FEB 2016

ORDER OF SHEETS

Section No. 1

Section No. 2

Section No. 3

Section No. 5

Section No. 6

Section No. 7

Section No. 8

Section No. 9

Section No. 9

TOTAL SHEETS = 78

Title

Sign Plates

Structure Plans

Cross Sections

Typical Sections and Details

Plan and Profile (Includes Erosion Control Plans)

Estimate of Quantities Miscellaneous Ouantities Right of Way Plat

Standard Detail Drawings

Computer Earthwork Data

A.A.D.T. 2015 A.A.D.T. 2035 D.H.V. D.D. DESIGN SPEED ESALS

CONVENTIONAL SYMBOLS PLAN CORPORATE LIMITS PROPERTY LINE

LOT LINE

MARSH AREA

DESIGN DESIGNATION

= 282

= 15 (EST.) = 60/40 (EST.)

= 25 MPH

= 44,000

= 10% (EST.)

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



<u>PL + 58.1</u>
L
-
1
1.1
M//
-CÀIIŤIÑN>-
-caution-



	MARSH OR ROCK PROFILE (To be noted as such) SPECIAL DITCH
	GRADE ELEVATION
~	CULVERT (Profile View)
	UTILITIES
	ELECTRIC
- I	FIBER OPTIC
-	GAS
MA	SANITARY SEWER
CAUTION-	STORM SEWER
VV.	TELEPHONE
	WATED

	GRADE E
~	CULVERT
	UTILITIE
	ELECTRIC
-1	FIBER OF
	GAS
$\mathcal{M}_{\mathcal{L}}$	SANITAR
-CAUTION-	STORM :
.//	TELEPHO
エニエノ	WATER

-PROJECT LOCATION

	S. ECIAL DITCH
	GRADE ELEVATION
	CULVERT (Profile View)
	UTILITIES
	ELECTRIC
- -	FIBER OPTIC
—	GAS
1.	SANITARY SEWER
ign=	STORM SEWER
	TELEPHONE
	WATER
_ 	UTILITY PEDESTAL

POWER POLE

TELEPHONE POLE

PROFILE

GRADE LINE ORIGINAL GROUND

STATE OF WISCONSIN

DEPARTMENT OF TRANSPORTATION

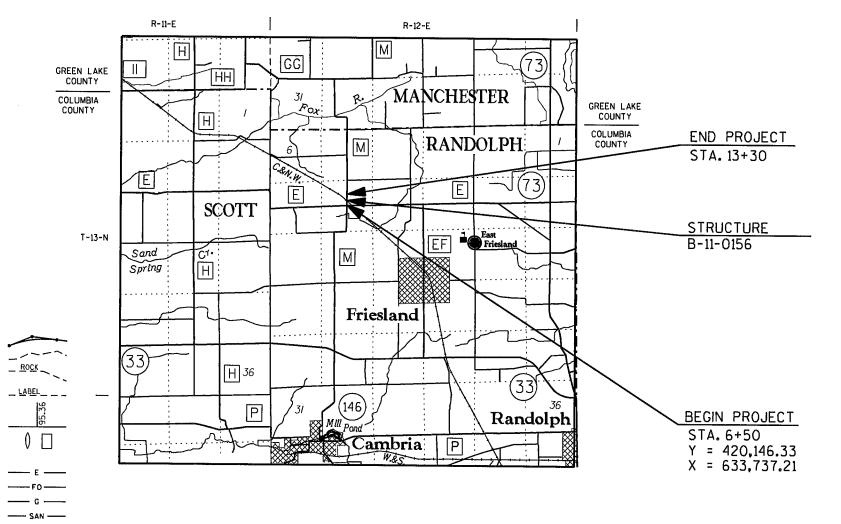
PLAN OF PROPOSED IMPROVEMENT

CTH E - CTH GG

UNION PACIFIC RAILROAD BRIDGE B-11-0156

CTH M **COLUMBIA COUNTY**

> STATE PROJECT NUMBER 6723-00-71



TOTAL NET LENGTH OF CENTERLINE = 0.129 MI.

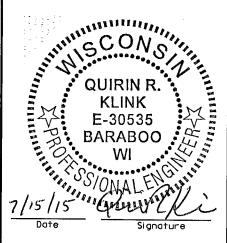
COORDINATES ON THIS PLAN ARE REFERENCED TO THE WISCONSIN COUNTY COORDINATE SYSTEM (WCCS), COLUMBIA COUNTY.

FEDERAL PROJECT STATE PROJECT PROJECT CONTRACT 6723-00-71 WISC 2015637

ACCEPTED FOR COLUMBIA COUNTY

ORIGINAL PLANS PREPARED BY: MSA

1230 South Boulevard Baraboo, WI 53913 608-356-2771 1-800-362-4505 Face 608-356-2770



STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION

REPARED BY

MSA PROFESSIONAL SERVICES, INC. Surveyor MSA PROFESSIONAL SERVICES, INC. Designer

Management

KJOHNSON ENGINEERS, INC.

FILE NAME: P:\2900s\2990s\2995\02995000\cadd\DOT\Planshts\2995000TS.dgn

PLOT DATE: 7/9/2015

PLOT BY : bhailey

TITLE: 2995000TS.DGN

PLOT SCALE: 1:10000

WOODED OR SHRUB AREA

STANDARD ABBREVIATIONS

AC	ACRE	F/L	FLOW LINE	SALV	SALVAGED
AGG	AGGREGATE	FT	FOOT	SAN	SANITARY SEWER
<	ANGLE	GN	GRID NORTH	SECT	SECTION
ASPH	ASPHALTIC	HR	HANDICAP RAMP	SHLDR	SHOULDER
AC	ASPHALT CEMENT	HT	HEIGHT	SW	SIDEWALK
ADT	AVERAGE DAILY TRAFFIC	CWT	HUNDREDWEIGHT	S	SOUTH
B.A.D.	BASE AGGREGATE DENSE	HYD	HYDRANT	SB	SOUTHBOUND
ВМ	BENCH MARK	IN DIA	INCH DIAMETER	SPECS	SPECIFICATIONS
CB	CATCH BASIN	INL	INLET	SQ	SQUARE
€ OR C/L	CENTER LINE	ID	INSIDE DIAMETER	SF OR SQ FT	SOUARE FEET
C-C	CENTER LINE CENTER TO CENTER	I	INTERSECTION ANGLE	SY	SQUARE YARD
CONC	CONCRETE	ΙE	INVERT ELEVATION	SSPRC	STORM SEWER
CO	COUNTY	IP	IRON PIPE OR PIN		PIPE REINFORCED CONCRETE
CTH	COUNTY TRUNK HIGHWAY	JCT	JUNCTION	STD	STANDARD
CY	CUBIC YARD	L	LENGTH OF CURVE	SDD	STANDARD DETAIL DRAWINGS
CULV	CULVERT	ĹF	LINEAR FOOT	STH	STATE TRUNK HIGHWAYS
CP	CULVERT PIPE	LC	LONG CHORD OF CURVE	STA	STATION
CPRC	CULVERT PIPE	LCB	LONG CHORD BEARING	SS	STORM SEWER
55	REINFORCED CONCRETE	LS	LUMP SUM	ī	TANGENT
C & G	CURB AND GUTTER	MH	MANHOLE	TEL	TELEPHONE
D	DEGREE OF CURVE	N	NORTH	TEMP	TEMPORARY
DHV	DESIGN HOUR VOLUME	Ϋ́	NORTH GRID COORDINATE	TLE	TEMPORARY LIMITED EASEMENT
DIA OR Ø	DIAMETER	OE	OUTLET ELEVATION	T	TON
DIST	DISTRICT	OL	OUT LOT	TC	TOP OF CURB
DWY	DRIVEWAY	OD	OUTSIDE DIAMETER	TN	TOWN
E .	EAST	OH	OVERHEAD LINES	TRANS	TRANSITION
X	EAST GRID COORDINATE	PAVT	PAVEMENT	T	TRUCKS (percent of)
EB	EASTBOUND	PLE	PERMANENT LIMITED EASEMENT	TYP	TYPICAL
ELEC	ELECTRIC	PC	POINT OF CURVATURE	UNCL	UNCLASSIFIED
EL OR ELEV	ELEVATION	ΡΪ	POINT OF INTERSECTION	USH	UNITED STATES HIGHWAY
EMB	EMBANKMENT	PT	POINT OF TANGENCY	VAR	VARIABLE
EW	ENDWALL	PCC	PORTLAND CEMENT CONCRETE	VERT	VERTICAL
ESALS	EQUIVALENT SINGLE	LB	POUND	VC	VERTICAL CURVE
2525	AXLE LOADS	PE	PRIVATE ENTRANCE	VOL	VOLUME
EXC	EXCAVATION	R OR RAD	RADIUS	WM	WATER MAIN
EBS	EXCAVATION BELOW	RR	RAILROAD	WV	WATER VALVE
	SUBGRADE	R	RANGE	W	WEST
EXIST	EXISTING	R OR R∕L	REFERENCE LINE	wB	WESTBOUND
EXP	EXPANSION	REOD	REQUIRED	YD	YARD
F-F	FACE TO FACE	RT	RIGHT	. 3	IAND
FERT	FERTILIZER	R/W	RIGHT-OF-WAY		
FE	FIELD ENTRANCE	RD	ROAD		

DESIGN CONTACT

MSA PROFESSIONAL SERVICES, INC. ATTN.: JOSHUA SWENO 1230 SOUTH BOULEVARD BARABOO, WI 53913 PHONE: 608-355-8852 jsweno@msa-ps.com

RAILROAD CONTACT

UNION PACIFIC RAILROAD COMPANY ATTN: JOHN VENICE 101 NORTH WACKER DRIVE CHICAGO, IL 60606 PHONE: 312-777-2043 jnvenice@up.com

DNR LIAISON

DEPARTMENT OF NATURAL RESOURCES ATTN: ERIC HEGGELUND ENVIRONMENTAL ANALYSIS AND REVIEW SPECIALIST 3911 FISH HATCHERY ROAD FITCHBURG, WI 53711 PHONE: 608-275-3301 eric.heggelund@wisconsin.gov

COUNTY CONTACT

COLUMBIA COUNTY ATTN: CHRIS HARDY, COMMISSIONER 303 OLD HIGHWAY 16 WEST P.O. BOX 875 WYOCENA, WI53969 PHONE: 608-429-2136 chris.hardy@co.columbia.wi.us

UTILITIES

BURIED TELEPHONE: CENTURYLINK ATTN: TIM KROEZE 201 STARK P.O. BOX 98 RANDOLPH, WI 53956 PHONE: 920-326-2224 tim.kroeze@centurylink.com

OVERHEAD ELECTRIC: ADAMS-COLUMBIA ELECTRIC COOP ATTN: SHAWN PIETRZAK 401 EAST LAKE STREET P.O. BOX 70 FRIENDSHIP, WI 53934 PHONE: 800-831-8629 spietrzak@acecwi.com

OVERHEAD ELECTRIC: WE ENERGIES ATTN: DAN SANDE 333 WEST EVERETT STREET A299 MILWAUKEE, WI 53203 PHONE: 414-221-4578 dan.sande@we-energies.com

* - NOT A MEMBER
OF DIGGERS HOTLINE.



RUNOFF COEFFICIENT TABLE

		HYDROLOGIC SOIL GROUP										
	A			В		С		D				
	SLOPE	RANGE	(PERCENT)	SLOPE	SLOPE RANGE (PERCENT)		SLOPE	SLOPE RANGE (PERCENT)		SLOPE RANGE (PERCENT)		(PERCENT)
LAND USE:	0-2	2-6	6 & OVER	0-2	2-6	6 & OVER	0-2	2-6	6 & OVER	0-2	2-6	6 & OVER
ROW CROPS	.08	.16 .30	.22 .38	.12	.20 .34	.27 .44	.15	.24 .37	.33 .50	.19	.28 .41	.38 .56
MEDIAN STRIP- TURF	.19	.20 .26	.24	.19 .25	.22	.26 .33	.20 .26	.23	.30 .37	.20 .27	.25 .32	.30
SIDE SLOPE- TURF			.25 .32			.27 .34			.28 .36			.30 .38
PAVEMENT:									ı	•		
ASPHAL T						.7095						
CONCRETE	.8095											
BRICK	.7080											
DRIVES, WALKS	MALKS .7585											
ROOFS	ROOFS .7595											
GRAVEL ROADS.	SHOULDE	RS				.4060						

TOTAL PROJECT AREA = 1.51 ACRES

TOTAL AREA EXPECTED TO BE DISTURBED BY CONSTRUCTION ACTIVITIES = 1.14 ACRES

HWY: CTH M

GENERAL NOTES

DISTURBED AREAS WITHIN THE RIGHT-OF-WAY, EXCEPT THE AREAS WITHIN THE FINISHED SHOULDER POINTS, SHALL BE FERTILIZED, SEEDED AND COVERED WITH SOIL STABILIZER TYPE A, AS DIRECTED BY THE ENGINEER. SOIL STABILIZER TYPE A IS TO BE APPLIED AT A RATE OF 4500 LB/ACRE.

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

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

ELEVATIONS SHOWN ON THIS PLAN ARE REFERENCED TO USGS NAVD 88 GEOID 09. BENCHMARKS WERE LOCATED IN THE FIELD USING GPS TECHNOLOGY. USE THE CONTROL POINTS AND BENCHMARKS IN THE PLAN FOR LAYOUT.

THE 4" ASPHALTIC SURFACE SHALL CONSIST OF A $1\frac{7}{4}$ " UPPER LAYER AND A $2^{1}\!\!/_4$ " LOWER LAYER. USE $1\!\!/_2$ " NOMINAL AGGREGATE.

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

COUNTY: COLUMBIA

GENERAL NOTES. ABBREVIATIONS & UTILITIES

PLOT NAME:

SHEET

FILE NAME: P:\2900s\2990s\2995\02995000\cadd\DOT\Planshts\2995000GN.dgn

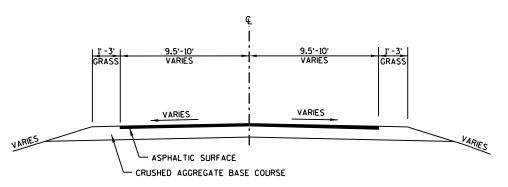
PLOT DATE : 7/9/2015

PLOT BY : bhalley

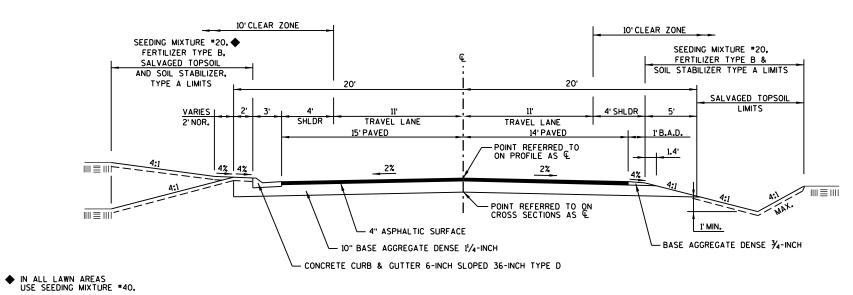
PLOT SCALE : 1:10

PROJECT NO:6723-00-71





TYPICAL EXISTING SECTION



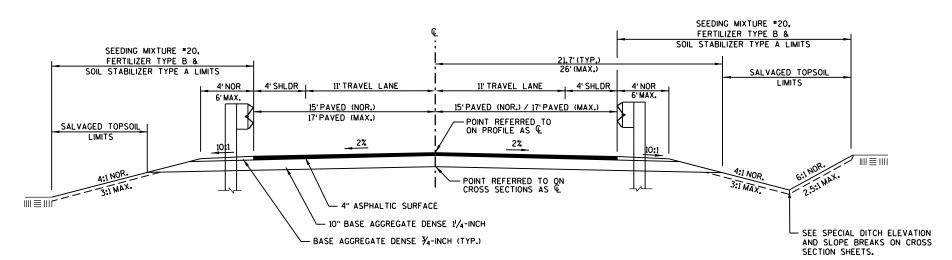
TYPICAL FINISHED SECTION

STA. 6+50 TO STRUCTURE

PROJECT NO:6723-00-71 HWY:CTH M COUNTY:COLUMBIA TYPICAL SECTIONS SHEET **E**

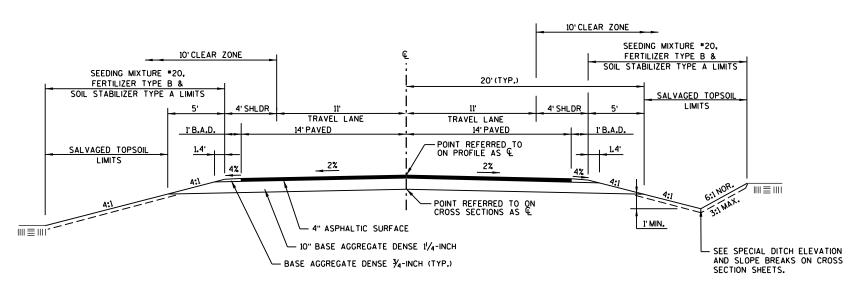
FILE NAME: P:\2900s\2990s\2995\02995000\caddWDOT\Planshts\2995000XC.dgn

PLOT NAME :



TYPICAL FINISHED SECTION

STRUCTURE TO STA. 12+06, RT. STRUCTURE TO STA. 12+32, LT.

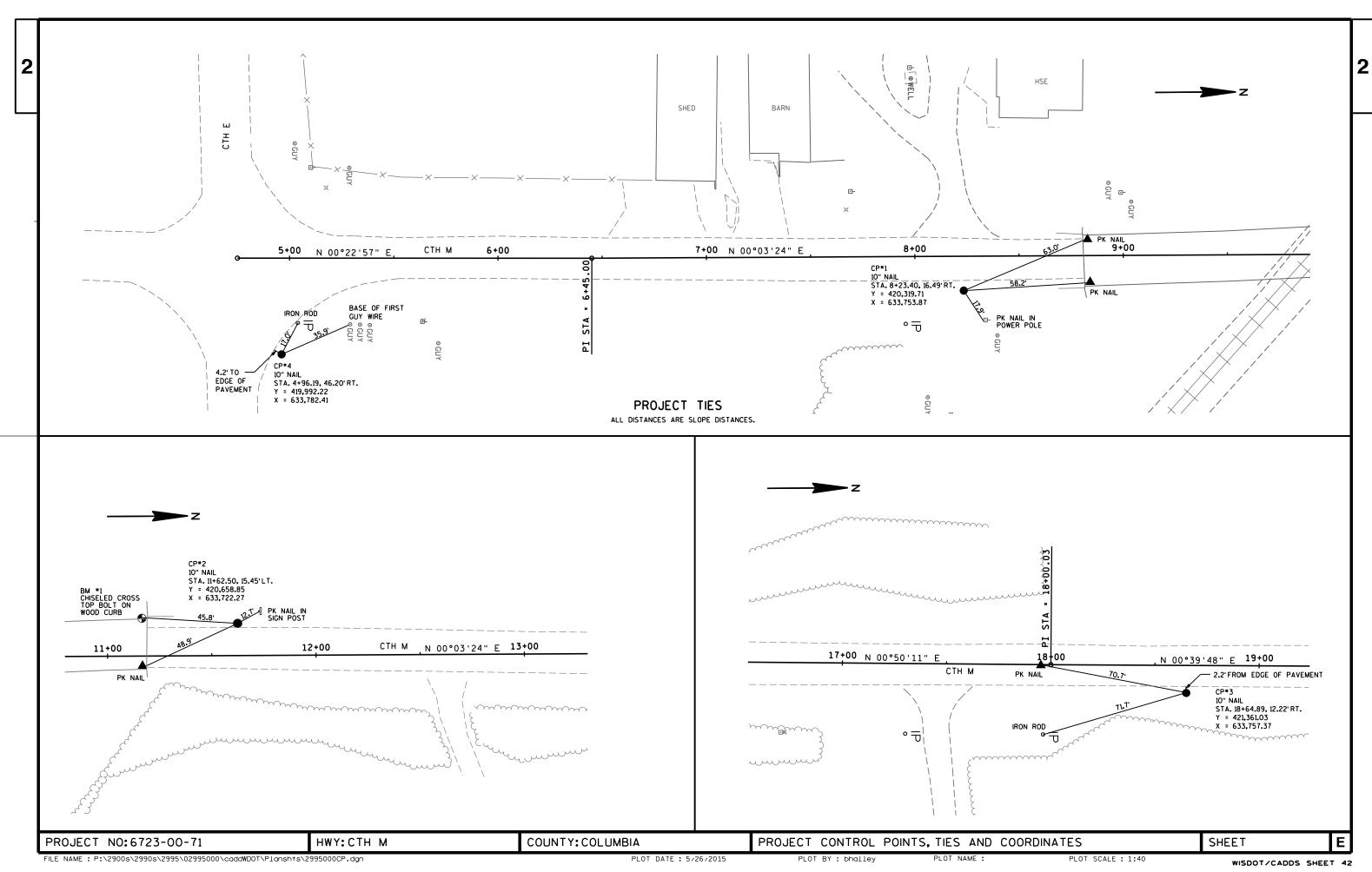


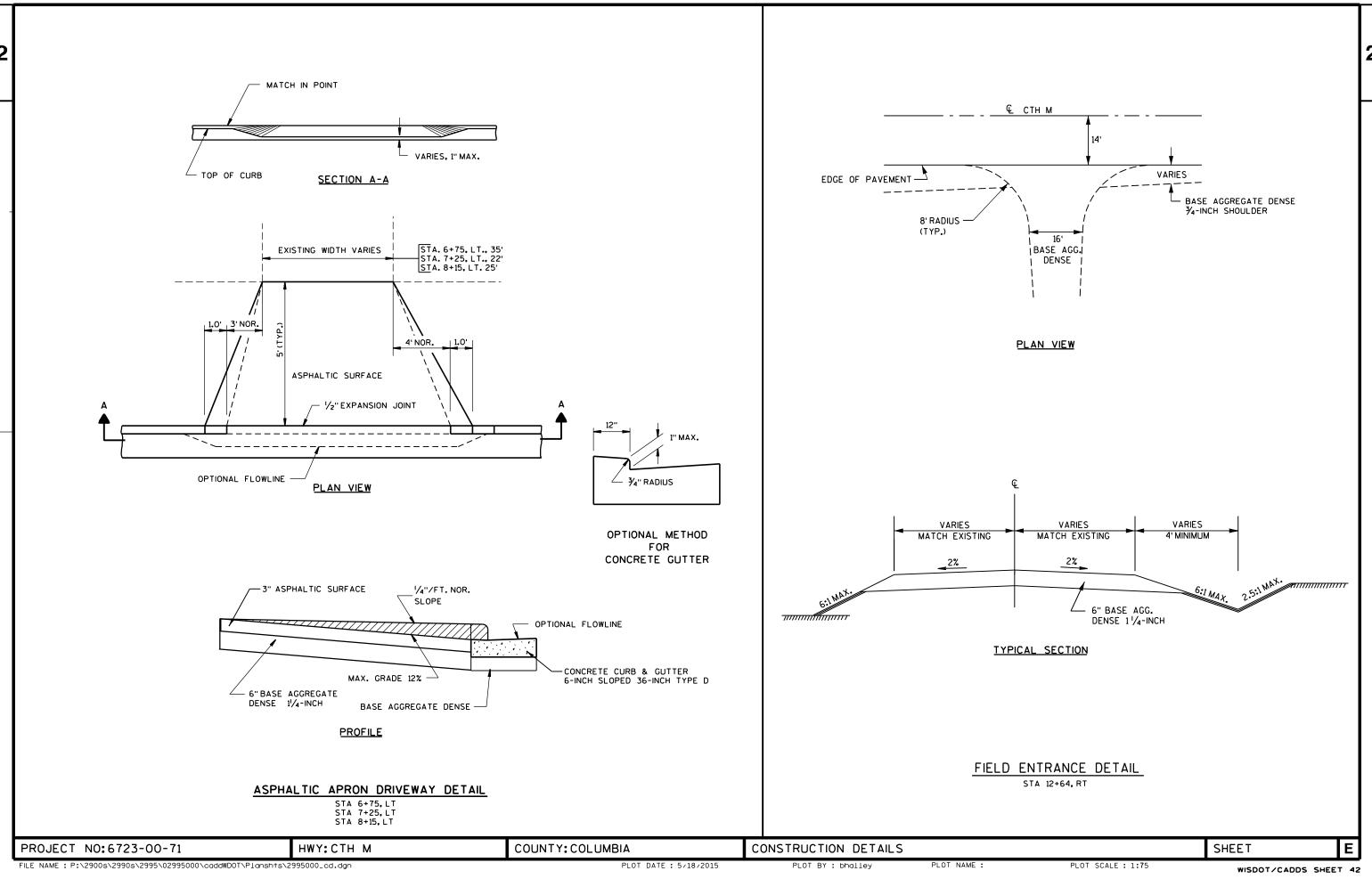
TYPICAL FINISHED SECTION

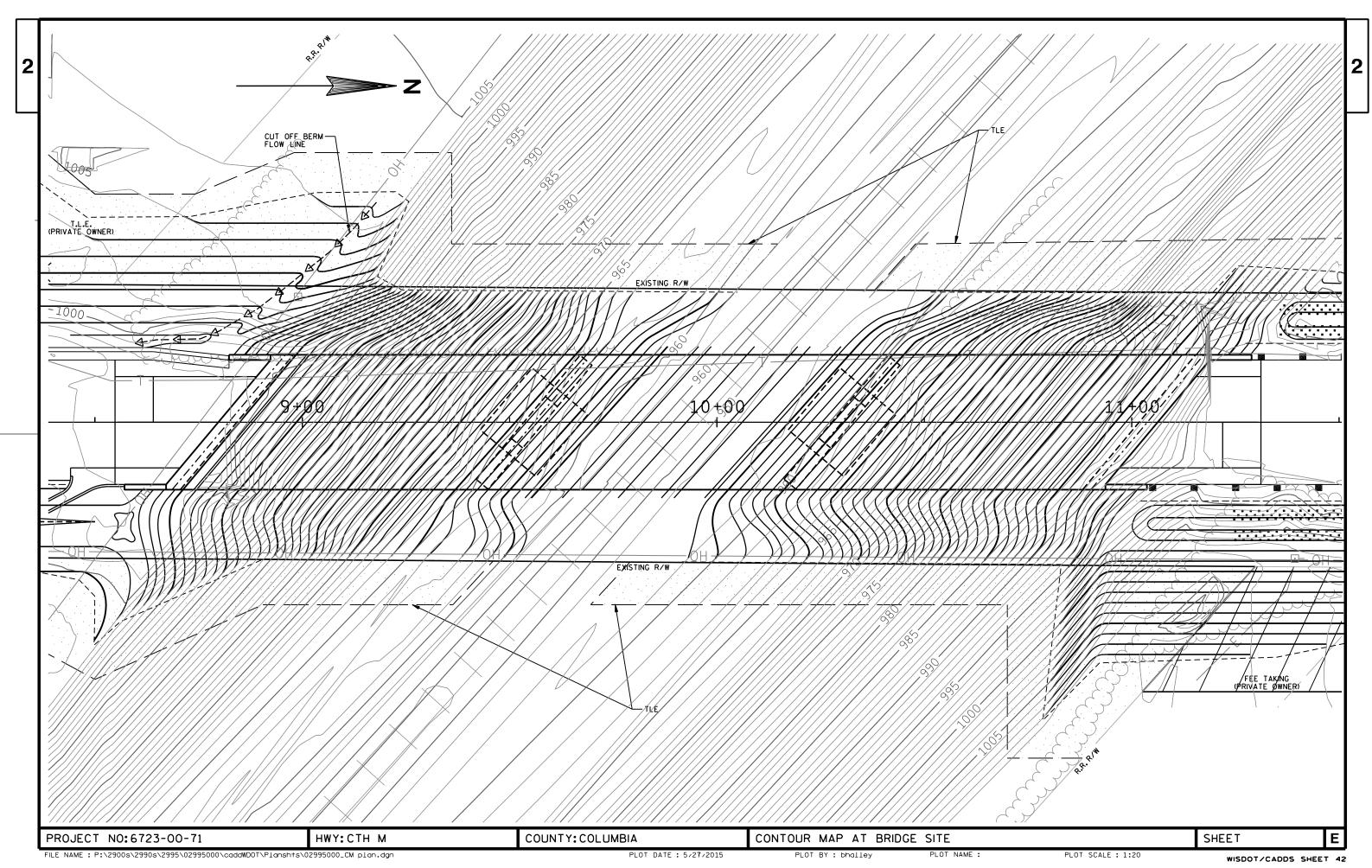
STA. 12+06, RT - STA. 13+30 STA. 12+32, LT - STA. 13+30

PROJECT NO:6723-00-71 HWY:CTH M COUNTY:COLUMBIA TYPICAL SECTIONS SHEET **E**

PLOT NAME :







DATE 03	DEC15	EST	гіматі	E O F Q U A N	
LI NE NUMBER	ITEM	ITEM DESCRIPTION	UNI T	TOTAL	6723-00-71 QUANTI TY
0460	625.0500	Sal vaged Topsoi I	SY	1, 650. 000	1, 650. 000
0470	627. 0200	Mul chi ng	SY	100.000	100.000
0480	628. 1504	Silt Fence	LF	200.000	200.000
0490	628. 1520	Silt Fence Maintenance	LF	200.000	200. 000
0500	628. 1905	Mobilizations Erosion Control	EACH	2. 000	2. 000
0510	628. 1910	Mobilizations Emergency Erosion Control	EACH	2. 000	2. 000
0520	628. 2023	Erosion Mat Class II Type B	SY	400.000	400.000
0530	628. 6505	Soil Stabilizer Type A	ACRE	1. 100	1. 100
0540	628. 7504	Temporary Ditch Checks	LF	100.000	100. 000
0550	628. 7555	Culvert Pipe Checks	EACH	10. 000	10. 000
0560	628. 7570	Rock Bags	EACH	10.000	10. 000
0570	629. 0210	Fertilizer Type B	CWT	2. 100	2. 100
0580	630. 0120	Seeding Mixture No. 20	LB	80.000	80. 000
0590	630. 0140	Seeding Mixture No. 40	LB	10.000	10. 000
0600	631. 1000	Sod Lawn	SY	5. 000	5. 000
0610	633. 5100	Markers Row	EACH	11. 000	11. 000
0620	634. 0612	Posts Wood 4x6-Inch X 12-FT	EACH	8. 000	8. 000
0630	637. 0620	Sign Flags Permanent Type II	EACH	4. 000	4. 000
0640	637. 2210	Signs Type II Reflective H	SF	4. 200	4. 200
0650	637. 2230	Signs Type II Reflective F	SF	33. 000	33. 000
0660	638. 2602	Removing Signs Type II	EACH	5. 000	5. 000
0670	638. 3000	Removing Small Sign Supports	EACH	10.000	10. 000
0680	642. 5001	Field Office Type B	EACH	1.000	1.000
0690	643. 0100	Traffic Control (project) 01. 6723-00-71	EACH	1.000	1. 000
0700	645. 0130	Geotextile Fabric Type R	SY	20. 000	20. 000
0710	646. 0106	Pavement Marking Epoxy 4-Inch	LF	2, 720. 000	2, 720. 000
0720	650. 4500	Construction Staking Subgrade	LF	454.000	454.000
0730	650. 5000	Construction Staking Base	LF	454.000	454. 000
0740	650. 5500	Construction Staking Curb Gutter and	LF	227. 000	227. 000
0750	650. 6000	Curb & Gutter Construction Staking Pipe Culverts	EACH	1. 000	1. 000
0760	650. 6500	Construction Staking Structure Layout	LS	1. 000	1. 000
0770	4E0 0010	(structure) 01. B-11-156	1.0	1 000	1 000
0770	650. 9910	Construction Staking Supplemental Control (project) 01. 6723-00-71	LS	1. 000	1. 000
0780	650. 9920	Construction Staking Slope Stakes	LF	454.000	454.000
0780	690. 0150	Sawing Asphal t	LF	70. 000	70. 000
0800	715. 0502	Incentive Strength Concrete Structures	DOL	4, 284. 000	4, 284. 000
				· 	
0810		S Sei smograph	LS	1.000	1. 000
0820		S Crack and Damage Survey	LS	1.000	1. 000
0830	ASP. 1TOA	On-the-Job Training Apprentice at \$5. OO/HR	HRS	700. 000	700. 000
0840	ASP. 1TOG	On-the-Job Training Graduate at \$5.00/HR	HRS	600.000	600. 000
0850	SPV. 0165	Special 01. Temporary Shoring Railroad	SF	955. 000	955. 000
	2. 1. 0.00	The second secon	=-		

CLEARING GRUBBING STATION STATION LOCATION STA STA LT & RT 13+30 8+00 6 TOTALS:

204.0185 REMOVING MASONRY

		REMOVING
		MASONRY
STATION	LOCATION	CY
7+12	LT	4
	TOTALS:	4

205.0100 EXCAVATION COMMON

			EXC. COMMON	FILL	EXPANDED FILL	WASTE	
STATION	-	STATION	CY	CY (1)	CY (1) (2)	CY (1)	
6+50	-	8+79.75	810	31	41	769	
11+06.25	-	13+30	1448	34	44	1404	
FILL BELOW S	LOPE F	PAVING, N. ABUT.	0	384	500	-500	*
		TOTALS:	2258	449	585	1673	

(1) - NOT A BID ITEM - FOR INFORMATIONAL PURPOSES ONLY

(2) - FILL EXPANSION 30%

* SEE NOTE ON SHEET 1 OF THE STRUCTURE PLANS FOR PLACEMENT OF WASTE MATERIAL AS FILL IN FRONT OF THE NORTH ABUTMENT

305.0110 BASE AGGREGATE DENSE 3/4-INCH 305.0120 BASE AGGREGATE DENSE 1 1/4-INCH 624.0100 WATER

			BASE AGGREGATE DENSE 3/4-INCH	BASE AGGREGATE DENSE 1 1/4-INCH	WATER*
STATION	-	STATION	TON	TON	MGAL
6+20.00	-	8+79.75	9	590	9
11+06.25	-	13+30.00	22	580	9
		TOTALS:	31	1170	18

*ADDITIONAL QUANTITY INCLUDED WITH EROSION CONTROL ITEMS

415.0080 CONCRETE PAVEMENT 8-INCH 415.0410 CONCRETE PAVEMENT APPROACH SLAB

			PAVEMENT	APPROACH
			8-INCH	SLAB
STATION	-	LOCATION	SY	SY
8+55	-	8+92	31	50
10+94	-	11+31	31	50
TOTAL:			62	100

455.0605 TACK COAT

465.0105 ASPHALTIC SURFACE

465.0120 ASPHALTIC SURFACE DRIVEWAYS AND FIELD ENTRANCES

				ASPHALTIC	ASPHALTIC
			TACK COAT	SURFACE	SURFACE DW'S & FE'S
STATION	-	STATION	GAL	TON	TON
6+20.00	-	8+54.85	33	147	
11+21.25	-	13+30.00	31.5	141	
P.E. AT	STATIO	N 6+75	1		4
P.E. AT	STATIO	N 7+25	0.5		2
P.E. AT	STATIO	N 8+15	1		3
		TOTALS:	67	288	9

203.0100 REMOVING SMALL PIPE CULVERTS

520.1015 APRON ENDWALLS FOR CULVERT PIPE 15-INCH

520.3315 CULVERT PIPE CLASS III-A 15-INCH

REMOVING

			PIPE	ENDWALLS	PIPE *	
	STATION	LOCATION	EACH	EACH	LF	
	7+25 LT	PRIVATE ENTRANCE	1	-	-	
	12+64 RT	FIELD ENTRANCE	1	2	36	
_						
_		TOTAL:	2	2	36	

416.1010 CONCRETE SURFACE DRAINS

606.0200 RIPRAP MEDUIM

645.0130 GEOTEXTILE FABRIC TYPE R

		DRAIN	RIPRAP	FABRIC
STATION	LOCATION	CY	CY	SY
 8+27 - 8+55	RT	1.5	1.2	20
	TOTALS:	1.5	1.2	20

465.0310 ASPHALT CURB 465.0315 ASPHALT FLUMES 631.1000 SOD LAWN

		CURB	FLUME	SOD
STATION	LOCATION	LF	SY	SY
6+30 - 6+55	LT	27	7	5
	TOTALS:	27	7	5

601.0557 CONCRETE CURB & GUTTER 6-INCH SLOPED 36-INCH TYPE D

STATION	LOCATION	CURB LF
6+55 - 8+83	LT	228
	TOTALS:	228

PROJECT NO: 6723-00-71 HWY: CTH M FILE NAME: P:\2900a\2990a\2995\02995000\Eatimate\2995000_MiscOty & Earthwork Bordera.dgn COUNTY: COLUMBIA

MISCELLANEOUS QUANTITIES PLOT BY : janyder

PLOT NAME :

SHEET

WISDOT/CADDS SHEET 43

614.2300 MGS GUARDRAIL 3

614.2500 MGS THRIE BEAM TRANSITION

614.2610 MGS GUARDRAIL TERMINAL EAT

				GUARDRAIL 3	THRIE BEAM	MGS EAT
STATION	-	STATION	LOCATION	LF	LF	EACH
11+01.15	-	11+40.55	RT	-	39.4	-
11+27.40	-	11+66.80	LT	-	39.4	-
11+40.55	-	11+53.05	RT	12.5	-	-
11+66.80	-	11+79.30	LT	12.5	-	-
11+53.05	-	12+06.18	RT	-	-	1
11+79.30	-	12+23.43	LT	-	-	1
			TOTALS:	25	78.8	2

625.0100 TOPSOIL

625.0500 SALVAGED TOPSOIL

627.0200 MULCHING

628.6505 SOIL STABILIZER, TYPE A

629.0210 FERTILIZER TYPE B

630.0120 SEEDING MIXTURE NO. 20 630.0140 SEEDING MIXTURE NO. 40

624.0100 WATER

				TOPSOIL	SALVAGED TOPSOIL	MULCHING	SOIL STABILIZER	FERTILIZER TYPE B	SEEDING #20	SEEDING #40	WATER*
STATION	-	STATION	LOCATION	SY	SY	SY	ACRE	CWT	LB	LB	MGAL
6+20	-	8+65	LT	0	430		0.1	0.25	7	7	32
6+50	-	8+30	RT	0	155		0.1	0.15	7	0	13
8+30	-	9+50	RT	250	0		0.1	0.15	7	0	13
8+65	-	10+10	LT	310	0		0.1	0.20	8	0	16
9+90	-	11+00	RT	230	0		0.1	0.15	6	0	12
10+25	-	11+25	LT	135	0		0.1	0.10	4	0	7
11+00	-	13+30	RT	0	675		0.2	0.50	21	0	40
11+25	-	13+30	LT	0	235		0.1	0.20	9	0	18
UNDI	STRIBU	TED		75	155	100	0.2	0.40	11	3	0
		TOTALS:		1000	1650	100	1.1	2.10	80	10	151

^{*}ADDITIONAL QUANTITY INCLUDED WITH BASE AGGREGATE ITEMS

628.2023 EROSION MAT CLASS II TYPE B

				CLASS II
				TYPE B
STATION	-	STATION	LOCATION	SY
7+90	-	9+30	RT	36
11+25		12+50	RT	111
11+35		13+20	LT	164
12+80		13+25	RT	40
UNDI	UNDISTRIBUTED			49
			TOTALS:	400

628.1504 SILT FENCE

628.1520 SILT FENCE MAINTENANCE

				FENCE	MAINT.
STATION	1 -	STATION	LOCATION	LF	LF
6+15	-	6+60	LT	55	55
6+45	-	7+70	RT	130	130
UN	UNDISTRIBUTED			15	15
			TOTALS:	200	200

628.1905 MOBILIZATION EROSION CONTROL

628.1910 MOBILIZATION EMERGENCY EROSION CONTROL

DESCRIPTION	MOBILIZATION	EMERGENCY MOB.
PROJECT 6723-00-71	2	2
TOTALS:	2	2

628.7504 TEMPORARY DITCH CHECKS

		TEMPORARY DITCH CHECKS
STATION	LOCATION	LF
7+85	RT	13
12+00	LT & RT	26
12+60	LT	13
12+95	RT	13
13+25	LT & RT	26
UNDISTRIBUTED		9
	TOTAL:	100

628.7555 CULVERT PIPE CHECKS 628.7570 ROCK BAGS

		CULVERT	
		PIPE	ROCK
		CHECKS	BAGS
STATION	LOCATION	EACH	EACH
6+30	LT	-	10
12+55	RT	10	-
	TOTALS:	10	10

633.5100 MARKERS ROW

STATION	LOCATION	EACH
6+50.00	LT	1
6+50.00	RT	1
11+02.56	RT	1
11+29.78	RT	1
11+88.90	LT	1
12+00.00	RT	1
12+01.73	LT	1
13+00.00	LT	1
13+00.00	RT	1
13+30.00	LT	1
13+30.00	RT	1
	TOTAL:	11

PROJECT NO: 6723-00-71

HWY: CTH M

COUNTY: COLUMBIA

MISCELLANEOUS QUANTITIES

PLOT NAME :

PLOT SCALE : 1:20

SHEET

WISDOT/CADDS SHEET 43

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634.0612 POSTS WOOD 4x6-INCH x 12-FT
637.0620 SIGN FLAGS PERMANENT TYPE II
637.2210 SIGNS TYPE II REFLECTIVE TYPE H
637.2230 SIGNS TYPE II REFLECTIVE TYPE F
638.2602 REMOVING SIGNS TYPE II
638.3000 REMOVING SMALL SIGN SUPPORTS

			WOOD	SIGN		I SIGNS TYPE II		REMOVING SMALL	
		SIGN	POSTS	FLAGS		REFECTIVE F		SIGN SUPPORTS	
STATION	LOCATION	CODE	EACH	EACH	SF	SF	EACH	EACH	COMMENTS
5+70	RT	-	-	-	-	-	-	1	5 TON BRIDGE SIGN (REMOVE AND STOCKPILE)
6+19	RT	-	-	-	-	-	-	1	SPEED ZONE AHEAD SIGN (REMOVED AND STOCKPILE)
8+48	RT	-	-	-	-	-	-	1	5 TON LIMIT & SPEED ZONE 5 MPH SIGNS (REMOVE AND STOCKPILE)
8+55	RT	W5-52R	1	-	-	3	-	-	OBJECT MARKER
8+81	LT & RT	-	-	-	-	-	2	2	OBJECT MARKERS AT EXISTING BRIDGE
8+81	LT	W5-52L	1	-	-	3	-	-	OBJECT MARKER
8+81	LT	M2-1 & M1-5A	1	-	4.2	-	-	-	JUNCTION & CTH E
11+05	RT	W5-52L	1	-	-	3	-	-	OBJECT MARKER
11+19	LT & RT	-	-	-	-	-	2	2	OBJECT MARKERS AT EXISTING BRIDGE
11+30	LT	W5-52R	1	-	-	3	-	-	OBJECT MARKER
11+50	LT	-	-	-	-	-	1	1	EXISTING JUNCTION & CTH E
11+73	LT	-	-	-	-	-	-	1	5 TON LIMIT & SPEED ZONE 5 MPH SIGNS (REMOVE AND STOCKPILE)
13+30	LT & RT	W3-1	2	-	-	12.5	-	-	STOP AHEAD SYMBOL
13+30	LT & RT	-	-	4	-	-	-	-	ATTACH FLAGS TO STOP AHEAD SIGNS
15+00	LT	W7-6 & W13-1	1	-	-	8.5	-	-	HILL BLOCKS VIEW & ADVISORY SPEED LIMIT (25MPH)
15+70	LT	-	-	-	-	-	-	1	EXISTING STOP AHEAD SIGN (REMOVE AND STOCKPILE)
		TOTALS:	8	4	4.2	33	5	10	·

646.0106 PAVEMENT MARKING EPOXY 4-INCH

			DOUBLE YELLOW CL SOLID	SINGLE WHITE EDGELINE
STATION	-	STATION	LF	LF
6+50	-	13+30	1360	1360

650.4500 CONSTRUCTION STAKING SUBGRADE
650.5000 CONSTRUCTION STAKING BASE
650.5500 CONSTRUCTION STAKING CURB & GUTTER
650.6000 CONSTRUCTION STAKING PIPE CULVERTS

650.9910 CONSTRUCTION STAKING SUPPLEMENTAL CONTROL 6723-00-71

650.9920 CONSTRUCTION STAKING SLOPE STAKES

			SUBGRADE	BASE	CURB & GUTTER	PIPE CULVERTS	SUPPLEMENTAL CONTROL	SLOPE STAKES
STATION	-	STATION	LF	LF	LF	EACH	LS	LF
6+50	-	8+80	230	230	227	-	-	230
11+06	-	13+30	224	224	-	-	-	224
8+80	-	11+06	-	-	-	-	-	-
12+64, RT			-	-	-	1	-	-
		TOTALS:	454	454	227	1	1	454

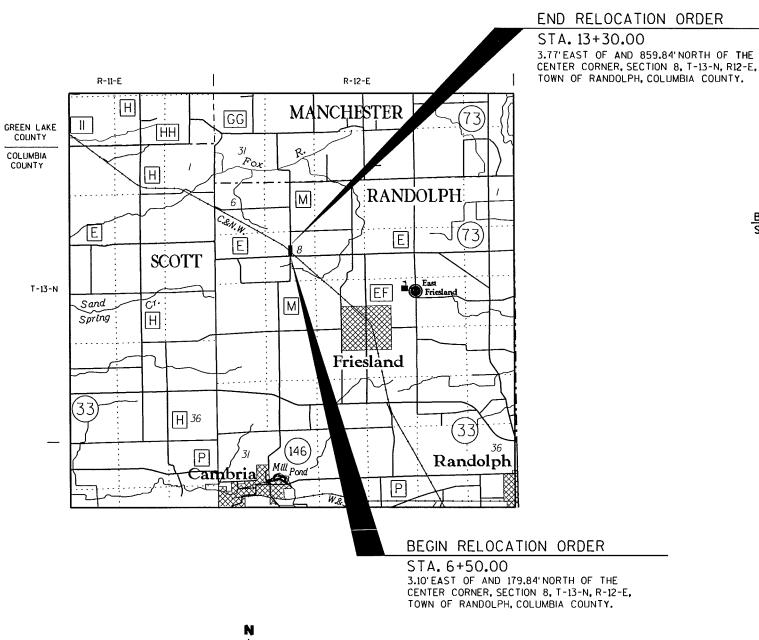
690.0150 SAWING ASPHALT

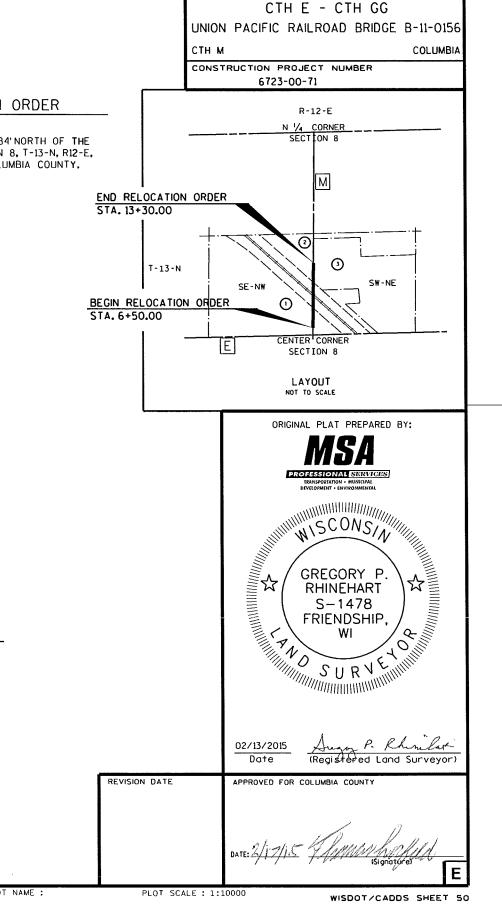
LF
50
20
70

PROJECT NO: 6723-00-71 HWY: CTH M COUNTY: COLUMBIA MISCELLANEOUS QUANTITIES SHEET E

PLOT BY : janyder







R/W PROJECT NUMBER

FEDERAL PROJECT NUMBER

6723-00-01

PLAT OF RIGHT-OF-WAY REQUIRED FOR

SHEET TOTAL

4.01

FILE NAME : P:\2900s\2990s\2995\02995000\caddWDOT\Planshts\RW TS 4-01.dgn

COORDINATES AND BEARINGS ON THIS PLAT ARE ORIENTED TO THE WISCONSIN COUNTY COORDINATE SYSTEM, COLUMBIA COUNTY ZONE, NAD 83 (2012) ADJUSTMENT. THE COORDINATES

SHOWN ARE GRID COORDINATES AND ARE TO BE USED AS GRID

RIGHT-OF-WAY BOUNDARIES ARE DEFINED WITH COURSES OF THE PERIMETER OF THE HIGHWAY LANDS REFERENCED TO THE U.S. PUBLIC

LAND SURVEY SYSTEM OR OTHER SURVEYS OF PUBLIC RECORD.

RIGHT-OF-WAY MONUMENTS WILL BE PLACED PRIOR TO THE

OR GROUND VALUES ON THIS PLAT.

COMPLETION OF THE PROJECT.

PLOT DATE : 2/13/2015

LAYOUT

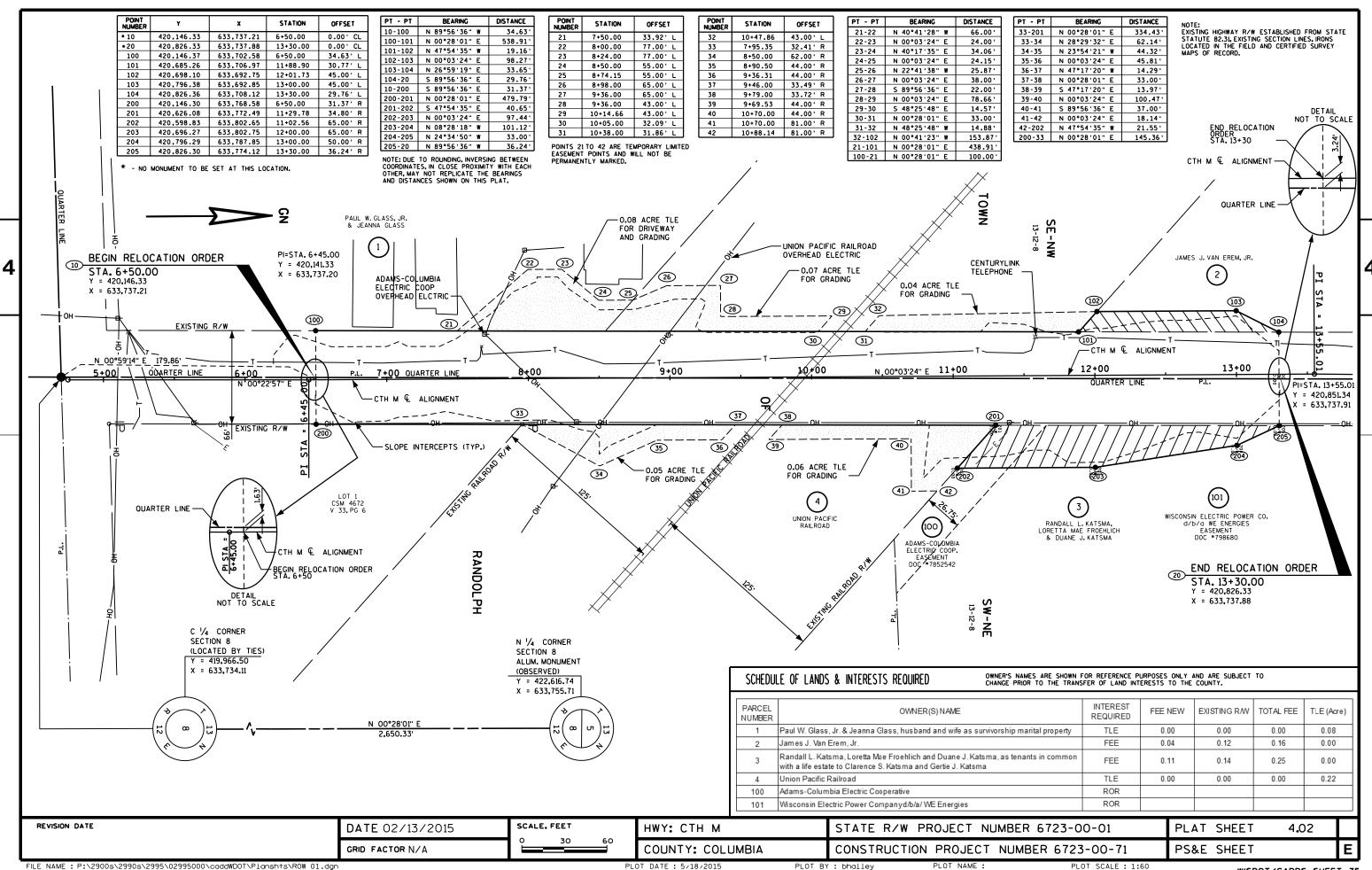
TOTAL NET LENGTH OF CENTERLINE = 0.129 MI.

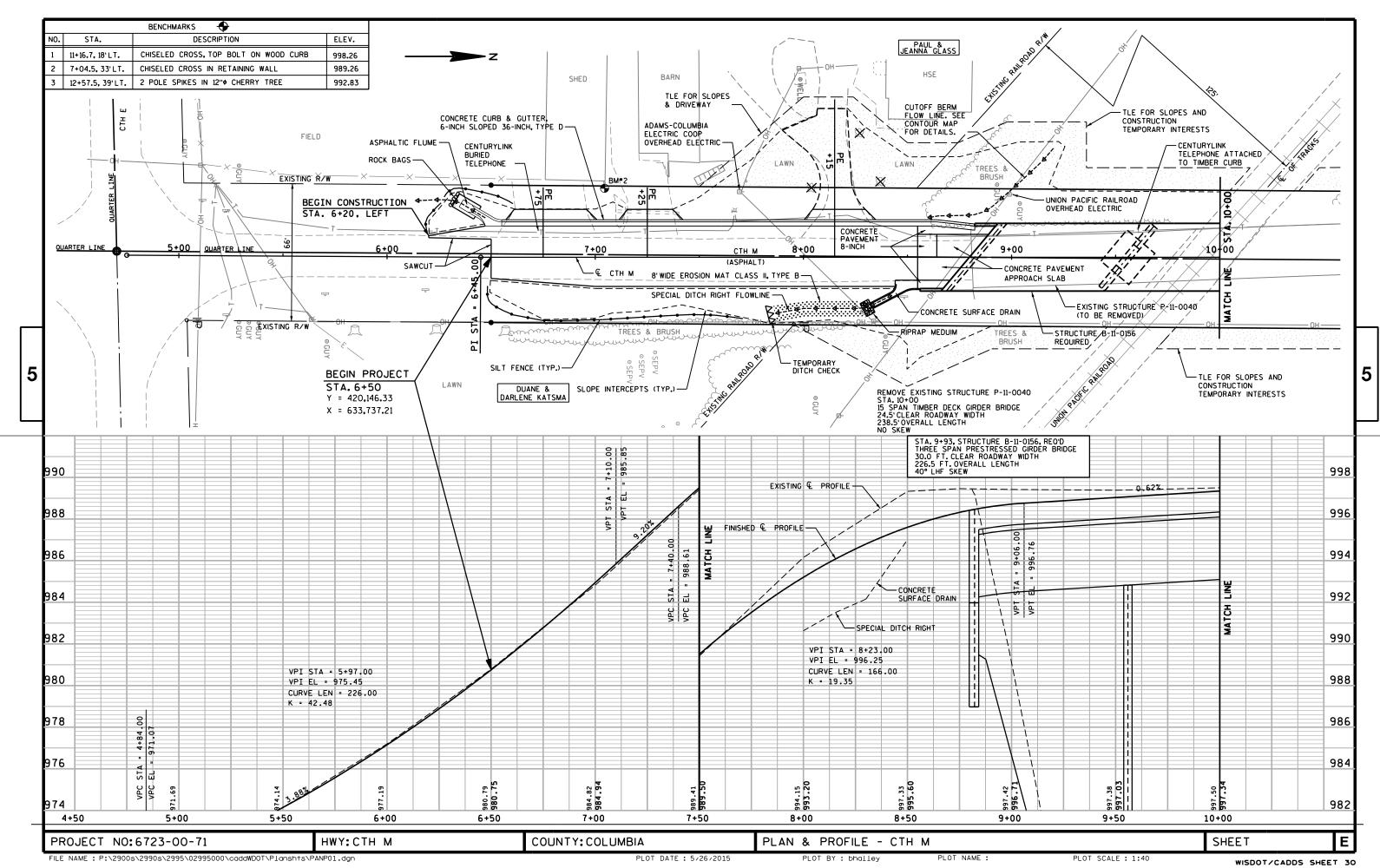
SCALE 0

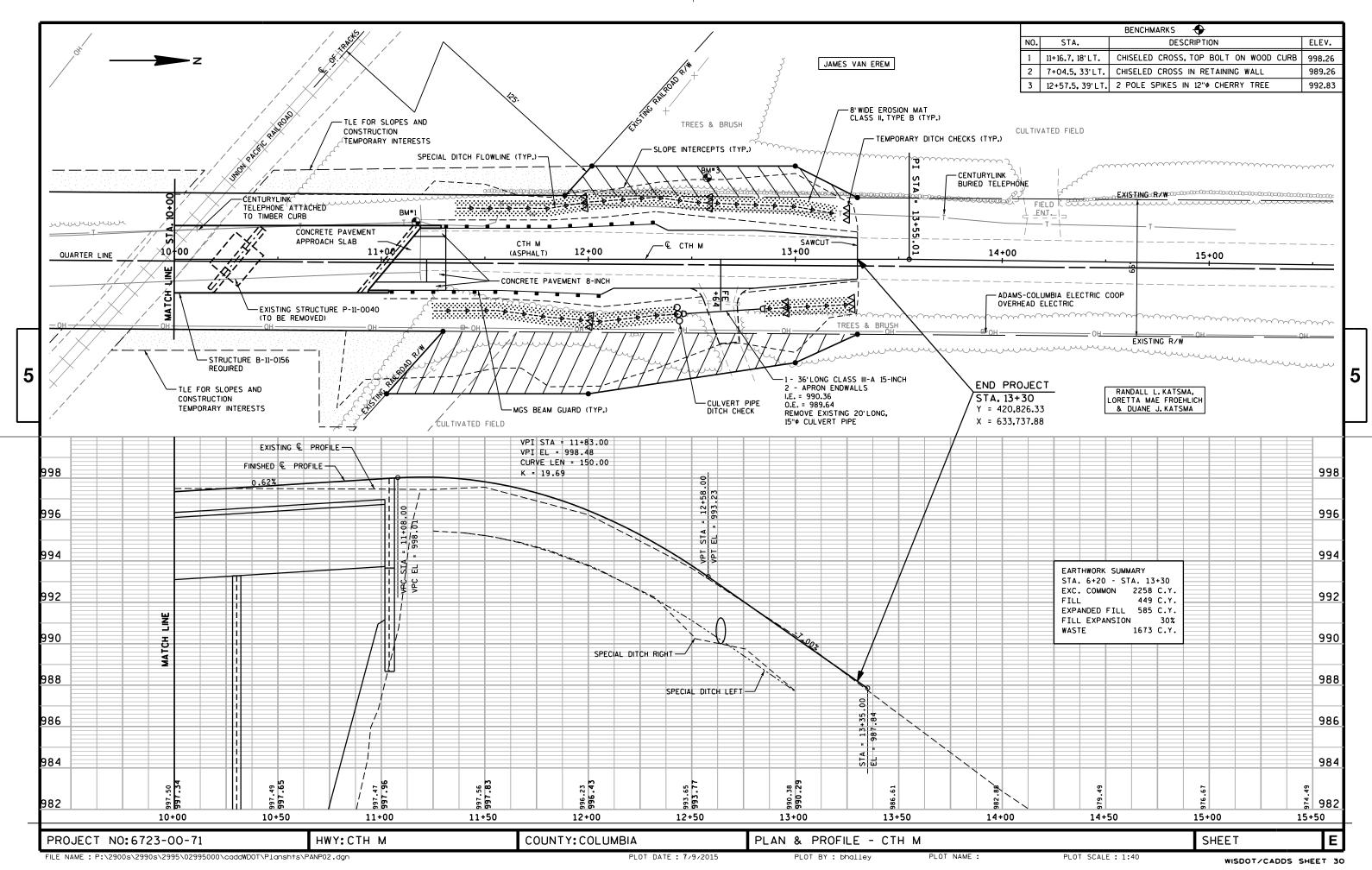
PLOT NAME :

PLOT BY: bhalley

NOTES

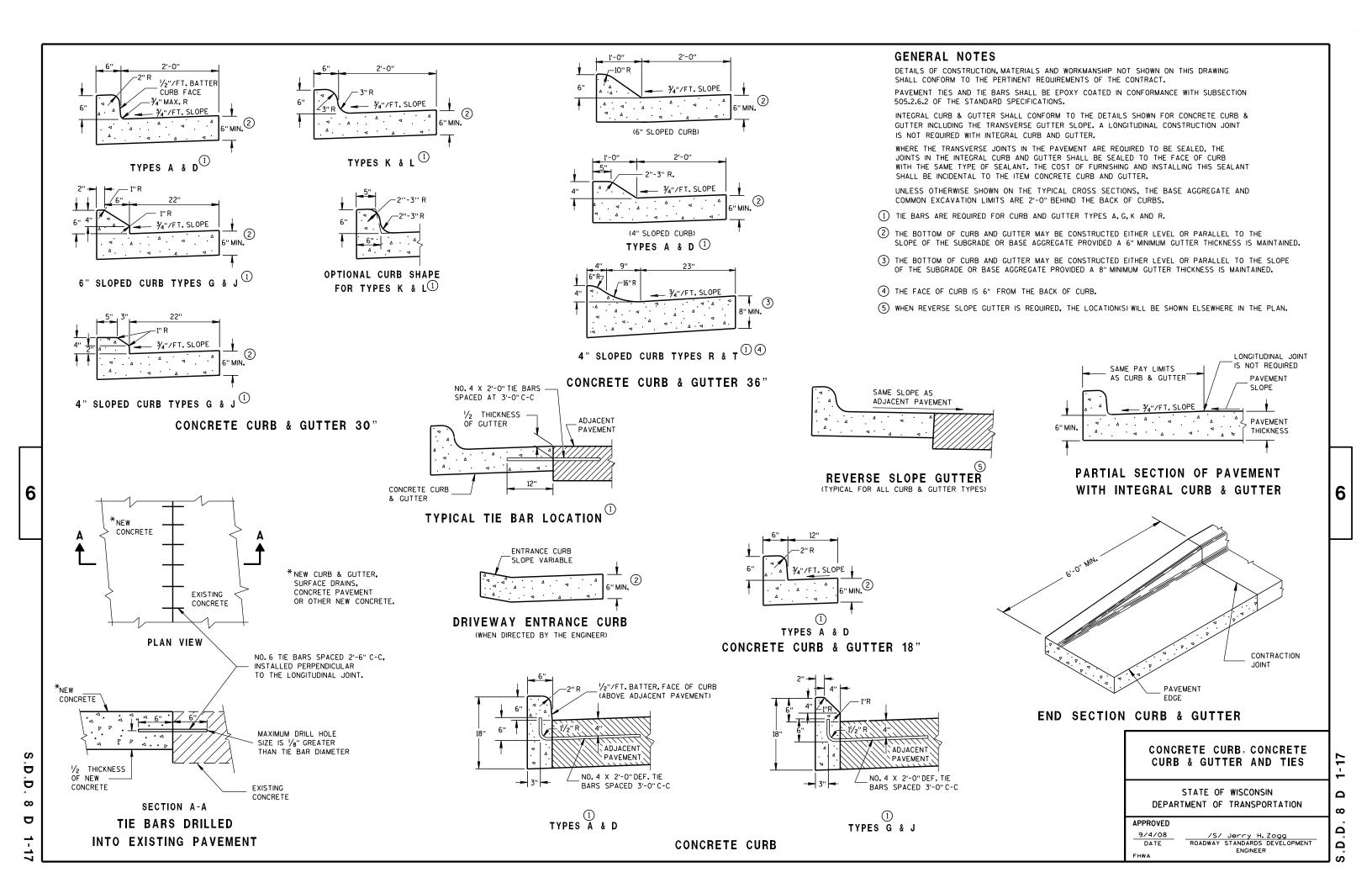


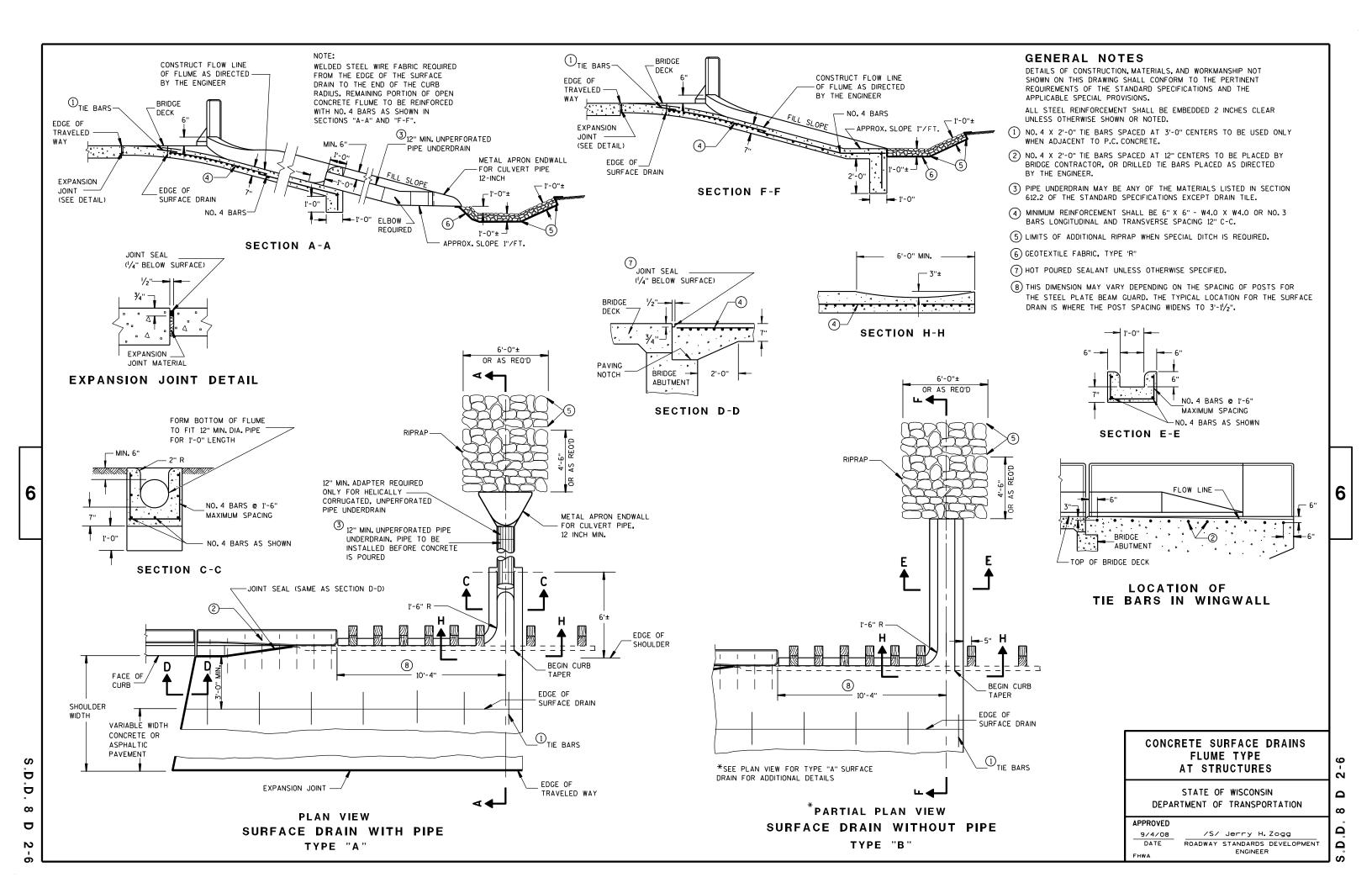


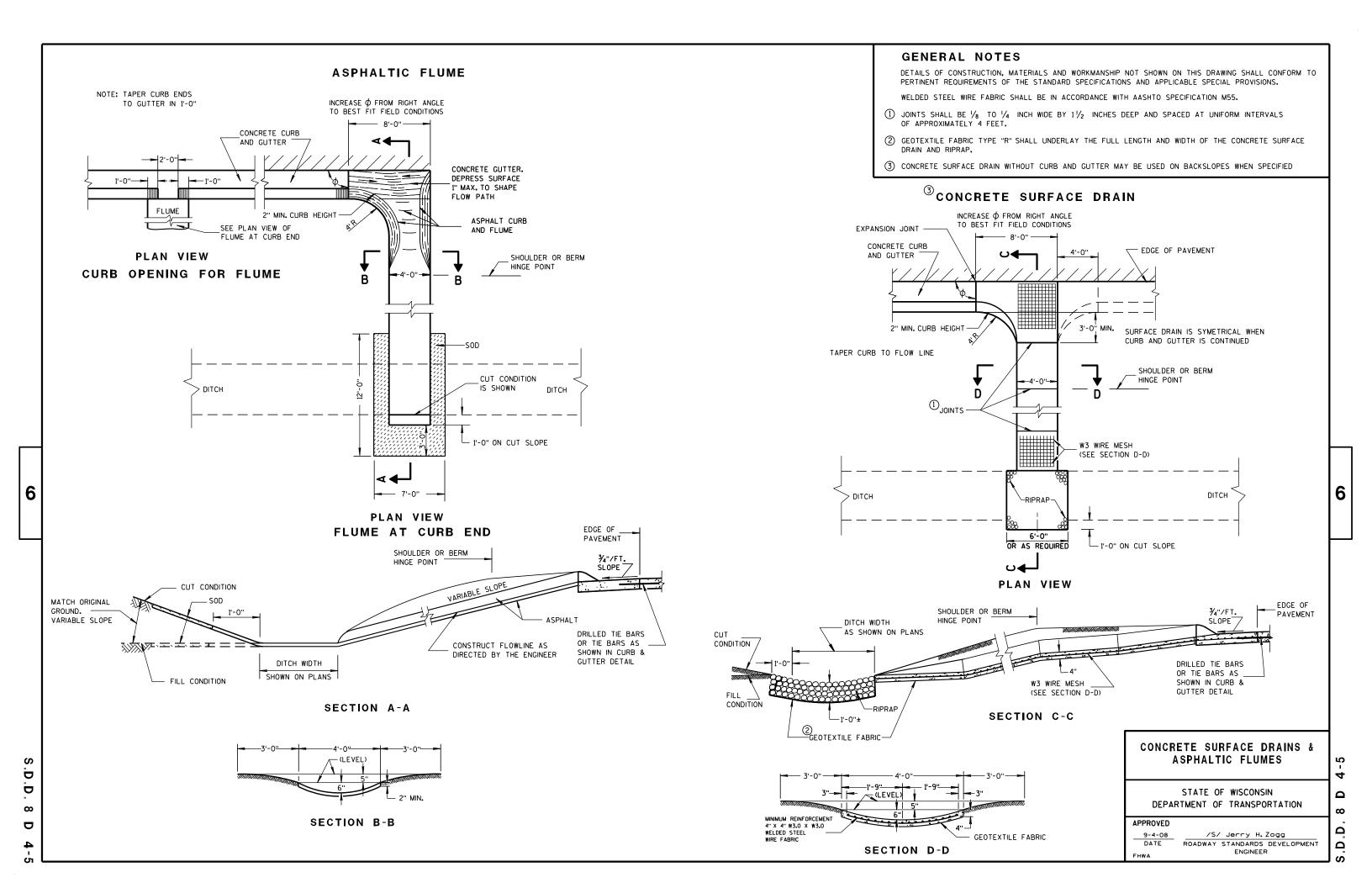


Standard Detail Drawing List

08D01-17 08D02-06 08D04-05 08E08-03 08E09-06	CONCRETE CURB, CONCRETE CURB AND GUTTER AND TIES CONCRETE SURFACE DRAINS FLUME TYPE AT STRUCTURES CONCRETE SURFACE DRAINS & ASPHALTIC FLUMES TYPICAL INSTALLATIONS OF EROSION BALES / TEMPORARY DITCH CHECKS SILT FENCE
08F01-11	APRON ENDWALLS FOR CULVERT PIPE
08F04-07	
12A03-10	NAME PLATE (STRUCTURES)
13A03-06	CONCRETE PAVEMENT SHOULDERS
13B02-08A	CONCRETE PAVEMENT APPROACH SLAB
13C01-18	CONCRETE PAVEMENT LONGITUDINAL JOINTS AND TIES
14B42-03A	MIDWEST GUARDRAIL SYSTEM (MGS) GUARDRAIL
14B42-03B	MIDWEST GUARDRAIL SYSTEM (MGS) GUARDRAIL
14B42-03C	
14B44-02A	
14B44-02B	MIDWEST GUARDRAIL SYSTEM ENERGY ABSORBING TERMINAL (MGS)
14B44-02C	
14B45-04A	
14B45-04B	
14B45-04C	
14B45-04D	
14B45-04I	
14B45-04J	
15A01-12A	MARKER POST FOR RIGHT-OF-WAY
15C02-05A	
	BARRICADES AND SIGNS FOR MAINLINE CLOSURES
15C06-07	
15C08-16A	PAVEMENT MARKING (MAINLINE)







GENERAL NOTES

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

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



WHEN ALTERING THE DIRECTION OF FLOW



PLAN VIEW



FRONT ELEVATION

WHEN EXISTING GROUND SLOPES AWAY FROM FILL SLOPE

EROSION BALES FOR SHEET FLOW

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

STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION

APPROVED

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

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TYPICAL APPLICATION OF SILT FENCE

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PLAN VIEW SILT FENCE AT MEDIAN SURFACE DRAINS



GENERAL NOTES

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

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



TRENCH DETAIL



SILT FENCE TIE BACK
(WHEN REQUIRED BY THE ENGINEER)

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
4-29-05 /S/ Beth Cannestra

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

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

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

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







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

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

DIMPLED BAND MAY BE USED WITH HELICALLY

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

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

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

* EXCEPT CENTER PANEL SEE GENERAL NOTES





SHOULDER

SLOPE



SIDE ELEVATION METAL ENDWALLS



**MAXIMUM





CONCRETE ENDWALLS

CONNECTION DETAILS



SECTION A-A

GENERAL NOTES

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

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

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

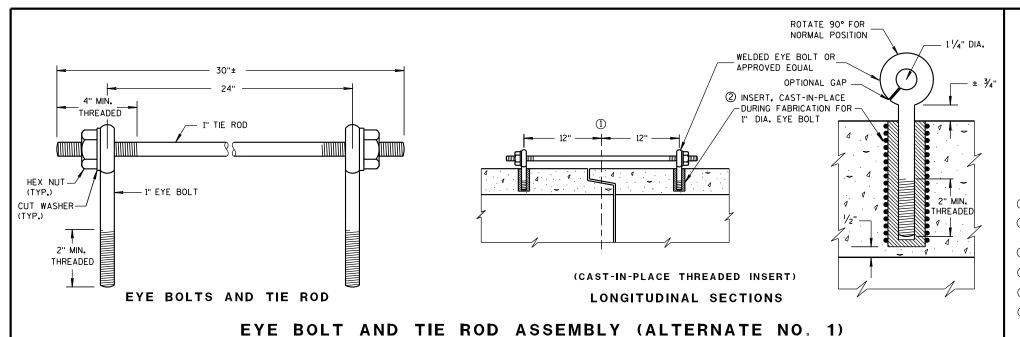
LAP SEAMS SHALL BE TIGHTLY JOINED BY GALVANIZED RIVETS OR BOLTS FOR STEEL UNITS AND ALUMINUM RIVETS AND BOLTS FOR ALUMINUM UNITS. FOR THE 60" THROUGH 96" DIAMETER APRON ENDWALL SIZES. THE REINFORCED EDGES AND CENTER PANEL SEAMS SHALL BE FURTHER REINFORCED WITH GALVANIZED STEEL OR ALUMINUM STIFFENER ANGLES.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

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

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



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



GENERAL NOTES

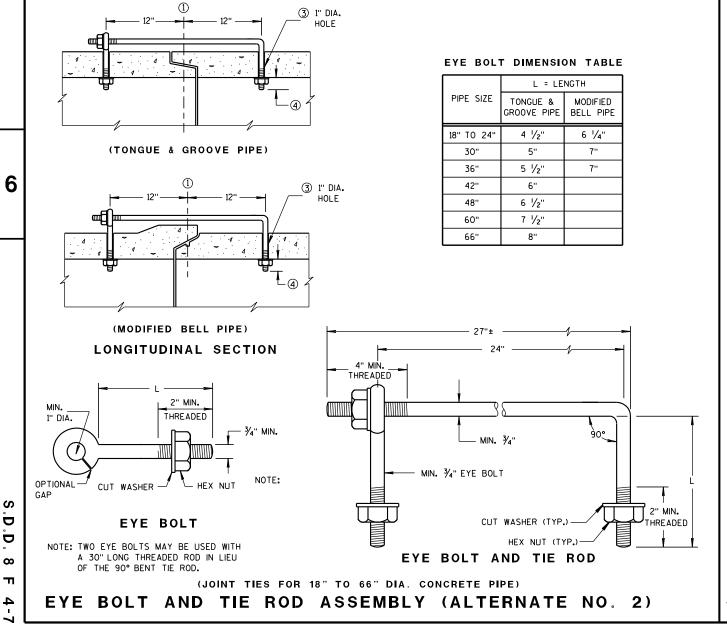
DETAILS OF CONSTRUCTION, MATERIALS, AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS AND APPLICABLE SPECIAL PROVISIONS.

CONCRETE CULVERT AND STORM SEWER PIPE SHALL BE TIED TOGETHER IN THE MANNER ILLUSTRATED BY THIS DETAIL AT LOCATIONS DESIGNATED IN THE STANDARD SPECIFICATIONS AND THE PLAN. THE CONTRACTOR MAY USE EITHER ALTERNATE 1, 2 OR 3 FOR DRAINAGE STRUCTURES, ONLY ALTERNATE 1 AND 3 MAY BE USED FOR CATTLE PASSES, UNLESS OTHERWISE STATED IN THE CONTRACT. THE MATERIALS, FABRICATION AND WORK NECESSARY TO TIE THE PIPE BY THIS DETAIL WILL BE CONSIDERED INCIDENTAL TO THE PIPE AND APRON ENDWALLS IF REQUIRED.

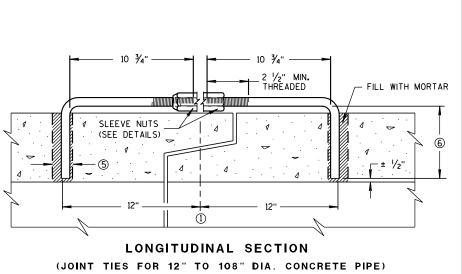
DETAILED DRAWINGS FOR PROPOSED ALTERNATE DESIGNS FOR JOINT TIES SHALL BE SUBMITTED TO THE ENGINEER FOR APPROVAL.

JOINT TIES TO BE HOT-DIP GALVANIZED PER ASTM A 153.

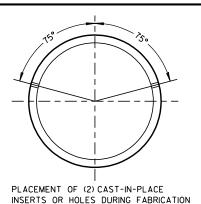
- (1) & OF TONGUE AND GROOVE OR BELL AND SPIGOT JOINTS.
- THE INSIDE OF THE THREADED INSERTS SHALL BE CLEAN TO ALLOW THE INSERTION OF THREADED EYE
- ${\mathfrak S}$ HOLES SHALL BE CAST-IN-PLACE OR DRILLED 12 INCHES FROM ${\mathfrak L}$ OF TONGUE AND GROOVE.
- 4 BOLT PROJECTION INSIDE OF PIPE SHALL NOT EXCEED 2 INCHES.
- (5) OPENING TO BE ROD DIAMETER PLUS 1 INCH.
- ⑥ LENGTH ADEQUATE TO EXTEND TO WITHIN $rac{1}{2}$ INCH OF THE INNER SURFACE OF THE PIPE.



ADJUSTABLE TIE ROD TABLE 5/8 5 12-60 3/4 5 1/2 3/4 90-108 DIMENSIONS SHOWN ARE IN INCHES **TAPERED** PLAIN RIGHT AND LEFT THREADS **SLEEVE NUTS** 2 1/2" MIN. THREADED

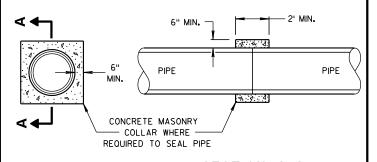


ADJUSTABLE TIE ROD (ALTERNATE NO. 3)



FOR PIPE SECTIONS REQUIRING TIE RODS

TRANSVERSE SECTION



SECTION A-A

CONCRETE COLLAR DETAIL

JOINT TIES FOR CONCRETE PIPE AND CONCRETE COLLAR DETAIL

STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION

6/5/2012 /S/ Jerry H. Zogg DATE ROADWAY STANDARDS DEVELOPMENT ENGINEER

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TYPICAL NAME PLATE

(BRIDGES, CULVERTS, AND RETAINING WALLS)



NUMBERING DESIGNATION MULTI-UNIT STRUCTURES

GENERAL NOTES

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

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

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



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

SECTION A-A

ALTERNATE LUG



ALTERNATE LUG

(FOR ATTACHMENT TO PRECAST STRUCTURES)

NAME PLATE (STRUCTURES)

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

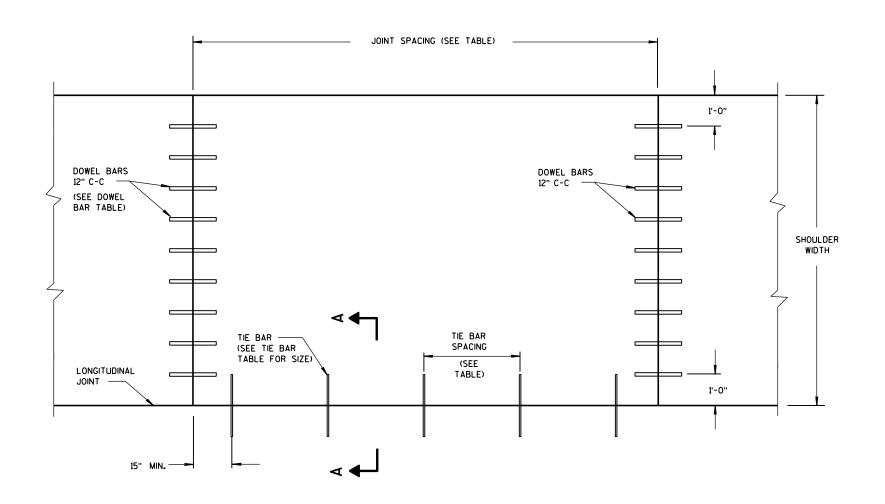
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3/26/IO /S/ SCOT BECKET

CHIEF STRUCTURAL DEVELOPMENT ENGINEER

D.D. 12 A

3-10



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.

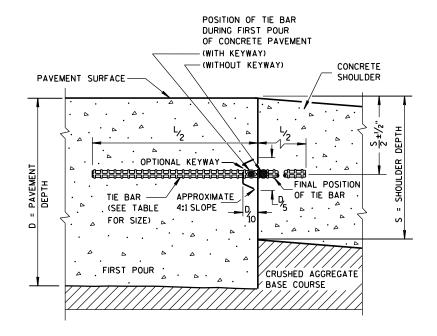
GENERAL NOTES

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

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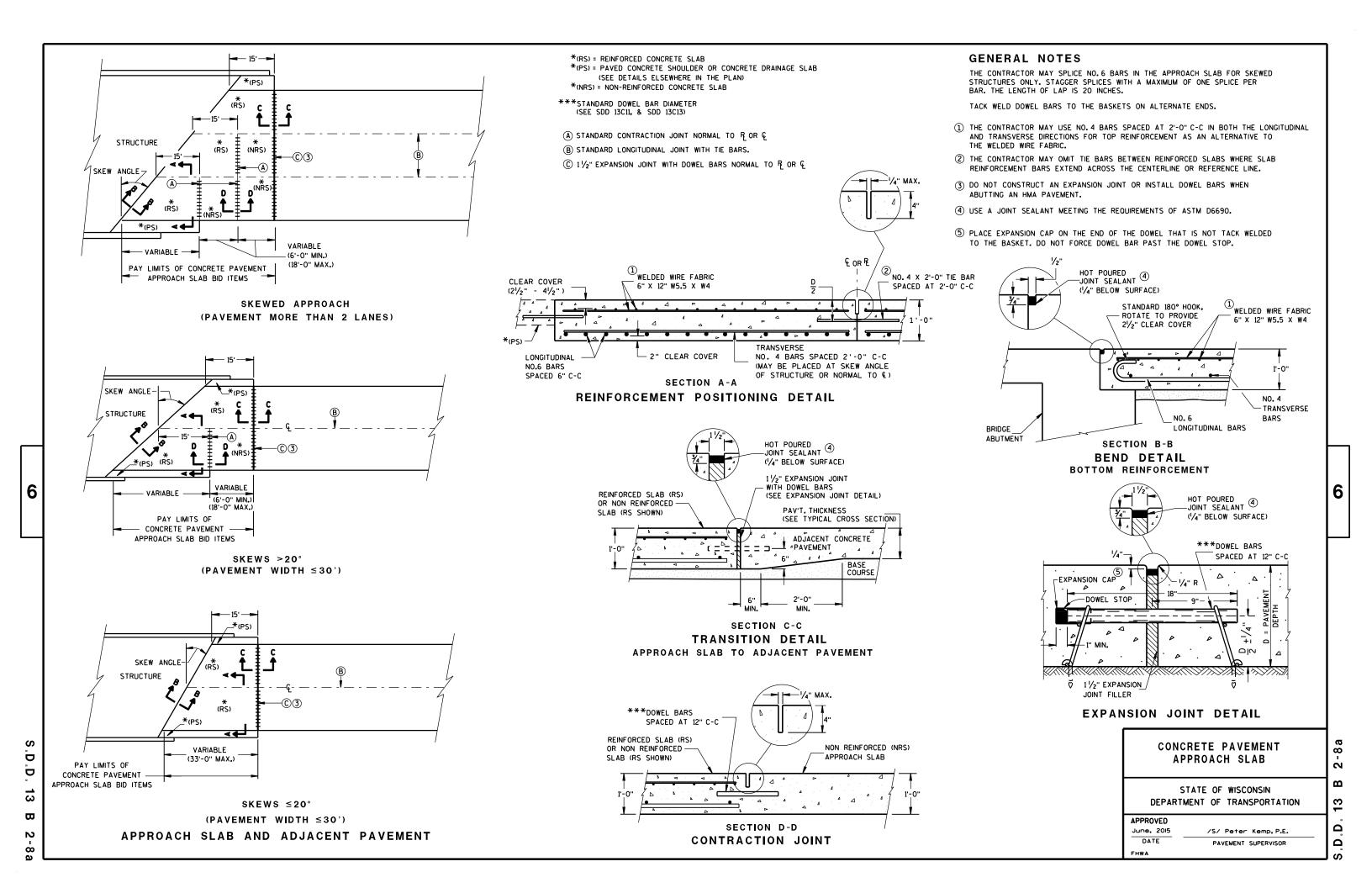
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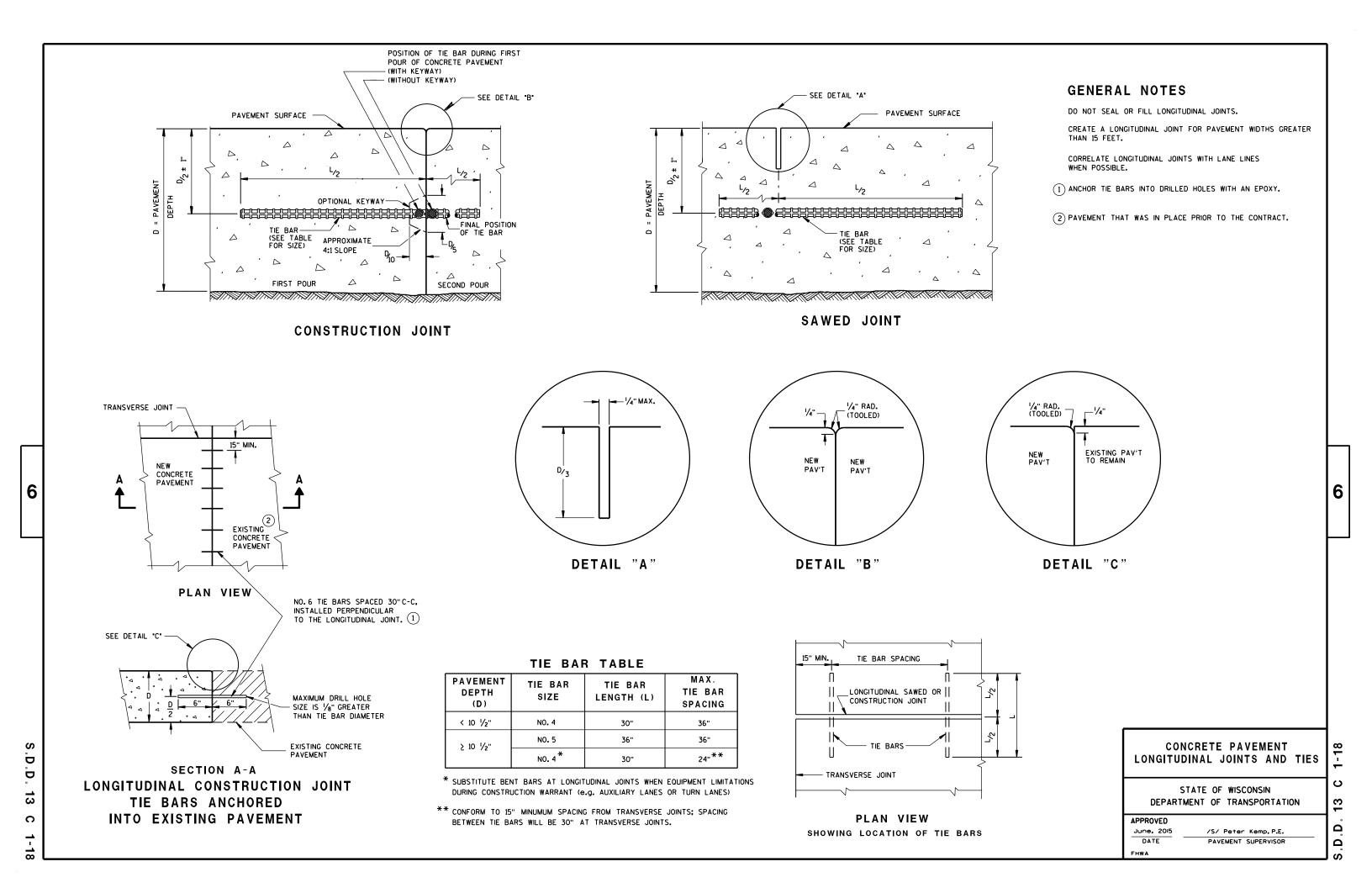
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STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION

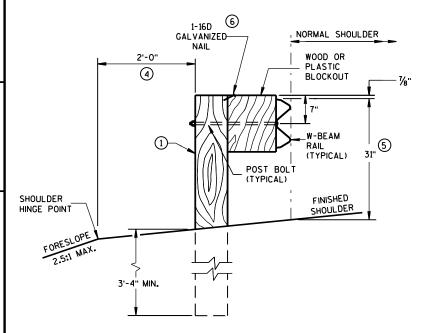
APPROVED	
June, 2015	/S/ Peter Kemp, P.E.
DATE	PAVEMENT SUPERVISOR





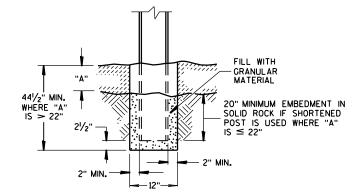
GENERAL NOTES

- (1) WOOD OR STEEL POSTS (W6X9 OR W6X8.5) MAY BE USED. DO NOT INTERMIX WOOD AND STEEL POSTS. INSTALL STEEL POSTS WITH HOLES ON APPROACHING TRAFFIC SIDE.
- 2 USE WOOD OR APPROVED PLASTIC BLOCKOUTS. WOOD BLOCKOUTS MAY BE CONSTRUCTED OUT OF TWO OR MORE WOOD BLOCKOUTS. SEE ALTERNATE WOOD BLOCKOUT DETAIL. DIMENSIONS OF APPROVED PLASTIC BLOCKOUTS MAY VARY.
- (3) IF ROCK IS ENCOUNTERED DURING EXCAVATION, PROVIDE A HOLE 12 INCHES IN DIAMETER EXTENDING 20 INCHES DEEP INTO THE ROCK. PLACE APPROXIMATELY 21/2 INCHES OF GRANULAR MATERIAL IN THE BOTTOM OF THE HOLE. CUT THE POSTS THE TO LENGTH AMD INSTALL. BACKFILL WITH EXCAVATED MATERIAL AND COMPACT. BACKFILL IS TO BE FREE OF LARGE ROCKS.
- (4) WHEN THE DISTANCE FROM BACK OF POST TO SHOULDER HINGE POINT IS LESS THAN 2 FEET INSTALL LONGER POST AT HALF POST SPACING (K).
- (5) FOR NEW MGS INSTALLATION TOP OF W-BEAM RAIL TOLERANCE IS ± 1". FOR EXISTING MGS INSTALLATION TOP OF W-BEAM IS BETWEEN 273/4" TO 32".
- (6) WHEN USING STEEL POST AND WOOD BLOCKOUTS INSTALL FOUR 16D GALVANIZED NAILS. INSTALL NAILS AT THE BACK CORNERS OF THE BLOCK AND BEND THE NAILS OVER THE FLANGE OF THE STEEL POST.



END VIEW

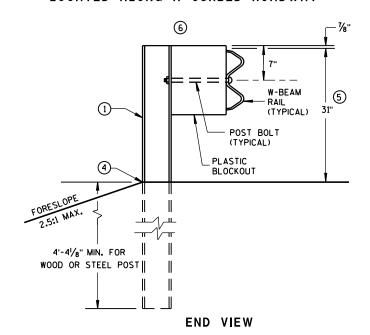
LOCATED ALONG A ROADWAY SHOULDER STANDARD INSTALLATION



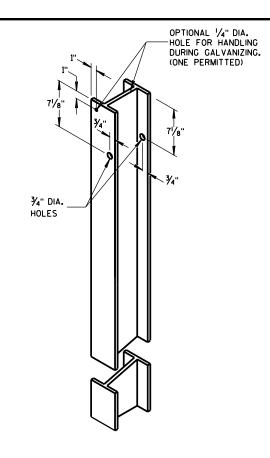
SETTING STEEL OR WOOD POST IN ROCK $^{\scriptsize{\textcircled{3}}}$



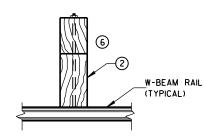
END VIEW
LOCATED ALONG A CURBED ROADWAY



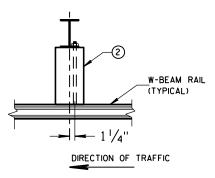
MGS LONGER POST AT HALFPOST SPACING W BEAM (K)



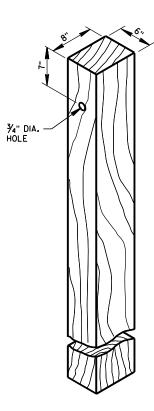
STEEL POST & HOLE PUNCHING DETAIL (w6X9)



PLAN VIEW
WOOD POST,
BLOCKOUT & BEAM



PLAN VIEW
STEEL POST,
PLASTIC BLOCKOUT & BEAM



WOOD POST (6" X 8") NOMINAL $^{\scriptsize \textcircled{1}}$



WOOD OR PLASTIC BLOCKOUT

MIDWEST GUARDRAIL SYSTEM (MGS) GUARDRAIL

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

S.D.D. 14 B 4

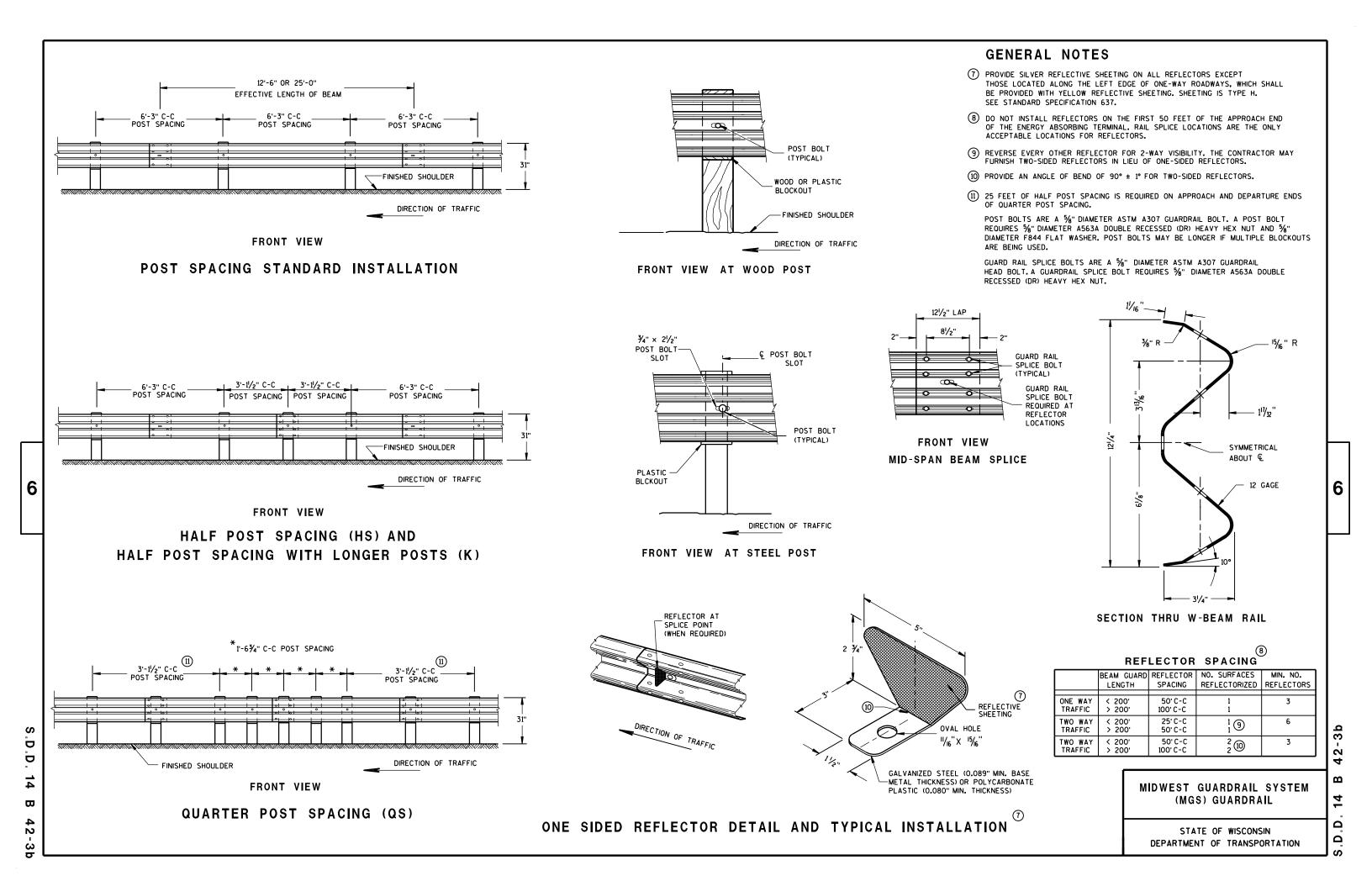
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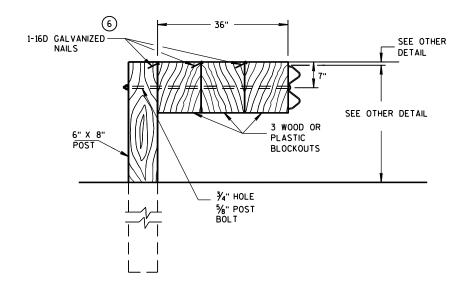
.D.D. 14 B

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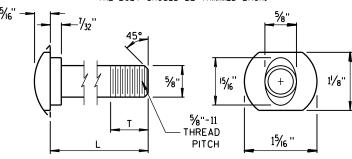


DETAIL FOR 36" BLOCKOUT DEPTH

NOTES: UNDER SPECIAL CIRCUMSTANCES, SUCH AS AVOIDING OBSTACLES THAT ARE NOT RELOCATED, IT IS ACCEPTABLE TO INSTALL ADDITIONAL BLOCKOUTS TO OBTAIN UP TO 36" DEPTH FOR ONE OR TWO POSTS IN A SECTION OF GUARDRAIL.

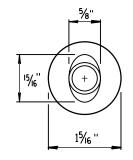
> DO NOT USE 16" OR 36" BLOCKOUTS IF IT CAUSES THE POST TO BE DRIVEN BEYOND SHOULDER HINGE POINT OR CAUSES A FIXED OBJECT TO BE WITHIN THE DEFLECTION DISTANCE OF THE BARRIER.

NOTE: 1. ALL FILLETS SHALL HAVE A MINIMUM RADIUS OF $\frac{1}{16}$ ". 2. IF THE BOLT EXTENDS MORE THAN 1/4" FROM THE NUT THE BOLT SHOULD BE TRIMMED BACK.

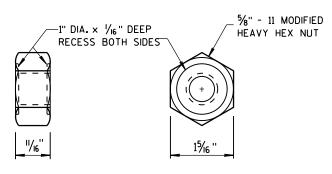


POST BOLT TABLE

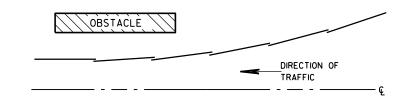
11/8"
437
13/4"
4"
41/16"
4"
41/16"
4"



ALTERNATE BOLT HEAD

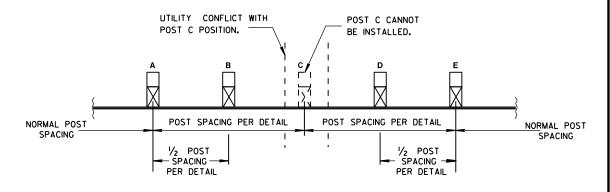


POST BOLT AND RECESS NUT



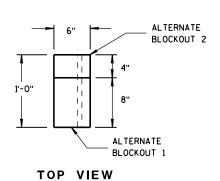
PLAN VIEW

BEAM LAPPING DETAIL



POST DRIVING FOR CONTINUOUS UNDERGROUND OBSTRUCTION





SIDE VIEW

ALTERNATE WOOD **BLOCKOUT DETAIL**

MIDWEST GUARDRAIL SYSTEM (MGS) GUARDRAIL

STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION

APPROVED

June 2014 /S/ Jerry H. Zogg ROADWAY STANDARDS DEVELOPMENT ENGINEER FHWA

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SECTION A-A SECTION B-B

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PLAN VIEW

BILL OF MATERIALS

PART NO.	DESCRIPTION MATERIALS PROVIDED BY MGS EAT MANUFACTURER. SEE MANUFACTURER'S DETAILS FOR MORE INFORMATION.
1	WOOD BREAKAWAY POST
2	6" X 8" X 0.188", 6'-0" LONG FOUNDATION TUBE AT POSTS 1AND 2
3	WOOD CRT
4	WOOD BLOCKOUT
(5)	PIPE SLEEVE
6	BEARING PLATE
7	BCT CABLE ASSEMBLY
8	ANCHOR CABLE BOX
9	GROUND STRUT
10	PERFORATED W-BEAM RAIL END PANEL, 12'-6" LONG.
(11)	STANDARD W-BEAM RAIL.MULTIPLE SECTIONS REQUIRED. SECTIONS VARY IN LENGTH.
12	END SECTION EAT
(3)	0.040" ALUMINUM SHEET WITH REFLECTIVE SHEETING TYPE F PER SECTION 637 OF THE STANDARD SPECIFICATIONS
14)	EAT MARKER POST - YELLOW (SEE APPROVED PRODUCTS LIST)



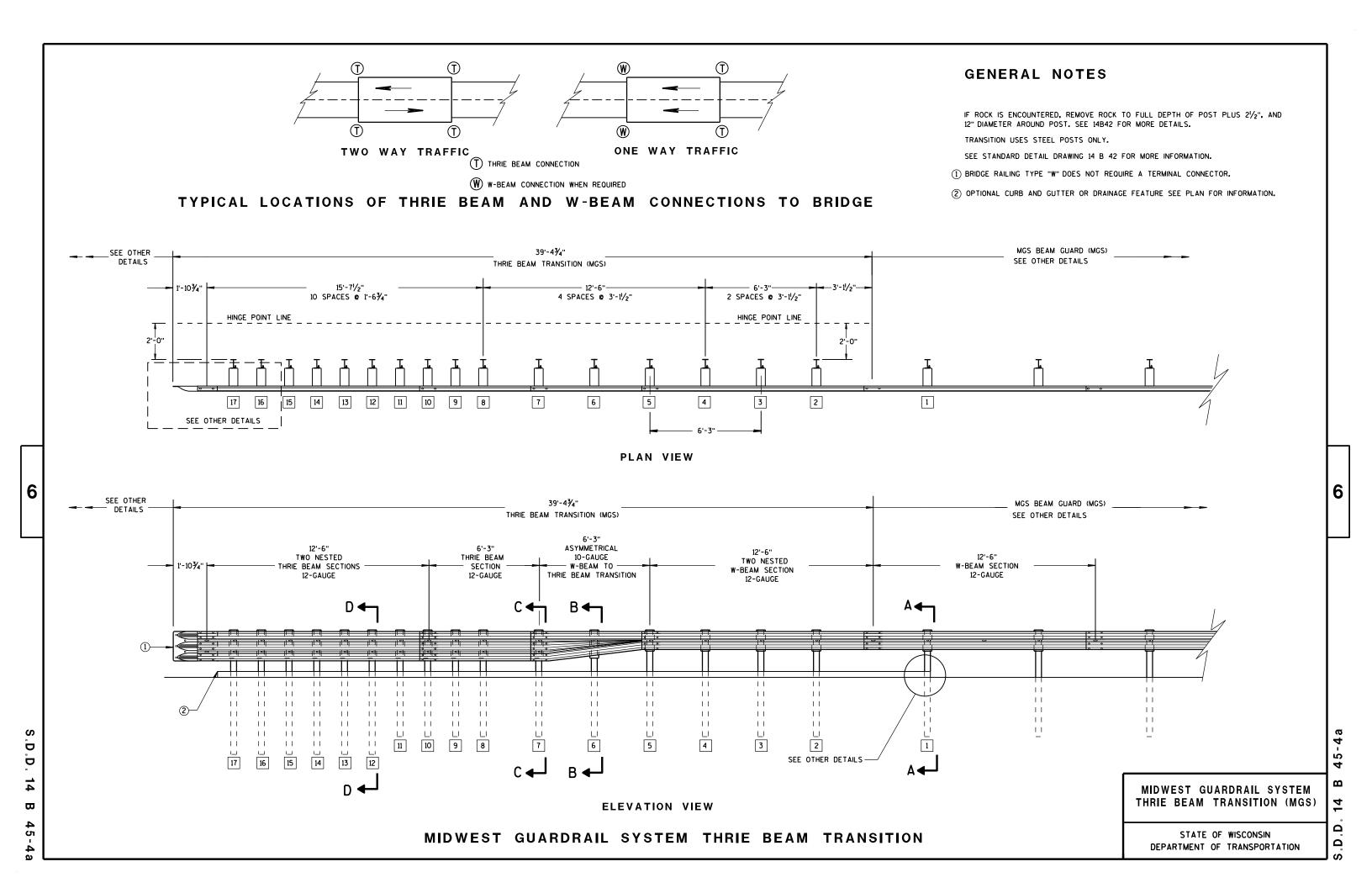
MIDWEST GUARDRAIL SYSTEM ENERGY ABSORBING TERMINAL (MGS)

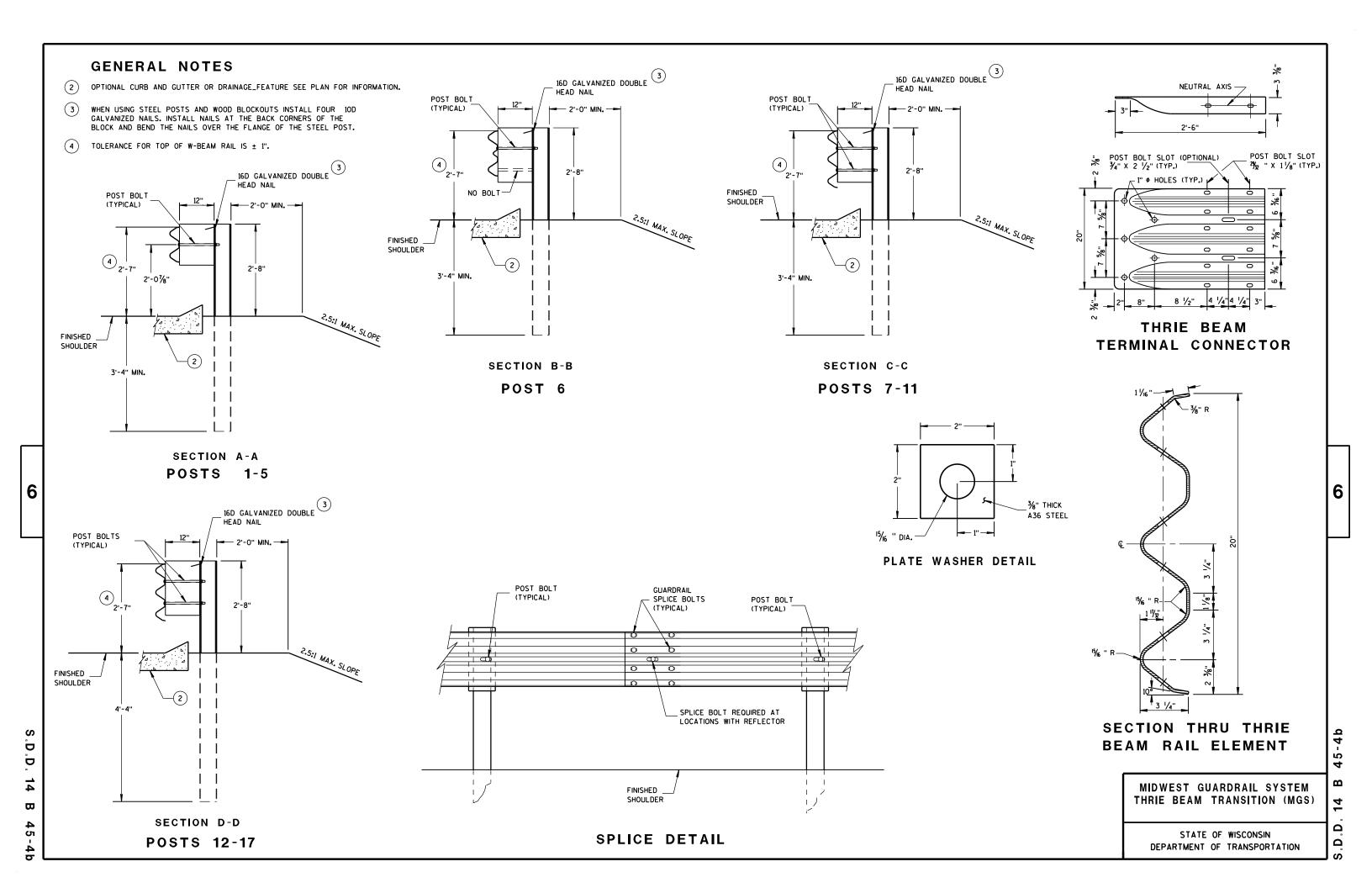
STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION

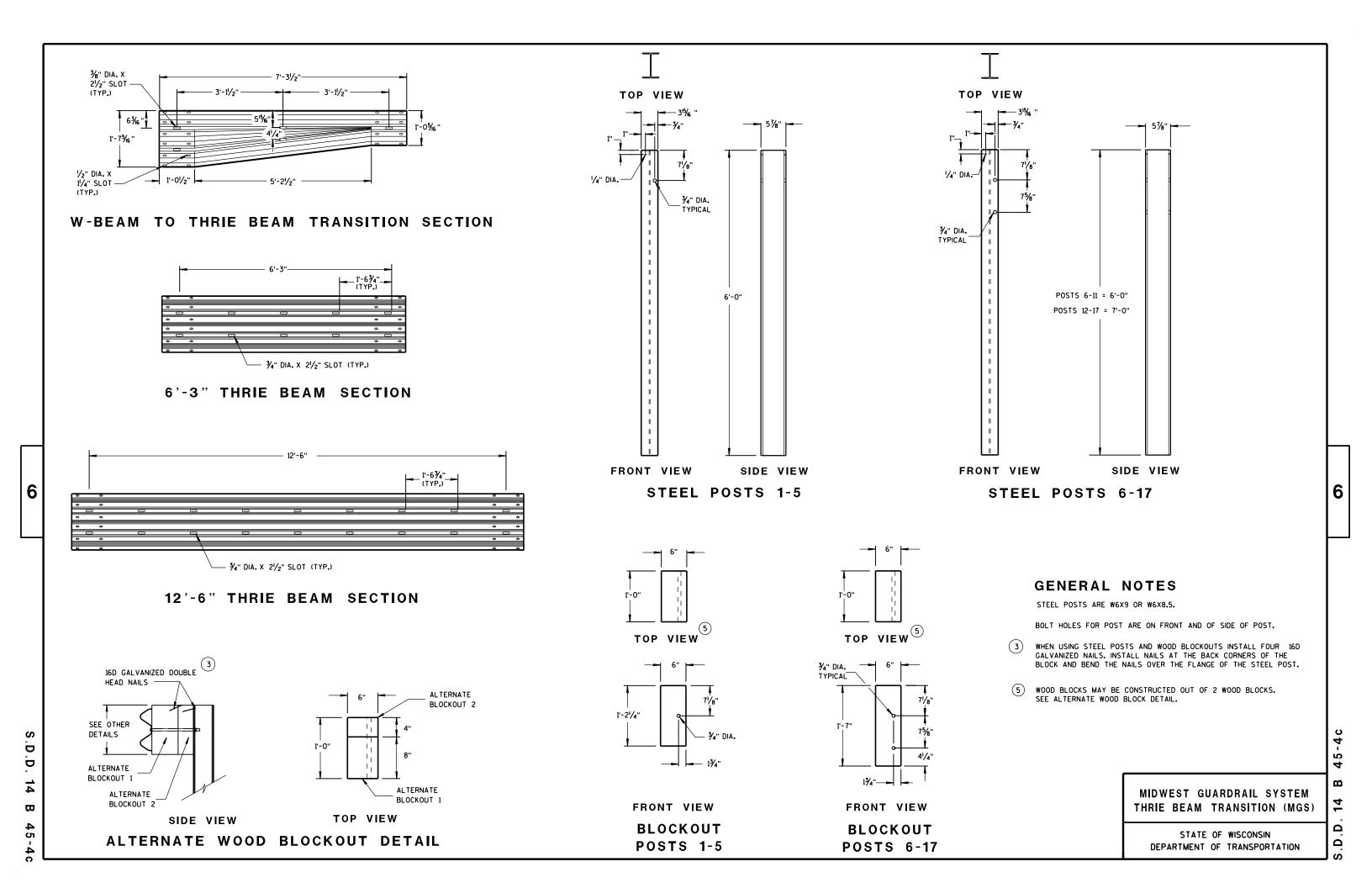
44-2b

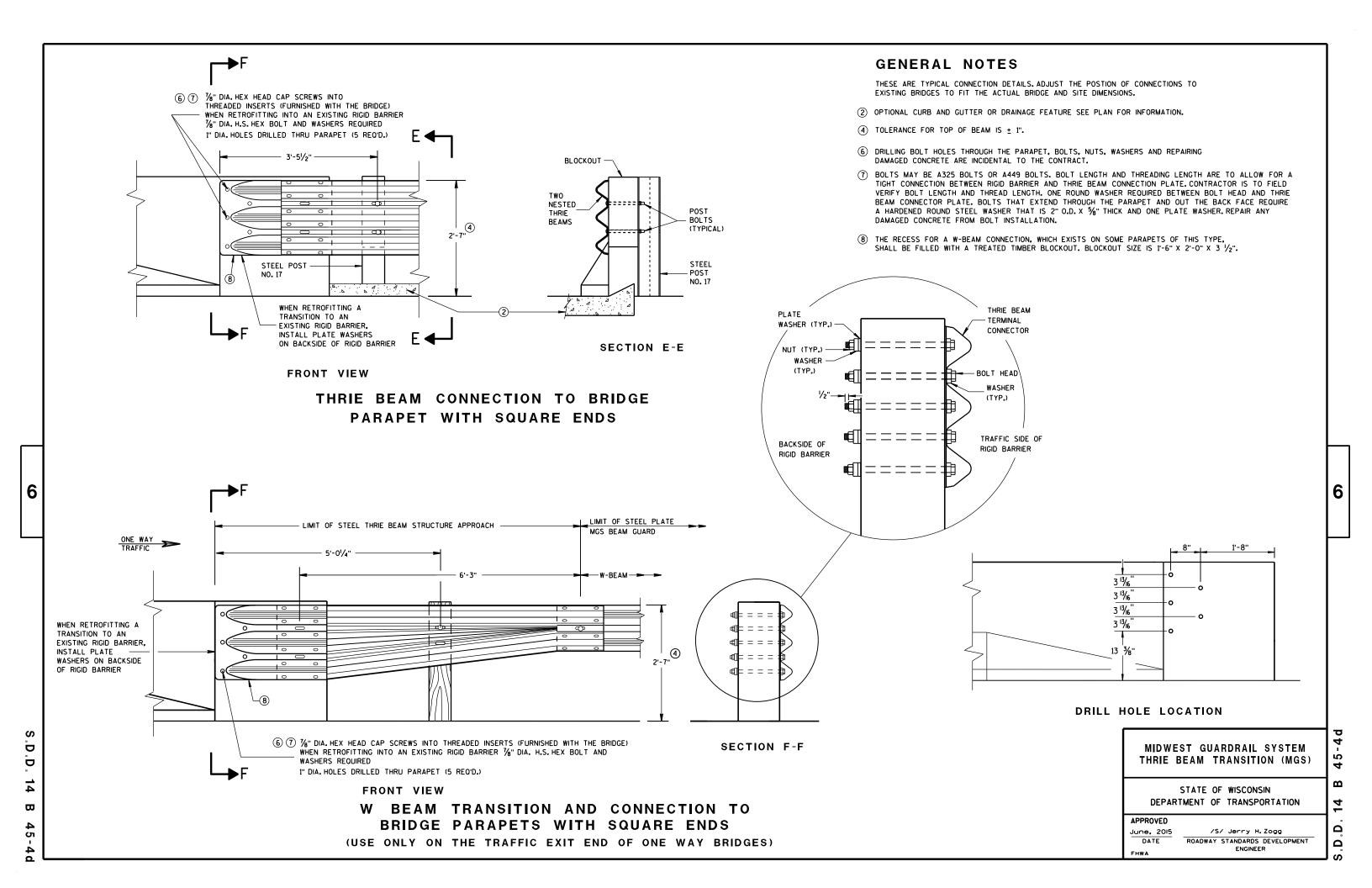
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	CONNE		R ASSEMBLY)	ON
PLATE	QUANTITY	SHAPE	SIZE (A × B × C × D)	THICKNESS
P1	1	в₫	20" × 20"	3/6"
P2	1	B∱c	20" × 20" × 28%6"	¾6 "
Р3	1	B&D	39" × 35/8" × 20" × 195/6"	3/6 "
S1	4	B A	18 % 6" × 3 % " × 18 ¾ "	1/4"
S2	1	B D	10 ¹ / ₄ " × 2 ⁷ / ₁₆ " × 10 ³ / ₈ " × ¹ / ₂ "	1/4"
S3	1	B₽₽	3" × 1½6" × 3½" × ½"	1/4"
S4	1	в₫	61/8" × 21/16"	1/4"
S5	1	в₾	6½" × ½"	1/4"
S6	1	в₾	7¾" × 1¾"	1/4"
S7	1	A DC	2%6" × 6" × 35%" × 57%"	1/4"
S8	1	4 <u>0</u> 2	1 ⁵ / ₃₂ " × 7 ¹ / ₂ " × 2 ¹ / ₂ " × 7 ³ / ₈ "	1/4"
S9	1	C □ R	6½6" × 6¾6" × 1¾2"	1/4"
S10	1	A D C	11/8" × 91/8" × 35/8" × 911/16 "	1/4"
S11	1	c ≜	8½" × 8¾" × 1¼6 "	1/4"

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SINGLE SLOPE CONNECTION PLATE

MIDWEST GUARDRAIL SYSTEM THRIE BEAM TRANSITION (MGS)

STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION

APPROVED	
2015	

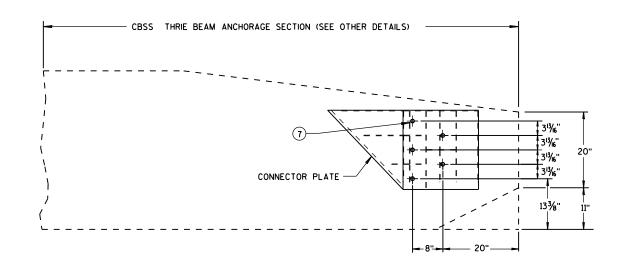
/S/ Jerry H. Zogg ROADWAY STANDARDS DEVELOPMENT ENGINEER FHWA

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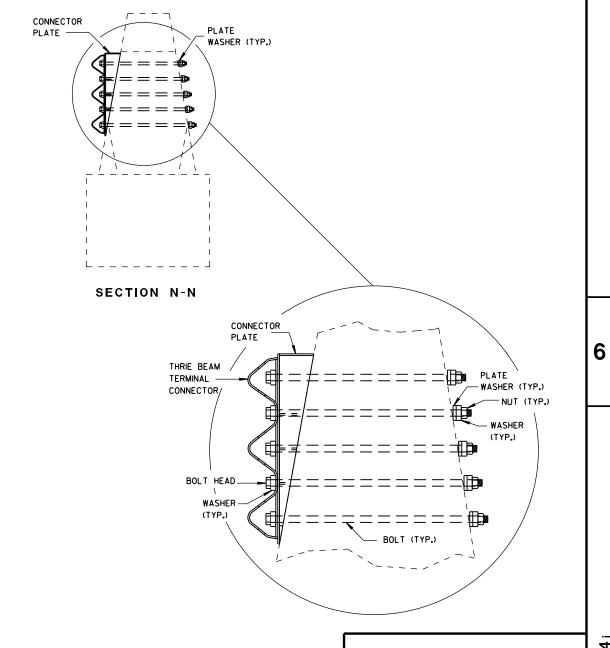


SINGLE SLOPE CONNECTION PLATE PLACEMENT

GENERAL NOTES

CONNECTOR PLATE, DRILLING BOLT HOLES THROUGH THE PARAPET, BOLTS, NUTS, WASHERS AND REPAIRING DAMAGED CONCRETE ARE INCIDENTAL TO THE CONTRACT.

- 2 OPTIONAL CURB AND GUTTER OR DRAINAGE FEATURE SEE PLAN FOR INFORMATION.
- BOLTS MAY BE A325 BOLTS OR A449 BOLTS. BOLT LENGTH AND THREADING LENGTH ARE TO ALLOW FOR A TIGHT CONNECTION BETWEEN RIGID BARRIER AND THRIE BEAM CONNECTION PLATE. CONTRACTOR IS TO FIELD VERIFY BOLT LENGTH AND THREAD LENGTH. ONE ROUND WASHER REQUIRED BETWEEN BOLT HEAD AND THRIE BEAM CONNECTOR PLATE. BOLTS THAT EXTEND THROUGH THE PARAPET AND OUT THE BACK FACE REQUIRE A HARDENED ROUND STEEL WASHER THAT IS 2" O.D. X %" THICK AND ONE PLATE WASHER. REPAIR ANY DAMAGED CONCRETE FROM BOLT INSTALLATION.



MIDWEST GUARDRAIL SYSTEM THRIE BEAM TRANSITION (MGS)

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

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APPROVED
June, 2015 /S.

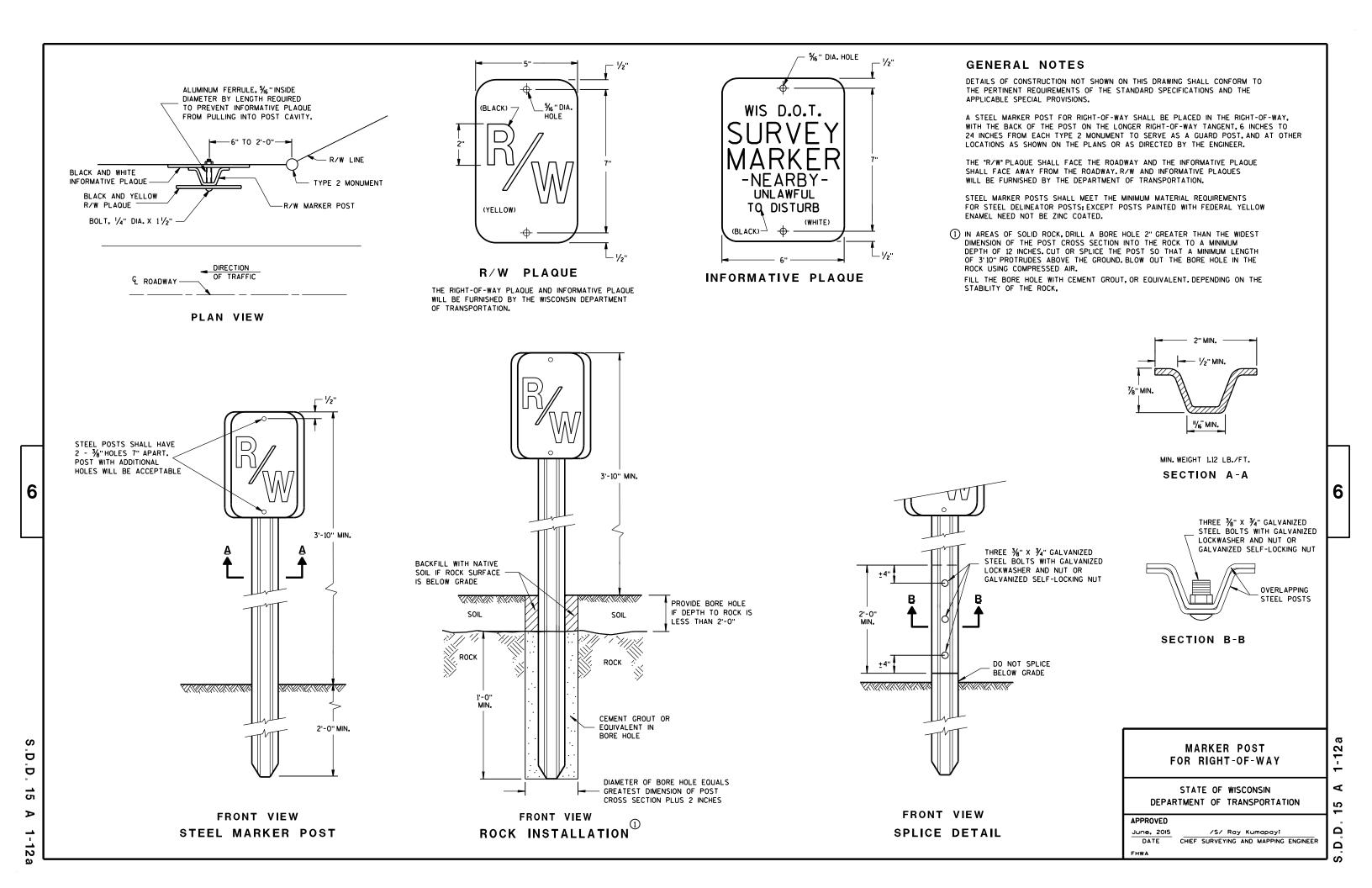
FHWA

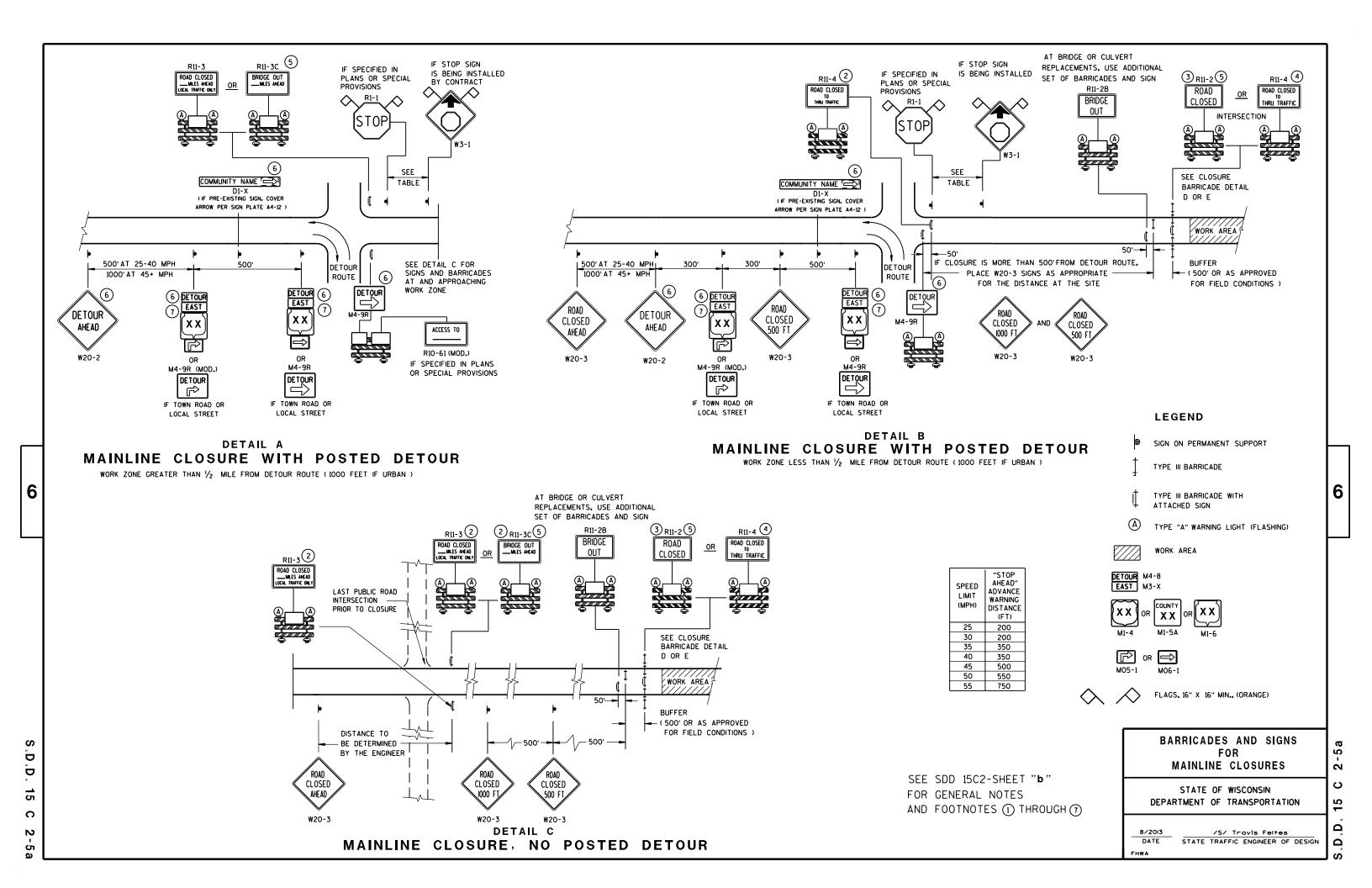
OIS /S/ Jerry H. Zogg

ROADWAY STANDARDS DEVELOPMENT
ENGINEER

S.D.D. 14 B 4

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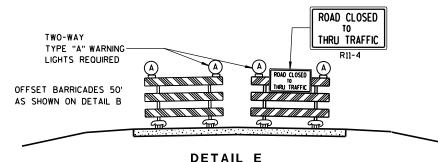




BRIDGE ROAD 1)TWO-WAY **CLOSED** TYPE "A" WARNING LIGHTS REQUIRED OUTSIDE EDGE OF SHOULDER OUTSIDE EDGE OF SHOULDER OR FACE OF CURB OR FACE OF CURB **DETAIL D**

ROAD CLOSURE BARRICADE DETAIL

APPROACH VIEW



LANE CLOSURE BARRICADE DETAIL

APPROACH VIEW

SEE SDD 15C2-SHEET "a" FOR LEGEND

GENERAL NOTES

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

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

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

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

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

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

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

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

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

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

R11-2 SHALL BE 48" X 30". R11-3, R11-4 AND R10-61 SHALL BE 60" X 30". M4-9 SHALL BE 30" X 24". M3-X SHALL BE 24" X 12". (36" X 18" IF NEEDED TO MATCH EXISTING SIGNS.) M4-8 SHALL BE 24" X 12". (30" X 15" IF NEEDED TO MATCH EXISTING SIGNS.)

M1-4, M1-5A, AND M1-6 SHALL BE 24" X 24". (36" X 36" IF NEEDED TO MATCH EXISTING SIGNS.) MO5-1 AND MO6-1 SHALL BE 21" X 21". (30" X 30" IF NEEDED TO MATCH EXISTING SIGNS.) D1-X SHALL BE AS SHOWN ON SPECIFIC PROJECT SIGNING DETAIL SHEETS. R1-1 SHALL BE 36" X 36".

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

BARRICADES AND SIGNS FOR MAINLINE CLOSURES

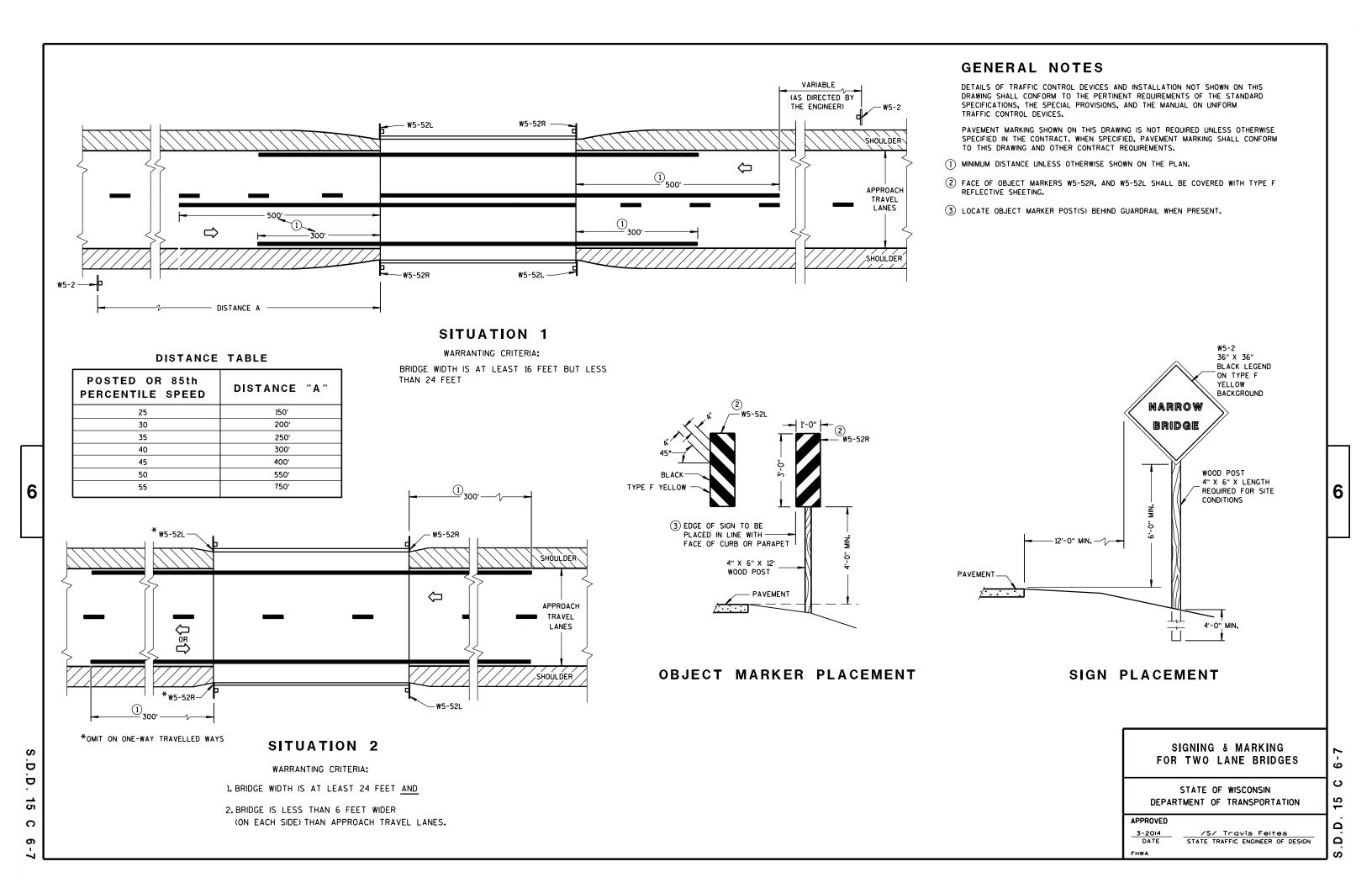
STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION

/S/ Travis Feltes STATE TRAFFIC ENGINEER OF DESIGN

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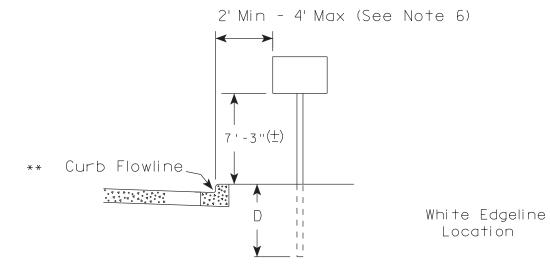
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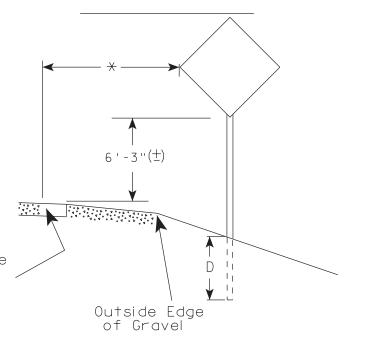




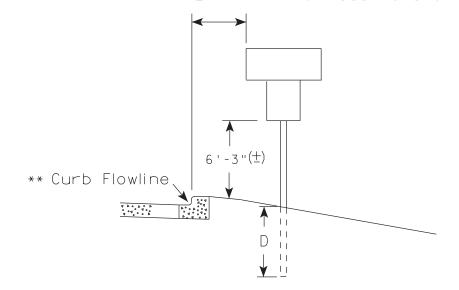
URBAN ARFA



RURAL AREA (See Note 2)



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



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

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

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

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: mscsja

GENERAL NOTES

- 1. Signs wider than 4 feet, 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 11/12/14

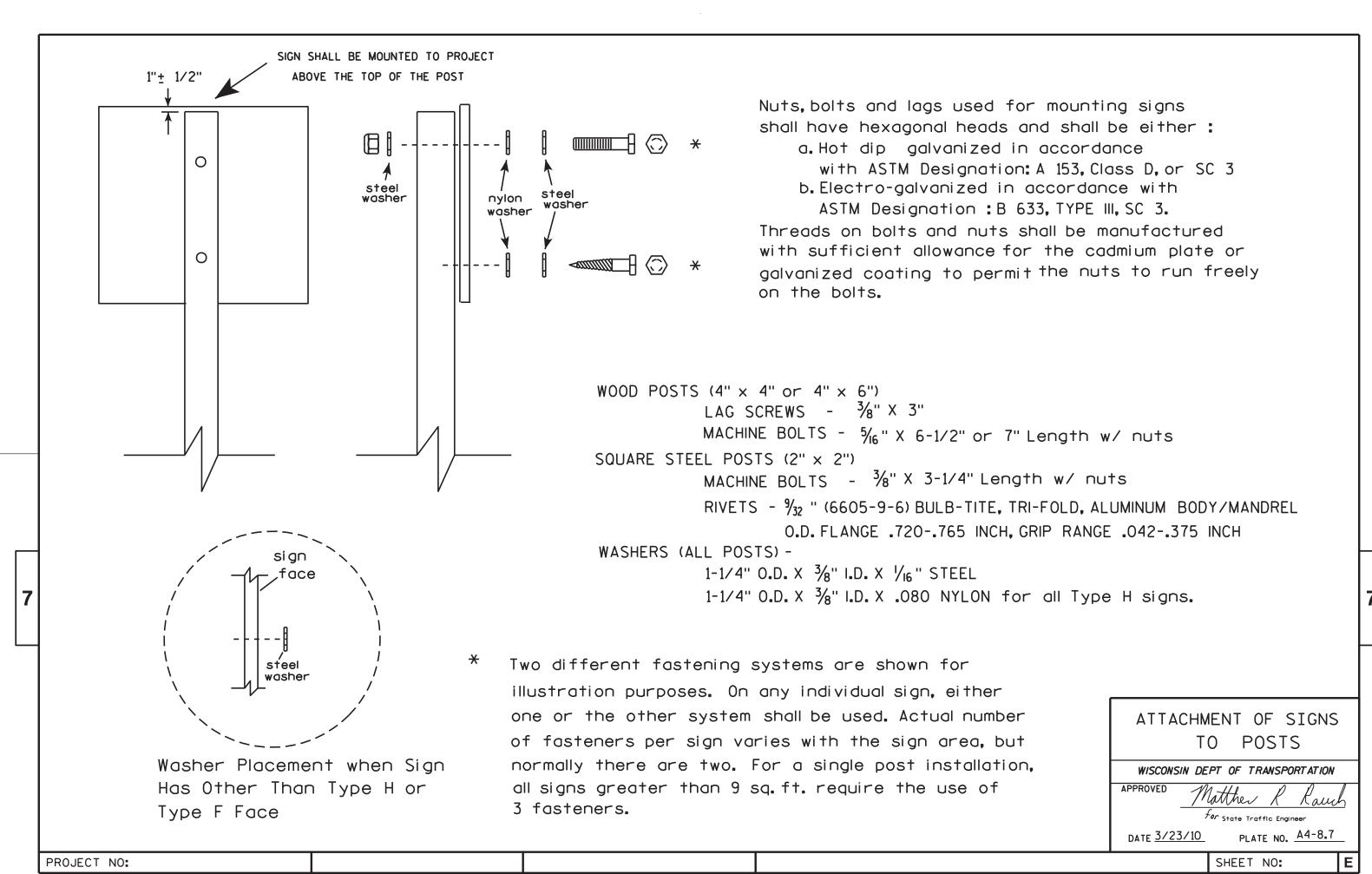
PROJECT NO: FILE NAME : C:\CAEFiles\Projects\tr_stdplate\A43.DGN COUNTY:

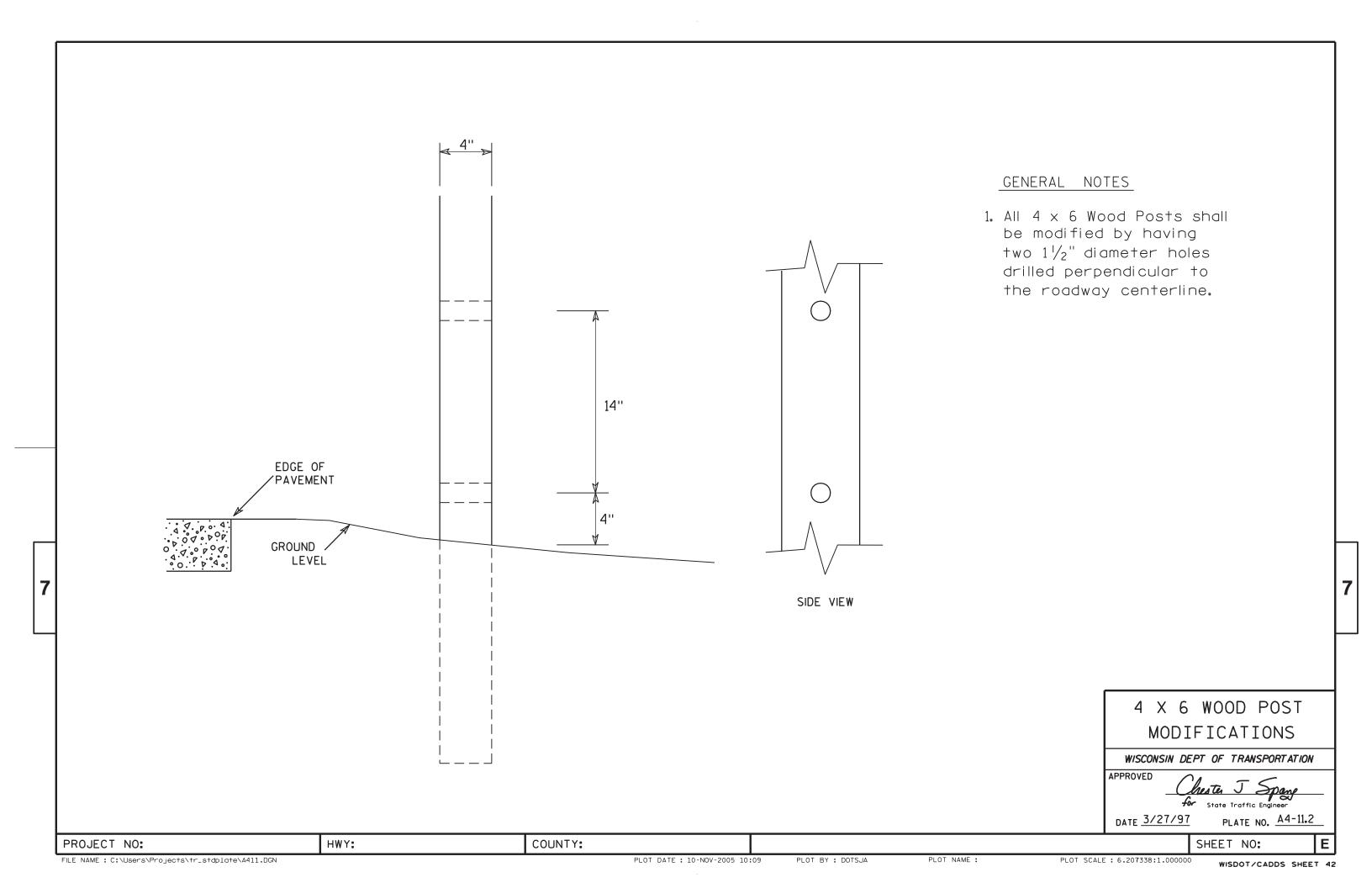
PLOT DATE: 12-NOV-2014 14:03

PLOT NAME :

WISDOT/CADDS SHEET 42

PLOT SCALE: 99.237937:1.000000





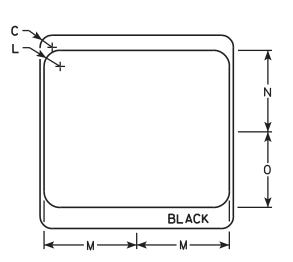
NOTES

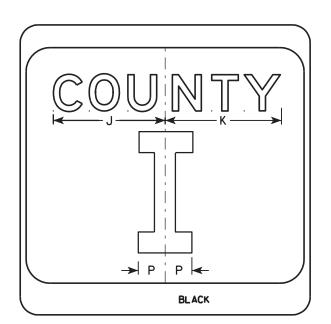
- 1. Sign is Type II see Note 7 reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
- 2. Color:

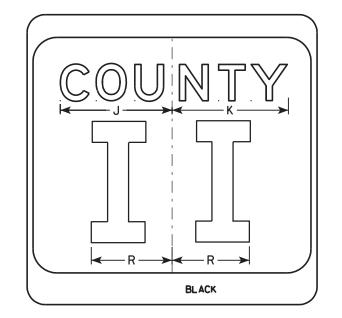
Background - White & Black - See Note 7 Message - Black

- 3. Message Series see Note 5
- 4. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.
- 5. Message Series E for 1 letter. Message Series D for 2 letters unless message is too big then Series C. Message Series C for 3 letters unless message is too big then Series B.
- 6. Substitute appropriate letters & optically center to achieve proper balance.
- 7. Permanent Signs

Background - Type H Reflective Detour or temporary Signs Background - Reflective







SIZE	Α	В	С	D	E	F	G	Н	I	J	К	L	М	N	0	Р	0	R	S	T	U	٧	W	Х	Y	Z	Area sq. ft.
1																											
2	24		1 1/2			10	3	5 1/8	4 1/8	9 1/4	9 5%	2	11 1/2	10 1/8	9 3/8	2 1/4		6 %									4.0
3	36		2 1/4			16	4	7 5/8	5 %	12 1/4	12 1/8	3	17 1/8	15 1/4	14	3 %		10									9.0
4	36		2 1/4			16	4	7 %	5 %	12 1/4	12 1/8	3	17 1/8	15 1/4	14	3 %		10									9.0
5	36		2 1/4			16	4	7 5/8	5	12 1/4	12 1/8	3	17 1/8	15 1/4	14	3 3/8		10									9.0
		•			•																•	•					

COUNTY:

CTH MARKER M1-5A FOR ASSEMBLIES

WISCONSIN DEPT OF TRANSPORTATION

APPROVED

FerState Traffic Engineer DATE 9/27/11 PLATE NO. M1-5A.8

SHEET NO:

FILE NAME : C:\Users\PROJECTS\tr_stdplate\M15A.DGN

PROJECT NO:

BLACK

HWY:

M1-5A

PLOT DATE: 29-SEP-2011 11:25

PLOT NAME :

PLOT BY: mscsja

PLOT SCALE: 5.959043:1.000000

WISDOT/CADDS SHEET 42



- 1. Sign is Type II Type H
- 2. Color:

Background - See note 5 Message - See note 5

- 3. Message Series C
- 4. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.
- 5. M2-1 Background White

Message – Black

MB2-1 Background - Blue

Message - White

MK2-1 Background - Green

Message - White

MM2-1 Background - White

Message - Green

MN2-1 Background - Brown

Message - White

MR2-1 Background - Brown

Message - Yellow

	↑ G→	Y
 	F	→ Z
Y	★ G ★	H
		MB2-1

7

SIZE	А	В	С	D	Е	F	G	н і	J	К	L	М	N	0	Р	Q	R	S	Т	U	V	W	X	Y	Z	Area sq. ft.
1																										
2	21	15	1 1/8	3/8	3/8	9	3	8 1/8 8 5	/8															1 1/2	1/2	2.20
3	30	21	1 1/8	3/8	3/8	13	4	12 7/8 12	3/8															1 1/2	1/2	4.40
4	30	21	1 1/8	3/8	3/8	13	4	12 7/8 12	3/8															1 1/2	1/2	4.40
5	30	21	1 1/8	3/8	3/8	13	4	12 7/8 12	3/8															1 1/2	1/2	4.40

COUNTY:

В

STANDARD SIGN

M2 - 1

WISCONSIN DEPT OF TRANSPORTATION

APPROVED

Matther R Rauch
For State Traffic Engineer

SHEET NO:

DATE <u>6/30/14</u>

PLATE NO. <u>M2-1.11</u>

FILE NAME : C:\CAEFiles\Projects\tr_stdplate\M21.DGN

PROJECT NO:

M2-1

MK2-1 MM2-1 MN2-1 MR2-1

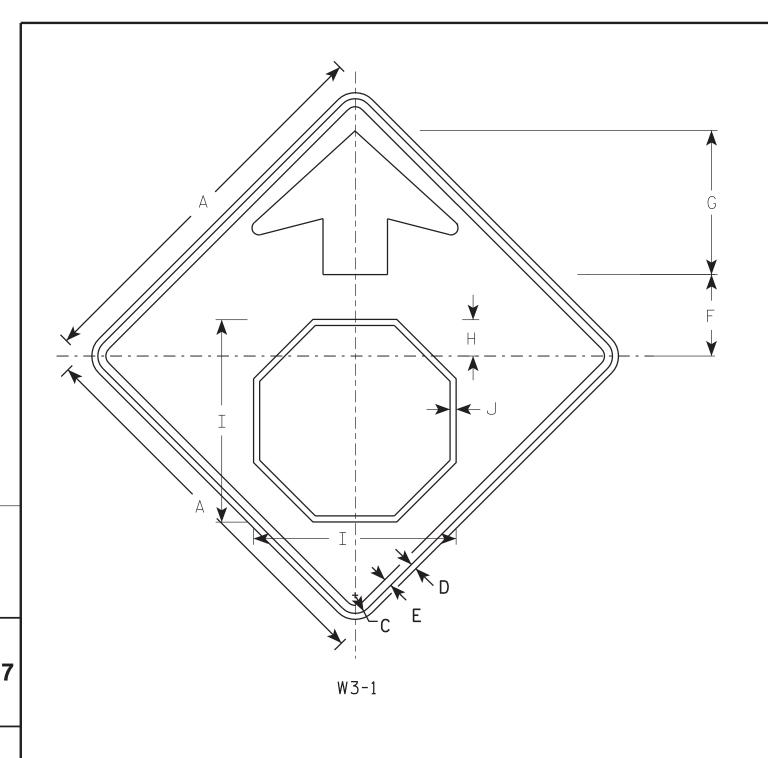
HWY:

PLOT DATE : 30-JUN-2014 12:43

PLOT BY: mscsja

PLOT NAME: PLOT SCALE: 4.8

PLOT SCALE : 4.864603:1.000000 WISDOT/CADDS SHEET 42



10 | 17 \(\frac{7}{8} \) 4 \(\frac{7}{2} \) 25 \(\frac{7}{8} \) \(\frac{3}{4} \) \(\frac{7}{8} \) 25 \(\frac{5}{8} \) 13

<u>NOTES</u>

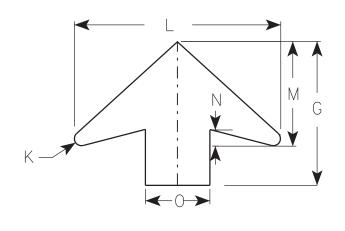
- 1. All Signs Type II Type F Reflective reference WIS DOT Standard Specification for HIGHWAY and STRUCTURE CONSTRUCTION latest edition.
- 2. Color:

Background - YELLOW

Arrow & Border - BLACK

Stop Symbol - WHITE BORDER ON RED BACKGROUND

16.0



ARROW DETAIL

ı																												
	SIZE	Α	В	С	D	E	F	G	Н	I	J	K	L	М	N	0	Р	0	R	S	Т	U	٧	W	Х	Υ	Z	Areg sq. ft.
	1	30		1 3/8	1/2	5/8	6 1/4	11 1/4	2 1/8	15 3/4	1/2	1/2	16	8	1 1/4	5												6.25
ı	2S	36		1 1/8	5/8	3/4	7 1/2	13 1/2	3 1/2	19	5/8	5/8	19 1/4	9 3/4	1 1/8	6												9.0
ı	2M	36		1 1 1/8	5/8	3/4	7 1/2	13 1/2	3 1/2	19	5/8	5/8	19 1/4	9 3/4	1 5/8	6												9.0
	3	36		1 1/8	5/8	3/4	7 1/2	13 1/2	3 1/2	19	5/8	5/8	19 1/4	9 3/4	1 5/8	6												9.0
	4	48		2 1/4	3/4	1	10	17 1/8	4 1/2	25 1/8	3/4	7 ⁄8	25 %	13	2	8												16.0

STANDARD SIGN W3-1

WISCONSIN DEPT OF TRANSPORTATION

APPROVED

Matthe R Rauch

For State Traffic Engineer

DATE 6/7/10 PLATE NO. W3-1.12

SHEET NO:

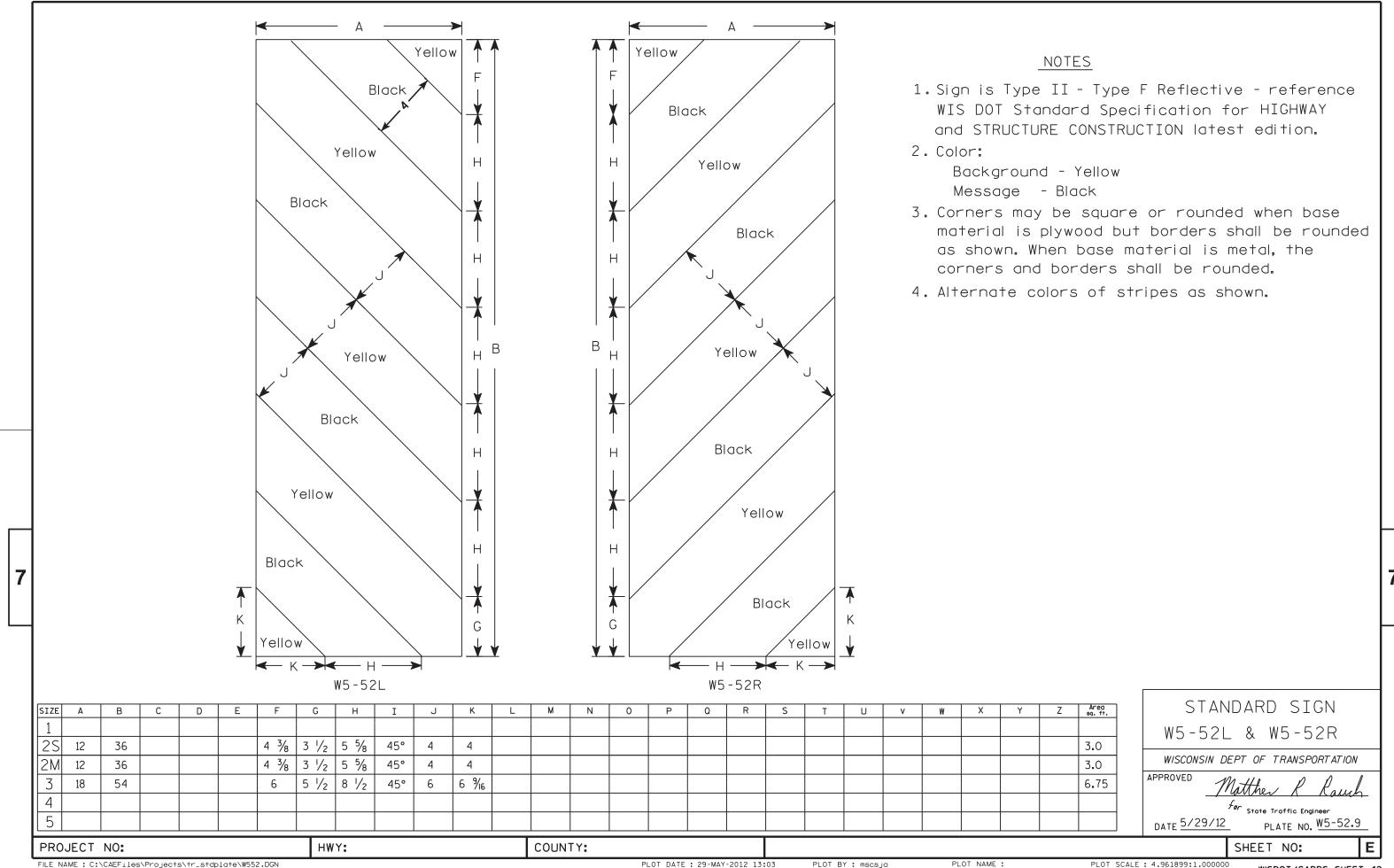
PROJECT NO:

FILE NAME : C:\Users\PROJECTS\tr_stdplate\W31.DGN

48

PLOT DATE : 07-JUN-2010 12:59

PLOT BY: ditjph



NOTES

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

Background - YELLOW Message - BLACK

- 3. Message Series D
- 4. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.

D E
A F F F F F F F F F F F F F F F F F F F
W7-6

SIZE A С D E 2S 30 1/2 5/8 8 3/8 | 12 1/8 | 13 | 7 1/8 | 7 3/4 | 2 1/2 1 1/8 3 3/4 6 6.25 2M 36 3/4 1 5/8 5/8 4 1/2 7 3/4 10 3/4 16 16 1/8 9 1/8 9 1/8 3 9.0 3 1 1/8 5/8 3/4 4 1/2 7 3/4 10 3/4 16 16 1/8 9 1/8 9 1/8 3 9.0 36 4 4 1/2 7 3/4 10 3/4 16 1 1/8 5/8 16 1/8 9 7/8 9 7/8 3 36 3/4 9.0 5 48 2 1/4 5 1/4 10 10 1/8 18 1/8 18 1/8 10 1/8 11 3 1/2 16.0

STANDARD SIGN W7-6

WISCONSIN DEPT OF TRANSPORTATION

APPROVED

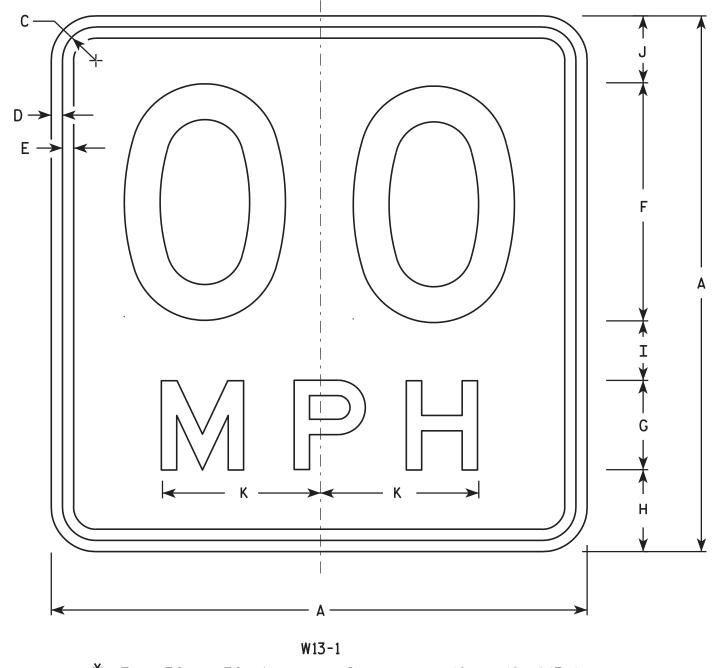
For State Traffic Engineer

DATE <u>03/12/13</u>

PLATE NO. W7-6.3

SHEET NO:

PROJECT NO:



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

NOTES

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

Background - Yellow Message - Black

PLOT NAME :

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

	SIZE	Α	В	С	D	Е	F	G	н	I	J	К	L	М	N	0	Р	0	R	S	T	U	v	₩	X	Y	Z	Areg sq. ft.
	1	18		1 1/8	3/8	3/8	8	3	2 3/4	2	2 1/4	5 3/8																2.25
*	25	18		1 1/8	3/8	3/8	8	3	2 3/4	2	2 1/4	5 3/8																2.25
 *[2M	18		1 1/8	3/8	3/8	8	3	2 3/4	2	2 1/4	5 %																2.25
	3	24		1 1/8	3/8	1/2	10	4	4	2 3/4	3 1/4	6 %																4.00
	4	36		1 5/8	5/8	3/4	16	6	5 1/2	4	4 1/2	10 %																9.00
	5	36		1 %	5/8	3/4	16	6	5 1/2	4	4 1/2	10 %																9.00
_														_														

COUNTY:

STANDARD SIGN W13-1

WISCONSIN DEPT OF TRANSPORTATION

APPROVED -

Matther R Raw For State Traffic Engineer

DATE <u>5/31/12</u>

PLATE NO. W13-1.16

SHEET NO:

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

HWY:

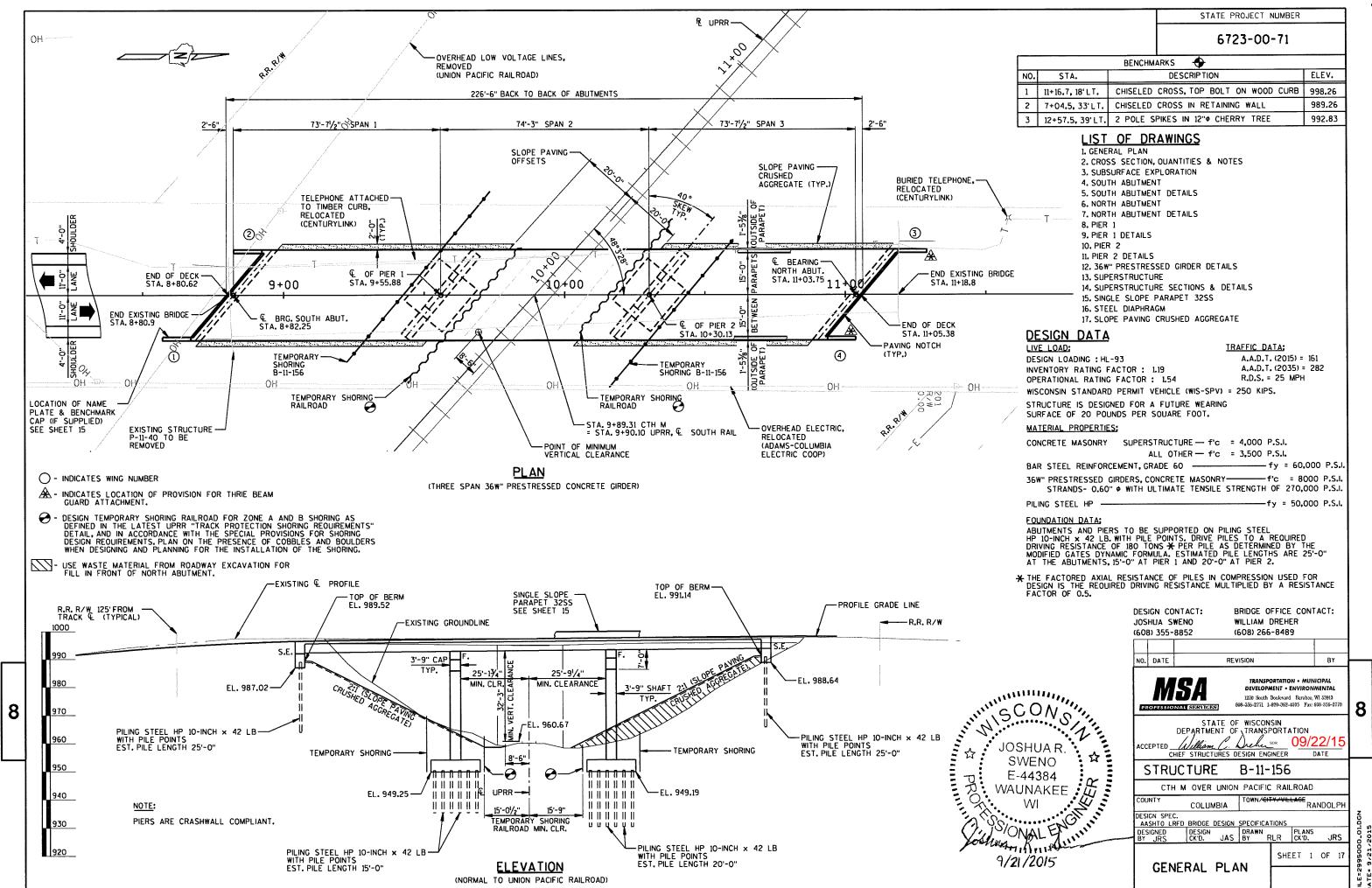
PROJECT NO:

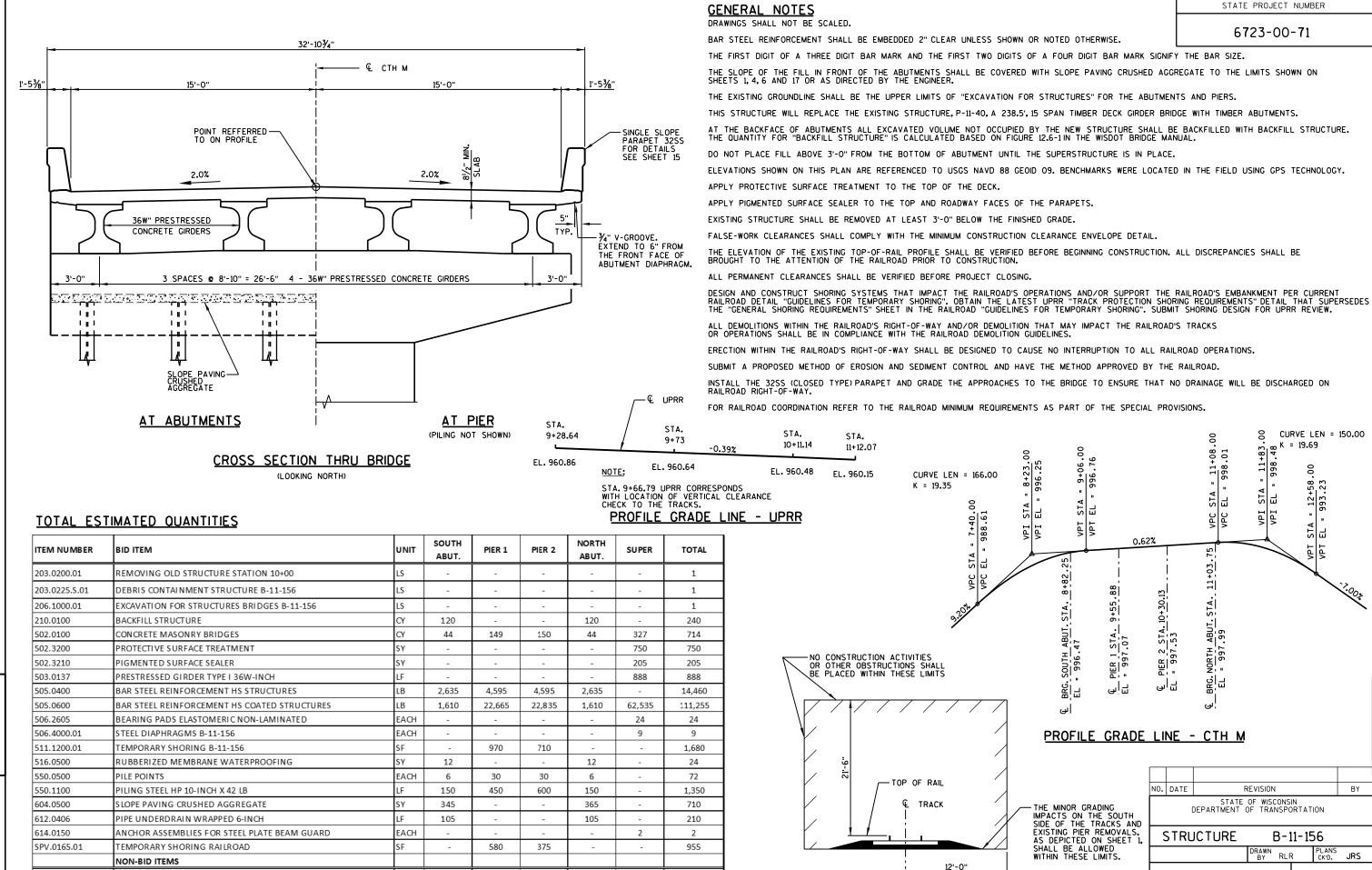
PLOT DATE: 31-MAY-2012 10:57

PLOT BY: mscsja

PLOT SCALE: 3.225232:1.000000

WISDOT/CADDS SHEET 42





3/41

1/2" & 3/4"

MINIMUM CONSTRUCTION CLEARANCE ENVELOPE

(NORMAL TO RAILROAD)

995000_02.dgn 9/21/2015 8:57:03 AM JSWENO

CORK FILLER

PREFORMED FILLER

SIZE

SIZE

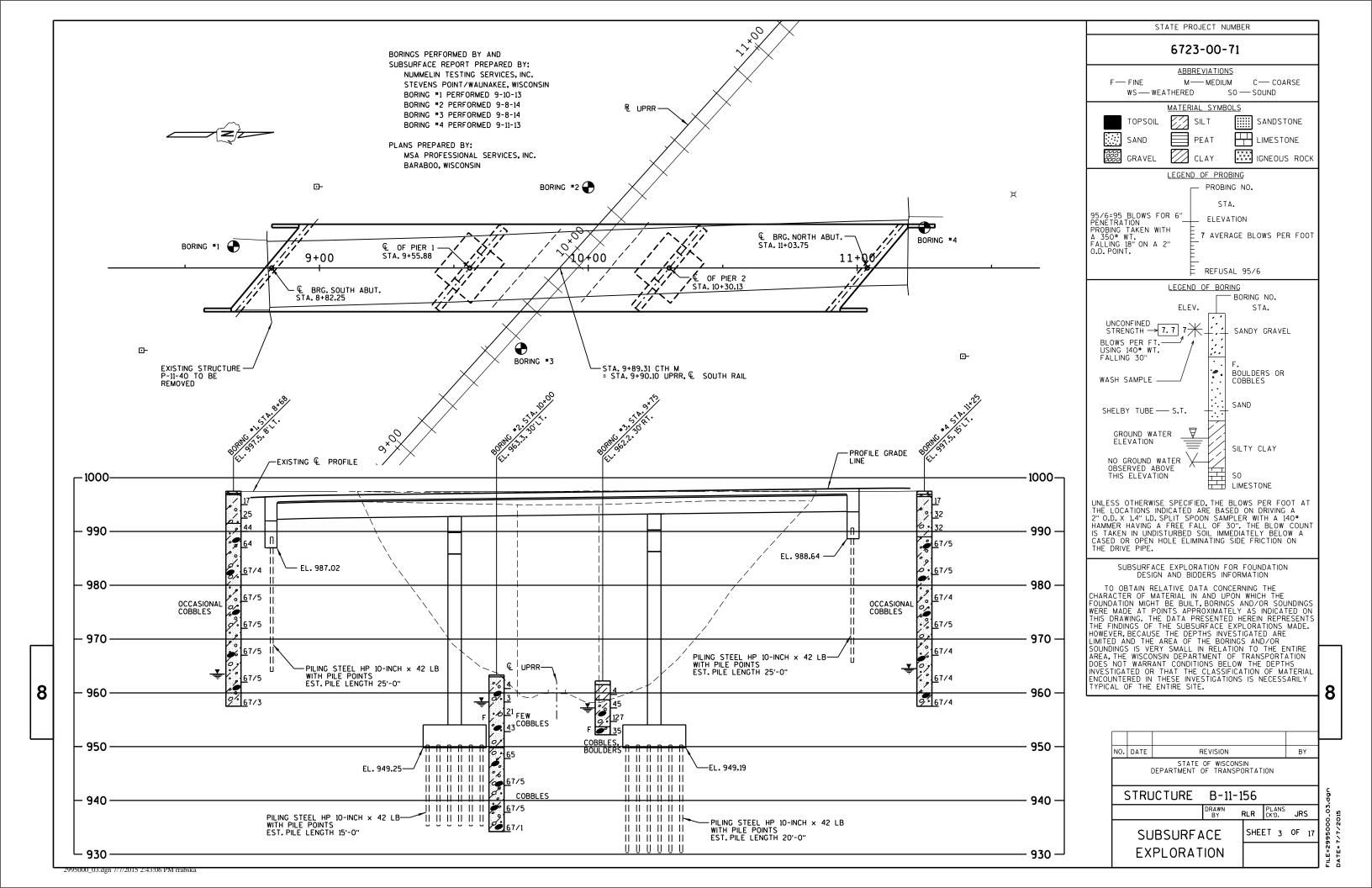
35000_02.DGN

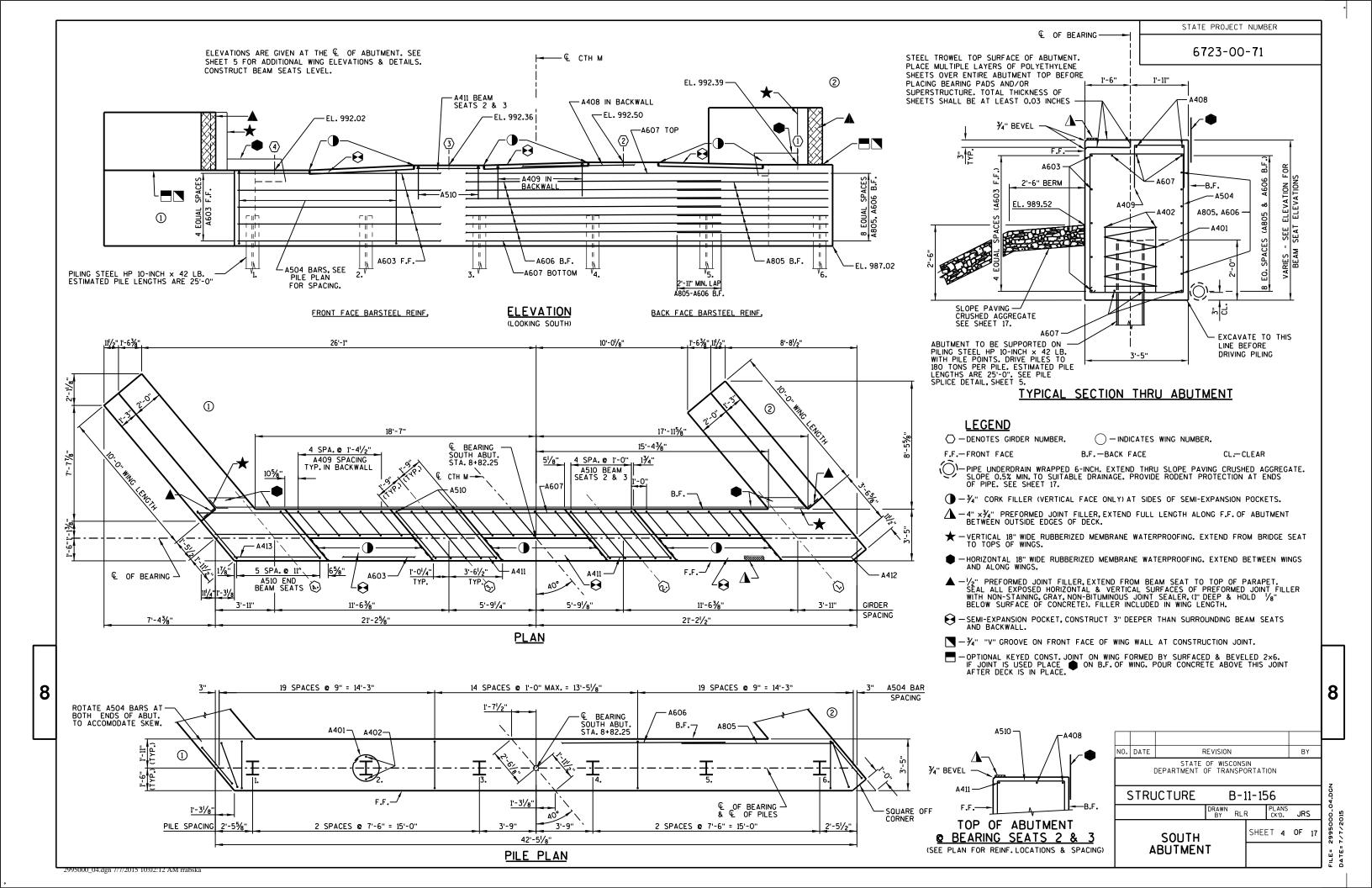
SHEET 2 OF

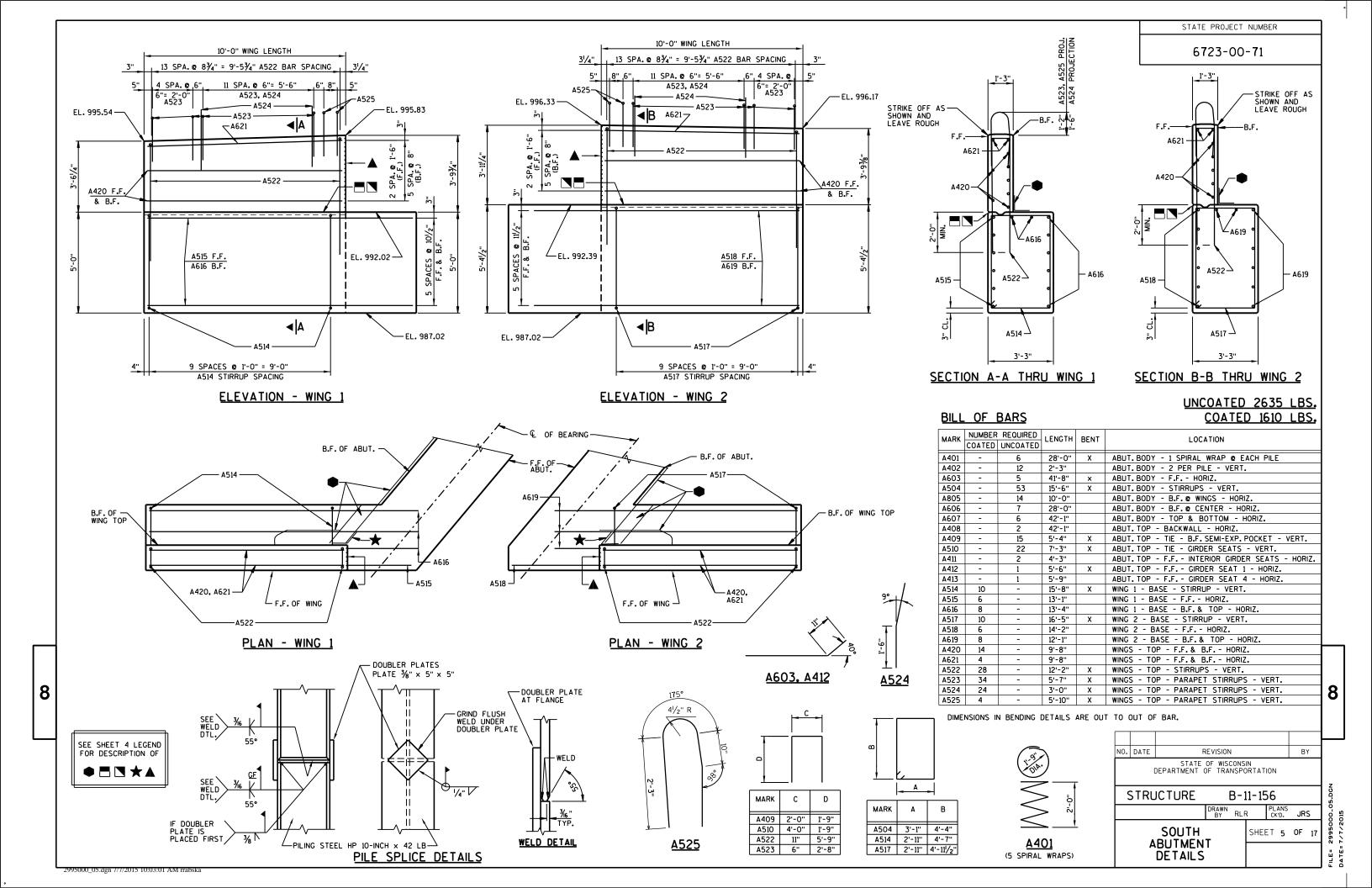
CROSS SECTION,

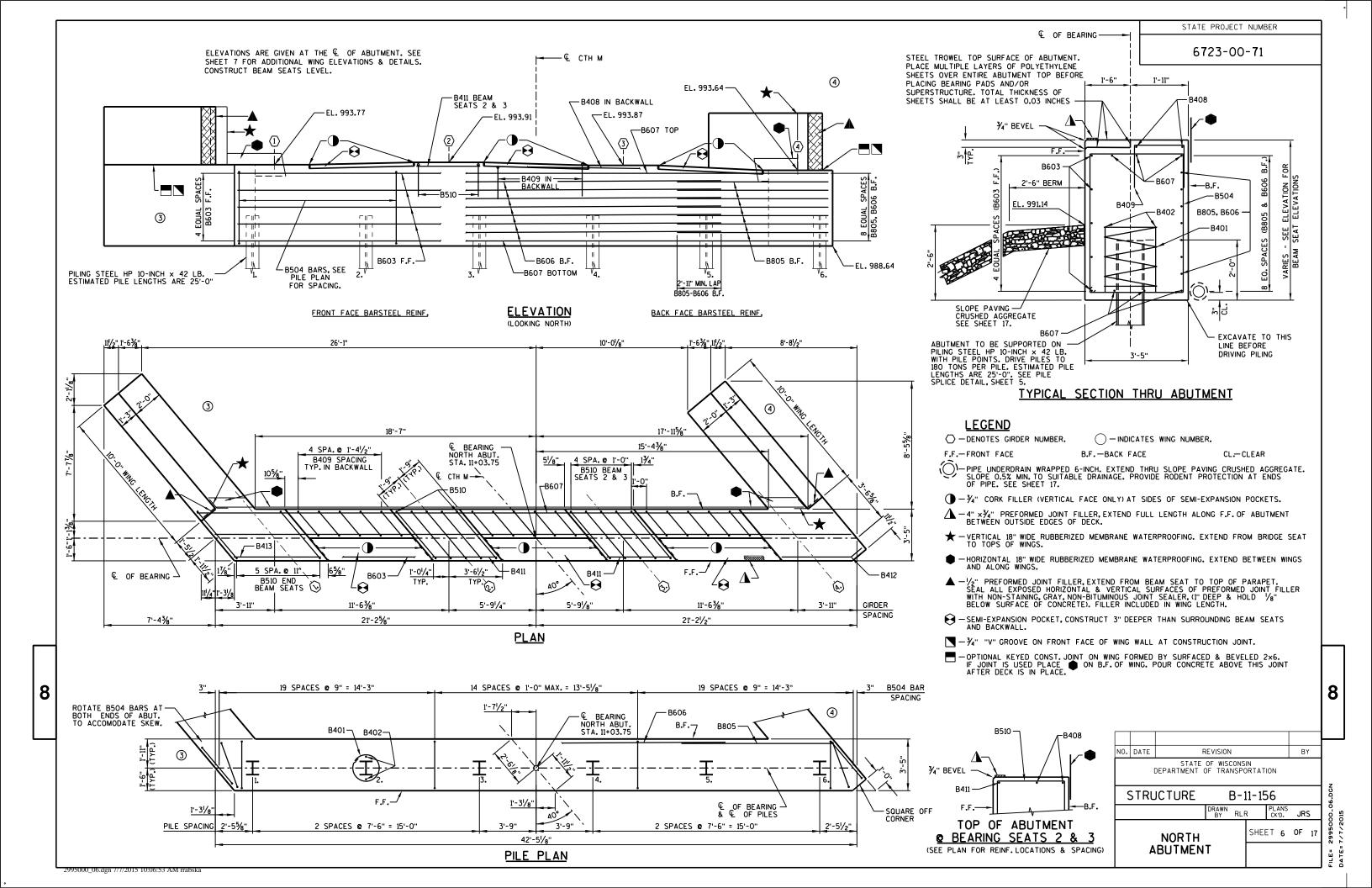
QUANTITIES

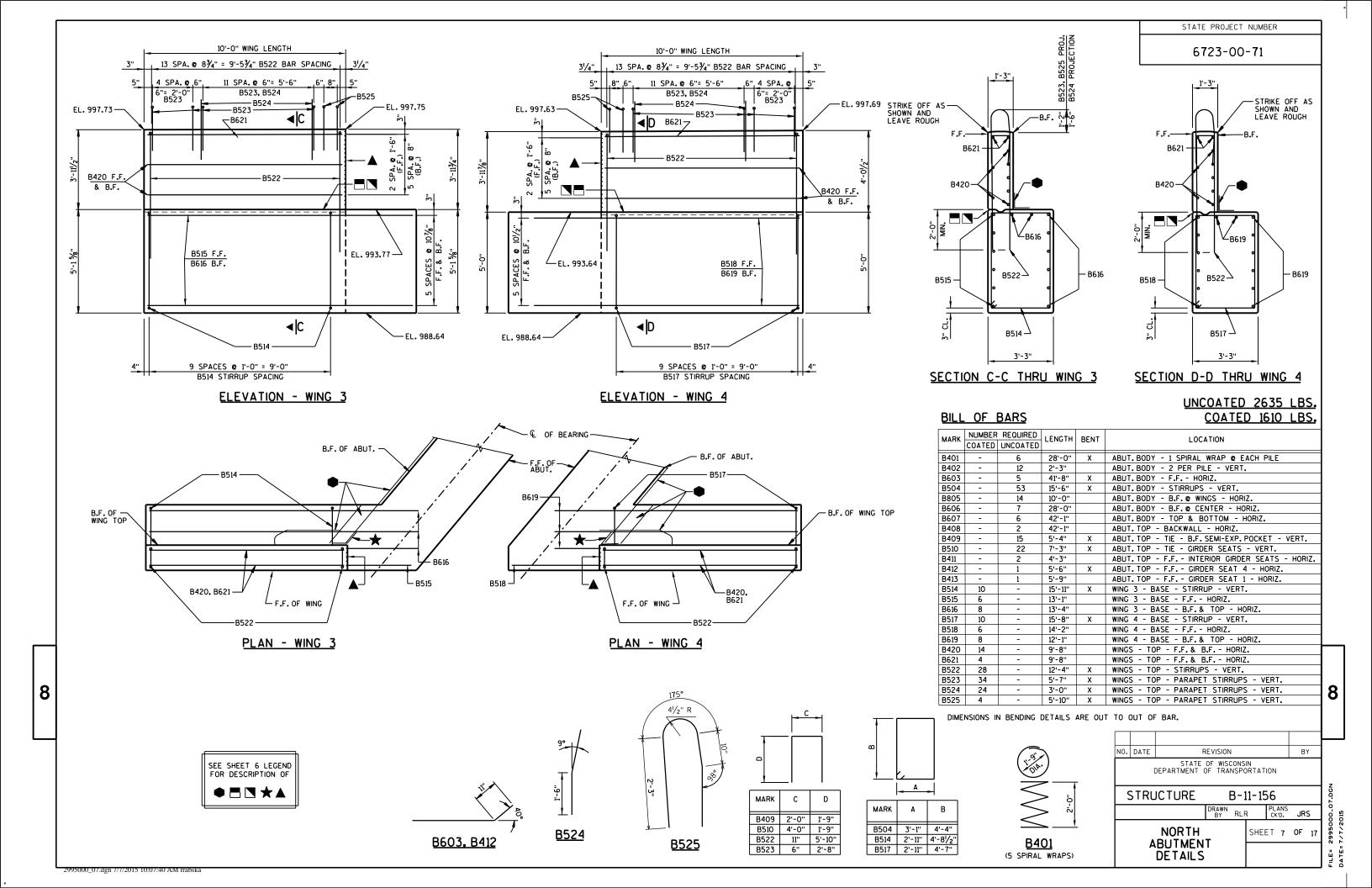
& NOTES

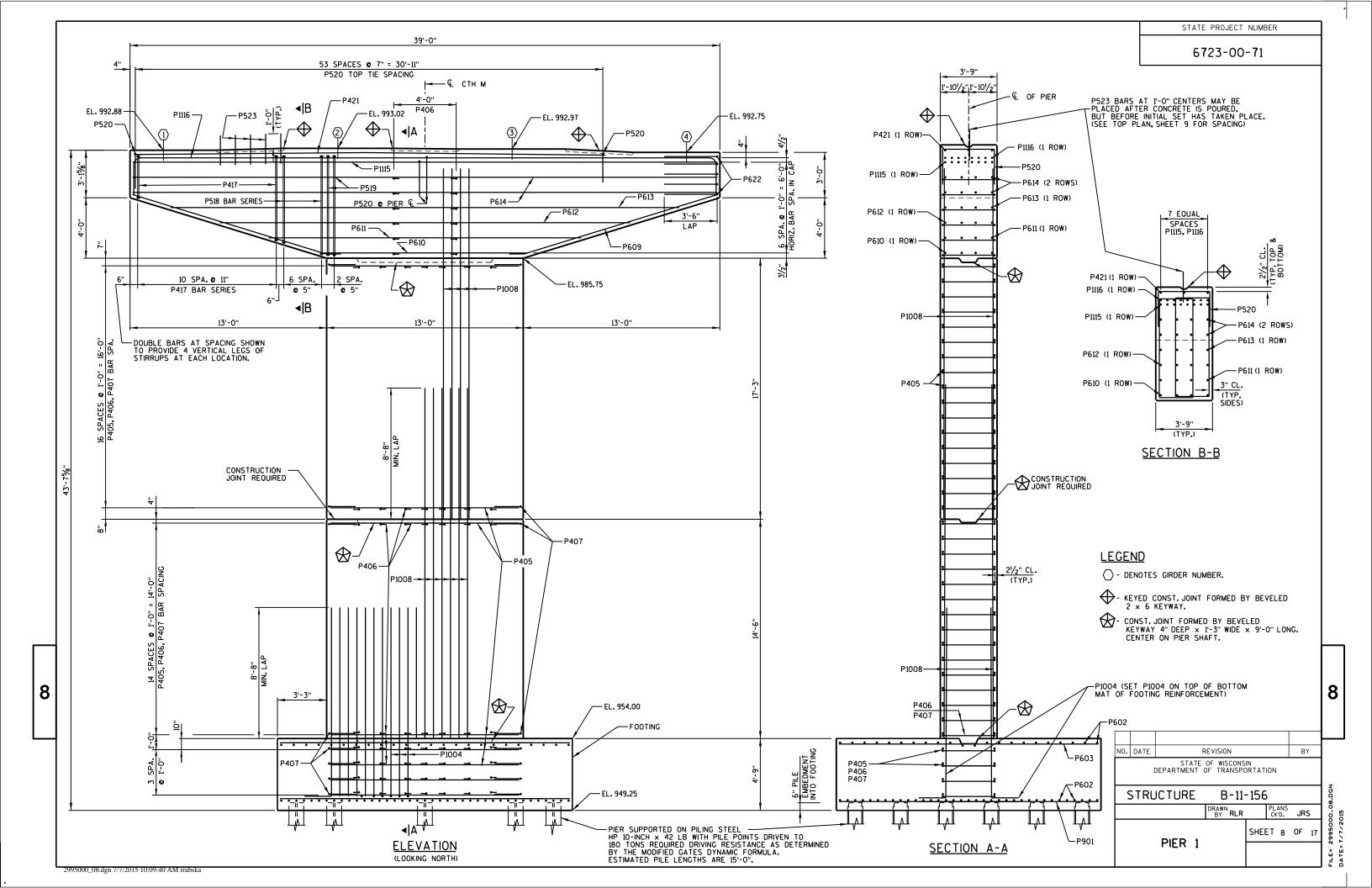


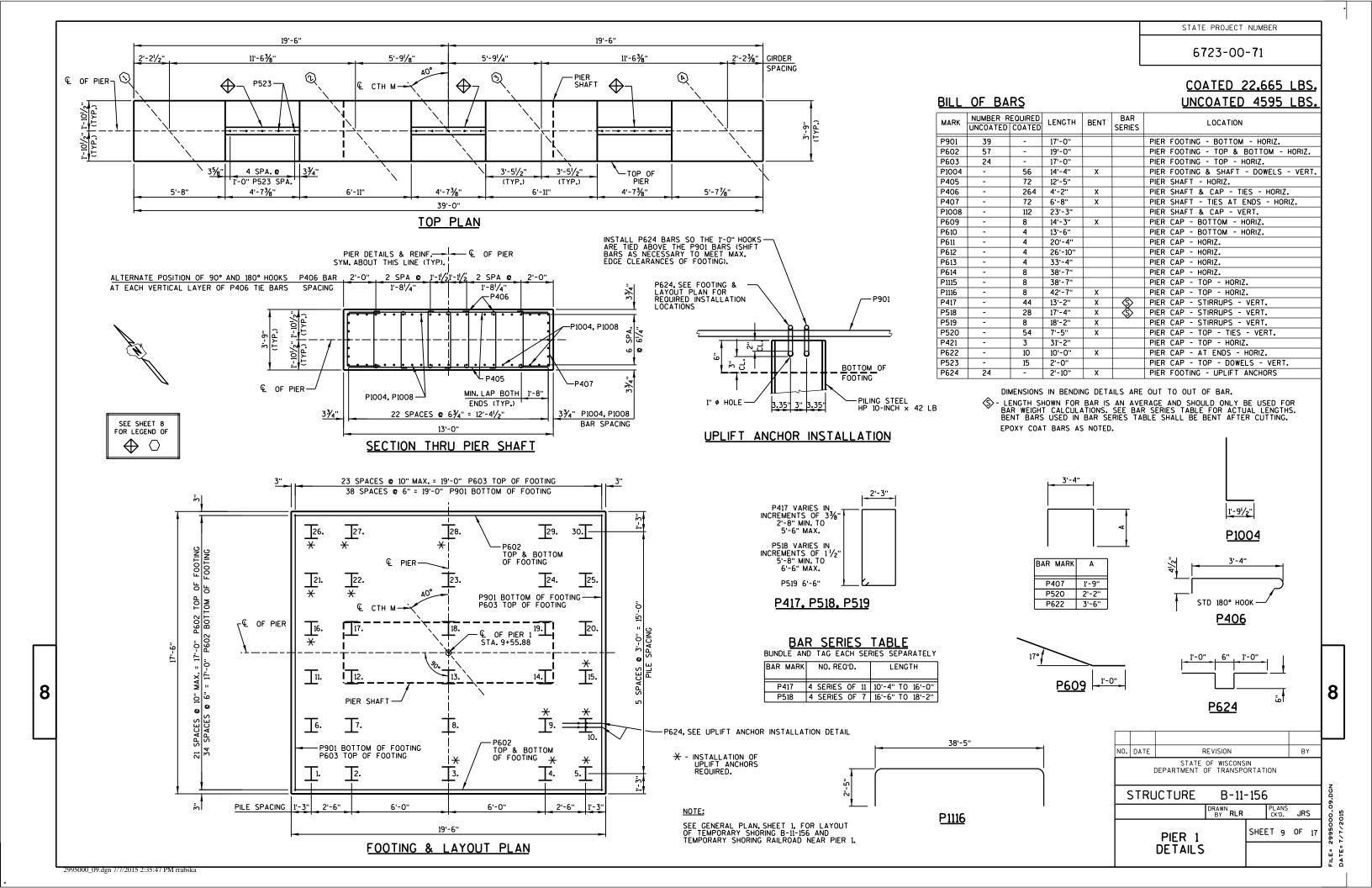


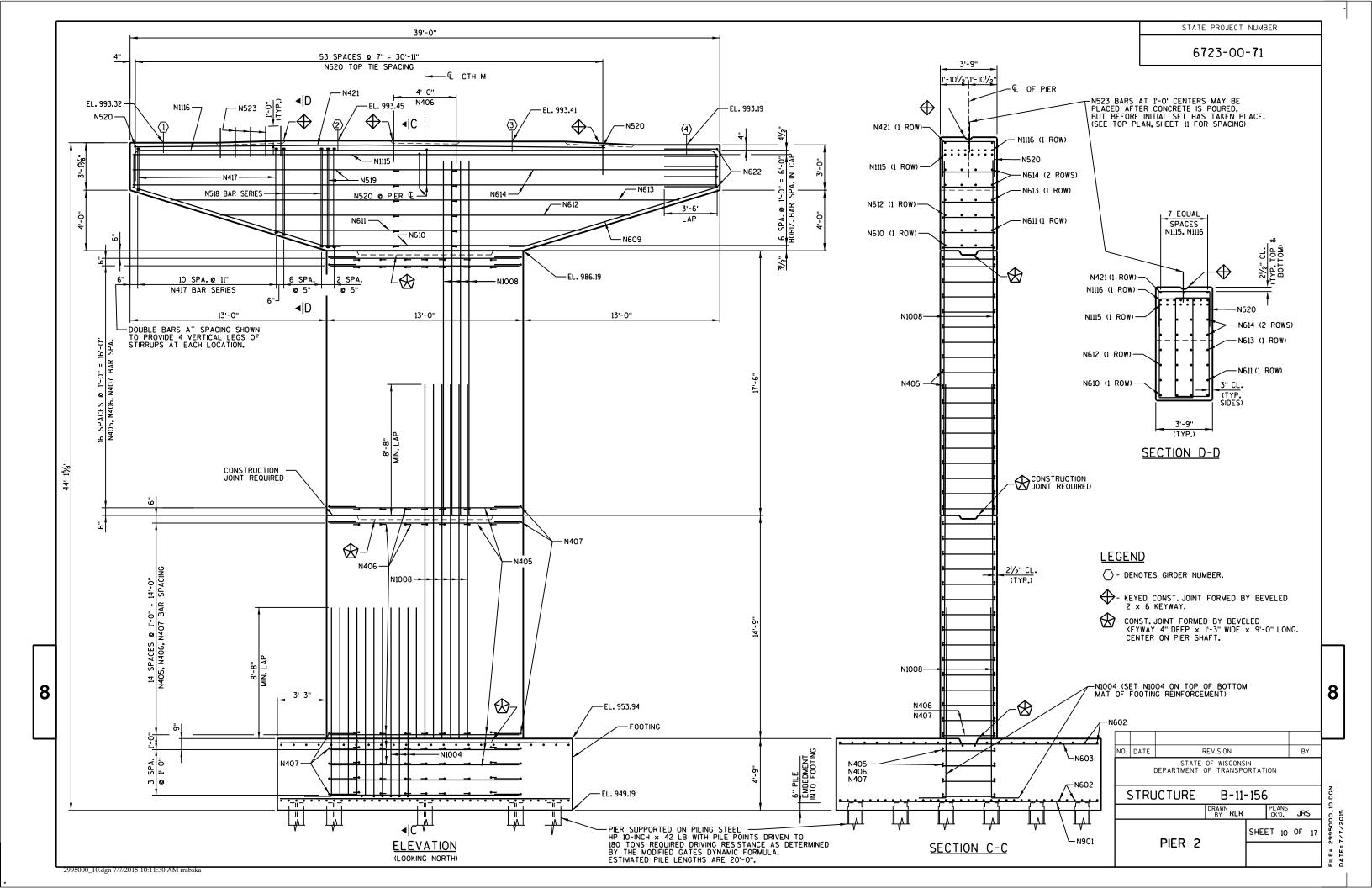


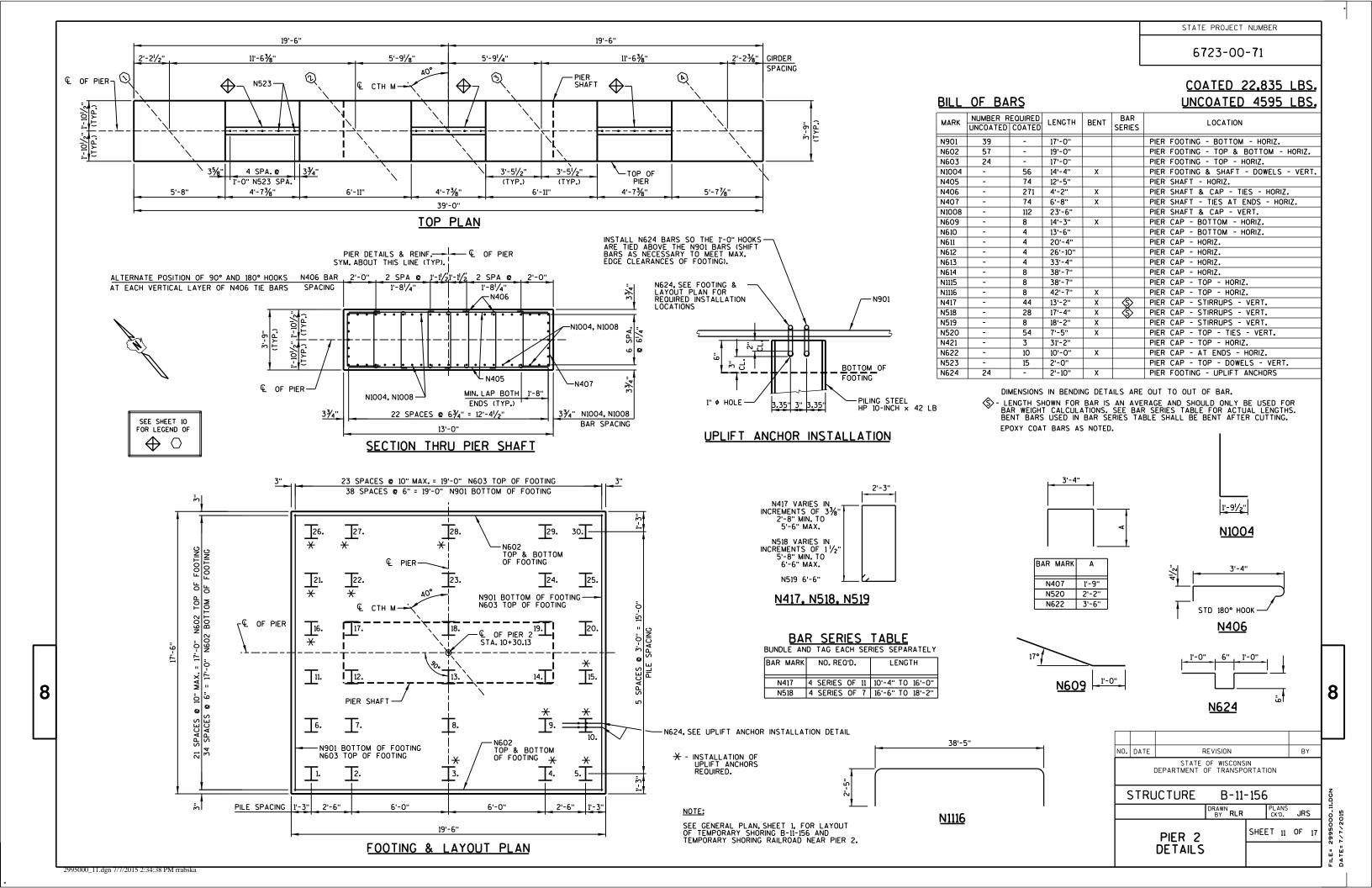


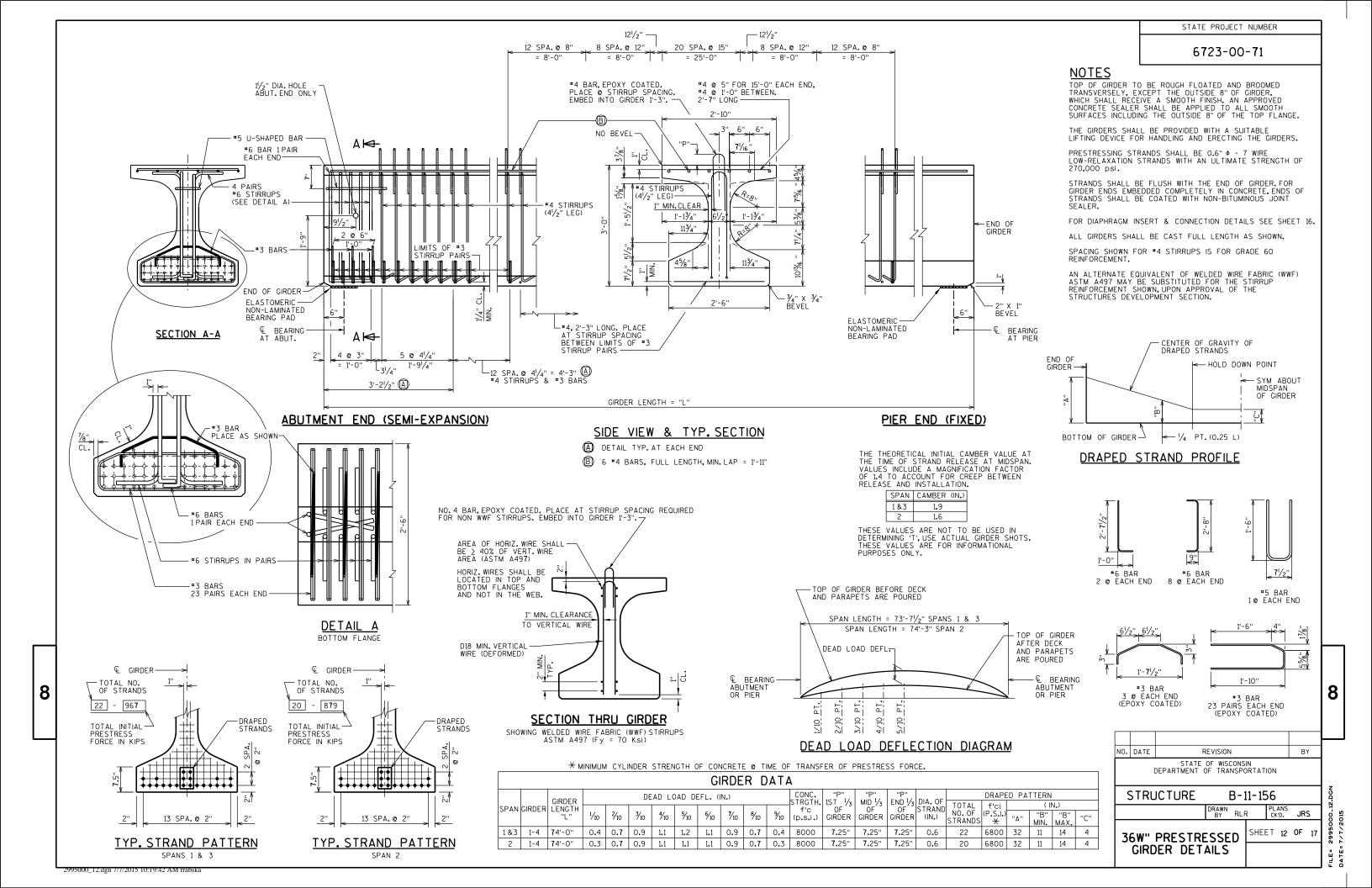


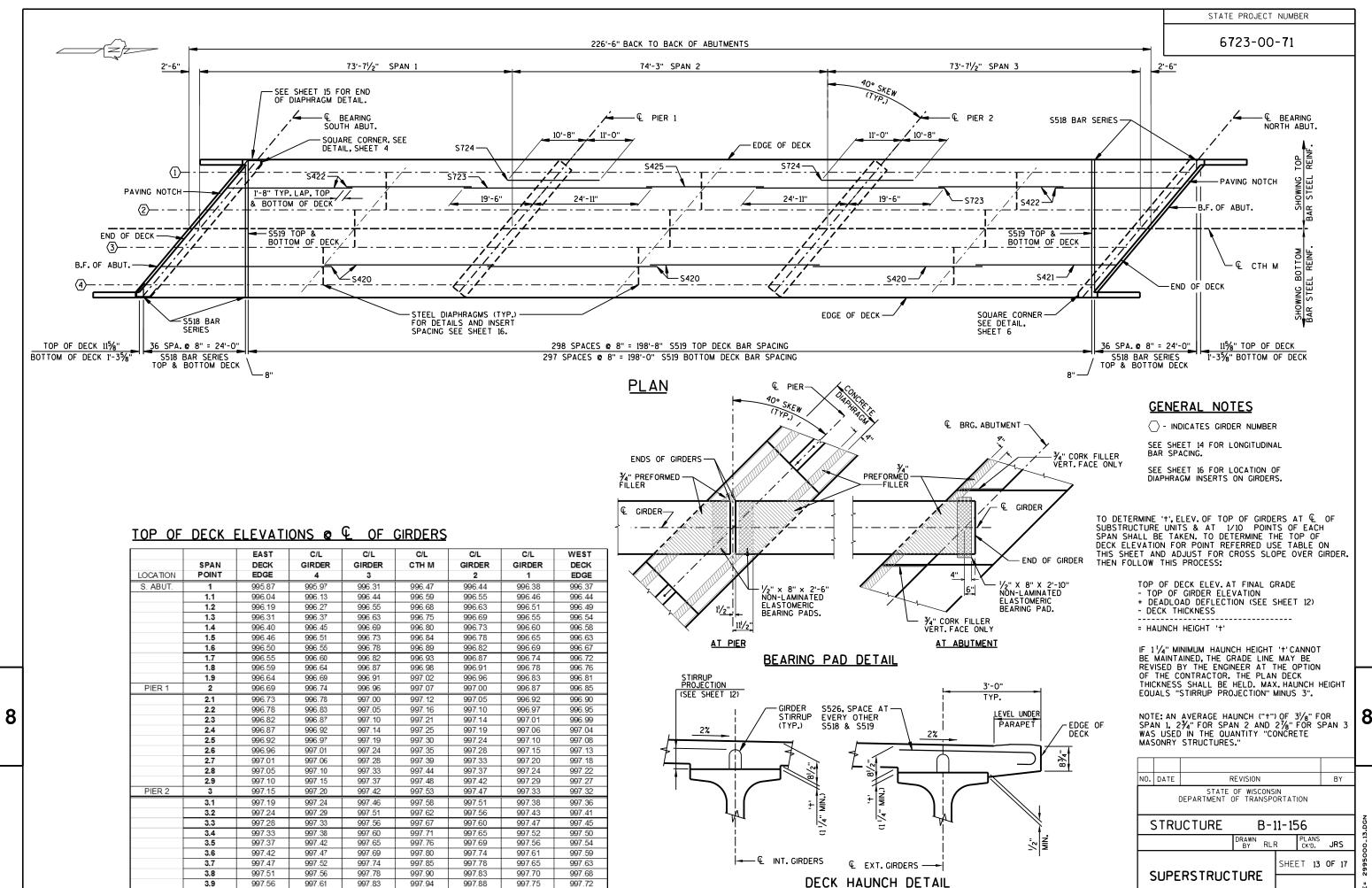












N. ABUT

997.60

997.65

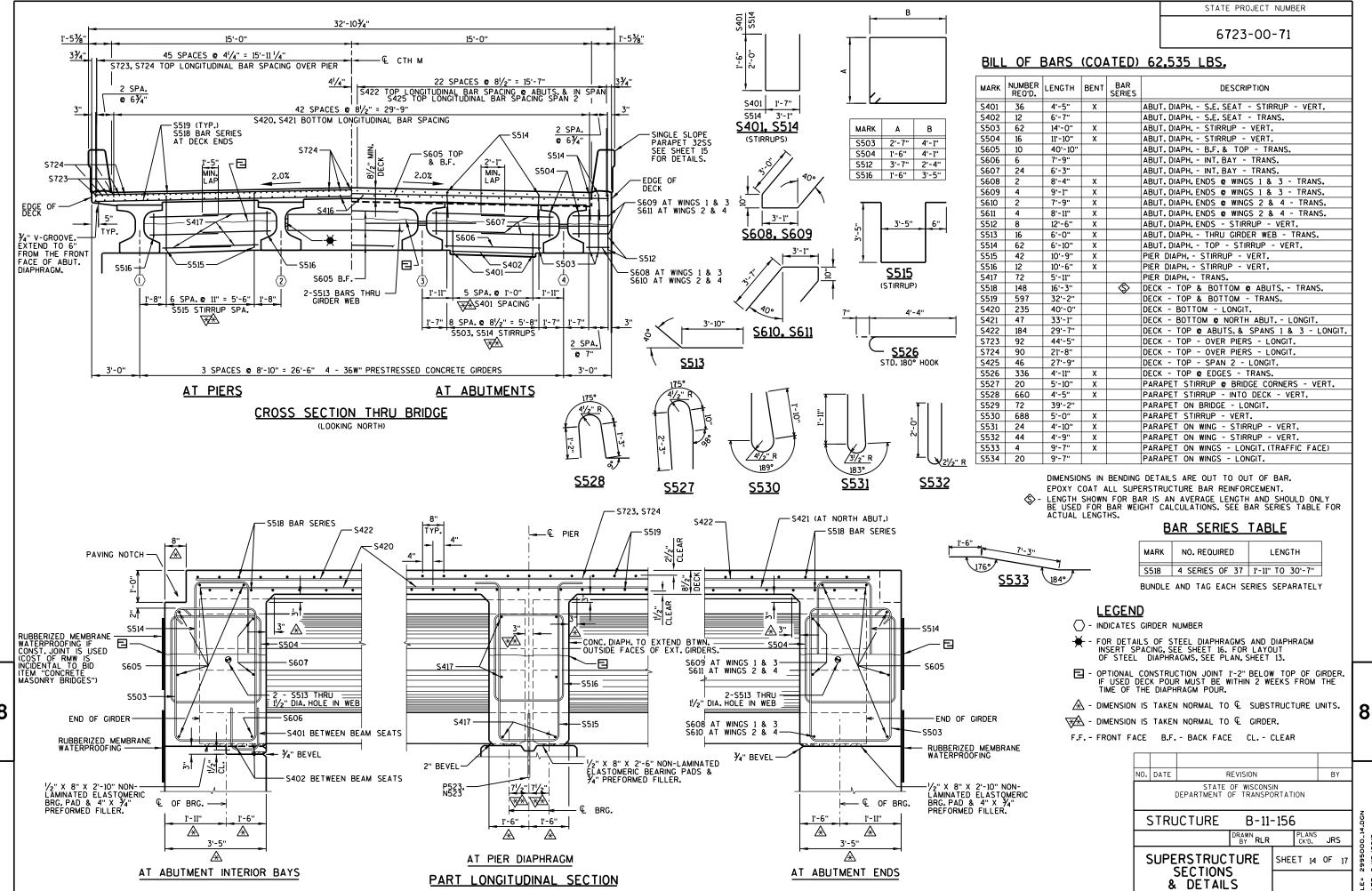
997.88

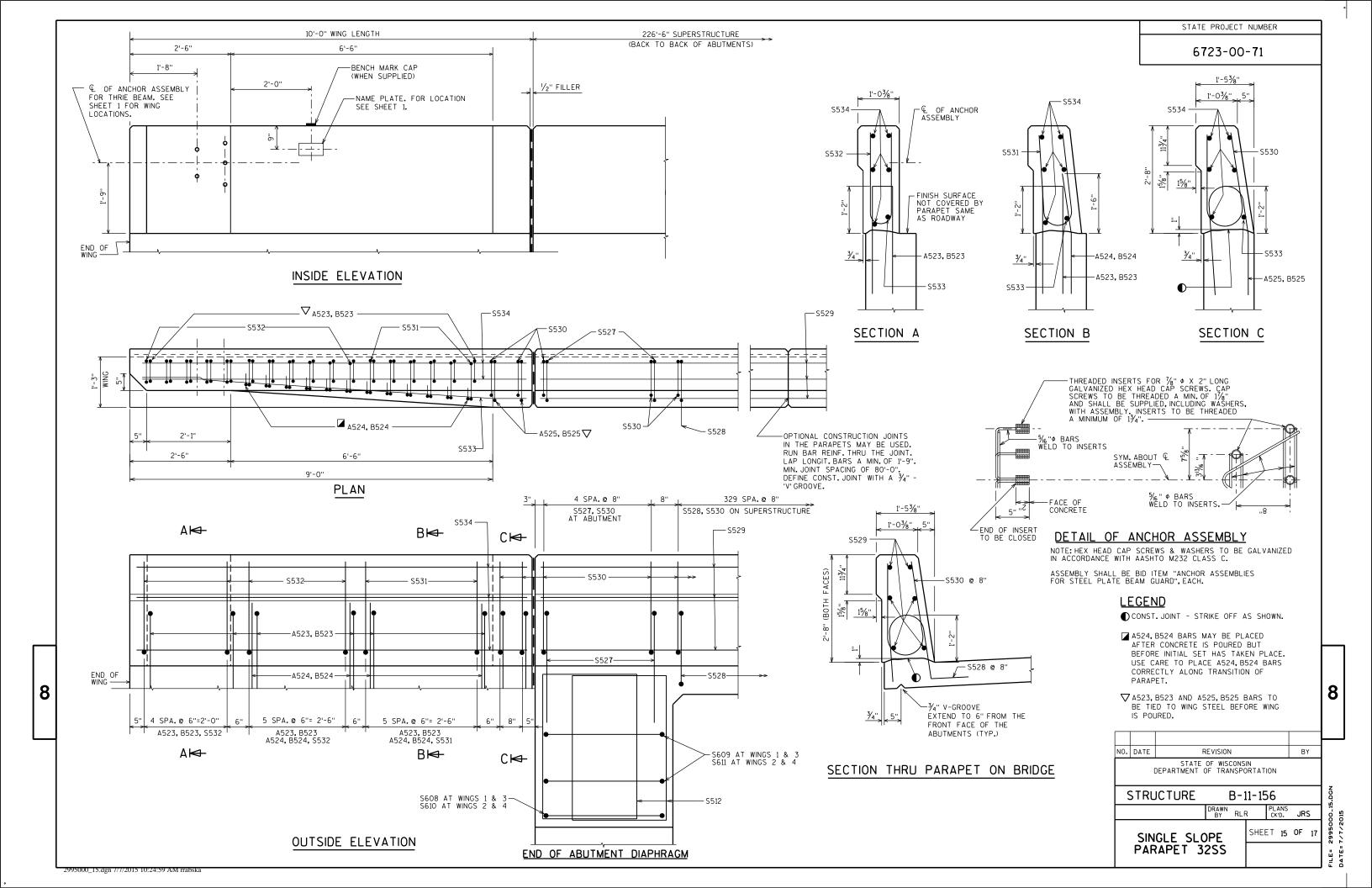
997.99

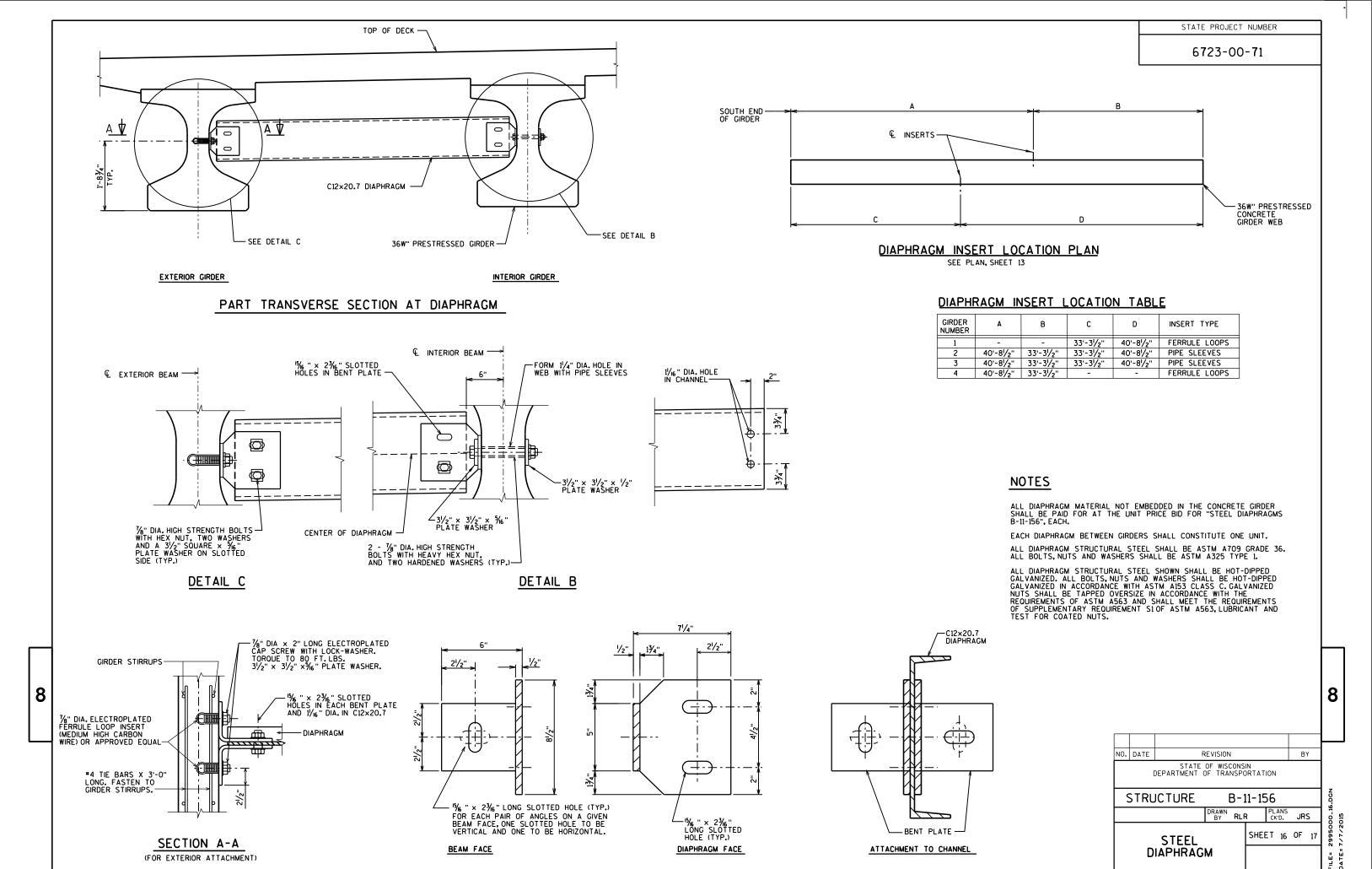
997.92

997.78

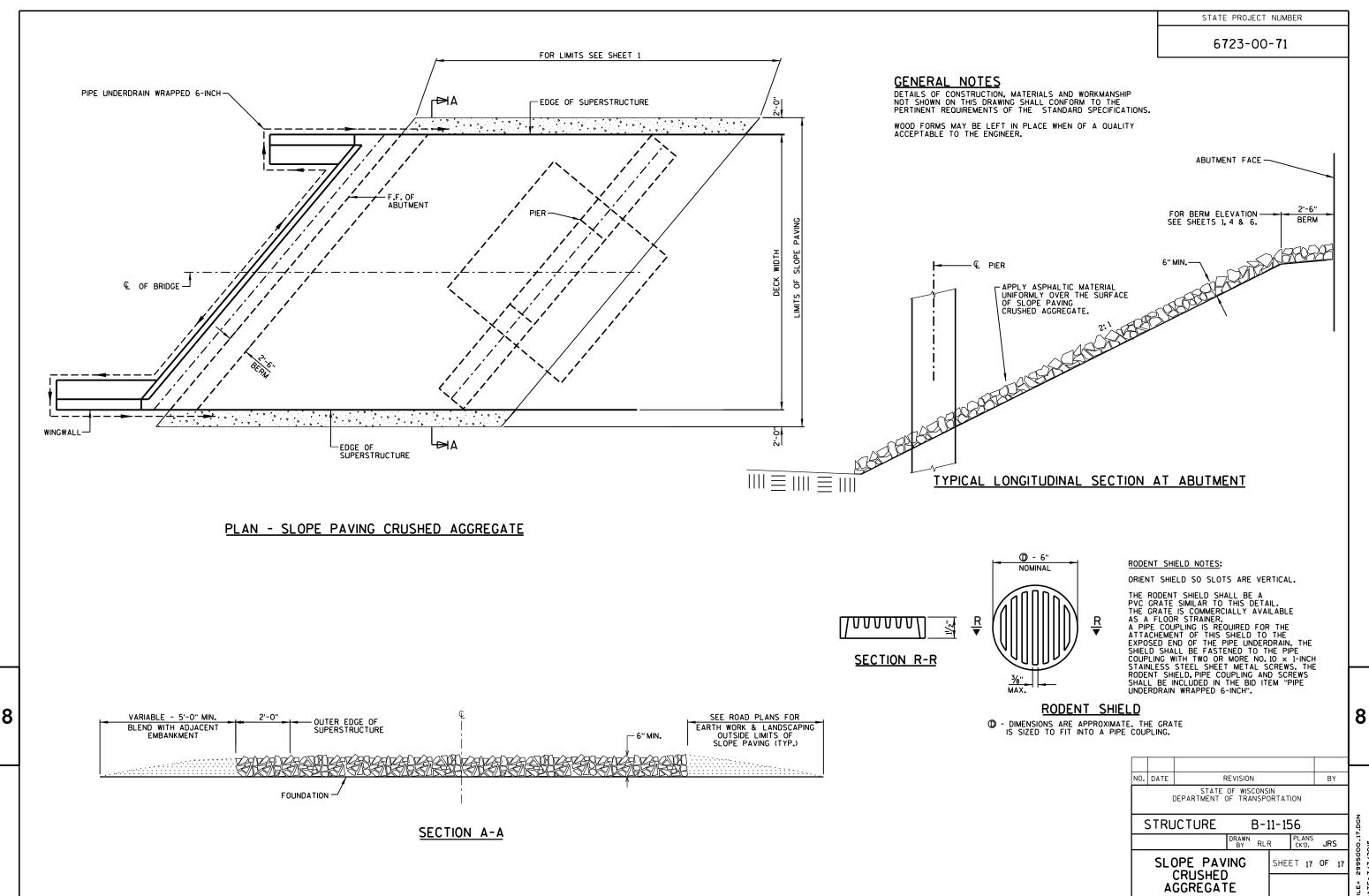
997.75







2995000_16.dgn ////2015 10:25:45 AM rrabska



PROJECT I.D. 6723-00-71 EARTHWORK SUMMARY

STA	EXCAVATION COMMON CY	EXCAVATION ROCK CY	FILL (1) CY	EXPANDED FILL (2) CY	WASTE CY	BORRO\ CY
6+50.00	CY	CY	CY	CY	CY	L CY
0+30.00	35	0	7	9	26	-26
6+75.00						
	33	0	11	14	19	-19
7+00.00	10	0	3	4	6	-6
7+08.00	.0	Ū	· ·	•	· ·	
	23	0	2	3	20	-20
7+25.00	23	0	2	3	20	-20
7+42.00	20	Ü	2	3	20	20
	10	0	2	3	7	-7
7+50.00	64	0	4	5	59	-59
7+75.00	04	U	4	3	39	-59
	109	0	0	0	109	-109
8+00.00	86	0	0	0	86	-86
8+15.00	00	O	Ü	O	00	-00
	205	0	0	0	205	-205
8+50.00	212	0	0	0	212	-212
8+79.75	212	O	U	O	212	-212
		UCTURE B-11-0156				
ILL BELOW SLOPE PAVING, N. ABUT. 11+06.25	0	0	384	500	-500	500
11400.20	460	0	0	0	460	-460
11+50.00		_				
11+56.00	59	0	0	0	59	-59
11100.00	92	0	0	0	92	-92
11+67.00		_	_			
11+81.00	117	0	0	0	117	-117
11701.00	161	0	3	4	157	-157
12+00.00						
12+06.00	47	0	2	3	44	-44
12700.00	168	0	11	14	154	-154
12+32.00						
12+50.00	97	0	8	10	87	-87
12730.00	55	0	4	5	50	-50
12+64.00						
13+00.00	115	0	5	7	108	-108
13+00.00	77	0	1	1	76	-76
13+30.00	<u> </u>		•			
SUBTOTALS	212		04	44	700	700
SOUTH APPROACH NORTH APPROACH	810 1448	0 0	31 34	41 44	769 1404	-769 -1404
ILL BELOW SLOPE PAVING, N. ABUT.	0	0	384	500	-500	500
TOTALS	2258	0	449	585	1673	-1673

PROJECT NO: 6723-00-71

HWY: CTH M

COUNTY: COLUMBIA

EARTHWORK

PLOT BY : janyder

PLOT NAME :

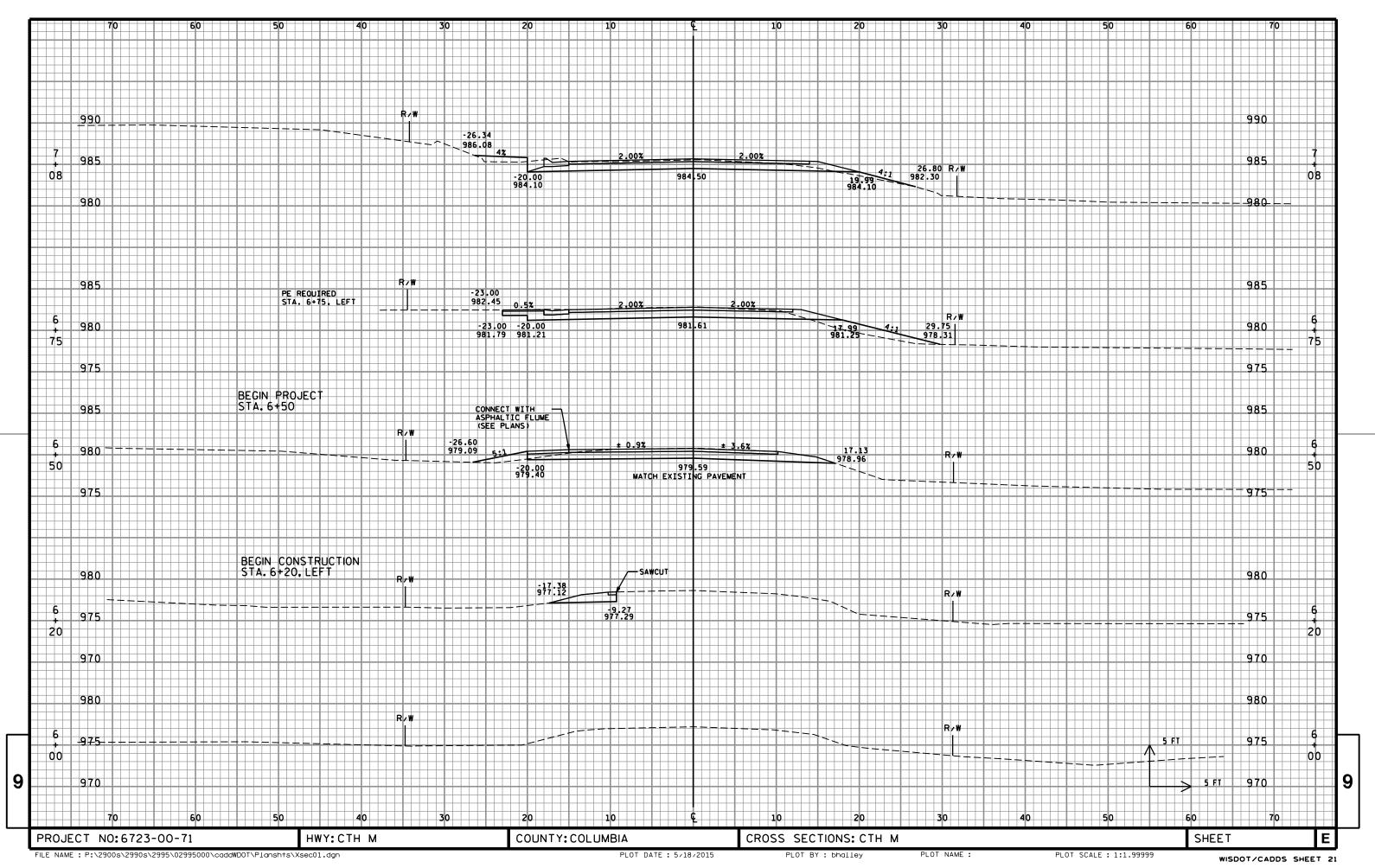
PLOT SCALE : 1:20

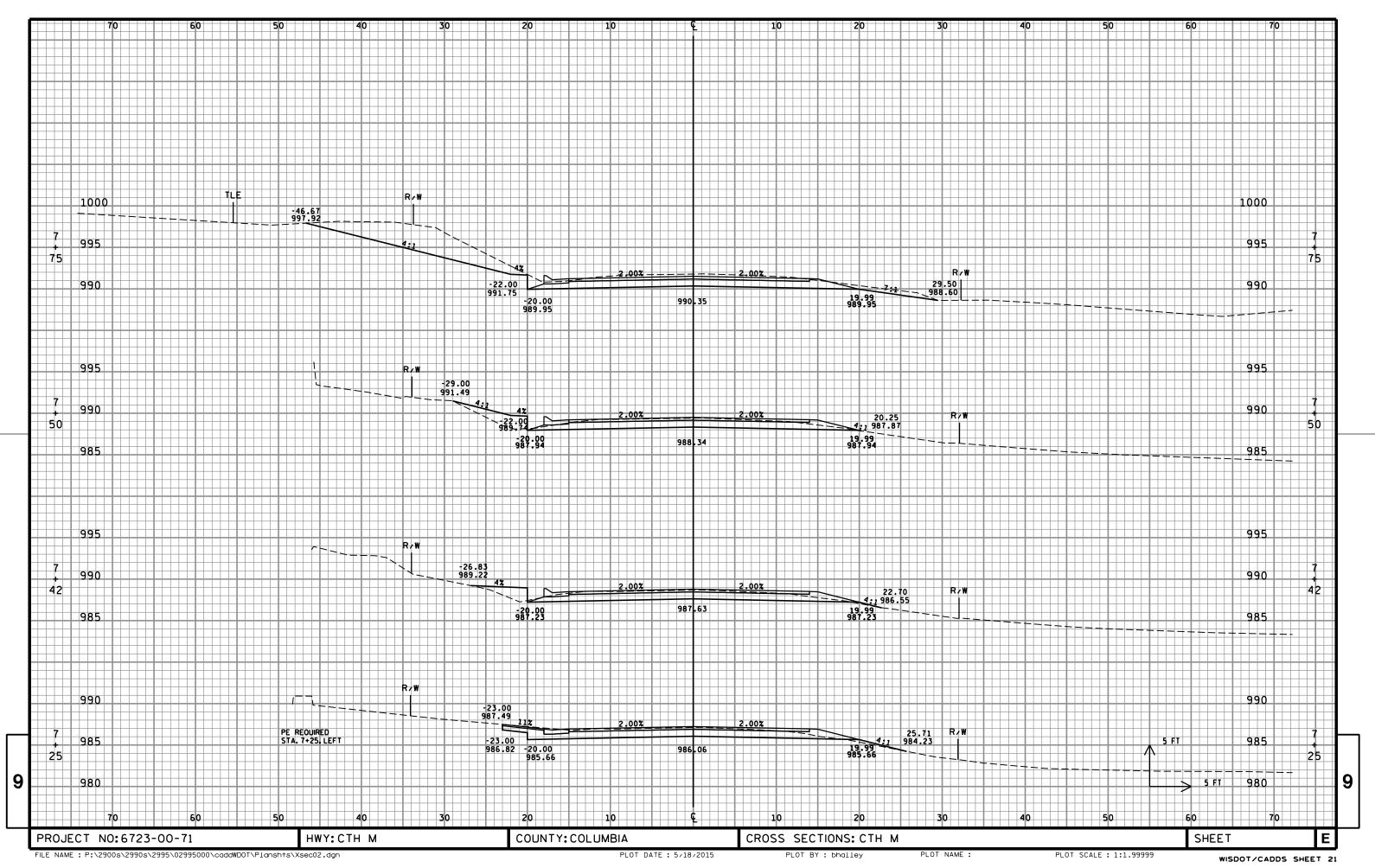
SHEET

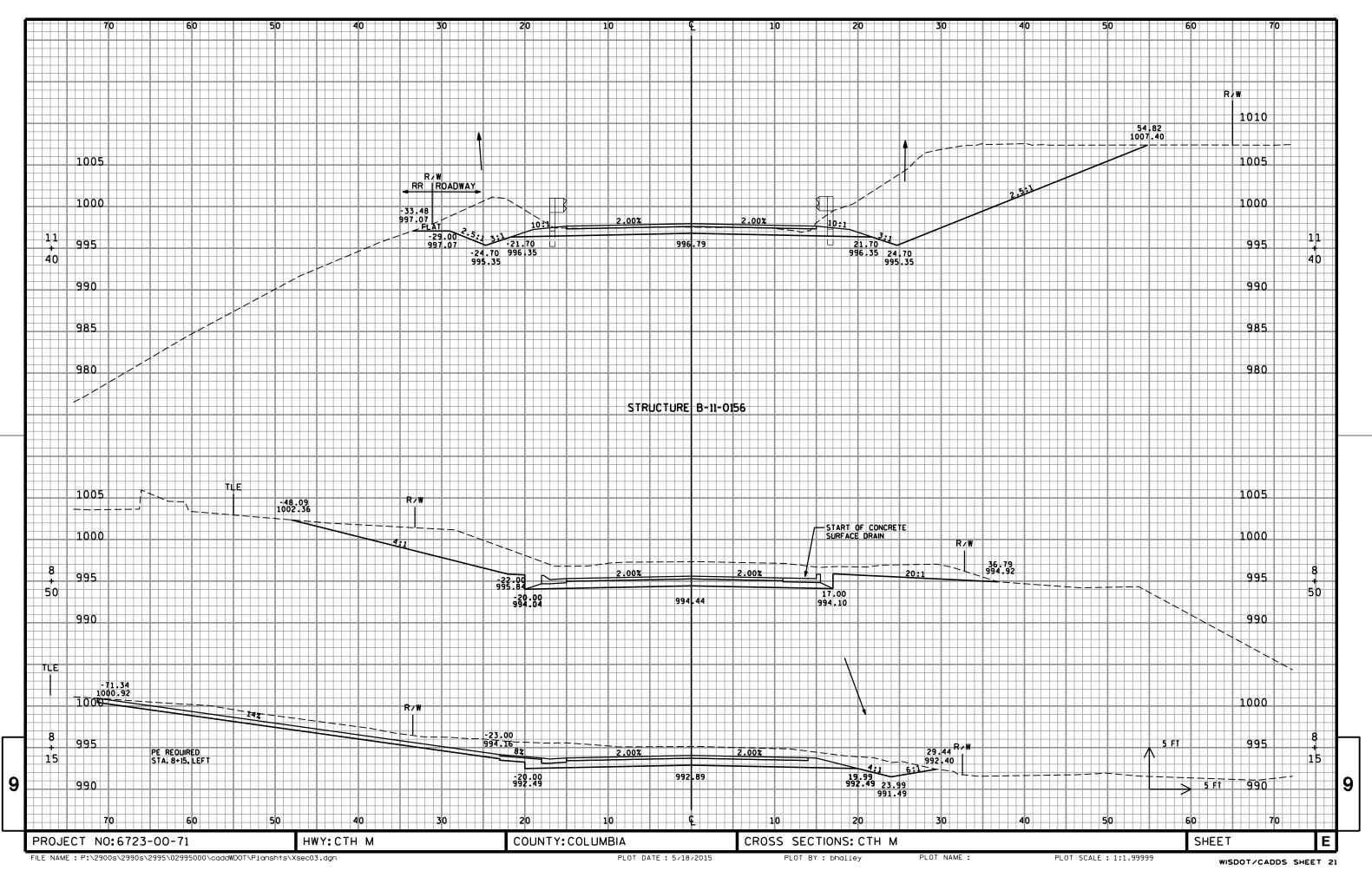
FILE NAME : P:\2900a\2990a\2995\02995000\Eatlmate\2995000_MiscOty & Earthwork Borders.dgn

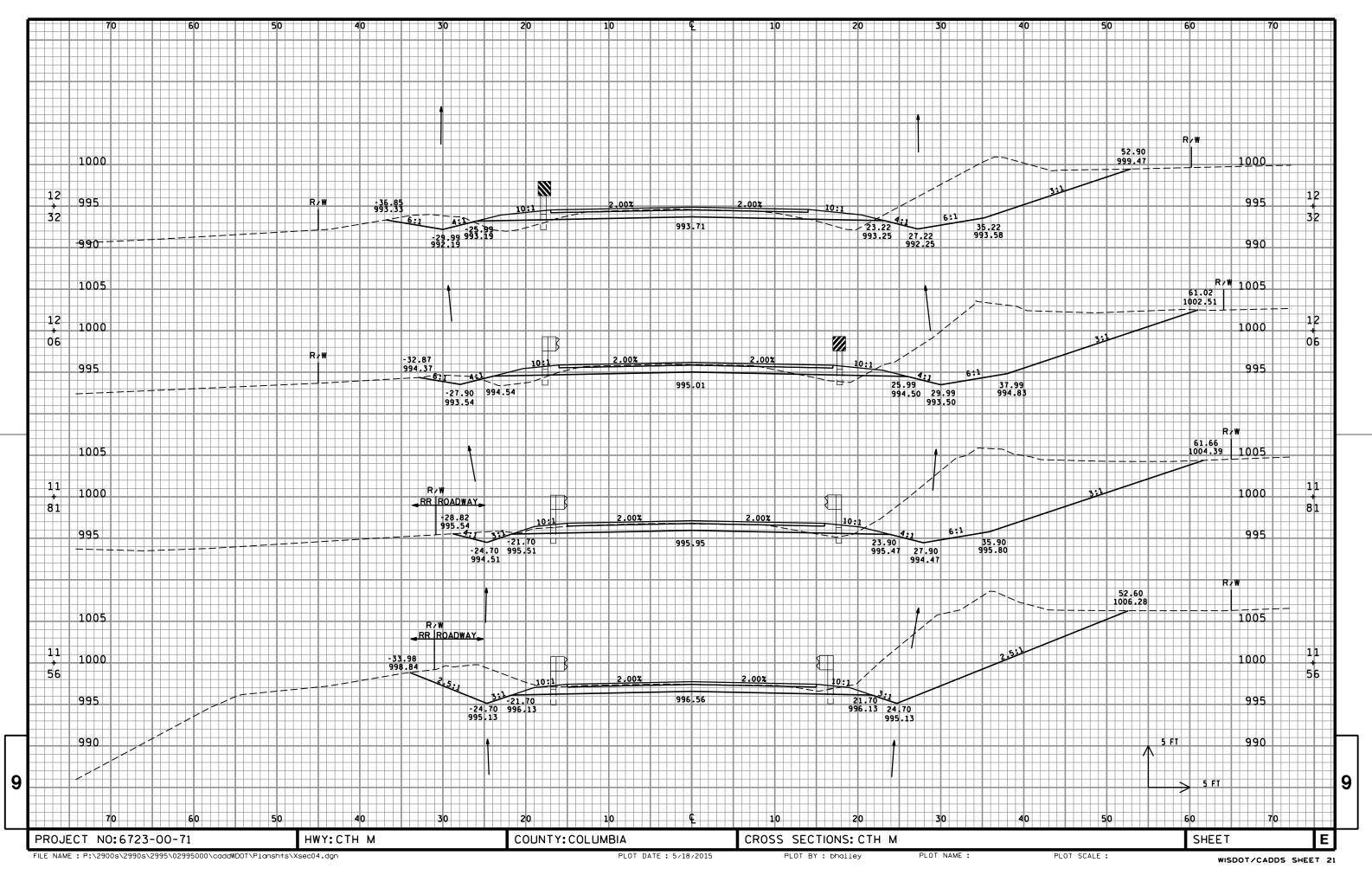
PLOT DATE : 5/12/2015

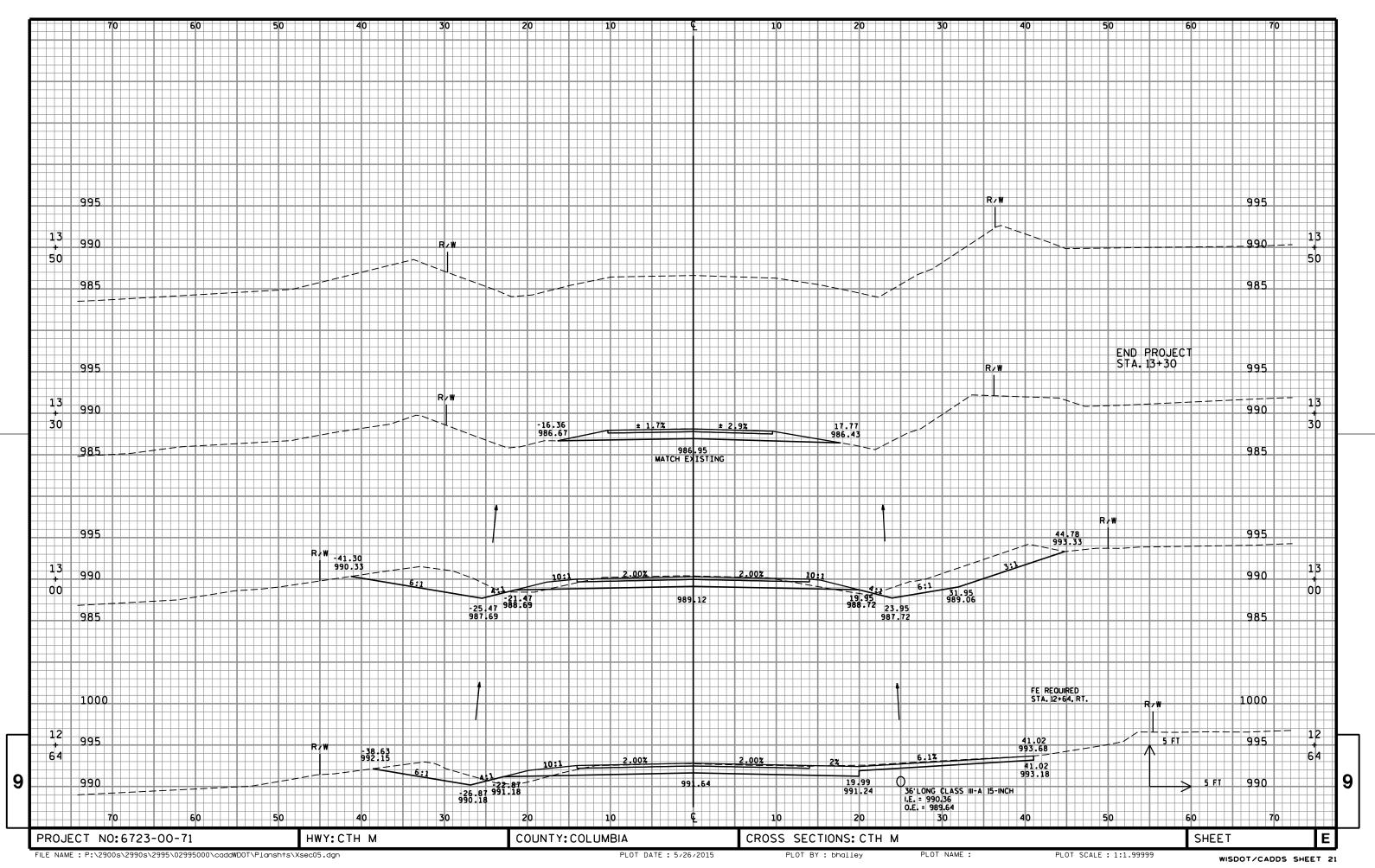
WISDOT/CADDS SHEET 49













Wisconsin Department of Transportation

Dedicated people creating transportation solutions through innovation and exceptional service.

http://www.dot.wisconsin.gov