Section No. 3

Section No. 3

Section No. 4

Section No. 5

Section No. 6

Section No. 7

Section No. 8

Section No. 9

Section No. 9

TOTAL SHEETS = 46

NOVEMBER 2017 STATE OF WISCONSIN ORDER OF SHEETS Title Section No. 1 DEPARTMENT OF TRANSPORTATION Typical Sections and Details Section No. 2

PLAN OF PROPOSED IMPROVEMENT

CTH O - CTH S

LITTLE DRYWOOD CREEK BRIDGE B-09-0306

CTH K

CHIPPEWA COUNTY

STATE PROJECT NUMBER

8914-00-70

125TH

105TH

AVE

115TH AVE

AVF.

PROJECT LOCATION DESIGN DESIGNATION 8914-00-70

Estimate of Quantities

Right of Way Plat

Sign Plates

Structure Plans

Cross Sections

Miscellaneous Quantitles

Standard Detail Drawings

Computer Earthwork Data

Plan and Profile (Includes Erosion Control)

A.A.D.T. 2018 = 120 A.A.D.T. 2038 = 170 D.H.V. = 17 D.D. = 50/50 = 10% DESIGN SPEED = 40 MPH = 44,000 **ESALS**

CONVENTIONAL SYMBOLS

MARSH AREA

WOODED OR SHRUB AREA

PLAN CORPORATE LIMITS PROPERTY LINE LOT LINE LIMITED HIGHWAY EASEMENT EXISTING RIGHT OF WAY PROPOSED OR NEW R/W LINE SLOPE INTERCEPT REFERENCE LINE EXISTING CULVERT PROPOSED CULVERT (Box or Pipe) COMBUSTIBLE FLUIDS

PROFILE GRADE LINE ORIGINAL GROUND MARSH OR ROCK PROFILE (To be noted as such) SPECIAL DITCH GRADE ELEVATION CULVERT (Profile View) UTILITIES ELECTRIC FIBER OPTIC GAS

SANITARY SEWER

UTILITY PEDESTAL

TELEPHONE POLE

STORM SEWER

TELEPHONE

POWER POLE

WATER

LABEL

₫ Ø

Д

BEGIN PROJECT STA 8+00 Y= 151648.429 X= 211633.126

STRUCTURE B-09-0306

STA 10+00

SCALE

COORDINATES ON THIS PLAN ARE REFERENCED TO THE WISCONSIN COUNTY COORDINATE SYSTEM, CHIPPEWA COUNTY

R-7-W

ittle Dr

120TH

AVE

107TH

AVE

10 AND

S

PLOT BY : SEH

100TH

130TH

ST

AVE

2 3ND ST

AVE

ST

FEDERAL PROJECT STATE PROJECT CONTRACT WISC 2017528 8914-00-70

ACCEPTED FOR CHIPPEWA COUNTY (Signature & Title of Official)

END PROJECT

STA 11+75 Y= 152023.298 X= 211623.206

T-29-N

ORIGINAL PLANS PREPARED BY



STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION

PREPARED BY SEH Surveyor SEH Designer KNIGHT E/A INC. Management Consultant

TOTAL NET LENGTH OF CENTERLINE = 0.071 MI

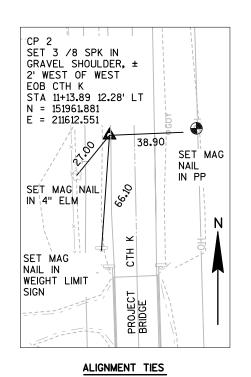
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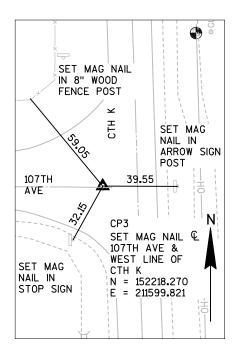
RUNOFF COEFFICIENT TABLE

		HYDROLOGIC SOIL GROUP										
	A			В	1		C	:		D		
	SLOPE RANGE (PERCENT)		SLOPE RANGE (PERCENT)			SLOPE RANGE (PERCENT)			SLOPE RANGE (PERCENT)			
LAND USE:	0-2	2-6	6 & OVER	0-2	2-6	6 & OVER	0-2	2-6	6 & OVER	0-2	2-6	6 & OVER
ROW CROPS	.08 .22	.16 .30	.22 .38	.12 .26	.20 .34	.27 .44	.15 .30	.24 .37	.33 .50	.19 .34	.28 .41	.38 .56
MEDIAN STRIP- TURF	.19 .24	.20 .26	.24 .30	.19 .25	.22	.26 .33	.20 .26	.23 .30	.30 .37	.20 .27	.25 .32	.30 .40
SIDE SLOPE- TURF			.25 .32			.27 .34			.28 .36			.30 .38
PAVEMENT:		-					-	-		-		
ASPHALT	ASPHALT .7095											
CONCRETE	CONCRETE .8095											
BRICK						.7080						
DRIVES, WALKS	DRIVES, WALKS			.7585								
ROOFS	ROOFS .7595											
GRAVEL ROADS,	SHOULDE	ERS				.4060						

TOTAL PROJECT AREA = 0.68 ACRES TOTAL AREA EXPECTED TO BE DISTURBED BY CONSTRUCTION ACTIVITIES = 0.58 ACRES

SET 3 /8 SPK IN GRAVEL SHOULDER, ± 3' WEST OF WEST EIB CTH K ± 125' SOUTH OF BRIDGE STA 8+14.49 13.42' LT N = 151662.555E = 211619.328SET MAG NAII IN ATV SIGN 40.10 SET MAG NAIL IN PP SET MAG CTH NAIL IN 14" ELM





GENERAL NOTES:

ELEVATIONS SHOWN ON THE PLAN ARE REFERENCED TO THE NORTH AMERICAN VERTICAL DATUM

WHEN THE QUANTITY OF BASE AGGREGATE OR ASPHALTIC SURFACE IS MEASURED FOR PAYMENT 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

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

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

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

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

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

A VERTICAL SAWCUT SHALL BE MADE THROUGH EXISTING DRIVEWAYS AND PAVEMENTS AT

3.5 INCH ASPHALTIC SURFACE SHALL BE CONSTRUCTED WITH A 1.75 INCH UPPER LAYER AND A 1.75 INCH LOWER LAYER.

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

WISDOT MONUMENTS WILL BE SUPPLIED BY THE STATE AND INSTALLED BY THE CONTRACTOR AS DIRECTED BY THE ENGINEER.

UTILITY CONTACTS

CENTURYLINK PO BOX 78 HAWKINS, WI 54530 TELEPHONE: 715.492.0214 ATTENTION: TIM CEGLER

EMAIL: TIMOTHY.CEGLER@CENTURYLINK.COM

CHIPPEWA VALLEY ELECTRIC COOPERATIVE 317 SOUTH 8TH STREET TELEPHONE: 715.239.6800 ATTENTION: BOB WRUCK EMAIL: RWRUCK@CVE.COOP



DESIGN CONTACT

10 NORTH BRIDGE STREET CHIPPEWA FALLS, WI 54729 TELEPHONE: 715.720.6291 ATTENTION: TARA KRISTA EMAIL: TKRISTA@SEHINC.COM

MUNICIPAL CONTACT

CHIPPEWA COUNTY HIGHWAY DEPARTMENT 801 EAST GRAND AVENUE CHIPPEWA FALLS WI, 54729 TELEPHONE: 715.726.7914 ATTENTION: FRED ANDERSON EMAIL: FANDERSON@CO.CHIPPEWA.WI.US

WDNR CONTACT DNR WEST CENTRAL REGION HQ 1300 WEST CLAIREMONT AVENUE EAU CLAIRE, WI 54702 TELEPHONE: 715.839.1609 ATTENTION: CHRIS WILLGER EMAIL: CHRISTOPHERJ.WILLGER@WISCONSIN.GOV

PROJECT NO: 8914-00-70

HWY: CTH K

COUNTY: CHIPPEWA

GENERAL NOTES

Tangent Data

Description

Tangent Data

Tangent Data

Description

Tangent Data

Parameter

Length:

PLOT BY : SEH

Parameter

Length:

Start:

End:

Start:

ALIGNMENT DATA CTH K

Northing

151548.464

152035.586

Parameter

Course:

Northing

152035.586

152148.226

Parameter

Easting

Value

Easting

Value

211622.881

211618.994

211635.771

211622.881

N 01° 30' 56.9396" W

N 01° 58' 34.3439" W

PT Station

7+00.000

Value

487.29

11+87.293

PT Station

11+87.293

13+00.000

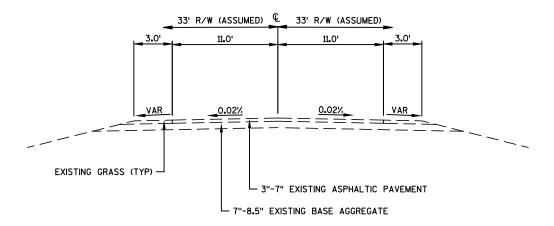
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SHEET PLOT SCALE : ########

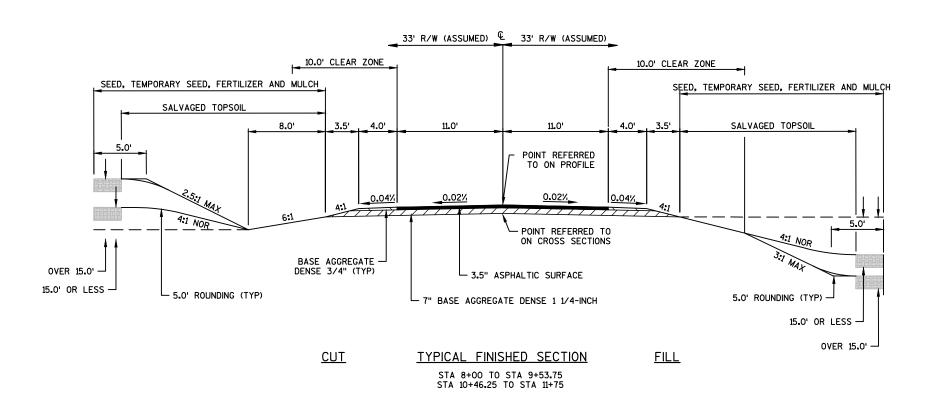
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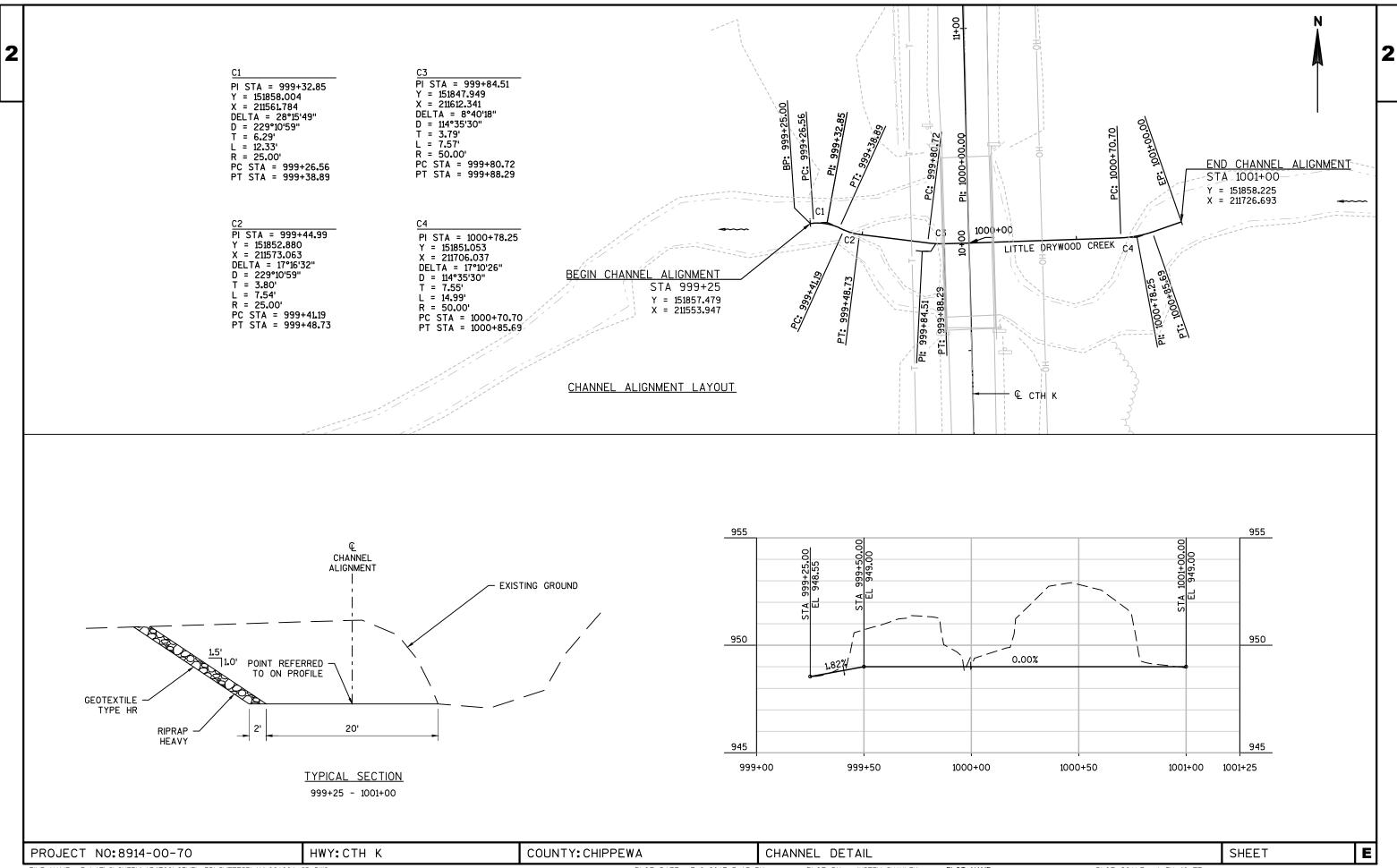


TYPICAL EXISTING SECTION

STA 8+00 TO STA 9+59.80 STA 10+40.20 TO STA 11+75



PROJECT NO:8914-00-70 HWY: CTH K SHEET E COUNTY: CHIPPEWA TYPICAL SECTIONS PLOT BY : JUSTIN SHAVLIK PLOT NAME :



Page	1

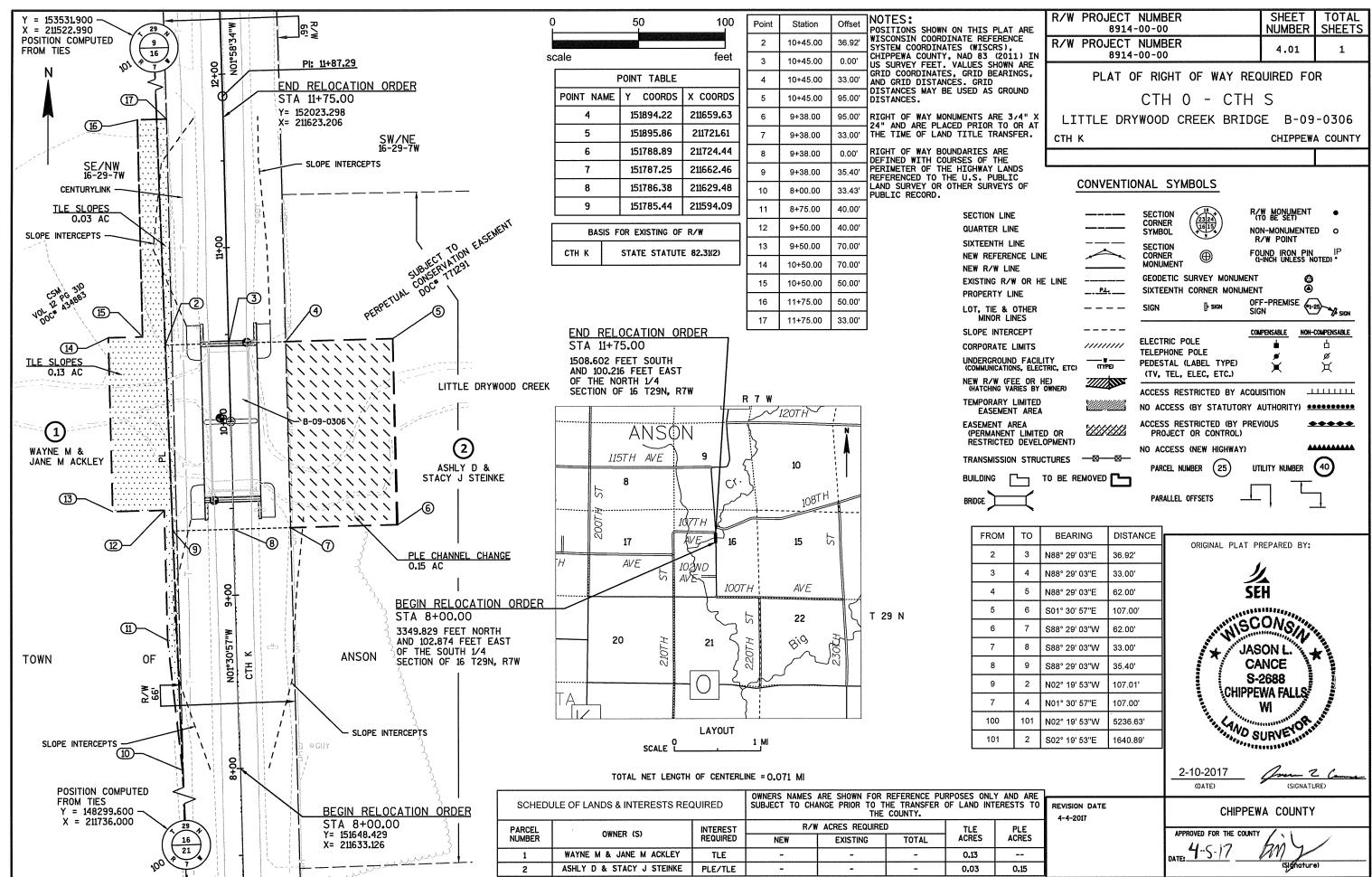
					8914-00-70
Line	Item	Item Description	Unit	Total	Qty
0002	201.0105	Clearing	STA	2.000	2.000
0004	201.0205	Grubbing	STA	2.000	2.000
0006	203.0600.S	•	LS	1.000	1.000
8000	205.0100	Excavation Common	CY	698.000	698.000
0010	206.1000	Excavation for Structures Bridges (structure) 01. B-09-0306	LS	1.000	1.000
0012	210.1500	Backfill Structure Type A	TON	312.000	312.000
0014	213.0100	Finishing Roadway (project) 01. 8914-00-70	EACH	1.000	1.000
0016	305.0110	Base Aggregate Dense 3/4-Inch	TON	47.000	47.000
0018	305.0120	Base Aggregate Dense 1 1/4-Inch	TON	395.000	395.000
0020	455.0605	Tack Coat	GAL	46.000	46.000
0022	465.0105	Asphaltic Surface	TON	150.000	150.000
0024	502.0100	Concrete Masonry Bridges	CY	283.000	283.000
0026	502.3200	Protective Surface Treatment	SY	408.000	408.000
0028	505.0400	Bar Steel Reinforcement HS Structures	LB	5,530.000	5,530.000
0030	505.0600	Bar Steel Reinforcement HS Coated Structures	LB	50,750.000	50,750.000
0032	506.0105	Structural Steel Carbon	LB	590.000	590.000
0034	513.4061	Railing Tubular Type M (structure) 01. B-09-0306	LF	230.000	230.000
0036	516.0500	Rubberized Membrane Waterproofing	SY	20.000	20.000
0038	550.2104	Piling CIP Concrete 10 3/4 X 0.25-Inch	LF	1,800.000	1,800.000
0040	606.0300	Riprap Heavy	CY	274.000	274.000
0042	612.0406	Pipe Underdrain Wrapped 6-Inch	LF	202.000	202.000
0044	619.1000	Mobilization	EACH	1.000	1.000
0046	624.0100	Water	MGAL	4.000	4.000
0048	625.0500	Salvaged Topsoil	SY	935.000	935.000
0050	627.0200	Mulching	SY	1,105.000	1,105.000
0052	628.1504	Silt Fence	LF	835.000	835.000
0054	628.1520	Silt Fence Maintenance	LF	835.000	835.000
0056	628.1905	Mobilizations Erosion Control	EACH	3.000	3.000
0058	628.1910	Mobilizations Emergency Erosion Control	EACH	3.000	3.000
0060	628.2008	Erosion Mat Urban Class I Type B	SY	765.000	765.000
0062	628.6005	Turbidity Barriers	SY	295.000	295.000
0062	629.0210	Fertilizer Type B	CWT	0.700	0.700
0064	630.0120	* *			
		Seeding Mixture No. 20	LB	30.000	30.000
0068	630.0200	Seeding Temporary	LB	30.000	30.000
0070	634.0612	Posts Wood 4x6 Inch X 12-FT	EACH	4.000	4.000
0072	634.0616	Posts Wood 4x6-Inch X 16-FT	EACH	1.000	1.000
0074	637.2230	Signs Type II Reflective F	SF	18.250	18.250
0076	638.2602	Removing Signs Type II	EACH	6.000	6.000

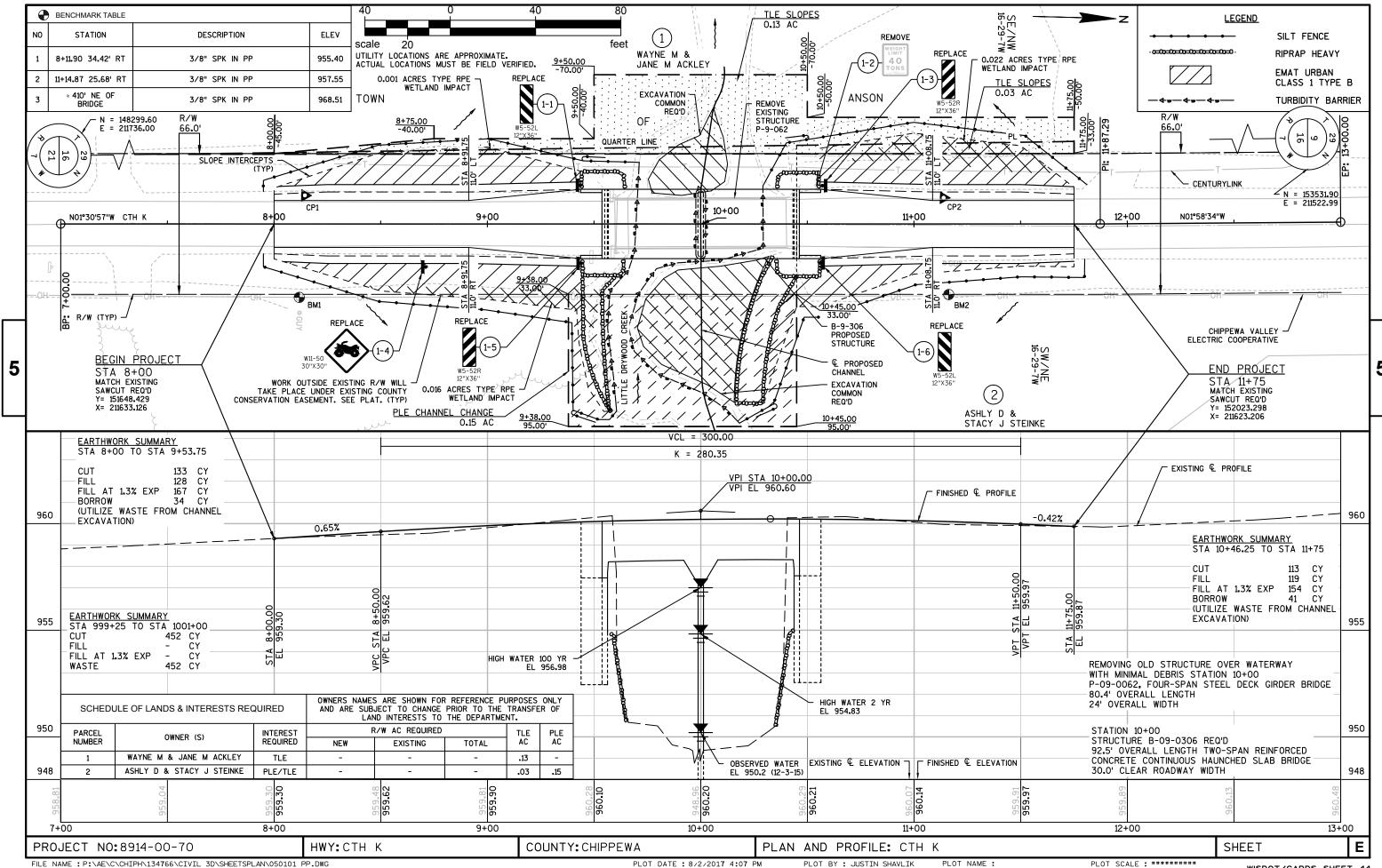
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XUI	41-1	11 1-	/

Line	Item	Item Description	Unit	Total	Qty
0078	638.3000	Removing Small Sign Supports	EACH	6.000	6.000
0800	642.5001	Field Office Type B	EACH	1.000	1.000
0082	643.0100	Traffic Control (project) 01. 8914-00-70	EACH	1.000	1.000
0084	643.0420	Traffic Control Barricades Type III	DAY	1,566.000	1,566.000
0086	643.0705	Traffic Control Warning Lights Type A	DAY	3,132.000	3,132.000
8800	643.0900	Traffic Control Signs	DAY	1,392.000	1,392.000
0090	645.0111	Geotextile Type DF Schedule A	SY	80.000	80.000
0092	645.0120	Geotextile Type HR	SY	473.000	473.000
0094	646.0106	Pavement Marking Epoxy 4-Inch	LF	844.000	844.000
0096	650.4500	Construction Staking Subgrade	LF	283.000	283.000
0098	650.5000	Construction Staking Base	LF	283.000	283.000
0100	650.6500	Construction Staking Structure Layout (structure) 01. B-09-0306	LS	1.000	1.000
0102	650.9910	Construction Staking Supplemental Control (project) 01. 8914-00-70	LS	1.000	1.000
0104	650.9920	Construction Staking Slope Stakes	LF	458.000	458.000
0106	690.0150	Sawing Asphalt	LF	44.000	44.000
0108	715.0502	Incentive Strength Concrete Structures	DOL	1,698.000	1,698.000
0110	ASP.1T0A	On-the-Job Training Apprentice at \$5.00/HR	HRS	1,200.000	1,200.000
0112	ASP.1T0G	On-the-Job Training Graduate at \$5.00/HR	HRS	300.000	300.000

3	CLEARING & GRUBBING STATION - STATION LOCATION 201.0105 CLEARING GRUBBING STA CTH K 9+00 - 11+00 LT & RT 2 2 ITEMTOTALS 2	ASPHALTIC PAVEMENT ITEMS 455.0605 465.0105 TACK ASHALTIC COAT SURFACE GAL TON CTH K 8+75 - 9+78.67 LT & RT 25 80 10+21.33 - 11+50 LT & RT 21 70 ITEMTOTALS 46 150
	STATION - STATION LOCATION CY CY CY CY CY CY CY C	MOBILIZATION 619.1000 STATION - STATION EACH CTH K CATEGORY 0010 0.25 CATEGORY 0020 0.75 ITEM TOTAL 1
	FINISHING ROADWAY (8914-00-70) 213.0100 STATION - STATION EACH CTH K 8+75 - 11+50 1 ITEM TOTAL 1	SALVAGED TOPSOIL, MULCHING AND SEEDING 630.0120 630.0200 SALVAGED 627.0200 FERTILIZER MIXTURE SEEDING TOPSOIL MULCHING TYPE B NO. 20 TEMPORARY NO. 20 NO. 20
	## BASE AGGREGATE DENSE 305.0110 305.0120 624.0100 3/4-INCH 1 1/4-INCH WATER STATION - STATION LOCATION TON TON MGAL	CTH K S+00 - 9+53.75

	TRAFFIC CONTROL 643.0100 643.0705 TRAFFIC 643.0420 WARNING CONTROL BARRICADES LIGHTS 643.0900 (8914-00-70) TYPE III TYPE A SIGNS STATION - STATION EACH DAY DAY CTH K	
	FIELD OFFICE TYPE B 642.5001 STATION - STATION EACH CTH K 8+75 - 11+50 1 ITEM TOTAL 1	SAWING ASPHALT 690.0150
CODE CODE CODE CODE CODE CODE CODE CODE	SIGNS WOOD WOOD RI TYPE II 4X6-INCH 4X6-INCH IGN TYPE II REFLECTIVE F 12-FT 16-FT	CONSTRUCTION STAKING CONSTRUCTION CONSTRUCTION
	MOBILIZATIONS EROSION CONTROL 628.1910 628.1905 EMERGENCY EROSION CONTROL CONTROL CONTROL EACH EACH	## PAVEMENT MARKING 646.0106





Standard Detail Drawing List

08E09-06	SILT FENCE
08E11-02	TURBI DI TY BARRI ER
12A03-10	NAME PLATE (STRUCTURES)
15C02-06A	BARRICADES AND SIGNS FOR MAINLINE CLOSURES
15C02-06B	BARRICADES AND SIGNS FOR MAINLINE CLOSURES
15C06-09	SIGNING & MARKING FOR TWO LANE BRIDGES
15C08-17A	LONGITUDINAL MARKING (MAINLINE)

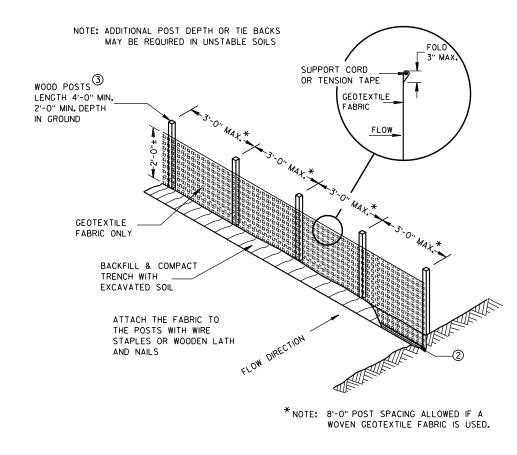
TYPICAL APPLICATION OF SILT FENCE

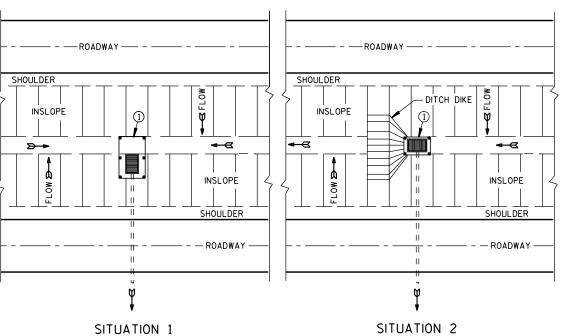
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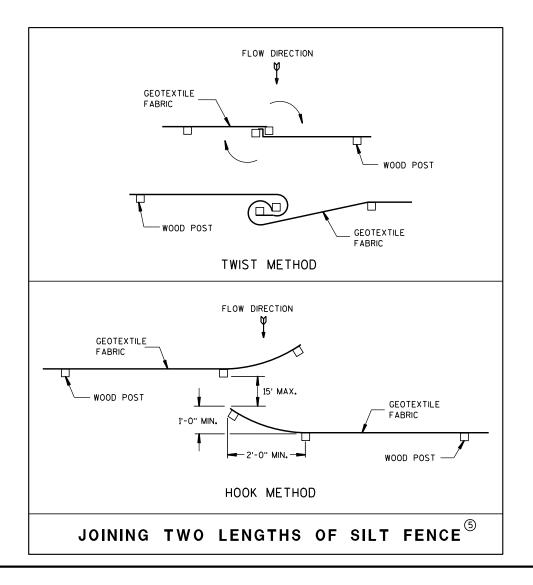
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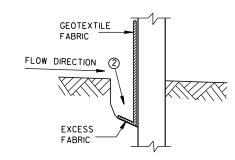
PLAN VIEW SILT FENCE AT MEDIAN SURFACE DRAINS



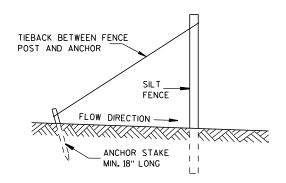
GENERAL NOTES

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

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

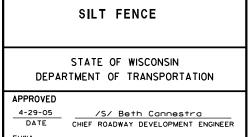


TRENCH DETAIL



SILT FENCE TIE BACK

(WHEN REQUIRED BY THE ENGINEER)



SILT FENCE

S.D.D. 8 E 9-6

6

6

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GENERAL NOTES

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

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

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





SECTION C-C

TURBIDITY BARRIER DETAIL SHOWING TYPICAL PLACEMENT AT STRUCTURES

TURBIDITY BARRIER

STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION

APPROVED

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

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TYPICAL NAME PLATE

(BRIDGES, CULVERTS, AND RETAINING WALLS)



NUMBERING DESIGNATION MULTI-UNIT STRUCTURES

GENERAL NOTES

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

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

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



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

SECTION A-A

ALTERNATE LUG



ALTERNATE LUG

(FOR ATTACHMENT TO PRECAST STRUCTURES)

NAME PLATE (STRUCTURES)

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

|--|

3/26/IO /S/ SCOT BECKET

CHIEF STRUCTURAL DEVELOPMENT ENGINEER

D.D. 12 A

3-10



ROAD CLOSURE BARRICADE DETAIL

APPROACH VIEW



DETAIL E LANE CLOSURE BARRICADE DETAIL APPROACH VIEW

SEE SDD 15C2-SHEET "a" FOR LEGEND

GENERAL NOTES

THE EXACT NUMBER, LOCATION, AND SPACING OF ALL SIGNS AND BARRICADES SHALL BE ADJUSTED TO FIT FIELD CONDITIONS AS APPROVED BY THE ENGINEER.

ANY SIGNS TEMPORARY OR EXISTING, WHICH CONFLICT WITH TRAFFIC CONTROL "IN USE" SHALL BE REMOVED OR COVERED AS NEEDED AND AS APPROVED BY THE ENGINEER.

THE SPACING BETWEEN TRAFFIC CONTROL SIGNS SHOULD BE ADJUSTED TO NOT CONFLICT WITH AND SHOULD PROVIDE A DESIRABLE MINIMUM OF 200 FEET CLEARANCE TO EXISTING SIGNS THAT WILL REMAIN IN PLACE.

BARRICADES THAT MUST BE MOVED FOR A WORK OPERATION SHALL BE IMMEDIATELY RE-ESTABLISHED UPON COMPLETION OF THE OPERATION OR, FOR CONTINUING OPERATIONS, AT THE END OF EACH WORKING DAY.

SIGNS THAT WILL BE IN PLACE LESS THAN 7 CONTINUOUS DAYS AND NIGHTS MAY BE MOUNTED ON PORTABLE SUPPORTS.

ALL TYPE III BARRICADES SHALL HAVE RAILS REFLECTORIZED ON BOTH FACES. STRIPES SHALL BE PROPERLY SLOPED DOWN TOWARD THE TRAFFIC SIDE OR AS SHOWN IN THE ROAD CLOSURE BARRICADE DETAIL D FOR FULL ROAD CLOSURES.

TYPE "A" LOW-INTENSITY FLASHING WARNING LIGHTS SHALL BE VISIBLE ON BOTH SIDES OF THE

THE R11-2, R11-3, M4-9, R11-4 AND R10-61 SIGNS PLACED ON BARRICADES SHALL COVER NO MORE THAN THE TOP RAIL. THE SIGNS SHALL NOT COVER ANY PORTION OF THE MIDDLE OR BOTTOM RAILS.

"WO AND "MO" SIGNS ARE THE SAME AS "W" AND "M" SIGNS EXCEPT THE BACKGROUND IS ORANGE.

ALL SIGNS SHALL BE 48" X 48" UNLESS OTHERWISE NOTED BELOW:

R11-2 SHALL BE 48" X 30". R11-3, R11-4 AND R10-61 SHALL BE 60" X 30". M4-9 SHALL BE 30" X 24". M3-X SHALL BE 24" X 12". (36" X 18" IF NEEDED TO MATCH EXISTING SIGNS.) M4-8 SHALL BE 24" X 12". (30" X 15" IF NEEDED TO MATCH EXISTING SIGNS.) M1-4, M1-5A, AND M1-6 SHALL BE 24" X 24". (36" X 36" IF NEEDED TO MATCH EXISTING SIGNS.) MO5-1 AND MO6-1 SHALL BE 21" X 21". (30" X 30" IF NEEDED TO MATCH EXISTING SIGNS.) D1-X SHALL BE AS SHOWN ON SPECIFIC PROJECT SIGNING DETAIL SHEETS. R1-1 SHALL BE 36" X 36".

- (1) TWO WARNING LIGHTS SHALL BE PROVIDED ON THE CENTER BARRICADE AND A MINIMUM OF ONE WARNING LIGHT SHALL BE PROVIDED ON EACH OF THE OTHER BARRICADES WITHIN THE ROADWAY LIMITS. SPACING OF THE WARNING LIGHTS SHALL BE UNIFORM TO THE EDGE OF ROADWAY AS SHOWN (APPROX. 8-FOOT
- THESE SIGNS AND BARRICADES ARE NOT REQUIRED IF ROAD CLOSURE BEGINS AT INTERSECTION.
- FOR ROAD CLOSURE WITHOUT LOCAL ACCESS TO PROJECT, SEE ROAD CLOSURE BARRICADE DETAIL D.
- FOR ROAD CLOSURE WITH LOCAL ACCESS TO PROJECT, SEE LANE CLOSURE BARRICADE DETAIL E.
- FOR BRIDGE OR CULVERT REPLACEMENTS, SUBSTITUTE "BRIDGE OUT" INSTEAD OF "ROAD CLOSED" ON R11-2 AND R11-3 SIGNS.
- INSTALL DETOUR AND COMMUNITY GUIDE SIGNS AND ARROWS ONLY IF SPECIFIED IN THE CONTRACT. IF THERE ARE EXISTING ROUTE MARKER ASSEMBLIES THAT WILL REMAIN IN PLACE, ADJUST THE LOCATION OF THE DETOUR ROUTE SIGNS TO CORRESPOND WITH THE EXISTING ASSEMBLIES. MODIFY EXISTING SIGNS WHERE POSSIBLE. SEE SPECIFIC PROJECT DETOUR SIGNING DETAIL SHEETS. IF DETOUR SIGNS ARE BEING INSTALLED BY OTHERS. PLACE THE CONTRACTED TRAFFIC CONTROL SIGNS TO ALLOW FOR PLACEMENT OF ALL WARNING, DETOUR AND GUIDE SIGNS AS SHOWN.
- "EAST" CARDINAL DIRECTION MARKERS AND RIGHT TURN ARROWS ARE SHOWN. USE OTHER CARDINAL DIRECTIONS AND ARROWS AS APPROPRIATE.

BARRICADES AND SIGNS FOR MAINLINE CLOSURES

2

2

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STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION

/S/ Peter Amakobe Atepe

STATEWIDE WORK ZONE TRAFFIC SAFETY ENGINEER





URBAN ARFA



RURAL AREA (See Note 2)



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



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

White Edgeline Location

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

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

HWY:

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

PLOT BY : mscj9h

GENERAL NOTES

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

POST EMBEDMENT DEPTH

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

TYPICAL INSTALLATION OF PERMANENT TYPE II SIGNS ON SINGLE POSTS

WISCONSIN DEPT OF TRANSPORTATION

SHEET NO:

APPROVED

for State Traffic Engineer

DATE 7/23/15

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

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

PROJECT NO:

PLOT DATE: 23-JUL-2015 15:21

COUNTY:

PLOT NAME :

PLOT SCALE: 99.237937:1.000000

WISDOT/CADDS SHEET 42



NOTES: 1. ALL MATERIAL TO BE APPROVED

BY ENGINEER PRIOR TO INSTALLATION

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



ELEVATION VIEW

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



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

HWY:



PLAN VIEW

COUNTY:

FOR NEW CONCRETE/ASPHALT INSTALLATIONS

SIGN POST BOX-OUTS A4-3B

WISCONSIN DEPT OF TRANSPORTATION

For State Traffic Engineer

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

SHEET NO:

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

PROJECT NO:

PLOT DATE: 27-JAN-2014 09:48

PLOT NAME :

PLOT BY: mscsja

PLOT SCALE: 13.659812:1.000000

APPROVED

WISDOT/CADDS SHEET 42

GENERAL NOTES

- 1. For 3 or 4 post installations, individual post spacing shall be greater than 3'-6".
- 2. See tables below for required number of posts.
- 3. For expressways and freeways, mounting height is 7'-3'' (±) or 6'-3'' (±) depending upon existence of sub-sign.
- 4. The (±) tolerance for mounting height is 3 inches.
- 5. Minimum mounting height for J assemblies (A2-1S) is 7'-3'' (±) or 6'-3'' (±) per urban or rural detail respectively.
- 6. Offset distance shall be consistent with existing signs or consistent throughout length of project.
- 7. Folding signs shall be mounted at a height of 5'-3" (±) or as directed by the engineer.
- 8. The Double Arrow sign (W12-1) shall be mounted at a height of 2'-3" (±). The Chevron sign (W1-8). Roundabout Chevron panel (R6-4B), Clearance Markers (W5-52), Mile Markers (D10 series), In Road Object Markers (W5-54) & End of Road Markers (W5-56) shall be mounted at a height of 4"-3" (±).
- * 6 feet from edge of a paved shoulder or 12 feet from the edge of pavement (edge line location) or 2 feet from outside edge of gravel, whichever is greater unless directed by project engineer.
- ** The existence of curb and gutter does not in itself mandate the vertical clearance illustrated. That height is typically measured where there is sidewalk adjacent to the roadway or parking is permitted. In the absence of sidewalk vertical clearance is measured from the top of the curb. Offset of signs is measured from the flow line.
- *** See A4-3 sign plate for signs 4' or less in width and less than 20 S.F. in area.

URBAN AREA RURAL AREA (See Note 3) 2'Min - 4'Max (See Note 6) ₩E# FF# 6'-3"(±) 6'-3"(±) 7'-3"(±) ** Curb ********\ Flowline D **7000** White Edgeline D 11 White Edgeline, Location Outside Edae Location

2'Min - 4'Max (See Note 6) 6'-3"(±) Curb Flowline. -11

48" DIAMOND WARNING SIGN

HWY:

_ 26" 5 ' - 3 "(±) White Edgeline Location Outside Edge of Gravel 48" DIAMOND WARNING SIGN

COUNTY:

Outside Edge

of Gravel

	SIGN SHAPE OTHER THAN (TWO POSTS REQUIRED		
	L	E	
* * *	Greater than 48" Less than 60"	12"	
	60" to 120"	L/5	l

SIGN SHAPE OTHER THAN (THREE POSTS REQUIR	
L	E
Greater than 120" less than 168"	12"

SIGN SHAPE OTHER THAN (FOUR POSTS REQUIRE	
L	E
168" and greater	12"

POST EMBEDMENT DEPTH

of Gravel

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

Matther

SHEET NO:

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

PROJECT NO:

PLOT DATE: 23-JUL-2015 15:23

PLOT SCALE: 107.021305:1.000000

WISDOT/CADDS SHEET 42

PLOT NAME :

PLOT BY: mscj9h

WISCONSIN DEPT OF TRANSPORTATION APPROVED

For State Traffic Engineer

PLATE NO. 44-4.14 DATE 7/23/15



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

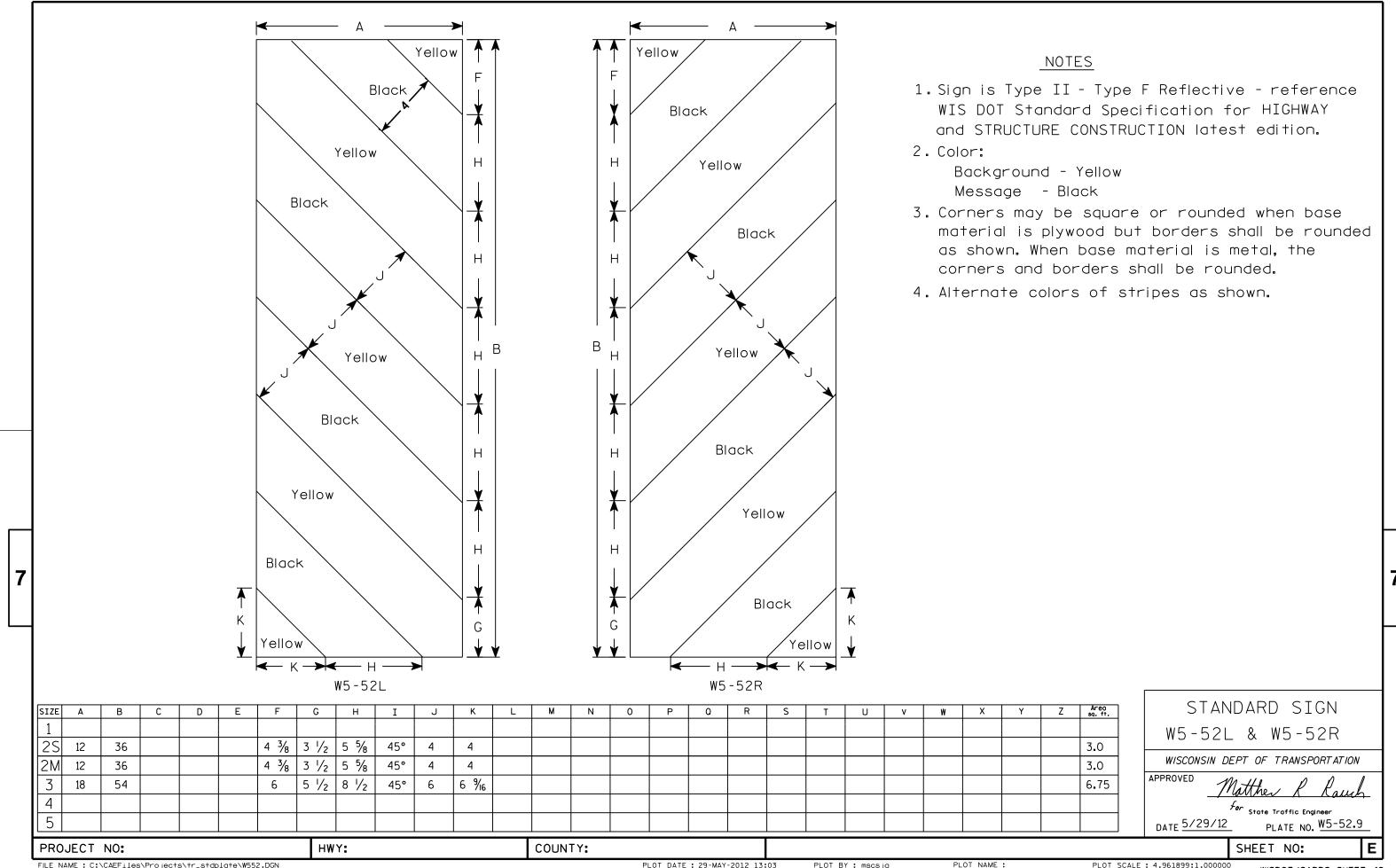
PLOT DATE . 11-416-2016 11:35

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

SHEET NO:

| | |







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

Background - Yellow Message - Black

3. Message Series - C

A I I I I I I I I I I I I I I I I I I I
W11-50

SIZE	Α	В	С	D	E	F	G	Н	I	J	К	L	М	N	0	Р	٥	R	S	Т	U	٧	w	Х	Y	Z	Area sq. ft.
1	24		1 1/8	3/8	1/2	4	2 3/8	3 3/4	10 ¾																		4.0
2S	30		1 3/8	1/2	5/8	5	3	4 %	13 3/8																		6.25
2M	36		1 %	5/8	3/4	6	3 1/2	5 %	16																		9.0
3	36		1 %	5/8	3/4	6	3 1/2	5 %	16																		9.0
4	48		2 1/4	3/4	1	8	5	7 3/8	21 1/4																		16.0
5																											

COUNTY:

STANDARD SIGN W11-50

WISCONSIN DEPT OF TRANSPORTATION

Matthew R

 \mathcal{F}_{or} State Traffic Engineer

DATE <u>12/1/16</u>

PLATE NO. <u>W11-50.4</u>

SHEET NO:

HWY:

PROJECT NO:

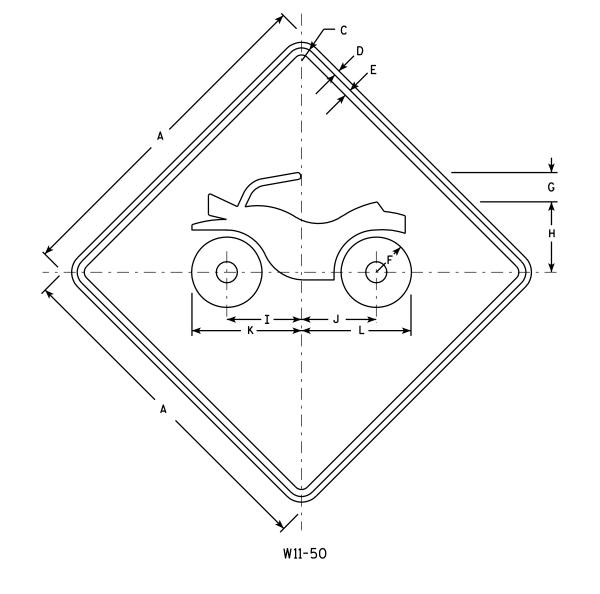
APPROVED

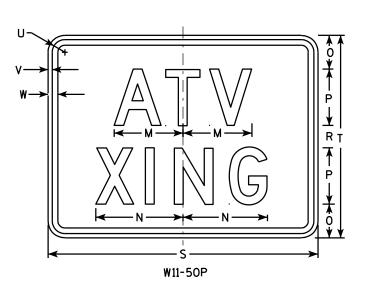
NOTES

- 1. Sign is Type II Type F Reflective reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
- 2. Color:

Background - Yellow Message - Black

- 3. Message Series D
- 4. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.





																											W11-50	
SIZE	A	В	С	D	E	F	G	н	I	J	K	L	M	N	0	Ρ	0	R	S	T	U	٧	W	X	Y	Z	Area sq. ft.	Area sq. ft.
1	24		1 1/8	3/8	3/8	2 1/2	2 1/8	5	5 1/8	5 1/2	7 %	7 1/8	3 3/4	4 3/4	2 1/4	3		1 1/2	18	12	1 1/8	3/8	3/8				4.0	1.5
2S	30		1 1/8	3%	1/2	3 1/8	2 %	6 1/4	6 1/6	6 %	9 1/2	8 %	6 1/8	7 3/4	3	5		2	24	18	1 1/8	3%	3/8				6.25	3.0
2M	36		1 5/8	5/8	3/4	3 3/4	3 3/6	7 1/2	7 3/4	8 1/4	11 3/8	10 %	7 3/8	9 1/2	4 1/2	6		3	30	24	1 1/8	3/8	1/2				9.0	5.0
3	36		1 %	5/8	3/4	3 ¾	3 3/6	7 1/2	7 3/4	8 1/4	11 3/8	10 %	7 3/8	9 1/2	4 1/2	6		3	30	24	1 1/8	3/8	1/2				9.0	5.0
4	48		2 1/4	3/4	1	5	4 1/8	10	10 %	10 %	15 %	15 1/2	9 %	12	5	8		4	36	30	1 3/8	1/2	5/8				16.0	7.5
5																												
PROJ	JECT	NO:						HWY:						COUN	TY:													

STANDARD SIGN W11-50 & W11-50P

WISCONSIN DEPT OF TRANSPORTATION

APPROVED

 f_{or} State Traffic Engineer

DATE 3/13/13

PLATE NO. W11-50.3

SHEET NO:

PLOT NAME :



LIVE LOAD: DESIGN LOADING: HL-93

INVENTORY RATING FACTOR: RF = 1.09 OPERATING RATING FACTOR: RF = 1.41

WISCONSIN STANDARD PERMIT VEHICLE (WIS-SPV) = 250 KIPS STRUCTURE IS DESIGNED FOR A FUTURE WEARING SURFACE

OF 20 PSF INVENTORY AND OPERATING RATINGS DO NOT INCLUDE

FUTURE WEARING SURFACE.

MATERIAL PROPERTIES:

CONCRETE MASONRY - SUPERSTRUCTURE f'c = 4.000 psi - ALL OTHER f'c = 3,500 psi

HIGH STRENGTH BAR STEEL REINFORCEMENT

fy = 60,000 psi AASHTO GRADE 60

FOUNDATION DATA

ABUTMENTS TO BE SUPPORTED ON 10 3/4" DIA CIP PILES (0.25" SHELL THICKNESS) WITH A REQUIRED DRIVING RESISTANCE OF 130 TONS* PER PILE AS DETERMINED BY THE MODIFIED GATES DYNAMIC EQUATION. ESTIMATED 90-LONG AT BOTH ABUTMENTS.

PIER TO BE SUPPORTED ON 10 3/4" DIA CIP PILES (0.25" SHELL THICKNESS) WITH A REQUIRED DRIVING RESISTANCE OF 130 TONS* PER PILE AS DETERMINED BY THE MODIFIED GATES DYNAMIC EQUATION, ESTIMATED 90-LONG.

*THE FACTORED AXIAL RESISTANCE OF PILES IN COMPRESSION USED FOR DESIGN IS THE REQUIRED DRIVING RESISTANCE MULTIPLIED BY A RESISTANCE FACTOR OF 0.5 USING MODIFIED GATES TO DETERMINE DRIVEN PILE CAPACITY.

HYDRAULIC DATA TRAFFIC DATA

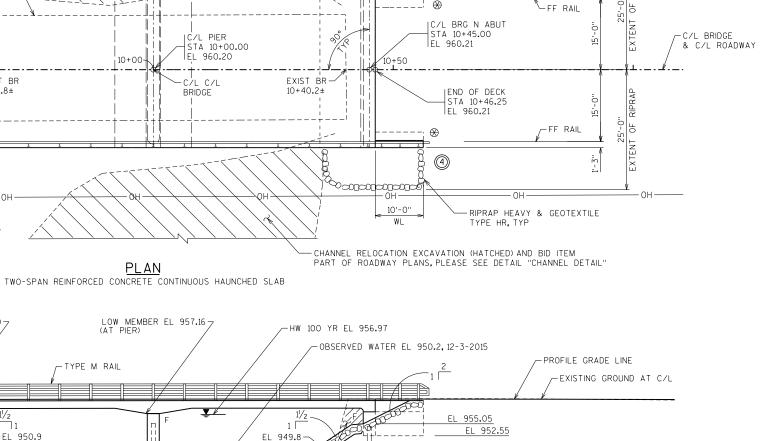
26.1 SQ MI

100 YEAR FREQUENCY ADT (2018) 2600 CFS ADT (2038) = 170 Q₁₀₀ THRU STRUCTURE 2600 CFS DHV = 17 4.85 FPS VELOCITY DD = 50% 956.97 FT HIGH WATER FL = 10% 536 SQ FT WATERWAY AREA DESIGN SPEED = 40 MPH

DRAINAGE AREA 2 YEAR FREQUENCY

787 CFS HIGH WATER EL 954.83 FT

SCOUR CODE



103/4" DIA CAST-IN-PLACE PILES

ELEV

956.70

957.55

968,51

AREA TO EXCAVATE (HATCHED) INCLUDED

<u>NORTH</u>

ABUTMENT

BENCHMARK (DATUM = NAVD88)

3/8" SPK IN PP

3/8" SPK IN PP

3/8" SPK IN PP

DESCRIPTION

IN "EXCAVATION FOR STRUCTURES BRIDGES". TYP

LEST 90-FT LONG AT EACH ABUTMENT

92'-6"

SPAN 2

10'-0"

WL

3

BACK TO BACK OF ABUTMENTS

10+00-

<u>PLAN</u>

TYPE M RAIL

←EL 950.9

APPROXIMATE STREAM-

BED EL 948.2±

LOW MEMBER EL 957.16 7

EL 945.32

1034" DIA CAST-IN-PLACE PILES

STATION

440'± SE OF BRIDGE

11+14.87, 25.68'RT

410'± NE OF BRIDGE

TEST 90-FT LONG AT PIER

<u>PIER</u>

ELEVATION

LOOKING WEST

·C/L C/L

BRIDGE

SPAN 1

-EXIST BR

9+59.8±

LIST OF DRAWINGS

- GENERAL PLAN
 CROSS SECTION AND QUANTITIES
- SUBSURFACE EXPLORATION
- SOUTH & NORTH ABUTMENT DETAILS SOUTH & NORTH ABUTMENT DETAILS
- PIER DETAILS

8/18/2017

- SUPERSTRUCTURE DETAILS
- SUPERSTRUCTURE DETAILS
- TUBULAR STEEL RAILING TYPE M



SEH CONTACT: CHRIS BLUM, PE, 608.620.6192 WISDOT BRIDGE OFFICE CONTACT: BILL DREHER, PE, 608.266.8489

NO. DATE REVISION BY SEH

SHORT ELLIOTT HENDRICKSON INC.

STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION

ACCEPTED William C. Drehe SDR 08/21/17 CHIEF STRUCTURES DESIGN ENGINEER DATE

STRUCTURE B-9-306

CTH K OVER LITTLE DRYWOOD CREEK

TOWN/CITY/VILLAGE ANSON AASHTO LRFD BRIDGE DESIGN SPECIFICATIONS DESIGNED DESIGN DRAWN PLANS
BY NCK CK'D. CJB BY DLF CK'D. NCK

SHEET 1 OF 9 GENERAL PLAN



O INDICATES WING.

WL = WING LENGTH

 $\langle \rangle$

965

960 955

950

945

-GEOTEXTILE

★ LOCATION OF ANCHOR

ASSEMBLIES FOR THRIE BEAM.

EXISTING BRIDGE (P-9-62) -

2

 \otimes

10'-0"

WL

Beareneprerie

LOW MEMBER EL 958.20 -

SOUTH

<u>ABUTMENT</u>

(AT S ABUT)

TYP BERM

TO BE REMOVED

END OF DECK

C/L BRG S ABUT STA 9+55.00 EL 960.11

EL 954.95 EL 952.45

STREAM PED 7

NAMEPLATE

LOCATION ON WING 1

-RIPRAP

HEAVY

 $1\frac{1}{2}$ MIN

4'-0"

TYP

DETAIL

BOTH ENDS OF BRIDGE

STA 9+53.75 EL 960.11

** 6" NOMINAL

3⁄8" MAX

SECTION B-B

RODENT SHEILD

THE RODENT SHIELD SHALL BE A PVC GRATE SIMLAR 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.

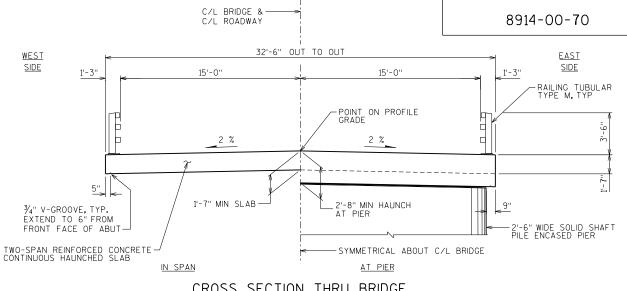
**NOTE: DIMENSIONS ARE APPROXIMATE. THE GRATE IS SIZED TO FIT INTO A PIPE COUPLING, ORIENT

RODENT SHIELD, PIPE COUPLING, AND SCREWS

ITEM "PIPE UNDERDRAIN WRAPPED 6-INCH".

SHALL BE CONSIDERED INCIDENTAL TO THE BID

SHIELD SO SLOTS ARE VERTICAL.



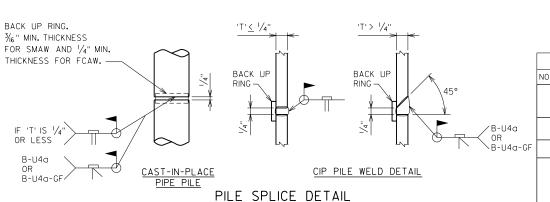
CROSS SECTION THRU BRIDGE

TOTAL ESTIMATED QUANTITIES - B-9-306

	BID ITEM	DID ITEMS		SOUTH	NORTH	DIED	CURER	
	NUMBER	BID ITEMS	UNIT	ABUT	ABUT	PIER	SUPER	TOTALS
	203.0600.5	REMOVING OLD STRUCTURE OVER WATERWAY WITH MINIMAL DEBRIS (STATION) 10+00	LS	-	-	-	=	1
	206.1000	EXCAVATION FOR STRUCTURES BRIDGES B-9-306	LS	-	-	-	-	1
1	210.1500	BACKFILL STRUCTURE TYPE A	TON	156	156	-	-	312
	502.0100	CONCRETE MASONRY BRIDGES	CY	29.5	29.5	30.0	194	283
	502.3200	PROTECTIVE SURFACE TREATMENT	SY	-	-	-	408	408
	505.0400	BAR STEEL REINFORCEMENT HS STRUCTURES	LB	1940	1940	1650	-	5530
	505.0600	BAR STEEL REINFORCEMENT HS COATED STRUCTURES	LB	1480	1480	60	47,730	50,750
	506.0105	STRUCTURAL STEEL CARBON	LB	-	-	-	590	590
	513.4061	RAILING TUBULAR TYPE M B-9-306	LF	-	-	-	230	230
	516.0500	RUBBERIZED MEMBRANE WATERPROOFING	SY	10	10	-	-	20
	550.2104	PILING CIP CONCRETE 10 3/4 X 0.25-INCH	LF	450	450	900	-	1800
	606.0300	RIPRAP HEAVY	CY	62	62	-	-	124
2	612.0406	PIPE UNDERDRAIN WRAPPED 6-INCH	LF	101	101	-	-	202
	645.0111	GEOTEXTILE TYPE DF SCHEDULE A	SY	40	40	-	-	80
	645.0120	GEOTEXTILE TYPE HR	SY	129	129	-	-	258
		NON-BID ITEMS						
		FILLER	SIZE					1/2 & 3/4

- (1) A FACTOR OF 2.0 WAS USED TO CONVERT CU YDS TO TONS.
- (2) INCLUDES RODENT SHEILD FOR PIPE UNDERDRAIN PER SDD 8F6-4.

ROADWAY MATERIALS ROADWAY MATERIALS -ABUT-WING -(1'-0"±) (1'-0''±) FRONT FACE-←FRONT FACE -SIDE SLOPE LIMITS OF STRUCTURE BACKFILL TYPE A RIPRAP (AROUND WING) STRUCTURE BACKFILL TYPE A: RIPRAP "GEOTEXTHE TYPE DE "GEOTEXTILE TYPE DF SCHEDULE A" LIMITS. EXTEND 2'-0" ABOVE SCHEDULE A" LIMITS. 3'-0" 3'-0" 3'-0" EXTEND 2'-0" ABOVE REQ'D REQ'D REQ'D BOTTOM OF ABUTMENT BOTTOM OF ABUTMENT AT ABUTMENT BACKFILL STRUCTURE LIMITS ightarrow PIPE UNDERDRAIN WRAPPED (6-INCH) SLOPE 0.5% MIN TO SUITABLE DRAINAGE. ATTACH RODENT SHIELD AT A FACTOR OF 2.0 WAS USED TO CONVERT CU YDS TO TONS ENDS OF PIPE.



GENERAL NOTES

DRAWINGS SHALL NOT BE SCALED.

FOR EXISTING STRUCTURE SEE PROFILE GRADE LINE THIS SHEET.

REFER TO ROADWAY DRAWINGS FOR EXISTING UTILITY LOCATIONS.

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.

STATE PROJECT NUMBER

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

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

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

SEAL ALL EXPOSED HORIZONTAL AND VERTICAL SURFACES OF $\frac{1}{2}$ " FILLER WITH NON-STAINING GRAY NON-ASPHALTIC JOINT SEALER (1" DEEP & HOLD $\frac{1}{8}$ " BELOW SURFACE OF CONCRETE).

THE UPPER LIMITS OF EXCAVATION FOR STRUCTURES BRIDGES B-9-306 SHALL BE THE EXISTING GROUNDLINE.

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

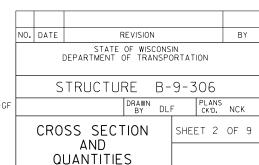
THE QUANTITY FOR BACKFILL STRUCTURE TYPE A IS CALCULATED BASED THE BACKFILL STRUCTURE LIMITS DETAILS SHOWN ON THIS SHEET.

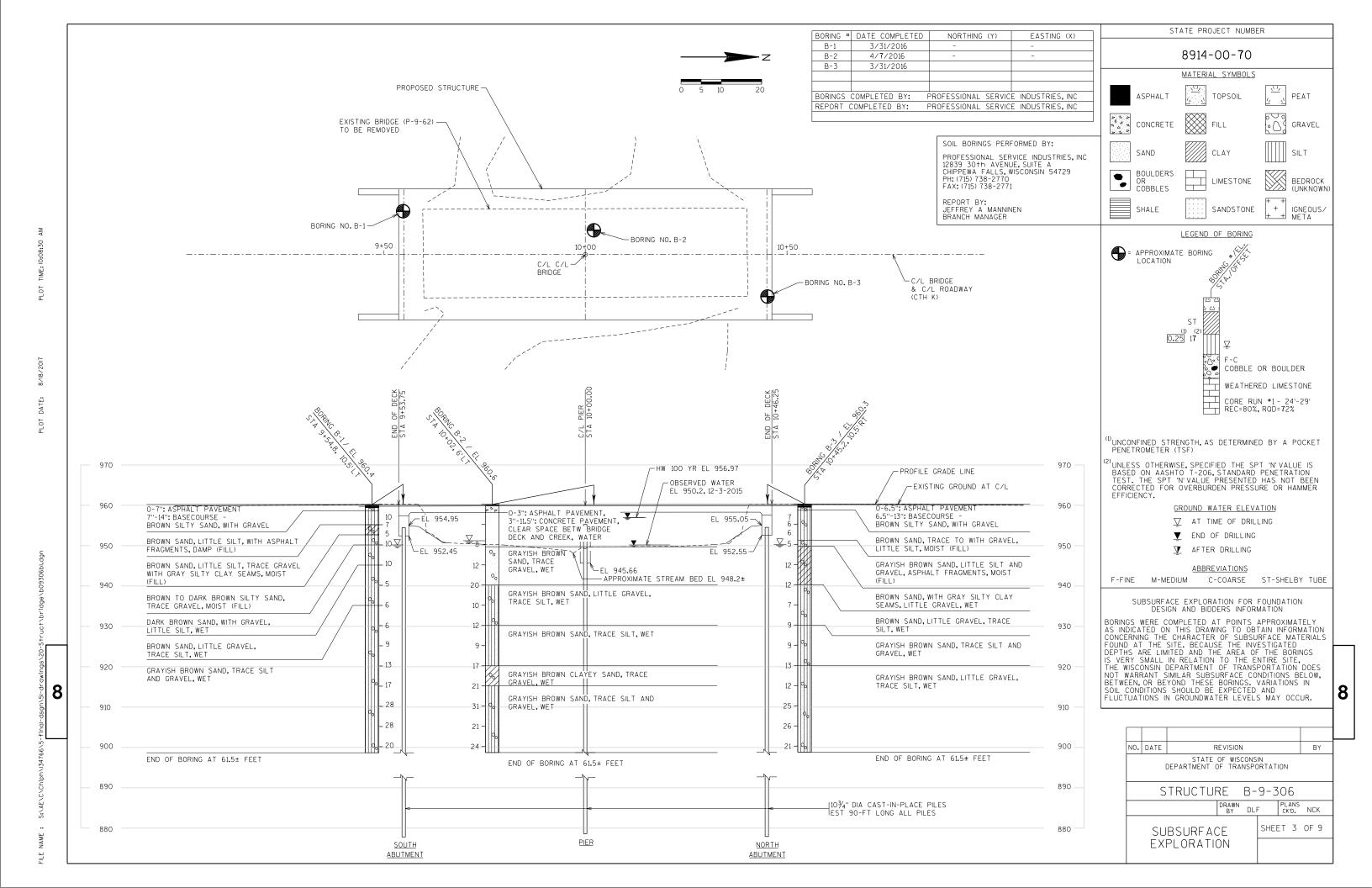
BACKFILL STRUCTURE BEYOND BACKFILL PAY LIMITS SHALL BE INCIDENTAL TO EXCAVATION TO STRUCTURES. LIMITS OF EXCAVATION SHALL BE DETERMINED BY THE CONTRACTOR.

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

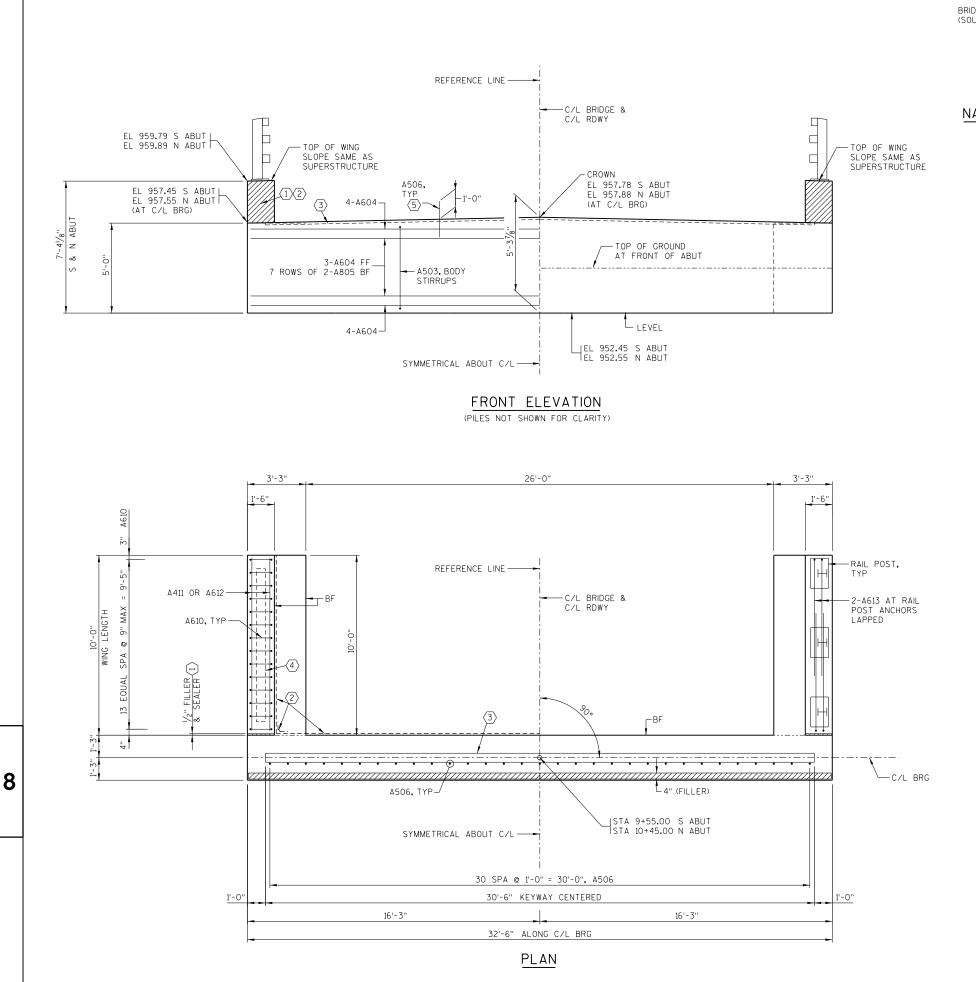
JOINT FILLER SHALL CONFORM TO THE REQUIREMENTS OF AASHTO DESIGNATION M153 TYPE 1, 2, OR 3 OR AASHTO DESIGNATION M213.

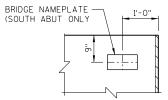
APPLY A PROTECTIVE SURFACE TREATMENT PER THE STANDARD SPECIFICATIONS AND THE SUPERSTRUCTURE DETAILS SHEET.





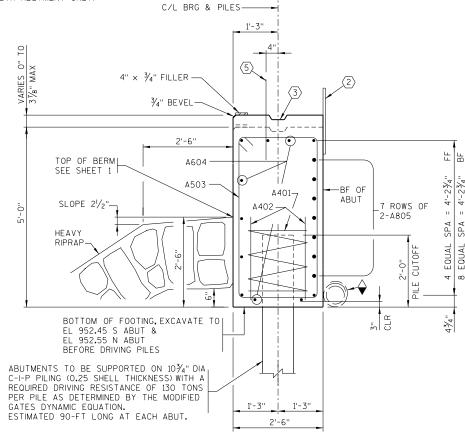






NAMEPLATE LOCATION DETAIL

(ON WING 1 SOUTH ABUTMENT ONLY)



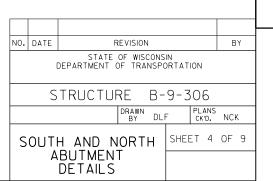
TYPICAL SECTION THRU BODY ALL HORIZ BARS TO BE A604 UNLESS OTHERWISE SHOWN OF NOTED

ABUTMENT NOTES

- (1) SEAL ALL EXPOSED HORIZ. AND VERTICAL SURFACES OF 1/2" FILLER WITH NON-STAINING GRAY NON-ASPHALTIC JOINT SEALER. (1" DEEP AND HOLD 1/8" BELOW SURFACE). FILLER INCLUDED IN WING LENGTH.
- (2) 18" RUBBERIZED MEMBRANE WATERPROOFING. SEAL ALL HORIZ & VERT JOINTS ON BACKFACE. VERTICAL WATERPROOFING TO EXTEND FROM BRIDGE SEAT TO TOP OF WING.
- 3 KEYED CONSTRUCTION JOINT FORMED BY A BEVELED
- $\overline{\mbox{4}}\mbox{OPTIONAL}$ KEYED CONSTRUCTION JOINT FORMED BY A BEVELED 2" X 6" WITH MEMBRANE ON BACKFACE.
- (5) A506 BARS MAY BE PLACED AFTER CONC HAS BEEN POURED BUT BEFORE INITIAL SET HAS TAKEN PLACE.
- PIPE UNDERDRAIN WRAPPED (6-INCH) SLOPE 0.5% MIN TO SUITABLE DRAINAGE. ATTACH RODENT SHIELD AT END OF PIPE.
- () ATTACH RODENT SHIELD AT END OF PIPE UNDERDRAIN, FOR RODENT SHIELD DETAIL SEE SHEET 2.

S ABUT = SOUTH ABUTMENT N ABUT = NORTH ABUTMENT

FF = FRONT FACE BF = BACK FACE EF = EACH FACE



8

STATE PROJECT NUMBER

8914-00-70



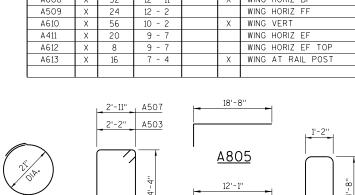
STATE PROJECT NUMBER

NOTE: THE FIRST DIGIT OF THE BAR MARK SIGNIFIES THE ENGLISH BAR DIAMETER SIZE.

DIMENSIONS IN BENDING DETAILS ARE OUT TO OUT.

 \star NO.REQ'D. IS FOR 2 ABUTMENTS. DIVIDE BY 2 FOR EACH ABUTMENT.

BILL ()F	BARS			В	OTH ABUTMENTS
BAR MARK	COAT	NO. * REQ'D.	LENGTH (FT-IN)	BAR SERIES	BEN	LOCATION
A401		10	28 - 0		Х	BODY AT PILES
A402		20	2 - 3			BODY AT PILES
A503		80	13 - 8		Х	BODY STIRRUPS
A604		22	32 - 1			BODY HORIZ
A805		28	19 - 6		Χ	BODY HORIZ BF
A506	Х	62	2 - 0			BODY DOWELS
A507	Χ	40	15 - 2		Χ	WING STIRRUPS
A608	Χ	32	12 - 11		Χ	WING HORIZ BF
A509	Χ	24	12 - 2			WING HORIZ FF
A610	Χ	56	10 - 2		Χ	WING VERT
A 411	Χ	20	9 - 7			WING HORIZ EF
A612	Х	8	9 - 7			WING HORIZ EF TOP
A613	Х	16	7 - 4		Χ	WING AT RAIL POST



<u> 4608</u>

<u> 4610</u>

8

A503, A507 <u> 4401</u>

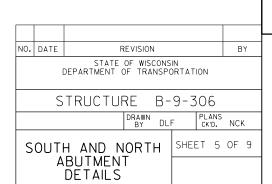
<u>A613</u>

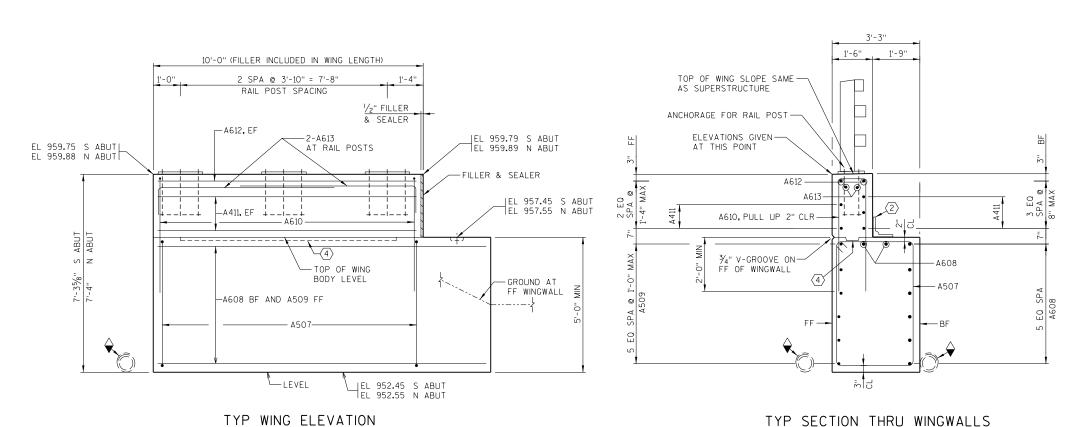
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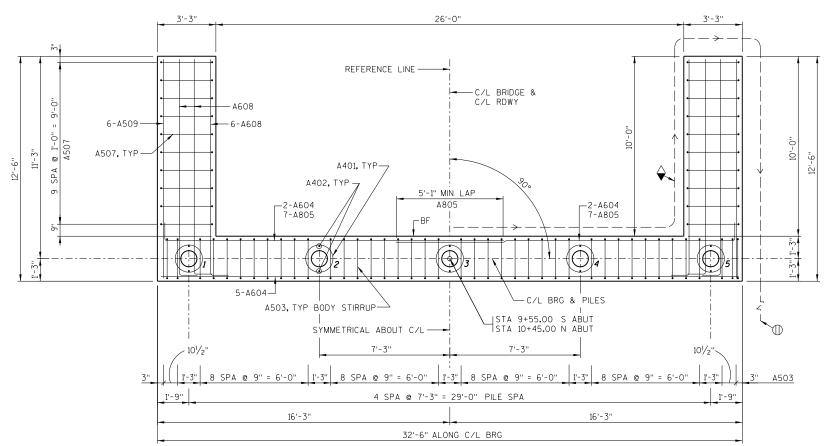
SEE ABUTMENT NOTES ON SHEET 4 (2)440.

S ABUT = SOUTH ABUTMENT N ABUT = NORTH ABUTMENT

FF = FRONT FACE BF = BACK FACE EF = EACH FACE

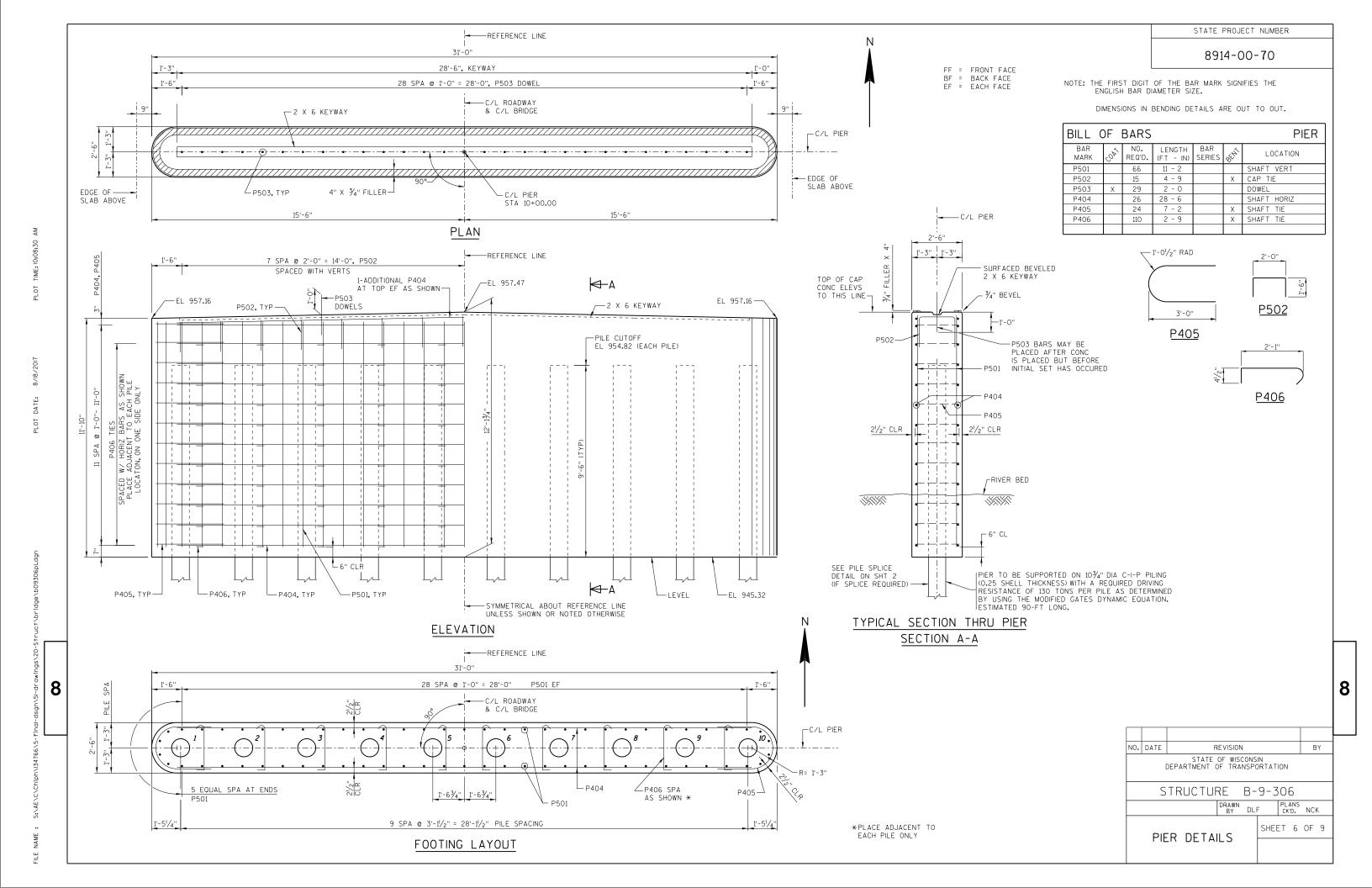


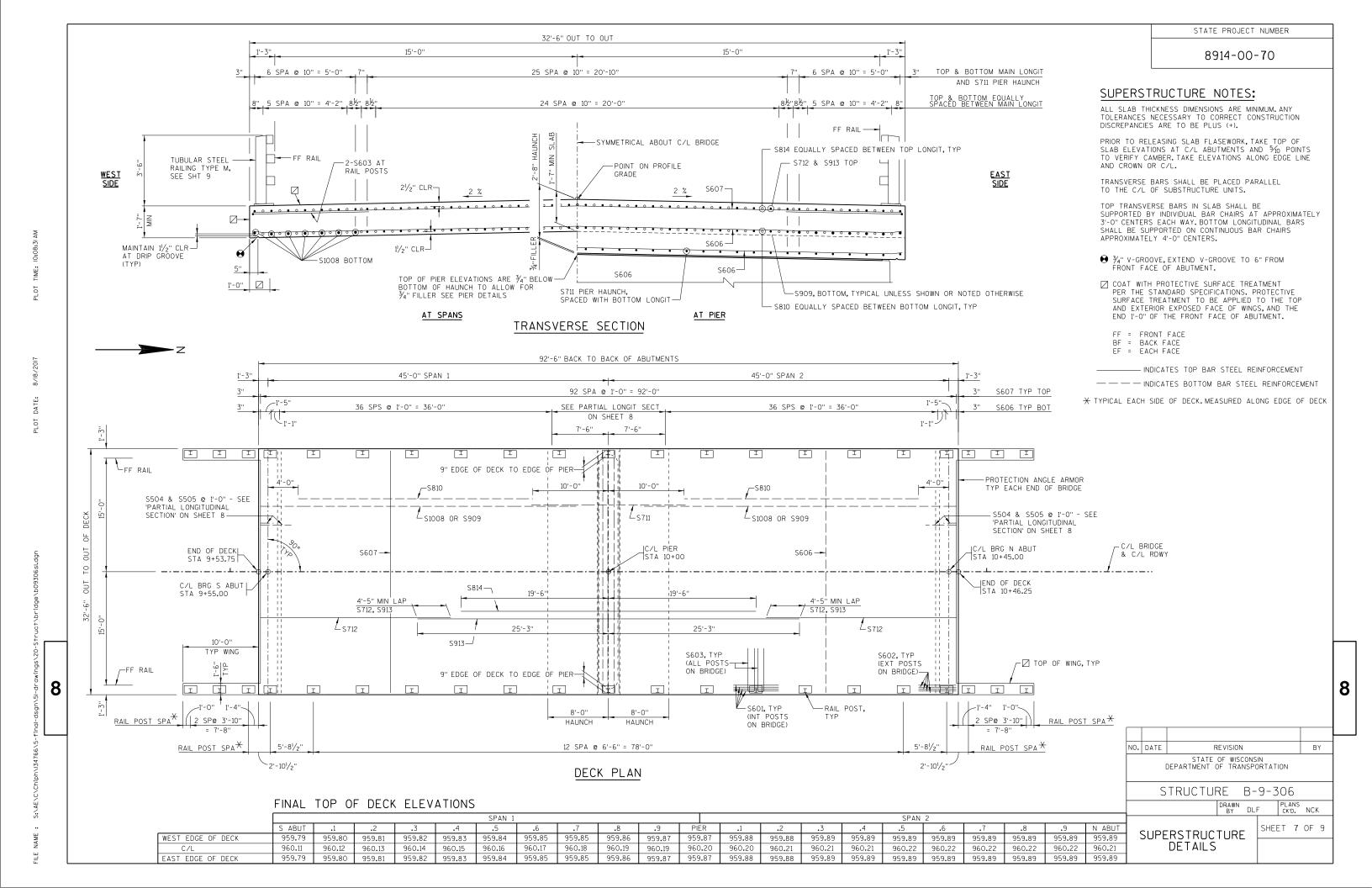




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FOOTING LAYOUT



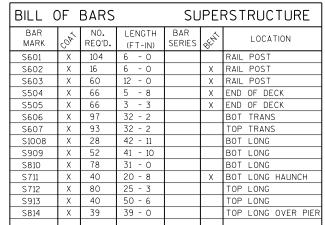


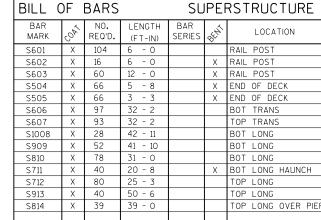
STATE PROJECT NUMBER

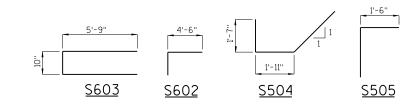
8914-00-70

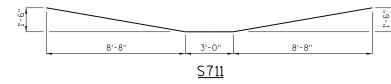
NOTE: THE FIRST DIGIT OF THE BAR MARK SIGNIFIES THE ENGLISH BAR DIAMETER SIZE.

DIMENSIONS IN BENDING DETAILS ARE OUT TO OUT.



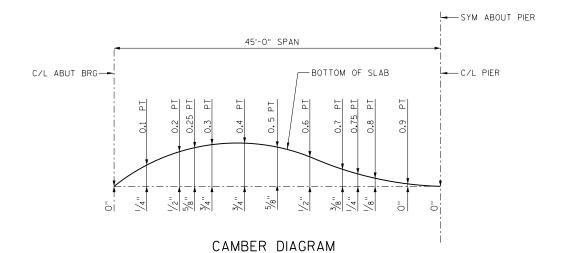






NOTES:

SEE SHEET 7 FOR SUPERSTRUCTURE NOTES.



CAMBER SPAN AS SHOWN TO PROVIDE FOR DEAD LOAD DEFLECTION

& FUTURE CREEP. CAMBER DOES NOT INCLUDE VERTICAL ROADWAY
PROFILE OR ALLOWANCE FOR FORM SETTLEMENT. DEAD LOAD DEFLECTION
ONLY EQUALS APPROXIMATELY 1/3 OF CAMBER VALUES SHOWN.

PROTECTION ANGLE ARMOR (PAYMENT BASED ON 9.9 LBS/FT)

1/4"

 $\frac{1}{2}$ " X 4" LONG ANCHOR STUDS, WELD TO ANGLE AT 6" ALTERNATE CENTERS

PROTECTION ANGLE ARMOR NOTES:

FIELD CUT 31/2" LEG OF ANGLE AS REO'D FOR BENDING. ANGLE TO CONFORM TO ROADWAY CROWN. ONE CUT SHALL BE AT CROWN

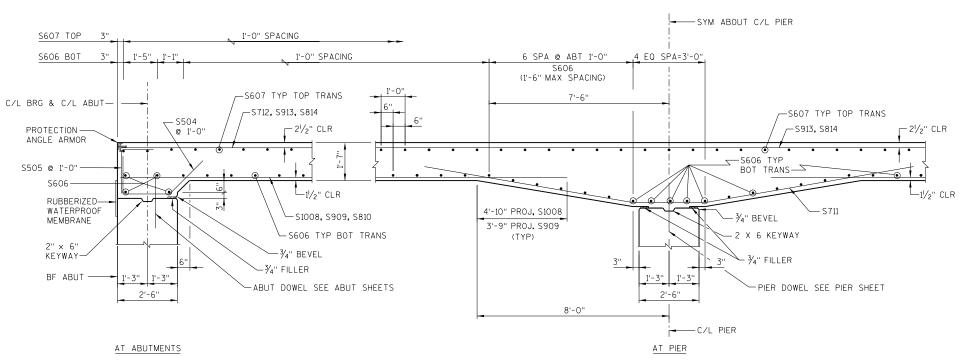
L 3½" X 2½" X ½" X 29'-6" LONG

ONE FIELD SPLICE SHALL BE PERMITTED IN ANGLES OVER 34'-0" IN LENGTH.

ANGLE AND STUDS TO BE PAID FOR AT THE UNIT PRICE BID FOR "STRUCTURAL CARBON STEEL". NO PAINTING REQUIRED.

SANDBLAST PROTECTION ANGLE AFTER FABRICATION IN ACCORDANCE WITH SSPC SP. #6 "COMMERCIAL BLAST CLEANING". AFTER BLAST CLEANING, THE PROTECTION ANGLE SHALL BE HOT DIPPED GALVANIZED.

ALL MATERIALS USED IN FABRICATION SHALL BE MADE FROM MATERIALS CONFORMING TO ASTM DESIGNATION A709 GRADE 36.



PARTIAL LONGITUDINAL SECTION

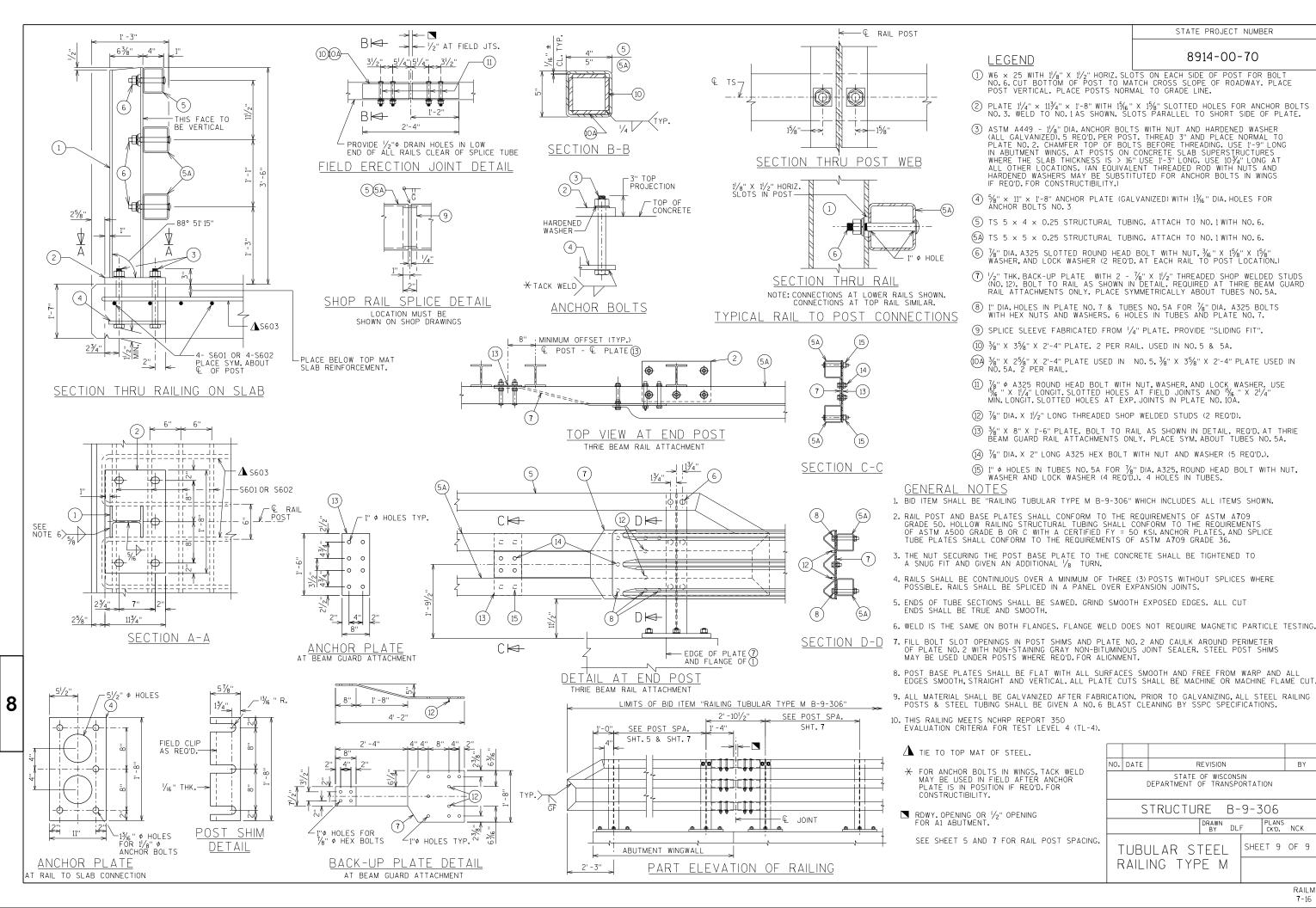
NO. DATE REVISION BY STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION STRUCTURE B-9-306 PLANS CK'D. NCK SHEET 8 OF 9

SUPERSTRUCTURE DETAILS

8







PLANS CK'D. NCK

BY

					CTHK			
		AREA	(SF)	Incremental Vol	(CY) (Unadjusted)	Cumulati	/e Vol (CY)	
Station	Distance	Cut	Fill	Cut Note 2	Fill Note 3	Cut 1.00 Note 2	Expanded Fill 1.30 Note 4	Mass Ordinate
8+00	0.00	24.86	0	0.0	0.0	0	0	0
8+50	50.00	19.62	20.39	41.2	18.9	41	25	16
9+00	50.00	22.65	33.38	39.1	49.8	80	90	-10
9+44	43.75	42.43	39.64	52.7	59.2	133	167	-34
10+56	1.25	28.99	22.45	0.7	0.5	134	168	-34
11+00	43.75	23.63	34.47	42.6	46.1	177	228	-51
11+50	50.00	25.01	28.74	45.0	58.5	222	304	-82
11+75	25.00	27	l o l	24.1	13.3	246	321	-75

				L	ittle Drywood Creek			
		AREA	(SF)	Incremental Vol	(CY) (Unadjusted)	Cumulative	Vol (CY)	
Station	Station Distance		Fill	Cut Note 2	Fill Note 3	Cut 1.00 Note 2	Expanded Fill 1.30 Note 4	Mass Ordinate Note 5
999+25	0.00	Note 1 0.00	0		******	Note 2	Note 4	Note 5
	1		- 1	0.0	0.0	"	0	U
999+50	25.00	16.69	0	7.7	0.0	8	0	8
999+75	25.00	85.5	0	47.3	0.0	55	0	55
1000+00	25.00	1.63	0	40.3	0.0	95	0	95
1000+25	25.00	128	0	60.0	0.0	155	0	155
1000+50	25.00	187.3	0	146.0	0.0	301	0	301
1000+75	25.00	69.29	0	118.8	0.0	420	0	420
1001+00	25.00	0	0	32.1	0.0	452	0	452

1) Salvaged/Unusable Pavement Material is included in Cut. Notes:

2) Excavation Common is the sum of the Cut column. Item number 205.0100

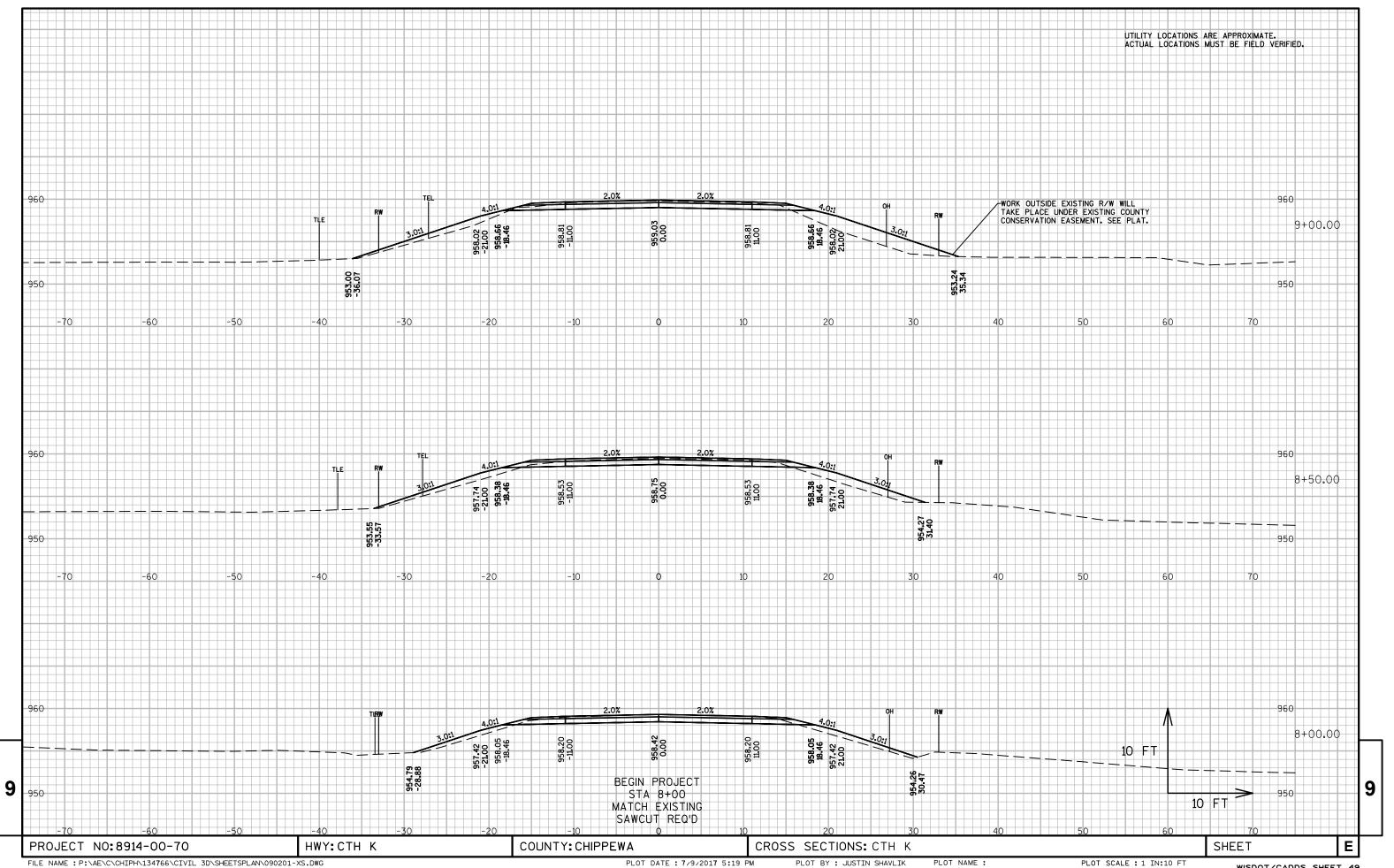
3) Does not include Unusable Pavement Excavation volume.

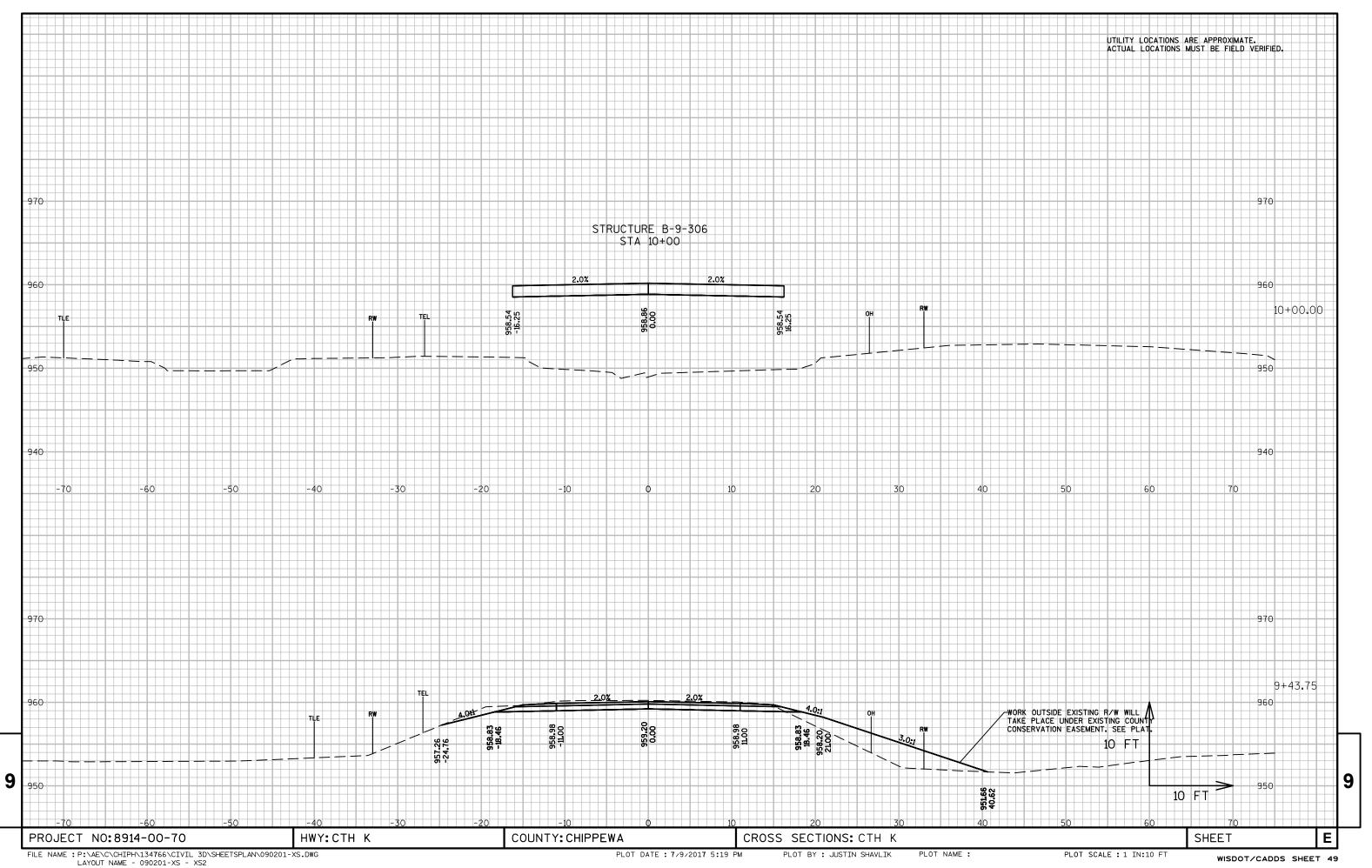
4) Will be backfilled with Excavation Common or Borrow.
5) Plus quantity indicates an excess of material. Minus indicates a shortage of material. Borrow item number 208.0100

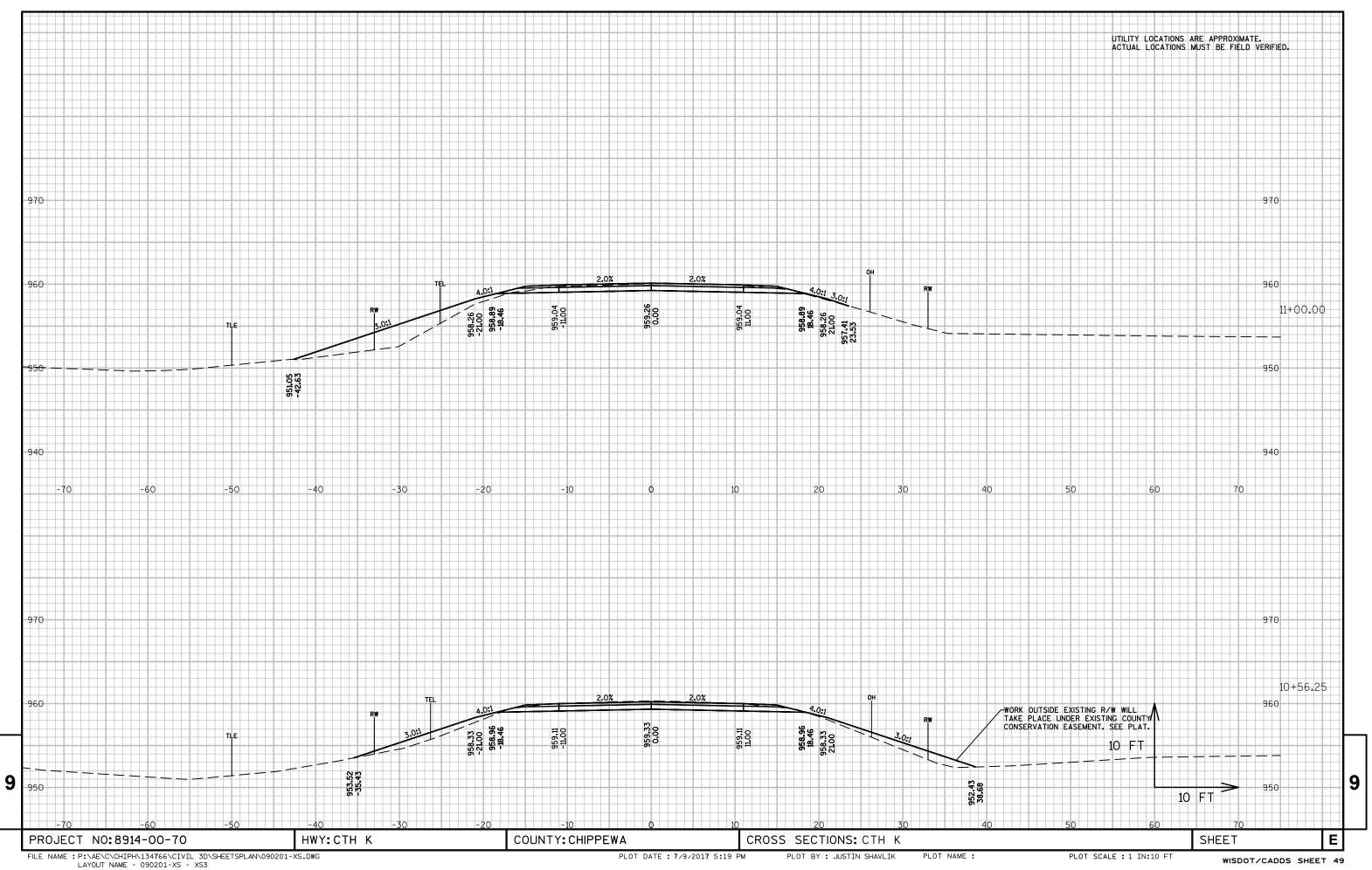
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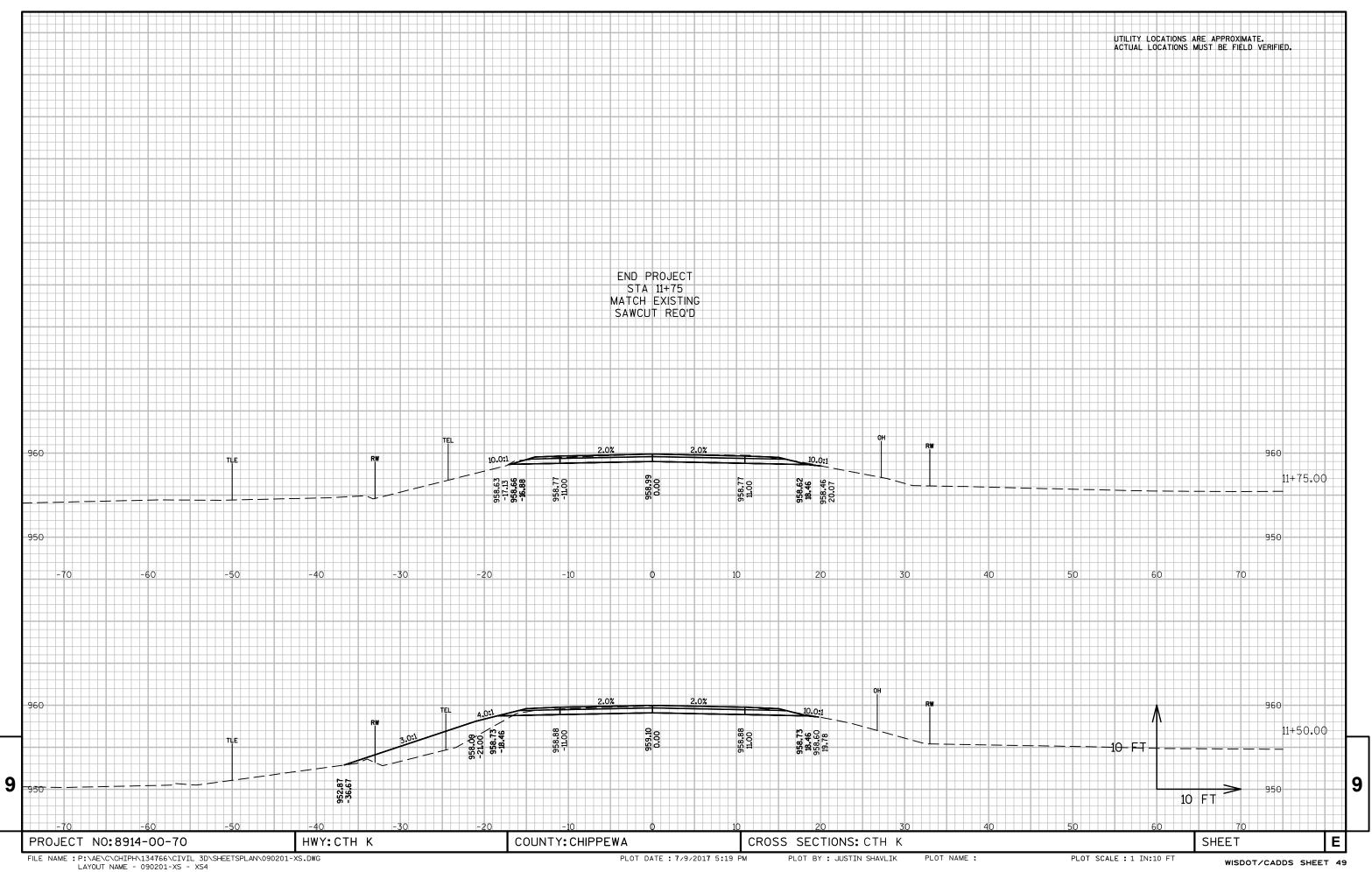
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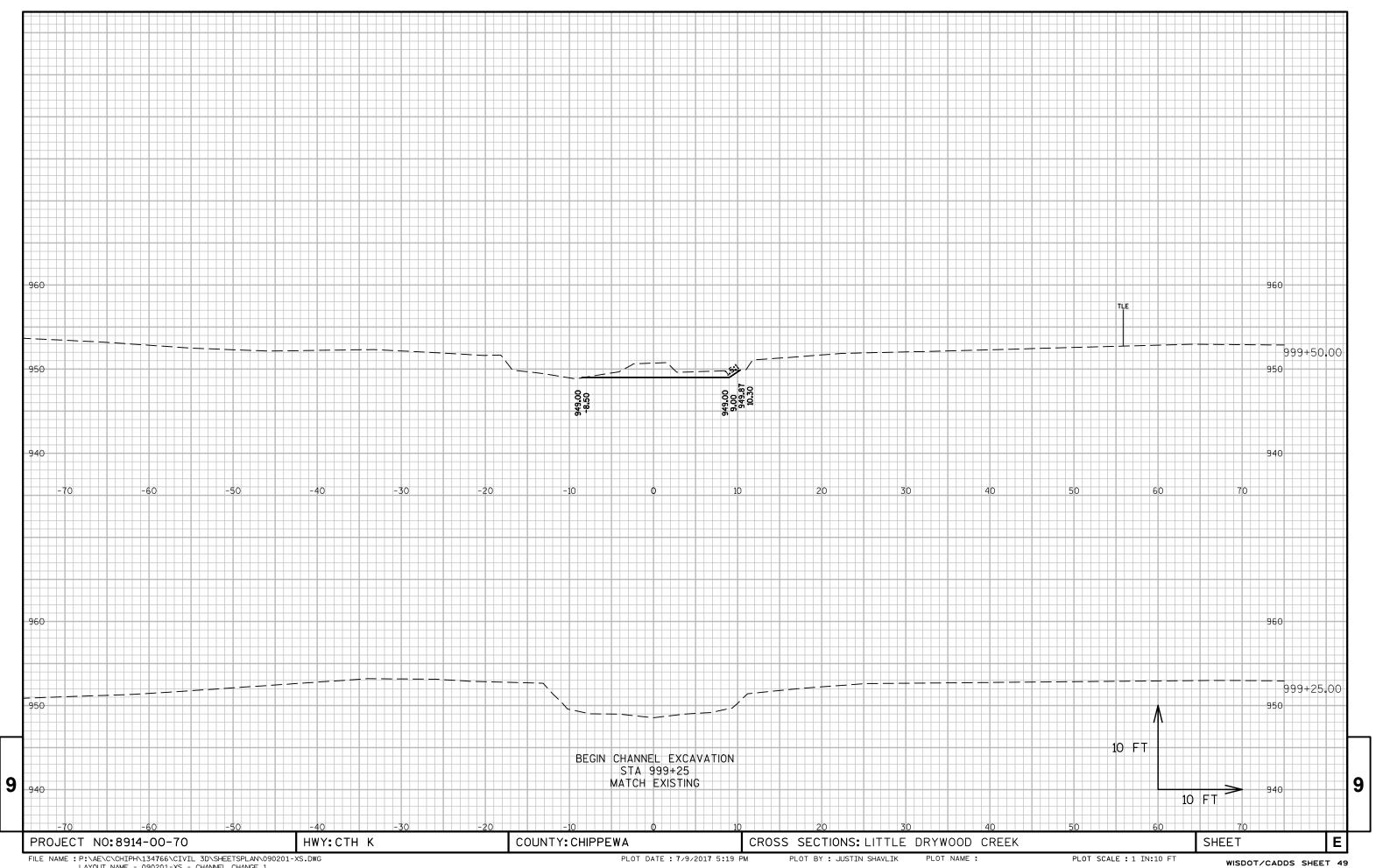
COUNTY: CHIPPEWA PROJECT NO:8914-00-70 HWY: CTH K EARTHWORK TABULATIONS SHEET Ε

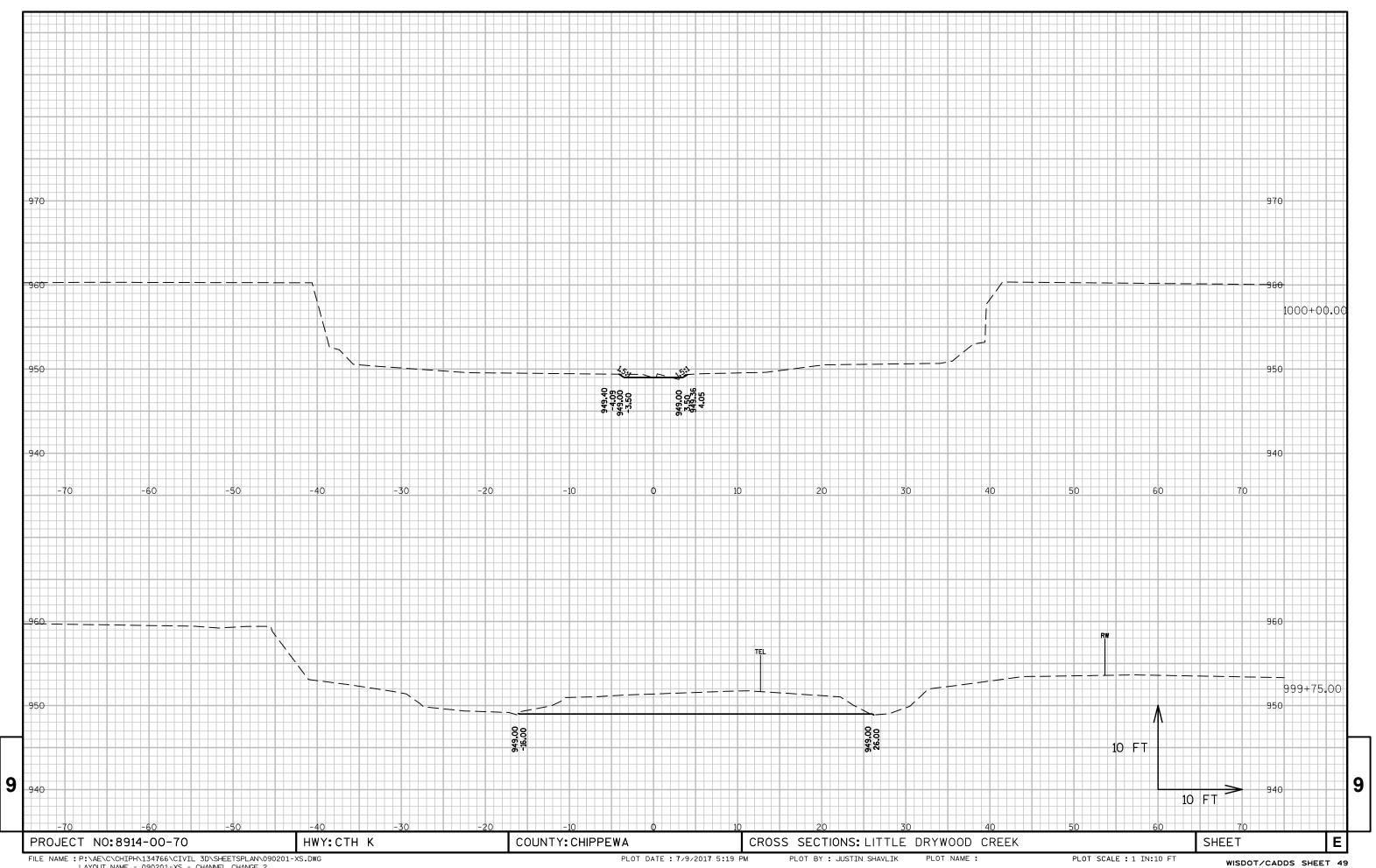


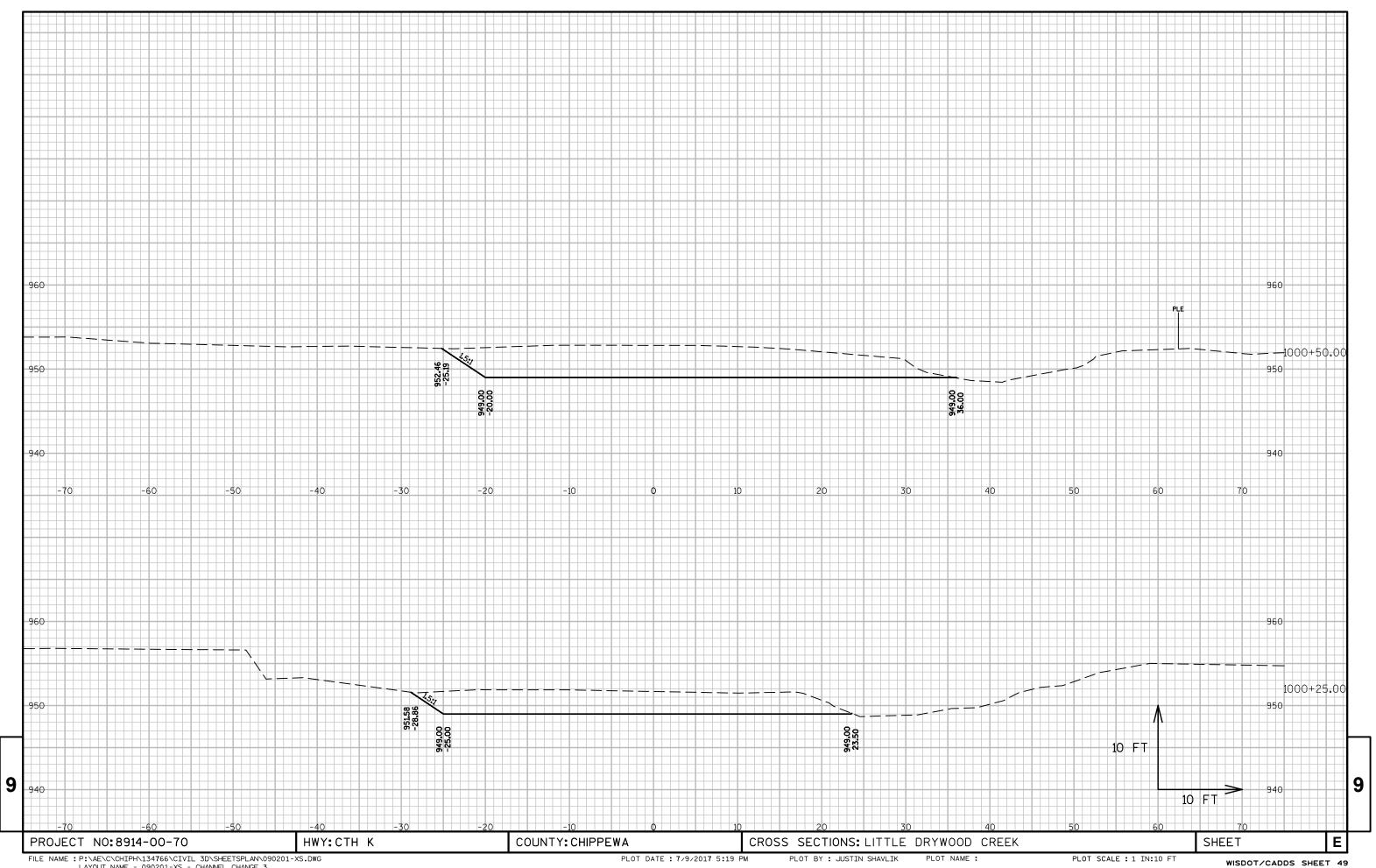


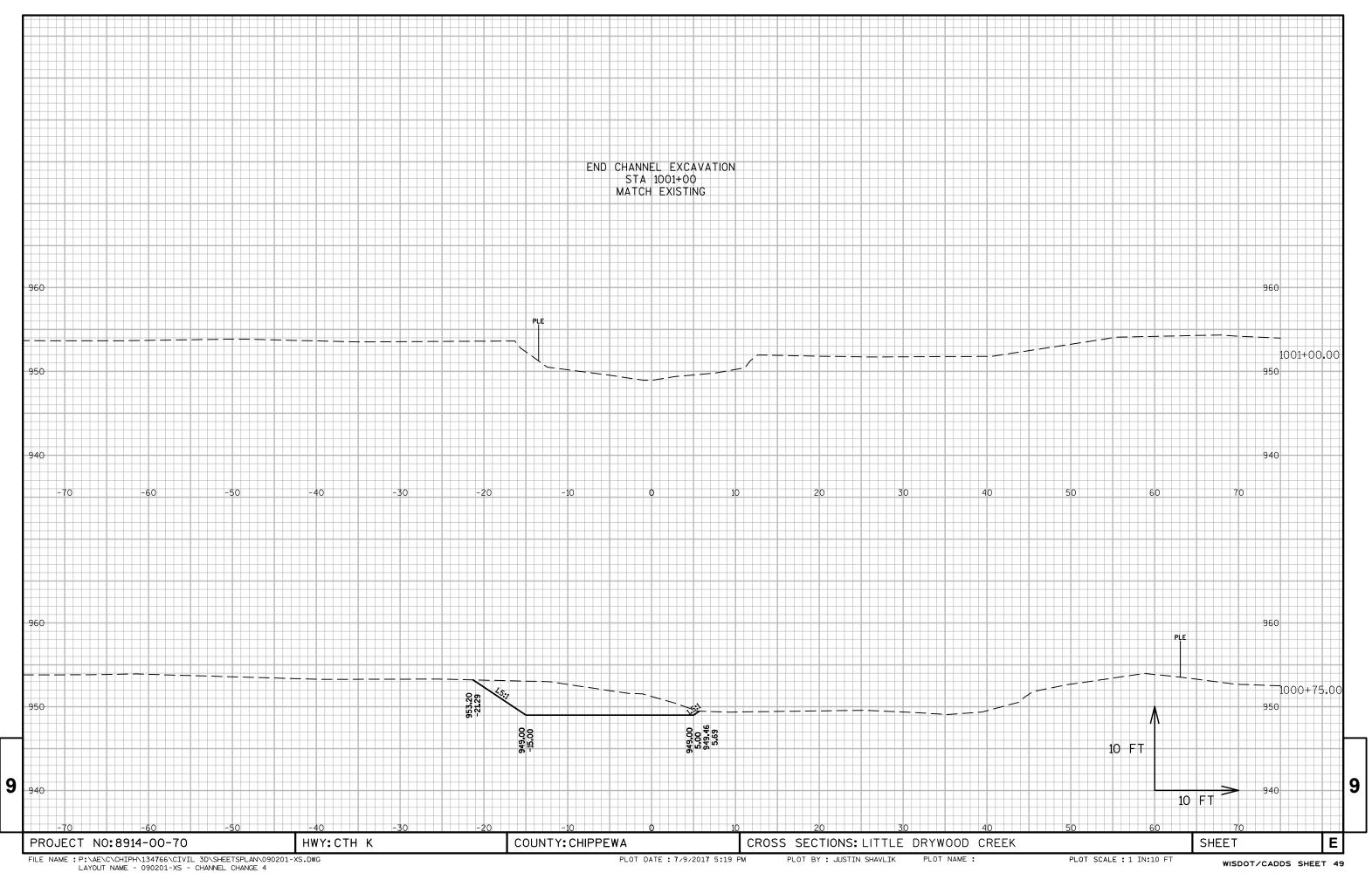












Notes



Wisconsin Department of Transportation

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