PROJECT WITH: N/A

O 39-00-7

П RNO

DECEMBER 2018 ORDER OF SHEETS

Typical Sections and Details Estimate of Quantities

Miscellaneous Quantitles Section No. 3

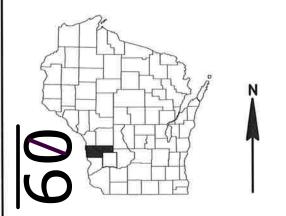
Plan and Profile (Includes Erosion Control) Section No. 5

Standard Detail Drawings Section No. 6

Sign Plates Section No. 7 Structure Plans Section No. 8

Section No. 9 Cross Sections

TOTAL SHEETS = 34



DESIGN DESIGNATION 5539-00-70

A.A.D.T. 2019 = 200 2039 = 230 A.A.D.T. D.H.V. = 34 = 60/40 D.D. = 5.0% DESIGN SPEED = 40 M.P.H. = 22,000 **ESALS**

CONVENTIONAL SYMBOLS

HIGH VOLTAGE

MARSH AREA

WOODED OR SHRUB AREA

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 OVERHEAD UTILITY FIBER OPTIC SANITARY SEWER STORM SEWER CAUTION TELEPHONE WATER UTILITY PEDESTAL POWER POLE ₽ TELEPHONE POLE

STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION

PLAN OF PROPOSED IMPROVEMENT

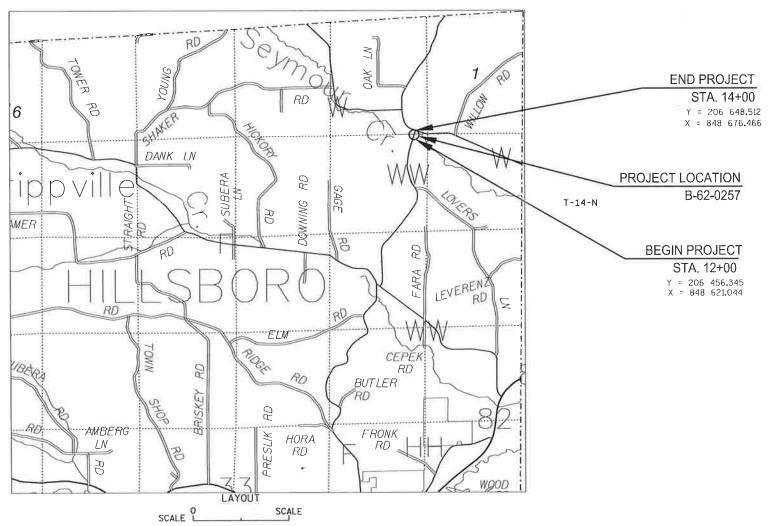
CTH WW - CTH W

(SEYMOUR CREEK BRIDGE B-62-0257) **CTH WW**

VERNON COUNTY

STATE PROJECT NUMBER 5539-00-70

R-01-E



HORIZONTAL POSITIONS SHOWN ON THIS PLAN ARE WISCONSIN COUNTY COORDINATES, VERNON COUNTY, NAD83 (2011), IN U.S. SURVEY FEET. VALUES ARE GRID COORDINATES, GRID BEARINGS, AND GRID TOTAL NET LENGTH OF CENTERLINE = 0.0038 MI

FEDERAL PROJECT STATE PROJECT PROJECT CONTRACT 5539-00-70

ACCEPTED FOR

ORIGINAL PLANS PREPARED BY



619 EAST HOXIE STREET P.O. BOX 429 SPRING GREEN, WISCONSIN 53588 PHONE (608) 588-7866 FAX (608) 548-7954 SCONS

AARON B. **PALMER** E-35695 RICHLAND CENTER.

STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION

WESTBROOK

WESTBROOK

PREPARED BY Surveyor

Designer Managemen

KL ENGINEERING, INC

DISTANCES. GRID DISTANCES MAY BE USED AS GROUND DISTANCES.

CONTACTS

GENERAL NOTES

EROSION CONTROL ITEMS TO BE PLACED AS SHOWN ON THE PLAN OR AS DIRECTED BY THE ENGINEER. SILT FENCE SHALL BE IN PLACE PRIOR TO CONSTRUCTION. ALL EROSION CONTROL MEASURES SHALL BE MAINTAINED UNTIL SUCH TIME AS THE ENGINEER DETERMINES THE MEASURE IS NO LONGER NEEDED.

EROSION CONTROL FEATURES AS SHOWN ON THE PLANS ARE SUGGESTED LOCATIONS. EXACT LOCATIONS WILL BE DETERMINED BY THE ENGINEER IN THE FIFT D.

DISTURBED AREAS WITHIN THE RIGHT-OF-WAY, EXCEPT THE DRIVING LANES AND THE SHOULDERS ARE TO BE FERTILIZED, SEEDED, TEMPORARY SEEDED, AND MULCHED AS DIRECTED BY THE ENGINEER.

RESTORATION OF EXPOSED SLOPES AND DITCHES SHALL TAKE PLACE WITHIN 7 CALENDAR DAYS AFTER FINISHED GRADING IS COMPLETE.

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

WETLANDS ARE PRESENT AT THE LOCATIONS SHOWN IN THE PLANS. DO NOT OPERATE MACHINERY OUTSIDE OF THE SLOPE INTERCEPTS IN THESE LOCATIONS.

REMOVAL OF ASPHALTIC SURFACES WHERE AN ABUTTING ASPHALTIC SURFACE IS TO REMAIN IN PLACE SHALL REQUIRE A SAWCUT MEETING THE APPROVAL OF THE ENGINEER IN THE FIELD.

EXACT LOCATION AND WIDTH OF ALL DRIVEWAY ENTRANCES TO BE DETERMINED BY THE ENGINEER. DRIVEWAYS SHALL BE REPLACED IN KIND.

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

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 IS RESPONSIBLE FOR FIELD LOCATING ALL UTILITIES.

ASPHALTIC SURFACE LAYERS:

- UPPER: 1¾
- LOWER: 21/4"

RUNOFF COEFFICIENT TABLE

	HYDROLOGIC SOIL GROUP											
	Α			В		С		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 .28	.26 .33	.20 .26	.23 .30	.30 .37	.20 .27	.25 .32	.30 .40
SIDE SLOPE- TURF					.27 .34			.28 .36			.30 .38	
PAVEMENT:												
ASPHALT	.70 – .95											
CONCRETE	.80 – .95											
BRICK	CK .70 – .80											
DRIVES, WALKS	•											
ROOFS .75 – .95												
GRAVEL ROADS, SH	IOULDE	RS				.40 – .	60					

TOTAL PROJECT AREA = 0.30 ACRES

TOTAL AREA EXPECTED TO BE DISTURBED BY CONSTRUCTION ACTIVITIES = 0.24 ACRES

CONSULTANT LIAISON

WESTBROOK ASSOCIATED ENGINEERS, INC. 619 EAST HOXIE STREET SPRING GREEN, WI 53588

ATTN: AARON PALMER, P.E. PH: (608) 588-7866 FAX: (608) 588-7954 apalmer@westbrookeng.com

COUNTY LIAISON
VERNON COUNTY HIGHWAY DEPARTMENT
602 NORTH MAIN STREET

P.O. BOX 232 VIROQUA, WI 54665

ATTN: PHIL HEWTT PH: (608) 637-5452 phil.hewitt@vernoncounty.org WisDNR LIAISON

DNR SERVICE CENTER 3550 MORMON COULEE ROAD LA CROSSE, WI 54601

ATTN: KAREN KALVELAGE PH: (608) 785-9115 karen.kalvelage@wisconsin.gov

UTILITIES

ELECTRIC
VERNON ELECTRIC COOP
ATTN: COLE CARY
110 SAUGSTAD RD.
WESTBY, W 54667
(608)-634-3121
ccgrv@vernonelectric.com

COMMUNICATIONS
CENTURYLINK
ATTN: BRET CLARK
311 SOUTH COURT STREET
SPARTA, WI 54656
(608)-269-0819
bret.clark@centurylink.com

DIGGERS L HOTLINEDial (800)242-8511

* DENOTES UTILITY IS NOT A MEMBER OF DIGGERS HOTLINE

www.DiggersHotline.com

STANDARD ABBREVIATIONS

ABUT.	Abutment	JT
AC	Acre	JC
AGG.	Aggregate	LH
AH	Ahead	L
<	Angle	LIN
ASPH	Asphaltic	LC
AVG.	Average	MH
A.D.T	Average Daily Traffic	ME
BAD	Base Aggregate Dense	ML
3K	Back _	N
3F	Back Face	Y
3.M.	Bench Mark	OE
3R.	Bridge	PL
C/L	Center Line	P1
CC	Center to Center	PC
CTH	County Trunk Highway	PI
CR.	Creek	PF
CY or CU YD	Cubic Yard	PI
CP .	Culvert Pipe	PC
C & G	Curb and Gutter	P\ PC
OHV	Degree of Curve	
OIA	Design Hour Volume	LB PS
JIA -	Diameter East	PE
<u>-</u> X		
	East Grid Coordinate	R
ELEC	Electric	RF
EL OR ELEV	Elevation	RL
ESALS	Equivalent Single Ac=xle Loads	RF
EBS	Excavation Below Subgrade	RC
F 	Face to Face	RE
E E	Field Entrance	RE
- -G	Fill	RV
	Finished Grade	R1
FL or F/L	Flow Line	RH
-T	Foot	R/
FTG	Footing	R
GN	Grid North	RE
HT CWT	Height	RE SA
	Hundredweight	S#
HYD NL	Hydrant	54
INL	inlet	

Junction Left-Hand Forward Length of Curve Linear Foot IN FT OR LF Long Chord of Curve Manhole Mailbox IL OR M/L Match Line North Grid Coordinate Outside Diameter Permanent Limited Easement Point of Curvature Point of Intersection PRC Point of Reverse Curvature Point of Tangency POC PVC PCC Point on Curve Polyvinyl Chloride Portland Cement Concrete Pound Pounds Per Square Inch Private Entrance Radius Railroad OR R/L Reference Line Reference Point RCCP REQD RES Reinforced Concrete Culvert Pipe Required Residence or Residential Retaining Wall Riaht Right-Hand Forward Right-of-Way Road NOWY Roadway ALV Salvaged

Section SHLDR Shoulder SHR SHRINKAGE SW Sidewalk SQ SF OR SQ FT Square Sauare Feet SY or SQ YD Square Yard STD Standard SDD Standard Detail Drawings State Trunk Highway STA Station Storm Sewer SS Subgrade Superelevation SL or S/L Survey Line Septic Vent Tangent TEL Telephone TEMP Temporary Temporary Interest TRANS Transition TL OR T/L Transit Line Trucks (percent of) TYP Unclassified UNCL Underground Cable UG United States Highway VAR Variable Velocity or Design Speed VERT Vertical VC Vertical Curve VOL Volume Water Main W\/ Water Valve West Westbound

PROJECT NO:5539-00-70

HWY: CTH WW

COUNTY: VERNON

GENERAL NOTES

Inside Diameter

Iron Rod Set

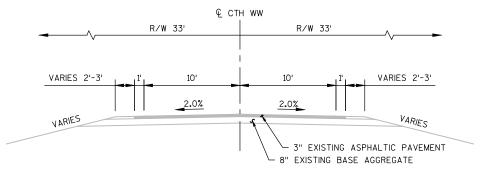
Invert Iron Pipe or Pin

PLOT BY: NICHOLAS J. BREY PLOT NAME:

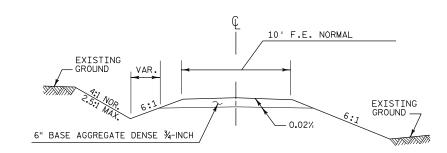
SHEET

ID

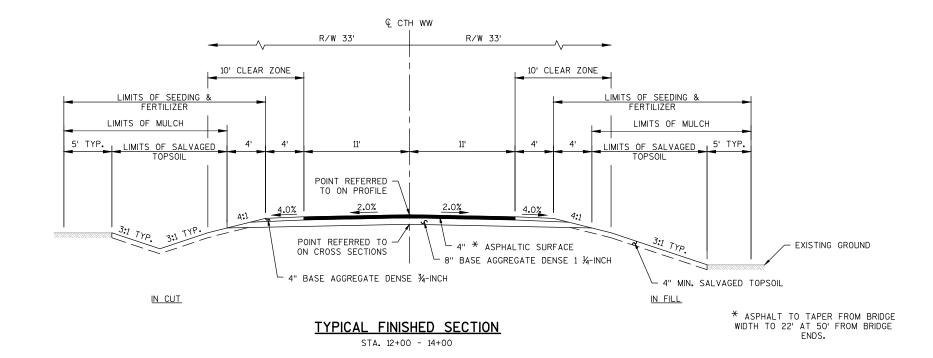
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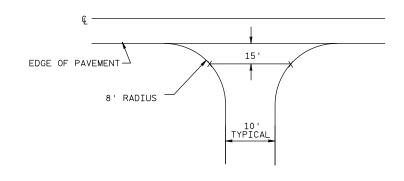


TYPICAL EXISTING SECTION



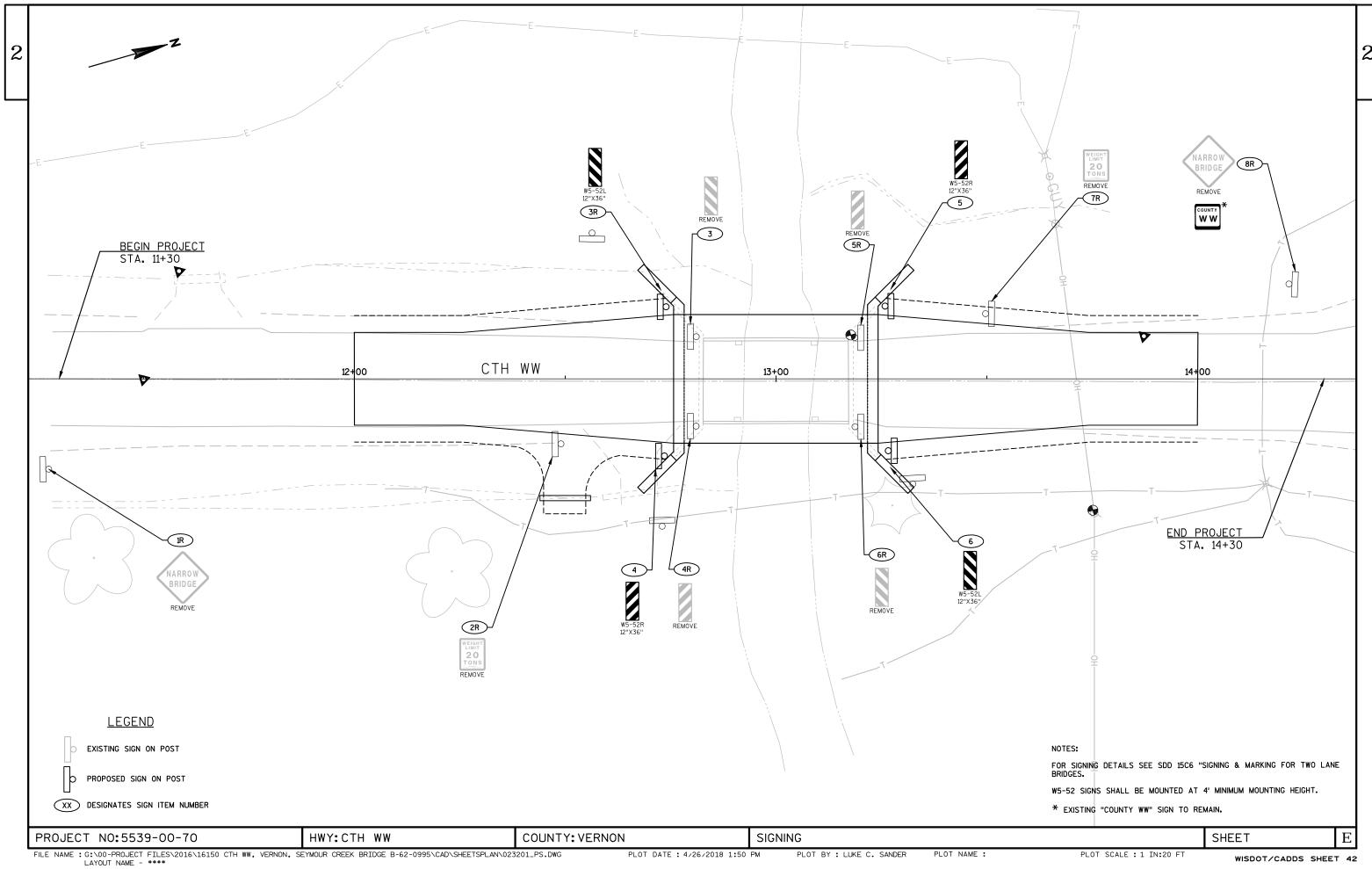
FIELD ENTRANCE - TYPICAL CROSS SECTION

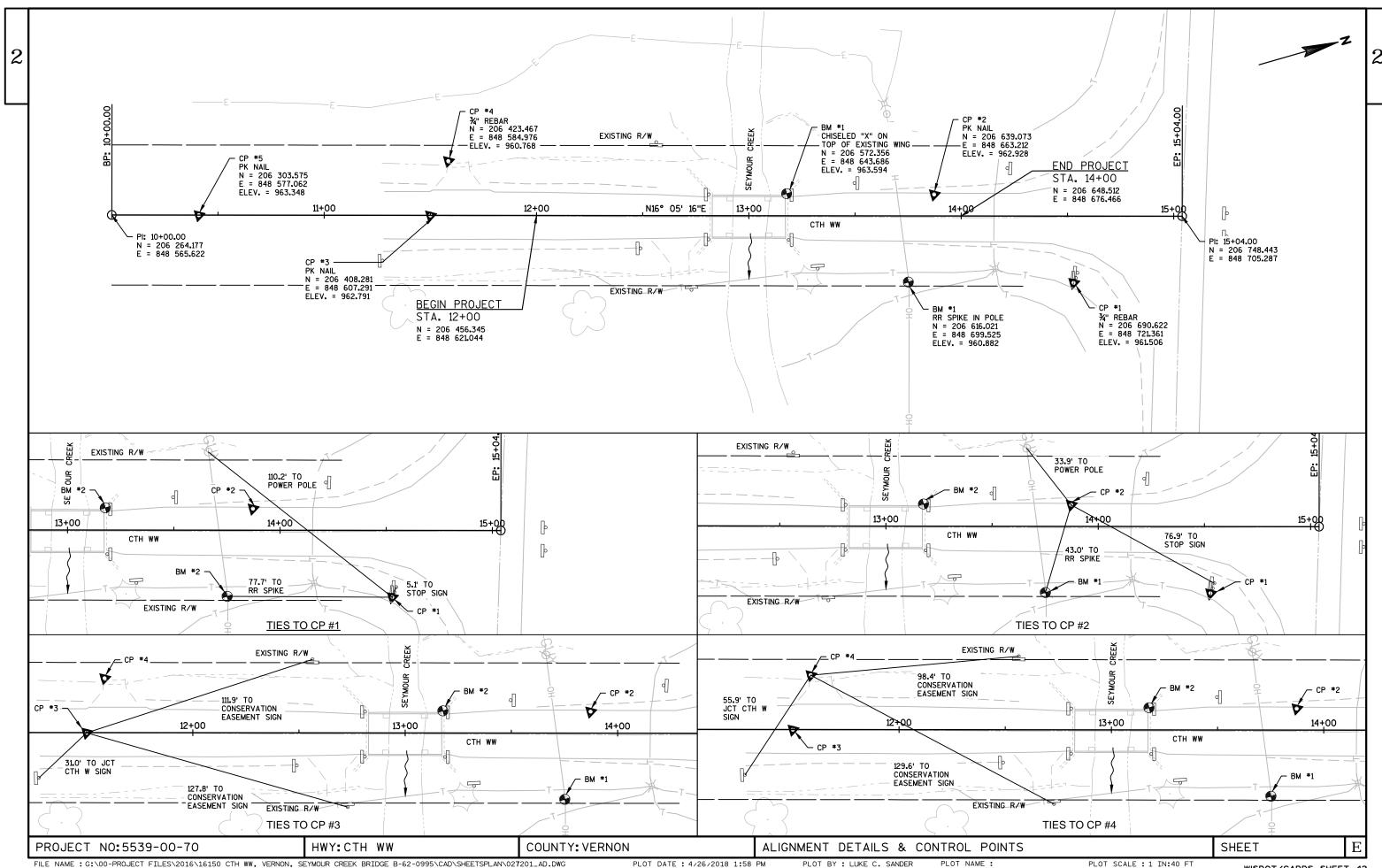




TYPICAL FIELD ENTRANCE DETAIL

PROJECT NO:5539-00-70 COUNTY: VERNON SHEET HWY: CTH WW TYPICAL SECTIONS PLOT NAME :





					5539-00-70
Line	Item	Item Description	Unit	Total	Qty
0002	203.0100	Removing Small Pipe Culverts	EACH	1.000	1.000
0004		Removing Old Structure Over Waterway With Minimal Debris (station) 01. 13+00	LS	1.000	1.000
0006	205.0100	Excavation Common **P**	CY	200.000	200.000
8000	206.1000	Excavation for Structures Bridges (structure) 01. B-62-0257	LS	1.000	1.000
0010	210.1500	Backfill Structure Type A	TON	300.000	300.000
0012	213.0100	Finishing Roadway (project) 01. 5539-00-70	EACH	1.000	1.000
0014	305.0110	Base Aggregate Dense 3/4-Inch	TON	43.000	43.000
0016	305.0120	Base Aggregate Dense 1 1/4-Inch	TON	270.000	270.000
0018	455.0605	Tack Coat	GAL	22.000	22.000
0020	465.0105	Asphaltic Surface	TON	95.000	95.000
0022	502.0100	Concrete Masonry Bridges	CY	180.000	180.000
0024	502.3200	Protective Surface Treatment	SY	220.000	220.000
0024	505.0400	Bar Steel Reinforcement HS Structures	LB	4,400.000	4,400.000
0028	505.0600	Bar Steel Reinforcement HS Coated Structures	LB	25,920.000	25,920.000
0030	513.4061	Railing Tubular Type M 01. B-62-0257	LF	102.000	102.000
0030	516.0500	Rubberized Membrane Waterproofing	SY	14.000	14.000
0032	521.1015	Apron Endwalls for Culvert Pipe Steel 15-Inch	EACH	2.000	2.000
		·			
0036	521.3115	Culvert Pipe Corrugated Steel 15-Inch	LF	12.000	12.000
0038	550.1100	Piling Steel HP 10-Inch X 42 Lb	LF OY	455.000	455.000
0040	606.0300	Riprap Heavy	CY	159.000	159.000
0042	612.0406	Pipe Underdrain Wrapped 6-Inch	LF	150.000	150.000
0044	618.0100	Maintenance And Repair of Haul Roads (project) 01. 5539-00-70	EACH	1.000	1.000
0046	619.1000	Mobilization	EACH	1.000	1.000
0048	624.0100	Water	MGAL	15.000	15.000
0050	625.0500	Salvaged Topsoil	SY	240.000	240.000
0052	627.0200	Mulching	SY	390.000	390.000
0054	628.1504	Silt Fence	LF	240.000	240.000
0056	628.1520	Silt Fence Maintenance	LF	240.000	240.000
0058	628.1905	Mobilizations Erosion Control	EACH	2.000	2.000
0060	628.1910	Mobilizations Emergency Erosion Control	EACH	2.000	2.000
0062	628.6005	Turbidity Barriers	SY	135.000	135.000
0064	629.0210	Fertilizer Type B	CWT	0.450	0.450
0066	630.0120	Seeding Mixture No. 20	LB	16.000	16.000
0068	630.0120	Seeding Temporary	LB	16.000	16.000
		• •			
0070	634.0612	Posts Wood 4x6-Inch X 12-FT	EACH	4.000	4.000
0072	637.2230	Signs Type II Reflective F	SF	12.000	12.000
0074	638.2602	Removing Signs Type II	EACH	4.000	4.000

Estimate Of Quantities

Page	2
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					5539-00-70
Line	Item	Item Description	Unit	Total	Qty
0076	638.3000	Removing Small Sign Supports	EACH	4.000	4.000
0078	642.5001	Field Office Type B	EACH	1.000	1.000
0800	643.0420	Traffic Control Barricades Type III	DAY	1,278.000	1,278.000
0082	643.0705	Traffic Control Warning Lights Type A	DAY	1,988.000	1,988.000
0084	643.0900	Traffic Control Signs	DAY	994.000	994.000
0086	643.5000	Traffic Control	EACH	1.000	1.000
8800	645.0111	Geotextile Type DF Schedule A	SY	92.000	92.000
0090	645.0120	Geotextile Type HR	SY	284.000	284.000
0092	646.1020	Marking Line Epoxy 4-Inch	LF	800.000	800.000
0094	650.4500	Construction Staking Subgrade	LF	152.000	152.000
0096	650.5000	Construction Staking Base	LF	152.000	152.000
0098	650.6500	Construction Staking Structure Layout (structure) 01. B-62-0257	LS	1.000	1.000
0100	650.9910	Construction Staking Supplemental Control (project) 01. 5539-00-70	LS	1.000	1.000
0102	650.9920	Construction Staking Slope Stakes	LF	152.000	152.000
0104	690.0150	Sawing Asphalt	LF	44.000	44.000
0106	715.0502	Incentive Strength Concrete Structures	DOL	1,080.000	1,080.000

REMOVING SMALL PIPE CULVERTS

203.0100 STATION LOCATION REMARKS (EACH) 12+50 RT 15" CMCP TOTAL

EARTHWORK SUMMARY

		P			
		205.0100		EXPANDED	MASS
		EXCAVATION	UNEXPANDED	FILL (2)	ORDINATE
		COMMON (1)	FILL	(25%)	+/- (3)
STATION - STATION	LOCATION	(CY)	(CY)	(CY)	(CY)
12+00.00 - 12+75.75	MAINLINE	103	67	87	16
13+24.25 - 14+00.00	MAINLINE	97	0	0	97
	TOTALS	200	67	87	113

1) EBS IS NOT INCLUDED IN DIVISIONS

2) EXPANDED FILL FACTOR = 1.30; EXPANDED FILL = UNEXPANDED FILL * 1.30

P - PAY PLAN QUANTITY

BASE AGGREGATE DENSE

STATION - STATION	LOCATION	305.0120 1 1/4-INCH BASE (TON)	305.0110 3/4-INCH SHLD (TON)	624.0100 WATER* (MGAL)
12+00.00 - 12+75.75	MAINLINE	135	21	3
13+24.25 - 14+00.00	MAINLINE	135	19	3
12+50	FE, RT	_	3	
	TOTALS	270	43	6

*ADDITIONAL QUANTITY INCLUDED WITH EROSION CONTROL ITEMS

ASPHALTIC ITEMS

		465.0105	455.0600
		ASPHALTIC	TACK
		SURFACE	COAT
STATION - STATION	LOCATION	(TON)	(GAL)
12+00.00 - 12+75.75	MAINLINE	48	11
13+24.25 - 14+00.00	MAINLINE	47	11
	TOTALS	95	22

PIPE CULVERTS

		521.1015	521.3115
		APRON ENDWALLS FOR	CULVERT PIPE
		CULVERT PIPE STEEL	CORRUGATED STEEL
		15-INCH	15-INCH
STATION	LOCATION	(EACH)	(LF)
12+50	RT	2	12
	TOTAL	2	12

MAINTENANCE AND **REPAIR OF HAUL ROADS**

	618.0100** ID 5539-00-70
LOCATION	(EACH)
PROJECT	1
TOTAL	1

**CATEGORY 0030 ITEM

FINISHING ITEMS

		625.0500	627.0200	629.0210	630.0200	630.0120 SEEDING,	624.0100
		SALVAGED		FERTILIZER	SEEDING	MIXTURE	
		TOPSOIL	MULCHING	TYPE B	TEMPORARY	NO. 20	WATER*
STATION - STATION	LOCATION	(SY)	(SY)	(CWT)	(LB)	(LB)	(MGAL)
12+00.00 - 12+75.75	MAINLINE	115	180	0.20	7	7	4
13+24.25 - 14+00.00	MAINLINE	100	175	0.20	6	6	4
	UNDISTRIBUTED	25	35	0.05	3	3	1
	TOTALS	240	390	0.45	16	16	9

*ADDITIONAL QUANTITY INCLUDED WITH BASE AGGREGATE ITEMS

MOBILIZATIONS EROSION CONTROL

		629.1905
	628.1905	MOBILIZATIONS
	MOBILIZATIONS	EMERGENCY
	EROSION CONTROL	EROSION CONTROL
LOCATION	(EACH)	(EACH)
ID 5539-00-70	2	2
TOTALS	2	2

SILT FENCE

		628.1504	628.1520
		SILT	SILTFENCE
		FENCE	MAINTENANCE
STATION - STATION	LOCATION	(LF)	(LF)
13+24.25 - 14+00.00	RT	95	95
13+24.25 - 14+00.00	LT	95	95
	UNDISTRIBUTED	50	50
	TOTALS	240	240

TURBIDITY BARRIERS

	628.6005
LOCATION	(SY)
SOUTH ABUT	65
NORTH ABUT	70
TOTALS	135

PERMANENT SIGNING

					034.0012	037.2230	
					POSTS WOOD	SIGNS TYPE II	
		SIGN	SIGN		4X6-INCH X 12 FT	FEFLECTIVE F	
STATION	LOCATION	NUMBER	CODE	SIZE	(EACH)	(SF)	SIGN MESSAGE
12+75	LT	3	W5-52L	12 "X 36"	1	3	TIGER STRIPE MARKER
12+75	RT	4	W5-52R	12 "X 36"	1	3	TIGER STRIPE MARKER
13+25	LT	5	W5-52L	12 "X 36"	1	3	TIGER STRIPE MARKER
13+25	RT	6	W5-52R	12 "X 36"	1	3	TIGER STRIPE MARKER
			•	TOTAL	4	12	

REMOVING SIGNS & SUPPORTS

STATION	SIGN NUMBER	SIGN CODE	638.2602 REMOVING SIGNS TYPE II (EACH)	638.3000 REMOVING SMALL SIGN SUPPORTS (EACH)	COMMENTS
11+30, RT	1R	W5-2	_	-	TO BE REMOVED BY COUNTY
12+49, RT	2R	R12-1	_		TO BE REMOVED BY COUNTY
12+81, LT	3R	W5-52L	1	1	EXISTING TIGER STRIPE MARKER
12+81, RT	4R	W5-52R	1	1	EXISTING TIGER STRIPE MARKER
13+19, LT	5R	W5-52L	1	1	EXISTING TIGER STRIPE MARKER
13+19, RT	6R	W5-52R	1	1	EXISTING TIGER STRIPE MARKER
13+50, LT	7R	R12-1	_		TO BE REMOVED BY COUNTY
12+22, LT	8R	W5-2	_		TO BE REMOVED BY COUNTY
		TOTAL	4	4	

TRAFFIC CONTROL ITEMS

			0420 CONTROL	643. TRAFFIC	0705 CONTROL	643.	0900	643.5000
			DES, TYPE	WARNING	G LIGHTS,		CONTROL	TRAFFIC
		,	II	ITE	EA	310	SNS	CONTROL
LOCATION	DURATION	(NO.)	(DAYS)	(NO.)	(DAYS)	(NO.)	(DAYS)	EACH
AS DIRECTED BY ENGINEER	71	18	1278	28	1988	14	994	_
CTH WW					_			1
•		18	1278	28	1988	14	994	1

PLACE TRAFFIC CONTROL IN ACCORDANCE WITH SDD 15C2

MARKING LINE EPOXY 4-INCH

				646.1020	
STATION	=	STATION	LOCATION	(LF)	COMMENTS
12+00	-	14+00	CENTERLINE	400	DBL YELLOW
12+00	-	14+00	PAVEMENT EDGE	400	WHITE
		,	TOTAL	800	

STAKING ITEMS

CATEGORY	LOCATION	650.4500 CONSTRUCTION STAKING SUBGRADE (LF)	650.5000 CONSTRUCTION STAKING BASE (LF)	650.6500 CONSTRUCTION STAKING STRUCTURE LAYOUT (B-62-0257) (LS)	650.9910 CONSTRUCTION STAKING SUPPLEMENTAL CONTROL (5539-00-70) (LS)	650.9920 CONSTRUCTION STAKING SLOPE STAKES (LF)
0010 0020	12+00 - 14+00 B-62-0257	152	152	 1	1	152
0320	TOTALS	152	152	0	1	152

SAWING EXISTING PAVEMENT

			690.0150	
_	STATION	LOCATION	(L.F.)	
	12+00	MAINLINE	22	
	14+00	MAINLINE	22	
		TOTAL	44	

ALL ITEMS CATEGORY 0010 UNLESS NOTED OTHERWISE.

PROJECT NO:5539-00-70 HWY: CTH WW

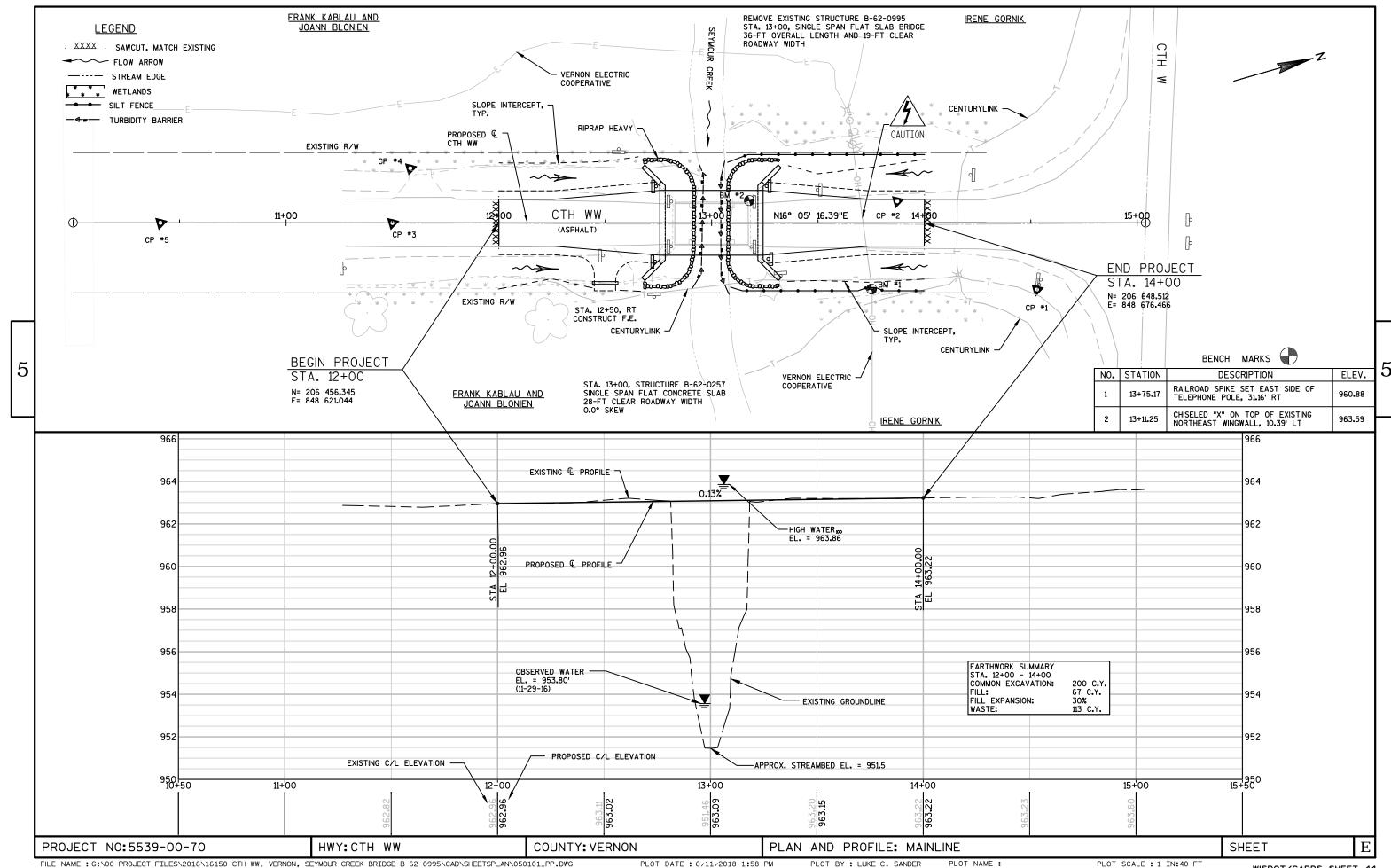
COUNTY: VERNON

MISCELLANEOUS QUANTITIES

SHEET

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FILE NAME : G:\00-PROJECT FILES\2016\16150 CTH WW, VERNON, SEYMOUR CREEK BRIDGE B-62-0995\CAD\SHEETSPLAN\030201_MQ.DWG LAYOUT NAME - #### PLOT SCALE : ******** PLOT DATE : 10/16/2018 11:57 AM PLOT BY: NICHOLAS J. BREY PLOT NAME: WISDOT/CADDS SHEET 42



Standard Detail Drawing List

08E09-06	SILT FENCE
08E11-02	TURBI DI TY BARRI ER
08F01-11	APRON ENDWALLS FOR CULVERT PIPE
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
15C08-18A	LONGITUDINAL MARKING (MAINLINE)

6

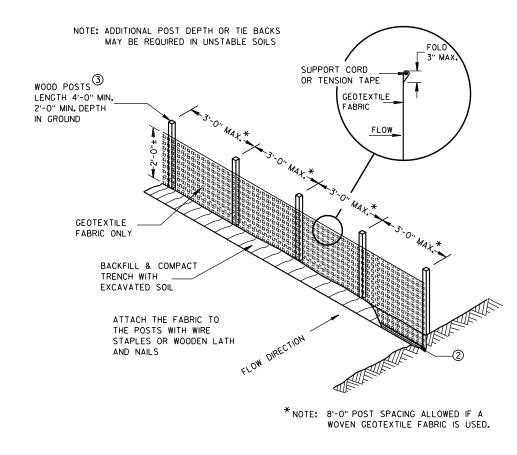
TYPICAL APPLICATION OF SILT FENCE

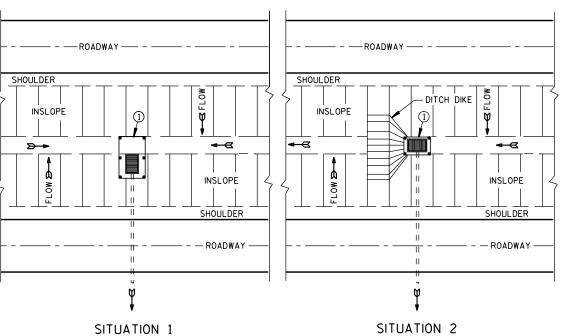
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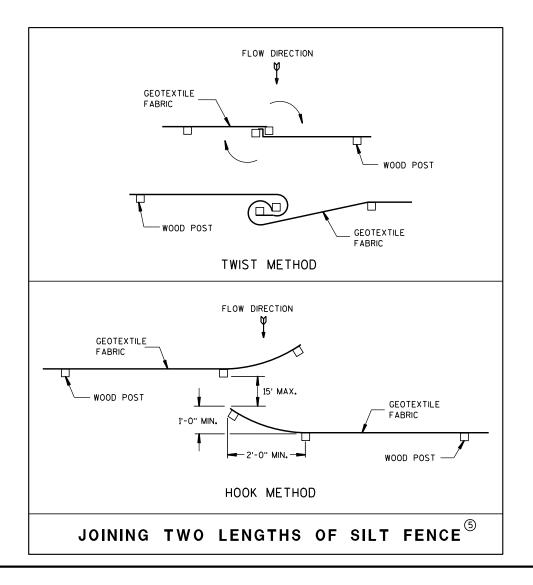
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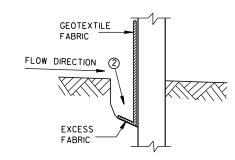
PLAN VIEW SILT FENCE AT MEDIAN SURFACE DRAINS



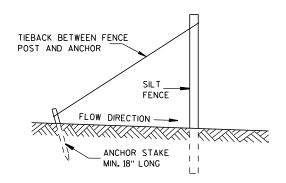
GENERAL NOTES

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.

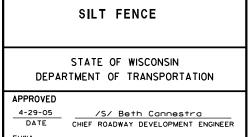


TRENCH DETAIL



SILT FENCE TIE BACK

(WHEN REQUIRED BY THE ENGINEER)



SILT FENCE

S.D.D. 8 E 9-6

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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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			1	METAL	APR	ON EN	NDWAL	.LS			
PIPE	MIN. 1	THICK.			DIMENS	SIONS (I	nches)			APPROX.	
DIA.	(Incl		A	В	Н	L	Γį	L ₂	W	SLOPE	BODY
(IN.)	STEEL	ALUM.	(±1")	(MAX.)	(±1")	(±1 ½")	①	0	(±2")	320.2	
12	.064	.060	6	6	6	21	12	171/2	24	2½+o 1	1Pc.
15	.064	.060	7	8	6	26	14	213/4	30	2½to 1	1Pc.
18	.064	.060	8	10	6	31	15	281/4	36	21/2+o 1	1Pc.
21	.064	.060	9	12	6	36	18	295/8	42	21/2+o 1	1Pc.
24	.064	.075	10	13	6	41	18	371/4	48	21/2+o 1	1Pc.
30	.079	.075	12	16	8	51	18	521/4	60	21/2+0 1	1Pc.
36	.079	. 105	14	19	9	60	24	59¾	72	21/2+o 1	2 Pc.
42	.109	.105	16	22	11	69	24	75%	84	21/2 to 1	2 Pc.
48	.109	.105	18	27	12	78	24	81	90	2 ¹ / ₄ +o 1	3 Pc.
54	.109	.105	18	30	12	84	30	851/2	102	2 ¹ / ₄ †o 1	3 Pc.
60	.109×	.105×	18	33	12	87	_	_	114	2 to 1	3 Pc.
66	.109×	.105×	18	36	12	87	_	_	120	2 to 1	3 Pc.
72	.109×	.105×	18	39	12	87	_	_	126	2 to 1	3 Pc.
78	.109×	.105×	18	42	12	87	_	_	132	11/2+0 1	3 Pc.
84	.109×	.105×	18	45	12	87	_	_	138	11/2 to 1	3 Pc.
90	.109×	.105×	18	37	12	87	_	_	144	11/2+0 1	3 Pc.
96	.109×	.105×	18	35	12	87	_	_	150	1/2+0 1	3 Pc.

	RE	INFORC	ED C	ONCRET	E APRO	N E	NDWAL	.LS
PIPE			DIM	ENSIONS	(Inches)			APPROX.
DIA.	T	A	В	С	D	Ε	G	SLOPE
12	2	4	24	48 1/8	721/8	24	2	3 to 1
15	21/4	6	27	46	73	30	21/4	3 to 1
18	21/2	9	27	46	73	36	21/2	3 to 1
21	23/4	9	36	371/2	731/2	42	23/4	3 to 1
24	3	91/2	431/2	30	731/2	48	3	3 to 1
27	31/4	101/2	491/2	24	731/2	54	31/4	3 to 1
30	$3\frac{1}{2}$	12	54	193/4	731/2	60	31/2	3 to 1
36	4	15	63	34¾	97¾	72	4	3 to 1
42	$4\frac{1}{2}$	21	63	35	98	78	41/2	3 to 1
48	5	24	72	26	98	84	5	3 to 1
54	51/2		65	**************************************	8 ¹ / ₄ - 100	90	51/2	2% to 1
60	6	* * * 30-35	60	39	99	96	5	2 to 1
66	61/2	* * * 24-30	* * * 72-78	* * * 21-27	99	102	51/2	2 to 1
72	7	* ** 24-36	78	21	99	108	6	2 to 1
78	71/2	* ** 24-36	78	21	99	114	61/2	2 to 1
84	8	36	901/2	21	1111/2	120	61/2	1½+o 1
90	81/2	41	871/2	24	1111/2	132	61/2	11/2+0 1

THREADED %6" DIA. ROD CONNECTOR AROUND CULVERT & THROUGH TANK TYPE CONNECTOR LUG LUG OR ALTERNATE CONNECTOR STRAP (SEE DETAIL) MEASURED LENGTH OF CULVERT TYPE 1 FOR 12" THRU 24" CORR. PIPE







NOTE: DIMPLED BAND FITS OVER OUTSIDE OF ENDWALL. AND CORRUGATED BAND FITS INSIDE ENDWALL.

CORRUGATED PIPE. FOR CIRCUMFERENTIALLY CORRUGATED PIPE USE ENDWALL CONNECTION DETAILS 1, 2, 3 OR 5

DIMPLED BAND MAY BE USED WITH HELICALLY

FOR HELICALLY CORRUGATED PIPE USE ENDWALL CONNECTION DETAILS 1, 2 OR 5.

FOR HELICALLY CORRUGATED PIPES WITH TWO CIRCUMFERENTIAL CORRUGATIONS AT EACH END USE ENDWALL CONNECTION DETAILS 1, 2 OR 3.

1" WIDE, 12 GA. (0.109" THICK) GALVANIZED STRAP WITH STANDARD 6" X 1/2" BAND BOLT AND NUT ALTERNATE FOR TYPE 1 CONNECTION END SECTION CONNECTOR STRAP

* EXCEPT CENTER PANEL SEE GENERAL NOTES





SHOULDER

SLOPE



SIDE ELEVATION METAL ENDWALLS



**MAXIMUM





CONCRETE ENDWALLS

CONNECTION DETAILS



SECTION A-A

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.

CONCRETE CULVERT ENDWALLS MAY NOT BE USED WITH GALVANIZED STEEL OR ALUMINUM CULVERT PIPE OR VISE VERSA, GALVANIZED STEEL OR ALUMINUM ENDWALLS SHALL NORMALLY BE INSTALLED ON CULVERT PIPE OF THE SAME METAL.

ALL THREE PIECE STEEL APRON ENDWALLS FOR 60" DIAMETER PIPE AND LARGER SHALL HAVE 0.109" SIDES AND 0.138" CENTER PANELS. ALL THREE PIECE ALUMINUM APRON ENDWALLS FOR 60" DIAMETER PIPE AND LARGER SHALL HAVE 0.105" SIDES AND 0.134" CENTER PANELS. THE WIDTH OF CENTER PANELS SHALL BE GREATER THAN 20 PERCENT OF THE PIPE

LAP SEAMS SHALL BE TIGHTLY JOINED BY GALVANIZED RIVETS OR BOLTS FOR STEEL UNITS AND ALUMINUM RIVETS AND BOLTS FOR ALUMINUM UNITS. FOR THE 60" THROUGH 96" DIAMETER APRON ENDWALL SIZES. THE REINFORCED EDGES AND CENTER PANEL SEAMS SHALL BE FURTHER REINFORCED WITH GALVANIZED STEEL OR ALUMINUM STIFFENER ANGLES. THE ANGLES SHALL BE ATTACHED BY GALVANIZED NUTS AND BOLTS FOR STEEL UNITS AND ALUMINUM NUTS AND BOLTS FOR ALUMINUM UNITS.

WHERE TWO OR MORE PIPES WITH APRON ENDWALLS ARE LAID ADJACENT TO EACH OTHER, THEY SHALL BE SEPARATED BY A DISTANCE SUFFICIENT TO PROVIDE A MINIMUM CLEARANCE OF 6 INCHES BETWEEN APRON ENDWALLS.

(1) FOR PIPE SIZES UP TO 60" DIAMETER, A 180° ROLLED EDGE MAY BE USED INSTEAD OF STEEL ROD REINFORCEMENT. SEE SECTION A-A.



11/30/94 /S/ Rory L. Rhinesmith CHIEF ROADWAY DEVELOPMENT ENGINEER





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

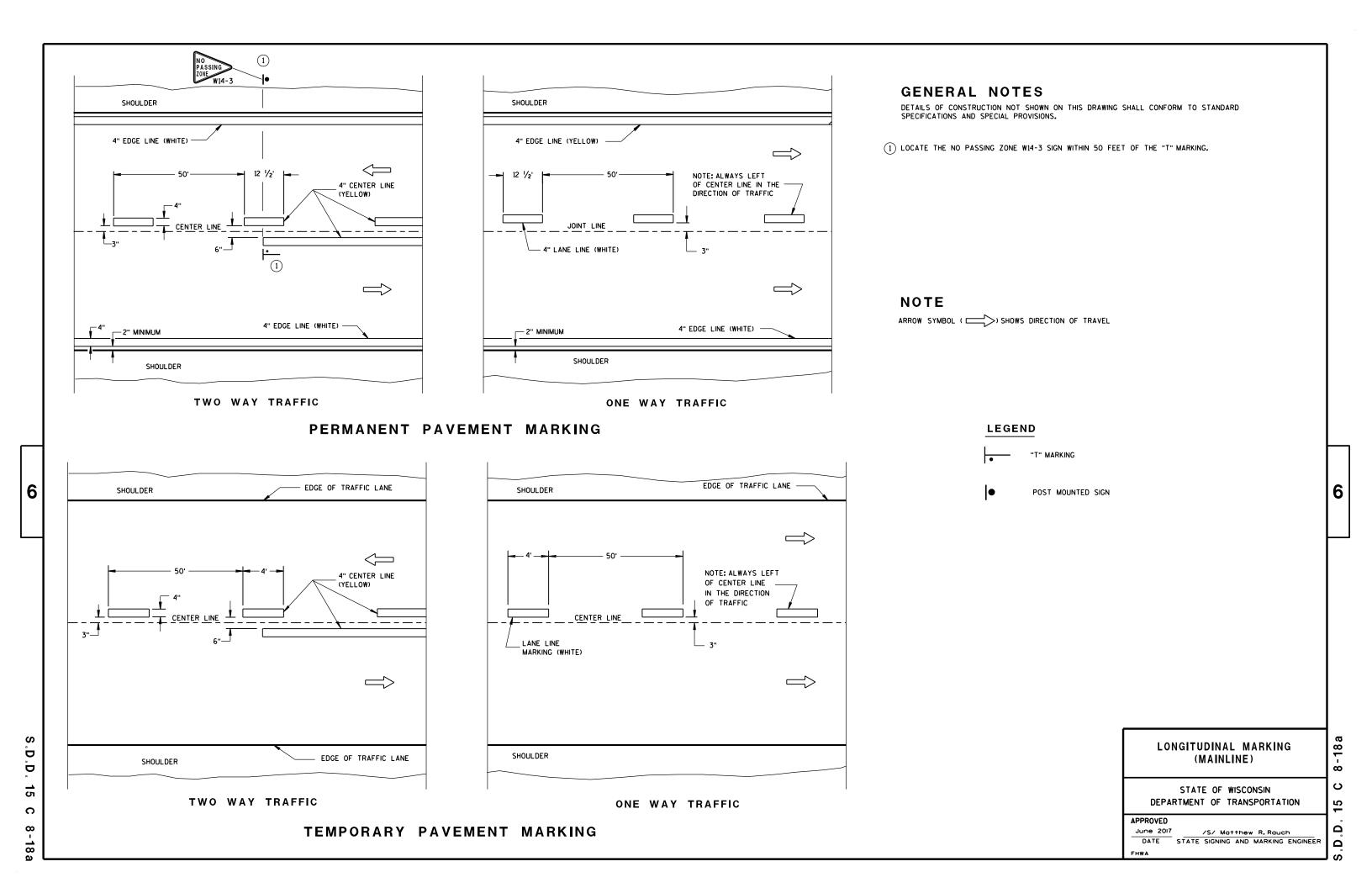
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STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION

/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) A POLICE AND A POL 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



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

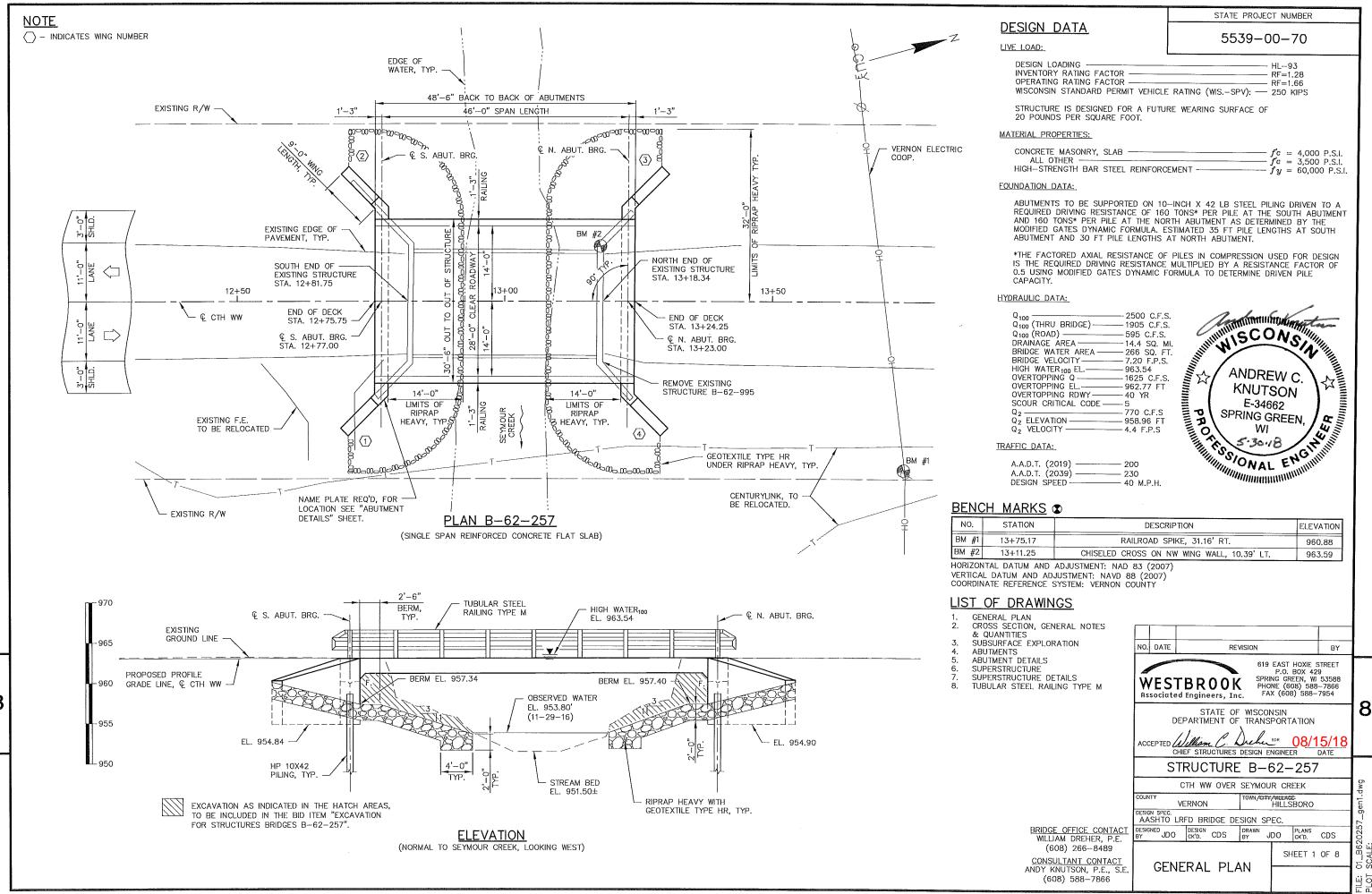
PINT RY * \$\$ nintuser \$\$

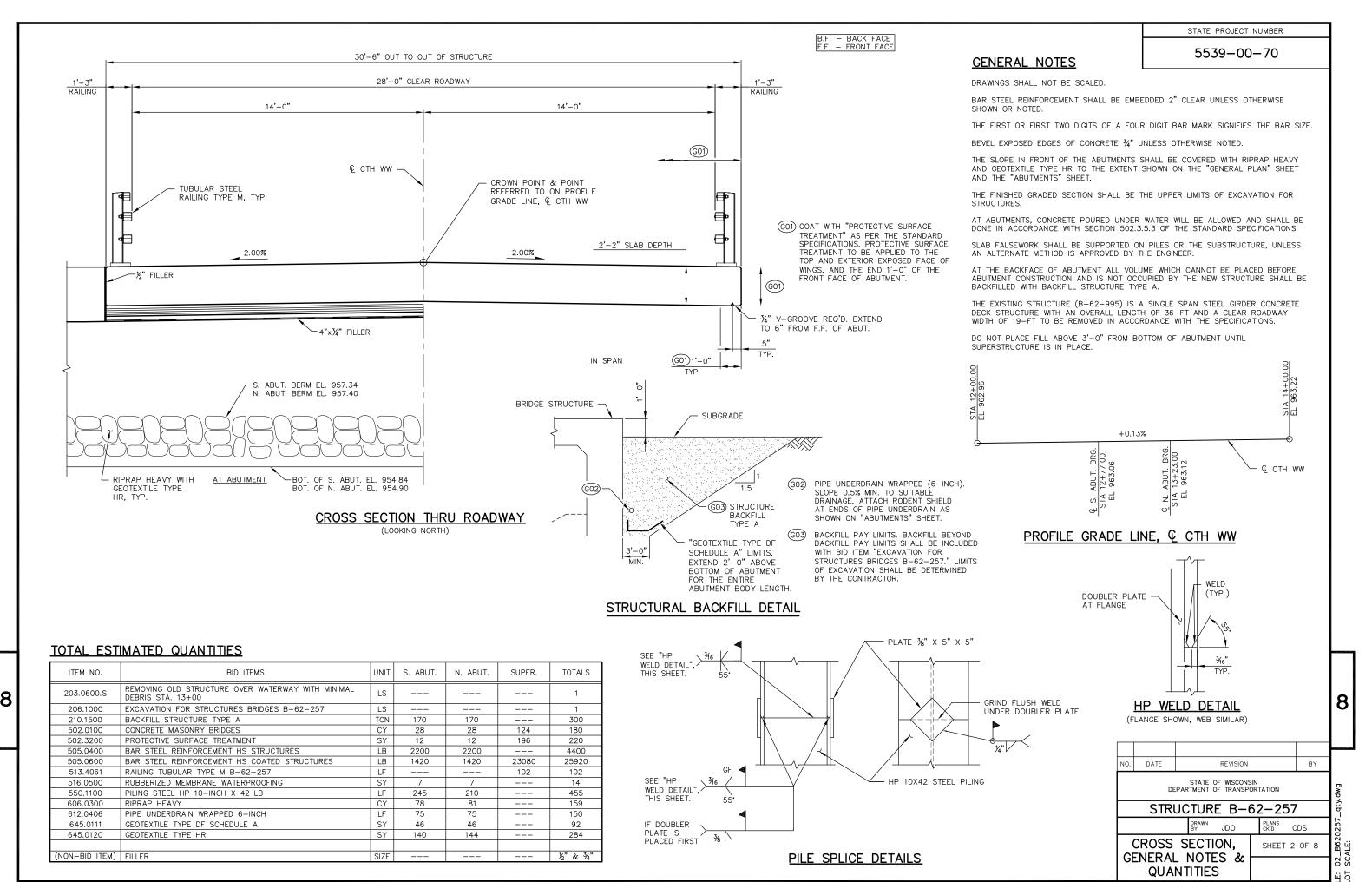
SHEET NO:

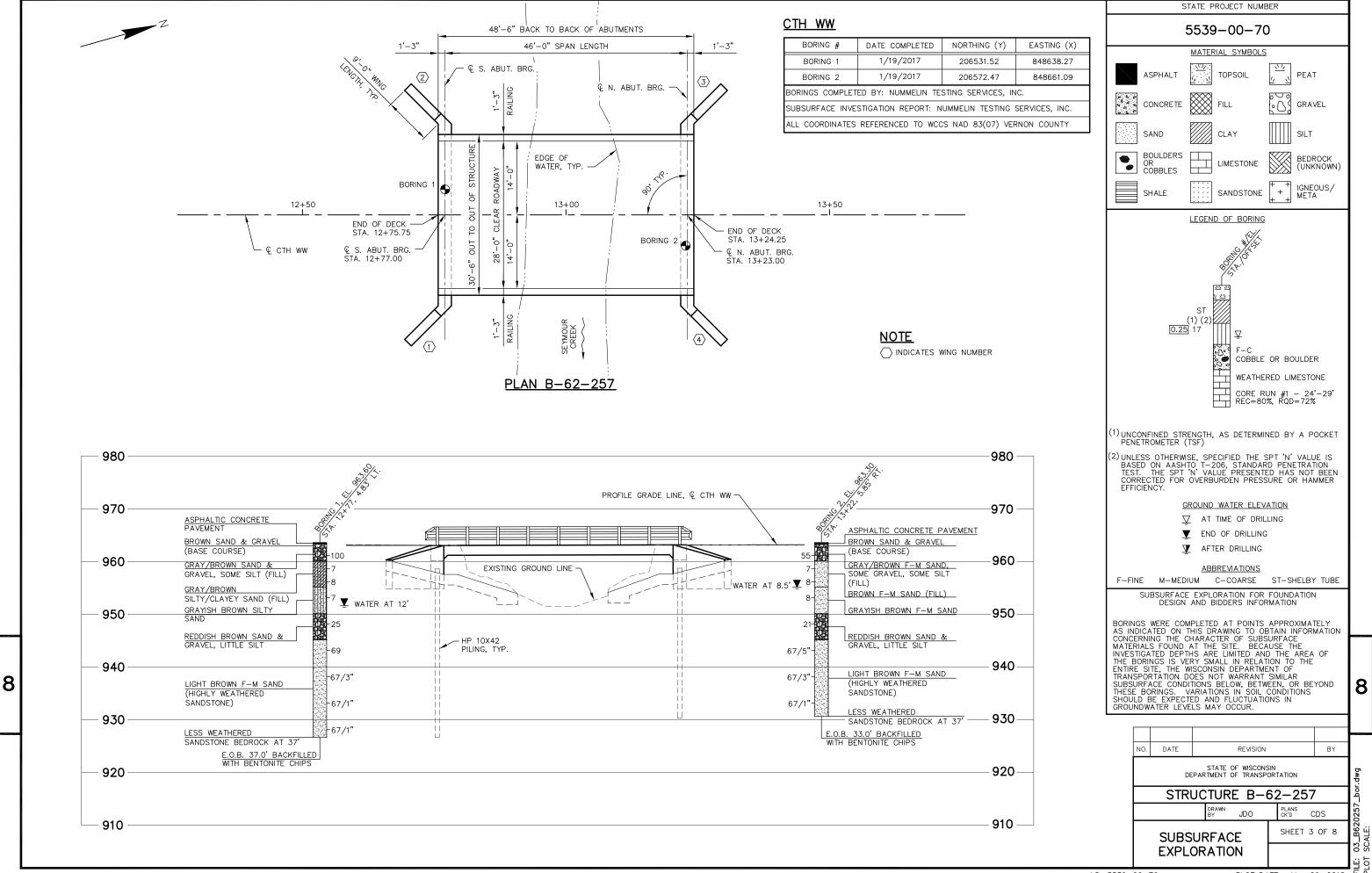
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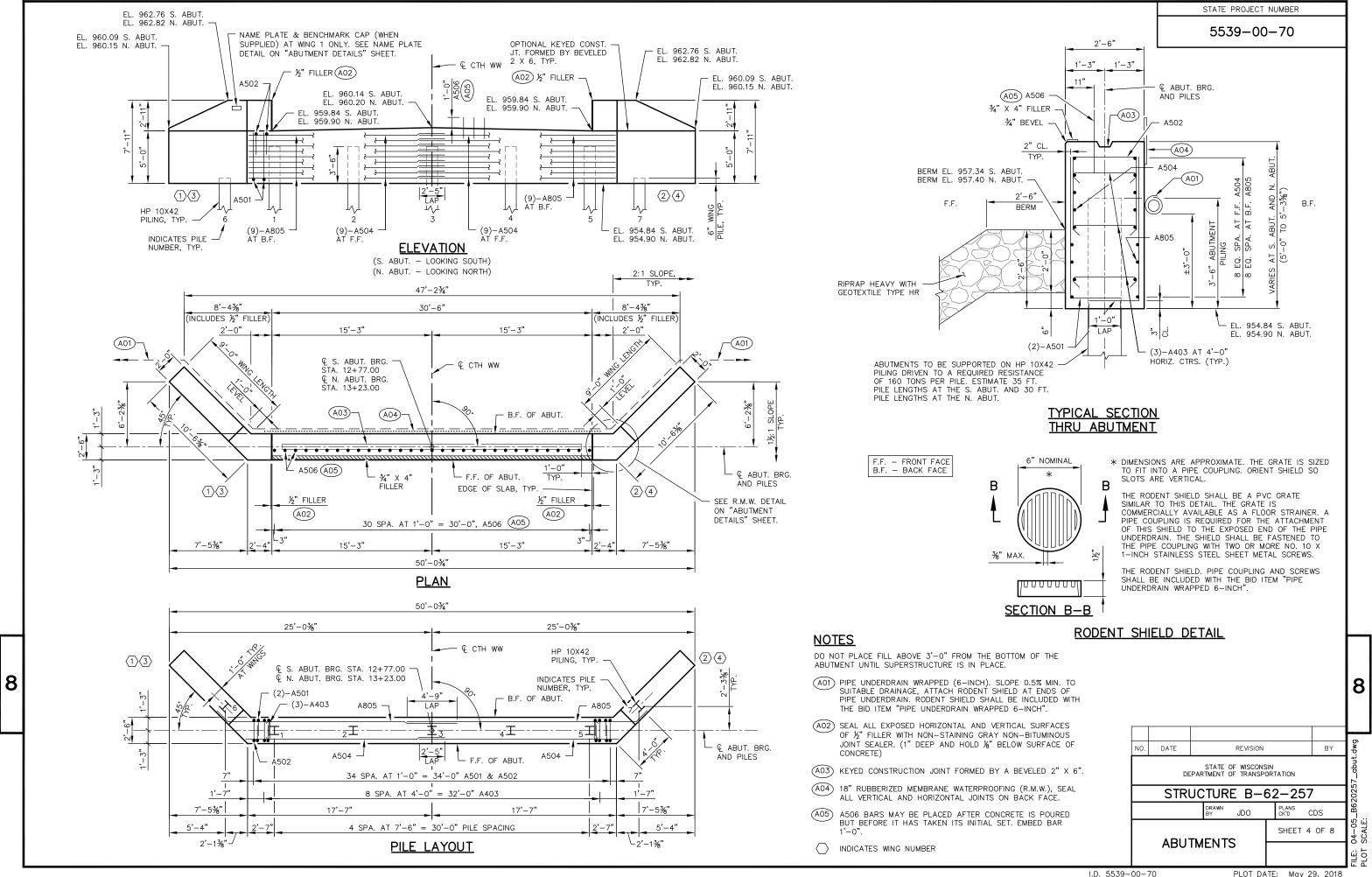


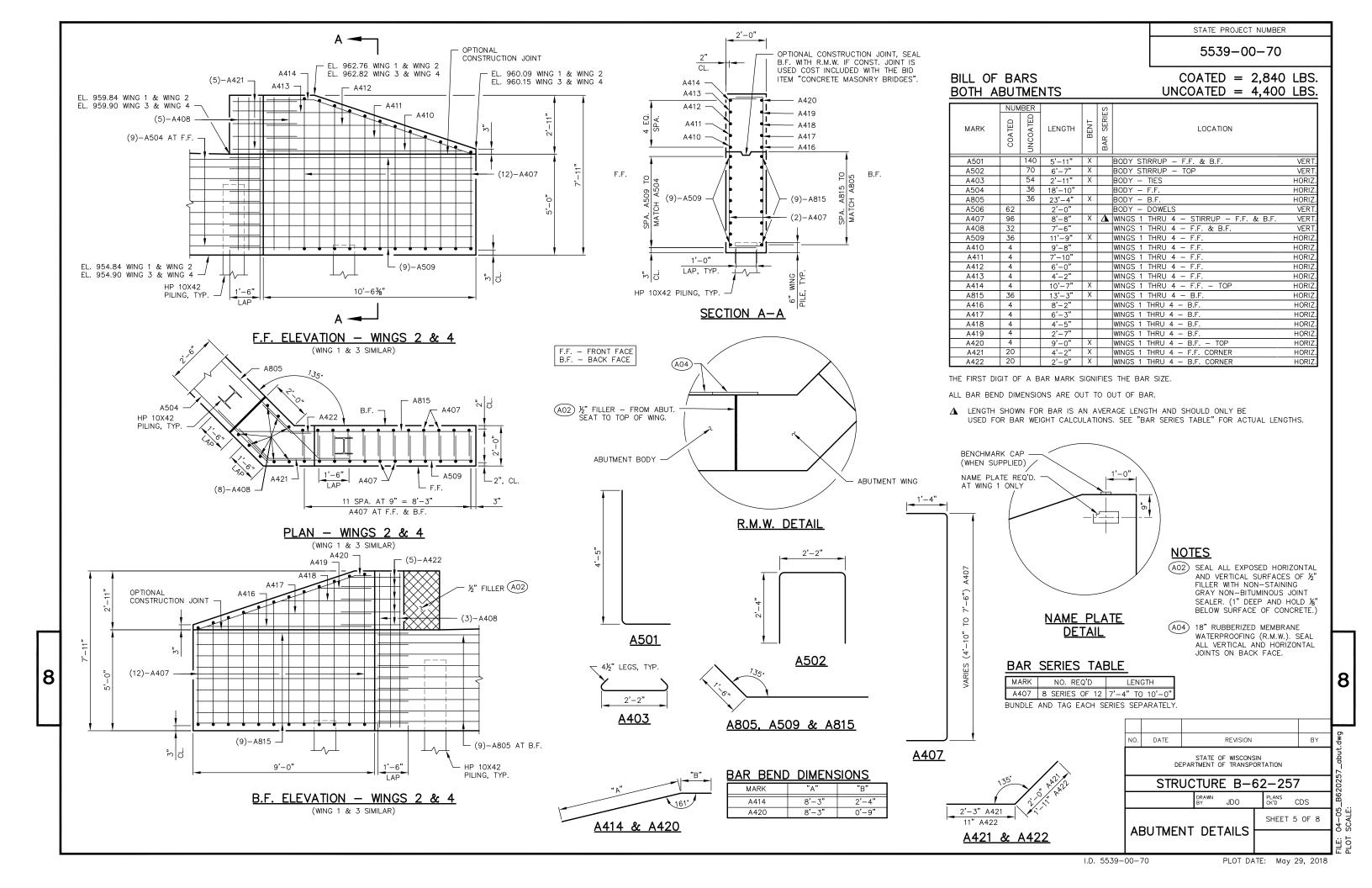




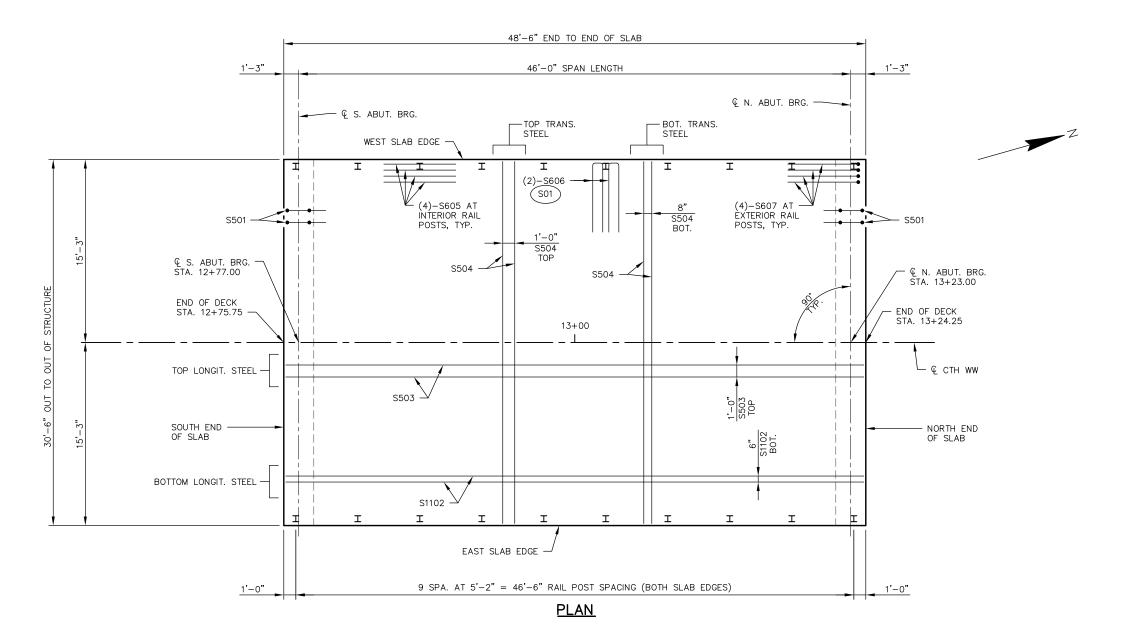












NOTES

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

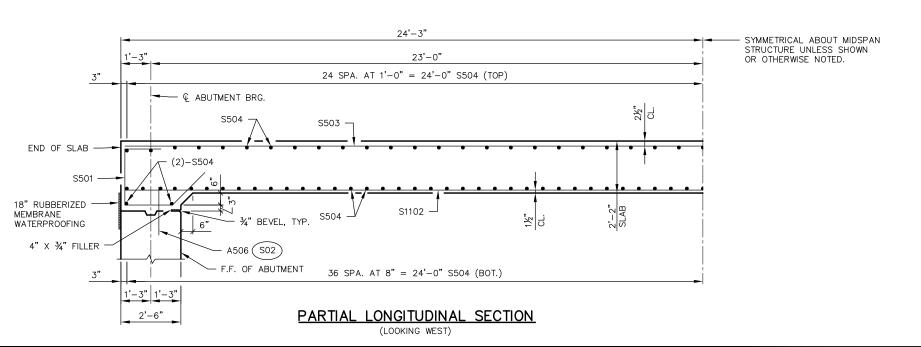
BOTTOM LONGITUDINAL BARS SHALL BE SUPPORTED BY CONTINUOUS BAR CHAIRS AT APPROXIMATELY $4^\prime\!-\!0^\prime\!^{\prime\prime}$ CENTERS.

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

RAILING TO BE PLACED ON THE SLAB AFTER FALSEWORK HAS BEEN RELEASED.

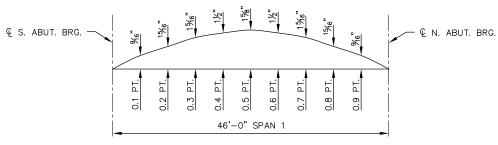
- ADJUST ORIENTATION OF S606 BAR AT END POST TO ENSURE CLEAR COVER AT END OF DECK.
- (S02) SEE "ABUTMENTS" SHEET FOR PLACEMENT OF A506 BARS.

TOP OF DECK ELEVATIONS						
SPAN PT	W. SLAB EDGE	€ CTH WW	E. SLAB EDGE			
€ S. ABUT.	962.76	963.06	962.76			
0.1	962.77	963.07	962.77			
0.2	962.77	963.07	962.77			
0.3	962.78	963.08	962.78			
0.4	962.78	963.08	962.78			
0.5	962.79	963.09	962.79			
0.6	962.79	963.09	962.79			
0.7	962.80	963.10	962.80			
0.8	962.81	963.11	962.81			
0.9	0.9 962.81		962.81			
€ N. ABUT.	962.82	963.12	962.82			



F.F. – FRONT FACE B.F. – BACK FACE

5593-00-70



SLAB CAMBER DIAGRAM

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

TOP OF SLAB ELEVATION AT FINAL GRADE

SLAB THICKNESS CAMBER LESS PLUS

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

SURVEY TOP OF SLAB ELEVATIONS

	€ S. ABUT. BRG.	5/10 PT.	€ N. ABUT. BRG.
WEST SLAB EDGE			
⊈ CTH WW			
EAST SLAB EDGE			

PRIOR TO RELEASING SLAB FALSEWORK, TAKE TOP OF DECK ELEVATIONS AT THE \mathbb{Q} OF ABUTMENTS AND AT 5/10 POINTS TO VERIFY CAMBER. TAKE ELEVATIONS ALONG EDGE OF SLAB AND REFERENCE LINE. RECORD THE ELEVATIONS IN THE ABOVE TABLE FOR THE "AS BUILT" PLANS.

BILL OF BARS SUPERSTRUCTURE

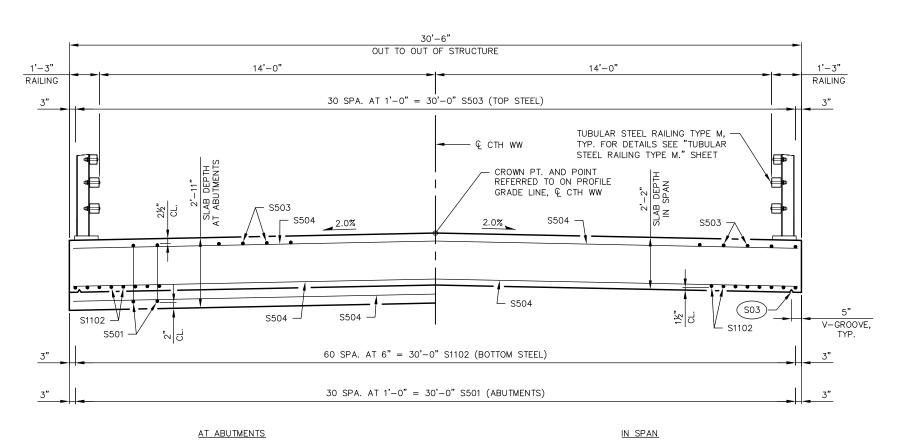
COATED = 23,080 LBS.

MARK	COATED Z	UNCOATED 33	LENGTH	BENT	BAR SERIES	LOCATION	
S501	62		7'-9"	Х		SLAB AT ABUTMENT - TIES	LONGIT.
S1102	61		48'-2"			SLAB - BOTTOM	LONGIT.
S503	31		48'-2"			SLAB - TOP	LONGIT.
S504	126		30'-2"			SLAB - TOP & BOTTOM	TRANS.
● S605	64		6'-0"			RAILING ANCHORS - INTERIOR POSTS	LONGIT.
● S606	40		12'-0"	Х		RAILING ANCHORS	TRANS.
● S607	16		5 ' -10 "	Χ		RAILING ANCHORS - END POSTS	LONGIT.

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

ALL BAR BEND DIMENSIONS ARE OUT TO OUT OF BAR.

 $\ \, \bigoplus$ SEE "SUPERSTRUCTURE" SHEET AND "TUBULAR STEEL RAILING TYPE M" SHEET FOR PLACEMENT.

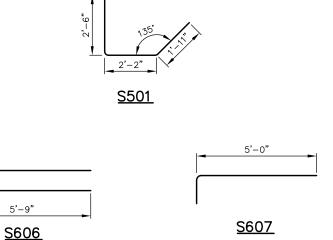


CROSS SECTION THRU ROADWAY (LOOKING NORTH)

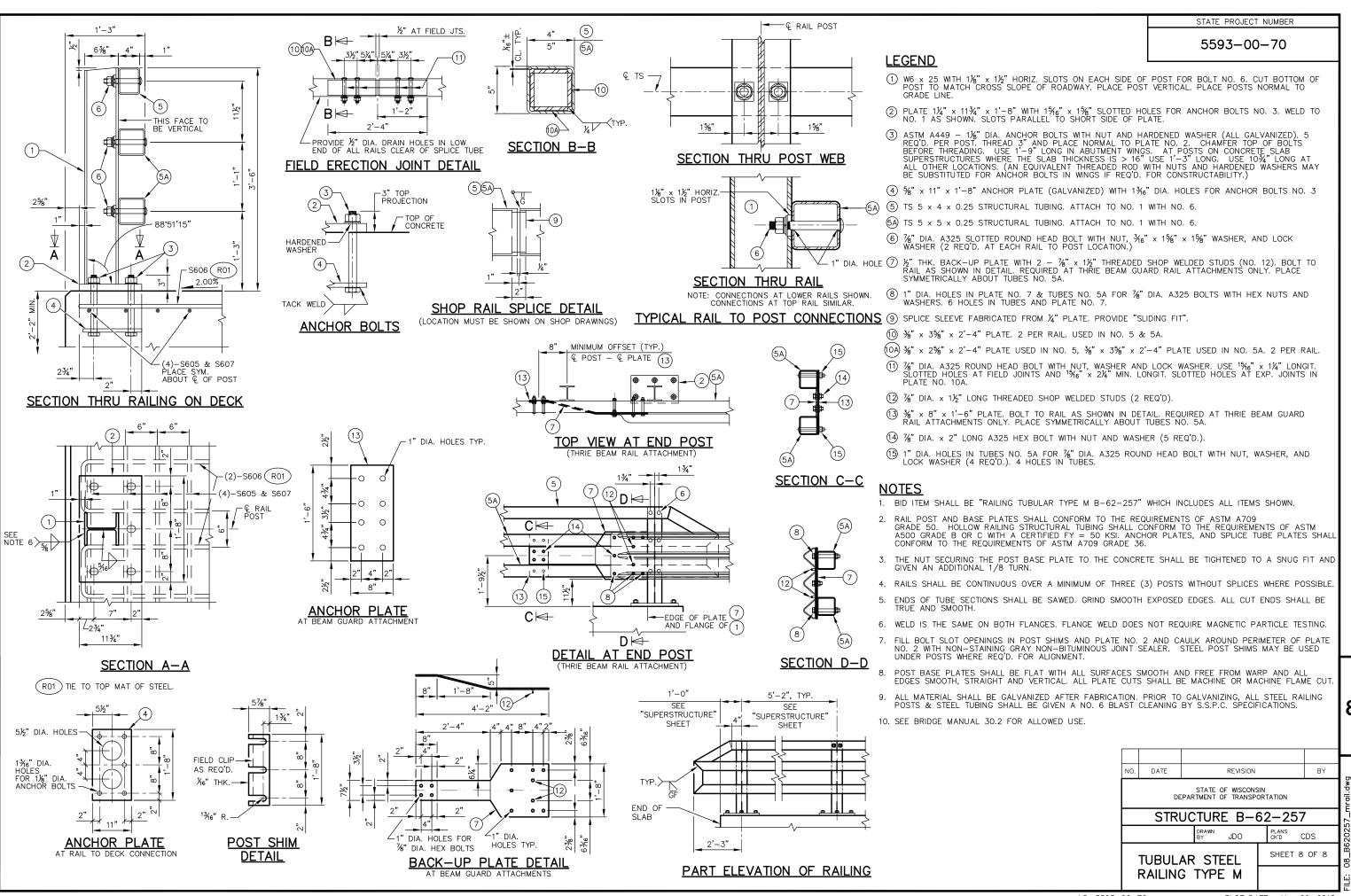
NOTES

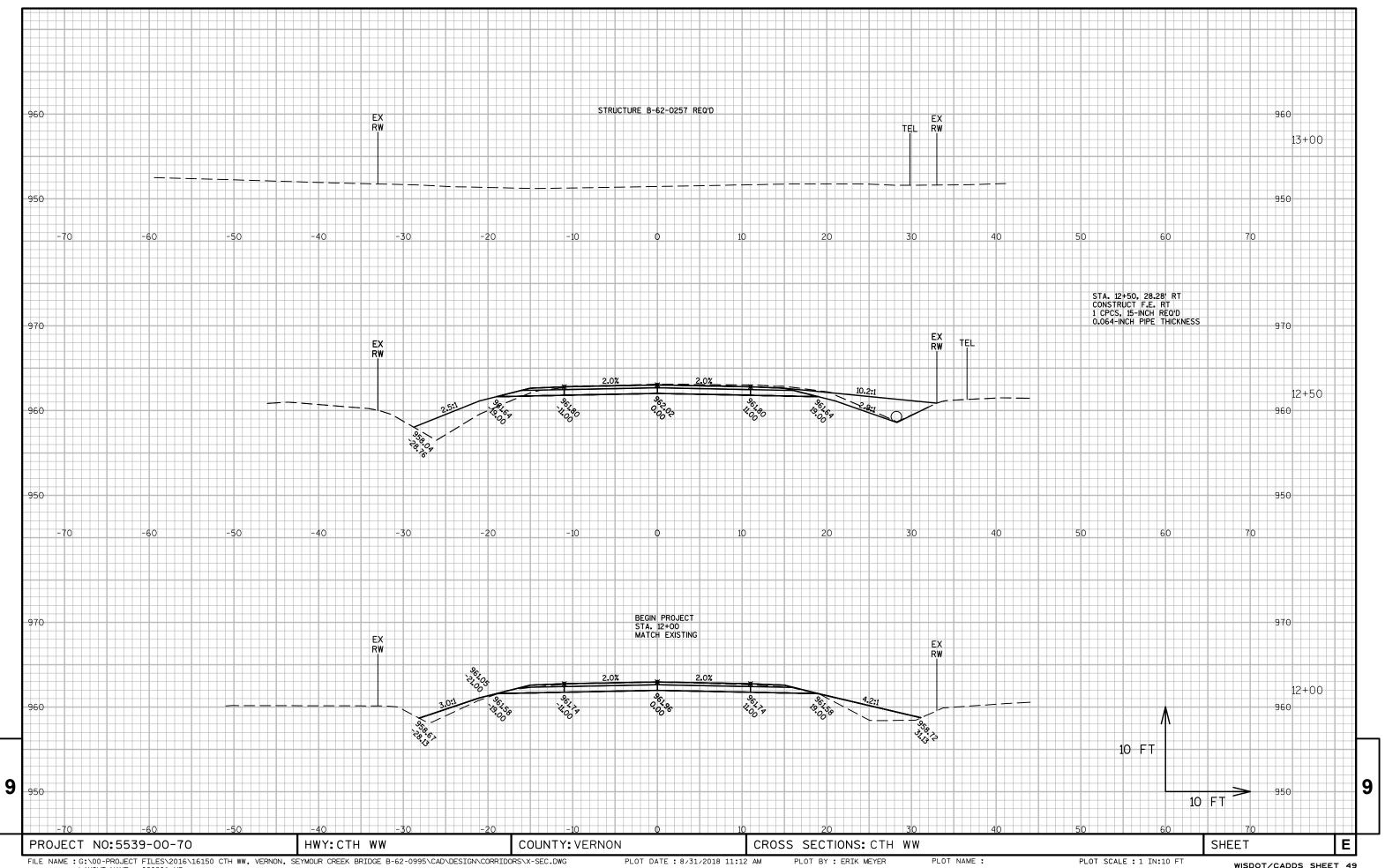
CAMBER SPAN AS SHOWN TO PROVIDE FOR DEAD LOAD DEFLECTION AND FUTURE CREEP. CAMBER DOES NOT INCLUDE ALLOWANCE FOR FORM SETTLEMENT.

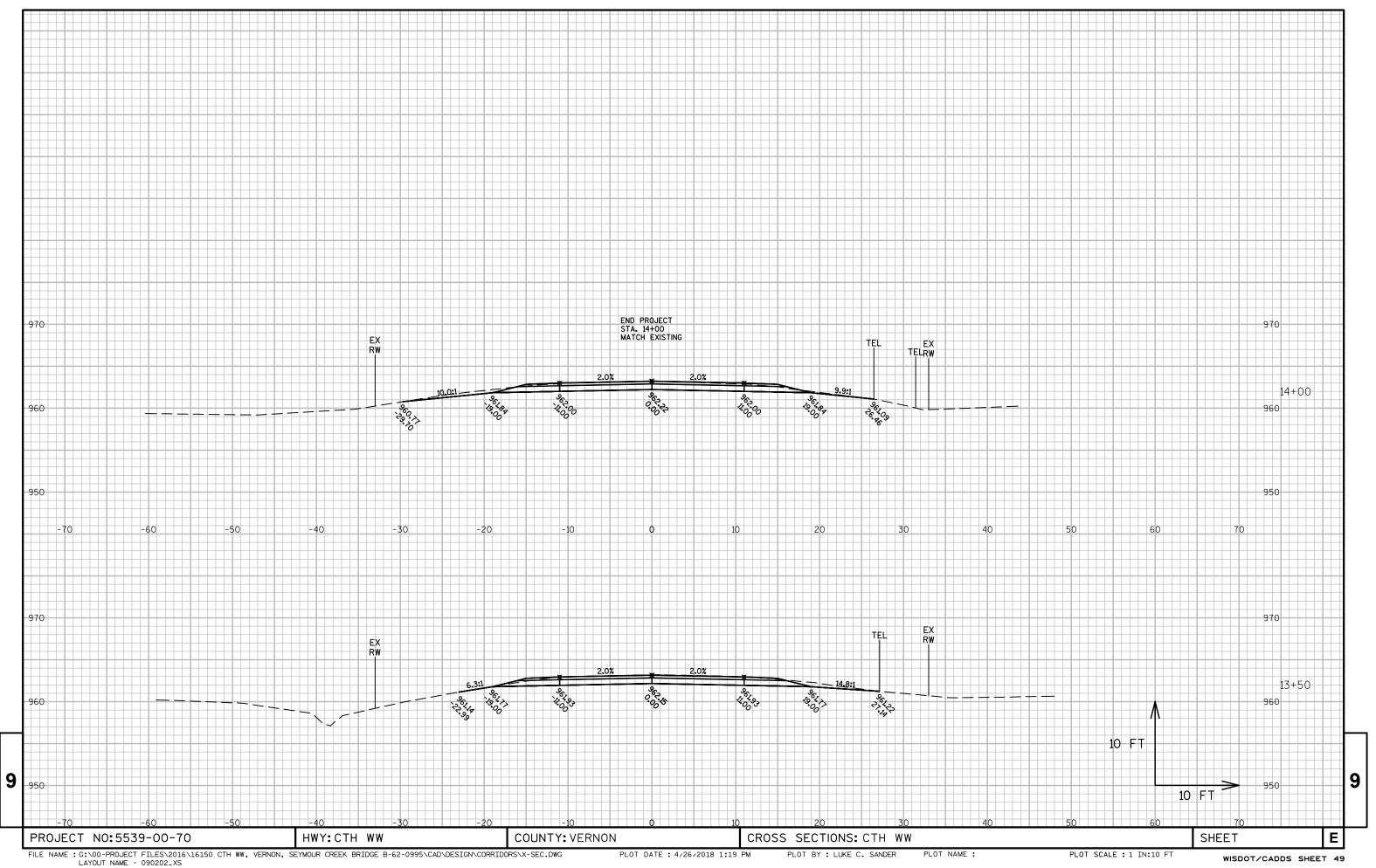
¾" V-GROOVE REQUIRED. EXTEND V-GROOVE TO 6" FROM FRONT FACE OF ABUTMENT.



DATE REVISION BY STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION STRUCTURE B-62-257 PLANS CK'D CDS SHEET 7 OF 8 **SUPERSTRUCTURE**







Notes



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