Section No.

Section No.

TOTAL SHEETS =

Miscellaneous Quantities

Computer Earthwork Data

Sign Plates

Cross Sections

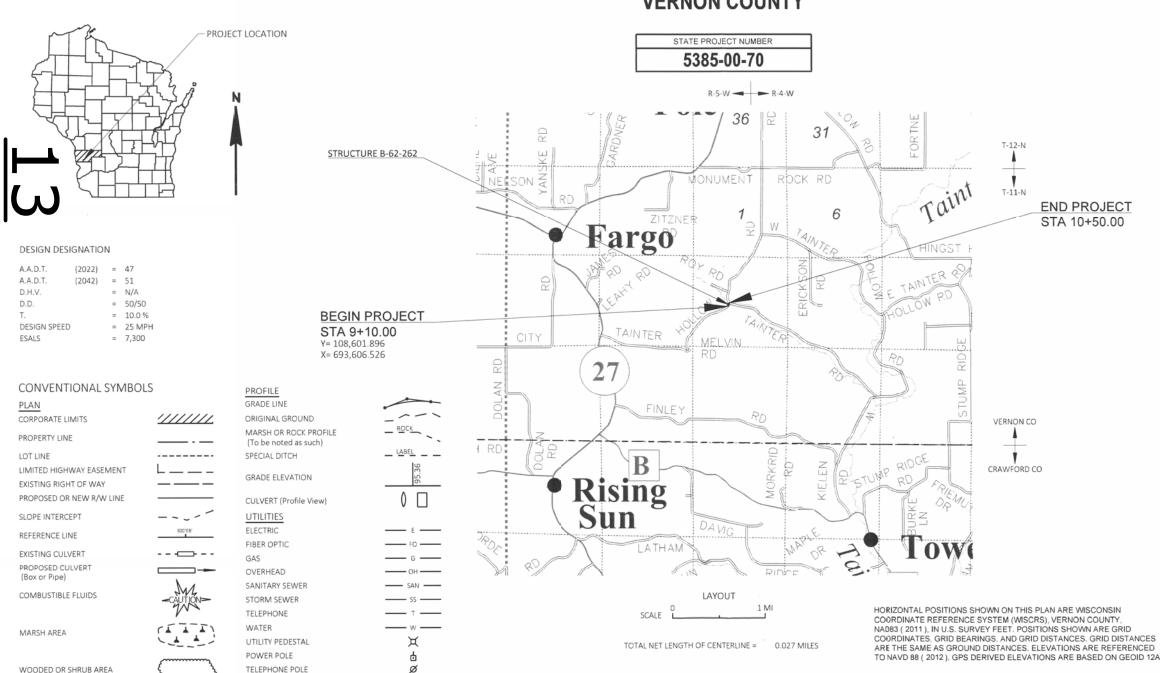
DECEMBER 2021 STATE OF WISCONSIN ORDER OF SHEETS **DEPARTMENT OF TRANSPORTATION** Section No. Typical Sections and Details Estimate of Quantities

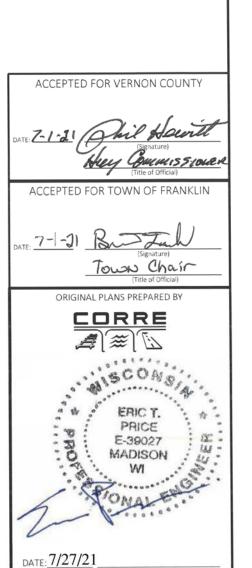
PLAN OF PROPOSED IMPROVEMENT

TOWN OF FRANKLIN, TAINTER HOLLOW RD

BR TAINTER CREEK BRIDGE. B-62-0262

LOC STR **VERNON COUNTY**





STATE OF WISCONSIN

DEPARTMENT OF TRANSPORTATION

CORRE INC

CORRE INC

ALEIGHA BURG

SW REGION

OSCAR WINGER

Aleigha Burg, P.E. Debt 2021 07.28 14:37:09-05:00

Е

PREPARED BY

Surveyor

Designer

Project Manage

ATE: 7/28/2021

Regional Examine

PPROVED FOR THE DEPARTMENT

FEDERAL PROJECT

CONTRACT

1

PROJECT

WISC 2022073

STATE PROJECT

CURVE DATA IS BASED ON THE ARC DEFINITION.

BEARINGS SHOWN ON THE PLANS ARE GRID/GROUND/PROJECT BEARINGS TO THE NEAREST SECOND.

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

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

THE EXACT LOCATION OF THE EROSION CONTROL DEVICES SHALL BE DETERMINED IN THE FIELD.

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

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

CONTRACTOR WILL BE RESPONSIBLE FOR RESHAPING AND SEEDING ANY PREVIOUSLY GRASSED AREAS WHICH ARE DISTURBED BY OPERATIONS OUTSIDE OF NORMAL CONSTRUCTION LIMITS.

ALL PAVEMENT DIMENSIONS AND STATIONS ARE SHOWN TO THE EDGE OF PAVEMENT UNLESS NOTED OTHERWISE.

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

WETLANDS EXIST WITHIN THE PROJECT LIMITS. DO NOT OPERATE MACHINERY OUTSIDE OF THE SLOPE INTERCEPTS.

3.5 INCH ASPHALTIC SURFACE SHALL BE CONSTRUCTED IN 2 EQUAL LIFTS.

ASPHALTIC SURFACE WEIGHT CALCULATIONS ARE BASED ON 112 LB/SY/INCH.

DNR CONTACT

DEPARTMENT OF NATURAL RESOURCES DNR SERVICE CENTER 3550 MORMON COULEE RD LA CROSSE, WI 54601

ATTN: MS. KAREN KALVELAGE TELEPHONE: (608) 785-9115 E-MAIL: KAREN.KÁLVELAGE@WISCONSIN.GOV ATTN: MR. PHIL HEWITT TELEPHONE: (608) 637-5452

COUNTY CONTACT

1335 RAILROAD STREET

VIROQUA, WI 54665

E-MAIL: PHIL. HEWITT@VERNONCOUNTY.ORG

VERNON COUNTY HIGHWAY COMMISSIONER

UTILITY CONTACT

*VERNON COMMUNICATIONS COOP 103 N MAIN ST PO BOX 20 WESTBY, WI 54667

ATTN: MR. SCOTT FREDERICK TELEPHONE: (608) 634-7434 E-MAIL: SFREDERICK@VERNONCOM.COOP

CONSULTANT CONTACT

CORRE, INC. 6510 GRAND TETON PLAZA SUITE 314 MADISON, WI 53719

ATTN: MR. ERIC PRICE, P.E. TELEPHONE: (608) 826-6146 E-MAIL: EPRICE@CORREINC.COM

*DENOTES DIGGERS HOTLINE MEMBER



RUNOFF COEFFICIENT TABLE

						HYDROLOG	IC SOIL GR	OUP							
			A		В			C			D				
	SLOP	E RANG	GE (PERCENT)	SLOPE	RANG	E (PERCENT)	SLOPE	ERANG	E (PERCENT)	SLOPI	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	ONCRETE					.8095									
BRICK						.7080									
DRIVES, WALKS						.7585									
ROOFS	ROOFS						.7595								
GRAVEL ROADS	, SHOULD	ERS				.4060									

TOTAL PROJECT AREA = 0.21 ACRES

TOTAL AREA EXPECTED TO BE DISTURBED BY CONSTRUCTION ACTIVITIES = 0.05 ACRES

STA 8+30.34, 14.99' RT BM 100 3/4" REBAR, NO CAP Y= 108,529.262 STA 10+56.64, 23.37' LT X= 693,566.683 3/4" X 18" REBAR W/ CAP EL= 976.000 60' Y= 108,744.146 CENTERLINE X= 693,630.453 **FFNCF** CULVERT EL= 975.063 14.8' CORNER CP 2 FND END, OF 59' 50' CP 4 5' END OF CULVERT END EXISTING | SIGN STA 9+73.18, 24.50' RT 3/4" X 18" REBAR W/ CAP Y= 108.650.782 X= 693,655.628 🚱 BM 101 EL= 975.063

CONTROL POINT TIES

PROJECT NO: 5385-00-70

HWY: TAINTER HOLLOW RD

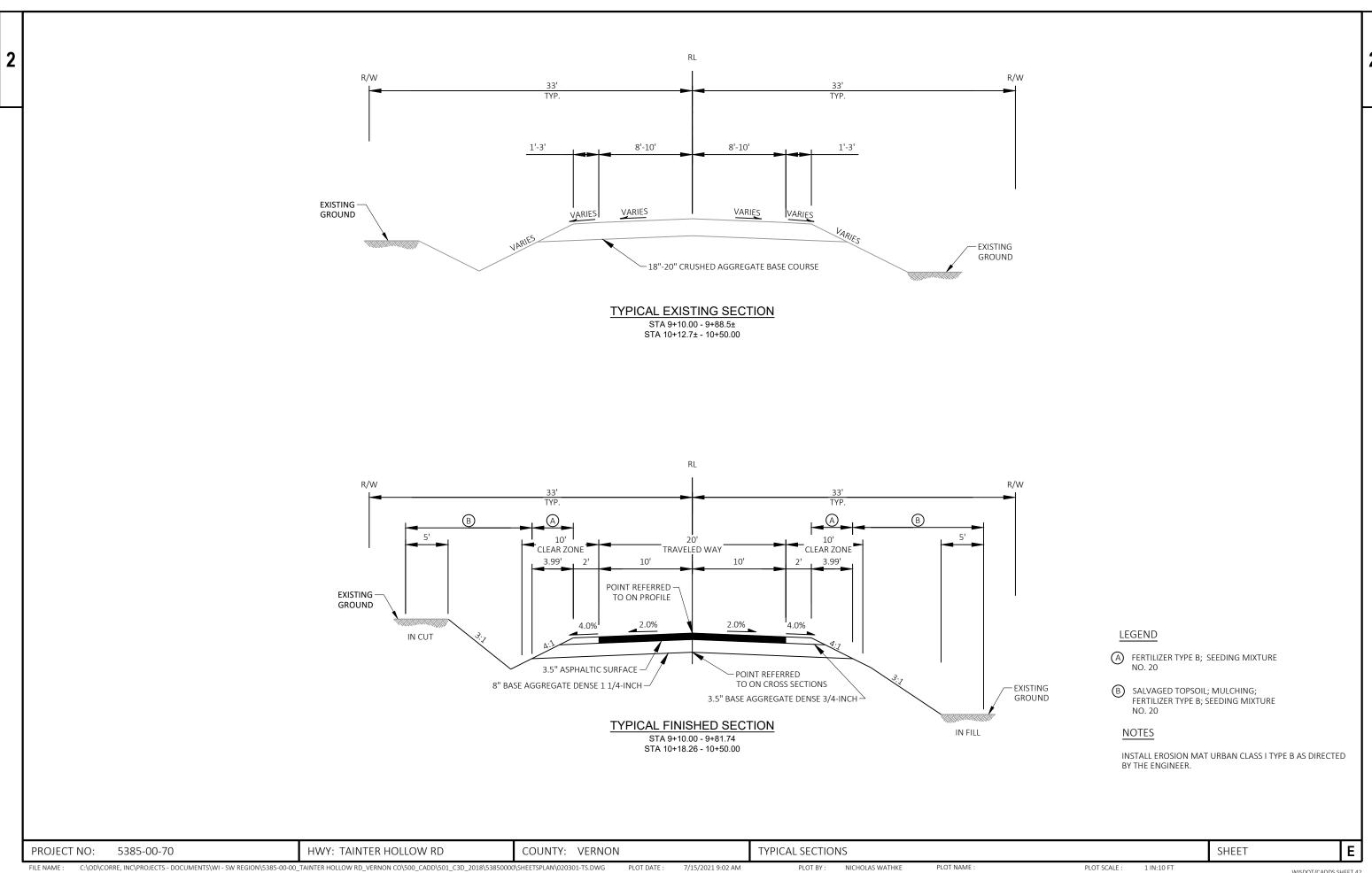
COUNTY: VERNON

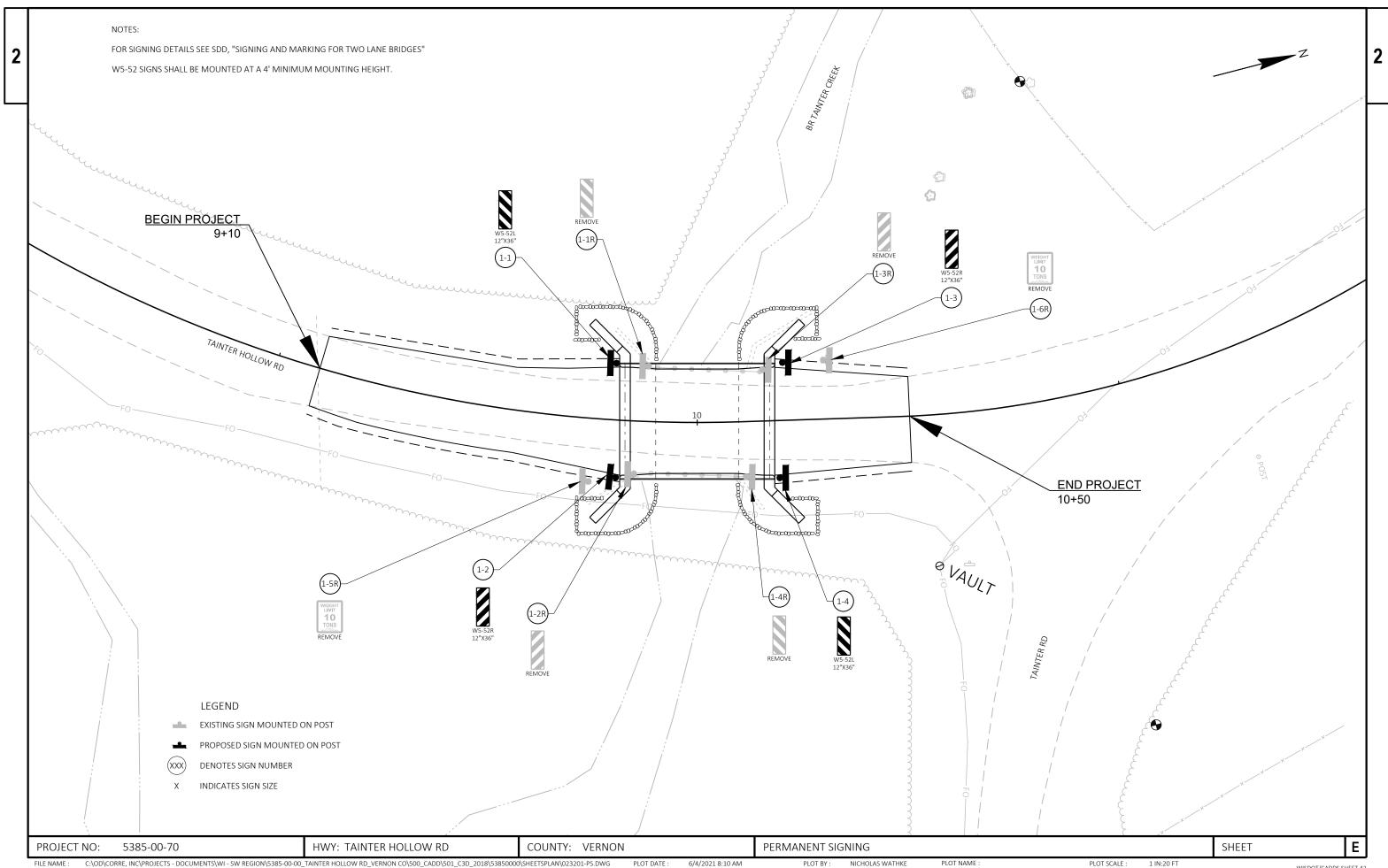
GENERAL NOTES

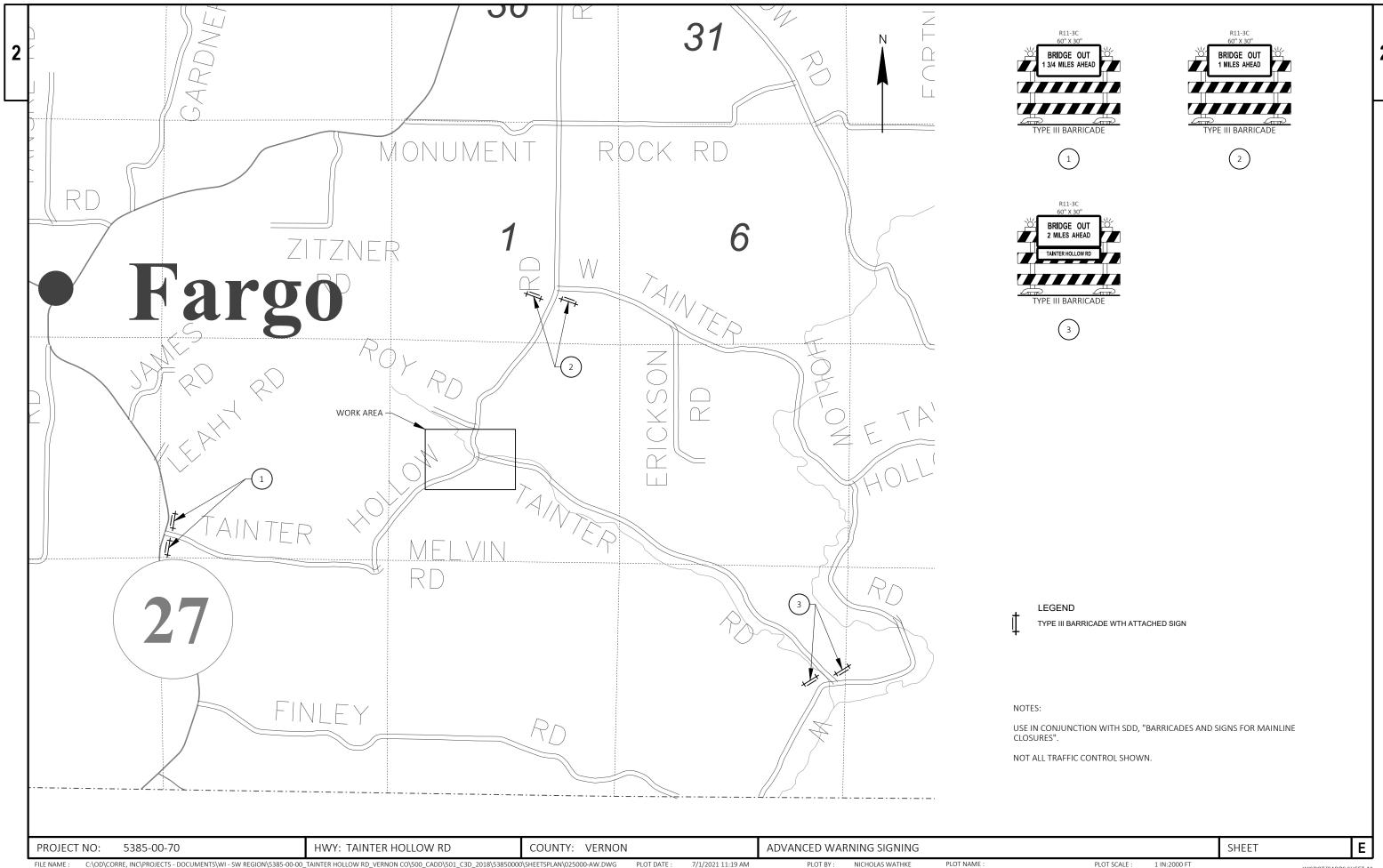
PLOT NAME

PLOT SCALE : 1 IN:100 FT SHEET

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PLOT NAME :

PLOT SCALE :

3

					5385-00-70	
Line	Item	Item Description	Unit	Total	Qty	
0002	201.0105	Clearing	STA	1.000	1.000	
0004	201.0205	Grubbing	STA	1.000	1.000	
0006	203.0260	Removing Structure Over Waterway Minimal Debris (structure) 01. P-62-911	EACH	1.000	1.000	
8000	205.0100	Excavation Common	CY	110.000	110.000	
0010	206.1000	Excavation for Structures Bridges (structure) 01. B-62-262	LS	1.000	1.000	
0012	210.1500	Backfill Structure Type A	TON	450.000	450.000	
0014	213.0100	Finishing Roadway (project) 01. 5385-00-70	EACH	1.000	1.000	
0016	305.0110	Base Aggregate Dense 3/4-Inch	TON	12.000	12.000	
0018	305.0120	Base Aggregate Dense 1 1/4-Inch	TON	127.000	127.000	
0020	455.0605	Tack Coat	GAL	18.000	18.000	
0022	465.0105	Asphaltic Surface	TON	48.000	48.000	
0024	502.0100	Concrete Masonry Bridges	CY	150.000	150.000	
0026	502.3200	Protective Surface Treatment	SY	100.000	100.000	
0028	502.3210	Pigmented Surface Sealer	SY	36.000	36.000	
0030	505.0400	Bar Steel Reinforcement HS Structures	LB	4,580.000	4,580.000	
0032	505.0600	Bar Steel Reinforcement HS Coated Structures	LB	16,890.000	16,890.000	
0034	516.0500	Rubberized Membrane Waterproofing	SY	12.000	12.000	
0036	550.0020	Pre-Boring Rock or Consolidated Materials	LF	182.000	182.000	
0038	550.1100	Piling Steel HP 10-Inch X 42 Lb	LF	260.000	260.000	
0040	606.0300	Riprap Heavy	CY	130.000	130.000	
0042	612.0406	Pipe Underdrain Wrapped 6-Inch	LF	190.000	190.000	
0044	618.0100	Maintenance And Repair of Haul Roads (project) 01. 5385-00-00	EACH	1.000	1.000	
0046	619.1000	Mobilization	EACH	1.000	1.000	
0048	624.0100	Water	MGAL	3.000	3.000	
0050	625.0100	Topsoil	SY	66.000	66.000	
0052	625.0500	Salvaged Topsoil	SY	329.000	329.000	
0054	627.0200	Mulching	SY	329.000	329.000	
0056	628.1504	Silt Fence	LF	623.000	623.000	
0058	628.1520	Silt Fence Maintenance	LF	623.000	623.000	
0060	628.1905	Mobilizations Erosion Control	EACH	5.000	5.000	
0062	628.1910	Mobilizations Emergency Erosion Control	EACH	5.000	5.000	
0064	628.2008	Erosion Mat Urban Class I Type B	SY	66.000	66.000	
0066	628.6005	Turbidity Barriers	SY	160.000	160.000	
0068	629.0210	Fertilizer Type B	CWT	0.500	0.500	
0070	630.0120	Seeding Mixture No. 20	LB	11.000	11.000	
0072	630.0200	Seeding Temporary	LB	11.000	11.000	
0074	630.0500	Seed Water	MGAL	7.000	7.000	
0076	634.0612	Posts Wood 4x6-Inch X 12-FT	EACH	4.000	4.000	
0078	637.2230	Signs Type II Reflective F	SF	12.000	12.000	
0080	638.2602	Removing Signs Type II	EACH	6.000	6.000	
0082	638.3000	Removing Small Sign Supports	EACH	6.000	6.000	
0084	642.5001	Field Office Type B	EACH	1.000	1.000	
0086	643.0420	Traffic Control Barricades Type III	DAY	1,360.000	1,360.000	
0088	643.0705	Traffic Control Warning Lights Type A	DAY	1,904.000	1,904.000	
0090	643.0900	Traffic Control Signs	DAY	1,224.000	1,224.000	
0092	643.5000	Traffic Control	EACH	1.000	1.000	
0092	645.0111	Geotextile Type DF Schedule A	SY	98.000	98.000	
0096	645.0120	Geotextile Type HR	SY	170.000	170.000	
0098	650.4500	Construction Staking Subgrade	LF	102.000	102.000	
5050	000.4000	Some detail of diving Subgrade	LI	102.000	102.000	

10/11/2021 08:32:06

Page	2
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5385-00-70

Line	Item	Item Description	Unit	Total	Qty
0100	650.5000	Construction Staking Base	LF	102.000	102.000
0102	650.6500	Construction Staking Structure Layout (structure) 01. B-62-262	LS	1.000	1.000
0104	650.9910	Construction Staking Supplemental Control (project) 01. 5385-00-70	LS	1.000	1.000
0106	650.9920	Construction Staking Slope Stakes	LF	102.000	102.000
0108	715.0502	Incentive Strength Concrete Structures	DOL	900.000	900.000
0110	999.2000.S	Installing and Maintaining Bird Deterrent System (station) 01. 10+00	EACH	1.000	1.000
0112	ASP.1T0A	On-the-Job Training Apprentice at \$5.00/HR	HRS	700.000	700.000
0114	ASP.1T0G	On-the-Job Training Graduate at \$5.00/HR	HRS	800.000	800.000

Estimate Of Quantities

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	FROM/TO STATION	LOCATION	COMMON E (CUT	EBS EXCAVATION	SALVAGED/UNUSABLE PAVEMENT MATERIAL	MATERIAL	UNEXPANDED		MASS ORDINATE +/-	
DIVISION TAINTER HOLLOW ROAD	(1) 9+10 TO 9+78.7	LOCATION	(3) 63	(4) 0	(5)	(6) 63	FILL 7	1.25	(8) 54	WASTE 54
	10+21.4 TO 10+50		47	0	0	47	0	0	47	47
TOTAL			110	0	0	110	7	9	101	101
	TOTAL CO	OMMON EXC	1	10				-		

NOTES:

- (1) LIMITS ACCOUNTY FOR 3' WIDTH OF BACKFILL STRUCTURE TYPE A BEHIND EACH ABUTMENT. SEE BRIDGE PLANS
- (2) COMMON EXCAVATION IS THE SUM OF THE CUT AND EBS EXCAVATION COLUMNS. ITEM NUMBER 205.0100
- (3) SALVAGED/UNSUABLE PAVEMENT MATERIAL IS INCLUDED IN CUT.
- (4) EBS EXCAVATION TO BE BACKFILLED WITH SELECT BORROW MATERIAL. NOTE: THIS IS DESIGNERS CHOICE, CAN BE BACKFILLED WITH BORROW, OR CUT AS WELL.
- (5) SALVAGED/UNUSABLE PAVEMENT MATERIAL
- (6) AVAILABLE MATERIAL = CUT SALVAGED/UNUSUABLE PAVEMENT MATERIAL
- (7) EXPANDED FILL FACTOR = 1.25
- (8) THE MASS ORDINATE + OR QTY CALCULATED FOR THE DIVISION. PLUS QUANTITY INDICATES AN EXCESS OF MATERIAL WITHIN THE DIVISION. MINUS INDICATES A SHORTAGE OF MATERIAL WITHIN THE DIVISION.

BASE AGGREGATE ITEMS

SILT FENCE & TURBIDITY BARRIER

CLEARING & G	RUBBING												628.1504	628.1520	628.6005
						305.0110	305.0120	624.0100					CHITEENCE	SILT FENCE	TURBIDITY
	201.0105	201.0205				BASE	BASE AGGREGATE		STATION	J TO	STATION	LOCATION	SILT FENCE LF	MAINTENANCE I F	BARRIERS SY
	CLEARING	GRUBBING				AGGREGATE	DENSE 1 1/4-		317(1101)	• 10	317111011	200/111011	<u> </u>		
STATION TO STATION LOCATION	STA	STA				DENSE 3/4-INCH	INCH	WATER	9+10	-	9+82	RT	196	196	
			STATION TO	STATION LO	CATION	TON	TON	MGAL	9+10	-	9+82	LT	100	100	
9+00 - 10+00 LT	1	1								9+91		BR TAINTER CREEK			80
<u>-</u>			9+10 -	9+82 MA	AINLINE	8	85	2		10+08		BR TAINTER CREEK			80
	1	1	10+18 -	10+50 MA	AINLINE	4	42	1	10+18	-	10+50	RT	182	182	
									10+18	-	10+50	LT	145	145	
						12	127	3				_			
													623	623	160

LANDSCAPING ITEMS

		<u>ASPHALT</u>	<u>ITEMS</u>				625.0100	625.0500	627.0200	628.1905	628.1910 MOBILIZATIONS	628.2008	629.0210	630.0120	630.0200	630.0500
			455.0605 TACK COAT	465.0105 ASPHALTIC SURFACE	STATION TO STATION	LOCATION	TOPSOIL SY	SALVAGED TOPSOIL SY	MULCHING SY	MOBILIZATIONS EROSION CONTROL EACH	EMERGENCY EROSION CONTROL EACH	EROSION MAT URBAN CLASS I TYPE B SY	FERTILIZER TYPE B CWT	SEEDING MIXTURE NO. 20 LB	SEEDING TEMPORARY LB	SEED WATER MGAL
STATION TO	STATION	LOCATION	GAL	TON												
9+10 - 10+18 -	9+82 10+50	MAINLINE MAINLINE	12 6	32 16	9+10 - 9+82 9+10 - 9+82 10+18 - 10+50 10+18 - 10+50	RT LT RT LT	 	104 79 44 36 66	104 79 44 36 66	 	 	 66	0.10 0.10 0.10 0.10 0.10	3 3 2 1	3 3 2 1	2 2 1 1
			18	48	UNDISTRIBUTED (25%)	-	66	329	329	5	5	66	0.50	11	11	7
PROJECT NO:	5385-0	00-70		HWY: TAINTER I	HOLLOW RD	COUNTY:	VERNON		MISCEL	LANEOUS QUANT	TITIES				SHEET	Te

PLOT DATE: 10/4/2021 PLOT BY: CORRE, INC. PLOT NAME:

PLOT SCALE 1:1

SIGNING ITEMS

					634.0612 POSTS WOOD 4X6-INCH X 12- FT	637.2230 SIGNS TYPE II REFLECTIVE F	638.2602 REMOVING SIGNS TYPE II	638.3000 REMOVING SMALL SIGN SUPPORTS	
STATION	SIGNID	LOCATION	SIGN CODE	SIZE	EACH	SF	EACH	EACH	REMARKS
'									
9+79	1-1	TAINTER HOLLOW RD LT	W5-52L	12" X 36"	1	3.00			BRIDGE MARKER LEFT
9+87	1-1R	TAINTER HOLLOW RD LT					1	1	
9+81	1-2	TAINTER HOLLOW RD RT	W5-52R	12" X 36"	1	3.00			BRIDGE MARKER RIGHT
9+85	1-2R	TAINTER HOLLOW RD RT					1	1	
10+19	1-3	TAINTER HOLLOW RD LT	W5-52R	12" X 36"	1	3.00			BRIDGE MARKER RIGHT
10+16	1-3R	TAINTER HOLLOW RD LT					1	1	
10+19	1-4	TAINTER HOLLOW RD RT	W5-52L	12" X 36"	1	3.00			BRIDGE MARKER LEFT
10+12	1-4R	TAINTER HOLLOW RD RT					1	1	
9+72	1-5R	TAINTER HOLLOW RD RT					1	1	WEIGHT LIMIT 10 TONS
10+30	1-6R	TAINTER HOLLOW RD LT					1	1	WEIGHT LIMIT 10 TONS
					4	12.00	6	6	-

TRAFFIC CONTROL ITEMS

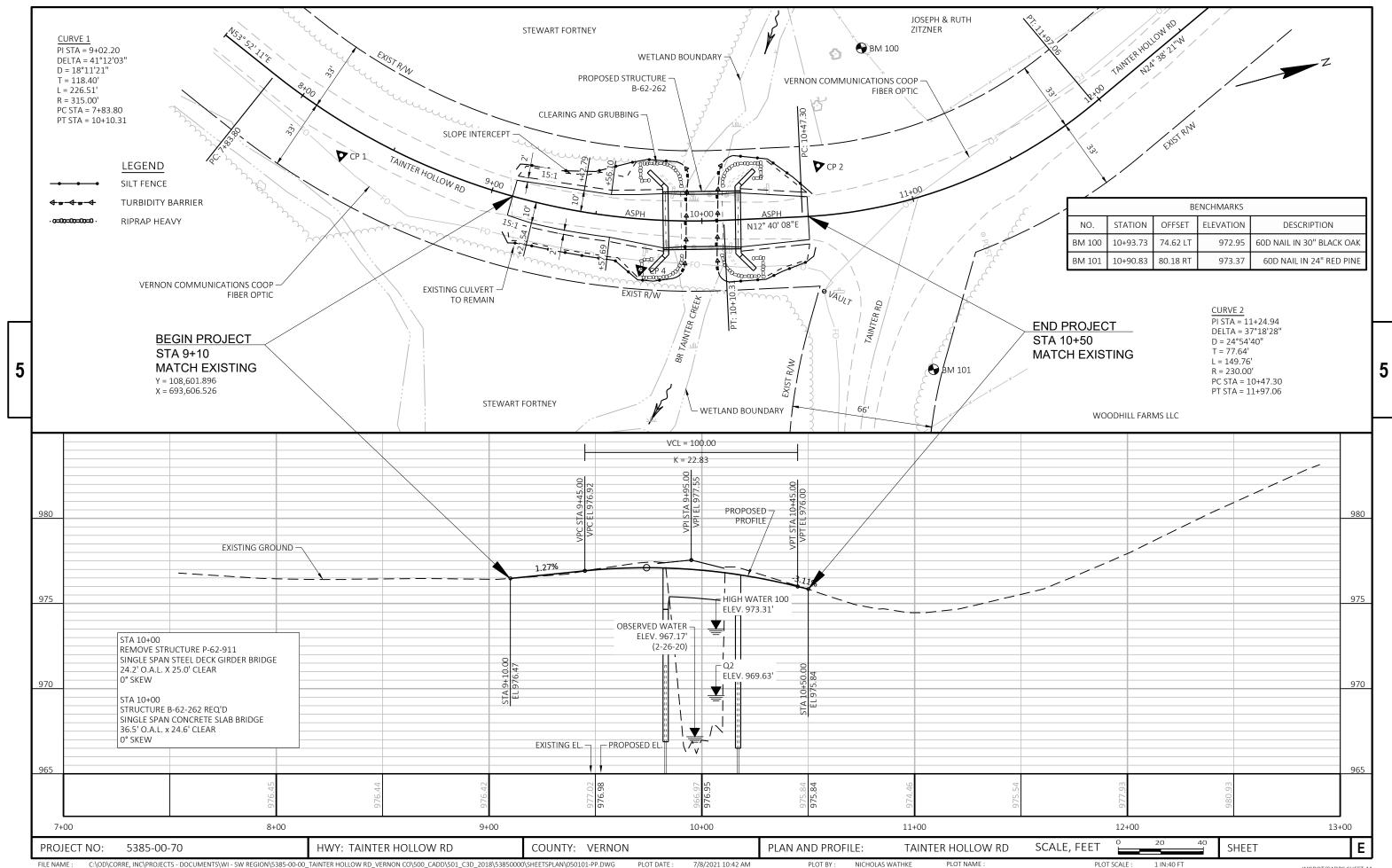
	643.0420	643.0705	643.0900	643.5000	
	TRAFFIC	TRAFFIC			
	CONTROL	CONTROL			
	BARRICADES	WARNING	TRAFFIC	TRAFFIC	
	TYPEIII	LIGHTS TYPE A	CONTROL SIGNS	CONTROL	
LOCATION	DAY	DAY	DAY	EACH	
PROJECT	1,360	1,904	1,224	1	
' <u>-</u>	1,360	1,904	1,224	1	Τ

CONSTRUCTION STAKING ITEMS

						CAT 0020		
				650.4500	650.5000	650.6500.01	650.9910	650.9920
						CONSTRUCTION	CONSTRUCTION	
						STAKING	STAKING	
				CONSTRUCTION		STRUCTURE	SUPPLEMENTAL	CONSTRUCTION
				STAKING	CONSTRUCTION	LAYOUT	CONTROL	STAKING SLOPE
				SUBGRADE	STAKING BASE	B-62-0262	5385-00-70	STAKES
STATION	TO	STATION	LOCATION	LF	LF	LS	LS	LF
								_
9+10	-	9+81	MAINLINE	71	71			71
10+19	-	10+50	MAINLINE	31	31			31
Р	ROJEC	T				1	1	
				102	102	1	1	102

HWY: TAINTER HOLLOW RD Ε PROJECT NO: 5385-00-70 COUNTY: VERNON MISCELLANEOUS QUANTITIES SHEET PLOT DATE: 7/27/2021

PLOT BY: CORRE, INC. PLOT NAME: PLOT SCALE 1:1



Standard Detail Drawing List

08E09-06	SILT FENCE
08E11-02	TURBI DI TY BARRI ER
12A03-10	NAME PLATE (STRUCTURES)
15C02-08A	BARRICADES AND SIGNS FOR MAINLINE CLOSURES
15C02-08B	BARRICADES AND SIGNS FOR VARIOUS CLOSURES
15C06-09	SIGNING & MARKING FOR TWO LANE BRIDGES
15D38-02A	TEMPORARY TRAFFIC CONTROL SIGN MOUNTING
15D38-02B	ATTACHMENT OF SIGNS TO POSTS

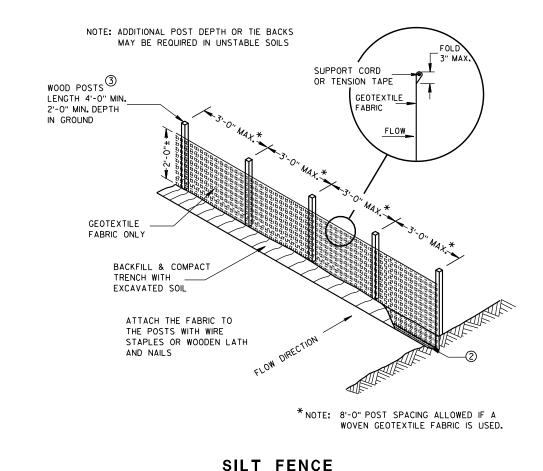
TYPICAL APPLICATION OF SILT FENCE

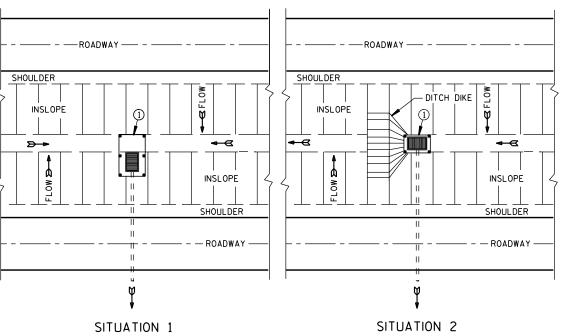
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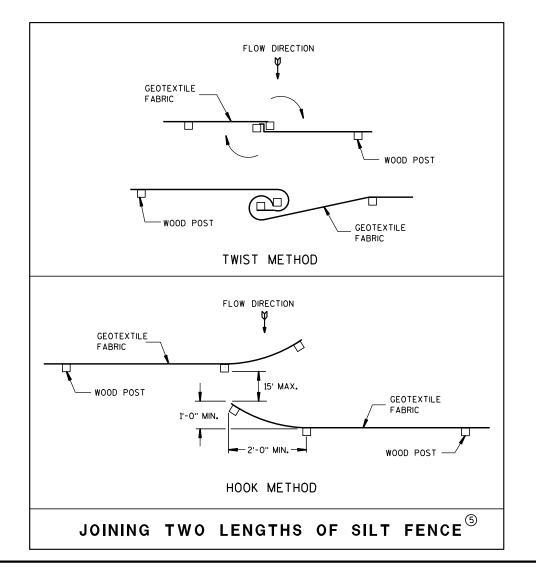
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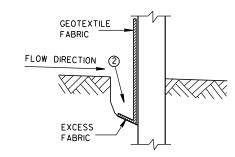
PLAN VIEW SILT FENCE AT MEDIAN SURFACE DRAINS



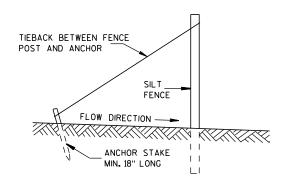
GENERAL NOTES

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.

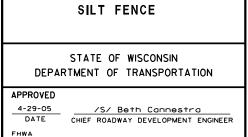


TRENCH DETAIL



SILT FENCE TIE BACK

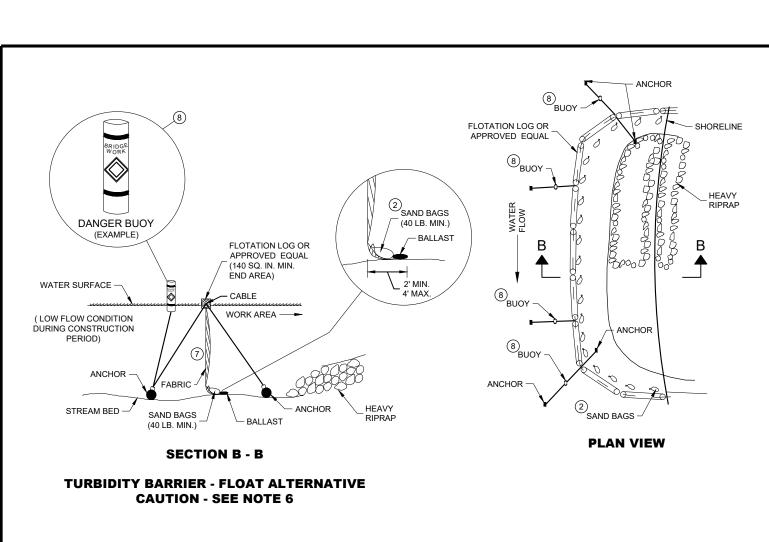
(WHEN REQUIRED BY THE ENGINEER)

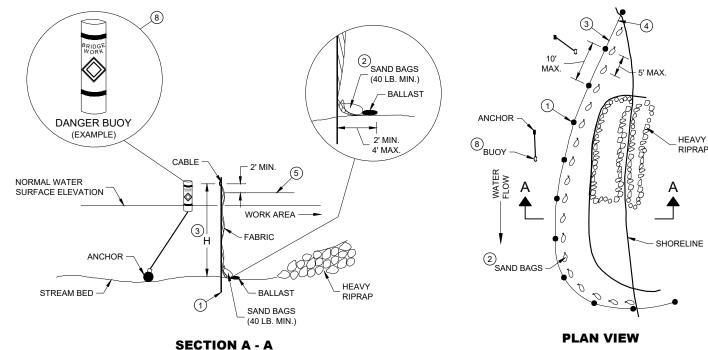


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D.D. 8 E 9-6





TURBIDITY BARRIER - STANDARD POST INSTALLATION

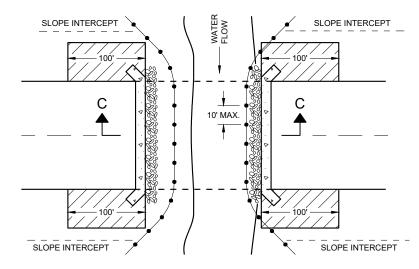
TURBIDITY BARRIER PLACEMENT DETAILS

GENERAL NOTES

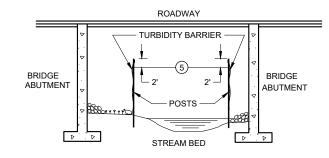
DETAILS OF CONSTRUCTION, MATERIALS AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS AND THE APPLICABLE SPECIAL PROVISIONS.

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) 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 THE UPSTREAM END.
- (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

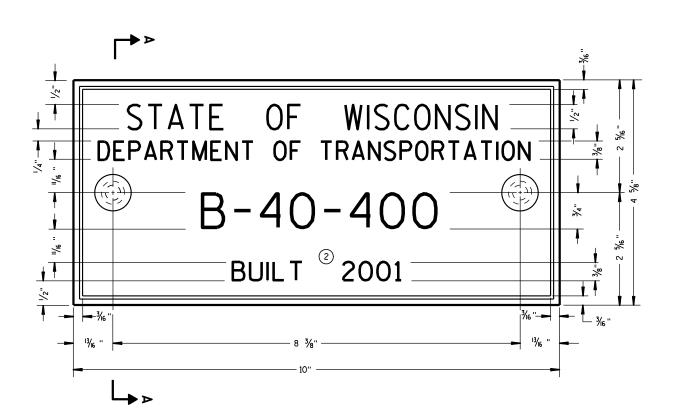
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6/4/02 /S/ Beth Cannestra

DATE CHIEF ROADWAY DEVELOPMENT
ENGINEER

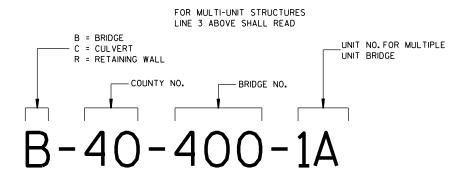
APPROVED





TYPICAL NAME PLATE

(BRIDGES, CULVERTS, AND RETAINING WALLS)



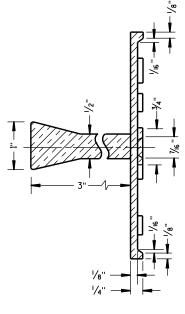
NUMBERING DESIGNATION MULTI-UNIT STRUCTURES

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.

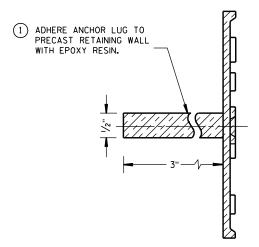
- 1 EPOXY RESIN SHALL BE FROM AN APPROVED MANUFACTURER AND USED IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS.
- REHABILITATION OF AN EXISTING STRUCTURE SHOULD USE THE DATE OF ORIGINAL STRUCTURE CONSTRUCTION.



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

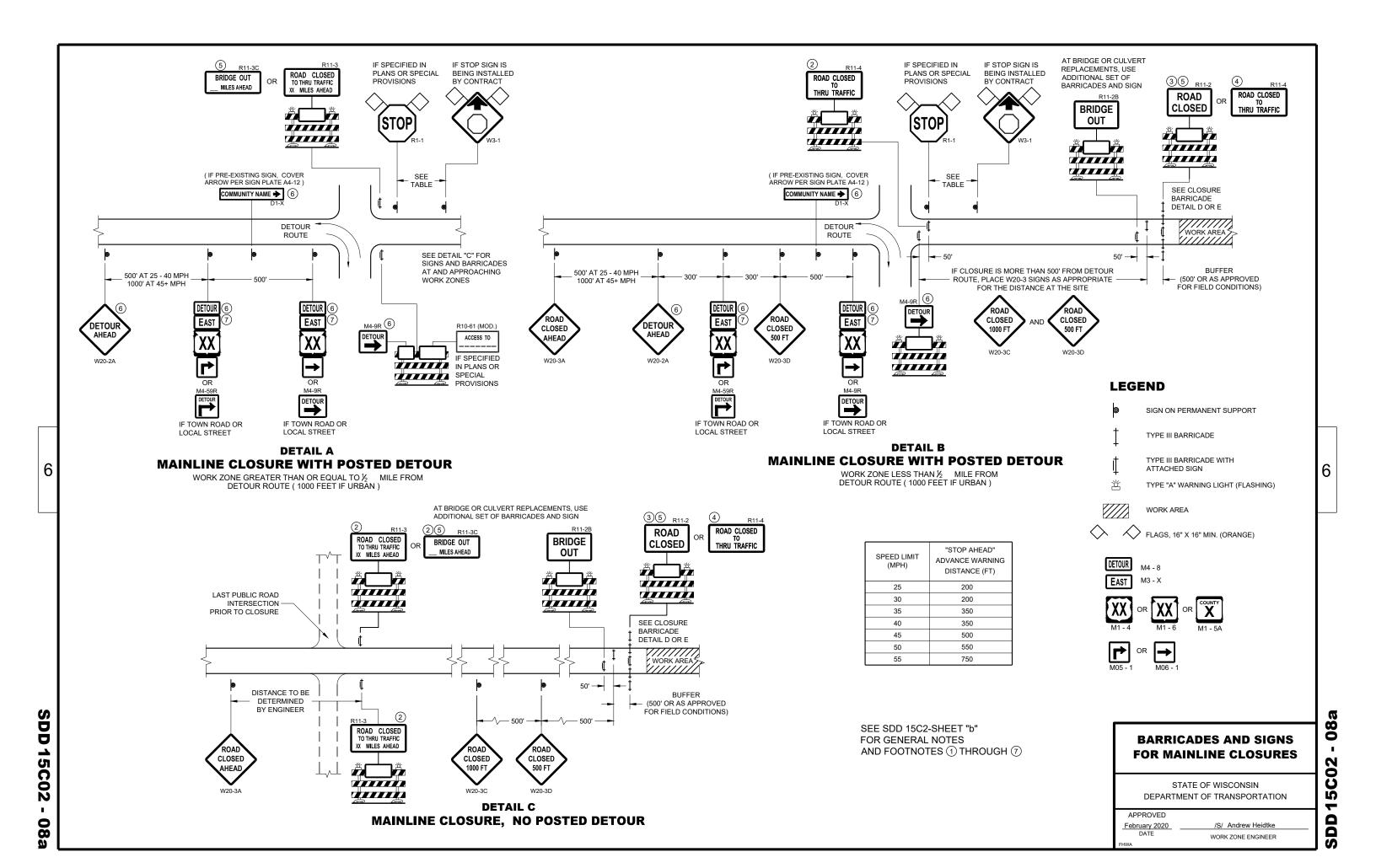
APPROVED

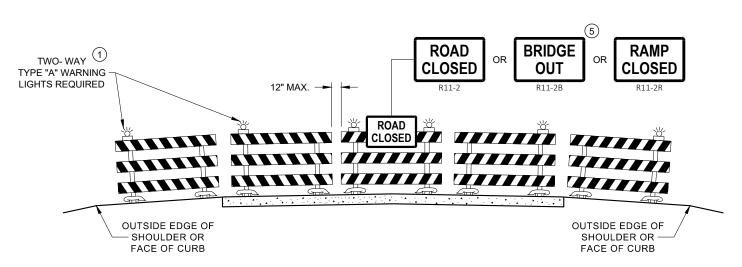
3/26/IO /S/ Scot Becker

DATE CHIEF STRUCTURAL DEVELOPMENT ENGINEER

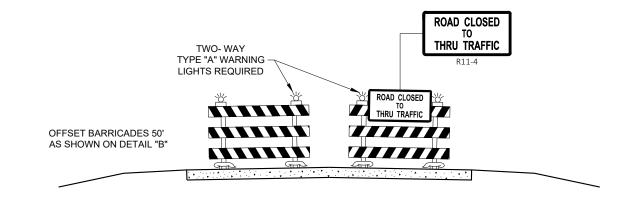
.D.D. 12 A

3-10





DETAIL D 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 BARRICADE.

THE R11 - 2, R11 - 3, M4 - 9, R11 - 4, AND R10 - 61 SIGNS PLACED ON THE BARRICADES SHALL COVER NO MORE THAN THE TOP RAIL. THE SIGNS SHALL NOT COVER ANY PORTION OF THE MIDDLE RAIL 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 SHALL, 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" (36" X 18" IF NEEDED TO MATCH EXISTING SIGNS)

M1 - 4, M1 - 5A AND M1 - 6 SHALL BE 24" X 24" (36" X 36" IF NEEDED TO MATCH EXISTING SIGNS)

MO5 - 1 AND MO6 - 1 SHALL BE 21" X 21" (30" X 30" IF NEEDED TO MATCH EXISTING SIGNS) D1 - X SHALL BE AS SHOWN ON SPECIFIC PROJECT SIGNING DETAIL SHEETS.

R1 - 1 SHALL BE 36" X 36"

- 1 TWO WARNING LIGHTS SHALL BE PROVIDED ON THE CENTER BARRICADE AND A MINIMUM OF ONE WARNING LIGHT SHALL BE PROVIDED ON EACH OF THE OTHER BARRICADES WITHIN THE ROADWAY LIMITS. SPACING OF THE WARNING LIGHTS SHALL BE UNIFORM TO THE EDGE OF ROADWAY AS SHOWN (APPROX. 8 FOOT LIGHT SPACING.
- THESE SIGNS AND BARRICADES ARE NOT REQUIRED IF ROAD CLOSURE BEGINS AT AN INTERSECTION.
- (3) FOR ROAD CLOSURE WITHOUT LOCAL ACCESS TO PROJECT, SEE ROAD CLOSURE BARRICADE DETAIL "D".
- (4) FOR ROAD CLOSURE WITH LOCAL ACCESS TO PROJECT, SEE ROAD CLOSURE BARRICADE DETAIL "E".
- (5) FOR BRIDGE OR CULVERT REPLACEMENTS, SUBSTITUTE "BRIDGE OUT" INSTEAD OF "ROAD CLOSED" ON R11 2 AND R11 3 SIGNS.
- (6) 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.
- (7) "EAST" CARDINAL DIRECTION MARKERS AND RIGHT TURN ARROWS ARE SHOWN. USE OTHER CARDINAL DIRECTIONS AND ARROWS AS APPROPRIATE.

FOR VARIOUS CLOSURES

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

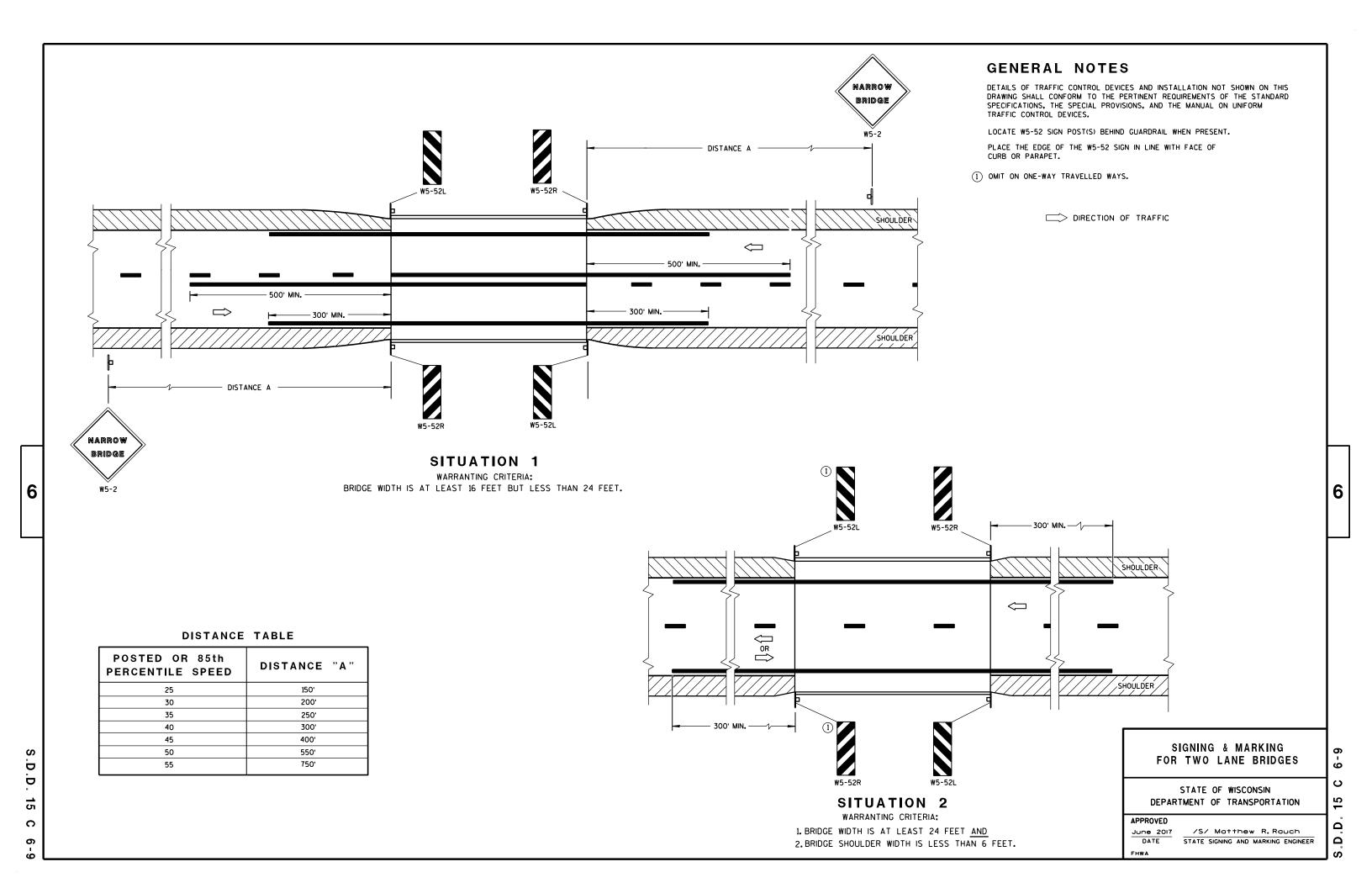
APPROVED

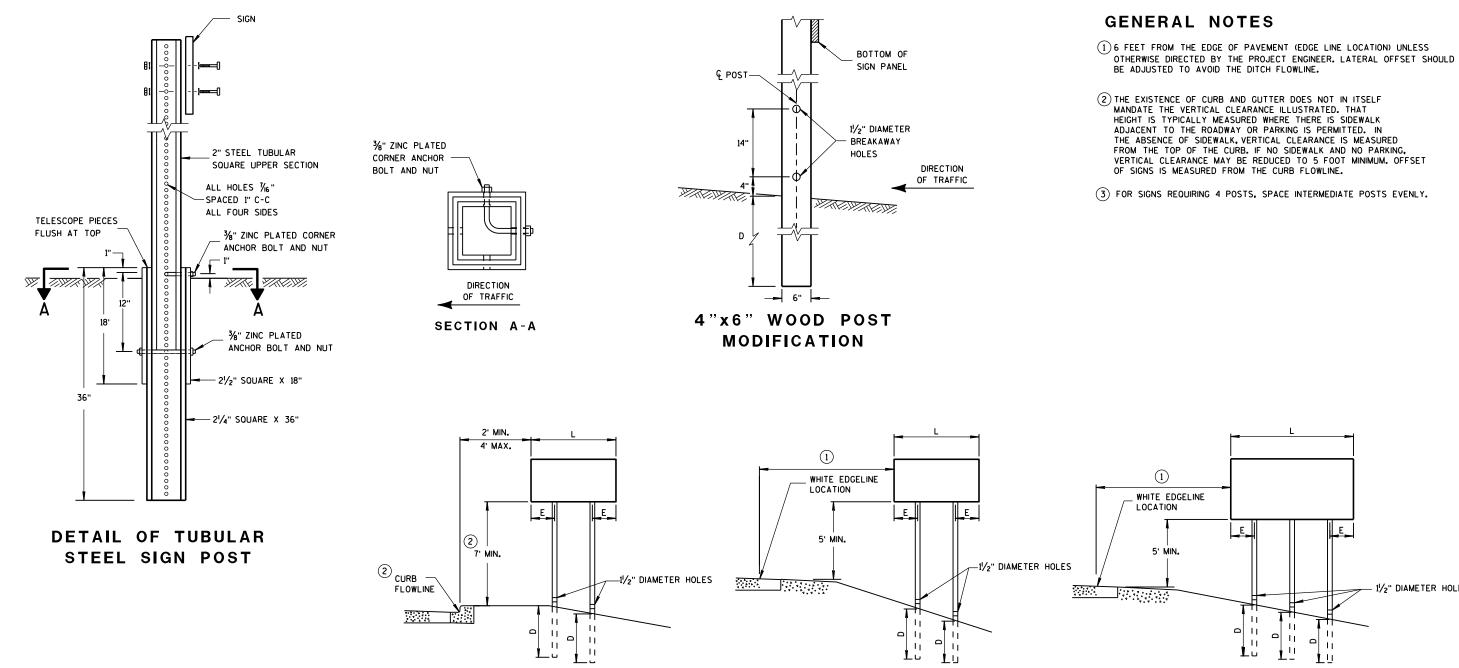
February 2020 /S/ Andrew Heidtke

DATE WORK ZONE ENGINEER

D15C02

0





TUBULAR STEEL POSTS

6

D

D

15

D

 ∞

AREA OF SIGN INSTALLATION (SO. FT.)	NUMBER OF REQUIRED TUBULAR STEEL POSTS
9 OR LESS	1
GREATER THAN 9 LESS THAN OR EQUAL TO 18	2
GREATER THAN 18 LESS THAN OR EQUAL TO 27	3

SIGNS WIDER THAN 3 FEET OR LARGER THAN 9 SO.FT. SHALL BE MOUNTED ON MULTIPLE POSTS (SEE ABOVE TABLE). SIGNS LARGER THAN 27 SO.FT. SHALL NOT BE MOUNTED ON TUBULAR STEEL POSTS.

URBAN AREA

RURAL AREA

POST MOUNTING DETAIL FOR TEMPORARY TRAFFIC CONTROL FIXED MESSAGE SIGNS

WOOD POST **EMBEDMENT DEPTH**

AREA OF SIGN INSTALLATION (SO. FT.)	D (MIN)
20 OR LESS	4'
GREATER THAN 20	5'

4" X 6" WOOD POST

POST SPACING REQUIREM	IENTS	NUMBER OF WOOD POSTS			
L	E	REQUIRED			
48" OR LESS AND LESS THAN 20 SO.FT.	-	1			
LESS THAN 60"	12"	2	٤		
60" TO 120"	L/5	2			
GREATER THAN 120" LESS THAN 168"	12"	3			
168" AND GREATER	12"	4			

SEE NOTE (3)

TEMPORARY TRAFFIC CONTROL SIGN MOUNTING

STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION

-11

Ω Ω

- 11/2" DIAMETER HOLES

6

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Δ

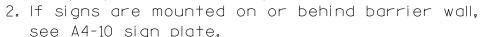
0 ∞ **2**D

STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION

> /S/ Andrew Heidtke WORK ZONE ENGINEER

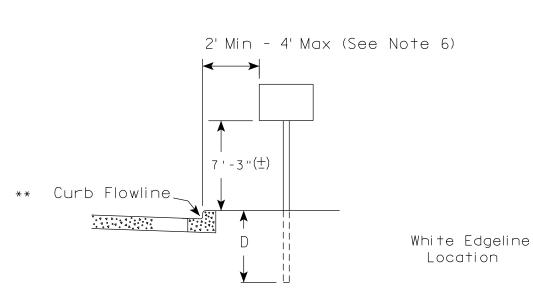
APPROVED

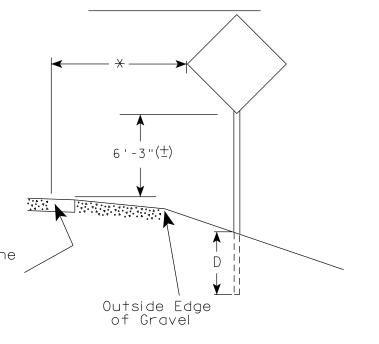
June 2017
DATE



The Double Arrow sign (W12-1D) shall be mounted at a height of 2'-3" (±). The Chevron sign (W1-8), Roundabout Chevron panel (R6-4B), Enhanced Reference Markers, Clearance Markers (W5-52). Mile Markers (D10 series). In Road Object Markers (W5-54) & End of Road Markers (W5-56) shall be mounted at a height of 4'-3'' ($\frac{+}{-}$).

- 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 signs mounted on traffic signal poles is $5' - 3'' \stackrel{(\pm)}{-}$.
- 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.





2' Min - 4' Max (See Note 6) 6'-3"(±) ** Curb Flowline D

5'-3"(士) White Edgeline $D \parallel$ Location 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 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.

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 For State Traffic Engineer

DATE 5/13/2020

SHEET NO:

Ε

PROJECT NO: FILE NAME : C:\CAEfiles\Projects\tr_stdplate\A43.dgn COUNTY:

PLOT BY: mscj9h

PLOT NAME :

PLOT SCALE: \$\$.....plo†scale.....\$\$ WISDOT/CADDS SHEET 42

PLOT DATE: 13-MAY 2020 1:04



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



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

WISDOT/CADDS SHEET 42

GENERAL NOTES

- 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'' (±) 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.
- ** 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'

WISCONSIN DEPT OF TRANSPORTATION APPROVED For State Traffic Engineer DATE 8/21/17 PLATE NO. <u>A4-4.15</u>





	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 SCALE: 108.188297:1.000000

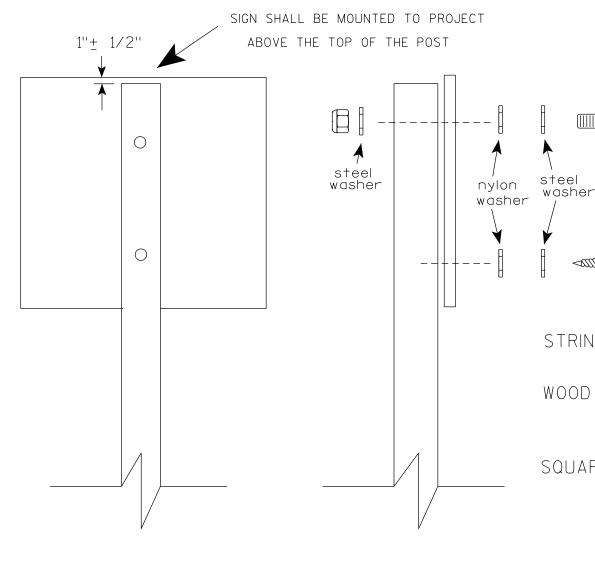
WISDOT/CADDS SHEET 42

OF TYPE II SIGNS ON MULTIPLE POSTS

TYPICAL INSTALLATION

SHEET NO:

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



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

APPROVED

DATE 4/1/2020

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

FILE NAME : C:\CAEFiles\Projects\tr_stdplate\A48.DGN

PROJECT NO:

PLOT DATE: 01-APRIL-2020

PLOT BY : dotc4c

WISDOT/CADDS SHEET 42

Ε

WISCONSIN DEPT OF TRANSPORTATION

Matther ≠or State Traffic Engineer

SHEET NO:



PROJECT NO: HWY: COUNTY: SHEET NO: FILE NAME : C:\CAEFiles\Projects\tr_stdplate\A49.DGN PLOT DATE: 05-FEB-2015 17:09 PLOT BY: mscsja PLOT NAME : PLOT SCALE: 13.659812:1.000000

DATE 2/05/15

PLATE NO. <u>A4-9.9</u>

For State Traffic Engineer



BANDING



SINGLE SIGN





WASHER PLACEMENT



HWY:

WASHERS (ALL POSTS) -

1-1/4" O.D. X³/₈" I.D. X¹/₁₆" STEEL 1-1/4" O.D. $\times \frac{3}{8}$ " I.D. \times .080 NYLON FOR ALL TYPE H SIGNS

CHANNEL

GENERAL NOTES

- 1. Any sign over 3 feet in width shall use the V-Block banding method. See A5-10 standard plate.
- 2. Signs 3 feet or greater in height shall have three bracket bands installed. Signs less than 3 feet in height shall have two bracket bands installed.
- 3. Banding and assembly bracket shall be stainless steel. All bands shall be $\frac{3}{4}$ " in width and 0.025" thickness.
- 4. ALL SIGN MOUNTING BOLTS AND WASHERS SHALL BE EITHER:
 - a. Hot dip or mechanically galvanized in accordance with ASTM Designation: A 153, Class D
 - b. Electro-galvanized in accordance with ASTM designation: B 633, Type III, SC 3

"J" ASSEMBLY



STANDARD SIGN SIGN BANDING DETAILS

WISCONSIN DEPT OF TRANSPORTATION

SHEET NO:

APPROVED

DATE 6/10/19

PLATE NO. A5-9.4

Ε

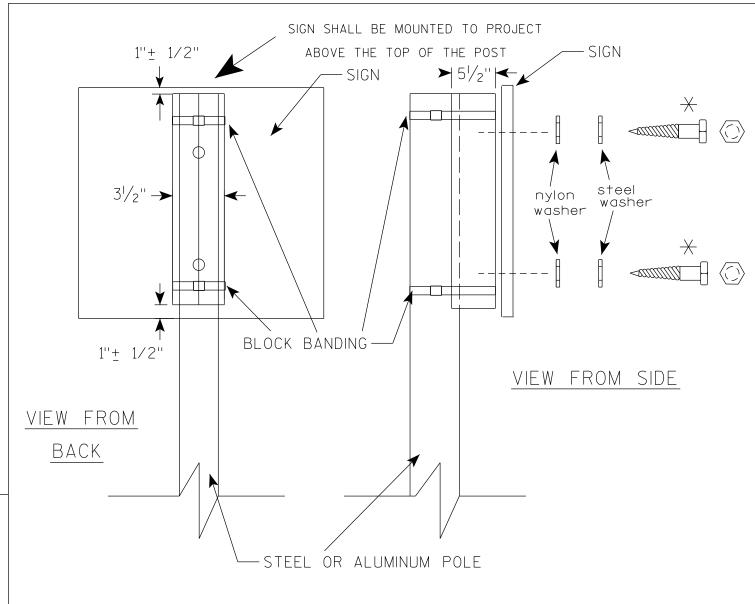
State Traffic Engineer

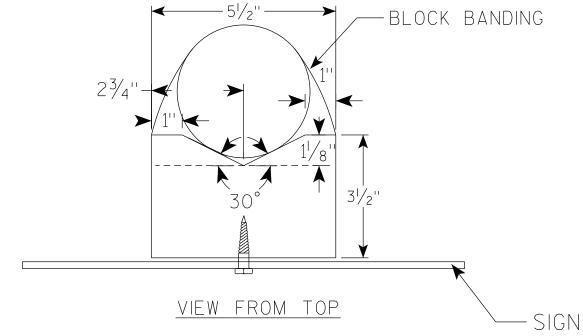
COUNTY:

PLOT NAME :

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

PROJECT NO:





GENERAL NOTES

- 1. WOOD 4"X6" POST MATERIAL SHALL CONFORM TO 507.2.2 OF THE WISDOT STANDARD SPECIFICATIONS
- 2. BLOCK BANDING AND CLIPS SHALL BE STAINLESS STEEL, $\frac{3}{4}$ " WIDTH AND 0.025" THICKNESS
- 3. SIGNS 3' OR GREATER IN HEIGHT SHALL UTILIZE 3 BLOCK BANDS.

 SIGNS UNDER 3' IN HEIGHT SHALL UTILIZE 2 BLOCK BANDS
- 4. ACTUAL NUMBER OF FASTENERS PER SIGN VARIES WITH THE SIGN AREA, BUT NORNALLY THERE ARE TWO. FOR SIGNS GREATER THAN 9 S.F. 3 FASTENERS SHALL BE USED.
- 5. ALL SIGN MOUNTING BOLTS AND WASHERS SHALL BE EITHER:
 - a. Hot dip or mechanically galvanized in accordance with ASTM Designation: A 153, Class D
 - b. Electro-galvanized in accordance with ASTM Designation: B 633, TYPE III, SC 3
- 6. ALL BOLTS SHALL HAVE HEXAGONAL HEADS.
- 7. STEEL WASHERS SHALL BE $1\frac{1}{4}$ " O.D. X $\frac{3}{8}$ " I.D. X $\frac{1}{16}$ "
- 8. NYLON WASHERS SHALL BE $1^{1}/_{4}$ " O.D. X $\frac{3}{8}$ " I.D. X .080 FOR TYPE H OR TYPE F FACE SIGN

 \rightarrow LAG BOLTS SHALL BE $\frac{3}{8}$ " X $2\frac{1}{2}$ "

BLOCK BANDING DETAIL (V-BLOCK OPTION)

WISCONSIN DEPT OF TRANSPORTATION

Matthew R

APPROVED

For State Traffic Engineer

SHEET NO:

DATE <u>6/10/19</u>

PLATE NO. <u>A5-10.2</u>

PROJECT NO:

FILE NAME : C:\CAEfiles\Projects\tr_stdplate\A510.dgn

PLOT DATE: 10-JUN 2019 4:15

PLOT BY : mscj9h

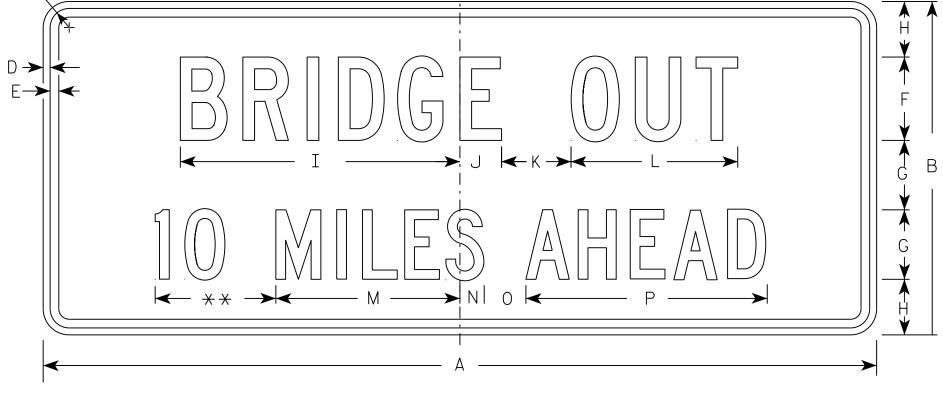
WISDOT/CADDS SHEET 42



- 1. Sign is Type II Type H Reflective
- 2. Color:

Background - White Message - Black

- 3. Message Series C
- 4. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.
- 5. Substitute appropriate numerals to nearest quarter mile and optically adjust spacing to achieve proper balance.



R11-3C

** See Note 5

1/4 MILF AH

SIZE	Α	В	С	D	E	F	G	Н	I	٦	K	L	М	N	0	Р	Q	R	S	Т	C	٧	W	Х	Υ	Z	Area sq. ft.
1	36	15	1 3/8	1/2	5/8	4	3	2 1/2	13 1/4	2 1/4	3	8	8	1 1/2	2	10 ¾		7 1/8									3.75
2S	60	24	1 3/8	1/2	5/8	6	5	4	20 1/8	3	5	12	13 1/4	1 3/4	3	17 3/8		11 1/8									10.0
2M	60	24	1 3/8	1/2	5/8	6	5	4	20 1/8	3	5	12	13 1/4	1 3/4	3	17 3/8		11 1/8									10.0
3																											
4																											
5																											

STANDARD SIGN R11-3C

WISCONSIN DEPT OF TRANSPORTATION

APPROVED

Matther R Rauch
For State Traffic Engineer

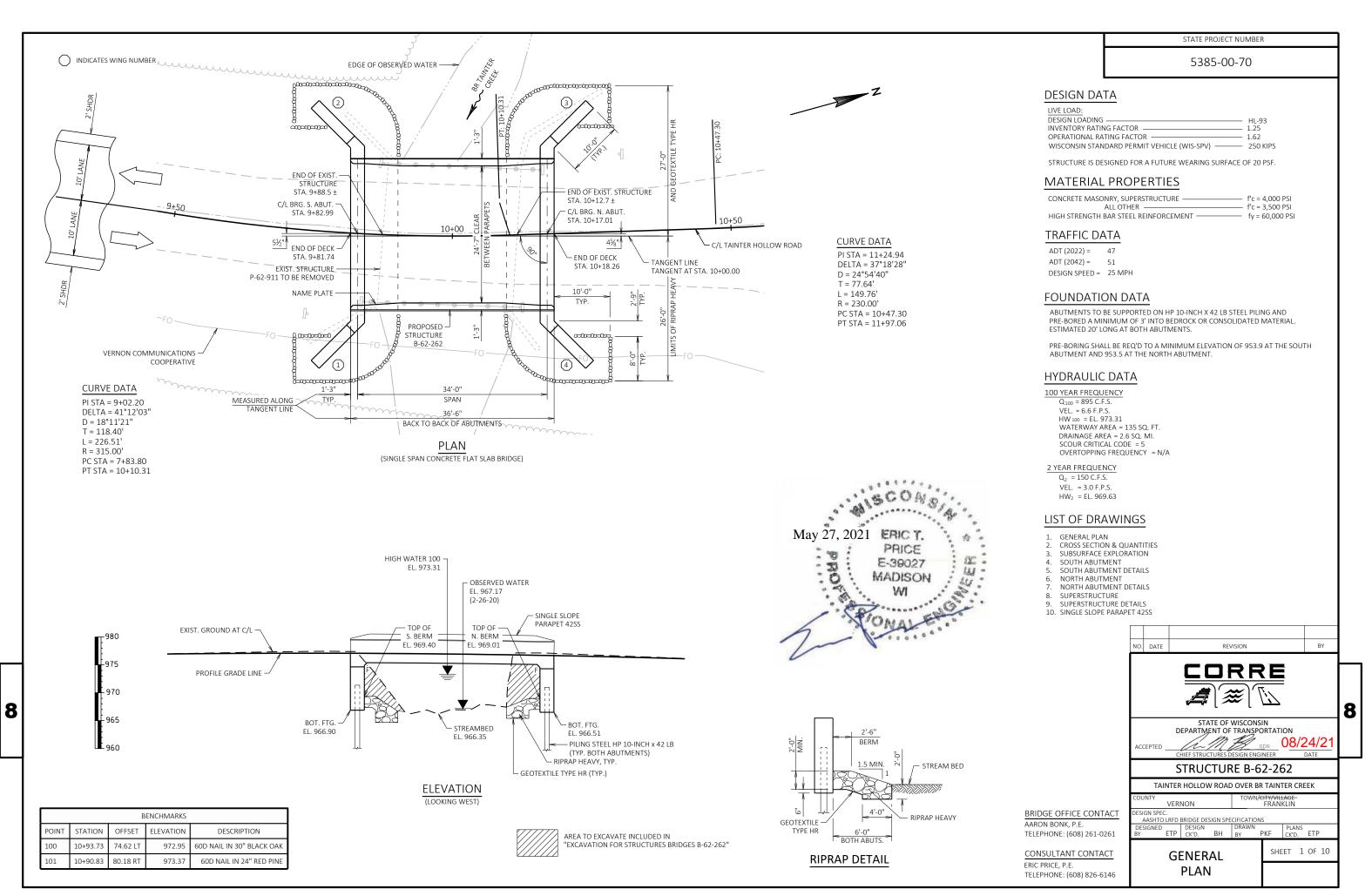
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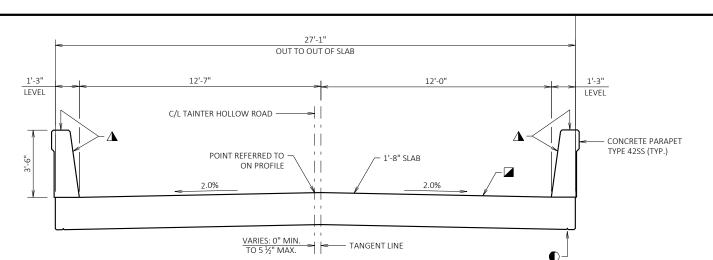
PLATE NO. R11-3C.3

SHEET NO:

PROJECT NO:







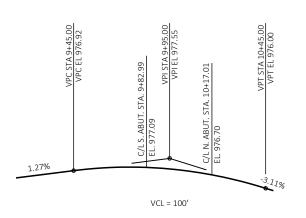
CROSS SECTION THRU BRIDGE

(LOOKING NORTH)

3/4" V-GROOVE REQ'D. EXTEND 6" FROM F.F. OF ABUTMENT BODY.

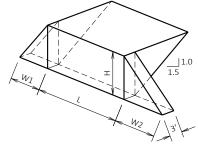
COAT WITH "PROTECTIVE SURFACE TREATMENT" AS PER THE STANDARD SPECIFICATIONS.

△ COAT WITH "PIGMENTED SURFACE SEALER" AS PER THE STANDARD SPECIFICATIONS.



PROFILE GRADE LINE

(TAINTER HOLLOW ROAD)



ABUTMENT BACKFILL DIAGRAM

= LENGTH OF ABUTMENT BODY BETWEEN WINGS AT B.F. (FT)

= AVERAGE ABUTMENT FILL HEIGHT (FT)

= EXPANSION FACTOR (1.20 FOR CY BID ITEMS AND 1.00 FOR TON BID ITEMS)

 $V_{CF} = (L)(3.0')(H) + (L)(0.5)(1.5H)(H) + (3.0' \times 0.5)(W1+W2)(H)$

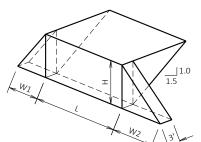
 $V_{CY} = V_{CF}(EF)/27$

TOTAL ESTIMATED QUANTITIES

8

LEGEND

BID NUMBER	BID ITEM	UNIT	SOUTH ABUT	NORTH ABUT	SUPER	TOTALS
203.0260	REMOVING STRUCTURE OVER WATERWAY MINIMAL DEBRIS P-62-911	EACH				1
206.1000	EXCAVATION FOR STRUCTURES BRIDGES B-62-262	LS				1
210.1500	BACKFILL STRUCTURE TYPE A	TON	225	225		450
502.0100	CONCRETE MASONRY BRIDGES	CY	37	37	76	150
502.3200	PROTECTIVE SURFACE TREATMENT	SY			100	100
502.3210	PIGMENTED SURFACE SEALER	SY			36	36
505.0400	BAR STEEL REINFORCEMENT HS STRUCTURES	LB	2,290	2,290		4,580
505.0600	BAR STEEL REINFORCEMENT HS COATED STRUCTURES	LB	1,590	1,590	13,710	16,890
516.0500	RUBBERIZED MEMBRANE WATERPROOFING	SY	6	6		12
550.0020	PRE-BORING ROCK OR CONSOLIDATED MATERIALS	LF	91	91		182
550.1100	PILING STEEL HP 10-INCH X 42 LB	LF	130	130		260
606.0300	RIPRAP HEAVY	CY	65	65		130
612.0406	PIPE UNDERDRAIN WRAPPED 6-INCH	LF	95	95		190
645.0111	GEOTEXTILE TYPE DF SCHEDULE A	SY	49	49		98
645.0120	GEOTEXTILE TYPE HR	SY	85	85		170
	NON-BID ITEMS					
	FILLER	SIZE				1∠" & 3∠"



W1 = WING 1 LENGTH (FT)

W2 = WING 2 LENGTH (FT)

 $V_{TON} = V_{CF}(2.0)$

GENERAL NOTES

DRAWINGS SHALL NOT BE SCALED.

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

STATE PROJECT NUMBER 5385-00-70

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

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

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

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

THE UPPER LIMITS OF "EXCAVATION FOR STRUCTURES BRIDGES B-62-262" SHALL BE THE EXISTING

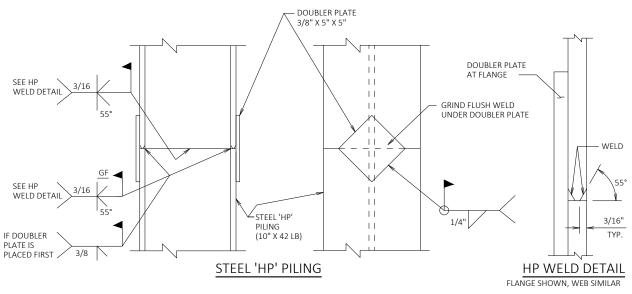
PIGMENTED SURFACE SEALER SHALL BE APPLIED TO THE ENTIRE INSIDE FACE AND TOP SURFACE OF THE

THE EXISTING STRUCTURE P-62-911, TO BE REMOVED, IS A SINGLE SPAN STEEL DECK GIRDER BRIDGE, 24.2 FT. LONG WITH A 25.0 FT. CLEAR ROADWAY WIDTH.

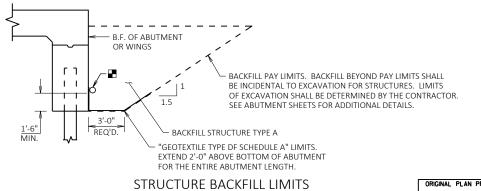
THE BACKELL QUANTITIES ARE BASED ON THE PAYLIMITS SHOWN ON THE PLANS AND MAY NOT REFLECT ACTUAL PLACED QUANTITIES. "BACKFILL STRUCTURE TYPE A" REQUIRED DIRECTLY BEHIND ABUTMENTS AND ABUTMENT WINGS FOR 3 FEET. BACKFILL PLACED BEYOND PAY LIMITS OR EXCEEDING PLAN QUANTITIES SHALL BE INCIDENTAL TO EXCAVATION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

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

DO NOT PLACE FILL ABOVE 3'-0" FROM THE BOTTOM OF ABUTMENT UNTIL THE SUPERSTRUCTURE IS IN PLACE.



PILE SPLICE DETAILS



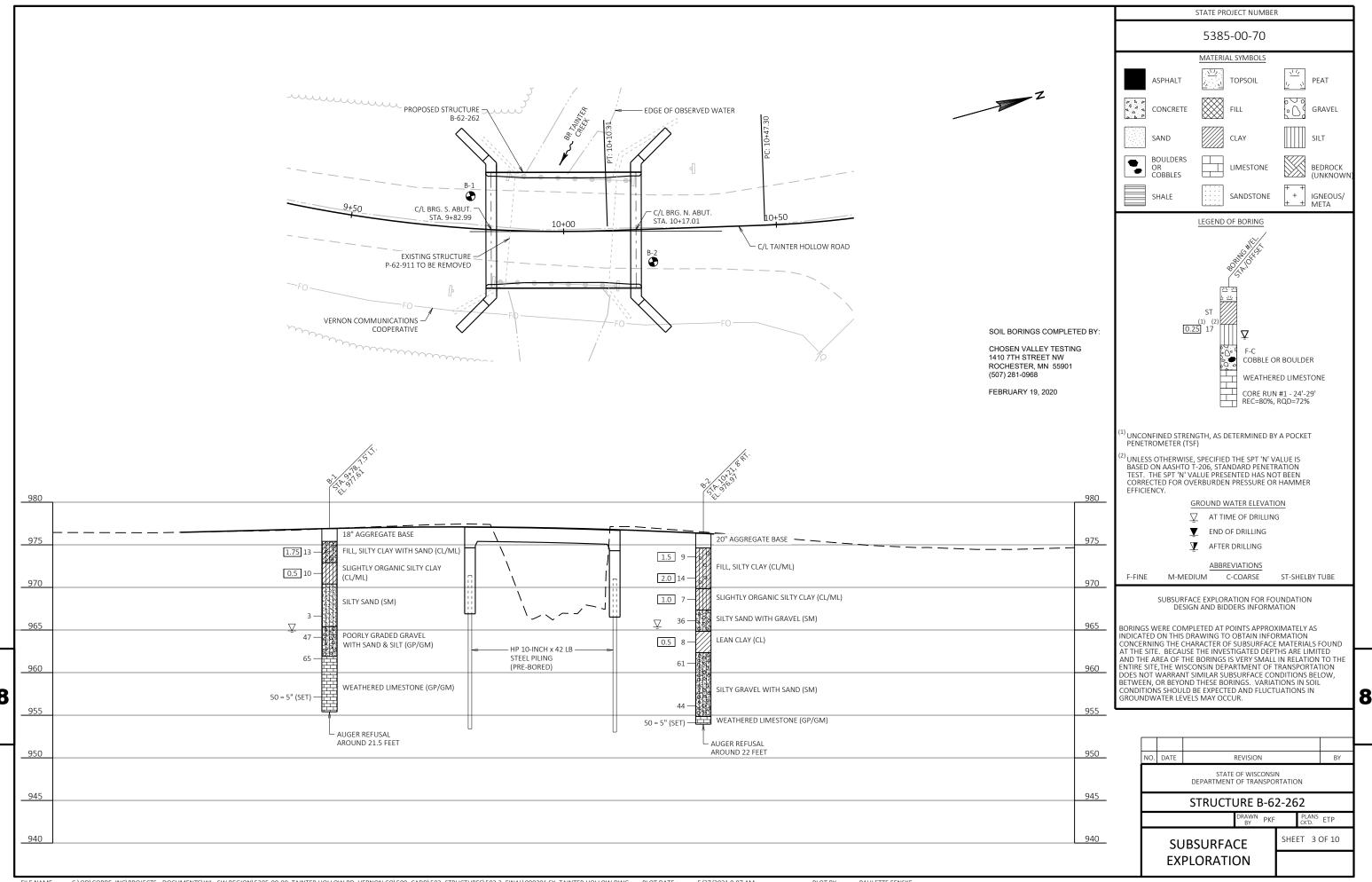
PIPE UNDERDRAIN WRAPPED (6-INCH). SLOPE 0.5% MIN. TO SUITABLE DRAINAGE. ATTACH RODENT SHIELD AT ENDS OF PIPE UNDERDRAIN.

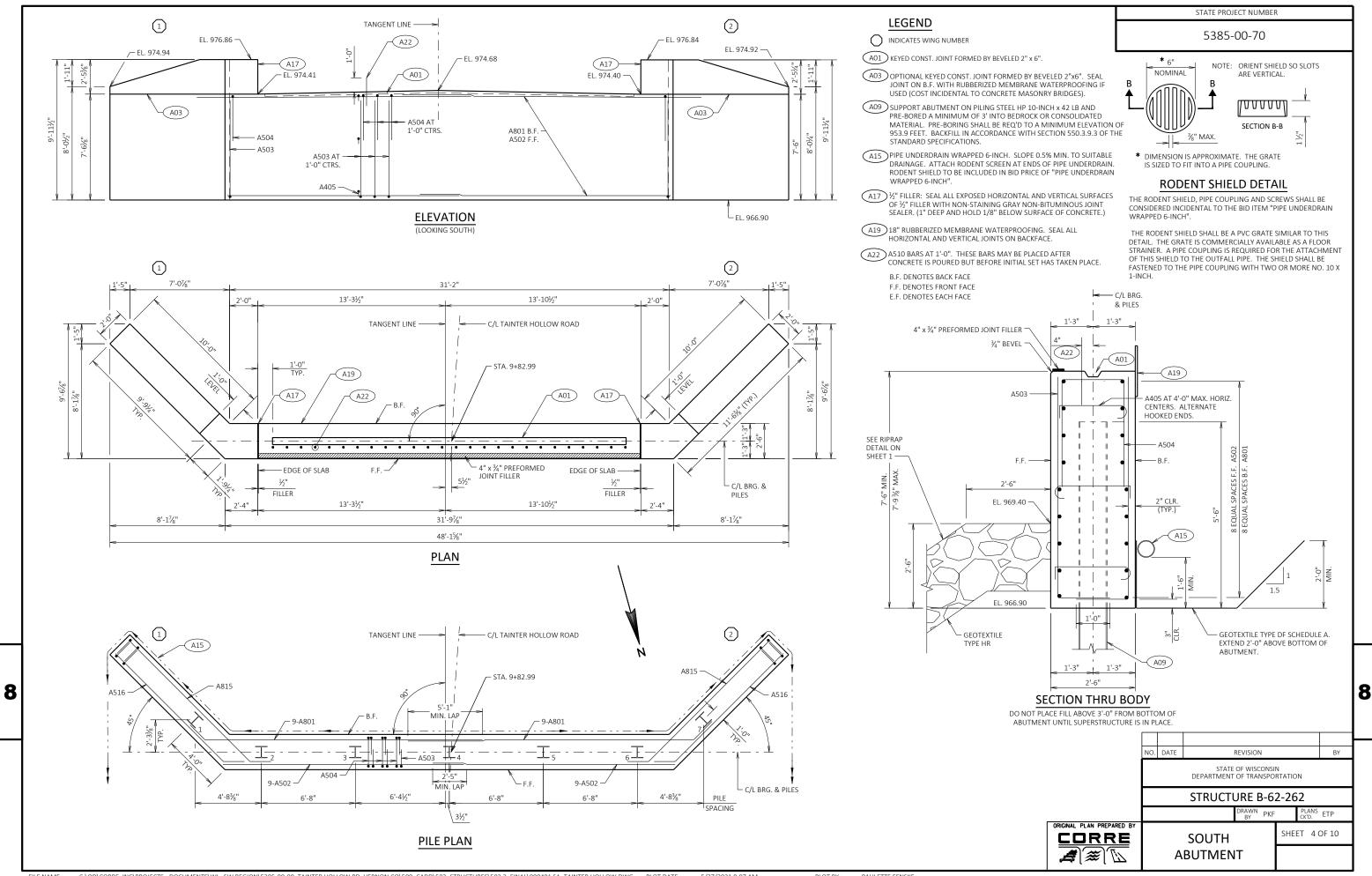
ORIGINAL PLAN PREPARED B CORRE

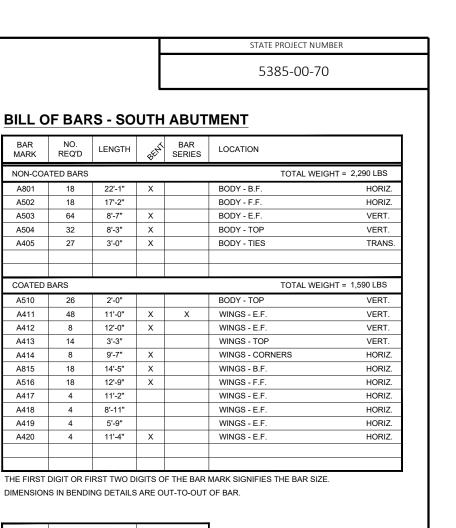
NO. DATE REVISION STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION STRUCTURE B-62-262 PLANS ETP SHEET 2 OF 10 **CROSS SECTION** & QUANTITIES

8

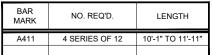
C:\OD\CORRE, INC\PROJECTS - DOCUMENTS\WI - SW REGION\5385-00-00_TAINTER HOLLOW RD_VERNON CO\500_CADD\503_STRUCTURES\503.3_FINAL\080201 CS_TAINTER HOLLOW.DWG PLOT DATE : PAULETTE FENSKE







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



LENGTH

22'-1"

17'-2"

8'-7"

8'-3"

3'-0"

2'-0"

11'-0"

12'-0"

3'-3"

9'-7"

14'-5"

12'-9"

11'-2"

8'-11"

5'-9"

11'-4"

Х

REQ'D

18

32

26

48

18

18

NON-COATED BARS

MARK

A801

A502

A503

A504

A405

A510

A414

A815

A516

A417

A418

A419

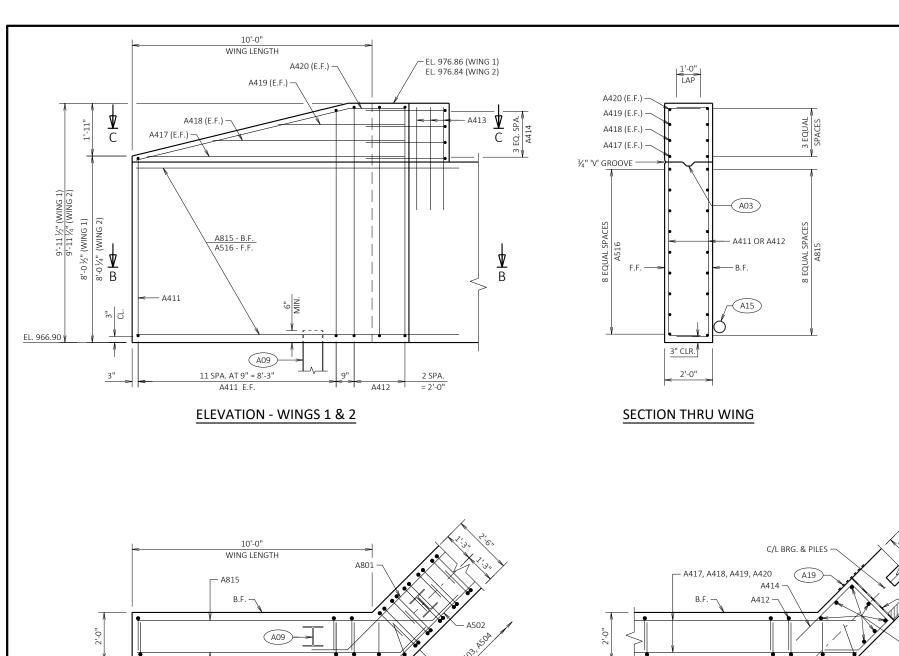
A420

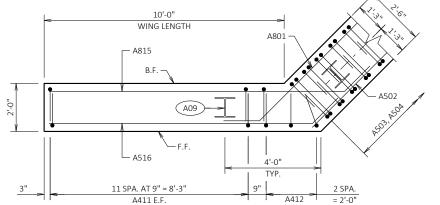
COATED BARS

BUNDLE AND TAG EACH SERIES SEPARATELY.

LEGEND

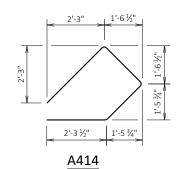
AXX FOR SYMBOL DESCRIPTIONS SEE SHEET 4.





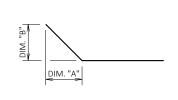
SECTION B-B

A504

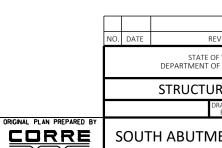


A411 E.F.

SECTION C-C



BAR	DIM. "A"	DIM. "B"
A801	1'-0 3/4"	1'-0 3/4"
A815	1'-0 3/4"	1'-0 3/4"
A516	1'-0 3/4"	1'-0 3/4"
A420	8'-10"	1'-11"



REVISION STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION STRUCTURE B-62-262 PLANS CK'D. ETP SHEET 5 OF 10 **SOUTH ABUTMENT DETAILS**

8

A412

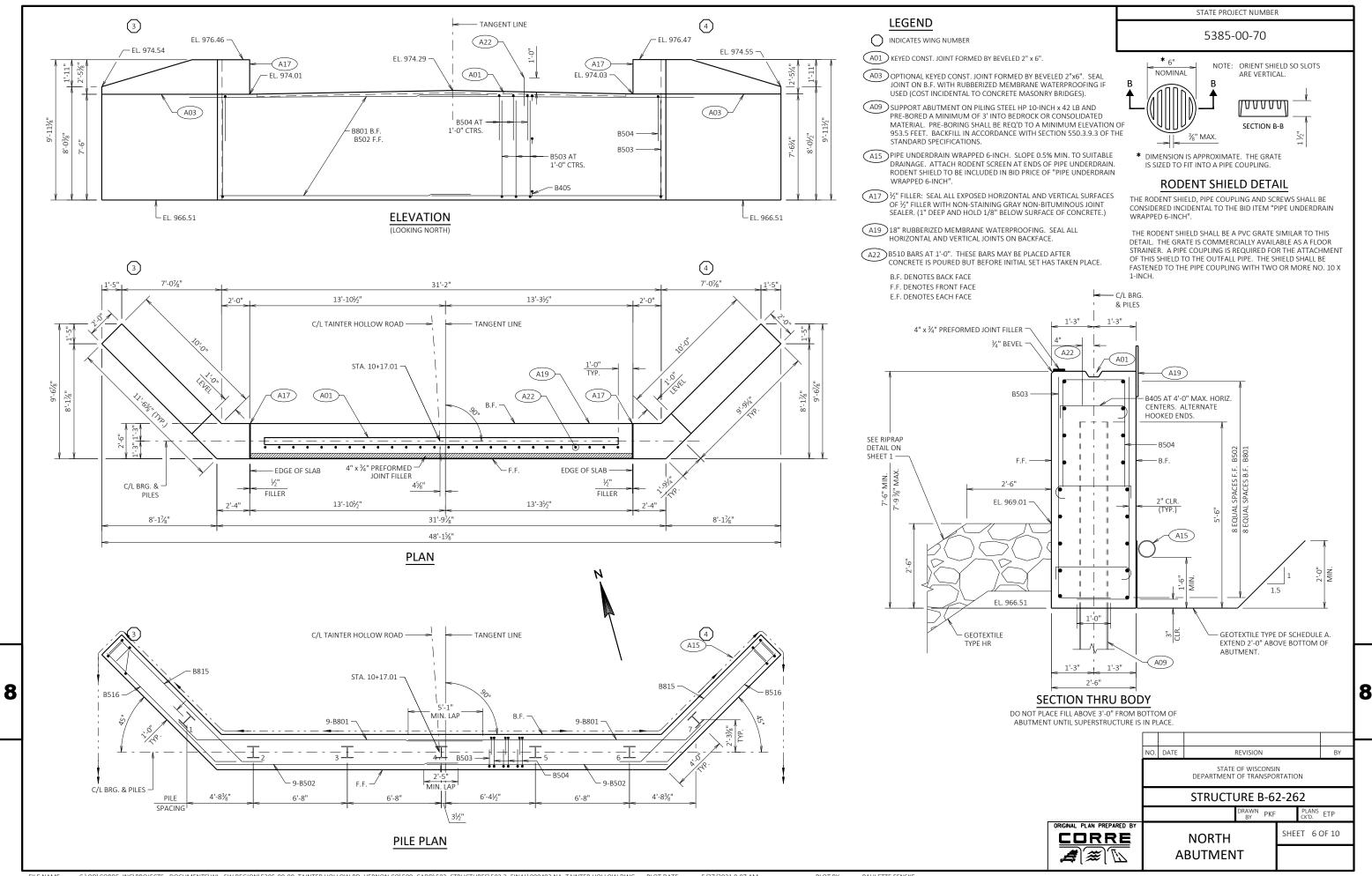
A503

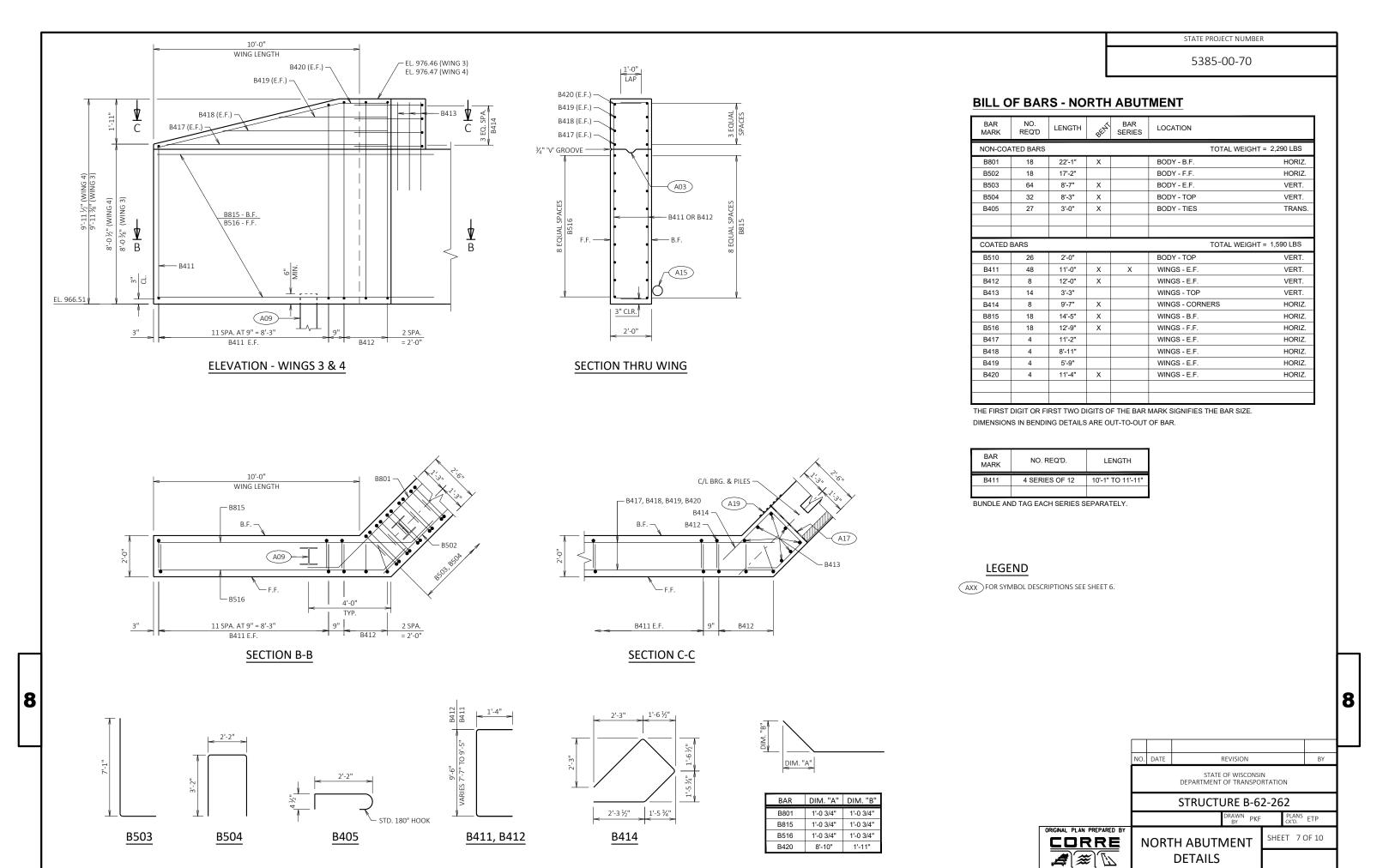
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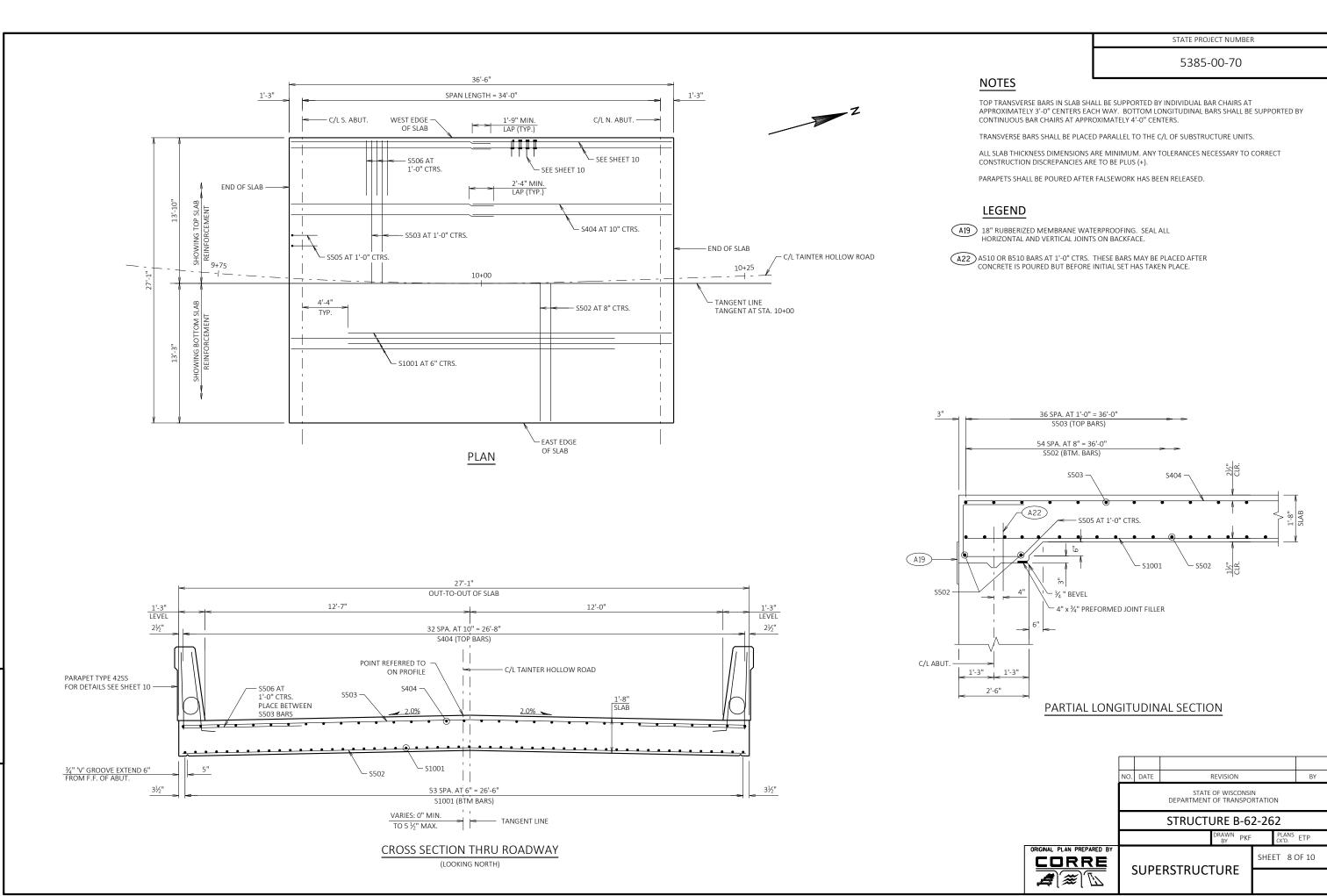
A405

STD. 180° HOOK

A411, A412



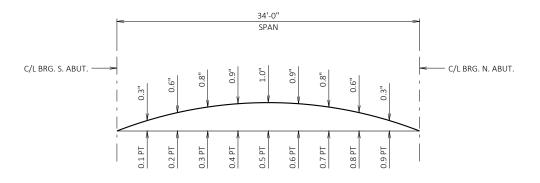




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8

5385-00-70



CAMBER DIAGRAM

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

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

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

TOP OF SLAB ELEVATION AT FINAL GRADE

LESS SLAB THICKNESS

LUS CAMBER

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

EQUALS TOP OF SLAB FALSEWORK ELEVATION.

TOP OF DECK ELEVATIONS

LOCATION	C/L OF S. ABUT.	0.1	0.2	0.3	0.4	0.5	0.6	0.7	0.8	0.9	C/L OF N. ABUT.
WEST EDGE OF SLAB	976.84	976.82	976.80	976.77	976.74	976.70	976.66	976.62	976.57	976.51	976.46
TANGENT LINE / CROWN	977.10	977.08	977.05	977.02	976.99	976.96	976.91	976.87	976.82	976.77	976.71
EAST EDGE OF SLAB	976.86	976.84	976.81	976.78	976.75	976.72	976.67	976.63	976.58	976.53	976.47

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

SURVEY TOP OF SLAB ELEVATIONS

SPAN POINT	S. ABUT.	0.5	N. ABUT.	
WEST EDGE OF SLAB				
CROWN				
EAST EDGE OF SLAB				

PRIOR TO RELEASING SLAB FALSEWORK, TAKE TOP OF SLAB ELEVATIONS AT THE C/L OF ABUTMENTS 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.

BILL OF BARS - SUPERSTRUCTURE

BAR MARK	NO. REQ'D	LENGTH	BEN	BAR SERIES	LOCATION	
COATED BARS TOTAL WEIGHT = 13,710 LBS						
S1001	54	30'-9"			SLAB - BTM	LONGIT.
S502	59	26'-9"			SLAB - BTM	TRANS.
S503	37	26'-9"			SLAB - TOP	TRANS.
S404	66	19'-3"			SLAB - TOP	LONGIT.
S505	56	8'-3"	Х		SLAB - AT ABUTMENTS	VERT.
S506	72	5'-0"			SLAB - EDGES	TRANS.
S510	58	4'-5"	Х		PARAPETS	VERT.
S511	58	6'-8"	Х		PARAPETS	VERT.
S512	44	2'-9"	Х		PARAPETS	VERT.
S513	68	4'-4"	Х		PARAPETS	VERT.
S514	20	6'-5"	Х		PARAPETS	VERT.
S515	24	6'-6"	Х		PARAPETS	VERT.
S516	4	10'-6"	Х		PARAPETS	HORIZ.
S517	20	19'-0"			PARAPETS	HORIZ.
S518	24	5'-5"	Х	Х	PARAPETS	VERT.
S519	8	10'-5"	Х		PARAPETS	HORIZ.
S520	6	18'-6"			PARAPETS	HORIZ.

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

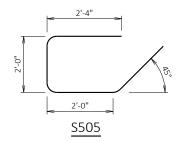
DIMENSIONS IN BENDING DETAILS ARE OUT-TO-OUT OF BAR

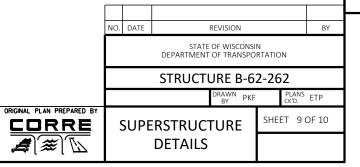
SEE SHEET 10 FOR PARAPET REINFORCEMENT.

BAR SERIES TABLE

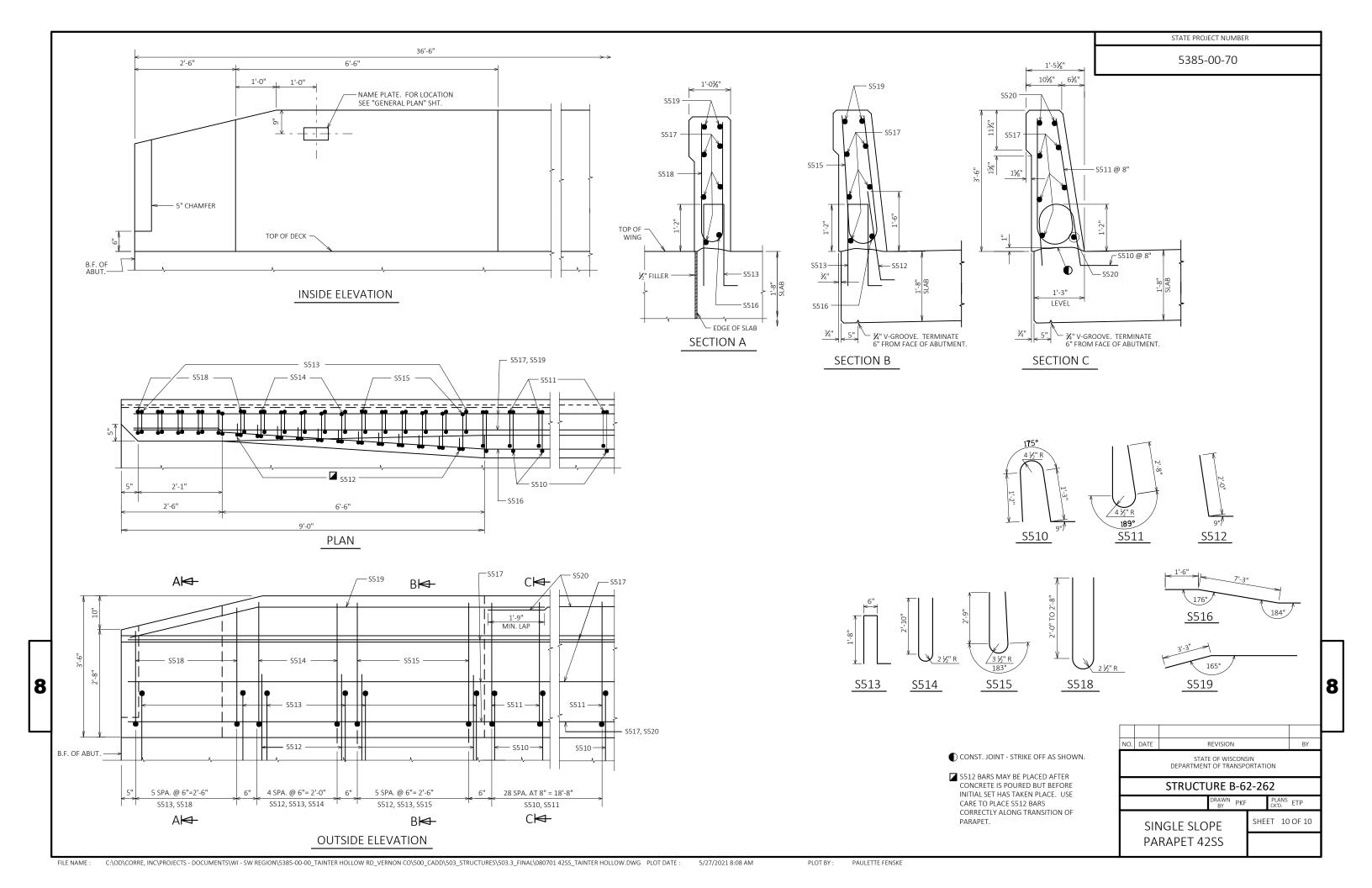
BAR MARK	NO. REQ'D.	LENGTH			
S518	4 SERIES OF 6	4'-9" TO 6'-1"			

BUNDLE AND TAG EACH SERIES SEPARATELY.





8



TAINTER HOLLOW RD

	AREA (SF)		INCREMENTAL VOL (CY) (UNADJUSTED)			CUMULATIVE VOL (CY)				
STATION	DISTANCE	сит	SALVAGED/UNUSABLE PAVEMENT MATERIAL	FILL	CUT	SALVAGED/UNUSABLE PAVEMENT MATERIAL NOTE 2	FILL NOTE 3	CUT 1.00 NOTE 1	EXPANDED FILL 1.25	MASS ORDINATE
9+10	0.00	20.47	0.00	3.05	0	0	0	0	0	0
9+25	15.00	22.97	0.00	2.73	12	0	2	12	3	10
9+50	25.00	18.74	0.00	3.80	19	0	3	31	6	25
9+75	25.00	39.48	0.00	0.00	27	0	2	58	9	49
9+78.7	3.70	40.78	0.00	0.00	5	0	0	36	9	54
STRUCTURE B-62-0262										
10+21.4	0.00	50.59	0.00	0.00	0	0	0	36	9	0
10+25	3.60	56.13	0.00	0.00	7	0	0	43	9	7
10+50	25.00	22.02	0.00	0.00	40	0	0	76	9	47

TOTALS 110 0 7

NOTES:

1 - CUT

2 - SALVAGED/UNUSABLE PAVEMENT MATERIAL

3 - FILL

4 - MASS ORDINATE

CUT INCLUDES SALVAGED/UNUSABLE PAVEMENT MATERIAL

THIS DOES NOT SHOW UP IN CROSS SECTIONS

DOES NOT INCLUDE UNUSABLE PAVEMENT EXC VOLUME

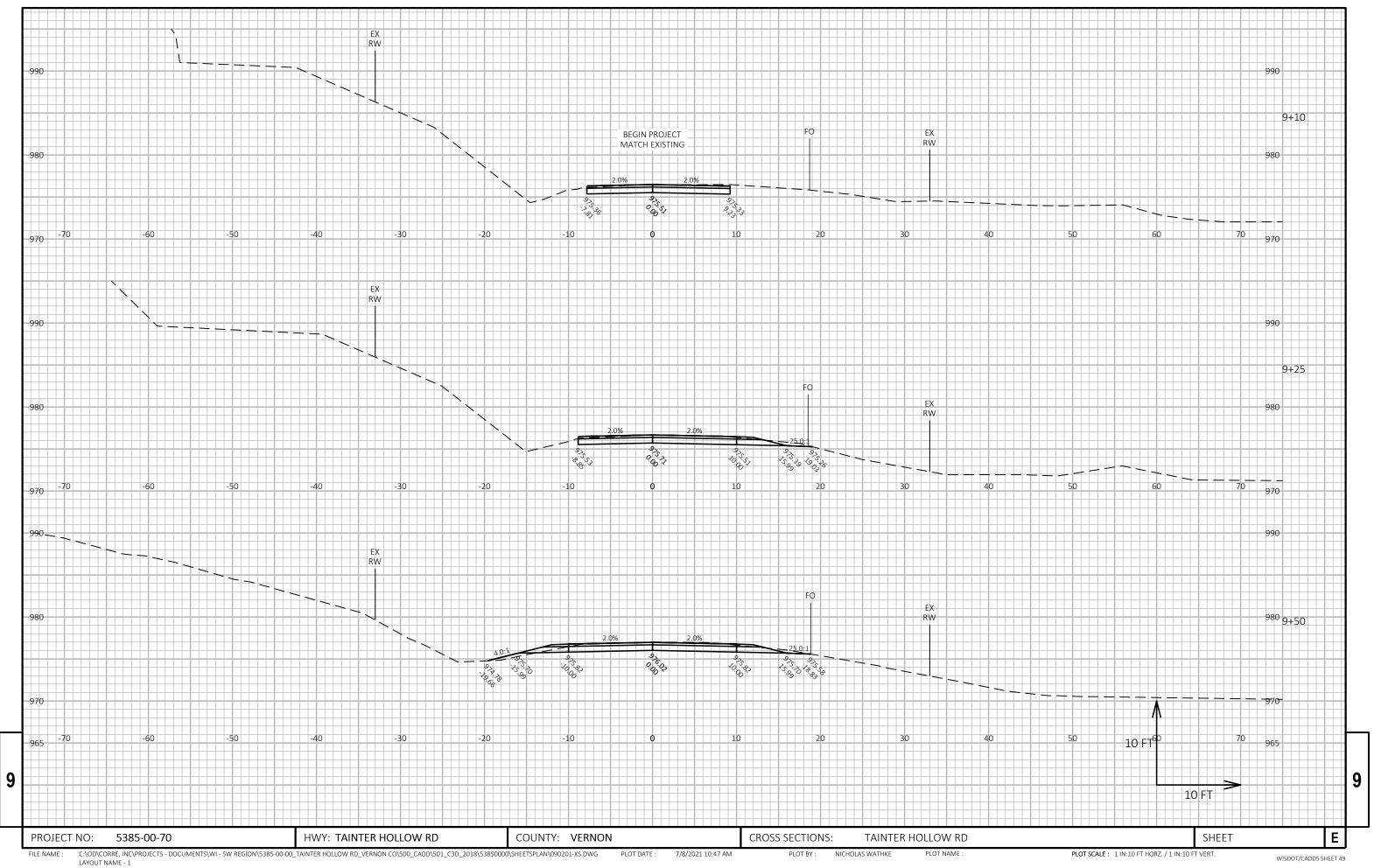
THE MASS ORDINATE + OR - QTY CALCULATED FOR THE DIVISION. PLUS QUANTITY INDICATES AN EXCESS OF MATERIAL WITHIN THE DIVISION. MINUS INDICATES A SHORTAGE OF MATERIAL WITHIN THE DIVISION.

9

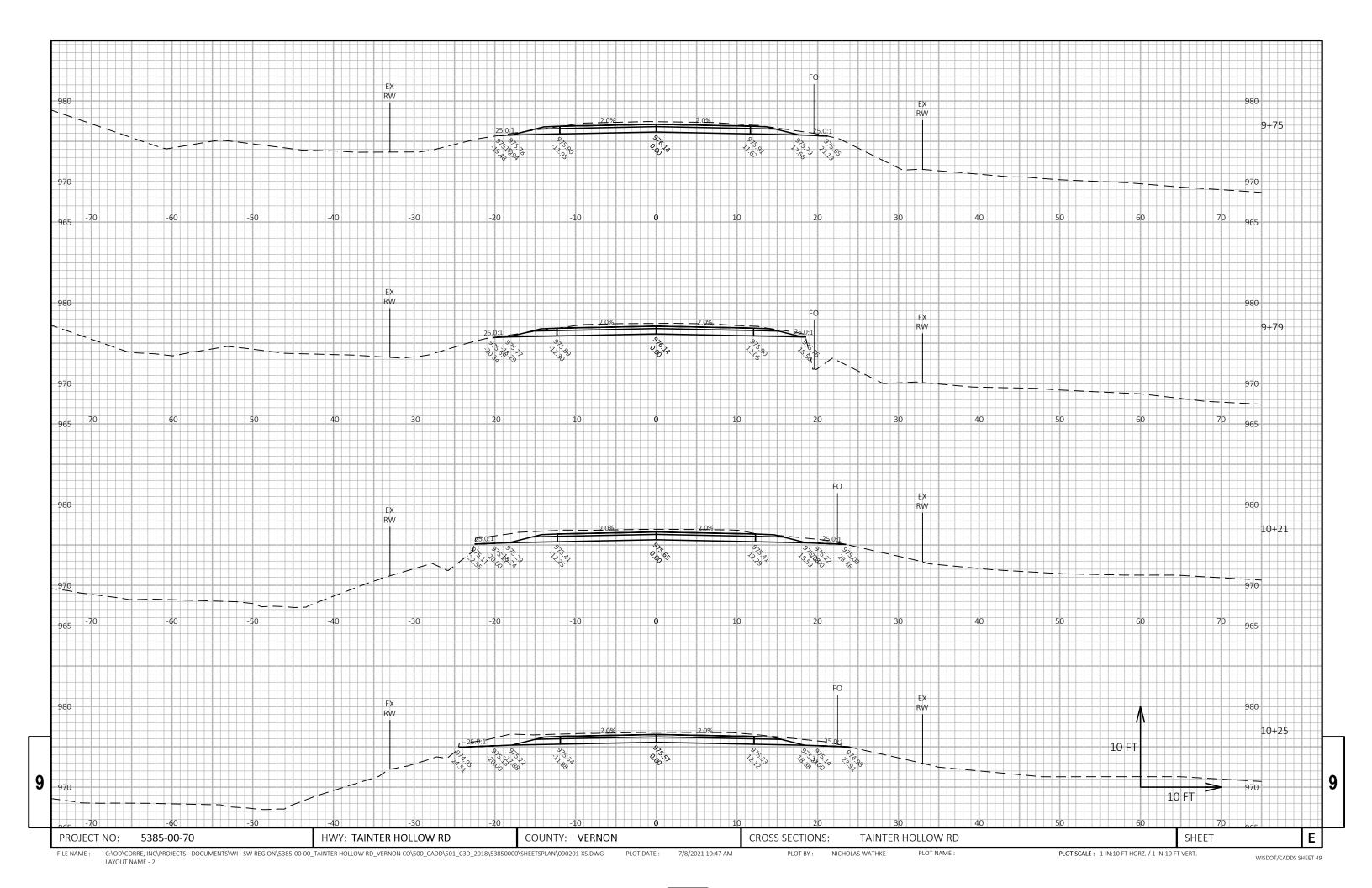
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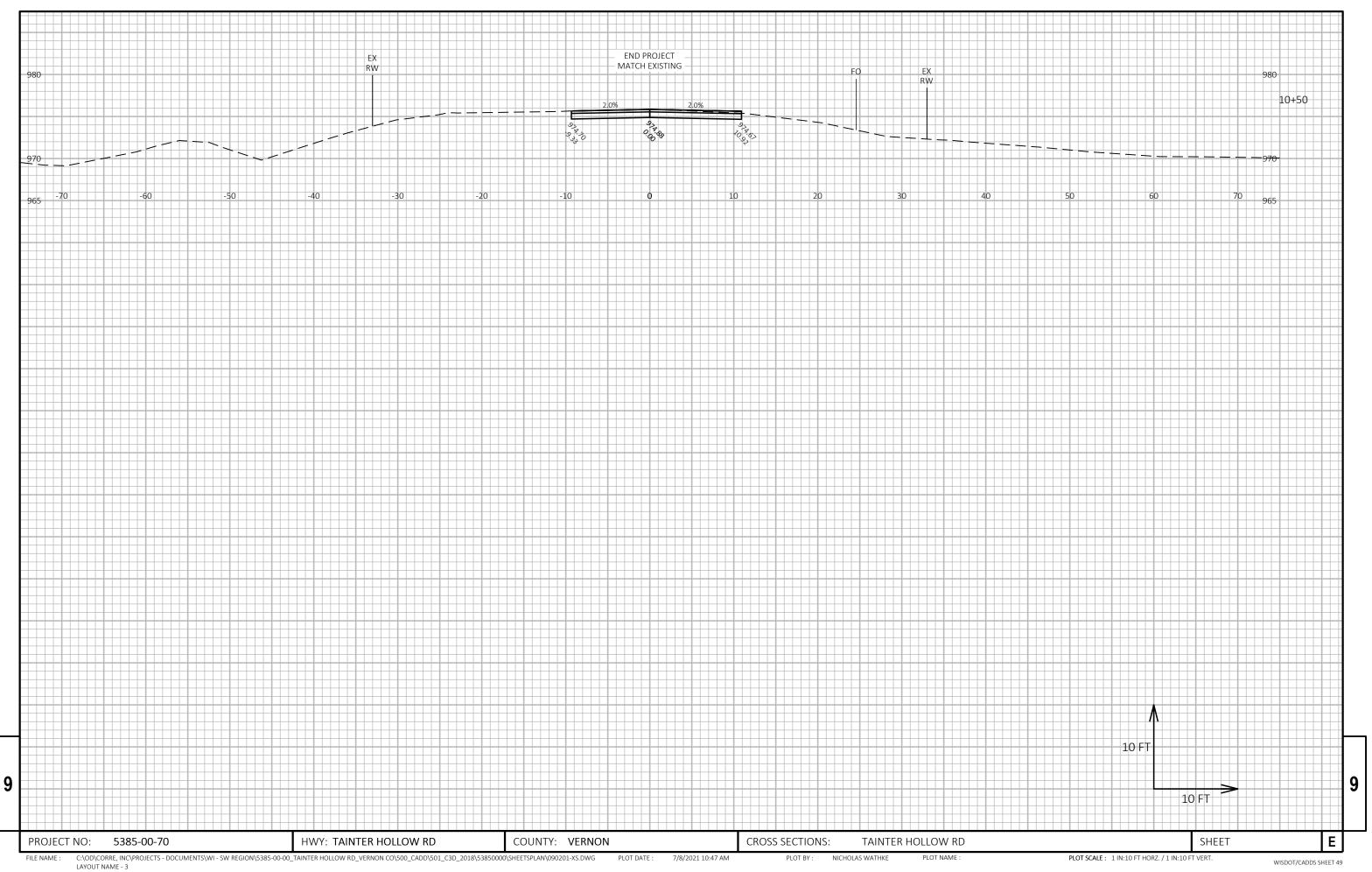
PROJECT NO: 5385-00-70 HWY: TAINTER HOLLOW RD COUNTY: VERNON EARTHWORK QUANTITIES SHEET **E**

PLOT DATE: 6/2/2021 PLOT BY: CORRE, INC. PLOT NAME: PLOT SCALE 1:1



LAYOUT NAME - 1





LAYOUT NAME - 3



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