DECEMBER 2025

Section No.

Section No. Section No.

Section No. Section No.

Section No.

Section No.

ORDER OF SHEETS

Estimate of Quantities

Right of Way Plat

Miscellaneous Quantities

Standard Detail Drawings

Computer Earthwork Data

Plan and Profile (Includes Erosion Control)

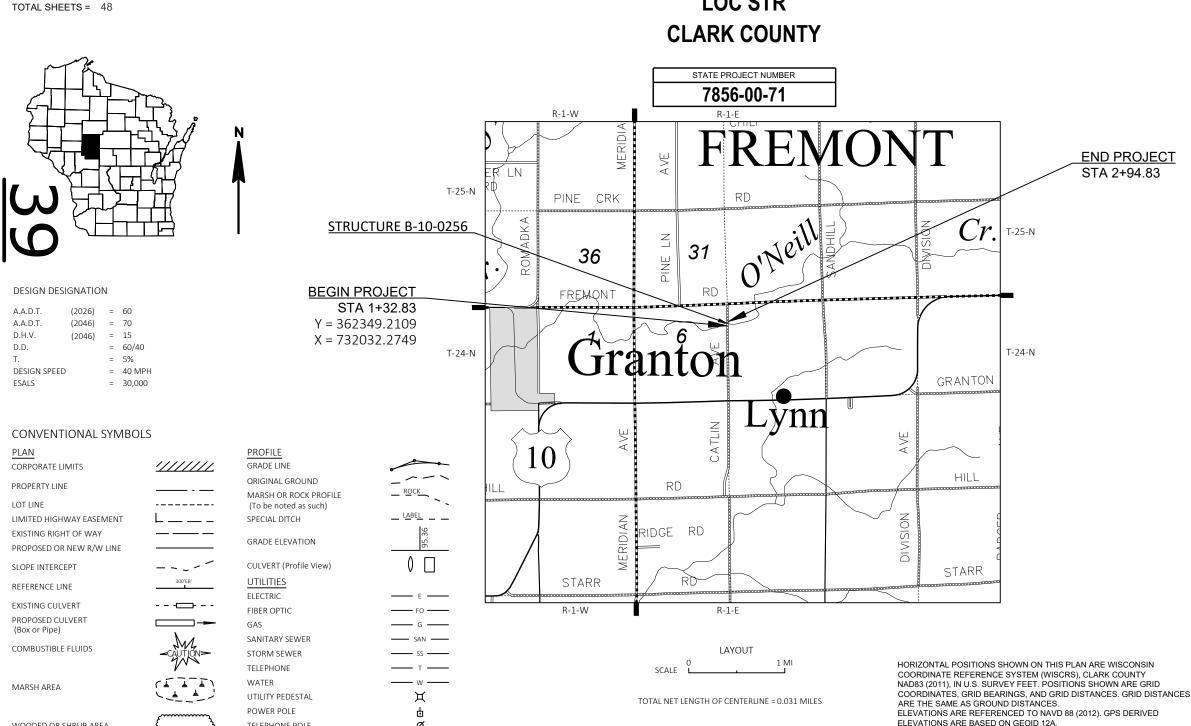
STATE OF WISCONSIN **DEPARTMENT OF TRANSPORTATION**

PLAN OF PROPOSED IMPROVEMENT

T LYNN, CATLIN AVENUE

S BR O'NEILL CREEK BRIDGE B-10-0256

LOC STR



ACCEPTED FOR TOWN OF LYNN STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION PREPARED BY AECOM Surveyor Designer Project Manage

7/30/2025

FEDERAL PROJECT

PROJECT WISC2026089 CONTRACT

STATE PROJECT

7856-00-71

WOODED OR SHRUB AREA

Ø

TELEPHONE POLE

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.

THE CONTRACTOR SHALL NOTIFY DIGGERS HOTLINE AND AFFECTED UTILITIES PRIOR TO THE START OF WORK. ANY LOCAL MUNICIPAL UTILITY WHICH IS NOT A MEMBER OF DIGGERS HOTLINE MUST BE CONTACTED SEPARATELY.

RIGHT OF WAY INFORMATION, AS SHOWN ON THE PLANS, IS APPROXIMATE.

RADII, ELEVATIONS, AND DIMENSIONS ARE GIVEN AT THE PAVEMENT EDGES, UNLESS OTHERWISE NOTED IN THE PLANS.

DISTURBED AREAS WITHIN THE RIGHT-OF-WAY, EXCEPT THE AREAS WITHIN THE FINISHED SHOULDER POINTS, SHALL BE FERTILIZED, AND SEEDED.

CATLIN AVENUE WILL BE CLOSED DURING CONSTRUCTION. USE THE SDD "BARRICADES AND SIGNS FOR MAINLINE CLOSURES" TO CLOSE CATLIN AVENUE AT FREMONT ROAD AND US HWY 10.

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

MATERIALS UNIT WEIGHT

MATERIAL	UNIT WEIGHT
BASE AGGREGATE DENSE 3/4-INCH	2.1 TON/CY
BASE AGGREGATE DENSE 1 1/4-INCH	2.0 TON/CY

RUNOFF COEFFICIENT TABLE

		HYDROLOGIC SOIL GROUP											
		А		В			С			D			
	SLOPE	RANGE	(PERCENT)	SLOPE	SLOPE RANGE (PERCENT)		SLOPE	SLOPE RANGE (PERCENT)			SLOPE RANGE (PERCENT)		
LAND USE:	0-2	2-6	6 & OVER	0-2	2-6	6 & OVER	0-2	2-6	6 & OVER	0-2	2-6	6 & OVER	
ROW CROPS	.08	.16 .30	.22 .38	.12	.20 .34	.27 .44	.15	.24 .37	.33 .50	.19	.28 .41	.38 .56	
MEDIAN STRIP- TURF	.19	.20 .26	.24	.19 .25	.22	.26 .33	.20 .26	.23 .30	.30 .37	.20 .27	.25	.30 .40	
SIDE SLOPE- TURF			.25 .32			.27 .34			.28			.30	
PAVEMENT:					ı	•						•	
ASPHALT						.7095							
CONCRETE						.8095							
BRICK						.7080							
DRIVES, WALKS						.7585							
ROOFS						.7595							
GRAVEL ROADS.	SHOULDE	RS			•	.4060		•	•	•			

TOTAL PROJECT AREA = 0.245 ACRES TOTAL AREA EXPECTED TO BE DISTURBED BY CONSTRUCTION ACTIVITIES = 0.224 ACRES

PROJECT NO:

FILE NAME :

WDNR CONTACT

WISCONSIN DNR BRAD BETTHAUSER 910 HWY 54 E BLACK RIVER FALLS, WI 54615 T: (715) 213-9064 BRADLEY.BETTHAUSER@WISCONSIN.GOV XCEL ENERGY, INC. JOHN KELSER 1400 WESTERN AVE EAU CLAIRE, WI 54703 T: (715) 737-6020 JOHN.KELSER@XCELENERGY.COM

ELECTRIC

LOCAL CONTACT

TOWN OF LYNN BEN KAYHART W1877 US-10 GRANTON, WI 54436 T: (715) 238-8122 INFO@BELKAFURNISHINGS.COM

DESIGN CONTACT

AECOM JAMES RHOAD-DROGALIS 1350 DEMING WAY MIDDLETON, WI 53562 T: (608) 828-8166 JAMES.DROGALIS@AECOM.COM

DESIGN PROJECT MANAGER

TOU YANG 718 W CLAIREMONT AVE EAU CLAIRE, WI 54701 T: (715) 833-5570 TOU.YANG@DOT.WI.GOV



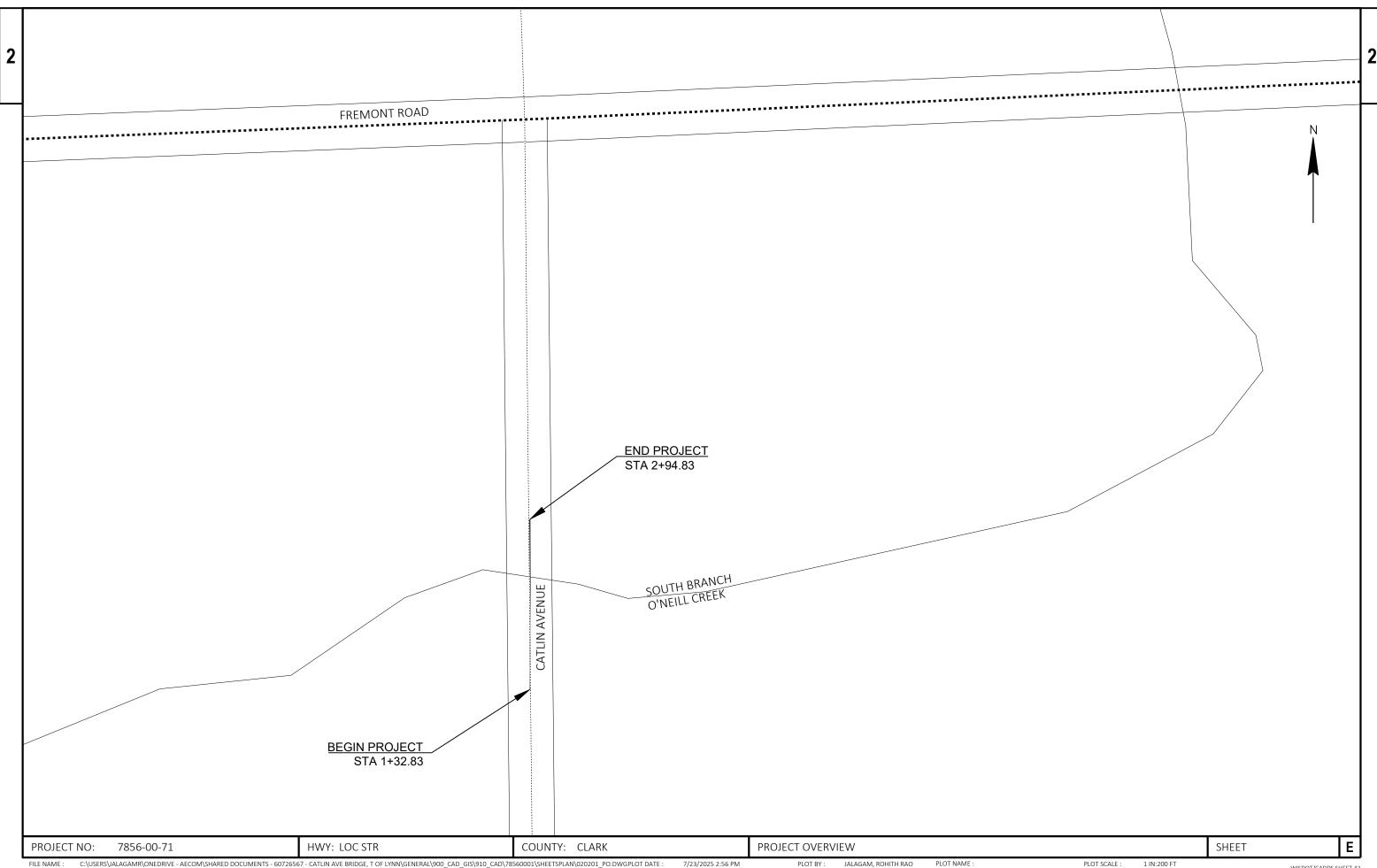
SHEET

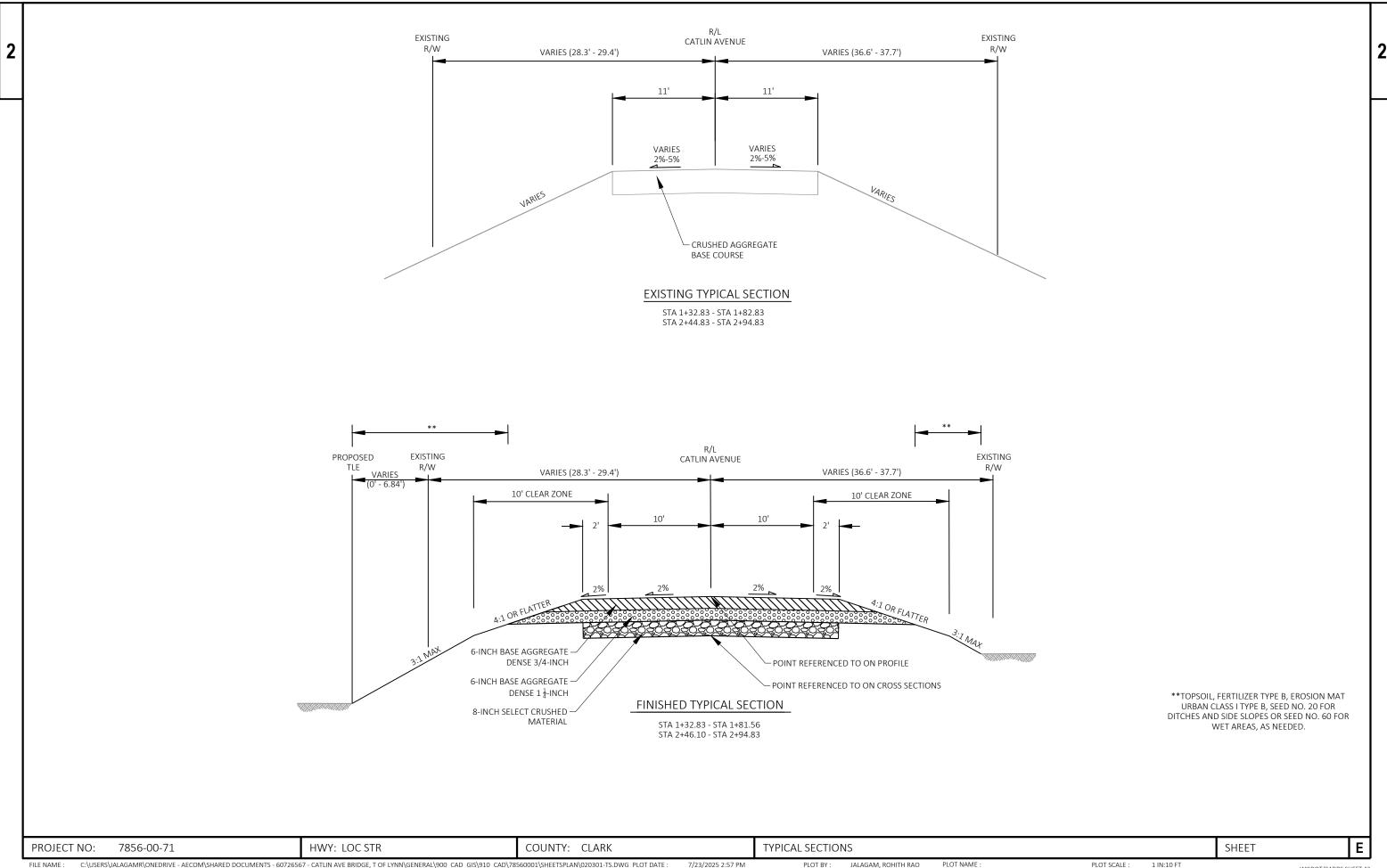
PLOT SCALE :

1 IN:100 FT

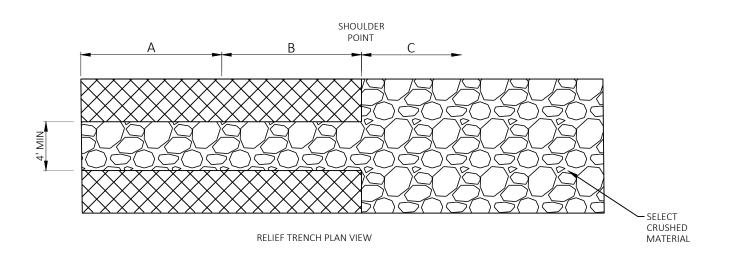
7856-00-71 HWY: LOC STR COUNTY: CLARK **GENERAL NOTES** C:\USERS\JALAGAMR\ONEDRIVE - AECOM\SHARED DOCUMENTS - 60726567 - CATLIN AVE BRIDGE, T OF LYNN\GENERAL\900 CAD GIS\910 CAD\78560001\SHEETSPLAN\020101-GN.DWG PLOT DATE: JALAGAM, ROHITH RAO PLOT NAME LAYOUT NAME - Plan 1 IN 100 FT

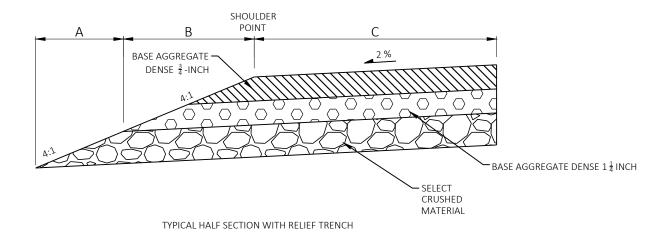
Ε





TYPICAL HALF SECTION WITHOUT RELIEF TRENCH





RELIEF TRENCH

HWY: LOC STR COUNTY: CLARK Ε PROJECT NO: 7856-00-71 CONSTRUCTION DETAILS SHEET

PLOT NAME :

643.5000 Traffic Control

EACH

1.000

1.000

					7856-00-71
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-10-244	EACH	1.000	1.000
8000	204.0170	Removing Fence	LF	80.000	80.000
0010	205.0100	Excavation Common	CY	136.000	136.000
0012	206.1001	Excavation for Structures Bridges (structure) 01. B-10-256	EACH	1.000	1.000
0014	206.5001	Cofferdams (structure) 01. B-10-256	EACH	1.000	1.000
0016	208.0100	Borrow	CY	38.000	38.000
0018	210.1500	Backfill Structure Type A	TON	300.000	300.000
0020	213.0100	Finishing Roadway (project) 01. 7856-00-71	EACH	1.000	1.000
0022	305.0110	Base Aggregate Dense 3/4-Inch	TON	113.000	113.000
0024	305.0120	Base Aggregate Dense 1 1/4-Inch	TON	126.000	126.000
0026	312.0110	Select Crushed Material	TON	115.000	115.000
0028	502.0100	Concrete Masonry Bridges	CY	178.000	178.000
0030	502.3200	Protective Surface Treatment	SY	270.000	270.000
0032	502.9000.S	Underwater Substructure Inspection (structure) 01. B-10-256	EACH	1.000	1.000
0034	505.0400	Bar Steel Reinforcement HS Structures	LB	5,470.000	5,470.000
0036	505.0600	Bar Steel Reinforcement HS Coated Structures	LB	22,380.000	22,380.000
0038	506.0105	Structural Steel Carbon	LB	530.000	530.000
0040	513.4061	Railing Tubular Type M	LF	134.000	134.000
0042	516.0500	Rubberized Membrane Waterproofing	SY	12.000	12.000
0044	550.0500	Pile Points	EACH	6.000	6.000
0046	550.1100	Piling Steel HP 10-Inch X 42 Lb	LF	540.000	540.000
0048	606.0300	Riprap Heavy	CY	105.000	105.000
0050	612.0406	Pipe Underdrain Wrapped 6-Inch	LF	120.000	120.000
0052	618.0100	Maintenance and Repair of Haul Roads (project) 01. 7586-00-71	EACH	1.000	1.000
0054	619.1000	Mobilization	EACH	1.000	1.000
0056	624.0100	Water	MGAL	3.600	3.600
0058	625.0100	Topsoil	SY	441.000	441.000
0060	628.1504	Silt Fence	LF	214.000	214.000
0062	628.1520	Silt Fence Maintenance	LF	214.000	214.000
0064	628.1905	Mobilizations Erosion Control	EACH	3.000	3.000
0066	628.1910	Mobilizations Emergency Erosion Control	EACH	3.000	3.000
0068	628.2008	Erosion Mat Urban Class I Type B	SY	441.000	441.000
0070	628.6005	Turbidity Barriers	SY	155.000	155.000
0072	628.7504	Temporary Ditch Checks	LF	50.000	50.000
0074	629.0210	Fertilizer Type B	CWT	0.500	0.500
0076	630.0120	Seeding Mixture No. 20	LB	10.000	10.000
0078	630.0160	Seeding Mixture No. 60	LB	3.000	3.000
0800	630.0500	Seed Water	MGAL	8.800	8.800
0082	634.0612	Posts Wood 4x6-Inch X 12-FT	EACH	4.000	4.000
0084	637.2230	Signs Type II Reflective F	SF	12.000	12.000
0086	638.2602	Removing Signs Type II	EACH	4.000	4.000
0088	638.3000	Removing Small Sign Supports	EACH	4.000	4.000
0090	642.5001	Field Office Type B	EACH	1.000	1.000
0092	643.0420	Traffic Control Barricades Type III	DAY	1,188.000	1,188.000
0094	643.0705	Traffic Control Warning Lights Type A	DAY	1,848.000	1,848.000
0096	643.0900	Traffic Control Signs	DAY	924.000	924.000
0000	0.40.5000	T	5	4.000	4.000

Estimate Of Quantities

7856-00-71

_	_
Page	シ

Line	Item	Item Description	Unit	Total	Qty
0100	645.0111	Geotextile Type DF Schedule A	SY	60.000	60.000
0102	645.0120	Geotextile Type HR	SY	180.000	180.000
0104	650.4500	Construction Staking Subgrade	LF	98.000	98.000
0106	650.5000	Construction Staking Base	LF	98.000	98.000
0108	650.6501	Construction Staking Structure Layout (structure) 01. B-10-256	EACH	1.000	1.000
0110	650.9911	Construction Staking Supplemental Control (project) 01. 7586-00-71	EACH	1.000	1.000
0112	650.9920	Construction Staking Slope Stakes	LF	98.000	98.000
0114	715.0502	Incentive Strength Concrete Structures	DOL	1,068.000	1,068.000
0116	999.2000.S	Installing and Maintaining Bird Deterrent System (station) 01. 2+13	EACH	1.000	1.000
0118	ASP.1T0A	On-the-Job Training Apprentice at \$5.00/HR	HRS	300.000	300.000
0120	ASP.1T0G	On-the-Job Training Graduate at \$5.00/HR	HRS	300.000	300.000
0122	SPV.0195	Special 501. Select Crushed Material for Travel Corridor	TON	14.000	14.000

CLEARING AND GRUBBING

REMOVING FENCE

			201.0105	201.0205	
			CLEARING	GRUBBING	
STATION	-	STATION	STA	STA	
2+61	-	2+75	1	1	_
ROJECT TOT	ΓAL		1	1	_

	204.0170
	REMOVING FENC
CTATION	

STATION	-	STATION	LF	_
1+33	-	2+95	80	
PROJECT TOT	AL		80	

CATEGORY 0030

<u>EARTHWORK</u>

			.0100 EXCAVATION 1)	SALVAGED/UNUSABLE	AVAILABLE		EXPANDED FILL (6)				
DIVISION	FROM/TO STATION	CUT	EBS EXCAVATION	PAVEMENT MATERIAL	MATERIAL	UNEXPANDED FILL	FACTOR 1.25	MASS ORDINATE +/-	WASTE	208.0100 BORROW	COMMENT
		(2)			(5)	FILL	1.25	(7)	WASTE	BURRUW	COMMENT
CATLIN AVE (SOUTH OF BRIDGE)	1+32.83/1+81.56	74	0	0	74	39	49	25	0	0	
CATLIN AVE (NORTH OF BRIDGE)	2+46.10/2+94.83	62	0	0	62	80	100	-38	0	38	
GRAND TOTAL		136	0	0	136	119	149	-13	0	38	
	TOTAL COMMON EXC	1	36								

- (1) COMMON EXCAVATION IS THE SUM OF THE CUT AND EBS EXCAVATION COLUMNS. ITEM NUMBER 205.0100
- (2) SALVAGED/UNSUABLE PAVEMENT MATERIAL IS INCLUDED IN CUT.
- (5) AVAILABLE MATERIAL = CUT SALVAGED/UNUSUABLE PAVEMENT MATERIAL
- (6) EXPANDED FILL FACTOR = 1.25
- (7) THE MASS ORDINATE + OR QTY CALCULATED FOR THE DIVISION. PLUS QUANTITY INDICATES AN EXCESS OF MATERIAL WITHIN THE DIVISION. MINUS INDICATES A SHORTAGE OF MATERIAL WITHIN THE DIVISION.

BASE AGGREGATE DENSE

		305.0110	305.0120	312.0110	624.0100
		BASE AGGREGATE DENSE	BASE AGGREGATE DENSE	SELECT CRUSHED MATERIAL	
		3/4-INCH	1 1/4-INCH		WATER
STATION - STA	TION LOCATION	TON	TON	TON	MGAL
1+33 - 1+	+82 CATLIN AVE BASE AND SHLDR	51	57	52	
2+46 - 2+	+95 CATLIN AVE BASE AND SHLDR	51	57	52	
	UNDISTRIBUTED	11	12	11	3.6
PROJECT TOTAL		113	126	115	3.6

ALL ITEMS ARE CATEGORY 0010 UNLESS OTHERWISE SPECIFIED.

PROJECT NO: 7856-00-71 HWY: LOC STR COUNTY: CLARK MISCELLANEOUS QUANTITIES SHEET FILE NAME : PLOT SCALE :

		3
--	--	---

EROSION CONTROL						<u>EANDSCALIN</u>	<u>u</u>								
	628.1504	628.1520	628.6005	628.7504				625.0100	628.2008	629.0210		530.0120	630.0160	630.0500	
	SILT	SILT	TURBIDITY	TEMPORARY				TOPSOIL	EROSION MAT	FERTILIZER		SEEDING	SEEDING	SEED	
	FENCE	FENCE	BARRIERS	DITCH					URBAN CLASS I	TYPEB		MIXTURE	MIXTURE	WATER	
		MAINTENANC	Œ	CHECKS					TYPE B			NO. 20	NO. 60		
STATION - STATIO	N LF	LF	SY	LF		-	- STATION	SY	SY	CWT		LB	LB	MGAL	
1+33 - 1+82	84	84	62	20			- 1+82	160	160	0.2		4	1	3.0	
2+46 - 2+95	87	87	62	20		2+46 -	- 2+95	193	193	0.2		4	1	4.0	
UNDISTRIBUTED	43	43	31	10		UNDISTRIBUTE	D	88	88	0.1		2	1	1.8	
PROJECT TOTAL	214	214	155	50		PROJECT TOTAL		441	441	0.5		10	3	8.8	
EROSION CONTROL MOBILIZ	<u>'ATION</u>					<u>PERMANENT</u>	SIGNING								
		628.1905	628.1910									634.0612	637.2230	638.2602	638.3000
	N	MOBILIZATIONS	MOBILIZATIONS									POSTS	SIGNS	REMOVING	REMOVING
		EROSION	EMERGENCY									WOOD	TYPEII	SIGNS	SMALL
		CONTROL	EROSION CONTROL									4X6-INCH	REFLECTIVE	TYPEII	SIGN
LOCATION		EACH	EACH									X 12-FT	F		SUPPORTS
PROJECT LIMITS		3	3				SIG		SIGN	SIZE					
DROJECT TOTAL		2				LOCATION			MESSAGE	IN X		EACH	SF	EACH 1	EACH 1
PROJECT TOTAL		3	3			NE	W5-5		BRIDGE HASH MARKS		36	1	3	1	1
						SE	W5-5 W5-5		BRIDGE HASH MARKS		36 36	1	3	1	1
						NW SW	W5-5		BRIDGE HASH MARKS BRIDGE HASH MARKS		36	1	3	1	1
TRAFFIC CONTROL						PROJECT TOTAL						4	12	4	4
THAT TO CONTINUE		643.0420	643.0705	643.09	900	TROJECTIOTAL	_					'	12	'	
		TRAFFIC CONTR													
	DAYS	BARRICADES													
	IN	TYPE III	TYPE A	1113 31GN	13										
LOCATION	SERVICE	NO. DA		AY NO.	DAY										
CATLIN AVENUE	66	18 1,18		848 14	924										
						CONSTRUCT	<u>FION STAKIN</u>	_							
PROJECT TOTAL		1,18	38 1,8	348	924					50.5000		0.6501	650.9911	650.9920	
										ISTRUCTION		TRUCTION	CONSTRUCTION	CONSTRUCTION	
BIRD DETERRENT SYSTEM										STAKING		AKING	STAKING	STAKING	
	999.2	2005.S						SU	BGRADE	BASE		RUCTURE	SUPPLEMENTAL	SLOPE	
11		D MAINTAINING										AYOUT	CONTROL	STAKES	
		RENT SYSTEM										10-256	7856-00-71		
		ON 2+13				STATION	- STAT		LF	LF		EACH	EACH	LF	
STA	EA	СН				1+33	- 1+3		49	49		1	1	49	
4 4 2						2+46	- 2+	15	49	49				49	
2+13		1				2.10			,,,						

MISCELLANEOUS QUANTITIES

PLOT BY: JALAGAM, ROHITH RAO

PLOT NAME :

COUNTY: CLARK

LANDSCAPING

PROJECT NO:

7856-00-71

HWY: LOC STR

EROSION CONTROL

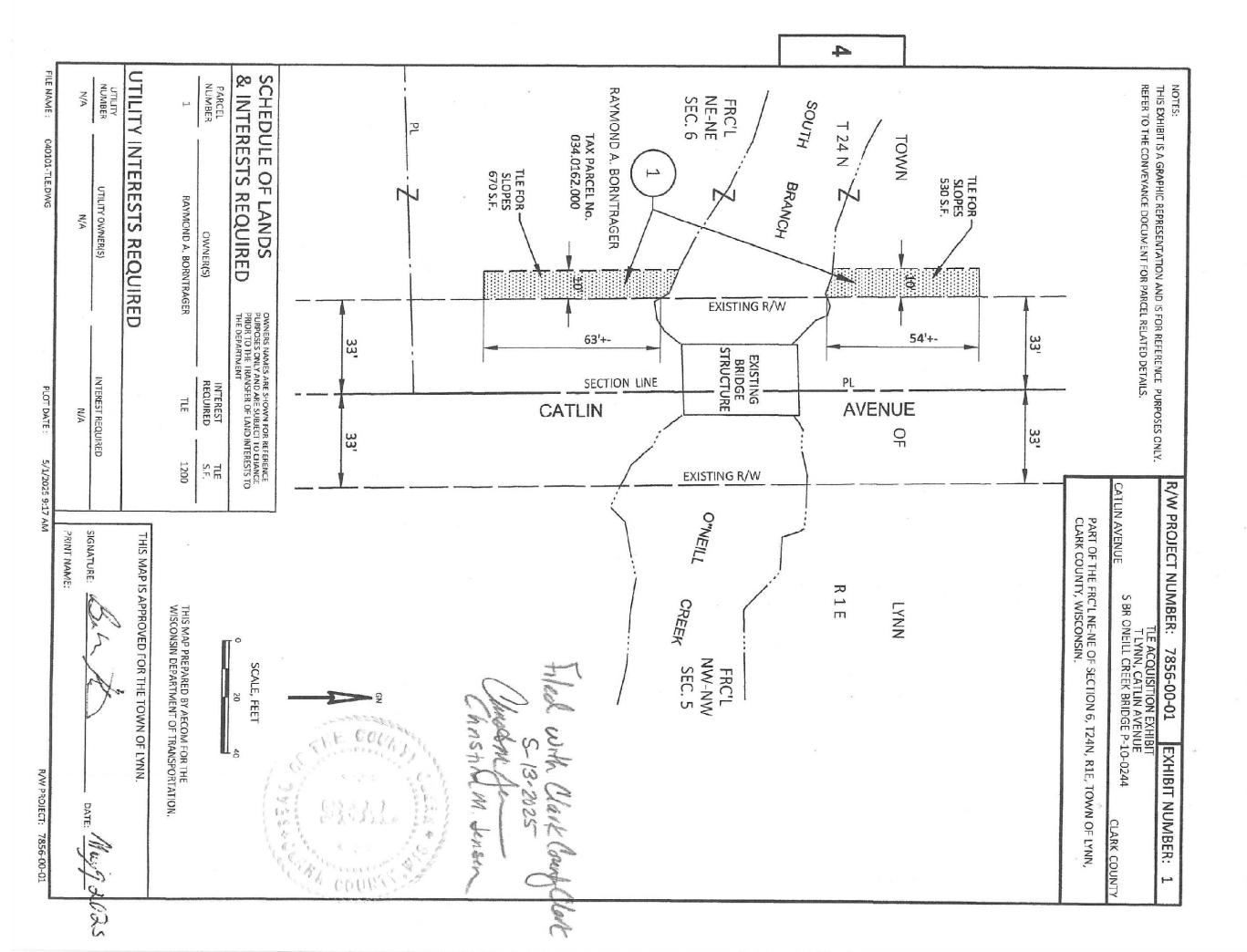
Ε

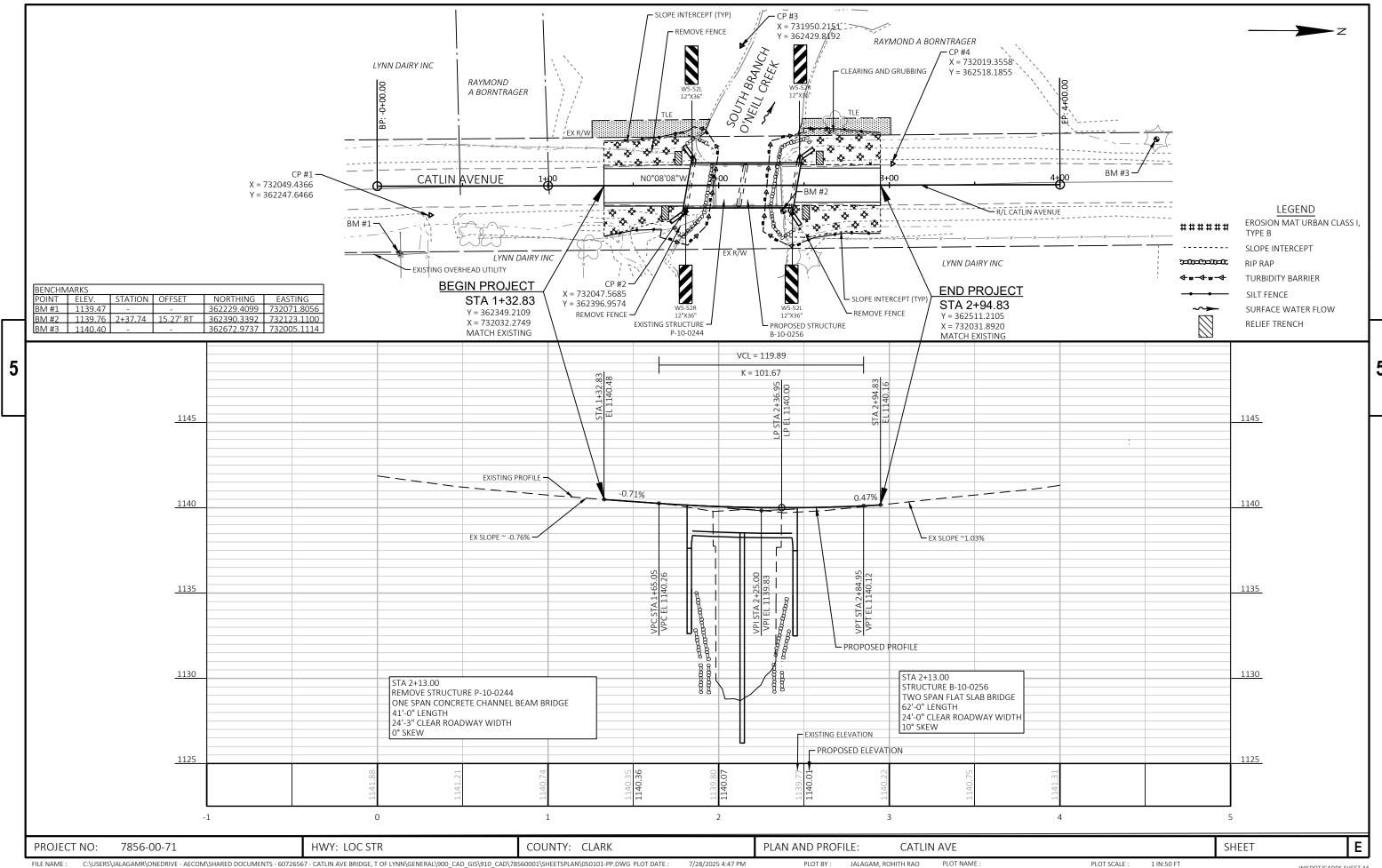
ALL ITEMS ARE CATEGORY 0010 UNLESS OTHERWISE SPECIFIED.

1" = 1'

PLOT SCALE :

SHEET





Standard Detail Drawing List

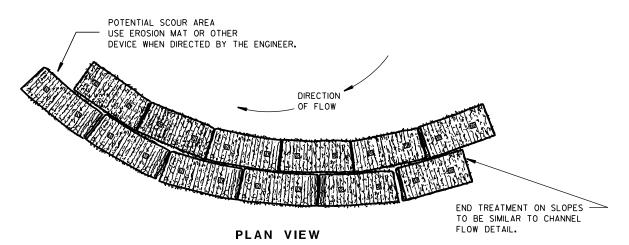
08E08-03	TYPICAL INSTALLATIONS OF EROSION BALES / TEMPORARY DITCH CHECKS
08E09-06	SILT FENCE
08E11-02	TURBIDITY BARRIER
12A03-10	NAME PLATE (STRUCTURES)
15C02-09A	BARRICADES AND SIGNS FOR MAINLINE CLOSURES
15C02-09B	BARRICADES AND SIGNS FOR VARIOUS CLOSURES
15C06-12	SIGNING & MARKING FOR TWO LANE BRIDGES
15C11-10B	CHANNELIZING DEVICES DRUMS, CONES, BARRICADES AND VERTICAL PANELS

6

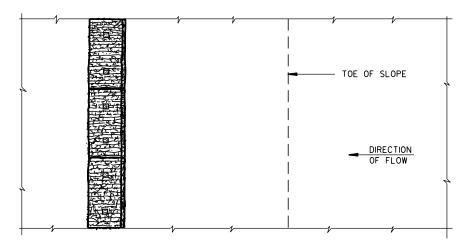
GENERAL NOTES

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.

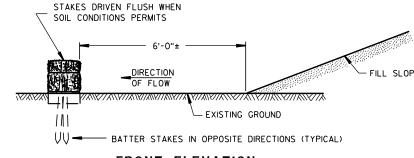
TEMPORARY DITCH CHECKS EITHER EROSION BALES OR MANUFACTURED SHALL BE PAID FOR UNDER THE BID ITEM OF TEMPORARY DITCH CHECK. THE DEPARTMENT WILL NOT PAY FOR TEMPORARY DITCH CHECKS CONSTRUCTED OF A SINGLE ROW OF EROSION BALES.



WHEN ALTERING THE DIRECTION OF FLOW



PLAN VIEW



FRONT ELEVATION

WHEN EXISTING GROUND SLOPES AWAY FROM FILL SLOPE

EROSION BALES FOR SHEET FLOW

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

STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION

APPROVED

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

6

Ō Ö

6

 ∞ Ω Δ

 ∞

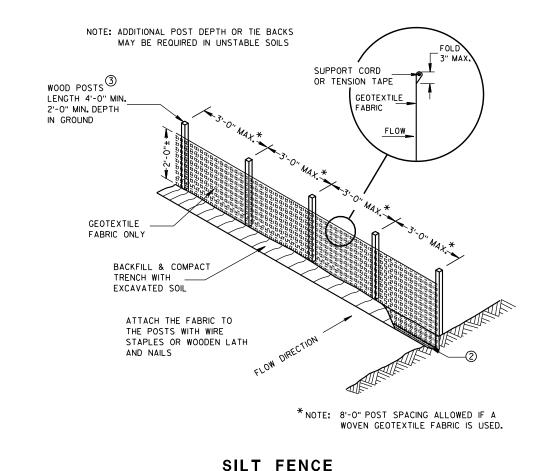
TYPICAL APPLICATION OF SILT FENCE

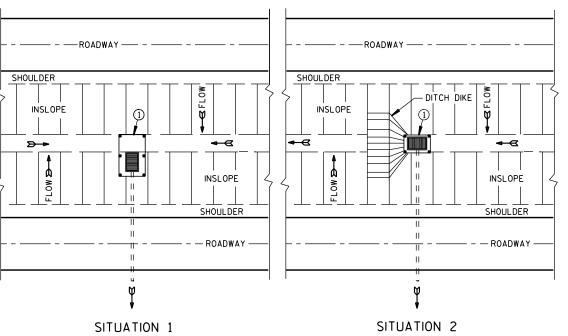
6

b

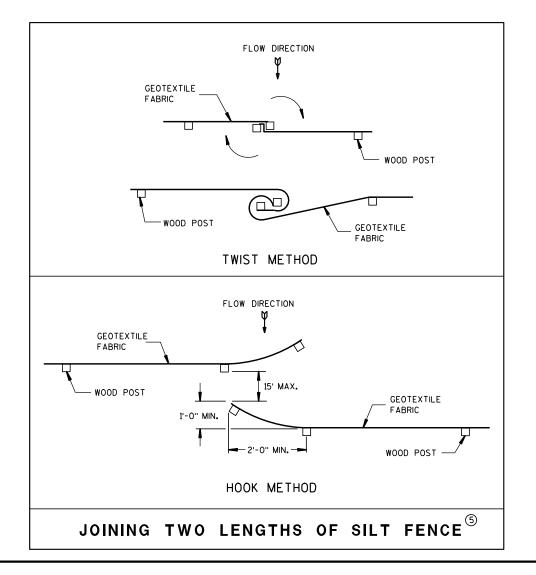
Ō

Ш





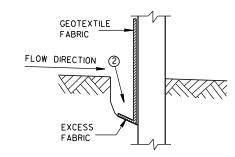
PLAN VIEW SILT FENCE AT MEDIAN SURFACE DRAINS



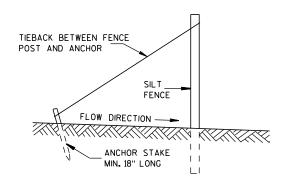
GENERAL NOTES

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.

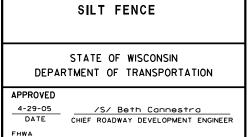


TRENCH DETAIL



SILT FENCE TIE BACK

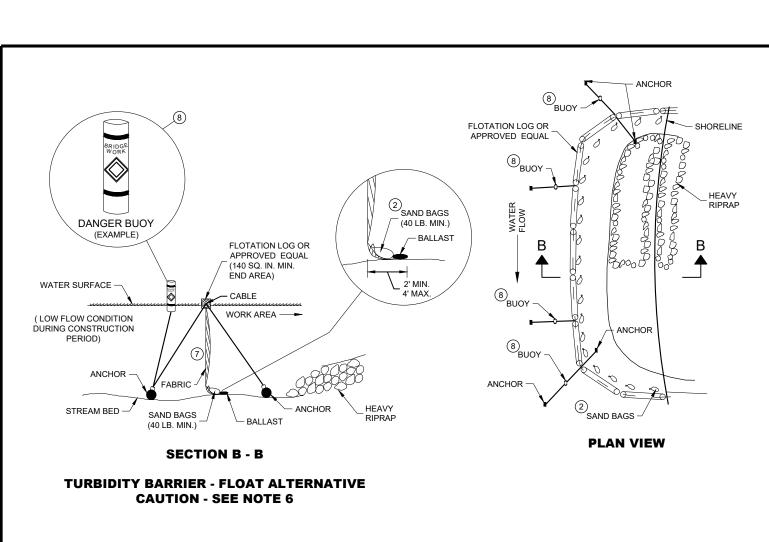
(WHEN REQUIRED BY THE ENGINEER)

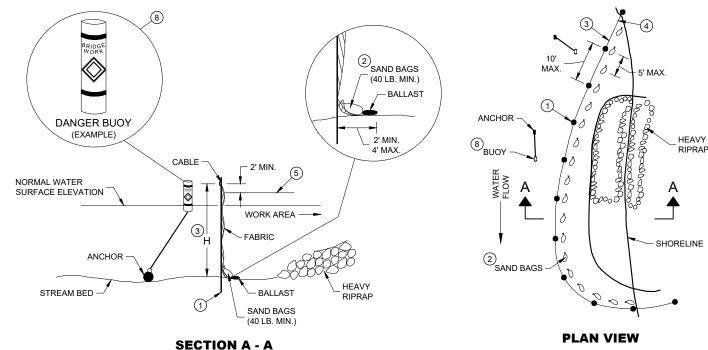


6

ထ

D.D. 8 E 9-6





TURBIDITY BARRIER - STANDARD POST INSTALLATION

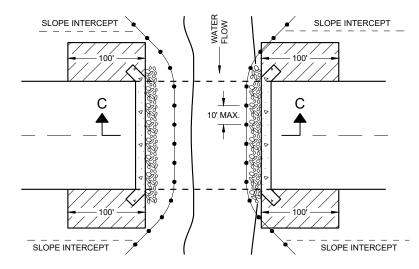
TURBIDITY BARRIER PLACEMENT DETAILS

GENERAL NOTES

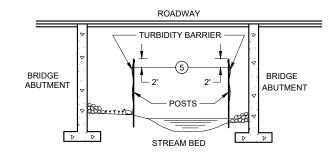
DETAILS OF CONSTRUCTION, MATERIALS AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS AND THE APPLICABLE SPECIAL PROVISIONS.

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

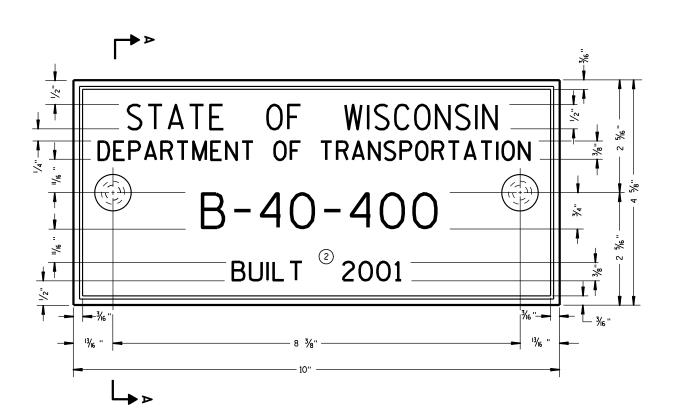
 ∞

6/4/02 /S/ Beth Cannestra

DATE CHIEF ROADWAY DEVELOPMENT
ENGINEER

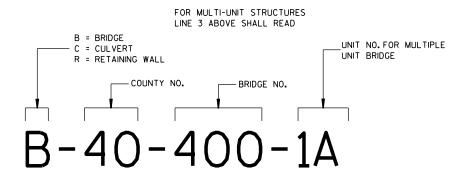
APPROVED





TYPICAL NAME PLATE

(BRIDGES, CULVERTS, AND RETAINING WALLS)



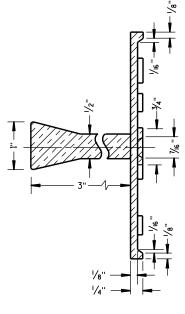
NUMBERING DESIGNATION MULTI-UNIT STRUCTURES

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.

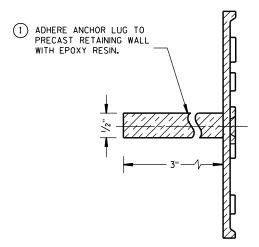
- 1 EPOXY RESIN SHALL BE FROM AN APPROVED MANUFACTURER AND USED IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS.
- REHABILITATION OF AN EXISTING STRUCTURE SHOULD USE THE DATE OF ORIGINAL STRUCTURE CONSTRUCTION.



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

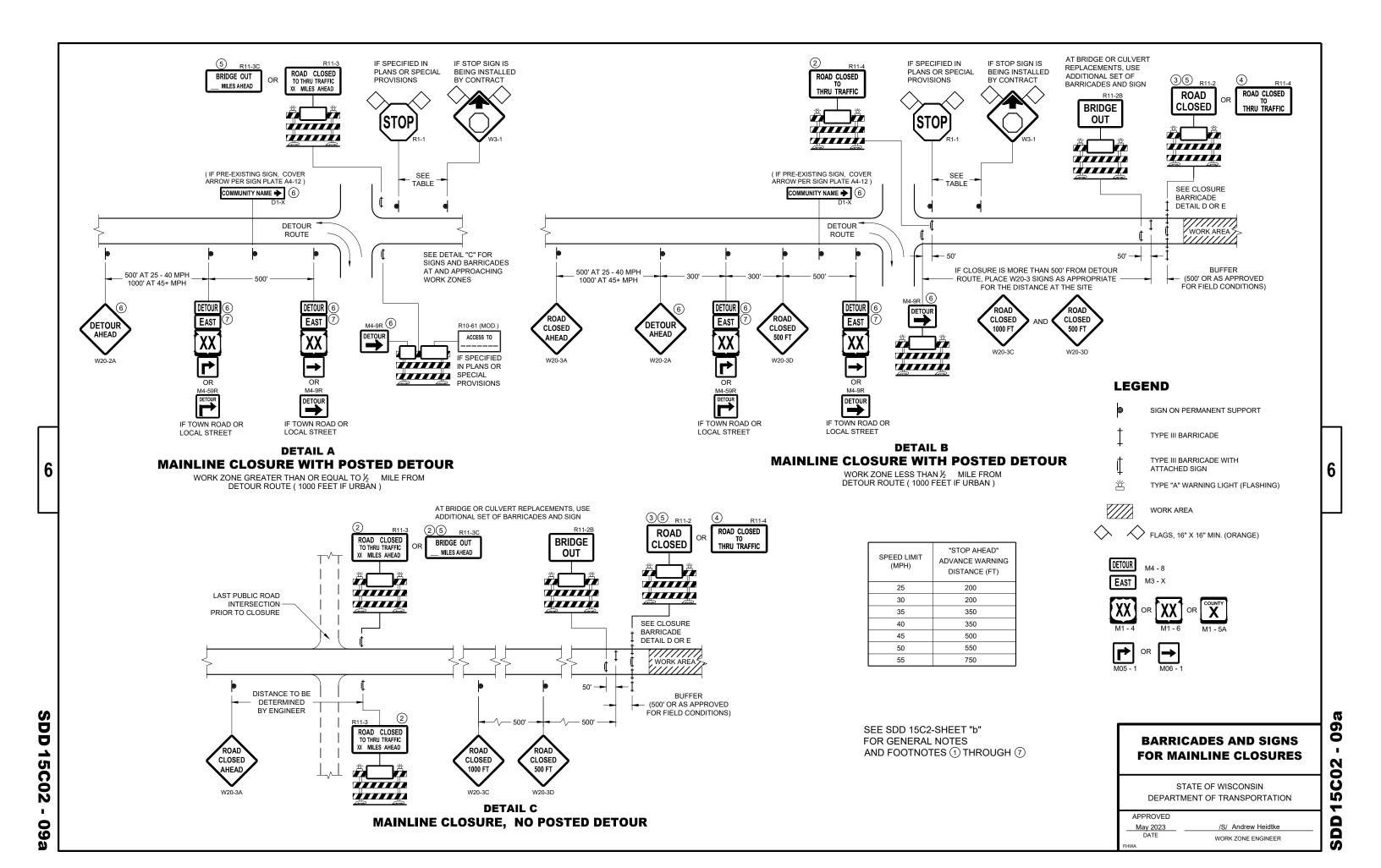
APPROVED

3/26/IO /S/ Scot Becker

DATE CHIEF STRUCTURAL DEVELOPMENT ENGINEER

.D.D. 12 A

3-10



TWO- WAY

TYPE "A" WARNING

LIGHTS REQUIRED

12" MAX. →

TWO-WAY TYPE "A" WARNING LIGHTS REQUIRED ROAD CLOSED TO THRU TRAFFIC ROAD CLOSED TO THRU TRAFFIC ROAD CLOSED TO THRU TRAFFIC

BRIDGE

OUT

ROAD

CLOSED

RAMP

CLOSED

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.
- (2) THESE SIGNS AND BARRICADES ARE NOT REQUIRED IF ROAD CLOSURE BEGINS AT AN INTERSECTION.
- (3) FOR ROAD CLOSURE <u>WITHOUT</u> LOCAL ACCESS TO PROJECT, SEE ROAD CLOSURE BARRICADE DETAIL "D".
- (4) FOR ROAD CLOSURE WITH LOCAL ACCESS TO PROJECT, SEE 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.

BARRICADES AND SIGNS FOR VARIOUS CLOSURES

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED May 2023

May 2023 /S/ Andrew Heidtke

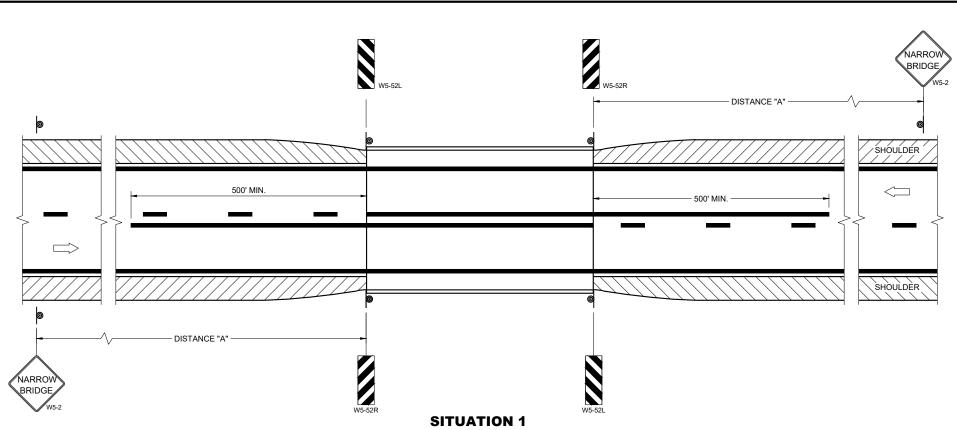
DATE WORK ZONE ENGINEER

015C02 -

Ò



SDD 15C06-12



WARRANTING CRITERIA: BRIDGE WIDTH IS AT LEAST 16 FEET BUT LESS THAN 24 FEET.

W5-52L W5-52L W5-52L W5-52L W5-52L

SITUATION 2

SDD

15C06-12

WARRANTING CRITERIA: 1. BRIDGE WIDTH IS AT LEAST 24 FEET <u>AND</u> 2. BRIDGE SHOULDER WIDTH IS LESS THAN 6 FEET

GENERAL NOTES

DETAILS OF TRAFFIC CONTROL DEVICES AND INSTALLATION NOT SHOWN ON THE DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS, THE SPECIAL PROVISIONS, AND THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES.

LOCATE W5-52 SIGN POST(S) BEHIND GUARDRAIL WHEN PRESENT.

PLACE THE EDGE OF THE W5-52 SIGN IN LINE WITH FACE OF CURB OR PARAPET.

ON BRIDGE ONLY PROJECTS, PLACE 300 FEET OF EDGELINE.

OMIT EDGELINES ON ROADWAYS WITHOUT EXISTING EDGELINES.

1) OMIT ON ONE-WAY TRAVELED WAYS.

LEGEND

SIGN ON PERMANENT SUPPORT

DIRECTION OF TRAFFIC

DISTANCE TABLE

POSTED OR 85TH PERCENTILE SPEED	DISTANCE "A"
25	150'
30	200'
35	250'
40	300'
45	400'
50	550'
55	700'

SIGNING AND MARKING FOR TWO LANE BRIDGES

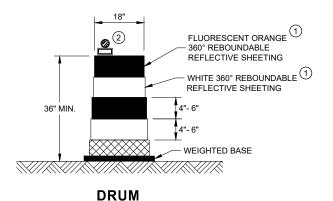
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED	
May 2023	/S/ Jeannie Silver
DATE	Statewide Pavement Marking Engineer

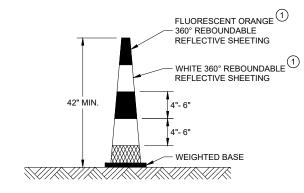
SDD 15C11

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.

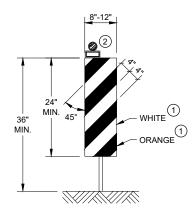


BALLAST WIDTHS RANGE FROM 24"-36"



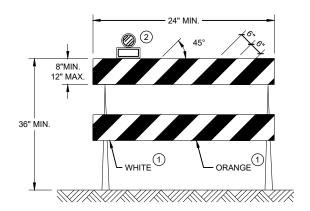
42" CONE

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



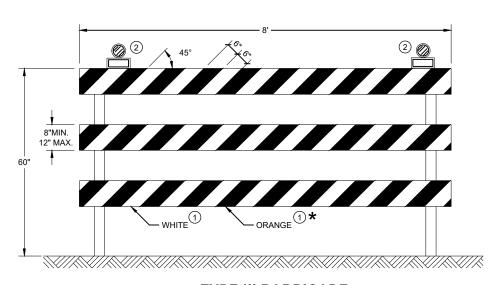
VERTICAL PANEL

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.

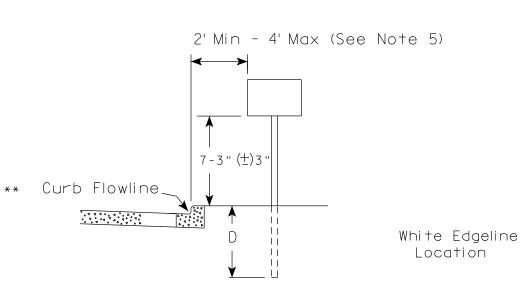
* IF USED FOR A PERMANENT APPLICATION USE RED SHEETING.

CHANNELIZING DEVICES DRUMS, CONES, BARRICADES AND VERTICAL PANELS

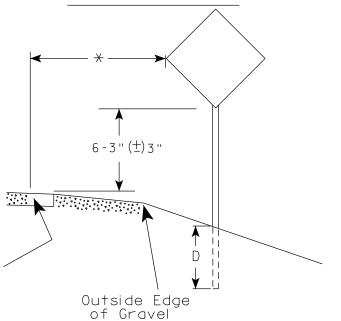
STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION 50

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





RURAL AREA (See Note 2)



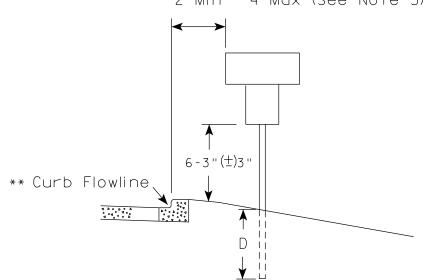
GENERAL NOTES

- 1. Signs wider than 4 feet or 20 sq.ft or larger, shall be mounted on multiple posts. Refer to plate A4-4.
- 2. If signs are mounted on 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) 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" (\pm) 3".

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

2' Min - 4' Max (See Note 5)



White Edgeline
Location

Outside Edge
of Gravel

POST EMBEDMENT DEPTH

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

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.

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

PLOT BY : mscj9h

TYPICAL INSTALLATION
OF PERMANENT TYPE II
SIGNS ON SINGLE POSTS

WISCONSIN DEPT OF TRANSPORTATION

APPROVED

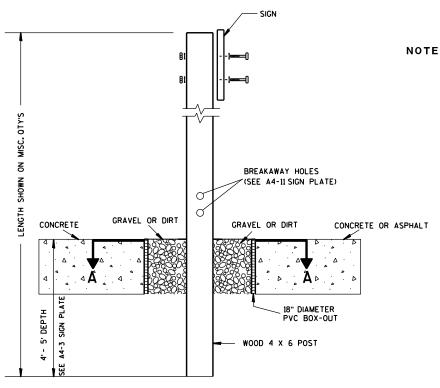
Matthew R Rawh

For State Traffic Engineer

DATE 12/6/23 PLATE NO. _A4-3.23

Ε

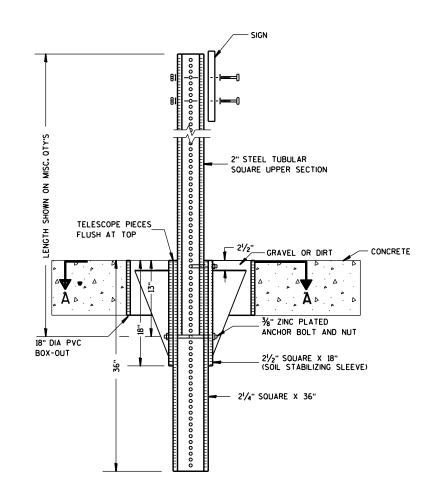
PROJECT NO: HWY: COUNTY: SHEET NO:



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.



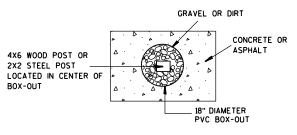
ELEVATION VIEW

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

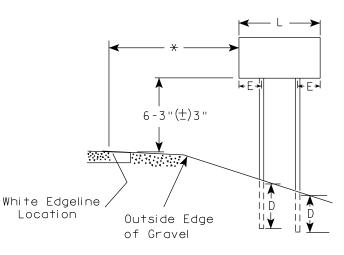
PLOT NAME :

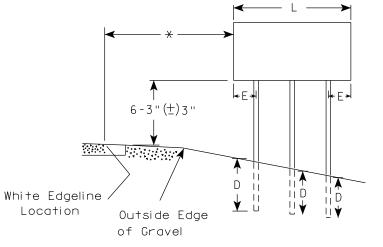
PLOT BY: mscsja

PLOT SCALE: 13.659812:1.000000

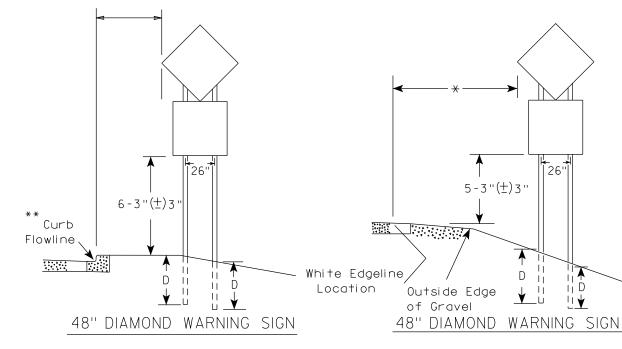
APPROVED

WISDOT/CADDS SHEET 42





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



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

HWY:

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

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" (±) 3" or 6'-3" (±) 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) 3'' or as directed by the engineer.
- 8. The Double Arrow sign (W12-1) shall be mounted at a height of 2'-3" (±) 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" (±) 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.
- $\times \times \times$ See A4-3 sign plate for signs 4' or less in width and less than 20 S.F. in area.

POST EMBEDMENT DEPTH

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

TYPICAL INSTALLATION OF TYPE II SIGNS ON MULTIPLE POSTS

WISCONSIN DEPT OF TRANSPORTATION

APPROVED

Matther R Rauch
For State Traffic Engineer

DATE 12/6/23

PLATE NO. <u>A4-4.16</u>

Ε

CUEET NO.

SHEET NO:

FILE NAME : C:\CAEfiles\Project\tr_stdplate\A44.dgn

PROJECT NO:

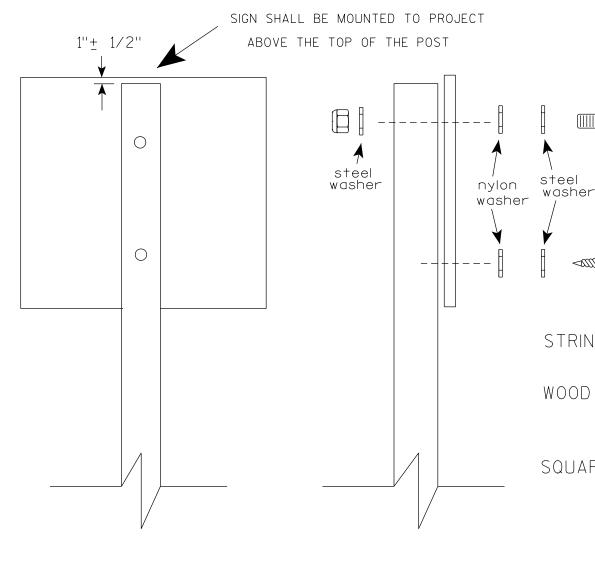
COUNTY:

PLOT DATE: 6-DEC 2023 11:31

PLOT NAME :

PLOT BY : mscj9h

PLOT SCALE: \$\$.....plotscale.....\$\$ 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

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

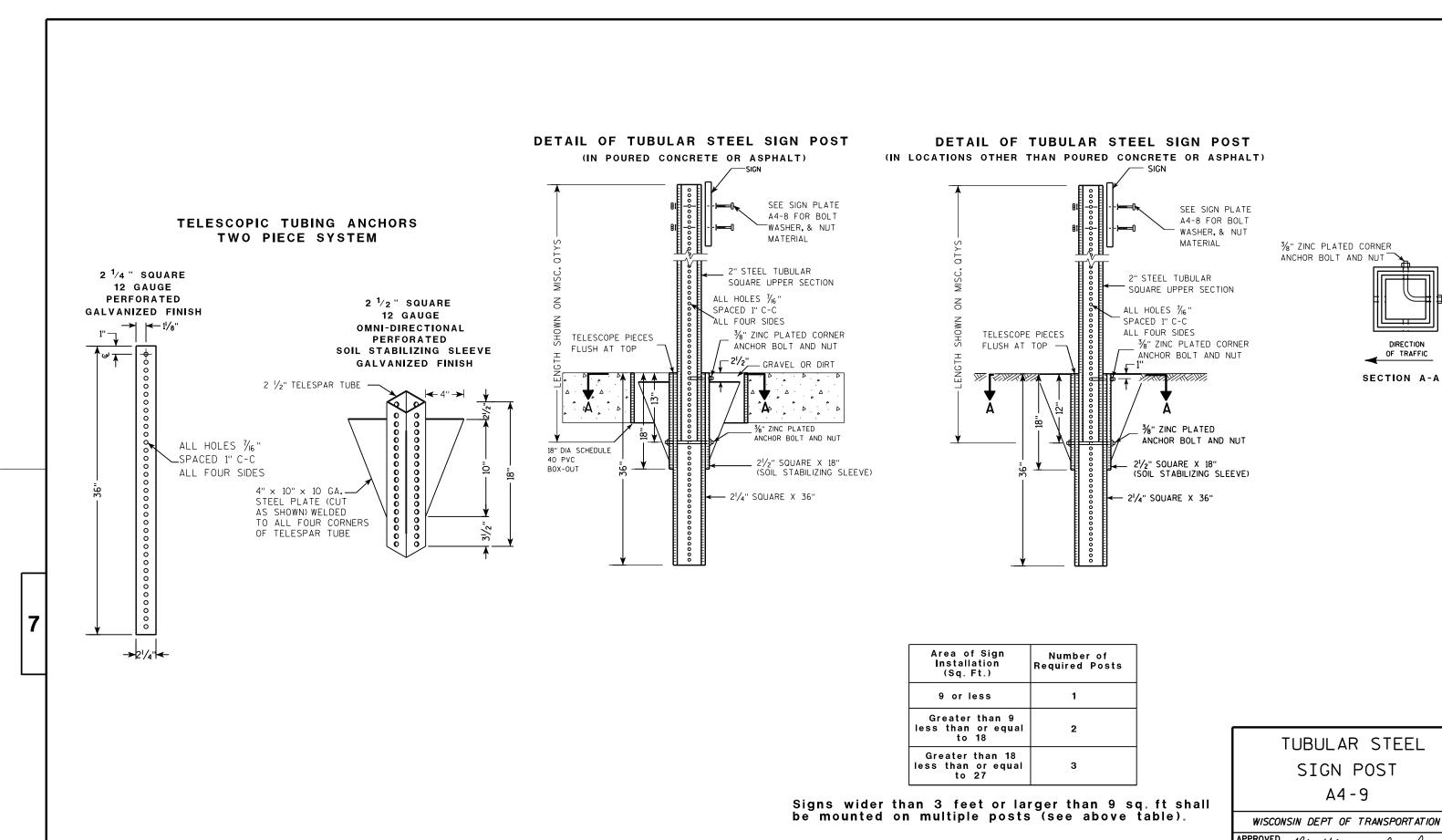
WISDOT/CADDS SHEET 42

Ε

WISCONSIN DEPT OF TRANSPORTATION

Matther ≠or State Traffic Engineer

SHEET NO:

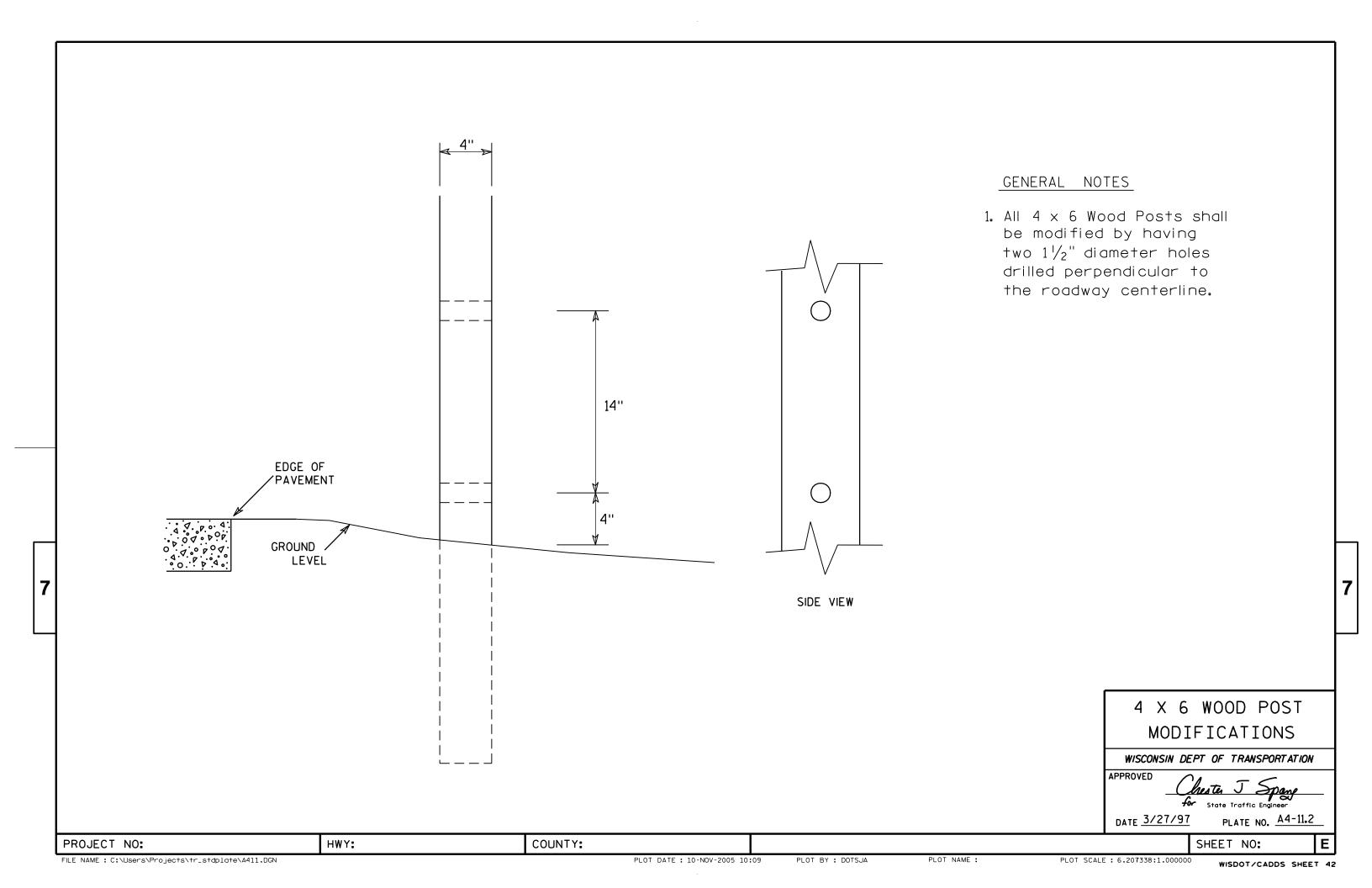


PROJECT NO: HWY: COUNTY: SHEET NO: FILE NAME : C:\CAEFiles\Projects\tr_stdplate\A49.DGN PLOT DATE: 05-FEB-2015 17:09 PLOT BY: mscsja PLOT NAME : PLOT SCALE: 13.659812:1.000000

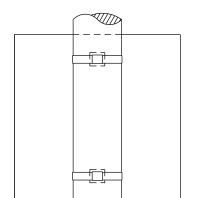
DATE 2/05/15

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

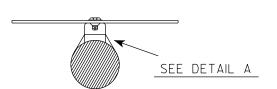
For State Traffic Engineer

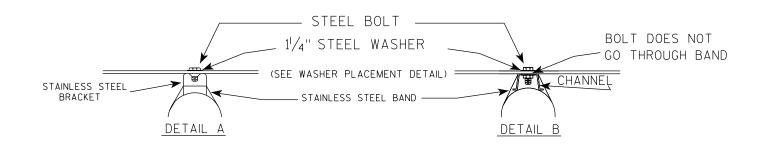


BANDING

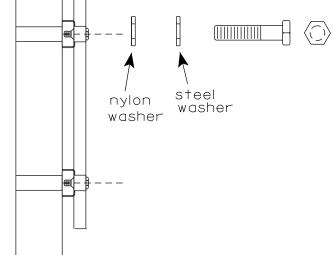


SINGLE SIGN





WASHER PLACEMENT



HWY:

WASHERS (ALL POSTS) -

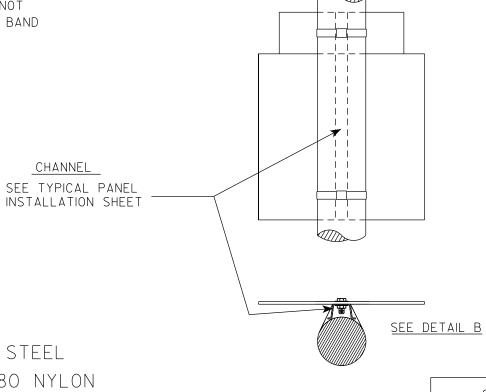
1-1/4" O.D. X³/₈" I.D. X¹/₁₆" STEEL 1-1/4" O.D. $\times \frac{3}{8}$ " I.D. \times .080 NYLON FOR ALL TYPE H SIGNS

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:

31/2"

VIEW FROM TOP

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 $1^{1}/_{4}$ " O.D. X $3/_{8}$ " I.D. X $1/_{16}$ "
- 8. NYLON WASHERS SHALL BE $1^{1}/_{4}$ " O.D. X $3/_{8}$ " I.D. X .080 FOR TYPE H OR TYPE F FACE SIGN

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

BLOCK BANDING DETAIL (V-BLOCK OPTION)

WISCONSIN DEPT OF TRANSPORTATION

APPROVED //

DATE 4/19/2022 PLATE NO. _A5-10.3

ATE 4/19/2022 PLATE NO. _

SHEET NO:

SIGN

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

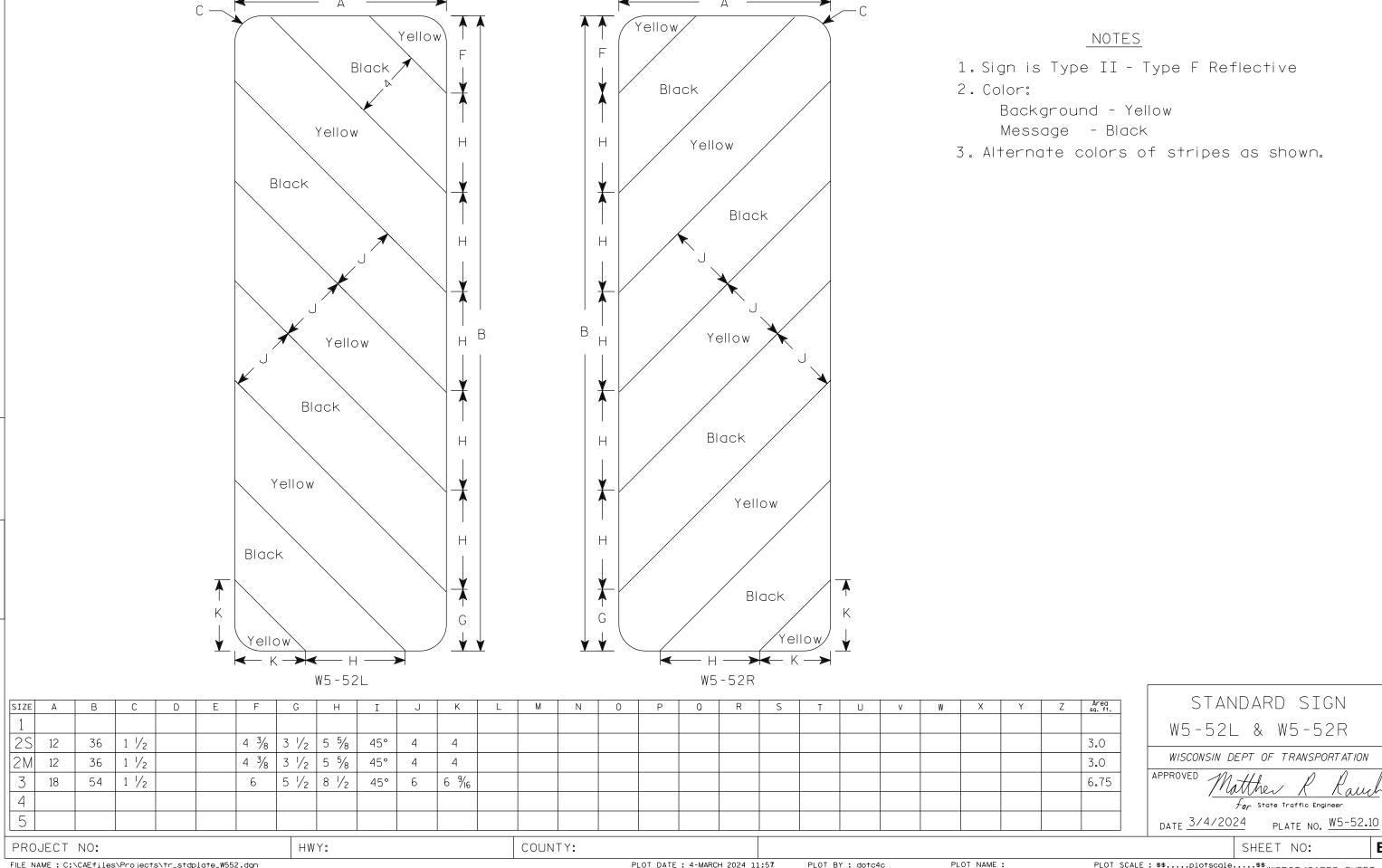
PROJECT NO:

PLOT DATE: 19-APRIL 2022 11:55

PLOT BY : dotc4c

WISDOT/CADDS SHEET 42

Ε

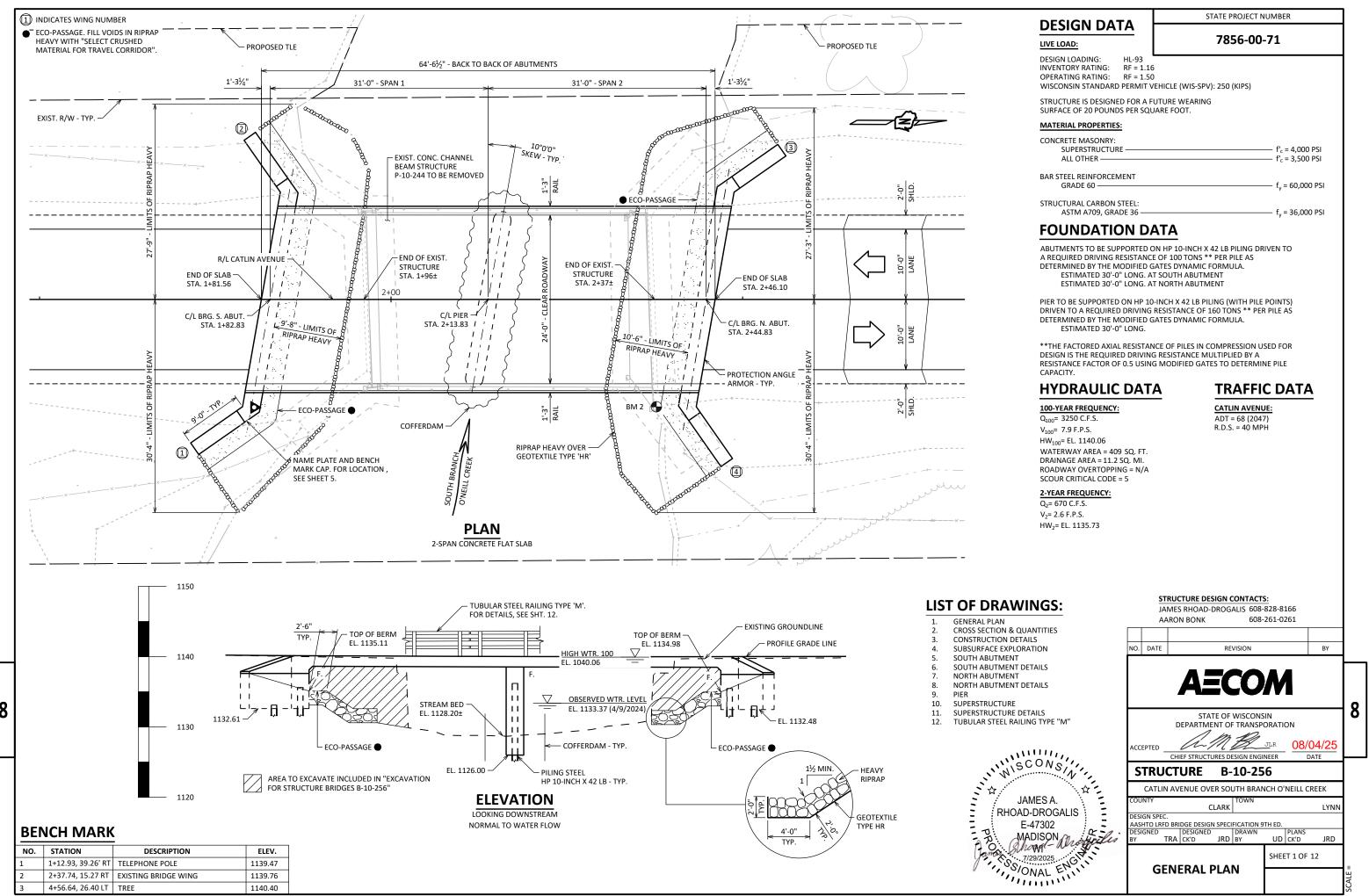


FILE NAME : C:\CAEfiles\Projects\tr_stdplate_W552.dgn

PLOT DATE: 4-MARCH 2024 11:57

PLOT BY : dotc4c

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



CROSS SECTION THRU ROADWAY

TOTAL ESTIMATED QUANTITIES

BID ITEM NUMBER	BID ITEMS	UNIT	SUPER	SOUTH ABUT.	PIER	NORTH ABUT.	TOTALS
203.0260	REMOVING STRUCTURE OVER WATERWAY MINIMAL DEBRIS P-10-244	EACH					1
206.1001	EXCAVATION FOR STRUCTURES BRIDGES B-10-256	EACH					1
206.5001	COFFERDAMS B-10-256	EACH					1
210.1500	BACKFILL STRUCTURE TYPE A	TON		150		150	300
502.0100	CONCRETE MASONRY BRIDGES	CY	99	25	29	25	178
502.3200	PROTECTIVE SURFACE TREATMENT	SY	230	20		20	270
502.9000.S	UNDERWATER SUBSTRUCTURE INSPECTION B-10-256	EACH					1
505.0400	BAR STEEL REINFORCEMENT HS STRUCTURES	LB		1990	1490	1990	5,470
505.0600	BAR STEEL REINFORCEMENT HS COATED STRUCTURES	LB	19540	1390	60	1390	22,380
506.0105	STRUCTURAL STEEL CARBON	LB	530				530
513.4061	RAILING TUBULAR TYPE M	LF	134				134
516.0500	RUBBERIZED MEMBRANE WATERPROOFING	SY		6		6	12
550.0500	PILE POINTS	EACH			6		6
550.1100	PILING STEEL HP 10-INCH X 42 LB	LF		180	180	180	540
606.0300	RIPRAP HEAVY	CY		50		55	105
612.0406	PIPE UNDERDRAIN WRAPPED 6-INCH	LF		60		60	120
645.0111	GEOTEXTILE TYPE DF SCHEDULE A	SY		30		30	60
645.0120	GEOTEXTILE TYPE HR	SY		90		90	180
SPV.0195.501	SELECT CRUSHED MATERIAL FOR TRAVEL CORRIDOR	TON		7		7	14
	NON-BID ITEMS						
	FILLER	SIZE					1/2", 3/4"

GENERAL NOTES

DRAWINGS SHALL NOT BE SCALED.

7856-00-71

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.

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

THE EXISTING STRUCTURE (P-10-244) IS A SINGLE-SPAN CONCRETE CHANNEL BEAM BRIDGE, 41.0' LONG X 24.8' WIDE, TO BE REMOVED.

ALL REQUIRED REMOVAL OF THE EXISTING SUBSTRUCTURES IS INCLUDED IN THE BID ITEM "REMOVING STRUCTURE OVER WATERWAY MINIMAL DEBRIS P-10-244".

THE UPPER LIMITS OF "EXCAVATION FOR STRUCTURES B-10-256" SHALL BE THE EXISTING GROUNDLINE.

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

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.

THE QUANTITY FOR BACKFILL STRUCTURE IS CALCULATED BASED ON THE DETAIL SHOWN IN THE PLANS

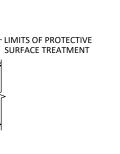
PROTECTIVE SURFACE TREATMENT TO BE APPLIED TO THE ENTIRE EXPOSED TOP OF SLAB, TOP AND EXTERIOR EXPOSED FACE OF WINGS, AND THE END 1'-0" OF THE FRONT FACE OF ABUTMENT.

THE SLOPE OF THE FILL IN FRONT OF THE ABUTMENTS SHALL BE COVERED WITH HEAVY RIPRAP, SELECT CRUSHED MATERIAL FOR TRAVEL CORRIDOR, AND GEOTEXTILE TYPE "HR" TO THE EXTENT SHOWN ON SHEET 1 AND THE ABUTMENT DETAILS.

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

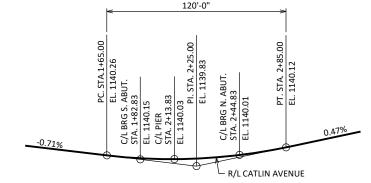
THE EXISTING STREAM BED SHALL BE USED AS THE UPPER LIMITS OF EXCAVATION AT THE

COFFERDAM REQUIRED AT PIER. CONCRETE POURED UNDER WATER WILL BE ALLOWED AT THE ABUTMENTS AND PIER AND SHALL BE DONE IN ACCORDANCE WITH SECTION 502.3.5.3 OF THE STANDARD SPECIFICATIONS.



SURFACE PROTECTION DETAIL

RAILING NOT SHOWN FOR CLARITY



PROFILE GRADE LINE

NO. DATE REVISION BY

STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION

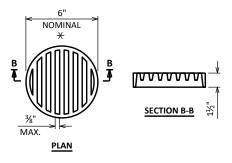
STRUCTURE B-10-256

DRAWN DRAWN

QUANTITIES

8

ALE =

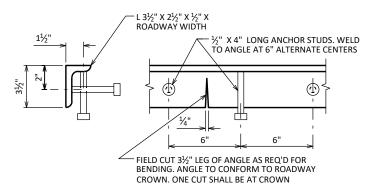


RODENT SHIELD DETAIL

 $m{\times}$ DIMENSIONS ARE APPROXIMATE. THE GRATE IS SIZED TO FIT INTO A PIPE COUPLING. ORIENT SO SLOTS ARE VERTICAL.

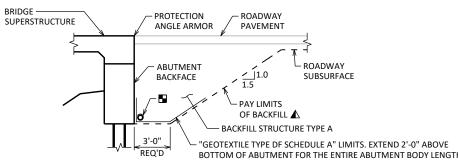
THE RODENT SHIELD, PIPE COUPLING AND SCREWS SHALL BE CONSIDERED INCIDENTAL TO THE BID ITEM "PIPE UNDERDRAIN WRAPPED 6-INCH".

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.



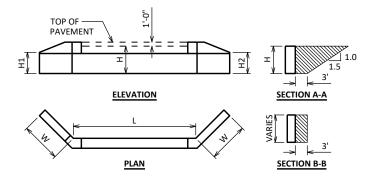
PROTECTION ANGLE ARMOR

SANDBLAST PROTECTION ANGLE AFTER FABRICATION PER NOTES. AFTER BLAST CLEANING, THE PROTECTION ANGLE SHALL BE HOT DIPPED GALVANIZED.



TYPICAL SECTION THRU ABUTMENT

- ▲ 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.



ABUTMENT BACKFILL DIAGRAM

L = ABUTMENT BODY LENGTH AT BACKFACE (FT)

H = AVERAGE ABUTMENT FILL HEIGHT (FT)

H1 = WING 1 HEIGHT AT TIP (FT)

H2 = WING 2 HEIGHT AT TIP (FT)

W = WING LENGTH (FT)

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

 $f_{CF} = (L)(3.0')(H) + (L)(0.5)(1.5H)(H) + (3')(0.5)(H1+H2+H+H)(W)$

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

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

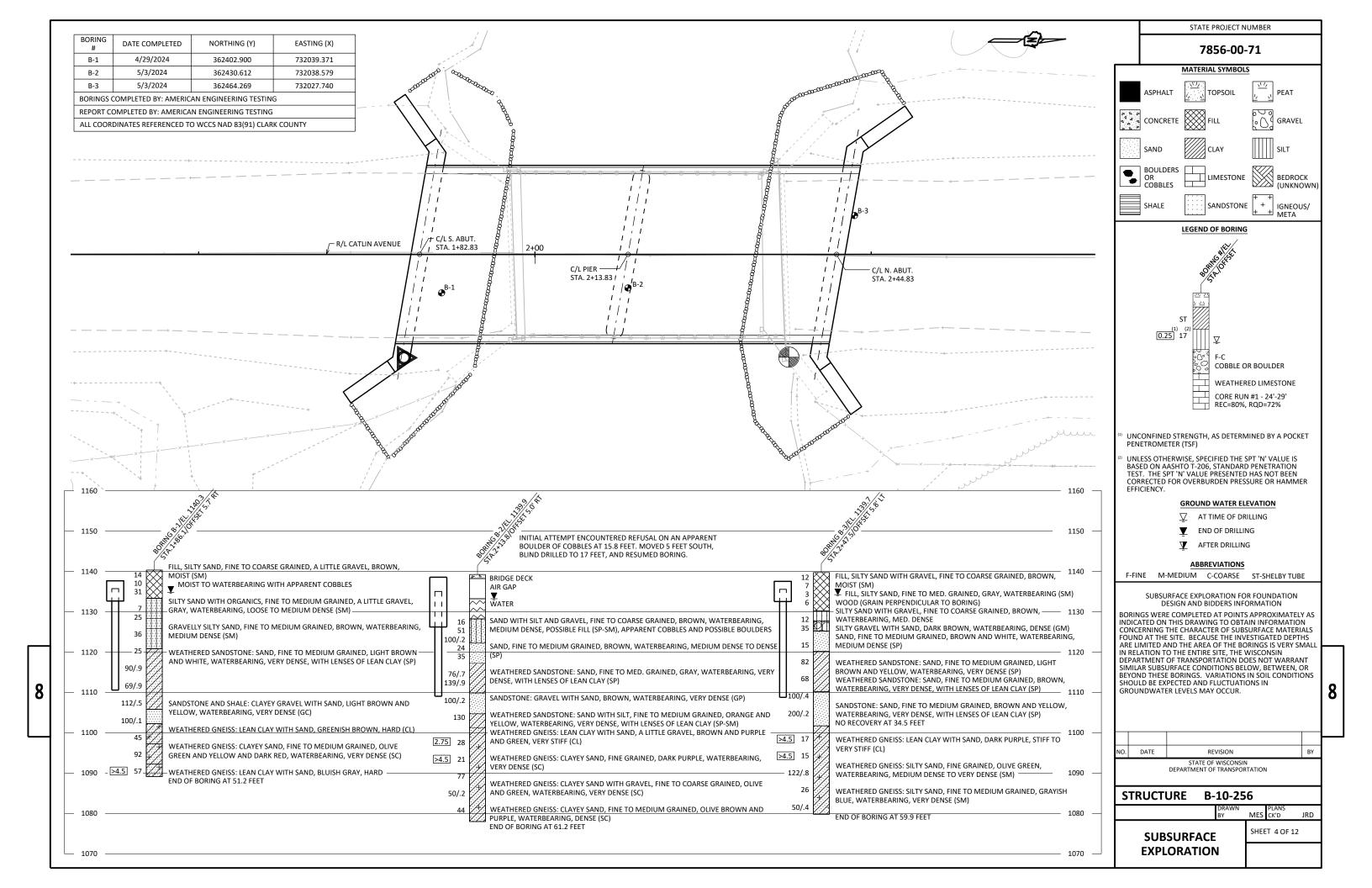
NOTES

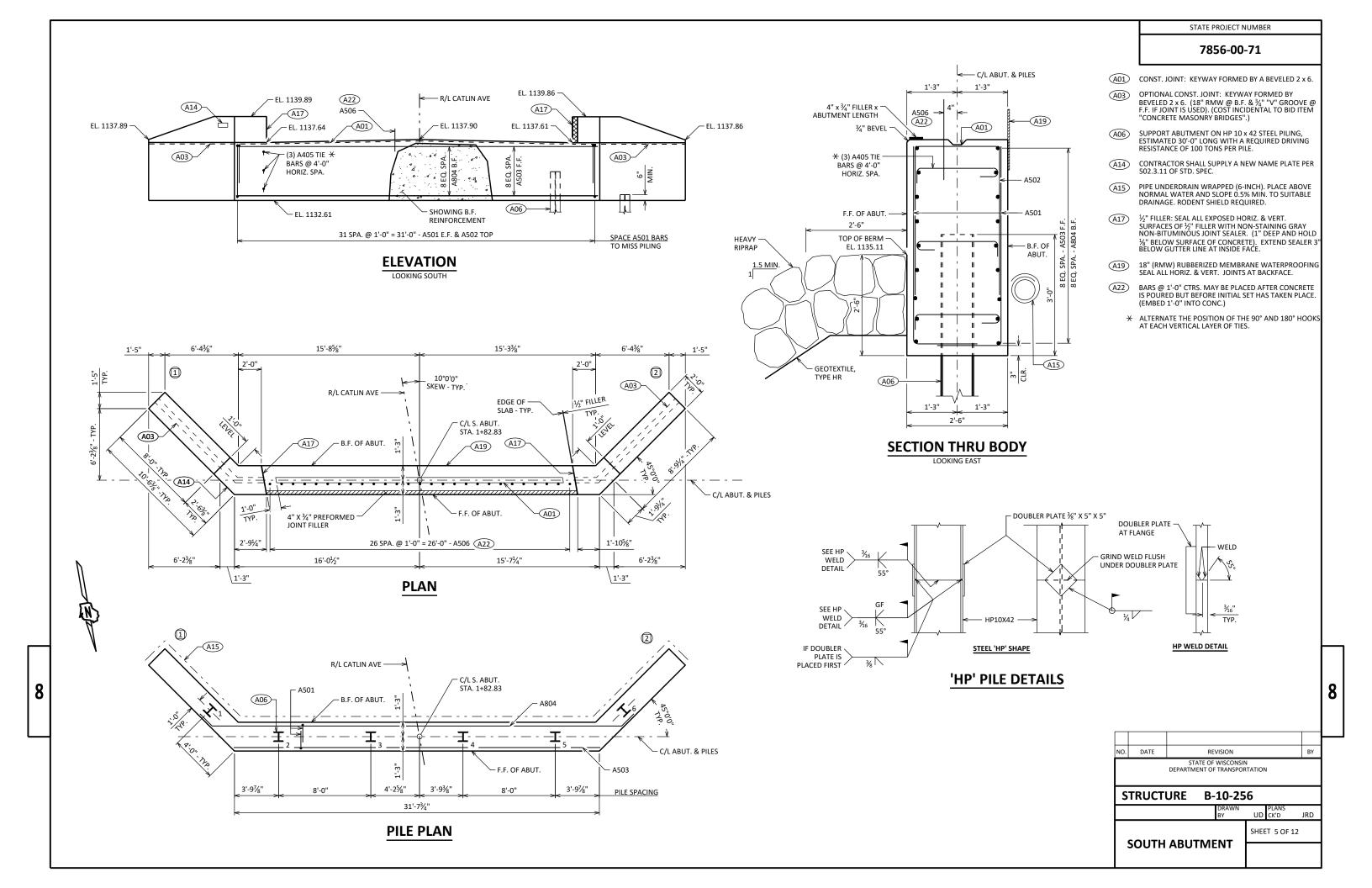
SANDBLAST PLATES, SUPPORTS AND EXTRUSIONS AFTER FABRICATION IN ACCORDANCE WITH SSPC SP. #6
"COMMERCIAL BLAST CLEANING". AFTER BLAST CLEANING, THE PLATES, SUPPORTS AND EXTRUSIONS SHALL BE HOT DIPPED GALVANIZED.

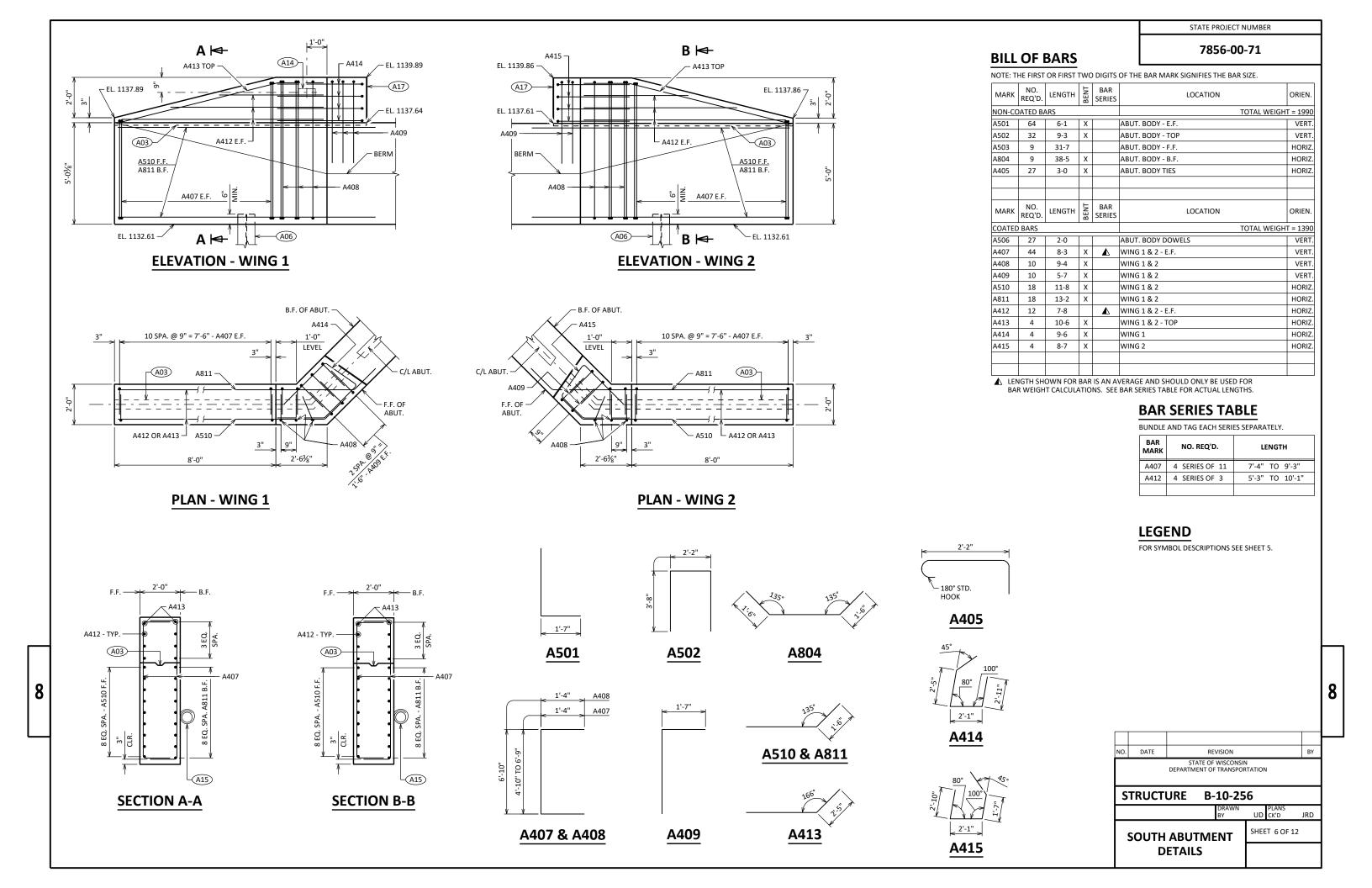
0

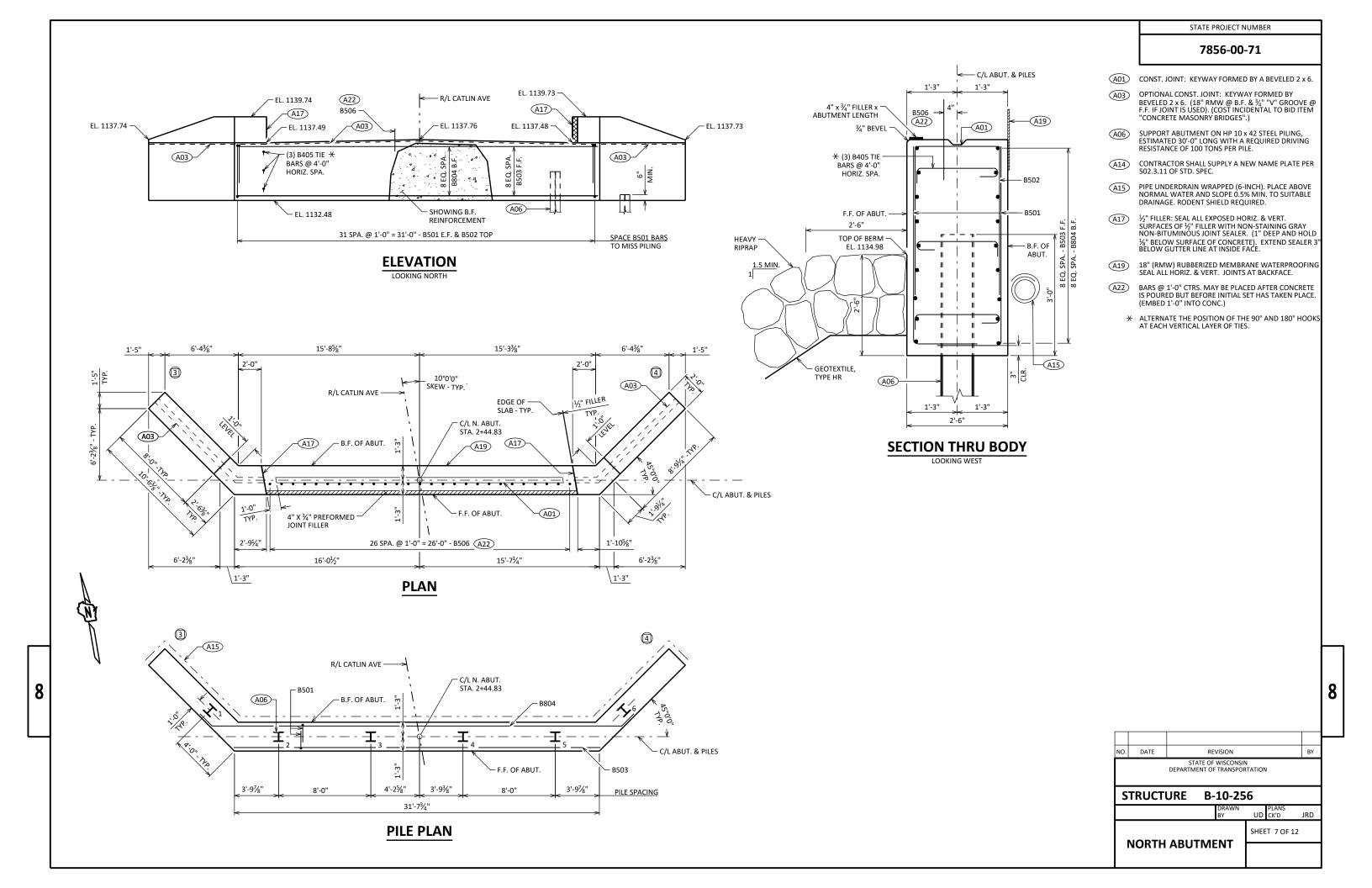
10.	O. DATE REVISION					BY	
	STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION						
S	STRUCTURE B-10-256						
			UD	PLANS CK'D	JRD		
CONSTRUCTION			SHEE	T 3 OF	12		
	DETAILS						

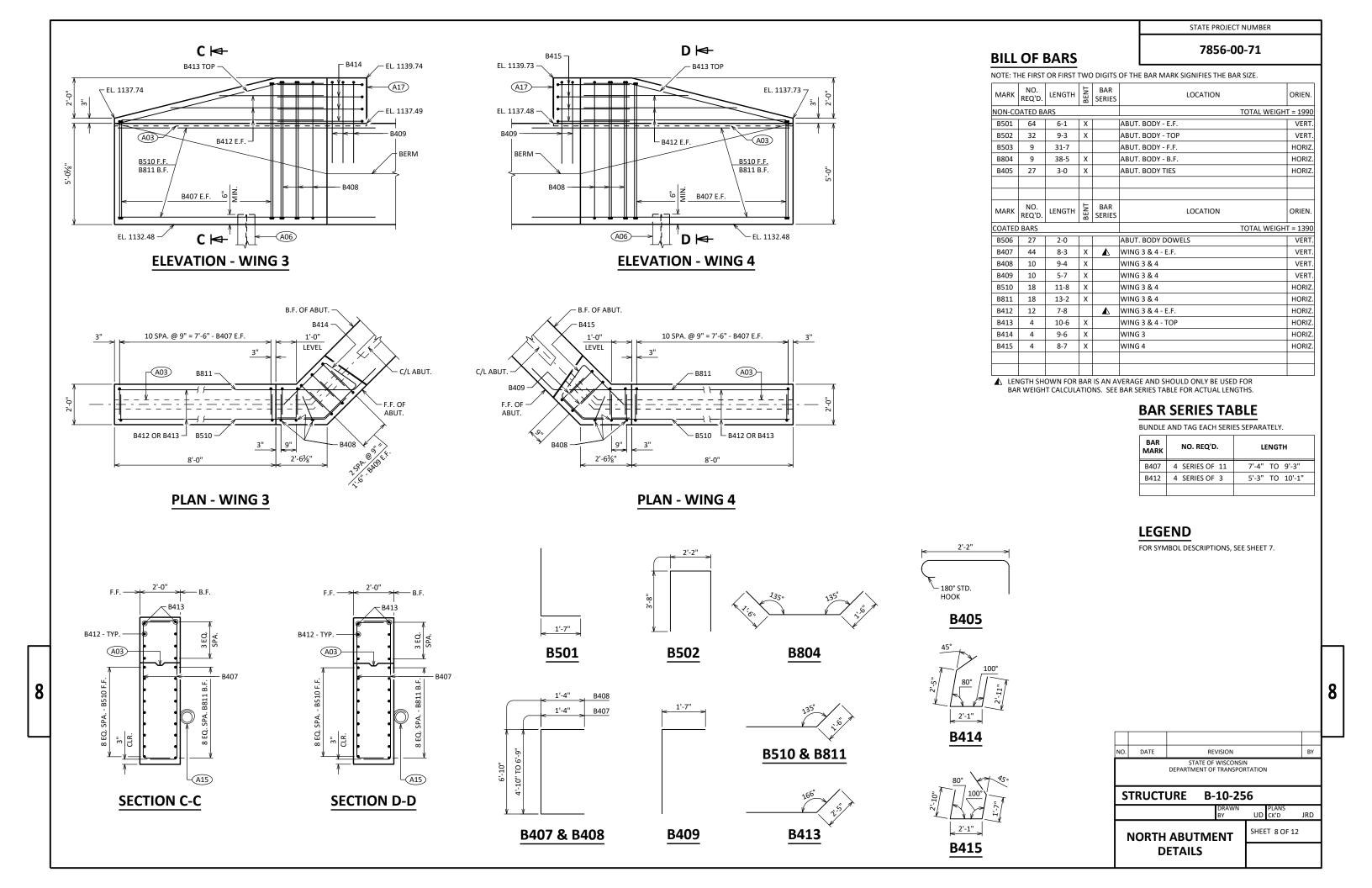
8

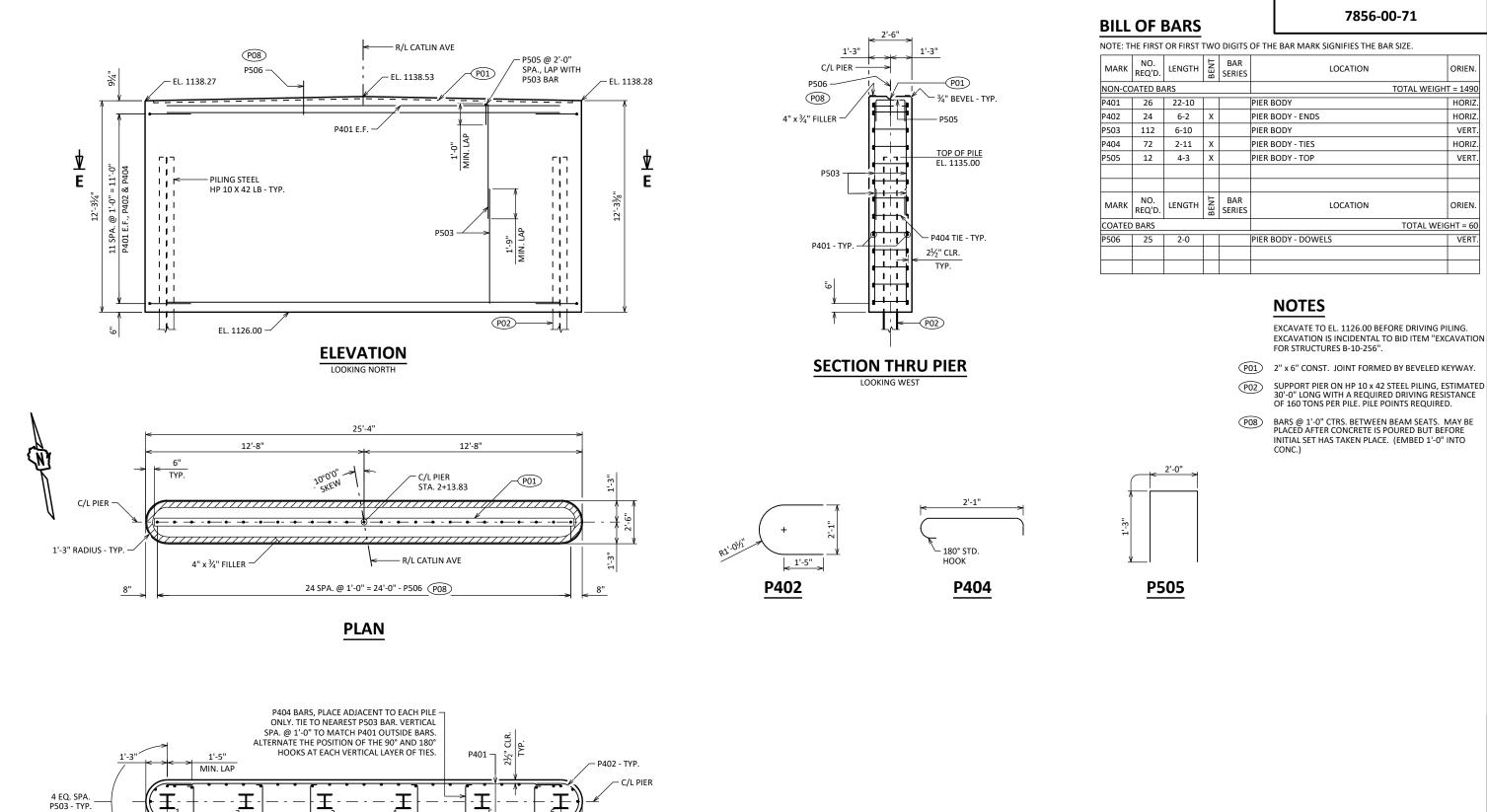












1'-3"

22 SPA. @ 1'-0" = 22'-0" - P503 E.F.

5 EQ. SPA. @ 4'-6³/₄" = 22'-10"

SECTION E-E

PILE SPACING 1'-3"

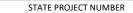
STRUCTURE B-10-256

DRAWN BY UD CK'D JRD

SHEET 9 OF 12

8

STATE PROJECT NUMBER



7856-00-71

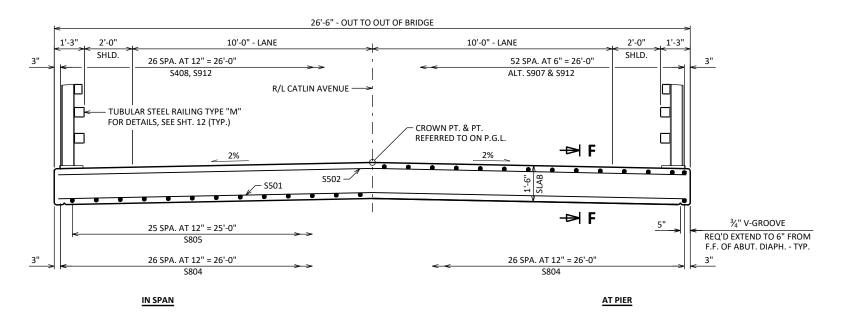


TOP TRANSVERSE BARS IN SLAB SHALL BE SUPPORTED BY INDIVIDUAL BAR CHAIRS AT APPROXIMATELY 3'-0" CENTERS EACH WAY. BOTTOM LONGITUDINAL BARS SHALL BE SUPPORTED BY CONTINUOUS BAR CHAIRS AT APPROXIMATELY 4'-0" CENTERS.

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

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

PRIOR TO RELEASING SLAB FALSEWORK, TAKE TOP OF SLAB ELEVATIONS AT THE C/L OF ABUTMENTS, AND AT $\frac{3}{10}$ PTS. TO VERIFY CAMBER. TAKE ELEVATIONS ALONG EDGE OF SLAB AND CROWN OR R/L. RECORD ELEVATIONS ON AS BUILT PLANS. SEE SHEET 11.

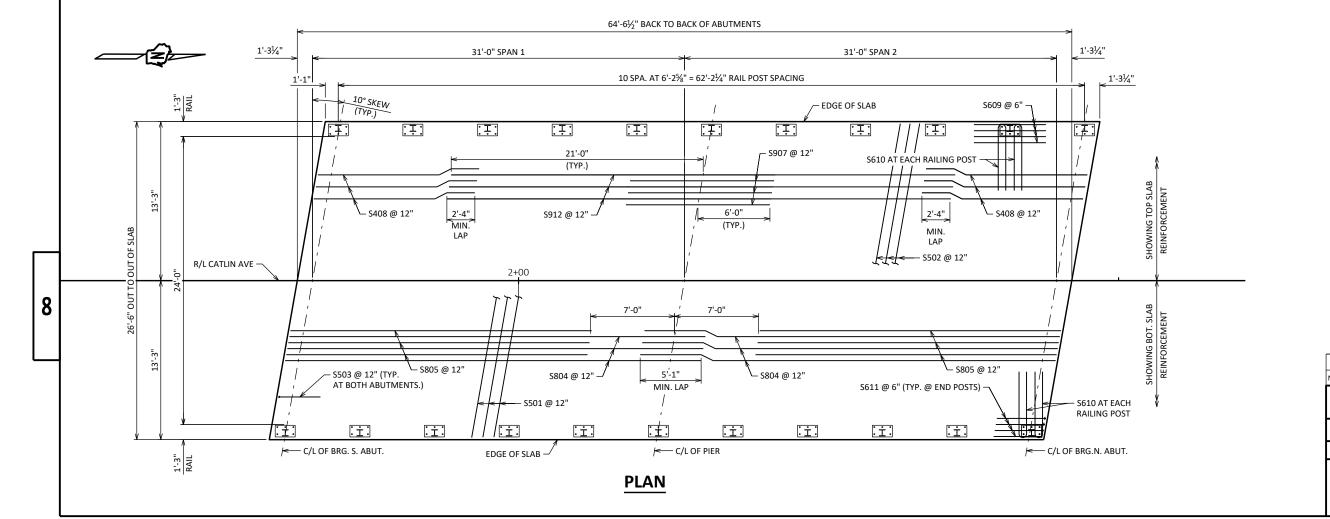


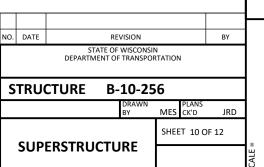
S408, S907 & S912 S502 S501 S804 & S805

SECTION F-F

CROSS SECTION THRU BRIDGE

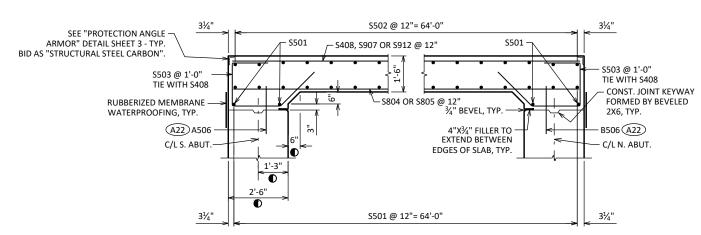
LOOKING NORTH





8

7856-00-71



CONC.)

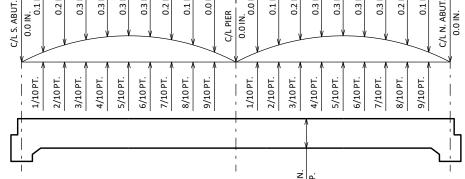
< ─ CAMBER

LONGITUDINAL SECTION DIMENSIONS ARE GIVEN PARALLEL TO C/L ROADWAY UNLESS OTHERWISE NOTED. MEASURED NORMAL TO THE C/L OF ABUTMENT. DIMENSIONS ARE TYPICAL FOR BOTH ABUTMENTS.

A506, B506 BARS SPACED @ 1'-0" CNTRS. MAY BE PLACED AFTER CONCRETE IS POURED BUT BEFORE INITIAL SET HAS TAKEN PLACE. (EMBED 1'-0" INTO

31'-0" SPAN 1 31'-0" SPAN 2

SLAB THICKENESS



CAMBER AND SLAB THICKNESS DIAGRAM

CAMBER SHOWN IS BASED ON 3 TIMES DEAD LOAD DEFLECTIONS. CAMBER SPANS AS SHOWN TO PROVIDE FOR DEAD LOAD DEFLECTION AND FUTURE CREEP. CAMBER DOES NOT INCLUDE ALLOWANCE FOR FORM SETTLEMENT.

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

TOP OF SLAB ELEVATION AT FINAL GRADE

SLAB THICKNESS LESS

PLUS CAMBER

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

TOP OF SLAB ELEVATIONS

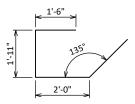
SPAN	LOCATION	C/L BRG. S. ABUT.	1/10 PT.	2/10 PT.	3/10 PT.	4/10 PT.	5/10 PT.	6/10 PT.	7/10 PT.	8/10 PT.	9/10 PT.	C/L PIER
	W. EDGE OF SLAB	1139.86	1139.85	1139.83	1139.82	1139.81	1139.80	1139.79	1139.78	1139.77	1139.76	1139.75
1	CROWN OR R/L	1140.15	1140.13	1140.12	1140.10	1140.09	1140.08	1140.06	1140.05	1140.04	1140.04	1140.03
	E. EDGE OF SLAB	1139.89	1139.87	1139.86	1139.84	1139.83	1139.81	1139.80	1139.79	1139.78	1139.77	1139.76

SPAN	LOCATION	C/L PIER	1/10 PT.	2/10 PT.	3/10 PT.	4/10 PT.	5/10 PT.	6/10 PT.	7/10 PT.	8/10 PT.	9/10 PT.	C/L BRG. N. ABUT.
	W. EDGE OF SLAB	1139.75	1139.75	1139.74	1139.74	1139.74	1139.73	1139.73	1139.73	1139.73	1139.73	1139.74
2	CROWN OR R/L	1140.03	1140.02	1140.02	1140.01	1140.01	1140.00	1140.00	1140.00	1140.00	1140.00	1140.01
	E. EDGE OF SLAB	1139.76	1139.76	1139.75	1139.74	1139.74	1139.74	1139.73	1139.73	1139.73	1139.73	1139.73

BILL OF BARS

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

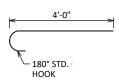
MARK	NO. REQ'D	LENGTH	BENT	BAR SERIES	LOCATION ORI			
	COATED BARS				TOTAL WEIGHT =	19540		
S501	69	26- 6			SLAB - BOTTOM	TRANS.		
S502	65	26- 6			SLAB - TOP	TRANS.		
S503	54	7- 2	Х		SLAB - TIES AT ABUTMENT	LONGIT.		
S804	54	34- 8			SLAB - BOTTOM	LONGIT.		
S805	52	25- 2			SLAB - BOTTOM	LONGIT.		
S907	27	12- 0			SLAB - TOP	LONGIT.		
S408	54	13- 6			SLAB - TOP	LONGIT.		
S609	72	6- 0			SLAB - INT. POSTS - 4 PER POST	LONGIT.		
S610	44	11- 0	Χ		SLAB - INT. & EXT. POSTS - 2 PER POST	TRANS.		
S611	16	4- 8	Χ		SLAB - EXT. POSTS - 4 PER POST	LONGIT.		
S912	27	42- 0			SLAB - TOP	LONGIT.		



S503



S610



S611

SURVEY TOP OF SLAB ELEVATIONS

LOCATION	ABUTMENT	5/10 PT.	PIER	5/10 PT.	ABUTMENT
W. GUTTER					
CROWN OR R/L					
E. GUTTER					

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

NOTES

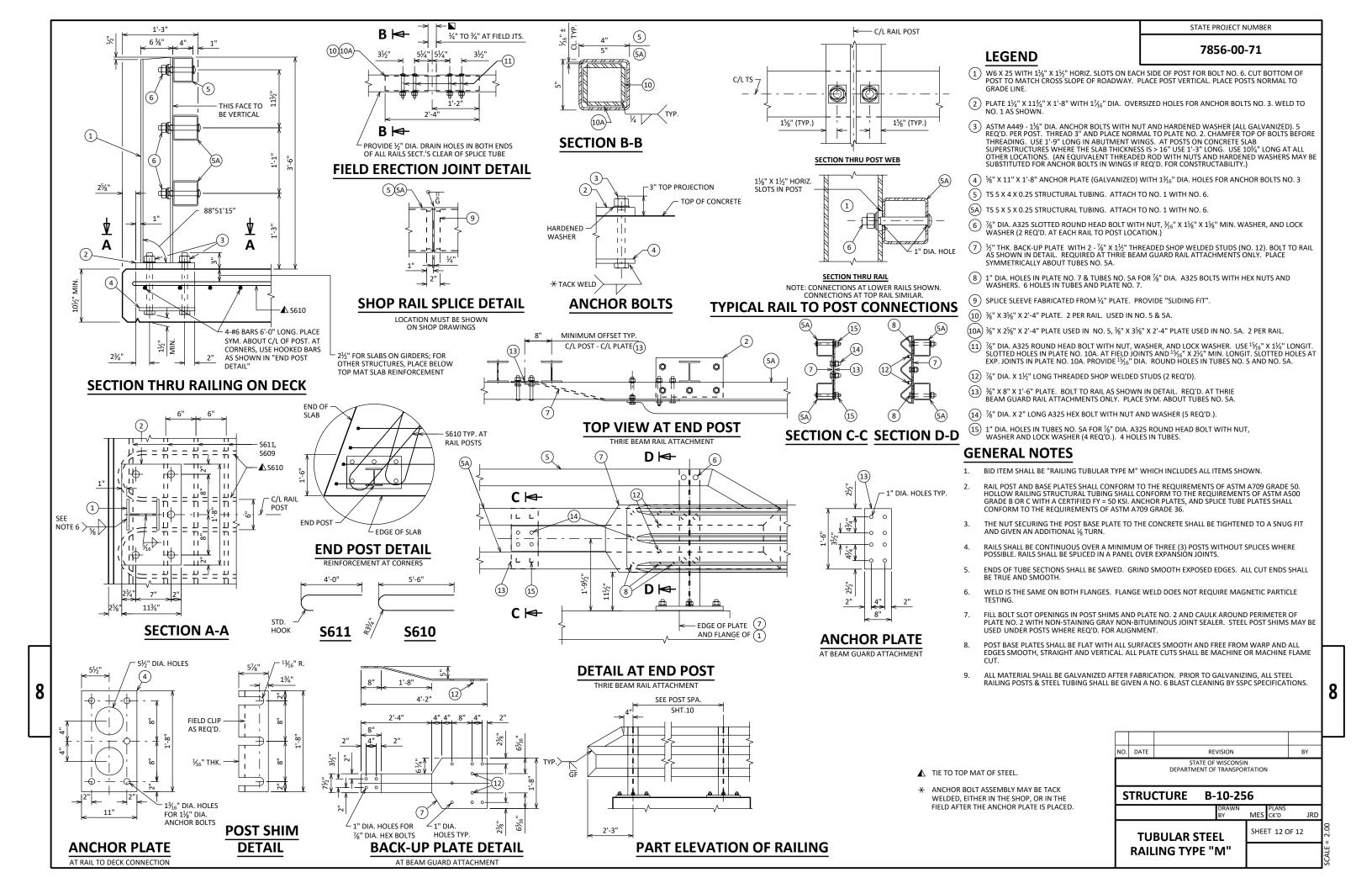
FILL IN THE TABLE OF "SURVEY TOP OF SLAB ELEVATIONS" FOE EACH SPAN ON AS BUILT PLANS.

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 APPROXIMATE 4'-0" CENTERS.

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

								L	
	NO.	DATE	RE	VISION			BY	Г	
OR	STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION								
5	STRUCTURE B-10-256								
ELY				DRAWN BY	MES	PLANS CK'D	JRD		
		SUP	ERSTRUCTU	JRE	SHEE	T 11 O	F 12],	
			DETAILS					SCALE:	
								•	

8



DIVISION - ALI CL CATLIN-SOUTH OF BRIDGE

	ALI_CL_CATEIN-30	AREA (SF)			INCR	EMENTAL VOL (CY) (UNADJU:	STED)	CUMULATIVE VOL (CY)			
STATION REAL STATION	REAL STATION	CUT	SALVAGED/UNUSABLE	FILL	CUT	SALVAGED/UNUSABLE PAVEMENT MATERIAL	FILL	CUT	EXPANDED FILL	MASS ORDINATE	
	COT	PAVEMENT MATERIAL	FILL		TAVEIVIENT IVIATENTAL		1.00	1.25			
					NOTE 1	NOTE 2	NOTE 3	NOTE 1		NOTE 8	
1+32.83	132.83	0.00	0.00	0.00	0	0	0	0	0	0	
1+35.00	135.00	39.39	0.00	29.73	2	0	1	2	1	1	
1+50.00	150.00	40.77	0.00	14.71	22	0	12	24	16	8	
1+75.00	175.00	44.35	0.00	22.68	39	0	17	63	38	26	
1+81.56	181.56	42.15	0.00	48.96	11	0	9	74	49	25	

DIVISION - ALI CL CATLIN-NORTH OF BRIDGE

DIVISION -	JIVISION - ALI_CL_CATEIN-NORTH OF BRIDGE										
		AREA (SF)			INCR	EMENTAL VOL (CY) (UNADJUS	STED)	CUMULATIVE VOL (CY)			
STATION REAL STATION	CUT	SALVAGED/UNUSABLE	FILL	CUT	SALVAGED/UNUSABLE PAVEMENT MATERIAL	FILL	CUT	EXPANDED FILL	MASS ORDINATE		
		COT	PAVEMENT MATERIAL	FILL		TAVEIVIENT IVIATENTAL		1.00	1.25		
					NOTE 1	NOTE 2	NOTE 3	NOTE 1		NOTE 8	
2+46.10	246.10	33.86	0.00	64.38	0	0	0	0	0	0	
2+50.00	250.00	33.98	0.00	62.39	5	0	9	5	11	-6	
2+75.00	275.00	37.29	0.00	39.34	33	0	47	38	70	-32	
2+90.00	290.00	38.46	0.00	36.06	21	0	21	59	96	-37	
2+94.83	294.83	0.00	0.00	0.00	3	0	3	62	100	-38	

NOTES:	
1 - CUT	CUT INCLUDES SALVAGED/UNUSABLE PAVEMENT MATERIAL
2 - SALVAGED/UNUSABLE PAVEMENT MATERIAL	NO SALVAGED/UNUSEABLE PAVEMENT MATERIAL DUE TO AGGREGATE SURFACE
3 - FILL	DOES NOT INCLUDE UNUSABLE PAVEMENT EXC VOLUME
8 - MASS ORDINATE	IF MARSH OR EBS TO BE BACKFILLED WITH COMMON OR BORROW: [(CUT - SALVAGED PAVT - EXPANDED MARSH EXC - EXPANDED EBS) - ((FILL - REDUCED MARSH IN FILL - REDUCED EBS IN FILL - EXPANDED ROCK) * FILL FACTOR)]
8 - MASS ORDINATE	IF MARSH AND EBS TO BE BACKFILLED WITH GRANULAR: [CUT - SALVAGED PAVT - ((FILL - REDUCED MARSH IN FILL - REDUCED EBS IN FILL - EXPANDED ROCK) * FILL FACTOR)]
8 - MASS ORDINATE	IF MARSH AND EBS TO BE BACKFILLED WITH COMMON OR BORROW: [(CUT - SALVAGED PAVT - EXPANDED MARSH EXC - EXPANDED EBS) - ((FILL - EXPANDED ROCK) * FILL FACTOR)]
8 - MASS ORDINATE	IF MARSH AND EBS TO BE BACKFILLED WITH GRANULAR: [CUT - SALVAGED PAVT - ((FILL - EXPANDED ROCK) * FILL FACTOR)]

PROJECT NO: 7856-00-71 SHEET Ε HWY: LOC STR COUNTY: CLARK EARTHWORK DATA

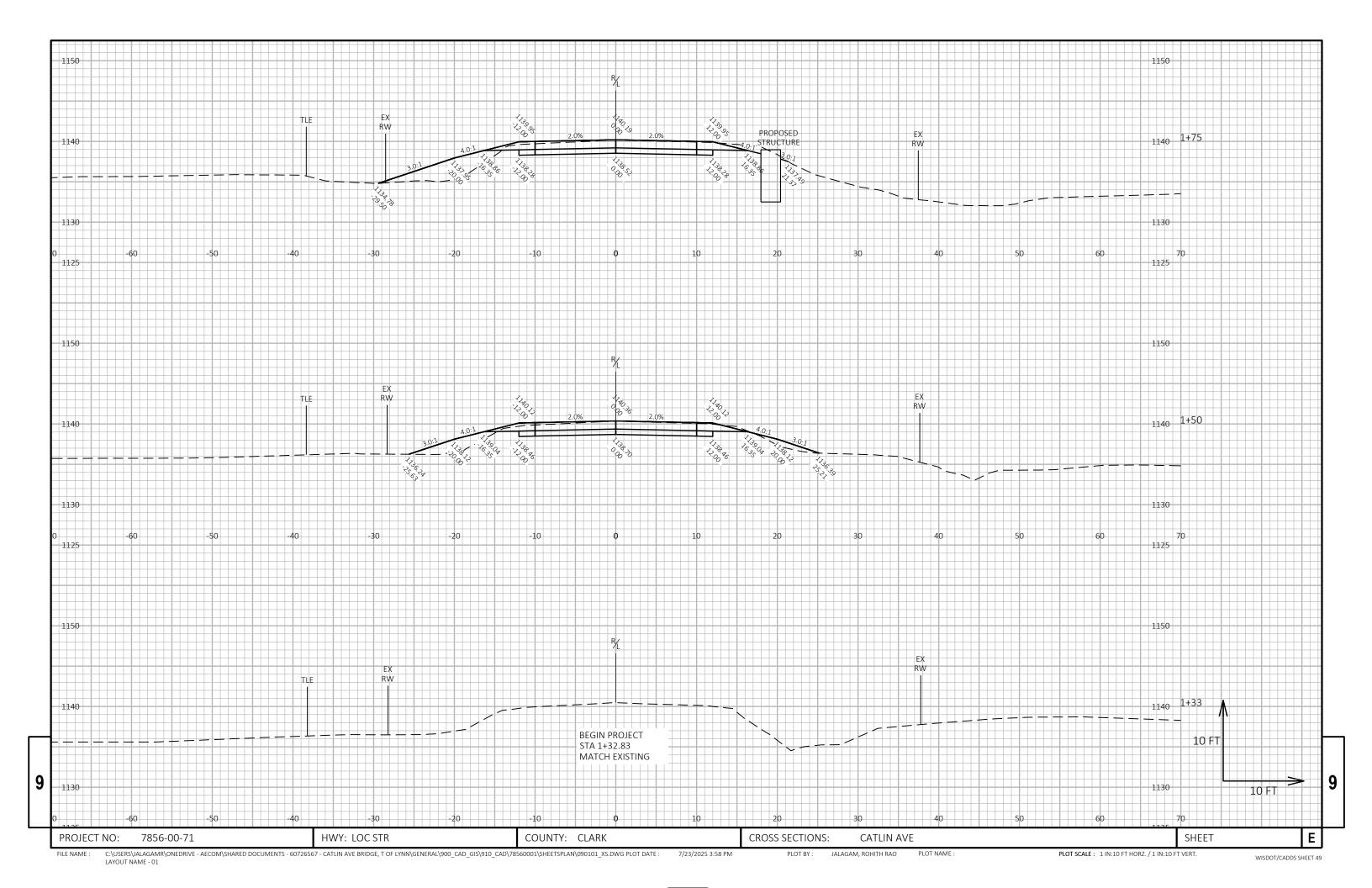
FILE NAME :

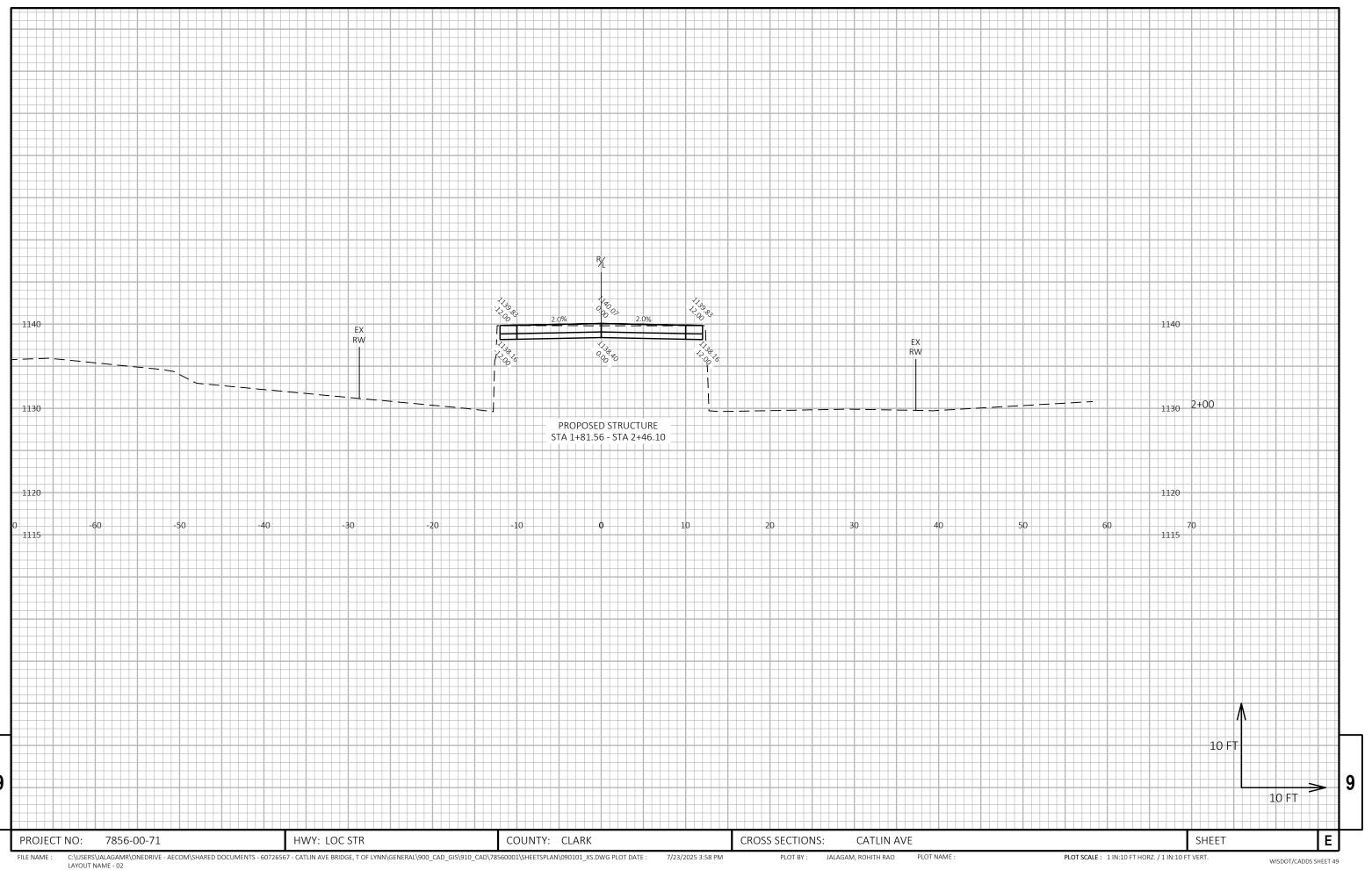
C:\USERS\JALAGAMR\ONEDRIVE - AECOM\SHARED DOCUMENTS - 60726567 - CATLIN AVE BRIDGE, T OF LYNN\GENERAL\900_CAD_GIS\910_CAD\78560001\SHEETSPLAN\090101-EW.DWGPLOT DATE : 7/23/2025 3:02 PM LAYOUT NAME - EW

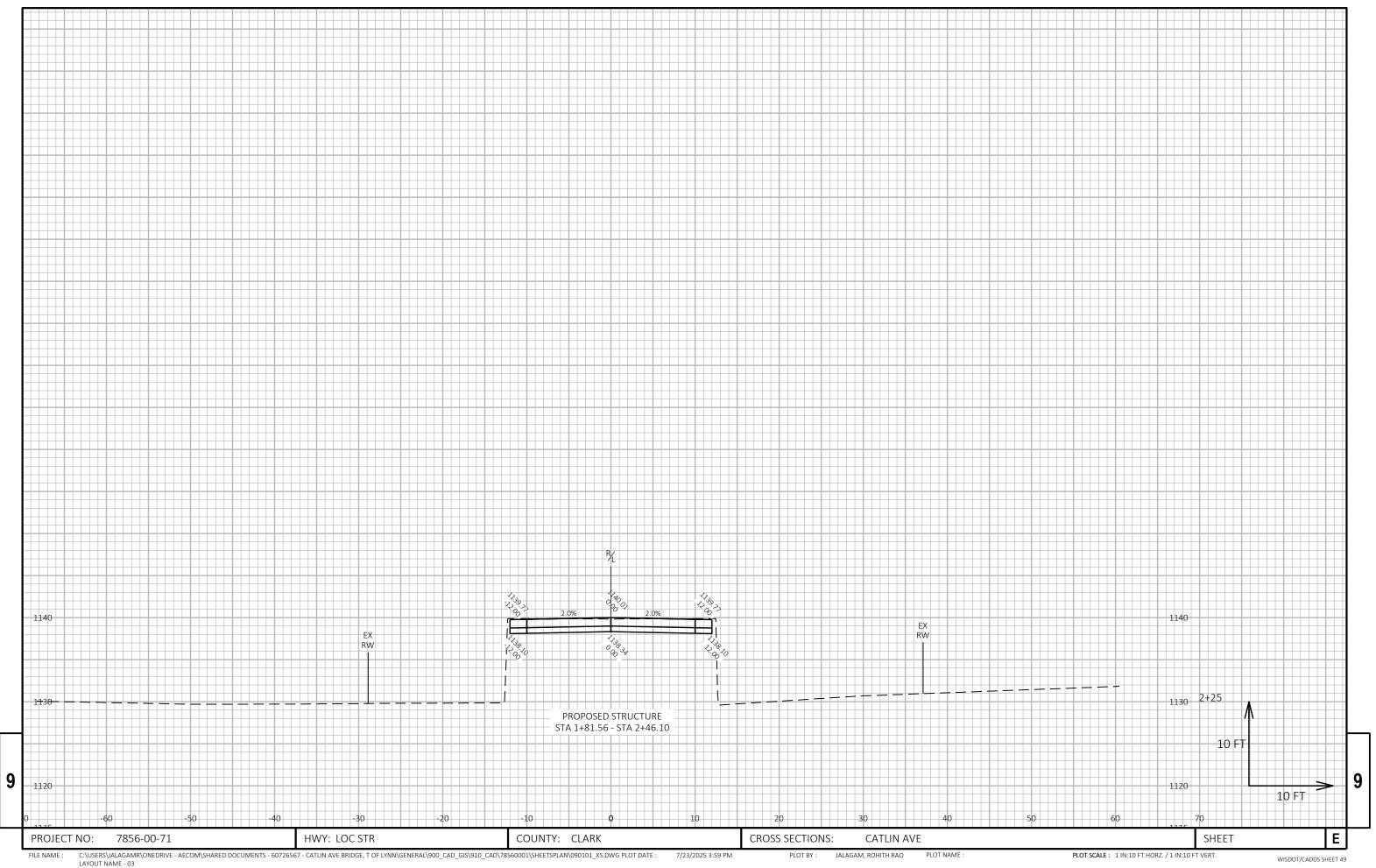
PLOT BY: JALAGAM, ROHITH RAO PLOT NAME:

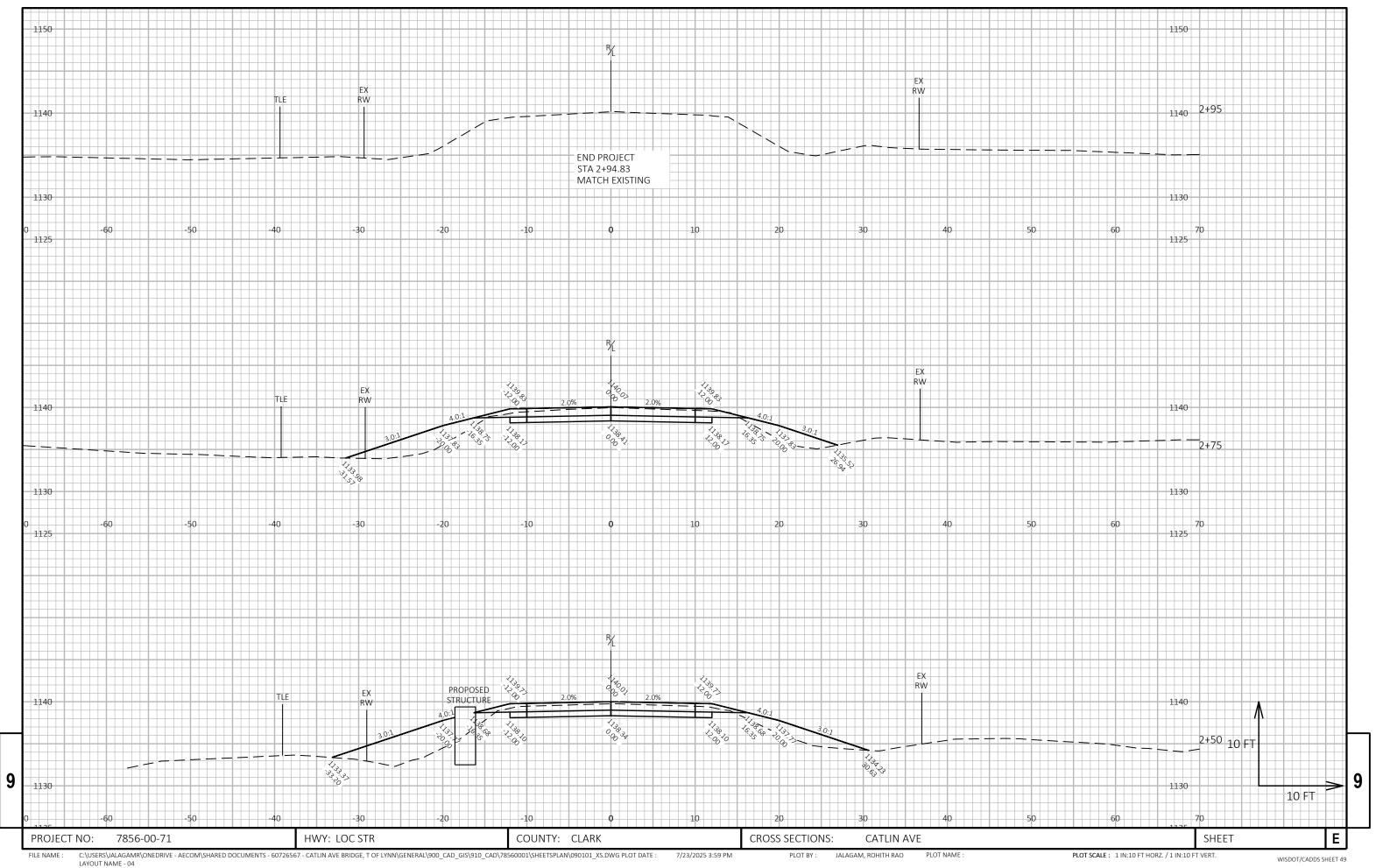
PLOT SCALE : 1" = 1'

9



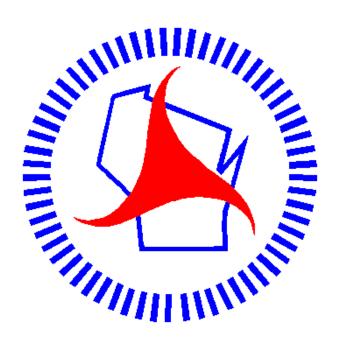






LAYOUT NAME - 04

Notes



Wisconsin Department of Transportation

Dedicated people creating transportation solutions through innovation and exceptional service.

http://www.dot.wisconsin.gov