2

STANDARD ABBREVIATIONS

AC ACRE INL INLET AGG AGGREGATE INV INVERT JCT AHEAD JUNCTION ΑН AADT ANNUAL AVERAGE DAILY TRAFFIC LT LEFT **ASPH ASPHALTIC** LENGTH OF CURVE AVG AVERAGE LIN FT or LF LINEAR FOOT ВК BACK LS LUMP SUM BAD BASE AGGREGATE DENSE NC NORMAL CROWN BM **BENCH MARK** Ν NORTH NB BR BRIDGE NORTHBOUND CL or C/L CENTER LINE NO NUMBER

PC CONC CONCRETE POINT OF CURVATURE CO COUNTY Ы POINT OF INTERSECTION РΤ CTH COUNTY TRUNK HIGHWAY POINT OF TANGENCY CR CREEK PCC PORTLAND CEMENT CONCRETE

PT

POINT

CABC CRUSHED AGGREGATE BASE COURSE LB POUND

COMMERCIAL ENTRANCE

CE

CSD COMMUNITY SENSITIVE DESIGN PΕ PRIVATE ENTRANCE CY or CUYD CUBIC YARD RADIUS CULV CULVERT RL or R/L REFERENCE LINE CP CULVERT PIPE RT RIGHT C & G **CURB AND GUTTER** R/W RIGHT-OF-WAY D RD ROAD DEGREE OF CURVE

DIA DIAMETER SHLDR SHOULDER DISCH DISCHARGE SB SOUTHBOUND EAST SF or SQ FT SQUARE FEET ΕB EASTBOUND SY or SQ YD SQUARE YARD EL or ELEV **ELEVATION** SDD STANDARD DETAIL DRAWINGS

EW ENDWALL STH STATE TRUNK HIGHWAYS ENT ENTRANCE SE SUPERELEVATION EXC **EXCAVATION** Τ **TANGENT** EX EXISTING TEMP **TEMPORARY** FERT FERTILIZER TWLTL TWO-WAY LEFT-TURN LANE FE FIELD ENTRANCE UG UNDERGROUND

FL or F/L FLOW LINE USH **UNITED STATES HIGHWAY** FT V FOOT VELOCITY OR DESIGN SPEED ΗE HIGHWAY EASEMENT VC VERTICAL CURVE HMA HOT MIX ASPHALT WB WESTBOUND CWT HUNDREDWEIGHT ΥD YARD

**GENERAL NOTES** 

- NO TREES OR SHRUBS SHALL BE REMOVED UNLESS SUCH TREES OR SHRUBS HAVE BEEN DESIGNATED FOR REMOVAL BY THE ENGINEER.
- DISTURBED AREAS WITHIN THE RIGHT OF WAY ARE TO BE SALVAGED TOPSOILED, FERTILIZED, SEEDED, AND E-MATTED AS DIRECTED BY THE ENGINEER.
- MATCH EXISTING DRIVEWAYS WITH IN-KIND MATERIALS.
- PAVING LIMITS ARE TO BE DETERMINED BY THE ENGINEER.
- THE LOCATIONS OF EXISTING AND PROPOSED UTILITY INSTALLATIONS AS SHOWN ON THE PLAN ARE APPROXIMATE. THERE MAY BE OTHER UTILITY INSTALLATIONS WITHIN THE PROJECT AREA THAT ARE NOT SHOWN.
- ASPHALT SURFACE TO BE PLACED IN LIFTS AS FOLLOWS: LOWER- 1.75" UPPER-1.75"
- SURFACE WEIGHT CALCULATIONS ARE BASED ON 115 LB/SY/IN.
- WHEN THE QUANTITY OF BASE AGGREGATE IS MEASURED FOR PAVEMENT BY THE TON OR CUBIC YARD, THE DEPTH OR THICKNESS OF THE LAYER SHOWN ON THE PLANS IS APPROXIMATE AND THE ACTUAL THICKNESS WILL DEPEND ON THE DISTRIBUTION OF THE MATERIAL AS DIRECTED BY THE ENGINEER.
- WHEN PORTIONS OF EXISTING ASPHALTIC SURFACES ARE TO BE REMOVED TO ACCOMMODATE NEW CONSTRUCTION, THE LINE OF SUCH REMOVAL SHALL BE NEATLY DELINEATED WITH A SAW CUT JOINT THROUGH THE ASPHALTIC SURFACE SO THAT REMOVAL OF THE ASPHALT SHALL BE ACCOMPLISHED WITHOUT DAMAGE TO REMAINING PORTIONS. THE LOCATION OF SAW JOINTS AND THE AMOUNT REMOVED AT SIDE ROADS WILL BE DETERMINED IN THE FIELD BY THE ENGINEER.

#### **UTILITY CONTACTS**

CENTURYLINK
COMMUNICATION
ELECTRIC
BRIAN STELPLUGH
333 N FRONT ST
N28988 STATE ROAD 93
LA CROSSE, WI 54601
ARCADIA WI 54612-0277
(608) 780-1238
BRIAN.STELPLUGH@CENTURYLINK.COM
THOLTAN@RIVERLANDENERGY.COM

#### **AREA CONTACTS**

WISOOT PROJECT MANAGER

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718 W. CLAIREMONT AVE.

EAU CLAIRE, WI 54701

(715) 225-4159

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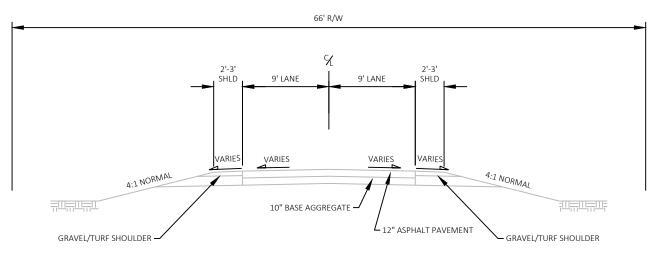
TREMPEALEAU COUNTY HIGHWAY DEPT AL RINKA W20699 STATE ROAD 121 WHITEHALL, WI 54733 (715) 538-9402 AL.RINKA@CO.TREMPEALEAU.WI.US DESIGN CONTACT
KNIGHT E/A, INC.
RYAN MCKANE, PE
831 CRITTER COURT
ONALASKA, WI 54650
(608) 713-9274
RMCKANE@KNIGHTEA.COM



PROJECT NO: 7286-00-70 HWY: BRADLEY RD COUNTY: TREMPEALEAU GEN NOTES, STAND ABBR, & CONTACTS SHEET **E** 

FILE NAME : \_\_\_\_\_ PLOT DATE : \_\_\_\_ PLOT BY : \_\_\_\_ PLOT NAME : \_\_\_\_ ORG DATE : \_\_\_\_ ORIGINATOR : DIST \_ PLOT SCALE : 1:1

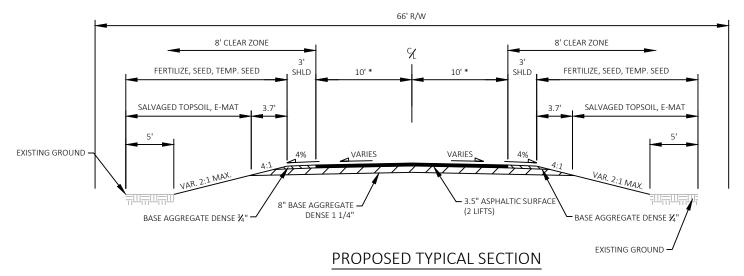
WISDOT/CADDS SHEET 42



#### **EXISTING TYPICAL SECTION**

STA 9+32.25 - STA 9+88.00 STA 10+13.00 - STA 10+67.75

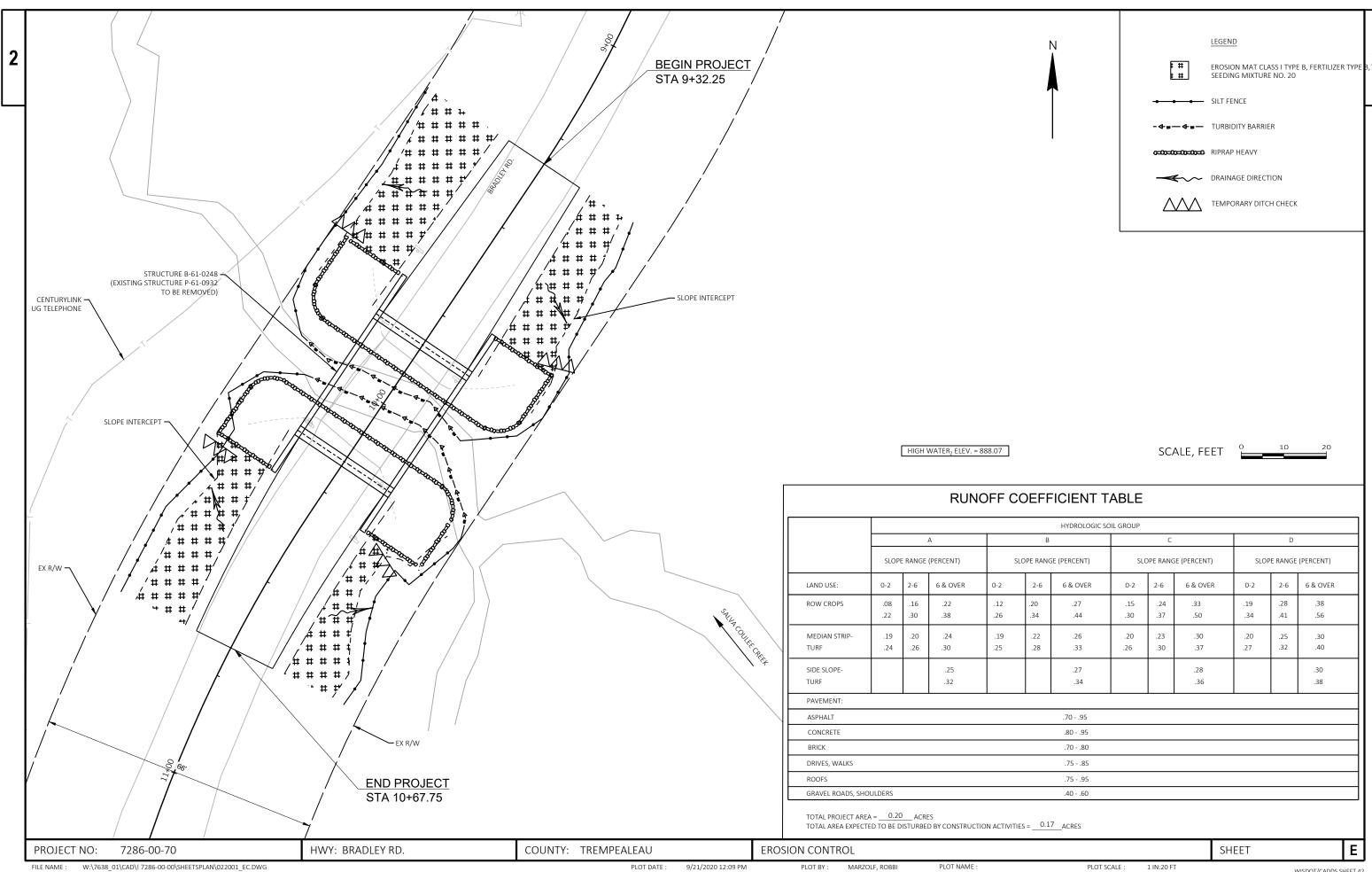
NOTE: THICKNESS BASED ON BORINGS TAKEN.



STA 9+32.25 - STA 9+82.25 STA 10+17.75 - STA 10+67.75

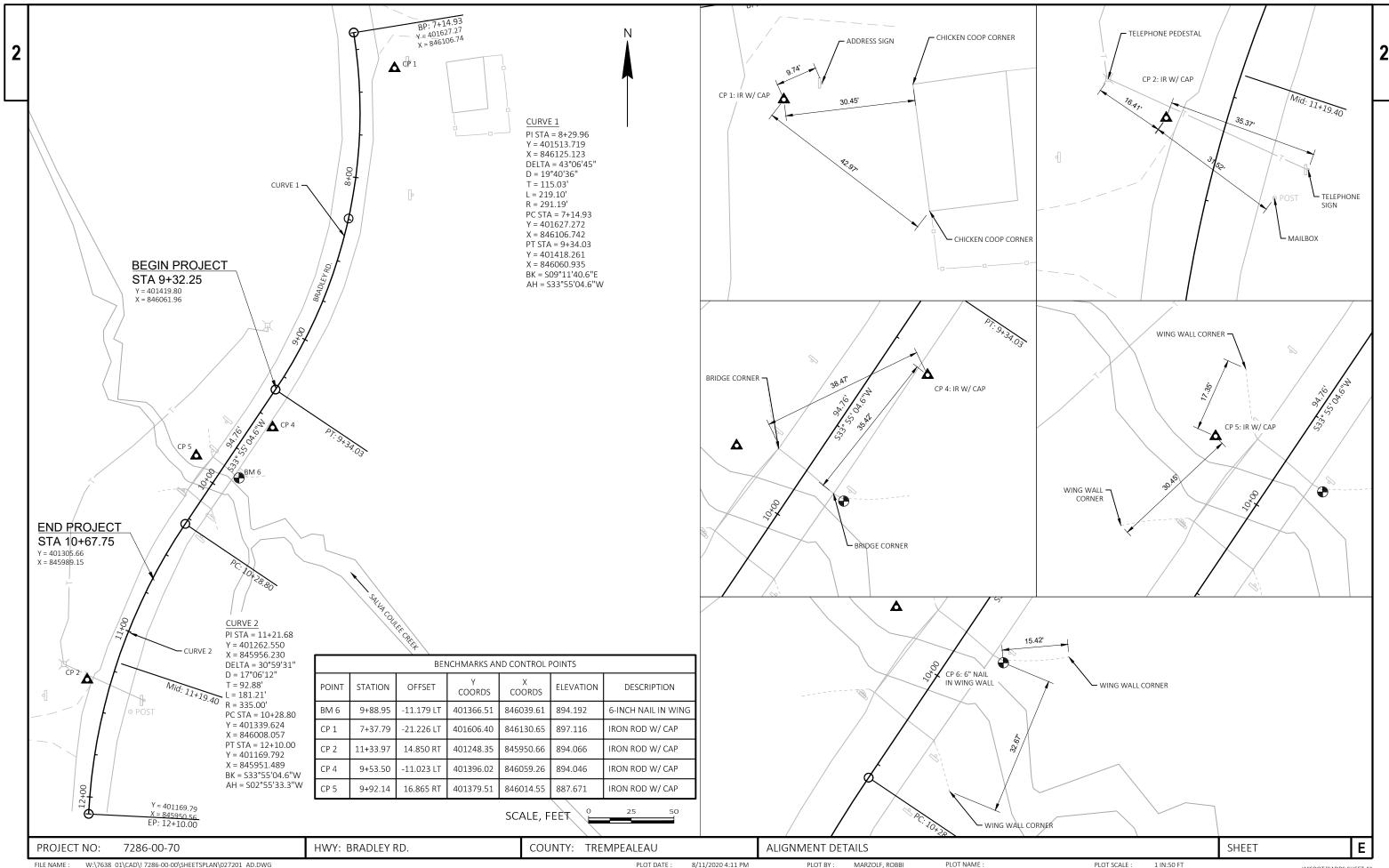
\*NOTE: ASPHALTIC SURFACE SHALL BE PLACED 26.5' WIDE AT ENDS OF BRIDGE AND TAPER TO 20' WIDE AT ROADWAY 50' FROM THE

Ε PROJECT NO: 7286-00-70 HWY: BRADLEY RD. COUNTY: TREMPEALEAU TYPICAL SECTIONS SHEET W:\7638\_01\CAD\! 7286-00-00\SHEETSPLAN\020301\_TS.DWG PLOT DATE : PLOT BY : MARZOLF, ROBBI PLOT NAME : PLOT SCALE : 1 IN:10 FT FILE NAME : 9/21/2020 8:08 AM



LAYOUT NAME - Plan 1 IN 20 FT

WISDOT/CADDS SHEET 42



### **Estimate Of Quantities**

7286-00-70	

					7286-00-70	
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	203.0600.S	Removing Old Structure Over Waterway With Minimal Debris (station) 01. 10+00	LS	1.000	1.000	
8000	205.0100	Excavation Common	CY	112.000	112.000	
0010	206.1000	Excavation for Structures Bridges (structure) 01. B-61-0248	LS	1.000	1.000	
0012	208.0100	Borrow	CY	20.000	20.000	
0014	210.1500	Backfill Structure Type A	TON	190.000	190.000	
0016	213.0100	Finishing Roadway (project) 01. 7286-00-70	EACH	1.000	1.000	
0018	305.0110	Base Aggregate Dense 3/4-Inch	TON	18.000	18.000	
0020	305.0120	Base Aggregate Dense 1 1/4-Inch	TON	166.000	166.000	
0022	455.0605	Tack Coat	GAL	14.000	14.000	
0024	465.0105	Asphaltic Surface	TON	48.000	48.000	
0026	502.0100	Concrete Masonry Bridges	CY	99.000	99.000	
0028	502.3200	Protective Surface Treatment	SY	124.000	124.000	
0030	505.0400	Bar Steel Reinforcement HS Structures	LB	3,360.000	3,360.000	
0032	505.0600	Bar Steel Reinforcement HS Coated Structures	LB	15,520.000	15,520.000	
0034	513.4061	Railing Tubular Type M	LF	116.000	116.000	
0036	516.0500	Rubberized Membrane Waterproofing	SY	14.000	14.000	
0038	550.1100	Piling Steel HP 10-Inch X 42 Lb	LF	690.000	690.000	
0040	606.0300	Riprap Heavy	CY	124.000	124.000	
0042	612.0406	Pipe Underdrain Wrapped 6-Inch	LF	156.000	156.000	
0044	618.0100	Maintenance And Repair of Haul Roads (project) 01. 7286-00-70	EACH	1.000	1.000	
0046	619.1000	Mobilization	EACH	1.000	1.000	
0048	624.0100	Water	MGAL	4.000	4.000	
0050	625.0500	Salvaged Topsoil	SY	220.000	220.000	
0052	628.1504	Silt Fence	LF	285.000	285.000	
0054	628.1520	Silt Fence Maintenance	LF	285.000	285.000	
0056	628.1905	Mobilizations Erosion Control	EACH	3.000	3.000	
0058	628.1910	Mobilizations Emergency Erosion Control	EACH	3.000	3.000	
0060	628.2004	Erosion Mat Class I Type B	SY	220.000	220.000	
0062	628.6005	Turbidity Barriers	SY	50.000	50.000	
0064	628.7504	Temporary Ditch Checks	LF	40.000	40.000	
0066	629.0210	Fertilizer Type B	CWT	0.500	0.500	
0068	630.0120	Seeding Mixture No. 20	LB	9.000	9.000	
0070	630.0200	Seeding Temporary	LB	9.000	9.000	
0072	630.0500	Seed Water	MGAL	13.000	13.000	
0074	634.0612	Posts Wood 4x6-Inch X 12-FT	EACH	4.000	4.000	

0110

### **Estimate Of Quantities**

Page 2

					7286-00-70	
Line	Item	Item Description	Unit	Total	Qty	
0076	637.2230	Signs Type II Reflective F	SF	12.000	12.000	
0078	638.2602	Removing Signs Type II	EACH	7.000	7.000	
0800	638.3000	Removing Small Sign Supports	EACH	7.000	7.000	
0082	642.5001	Field Office Type B	EACH	1.000	1.000	
0084	643.0420	Traffic Control Barricades Type III	DAY	804.000	804.000	
0086	643.0705	Traffic Control Warning Lights Type A	DAY	1,608.000	1,608.000	
8800	643.0900	Traffic Control Signs	DAY	938.000	938.000	
0090	643.5000	Traffic Control	EACH	1.000	1.000	
0092	645.0111	Geotextile Type DF Schedule A	SY	150.000	150.000	
0094	645.0120	Geotextile Type HR	SY	373.000	373.000	
0096	650.4500	Construction Staking Subgrade	LF	100.000	100.000	
0098	650.5000	Construction Staking Base	LF	100.000	100.000	
0100	650.6500	Construction Staking Structure Layout (structure) 01. B-61-0248	LS	1.000	1.000	
0102	650.9910	Construction Staking Supplemental Control (project) 01. 7286-00-70	. LS	1.000	1.000	
0104	650.9920	Construction Staking Slope Stakes	LF	100.000	100.000	
0106	690.0150	Sawing Asphalt	LF	36.000	36.000	
0108	715.0502	Incentive Strength Concrete Structures	DOL	594.000	594.000	

71.000

LF

SPV.0090 Special 01. Flashing Stainless Steel

71.000

PROJECT TOTALS =

CATEGORY STATION TO STATION

9+50 - 10+50

0010

CLEARING GRUBBING

201.0105 201.0205 STA REMARKS LOCATION STA BRADLEY RD 1

					ASPHALTIC		
					SURFACE	TACK COAT	
					465.0105	455.0605	
CATEGORY	STATION	TO	STATION	LOCATION	TON	GAL	REMARKS
0010	9+33	_	10+68	BINDER LAYER	24	14	
0010	9+33	_	10+68	SURFACE LAYER	24	=	

PROJECT TOTALS =

**ASPHALT ITEMS SUMMARY** 

#### **EXCAVATION SUMMARY**

EXCAVATION COMMON BORROW 205.0100 208.0100 CATEGORY STATION TO STATION LOCATION CY CY REMARKS 9+33 - 9+83 53 20 0010 BRADLEY RD 0010 59 10+18 - 10+68 0 BRADLEY RD 112 20

#### **WATER**

14

MOBILIZATIONS

624.0100 LOCATION CATEGORY MGAL REMARKS 0010 BRADLEY RD **SHOULDERS** 0010 BRADLEY RD ROADWAY PROJECT TOTAL =

#### **EROSION CONTROL MOBILIZATION SUMMARY**

#### BASE AGGREGATE DENSE SUMMARY

BASE AGGREGATE BASE AGGREGATE DENSE 3/4-INCH DENSE 1 1/4-INCH 305.0110 305.0120

					000.00		
CATEGORY	STATION	TO	STATION	LOCATION	TON	TON	REMARKS
0010	9+33	_	9+83	NORTH APPROACH	9	-	LT & RT
0010	10+18	_	10+68	SOUTH APPROACH	9	_	LT & RT
0010	9+33	_	9+83	NORTH APPROACH	-	83	LT & RT
0010	10+18	-	10+68	SOUTH APPROACH	-	83	LT & RT
				PROJECT TOTALS =	18	166	

		MOBILIZATIONS EROSION CONTROL 628.1905	EMERGENCY EROSION CONTROL 628.1910	
CATEGORY	LOCATION	EACH	EACH	REMARKS
0010	PROJECT LIMITS	3	3	_
	PROJECT TOTALS =	3	3	_

PROJECT NO: 7286-00-70 COUNTY: TREMPEALEAU SHEET HWY: BRADLEY RD MISCELLANEOUS QUANTITIES

#### **EROSION CONTROL SUMMARY**

ı									EROSION		TEMPORARY			SEEDING		
I						SALVAGED	SILT	SILT FENCE	MAT CLASS	TURBIDITY	DITCH	FERTILIZER	SEEDING	MIXTURE	SEED	
I						TOPSOIL	FENCE	MAINENANCE	I TYPE B	BARRIERS	CHECKS	TYPE B	TEMPORARAY	NO. 20	WATER	
1						625.0500	628.1504	628.1520	628.2004	628.6005	628.7504	629.0210	630.0200	630.0120	630.0500	
I	CATEGORY	STATION	TO	STATION	LOCATION	SY	LF	LF	SY	SY	LF	CWT	LB	LB	MGAL	REMARK
I	0010				NORTH OF STREAM	-	_	-	-	23	-	_	_	_	_	
١	0010				SOUTH OF STREAM	-	-	-	-	27	-	_	_	_	_	
I	0010	9+32	-	9+98	NW QUAD	71	68	68	71	-	10	0.1	2	2	4	
I	0010	9+32	-	9+97	NE QUAD	52	73	73	52	-	10	0.1	2	2	3	
1	0010	10+05	-	10+68	SW QUAD	53	76	76	53	-	10	0.1	2	2	3	
I	0010	10+13	_	10+68	SE QUAD	37	59	59	37	-	10	0.1	1	1	2	
	0010				UNDISTRIBUTED	7	9	9	7	-	-	0.1	2	2	1	
					PROJECT TOTALS =	220	285	285	220	50	40	0.5	0	9	13	

#### PERMANENT SIGN SUMMARY

CAT	SIGN		1.00		SIZE		SIGN	DESCRIPTION	POSTS WOOD 4X6-INCH X 12-FT 634.0612	SIGNS TYPE II REFLECTIVE F 637.2230	REMOVING SIGNS TYPE II 638.2602	REMOVING SMALL SIGNS SUPPORTS 638.3000	DEMARKS
CAT	NO.	STA	LOC.	IN	Х	IN	CODE	DESCRIPTION	EACH	SF	EACH	EACH	REMARKS
0010	1	9+66	RT	24	X	30	R12-1	WEIGHT LIMIT 20 TONS	-	-	1	1	
0010	2	9+84	RT	12	Χ	36	W5-52R	BRIDGE HASH MARKS	1	3	1	1	
0010	3	9+86	LT	12	Χ	36	W5-52L	BRIDGE HASH MARKS	1	3	1	1	
0010	4	10+13	RT	12	Χ	36	W5-52L	BRIDGE HASH MARKS	-	-	1	1	
0010	5	10+13	RT	12	Χ	36	W5-52L	BRIDGE HASH MARKS	1	3	1	1	
0010	6	10+16	LT	12	Χ	36	W5-52R	BRIDGE HASH MARKS	1	3	1	1	
0010	7	10+30	LT	24	X	30	R12-1	WEIGHT LIMIT 20 TONS	-	-	1	1	
								PROJECT TOTAL =	4	12	7	7	

#### TRAFFIC CONTROL SUMMARY

		TYP	ICADES E III 5.0420	TYF	G LIGHTS PE A .0705		GNS . 0900	TRAFFIC CONTROL 643.5000	
CATEGORY	LOCATION	NO.	DAYS	NO.	DAYS	NO.	DAYS	EACH	REMARKS
0010	BRADLEY RD	12	804	24	1608	14	938	1	PER SDD BARRICADES AND SIGN FOR VARIOUS CLOSURES
	PROJECT TOTAL =		804		1,608		938	1	

PROJECT NO: 7286-00-70 HWY: BRADLEY RD COUNTY: TREMPEALEAU MISCELLANEOUS QUANTITIES SHEET E

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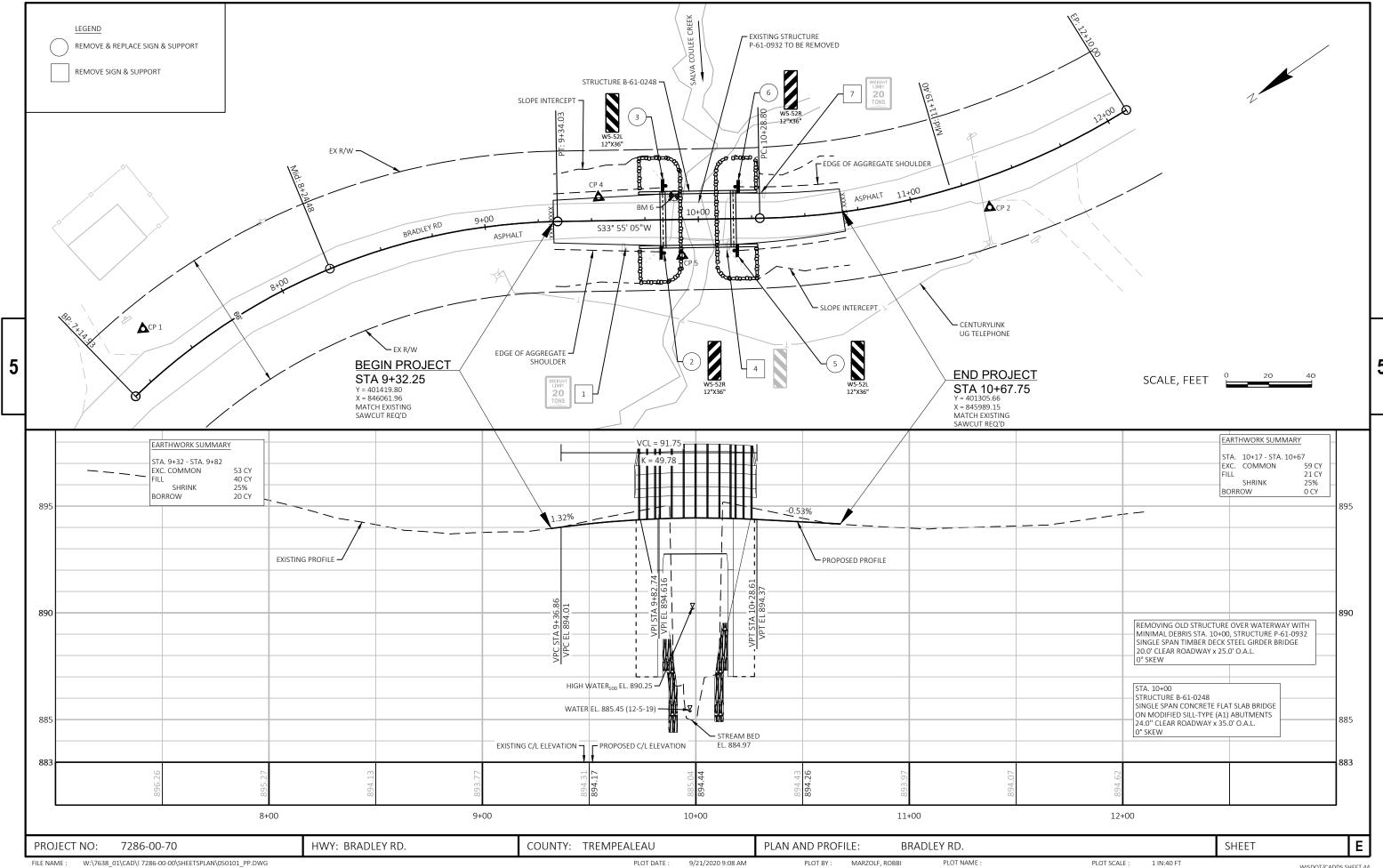
#### CONSTRUCTION STAKING SUMMARY

				PROJECT TOTAL =	100	100	1	1	100	
001	0 9+33	-	10+68	BRADLEY RD	100	100	1	1	100	
CA	Γ STA	TO	STA	DESCRIPTION	LF	LF	LS	LS	LF	REMARKS
					650.4500	650.5000	650.6500	650.9910	650.9920	
					STAKING SUBGRADE	CONSTRUCTION STAKING BASE	LAYOUT (STRUCTURE) 01. B-61-248	CONTROL (PROJECT) 01. 7286-00-70	STAKING SLOPE STAKES	
					CONSTRUCTION		STAKING STRUCTURE	SUPPLEMENTAL	CONSTRUCTION	
							CONSTRUCTION	STAKING		
								CONSTRUCTION		

#### **SAWING ASPHALT**

			690.0150	
CATEGORY	STATION	LOCATION	LF	REMARKS
0010	9+32.25	ВОР	18	
0010	10+67.75	EOP	18	
		PROJECT TOTAL	= 36	

PROJECT NO: 7286-00-70 HWY: BRADLEY RD COUNTY: TREMPEALEAU MISCELLANEOUS QUANTITIES SHEET E



## Standard Detail Drawing List

EMPORARY DITCH CHECKS
DES 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

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STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION

APPROVED

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

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## TYPICAL APPLICATION OF SILT FENCE

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### PLAN VIEW SILT FENCE AT MEDIAN SURFACE DRAINS



#### **GENERAL NOTES**

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

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



TRENCH DETAIL



SILT FENCE TIE BACK

(WHEN REQUIRED BY THE ENGINEER)



SILT FENCE

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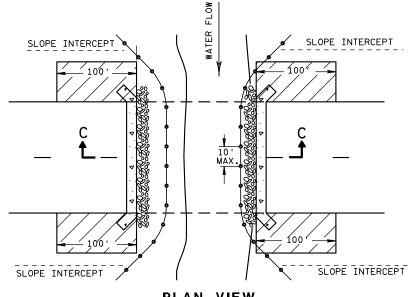
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#### **GENERAL NOTES**

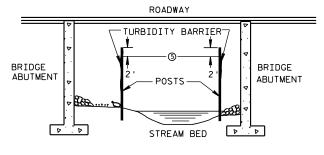
DETAILS OF CONSTRUCTION, MATERIALS AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS AND THE APPLICABLE SPECIAL PROVISIONS.

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

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



**PLAN VIEW** 



SECTION C-C

TURBIDITY BARRIER DETAIL SHOWING TYPICAL PLACEMENT AT STRUCTURES

#### TURBIDITY BARRIER

STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION

APPROVED

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

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#### TYPICAL NAME PLATE

(BRIDGES, CULVERTS, AND RETAINING WALLS)



NUMBERING DESIGNATION MULTI-UNIT STRUCTURES

#### **GENERAL NOTES**

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

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

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



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

SECTION A-A

ALTERNATE LUG



ALTERNATE LUG

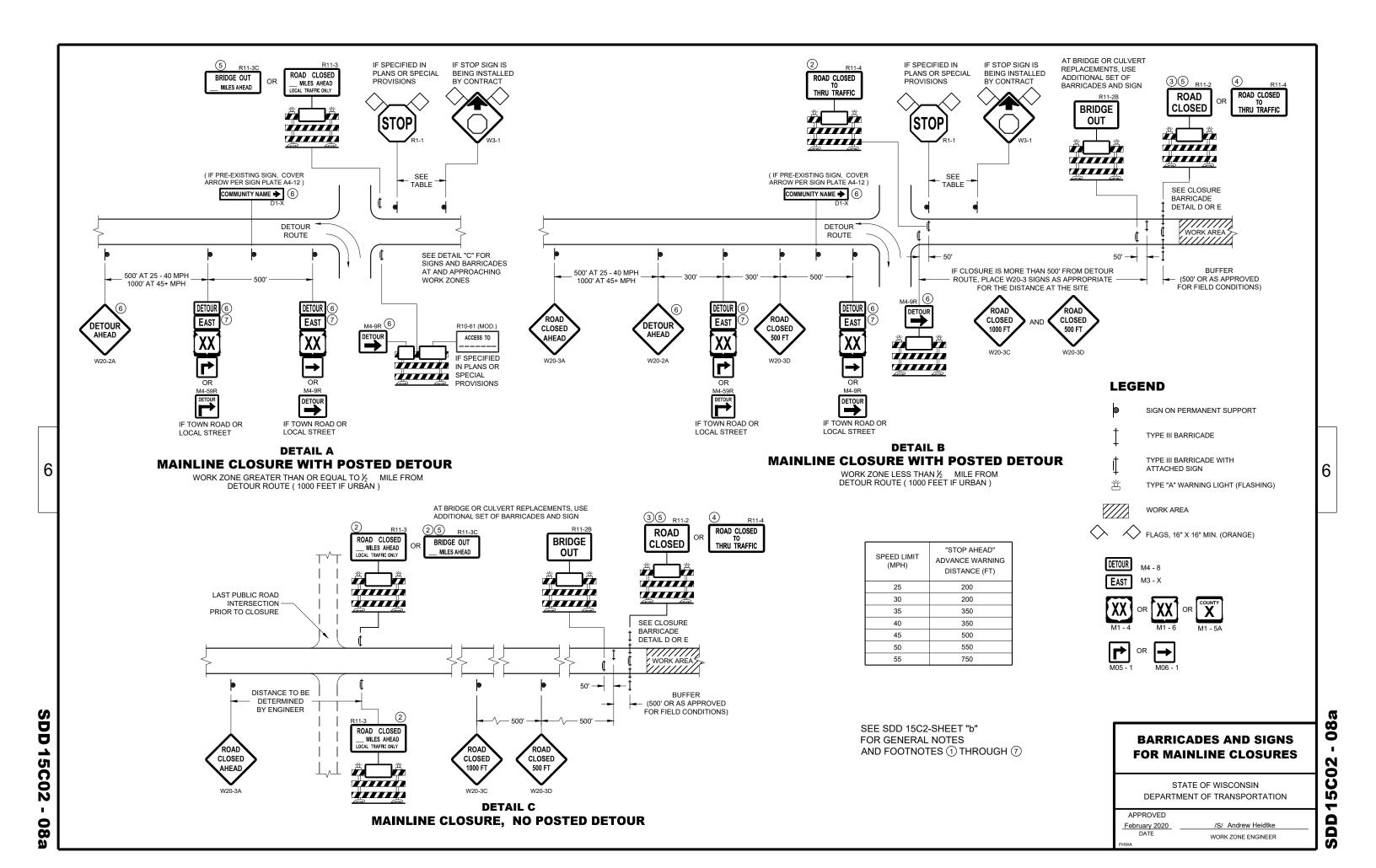
(FOR ATTACHMENT TO PRECAST STRUCTURES)

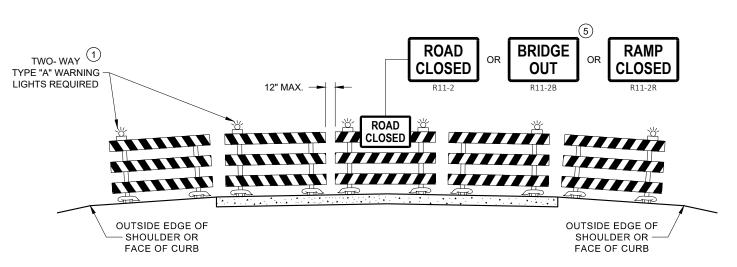
## NAME PLATE (STRUCTURES)

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

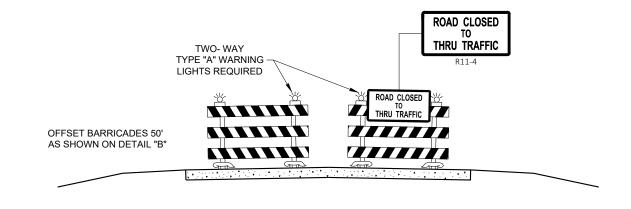
APPROVED

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# 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 <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

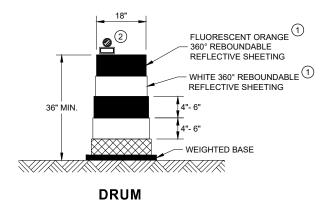
February 2020
DATE

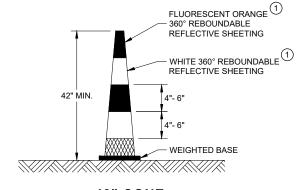
/S/ Andrew Heidtke
WORK ZONE ENGINEER

DD 15C02 - 08

#### **GENERAL NOTES**

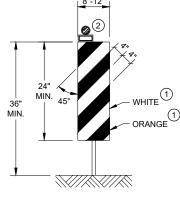
- (1) REFLECTIVE SHEETING SHALL FOLLOW THE REQUIREMENTS IN THE APPROVED PRODUCTS LISTING FOR SIGN SHEETING.
- (2) LOCATION OF WARNING LIGHTS WHEN SHOWN ON THE PLAN.





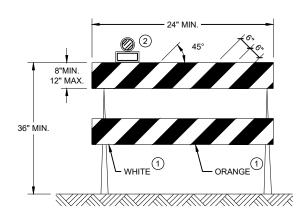
**42" CONE** DO NOT USE IN TAPERS

½ SPACING OF DRUMS



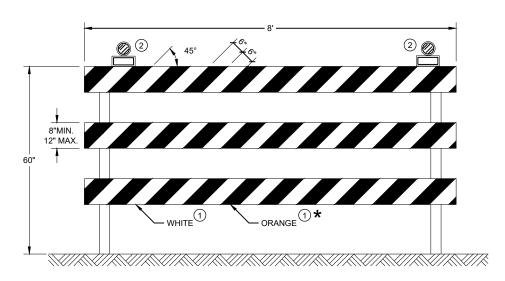
## **VERTICAL PANEL**

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 07

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SDD

APPROVED	
June 2017	/S/ Andrew Heidtke
DATE	WORK ZONE ENGINEER
FHWA	



TUBULAR STEEL POSTS

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

POST MOUNTING DETAIL FOR TEMPORARY TRAFFIC CONTROL FIXED MESSAGE SIGNS

WOOD POST **EMBEDMENT DEPTH** 

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

4" X 6" WOOD POST

POST SPACING REQUIREM	NUMBER OF		
L	E	WOOD POSTS 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)

RURAL AREA

TEMPORARY TRAFFIC CONTROL SIGN MOUNTING

STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION

-11

D 15 D  $\infty$ 

6

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6

- 11/2" DIAMETER HOLES

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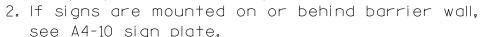
STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION

> /S/ Andrew Heidtke WORK ZONE ENGINEER

APPROVED

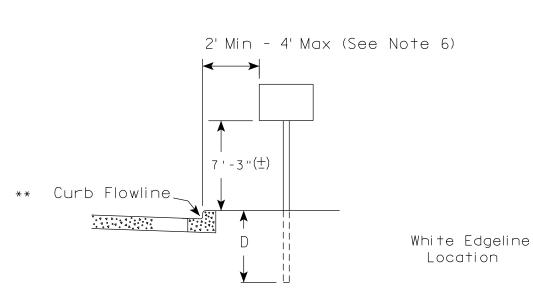
June 2017 DATE

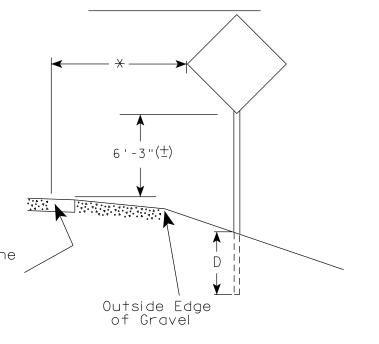




The Double Arrow sign (W12-1D) shall be mounted at a height of 2'-3" (±). The Chevron sign (W1-8), Roundabout Chevron panel (R6-4B), Enhanced Reference Markers, Clearance Markers (W5-52). Mile Markers (D10 series). In Road Object Markers (W5-54) & End of Road Markers (W5-56) shall be mounted at a height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

- 3. For expressways and freeways, mounting height is  $7'-3''(\pm)$  or  $6'-3''(\pm)$  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



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

ATTACHMENT OF SIGNS
TO POSTS

WISCONSIN DEPT OF TRANSPORTATION

APPROVED

Nather R Raw
For State Traffic Engineer

DATE <u>8/11/16</u>

PLATE NO. <u>44-8.8</u>

PROJECT NO:

FILE NAME : C:\CAFfiles\Projects\tr stdplote\A48 DCN

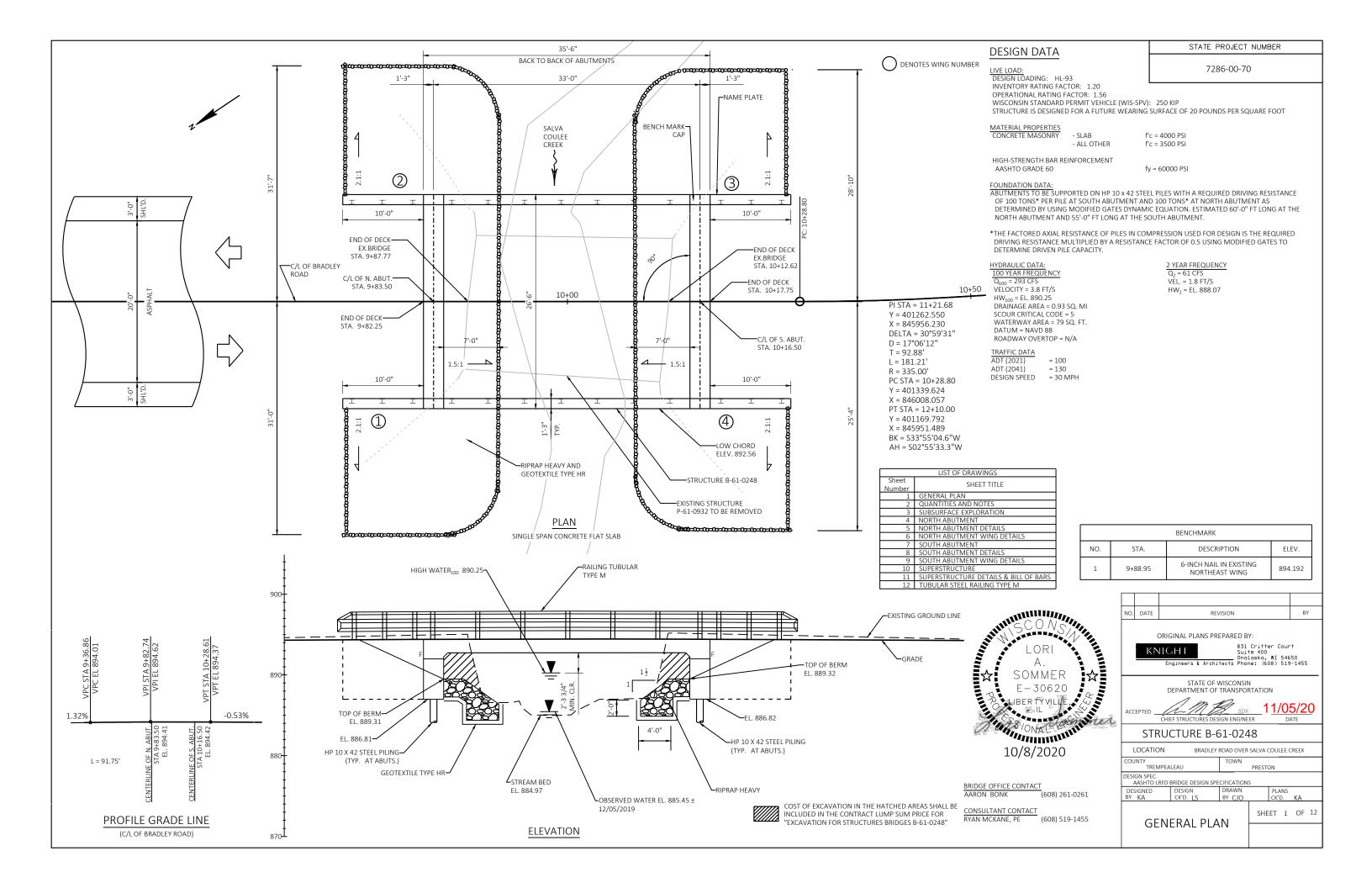
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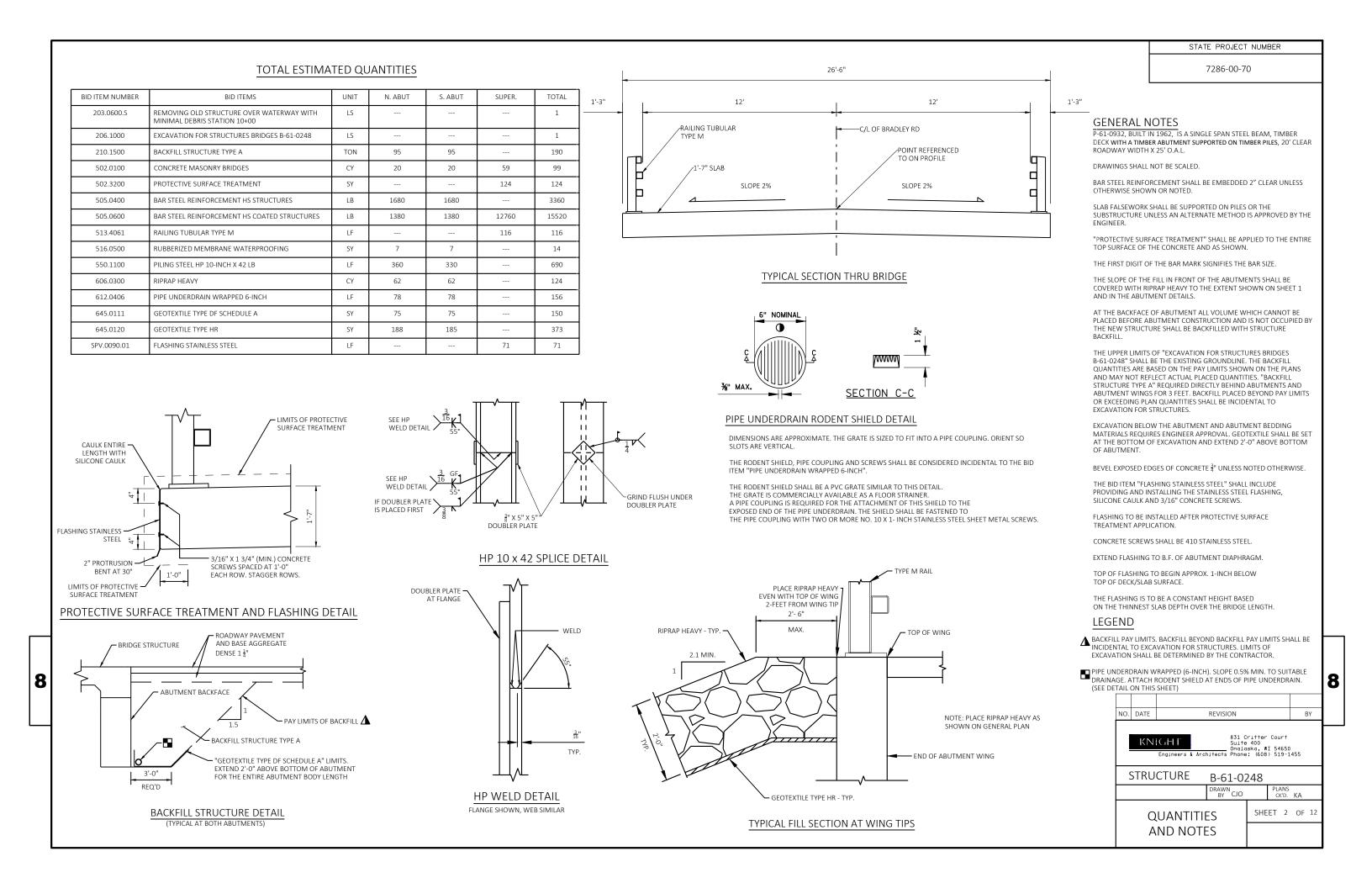
PINT RY \* \$\$ nintuser \$\$

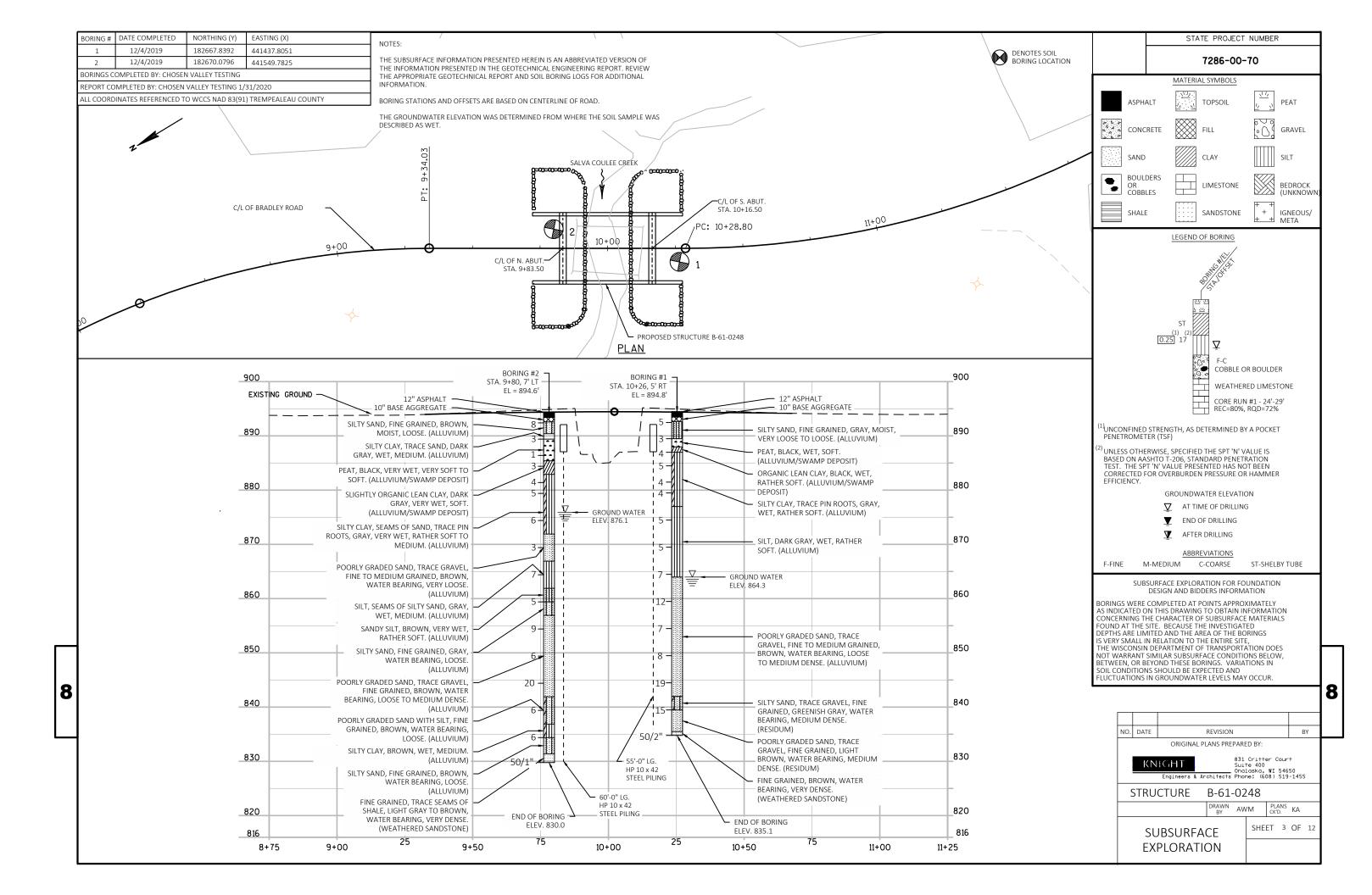
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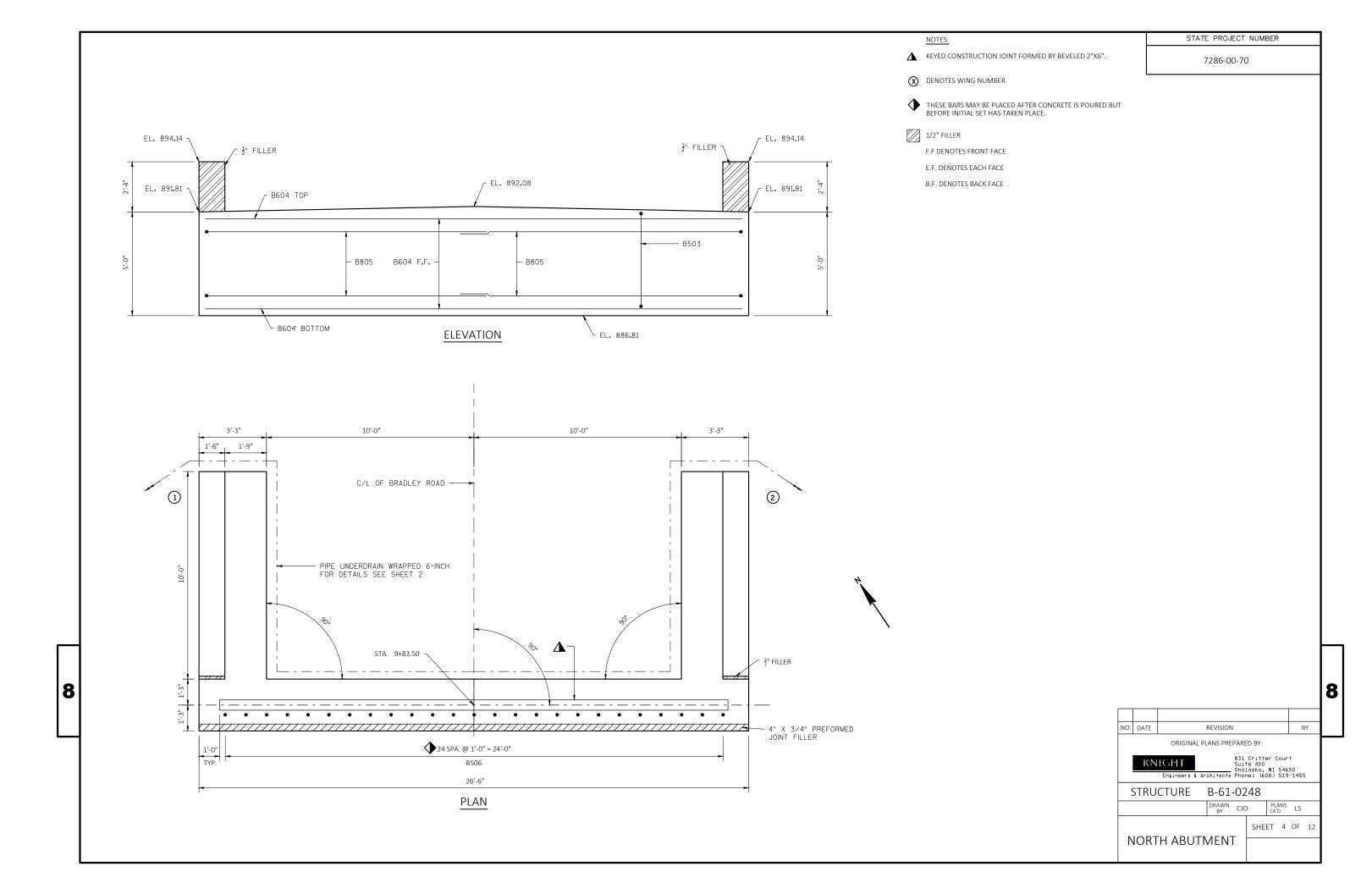
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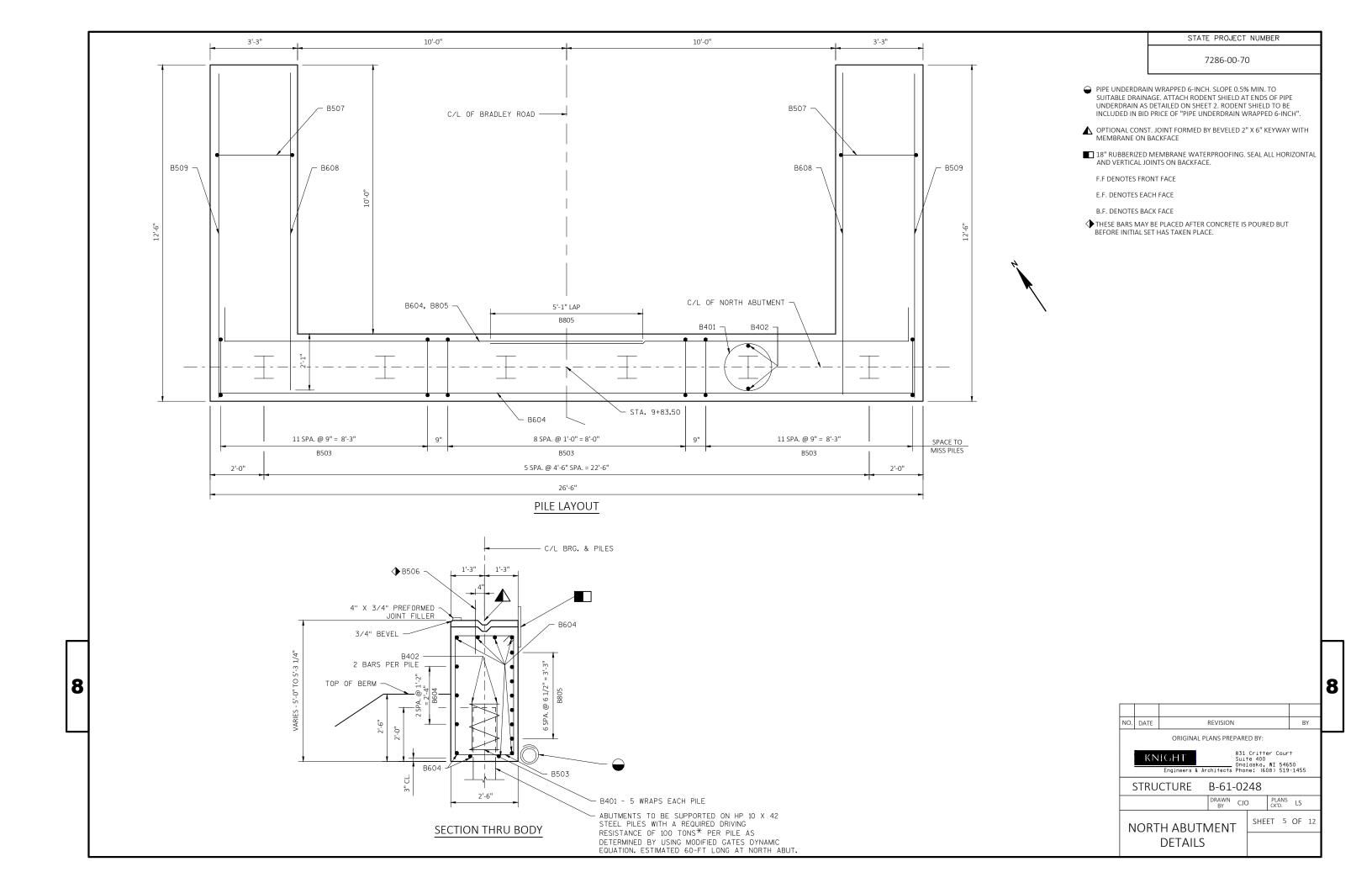


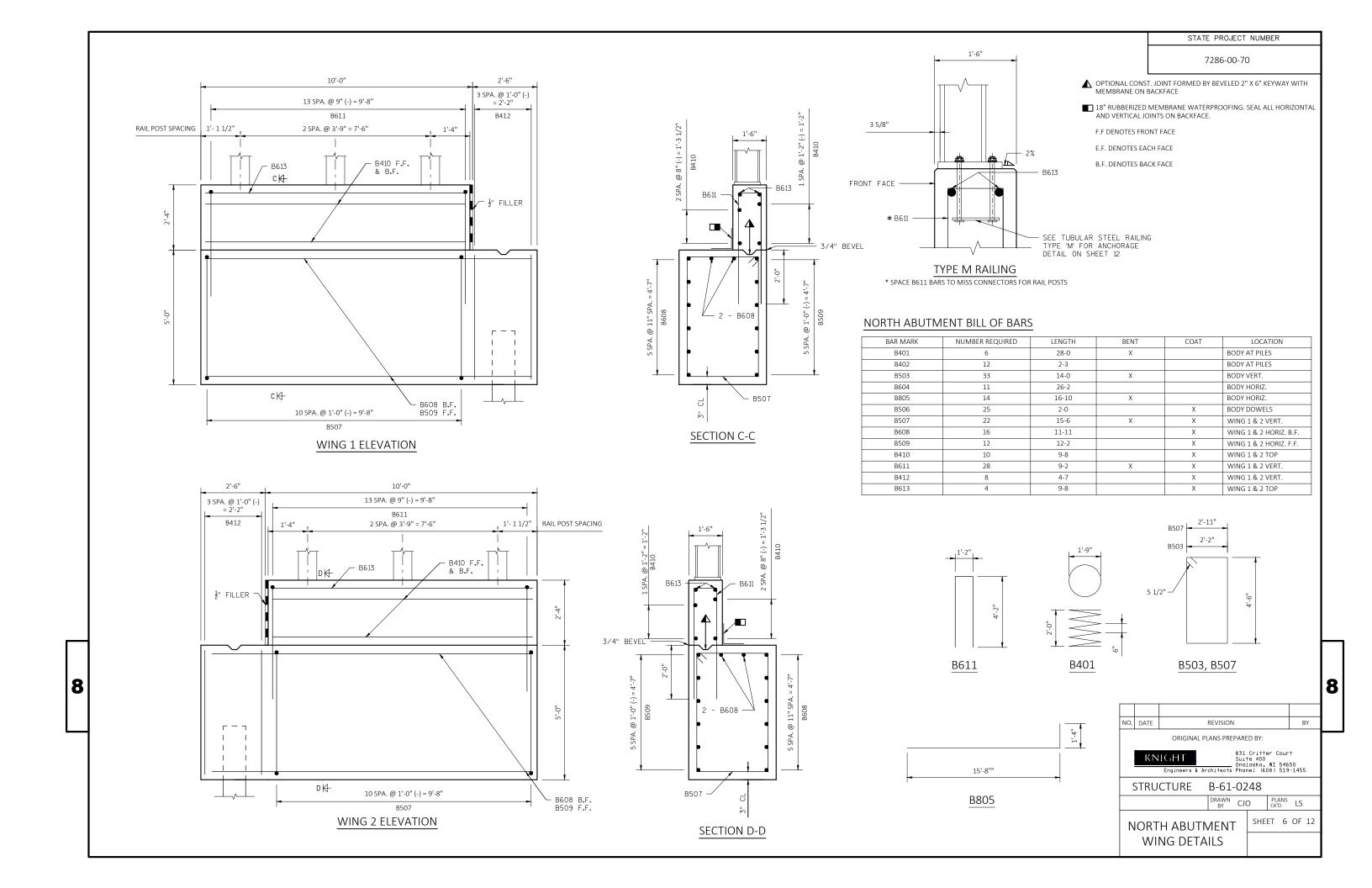


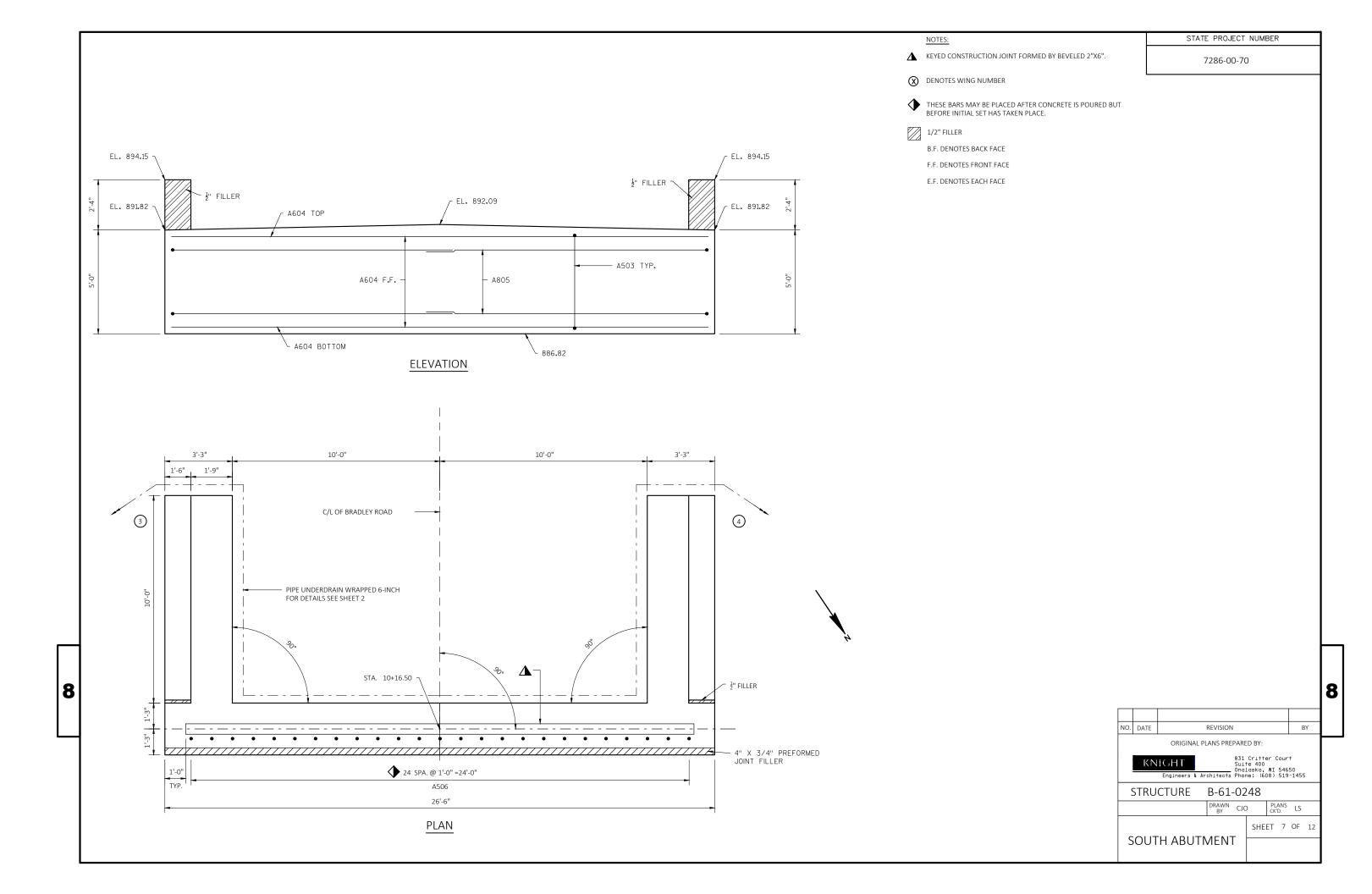


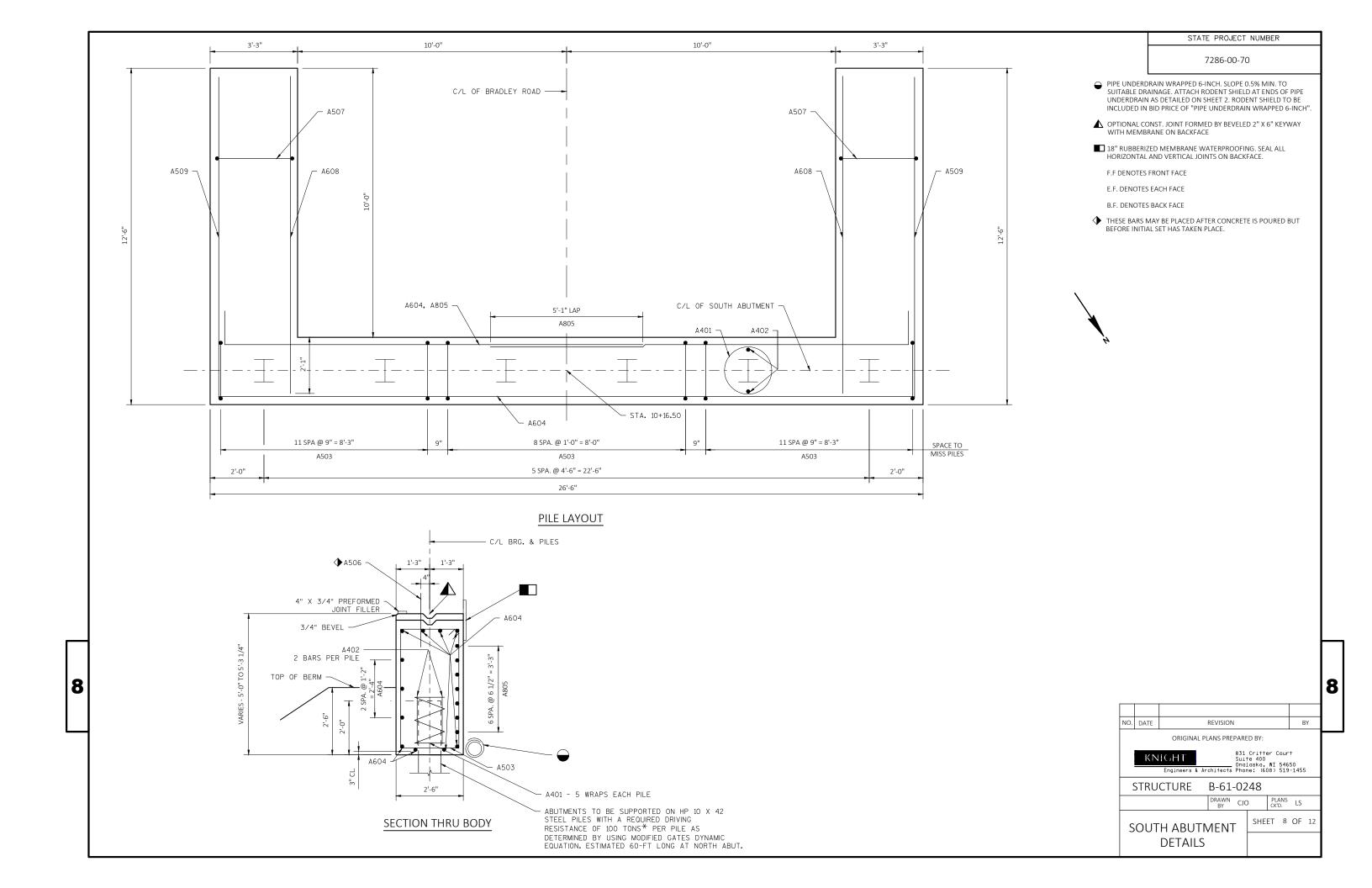


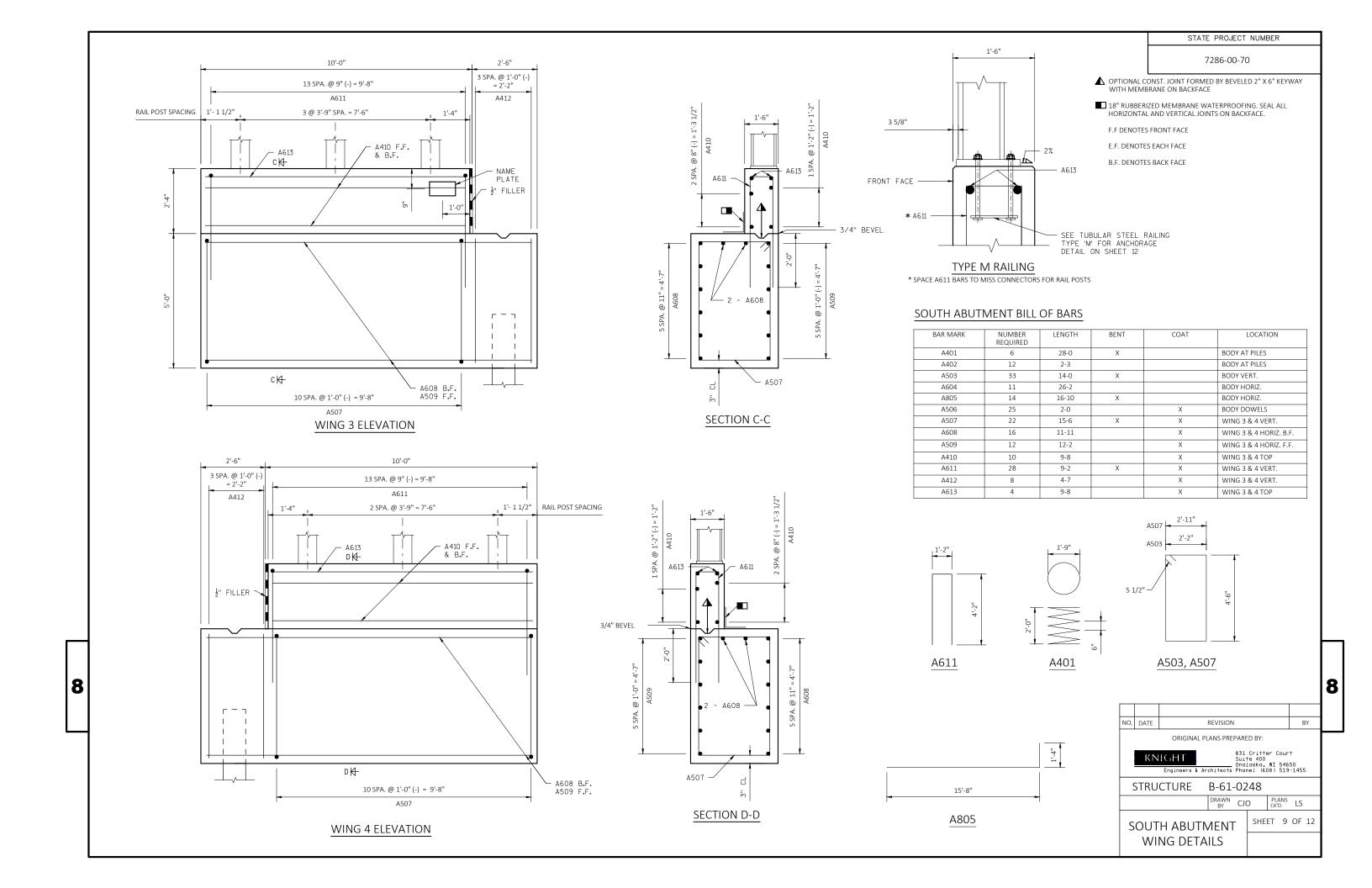


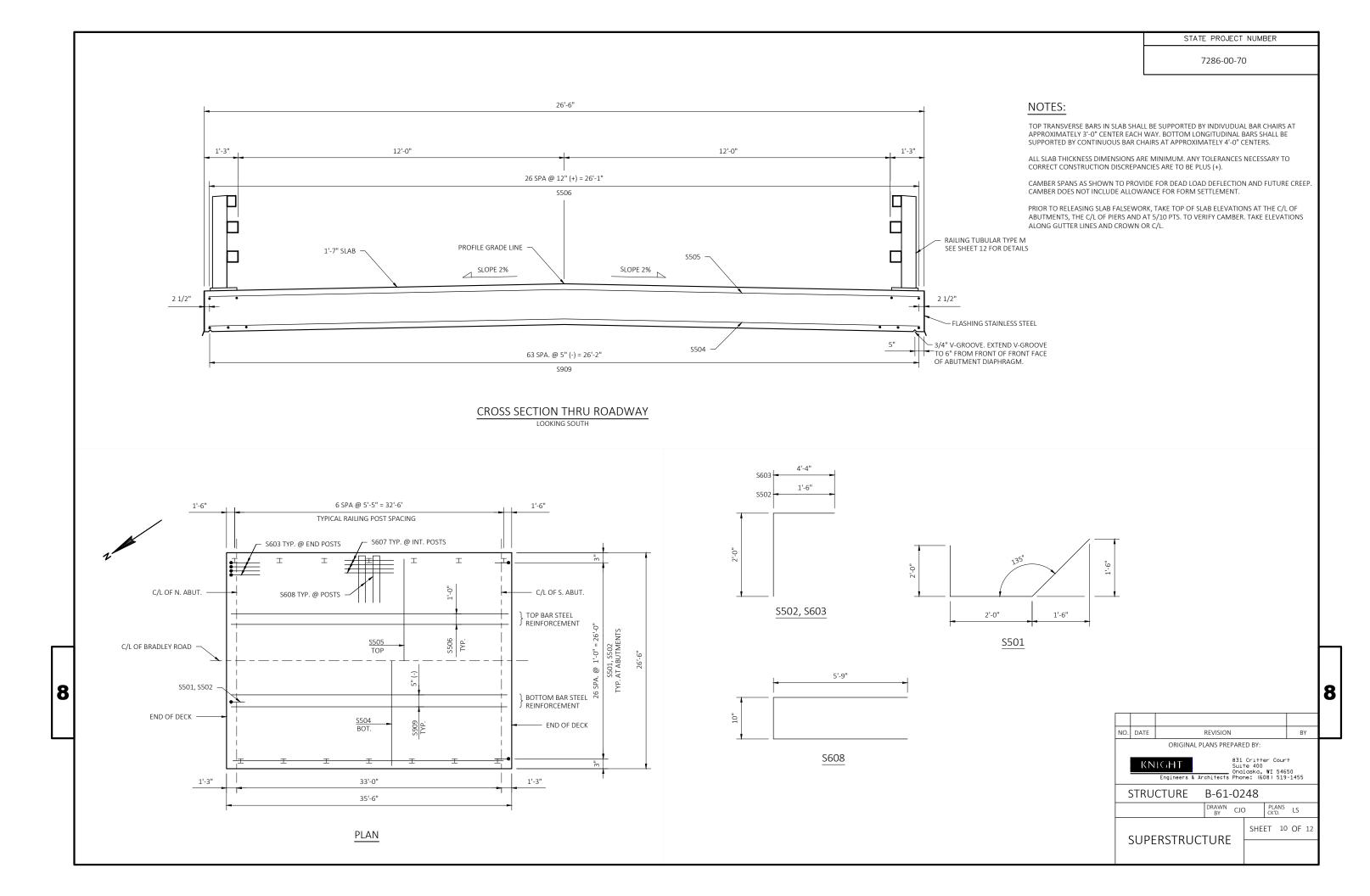














7286-00-70

#### NOTES

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

BAR MARK	NUMBER REQUIRED	LENGTH	BENT	COAT	LOCATION
S501	54	6-0	Х	Х	SLAB AT ABUT.
S502	54	3-5	Х	Х	SLAB AT ABUT.
S603	16	6-2	Х	Х	SLAB AT RAIL END POSTS
S504	58	26-2		Х	SLAB TRANS. BOT.
S505	36	26-2		Х	SLAB TRANS. TOP
S506	27	35-2		Х	SLAB LONG. TOP
S607	40	6-0		Х	SLAB AT INT. RAIL POSTS
S608	28	12-0	Х	Х	SLAB AT RAIL POSTS
S909	64	35-2		Х	SLAB LONG. BOT.

#### SUPERSTRUCTURE BILL OF BARS

## HALF LONGITUDINAL SECTION

17 SPA. @ 12" (-) = 17'-7" S505

S501 -

16'-6"

4" X 3/4" FILLER

3/4" BEVEL

26 SPA. @ 8" (-) = 16'-11" S504

S506

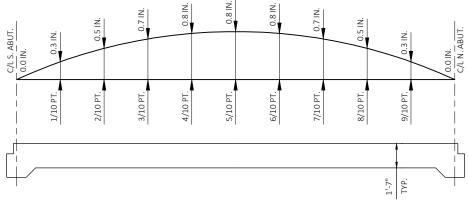
1'-3"

1'-3"

S504

C/L OF ABUT.

18" RUBBERIZED MEMBRANE WATERPROOFING



SYMETRICAL ABOUT

C/L OF SPAN

#### CAMBER 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. PARAPETS, SIDEWALKS AND MEDIANS PLACED ON TOP OF THE SLAB SHALL BE POURED AFTER FALSEWORK HAS BEEN RELEASED, EXCEPT FOR STAGED CONSTRUCTION.

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

TOP OF SLAB ELEVATION AT FINAL GRADE

SLAB THICKENESS CAMBER

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

TOP OF SLAB FALSEWORK ELEVATION.

#### TOP OF DECK ELEVATIONS

8

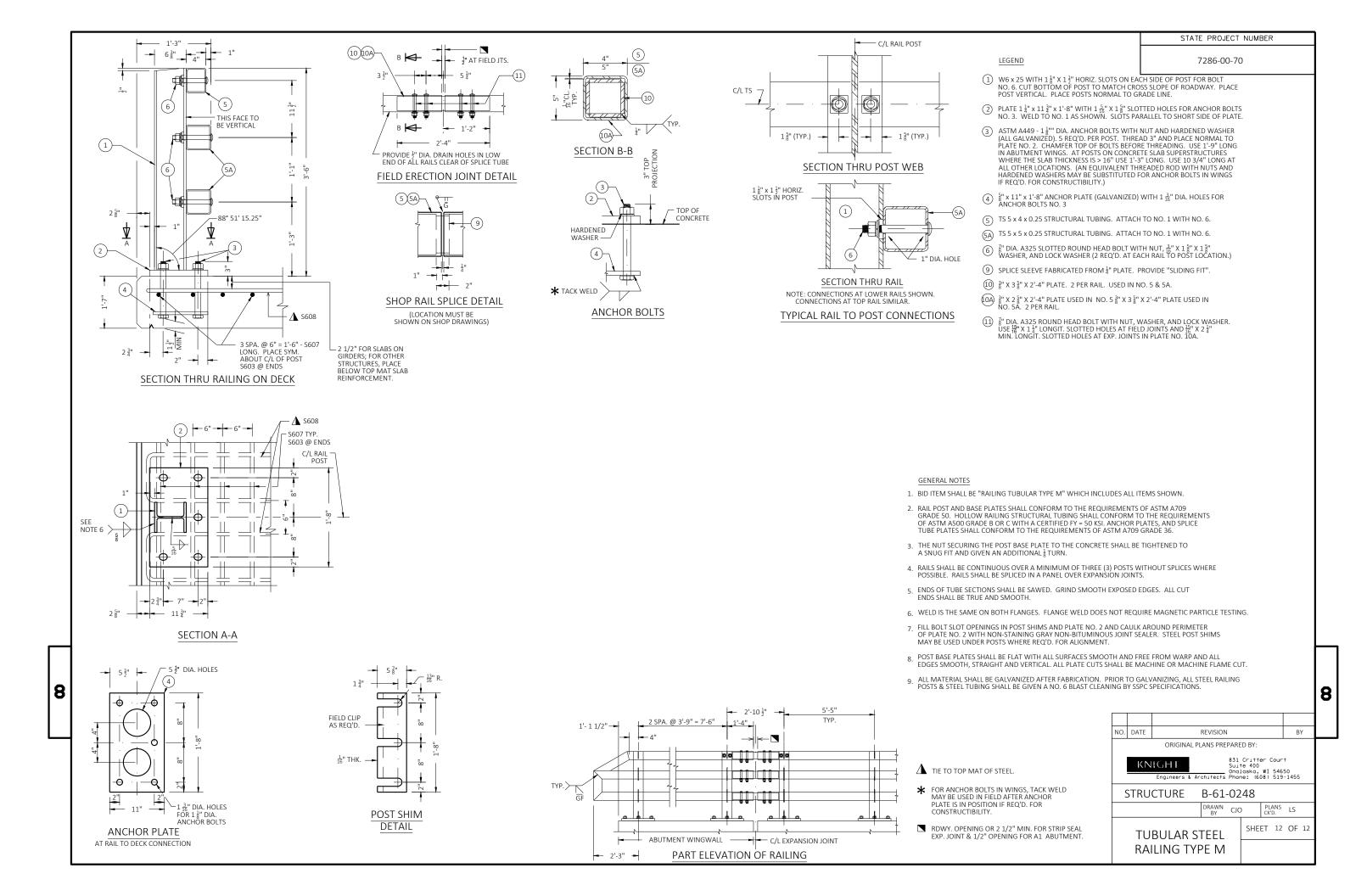
LOCATION	C/L BRG. N. ABUT.	0.1	0.2	0.3	0.4	0.5	0.6	0.7	0.8	0.9	C/L BRG. S. ABUT.
E. GUTTER	894.14	894.15	894.16	894.17	894.18	894.18	894.18	894.18	894.17	894.17	894.16
C/L OF SUPERSTRUCTURE	894.41	894.42	894.43	894.44	894.44	894.44	894.44	894.44	894.44	894.43	894.42
W. GUTTER	894.14	894.15	894.16	894.17	894.18	894.18	894.18	894.18	894.17	894.17	894.16

#### SURVEY TOP OF SLAB ELEVATIONS

	N. ABUT.	5/10 PT.	S. ABUT.
E. GUTTER			
C/L			
W. GUTTER			

NO. DATE REVISION ORIGINAL PLANS PREPARED BY: 831 Critter Court
Suite 400
Onaloska, WI 54650
Engineers & Architects Phone: (608) 519-1455 KNIGHT STRUCTURE B-61-0248 DRAWN CJO SUPERSTRUCTURE SHEET 11 OF 12 **DETAILS & BILL OF BARS** 

8



Division	From/To Station	Location		i.0100 Excavation (1)	Salvaged / Unusable Pavement Material (4)	Available Material (5)	205.0500 Marsh Excavation (6)	205.0200 Rock Excavation (7)	Reduced Marsh in Fill (8)	Reduced EBS in Fill (9)	Expanded Marsh Backfill (10)	Expanded EBS Backfill (11)	Expanded Rock (12)	Unexpanded Fill	•	Mass Ordinate +/- (14)	Waste	208.0100 Borrow	Comment:
Division 1			Cut (2)	EBS Excavation (3)					Factor 0.60	Factor 0.80	Factor 1.50	Factor 1.30	Factor 1.10		Factor 1.25				
NORTH Approach	9+32.25/9+82.25	Bradley Rd	53	0	33	20	0	0	0	0	0	0	0	32	40	-20	0	20	
Division 1 Subtotal  Division 2			53	0	33	20	0	0	0	0	0	0	0	32	40	-20	0	20	
SOUTH Approach	10+17.75/10+67.75	Bradley Rd	59	0	33	26	0	0	0	0	0	0	0	17	21	5	5	0	
Division 2 Subtotal			59	0	33	26	0	0	0	0	0	0	0	17	21	5	5	0	
Grand Total			112	0	66	46	0	0	0	0	0	0	0	49	61	-15	5	20	
	Total Commi	on Evo		112	-			-		-			-	-			-	-	-

#### Notes:

- (1) Common Excavation is the sum of the Cut and EBS Excavation columns. Item number 205.0100
- (2) Salvaged/Unsuable Pavement Material is included in Cut.
- (3) EBS Excavation to be backfilled with Select Borrow material. Note: this is designers choice, can be backfilled with Borrow, or Cut as well.
- (4) Salvaged/Unusable Pavement Material
- 5) Available Material = Cut Salvaged/Unusuable Pavement Material
- (6) Marsh Excavation to be backfilled with Select Borrow Material. Note: this is designers choice, can be backfilled with Borrow, or Cut as well. Item number 205.0500
- (7) Rock Excavation item number 205.0200
- (8) Reduced Marsh in Fill Excavated Marsh material is usuable in Fills outside the 1:1 slope. Marsh in Fill Reduction factor = 0.6
- (9) Reduced EBS in Fill Excavated EBS material is usuable in Fills outside the 1:1 slope. EBS in Fill Reduction factor = 0.8
- (10) Expanded Marsh Backfill This is to be filled with Select Borrow material. Marsh Backfill Factor = 1.5. Item number 208.1100
- (11) Expanded EBS Backfill This is to be filled with Select Borrow material. EBS Backfill Factor = 1.3. Item number 208.1100
- (12) Expanded Rock Factor = 1.1
- (13) Expanded Fill Factor = 1.25

Depending on selections: Expanded Fill = (Unexpanded Fill - Expanded Rock - Reduced Marsh - Reduced EBS) \* Fill Factor

Or Expanded Fill = (Unexpanded Fill - Expanded Rock - Reduced EBS) \* Fill Factor
Or Expanded Fill = (Unexpanded Fill - Expanded Rock - Reduced Marsh) \* Fill Factor

Or Expanded Fill = (Unexpanded Fill - Expanded Rock) \* Fill Factor

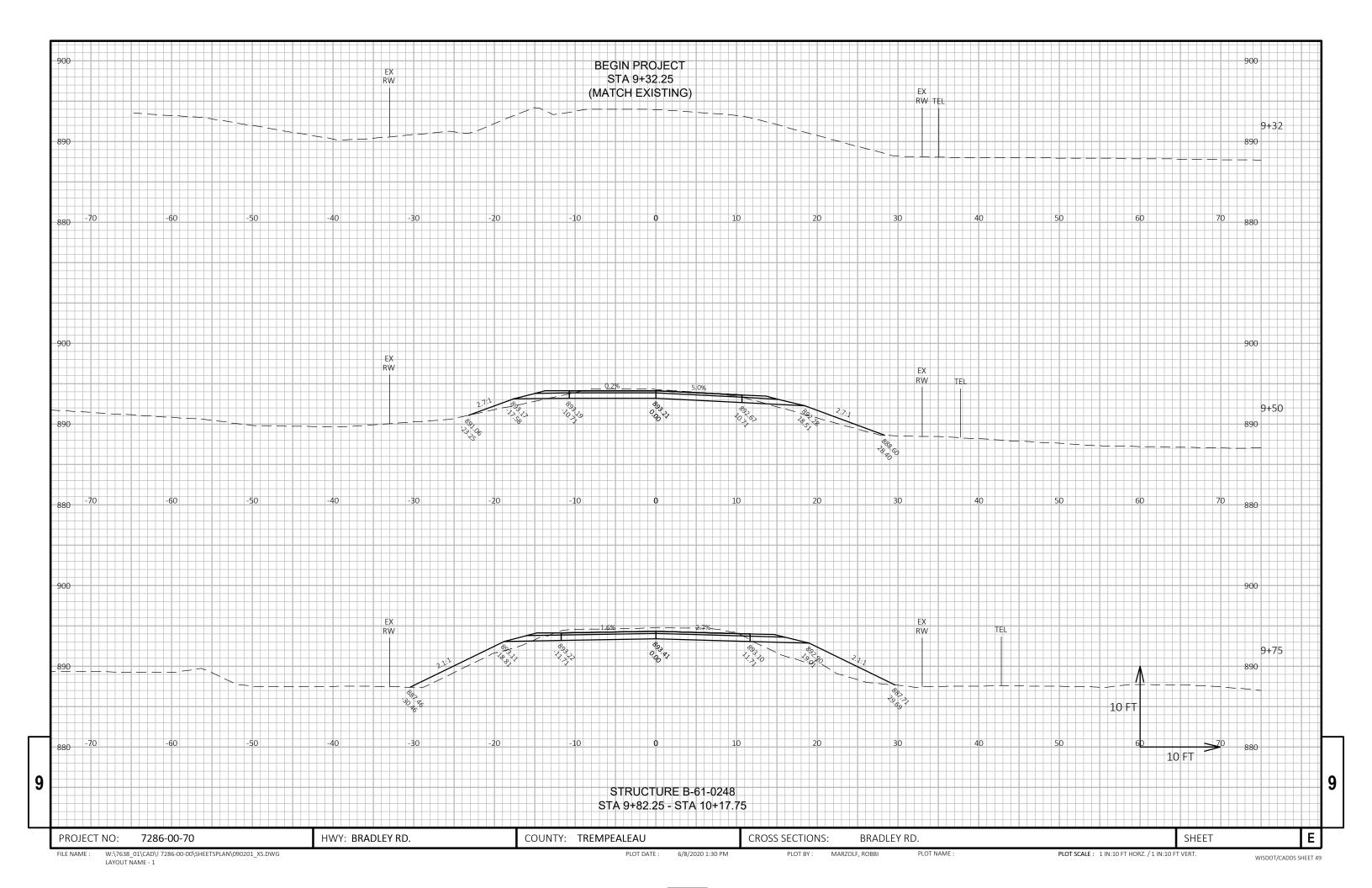
(14) The Mass Ordinate + or - Qty calculated for the Division. Plus quantity indicates an excess of material within the Division. Minus indicates a shortage of material within the Division.

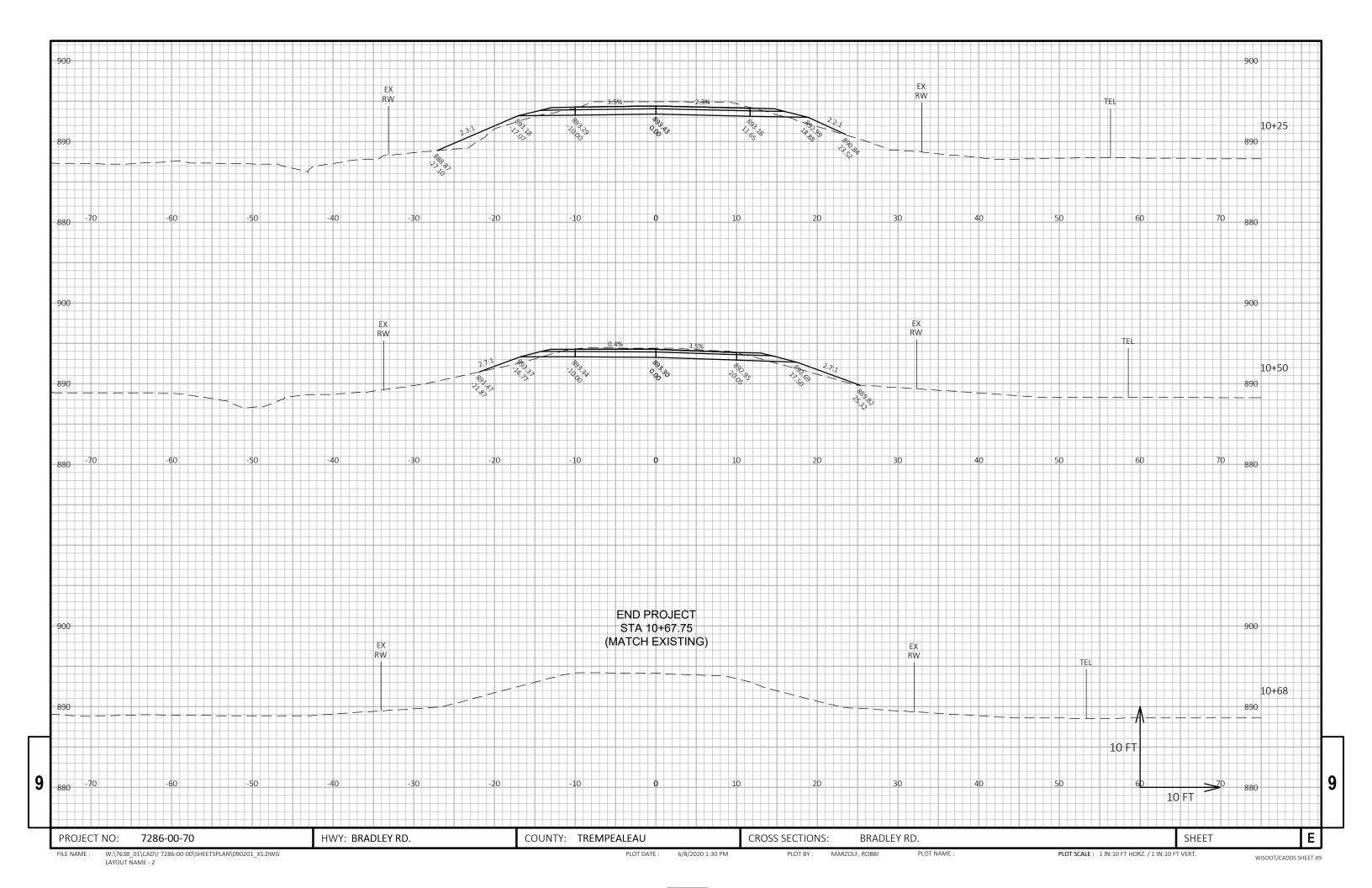
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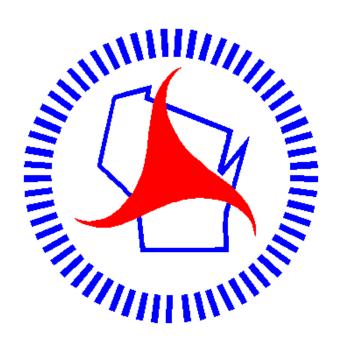
PROJECT NO: 7286-00-70 HWY: BRADLEY RD COUNTY: TREMPEALEAU EARTHWORK SUMMARY SHEET NO: E

FILE NAME : \_\_\_\_\_ PLOT DATE : \_\_\_\_ PLOT BY : \_\_\_\_ PLOT NAME : \_\_\_\_ ORIGINATOR : DIST \_ PLOT SCALE : 1:1





Notes



# Wisconsin Department of Transportation

Dedicated people creating transportation solutions through innovation and exceptional service.

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