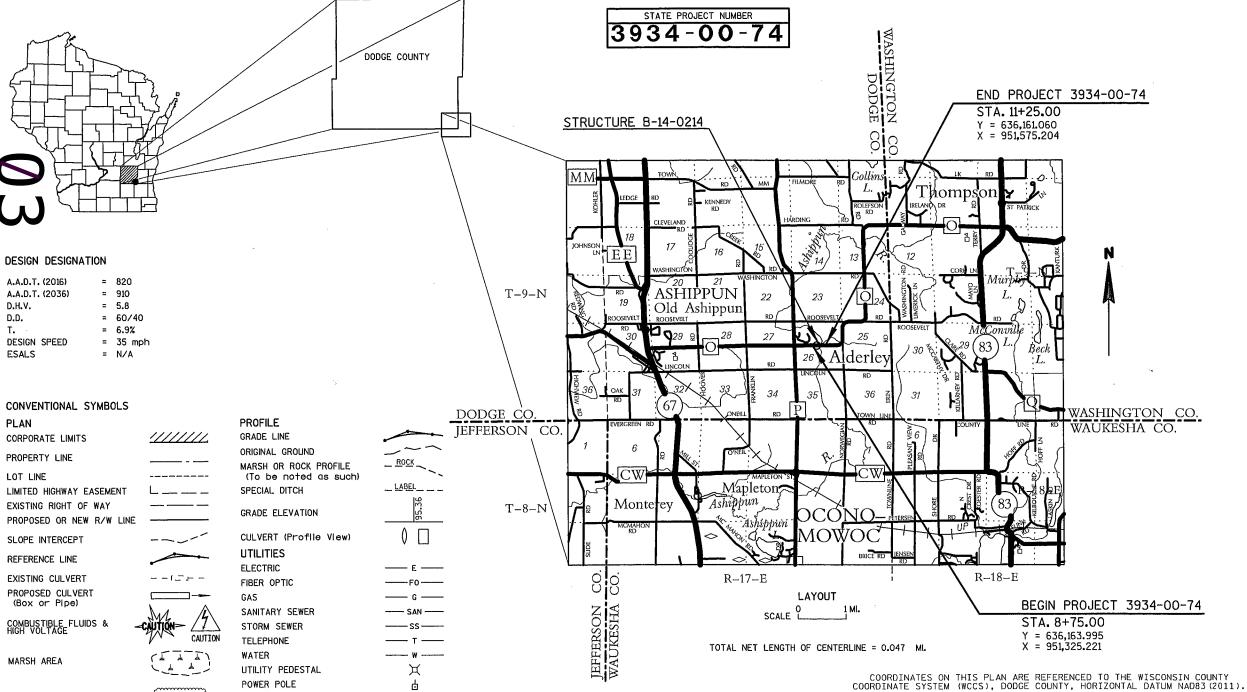
STATE	E OF	WISCONSIN	
DEPARTMENT	OF	TRANSPORTA	TION
PLAN OF	PROPOS	SED IMPROVEMENT	

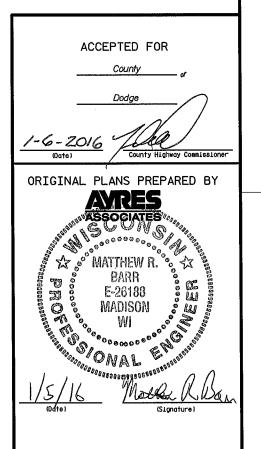
FEDERAL PROJECT STATE PROJECT **PROJECT** CONTRACT 3934-00-74

STH 67 - STH 83

(ASHIPPUN RIVER BRIDGE B-14-0214)

CTH O **DODGE COUNTY**





STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION

PREPARED BY Surveyor

AYRES ASSOCIATES

AYRES ASSOCIATES

Kjohnson Englneers, inc.

APPROVED FOR THE DEPARTMENT

PLOT DATE: 11/25/2015

PLOT SCALE : 1:200

WOODED OR SHRUB AREA

TELEPHONE POLE

Typical Sections and Details

Plan and Profile (includes Erosion Control)

Estimate of Quantities Miscellaneous Quantities

Standard Detall Drawings

Computer Earthwork Data

Right of Way Plat

Sign Plates

Structure Plans

Cross Sections

GENERAL NOTES

EROSION CONTROL ITEMS TO BE PLACED AS SHOWN ON THE PLAN OR AS DIRECTED BY THE ENGINEER.

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

SEED MIXTURES NO.20 AND TEMPORARY SHALL BE USED IN THE PROJECT, AND SHALL BE PLACED AS SHOWN IN THE PLANS AND/OR AS DIRECTED BY THE ENGINEER.

WETLANDS ARE PRESENT AT THE LOCATIONS SHOWN IN THE PLANS. DO NOT OPERATE MACHINERY OUTSIDE OF THE SLOPE INTERCEPTS IN THESE LOCATIONS.

THE LOCATIONS OF EXISTING AND PROPOSED UTILITY INSTALLATIONS AS SHOWN ON THE PLANS ARE APPROXIMATE. THERE MAY BE OTHER UTILITY INSTALLATIONS WITHIN THE PROJECT AREA THAT ARE NOT SHOWN. THE CONTRACTOR IS RESPONSIBLE FOR FIELD LOCATING ALL UTILITIES.

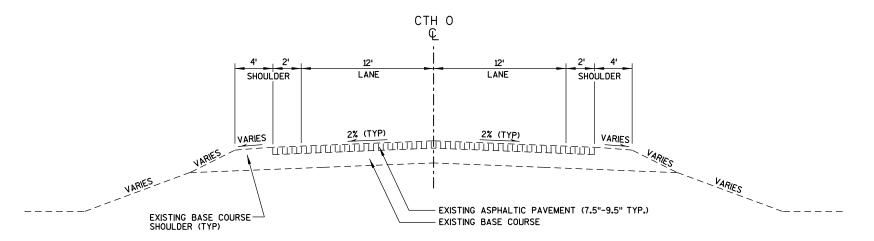
COORDINATES ON THIS PLAN ARE REFERENCED TO THE WISCONSIN COUNTY COORDINATE SYSTEM (WCCS), DODGE COUNTY, HORIZONTAL DATUM NADB3 (2011).

HMA LAYERS:

- UPPER: 1 3/4" (4 LT 58-28 S) - LOWER: 2 1/4" (3 LT 58-28 S)

STANDARD ABBREVIATIONS

Α.	ANNUAL	P.C.	POINT OF CURVATURE
A.A.D.T.	ANNUAL AVERAGE DAILY TRAFFIC	P.I.	POINT OF INTERSECTION
AC.	ACRES	P.K.	PARKER-KALON
B.M.	BENCH MARK	P.L.	PROPERTY LINE
Œ.	CENTERLINE	P.P.	POWER POLE
CONC.	CONCRETE	P.T.	POINT OF TANGENCY
COR.	CORNER	R	RADIUS
CULV.	CULVERT	R <u>.</u>	REFERENCE LINE
D.H.V.	DESIGN HOURLY VOLUME	RT.	RIGHT
EL.	ELEVATION	SEC.	SECTION
н.	HOUSE	STA.	STATION
I.P.	IRON PIPE	TYP.	TYPICAL
LT.	LEFT	X	EAST COORDINATE
MON.	MONUMENT	Υ	NORTH COORDINATE



TYPICAL EXISTING SECTION

CONTACTS

DODGE COUNTY PUBLIC WORKS

PETE THOMPSON
ASST. COMMISSIONER
HIGHWAY DEPT.
211E. CENTER STREET
JUNEAU, WI 53039-1309
P: (920) 386-3650
F: (920) 386-3525
E: PTHOMPSON@CO.DODGE.WI.US

TOWN OF ASHIPPUN

DAN VANDERMOLEN HIGHWAY SUPERVISOR PO BOX 206 ASHIPPUN, WI 53003 P: (262) 443-2480 E: HIGHWAY@TOWNOFASHIPPUN.ORG

DESIGNER

MATT BARR
AYRES ASSOCIATES
5201 EAST TERRACE DRIVE, SUIT 200
MADISON, WI 53718
P: (608) 443-1261
E: BARRM@AYRESASSOCIATES.COM

WISCONSIN DEPARTMENT OF NATURAL RESOURCES

ERIC HEGGELUND
DNR SOUTH CENTRAL REGION HQ
3911 FISH HATCHERY ROAD
FITCHBURG, WI53711
P: (608) 275-3301
E: ERIC.HEGGELUND@WISCONSIN.GOV

UTILITIES

TIME WARNER CABLE
STEVE STORM
1320 N DR. MARTIN LUTHER KING JR. DRIVE
MILWAUKEE, WI 53212
P: (414) 908-4789
C: (414) 239-4106
E: STEVEN.STORM@TWCABLE.COM

FRONTIER COMMUNICATION RYAN OSNESS 100 COMMUNICATIONS DRIVE SUN PRAIRIE, WI 53590 P: (608) 837-7455 E: RYAN.D.OSNESS@FTR.COM

TOWN OF ASHIPPUN FIRE DEPARTMENT DEONNE ESKE - FIRE CHIEF PO BOX 146 W2464 OAK STREET ASHIPPUN, WI 53003 P: (920) 253-6101 E: DESKE@WLRR.COM

WE ENERGIES - ELECTRIC BRYAN STOEHR 245 SAND DRIVE WEST BEND, WI53095 P: (414) 944-5516 E: BRYAN.STOEHR@WE-ENERGIES.COM

WE ENERGIES - GAS NICK ERNSTER 500 SOUTH 116TH ST WEST ALLIS, W153214 P: (414) 944-5574 C: (414) 640-4271 E: NICHOLAS.ERNSTER@WE-ENERGIES.COM



** DENOTES UTILITIES THAT ARE NOT DIGGERS HOTLINE MEMBERS

PROJECT NO: 3934-00-74

HWY: CTH O

COUNTY: DODGE

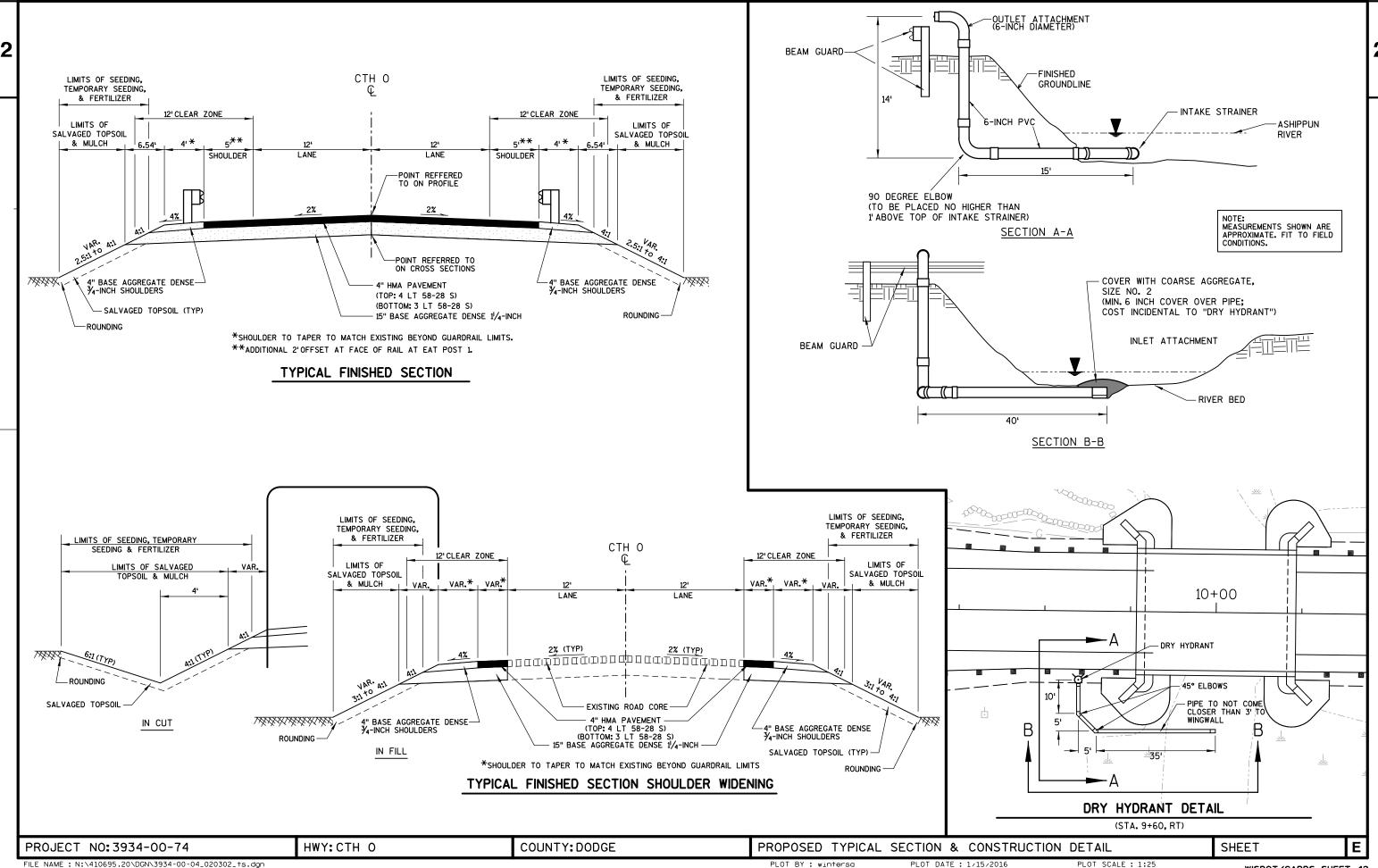
GENERAL NOTES & EXISTING TYPICAL SECTION

SHEET

FILE NAME: N:\410695.20\DGN\3934-00-04_020301_ts.dgn

PLOT BY: wintersa

PLOT DATE: 1/18/2016



PLOT BY: wintersa PLOT DATE: 1/15/2016 PLOT SCALE: 1:25 WISDOT/CADDS SHEET 42

MIRCEN TIEM TIEM STORK PTION DIT TOTAL DUANTITY DIT 201 202 203 6000 Semipting of Structure Over Naterway 10 18 000 18	DATE 02	MAR16	E :	STIMATE	OFQUAN		
100 201 0220 021 0200 020	LINE	1.754	LTEM DECCRIPTION		TOT * '		
202 203, 0600. S. Removing old Structure Over Waterway LS 1,000 1,00							
With Minimal Debris (Station) 0.1 10-00 Executable for Common **P** Executable for Structures Bridges LS 1.000 1.0							
130	020	203. 0600. 5			1. 000	1. 000	
200. 1000 Excavation for Structures Bridges LS 1.000 1.000			With Minimal Debris (station) 01. 10+0				
Security 01. B=14-214 Security 01. B=14-214 Security S	030						
10,000 Backfill Structure	040	206. 1000		LS	1. 000	1. 000	
Finishing Roadway (project) 01. EACH 1.000 1.000 3934-00-74			(structure) 01. B-14-214				
3934-00-74 3934-00-74 3934-00-74 3934-00-74 3934-00-74 3934-00-74 3934-00-74 3935-00-10 38as Aggregate Dense 3/4-Inch TON 1,307.000 1,307.000 1,307.000 130.000 390.00	0050	210. 0100	Backfill Structure	CY	220.000	220.000	
3934-00-74 3934-00-74 3934-00-74 3934-00-74 3934-00-74 3934-00-74 3934-00-74 3935-00-10 38as Aggregate Dense 3/4-Inch TON 1,307.000 1,307.000 1,307.000 130.000 390.00							
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10.5 10.5	0070	305. 0110	Base Aggregate Dense 3/4-Inch	TON	99. 000	99. 000	
185. 0605 Tack Coât Tack	080	305. 0120		TON	1, 307, 000	1, 307, 000	
	090	455. 0605		GAL			
10	100						
200 460. 5224 HMA Pavement 4 LT 58-28 S TON		.00.2000	The series of th	202	100.000		
200 460. 5224 HMA Pavement 4 LT 58-28 S TON	10	460 5223	HMA Pavement 3 LT 58-28 S	TON	115 000	115 000	
Soc. 20100 Concrete Masonry Bridges							
400 502, 3200							
Soc. 3210 Pigmented Surface Sealer SY 38.000 38.000							
Sob. 0400 Bar Steel Reinforcement HS Structures LB 25, 220, 000 5, 220, 000 5, 220, 000 5, 250, 000							
S56.060	130	502. 3210	rigilienteu sui race searer	31	38. UUU	38. UUU	
S50,000 Sar Steel Reinforcement HS Coated LB 25,620,000 25,620,000 Structures Stru	<u> </u>	EOE 0400	Don Chool Doinforcement UC Charact		E 220 200	E 220 220	
Structures							
S16.0500 Rubberized Membrane Waterproofing SY 20.000 20.	170	505. 0600		LB	25, 620. 000	25, 620. 000	
Second File Points Second File File Points Second File File				a			
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10 606 608 608 608 609	0190						
120 612 0406 Pipe Underdrain Wrapped 6-Inch LF 150 0000	0200	550. 1100	Piling Steel HP 10-Inch X 42 Lb	LF	240. 000	240. 000	
120 612 0406 Pipe Underdrain Wrapped 6-Inch LF 150 000							
Company	0210		Ri prap Heavy		120. 000	120. 000	
Guard Guar	0220	612. 0406	Pipe Underdrain Wrapped 6-Inch	LF	150.000	150.000	
Guard Guar	0230	614. 0150	Anchor Assemblies for Steel Plate Beam	EACH	4. 000	4. 000	
Add Add							
Solution Solution	0240	614. 0920	Sal vaged Rai I	LF	158. 000	158, 000	
150	0250						
A							
170	0260	614, 2500	MGS Thrie Beam Transition	I F	157, 600	157, 600	
10	0270						
190 624, 0100 Water MGAL 21, 000 21, 000 21, 000 21, 000 22, 000 22, 000 22, 000 23, 000 24, 0100 24, 000							
SY 645.000							
10							
120 628.1504 Silt Fence LF 790.0000 790.000 790.000 790.000 790.000 790.000 790.000	300	625. 0500	Sai vaged TopSoTT ""P""	31	645.000	645.000	
120 628.1504 Silt Fence LF 790.000	210	<u> </u>	Mul objec **D**	CV	/ 45 000	/ 45 000	
Silt Fence Maintenance							
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190 645.0120 Geotextile Fabric Type HR SY 220.000 220.000	470		Field Office Type B				
190 645.0120 Geotextile Fabric Type HR SY 220.000 220.000	480						
	90	043.0120					

DATE 02 LINE	MAR16	E S	TIMATI	E OF QUAN	T I T I E S 3934-00-74
	ITEM	I TEM DESCRIPTION	UNI T	TOTAL	QUANTI TY
0510	650. 5000	Construction Staking Base	LF	335.000	335. 000
0520	650. 6500	Construction Staking Structure Layout (structure) 01. B-14-214	LS	1. 000	1. 000
0530	650. 9910	Construction Staking Supplemental Control (project) 01. 3934-00-74	LS	1. 000	1. 000
0540	650. 9920	Construction Staking Slope Stakes	LF	335.000	335.000
0550	690. 0150	Sawi ng Asphal t	LF	310.000	310. 000
0560	715. 0502	Incentive Strength Concrete Structures	DOL	1, 200. 000	1, 200. 000
0570	SPV. 0105	Special O1. DRY HYDRANT	LS	1. 000	1. 000

CTH O EARTHWORK SUMMARY

From/To Station	Location	Common Excavation* (1) (item # 205.0100) Cut	Unexpanded Fill	Expanded Fill (2) Factor 1.30	Mass Ordinate +/- (3)	Waste	Borrow (item #208.0100)	Comment:
8+09 - 11+86	CTH O	592	197	256	336	336		

1) Common Excavation is the Cut. Item number 205.0100.

REMOVING SIGNS & SUPPORTS

- 2) Expanded Fill. Factor = 1.30; Expanded Fill = Unexpanded Fill * Fill Factor
- 3) The Mass Ordinate + or Qty calculated for the Division. Plus quantity indicates an excess of material on the project.
- 4) All quantities shown in CY.

*PAY PLAN QUANTITY

GRUBBING

			201.0220
STATION	OFFSET	LOCATION	ID
9+15	32.5'	LT	18
TOTALS			18

		638.2602	638.3000									
		REMOVING	REMOVING									
		SIGNS	SMALL SIGN							<u>GUARDRAIL</u>		
		TYPE II	SUPPORTS									
STATION	O/S	EACH	EACH	NOTES					614.0920	614.0925	614.2500	614.2610
9+75	LT & RT	2	2	EXISTING TIGER STRIPE MARKERS								
9+75	RT	1	1	LOITERING OR FISHING FROM BRIDGE PROHIBITED					SALVAGED	SALVAGED	MGS THRIE	MGS GUARDRAIL
9+75	RT	1	1	FIRE DEPT NO PARKING PUMP SITE					RAIL	GUARDRAIL	BEAM TRANSITION	TERMINAL EAT
10+25	LT & RT	2	2	EXISTING TIGER STRIPE MARKERS						END TREATMENTS		
10+25	LT	2	1	30 MPH SPEED LIMIT & ALDERLEY SIGN	STA	то	STA	LOCATION	LF	EACH	LF	EACH
10+25	LT	1	1	LOITERING OR FISHING FROM BRIDGE PROHIBITED						LACII		
11+00	RT	1	1	55 MPH SPEED LIMIT	8+09		9+78	LT & RT	79	2	78.8	2
					_10+22		11+86	LT & RT	79	2	78.8	2
TOTALS		10	9		-							
					TOTALS	;			158	4	157.6	4

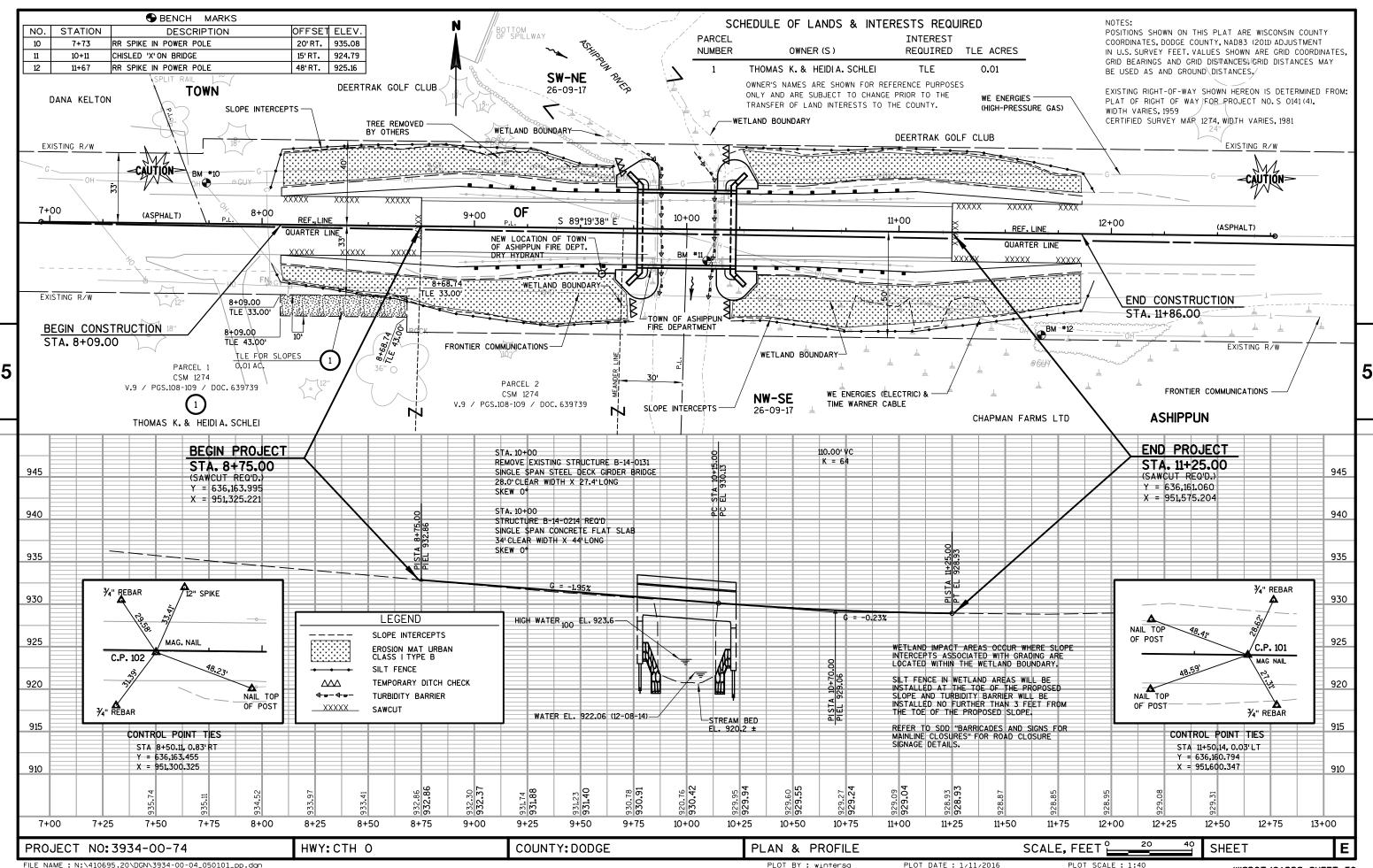
PAVING AND BASE QUANTITIES

			305.0110	305.0120	455.0605	460.2000	460.5223	460.5224	624.0100	FINISHING	ROADWAY	MOBILIZ	7ΔΤΙΩΝ
			BASE AGGREGATE	BASE AGGREGATE	TACK	INCENTIVE	HMA PAVEMENT	HMA PAVEMENT	WATER	(ID 3934		WODILIZ	<u> ZATION</u>
			DENSE 3/4-INCH	DENSE 1 1/4-INCH	COAT	DENSITY HMA PAVEMENT	3 LT 58-28 S	4 LT 58-28 S		<u></u>			619.1000
STA	то	STA	TON	TON	GAL	DOL	TON	TON	MGAL		213.0100.01	CATEGORY	EACH
•	10								_	LOCATION	EACH	0010	0.3
8+09		9+78	48	628	30	62	55	42	10.1	MAINLINE	1	0020	0.7
10+22		11+86	46	617	30	61	54	42	9.9	TANTINETIVE			
UND	ISTRIE	BUTED	5	62	3	7	6	4	1.0	TOTAL	1	TOTAL	1
TOTALS			99	1,307	63	130	115	88	21.0				

ALL QUANTITIES CATEGORY 0010 UNLESS OTHERWISE NOTED

PROJE	ECT NO: 3934-00-74	HWY: CTH O	COUNTY: DODGE	MISCELLANEOUS QUANTITIES	SHEET NO:	E
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						EROSION	CONTROL ITEMS	<u>S</u>							
Total State Stat				SALVAGED	O* MULCHING	* SILT FENCE	SILT FENCE	EROSION	FERTILIZER*	SEEDING* MIXTURE	SEEDING*	SEEDING BORROW	<u>EROSION</u>	628.1905	628.1910
Mode														EROSION	EMERGENCY
Mode														CONTROL	EROSION
Mart										-	•				CONTROL
14 1											· ·		LOCATION	EACH	EACH
MODIFIED Fig. 10													ID 3934-00-74	2	2
TOTALS			LT							-	· ·	2		_	_
Part	UNDISTRI	BUTED		60	60	70	70	100	0.1	3	3	1	TOTALS	2	2
Turn				645	645	790	790	1,080	1.3	28	28	10			
TURBIDITY BARRIERS STANDING	PAY PLAN Q	UANTITY												FIELD OFFICE TY	<u>PE B</u>
Table 1										OBJECT MA	ARKERS				642.5001
TURNSIDITY BARRIES 1					TEMPORAR	Y DITCH CHECKS				634.0612	637.2230)		CATEGORY	EACH
Column C	TURBIDI	TY BARRIE	<u>RS</u>						Р					0010	0.3
						628.7	504							0020	0.7
NORTH ABUT TO NORTH ABUT		628	3.6005		LOCATION O	FFSET LF		STATION L					 E		
NORTH ABUT 70 NORTH ABUT 17 12.5 19.75 RT 1 3 W5-52R 1 3 W5-52R 1 1 1 3 W5-52R 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	LOCATION		SY	N	NORTH ABUT	LT 12.	5							TOTAL	1
SOUTH ABUT RT 12.5 10+25 RT 1 3 W5-52L	NORTH ABL			N	NORTH ABUT			9+75		1	3				
TOTAL 150 TOTAL 50 T								10+25	LT	1	3	W5-52R			
STAKING STAK	UNDISTRIBUT	ΓED	<u>15</u>	<u></u>	SOUTH ABUT	RT 12.	5	10+25	RT	1	3	W5-52L			
STAKING STAK	OTAL		150		TOTAL	50)	TOTALS		4	12			TRAFFIC CONTR	OL (ID 3934-00-74)
STAKING SO.															643.0100.01 FACH
CONSTRUCTION CONSTRUCTION CONSTRUCTION CONSTRUCTION STAKING SUPPLEMENTAL CONTROL STAKING S					STAKI	NG ITEMS								PROJECT 6208-00	
SUBGRADE BASE STRUCTURE LAYOUT (3934-00-74) SLOPE STATION LOCATION LF LF LS LS LF 11+25 - 11+86 LT & RT 150 DRY HYDRANT			CONST	RUCTION	CONSTRUCTION	CONSTRUCT	ION CONSTR	RUCTION STAKING	CONSTRUCT	ION				TOTAL	1
CATEGORY LOCATION LF LF LS LS LF LF LS LF LF										i					
CATEGORY LOCATION LF LF LS LS LS LF 11+25 - 11+86 LT & RT 150 0010 8+09 - 11+86 335 335 1 335 0020 B-14-0214 1 1 335 TOTALS 335 335 1 1 1 335 QUANTITIES CATEGORY 0010 UNLESS OTHERWISE NOTED CATEGORY 0030 INCLUDES NON-PARTICIPATIN			SUB	GRADE	BASE		•	3934-00-74)							
0010 8+09 - 11+86 335 335 1 335		LOCATIO	N I	1.5	ır	•	4)	LC						DRY H	<u>IYDRANT</u>
0020 B-14-0214 1 TOTAL 310 CATEGORY LS LS 0030 1 TOTAL TOTAL TOTAL 1 AUANTITIES CATEGORY 0010 UNLESS OTHERWISE NOTED CATEGORY 0030 INCLUDES NON-PARTICIPATIN											11+25 - 1	.1+86 LT & RT	150		
TOTALS 335 335 1 1 335 \frac{\text{CATEGORY LS}}{10030} \frac{1}{\text{TOTAL}} \frac{\text{CATEGORY 0030 Includes Non-Participatin}}{10030} \frac{1}{\text{TOTAL 1}} \frac{\text{CATEGORY 0030 Includes Non-Participatin}}{10030} \text{CATEGORY 0030 Includes Non-Participa						 1		_			TOTA	.1	210		
TOTALS 335 335 1 1 335 TOTAL 1 QUANTITIES CATEGORY 0010 UNLESS OTHERWISE NOTED CATEGORY 0030 INCLUDES NON-PARTICIPATIN	0020	D 14-021				1					1012	AL.	210		LS
QUANTITIES CATEGORY 0010 UNLESS OTHERWISE NOTED CATEGORY 0030 INCLUDES NON-PARTICIPATIN	TOTALS		:	335	335	1		1	335						<u> </u>
	QUANTITIES	CATEGOI	RY 0010 UNL	ESS OTHER	RWISE NOTED								CATEGOR		ON-PARTICIPATING
							COLINITY: D	NODOE	<u> </u>	MICOTILAN		ITICO			SHEET NO:



Standard Detail Drawing List

08E08-03	TYPICAL INSTALLATIONS OF EROSION BALES / TEMPORARY DITCH CHECKS
08E09-06	SILT FENCE
08E11-02	TURBI DI TY BARRI ER
12A03-10	NAME PLATE (STRUCTURES)
14B42-03A	MI DWEST GUARDRAI L SYSTEM (MGS) GUARDRAI L
14B42-03B	MIDWEST GUARDRAIL SYSTEM (MGS) GUARDRAIL
14B42-03C	MIDWEST GUARDRAIL SYSTEM (MGS) GUARDRAIL
14B44-02A	MIDWEST GUARDRAIL SYSTEM ENERGY ABSORBING TERMINAL (MGS)
14B44-02B	MI DWEST GUARDRAI L SYSTEM ENERGY ABSORBING TERMINAL (MGS)
14B44-02C	MIDWEST GUARDRAIL SYSTEM ENERGY ABSORBING TERMINAL (MGS)
14B45-04A	MIDWEST GUARDRAIL SYSTEM THRIE BEAM TRANSITION (MGS)
14B45-04B	MIDWEST GUARDRAIL SYSTEM THRIE BEAM TRANSITION (MGS)
14B45-04C	MIDWEST GUARDRAIL SYSTEM THRIE BEAM TRANSITION (MGS)
14B45-04I	MIDWEST GUARDRAIL SYSTEM THRIE BEAM TRANSITION (MGS)
14B45-04J	MIDWEST GUARDRAIL SYSTEM THRIE BEAM TRANSITION (MGS)
15C02-06A	BARRICADES AND SIGNS FOR MAINLINE CLOSURES
15C02-06B	BARRICADES AND SIGNS FOR MAINLINE CLOSURES

GENERAL NOTES

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

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



WHEN ALTERING THE DIRECTION OF FLOW



PLAN VIEW



FRONT ELEVATION

WHEN EXISTING GROUND SLOPES AWAY FROM FILL SLOPE

EROSION BALES FOR SHEET FLOW

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

STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION

APPROVED

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

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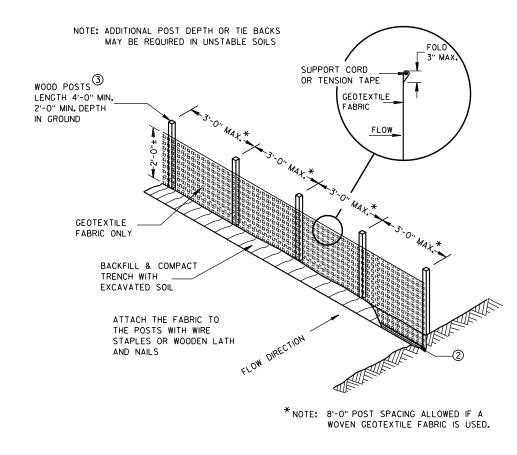
TYPICAL APPLICATION OF SILT FENCE

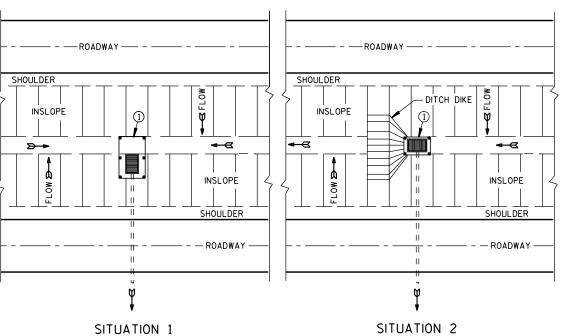
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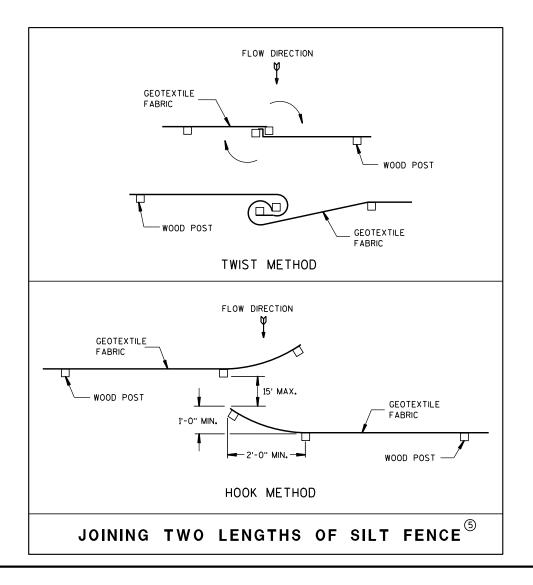
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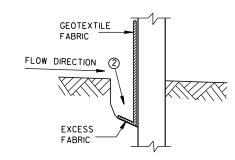
PLAN VIEW SILT FENCE AT MEDIAN SURFACE DRAINS



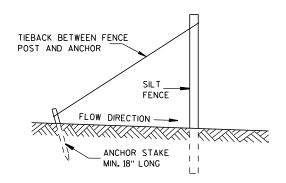
GENERAL NOTES

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.

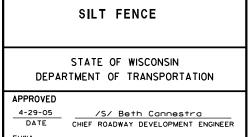


TRENCH DETAIL



SILT FENCE TIE BACK

(WHEN REQUIRED BY THE ENGINEER)



SILT FENCE

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GENERAL NOTES

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

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

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





SECTION C-C

TURBIDITY BARRIER DETAIL SHOWING TYPICAL PLACEMENT AT STRUCTURES

TURBIDITY BARRIER

STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION

APPROVED

6/04/02 /S/ Beth Cannestra
CHIEF ROADWAY DEVELOPMENT ENGINEER ∞

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TYPICAL NAME PLATE

(BRIDGES, CULVERTS, AND RETAINING WALLS)



NUMBERING DESIGNATION MULTI-UNIT STRUCTURES

GENERAL NOTES

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

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

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



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

SECTION A-A

ALTERNATE LUG



ALTERNATE LUG

(FOR ATTACHMENT TO PRECAST STRUCTURES)

NAME PLATE (STRUCTURES)

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

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3/26/IO /S/ SCOT BECKET

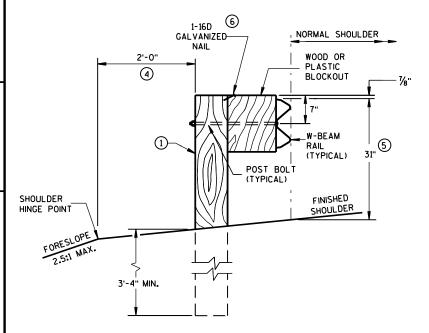
CHIEF STRUCTURAL DEVELOPMENT ENGINEER

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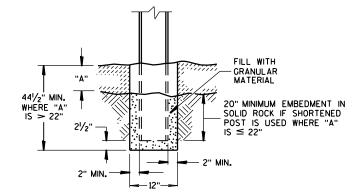
GENERAL NOTES

- (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

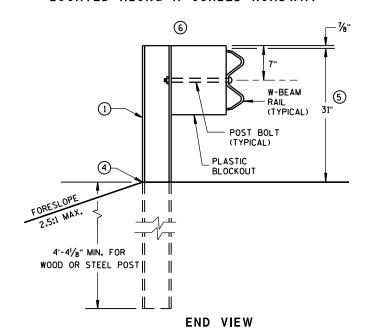
LOCATED ALONG A ROADWAY SHOULDER STANDARD INSTALLATION



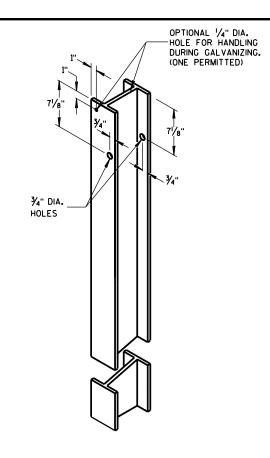
SETTING STEEL OR WOOD POST IN ROCK $^{\scriptsize{\textcircled{3}}}$



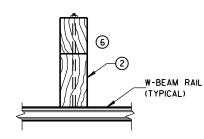
END VIEW
LOCATED ALONG A CURBED ROADWAY



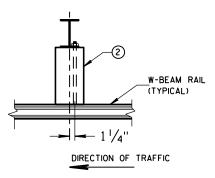
MGS LONGER POST AT HALFPOST SPACING W BEAM (K)



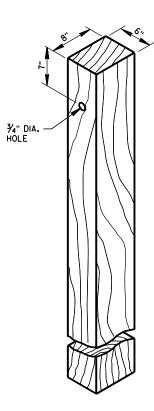
STEEL POST & HOLE PUNCHING DETAIL (w6X9)



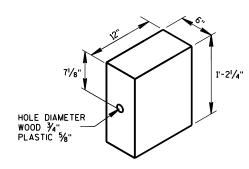
PLAN VIEW
WOOD POST,
BLOCKOUT & BEAM



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

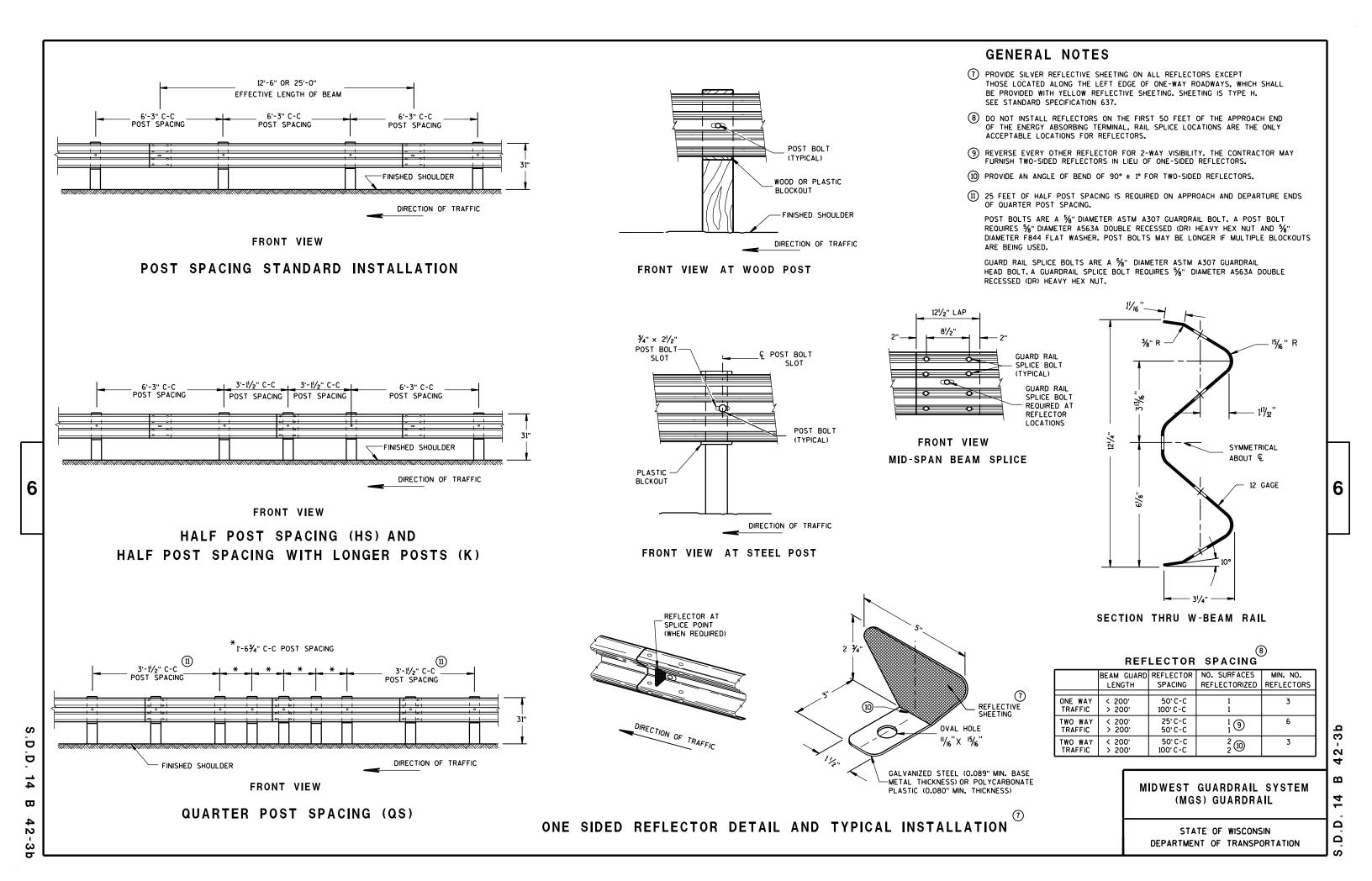
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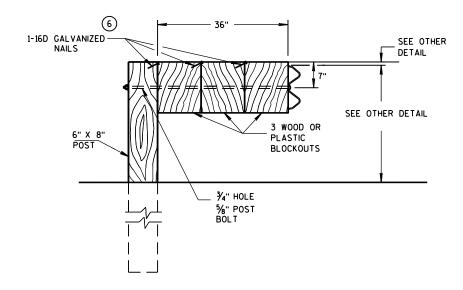
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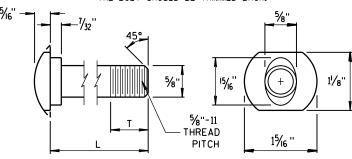


DETAIL FOR 36" BLOCKOUT DEPTH

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.

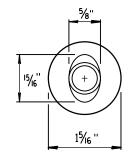
> DO NOT USE 16" OR 36" BLOCKOUTS IF IT CAUSES THE POST TO BE DRIVEN BEYOND SHOULDER HINGE POINT OR CAUSES A FIXED OBJECT TO BE WITHIN THE DEFLECTION DISTANCE OF THE BARRIER.

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.

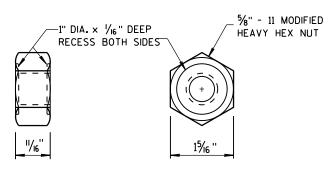


POST BOLT TABLE

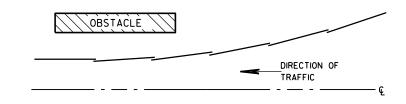
11/8"
437
13/4"
4"
41/16"
4"
41/16"
4"



ALTERNATE BOLT HEAD

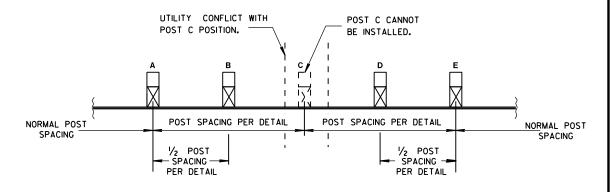


POST BOLT AND RECESS NUT



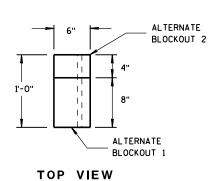
PLAN VIEW

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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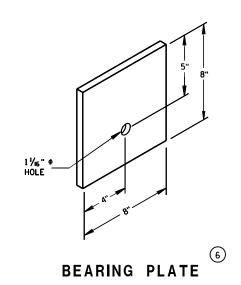
SECTION A-A SECTION B-B

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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)



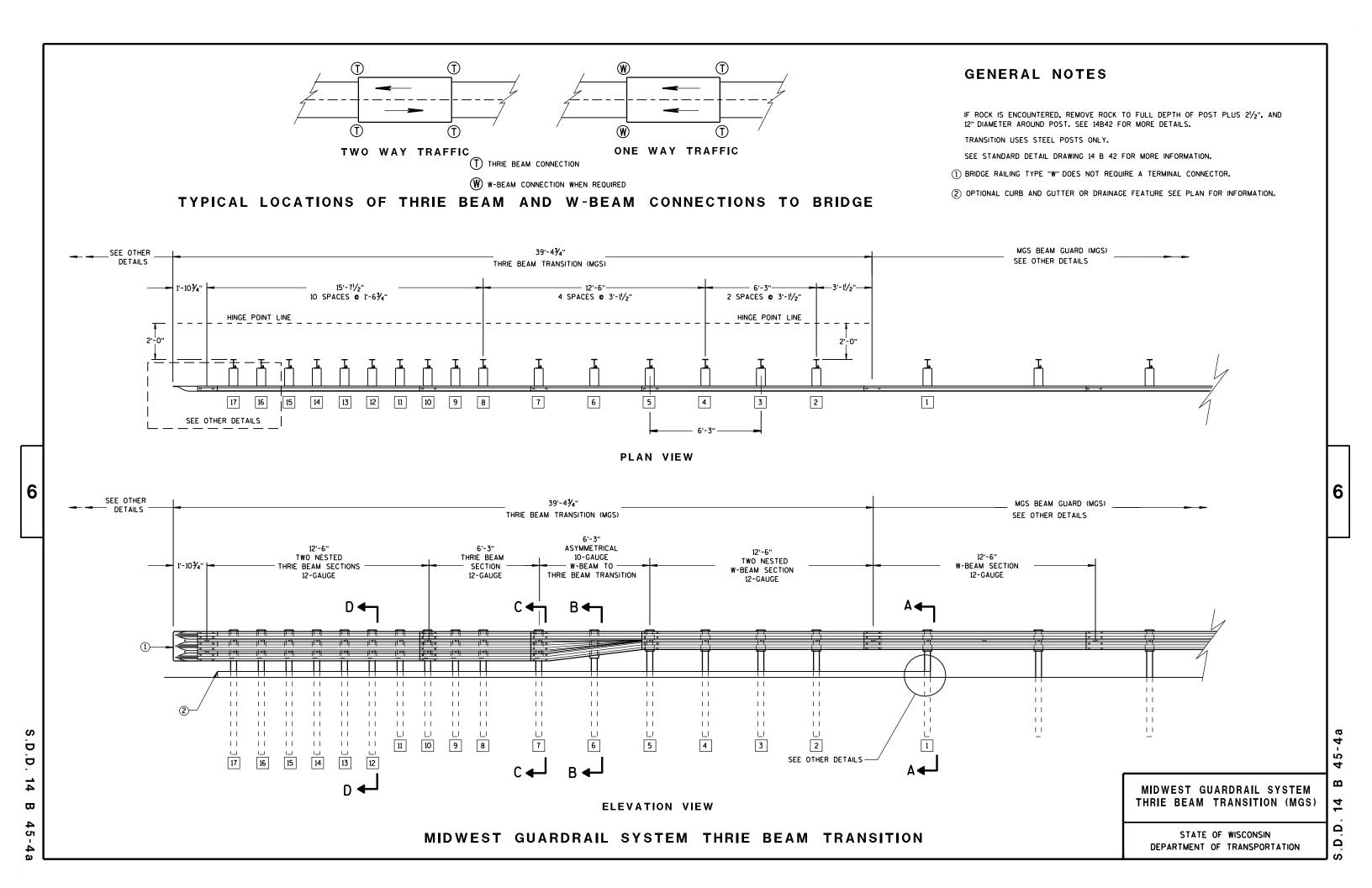
MIDWEST GUARDRAIL SYSTEM ENERGY ABSORBING TERMINAL (MGS)

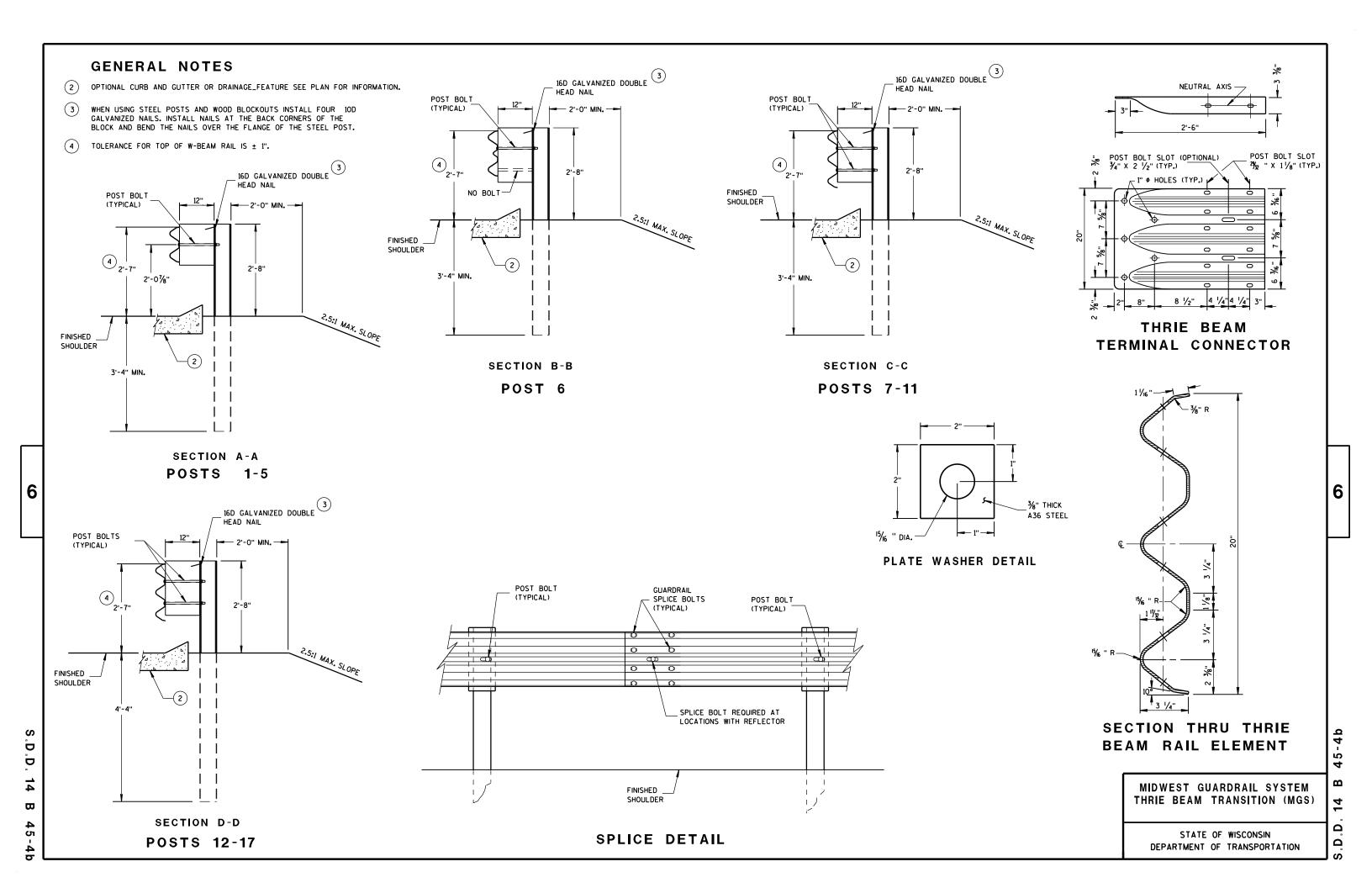
STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION

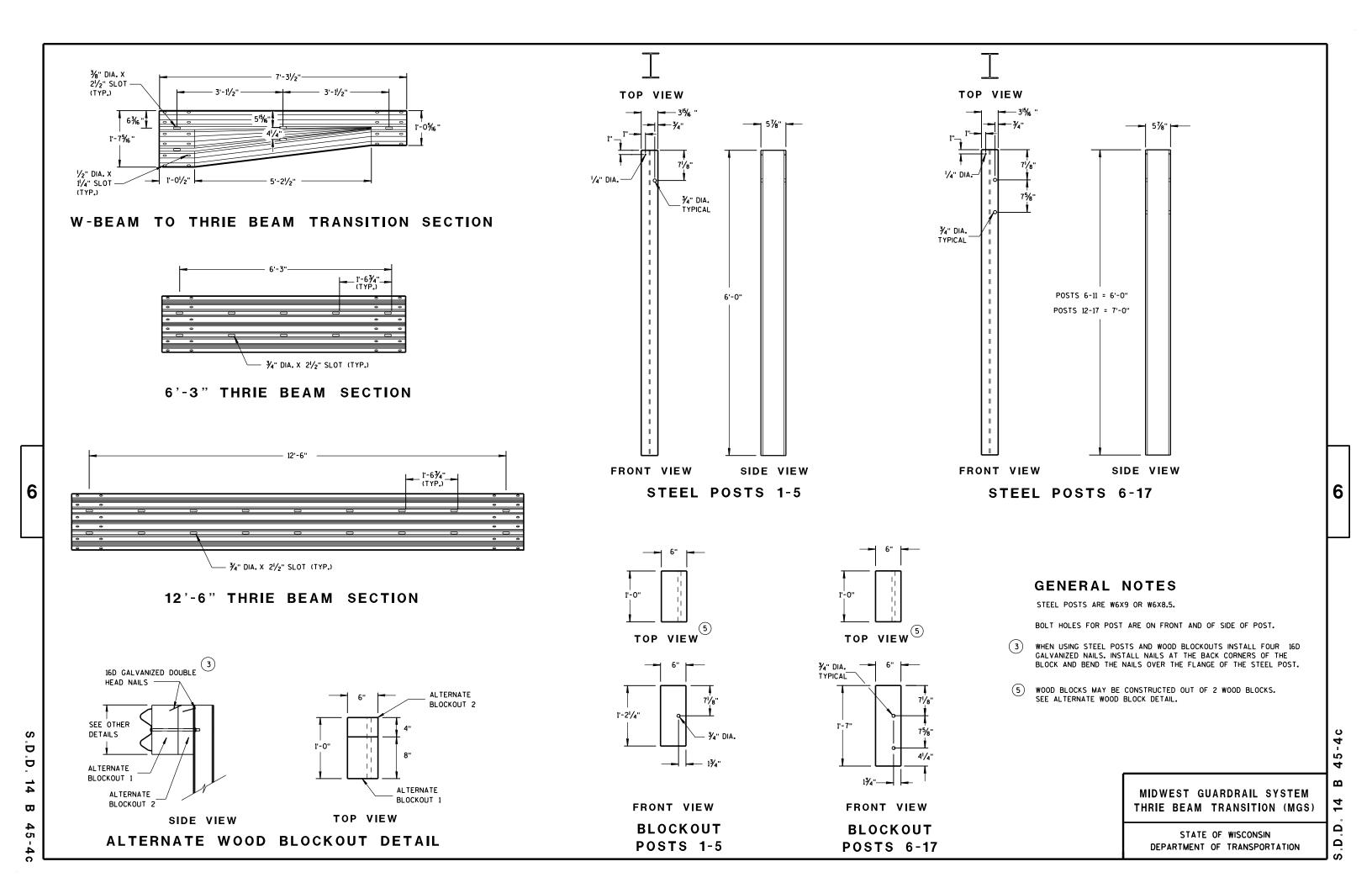
44-2b

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(PER ASSEMBLY)						
PLATE	QUANTITY	SHAPE	SIZE (A × B × C × D)	THICKNESS		
P1	1	в₫	20" × 20"	3/6"		
P2	1	B∱c	20" × 20" × 28 % 6"	¾6 "		
Р3	1	B&D	39" × 35/8" × 20" × 195/6"	3/6 "		
S1	4	B A	18 % 6" × 3 % " × 18 ¾ "	1/4"		
S2	1	B D	10 ¹ / ₄ " × 2 ⁷ / ₁₆ " × 10 ³ / ₈ " × ¹ / ₂ "	1/4"		
S3	1	B₽₽	3" × 11/16" × 31/8" × 1/2"	1/4"		
S4	1	в₫	61/8" × 21/16"	1/4"		
S5	1	в₾	6½" × ½"	1/4"		
S6	1	в₾	7¾" × 1¾"	1/4"		
S7	1	A DC	2%6" × 6" × 35%" × 57%"	1/4"		
S8	1	4 <u>8</u> 4	1 ⁵ / ₃₂ " × 7 ¹ / ₂ " × 2 ¹ / ₂ " × 7 ³ / ₈ "	1/4"		
S9	1	C □ R	6½6" × 6¾6" × 1¾2"	1/4"		
S10	1	A D C	11/8" × 91/8" × 35/8" × 911/16 "	1/4"		
S11	1	c ≜	8½" × 8¾" × 1¼6 "	1/4"		

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SINGLE SLOPE CONNECTION PLATE

MIDWEST GUARDRAIL SYSTEM THRIE BEAM TRANSITION (MGS)

STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION

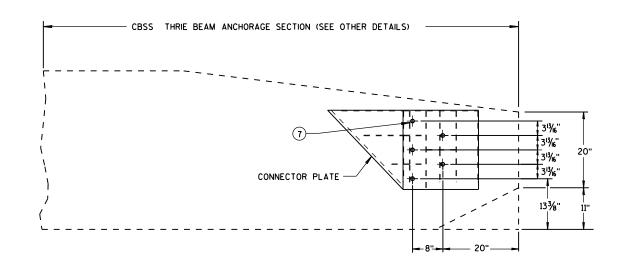
APPROVED	
2015	

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

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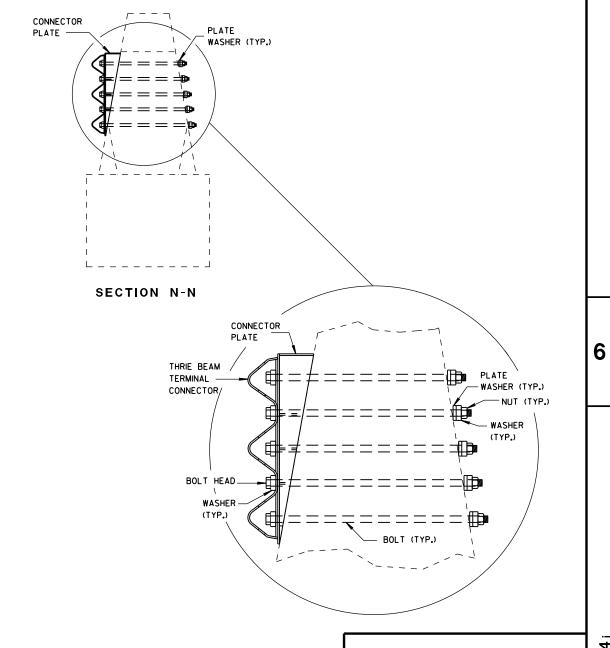


SINGLE SLOPE CONNECTION PLATE PLACEMENT

GENERAL NOTES

CONNECTOR PLATE, DRILLING BOLT HOLES THROUGH THE PARAPET, BOLTS, NUTS, WASHERS AND REPAIRING DAMAGED CONCRETE ARE INCIDENTAL TO THE CONTRACT.

- 2 OPTIONAL CURB AND GUTTER OR DRAINAGE FEATURE SEE PLAN FOR INFORMATION.
- 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. BOLTS THAT EXTEND THROUGH THE PARAPET AND OUT THE BACK FACE REQUIRE A HARDENED ROUND STEEL WASHER THAT IS 2" O.D. X %" THICK AND ONE PLATE WASHER. REPAIR ANY DAMAGED CONCRETE FROM BOLT INSTALLATION.



MIDWEST GUARDRAIL SYSTEM THRIE BEAM TRANSITION (MGS)

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

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APPROVED
June, 2015 /S.

FHWA

OIS /S/ Jerry H. Zogg

ROADWAY STANDARDS DEVELOPMENT
ENGINEER

S.D.D. 14 B 4



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

2

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STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION

/S/ Peter Amakobe Atepe

STATEWIDE WORK ZONE TRAFFIC SAFETY ENGINEER

URBAN ARFA



RURAL AREA (See Note 2)



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



5'-3"(生) D^{-1} Outside Edae of Gravel

White Edgeline Location

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

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

HWY:

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

PLOT BY : mscj9h

GENERAL NOTES

- 1. Signs wider than 4 feet or 20 sq.ft or larger, shall be mounted on multiple posts. Refer to plate A4-4.
- 2. If signs are mounted on barrier wall, see A4-10 sign plate.
- 3. For expressways and freeways, mounting height is $7'-3''(\pm)$ or 6'-3" (±) depending upon existence of a sub-sign.
- 4. Minimum mounting height for J assemblies (A2-1S) is $7'-3''(\pm)$ or $6'-3''(\pm)$ per urban or rural detail respectively.
- 5. Minimum mounting height for signs mounted on traffic signal poles is 5' - 3'' (\pm).
- 6. Offset distance shall be consistent with existing signs or consistent throughout length of project.
- 7. The (+) tolerance for mounting height is 3 inches.
- 8. Folding signs shall be mounted at a height of 5'-3'' (\pm) or as directd by the Engineer.
- 9. The Double Arrow sign (W12-1) shall be mounted at a height of 2'-3" (\pm) . The Chevron sign (W1-8), Roundabout Chevron panel (R6-4B), Enhanced Reference Markers, Clearance Markers (W5-52), Mile Markers (D10 series), In Road Object Markers (W5-54) & End of Road Markers (W5-56) shall be mounted at a height of 4'-3'' (\pm).

POST EMBEDMENT DEPTH

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

TYPICAL INSTALLATION OF PERMANENT TYPE II SIGNS ON SINGLE POSTS

WISCONSIN DEPT OF TRANSPORTATION

SHEET NO:

APPROVED

for State Traffic Engineer

DATE 7/23/15

PLATE NO. <u>A4-3.20</u>

FILE NAME : C:\CAEfiles\Projects\tr_stdplate\A43.DGN

PROJECT NO:

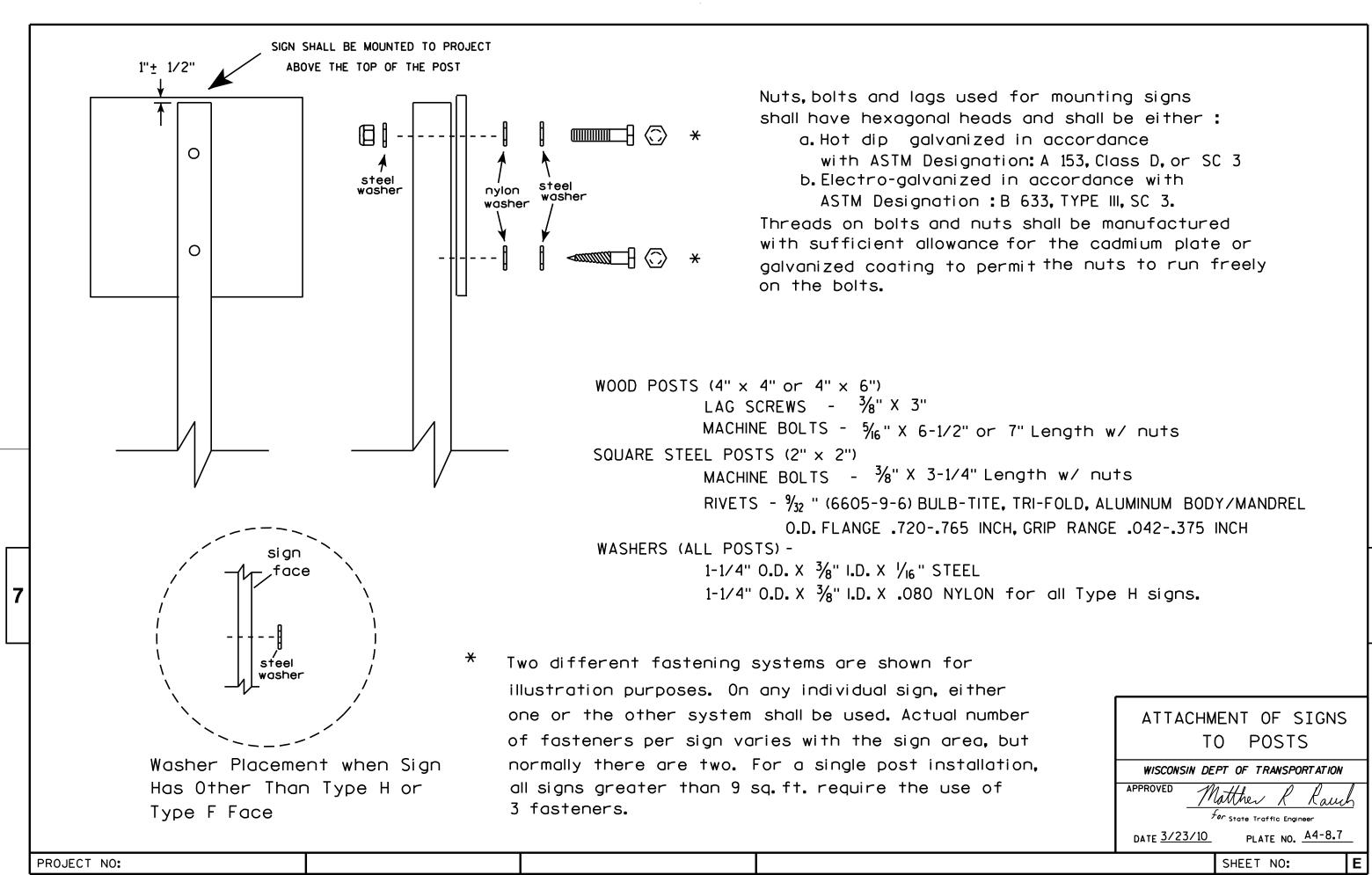
PLOT DATE: 23-JUL-2015 15:21

COUNTY:

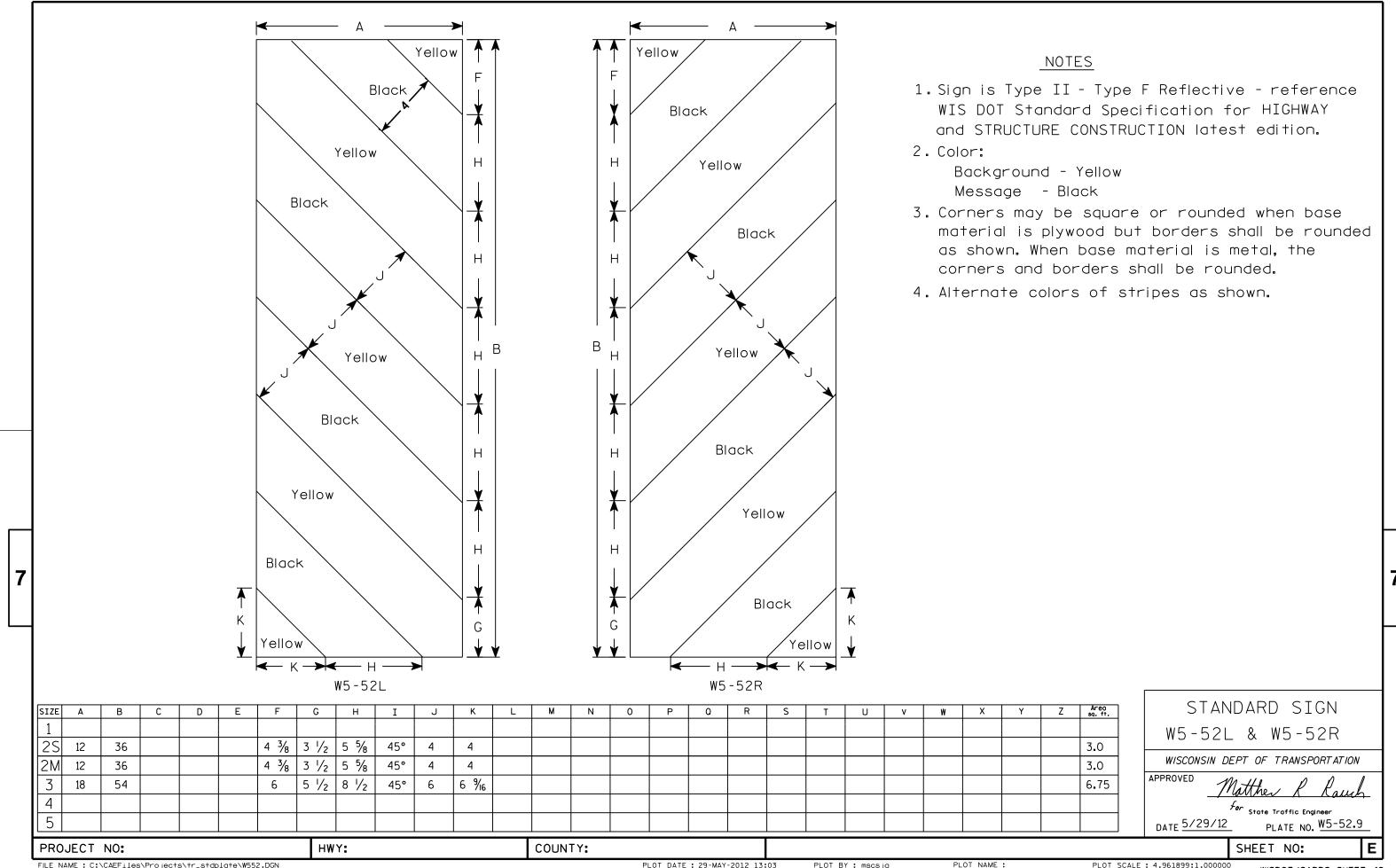
PLOT NAME :

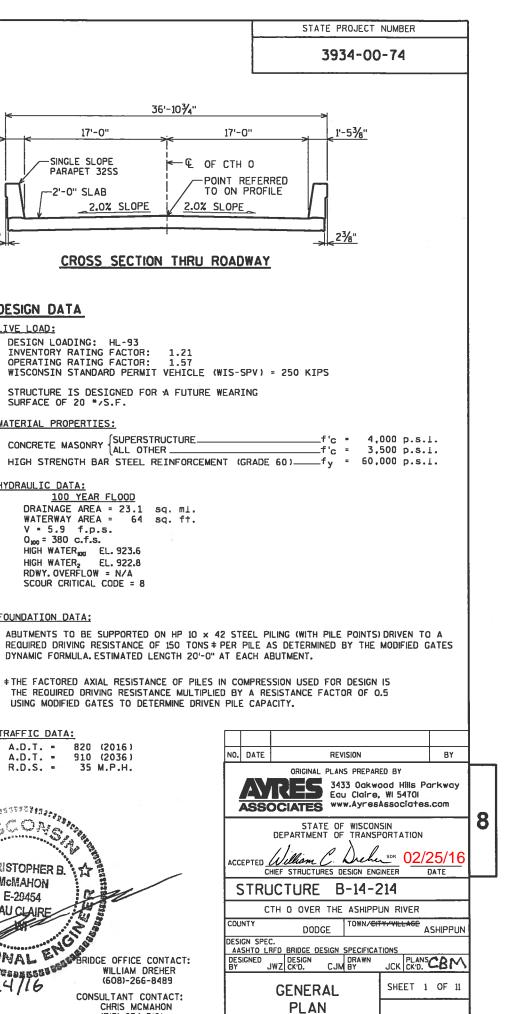
PLOT SCALE: 99.237937:1.000000

WISDOT/CADDS SHEET 42









17'-0"

SINGLE SLOPE

-2'-0" SLAB

DESIGN DATA

MATERIAL PROPERTIES:

V = 5.9 f.p.s.

 $Q_{100} = 380$ c.f.s.

HYDRAULIC DATA:

FOUNDATION DATA:

TRAFFIC DATA:

R.D.S. =

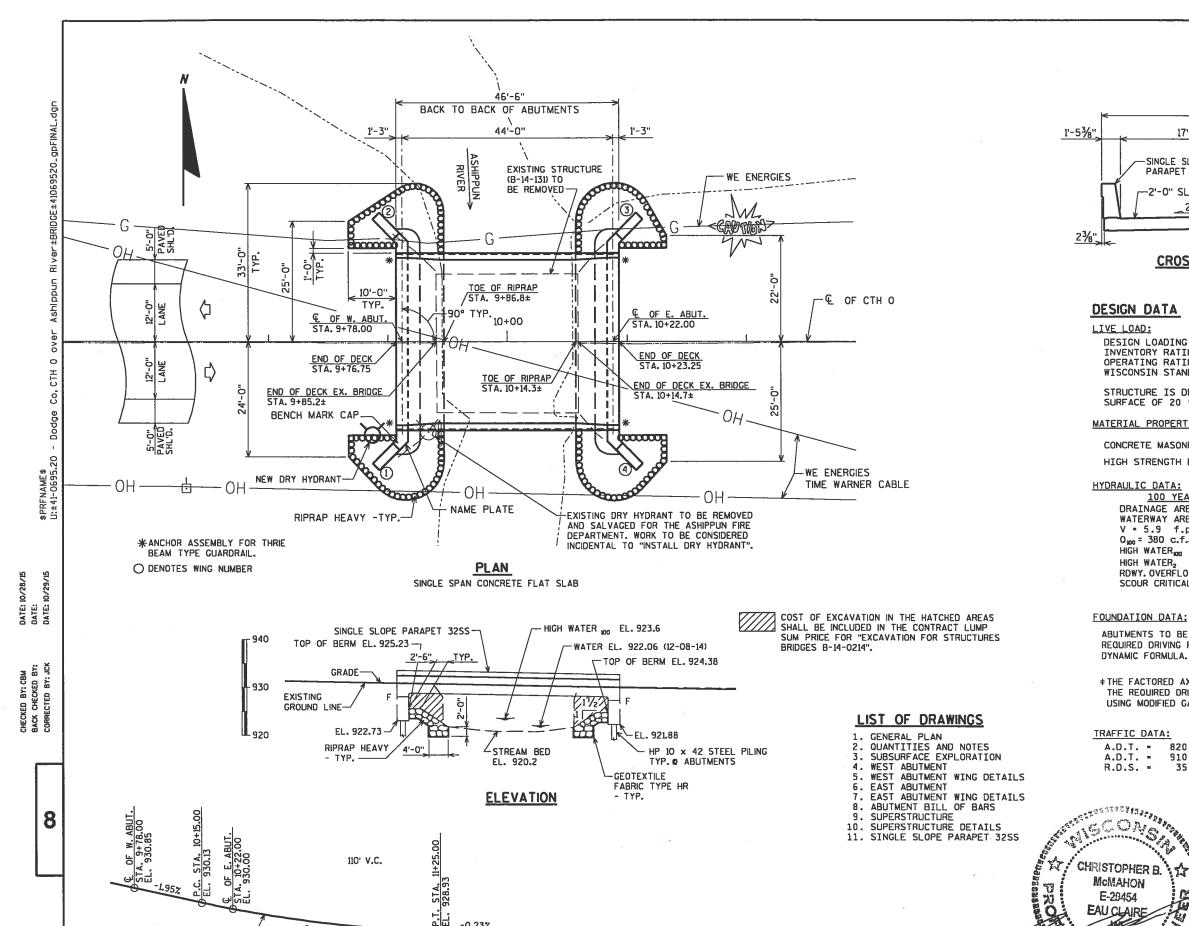
McMAHON

E-20454

VONAL ENG

2/24/16

LIVE LOAD:



-0.23%

BENCH MARK:

STA. 10+11, 15' RT.

EL. 924.79

CHIS. "X" ON CONC, REPAIR IN SE COR. OF BRIDGE

P.I. STA. 10+70.00

PROFILE GRADE LINE

€ OF CTH O

2/24/2016

PENTABLE:BReau_shd_util.tbl

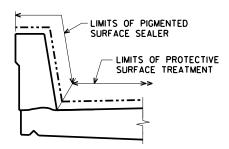
I.D.

(715)-834-3161

DATE:

TOTAL ESTIMATED QUANTITIES

BID ITEM NUMBER	BID ITEMS	UNIT	W. ABUT.	E. ABUT.	SUPER.	TOTAL
203.0600.S	REMOVING OLD STRUCTURE OVER WATERWAY WITH MINIMAL DEBRIS STATION 10+00	LS				1
206.1000	EXCAVATION FOR STRUCTURES BRIDGES B-14-0214	LS				1
210.0100	BACKFILL STRUCTURE	CY	110	110		220
502.0100	CONCRETE MASONRY BRIDGES	CY	29	29	142	200
502.3200	PROTECTIVE SURFACE TREATMENT	SY			176	176
502.3210	PIGMENTED SURFACE SEALER	SY			38	38
505.0400	BAR STEEL REINFORCEMENT HS STRUCTURES	LB	2,610	2,610		5,220
505.0600	BAR STEEL REINFORCEMENT HS COATED STRUCTURES	LB	810	810	24,000	25,620
516.0500	RUBBERIZED MEMBRANE WATERPROOFING	SY	10	10		20
550.0500	PILE POINTS	EACH	6	6		12
550.1100	PILING STEEL HP 10-INCH × 42 LB	LF	120	120		240
606.0300	RIPRAP HEAVY	CY	60	60		120
612.0406	PIPE UNDERDRAIN WRAPPED 6-INCH	LF	75	75		150
614.0150	ANCHOR ASSEMBLIES FOR STEEL PLATE BEAM GUARD	EACH			4	4
645.0120	GEOTEXTILE FABRIC TYPE HR	SY	110	110		220
	NON-BID ITEMS					
	FILLER	SIZE				1/2" & 3/4"



PROTECTIVE SURFACE TREATMENT AND PIGMENTED SURFACE SEALER DETAIL

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 A.A.S.H.T.O. DESIGNATION M 153, TYPE I, II OR III OR

A.A.S.H.T.O. DESIGNATION M 213.

THE SLOPE OF THE FILL IN FRONT OF THE ABUTMENTS
SHALL BE COVERED WITH RIPRAP HEAVY TO THE EXTENT
SHOWN ON THE GENERAL PLAN SHEET AND IN THE ABUTMENT DETAILS.

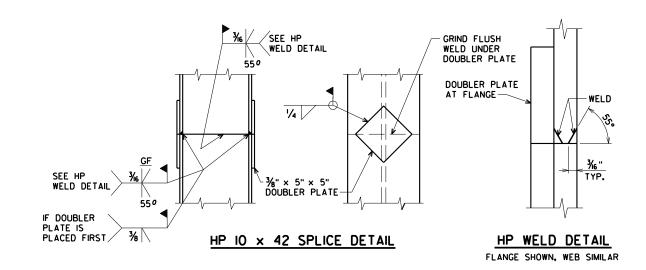
SLAB FALSEWORK SHALL BE SUPPORTED ON PILES OR THE SUBSTRUCTURES UNLESS OTHERWISE APPROVED BY THE ENGINEER. THE EXISTING GROUND LINE SHALL BE THE UPPER LIMIT FOR EXCAVATION FOR STRUCTURES.

THE EXISTING STRUCTURE, B-14-131, TO BE REMOVED, IS A SINGLE SPAN STEEL DECK GIRDER BRIDGE, 29.5 FT. LONG WITH A 28.0 FT. CLEAR ROADWAY WIDTH.

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

PROTECTIVE SURFACE TREATMENT AND PIGMENTED SURFACE SEALER ARE TO BE APPLIED AS SHOWN IN DETAIL ON THIS SHEET.

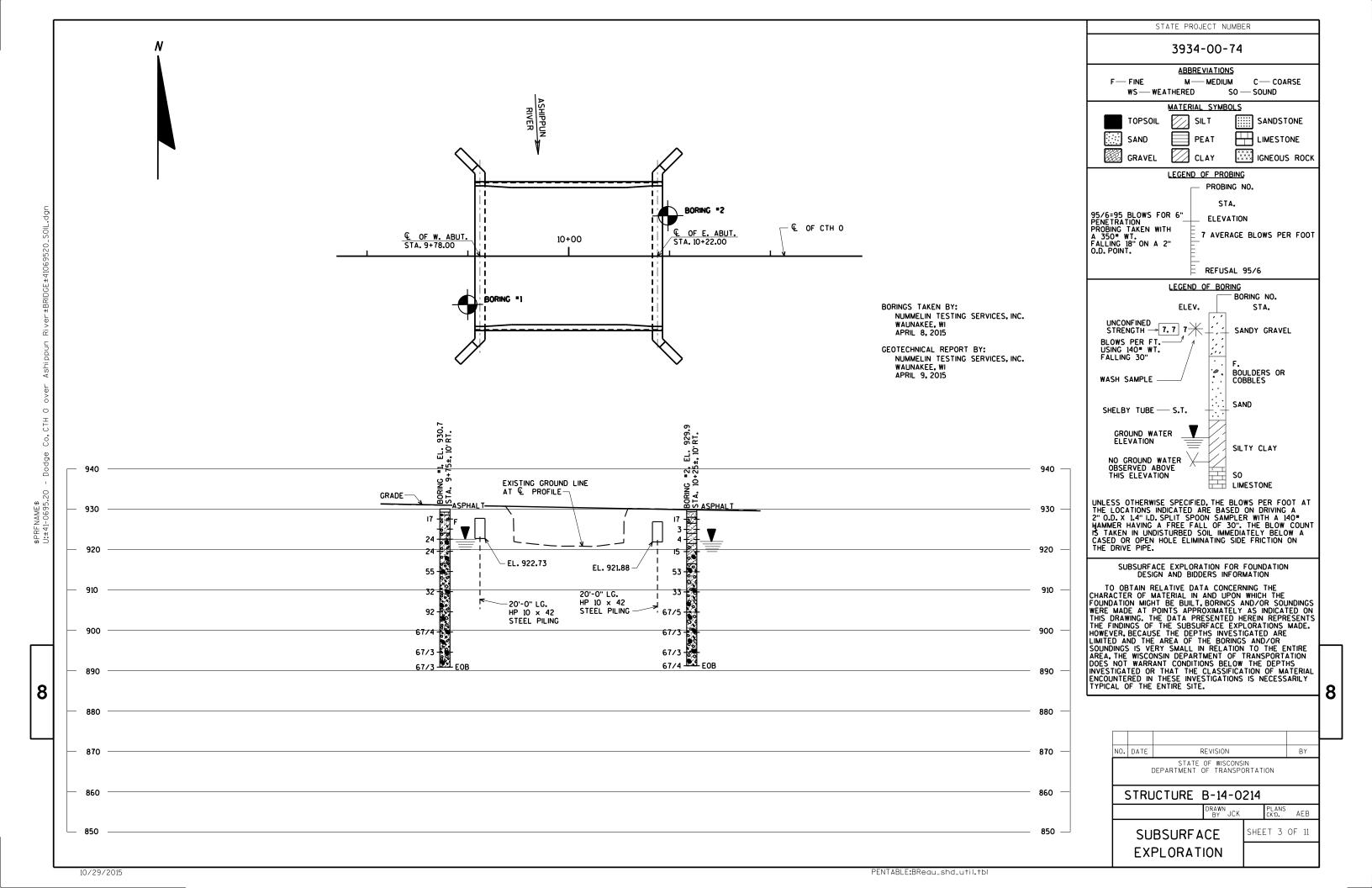
THE QUANTITY OF BACKFILL STRUCTURE, BID ITEM 210.0100, IS CALCULATED BASED ON APPLICABLE FIGURES 12.6-1 AND 12.6-2 IN THE WISCONSIN DEPARTMENT OF TRANSPORTATION BRIDGE MANUAL.

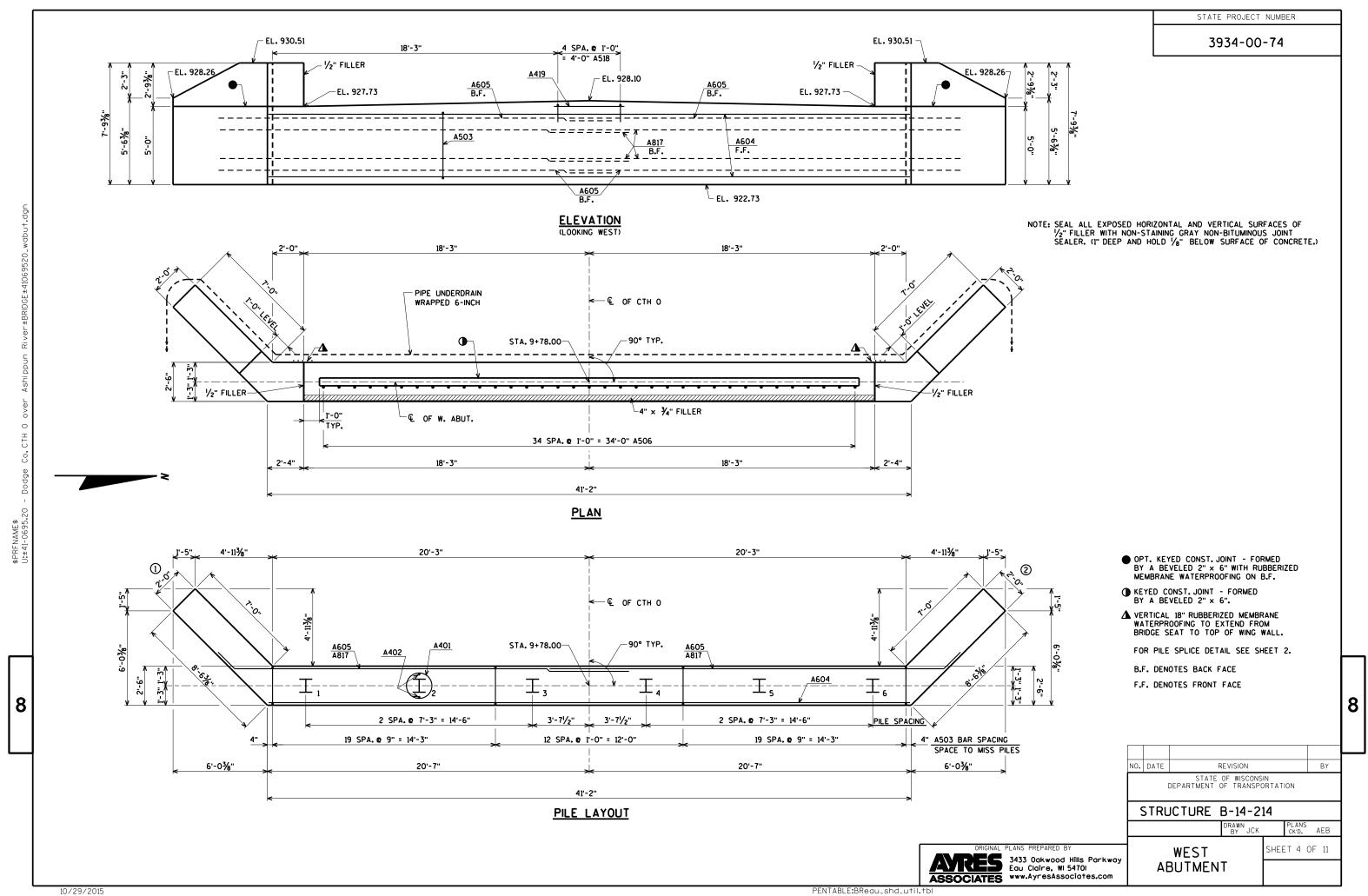


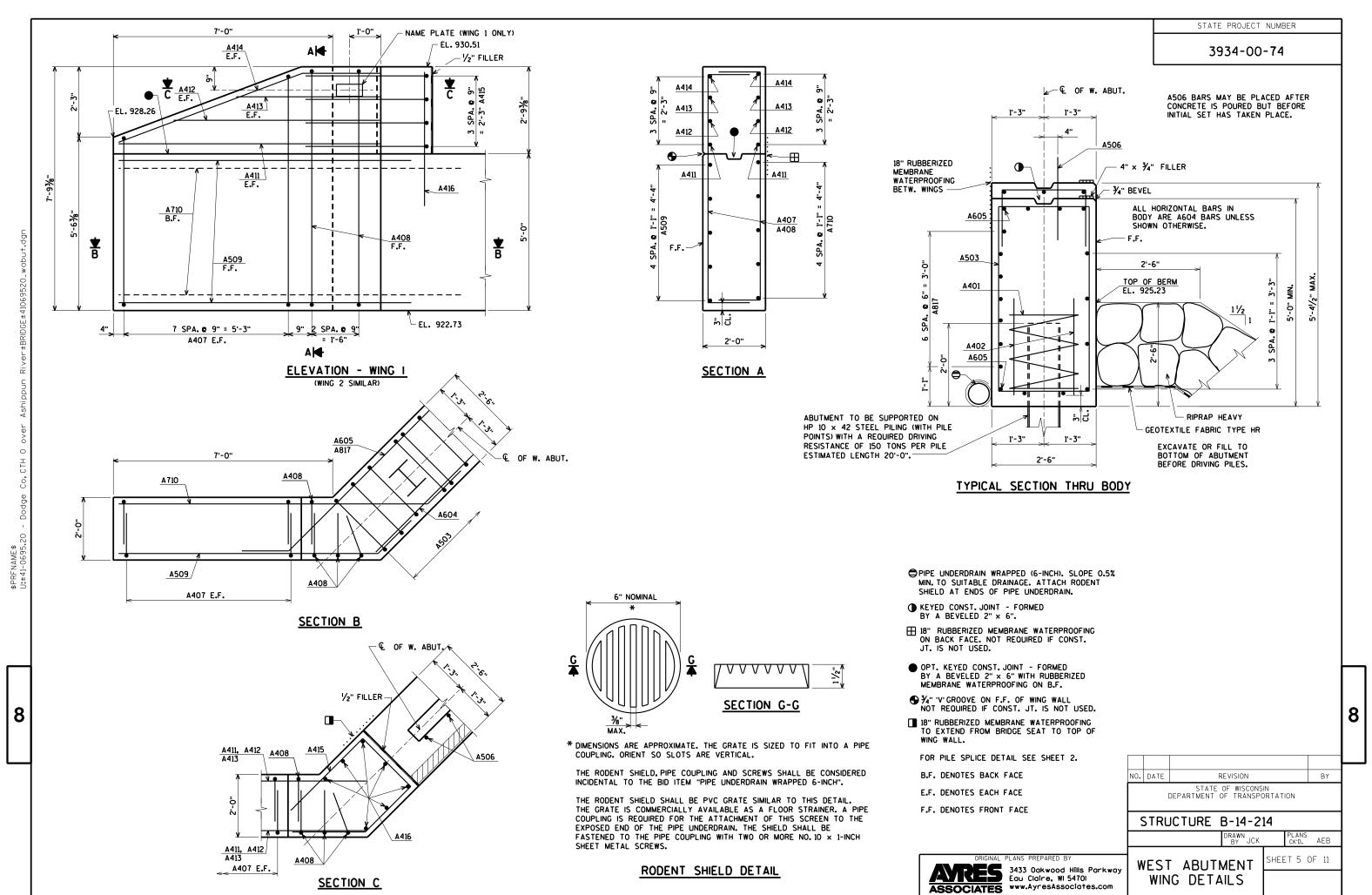
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION STRUCTURE B-14-214 PLANS CK'D. AEB SHEET 2 OF 11 QUANTITIES AND NOTES

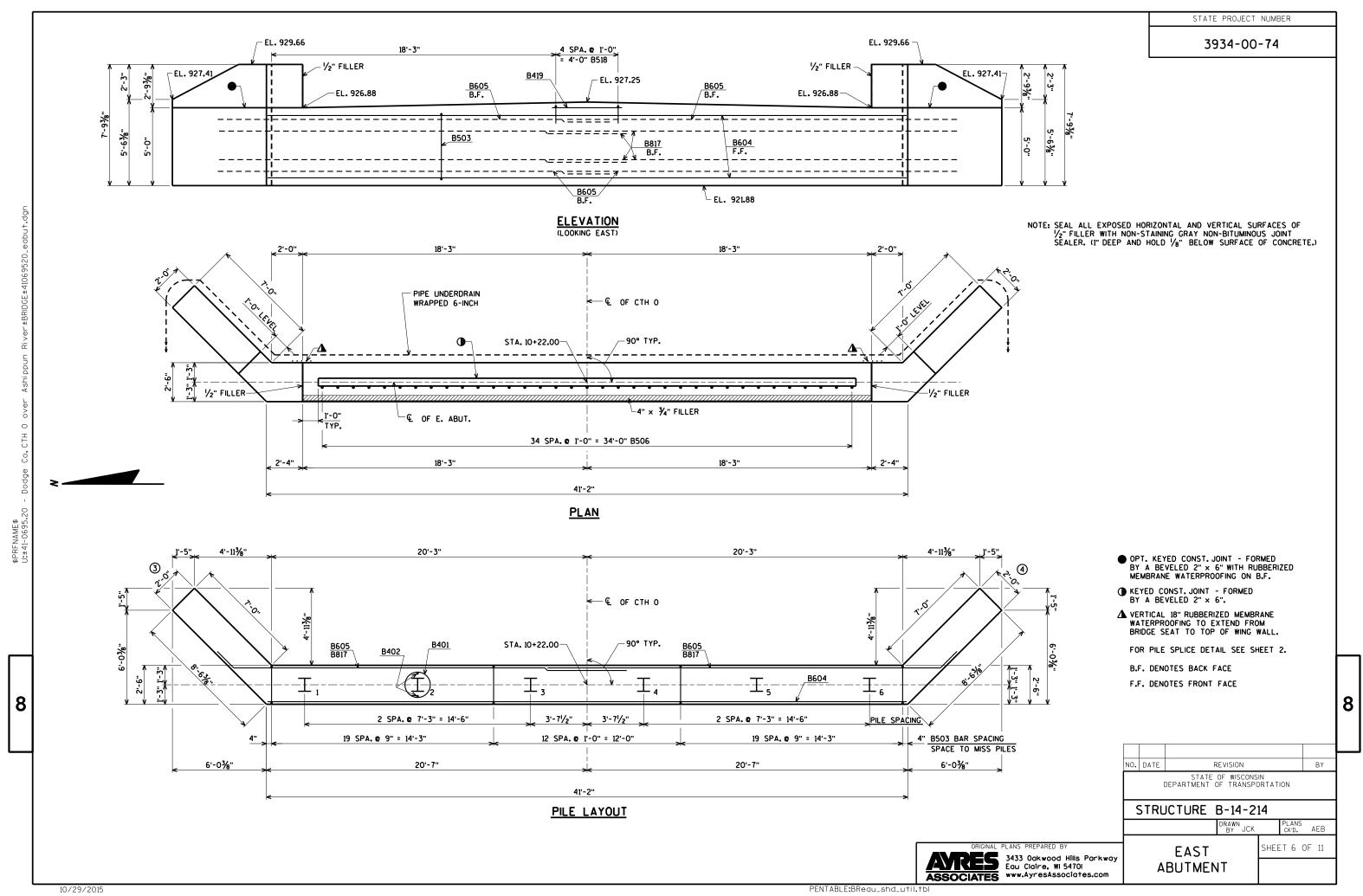
8

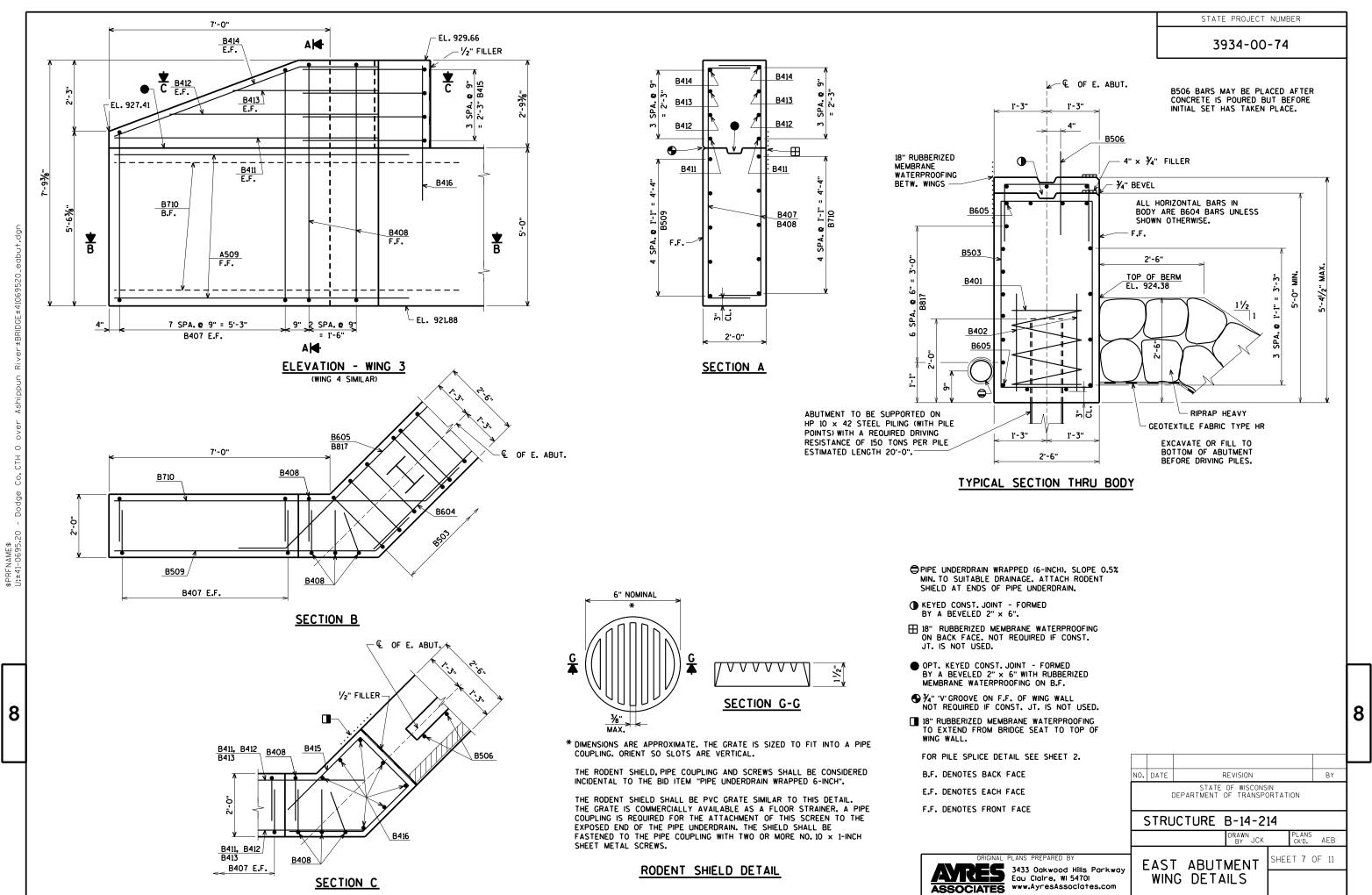
ATRES 3433 Oakwood Hills Parkway Eau Claire, WI 54701 ASSOCIATES www.AyresAssociates.com











STATE PROJECT NUMBER

3934-00-74

BILL OF BARS - WEST ABUTMENT BILL OF BARS - EAST ABUTMENT

S			HLL C	IF DA	• • •	_		WEST ADDIMENT
A401	. NO.		REO'D.	ІСТН		DLED	SERIES	2,610" UNCOATED 810" COATED
A402 12 2-3 BODY @ PILES A503 51 13-10 X BODY VERT. A604 9 41-0 BODY HORIZ. F.F. A605 4 25-8 X BODY HORIZ. B.F. A506 X 35 2-0 BODY DOWELS A407 X 32 8-8 X WINGS 1 & 2 VERT. E.F. A408 X 8 9-10 X WINGS 1 & 2 VERT. E.F. A509 X 10 9-9 X WINGS 1 & 2 HORIZ. F.F. A710 X 10 11-4 X WINGS 1 & 2 HORIZ. B.F. A411 X 4 8-4 WINGS 1 & 2 HORIZ. E.F. A412 X 4 6-7 WINGS 1 & 2 HORIZ. E.F. A413 X 4 4-7 WINGS 1 & 2 HORIZ. E.F. A414 X 4 8-8 X WINGS 1 & 2 HORIZ. E.F. A415 X 8 8-5 X WINGS 1 & 2 DIAG. E.F. A416 X 14 4-3 WINGS 1 & 2 HORIZ. A416 X 14 4-3 WINGS 1 & 2 HORIZ. A417 14 26-11 X BODY HORIZ. B.F. A518 5 4-9 X BODY VERT. TOP	BAR	COATE	NO. F	rEN	BENT	z	AR.	
A503	A401		6	28-0	×			BODY @ PILES
A604 9 41-0 BODY HORIZ. F.F. A605 4 25-8 X BODY HORIZ. B.F. A506 X 35 2-0 BODY DOWELS A407 X 32 8-8 X ⊗ WINGS 1 & 2 VERT. E.F. A408 X 8 9-10 X WINGS 1 & 2 VERT. E.F. A509 X 10 9-9 X WINGS 1 & 2 HORIZ. F.F. A710 X 10 11-4 X WINGS 1 & 2 HORIZ. B.F. A411 X 4 8-4 WINGS 1 & 2 HORIZ. E.F. A412 X 4 6-7 WINGS 1 & 2 HORIZ. E.F. A413 X 4 4-7 WINGS 1 & 2 HORIZ. E.F. A414 X 4 8-8 X WINGS 1 & 2 HORIZ. E.F. A415 X 8 8-5 X WINGS 1 & 2 HORIZ. A416 X 14 4-3 WINGS 1 & 2 HORIZ. A416 X 14 4-3 WINGS 1 & 2 HORIZ. A417 14 26-11 X BODY HORIZ. B.F. A518 5 4-9 X BODY VERT. TOP	A402		12	2-3				BODY @ PILES
A605	A503		51	13-10	X			BODY VERT.
A506 X 35 2-0 BODY DOWELS A407 X 32 8-8 X ⊗ WINGS 1 & 2 VERT. E.F. A408 X 8 9-10 X WINGS 1 & 2 VERT. E.F. A509 X 10 9-9 X WINGS 1 & 2 HORIZ. F.F. A710 X 10 11-4 X WINGS 1 & 2 HORIZ. B.F. A411 X 4 8-4 WINGS 1 & 2 HORIZ. E.F. A412 X 4 6-7 WINGS 1 & 2 HORIZ. E.F. A413 X 4 4-7 WINGS 1 & 2 HORIZ. E.F. A414 X 4 8-8 X WINGS 1 & 2 HORIZ. E.F. A415 X 8 8-5 X WINGS 1 & 2 HORIZ. A416 X 14 4-3 WINGS 1 & 2 HORIZ. A416 X 14 4-3 WINGS 1 & 2 VERT. A817 14 26-11 X BODY HORIZ. B.F. A518 5 4-9 X BODY VERT. TOP	A604		9	41-0				BODY HORIZ. F.F.
A407 X 32 8-8 X	A605		4	25-8	Х			BODY HORIZ. B.F.
A408 X 8 9-10 X WINGS 1 & 2 VERT. E.F. A509 X 10 9-9 X WINGS 1 & 2 HORIZ. F.F. A710 X 10 11-4 X WINGS 1 & 2 HORIZ. B.F. A411 X 4 8-4 WINGS 1 & 2 HORIZ. E.F. A412 X 4 6-7 WINGS 1 & 2 HORIZ. E.F. A413 X 4 4-7 WINGS 1 & 2 HORIZ. E.F. A414 X 4 8-8 X WINGS 1 & 2 HORIZ. E.F. A415 X 8 8-5 X WINGS 1 & 2 HORIZ. E.F. A416 X 14 4-3 WINGS 1 & 2 DIAG. E.F. A417 X 4-3 WINGS 1 & 2 VERT. A817 14 26-11 X BODY HORIZ. B.F. A518 5 4-9 X BODY VERT. TOP	A506	Х	35	2-0				BODY DOWELS
A509 X 10 9-9 X WINGS 1 & 2 HORIZ. F.F. A710 X 10 11-4 X WINGS 1 & 2 HORIZ. B.F. A411 X 4 8-4 WINGS 1 & 2 HORIZ. E.F. A412 X 4 6-7 WINGS 1 & 2 HORIZ. E.F. A413 X 4 4-7 WINGS 1 & 2 HORIZ. E.F. A414 X 4 8-8 X WINGS 1 & 2 DIAG. E.F. A415 X 8 8-5 X WINGS 1 & 2 DIAG. E.F. A416 X 14 4-3 WINGS 1 & 2 HORIZ. A416 X 14 4-3 WINGS 1 & 2 VERT. A817 14 26-11 X BODY HORIZ. B.F. A518 5 4-9 X BODY VERT. TOP	A407	Х	32	8-8	Х		⊗	WINGS 1 & 2 VERT. E.F.
A710 X 10 11-4 X WINGS 1 & 2 HORIZ. B.F. A411 X 4 8-4 WINGS 1 & 2 HORIZ. E.F. A412 X 4 6-7 WINGS 1 & 2 HORIZ. E.F. A413 X 4 4-7 WINGS 1 & 2 HORIZ. E.F. A414 X 4 8-8 X WINGS 1 & 2 DIAG. E.F. A415 X 8 8-5 X WINGS 1 & 2 DIAG. E.F. A416 X 14 4-3 WINGS 1 & 2 HORIZ. A817 14 26-11 X BODY HORIZ. B.F. A518 5 4-9 X BODY VERT. TOP	A408	X	8	9-10	X			WINGS 1 & 2 VERT. E.F.
A411 X 4 8-4 WINGS 1 & 2 HORIZ. E.F. A412 X 4 6-7 WINGS 1 & 2 HORIZ. E.F. A413 X 4 4-7 WINGS 1 & 2 HORIZ. E.F. A414 X 4 8-8 X WINGS 1 & 2 DIAG. E.F. A415 X 8 8-5 X WINGS 1 & 2 HORIZ. A416 X 14 4-3 WINGS 1 & 2 HORIZ. A416 X 14 4-3 WINGS 1 & 2 VERT. A817 14 26-11 X BODY HORIZ. B.F. A518 5 4-9 X BODY VERT. TOP	A509	X	10	9-9	X			WINGS 1 & 2 HORIZ. F.F.
A412 X 4 6-7 WINGS 1 & 2 HORIZ. E.F. A413 X 4 4-7 WINGS 1 & 2 HORIZ. E.F. A414 X 4 8-8 X WINGS 1 & 2 DIAG. E.F. A415 X 8 8-5 X WINGS 1 & 2 HORIZ. A416 X 14 4-3 WINGS 1 & 2 HORIZ. A817 14 26-11 X BODY HORIZ. B.F. A518 5 4-9 X BODY VERT. TOP	A710	X	10	11-4	X			WINGS 1 & 2 HORIZ. B.F.
A413 X 4 4-7 WINGS 1 & 2 HORIZ. E.F. A414 X 4 8-8 X WINGS 1 & 2 DIAG. E.F. A415 X 8 8-5 X WINGS 1 & 2 HORIZ. A416 X 14 4-3 WINGS 1 & 2 VERT. A817 14 26-11 X BODY HORIZ. B.F. A518 5 4-9 X BODY VERT. TOP	A411	X	4	8 - 4				WINGS 1 & 2 HORIZ. E.F.
A414 X 4 8-8 X WINGS 1 & 2 DIAG. E.F. A415 X 8 8-5 X WINGS 1 & 2 HORIZ. A416 X 14 4-3 WINGS 1 & 2 VERT. A817 14 26-11 X BODY HORIZ. B.F. A518 5 4-9 X BODY VERT. TOP	A412	X	4	6 - 7				WINGS 1 & 2 HORIZ. E.F.
A415 X 8 8-5 X WINGS 1 & 2 HORIZ. A416 X 14 4-3 WINGS 1 & 2 VERT. A817 14 26-11 X BODY HORIZ. B.F. A518 5 4-9 X BODY VERT. TOP	A413	X	4	4 - 7				WINGS 1 & 2 HORIZ. E.F.
A416 X 14 4-3 WINGS 1 & 2 VERT. A817 14 26-11 X BODY HORIZ. B.F. A518 5 4-9 X BODY VERT. TOP	A414	X	4	8-8	X			WINGS 1 & 2 DIAG. E.F.
A817 14 26-11 X BODY HORIZ. B.F. A518 5 4-9 X BODY VERT. TOP	A415	X	8	8-5	Х			WINGS 1 & 2 HORIZ.
A518 5 4-9 X BODY VERT. TOP	A416	X	14	4-3				WINGS 1 & 2 VERT.
	A817		14	26-11	Х			BODY HORIZ. B.F.
A419 3 4-6 BODY HORIZ. TOP	A518		5	4-9	Х			BODY VERT. TOP
	A419		3	4-6				BODY HORIZ. TOP

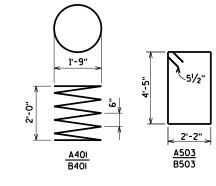
BENDING DIMENSIONS ARE OUT TO OUT OF BARS	BENDING	DIMENSIONS	ARE	OUT	ΤO	OUT	OF	BARS.
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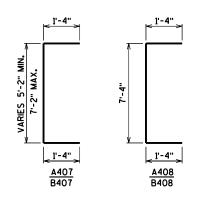
- ⊗LENGTH SHOWN FOR BAR IS AN AVERAGE LENGTH AND SHOULD ONLY BE USED FOR BAR WEIGHT CALCULATIONS. SEE BAR SERIES TABLE FOR ACTUAL LENGTHS.
- B.F. DENOTES BACK FACE
- E.F. DENOTES EACH FACE
- F.F. DENOTES FRONT FACE

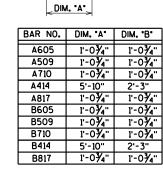
BAR SERIES TABLE

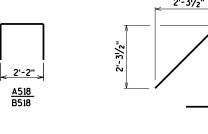
BAR MARK	NO REQ'D.	LENGTH					
A407	4 SERIES OF 8	7'-8" TO 9'-8"					
B407	4 SERIES OF 8	7'-8" TO 9'-8"					
BUNDLE AN	BUNDLE AND TAG EACH SERIES SEPARATELY.						

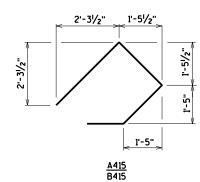
BAR. NO.	D BAR	REO'D.	LENGTH	BAR	୲≍	SERIES	2,610" UNCOATED 810" COATED
BAR	COATED	9 " ON	רפּוּ	BENT	BGN	BAR	LOCATION
B401		6	28-0	Х			BODY @ PILES
B402		12	2-3				BODY @ PILES
B503		51	13-10	X			BODY VERT.
B604		9	41-0				BODY HORIZ. F.F.
B605		4	25-8	×			BODY HORIZ. B.F.
B506	Х	35	2-0				BODY DOWELS
B407	Х	32	8-8	Х		⊗	WINGS 3 & 4 VERT. E.F.
B408	Х	8	9-10	Х			WINGS 3 & 4 VERT. E.F.
B509	Х	10	9-9	Х			WINGS 3 & 4 HORIZ. F.F.
B710	Х	10	11-4	X			WINGS 3 & 4 HORIZ. B.F.
B411	Х	4	8-4				WINGS 3 & 4 HORIZ. E.F.
B412	Х	4	6-7				WINGS 3 & 4 HORIZ. E.F.
B413	Х	4	4 - 7				WINGS 3 & 4 HORIZ. E.F.
B414	Х	4	8-8	X			WINGS 3 & 4 DIAG. E.F.
B415	Х	8	8-5	Х			WINGS 3 & 4 HORIZ.
B416	Х	14	4-3				WINGS 3 & 4 VERT.
B817		14	26-11	X			BODY HORIZ. B.F.
B518		5	4-9	Х			BODY VERT. TOP
B419		3	4-6				BODY HORIZ. TOP
	П				Γ	Г	











BY STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION STRUCTURE B-14-214 PLANS CK'D. AEB

8

ARES
3433 Odkwood Hills Parkway
Edu Claire, WI 5470I
WWW.AyresAssociates.com

ABUTMENT

SHEET 8 OF 11 BILL OF BARS

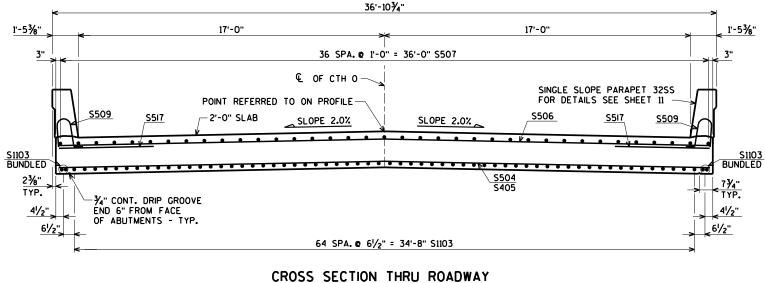
10/29/2015

STATE PROJECT NUMBER

3934-00-74

24,000" COATED

LOCATION



TOP TRANSVERSE BARS IN SLAB SHALL
BE SUPPORTED BY INDIVIDUAL BAR CHAIRS AT
APPROXIMATELY 3'-O' CENTERS EACH WAY. BOTTOM
LONGITUDINAL BARS SHALL BE SUPPORTED BY
CONTINUOUS BAR CHAIRS AT APPROXIMATELY
4'-O' CENTERS.

ALL SLAB THICKNESS DIMENSIONS ARE MINIMUM. ANY TOLERANCES NECESSARY TO CORRECT CONSTRUCTION DISCREPANCIES ARE TO BE PLUS (+).

S501	X	74	6-9	Х			SLAB @ ABUT.
S502	X	74	3-9	Х			SLAB @ ABUT.
S1103	X	69	40-2		Х		SLAB LONG. BOT.
S504	X	38	36-2				SLAB TRANS. BOT.
S405	X	30	36-2				SLAB TRANS. BOT.
S506	X	47	36-2				SLAB TRANS. TOP
S507	X	37	46-2				SLAB LONG. TOP
S508	X	68	4-4	Х			SLAB @ PARAPET VERT.
S509	X	88	4-5	Х			SLAB @ PARAPET VERT.
S510	X	88	5-0	Х			PARAPET VERT.
S511	X	20	10-10				PARAPET HORIZ.
S512	X	4	11-0	Х			PARAPET HORIZ.
S513	X	48	2-9	Х			SLAB @ PARAPET VERT.
S514	X	44	4-9	Х			PARAPET VERT.
S515	X	24	4-10	Х			PARAPET VERT.
S516	X	12	28-0				PARAPET HORIZ.
S517	X	92	5-0				SLAB TRANS. TOP @ EDGES
	\$502 \$1103 \$504 \$405 \$506 \$507 \$508 \$509 \$510 \$511 \$512 \$513 \$514 \$515 \$516	\$502 X \$1103 X \$504 X \$405 X \$506 X \$507 X \$508 X \$509 X \$510 X \$511 X \$512 X \$512 X \$513 X \$514 X \$515 X \$516 X	\$502 X 74 \$1103 X 69 \$504 X 38 \$405 X 30 \$506 X 47 \$507 X 37 \$508 X 68 \$509 X 88 \$510 X 88 \$511 X 20 \$512 X 4 \$513 X 48 \$514 X 44 \$515 X 24 \$516 X 12	S502 X 74 3-9 S1103 X 69 40-2 S504 X 38 36-2 S405 X 30 36-2 S506 X 47 36-2 S507 X 37 46-2 S508 X 68 4-4 S509 X 88 4-5 S510 X 88 5-0 S511 X 20 10-10 S512 X 4 11-0 S513 X 48 2-9 S514 X 44 4-9 S515 X 24 4-10 S516 X 12 28-0	S502 X 74 3-9 X S1103 X 69 40-2 X S504 X 38 36-2 X S405 X 30 36-2 X S506 X 47 36-2 X S507 X 37 46-2 X S508 X 68 4-4 X S510 X 88 5-0 X S511 X 20 10-10 X S512 X 4 11-0 X S513 X 48 2-9 X S514 X 44 4-9 X S515 X 24 4-10 X S516 X 12 28-0 X	S502 X 74 3-9 X S1103 X 69 40-2 X S504 X 38 36-2 X S405 X 30 36-2 X S506 X 47 36-2 X S507 X 37 46-2 X S508 X 68 4-4 X S510 X 88 5-0 X S511 X 20 10-10 X S512 X 4 11-0 X S513 X 48 2-9 X S514 X 44 4-9 X S515 X 24 4-10 X S516 X 12 28-0 X	S502 X 74 3-9 X S1103 X 69 40-2 X S504 X 38 36-2 X S405 X 30 36-2 X S506 X 47 36-2 X S507 X 37 46-2 X S508 X 68 4-4 X S510 X 88 5-0 X S511 X 20 10-10 X S512 X 4 11-0 X S513 X 48 2-9 X S514 X 44 4-9 X S515 X 24 4-10 X S516 X 12 28-0 X

BENDING DIMENSIONS ARE OUT TO OUT OF BARS.

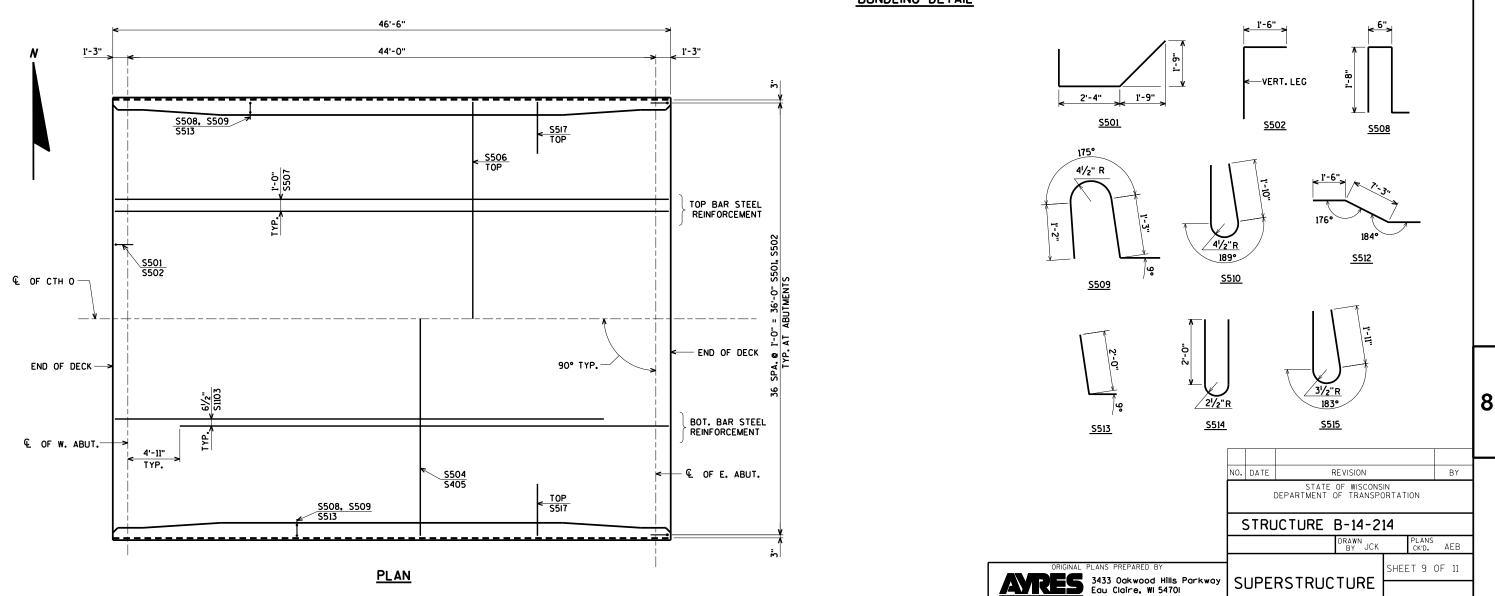
BILL OF BARS

REO'D.

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WIRE BARS TOGETHER © 2'-0" CENTERS S1103

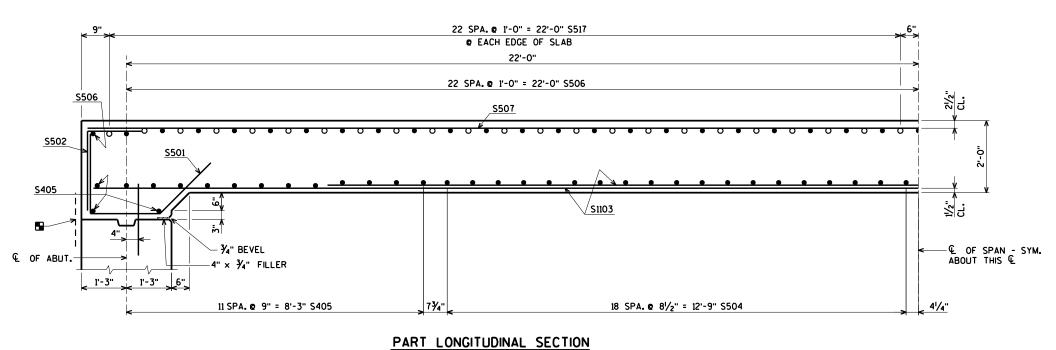
BUNDLING DETAIL



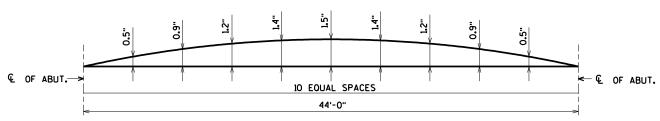
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ASSOCIATES www.AyresAssociates.com

3934-00-74



■ 18" RUBBERIZED MEMBRANE WATERPROOFING



CAMBER DIAGRAM

CAMBER SPANS AS SHOWN TO PROVIDE FOR DEADLOAD DEFLECTION & FUTURE CREEP. CAMBER DOES NOT INCLUDE ALLOWANCE FOR FORM SETTLEMENT.

PRIOR TO RELEASING SLAB FALSEWORK, TAKE TOP OF SLAB ELEVATIONS AT THE $\mathfrak C$ OF ABUTMENTS AND 5/10 POINTS TO VERIFY CAMBER. TAKE ELEVATIONS ALONG EDGE OF SLAB AND CROWN OR $\mathfrak C$.

TOP OF DECK ELEVATIONS

	LOCATION	€ OF W. ABUT.	0.1	0.2	0.3	0.4	0.5	0.6	0.7	0.8	0.9	€ OF E. ABUT.
0	N. EDGE OF SLAB	930.51	930.42	930.34	930.25	930.17	930.08	930.00	929.91	929.83	929.74	929.66
[€ OF STRUCTURE	930.85	930.76	930.68	930.59	930.51	930.42	930.34	930.25	930.17	930.08	930.00
0	S. EDGE OF SLAB	930.51	930.42	930.34	930.25	930.17	930.08	930.00	929.91	929.83	929.74	929.66

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

ONOTE: TOP OF DECK IS LEVEL UNDER PARAPET.

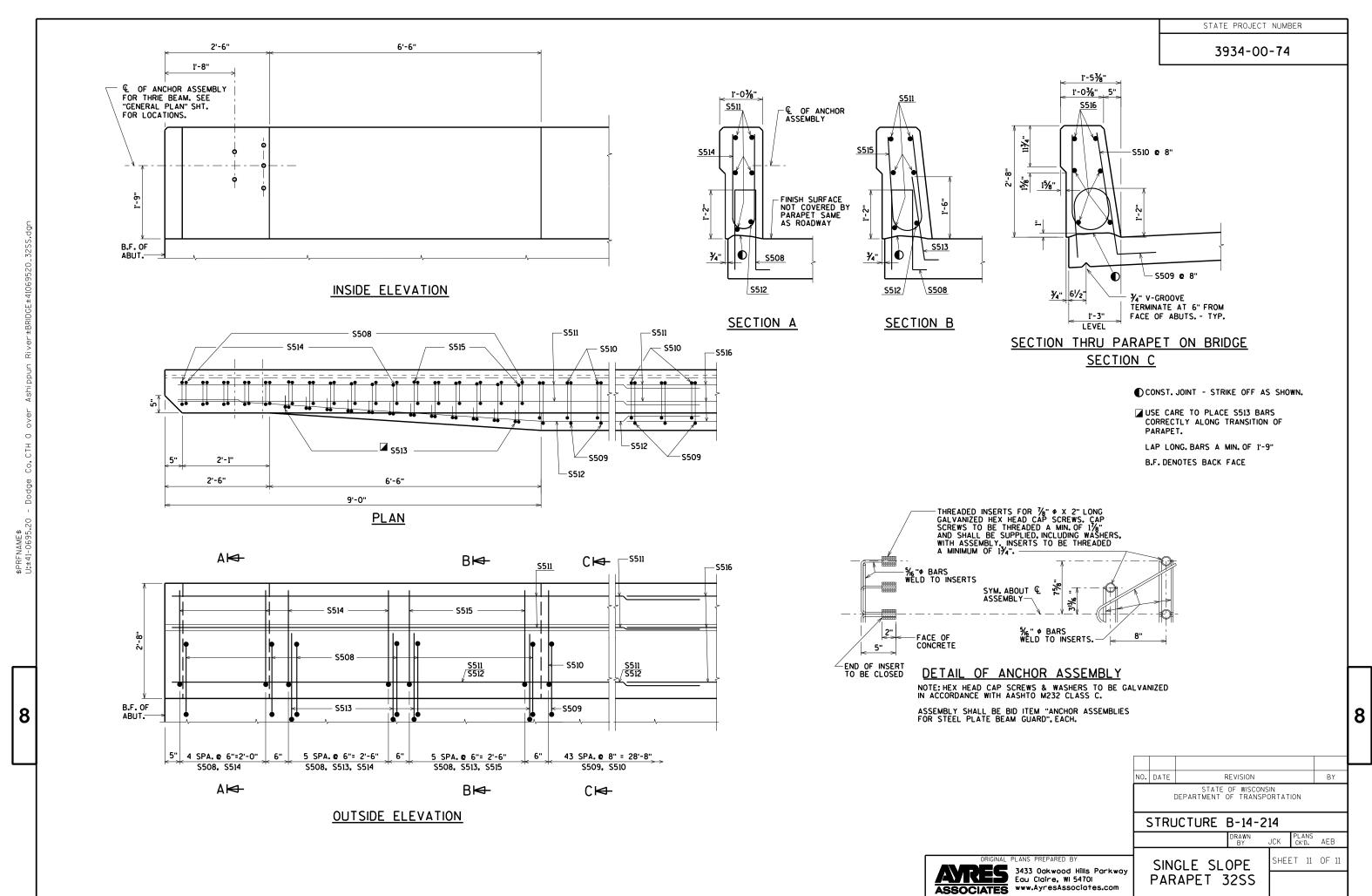
ATRES 3433 Oakwood Hills Parkway Eau Claire, WI 54701 ASSOCIATES www.AyresAssociates.com

STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION STRUCTURE B-14-214 PLANS CK'D. AEB SHEET 10 OF 11 SUPERSTRUCTURE DETAILS

2/9/2016

PENTABLE:BReau_shd_util.tbl

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CTH O COMPUTER EARTHWORK

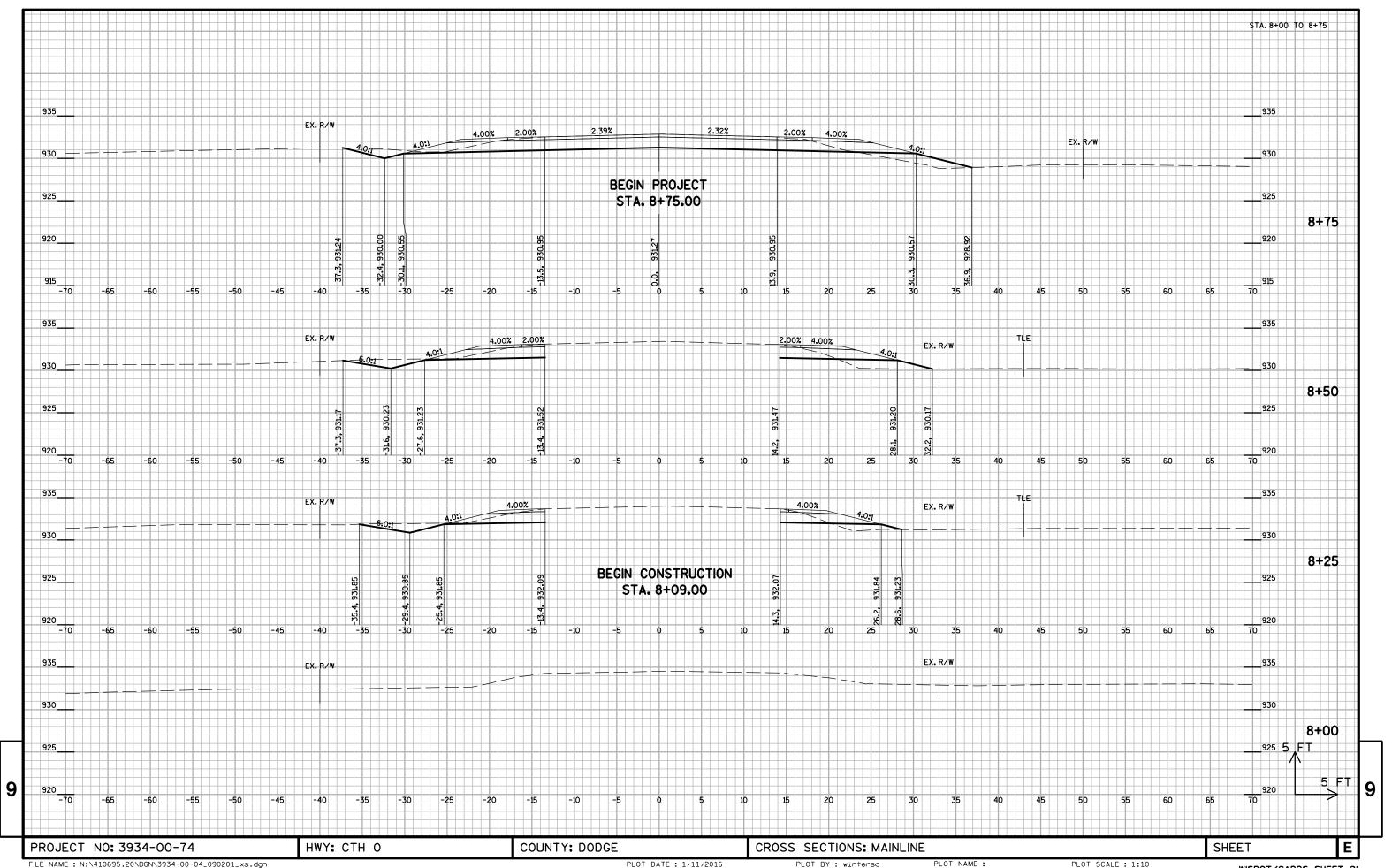
		Area (SF)		Incremental Vol (CY) (Unadjusted)	Cumulative Vol	(CY)	
							Expanded	1
Station	Distance	Cut	Fill	Cut	Fill	Cut	Fill	Mass Ordinate
						1.00	1.30	
				Note 1	Note 2	Note 1		Note 3
8+09		0	0					
8+25	16	24.9	4.2	7	1	7	2	6
8+50	25	27.3	8.0	24	6	32	9	23
8+75	25	66.7	8.9	44	8	75	19	56
9+00	25	65.9	13.4	61	10	137	33	104
9+25	25	57.7	22.5	57	17	194	54	139
9+50	25	53.3	33.5	51	26	245	88	157
9+75	25	51.5	35.8	49	32	294	130	164
9+78	3	51.5	35.8	6	4	299	135	164
NEW BRIDGE								
10+22		59.2	45.6					
10+35	13	59.2	45.6	29	22	328	163	164
10+50	15	64.3	26.2	34	20	362	189	173
10+75	25	71.1	15.8	63	19	425	215	210
11+00	25	78.1	4.7	69	10	494	227	267
11+25	25	29.7	6.8	50	5	544	234	310
11+50	25	23.7	7.9	25	7	569	243	326
11+75	25	19.0	9.5	20	8	588	253	335
11+86	11	0	0	4	2	592	256	336
				592	197			

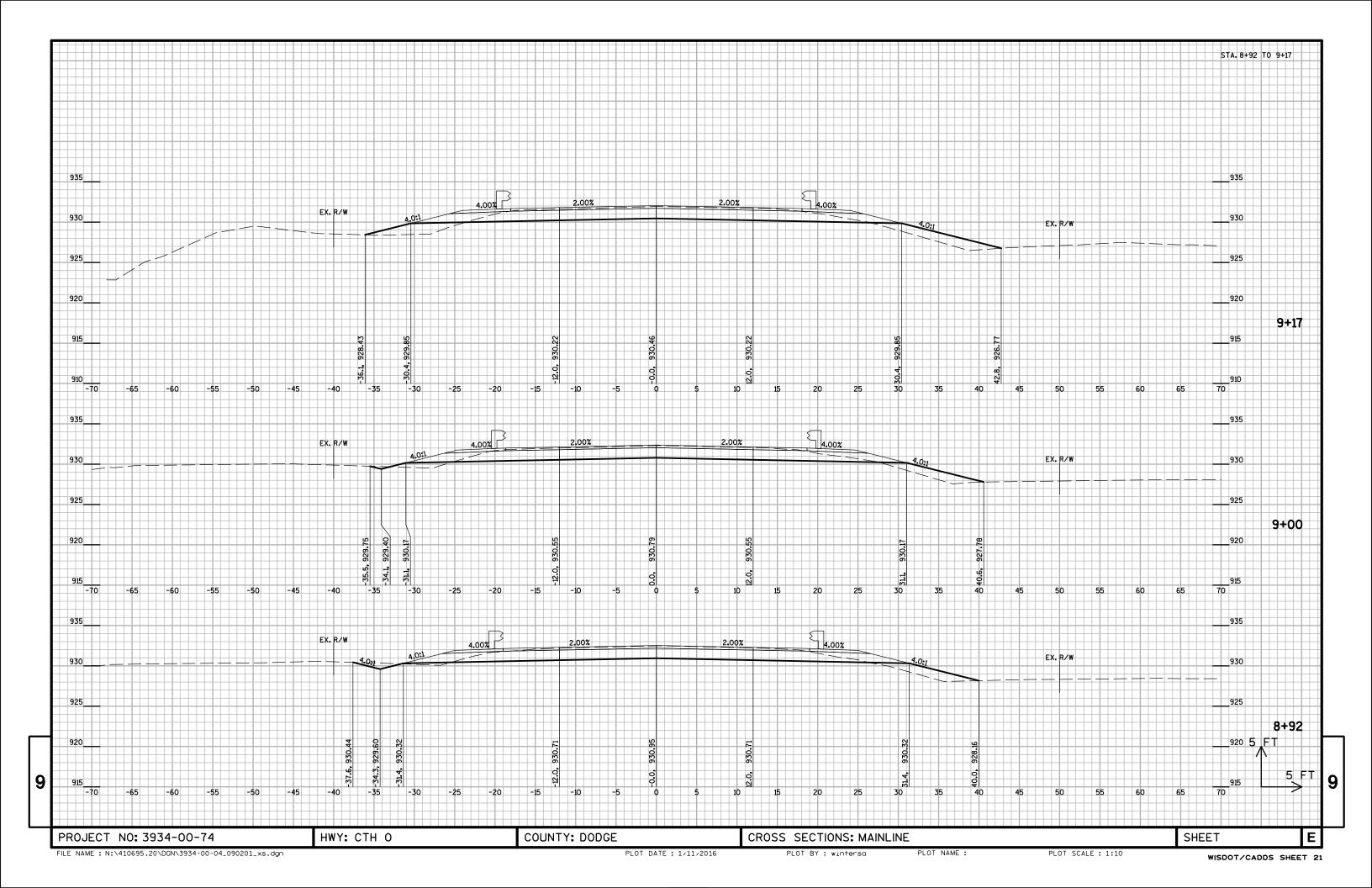
Note 1 - Cut	Cut includes existing asphalt pavement. Assumed to be reused as fill outside the 1:1 road core.
Note 2 - Fill	Volume needed to be filled.
Note 3 - Mass Ordinate	(Cut) - (Fill * 1.30)

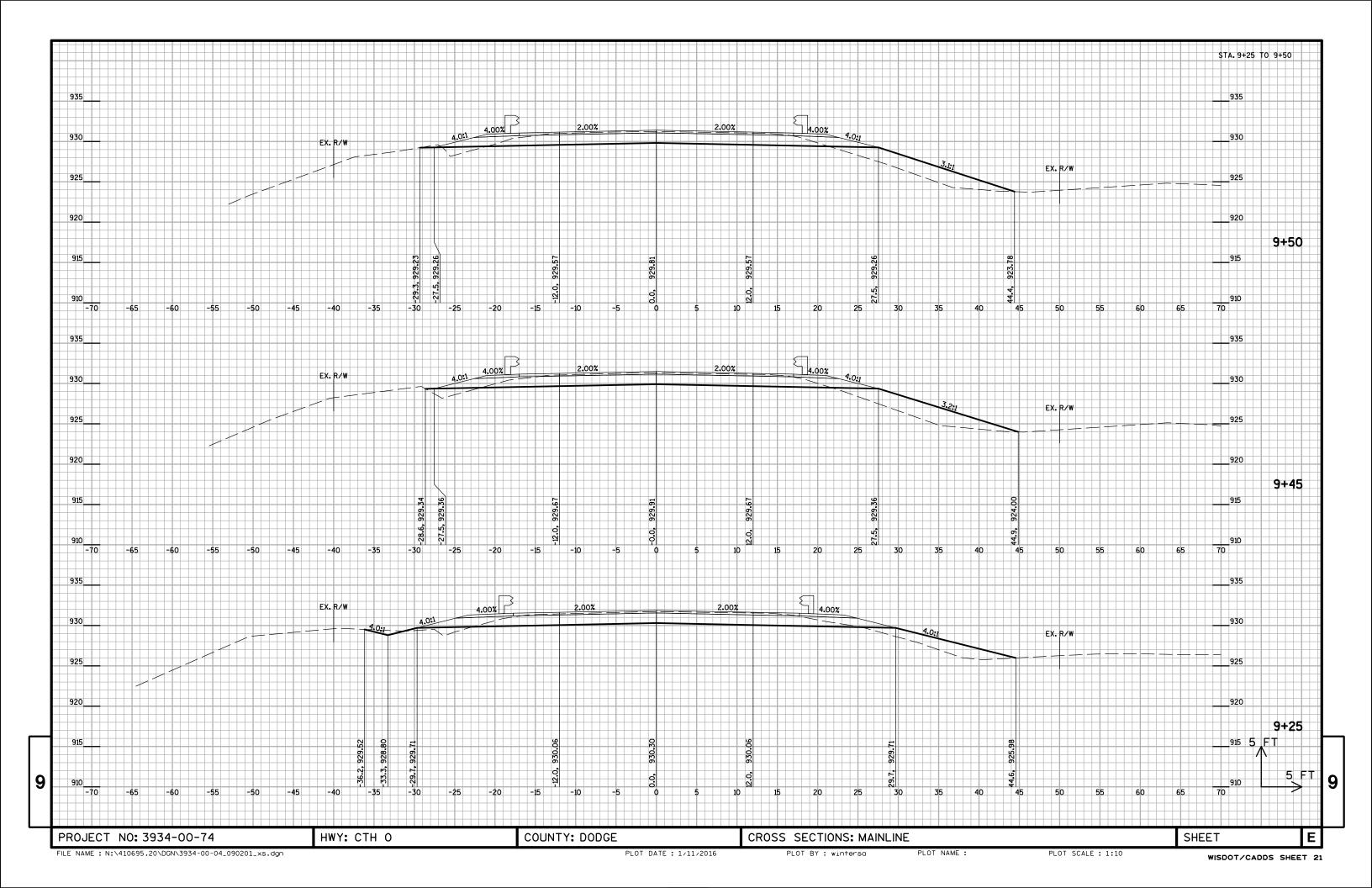
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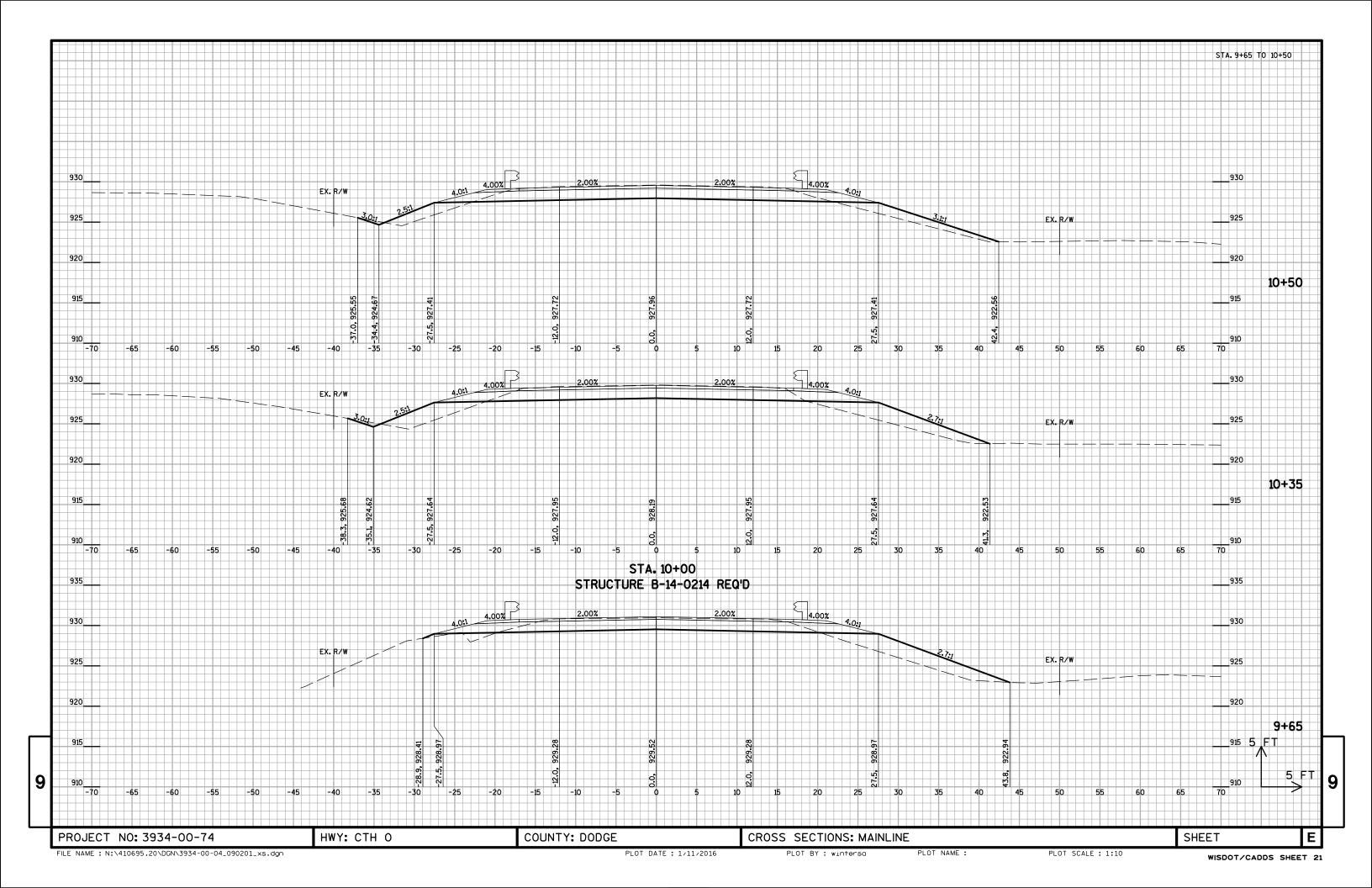
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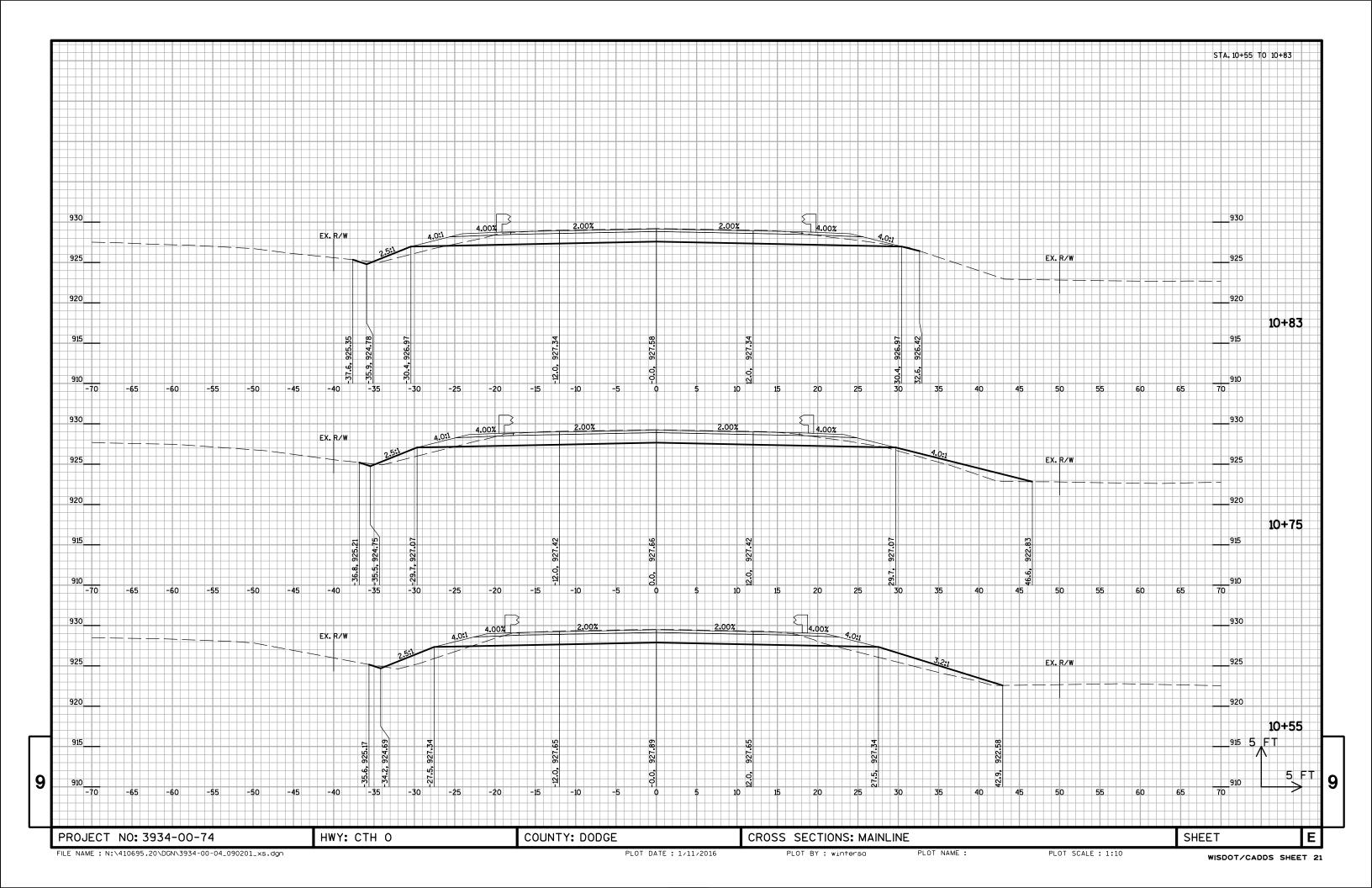
PROJECT NO: 3934-00-74 HWY: CTH O COUNTY: DODGE COMPUTER EARTHWORK DATA SHEET NO: E

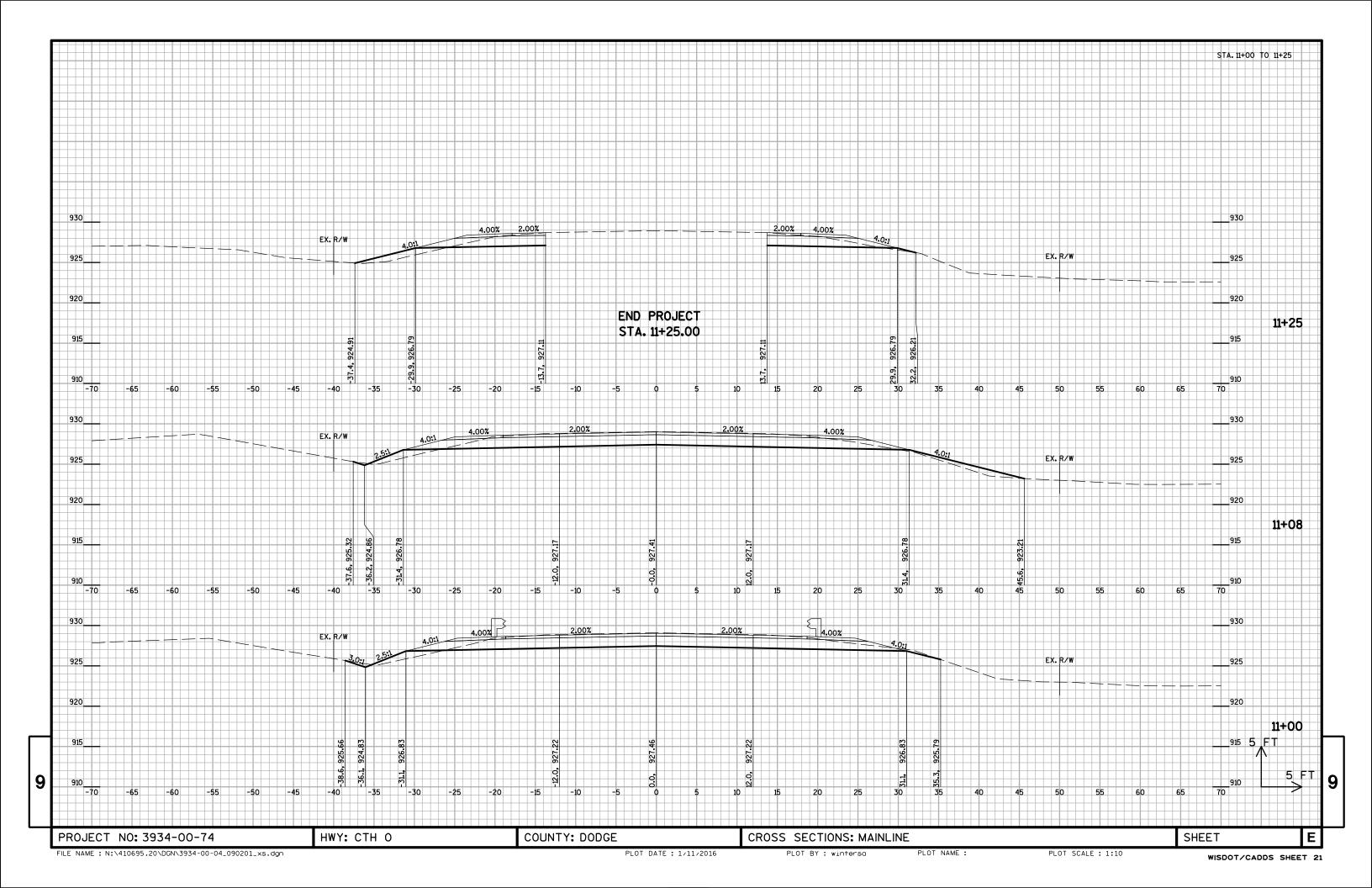


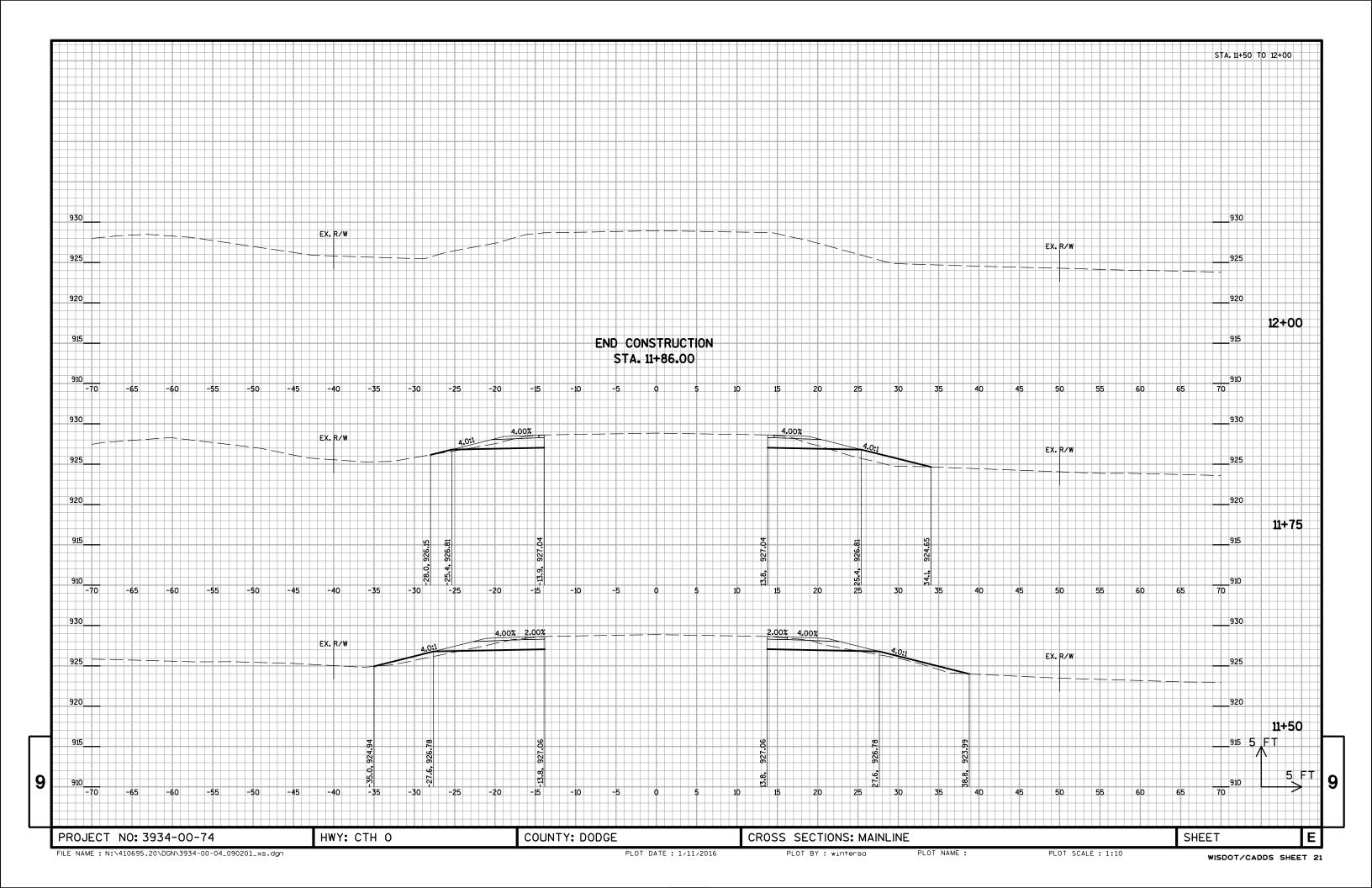














Wisconsin Department of Transportation

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