ORDER OF SHEETS Section No. 1

SEPTEMBER 2017

STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION

PLAN OF PROPOSED IMPROVEMENT

Estimate of Quantitles Miscellaneous Quantities

Right of Way Plat Plan and Profile (Includes Erosion Control Plan) Section No. 5

Typical Sections and Details

Section No. 6 Standard Detail Drawings Section No. 7

Section No. 8 Structure Plans

Section No. 9 Computer Earthwork Data

Cross Sections

TOTAL SHEETS = 56

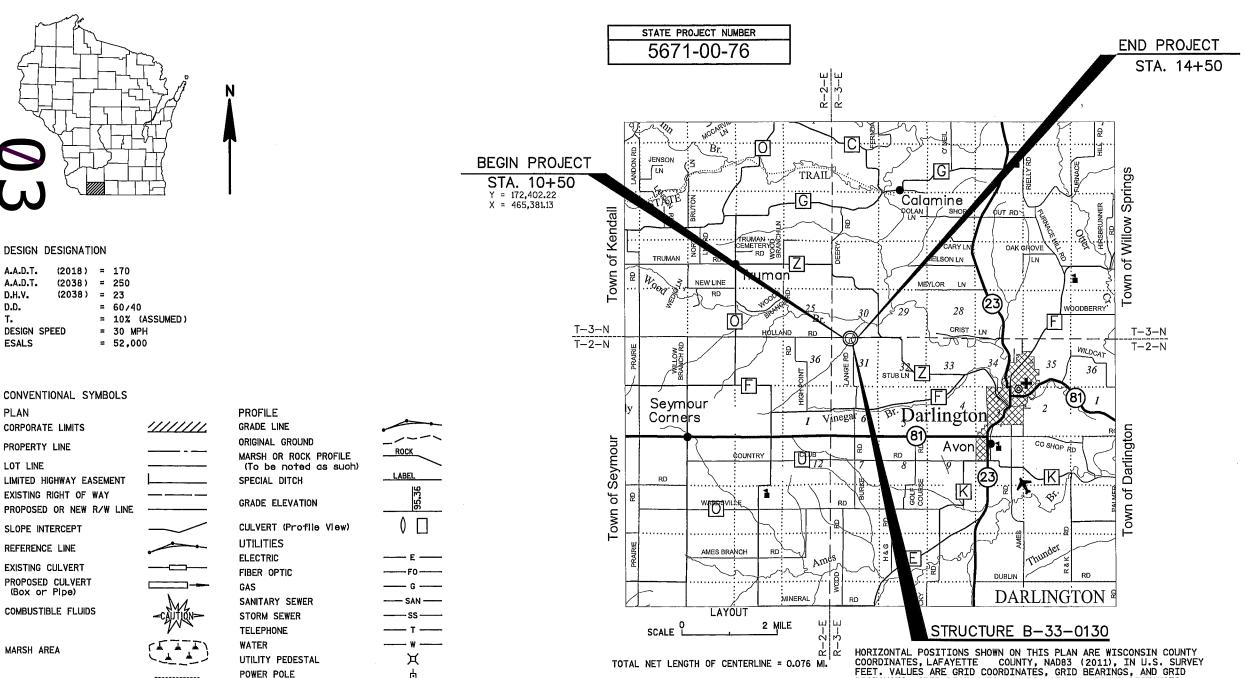
WOODED OR SHRUB AREA

TOWN OF DARLINGTON, HOLLAND ROAD

(BRANCH WOODS BRANCH BRIDGE B-33-0130)

TOWN ROAD

LAFAYETTE COUNTY



STATE PROJECT	FEDERAL PROJECT					
STATE PROJECT	PROJECT	CONTRACT				
5671-00-76	WISC 2017451	1				



JEWELL ASSOCIATES ENGINEERS, INC.

POWER POLE

TELEPHONE POLE

DISTANCES. GRID DISTANCES MAY BE USED AS GROUND DISTANCES.

PLOT NAME :

LIST OF STANDARD ABBREVIATIONS

CR Creek Easement SE Superelevation CR Crushed PT Point SL or S/L Survey Line CY or CU YD Cubic Yard PC Point of Curvature SV Septic Vent CP Culvert Pipe PI Point of Intersection T Tangent C & G Curb and Gutter PRC Point of Reverse Curvature TEL Telephone		LIST	OF STAIN	JAKU ABBKENIA III	JNO	
ACC Acre IP Iron Pipe or Pin SAN S Sanitary Sewer AGG Aggregate IRS Iron Rod Set SEC Section AH Ahead JT Joint SHLDR Shoulder ASPH Asphaltic LHF Left—Hand Forward SW Sidewalk AVC Average LUF Left—Hand Forward SW Sidewalk AVT Average Daily Traffic LIN FT or LF Linear Foot SQ Square BAD Base Aggregate Dense LC Long Chord of Curve SF or SQ FT Square Peet BK Back Rack MH Manhole SY or SQ YD Square Peet BK Back Face MB Milbox STD Standard BM Bench Mark ML or M/L Match Line SDD Standard BR Bridge N North Grid Coordinate STA State Trunk Highways C C Center Line Y North Grid Coordinate STA S	ARUT	Abutment	INV	Invert	SALV	Salvaged
AGG Agaregate IRS Iron Röd Set SEC Section' AH A head JT Joint SHLDR Shoulder Angle JCT Junction SHR Shrinkage ASPH Asphaltic LHF Left-Hand Forward SW Sidewalk AVC Average LI Length of Curve S South ADT Average Daily Traffic LIN FT or LF BAD Base Aggregate Dense LC Long Chord of Curve S South BSC Square Feet BK Back MH Manhole SY OF Square Feet BK Back Roce MB Milbox STD Standard BM Bench Mark ML or M/L Match Line SDD Standard Detail Drawings BR Bridge N North Grid Coordinate STH State Trunk Highways C or C/L Center Line Y North Grid Coordinate STH State Trunk Highways C or C/L Center to Center OD Outside Diameter SS Storm Sewer CTH County Trunk Highway PLE Permanent Limited SG Subgrade CR Creek Easement SE Subgrade CR Crushed PT Point of Curvature SV Septic Vent CP Culvert Pipe PI Point of Curvature SV Septic Vent CP Culvert Pipe PI Point of Reverse Curvature D Degree of Curve PT Point of Reverse Curvature D Degree of Curve PT Point of Reverse Curvature D Degree of Curve PT Point of Reverse Curvature D Degree of Curve PT Point of Reverse Curvature E East PVC Polywiny Chloride X East Grid Coordinate PCC Portland Cement Concrete ELEC Electric (al) LB Pound Cement Concrete ELEC Electric (al) LB Pound Point on Curve To Transit Line ESALS Equation Below Subgrade FF Field Entrance RCP Reference Line FF Field Entrance RCP Reference Point FF Foot RCP RCP Reference Point FF Field Entrance RCP Reference Line FF Field Entrance RCP Reference Point FF Field Entrance RCP RC						
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EBS Excavation Below Subgrade RR Railroad TYP Typical FF Face to Face R Range UNCL Unclassified FE Field Entrance RL or R/L Reference Line UG Underground Cable F Fill RP Reference Point USH United States Highway FG Finished Grade RCCP Reinforced Concrete VAR Variable FL or F/L Flow Line Culvert Pipe V Velocity or Design Speed FT Foot REQ'D Required VERT Vertical FTG Footing RES Residence or Residential VC Vertical Curve GN Grid North RW Retaining Wall VOL Volume HT Height RT Right WM Water Main CWT Hundredweight RHF Right—Hand Forward WV Water Valve HYD Hydrant R/W Right—of—Way W West INL Inlet R R River WB Westbound ID Inside Diameter RD Road YD Yard	LOMES					
FF Face to Face R Range UNCL Unclassified FE Field Entrance RL or R/L Reference Line UG Underground Cable FF Fill RP Reference Point USH United States Highway FG Finished Grade RCCP Reinforced Concrete VAR Variable FL or F/L Flow Line Culvert Pipe V Velocity or Design Speed FT Foot REQ'D Required VERT Vertical FTG Footing RES Residence or Residential VC Vertical Curve GN Grid North RW Retaining Wall VOL Volume HT Height RT Right WM Water Main CWT Hundredweight RHF Right—Hand Forward WV Water Valve HYD Hydrant R/W Right—of—Way W West INL Inlet R R River WB Westbound ID Inside Diameter RD Road YD Yard	FRS					
FE Field Entrance RL or R/L Reference Line UG Underground Cable Fill RP Reference Point USH United States Highway FG Finished Grade RCCP Reinforced Concrete VAR Variable FL or F/L Flow Line Culvert Pipe V Velocity or Design Speed FT Foot REQ'D Required VERT Vertical FTG Footing RES Residence or Residential VC Vertical Curve GN Grid North RW Retaining Wall VOL Volume HT Height RT Right WM Water Main CWT Hundredweight RHF Right—Hand Forward WV Water Valve HYD Hydrant R/W Right—of—Way W West INL Inlet R R River WB Westbound ID Inside Diameter RD Road YD Yard						
Fill RP Reference Point USH United States Highway FG Finished Grade RCCP Reinforced Concrete VAR Variable FL or F/L Flow Line Culvert Pipe V Velocity or Design Speed FT Foot REQ'D Required VERT Vertical Curve FTG Footing RES Residence or Residential VC Vertical Curve GN Grid North RW Retaining Wall VOL Volume HT Height RT Right WM Water Main CWT Hundredweight RHF Right—Hand Forward WV Water Valve HYD Hydrant R/W Right—of—Way W West INL Inlet R R River WB Westbound ID Inside Diameter RD Road YD Yard						
FG Finished Grade RCCP Reinforced Concrete VAR Variable FL or F/L Flow Line Culvert Pipe V Velocity or Design Speed FT Foot REQ'D Required VERT Vertical FTG Footing RES Residence or Residential VC Vertical Curve GN Grid North RW Retaining Wall VOL Volume HT Height RT Right WM Water Main CWT Hundredweight RHF Right—Hand Forward WV Water Valve HYD Hydrant R/W Right—of—Way W West INL Inlet R R River WB Westbound ID Inside Diameter RD Road YD Yard						
FL or F/L Flow Line Culvert Pipe V Velocity or Design Speed FT Foot REQ'D Required VERT Vertical FTG Footing RES Residence or Residential VC Vertical Curve GN Grid North RW Retaining Wall VOL Volume HT Height RT Right WM Water Main CWT Hundredweight RHF Right—Hand Forward WV Water Valve HYD Hydrant R/W Right—of—Way W West INL Inlet R R River WB Westbound ID Inside Diameter RD Road YD Yard						
FT Foot REQ'D Required VERT Vertical FTG Footing RES Residence or Residential VC Vertical Curve GN Grid North RW Retaining Wall VOL Volume HT Height RT Right WM Water Main CWT Hundredweight RHF Right—Hand Forward WV Water Valve HYD Hydrant R/W Right—of—Way W West INL Inlet R R River WB Westbound ID Inside Diameter RD Road YD Yard			NCCI			
FTG Footing RES Residence or Residential VC Vertical Curve GN Grid North RW Retaining Wall VOL Volume HT Height RT Right WM Water Main CWT Hundredweight RHF Right—Hand Forward WV Water Valve HYD Hydrant R/W Right—of—Way W West INL Inlet R R River WB Westbound ID Inside Diameter RD Road YD Yard			DEO'D			
GN Grid North RW Retaining Wall VOL Volume HT Height RT Right WM Water Main CWT Hundredweight RHF Right—Hand Forward WV Water Valve HYD Hydrant R/W Right—of—Way W West INL Inlet R River WB Westbound ID Inside Diameter RD Road YD Yard						
HT Height RT Right WM Water Main CWT Hundredweight RHF Right—Hand Forward WV Water Valve HYD Hydrant R/W Right—of—Way W West INL Inlet R River WB Westbound ID Inside Diameter RD Road YD Yard						
CWT Hundredweight RHF Right—Hand Forward WV Water Valve HYD Hydrant R/W Right—of—Way W West INL Inlet R River WB Westbound ID Inside Diameter RD Road YD Yard						
HYD Hydrant R/W Right-of-Way W West INL Inlet R River WB Westbound ID Inside Diameter RD Road YD Yard						
INL Inlet R ['] River WB Westbound ID Inside Diameter RD Road YD Yard						
ID Inside Diameter RD Road YD Yard						
RDWY Roadway	טו	Inside Diameter			YU	Yard
			KDMJ	Koadway		

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.

COORDINATES AND BEARINGS ON THIS PLAN ARE REFERENCED TO THE WISCONSIN COUNTY COORDINATE SYSTEM (WCCS), LAFAYETTE COUNTY.

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.

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/EROSION MAT URBAN CLASS I TYPE B AS DIRECTED BY THE ENGINEER. ALL POST CONSTRUCTION WET AREAS SHALL BE SEEDED WITH SEEDING MIXTURE NO. 60.

WHEN THE QUANTITY OF THE ITEM OF BASE AGGREGATE DENSE, BREAKER RUN, 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 THE MATERIAL AS DIRECTED BY THE ENGINEER IN THE FIELD

SILT FENCE, TEMPORARY DITCH CHECKS AND CULVERT PIPE CHECKS 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 IN PLACE PRIOR TO STRUCTURE REMOVAL.

MULCH/EROSION MAT URBAN CLASS I TYPE B ALL MAINLINE SLOPES AS DIRECTED BY THE ENGINEER IN THE FIELD.

FILL EXPANSION IS VARIABLE AND IS ESTIMATED AT 25%.

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

ELEVATIONS SHOWN ON THIS PLAN ARE REFERENCED TO THE NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD 88).

31/2-INCHES OF ASPHALTIC SURFACE SHALL BE CONSTRUCTED WITH A 13/4-INCH UPPER LAYER AND A 134-INCH LOWER LAYER. THE NOMINAL SIZE OF AGGREGATE USED FOR THE LOWER LAYER

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.

INLET & OUTLET ELEVATIONS FOR CULVERT PIPES AS SHOWN ON THE PLAN MAY BE ADJUSTED TO FIT EXISTING FIFLD CONDITIONS

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

WETLANDS ARE PRESENT IN THE PROJECT LIMITS. THE CONTRACTOR SHALL NOT OPERATE EQUIPMENT BEYOND THE SLOPE INTERCEPTS FROM STA. 10+50-12+95, LT., STA. 10+50-12+64,

ALL RADII DIMENSIONS ARE MEASURED TO THE EDGE OF ASPHALT.

CURVE DATA IS BASED ON THE ARC DEFINITION.

CONTACTS

DESIGN CONSULTANT

JEWELL ASSOCIATES ENGINEERS, INC. 560 SLINRISE DRIVE SPRING GREEN. WI 53588 ATTN: ELLERY SCHAFFER, P.E. PHONE: (608) 588-7484 FAX: (608) 588-9322 EMAIL: ellery.schaffer@jewellassoc.com

LAFAYETTE COUNTY HIGHWAY DEPARTMENT

TOM JEAN, COMMISSIONER 12016 HILL STREET DARLINGTON, WI 53530 PH: (608) 776-4919 EMAIL: Tom.Jean@lafayettecountywi.org

TOWN OF DARLINGTON

DNR LIAISON

STATE OF WISCONSIN

FITCHBURG, WI 53711

PHONE: (608) 275-3485

ATTN: LAURA BUB

DNR SOUTH CENTRAL REGION HQ

EMAIL: laura.bub@wisconsin.aov

3911 FISH HATCHERY ROAD

JOHN REICHLING, CHAIRMAN 11389 OTTER CREEK ROAD DARLINGTON, WI 53530 PHONE: (608) 776-2558

TOWN OF WILLOW SPRINGS

JAMES ACHERMAN, CHAIRMAN 17577 COUNTY ROAD G MINERAL POINT, WI 53565 PHONE: (608) 776-2973 EMAIL: jamesacherman@gmail.com

UTILITIES

ELECTRIC

SCENIC RIVERS ENERGY COOPERATIVE ATTN: CHAD OLMSTEAD 231 NORTH SHERIDAN STREET LANCASTER, WI 53813 OFFICE: (608) 723-2121 EXT. 561 FAX: (608) 723-2688 EMAIL: colmstead@srec.net

COMMUNICATION LINE

CENTURYLINK ATTN: TRAVIS KREMSREITER 135 N. BONSON STREET PLATTEVILLE, WI 53818 OFFICE: (608) 342-4369 CELL: (608) 732-8948 EMAIL: Travis.Kremsreiter@centurylink.com



* DENOTES UTILITY IS NOT A

	HTDROLOGIC SOIL GROUP											
		,	Д		В			(C		()
	S		RANGE CENT)	SLOPE RANGE (PERCENT)			SLOPE RANGE (PERCENT)			SLOPE RANGE (PERCENT)		
LAND USE	0-2	2-6	6 & OVER	0-2	2-6	6 & OVER	0-2	2-6	6 & OVER	0-2	2-6	6 & OVER
ROW CROPS	.08 .22	.16 .30	.22 .38	.12 .26	.20 .34	.27 .44	.15 .30	.24 .37	.33 .50	.19 .34	.28 .41	.38 .56
MEDIAN STRIP TURF	.19 .24	.20 .26	.24 .30	.19 .25	.22 .28	.26 .33	.20 .26	.23 .30	.30 .37	.20 .27	.25 .32	.30 .40
SIDE SLOPE TURF			.25 .32			.27 .34			.28 .36			.30 .38
PAVEMENT												
ASPHALT						.70 -	.95					
CONCRETE						.80 -	.95					
BRICK						.70 -	.80					
DRIVES, WALKS .7585												
ROOFS						. 75 -	.95					
GRAVEL ROADS	GRAVEL ROADS, SHOULDERS .4060											

HYDROLOGIC SOIL GROLIP

TOTAL PROJECT AREA= 1.07 ACRES

TOTAL AREA EXPECTED TO BE DISTURBED BY CONSTRUCTION ACTIVITIES = 0.91 ACRES

HOLLAND ROAD R/W R/W 33' 33' 1 (2) (2) (1) DRIVING LANE SHLDR DRIVING LANE VARIFS -3.9x - 2.7% · - VARIES VARIES_ -VARIES VARIES ____ -4" ASPHALTIC SURFACE TO BE REMOVED EXISTING 7"-8" BASE AGGREGATE DENSE TO BE REMOVED EXISTING BASE COURSE SHOULDER-MATERIAL TO BE REMOVED (TYP.) TYPICAL EXISTING SECTION (1) 2 HOLLAND ROAD LANGE ROAD

GEN NOTES - CONTACTS - UTILITIES - LAYOUT

4/27/2017 8: 02: 22 AM

SHEET

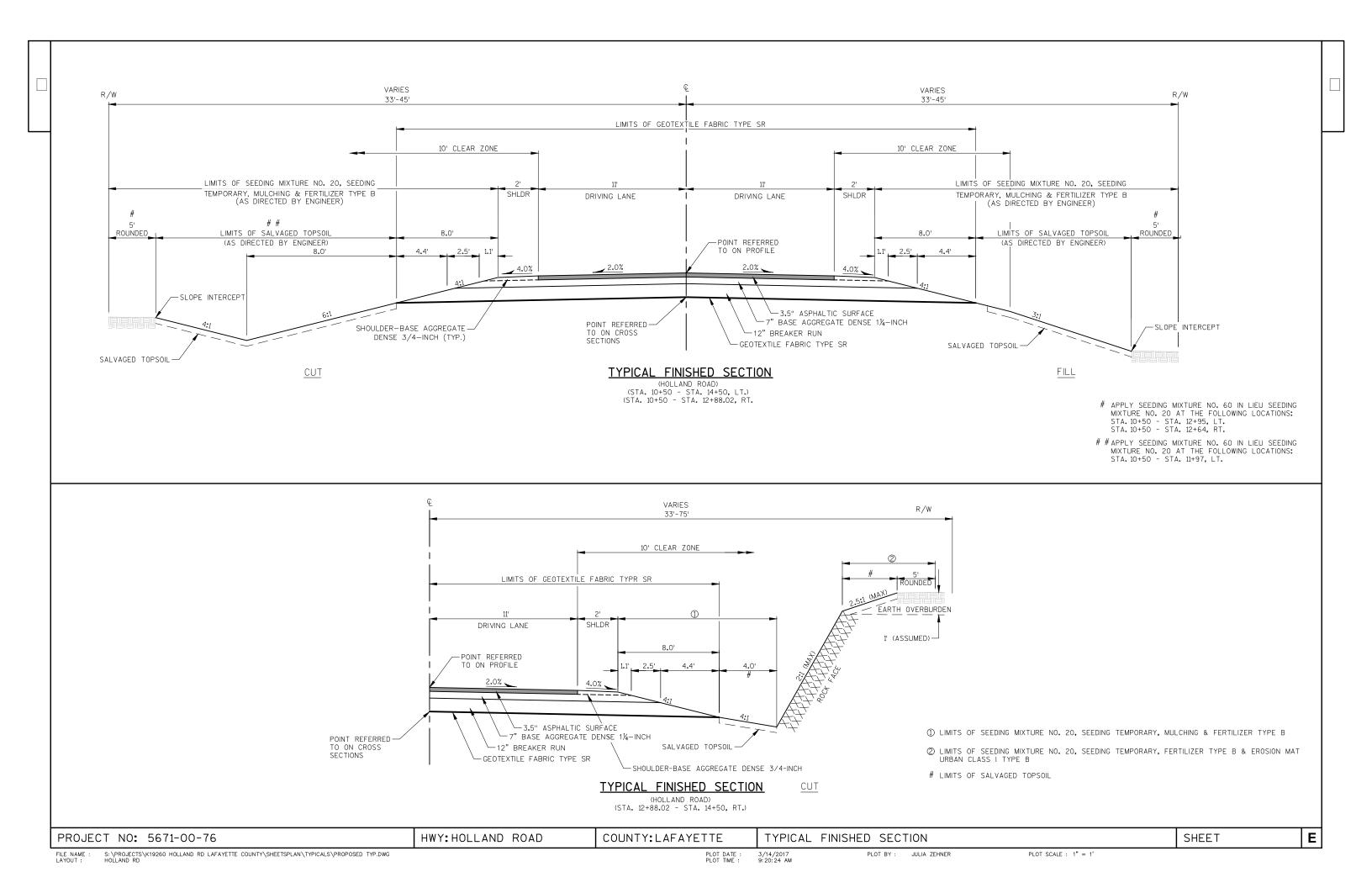
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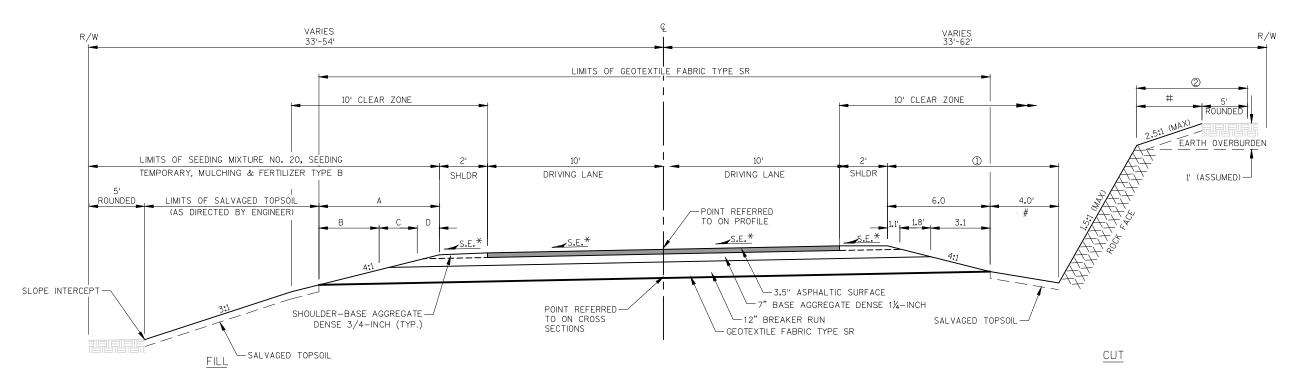
PROJECT NO:5671-00-76

HWY: HOLLAND ROAD

COUNTY: LAFAYETTE

PLOT BY: STRINE, THERESA





SUPERELEVATION TABLE

| STATION | LEFT | RIGHT | (FT.) | (FT

TYPICAL FINISHED SECTION

- ① LIMITS OF SEEDING MIXTURE NO. 20, SEEDING TEMPORARY, MULCHING & FERTILIZER TYPE B
- ① LIMITS OF SEEDING MIXTURE NO. 20, SEEDING TEMPORARY, FERTILIZER TYPE B & EROSION MAT URBAN CLASS I TYPE B
- # LIMITS OF SALVAGED TOPSOIL

THE LOW SIDE SHOULDER SLOPE ON SUPERELEVATED SECTIONS EQUALS THE SUPERELEVATION WHEN THE SUPERELEVATION IS GREATER THAN 0.04 FT./FT. IF THE SUPERELEVATION IS LESS THAN OR EQUALS 0.04 FT./FT., THEN THE LOW SIDE SHOULDER SLOPE IS 0.04 FT./FT. THE HIGH SIDE SHOULDER SLOPE ON THE SUPERELEVATION.

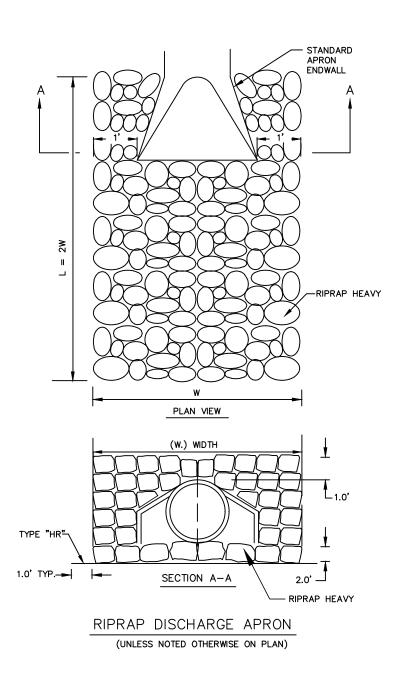
* SEE SUPERELEVATION TABLE

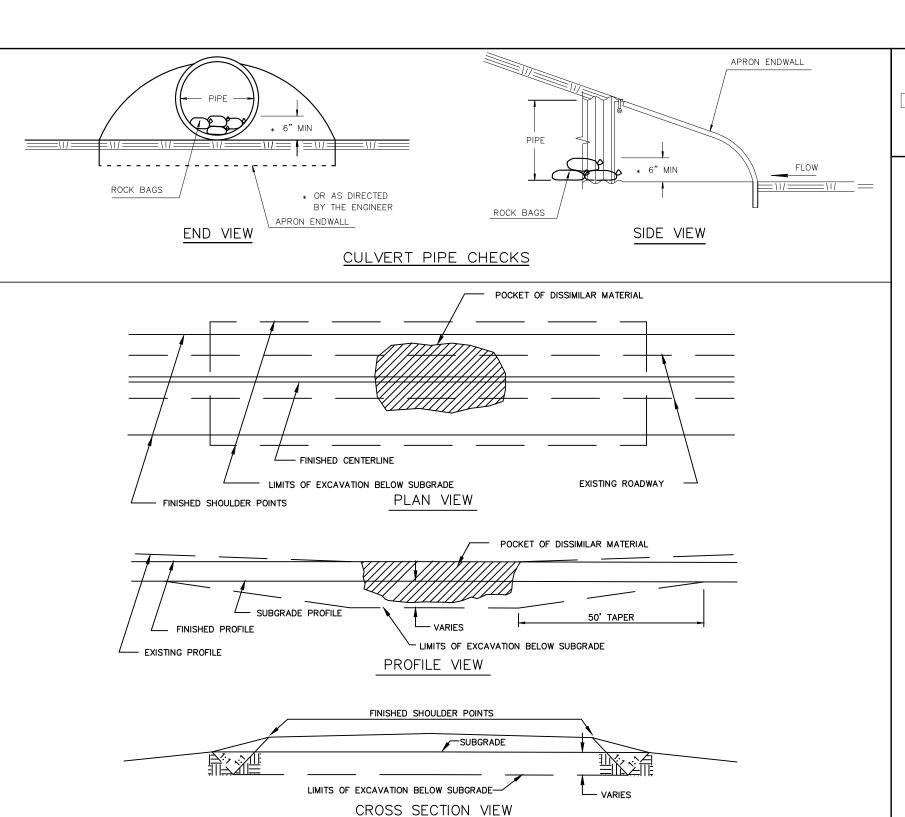
PROJECT NO: 5671-00-76 HWY:HOLLAND ROAD COUNTY:LAFAYETTE TYPICAL FINISHED SECTION SHEET **E**

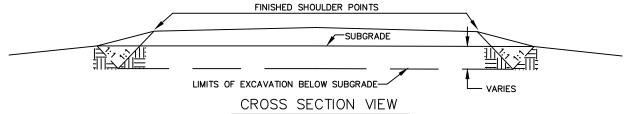
FILE NAME: S:\PROJECTS\K19260 HOLLAND RD LAFAYETTE COUNTY\SHEETSPLAN\TYPICALS\PROPOSED TYP.DWG

PLOT DATE: 3/14/2017 PLOT BY: JULIA ZEHNER PLOT SCALE: 1" = 1'
LAYOUT: LANGE RD

PLOT TIME: 8:01:29 AM





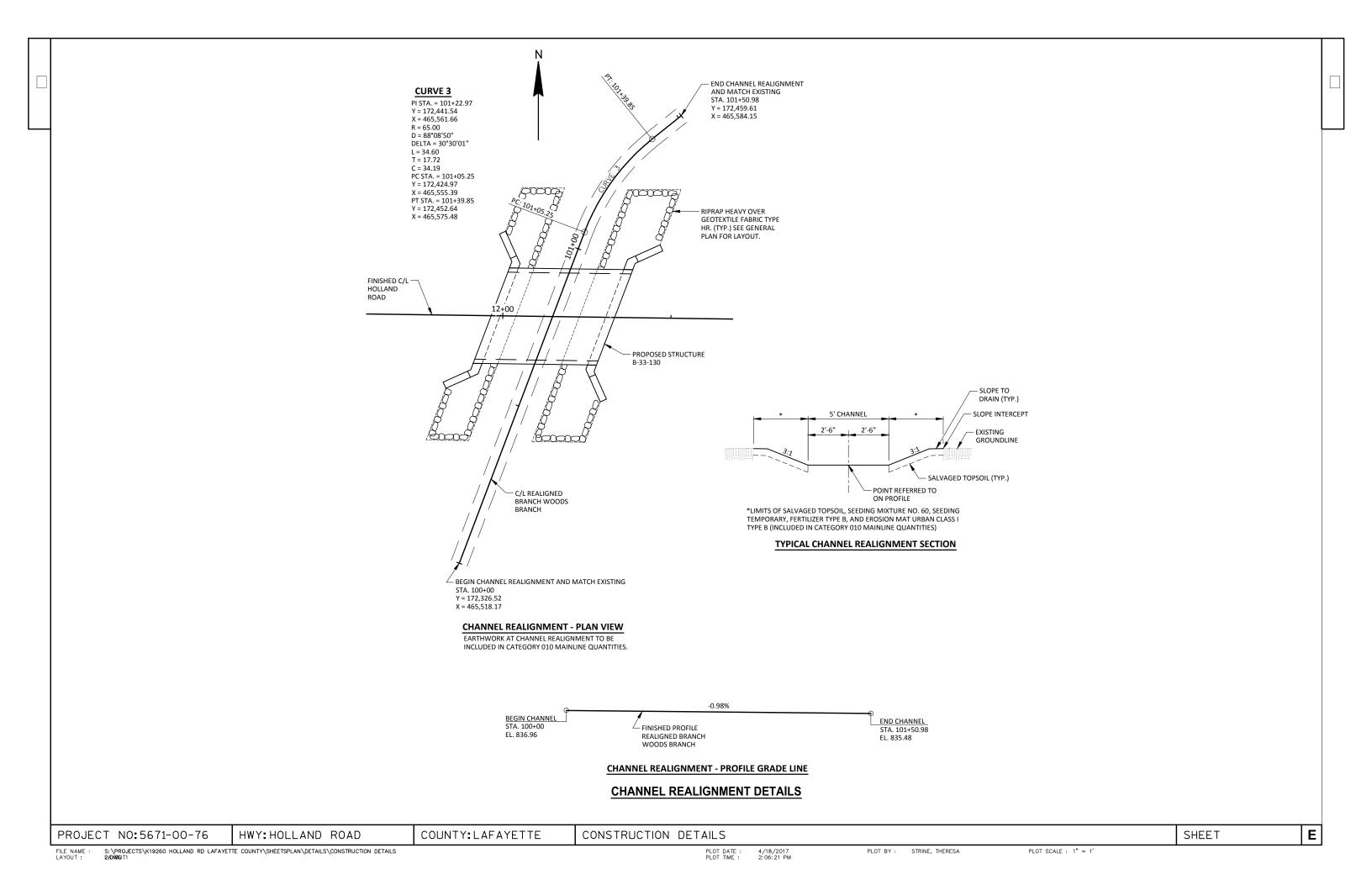


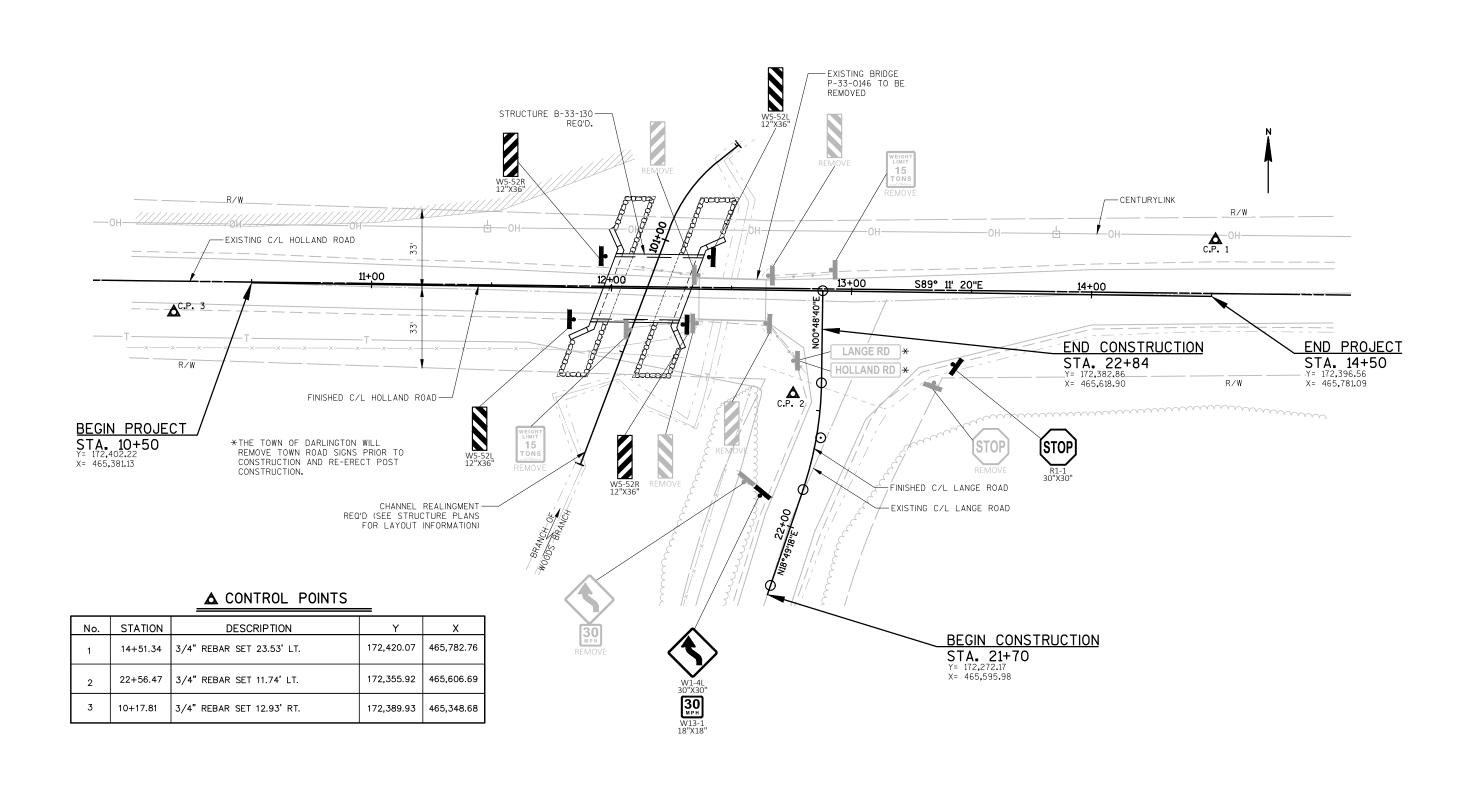
- EXACT LOCATION OF E.B.S. (EXCAVATION BELOW SUBGRADE) SHALL BE DETERMINED BY THE ENGINEER IN THE FIELD.
- 2. E.B.S. AREA TO BE BACKFILLED WITH MATERIAL ACCEPTABLE TO THE ENGINEER. BACKFILL MUST BE HOMOGENEOUS WITH ADJOINING FILL MATERIAL.
- 3. THE FILL SECTION WITHIN 100' OF THE MOUTH OF THE CUT MUST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

SHALL BE THE SUBGRADE SHOULDER POINTS.

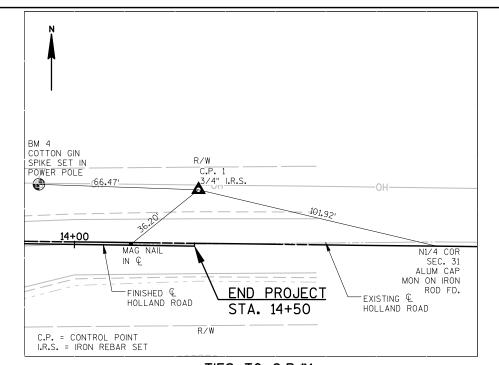
EXCAVATION BELOW SUBGRADE (E.B.S.)

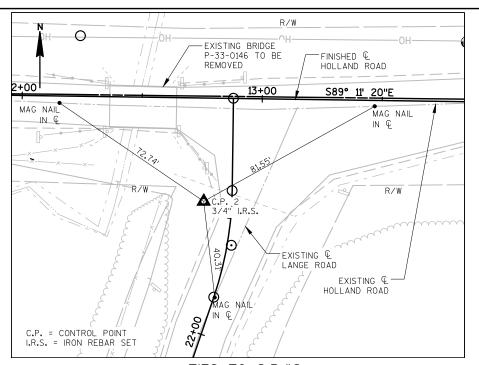
Ε COUNTY: LAFAYETTE CONSTRUCTION DETAILS SHEET PROJECT NO:5671-00-76 HWY: HOLLAND ROAD

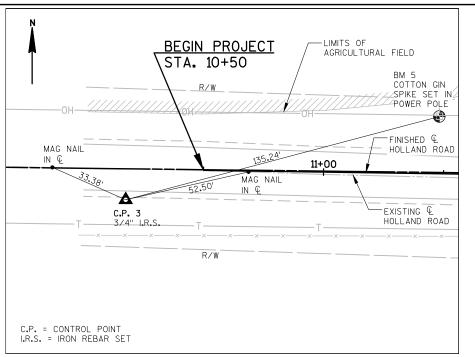




Ε PROJECT NO:5671-00-76 HWY: HOLLAND ROAD TIES AND ALIGNMENT PLAN SHEET COUNTY: LAFAYETTE FILE NAME : LAYOUT :







TIES TO C.P.#1 STA. 14+51.34; 23.53' LT. Y = 172,420.07

X = 465,782.76

TIES TO C.P.#2
STA. 22+56.47; 11.74' LT.
Y = 172,355.92
X = 465,606.69

TIES TO C.P.#3

STA. 10+17.81; 12.93' RT.
Y = 172,389.93

Ε

SHEET

X = 465,348.68

PLOT SCALE : 1" = 1'

HOLLAND ROAD STATION LAYOUT

STATION	Υ	X	COMMENTS
10+50	172,402.22	465,381.13	BEGIN PROJECT
11+00	172,401.52	465,431.12	-
11+50	172,400.81	465,481.12	_
11+96.58	172,400.15	465,527.69	END OF DECK
12+00	172,400.10	465,531.11	ı
12+33.24	172,399.63	465,564.35	END OF DECK
12+50	172,399.39	465,581.11	ı
13+00	172,398.69	465,631.10	_
13+50	172,397.98	465,681.10	_
14+00	172,397.27	465,731.09	-
14+50	172,396.56	465,781.09	END OF PROJECT

LANGE ROAD STATION LAYOUT

STATION	Υ	Х	COMMENTS
21+70	172,272.17	465,595.98	BEGIN CONSTRUCTION
22+00	172,300.58	465,605.62	_
22+50	172,348.88	465,617.95	_
22+84	172.382.86	465,618,90	FND CONSTRUCTION

PLOT BY: STRINE, THERESA

PROJECT NO:5671-00-76 HWY: HOLLAND ROAD COUNTY: LAFAYETTE TIES AND ALIGNMENT PLAN

Page 1 **Estimate Of Quantities**

					5671-00-76
Line	Item	Item Description	Unit	Total	Qty
0002	201.0105	Clearing	STA	2.000	2.000
0002	201.0205	Grubbing	STA	2.000	2.000
0004	203.0100	Removing Small Pipe Culverts	EACH	1.000	1.000
0008	203.0500.S	·	LS	1.000	1.000
0000	200.0000.0	Sta. 12+50		1.000	1.000
0010	205.0100	Excavation Common	CY	910.000	910.000
0012	205.0200	Excavation Rock	CY	640.000	640.000
0014	206.1000	Excavation for Structures Bridges (structure) 01. B-33-	LS	1.000	1.000
		0130			
0016	210.1500	Backfill Structure Type A	TON	250.000	250.000
0018	213.0100	Finishing Roadway (project) 01. 5671-00-76	EACH	1.000	1.000
0020	305.0110	Base Aggregate Dense 3/4-Inch	TON	70.000	70.000
0022	305.0120	Base Aggregate Dense 1 1/4-Inch	TON	750.000	750.000
0024	311.0110	Breaker Run	TON	1,370.000	1,370.000
0026	455.0605	Tack Coat	GAL	75.000	75.000
0028	465.0105	Asphaltic Surface	TON	290.000	290.000
0030	502.0100	Concrete Masonry Bridges	CY	125.000	125.000
0032	502.3200	Protective Surface Treatment	SY	140.000	140.000
0034	505.0400	Bar Steel Reinforcement HS Structures	LB	4,530.000	4,530.000
0036	505.0600	Bar Steel Reinforcement HS Coated Structures	LB	15,090.000	15,090.000
0038	513.4061	Railing Tubular Type M (structure) 01. B-33-0130	LF	77.000	77.000
0040	516.0500	Rubberized Membrane Waterproofing	SY	12.000	12.000
0042	520.1036	Apron Endwalls for Culvert Pipe 36-Inch	EACH	2.000	2.000
0044	520.3336	Culvert Pipe Class III-A 36-Inch	LF	60.000	60.000
0046	550.1100	Piling Steel HP 10-Inch X 42 Lb	LF	410.000	410.000
0048	606.0300	Riprap Heavy	CY	170.000	170.000
0050	612.0406	Pipe Underdrain Wrapped 6-Inch	LF	180.000	180.000
0052	614.0920	Salvaged Rail	LF	110.000	110.000
0054	619.1000	Mobilization	EACH	1.000	1.000
0056	624.0100	Water	MGAL	20.000	20.000
0058	625.0500	Salvaged Topsoil **P**	SY	2,300.000	2,300.000
0060	627.0200	Mulching **P**	SY	2,950.000	2,950.000
0062	628.1504	Silt Fence	LF	740.000	740.000
0064	628.1520	Silt Fence Maintenance	LF	1,480.000	1,480.000
0066	628.1905	Mobilizations Erosion Control	EACH	5.000	5.000
0068	628.1910	Mobilizations Emergency Erosion Control	EACH	2.000	2.000
0070	628.2008	Erosion Mat Urban Class I Type B **P**	SY	700.000	700.000
0072	628.7504	Temporary Ditch Checks	LF	50.000	50.000
0074	628.7555	Culvert Pipe Checks	EACH	7.000	7.000
0076	629.0210	Fertilizer Type B **P**	CWT	2.000	2.000
-		71			

Estimate Of Quantities Page 2

					5671-00-76	
Line	Item	Item Description	Unit	Total	Qty	
		·				
0078	630.0120	Seeding Mixture No. 20 **P**	LB	75.000	75.000	
0800	630.0160	Seeding Mixture No. 60 **P**	LB	13.000	13.000	
0082	630.0200	Seeding Temporary **P**	LB	50.000	50.000	
0084	633.5100	Markers Row	EACH	18.000	18.000	
0086	633.5200	Markers Culvert End	EACH	2.000	2.000	
8800	634.0612	Posts Wood 4x6-Inch X 12-FT	EACH	4.000	4.000	
0090	634.0616	Posts Wood 4x6-Inch X 16-FT	EACH	2.000	2.000	
0092	637.2210	Signs Type II Reflective H	SF	5.180	5.180	
0094	637.2230	Signs Type II Reflective F	SF	20.500	20.500	
0096	638.2602	Removing Signs Type II	EACH	9.000	9.000	
0098	638.3000	Removing Small Sign Supports	EACH	8.000	8.000	
0100	642.5001	Field Office Type B	EACH	1.000	1.000	
0102	643.0100	Traffic Control (project) 01. 5671-00-76	EACH	1.000	1.000	
0104	645.0111	Geotextile Type DF Schedule A	SY	90.000	90.000	
0106	645.0120	Geotextile Type HR	SY	300.000	300.000	
0108	645.0135	Geotextile Type SR	SY	2,430.000	2,430.000	
0110	650.4500	Construction Staking Subgrade	LF	630.000	630.000	
0112	650.5000	Construction Staking Base	LF	480.000	480.000	
0114	650.6000	Construction Staking Pipe Culverts	EACH	1.000	1.000	
0116	650.6500	Construction Staking Structure Layout (structure) 01. B-33-0130	LS	1.000	1.000	
0118	650.9910	Construction Staking Supplemental Control (project) 01. 5671-00-76	LS	1.000	1.000	
0120	650.9920	Construction Staking Slope Stakes	LF	630.000	630.000	
0122	690.0150	Sawing Asphalt	LF	63.000	63.000	
0124	715.0502	Incentive Strength Concrete Structures	DOL	750.000	750.000	

	ALL	BID	ITEMS	ARE	CATEGORY	010	UNLESS	OTHERWISE	NOTED	
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201.0105 201.0205 CLEARING GRUBBING LOCATION STATION - STATION (STA.) (STA.) 13+00 - 14+00 MAINLINE, RT. 21+70 - 22+70 LANGE ROAD TOTALS =

REMOVING SMALL PIPE CULVERTS

203.0100 REMARKS STATION 18" CMP, L=53' LOCATION _(EACH)_ 22+60 Lange Road TOTAL =

SALVAGED GUARDRAIL

		014.0920
STATION-STATION	LOCATION	(LF)
12+10 - 12+37	MAINLINE, LT.	27
12+09 - 12+36	MAINLINE, RT.	27
12+65 - 12+91	MAINLINE, LT.	28
12+65 - 12+82	MAINLINE, RT.	28
	TOTAL =	110

BASE AGGREGATE DENSE

		305.0110	305.0120	311.0110
		BASE AGGREGATE	BASE AGGREGATE	BREAKER RUN
		DENSE 3/4-INCH	DENSE 1 1/4-INCH	
STATION - STATION	LOCATION	(TON)	(TON)	(TON)
10+50-14+50	MAINLINE	50	590	1076
21+70-22+84	LANGE ROAD	13	114	211
-	UNDISTRIBUTED	7	46	83
	TOTALS =	70	750	1370

EARTHWORK SUMMARY

FROM/TO STA	LOCATION	(1) 205.0100 COMMON EXCAVATION CUT (CY)	(2) AVAILABLE MATERIAL (CY)	(3) 205.0200 ROCK EXCAVATION (CY)	(4) EXPANDED ROCK (CY) FACTOR 1.1	UNEXPANDED FILL (CY)	(5) EXPANDED FILL (CY) FACTOR 1.25	(6) MASS ORDINATE +/- (CY)	WASTE (CY)
10+50-14+50	MAINLINE	435	435	283	312	725	516	-81	-81
21+70-22+84	LANGE ROAD	108	108	357	393	200	-241	349	349
100+00 - 101+50.98	CHANNEL REALIGNMENT	367	367	0	0	0	0	367	367
TC	OTALS =	910	910	640	705	925	275	635	635

NOTES:

- 1.) SALVAGED/UNUSABLE PAVEMENT MATERIAL IS INCLUDED IN CUT
- 2.) AVAILABLE MATERIAL = CUT
- 3.) ROCK EXCAVATION. ITEM NUMBER 205.0200
- 4.) EXPANDED ROCK FACTOR = 1.1

HWY: HOLLAND ROAD

- 5.) EXPANDED FILL FACTOR 1.25: EXPANDED FILL = (UNEXPANDED FILL (ROCK * ROCK FACTOR))*1.25
- 6.) 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.

NOTE: WASTE EXCESS CHANNEL REALIGNMENT MATERIAL. DO NOT USE EXCESS EXCAVATED MATERIAL FROM CHANNEL REALIGNMENT ACTIVITIES IN ROADWAY RECONSTRUCTION APPROACH COSNTRUCTION.

ASPHALTIC SURFACE

STATION - STATION	LOCATION	455.0605 TACK COAT (GAL)	465.0105 ASPHALTIC SURFACE (TON)
10+50-14+50	MAINLINE	58	231
21+70-22+84	LANGE ROAD	11	42
	UNDISTRIBUTED	6	17
	TOTAL S =	75	290

CULVERT PIPES

STATION	LOCATION	520.1036 APRON ENDWALLS FOR CULVERT PIPE 36-INCH (EACH)	520.3336 CULVERT PIPE CLASS III-A 36-INCH (LF)	628.7555 CULVERT PIPE CHECKS (EACH)	650.6000 CONSTRUCTION STAKING PIPE CULVERTS (EACH)
22+50	LANGE ROAD	2	60	7	1
	TOTAL =	2	60	7	1

STEEL THICKNESS (MIN.) = 0.079 INCHES ALUMINUM THICKNESS (MIN.) = 0.105 INCHES

RIPRAP HEAVY

		*606.0300 RIPRAP HEAVY	*645.0120 GEOTEXTILE FABRIC TYPE HR
STATION	LOCATION	(CY)	(SY)
22+50	LANGE ROAD, LT.	10	25
-	UNDISTRIBUTED		5
	TOTAL =	10	30

*MORE LISTED ELSEWHERE

WATER

PROJECT	624.0100 (MGAL)
5671-00-76	20
TOTAL =	20

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FINISHING ITEMS

				P		SEE TYPICAL FINISHED	SECTIONS FOR APPLICAT	ION LOCATIONS
		P	**P**	628.2008	**P**	**P**	**P**	**P**
		625.0500	627.0200	EROSION MAT	629.0210	630.0120	#630.0160	630.0200
		SALVAGED	MULCHING	URBAN CLASS I	FERTILIZER	SEEDING MIXTURE	SEEDING MIXTURE	SEEDING
		TOPSOIL		TYPE B	TYPE B	NO. 20	NO. 60	TEMPORARY
STATION - STATION	LOCATION	(SY)	(SY)	(SY)	(CWT)	(LB)	(LB)	(LB)
10+50-14+50	MAINLINE	1113	1714	95	1.1	35	7	24
21+70-22+84	LANGE ROAD	494	652	216	0.5	24	-	12
100+00-101+50.98	CHANNEL REALIGNMENT	252	-	252	0.2	-	4	4
-	UNDISTRIBUTED	441	584	137	0.2	16	2	10
	TOTALS =	2300	2950	700	2.0	75	13.0	50

COUNTY: LAFAYETTE

SILT FENCE

			020.1020
		628.1504	SILT FENCE
		SILT FENCE	MAINTENANCE
STATION - STATION	LOCATION	(LF)	(LF)
11+75-14+50	MAINLINE, LT.	208	416
11+77-12+33	MAINLINE, RT.	52	104
21+70-22+30	LANGE ROAD, LT.	66	132
100+00 - 101+18	CHANNEL REALIGNMENT, LT.	118	236
100+00 - 101+47	CHANNEL REALIGNMENT, RT.	147	294
-	UNDISTRIBUTED	149	298
	TOTALS =	740	1480

S:\PROJECTS\K19260 HOLLAND RD LAFAYETTE COUNTY\SHEETSPLAN\DETAILS\MISC QUANTITIES.DWG

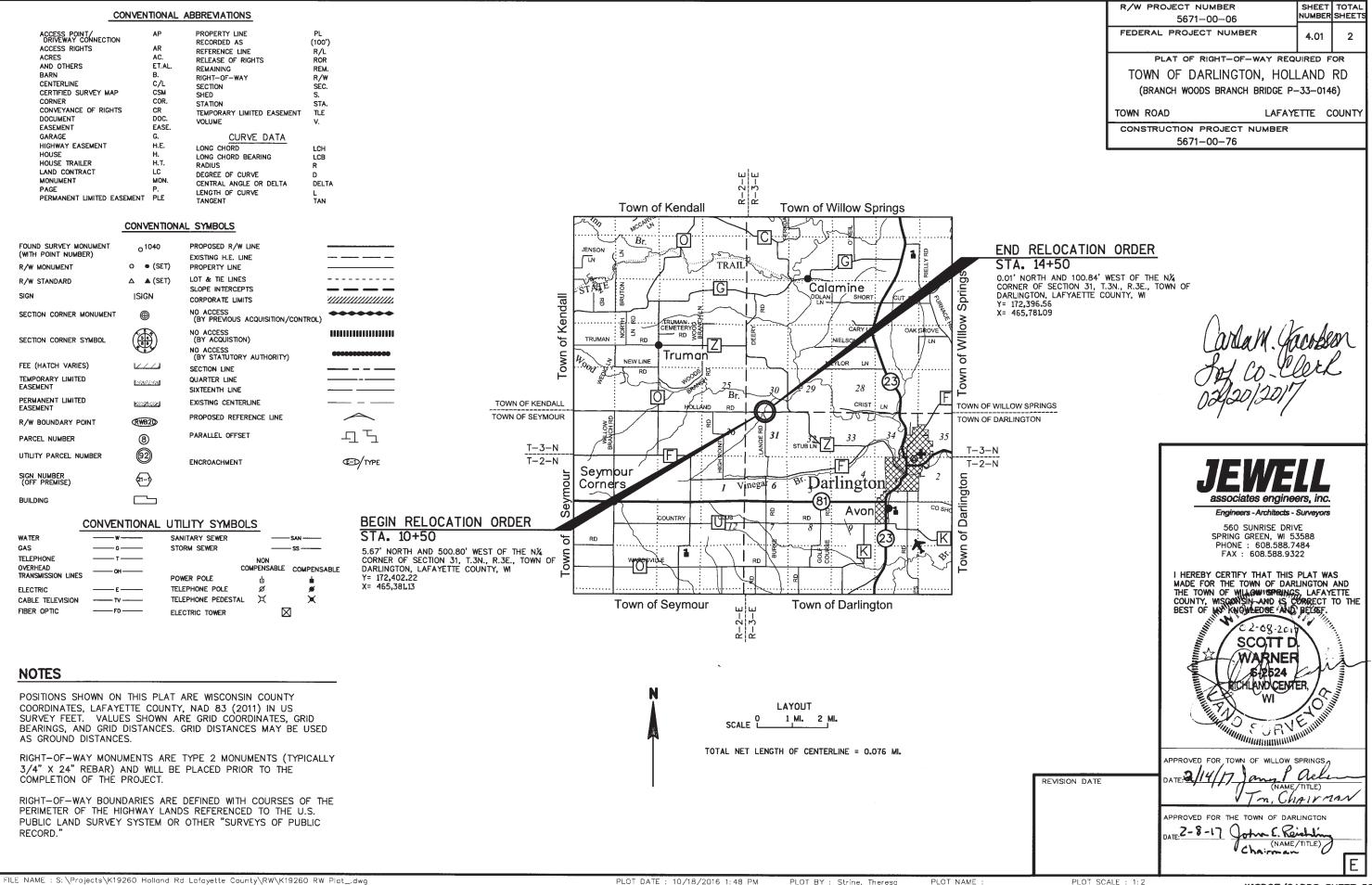
MISCELLANEOUS QUANTITIES

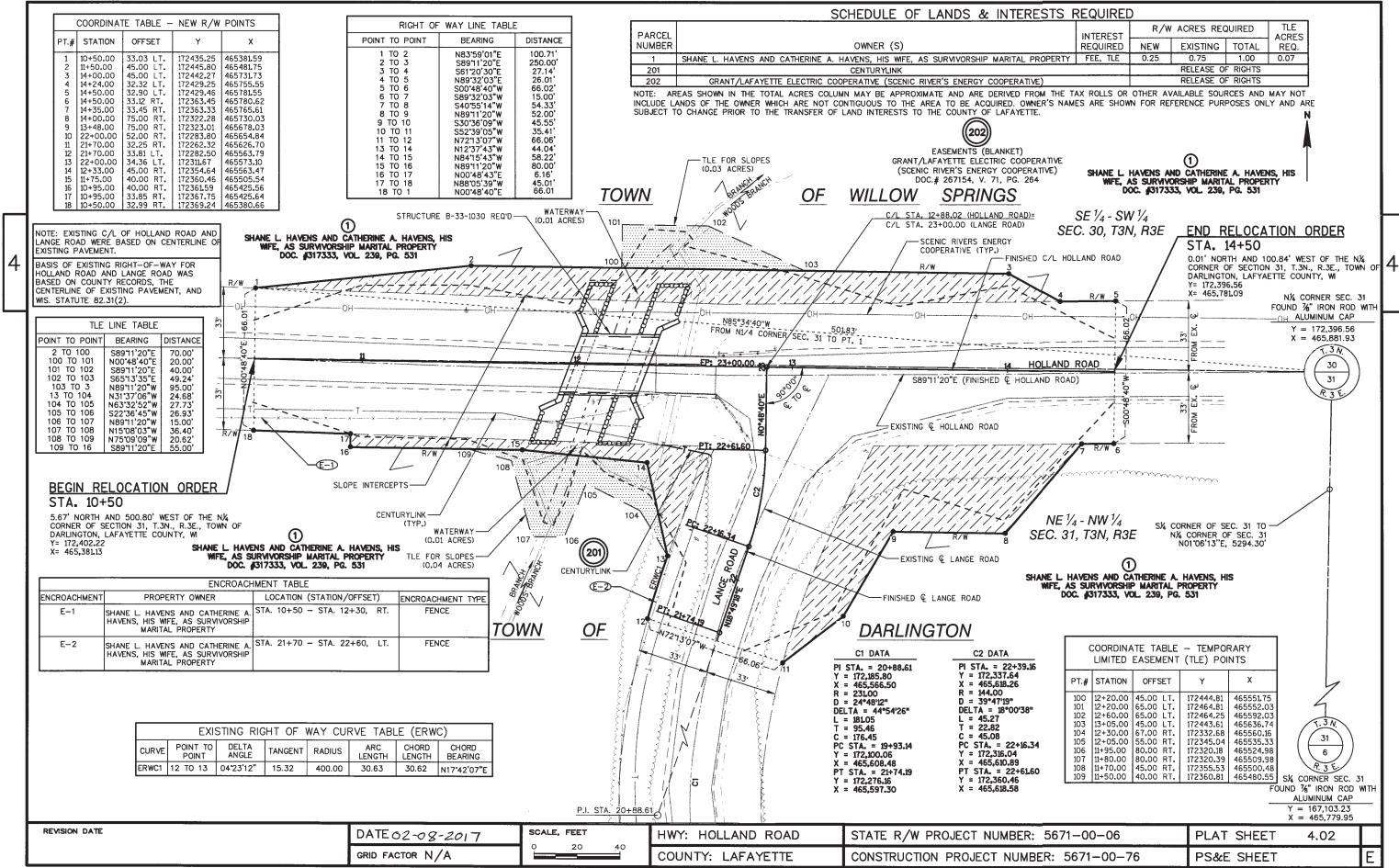
PLOT BY: STRINE, THERESA

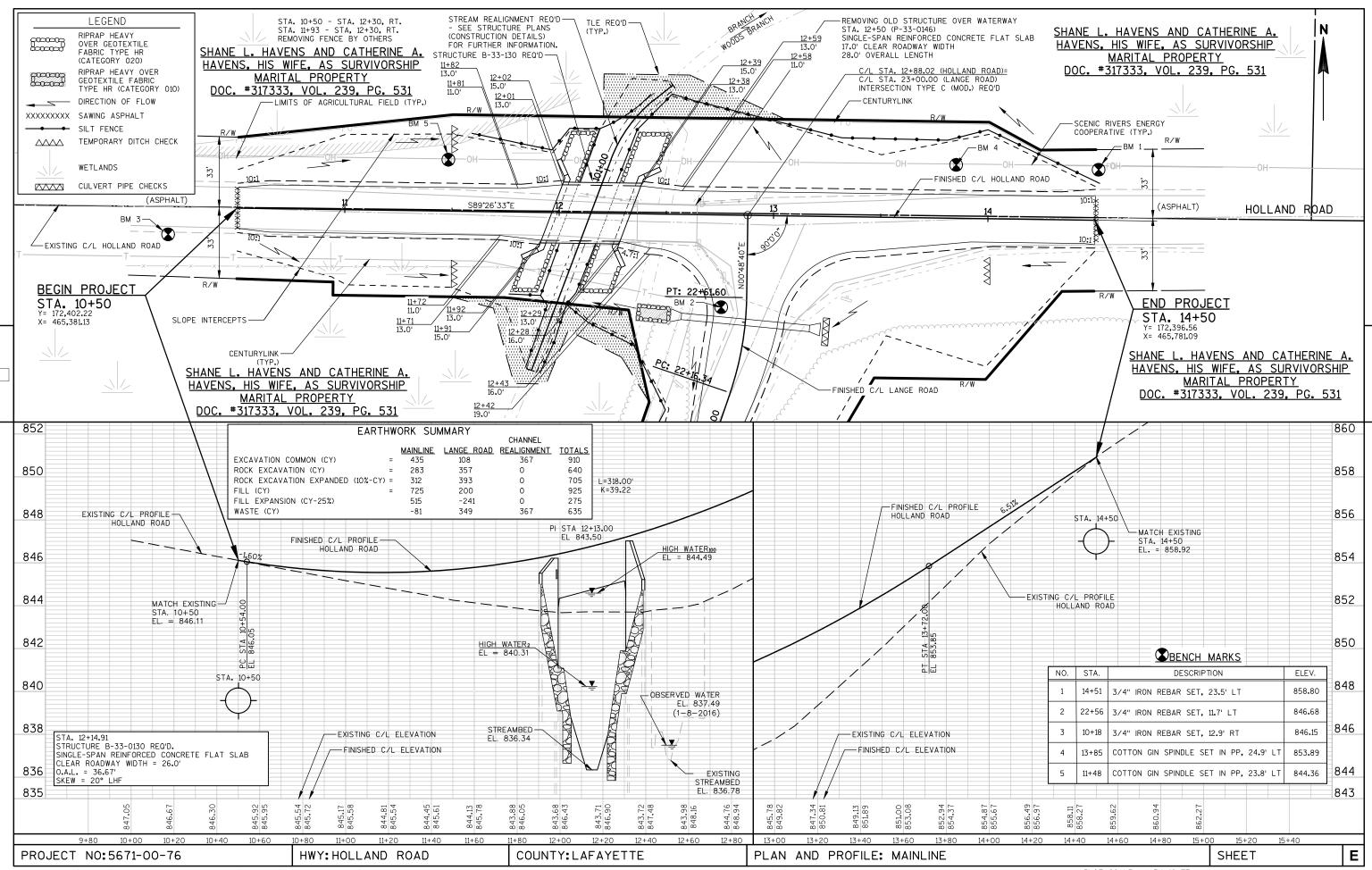
SHEET PLOT SCALE : 1 IN:1 FT

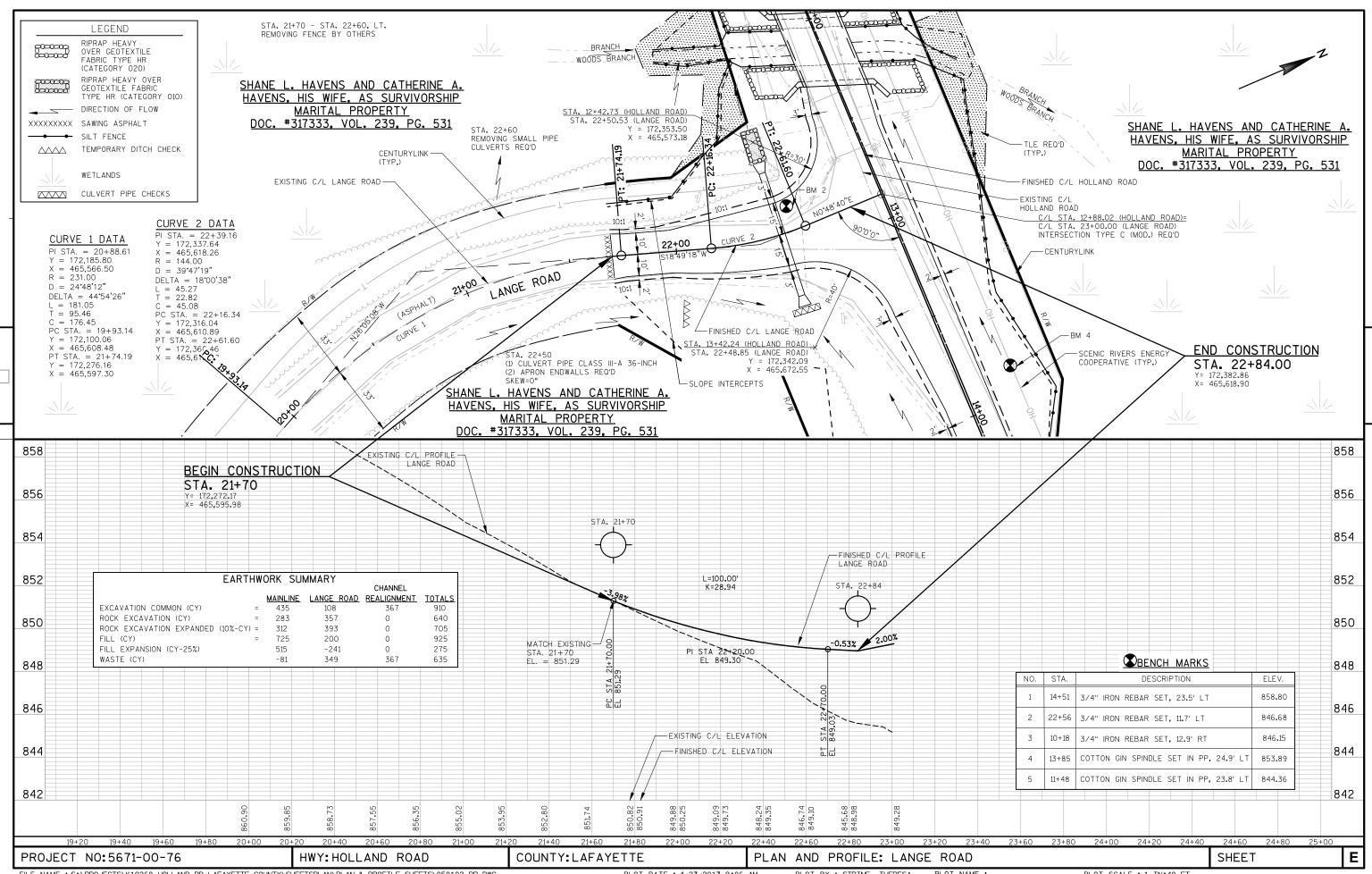
PROJECT NO: 5671-00-76

	STATION - STATION LOCATION	650.4500 SUBGRADE (LF) 365 114	650.5000 BASE (LF) 366 114	STRUCTURE LAYOUT (B-33-0130) (LS)	SUPPLEMENTAL CONTROL (01.5671-00-76) (LS)	650.9920 SLOPES STAKES (LF) 365 114 151					90.0150 (LF) 19 23 21	
	_	CONSTRUCT	TION STAKING	*650.6500	650.9910						-	
STATION 11+91 12+02 12+08 12+28 12+36 12+36 12+39 12+64 12+65 12+92 22+11 22+11 22+62	PEI LOCATION CODE DESCRIPTION MAINLINE, RT. W5-52R BRIDGE HASH MAR MAINLINE, RT. W5-52L BRIDGE HASH MAR MAINLINE, RT. W5-52R BRIDGE HASH MAR MAINLINE, RT. W5-52R BRIDGE HASH MAR MAINLINE, RT. W5-52R BRIDGE HASH MAR MAINLINE, LT. W5-52L BRIDGE HASH MAR MAINLINE, LT. W1-52L BRIDGE HASH MAR MAINLINE, LT. W1-52L BRIDGE HASH MAR MAINLINE, LT. W1-52L BRIDGE HASH MAR MAINLINE, LT. W1-55L BRIDGE HASH MAR MAINLINE, LT. W5-52L BRIDGE HASH MAR MAINLINE, LT. W1-55L BRIDGE HASH MAR MAINLINE, LT. W5-52L BRIDGE HASH MAR MAINLINE, LT. W5	KS 12X36 24X30 KS 12X36 KS 12X36 KS 12X36 KS 12X36 KS 12X36 KS 12X36 KS 12X36 AS 12X36 24X30	634.0612 POSTS WOOD 4X6 - INCH X 12-FT	634.0616 POSTS WOOL 4x6-INCH x 16-FT (EACH) 1 1	TYPE II	637.2230 SIGNS TYPE II REFLECTIVE F (SF) 3.00 - 3.00 - 3.00 - - 6.25 2.25 - 20.50	638.2602 REMOVING SIGNS TYPE II (EACH) 1 1 - 1 1 1 1 1 1 9	638.3000 REMOVING SMALL SIGN SUPPORTS (EACH) 1 - 1 - 1 - 1 - 1 1 - 1 - 1 8	REMARKS SIGN MOUNTED BELOW W1-4L SIGN	GEOTE <u>STATION - STATION</u> 10+50-14+50 21+70-22+84	EXTILE FABRIC TY LOCATION MAINLINE LANGE ROAD UNDISTRIBUTED TOTAL =	YPE SR 645.0135 (SY) 1784 512 134 2430
5671	MOBILIZATION EROSION CONTROL 628.1905 MOBILIZATIONS EROSION CONTROL ROJECT 71-00-76 5 TOTALS = 5 628.1910 MOBILIZATIONS EMERGE EROSION CONTROL (EACH) 2 2		STATION 11+50 11+50 14+00 22+00	RY DITCH C LOCATION MAINLINE, LT MAINLINE, RT MAINLINE, RT MAINLINE, RT JNDISTRIBUTED TOTAL =	628.7504 (LF) 10 10 10 10 10		1 10+ 2 11+ 3 14+ 4 14+ 5 14+ 6 14+ 7 14+ 8 14+ 9 13+ 10 22+ 11 21+ 12 21+ 13 22+ 14 12+ 15 11+ 16 10+ 17 10+	TION 50.00 MA 50.00 MA 24.00 MA 50.00 MA 50.00 MA 50.00 MA 60.00 MA 60.00 MA 60.00 LANG 70.00 LANG 70.00 LANG 75.00 MA 65.00 MA	RKERS ROW Cocation (EACH)	MA STATION 22+50		END 633.5200 (EACH) 2 2









Standard Detail Drawing List

08E08-03	TYPICAL INSTALLATIONS OF EROSION BALES / TEMPORARY DITCH CHECKS
08E09-06	SILT FENCE
08F01-11	APRON ENDWALLS FOR CULVERT PIPE
09A01-13A	AT-GRADE SIDE ROAD INTERSECTION, TYPES "B1", "B2", "C" AND D AND TEE INTERSECTION BYPASS LANE
12A03-10	NAME PLATE (STRUCTURES)
15A01-13A	MARKER POST FOR RIGHT-OF-WAY
15A03-02A	FLEXIBLE MARKER POST FOR CULVERT END
15A03-02B	FLEXIBLE MARKER POST FOR CULVERT END
15C02-06A	BARRICADES AND SIGNS FOR MAINLINE CLOSURES
15C02-06B	BARRICADES AND SIGNS FOR MAINLINE CLOSURES
15C03-03	BARRICADES AND SIGNS FOR SIDEROAD CLOSURES
15006-08	SIGNING & MARKING FOR TWO LANE BRIDGES

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GENERAL NOTES

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

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

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

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







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

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

DIMPLED BAND MAY BE USED WITH HELICALLY

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

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

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

* EXCEPT CENTER PANEL SEE GENERAL NOTES





SHOULDER

SLOPE



SIDE ELEVATION METAL ENDWALLS



**MAXIMUM





CONCRETE ENDWALLS

CONNECTION DETAILS



SECTION A-A

GENERAL NOTES

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

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

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

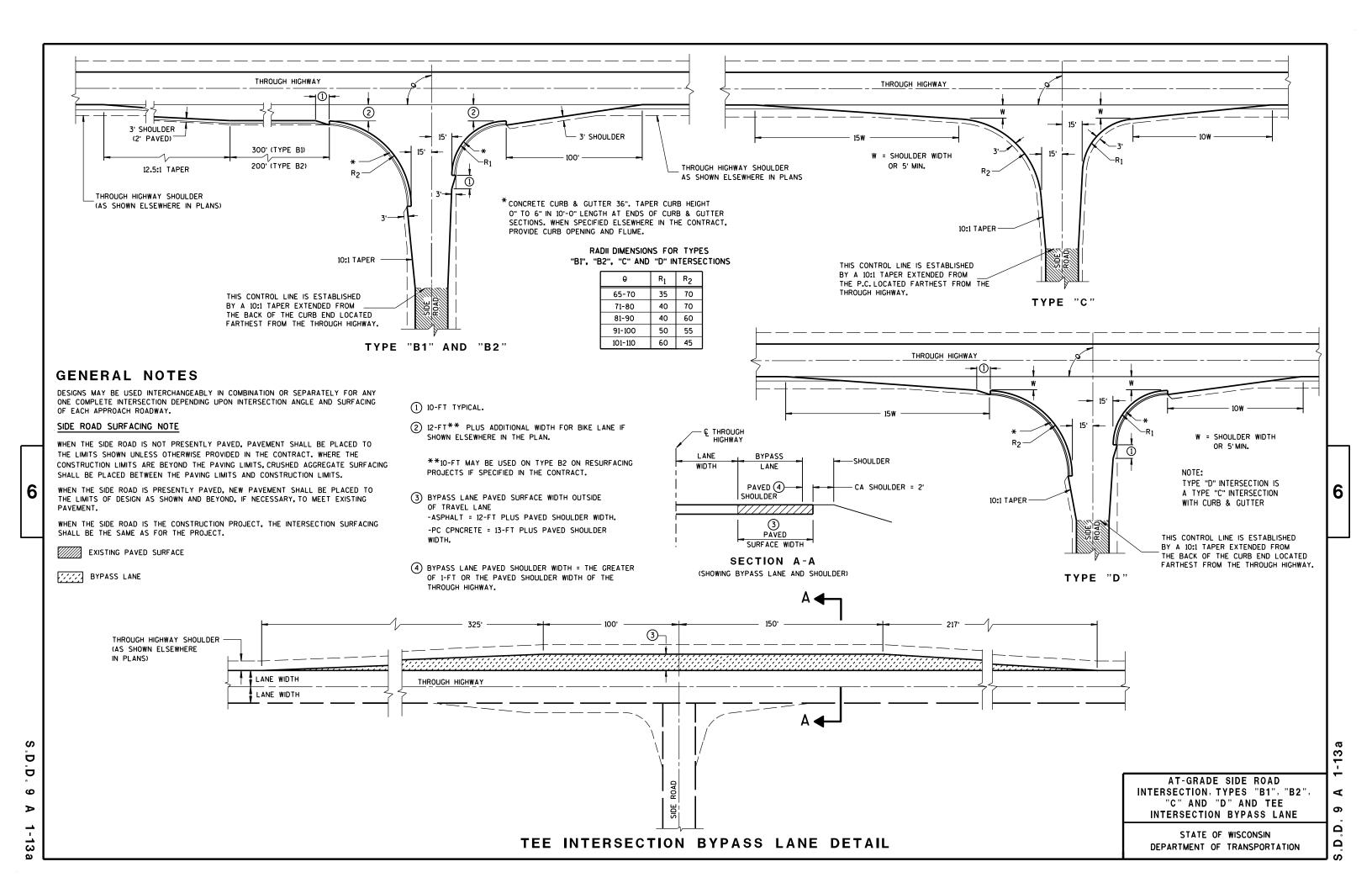
LAP SEAMS SHALL BE TIGHTLY JOINED BY GALVANIZED RIVETS OR BOLTS FOR STEEL UNITS AND ALUMINUM RIVETS AND BOLTS FOR ALUMINUM UNITS. FOR THE 60" THROUGH 96" DIAMETER APRON ENDWALL SIZES. THE REINFORCED EDGES AND CENTER PANEL SEAMS SHALL BE FURTHER REINFORCED WITH GALVANIZED STEEL OR ALUMINUM STIFFENER ANGLES.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

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

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



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







TYPICAL NAME PLATE

(BRIDGES, CULVERTS, AND RETAINING WALLS)



NUMBERING DESIGNATION MULTI-UNIT STRUCTURES

GENERAL NOTES

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

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

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



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

SECTION A-A

ALTERNATE LUG



ALTERNATE LUG

(FOR ATTACHMENT TO PRECAST STRUCTURES)

NAME PLATE (STRUCTURES)

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

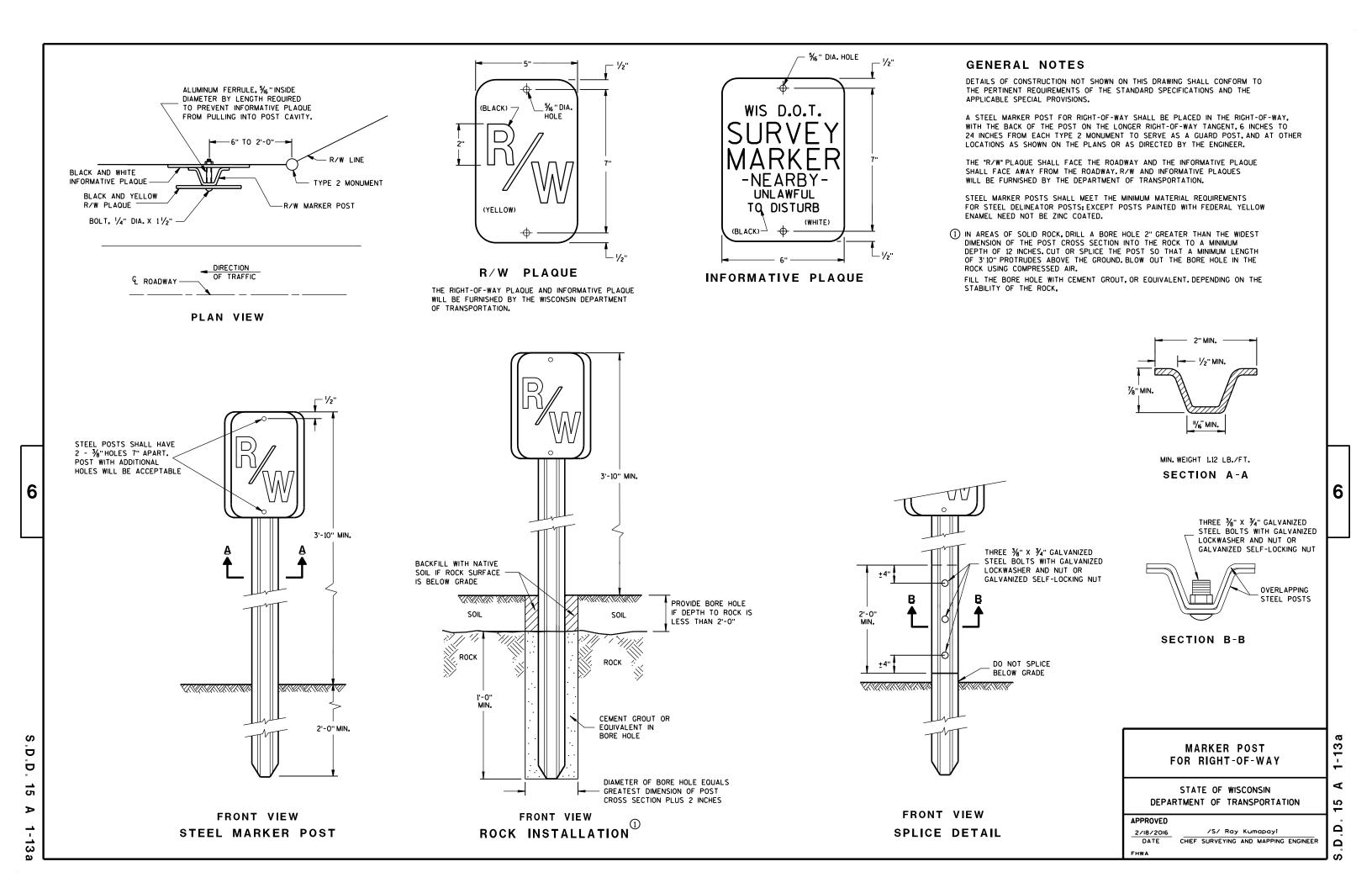
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3/26/IO /S/ SCOT BECKET

CHIEF STRUCTURAL DEVELOPMENT ENGINEER

D.D. 12 A

3-10









ROAD CLOSURE BARRICADE DETAIL

APPROACH VIEW



DETAIL E LANE CLOSURE BARRICADE DETAIL APPROACH VIEW

SEE SDD 15C2-SHEET "a" FOR LEGEND

GENERAL NOTES

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

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

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

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

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

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

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

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

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

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

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

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

BARRICADES AND SIGNS FOR MAINLINE CLOSURES

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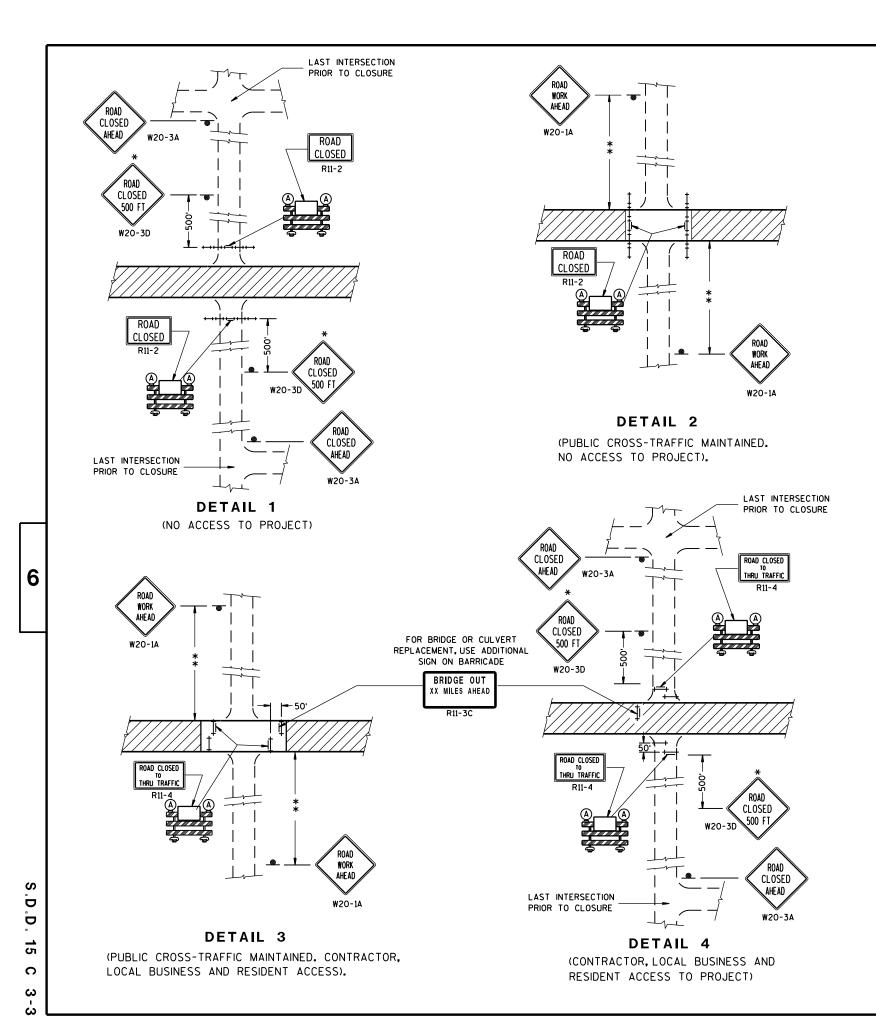
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STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION

/S/ Peter Amakobe Atepe

STATEWIDE WORK ZONE TRAFFIC SAFETY ENGINEER



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.

IF A "STOP" SIGN MUST BE REMOVED FOR A WORK OPERATION, A TEMPORARY "STOP" SIGN SHALL BE PLACED PRIOR TO THE SIGN REMOVAL, OR A FLAGGER SHALL BE PROVIDED UNTIL THE SIGN IS RE-ESTABLISHED.

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 AND R11-4 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.

ALL SIGNS SHALL BE 48" X 48" UNLESS OTHERWISE NOTED BELOW:
R11-2 SHALL BE 48" X 30".
R11-4 AND R11-3 SHALL BE 60" X 30".

*OMIT THE "ROAD CLOSED 500 FT." SIGN IF THE LAST INTERSECTION IS 500 FT. OR LESS FROM THE WORK ZONE.

**500' MAX. OR AT LAST INTERSECTION WHICHEVER IS CLOSER.

LEGEND

SIGN ON PERMANENT SUPPORT

TYPE III BARRICADE

TYPE III BARRICADE WITH
ATTACHED SIGN

(A) TYPE "A" WARNING LIGHT (FLASHING)

WORK AREA

BARRICADES AND SIGNS FOR SIDEROAD CLOSURES

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

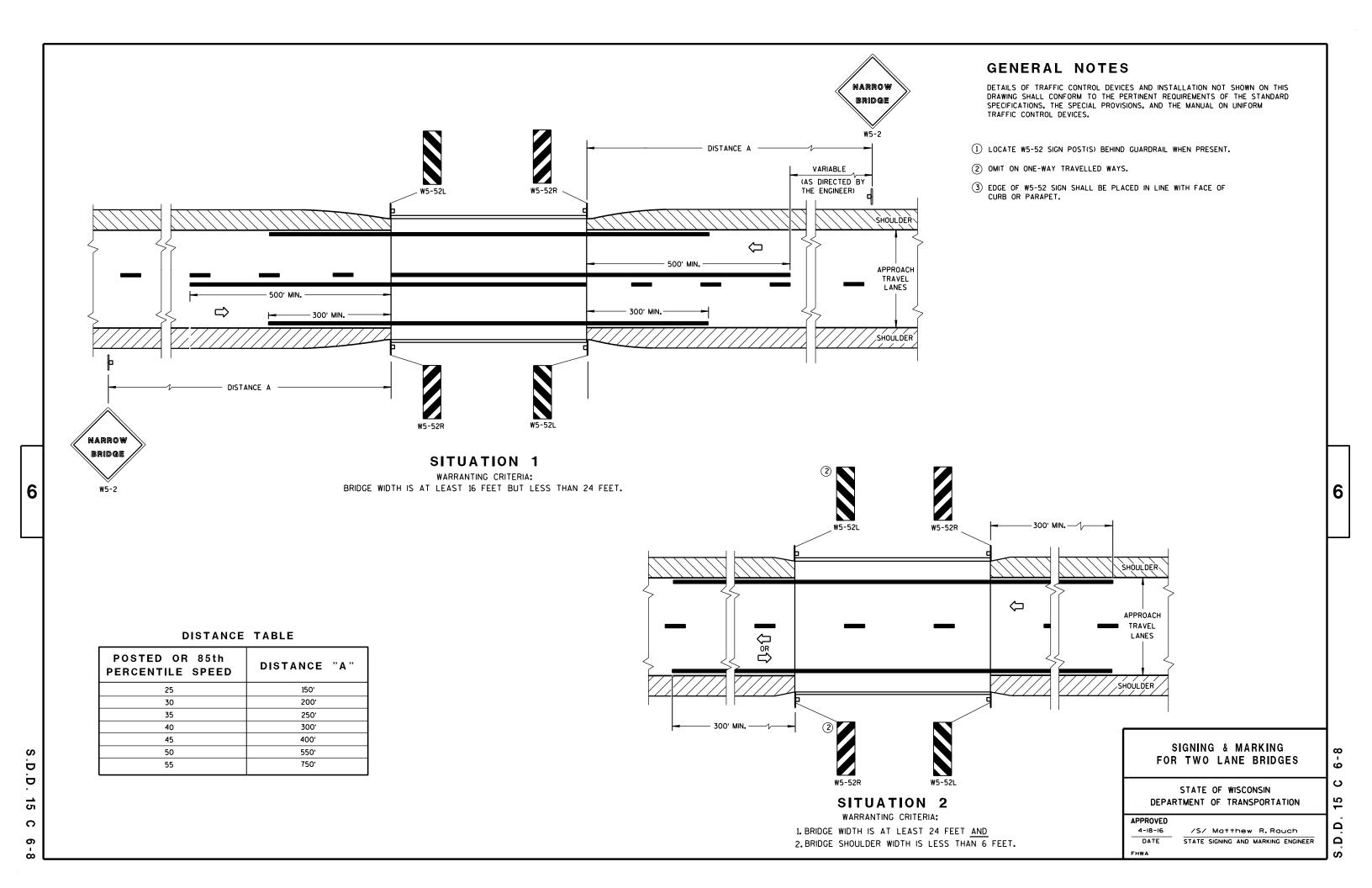
APPROVED

Sept. 2015

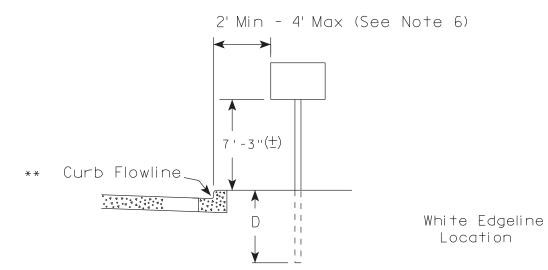
DATE
STATEWIDE WORK ZONE TRAFFIC
SAFETY ENGINEER

S.D.D. 15 C 3

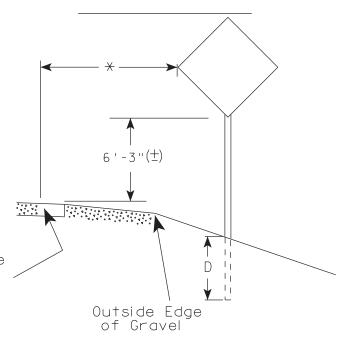
6



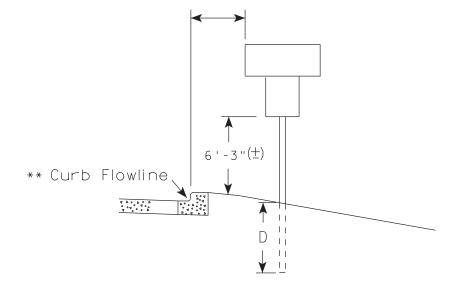
URBAN ARFA



RURAL AREA (See Note 2)



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



5'-3"(生) White Edgeline D IILocation Outside Edae of Gravel

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

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

* 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.

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

D
(Min)
4'
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>

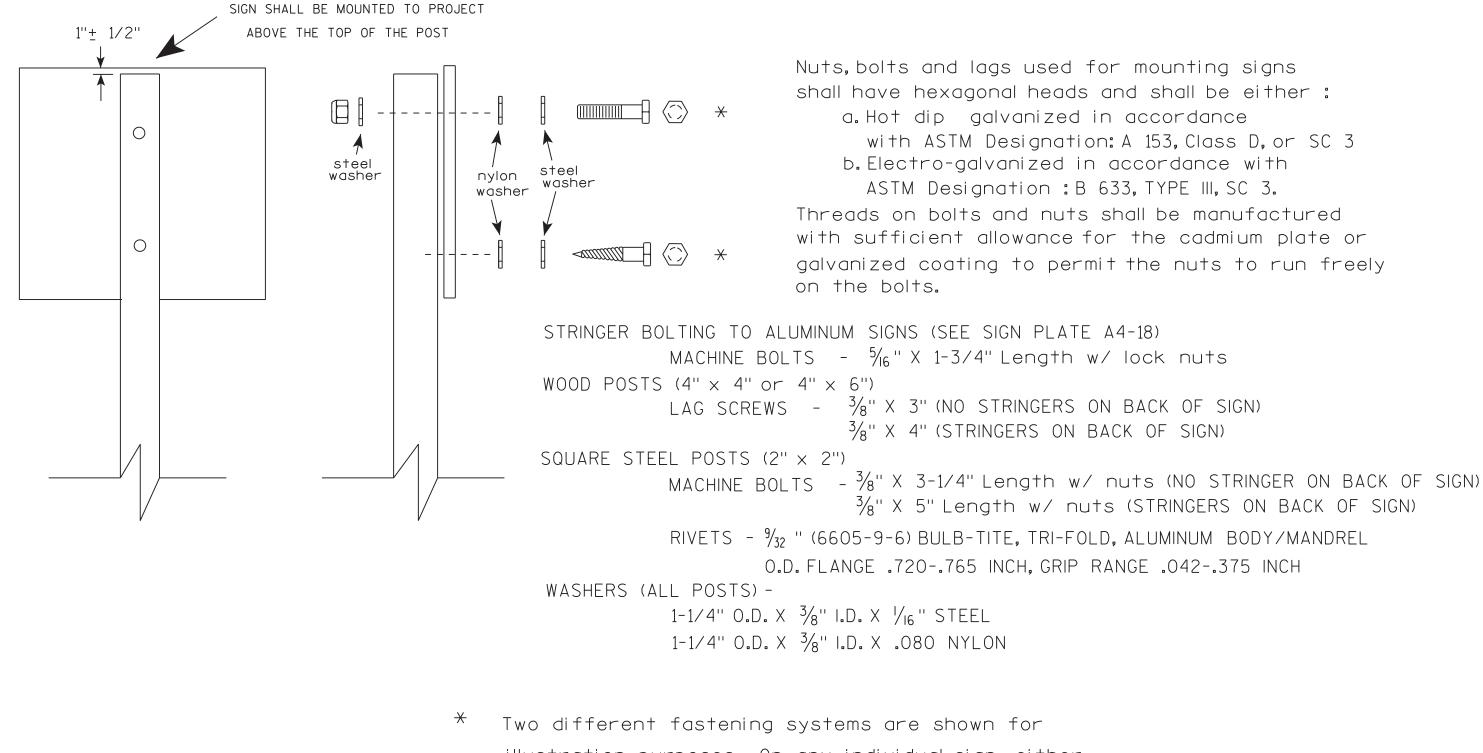
HWY:

COUNTY:

PLOT DATE: 23-JUL-2015 15:21 PLOT BY : mscj9h PLOT NAME :

PLOT SCALE: 99.237937:1.000000

PROJECT NO:



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

For State Traffic Engineer

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

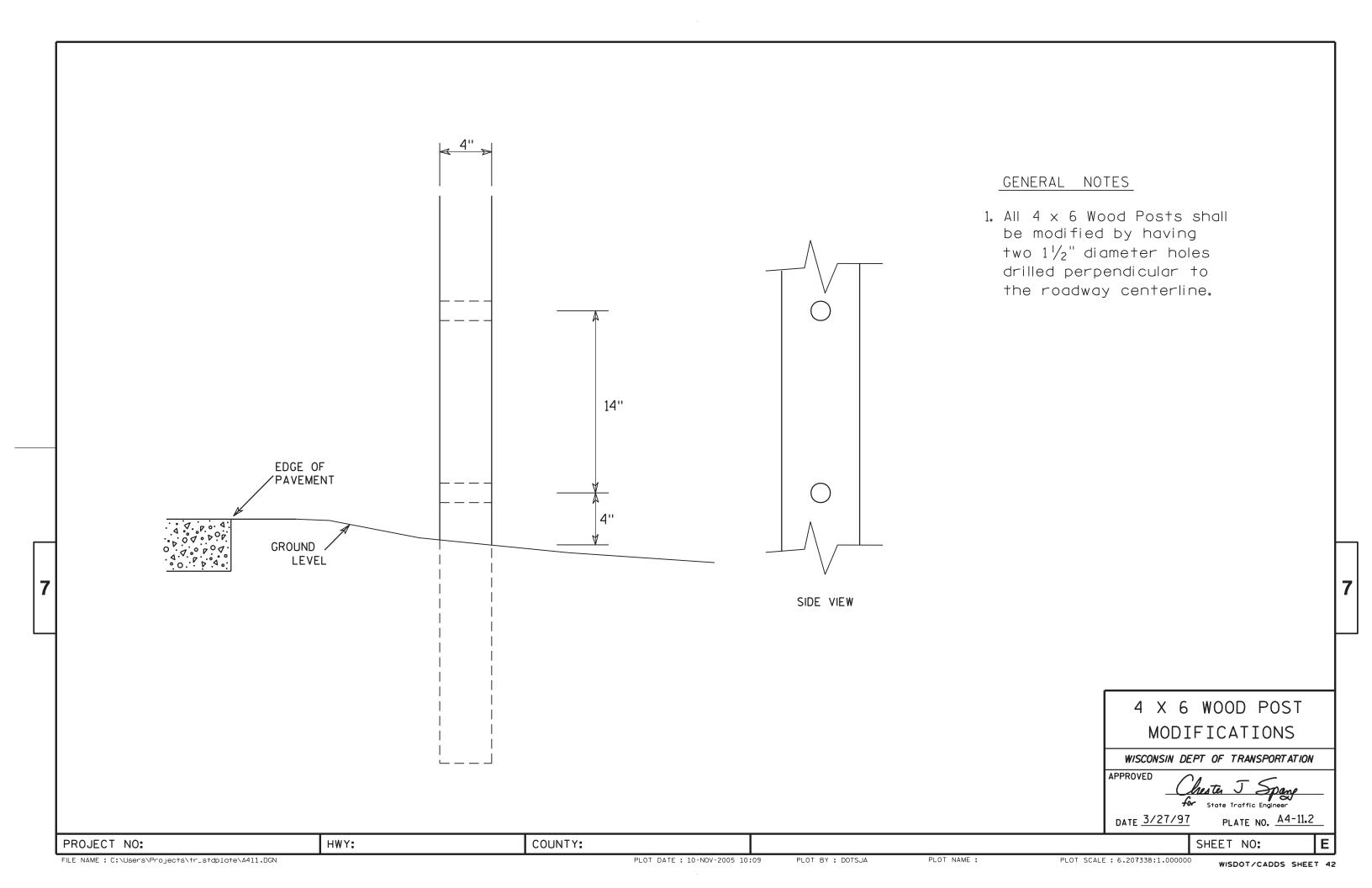
SHEET NO:

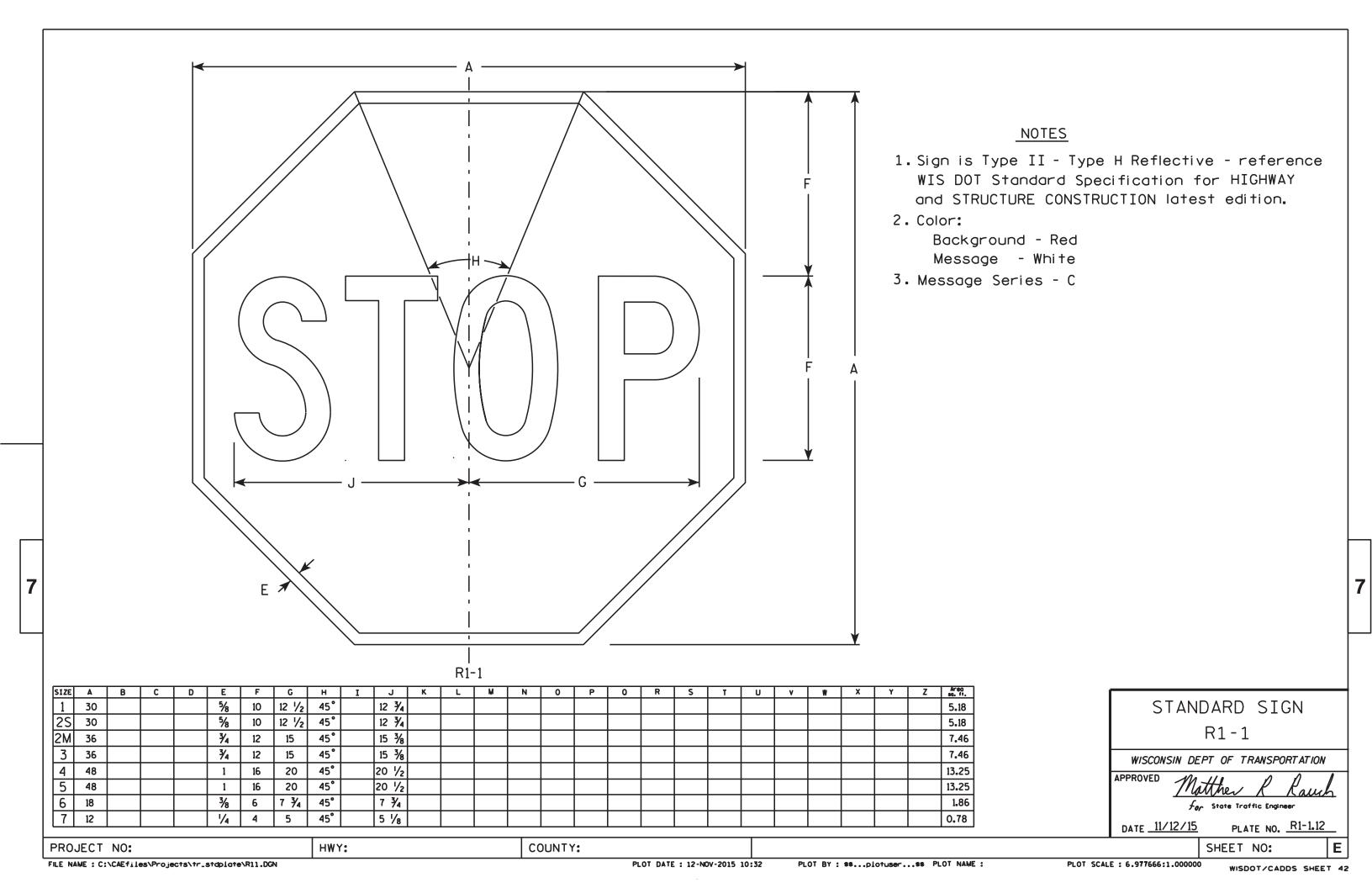
FILE NAME . C.\CAFfiles\Projects\tr stdolote\A48 DGN

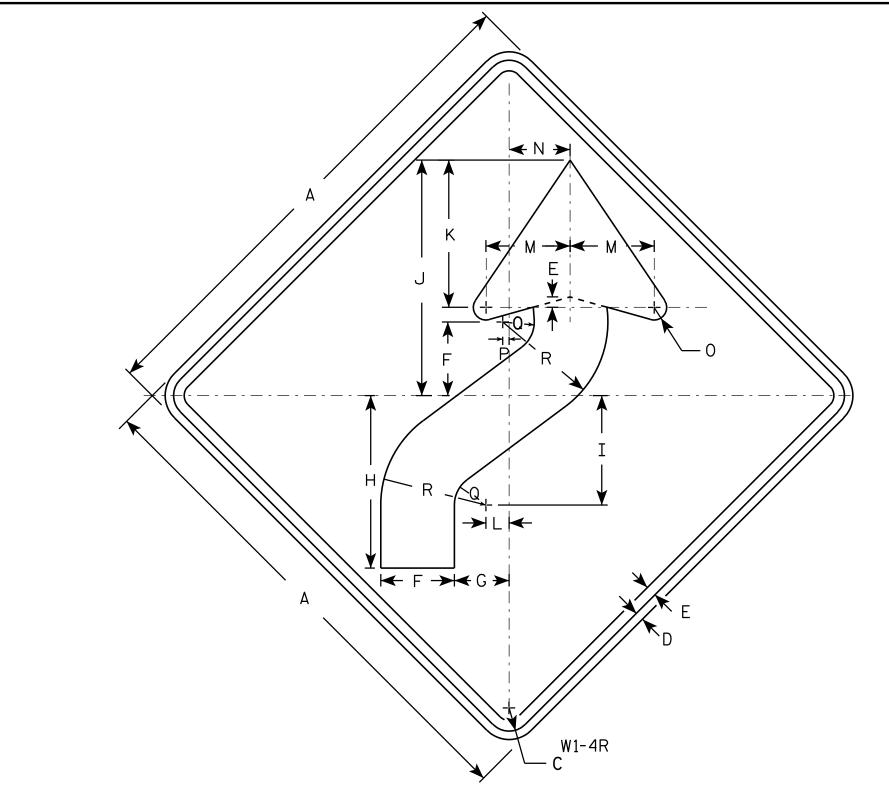
PROJECT NO:

PLOT DATE . 11-4HG-2016 11:35

PLOT RY • \$\$ plotuser







NOTES

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

Background - Yellow Message - Black

- 3. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.
- 4. W1-4L is the same as W1-4R except the arrow is reversed along the vertical centerline.

3 1/2 2 5/8 8 1/4 5 1/4 11 1/4 5/8 1/4 1 1/2 5 24 1 1/8 4.0 25 3 5/8 3/4 3/8 1 1/8 6 1/4 30 4 3/8 3 1/4 10 1/4 6 1/2 14 8 3/4 1 3/8 6.25 36 12 3/8 7 1/8 16 1/8 10 1/2 1 5/8 4 1/2 1 1/2 2 1/4 7 1/2 9.0 3 12 3/8 7 1/8 16 1/8 10 1/2 1 5/8 36 5 1/4 4 1/2 | 1 1/2 2 1/4 7 1/2 9.0 4 36 1 % 5 1/4 | 12 3/8 | 7 3/8 | 16 3/8 | 10 1/2 | 1 5/8 4 1/2 1 2 1/4 7 1/2 1/2 9.0 5 48 5 1/4 16 1/2 10 1/2 22 1/2 14 2 1/4 6 1 1/4 16.0

STANDARD SIGN W1 - 4

WISCONSIN DEPT OF TRANSPORTATION

APPROVED

For State Traffic Engineer

SHEET NO:

DATE <u>5/17/12</u>

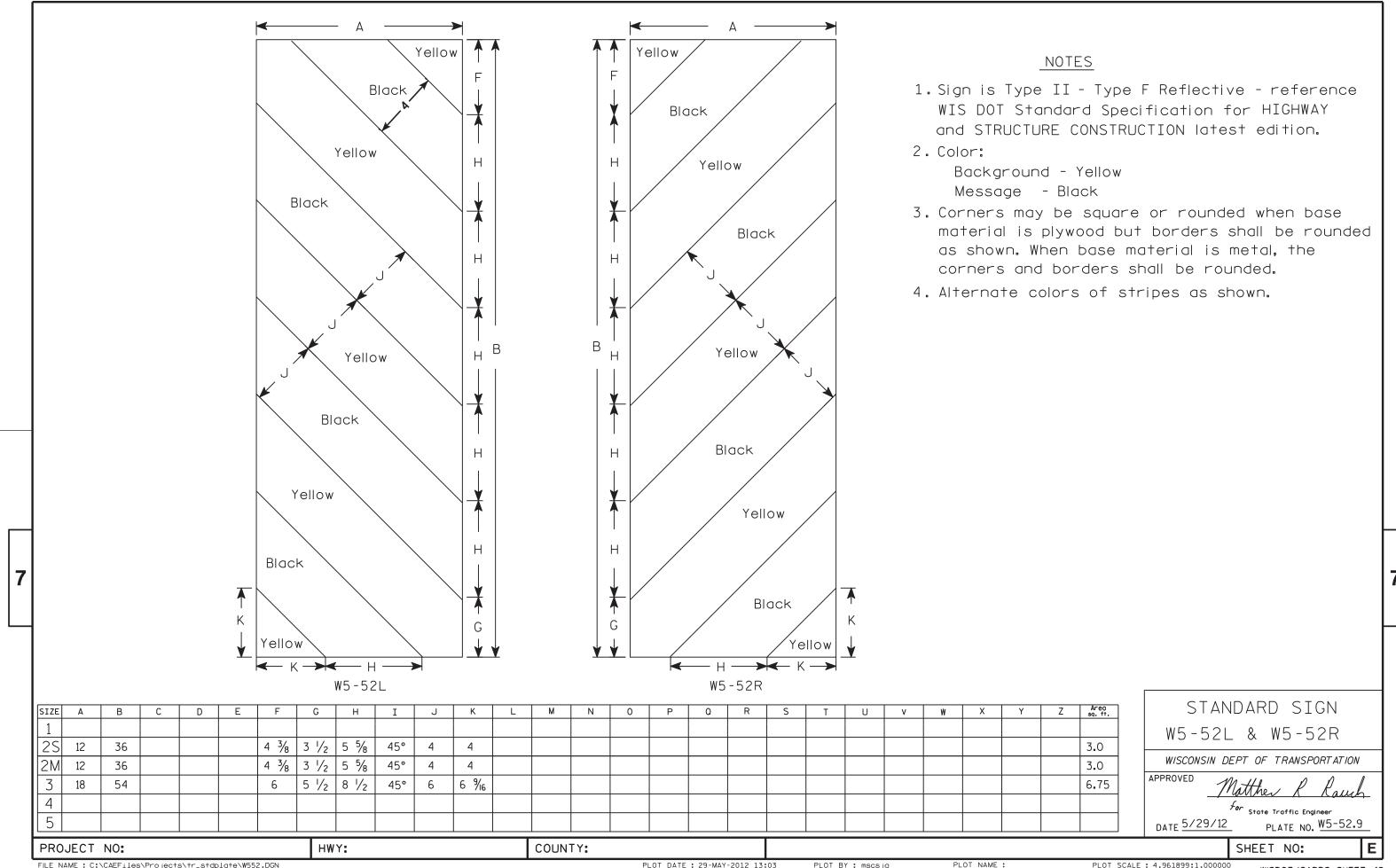
PLATE NO. W1-4.11

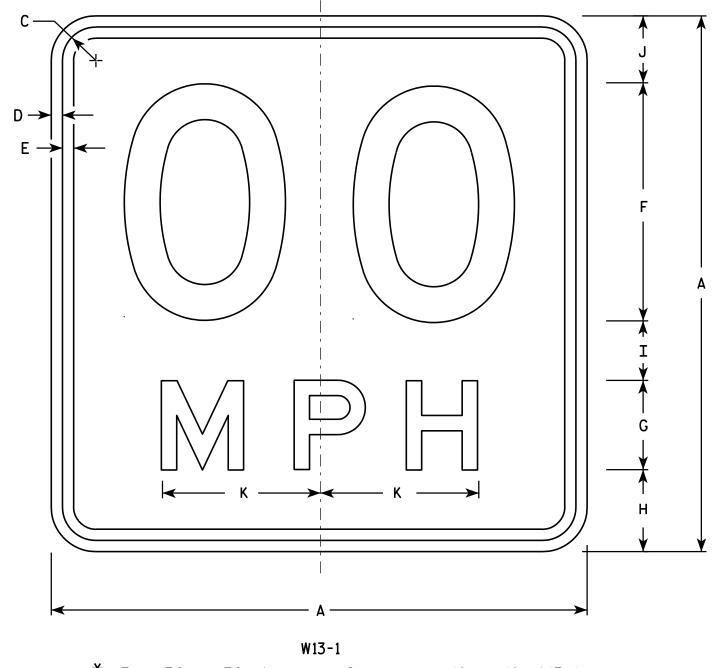
HWY:

COUNTY:

PLOT NAME :

PROJECT NO:





NOTES

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

Background - Yellow Message - Black

- 3. Message Series See Note 6
- 4. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.
- 5. Substitute appropriate numerals and optically space about centerline to achieve proper balance.
- 6. Line 1 is Series D Line 2 is Series E

* For 30" \times 30" Warning Signs, use 18" \times 18" W13-1 signs. For 36" \times 36" Warning Signs, use 24" \times 24" W13-1 signs.

SIZE	A	В	С	D	E	F	G	Н	I	J	K	٦	М	N	0	Ρ	0	R	S	T	U	٧	W	X	Y	Z	Area sq. ft.
1	18		1 1/8	3/8	3/8	8	3	2 3/4	2	2 1/4	5 3%																2.25
* 2S	18		1 1/8	3/8	3/8	8	3	2 3/4	2	2 1/4	5 %																2.25
* 2M	18		1 1/8	3/8	3/8	8	3	2 3/4	2	2 1/4	5 3/8																2.25
3	24		1 1/8	3/8	1/2	10	4	4	2 3/4	3 1/4	6 %																4.00
4	36		1 5/8	5/8	3/4	16	6	5 1/2	4	4 1/2	10 %																9.00
5	36		1 %	5/8	3/4	16	6	5 1/2	4	4 1/2	10 %																9.00

COUNTY:

STANDARD SIGN W13-1

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew

For State Traffic Engineer

DATE 5/31/12 PLATE NO. W13-1.16

SHEET NO:

FILE NAME : C:\CAEFiles\Projects\tr_stdplate\W131.DGN

HWY:

PROJECT NO:

PLOT DATE: 31-MAY-2012 10:57

PLOT BY: mscsja

PLOT NAME :

PLOT SCALE: 3.225232:1.000000

WISDOT/CADDS SHEET 42



5671-00-76

DESIGN DATA

LIVE LOAD:

DESIGN LOADING	HL-93
INVENTORY RATING FACTOR	RF=1.28
OPERATING RATING FACTOR	RF=1.66
WISCONSIN STANDARD PERMIT VEHICLE (WIS-SPV)	250 KIP

STRUCTURE IS DESIGNED FOR A FUTURE WEARING SURFACE OF 20 P.S.F.

MATERIAL PROPERTIES:

CONCRETE MASONRY, SLAB	f'c = 4,000 P.S.I.
ALL OTHER	f'c = 3,500 P.S.I.
HIGH-STRENGTH BAR STEEL	
REINFORCEMENT, GRADE 60	fy = 60,000 P.S.I.

FOUNDATION DATA

ABUTMENTS TO BE SUPPORTED ON PILING STEEL HP 10-INCH X 42 LB DRIVEN TO A ABOUNDENTS TO BE SUPPORTED ON PILING STEEL OF JUNEAU A 42 LB DAIVEN TO A
** REQUIRED DRIVING RESISTANCE OF 100 TONS PER PILE AS DETERMINED BY THE
MODIFIED GATES DYNAMIC FORMULA. ESTIMATE 30 FT PILE LENGTHS AT BOTH

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

TRAFFIC DATA

A.D.T. (2018) _	 .70
A.D.T. (2038) _	 250
DESIGN SPEED	 30 M.P.H.

HYDRAULIC DATA

100-YEAR FREQUENCY	
DRAINAGE AREA	1.9 SQ. MI.
Q100 TOTAL	1,130 C.F.S.
THROUGH STRUCTURE	1.130 C.F.S.
OVERTOPPING ROADWAY	N.A.
VELOCITY - THROUGH STRUCTURE	10.7 F.P.S.
WATERWAY AREA - THROUGH STRUCTURE	105.5 SQ. FT.
HIGH WATER100 ELEVATION	844.49
SCOUR CRITICAL CODE	5

EROSION CONTROL

215 C.F.S. HIGH WATER2 ELEVATION 840.31

LIST OF DRAWINGS

GENERAL PLAN	1.
CROSS SECTION AND QUANTITIES	2.
SUBSURFACE EXPLORATION	3.
ABUTMENTS	4.
ABUTMENT DETAILS	5.
SUPERSTRUCTURE	6.
TUBULAR RAILING TYPE M	7.
CONSTRUCTION DETAILS	8.

12+05 38' LT. 12+18 38' LT. 38' LT. 12+37 12+52 38' LT. 12+25 37' RT. 12+09 37' RT. 11+90 37' RT. G H 11+78 37' RT.

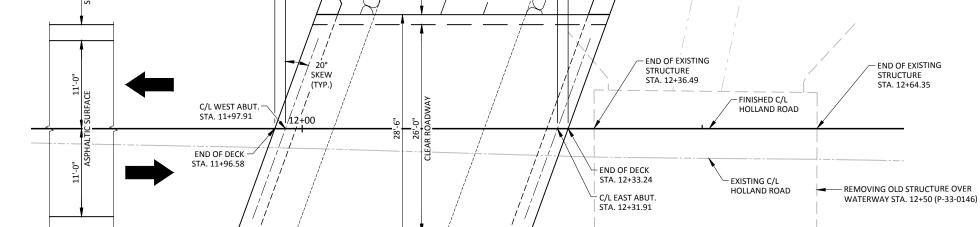
RIPRAP HEAVY LAYOUT

SCENIC RIVERS

ENERGY CO-OP.

(TO REMAIN)

POINT STATION OFFSET



36'-8" BACK TO BACK OF ABUTMENTS

34'-0" SPAN

1'-4"

CENTURYLINK -

NAME PLATE LOCATION

EL. 838.57 —

AND BENCHMARK CAP

SHEET 4.

(TO BE RELOCATED)

850

-835

825

BENCH MARKS											
NO.	STA.	DESCRIPTION	ELEV.								
1	14+51	3/4" IRON REBAR SET, 23.5' LT	858.80								
2	22+56	3/4" IRON REBAR SET, 11.7' LT	846.68								
3	10+18	3/4" IRON REBAR SET, 12.9' RT	846.15								
4	13+85	COTTON GIN SPINDLE SET IN PP, 24.9' LT	853.89								
5	11+48	COTTON GIN SPINDLE SET IN PP, 23.8' LT	844.36								

PLAN B-33-130 (SINGLE-SPAN REINFORCED CONCRETE FLAT SLAB)

NAME PLATE LOCATION. WING 1 ONLY. FOR DETAILS SEE SHEET 4.

FINISHED C/L PROFILE -HOLLAND ROAD HIGH WATER₁₀₀ TUBULAR RAILING TYPE M EL = 844.49 (SEE SHEET 7 FOR DETAILS) EL. 841.88 -EL. 841.07 EXISTING GROUND LINE AT FINISHED C/L HOLLAND ROAD (WHEN SUPPLIED). WING 1 ONLY. FOR DETAILS SEE

- EL. 839.38

RIPRAP HEAVY

RIPRAP HEAVY OVER GEOTEXTILE TYPE HR (TYP.)

CHANNEL REALIGNMENT -

REQ'D. SEE SHEET 8 FOR

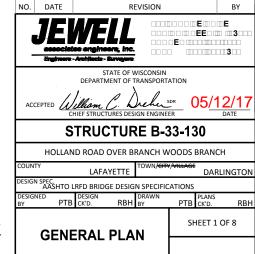
DETAILS.

1'-4"

DESIGN CONSULTANT PATRICK BOLAND, PE

WILLIAM DREHER, PE

BRIDGE OFFICE CONTACT (608) 266-8489

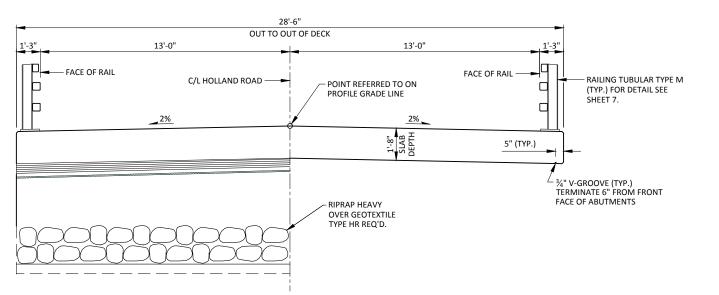


HIGH WATER₂ DEL = 840.31 OBSERVED WATER 4'-0" OVER GEOTEXTILE EL. 837.49 (1-8-2016) EXCAVATION FOR NEW STRUCTURE TO BE INCLUDED TYPE HR (TYP.) FXISTING IN THE BID ITEM "EXCAVATION FOR STRUCTURES STREAMBED -PILING STEEL HP STREAMBED EL. BRIDGES B-33-130". EARTH WORK AT CHANNEL EL. 836.34 10-INCH X 42 LB. (TYP.) 836.78 REALIGNMENT TO BE INCLUDED IN CATEGORY 010 MAINLINE QUANTITIES **ELEVATION** (NORMAL TO BRANCH WOODS BRANCH) (608) 588-7484

PATRICK

T. BOLAND E-36303

5671-00-76



IN SPAN

PROPOSED CROSS-SECTION THROUGH ROADWAY

★ 6" NOMINAL **SECTION A-A** 3/8" MAX.

RODENT SCREEN

 \star dimensions are approximate. The grate is sized to fit into a PIPE COUPLING.

ORIENT SCREEN SO SLOTS ARE VERTICAL.

THE RODENT SCREEN, PIPE COUPLING AND SCREWS SHALL BE CONSIDERED INCIDENTAL TO THE BID ITEM "PIPE UNDERDRAIN WRAPPED 6-INCH"

THE RODENT SCREEN 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 SCREEN TO THE EXPOSED ENDS OF THE PIPE UNDERDRAIN. THE SCREEN SHALL BE FASTENED TO THE PIPE COUPLING WITH TWO OR MORE NO. 10 X 1-INCH STAINLESS STEEL SHEET METAL SCREWS.

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

BACKFILL STRUCTURE TYPE A. SEE THIS SHEET FOR DETAIL. EXCAVATION BELOW THE ABUTMENT AND ABUTMENT BEDDING MATERIALS REQUIRES ENGINEER APPROVAL. GEOTEXTILE SHALL BE SET AT THE BOTTOM OF EXCAVATION AND EXTEND $2^{\rm L}$ 0" ABOVE

ELEVATIONS SHOWN ON THE PLAN ARE REFERENCED TO THE NORTH AMERICA VERTICAL DATUM OF

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

JOINT FILLER SHALL CONFORM TO A.A.S.H.T.O. DESIGNATION MI53, TYPE I, II OR III OR A.A.S.H.T.O.

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

APPLY PROTECTIVE SURFACE TREATMENT TO THE TOP OF THE DECK, THE SIDES OF THE DECK AND EXTERIOR 12" OF THE UNDERSIDE OF THE DECK (CONCRETE MATERIAL ONLY).

THE EXISTING STRUCTURE (P-33-146) IS A SINGLE-SPAN FLAT SLAB STRUCTURE SUPPORTED ON FULL RETAINING CONCRETE ABUTMENTS. THE STRUCTURE HAS A CLEAR ROADWAY WIDTH OF 17' AND IS 28' LONG AND SHALL BE REMOVED.

ALL STATIONS AND ELEVATIONS SHOWN ARE IN FEET.

GENERAL NOTES

1988 (NAVD 88).

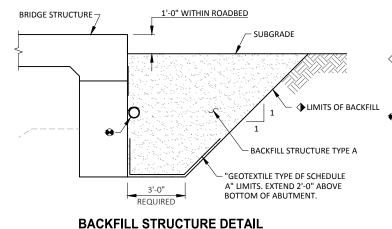
DESIGNATION M213.

DRAWINGS SHALL NOT BE SCALED.

THE EXISTING GROUNDLINE SHALL BE THE UPPER LIMITS OF EXCAVATION FOR STRUCTURES.

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

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



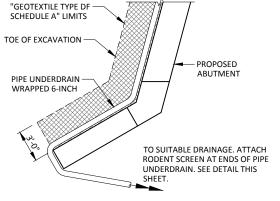
(TYPICAL AT BOTH ABUTMENTS)

AT ABUTMENT

◆ BACKFILL STRUCTURE TYPE A PAY LIMITS. BACKFILL BEYOND PAY LIMITS SHALL BE INCIDENTAL TO THE BID ITEM "EXCAVATION FOR STRUCTURES B-33-130". LIMITS OF EXCAVATION SHALL BE DETERMINED BY

● PIPE UNDERDRAIN WRAPPED (6-INCH), SLOPED 0.5% MIN. TO SUITABLE DRAINAGE. ATTACH RODENT SCREEN AT ENDS OF PIPE UNDERDRAIN AS DETAILED ON THIS SHEET. RODENT SCREEN TO BE INCLUDED IN THE BID ITEM "PIPE UNDERDRAIN WRAPPED 6-INCH."

PIPE UNDERDRAIN DETAIL



- PLATE %"x5"x5" DOUBLER. PLATE AT SEE HP WELD` **FLANGE** DETAIL **GRIND FLUSH WELD** UNDER DOUBLER PLATE SEE HP WFID TYP DETAIL IF DOUBLER PLATE IS **HP WELD DETAIL** HP10x42 PLACED FIRST FLANGE SHOWN, WEB SIMILAR

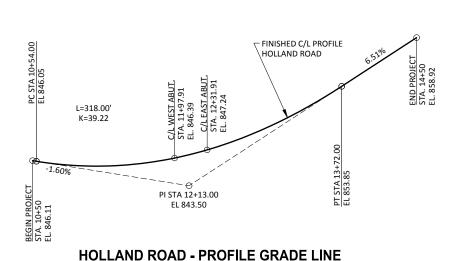
PILE SPLICE DETAIL

STEEL "HP" PILE MATERIAL SHALL BE ASTM A 572 GRADE 50

TOTAL ESTIMATED QUANTITIES

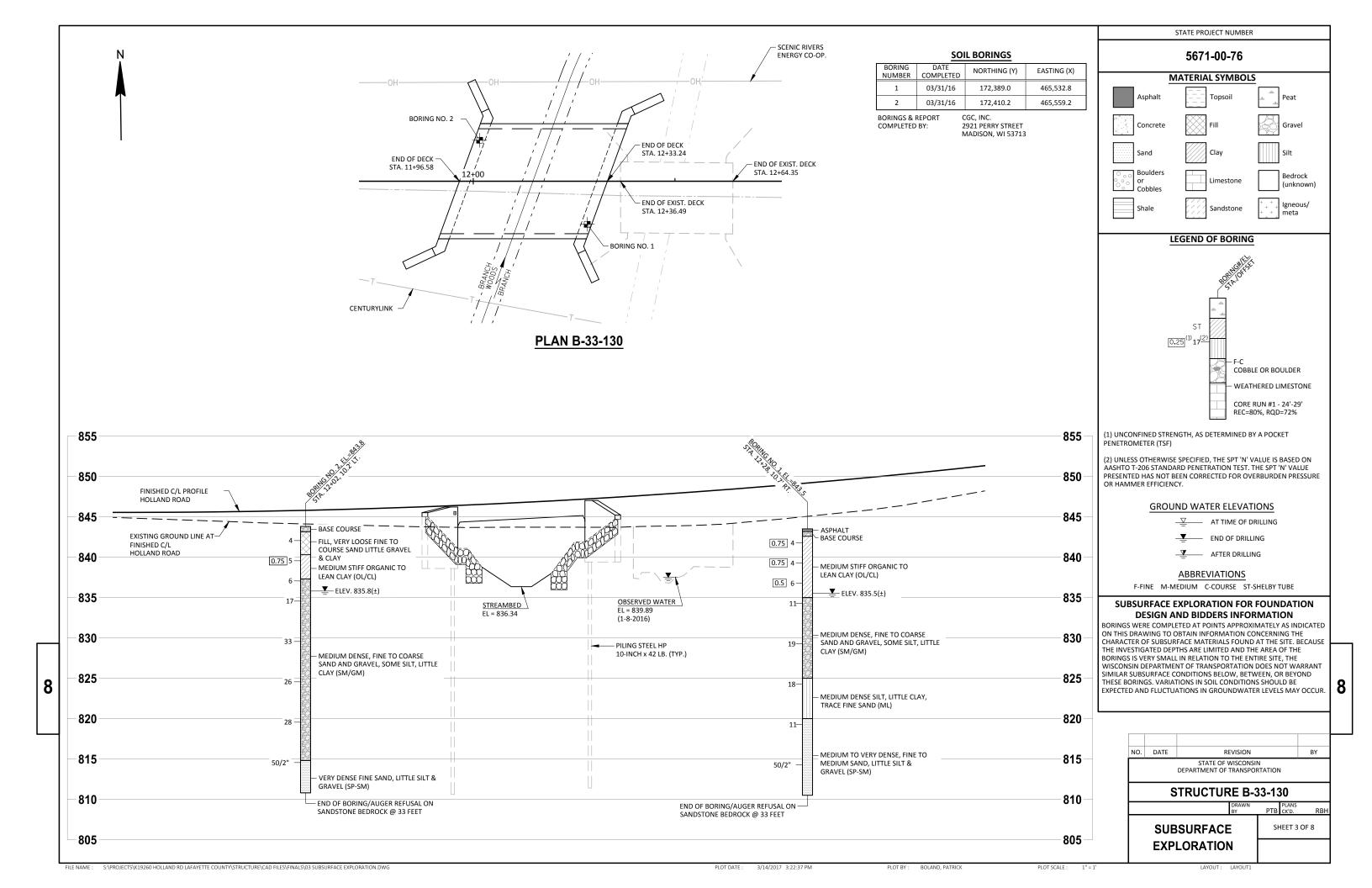
	ITEM NUMBER	ITEM DESCRIPTION	UNIT	W. ABUT.	SUPER	E. ABUT.	TOTALS
	203.0500.S	REMOVING OLD STRUCTURE OVER WATERWAY STA. 12+50	LS				1
Γ	206.1000	EXCAVATION FOR STRUCTURES BRIDGES B-33-130	LS	-			1
Γ	210.1500	BACKFILL STRUCTURE TYPE A	TON	125		125	250
	502.0100	CONCRETE MASONRY BRIDGES	CY	28	69	28	125
	502.3200	PROTECTIVE SURFACE TREATMENT	SY		140		140
	505.0400	BAR STEEL REINFORCEMENT HS STRUCTURES	LB	2,265		2,265	4,530
	505.0600	BAR STEEL REINFORCEMENT HS COATED STRUCTURES	LB	1,335	12,420	1,335	15,090
	513.4061	RAILING TUBULAR TYPE M B-33-130	LF		77		77
	516.0500	RUBBERIZED MEMBRANE WATERPROOFING	SY	6		6	12
	550.1100	PILING STEEL HP 10-INCH X 42 LB	LF	205		205	410
abla	606.0300	RIPRAP HEAVY	CY	70		90	160
	612.0406	PIPE UNDERDRAIN WRAPPED 6-INCH	LF	90		90	180
	645.0111	GEOTEXTILE TYPE DF SCHEDULE A	SY	45		45	90
abla	645.0120	GEOTEXTILE TYPE HR	SY	120		150	270
E		NON-BID ITEMS					
		FILLER	SIZE				1/2" & 3/4"
L							

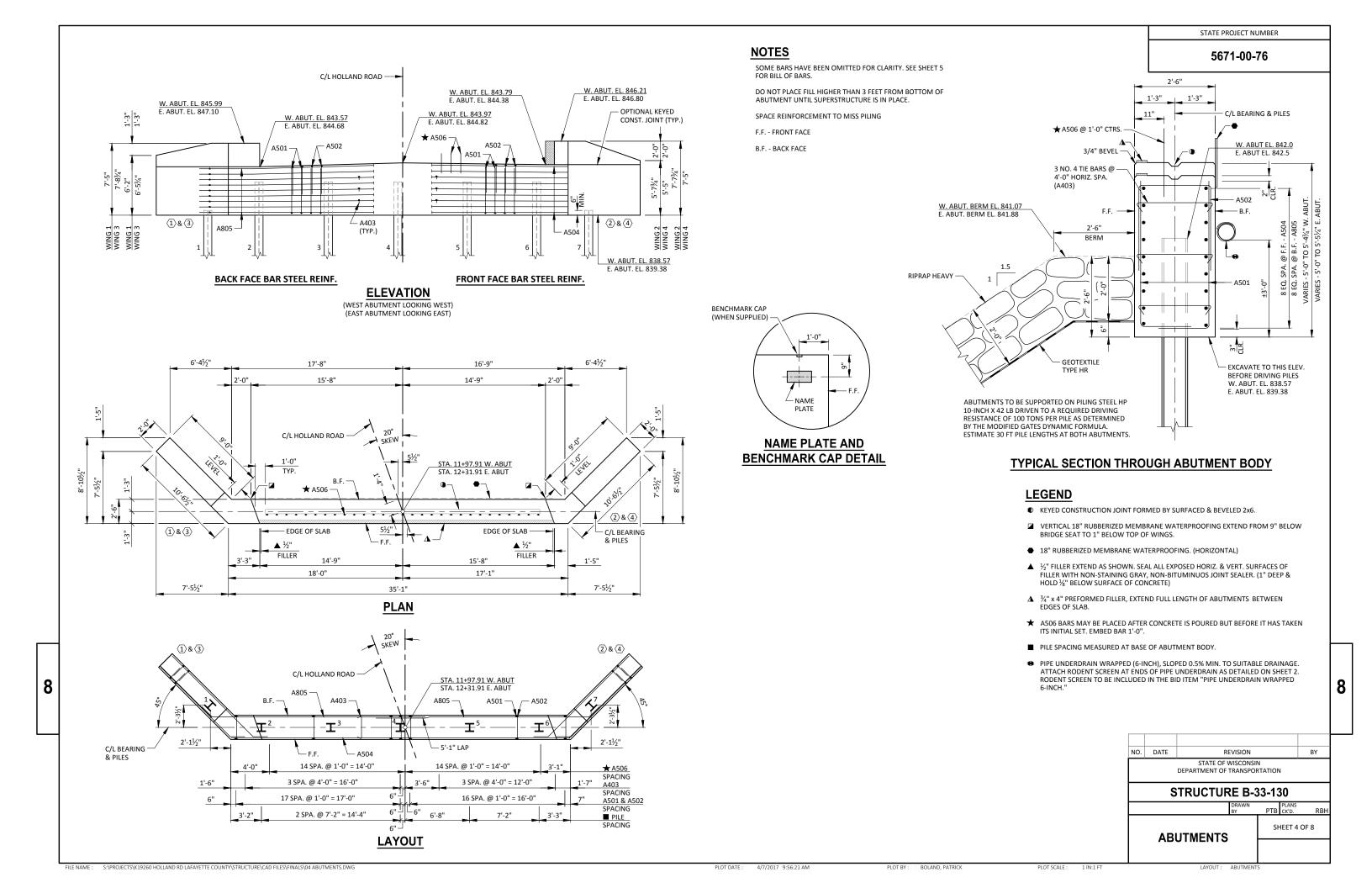
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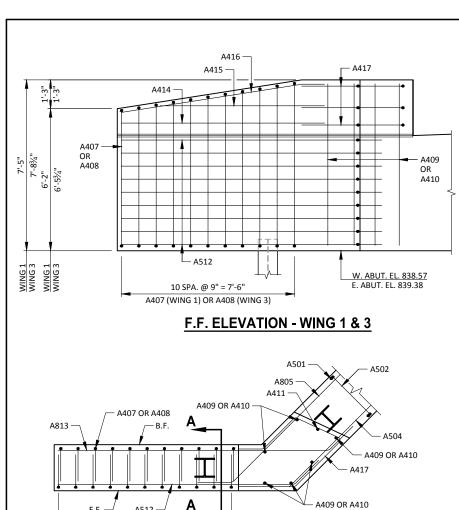


DATE STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION **STRUCTURE B-33-130** SHEET 2 OF 8

CROSS SECTIONS AND QUANTITIES







10 SPA. @ 9" = 7'-6"

A407 (WING 1) OR A408 (WING 3)

AT F.F. & B.F.

8

PLAN VIEW - WING 1 & 3

LEGEND

A415 -A414 -

F.F.

8 EQ. SPA A512

 OPTIONAL KEYED CONSTRUCTION JOINT FORMED BY SURFACED & BEVELED 2x6. 3/4" "V" GROOVE AT FRONT FACE OF WING WALL AND HORIZONTAL 18" RUBBERIZED MEMBRANE WATERPROOFING AT BACK FACE IF CONSTRUCTION JOINT IS USED. COST IS INCIDENTAL TO THE BID ITEM "CONCRETE MASONRY BRIDGES".

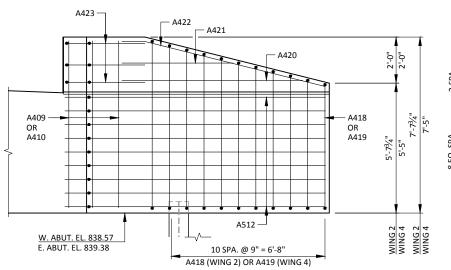
NOTES

SOME BARS HAVE BEEN OMITTED FOR CLARITY. SEE THIS SHEET FOR BILL OF BARS.

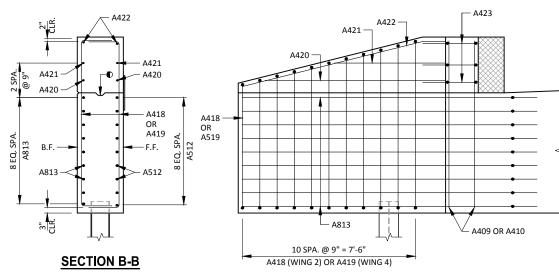
SPACE REINFORCEMENT TO MISS PILING

F.F. - FRONT FACE

B.F. - BACK FACE



F.F. ELEVATION - WING 2 & 4



B.F. ELEVATION - WING 2 & 4

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

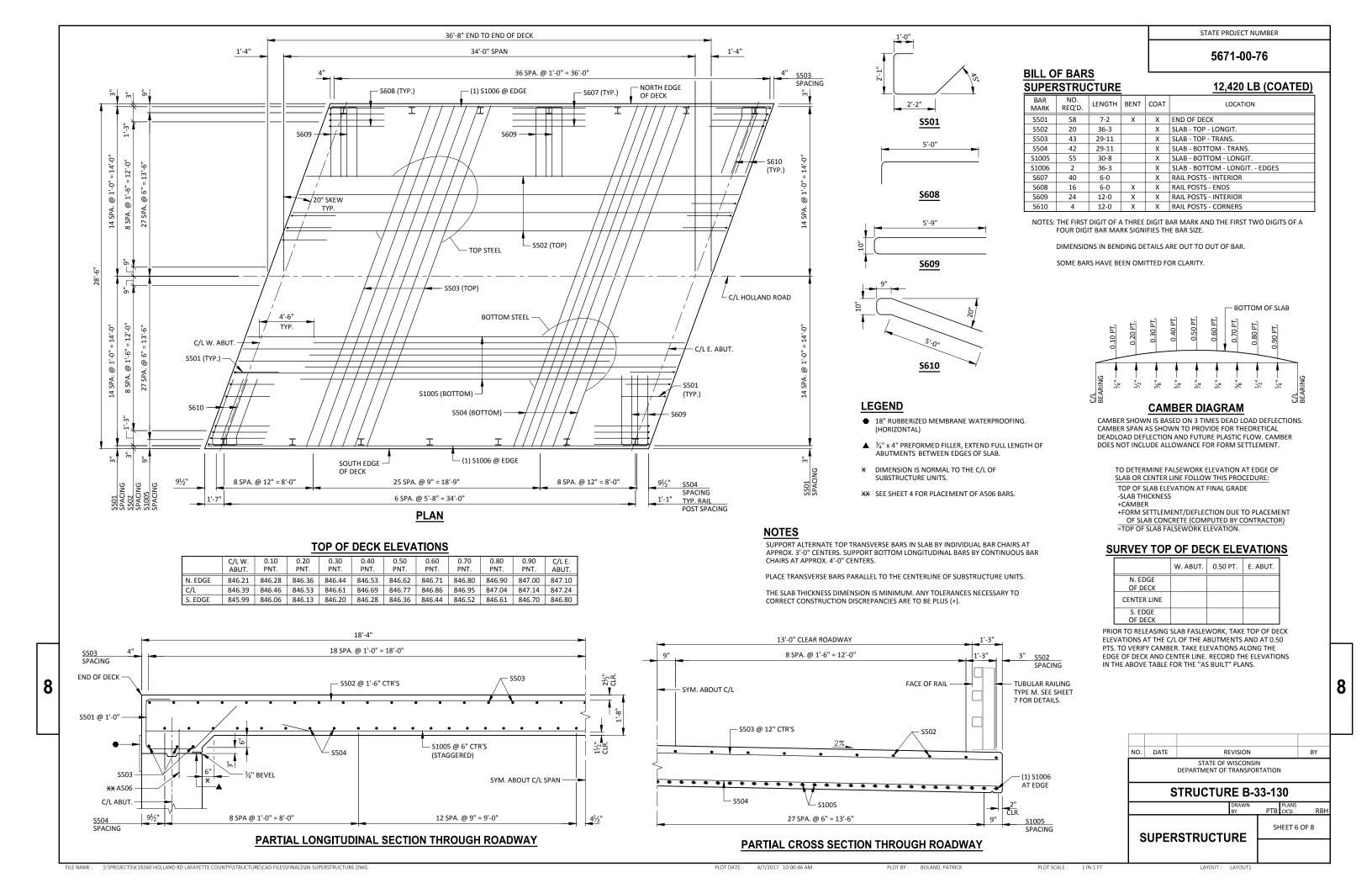
STRUCTURE B-33-130

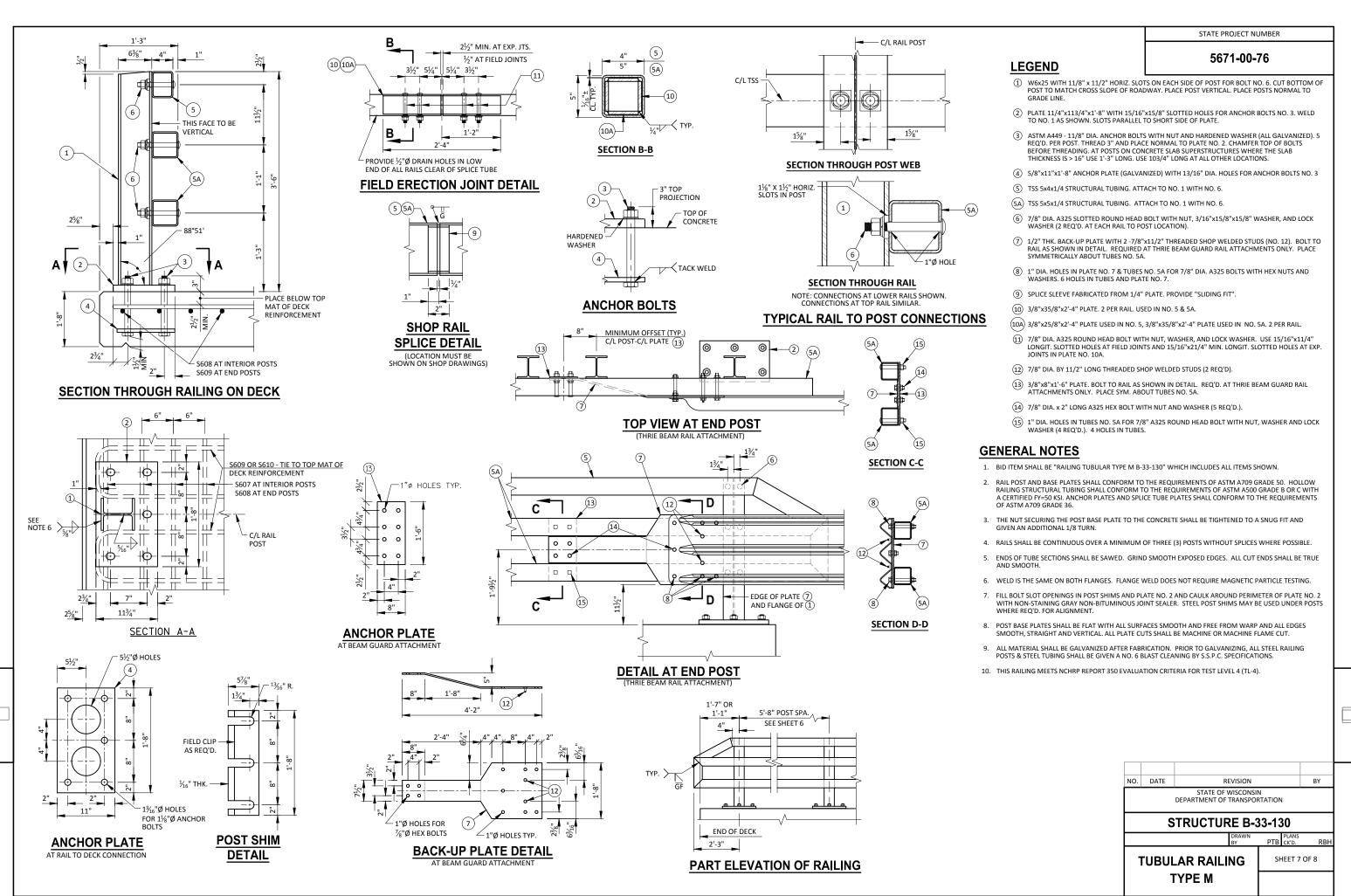
SHEET 5 OF 8 **ABUTMENT DETAILS**

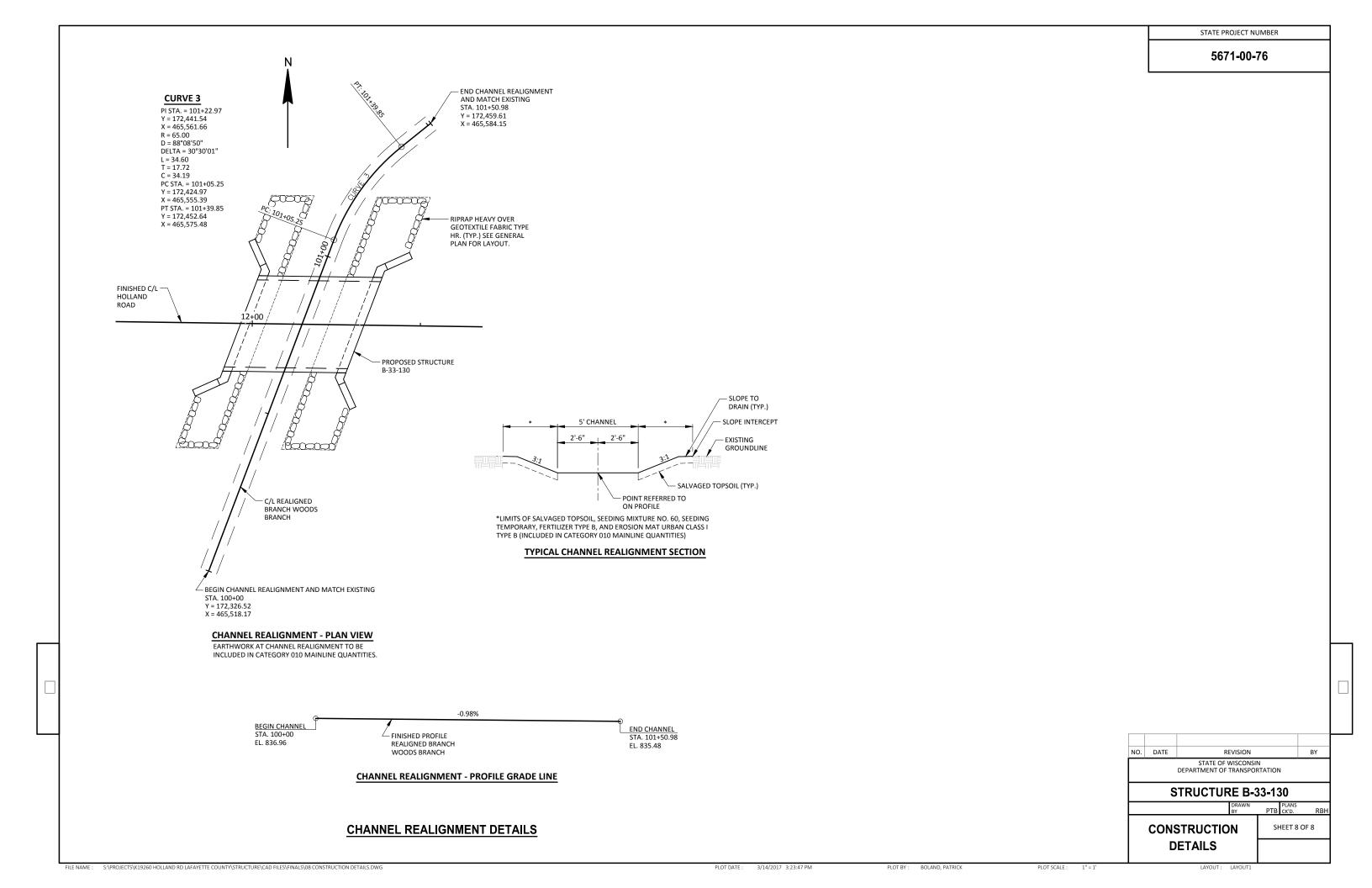
MARK 'A' A416 171°07'

A422 165°57'

A416 & A422







EARTHWORK-MAINLINE

	AREA (SF)				INCREMEN	NTAL VOL (CY)	CUMMULATIVE VOLUME (CY)									
						SALVAGED/			EXPANDED					EXPANDED		
		SALVAGED/				UNUSABLE			ROCK	FILL	CUT			ROCK	FILL	MASS
		UNUSABLE			CUT	PAV'T MATERIAL	FILL		(1.1)		1.00			(1.1)	(25%)	ORDINATE
STATION	CUT	PAV'T MATERIAL	FILL	ROCK EXC	NOTE 1	NOTE 2	NOTE 3	ROCK EXC	NOTE 4	(25%)	NOTE 1	FILL	ROCK EXC	NOTE 4	NOTE 5	NOTE 6
10+50	49	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11+00	85	0	0	0	124	0	0	0	0	0	124	0	0	0	0	124
11+50	38	0	1	0	114	0	1	0	0	1	238	1	0	0	1	237
11+96	0	0	31	0	33	0	27	0	0	34	271	28	0	0	35	236
11+96	0	0	0	0	0	0	0	0	0	0	271	28	0	0	35	236
12+33	0	0	0	0	0	0	0	0	0	0	271	28	0	0	35	236
12+33	0	0	157	0	0	0	0	0	0	0	271	28	0	0	35	236
12+43	0	0	232	0	0	0	72	0	0	90	271	100	0	0	125	146
12+43	0	0	232	0	0	0	0	0	0	0	271	100	0	0	125	146
12+50	0	0	282	0	0	0	67	0	0	84	271	167	0	0	209	62
13+00	0	0	140	0	0	0	393	0	0	491	271	560	0	0	700	-429
13+43	4	0	27	0	4	0	133	0	0	166	275	693	0	0	866	-591
13+43	4	0	27	0	0	0	0	0	0	0	275	693	0	0	866	-591
13+50	5	0	27	0	1	0	7	0	0	9	276	700	0	0	875	-599
14+00	60	0	0	153	58	0	25	141	155	-163	334	725	141	155	713	-379
14+50	49	0	0	0	101	0	0	142	157	-196	435	725	283	312	516	-81
		-					-				-		-	-	-	
			CO	LUMN SUBTOTALS =	435	0	725	283	312	516						

EARTHWORK-LANGE ROAD

	AREA (SF)				INCREMEN	INCREMENTAL VOL (CY)							CUMMULATIVE VOLUME (CY)						
						SALVAGED/			EXPANDED				EXPANDED						
		SALVAGED/				UNUSABLE			ROCK	FILL	CUT			ROCK	FILL	MASS			
		UNUSABLE			CUT	PAV'T MATERIAL	FILL		(1.1)		1.00			(1.1)	(25%)	ORDINATE			
STATION	CUT	PAV'T MATERIAL	FILL	ROCK EXC	NOTE 1	NOTE 2	NOTE 3	ROCK EXC	NOTE 4	(25%)	NOTE 1	FILL	ROCK EXC	NOTE 4	NOTE 5	NOTE 6			
21+70	45	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0			
22+00	53	0	0	46	56	0	0	26	29	-36	56	0	26	29	-36	92			
22+50	2	0	91	128	51	0	85	166	183	-123	107	85	192	212	-159	266			
22+84	0	0	31	128	1	0	115	165	181	-83	108	200	357	393	-241	349			
											•								
			COL	LUMN SUBTOTALS =	108	0	200	357	393	-241									

EARTHWORK-CHANNEL REALIGNMENT

	AREA (SF	·)			INCREMEN	NTAL VOL (CY)					CUMMULATIVE VOLUME (CY)					
						SALVAGED/			EXPANDED ROCK	FILL				EXPANDED		
		SALVAGED/				UNUSABLE					CUT			ROCK	FILL	MASS
		UNUSABLE			CUT	PAV'T MATERIAL	FILL		(1.1)		1.00			(1.1)	(25%)	ORDINATE
STATION	CUT	PAV'T MATERIAL	FILL	ROCK EXC	NOTE 1	NOTE 2	NOTE 3	ROCK EXC	NOTE 4	(25%)	NOTE 1	FILL	ROCK EXC	NOTE 4	NOTE 5	NOTE 6
100+00	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
100+50	51	0	0	0	47	0	0	0	0	0	47	0	0	0	0	47
101+00	145	0	0	0	184	0	0	0	0	0	231	0	0	0	0	231
101+50	0	0	0	0	136	0	0	0	0	0	367	0	0	0	0	367
			co	LUMN SUBTOTALS =	367	0	0	0	0	0						
				MAINLINE	435	0	725	283	312	516	435	725	283	312	516	-81
				LANGE ROAD	108	0	200	357	393	-241	543	925	640	705	275	268
		C	HANNEL	REALIGNMENT	367	0	0	0	0	0	910	925	640	705	275	635

NOTES:

1 - CUT

2 - SALVAGED/UNUSABLE PAVEMENT MATERIAL 3 - FILL

4 - EXPANDED ROCK FACTOR 5 - FILL (25%) 6 - MASS ORDINATE

CUT INCLUDES SALVAGED/UNUSABLE MATERIAL THIS DOES NOT SHOW UP IN CROSS SECTIONS
DOES NOT INCLUDE UNUSABLE PAVEMENT EXC VOLUME

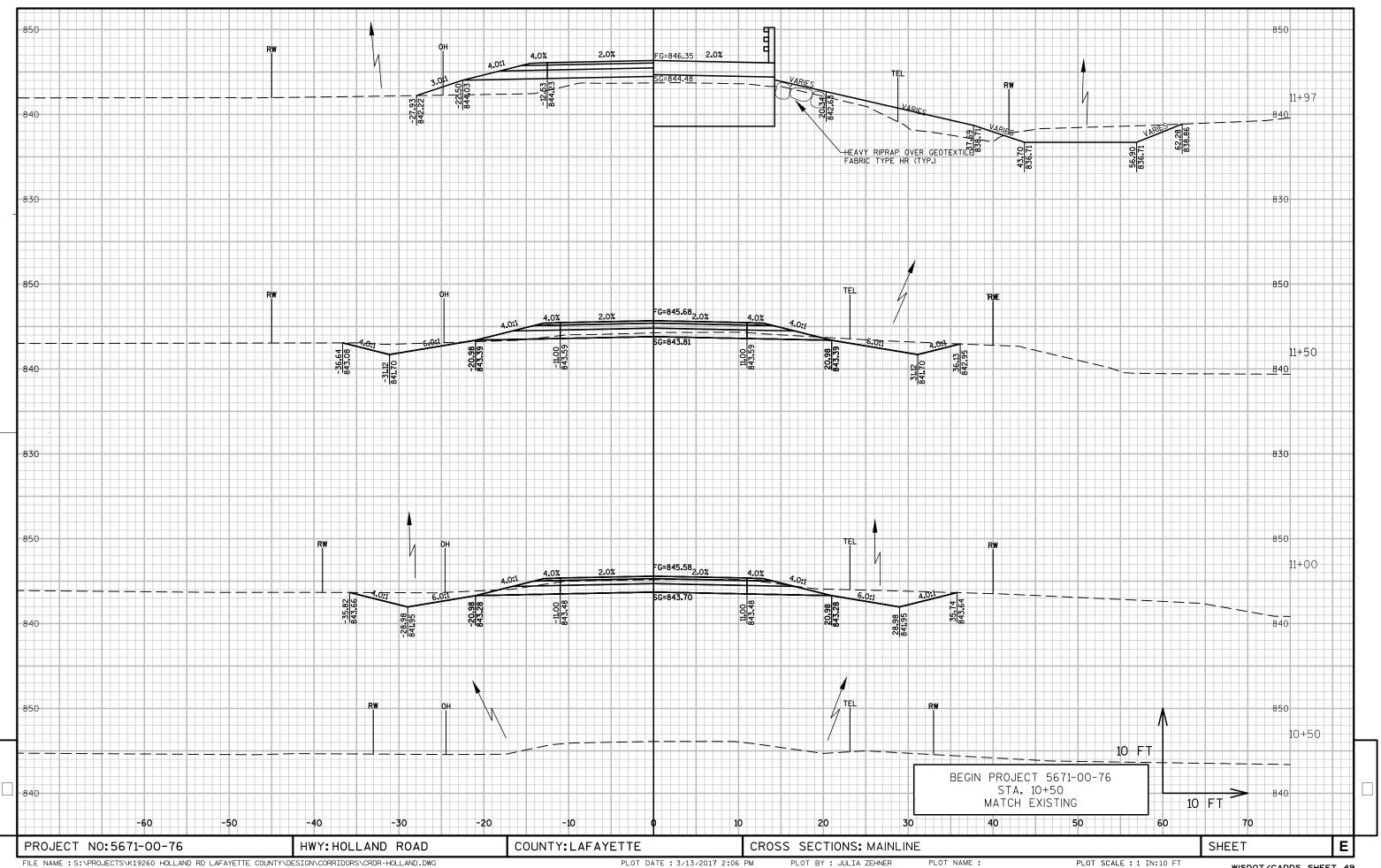
EXPANDED ROCK FACTOR = 1.1

FILL 25%: (UNEXPANDED FILL - (ROCK * ROCK FACTOR))*1.25 (CUT - FILL (25%))

COUNTY: LAFAYETTE PROJECT NO: 5671-00-76 HWY: HOLLAND ROAD MISCELLANEOUS QUANTITIES

SHEET

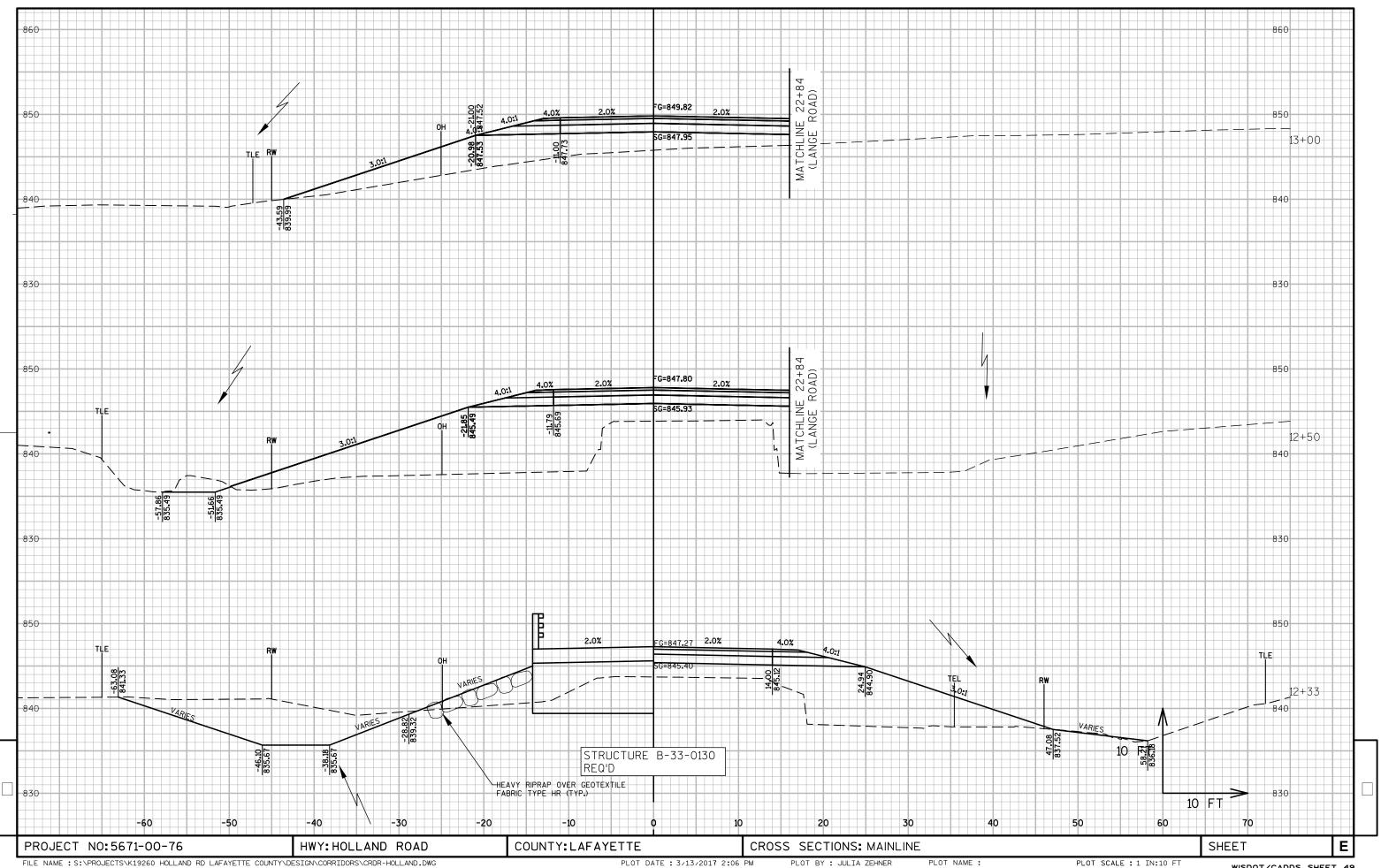
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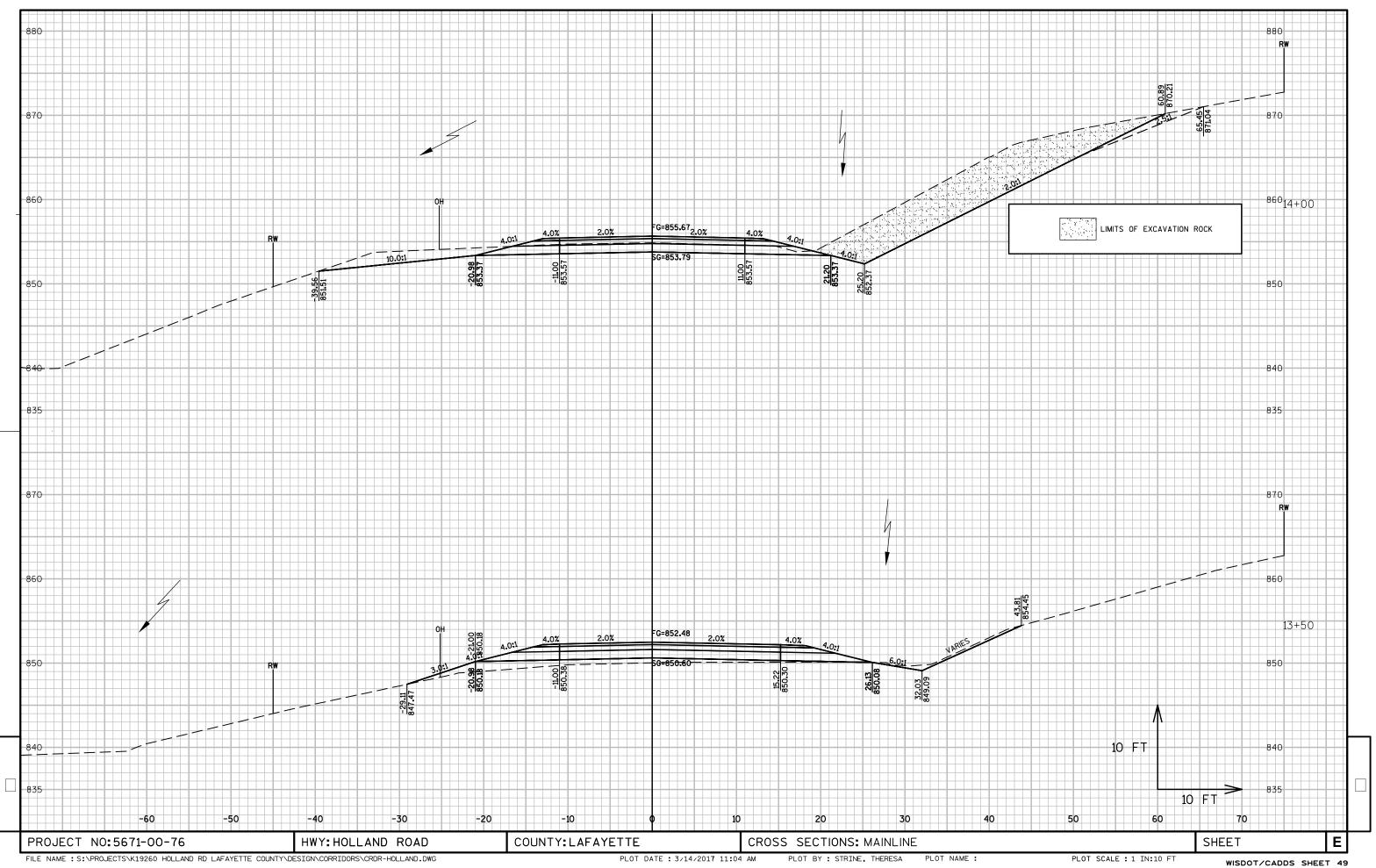
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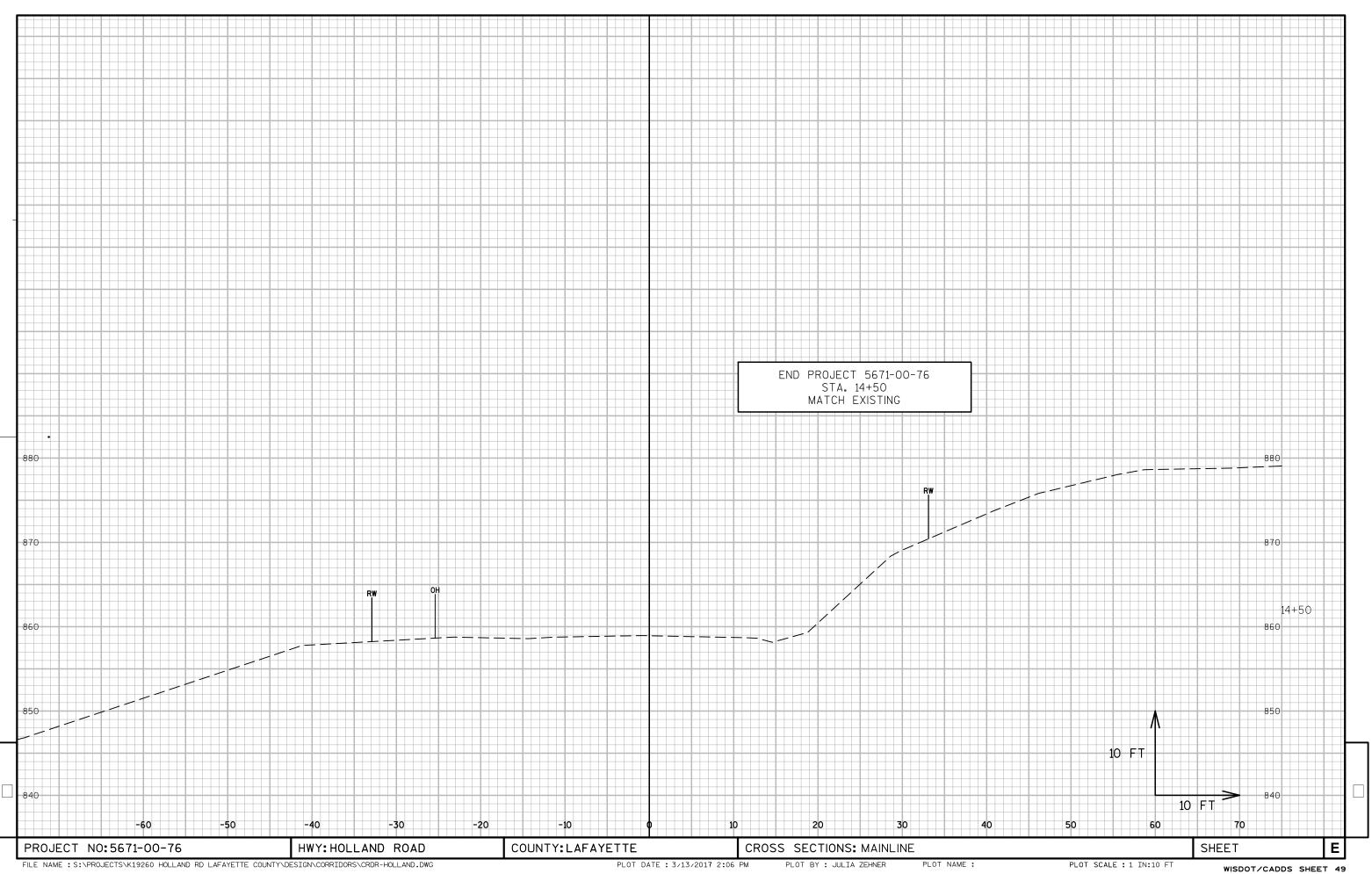
WISDOT/CADDS SHEET 49

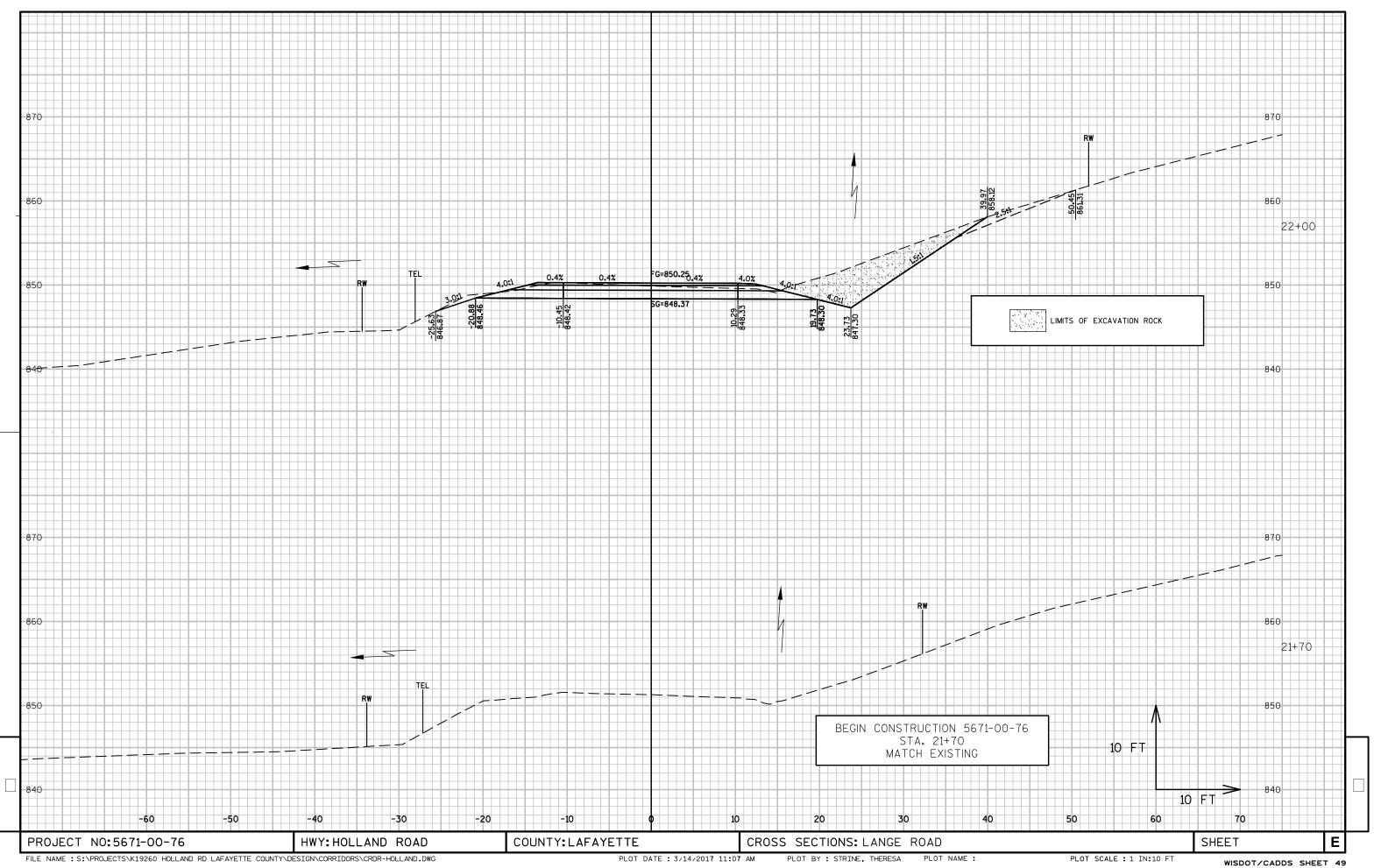


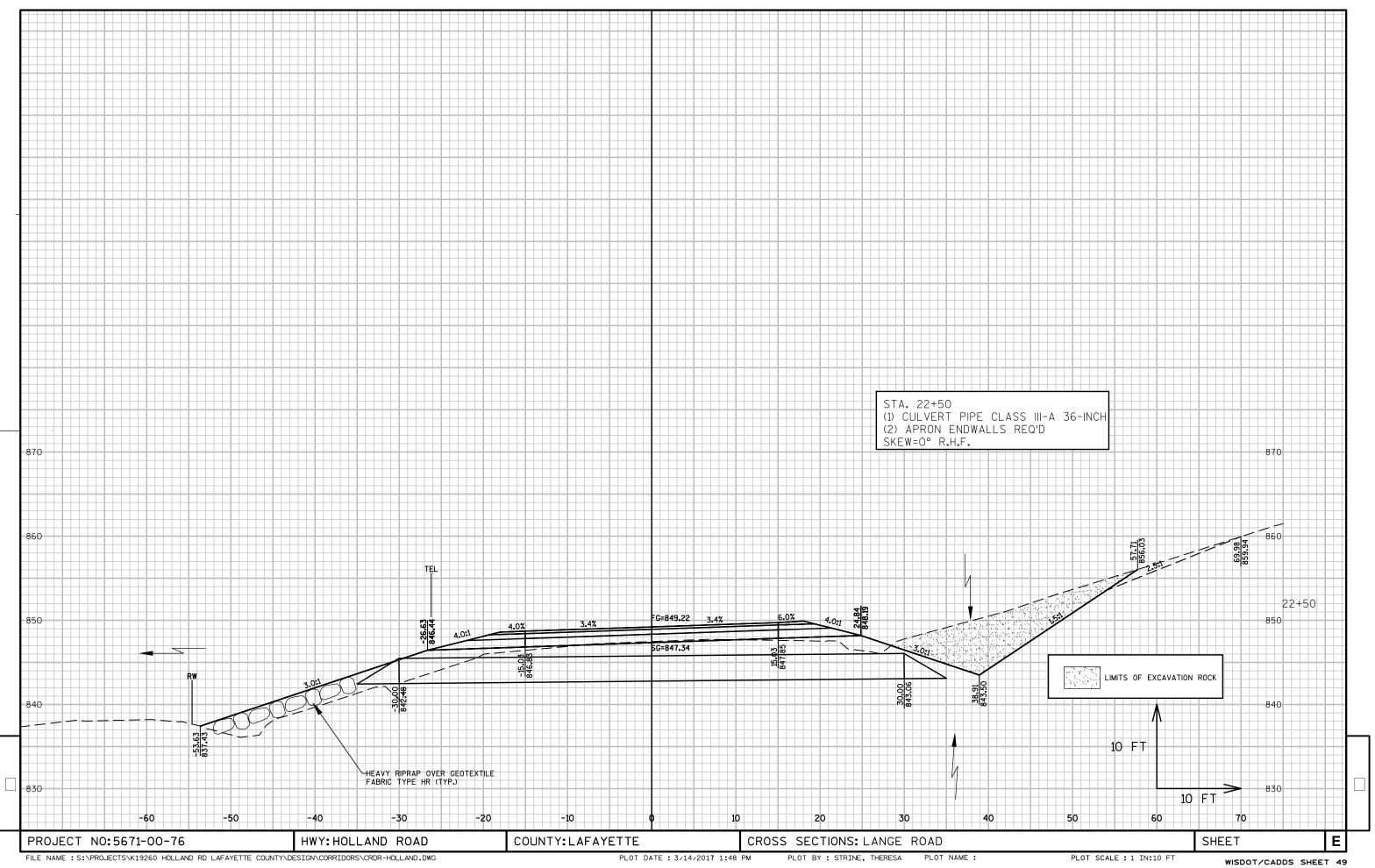
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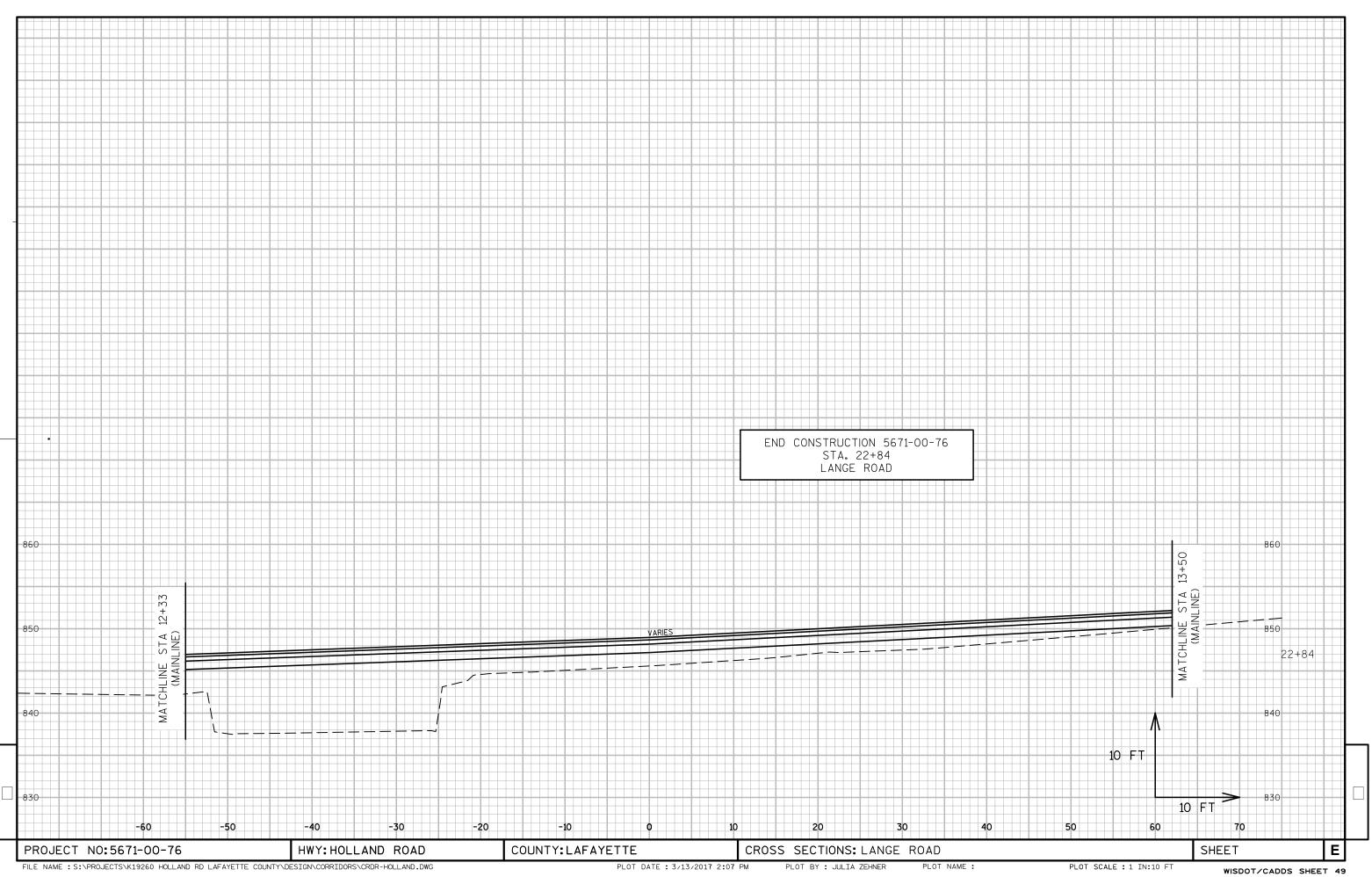
WISDOT/CADDS SHEET 49

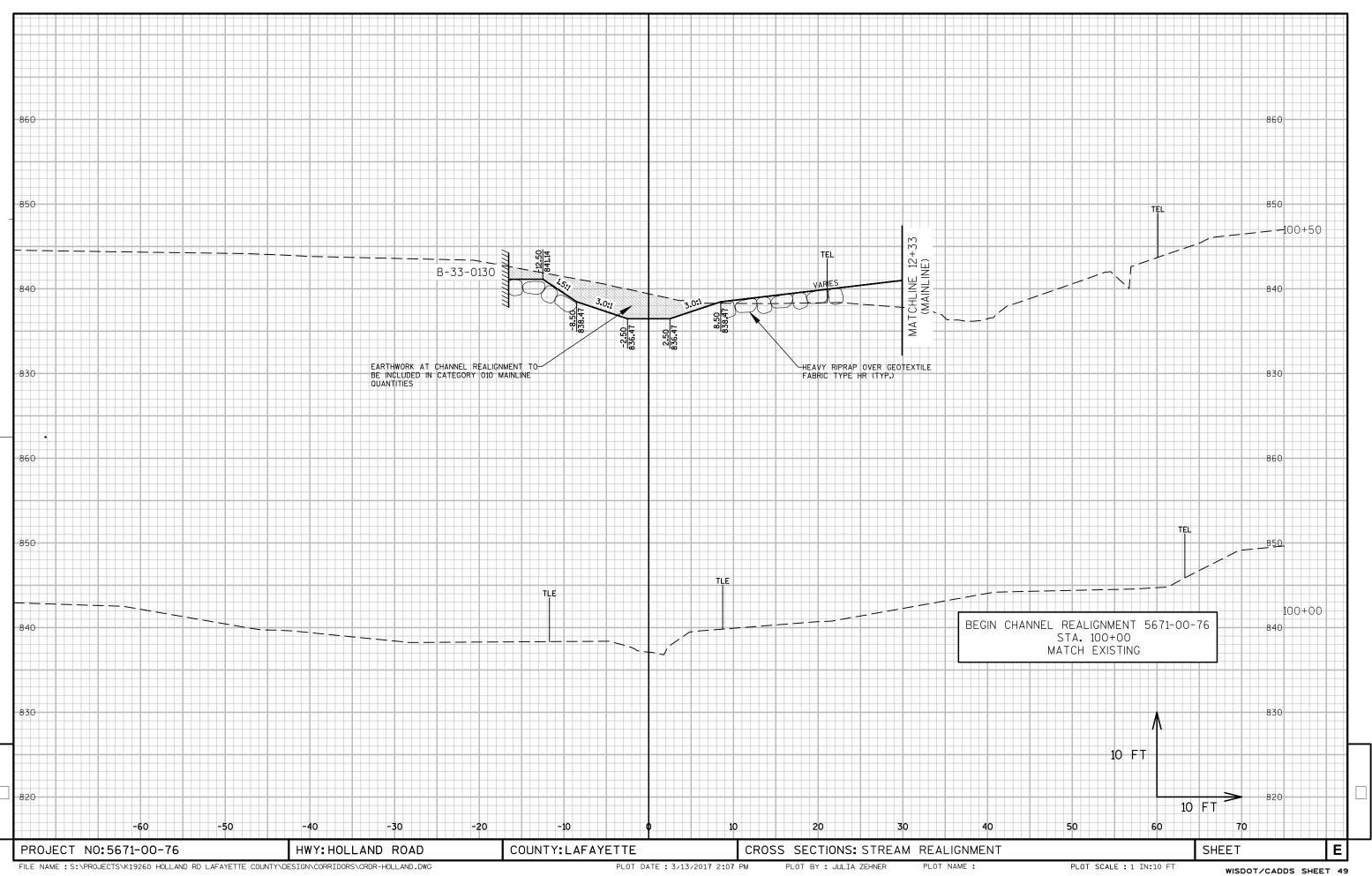


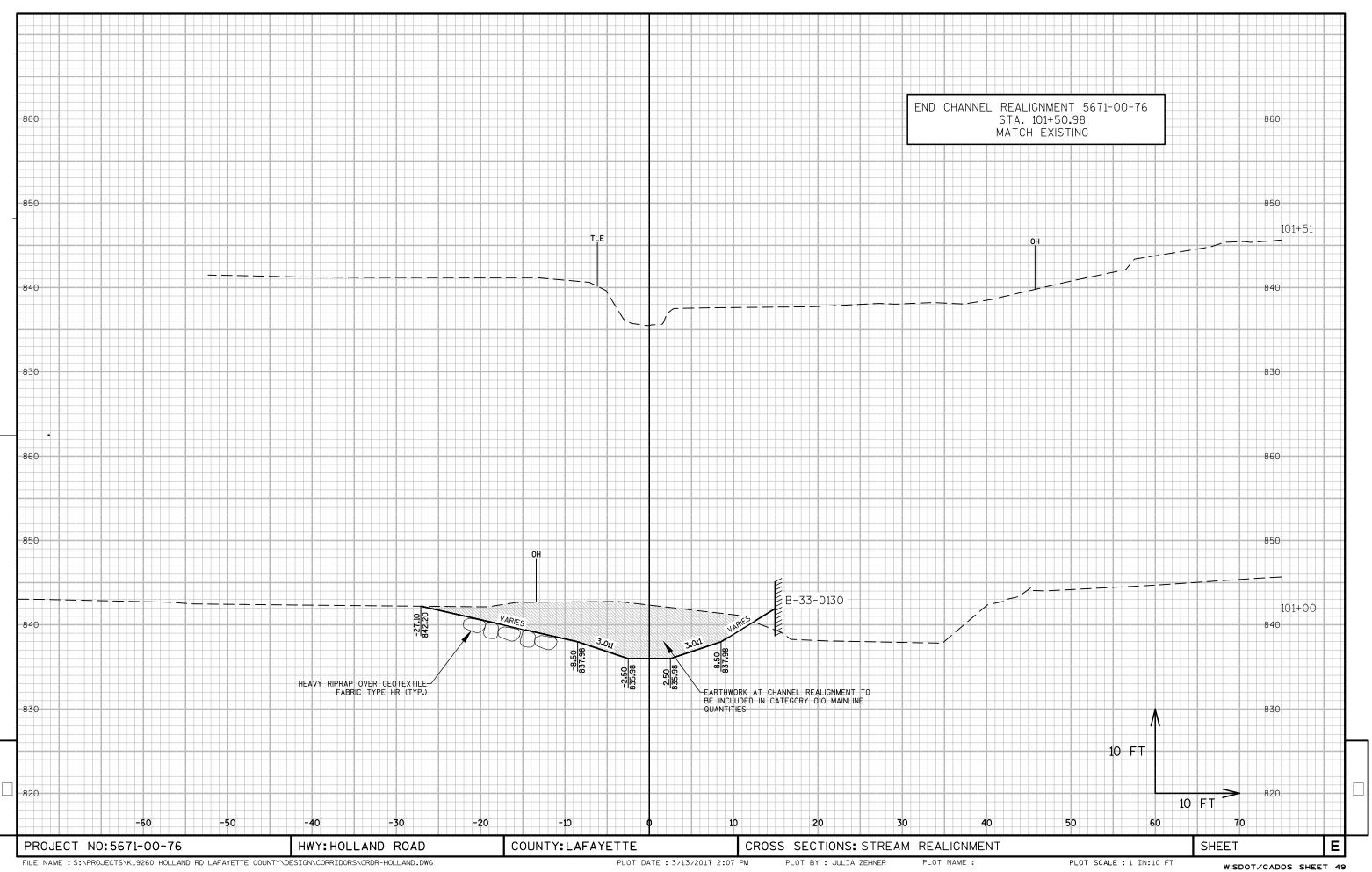












Notes



Wisconsin Department of Transportation

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