JULY 2018

Section No.

Section No.

Section No. Section No.

Section No.

Section No.

Section No. Section No. Section No.

Section No.

TOTAL SHEETS =

ORDER OF SHEETS

Typical Sections and Details Estimate of Quantities

Plan and Profile (includes Erosion Control Plan)

Miscellaneous Quantities

Computer Earthwork Data

Right of Way Plat

Cross Sections

48

DESIGN DESIGNATION 5378-00-71

CONVENTIONAL SYMBOLS

LIMITED HIGHWAY EASEMENT EXISTING RIGHT OF WAY

PROPOSED OR NEW R/W LINE

2018 = 80

2038 = 103

== 50/50

= 25 MPH

= 2500

PROFILE

GRADE LINE

ORIGINAL GROUND

GRADE ELEVATION

UTILITIES

ELECTRIC

FIBER OPTIC

SANITARY SEWER

TELEPHONE POLE

STORM SEWER

CULVERT (Profile View)

MARSH OR ROCK PROFILE (To be noted as such) SPECIAL DITCH

A.A.D.T.

A.A.D.T.

DESIGN SPEED

CORPORATE LIMITS

PROPERTY LINE

SLOPE INTERCEPT

REFERENCE LINE

EXISTING CULVERT

PROPOSED CULVERT (Box or Pipe)

COMBUSTIBLE FLUIDS

WOODED OR SHRUB AREA

MARSH AREA

D.H.V.

D.D.

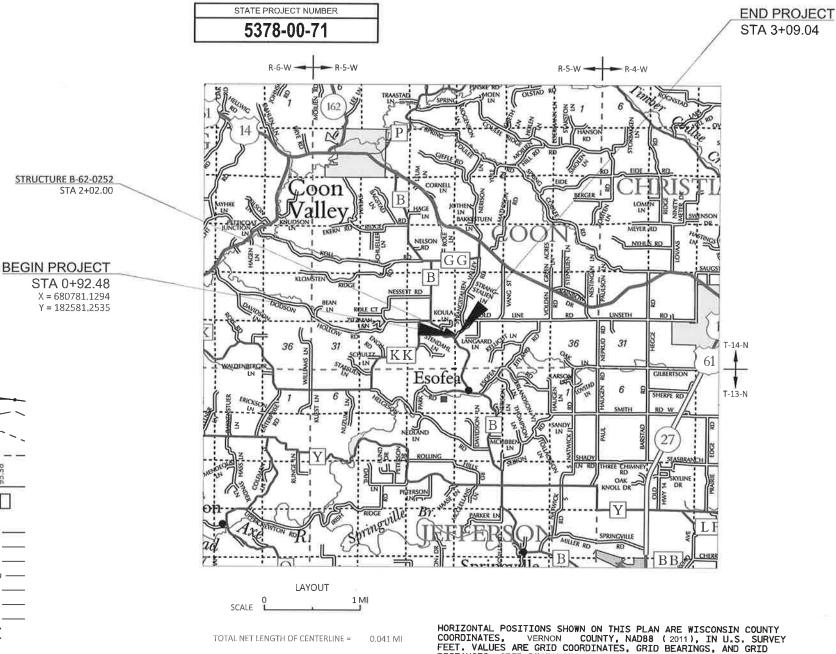
STATE OF WISCONSIN **DEPARTMENT OF TRANSPORTATION**

PLAN OF PROPOSED IMPROVEMENT

TOWN OF COON, OLD LINE ROAD

(BRANCH NORTH FORK BAD AXE RIVER BRIDGE B-62-0252)

TOWN ROAD VERNON COUNTY



FEDERAL PROJECT STATE PROJECT PROJECT CONTRACT 5378-00-71

STA 3+09.04

TOWN OF COON

ACCEPTED FOR

ACCEPTED FOR

VERNON COUNTY

ORIGINAL PLANS PREPARED BY



STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION

REPARED BY

DISTANCES. GRID DISTANCES MAY BE USED AS GROUND DISTANCES.

GENERAL NOTES

ELEVATIONS SHOWN ON THE PLAN ARE REFERENCED TO THE NORTH AMERICAN VERTICAL DATUM OF 1983.

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

WHEN THE QUANTITY OF BASE AGGREGATE OR SURFACE COURSE IS MEASURED FOR PAYMENT BY THE TON, THE DEPTH OR THICKNESS OF THE LAYER SHOWN ON THE PLANS IS APPROXIMATE AND THE ACTUAL THICKNESS WILL DEPEND ON THE DISTRIBUTION OF THE MATERIAL AS DIRECTED BY THE ENGINEER.

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

DISTURBED AREAS WITHIN THE RIGHT-OF-WAY SHALL BE FINISHED WITH 6" SALVAGED TOPSOIL, SEED, FERTILIZER, MULCH, AND RESTORED AS DIRECTED BY THE ENGINEER.

DNR CONTACT

DEPARTMENT OF NATURAL RESOURCES KAREN KALVELAGE 3550 MORMON COULEE ROAD LA CROSSE, WISCONSIN 54601 PHONE: (608) 785-9115

EMAIL: KAREN.KALVELAGE@WISCONSIN.GOV

**DENOTES UTILITIES THAT ARE NOT DIGGERS

www.DiggersHotline.com

UTILITY CONTACTS

VERNON COMMUNICATIONS COOPERATIVE (VTC01) TODD TUNKS 214 NORTH MAIN STREET VIROQUA, WISCONSIN 54665

PHONE: (608) 632-0615 EMAIL: TTUNKS@VERNONCOM.COOP

VERNON ELECTRIC COOPERATIVE (VEC01) CRAIG BUROS 110 SAUGSTAD ROAD

> WESTBY, WISCONSIN 54667 PHONE: (608) 634-3121

EMAIL: CBUROS@VERNONELECTRIC.ORG

PROJECT SPONSOR

VERNON COUNTY PHIL HEWITT - HIGHWAY COMMISSIONER 602 NORTH MAIN STREET VIROQUA, WISCONSIN 54669 PHONE: (608) 637-5452

EMAIL: VCHD@VERNONCOUNTY.ORG

POINT REFERRED TO ON PROFILE

EMAIL: CBLACK@SRFCONSULTING.COM

DESIGN CONTACT

SRF CONSULTING GROUP, INC. CASEY BLACK 901 DEMING WAY SUITE 101 MADISON, WISCONSIN 53711 PHONE: (608) 298-5400

ABBREVIATIONS

HYD

INI

INV

ΙT

THE

IN DIA

Hydrant

Inlet

Invert

Left

Inch Diameter

Intersection Angle

Left-Hand Forward

Iron Pipe or Pin

ABUT Abutment Length of Curve Acre LF Linear Foot AGG SPECS Aggregate LC Long Chord of Curve Angle LS Lump Sum AADT Annual Average Daily Traffic MAINT Maintenance **ASPH** ML or M/L Match Line STD Asphaltic AVG SDD Average ΙΤΑΝ Material BL Base Line NOM Nominal STH BM Bench Mark NC Normal Crown STA BR Bridge SSD NW or N/W Normal Water CL Center Line North STR Δ Central Angle or Delta North Grid Coordinate SE CH Chord SURF NB Northbound CONC Concrete NO Number SL or S/L CO County OBLIT Obliterate CTH County Trunk Highway TEL OL Out Lot CR Creek **TEMP** OD Outside Diameter CR Crushed PSD Passing Sight Distance TLE CY Cubic Yard PAVT Pavement D Degree of Curve PERM T or TN Permanent Design Hour Volume DHV PLE Permanent Limited Easement DD Directional PT TYP Point DWY Driveway PC Point of Curvature UG East Ы Point of Intersection USH Fast Grid Coordinate PT Point of Tangency VAR EB Eastbound LB Pound ELEC Electric (al) PR∩I VERT Project FL or FLFV Flevation Property Line VC ESALS Equivalent Single Axle Radius VPC Loads Radius Point VPI EXC Excavation Range VPT EBS Excavation Below Subgrade RL Reference Line VOL EXIST Existing Reference Point W EXP Expansion RFBAR Reinforcement Bai W FERT Fertilize REINF Reinforcing or W Fill Reinforcement WB FG Finished Grade RFI ΥD Relocate FL or F/I Flow Line **RFM** Remaining FT Foot REQD Required FTG Footing RT Right HT Height RHF Right-Hand Forward CWT Hundredweigh R/W Right-of-Way

River

Road

Roadway

Salvaged

Section

South

Shoulder

Shrinkage

RD

RDWY

SALV

SEC

SHR

SHIDR

SB Southbound Special Specifications SF or SQ FT Square Feet SY or SQ YD Square Yard Standard Standard Detail Drawings State Trunk Highways Station Stopping Sight Distance Structure or Structural Superelevation Surface Survey Line Tangent Telephone Temporary Temporary Limited Easement Town Trucks (percent of) Typical Underground

United States Highway Variable Velocity or Design Speed Vertical Vertical Curve Vertical Point of Curve Vertical Point of Intersection Vertical Point of Tangency Volume Water

Yard

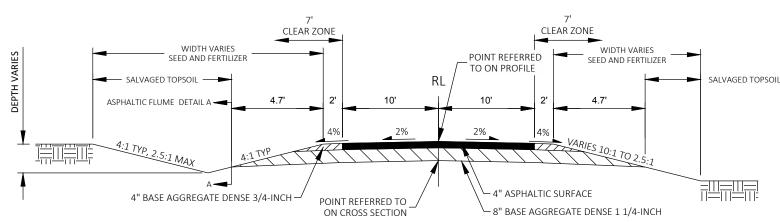
Well West Westbound

VARIES, 2:1 MAX CRUSHED AGGREGATE BASE COURSF -DEPTH VARIES

10' 10' VARIES 10:1 TO 3.4: 1 VARIES 1-1.5" HMA PAVEMENT 22" CRUSHED AGGREGATE BASE COURSE

RL

TYPICAL EXISTING SECTION STA 0+92.48 TO 3+09.04



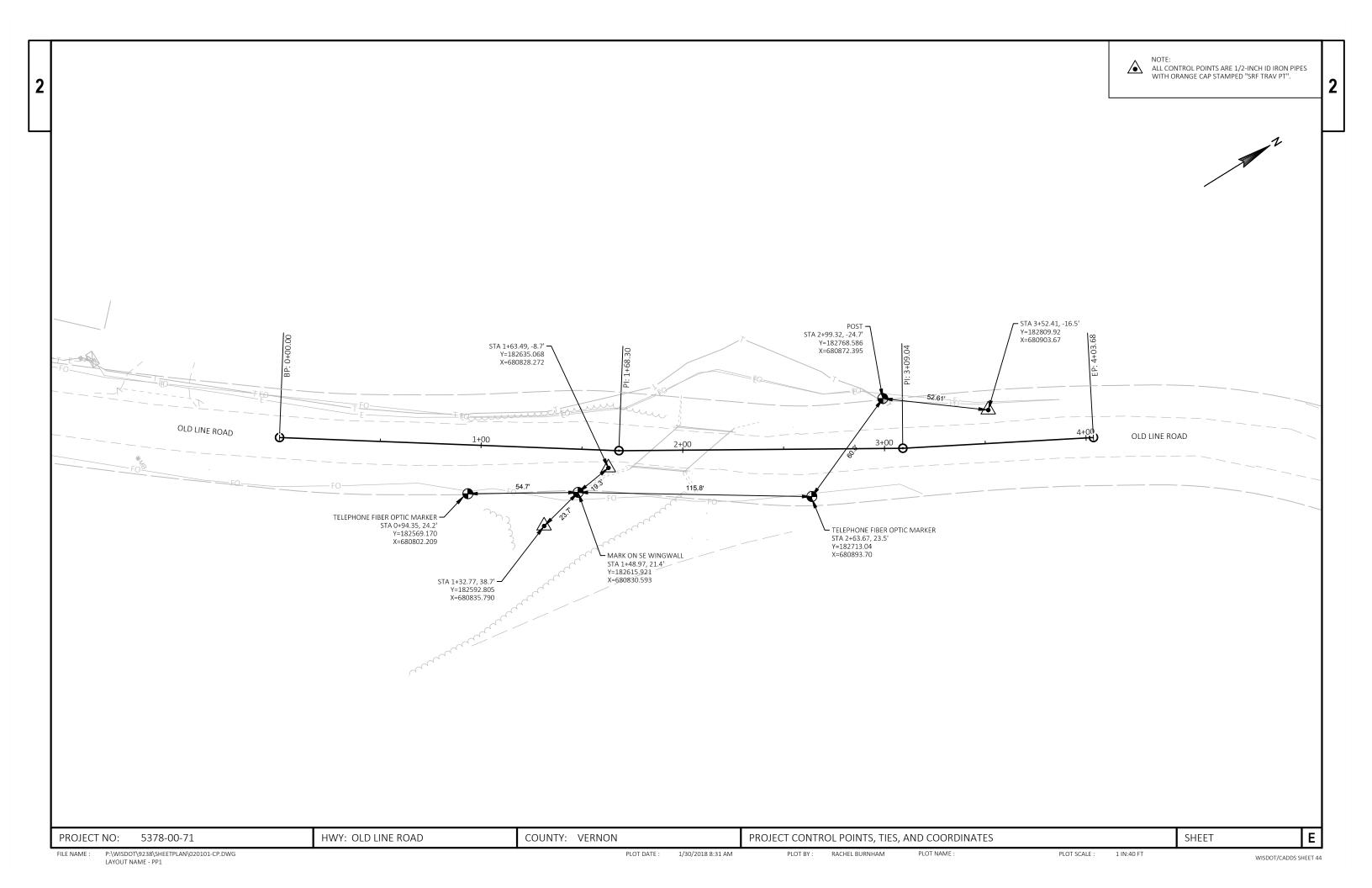
WIDTH VARIES
SALVAGED TOPSOIL, SEED, FERTILIZER AND MULCH **ASPHALTIC FLUME** STA 0+92.48 - 1+30.00 2" ASPHALTIC FLUME

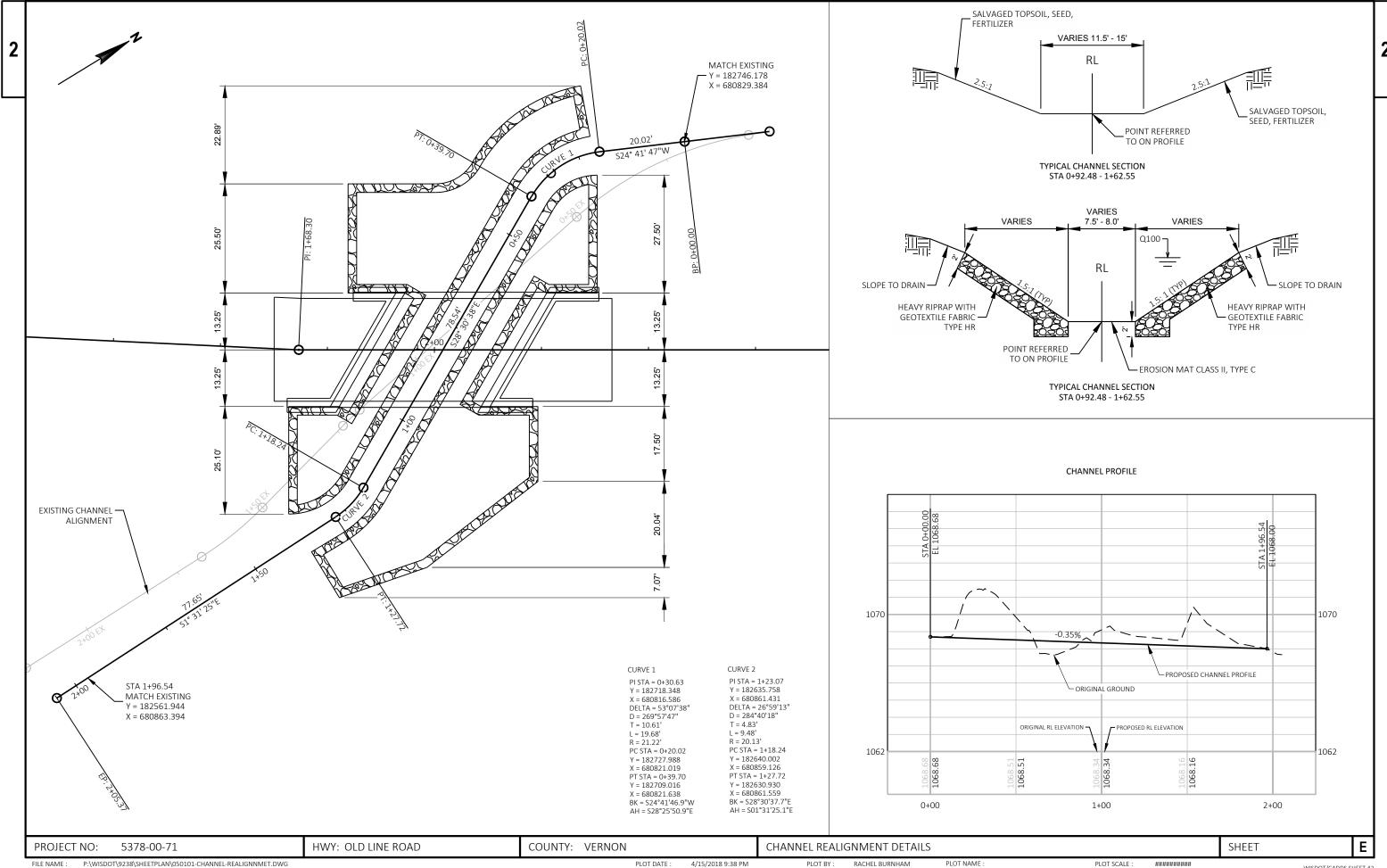
TYPICAL FINISHED SECTION STA 0+92.48 - 1+62.55 STA 2+41.45 - 3+09.04

BRIDGE APPROACH SLAB STA 1+62.55 - STA 1+84.00 STA 2+20.00 - STA 2+41.45

TYPICAL SECTIONS FOR CHANNEL CHANGE SHOWN ON CHANNEL REALIGNMENT DETAIL

Ε PROJECT NO: 5378-00-71 HWY: OLD LINE ROAD COUNTY: VERNON **GENERAL NOTES AND TYPICAL SECTIONS SHEET** RACHEL BURNHAM P:\WISDOT\9238\SHEETPLAN\010101-TI.DWG PLOT DATE: 4/15/2018 8:18 PM PLOT BY: PLOT NAME PLOT SCALE: 1 IN:10 FT FILE NAME WISDOT/CADDS SHEET 42





E NAME : P:\WISDOT\9238\SHEETPLAN\050101-CHANNEL-REALIGNNMET.DWG PLOT DATE : 4/15/2018 9:38 PM PLOT BY : RACHEL BURNHAM PLOT NAME : ########## WISDOT/CADDS SHEET 42

LAYOUT NAME - Plan 1 IN 20 FT WISDOT\9238\SHEETPLAN\050101-CHANNEL-REALIGNNMET.DWG WISDOT\9238\SHEET 42

Page 1

					5378-00-71
Line	Item	Item Description	Unit	Total	Qty
0002	201.0105	Clearing	STA	2.000	2.000
0002	201.0105	Grubbing	STA	2.000	2.000
0004	203.0500.S	Removing Old Structure Over Waterway (station) 01. 2+02.00	LS	1.000	1.000
8000	205.0100	Excavation Common	CY	398.000	398.000
0010	206.1000	Excavation for Structures Bridges (structure) 01. B-62-0252	LS	1.000	1.000
0012	210.1500	Backfill Structure Type A	TON	328.000	328.000
0014	213.0100	Finishing Roadway (project) 01. 5378-00-71	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	207.000	207.000
0020	415.0080	Concrete Pavement 8-Inch	SY	24.000	24.000
0022	415.0410	Concrete Pavement Approach Slab	SY	112.000	112.000
0024	450.4000	HMA Cold Weather Paving	TON	76.000	76.000
0026	455.0605	Tack Coat	GAL	21.000	21.000
0028	465.0105	Asphaltic Surface	TON	67.000	67.000
0030	465.0315	Asphaltic Flumes	SY	9.000	9.000
0032	502.0100	Concrete Masonry Bridges	CY	143.000	143.000
0032	502.3200	Protective Surface Treatment	SY	100.000	100.000
0034	502.3200	Pigmented Surface Sealer	SY	48.000	48.000
0038	502.3210	Bar Steel Reinforcement HS Structures	LB	3,860.000	3,860.000
		Bar Steel Reinforcement HS Coated Structures			
0040	505.0600		LB	19,390.000	19,390.000
0042	516.0500	Rubberized Membrane Waterproofing	SY	16.000	16.000
0044	550.0020	Pre-Boring Rock or Consolidated Materials	LF	170.000	170.000
0046	550.1100	Piling Steel HP 10-Inch X 42 Lb	LF	190.000	190.000
0048	606.0300	Riprap Heavy	CY	519.000	519.000
0050	612.0406	Pipe Underdrain Wrapped 6-Inch	LF	162.000	162.000
0052	614.0150	Anchor Assemblies for Steel Plate Beam Guard	EACH	4.000	4.000
0054	618.0100	Maintenance And Repair of Haul Roads (project) 01. 5378-00-71	EACH	1.000	1.000
0056	619.1000	Mobilization	EACH	1.000	1.000
0058	624.0100	Water	MGAL	3.000	3.000
0060	625.0500	Salvaged Topsoil	SY	845.000	845.000
0062	627.0200	Mulching	SY	379.000	379.000
0064	628.1504	Silt Fence	LF	301.000	301.000
0066	628.1520	Silt Fence Maintenance	LF	601.000	601.000
0068	628.1905	Mobilizations Erosion Control	EACH	3.000	3.000
0070	628.1910	Mobilizations Emergency Erosion Control	EACH	3.000	3.000
0072	628.2027	Erosion Mat Class II Type C	SY	467.000	467.000
		* *			
0074	628.7504	Temporary Ditch Checks	LF	8.000	8.000

Page 2

Estimate Of Quantities

EO.	70	\cap		71	
53	/ O-	UU	- 1	/ 1	

					5378-00-7
Line	Item	Item Description	Unit	Total	Qty
0076	629.0210	Fertilizer Type B	CWT	53.000	53.000
0078	630.0110	Seeding Mixture No. 10	LB	9.000	9.000
0800	630.0160	Seeding Mixture No. 60	LB	2.000	2.000
0082	630.0200	Seeding Temporary	LB	23.000	23.000
0084	634.0614	Posts Wood 4x6-Inch X 14-FT	EACH	4.000	4.000
0086	637.2230	Signs Type II Reflective F	SF	12.000	12.000
8800	638.2102	Moving Signs Type II	EACH	2.000	2.000
0090	638.2602	Removing Signs Type II	EACH	4.000	4.000
0092	638.3000	Removing Small Sign Supports	EACH	4.000	4.000
0094	638.4000	Moving Small Sign Supports	EACH	2.000	2.000
0096	642.5001	Field Office Type B	EACH	1.000	1.000
0098	643.0420	Traffic Control Barricades Type III	DAY	360.000	360.000
0100	643.0705	Traffic Control Warning Lights Type A	DAY	720.000	720.000
0102	643.0900	Traffic Control Signs	DAY	540.000	540.000
0104	643.5000	Traffic Control	EACH	1.000	1.000
0106	645.0111	Geotextile Type DF Schedule A	SY	80.000	80.000
0108	645.0120	Geotextile Type HR	SY	931.000	931.000
0110	650.4500	Construction Staking Subgrade	LF	138.000	138.000
0112	650.5000	Construction Staking Base	LF	138.000	138.000
0114	650.6500	Construction Staking Structure Layout (structure) 01. B-62-0252	LS	1.000	1.000
0116	650.9910	Construction Staking Supplemental Control (project) 01. 5378-00-71	LS	1.000	1.000
0118	650.9920	Construction Staking Slope Stakes	LF	138.000	138.000
0120	690.0150	Sawing Asphalt	LF	40.000	40.000
0122	715.0415	Incentive Strength Concrete Pavement	DOL	500.000	500.000
0124	715.0502	Incentive Strength Concrete Structures	DOL	858.000	858.000

CLEARING AND GRUBBING								
			201.0105	201.0205				
			CLEARING	GRUBBING				
CATEGORY	STATION	- STATION	STA	STA				
0010	0+93	- 3+09	2	2				
		TOTAL	2	2				

		690.0150
		SAWING ASPHALT
CATEGORY	STATION	LF
0010	0+93	20
	3+09	20
	TOTA	AL 40

PERMANE	NT SIGNIN	G TYP
CATEGORY	SIGN NO.	STATI
0010	01-1	1+65
	01-2	2+39

PERMANE	NT SIGNIN	G TYPE II					
						637.2230	634.0614
					SIGN SIZE	SIGNS TYPE II REFLECTIVE F	POSTS WOOD 4X6-INCH 14-FT
CATEGORY	SIGN NO.	STATION	LOCATION	SIGN CODE	IN X IN	SF	EACH
0010	01-1	1+65	LT	W5-52L	12 X 36	3.00	1
•	01-2	2+39	LT	W5-52L	12 X 36	3.00	1
•	01-3	1+65	RT	W5-52R	12 X 36	3.00	1
	01-4	2+24	RT	W5-52R	12 X 36	3.00	1
					TOTA	L 12	4

		415.0410	415.0080
		CONCRETE PAVEMENT APPROACH SLAB	CONCRETE PAVEMENT 8-INCH
CATEGORY	DESCRIPTION	SY	SY
0010	SOUTH APPROACH	56	12
0010	NORTH APPROACH	56	12
	TOTAL	112	24

				305.0110	305.0120	624.0100
				BASE AGGREGATE DENSE 3/4-INCH	BASE AGGREGATE DENSE 1 1/4-INCH	WATER
CATEGORY	STATION	- STATION	LOCATION	TON	TON	MGAL
0010	0+93	- 1+63	LT	5		0.1
	0+93	- 1+63	RT	5		0.1
	0+93	- 1+63			106	1.6
	2+42	- 3+09	LT	4		0.1
	2+42	- 3+09	RT	4		0.1
	2+42	- 3+09			101	1.5
			TOTA	L 18	207	3

				638.2102	638.2602	638.3000	638.4000	
				MOVING SIGNS TYPE II	REMOVING SIGNS TYPE II	REMOVING SMALL SIGN SUPPORTS	MOVING SMALL SIGN SUPPORTS	COMMENTS
CATEGORY	SIGN NO.	STATION	LOCATION	EACH	EACH	EACH	EACH	
0010	01-5	1+96	LT		1	1		
	01-6	2+26	LT		1	1		
	01-7	2+55	LT	1			1	
	01-8	1+61	RT	1			1	
	01-9	1+72	RT		1	1		
	01-10	2+05	RT		1	1		
			TOTA	L 2	4	4	2	

		618.0100 MAINTENANCE AND REPAIR OF HAUL ROADS
CATEGORY	DESCRIPTION	EACH
0030	PROJECT: 5378-00-71	1
	TOTAL	1

				450.4000	455.0605	465.0105	465.0315
				HMA COLD WEATHER PAVING	TACK COAT	ASPHALTIC SURFACE	ASPHALTIC FLUMES
CATEGORY	STATION	- STATION	LOCATION	TON	GAL	TON	SY
0010	0+93	- 1+63	RT	34	11	34	
	0+95		LT	9			9
	2+42	- 3+09	LT	33	10	33	
			TOTAL	. 76	21	67	9

TRAFFIC CO	ONTROL			643.0420		643.0705		643.0900		
			TRAFFIC CONTROL BARRICADES TYPE III	TRAFFIC CONTROL BARRICADES TYPE III	TRAFFIC CONTROL WARNING LIGHTS TYPE A	TRAFFIC CONTROL WARNING LIGHTS TYPE A	TRAFFIC CONTROL SIGNS	TRAFFIC CONTROL SIGNS		
CATEGORY	LOCATION	DAYS	EACH	DAY	EACH	DAY	EACH	DAY		
0010	PROJECT TRAFFIC CONTROL	60 6 360		12	720	9	9 540			
TOTAL				360		720	540			

MOBILIZA	TION		
		628.1905	628.1910
		MOBILIZATIONS EROSION	MOBILIZATIONS EMERGENCY
		CONTROL	EROSION CONTROL
CATEGORY	DESCRIPTION	EACH	EACH
0010	PROJECT 5378-00-71	3	3
	тота	L 3	3

	650.4500	650.5000	650.9910	650.9920
	CONSTRUCTION STAKING SUBGRADE	CONSTRUCTION STAKING BASE	CONSTRUCTION STAKING SUPPLEMENTAL CONTROL	
LOCATION	LF	LF	LS	LF
PROJECT 7067-00-00	138	138	1	138
TOTA	AL 138	138	1	138

EARTHWORK		
		205.0100
		COMMON EXCAVATION **P**
CATEGORY	DESCRIPTION	CY
0010	OLD LINE ROAD SOUTH	62
0010	CHANNEL REALIGNMENT	279
0010	OLD LINE ROAD NORTH	57
	TOTA	L 398

				625.0500	627.0200	628.1504	628.1520	628.2027	628.7504	629.0210	630.0110	630.0140	630.0200
				SALVAGED TOPSOIL **P**		SILT FENCE	SILT FENCE MAINTENANCE	EROSION MAT URBAN CLASS II TYPE C	TEMPORARY DITCH CHECKS	FERTILIZER TYPE B **p**	SEEDING MIXTURE NO. 10 **p**	SEEDING MIXTURE NO. 60 **P**	SEEDING TEMPORARY **P**
CATEGORY	STATION	- STATION	LOCATION	SY	SY	LF	LF	SY	LF	CWT	LB	LB	LB
0010	0+93	- 3+09	LT	310	207			103		19	4		8
	0+93	- 3+09	RT	353	172			181		22	5		10
	0+93	- 3+09	CHANNEL BOTTOM SOUTH	90				90		6		1	2
	0+93	- 3+09	CHANNEL BOTTOM NORTH	93				93		6		1	3
	0+92	- 1+66	RT			87	174						
	1+28	- 1+72	RT			63	126						
	1+61		LT						8				
	2+52	- 3+09	RT			60	120						
	2+38	- 3+12	LT			91	182						
			TOTA	L 845	379	301	601	467	8	53	9	2	23

NOTE: ALL ITEMS AND QUANTITIES ON THIS SHEET ARE FOR ENGINEER ESTIMATE CATEGORY 0010 UNLESS OTHERWISE NOTED.

PROJECT NO: 5378-00-71	HWY: OLD LINE ROAD	COUNTY: VERNON	MISCELLANEOUS QUANTITIES	SHEET E
FILE NAME : P:\WISDOT\9238\DESIGN\QUANTITIES\9238-M	Q.DWG	PLOT DATE : 4/15/2018 9:53 PM	PLOT BY: RACHEL BURNHAM PLOT NAME:	WISDOT/CADDS SHEET 42

3	,
---	---

			205.0100 Excavation **P** (1)					Reduced Marsh in Fill (8)	Reduced EBS in Fill (9)	Expanded Marsh Backfill (10)	Expanded EBS Backfill (11)	Expanded Rock (12)		Expanded Fill (13)				
Division Division 1	From/To Station	Cut (2)	EBS Excavation (3)	Salvaged/Unusable Pavement Material (4)	Available Material (5)	205.0500 Marsh Excavation (6)	205.0200 Rock Excavation (7)	Factor 1.00	Factor 1.00	Factor 1.00	Factor 1.00	Factor 1.00	Unexpanded Fill	Factor 1.25	Mass Ordinate +/- (14)	Waste	Borrow	Comment:
Old Line Road - South	02+41.45/01+68.3	62	0	0	62	0	0	0	0	0	0	0	28	35	27	27	0	
Channel Realignment	00+92.48/01+96.54	279	0	0	279	0	0	0	0	0	0	0	160	200	79	79	0	
Old Line Road - North	00+25/03+09.03	57	0	0	57	0	0	0	0	0	0	0	59	74	-17	0	17	USE WASTE FROM CHANNEL REALIGNMENT FOR 17 CY OF BORROW
Division 1 Subtotal		398	0	0	397	0	0	0	0	0	0	0	247	308	89	106	0	
Grand Total		398	0	0	397	0	0	0	0	0	0	0	247	308	89	106	0	

Notes:

LAYOUT NAME - 030202_mq

Total Common Exc

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

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

- or Expanded Fill = (Unexpanded Fill Rock * Rock Factor Reduced EBS) * Fill Factor
- or Expanded Fill = (Unexpanded Fill Rock * Rock Factor Reduced Marsh) * Fill Factor
- Expanded Fill = (Unexpanded Fill Rock * Rock Factor) * Fill Factor
- (14) The Mass Ordinate + or Qty calculated for the Division. Plus quantity indicates an excess of material within the Division. Minus indicates a shortage of material within the Division.

CATEGORY 0010 UNLESS OTHERWISE NOTED.

HWY: OLD LINE ROAD Ε PROJECT NO: 5378-00-71 COUNTY: VERNON MISCELLANEOUS QUANTITIES SHEET P:\WISDOT\9238\DESIGN\QUANTITIES\9238-MQ.DWG PLOT DATE: 1/30/2018 8:30 AM PLOT BY: RACHEL BURNHAM PLOT NAME : FILE NAME : WISDOT/CADDS SHEET 42

NOTE: ALL ITEMS AND QUANTITIES ON THIS SHEET ARE FOR ENGINEER ESTIMATE

CONVENTIONAL SYMBOLS

			-		
SECTION LINE QUARTER LINE		SECTION CORNER SYMBOL	(23 24) (15 15) 9 4	R/W MONUM (TO BE SET)	ENTED O
SIXTEENTH LINE NEW REFERENCE LINE NEW R/W LINE		SECTION CORNER MONUMENT	(R/W POINT FOUND IRON (1-INCH UNLE	PIN IP
EXISTING R/W OR HE LINE PROPERTY LINE			SURVEY MONU CORNER MON	UMENT	©
LOT, TIE & OTHER MINOR LINES		SIGN	() SKIN	OFF-PREMIS SIGN	E (1-25) SIGN
SLOPE INTERCEPT				COMPENSABLE	NON-COMPENSABLE
CORPORATE LIMITS	111111111	ELECTRIC F			Ь
UNDERGROUND FACILITY (COMMUNICATIONS, ELECTRIC, ETC)	TYPE	PEDESTAL	(LABEL TYPE) ELEC. ETC.)	*	ø H
NEW R/W (FEE OR HE) (HATCHING VARIES BY OWNER)		7	STRICTED BY	ACQUISITION	шиш
TEMPORARY LIMITED EASEMENT AREA				DRY AUTHORITY	
EASEMENT AREA	1111111	ACCESS RE	STRICTED (BY	PREVIOUS	****

PROJECT OR CONTROL)

(25)

(40)

NO ACCESS (NEW HIGHWAY)

PARCEL NUMBER

PARALLEL OFFSETS

CONVENTIONAL ABBREVIATIONS

(PERMANENT LIMITED OR

BRIDGE

RESTRICTED DEVELOPMENT)

TO BE REMOVED

ACCESS POINT/	AP	RELEASE OF RIGHTS	ROR
DRIVEWAY CONNECTION		REMAINING	REM.
ACCESS RIGHTS	AR	RIGHT-OF-WAY	R/W
ACRES	AC.	SECTION	SEC.
AND OTHERS	ET.AL.	STATION	STA
CENTERLINE	C/L	TEMPORARY LIMITED EASEMENT	TLE
CERTIFIED SURVEY MAP	CSM	VOLUME	
CORNER	COR		V.
DOCUMENT	DOC	CURVE DATA	
EASEMENT	EASE	LONG CHORD	LCH
HIGHWAY EASEMENT	H.E.	LONG CHORD BEARING	LCB
LAND CONTRACT	LC	RADIUS	R
MONUMENT	MON	DEGREE OF CURVE	D
PAGE	Ρ.,	CENTRAL ANGLE	△/DELTA
PERMANENT LIMITED EASEMENT	PLE	LENGTH OF CURVE	L
PROPERTY LINE	PL	TANGENT	T
RECORDED AS	(100')	DIRECTION AHEAD	DA
REFERENCE LINE	R/L	DIRECTION BACK	DB

CONVENTIONAL UTILITY SYMBOLS

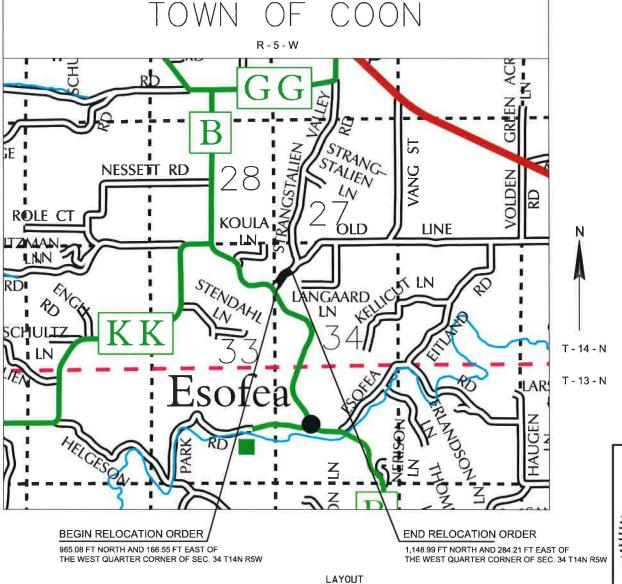
WATER	——w—
GAS	——G——
TELEPHONE	<u></u> r
OVERHEAD	— он —
TRANSMISSION LINES	
ELECTRIC	——Е—
CABLE TELEVISION	—тν—
FIBER OPTIC	——F0-—
SANITARY SEWER	
STORM SEWER	——ss——
COMMUNICATION	— с —

CAUTION
THIS PLAT IS FOR ILLUSTRATIVE PURPOSES ONLY. DEEDS
MUST BE CHECKED TO DETERMINE PROPERTY BOUNDARIES.

		SCHEDI	JLE OF LANDS	& INTER	REST R	EQUIRED			
PARCEL	SHEET	OWNER (S)	INTEREST REQUIRED	TOTAL ACRES	R/W ACRES REQUIRED			TOTAL	CONSTRUCTION
NUMBER	NUMBER	,,,			NEW	EXISTING	TOTAL	REM.	ACRES
1	4.02	DENNIS R. JEFFERS	FEE, TLE	2.66	0.04	761	0.04	2,62	0.05
2	4.02	JOHN L. LANGAARD, LARS LANGAARD and DIANE LANGAARD	FEE, TLE	32.33	0.05	4.5	0.05	32.28	0.09

OWNER'S NAMES ARE SHOWN FOR REFERENCE PURPOSES ONLY AND ARE SUBJECT TO CHANGE PRIOR TO THE TRANSFER OF LAND INTERESTS TO THE TOWN OF COON

UTLITY INTEREST REQUIRED									
UTILITY NUMBER	UTILITY OWNER(S)	INTEREST REQUIRED							
400	VERNON ELECTRIC COOP	RELEASE OF RIGHTS							
401	VERNON COMMUNICATIONS COOP	RELEASE OF RIGHTS							



R/W PROJECT NUMBER SHEET TOTAL SHEETS

R/W PROJECT NUMBER SHEETS

R/W PROJECT NUMBER 4.01 2

PLAT OF RIGHT OF WAY REQUIRED FOR

TOWN OF COON, OLD LINE ROAD

(BRANCH NORTH FORK BAD AXE

RIVER BRIDGE B-62-0252)

TOWN ROAD

VERNON COUNTY

NOTES:

POSITIONS SHOWN ON THIS PLAT ARE WISCONSIN COORDINATE REFERENCE SYSTEM COORDINATES (WISCRS), VERNON COUNTY, NAD 83 (1991) IN US SURVEY FEET. VALUES SHOWN ARE GRID COORDINATES, GRID BEARINGS, AND GRID DISTANCES. GRID DISTANCES MAY BE USED AS GROUND DISTANCES.

ALL NEW RIGHT-OF-WAY MONUMENTS WILL BE TYPE 2 (TYPICALLY ¾" X 24" IRON REBARS), UNLESS OTHERWISE NOTED, AND WILL BE PLACED PRIOR TO THE COMPLETION OF THE PROJECT.

ALL RIGHT-OF-WAY LINES DEPICTED IN THE NON-ACQUISITION AREAS ARE INTENDED TO RE-ESTABLISH EXISTING RIGHT-OF-WAY LINES AS DETERMINED FROM PREVIOUS PROJECTS, OTHER RECORDED DOCUMENTS, OR FROM CENTERLINE OF EXISTING PAVEMENTS. DOCUMENT NO. 243424, DEDICATES A ROAD WIDTH OF THREE RODS (49.5 FT)

RIGHT-OF-WAY BOUNDARIES ARE DEFINED WITH COURSES OF THE PERIMETER OF THE HIGHWAY LANDS REFERENCED TO THE U.S. PUBLIC LAND SURVEY SYSTEM OR OTHER "SURVEYS" OF PUBLIC RECORD.

DIMENSIONING FOR THE NEW RIGHT-OF-WAY IS MEASURED ALONG AND PERPENDICULAR TO THE NEW REFERENCE LINES.

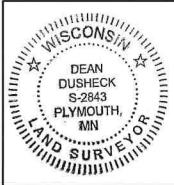
A TEMPORARY LIMITED EASEMENT (TLE) IS A RIGHT FOR CONSTRUCTION PURPOSES, AS DEFINED HEREIN, INCLUDING THE RIGHT TO OPERATE NECESSARY EQUIPMENT THEREON, THE RIGHT OF INGRESS AND EGRESS, AS LONG AS REQUIRED FOR SUCH PUBLIC PURPOSE, INCLUDING THE RIGHT TO PRESERVE, PROTECT, REMOVE, OR PLANT THEREON ANY VEGETATION THAT THE HIGHWAY AUTHORITIES MAY DEEM DESIRABLE. ALL (TLES) ON THIS PLAT EXPIRE AT THE COMPLETION OF THE CONSTRUCTION PROJECT FOR WHICH THIS INSTRUMENT IS GIVEN.

PROPERTY LINES SHOWN ON THIS PLAT ARE DRAWN FROM DATA DERIVED FROM MAPS AND DOCUMENTS OF PUBLIC RECORD AND/OR EXISTING OCCUPATIONAL LINES. THIS PLAT MAY NOT BE A TRUE REPRESENTATION OF EXISTING PROPERTY LINES, EXCLUDING RIGHT-OF-WAY, AND SHOULD NOT BE USED AS A SUBSTITUTE FOR AN ACCURATE FIELD SURVEY.

PARCEL IDENTIFICATION NUMBERS MAY NOT POINT TO ALL AREAS OF ACQUISITION, AS NOTED ON THE SCHEDULE OF LANDS & INTERESTS REQUIRED.

EXISTING HIGHWAY RIGHT-OF-WAY SHOWN HEREIN IS BASED ON THE FOLLOWING POINTS OF REFERENCE: EXISTING CENTERLINE OF OLD LINE ROAD, 3 RODS (49.5 FEET) CONVEYED JUNE 11, 1969, PER DOCUMENT *243424, UNDER SECTION 82.18. WISCONSIN STATUTE





TOWN OF COON

I HEREBY CERTIFY THAT THIS PLAT MEETS ALL REQUIREMENTS OF WISCONSIN STATUTES. THIS PLA WAS PREPARED BY OR UNDER THE DIRECTION OF

DATE: 11/6/2017

REGRISTRATION NUMBER: S-2843

APPROVED FOR THE TOWN OF COON

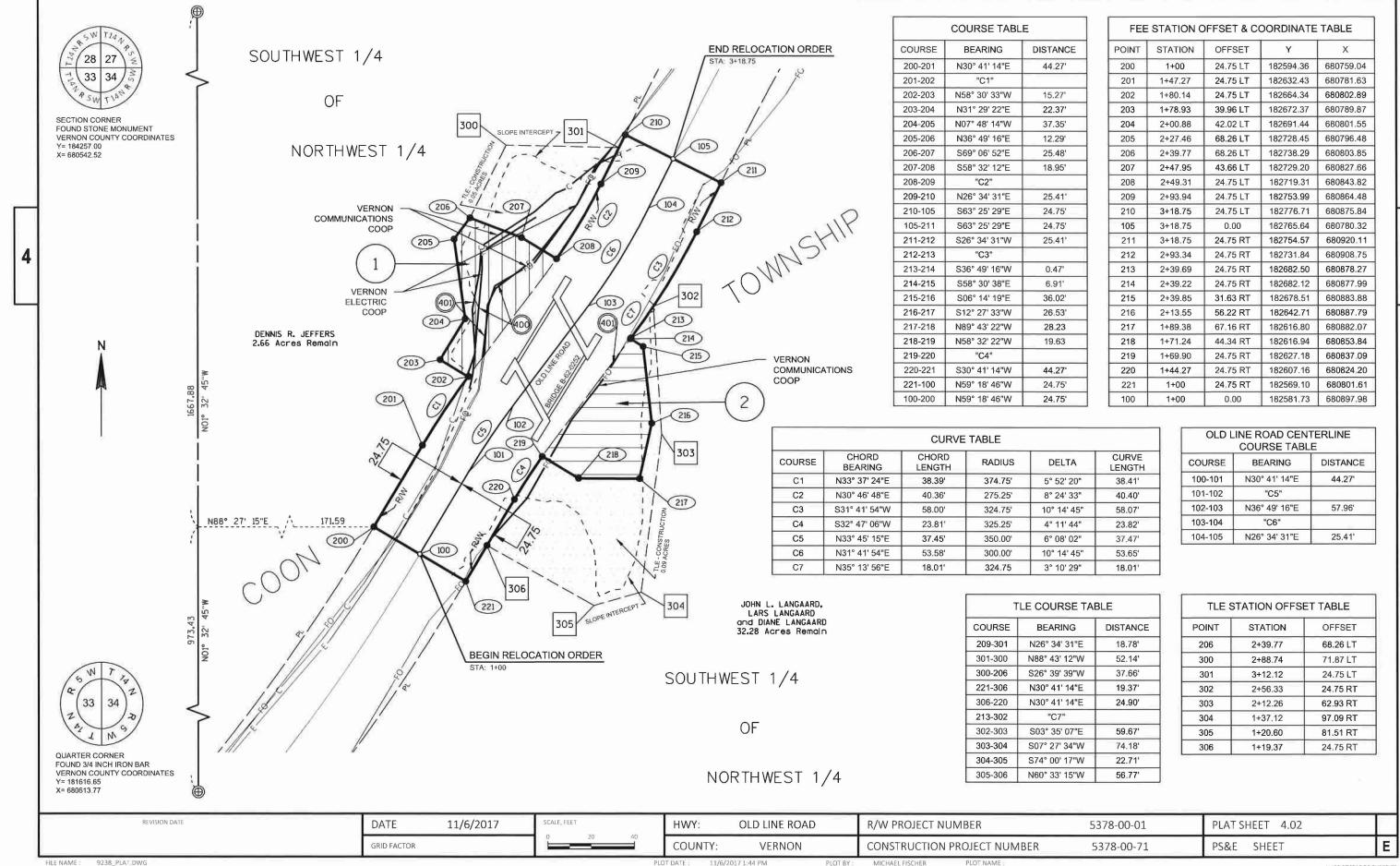
DATE 12-20-17 Shil Hewith

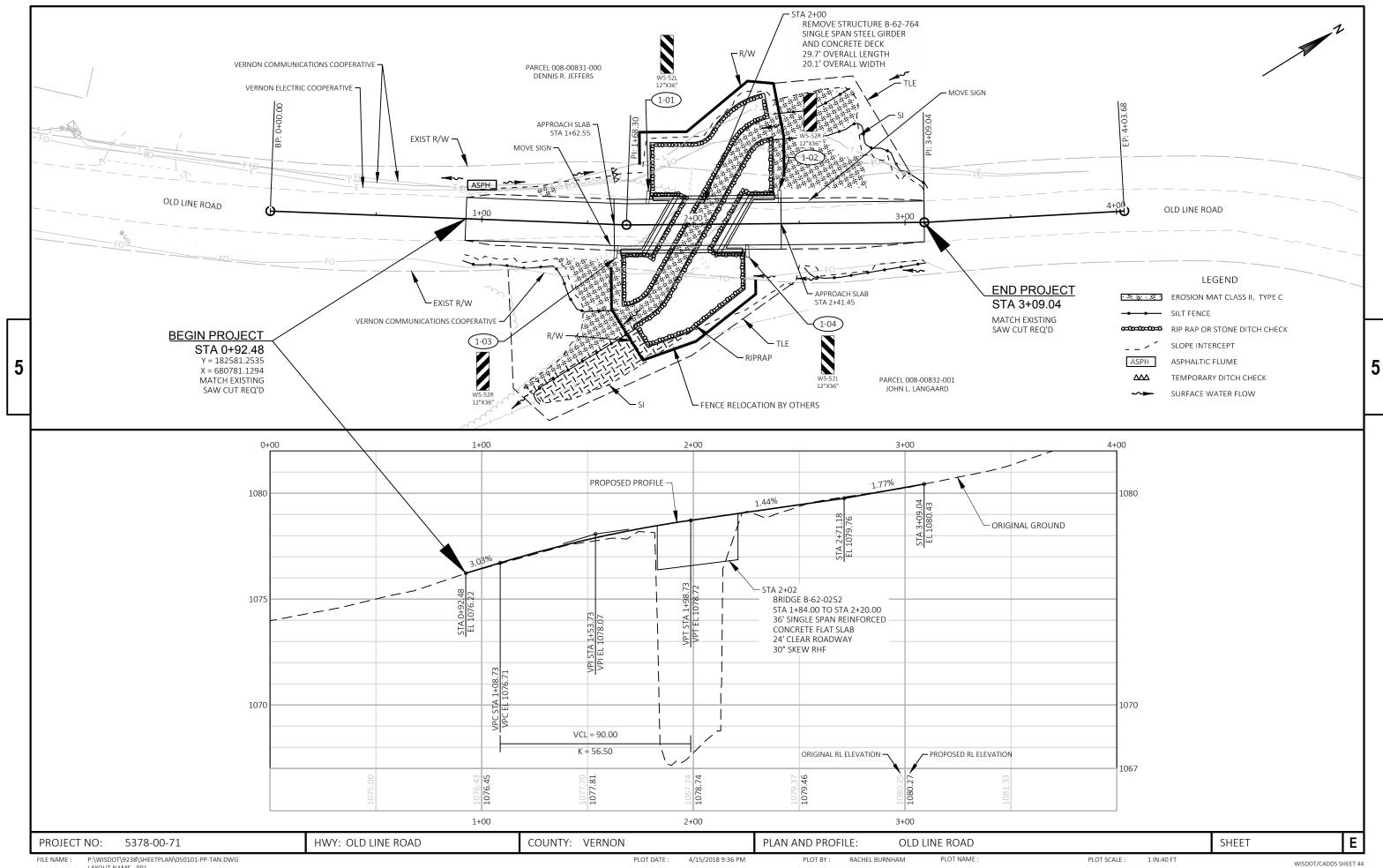
SCALE

1 MILE

TOTAL NET LENGTH OF CENTERLINE = 0.04 MILES

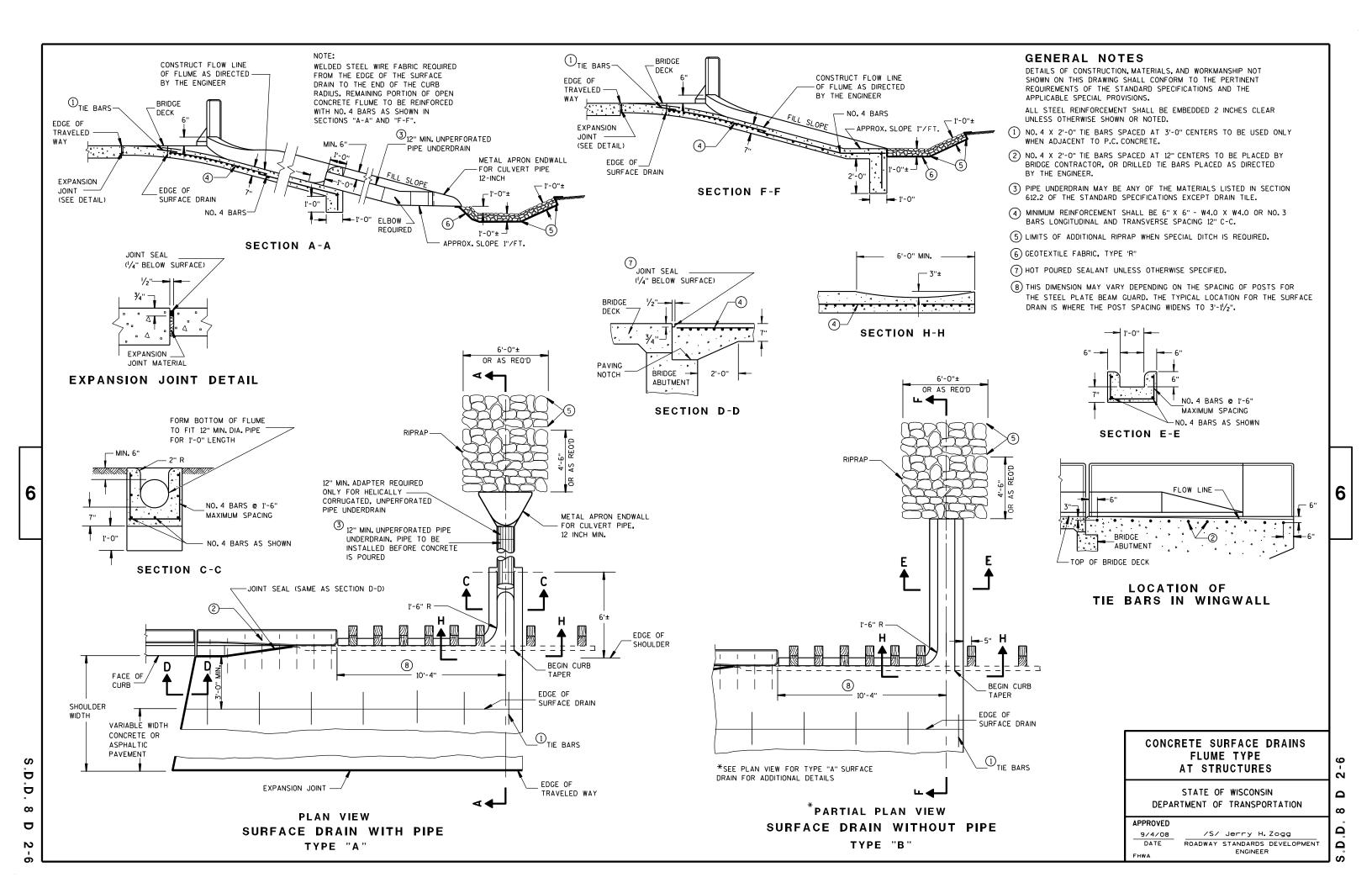






Standard Detail Drawing List

08D02-06	CONCRETE SURFACE DRAINS FLUME TYPE AT STRUCTURES
08E08-03	TYPICAL INSTALLATIONS OF EROSION BALES / TEMPORARY DITCH CHECKS
08E09-06	SILT FENCE
12A03-10	NAME PLATE (STRUCTURES)
13B02-08A	CONCRETE PAVEMENT APPROACH SLAB
13B02-08B	STRUCTURAL APPROACH SLAB AND CONCRETE PAVEMENT APPROACH SLAB
15C02-06A	BARRICADES AND SIGNS FOR MAINLINE CLOSURES
15C02-06B	BARRICADES AND SIGNS FOR MAINLINE CLOSURES
15C06-09	SIGNING & MARKING FOR TWO LANE BRIDGES
15D38-02A	TEMPORARY TRAFFIC CONTROL SIGN MOUNTING
15D38-02B	ATTACHMENT OF SIGNS TO POSTS



GENERAL NOTES

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

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



WHEN ALTERING THE DIRECTION OF FLOW



PLAN VIEW



FRONT ELEVATION

WHEN EXISTING GROUND SLOPES AWAY FROM FILL SLOPE

EROSION BALES FOR SHEET FLOW

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

STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION

APPROVED

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

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TYPICAL APPLICATION OF SILT FENCE

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PLAN VIEW SILT FENCE AT MEDIAN SURFACE DRAINS



GENERAL NOTES

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

- \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)

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
4-29-05 /S/ Beth Cannestra

29-05 /S/ Beth Cannestra
DATE CHIEF ROADWAY DEVELOPMENT ENGINEER

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TYPICAL NAME PLATE

(BRIDGES, CULVERTS, AND RETAINING WALLS)



NUMBERING DESIGNATION MULTI-UNIT STRUCTURES

GENERAL NOTES

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

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

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



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

SECTION A-A

ALTERNATE LUG



ALTERNATE LUG

(FOR ATTACHMENT TO PRECAST STRUCTURES)

NAME PLATE (STRUCTURES)

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

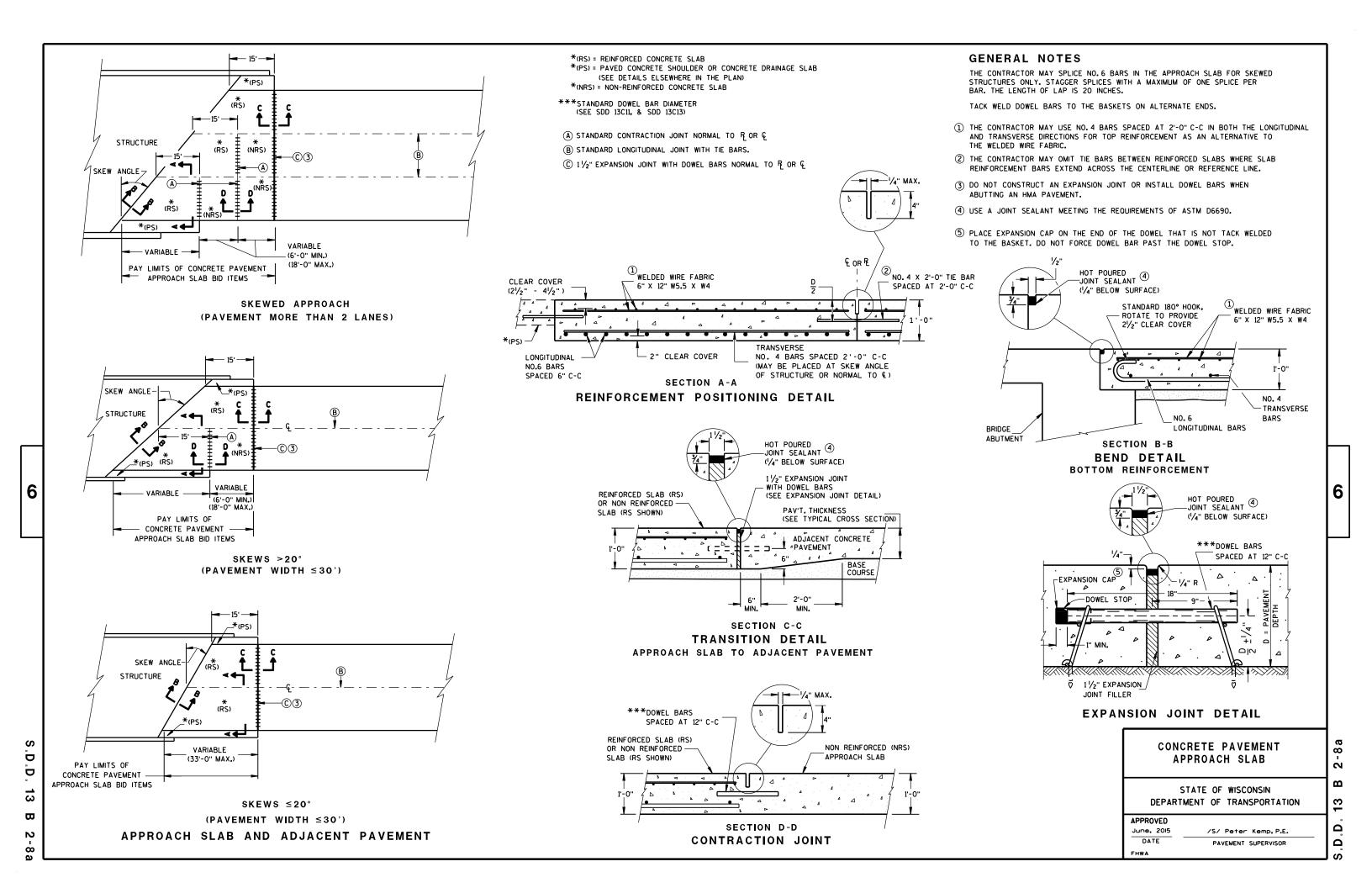
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3/26/IO /S/ SCOT BECKET

CHIEF STRUCTURAL DEVELOPMENT ENGINEER

D.D. 12 A

3-10

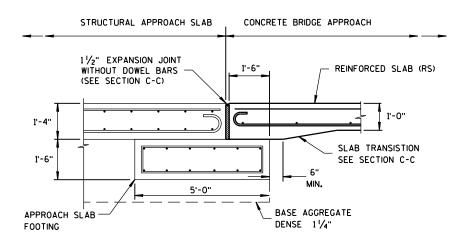


GENERAL NOTES

ALL PROJECTS THAT INVOLVE A STRUCTURAL APPROACH SLAB WILL ALSO HAVE A CONCRETE PAVEMENT APPROACH SLAB.

- 1 SEE BRIDGE PLAN.
- (2) CONFORM TO SHEET 13 B 2(A) FOR CONCRETE PAVEMENT APPROACH SLAB DETAILS.
- 3 DO NOT CONSTRUCT AN EXPANSION JOINT OR INSTALL DOWEL BARS WHEN ABUTTING AN HMA PAVEMENT.
- © 11/2" EXPANSION JOINT WITH DOWEL BARS NORMAL TO P OR &
- D 1 1/2" EXPANSION JOINT (NO DOWELS)

BRIDGE APPROACHES



SECTION E-E

FOOTING DETAIL

STRUCTURAL APPROACH SLAB TO CONCRETE BRIDGE APPROACH

STRUCTURAL APPROACH SLAB AND CONCRETE PAVEMENT APPROACH SLAB

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED	
June, 2015	/S/ Peter Kemp, P.E.
DATE	PAVEMENT SUPERVISOR

D.D. 13 B 2-8b

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.D.D. 13

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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

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STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION

/S/ Peter Amakobe Atepe

STATEWIDE WORK ZONE TRAFFIC SAFETY ENGINEER





TUBULAR STEEL POSTS

AREA OF SIGN INSTALLATION (SO. FT.)	NUMBER OF REQUIRED TUBULAR STEEL POSTS
9 OR LESS	1
GREATER THAN 9 LESS THAN OR EQUAL TO 18	2
GREATER THAN 18 LESS THAN OR EQUAL TO 27	3

SIGNS WIDER THAN 3 FEET OR LARGER THAN 9 SO.FT. SHALL BE MOUNTED ON MULTIPLE POSTS (SEE ABOVE TABLE). SIGNS LARGER THAN 27 SO.FT. SHALL NOT BE MOUNTED ON TUBULAR STEEL POSTS.

URBAN AREA

POST MOUNTING DETAIL FOR TEMPORARY TRAFFIC CONTROL FIXED MESSAGE SIGNS

WOOD POST **EMBEDMENT DEPTH**

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

4" X 6" WOOD POST

POST SPACING REQUIREM	MENTS	NUMBER OF WOOD POSTS REQUIRED	
L	E		
48" OR LESS AND LESS THAN 20 SO.FT.	-	1	
LESS THAN 60"	12"	2	٤
60" TO 120"	L/5	2	
GREATER THAN 120" LESS THAN 168"	12"	3	
168" AND GREATER	12"	4	

SEE NOTE (3)

RURAL AREA

TEMPORARY TRAFFIC CONTROL SIGN MOUNTING

STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION

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- 11/2" DIAMETER HOLES

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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.

WOOD POSTS (4" x 4" or 4" x 6")

LAG SCREWS - 3/8" X 3"

MACHINE BOLTS - 1/6" X 6-1/2" OR 7" LENGTH W/ NUTS

SQUARE STEEL POSTS (2" x 2")

MACHINE BOLTS - 3/8" X 3-1/4" LENGTH W/ NUTS

RIVETS - 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 3/8" I.D. X 1/16" STEEL

1-1/4" O.D. X 3/8" I.D. X .080 NYLON FOR ALL TYPE H SIGNS

* 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. FOR A SINGLE POST INSTALLATION, ALL SIGNS GREATER THAN 9 SQ. FT. REQUIRE THE USE OF 3 FASTENERS.

> ATTACHMENT OF SIGNS TO POSTS

STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION

APPROVED

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

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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:

| | |





DESIGN DATA

LIVE LOAD:
DESIGN LOADING: HL-93
INVENTORY RATING FACTOR: RF = 1.13 OPERATING RATING FACTOR: RF = 1.69
WISCONSIN STANDARD PERMIT VEHICLE (Wis-SPV) = 250 KIPS

STRUCTURE IS DESIGNED FOR A FUTURE WEARING SURFACE

MATERIAL PROPERTIES:
CONCRETE SUPERSTRUCTURE
CONCRETE SUBSTRUCTURE

f'c = 4000 P.S.I. f'c = 3500 P.S.I.

FOUNDATION DATA

ABUTMENTS TO BE SUPPORTED ON HP 10-INCH \times 42 LB. PILING. ESTIMATED 13 FEET LONG AT THE WEST ABUTMENT AND 15 FEET LONG AT THE EAST ABUTMENT. PREBORE AT LEAST 3-FEET INTO SOLID ROCK. CASING SHALL BE REQUIRED. PILING SHALL BE FIRMLY SEATED ON ROCK. FILL SPACE BETWEEN THE CORED HOLE AND PILE WITH CONCRETE OR CEMENT GROUT. CLEAN SAND MAY BE USED TO BACKFILL ABOVE THE TOP OF ROCK ELEVATION.

*THE FACTORED AXIAL RESISTANCE OF PILES IN COMPRESSION USED FOR DESIGN IS 90 TONS.

HYDRAULIC DATA

100 YEAR FREQUENCY 1020 C.F.S. 10.6 F.P.S. 1075.42 FT 97 S.O. 1.8 S.O. MILES 0 100 = VEL, = WATERWAY AREA =

DRAINAGE AREA = ROADWAY OVERTOPPING = N/A SCOUR CRITICAL CODE = 8

2 YEAR FREQUENCY

0₂ = VEL.= HW₂ = 1071.69 FT

LIST OF DRAWINGS

I. GENERAL PLAN & ELEVATION CROSS SECTION, QUANTITIES & NOTES SUBSURFACE EXPLORATION

4. WEST ABUTMENT

5. WEST ABUTMENT DETAILS 6. EAST ABUTMENT

. EAST ABUTMENT DETAILS

8. SUPERSTRUCTURE 9. SUPERSTRUCTURE DETAILS

10. SINGLE SLOPE PARAPET 11. SLOPE PAVING DETAILS

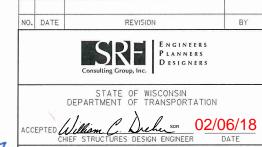
- 1) SEE ROADWAY STANDARD PLAN,
- (2) SEE GRADING PLAN FOR TRANSITION TO EXISTING CHANNEL.
- 3 SEE CHANNEL REALIGNMENT DETAILS IN THE ROADWAY PLANS AND SHEET 10 FOR FULL EXTENT OF RIPRAP.



EL. 1080.256 DESCRIPTION: BENCHMARK LIMIT1, SET FROM PIN IN GRADE

BRIDGE OFFICE CONTACT: BILL DREHER (608)266-8489

SRF CONTACT: CASEY BLACK (763)452-4751



8

TRAFFIC DATA

A.D.T. (2038) = 105 DESIGN SPEED = 30 M.P.H.

95

A.D.T. (2018) =

STRUCTURE B-62-252

DLD LINE RD OVER BRANCH N. FORK BAD AXE RIVER AASHTO LRFD BRIDGE DESIGN SPECIFICATIONS DESIGNED DESIGN DRAWN
BY CEB CK'D. KLS BY SHEET 1 OF 11

GENERAL PLAN & ELEVATION

BENCHMARK STA. 3+52.41 OFFSET: 16.5 FT. LT.

1/2" SET FROM NE OF BRIDGE.

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4'-0"

TYPICAL RIPRAP DETAIL

(ADJACENT TO ABUTMENTS)

GEOTEXTILE FABRIC, TYPE 'HR'

HEAVY RIPRAP

STREAMBED

8

EL. 1073.64

TOP OF BERM EL.1068.27 UPSTREAM, EL.1068.16 DOWNSTREAM

EAST ABUTMENT

-PROP. CHANNEL

* ANCHOR ASSEMBLY FOR THRIE BEAM TYPE GUARDRAIL.

1090

1080

1070

1060

1050 -

X DENOTES WING NUMBER

-PROFILE GRADE

LINE

EXISTING GROUND

-HP 10-INCH X 42 LBS. (CASED) EST. 15 FT. LONG

-EXIST. CHANNEL

A

TYP. WING LENGTH

-OBSERVED WATER EL.N/A (INTERMITTENT)

HIGH WATER Q.

- PROPOSED BRIDGE B-62-252

-EXISTING STRUCTURE B-62-764 TO BE REMOVED

PROP. CHANNEL

PLAN

(SINGLE SPAN REINFORCED CONCRETE FLAT SLAB)

-30° SKEW

38'-105/8"

BACK TO BACK OF ABUTMENTS

SPAN

CONCRETE APPROACH

SLAB (TYP.

EXIST. CHANNEL

NAMEPLATE -

& OF OLD LINE ROAD -

END OF DECK STA. 1+83.33

BENCH MARK

LOW MEMBER EL. 1076.38

EL. 1070.58-

EST. 13 FT. LONG

SEE TYPICAL RIPRAP DETAIL

EXISTING GROUNDLINE -

WEST ABUTMENT

STREAMBED TO MATCH-

TOP OF TOE

(NORMAL TO PROPOSED © CHANNEL)

HP 10-INCH X 42 LBS. (CASED)-

SINGLE SLOPE PARAPET 32SS

EL. 1073.08-

DOUBLER PLATES PLATE 3/8" X 5" X 5" 10" PILE PLATE 1/16" X 8" X 8" 12" PILE PLATE 1/16" X 10" X 10" 14" PILE DOUBLER PLATE-AT FLANGE UNDER DOUBLER PLATE 1/4" FOR 10" PILE 5/6" FOR 12" & 14" PILE -STEEL 'HP' PILING-(10", 12" & 14") IF DOUBLER PLACED FIRST STEEL 'HP' SHAPES HP WELD DETAIL

B-62-252 TOTAL ESTIMATED QUANTITIES

GENERAL NOTES

DRAWINGS SHALL NOT BE SCALED. BAR STEEL REINFORCEMENT SHALL BE EMBEDDED 2" CLEAR UNLESS OTHERWISE SHOWN OR NOTED.

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

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

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

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

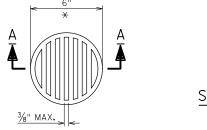
SEE ROADWAY PLANS FOR EXISTING UTILITY LOCATIONS.

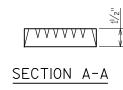
THE EXISTING STRUCTURE TO BE REMOVED IS A 29.7'LONG BY 20.1'CLEAR ROADWAY WIDTH, ONE-SPAN STEEL GIRDER AND CONCRETE DECK (B-62-764) WITH BITUMINOUS OVERLAY, SET ON FULL RETAINING VERTICAL MASONRY ABUTMENTS.

THE UPPER LIMITS OF "EXCAVATION FOR STRUCTURES BRIDGES B-62-252" SHALL BE THE EXISTING GROUNDLINE.

PROTECTIVE SURFACE TREATMENT SHALL BE APPLIED TO THE TOP OF SLAB AND EXPOSED TOPS OF WINGS.

PIGMENTED SURFACE SEALER SHALL BE APPLIED TO THE TOP AND ROADWAY FACES OF THE PARAPET, INCLUDING PARAPETS ON ABUTMENT WINGS.





BID ITEM

NON-BID ITEMS

RODENT SHEILD 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 UNDERDRAIN WRAPPED 6-INCH".

BACKFILL STRUCTURE TYPE A

PROTECTIVE SURFACE TREATMENT

CONCRETE MASONRY BRIDGES

PIGMENTED SURFACE SEALER

RIPRAP HEAVY

FILLER

NAME PLATE

GEOTEXTILE TYPE HR

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

REMOVING OLD STRUCTURE OVER WATERWAY STA 2+02.00

EXCAVATION FOR STRUCTURES BRIDGES B-62-252

BAR STEEL REINFORCEMENT HS COATED STRUCTURES

ANCHOR ASSEMBLIES FOR STEEL PLATE BEAM GUARD

BAR STEEL REINFORCEMENT HS STRUCTURES

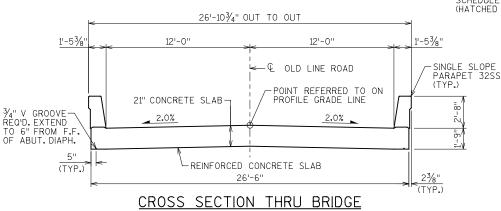
PRE-BORING ROCK OR CONSOLIDATED MATERIALS

RUBBERIZED MEMBRANE WATERPROOFING

PILING STEEL HP 10-INCH X 42 LB

PIPE UNDERDRAIN WRAPPED 6-INCH

GEOTEXTILE TYPE DE SCHEDULE A



(LOOKING EAST)

WFST

ABUTMENT

164

32

1930

2005

80

90

254

81

40

459

UNIT

TON

CY

SY

ΙB

LB

1 F

CY

ΙF

EACH

SY

SY

SIZE

EACH

EAST

ABUTMENT

164

32

1930

2015

90

100

265

81

40

4**7**2

SUPER-

STRUCTURE

100

48

15370

TOTAL

328

143

100

48

3860

19390

170

190

519

162

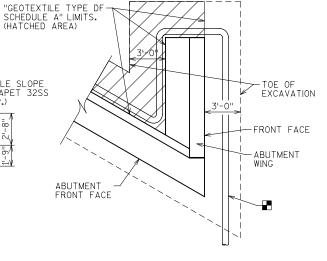
80

931

1/2" & 3/4"

(1)(2)

12



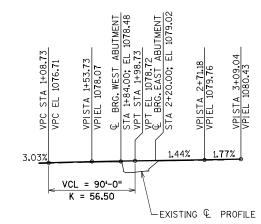
- WELD

FLANGE SHOWN, WEB SIMILAR

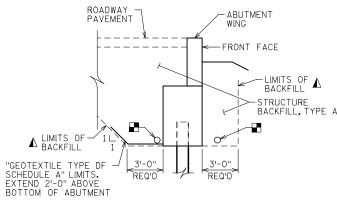
ABUTMENT PLAN WITH WING

(A1 ABUTMENT WITHOUT STRUCTURAL APPROACH)

☐ PIPE UNDERDRAIN WRAPPED (6-INCH). SLOPE 0.5% MIN. TO SUITABLE DRAINAGE. ATTACH RODENT SHIELD AT ENDS OF PIPE UNDERDRAIN.



PROFILE GRADE LINE



TYPICAL SECTION THRU WING (A1 ABUTMENT WITHOUT STRUCTURAL APPROACH)

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

NOTES:

- 1 ABUTMENT QUANTITIES INCLUDE MATERIALS FOR ABUTMENTS AND PARAPET SECTIONS ON ABUTMENTS.
- 2 SUPERSTRUCTURE QUANTITY INCLUDES MATERIALS FOR SLAB AND PARAPETS ON SLAB.

BID ITEM

NUMBER

206,1000

210-1500

502.3200

505,0400

505,0600

516.0500

550,0020

550,1100

606,0300

612,0406

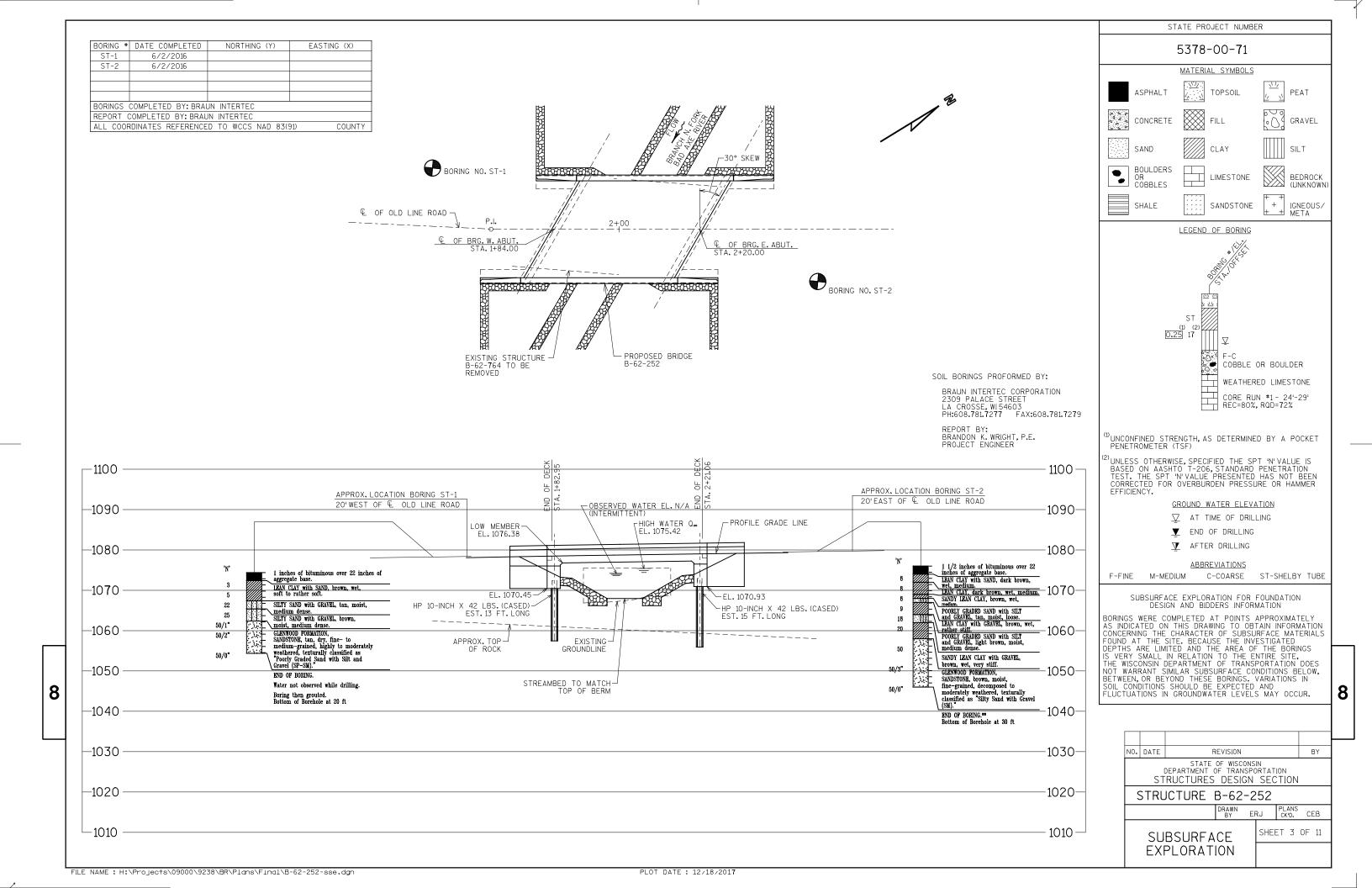
614,0150

645,0111

645.0120

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION STRUCTURE B-62-252 ERJ PLANS CEB CROSS SECTION, QUANTITIES &

NOTES



NOTES

FOR PILE SPLICE SEE SHEET 2.

FILL/EXCAVATE TO BOTTOM OF ABUTMENT EL.1070.58 BEFORE DRIVING PILING.

SEE SHEET 2 FOR STRUCTURE BACKFILL AND PIPE UNDERDRAIN DETAIL.

SEE FOUNDATION DATA ON SHEET 1 FOR PILING INFORMATION.

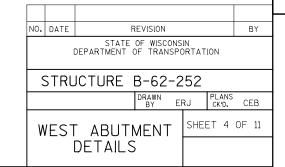
- (1) A506 BARS MAY BE PLACED AFTER CONCRETE IS POURED, BUT BEFORE INITIAL SET HAS TAKEN PLACE.
- (2) 18" RUBBERIZED MEMBRANE WATERPROOFING, SEAL ALL HORIZONTAL AND VERTICAL JOINTS ON BACK FACE, EXTEND FROM BRIDGE SEAT TO TOP OF WING.
- (3) KEYED CONSTRUCTION JOINT FORMED BY BEVELED 2" X 6" KEYWAY. TERMINATE 1'-0" FROM ABUTMENT END.
- $\boxed{4}/_2"$ FILLER TO EXTEND FROM BRIDGE SEAT TO TOP OF PARAPET, FILLER INCLUDED IN WING LENGTH, SEAL ALL EXPOSED HORIZONTAL AND VERTICAL SURFACES OF $\boxed{\prime}_2"$ FILLER WITH NON-STAINING GRAY NON-BITUMINOUS JOINT SEALER, (1" DEEP AND HOLD $\boxed{\prime}_8"$ BELOW SURFACE OF CONCRETE), EXTEND SEALER 3" BELOW GUTTER LINE AT INSIDE FACE,
- 5 MEASURED ALONG & OF ABUTMENT.

FF - FRONT FACE BF - BACK FACE

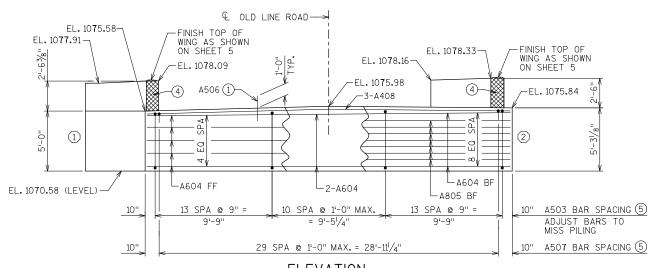
(X) DENOTES WING NUMBER.

© ABUT. & PILES A506 1 4"X¾" FILLER A408 EL. 1073.08 FF EL. 1073.08 STEEL PILING HPIOX42 SEE SLOPE PAVING DETAILS ON SHEET 11 2'-6" A401 PIPE UNDERDRAIN WRAPPED (6-INCH), SICOPE 0.5% MIN. TO SUITABLE DRAINAGE, ATTACH RODENT SHELLD AT ENDS OF PIPE UNDERDRAIN AS SHOWN ON SHEET 2.

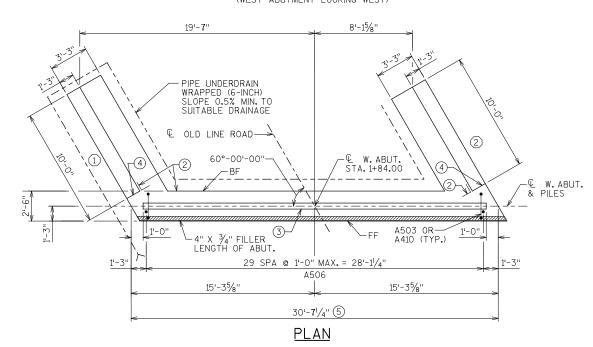
SECTION THRU ABUTMENT BODY ALL HORIZONTAL BARS NOT LABELED ARE A604 BARS

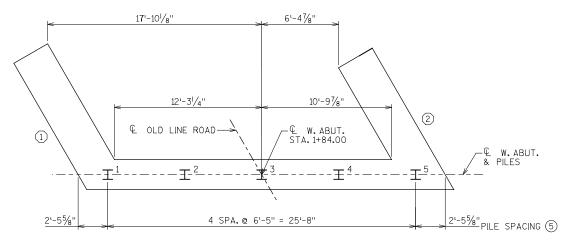


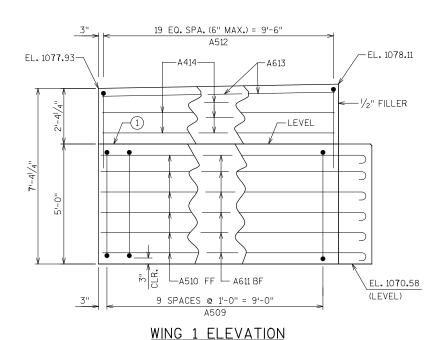
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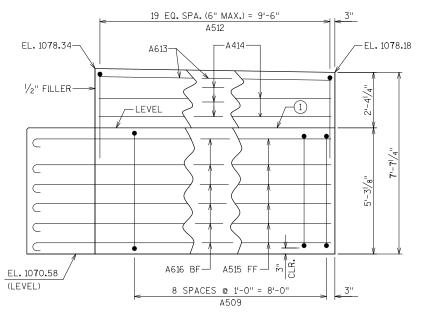


ELEVATION
(WEST ABUTMENT LOOKING WEST)

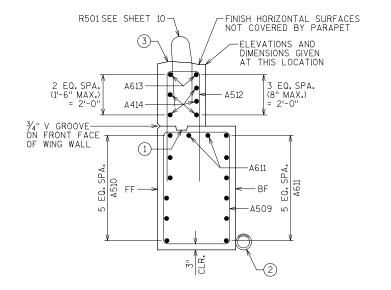








WING 2 ELEVATION

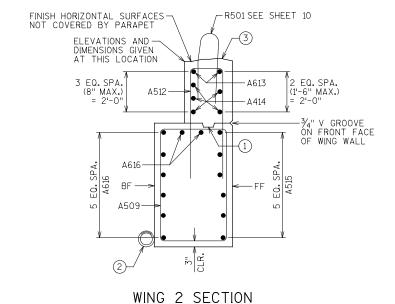


WING 1 SECTION

19 EQ. SPA. @ (6" MAX.) = 9'-6"

A512

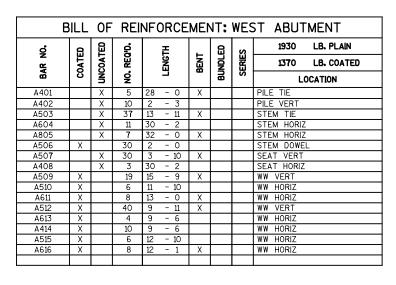
WING 1 PLAN



9 SPA. @ 1'-0" = 9'-0" 8 SPA. @ 1'-0" = 8'-0" A509 A509 — A611 -PIPE UNDERDRAIN (2) -PIPE UNDERDRAIN (2) A604 & A604-A805 A805 ABUT. -A613 & A414 -A613 & A414 └-A510 € ABUT.-

19 EQ. SPA. @ (6" MAX.) = 9'-6"

WING 2 PLAN



ALL REINFORCING BARS ARE ENGLISH.

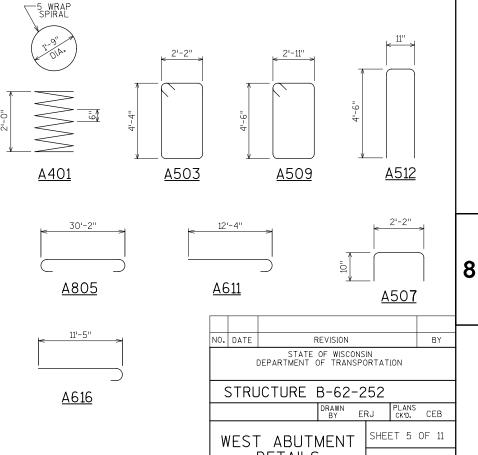
BAR DIMENSIONS IN BENDING DETAILS ARE OUT TO OUT OF BARS.

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

FF - FRONT FACE

EF - EACH FACE

- 1 OPTIONAL KEYED CONSTRUCTION JOINT FORMED BY BEVELED 2" X 6" KEYWAY, WITH MEMBRANE ON BACK FACE.
- 2 PIPE UNDERDRAIN WRAPPED (6-INCH), SLOPE 0.5% MIN. TO SUITABLE DRAINAGE.
- (3) STRIKE-OFF AS SHOWN AND LEAVE ROUGH.



<u>NOTES</u>

FOR PILE SPLICE SEE SHEET 2.

FILL/EXCAVATE TO BOTTOM OF ABUTMENT EL. 1071.14 BEFORE DRIVING

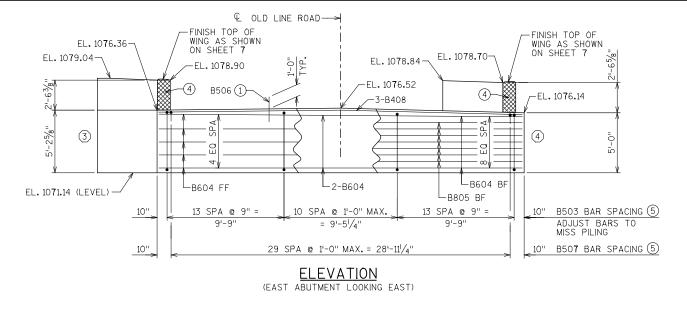
SEE SHEET 2 FOR STRUCTURE BACKFILL AND PIPE UNDERDRAIN DETAIL.

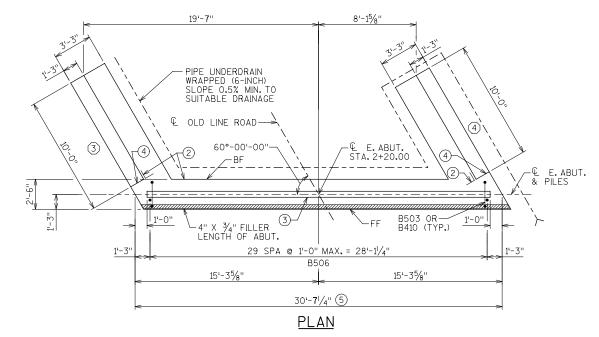
SEE FOUNDATION DATA ON SHEET 1 FOR PILING INFORMATION,

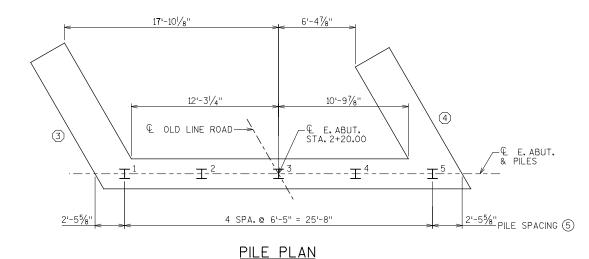
- (1) A506 BARS MAY BE PLACED AFTER CONCRETE IS POURED, BUT BEFORE INITIAL SET HAS TAKEN PLACE.
- 2 18" RUBBERIZED MEMBRANE WATERPROOFING, SEAL ALL HORIZONTAL AND VERTICAL JOINTS ON BACK FACE. EXTEND FROM BRIDGE SEAT TO TOP OF WING.
- $\ensuremath{ \begin{tabular}{lll} \hline \ensuremath{ \begin{tabular}$
- $\boxed{4}$ $\boxed{\prime}_2$ " FILLER TO EXTEND FROM BRIDGE SEAT TO TOP OF PARAPET, FILLER INCLUDED IN WING LENGTH. SEAL ALL EXPOSED HORIZONTAL AND VERTICAL SURFACES OF $\boxed{\prime}_2$ " FILLER WITH NON-STAINING GRAY NON-BITUMINOUS JOINT SEALER. (1" DEEP AND HOLD $\boxed{\prime}_8$ " BELOW SURFACE OF CONCRETE). EXTEND SEALER 3" BELOW GUTTER LINE AT INSIDE FACE.
- (5) MEASURED ALONG & OF ABUTMENT.

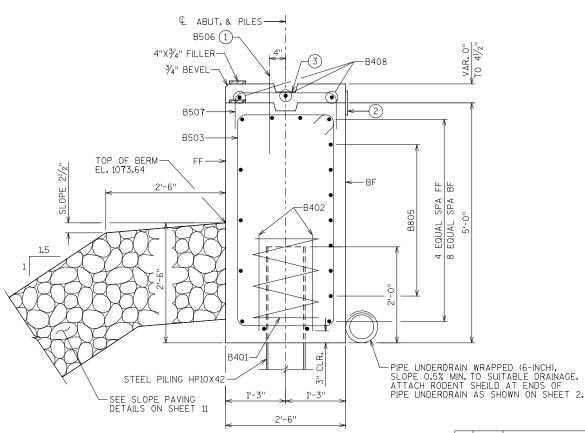
FF - FRONT FACE BF - BACK FACE

(X) DENOTES WING NUMBER.

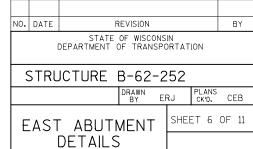








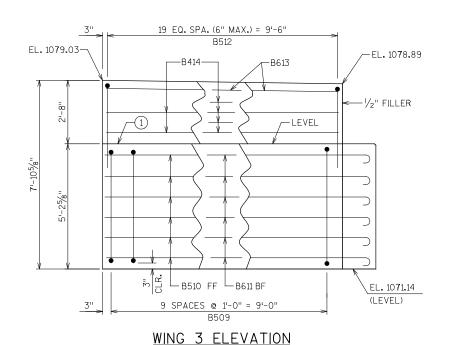
SECTION THRU ABUTMENT BODY ALL HORIZONTAL BARS NOT LABELED ARE B604 BARS

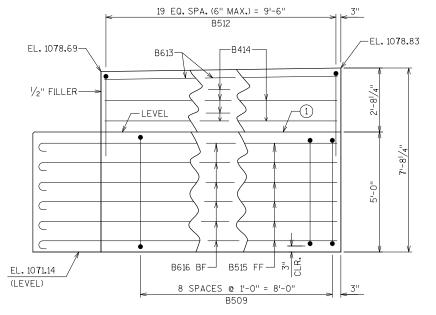


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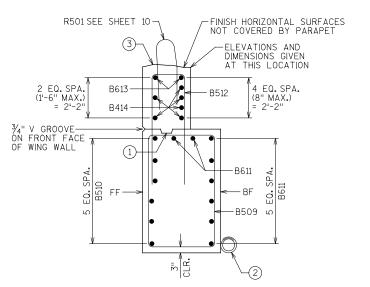
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PLOT DATE: 12/18/2017

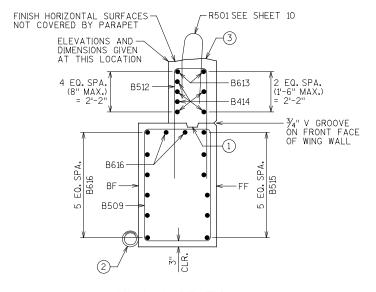




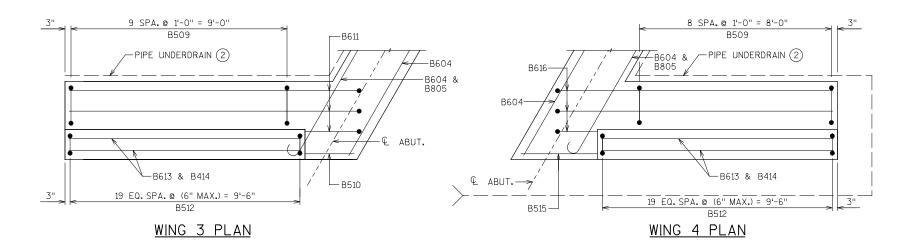
WING 4 ELEVATION

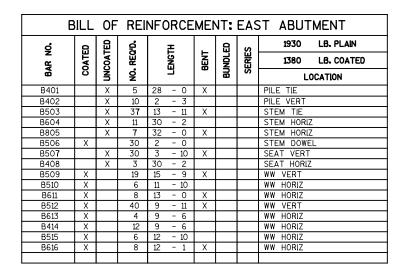


WING 3 SECTION



WING 4 SECTION





ALL REINFORCING BARS ARE ENGLISH.

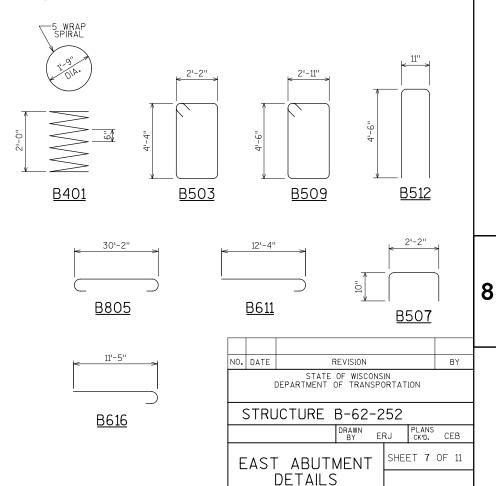
BAR DIMENSIONS IN BENDING DETAILS ARE OUT TO OUT OF BARS.

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

FF - FRONT FACE BF - BACK FACE

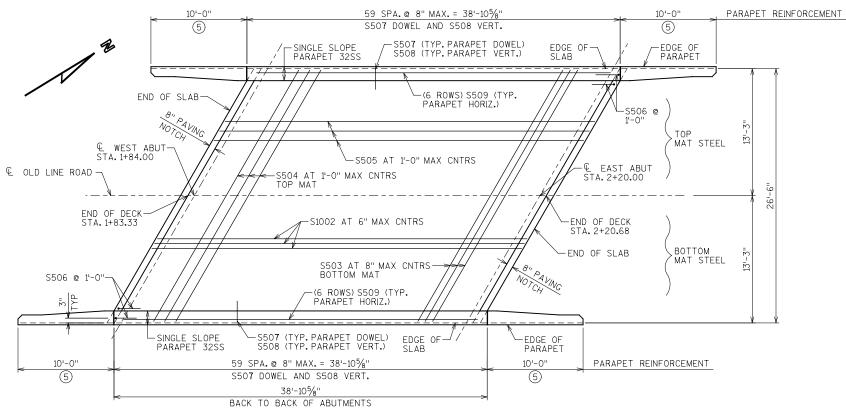
EF - EACH FACE

- ① OPTIONAL KEYED CONSTRUCTION JOINT FORMED BY BEVELED 2" X 6" KEYWAY, WITH MEMBRANE ON BACK FACE.
- 2) PIPE UNDERDRAIN WRAPPED (6-INCH), SLOPE 0.5% MIN. TO SUITABLE DRAINAGE.
- 3 STRIKE-OFF AS SHOWN AND LEAVE ROUGH.

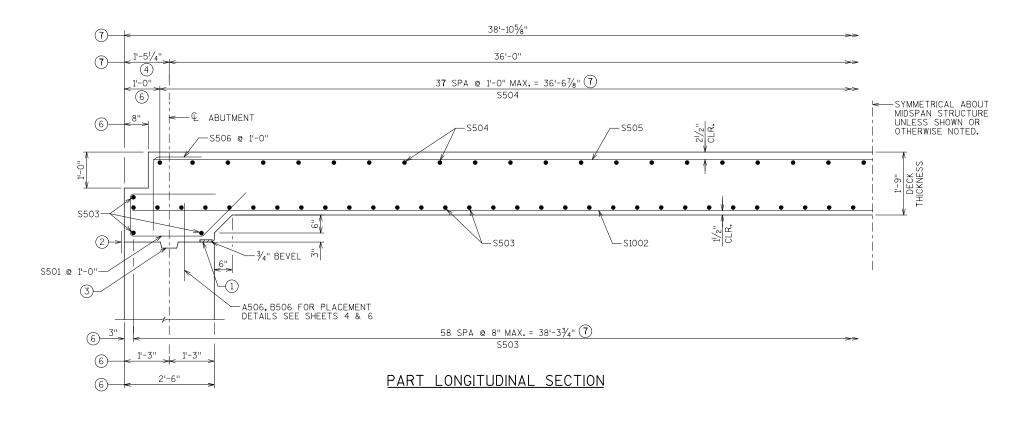


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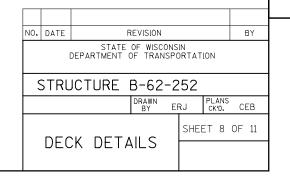


REINFORCEMENT PLAN



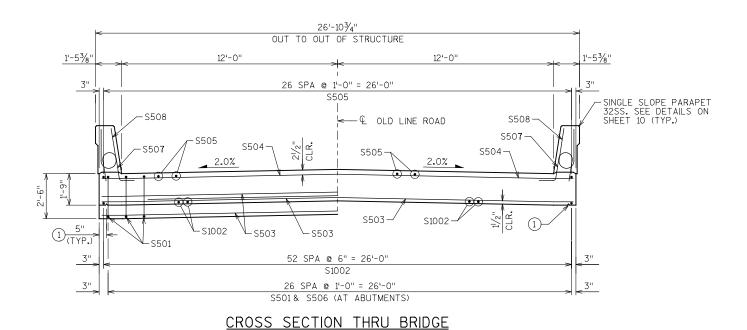
NOTES:

- 1) 4" X 3/4" FILLER.
- 2) 18" RUBBERIZED MEMBRANE WATERPROOFING (RMW) TO EXTEND FROM BRIDGE SEAT TO TOP OF WING AND BETWEEN INSIDE FACES OF WINGS, SEAL ALL HORIZONTAL AND VERTICAL JOINTS ON BACK FACE.
- $\ensuremath{\mathfrak{T}}$ Construction joint keyway formed by beveled 2" x 6".
- $\stackrel{ ext{\scriptsize (4)}}{ ext{\scriptsize DIMENSIONS}}$ FOR WEST ABUTMENT, 1'-5 $^3\!\%$ " FOR EAST ABUTMENT,
- (5) SEE PARAPET DETAILS ON SHEET 10 FOR BARS TO BE PLACED ON WINGWALLS.
- 6 MEASURED PERPENDICULAR TO CENTERLINE OF ABUTMENT.
- 7 MEASURED PARALLEL TO ROADWAY CENTERLINE.

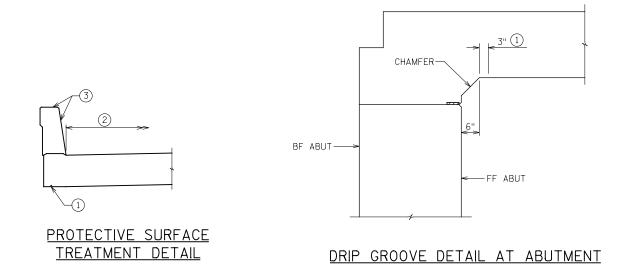


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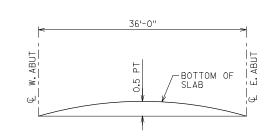
PLOT DATE: 12/18/2017



2'-4" 45° 2'-6" S501 S508 S508



CAMBER
(IN)
0
3/8
5/8
7/8
1
11/8
1
7∕8
5/8
3/8
0



CAMBER DIAGRAM

CAMBER SPAN AS SHOWN (USING VALUES IN TABLE)
TO PROVIDE FOR DEAD LOAD DEFLECTION AND FUTURE
CREEP, CAMBER DOES NOT INCLUDE ALLOWANCE FOR
FORM SETTLEMENT.

BILL OF REINFORCEMENT: SUPERSTRUCTURE										
Š.	Q:	Œ.	ě	Ħ		B	s	O LB. PLAIN		
BAR N	COATED	UNCOATED	REQ'D.	ENGTH	BENT	BUNDLED	SERIES	15370 LB. COATED		
8	8	<u>š</u>	ğ	-		🖀	∞	LOCATION		
S501	Х		54	7 - 11	Х			END VERT		
S1002	Х		53	38 - 5				LONG BOT		
S503	Х		65	30 - 3				TRANS BOT		
S504	Х		38	30 - 3				TRANS TOP		
S505	Х		27	37 - 0				LONG TOP		
S506	Х		54	3 - 7	Х			END VERT		
S50 7	Х		120	4 - 5	Х			PARAPET VERT		
S508	Х		120	5 - 0	Х			PARAPET VERT		
S509	Х		12	38 - 6				PARAPET HORIZ		

ALL REINFORCING BARS ARE ENGLISH.

BAR DIMENSIONS IN BENDING DETAILS ARE OUT TO OUT OF BARS.

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

EDGE OF DECK ELEVATIONS

	NORT	H EDGE	CENTERL	INE/CROWN	SOUTH EDGE		
SPAN PT.	STATION	ELEVATION	STATION	ELEVATION	STATION	ELEVATION	
W. ABUT.	1+76.36	1077.99	1+84.00	1078.48	1+91,65	1078.25	
0.1	1+79.96	1078.05	1+87.60	1078.54	1+95.25	1078.30	
0.2	1+83.56	1078.11	1+91,20	1078.60	1+98.85	1078.35	
0.3	1+87.16	1078.17	1+94.80	1078.66	2+02.45	1078.41	
0.4	1+90.76	1078.23	1+98.40	1078.71	2+06.05	1078.46	
0.5	1+94.36	1078.29	2+02.00	1078.76	2+09.65	1078.51	
0.6	1+97.96	1078.34	2+05.60	1078.81	2+13.25	1078.56	
0.7	2+01.56	1078.39	2+09,20	1078.86	2+16.85	1078.61	
0.8	2+05.16	1078.45	2+12.80	1078.92	2+20.45	1078.67	
0.9	2+08 .7 6	1078.50	2+16.40	1078.97	2+24.05	1078.72	
E. ABUT.	2+12.36	1078.55	2+20.00	1079.02	2+27.65	1078.77	

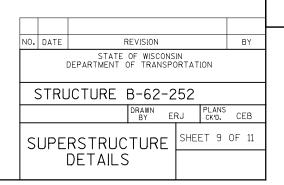
NOTES:

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

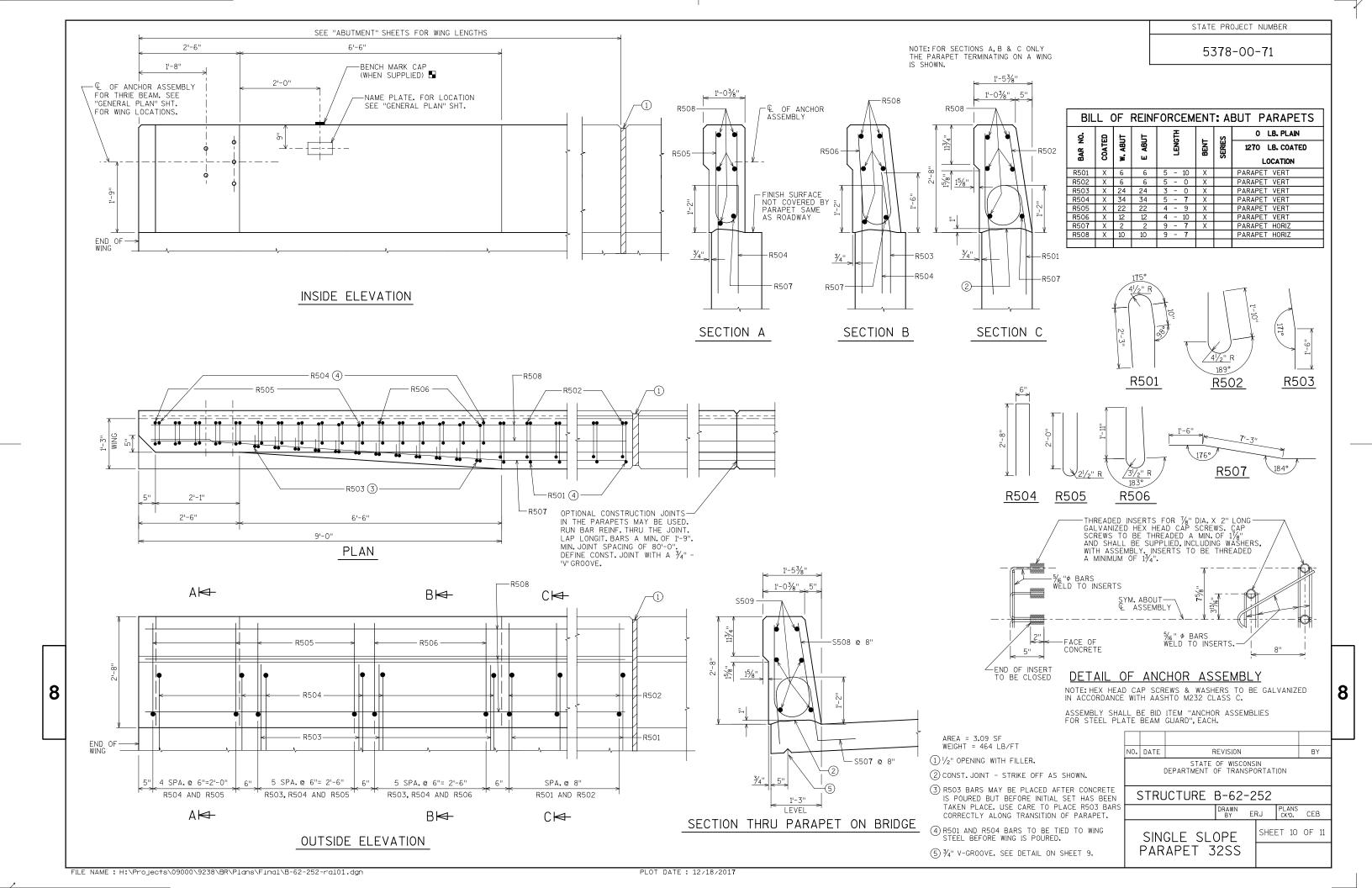
TOP TRANSVERSE BARS IN SLAB SHALL BE SUPPORTED BY INDIVIDUAL BAR CHAIRS AT APPROXIMATELY 3'-O" CENTERS EACH WAY. BOTTOM LONGITUDINAL BARS SHALL BE SUPPORTED BY CONTINUOUS BAR CHAIRS AT APPROXIMATELY 4'-O" CENTERS.

PRIOR TO RELEASING SLAB FALSEWORK, TAKE TOP OF SLAB ELEVATIONS AT THE $\mathbb Q$ OF ABUTMENTS AND AT 0.5 SLAB PT. TO VERIFY CAMBER. TAKE ELEVATIONS ALONG EDGE OF DECK AND AT $\mathbb Q$.

- $\textcircled{\scriptsize{1}}$ $\ensuremath{\ensuremath{\mbox{3''}}}\xspace V-GROOVE, TERMINATE 3" FROM CHAMFER AT ABUTMENTS, SEE DETAIL ON THIS SHEET.$
- (2) COAT WITH "PROTECTIVE SURFACE TREATMENT" AS PER THE STANDARD SPECIFICATIONS.
- (3) COAT WITH "PIGMENTED SURFACE SEALER" AS PER THE STANDARD SPECIFICATIONS.

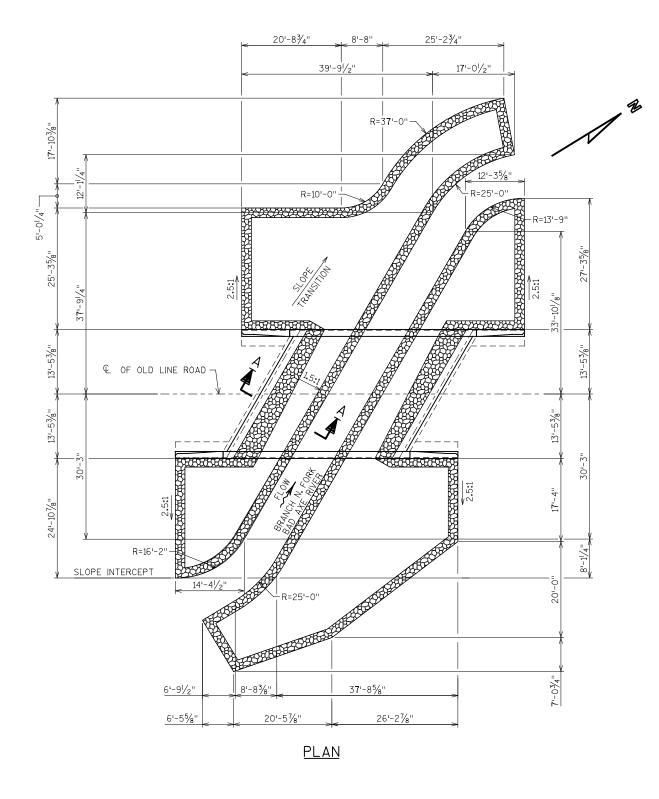


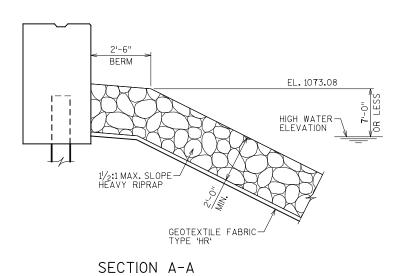
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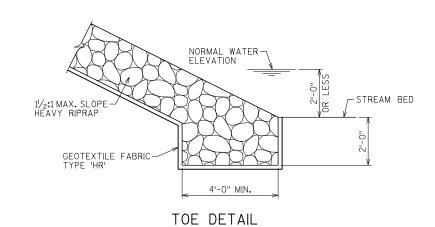


STATE PROJECT NUMBER

5378-00-71







NORMAL WATER ELEVATION </=2'-0" ABOVE STREAM BED

<u>NOTES</u>

HEAVY RIPRAP, PLACE GEOTEXTILE FABRIC TYPE "HR" BELOW IT.

1. SEE CIVIL PLANS FOR STREAM REALIGNMENT FOR ADDITIONAL GEOMETRIC INFORMATION AND RIPRAP LIMITS.

NO. DATE REVISION BY													
STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION													
STRUCTURE B-62-252													
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PLOT DATE: 12/18/2017

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CHANNEL REALIGNMENT

				AREA (SF)							Incremental Vol (CY) (Unadjusted)			Cumulative Vol (CY)							
STATION	REAL STATION	DISTANCE	CUT	SALVAGED / UNUSABLE PAVEMENT MATERIAL	FILL	MARSH EXC	ROCK EXC	EBS	СИТ	SALVAGED / UNUSABLE PAVEMENT MATERIAL	FILL	MARSH EXC	ROCK EXC	EBS	Cut	EXPANDED FILL	EXPANDED MARSH BACKFILL	EXPANDED ROCK	EXPANDED EBS BACKFILL	REDUCED MARSH IN FILL	REDUCED EBS IN FILL	MASS ORDINATE
				MATERIAL											1.00	1.25	1.00	1.00	1.00	1.00	1.00	
									NOTE 1	NOTE 2	NOTE 3				NOTE 1		NOTE 4		NOTE 5	NOTE 6	NOTE 7	NOTE 8
00+25	25.00	0.00	44.44	0.00	11.39	0.00	0.00	0.00	0	0	0	0	0	0	0	0	0	0	0	0	0	0
00+40	40.00	15.00	46.56	0.00	39.80	0.00	0.00	0.00	25	0	14	0	0	0	25	18	0	0	0	0	0	8
00+55	55.00	15.00	28.44	0.00	56.08	0.00	0.00	0.00	21	0	27	0	0	0	46	51	0	0	0	0	0	-5
00+74.02	74.02	19.02	28.09	0.00	36.86	0.00	0.00	0.00	20	0	33	0	0	0	66	92	0	0	0	0	0	-26
00+88.06	88.06	14.04	67.30	0.00	40.66	0.00	0.00	0.00	25	0	20	0	0	0	91	117	0	0	0	0	0	-26
01+05	105.00	16.94	34.37	0.00	48.87	0.00	0.00	0.00	32	0	28	0	0	0	123	152	0	0	0	0	0	-30
01+20	120.00	15.00	64.06	0.00	40.24	0.00	0.00	0.00	27	0	25	0	0	0	150	183	0	0	0	0	0	-33
01+30	130.00	10.00	68.63	0.00	15.86	0.00	0.00	0.00	25	0	10	0	0	0	175	196	0	0	0	0	0	-22
01+40	140.00	10.00	72.23	0.00	0.02	0.00	0.00	0.00	26	0	3	0	0	0	201	200	0	0	0	0	0	1
01+50	150.00	10.00	76.93	0.00	0.35	0.00	0.00	0.00	28	0	0	0	0	0	228	200	0	0	0	0	0	28
01+60	160.00	10.00	61.84	0.00	0.00	0.00	0.00	0.00	26	0	0	0	0	0	254	200	0	0	0	0	0	54
01+70	170.00	10.00	36.29	0.00	0.00	0.00	0.00	0.00	18	0	0	0	0	0	272	200	0	0	0	0	0	72
01+70	170.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0	0	0	0	0	0	272	200	0	0	0	0	0	72
01+80	180.00	10.00	14.81	0.00	0.00	0.00	0.00	0.00	3	0	0	0	0	0	275	200	0	0	0	0	0	75
01+90	190.00	10.00	3.61	0.00	0.01	0.00	0.00	0.00	3	0	0	0	0	0	278	200	0	0	0	0	0	78
01+96.54	196.54	6.54	0.00	0.00	0.00	0.00	0.00	0.00	0	0	0	0	0	0	279	200	0	0	0	0	0	79
									279	0	160	0	0	0								

9

PROJECT NO: 5378-00-71 HWY: OLD LINE ROAD COUNTY: VERNON EARTHWORK SHEET **E**

FILE NAME: P:\Wisdot\9238\DESIGN\QUANTITIES\9238-EARTHWORKDATASHEET.DWG PLOT DATE: 1/28/2018 11:23 PM PLOT BY: RACHEL BURNHAM PLOT NAME: PLOT NAME: PLOT SCALE: ########### Wisdot/cadds sheet LAYOUT NAME - EWQ_01

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OLD LINE ROAD

					A	AREA (SF)					Incremental Vol (CY) (Unadjusted)			Cumulative Vol (CY)							
STATION	REAL STATION	DISTANCE	CUT	SALVAGED / UNUSABLE PAVEMENT	FILL	MARSH EXC	ROCK EXC	EBS	CUT	SALVAGED / UNUSABLE PAVEMENT MATERIAL	FILL	MARSH EXC	ROCK EXC	EBS	Cut	EXPANDED FILL	EXPANDED MARSH BACKFILL	EXPANDED ROCK	EXPANDED EBS BACKFILL	REDUCED MARSH IN FILL	REDUCED EBS IN FILL	MASS ORDINATE
				MATERIAL		İ									1.00	1.25	1.00	1.00	1.00	1.00	1.00	
									NOTE 1	NOTE 2	NOTE 3				NOTE 1		NOTE 4		NOTE 5	NOTE 6	NOTE 7	NOTE 8
00+92.48	92.48	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0	0	0	0	0	0	0	0	0	0	0	0	0	0
01+00	100.00	7.52	24.06	0.00	0.15	0.00	0.00	0.00	3	0	0	0	0	0	3	0	0	0	0	0	0	3
01+25	125.00	25.00	24.41	0.00	0.00	0.00	0.00	0.00	22	0	0	0	0	0	26	0	0	0	0	0	0	26
01+50	150.00	25.00	22.57	0.00	26.31	0.00	0.00	0.00	22	0	12	0	0	0	48	15	0	0	0	0	0	32
01+68.3	168.30	18.30	20.12	0.00	19.00	0.00	0.00	0.00	14	0	15	0	0	0	62	35	0	0	0	0	0	27
									62	0	28	0	0	0								
02+41.45	241.45	0.00	20.70	0.00	82.75	0.00	0.00	0.00	0	0	0	0	0	0	0	0	0	0	0	0	0	0
02+50	250.00	8.55	22.20	0.00	44.96	0.00	0.00	0.00	7	0	20	0	0	0	7	25	0	0	0	0	0	-18
02+75	275.00	25.00	23.62	0.00	18.31	0.00	0.00	0.00	21	0	29	0	0	0	28	62	0	0	0	0	0	-34
03+00	300.00	25.00	22.08	0.00	1.39	0.00	0.00	0.00	21	0	9	0	0	0	49	73	0	0	0	0	0	-24
03+09.03	309.03	9.03	22.32	0.00	0.66	0.00	0.00	0.00	7	0	0	0	0	0	57	74	0	0	0	0	0	-17
								57	0	59	0	0	0		·							

Notes:

Cut includes Salvaged/Unusable Pavement material 1 - Cut

2 - Salvaged/Unusable Pavement Material This does not show up in cross sections

3 - Fill Does not include Unusable Pavement Exc volume

4 - Expanded Marsh Backfill Will be backfilled with Granular Backfill (or Cut, or Borrow) 5 - Expanded EBS Will be backfilled with Granular Backfill (or Cut, or Borrow)

6 - Reduced Marsh in Fill Reduced Marsh Excavation that can be used in Fill 7 - Reduced EBS in Fill Reduced EBS Excavation that can be used in Fill

If Marsh or EBS to be backfilled with Cut or Borrow: [(Cut + Marsh Exc + EBS) - ((Fill - Reduced Marsh in Fill) - (Reduced EBS in Fill) - Expanded Rock) * Fill Factor)] EBS and Marsh Exc used outside 1:1 in fill slopes 8 - Mass Ordinate

If Marsh and EBS to be backfilled with Granular: [(Cut + EBS + Marsh Exc) - ((Fill - (Reduced Marsh in Fill) - (Reduced EBS in Fill) - (Expanded Rock)) * Fill Factor))] EBS and Marsh Exc used outside 1:1 in fill slopes 8 - Mass Ordinate If Marsh and EBS to be backfilled with Granular: [(Cut) - ((Fill - Expanded Rock) * Fill Factor))] Marsh and EBS are not usable outside the 1:1 slopes 8 - Mass Ordinate

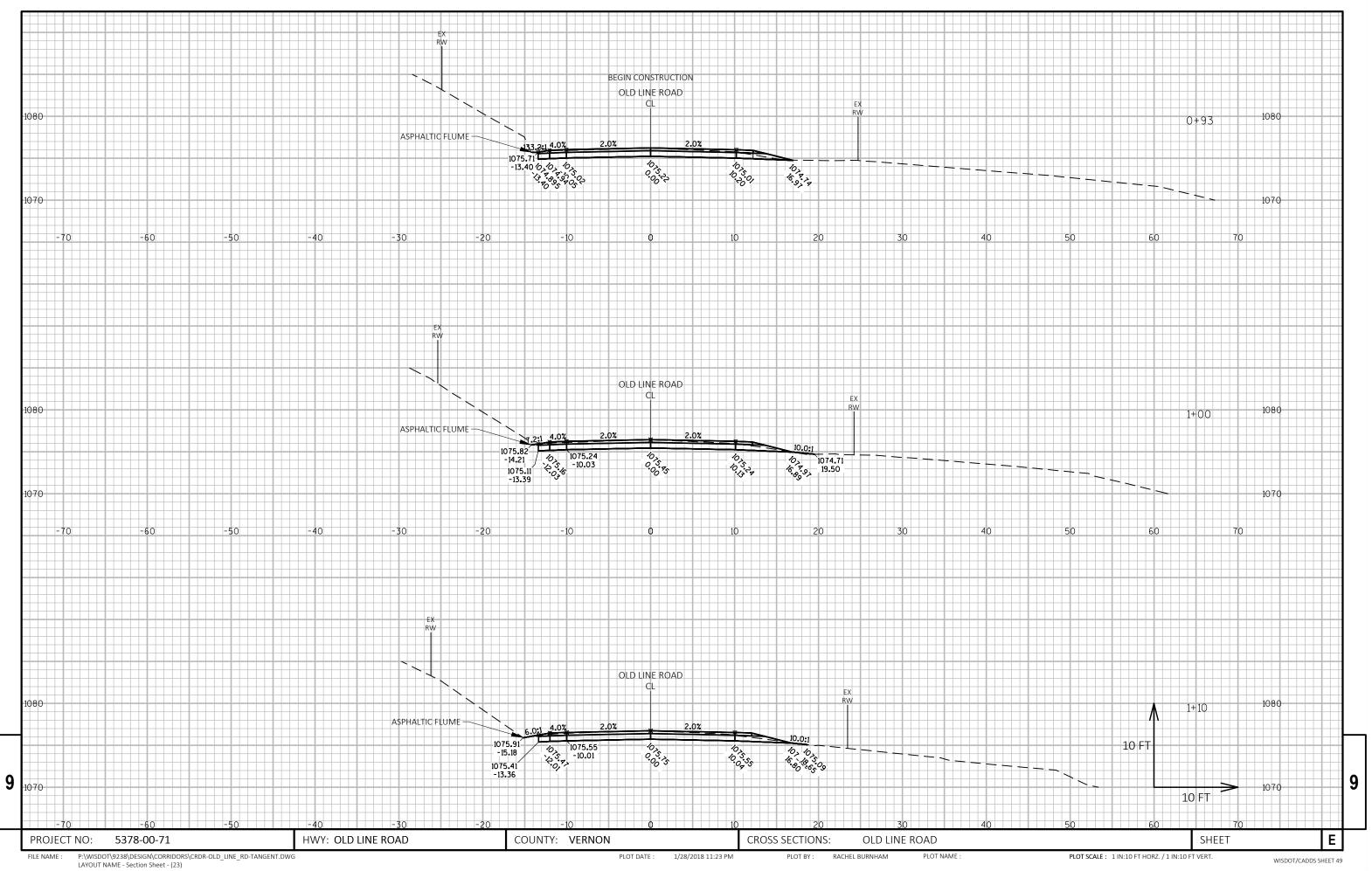
8 - Mass Ordinate If Marsh and EBS to be backfilled with Cut or Borrow: [(Cut) - ((Fill - Expanded Rock) * Fill Factor))] Marsh and EBS are not usable outside the 1:1 slopes

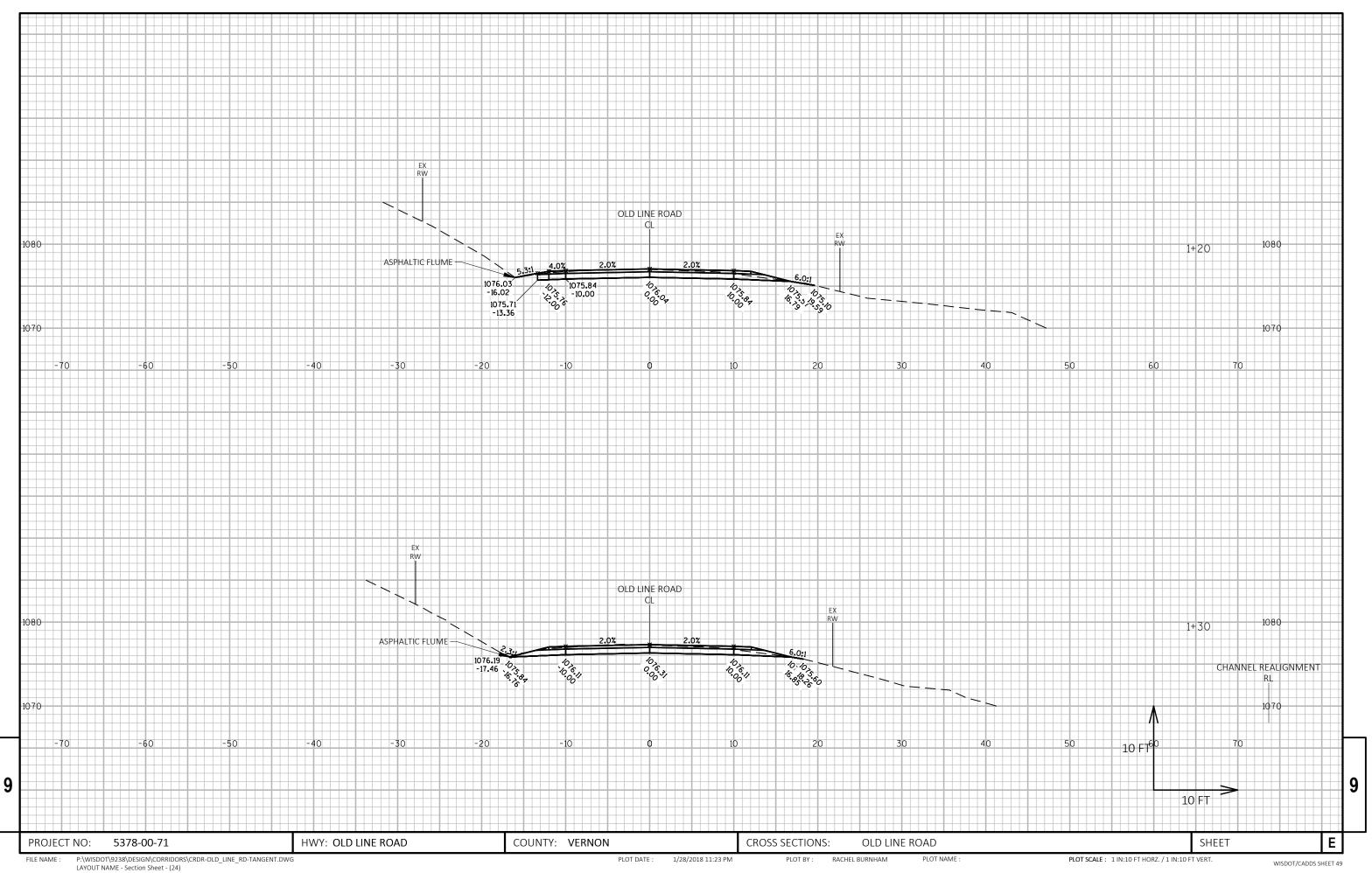
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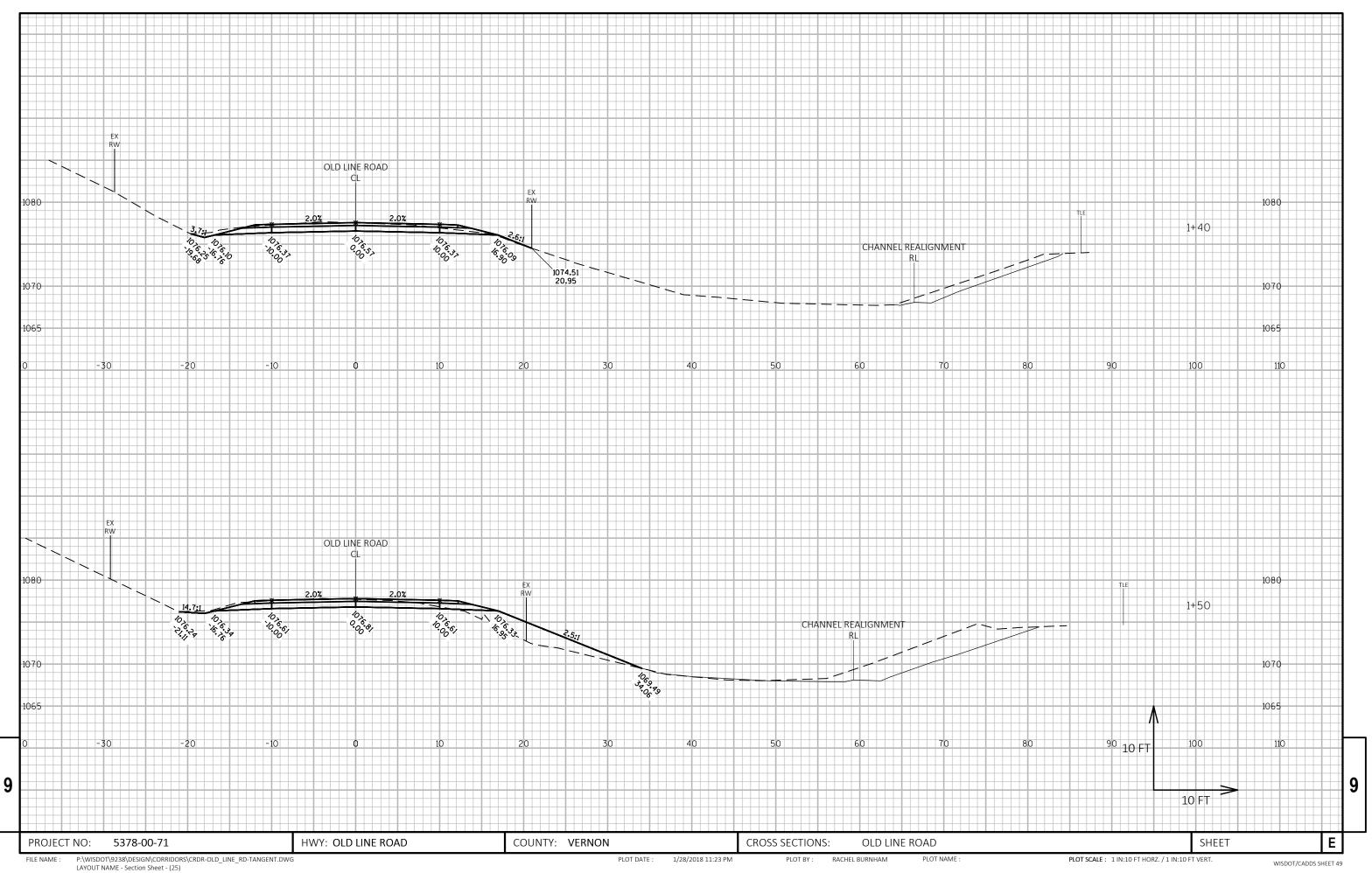
LAYOUT NAME - EWQ_02

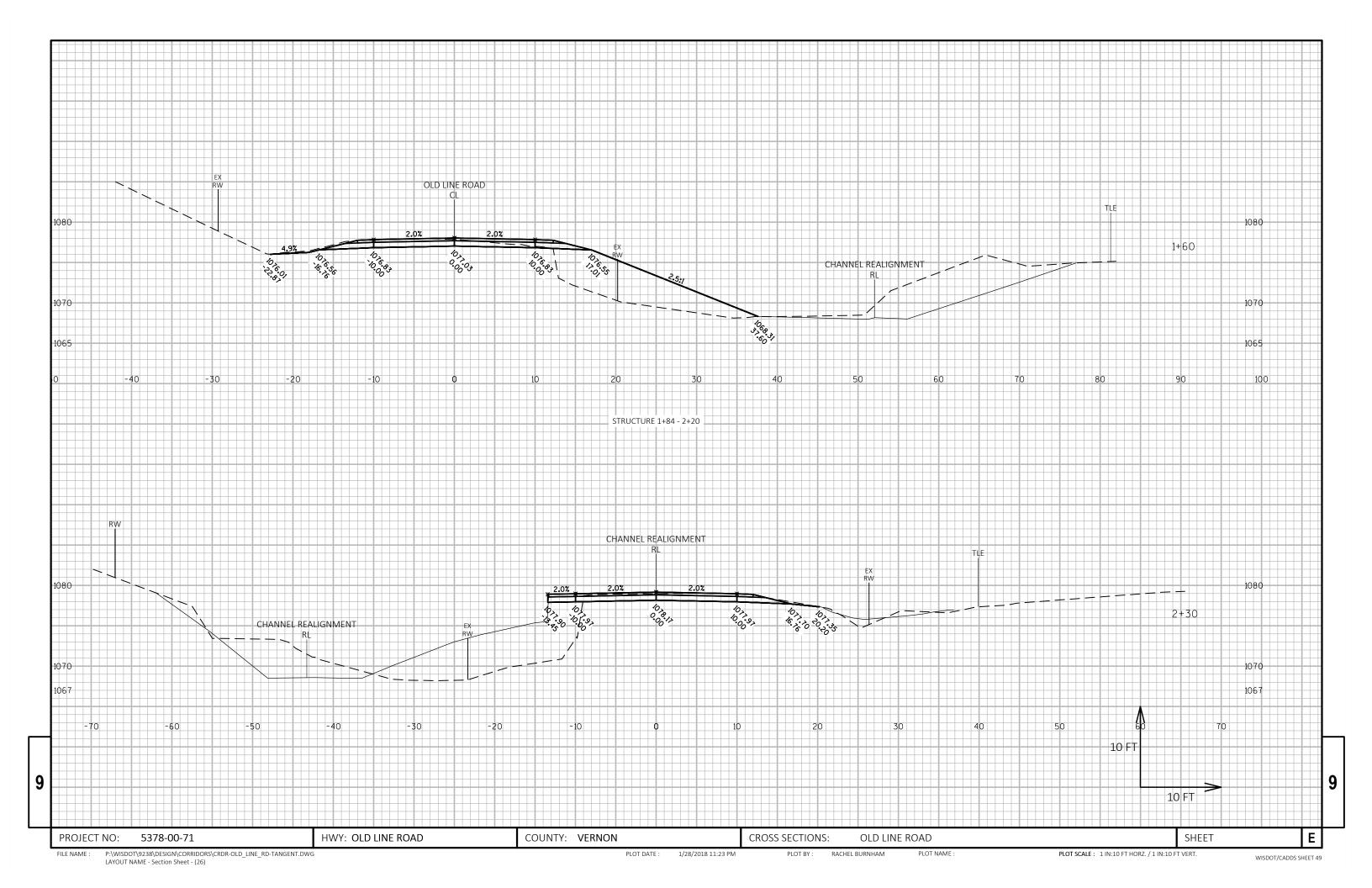
1/28/2018 11:23 PM PLOT BY: RACHEL BURNHAM PLOT NAME : PLOT SCALE : ############ WISDOT/CADDS SHEET

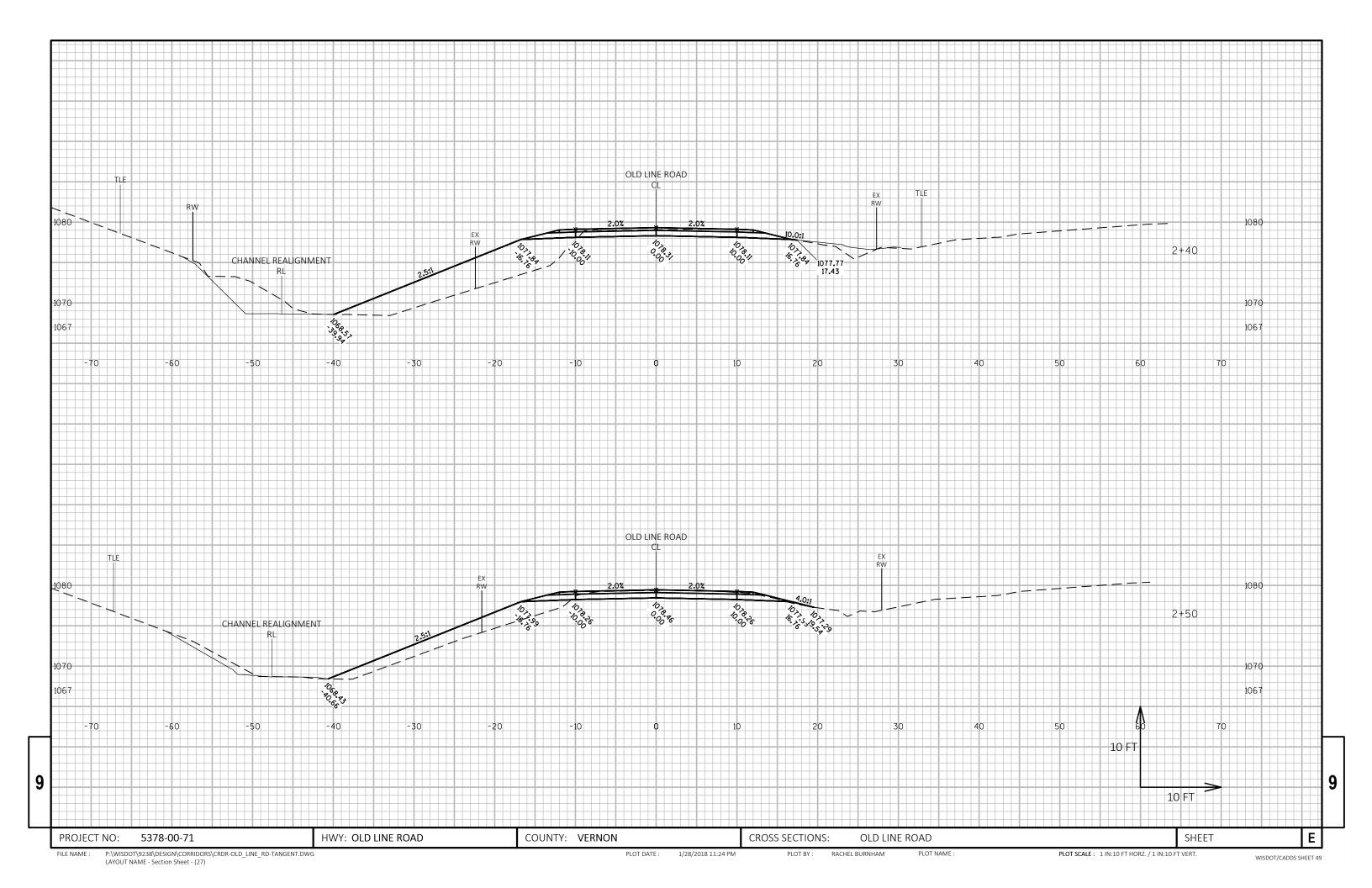
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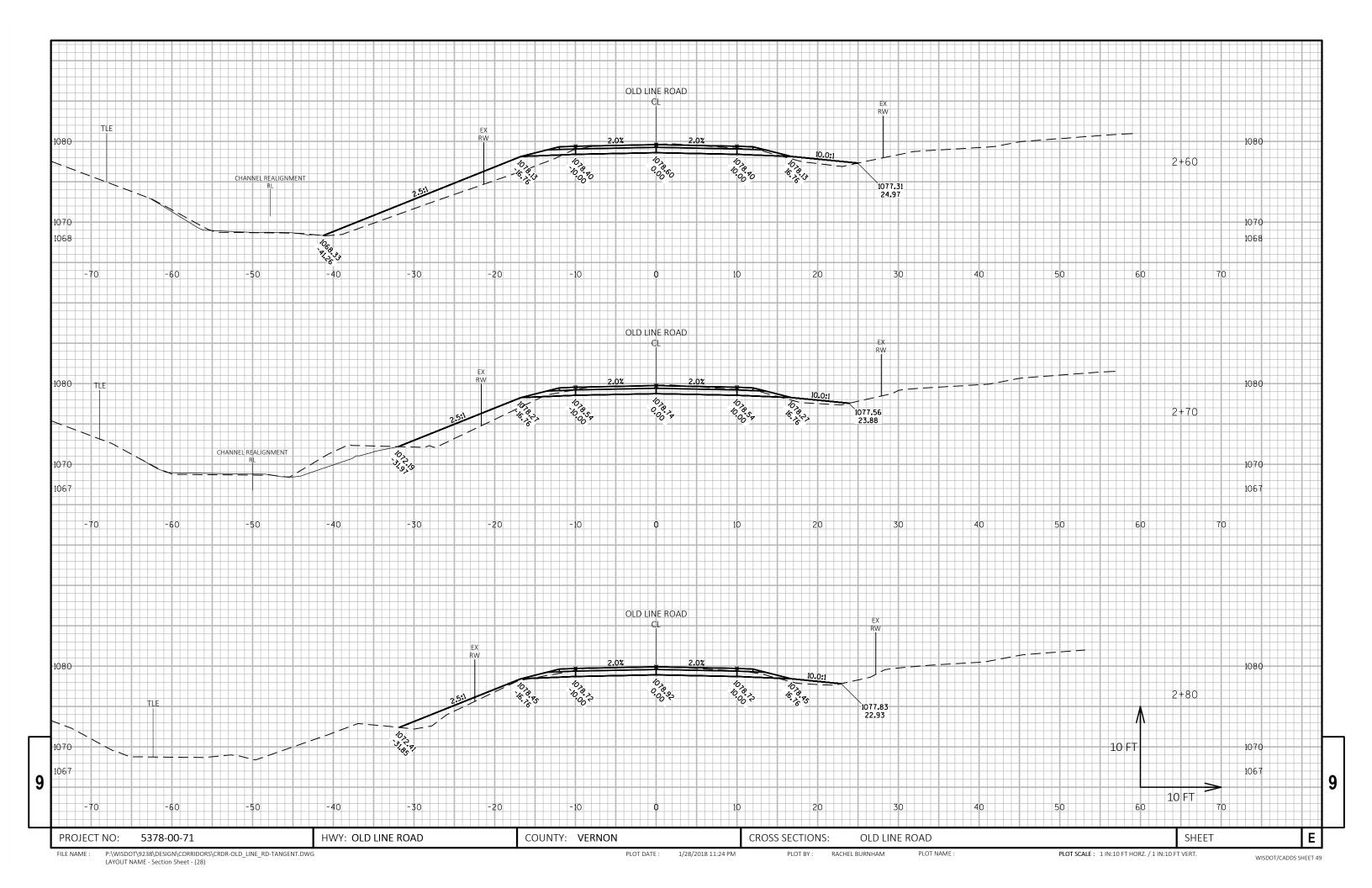












Notes



Wisconsin Department of Transportation

Dedicated people creating transportation solutions through innovation and exceptional service.

http://www.dot.wisconsin.gov