRETE BLOCK INSTALLATIONS. 4" OVERHANG IS REQUIRED WHEN SEPERATE PRECAST BASE IS PROVIDED. OVERHANG IS NOT REQUIRED ON PRECAST STRUCTURES WITH AN INTEGRAL OR MONOLITHIC BASE.

FOR ADDITIONAL CONFIGURATIONS, MAINTAIN A MINIMUM OF 12 INCHES AS MEASURED FROM THE INSIDE OF THE STRUCTURE WALL BETWEEN THE OUTSIDE PIPE WALLS OF ADJACENT PIPES. SEE DETAIL "C".

- ① MINIMUM WALL THICKNESS SHALL BE 4-IN FOR 3-FT DIAMETER AND 5-IN FOR 4-FT DIAMETER PRECAST INLETS.
- 2 FOR PRECAST CATCH BASINS PROVIDE REINFORCING STEEL IN ACCORDANCE TO AASHTO M199.

INLET COVER OPENING MATRIX

	INLET COVER TYPE	ALL A'S	ALL B'S	BW	С	F	ALL H'S	s	T	٧	WM	Z
INLET SIZE	OPENING SIZE (FT)											
3-FT	2 DIA.				Х							Х
	2X2	Х	х					Х		Х		
4-FT	2 DIA.				Х							Х
	2X2	х	х					Х		×		
	2X2 . 5			Х				Х	Х	Х	Х	
	2X3						х					
	2.5X3					Х						

OUTSIDE PIPE WALL (TYP)

DETAIL "C"

PIPE MATRIX

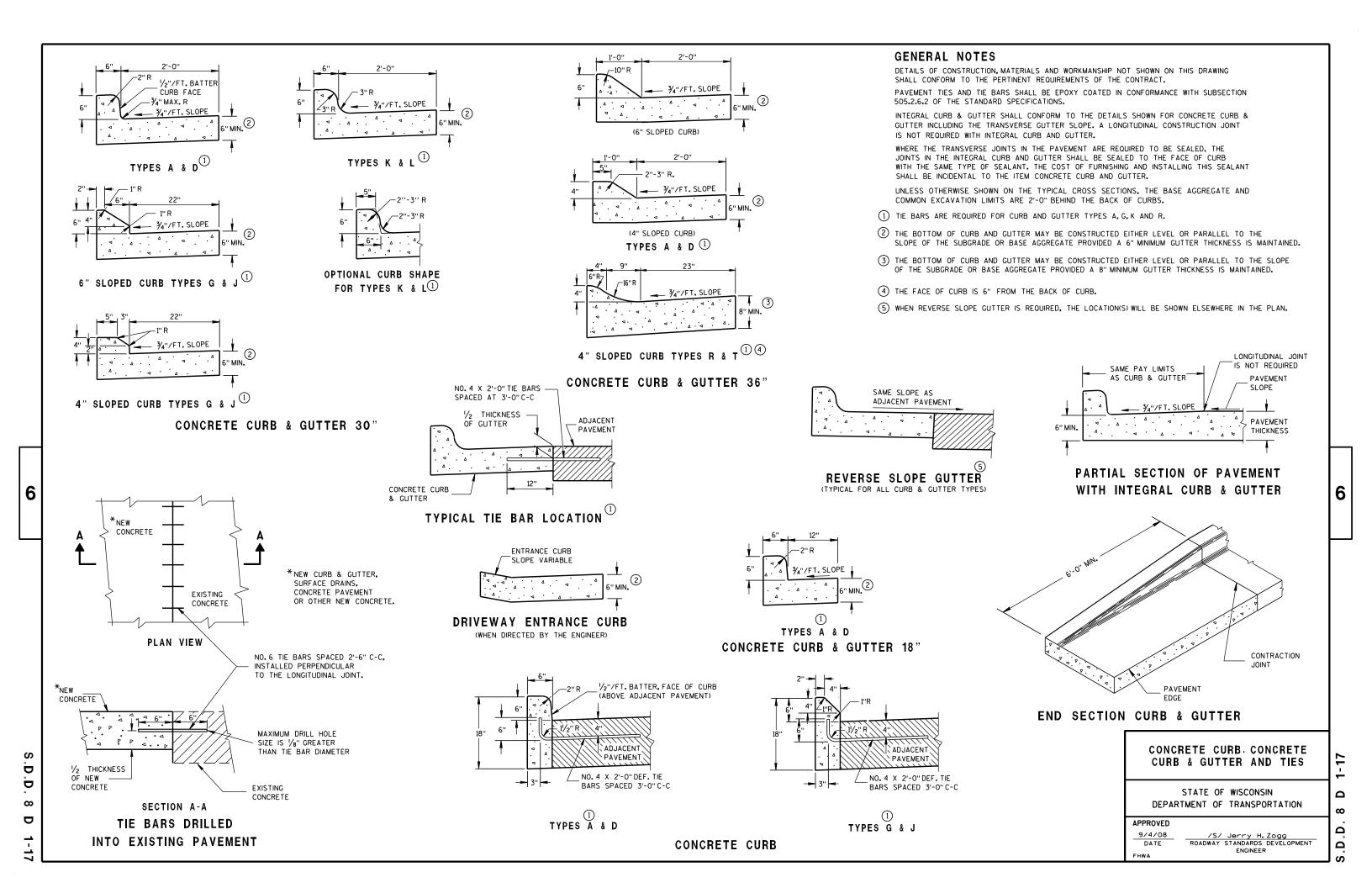
INLET	MAXIMUM INSIDE PIPE DIAMETER FOR TWO PIPES						
SIZE	180° SEPARATION (IN)	90° SEPARATION (IN)					
3-FT	15	12					
4-FT	24	18					

INLETS 3-FT AND 4-FT DIAMETER

STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION

APPROVED	
6/5/2012	/S/ Jerry H.Z
DATE	ROADWAY STANDARDS D

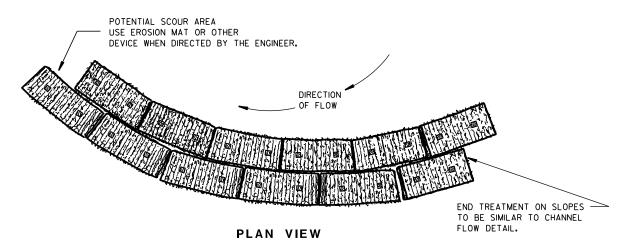
DEVELOPMENT ENGINEER



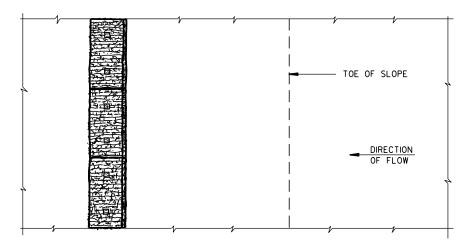
GENERAL NOTES

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

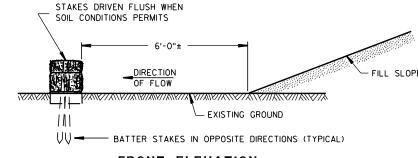
TEMPORARY DITCH CHECKS EITHER EROSION BALES OR MANUFACTURED SHALL BE PAID FOR UNDER THE BID ITEM OF TEMPORARY DITCH CHECK. THE DEPARTMENT WILL NOT PAY FOR TEMPORARY DITCH CHECKS CONSTRUCTED OF A SINGLE ROW OF EROSION BALES.



WHEN ALTERING THE DIRECTION OF FLOW



PLAN VIEW



FRONT ELEVATION

WHEN EXISTING GROUND SLOPES AWAY FROM FILL SLOPE

EROSION BALES FOR SHEET FLOW

TYPICAL INSTALLATIONS OF **EROSION BALES / TEMPORARY** DITCH CHECKS

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STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION

APPROVED

6/04/02 /S/ Beth Connestro
CHIEF ROADWAY DEVELOPMENT ENGINEER

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TYPICAL APPLICATION OF SILT FENCE

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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 11/8" X 11/8" 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 TIE BACK

(WHEN REQUIRED BY THE ENGINEER)



SILT FENCE

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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

STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION

APPROVED

10/16/02

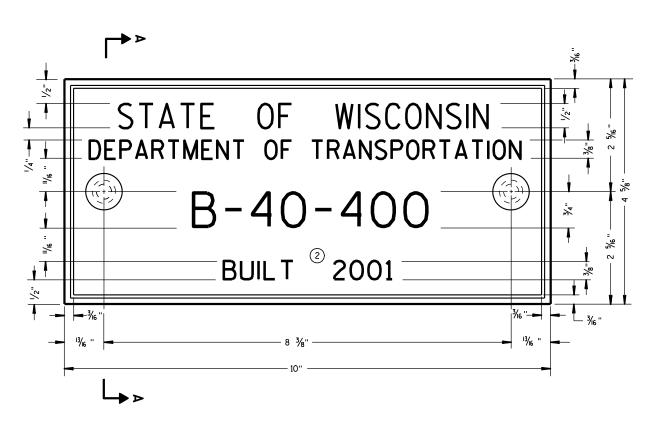
/S/ Beth Cannestra CHIEF ROADWAY DEVELOPMENT ENGINEER 6

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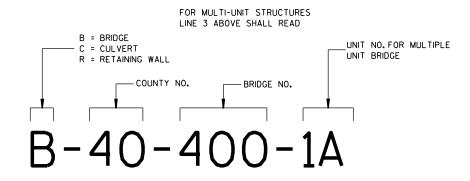
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TYPICAL NAME PLATE

(BRIDGES, CULVERTS, AND RETAINING WALLS)



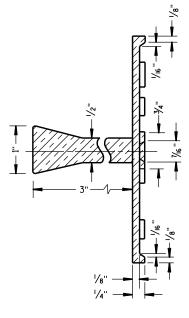
NUMBERING DESIGNATION MULTI-UNIT STRUCTURES

GENERAL NOTES

NAME PLATES TO BE INSTALLED ON BRIDGES, CULVERTS, AND RETAINING WALLS SHALL CONFORM TO THE REQUIREMENTS OF SECTION 502.3.11 OF THE STANDARD SPECIFICATIONS.

THE BRIDGE NUMBER AND YEAR BUILT SHOWN ON THIS DRAWING ARE EXAMPLES ONLY. SEE CONSTRUCTION PLANS FOR INDIVIDUAL NUMBERING AND YEAR BUILT.

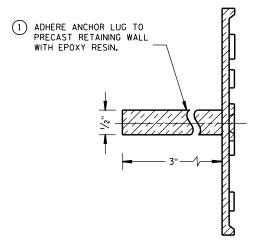
- 1 EPOXY RESIN SHALL BE FROM AN APPROVED MANUFACTURER AND USED IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS.
- (2) REHABILITATION OF AN EXISTING STRUCTURE SHOULD USE THE DATE OF ORIGINAL STRUCTURE CONSTRUCTION.



SPREAD OPEN SO THE TOP OF LUG IS 11/4" WIDE

SECTION A-A

ALTERNATE LUG



ALTERNATE LUG

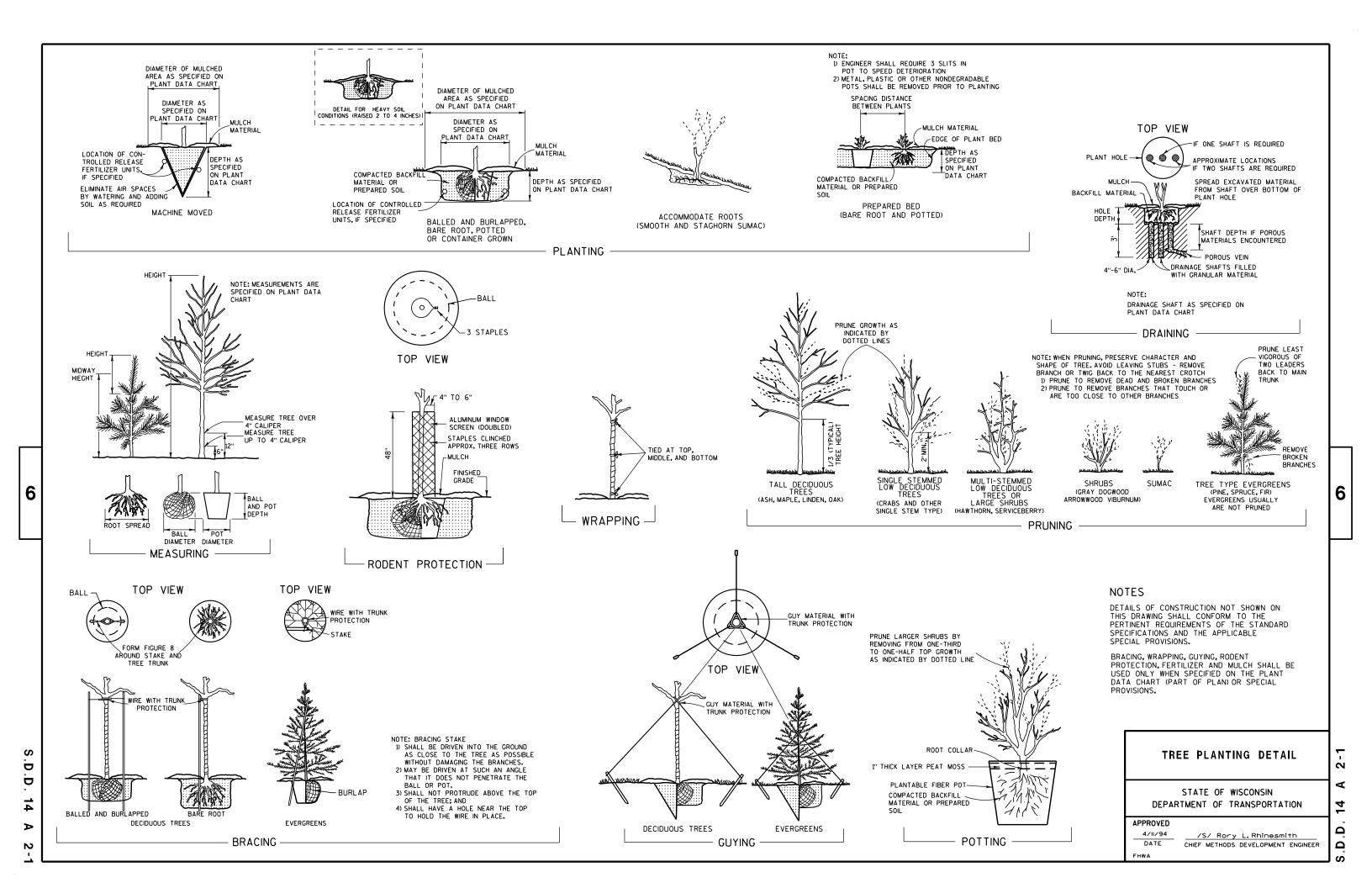
(FOR ATTACHMENT TO PRECAST STRUCTURES)

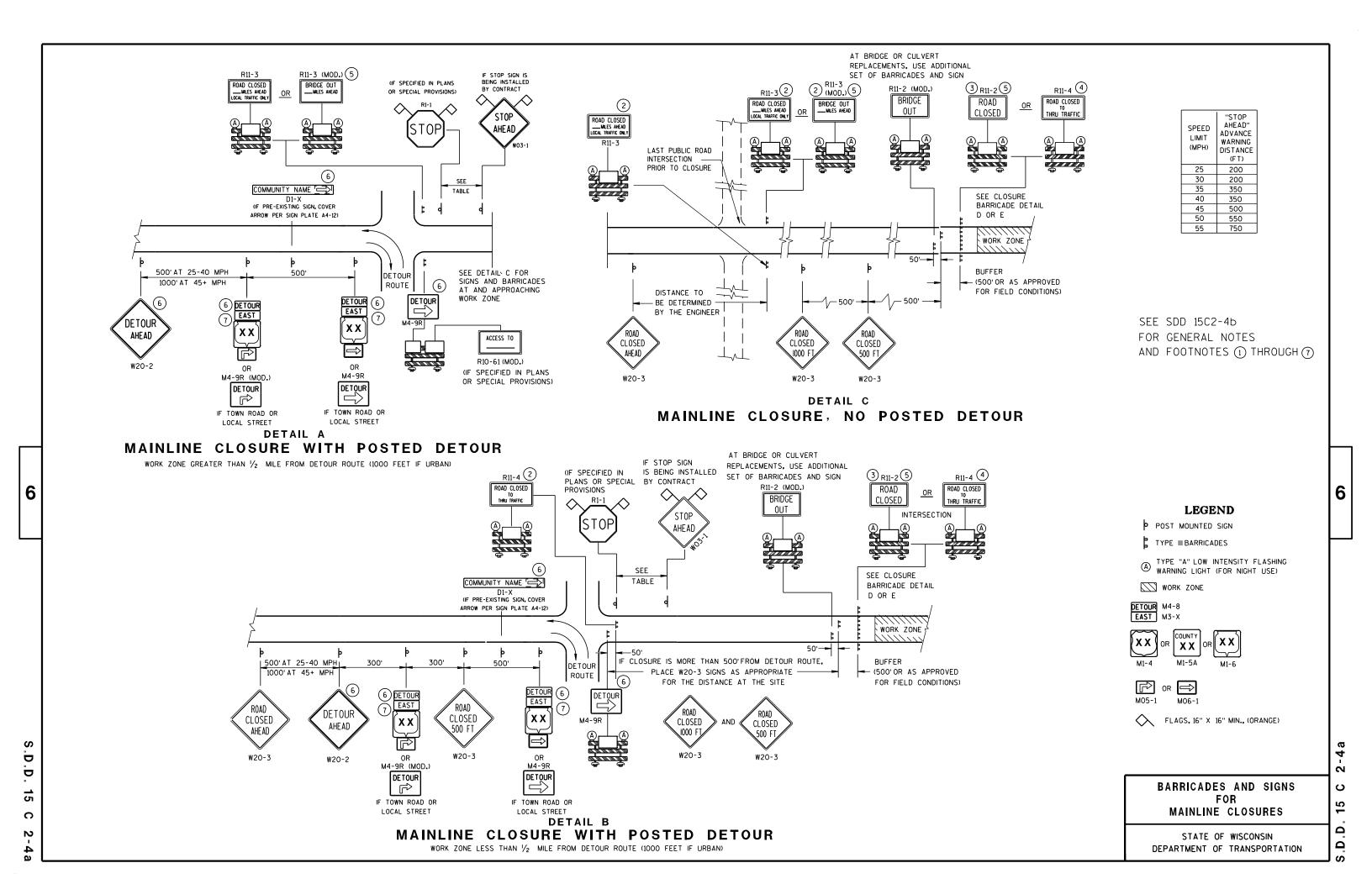
NAME PLATE (STRUCTURES)

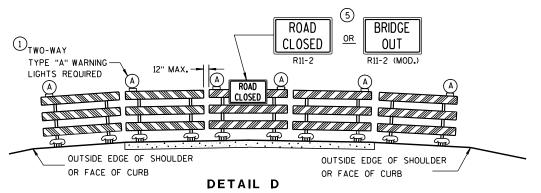
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED

 D. 12 A 3-10

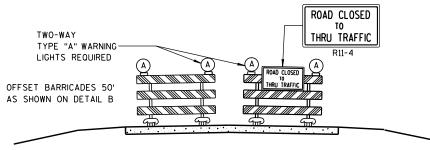






ROAD CLOSURE BARRICADE DETAIL

APPROACH VIEW



DETAIL E LANE CLOSURE BARRICADE DETAIL APPROACH VIEW

SEE SDD 15C2-4a FOR LEGEND

GENERAL NOTES

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

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.

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.

BARRICADES 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.

SIGNS THAT WILL BE IN PLACE LESS THAN 7 CONTINUOUS DAYS AND NIGHTS MAY BE MOUNTED ON PORTABLE SUPPORTS.

ALL TYPE III BARRICADES SHALL HAVE RAILS REFLECTORIZED ON BOTH FACES. STRIPES SHALL BE PROPERLY SLOPED DOWN TOWARD THE TRAFFIC SIDE OR AS SHOWN IN THE ROAD CLOSURE BARRICADE DETAIL D FOR FULL ROAD CLOSURES.

TYPE "A" LOW-INTENSITY FLASHING WARNING LIGHTS SHALL BE VISIBLE ON BOTH SIDES OF THE BARRICADE.

THE R11-2, R11-3, M4-9, R11-4 AND R10-61 SIGNS PLACED ON BARRICADES SHALL COVER NO MORE THAN THE TOP RAIL. THE SIGNS SHALL NOT COVER ANY PORTION OF THE MIDDLE OR BOTTOM RAILS.

THE REFLECTIVE SHEETING USED ON R11-2, R11-3, R11-4, R10-61 AND R1-1 SIGNS SHALL COMPLY WITH SUBSECTION 637.2.2.2 OF THE STANDARD SPECIFICATIONS.

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

ALL SIGNS SHALL BE 48" X 48" UNLESS OTHERWISE NOTED BELOW:

R11-2 SHALL BE 48" X 30".

R11-3, R11-4 AND R10-61 SHALL BE 60" X 30".

M4-9 SHALL BE 30" X 24".

M3-X AND M4-8 SHALL BE 24" X 12" (30" X 15" IF NEEDED TO MATCH EXISTING SIGNS.) M1-4, M1-5A, AND M1-6 SHALL BE 24" X 24". (36" X 36" IF NEEDED TO MATCH EXISTING SIGNS.) MO5-1 AND MO6-1 SHALL BE 21" X 21". (30" X 30" IF NEEDED TO MATCH EXISTING SIGNS.) D1-X SHALL BE AS SHOWN ON SPECIFIC PROJECT SIGNING DETAIL SHEETS. R1-1 SHALL BE 36" X 36".

- (1) TWO WARNING LIGHTS SHALL BE PROVIDED ON THE CENTER BARRICADE AND A MINIMUM OF ONE WARNING LIGHT SHALL BE PROVIDED ON EACH OF THE OTHER BARRICADES WITHIN THE ROADWAY LIMITS. SPACING OF THE WARNING LIGHTS SHALL BE UNIFORM TO THE EDGE OF ROADWAY AS SHOWN (APPROX.8-FOOT LIGHT SPACING).
- THESE SIGNS AND BARRICADES ARE NOT REQUIRED IF ROAD CLOSURE BEGINS AT INTERSECTION.
- (3) FOR ROAD CLOSURE <u>WITHOUT</u> LOCAL ACCESS TO PROJECT, SEE ROAD CLOSURE BARRICADE DETAIL D.
- (4) FOR ROAD CLOSURE WITH LOCAL ACCESS TO PROJECT, SEE LANE CLOSURE BARRICADE DETAIL E.
- FOR BRIDGE OR CULVERT REPLACEMENTS, SUBSTITUTE "BRIDGE OUT" INSTEAD OF "ROAD CLOSED" ON R11-2 AND R11-3 SIGNS.
- INSTALL DETOUR AND COMMUNITY GUIDE SIGNS AND ARROWS ONLY IF SPECIFIED IN THE CONTRACT. IF THERE ARE EXISTING ROUTE MARKER ASSEMBLIES THAT WILL REMAIN IN PLACE, ADJUST THE LOCATION OF THE DETOUR ROUTE SIGNS TO CORRESPOND WITH THE EXISTING ASSEMBLIES. MODIFY EXISTING SIGNS WHERE POSSIBLE. SEE SPECIFIC PROJECT DETOUR SIGNING DETAIL SHEETS. IF DETOUR SIGNS ARE BEING INSTALLED BY OTHERS, PLACE THE CONTRACTED TRAFFIC CONTROL SIGNS TO ALLOW FOR PLACEMENT OF ALL WARNING, DETOUR AND GUIDE SIGNS AS SHOWN.
- "EAST" CARDINAL DIRECTION MARKERS AND RIGHT TURN ARROWS ARE SHOWN, USE OTHER CARDINAL DIRECTIONS AND ARROWS AS APPROPRIATE.

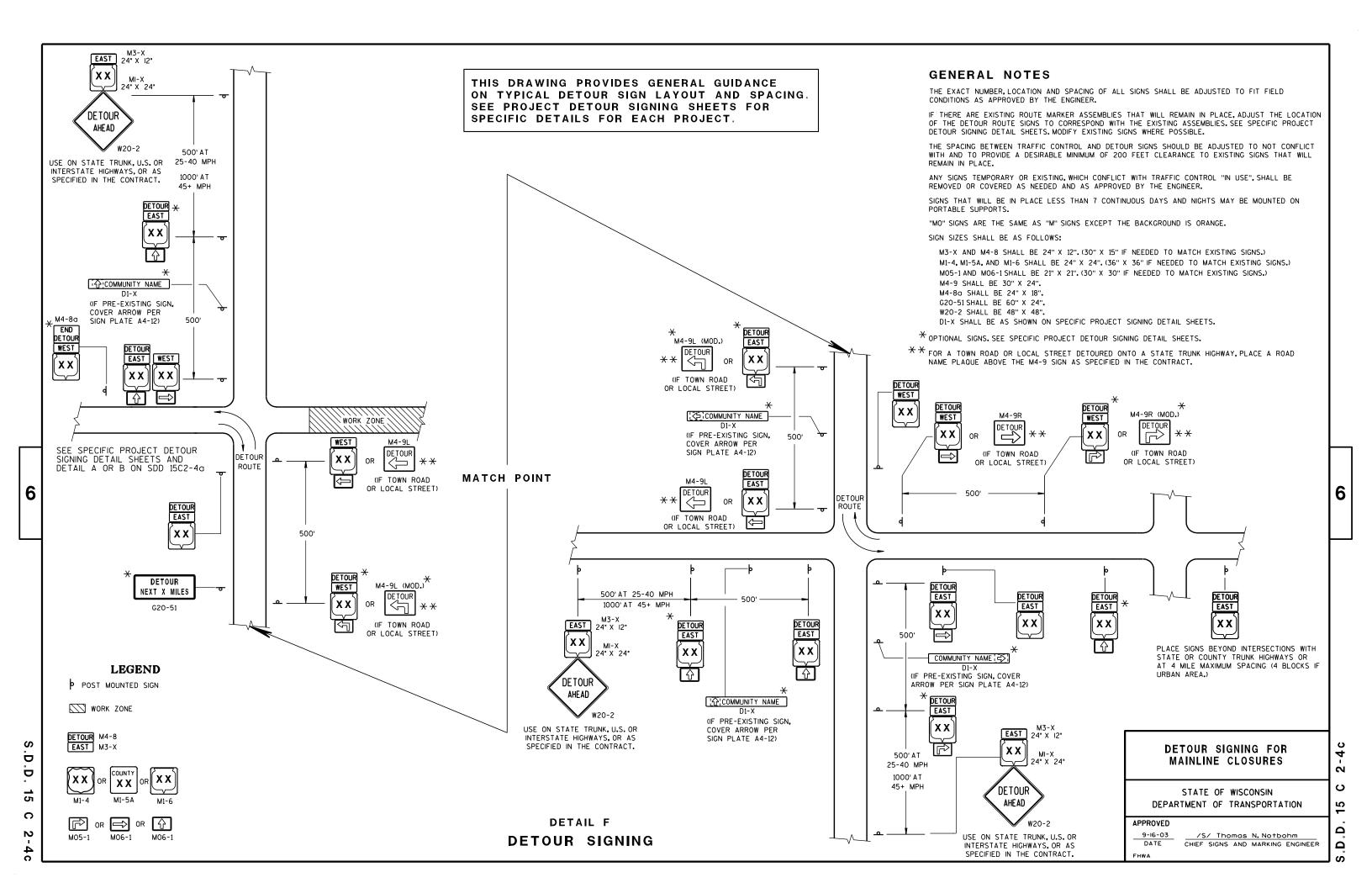
BARRICADES AND SIGNS FOR MAINLINE CLOSURES

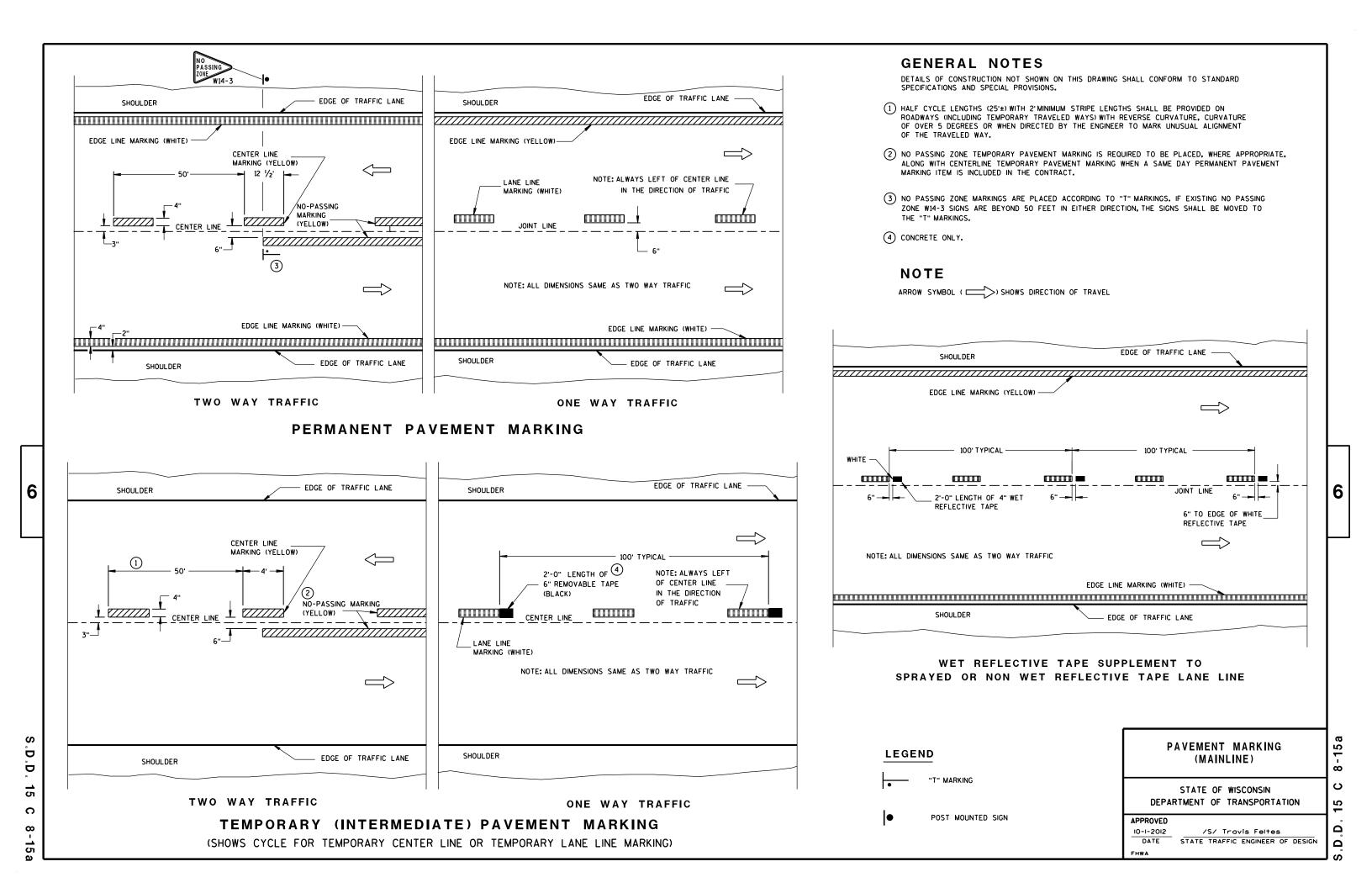
STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION

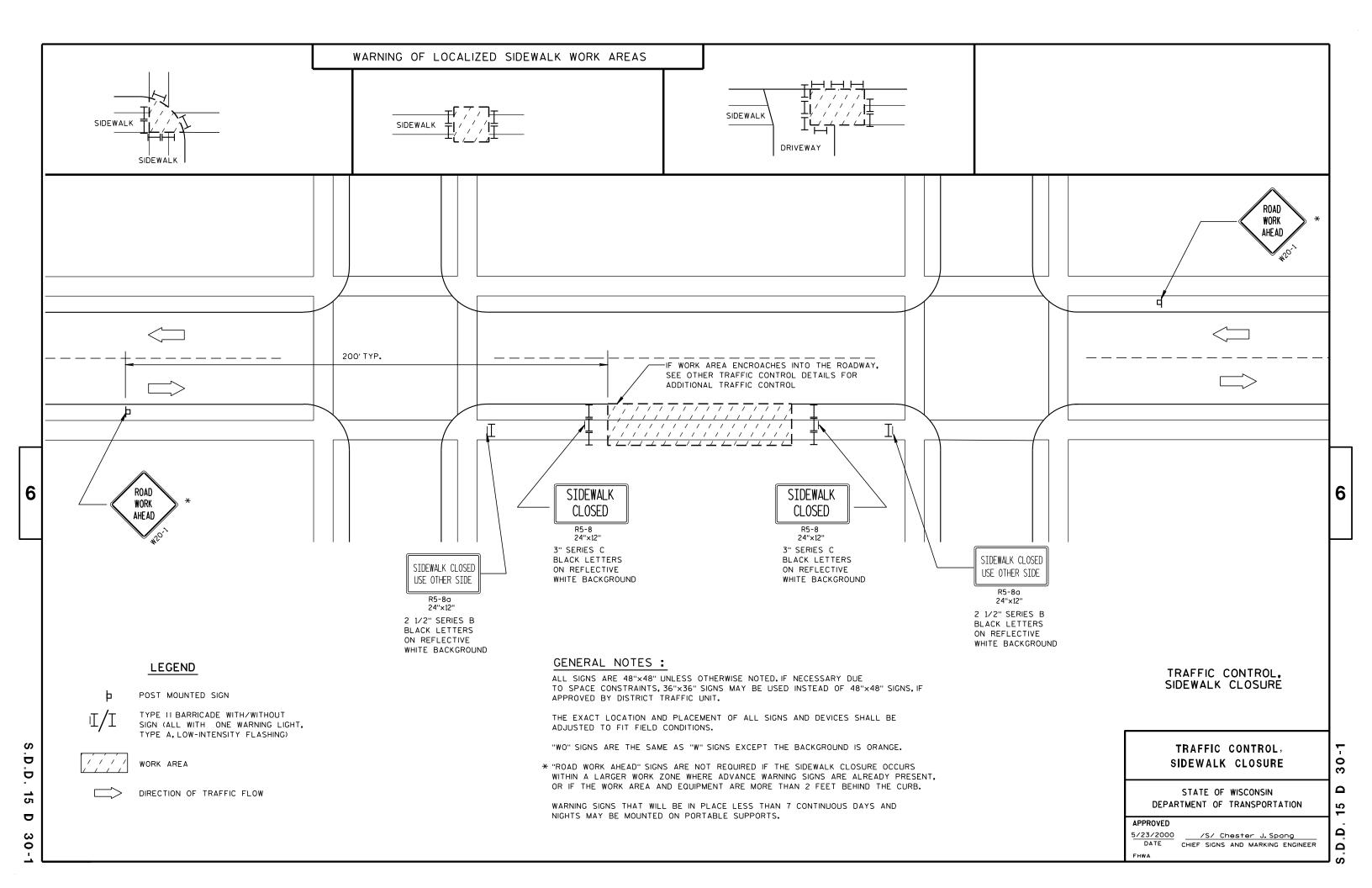
APPROVED

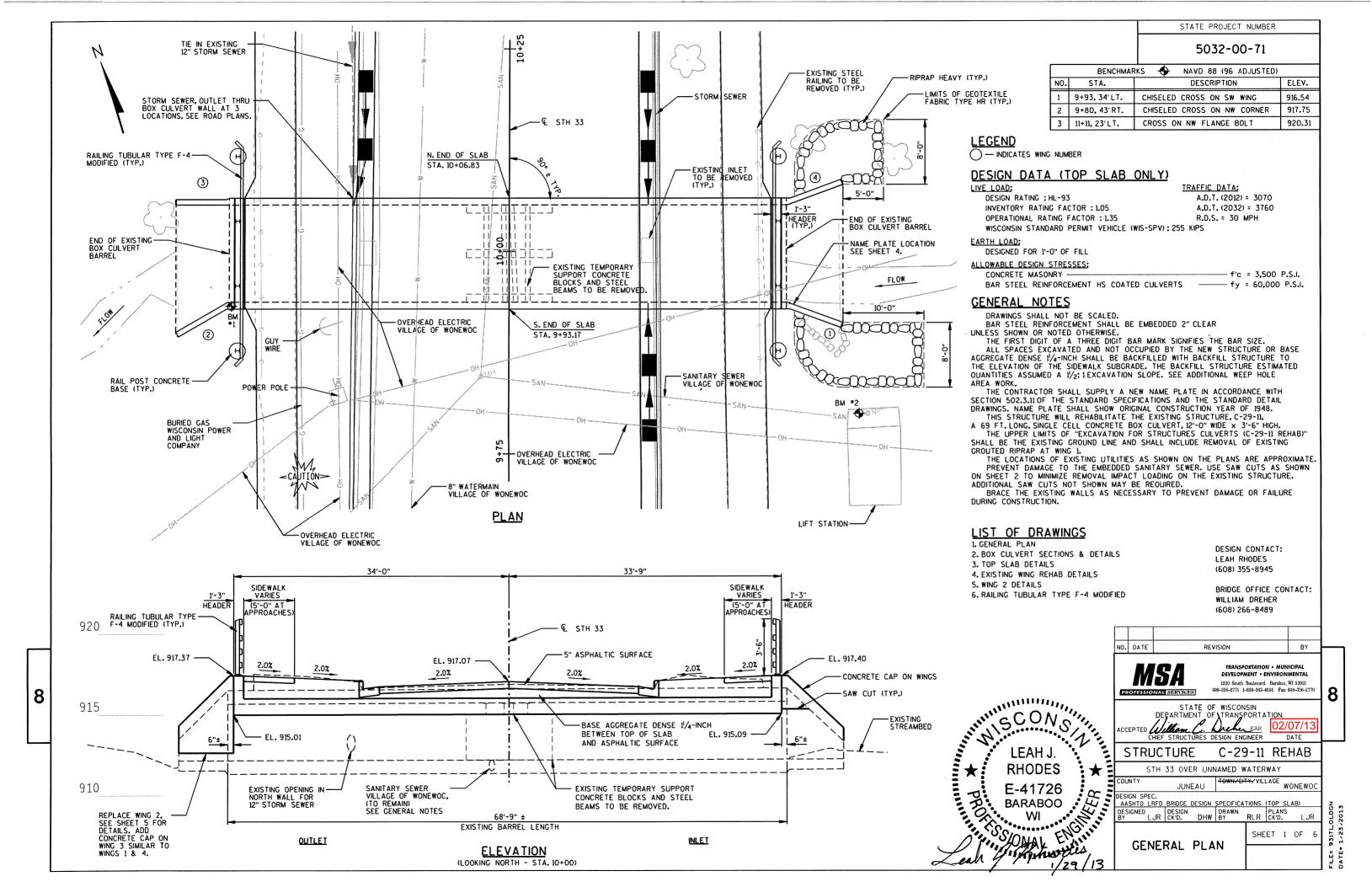
/S/ Thomas N. Notbohm
CHIEF SIGNS AND MARKING ENGINEER

2 Ω







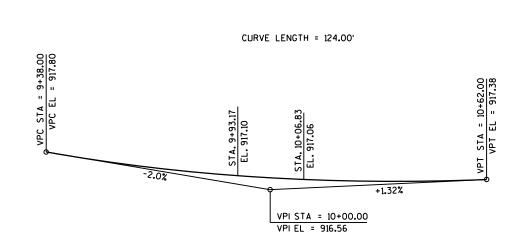


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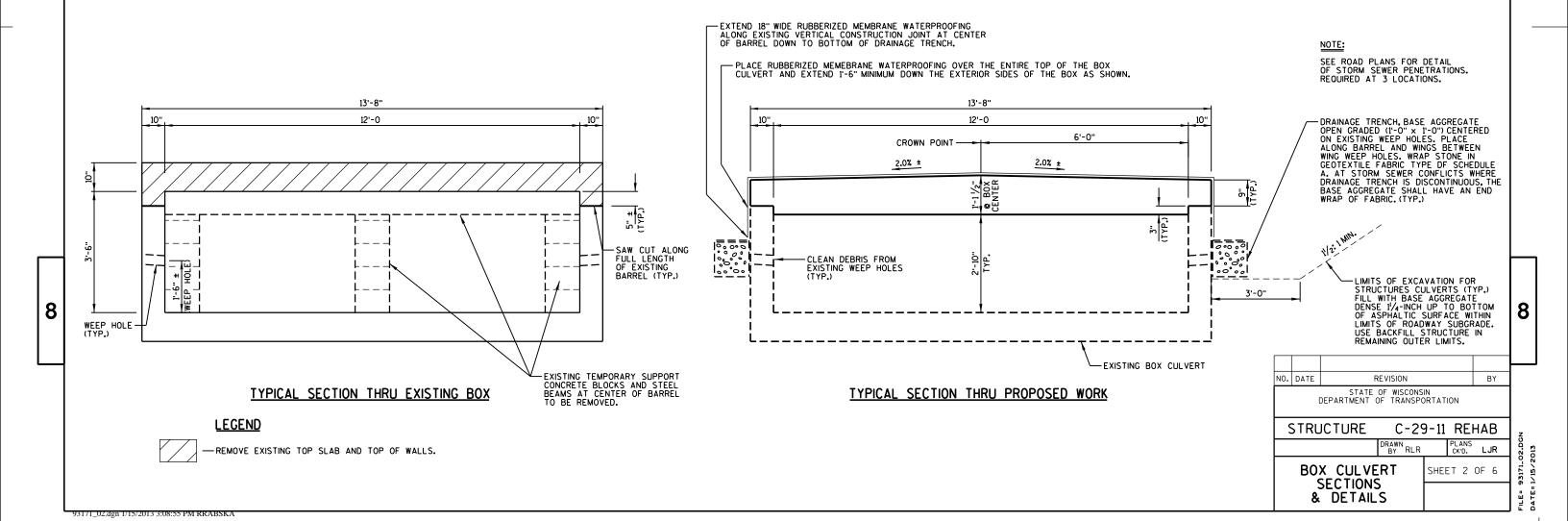
TOTAL ESTIMATED QUANTITIES

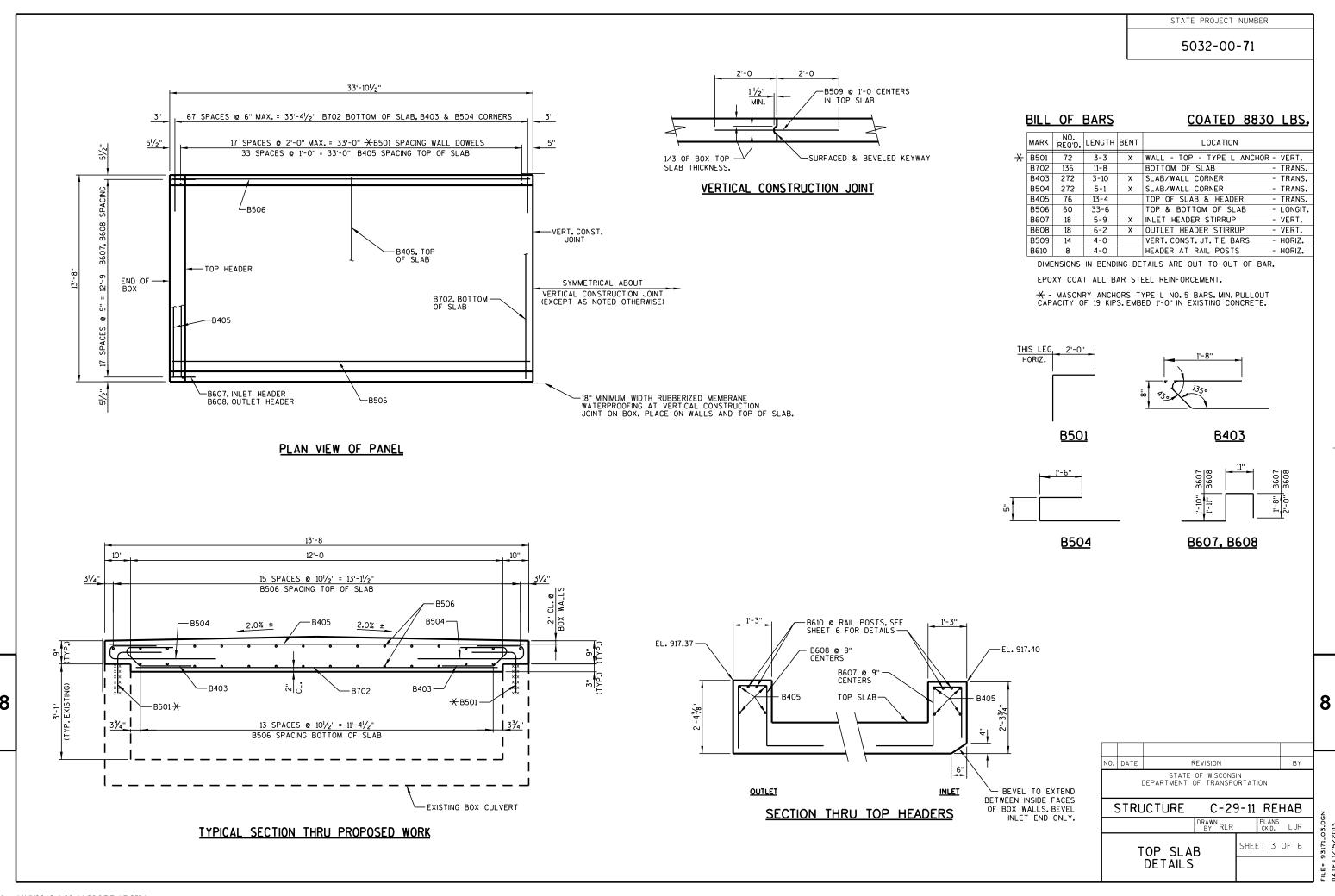
	ITEM NUMBER	BID ITEM	UNIT	TOTAL
	203.0500.S.01	REMOVING OLD STRUCTURE OVER WATERWAY STATION 10+00	LS	1
	206.2000.01	EXCAVATION FOR STRUCTURES CULVERTS C-29-11 REHAB	LS	1
	210.0100	BACKFILL STRUCTURE	CY	65
	310.0115	BASE AGGREGATE OPEN GRADED	CY	6
	502.5002	MASONRY ANCHORS TYPE L NO. 4 BARS	EACH	24
	502.5005	MASONRY ANCHORS TYPE L NO. 5 BARS	EACH	80
	502.5010	MASONRY ANCHORS TYPE L NO. 6 BARS	EACH	4
	504.0100	CONCRETE MASONRY CULVERTS	CY	38
	505.0610	BAR STEEL REINFORCEMENT HS COATED CUVERTS	LB	9110
*	509.1500	CONCRETE SURFACE REPAIR	SF	20
	516.0500	RUBBERIZED MEMBRANE WATERPROOFING	SY	130
	606.0300	RIPRAP HEAVY	CY	17
	645.0111	GEOTEXTILE FABRIC TYPE DF SCHEDULE A	SY	85
	645.0120	GEOTEXTILE FABRIC TYPE HR	SY	50
	SPV.0105.01	RAILING TUBULAR TYPE F-4 MODIFIED C-29-11 REHAB	LS	1
		NON-BID ITEMS		
		PREFORMED FILLER	SIZE	1/2"

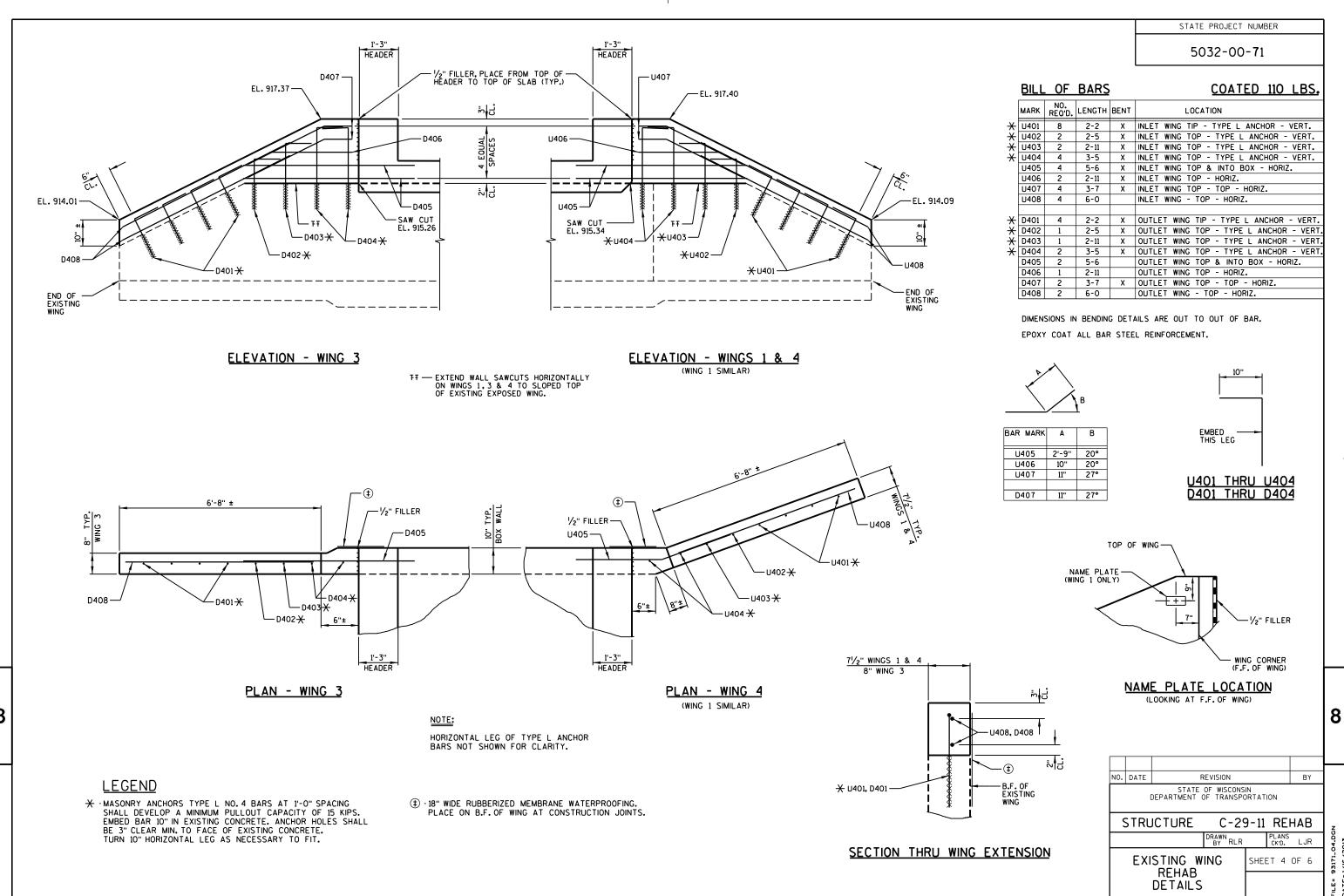
* - AS DIRECTED BY THE ENGINEER IN THE FIELD.



PROFILE GRADE LINE - STH 33

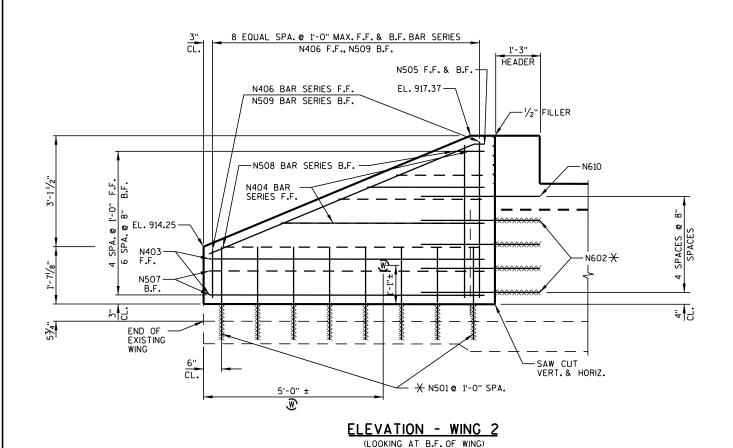


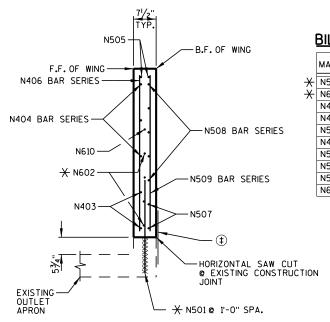




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SECTION THRU WING 2

BILL OF BARS

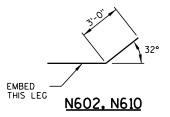
COATED 170 LBS.

MARK	NO. REQ'D.	LENGTH	BAR SERIES	BENT	LOCATION
N501	8	2-4			NEW OUTLET WING - TYPE L ANCHOR - VERT.
N602	4	4-10		Х	NEW OUTLET WING & INTO BOX - TYPE L ANCHOR - HORIZ.
N403	2	7-8			NEW OUTLET WING - F.F HORIZ.
N404	3	3-3	8		NEW OUTLET WING - F.F HORIZ.
N505	2	8-4		Х	NEW OUTLET WING - F.F. & B.F TOP - HORIZ.
N406	9	2-10	⊗		NEW OUTLET WING - F.F VERT.
N507	2	7-8			NEW OUTLET WING - B.F HORIZ.
N508	5	4-0	⊗		NEW OUTLET WING - B.F HORIZ.
N509	9	2-10	⊗		NEW OUTLET WING - B.F VERT.
N610	1	4-10		Х	NEW OUTLET WING & INTO BOX - HORIZ.

DIMENSIONS IN BENDING DETAILS ARE OUT TO OUT OF BAR. EPOXY COAT ALL BAR STEEL REINFORCEMENT.

BAR MARK	NO. REQ'D.	LENGTH
N404	1 SERIES OF 3	10" TO 5'-8"
N406	1 SERIES OF 9	1'-4" TO 4'-4"
N508	1 SERIES OF 5	10" TO 7'-2"
N509	1 SERIES OF 9	1'-4" TO 4'-4"

BAR SERIES TABLE

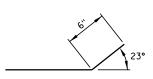




CL. - CLEAR F.F. - FRONT FACE B.F. - BACK FACE

- ** MASONRY ANCHORS TYPE L NO. 5 BARS AT 1'-0" SPACING SHALL DEVELOP A MINIMUM PULLOUT CAPACITY OF 19 KIPS. EMBED BAR 9" IN EXISTING CONCRETE. ANCHOR HOLES FOR NO. 5 BARS SHALL BE 3¾" MIN. TO FACE OF EXISTING CONCRETE. MASONRY ANCHORS TYPE L NO. 6 BARS AT 8" SPACING SHALL DEVELOP A MINIMUM PULLOUT CAPACITY OF 26 KIPS. EMBED BAR 1'-3" IN EXISTING CONCRETE, ANCHOR HOLES FOR NO. 6 BARS SHALL BE 41/2" MIN. TO FACE OF EXISTING CONCRETE.
- ₱-LOCATE 4"

 Ø WEEP HOLE TO AVOID BAR STEEL REINFORCEMENT. BAR STEEL POSITION MAY BE ADJUSTED BY 2" MAX.
- $\scriptsize{\scriptsize{\scriptsize{\scriptsize{(\pm)}}}}$ -18" WIDE RUBBERIZED MEMBRANE WATERPROOFING. PLACE ON B.F. OF WING AT CONSTRUCTION JOINTS.



N505

NO. DATE	F	REVISION			BY	┞
·	STATE DEPARTMENT	OF WISCONS OF TRANSPO		ON		1
STRU	JCTURE	C-29	9-11	RE	наВ	
		DRAWN BY RLR		PLANS CK'D.	LJR	
	WING 2		SHEE	T 5	OF 6	
i						

N404 BAR SERIES, N403 & N505 10" BOX ∕— №02 X, №10 - VERTICAL SAW CUT (‡) └─ ½" FILLER N508 BAR -SERIES, N507 & N505 F.F. OF WING X N501@ 1'-0" SPA.— N509 BAR SERIES-PLAN - WING 2 B.F. OF WING-

8

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(TYP. RAIL POST SPACING)

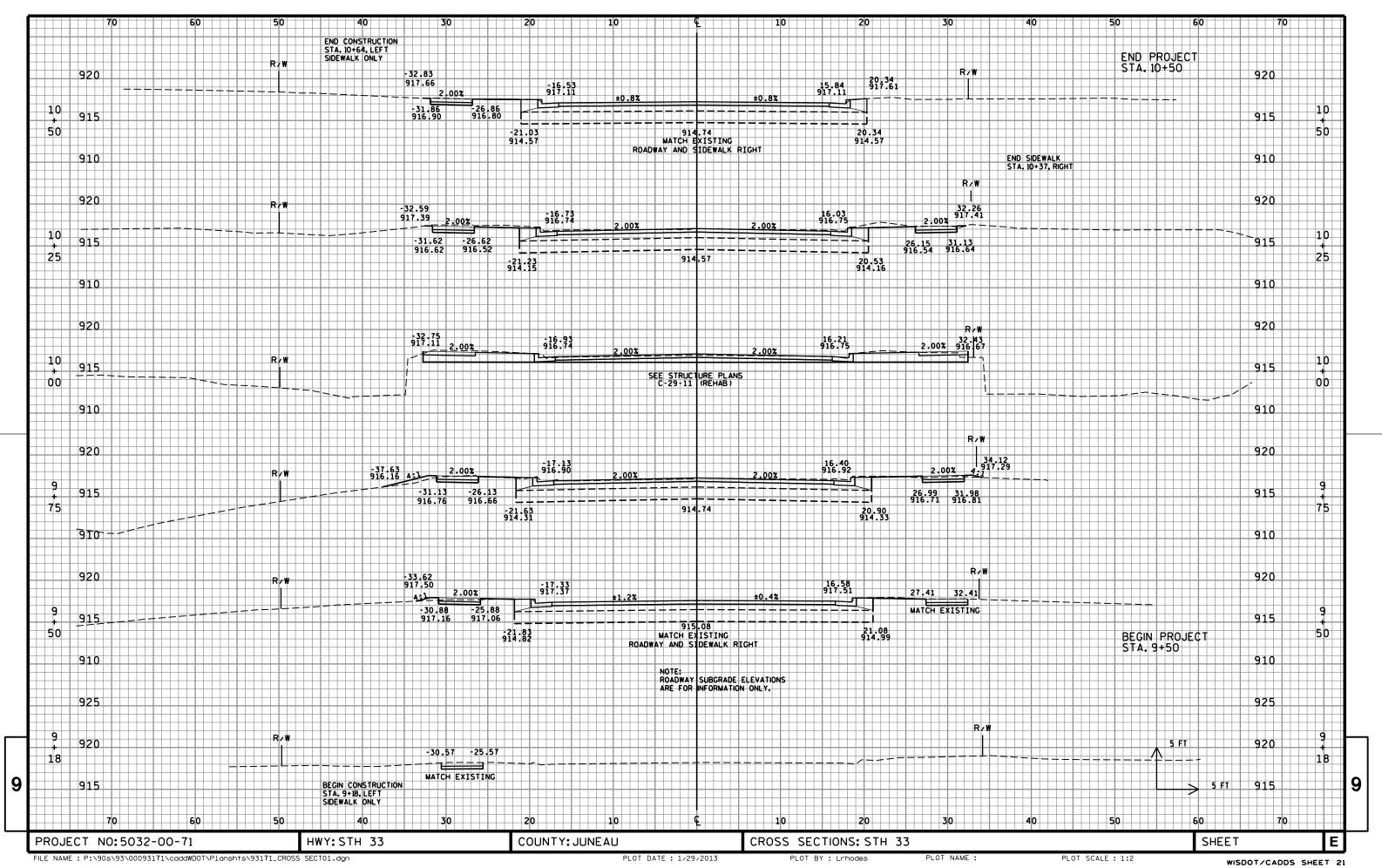
PLAN OF RAILING

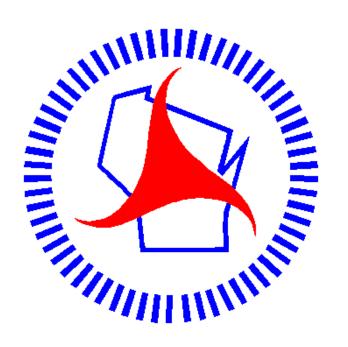
PLANS CK'D. LJR

SHEET 6 OF 6

RAILING TUBULAR

TYPE F-4 **MODIFIED**





Wisconsin Department of Transportation

Dedicated people creating transportation solutions through innovation and exceptional service.

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