NWL FEB 2014 ORDER OF SHEETS PROJECT WITH: N/ Section No. 1 Section No. 2 Section No. 3 Section No. 3 <u>D</u> Section No. 5 Section No. 6 00 Section No. 7 Section No. 8 Structure Plans 8-00-Section No. 9 Cross Sections TOTAL SHEETS = 34 ESALS AW PLAN LOT LINE

STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION

PLAN OF PROPOSED IMPROVEMENT

LORETTA - NORTH COUNTY LINE

BRUNET RIVER BRIDGE B-57-0083

CTH GG SAWYER COUNTY

STATE PROJECT NUMBER

FOREST

DRAPER.

Draper

6

STATE

PROJECT LOCATION STRUCTURE B-57-0083

Typical Sections and Details

Plan and Profile (incl. erosion control)

Estimate of Quantities Miscellaneous Quantities

Standard Detail Drawings

Sian Plates

DESIGN DESIGNATION

A.A.D.T. 2014 = 235 A.A.D.T. 2034 = 315 D.H.V. 2034 = 32 = 50/50 = 4.0% DESIGN SPEED = 60 MPH = 36,500 BEGIN PROJECT

STA. 8+50 Y = 403,361.24X = 780,284.74 8448-00-71

{ Blaisdel

Loretta

R-4-W

LAYOUT

8448-00-71

CONVENTIONAL SYMBOLS

1////// CORPORATE LIMITS PROPERTY LINE PL + 58.1 LIMITED HIGHWAY EASEMENT EXISTING RIGHT OF WAY PROPOSED OR NEW R/W LINE SLOPE INTERCEPT REFERENCE LINE --1=--EXISTING CULVERT PROPOSED CULVERT (Box or Pipe) COMBUSTIBLE FLUIDS

PROFILE GRADE LINE ORIGINAL GROUND MARSH OR ROCK PROFILE (To be noted as such) SPECIAL DITCH GRADE ELEVATION

CULVERT (Profile View) UTILITIES OVERHEAD ELECTRIC FIBER OPTIC GAS SANITARY SEWER STORM SEWER TELEPHONE

UTILITY PEDESTAL

TELEPHONE POLE

POWER POLE

_ ROCK _ _ LABEL___

H

₫ Ø

R-5-W

BUTER RD

0

TOTAL NET LENGTH OF CENTERLINE = 0.057 MI.

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

END PROJECT

8448-00-71

STA. 11+50 Y = 403,660.79X = 780.301.26

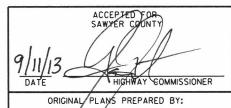
T-40-N

T-39-N

· D

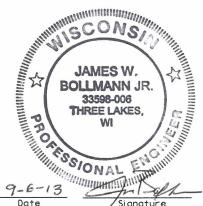
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FEDERAL PROJECT STATE PROJECT PROJECT CONTRACT 8448-00-71 WISC 2014055 1



TRANSPORTATION . MUNICIPA DEVELOPMENT • ENVIRONMENT 1835 N. Stevens St. Rhinelander, WI 54501

MSA PROFESSIONAL SERVICES



STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION

PREPARED BY Surveyor Designer

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

KNIGHT E/A INC.

Consultant

C.O. Examiner

APPROVED FOR THE DEPARTMENT

Eyan B McKane

FILE NAME: P:\11500s\11510s\11516\11516001\caddWDOT\Planshts\11516001TS.dgn

PLOT DATE: 9/4/2013

PLOT BY : cschroeder

R-3-W

PLOT NAME :

PLOT SCALE : 1:10000

WISDOT/CADDS SHEET 15

MARSH AREA

WOODED OR SHRUB AREA

STANDARD ABBREVIATIONS

AC	ACRE	F/L	FLOW LINE	SALV	SALVAGED
AGG	AGGREGATE	FT	FOOT	SAN	SANITARY SEWER
400	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
		IN DIA	INCH DIAMETER	SPECS	SPECIFICATIONS
ВМ	BENCH MARK	INL	INLET	S0	SOUARE
CB	CATCH BASIN	ID	INSIDE DIAMETER	SF OR SQ FT	SQUARE FEET
€ OR C/L	CENTER LINE	Ī	INTERSECTION ANGLE	SY	SQUARE YARD
C-C	CENTER TO CENTER	Ī.E.	INVERT ELEVATION	SSPRC	STORM SEWER
CONC	CONCRETE	IP	IRON PIPE OR PIN	331 110	PIPE REINFORCED CONCRETE
CO CTH	COUNTY	JCT	JUNCTION	STD	STANDARD
CY	COUNTY TRUNK HIGHWAY CUBIC YARD	L	LENGTH OF CURVE	SDD	STANDARD DETAIL DRAWINGS
CULV	CULVERT	LF	LINEAR FOOT	STH	STATE TRUNK HIGHWAYS
CDLV		LC	LONG CHORD OF CURVE	STA	STATION
CPRC	CULVERT PIPE	LCB	LONG CHORD BEARING	SS	
CFRC	CULVERT PIPE	LS	LUMP SUM	55 T	STORM SEWER TANGENT
C 4 C	REINFORCED CONCRETE	MH	MANHOLE	, TEL	TELEPHONE
C & G	CURB AND GUTTER	N	NORTH	TEMP	TEMPORARY
D	DEGREE OF CURVE	N Y		TLE	TEMPORARY LIMITED EASEMENT
DHV	DESIGN HOUR VOLUME	0.E.	NORTH GRID COORDINATE	T	TON
DIA OR Ø	DIAMETER DISTRICT	0.E. OL	OUTLET ELEVATION	TC	TOP OF CURB
DIST			OUT LOT	TN	TOWN
DWY	DRIVEWAY	OD OU	OUTSIDE DIAMETER	TRANS	TRANSITION
E	EAST COLD COORDINATE	OH	OVERHEAD LINES	T	
X	EAST GRID COORDINATE	PAVT	PAVEMENT	I TYP	TRUCKS (percent of)
EB	EASTBOUND ELECTRIC	PLE	PERMANENT LIMITED EASEMENT		TYPICAL
ELEC	ELECTRIC	PC	POINT OF CURVATURE	UNCL USH	UNCLASSIFIED
EL OR ELEV EMB	EMBANKMENT	PI	POINT OF INTERSECTION	VAR	UNITED STATES HIGHWAY
EMB EM	ENDWALL	PT PCC	POINT OF TANGENCY	VERT	VARIABLE
EW ESALS	EQUIVALENT SINGLE	LB	PORTLAND CEMENT CONCRETE	VERT	VERTICAL
ESALS	AXLE LOADS	PE PE	POUND PRIVATE ENTRANCE		VERTICAL CURVE
EVC	EXCAVATION	R OR RAD		VOL	VOLUME
EXC EBS	EXCAVATION EXCAVATION BELOW	R UR RAD	RADIUS	WM	WATER MAIN
EB3	SUBGRADE	R R	RAILROAD RANGE	₩V 	WATER VALVE
EXIST	EXISTING			W	WEST
EXP	EXPANSION	R OR R∕L	REFERENCE LINE	WB	WESTBOUND
F-F	FACE TO FACE	REOD RT	REOUIRED RIGHT	YD	YARD
	FERTILIZER	R/W	RIGHT-OF-WAY		
FERT		RD RD	ROAD		
FE	FIELD ENTRANCE	עט	NUAD		

DESIGN CONTACT

MSA PROFESSIONAL SERVICES, INC. ATTN.: CHAD SCHROEDER 1835 N. STEVENS STREET RHINELANDER, WI 54501-2163 PHONE: 715-362-3244 cschroeder@msa-ps.com

DNR LIAISON

DEPARTMENT OF NATURAL RESOURCES ATTN.: BILL GANTZ 810 WEST MAPLE STREET SPOONER, WI 54801 PHONE: 715-635-4071 william.gantz@wisconsin.gov

UTILITIES

THERE ARE NO KNOWN UTILITES AT THE PROJECT SITE



www.DiggersHotline.com

RUNOFF COEFFICIENT TABLE

		Α			В			С		D			
	SLOPE RANGE (PERCENT)			SL0PE	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 .30	.22 .38	.12	.20 .34	.27 .44	.15	.24 .37	.33 .50	.19	.28 .41	.38 .56	
MEDIAN STRIP- TURF	.19	.20 .26	.24 .30	.19 .25	.22	.26 .33	.20 .26	.23	.30	.20 .27	.25	.30	
SIDE SLOPE- TURF			.25 .32			.27			.28 .36			.30	
PAVEMENT:													
ASPHALT						.7095							
CONCRETE						.8095			_				
BRICK						.7080							
DRIVES, WALKS	VES, WALKS .7585												
ROOFS .7595													
GRAVEL ROADS.	SHOULDE	RS				.4060							

TOTAL PROJECT AREA = 0.90 ACRES

TOTAL AREA EXPECTED TO BE DISTURBED BY CONSTRUCTION ACTIVITIES = 0.37 ACRES

GENERAL NOTES

DISTURBED AREAS WITHIN THE RIGHT-OF-WAY, EXCEPT THE AREAS WITHIN THE FINISHED SHOULDER POINTS SHALL BE FERTILIZED, SEEDED AND PLACED WITH EROSION MAT 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 A BRONZE DEPT. OF INTERIOR GEODETIC SURVEY DISK, SET AT THE WEST END OF SOUTH BRIDGE ABUTMENT, ELEV 1418.34, NAVD 88 DATUM.

THE 4" ASPHALTIC SURFACE SHALL CONSIST OF A $1\frac{7}{4}$ " UPPER LAYER (12.0MM AGGREGATE) AND A $2\frac{1}{4}$ " LOWER LAYER (19.0MM AGGREGATE).

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

WHEN THE QUANTITY OF THE ITEM OF BASE LAYER IS MEASURED FOR PAYMENT BY THE TON, THE DEPTH OR THICKNESS OF THE LAYER SHOWN ON THE PLANS IS APPROXIMATE AND THE ACTUAL THICKNESS WILL DEPEND ON THE DISTRIBUTION OF THE MATERIAL AS DIRECTED BY THE ENGINEER.

SHRINKAGE IS ESTIMATED AT 30%

THE WISCONSIN DEPARTMENT OF TRANSPORTATION WILL FURNISH THE CONTRACTOR A MONUMENT WHICH SHALL BE SET IN THE STRUCTURE AS DESIGNATED BY THE ENGINEER.

STORAGE OF EQUIPMENT AND/OR MATERIALS OUTSIDE OF THE SHOWN SLOPE INTERCEPTS, IN AREAS OF ADJACENT WETLANDS, IS PROHIBITED.

PROJECT NO:8448-00-71 HWY: CTH GG FILE NAME: P:\11500s\11510s\11516\11516001\caddWDOT\Planshts\11516001GN.dgn

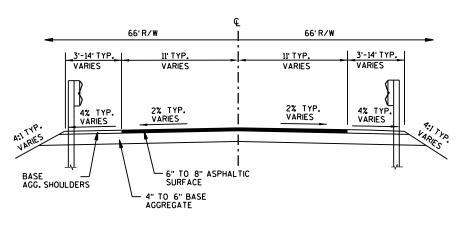
COUNTY: SAWYER

GENERAL NOTES, UTILITIES & STANDARD ABBREVIATIONS PLOT BY: cschroeder

PLOT NAME :

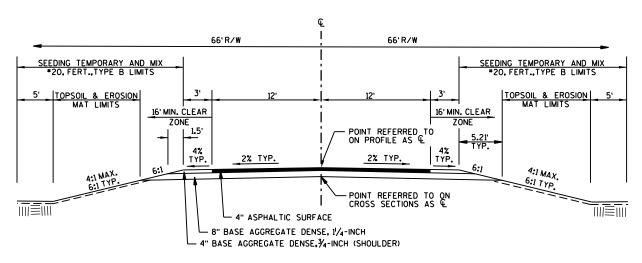
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TYPICAL EXISTING SECTION

STA. 8+50 TO STA. 11+50

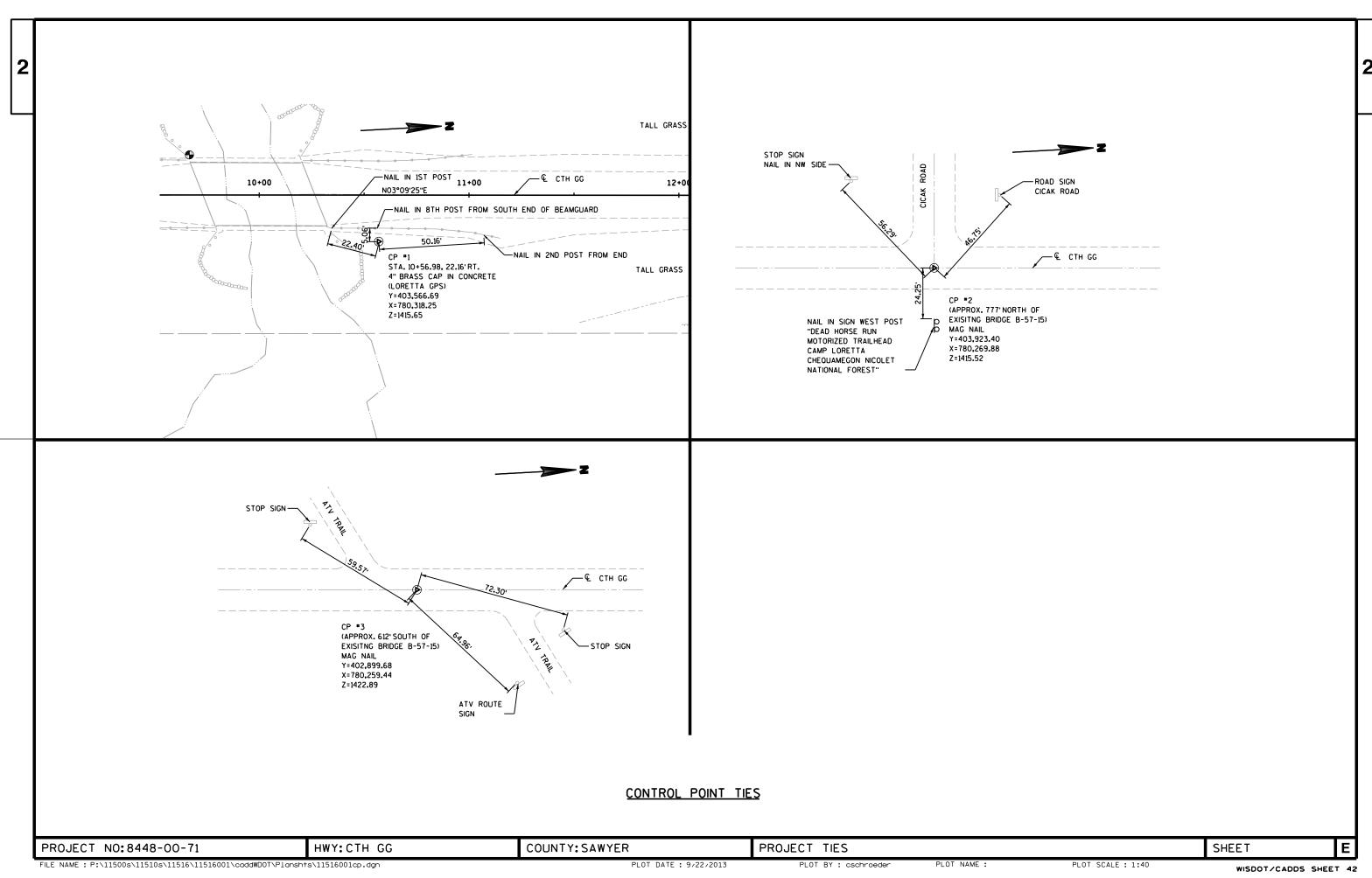


TYPICAL FINISHED SECTION

STA. 8+50 TO STA. 11+50

PROJECT NO:8448-00-71 HWY:CTH GG COUNTY:SAWYER TYPICAL SECTIONS SHEET **E**

PLOT BY: cschroeder



DATE 05	DEC13	E S 1	ГІМАТ	E O F Q U A N	TITIES
LI NE NUMBER	LTEM	ITEM DESCRIPTION	LINII T	TOTAL	8448-00-71 QUANTI TY
0010	201. 0105	CLEARING	UNI T STA	TOTAL 2. 000	2. 000
0020	201. 0205	GRUBBI NG	STA	2. 000	2. 000
0030	203. 0600. 5	REMOVING OLD STRUCTURE OVER WATERWAY	LS	1. 000	1. 000
0040	205. 0100	WITH MINIMAL DEBRIS (STATION) 01. 10+00 EXCAVATION COMMON **P**	CY	370.000	370. 000
0050	206. 1000	EXCAVATION COMMON F EXCAVATION FOR STRUCTURES BRIDGES	LS	1. 000	1. 000
		(STRUCTURE) 01. B-57-0083			
	010 0100	PAGE LL GERUSTURE			
0060 0070	210. 0100 213. 0100	BACKFILL STRUCTURE FINISHING ROADWAY (PROJECT) 01.	CY EACH	280. 000 1. 000	280. 000 1. 000
0070	213.0100	8448-00-71	LACII	1.000	1.000
0800	305. 0110	BASE AGGREGATE DENSE 3/4-INCH	TON	50.000	50.000
0090	305. 0120	BASE AGGREGATE DENSE 1 1/4-INCH	TON	410.000	410. 000
0100	455. 0605	TACK COAT	GAL	14. 000	14. 000
0110	465. 0105	ASPHALTI C SURFACE	TON	140.000	140. 000
0120	502. 0100	CONCRETE MASONRY BRIDGES	CY	144. 000	144. 000
0130	502. 3200	PROTECTI VE SURFACE TREATMENT	SY	300.000	300.000
0140	503. 0136	PRESTRESSED GIRDER TYPE I 36-INCH	LF	252. 000	252. 000
0150	505. 0405	BAR STEEL REINFORCEMENT HS BRIDGES	LB	5, 040. 000	5, 040. 000
0160	506. 0605	STRUCTURAL STEEL HS	LB	18, 930. 000	18, 930. 000
0170	506. 2605	BEARING PADS ELASTOMERIC NON-LAMINATED	EACH	8. 000	8. 000
0180	506. 4000	STEEL DI APHRAGMS (STRUCTURE) 01.	EACH	3. 000	3. 000
0465		B-57-0083			
0190	513. 4060	RAILING TUBULAR TYPE M (STRUCTURE) 01. B-57-0083	LS	1. 000	1. 000
0200	516. 0500	RUBBERIZED MEMBRANE WATERPROOFING	SY	14. 000	14.000
0210	550. 1100	PILING STEEL HP 10-INCH X 42 LB	LF	550. 000	550. 000
0220	606. 0300	RI PRAP HEAVY	CY	310.000	310.000
0230	612.0406	PIPE UNDERDRAIN WRAPPED 6-INCH	LF	150.000	150.000
0240	614. 0920	SALVAGED RAIL	LF	324.000	324.000
0250	619. 1000	MOBI LI ZATI ON	EACH	1. 000	1. 000
0260	625. 0100	TOPSOI L	SY	330.000	330. 000
0200	627. 0200	MULCHI NG	SY	550. 000	550. 000
0270	628. 1504	SILT FENCE	LF	650. 000	650. 000
0280	628. 1520	SILT FENCE MAINTENANCE	LF LF	650. 000	650. 000
0300	628. 1905	MOBILIZATIONS EROSION CONTROL	EACH	4. 000	4. 000
0046	/00 1010	MODILIZATIONS EMERGENOV EROSION CONTROL	FACU	2 222	2 222
0310	628. 1910	MOBILIZATIONS EMERGENCY EROSION CONTROL	EACH	2.000	2.000
0320	628. 2008	EROSION MAT URBAN CLASS I TYPE B	SY	350.000	350.000
0330	628. 6005	TURBI DI TY BARRI ERS	SY	215. 000	215. 000
0340 0350	628. 7570 629. 0210	ROCK BAGS FERTILIZER TYPE B	EACH CWT	30. 000 1. 000	30. 000 1. 000
0360	630. 0120	SEEDING MIXTURE NO. 20	LB	35. 000	35. 000
0370	630. 0200	SEEDING TEMPORARY	LB	20.000	20. 000
0380	634. 0614	POSTS WOOD 4X6-INCH X 14-FT	EACH	4. 000	4. 000
0390 0400	637. 2230 638. 2602	SIGNS TYPE II REFLECTIVE F REMOVING SIGNS TYPE II	SF EACH	12. 000 4. 000	12. 000 4. 000
		KEMIOVINO SIONS TITE II	LACIT	4.000	4.000
0410	638. 3000	REMOVING SMALL SIGN SUPPORTS	EACH	4.000	4. 000
0420	642. 5001	FIELD OFFICE TYPE B	EACH	1.000	1.000
0430	643. 0100	TRAFFIC CONTROL (PROJECT) 01. 8448-00-71	EACH	1.000	1.000
0440 0450	643. 0420 643. 0705	TRAFFIC CONTROL BARRICADES TYPE III TRAFFIC CONTROL WARNING LIGHTS TYPE A	DAY DAY	1, 600. 000 2, 560. 000	1, 600. 000 2, 560. 000
		TRAILIO CONTROL WARNING LIGHTS THE A			
0460	643. 0900	TRAFFIC CONTROL SIGNS	DAY	1, 440. 000	1, 440. 000
0470	645. 0120	GEOTEXTILE FABRIC TYPE HR	SY	515. 000	515. 000
0480	646. 0106	PAVEMENT MARKING EPOXY 4-INCH	LF	675. 000	675. 000
0490 0500	650. 4500 650. 5000	CONSTRUCTION STAKING SUBGRADE **P** CONSTRUCTION STAKING BASE **P**	LF LF	236. 000 236. 000	236. 000 236. 000
0300	330. 3000	CONSTRUCTION STARTING DAGE F	LI	230.000	230.000

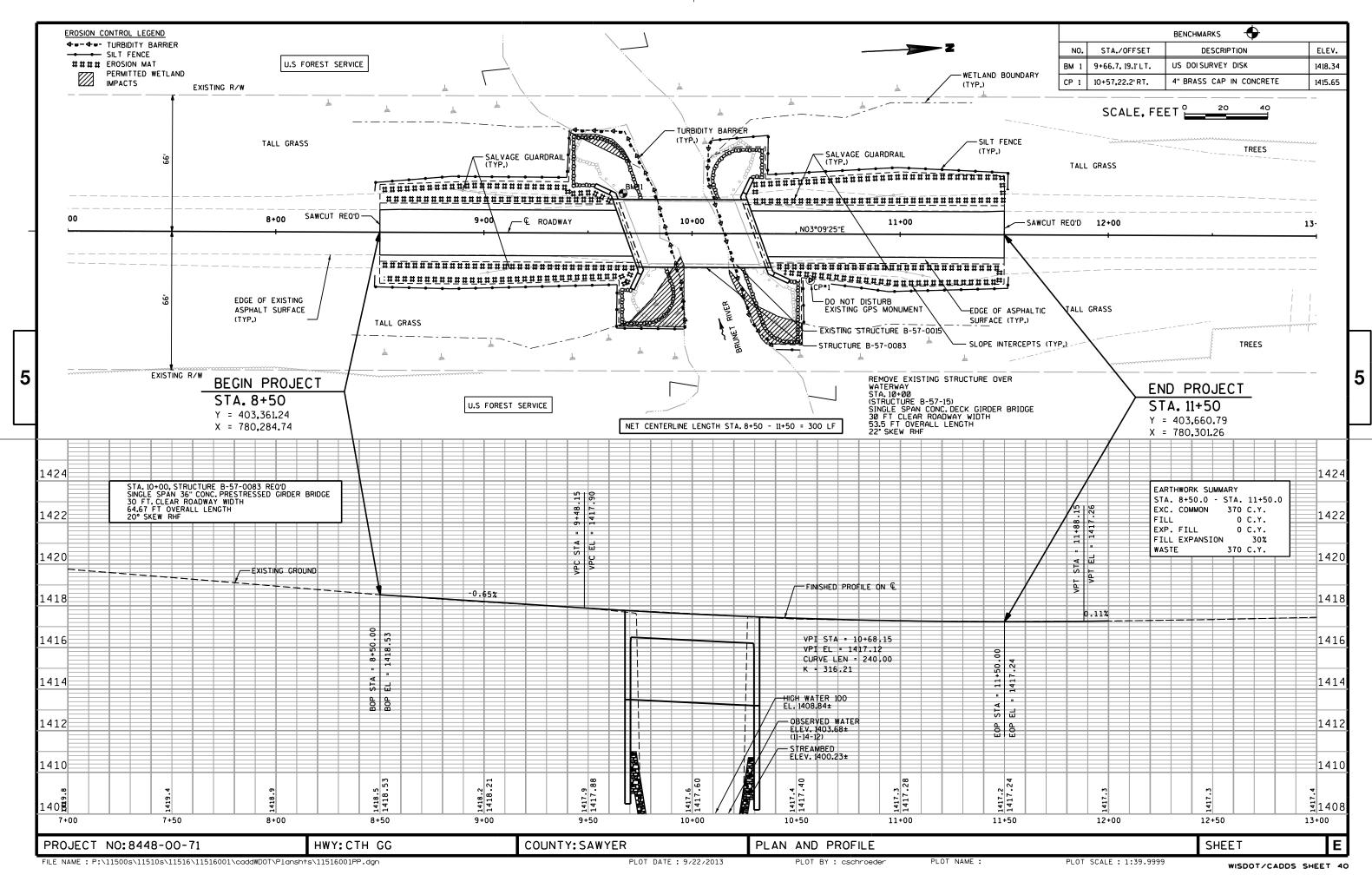
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DATE 05 LINE	DEC13	E S T	IMAT	E OF QUAN	T I T I E S 8448-00-71	
NUMBER	ITEM	I TEM DESCRIPTION	UNI T	TOTAL	QUANTI TY	
0510	650. 6500	CONSTRUCTION STAKING STRUCTURE LAYOUT (STRUCTURE) 01. B-57-0083	LS	1. 000	1. 000	
0520	650. 9910	CONSTRUCTION STAKING SUPPLEMENTAL CONTROL (PROJECT) 01. 8448-00-71	LS	1. 000	1. 000	
0530	650. 9920	CONSTRUCTION STAKING SLOPE STAKES **P**	LF	300.000	300.000	
0540	690. 0150	SAWING ASPHALT	LF	44.000	44.000	
0550	715. 0502	INCENTIVE STRENGTH CONCRETE STRUCTURES	DOL	864. 000	864. 000	
0560	ASP. 1TOA	ON-THE-JOB TRAINING APPRENTICE AT \$5.	HRS	1, 200. 000	1, 200. 000	
0570	ASP. 1TOG	ON-THE-JOB TRAINING GRADUATE AT \$5.00/HR	HRS	300.000	300.000	

		JBBING STA 2 2	628.1504 SILT FENCE 628.1520 SILT FENCE MAINTENANCE STATION - STATION LOCATION LF LF
	205.0100 EXCAVATION COMMON **p** EX. COMMON FILL EXACTOR C.Y. C.Y. (1) C. 8 * 50 - 11 * 50 370 0 TOTALS: 370 0 (1) - NOT A BID ITEM - FOR INFORMATIONAL PURPOSES ONLY. (2) - FILL EXPANSION = 30%	(P.FILL WASTE Y. (1,2) C.Y. (1) 0 370 0 370	628.1905 MOBILIZATION EROSION CONTROL 628.1910 MOBILIZATION EMERGENCY EROSION CONTROL LOCATION MOBILIZATION EMERGENCY MOB. PROJECT 4 2 TOTALS: 4 2
	305.0110 BASE AGGREGATE DENSE 3/4-INCH 305.0120 BASE AGGREGATE DENSE 1 1/4-INCH STATION - STATION TON 8.50 - 9.67.7 25 10.32.3 - 11.50 25 TOTALS: 50	1/4-INCH TON 205 205 205	628.2008 EROSION MAT URBAN CLASS I TYPE B STATION - STATION SY 8 * 50 - 9 * 67.7 130 10 * 32.3 - 11 * 50 175 UNDISTRIBUTED 45 TOTAL: 350
	455.0605 TACK COAT 465.0105 ASPHALTIC SURFACE STATION - STATION GAL 8 * 50 - 9 * 67.7 7 10 * 32.3 - 11 * 50 7 TOTALS: 14	SPHALT TON 70 70 140	628.7570 ROCK BAGS STATION LOCATION EACH UNDISTRIBUTED 30 TOTAL: 30 USE FOR SILT FENCE WEEPS IF NEEDED
6	525.0100 TOPSOIL 527.0200 MULCHING 529.0210 FERTILIZER TYPE B 530.0120 SEEDING MIXTURE NO. 20 630.0200 SEEDING TEMPORARY TOPSOIL MULCHING FERTILI STATION - STATION SY SY CWT 8 *50 - 9 *67.7 130 0.2 10 *32.3 - 11 *50 175 0.2 WASTE AREA 530 0.4 UNDISTRIBUTED 25 20 0.2	LB LB 7 4 9 5 15 7	628.6005 TURBIDITY BARRIERS LOCATION SY SOUTH ABUTMENT 115 NORTH ABUTMENT 100 TOTAL: 215
	614.0920 SALVAGED RAIL STATION - STATION LOCATION L 8 * 90	_F 	634.0614 POSTS WOOD 4x6-INCH x 14-FT 637.2230 SIGNS TYPE II REFLECTIVE F SIGNS WOOD SIGNS REFLECTIVE POSTS STATION LOCATION CODE SF EACH COMMENTS 9+67.7 RT W5-52R 3 1 OBJECT MARKER 9+67.7 LT W5-52L 3 1 OBJECT MARKER 10+32.3 RT W5-52L 3 1 OBJECT MARKER 10+32.3 LT W5-52R 3 1 OBJECT MARKER 10+32.3 LT W5-52R 3 1 OBJECT MARKER 10+32.3 LT W5-52R 3 1 OBJECT MARKER
		NOTE: ALL ITEMS LIST	TED ARE CATEGORY 0010 UNLESS OTHERWISE NOTED.
PROJECT NO:8448	HWY: CTH GG	COUNTY: SAWYER	MISCELLANEOUS QUANTITIES SHEET

3	638.2602 REMOVING SIGNS TYPE II 638.3000 REMOVING SMALL SIGN SUPPORTS REMOVING REMOVING SIGNS POSTS		650.9910 CONSTRUCTION STAKING SUPPLEMENTAL CONTROL STATION - STATION LS 8.50 - 11.50 1 TOTAL: 1	_
	642.5001 FIELD OFFICE TYPE B LOCATION EACH 8448-00-71 1 TOTAL: 1		650.6500 CONSTRUCTION STAKING STRUCTURE LAYOUT B-57-0083 LOCATION LS B-57-0083 1 TOTAL: 1 NOTE: CATEGORY 0020 ITEM	
643 643 643	.0100 TRAFFIC CONTROL 8448-00-71 .0420 TRAFFIC CONTROL BARRICADES TYPE III .0705 TRAFFIC CONTROL WARNING LIGHTS TYPE A .0900 TRAFFIC CONTROL SIGNS TRAFFIC CONTROL BARRICADES LIGHT STATION - STATION EACH DAYS DAYS 8+50 - 11+50 1 1600 2560 TOTALS: 1 1600 2560	5 DAYS 1440	690.0150 SAWING ASPHALT STATION L.F. 8 * 50 22 11 * 50 22 TOTAL: 44	
	646.0106 PAVEMENT MARKING EPOXY 4-INCH STATION - STATION LF COMMENTS 8+50 - 11+50 75 YELLOW CL SKIPS 8+50 - 11+50 600 WHITE EDGELINE TOTAL: 675	-	ASP-1TOA TRANS APPRENTICE ASP-1TOG TRANS GRADUATE APPRENTICE LOCATION EACH HOURS EACH HOURS PROJECT 1 1200 1 300 TOTALS: 1200 300	
	650.4500 CONSTRUCTION STAKING SUBGRADE **P** 650.5000 CONSTRUCTION STAKING BASE **P** 650.9920 CONSTRUCTION STAKING SLOPE STAKES **P** SUBGRADE BASE STAKES	· <u> </u>		
		NOTE: ALL ITEMS LISTED A	RE CATEGORY 0010 UNLESS OTHERWISE NOTED.	
PROJECT NO:8448-00-71	HWY: CTH GG	COUNTY: SAWYER	MISCELLANEOUS QUANTITIES	SHEET E

11516001 MQ.DGN 9/22/2013 10:34:46 AM cschroeder



Standard Detail Drawing List

08E09-06	SILT FENCE
08E11-02	TURBI DI TY BARRI ER
12A03-10	NAME PLATE (STRUCTURES)
15C02-04A	BARRICADES AND SIGNS FOR MAINLINE CLOSURES
15C02-04B	BARRICADES AND SIGNS FOR MAINLINE CLOSURES
15006-06	SIGNING & MARKING FOR TWO LANE BRIDGES

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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.

- \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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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.

TURBIDITY BARRIER MAY BE REMOVED AT THE ENGINEERS DISCRETION, WHEN PERMANENT EROSION CONTROL MEASURES HAVE BEEN ESTABLISHED.

- ① DRIVEN STEEL POSTS, PIPES, OR CHANNELS. LENGTH SHALL BE SUFFICIENT TO SECURELY SUPPORT BARRIER AT HIGH WATER ELEVATIONS.
- 2 SANDBAGS TO BE USED AS ADDITIONAL BALLAST WHEN ORDERED BY THE ENGINEER TO MEET ADVERSE FIELD CONDITIONS. SPACE AS APPROPRIATE FOR SITE CONDITIONS.
- (3) WHEN BARRIER HEIGHT, H. EXCEEDS 8 FT., POST SPACING MAY NEED TO BE DECREASED.
- 4 IN WATERWAYS SUBJECT TO FLUCTUATING WATER ELEVATIONS, PROVISIONS SHOULD BE MADE TO ALLOW THE WATER TO EQUALIZE ON EACH SIDE OF THE BARRIER. THIS MAY BE ACCOMPLISHED BY LEAVING A PORTION OF THE BARRIER OPEN ON THE UPSTREAM END.
- (5) ESTIMATED HIGH WATER ELEVATION DURING CONSTRUCTION PERIOD. MIMIMUM BARRIER HEIGHT SHALL BE 2'GREATER THAN EITHER THE 02 ELEVATION OR THE ESTIMATED HIGH WATER ELEVATION DURING CONSTRUCTION, WICHEVER IS GREATER.
- (6) FLOAT ALTERNATIVE WILL ONLY BE ALLOWED WITH WRITTEN APPROVAL OF THE ENGINEER, AND IS MEANT FOR LOCATIONS WHERE BED ROCK PREVENTS THE INSTALLATION OF POSTS.
- (7) ALLOW SUFFICIENT SLACK VERTICALLY AND HORIZONTALLY SO THAT SEDIMENT BUILD UP WILL NOT SEPARATE OR LOWER THE TURBIDITY BARRIER.
- (8) USE AS DIRECTED BY COAST GUARD OR DNR PERMIT WHEN WORKING IN NAVIGABLE WATERWAYS.





SECTION C-C

TURBIDITY BARRIER DETAIL SHOWING TYPICAL PLACEMENT AT STRUCTURES

TURBIDITY BARRIER

STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION

APPROVED

6/04/02 /S/ Beth Cannestra
CHIEF ROADWAY 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

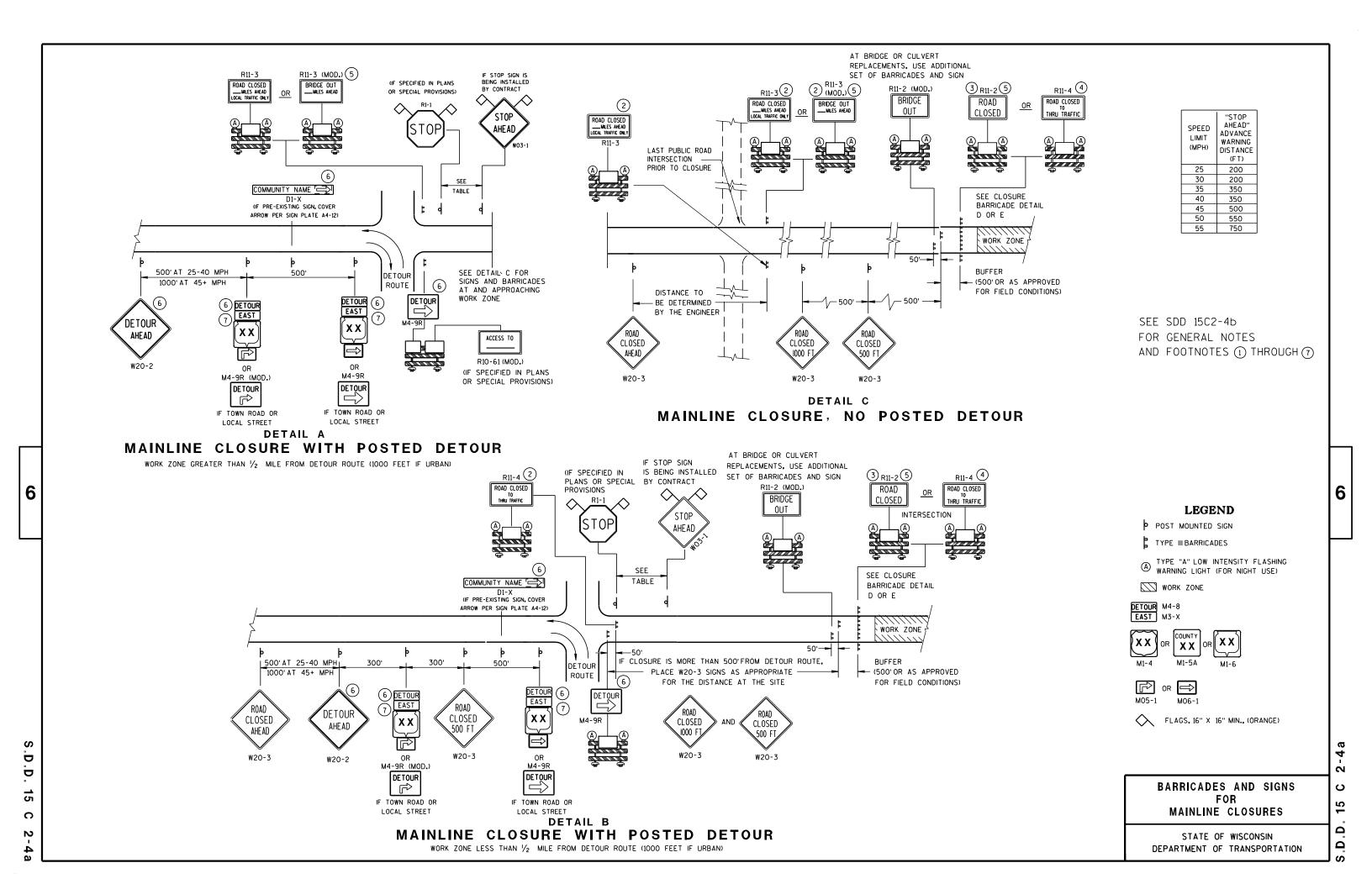
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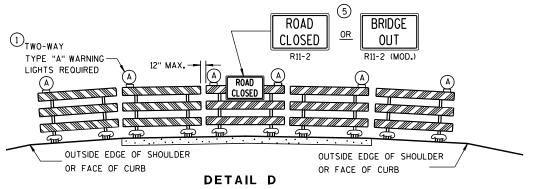
3/26/IO /S/ SCOT BECKET

CHIEF STRUCTURAL DEVELOPMENT ENGINEER

D.D. 12 A

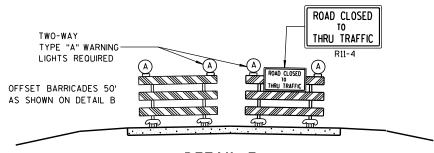
3-10





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.

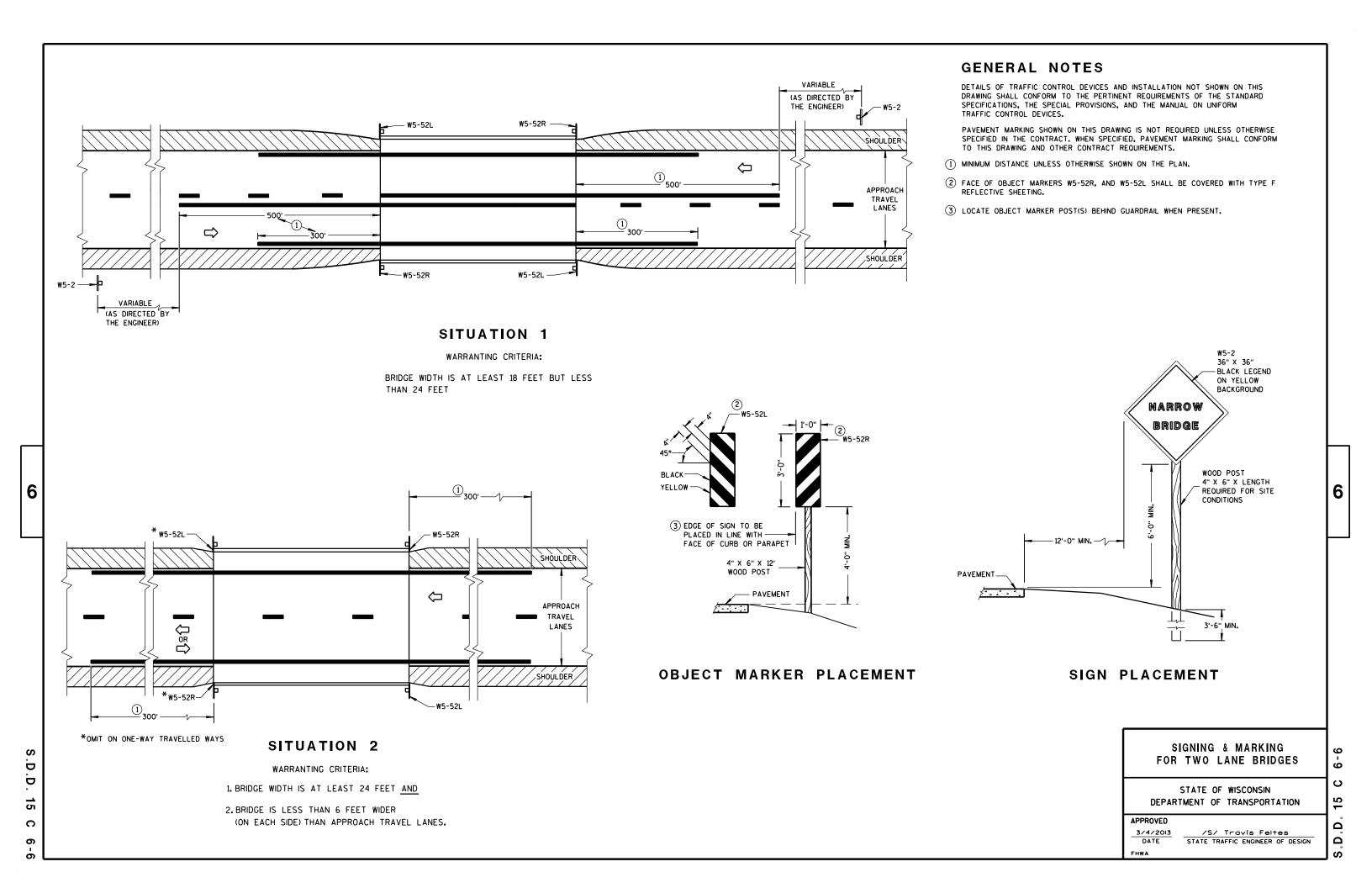
BARRICADES AND SIGNS FOR MAINLINE CLOSURES

STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION

APPROVED

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

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URBAN AREA

** Curb Flowline

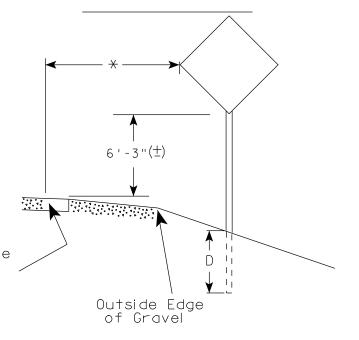
2' Min - 4' Max (See Note 6)

7'-3"(士)

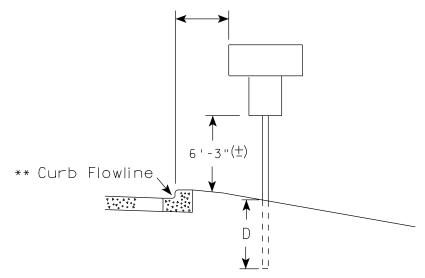
 \Box

White Edgeline Location

RURAL ARFA (See Note 2)



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



5′-3"(生) White Edgeline D 11 Location Outside Edge of Gravel

 $\star\star$ 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 aravel, whichever is greater unless directed by project engineer.

GENERAL NOTES

- 1. Signs wider than 4 feet or larger than 20 sq.ft. 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'' (+) or 6'-3'' (+) 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" (+). 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'

TYPICAL INSTALLATION OF PERMANENT TYPE II SIGNS ON SINGLE POSTS

WISCONSIN DEPT OF TRANSPORTATION

APPROVED

Matthew & Raud For State Traffic Engineer

DATE 5/24/2013 PLATE NO. <u>A4-3.17</u>

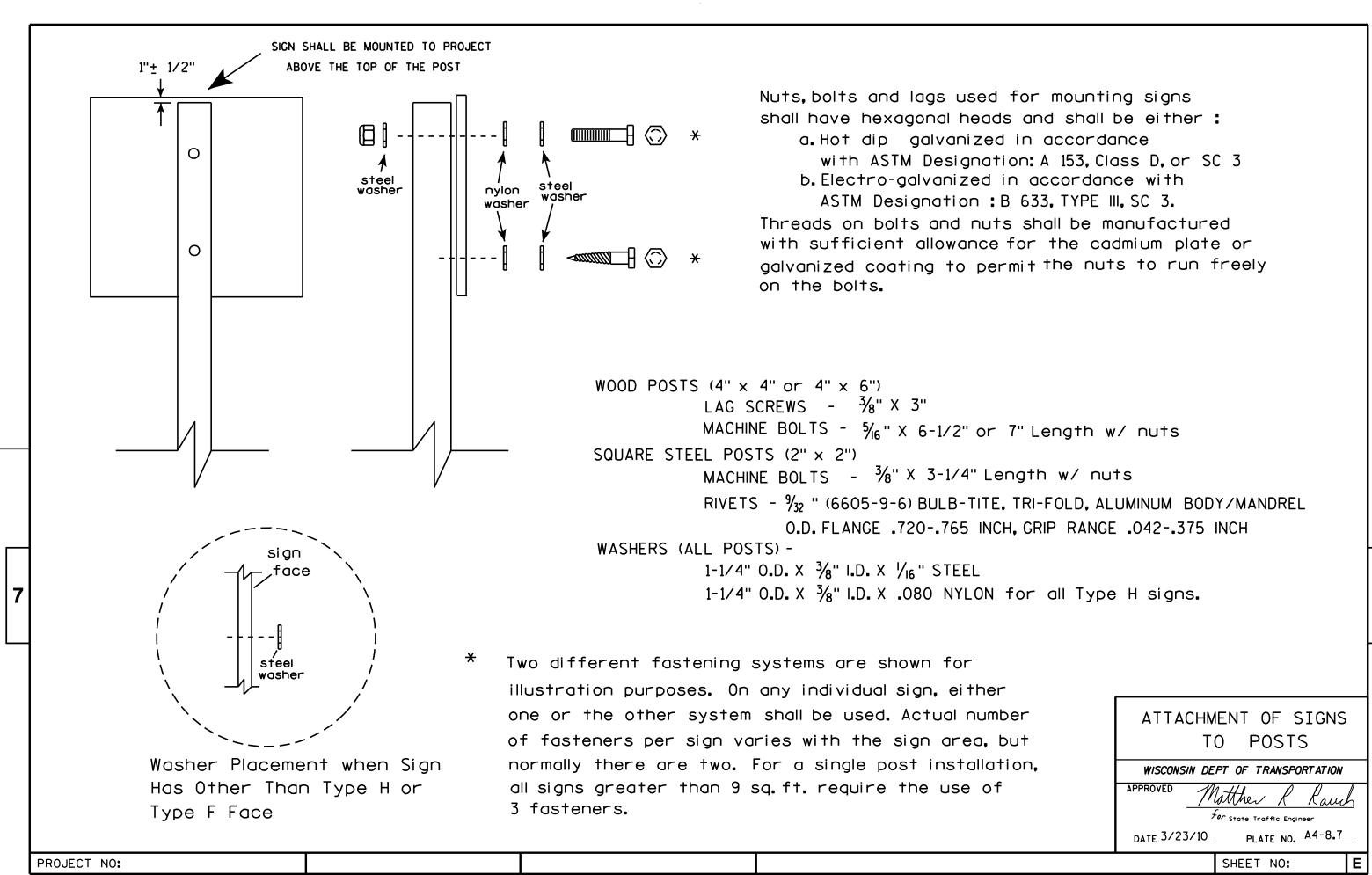
SHEET NO:

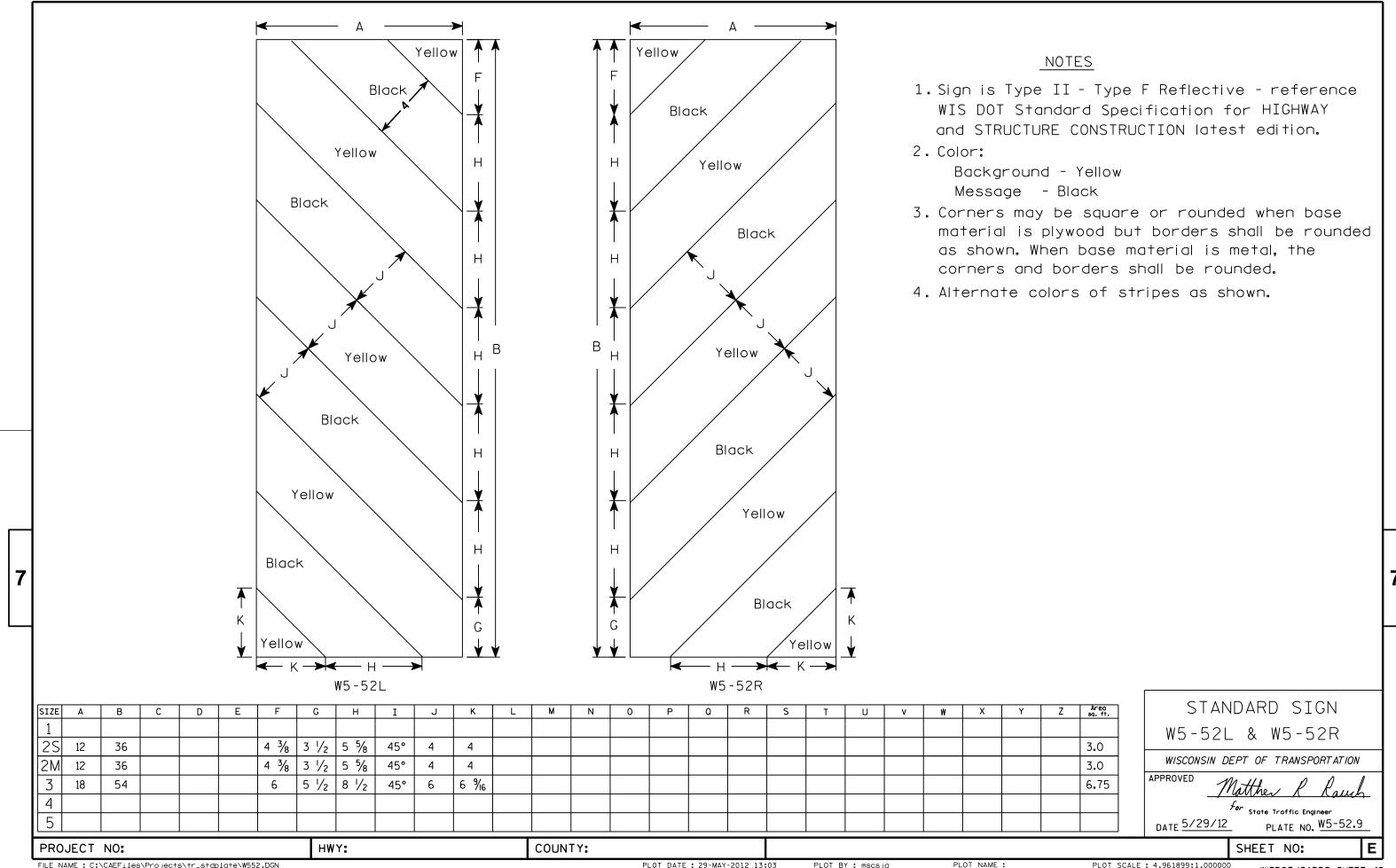
PROJECT NO: FILE NAME : C:\CAEFiles\Projects\tr_stdplate\A43.DGN COUNTY:

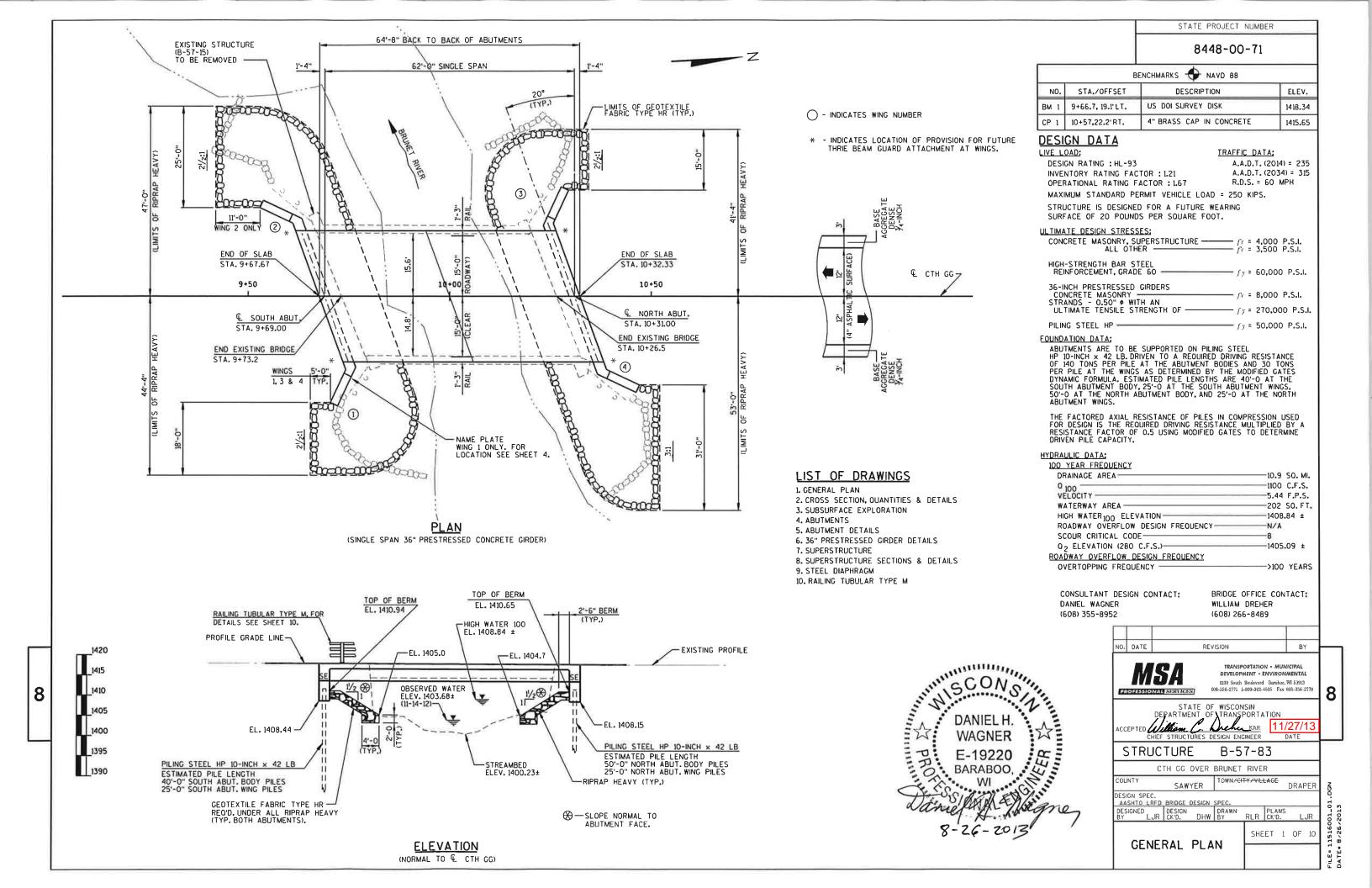
PLOT NAME :

PLOT SCALE: 101.222696:1.000000

WISDOT/CADDS SHEET 42







8448-00-71

GENERAL NOTES

DRAWINGS SHALL NOT BE SCALED.

BAR STEEL REINFORCEMENT SHALL BE EMBEDDED 2" CLEAR UNLESS SHOWN OR NOTED OTHERWISE. THE FIRST DIGIT OF A THREE DIGIT BAR MARK SIGNIFIES THE BAR SIZE.

THE SLOPE OF THE FILL IN FRONT OF THE ABUTMENTS SHALL BE COVERED WITH RIPRAP HEAVY AND GEOTEXTILE FABRIC TYPE HR TO THE LIMITS SHOWN ON SHEET 1 AND ON THE ABUTMENT SHEETS OR AS DIRECTED BY THE ENGINEER.

THE EXISTING GROUNDLINE SHALL BE THE UPPER LIMITS OF "EXCAVATION FOR STRUCTURES" FOR THE ABUTMENTS.

THE MINIMUM CONCRETE HAUNCH OVER EITHER EDGE OF THE PRESTRESSED GIRDERS SHALL BE $1\!/\!4$ " AND THE HAUNCH CONCRETE QUANTITY IS BASED ON AN AVERAGE HAUNCH DEPTH OF $2\sqrt[3]{4}$ ".

THIS STRUCTURE WILL REPLACE EXISTING BRIDGE, B-57-15, A 53.5 FOOT LONG SINGLE SPAN CONCRETE DECK GIRDER BRIDGE SET ON TIMBER BACKED ABUTMENTS WITH C.I.P. PILING.

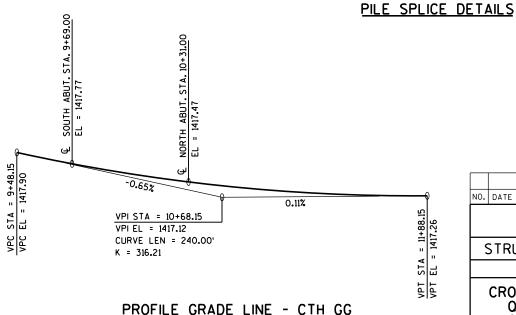
AT THE ABUTMENTS ALL EXCAVATED VOLUME NOT OCCUPIED BY THE NEW STRUCTURE SHALL BE BACKFILLED WITH BACKFILL STRUCTURE. THE BACKFILL STRUCTURE ESTIMATED QUANTITIES ASSUMED A $1\frac{1}{2}$: 1 EXCAVATION SLOPE AT THE ABUTMENTS.

DO NOT PLACE FILL ABOVE 3'-O" FROM THE BOTTOM OF THE ABUTMENT UNTIL THE SUPERSTRUCTURE IS IN PLACE.

ELEVATIONS SHOWN ON THIS PLAN ARE REFERENCED TO NAVD 88 BENCHMARK "US DOI GEODETIC SURVEY DISK" LOCATED IN A DRILL HOLE ON THE WEST END OF THE SOUTH BRIDGE ABUTMENT, ELEV. 1418.34.

PROTECTIVE SURFACE TREATMENT SHALL BE APPLIED TO THE TOP AND EDGES OF SLAB, TO THE OUTSIDE 1'-O" OF THE UNDERSIDE OF SLAB OVERHANG, AND TO THE EXPOSED SURFACES OF THE ABUTMENT WING WALLS.

DOUBLER PLATE AT FLANCE PLATE 3/6" x 5" x 5" WELD UNDER DOUBLER PLATE OUBLER PLATE WELD UNDER DOUBLER PLATE WELD DETAIL FLANCE SHOWN WEB SIMILAR PLATE IS PLACED FIRST



NO. DATE REVISION BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

STRUCTURE B-57-83

8

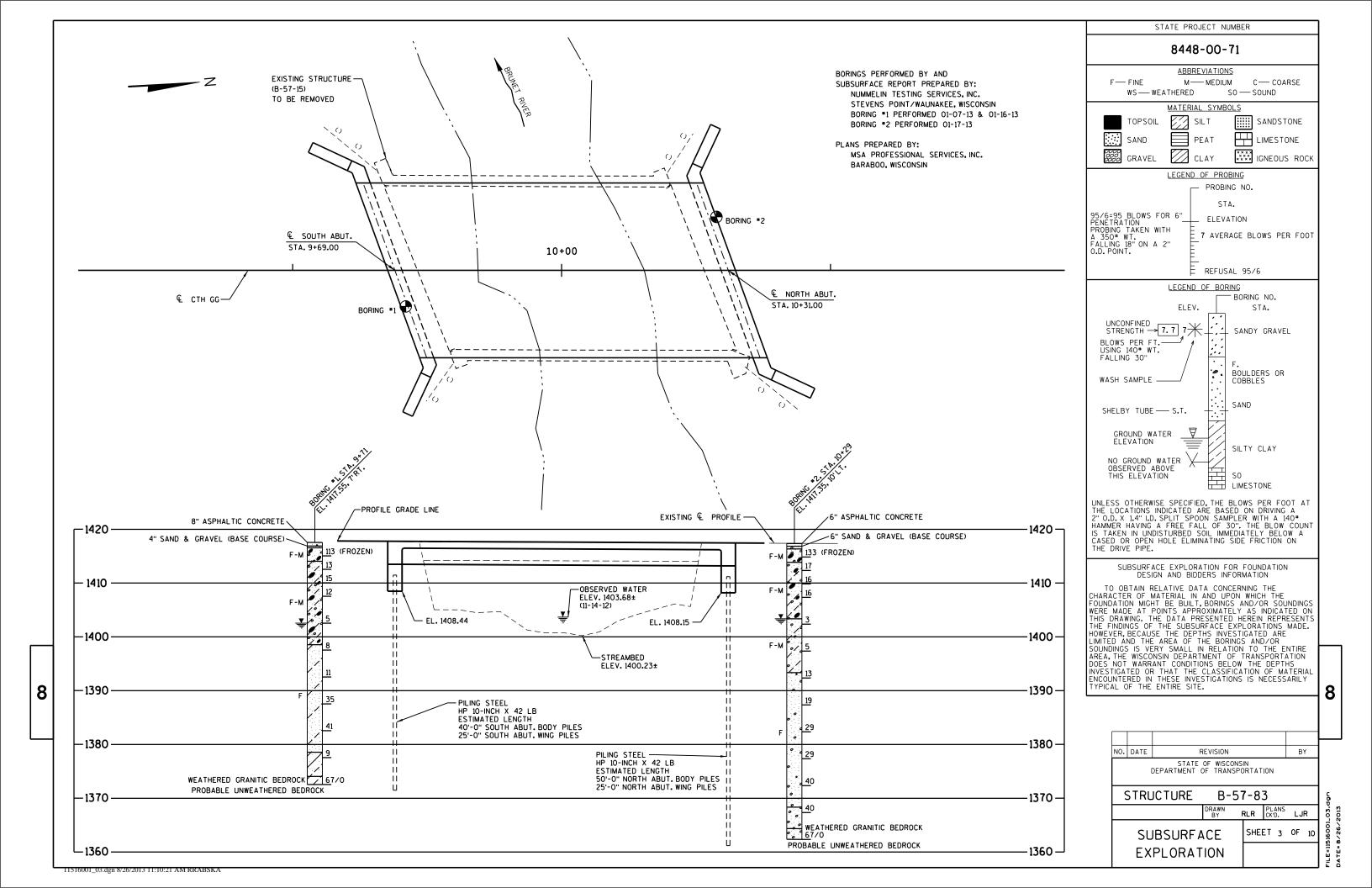
CROSS SECTION,
OUANTITIES
& DETAILS

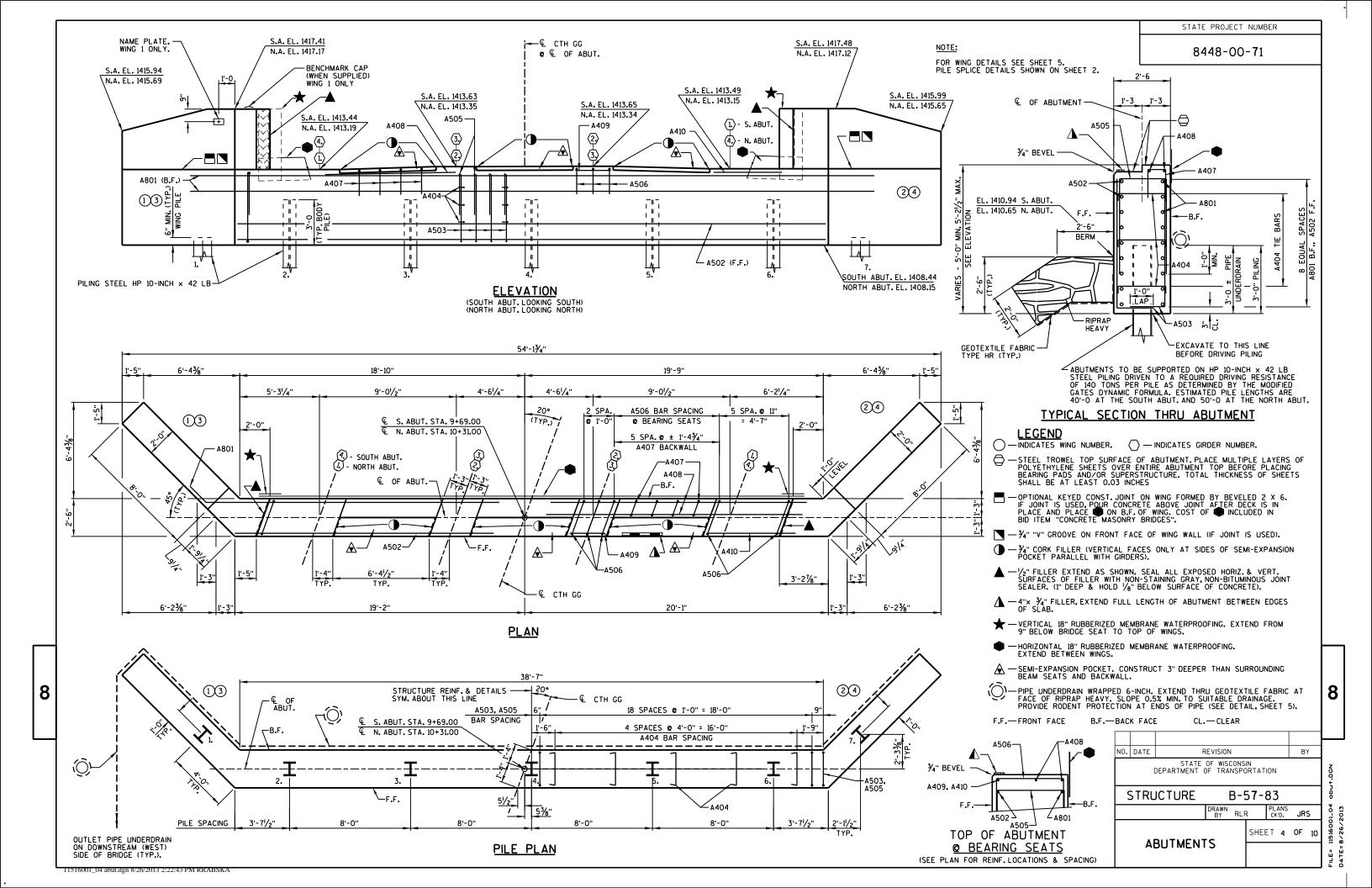
−€ CTH GG RAILING TUBULAR TYPE M FOR DETAILS SEE 15'-0 SHEET 10. POINT REFERRED TO ON PROFILE GRADE LINE 2.0% 2.0% 5" (TYP.) CONCRETE GIRDERS INTERMEDIATE ¾" CONTINUOUS 'V' — DRIP GROOVE. EXTEND TO THE FILLETS ADJACENT TO THE ABUTMENTS (TYP.) STEEL DIAPHRAGM SEE SHEET 9. 3 SPACES @ 8'-9" = 26'-3" 4 - 36 PRESTRESSED CONCRETE GIRDERS 3'-11/2 AT ABUTMENTS IN SPAN CROSS SECTION THRU BRIDGE

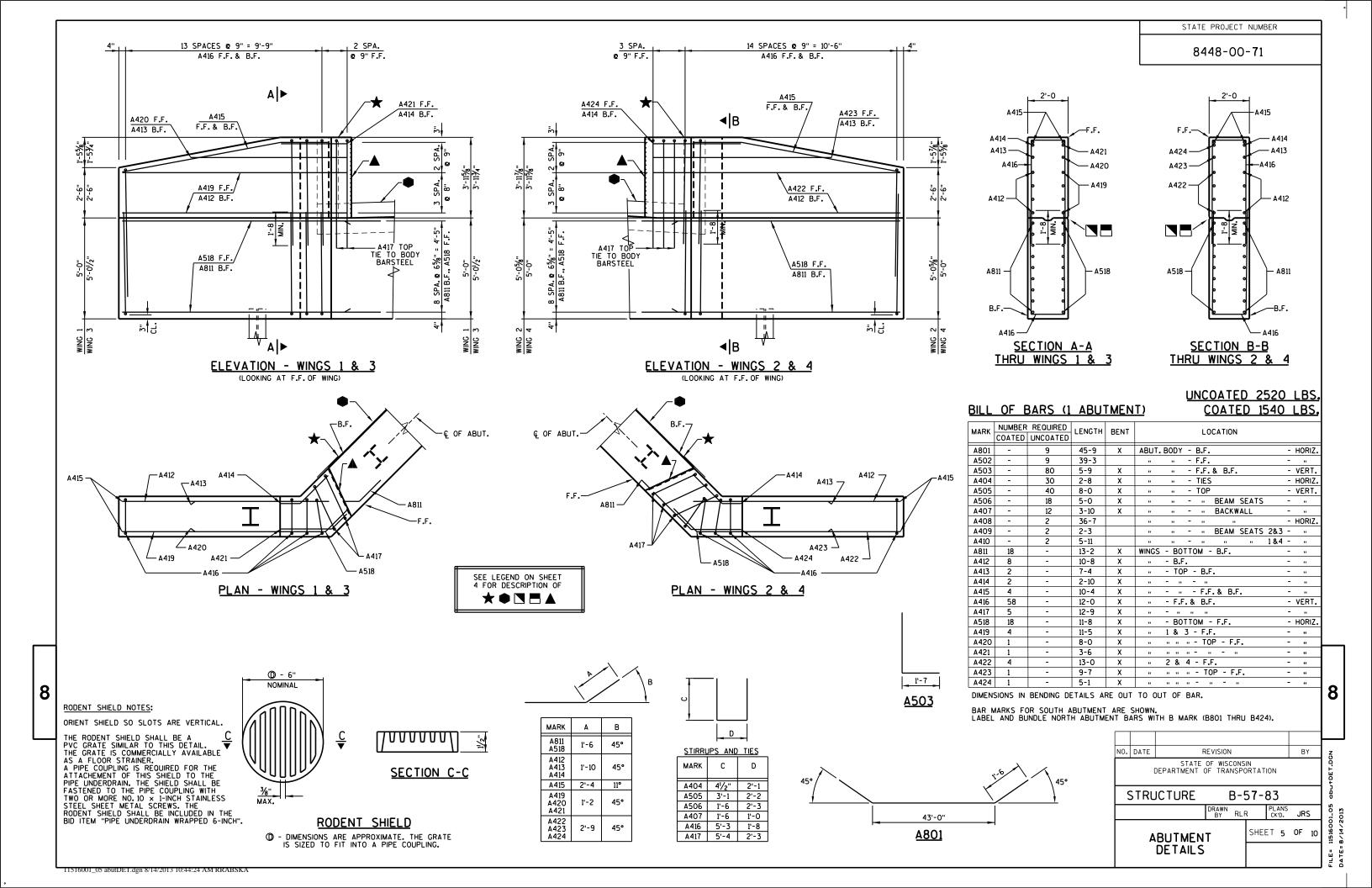
(LOOKING NORTH)

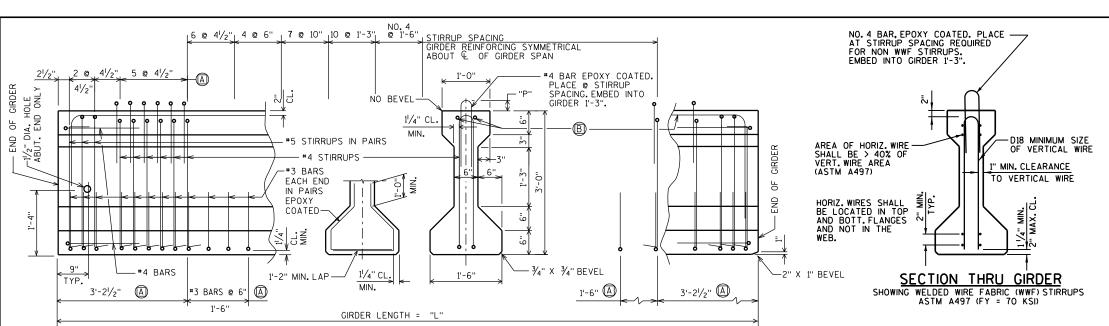
TOTAL ESTIMATED QUANTITIES

	ITEM NUMBER	BID ITEM	UNIT	SOUTH ABUT.	NORTH ABUT.	SUPER	TOTAL
	203.0600.S.01	REMOVING OLD STRUCTURE OVER WATERWAY WITH MINIMAL DEBRIS STATION 10+00	LS	-	-	-	1
1 [206.1000.01	EXCAVATION FOR STRUCTURES BRIDGES (B-57-0083)	LS	-	-	-	1
	210.0100	BACKFILL STRUCTURE	CY	140	140	-	280
	502.0100	CONCRETE MASONRY BRIDGES	CY	32	32	80	144
	502.3200	PROTECTIVE SURFACE TREATMENT	SY	20	20	260	300
	503.0136	PRESTRESSED GIRDER TYPE I 36-INCH	LF	-	-	252	252
] [505.0405	BAR STEEL REINFORCEMENT HS BRIDGES	LB	2520	2520	-	5040
	505.0605	BAR STEEL REINFORCEMENT HS COATED BRIDGES	LB	1540	1540	15850	18930
	506.2605	BEARING PADS ELASTOMERIC NON-LAMINATED	EACH	-	-	8	8
	506.4000.01	STEEL DIAPHRAGMS B-57-0083	EACH	-	-	3	3
	513.4060.01	RAILING TUBULAR TYPE M (B-57-0083)	LS	-	-	-	1
	516.0500	RUBBERIZED MEMBRANE WATERPROOFING	SY	7	7	-	14
	550.1100	PILING STEEL HP (10-INCH x 42 LB)	LF	250	300	-	550
	606.0300	RIPRAP HEAVY	CY	160	150	-	310
1 [612.0406	PIPE UNDERDRAIN WRAPPED 6-INCH	LF	75	75	-	150
	645.0120	GEOTEXTILE FABRIC TYPE HR	SY	265	250	-	515
		NON-BID ITEMS					
	<u> </u>	PREFORMED FILLER	SIZE	-	-	-	1/2", 3/4"
		CORK FILLER	SIZE	-	-	-	3/4"









<u>NOTES</u>

ALL GIRDERS SHALL BE CAST FULL LENGTH AS SHOWN.

PRESTRESSING STRANDS SHALL BE 0.5" ¢ - 7 WIRE LOW RELAXATION STRANDS WITH AN ULTIMATE STRENGTH OF 270,000 PSI AND SHALL BE FLUSH WITH THE ENDS OF THE GIRDER. COAT ENDS OF STANDS WITH NON-BITUMINOUS JOINT SEALER.

STATE PROJECT NUMBER

8448-00-71

THE GIRDERS SHALL BE PROVIDED WITH A SUITABLE LIFTING DEVICE FOR HANDLING AND ERECTING THE GIRDERS.

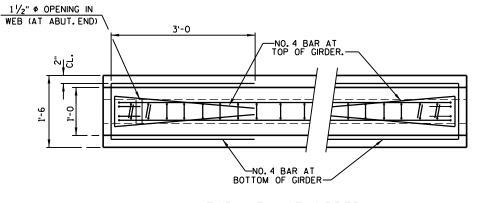
TOP OF GIRDERS TO BE ROUGH FLOATED AND BROOMED TRANSVERSELY, EXCEPT THE OUTSIDE 2" OF GIRDER, WHICH SHALL RECEIVE A SMOOTH FINISH. AN APPROVED CONCRETE SEALER SHALL BE APPLIED TO ALL SMOOTH SURFACES INCLUDING THE OUTSIDE 2" OF THE TOP FLANGE.

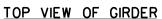
SPACING SHOWN FOR #4 STIRRUPS IS FOR GRADE 60 REINFORCEMENT.

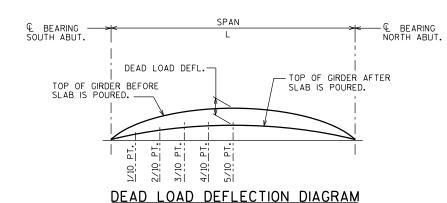
AN ALTERNATE EQUIVALENT OF WELDED WIRE FABRIC (WWF) ASTM A497 MAY BE SUBSTITUTED FOR THE STIRRUP REINFORCEMENT SHOWN, UPON APPROVAL OF THE STRUCTURES DEVELOPMENT SECTION.

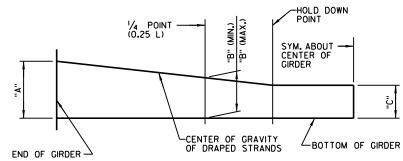
SIDE VIEW & TYP. SECTION IN SPAN

- (A) DETAIL TYP. AT EACH END
- (B) 2-NO. 4 BARS, BEND DOWN 16 BAR DIA. AT ENDS

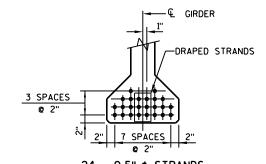








DRAPED STRAND PROFILE



24 - 0.5" ¢ STRANDS

DRAPED PATTERN

TYP. STRAND PATTERN

* MINIMUM CYLINDER STRENGTH OF CONCRETE @ TIME OF TRANSFER OF PRESTRESS FORCE.

												GIRE	DER D	ATA											
		GIRDER	DEAD LOAD DEFL. (IN.)									CONC. STRGTH.	"P" 1ST ¹ / ₃	"P"	"P"	חוא הב		DRAPE	D PA				UNDRAPED PATTERN		
SPAN		LENGTH "L"	1/10	² / ₁₀	3/10	1/10	5/10	% ₁₀	₹ ₁₀	₁₀	%o	f'c (p.s.i.)	OF GIRDER	MID 1/3 OF GIRDER	END 1/3 OF GIRDER			f'ci (P.S.I.) X	"A"	"B"	N.) "B" MAX.	"C"	TOTAL NO.OF STRANDS	f'ci (P.S.I.) X	
1	1-4	63'-0"	0.31	0.59	0.81	0.95	1.0	0.95	0.81	0.59	0.31	8000	7"	7''	7"	0.5	24	6800	32.0	11.0	14.0	4.0	-	-	

NO.	DATE	REVISION	BY
	1	STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION	

STRUCTURE B-57-83

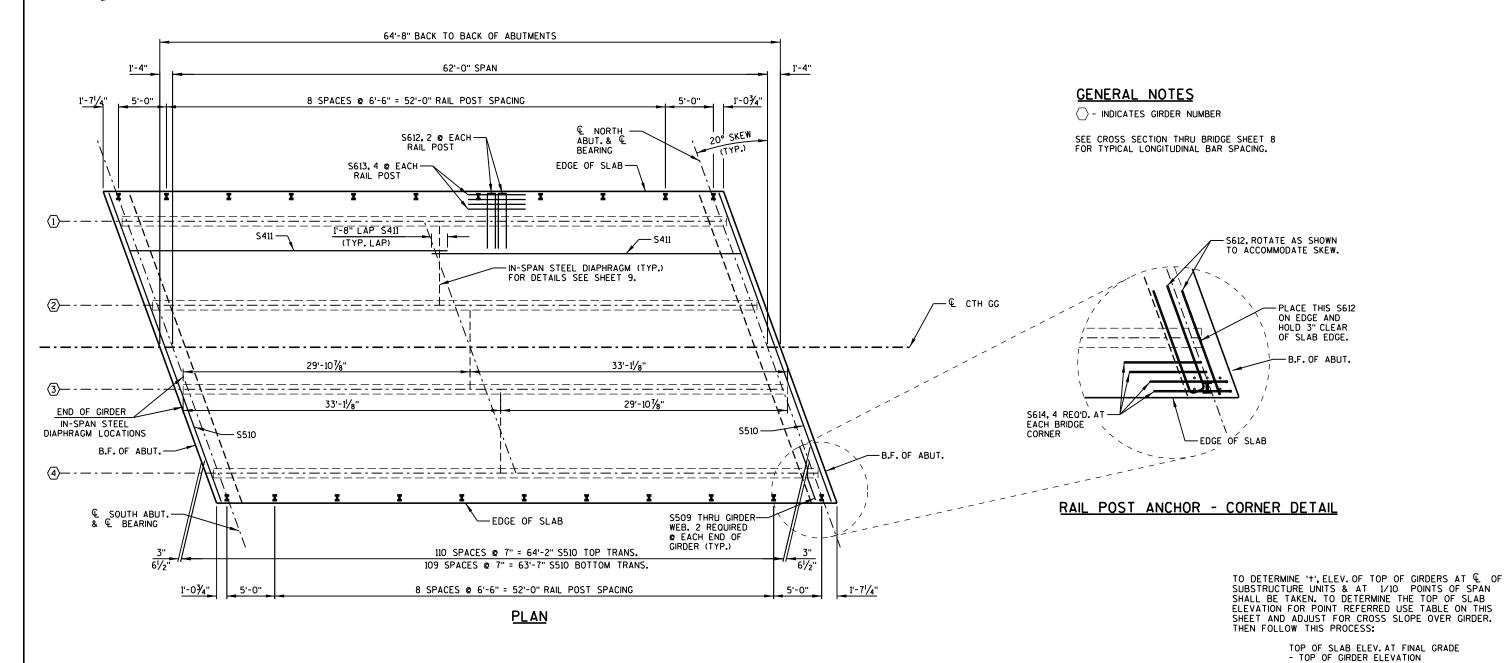
| DRAWN CAR | PLANS CK'D. JRS

36" PRESTRESSED GIRDER DETAILS

FILE= 11516001_06.DGN DATE= \$DATE\$

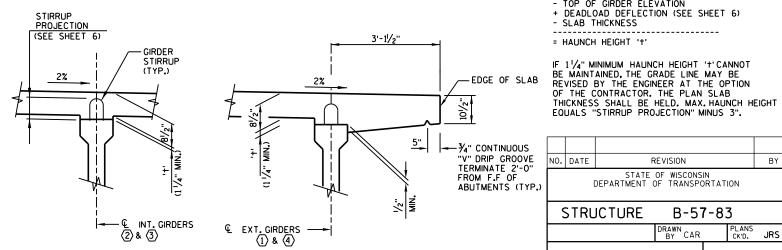
SHEET 6 OF 10

8448-00-71



TOP OF SLAB ELEVATIONS

ı			EAST	C/L	C/L	C/L	C/L	C/L	WEST
ı		SPAN	SLAB	GIRDER	GIRDER	CTH GG	GIRDER	GIRDER	SLAB
ı	LOCATION	POINT	EDGE	4	3		2	1	EDGE
ı	S. ABUT.	1	1417.41	1417.48	1417.67	1417.77	1417.69	1417.53	1417.48
ı		1.1	1417.38	1417.44	1417.64	1417.73	1417.65	1417.50	1417.44
ı		1.2	1417.34	1417.41	1417.60	1417.70	1417.62	1417.46	1417.41
J		1.3	1417.31	1417.38	1417.57	1417.67	1417.59	1417.43	1417.37
l		1.4	1417.28	1417.35	1417.54	1417.63	1417.55	1417.40	1417.34
l		1.5	1417.25	1417.32	1417.51	1417.60	1417.52	1417.36	1417.31
		1.6	1417.22	1417.29	1417.48	1417.57	1417.49	1417.33	1417.28
		1.7	1417.20	1417.26	1417.45	1417.55	1417.47	1417.31	1417.25
		1.8	1417.17	1417.24	1417.43	1417.52	1417.44	1417.28	1417.22
		1.9	1417.15	1417.21	1417.40	1417.49	1417.41	1417.25	1417.19
l	N. ABUT	2	1417.12	1417.19	1417.38	1417.47	1417.39	1417.23	1417.17



STRUCTURE SLAB HAUNCH DETAIL

DRAWN BY CAR SHEET 7 OF 10

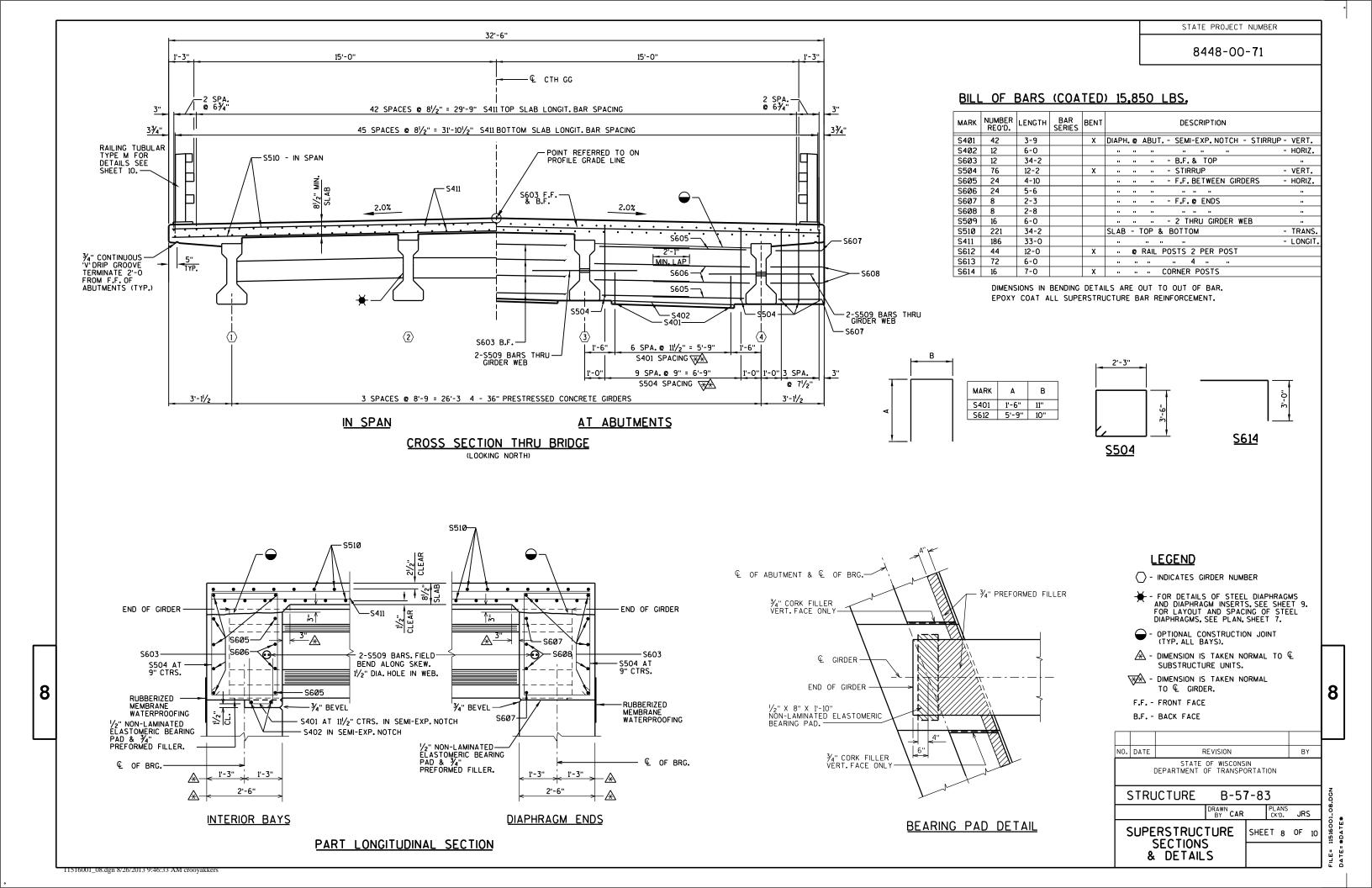
REVISION

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

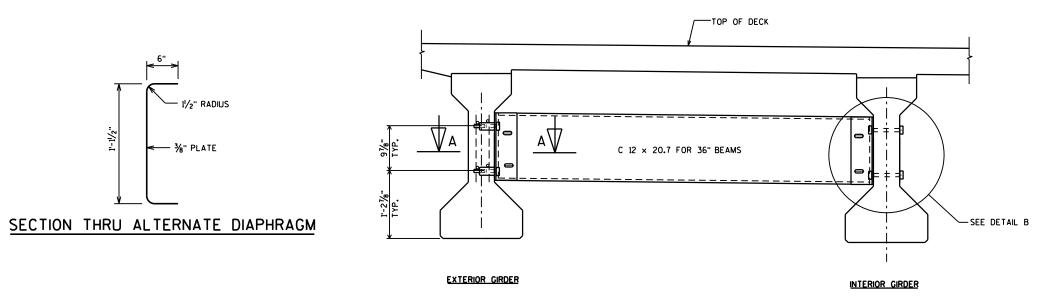
B-57-83

SUPERSTRUCTURE

PLANS CK'D. JRS



8448-00-71



TRANSVERSE SECTION AT DIAPHRAGM

<u>NOTES</u>

ALL DIAPHRAGM MATERIAL NOT EMBEDDED IN THE CONCRETE GIRDER SHALL BE PAID FOR AT THE UNIT PRICE BID FOR "STEEL DIAPHRAGMS B-57-83", EACH.

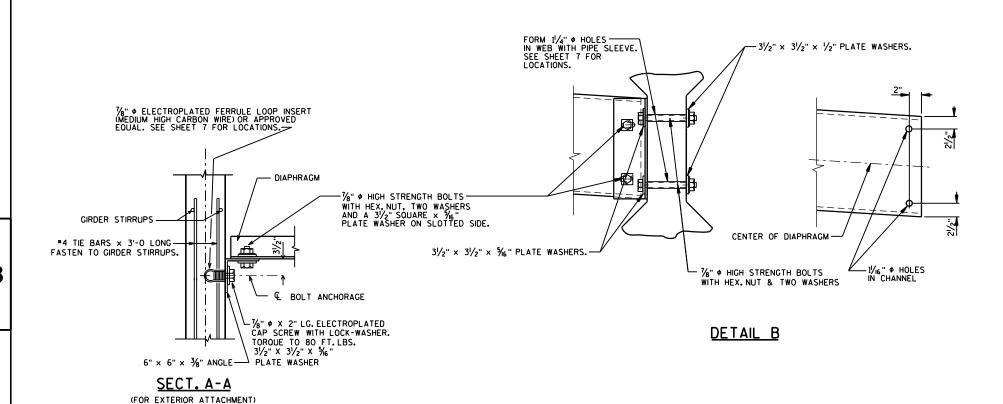
EACH DIAPHRAGM BETWEEN GIRDERS SHALL CONSTITUTE ONE UNIT.

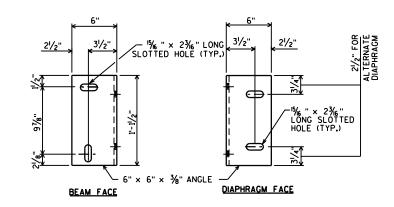
ALL DIAPHRAGM STRUCTURAL STEEL SHALL BE ASTM A709 GRADE 36.

ALL BOLTS, NUTS AND WASHERS SHALL BE ASTM A325 TYPE 1.

ALL DIAPHRAGM STRUCTURAL STEEL SHOWN SHALL BE HOT-DIPPED GALVANIZED. ALL BOLTS, NUTS AND WASHERS SHALL BE HOT-DIPPED GALVANIZED IN ACCORDANCE WITH ASTM AIS3 CLASS C. GALVANIZED NUTS SHALL BE TAPPED OVERSIZE IN ACCORDANCE WITH THE REQUIREMENTS OF ASTM A563 AND SHALL MEET THE REQUIREMENTS OF SUPPLEMENTARY REQUIREMENT S1 OF ASTM A563, LUBRICANT AND TEST FOR COATED NUTS.

SEE SHEET 7 FOR LOCATION OF DIAPHRAGMS.



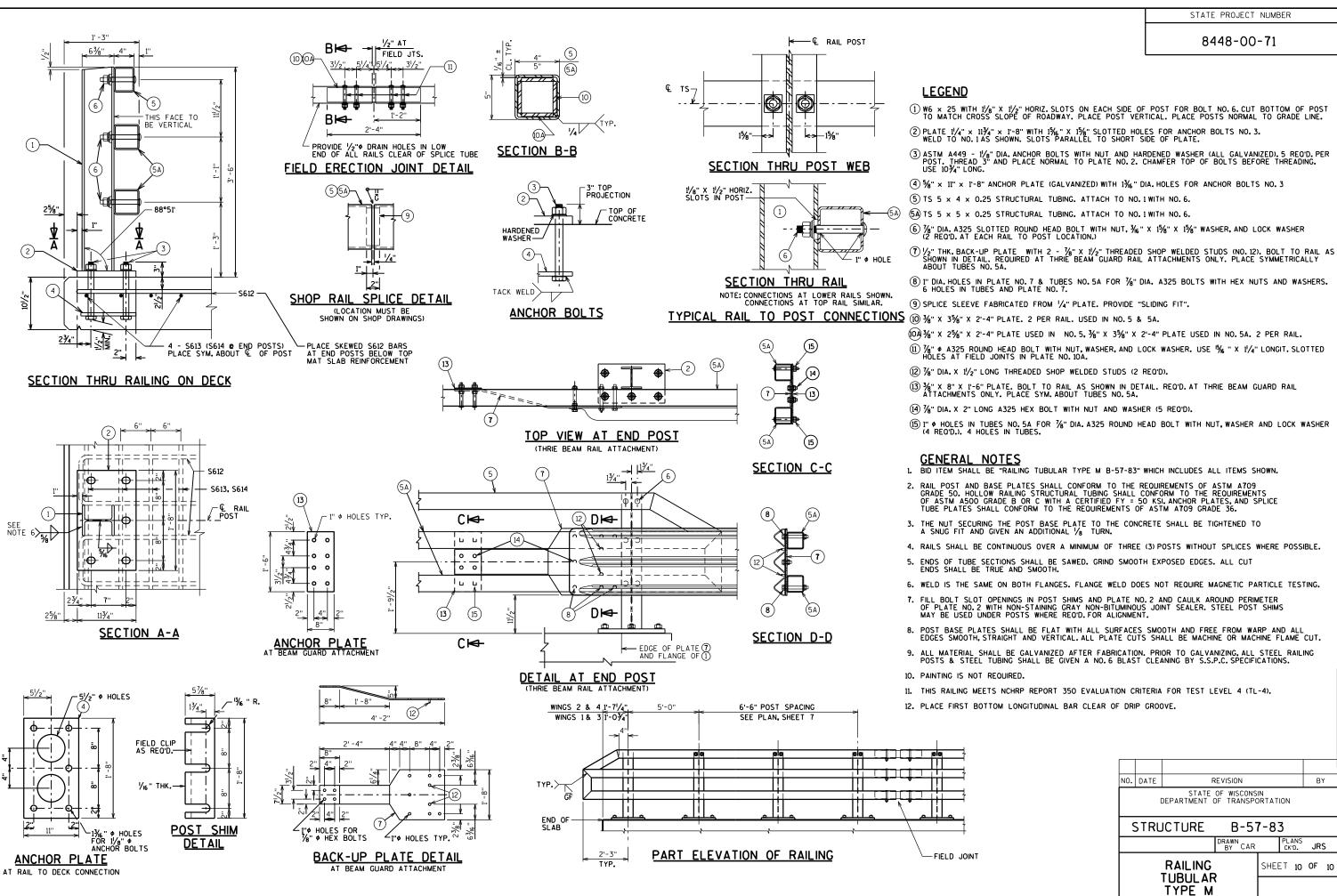


DIAPHRAGM SUPPORT

)						
	BY	NO. DATE REVISION							
			OF WISCONS OF TRANSPO	STATE DEPARTMENT ([
DG.		7-83	B-5	JCTURE	STRL				
1.09	JRS	PLANS CK'D.	DRAWN BY CAR						
11516001_09.DGN	OF 10	SHEET 9		STEEL DIAPHRAGM					
. E= 1			М						

8

FILE= 11516001_09.DGN DATE=7/26/2013



11516001_10.dgn 8/15/2013 8:36:15 AM crooyakkers

DATE= *DATE*

FILE= 115

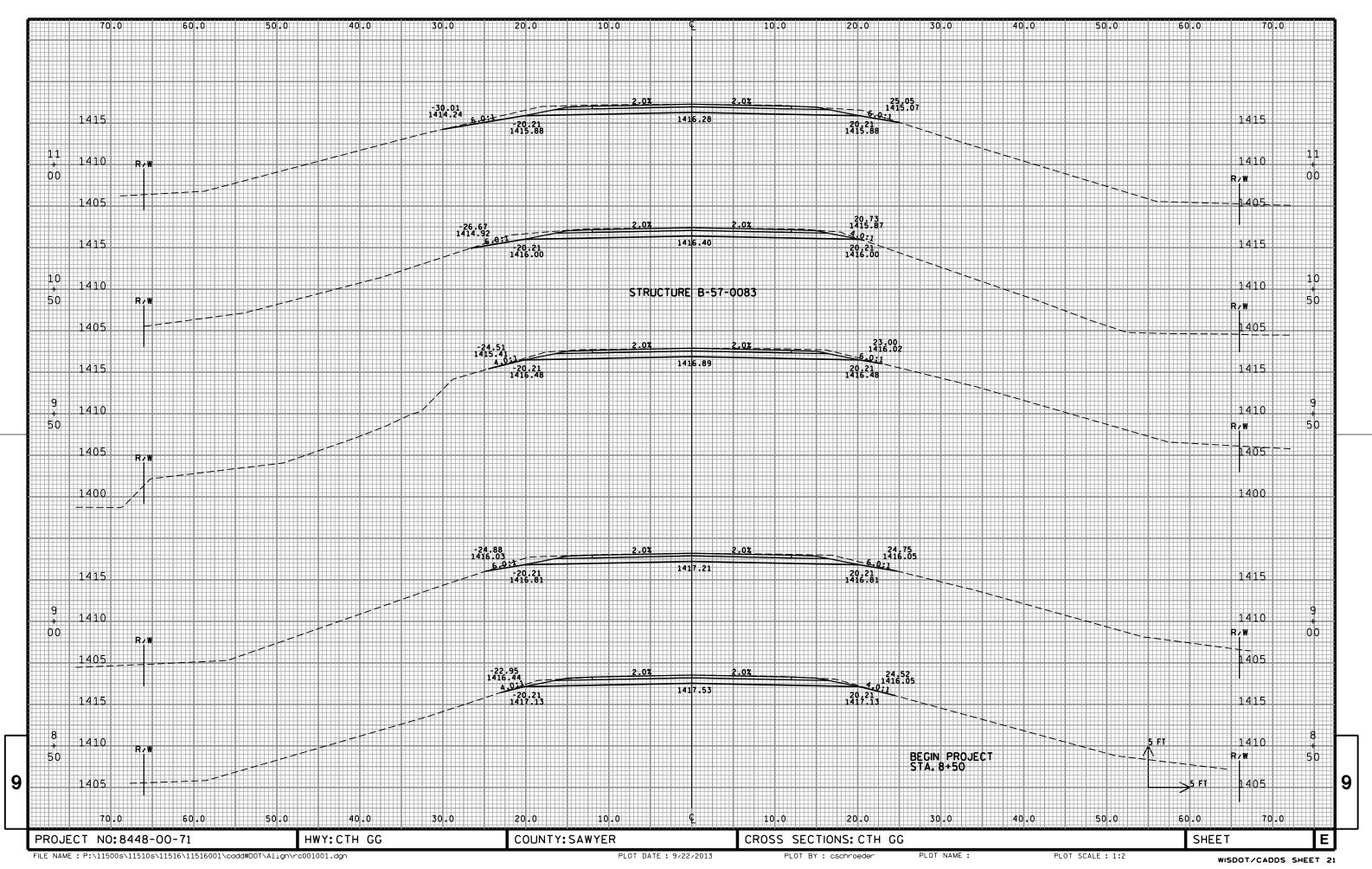
EARTHWORK											
	AREA (SF)			INCREMENTAL VOL. (CY) (UNADJUSTED)			CUMULATIVE VOL. (CY)				
STATION	CUT	SALVAGED, UNUSABLE PAVEMENT MATERIAL	FILL	CUT	SALVAGED, UNUSABLE PAVEMENT MATERIAL	FILL	CUT 1.00	EXPANDED FILL 1.30	MASS ORDINATE		
8+50	37.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
9+00	43.00	0.00	0.00	74.50	0.00	0.00	74.50	0.00	74.50		
9+50	40.80	0.00	0.00	77.60	0.00	0.00	152.10	0.00	152.10		
9+67.7	40.80	0.00	0.00	26.70	0.00	0.00	178.80	0.00	178.80		
10+32.3	42.30	0.00	0.00	0.00	0.00	0.00	178.80	0.00	178.80		
10+50	423.30	0.00	0.00	2 7.7 0	0.00	0.00	206.50	0.00	206.50		
11+00	45.80	0.00	0.00	81.60	0.00	0.00	288.10	0.00	288.10		
11+50	40.20	0.00	0.00	79.60	0.00	0.00	367.70	0.00	367.70		
	COLUMN TOTAL			367.70	0.00	0.00	1				

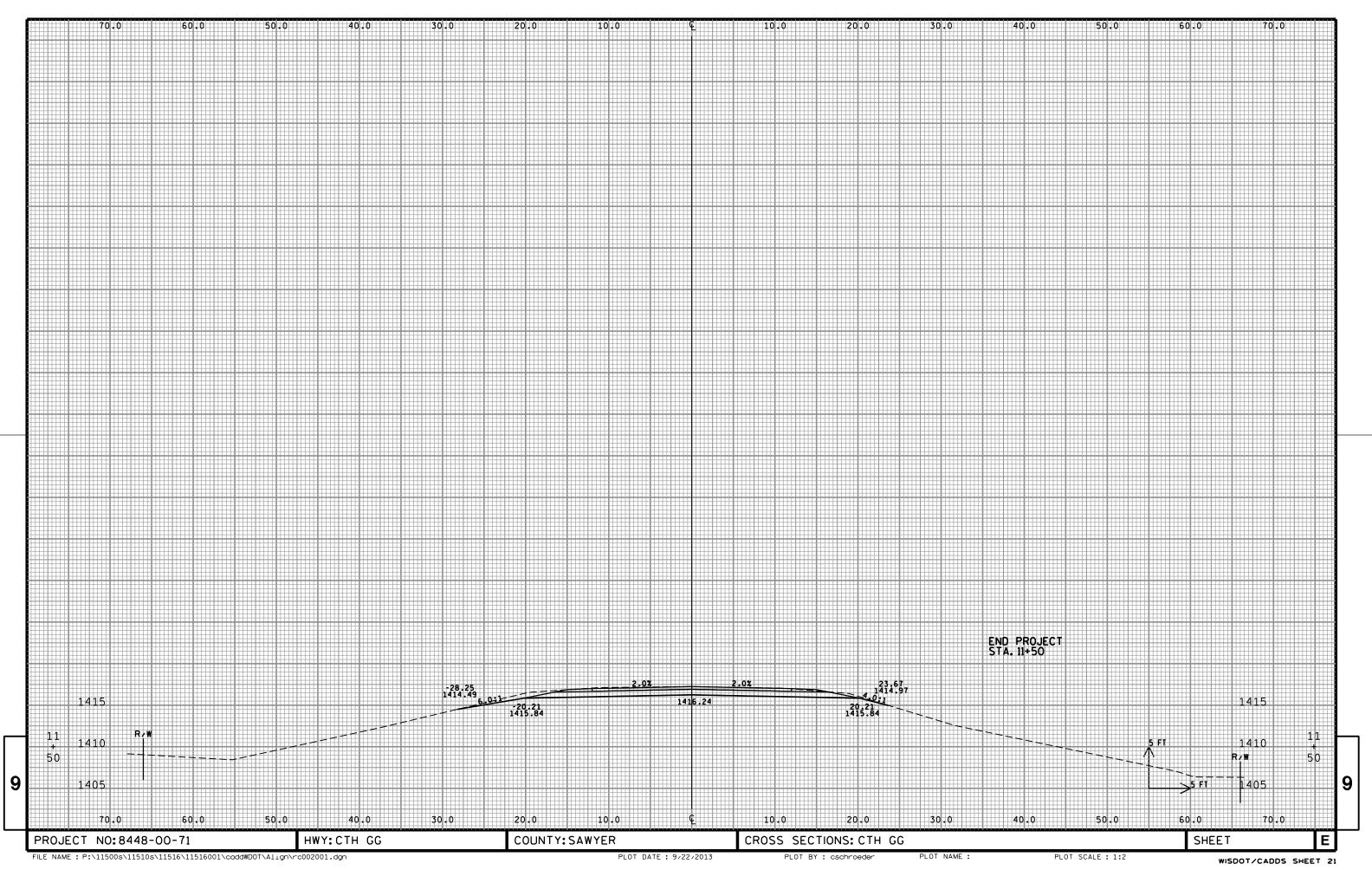
NOTES: 1. NO EBS OR MARSH EXCAVATION ANTICIPATED

2. EXISTING ASPHALTIC SURFACE REMOVAL INCLUDED IN COMMON EXCAVATION TOTALS

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PROJECT NO:8448-00-71 HWY:CTH GG COUNTY:SAWYER EARTHWORK SHEET **E**





Notes



Wisconsin Department of Transportation

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