RNO

MAY 2014 ORDER OF SHEETS

Section No. 1 Section No. 2 Typical Sections and Details Section No. 3 Estimate of Ouantities Section No. 3 Miscellaneous Ouantities

Right of Way Plat

Plan and Profile (includes erosion control plan)

Standard Detail Drawings Section No. 6

Section No. 7 Sign Plates Section No. 8 Structure Plans

Section No. 9 Computer Earthwork Data

Section No. 9 Cross Sections

TOTAL SHEETS = 42



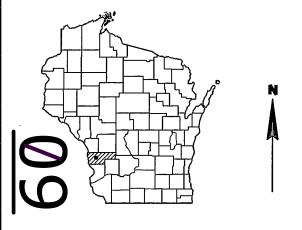
PLAN OF PROPOSED IMPROVEMENT

STH 82 - CTH Y

(BRANCH WEST FORK KICKAPOO RIVER BRIDGE B-62-0041)

CTH S **VERNON COUNTY**

> STATE PROJECT NUMBER 5289-00-70



DESIGN DESIGNATION

A.A.D.T. 2014 500 620 A.A.D.T. 2034 D.H.V. 2034 19 60/40 D. 4.1% DESIGN SPEED 40 mph ESALS 51,100

CONVENTIONAL SYMBOLS

PLAN CORPORATE LIMITS PROPERTY LINE LOT LINE LIMITED HIGHWAY EASEMENT EXISTING RIGHT OF WAY PROPOSED OR NEW R/W LINE SLOPE INTERCEPT REFERENCE LINE

EXISTING CULVERT PROPOSED CULVERT (Box or Pipe) COMBUSTIBLE FLUIDS

MARSH AREA

WOODED OR SHRUB AREA EDGE OF STREAM RAILROAD FENCE



PROFILE GRADE LINE ORIGINAL GROUND

MARSH OR ROCK PROFILE (To be noted os such) SPECIAL DITCH

GRADE ELEVATION

CULVERT (Profile View)

UTILITIES ELECTRIC

UTILITY PEDESTAL

TELEPHONE POLE

POWER POLE

FIBER OPTIC SANITARY SEWER STORM SEWER TELEPHONE WATER

Д ₫

STRUCTURE B-62-0041

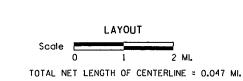
BEGIN PROJECT

STA. 8+50

Y = 161.965.55

_ LABEL_ _ .

X = 733,350.92

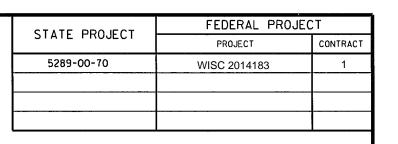


Positions shown on this plan and plat are Wisconsin County Coordinates, Vernon County, NAD 83 (2011) in US survey feet. Volues shown are grid coordinates, grid bearings, and grid distances. Grid distances may be used as ground distances.

END PROJECT STA. 11+00

T-13-N

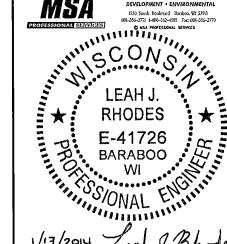
T-12-N





ORIGINAL PLANS PREPARED BY: TRANSPORTATION • MUNICIPAL

MSA



STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION

PREPARED BY Surveyor Designer

MSA Professional Services, Inc. MSA Professional Services, Inc.

Kjohnson Engineers, Inc.

Ε

Management

C.O. Examiner

APPROVED FOR THE DEPARTMENT

1/27/14 Kindy A. Juhn

FILE NAME: P:\7300s\7330s\7339\07339005\cadd\DOT\Planshts\7339005TS.dgn

PLOT DATE: 1/17/2014

PLOT BY : Irhodes

VIŘOOUA

R-4-W

PLOT NAME: 7339005TS.DGN

WEBSTER

Ross

R-3-W

PLOT SCALE: 1:20000

WISDOT/CADDS SHEET 10

STANDARD ABBREVIATIONS

AC	ACRE	F/L	FLOW LINE	SALV	SALVAGED
AGG	AGGREGATE	FT	FOOT	SAN	SANITARY SEWER
<	ANGLE	GN	GRID NORTH	SECT	SECTION
ASPH	ASPHALTIC	HR	HANDICAP RAMP	SHLDR	SHOULDER
AC	ASPHALT CEMENT	HT	HEIGHT	SW	SIDEWALK
ADT	AVERAGE DAILY TRAFFIC	CWT	HUNDREDWEIGHT	S	SOUTH
B & B	BALLED AND BURLAPPED	HYD	HYDRANT	SB	SOUTHBOUND
ВМ	BENCH MARK	IN DIA	INCH DIAMETER	SPECS	SPECIFICATIONS
CB	CATCH BASIN	INL	INLET	SQ	SQUARE
€ OR C/L	CENTER LINE	ID	INSIDE DIAMETER	SF OR SO FT	SQUARE FEET
C-C	CENTER TO CENTER	I	INTERSECTION ANGLE	SY	SQUARE YARD
CONC	CONCRETE	ΙE	INVERT ELEVATION	SSPRC	STORM SEWER
CO	COUNTY	IP	IRON PIPE OR PIN		PIPE REINFORCED CONCRETE
СТН	COUNTY TRUNK HIGHWAY	JCT	JUNCTION	STD	STANDARD
CY	CUBIC YARD	L	LENGTH OF CURVE	SDD	STANDARD DETAIL DRAWINGS
CULV	CULVERT	LF	LINEAR FOOT	STH	STATE TRUNK HIGHWAYS
CP	CULVERT PIPE	LC	LONG CHORD OF CURVE	STA	STATION
CPRC	CULVERT PIPE	LCB	LONG CHORD BEARING	SS	STORM SEWER
	REINFORCED CONCRETE	LS	LUMP SUM	Ť	TANGENT
C & G	CURB AND GUTTER	MH	MANHOLE	TEL	TELEPHONE
D	DEGREE OF CURVE	N	NORTH	TEMP	TEMPORARY
DHV	DESIGN HOUR VOLUME	Ϋ́	NORTH GRID COORDINATE	TLE	TEMPORARY LIMITED EASEMENT
DIA OR Ø	DIAMETER	0E	OUTLET ELEVATION	T	TON
DIST	DISTRICT	OL OL	OUT LOT	TC	TOP OF CURB
DWY	DRIVEWAY	OD	OUTSIDE DIAMETER	TN	TOWN
E.	EAST	OH	OVERHEAD LINES	TRANS	TRANSITION
x	EAST GRID COORDINATE	PAVT	PAVEMENT	Т	TRUCKS (percent of)
EB	EASTBOUND	PLE	PERMANENT LIMITED EASEMENT	TYP	TYPICAL
ELEC	ELECTRIC	PC	POINT OF CURVATURE	UNCL	UNCLASSIFIED
EL OR ELEV	ELEVATION	ΡΙ	POINT OF INTERSECTION	USH	UNITED STATES HIGHWAY
EMB	EMBANKMENT	PT	POINT OF TANGENCY	VAR	VARIABLE
EW	ENDWALL	PCC	PORTLAND CEMENT CONCRETE	VERT	VERTICAL
ESALS	EQUIVALENT SINGLE	LB	POUND	VC	VERTICAL CURVE
	AXLE LOADS	PE	PRIVATE ENTRANCE	VOL	VOLUME
EXC	EXCAVATION	R OR RAD	RADIUS	WM	WATER MAIN
EBS	EXCAVATION BELOW	RR	RAILROAD	wv	WATER VALVE
	SUBGRADE	R	RANGE	 W	WEST
EXIST	EXISTING	₹ OR R/L	REFERENCE LINE	WB	WESTBOUND
EXP	EXPANSION	REOD	REQUIRED	YD	YARD
F-F	FACE TO FACE	RT	RIGHT		IAND
FERT	FERTILIZER	R / W	RIGHT-OF-WAY		
_					

RUNOFF COEFFICIENT TABLE

ROAD

		HYDROLOGIC SOIL GROUP										
		А			В			С		D		
	SLOPE	RANGE	(PERCENT)	SLOPE	RANGE	(PERCENT)	SLOPE	RANGE	(PERCENT)	SLOPE	RANGE	(PERCENT)
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 & OVER
ROW CROPS	.08	.16	.22	.12	.20	.27 .44	.15	.24	.33	.19	.28	.38
MEDIAN STRIP- TURF	.19	.20	.24	.19	.22	.26	.20	.23	.30	.20	.25	.30
SIDE SLOPE- TURF			.25 .32			.27 .34			.28 .36			.30 .38
PAVEMENT:						•			•	•	•	
ASPHALT						.7095						
CONCRETE	.8095											
BRICK	.70				.7080	0						
DRIVES, WALKS				.7585	.7585							
ROOFS	.7595											
GRAVEL ROADS,	SHOULDE	RS				.4060						

TOTAL PROJECT AREA = 0.54 ACRES
TOTAL AREA EXPECTED TO BE DISTURBED BY CONSTRUCTION ACTIVITIES = 0.43 ACRES

HWY: CTH S

RD

DESIGN CONTACT

MSA PROFESSIONAL SERVICES, INC.

MSA PROFESSIONAL SERVICES, ATTN: LEAH J. RHODES, P.E. 1230 SOUTH BOULEVARD BARABOO, WI 53913 PHONE: 608-355-8945 Irhodes@msa-ps.com

VERNON COUNTY ATTN: PHIL HEWITT, COMMISSIONER 602 NORTH MAIN STREET VIROQUA, WI 54665 PHONE 608-637-5452 phil.hewitt@vernoncounty.org

DNR LIAISON

DEPARTMENT OF NATURAL RESOURCES
KAREN KALVELAGE
ENVIRONMENTAL ANALYSIS AND REVIEW SPECIALIST
3550 MORMON COULEE ROAD
LA CROSSE, WI 54601
PHONE: 608-785-9115
karen.kalvelage@wisconsin.gov

<u>UTILITIES</u>

BURIED TELEPHONE: VERNON TELEPHONE COOP ATTN: TODD TUNKS 103 NORTH MAIN STREET P.O. BOX 20 WESTBY, WI 54667 PHONE: 608-634-3136 ttunks@vernontel.com

OVERHEAD ELECTRIC:
VERNON ELECTRIC COOP
ATTN: MONTE TEWALT
110 SAUGSTAD ROAD
WESTBY, WI 7472
PHONE:608-634-3121
mtewalt@vernonelectric.org

* - NOT A MEMBER OF DIGGERS HOTLINE.



GENERAL NOTES

DISTURBED AREAS WITHIN THE RIGHT-OF-WAY, EXCEPT THE AREAS WITHIN THE FINISHED SHOULDER POINTS SHALL BE FERTILIZED, SEEDED AND MULCHED AS DIRECTED BY THE ENGINEER. OVERSOW PERMANENT SEEDING AREAS WITH TEMPORARY SEED AT 3 LBS. PER 1000 SOUARE FEET.

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 USGS NAVD 88 (96 ADJUSTED). BENCHMARKS WERE LOCATED IN THE FIELD USING GPS TECHNOLOGY.

THE 4" ASPHALTIC SURFACE SHALL CONSIST OF A $1\frac{1}{4}$ " UPPER LAYER WITH 12.5MM NOMINAL SIZE AGGREGATE AND A $2\frac{1}{4}$ " LOWER LAYER WITH 19.0MM NOMINAL SIZE AGGREGATE.

SILT FENCE TO BE PLACED AS SHOWN ON THE PLAN OR AS DIRECTED BY THE ENGINEER AND IN PLACE PRIOR TO CONSTRUCTION OR BRIDGE REMOVAL.

SLOPES STEEPER THAN 3:1 REQUIRE EROSION MAT.

GENERAL NOTES, ABBREVIATIONS & UTILITIES SHEET

FILE NAME: P:\7300s\7330s\7339\07339005\cadd\DOT\Planshts\7339005GN.dgn

PLOT DATE : 1/17/2014

COUNTY: VERNON

des PLOT NAME:

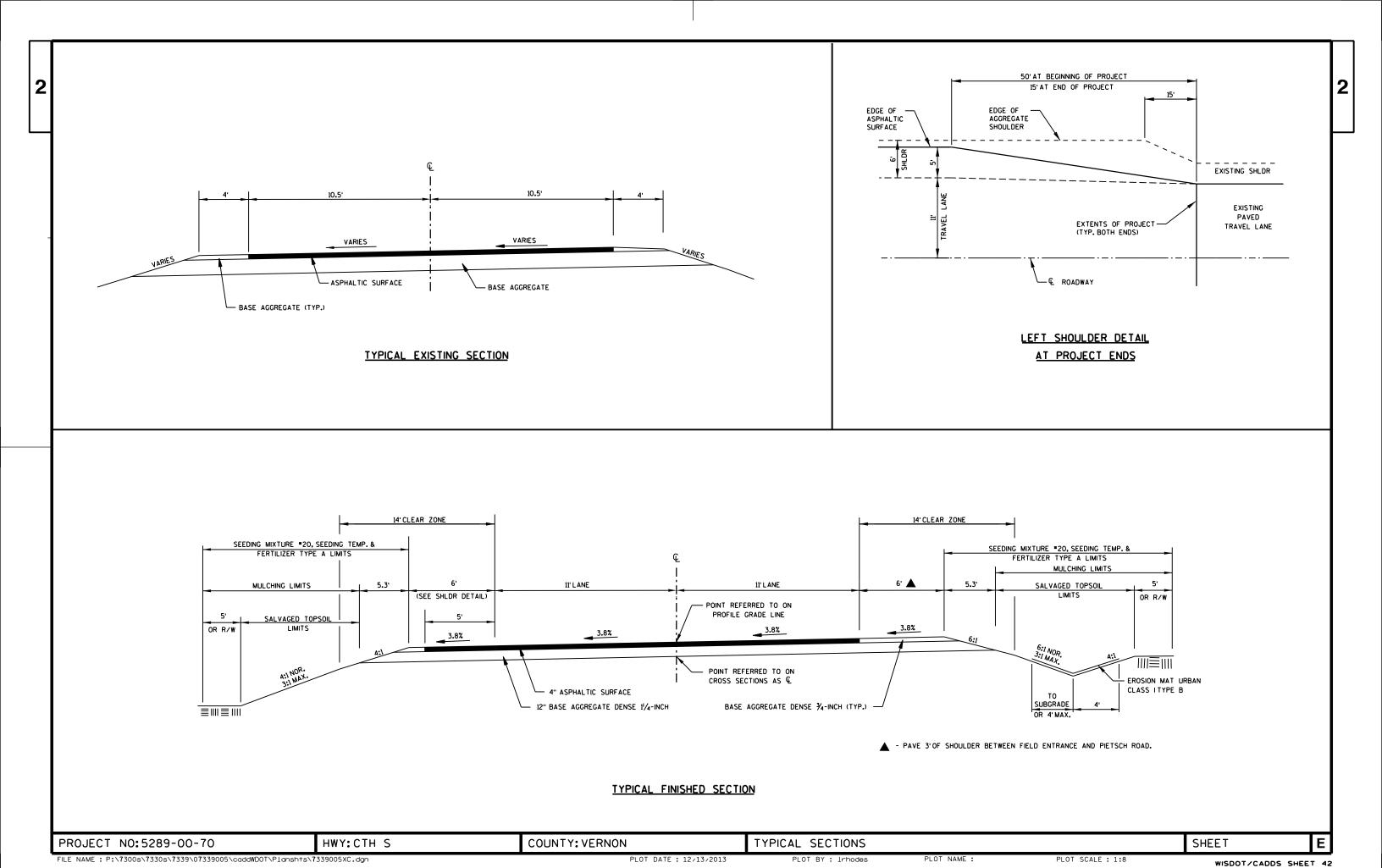
PLOT SCALE : 1:10

WISDOT/CADDS SHEET 42

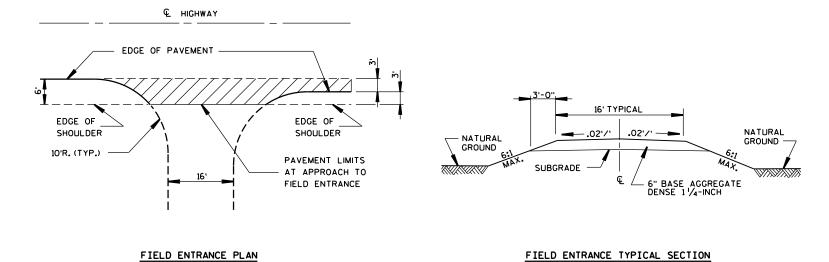
PROJECT NO:5289-00-70

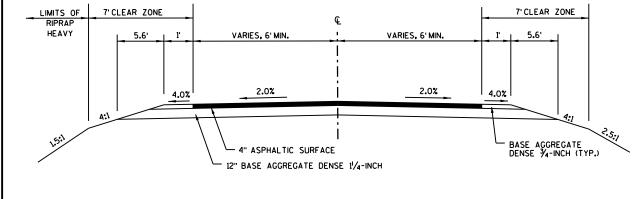
FΕ

FIELD ENTRANCE









TYPICAL FINISHED SECTION
THRU TOWN ROAD
(LOOKING WEST)

FIELD ENTRANCE DETAILS

10+00 STA. 10+30 11 00 STA. 10+30 STA. 10+35.56 INTERSECTION GRADING & LAYOUT DETAIL

HWY: CTH S

LAYOUT TABLE

POINT	STATION	OFFSET	ELEVATION
1	9+80.26	14.00' RT.	857.48
2	9+97.40	24.03' RT.	857.79
3	9+97.32	44.00' RT.	858.10
4	10+00.28	50.73' RT.	858.25
5	10+13.31	39.99' RT.	858.03
6	10+26.85	24.08' RT.	858.15
7	10+45.14	14.00' RT.	858.27
8	10+63.56	11 . 00' RT.	858.39
9	10+21.64	14.00' RT.	857.98

FILE NAME : P:\7300s\7330s\7339\07339005\caddWDOT\Planshts\7339005CD.dgn

COUNTY: VERNON

PLOT DATE: 1/22/2014

CONSTRUCTION DETAILS

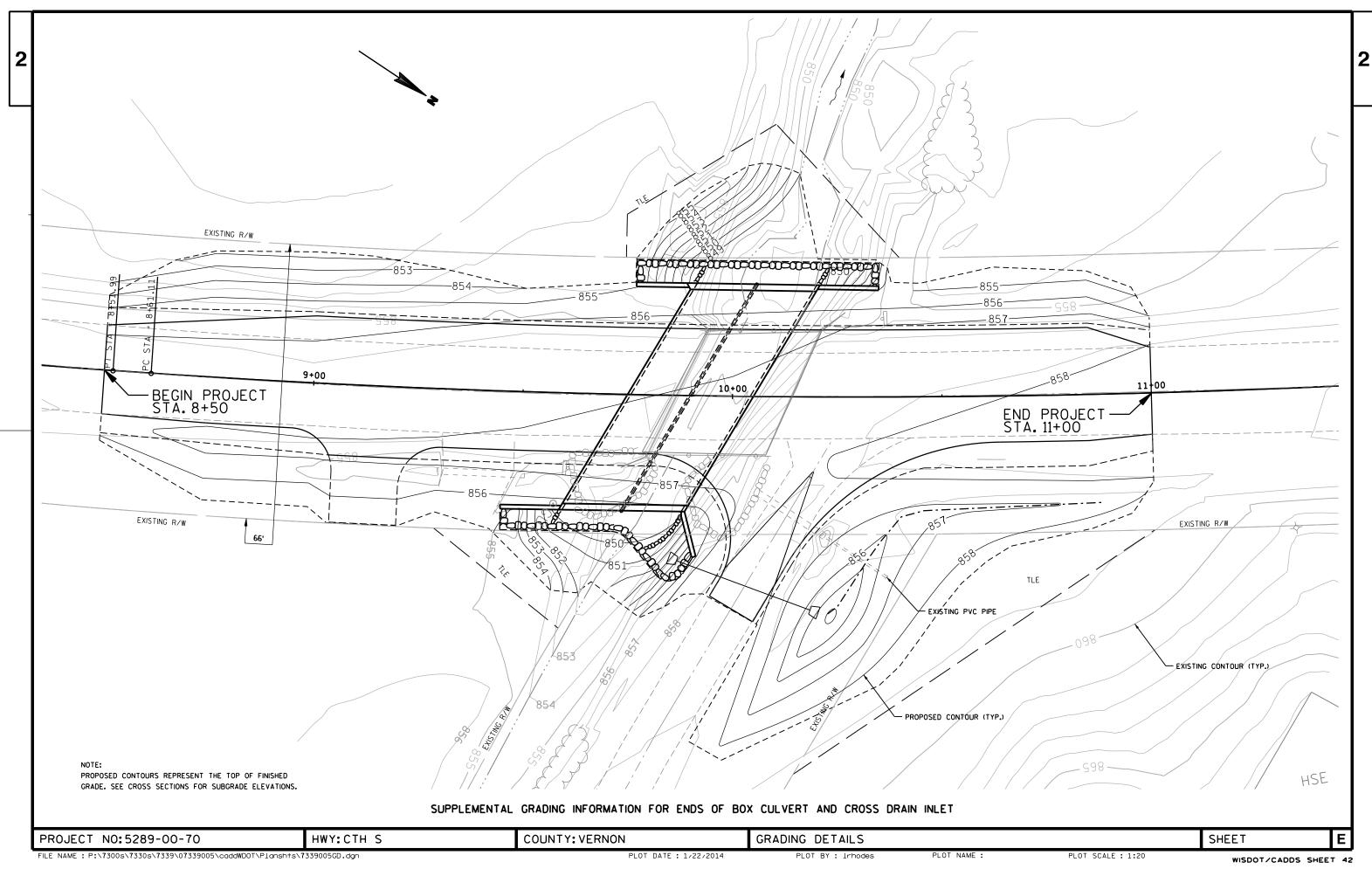
PLOT BY: 1rhodes

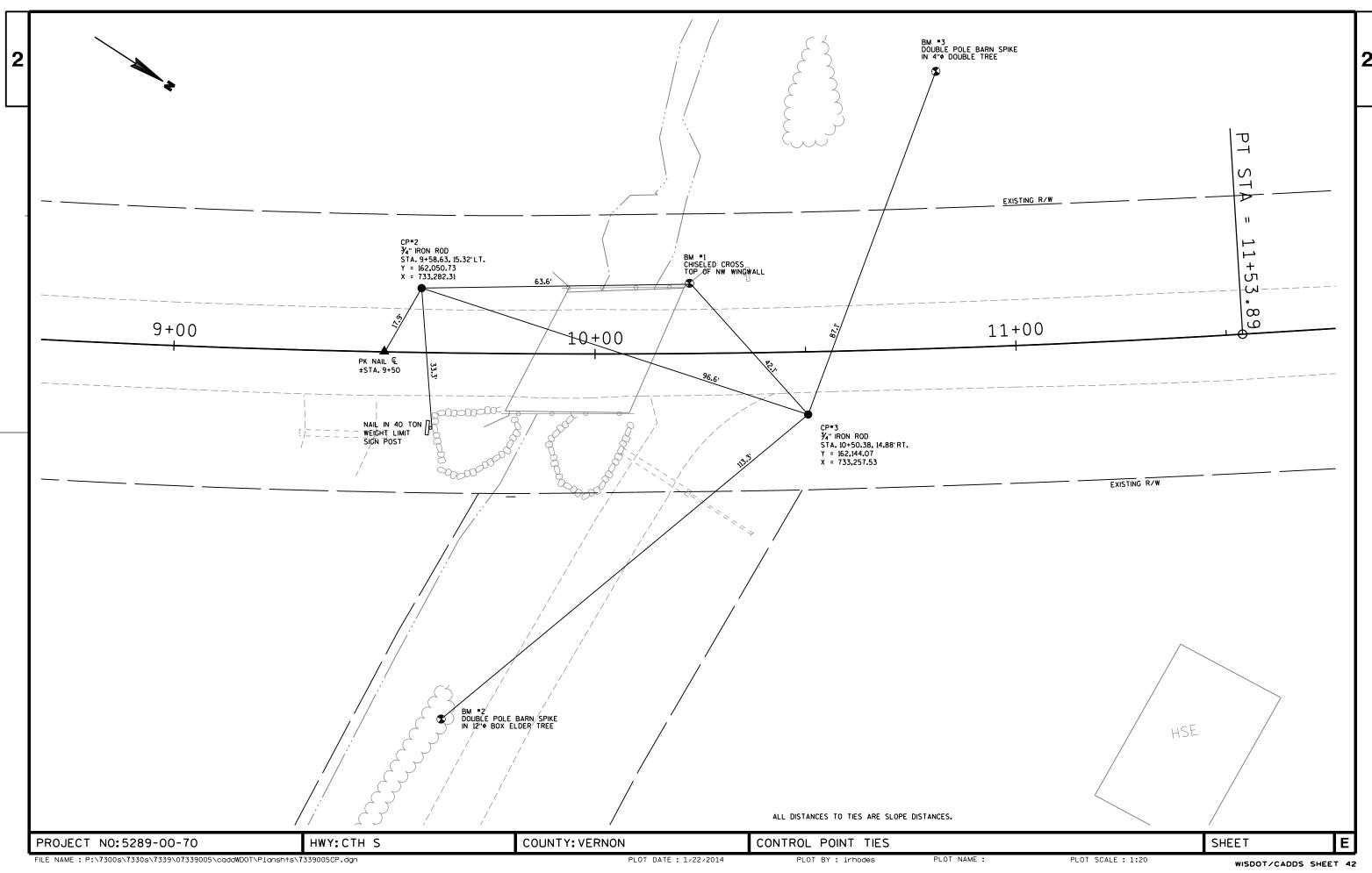
PLOT NAME :

PLOT SCALE: 1:20

WISDOT/CADDS SHEET 42

PROJECT NO:5289-00-70





DATE 10	MAR14	E S T	IMATE	OF QUAN		
LI NE NUMBER	LTEM	ITEM DESCRIPTION	UNI T	TOTAL	5289-00-70 QUANTI TY	
0010	203. 0100	REMOVING SMALL PIPE CULVERTS	EACH	2. 000	2. 000	
0020		REMOVING OLD STRUCTURE OVER WATERWAY	LS	1. 000	1. 000	
		WITH MINIMAL DEBRIS (STATION) 01. 10+00				
0030	205. 0100	EXCAVATION COMMON **P**	CY	578.000	578. 000	
0040	206. 2000	EXCAVATION FOR STRUCTURES CULVERTS	LS	1. 000	1. 000	
0050	206 6000 \$	(STRUCTURE) 01. B-62-0041 TEMPORARY SHORI NG	SF	575. 000	575. 000	
0030	200. 0000. 3	TEMPORARY SHORTING	31	373.000	373.000	
0060	210. 0100	BACKFILL STRUCTURE	CY	465. 000	465. 000	
0070	213. 0100	FINISHING ROADWAY (PROJECT) 01.	EACH	1.000	1. 000	
		5289-00-70				
0800	305. 0110	BASE AGGREGATE DENSE 3/4-INCH	TON	53. 000	53. 000	
0090 0100	305. 0120 311. 0115	BASE AGGREGATE DENSE 1 1/4-INCH BREAKER RUN	TON CY	930. 000 130. 000	930. 000 130. 000	
0100	311.0113	BREAKER ROW	CI	130.000	130.000	
0110	455. 0605	TACK COAT	GAL	22. 000	22. 000	
0120	465. 0105	ASPHALTIC SURFACE	TON	204.000	204.000	
0130	504. 0100	CONCRETE MASONRY CULVERTS	CY	218. 000	218. 000	
0140	505. 0410	BAR STEEL REINFORCEMENT HS CULVERTS	LB	38, 310. 000	38, 310. 000	
0150	516. 0500	RUBBERIZED MEMBRANE WATERPROOFING	SY	13. 000	13. 000	
0160	520. 0118	CULVERT PIPE CLASS III 18-INCH	LF	38. 000	38. 000	
0170	520. 1018	APRON ENDWALLS FOR CULVERT PIPE 18-INCH	EACH	2. 000	2. 000	
0180	603. 8000	CONCRETE BARRIER TEMPORARY PRECAST	LF	75. 000	75. 000	
		DELI VERED				
0190	603. 8125	CONCRETE BARRIER TEMPORARY PRECAST	LF	75. 000	75. 000	
0200	606. 0300	I NSTALLED RI PRAP HEAVY	CY	55. 000	55. 000	
0200	000. 0300	KIFKAF IILAVI	CI	55.000	55.000	
0210	619. 1000	MOBI LI ZATI ON	EACH	1. 000	1. 000	
0220	625. 0500	SALVAGED TOPSOIL **P**	SY	600.000	600.000	
0230	627. 0200	MULCHING **P**	SY	720. 000	720. 000	
0240	628. 1504	SILT FENCE	LF	500.000	500.000	
0250	628. 1520	SILT FENCE MAINTENANCE	LF	500.000	500. 000	
0260	628. 1905	MOBILIZATIONS EROSION CONTROL	EACH	2. 000	2. 000	
0270	628. 1910	MOBILIZATIONS EMERGENCY EROSION CONTROL	EACH	2.000	2. 000	
0280	628. 2008	EROSION MAT URBAN CLASS I TYPE B	SY	215. 000	215. 000	
0290	629. 0205	FERTILIZER TYPE A **P**	CWT	1.000	1. 000	
0300	630. 0120	SEEDING MIXTURE NO. 20 **P**	LB	40. 000	40. 000	
0310	630. 0200	SEEDING TEMPORARY **P**	LB	40. 000	40. 000	
0320	633. 5200	MARKERS CULVERT END	EACH	4. 000	4. 000	
0330	634. 0616	POSTS WOOD 4X6-INCH X 16-FT	EACH	1.000	1. 000	
0340	637. 2210	SIGNS TYPE II REFLECTIVE H	SF	5. 180	5. 180	
0350	642. 5001	FIELD OFFICE TYPE B	EACH	1. 000	1. 000	
0360	643. 0100	TRAFFIC CONTROL (PROJECT) 01. 5289-00-70	EACH	1. 000	1. 000	
0370	645. 0105	GEOTEXTILE FABRIC TYPE C	SY	220. 000	220. 000	
0380	645. 0120	GEOTEXTILE FABRIC TYPE HR	SY	135. 000	135. 000	
0390	646. 0106	PAVEMENT MARKING EPOXY 4-INCH	LF	1, 000. 000	1, 000. 000	
0400	650. 4500	CONSTRUCTION STAKING SUBGRADE	LF	300.000	300.000	
0410	650. 5000	CONSTRUCTION STAKING BASE	LF	300.000	300. 000	
0410	650. 6500	CONSTRUCTION STAKING BASE CONSTRUCTION STAKING STRUCTURE LAYOUT	LF LS	1. 000	1. 000	
J-72-U	555. 5566	(STRUCTURE) 01. B-62-0041		1.000	1.000	
0430	650. 9910	CONSTRUCTION STAKING SUPPLEMENTAL	LS	1.000	1. 000	
		CONTROL (PROJECT) 01. 5289-00-70				
0440	650. 9920	CONSTRUCTION STAKING SLOPE STAKES	LF	300.000	300.000	
0450	690. 0150	SAWI NG ASPHALT	LF	54. 000	54. 000	

LOCATION	EXC. COMMON CY	FILL CY (1)	EXPANDED FILL CY (2)	WASTE CY
STA 8+50 - STA 9+60	165	89	115	50
STA 10+20 - STA 11+00	180	16	22	158
PIETSCH RD & CROSS DRAIN INLET	163	0	0	163
B-62-0041 INLET	28	0	0	28
B-62-0041 OUTLET	42	12	16	26
TOTALS:	578	117	153	425

(1) - NOT A BID ITEM - FOR INFORMATIONAL PURPOSES ONLY.

(2) - FILL EXPANSION 30%

305.0110 BASE AGGREGATE DENSE 3/4-INCH 305.0120 BASE AGGREGATE DENSE 1 1/4-INCH

			BASE AGGREGATE DENSE 3/4-INCH	BASE AGGREGATE DENSE 1 1/4-INCH
STATION	-	STATION	TON	TON
8+50.00	-	11+00.00	45	800
PIET	SCH R	OAD	8	130
		TOTALS:	53	930

455.0605 TACK COAT 465.0105 ASPHALTIC SURFACE

STATION	_	STATION	TACK COAT GAL	ASPHALTIC SURFACE TON
8+50	-	11+00	19.5	181
PIE	TSCH F	ROAD	2.5	23
		TOTALS:	22	204

203.0100 REMOVING SMALL PIPE CULVERTS

520.0118 CULVERT PIPE CLASS III 18-INCH

520.1018 APRON ENDWALLS FOR CULVERT PIPE 18-INCH

		REMOVING	CULVERT PIPE	APRON	MINIMUM T	HICKNESS
		PIPE	CLASS III	ENDWALLS	STEEL	ALUM.
STATION	LOCATION	EACH	LF	EACH	IN.	IN.
9+13	FIELD ENTRANCE, RT	1	-	-	-	-
10+03	45' RT	-	38	2	0.064	0.06
10+14	28' RT (1)	1	-	-	-	-
	TOTAL:	2	38	2	-	-

(1) - INCLUDES REMOVAL OF PVC PIPE FROM PIPE CULVERT INLET TO 5' SOUTH OF THE EXISTING NORTHERLY RIGHT OF WAY LINE ON PIETSCH ROAD.

603.8000 CONCRETE BARRIER TEMPORARY PRECAST DELIVERED 603.8125 CONCRETE BARRIER TEMPORARY PRECAST INSTALLED

STATION	_	STATION	LOCATION	CONCRETE BARRIER DELIVERED (1) LF	CONCRETE BARRIER INSTALLED (1) LF
9+86, 66' RT	-	10+25, 3' RT	SOUTH EDGE OF PIETSH ROAD	75	75
			TOTAL:	75	75

(1) - BARRIER TAPER SECTION REQUIRED ON EACH END OF CONCRETE BARRIER. INSTALL OBJECT MARKERS (W5-52) ON ENDS OF CONCRETE BARRIER (INCLUDED IN BID ITEM "TRAFFIC CONTROL").

625.0500 SALVAGED TOPSOIL **P**

627.0200 MULCHING **P**

629.0205 FERTILIZER TYPE A **P**

630.0120 SEEDING MIXTURE NO. 20 **P**

630.0200 SEEDING TEMPORARY **P**

					SALVAGED			SEEDING	SEEDING
					TOPSOIL	MULCHING	FERTILIZER	#20	TEMPORARY
	STATION	-	STATION	LOCATION	SY	SY	CWT	LB	LB
	8+50	-	11+00	LT	180	240	0.30	13	13
	8+50	-	11+00	RT	375	435	0.45	19	19
_	UNDI	STRIBU	TED		45	45	0.25	8	8
_			TOTALS:		600	720	1	40	40

628.1504 SILT FENCE 628.1520 SILT FENCE MAINTENANCE

	STATION	-	STATION	LOCATION	FENCE LF	MAINT. LF
-	8+50.00	-	11+00.00	LT	260	260
	8+50.00	-	9+90.00	RT	140	140
	UNDI	STRIB	UTED	-	100	100
_						
				TOTALS:	500	500

P - PAY PLAN QUANTITY

PROJECT NO: 5289-00-70 HWY: CTH S FILE NAME ; P:\7300s\7330s\7339\07339005\Estimate\07339005_MiscOty & Earthwork Borders.dgm COUNTY: VERNON

MISCELLANEOUS QUANTITIES

SHEET

PLOT DATE : 12/12/2013

PLOT BY ; jaweno PLOT NAME :

PLOT SCALE : 1:20

628.2008 EROSION MAT URBAN CLASS I TYPE B

	URBAN CLASS I TYPE B
LOCATION	SY
STA 8+65 - STA 9+35, LT	41
B-62-0041 INLET	31
B-62-0041 OUTLET	46
STA 10+20 - STA 10+90, RT	69
UNDISTRIBUTED	28
TOTALS:	215

633.5200 MARKERS CULVERT END

STATION	LOCATION	EACH
9+45	27' RT	1
9+76	26' LT	1
9+91	27' RT	1
10+36	26' LT	1
	TOTAL:	4

634.0616 POSTS WOOD 4x6-INCH x 16-FT 637.2210 SIGNS TYPE II REFLECTIVE H

				SIGNS	WOOD	
		SIGN		REFECTIVE	POSTS	
STATION	LOCATION	CODE	SIZE	SF	EACH	COMMENTS
9+75	RT	-	-	-	-	WEIGHT LIMIT POSTING (REMOVED BY COUNTY)
10+25	LT	-	-	-	-	WEIGHT LIMIT POSTING (REMOVED BY COUNTY)
10+23	40' RT	R1-1	2S	5.18	1	STOP SIGN
		TOTALS:		5.18	1	

646.0106 PAVEMENT MARKING EPOXY 4-INCH

				PAVEMENT	PAVEMENT
				MARKING	MARKING
				YELLOW	WHITE
STATION	-	STATION	LOCATION	LF	LF
8+50	-	11+00	CENTERLINE - DOUBLE SOLID	500	-
8+50	-	11+00	EDGELINE LT & RT - SOLID	-	500
			TOTAL:	1000	

650.4500 CONSTRUCTION STAKING SUBGRADE

650.5000 CONSTRUCTION STAKING BASE

650.9920 CONSTRUCTION STAKING SLOPE STAKES

650.9910 CONSTRUCTION STAKING SUPPLEMENTAL CONTROL 5289-00-70

					SLOPE	SUPPLEMENTAL
			SUBGRADE	BASE	STAKES	CONTROL
STATION	-	STATION	LF	LF	LF	LS
8+50	-	11+00	250	250	250	-
PIETSCH ROAD			50	50	50	-
		TOTALS:	300	300	300	1

690.0150 SAWING ASPHALT

LF
21
21
12
54

PROJECT NO: 5289-00-70

HWY: CTH S

COUNTY: VERNON

MISCELLANEOUS QUANTITIES

PLOT NAME :

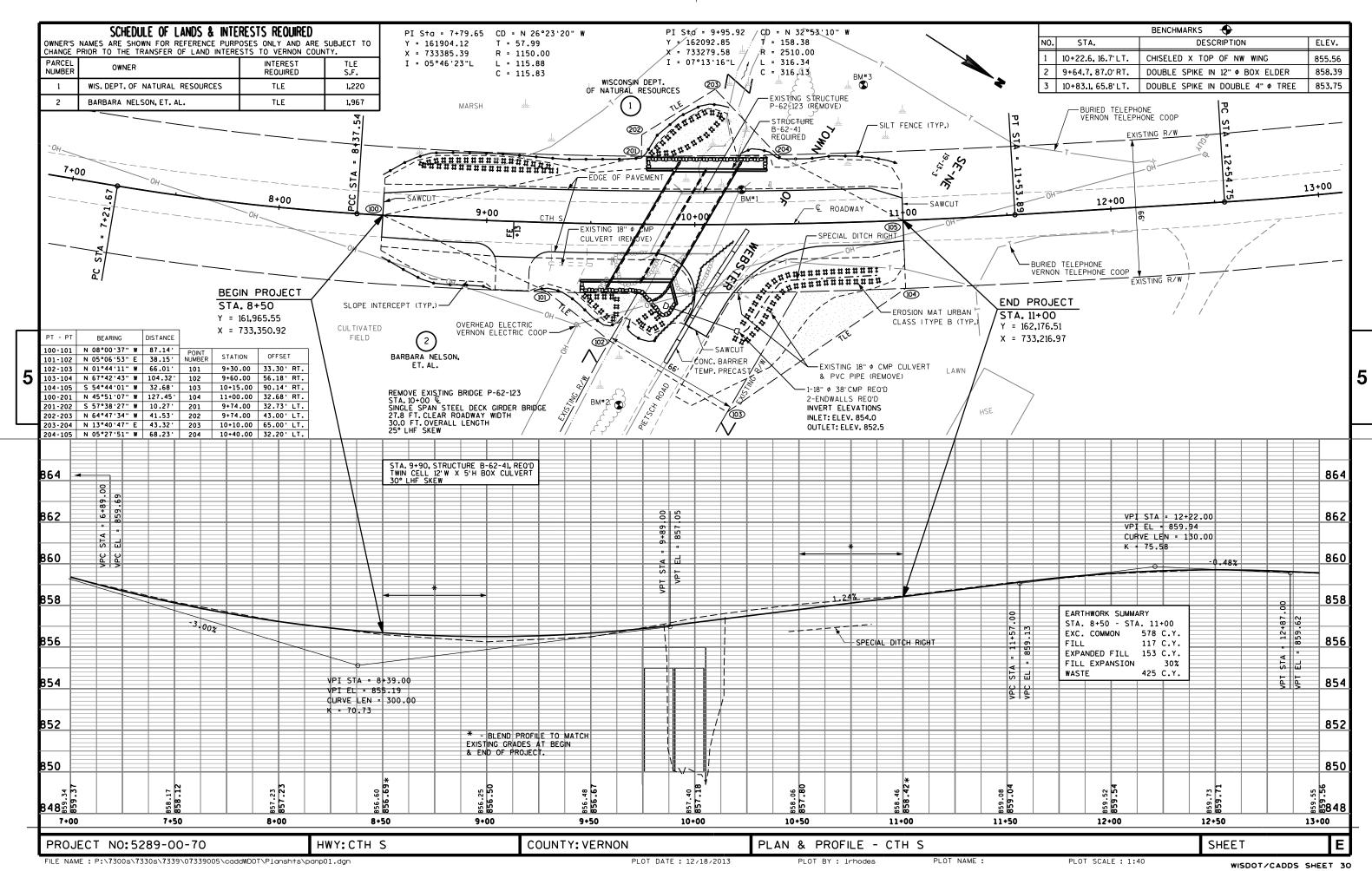
SHEET

FILE NAME ; P:\7300s\7330s\7339\07339005\Estimate\07339005_MiscOty & Earthwork Borders.dgm

PLOT DATE : 12/12/2013

PLOT BY ; jaweno

PLOT SCALE : 1:20



Standard Detail Drawing List

08E09-06	SILT FENCE
08F01-11	APRON ENDWALLS FOR CULVERT PIPE
08F04-07	JOINT TIES FOR CONCRETE PIPE AND CONCRETE COLLAR DETAIL
12A03-10	NAME PLATE (STRUCTURES)
14B07-13A	CONCRETE BARRIER TEMPORARY PRECAST, 12'-6"
14B07-13B	CONCRETE BARRIER TEMPORARY PRECAST, 12'-6"
14B07-13C	CONCRETE BARRIER TEMPORARY PRECAST, 12'-6"
14B07-13D	CONCRETE BARRIER TEMPORARY PRECAST, 12'-6"
14B07-13E	CONCRETE BARRIER TEMPORARY PRECAST, 12'-6"
14B07-13F	CONCRETE BARRIER TEMPORARY PRECAST, 12'-6"
14B07-13G	CONCRETE BARRIER TEMPORARY PRECAST, 12'-6"
14B07-13H	CONCRETE BARRIER TEMPORARY PRECAST, 12'-6"
15A03-02A	FLEXIBLE MARKER POST FOR CULVERT END
15A03-02B	FLEXIBLE MARKER POST FOR CULVERT END
15C02-05A	BARRICADES AND SIGNS FOR MAINLINE CLOSURES
15C02-05B	BARRICADES AND SIGNS FOR MAINLINE CLOSURES
15C08-16A	PAVEMENT MARKING (MAINLINE)

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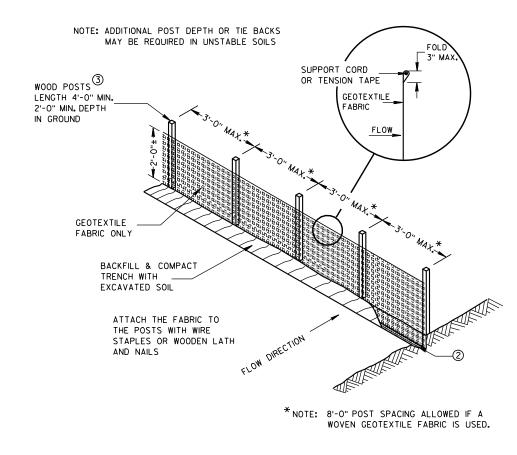
TYPICAL APPLICATION OF SILT FENCE

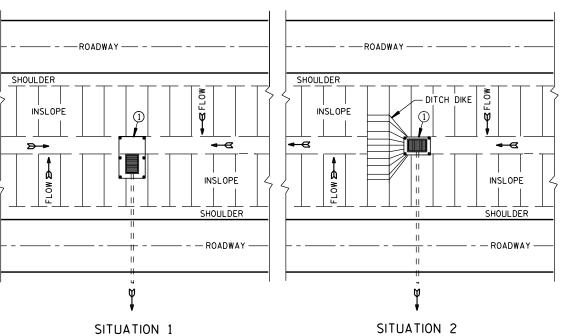
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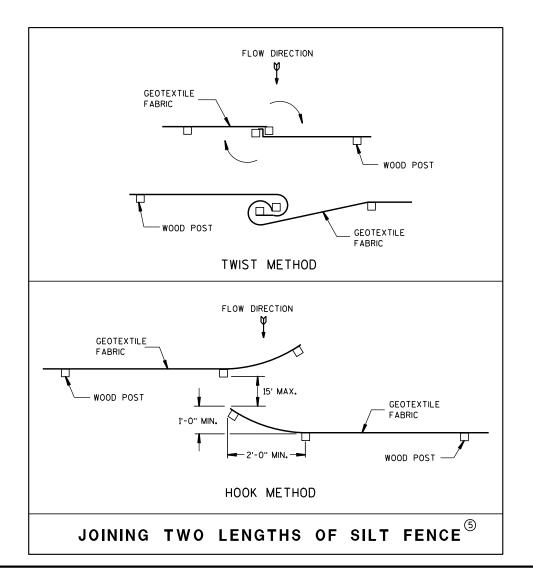
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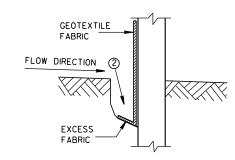
PLAN VIEW SILT FENCE AT MEDIAN SURFACE DRAINS



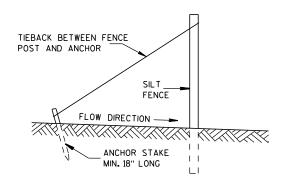
GENERAL NOTES

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

- \bigcirc 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.

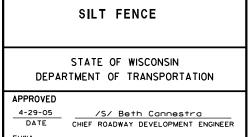


TRENCH DETAIL



SILT FENCE TIE BACK

(WHEN REQUIRED BY THE ENGINEER)



SILT FENCE

S.D.D. 8 E 9-6

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METAL APRON ENDWALLS											
PIPE	MIN. 1	THICK.			DIMENS	SIONS (I	nches)			APPROX.	
DIA.	(Incl		A	В	Н	L	Γį	L ₂	W	SLOPE	BODY
(IN.)	STEEL	ALUM.	(±1")	(MAX.)	(±1")	(±1 ½")	①	0	(±2")	320.2	
12	.064	.060	6	6	6	21	12	171/2	24	2½+o 1	1Pc.
15	.064	.060	7	8	6	26	14	213/4	30	2½to 1	1Pc.
18	.064	.060	8	10	6	31	15	281/4	36	21/2+o 1	1Pc.
21	.064	.060	9	12	6	36	18	295/8	42	21/2+o 1	1Pc.
24	.064	.075	10	13	6	41	18	371/4	48	21/2+o 1	1Pc.
30	.079	.075	12	16	8	51	18	521/4	60	21/2+0 1	1Pc.
36	.079	. 105	14	19	9	60	24	59¾	72	21/2+o 1	2 Pc.
42	.109	.105	16	22	11	69	24	75%	84	21/2 to 1	2 Pc.
48	.109	.105	18	27	12	78	24	81	90	2 ¹ / ₄ +o 1	3 Pc.
54	.109	.105	18	30	12	84	30	851/2	102	2 ¹ / ₄ †o 1	3 Pc.
60	.109×	.105×	18	33	12	87	_	_	114	2 to 1	3 Pc.
66	.109×	.105×	18	36	12	87	_	_	120	2 to 1	3 Pc.
72	.109×	.105×	18	39	12	87	_	_	126	2 to 1	3 Pc.
78	.109×	.105×	18	42	12	87	_	_	132	11/2+0 1	3 Pc.
84	.109×	.105×	18	45	12	87	_	_	138	11/2 to 1	3 Pc.
90	.109×	.105×	18	37	12	87	_	_	144	11/2+0 1	3 Pc.
96	.109×	.105×	18	35	12	87	_	_	150	1/2+0 1	3 Pc.

	REINFORCED CONCRETE APRON ENDWALLS								
PIPE			DIM	ENSIONS	(Inches)			APPROX.	
DIA.	T	A	В	С	D	Ε	G	SLOPE	
12	2	4	24	48 1/8	721/8	24	2	3 to 1	
15	21/4	6	27	46	73	30	21/4	3 to 1	
18	21/2	9	27	46	73	36	21/2	3 to 1	
21	23/4	9	36	371/2	731/2	42	23/4	3 to 1	
24	3	91/2	431/2	30	731/2	48	3	3 to 1	
27	31/4	101/2	491/2	24	731/2	54	31/4	3 to 1	
30	$3\frac{1}{2}$	12	54	193/4	731/2	60	31/2	3 to 1	
36	4	15	63	34¾	97¾	72	4	3 to 1	
42	$4\frac{1}{2}$	21	63	35	98	78	41/2	3 to 1	
48	5	24	72	26	98	84	5	3 to 1	
54	51/2		65	**************************************	8 ¹ / ₄ - 100	90	51/2	2% to 1	
60	6	* * * 30-35	60	39	99	96	5	2 to 1	
66	61/2	* * * 24-30	* * * 72-78	* * * 21-27	99	102	51/2	2 to 1	
72	7	* ** 24-36	78	21	99	108	6	2 to 1	
78	71/2	* ** 24-36	78	21	99	114	61/2	2 to 1	
84	8	36	901/2	21	1111/2	120	61/2	1½+o 1	
90	81/2	41	871/2	24	1111/2	132	61/2	11/2+0 1	

THREADED %6" DIA. ROD CONNECTOR AROUND CULVERT & THROUGH TANK TYPE CONNECTOR LUG LUG OR ALTERNATE CONNECTOR STRAP (SEE DETAIL) MEASURED LENGTH OF CULVERT TYPE 1 FOR 12" THRU 24" CORR. PIPE







NOTE: DIMPLED BAND FITS OVER OUTSIDE OF ENDWALL. AND CORRUGATED BAND FITS INSIDE ENDWALL.

CORRUGATED PIPE. FOR CIRCUMFERENTIALLY CORRUGATED PIPE USE ENDWALL CONNECTION DETAILS 1, 2, 3 OR 5

DIMPLED BAND MAY BE USED WITH HELICALLY

FOR HELICALLY CORRUGATED PIPE USE ENDWALL CONNECTION DETAILS 1, 2 OR 5.

FOR HELICALLY CORRUGATED PIPES WITH TWO CIRCUMFERENTIAL CORRUGATIONS AT EACH END USE ENDWALL CONNECTION DETAILS 1, 2 OR 3.

1" WIDE, 12 GA. (0.109" THICK) GALVANIZED STRAP WITH STANDARD 6" X 1/2" BAND BOLT AND NUT ALTERNATE FOR TYPE 1 CONNECTION END SECTION CONNECTOR STRAP

* EXCEPT CENTER PANEL SEE GENERAL NOTES





SHOULDER

SLOPE



SIDE ELEVATION METAL ENDWALLS



**MAXIMUM





CONCRETE ENDWALLS

CONNECTION DETAILS



SECTION A-A

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.

CONCRETE CULVERT ENDWALLS MAY NOT BE USED WITH GALVANIZED STEEL OR ALUMINUM CULVERT PIPE OR VISE VERSA, GALVANIZED STEEL OR ALUMINUM ENDWALLS SHALL NORMALLY BE INSTALLED ON CULVERT PIPE OF THE SAME METAL.

ALL THREE PIECE STEEL APRON ENDWALLS FOR 60" DIAMETER PIPE AND LARGER SHALL HAVE 0.109" SIDES AND 0.138" CENTER PANELS. ALL THREE PIECE ALUMINUM APRON ENDWALLS FOR 60" DIAMETER PIPE AND LARGER SHALL HAVE 0.105" SIDES AND 0.134" CENTER PANELS. THE WIDTH OF CENTER PANELS SHALL BE GREATER THAN 20 PERCENT OF THE PIPE

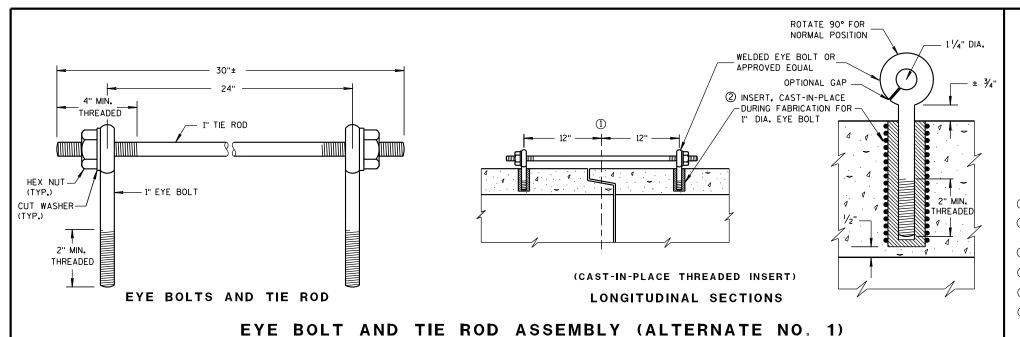
LAP SEAMS SHALL BE TIGHTLY JOINED BY GALVANIZED RIVETS OR BOLTS FOR STEEL UNITS AND ALUMINUM RIVETS AND BOLTS FOR ALUMINUM UNITS. FOR THE 60" THROUGH 96" DIAMETER APRON ENDWALL SIZES. THE REINFORCED EDGES AND CENTER PANEL SEAMS SHALL BE FURTHER REINFORCED WITH GALVANIZED STEEL OR ALUMINUM STIFFENER ANGLES. THE ANGLES SHALL BE ATTACHED BY GALVANIZED NUTS AND BOLTS FOR STEEL UNITS AND ALUMINUM NUTS AND BOLTS FOR ALUMINUM UNITS.

WHERE TWO OR MORE PIPES WITH APRON ENDWALLS ARE LAID ADJACENT TO EACH OTHER, THEY SHALL BE SEPARATED BY A DISTANCE SUFFICIENT TO PROVIDE A MINIMUM CLEARANCE OF 6 INCHES BETWEEN APRON ENDWALLS.

(1) FOR PIPE SIZES UP TO 60" DIAMETER, A 180° ROLLED EDGE MAY BE USED INSTEAD OF STEEL ROD REINFORCEMENT. SEE SECTION A-A.



11/30/94 /S/ Rory L. Rhinesmith CHIEF ROADWAY DEVELOPMENT ENGINEER



GENERAL NOTES

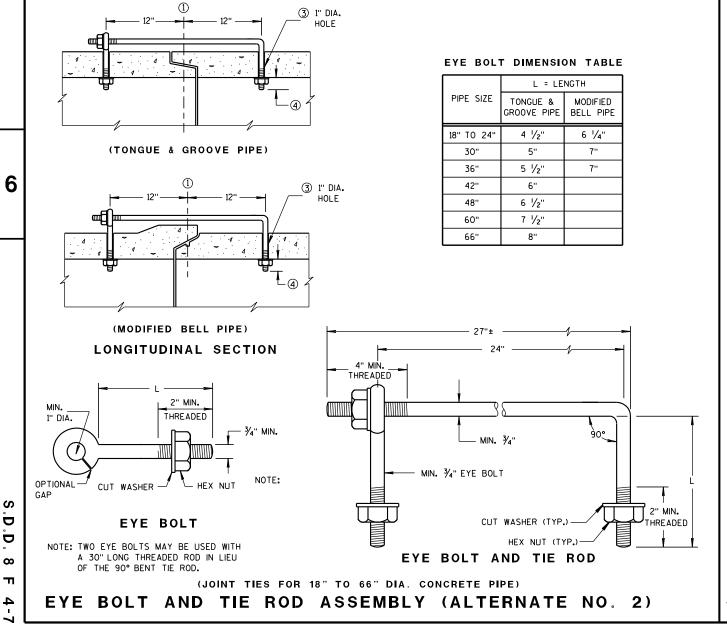
DETAILS OF CONSTRUCTION, MATERIALS, AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS AND APPLICABLE SPECIAL PROVISIONS.

CONCRETE CULVERT AND STORM SEWER PIPE SHALL BE TIED TOGETHER IN THE MANNER ILLUSTRATED BY THIS DETAIL AT LOCATIONS DESIGNATED IN THE STANDARD SPECIFICATIONS AND THE PLAN. THE CONTRACTOR MAY USE EITHER ALTERNATE 1, 2 OR 3 FOR DRAINAGE STRUCTURES, ONLY ALTERNATE 1 AND 3 MAY BE USED FOR CATTLE PASSES, UNLESS OTHERWISE STATED IN THE CONTRACT. THE MATERIALS, FABRICATION AND WORK NECESSARY TO TIE THE PIPE BY THIS DETAIL WILL BE CONSIDERED INCIDENTAL TO THE PIPE AND APRON ENDWALLS IF REQUIRED.

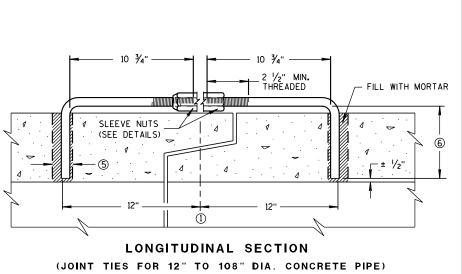
DETAILED DRAWINGS FOR PROPOSED ALTERNATE DESIGNS FOR JOINT TIES SHALL BE SUBMITTED TO THE ENGINEER FOR APPROVAL.

JOINT TIES TO BE HOT-DIP GALVANIZED PER ASTM A 153.

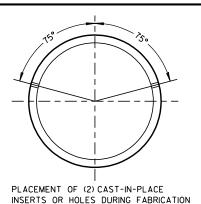
- (1) & OF TONGUE AND GROOVE OR BELL AND SPIGOT JOINTS.
- THE INSIDE OF THE THREADED INSERTS SHALL BE CLEAN TO ALLOW THE INSERTION OF THREADED EYE
- ${\mathfrak S}$ HOLES SHALL BE CAST-IN-PLACE OR DRILLED 12 INCHES FROM ${\mathfrak L}$ OF TONGUE AND GROOVE.
- 4 BOLT PROJECTION INSIDE OF PIPE SHALL NOT EXCEED 2 INCHES.
- (5) OPENING TO BE ROD DIAMETER PLUS 1 INCH.
- ⑥ LENGTH ADEQUATE TO EXTEND TO WITHIN $rac{1}{2}$ INCH OF THE INNER SURFACE OF THE PIPE.



ADJUSTABLE TIE ROD TABLE 5/8 5 12-60 3/4 5 1/2 3/4 90-108 DIMENSIONS SHOWN ARE IN INCHES **TAPERED** PLAIN RIGHT AND LEFT THREADS **SLEEVE NUTS** 2 1/2" MIN. THREADED

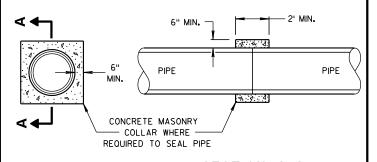


ADJUSTABLE TIE ROD (ALTERNATE NO. 3)



FOR PIPE SECTIONS REQUIRING TIE RODS

TRANSVERSE SECTION



SECTION A-A

CONCRETE COLLAR DETAIL

JOINT TIES FOR CONCRETE PIPE AND CONCRETE COLLAR DETAIL

STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION

6/5/2012 /S/ Jerry H. Zogg DATE ROADWAY STANDARDS DEVELOPMENT ENGINEER

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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

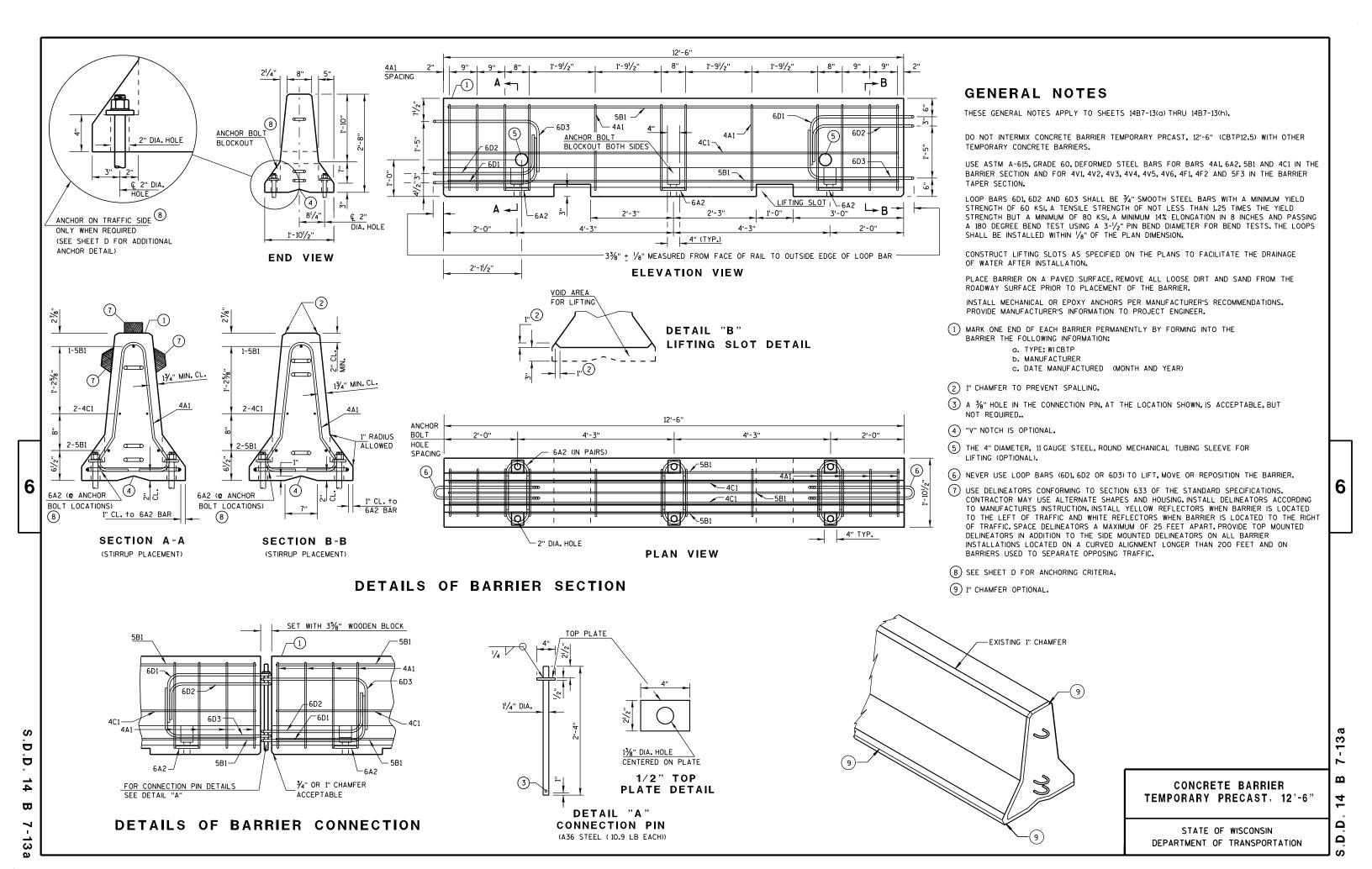
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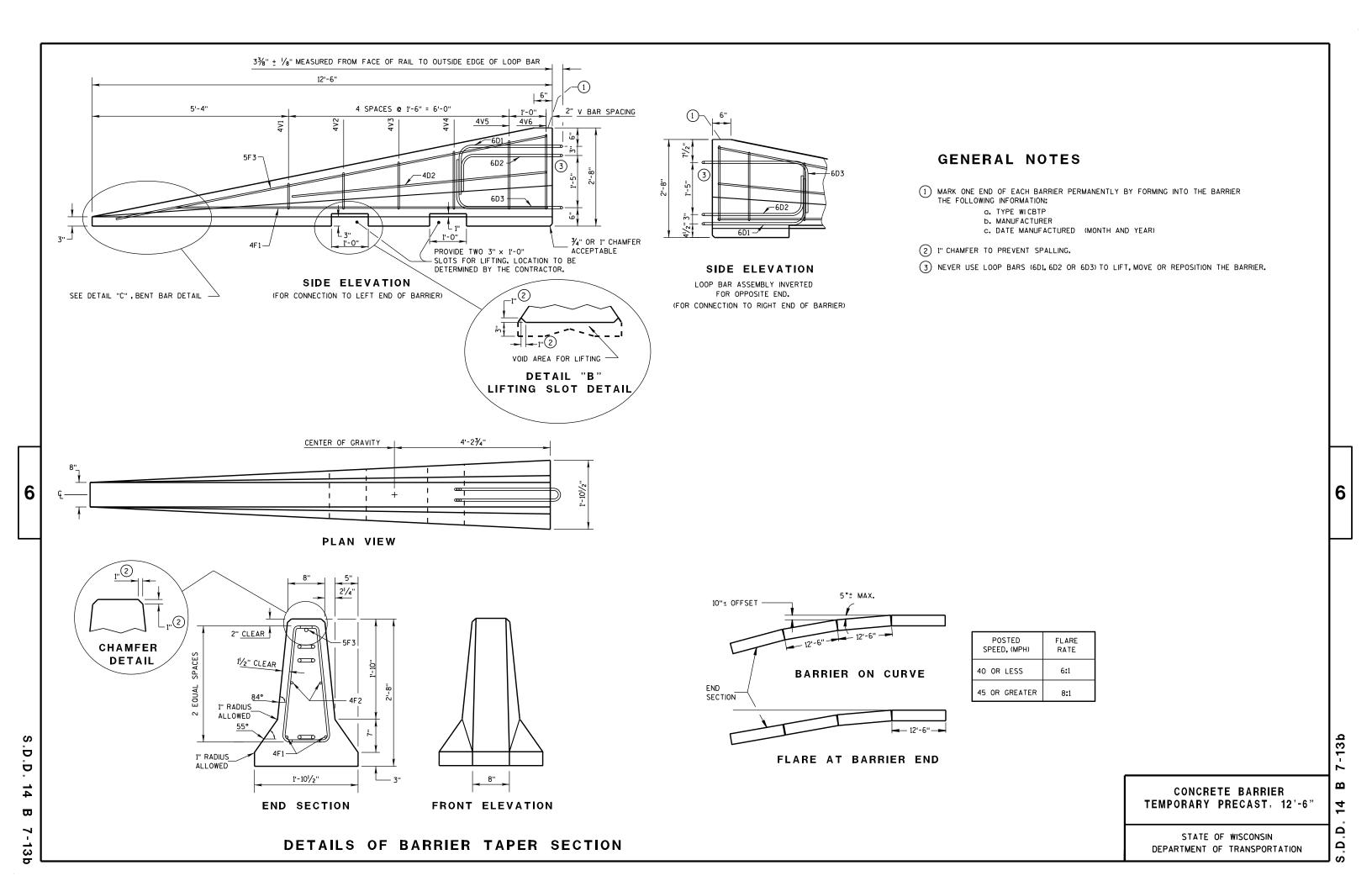
3/26/IO /S/ SCOT BECKET

CHIEF STRUCTURAL DEVELOPMENT ENGINEER

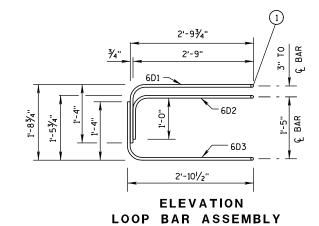
D.D. 12 A

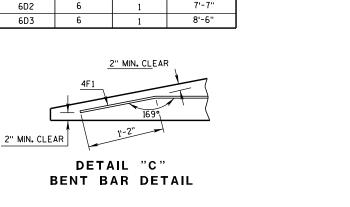
3-10



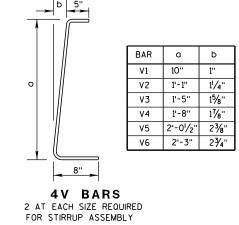


(PER 12'-6" BARRIER TAPER SECTION)							
BAR	BAR SIZE	NO. OF BARS	LENGTH FT.				
4V1	4	2	1'-11"				
4V2	4	2	2'-2"				
4V3	4	2	2'-6"				
4V4	4	2	2'-9"				
4V5	4	2	3'-2"				
4V6	4	2	3'-4"				
4F1	4	2	12'-0"				
4F2	4	2	7'-6''				
5F3	5	1	11'-9''				
L	LOOP ASSEMBLY						





8'-5" 7'-7"



TAPER BARRIER SECTION

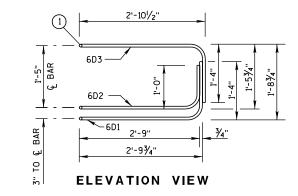
GENERAL NOTES

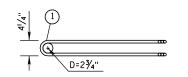
1) NEVER USE LOOP BARS (6D1, 6D2 OR 6D3) TO LIFT, MOVE OR REPOSITION THE BARRIER.

BARRIER SECTION BILL OF MATERIALS

(PER 12'-6" BARRIER SECTION)

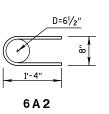
BAR	BAR SIZE	NO. OF BARS	LENGTH FT.					
4A1	4	12	6'-0"					
6A2	6	6	2'-11"					
5B1	5	3	12'-2"					
4C1	4	2	12'-2"					
LOOP ASSEMBLY								
6D1	6	2	8'-5"					
6D2	6	2	7'-7"					
6D3	6	2	8'-6"					

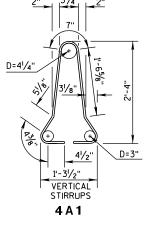




PLAN VIEW
LOOP BAR ASSEMBLY

(MARKED END SHOWN, INVERT FOR OTHER END)

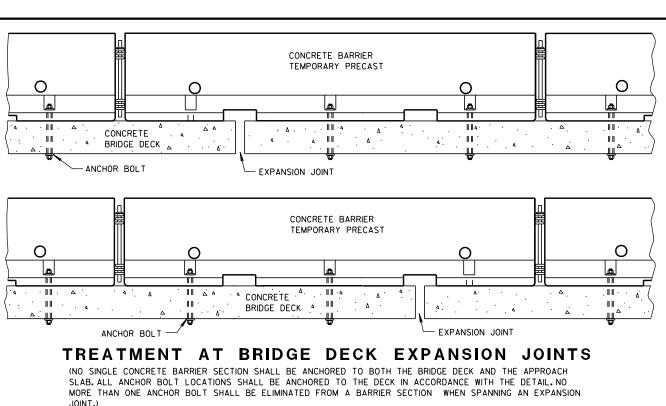




BARRIER SECTION

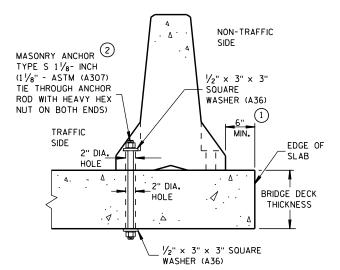
CONCRETE BARRIER
TEMPORARY PRECAST, 12'-6"

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION



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THROUGH BOLTED ANCHOR INSTALLATION ON BRIDGE DECK

(DO NOTUSE ON CONCRETE BRIDGE DECK WITH ASPHALT OVERLAY)

MASONRY ANCHOR TYPE S 1 1/8- INCH . 🗸 $(1\frac{1}{8}" - ASTM (A307)$ ADHESIVE BONDED ANCHOR NON-TRAFFIC WITH HEAVY HEX NUT SIDE AND 1/2" X 3" X 3" SQUARE WASHER (A36)) TRAFFIC SIDE **EMBEDMENT** ablaBRIDGE DECK, APPROACH SLAB OR CONCRETE PAVEMENT

CONCRETE BARRIER

TEMPORARY PRECAST

REMOVABLE ADHESIVE BONDED ANCHOR INSTALLATION ON CONCRETE BRIDGE DECK, CONCRETE APPROACH SLAB, OR CONCRETE PAVEMENT

(DO NOT USE ON CONCRETE WITH AN ASPHALTIC OVERLAY)

GENERAL NOTES

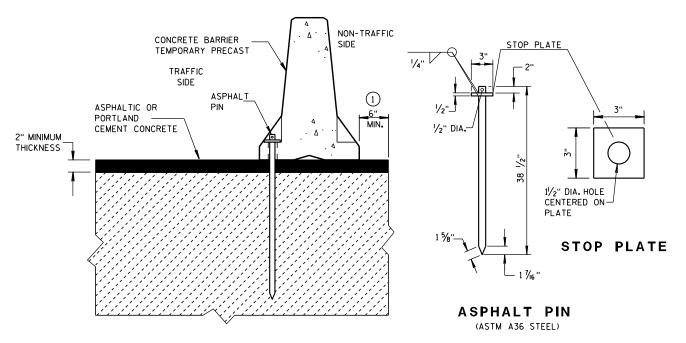
(1) CONCRETE BARRIER TEMPORARY PRECAST, 12'-6" SHALL BE ANCHORED IF: THE DISTANCE TO A 2 FOOT OR GREATER DROPOFF THAT IS STEEPER THAN 3H: 1V. FOR EXAMPLE THE EDGE OF A BRIDGE DECK OR A DROPOFF AT THE EDGE OF PAVEMENT, IS LESS THAN 4 FEET FROM THE SIDE OF THE BARRIER CLOSEST TO THE DROPOFF AND THE POSTED SPEED IS 45 MPH OR GREATER, OR

THE DISTANCE TO A 2 FOOT OR GREATER DROPOFF THAT IS STEEPER THAN 3H: 1V. FOR EXAMPLE THE EDGE OF A BRIDGE DECK OR A DROPOFF AT THE EDGE OF PAVEMENT. IS LESS THAN 2 FEET FROM THE SIDE OF THE BARRIER CLOSEST TO THE DROPOFF AND THE POSTED SPEED IS 40 MPH OR LESS.

(2) ANCHORING IS INCIDENTAL TO CONCRETE BARRIER TEMPORARY PRECAST.

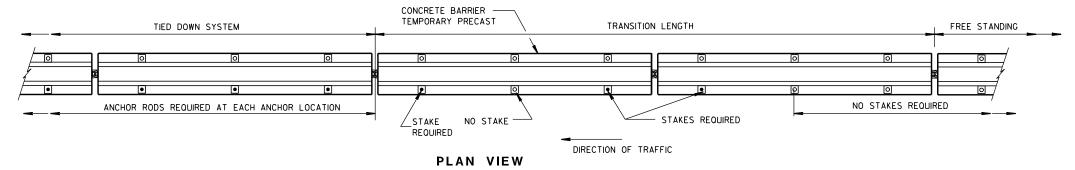
WITH THE APPROVAL OF THE ENGINEER, REMOVABLE ADHESIVE BONDED (EPOXY) ANCHOR BOLT INSTALLATION MAY BE USED IN LIEU OF THROUGH BOLTED ANCHOR INSTALLATION. THE ADHESIVE BONDED ANCHOR BOLT MUST BE REMOVABLE. USE ASTM (A307) MASONRY ANCHORS TYPE S 1 1/a-INCH, EMBEDDED TO A DEPTH SUFFICIENT TO DEVELOP THE ULTIMATE CAPACITY OF THE ANCHOR BOLT AND PROVIDE DOCUMENTATION TO CONFIRM THIS.

UPON REMOVAL OR RELOCATION OF THE BARRIER UNITS, REMOVE ALLANCHOR BOLTS AND COMPLETELY FILL IN THE REMAINING HOLES IN CONCRETE BRIDGE DECKS, CONCRETE APPROACH SLABS AND CON-CRETE PAVEMENTS THAT ARE TO REMAIN, WITH A NON-SHRINK COMMERICAL GROUT OR EPOXY MATERIAL IDENTIFIED ON THE CURRENT WISDOT APPROVED PRODUCTS LIST.



STAKE DOWN INSTALLATION FOR ASPHALTIC OR PORTLAND CEMENT CONCRETE SURFACE

(STAKING IS INCIDENTAL TO CONCRETE BARRIER TEMPORARY PRECAST)



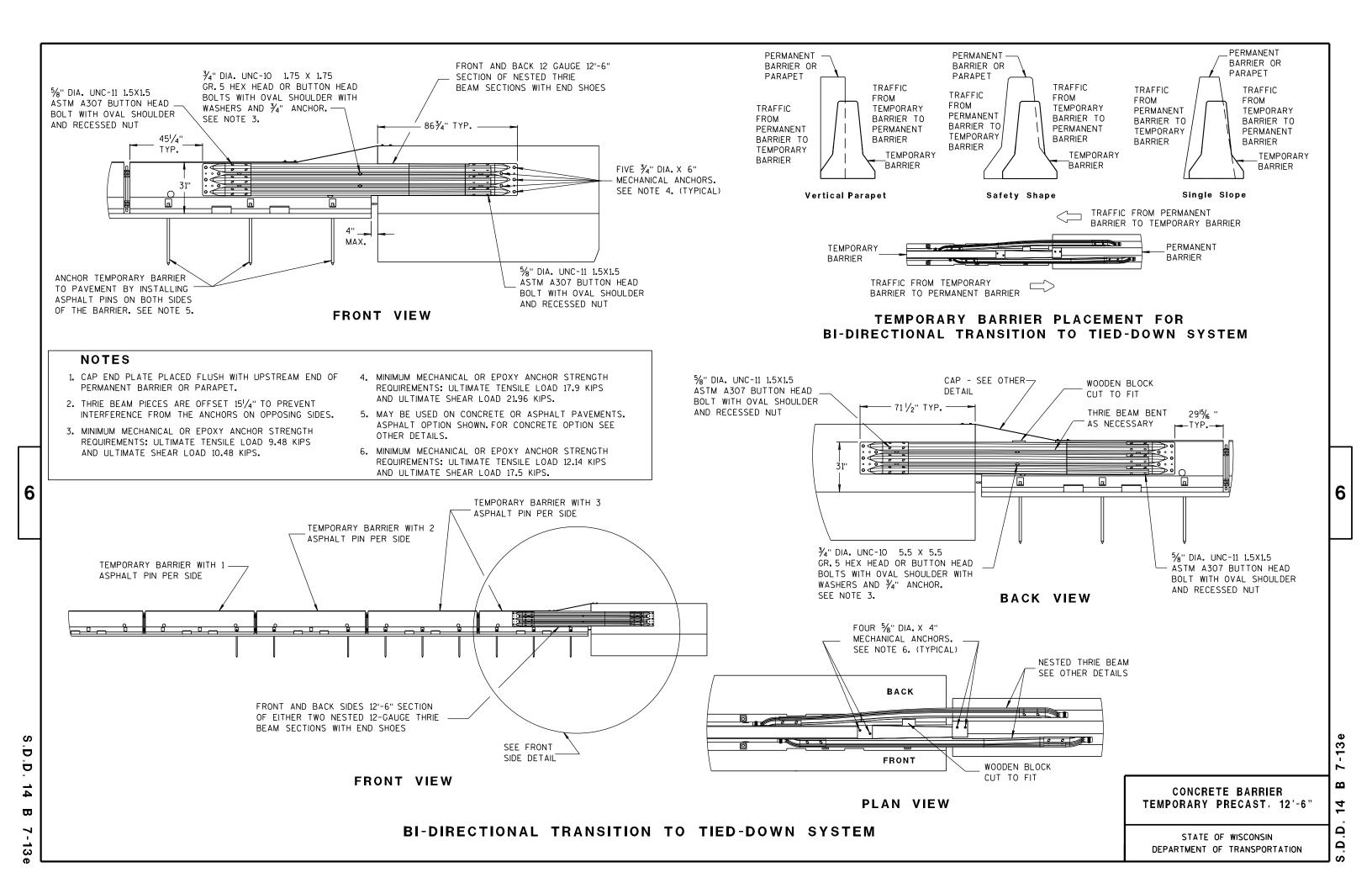
FREE STANDING TRANSITION TO TIED-DOWN SYSTEM

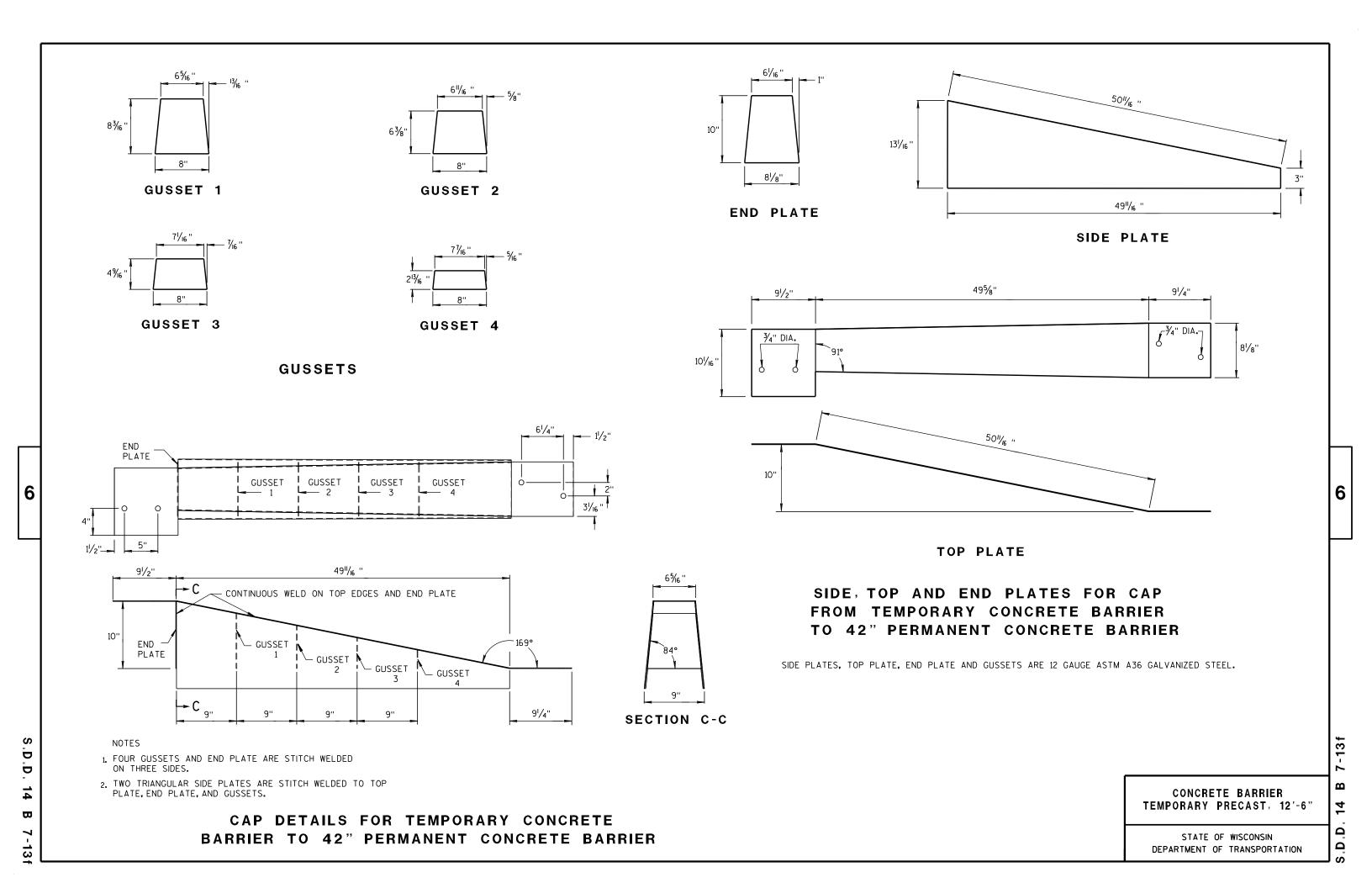
(PLACE TRANSITION IN A TANGENT SECTION OF BARRIER PARALLEL TO THE ROADWAY, IF TRANSITION OCCURS ON STRUCTURAL SLAB, ANCHOR AS SHOWN,)

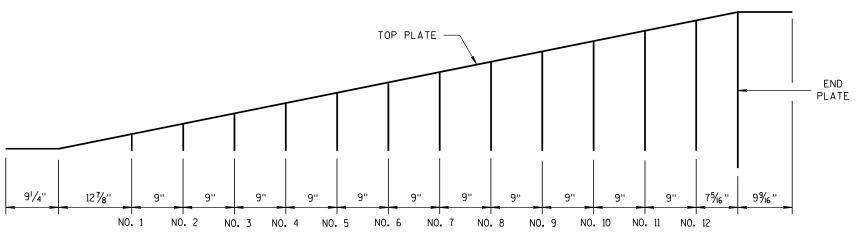
CONCRETE BARRIER TEMPORARY PRECAST, 12'-6'

STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION 6

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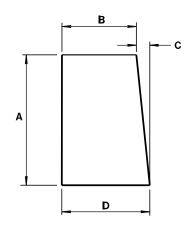






GUSSET LOCATION

CAP DETAILS FOR TEMPORARY CONCRETE BARRIER TO 56" PERMANENT CONCRETE BARRIER



GUSSETS 1 - 12

ALL GUSSETS 1/8" STEEL PLATE

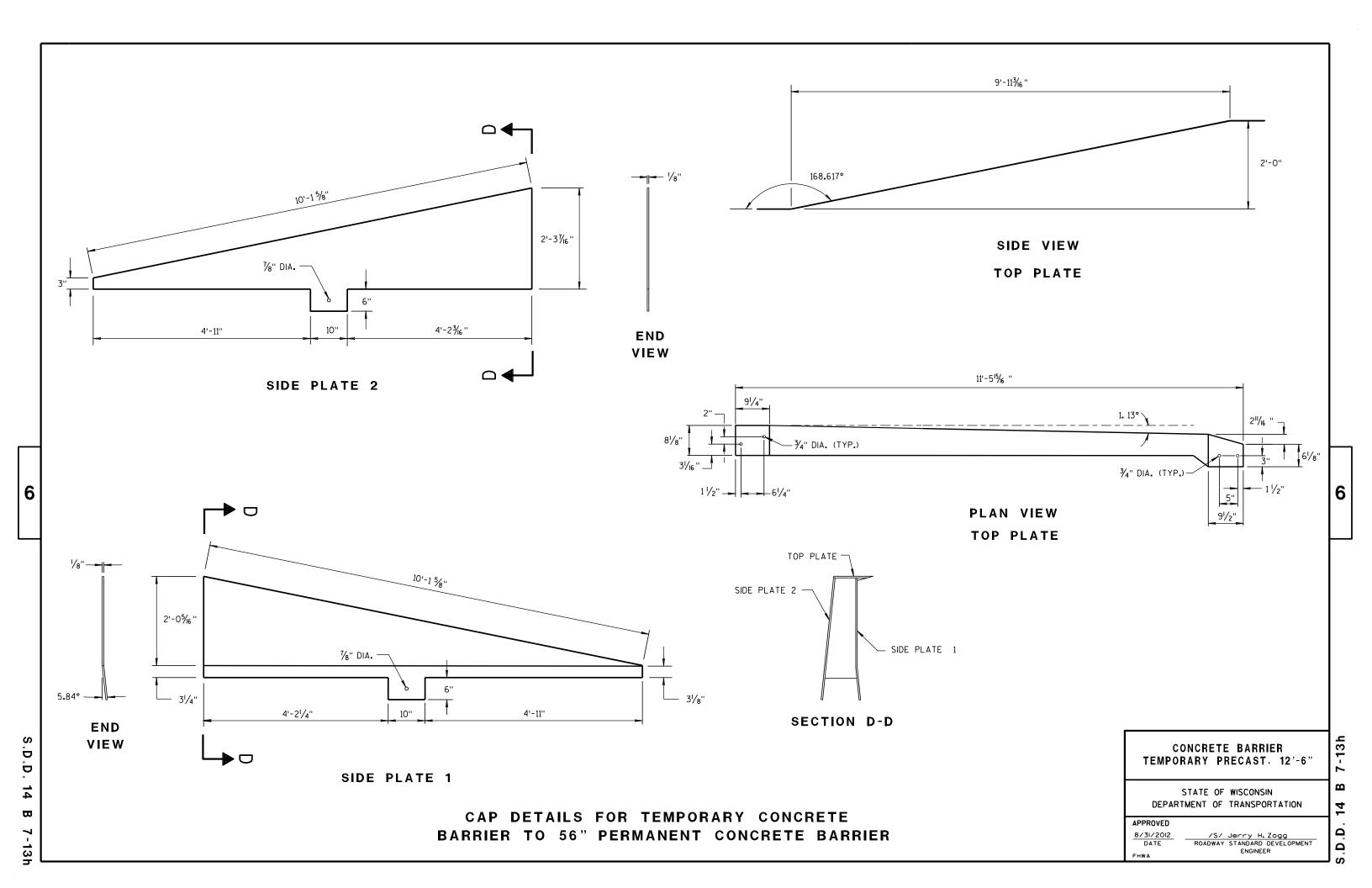
GUSSET DIMENSIONS								
GUSSET NO.	Α	В	С	D				
1	2 1/8"	73/4"	1/4"	8				
2	4"/16 "	7% "	1/2"	8				
3	61/2"	73/8"	11/16 "	81/16 "				
4	85/16"	73/16"	7/8"	81/16"				
5	101/8"	7''	1 1/16 "	8½ ₆ "				
6	11 ¹⁵ / ₁₆ ''	6 ¹³ / ₁₆ ''	1 1/4"	8½ ₆ "				
7	13¾"	65⁄8''	1 1/6"	8½ ₆ "				
8	15% "	6 ⅓ ₆ ''	1 % "	8½6"				
9	173/8"	6 ¹ / ₄ "	1 ¹³ / ₁₆ ''	8½ ₆ "				
10	193/6"	6½ ₆ "	1 15/16 ''	81/16"				
11	21"	57/8"	23/6"	81/16"				
12	2213/16 "	5 ¹¹ / ₁₆ "	25/6"	81/16"				

SIDE PLATES, TOP PLATE, END PLATE AND GUSSETS ARE 12 GAUGE ASTM A36 STEEL AND GALVANIZED.

GUSSETS AND END PLATE ARE STITCH WELDED ON 3 SIDES. TWO TRIANGULAR SIDE PLATES ARE STITCH WELDED TO TOP PLATE, END PLATE AND GUSSETS.

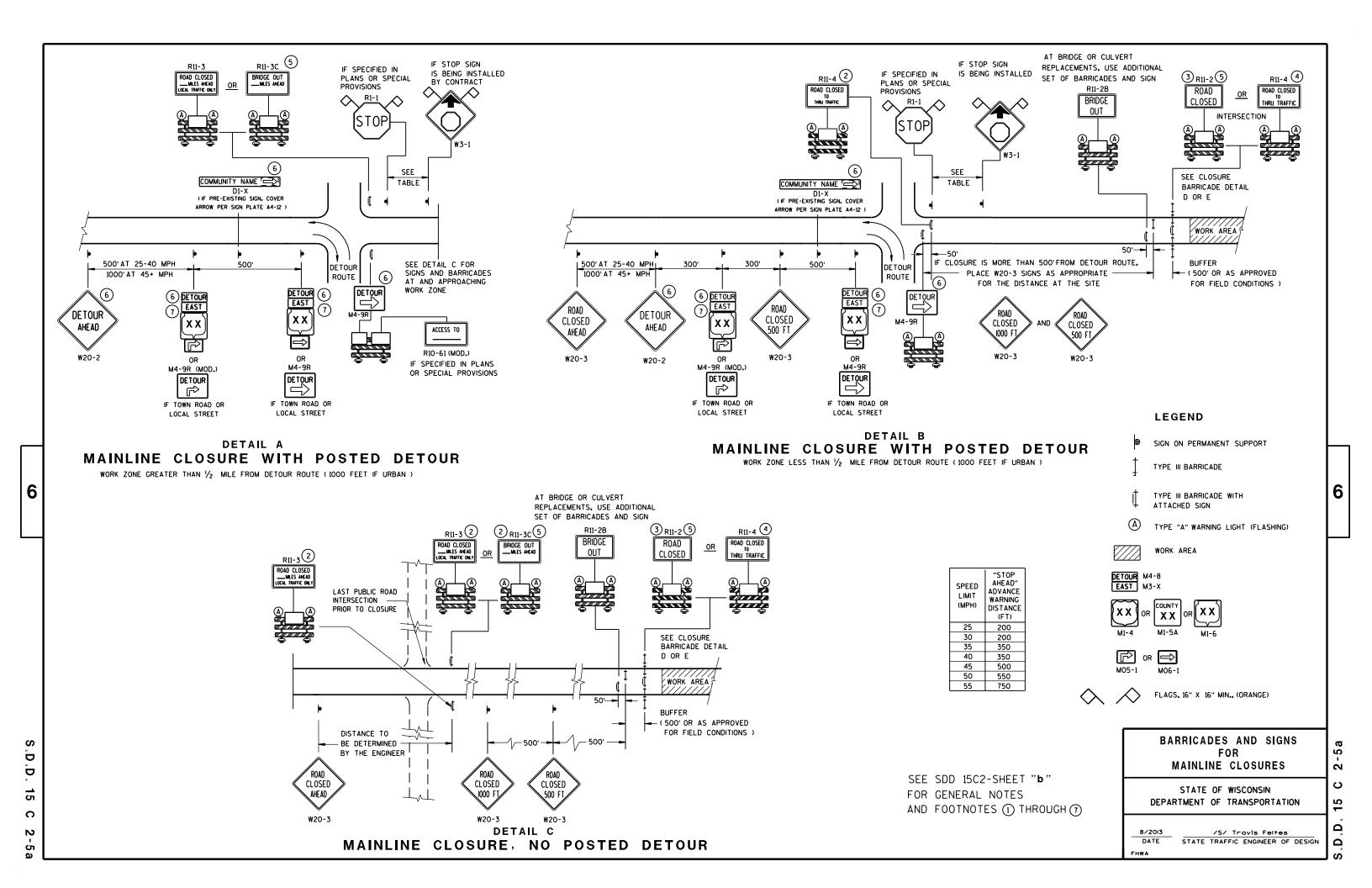
> CONCRETE BARRIER TEMPORARY PRECAST, 12'-6"

STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION





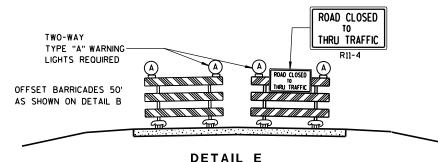




BRIDGE ROAD 1)TWO-WAY **CLOSED** TYPE "A" WARNING LIGHTS REQUIRED OUTSIDE EDGE OF SHOULDER OUTSIDE EDGE OF SHOULDER OR FACE OF CURB OR FACE OF CURB **DETAIL D**

ROAD CLOSURE BARRICADE DETAIL

APPROACH VIEW



LANE CLOSURE BARRICADE DETAIL

APPROACH VIEW

SEE SDD 15C2-SHEET "a" 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

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.

"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 SHALL BE 24" X 12". (36" X 18" IF NEEDED TO MATCH EXISTING SIGNS.) 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
- THESE SIGNS AND BARRICADES ARE NOT REQUIRED IF ROAD CLOSURE BEGINS AT INTERSECTION.
- FOR ROAD CLOSURE WITHOUT LOCAL ACCESS TO PROJECT, SEE ROAD CLOSURE BARRICADE DETAIL D.
- 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

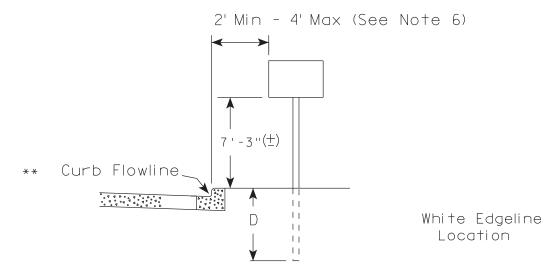
/S/ Travis Feltes STATE TRAFFIC ENGINEER OF DESIGN

2

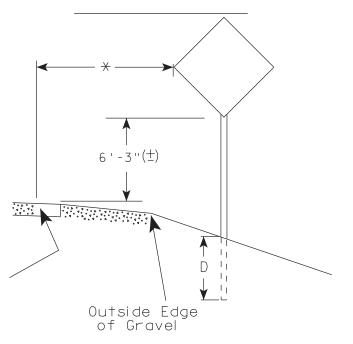
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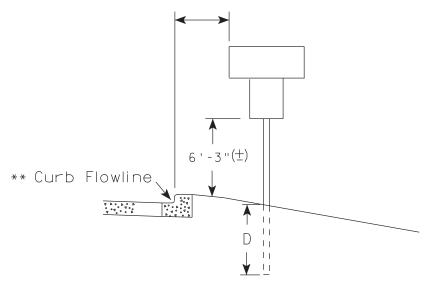
URBAN ARFA



RURAL AREA (See Note 2)



2' Min - 4' Max (See Note 6)



5'-3"(生) White Edgeline D IILocation Outside Edae of Gravel

** The existence of curb and gutter does not in itself mandate the vertical clearance illustrated. That height is typically measured where there is sidewalk adjacent to the roadway

or parking is permitted. In the absence of sidewalk vertical clearance is measured from the top of the curb. Offset of signs is measured from the flow line.

HWY:

* 6 feet from edge of a paved shoulder or 12 feet from the edge of pavement (edge line location) or 2 feet from outside edge of gravel, whichever is greater unless directed by project engineer.

GENERAL NOTES

- 1. Signs wider than 4 feet, 20 sq.ft or larger, shall be mounted on multiple posts. Refer to plate A4-4.
- 2. If signs are mounted on barrier wall, see A4-10 sign plate.
- 3. For expressways and freeways, mounting height is 7'- 3" (+) or 6'-3" (+) depending upon existence of a sub-sign.
- 4. Minimum mounting height for J assemblies (A4-5) is $7'-3''(\pm)$ or $6'-3''(\pm)$ per urban or rural detail respectively.
- 5. Minimum mounting height for signs mounted on traffic signal poles is 5'- 3" (+).
- 6. Offset distance shall be consistent with existing signs or consistent throughout length of project.
- 7. The (+) tolerance for mounting height is 3 inches.
- 8. Folding stop signs (R1-1F) shall be mounted at a height of 5'-3" (+) or as directed by the Engineer.
- 9. The Double Arrow sign (W12-1) shall be mounted at a height of 2'-3'' (\pm). The Chevron sign (W1-8), Roundabout Chevron panel (R6-4B), Enhanced Reference Markers, Clearance Markers (W5-52), Mile Markers (D10 series) & End of Rod Markers (W5-56 & W5-56A) shall be mounted at a height of 4'-3" (+).

POST EMBEDMENT DEPTH

Area of Sign			
Installation	D		
(Sq. Ft.)	(Min)		
20 or Less	4'		
Greater than 20	5'		

PLOT NAME :

TYPICAL INSTALLATION OF PERMANENT TYPE II SIGNS ON SINGLE POSTS

WISCONSIN DEPT OF TRANSPORTATION

SHEET NO:

APPROVED

for State Traffic Engineer

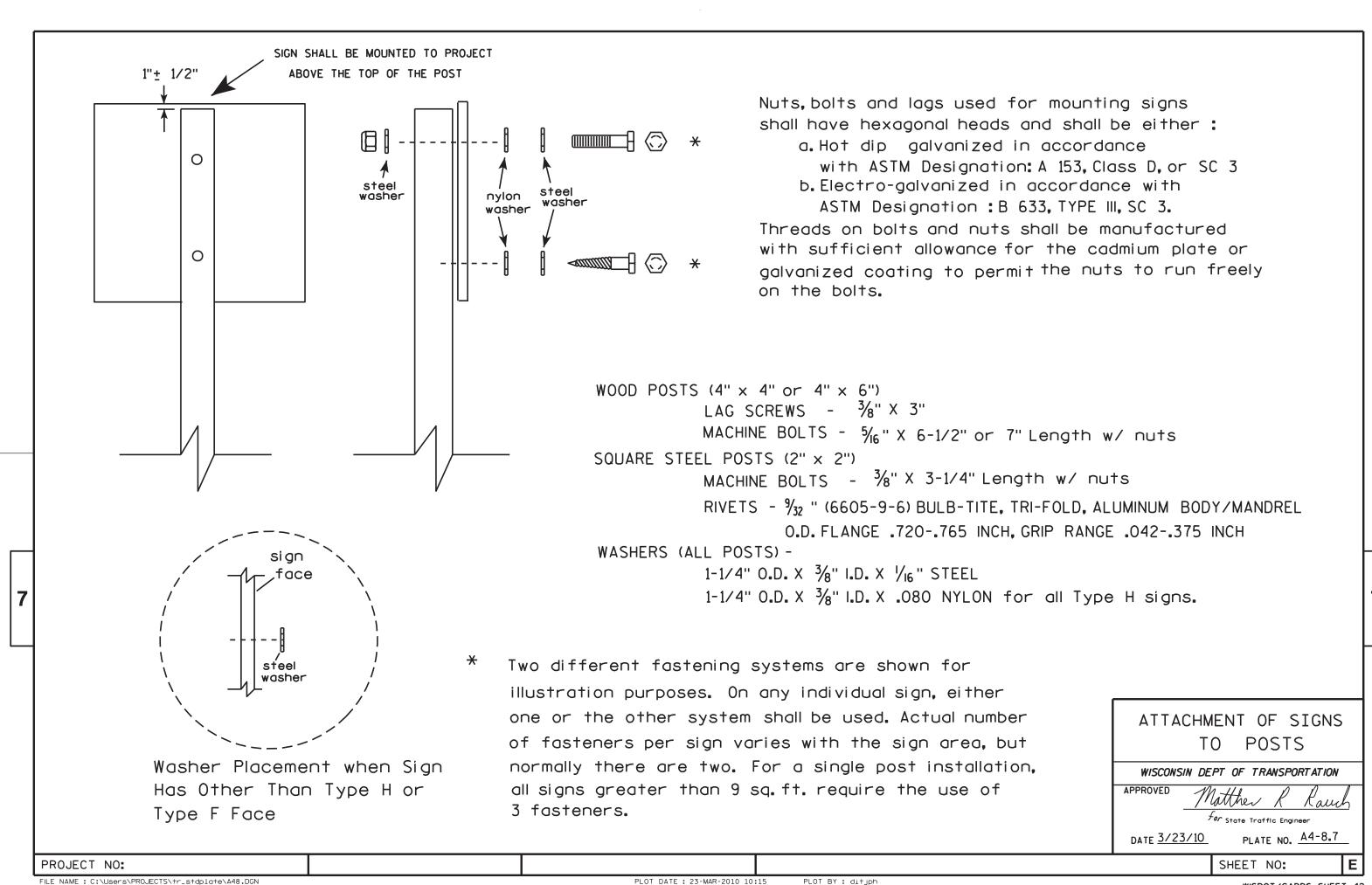
DATE 9/30/13

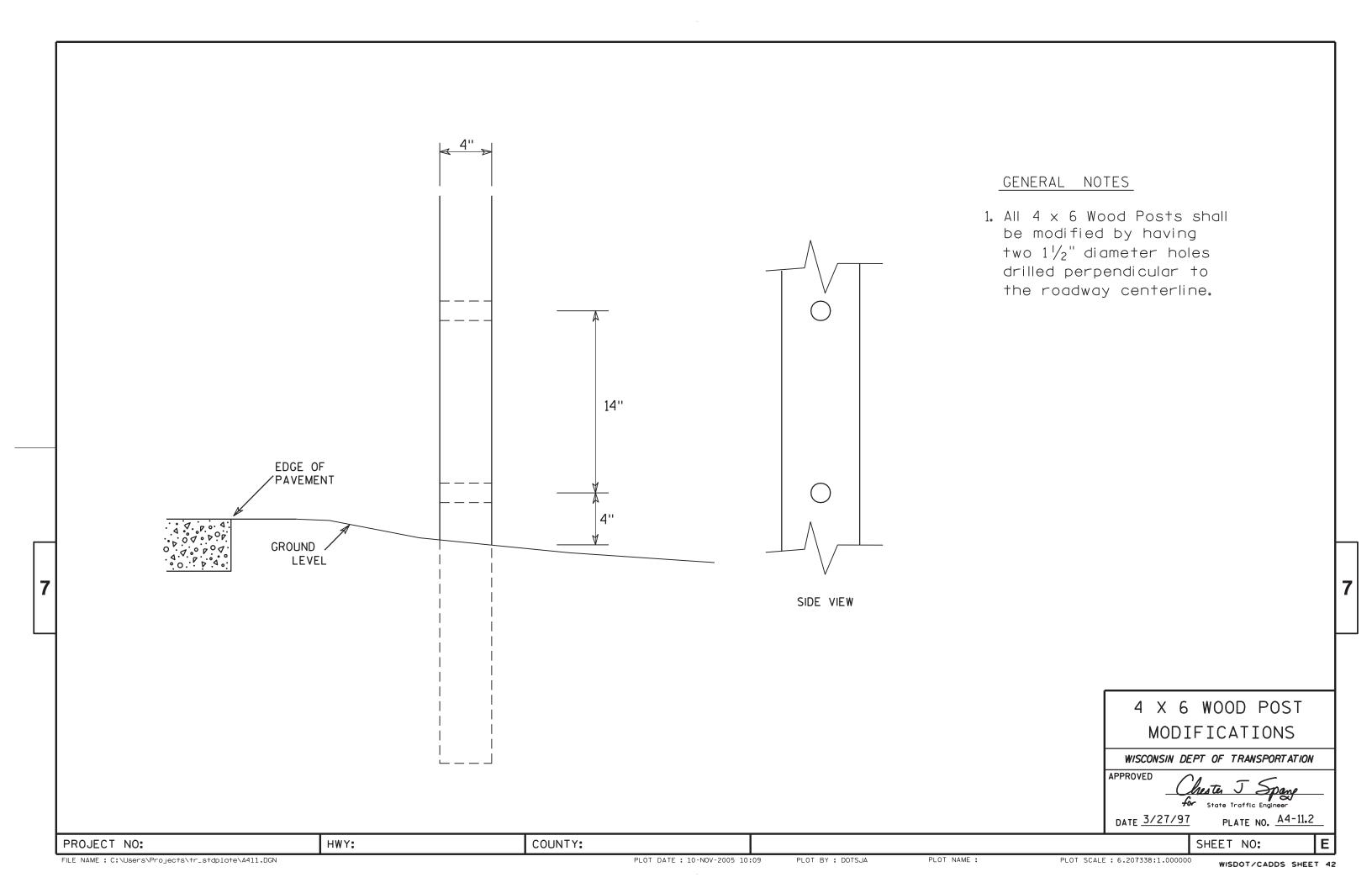
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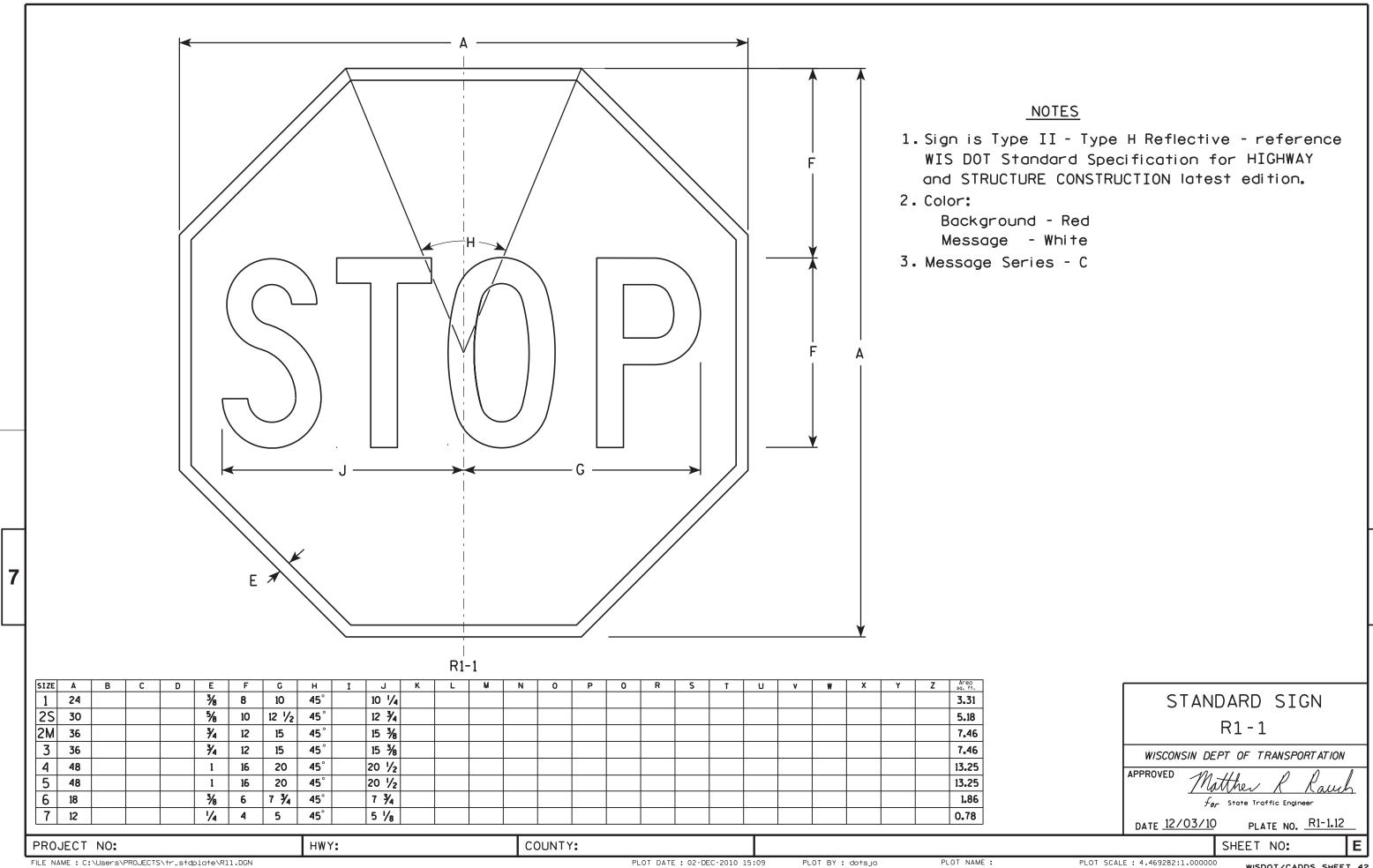
PLOT SCALE: 99.237937:1.000000

WISDOT/CADDS SHEET 42

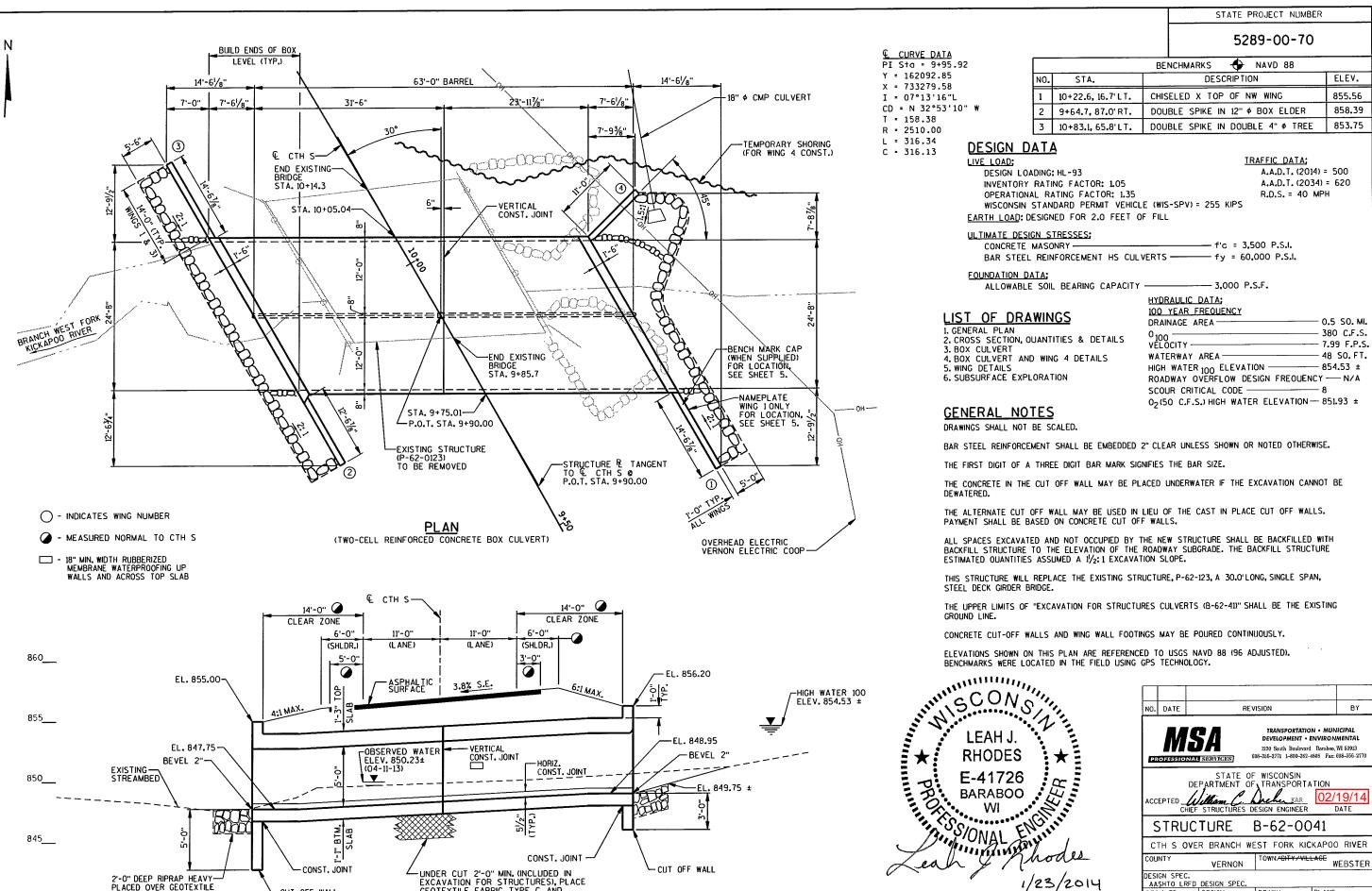
PLOT DATE: 30-SEP-2013 13:25 PLOT BY : mscj9h







WISDOT/CADDS SHEET 42



-CUT OFF WALL

<u>INLET</u>

UNDER CUT 2'-0" MIN. (INCLUDED IN EXCAVATION FOR STRUCTURES), PLACE GEOTEXTILE FABRIC, TYPE C, AND BACKFILL WITH BREAKER RUN BETWEEN THE CUT OFF WALLS. EXTEND 1'-6" BEYOND THE FOOTPRINT OF THE CULVERT ON EACH SIDE.

ELEVATION

CONST. JOINT

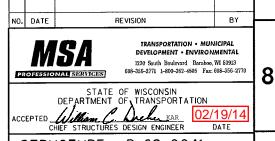
CUT OFF WALL



DESIGN CONTACT:

LEAH RHODES (608) 355-8945

BRIDGE OFFICE CONTACT: WILLIAM DREHER (608) 266-8489



WEBSTER VERNON AASHTO LRFD DESIGN SPEC. DESIGNED DESIGN LJR DRAWN RLR CK'D.

GENERAL PLAN

SHEET 1 OF

840_

2'-0" DEEP RIPRAP HEAVY— PLACED OVER GEOTEXTILE FABRIC TYPE HR (TYP.)

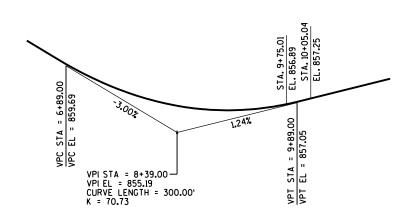
OUTLET

STATE PROJECT NUMBER

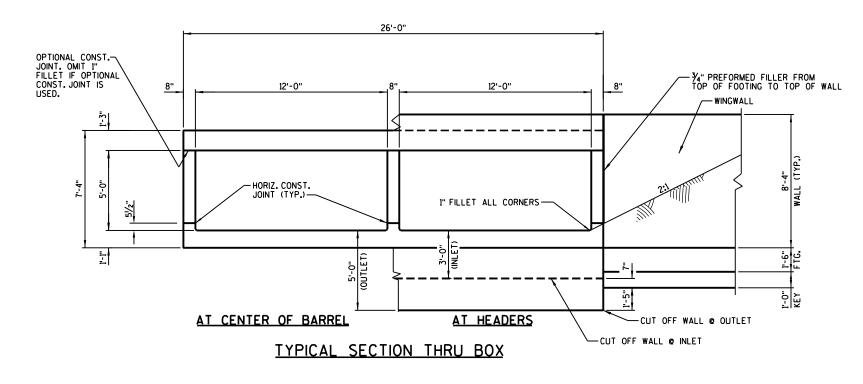
5289-00-70

STRUCTURE ESTIMATED QUANTITIES

ITEM NUMBER	BID ITEM	UNIT	TOTAL
203.0600.S.01	REMOVING OLD STRUCTURE OVER WATERWAY WITH MINIMAL DEBRIS STATION 10+00	LS	1
206.2000.01	EXCAVATION FOR STRUCTURES CULVERTS B-62-0041	LS	1
206.6000.S	TEMPORARY SHORING	SF	575
210.0100	BACKFILL STRUCTURE	CY	465
311.0115	BREAKER RUN	CY	130
504.0100	CONCRETE MASONRY CULVERTS	CY	218
505.0410	BAR STEEL REINFORCEMENT HS CULVERTS	LB	38,310
516.0500	RUBBERIZED MEMBRANE WATERPROOFING	SY	13
606.0300	RIPRAP HEAVY	CY	55
645.0105	GEOTEXTILE FABRIC TYPE C	SY	220
645.0120	GEOTEXTILE FABRIC TYPE HR	SY	135
	NON-BID ITEMS		
	PREFORMED FILLER	SIZE	3/4"



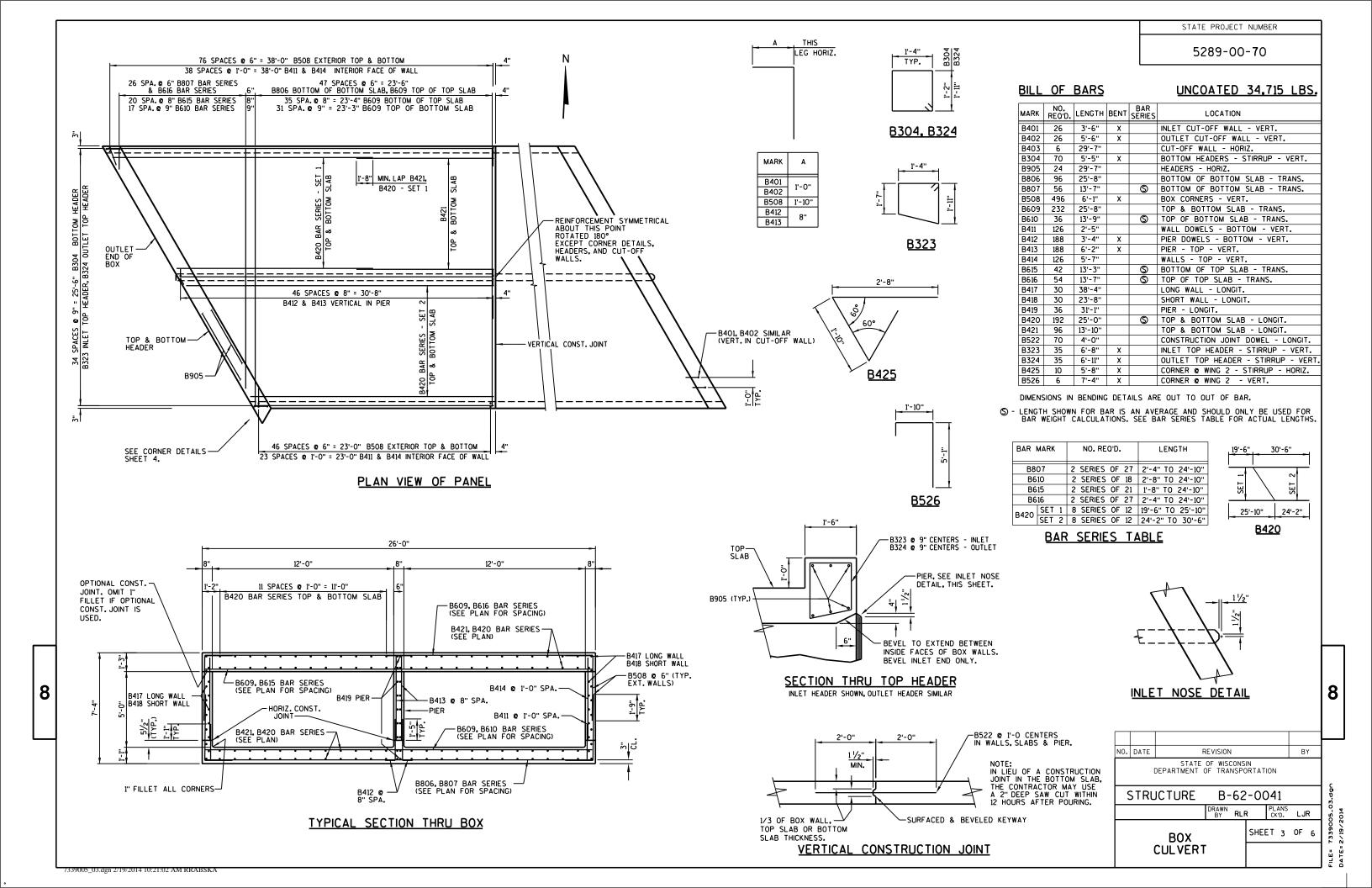
PROFILE GRADE LINE - CTH S

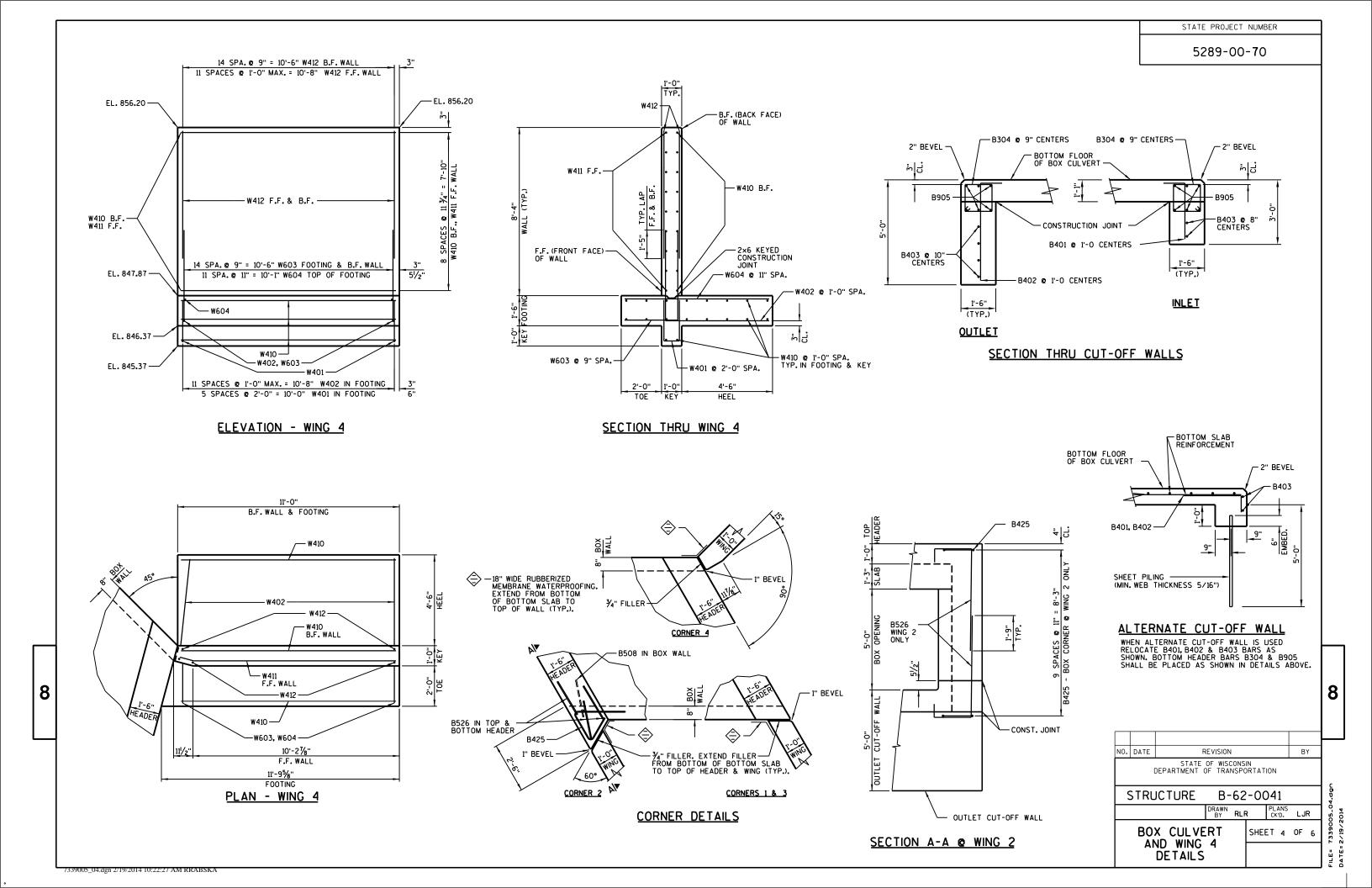


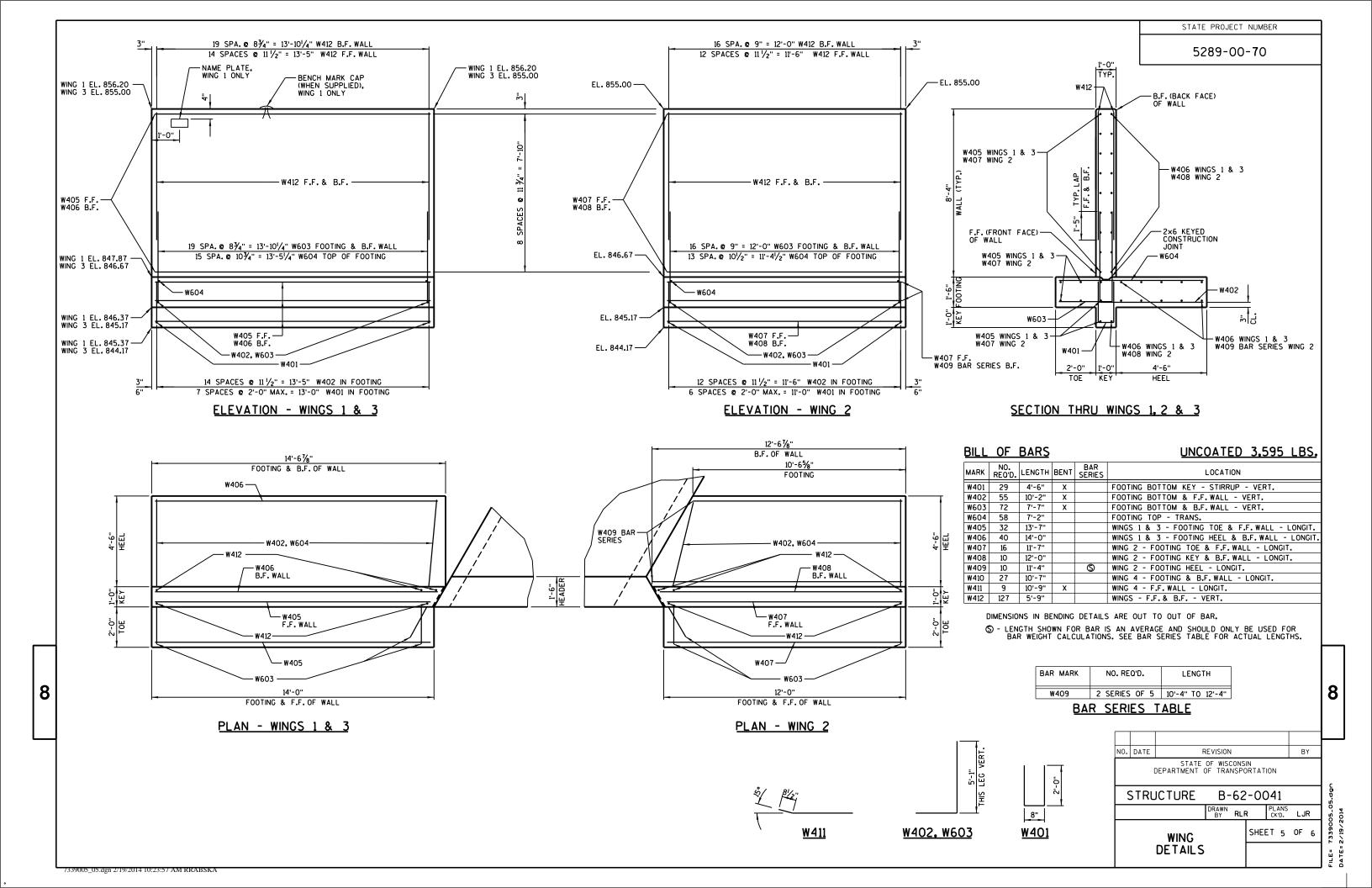
REVISION STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION B-62-0041 STRUCTURE DRAWN BY RLR CROSS SECTION, QUANTITIES & DETAILS

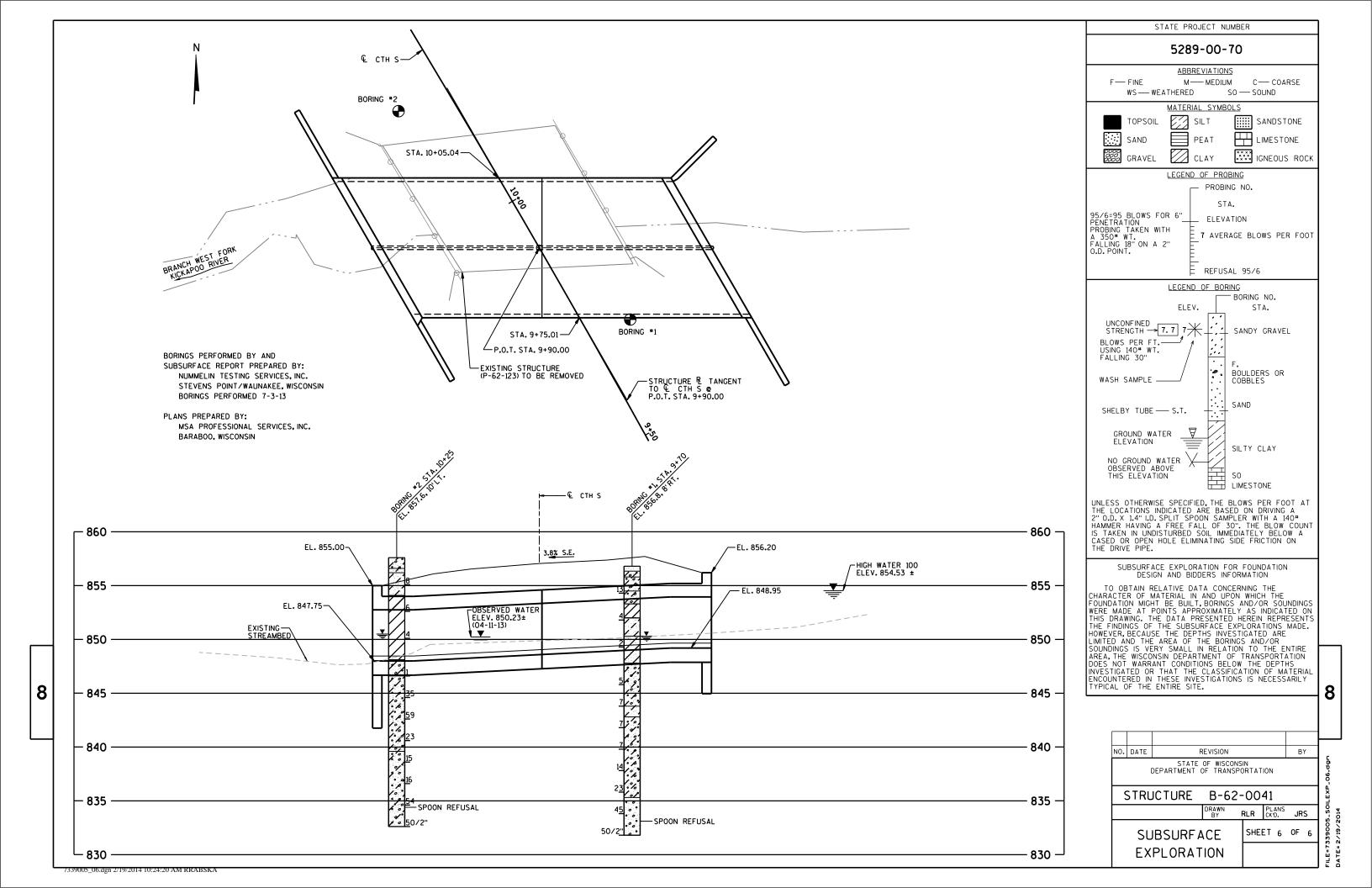
8

SHEET 2 OF 6









PROJECT I.D. 5289-00-70 EARTHWORK SUMMARY

	EXCAVATION	EXCAVATION	EXPANDED		
	COMMON	ROCK	FILL (1)	FILL (2)	WASTE
STA	CY	CY	CY	CY	CY
8+50.00					
	33	0	8	10	23
8+75.00					
	29	0	19	25	4
9+00.00					
	14	0	11	14	0
9+13.00					
	20	0	13	17	3
9+30.00		_			_
	24	0	14	18	6
9+50.00		_			
	45	0	24	31	14
9+86.00	O.T.D.I	IOT IDE D 00 0044			
10.11.00	SIRU	JCTURE B-62-0041			
10+14.00	00	0	-	7	04
40, 45,00	68	0	5	7	61
10+45.00	0.4	0	•	40	70
40.05.00	84	0	9	12	72
10+85.00	28	0	2	2	25
11+00.00	28	0	2	3	25
SUBTOTALS					
WEST APPROACH	165	0	89	115	50
EAST APPROACH	180	0	89 16	22	50 158
EASTAPPROACH	100	U	10	22	108
PIETSCH RD & CROSS DRAIN INLET	163	0	0	0	163
B-62-0041 INLET	28	0	0	0	28
B-62-0041 OUTLET	42	0	12	16	26
TOTALS	578	0	117	153	425

(1) - NOT A BID ITEM - FOR INFORMATIONAL PURPOSES ONLY. (2) - FILL EXPANSION 30%

PROJECT NO: 5289-00-70

HWY: CTH S

COUNTY: VERNON

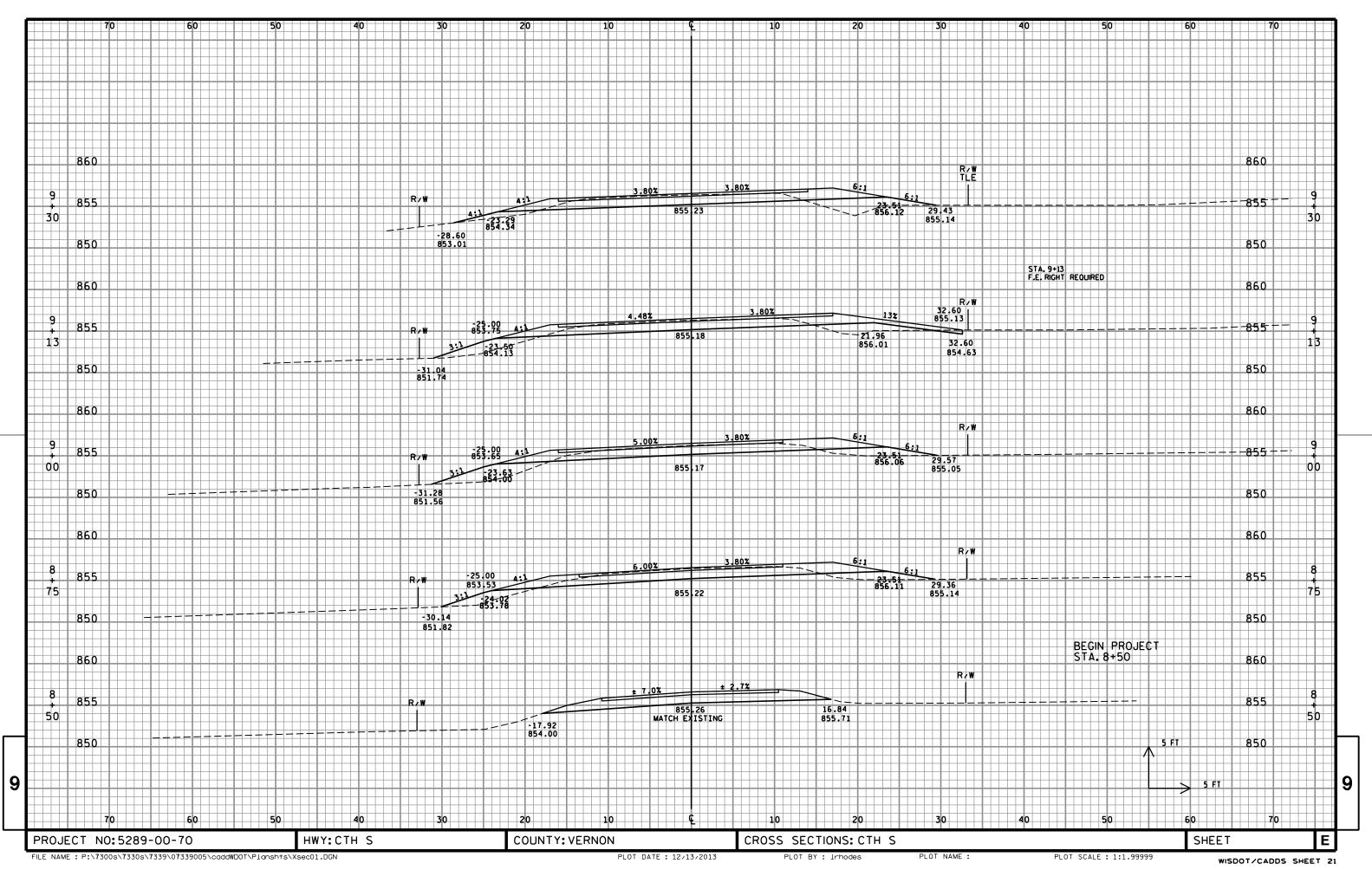
EARTHWORK

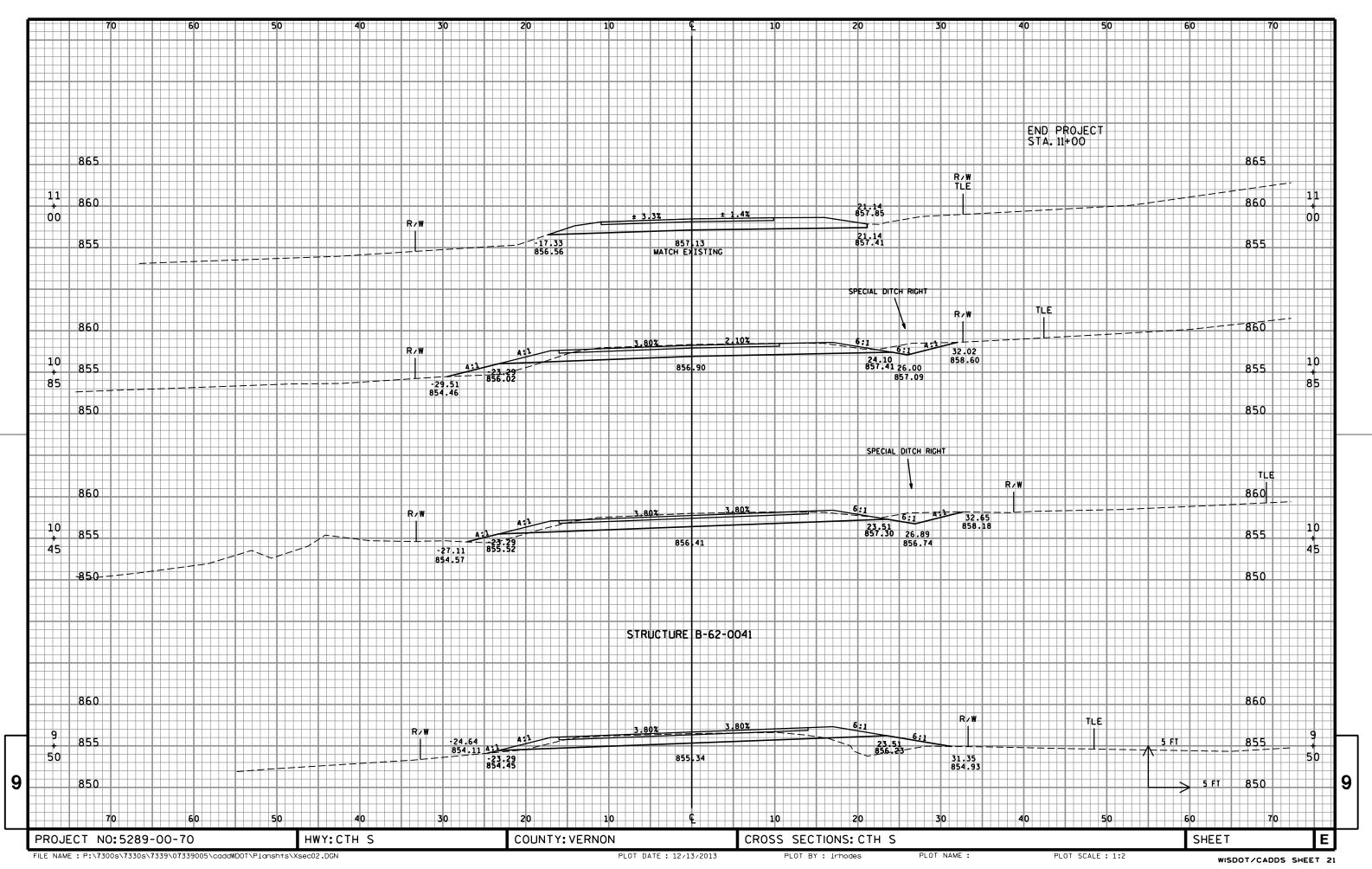
PLOT BY ; jaweno

SHEET PLOT SCALE : 1:20

FILE NAME : P:\7300s\7330s\7339\07339005\Estimate\07339005_MiscOty & Earthwork Borders.dgm

PLOT DATE : 12/12/2013







Wisconsin Department of Transportation

Dedicated people creating transportation solutions through innovation and exceptional service.

http://www.dot.wisconsin.gov