DECEMBER 2022

Section No.

TOTAL SHEETS =

ORDER OF SHEETS

VERNON

STATE OF WISCONSIN **DEPARTMENT OF TRANSPORTATION**

PLAN OF PROPOSED IMPROVEMENT

TOWN OF COON, OLD LINE ROAD

BR N FORK BAD AXE RV BR, B-62-0248

LOC STR, VERNON COUNTY

STATE PROJECT NUMBER

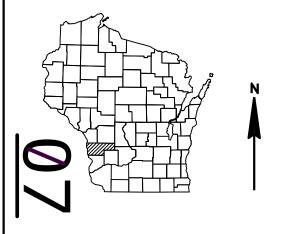
5378-00-72

T-15-N T-14-N

T-13-N

TOWN OF WASHINGTON

FEDERAL PROJECT STATE PROJECT CONTRACT 5378-00-72 WISC 2023088



Typical Sections and Details

Plan and Profile (Includes Erosion Control Plan)

Estimate of Quantities

Miscellaneous Quantities

Standard Detail Drawings

Cross Sections

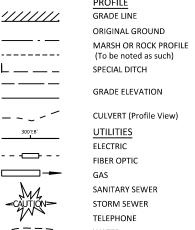
DESIGN DESIGNATION

AADT (2023) = 110 A.A.D.T. (2043) = 165 D.H.V. (2043) = 14.9D.D. = 60/40 = 10% (ASSUMED) DESIGN SPEED = 35 M.P.H = 50,200

CONVENTIONAL SYMBOLS

CONVENTIONAL SYMBOLS
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
MARSH AREA

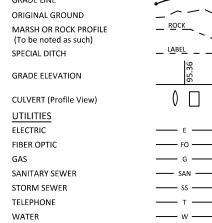
WOODED OR SHRUB AREA

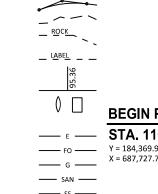


UTILITY PEDESTAL

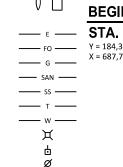
TELEPHONE POLE

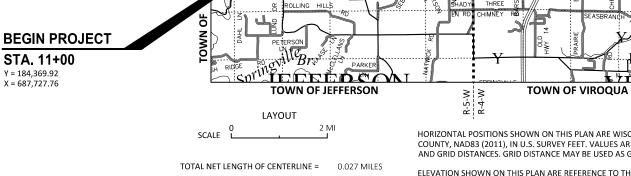
POWER POLE

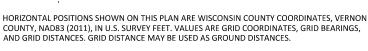




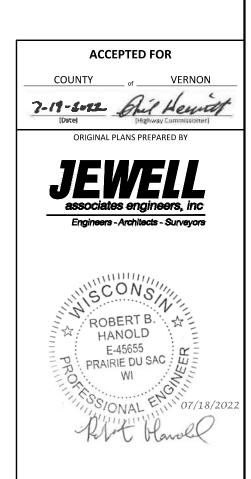
STRUCTURE B-62-0248







ELEVATION SHOWN ON THIS PLAN ARE REFERENCE TO THE NORTH AMERICAN VERTICAL DATUM OF



STATE OF WISCONSIN **DEPARTMENT OF TRANSPORTATION**

Surveyor	JEWELL ASSOCIATES ENGINEERS, INC.					
Designer	JEWELL ASSOCIATES ENGINEERS, INC.					
Project Manager	BRANDAN BURGER, P.E.					
Regional Examiner	SW REGION KYLE HEMP, P.E.					
Regional Supervisor						
negional supervisor						
APPROVED FOR THE DEPARTMENT						
The state of the s						

7/20/2022 Brandan Burger DN C-US, E CNUB COURS CO Ε

END PROJECT

T-14-N

STA. 12+40

TOWN OF PORTLAND

GENERAL NOTES

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.

NO TREES OR SHRUBS ARE TO BE REMOVED UNLESS SUCH TREES OR SHRUBS HAVE FIRST BEEN INDICATED FOR REMOVAL BY THE ENGINEER IN THE FIELD.

EXCAVATION BELOW SUBGRADE (EBS) IS NOT USED TO BALANCE YARDAGE, AND IS NOT SHOWN ON THE CROSS SECTIONS BUT IS MEASURED AND PAID FOR AS COMMON EXCAVATION. EXACT LOCATIONS OF EBS WILL BE DETERMINED BY THE ENGINEER IN THE FIELD.

UNLESS SHOWN OTHERWISE, DISTURBED AREAS SHOWN WITHIN THE RIGHT-OF-WAY, EXCEPT THE AREAS WITHIN THE FINISHED SHOULDER POINTS ARE TO BE FERTILIZED (TYPE B), SEEDED (USE SEED MIX NO. 20), AND MULCHED AS DIRECTED BY THE ENGINEER.

WHEN THE QUANTITY OF THE ITEM OF BASE AGGREGATE DENSE OR ASPHALTIC SURFACE IS MEASURED FOR PAYMENT BY THE TON, THE DEPTH OR THICKNESS OF THE COURSE SHOWN ON THE PLANS IS APPROXIMATE, AND THE ACTUAL THICKNESS WILL DEPEND ON THE DISTRIBUTION OF MATERIAL AS DIRECTED BY THE FINGINFER IN THE FIELD.

SILT FENCE SHALL BE PLACED AS SHOWN ON THE PLAN OR AS DIRECTED BY THE ENGINEER IN THE FIELD. SILT FENCE SHALL BE PLACED PRIOR TO CONSTRUCTION AND SHALL BE IN PLACE PRIOR TO STRUCTURE REMOVAL.

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.

THE LOCATION OF ALL PERMANENT SIGNING SHALL BE VERIFIED BY THE ENGINEER IN THE FIELD PRIOR TO PLACEMENT.

4-INCHES OF ASPHALTIC SURFACE SHALL BE CONSTRUCTED WITH A 2 $1\!\!/_{\!\!4}$ -INCH LOWER LAYER AND A 1 $1\!\!/_{\!\!4}$ -INCH UPPER LAYER.

ADJUST DITCH GRADING AS NECESSARY TO FIT FIELD CONDITIONS AND AS DIRECTED BY THE ENGINEER IN THE FIELD.

ASPHALTIC SURFACE QUANTITIES WERE CALCULATED USING 112 LB/SY/IN.

CURVE DATA IS BASED ON THE ARC DEFINITIONS.

CONTACTS

WISDOT:

WISCONSIN DEPARTMENT OF TRANSPORTATION 2101 WRIGHT STREET MADISON, WI 53704 ATTN: BRANDAN BURGER, P.E. PHONE: (608) 267-4019 EMAIL: brandan.burger@dot.wi.gov

VERNON COUNTY HIGHWAY DEPARTMENT:

PHIL HEWITT, HIGHWAY COMMISSIONER 1335 RAILROAD AVE. VIROQUA, WI 54665 PHONE: (608) 637-5452 EMAIL: phil.hewitt@vernoncounty.com

TOWN OF COON:

ORLAN BAKKUM, CHAIRMAN S1770 TOWN HALL LANE WESTBY, WI 54667 PHONE: (608) 634-3624 EMAIL: ordenbak@mwt.net

UNIACIS

DESIGN CONSULTANT:

JEWELL ASSOCIATES ENGINEERS, INC. 560 SUNRISE DRIVE SPRING GREEN, WI 53588 ATTN: ROBERT HANOLD, P.E. PHONE: (608) 588-7484 CELL: (608) 606-3568 EMAIL: robert.hanold@jewellassoc.com

DNR LIAISON:

STATE OF WISCONSIN DNR SERVICE CENTER 3550 MORMON COULEE ROAD LA CROSSE, WI 54601 ATTN: KAREN KALVELIAGE PHONE: (608) 406-7880 EMAIL: karen.kalvelage@wisconsin.gov

UTILITIES

ELECTRIC

VERNON COMMUNICATIONS COOPERATIVE ATTN: SCOTT FREDERICK 103 N MAIN STREET WESTBY, WI 54667 P.O. BOX 20 PHONE: (608) 634-7434 EMAIL: sfrederick@vernoncom.coop

ABUT Abutment

Iron Pipe or Pin Acre Sanitary Sewer Aggregate AGG IRS Iron Rod Set SEC Section ΑН Ahead loint SHIDR Shoulder JCT SHR Angle Junction Shrinkage ASPH Left-Hand Forward AVG ADT Average Length of Curve South Average Daily Traffic LIN FT or LF SQ Linear Foot Sauare BAD Long Chord of Curve SF or SQ FT Square Feet Base Aggregate Dense BK BF SY or SQ YD Square Yard Back Face MR Mailhox STD Standard BM Bench Mark ML or M/L Match Line SDD Standard Detail Drawings STH State Trunk Highways Bridge North Grid Coordinate C or C/L Center Line STA Station CC CTH Center to Center O.A.L. Overall Length Outside Diameter SS Storm Sewer County Trunk Highway Subgrade PLE Permanent Limited Easement Superelevation CR Crushed Point SL or S/L Survey Line PT Point of Curvature CY or CU YD Cubic Yard SV Sentic Vent Culvert Pipe Point of Intersection Tangent C & G Curb and Gutter Point of Reverse Curvature TEL Telephone Degree of Curve PRC Point of Tangency TEMP Temporary DHV Point On Curve Temporary Interest Design Hour Volume POC Point on Tangent TLE Temporary Limited Easement Diameter Polyvinyl Chloride Fast Grid Coordinate T or TN PVC Portland Cement Concrete Town ELEC Transition Electric (al) **TRANS** EL or ELEV Pounds Per Square Inch TL or T/L Transit Line Equivalent Single Axle Loads ESALS PSI Private Entrance Trucks (percent of) TYP Excavation Below Subgrade PE EBS Radius Typical ESTR Existing Sign to Remain Unclassified Railroad UNCL Range UG USH **Underground Cable** Reference Line Field Entrance United States Highway VAR RL or R/L Reference Point Variable

Reinforced Concrete Culvert

Residence or Residential

Right-Hand Forward

Required

Retaining Wall

Right-of-Way

Roadway

LIST OF STANDARD ABBREVIATIONS

Invert

SALV

VFRT

VOL

WV

YD

Salvaged

Velocity or Design Speed

Vertical

Volume

West

Vertical Curve

Water Main

Water Valve

Westbound

INV

RCCP

REO'D

RES

RW

RT

RHF

RD RDWY

R/W



HYDROLOGIC SOIL GROUP										
P	1	В			С			D		
RANG	E (PERCENT)	SLOPE	RANG	E (PERCENT)	SLOPE	RANG	E (PERCENT)	SLOPE	RANG	E (PERCENT)
2-6	6 & OVER	0-2	2-6	6 & OVER	0-2	2-6	6 & OVER	0-2	2-6	6 & OVER
.16 .30	.22 .38	.12 .26	.20 .34	.27 .44	.15 .30	.24 .37	.33 .50	.19 .34	.28 .41	.38 .56
.20 .26	.24 .30	.19 .25	.22 .28	.26 .33	.20 .26	.23 .30	.30 .37	.20 .27	.25 .32	.30 .40
	.25 .32			.27 .34			.28 .36			.30 .38
				.709	95					
				.809	95					
RICK .7080										
PRIVES, WALKS .7585										
ROOFS .7595										
ERS				.406	50					
	2-6 .16 .30 .20 .26 EERS	2-6 6 & OVER 16 .22 .30 .38 .20 .24 .30 .25 .32 .32	RANGE (PERCENT) SLOPE 2-6 6 & OVER 0-2 .16 .22 .12 .30 .38 .26 .20 .24 .19 .26 .30 .25 .25 .32 ERS	RANGE (PERCENT) SLOPE RANGE 2-6 6 & OVER 0-2 2-6 .16 .22 .12 .20 .30 .38 .26 .34 .20 .24 .19 .22 .26 .30 .25 .28 .25 .32	RANGE (PERCENT) SLOPE RANGE (PERCENT) 2-6 6 & OVER 0-2 2-6 6 & OVER .16 .22 .12 .20 .27 .30 .38 .26 .34 .44 .20 .24 .19 .22 .26 .26 .30 .25 .28 .33 .25 .32 .27 .34 .709 .709 .759 .759	RANGE (PERCENT) SLOPE RANGE (PERCENT) SLOPE 2-6 6 & OVER 0-2 2-6 6 & OVER 0-2 .16 .22 .12 .20 .27 .15 .30 .38 .26 .34 .44 .30 .20 .24 .19 .22 .26 .20 .25 .28 .33 .26 .25 .32 .70 .34 .34 .7095 .8095 .7080 .7585 .7595 ERS .4060	RANGE (PERCENT) SLOPE RANGE (PERCENT) SLOPE RANGE 2-6 6 & OVER 0-2 2-6 6 & OVER 0-2 2-6 16 .22 .12 .20 .27 .15 .24 .30 .38 .26 .34 .44 .30 .37 .20 .24 .19 .22 .26 .20 .23 .26 .30 .25 .28 .33 .26 .30 .25 .32 .27 .34 .7095 .8095 .7080 .7585 .7595 ERS .4060	RANGE (PERCENT) SLOPE RANGE (PERCENT) SLOPE RANGE (PERCENT) 2-6 6 & OVER 0-2 2-6 6 & OVER 0-2 2-6 6 & OVER 1.6 .22 .12 .20 .27 .15 .24 .33 .30 .38 .26 .34 .44 .30 .37 .50 2.0 .24 .19 .22 .26 .20 .23 .30 .26 .30 .25 .28 .33 .26 .30 .37 2.5 .32 .27 .34 .28 .36 .36	RANGE (PERCENT) SLOPE RANGE (PERCENT) SLOPE RANGE (PERCENT) SLOPE 2-6 6 & OVER 0-2 2-6 6 & OVER 0-2 2-6 6 & OVER 0-2 16 .22 .12 .20 .27 .15 .24 .33 .19 30 .38 .26 .34 .44 .30 .37 .50 .34 .20 .24 .19 .22 .26 .20 .23 .30 .20 26 .30 .25 .28 .33 .26 .30 .37 .27 27 .25 .32 .34 .44 .34 .36 .36	RANGE (PERCENT) SLOPE RANGE (PERCENT) SLOPE RANGE (PERCENT) SLOPE RANGE 2-6 6 & OVER 0-2 2-6 6 & OVER 0-2 2-6 6 & OVER 0-2 2-6 16 .22 .12 .20 .27 .15 .24 .33 .19 .28 .30 .38 .26 .34 .44 .30 .37 .50 .34 .41 .20 .24 .19 .22 .26 .20 .23 .30 .20 .25 .26 .30 .25 .28 .33 .26 .30 .37 .27 .32 2.5 .32 .27 .34 .36 .36 .7095 .30 .36 .30 .7095 .30 .7585 .7595 ERS .4060

PLOT SCALE : 1" = 1'

TOTAL PROJECT AREA= 0.21 ACRES

Finished Grade

Flow Line

Footing

Height

Hydrant

Grid North

Hundredweight

Inside Diameter

FL or F/L

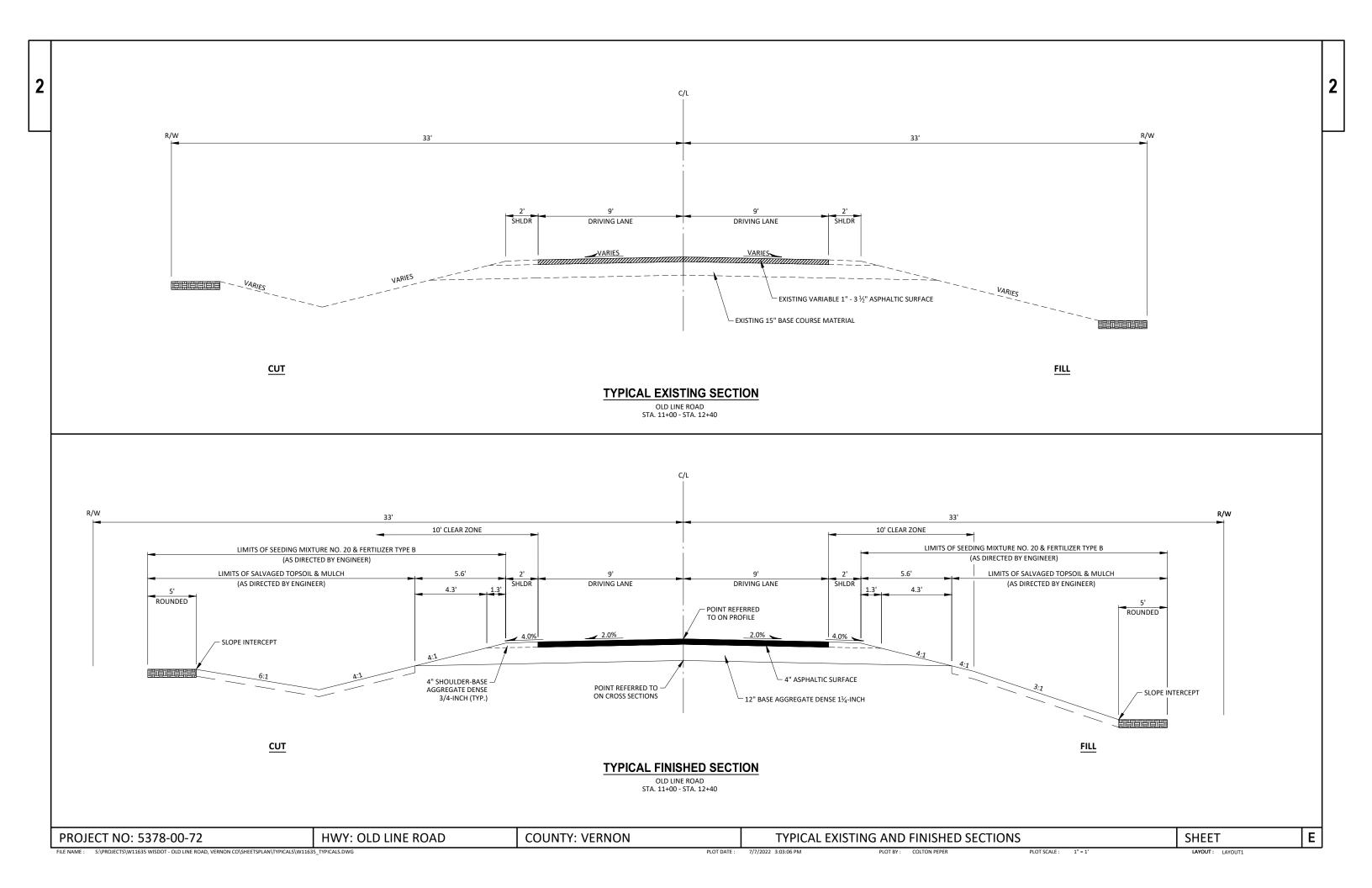
FTG

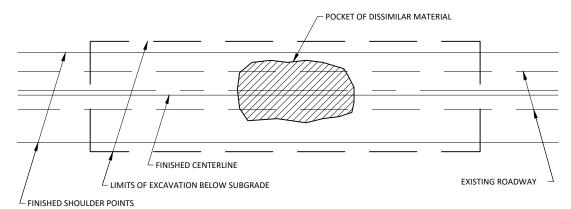
CWT

INL

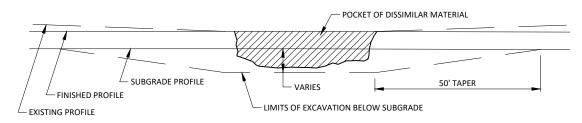
TOTAL AREA EXPECTED TO BE DISTURBED BY CONSTRUCTION ACTIVITIES = 0.16 ACRES

PROJECT NO: 5378-00-72 HWY: OLD LINE ROAD COUNTY: VERNON GENERAL NOTES, UTILITIES, CONTACTS, & ABBREVIATIONS SHEET **E**

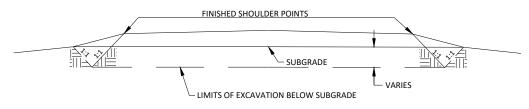




PLAN VIEW



PROFILE VIEW

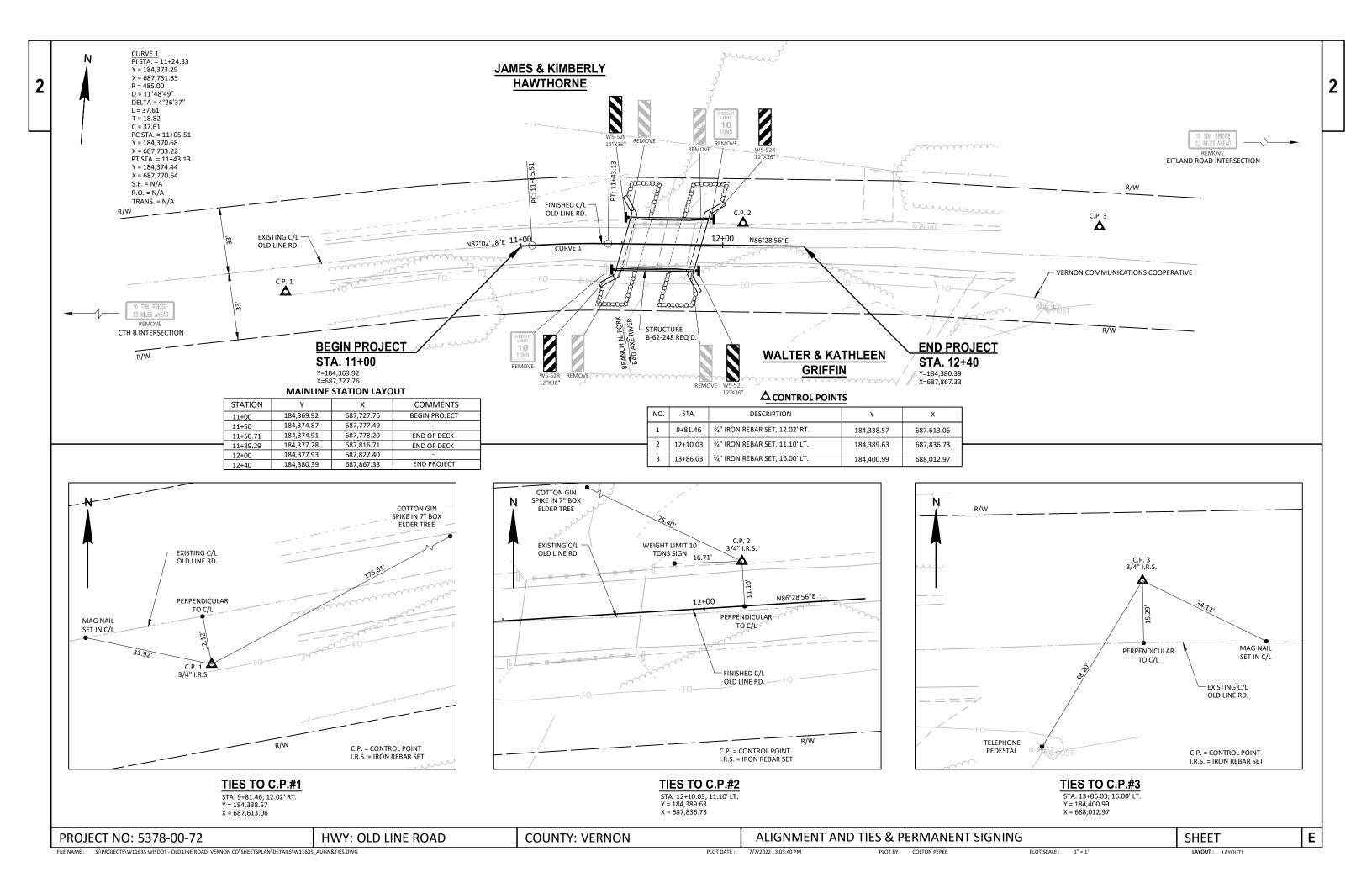


CROSS SECTION VIEW

- 1. EXACT LOCATION OF E.B.S. (EXCAVATION BELOW SUBGRADE) SHALL BE DETERMINED BY THE ENGINEER IN THE FIELD.
- 2. E.B.S. AREA TO BE BACKFILLED WITH MATERIAL ACCEPTABLE TO THE ENGINEER. BACKFILL MUST BE HOMOGENEOUS WITH ADJOINING FILL MATERIAL.
- 3. THE FILL SECTION WITHIN 100' OF THE MOUTH OF THE CUT MUST BE KEPT 2' BELOW SUBGRADE UNTIL E.B.S. IS COMPLETED. LATERAL LIMITS OF EXCAVATION SHALL BE THE SUBGRADE SHOULDER POINTS.

EXCAVATION BELOW SUBGRADE (E.B.S.) DETAIL

COUNTY: VERNON Ε PROJECT NO: 5378-00-72 **HWY: OLD LINE ROAD CONSTRUCTION DETAILS SHEET** PLOT BY: COLTON PEPER



E270	00-72
5570	·UU-12

					5378-00-72	
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	203.0220	Removing Structure (structure) 01. P-62-0181	EACH	1.000	1.000	
8000	205.0100	Excavation Common	CY	110.000	110.000	
0010	206.1001	Excavation for Structures Bridges (structure) 01. B-62-0248	EACH	1.000	1.000	
0012	210.1500	Backfill Structure Type A	TON	302.000	302.000	
0014	213.0100	Finishing Roadway (project) 01. 5378-00-72	EACH	1.000	1.000	
0016	305.0110	Base Aggregate Dense 3/4-Inch	TON	18.000	18.000	
0018	305.0120	Base Aggregate Dense 1 1/4-Inch	TON	270.000	270.000	
0020	455.0605	Tack Coat	GAL	14.000	14.000	
0022	465.0105	Asphaltic Surface	TON	62.000	62.000	
0024	502.0100	Concrete Masonry Bridges	CY	131.000	131.000	
0026	502.3200	Protective Surface Treatment	SY	135.000	135.000	
0028	502.3210	Pigmented Surface Sealer	SY	38.000	38.000	
0030	505.0400	Bar Steel Reinforcement HS Structures	LB	4,080.000	4,080.000	
0032	505.0600	Bar Steel Reinforcement HS Coated Structures	LB	20,320.000	20,320.000	
0034	516.0500	Rubberized Membrane Waterproofing	SY	10.000	10.000	
0036	550.0010	Pre-Boring Unconsolidated Materials	LF	180.000	180.000	
0038	550.1100	Piling Steel HP 10-Inch X 42 Lb	LF	300.000	300.000	
0040	606.0400	Riprap Extra-Heavy	CY	200.000	200.000	
0042	612.0406	Pipe Underdrain Wrapped 6-Inch	LF	144.000	144.000	
0044	614.0150	Anchor Assemblies for Steel Plate Beam Guard	EACH	4.000	4.000	
0046	618.0100	Maintenance And Repair of Haul Roads (project) 01. 5378-00-72	EACH	1.000	1.000	
0048	619.1000	Mobilization	EACH	1.000	1.000	
0050	624.0100	Water	MGAL	5.000	5.000	
0052	625.0500	Salvaged Topsoil	SY	380.000	380.000	
0054	627.0200	Mulching	SY	380.000	380.000	
0056	628.1504	Silt Fence	LF	480.000	480.000	
0058	628.1520	Silt Fence Maintenance	LF	960.000	960.000	
0060	628.1905	Mobilizations Erosion Control	EACH	3.000	3.000	
0062	628.1910	Mobilizations Emergency Erosion Control	EACH	2.000	2.000	
0064	629.0210	Fertilizer Type B	CWT	1.000	1.000	
0066	630.0120	Seeding Mixture No. 20	LB	15.000	15.000	
0068	630.0200	Seeding Temporary	LB	15.000	15.000	
0070	630.0500	Seed Water	MGAL	13.000	13.000	
0072	634.0612	Posts Wood 4x6-Inch X 12-FT	EACH	4.000	4.000	
0074	637.2230	Signs Type II Reflective F	SF	12.000	12.000	
0076 0078	638.2602	Removing Signs Type II	EACH EACH	8.000	8.000	
	638.3000	Removing Small Sign Supports	EACH	8.000	8.000	
0800	642.5001	Field Office Type B		1.000	1.000	
0082	643.0420	Traffic Control Barricades Type III	DAY	1,080.000	1,080.000	
0084	643.0705 643.0900	Traffic Control Signs	DAY	1,680.000 840.000	1,680.000	
0086 0088	643.5000	Traffic Control Signs Traffic Control	DAY EACH	1.000	840.000 1.000	
0088	645.0111	Geotextile Type DF Schedule A	SY	60.000	60.000	
0090	645.0111	Geotextile Type HR	SY	260.000	260.000	
0092	650.4500	Construction Staking Subgrade	LF	100.000	100.000	
0094	650.5000	Construction Staking Subgrade Construction Staking Base	LF	100.000	100.000	
0098	650.6501	Construction Staking Structure Layout (structure) 01. B-62-0248	EACH	1.000	1.000	
0030	000.0001	Construction Staking Structure Layout (Structure) 01. D-02-0246	EACH	1.000	1.000	

11/01/2022 10:27:11

Estimate	Of	Quantities
Lotilliato	\sim	Qualitico

Page 2

1

					5378-00-72
Line	Item	Item Description	Unit	Total	Qty
0100	650.9911	Construction Staking Supplemental Control (project) 01. 5378-00-72	EACH	1.000	1.000
0102	650.9920	Construction Staking Slope Stakes	LF	100.000	100.000
0104	690.0150	Sawing Asphalt	LF	36.000	36.000
0106	715.0502	Incentive Strength Concrete Structures	DOL	786.000	786.000
0108	999.2000.S	Installing and Maintaining Bird Deterrent System (station) 01. 11+65	EACH	1.000	1.000
0110	ASP.1T0A	On-the-Job Training Apprentice at \$5.00/HR	HRS	300.000	300.000
0112	ASP.1T0G	On-the-Job Training Graduate at \$5.00/HR	HRS	300.000	300.000
0114	SPV.0195	Special 01. Excavation, Hauling and Disposal of Creosote Contaminated Soil	TON	370.000	370.000

ALL ITEMS 010 UNLESS OTHERWISE NOTED

3

Ε

CLEARING & GRUBBING

201.0105 201.0205 CLEARING GRUBBING STATION LOCATION
11+00 - 13+00 MAINLINE (STA) (STA) TOTALS =

EARTHWORK SUMMARY

FROMTO STA	LOCATION	205.0100 EXCAVATION COMMON CUT (CY)	MATERIAL (CY) (1)	FILL (CY)	EXPANDED FILL (CY) FACTOR 1.25 (2)	MASS ORDINATE +/- (CY) (3)	WASTE (CY)
11+00 - 12+40	MAINLINE	110	110	50	65	45	45
	TOTALS =	110	110	50	65	45	45

- NOTES: 1.) AVAILABLE MATERIAL = CUT
- 2.) EXPANDED FILL FACTOR 1.25: EXPANDED FILL = (UNEXPANDED FILL)*1.25
- 3.) THE MASS ORDINATE+ OR QTY CALCULATED FOR THE DIVISION. PLUS QUANTITY INDICATES AN EXCESS OF MATERIAL WITHIN THE CATEGORY. MINUS INDICATES A SHORTAGE OF MATERIAL WITHIN THE CATEGORY.

BASE AGGREGATE DENSE

305.0110 305.0120 BASE AGGREGATE BASE AGGREGATE DENSE 3/4-INCH DENSE 1 1/4-INCH STATION - STATION LOCATION (TON) (TON) 11+00 - 11+50 MAINLINE 135 135 11+90 - 12+40 MAINLINE TOTALS = 270 18

ASPHALTIC SURFACE

		455.0605 TACK COAT	465.0105 ASPHALTIC SURFACE
STATION - STATION	LOCATION	(GAL)	(TON)
11+00 - 11+50	MAINLINE	7	31
11+90 - 12+40	MAINLINE	7	31
	TOTALS =	14	62

			628.1520
		628.1504	SILT FENCE
		SILT FENCE	MAINTENANCE
STATION - STATION	LOCATION	(LF)	(LF)
11+00 - 11+52	MAINLINE, LT	105	210
11+00 - 11+52	MAINLINE, RT	83	166
11+88 - 12+40	MAINLINE, LT	89	178
11+88 - 12+40	MAINLINE, RT	106	212
u -	UNDISTRIBUTED	97	194

TOTALS =

480

960

SILT FENCE

WATER 624.0100 STATION-STATION LOCATION (MGAL) 11+00 - 12+40 MAINLINE 5 TOTAL =

MO	BILIZATION ERC	SION CONTROL
PROJECT_ 5378-00-02	628.1905 MOBILIZATIONS EROSION CONTROL (EACH)	628.1910 MOBILIZATIONS EMERGENCY EROSION CONTROL (EACH)
TOTALS	S = 3	2

FINISHING ITEMS

STATION - STATION 11+00 - 11+50 11+90 - 12+40	LOCATION MAINLINE MAINLINE	625.0500 SALVAGED TOPSOIL (SY) 141 161	627.0200 MULCHING (SY) 141 161	629.0210 FERTILIZER TYPE B (CWT) 0.4 0.4	630.0120 SEEDING MIXTURE NO. 20 (LB) 5.8 6.2	630.0200 SEEDING TEMPORARY (LB)	630.0500 SEED WATER (MGAL) 5.0 5.3
-	UNDISTRIBUTED	78	78	0.2	3.0	15.0	2.7
	TOTALS =	380	380	1.0	15.0	15.0	13.0

LOCATION	643.0420 BARRICADES TYPE III (DAY)	643.0705 WARNING LIGHTS TYPE A (DAY)	643.0900 SIGNS (DAY)	643.5000 TRAFFIC CONTROL (EACH)
PROJECT	1080	1680	840	1
TOTALS =	1080	1680	840	1

		690.0150
TATION	LOCATION	(L.F.)
11_00	MAINI INE	1.0

SAWING ASPHALT

12+40 MAINLINE 18 TOTAL = 36

SHEET

PERMANENT SIGNING

MOVING REMOVING SMALL SIGN SUPPORTS (EACH) (EACH)
YPE II SUPPORTS
(EACH) (EACH) 1
1 1
1 1
1 1
1 1
1 1
1 1
1 1
1 1
-

COUNTY: VERNON

CONSTRUCTION STAKING

STATION -STATION 11+00 - 11+50 11+90 - 12+40	LOCATION MAINLINE MAINLINE PROJECT	650.4500 SUBGRADE (LF) 50 50	650.5000 BASE (LF) 50 50	*650.6501 STRUCTURE LAYOUT (B-62-248) (EACH) - - 1	650.9911 SUPPLEMENTAL CONTROL (01. 5378-00-72) (EACH)	650.9920 SLOPES STAKES (LF) 50 50
	TOTALS =	100	100	1	1	100

*CATEGORY 020

EXCAVATION, HAULING, AND DISPOSAL OF CREOSOTE CONTAMINATED SOIL

	SPV.0195.01
LOCATION	(TON)
WEST ABUT	178
EAST ABUT	192
TOTAL =	370

S:\PROJECTS\W11635 WISDOT - OLD LINE ROAD, VERNON CO\PSE\QUANTITIES\CAD DRAWINGS\MISC QTY OLD LINE ROAD.DWG

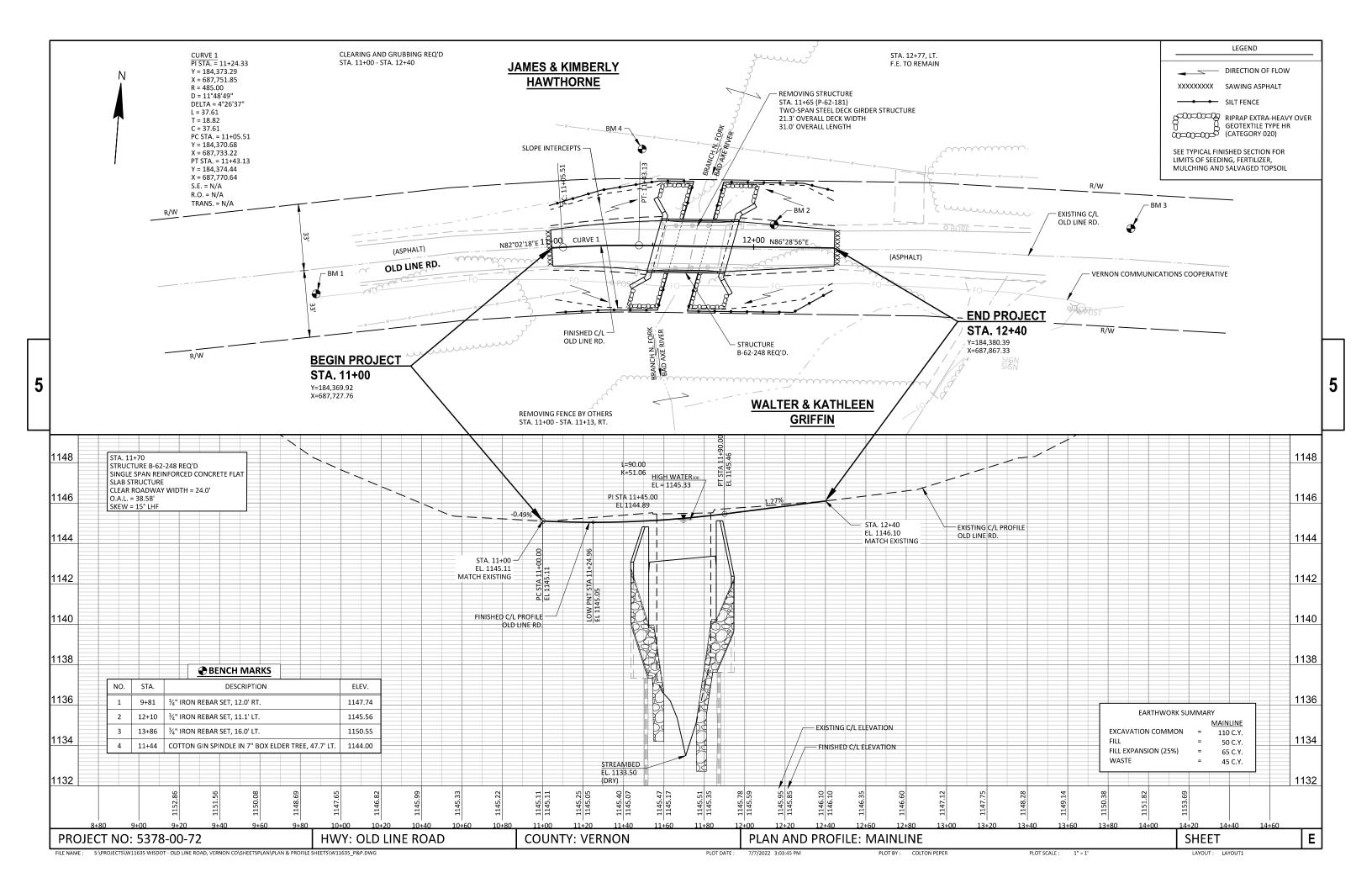
HWY: OLD LINE ROAD

MISCELLANEOUS QUANTITIES

PLOT BY: COLTON PEPER

PLOT SCALE : 1" = 1'

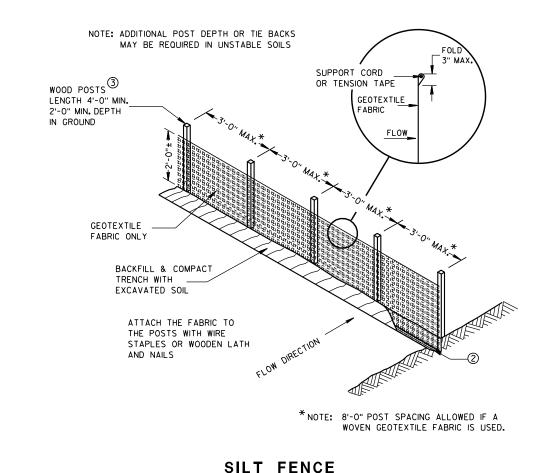
PROJECT NO: 5378-00-72

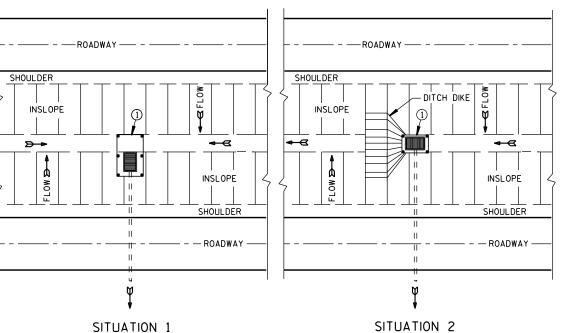


Standard Detail Drawing List

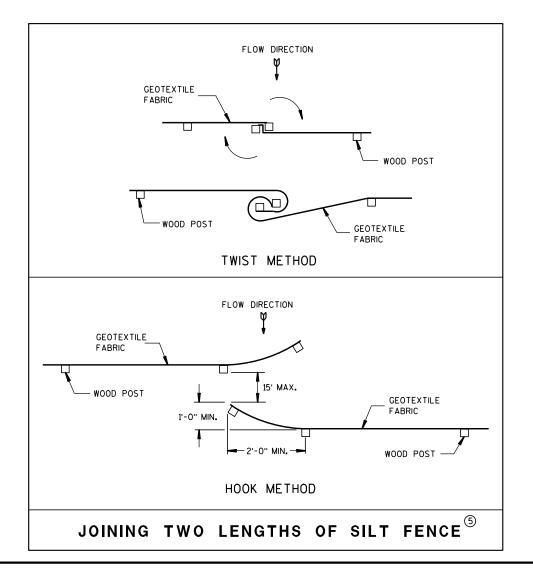
08E09-06	SILT FENCE
12A03-10	NAME PLATE (STRUCTURES)
13C19-03	HMA LONGITUDINAL JOINTS
15C02-08A	BARRICADES AND SIGNS FOR MAINLINE CLOSURES
15C02-08B	BARRICADES AND SIGNS FOR VARIOUS CLOSURES
15C06-10	SIGNING & MARKING FOR TWO LANE BRIDGES
15C11-09B	CHANNELLZING DEVICES DRUMS CONES BARRICADES AND VERTICAL PANEL

TYPICAL APPLICATION OF SILT FENCE





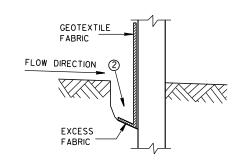
PLAN VIEW SILT FENCE AT MEDIAN SURFACE DRAINS



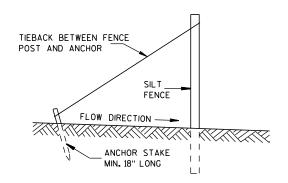
GENERAL NOTES

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)

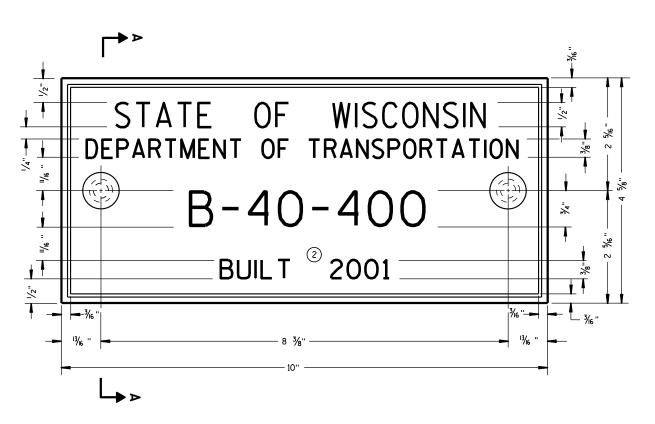
SILT FENCE STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION APPROVED 4-29-05 /S/ Beth Cannestra CHIEF ROADWAY DEVELOPMENT ENGINEER

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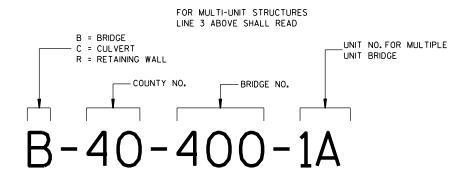
6





TYPICAL NAME PLATE

(BRIDGES, CULVERTS, AND RETAINING WALLS)



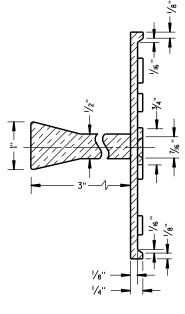
NUMBERING DESIGNATION MULTI-UNIT STRUCTURES

GENERAL NOTES

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

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

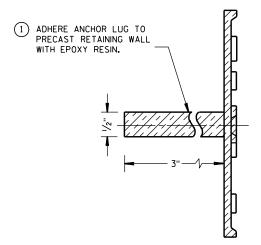
- 1 EPOXY RESIN SHALL BE FROM AN APPROVED MANUFACTURER AND USED IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS.
- REHABILITATION OF AN EXISTING STRUCTURE SHOULD USE THE DATE OF ORIGINAL STRUCTURE CONSTRUCTION.



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

SECTION A-A

ALTERNATE LUG



ALTERNATE LUG

(FOR ATTACHMENT TO PRECAST STRUCTURES)

NAME PLATE (STRUCTURES)

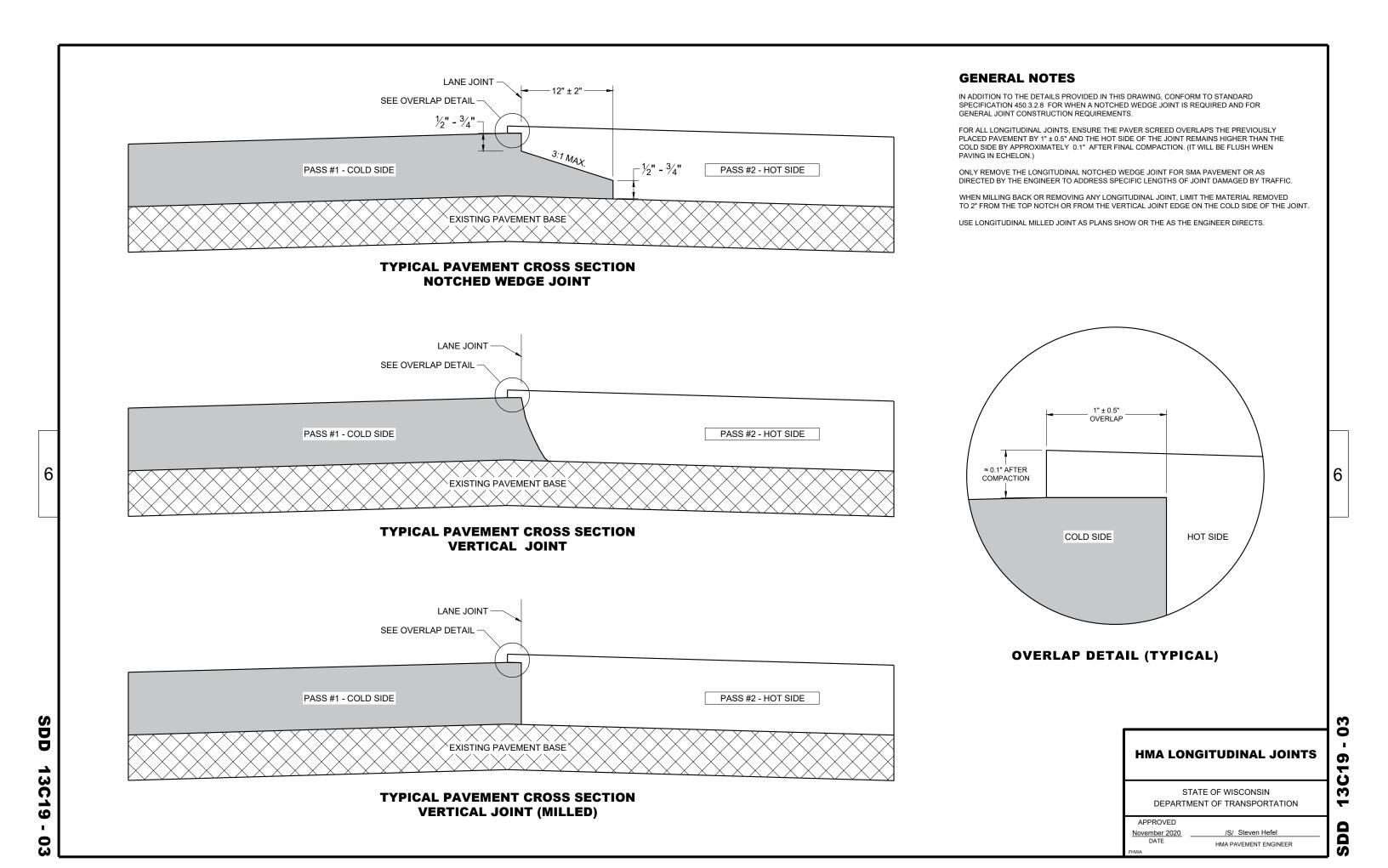
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

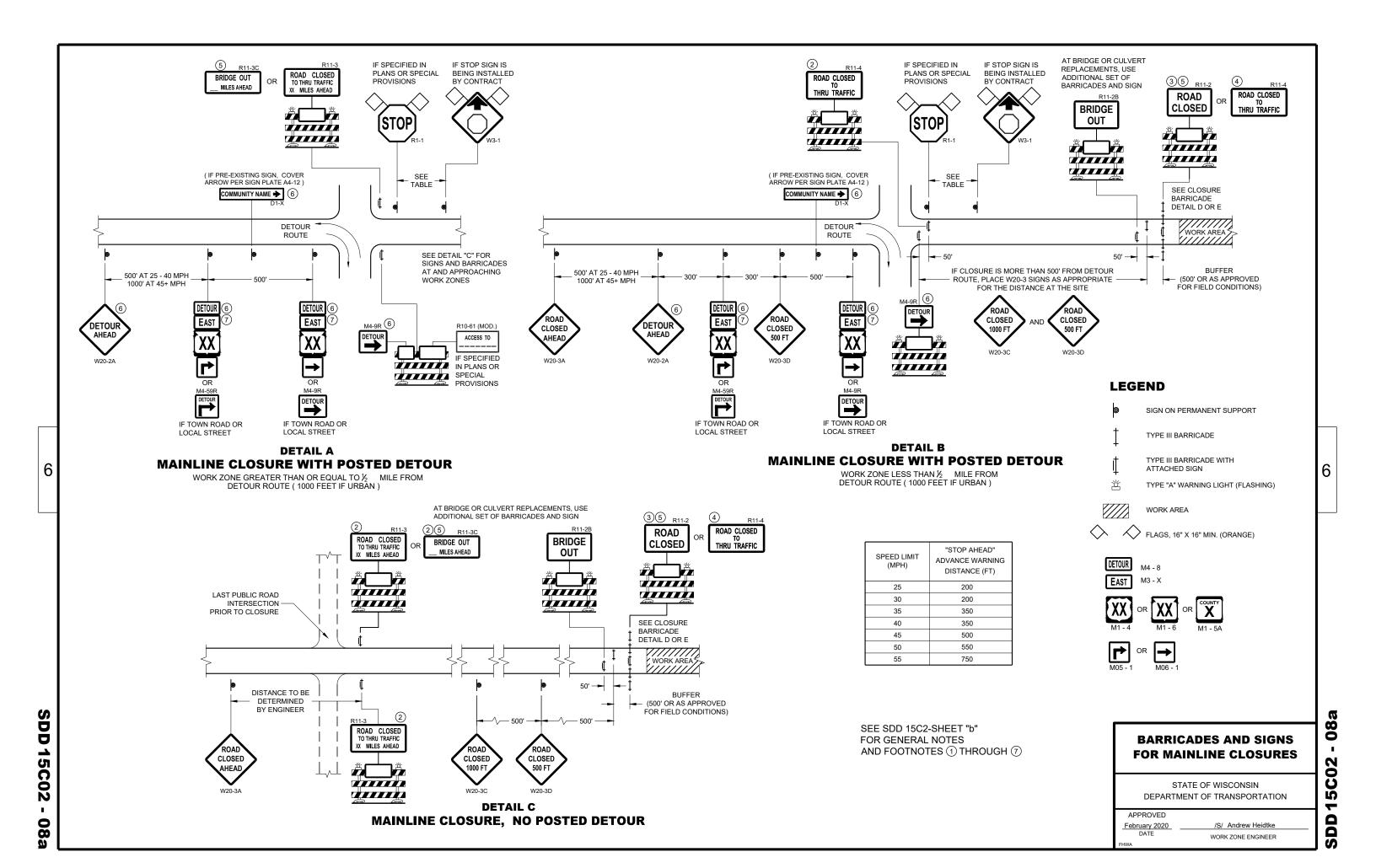
3-10

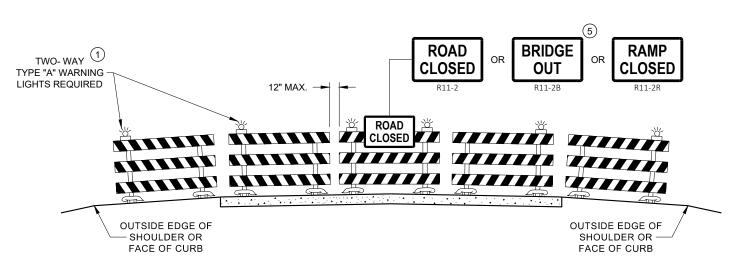
APPROVED

3/26/IO /S/ SCOT BECKET

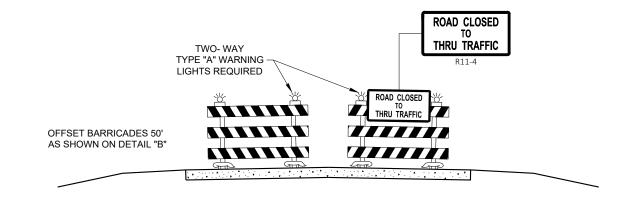
CHIEF STRUCTURAL DEVELOPMENT ENGINEER







DETAIL D ROAD CLOSURE BARRICADE DETAIL APPROACH VIEW



DETAIL E LANE CLOSURE BARRICADE DETAIL APPROACH VIEW

SEE SDD 15C2 - SHEET "a" FOR LEGEND

GENERAL NOTES

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

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

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

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

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

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

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

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

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

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

R11 - 2 SHALL BE 48" X 30"

R11 - 3 SHALL, R11 - 4 AND R10 - 61 SHALL BE 60 " X 30"

M4 - 9 SHALL BE 30" X 24"

M3 - X SHALL BE 24" X 12" (36" X 18" IF NEEDED TO MATCH EXISTING SIGNS)

M4 - 8 SHALL BE 24" X 12" (36" X 18" IF NEEDED TO MATCH EXISTING SIGNS)

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

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

R1 - 1 SHALL BE 36" X 36"

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

FOR VARIOUS CLOSURES

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED

February 2020 ____

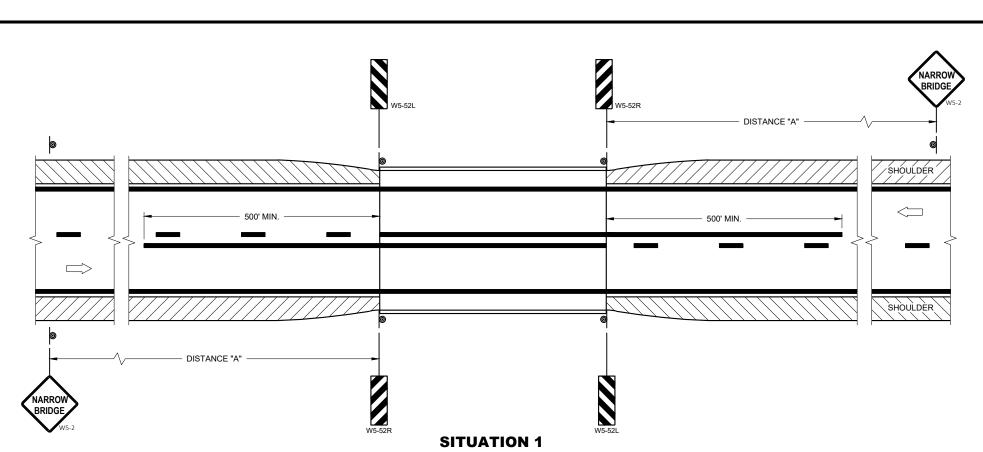
/S/ Andrew Heidtke
WORK ZONE ENGINEER

D15C0

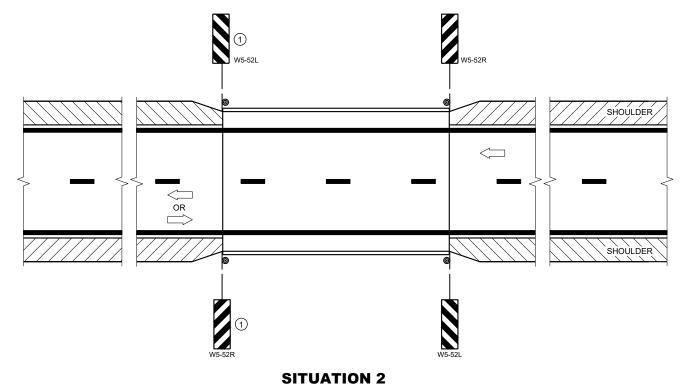
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WARRANTING CRITERIA: BRIDGE WIDTH IS AT LEAST 16 FEET BUT LESS THAN 24 FEET.



SDD

15C06

WARRANTING CRITERIA:

- 1. BRIDGE WIDTH IS AT LEAST 24 FEET AND
- 2. BRIDGE SHOULDER WIDTH IS LESS THAN 6 FEET

GENERAL NOTES

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

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

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

ON BRIDGE ONLY PROJECTS, PLACE 300 FEET OF EDGELINE.

OMIT EDGELINES ON ROADWAYS WITHOUT EXISTING EDGELINES.

(1) OMIT ON ONE-WAY TRAVELED WAYS.

LEGEND

SIGN ON PERMANENT SUPPORT

DIRECTION OF TRAFFIC

DISTANCE TABLE

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

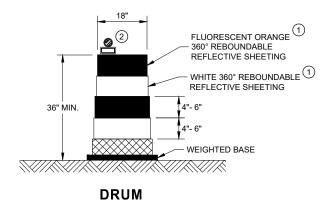
SIGNING AND MARKING FOR TWO LANE BRIDGES

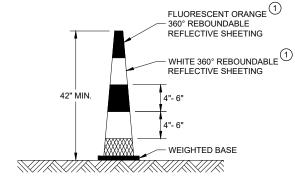
STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION

APPROVED	
May 2022	/S/ Jeannie Silver
DATE	STATE SIGNING AND MARKING
	ENGINEER

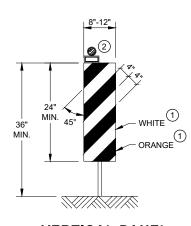
GENERAL NOTES

- (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.

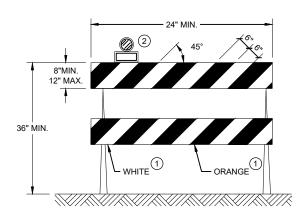




42" CONE DO NOT USE IN TAPERS ½ SPACING OF DRUMS

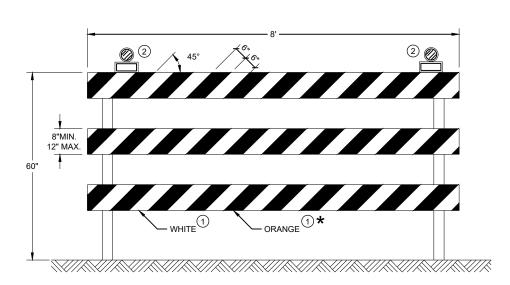


VERTICAL PANEL THE STRIPES SHALL SLOPE DOWNWARD TO THE TRAFFIC SIDE FOR CHANNELIZATION.



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

<u>60</u>

15C

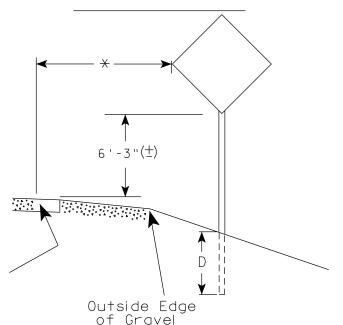
STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION

APPROVED	
May 2021	/S/ Andrew Heidtke
DATE	WORK ZONE ENGINEER
EHWA.	

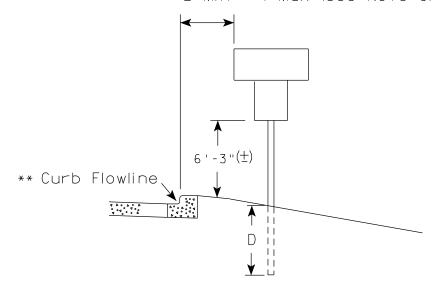
2' Min - 4' Max (See Note 6)

The state of t

White Edgeline Location



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



White Edgeline Location

geline

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

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.

1. Signs wider than 4 feet or 20 sq.ft or larger, shall be mounted on multiple posts. Refer to plate A4-4.

2. If signs are mounted on or behind barrier wall, see A4-10 sign plate.

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

- 3. 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'' ($\frac{+}{2}$).
- 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.

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

Matthew R Rawh

For State Traffic Engineer

DATE 5/13/2020 PLATE NO. A4-3.22

SHEET NO:

Ε

PROJECT NO:

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

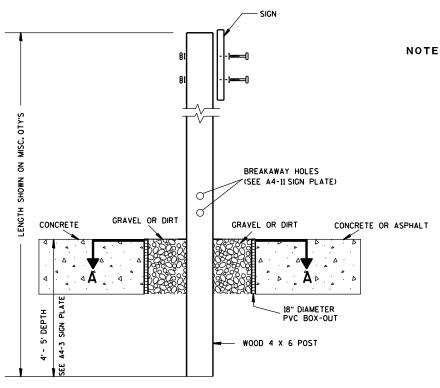
measured from the flow line.

COUNTY: PLOT DATE: 13-MAY 2020 1:04

PLOT BY : mscj9h

PLOT NAME :

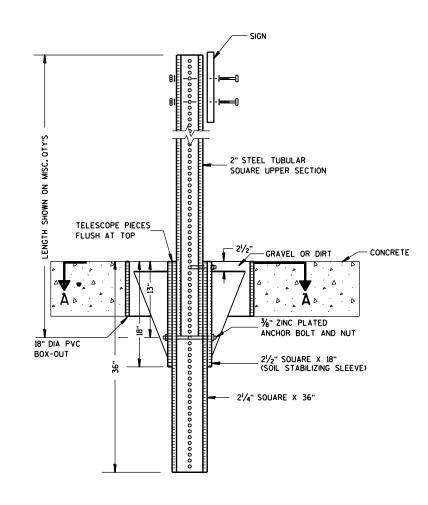
PLOT SCALE: \$\$.....plotscale.....\$\$ WISDOT/CADDS SHEET 42



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.



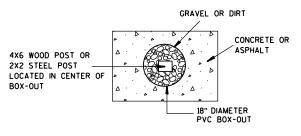
ELEVATION VIEW

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

ELEVATION VIEW

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

- 1. For 3 or 4 post installations, individual post spacing shall be greater than 3'-6".
- 2. See tables below for required number of posts.
- 3. For expressways and freeways, mounting height is 7'-3" (±) or 6'-3" (±) depending upon existence of sub-sign.
- 4. The (±) tolerance for mounting height is 3 inches.
- 5. J-Assemblies are considered to be one sign for mounting height.
- 6. Offset distance shall be consistent with existing signs or consistent throughout length of project.
- 7. Folding signs shall be mounted at a height of 5'-3'' (\pm) 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.
- $\star\star\star$ See A4-3 sign plate for signs 4' or less in width and less than 20 S.F. in area.

POST EMBEDMENT DEPTH

D
(Min)
4'
5'

OF TYPE II SIGNS
ON MULTIPLE POSTS

WISCONSIN DEPT OF TRANSPORTATION

APPROVED

APPROVED

TYPICAL INSTALLATION

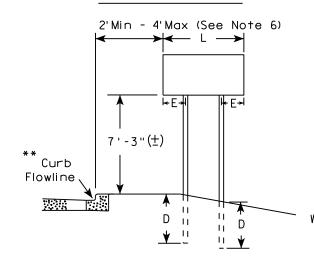
For State Traffic Engineer

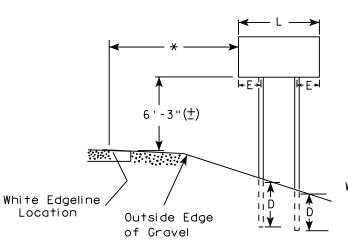
DATE 8/21/17 PLATE NO. A4-4.15

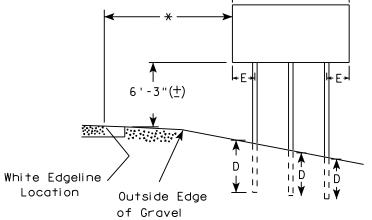
SHEET NO:

URBAN AREA

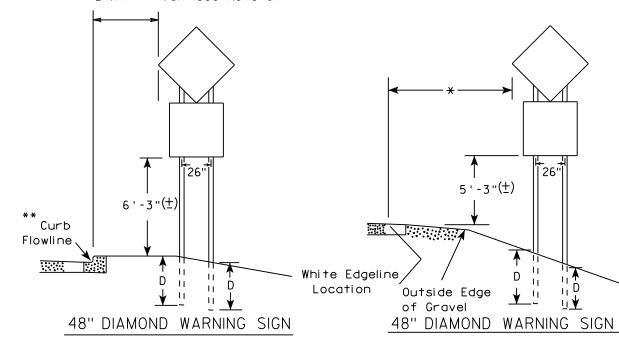
RURAL AREA (See Note 3)







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



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

HWY:

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

COUNTY:

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

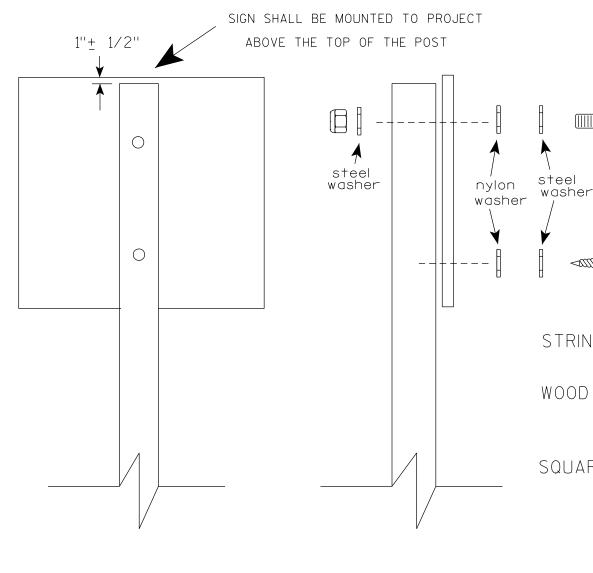
PROJECT NO:

PLOT DATE: 21-AUG-2017 15:54

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

PLOT SCALE: 108.188297:1.000000

WISDOT/CADDS SHEET 42



Nuts, bolts and lags used for mounting signs shall have hexagonal heads and shall be either:

- a. Hot dip galvanized in accordance with ASTM Designation: A 153. Class D. or SC 3
- b. Electro-galvanized in accordance with ASTM Designation: B 633, TYPE III, SC 3.

Threads on bolts and nuts shall be manufactured with sufficient allowance for the cadmium plate or galvanized coating to permit the nuts to run freely on the bolts.

STRINGER BOLTING TO ALUMINUM SIGNS (SEE SIGN PLATE A4-18)

MACHINE BOLTS - $\frac{5}{16}$ " X 1-3/4" Length w/ lock nuts

WOOD POSTS $(4'' \times 6'')$

LAG SCREWS - 3/8" X 3" (NO STRINGERS ON BACK OF SIGN) 3/8" X 4" (STRINGERS ON BACK OF SIGN)

SQUARE STEEL POSTS (2" x 2")

MACHINE BOLTS - 3/8" X 3-1/4" Length w/ nuts (NO STRINGER ON BACK OF SIGN) 3/8" X 5" Length w/ nuts (STRINGERS ON BACK OF SIGN)

RIVETS - 3/32 " (6605-9-6) BULB-TITE. TRI-FOLD. ALUMINUM BODY/MANDREL O.D. FLANGE .720-.765 INCH, GRIP RANGE .042-.375 INCH

WASHERS (ALL POSTS) -

1-1/4" O.D. X $\frac{3}{8}$ " I.D. X $\frac{1}{16}$ " STEEL 1-1/4" O.D. X $\frac{3}{8}$ " I.D. X .080 NYLON

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

ATTACHMENT OF SIGNS TO POSTS

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matther

≠or State Traffic Engineer

SHEET NO:

DATE 4/1/2020

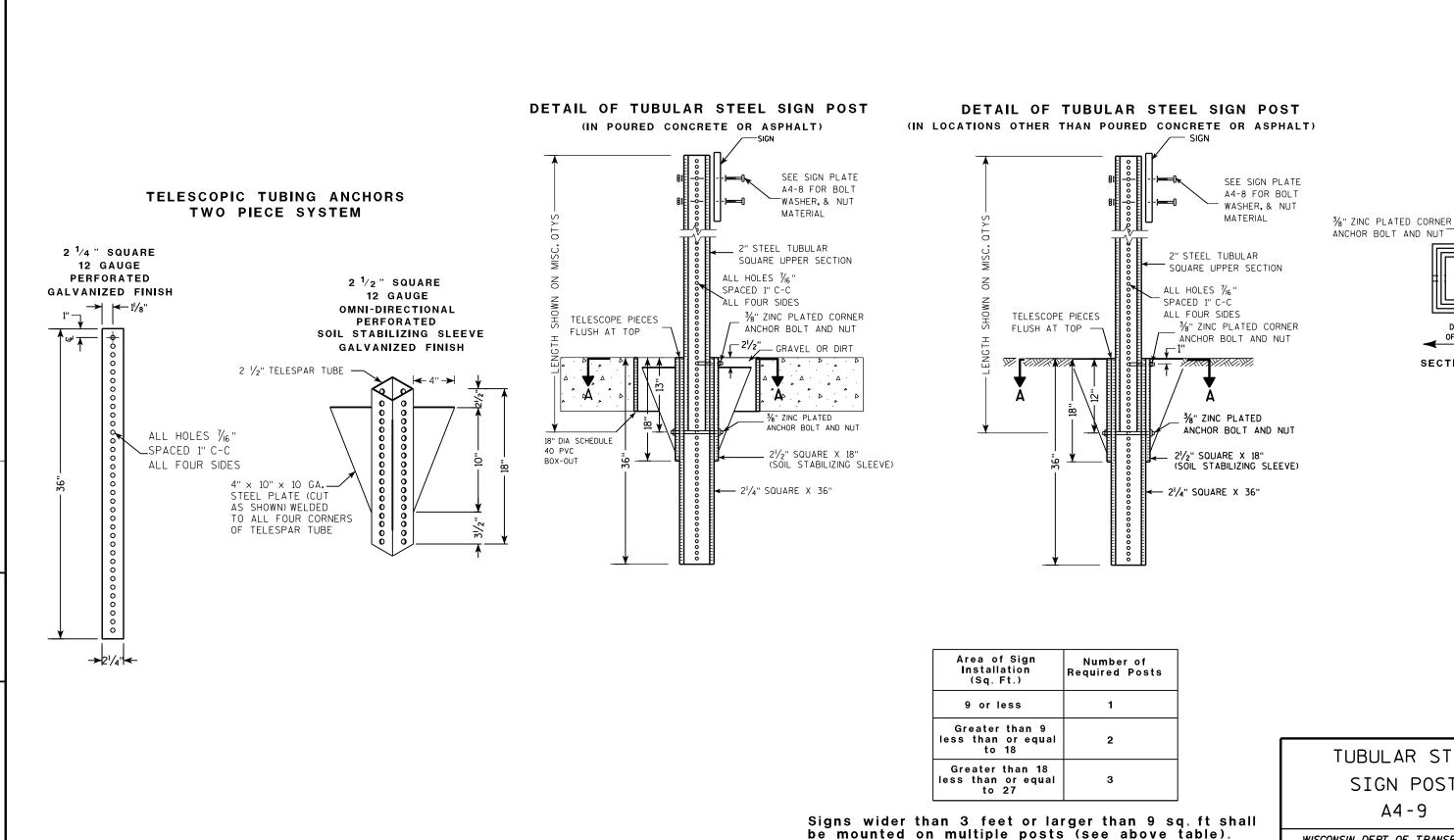
PLATE NO. <u>A4-8.9</u>

PROJECT NO:

PLOT DATE: 01-APRIL-2020

PLOT BY : dotc4c

Ε



TUBULAR STEEL SIGN POST A4-9

WISCONSIN DEPT OF TRANSPORTATION

For State Traffic Engineer DATE 2/05/15 PLATE NO. <u>A4-9.9</u>

SHEET NO:

FILE NAME : C:\CAEFiles\Projects\tr_stdplate\A49.DGN

HWY:

PROJECT NO:

PLOT DATE: 05-FEB-2015 17:09

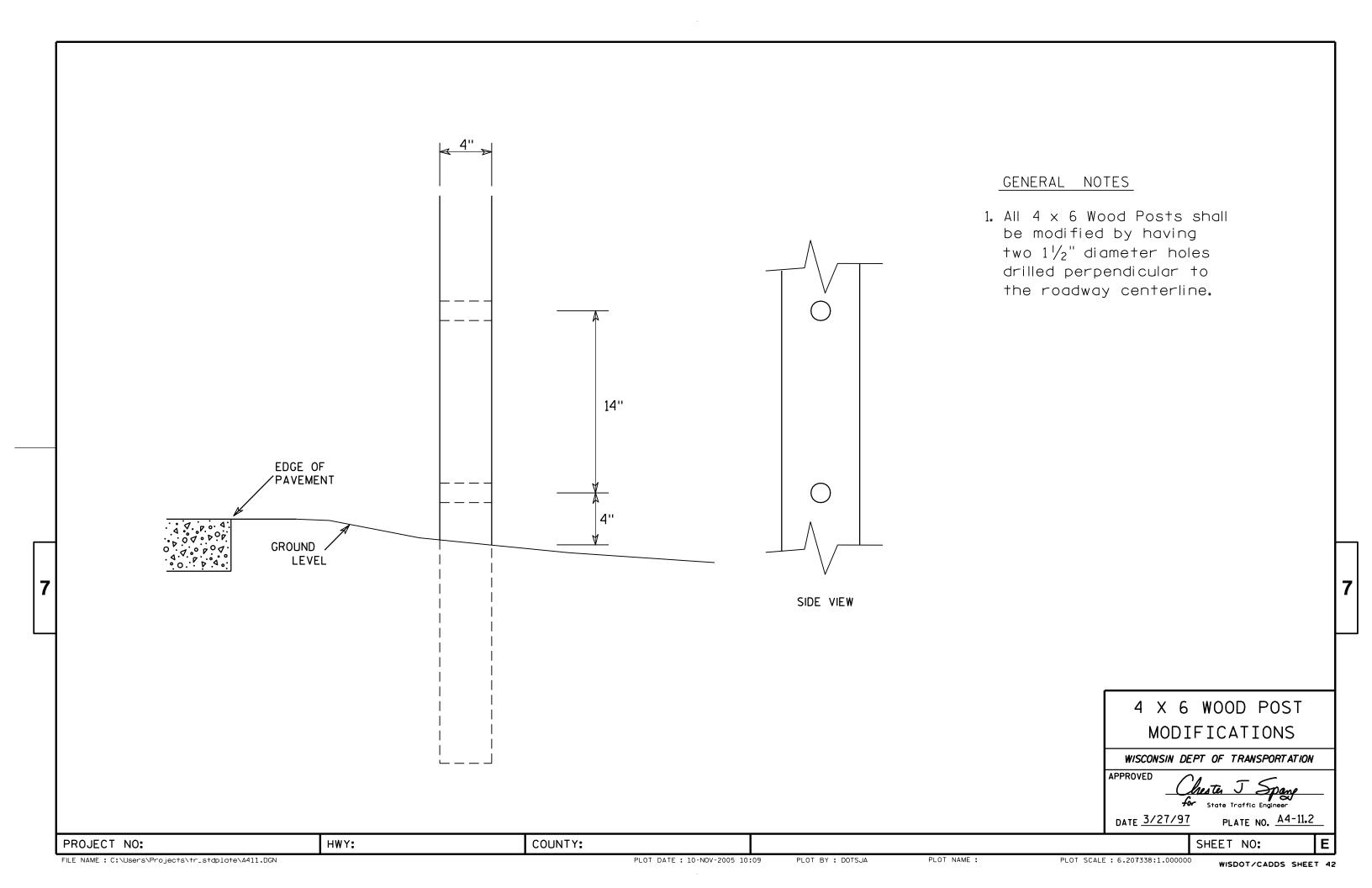
COUNTY:

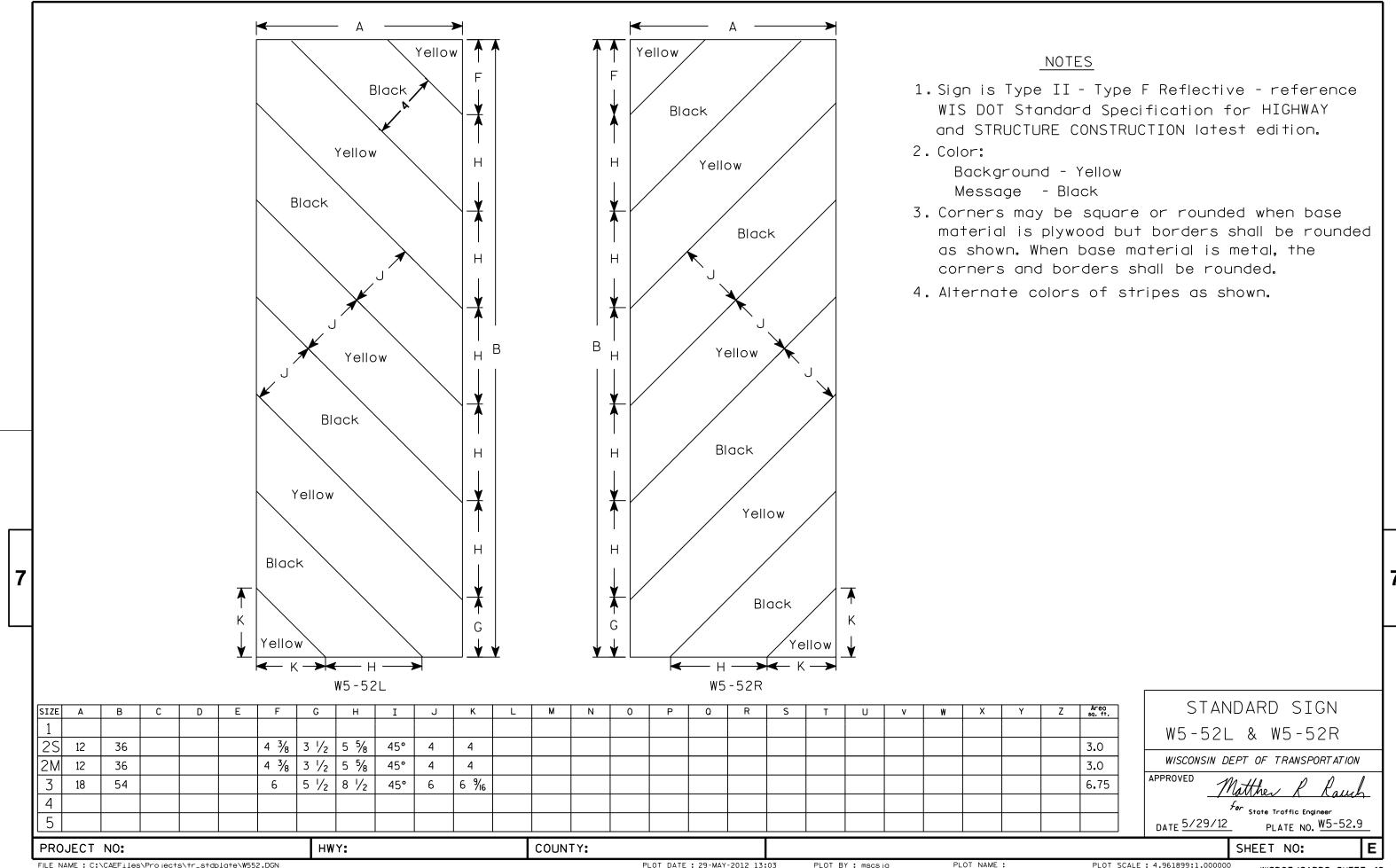
PLOT NAME :

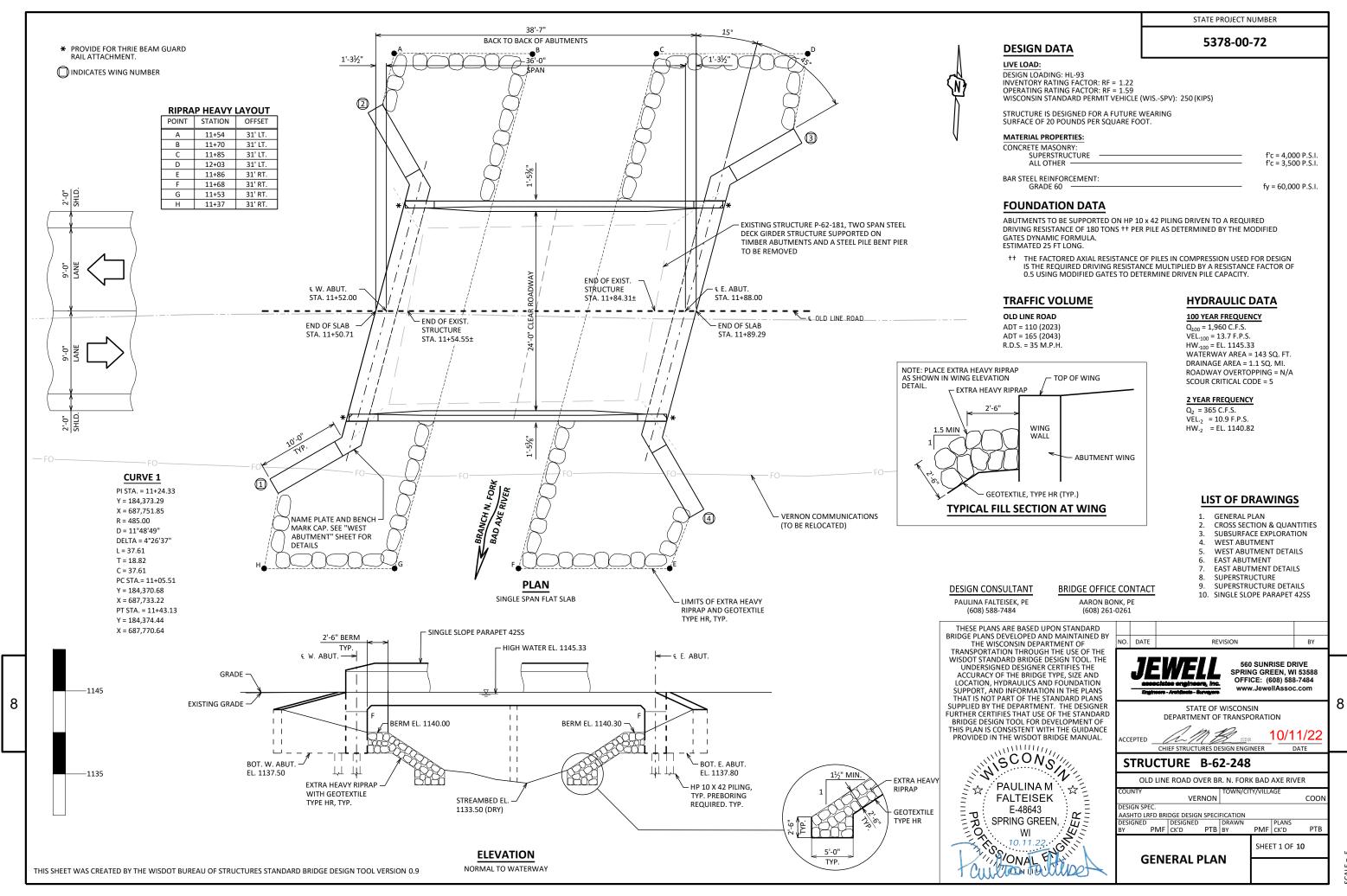
PLOT BY: mscsja

PLOT SCALE: 13.659812:1.000000

SECTION A-A







ALE = 5

GENERAL NOTES

5378-00-72

DRAWINGS SHALL NOT BE SCALED.

2'-0" ABOVE BOTTOM OF ABUTMENT

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

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

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

THE UPPER LIMITS OF "EXCAVATION FOR STRUCTURES B-62-248" SHALL BE THE EXISTING GROUNDLINE.

CONSTRUCTION AND IS NOT OCCUPIED BY THE NEW STRUCTURE SHALL BE BACKFILLED WITH STRUCTURE BACKFILL TYPE A. EXCAVATION BELOW THE ABUTMENT AND ABUTMENT BEDDING MATERIALS REQUIRES ENGINEER APPROVAL. GEOTEXTILE SHALL BE SET AT THE BOTTOM OF EXCAVATION AND EXTEND

AT THE BACK FACE OF ABUTMENT ALL VOLUME WHICH CANNOT BE PLACED BEFORE ABUTMENT

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

THE SLOPE OF THE FILL IN FRONT OF THE ABUTMENTS SHALL BE COVERED WITH HEAVY RIPRAP AND GEOTEXTILE TYPE HR TO THE EXTENT SHOWN ON SHEET 1 AND THE ABUTMENT DETAILS.

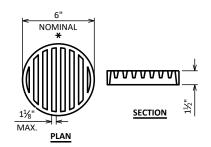
AT ABUTMENTS, CONCRETE POURED UNDER WATER WILL BE ALLOWED AND SHALL BE DONE IN ACCORDANCE WITH SECTION 502.3.5.3 OF THE STANDARD SPECIFICATIONS.

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

APPLY PIGMENTED SURFACE SEALER TO THE INSIDE, TOP, AND END FACES OF PARAPETS.

BENCH MARKS

NO.	STA.	DESCRIPTION	ELEV.
1	9+81	3/4" IRON REBAR SET, 12.0' RT.	1147.74
2	12+10	3/4" IRON REBAR SET, 11.1' LT.	1145.56
3	13+86	3/4" IRON REBAR SET, 16.0' RT.	1150.55
4	11+44	COTTON GIN SPINDLE IN 7" BOX ELDER TREE, 47.7' LT.	1144.00

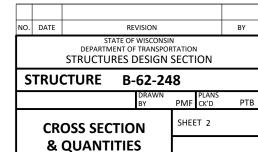


RODENT SHIELD DETAIL

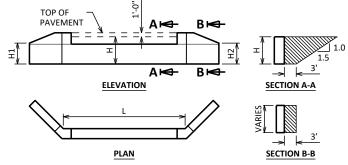
* DIMENSIONS ARE APPROXIMATE. THE GRATE IS SIZED TO FIT INTO A PIPE COUPLING. ORIENT SO SLOTS ARE VERTICAL.

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

THE RODENT SHIELD SHALL BE A PVC GRATE SIMILAR TO THIS DETAIL. THE GRATE IS COMMERCIALLY AVAILABLE AS A FLOOR STRAINER. A PIPE COUPLING IS REQUIRED FOR THE ATTACHMENT OF THIS SHIELD TO THE EXPOSED END OF THE PIPE UNDERDRAIN. THE SHIELD SHALL BE FASTENED TO THE PIPE COUPLING WITH TWO OR MORE NO. 10 X 1-INCH STAINLESS



26'-10¾" OUT TO OUT OF SUPERSTRUCTURE 1'-53/8" 1'-5%" 24'-0" CLEAR BETWEEN BARRIERS 12'-0" 12'-0" SINGLE SLOPE - € OLD LINE ROAD POINT REFERRED -PARAPET 42SS TO ON PROFILE GRADE LINE - TOP OF BERM BOTTOM OF ABUTMENT



ABUTMENT BACKFILL DIAGRAM

= ABUTMENT BODY LENGTH AT BACKFACE (FT)

= AVERAGE ABUTMENT FILL HEIGHT (FT)

= WING 1 HEIGHT AT TIP (FT)

= WING 2 HEIGHT AT TIP (FT) = WING LENGTH (FT)

= EXPANSION FACTOR (1.20 FOR CY BID ITEMS AND 1.00

FOR TON BID ITEMS)

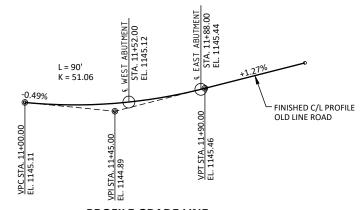
= (L)(3.0')(H) + (L)(0.5)(1.5H)(H) + (3')(0.5)(H1+H2+H+H)(W)

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

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

CROSS SECTION THRU ROADWAY

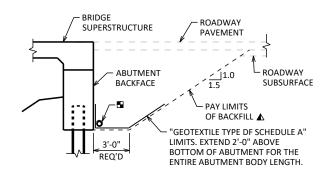
LOOKING UPSTATION (PILING NOT SHOWN FOR CLARITY)



PROFILE GRADE LINE

TOTAL ESTIMATED QUANTITIES

L	BID ITEM NUMBER	BID ITEM DESCRITION	UNIT	SUPER	WEST ABUT.	EAST ABUT.	TOTALS
	203.0220	REMOVING STRUCTURE P-62-181	EACH				1
Γ	206.1001	EXCAVATION FOR STRUCTURES BRIDGES B-62-248	EACH				1
ı	210.1500	BACKFILL STRUCTURE TYPE A	TON		151	151	302
Г	502.0100	CONCRETE MASONRY BRIDGES	CY	75	28	28	131
Г	502.3200	PROTECTIVE SURFACE TREATMENT	SY	103	16	16	135
Г	502.3210	PIGMENTED SURFACE SEALER	SY	38			38
Γ	505.0400	BAR STEEL REINFORCEMENT HS STRUCTURES	LB		2,040	2,040	4,080
Г	505.0600	BAR STEEL REINFORCEMENT HS COATED STRUCTURES	LB	17,120	1,600	1,600	20,320
Ī	516.0500	RUBBERIZED MEMBRANE WATERPROOFING	SY		5	5	10
Г	550.0010	PREBORING UNCONSOLIDATED MATERIALS	LF		90	90	180
Ī	550.1100	PILING STEEL HP 10-INCH X 42 LB	LF		150	150	300
Г	606.0400	RIPRAP EXTRA-HEAVY	CY		90	110	200
Г	612.0406	PIPE UNDERDRAIN WRAPPED 6-INCH	LF		72	72	144
Г	614.0150	ANCHOR ASSEMBLIES FOR STEEL PLATE BEAM GUARD	EACH	4			4
	645.0111	GEOTEXTILE TYPE DF SCHEDULE A	SY		30	30	60
ļ	645.0120	GEOTEXTILE TYPE HR	SY		120	140	260
+		NON-BID ITEMS					
		FILLER	SIZE				1/2", 3/4"

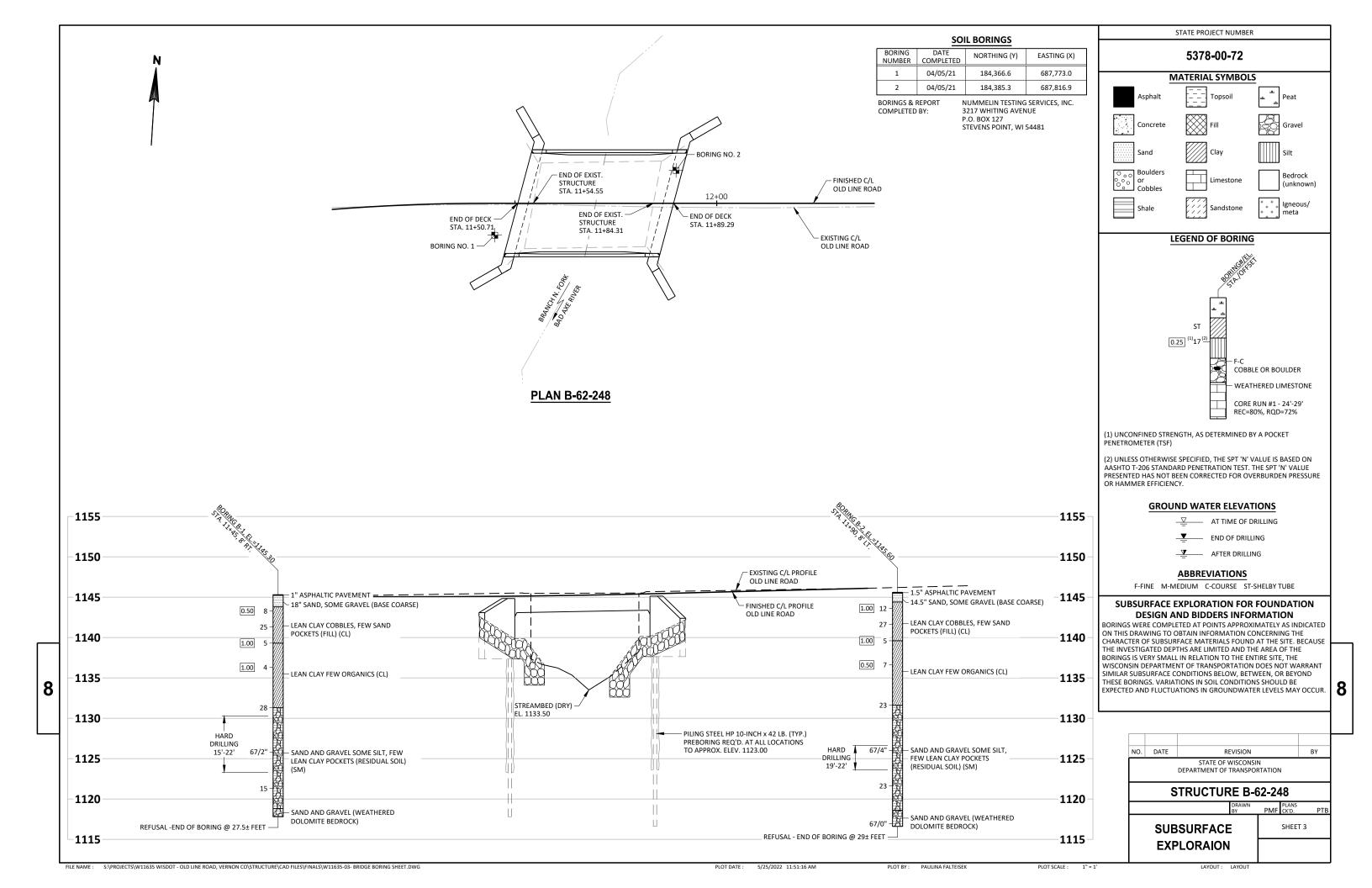


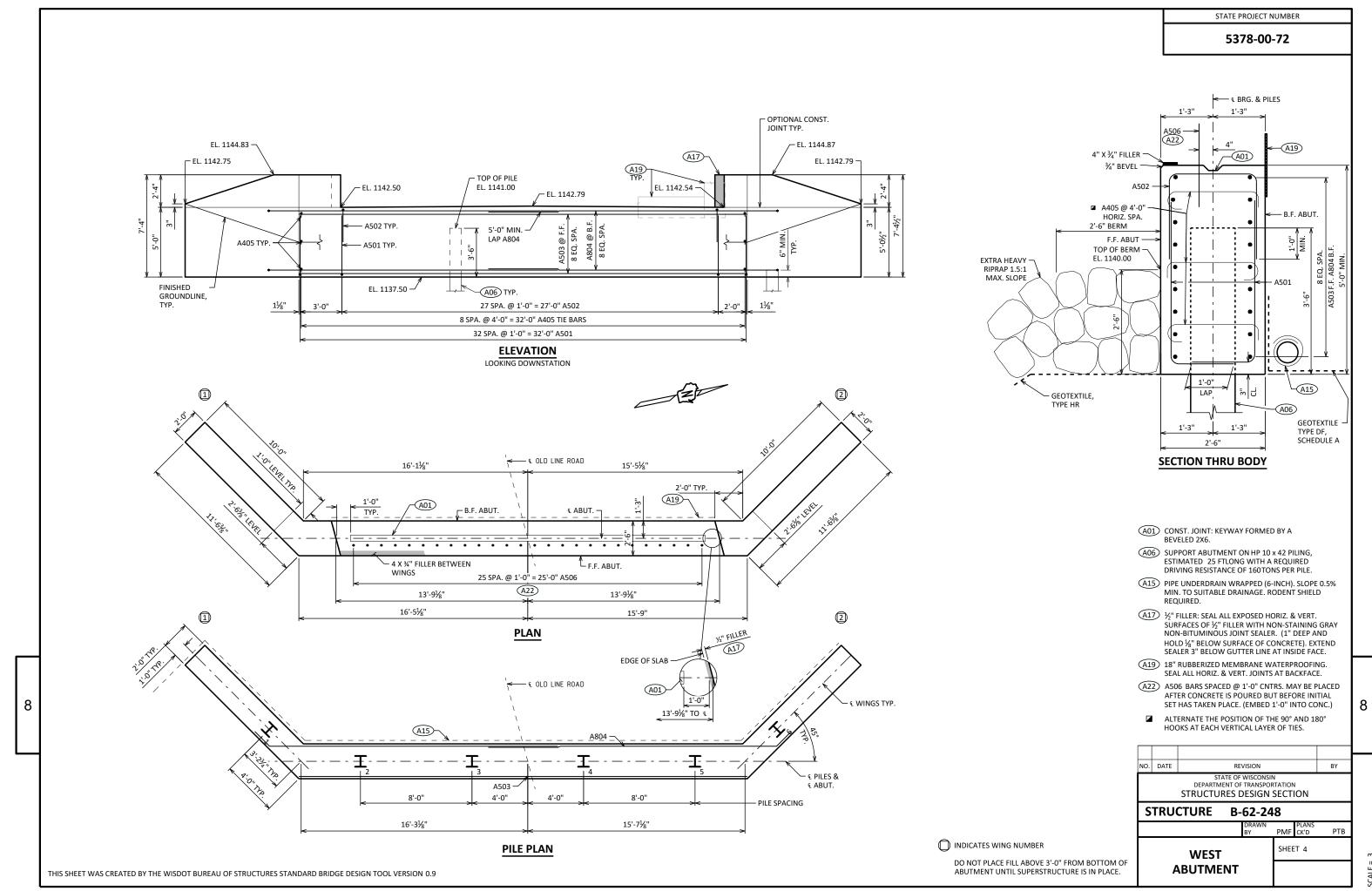
TYPICAL SECTION THRU ABUTMENT

- ▲ BACKFILL PAY LIMITS. BACKFILL BEYOND PAY LIMITS SHALL BE INCIDENTAL TO EXCAVATION FOR STRUCTURES. LIMITS OF EXCAVATION SHALL BE DETERMINED BY THE CONTRACTOR
- PIPE UNDERDRAIN WRAPPED (6-INCH). SLOPE 0.5% MIN. TO SUITABLE DRAINAGE. ATTACH RODENT SHIELD AT ENDS OF PIPE UNDERDRAIN.

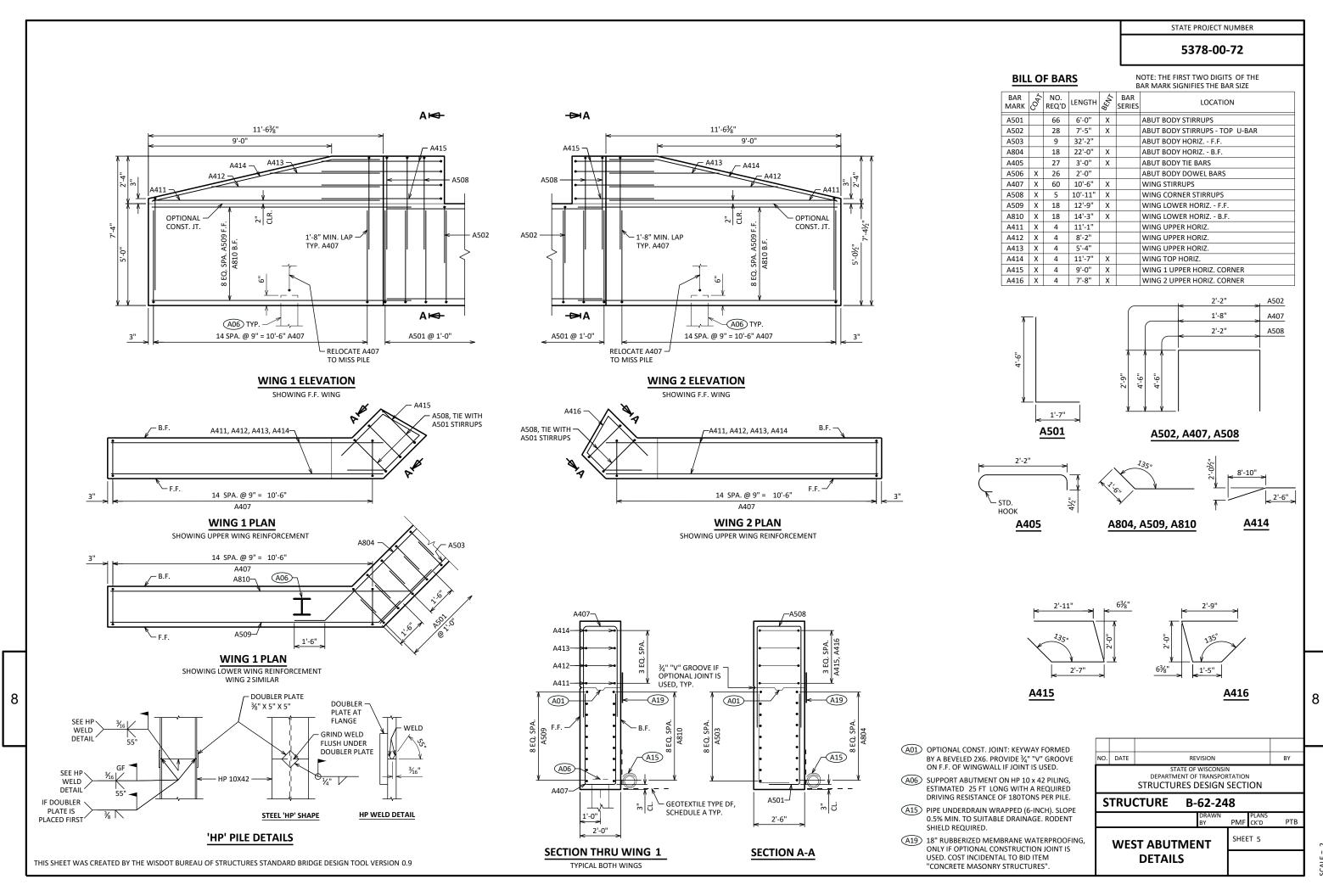
8

STEEL SHEET METAL SCREWS.

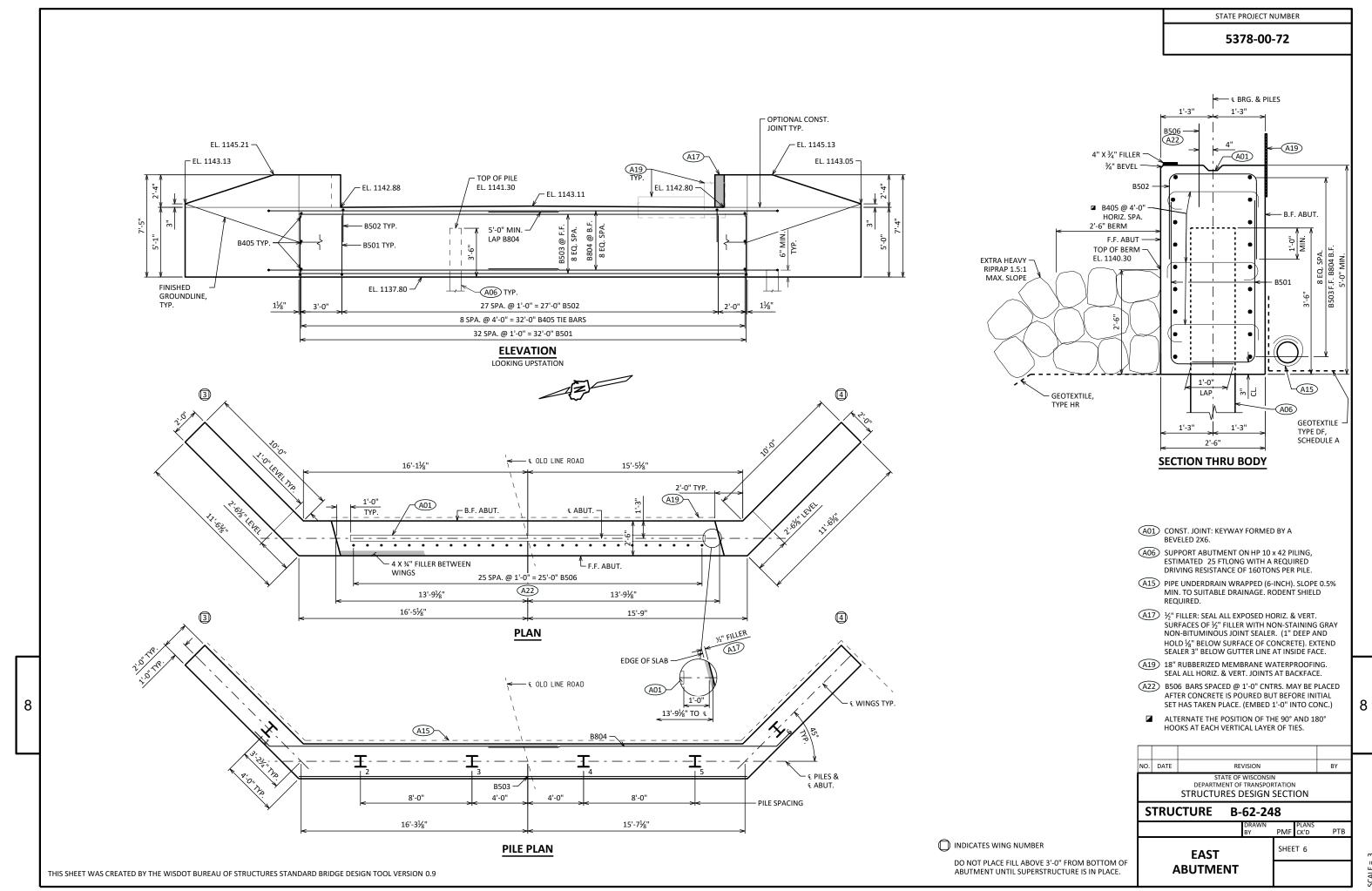




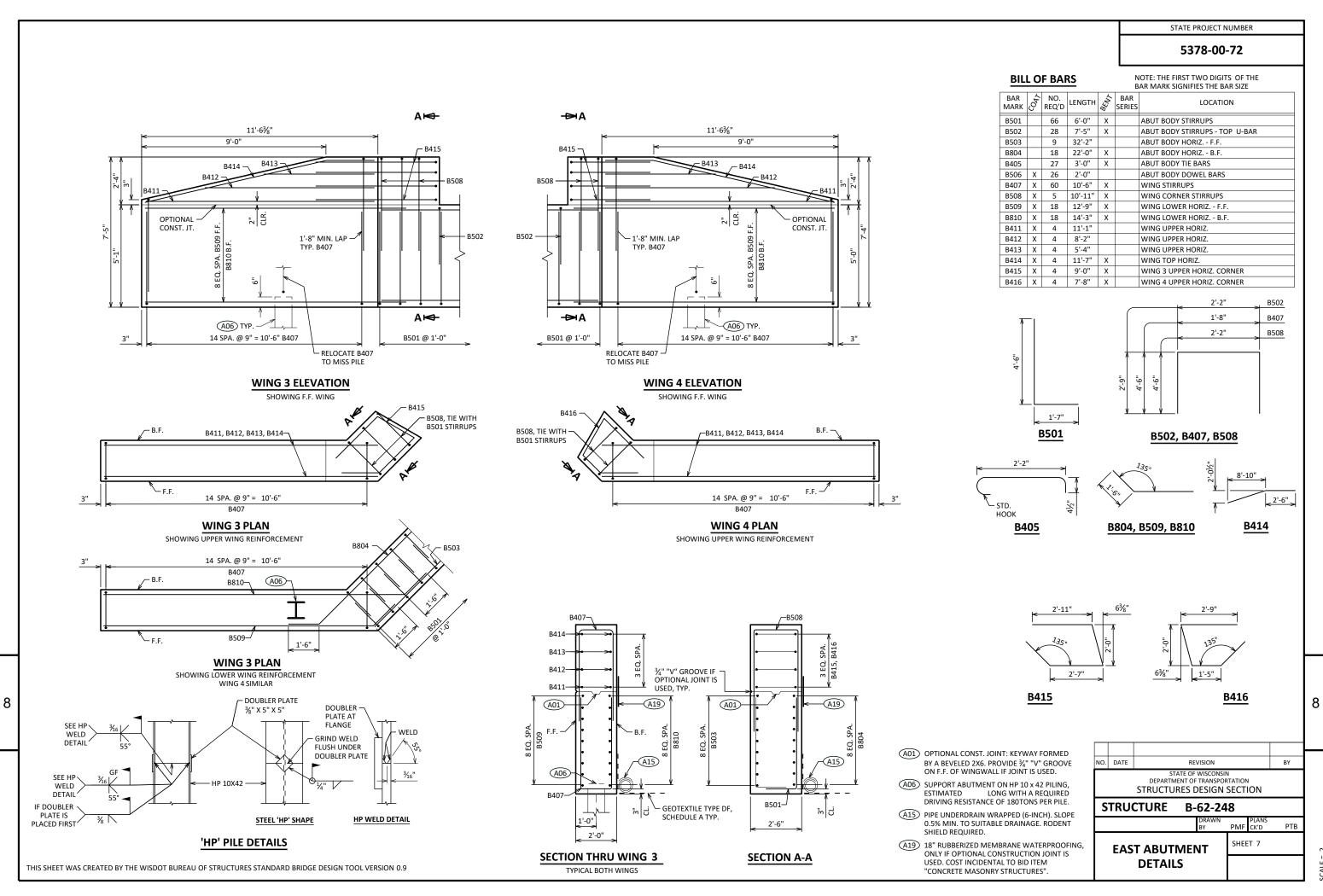
7LE = 3



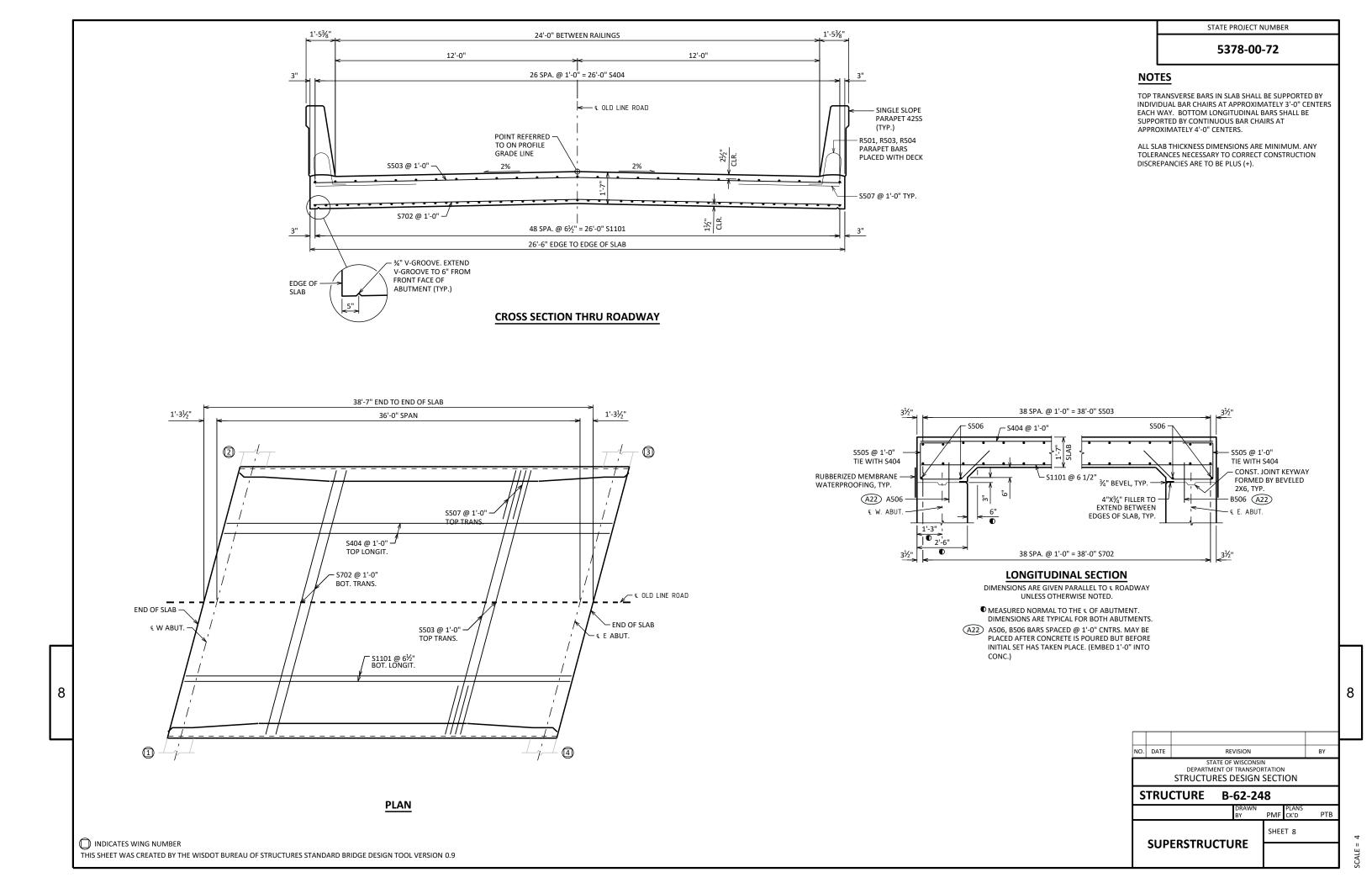
7 - J



7LE = 3



ALE - 2



1.33 IN. <--- CAMBER

BILL OF BARS

NOTE: THE FIRST TWO DIGITS OF THE BAR MARK SIGNIFIES THE BAR SIZE BAR NO. LENGTH & BAR SERIES LOCATION S1101 X 49 38'-3" SLAB BOTTOM LONGITUDINAL S702 X 39 27'-1" SLAB BOTTOM TRANSVERSE S503 X 39 27'-1" SLAB TOP TRANSVERSE S404 X 27 38'-3" SLAB TOP LONGITUDINAL S505 X 54 7'-2" X ABUTMENT DIAPHRAGM STIRRUPS S506 X 4 27'-1" ABUTMENT DIAPHRAGM LONGITUDINAL S507 X 76 5'-0" SLAB TOP EDGE TRANSVERSE

STATE PROJECT NUMBER

5378-00-72

CAMBER AND SLAB THICKNESS DIAGRAM

1.40 IN.

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 THICKNESS

PLUS

8

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

← SLAB THICKNESS

TOP OF SLAB ELEVATIONS

	€ BRG. W. ABUT.	1/10	2/10	3/10	4/10	5/10	6/10	7/10	8/10	9/10	€ BRG. E . ABUT.
N . EDGE OF DECK	1144.87	1144.89	1144.92	1144.95	1144.98	1145.01	1145.05	1145.08	1145.12	1145.17	1145.21
CROWN OR €	1145.12	1145.14	1145.16	1145.19	1145.22	1145.25	1145.28	1145.32	1145.35	1145.39	1145.44
S . EDGE OF DECK	1144.83	1144.85	1144.87	1144.89	1144.92	1144.95	1144.98	1145.01	1145.05	1145.08	1145.13

SURVEY TOP OF SLAB ELEVATIONS

L		<u>ABUTMENT</u>	<u>5/10 PT.</u>	<u>ABUTMENT</u>
F	N. GUTTER			
ľ	CROWN OR €			
	S. GUTTER			

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

> NO. DATE BY STATE OF WISCONSIN
> DEPARTMENT OF TRANSPORTATION STRUCTURES DESIGN SECTION

> > PLANS PMF CK'D SHEET 9

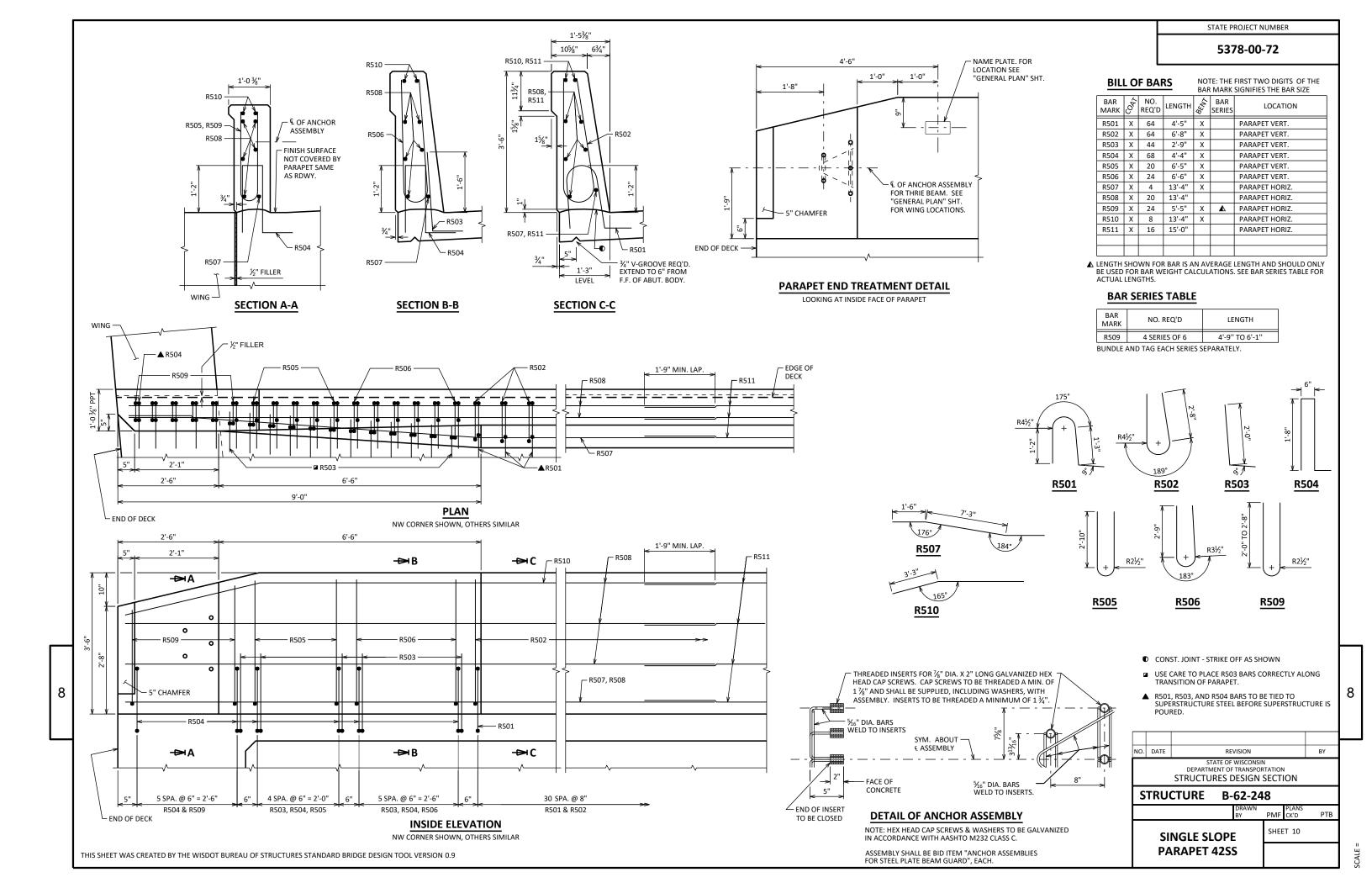
STRUCTURE B-62-248

SUPERSTRUCTURE

DETAILS

THIS SHEET WAS CREATED BY THE WISDOT BUREAU OF STRUCTURES STANDARD BRIDGE DESIGN TOOL VERSION 0.9

8



EARTHWORK- OLD LINE ROAD

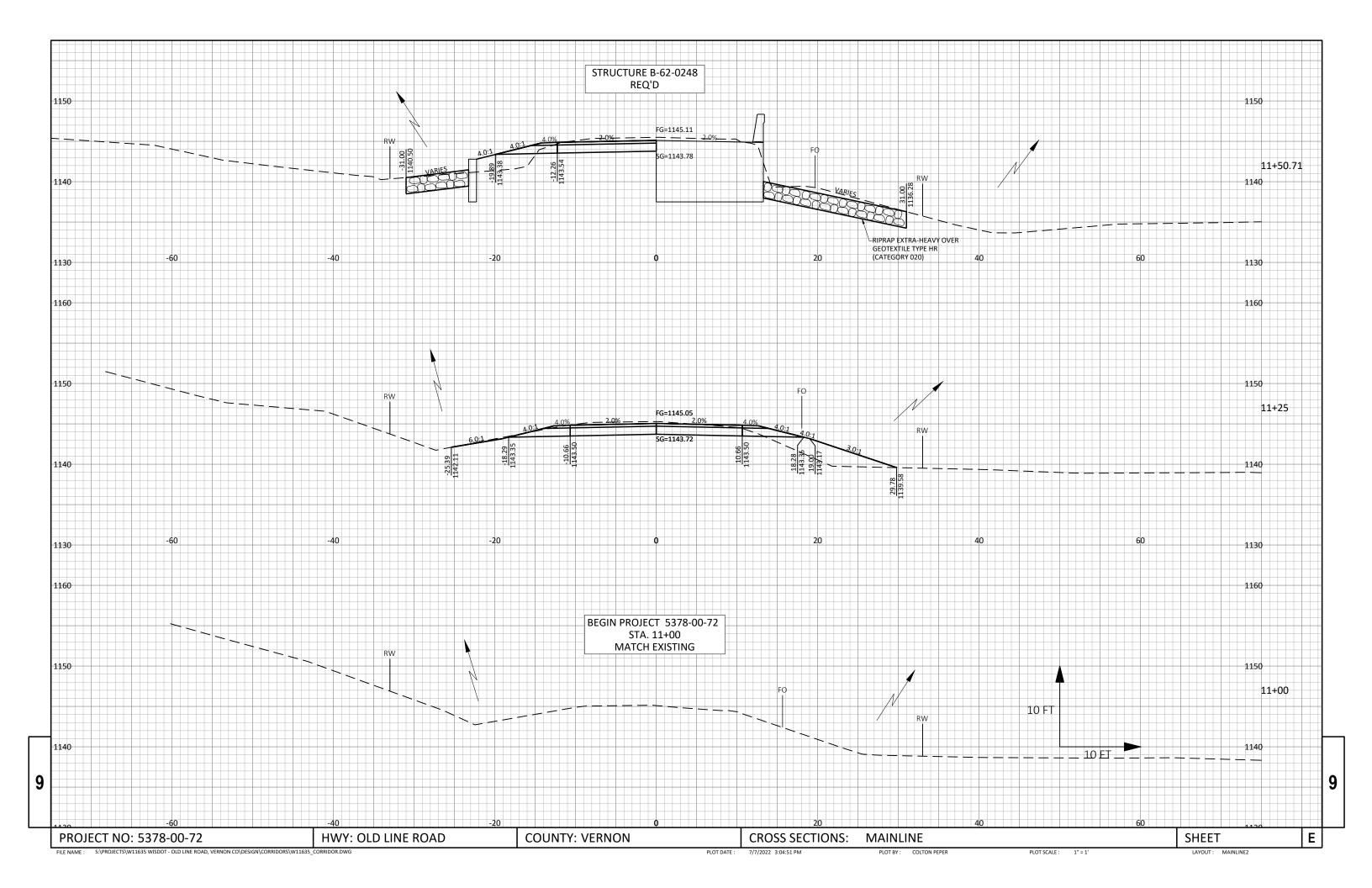
	AREA (S	F)	INCREME	NTAL VOL (CY)	CUMMULATIVE	OLUME (CY)	
STATION	CUT	FILL	CUT NOTE 1	FILL NOTE 2	FILL (25%) NOTE 3	CUT 1.00 NOTE 1	FILL	FILL (25%) NOTE 3	MASS ORDINATE NOTE 4
11+00	0	0	16	11	14	26	20	25	1
11+25	38	23	35	22	29	61	42	54	7
11+50	38	23	14	4	5	75	46	59	16
11+90	37	11	34	10	13	109	56	72	38
11.25	37	11	11	3	4	120	59	75	45
11+50	0	0	0	0	0	120	59	75	45

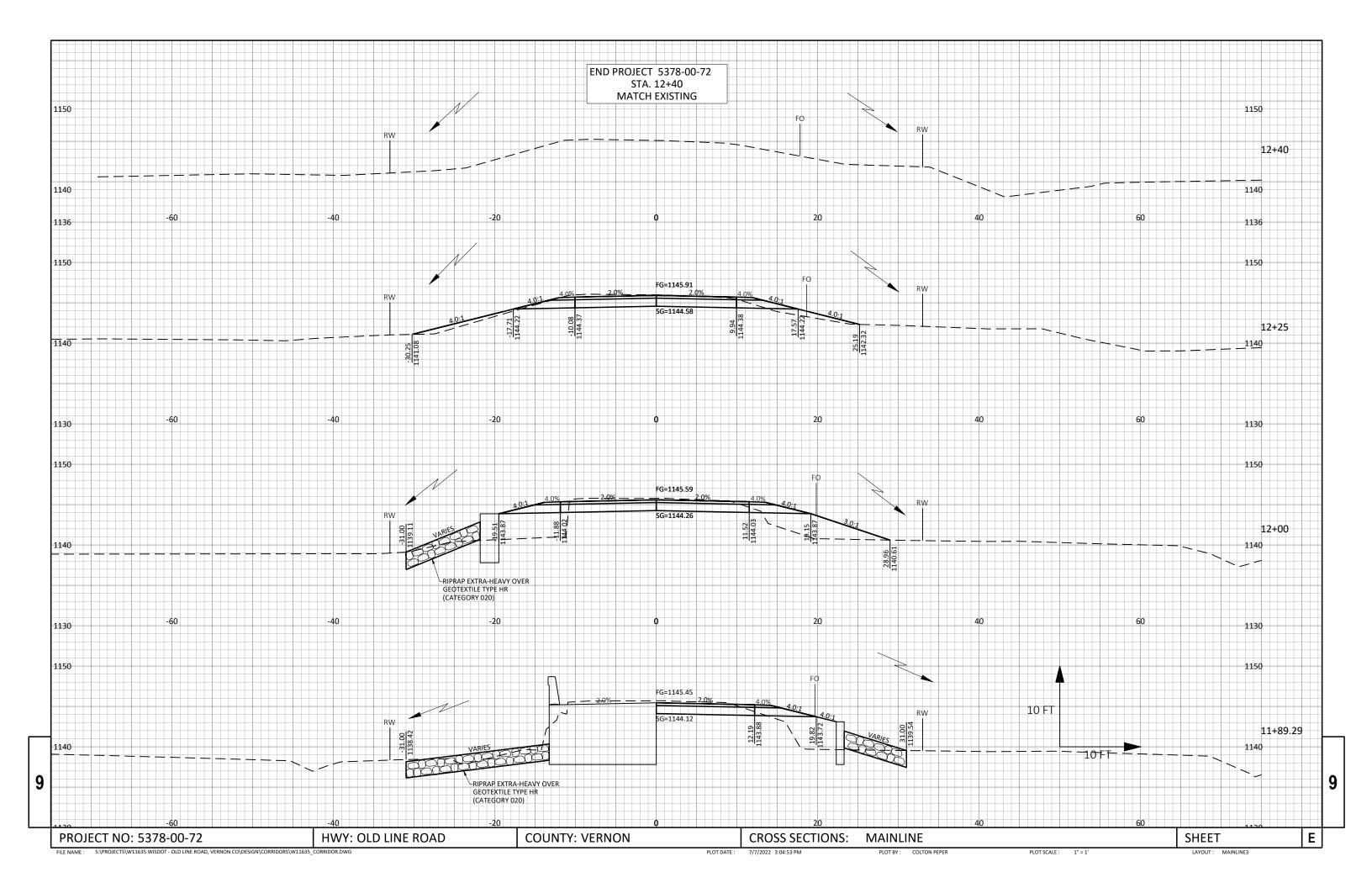
NOTES:	
1 - CUT	CUT INCLUDES SALVAGED/UNUSABLE PAVEMENT MATERIAL
2-FILL	DOES NOT INCLUDE UNUSABLE PAVEMENT EXC VOLUME
3 - FILL 25%	(UNEXPANDED FILL)*1.25
4 - MASS ORDINATE	CUT + ROCK (10%) +REDUCED MARSH (60%) - FILL (25%)

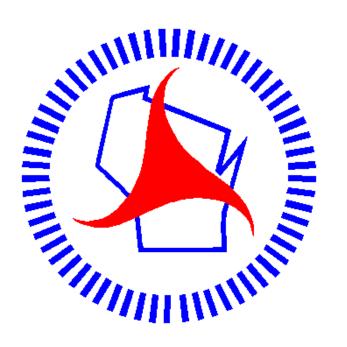
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S

PROJECT NO: 5378-00-72 HWY: OLD LINE ROAD COUNTY: VERNON EARTHWORK SHEET **E**







Wisconsin Department of Transportation

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