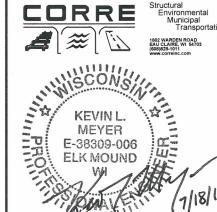
DEPARTMENT OF TRANSPORTATION Section No. 3 Estimate of Quantities Section No. 3 Miscellaneous Quantities PLAN OF PROPOSED IMPROVEMENT Section No. 4 Right of Way Plat Section No. 5 Plan and Profile Section No. 6 Standard Detail Drawings Section No. 7 Sign Plates **CTH C - STH 48** Section No. 8 Structure Plans Section No. 9 Computer Earthwork Data **SPRING CREEK BRIDGE B030200** Section No. 9 Cross Sections CTH NN TOTAL SHEETS = 34 **BARRON COUNTY PROJECT** LOCATION STATE PROJECT NUMBER 8817-00-70 R-10-W END PROJECT STA 11+25 Minnow Y= 143,246.927 X= 369,498.890 23RD **DESIGN DESIGNATION** A.A.D.T. (2017) = 270 **BEGIN PROJECT** A.A.D.T. (2037) = 300 STA 8+75 = 86 Y= 142,996.928 X= 369,499.445 = 60/40 = 10.8% DESIGN SPEED = 60 MPH 22ND **ESALS** = 51,100 **CONVENTIONAL SYMBOLS** 21 1 / **PROFILE** STRUCTURE B030200 CORPORATE LIMITS GRADE LINE 21 1 / 2 AV AVE ORIGINAL GROUND PROPERTY LINE T-35-N __ ROCK_ MARSH OR ROCK PROFILE LOT LINE (To be noted as such) __LABEL LIMITED HIGHWAY EASEMENT MAPLE HILL RD SPECIAL DITCH EXISTING RIGHT OF WAY GRADE ELEVATION PROPOSED OR NEW R/W LINE FENCE LINE CULVERT (Profile View) SLOPE INTERCEPT UTILITIES OVERHEAD REFERENCE LINE ELECTRIC EXISTING CULVERT ---=--FIBER OPTIC —F0 —— PROPOSED CULVERT GAS (Box or Pipe) SANITARY SEWER COMBUSTIBLE FLUIDS STORM SEWER LAYOUT TELEPHONE SCALE L **TELEVISION** MARSH AREA WATER HORIZONTAL POSITIONS SHOWN ON THIS PLAN ARE WISCONSIN COUNTY COORDINATES, BARRON COUNTY, NAD83 (YEAR), IN U.S. SURVEY FEET. VALUES ARE GRID COORDINATES, GRID BEARINGS, AND GRID DISTANCES. UTILITY PEDESTAL X TOTAL NET LENGTH OF CENTERLINE = 0.047 MI WOODED OR SHRUB AREA POWER POLE GRID DISTANCES MAY BE USED AS GROUND DISTANCES. TELEPHONE POLE PLOT NAME :

STATE OF WISCONSIN

FEDERAL PROJECT STATE PROJECT PROJECT CONTRACT 8817-00-70 WISC 2017035

ACCEPTED FOR BARRON COUNTY

ORIGINAL PLANS PREPARED BY



STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION

PREPARED BY Designer

CORRE, INC. CORRE, INC.

Management Conultant

E

KNIGHT E/A, INC.

UTILITY CONTACTS

- * CENTURYLINK COMMUNICATION LINE KYLE SCHLAMPP 20 S. WILSON AVE.T RICE LAKE, WI 54868 (715) 234-5573 KYLE.SCHLAMPP@CENTURYLINK.COM
- * XCEL ENERGY ELECTRICITY STACEY HAUGEN 2911 S. PIONEER AVENUE RICE LAKE, WI 54868 (715) 236-5721 STACEY.RAETHER@XCELENERGY.COM
- * DENOTES UTILITIES THAT ARE DIGGERS HOTLINE MEMBERS



DNR CONTACT

DNR NORTHERN REGION HQ AMY CRONK 810 W. MAPLE STREET SPOONER, WI 54801 (715) 635-4229 amy.cronk@wisconsin.gov

CONSULTANT CONTACT

CORRE, INC. 1802 WARDEN STREET EAU CLAIRE, WI 54703 KEVIN MEYER, P.E. 715-299-1894 kmeyer@correinc.com

GENERAL NOTES

ELEVATIONS SHOWN ON THE PLAN ARE REFERENCED TO NAVD 88.

WHEN THE QUANTITY OF BASE AGGREGATE OR ASPHALTIC SURFACE 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.

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

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

CURVE DATA IS BASED ON THE ARC DEFINITION.

DISTURBED AREAS WITHIN THE RIGHT-OF-WAY, EXCEPT THE AREAS WITHIN THE FINISHED SHOULDER POINTS, ARE TO BE 4-INCH SALVAGED TOPSOILED, FERTILIZED, AND SEEDED.

BEARINGS SHOWN ON THE PLANS ARE GRID BEARINGS TO THE NEAREST SECOND.

THE LOCATION OF ALL DRIVEWAYS WILL BE DETERMINED BY THE ENGINEER.

A VERTICAL SAWCUT SHALL BE MADE THROUGH EXISTING DRIVEWAYS AND PAVEMENTS AT REMOVAL LIMITS.

EXCAVATION BELOW SUBGRADE (EBS) IS NOT USED TO BALANCE YARDAGE AND IS NOT SHOWN ON THE CROSS SECTIONS BUT IS MEASURED AND PAID FOR AS COMMON EXCAVATION.

UTILITY REFERENCE LINES ON THE CROSS SECTIONS ARE FOR HORIZONTAL REFERENCE ONLY.

EROSION CONTROL FEATURES AS SHOWN IN THE PLANS ARE AT SUGGESTED LOCATIONS, EXACT LOCATIONS WILL BE DETERMINED BY THE E.C.I.P AND APPROVED BY THE ENGINEER IN THE FIELD. SILT FENCE IS TO BE PLACED AS SHOWN ON THE PLANS OR AS DIRECTED BY THE ENGINEER, AND IN PLACE PRIOR TO REMOVALS.

RUNOFF COEFFICIENT TABLE

		HYDROLOGIC SOIL GROUP										
	A B						;		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 & OVER
ROW CROPS	.08	.16	.22 .38	.12 .26	.20 .34	.27 .44	.15 .30	.24 .37	.33 .50	.19	.28 .41	.38 .56
MEDIAN STRIP- TURF	.19	.20	.24	.19 .25	.22	.26	.20	.23	.30	.20 .27	.25	.30
SIDE SLOPE- TURF			.25 .32			.27 .34			.28 .36			.30 .38
PAVEMENT:												
ASPHALT						.7095						
CONCRETE						.8095						
BRICK						.7080						
DRIVES, WALKS						.7585						
ROOFS						.7595						
GRAVEL ROADS,	SHOULDE	ERS				.4060						

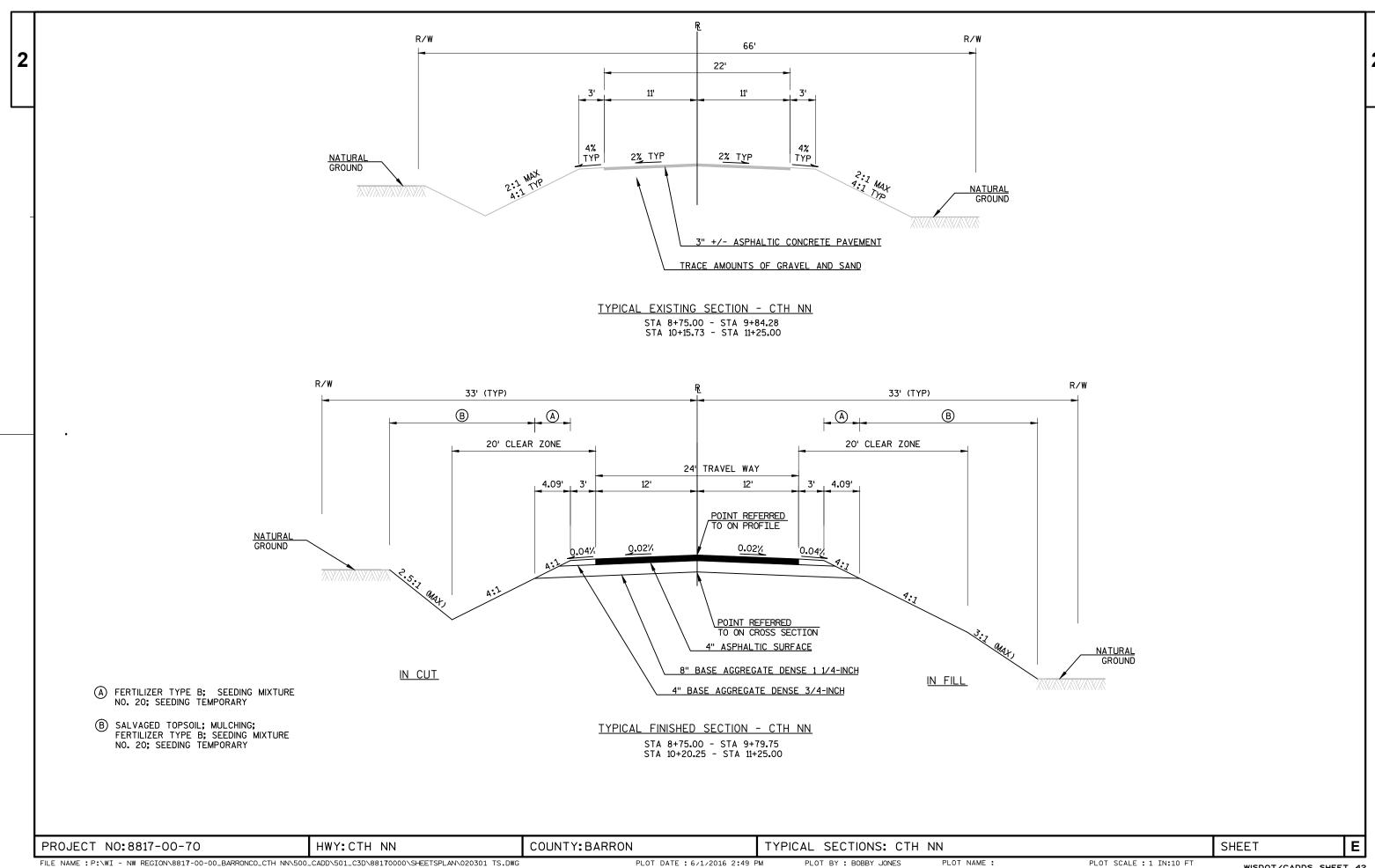
TOTAL PROJECT AREA = 0.38 ACRES

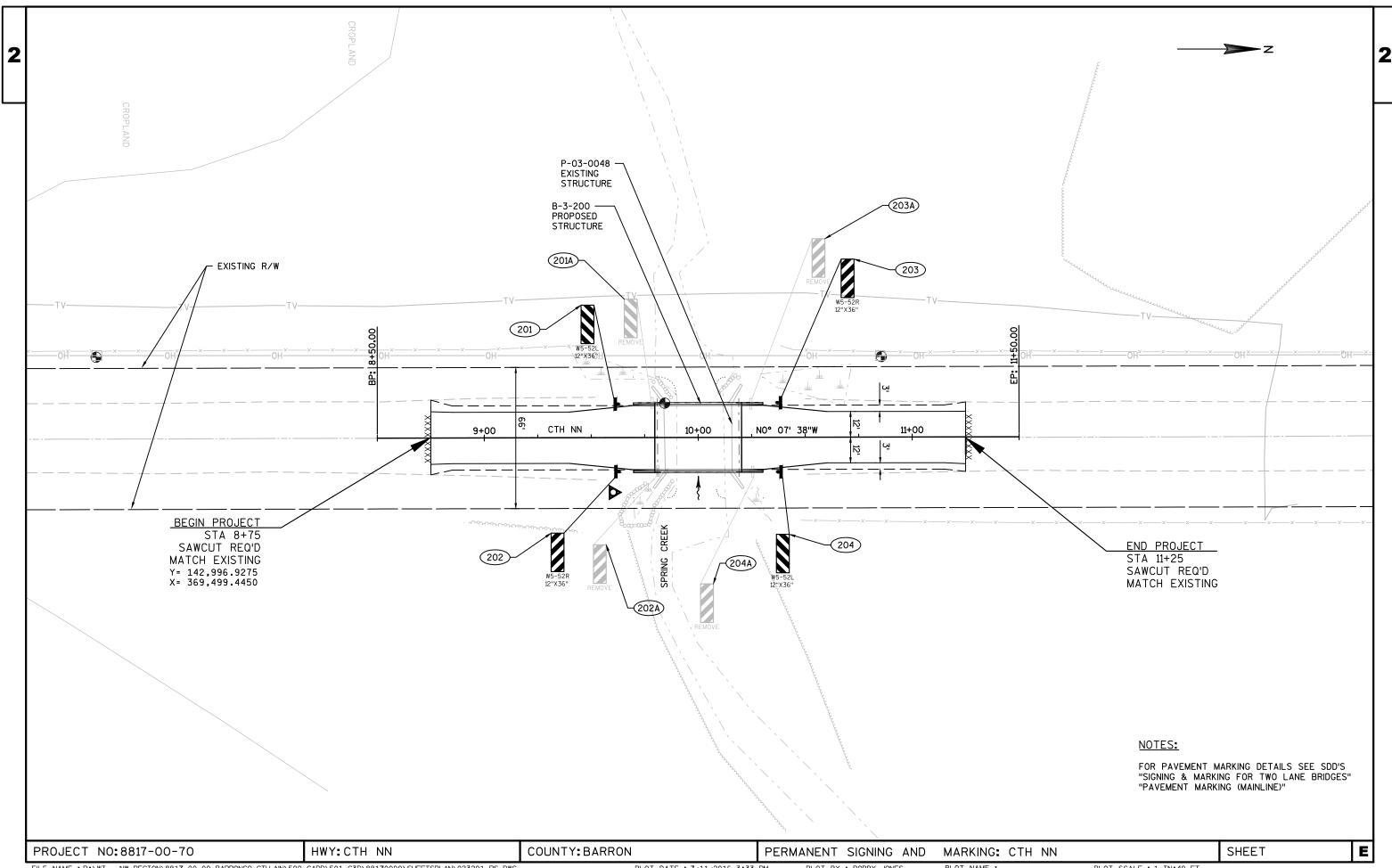
GENERAL NOTES: CTH NN

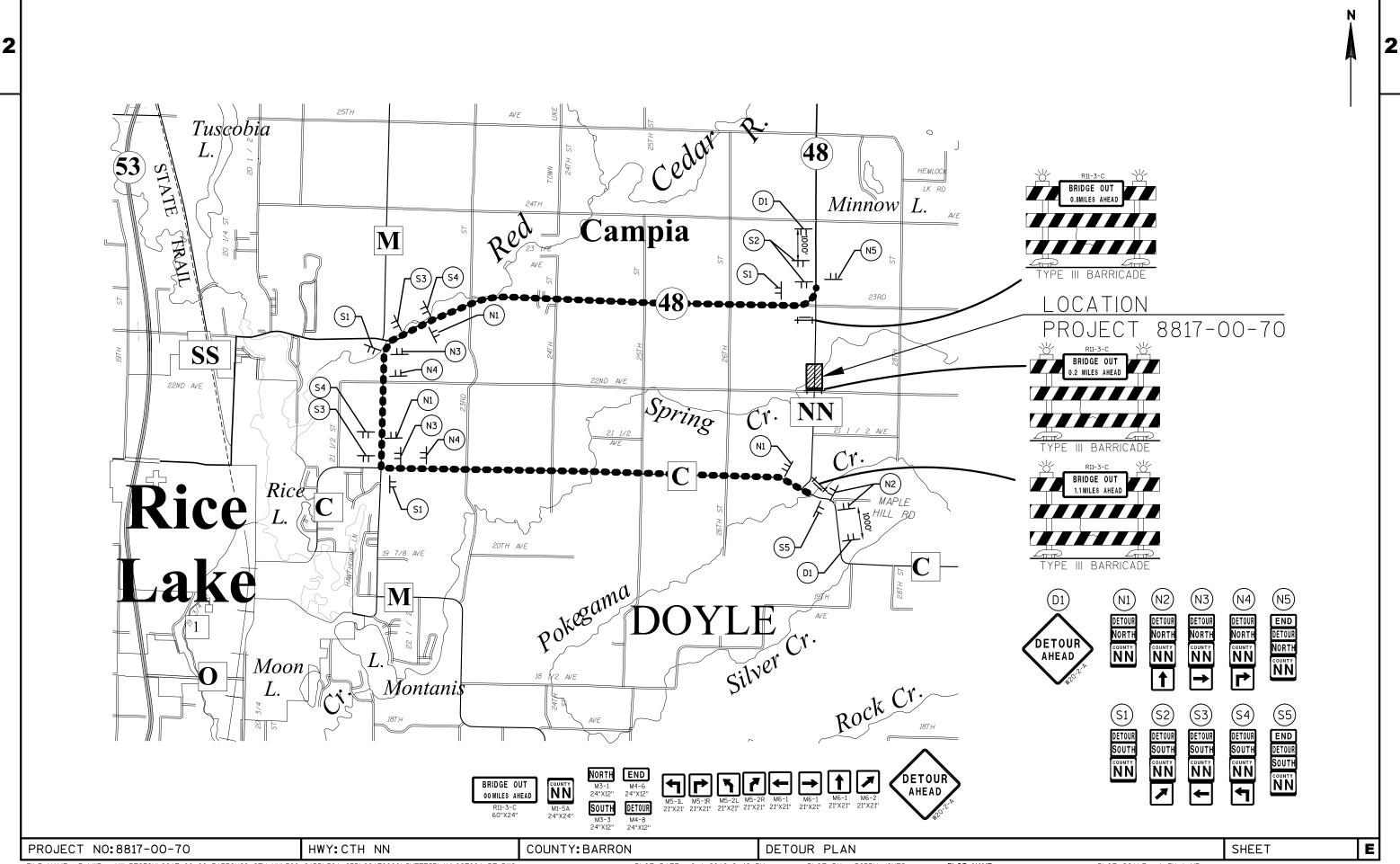
TOTAL AREA EXPECTED TO BE DISTURBED BY CONSTRUCTION ACTIVITIES =0.28 ACRES

E

SHEET







Estimate Of Quantities By Plan Sets

Page 1

					8817-00-70	
Line	Item	Item Description	Unit	Total	Qty	
0030	203.0600.S	Removing Old Structure Over Waterway With Minimal Debris (station) 01. 10+00 Project 8817-00-70	LS	1.000	1.000	
0050	205.0100	Excavation Common	CY	302.000	302.000	
0060	206.1000	Excavation for Structures Bridges (structure) 01. B-03-0200	LS	1.000	1.000	
0090	210.1500	Backfill Structure Type A	TON	320.000	320.000	
0100	213.0100	Finishing Roadway (project) 01. 8817-00-70	EACH	1.000	1.000	
0120	305.0110	Base Aggregate Dense 3/4-Inch	TON	66.000	66.000	
0130	305.0120	Base Aggregate Dense 1 1/4-Inch	TON	422.000	422.000	
0170	455.0605	Tack Coat	GAL	40.000	40.000	
0180	465.0105	Asphaltic Surface	TON	130.000	130.000	
0200	502.0100	Concrete Masonry Bridges	CY	161.000	161.000	
0210	502.3200	Protective Surface Treatment	SY	140.000	140.000	
0220	502.3210	Pigmented Surface Sealer	SY	52.000	52.000	
0230	505.0400	Bar Steel Reinforcement HS Structures	LB	4,010.000	4,010.000	
0240	505.0600	Bar Steel Reinforcement HS Coated Structures	LB	22,410.000	22,410.000	
0250	516.0500	Rubberized Membrane Waterproofing	SY	20.000	20.000	
0270	550.1100	Piling Steel HP 10-Inch X 42 Lb	LF	250.000	250.000	
0300	606.0300	Riprap Heavy	CY	175.000	175.000	
0310	612.0406	Pipe Underdrain Wrapped 6-Inch	LF	140.000	140.000	
0320	614.0150	Anchor Assemblies for Steel Plate Beam Guard	EACH	4.000	4.000	
0360	619.1000	Mobilization	EACH	0.500	0.500	
0370	624.0100	Water	MGAL	30.000	30.000	
0380	625.0500	Salvaged Topsoil	SY	740.000	740.000	
0390	627.0200	Mulching	SY	205.000	205.000	
0400	628.1504	Silt Fence	LF	520.000	520.000	
0410	628.1520	Silt Fence Maintenance	LF	520.000	520.000	
0420	628.1905	Mobilizations Erosion Control	EACH	2.000	2.000	
0430	628.1910	Mobilizations Emergency Erosion Control	EACH	2.000	2.000	
0440	628.2008	Erosion Mat Urban Class I Type B	SY	535.000	535.000	
0450	628.6005	Turbidity Barriers	SY	76.000	76.000	
0460	629.0210	Fertilizer Type B	CWT	0.500	0.500	
0470	630.0120	Seeding Mixture No. 20	LB	14.000	14.000	
0500	630.0200	Seeding Temporary	LB	20.000	20.000	
0510	634.0612	Posts Wood 4x6-Inch X 12-FT	EACH	4.000	4.000	
0520	637.2230	Signs Type II Reflective F	SF	12.000	12.000	
0530	638.2602	Removing Signs Type II	EACH	4.000	4.000	
0540	638.3000	Removing Small Sign Supports	EACH	4.000	4.000	
0550	642.5201	Field Office Type C	EACH	0.500	0.500	
0560	643.0100	Traffic Control (project) 01. 8817-00-70	EACH	1.000	1.000	
	0.0.0100	(p. 5,500, 0. 1. 00 1. 00 10	_,	11000	11000	

Estimate Of Quantities By Plan Sets

Page 2

				8817-00-70
Item	Item Description	Unit	Total	Qty
643.0420	Traffic Control Barricades Type III	DAY	715.000	715.000
643.0705	Traffic Control Warning Lights Type A	DAY	1,105.000	1,105.000
643.0900	Traffic Control Signs	DAY	975.000	975.000
643.2000	Traffic Control Detour (project) 01. 8817-00-70	EACH	1.000	1.000
643.3000	Traffic Control Detour Signs	DAY	4,485.000	4,485.000
645.0120	Geotextile Type HR	SY	260.000	260.000
646.0106	Pavement Marking Epoxy 4-Inch	LF	575.000	575.000
650.4500	Construction Staking Subgrade	LF	210.000	210.000
650.5000	Construction Staking Base	LF	210.000	210.000
650.6500	Construction Staking Structure Layout (structure) 01. B-03-0200	LS	1.000	1.000
650.9910	Construction Staking Supplemental Control (project) 01. 8817-00-70	LS	1.000	1.000
650.9920	Construction Staking Slope Stakes	LF	210.000	210.000
690.0150	Sawing Asphalt	LF	48.000	48.000
715.0502	Incentive Strength Concrete Structures	DOL	966.000	966.000
ASP.1T0A	On-the-Job Training Apprentice at \$5.00/HR	HRS	1,200.000	1,200.000
ASP.1T0G	On-the-Job Training Graduate at \$5.00/HR	HRS	300.000	300.000
	643.0420 643.0705 643.0900 643.2000 643.3000 645.0120 646.0106 650.4500 650.5000 650.6500 650.9910 650.9920 690.0150 715.0502 ASP.1T0A	643.0420 Traffic Control Barricades Type III 643.0705 Traffic Control Warning Lights Type A 643.0900 Traffic Control Signs 643.2000 Traffic Control Detour (project) 01. 8817-00-70 643.3000 Traffic Control Detour Signs 645.0120 Geotextile Type HR 646.0106 Pavement Marking Epoxy 4-Inch 650.4500 Construction Staking Subgrade 650.5000 Construction Staking Base 650.6500 Construction Staking Structure Layout (structure) 01. B- 03-0200 650.9910 Construction Staking Supplemental Control (project) 01. 8817-00-70 650.9920 Construction Staking Slope Stakes 690.0150 Sawing Asphalt 715.0502 Incentive Strength Concrete Structures ASP.1T0A On-the-Job Training Apprentice at \$5.00/HR	643.0420 Traffic Control Barricades Type III DAY 643.0705 Traffic Control Warning Lights Type A DAY 643.0900 Traffic Control Signs DAY 643.2000 Traffic Control Detour (project) 01. 8817-00-70 EACH 643.3000 Traffic Control Detour Signs DAY 645.0120 Geotextile Type HR SY 646.0106 Pavement Marking Epoxy 4-Inch LF 650.4500 Construction Staking Subgrade LF 650.5000 Construction Staking Base LF 650.6500 Construction Staking Structure Layout (structure) 01. B- 03-0200 650.9910 Construction Staking Supplemental Control (project) 01. LS 8817-00-70 650.9920 Construction Staking Slope Stakes LF 690.0150 Sawing Asphalt LF 715.0502 Incentive Strength Concrete Structures DOL ASP.1T0A On-the-Job Training Apprentice at \$5.00/HR	643.0420 Traffic Control Barricades Type III DAY 715.000 643.0705 Traffic Control Warning Lights Type A DAY 1,105.000 643.0900 Traffic Control Signs DAY 975.000 643.2000 Traffic Control Detour (project) 01. 8817-00-70 EACH 1.000 643.3000 Traffic Control Detour Signs DAY 4,485.000 645.0120 Geotextile Type HR SY 260.000 646.0106 Pavement Marking Epoxy 4-Inch LF 575.000 650.4500 Construction Staking Subgrade LF 210.000 650.5000 Construction Staking Base LF 210.000 650.6500 Construction Staking Structure Layout (structure) 01. B- LS 1.000 03-0200 Construction Staking Supplemental Control (project) 01. LS 1.000 650.9910 Construction Staking Slope Stakes LF 210.000 690.0150 Sawing Asphalt LF 48.000 715.0502 Incentive Strength Concrete Structures DOL 966.000 ASP.1T0A On-the-Job Training Apprentice at \$5.00/HR

FINISHING ROADWAY

213.0100 EACH COMMENTS

CATEGORY CODE 0010

TOTAL 1

ID 8817-00-70

- 1) Common Excavation is the sum of the Cut and EBS Excavation columns. Item number 205.0100
- 2) Salvaged/Unsuable Pavement Material is included in Cut.
- 3) EBS Excavation to be backfilled with Select Borrow material.
- 5) Available Material = Cut Salvaged/Unusuable Pavement Material
- 13) Expanded Fill. Factor = 1.25

Expanded Fill = Unexpanded Fill * Fill Factor

14) The Mass Ordinate + or - Qty calculated for the Division. Plus quantity indicates an excess of material within the Division. Minus indicates a shortage of material within the Division.

305.0120

422

305.0110

BASE AGGREGATE DENSE

		BASE AGGREGATE	BASE AGGREGATI
		DENSE 3/4-INCH	DENSE 1 1/4-INCH
STATION - STATION	LOCATION	TON	TON
CATEGORY CODE 0010			
8+75 - 9+80	Mainline		191
10+20 - 11+25	Mainline		191
8+75 - 9+80	SHOULDER, LT	14	
8+75 - 9+80	SHOULDER, RT	14	
10+20 - 11+25	SHOULDER, LT	14	
10+20 - 11+25	SHOULDER, RT	14	
	UNDISTRIBUTED	10	40

TOTALS:

MOBILIZATION

CATEGORY	619.1000 EACH
0010	0.1
0020	0.4
TOTA	LS 0.5

WATER

LOCATION	624.0100 MGAL
CATEGORY CODE 0010	
BASE COMPACTION	30
TOTALS	30

ASPHALTIC ITEMS

STATION			LOCATION	455.0605 TACK COAT GAL	465.0105 ASPHALTIC SURFACE TON
CATEGORY	CO	DE 0010			
8+75	-	9+80	MAINLINE	20	64
10+20	-	11+25	MAINLINE	20	64
			TOTALS	40	130

LANDSCAPING ITEMS

STATION	_	STATION	LOCATION	625.0500 SALVAGED TOPSOIL SY	627.0200 MULCHING SY	628.2008 EROSION MAT URBAN CLASS I TYPE B SY	629.0210 FERTILIZER TYPE B CWT	630.0120 SEED MIX NO. 20 LBS	630.0200 SEED TEMPORARY LBS
CATEGORY	COD	E 0010							
8+75	-	9+80	LT	210	40	170	0.1	4	5.7
8+75	-	9+80	RT	210	80	130	0.1	4	5.7
10+20	-	11+25	LT	160	40	120	0.1	3	4.3
10+20	-	11+25	RT	160	45	115	0.1	3	4.3
			TOTALS	740	205	535	0.5	14	20

PROJECT NO: 8817-00-70 HWY: CTH NN COUNTY: BARRON MISCELLANEOUS QUANTITIES SHEET NO: E

SILT FENCE

						MOBIL	IZATIONS
				628.1504 SILT FENCE	628.1520 MAINTENANCE	628.1504 EROSION CONTROL	628.1910 EM ERGENCY EROSION CONTROL
			LOCATION	LF	LF	EACH	EACH
ATEGORY	CC	DE 0010					
8+75	_	9+80	LT	130	130	1	1
8+75	-	9+80	RT	130	130		
10+20	-	11+25	LT	130	130	1	1
10+20	-	11+25	RT	130	130		
			TOTALS	520	520	2	2

TURBIDITY BARRIER

LOCATION	628.6005 TURBIDITY BARRIER SY
CATEGORY CODE 0010	
SOUTH ABUTMENT	40
NORTH ABUTMENT	36
TOTALS	76

634.0612 637.2230 **POSTS WOOD** SIGNS TYPE II SIGN 4X6X12 REFLECTIVE F CODE SIZE STATION LOCATION EACH SF CATEGORY CODE 0010 9+70 W5-52R 12" X 36" 3.0 9+70 LT W5-52L 12" X 36" 3.0 3.0 10+30 RT W5-52R 12" X 36" 10+30 LT 3.0 W5-52L 12" X 36"

TOTALS 4 12.0

REMOVING SIGN ITEMS

STATION	LOCATION	638.2602 REMOVING SIGNS TYPE II EACH	638.3000 REMOVING SMALL SIGN SUPPORTS EACH
CATEGORY COD	E 0010		
9+70	RT	1	1
9+70	LT	1	1
10+30	RT	1	1
10+30	LT	1	1
	TOTALS	4	4

TRAFFIC CONTROL ITEMS

	643.0100 TRAFFIC CONTROL	643.2000 TRAFFIC CONTROL DETOUR	FFIC CONTROL BARRICADES		WAR	.0705 RNING GHTS PEA	643.0900 SIGNS		643.3000 TRAFFIC CONTROL DETOUR SIGNS		
LOCATION	PROJECT	PROJECT	EACH	DAYS	EACH	DAYS	EACH	DAYS	EACH	DAYS	
CATEGORY CODE 0010											
PROJECT	1	1	11	715	17	1,105	15	975	69	4,485	
TOTALS	S 1	1		715		1,105		975		4,485	

SAWING PAVEMENT ITEMS

STATION CATEGORY COD	LOCATION DE 0010	690.0150 ASPHALT LF
8+75 11+25	CTH NN CTH NN	24 24
	TOTALS	48

PAVEMENT MARKING ITEMS

				EP	6.0106 OXY NCH
				WHITE	YELLOW
STATION	-	STATION	LOCATION	LF	LF
CATEGORY	C	ODE 0010			
8+75	-	11+25	CL		75
8+75	8+75 - 11+25		EDGELINE	500	
			TOTALS	500	75
					575

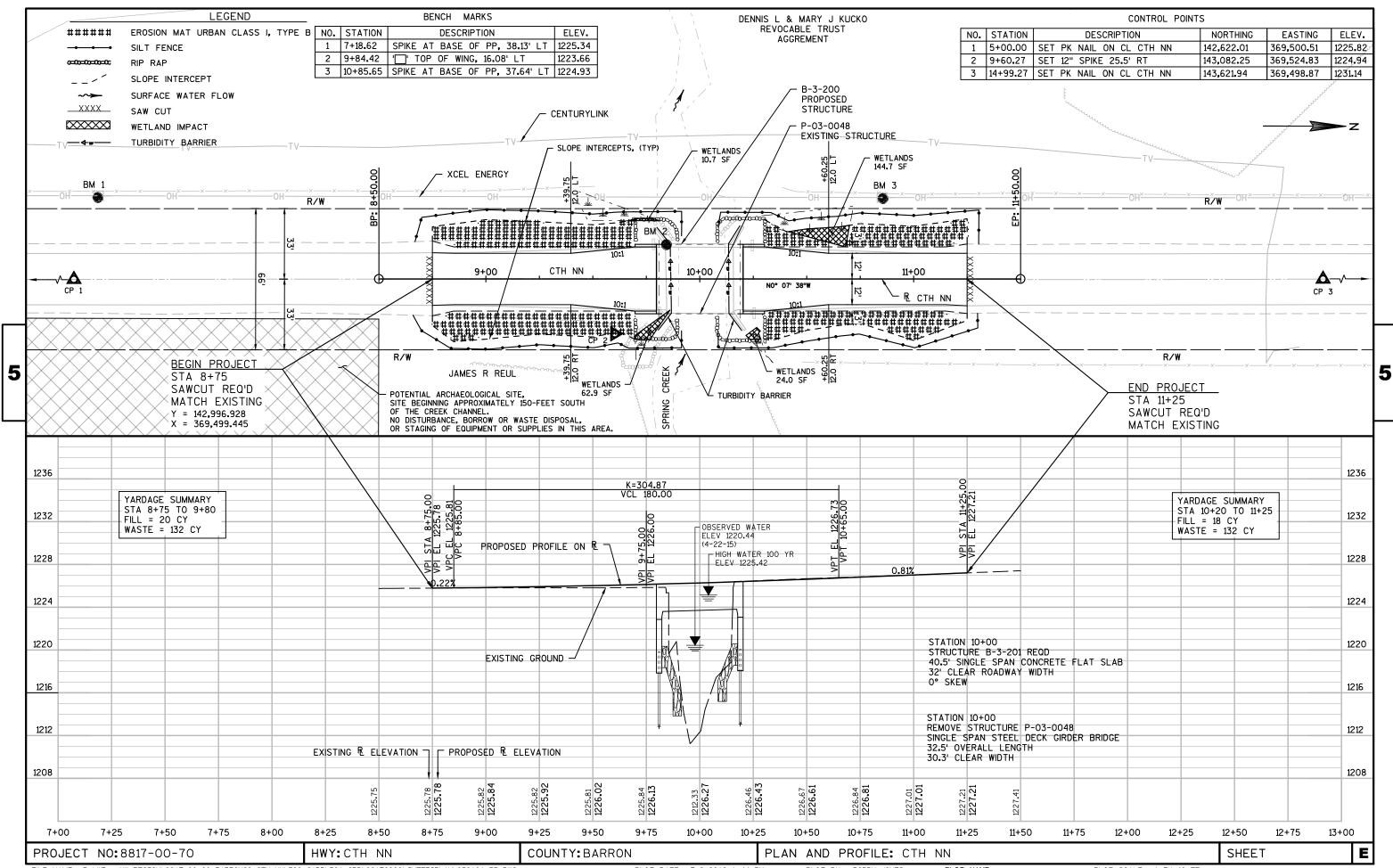
CONSTRUCTION STAKING ITEMS

STATION - STATION CATEGORY CODE 0010	LOCATION	650.4500 STAKING SUBGRADE LF	650.5000 STAKING BASE LF	650.6500* STRUCTURE LAYOUT LS	650.9910 SUPPLEMENTAL CONTROL LS	650.9920 SLOPE STAKES LF
PROJECT				1		
8+75 - 9+80	MAINLINE	105	105		1	105
10+20 - 11+25	MAINLINE	105	105			105
	TOTALS	210	210	1	1	210

* ALL STAKING ITEMS PART OF CATEGORY CODE 0010 OTHER THAN 650.6500 WHICH IS IN CATEGORY 0020

PROJECT NO: 8817-00-70 HWY: CTH NN COUNTY: BARRON MISCELLANEOUS QUANTITIES SHEET NO: E

PLOT BY: CORRE INC.



Standard Detail Drawing List

08E09-06	SILT FENCE
08E11-02	TURBI DI TY BARRI ER
12A03-10	NAME PLATE (STRUCTURES)
15C02-06A	BARRICADES AND SIGNS FOR MAINLINE CLOSURES
15C02-06B	BARRICADES AND SIGNS FOR MAINLINE CLOSURES
15C02-06C	DETOUR SIGNING FOR MAINLINE CLOSURES
15C06-07	SIGNING & MARKING FOR TWO LANE BRIDGES
15C08-16A	PAVEMENT MARKING (MAINLINE)

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

|--|

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-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

2

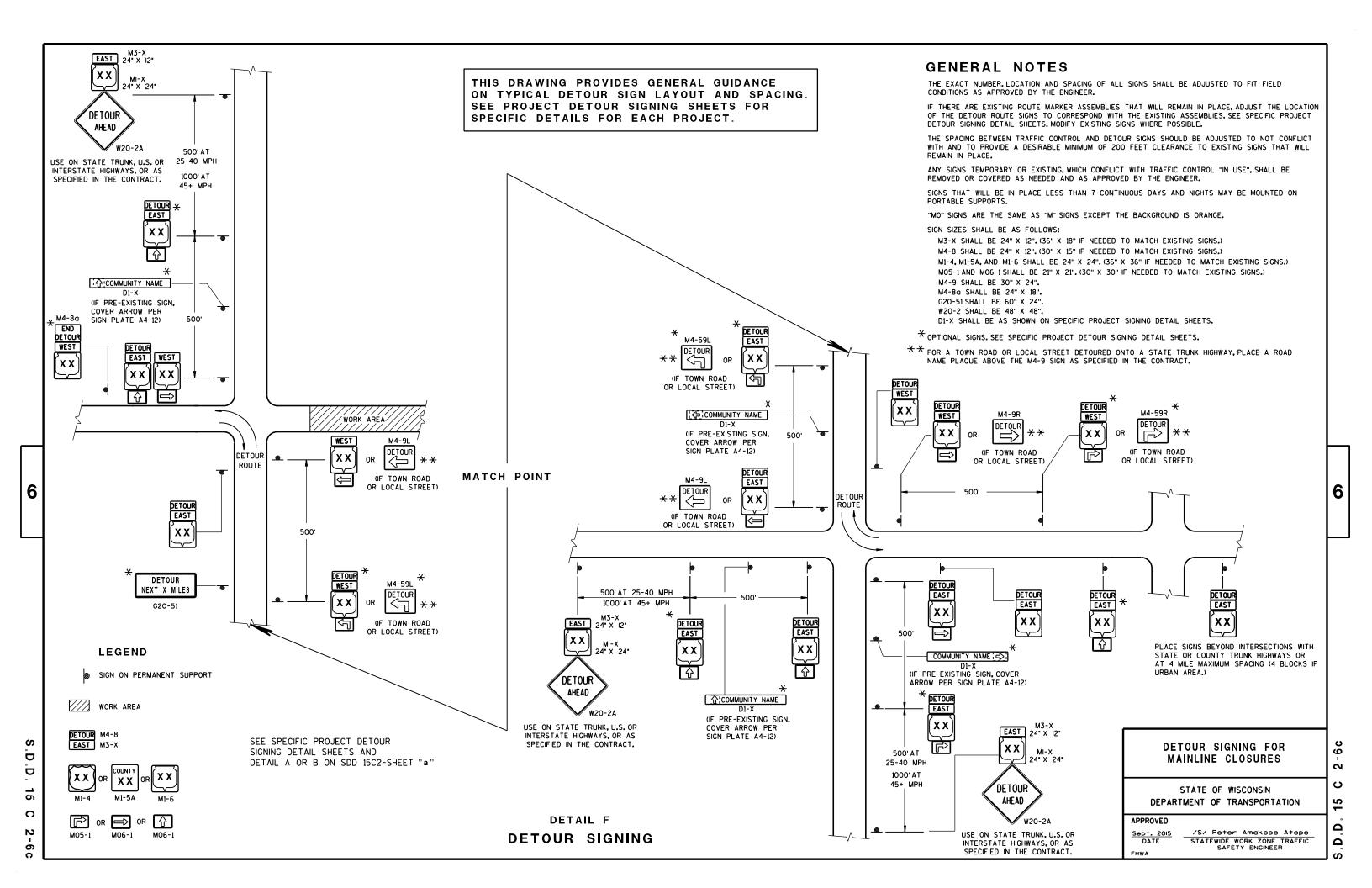
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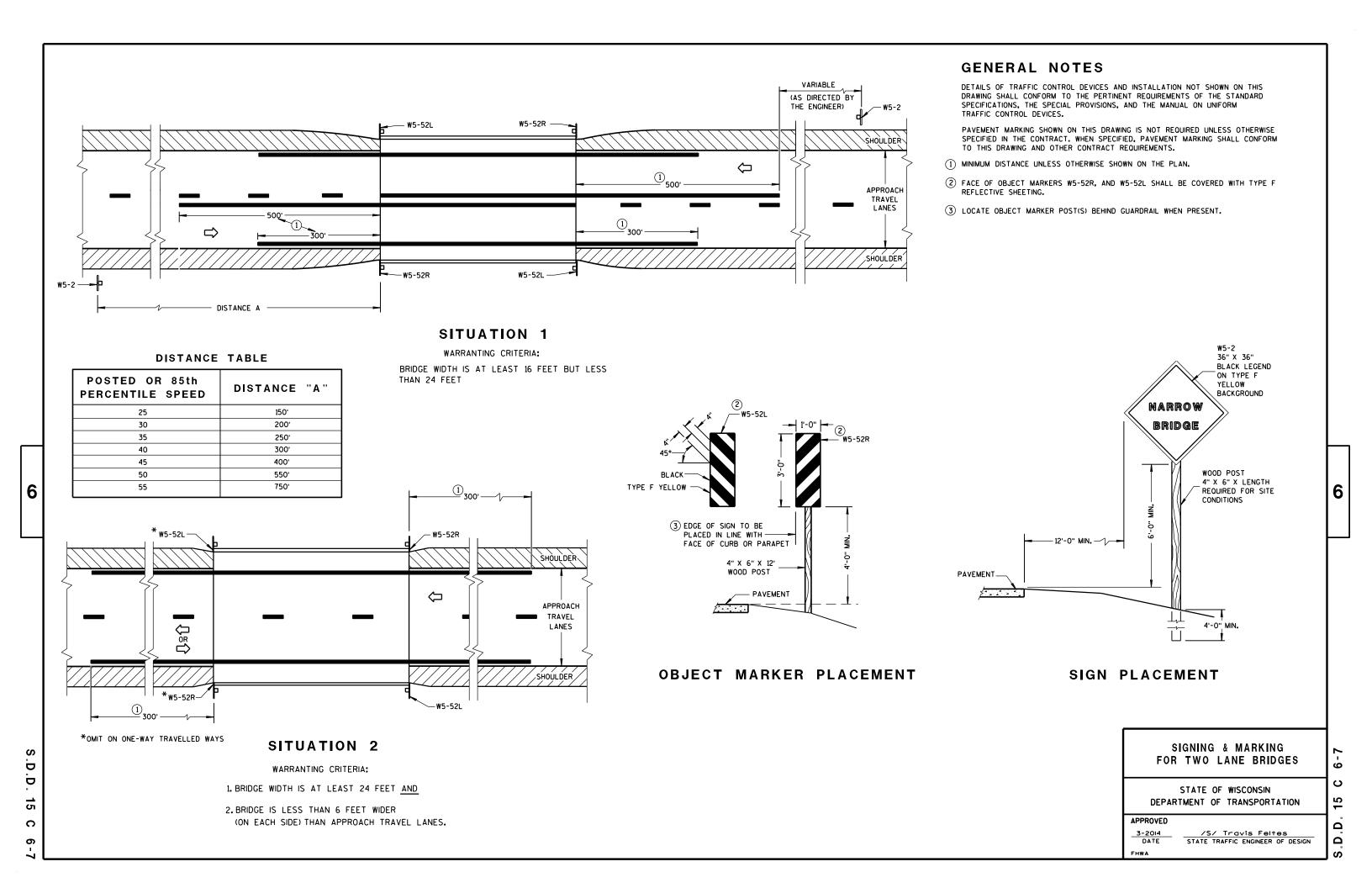
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STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION

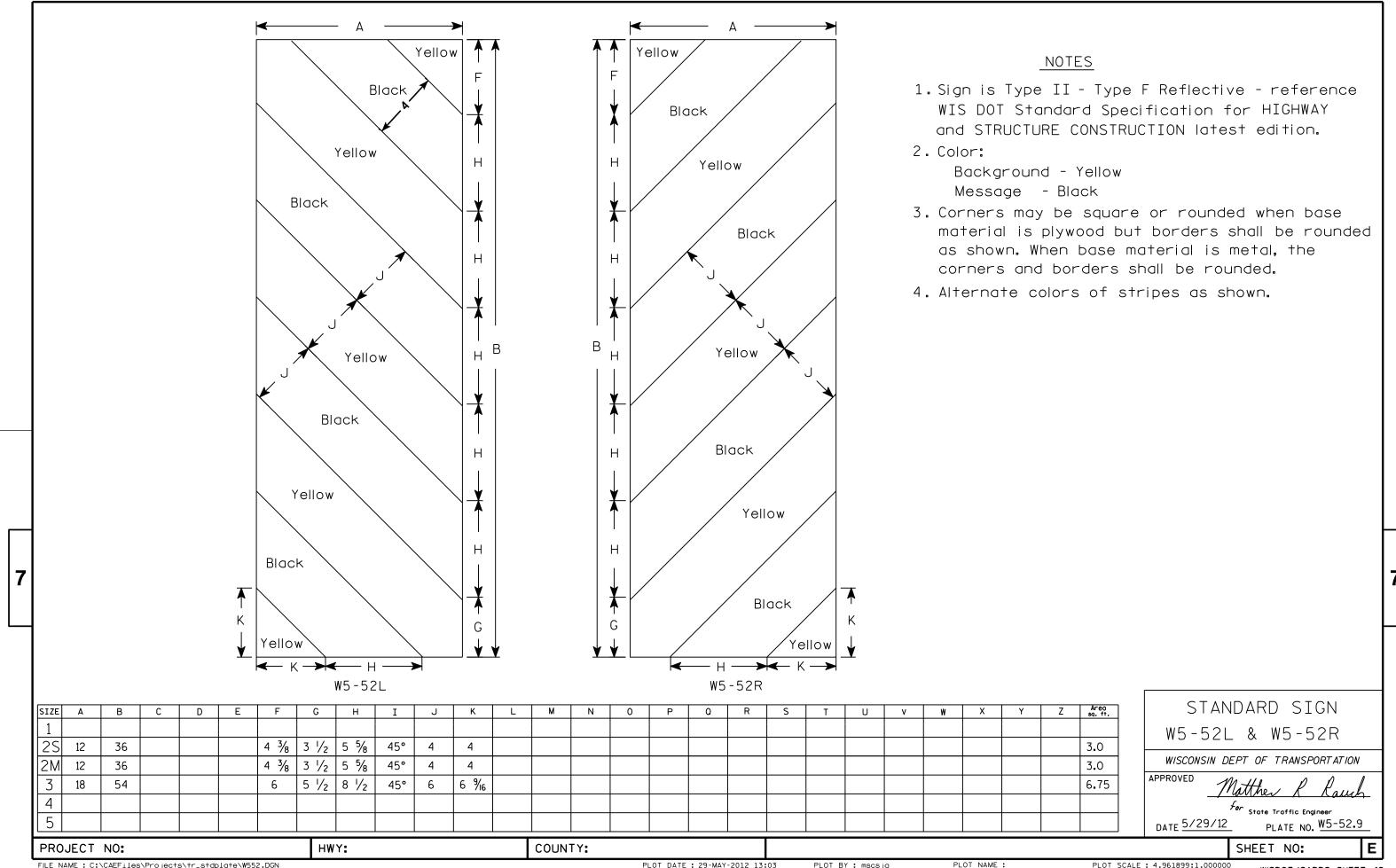
/S/ Peter Amakobe Atepe

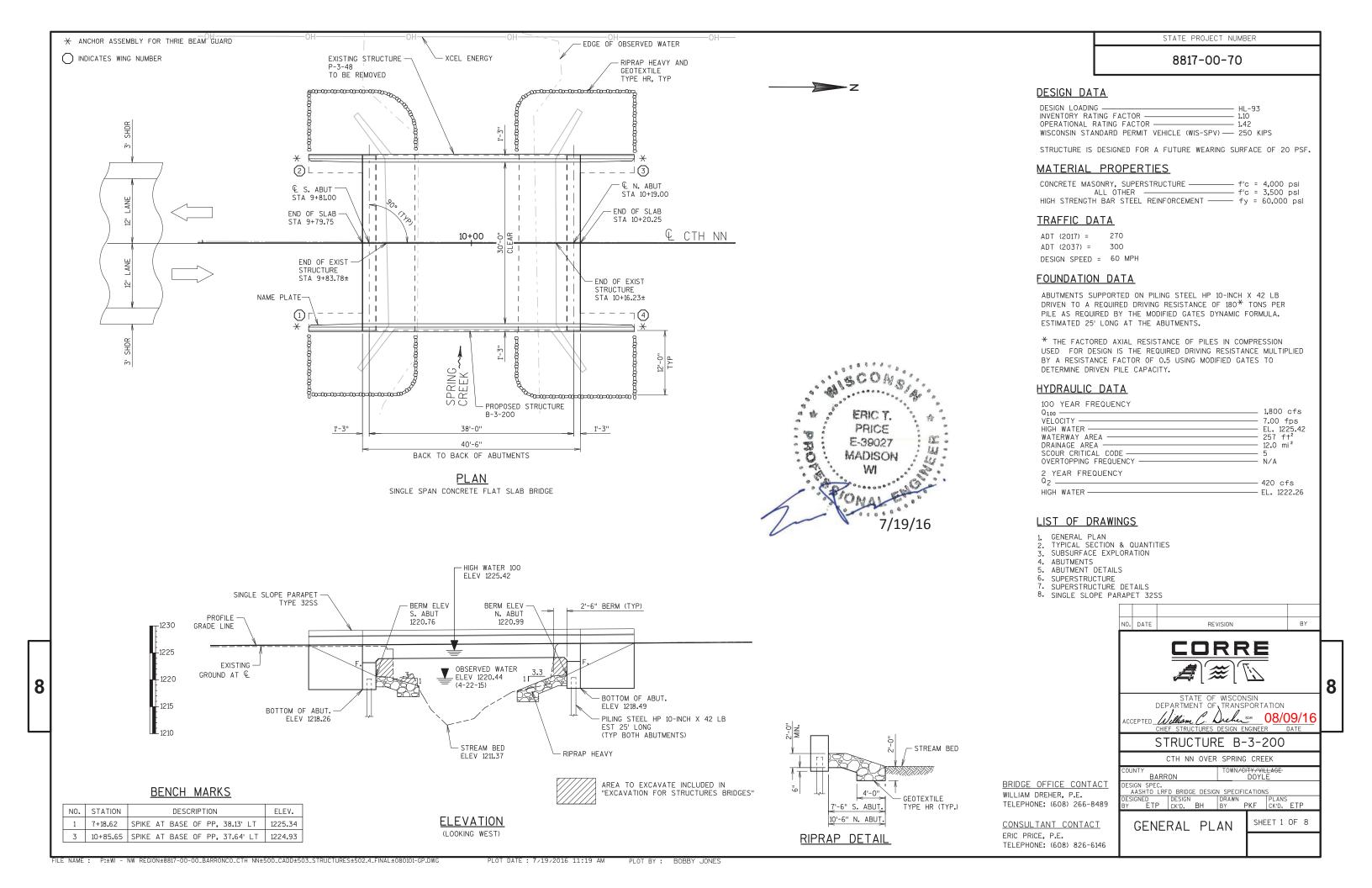
STATEWIDE WORK ZONE TRAFFIC SAFETY ENGINEER



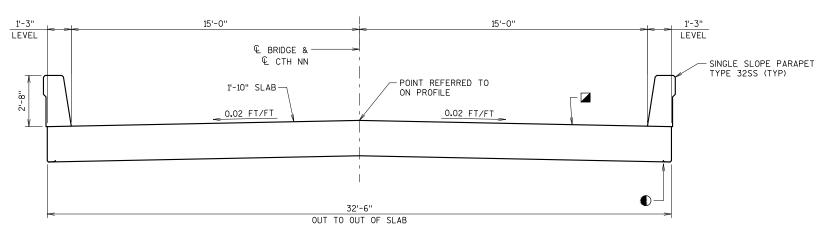








8817-00-70



CROSS SECTION THRU BRIDGE (LOOKING NORTH)

LEGEND

- 1 3/4" V-GROOVE. TERMINATE 6" FROM FRONT FACE OF ABUTMENTS.
- COAT WITH "PROTECTIVE SURFACE TREATMENT" AS PER THE STANDARD

180' VC VPT STA 10+65 VPC EL 1226.73 STA 8+85 EL 1225.81 VPI STA 9+75 VPC EL 1226.00 PROFILE GRADE LINE

TOTAL ESTIMATED QUANTITIES

ı	BID NUMBER	BID ITEM	UNIT	SOUTH ABUT	NORTH ABUT	SUPER	TOTALS
1	203.0600.S	REMOVING OLD STRUCTURE OVER WATERWAY WITH MINIMAL DEBRIS STA. 10+00	LS				1
	206.1000	EXCAVATION FOR STRUCTURES BRIDGES B-3-200	LS				1
	210.1500	BACKFILL STRUCTURE TYPE A	TON	160	160		320
	502.0100	CONCRETE MASONRY BRIDGES	CY	33	33	95	161
	502.3200	PROTECTIVE SURFACE TREATMENT	SY			140	140
	502.3210	PIGMENTED SURFACE SEALER	SY	9	9	34	52
	505.0400	BAR STEEL REINFORCEMENT HS STRUCTURES	LB	2,005	2,005		4,010
	505.0600	BAR STEEL REINFORCEMENT HS COATED STRUCTURES	LB	1,895	1,895	18,620	22,410
1	516.0500	RUBBERIZED MEMBRANE WATERPROOFING	SY	10	10		20
	550.1100	PILING STEEL HP 10-INCH X 42 LB	LF	125	125		250
	606.0300	RIPRAP HEAVY	CY	80	95		175
	612.0406	PIPE UNDERDRAIN WRAPPED 6-INCH	LF	70	70		140
	645.0120	GEOTEXTILE TYPE HR	SY	120	140		260
	614.0150	ANCHOR ASSEMBLIES FOR STEEL PLATE BEAM GUARD	EA				4
		NON-BID ITEMS					
		FILLER	SIZE				1/2" & 3/4"

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 NO. AND THE FIRST TWO DIGITS OF A FOUR DIGIT BAR NO. SIGNIFIES THE BAR SIZE.

JOINT FILLER SHALL CONFORM TO THE REQUIREMENTS OF AASHTO DESIGNATION M153 TYPE I, II OR III OR AASHTO DESIGNATION M213.

THE SLOPE OF THE FILL IN FRONT OF THE ABUTMENTS SHALL BE COVERED WITH RIPRAP HEAVY AND GEOTEXTILE TYPE HR TO THE EXTENT SHOWN ON THE GENERAL PLAN SHEET AND IN THE ABUTMENT DETAILS, OR AS DIRECTED BY THE ENGINEER.

SLAB FALSEWORK SHALL BE SUPPORTED ON PILES OR THE SUBSTRUCTURE UNLESS AN ALTERNATE METHOD IS APPROVED BY THE ENGINEER.

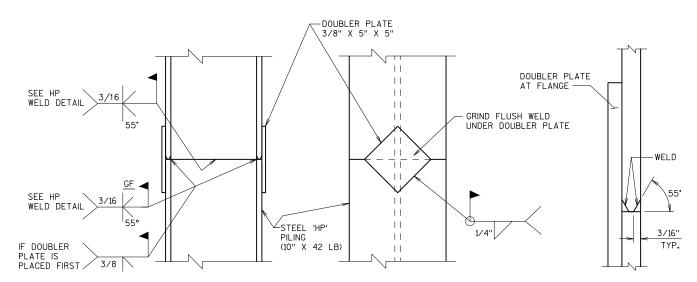
THE EXISTING GROUND LINE SHALL BE THE UPPER LIMIT FOR EXCAVATION FOR STRUCTURES.

PIGMENTED SURFACE SEALER SHALL BE APPLIED TO THE ENTIRE INSIDE FACE AND TOP SURFACE OF THE PARAPETS ON THE WINGS AND SUPERSTRUCTURE.

THE EXISTING STRUCTURE P-3-48, TO BE REMOVED, IS A SINGLE SPAN STEEL DECK GIRDER BRIDGE, 32.5 FT. LONG WITH A 30.3 FT. CLEAR ROADWAY WIDTH.

AT THE BACKFACE OF ABUTMENT ALL VOLUME WHICH CANNOT BE PLACED BEFORE ABUTMENT CONSTRUCTION AND IS NOT OCCUPIED BY THE NEW STRUCTURE SHALL BE BACKFILLED WITH BACKFILL STRUCTURE.

THE QUANTITY FOR BACKFILL STRUCTURE TYPE B, BID ITEM 210.2100, IS CALCULATED BASED ON THE APPLICABLE FIGURES 12.6-1 AND 12.6-2 IN THE WISDOT BRIDGE MANUAL.



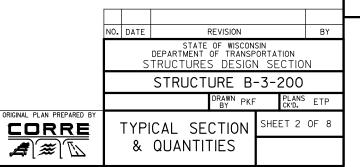
STEEL 'HP' PILING

STEEL 'HP' PILE MATERIAL SHALL BE A.S.T.M. DESIGNATION A36.

HP WELD DETAIL FLANGE SHOWN, WEB SIMILAR

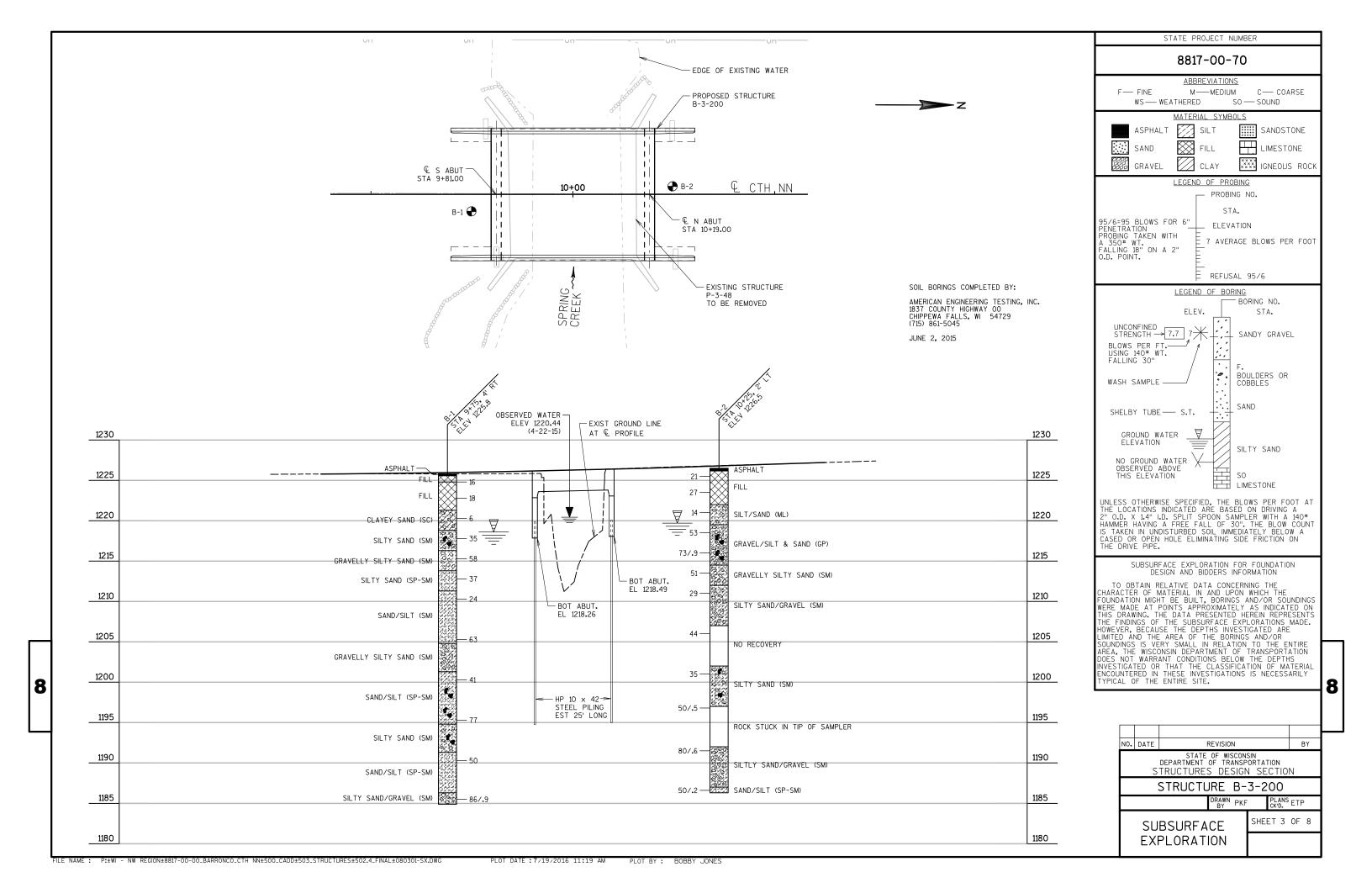
8

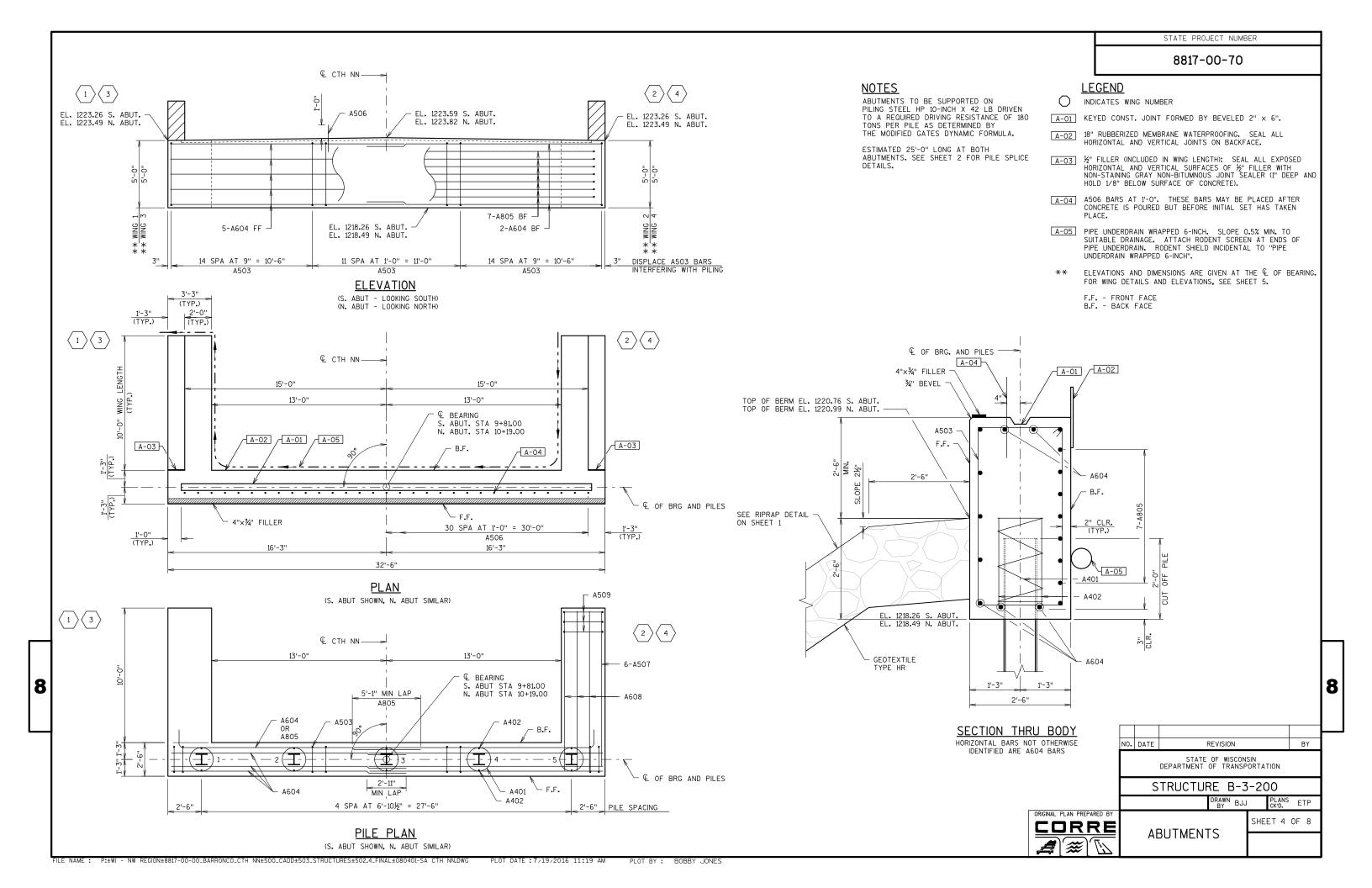
PILE SPLICE DETAILS

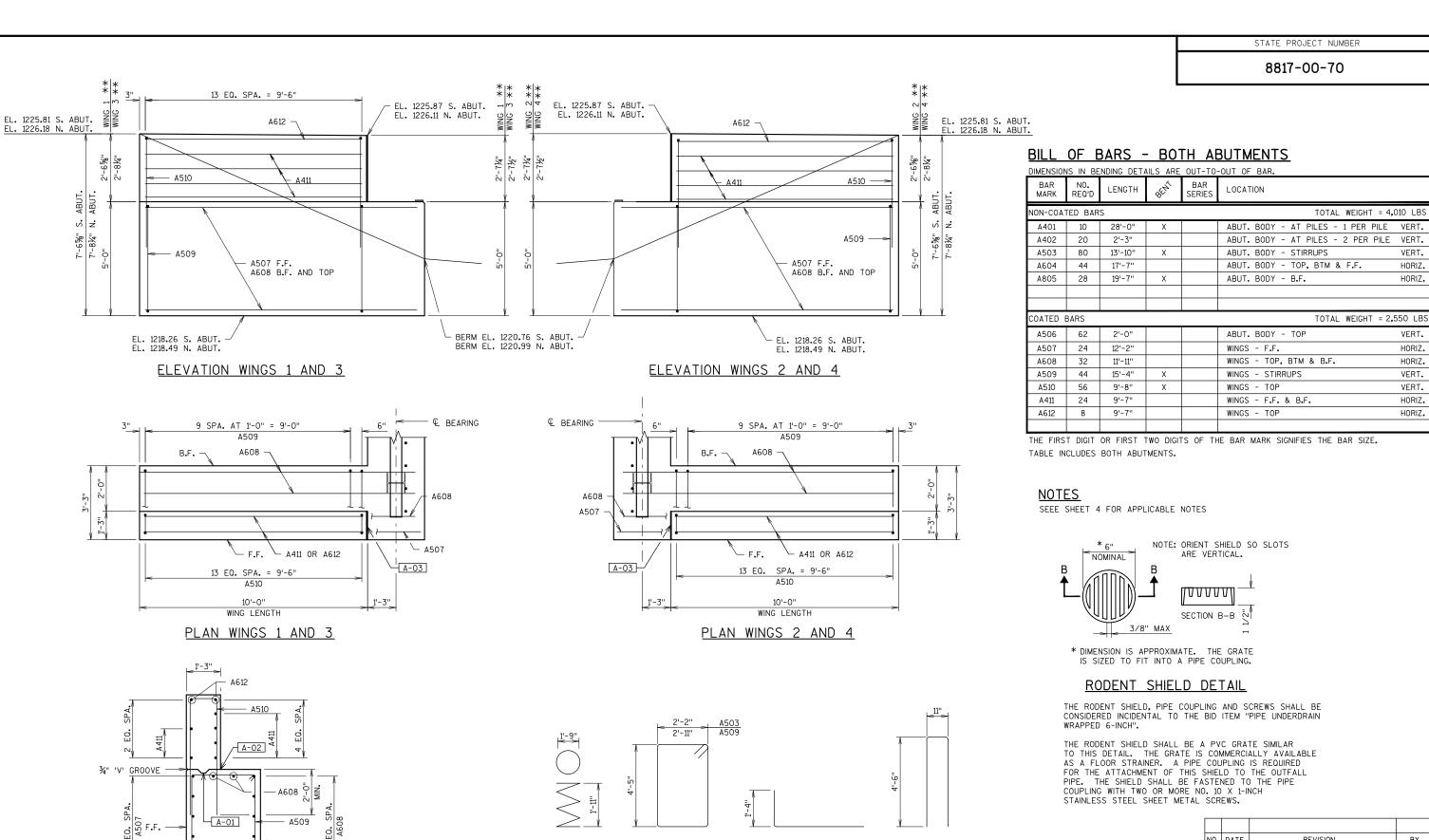


PLOT DATE : 7/19/2016 11:53 AM

8







NO. DATE REVISION BY

STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION

STRUCTURE B-3-200

DRAWN BJJ PLANS ETP

ORIGINAL PLAN PREPARED BY

ABUTMENT DETAILS

SHEET 5 OF 8

8

A401

A-05

3'-3"

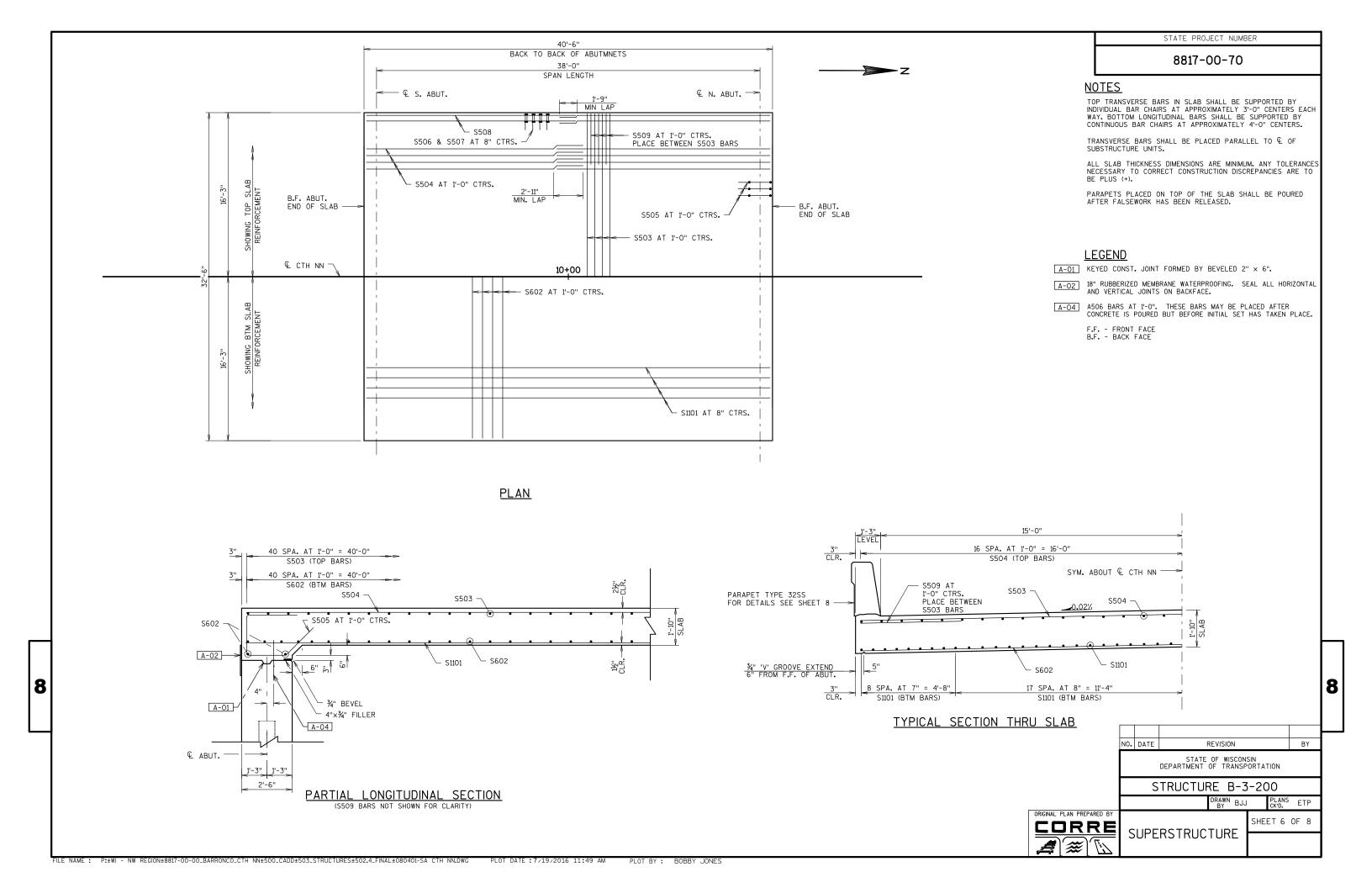
TYPICAL SECTION THRU WINGS

A503, A509

<u> 4805</u>

<u> A510</u>

8



STATE PROJECT NUMBER

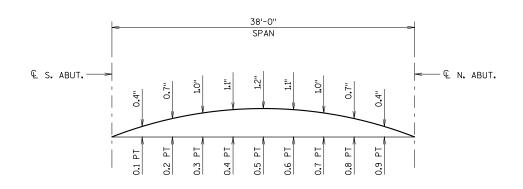
8817-00-70

BILL OF BARS - SUPERSTRUCTURE

DIMENSIONS IN BENDING DETAILS ARE OUT-TO-OUT OF BAR.

BAR MARK	NO. REQ'D	LENGTH	BENT	BAR SERIES	LOCATION	
COATED B	ARS			TOTAL WEIGHT =	18,620 LBS	
S1101	51	40'-2"			SLAB - BTM	LONGIT.
S602	45	32'-2"			SLAB - BTM	TRANS.
S503	41	32'-2"			SLAB - TOP	TRANS.
S504	66	21'-7"			SLAB - TOP	LONGIT.
S505	66	8'-2"	Х		SLAB - AT ABUTMENTS	VERT.
S506	122	4'-5"	Х		PARAPETS	VERT.
S507	122	5'-0"	X		PARAPETS	VERT.
S508	24	21'-0"			PARAPETS	LONGIT.
S509	80	5'-0"			SLAB - TOP	TRANS.

THE FIRST DIGIT OR FIRST TWO DIGITS OF THE BAR MARK SIGNIFIES THE BAR SIZE.



CAMBER DIAGRAM

PROVIDE CAMBER AS SHOWN ABOVE TO PROVIDE FOR DEAD LOAD DEFLECTION AND FUTURE CREEP. THIS DOES NOT INCLUDE ANY ALLOWANCE FOR FORM

PRIOR TO RELEASING SLAB FALSEWORK, TAKE TOP OF SLAB ELEVATIONS AT THE & OF ABUTMENTS AND AT 5/10 POINTS TO VERIFY CAMBER. TAKE ELEVATIONS ALONG GUTTER LINES AND CROWN OR \P .

TO DETERMINE FALSEWORK ELEVATION AT EDGE OF SLAB, CROWN OR REFERENCE LINE FOLLOW THIS PROCEDURE:

TOP OF SLAB ELEVATION AT FINAL GRADE

SLAB THICKNESS CAMBER LESS

FORM SETTLEMENT/DEFLECTION DUE TO PLACEMENT OF SLAB CONCRETE (TO BE COMPUTED BY THE CONTRACTOR)

EQUALS TOP OF SLAB FALSEWORK ELEVATION.

TOP OF DECK ELEVATIONS

LOCATION	€ OF S. ABUT.	0.1	0.2	0.3	0.4	0.5	0.6	0.7	0.8	0.9	€ OF N. ABUT.
WEST EDGE	1225.87	1225.89	1225.91	1225.94	1225.96	1225.98	1226.00	1226.03	1226.05	1226.07	1226.10
€ STRUCTURE	1226.17	1226.19	1226.21	1226.24	1226.26	1226.28	1226.30	1226.33	1226.35	1226.37	1226.40
EAST EDGE	1225.87	1225.89	1225.91	1225.94	1225.96	1225.98	1226.00	1226.03	1226.05	1226.07	1226.10

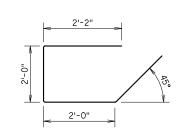
ELEVATIONS SHOWN ARE FINISHED DECK AND DO NOT INCLUDE ALLOWANCES OF DEAD LOAD DEFLECTION AND FUTURE CREEP.

SURVEY TOP OF SLAB ELEVATIONS

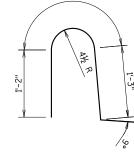
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SPAN POINT	S. ABUT.	0.5	N. ABUT.
WEST EDGE			
€ STRUCTURE			
EAST EDGE			

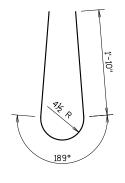
PRIOR TO RELEASING SLAB FALSEWORK, TAKE TOP OF SLAB ELEVATIONS AT THE \P OF ABUTMENTS AND AT 5/10 PTS. TO VERIFY CAMBER. TAKE ELEVATIONS ALONG GUTTER LINES AND CROWN OR R. RECORD THE ELEVATIONS IN THE ABOVE TABLE FOR THE "AS BUILT" PLANS.



S505



S506



S507

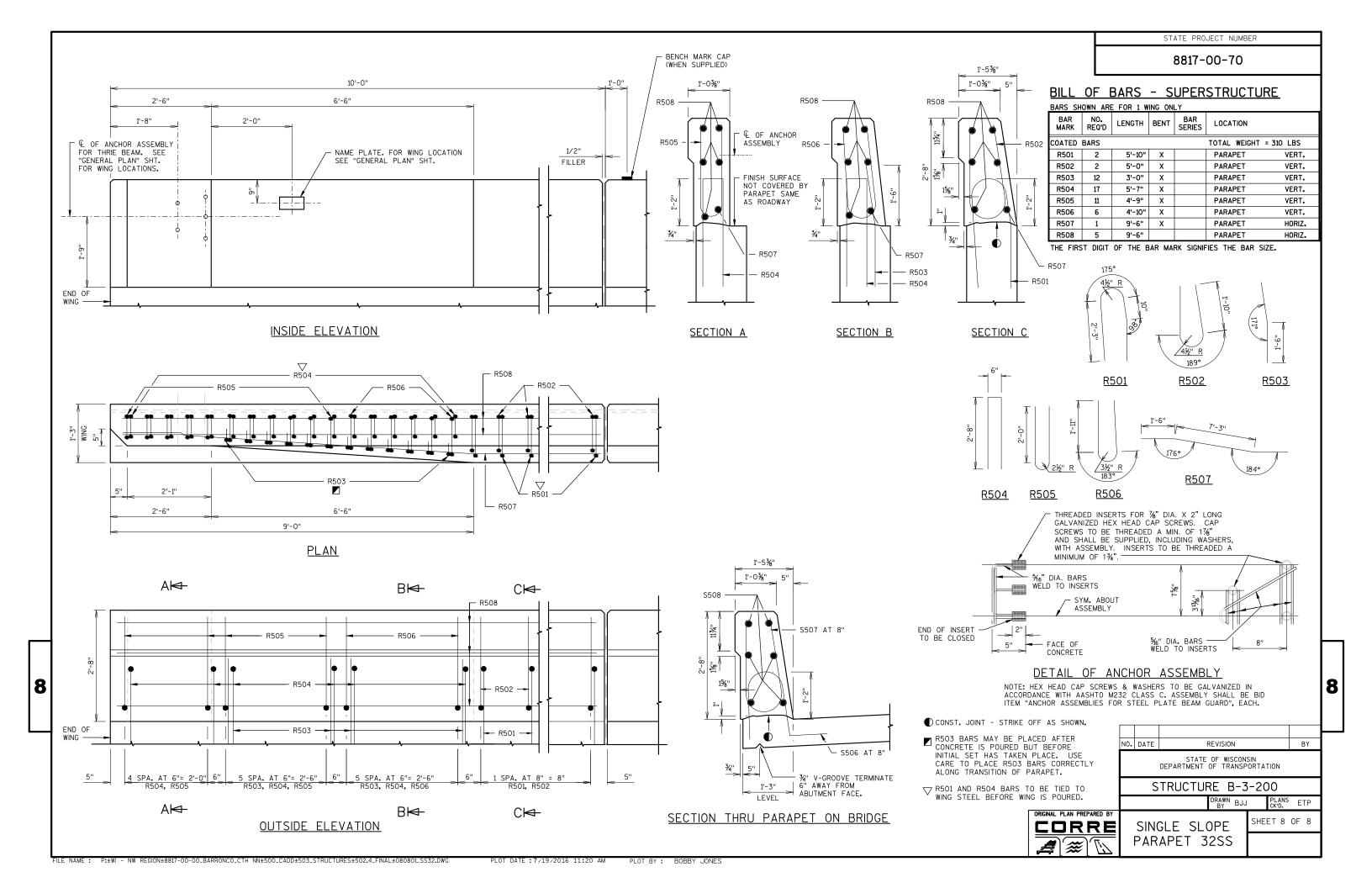
NO. DATE REVISION BY STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION STRUCTURE B-3-200 PLANS ETP

SHEET 7 OF 8

8

ORIGINAL PLAN PREPARED BY CORRE

DRAWN BJJ **SUPERSTRUCTURE** DETAILS



			AREA (SF)			Incremental Vol (CY) (Unadjusted)							
STATION	Distance	Cut	Salvaged/Unusable Pavement Material	FIII	Cut (1, 2)	Salvaged/Unusable Pavement Material	FIII	EBS (3)	Cu† 100	Expanded Fill 1.25 (6)	Expanded EBS Backfill 1.30 (5)		Mass Ordinate
08+75.01	0.00	40.69	5.50	1.66	0	0	0	0	0	0	0	0.00	0.00
09+00	24.99	42.52	5.50	0.00	39	5	1	0	39	1	0	0.00	32.45
09+25	25.00	41.79	5.50	0.00	39	5	0	0	78	1	0	0.00	66.39
09+50	25.00	42.37	5.50	0.00	39	5	0	0	116	1	0	0.00	100.26
09+79.75	29.75	22.73	5.50	26.94	36	6	15	0	152	20	0	0.00	111.52
STRU	CTURE B-3	-200											
10+20.35	0.00	36.29	5.50	22.06	0	0	0	0	152	20	0	0.00	111.52
10+50	29.65	41.14	5.50	0.85	43	6	13	0	195	35	0	0.00	132.27
10+75	25.00	39.58	5.50	1.64	37	5	1	0	232	37	0	0.00	163.10
11+00	25.00	37.31	5.50	0.00	36	5	1	0	268	38	0	0.00	192.66
11+25	25.00	36.66	5.50	0.56	34	5	0	0	302	38	0	0.00	221.49

1) Common Excavation is the sum of the Cut and EBS Excavation columns, Item number 205.0100 2) Salvaged/Unsuable Pavement Material is included in Cut.

302

3) EBS Excavation to be backfilled with Select Borrow material.
4) Reduced EBS In Fill - Excavated EBS material is usuable in Fills outside the 1:1 slope. EBS in Fill Reduction factor = 0.8

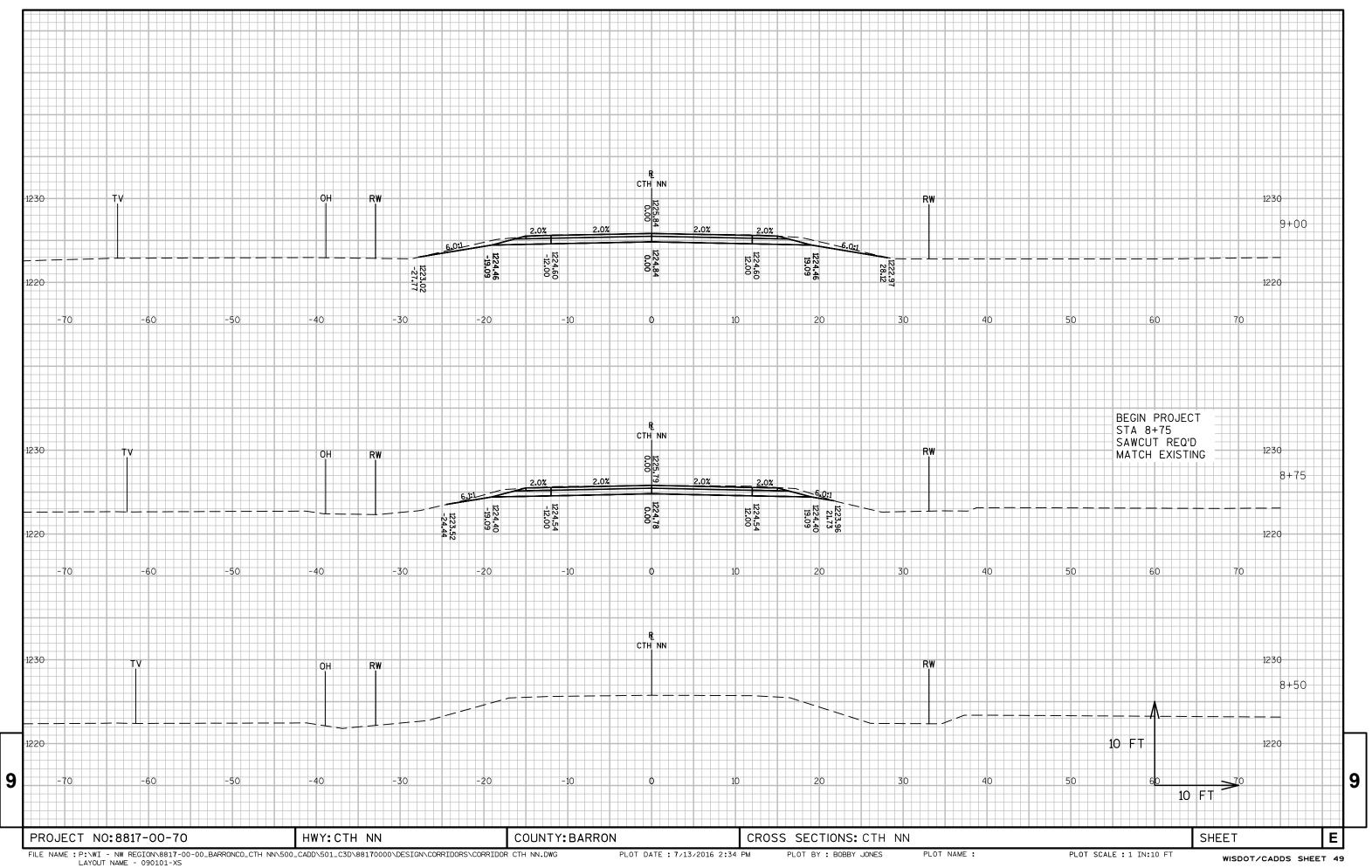
5) Expanded EBS Backfill - This is to be filled with Select Borrow material. EBS Backfill Factor = 1.3. Item number 208.1100
6) Expanded Fill. Factor = 1.25 Expanded Fill - Reduced EBS) * Fill Factor

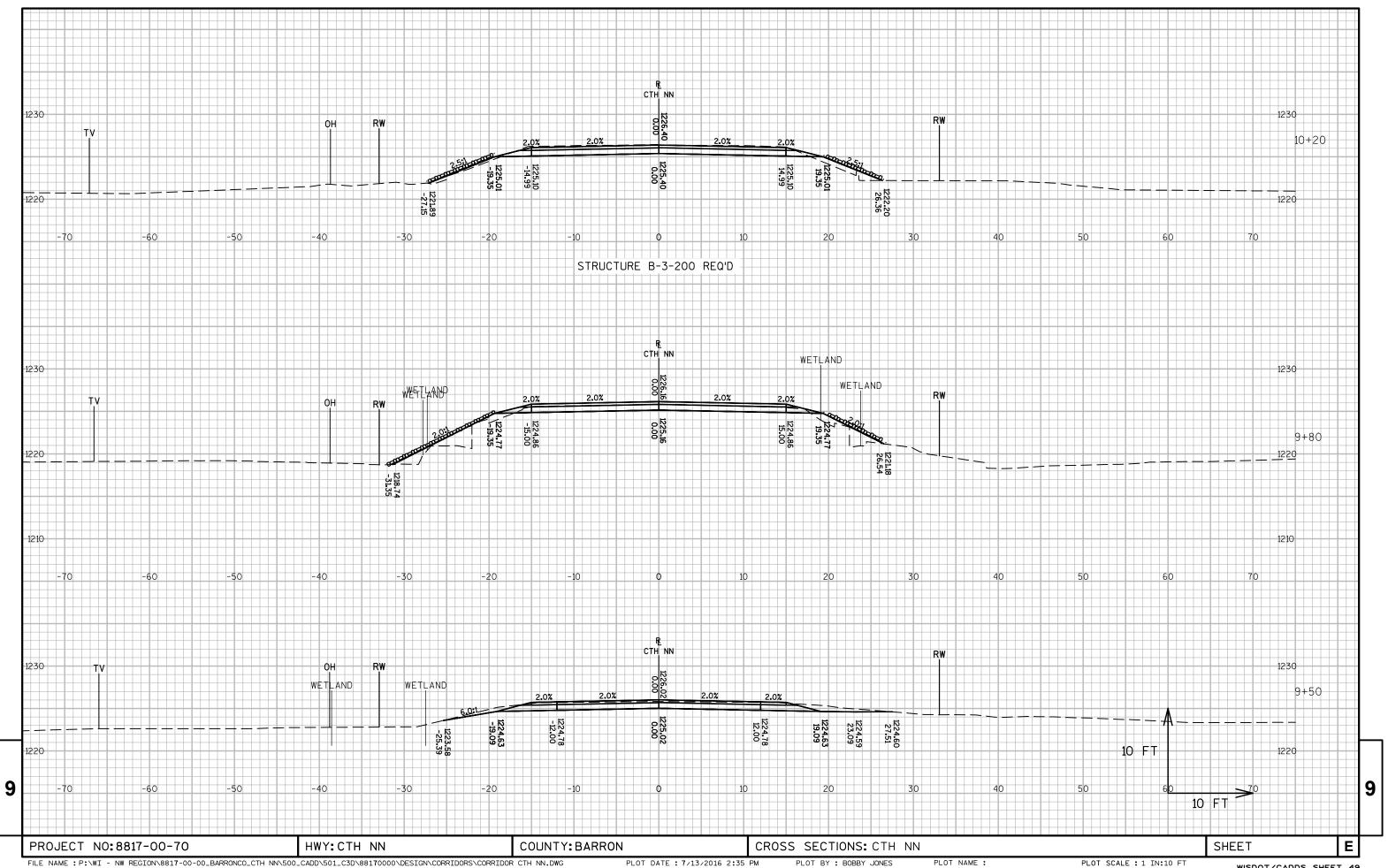
7) The Mass Ordinate + or - Qty calculated for the Division. Plus quantity indicates an excess of material within the Division. Minus indicates a shortage of material within the Division.

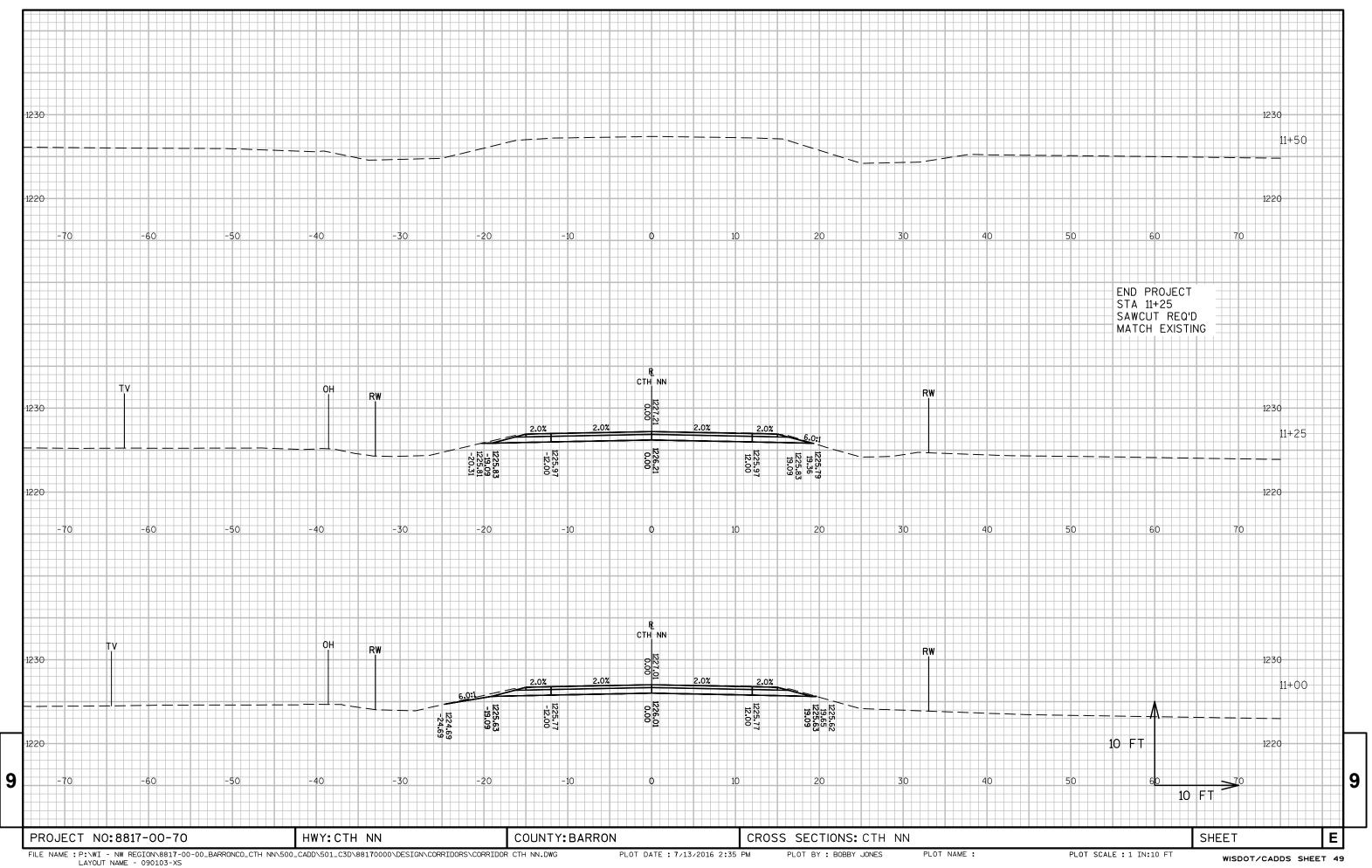
8) Use 260 CY of material from Division 1. Borrow Excavation Item number 208.0100

9

COUNTY: BARRON EARTHWORK TABULATIONS - CTH NN SHEET Ε PROJECT NO:8817-00-70 HWY: CTH NN







Notes



Wisconsin Department of Transportation

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FEB 2017

ORDER OF SHEETS

Section No. 3

Section No. 4

Section No. 6

Section No. 7

TOTAL SHEETS = 70



STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION

PLAN OF PROPOSED IMPROVEMENT

DALLAS - CHETEK

SIOUX CREEK BRIDGE B030201

CTH A

BARRON COUNTY

STATE PROJECT NUMBER 8833-00-70

PROJECT LOCATION

Estimate of Quantities

Right of Way Plat

Sign Plates

Section No. 5 Plan and Profile

Section No. 8 Structure Plans Section No. 9 Computer Earthwork Data

Section No. 9 Cross Sections

Miscellaneous Quantities

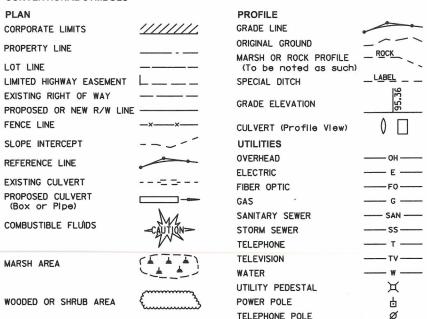
Standard Detail Drawinas

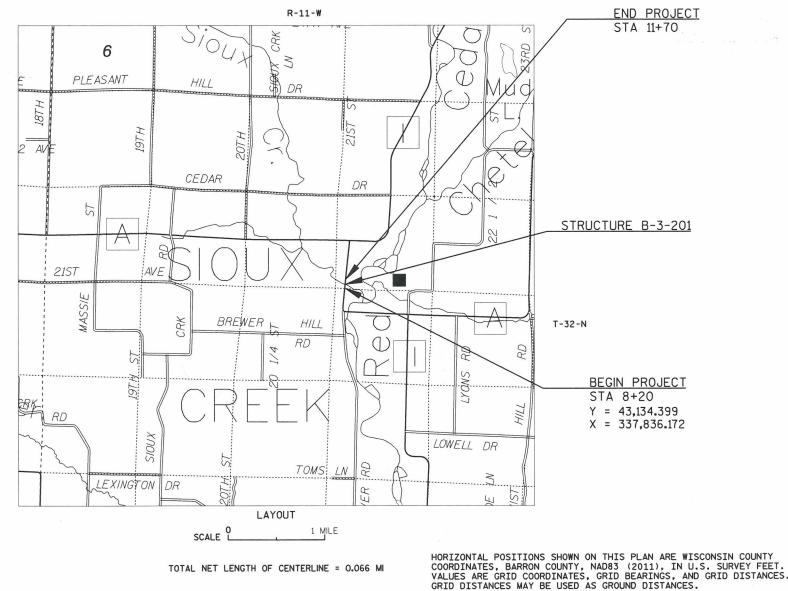
Typical Sections and Details (Includes Erosion Control Plans)

DESIGN DESIGNATION

A.A.D.T. (2017) A.A.D.T. (2037) = 1300 D.H.V. (2037) = 187 = 60/40 D.D. = 19.7% DESIGN SPEED = 55 MPH **ESALS** = 520,000

CONVENTIONAL SYMBOLS





ACCEPTED FOR BARRON COUNTY ORIGINAL PLANS PREPARED BY MEYER PRO E-38309-006 **ELK MOUND** STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION PREPARED BY CORRE, INC CORRE, INC. Designer KNIGHT E/A, INC. APPROVED FOR THE DEPARTMENT

FEDERAL PROJECT

CONTRACT

PROJECT

WISC 2017036

STATE PROJECT

8833-00-70

FILE NAME: P:\WI - NW REGION\8833-00-00_BARRONCO_CTH A\500_CADD\501_C3D\88330000\SHEETSPLAN\010101 TI.DWG

PLOT DATE : 7/11/2016 4:16 PM

PLOT BY : BOBBY JONES

UTILITY CONTACTS

* BARRON ELECTRIC COOPERATIVE - ELECTRIC DALLAS SLOAN 1434 N. STH 25 P.O. BOX 40 BARRON, WI 54812 (715) 537-3171 dsloon@barronelectric.com

* MOSAIC TELECOM AS
CHIBARDUN TELEPHONE COOOPERATIVE, INC. - COMMUNICATION LINE
PAT MC MANUS
401 S. 1ST STREET
P.O. BOX 664
CAMERON, WI 54822
(715) 458-5400
pmcmanus@mosaictelecom.com

* XCEL ENERGY - ELECTRIC DAWN SCHULTZ 1414 W HAMILTON AVENUE P.O. BOX 8 EAU CLAIRE, WI 54702 (715) 737-2482 Dawn.schultzexcelenergy.com

* DENOTES UTILITIES THAT ARE DIGGERS HOTLINE MEMBERS



DNR CONTACT

DNR NORTHERN REGION HQ AMY CRONK 810 W. MAPLE STREET SPOONER, WI 54801 (715) 635-4229 amy.cronk@wisconsin.gov

CONSULTANT CONTACT

CORRE, INC. 1802 WARDEN STREET EAU CLAIRE, WI 54703 KEVIN MEYER, P.E. 715-299-1894 kmeyer@correinc.com

GENERAL NOTES

ELEVATIONS SHOWN ON THE PLAN ARE REFERENCED TO NAVD 88.

WHEN THE QUANTITY OF BASE AGGREGATE OR ASPHALTIC SURFACE 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.

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

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

CURVE DATA IS BASED ON THE ARC DEFINITION.

DISTURBED AREAS WITHIN THE RIGHT-OF-WAY, EXCEPT THE AREAS WITHIN THE FINISHED SHOULDER POINTS, ARE TO BE 4-INCH SALVAGED TOPSOILED, FERTILIZED, AND SEEDED.

BEARINGS SHOWN ON THE PLANS ARE GRID BEARINGS TO THE NEAREST SECOND.

THE LOCATION OF ALL DRIVEWAYS WILL BE DETERMINED BY THE ENGINEER.

A VERTICAL SAWCUT SHALL BE MADE THROUGH EXISTING DRIVEWAYS AND PAVEMENTS AT REMOVAL LIMITS.

EXCAVATION BELOW SUBGRADE (EBS) IS NOT USED TO BALANCE YARDAGE AND IS NOT SHOWN ON THE CROSS SECTIONS BUT IS MEASURED AND PAID FOR AS COMMON EXCAVATION.

5.5-INCH ASPHALTIC SURFACE SHALL BE CONSTRUCTED UTILIZING MINIMUM OF TWO LIFTS.

UTILITY REFERENCE LINES ON THE CROSS SECTIONS ARE FOR HORIZONTAL REFERENCE ONLY.

EROSION CONTROL FEATURES AS SHOWN IN THE PLANS ARE AT SUGGESTED LOCATIONS, EXACT LOCATIONS WILL BE DETERMINED BY THE E.C.I.P AND APPROVED BY THE ENGINEER IN THE FIELD. SILT FENCE IS TO BE PLACED AS SHOWN ON THE PLANS OR AS DIRECTED BY THE ENGINEER, AND IN PLACE PRIOR TO REMOVALS.

RUNOFF COEFFICIENT TABLE

		HYDROLOGIC SOIL GROUP											
		А		В				C	;	D			
	SL0PE	RANGE	(PERCENT)	SLOPE RANGE (PERCENT)			SLOPE	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	.15	.24 .37	.33 .50	.19	.28 .41	.38 .56	
MEDIAN STRIP- TURF	.19	.20 .26	.24 .30	.19 .25	.22 .28	.26 .33	.20 .26	.23 .30	.30 .37	.20 .27	.25	.30 .40	
SIDE SLOPE- TURF			.25 .32			.27 .34			.28 .36			.30 .38	
PAVEMENT:	•	•				•	•			•		•	
ASPHALT						.7095							
CONCRETE						.8095							
BRICK	.7080												
DRIVES, WALKS	.7585												
ROOFS	.7595												
GRAVEL ROADS,	SHOULDE	RS				.4060							

TOTAL PROJECT AREA = 0.64 ACRES
TOTAL AREA EXPECTED TO BE DISTURBED BY CONSTRUCTION ACTIVITIES = 0.59 ACRES

PROJECT NO:8833-00-70

HWY: CTH A

COUNTY: BARRON

GENERAL NOTES: CTH A

PLOT NAME :

SHEET

E

NATURAL CROUND TYP 6' 22' 6' TYP O' VARIES VARIES VARIES AND NATURAL CROUND TRACE AMOUNTS OF GRAVEL AND SAND

TYPICAL EXISTING SECTION - CTH A

STA 8+20.00 - STA 9+73.75 STA 10+26.25 - STA 11+70.00

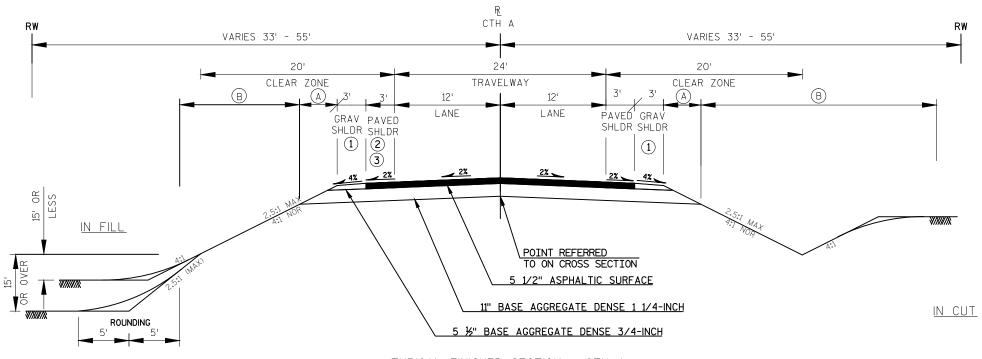
RESTORATIONS NOTES:

FOR MGS GUARDRAIL DETAILS SEE DETAILS ON CONSTRUCTION DETAIL SHEET

- A FERTILIZER TYPE B; SEEDING MIXTURE NO. 40 AND 60; SEEDING TEMPORARY
- B SALVAGED TOPSOIL; MULCHING; FERTILIZER TYPE B; SEEDING MIXTURE NO. 40 AND 60; SEEDING TEMPORARY

NOTES:

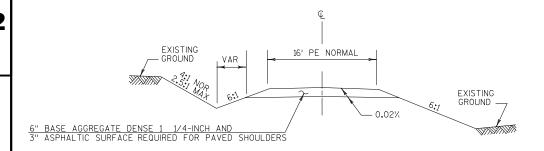
- 1 MGS GUARDRAIL 3 STA 8+69.38, RT TO STA 9+55.53, RT STA 10+45.27, RT TO STA 11+22.58, RT
 - STA 8+77.42, LT TO STA 9+55.53, LT STA 10+45.27, LT TO STA 11+30.61, LT
- 2 CONCRETE CURB AND GUTTER 6-INCH SLOPED 36-INCH TYPE D STA 8+71.30, LT TO STA 9+77.77, LT
- 3 DEPRESSED CONCRETE CURB AND GUTTER 6-INCH SLOPED 36-INCH TYPE D DRIVEWAY LIMITS DETERMINED BY THE ENGINEER IN THE FIELD.



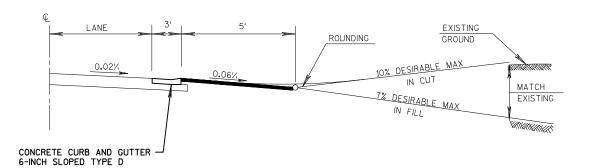
TYPICAL FINISHED SECTION - CTH A

STA 8+20.00 - STA 9+74.40 STA 10+25.60 - STA 11+70.00

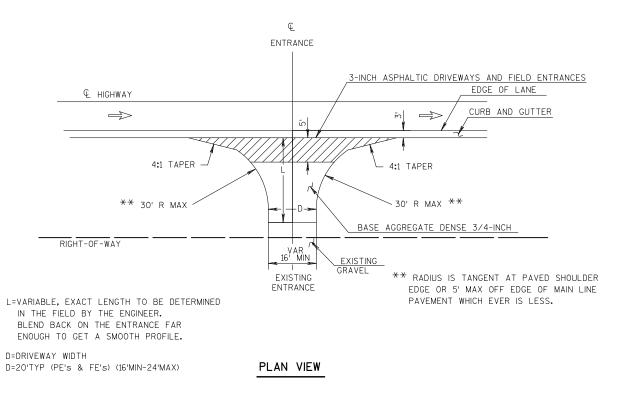
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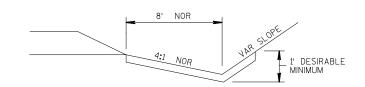
TYPICAL CROSS SECTION



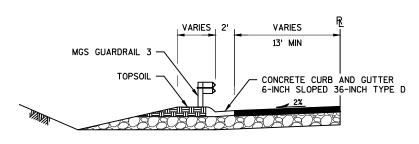
PROFILE VIEW



URBAN DRIVEWAY INTERSECTION DETAIL

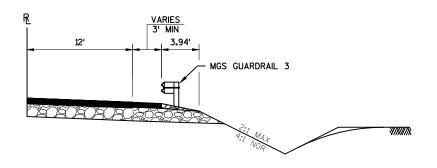


EROSION MAT DETAIL FOR DITCHES



FOR DETAILS SEE SDD: CONCRETE CURB, CONCRETE CURB AND GUTTER AND TIES CONCRETE CURB AND GUTTER 36" (6" SLOPED CURB) DRIVEWAY ENTRANCE CURB

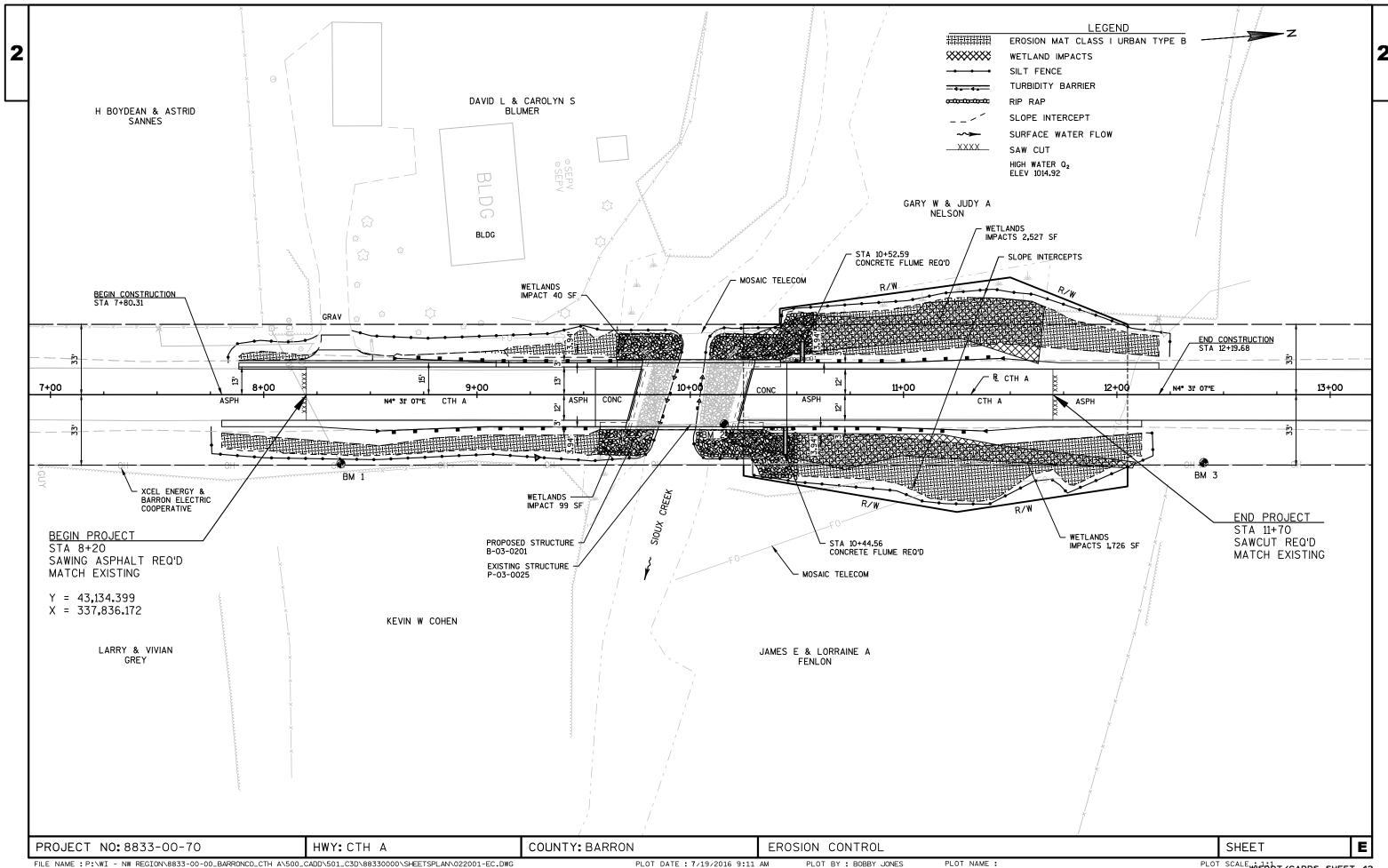
HALF TYPICAL FINISHED BEAMGUARD WITH CONCRETE CURB AND GUTTER 6-INCH SLOPED 36-INCH TYPE D CURB

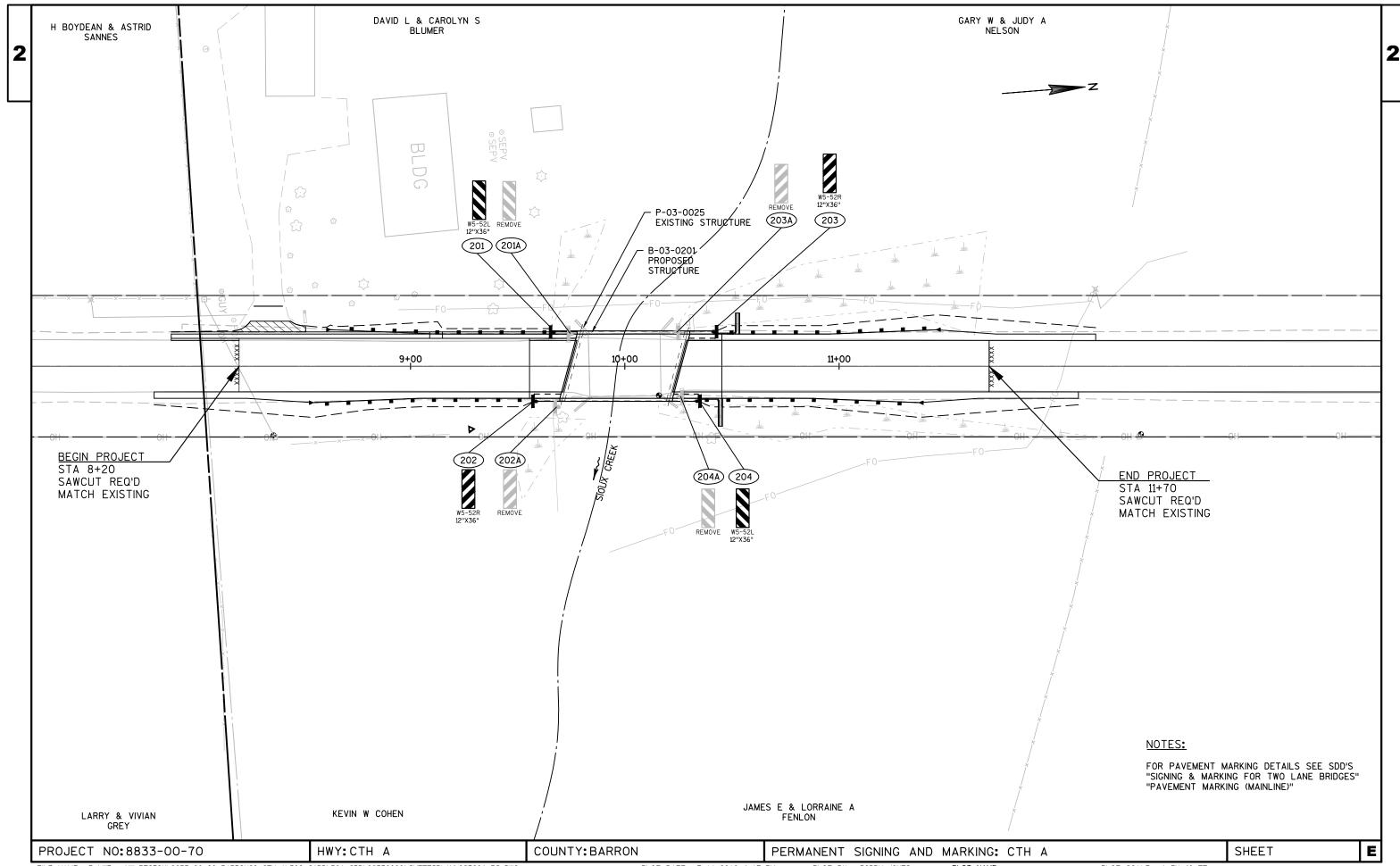


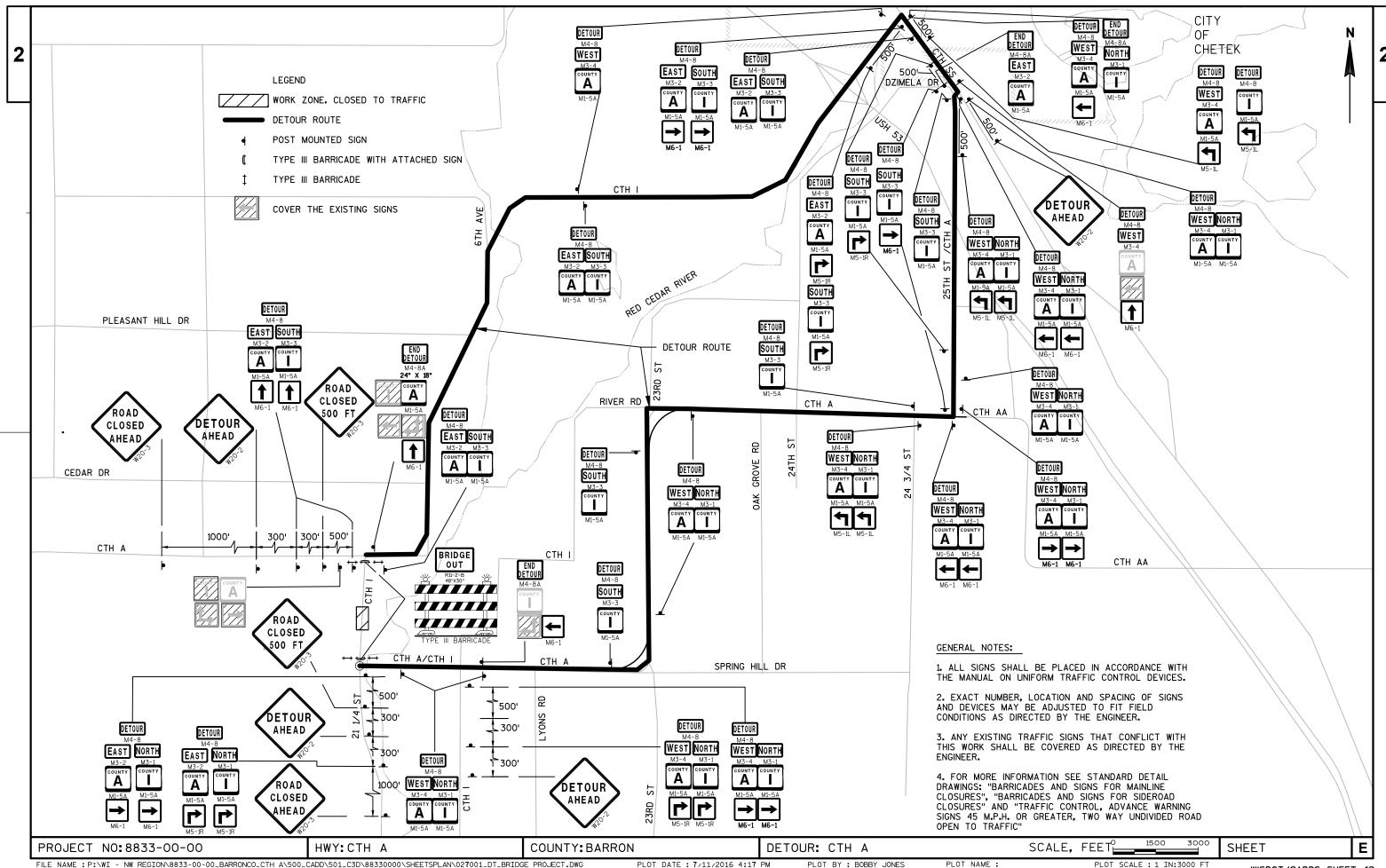
HALF TYPICAL FINISHED BEAMGUARD SECTION

PROJECT NO:8833-00-70 HWY: CTH A COUNTY: BARRON CONSTRUCTION DETAILS: CTH A SHEET PLOT BY : BOBBY JONES

E







FILE NAME : P:\WI - NW REGION\8833-00-00_BARRONCO_CTH A\500_CADD\501_C3D\88330000\SHEETSPLAN\027001_DT_BRIDGE PROJECT.DWG

PLOT SCALE : 1 IN:3000 FT

WISDOT/CADDS SHEET 42

Estimate Of Quantities By Plan Sets

Page	
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					8833-00-70
Line	Item	Item Description	Unit	Total	Qty
0010	201.0105	Clearing	STA	3.000	3.000
0020	201.0105	Grubbing	STA	3.000	3.000
0040	203.0600.S	9	LS	1.000	1.000
0050	205.0100	Excavation Common	CY	262.000	262.000
0070	206.1000	Excavation for Structures Bridges (structure) 02. B-03-0201	LS	1.000	1.000
0800	208.0100	Borrow	CY	532.000	532.000
0090	210.1500	Backfill Structure Type A	TON	340.000	340.000
0110	213.0100	Finishing Roadway (project) 02. 8833-00-70	EACH	1.000	1.000
0120	305.0110	Base Aggregate Dense 3/4-Inch	TON	99.000	99.000
0130	305.0120	Base Aggregate Dense 1 1/4-Inch	TON	1,068.000	1,068.000
0140	415.0120	Concrete Pavement 12-Inch	SY	21.000	21.000
0150	415.0410	Concrete Pavement Approach Slab	SY	104.000	104.000
0160	416.1010	Concrete Surface Drains	CY	4.600	4.600
0170	455.0605	Tack Coat	GAL	138.000	138.000
0180	465.0105	Asphaltic Surface	TON	311.000	311.000
0190	465.0120	Asphaltic Surface Driveways and Field Entrances	TON	2.000	2.000
0200	502.0100	Concrete Masonry Bridges	CY	235.000	235.000
0210	502.3200	Protective Surface Treatment	SY	175.000	175.000
0220	502.3210	Pigmented Surface Sealer	SY	64.000	64.000
0230	505.0400	Bar Steel Reinforcement HS Structures	LB	4,040.000	4,040.000
0240	505.0600	Bar Steel Reinforcement HS Coated Structures	LB	35,530.000	35,530.000
0250	516.0500	Rubberized Membrane Waterproofing	SY	22.000	22.000
0260	550.0020	Pre-Boring Rock or Consolidated Materials	LF	140.000	140.000
0270	550.1100	Piling Steel HP 10-Inch X 42 Lb	LF	120.000	120.000
0280	601.0555	Concrete Curb & Gutter 6-Inch Sloped 36-Inch Type A	LF	10.000	10.000
0290	601.0557	Concrete Curb & Gutter 6-Inch Sloped 36-Inch Type D	LF	165.000	165.000
0300	606.0300	Riprap Heavy	CY	345.000	345.000
0300	612.0406	Pipe Underdrain Wrapped 6-Inch	LF	160.000	160.000
0310	614.0150	• • • • • • • • • • • • • • • • • • • •	EACH	4.000	4.000
		Anchor Assemblies for Steel Plate Beam Guard			
0330	614.2300	MGS Guardrail 3	LF	50.000	50.000
0340	614.2500	MGS Characteril Torreiro L FAT	LF	156.000	156.000
0350	614.2610	MGS Guardrail Terminal EAT	EACH	4.000	4.000
0360	619.1000	Mobilization	EACH	0.500	0.500
0370	624.0100	Water	MGAL	40.000	40.000
0380	625.0500	Salvaged Topsoil	SY	1,620.000	1,620.000
0390	627.0200	Mulching	SY	624.000	624.000
0400	628.1504	Silt Fence	LF	880.000	880.000
0410	628.1520	Silt Fence Maintenance	LF	880.000	880.000

8833-00-70

					8833-00-70	
Line	Item	Item Description	Unit	Total	Qty	
0420	628.1905	Mobilizations Erosion Control	EACH	2.000	2.000	
0430	628.1910	Mobilizations Emergency Erosion Control	EACH	2.000	2.000	
0440	628.2008	Erosion Mat Urban Class I Type B	SY	1,041.000	1,041.000	
0450	628.6005	Turbidity Barriers	SY	76.000	76.000	
0460	629.0210	Fertilizer Type B	CWT	1.000	1.000	
0480	630.0140	Seeding Mixture No. 40	LB	17.000	17.000	
0490	630.0160	Seeding Mixture No. 60	LB	18.000	18.000	
0500	630.0200	Seeding Temporary	LB	43.000	43.000	
0510	634.0612	Posts Wood 4x6-Inch X 12-FT	EACH	4.000	4.000	
0520	637.2230	Signs Type II Reflective F	SF	12.000	12.000	
0530	638.2602	Removing Signs Type II	EACH	4.000	4.000	
0540	638.3000	Removing Small Sign Supports	EACH	4.000	4.000	
0550	642.5201	Field Office Type C	EACH	0.500	0.500	
0570	643.0100	Traffic Control (project) 02. 8833-00-70	EACH	1.000	1.000	
0580	643.0420	Traffic Control Barricades Type III	DAY	966.000	966.000	
0590	643.0705	Traffic Control Warning Lights Type A	DAY	1,104.000	1,104.000	
0600	643.0900	Traffic Control Signs	DAY	966.000	966.000	
0610	643.0920	Traffic Control Covering Signs Type II	EACH	2.000	2.000	
0630	643.2000	Traffic Control Detour (project) 02. 8833-00-70	EACH	1.000	1.000	
0640	643.3000	Traffic Control Detour Signs	DAY	13,524.000	13,524.000	
0650	645.0120	Geotextile Type HR	SY	425.000	425.000	
0660	646.0106	Pavement Marking Epoxy 4-Inch	LF	1,760.000	1,760.000	
0670	650.4500	Construction Staking Subgrade	LF	388.000	388.000	
0680	650.5000	Construction Staking Base	LF	388.000	388.000	
0690	650.5500	Construction Staking Curb Gutter and Curb & Gutter	LF	175.000	175.000	
0710	650.6500	Construction Staking Structure Layout (structure) 02. B-03-0201	LS	1.000	1.000	
0730	650.9910	Construction Staking Supplemental Control (project) 02. 8833-00-70	LS	1.000	1.000	
0740	650.9920	Construction Staking Slope Stakes	LF	388.000	388.000	
0750	690.0150	Sawing Asphalt	LF	44.000	44.000	
0760	715.0502	Incentive Strength Concrete Structures	DOL	966.000	966.000	
0770	ASP.1T0A	On-the-Job Training Apprentice at \$5.00/HR	HRS	1,200.000	1,200.000	
0780	ASP.1T0G	On-the-Job Training Graduate at \$5.00/HR	HRS	300.000	300.000	
0790	SPV.0035	Special 01. SELECT CRUSHED MATERIAL FOR TRAVEL CORRIDOR INTERSTITIAL SPACE	CY	8.000	8.000	

11/29/20	16 07:40:03		
Page	3	3	

Estimate Of Quantities By Plan Sets

3

8833-00-70

PLOT SCALE: 1:1

BASE AGGREGATE DENSE

Division	From/To Station	Location	Common Excavation (1)	(item # 205.0100)	Salvaged/Unus able Pavement Material (4)	Available Material (5)	Reduced EBS in Fill (6)	Expanded EBS Backfill (7)	Unexpanded Fill	Expanded Fill (8)	Mass Ordinate +/- (9)	Borrow
Division 1			Cut (2)	EBS Excavation (3)			Factor 0.80	Factor 1.30		Factor 1.25		(item #208.0100)
CTH A Mainline	7+80.31 TO 12+19.68		262	0	145	117	0	0	520	649	-532	532
Division 1 Subtotal			262	0	145	117	0	0	520	649	-532	532
Grand Total			262	0	145	117	0	0	520	649	-532	532
		Total C	Common Exc	262								

- 1) Common Excavation is the sum of the Cut and EBS Excavation columns. Item number 205.0100
- 2) Salvaged/Unsuable Pavement Material is included in Cut.
- 3) EBS Excavation to be backfilled with Select Borrow material.
- 4) Salvaged/Unusable Pavement Material
- 5) Available Material = Cut Salvaged/Unusuable Pavement Material
- 6) Reduced EBS in Fill Excavated EBS material is usuable in Fills outside the 1:1 slope. EBS in Fill Reduction factor = 0.8
- 7) Expanded EBS Backfill This is to be filled with Select Borrow material. EBS Backfill Factor = 1.3. Item number 208.1100
- 8) Expanded Fill. Factor = 1.25

CLEARING AND GRUBBING ITEMS

- Expanded Fill = (Unexpanded Fill Reduced EBS) * Fill Factor
- 9) The Mass Ordinate + or Qty calculated for the Division. Plus quantity indicates an excess of material within the Division. Minus indicates a shortage of material within the Division.

10) Use 117 CY of material from Division 1. Borrow Excavation item number 208.0100

	3 3	LOCATION				NI APPRO	ACH SLAB	CONCRETE SURFA	ACE DRAINS			DENSE	SE AGGREGATE DENSE 1 1/4-INCH
TOTALS 3		- LOCATION	415.0120						446 4040	STATION - STATION	LOCATION	TON	TON
	3 3		SY				415.0410	LOCATION	416.1010 CY	CATEGORY CODE 0010			
	3 3	CATEGORY CODE	0010			LOCATION	SY	CATEGORY CODE 0010		7+80 - 8+20	WIDENING RT		33
FINISHING ROAD	_	SW QUAD	3	CATEGOR	RY CODE 0010			NIM OUA D	0.0	7+80 - 9+58	SHOULDER RT	29	
FINISHING RUAIN	\A\ A\\	SE QUAD	5	9+56	- 9+74	CTH A	52	NW QUAD NE QUAD	2.2 2.4	7+88 - 8+20	WIDENING LT		10
THIOTHIO ROADI	WAY	NW QUAD	5	1	6 - 10+45	CTH A	52	- NE QUAD	2.4	8+20 - 9+74	MAINLINE		472
24	13.0100	NE QUA D	8					TOTAL	4.6	10+24 - 12+12 10+26 - 11+70	SHOULDER RT MAINLINE	31	
	EACH					TOTAL	. 104			10+26 - 11+70	SHOULDER LT	 29	441
CATEGORY CODE 0010		тот	AL 21							11+70 - 12+20	WIDENING LT		41
<u> </u>										11+70 - 12+12	WIDENING RT		31
ID 8833-00-70	1										UNDISTRIBUTED	10	40
TOTAL	1										TOTALS:	99	1,068
	<u>ASPHA</u>	LTIC ITEMS											
			465.0120					CONCRETE CURB AND	<u>GUTTER</u>			MOBILIZAT	ΓΙΟΝ
		55.0605 465.0105 TACK ASPHALTI COAT SURFACE	C DRIVEWAYS & ENTRANCE	FIELD			(601.0555 CONCRETE CURB & GUTTER 6-INCH SLOPED (601.0557 CONCRETE CUR GUTTER 6-INCH SL			CATEGORY	619.1000 EACH
	_OCATION	GAL TON	TON					36-INCH TYPE A	36-INCH TYPE		TER	0040	• 4
CATEGORY CODE 0010						- STATION	LOCATION	LF	LF	LF		0010 0020	0.1 0.4
7+80 - 8+20 WII	IDENING RT	2 4			CATEGORY	CODE 0010						0020	U. 4
7+88 - 8+20 WII	IDENING LT	1 2			7+80	- 9+55	LT		165	165		TOTALS	0.5
	MAINLINE	67 151	2			- 9+65	LT	10		10			
	MAINLINE	64 145											
	IDENING LT	2 5 2 4					TOTALS	10	165	175			
11+70 - 12+12 WI	/IDENING RT	138 311	2		*POUR DR	IVEWAY CUR	BHEAD FROM 7	+80 TO 9+13					
PROJECT NO: 8833	3-00-70		HWY: CTH	A		COUNTY	r: BARRO	N	MISCELLA	NEOUS QUANTITI	ES	SHEET NO:	

PLOT NAME : _____

	3

LANDSCAPING ITEMS

MGS GUARDRAIL ITEMS												
		614.2300 GUARDRAIL 3	614.2500 THRIE BEAM TRANSITION	614.2610 TERMINAL EAT								
STATION - STATION	LOCATION	LF	LF	EACH								
CATEGORY CODE 0010												
8+62 - 9+69	LT	12.5	39	1								
8+54 - 9+61	RT	12.5	39	1								
10+41 - 11+45	LT	12.5	39	1								
10+33 - 11+37	RT	12.5	39	1								
	TOTALS	50	156	4								

			625.0500 SALVAGED TOPSOIL	627.0200 MULCHING	628.2008 EROSION MAT URBAN CLASS I TYPE B	629.0210 FERTILIZER TYPE B	630.0140 SEED MIX NO. 40	630.0160 SEED MIX NO. 60	630.0200 SEED TEMPORARY
STATION	- STATION	N LOCATION	SY	SY	SY	CWT	LBS	LBS	LBS
ATEGORY C	ODE 0010								
7+88	- 9+80	LT	200	148	52	0.1	5		5
7+80	- 9+80	RT	270	138	132	0.2	7		7
10+20	- 12+20	LT	500	137	363	0.3		7	14
10+20	- 12+10	RT	450	51	399	0.3		6	12
UNDIST	RIBUTED		200	150	95	0.1	5	5	5
		TOTA	LS 1,620	624	1,041	1	17	18	43

	624.0100
LOCATION	MGAL
CATEGORY CODE 0010	
BASE COMPACTION	40
TOTALS	40

SILT FENCE

						MOBILIZATIONS		
				628.1504 SILT FENCE	628.1520 MAINTENANCE	628.1905 EROSION CONTROL	628.1910 EMERGENCY EROSION CONTROL	
STATION	۱ -	STATION	LOCATION	LF	LF	EACH	EACH	
CATEGORY	CC	DE 0010						
7+80	_	9+80	LT	210	210	1	1	
7+80	-	9+80	RT	210	210			
10+20	-	11+25	LT	230	230	1	1	
10+20	-	11+25	RT	230	230			
			TOTALS	880	880	2	2	

SIGNING ITEMS

STATION CATEGORY O	LOCATION CODE 0010	SIGN NUMBER	SIGN CODE	SIZE	634.0612 POSTS WOOD 4X6X12 EACH	637.2230 SIGNS TYPE II REFLECTIVE F SF
9+55	RT	202	W5-52R	12" X 36"	1	3.0
9+65	LT	201	W5-52L	12" X 36"	1	3.0
10+35	RT	204	W5-52L	12" X 36"	1	3.0
10+45	LT	203	W5-52R	12" X 36"	1	3.0
				TOTALS	4	12.0

TURBIDITY BARRIER

	TURBIDITY
	BARRIER
LOCATION	SY
CATEGORY CODE 0020	
SOUTH ABUTMENT	38
NORTH ABUTMENT	38
2 IATOT	76

REMOVING SIGN ITEMS

CTA TION	LOCATION	638.2602 REMOVING SIGNS TYPE II	638.3000 REMOVING SMALL SIGN SUPPORTS
STATION	LOCATION	EACH	EACH
CATEGORY CODE	= 0010		
9+75	RT	1	1
9+70	LT	1	1
10+25	RT	1	1
10+25	LT	1	1
	TOTALS	4	4

PAVEMENT MARKING ITEMS

		EP	6.0106 OXY NCH
		WHITE	YELLOW
STATION - STATION	LOCATION	LF	LF
CATEGORY CODE 0010			
7+80 - 12+20	CL		880
7+80 - 12+20	EDGELINE	880	
	TOTALS		880
		1,	760

PROJECT NO: 8833-00-70 HWY: CTH A COUNTY: BARRON MISCELLANEOUS QUANTITIES SHEET NO: E

PLOT DATE : _11/17/2016____

PLOT BY : CORRE INC.

PLOT NAME : _

TRAFFIC CONTROL ITEMS

	BARR	.0420 ICADES PE III	WA LIC	3.0705 RNING GHTS 'PE A		.0900 GNS	COV	.0920 ERING GNS PE II	TRAFFIC DET	
LOCATION	EACH	DAYS	EACH	DAYS	EACH	DAYS	EACH	CYCLES	EACH	DAYS
CATEGORY CODE 0010										
PROJECT	14	910	16	1,040	14	910	2	1	196	12,740
ТОТА	LS	910		1,040		910	2			12,740

SAWING PAVEMENT ITEMS

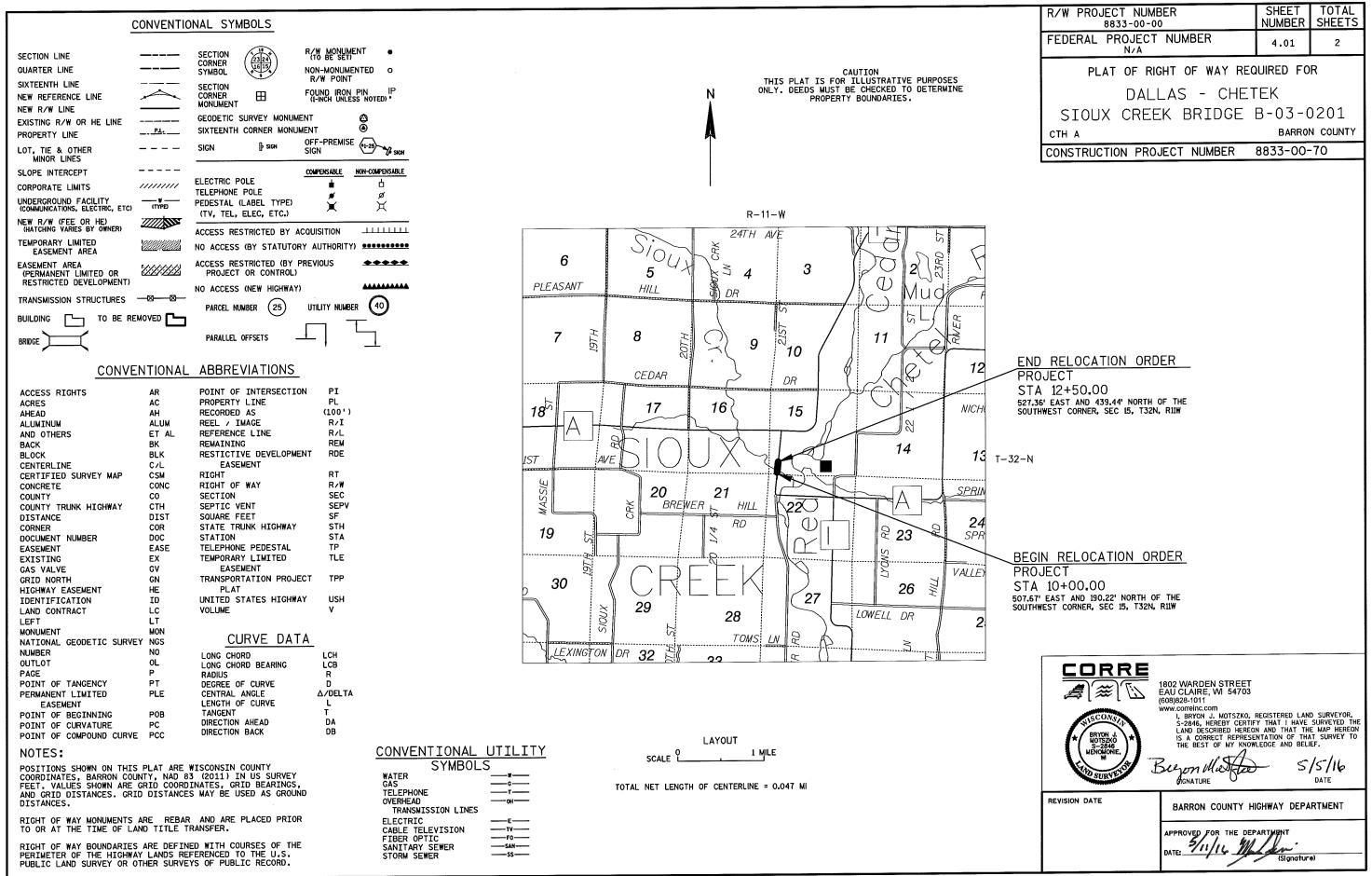
STATION	LOCATION	690.0150 ASPHALT LF
CATEGORY C	ODE 0010	
8+20	CTH A	22
11+70	CTH A	22
	PIATOT	44

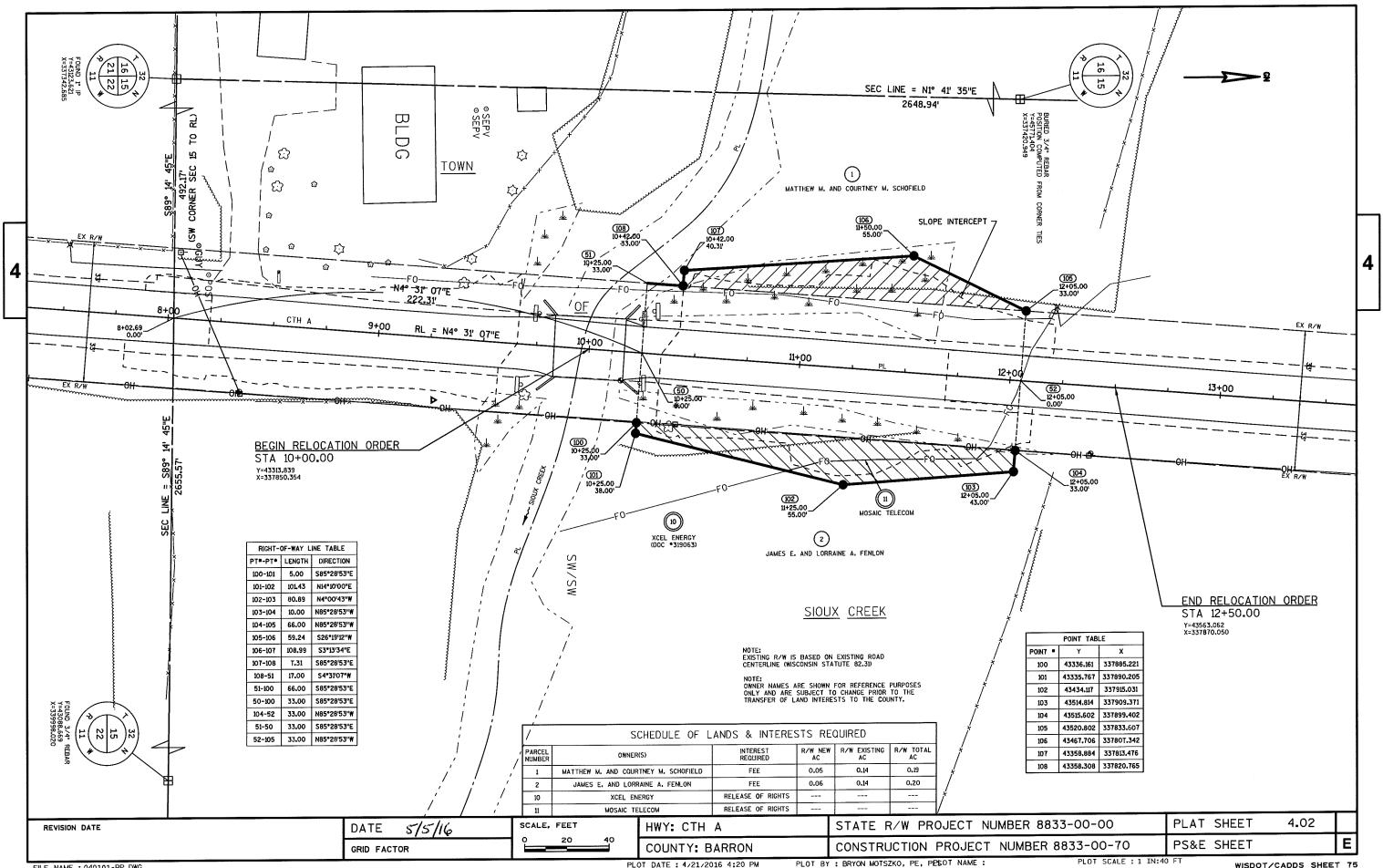
CONSTRUCTION STAKING ITEMS

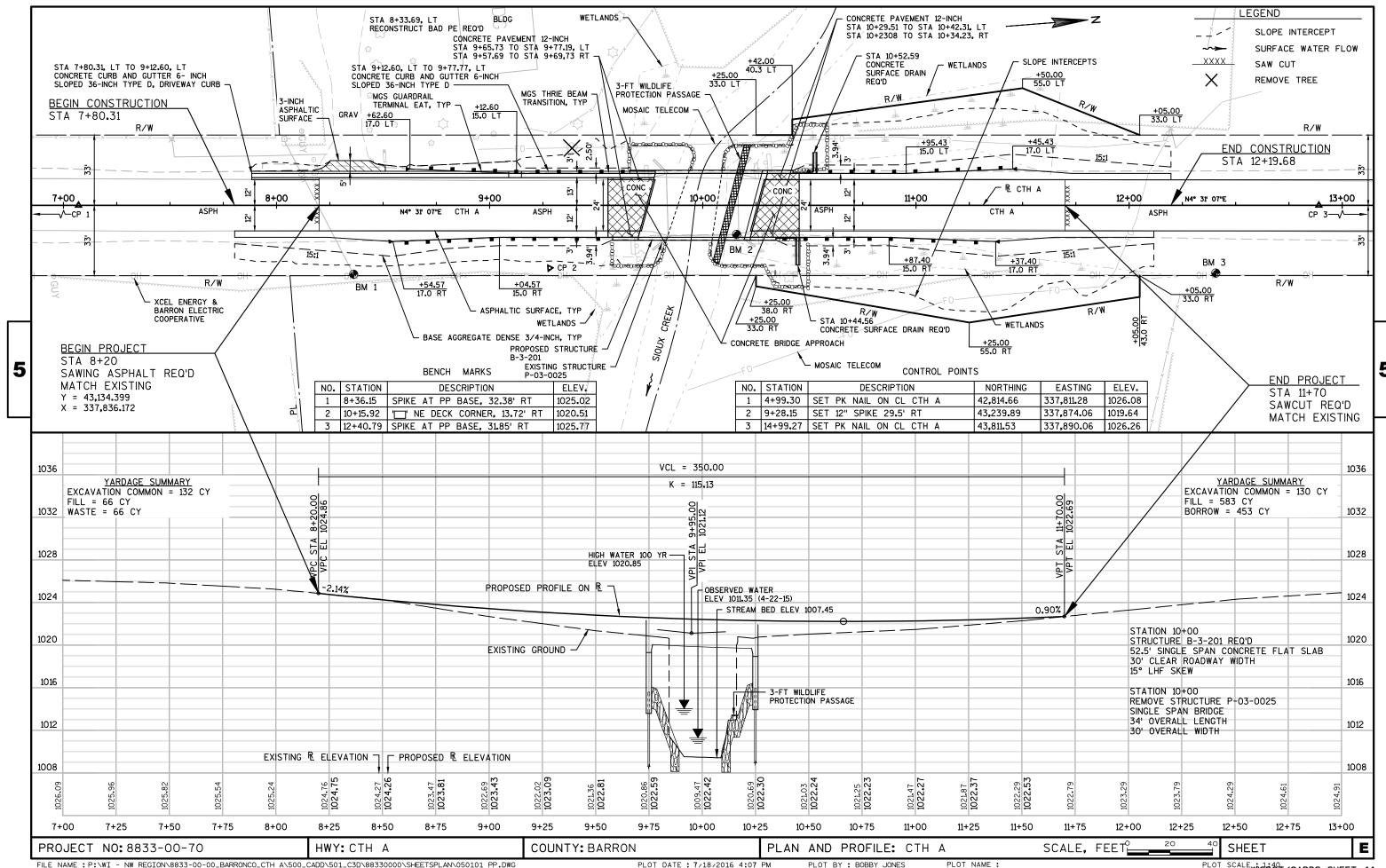
STATION - STATION	LOCATION	650.4500 STAKING SUBGRADE LF	650.5000 STAKING BASE LF	650.6500* STRUCTURE LAYOUT LS	650.9910 SUPPLEMENTAL CONTROL LS	650.9920 SLOPE STAKES LF
CATEGORY CODE 0010						
7+80 - 9+74	MAINLINE	194	194	1	1	194
10+26 - 12+20	MAINLINE	194	194			194
	TOTALS	388	388	1	1	388

* ALL STAKING ITEMS PART OF CATERGORY CODE 0010 OTHER THAN 650.6500 WHICH IS CATEGORY 0020

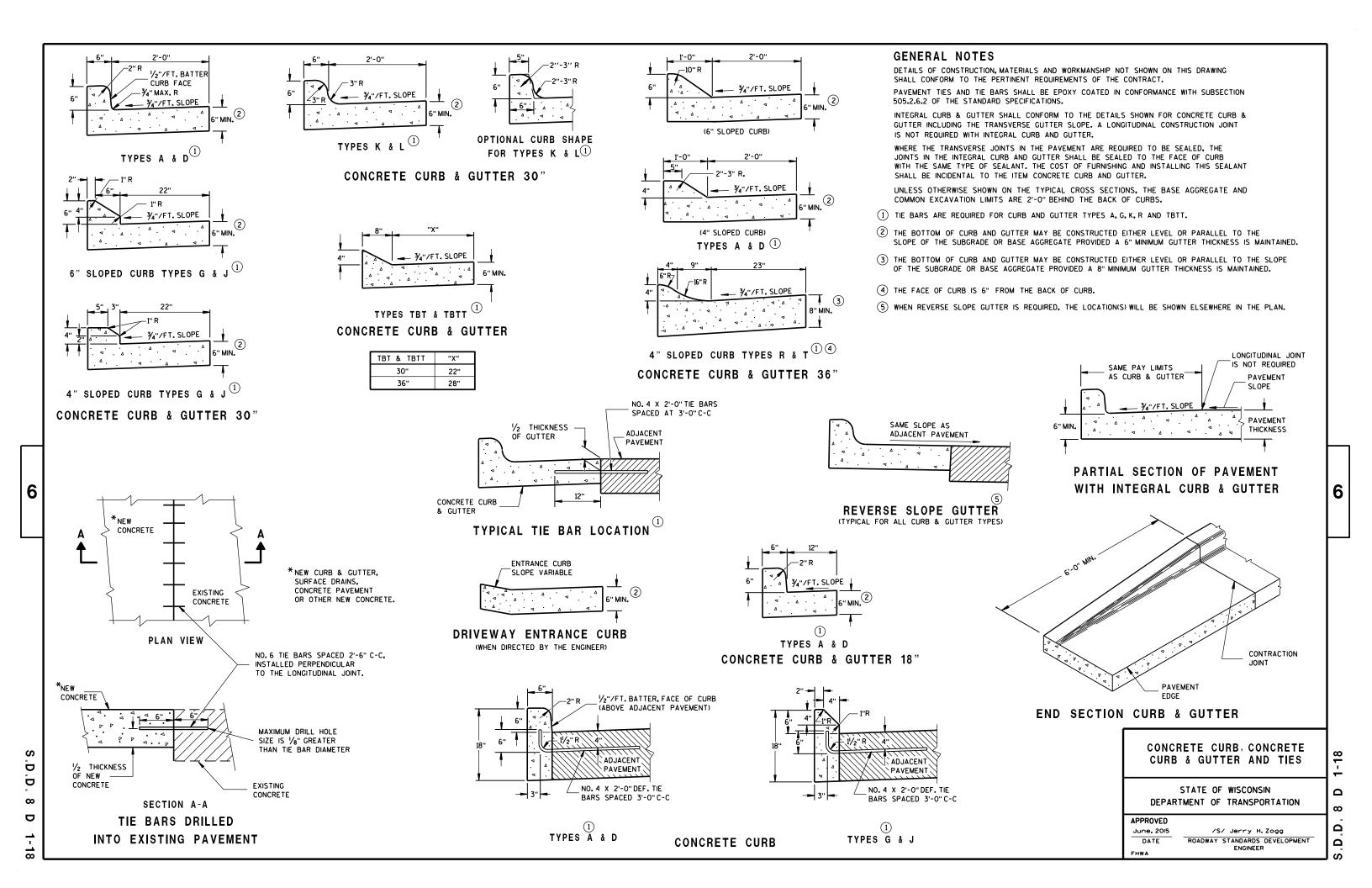
PROJECT NO: 8833-00-70 HWY: CTH A COUNTY: BARRON MISCELLANEOUS QUANTITIES SHEET NO: E

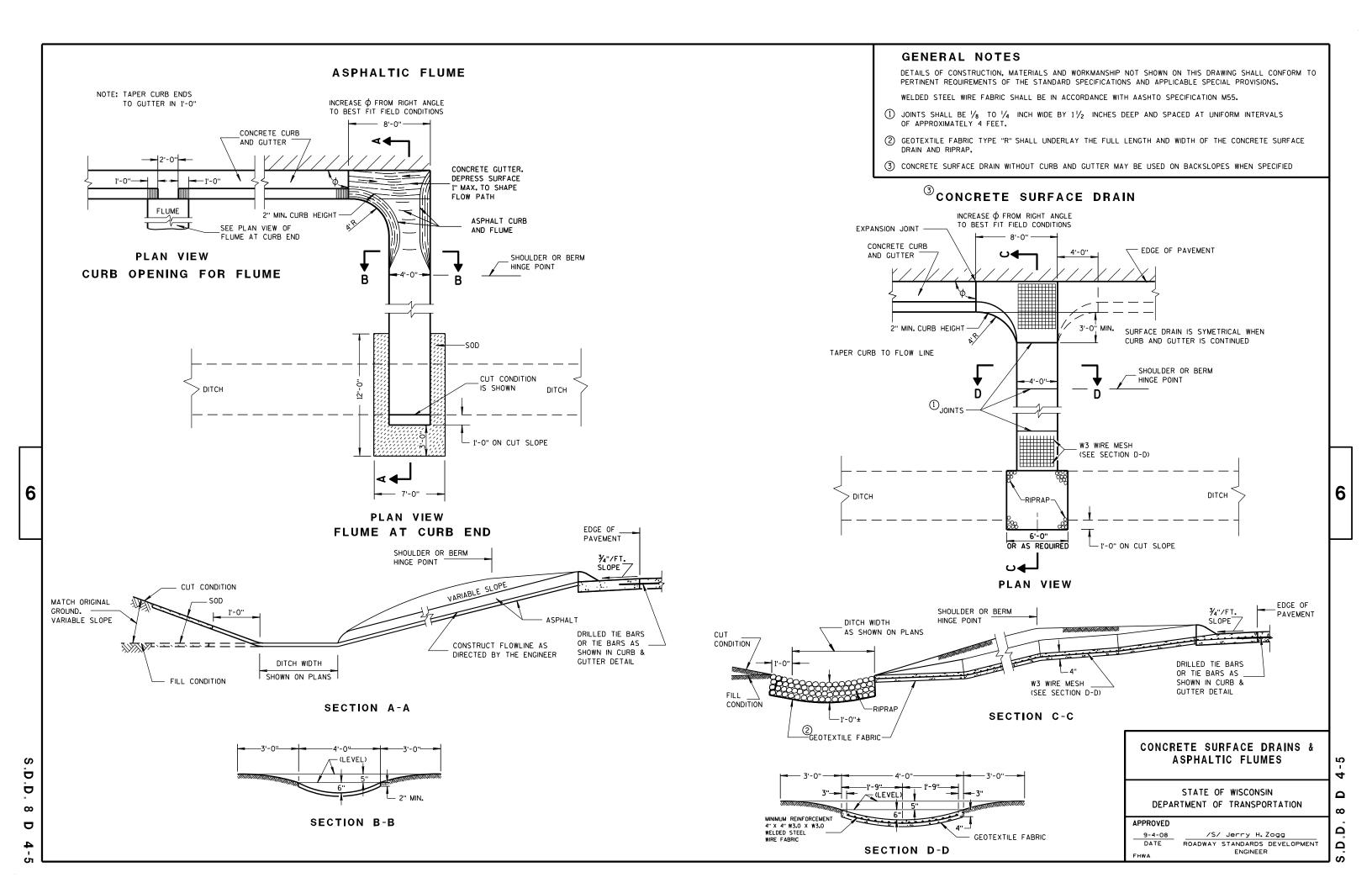






Standard Detail Drawing List





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)

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
4-29-05 /S/ Beth Cannestra

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

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D.D. 8 E 9

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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

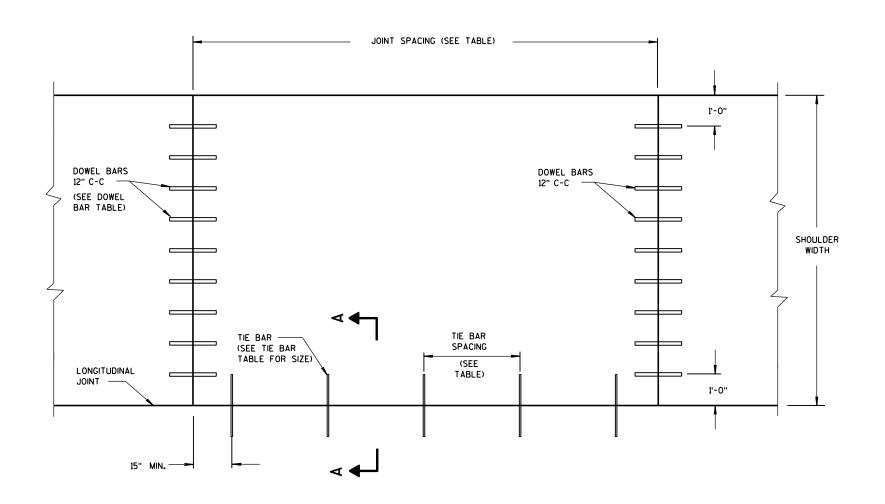
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3/26/IO /S/ Scot Becker

DATE CHIEF STRUCTURAL DEVELOPMENT ENGINEER

D.D. 12 A

3-10



PLAN VIEW CONCRETE PAVEMENT SHOULDER

TIE BAR TABLE

PAVEMENT DEPTH (D)	TIE BAR Size	TIE BAR LENGTH (L)	MAX. TIE BAR Spacing
< 10 1/2"	NO. 4	30"	36"
≥ 10 ½"	NO. 5	36"	36"
2 10 72	NO. 4 *	30"	24"**

* SUBSTITUTE BENT BARS AT LONGITUDINAL JOINTS WHEN EQUIPMENT LIMITATIONS DURING CONSTRUCTION WARRANT (e.g. AUXILIARY LANES OR TURN LANES)

** CONFORM TO 15" MINUMUM SPACING FROM TRANSVERSE JOINTS; SPACING BETWEEN TIE BARS WILL BE 30" AT TRANSVERSE JOINTS.

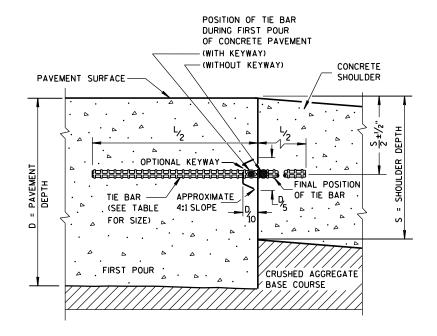
GENERAL NOTES

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.

TRANSVERSE JOINT DETAILS ARE SHOWN ELSEWHERE IN THE PLAN.

FINISH THE SHOULDER PAVEMENT CONFORMING TO SUBSECTION 415.3.8 OF THE STANDARD SPECIFICATIONS.

TIE BARS SHALL CONFORM TO SUBSECTION 505.2.4 OF THE STANDARD SPECIFICATIONS.



SECTION A-A LONGITUDINAL CONSTRUCTION JOINT

PAVEMENT DEPTH, DOWEL BAR SIZE AND JOINT SPACING TABLE

PAVEMENT DEPTH (D)	DOWEL BAR DIAMETER***	CONTRACTION JOINT SPACING
5 ½", 6", 6 ½"	NONE	12'
7", 7 ½"	1"	14'
8", 8 ½"	1 1/4"	15'
9", 9 ½"	1 1/4"	15'
10" & ABOVE	11/2"	15'

FOR DOWELED CONCRETE SHOULDERS WITH TRAPEZOIDAL CROSS SECTIONS, CHOSE THE APPROPRIATE DOWEL BAR DIAMETER BASED ON THE SMALLER PAVEMENT DEPTH (LIKELY THE OUTSIDE EDGE OF THE SHOULDER). IF USING BASKETS, USE BASKETS FOR THE AVERAGE THICKNESS OF THE CROSS SECTION.

CONCRETE	PAVEMENT	SHOULDERS

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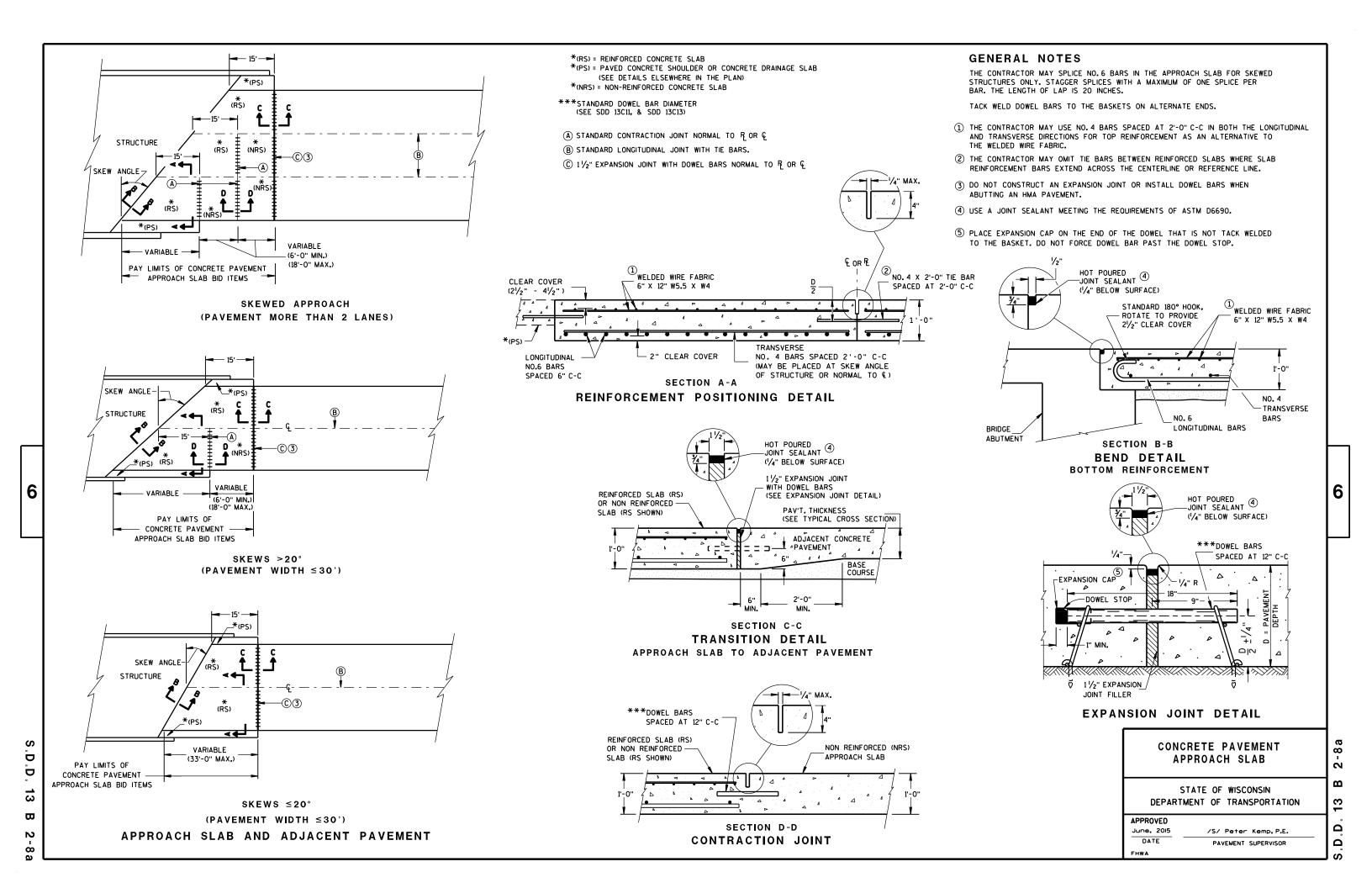
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STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION

APPROVED	
June, 2015	/S/ Peter Kemp, P.E.
DATE	PAVEMENT SUPERVISOR

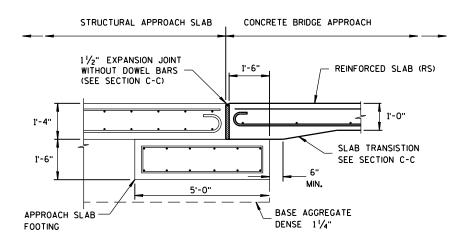


GENERAL NOTES

ALL PROJECTS THAT INVOLVE A STRUCTURAL APPROACH SLAB WILL ALSO HAVE A CONCRETE PAVEMENT APPROACH SLAB.

- 1 SEE BRIDGE PLAN.
- (2) CONFORM TO SHEET 13 B 2(A) FOR CONCRETE PAVEMENT APPROACH SLAB DETAILS.
- 3 DO NOT CONSTRUCT AN EXPANSION JOINT OR INSTALL DOWEL BARS WHEN ABUTTING AN HMA PAVEMENT.
- © 11/2" EXPANSION JOINT WITH DOWEL BARS NORMAL TO P OR &
- D 1 1/2" EXPANSION JOINT (NO DOWELS)

BRIDGE APPROACHES



SECTION E-E

FOOTING DETAIL

STRUCTURAL APPROACH SLAB TO CONCRETE BRIDGE APPROACH

STRUCTURAL APPROACH SLAB AND CONCRETE PAVEMENT APPROACH SLAB

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED		
June, 2015	/S/ Peter Kemp, P.E.	
DATE	PAVEMENT SUPERVISOR	

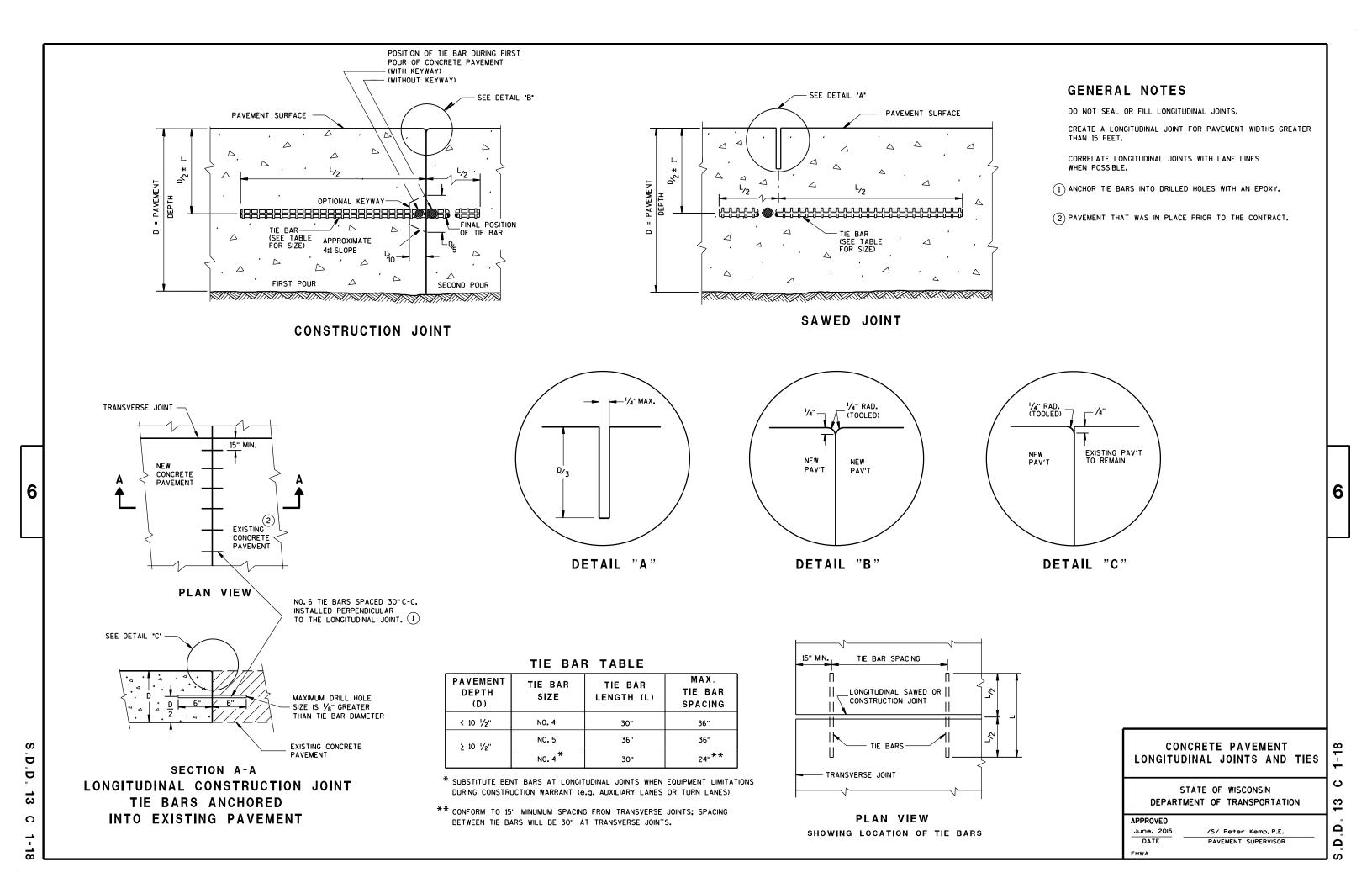
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.D.D. 13

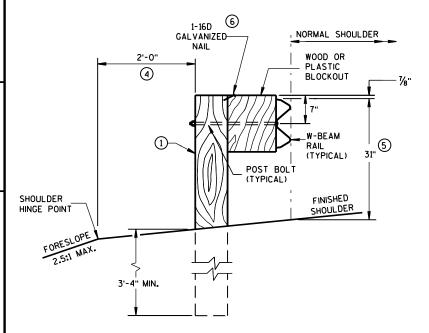
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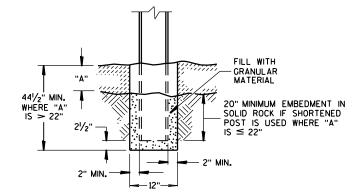
GENERAL NOTES

- (1) WOOD OR STEEL POSTS (W6X9 OR W6X8.5) MAY BE USED. DO NOT INTERMIX WOOD AND STEEL POSTS. INSTALL STEEL POSTS WITH HOLES ON APPROACHING TRAFFIC SIDE.
- 2 USE WOOD OR APPROVED PLASTIC BLOCKOUTS. WOOD BLOCKOUTS MAY BE CONSTRUCTED OUT OF TWO OR MORE WOOD BLOCKOUTS. SEE ALTERNATE WOOD BLOCKOUT DETAIL. DIMENSIONS OF APPROVED PLASTIC BLOCKOUTS MAY VARY.
- (3) IF ROCK IS ENCOUNTERED DURING EXCAVATION, PROVIDE A HOLE 12 INCHES IN DIAMETER EXTENDING 20 INCHES DEEP INTO THE ROCK. PLACE APPROXIMATELY 21/2 INCHES OF GRANULAR MATERIAL IN THE BOTTOM OF THE HOLE. CUT THE POSTS THE TO LENGTH AMD INSTALL. BACKFILL WITH EXCAVATED MATERIAL AND COMPACT. BACKFILL IS TO BE FREE OF LARGE ROCKS.
- (4) WHEN THE DISTANCE FROM BACK OF POST TO SHOULDER HINGE POINT IS LESS THAN 2 FEET INSTALL LONGER POST AT HALF POST SPACING (K).
- (5) FOR NEW MGS INSTALLATION TOP OF W-BEAM RAIL TOLERANCE IS ± 1". FOR EXISTING MGS INSTALLATION TOP OF W-BEAM IS BETWEEN 273/4" TO 32".
- (6) WHEN USING STEEL POST AND WOOD BLOCKOUTS INSTALL FOUR 16D GALVANIZED NAILS. INSTALL NAILS AT THE BACK CORNERS OF THE BLOCK AND BEND THE NAILS OVER THE FLANGE OF THE STEEL POST.

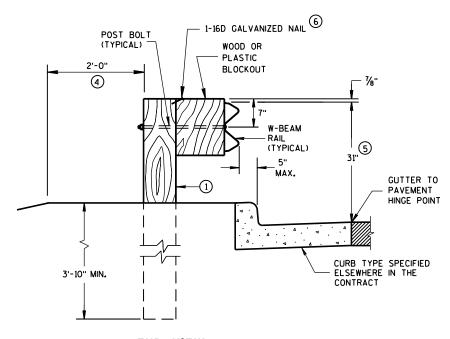


END VIEW

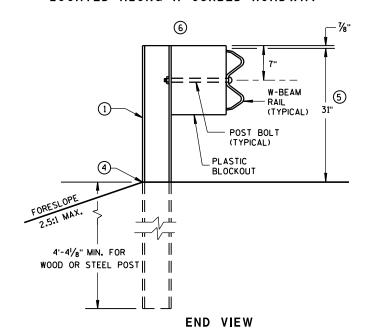
LOCATED ALONG A ROADWAY SHOULDER STANDARD INSTALLATION



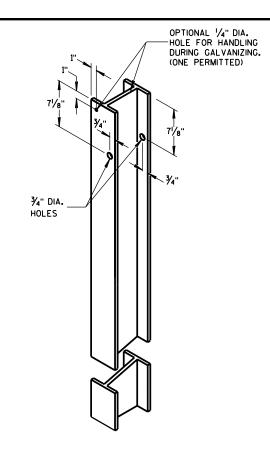
SETTING STEEL OR WOOD POST IN ROCK $^{\scriptsize{\textcircled{3}}}$



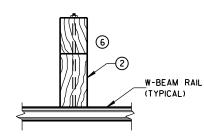
END VIEW
LOCATED ALONG A CURBED ROADWAY



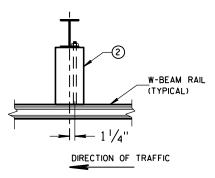
MGS LONGER POST AT HALFPOST SPACING W BEAM (K)



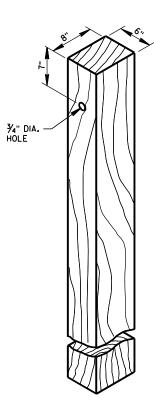
STEEL POST & HOLE PUNCHING DETAIL (w6X9)



PLAN VIEW
WOOD POST,
BLOCKOUT & BEAM



PLAN VIEW
STEEL POST,
PLASTIC BLOCKOUT & BEAM



WOOD POST (6" X 8") NOMINAL $^{\scriptsize \textcircled{1}}$



WOOD OR PLASTIC BLOCKOUT

MIDWEST GUARDRAIL SYSTEM (MGS) GUARDRAIL

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

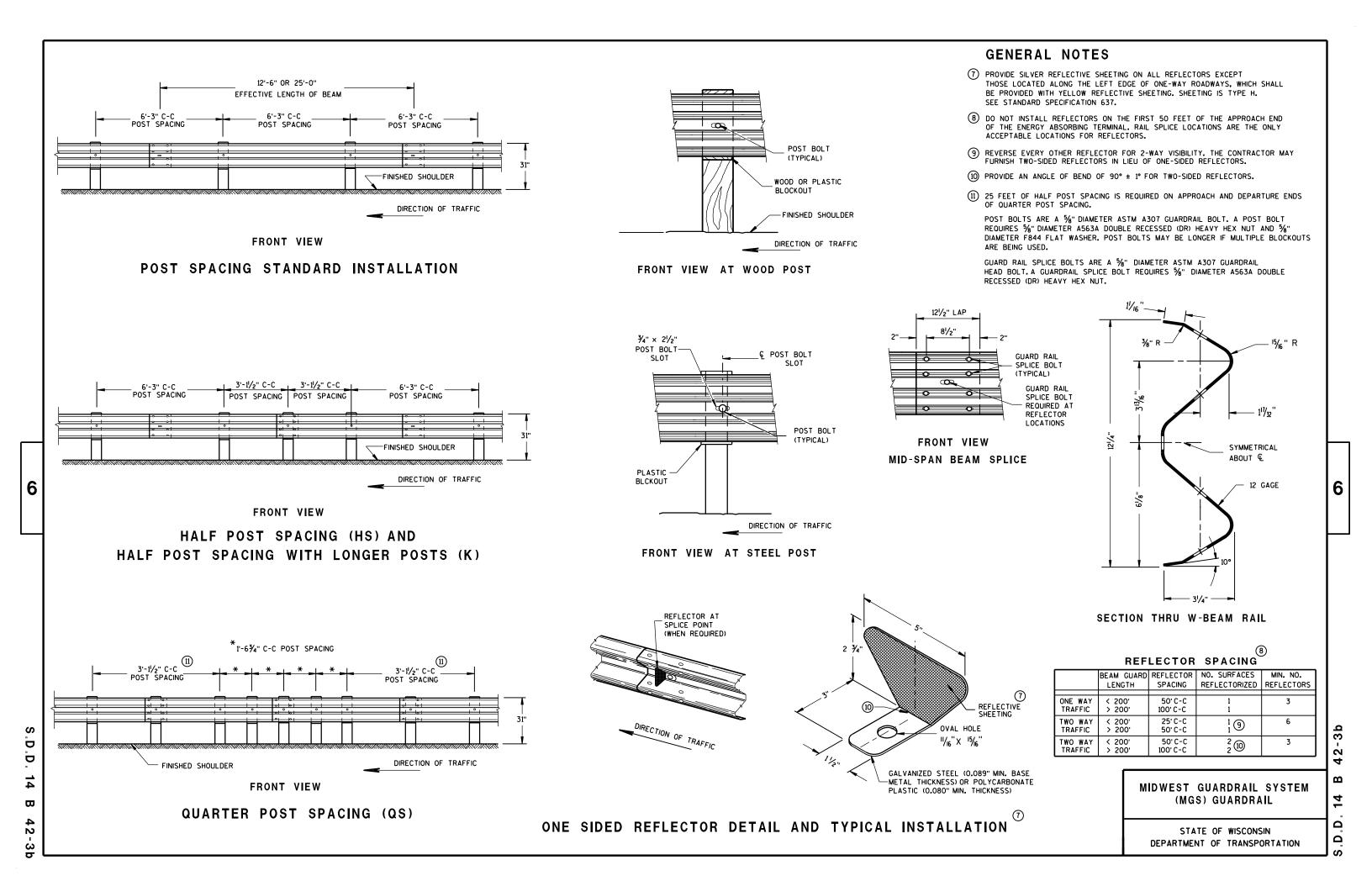
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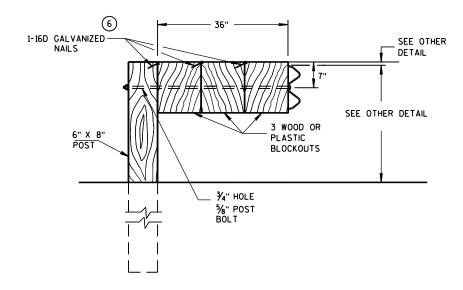
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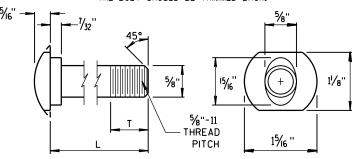


DETAIL FOR 36" BLOCKOUT DEPTH

NOTES: UNDER SPECIAL CIRCUMSTANCES, SUCH AS AVOIDING OBSTACLES THAT ARE NOT RELOCATED, IT IS ACCEPTABLE TO INSTALL ADDITIONAL BLOCKOUTS TO OBTAIN UP TO 36" DEPTH FOR ONE OR TWO POSTS IN A SECTION OF GUARDRAIL.

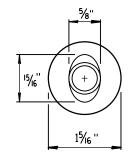
> DO NOT USE 16" OR 36" BLOCKOUTS IF IT CAUSES THE POST TO BE DRIVEN BEYOND SHOULDER HINGE POINT OR CAUSES A FIXED OBJECT TO BE WITHIN THE DEFLECTION DISTANCE OF THE BARRIER.

NOTE: 1. ALL FILLETS SHALL HAVE A MINIMUM RADIUS OF $\frac{1}{16}$ ". 2. IF THE BOLT EXTENDS MORE THAN 1/4" FROM THE NUT THE BOLT SHOULD BE TRIMMED BACK.

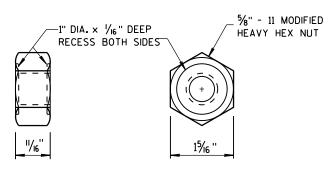


POST BOLT TABLE

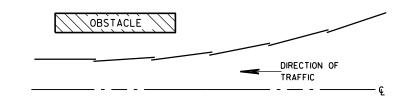
11/8"
437
13/4"
4"
41/16"
4"
41/16"
4"



ALTERNATE BOLT HEAD

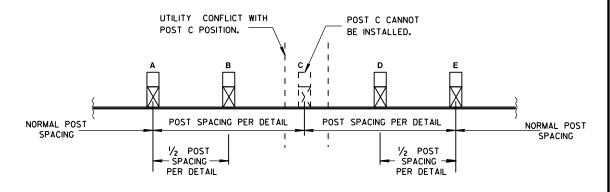


POST BOLT AND RECESS NUT

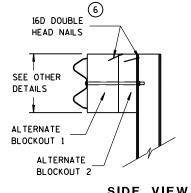


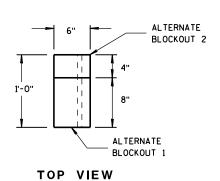
PLAN VIEW

BEAM LAPPING DETAIL



POST DRIVING FOR CONTINUOUS UNDERGROUND OBSTRUCTION





SIDE VIEW

ALTERNATE WOOD **BLOCKOUT DETAIL**

MIDWEST GUARDRAIL SYSTEM (MGS) GUARDRAIL

STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION

APPROVED

June 2014 /S/ Jerry H. Zogg ROADWAY STANDARDS DEVELOPMENT ENGINEER FHWA

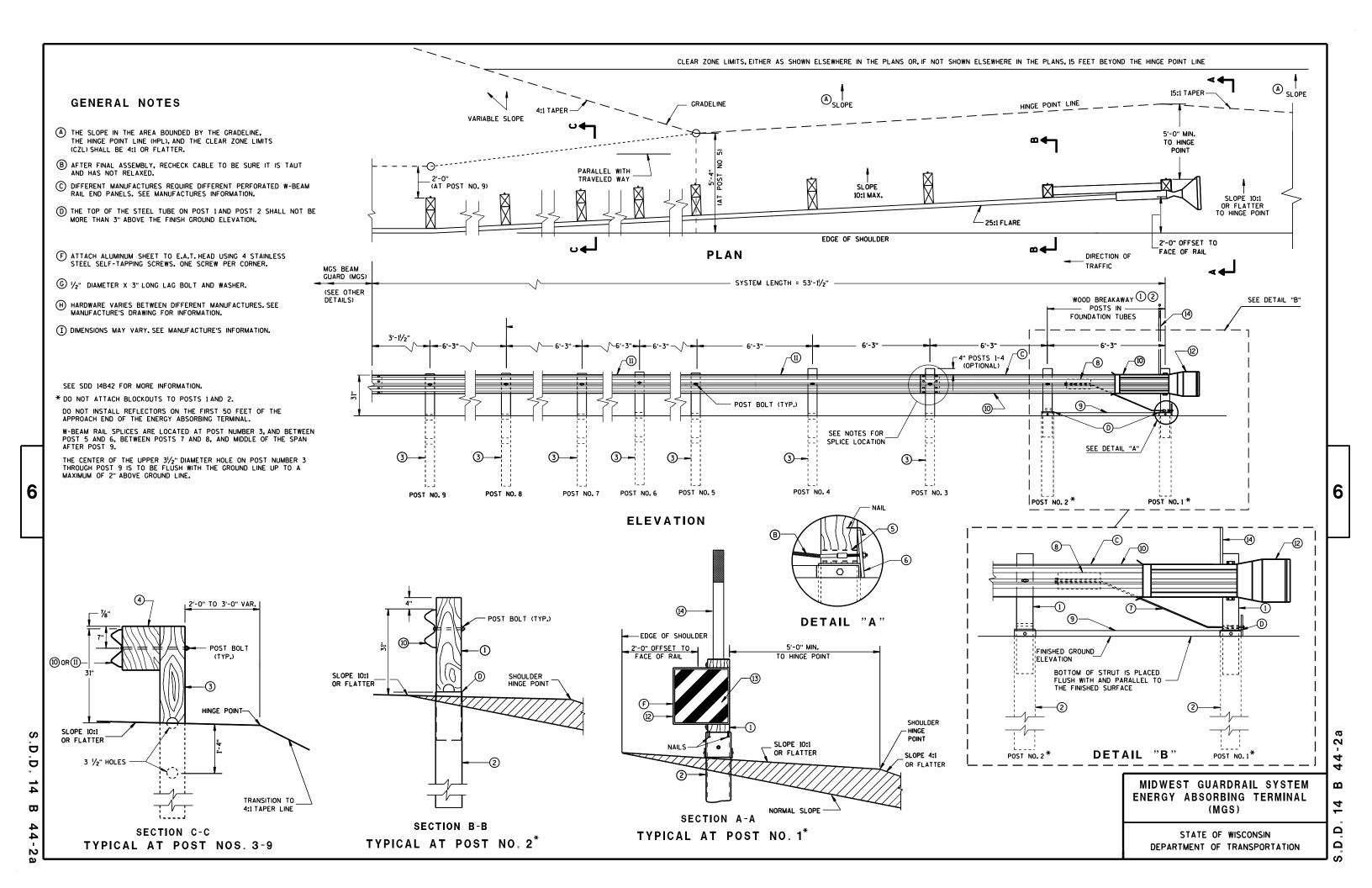
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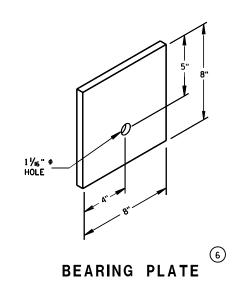
SECTION A-A SECTION B-B

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PLAN VIEW

BILL OF MATERIALS

PART NO.	DESCRIPTION MATERIALS PROVIDED BY MGS EAT MANUFACTURER. SEE MANUFACTURER'S DETAILS FOR MORE INFORMATION.
1	WOOD BREAKAWAY POST
2	6" X 8" X 0.188", 6'-0" LONG FOUNDATION TUBE AT POSTS 1AND 2
3	WOOD CRT
4	WOOD BLOCKOUT
(5)	PIPE SLEEVE
6	BEARING PLATE
7	BCT CABLE ASSEMBLY
8	ANCHOR CABLE BOX
9	GROUND STRUT
10	PERFORATED W-BEAM RAIL END PANEL, 12'-6" LONG.
(11)	STANDARD W-BEAM RAIL.MULTIPLE SECTIONS REQUIRED. SECTIONS VARY IN LENGTH.
12	END SECTION EAT
(3)	0.040" ALUMINUM SHEET WITH REFLECTIVE SHEETING TYPE F PER SECTION 637 OF THE STANDARD SPECIFICATIONS
14)	EAT MARKER POST - YELLOW (SEE APPROVED PRODUCTS LIST)

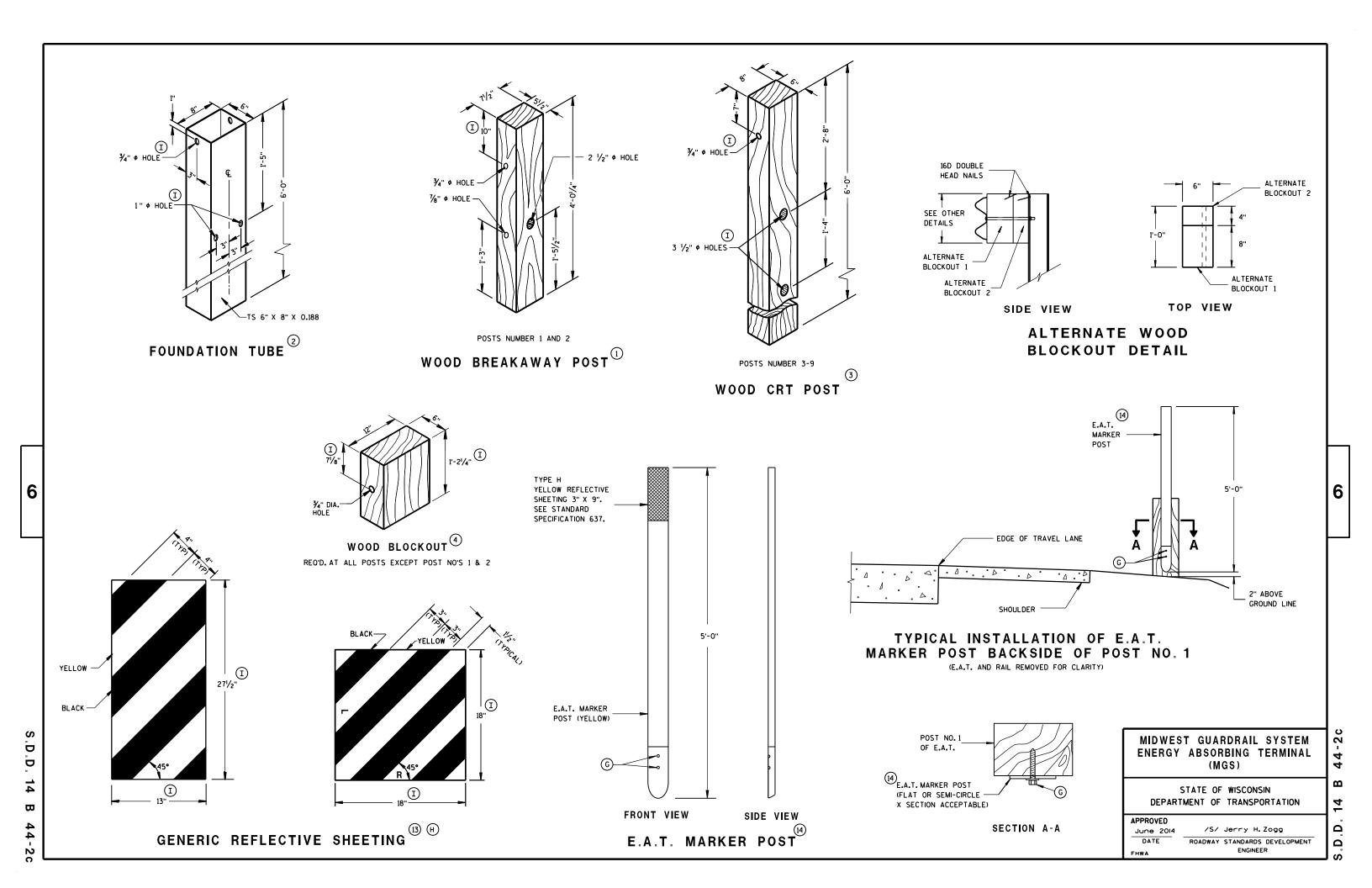


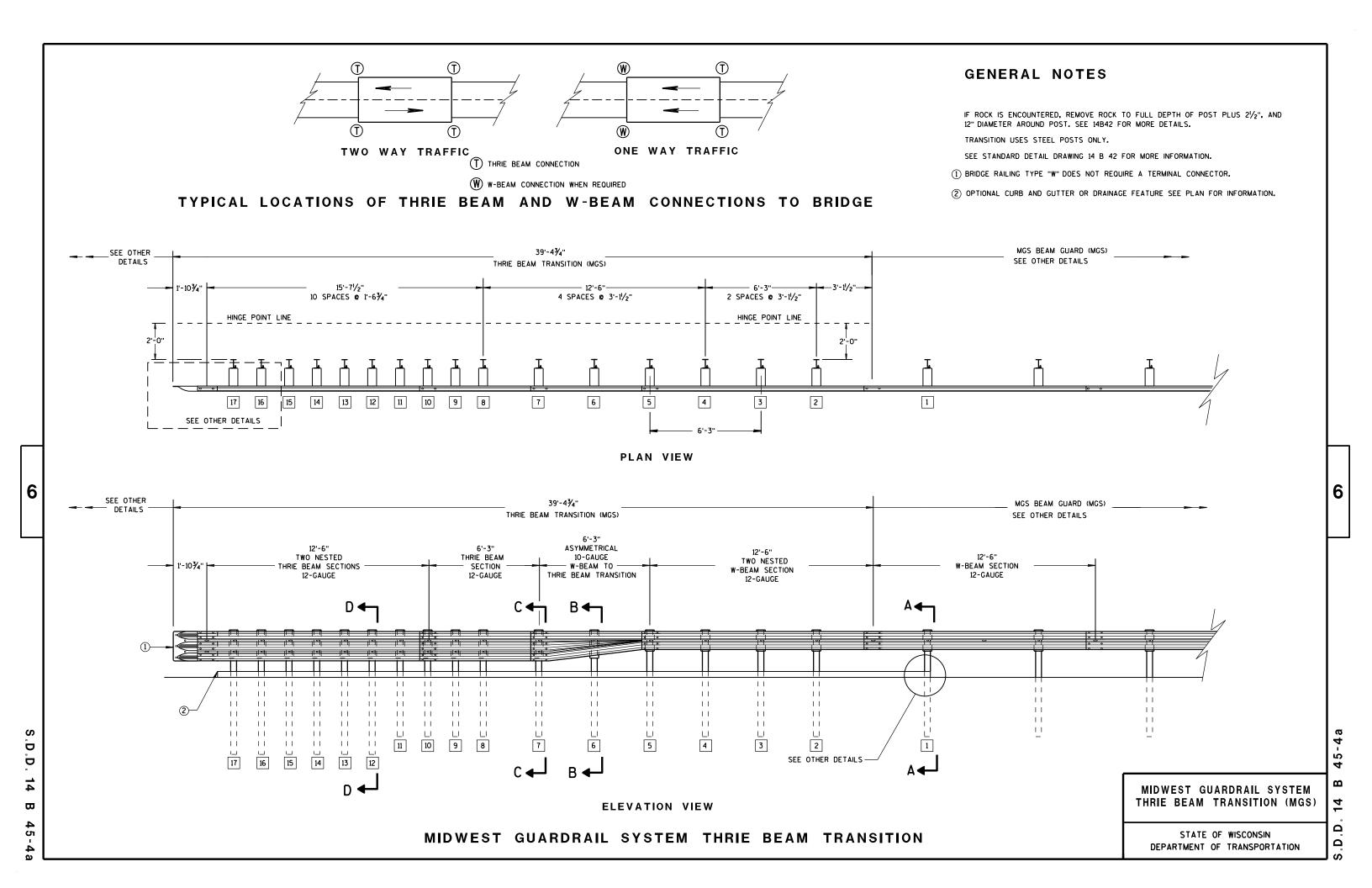
MIDWEST GUARDRAIL SYSTEM ENERGY ABSORBING TERMINAL (MGS)

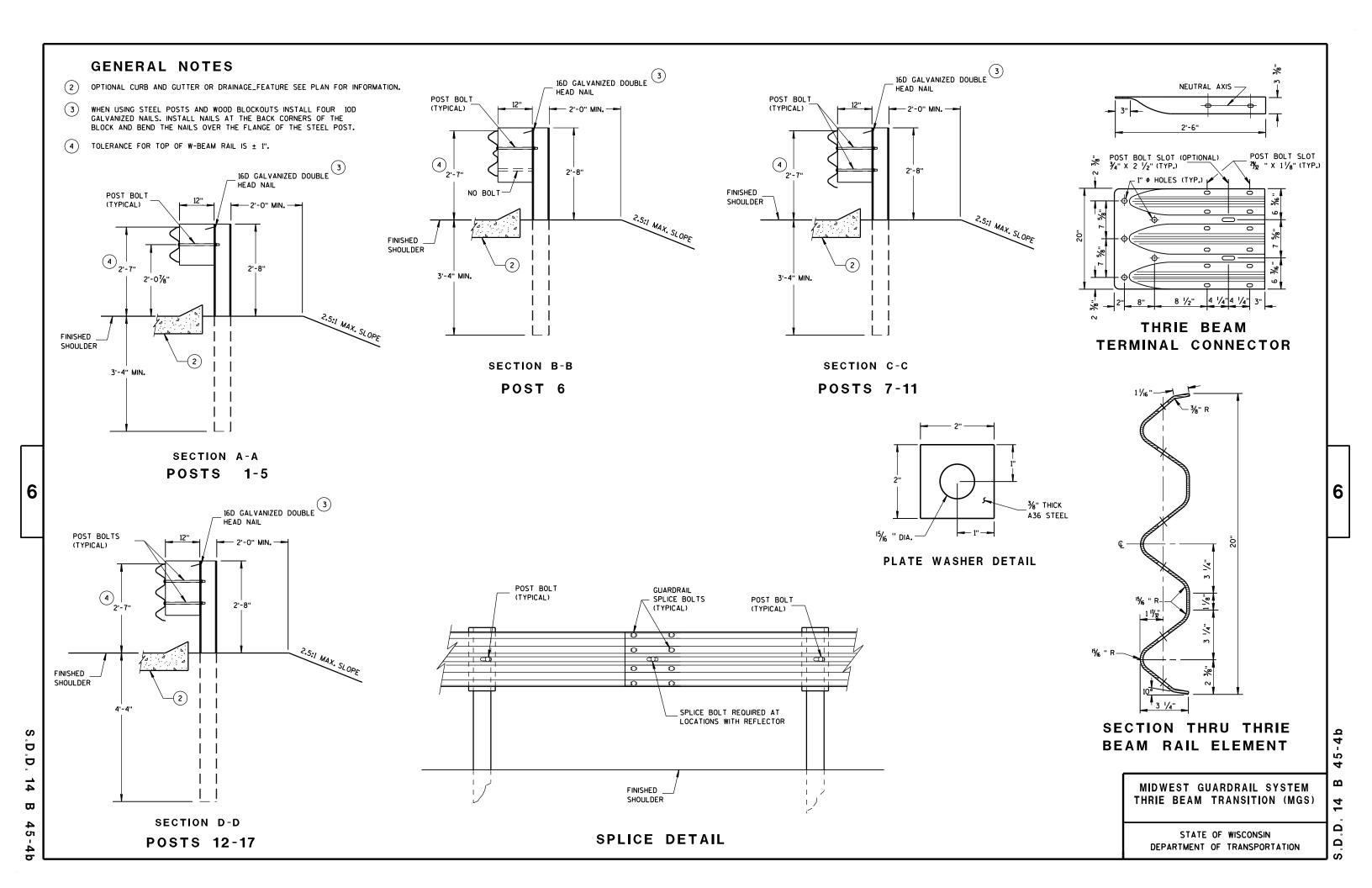
STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION

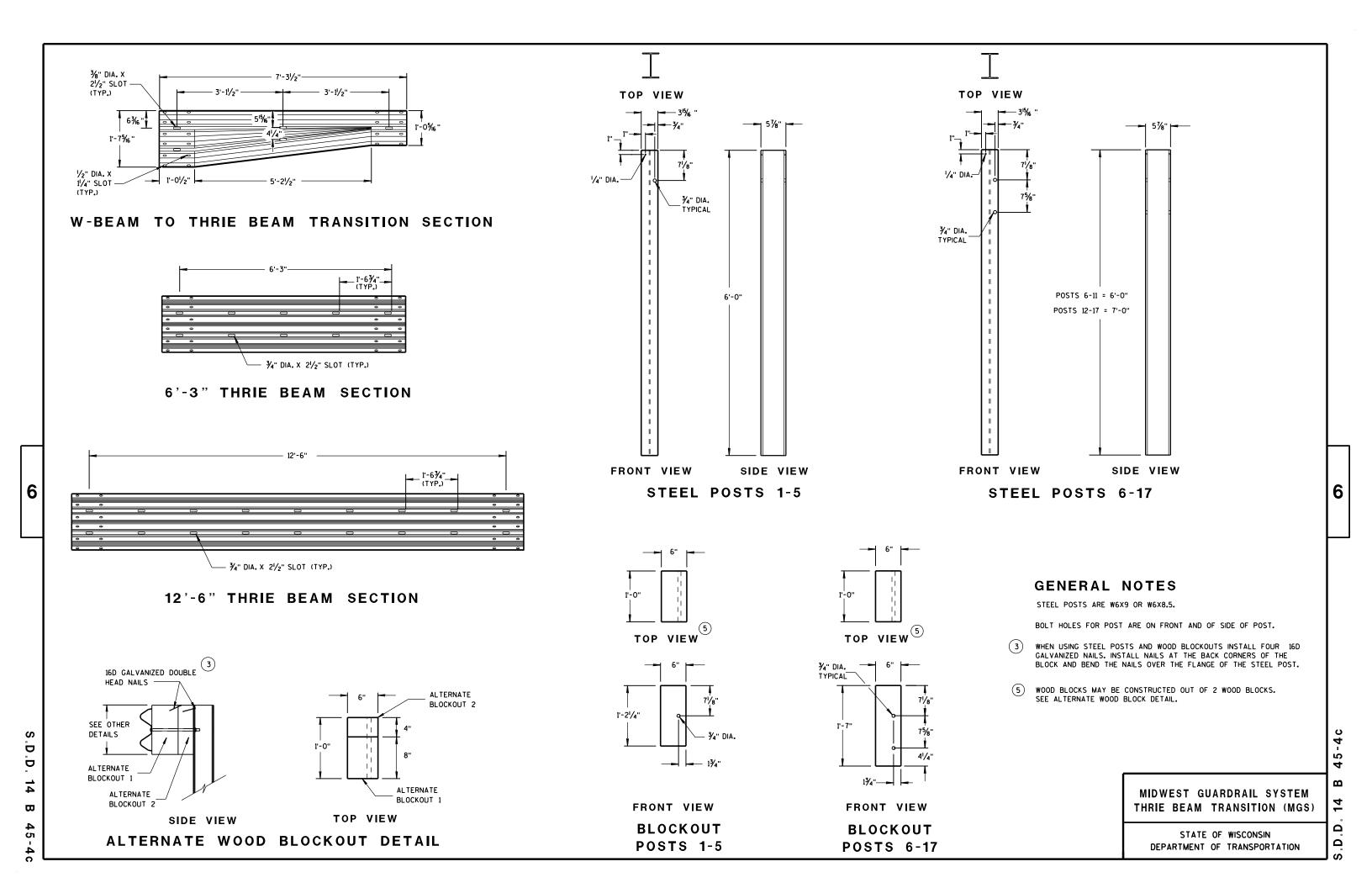
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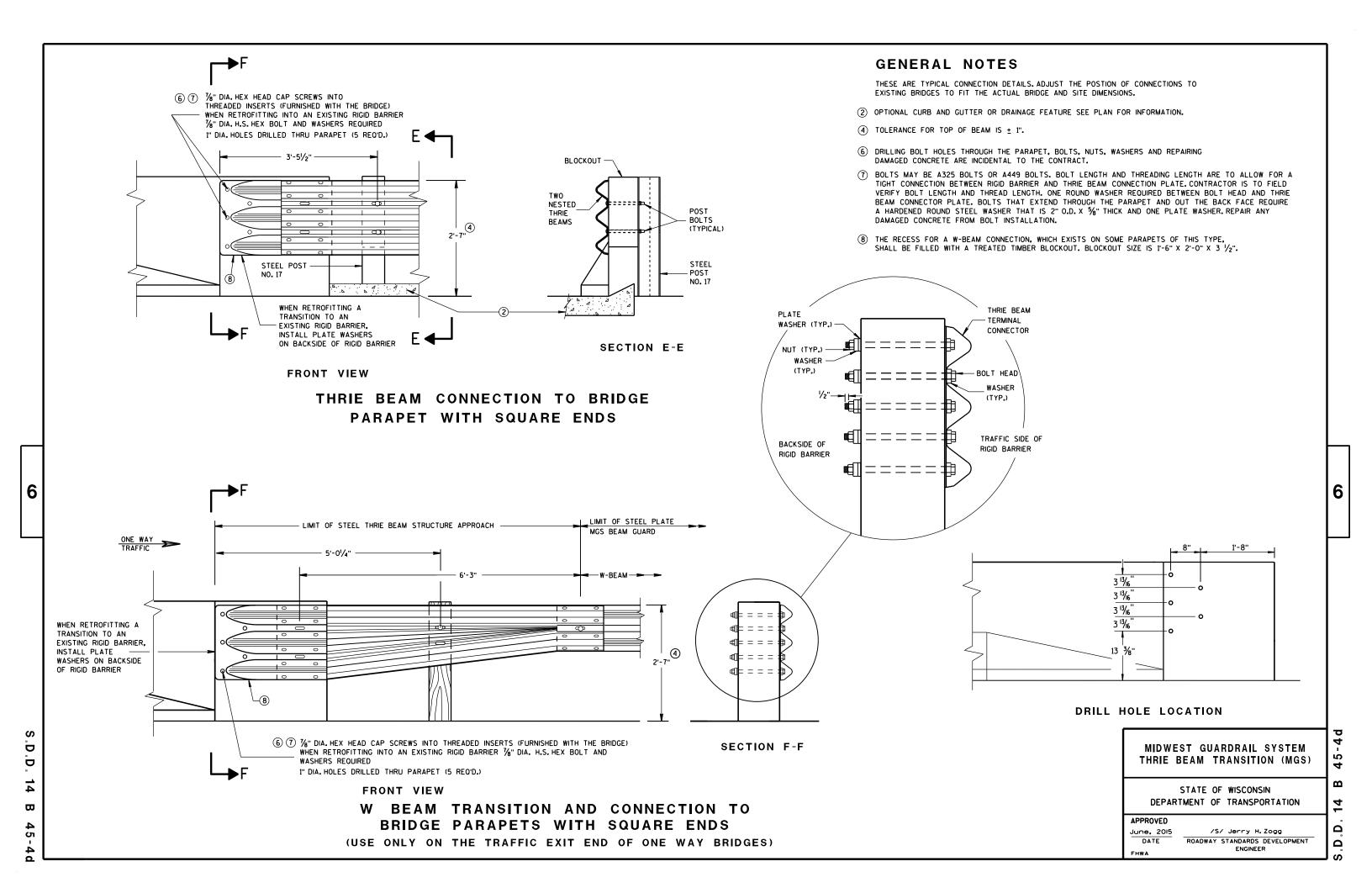
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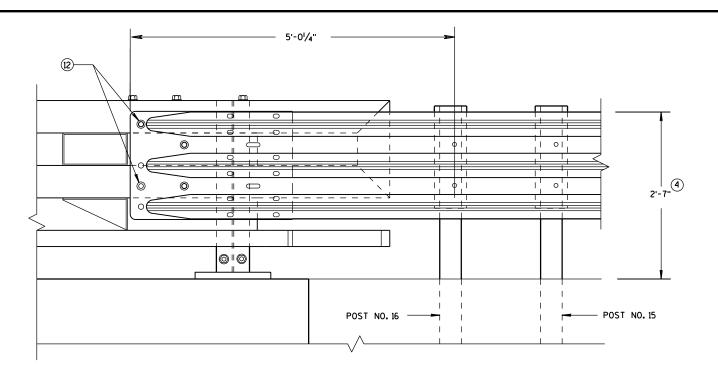






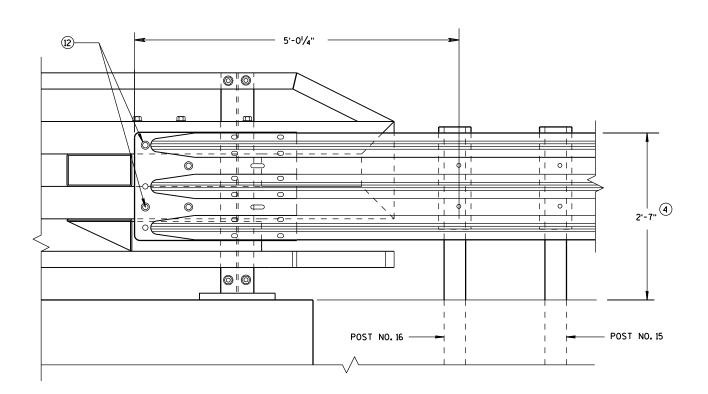






ELEVATION OF DETAIL AT NY3 END POST

THRIE BEAM RAIL ATTACHMENT



ELEVATION OF DETAIL AT NY4 END POST

THRIE BEAM RAIL ATTACHMENT

GENERAL NOTES

- 4 TOLERANCE FOR TOP OF BEAM IS ± 1".
- (12) BOLTS MAY BE A325 BOLTS OR A449 BOLTS. BOLT LENGTH AND THREADING LENGTH ARE TO ALLOW FOR A TIGHT CONNECTION BETWEEN RIGID BARRIER AND THRIE BEAM CONNECTION PLATE. CONTRACTOR IS TO FIELD VERIFY BOLT LENGTH AND THREAD LENGTH. ONE ROUND WASHER REQUIRED BETWEEN BOLT HEAD AND THRIE BEAM CONNECTOR PLATE. ON BACKSIDE OF PARAPET ONE ROUND WASHER, AND NUT REQUIRED. BOLT THREAD IS TO EXTEND 1/2-INCH BEYOND NUT.

MIDWEST GUARDRAIL SYSTEM THRIE BEAM TRANSITION (MGS) 6

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STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION

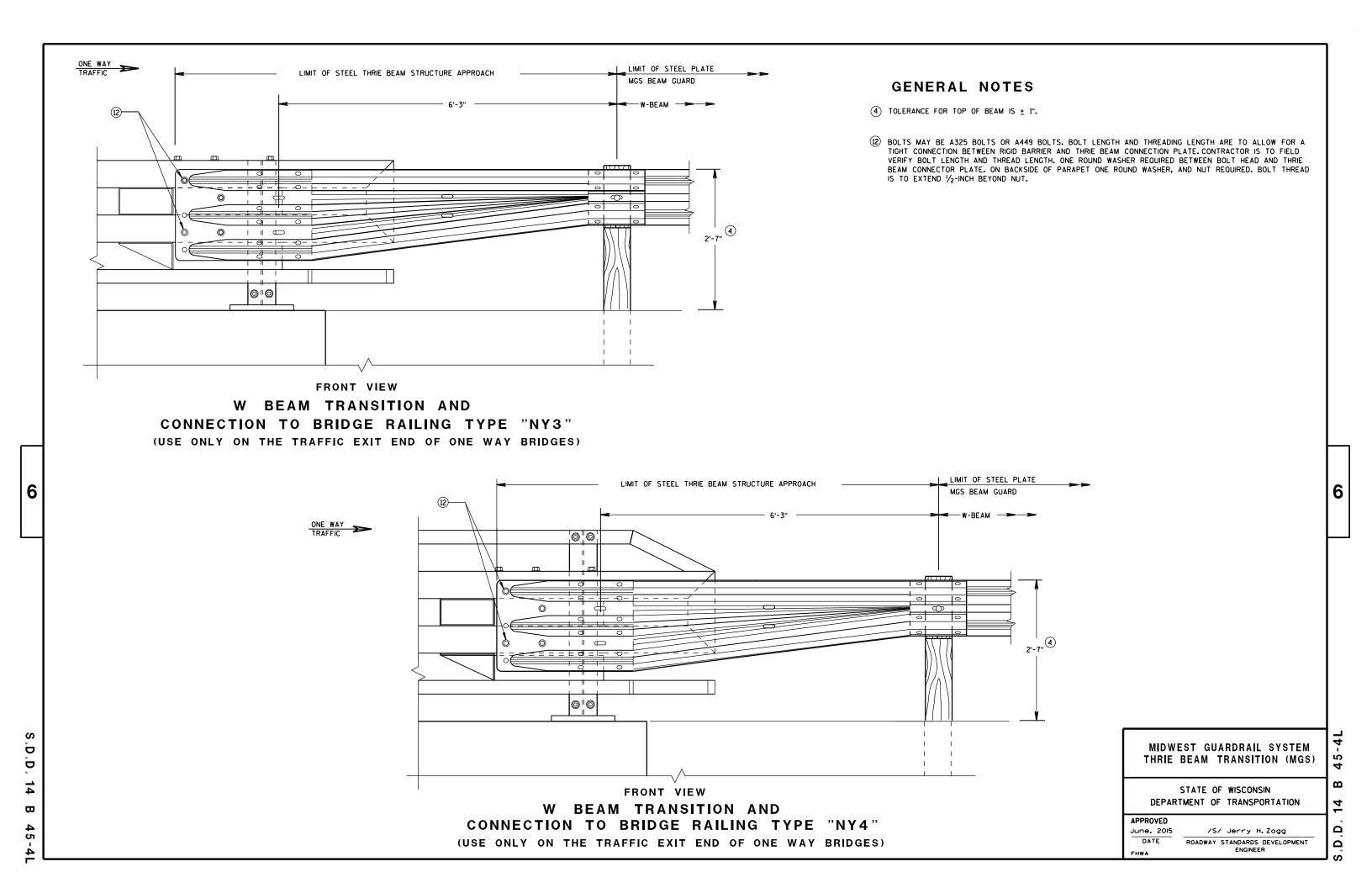
APPROVED

/S/ Jerry H. Zogg June, 2015 DATE ROADWAY STANDARDS DEVELOPMENT ENGINEER FHWA

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ROAD CLOSURE BARRICADE DETAIL

APPROACH VIEW



DETAIL E 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

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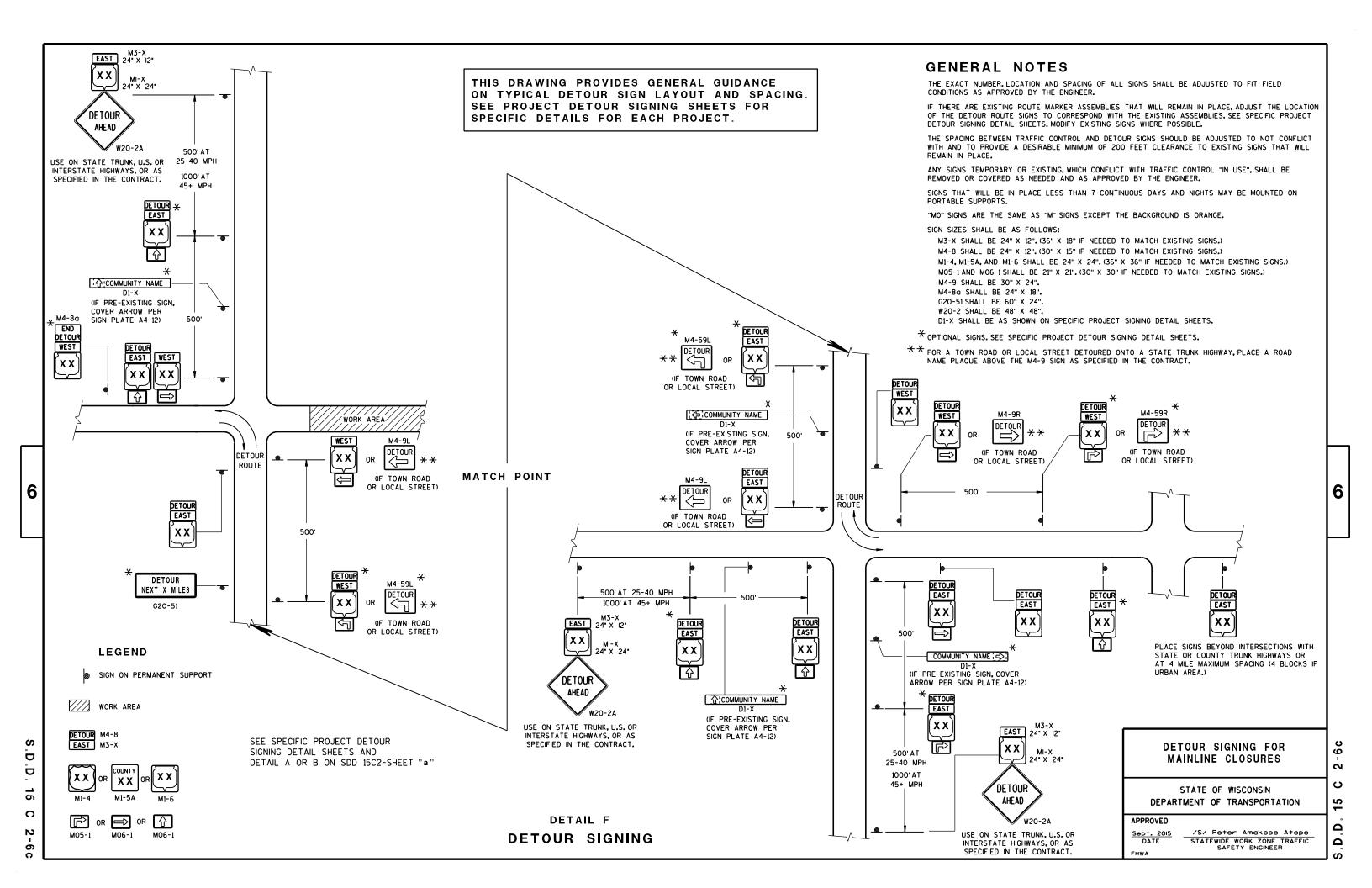
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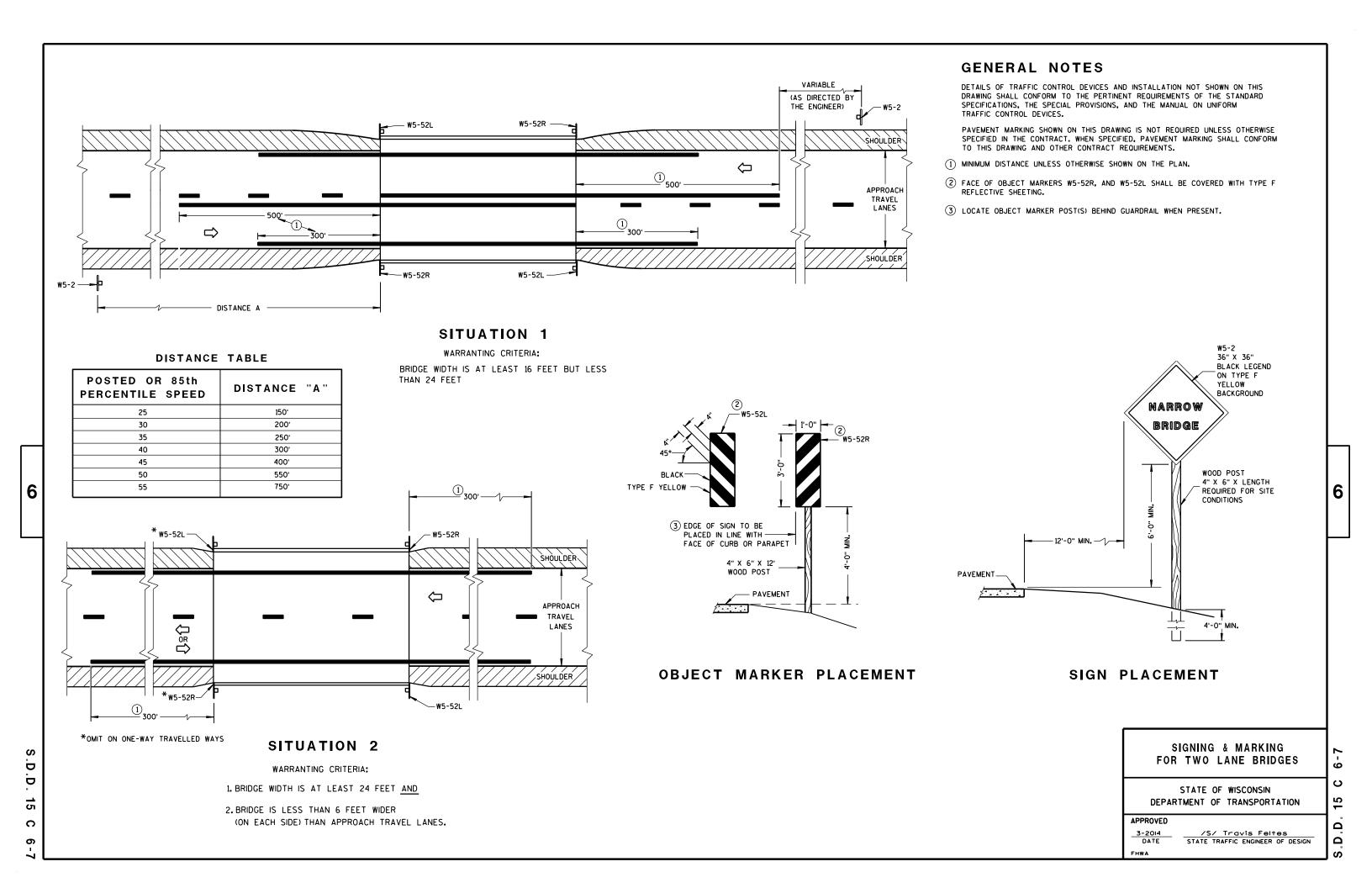
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STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION

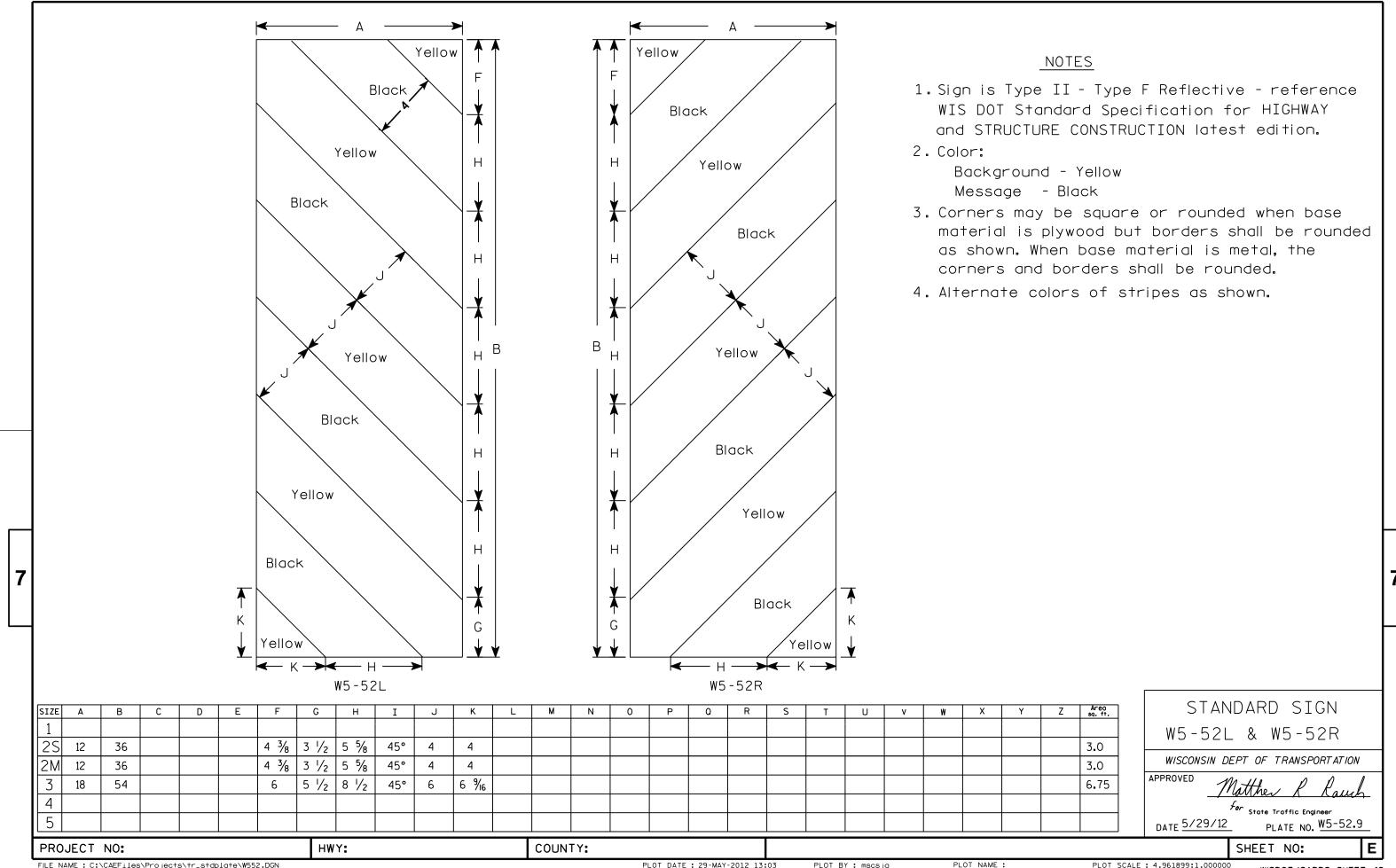
/S/ Peter Amakobe Atepe

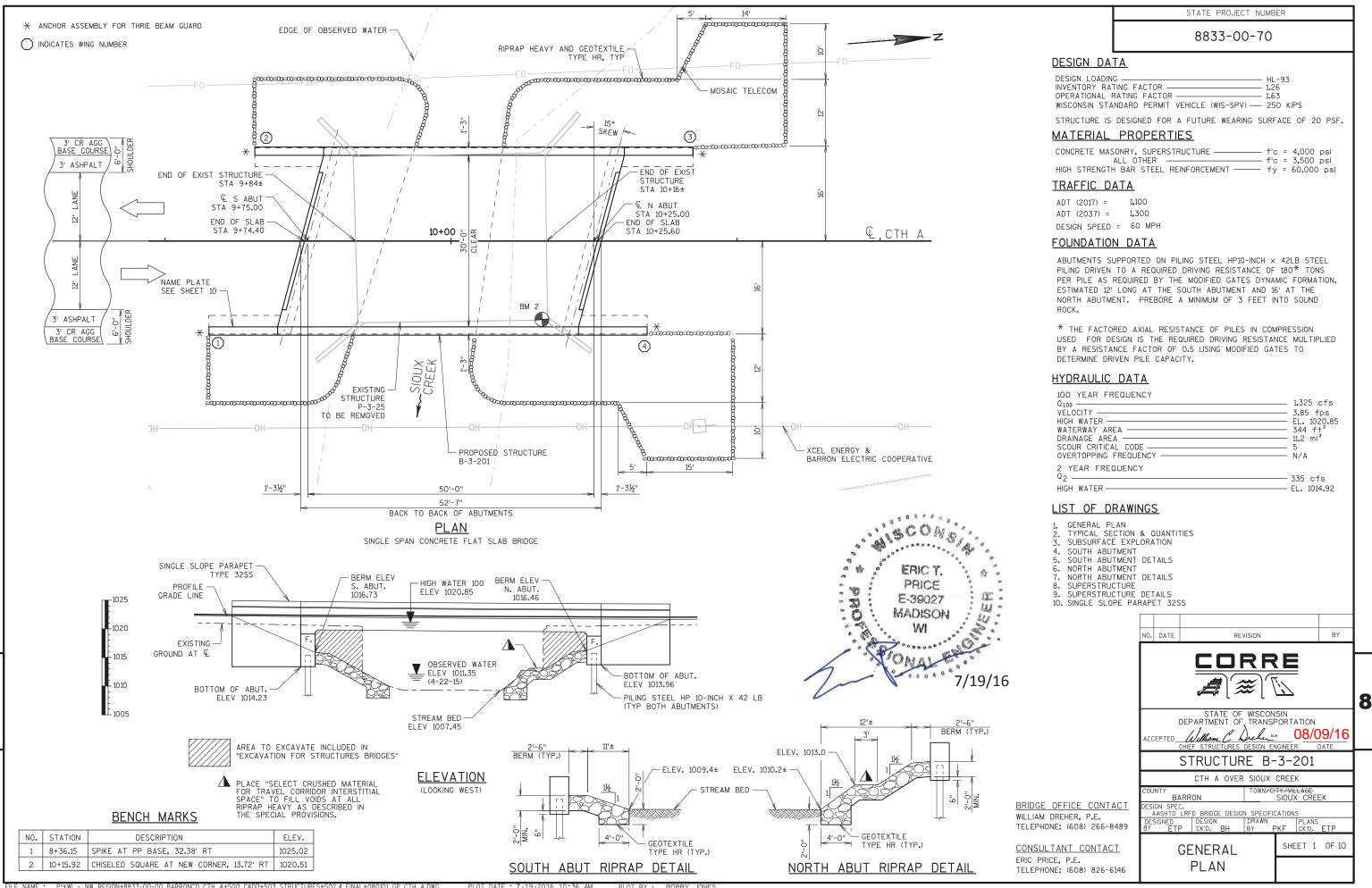
STATEWIDE WORK ZONE TRAFFIC SAFETY ENGINEER



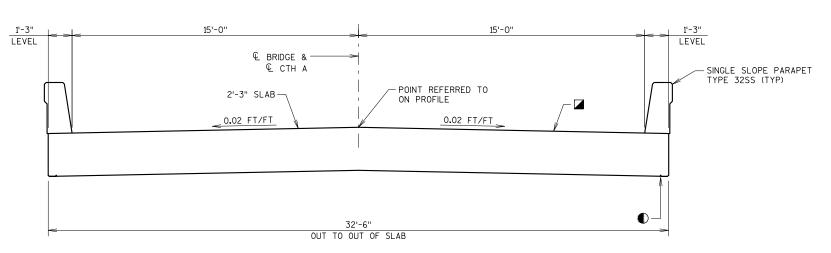






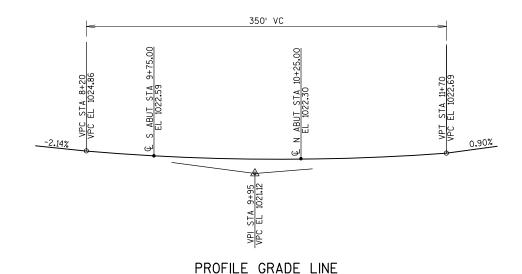


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CROSS SECTION THRU BRIDGE

(LOOKING NORTH)



TOTAL ESTIMATED QUANTITIES

	<u> </u>					
BID NUMBER	BID ITEM	UNIT	SOUTH ABUT	NORTH ABUT	SUPER	TOTALS
203 . 0600 . S	REMOVING OLD STRUCTURE OVER WATERWAY WITH MINIMAL DEBRIS STA. 10+00	LS				1
206.1000	EXCAVATION FOR STRUCTURES BRIDGES B-3-201	LS				1
210.1500	BACKFILL STRUCTURE TYPE A	TON	170	170		340
502.0100	CONCRETE MASONRY BRIDGES	CY	38	38	159	235
502,3200	PROTECTIVE SURFACE TREATMENT	SY			175	175
502.3210	PIGMENTED SURFACE SEALER	SY	10	10	44	64
505.0400	BAR STEEL REINFORCEMENT HS STRUCTURES	LB	2,020	2,020		4,040
505.0600	BAR STEEL REINFORCEMENT HS COATED STRUCTURES	LB	2,250	2,240	31,040	35,530
516.0500	RUBBERIZED MEMBRANE WATERPROOFING	SY	11	11		22
550.0020	PRE-BORING ROCK OR CONSOLIDATED MATERIALS	LF	60	80		140
550.1100	PILING STEEL HP 10-INCH X 42 LB	LF	70	50		120
606.0300	RIPRAP HEAVY	CY	115	230		345
612.0406	PIPE UNDERDRAIN WRAPPED 6-INCH	LF	80	80		160
614.0150	ANCHOR ASSEMBLIES FOR STEEL PLATE BEAM GUARD	EA				4
645.0120	GEOTEXTILE TYPE HR	SY	140	285		425
SPV.0035	SELECT CRUSHED MATERIAL FOR TRAVEL CORRIDOR INTERSTITIAL SPACE	CY		8		8
	NON-BID ITEMS					
	FILLER	SIZE				1/2" & 3/4"

LEGEND

- 1 3/4" V-GROOVE. TERMINATE 6" FROM FRONT FACE OF ABUTMENTS.
- COAT WITH "PROTECTIVE SURFACE TREATMENT" AS PER THE STANDARD SPECIFICATIONS.

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 NO. AND THE FIRST TWO DIGITS OF A FOUR DIGIT BAR NO. SIGNIFIES THE BAR SIZE.

JOINT FILLER SHALL CONFORM TO THE REQUIREMENTS OF AASHTO DESIGNATION M153 TYPE I, II OR III OR AASHTO DESIGNATION M213.

THE SLOPE OF THE FILL IN FRONT OF THE ABUTMENTS SHALL BE COVERED WITH RIPRAP HEAVY AND GEOTEXTILE TYPE HR TO THE EXTENT SHOWN ON THE GENERAL PLAN SHEET AND IN THE ABUTMENT DETAILS, OR AS DIRECTED BY THE ENGINEER.

SLAB FALSEWORK SHALL BE SUPPORTED ON PILES OR THE SUBSTRUCTURE UNLESS AN ALTERNATE METHOD IS APPROVED BY THE ENGINEER.

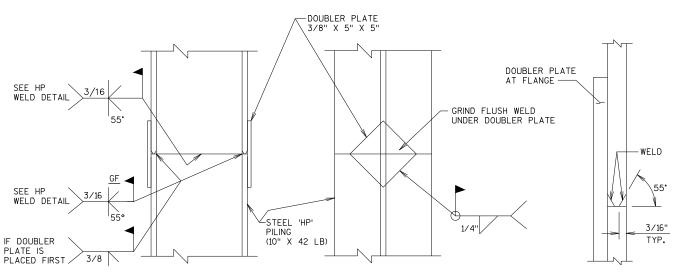
THE EXISTING GROUND LINE SHALL BE THE UPPER LIMIT FOR EXCAVATION FOR

PIGMENTED SURFACE SEALER SHALL BE APPLIED TO THE ENTIRE INSIDE FACE AND TOP SURFACE OF THE PARAPETS ON THE WINGS AND SUPERSTRUCTURE.

THE EXISTING STRUCTURE P-3-25, TO BE REMOVED, IS A SINGLE SPAN STEEL DECK GIRDER BRIDGE, 32.0 FT. LONG WITH A 26.1 FT. CLEAR ROADWAY WIDTH.

AT THE BACKFACE OF ABUTMENT ALL VOLUME WHICH CANNOT BE PLACED BEFORE ABUTMENT CONSTRUCTION AND IS NOT OCCUPIED BY THE NEW STRUCTURE SHALL BE BACKFILLED WITH BACKFILL STRUCTURE.

THE QUANTITY FOR BACKFILL STRUCTURE TYPE B, BID ITEM 210,2100, IS CALCULATED BASED ON THE APPLICABLE FIGURES 12.6-1 AND 12.6-2 IN THE WISDOT BRIDGE MANUAL.



STEEL 'HP' PILING

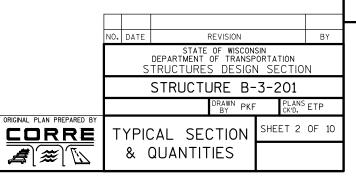
STEEL 'HP' PILE MATERIAL SHALL BE A.S.T.M. DESIGNATION A36.

HP WELD DETAIL FLANGE SHOWN, WEB SIMILAR

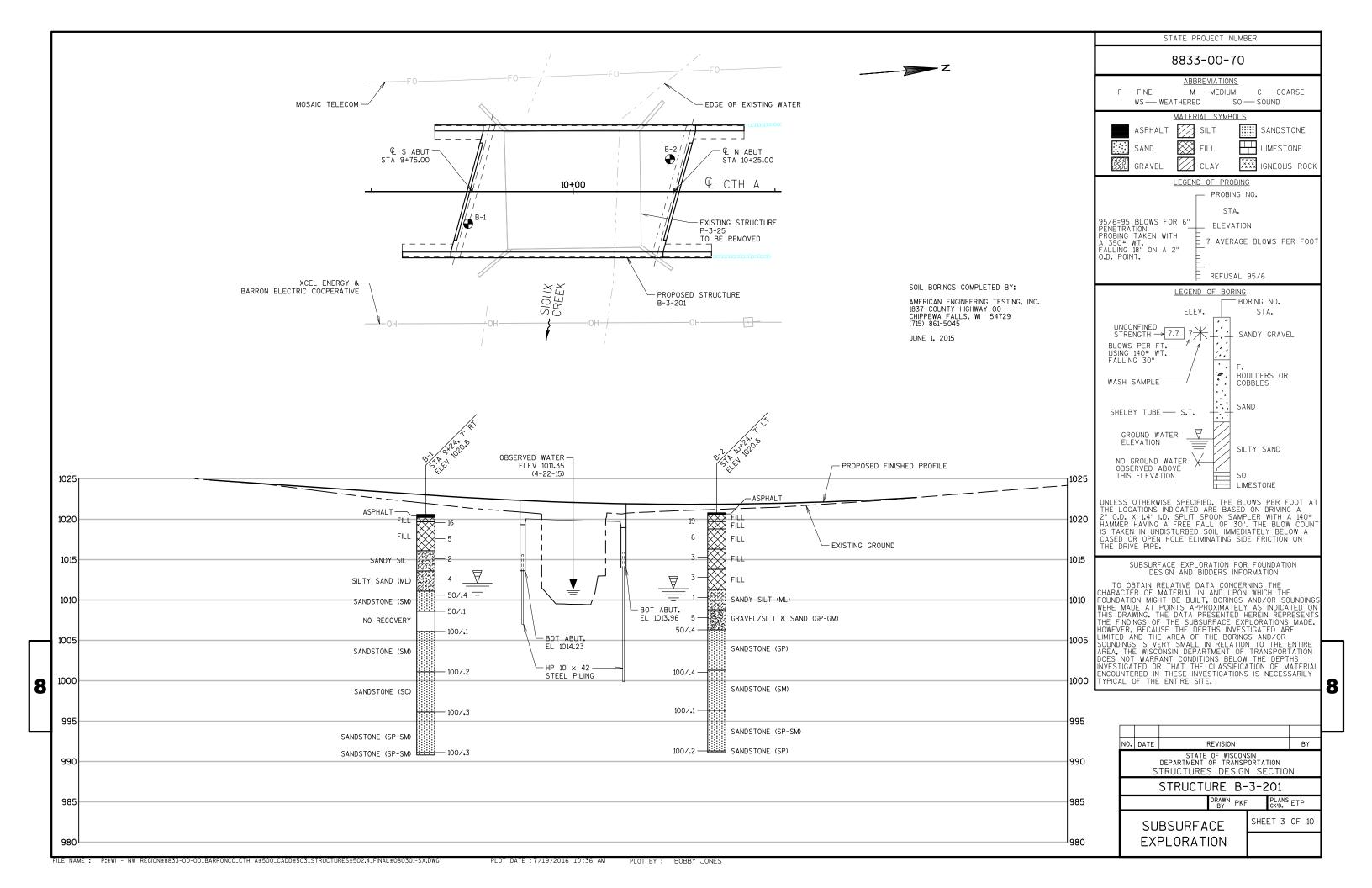
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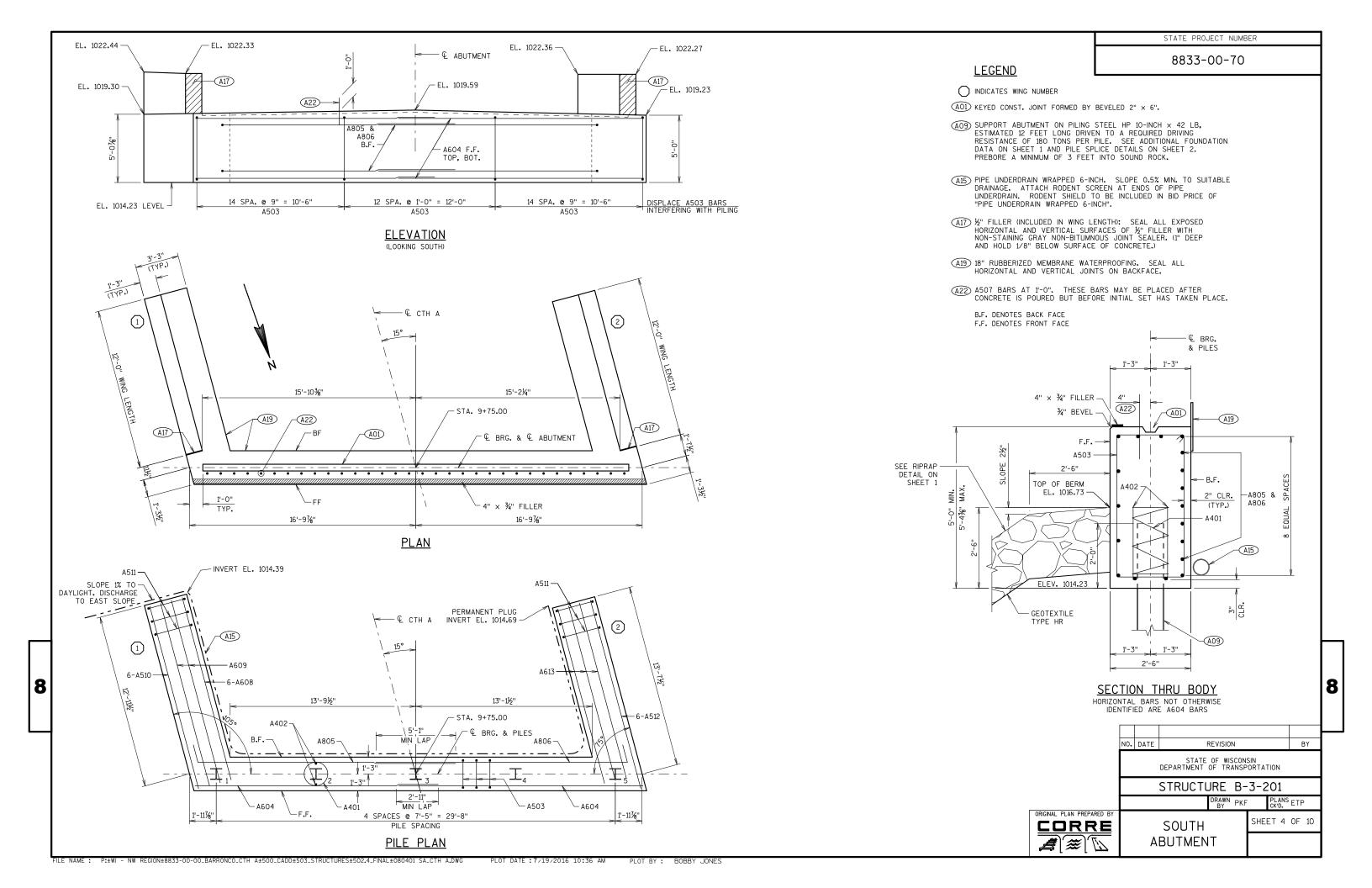
PILE SPLICE DETAILS

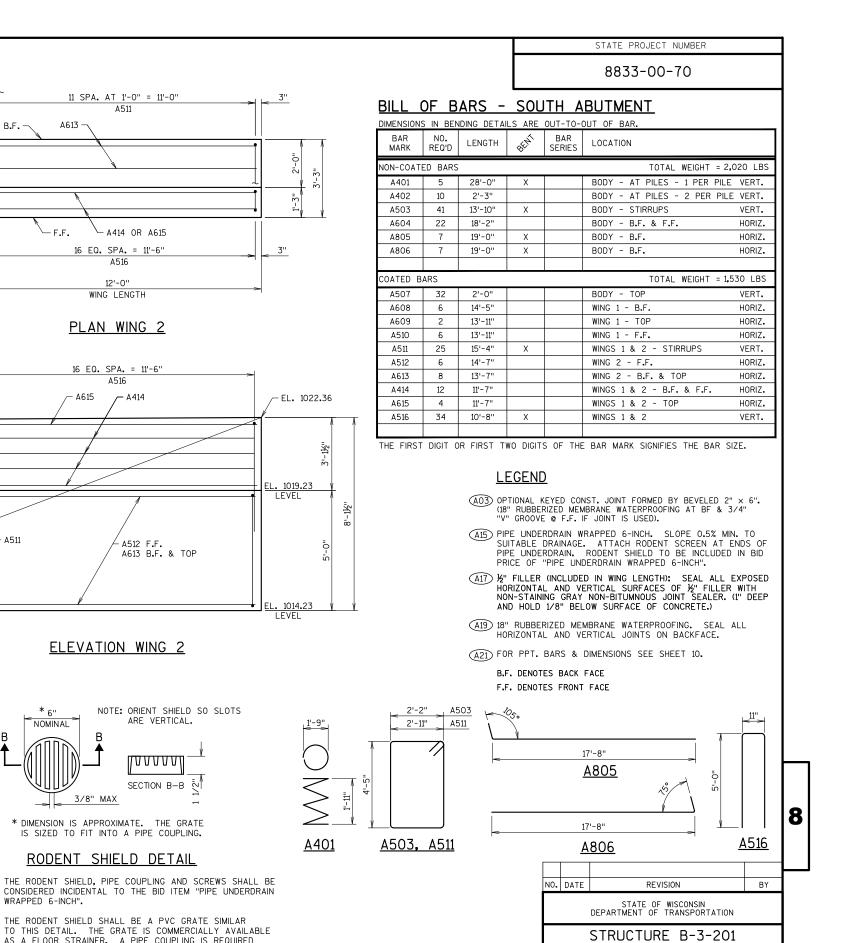
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ORIGINAL PLAN PREPARED BY

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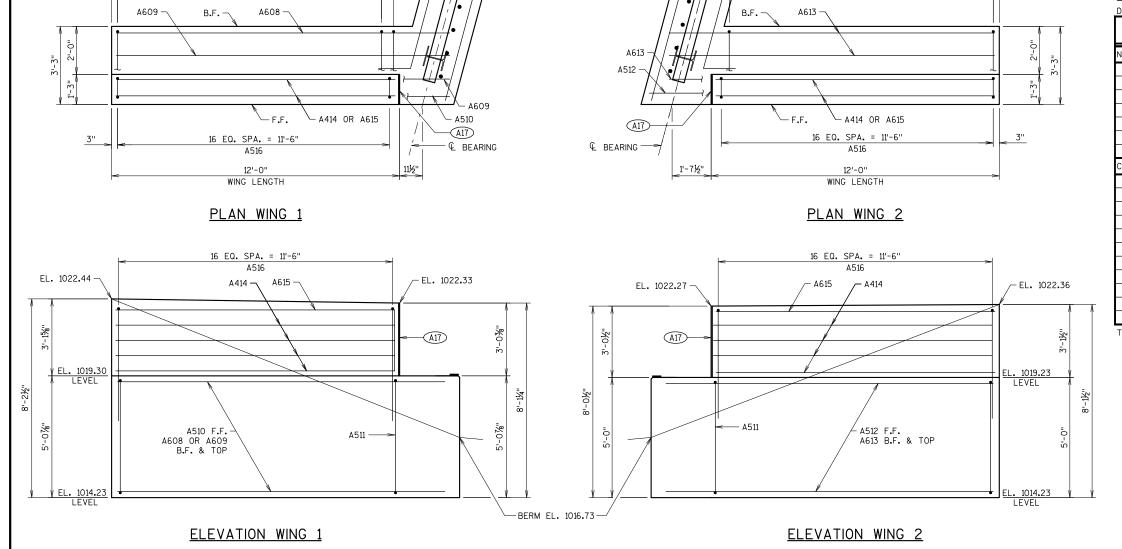
DRAWN PKF

SOUTH ABUTMENT

DETAILS

PLANS ETP

SHEET 5 OF 10



(A21)

A615 A516 -(A19) - ¾" 'V' GROOVE A613 -(A03) B.F. -F.F. (A15) A511 -3'-3"

SECTION THRU WING 2

CONSIDERED INCIDENTAL TO THE BID ITEM "PIPE UNDERDRAIN WRAPPED 6-INCH".

AS A FLOOR STRAINER. A PIPE COUPLING IS REQUIRED FOR THE ATTACHMENT OF THIS SHIELD TO THE OUTFALL PIPE. THE SHIELD SHALL BE FASTENED TO THE PIPE COUPLING WITH TWO OR MORE NO. 10 X 1-INCH STAINLESS STEEL SHEET METAL SCREWS.

-(A19)

−B.F.

-(A15)

A609

`— A511

3'-3"

SECTION THRU WING 1

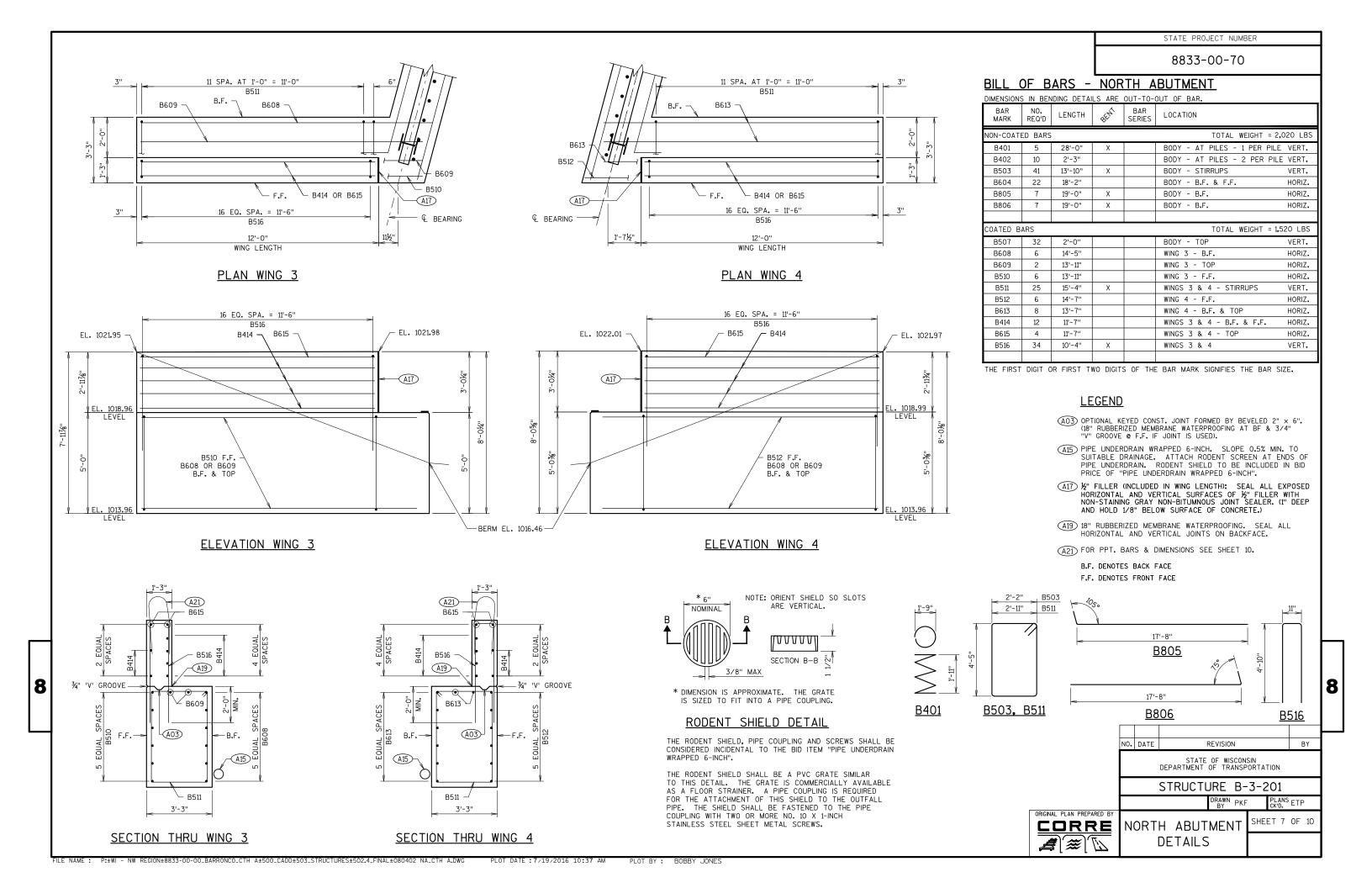
-(A03)

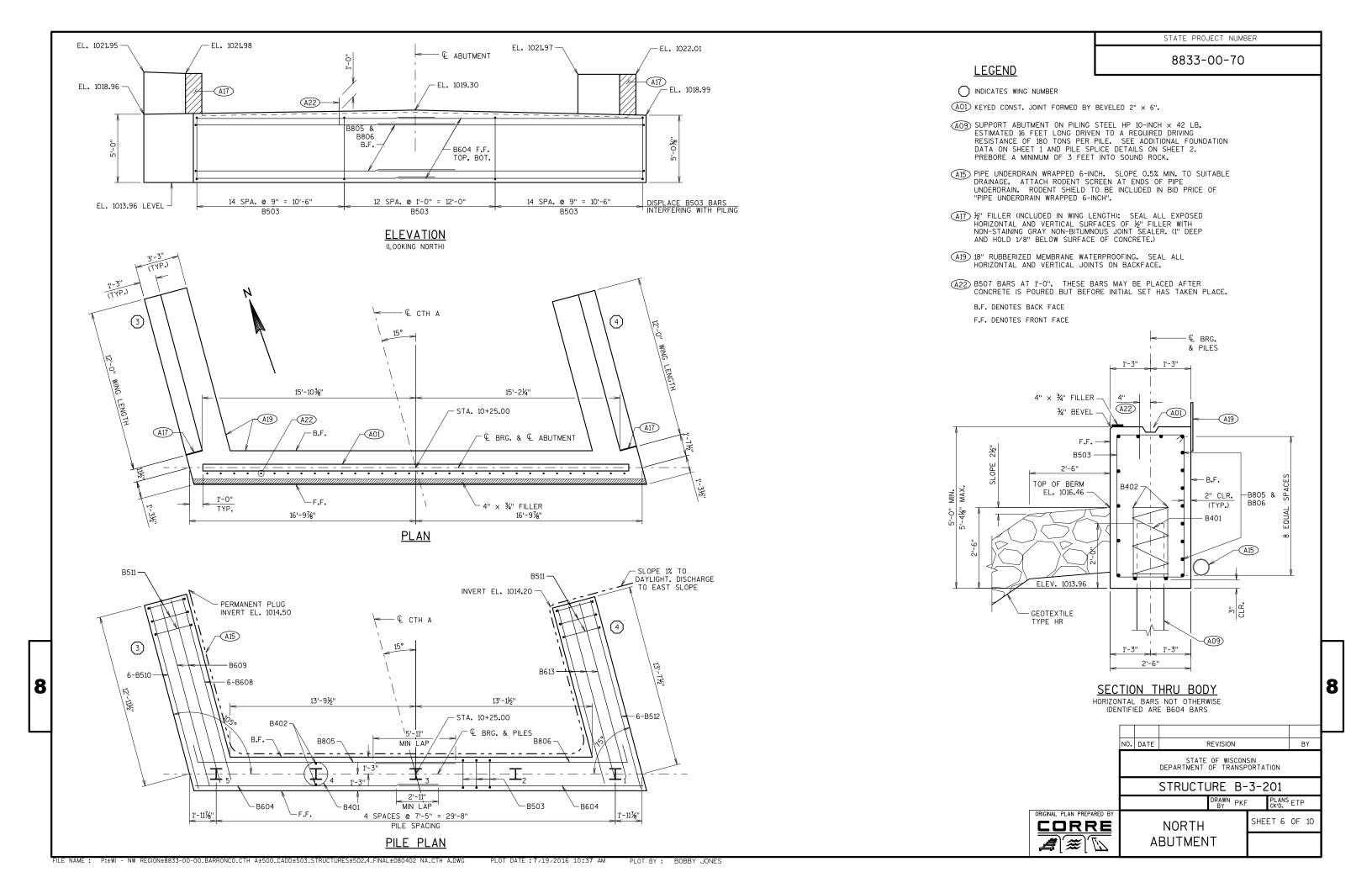
¾" 'V' GROOVE

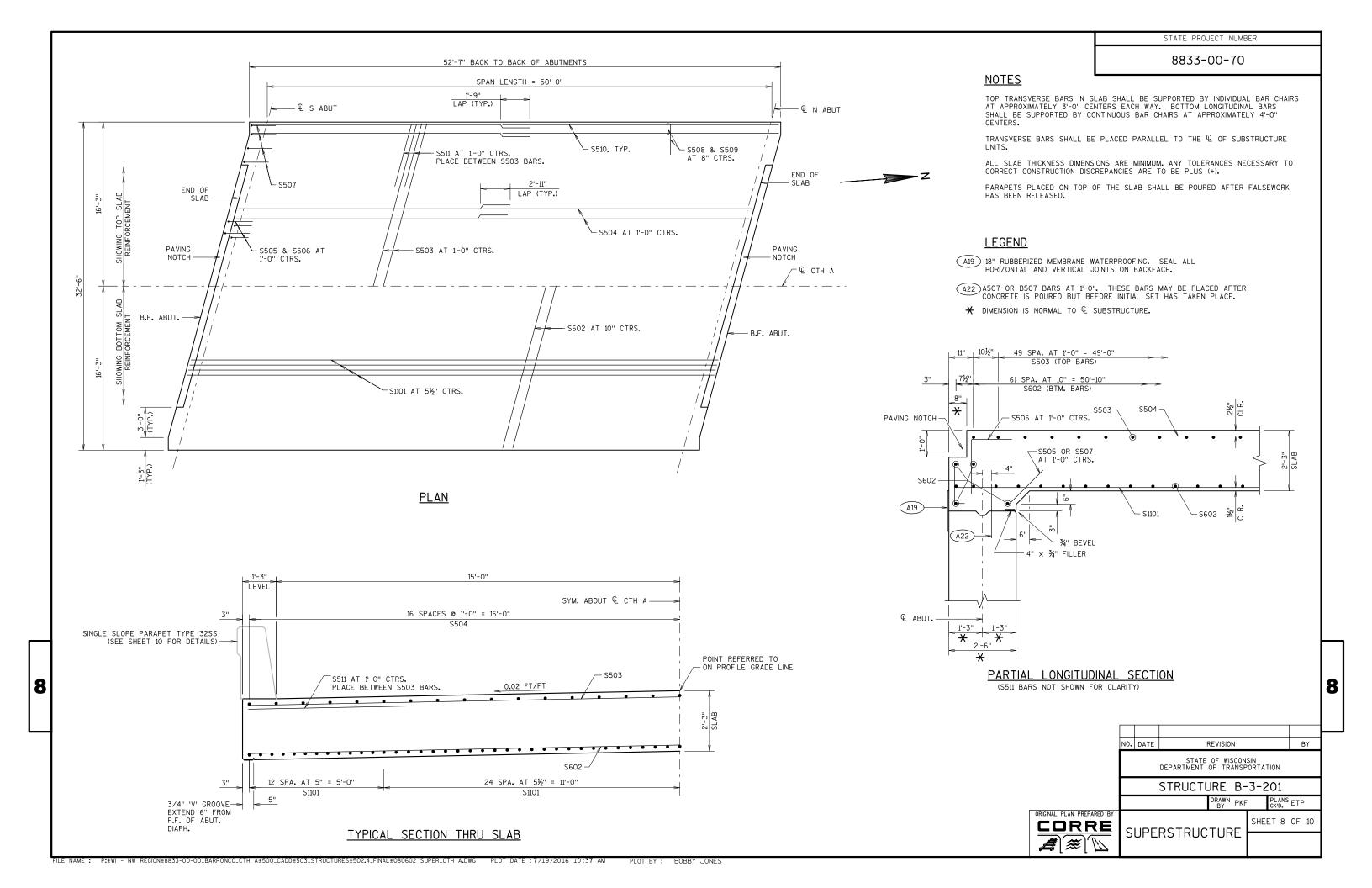
F.F.-

11 SPA. AT 1'-0" = 11'-0"

A511







8833-00-70

BILL OF BARS - SUPERSTRUCTURE

S511

102 5'-0"

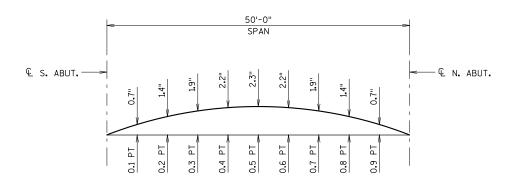
DIMENSIONS IN BENDING DETAILS ARE OUT-TO-OUT OF BAR. NO. REQ'D BAR SERIES LENGTH LOCATION MARK COATED BARS TOTAL WEIGHT = 31,040 LBS S1101 73 52'-3" LONGIT. SLAB - BTM 72 TRANS. S602 33'-3" SLAB - BTM S503 52 33'-3" SLAB - TOP TRANS. S504 66 27'-7" SLAB - TOP LONGIT. S505 50 7'-7" SLAB - AT PAVING NOTCH VERT. S506 50 3'-7" SLAB - AT PAVING NOTCH VERT. SLAB - OUTSIDE PAVING NOTCH VERT. S507 16 8'-7" S508 158 4'-5" PARAPETS VERT. S509 158 5'-0" Х PARAPETS VERT. PARAPETS S510 24 27'-0" LONGIT

THE FIRST DIGIT OR FIRST TWO DIGITS OF THE BAR MARK SIGNIFIES THE BAR SIZE.

SLAB - TOP

TRANS

8



CAMBER DIAGRAM

PROVIDE CAMBER AS SHOWN ABOVE TO PROVIDE FOR DEAD LOAD DEFLECTION AND FUTURE CREEP. THIS DOES NOT INCLUDE ANY ALLOWANCE FOR FORM

PRIOR TO RELEASING SLAB FALSEWORK, TAKE TOP OF SLAB ELEVATIONS AT THE \P OF ABUTMENTS AND AT 5/10 POINTS TO VERIFY CAMBER. TAKE ELEVATIONS ALONG GUTTER LINES AND CROWN OR $\mathbb Q$.

TO DETERMINE FALSEWORK ELEVATION AT EDGE OF SLAB, CROWN OR REFERENCE LINE FOLLOW THIS PROCEDURE:

TOP OF SLAB ELEVATION AT FINAL GRADE

LESS SLAB THICKNESS

CAMBER

FORM SETTLEMENT/DEFLECTION DUE TO PLACEMENT OF SLAB CONCRETE (TO BE COMPUTED BY THE CONTRACTOR)

EQUALS TOP OF SLAB FALSEWORK ELEVATION.

TOP OF DECK ELEVATIONS

8

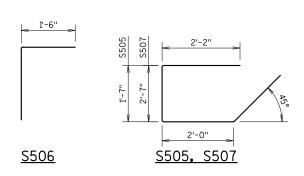
LOCATION	€ OF S. ABUT.	0.1	0.2	0.3	0.4	0.5	0.6	0.7	0.8	0.9	€ OF N. ABUT.
WEST EDGE	1022.23	1022.19	1022.16	1022.12	1022.09	1022.07	1022.04	1022.02	1022.99	1022.98	1021.96
€ STRUCTURE	1022.59	1022.55	1022.51	1022.48	1022.45	1022.42	1022.39	1022.36	1022.34	1022.32	1022.30
EAST EDGE	1022.30	1022.26	1022,22	1022.18	1022.15	1022.12	1022.09	1022.06	1022.03	1022.01	1022.99

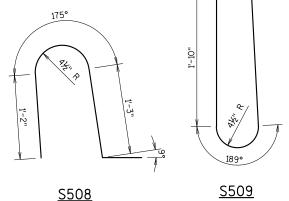
ELEVATIONS SHOWN ARE FINISHED DECK AND DO NOT INCLUDE ALLOWANCES OF DEAD LOAD DEFLECTION AND FUTURE CREEP.

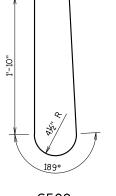
SURVEY TOP OF SLAB ELEVATIONS

SPAN POINT	S. ABUT.	0.5	N. ABUT.
WEST EDGE			
€ STRUCTURE			
EAST EDGE			

PRIOR TO RELEASING SLAB FALSEWORK, TAKE TOP OF SLAB ELEVATIONS AT THE \P OF ABUTMENTS AND AT 5/10 PTS. TO VERIFY CAMBER. TAKE ELEVATIONS ALONG GUTTER LINES AND CROWN OR R. RECORD THE ELEVATIONS IN THE ABOVE TABLE FOR THE "AS BUILT" PLANS.



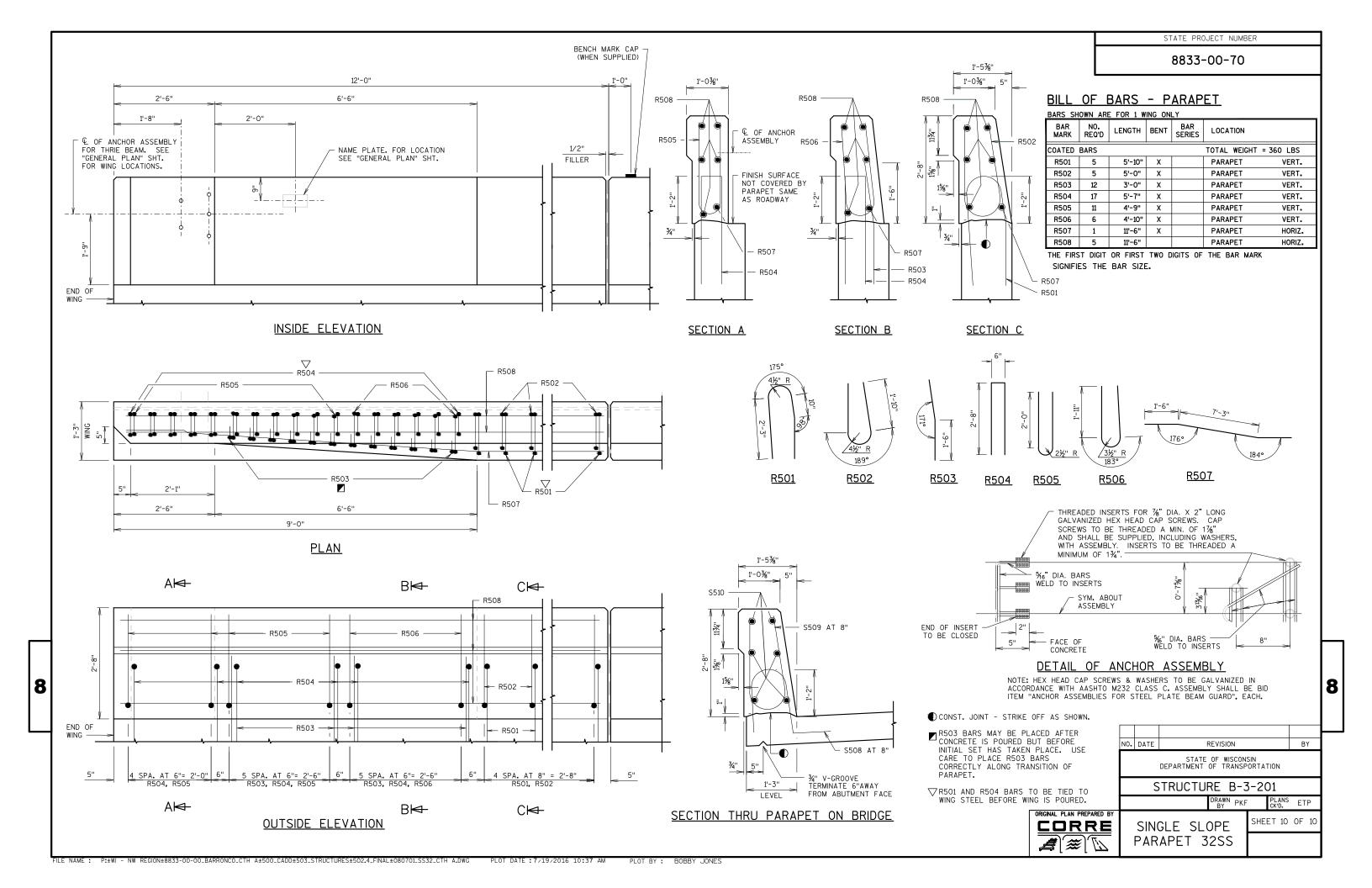




ORIGINAL PLAN PREPARED BY CORRE DETAILS

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NO. DATE REVISION BY STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION STRUCTURE B-3-201 PLANS ETP SHEET 9 OF 10 **SUPERSTRUCTURE**



STATION	Distance		AREA (SF)			Incremental Vol (CY) (Unadjusted)			Cumulative Vol (CY)					
		Cut	Salvaged/Unusable Pavement Material	FIII	EBS	Cu+	Salvaged/Unusable Pavement Material	FIII	EBS	Cu† 1.00	Expanded Fill 1.25 (6)	Expanded EBS Backfill 1.30 (5)	Reduced EBS In FIII 0.80 (4)	Mass Ordinate (7)
07+80.31	0,00	9,45	11,00	0,29	0.00	0	0	0	ō	0	0	0	0,00	0,00
07+88.35	8,04	14.82	11,00	0,64	0.00	4	3	0	6	4	0	0	0,00	0.17
08+00	11.65	16.35	11.00	0.74	0.00	7	5	0	6	10	1	0	0.00	1.77
08+20	20.00	37.68	11.00	1.23	0.00	20	8	1	0	30	1	0	0.00	12,72
08+33.69	13.69	38.83	11.00	1.30	0.00	19	6	1	0	50	2	0	0.00	25.74
08+50	16.31	37.79	11.00	0.08	0.00	23	7	0	0	73	3	0	0.00	41.72
08+54.57	4.57	35.54	11.00	0.18	0.00	6	2	0	0	79	3	0	0.00	46.03
08+62.6	8.04	31.40	11.00	0.87	0.00	10	3	0	0	89	3	0	0.00	52.53
08+79.57	16.96	23.19	11.00	2.29	0.00	17	7	1	0	106	4	0	0.00	61.52
08+87.6	8.04	19.26	11.00	3.43	0.00	6	3	1	0	113	5	0	0.00	63.50
09+00	12.40	13.71	11.00	3.97	0.00	8	5	2	0	120	7	0	0.00	63.90
09+04.57	4.57	12.01	11.00	4.65	0.00	2	2	1	0	122	8	0	0.00	63.30
09+12.6	8.04	9.22	11.00	8.29	0.00	3	3	2	0	125	11	0	0.00	60.78
09+50	37.40	0.00	11.00	39.66	0.00	6	15	33	0	132	52	0	0.00	10.42
09+57.69	7.69	0.00	11.00	37.90	0.00	0	3	11	0	132	66	0	0.00	-6.51
STR	UCTURE B-3-	-201												
10+42.31	0.00	1.02	11.00	55.65	0.00	0	0	0	0	132	66	0	0.00	-6.51
10+50	7.69	1.51	11.00	72.85	0.00	0	3	18	0	132	89	0	0.00	-32.15
10+87.4	37.40	10.57	11.00	87.05	0.00	8	15	111	0	141	227	0	0.00	-177.43
10+95.43	8.04	12.54	11.00	96.81	0.00	3	3	27	0	144	262	0	0.00	-211.48
11+00	4.57	13.62	11.00	103.69	0.00	2	2	17	0	146	283	0	0.00	-232.32
11+12.4	12.40	18.23	11.00	119.03	0.00	7	5	51	0	153	347	0	0.00	-293.96
11+20.43	8.04	21.68	11.00	120.53	0.00	6	3	36	0	159	391	0	0.00	-335.88
11+37.4	16.96	28.48	11.00	114.45	0.00	16	7	74	0	175	483	0	0.00	-419.28
11+45.43	8.04	31.80	11.00	97.22	0.00	9	3	32	0	184	523	0	0.00	-452.98
11+50	4.57	33.54	11.00	82.75	0.00	6	2	15	0	190	542	0	0.00	-468.33
11+70	20.00	42.21	11.00	43.87	0.00	28	8	47	0	218	601	0	0.00	-507.04
12+00	30.00	16.36	11.00	14.38	0.00	33	12	32	0	250	641	0	0.00	-527.18
12+11.65	11.65	17.57	11.00	9.82	0.00	7	5	5	0	258	647	0	0.00	-531.13
12+19.68	8.03	10.44	11.00	0.71	0.00	4	3	2	0	262	649	0	0.00	-532.19

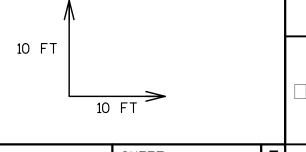
1) Common Excavation is the sum of the Cut and EBS Excavation columns, Item number 205.0100 2) Salvaged/Unsuable Pavement Material is included in Cut.

3) EBS Excavation to be backfilled with Select Borrow material.
4) Reduced EBS in Fill - Excavated EBS material is usuable in Fills outside the 1:1 slope. EBS in Fill Reduction factor = 0.8

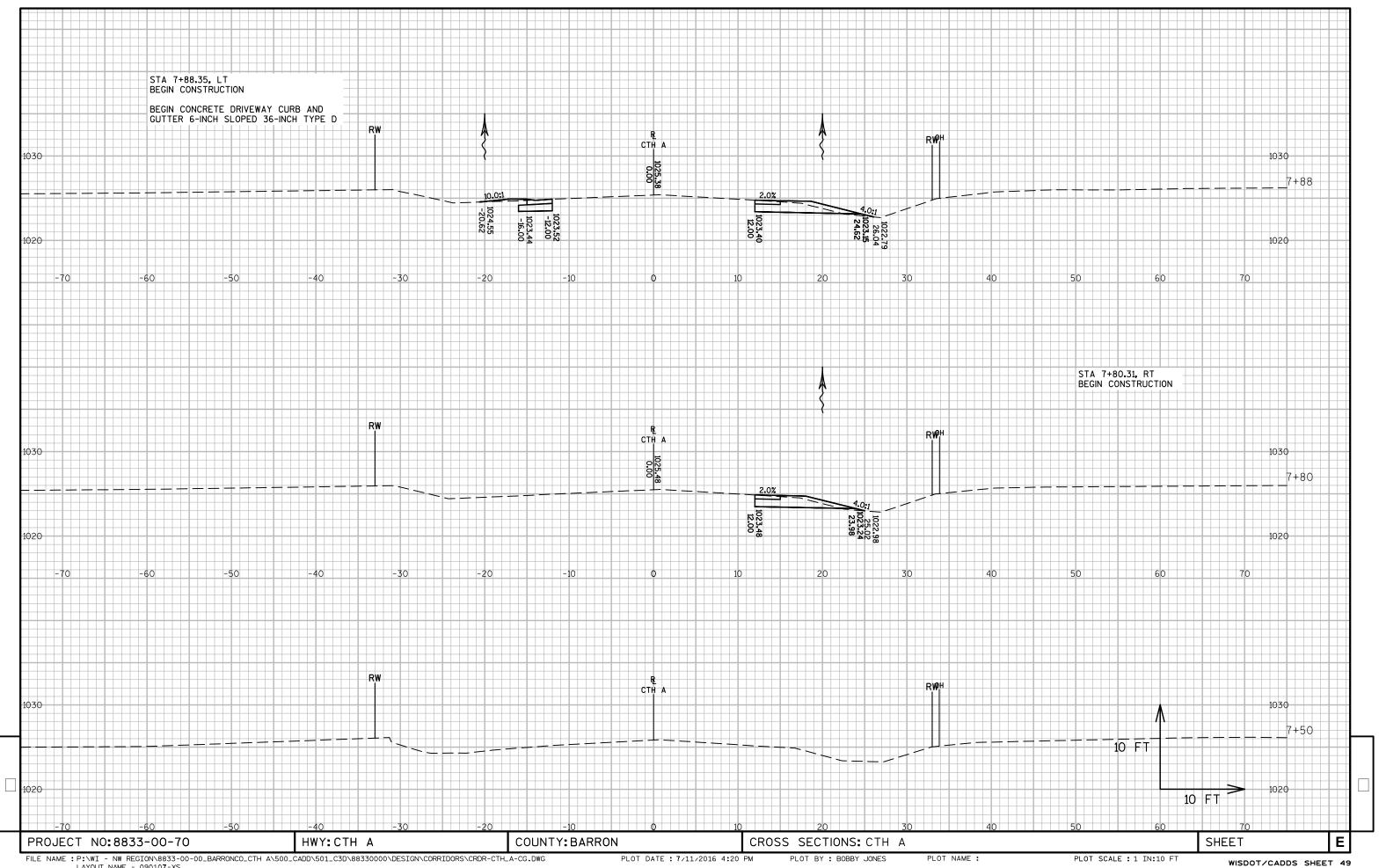
5) Expanded EBS Backfill - This is to be filled with Select Borrow material. EBS Backfill Factor = 1.3. Item number 208.1100
6) Expanded Fill. Factor = 1.25 Expanded Fill - Reduced EBS) * Fill Factor

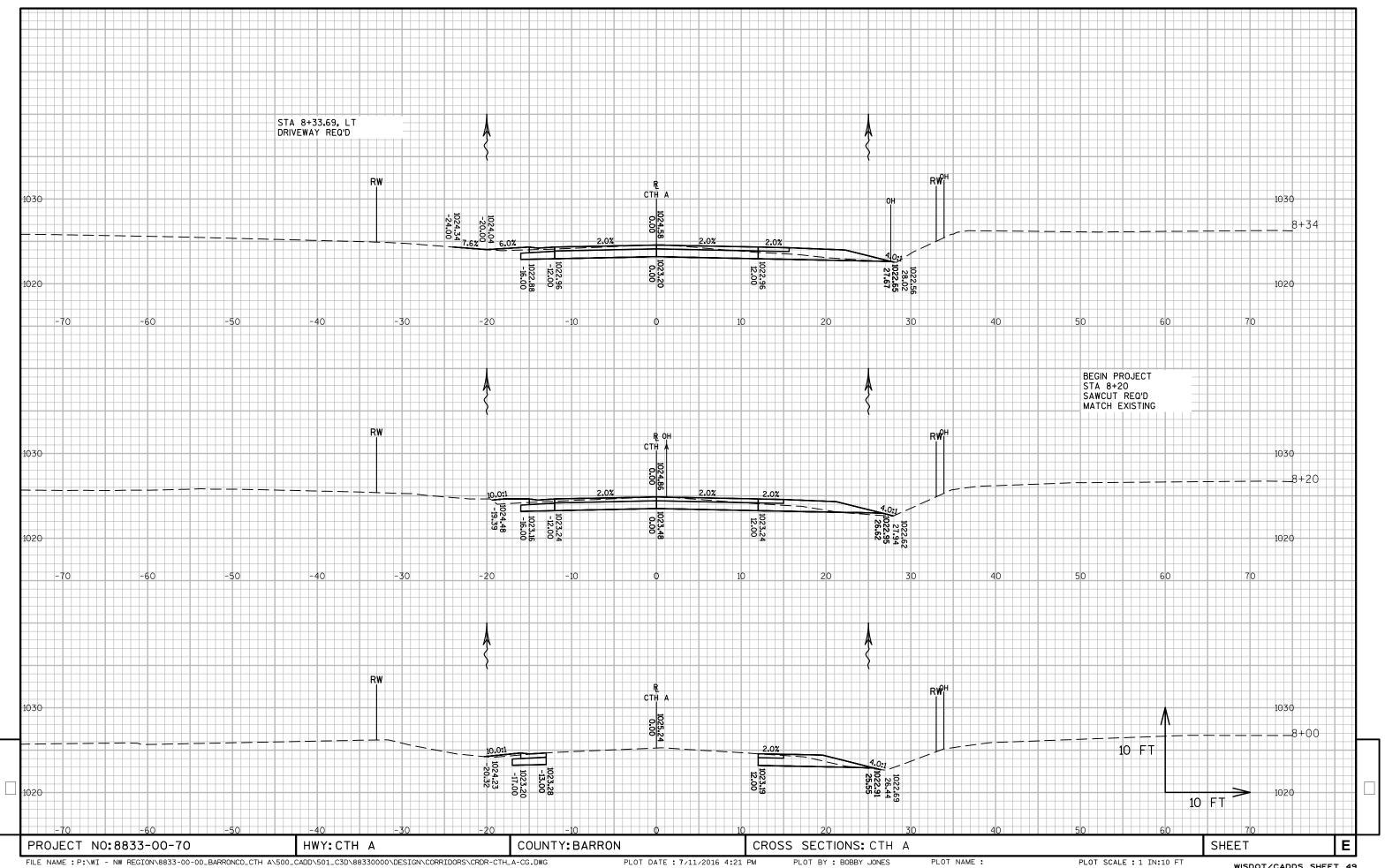
7) The Mass Ordinate + or - Qty calculated for the Division. Plus quantity indicates an excess of material within the Division. Minus indicates a shortage of material within the Division.

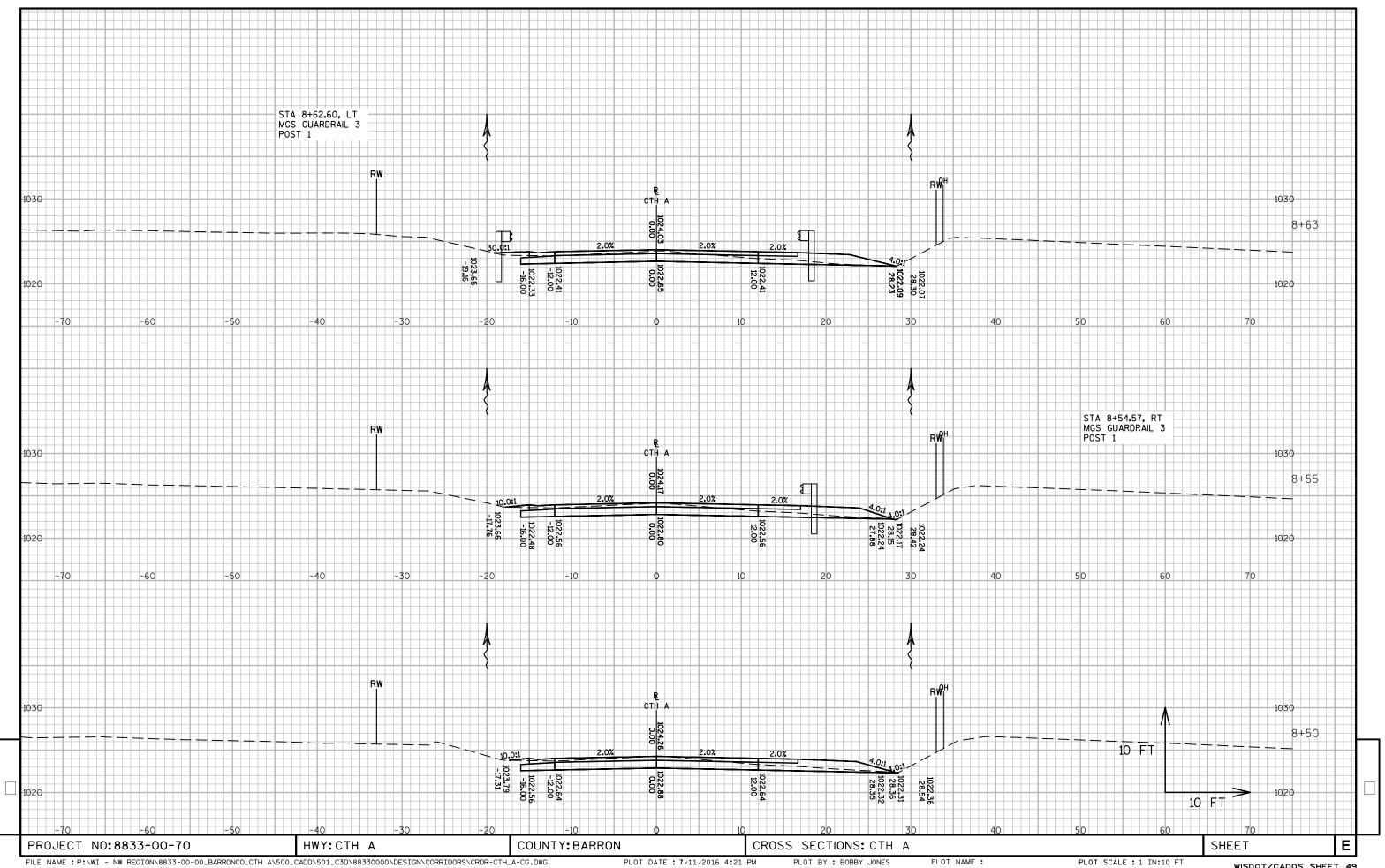
8) Use 117 CY of material from Division 1. Borrow Excavation item number 208.0100

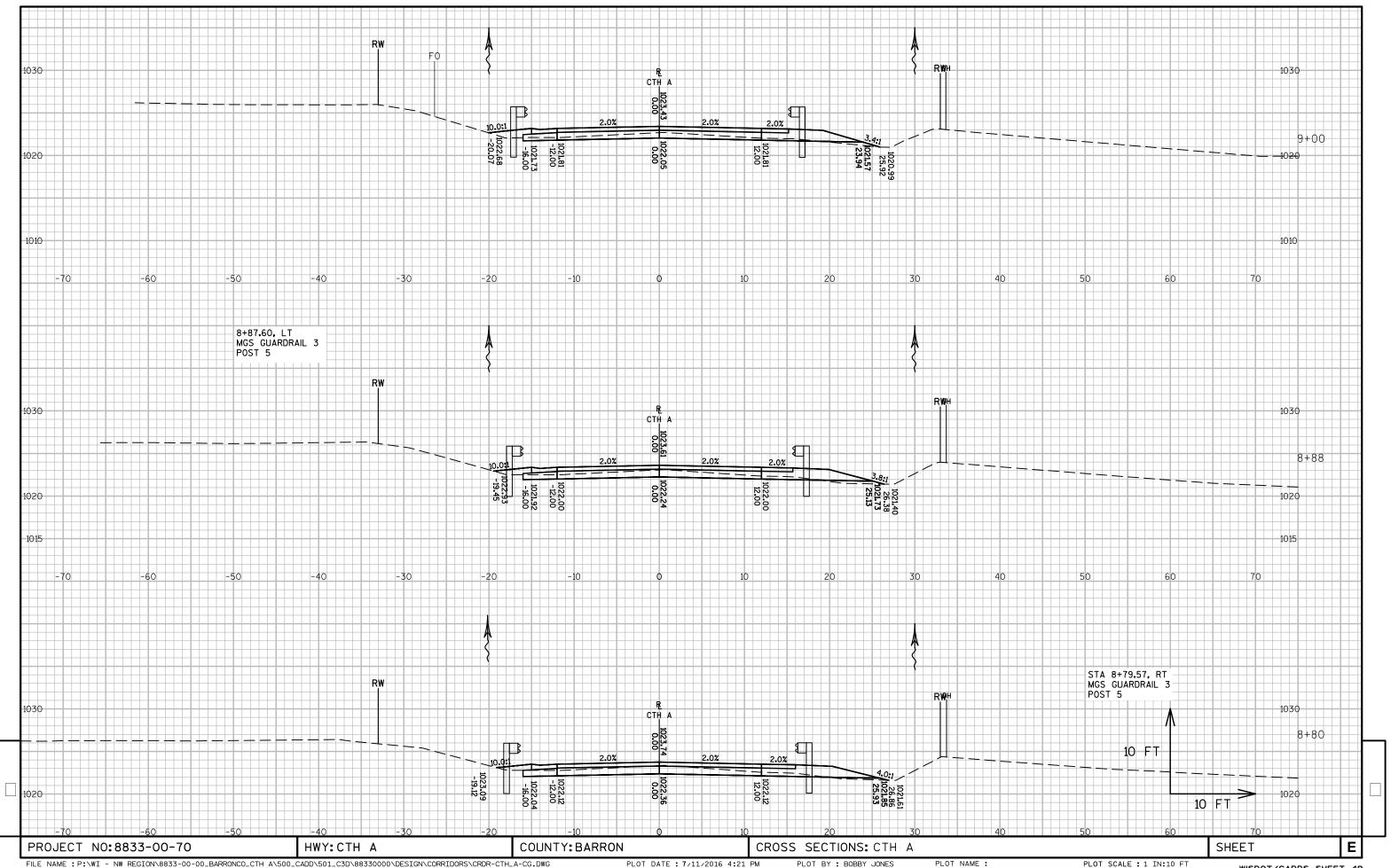


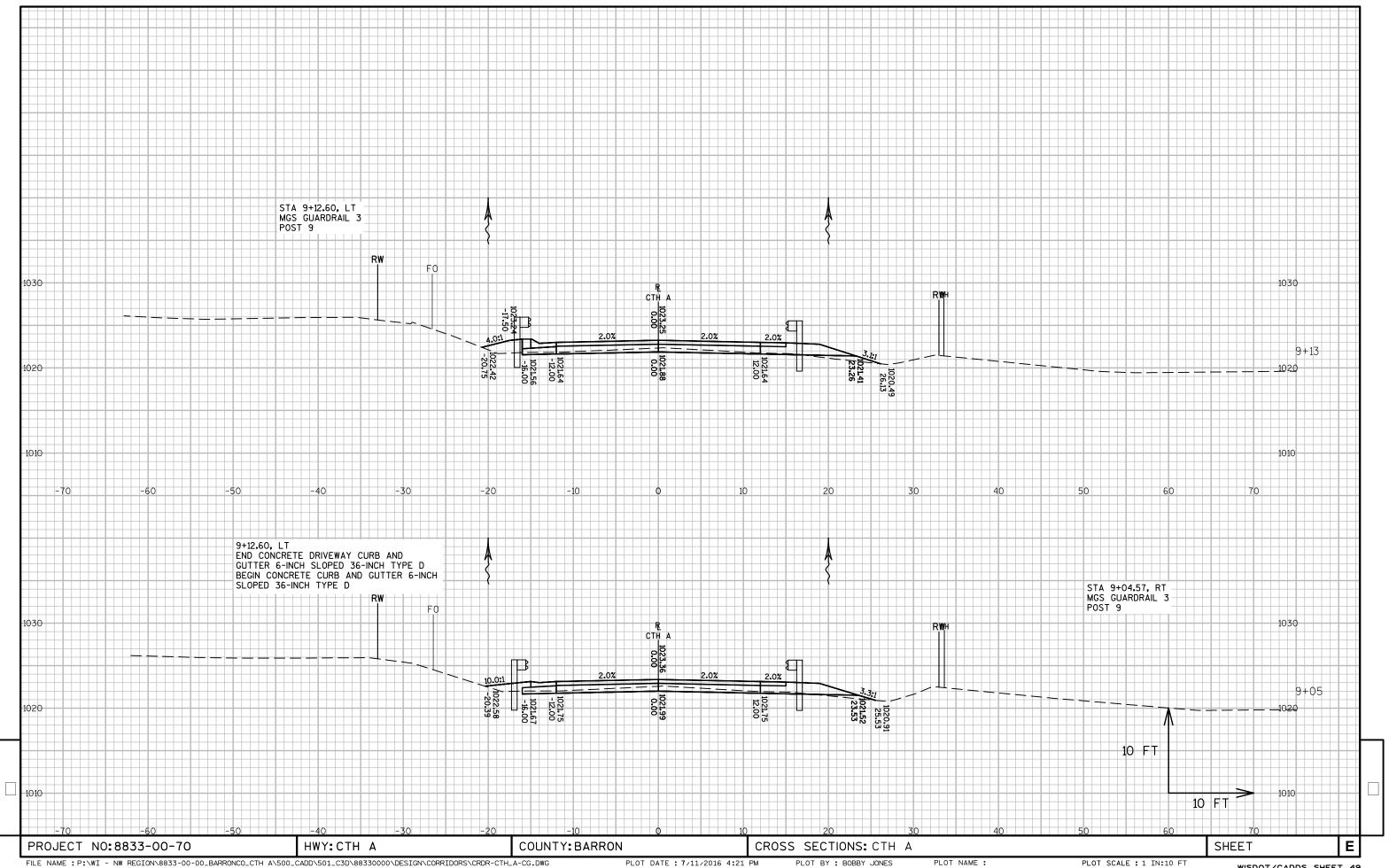
PROJECT NO:8833-00-70 COUNTY: BARRON SHEET Ε HWY: CTH A EARTHWORK PLOT NAME :

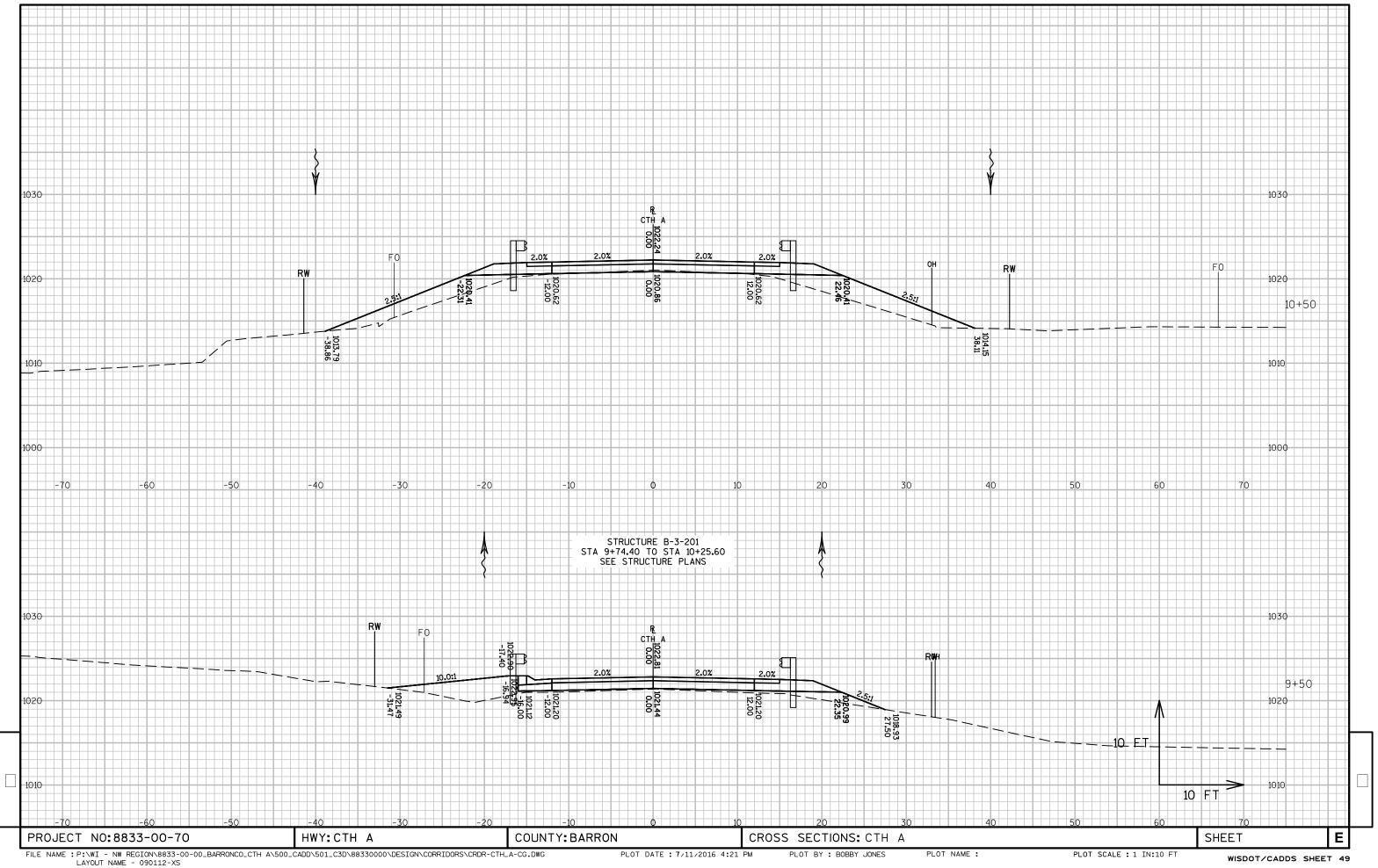


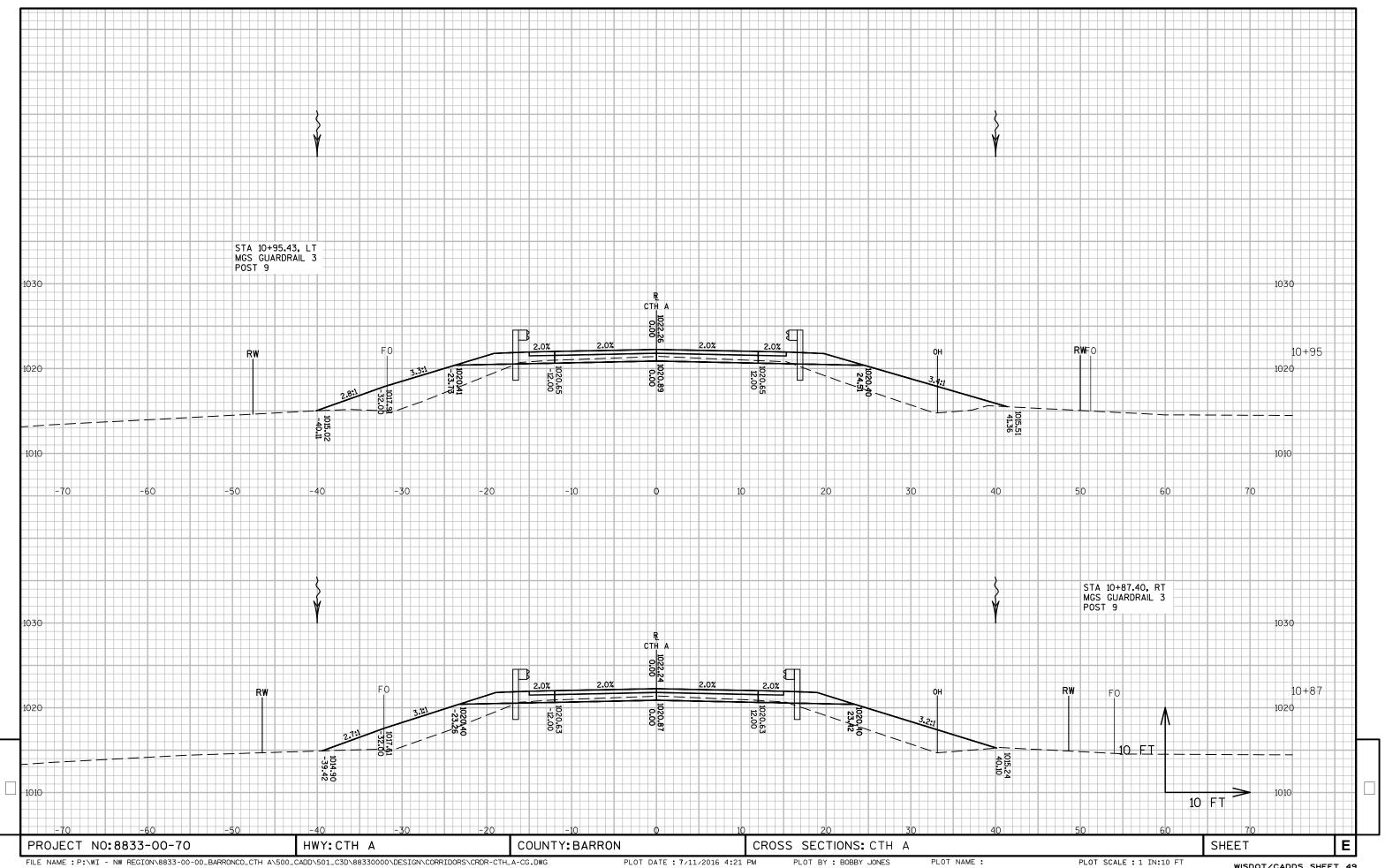


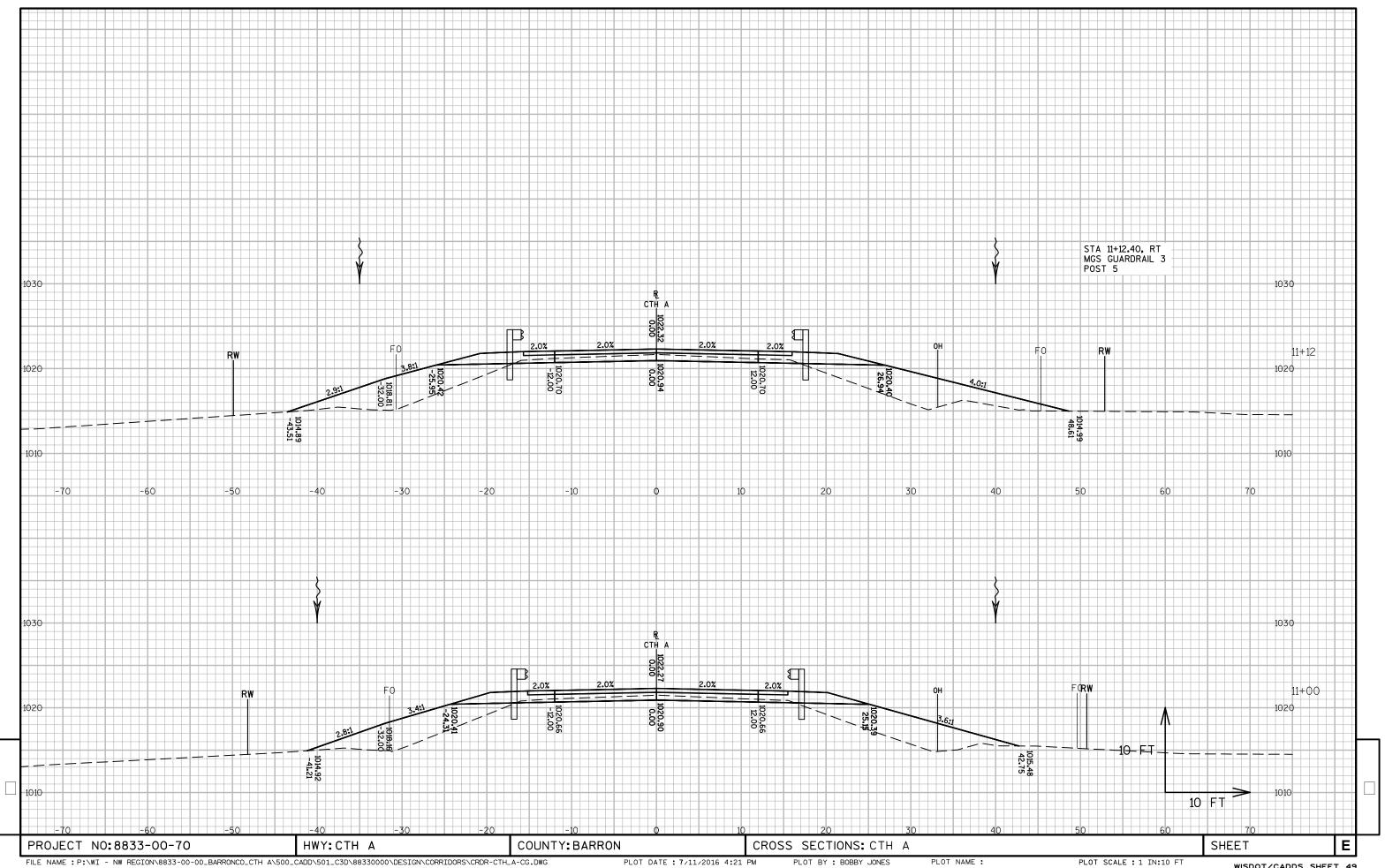


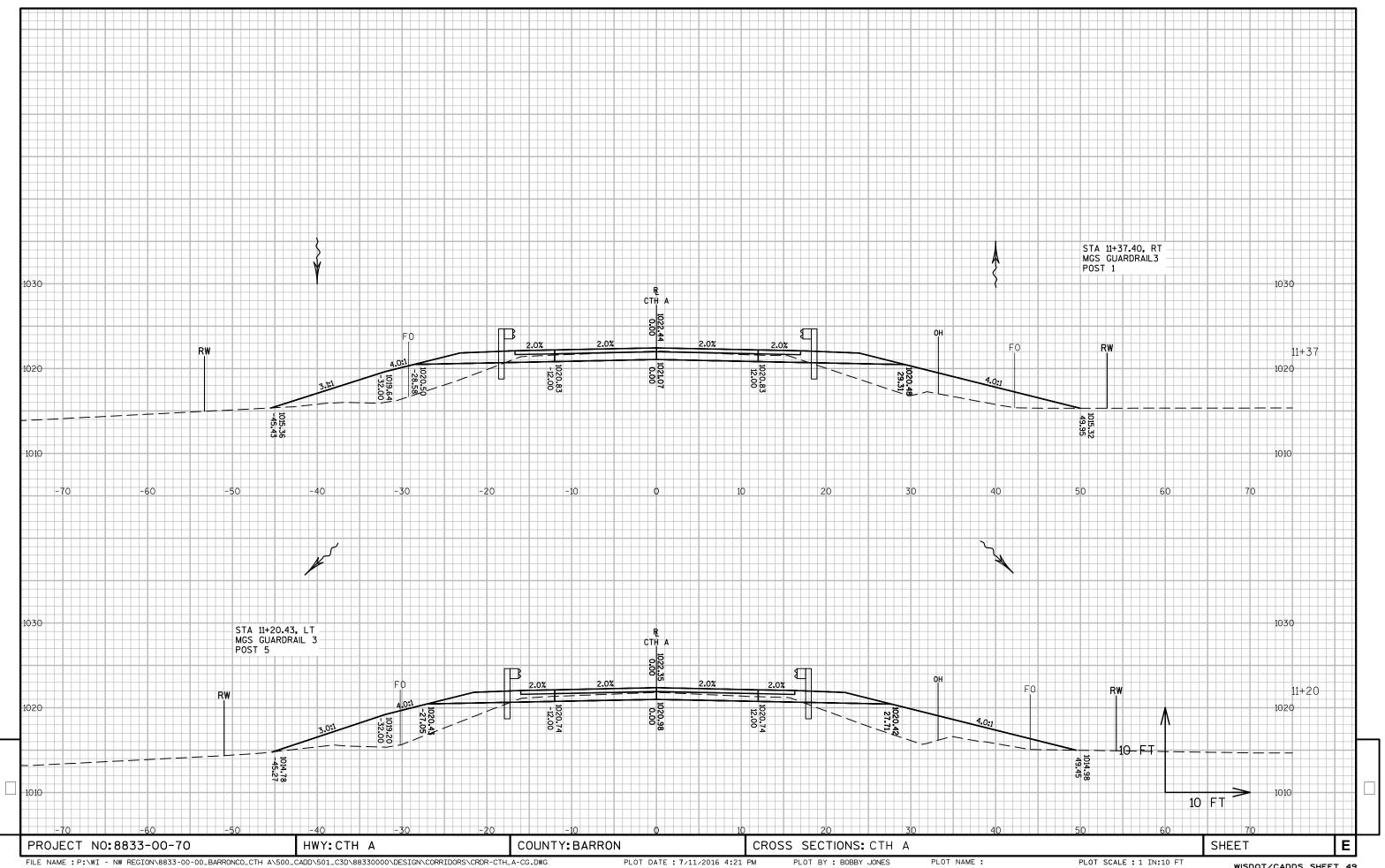


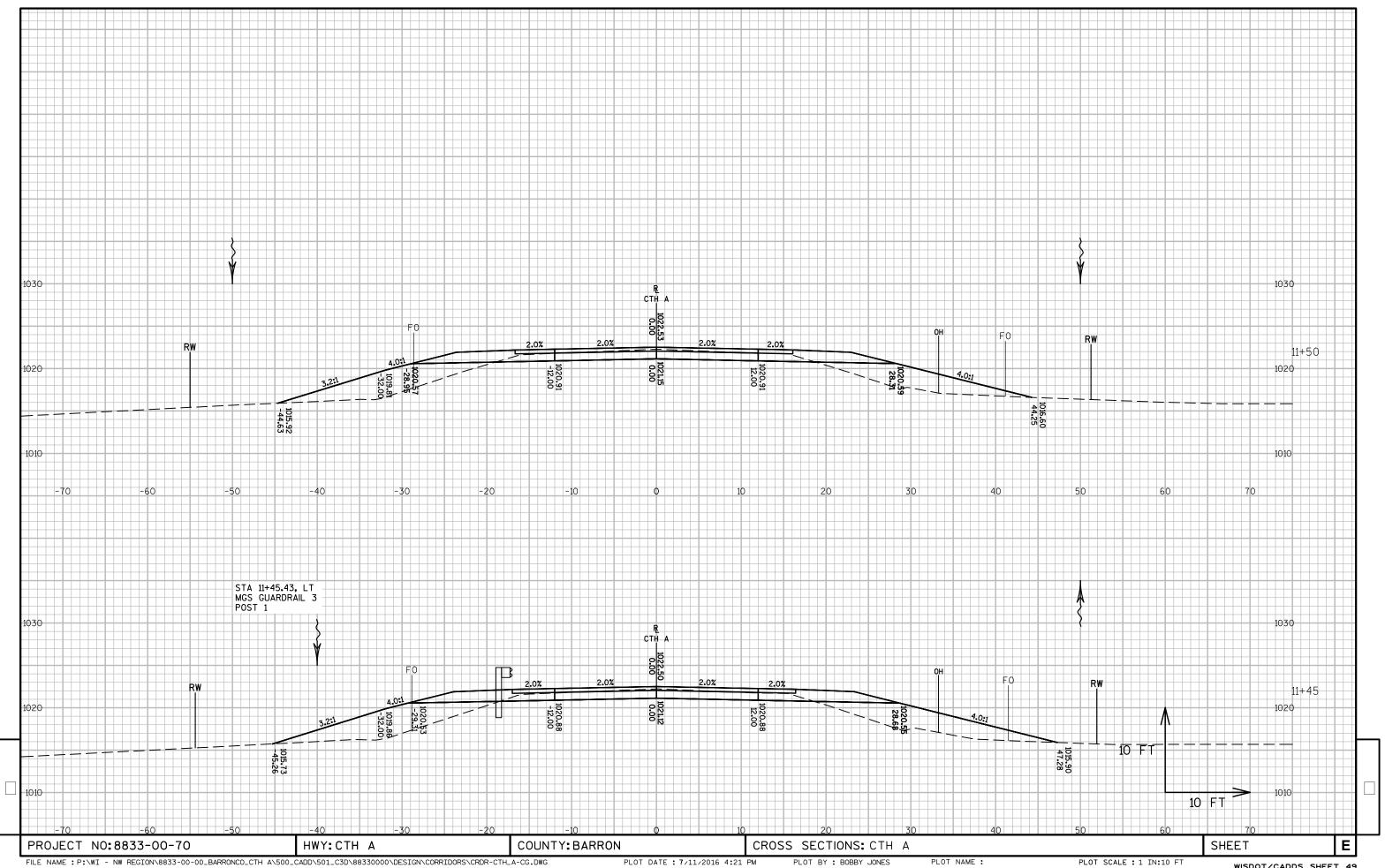


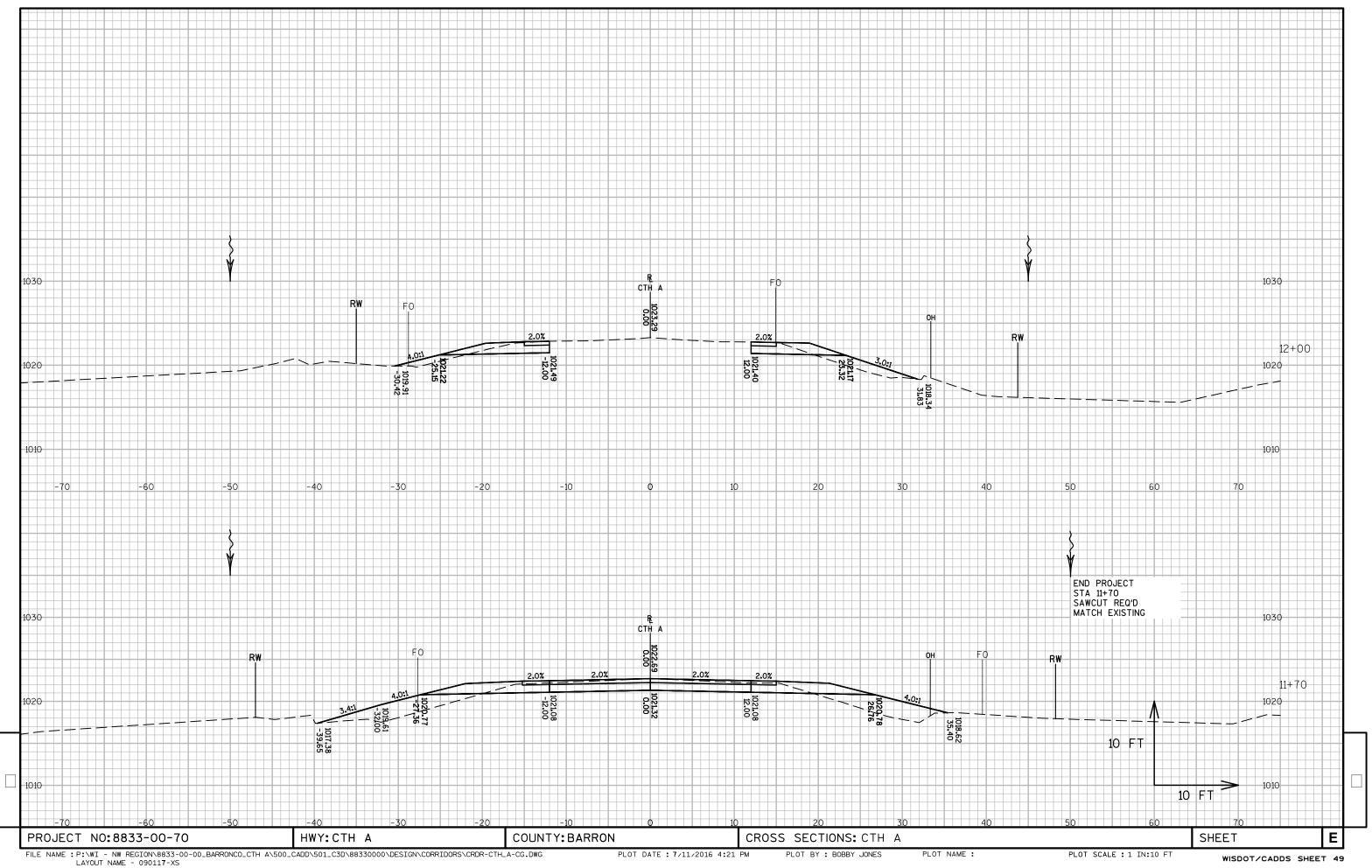




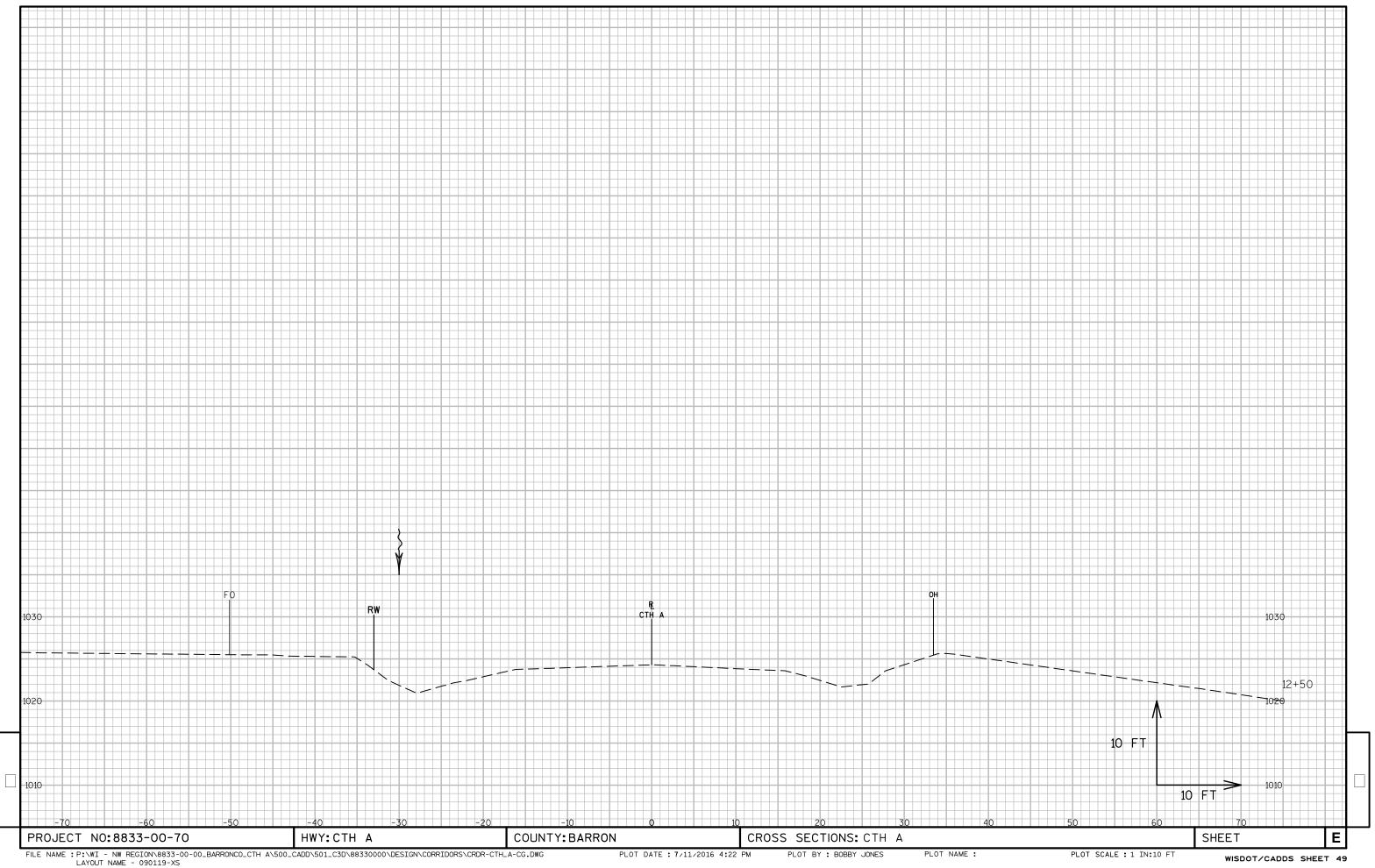












Notes



Wisconsin Department of Transportation

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