MARSH AREA

Section No. 8 EAL m

FEB 2017 ORDER OF SHEETS Section No. 1 Section No. 2 Typical Sections and Details

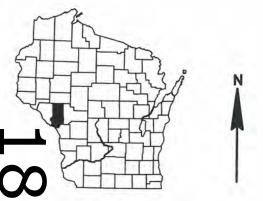
Section No. 3 Estimate of Quantities Miscellaneous Quantities Right of Way Plat Section No. 5 Plan and Profile

Section No. 6 Standard Detail Drawings Section No. 7 Sign Plates

Structure Plans Section No. 9 Computer Earthwork Data

Section No. 9 Cross Sections

TOTAL SHEETS = 50



DESIGN DESIGNATION

A.A.D.T. (2016) = 20 A.A.D.T. (2036) = 30D.H.V. (2036) D.D. = 50/50 = 7% DESIGN SPEED = 25 MPH ESALS. = N/A

CONVENTIONAL SYMBOLS

CORPORATE LIMITS PROPERTY LINE LIMITED HIGHWAY EASEMENT EXISTING RIGHT OF WAY PROPOSED OR NEW R/W LINE SLOPE INTERCEPT REFERENCE LINE

EXISTING CULVERT PROPOSED CULVERT (Box or Pipe) COMBUSTIBLE FLUIDS

WOODED OR SHRUB AREA

(To be noted as such) SPECIAL DITCH GRADE ELEVATION CULVERT (Profile View) UTILITIES ELECTRIC FIBER OPTIC GAS SANITARY SEWER STORM SEWER TELEPHONE

PROFILE

GRADE LINE

ORIGINAL GROUND

MARSH OR ROCK PROFILE

WATER UTILITY PEDESTAL POWER POLE TELEPHONE POLE

T-21-N

T-20-N

STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION

PLAN OF PROPOSED IMPROVEMENT

T ETTRICK, LEQUE LANE

N FORK BEAVER CREEK B-61-0226

LOCAL STREET TREMPEALEAU COUNTY

STATE PROJECT NUMBER 7281-00-70

STA. 11+50.00 Y = 383,937.829 X = 883,361,762 STRUCTURE B-61-226 STA. 9+95.00 BEGIN PROJECT 7281-00-70 STA. 8+50.00 Y = 383,637.863 X = 883,366.357

Beach Corner **ETTRICK** 53 Ettrick

TOTAL NET LENGTH OF CENTERLINE = 0.057 MI

1.0 MI

LAYOUT

R-7-W

R-8-W

HORIZONTAL POSITIONS SHOWN ON THIS PLAN ARE WISCONSIN COUNTY COORDINATES, TREMPEALEAU COUNTY, NADB3 (2011), IN U.S. SURVEY FEET. VALUES ARE GRID COORDINATES, GRID BEARINGS, AND GRID DISTANCES. GRID DISTANCES MAY BE USED AS GROUND DISTANCES.

PLOT NAME :

FEDERAL PROJECT STATE PROJECT PROJECT CONTRACT 7281-00-70 WISC 2017032

END PROJECT 7281-00-70

ACCEPTED FOR

ACCEPTED FOR

ORIGINAL PLANS PREPARED BY

Mead Hunt



STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION

MEAD & HUNT MEAD & HUNT Designer

Management

KNIGHT E/A. INC.

ELEVATIONS SHOWN ON THE PLANS ARE REFERENCED TO THE NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD88).

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

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

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

BEARINGS SHOWN ON THE PLANS ARE GRID BEARING TO NEAREST SECOND.

THE VERTICAL SAWCUT SHALL BE MADE THROUGH THE EXISTING PAVEMENT AT REMOVAL LIMITS.

4-INCH ASPHALTIC SURFACE SHALL BE CONSTRUCTED WITH A 1 3/4-INCH UPPER LAYER AND A 2 1/4-INCH LOWER LAYER.

SILT FENCE IS TO BE PLACED AS SHOWN ON THE PLANS OR AS DIRECTED BY THE ENGINEER, AND IN PLACE PRIOR TO BRIDGE REMOVAL. SILT FENCE IN WETLAND AREAS SHALL BE PLACED AT THE SLOPE INTERCEPT TO PREVENT DISTURBANCE OF WETLANDS.

SHRINKAGE IS ESTIMATED AT 25%.

THE LOCATION 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.

TEMPORARY STORAGE OF ANY EXCAVATED MATERIALS WILL NOT BE PERMITTED IN THE WETLANDS.

WETLANDS ARE PRESENT WITHIN THE PROJECT LIMITS. DO NOT OPERATE EQUIPMENT OUTSIDE THE SLOPE INTERCEPTS.

DISTURBED AREA WITHIN THE RIGHT-OF-WAY, EXCEPT THE AREAS WITHIN THE FINISHED SHOULDER POINTS, ARE TO BE 4-INCH SALVAGED TOPSOIL, FERTILIZED, SEEDED AND MULCH.

UPON REMOVAL OF THE TEMPORARY STRUCTURE, APPLY SEEDING MIXTURE NO. 60 TO AFFECTED WETLAND AREAS.

STANDARD ABBREVIATIONS

AVERAGE DAILY TRAFFIC NUMBER PΕ AGG AGGREGATE PRIVATE ENTRANCE POINT OF INTERSECTION **ASPH** ASPHALTIC ВМ BENCH MARK PL PROPERTY LINE BOC BACK OF CURB PP POWER POLE C&G CURB AND GUTTER QTY QUANTITY CE COMMERCIAL ENTRANCE RHF RIGHT-HAND FORWARD CL CENTERLINE RT COR CORNER R/L REFERENCE LINE HUNDREDWEIGHT CWT R/W RIGHT-OF-WAY SF CY SQUARE FOOT CUBIC YARD DHV DESIGN HOURLY VOLUME SHLDR SHOULDER DWY DRIVEWAY SS STORM SEWER EL **ELEVATION** STA STATION EΧ EXISTING SY SQUARE YARD EXC **EXCAVATION** TRUCKS (PERCENT OF) FT TEL TELEPHONE FOOT TEMPORARY LIMITED EASEMENT FTG FOOTING TLE HYD HYDRANT TYP TYPICAL INV INVERT UNDERGROUND CABLE LB VAR VARIABLE POUND LF LINEAR FOOT VC VERTICAL CURVE LHF LEFT-HAND FORWARD VPC VERTICAL POINT OF CURVE LUMP SUM LS VERTICAL POINT OF INTERSECTION VPI LT VERTICAL POINT OF TANGENCY LEFT Mgal MEGAGALLON

<u>DNR</u>

WISCONSIN DEPARTMENT OF NATURAL RESOURSES 3550 MORMON COULEE ROAD LA CROSSE, WI 54601 ATTN: KAREN KALVELAGE PHONE: (608) 785-9115 EMAIL: KAREN.KALVELAGE@WISCONSIN.GOV

DESIGN CONSULTANT



MEAD & HUNT, INC. 750 NORTH THIRD STREET LA CROSSE, WI 54601 ATTN: JAY P. WHEATON, P.E. PHONE: (608) 784-6040 MOBILE: (608) 386-0212 EMAIL: JAY.WHEATON@MEADHUNT.COM

ORDER OF SECTION 2 SHEETS

TYPICAL SECTIONS

UTILITIES

** RIVERLAND ENERGY 625 WEST MAIN STREET P.O. BOX 277 ARCADIA, WI 54612-0277 ATTN: ROB SOSALLA PHONE: (608) 863-2377 EMAIL: RSOSALLA@RIVERLANDENERGY.COM

** CENTURYLINK 333 NORTH FRONT STREET LA CROSSE, WI 54601 ATTN: TOM MURRAY PHONE: (608) 780-0895 EMAIL: TOM.I.MURRAY@CENTURYLINK.COM

TREMPEALEAU COUNTY

TREMPEALEAU COUNTY HIGHWAY COMMISSIONER N36258 CTH QQ P.O. BOX 97 WHITEHALL, WI 54773 ATTN: DAVE LYGA PHONE: (715) 538-4799 EMAIL: TCHWY@TRIWEST.NET

** THESE ARE MEMBERS OF DIGGERS HOTLINE



PROJECT NO: 7281-00-70

MAINLINE

HWY: LEQUE LANE

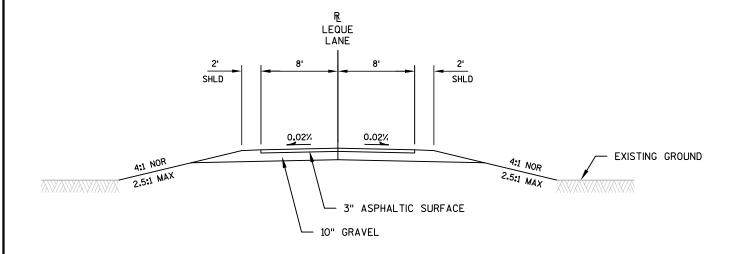
COUNTY: TREMPEALEAU

GENERAL NOTES

PLOT BY : JEFF BREU

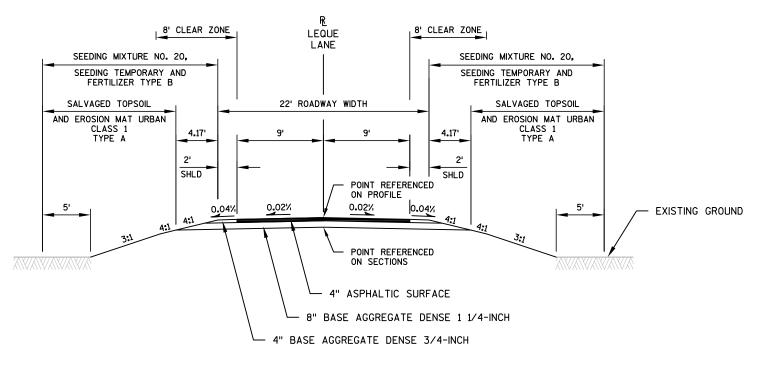
SHEET

Ε



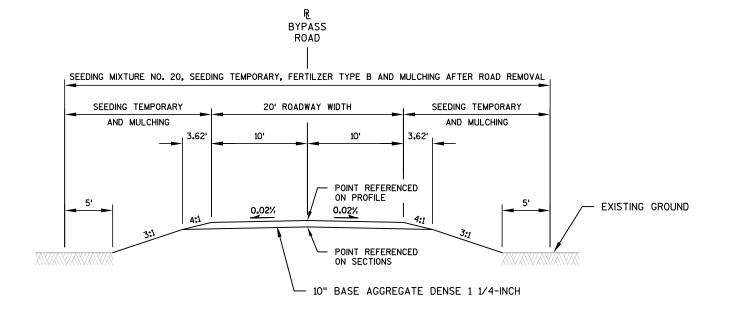
EXISTING TYPICAL SECTION

STA 8+50.00 TO STA 9+76.00 STA 10+22.50 TO STA 11+50.00



PROPOSED TYPICAL SECTION

STA 8+50.00 TO STA 9+63.56 STA 10+26.44 TO STA 11+50.00



PROPOSED TYPICAL SECTION TEMPORARY BYPASS ROAD

STA 17+92.52'B' TO STA 21+98.44'B'

PROJECT NO:7281-00-70 HWY:LEQUE LANE COUNTY:TREMPEALEAU TYPICAL SECTIONS SHEET **E**

PLOT BY: JEFF BREU

Estimate Of Quantities By Plan Sets

Page 1

					7281-00-70
Line	Item	Item Description	Unit	Total	Qty
0010	201.0105	Clearing	STA	3.000	3.000
0020	201.0205	Grubbing	STA	3.000	3.000
0030	203.0600.S	Removing Old Structure Over Waterway With Minimal Debris (station) 01. 9+99	LS	1.000	1.000
0050	205.0100	Excavation Common	CY	1,314.000	1,314.000
0060	206.1000	Excavation for Structures Bridges (structure) 01. B-61-226	LS	1.000	1.000
0800	208.0100	Borrow	CY	1,272.000	1,272.000
0090	210.1500	Backfill Structure Type A	TON	180.000	180.000
0100	213.0100	Finishing Roadway (project) 01. 7281-00-70	EACH	1.000	1.000
0120	305.0110	Base Aggregate Dense 3/4-Inch	TON	38.000	38.000
0130	305.0120	Base Aggregate Dense 1 1/4-Inch	TON	745.000	745.000
0140	415.0080	Concrete Pavement 8-Inch	SY	22.000	22.000
0150	415.0410	Concrete Pavement Approach Slab	SY	82.000	82.000
0160	455.0605	Tack Coat	GAL	32.000	32.000
0170	465.0105	Asphaltic Surface	TON	100.000	100.000
0180	502.0100	Concrete Masonry Bridges	CY	179.000	179.000
0190	502.3200	Protective Surface Treatment	SY	238.000	238.000
0200	505.0400	Bar Steel Reinforcement HS Structures	LB	5,130.000	5,130.000
0210	505.0600	Bar Steel Reinforcement HS Coated Structures	LB	23,730.000	23,730.000
0220	513.4061	Railing Tubular Type M (structure) 01. B-61-226	LF	171.000	171.000
0240	516.0500	Rubberized Membrane Waterproofing	SY	18.000	18.000
0250	526.0100	Temporary Structure (station) 01. 20+00	LS	1.000	1.000
0270	550.2104	Piling CIP Concrete 10 3/4 X 0.25-Inch	LF	1,195.000	1,195.000
0280	606.0300	Riprap Heavy	CY	210.000	210.000
0290	612.0406	Pipe Underdrain Wrapped 6-Inch	LF	120.000	120.000
0300	619.1000	Mobilization	EACH	0.500	0.500
0310	625.0500	Salvaged Topsoil	SY	1,220.000	1,220.000
0310	627.0200	Mulching	SY	2,055.000	2,055.000
0320	628.1504	Silt Fence	LF	800.000	800.000
0330	628.1520	Silt Fence Maintenance	LF	1,600.000	1,600.000
0340	628.1905	Mobilizations Erosion Control	EACH	4.000	4.000
0360	628.1910	Mobilizations Emergency Erosion Control	EACH	2.000	2.000
		· .			
0370	628.2006	Erosion Mat Urban Class I Type A	SY	1,220.000	1,220.000
0380	628.6005	Turbidity Barriers	SY	425.000	425.000
0390	628.7504	Temporary Ditch Checks	LF	20.000	20.000
0400	629.0210	Fertilizer Type B	CWT	2.000	2.000
0410	630.0120	Seeding Mixture No. 20	LB	85.000	85.000
0430	630.0200	Seeding Temporary	LB	69.000	69.000
0440	633.1100	Delineators Temporary	EACH	30.000	30.000

Estimate Of Quantities By Plan Sets

Page 2

7281-00-70			
Qty			

Line	Item	Item Description	Unit	Total	Qty
0450	634.0614	Posts Wood 4x6-Inch X 14-FT	EACH	4.000	4.000
0460	637.2230	Signs Type II Reflective F	SF	12.000	12.000
0470	638.2602	Removing Signs Type II	EACH	4.000	4.000
0480	638.3000	Removing Small Sign Supports	EACH	4.000	4.000
0490	642.5001	Field Office Type B	EACH	0.500	0.500
0500	643.0100	Traffic Control (project) 01. 7281-00-70	EACH	1.000	1.000
0520	643.0300	Traffic Control Drums	DAY	2,100.000	2,100.000
0530	643.0420	Traffic Control Barricades Type III	DAY	280.000	280.000
0540	643.0705	Traffic Control Warning Lights Type A	DAY	560.000	560.000
0550	643.0715	Traffic Control Warning Lights Type C	DAY	1,400.000	1,400.000
0560	643.0900	Traffic Control Signs	DAY	1,820.000	1,820.000
0570	645.0120	Geotextile Type HR	SY	430.000	430.000
0580	650.4500	Construction Staking Subgrade	LF	595.000	595.000
0590	650.5000	Construction Staking Base	LF	595.000	595.000
0600	650.6500	Construction Staking Structure Layout (structure) 01. B-61-226	LS	1.000	1.000
0620	650.9910	Construction Staking Supplemental Control (project) 01. 7281-00-70	LS	1.000	1.000
0640	650.9920	Construction Staking Slope Stakes	LF	595.000	595.000
0650	690.0150	Sawing Asphalt	LF	32.000	32.000
0660	715.0502	Incentive Strength Concrete Structures	DOL	1,074.000	1,074.000
0670	ASP.1T0A	On-the-Job Training Apprentice at \$5.00/HR	HRS	1,200.000	1,200.000
0680	ASP.1T0G	On-the-Job Training Graduate at \$5.00/HR	HRS	300.000	300.000

415.0410

EARTHWORK SUMMARY												
FROM/TO STATION	LOCATION	205.0100 COMMON EXCAVATION CUT (1)	SALVAGED/ UNUSABLE PAVEMENT MATERIAL	AVAILABLE MATERIAL (2)	UNEXPANDED FILL	EXPANDED FILL (FACTOR 1.25)	MASS ORDINATE +/- (3)	WASTE	208.0100 BORROW			
17+92.52'B' - 21+98.44'B'	TEMPORARY BYPASS ROAD (CONSTRUCT)	3	0	3	1021	1276	-1272	-	1,272			
8+50 - 11+50	M/L	208	31	177	103	129	48	48	-			
17+92.52'B' - 21+98.44'B'	TEMPORARY BYPASS ROAD (REMOVE)	1,103	0	1,103	0	0	-1103	1,103	-			
	1,314 TOTAL 1,151 1,272											

- SALVAGED/UNUSABLE PAVEMENT MATERIAL IS INCLUDED
- AVAILABLE MATERIAL = CUT SALVAGED/UNUSABLE PAVEMENT MATERIAL
- THE MASS ORDINATE + OR QUANTITY CALCULATED. PLUS QUANTITY INDICATES AS EXCESS OF MATERIAL. MINUS INDICATES A SHORTAGE OF MATERIAL.

CLEARING & GRUB	BING
----------------------------	------

				201.0105	201.0205
				CLEARING	GRUBBING
STATION	TO	STATION	LOCATION	STA	STA
9+00	-	12+00	M/L	3	3
			TOTAL	3	3

DACE ACCRECATE DENCE

			BASE AGGREGATE DENS	<u>iL</u>	
				305.0110	305.0120
				BASE	BASE
				AGGREGATE	AGGREGATE
				DENSE	DENSE
				3/4 INCH	1-1/4 INCH
STATION	TO	STATION	LOCATION	TON	TON
8+50	-	9+63.56	M/L	18	160
10+26.44	-	11+50	M/L	20	175
17+92.52'B'	-	21+98.44"B'	TEMPORARY BYPASS ROAD	-	410
		<u> </u>	TOTAL	38	745

CONCRETE PAVEMENT

			TOTAL	22	82
10+26.44	-	10+46.64	M/L	11	41
9+43.36	-	9+63.56	M/L	11	41
STATION	TO	STATION	LOCATION	SY	SY
				8-INCH	SLAB
				PAVEMENT	APPROACH
				CONCRETE	PAVEMENT
				415.0080	CONCRETE

ASPHALT SUMMARY

			TOTAL	32	100
10+36.25	-	11+50	M/L	17	53
8+50	-	9+53.75	M/L	15	47
STATION	TO	STATION	LOCATION	GAL	TON
				COAT	SURFACE
				TACK	ASPHALTIC
				455.0605	465.0105

LANDSCAPING ITEMS

628.2006

TACK COAT ESTIMATED AT 0.07 GAL/SY

						020.2000				
						EROSION MAT	Γ	630.0120		
				625.0500		URBAN	629.0210	SEEDING	630.0200	
				SALVAGED	627.0200	CLASS I	FERTILIZER	MIXTURE	SEEDING	
				TOPSOIL	MULCHING	TYPE A	TYPE B	NO. 20	TEMPORARY	
STATION	TO	STATION	LOCATION	SY	SY	SY	CWT	LB	LB	REMARKS
8+50	-	9+63.56	M/L, LT & RT	340	-	340	0.3	12	7	
10+26.44	-	11+50	M/L, LT & RT	380	-	380	0.4	13	8	
17+92.52'B'	-	21+98.44'B'	TEMPORARY BYPASS ROAD	-	885	-	-	-	25	CONSTRUCT TEMPORARY BYPASS ROAD
17+92.52'B'	-	21+98.44'B'	TEMPORARY BYPASS ROAD	-	1,170	-	0.8	35	16	REMOVE TEMPORARY BYPASS ROAD
		BORROW	SITES	500	-	500	0.5	25	13	
			TOTAL	1,220	2,055	1,220	2.0	85	69	

MOBILIZATION

STATION TO STATION

PROJECT

PROJECT

CATEGORY

0010 0020

	619.1000
	MOBILIZATION
LOCATION	EACH
M/L	0.125
M/L	0.375
TOTAL	0.500

SILT FENCE

			TOTAL	800	1,600
UNDIS	TRIE	BUTED	VARIOUS	160	320
10+26.44	-	11+50	M/L, LT & RT	310	620
8+50	-	9+63.56	M/L, LT & RT	330	660
STATION	TO	STATION	LOCATION	LF	LF
				SILT FENCE	MAINTENANCE
				628.1504	SILT FENCE
					628.1520

TURBIDITY BARRIERS

TOTAL	425
M/L	225
M/L	200
LOCATION	SY
	BARRIERS
	TURBIDITY
	628.6005
	M/L M/L

NOTE: ALL ITEMS ARE CATEGORY 0010 UNLESS NOTED AS 0020.

PROJECT NO: 7281-00-70 **HWY: LEQUE LANE COUNTY: TREMPEALEAU MISCELLANEOUS QUANTITIES SHEET NO:** Ε

FILE NE: PLOT DATE : PLOT BY : _ PLOT NAME: ORIGINATOR: PLOT SCALE: ORG DATE:

	SIGNI

EROSION CONTROL SUMMARY					
			628.1910		
		628.1905	MOBILIZATIONS	628.7504	
		MOBILIZATIONS	EMERGENCY	TEMPORARY	
		EROSION	EROSION	DITCH	
		CONTROL	CONTROL	CHECKS	
STATION TO STATION	LOCATION	EACH	EACH	LF	
8+50 - 9+63.56	M/L, LT & RT	-	-	-	
10+26.44 - 11+50	M/L, LT & RT	-	-	-	
UNDISTRIBUTED	VARIOUS	4	2	20	
	TOTAL	4	2	20	

	TOTAL	4	12	4	4	·
10+44	M/L, RT	1	3	-	-	W5-52L
10+29	M/L, LT	1	3	-	-	W5-52R
10+31	M/L, RT	-	-	1	1	
10+20	M/L, LT	-	-	1	1	
9+81	M/L, RT	-	-	1	1	
9+68	M/L, LT	-	-	1	1	
9+61	M/L, RT	1	3	-	-	W5-52R
9+46	M/L, LT	1	3	-	-	W5-52L
STATION	LOCATION	EACH	SF	EACH	EACH	COMMENTS
		4x6-INCH x 14-FT	REFLECTIVE F	TYPE II	SUPPORTS	
		POSTS WOOD	SIGNS TYPE II	SIGNS	SMALL SIGN	
		634.0614	637.2230	REMOVING	REMOVING	
				638.2602	638.3000	

TRAFFIC CONTROL ITEMS

			111/41	IO OCITITIOE I	<u>. L.w.o</u>			
				643.0705	643.0715			
			643.0420	TRAFFIC	TRAFFIC			
		643.0300	TRAFFIC	CONTROL	CONTROL	643.0900		
	633.1100	TRAFFIC	CONTROL	WARNING	WARNING	TRAFFIC		
	DELINEATORS	CONTROL	BARRICADES	LIGHTS	LIGHTS	CONTROL		
	TEMPORARY	DRUMS	TYPE III	TYPE A	TYPE C	SIGNS		
	EACH	DAY	DAY	DAY	DAY	DAY	REMARKS	
	30	2100	280	560	1,400	1,820	70 DAYS	
TOTAL	30	2.100	280	560	1.400	1.820		

CONSTRUCTION STAKING

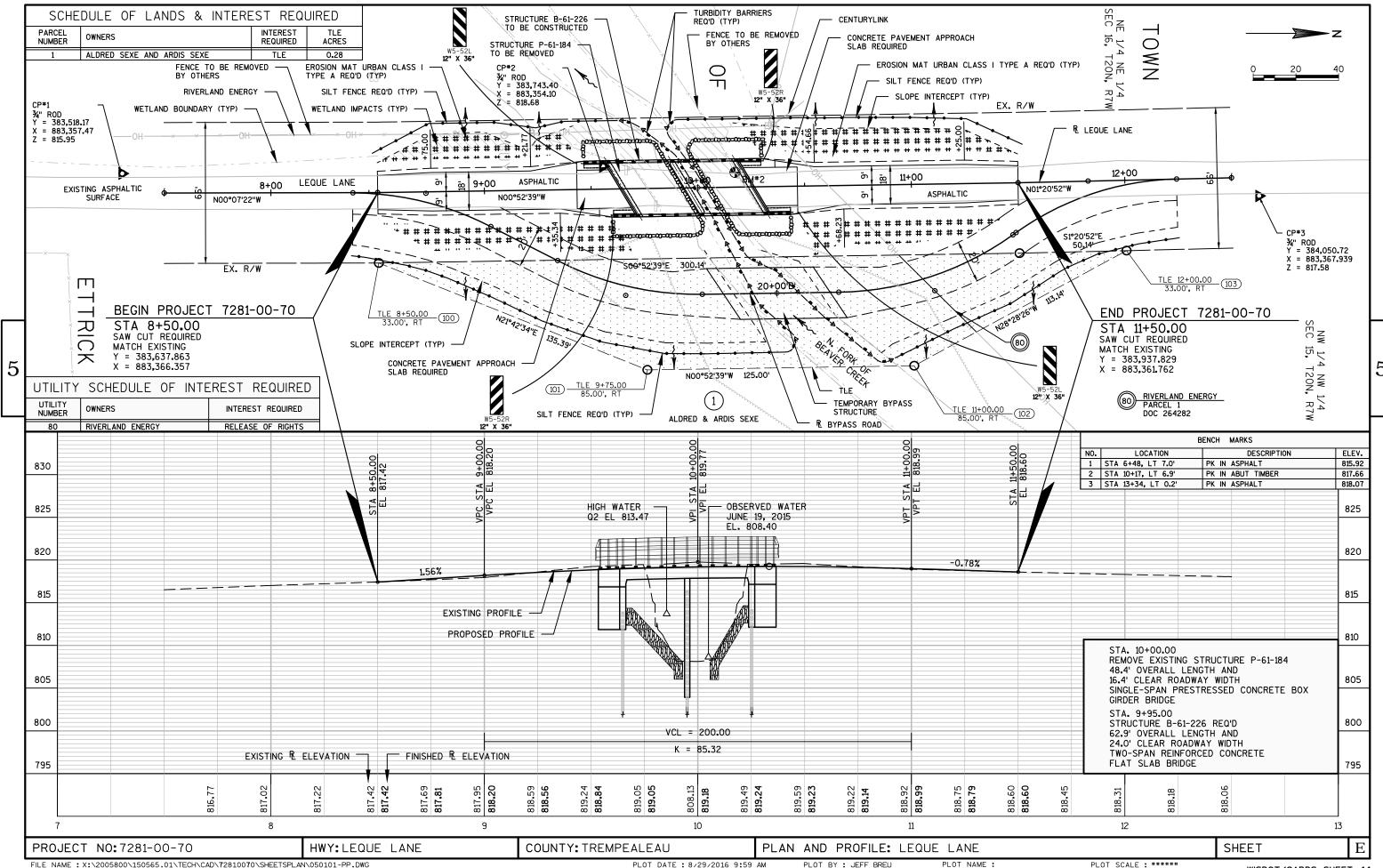
				TOTAL	595	595	1	1	595
0010	PF	ROJE	CT	M/L	-	-	-	1	-
0020		9+95	;	M/L	-	-	1	-	-
0010	20+25'B'		21+98.44'B'	TEMPORARY BYPASS ROAD	174	174	-	-	174
0010	17+92.52'B'	-	19+75'B'	TEMPORARY BYPASS ROAD	183	183	-	-	183
0010	10+26.44	-	11+50	M/L	124	124	-	-	124
0010	8+50	-	9+63.56	M/L	114	114	-	-	114
CATEGORY	STATION	TO	STATION	LOCATION	LF	LF	LS	LS	LF
					SUBGRADE	BASE	(B-61-0226)	(PROJECT)	STAKES
					STAKING	STAKING	LAYOUT	CONTROL	SLOPE
					CONSTRUCTION	CONSTRUCTION	STRUCTURE	SUPPLEMENTAL	STAKING
					650.4500	650.5000	STAKING	STAKING	CONSTRUCTION
							CONSTRUCTION	CONSTRUCTION	650.9920
							650.6500	650.9910	

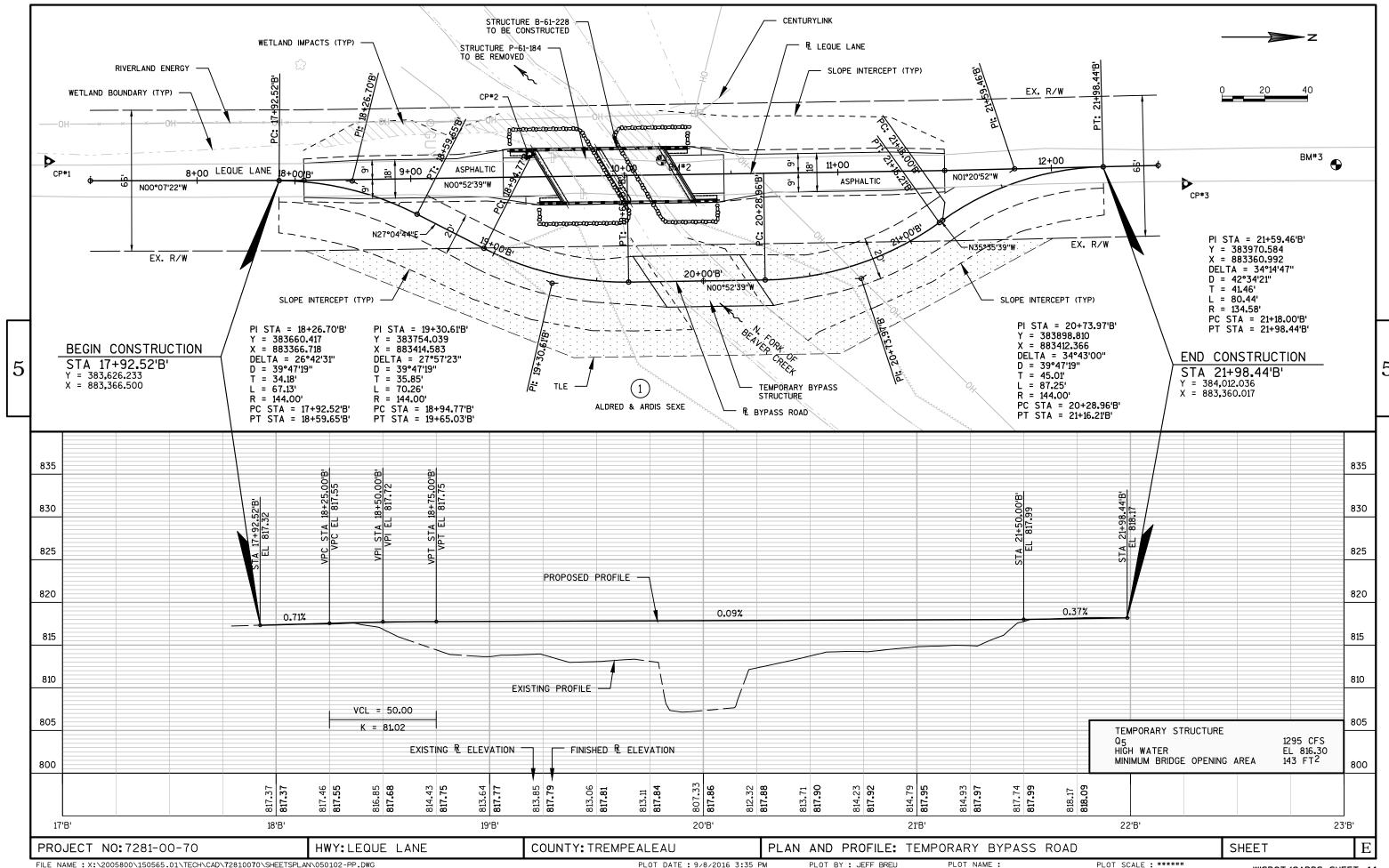
SAWING ASPHALT

	TOTAL	32
11+50	M/L	16
8+50	M/L	16
STATION	LOCATION	LF
		ASPHALT
		SAWING
		690.0150

NOTE: ALL ITEMS ARE CATEGORY 0010 UNLESS NOTED AS 0020.

	PROJECT NO: 7281-00-70	HWY: LEQUE LANE	COUNTY: TREMPEALEAU	MISCELLANEOUS QUANTITIES	SHEET NO:	Ε
--	------------------------	-----------------	---------------------	--------------------------	-----------	---





Standard Detail Drawing List

08E08-03	TYPICAL INSTALLATIONS OF EROSION BALES / TEMPORARY DITCH CHECKS
08E09-06	SILT FENCE
08E11-02	TURBI DI TY BARRI ER
13A03-06	CONCRETE PAVEMENT SHOULDERS
13B02-08A	CONCRETE PAVEMENT APPROACH SLAB
13B02-08B	STRUCTURAL APPROACH SLAB AND CONCRETE PAVEMENT APPROACH SLAB
13C18-03A	CONCRETE PAVEMENT JOINTING
13C18-03B	CONCRETE PAVEMENT STEEL REINFORCEMENT
13C18-03C	CONCRETE PAVEMENT JOINT TIES
13C18-03D	CONCRETE PAVEMENT JOINTING AT UTILITY FIXTURES
15A02-09	DELINEATOR POST, DELINEATOR REFLECTOR AND DELINEATOR BRACKET WITH REFLECTIVE SHEETIN
15C05-03	TRAFFIC CONTROL, ADVANCE WARNING SIGNS 40 M.P.H. OR LESS
15D31-03	TRAFFIC CONTROL, TEMPORARY BYPASS ROADWAY

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

Ō Ö

 ∞ ∞ Ω

Δ

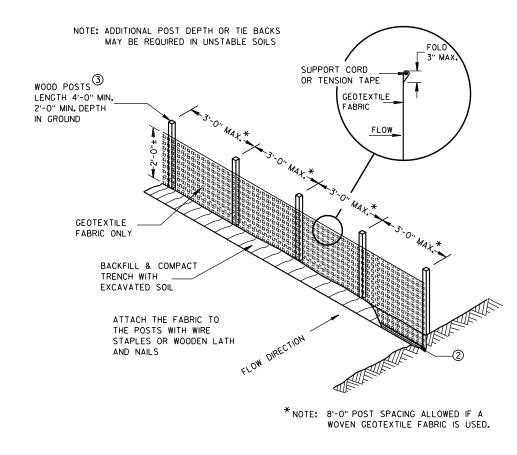
TYPICAL APPLICATION OF SILT FENCE

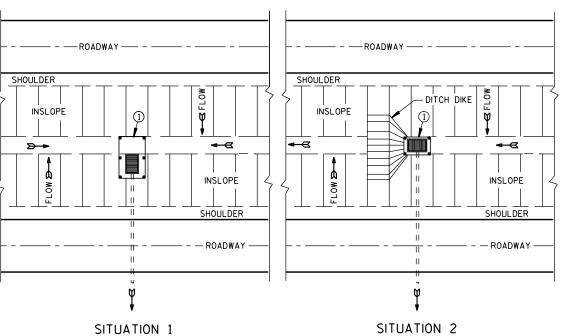
6

b

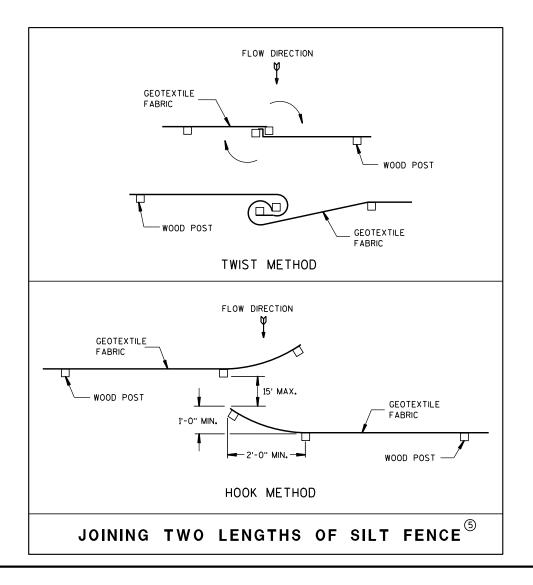
Ō

Ш





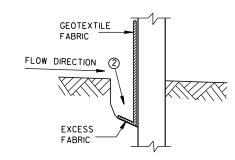
PLAN VIEW SILT FENCE AT MEDIAN SURFACE DRAINS



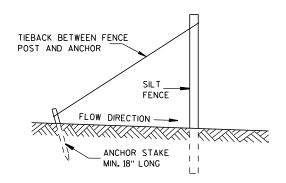
GENERAL NOTES

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

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

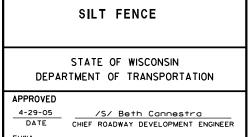


TRENCH DETAIL



SILT FENCE TIE BACK

(WHEN REQUIRED BY THE ENGINEER)



SILT FENCE

S.D.D. 8 E 9-6

6

Ū

D

GENERAL NOTES

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

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

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





SECTION C-C

TURBIDITY BARRIER DETAIL SHOWING TYPICAL PLACEMENT AT STRUCTURES

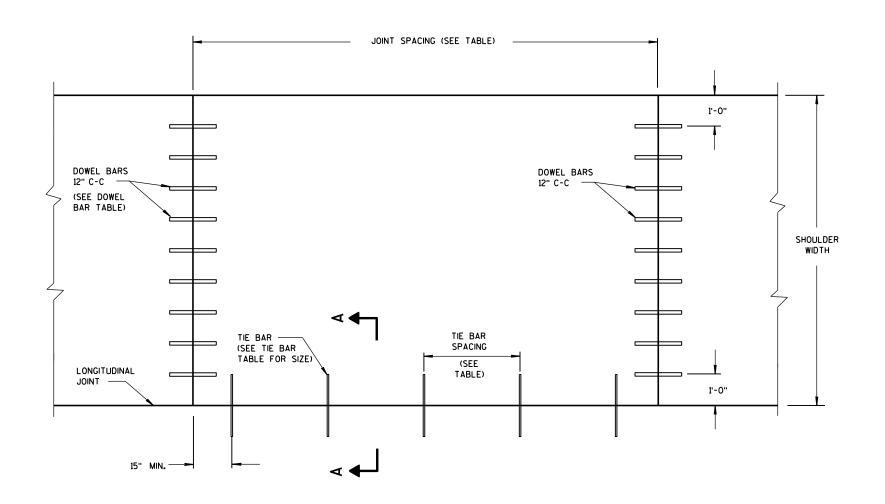
TURBIDITY BARRIER

STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION

APPROVED

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

Ω



PLAN VIEW CONCRETE PAVEMENT SHOULDER

TIE BAR TABLE

PAVEMENT DEPTH (D)	TIE BAR Size	TIE BAR LENGTH (L)	MAX. TIE BAR Spacing
< 10 1/2"	NO. 4	30"	36"
≥ 10 ½"	NO. 5	36"	36"
2 10 72	NO. 4 *	30"	24"**

* SUBSTITUTE BENT BARS AT LONGITUDINAL JOINTS WHEN EQUIPMENT LIMITATIONS DURING CONSTRUCTION WARRANT (e.g. AUXILIARY LANES OR TURN LANES)

** CONFORM TO 15" MINUMUM SPACING FROM TRANSVERSE JOINTS; SPACING BETWEEN TIE BARS WILL BE 30" AT TRANSVERSE JOINTS.

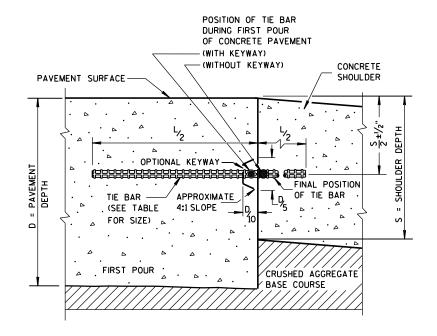
GENERAL NOTES

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.

TRANSVERSE JOINT DETAILS ARE SHOWN ELSEWHERE IN THE PLAN.

FINISH THE SHOULDER PAVEMENT CONFORMING TO SUBSECTION 415.3.8 OF THE STANDARD SPECIFICATIONS.

TIE BARS SHALL CONFORM TO SUBSECTION 505.2.4 OF THE STANDARD SPECIFICATIONS.



SECTION A-A LONGITUDINAL CONSTRUCTION JOINT

PAVEMENT DEPTH, DOWEL BAR SIZE AND JOINT SPACING TABLE

PAVEMENT DEPTH (D)	DOWEL BAR DIAMETER***	CONTRACTION JOINT SPACING
5 ½", 6", 6 ½"	NONE	12'
7", 7 ½"	1"	14'
8", 8 ½"	1 1/4"	15'
9", 9 ½"	1 1/4"	15'
10" & ABOVE	11/2"	15'

FOR DOWELED CONCRETE SHOULDERS WITH TRAPEZOIDAL CROSS SECTIONS, CHOSE THE APPROPRIATE DOWEL BAR DIAMETER BASED ON THE SMALLER PAVEMENT DEPTH (LIKELY THE OUTSIDE EDGE OF THE SHOULDER). IF USING BASKETS, USE BASKETS FOR THE AVERAGE THICKNESS OF THE CROSS SECTION.

CONCRETE	PAVEMENT	SHOULDERS

6

က

Þ

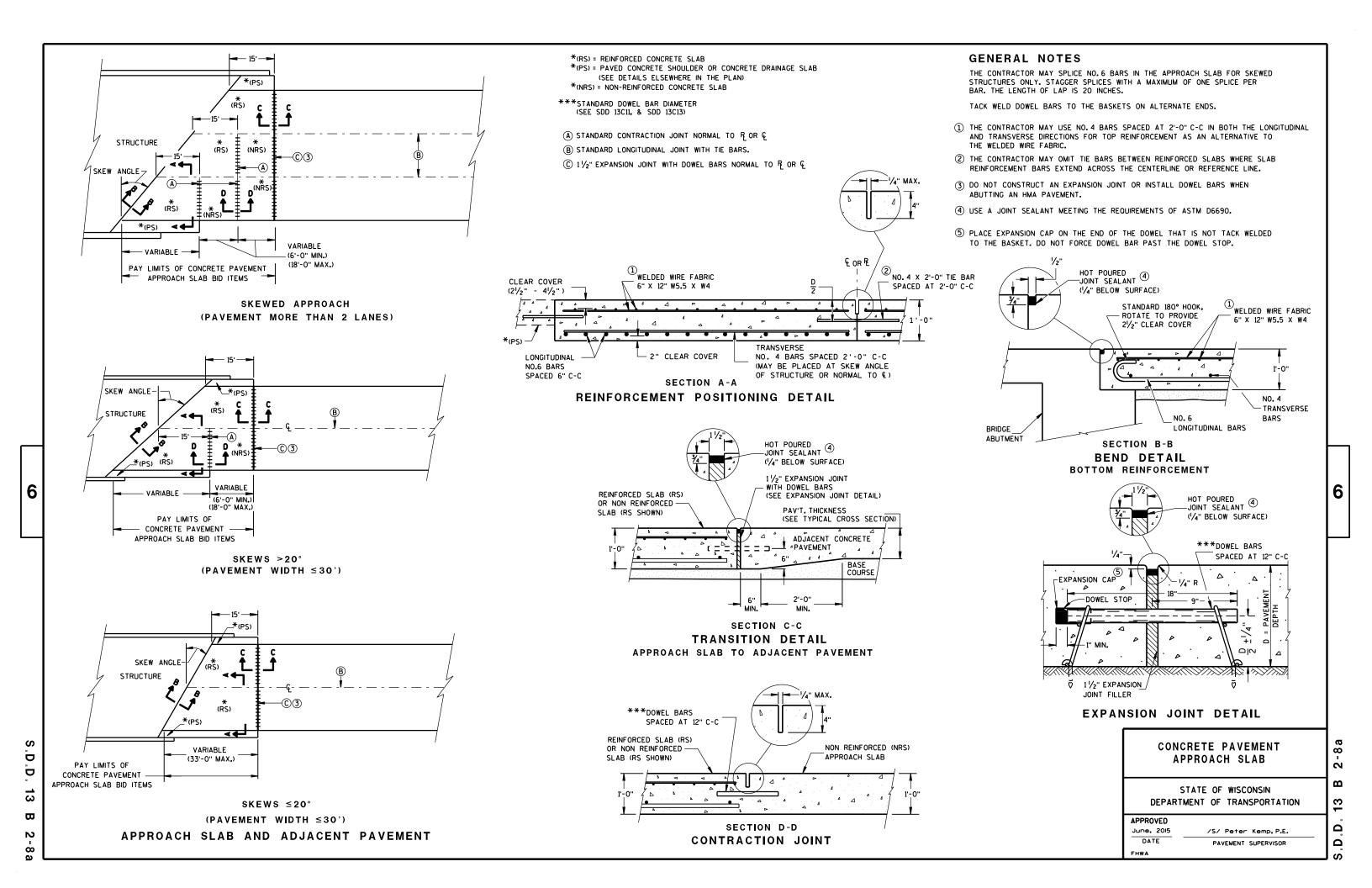
13

Ω

Ω

STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION

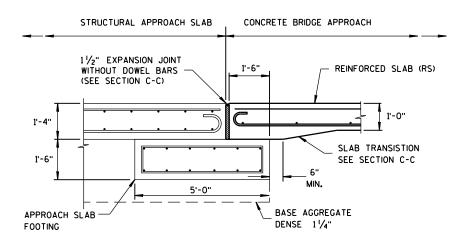
APPROVED	
June, 2015	/S/ Peter Kemp, P.E.
DATE	PAVEMENT SUPERVISOR



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

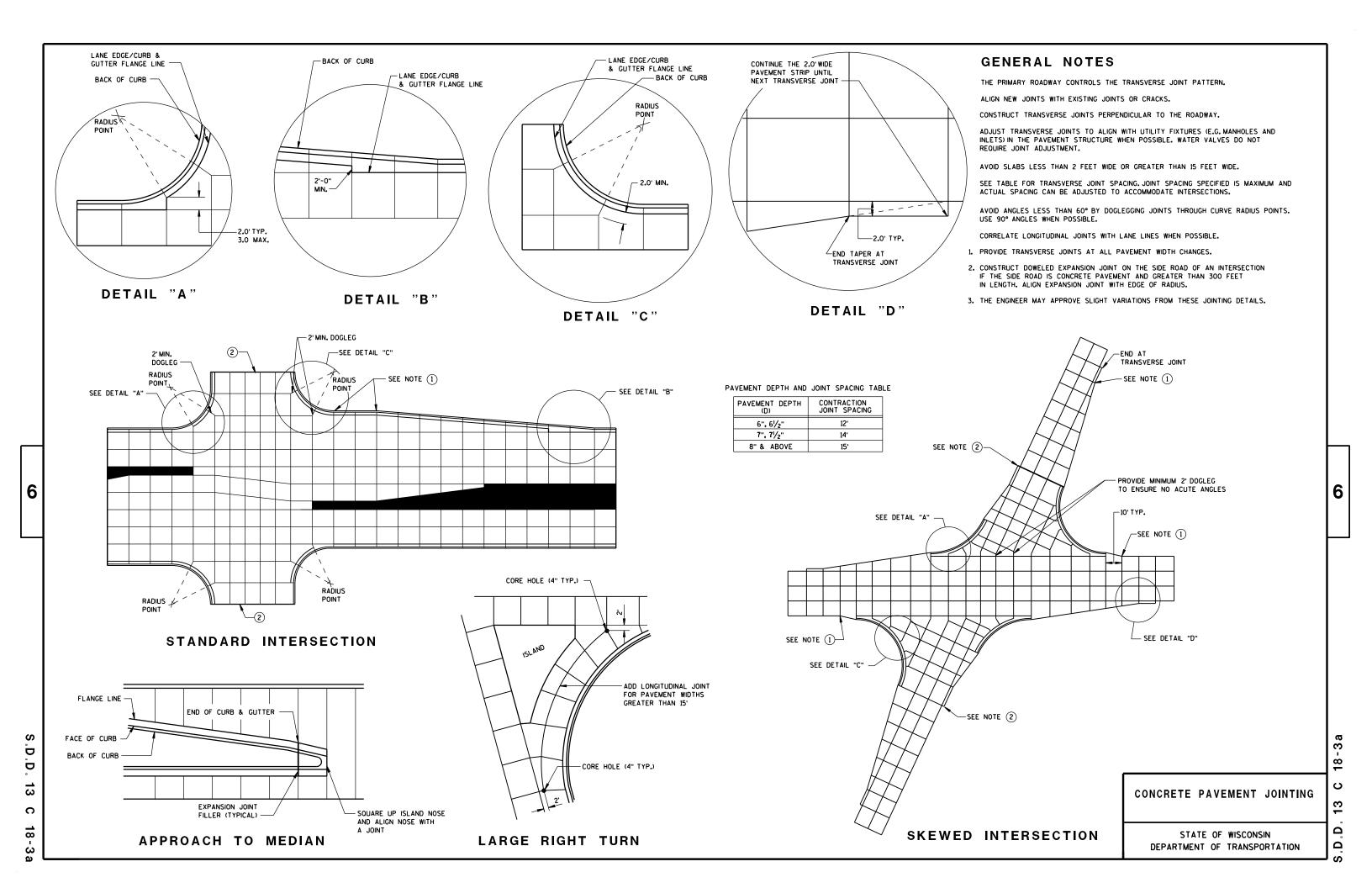
D.D. 13 B 2-8b

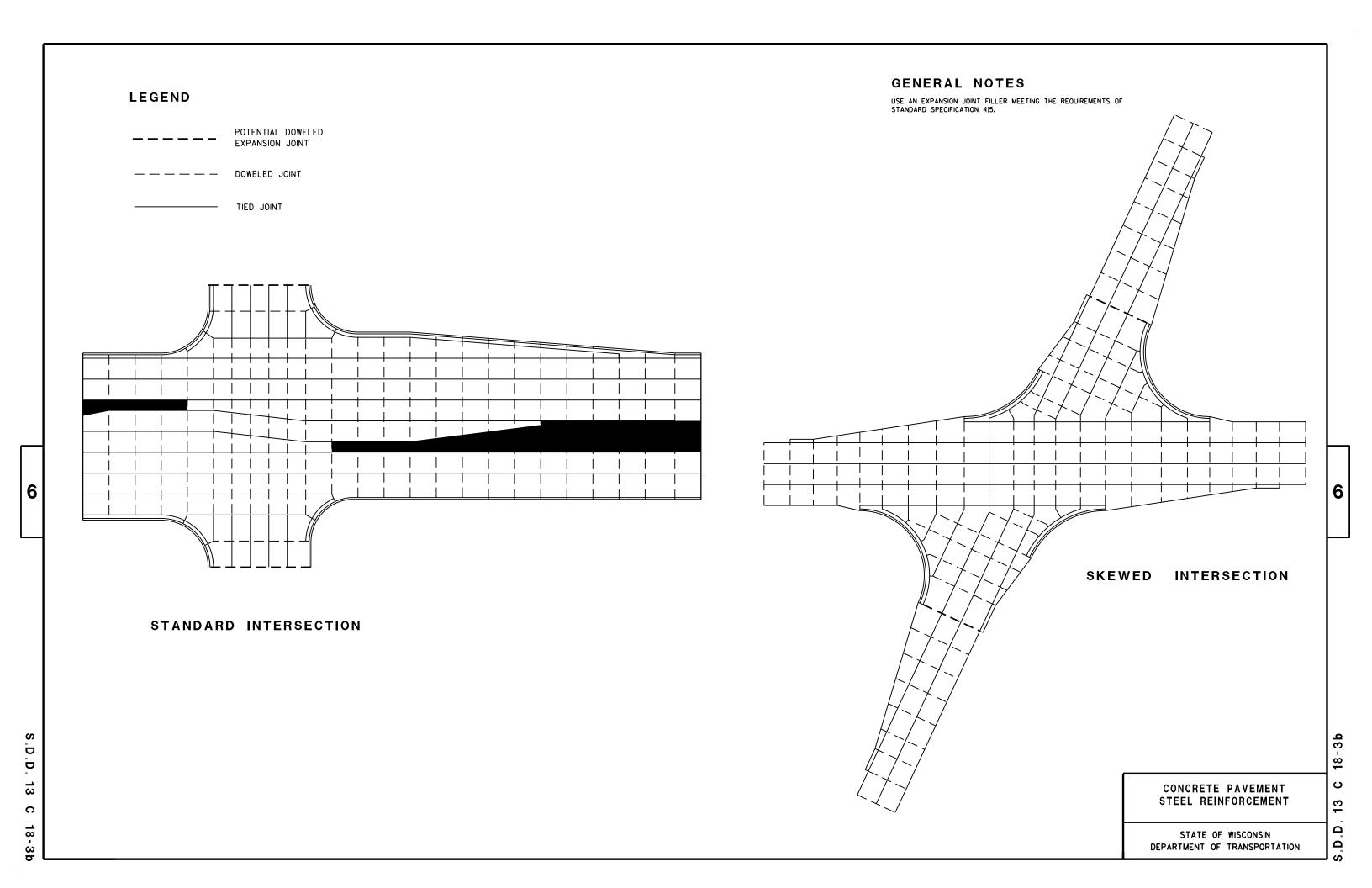
6

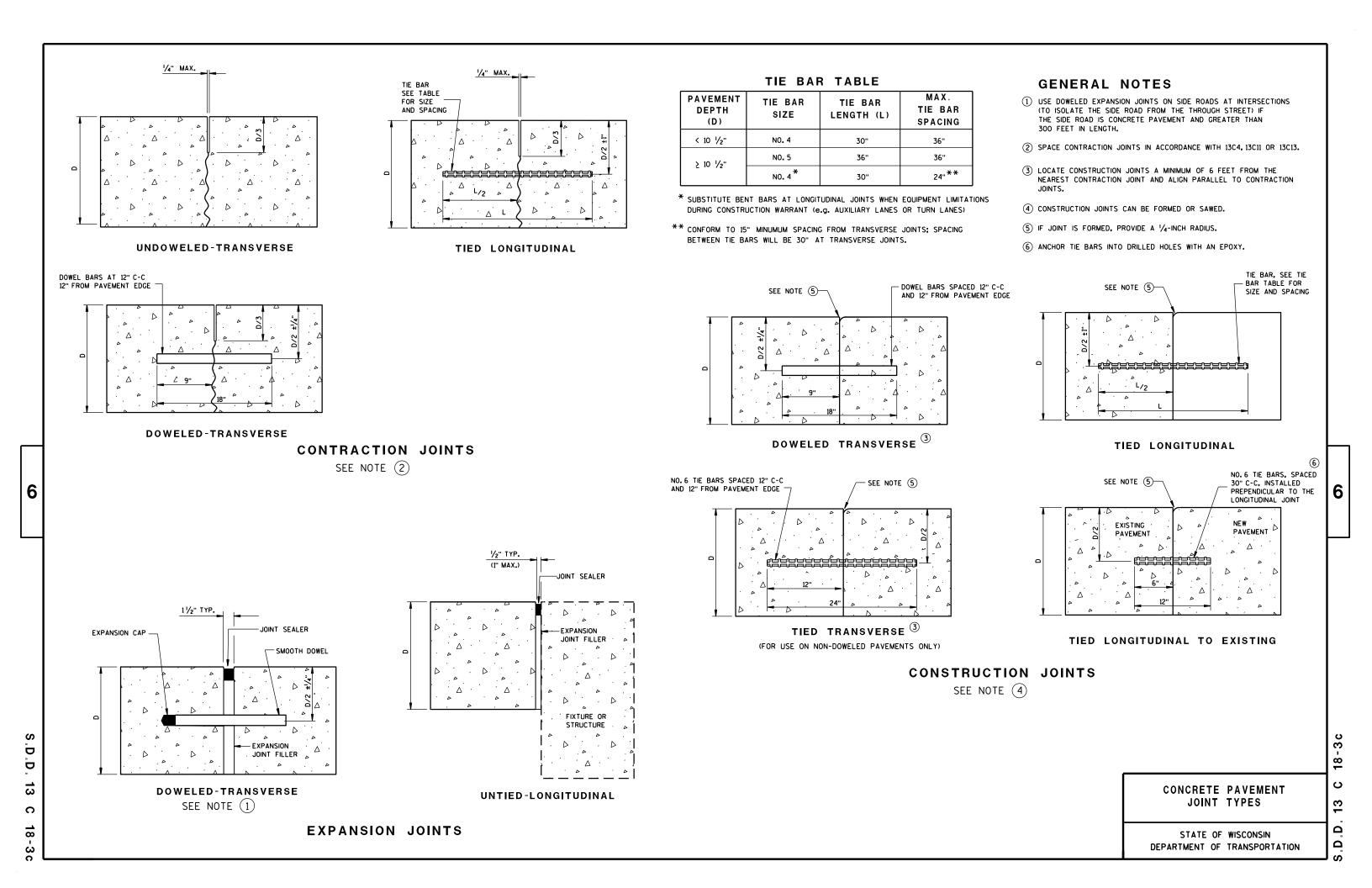
.D.D. 13

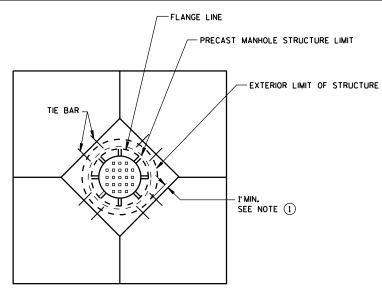
8

 \mathbf{a}

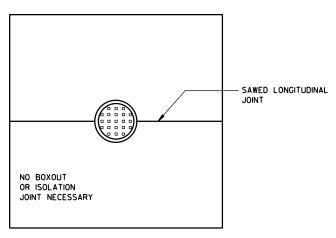




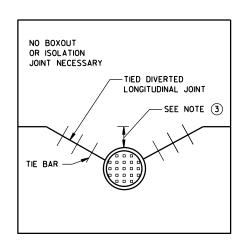




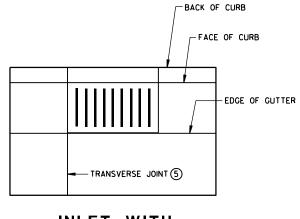
DIAGONAL MANHOLE BOXOUT FOR CONSTRUCTION JOINTS



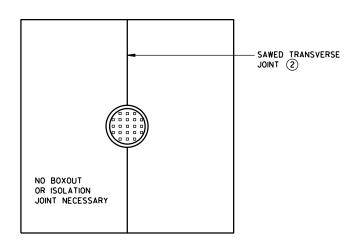
MANHOLE WITH LONGITUDINAL JOINT



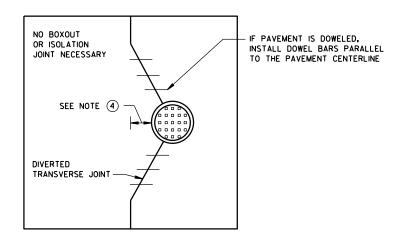
MANHOLE WITH DIVERTED LONGITUDINAL CONTRACTION JOINT



INLET WITH TRANSVERSE JOINT



MANHOLE WITH TRANSVERSE JOINT



MANHOLE WITH DIVERTED TRANSVERSE CONTRACTION JOINT

- 1 USE BOXOUTS WHEN UTILITY STRUCTURE IS IN THE PATH OF CONSTRUCTION JOINTS. PROVIDE A 1-FOOT MINIMUM CLEARANCE BETWEEN THE EXTERIOR LIMIT OF THE STRUCTURE TO THE DIAMOND BOXOUT.
- 2 ADJUST TRANSVERSE JOINT TO INTERSECT MANHOLE IF POSSIBLE.
- (3) IF DISTANCE BETWEEN THE LONGITUDINAL JOINT AND THE EDGE OF MANHOLE IS 2 FEET OR LESS. DIVERT THE LONGITUDIAL JOINT AT A 2:1 TAPER RATE TO THE CENTER OF THE MANHOLE. IF THE DISTANCE IS GREATER THAN 2 FEET, DO NOT DIVERT THE JOINT AND SAW AS NORMAL. PLACE REBAR REINFORCEMENT AROUND THE MANHOLE.
- (4) IF DISTANCE FROM THE EDGE OF THE MANHOLE TO THE NEAREST TRANSVERSE JOINT IS 4 FEET OR LESS. REDIRECT JOINT TO INTERSECT THE CENTER OF THE MANHOLE. IF DISTANCE IS GREATER THAN 4 FEET, DO NOT DIVERT THE JOINT AND SAW AS NORMAL. PLACE REBAR REINFORCEMENT AROUND THE MANHOLE.
- (5) ALIGN TRANSVERSE JOINT WITH ONE EDGE OF INLET WHEN PRACTICAL.

CONCRETE PAVEMENT JOINTING AT UTILITY FIXTURES

STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION

APPROVED DATE

/S/ Peter Kemp, P.E. PAVEMENT SUPERVISOR FHWA

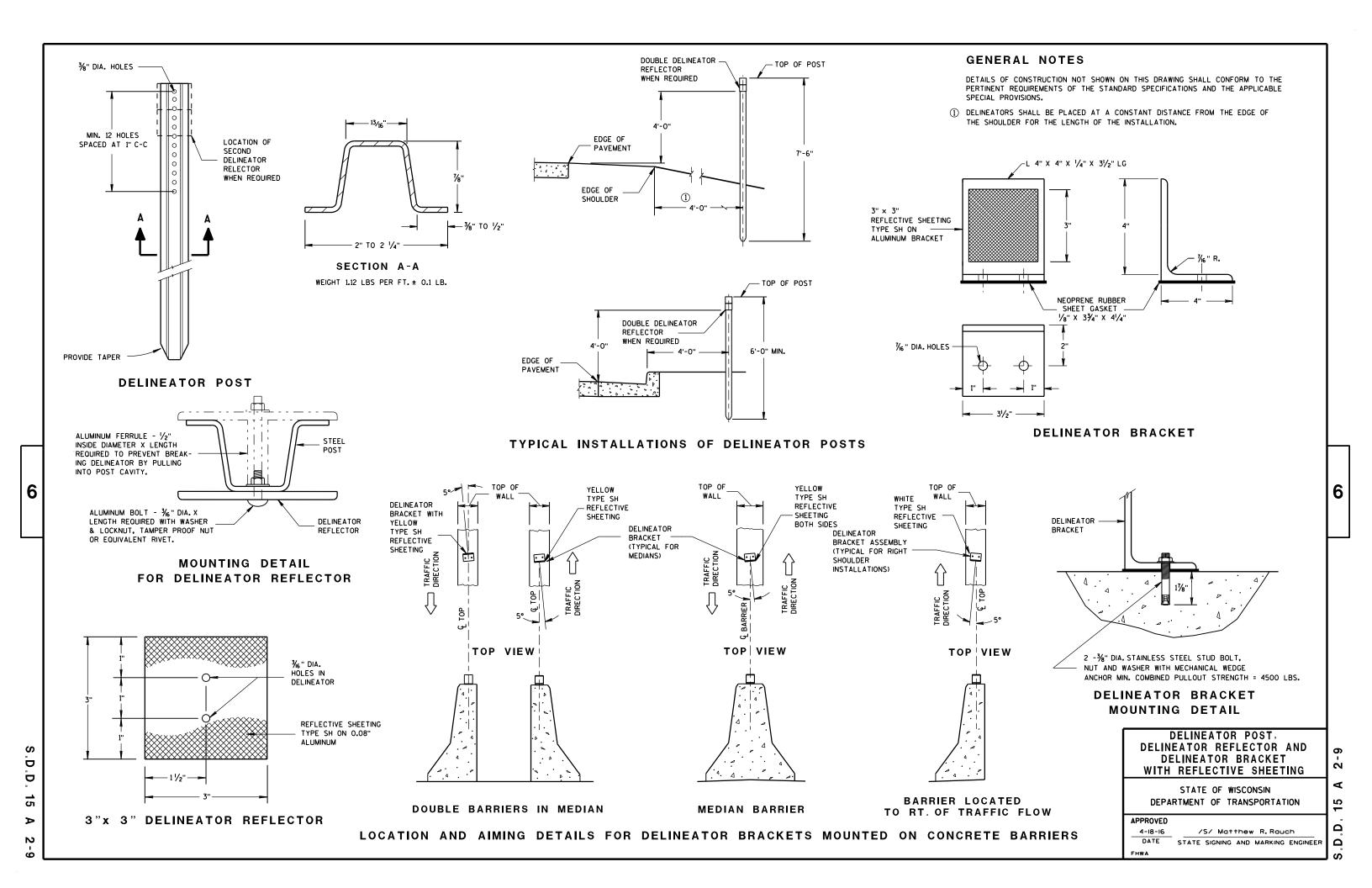
8

က

Ω

C

 ∞



6

S

D

D

15

C

THE EXACT NUMBER, LOCATION, AND SPACING OF ALL SIGNS AND DEVICES SHALL BE ADJUSTED TO FIT FIELD CONDITIONS.

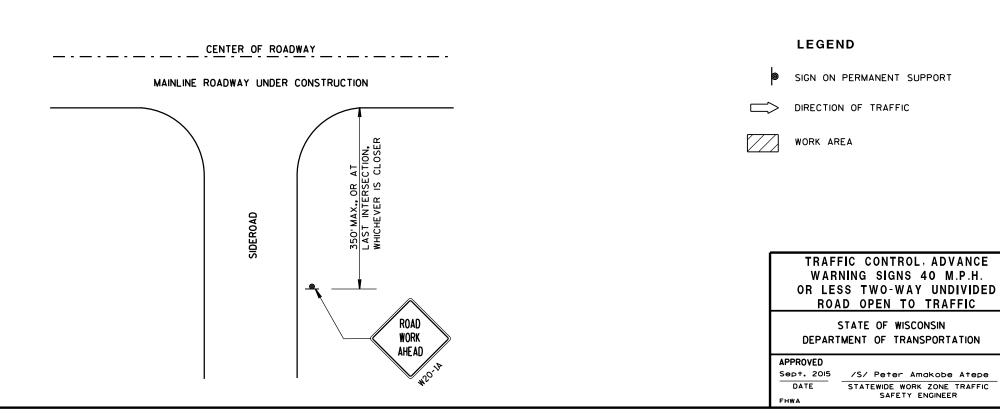
THE SPACING BETWEEN TRAFFIC CONTROL SIGNS SHOULD BE ADJUSTED TO NOT CONFLICT WITH AND SHOULD PROVIDE A DESIRABLE MINIMUM OF 200 FEET CLEARANCE TO EXISTING SIGNS THAT WILL REMAIN IN PLACE.

ALL SIGNS ARE 48"×48" UNLESS OTHERWISE NOTED. IF NECESSARY DUE TO SPACE CONSTRAINTS, 36"×36" SIGNS MAY BE USED INSTEAD OF 48"×48" SIGNS.

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

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.

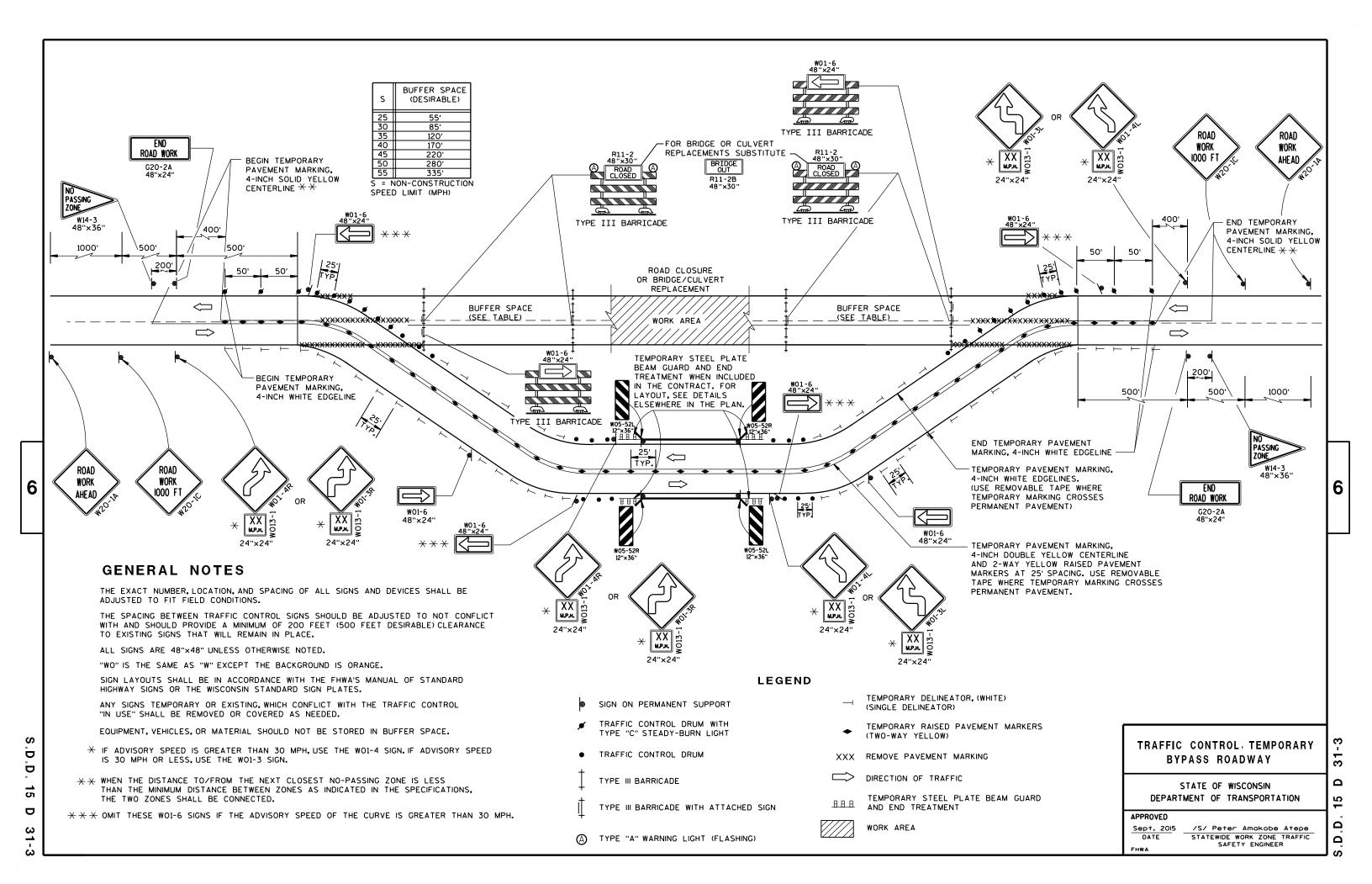
★ THE THIRD W20-1 SIGN IS REQUIRED ONLY IF THERE IS AN INTERSECTION BETWEEN THE "ROAD WORK 500 FT" SIGN AND THE WORK ZONE. ADJUST THE PLACEMENT OF THIS SIGN BASED ON INTERSECTION LOCATION AND OTHER FIELD CONDITIONS.



6

5-

Ω



URBAN ARFA



RURAL AREA (See Note 2)



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



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

White Edgeline Location

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

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

HWY:

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

PLOT BY : mscj9h

GENERAL NOTES

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

POST EMBEDMENT DEPTH

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

TYPICAL INSTALLATION OF PERMANENT TYPE II SIGNS ON SINGLE POSTS

WISCONSIN DEPT OF TRANSPORTATION

SHEET NO:

APPROVED

for State Traffic Engineer

DATE 7/23/15

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

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

PROJECT NO:

PLOT DATE: 23-JUL-2015 15:21

COUNTY:

PLOT NAME :

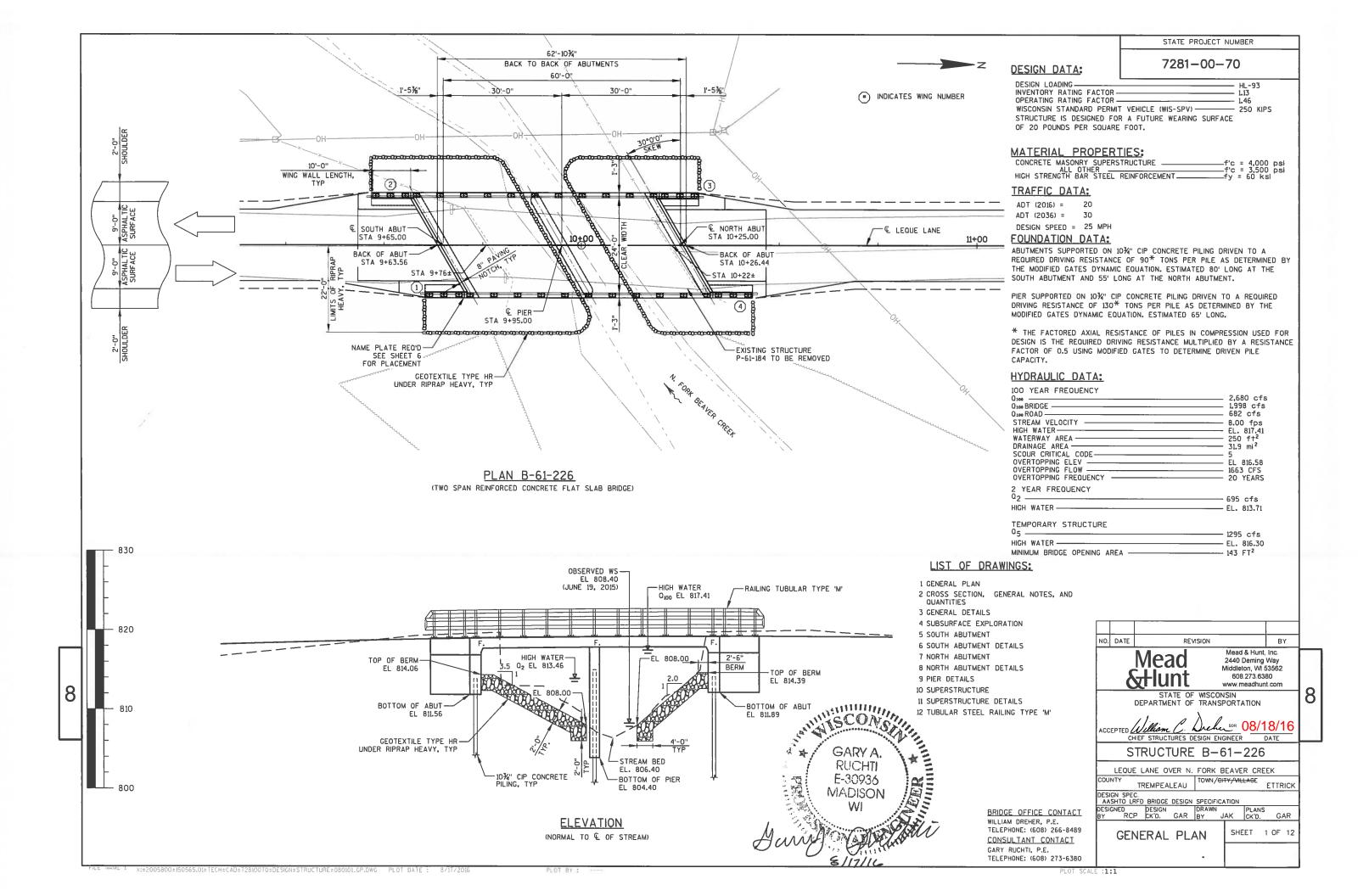
PLOT SCALE: 99.237937:1.000000

WISDOT/CADDS SHEET 42









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 OR 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 RIPRAP HEAVY AND GEOTEXTILE TYPE HR TO THE EXTENT SHOWN ON SHEET 1 AND IN THE ABUTMENT DETAILS.

AT THE BACKFACE 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.

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

PROTECTIVE SURFACE TREATMENT TO BE PLACED FULL WIDTH ON TOP SURFACE, SIDES AND OUTSIDE 1'-O" ON BOTTOM OF CONCRETE SLAB DECK.

PROTECTIVE SURFACE TREATMENT TO BE APPLIED TO THE TOP AND EXTERIOR EXPOSED FACE OF WINGS, AND THE END 1'-O" OF THE FRONT FACE OF ABUTMENT.

ALL STATIONS AND ELEVATIONS ARE IN FEET.

THE EXISTING STRUCTURE, TO BE REMOVED, IS A 48.4-FOOT TWO-SPAN STEEL DECK GIRDER BRIDGE, WITH A 16.4-FOOT CLEAR BRIDGE WIDTH (P-61-0184).

THE UPPER LIMIT FOR "EXCAVATION OF STRUCTURES BRIDGES B-61-226" SHALL BE THE EXISTING GROUNDLINE.

		OUT TO OUT OF STRUCTURE				
1'-3"		24'-0"	1'-			
	CLEAR ROADWAY WIDTH					
	12'-0"	12'-0"				
		© LEQUE LANE RAIL	LING TUBULAR— TYPE 'M', TYP			
♥	2%	POINT REFERRED TO ON PROFILE	€			
						
,						
3/4" V-GROOVE, 1	TYP DECK THICKNESS					
TYP	(IN SPAN)	l (AT PIER)	EDGE OF			

CROSS SECTION THRU ROADWAY

(LOOKING NORTH)

BENCH MARKS★

NO.	STATION	DESCRIPTION	ELEV.	
1	6+48, LT	PK IN ASPHALT, LT 7.0'	815.92	
2	10+17, LT	PK IN ABUT TIMBER	817.66	
3	13+34, LT	PK IN ASPHALT, LT 0.2'	818.07	

TOTAL ESTIMATED QUANTITIES

8

BID ITEM NO.	BID ITEMS	UNIT	S ABUT	N ABUT	PIER	SUPER	TOTALS
203.0600.S	REMOVING OLD STRUCTURE OVER WATERWAY WITH MINIMAL DEBRIS STATION 9+99	LS					1
206.1000	EXCAVATION FOR STRUCTURES BRIDGES B-61-226	LS					1
210.1500	BACKFILL STRUCTURE TYPE A	TON	90	90			180
502.0100	CONCRETE MASONRY BRIDGES	CY	29	29	35	86	179
502,3200	PROTECTIVE SURFACE TREATMENT	SY	12	12		214	238
505.0400	BAR STEEL REINFORCEMENT HS STRUCTURES	LB	1720	1720	1690		5130
505.0600	BAR STEEL REINFORCEMENT HS COATED STRUCTURES	LB	1360	1360		21010	23730
513.4061	RAILING TUBULAR TYPE M B-61-226	LF					171
516.0500	RUBBERIZED MEMBRANE WATERPROOFING	SY	9	9			18
550.2104	PILING CIP CONCRETE 10 3/4 X 0.25-INCH	LF	400	275	520		1195
606.0300	RIPRAP HEAVY	CY	120	90			210
612.0406	PIPE UNDERDRAIN WRAPPED 6-INCH	LF	60	60			120
645.0120	GEOTEXTILE TYPE HR	SY	240	190			430
	NON BID ITEMS						
	FILLER	SIZE					1/2" & 3/4"

STRUCTURE B-61-226

CROSS SECTION,
GENERAL NOTES,

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

BY

STRUCTURE B-61-226

DRAWN
BY
JAK
CK'D. GAR
SHEET 2 OF 12

AND QUANTITIES

8

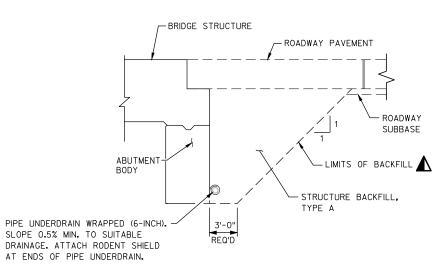
FILE NAME: X:±2005800±150565.01±TECH±CAD±72810070±DESIGN±STRUCTURE±080102_TS.DWG

PLOT DATE: 8/12/2016

)16 PL

PLOT BY: MATTHEW BUCKLI

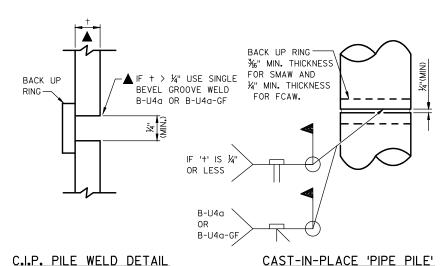
7281-00-70



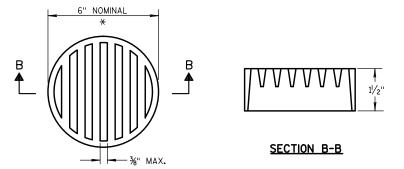
STRUCTURE BACKFILL & PIPE UNDERDRAIN DETAIL

(TYPICAL AT BOTH ABUTMENTS)

A BACKFILL PAY LIMITS. BACKFILL BEYOND BACKFILL PAY LIMITS OF EXCAVATION SHALL BE DETERMINED BY THE CONTRACTOR.



CAST-IN-PLACE SHELL MATERIAL SHALL BE IN ACCORDANCE WITH THE STANDARD SPECIFICATIONS.

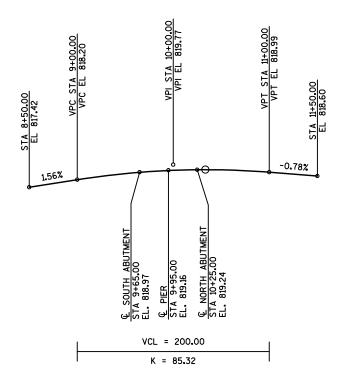


RODENT SHIELD DETAIL

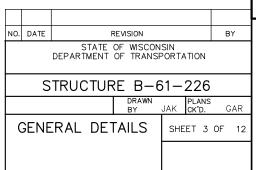
*DIMENSIONS ARE APPROXIMATE, THE GRATE IS SIZED TO FIT INTO A PIPE COUPLING, ORIENT SHIELD SO SLOTS ARE VERTICAL.

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

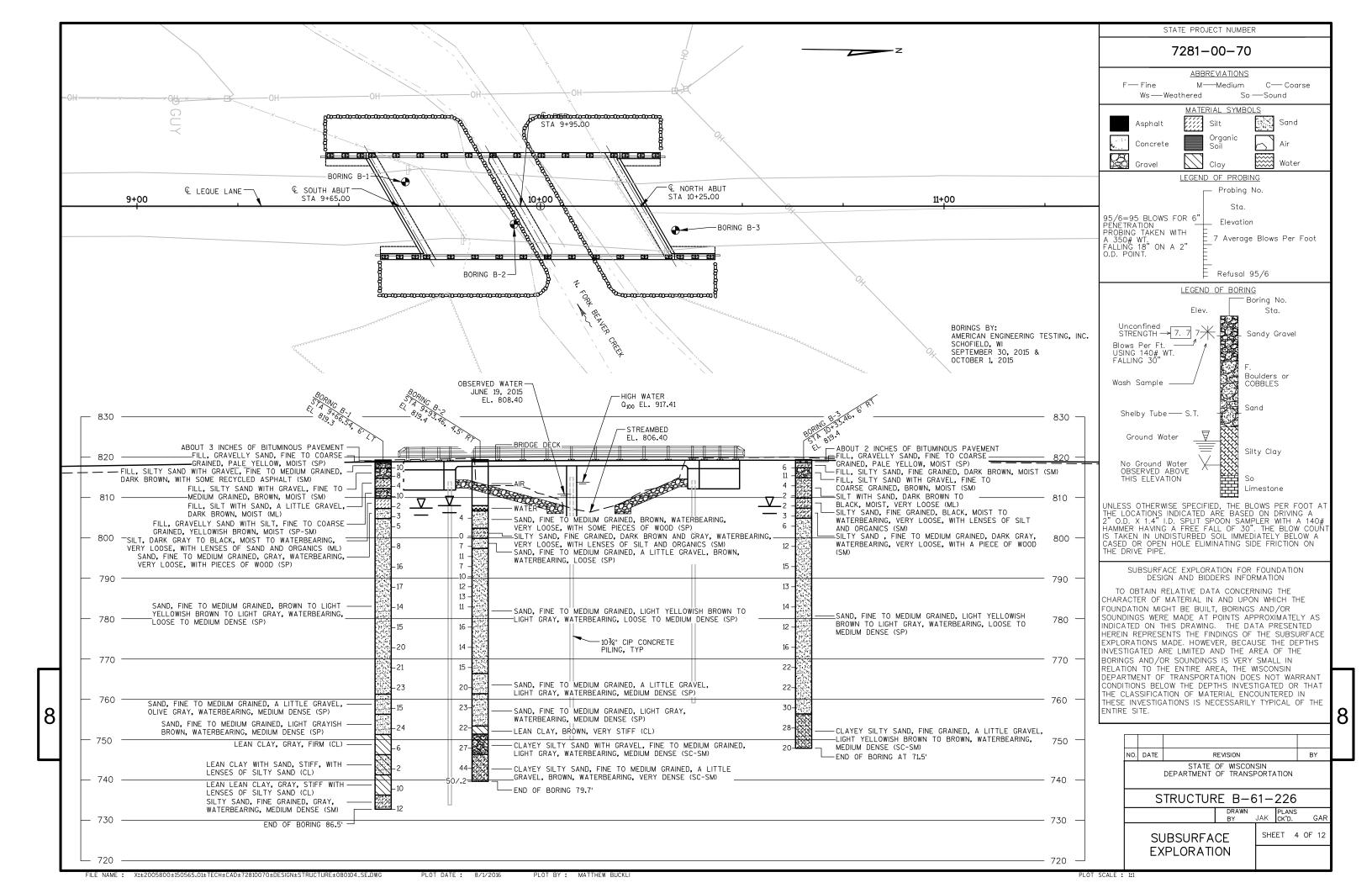
THE RODENT SHIELD SHALL BE A PVC GRATE SIMILAR TO THIS DETAIL. THE GRATE IS COMMERCIALLY AVAILABLE AS A FLOOR STRAINER. A PIPE COUPLING IS REQUIRED FOR THE ATTACHMENT OF THIS SHIELD TO THE EXPOSED END OF THE PIPE UNDERDRAIN. THE SHIELD SHALL BE FASTENED TO THE PIPE COUPLING WITH TWO OR MORE NO. 10 X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

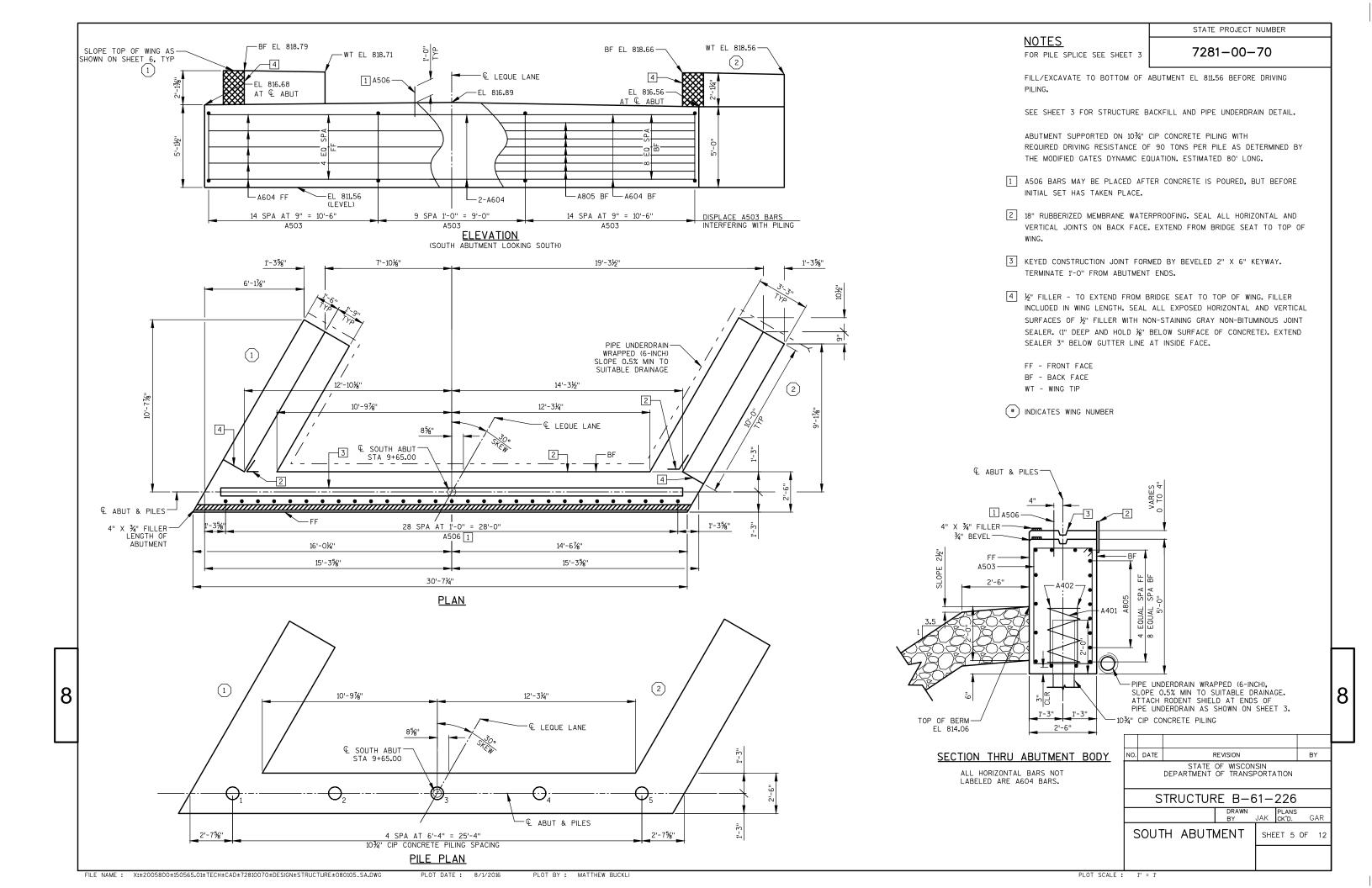


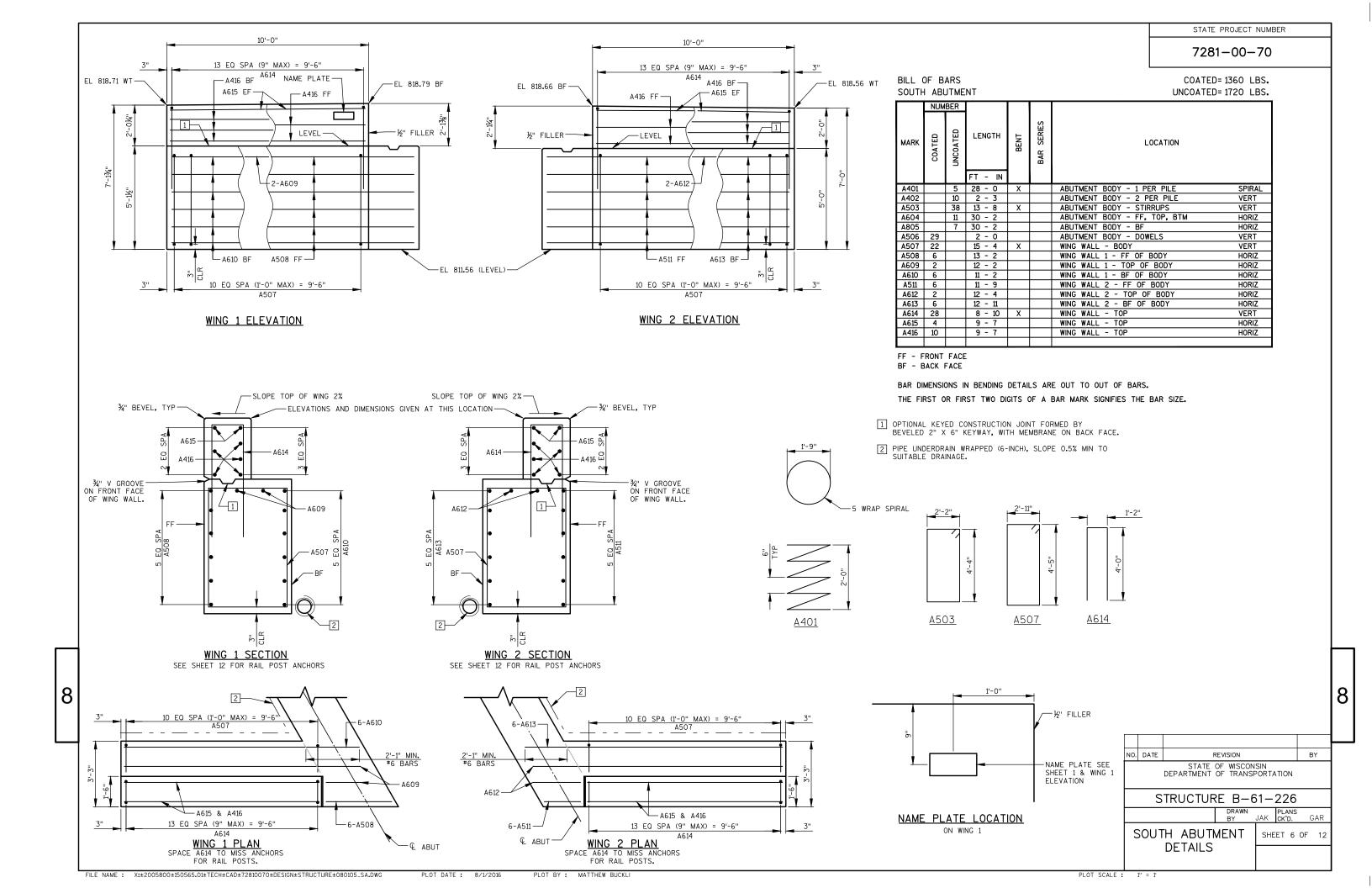
PROFILE GRADE LINE, & LEQUE LANE

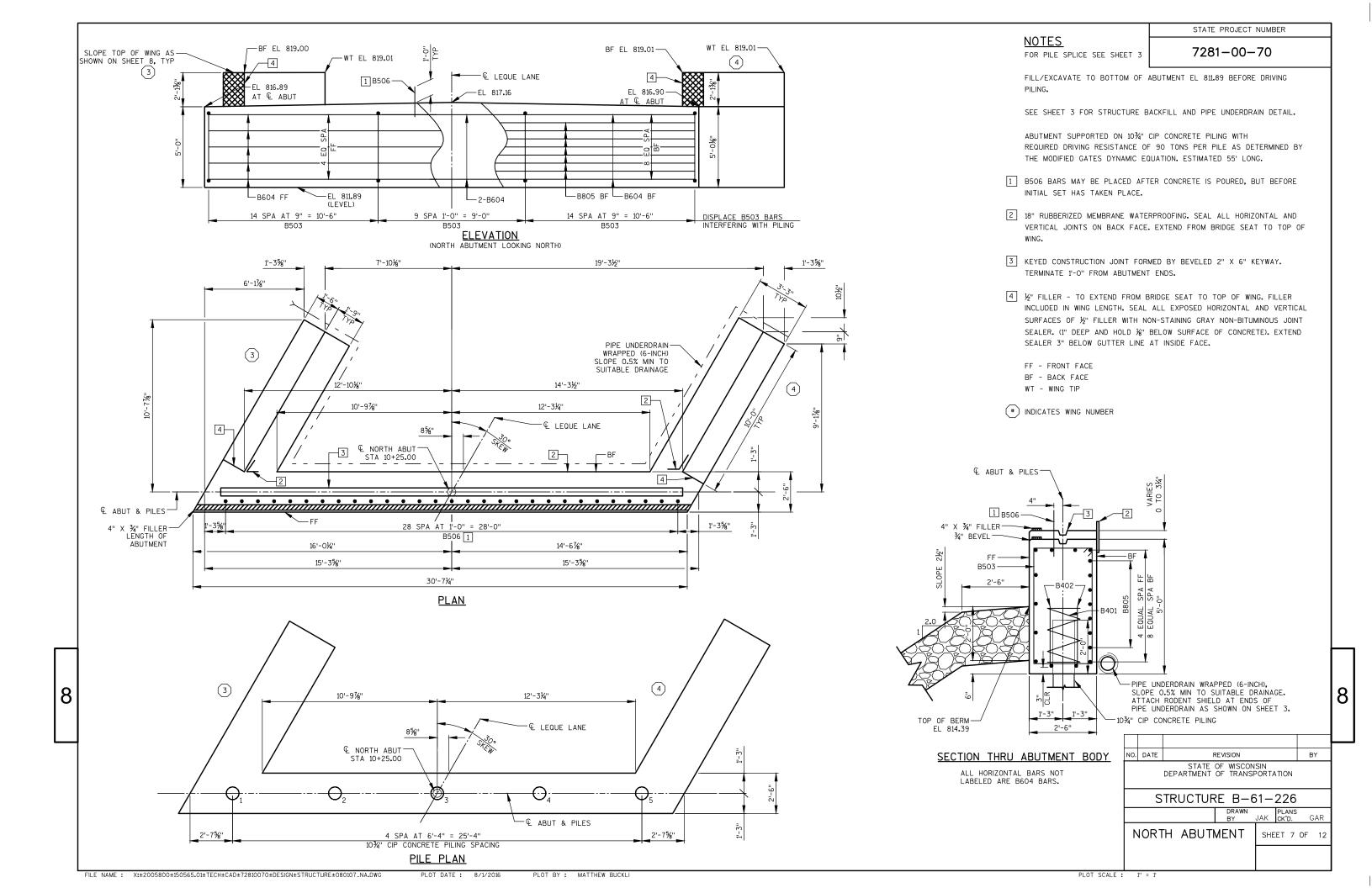


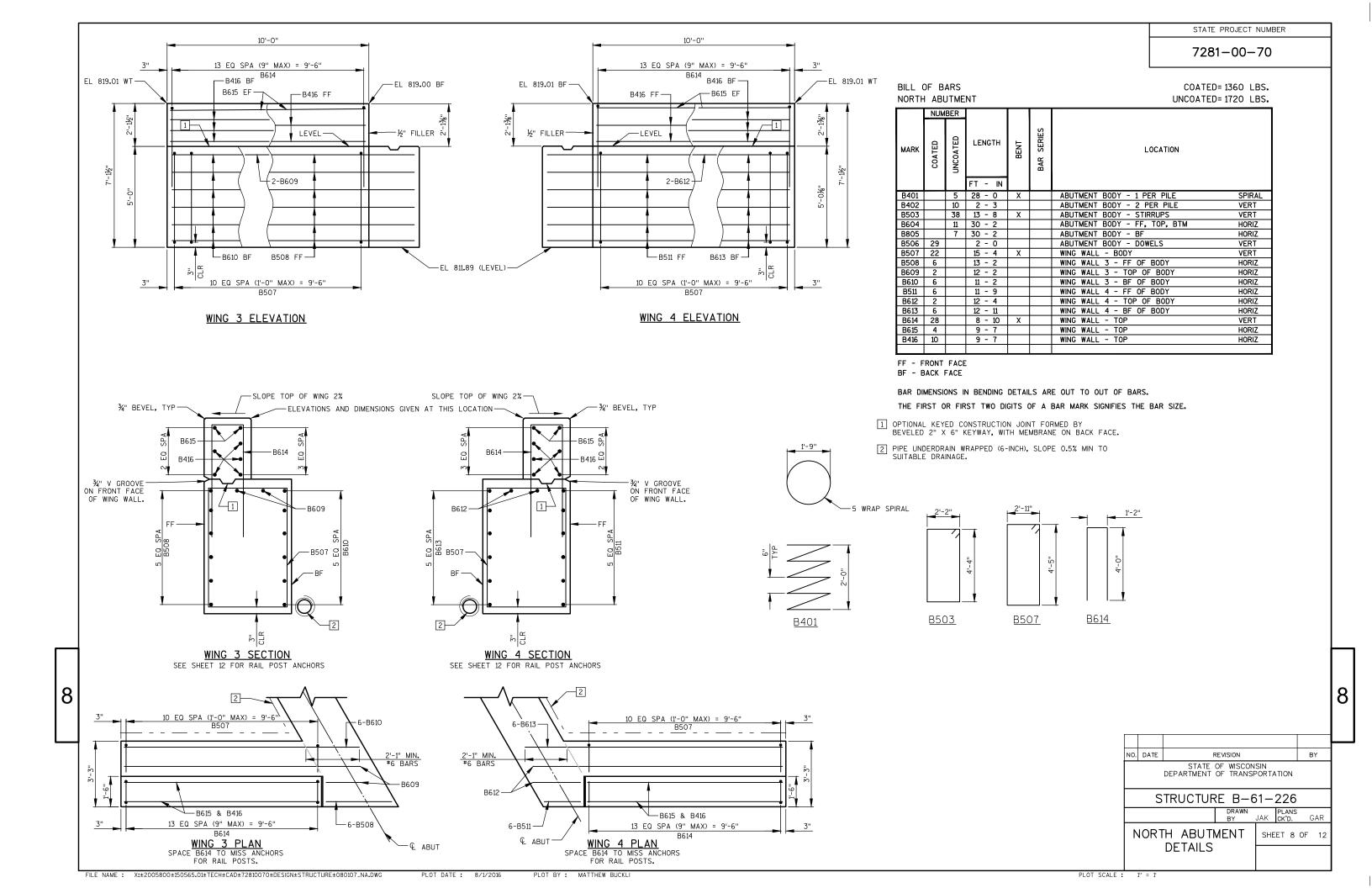
8

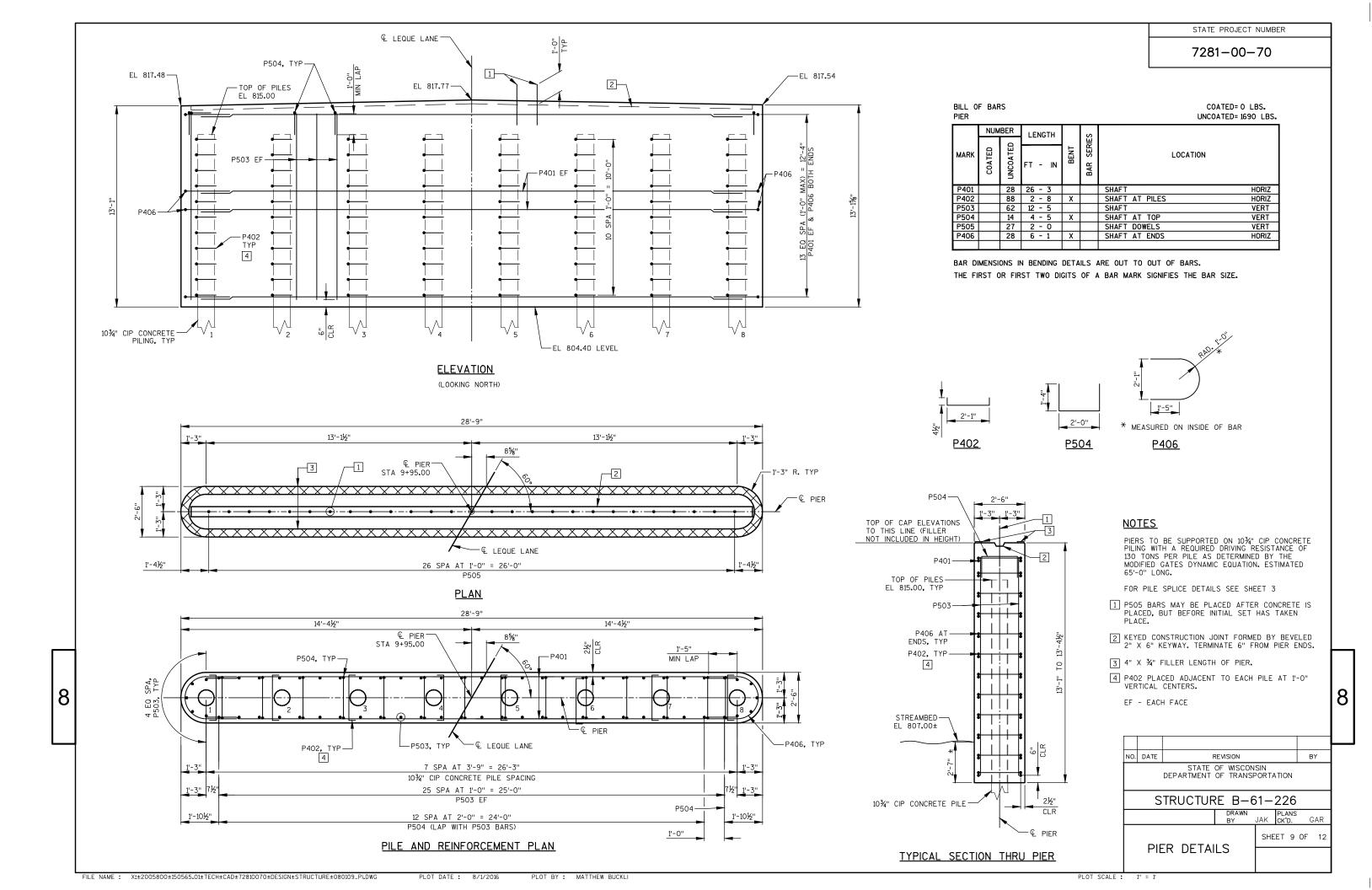


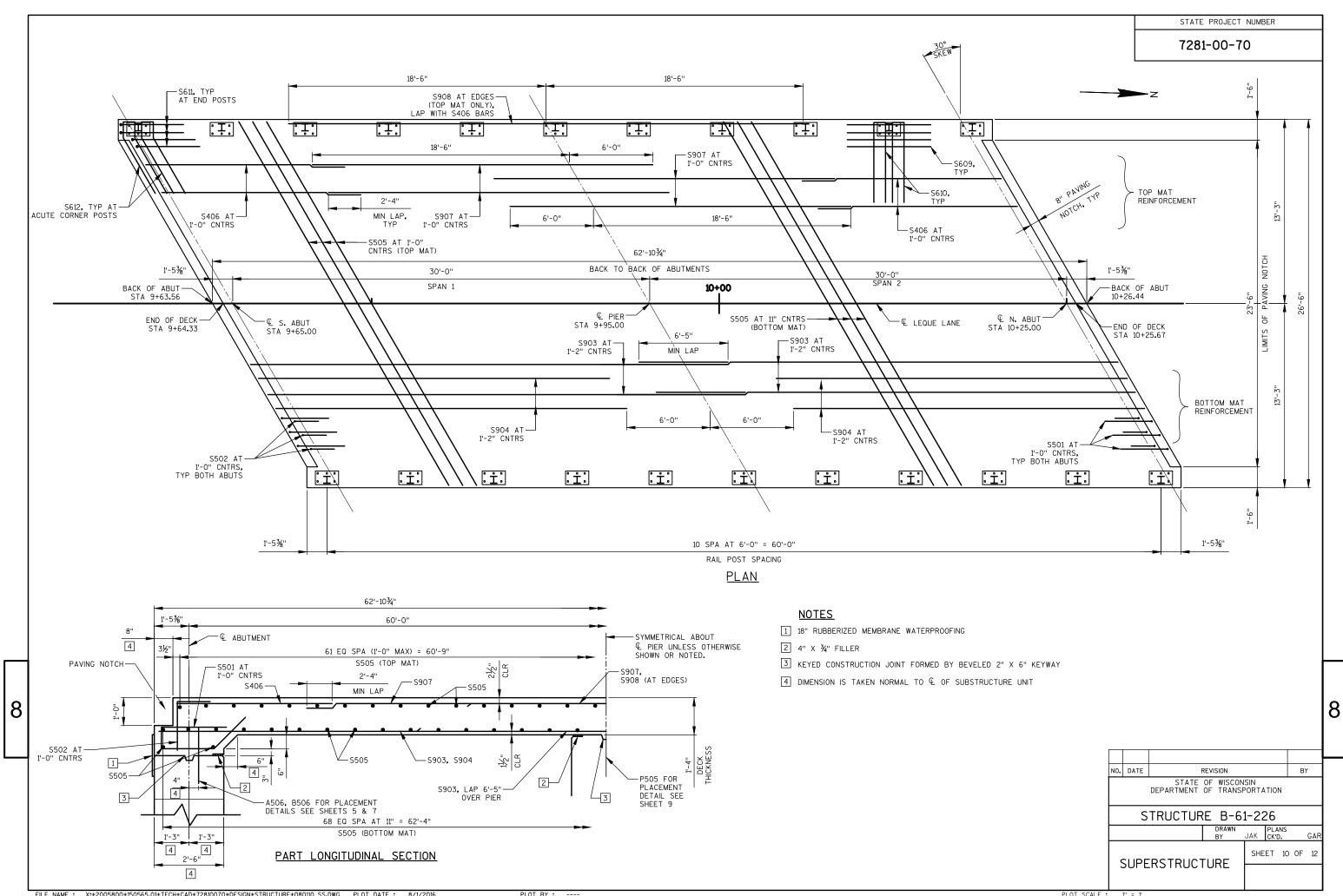








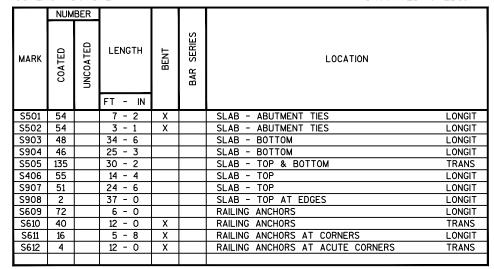




STATE PROJECT NUMBER

7281-00-70

BILL OF BARS SUPERSTRUCTURE COATED= 21010 LBS.
UNCOATED= 0 LBS.



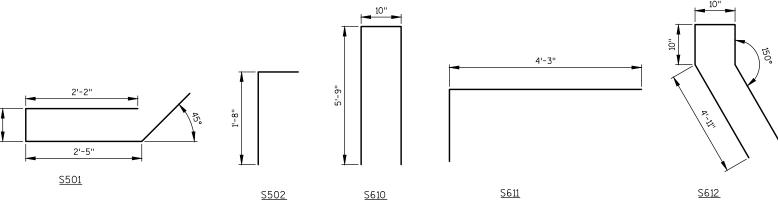
BAR DIMENSIONS IN BENDING DETAILS ARE OUT TO OUT OF BARS.

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

TOP OF DECK ELEVATIONS

	WEST	EDGE	CENTERLIN	E/CROWN	EAST	EDGE
SPAN PT.	STATION	ELEVATION	STATION	ELEVATION	STATION	ELEVATION
S. ABUT.	9 + 57.35	818.64	9 + 65.00	818.97	9 + 72.65	818.77
0.1	9 + 60.35	818.67	9 + 68.00	819.00	9 + 75.65	818.79
0.2	9 + 63.35	818.69	9 + 71.00	819.02	9 + 78.65	818.81
0.3	9 + 66.35	818.72	9 + 74.00	819.04	9 + 81.65	818.83
0.4	9 + 69.35	818.74	9 + 77.00	819.06	9 + 84.65	818.84
0.5	9 + 72.35	818.76	9 + 80.00	819.08	9 + 87.65	818.86
0.6	9 + 75.35	818.78	9 + 83.00	819.10	9 + 90.65	818.88
0.7	9 + 78.35	818.80	9 + 86.00	819.12	9 + 93.65	818.89
0.8	9 + 81.35	818.82	9 + 89.00	819.13	9 + 96.65	818.90
0.9	9 + 84.35	818.84	9 + 92.00	819.15	9 + 99.65	818.92
PIER	9 + 87.35	818.86	9 + 95.00	819.16	10 + 02.65	818.93
0.1	9 + 90.35	818.87	9 + 98.00	819.17	10 + 05.65	818.94
0.2	9 + 93.35	818.89	10 + 01.00	819.19	10 + 08.65	818.95
0.3	9 + 96.35	818.90	10 + 04.00	819.20	10 + 11.65	818.96
0.4	9 + 99.35	818.91	10 + 07.00	819.21	10 + 14.65	818.96
0.5	10 + 02.35	818.93	10 + 10.00	819.22	10 + 17.65	818.97
0.6	10 + 05.35	818.94	10 + 13.00	819.22	10 + 20.65	818.97
0.7	10 + 08.35	818.95	10 + 16.00	819.23	10 + 23.65	818.98
0.8	10 + 11.35	818.95	10 + 19.00	819.24	10 + 26.65	818.98
0.9	10 + 14.35	818.96	10 + 22.00	819.24	10 + 29.65	818.98
N. ABUT.	10 + 17.35	818.97	10 + 25.00	819.24	10 + 32.65	818.98

26'-6"
OUT TO OUT OF STRUCTURE 12'-0" 12'-0" 50 SPA AT 6" = 25'-0" S406 (AT ABUTMENTS), S907 (OVER PIERS) 2 RAILING TUBULAR -TYPE 'M', TYP —€ LEQUE LANE — POINT REFERRED TO ON PROFILE −S505 21/2" S406 -S502 2% -S505 2-S406 & S908, TYP AT BOTH EDGES -S505 5" - S505 TYP -2 S505. V_S501 IN HAUNCH 26 SPA AT 1'-0" = 26'-0" S501 & S502 (BOTH ABUTMENTS) 23 EQ SPA (1'-2" MAX) = 26'-0" S903 (LAP 6'-5" AT € PIER) 63/4" 63/4" 22 EQ SPA (1'-2" MAX) = $24'-10\frac{1}{2}$ " S904 (SPACED BETWEEN S903 BARS AT ABUTMENTS) 2 AT PIER AT ABUTMENTS CROSS SECTION THRU ROADWAY (LOOKING NORTH)



PROTECTIVE SURFACE TREATMENT 5" 1'-0"	ABULTOW OF STAB ABOLLOM OF STAB ABOLLO
PROTECTIVE SURFACE TREATMENT DETAIL	CAMBER DIAGRAM CAMBER SPAN AS SHOWN (USING VALUES IN TABLE) TO PROVIDE

	(IN)	
⊈ S ABUT	0	
0.1	⅓	
0.2	1/4	
0.3	3/8	
0.4	3/8	
0.5	¾	
0.6	1/4	
0.7	1/4	
0.8	⅓ 0	
0.9		
€ PIER	0	
0.1	0	
0.2	1/8	
0.3	1/4	
0.4	1/4	
0.5	3/8	
0.6	3/8	
0.7	¾	1
0.8	1/4	ا ا
0.9	⅓ 0	
€ N ABUT	0	2

SPAN (PT) CAMBER

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.

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

PRIOR TO RELEASING SLAB FALSEWORK, TAKE TOP OF SLAB ELEVATIONS AT THE $\mathbb Q$ OF ABUTMENTS AND AT $\frac{1}{10}$ PTS. TO VERIFY CAMBER, TAKE ELEVATIONS ALONG END OF DECK AND $\mathbb Q$.

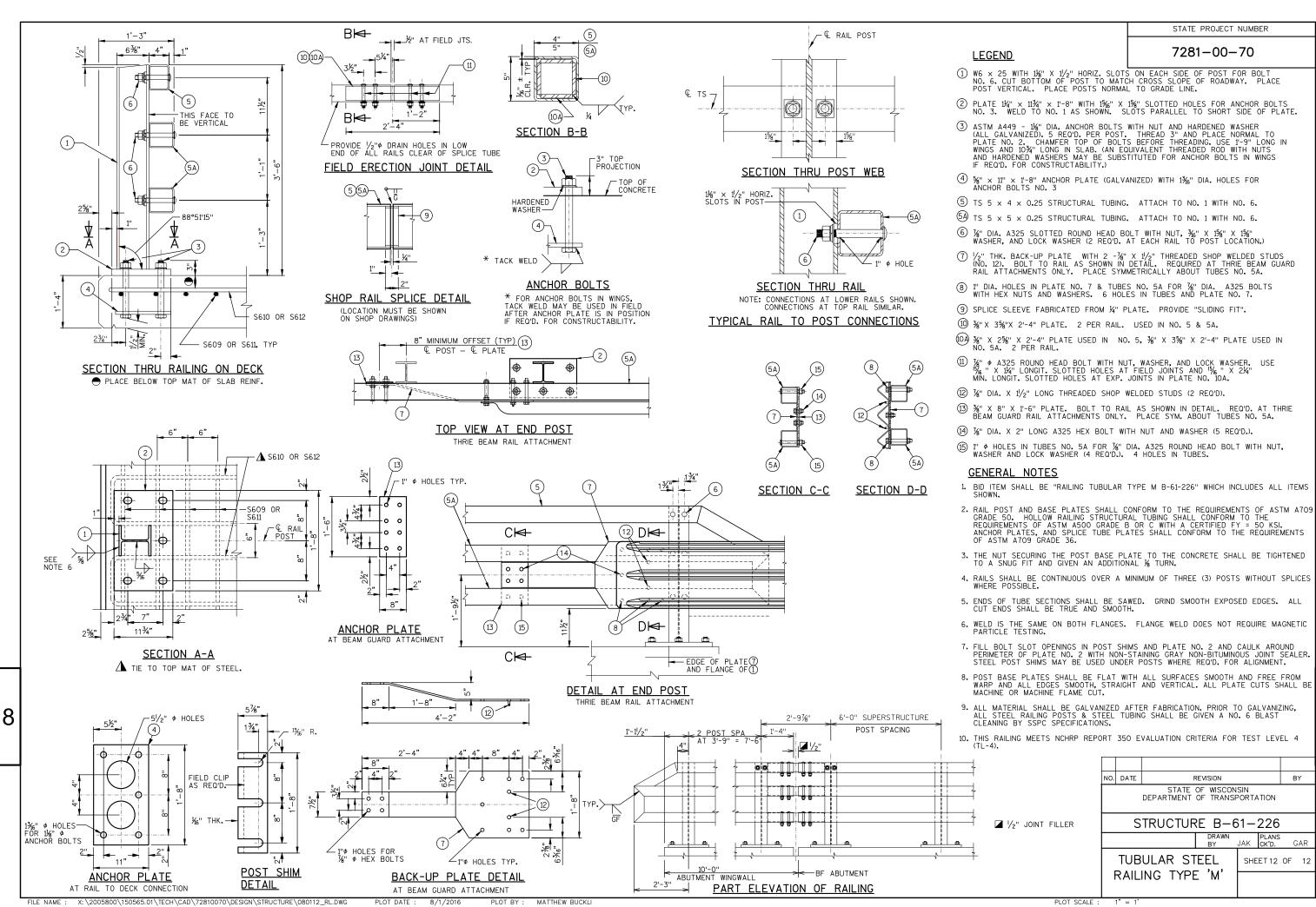
- ¾" V-GROOVE. EXTEND V-GROOVE TO 6" FROM FRONT FACE OF ABUTMENT DIAPHRAGM. V-GROOVES ARE REQUIRED.
- ALTERNATE BAR PLACEMENT AS SHOWN IN THE PLAN VIEW ON SHEET 10.

NO.	DATE	F	REVISION			BY	
STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION							
	S	TRUCTUR	RE B-6	51 —.	226		
			DRAWN BY	JAK	PLANS CK'D.	GAR	
S	SUPE	RSTRUC' DETAILS	SHE	ET 11	OF 12		

8

8

FOR DEAD LOAD DEFLECTION & FUTURE CREEP. CAMBER DOES NOT INCLUDE ALLOWANCE FOR FORM SETTLEMENT.



PLOT SCALE

	AREA (SF)			Incremental Vol	(CY) (Unadjusted)		Cumulative Vol (CY)	
					Salvaged/Unusable		Cut		
	Cut	Salvaged/Unusable	Fill	Cut	Pavement Material	Fill	1.00	Expanded Fill	Mass Ordinate
STATION		Pavement Material		Note 1	Note 2	Note 3	Note 1	1.25	Note 4
8+50	20	4	0	0	0	0	0	0	0
8+75	17	4	12	17	3	5	17	7	8
9+00	20	4	5	17	3	8	34	16	12
9+25	30	4	3	23	4	4	57	21	27
9+56	40	4	0	40	6	2	98	23	59
9+56	0	0	0	0	0	0	98	23	59
10+34	0	0	0	0	0	0	98	23	59
10+34	46	4	10	0	3	0	98	23	55
10+75	28	4	20	56	4	23	154	51	79
11+00	17	4	35	21	3	25	175	83	66
11+25	18	4	23	16	3	27	191	116	46
11+50	19	4	0	17	3	10	208	129	48
			Column Total	200	21	102			
			Column Total	208	31	103			

Notes:

- 1 Cut (Salvaged/Unusable Pavement Material is Included)
- 2 Salvaged/Unusable Pavement Material (This does not show up in cross sections.)
- 3 Fill (Does not include Unuseable Pavement volume.)
- 4 The Mass Ordinate + or quantity calculated. Plus quantity indicates as excess of material. Minus indicates a shortage of

No Marsh or EBS is anticipated.

	AREA (SF)			Incremental Vol	(CY) (Unadjusted)		Cumulative Vol (CY	')	
					Salvaged/Unusable		Cut		
	Cut	Salvaged/Unusable	Fill	Cut	Pavement Material	Fill	1.00	Expanded Fill	Mass Ordinate
STATION		Pavement Material		Note 1	Note 2	Note 3	Note 1	1.25	Note 4
17+93	1	0	6	0	0	0	0	0	0
18+00	1	0	9	0	0	2	0	3	-2
18+50	1	0	55	2	0	59	2	76	-74
19+00	0	0	97	1	0	140	3	251	-248
19+50	0	0	155	0	0	233	3	542	-539
19+75	0	0	155	0	0	143	3	721	-718
19+75	0	0	0	0	0	0	3	721	-718
20+25	0	0	0	0	0	0	3	721	-718
20+25	0	0	134	0	0	0	3	721	-718
20+50	0	0	134	0	0	124	3	877	-874
21+00	0	0	86	0	0	204	3	1131	-1129
21+50	1	0	39	1	0	116	3	1276	-1272
21+98	1	0	13	0	0	0	3	1276	-1272
	1		Column Total	3	0	1021			

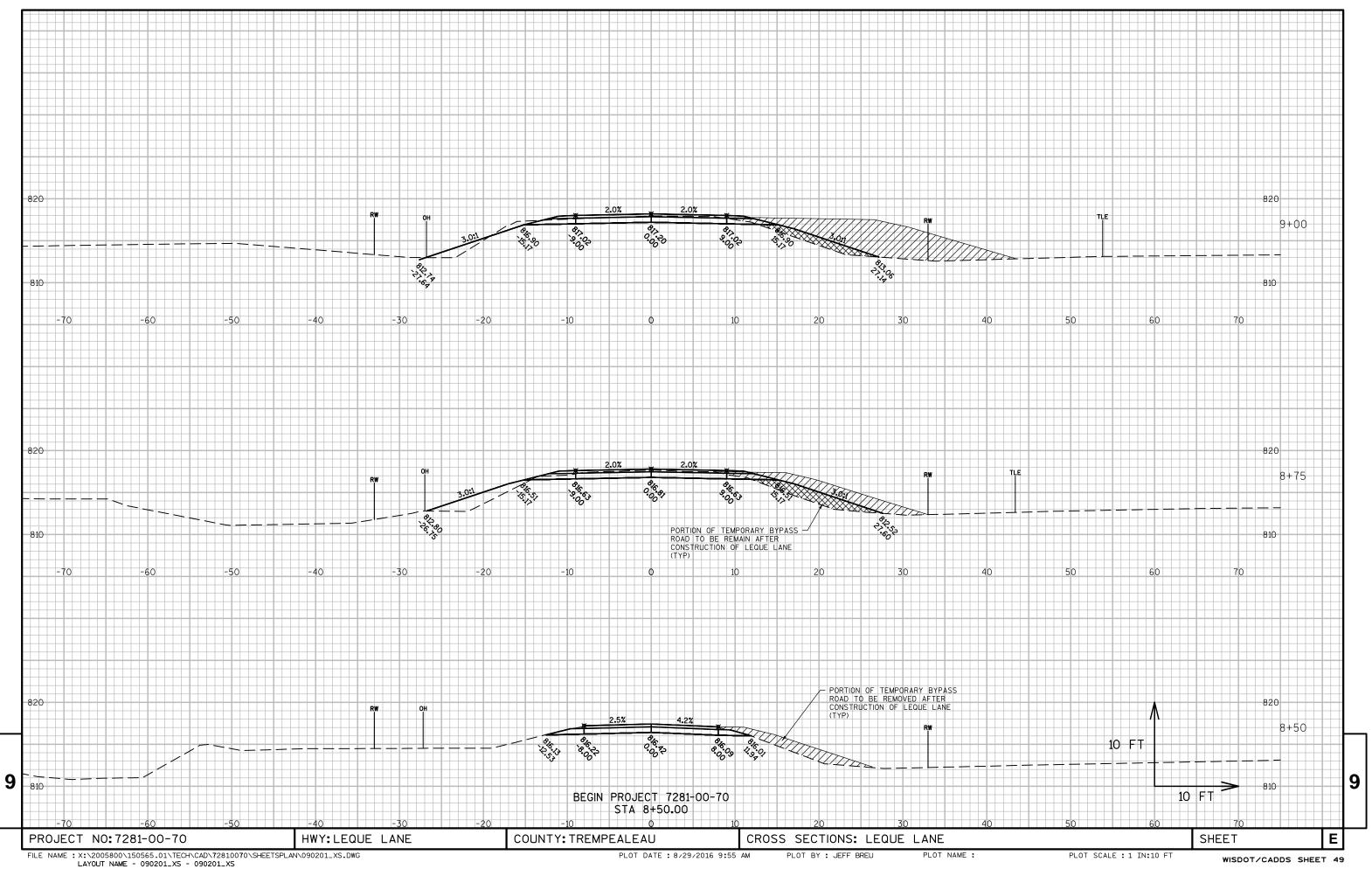
Notes:

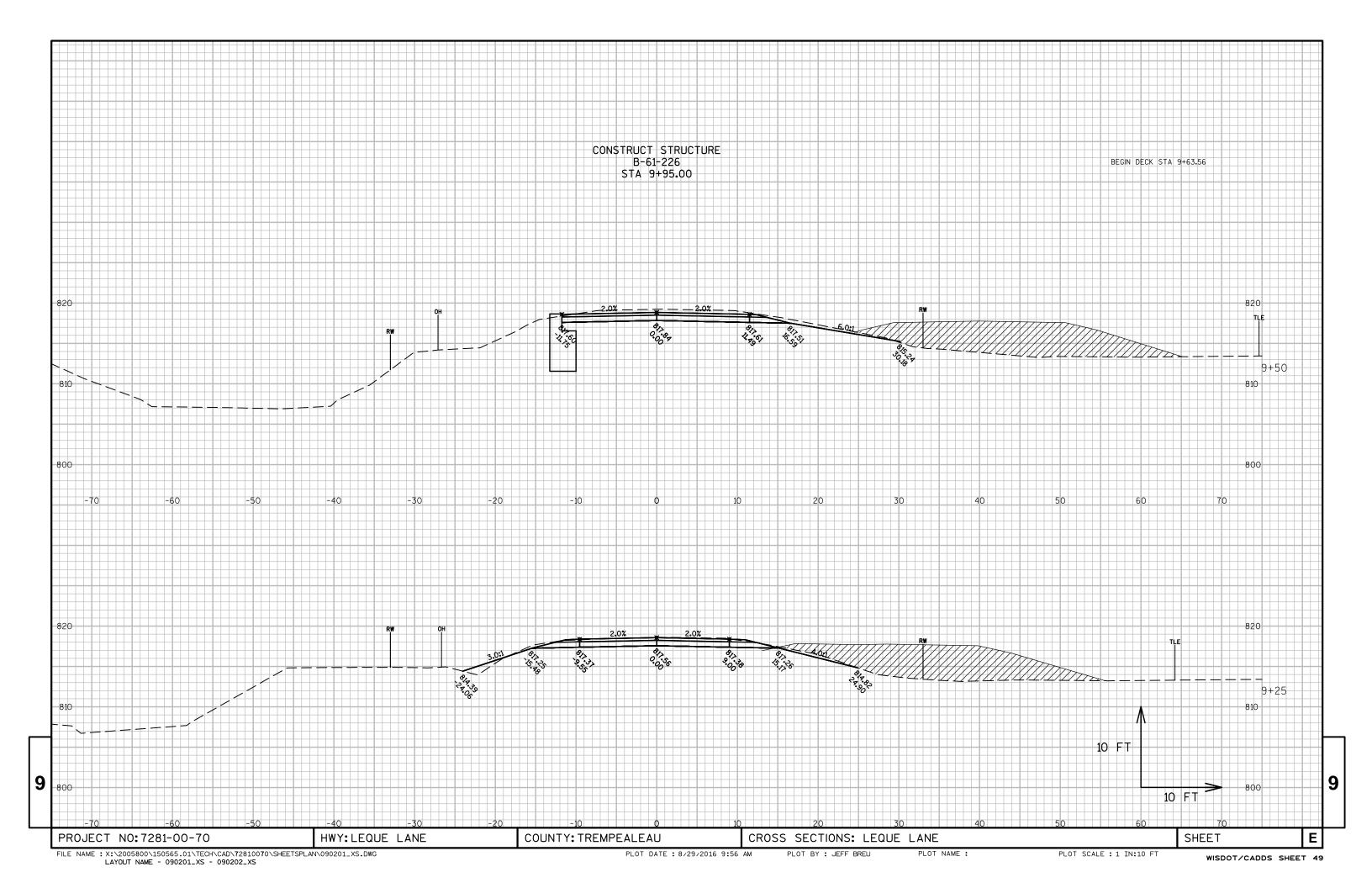
- 1 Cut (Salvaged/Unusable Pavement Material is Included)
- 2 Salvaged/Unusable Pavement Material (This does not show up in cross sections.)
- 3 Fill (Does not include Unuseable Pavement volume.)
- 4 The Mass Ordinate + or quantity calculated. Plus quantity indicates as excess of material. Minus indicates a shortage of

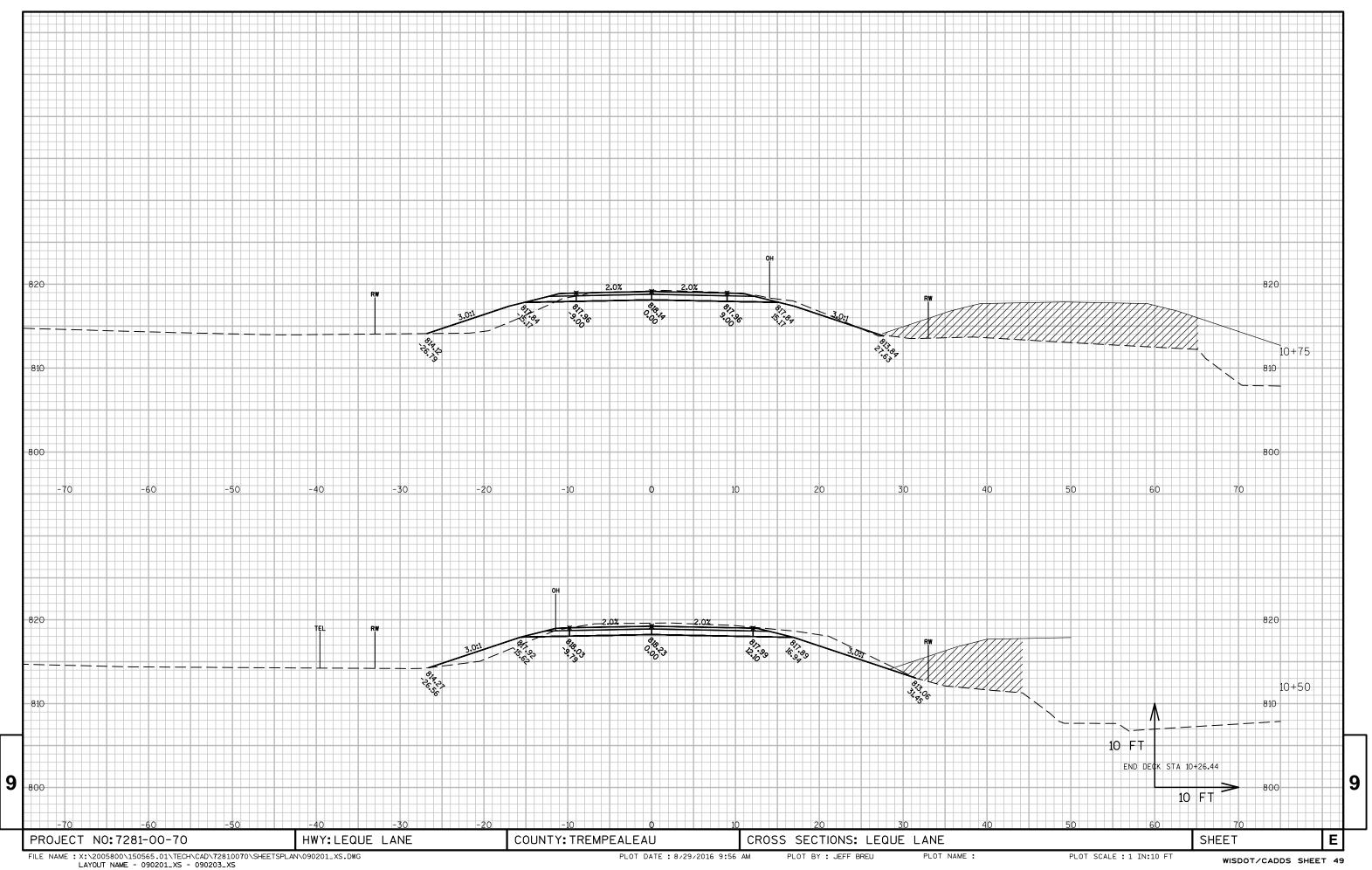
No Marsh or EBS is anticipated.

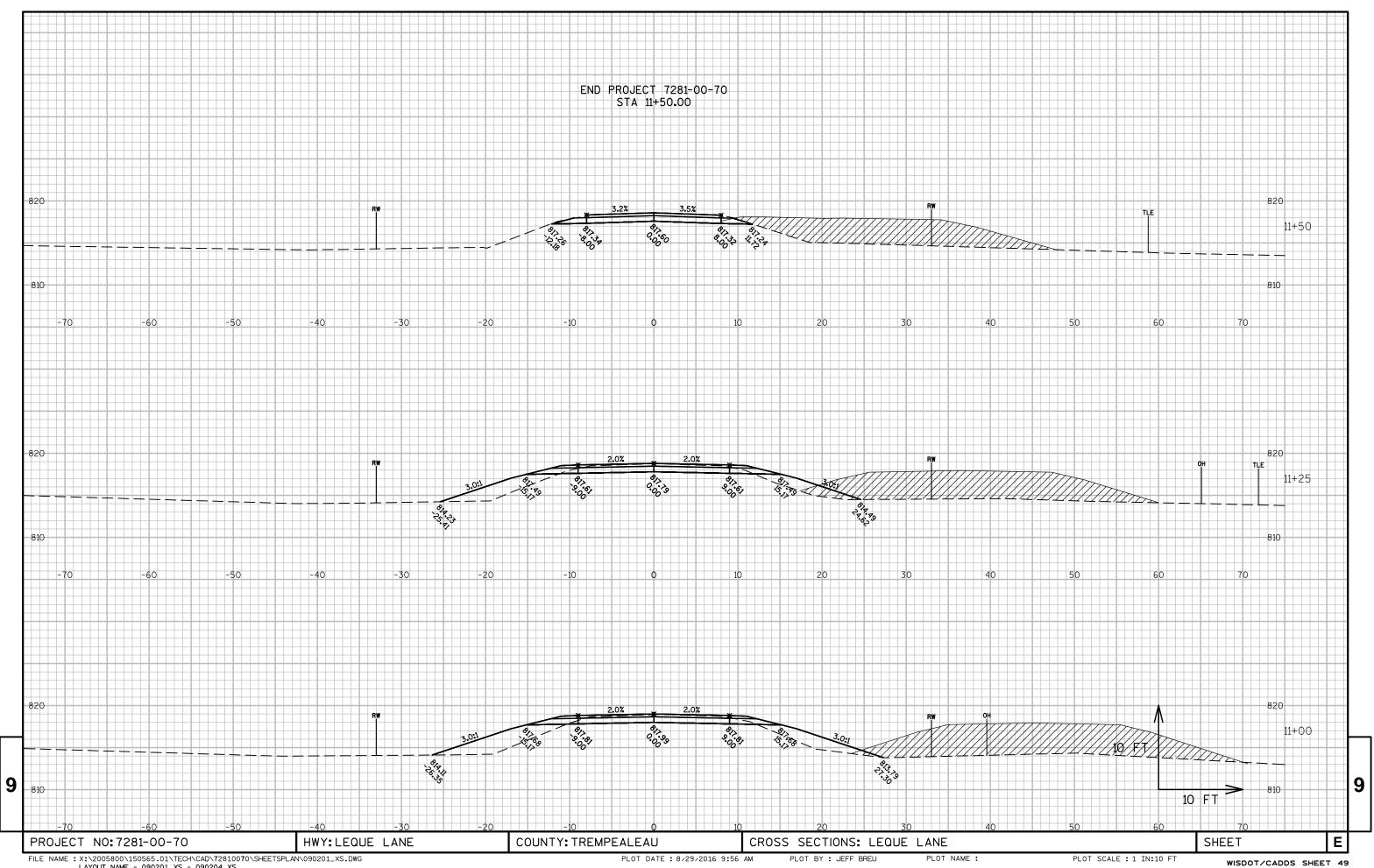
PROJECT NO: 781-00-70 HWY: LEQUE LANE COUNTY: TREMPEALEAU EARTHWORK SUMMARY SHEET NO: E

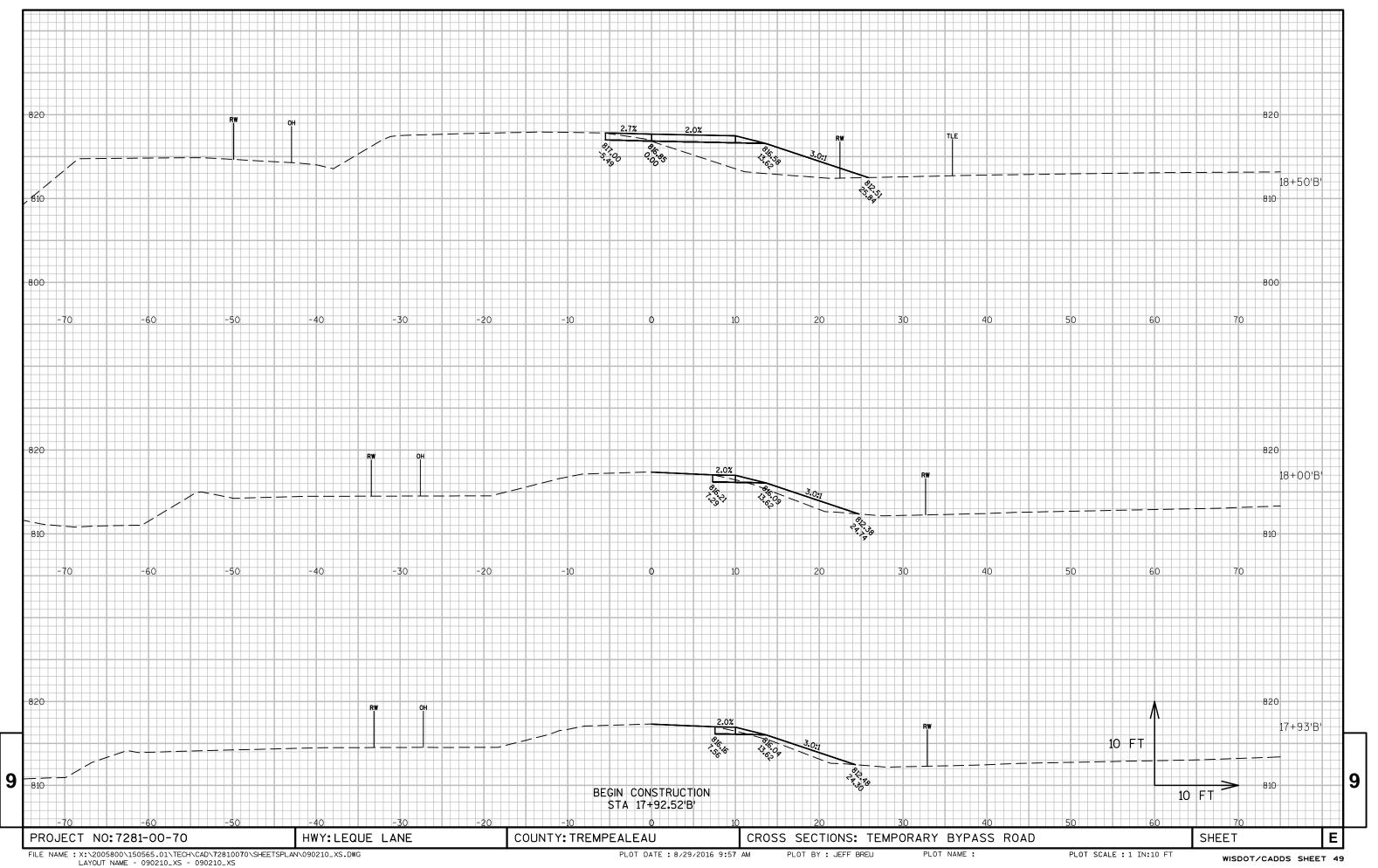
FILE NE : PLOT DATE : _____ PLOT BY : _____ PLOT NAME : ____ ORG DATE : ORIGINATOR : PLOT SCALE :

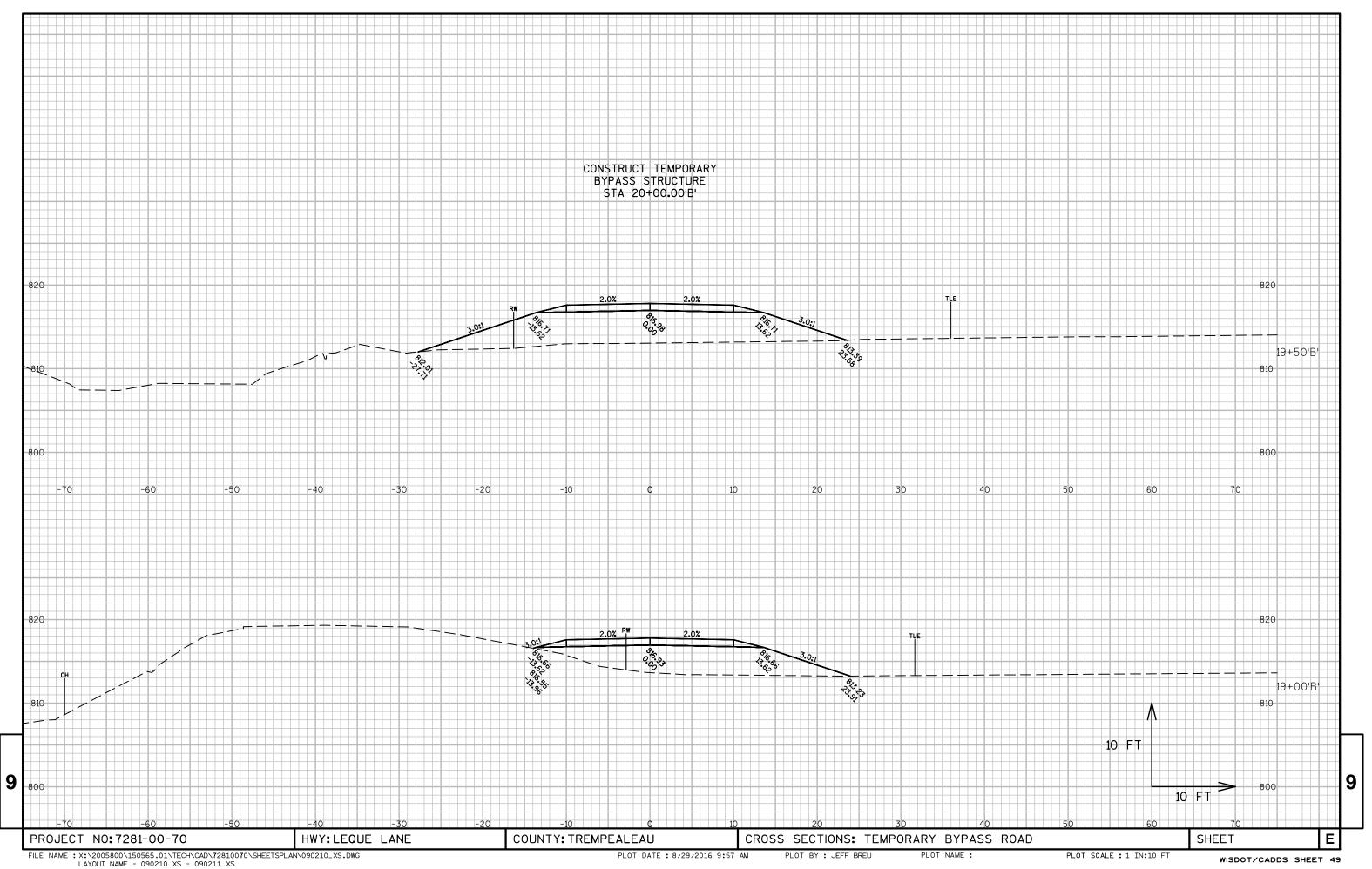


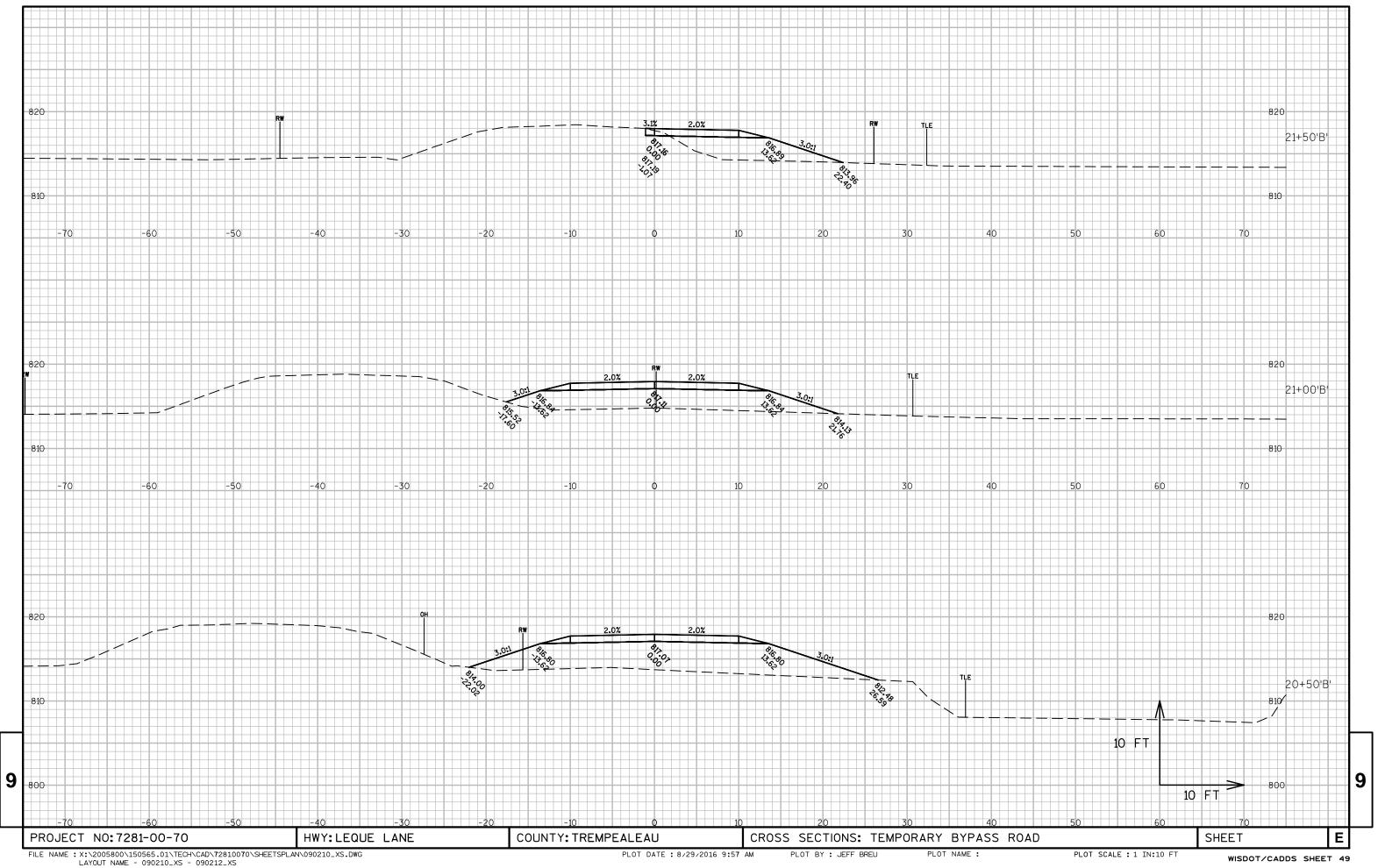


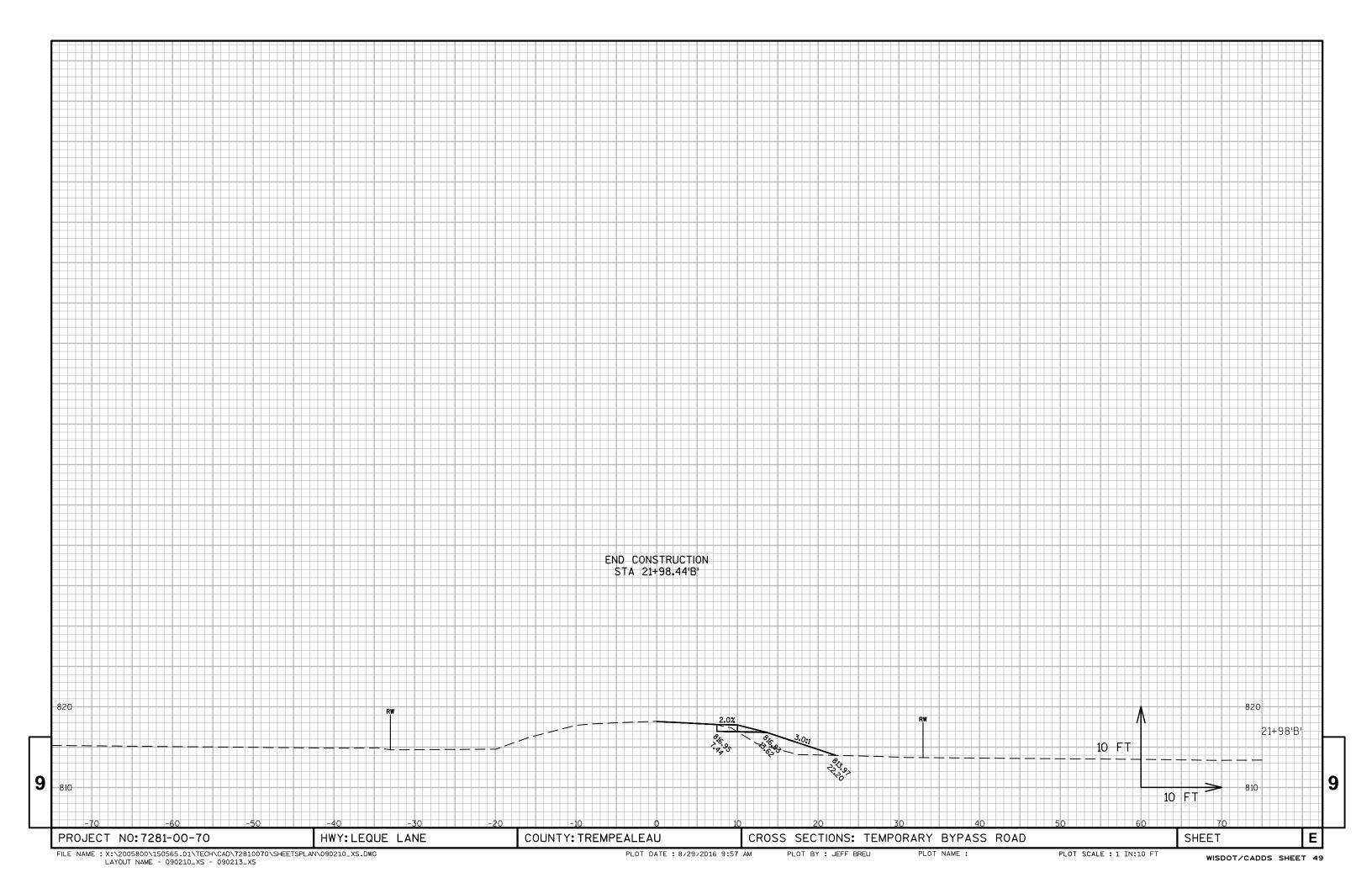












Notes



Wisconsin Department of Transportation

Dedicated people creating transportation solutions through innovation and exceptional service.

http://www.dot.wisconsin.gov

FEB 2017

ORDER OF SHEETS

Typical Sections and Details

Estimate of Quantitles

Plan and Profile Standard Detail Drawings

Structure Plans

Cross Sections

Sign Plates

Miscellaneous Quantitles Right of Way Plat

Computer Earthwork Data

Section No. 1

Section No. 2

Section No. 3

Section No. 3

Section No. 9

Section No. 9

DESIGN DESIGNATION A.A.D.T. (2016) = 20

(2036) = 30

= 50/50 = 7%

= 25 MPH

= N/A

(2036)

CONVENTIONAL SYMBOLS

LIMITED HIGHWAY EASEMENT

PROPOSED OR NEW R/W LINE

EXISTING RIGHT OF WAY

CORPORATE LIMITS

PROPERTY LINE

SLOPE INTERCEPT

REFERENCE LINE

EXISTING CULVERT

(Box or Pipe)

PROPOSED CULVERT

COMBUSTIBLE FLUIDS

A.A.D.T.

DESIGN SPEED

D.H.V.

ESALS

TOTAL SHEETS = 48

REMP Ш Ш

STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION

PLAN OF PROPOSED IMPROVEMENT

FEDERAL PROJECT STATE PROJECT PROJECT CONTRACT 7281-00-71 WISC 2017033

ACCEPTED FOR

ACCEPTED FOR

ORIGINAL PLANS PREPARED BY

15-36779 LA CROSSE

STATE OF WISCONSIN

DEPARTMENT OF TRANSPORTATION

Surveyor

Designer

T ETTRICK, NORDIE LANE

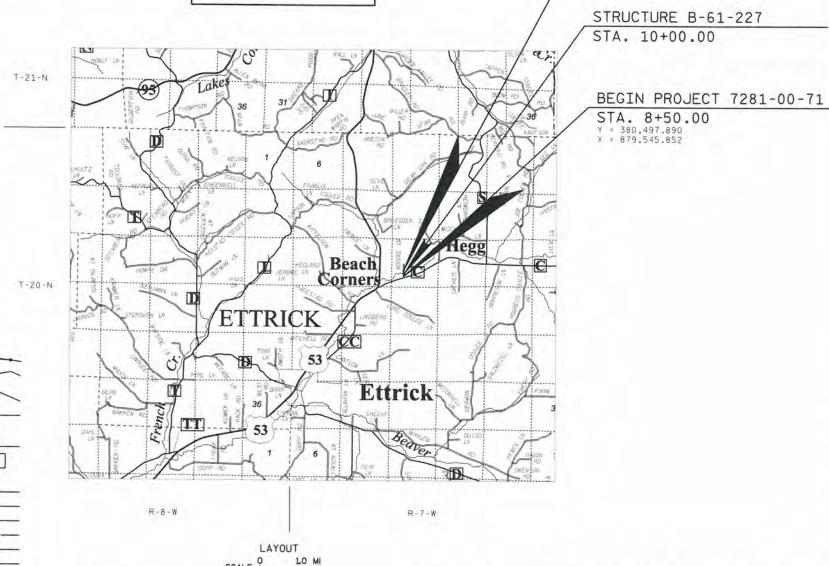
N FORK BEAVER CREEK B-61-0227

LOCAL STREET TREMPEALEAU COUNTY

> STATE PROJECT NUMBER 7281-00-71

END PROJECT 7281-00-71 STA. 11+50.00

Y = 380.797.747 X = 879.536.555



MARSH AREA HORIZONTAL POSITIONS SHOWN ON THIS PLAN ARE WISCONSIN COUNTY COORDINATES, TREMPEALEAU COUNTY, NAD83 (2011), IN U.S. SURVEY FEET, VALUES ARE GRID COORDINATES, GRID BEARINGS, AND GRID UTILITY PEDESTAL TOTAL NET LENGTH OF CENTERLINE = 0.057 MI POWER POLE WOODED OR SHRUB AREA DISTANCES. GRID DISTANCES MAY BE USED AS GROUND DISTANCES. TELEPHONE POLE

PROFILE

GRADE LINE

ORIGINAL GROUND

SPECIAL DITCH

UTILITIES

ELECTRIC

GAS

FIBER OPTIC

SANITARY SEWER

STORM SEWER

TELEPHONE WATER

GRADE ELEVATION

MARSH OR ROCK PROFILE (To be noted as such)

CULVERT (Profile View)

MEAD & HUNT

MEAD & HUNT

KNIGHT E/A, INC.

ELEVATIONS SHOWN ON THE PLANS ARE REFERENCED TO THE NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD88).

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

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

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

BEARINGS SHOWN ON THE PLANS ARE GRID BEARING TO NEAREST SECOND.

THE VERTICAL SAWCUT SHALL BE MADE THROUGH THE EXISTING PAVEMENT AT REMOVAL LIMITS.

4-INCH ASPHALTIC SURFACE SHALL BE CONSTRUCTED WITH A 1 3/4-INCH UPPER LAYER AND A 2 1/4-INCH LOWER LAYER.

SILT FENCE IS TO BE PLACED AS SHOWN ON THE PLANS OR AS DIRECTED BY THE ENGINEER, AND IN PLACE PRIOR TO BRIDGE REMOVAL. SILT FENCE IN WETLAND AREAS SHALL BE PLACED AT THE SLOPE INTERCEPT TO PREVENT DISTURBANCE OF WETLANDS.

SHRINKAGE IS ESTIMATED AT 25%.

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

TEMPORARY STORAGE OF ANY EXCAVATED MATERIALS WILL NOT BE PERMITTED IN THE WETLANDS.

WETLANDS ARE PRESENT WITHIN THE PROJECT LIMITS. DO NOT OPERATE EQUIPMENT OUTSIDE THE SLOPE INTERCEPTS.

DISTURBED AREA WITHIN THE RIGHT-OF-WAY, EXCEPT THE AREAS WITHIN THE FINISHED SHOULDER POINTS, ARE TO BE 4-INCH SALVAGED TOPSOIL, FERTILIZED, SEEDED AND MULCH.

UPON REMOVAL OF THE TEMPORARY BYPASS ROAD AND STRUCTURE, APPLY SEEDING MIXTURE NO. 60 TO AFFECTED WETLAND AREAS.

STANDARD ABBREVIATIONS

AVERAGE DAILY TRAFFIC MAINLINE AGGREGATE AGG NO NUMBER **ASPH** ASPHALTIC PΕ PRIVATE ENTRANCE ВМ BENCH MARK POINT OF INTERSECTION PΙ BOC BACK OF CURB PL PROPERTY LINE C&G CURB AND GUTTER PP POWER POLE CE COMMERCIAL ENTRANCE QTY QUANTITY CL CENTERLINE RIGHT-HAND FORWARD COR CORNER RT RIGHT CWT HUNDREDWEIGHT REFERENCE LINE R/L CY R/W RIGHT-OF-WAY CUBIC YARD DESIGN HOURLY VOLUME DHV SF SQUARE FOOT DWY DRIVEWAY SHLDR SHOULDER EL **ELEVATION** SS STORM SEWER EΧ STA EXISTING STATION EXC **EXCAVATION** SY SQUARE YARD FT TRUCKS (PERCENT OF) FOOT FTG TEL TELEPHONE FOOTING TEMPORARY LIMITED EASEMENT HYD HYDRANT TLE INV INVERT TYP **TYPICAL** LB UG UNDERGROUND CABLE POUND LF LINEAR FOOT VAR VARIABLE LHF LEFT-HAND FORWARD VERTICAL CURVE VC LUMP SUM VERTICAL POINT OF CURVE LS VPC VERTICAL POINT OF INTERSECTION LT LEFT Mgal MEGAGALLON VERTICAL POINT OF TANGENCY

<u>DNR</u>

WISCONSIN DEPARTMENT OF NATURAL RESOURSES 3550 MORMON COULEE ROAD LA CROSSE, WI 54601 ATTN: KAREN KALVELAGE PHONE: (608) 785-9115 EMAIL: KAREN.KALVELAGE@WISCONSIN.GOV

DESIGN CONSULTANT



MEAD & HUNT, INC. 750 NORTH THIRD STREET LA CROSSE, WI 54601 ATTN: JAY P. WHEATON, P.E. PHONE: (608) 784-6040 MOBILE: (608) 386-0212 EMAIL: JAY.WHEATON@MEADHUNT.COM

ORDER OF SECTION 2 SHEETS

TYPICAL SECTIONS

UTILITIES

** RIVERLAND ENERGY 625 WEST MAIN STREET P.O. BOX 277 ARCADIA, WI 54612-0277 ATTN: ROB SOSALLA PHONE: (608) 863-2377 EMAIL: RSOSALLA@RIVERLANDENERGY.COM

** CENTURYLINK 333 NORTH FRONT STREET LA CROSSE, WI 54601 ATTN: TOM MURRAY PHONE: (608) 780-0895 EMAIL: TOM.I.MURRAY@CENTURYLINK.COM

** THESE ARE MEMBERS OF DIGGERS HOTLINE

TREMPEALEAU COUNTY

TREMPEALEAU COUNTY HIGHWAY COMMISSIONER N36258 CTH QQ P.O. BOX 97 WHITEHALL, WI 54773 ATTN: DAVE LYGA PHONE: (715) 538-4799 EMAIL: TCHWY@TRIWEST.NET



PROJECT NO: 7281-00-71

HWY: NORDIE LANE

COUNTY: TREMPEALEAU

GENERAL NOTES

PLOT BY : JEFF BREU

SHEET

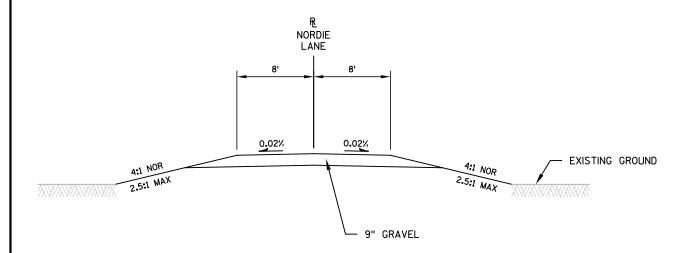
Ε

FILE NAME : X:\2005800\150564.01\TECH\CAD\72810071\SHEETSPLAN\020101_GN.DWG

PLOT DATE: 9/8/2016 3:36 PM

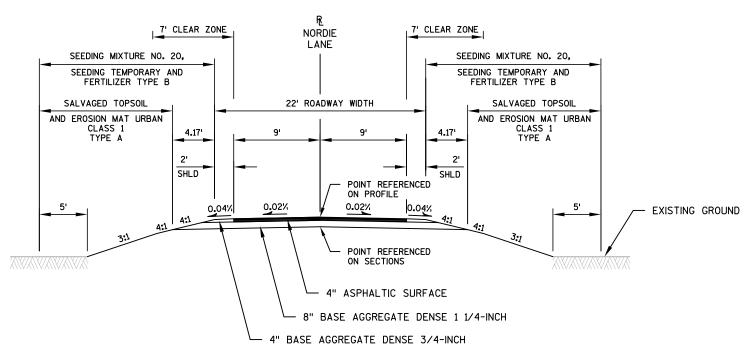
PLOT NAME :





EXISTING TYPICAL SECTION

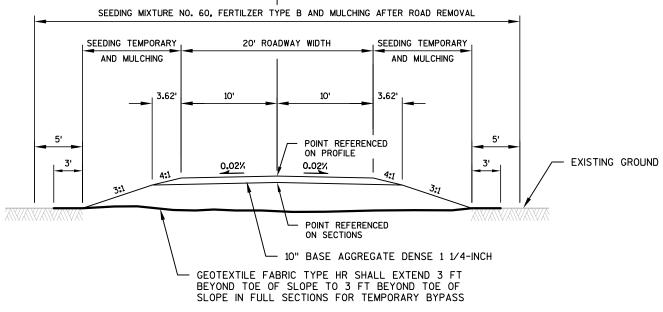
STA 8+50.00T0 STA 9+76.00 STA 10+24.00 TO STA 11+50.00



PROPOSED TYPICAL SECTION

STA 8+50.00 TO STA 9+68.75 STA 10+31.25 TO STA 11+50.00





PROPOSED TYPICAL SECTION TEMPORARY BYPASS ROAD

STA 18+07.46'B' TO STA 21+94.31'B'

PROJECT NO:7281-00-71 HWY:NORDIE LANE COUNTY:TREMPEALEAU TYPICAL SECTIONS SHEET **E**

				Estima	te Of Quantities By Plan Sets	Page
					7281-00-71	
Line	Item	Item Description	Unit	Total	Qty	
0010	201.0105	Clearing	STA	2.000	2.000	
0020	201.0205	Grubbing	STA	2.000	2.000	
0040	203.0600.S	Removing Old Structure Over Waterway With Minimal Debris (station) 02. 10+00	LS	1.000	1.000	
0050	205.0100	Excavation Common	CY	1,072.000	1,072.000	
0070	206.1000	Excavation for Structures Bridges (structure) 02. B-61-227	LS	1.000	1.000	
0800	208.0100	Borrow	CY	1,110.000	1,110.000	
0090	210.1500	Backfill Structure Type A	TON	150.000	150.000	
0110	213.0100	Finishing Roadway (project) 02. 7281-00-71	EACH	1.000	1.000	
0120	305.0110	Base Aggregate Dense 3/4-Inch	TON	38.000	38.000	
0130	305.0120	Base Aggregate Dense 1 1/4-Inch	TON	725.000	725.000	
0160	455.0605	Tack Coat	GAL	38.000	38.000	
)170	465.0105	Asphaltic Surface	TON	120.000	120.000	
)180	502.0100	Concrete Masonry Bridges	CY	167.000	167.000	
190	502.3200	Protective Surface Treatment	SY	240.000	240.000	
200	505.0400	Bar Steel Reinforcement HS Structures	LB	4,280.000	4,280.000	
210	505.0600	Bar Steel Reinforcement HS Coated Structures	LB	22,990.000	22,990.000	
230	513.4061	Railing Tubular Type M (structure) 02. B-61-227	LF	170.000	170.000	
240	516.0500	Rubberized Membrane Waterproofing	SY	16.000	16.000	
260	526.0100	Temporary Structure (station) 02. 20+00	LS	1.000	1.000	
270	550.2104	Piling CIP Concrete 10 3/4 X 0.25-Inch	LF	880.000	880.000	
280	606.0300	Riprap Heavy	CY	130.000	130.000	
290	612.0406	Pipe Underdrain Wrapped 6-Inch	LF	114.000	114.000	
300	619.1000	Mobilization	EACH	0.500	0.500	
310	625.0500	Salvaged Topsoil	SY	1,100.000	1,100.000	
320	627.0200	Mulching	SY	1,550.000	1,550.000	
0330	628.1504	Silt Fence	LF	600.000	600.000	
0340	628.1520	Silt Fence Maintenance	LF	1,200.000	1,200.000	
0350	628.1905	Mobilizations Erosion Control	EACH	4.000	4.000	
0360	628.1910	Mobilizations Emergency Erosion Control	EACH	2.000	2.000	
0370	628.2006	Erosion Mat Urban Class I Type A	SY	1,100.000	1,100.000	
380	628.6005	Turbidity Barriers	SY	320.000	320.000	
390	628.7504	Temporary Ditch Checks	LF	50.000	50.000	
)400	629.0210	Fertilizer Type B	CWT	1.900	1.900	
0410	630.0120	Seeding Mixture No. 20	LB	49.000	49.000	
0420	630.0160	Seeding Mixture No. 60	LB	15.000	15.000	
0430	630.0200	Seeding Temporary	LB	42.000	42.000	
0440	633.1100	Delineators Temporary	EACH	30.000	30.000	
0450	634.0614	Posts Wood 4x6-Inch X 14-FT	EACH	4.000	4.000	

Estimate Of Quantities By Plan Sets

Page 2

7004	\sim	0 74	
7281	-()()-/T	

Line	Item	Item Description	Unit	Total	Qty
0460	637.2230	Signs Type II Reflective F	SF	12.000	12.000
0470	638.2602	Removing Signs Type II	EACH	4.000	4.000
0480	638.3000	Removing Small Sign Supports	EACH	4.000	4.000
0490	642.5001	Field Office Type B	EACH	0.500	0.500
0510	643.0100	Traffic Control (project) 02. 7281-00-71	EACH	1.000	1.000
0520	643.0300	Traffic Control Drums	DAY	2,100.000	2,100.000
0530	643.0420	Traffic Control Barricades Type III	DAY	280.000	280.000
0540	643.0705	Traffic Control Warning Lights Type A	DAY	560.000	560.000
0550	643.0715	Traffic Control Warning Lights Type C	DAY	1,400.000	1,400.000
0560	643.0900	Traffic Control Signs	DAY	1,820.000	1,820.000
0570	645.0120	Geotextile Type HR	SY	1,350.000	1,350.000
0580	650.4500	Construction Staking Subgrade	LF	586.000	586.000
0590	650.5000	Construction Staking Base	LF	586.000	586.000
0610	650.6500	Construction Staking Structure Layout (structure) 02. B-61-227	LS	1.000	1.000
0630	650.9910	Construction Staking Supplemental Control (project) 02. 7281-00-71	LS	1.000	1.000
0640	650.9920	Construction Staking Slope Stakes	LF	586.000	586.000
0660	715.0502	Incentive Strength Concrete Structures	DOL	1,002.000	1,002.000
0670	ASP.1T0A	On-the-Job Training Apprentice at \$5.00/HR	HRS	1,200.000	1,200.000
0680	ASP.1T0G	On-the-Job Training Graduate at \$5.00/HR	HRS	300.000	300.000

	EARTHWORK SUMMARY											
FROM/TO STATION	LOCATION	205.0100 COMMON EXCAVATION CUT (1)	SALVAGED/ UNUSABLE PAVEMENT MATERIAL	AVAILABLE MATERIAL (2)	UNEXPANDED FILL	EXPANDED FILL (FACTOR 1.25)	MASS ORDINATE +/- (3)	WASTE	208.0100 BORROW			
18+07.46'B' - 21+94.31'B'	TEMPORARY BYPASS ROAD (CONSTRUCTION)	4	0	4	845	1056	-1052	-	1,052			
8+50 - 11+50'	M/L	163	0	163	177	221	-58	-	58			
18+07.46'B' - 21+94.31'B'	TEMPORARY BYPASS ROAD (REMOVE)	905	0	905	0	0	905	905	-			
		1,072		•		TO [*]	TAL	905	1,110			

-) SALVAGED/UNUSABLE PAVEMENT MATERIAL IS INCLUDED
- (2) AVAILABLE MATERIAL = CUT SALVAGED/UNUSABLE PAVEMENT MATERIAL
- (3) THE MASS ORDINATE + OR QUANTITY CALCULATED. PLUS QUANTITY INDICATES AS EXCESS OF MATERIAL. MINUS INDICATES A SHORTAGE OF MATERIAL.

STATION TO STATION LOCATION STA STA 9+00 11+00 M/L 2 2 TOTAL 2 2

BASE AGGREGATE DENSE

			TOTAL	38	725
18+07.46'B'	-	21+94.31"B'	TEMPORARY BYPASS ROAD	-	395
10+31.25	-	11+50	M/L	19	165
8+50	-	9+68.75	M/L	19	165
STATION	TO	STATION	LOCATION	TON	TON
				3/4 INCH	1-1/4 INCH
				DENSE	DENSE
				AGGREGATE	AGGREGATE
				BASE	BASE
				305.0110	305.0120

ASPHALT SUMMARY

					455.0605	465.0105
					TACK	ASPHALTIC
					COAT	SURFACE
_	STATION	TO	STATION	LOCATION	GAL	TON
_	8+50	-	9+68.75	M/L	19	60
_	10+31.25	-	11+50	M/L	19	60
-				TOTAL	38	120

TACK COAT ESTIMATED AT 0.07 GAL/SY

LANDSCAPING ITEMS

						628.2006					
						EROSION MAT	•	630.0120	630.0160		
				625.0500		URBAN	629.0210	SEEDING	SEEDING	630.0200	
				SALVAGED	627.0200	CLASS I	FERTILIZER	MIXTURE	MIXTURE	SEEDING	
				TOPSOIL	MULCHING	TYPE A	TYPE B	NO. 20	NO. 60	TEMPORARY	
STATION	TO	STATION	LOCATION	SY	SY	SY	CWT	LB	LB	LB	REMARKS
8+50	-	9+68.75	M/L, LT & RT	275	-	275	0.3	11	-	6	
10+31.25	-	11+50	M/L, LT & RT	325	-	325	0.4	13	-	6	
18+07.46'B'	-	21+94.31'B'	TEMPORARY BYPASS ROAD	-	625	-	-	-	-	17	CONSTRUCT TEMPORARY BYPASS ROAD
18+07.46'B'	-	21+94.31'B'	TEMPORARY BYPASS ROAD	-	925	-	0.7	-	15	-	REMOVE TEMPORARY BYPASS ROAD
		BORROW	SITES	500	-	500	0.5	25	-	13	
			TOTAL	1,100	1,550	1,100	1.9	49	15	42	

SILT FENCE

		628.1504 SILT FENCE	628.1520 SILT FENCE MAINTENANCE
STATION TO STATION	LOCATION	LF	LF
8+50 - 9+68.75	M/L, LT & RT	300	600
10+31.25 - 11+50	M/L, LT & RT	180	360
UNDISTRIBUTED	VARIOUS	120	240
	TOTAL	600	1,200

TURBIDITY BARRIERS

	628.6005
	TURBIDITY
	BARRIERS
LOCATION	SY
M/L	150
M/L	170
TOTAL	320
	M/L M/L

MOBILIZATION

619.1000

	0.4.75.0.00\/	0747I0N TO 0747I0N	LOCATION	MOBILIZATION
_	CATEGORY	STATION TO STATION	LOCATION	EACH
7	0010	PROJECT	M/L	0.125
_	0020	PROJECT	M/L	0.375
			TOTAL	0.500

NOTE: ALL ITEMS ARE CATEGORY 0010 UNLESS NOTED AS 0020.

		PROJECT NO: 7281-00-71	HWY: NORDIE LANE	COUNTY: TREMPEALEAU	MISCELLANEOUS QUANTITIES	SHEET NO:	E	
--	--	------------------------	------------------	---------------------	--------------------------	-----------	---	--

FILE NE : PLOT DATE : _____ PLOT BY : _____ PLOT NAME : ____ ORG DATE : ORIGINATOR : PLOT SCALE :

1)
•	J

		TOTAL	4	2	50
	UNDISTRIBUTED	VARIOUS	4	2	10
1	0+26.44 - 11+50 ľ	M/L, LT & RT	-	-	30
	8+50 - 9+63.56 M	M/L, LT & RT	-	-	10
S	TATION TO STATION	LOCATION	EACH	EACH	LF
			CONTROL	CONTROL	CHECKS
			EROSION	EROSION	DITCH
			MOBILIZATIONS	EMERGENCY	TEMPORARY
			628.1905	MOBILIZATIONS	628.7504
				628.1910	

			SIGNING	<u>ì</u>		
				638.2602	638.3000	
		634.0614	637.2230	REMOVING	REMOVING	
		POSTS WOOD	SIGNS TYPE II	SIGNS	SMALL SIGN	
		4x6-INCH x 14-FT	REFLECTIVE F	TYPE II	SUPPORTS	
STATION	LOCATION	EACH	SF	EACH	EACH	COMMENTS
9+58	M/L, LT	1	3	-	-	W5-52L
9+58	M/L, RT	1	3	-	-	W5-52R
9+74	M/L, LT	-	-	1	1	
9+74	M/L, RT	-	-	1	1	
10+27	M/L, LT	-	-	1	1	
10+27	M/L, RT	-	-	1	1	
10+42	M/L, LT	1	3	-	-	W5-52R
10+42	M/L, RT	1	3	-	-	W5-52L
	TOTAL	4	12	4	4	

TRAFFIC CONTROL ITEMS

TOTAL	20	2 100	200	E60	1 400	1 000		
	30	2100	280	560	1,400	1,820	70 DAYS	
	EACH	DAY	DAY	DAY	DAY	DAY	REMARKS	
	TEMPORARY	DRUMS	TYPE III	TYPE A	TYPE C	SIGNS		
	DELINEATORS	CONTROL	BARRICADES	LIGHTS	LIGHTS	CONTROL		
	633.1100	TRAFFIC	CONTROL	WARNING	WARNING	TRAFFIC		
		643.0300	TRAFFIC	CONTROL	CONTROL	643.0900		
			643.0420	TRAFFIC	TRAFFIC			
				643.0705	643.0715			

GEOTEXTILE FABRIC

				645.0120
				GEOTEXTILE
				FABRIC
				TYPE HR
STATION	TO	STATION	LOCATION	LF
10+07.45'B'	-	21+94.31'B'	TEMPORARY BYPASS RD	1050
			TOTAL	1,050

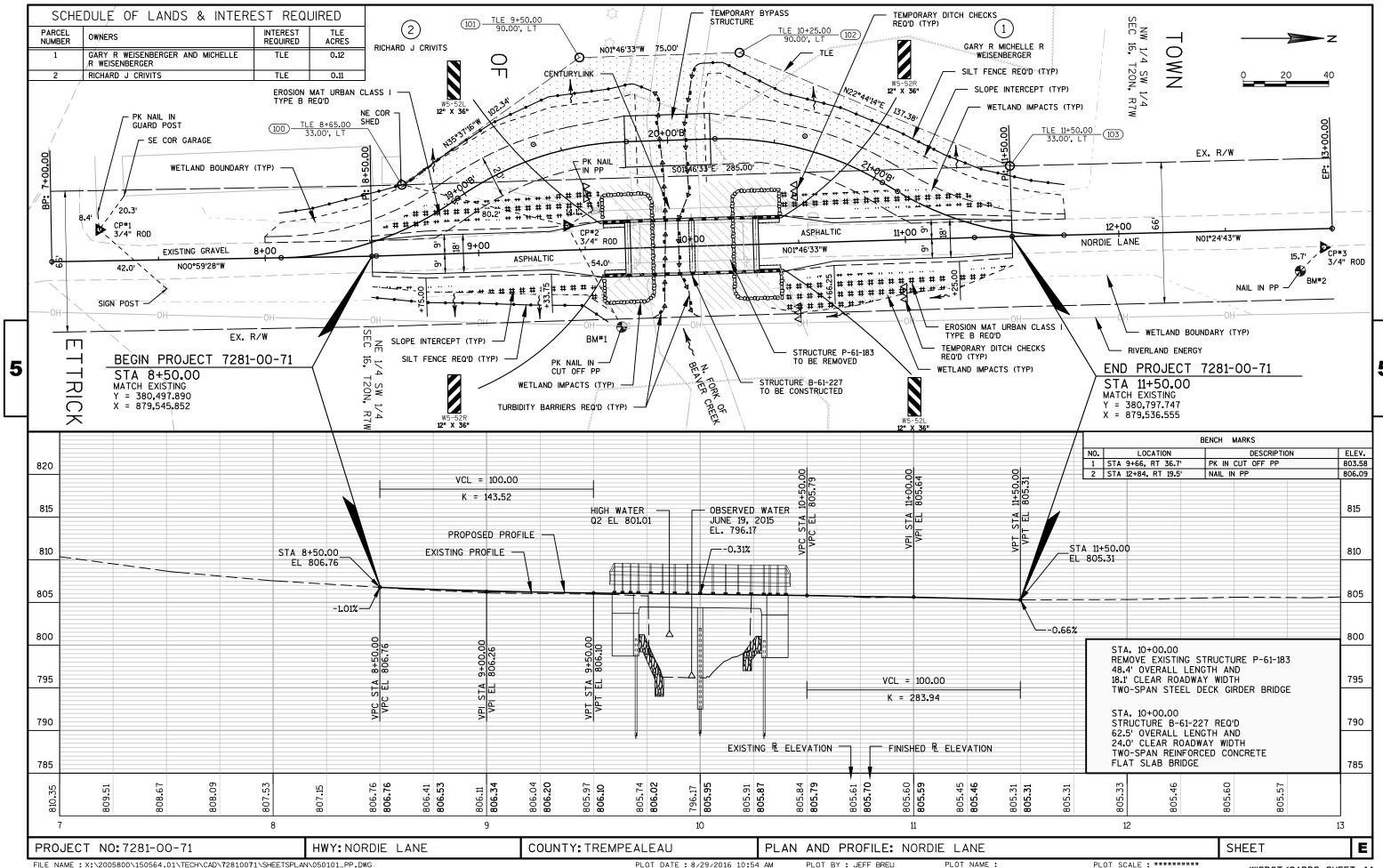
CONSTRUCTION STAKING

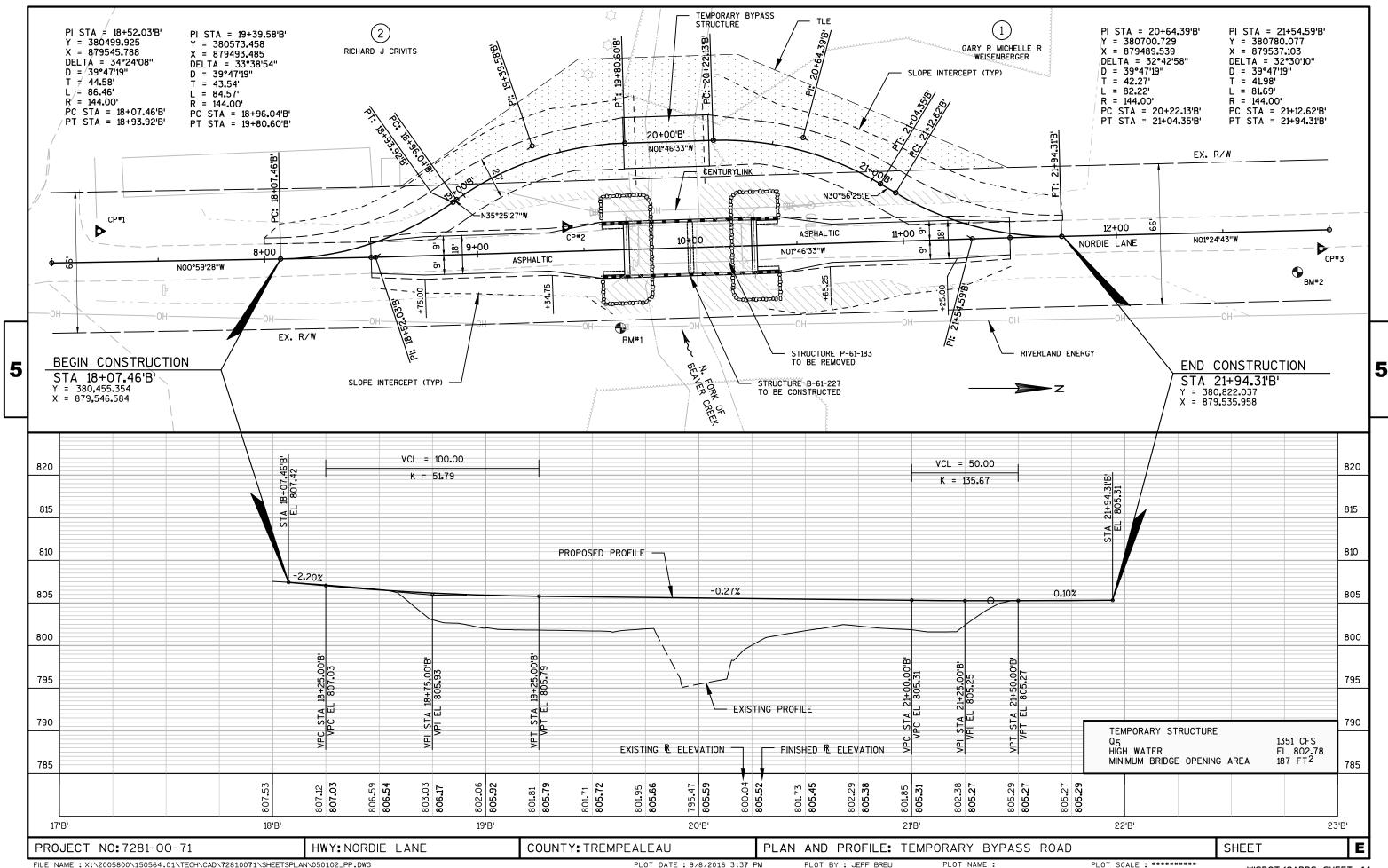
				TOTAL	586	586	1	1	586
0010	PF	ROJE	CT	M/L	-	-	-	1	-
0020	1	10+00)	M/L	-	-	1	-	-
0010	20+20'B'		21+94.31'B'	TEMPORARY BYPASS ROAD	175	175	-	-	175
0010	18+07.46'B'	-	19+80'B'	TEMPORARY BYPASS ROAD	173	173	-	-	173
0010	10+31.25	-	11+50	M/L	119	119	-	-	119
0010	8+50	-	9+68.75	M/L	119	119	-	-	119
CATEGORY	STATION	TO	STATION	LOCATION	LF	LF	LS	LS	LF
					SUBGRADE	BASE	(B-61-0227)	(PROJECT)	STAKES
					STAKING	STAKING	LAYOUT	CONTROL	SLOPE
					CONSTRUCTION	CONSTRUCTION	STRUCTURE	SUPPLEMENTAL	STAKING
					650.4500	650.5000	STAKING	STAKING	CONSTRUCT
							CONSTRUCTION	CONSTRUCTION	650.9920
							650.6500	650.9910	

NOTE: ALL ITEMS ARE CATEGORY 0010 UNLESS NOTED AS 0020.

PROJECT NO: 7281-00-71	HWY: NORDIE LANE	COUNTY: TREMPEALEAU	MISCELLANEOUS QUANTITIES	SHEET NO:	E

FILE NE : PLOT DATE : _____ PLOT BY : _____ PLOT NAME : ____ ORG DATE : ORIGINATOR : PLOT SCALE :





Standard Detail Drawing List

08E08-03	TYPICAL INSTALLATIONS OF EROSION BALES / TEMPORARY DITCH CHECKS
08E09-06	SILT FENCE
08E11-02	TURBI DI TY BARRI ER
13A03-06	CONCRETE PAVEMENT SHOULDERS
13B02-08A	CONCRETE PAVEMENT APPROACH SLAB
13B02-08B	STRUCTURAL APPROACH SLAB AND CONCRETE PAVEMENT APPROACH SLAB
13C18-03A	CONCRETE PAVEMENT JOINTING
13C18-03B	CONCRETE PAVEMENT STEEL REINFORCEMENT
13C18-03C	CONCRETE PAVEMENT JOINT TIES
13C18-03D	CONCRETE PAVEMENT JOINTING AT UTILITY FIXTURES
15A02-09	DELINEATOR POST, DELINEATOR REFLECTOR AND DELINEATOR BRACKET WITH REFLECTIVE SHEETING
15C05-03	TRAFFIC CONTROL, ADVANCE WARNING SIGNS 40 M.P.H. OR LESS
15D31-03	TRAFFIC CONTROL, TEMPORARY BYPASS ROADWAY

6

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

Ō Ö

 ∞ ∞ Ω

Δ

TYPICAL APPLICATION OF SILT FENCE

6

b

Ō

Ш





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

6

٥

D.D. 8 E 9

6

Ū

Ō

GENERAL NOTES

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

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

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





SECTION C-C

TURBIDITY BARRIER DETAIL SHOWING TYPICAL PLACEMENT AT STRUCTURES

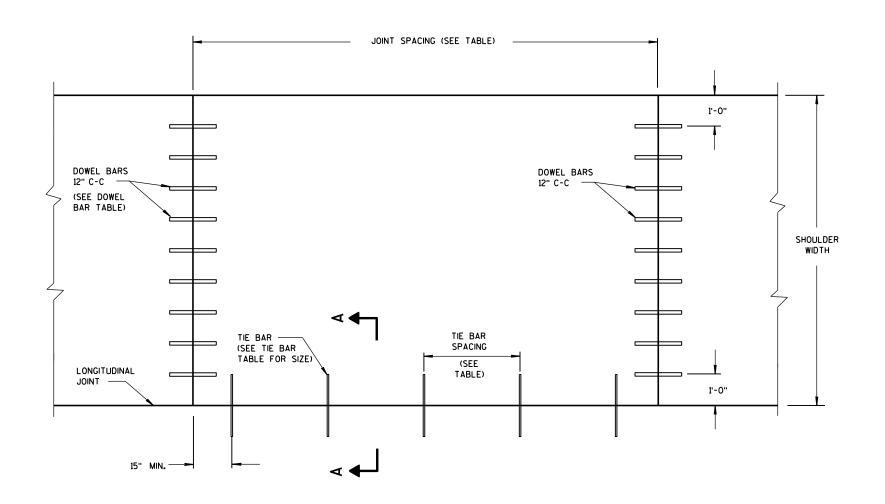
TURBIDITY BARRIER

STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION

APPROVED

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

Ω



PLAN VIEW CONCRETE PAVEMENT SHOULDER

TIE BAR TABLE

PAVEMENT DEPTH (D)	TIE BAR Size	TIE BAR LENGTH (L)	MAX. TIE BAR Spacing
< 10 1/2"	NO. 4	30"	36"
≥ 10 ½"	NO. 5	36"	36"
2 10 72	NO. 4 *	30"	24"**

* SUBSTITUTE BENT BARS AT LONGITUDINAL JOINTS WHEN EQUIPMENT LIMITATIONS DURING CONSTRUCTION WARRANT (e.g. AUXILIARY LANES OR TURN LANES)

** CONFORM TO 15" MINUMUM SPACING FROM TRANSVERSE JOINTS; SPACING BETWEEN TIE BARS WILL BE 30" AT TRANSVERSE JOINTS.

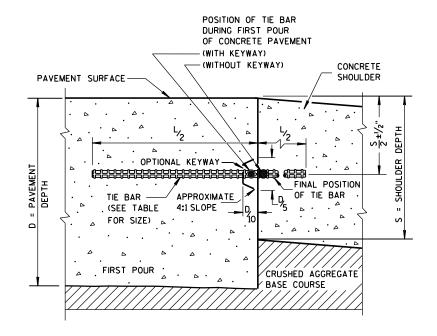
GENERAL NOTES

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.

TRANSVERSE JOINT DETAILS ARE SHOWN ELSEWHERE IN THE PLAN.

FINISH THE SHOULDER PAVEMENT CONFORMING TO SUBSECTION 415.3.8 OF THE STANDARD SPECIFICATIONS.

TIE BARS SHALL CONFORM TO SUBSECTION 505.2.4 OF THE STANDARD SPECIFICATIONS.



SECTION A-A LONGITUDINAL CONSTRUCTION JOINT

PAVEMENT DEPTH, DOWEL BAR SIZE AND JOINT SPACING TABLE

PAVEMENT DEPTH (D)	DOWEL BAR DIAMETER***	CONTRACTION JOINT SPACING
5 ½", 6", 6 ½"	NONE	12'
7", 7 ½"	1"	14'
8", 8 ½"	1 1/4"	15'
9", 9 ½"	1 1/4"	15'
10" & ABOVE	11/2"	15'

FOR DOWELED CONCRETE SHOULDERS WITH TRAPEZOIDAL CROSS SECTIONS, CHOSE THE APPROPRIATE DOWEL BAR DIAMETER BASED ON THE SMALLER PAVEMENT DEPTH (LIKELY THE OUTSIDE EDGE OF THE SHOULDER). IF USING BASKETS, USE BASKETS FOR THE AVERAGE THICKNESS OF THE CROSS SECTION.

CONCRETE	PAVEMENT	SHOULDERS

6

က

Þ

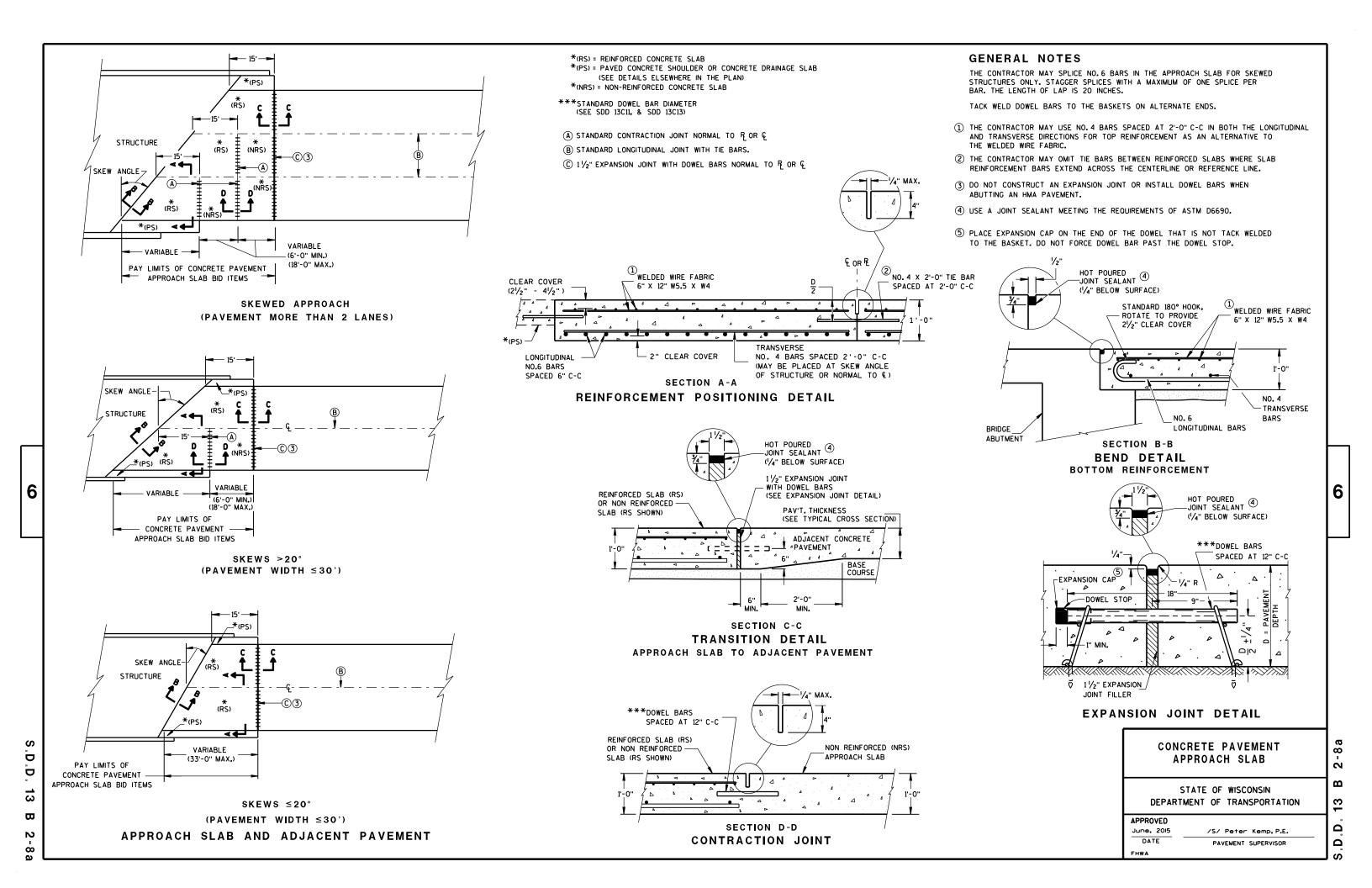
13

Ω

Ω

STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION

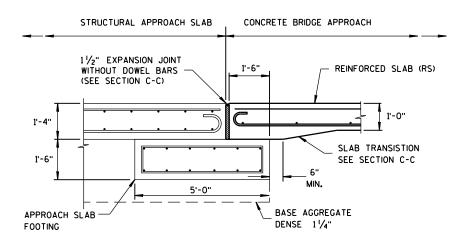
APPROVED			
June, 2015	/S/ Peter Kemp, P.E.		
DATE	PAVEMENT SUPERVISOR		



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

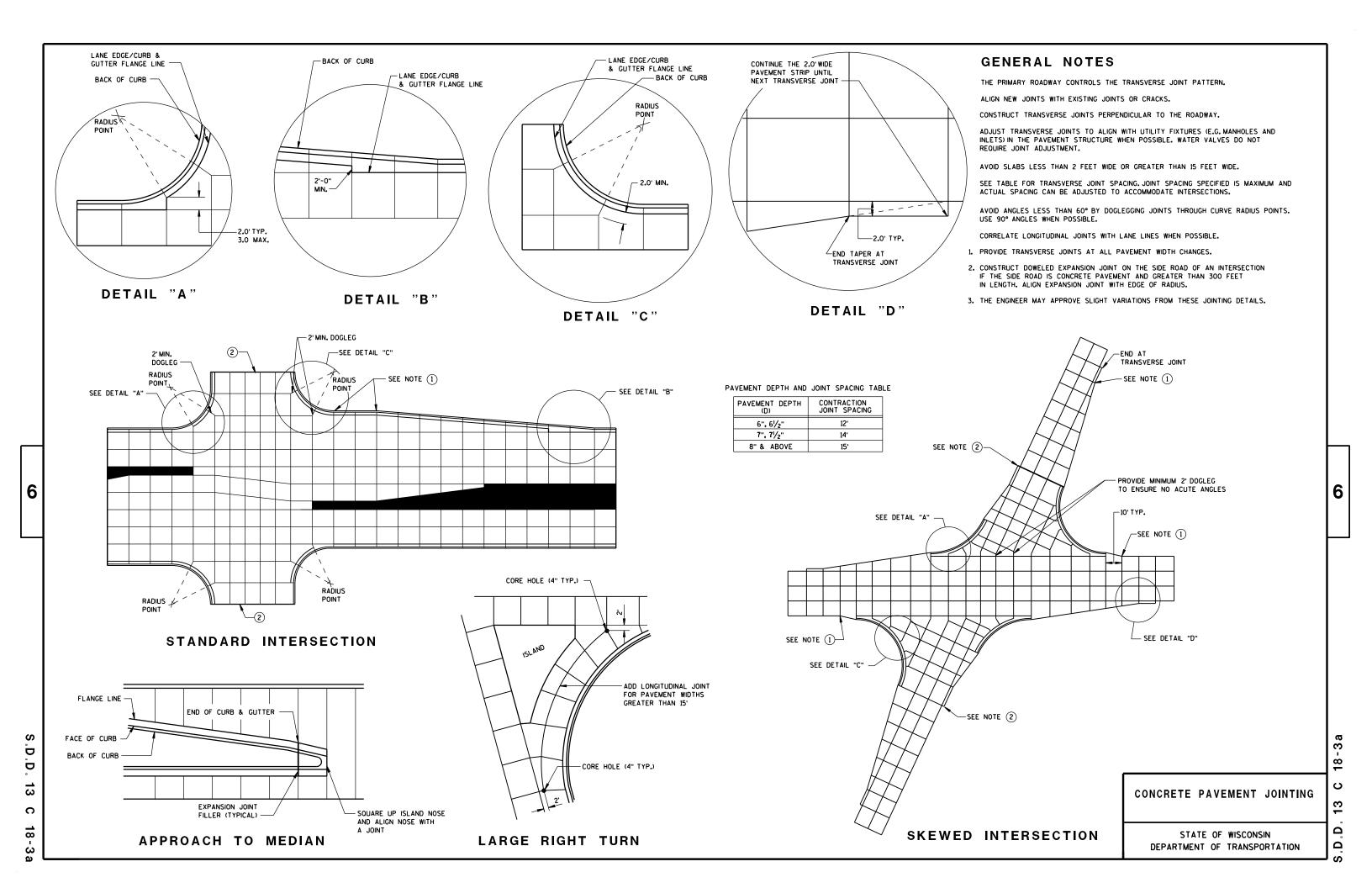
6

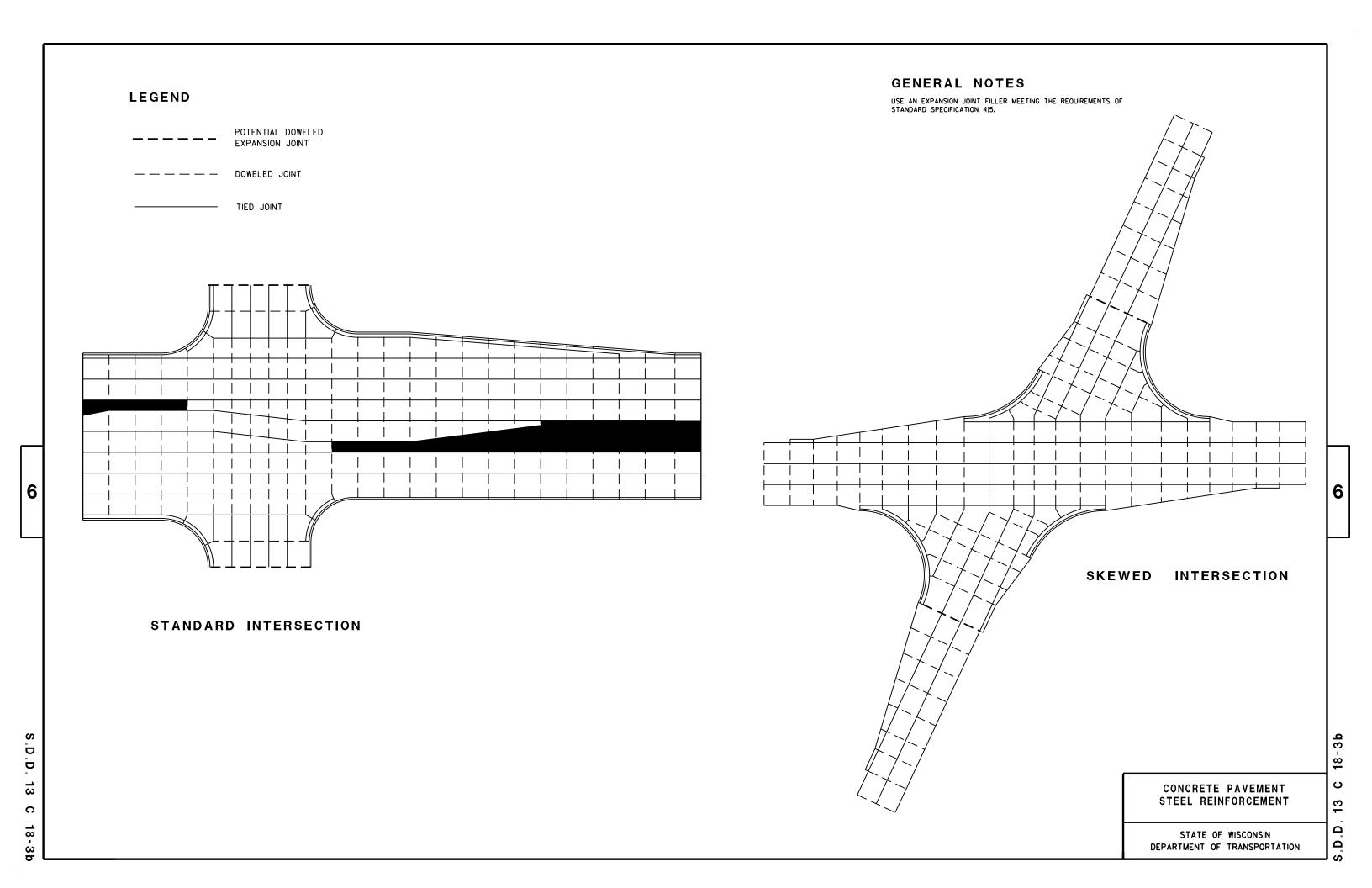
.D.D. 13

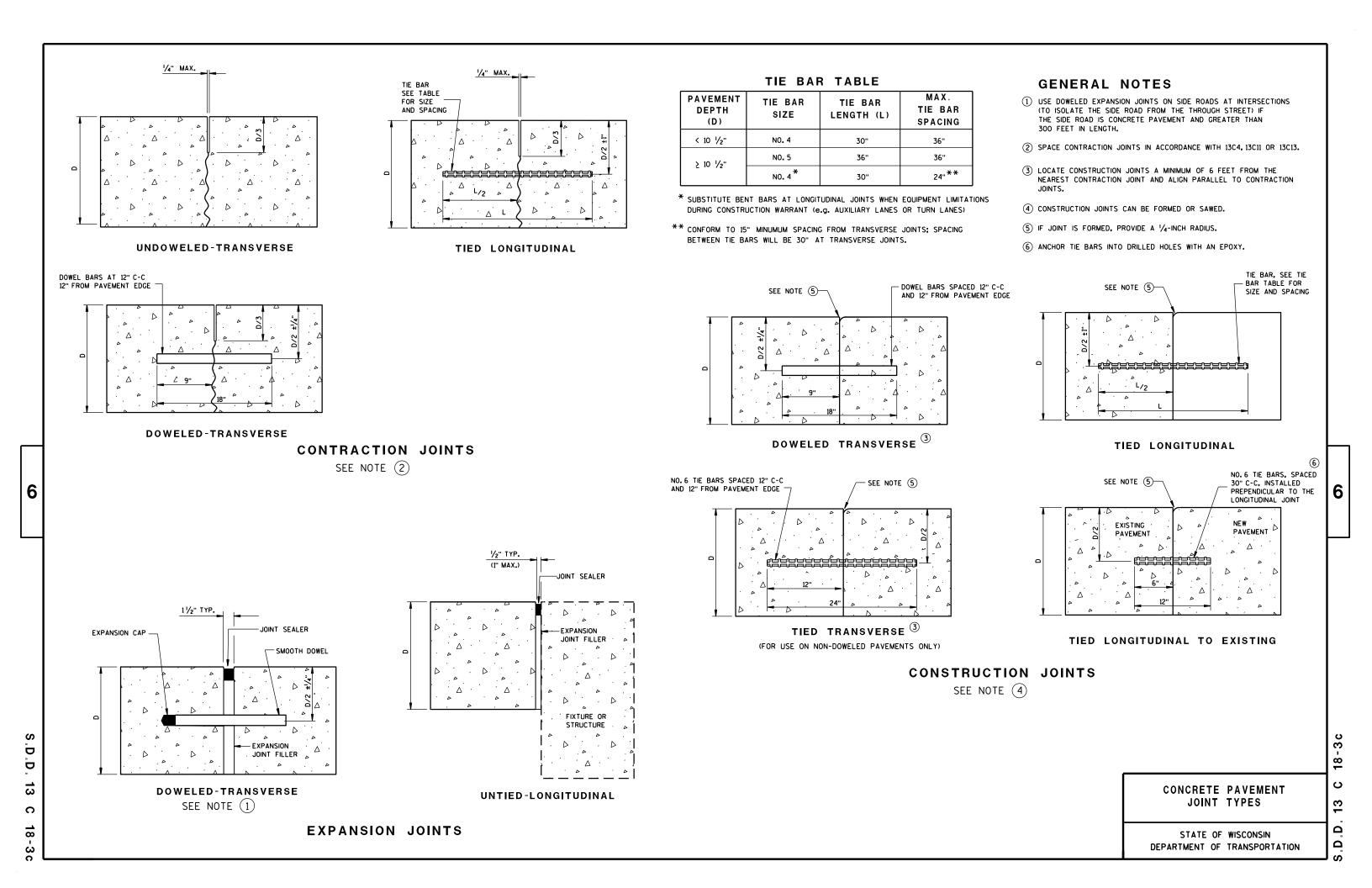
8

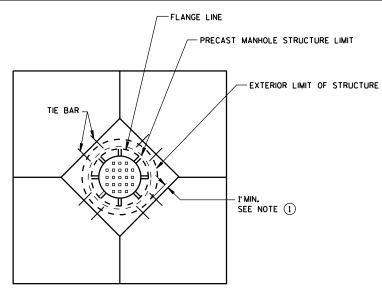
 \mathbf{a}

6

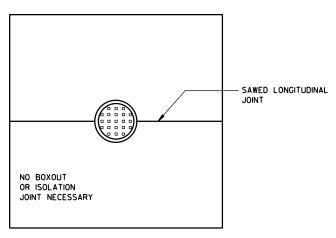




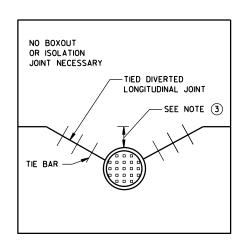




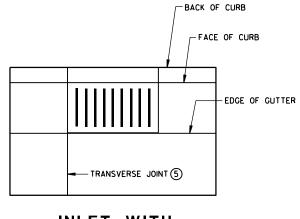
DIAGONAL MANHOLE BOXOUT FOR CONSTRUCTION JOINTS



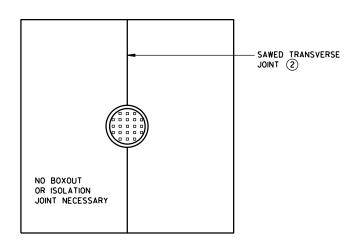
MANHOLE WITH LONGITUDINAL JOINT



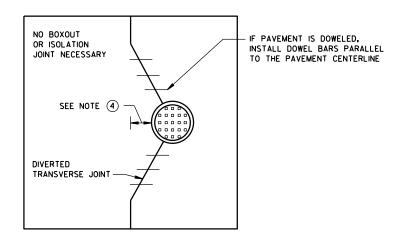
MANHOLE WITH DIVERTED LONGITUDINAL CONTRACTION JOINT



INLET WITH TRANSVERSE JOINT



MANHOLE WITH TRANSVERSE JOINT



MANHOLE WITH DIVERTED TRANSVERSE CONTRACTION JOINT

- 1 USE BOXOUTS WHEN UTILITY STRUCTURE IS IN THE PATH OF CONSTRUCTION JOINTS. PROVIDE A 1-FOOT MINIMUM CLEARANCE BETWEEN THE EXTERIOR LIMIT OF THE STRUCTURE TO THE DIAMOND BOXOUT.
- 2 ADJUST TRANSVERSE JOINT TO INTERSECT MANHOLE IF POSSIBLE.
- (3) IF DISTANCE BETWEEN THE LONGITUDINAL JOINT AND THE EDGE OF MANHOLE IS 2 FEET OR LESS. DIVERT THE LONGITUDIAL JOINT AT A 2:1 TAPER RATE TO THE CENTER OF THE MANHOLE. IF THE DISTANCE IS GREATER THAN 2 FEET, DO NOT DIVERT THE JOINT AND SAW AS NORMAL. PLACE REBAR REINFORCEMENT AROUND THE MANHOLE.
- (4) IF DISTANCE FROM THE EDGE OF THE MANHOLE TO THE NEAREST TRANSVERSE JOINT IS 4 FEET OR LESS. REDIRECT JOINT TO INTERSECT THE CENTER OF THE MANHOLE. IF DISTANCE IS GREATER THAN 4 FEET, DO NOT DIVERT THE JOINT AND SAW AS NORMAL. PLACE REBAR REINFORCEMENT AROUND THE MANHOLE.
- (5) ALIGN TRANSVERSE JOINT WITH ONE EDGE OF INLET WHEN PRACTICAL.

CONCRETE PAVEMENT JOINTING AT UTILITY FIXTURES

STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION

APPROVED DATE

/S/ Peter Kemp, P.E. PAVEMENT SUPERVISOR FHWA

8

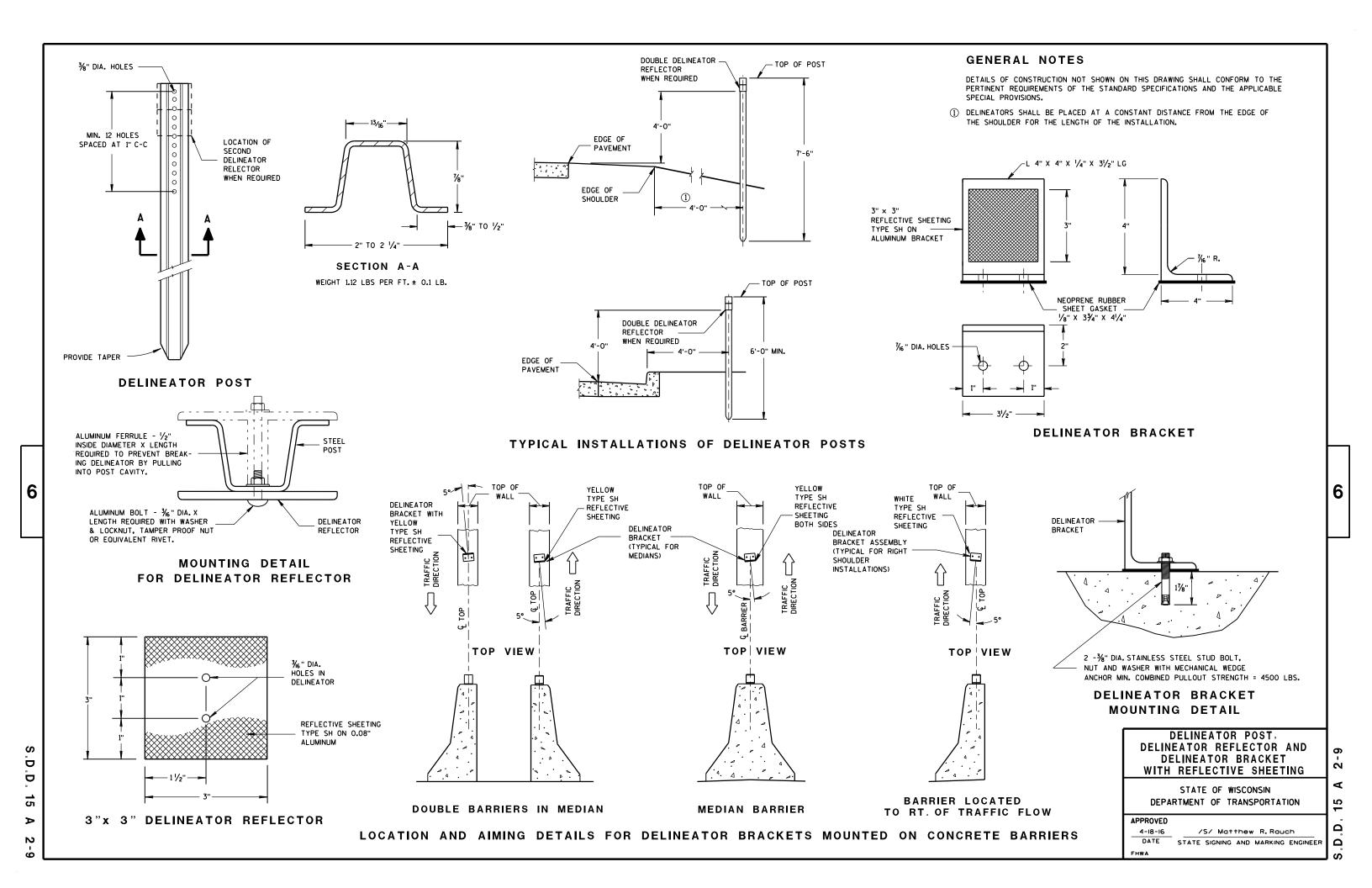
က

Ω

C

 ∞

6



6

S

D

D

15

C

THE EXACT NUMBER, LOCATION, AND SPACING OF ALL SIGNS AND DEVICES SHALL BE ADJUSTED TO FIT FIELD CONDITIONS.

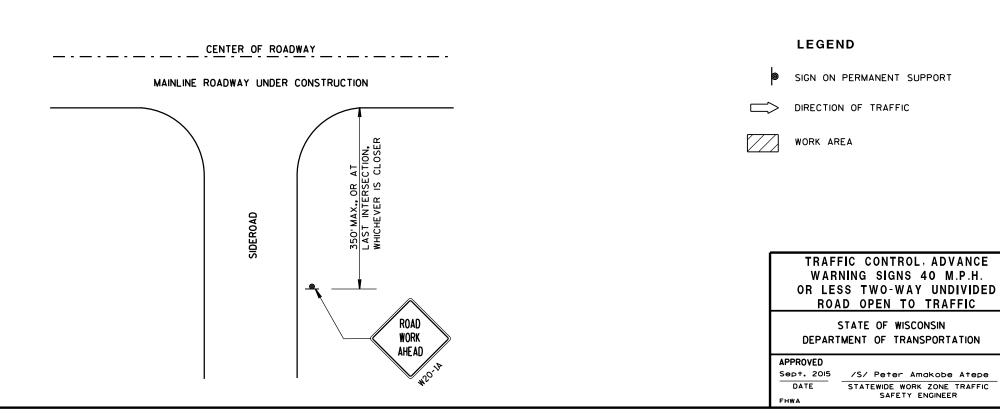
THE SPACING BETWEEN TRAFFIC CONTROL SIGNS SHOULD BE ADJUSTED TO NOT CONFLICT WITH AND SHOULD PROVIDE A DESIRABLE MINIMUM OF 200 FEET CLEARANCE TO EXISTING SIGNS THAT WILL REMAIN IN PLACE.

ALL SIGNS ARE 48"×48" UNLESS OTHERWISE NOTED. IF NECESSARY DUE TO SPACE CONSTRAINTS, 36"×36" SIGNS MAY BE USED INSTEAD OF 48"×48" SIGNS.

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

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.

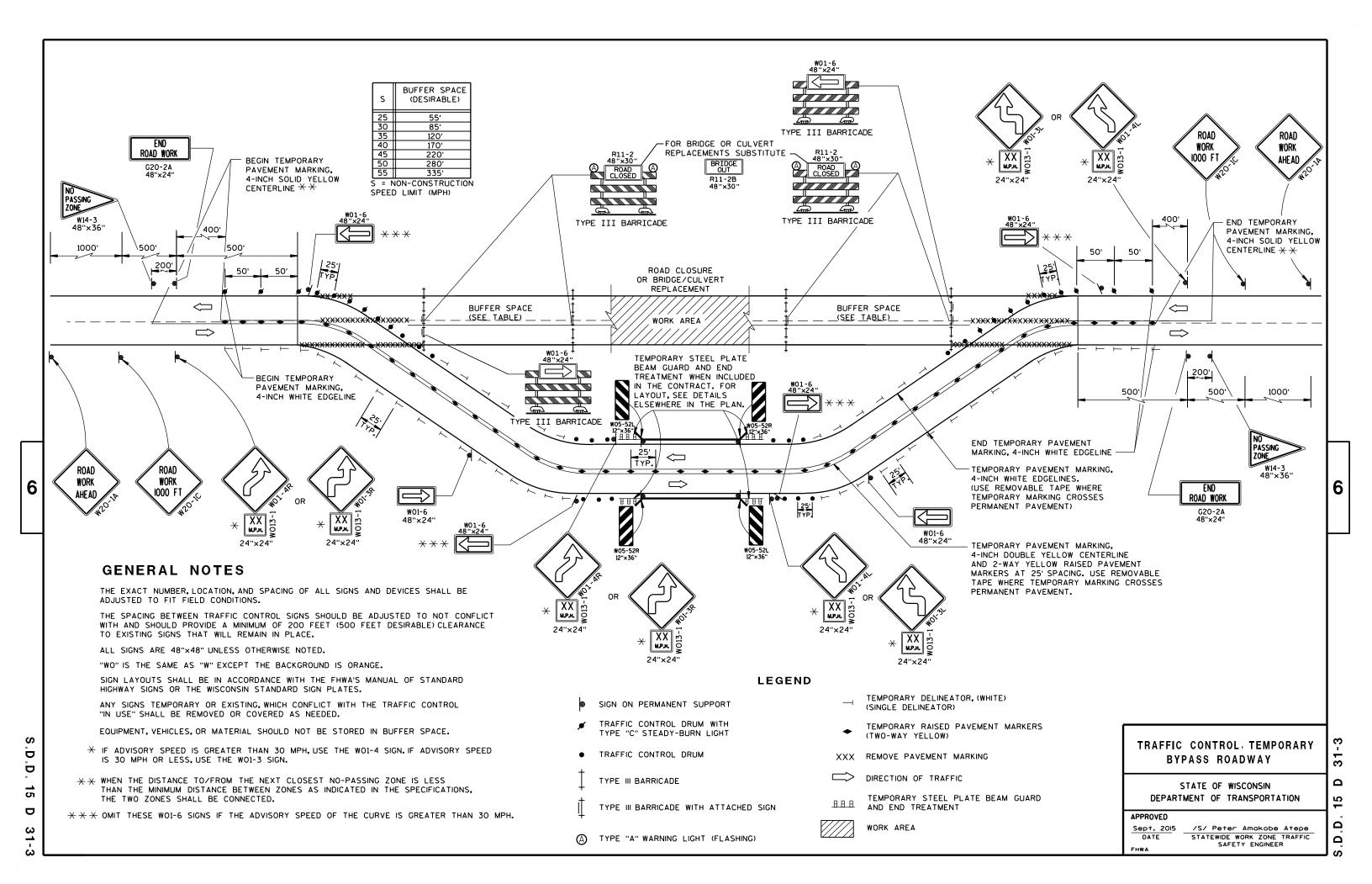
★ THE THIRD W20-1 SIGN IS REQUIRED ONLY IF THERE IS AN INTERSECTION BETWEEN THE "ROAD WORK 500 FT" SIGN AND THE WORK ZONE. ADJUST THE PLACEMENT OF THIS SIGN BASED ON INTERSECTION LOCATION AND OTHER FIELD CONDITIONS.



6

5-

Ω



URBAN ARFA



RURAL AREA (See Note 2)



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



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

White Edgeline Location

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

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

HWY:

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

PLOT BY : mscj9h

GENERAL NOTES

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

POST EMBEDMENT DEPTH

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

TYPICAL INSTALLATION OF PERMANENT TYPE II SIGNS ON SINGLE POSTS

WISCONSIN DEPT OF TRANSPORTATION

SHEET NO:

APPROVED

for State Traffic Engineer

DATE 7/23/15

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

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

PROJECT NO:

PLOT DATE: 23-JUL-2015 15:21

COUNTY:

PLOT NAME :

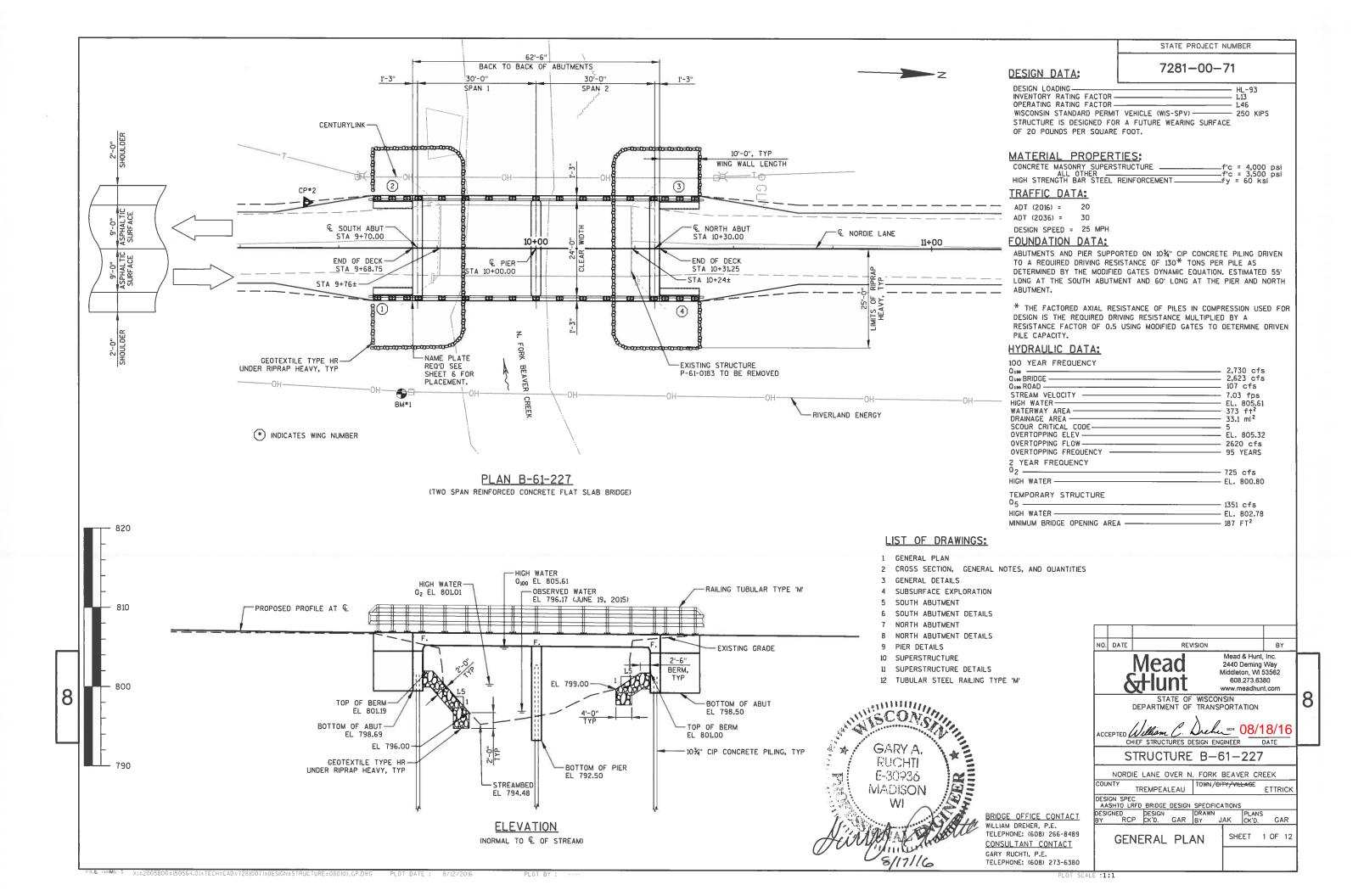
PLOT SCALE: 99.237937:1.000000

WISDOT/CADDS SHEET 42









7281-00-71

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 OR THE SUBSTRUCTURE UNLESS AN ALTERNATE METHOD IS APPROVED BY THE ENGINEER.

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

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

AT THE BACKFACE 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.

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

PROTECTIVE SURFACE TREATMENT TO BE PLACED FULL WIDTH ON TOP SURFACE, SIDES AND OUTSIDE 1'-O" ON BOTTOM OF CONCRETE SLAB DECK.

PROTECTIVE SURFACE TREATMENT TO BE APPLIED TO THE TOP AND EXTERIOR EXPOSED FACE OF WINGS, AND THE END 1'-O" OF THE FRONT FACE OF ABUTMENT.

ALL STATIONS AND ELEVATIONS ARE IN FEET.

THE EXISTING STRUCTURE, TO BE REMOVED, IS A 48.4-FOOT TWO-SPAN STEEL DECK GIRDER BRIDGE, WITH A 18.1-FOOT CLEAR BRIDGE WIDTH (P-61-0183).

THE UPPER LIMITS OF "EXCAVATION FOR STRUCTURES BRIDGES B-61-227" SHALL BE THE EXISTING GROUNDLINE.

		OUT TO OUT OF STRUCTURE	
1'-3"		24'-0"	1'
		CLEAR ROADWAY WIDTH	
	12'-0"	12'-0"	
		© NORDIE LANE RAILING TYPE	TUBULAR - 'M', TYP
	2%	POINT REFERRED TO ON PROFILE 2%	-
			111
¾" V-GROOVE, TYP	1'-4" DECK THICKNESS		
TYP	(IN SPAN)	(AT PIER) EDGE	OF PIER

CROSS SECTION THRU ROADWAY

(LOOKING NORTH)

BENCH MARKS★

NO.	STATION	DESCRIPTION	ELEV.
1	9+66 RT	PK IN CUT OFF PP	803.581
2	12+84 RT	NAII IN PP	806-091

TOTAL ESTIMATED QUANTITIES

8

BID ITEM NO.	BID ITEMS	UNIT	S ABUT	N ABUT	PIER	SUPER	TOTALS
203.0600.S	REMOVING OLD STRUCTURE OVER WATERWAY WITH MINIMAL DEBRIS STATION 10+00	LS					1
206.1000	EXCAVATION FOR STRUCTURES BRIDGES B-61-227	LS					1
210.1500	BACKFILL STRUCTURE TYPE A	TON	75	75			150
502,0100	CONCRETE MASONRY BRIDGES	CY	27	27	27	86	167
502.3200	PROTECTIVE SURFACE TREATMENT	SY	12	11		217	240
505.0400	BAR STEEL REINFORCEMENT HS STRUCTURES	LB	1480	1480	1320		4280
505.0600	BAR STEEL REINFORCEMENT HS COATED STRUCTURES	LB	1340	1340		20310	22990
513.4061	RAILING TUBULAR TYPE M B-61-227	LF					170
516.0500	RUBBERIZED MEMBRANE WATERPROOFING	SY	8	8			16
550.2104	PILING CIP CONCRETE 10 3/4 X 0.25-INCH	LF	220	240	420		880
606.0300	RIPRAP HEAVY	CY	75	55			130
612.0406	PIPE UNDERDRAIN WRAPPED 6-INCH	LF	57	57			114
645.0120	GEOTEXTILE TYPE HR	SY	170	130			300
	NON BID ITEMS						
	FILLER	SIZE					1/2" & 3/4"

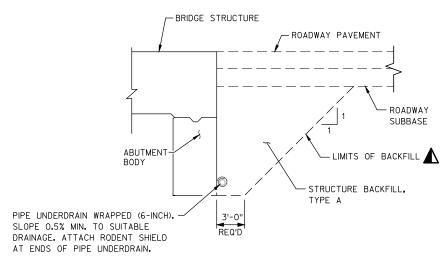
NO. DATE STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION STRUCTURE B-61-227 CROSS SECTION. SHEET 2 OF 12 GENERAL NOTES, AND QUANTITIES

FILE NAME : X:±2005800±150564.01±TECH±CAD±72810071±DESIGN±STRUCTURE±080102_TS.DWG

PLOT DATE: 8/12/2016

PLOT BY: MATTHEW BUCKLI

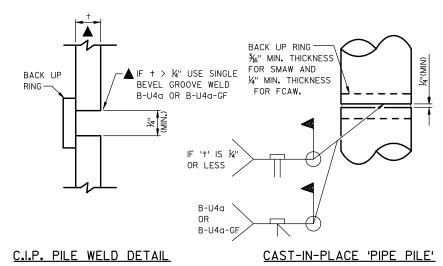
PLOT SCALE : 1" = 1'



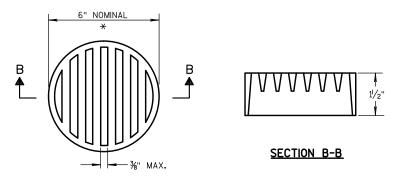
STRUCTURE BACKFILL & PIPE UNDERDRAIN DETAIL

(TYPICAL AT BOTH ABUTMENTS)

A BACKFILL PAY LIMITS. BACKFILL BEYOND BACKFILL PAY LIMITS OF EXCAVATION SHALL BE DETERMINED BY THE CONTRACTOR.



CAST-IN-PLACE SHELL MATERIAL SHALL BE IN ACCORDANCE WITH THE STANDARD SPECIFICATIONS.

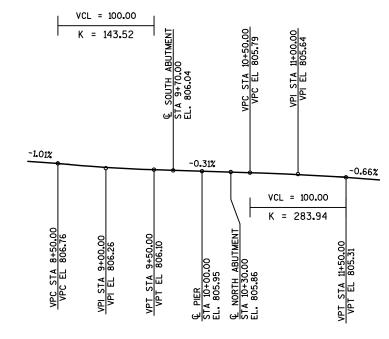


RODENT SHIELD DETAIL

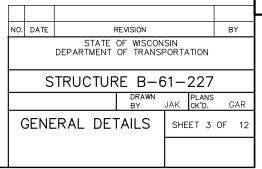
*DIMENSIONS ARE APPROXIMATE. THE GRATE IS SIZED TO FIT INTO A PIPE COUPLING. ORIENT SHIELD SO SLOTS ARE VERTICAL.

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

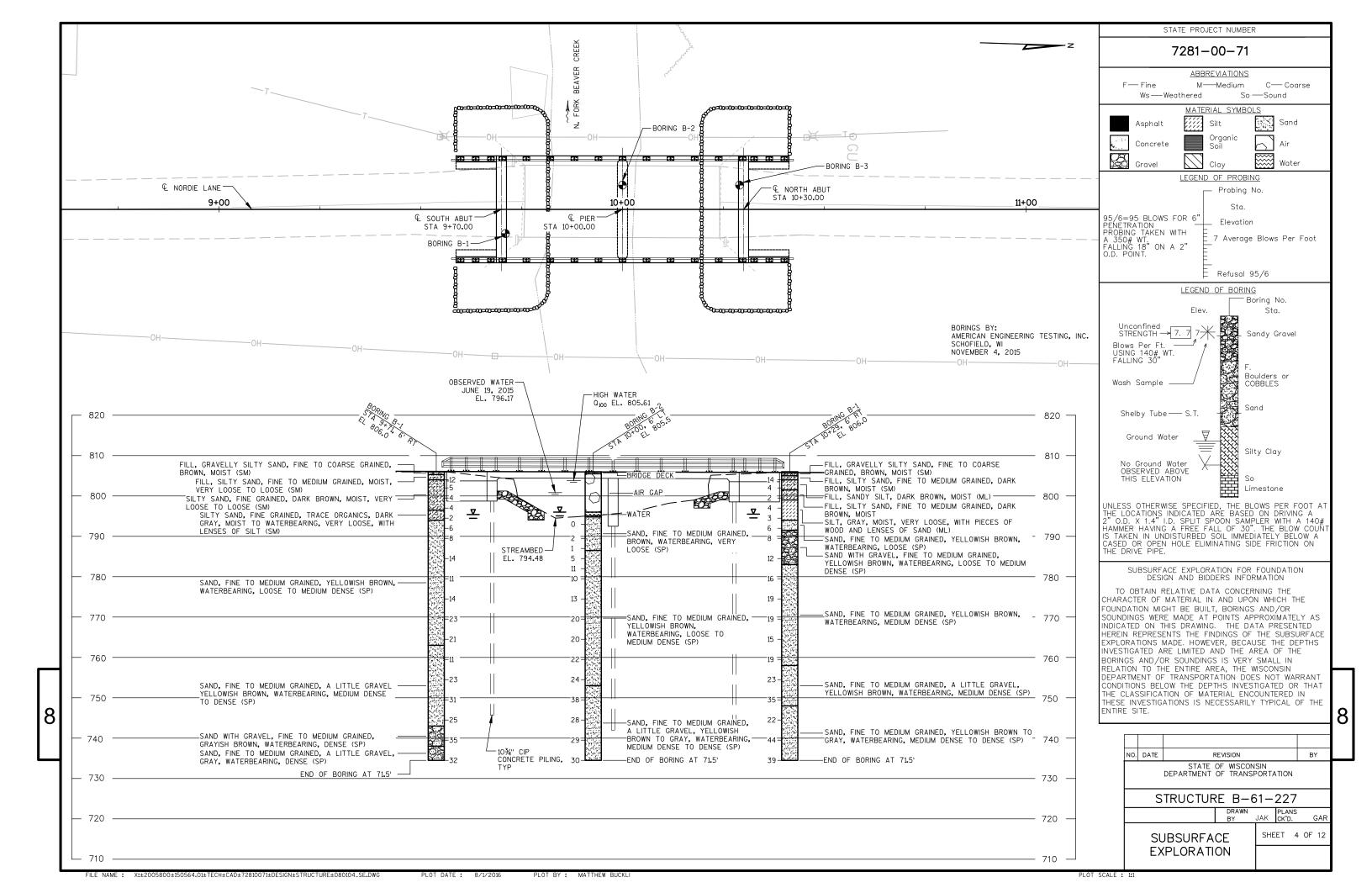
THE RODENT SHIELD SHALL BE A PVC GRATE SIMILAR TO THIS DETAIL. THE GRATE IS COMMERCIALLY AVAILABLE AS A FLOOR STRAINER. A PIPE COUPLING IS REQUIRED FOR THE ATTACHMENT OF THIS SHIELD TO THE EXPOSED END OF THE PIPE UNDERDRAIN. THE SHIELD SHALL BE FASTENED TO THE PIPE COUPLING WITH TWO OR MORE NO. 10 X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

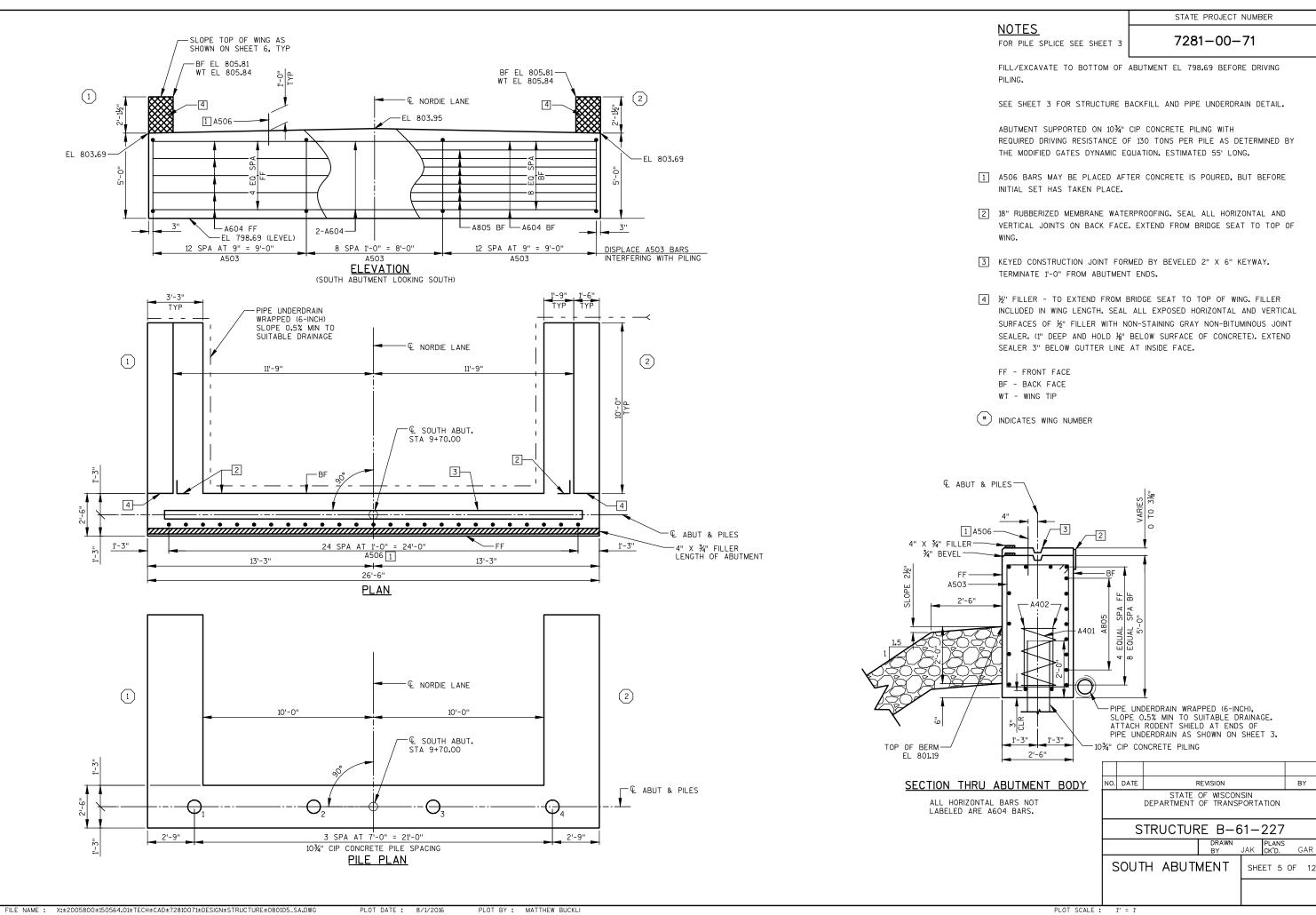


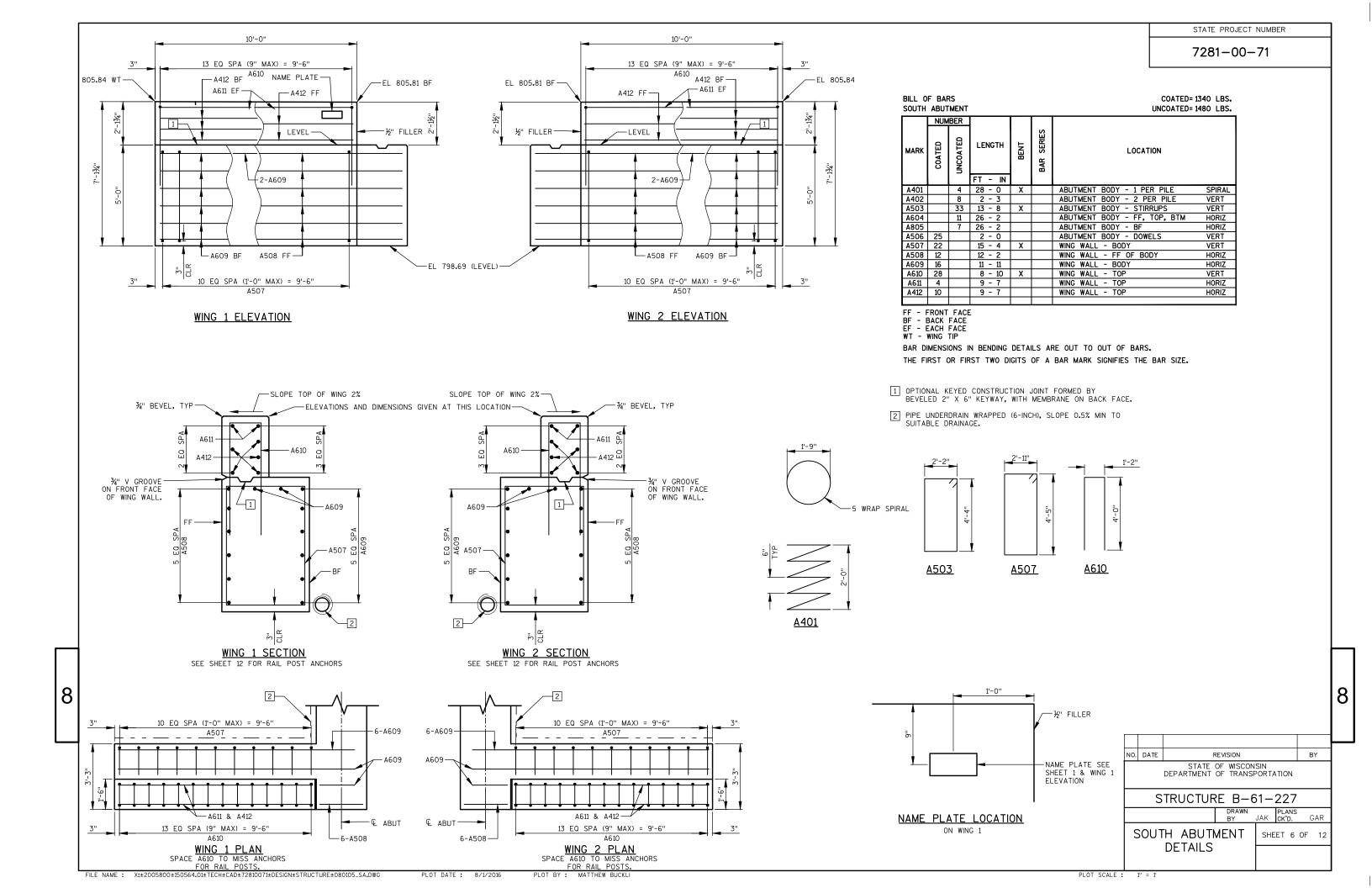
PROFILE GRADE LINE, & NORDIE LANE

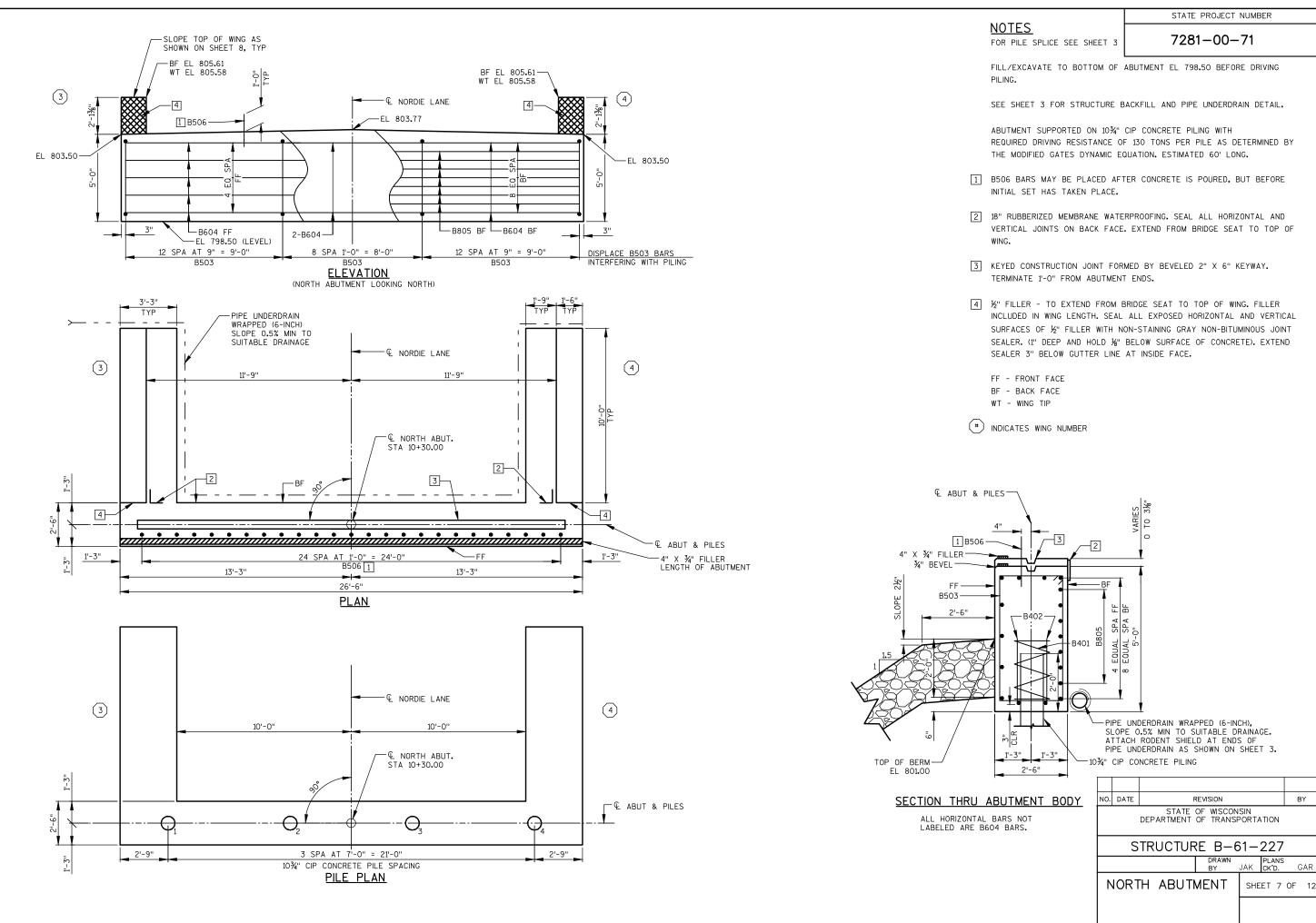


8



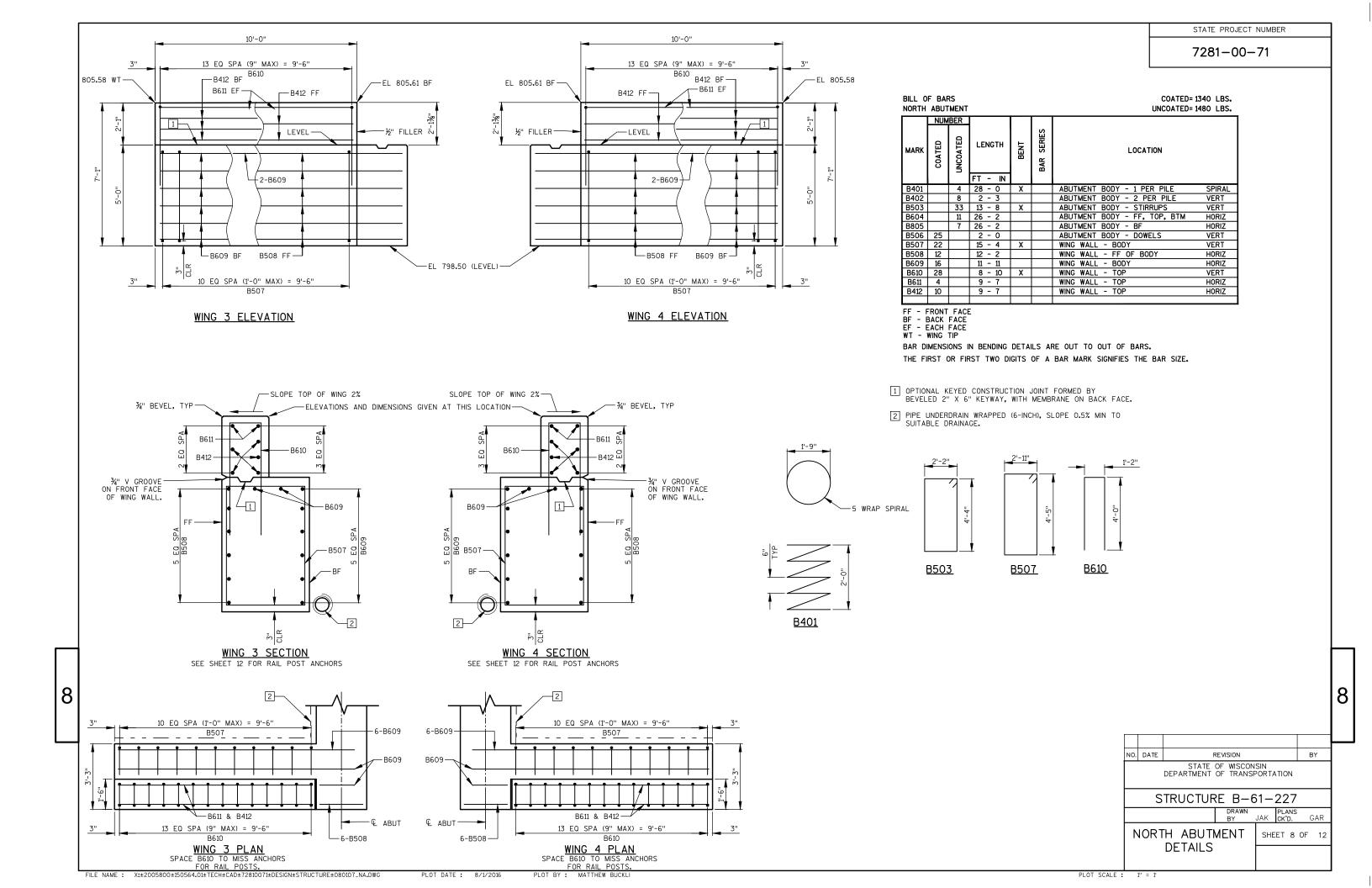






8

FILE NAME: X: ±2005800 ±150564.01 ± TECH ± CAD ± 72810071 ± DESIGN ± STRUCTURE ± 080107_NA.DWG



STATE PROJECT NUMBER € NORDIE LANE 7281-00-71 P504, TYP-EL 804.30 — —EL 804.30 2 EL 804.55-TOP OF PILES EL 802.00 BILL OF BARS COATED= 0 LBS. PIER UNCOATED= 1320 LBS. NUMBER **LENGTH** MARK LOCATION P503 EF −P401 EF 70 2 - 8 X SHAFT - TIES HORIZ P503 SHAFT VERT 54 11 - 1 P406 P504 VERT 12 4 - 3 X SHAFT AT TOP SHAFT DOWELS
SHAFT AT ENDS P505 VERT 24 2 - 0 P402 24 6 - 1 X HORIZ P406 TYP 4 BAR DIMENSIONS IN BENDING DETAILS ARE OUT TO OUT OF BARS. THE FIRST OR FIRST TWO DIGITS OF A BAR MARK SIGNIFIES THE BAR SIZE. 10¾" CIP CONCRETE— PILING, TYP -EL 792.50 LEVEL **ELEVATION** (LOOKING NORTH) 25'-0" * MEASURED ON INSIDE OF BAR 11'-3" 11'-3" P402 <u>P504</u> P406 1 STA 10+00.00 _2 TOP OF CAP ELEVATIONS <u>NOTES</u> TO THIS LINE (FILLER PIERS TO BE SUPPORTED ON 10¾" CIP CONCRETE PILING WITH A REQUIRED DRIVING RESISTANCE OF 130 TONS PER PILE AS DETERMINED BY THE MODIFIED GATES DYNAMIC EQUATION. ESTIMATED NOT INCLUDED IN HEIGHT — € NORDIE LANE 23 SPA AT 1'-0" = 23'-0" 1'-0" 1'-0" TOP OF PILES-EL 802.00, TYP FOR PILE SPLICE DETAILS SEE SHEET 3 <u>PLAN</u> 1 P505 BARS MAY BE PLACED AFTER CONCRETE IS PLACED, BUT BEFORE INITIAL SET HAS TAKEN 25'-0" 12'-6" 12'-6" P406 AT L PIER-[2] KEYED CONSTRUCTION JOINT FORMED BY BEVELED 2" X 6" KEYWAY. TERMINATE 6" FROM PIER ENDS. ENDS, TYP STA 10+00.00 P402, TYP -P401 P504, TYP-MIN LAP 3 4" X 34" FILLER LENGTH OF PIER. 4 4 P402 PLACED ADJACENT TO EACH PILE AT 1'-0" VERTICAL CENTERS. 4 EQ P503, EF - EACH FACE STREAMBED-EL 795.5± C PIER P503--P406 TYP 402, TYF NORDIE LANE 4 6 <u>SPA AT 3'-9" = 22'-6"</u> STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION 10¾" CIP CONCRETE PILE SPACING 21 SPA AT 1'-0" = 21'-0" STRUCTURE B-61-227 P503 EF 10¾" CIP CONCRETE PILE-1'-0" 10 SPA AT 2'-0" = 20'-0" 2'-0" P504 (LAP WITH P503 BARS)

8

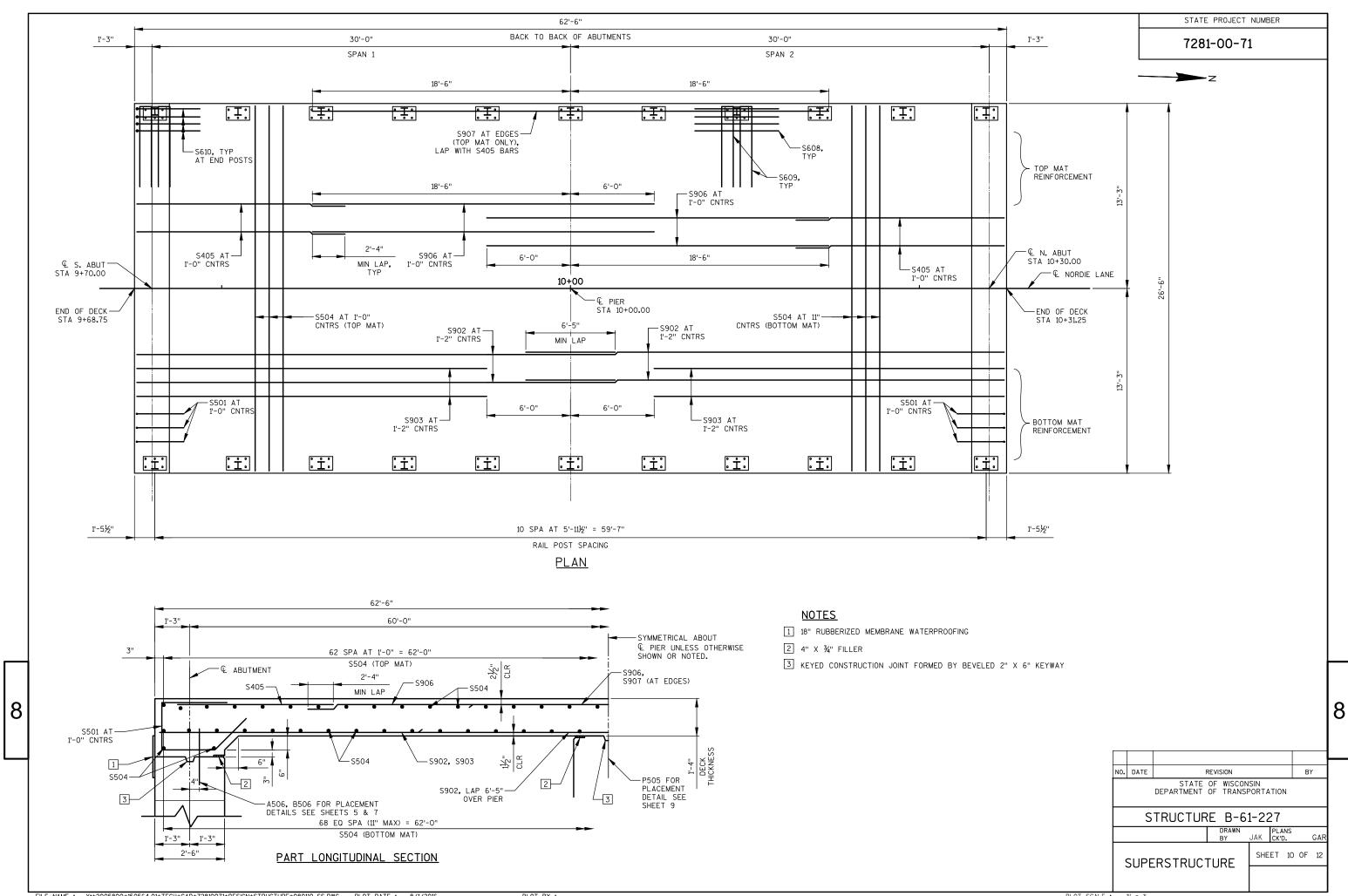
PILE AND REINFORCEMENT PLAN

TYPICAL SECTION THRU PIER

PIER DETAILS

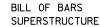
8

SHEET 9 OF 12

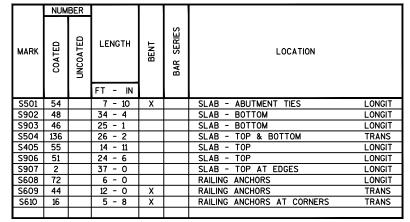


STATE PROJECT NUMBER

7281-00-71



COATED= 20310 LBS. UNCOATED= 0 LBS.

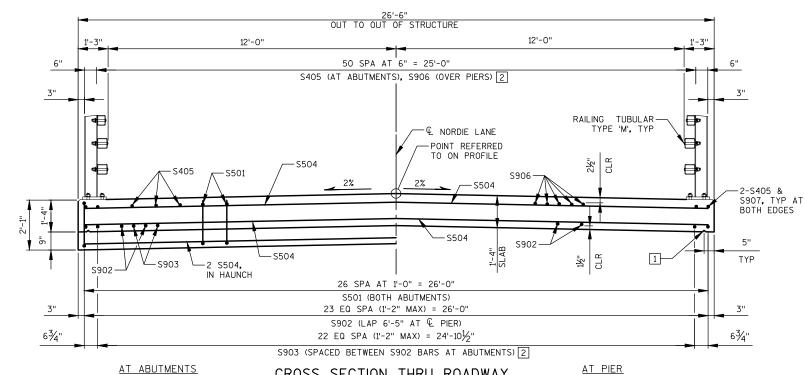


BAR DIMENSIONS IN BENDING DETAILS ARE OUT TO OUT OF BARS.

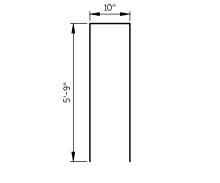
THE FIRST OR FIRST TWO DIGITS OF A BAR MARK SIGNIFIES THE BAR SIZE.

TOP OF DECK ELEVATIONS

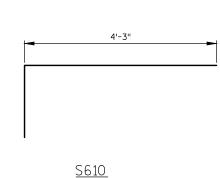
	WEST EDGE CENTERLINE/CROWN				EAST	EDGE
SPAN PT.	STATION	ELEVATION	STATION	ELEVATION	STATION	ELEVATION
S. ABUT.	9 + 70.00	805.78	9 + 70.00	806.04	9 + 70.00	805.78
0.1	9 + 73.00	805.77	9 + 73.00	806.03	9 + 73.00	805.77
0.2	9 + 76.00	805.76	9 + 76.00	806.02	9 + 76.00	805.76
0.3	9 + 79.00	805.75	9 + 79.00	806.01	9 + 79.00	805.75
0.4	9 + 82.00	805.74	9 + 82.00	806.00	9 + 82.00	805.74
0.5	9 + 85.00	805.73	9 + 85.00	805.99	9 + 85.00	805.73
0.6	9 + 88.00	805.72	9 + 88.00	805.98	9 + 88.00	805.72
0.7	9 + 91.00	805.72	9 + 91.00	805.98	9 + 91.00	805.72
0.8	9 + 94.00	805.70	9 + 94.00	805.96	9 + 94.00	805.70
0.9	9 + 97.00	805.69	9 + 97.00	805.95	9 + 97.00	805.69
PIER	10 + 00.00	805.69	10 + 00.00	805.95	10 + 00.00	805.69
0.1	10 + 03.00	805.68	10 + 03.00	805.94	10 + 03.00	805.68
0.2	10 + 06.00	805.67	10 + 06.00	805.93	10 + 06.00	805.67
0.3	10 + 09.00	805.66	10 + 09.00	805.92	10 + 09.00	805.66
0.4	10 + 12.00	805.65	10 + 12.00	805.91	10 + 12.00	805.65
0.5	10 + 15.00	805.64	10 + 15.00	805.90	10 + 15.00	805.64
0.6	10 + 18.00	805.63	10 + 18.00	805.89	10 + 18.00	805.63
0.7	10 + 21.00	805.62	10 + 21.00	805.88	10 + 21.00	805.62
0.8	10 + 24.00	805.61	10 + 24.00	805.87	10 + 24.00	805.61
0.9	10 + 27.00	805.60	10 + 27.00	805.86	10 + 27.00	805.60
N. ABUT.	10 + 30.00	805.59	10 + 30.00	805.85	10 + 30.00	805,59



CROSS SECTION THRU ROADWAY
(LOOKING NORTH)



<u>S609</u>



PROTECTIVE SURFACE
TREATMENT

PROTECTIVE SURFACE
TREATMENT

CAMBER DIAGRAM

CAMBER SPAN AS SHOWN (USING VALUES IN TABLE) TO PROVIDE

0		
	(IN)	
⊈ S ABUT	0	
0.1	⅓	
0.2	1/4	
0.3	¾ ¾	
0.4	¾	
0.5	¾	
0.6	1/4	
0.7	1/4	
0.8	½	
0.9		
& PIER	0	
0.1	0	
0.2	⅓	
0.3	1/4	
0.4	1/4	
0.5	3/8	
0.6	3/8	
0.7	3%	1
0.8	1/4	
0.9	⅓	
€ N ABUT	0	2

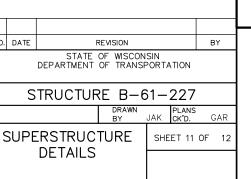
SPAN (PT) CAMBER

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.

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

PRIOR TO RELEASING SLAB FALSEWORK, TAKE TOP OF SLAB ELEVATIONS AT THE $\mathbb Q$ OF ABUTMENTS AND AT % PTS. TO VERIFY CAMBER, TAKE ELEVATIONS ALONG END OF DECK AND $\mathbb Q$.

- 1 ¾" V-GROOVE, EXTEND V-GROOVE TO 6" FROM FRONT FACE OF ABUTMENT DIAPHRAGM. V-GROOVES ARE REQUIRED.
- 2 ALTERNATE BAR PLACEMENT AS SHOWN IN THE PLAN VIEW ON SHEET 10.



8

FILE NAME: X:±2005800±150564.01±TECH±CAD±72810071±DESIGN±STRUCTURE±080110_SS.DWG

2'-2"

2'-2"

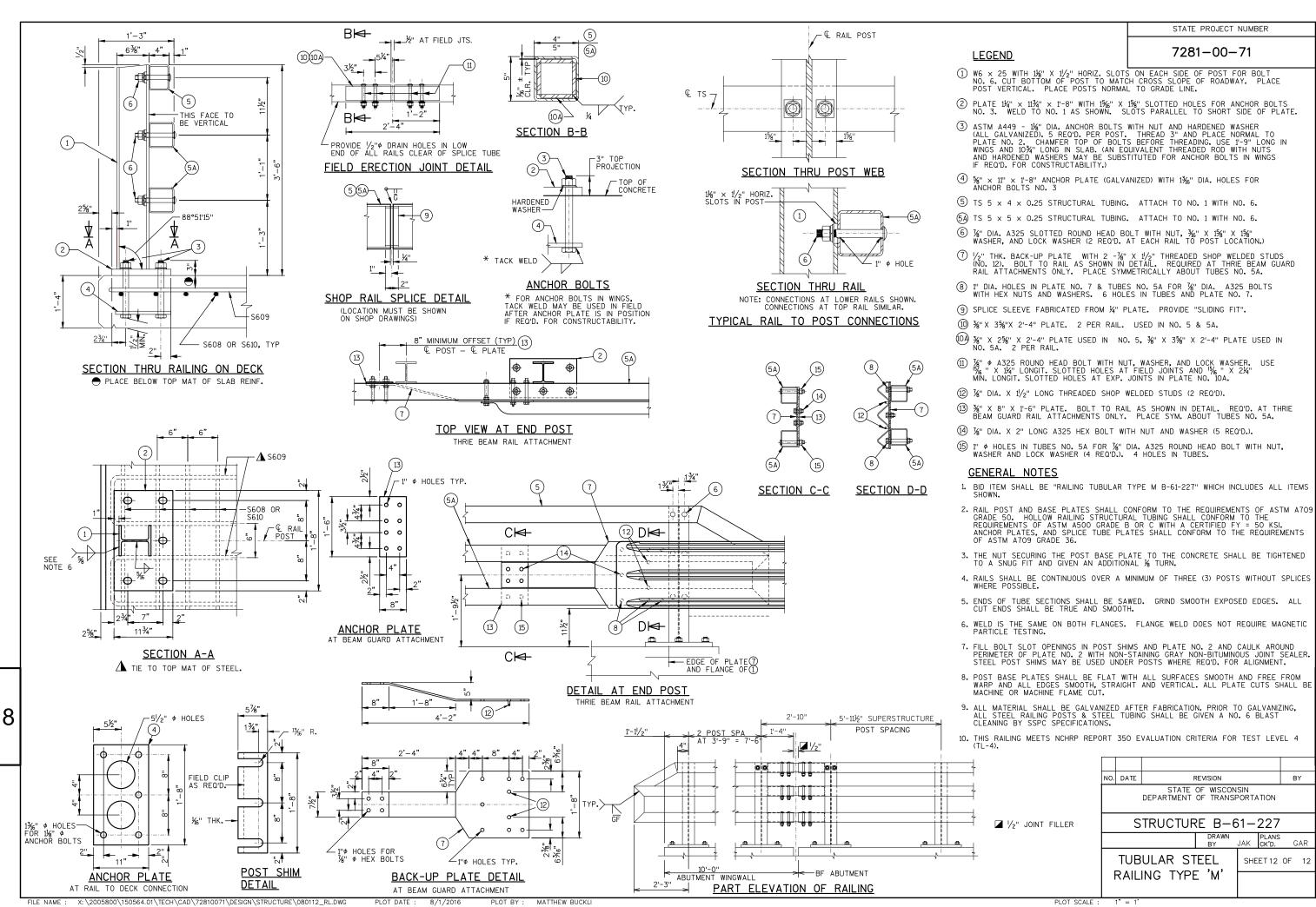
<u>S501</u>

PLOT DATE: 8/1/2016

FOR DEAD LOAD DEFLECTION & FUTURE CREEP. CAMBER DOES NOT INCLUDE ALLOWANCE FOR FORM SETTLEMENT.

1/2016 PLOT BY: MATTHEW BUCKLI

PLOT SCALE : 1" = 1'



PLOT SCALE

AREA (SF)			Incremental Vol	(CY) (Unadjusted)		Cumulative Vol (C)	<u>()</u>		
					Salvaged/Unusable		Cut		
	Cut	Salvaged/Unusable	Fill	Cut	Pavement Material	Fill	1.00	Expanded Fill	Mass Ordinate
STATION		Pavement Material		Note 1	Note 2	Note 3	Note 1	1.25	Note 4
8+50	20	0	0	0	0	0	0	0	0
8+75	19	0	1	18	0	0	18	0	17
9+00	17	0	4	16	0	2	34	3	31
9+25	19	0	12	17	0	8	51	13	38
9+50	21	0	11	18	0	11	69	27	43
9+60	21	0	0	8	0	2	77	29	48
9+60	0	0	0	0	0	0	77	29	48
10+40	0	0	47	0	0	69	77	116	-39
10+40	21	0	47	0	0	0	77	116	-39
10+50	21	0	47	8	0	17	84	138	-53
10+75	20	0	39	19	0	40	103	187	-84
11+00	22	0	5	19	0	20	122	213	-90
11+25	22	0	2	20	0	3	143	217	-74
11+50	22	0	5	20	0	3	163	221	-58
			Column Total	163	0	177			

Notes

- 1 Cut (Salvaged/Unusable Pavement Material is Included)
- 2 Salvaged/Unusable Pavement Material (This does not show up in cross sections.)
- 3 Fill (Does not include Unuseable Pavement volume.)
- 4 The Mass Ordinate + or quantity calculated. Plus quantity indicates as excess of material. Minus indicates a shortage of

No Marsh or EBS is anticipated.

	AREA (SF)			Incremental Vol	(CY) (Unadjusted)		Cumulative Vol (C)	()	
			Salvaged/Unusable			Cut			
	Cut	Salvaged/Unusable	Fill	Cut	Pavement Material	Fill	1.00	Expanded Fill	Mass Ordinate
STATION		Pavement Material		Note 1	Note 2	Note 3	Note 1	1.25	Note 4
18+07	1	0	2	0	0	0	0	0	0
18+50	1	0	19	1	0	16	1	20	-19
19+00	0	0	92	1	0	102	2	148	-146
19+50	0	0	117	0	0	193	2	389	-387
19+80	0	0	117	0	0	130	2	551	- 549
19+80	0	0	0	0	0	0	2	551	-549
20+20	0	0	0	0	0	0	2	551	-549
20+20	0	0	98	0	0	0	2	551	- 549
20+50	0	0	98	0	0	108	2	687	-685
21+00	0	0	86	0	0	170	2	899	-897
21+50	1	0	24	1	0	102	3	1026	-1024
21+94	1	0	5	1	0	24	4	1056	-1052
	1		Column Total	4	0	845			l .

Notes

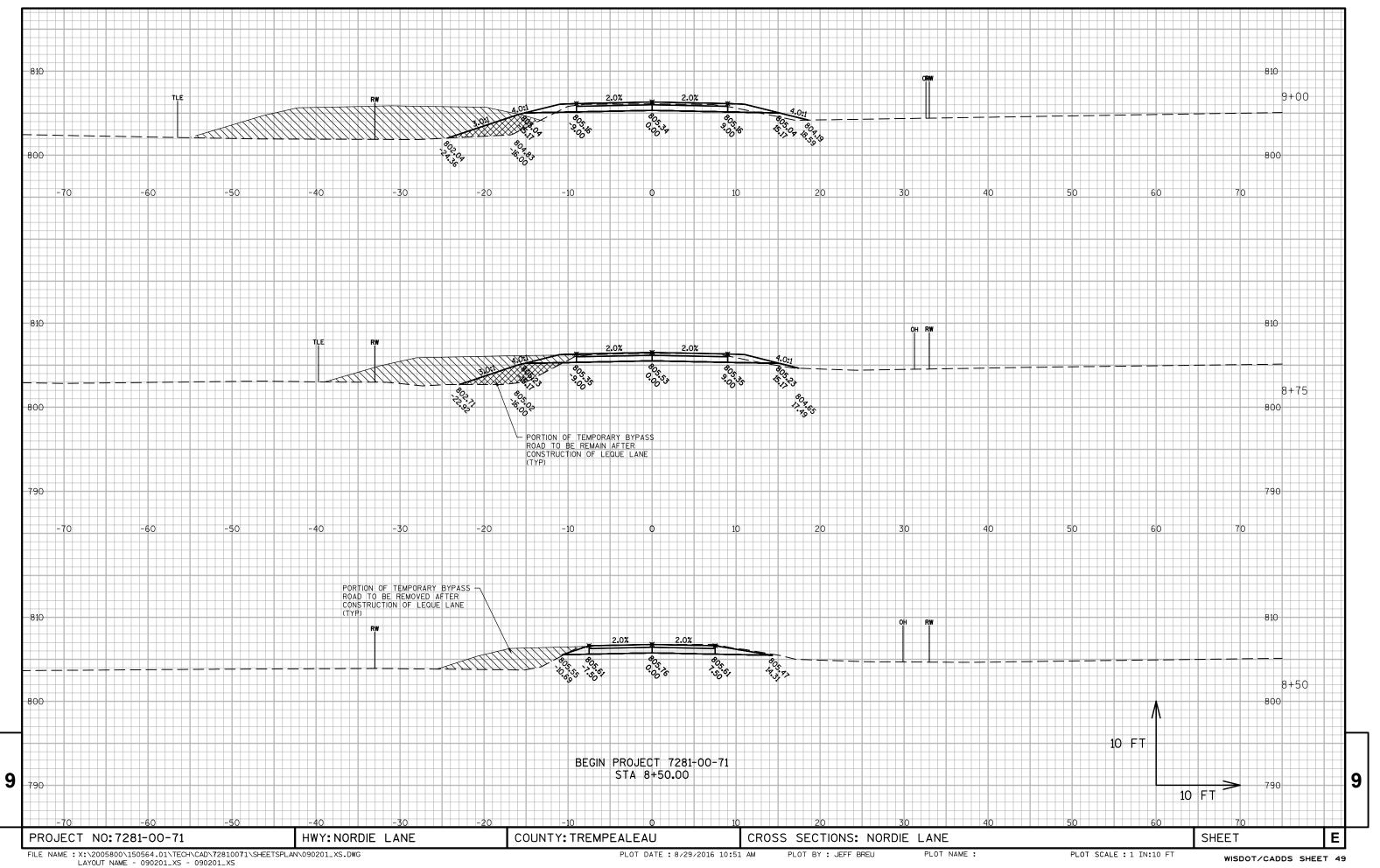
9

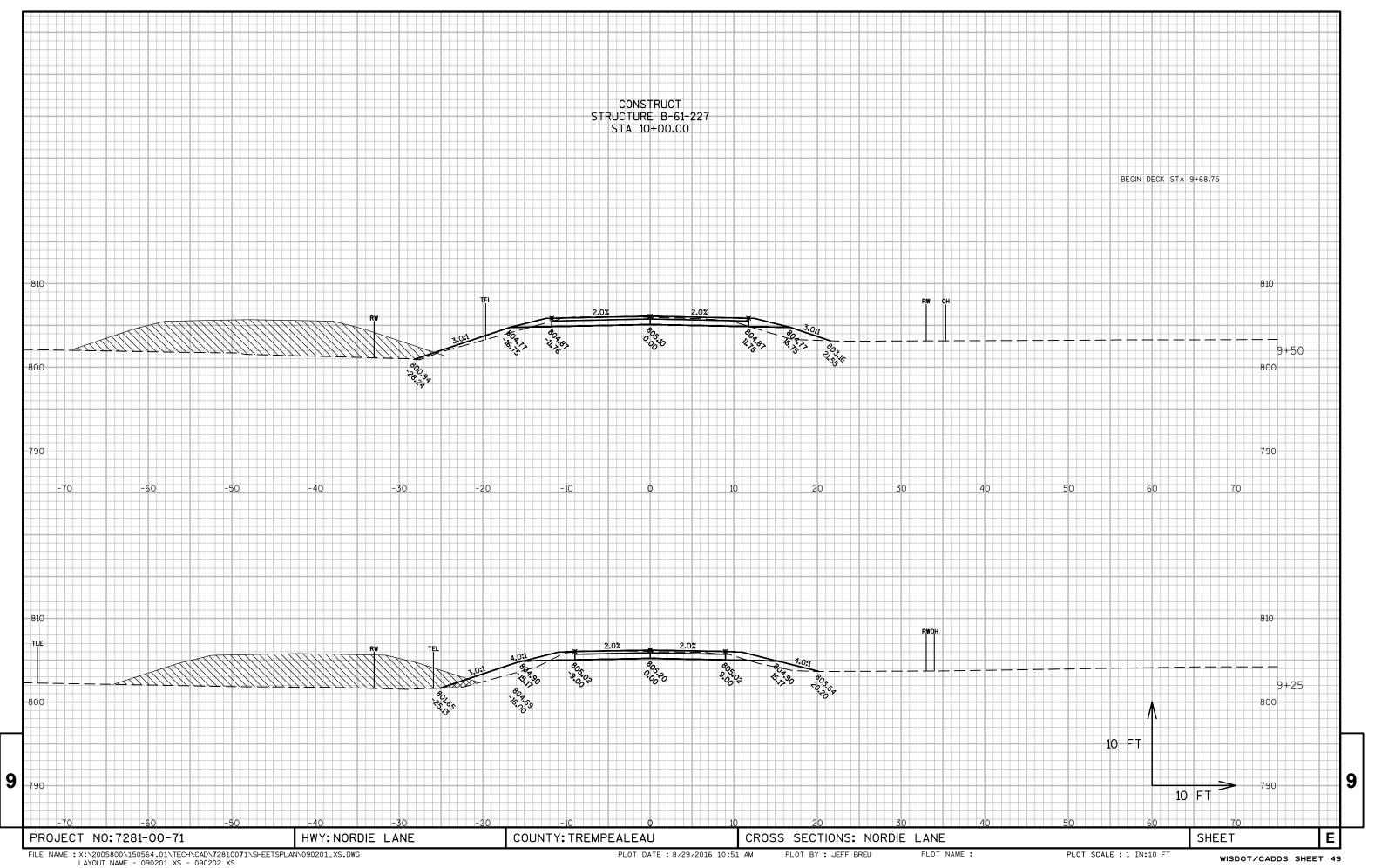
- 1 Cut (Salvaged/Unusable Pavement Material is Included)
- 2 Salvaged/Unusable Pavement Material (This does not show up in cross sections.)
- 3 Fill (Does not include Unuseable Pavement volume.)
- 4 The Mass Ordinate + or quantity calculated. Plus quantity indicates as excess of material. Minus indicates a shortage of

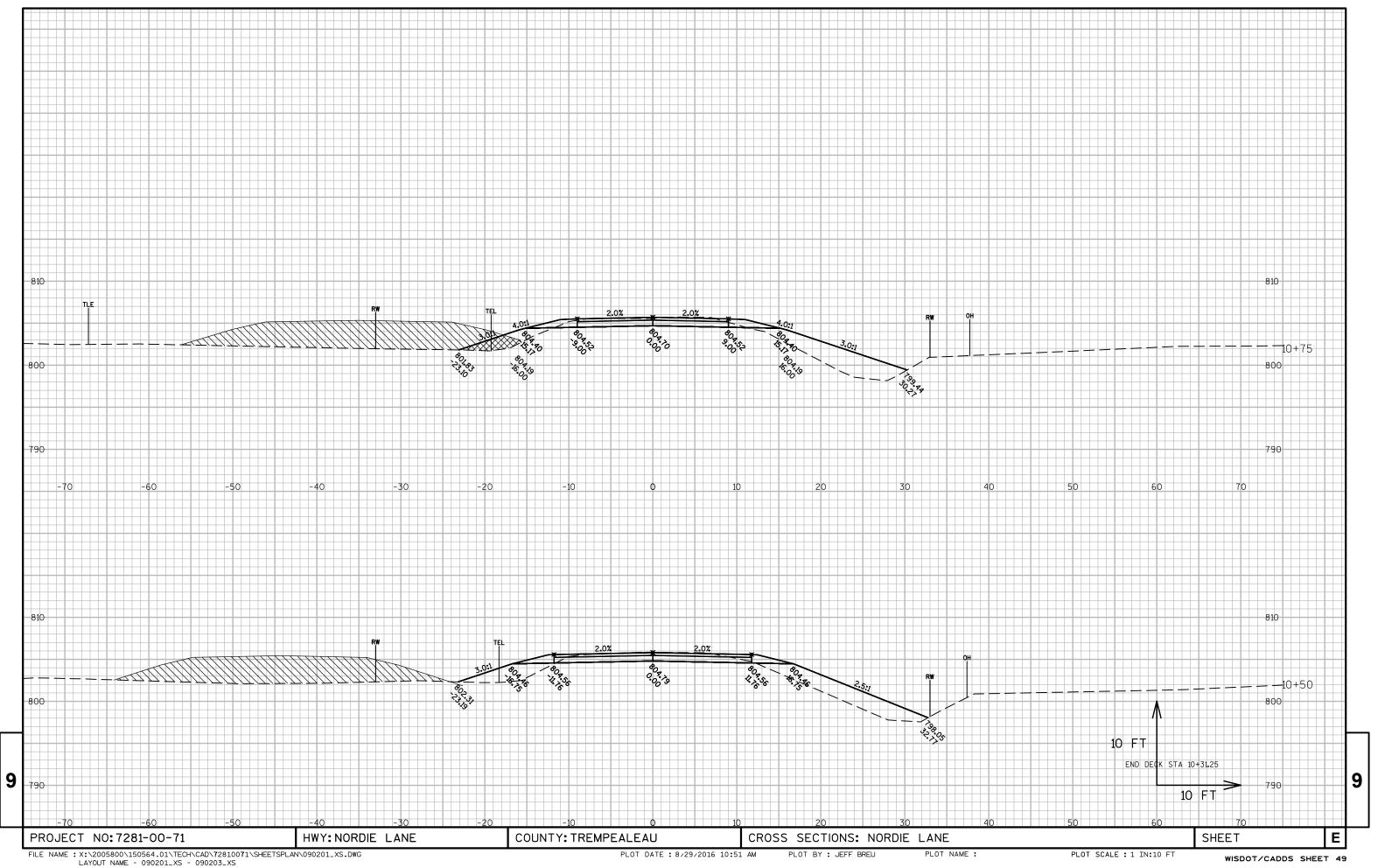
No Marsh or EBS is anticipated.

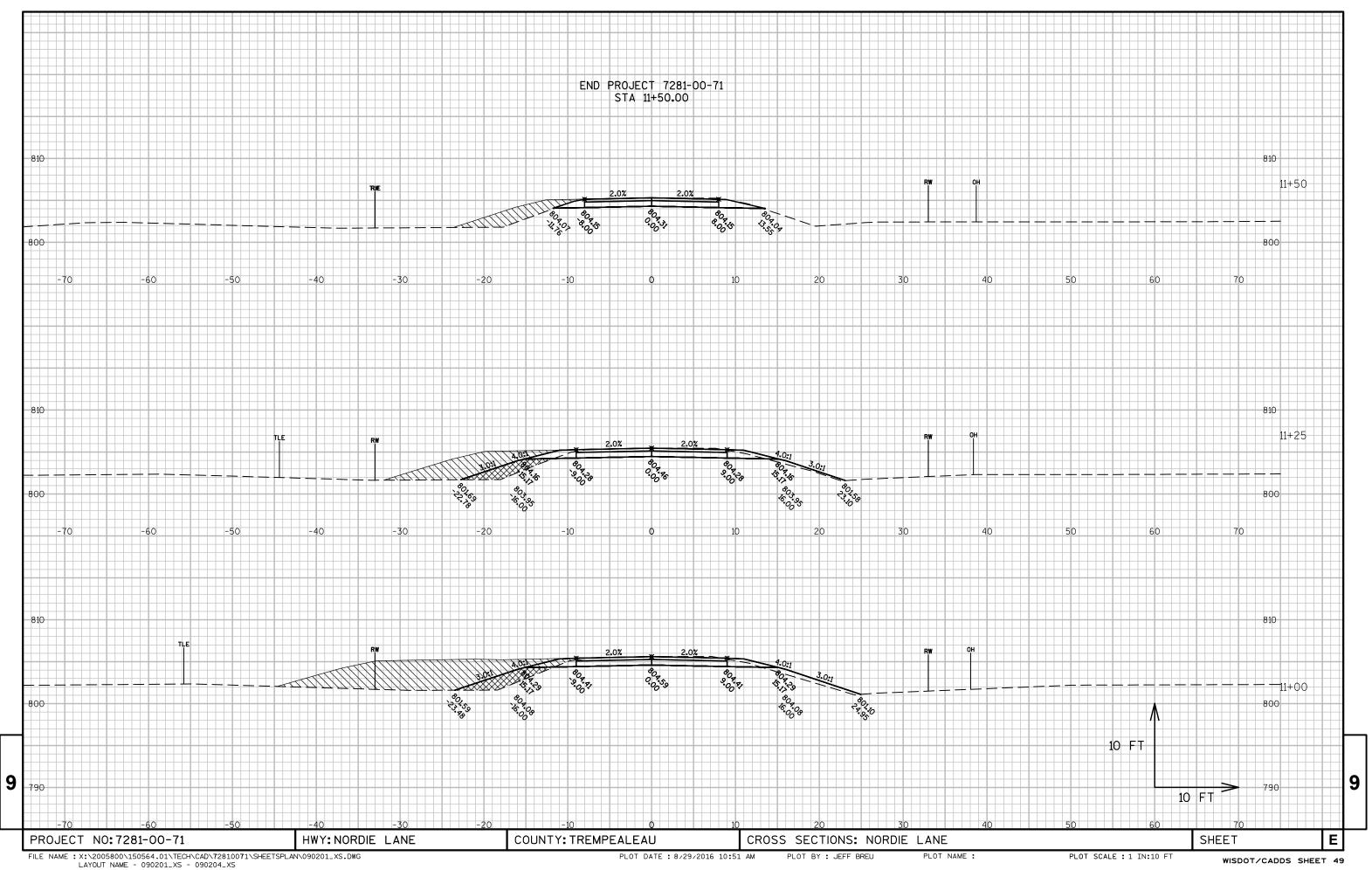
PROJECT NO: 7281-00-71 HWY: NORDIE LANE COUNTY: TREMPEALEAU EARTHWORK SUMMARY SHEET NO: E

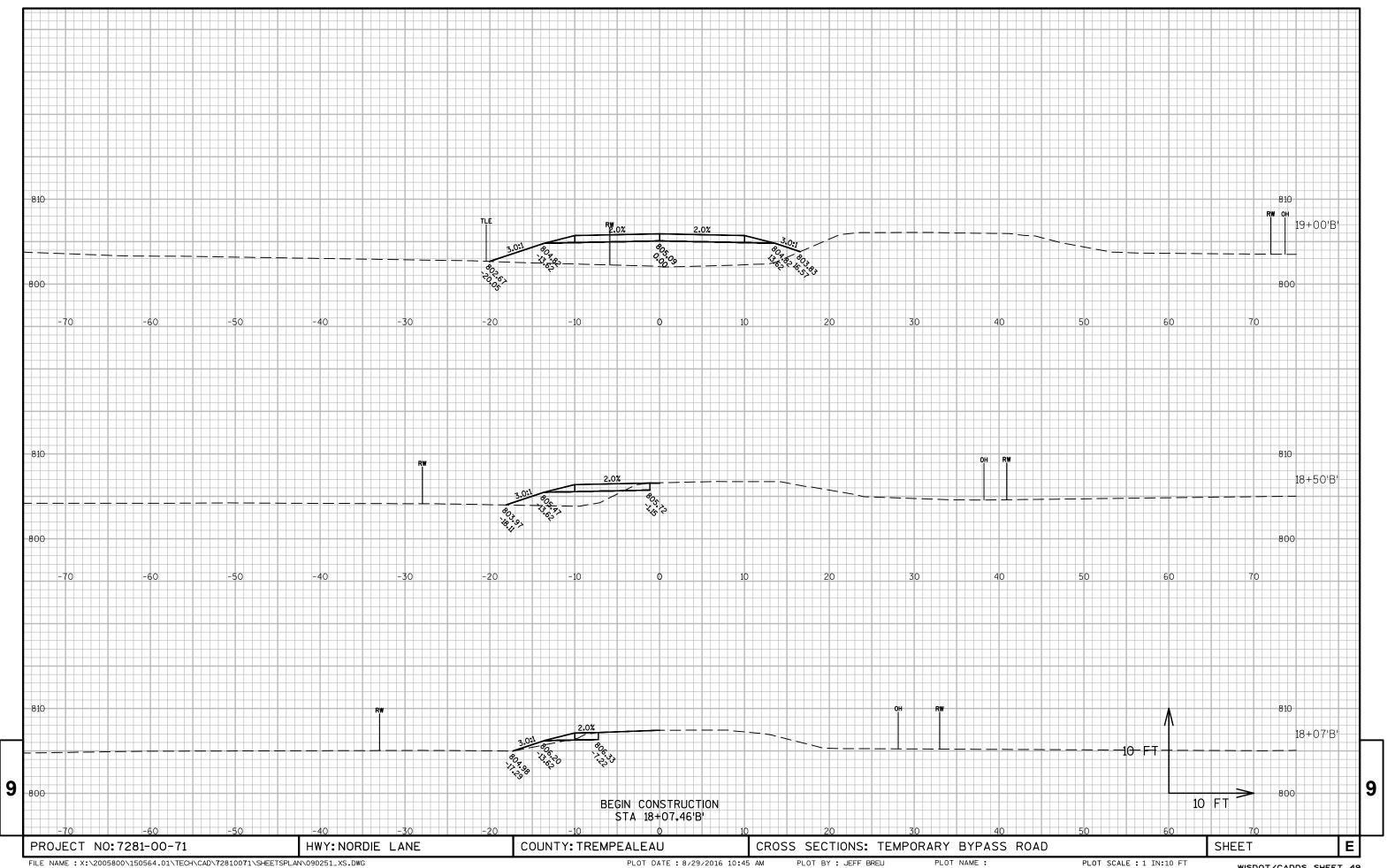
FILE NE : PLOT DATE : _____ PLOT BY : _____ PLOT NAME : ____ ORG DATE : ORIGINATOR : PLOT SCALE :

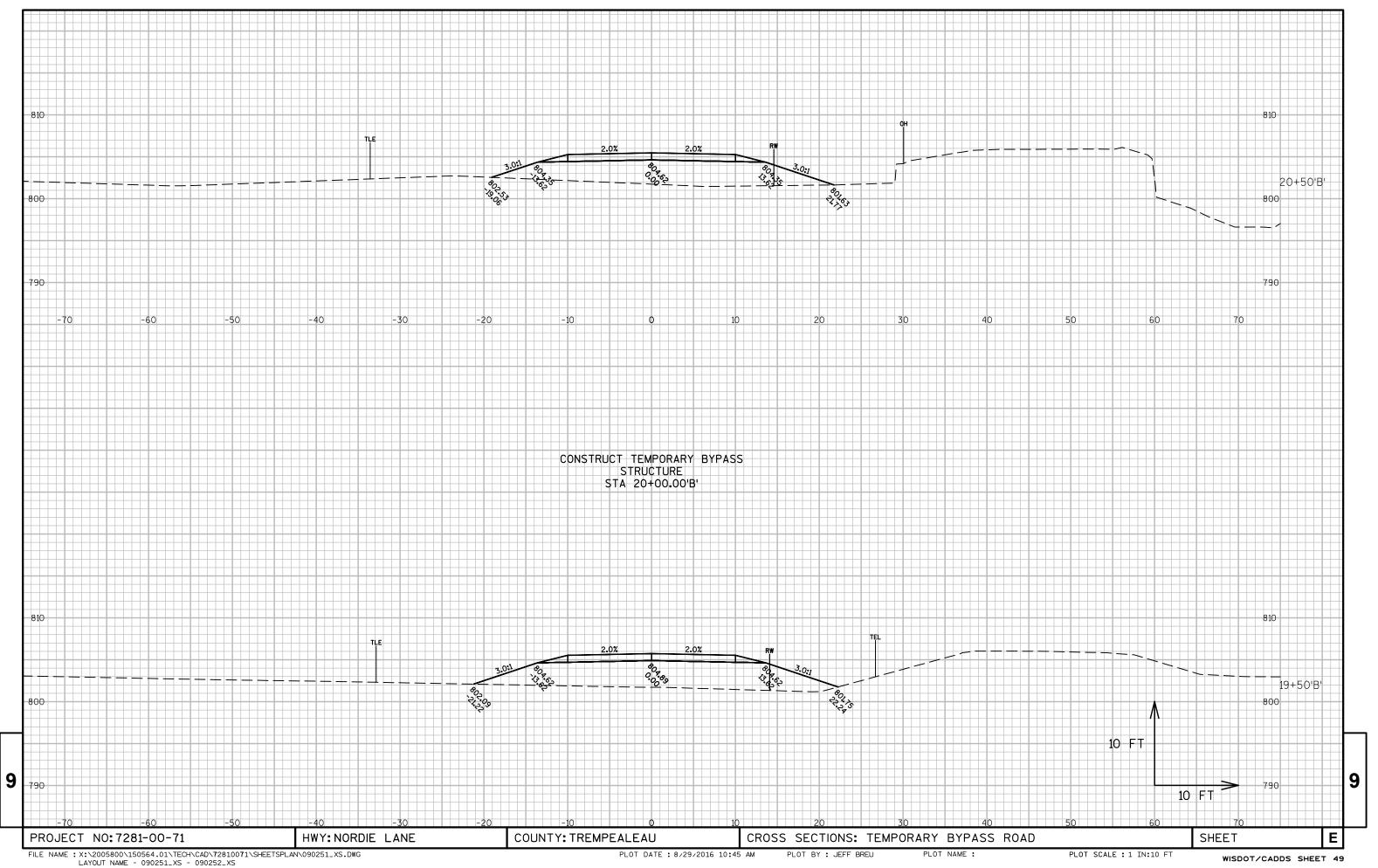


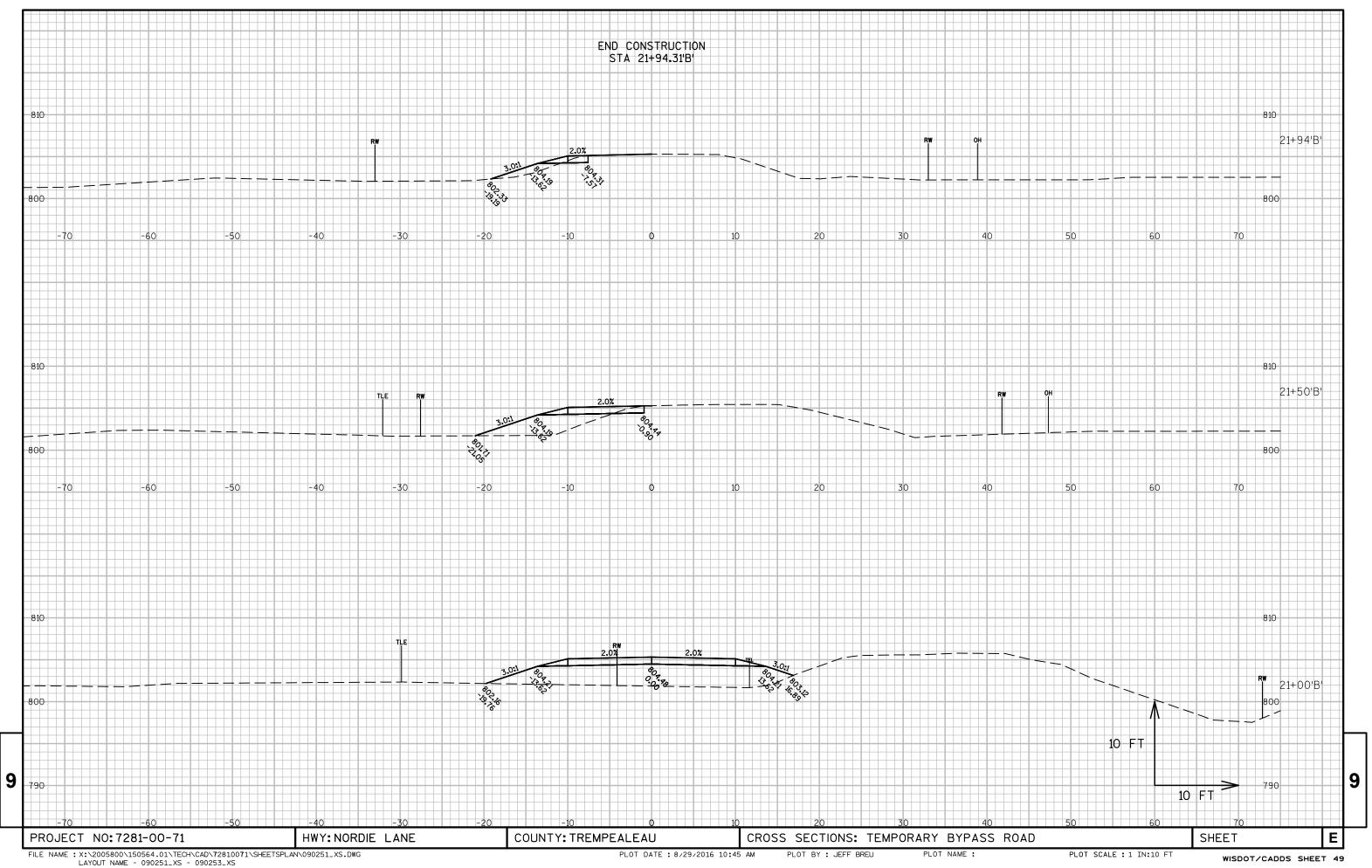














Wisconsin Department of Transportation

Dedicated people creating transportation solutions through innovation and exceptional service.

http://www.dot.wisconsin.gov