AUGUST 2023 FEDERAL PROJECT STATE PROJECT ORDER OF SHEETS STATE OF WISCONSIN PROJECT CONTRACT 5721-00-76 WISC 2023588 **DEPARTMENT OF TRANSPORTATION** Typical Sections and Details (Includes Erosion Control Plans) PLAN OF PROPOSED IMPROVEMENT Right of Way Plat Section No. Plan and Profile Section No. Standard Detail Drawings T JAMESTOWN, WOODLAND LANE Section No. Sign Plates Section No. Section No. Computer Earthwork Data **MENOMONIE RIVER BRIDGE, B-22-0301** Section No. Cross Sections LOC STR TOTAL SHEETS = ACCEPTED FOR TOWN OF JAMESTOWN **GRANT COUNTY** STATE PROJECT NUMBER 5721-00-76 R-2-W ORIGINAL PLANS PREPARED BY RIVER **JAMESTOWN** VALLEY SPRING ASSOCIATES' **BEGIN PROJECT DESIGN DESIGNATION** STA. 9+00.00 A.A.D.T. (2024) WISCONSIN X = 846,895.39A.A.D.T. (2044) = 52 Y = 409.319.56D.H.V. = 50/50 D.D. SANDY HOOK RD **ERIC P** = 2.0% **ANDERSON DESIGN SPEED** = 30 MPH E-48285 = 2,800 T-1-N ESALS NEW BERLIN, **STRUCTURE** WI B-22-301 GRAN. SONAL ENG CONVENTIONAL SYMBOLS (WOODLAND LN **PROFILE** GRADE LINE CORPORATE LIMITS 1////// ORIGINAL GROUND PROPERTY LINE 04/28/23 MARSH OR ROCK PROFILE LOT LINE (To be noted as such) LIMITED HIGHWAY EASEMENT SPECIAL DITCH FLAMINGO **EXISTING RIGHT OF WAY GRADE ELEVATION** STATE OF WISCONSIN PROPOSED OR NEW R/W LINE DEPARTMENT OF TRANSPORTATION **CULVERT (Profile View)** SLOPE INTERCEPT **END PROJECT** UTILITIES PREPARED BY REFERENCE LINE STRAND ASSOCIATES, INC. STA. 11+15.00 Surveyor ELECTRIC BANJO **EXISTING CULVERT** STRAND ASSOCIATES, INC. Designer FIBER OPTIC PROPOSED CULVERT Project Manage (Box or Pipe) Regional Examine SANITARY SEWER COMBUSTIBLE FLUIDS KYLE HEMP, P.E. STORM SEWER LAYOUT Regional Superviso 0.5 MI TELEPHONE HORIZONTAL POSITIONS SHOWN ON THIS PLAN ARE WISCONSIN COORDINATE REFERENCE SYSTEM (WISCRS), GRANT COUNTY SCALE APPROVED FOR THE DEPARTMENT MARSH AREA NAD83 (2022), IN U.S. SURVEY FEET. UTILITY PEDESTAL Brandan Burger TOTAL NET LENGTH OF CENTERLINE = 0.041 MI ELEVATIONS ARE REFERENCED TO NAVD 88 (2022). POWER POLE 6 WOODED OR SHRUB AREA TELEPHONE POLE Ø E FILE NAME : S:\MAD\4700--4799\4776\001\DRAWINGS\CAD\CIVIL 3D\SHEETS\010101-TI.DWG 4/28/2023 6:27 AM ANDERSON, ERIC

GENERAL NOTES

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.

EROSION CONTROL DEVICES ARE AT SUGGESTED LOCATIONS. THE ACTUAL LOCATIONS WILL BE DETERMINED BY THE CONTRACTORS ECIP AND BY THE ENGINEER. EROSION CONTROL DEVICES SHALL BE MAINTAINED UNTIL PERMANENT VEGETATION IS ESTABLISHED OR UNTIL THE ENGINEER DETERMINES THAT THE DEVICE IS NO LONGER REQUIRED.

DISTURBED AREAS WITHIN THE RIGHT-OF-WAY AND WITHIN TLE AND PLE SHALL BE RESTORED AS DIRECTED BY THE ENGINEER.

ELEVATIONS SHOWN ON THE PLANS ARE ALONG THE EDGE OF LANE OR EDGE OF PAVEMENT UNLESS OTHERWISE NOTED.

A SAWED JOINT SHALL BE REQUIRED WHEN NEW PAVEMENT IS TO MEET AN EXISTING PAVED SURFACE.

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

PROPOSED SIGN LOCATIONS SHALL BE REVIEWED BY THE ENGINEER PRIOR TO INSTALLATION.

UTILITY CONTACTS

** ALLIANT ENERGY

RANDY MARTIN 761 ENTERPRISE DRIVE PLATTEVILLE, WI 53818 (608)-342-4114 RANDYMARTIN@ALLIANTENERGY.COM

OTHER CONTACTS

TOWN OF JAMESTOWN CONTACT

STEVE FREESE TOWN CHAIRMAN P.O. BOX 189 KIELER, WI 53812 (608)-341-8860 STEVE.FREESE@YAHOO.COM

GRANT COUNTY

TRAVIS KRAMER GRANT COUNTY ENGINEER 1011 NORTH ADAMS STREET LANCASTER, WI 53813 TKRAMER@CO.GRANT.WI.GOV

JON KNAUTZ GRANT COUNTY HIGHWAY COMMISSIONER 1011 NORTH ADAMS STREET LANCASTER, WI 53813 (608)-723-2595 JKNAUTZ@CO.GRANT.WI.GOV

DESIGN CONSULTANT

ERIC ANDERSON, P.E. STRAND ASSOCIATES, INC. 126 N JEFFERSON STREET MILWAUKEE, WI 53202 (414)-271-0771 ERIC.ANDERSON@STRAND.COM

WISDNR CONTACT

ANDY BARTA DNR SOUTHWEST REGION 101 SOUTH WEBSTER STREET MADISON, WI 53703 (608)-235-2955 ANDREW.BARTA@WISCONSIN.GOV

WISDOT REGION CONTACT

BRANDAN BURGER, P.E. WISDOT SOUTHWEST REGION MADISON OFFICE 2101 WRIGHT STREET MADISON, WI 53704 (608)-267-4019 BRANDAN.BURGER@DOT.WI.GOV 2

HMA PAVEMENT SUMMARY TABLE

LAYER	THICKNESS	BID/MIX SPECIFICATION
UPPER	1.75-INCHES	4 LT 58-28 S
LOWER	2.25-INCHES	3 LT 58-28 S

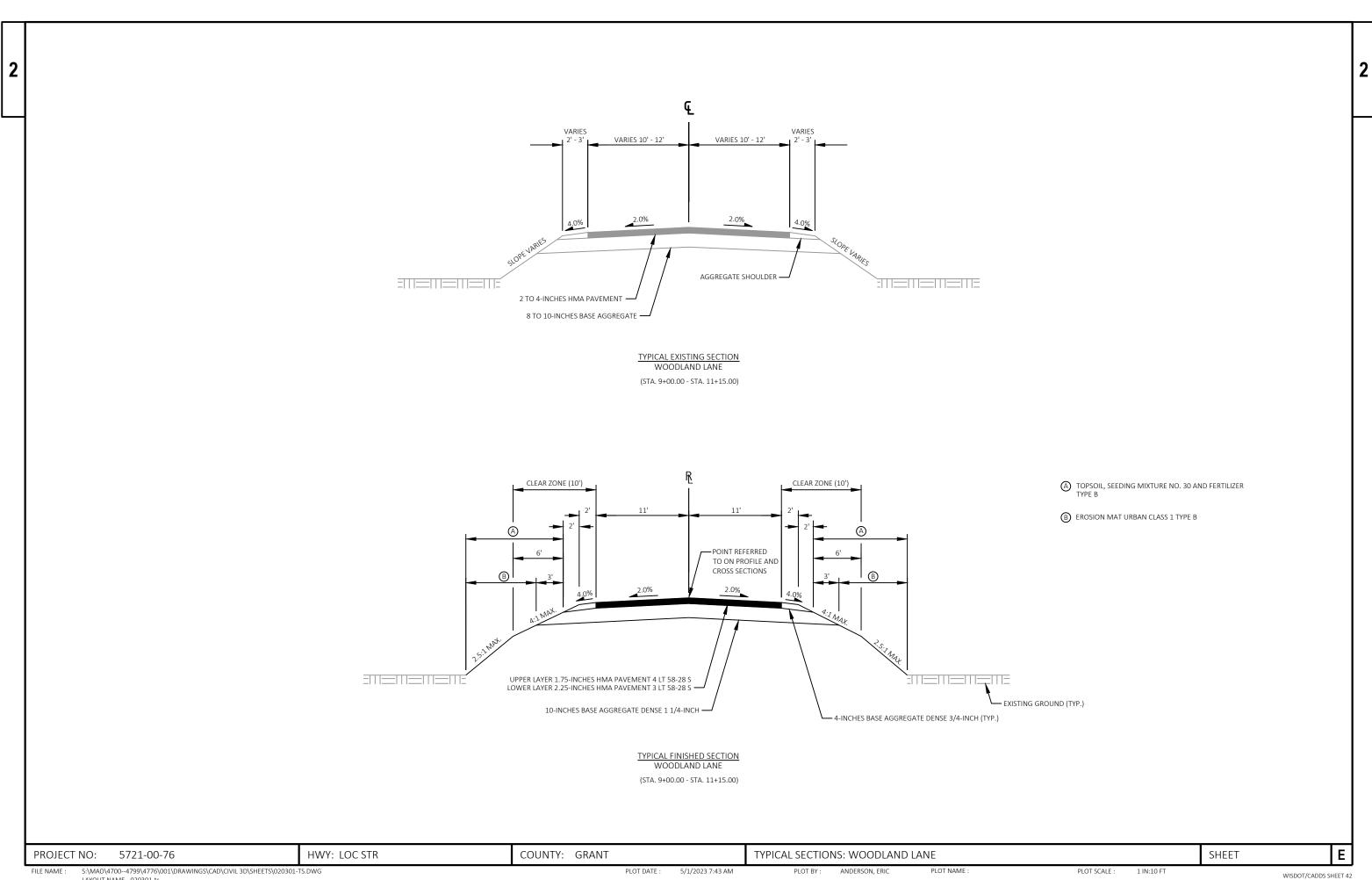


** DENOTES DIGGERS HOTLINE MEMBER

PROJECT NO: 5721-00-76 HWY: LOC STR COUNTY: GRANT **GENERAL NOTES** SHEET Ε PLOT SCALE :

5/1/2023 7:43 AM

ANDERSON, ERIC



WISDOT/CADDS SHEET 42 LAYOUT NAME - 020301-ts

ENHANCED TURBIDITY BARRIER DETAIL

PLAN VIEW

NOTES:

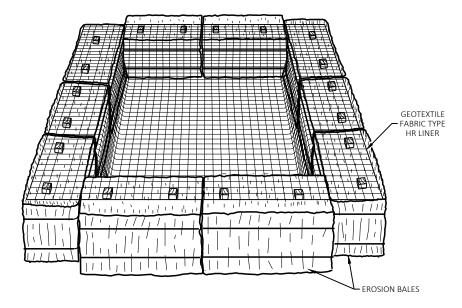
DETAILS OF CONSTRUCTION, MATERIALS AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS AND THE APPLICABLE SPECIAL PROVISIONS. SEE SDD 08E11-02 TURBIDITY BARRIER FOR ADDITIONAL INFORMATION.

TURBIDITY BARRIER MAY BE REMOVED AT THE ENGINEER'S 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 INSTALL A CONTINUOUS LINE OF ROCK BAGS TO ANCHOR THE BARRIER TO THE STREAM BED.
- 3 ESTIMATE HIGH WATER ELEVATION DURING CONSTRUCTION PERIOD. MINIMUM BARRIER HEIGHT SHALL BE 2 FEET GREATER THAN EITHER THE Q2 ELEVATION OR THE ESTIMATED HIGH WATER ELEVATION DURING CONSTRUCTION, WHICHEVER IS GREATER.

Ε PROJECT NO: 5721-00-76 HWY: LOC STR COUNTY: GRANT **CONSTRUCTION DETAILS** SHEET FILE NAME :

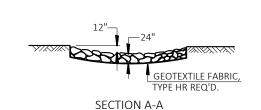
S:\MAD\4700--4799\4776\001\DRAWINGS\CAD\CIVIL 3D\SHEETS\021001-CD.DWG 5/1/2023 7:43 AM PLOT BY: ANDERSON, ERIC PLOT NAME : PLOT SCALE : 1 IN:10 FT WISDOT/CADDS SHEET 42 LAYOUT NAME - 021001-cd

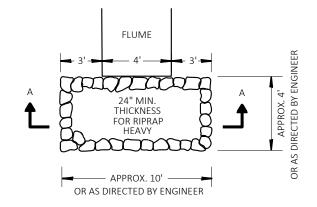


EXAMPLE TEMPORARY SETTLING BASIN DETAIL

NOTES

- 1. CONTRACTOR SHALL PUMP TURBID WATER FROM EXCAVATION TO SEDIMENT BAG PLACED INSIDE FABRIC LINED STAKED BALE ENCLOSURE PRIOR TO DISCHARGING TO DITCHES/INLETS/WETLANDS OR WATERWAYS.
- 2. SEDIMENT BAG TO BE PLACED IN AN UPLAND VEGETATED AREA OR EQUIVALENT LOCATION APPROVED BY THE ENGINEER.
- 3. BASIN TO BE KEPT LESS THAN 10% FULL OF SEDIMENT. GEOTEXTILE FABRIC AND SEDIMENTS TO BE DISPOSED BY THE CONTRACTOR OFF OF THE PROJECT SITE.
- 4. TEMPORARY SETTLING BASIN AND SEDIMENT BAG TO BE INCIDENTAL TO CONTRACT.
- 5. SEDIMENT BAG, BALES AND FABRIC TO BE REPLACED AS NECESSARY AND IS INCIDENTAL TO CONTRACT.
- 6. SIZE TO BE DETERMINED BY THE CONTRACTOR AS PART OF THE ECIP





RIPRAP HEAVY TREATMENT AT ASPHALTIC FLUMES

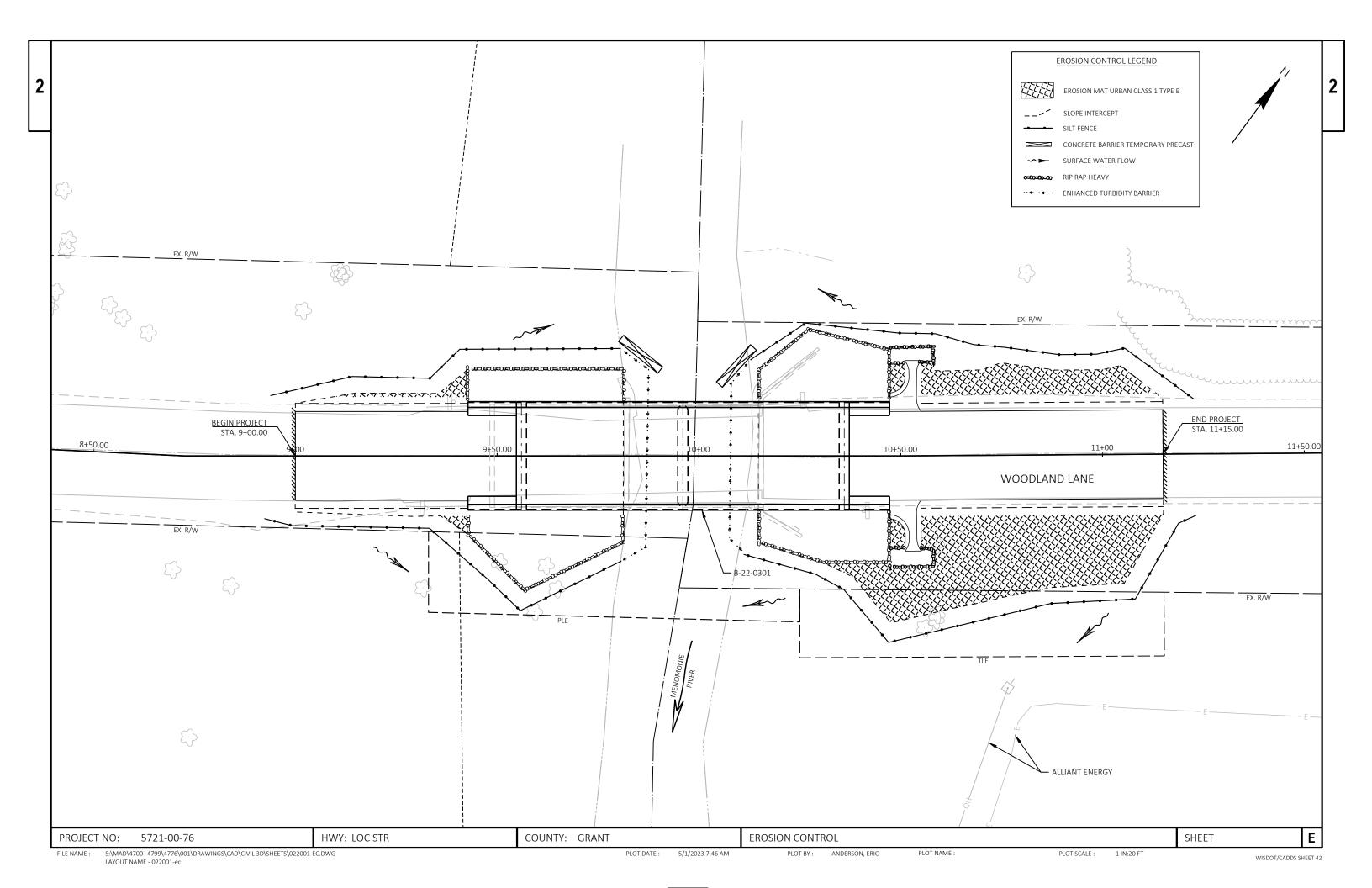
SEE EROSION CONTROL SHEETS FOR LOCATIONS

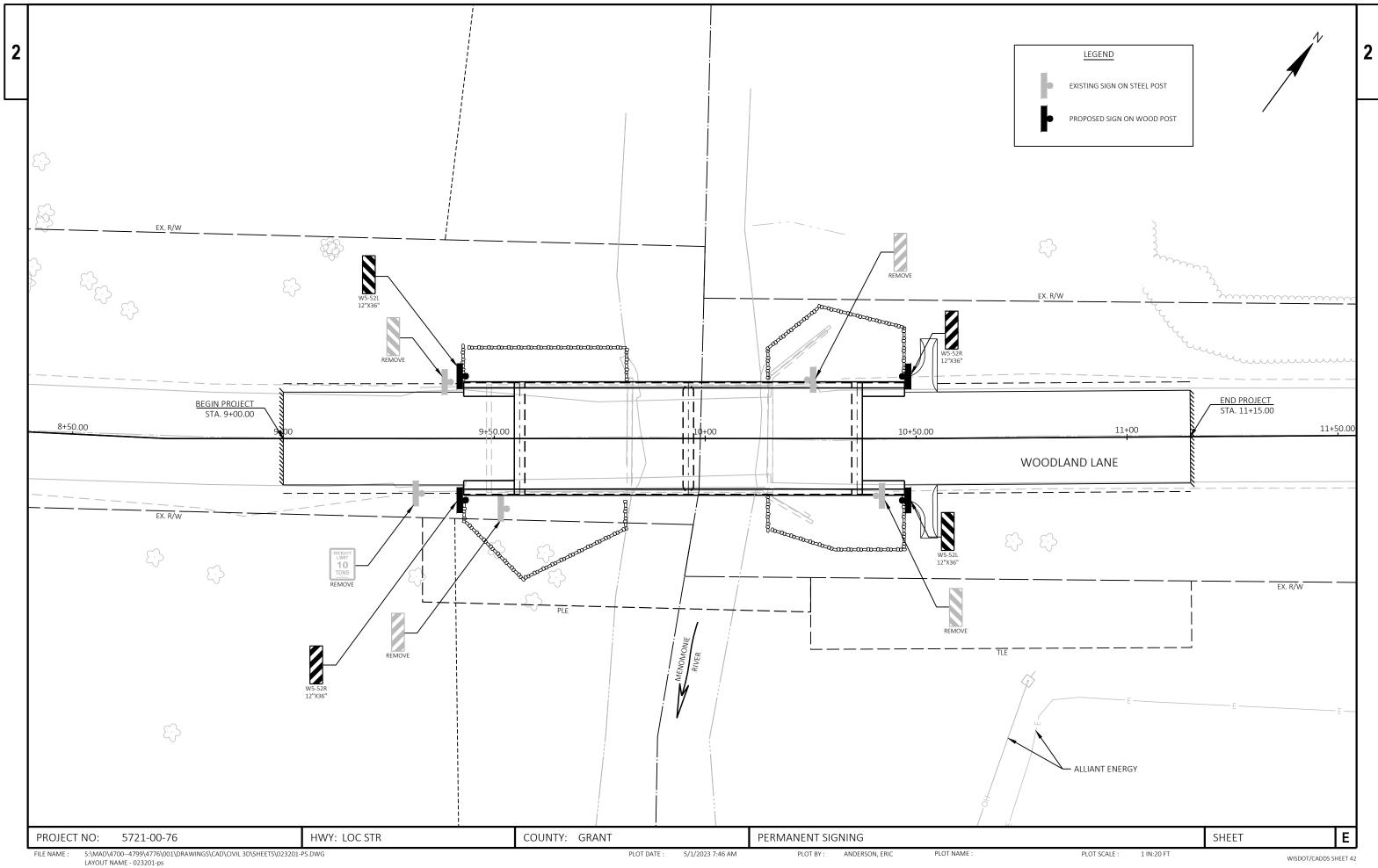
RUNOFF COEFFICIENT TABLE

		HYDROLOGIC SOIL GROUP										
	A			В			С			D		
	SLOPE	RANGE	(PERCENT)	SLO	PE RANG	GE (PERCENT)	SLOPE RANGE (PERCENT)			SLOPE RANGE (PERCENT)		
LAND USE:	0-2	2-6	6 & OVER	0-2	2-6	6 & OVER	0-2	2-6	6 & OVER	0-2	2-6	6 & OVER
ROW CROPS	.08 .22	.16 .30	.22 .38	.12 .26	.20 .34	.27 .44	.15 .30	.24 .37	.33 .50	.19 .34	.28 .41	.38 .56
MEDIAN STRIP - TURF	.19 .24	.20 .26	.24 .30	.19 .25	.22 .28	.26 .33	.20 .26	.23 .30	.30 .37	.20 .27	.25 .32	.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, SI	HOULDER	RS				.4060						

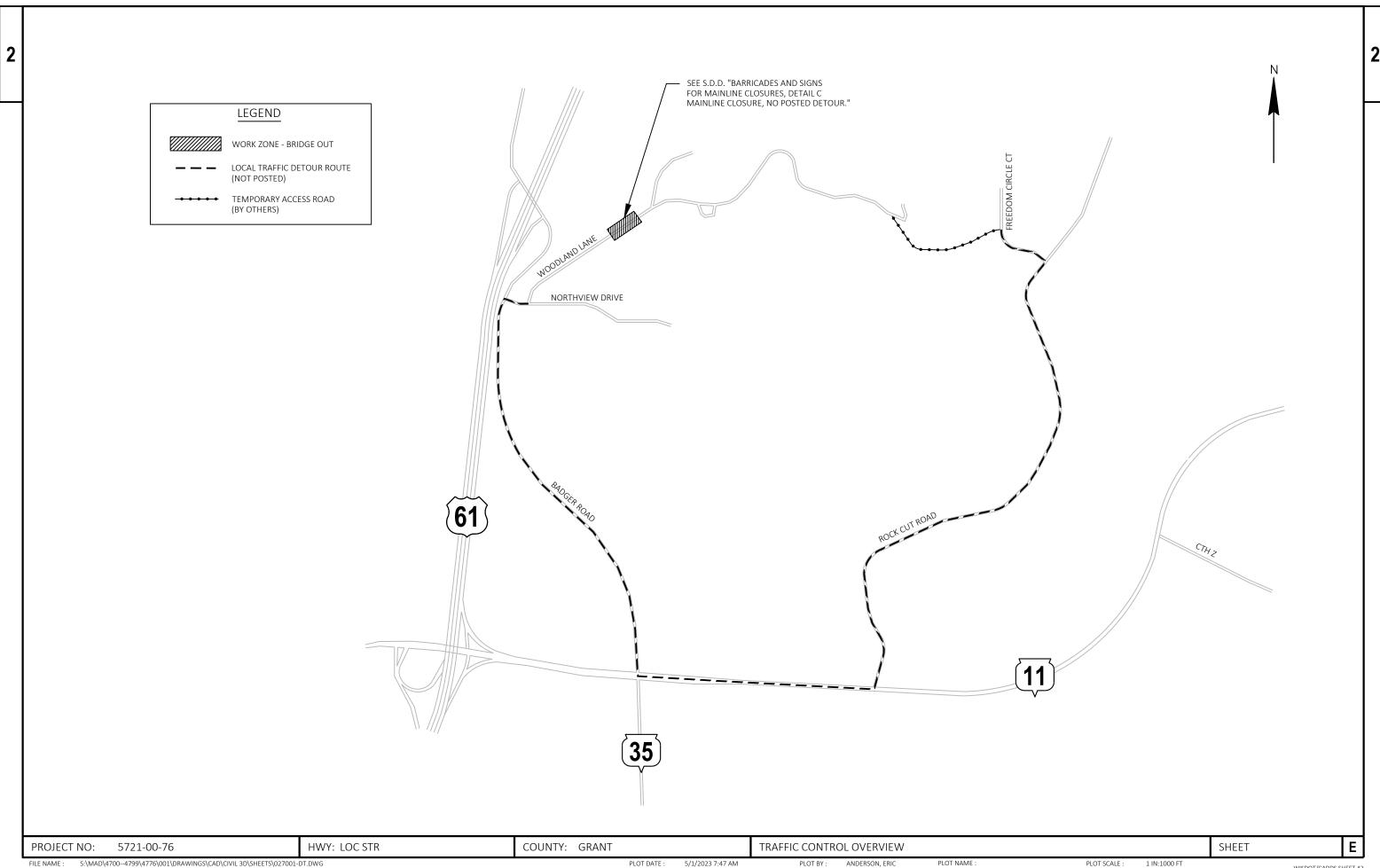
TOTAL PROJECT AREA = 0.27 ACRES

TOTAL AREA EXPECTED TO BE DISTURBED BY CONSTRUCTION ACTIVITIES = 0.21 ACRES





WISDOT/CADDS SHEET 42



S:\MAD\4700--4799\4776\001\DRAWINGS\CAD\CIVIL 3D\SHEETS\027001-DT.DWG LAYOUT NAME - 027001-dt

PLOT SCALE :

S:\MAD\4700--4799\4776\001\DRAWINGS\CAD\CIVIL 3D\SHEETS\027201-AD.DWG FILE NAME : LAYOUT NAME - 027201-ad

PLOT BY: ANDERSON, ERIC

PLOT SCALE :

F704	00.70
2/21	-00-76

					5721-00-76	
Line	Item	Item Description	Unit	Total	Qty	
0002	201.0205	Grubbing	STA	2.000	2.000	
0004	203.0250	Removing Structure Over Waterway Remove Debris (structure) 01. P-22-956	EACH	1.000	1.000	
0006	205.0100	Excavation Common	CY	226.000	226.000	
8000	206.1001	Excavation for Structures Bridges (structure) 01. B-22-301	EACH	1.000	1.000	
0010	210.1500	Backfill Structure Type A	TON	180.000	180.000	
0012	213.0100	Finishing Roadway (project) 01. 5721-00-76	EACH	1.000	1.000	
0014	305.0110	Base Aggregate Dense 3/4-Inch	TON	16.000	16.000	
0016	305.0120	Base Aggregate Dense 1 1/4-Inch	TON	282.000	282.000	
0018	311.0110	Breaker Run	TON	106.000	106.000	
0020	455.0605	Tack Coat	GAL	22.000	22.000	
0022	460.2000	Incentive Density HMA Pavement	DOL	60.000	60.000	
0024	460.5223	HMA Pavement 3 LT 58-28 S	TON	45.000	45.000	
0026	460.5224	HMA Pavement 4 LT 58-28 S	TON	34.000	34.000	
0028	465.0315	Asphaltic Flumes	SY	16.000	16.000	
0030	502.0100	Concrete Masonry Bridges	CY	269.000	269.000	
0032	502.3200	Protective Surface Treatment	SY	220.000	220.000	
0034	502.3210	Pigmented Surface Sealer	SY	103.000	103.000	
0034	505.0400	Bar Steel Reinforcement HS Structures	LB	6,850.000	6,850.000	
0038	505.0600	Bar Steel Reinforcement HS Coated Structures	LB	34,650.000	34,650.000	
0040	516.0500	Rubberized Membrane Waterproofing	SY	17.000	17.000	
0042	550.0020	Pre-Boring Rock or Consolidated Materials	LF	120.000	120.000	
0044	550.1100	Piling Steel HP 10-Inch X 42 Lb	LF	380.000	380.000	
0044	603.8000	Concrete Barrier Temporary Precast Delivered	LF	25.000	25.000	
0048	603.8125	Concrete Barrier Temporary Precast Delivered Concrete Barrier Temporary Precast Installed	LF	25.000	25.000	
0050	606.0300	Riprap Heavy	CY	287.000	287.000	
0052	612.0406	Pipe Underdrain Wrapped 6-Inch	LF	182.000	182.000	
0052	618.0100	Maintenance And Repair of Haul Roads (project) 01. 5721-00-76	EACH	1.000	1.000	
0056	619.1000	Mobilization	EACH	1.000	1.000	
0058	624.0100	Water	MGAL	4.500	4.500	
0060	625.0100	Topsoil	SY	307.000	307.000	
0060	628.1504	Silt Fence	LF	443.000	443.000	
0062	628.1520	Silt Fence Maintenance	LF	443.000	443.000	
0064	628.1905	Mobilizations Erosion Control	EACH	5.000	5.000	
0068		Mobilizations Emergency Erosion Control	EACH	3.000	3.000	
	628.1910 628.2008					
0070		Erosion Mat Urban Class I Type B	SY CWT	262.000 19.200	262.000 19.200	
0072	629.0210	Fertilizer Type B				
0074	630.0130	Seeding Mixture No. 30	LB	5.500	5.500	
0076	630.0500	Seed Water	MGAL	6.800	6.800	
0078	634.0616	Posts Wood 4x6-Inch X 16-FT	EACH	4.000	4.000	
0800	637.2230	Signs Type II Reflective F	SF	12.000	12.000	
0082	638.2602	Removing Signs Type II	EACH	5.000	5.000	
0084	638.3000	Removing Small Sign Supports	EACH	5.000	5.000	
0860	642.5201	Field Office Type C	EACH	1.000	1.000	
8800	643.0420	Traffic Control Barricades Type III	DAY	3,780.000	3,780.000	
0090	643.0705	Traffic Control Warning Lights Type A	DAY	7,560.000	7,560.000	
0092	643.0900	Traffic Control Signs	DAY	2,940.000	2,940.000	
0094	643.5000	Traffic Control	EACH	1.000	1.000	
0096	645.0111	Geotextile Type DF Schedule A	SY	38.000	38.000	
0098	645.0120	Geotextile Type HR	SY	483.000	483.000	

06/15/2023 06:54:32

Estimate Of Quantities
Lottinato or quantitio

ge	2	
_		

					5721-00-76
Line	Item	Item Description	Unit	Total	Qty
0100	650.4500	Construction Staking Subgrade	LF	133.000	133.000
0102	650.5000	Construction Staking Base	LF	133.000	133.000
0104	650.6501	Construction Staking Structure Layout (structure) 01. B-22-301	EACH	1.000	1.000
0106	650.9911	Construction Staking Supplemental Control (project) 01. 5721-00-76	EACH	1.000	1.000
0108	650.9920	Construction Staking Slope Stakes	LF	133.000	133.000
0110	690.0150	Sawing Asphalt	LF	44.000	44.000
0112	715.0502	Incentive Strength Concrete Structures	DOL	1,614.000	1,614.000
0114	SPV.0180	Special 01. Enhanced Turbidity Barriers	SY	108.000	108.000

3

EVD.	$T \sqcup V V V V$	שםר	CIII	MMARY	

CATEGORY	LOCATION	STA	TO	STA	(C) CUT CY	(E) EXCAVATION BELOW SUBGRADE CY	(2) 205.0100 EXCAVATION COMMON CY	(S) SALVAGED/ UNUSABLE PAVEMENT MATERIAL CY	(4) AVAILABLE MATERIAL CY	(5) 100% REDUCED EBS IN FILL CY	(6) 130.0% EXPANDED EBS BACKFILL CY	UNEXPANDED FILL CY	(7) 100.0% UNDISTRIBUTED 311.0110 BREAKER RUN TON***	(8) ** 130.00% EXPANDED FILL CY	(9) MASS ORDINATE EXCESS (SHORTAGE) CY
0010	WOODLAND LANE	9+00 10+37	-	9+55 11+15	73 108	18 27	91 135	16 20	57 88	18 27	24 35	0 89	43 63	 115	57 (27)
		TOTAL			181		226	36	145	45	59	89	106	115	30

NOTES

1) EXCAVATION BELOW SUBGRADE (E) = 25% OF CUT (C)

2) EXCAVATION COMMON IS THE SUM OF THE CUT (C) AND EXCAVATION BELOW SUBGRADE.

3) EBS EXCAVATION (E) TO BE BACKFILLED WITH BREAKER RUN.

4) AVAILABLE MATERIAL = CUT (C) - (S).

5) SOILS REMOVED AS EBS MUST BE WASTED OFFSITE AND NOT REUSED AS FILL.

6) EXPANDED EBS BACKFILL. THIS IS TO BE FILLED WITH BREAKER RUN. EBS EXPANSION FACTOR 1.30.

7) UNDISTRIBUTED QUANTITY OF BREAKER RUN USED TO FILL EBS.

8) EXPANDED FILL = {UNEXPANDED FILL * 130% FILL FACTOR}.

9) MASS ORDINATE =AVAILABLE MATERIAL (4) - EXPANDED FILL (8) = BORROW AND SELECT BORROW OR WASTE

** FILL EXPANSION FACTOR = 1.30

*** CY TO TON CONVERSION FACTOR = 1.80 TON/CY

GRI	IBBING	VIIIS	MARY

			201.0205
CATEGORY	STATION - STATION	LOCATION	GRUBBING STA
CATEGORI	31/11/014 31/11/014	200/111014	31/1
0010	9+00 - 9+55	LT/RT	1
	10+37 - 11+15	LT/RT	1
		TOTALS	2

BASE AGGREGATE SUMMARY

			305.0110 BASE AGGREGATE	305.0120 BASE AGGREGATE	624.0100
			DENSE 3/4-INCH	DENSE 1 1/4-INCH	WATER
CATEGORY	STATION - STATION	LOCATION	TON	TON	MGAL
0010	9+00 - 9+55	LT & RT	6	108	1.7
	10+37 - 11+15	LT & RT	8	154	2.4
	UNDISTRIBUTED		2	20	0.4
		TOTALS	16	282	4.5

FINISHING ROADWAY

		213.0100
CATEGORY	PROJECT I.D.	EACH
0010	5721-00-76	1

ASPHALT ITEMS

			455.0605	460.5223	460.5224
				HMA	HMA
			TACK	PAVEMENT	PAVEMENT
			COAT	3 LT 58-28 S	4 LT 58-28 S
CATEGORY		LOCATION	GAL	TON	TON
0010	9+00 - 9+55	LT & RT	9	19	14
	10+37 - 11+15	LT & RT	13	26	20
		TOTALS	22	45	34

PROJECT NO: 5721-00-76 HWY: LOC STR COUNTY: GRANT MISCELLANEOUS QUANTITIES SHEET: **E**

PLOT DATE : _____ PLOT BY : _____ PLOT NAME : PLOT SCALE : 1" = 1" WISDOT/CADDS SHEET 42

2	
.5	
•	

	ASPHALT	IC FLUMES		_		MOBILIZATION	
CATEGORY	STATION	LOCATION	465.0315 SY				619.1000
				_	CATEGORY	PROJECT I.D.	EACH
0010	10+53	LT	8		0010	5721-00-76	1
	10+53	RT	8				
		TOTALS	16				

RIPRAP 606.0300 645.0120 RIPRAP GEOTEXTILE HEAVY TYPE HR STATION LOCATION CY SY

TOTALS 9 13

5

4

6

			FINISHING IT	EMS			
			625.0100	628.2008 EROSION MAT	629.0210	630.0130 SEEDING	630.0500
				URBAN CLASS I	FERTILIZER	MIXTURE	SEED
			TOPSOIL	TYPE B	TYPE B	NO. 30	WATER
CATEGORY	STATION	LOCATION	SY	SY	CWT	LB	MGAL
0010	9+00 - 9+55	LT/RT	22	7	1.4	0.4	0.5
	10+37 - 11+15	LT/RT	215	185	13.5	3.9	4.8
	UNDISTRIBUTED		20	20	1.5	0.4	0.5
	WASTE SITE		50	50	2.8	0.8	1.0
		TOTALS	307	262	19.2	5.5	6.8

LT

RT

CATEGORY

0010

10+53 10+53

SILT FENCE SUMMARY						
			628.1504	628.1520 SILT FENCE		
			SILT FENCE	MAINTENANCE		
CATEGORY	STATION - STATION	LOCATION	LF	LF		
0010	9+00 - 9+55	LT	92	92		
	9+00 - 9+55	RT	100	100		
	10+37 - 11+15	LT	118	118		
	10+37 - 11+15	RT	133	133		
		TOTALS	443	443		

MOBILIZATIONS EMERGENCY EROSION CONTROL

MOBILIZATIONS EROSION CONTROL

CATEGORY

0010

628.1905

EACH

	628.1910
CATEGORY	EACH
0010	3

TRAFFIC CONTROL ITEMS

			643.0420	643.0705	643.0900
			TRAFFIC CONTROL	TRAFFIC CONTROL	TRAFFIC
			BARRICADES	WARNING LIGHTS	CONTROL
			TYPE III	TYPE A	SIGNS
CATEGORY	STATION	LOCATION	DAY	DAY	DAY
0010	9+00	WEST OF B-22-301	1,890	3780	1470
	11+15	EAST OF B-22-301	1,890	3780	1470
		TOTAL	3,780	7,560	2,940

ENHANCED TURBIDITY BARRIERS

				CONCRETE BAR	RIER TEMPORARY
			SPV.0180.01	603.8000	603.8125
			ENHANCED TURBIDITY	PRECAST	PRECAST
			BARRIERS	DELIVERED	INSTALLED
CATEGORY	STATION	LOCATION	SY	LF	LF
0010	9+00 - 9+55	LT & RT	58	12.5	12.5
	10+37 - 11+15	LT & RT	50	12.5	12.5
	_				
	_	TOTALS	108	25.0	25.0

PROJECT NO: 5721-00-76 HWY: LOC STR COUNTY: GRANT MISCELLANEOUS QUANTITIES SHEET: **E**

 LE NAME :

 PLOT BY :

 PLOT NAME :
 PLOT SCALE :
 1" = 1"
 WISDOT/CADDS SHEET 42

|3

SIGNING QUANTITIES									
					SIGN SIZE	634.0616 POSTS WOOD 4X6-INCH	637.2230 SIGNS TYPE II	638.2602 REMOVING SIGNS	638.3000 REMOVING SMALL
			SIGN	SIGN	(W x H)	16-FT	REFLECTIVE F	TYPE II	SIGN SUPPORTS
CATEGORY	STATION	LOCATION	CODE	MESSAGE	IN X IN	EACH	SF	EACH	EACH
0010	9+22 9+43	RT LT	R12-1 W5-52L	WEIGHT LIMIT 10 TONS BRIDGE HASH MARKS	24 x 30 12 x 36	 1	3.0	1 1	1
	9+43	RT	W5-52R	BRIDGE HASH MARKS	12 x 36	1	3.0	1	1
	10+47	LT	W5-52L	BRIDGE HASH MARKS	12 x 36	1	3.0	1	1
	10+47	RT	W5-52R	BRIDGE HASH MARKS	12 x 36	1	3.0	1	1
			-	TOTALS		4	12	5	5

	FIELD OFFICE TYPE C					
		642.5201				
CATEGORY	PROJECT I.D.	EACH				
0010	5721-00-76	1				

	TRAFFIC CONTROL	
CATEGORY	PROJECT I.D.	643.5000 EACH
0010	5721-00-76	1

	CONSTRUCTION STAKING SUMMARY				
			650.4500	650.5000	650.992
					SLOPE
			SUBGRADE	BASE	STAKES
CATEGORY	STATION	LOCATION	LF	LF	LF
0010	9+00 - 9+55	LT & RT	55	55	55
	10+37 - 11+15	LT & RT	78	78	78
		TOTALS	133	133	133

650.6501 CATEGORY STRUCTURE EACH

0010

CONSTRUCTION STAKING STRUCTURE LAYOUT

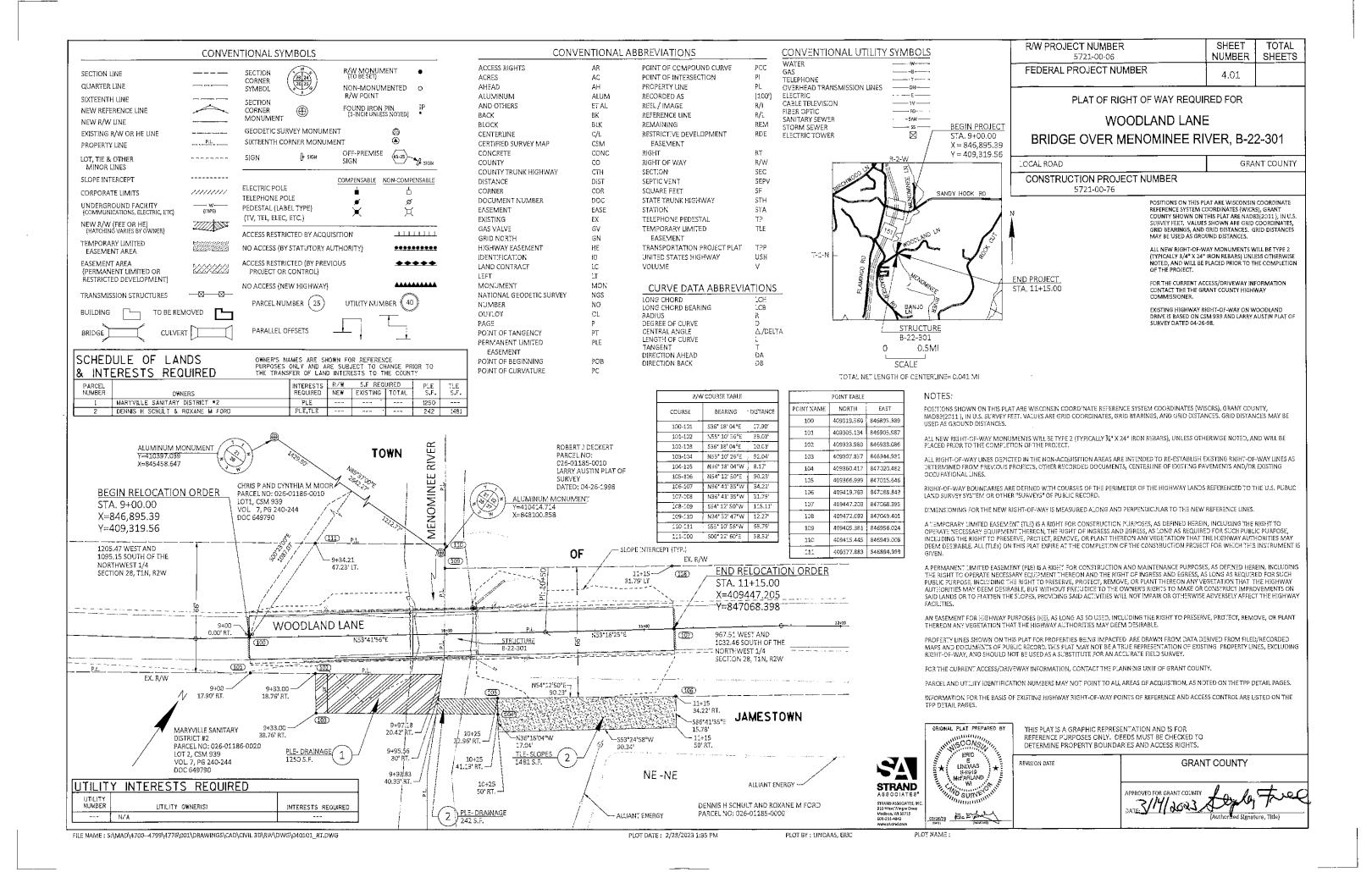
B-22-301

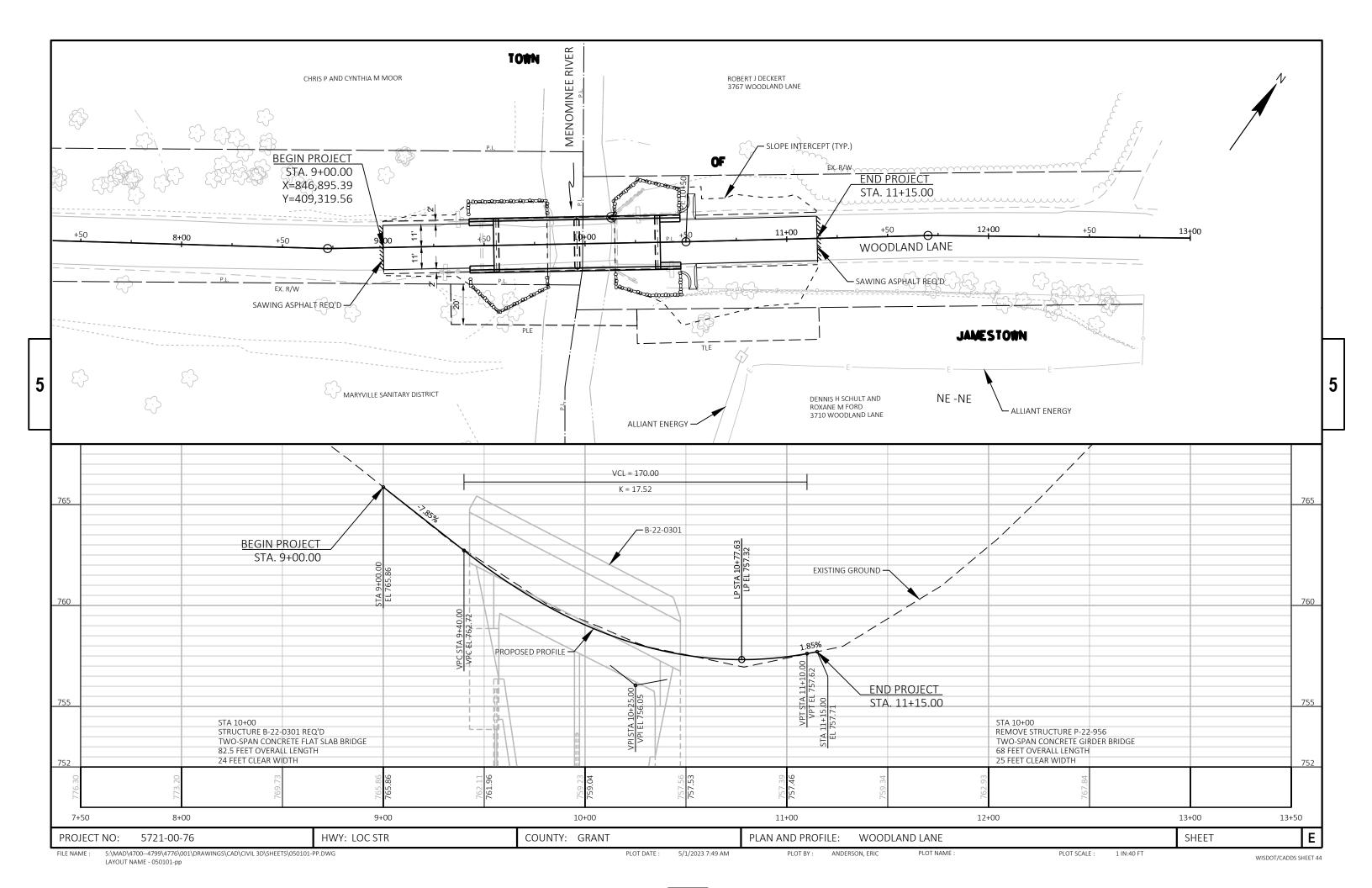
1

CONSTRUC	CONSTRUCTION STAKING SUPPLEMENTAL CONTROL					
		CEO 0011				
CATEGORY	PROJECT	650.9911 EACH				
0010	5721-00-76	1				

	SAWING AS	PHALT	
			690.0150
CATEGORY	STATION	LOCATION	LF
0010	9+00	LT & RT	22
	11+15	LT & RT	22
		TOTAL	44

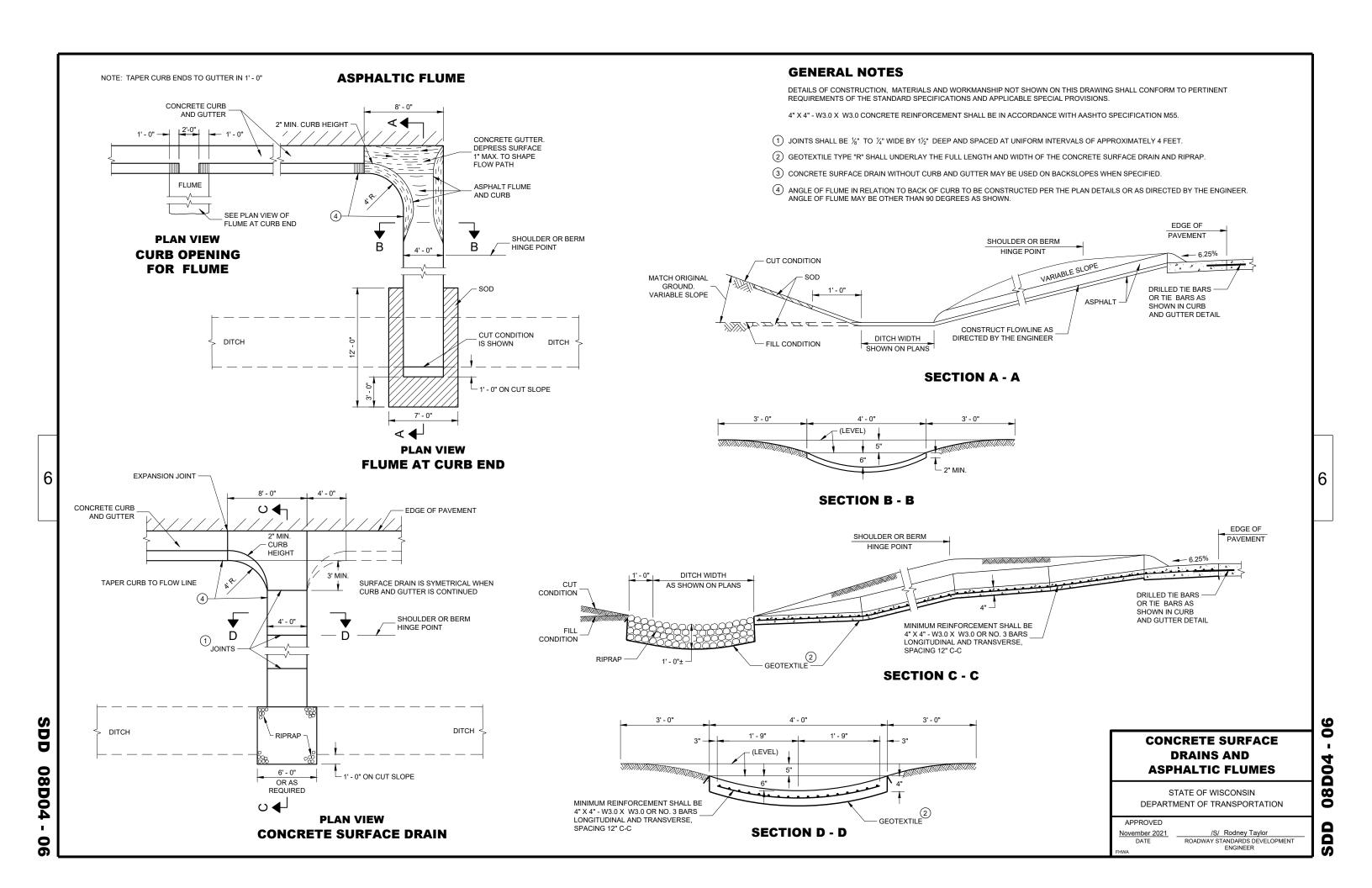
	PROJECT NO:	5721-00-76	HWY: LOC STR	COUNTY: GRANT	MISCELLANEOUS QUANTITIES	SHEET:	٤
_							_



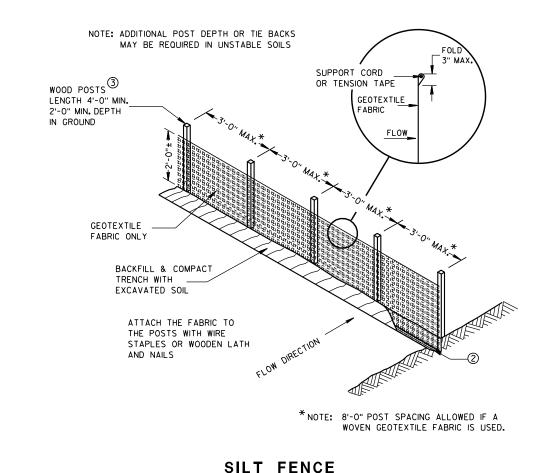


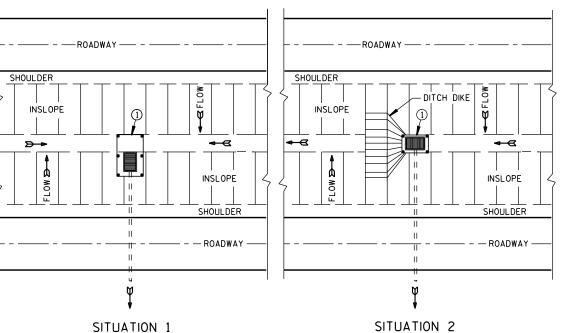
Standard Detail Drawing List

08D04-06	CONCRETE SURFACE DRAINS & ASPHALTIC FLUMES
08E09-06	SILT FENCE
08E11-02	TURBI DI TY BARRI ER
12A03-10	NAME PLATE (STRUCTURES)
13C19-03	HMA LONGITUDINAL JOINTS
15C02-08A	BARRICADES AND SIGNS FOR MAINLINE CLOSURES
15C11-10B	CHANNELIZING DEVICES DRUMS, CONES, BARRICADES AND VERTICAL PANELS

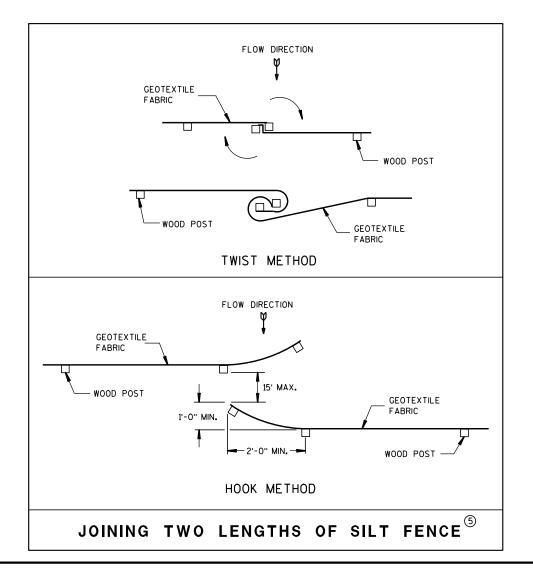


TYPICAL APPLICATION OF SILT FENCE





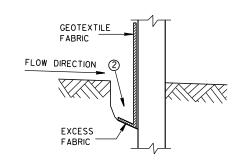
PLAN VIEW SILT FENCE AT MEDIAN SURFACE DRAINS



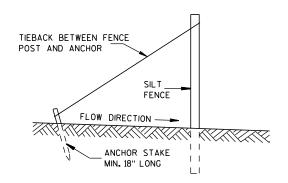
GENERAL NOTES

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

- ① HORIZONTAL BRACE REQUIRED WITH 2" X 4" WOODEN FRAME OR EQUIVALENT AT TOP OF POSTS.
- 2 FOR MANUAL INSTALLATIONS THE TRENCH SHALL BE A MINIMUM OF 4" WIDE & 6" DEEP TO BURY AND ANCHOR THE GEOTEXTILE FABRIC. FOLD MATERIAL TO FIT TRENCH AND BACKFILL & COMPACT TRENCH WITH EXCAVATED SOIL.
- 3 WOOD POSTS SHALL BE A MINIMUM SIZE OF 11/8" X 11/8" OF OAK OR HICKORY.
- 4) SILT FENCE TO EXTEND ACROSS THE TOP OF THE PIPE.
- (5) CONSTRUCT SILT FENCE FROM A CONTINUOUS ROLL IF POSSIBLE BY CUTTING LENGTHS TO AVOID JOINTS. IF A JOINT IS NECESSARY USE ONE OF THE FOLLOWING TWO METHODS; A) OVERLAP THE END POSTS AND TWIST, OR ROTATE, AT LEAST 180 DEGREES, B) HOOK THE END OF EACH SILT FENCE LENGTH.



TRENCH DETAIL



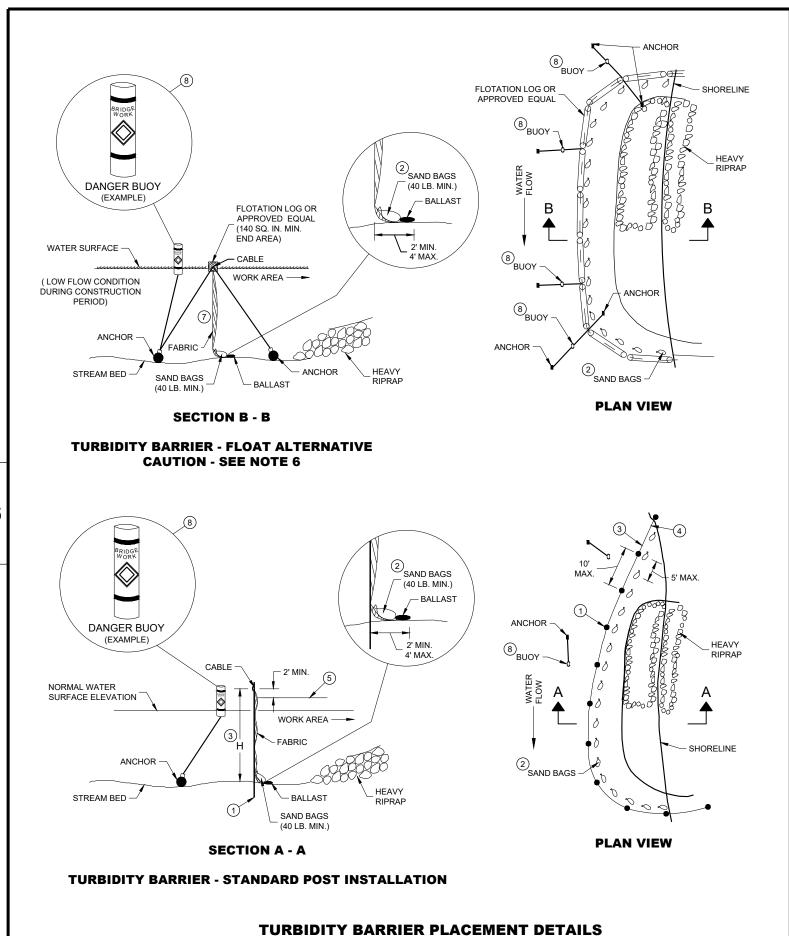
SILT FENCE TIE BACK (WHEN REQUIRED BY THE ENGINEER)

SILT FENCE STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION APPROVED 4-29-05 /S/ Beth Cannestra CHIEF ROADWAY DEVELOPMENT ENGINEER

Ш

တ ∞ Ω

6

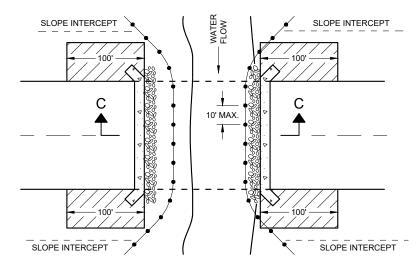


GENERAL NOTES

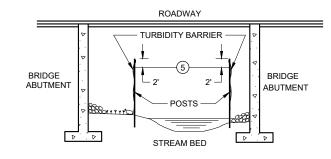
DETAILS OF CONSTRUCTION, MATERIALS AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS AND THE APPLICABLE SPECIAL PROVISIONS.

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
- (2) SAND BAGS 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 FEET, 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
- (5) ESTIMATED HIGH WATER ELEVATION DURING CONSTRUCTION PERIOD. MINIMUM BARRIER HEIGHT SHALL BE 2' GREATER THAN EITHER THE Q2 ELEVATION OR THE ESTIMATED HIGH WATER ELEVATION DURING CONSTRUCTION, WHICHEVER IS GREATER.
- (6) FLOAT ALTERNATIVE WILL ONLY BE ALLOWED WITH WRITTEN APPROVAL OF THE ENGINEER, AND IS MEANT FOR LOCATIONS WHERE BEDROCK 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.



PLAN VIEW



SECTION C - C

TURBIDITY BARRIER DETAIL SHOWING TYPICAL PLACEMENT AT STRUCTURES

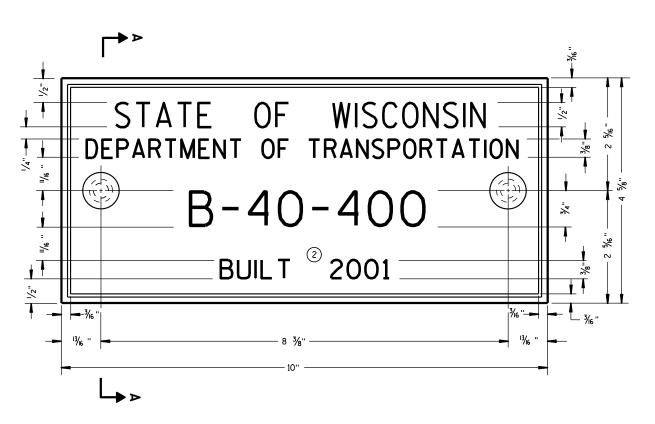
TURBIDITY BARRIER

STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION

APPROVED /S/ Beth Cannestra
CHIEF ROADWAY DEVELOPMENT
ENGINEER 6/4/02 DATE

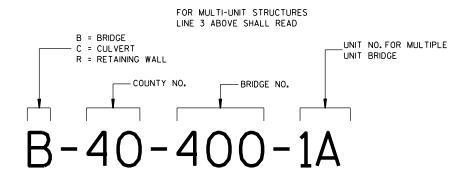
 ∞





TYPICAL NAME PLATE

(BRIDGES, CULVERTS, AND RETAINING WALLS)



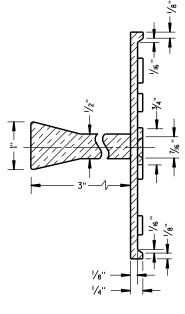
NUMBERING DESIGNATION MULTI-UNIT STRUCTURES

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.

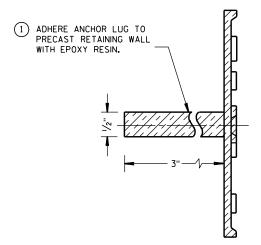
- 1 EPOXY RESIN SHALL BE FROM AN APPROVED MANUFACTURER AND USED IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS.
- REHABILITATION OF AN EXISTING STRUCTURE SHOULD USE THE DATE OF ORIGINAL STRUCTURE CONSTRUCTION.



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)

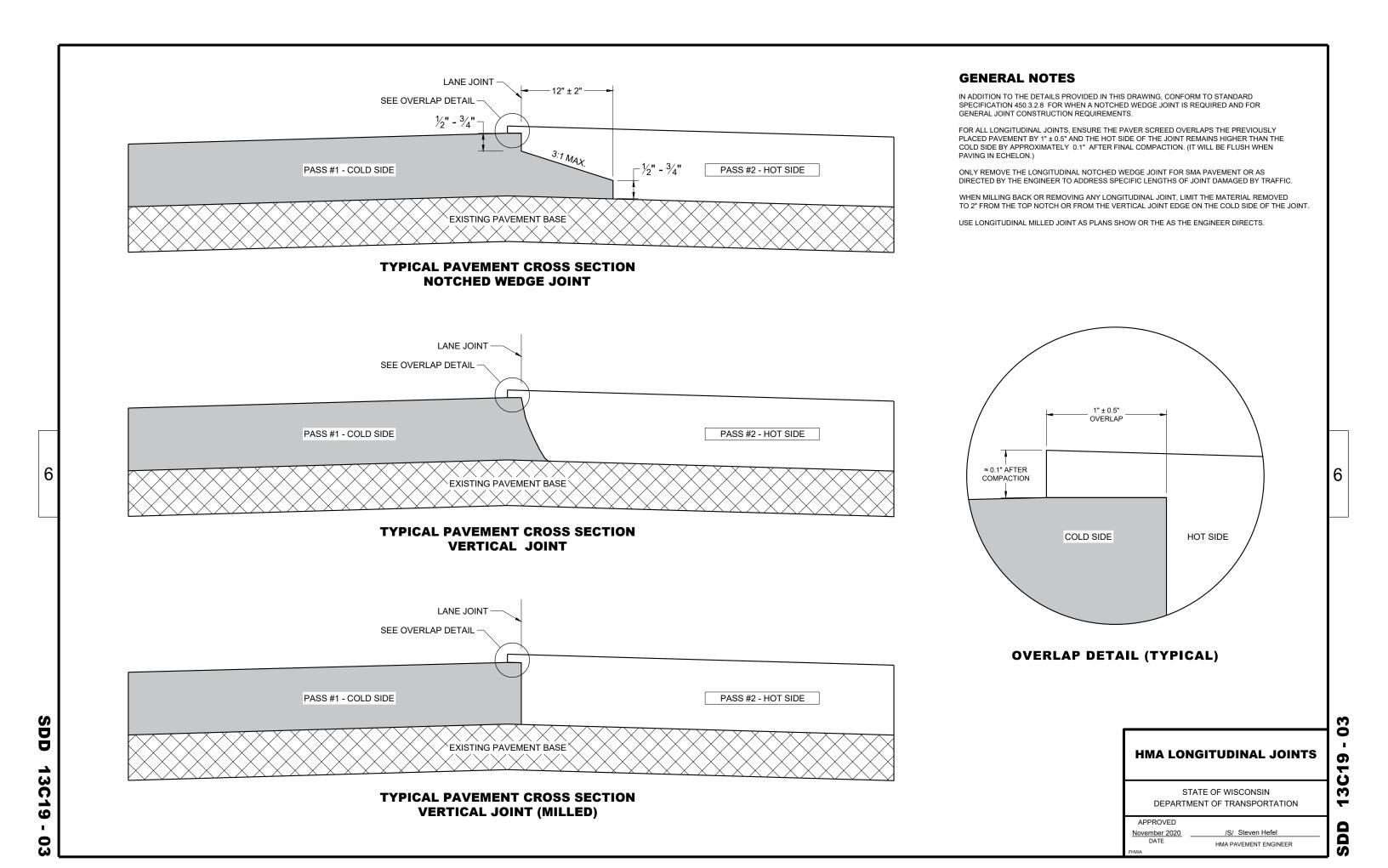
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

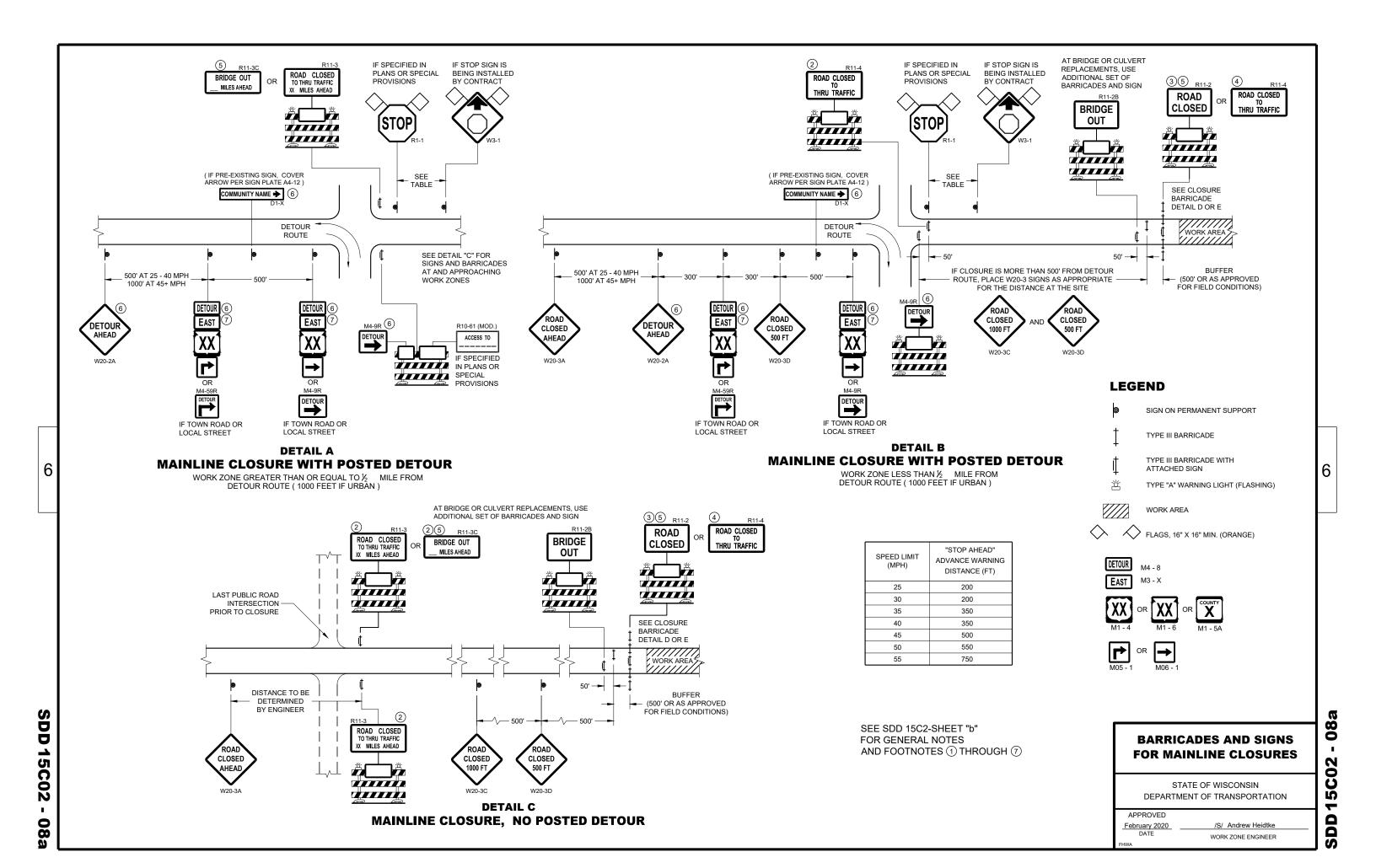
3-10

APPROVED

3/26/IO /S/ SCOT BECKET

CHIEF STRUCTURAL DEVELOPMENT ENGINEER

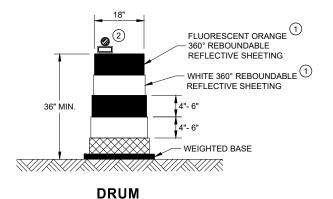




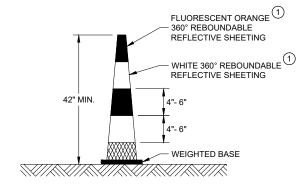
SDD 15C11

GENERAL NOTES

- (1) REFLECTIVE SHEETING SHALL FOLLOW THE REQUIREMENTS IN THE APPROVED PRODUCTS LISTING FOR SIGN SHEETING.
- (2) LOCATION OF WARNING LIGHTS WHEN SHOWN ON THE PLAN.

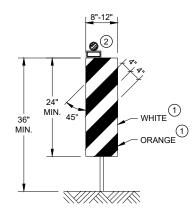


BALLAST WIDTHS RANGE FROM 24"-36"



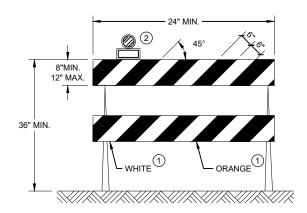
42" CONE

DO NOT USE IN TAPERS ½ SPACING OF DRUMS BALLAST WIDTHS RANGE FROM 14"-20"



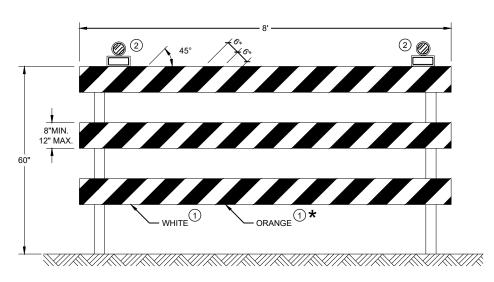
VERTICAL PANEL

THE STRIPES SHALL SLOPE DOWNWARD TO THE TRAFFIC SIDE FOR CHANNELIZATION.



TYPE II BARRICADE

FOR RAILS LESS THAN 36" LONG, 4" WIDE STRIPES MAY BE USED. ALL STRIPES SHALL SLOPE DOWNWARD TO THE TRAFFIC SIDE FOR CHANNELIZATION.



TYPE III BARRICADE

IF SIGN MOUNTED, DO NOT COVER MORE THAN 50% OF THE TOP TWO RAILS OR 33% OF THE TOTAL AREA OF THE THREE RAILS.

* IF USED FOR A PERMANENT APPLICATION USE RED SHEETING.

CHANNELIZING DEVICES DRUMS, CONES, BARRICADES AND VERTICAL PANELS

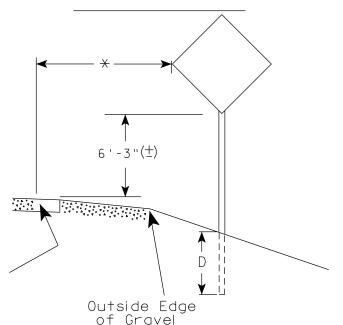
STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION 15C

APPROVED	
November 2022	/S/ Andrew Heidtke
DATE	WORK ZONE ENGINEER
FHWA	

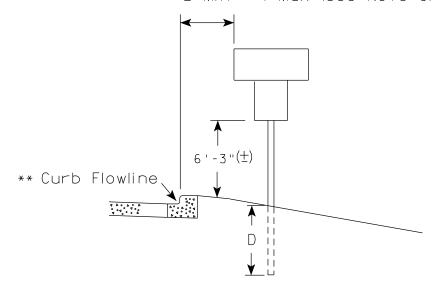
2' Min - 4' Max (See Note 6)

The state of t

White Edgeline Location



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



White Edgeline Location

geline

Outside Edge
of Gravel

** The existence of curb and gutter does not in itself mandate the vertical clearance illustrated. That height is typically measured where there is sidewalk adjacent to the roadway or parking is permitted. In the absence of sidewalk vertical clearance is measured from the top of the curb. Offset of signs is

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.

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 or behind barrier wall, see A4-10 sign plate.

The Double Arrow sign (W12-1D) 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).

- 3. For expressways and freeways, mounting height is 7'- 3" (\pm) or 6'-3" (\pm) depending upon existence of a sub-sign.
- 4. Minimum mounting height for signs mounted on traffic signal poles is 5' 3'' ($\frac{+}{2}$).
- 5. Offset distance shall be consistent with existing signs or consistent throughout length of project.
- 6. The (±) tolerance for mounting height is 3 inches.
- 7. Folding signs shall be mounted at a height of 5'-3'' (\pm) or as directd by the Engineer.

POST EMBEDMENT DEPTH

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

TYPICAL INSTALLATION
OF PERMANENT TYPE II
SIGNS ON SINGLE POSTS

WISCONSIN DEPT OF TRANSPORTATION

APPROVED

Matthew R Rawh

For State Traffic Engineer

DATE 5/13/2020 PLATE NO. A4-3.22

SHEET NO:

Ε

PROJECT NO:

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

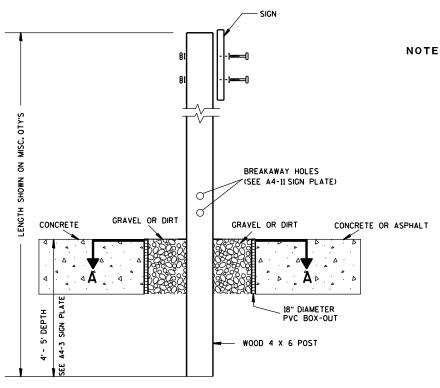
measured from the flow line.

COUNTY: PLOT DATE: 13-MAY 2020 1:04

PLOT BY : mscj9h

PLOT NAME :

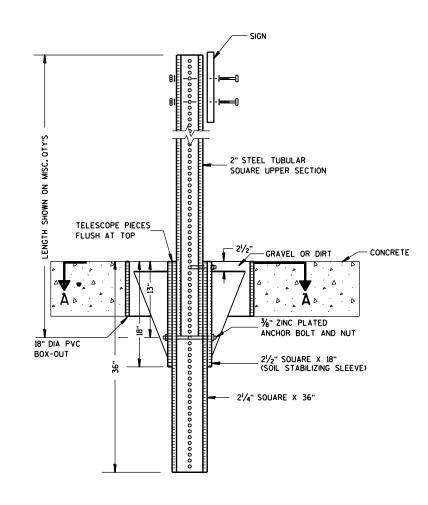
PLOT SCALE: \$\$.....plotscale.....\$\$ WISDOT/CADDS SHEET 42



NOTES: 1. ALL MATERIAL TO BE APPROVED

BY ENGINEER PRIOR TO INSTALLATION

- 2. SEE SIGN PLATE A4-8 FOR SIGN HARDWARE REQUIREMENTS
- 3. 18 INCH X 18 INCH SQUARE BOX-OUTS MAY BE USED FOR INSTALLATIONS IN EXISTING CONCRETE OR ASPHALT LOCATIONS.



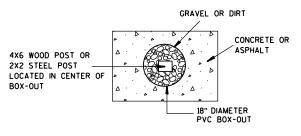
ELEVATION VIEW

DETAIL OF STEEL 2 X 2 SIGN POST IN BOX-OUT

ELEVATION VIEW

DETAIL OF WOOD 4 X 6 SIGN POST IN BOX-OUT

HWY:



PLAN VIEW

COUNTY:

FOR NEW CONCRETE/ASPHALT INSTALLATIONS

SIGN POST BOX-OUTS A4-3B

WISCONSIN DEPT OF TRANSPORTATION

For State Traffic Engineer

DATE 1/27/14 PLATE NO. A4-3B.1

SHEET NO:

FILE NAME : C:\CAEFiles\Projects\tr_stdplate\A43B.DGN

PROJECT NO:

PLOT DATE: 27-JAN-2014 09:48

PLOT NAME :

PLOT BY: mscsja

PLOT SCALE : 13.659812:1.000000

APPROVED

- 1. For 3 or 4 post installations, individual post spacing shall be greater than 3'-6".
- 2. See tables below for required number of posts.
- 3. For expressways and freeways, mounting height is 7'-3" (±) or 6'-3" (±) depending upon existence of sub-sign.
- 4. The (±) tolerance for mounting height is 3 inches.
- 5. J-Assemblies are considered to be one sign for mounting height.
- 6. Offset distance shall be consistent with existing signs or consistent throughout length of project.
- 7. Folding signs shall be mounted at a height of 5'-3'' (\pm) or as directed by the engineer.
- 8. The Double Arrow sign (W12-1) shall be mounted at a height of 2'-3" (±). The Chevron sign (W1-8), Roundabout Chevron panel (R6-4B), 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" (±).
- * 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.
- ** 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.
- $\star\star\star$ See A4-3 sign plate for signs 4' or less in width and less than 20 S.F. in area.

POST EMBEDMENT DEPTH

D
(Min)
4'
5'

OF TYPE II SIGNS
ON MULTIPLE POSTS

WISCONSIN DEPT OF TRANSPORTATION

APPROVED

APPROVED

TYPICAL INSTALLATION

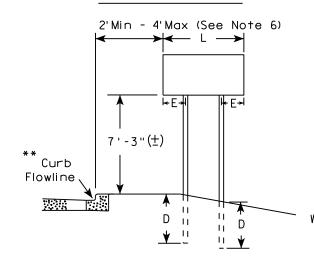
For State Traffic Engineer

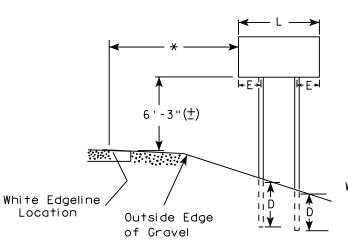
DATE 8/21/17 PLATE NO. A4-4.15

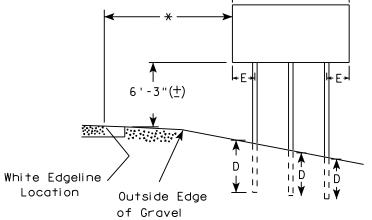
SHEET NO:

URBAN AREA

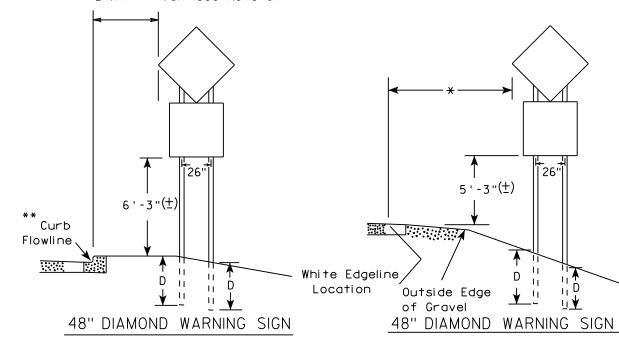
RURAL AREA (See Note 3)







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



	SIGN SHAPE OTHER THAN DIAMOND (TWO POSTS REQUIRED)					
***	L	E				
	Greater than 48" Less than 60"	12"				
	60" to 108"	L/5				

HWY:

SIGN SHAPE OTHER THAN (THREE POSTS REQUIR	
L	E
Greater than 108" to 144"	12''

COUNTY:

FILE NAME : C:\CAEfiles\Projects\tr_stdplate\A44.DGN

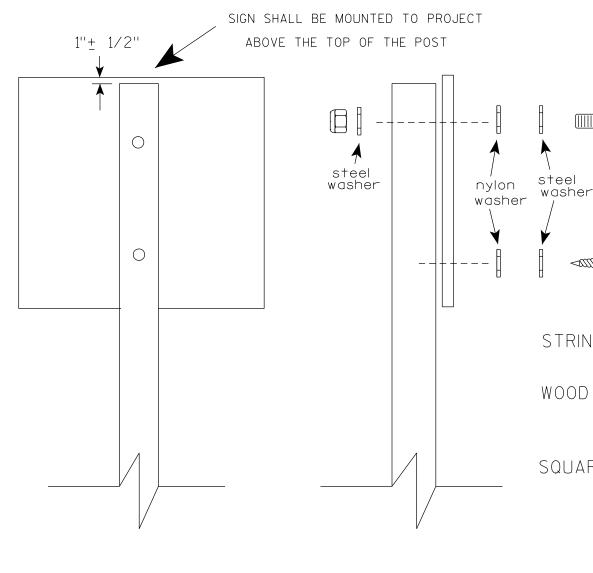
PROJECT NO:

PLOT DATE: 21-AUG-2017 15:54

PLOT BY: \$\$...plotuser...\$\$ PLOT NAME:

PLOT SCALE: 108.188297:1.000000

WISDOT/CADDS SHEET 42



Nuts, bolts and lags used for mounting signs shall have hexagonal heads and shall be either:

- a. Hot dip galvanized in accordance with ASTM Designation: A 153. Class D. or SC 3
- b. Electro-galvanized in accordance with ASTM Designation: B 633, TYPE III, SC 3.

Threads on bolts and nuts shall be manufactured with sufficient allowance for the cadmium plate or galvanized coating to permit the nuts to run freely on the bolts.

STRINGER BOLTING TO ALUMINUM SIGNS (SEE SIGN PLATE A4-18)

MACHINE BOLTS - $\frac{5}{16}$ " X 1-3/4" Length w/ lock nuts

WOOD POSTS $(4'' \times 6'')$

LAG SCREWS - 3/8" X 3" (NO STRINGERS ON BACK OF SIGN) 3/8" X 4" (STRINGERS ON BACK OF SIGN)

SQUARE STEEL POSTS (2" x 2")

MACHINE BOLTS - 3/8" X 3-1/4" Length w/ nuts (NO STRINGER ON BACK OF SIGN) 3/8" X 5" Length w/ nuts (STRINGERS ON BACK OF SIGN)

RIVETS - 3/32 " (6605-9-6) BULB-TITE. TRI-FOLD. ALUMINUM BODY/MANDREL O.D. FLANGE .720-.765 INCH, GRIP RANGE .042-.375 INCH

WASHERS (ALL POSTS) -

1-1/4" O.D. X $\frac{3}{8}$ " I.D. X $\frac{1}{16}$ " STEEL 1-1/4" O.D. X $\frac{3}{8}$ " I.D. X .080 NYLON

Two different fastening systems are shown for illustration purposes. On any individual sign, either one or the other system shall be used. Actual number of fasteners per sign varies with the sign area, but normally there are two. For a single post installation, all signs greater than 9 sq.ft. require the use of 3 fasteners.

ATTACHMENT OF SIGNS TO POSTS

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matther

≠or State Traffic Engineer

SHEET NO:

DATE 4/1/2020

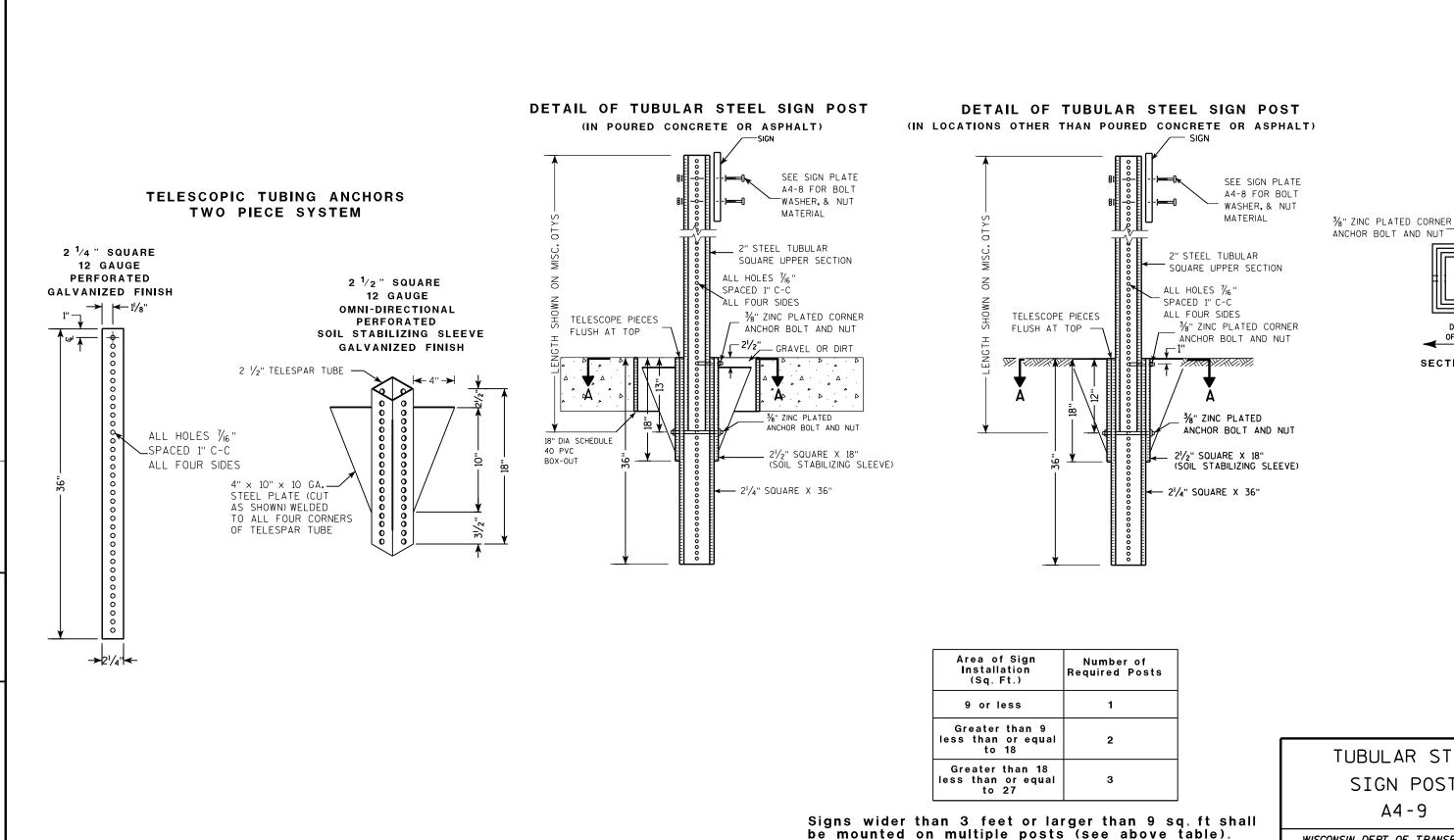
PLATE NO. <u>A4-8.9</u>

PROJECT NO:

PLOT DATE: 01-APRIL-2020

PLOT BY : dotc4c

Ε



TUBULAR STEEL SIGN POST A4-9

WISCONSIN DEPT OF TRANSPORTATION

For State Traffic Engineer DATE 2/05/15 PLATE NO. <u>A4-9.9</u>

SHEET NO:

FILE NAME : C:\CAEFiles\Projects\tr_stdplate\A49.DGN

HWY:

PROJECT NO:

PLOT DATE: 05-FEB-2015 17:09

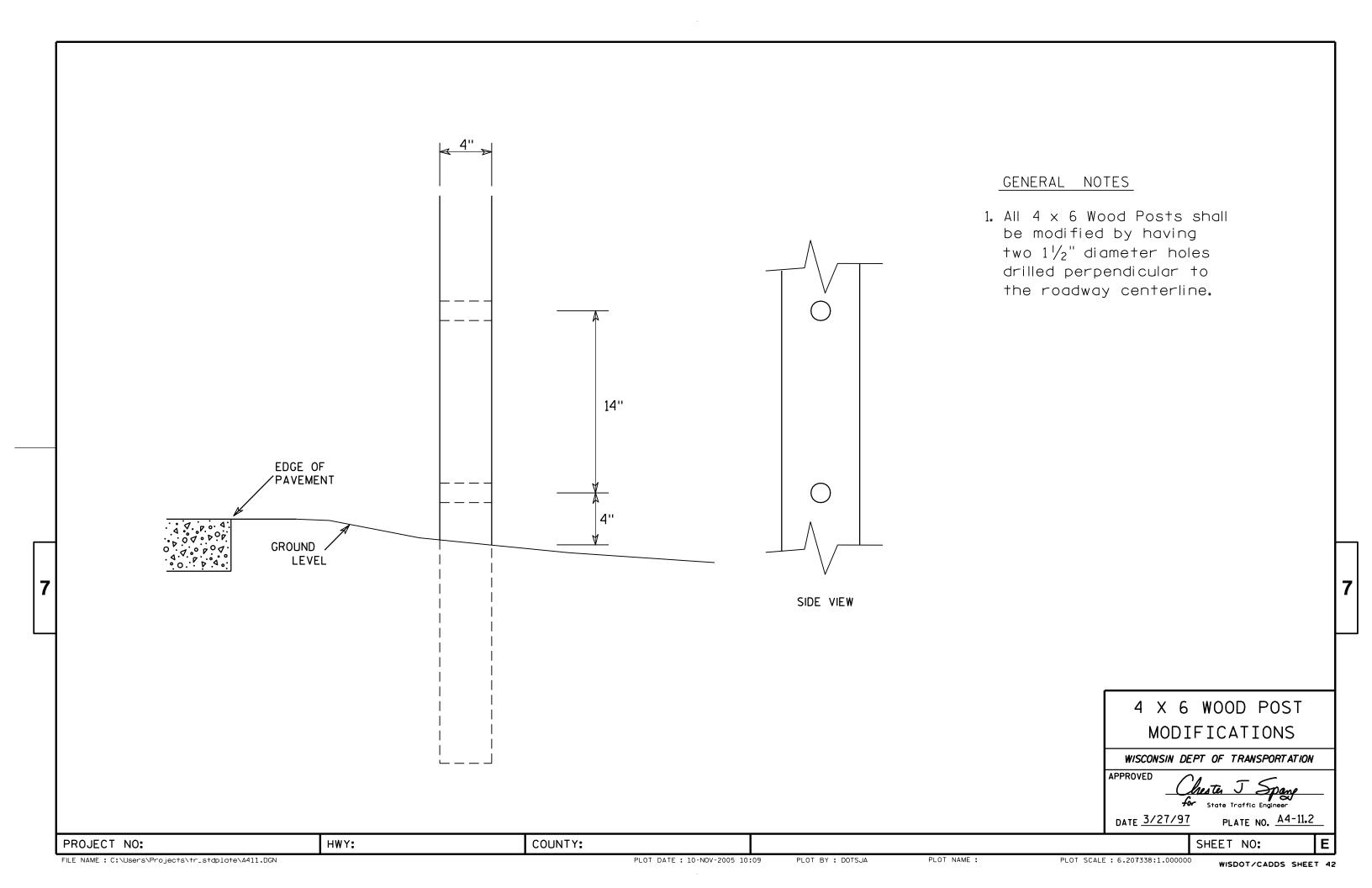
COUNTY:

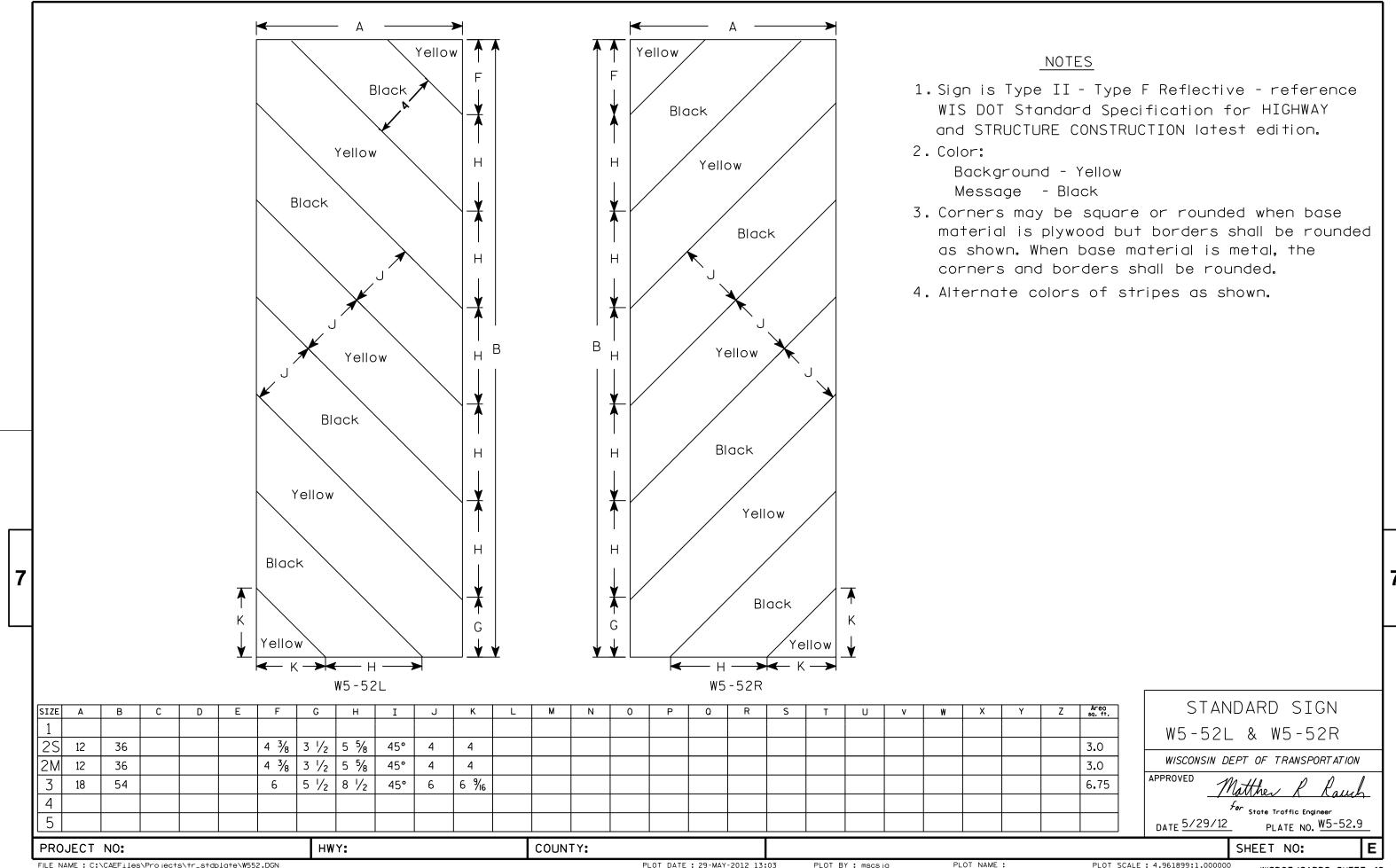
PLOT NAME :

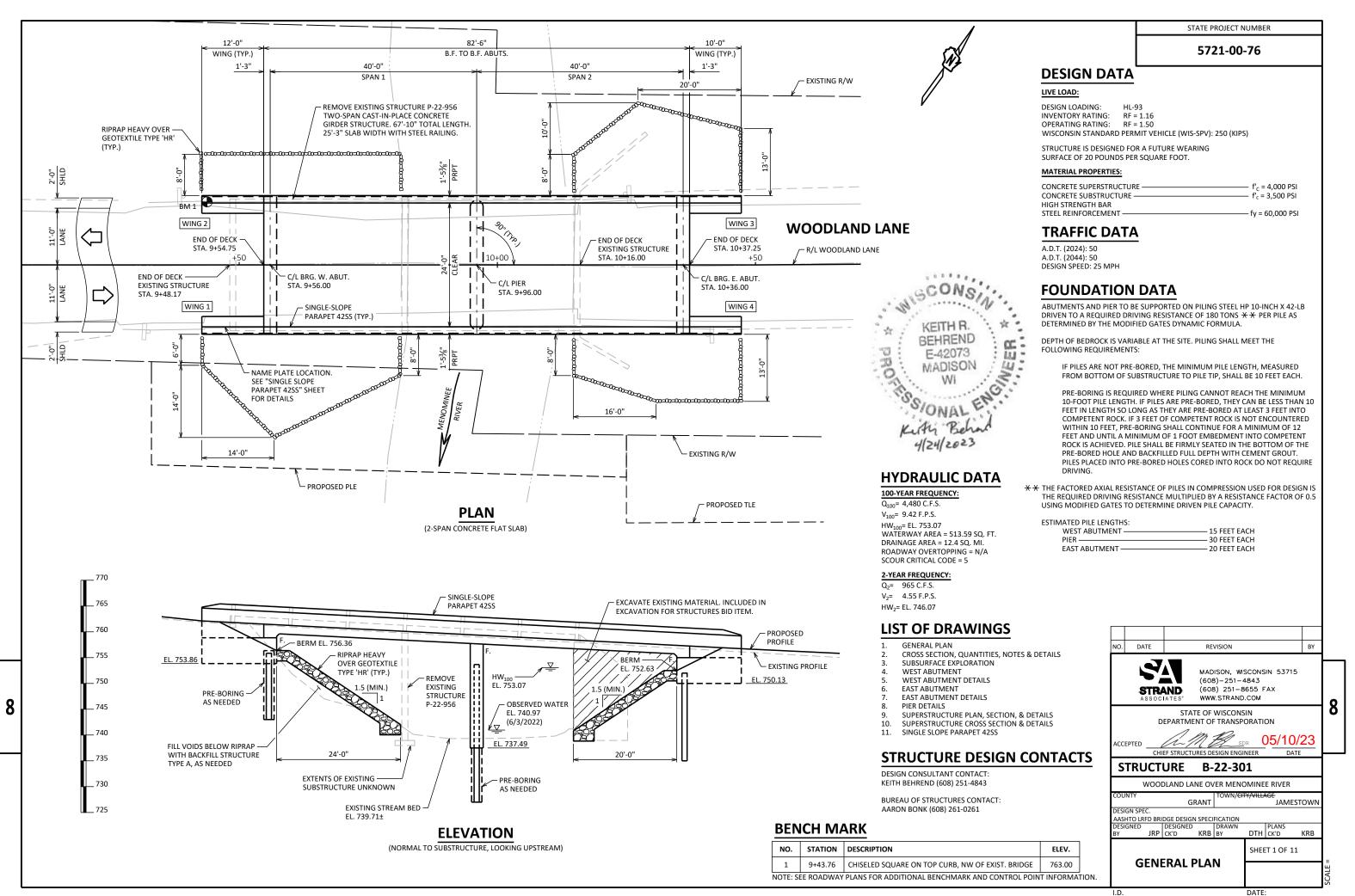
PLOT BY: mscsja

PLOT SCALE: 13.659812:1.000000

SECTION A-A







GENERAL NOTES

DRAWINGS SHALL NOT BE SCALED.

ALL STATIONS AND ELEVATIONS ARE IN FEET.

BAR STEEL REINFORCEMENT SHALL BE EMBEDDED 2" CLEAR UNLESS OTHERWISE SHOWN OR NOTED

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

BAR DIMENSIONS FOR BENDING ARE OUT-TO-OUT OF BARS.

THE UPPER LIMITS OF "EXCAVATION FOR STRUCTURES BRIDGES B-22-301 SHALL BE THE EXISTING GROUND LINE.

THE SLOPE OF THE FILL IN FRONT OF THE ABUTMENT SHALL BE COVERED WITH RIPRAP HEAVY AND GEOTEXTILE TYPE HR TO THE EXTENT SHOWN ON SHEET 1 AND IN THE ABUTMENT DETAILS.

AT THE 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 STRUCTURE TYPE A".

THE BACKFILL QUANTITIES ARE BASED ON THE PAY LIMITS SHOWN ON THE PLANS AND MAY NOT REFLECT ACTUAL PLACED QUANTITIES. "BACKFILL STRUCTURE TYPE A" REQUIRED DIRECTLY BEHIND ABUTMENTS AND ABUTMENT WINGS FOR 3 FEET. BACKFILL PLACED BEYOND PAY LIMITS OR **EXCEEDING PLAN QUANTITIES SHALL BE INCIDENTAL TO EXCAVATION FOR**

EXCAVATION BELOW THE ABUTMENT AND ABUTMENT BEDDING MATERIALS REQUIRES ENGINEER APPROVAL. "GEOTEXTILE TYPE DF SCHEDULE A" SHALL BE SET AT THE BOTTOM OF EXCAVATION AND EXTEND 2'-0" ABOVE BOTTOM

THE EXISTING STRUCTURE P-22-956, A TWO SPAN CONCRETE GIRDER BRIDGE, IS TO BE REMOVED.

BEVEL EXPOSED EDGES OF CONCRETE 3/4" UNLESS OTHERWISE NOTED.

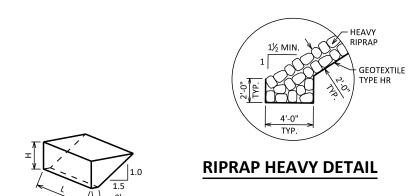
AT PIER, CONCRETE POURED UNDER WATER WILL BE ALLOWED AND SHALL BE DONE IN ACCORDANCE WITH STANDARD SPEC. 502.3.5.3. CONCRETE POURED UNDER WATER SHALL NOT EXCEED 10.0 FEET IN DEPTH, UNLESS

THE EXISTING STREAMBED SHALL BE USED AS THE UPPER LIMITS OF EXCAVATION AT THE PIER

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

ROADWAY RRIDGE SUPERSTRUCTURE PAVEMENT **ABUTMENT** BACKFACE - PAY LIMITS OF BACKFILL 1 ACKFILL STRUCTURE TYPE A 'GEOTEXTILE TYPE DF SCHEDULE A" LIMITS. EXTEND 2'-0" ABOVE BOTTOM OF ABUTMENT FOR THE ENTIRE ABUTMENT BODY LENGTH

TYPICAL SECTION THRU ABUTMENT



OUT-TO-OUT DECK **CROSS SECTION THRU SUPERSTRUCTURE**

26'-6"

26'-103/4" OUT-TO-OUT PARAPETS

12'-0"

C/L WOODLAND LANE

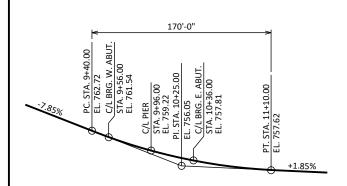
12'-0"

CROWN POINT AND -

PROFILE GRADE LINE

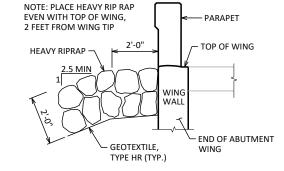
POINT REFERRED TO ON

(LOOKING UPSTATION)



PROFILE GRADE LINE

1'-5¾"



TYPICAL FILL SECTION AT WING TIPS

1'-53/8"

SINGLE-SLOPE

PARAPET 42SS

(TYP)

□-

ABUTMENT BACKFILL DIAGRAM FOR

WINGS PARALLEL TO ROADWAY

- = OUT TO OUT OF ABUTMENT BODY INCLUDING WINGS (FT)
- = AVERAGE ABUTMENT FILL HEIGHT (FT) = EXPANSION FACTOR (1.20 FOR CY BID ITEMS AND
- 1.00 FOR TON BID ITEMS)
- = (L)(3.0')(H) + (L)(0.5)(1.5H)(H)
- $= V_{CF}(EF)/27$ $V_{TON} = V_{CY}(2.0)$

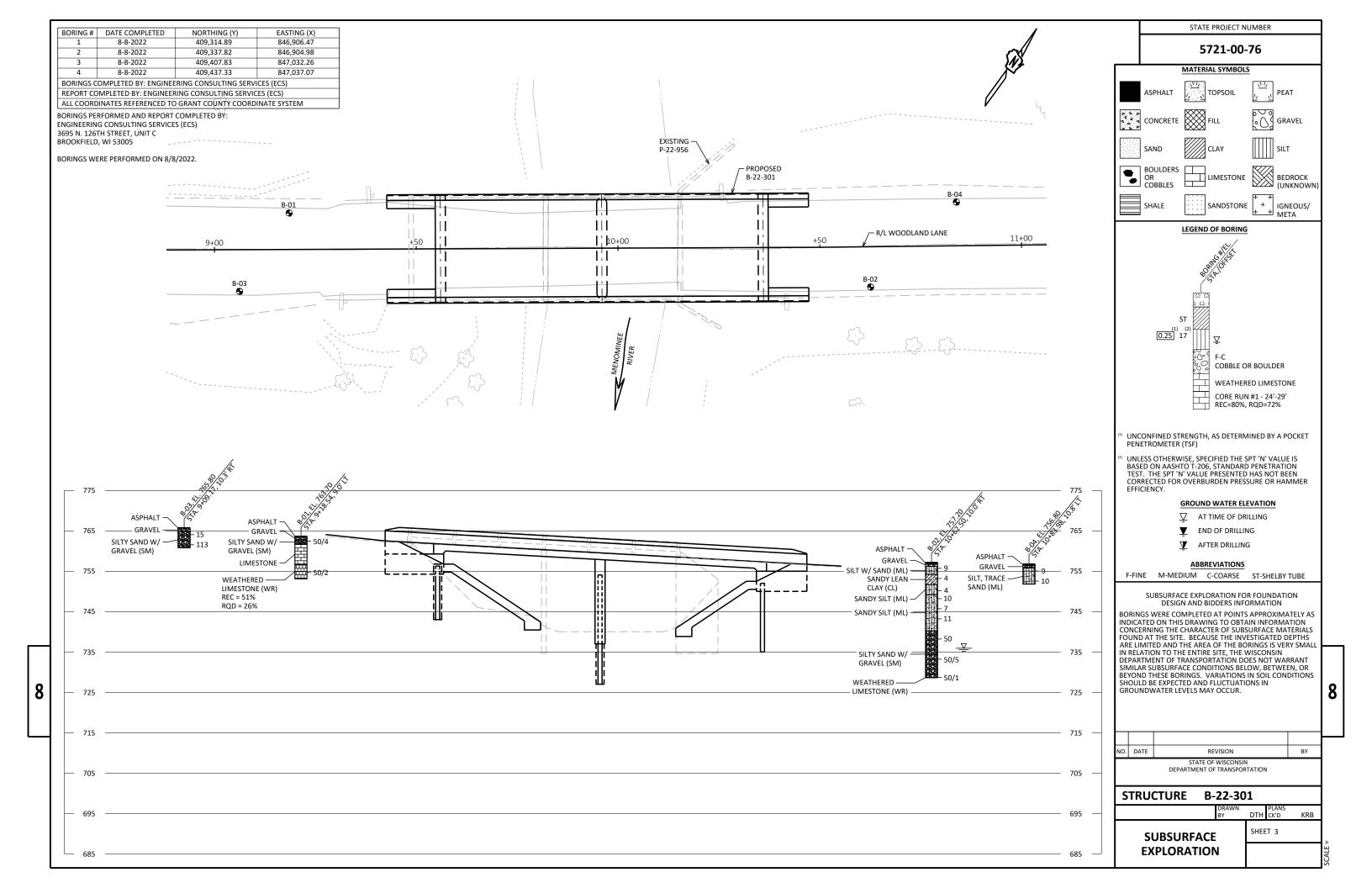
LEGEND

- ◆ ¾" V-GROOVE REQ'D. EXTEND TO 6" FROM F.F. OF ABUTMENT DIAPHRAGMS.
- PROTECTIVE SURFACE TREATMENT SHALL BE APPLIED TO THE TOP OF DECK.
- ▲ BACKFILL PAY LIMITS. BACKFILL BEYOND BACKFILL PAY LIMITS SHALL BE INCIDENTAL TO EXCAVATION FOR STRUCTURES. LIMITS OF EXCAVATION SHALL BE DETERMINED BY THE CONTRACTOR.
- PIPE UNDERDRAIN WRAPPED 6-INCH. SLOPE 0.5% MIN. TO SUITABLE DRAINAGE. ATTACH RODENT SHIELD AT ENDS OF PIPE UNDERDRAIN. SEE DETAIL ON "EAST ABUTMENT" SHEET.
- ☐ PIGMENTED SURFACE SEALER SHALL BE APPLIED TO THE INSIDE, TOP AND

							_	
							ŀ	
NO.	DATE	DATE REVISION BY						
STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION								
STRUCTURE B-22-301								
			DRAWN BY	DTH	PLANS CK'D	KRB]	
CROSS SECTION, SHEET 2]		
		UANTITIES, TES & DETAI					71473	

TOTAL ESTIMATED QUANTITIES

BID NUMBER	BID ITEM	UNIT	W. ABUT.	PIER	E. ABUT.	SUPER.	TOTAL
203.0250	REMOVING STRUCTURE OVER WATERWAY REMOVE DEBRIS P-22-956	EACH					1
206.1001	EXCAVATION FOR STRUCTURES BRIDGES B-22-301	EACH					1
210.1500	BACKFILL STRUCTURE TYPE A	TON	90		90		180
502.0100	CONCRETE MASONRY BRIDGES	CY	33.1	45.0	29.0	161.9	269
502.3200	PROTECTIVE SURFACE TREATMENT	SY				220	220
502.3210	PIGMENTED SURFACE SEALER	SY	12		10	81	103
505.0400	BAR STEEL REINFORCEMENT HS STRUCTURES	LB	2,350	2,260	2,240		6850
505.0600	BAR STEEL REINFORCEMENT HS COATED STRUCTURES	LB	1,580	50	1,250	31,770	34650
516.0500	RUBBERIZED MEMBRANE WATERPROOFING	SY	9		8		17
550.0020	PRE-BORING ROCK OR CONSOLIDATED MATERIALS	LF	40	80			120
550.1100	PILING STEEL HP 10-INCH X 42 LB	LF	60	240	80		380
606.0300	RIPRAP HEAVY	CY	142		136		278
612.0406	PIPE UNDERDRAIN WRAPPED 6-INCH	LF	95		87		182
645.0111	GEOTEXTILE TYPE DF SCHEDULE A	SY	19		19		38
645.0120	GEOTEXTILE TYPE HR	SY	241		229		470
	NON-BID ITEMS						
	NAME PLATE	EACH					1
	FILLER	SIZE					1/2" & 3/4"





5721-00-76

NOTES

SEE SHEET 6 FOR PILES SPLICE DETAILS.

SEE SHEET 5 FOR REINFORCING DETAILS.

SUPPORT WEST ABUTMENT ON PILING STEEL HP 10-INCH x 42 LB DRIVEN TO A REQUIRED DRIVING RESISTANCE OF 180 TONS PER PILE AS DETERMINED BY THE MODIFIED GATES DYNAMIC

SEE SHEET 2 FOR TYPICAL FILL SECTION AT WING TIPS.

PRE-BORING IS REQUIRED WHERE PILING CANNOT REACH THE MINIMUM 10-FOOT PILE LENGTH. IF PILES ARE PRE-BORED, THEY CAN BE LESS THAN 10 FEET IN LENGTH SO LONG AS THEY ARE PRE-BORED AT LEAST 3 FEET INTO COMPETENT ROCK, IF 3 FEET OF COMPETENT ROCK IS NOT ENCOUNTERED WITHIN 10 FEET, PRE-BORING SHALL CONTINUE FOR A MINIMUM OF 12 FEET AND UNTIL A MINIMUM OF 1 FOOT EMBEDMENT INTO COMPETENT ROCK IS ACHIEVED. PILE SHALL BE FIRMLY SEATED IN THE BOTTOM OF THE PRE-BORED HOLE AND BACKFILLED FULL DEPTH WITH CEMENT GROUT. PILES PLACED INTO PRE-BORED HOLES CORED INTO ROCK DO NOT REQUIRE DRIVING.

LEGEND

- ▲ CONST. JOINT: KEYWAY FORMED BY A BEVELED 2 x 6.
- △ PIPE UNDERDRAIN WRAPPED (6-INCH). SLOPE 0.5% MIN. TO SUITABLE DRAINAGE. HIGH POINT EL. 753.99. RODENT SHIELD REQUIRED AT ENDS. SEE DETAIL ON THIS SHEET.
- ½" FILLER TO EXTEND FROM ABUTMENT SEAT TO TOP OF CONCRETE PARAPET (INCLUDED IN WING LENGTH). SEAL ALL EXPOSED HORIZ. & VERT. SURFACES OF ½" FILLER WITH NON-STAINING GRAY NON-BITUMINOUS JOINT SEALER. (1" DEEP AND HOLD 1/3" BELOW SURFACE OF CONCRETE). EXTEND SEALER 3" BELOW GUTTER LINE AT INSIDE FACE.
- 18" (RMW) RUBBERIZED MEMBRANE WATERPROOFING SEAL ALL HORIZ. & VERT. JOINTS AT BACKFACE.
- BARS MAY BE PLACED AFTER CONCRETE IS POURED BUT BEFORE NITIAL SET HAS TAKEN PLACE. (EMBED 1'-0" INTO CONC.)
- ★ THESE ELEVATIONS GIVEN AT C/L BRG. ABUT.
- * THESE ELEVATIONS GIVEN AT B.F. ABUT.

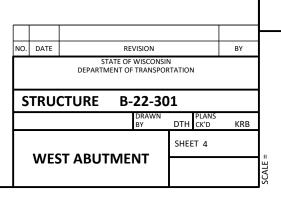
NOMINAL ועעעעעעעו SECTION MAX.

RODENT SHIELD DETAIL

imes imes DIMENSIONS ARE APPROXIMATE. THE GRATE IS SIZED TO FIT INTO A PIPE COUPLING. ORIENT SO SLOTS ARE VERTICAL.

THE RODENT SHIELD, PIPE COUPLING AND SCREWS SHALL BE CONSIDERED INCIDENTAL TO THE BID ITEM "PIPE UNDERDRAING WRAPPED 6-INCH".

THE RODENT SHIELD SHALL BE A PVC GRATE SIMILAR TO THIS DETAIL. THE GRATE IS COMMERCIALLY AVAILABLE AS A FLOOR STRAINER. A PIPE COUPLING IS REQUIRED FOR THE ATTACHMENT OF THIS SHIELD TO THE EXPOSED END OF THE PIPE UNDERDRAIN. THE SHIELD SHALL BE FASTENED TO THE PIPE COUPLING WITH TWO OR MORE NO. 10 X 1-INCH STAINLESS STEEL SHEET METAL SCREWS.



1'-3"

1'-0"

(TYP.)

EL. 761.38 * *

L. 758.86 X

EL. 753.86

1'-3"

2'-0"

WING 1

R/L WOODLAND LANE

HIGH POINT OF PIPE

UNDERDRAIN INVERT EL. 753.99

• • • • • • • • • • • • • •

A506 @ 1'-0'

- F.F. ABUT.

13'-3"

A805 (B.F.)

12 SPA. @ 9" = 9'-0"

A501

WING 1

(

2'-6"

1'-0"

- C/L BRG.

AND PILES

C/L BRG. W. ABUT.

STA. 9+56.00

∽ A506 @ 1'-0"

MAX. (TYP.)

24 SPA. @ 1'-0" = 24'-0"

A506

26'-6"

PLAN

6 SPA. @ 1'-0" = 6'-0"

A501

26'-6' **ELEVATION** (LOOKING WEST)

3 SPA. @ 7'-2" = 21'-6"

PILE SPACING

26'-6"

PILE PLAN

2'-0"

WING 2

3/4" x 4" PERFORMED -

JOINT FILLER. LENGTH

A604 (F.F. TOP, BOT)

12 SPA. @ 9" = 9'-0"

A501

WING 2

A403 (TYP.)

OF ABUT.

13'-3"

B.F. ABUT.

C/L BRG. W. ABUT

- R/L WOODLAND LANE

1'-0"

- R/L WOODLAND LANE

∠ PILING STEEL

HP 10-INCH x 42-LB (TYP.)

2'-6"

— EL. 759.12 X

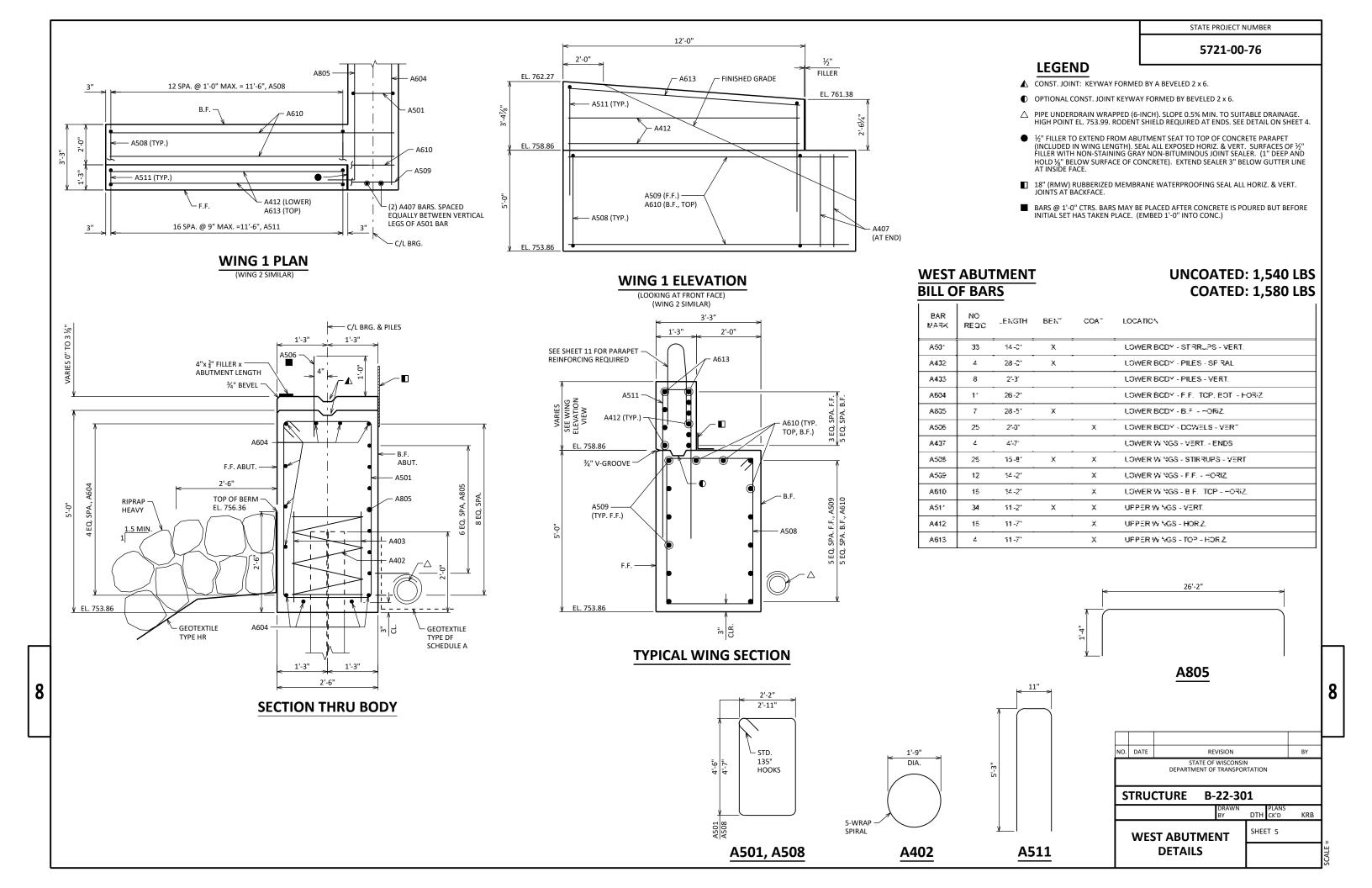
STA. 9+56.00

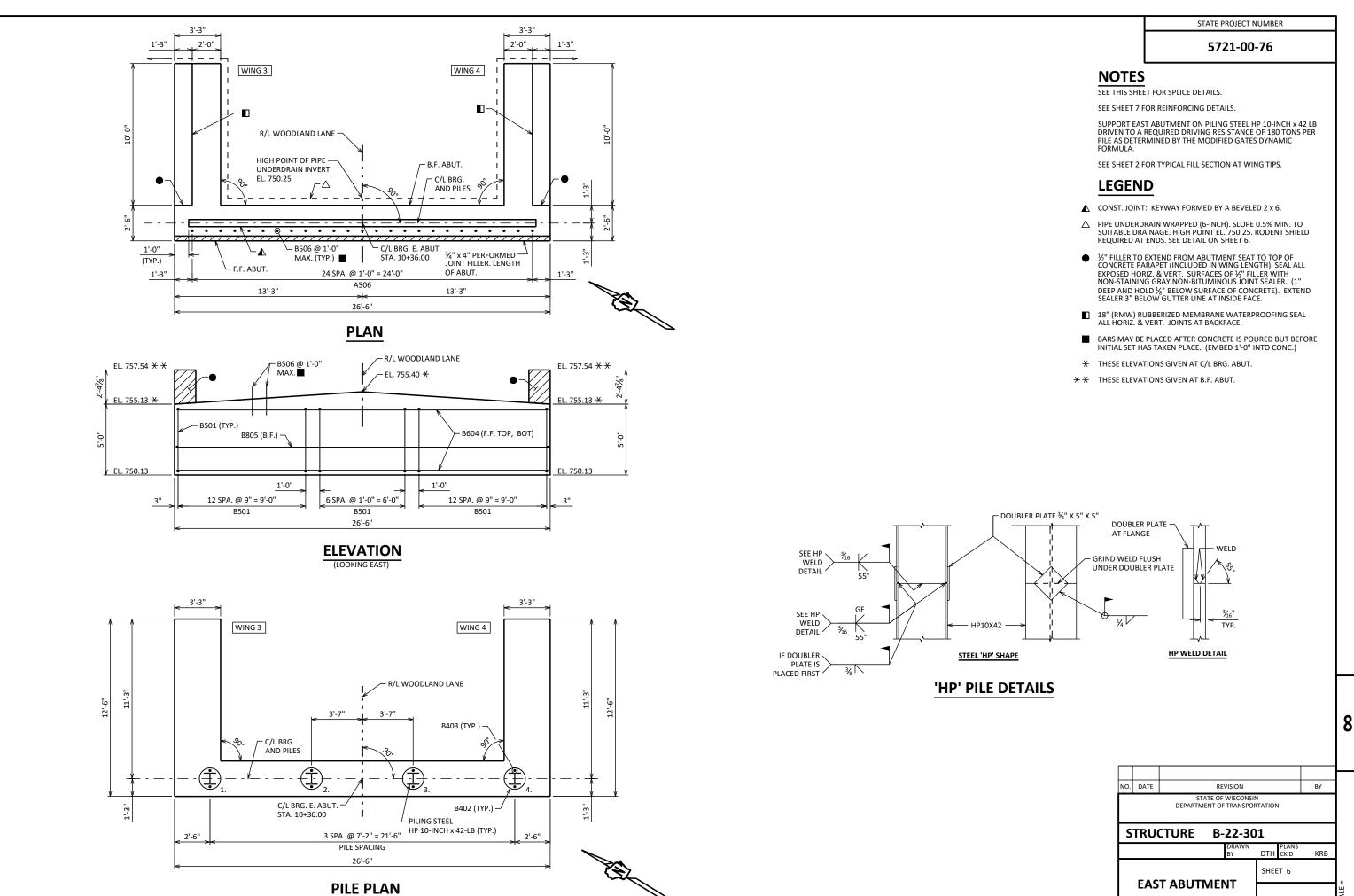
- C/I BRG AND PILES 1'-3"

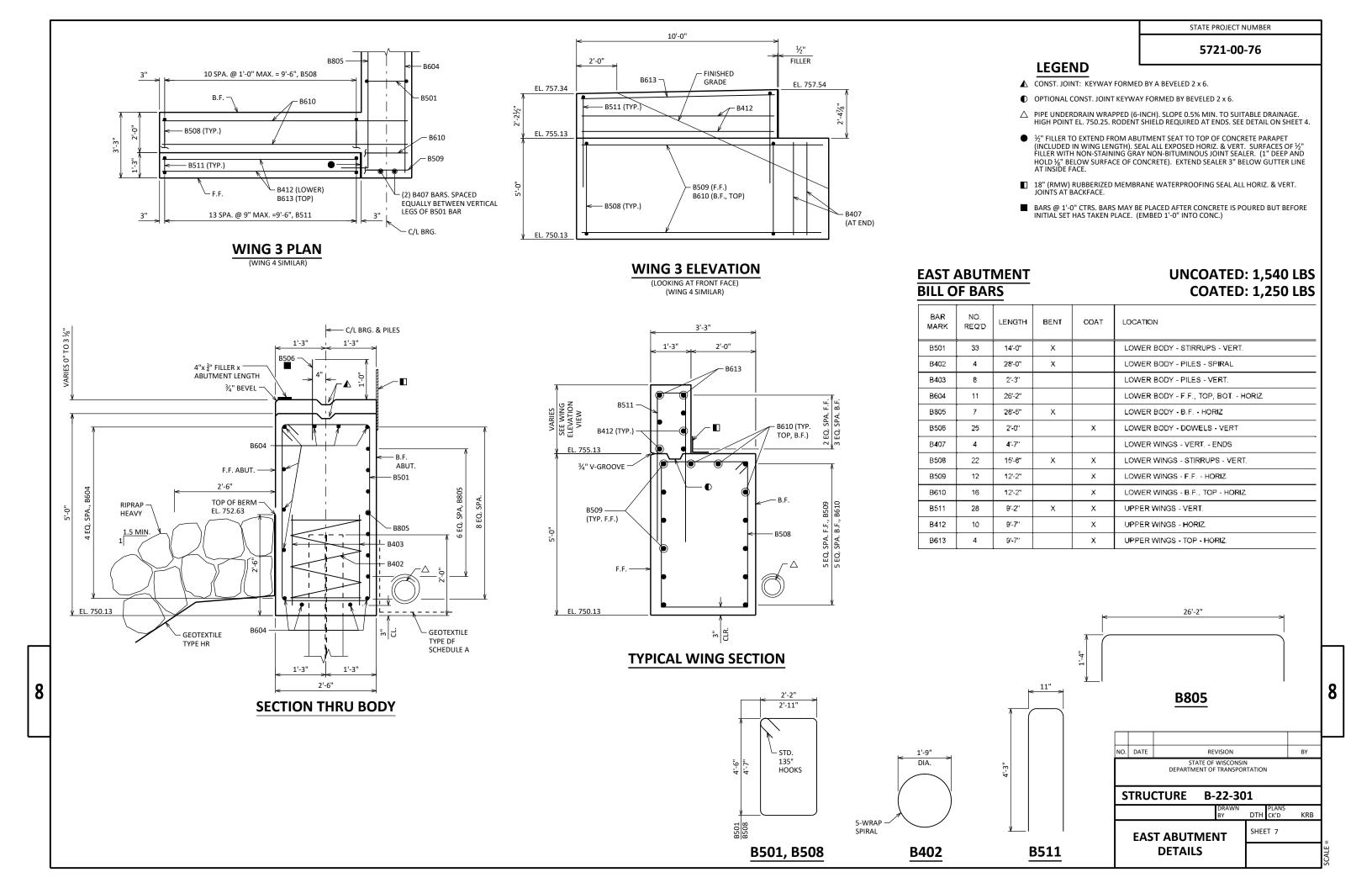
1'-3"

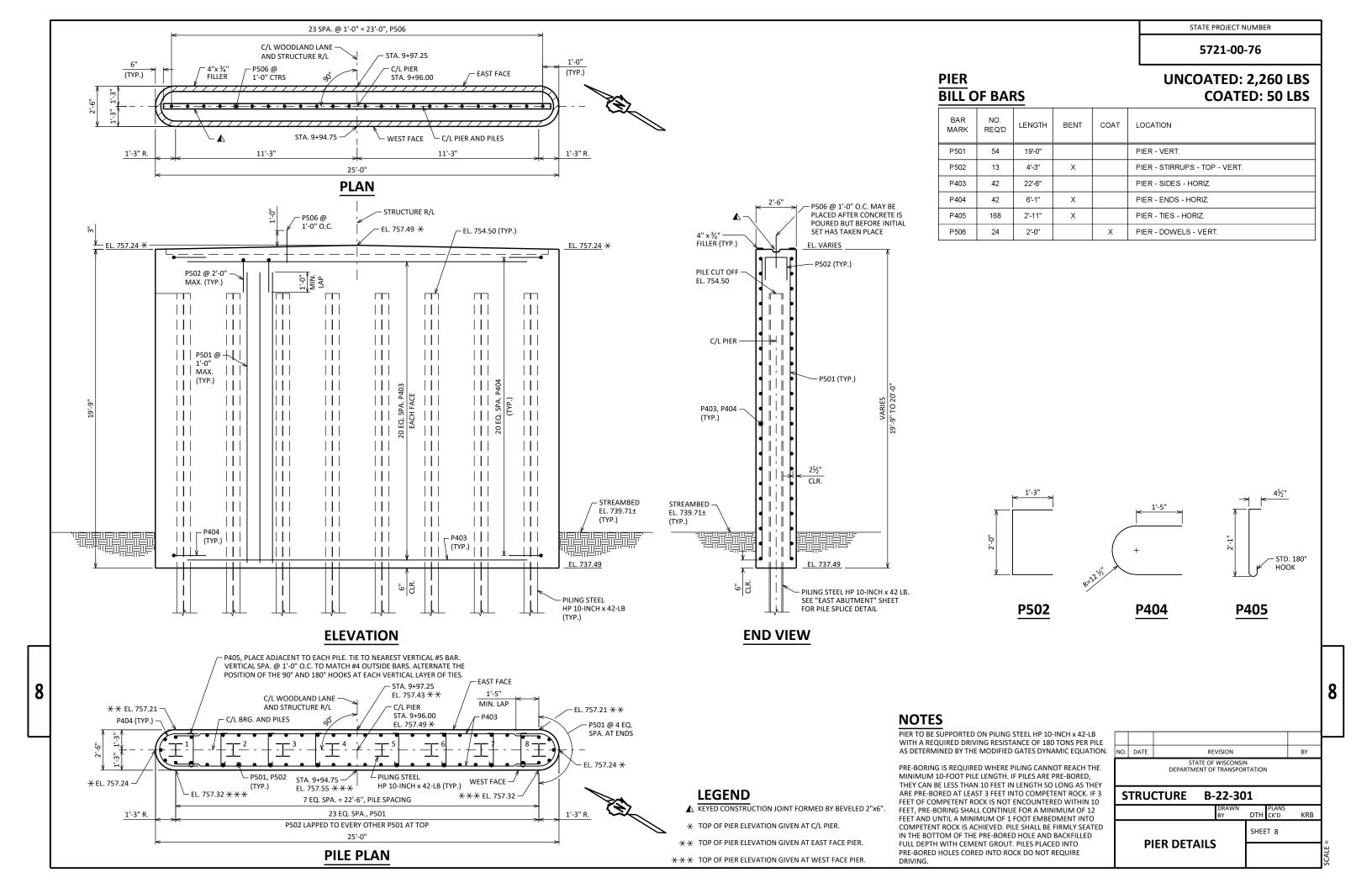
EL. 761.38 * *

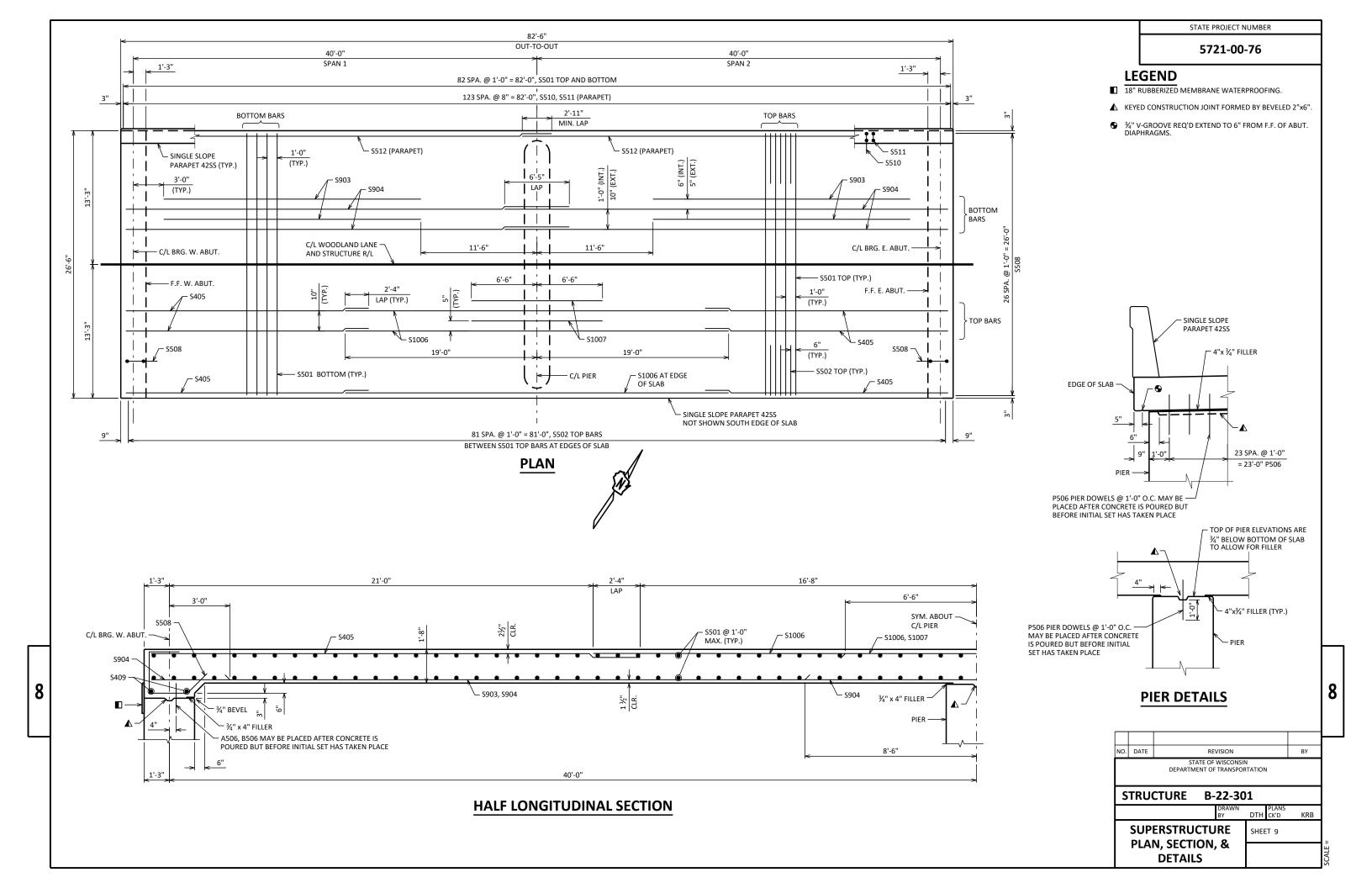
EL. 753.86

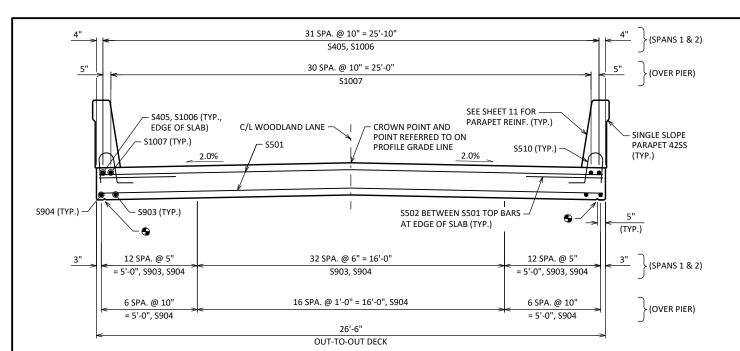












SUPERSTRUCTURE BILL OF BARS

BAR MARK	YC REQD	LENGTH	BENT	COAT	LOCATION
\$501	168	26'-2'		х	SLAB - TRANSVERSE - TCP & BCT
\$502	164	5'-0'		х	SLAB - TRANSVERSE - TCP
\$903	58	25'-6'		х	SLAB - LONG, - BOTTOM
S904	58	44'-4'		х	SLAB - LONG, - BOTTOM
S405	64	24'-5'		Х	SLAB - LONG, - TCP
\$1006	32	38'-0"		Х	SLAB - LONG, - TCP
\$1007	3-	13'-0"		Х	SLAB - LONG, - TCP
S508	54	745	х	Х	ABUT, DAPHRAGM - VERT.
S409	2	28'-2'		х	ABUT, DIAPHRAGM - HORIZ
S510	248	4'-5'	Х	х	PARAPET - VERT.
S511	248	8'-8'	х	х	PARAPET - VERT.
S512	32	42'-8"		х	PARAPET - HOR Z

STATE PROJECT NUMBER

5721-00-76

NOTES

TOP TRANSVERSE BARS IN SLAB SHALL BE SUPPORTED BY INDIVIDUAL BAR CHAIRS AT APPROXIMATELY 3'-0" CENTERS EACH WAY, BOTTOM LONGITUDINAL BARS SHALL BE SUPPORTED BY CONTINUOUS BAR CHAIRS AT APPROXIMATELY 4'-0" CENTERS.

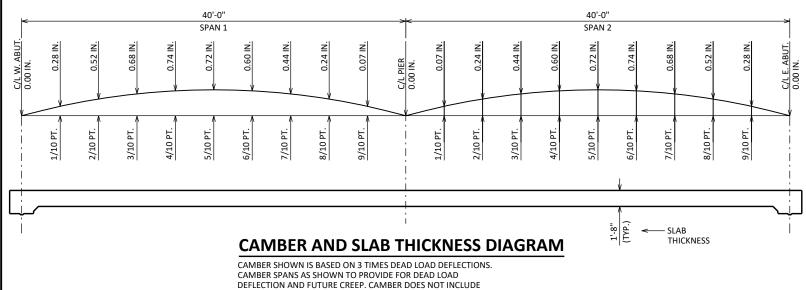
ALL SLAB THICKNESS DIMENSIONS ARE MINIMUM. ANY TOLERANCES NECESSARY TO CORRECT CONSTRUCTION DISCREPANCIES ARE TO BE PLUS (+).

LEGEND

◆ ¾" V-GROOVE REQ'D EXTEND TO 6" FROM F.F. OF ABUT.

CROSS SECTION THRU SUPERSTRUCTURE

(LOOKING EAST)



SURVEY TOP OF SLAB ELEVATIONS

	W. ABUT	5/10 PT.	PIER	5/10 PT.	E. ABUT.
NORTH GUTTER					
CROWN OR R/L					
SOUTH GUTTER					

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

COATED: 31,770 LBS

ALLOWANCE FOR FORM SETTLEMENT.

PARAPETS, PLACED ON TOP OF THE SLAB SHALL BE POURED AFTER

FALSEWORK HAS BEEN RELEASED.

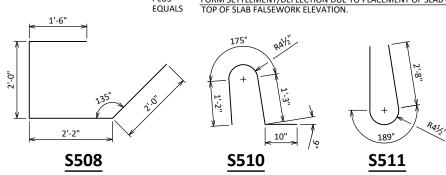
TO DETERMINE FALSEWORK ELEVATION AT EDGE OF SLAB, CROWN OR REFERENCE LINE FOLLOW THIS PROCEDURE:

TOP OF SLAB ELEVATION AT FINAL GRADE

SLAB THICKNESS

PLUS

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



TOP OF DECK ELEVATIONS

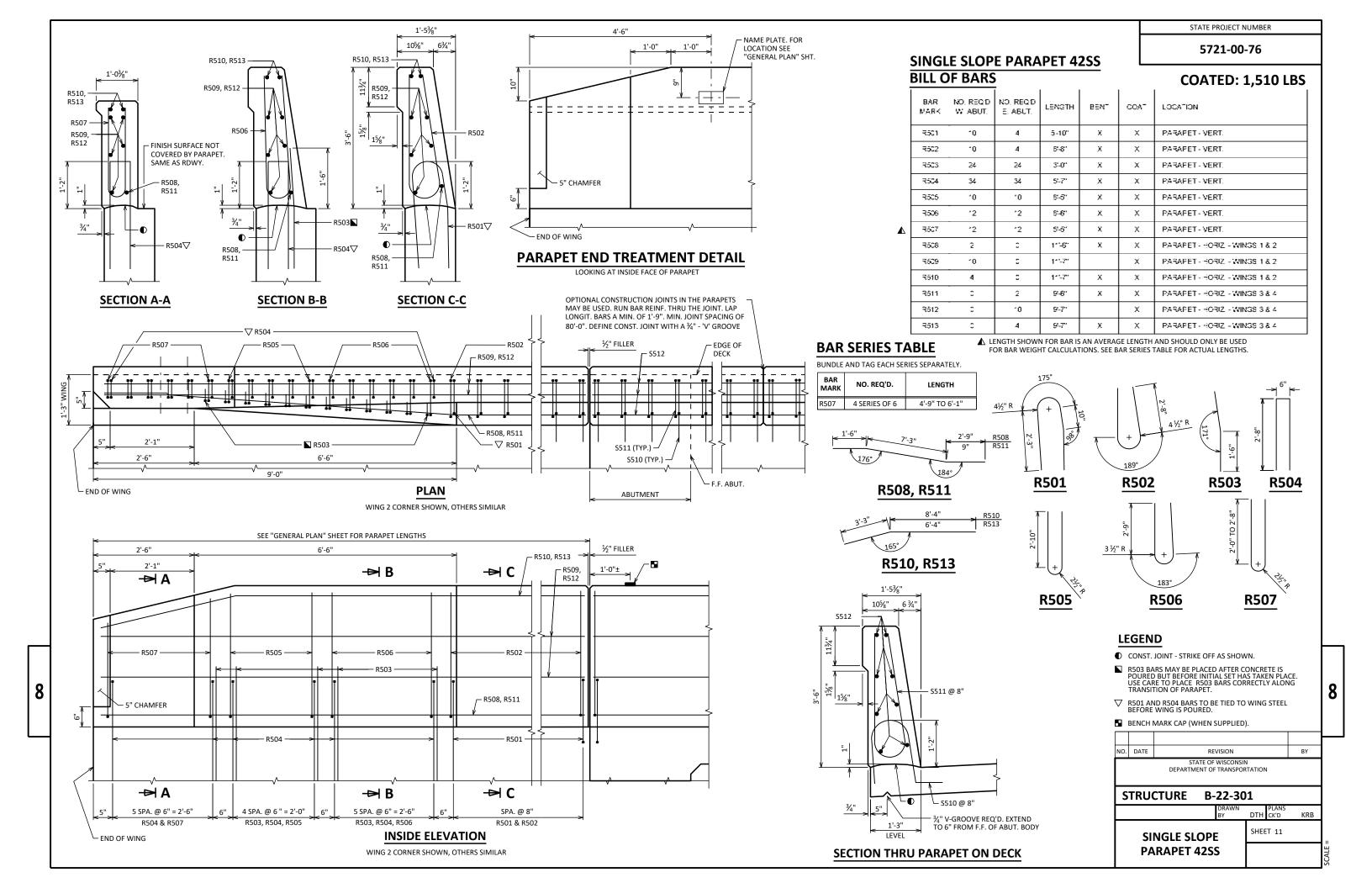
	NORTHEDG	E OF DECK	C/L BR	RIDGE	SOUTH EDGE OF DECK 13.25' RT *		
LOCATION	13.25	5' LT Ӿ	-				
	STATION	ELEV.	STATION	ELEV.	STATION	ELEV.	
C/L BRG, W. ABUT	9+56.00	761.30	9+56.00	761.54	9+56.00	761 30	
3.1L POINT	9+60 00	761 32	9+60.00	761.26	9+60.00	761 02	
3 2L PONT	9+64 00	760 76	9+64.00	761.00	9+64.00	760 76	
3.3L PONT	9+68.00	760.51	9+68.00	760.75	9+68.00	760 51	
3.4L PO NT	9+72.00	760 26	9+72.00	760.50	9+72.00	760 26	
0.5L POINT	9+76.00	760 32	9+76.00	760.26	9+76.00	760 02	
3 SL PONT	9+80 00	759 80	9+80.00	760.04	9+80.00	759 83	
3.7L PONT	9+84.00	759 58	9+84.00	759.82	9+84.00	759 58	
3.8L PONT	9+88.00	759.37	9+88.00	759.61	9+88.00	75937	
39L PONT	9+92 00	759 17	9+92.00	759.41	9+92.00	759 17	
C/L PIER	9+96.00	758 98	9+96.00	759.22	9+96.00	758.98	
0.1L POINT	10+90.00	758.80	10+00.00	759.04	13+00 00	758 80	
32L PONT	10-34.00	758.62	10+04.00	758.86	13+04 03	758 62	
0.3L PONT	10+38.00	758 46	10+08.00	758.70	13+08 00	758 46	
3.4L PONT	10+12.00	758 31	10+12.00	758.55	13+12 00	758 31	
3.5L PONT	10+16.00	758.16	10+16.00	758.40	13+16 00	758 16	
3.6L POINT	10+20.00	758.03	10+20.00	758.27	10+20.00	758 03	
3.7L POINT	10+24.00	757 90	10+24.00	758.14	13+24 03	757 90	
3 8L PONT	10-28.00	757 78	10+28.00	758.02	13+28 00	757 78	
39L PONT	10+32.00	757 67	10+32.00	757.91	10+32 00	757 67	
C/L 8RG E. ABUT.	10+36.00	757.57	10+36.00	757.81	13+36.00	757 57	

ELEVATIONS SHOWN ARE FINISHED GRADE ELEVATIONS.

★ DECK ELEVATIONS AT THE INSIDE FACE OF PARAPET (12.00' LT & RT) ARE THE SAME AS AT OUTSIDE EDGE OF DECK (DECK LEVEL UNDER PARAPET, SEE "SINGLE SLOPE PARAPET 42SS" SHEET FOR DETAILS).

							_			
10.	DATE	RE	BY							
	STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION									
STRUCTURE B-22-301										
		KRB								
		ERSTRUCTU	SHEE	T 10		l				
	CRO	SS SECTION DETAILS				SCALE =				

8



WOODLAND LANE

		<u>EXCAVATION</u>			<u>EMBANKMENT</u>					EVCESS /	
CATEGORY	REFERENCE LINE STATION	DISTANCE (FT)	END AREA CUT (SF)	VOLUME CUT (CY)	CUMM VOLUME CUT (CY)	END AREA FILL (SF)	VOLUME FILL (CY)	FILL FACTOR	EXPANDED VOLUME FILL (CY)	CUMM VOLUME FILL (CY)	EXCESS/ (SHORTAGE) CUMM VOLUME (CY)
0010	9+00		39			0					
		25		35	35		0	1.3	1	1	34
	9+25	2.5	36	2.2	67	1		4.0			
	0.50	25	2.2	32	67		0	1.3	1	1	65
	9+50	_	32			0					
		5		6	73		0	1.3	0	1	71
	9+55		32			0					
_	10+37		32			0					
		13		17	89		14	1.3	18	19	70
	10+50		37			58					
		50		71	161		69	1.3	90	109	52
	11+00		39			17					
		15		20	181		5	1.3	6	115	66
=	11+15		34			1					
	TOTAL				181		29			115	66

COUNTY: GRANT PROJECT NO: 5721-00-76 HWY: LOC STR Ε CROSS SECTIONS: EARTHWORK SHEET

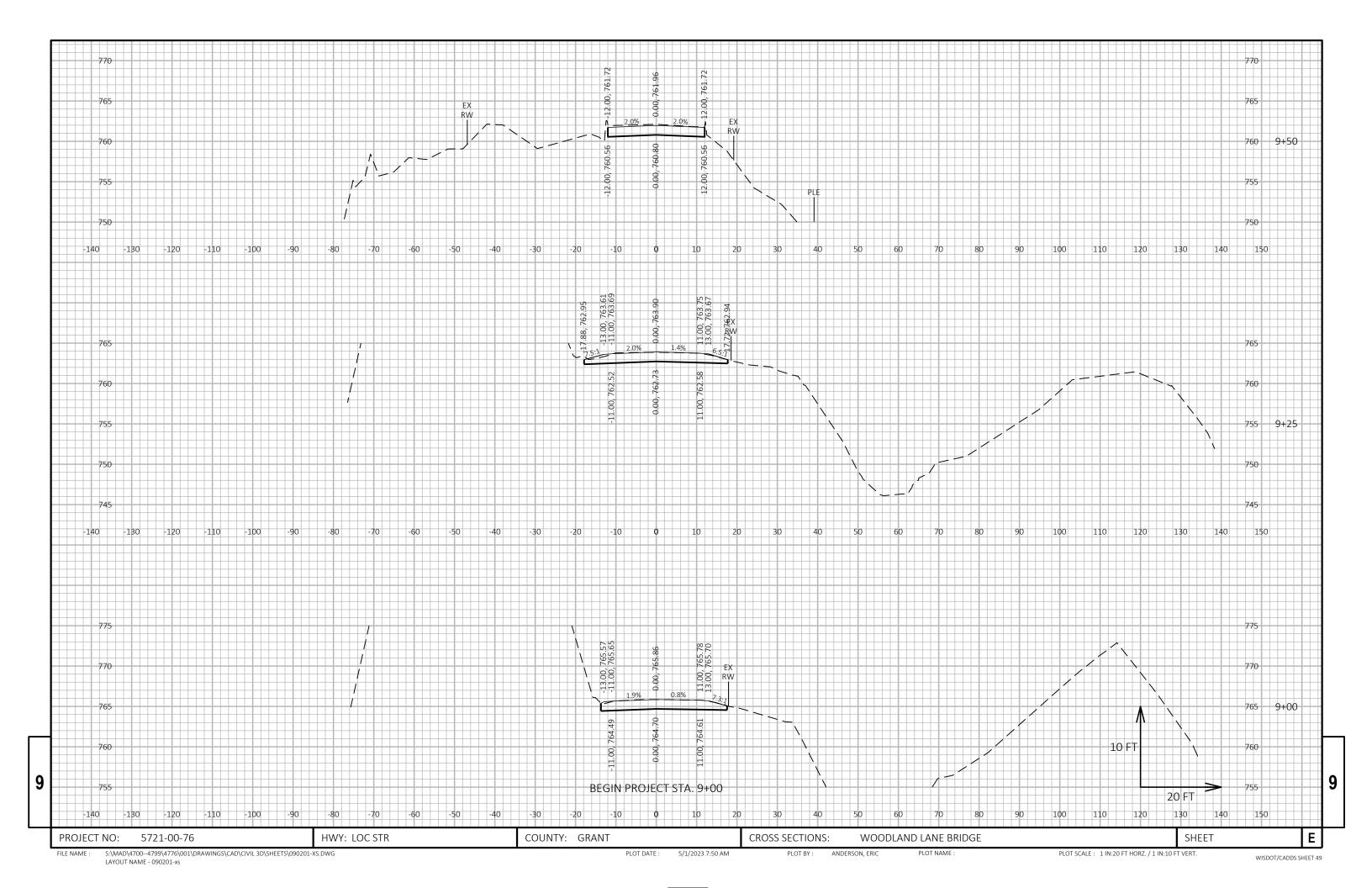
FILE NAME : S:\MAD\4700--4799\4776\001\DRAWINGS\CAD\CIVIL 3D\SHEETS\090101-EW.DWG LAYOUT NAME - 090101_ew

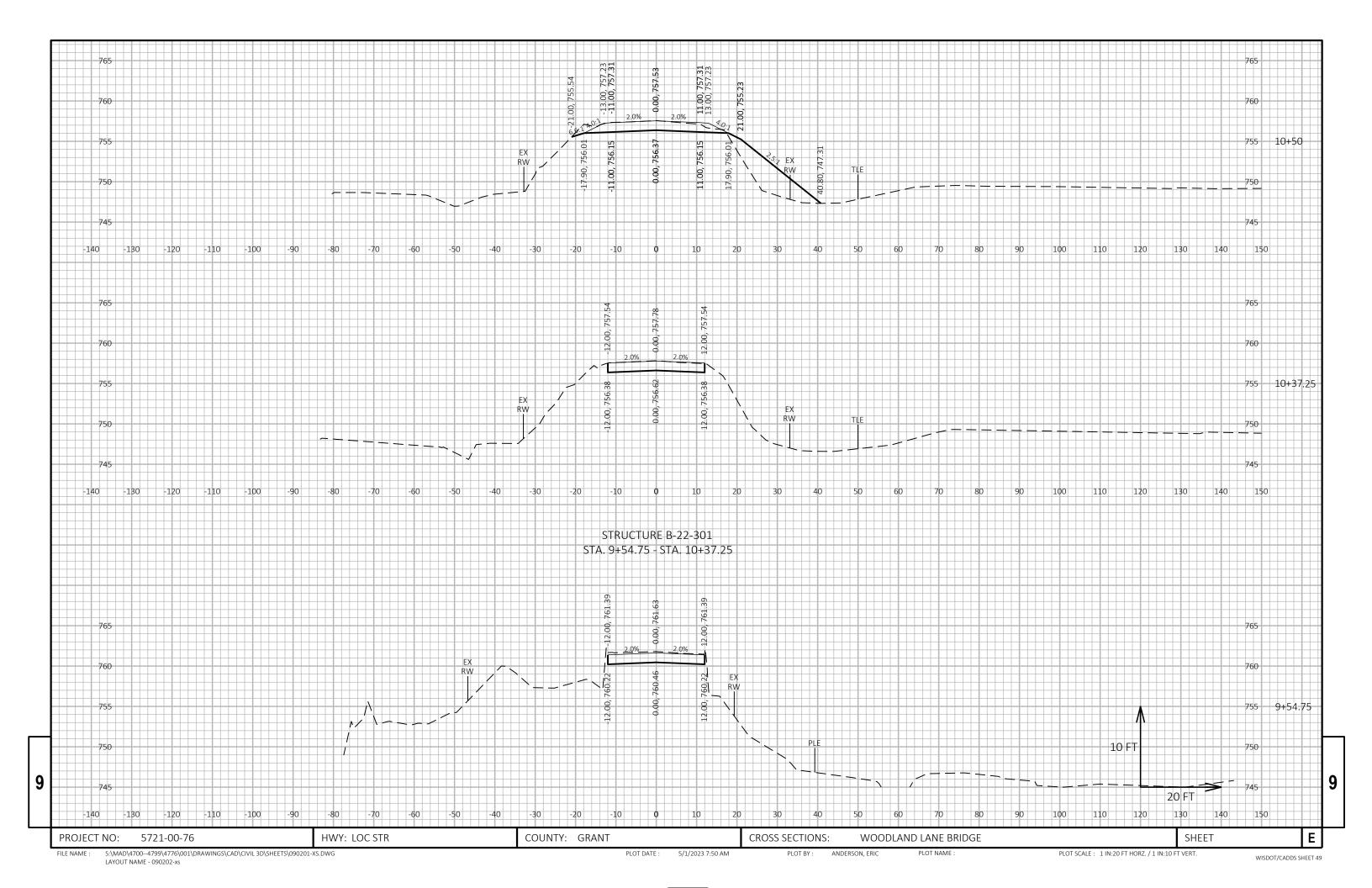
PLOT DATE : 5/1/2023 7:49 AM

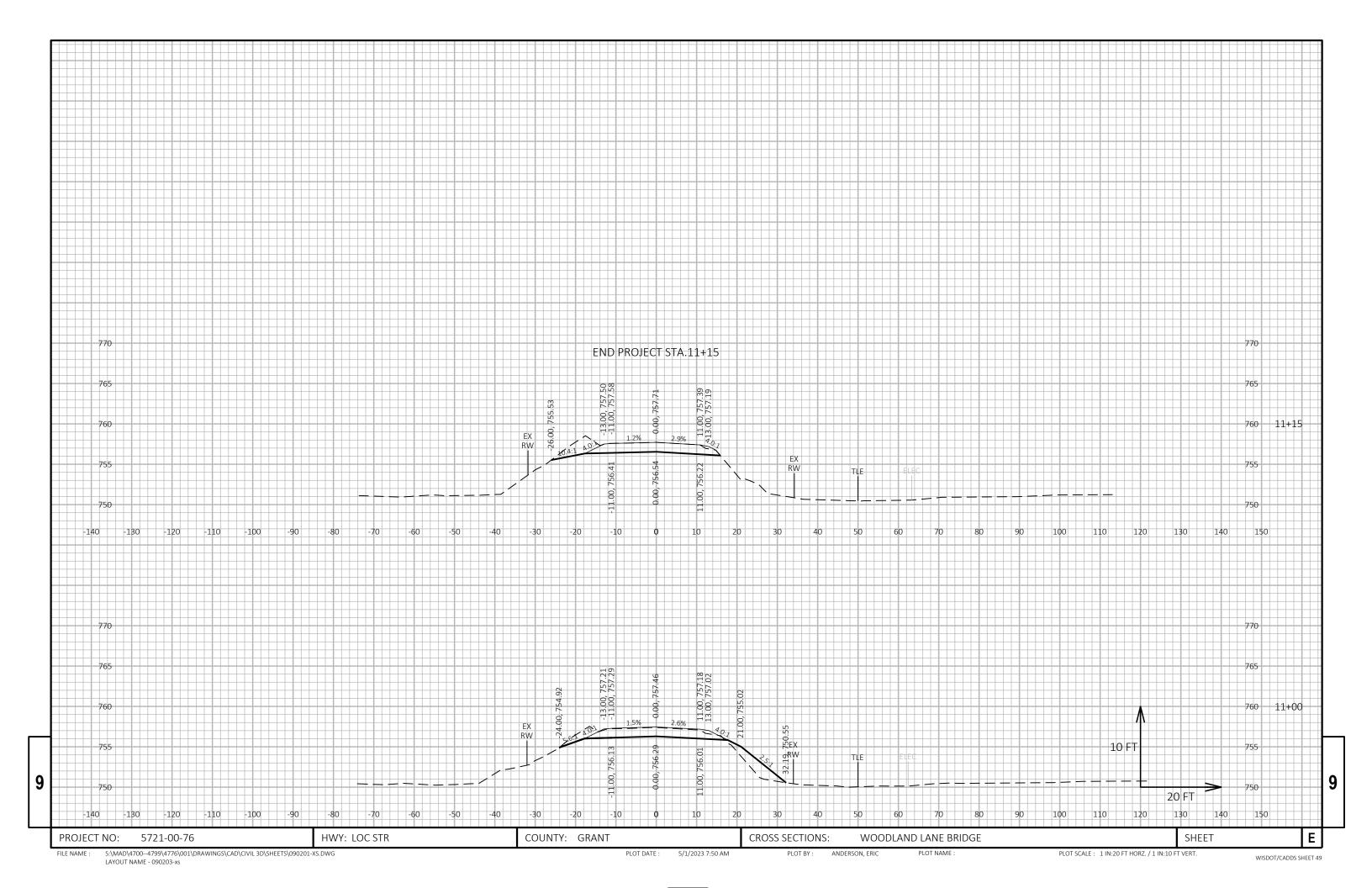
PLOT BY : ANDERSON, ERIC PLOT NAME : PLOT SCALE: 1 IN:20 FT HORZ. / 1 IN:10 FT VERT.

WISDOT/CADDS SHEET 49

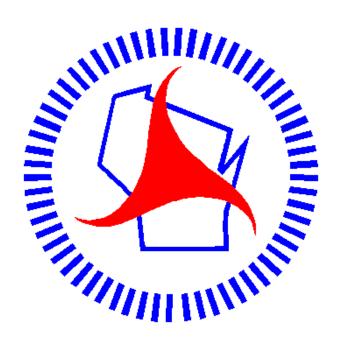
9







Notes



Wisconsin Department of Transportation

Dedicated people creating transportation solutions through innovation and exceptional service.

http://www.dot.wisconsin.gov