FEBRUARY 2020

Section No. 6 Section No. 7

Section No. 8

Section No. 9

Section No. 9

TOTAL SHEETS = 44

ORDER OF SHEETS STATE OF WISCONSIN Section No. 1 DEPARTMENT OF TRANSPORTATION Section No. 2 Typical Sections and Details Estimate of Quantities

PLAN OF PROPOSED IMPROVEMENT

CTH H - CTH P

TROUT RUN CREEK BRIDGE B-27-165

CTH X

JACKSON COUNTY

STATE PROJECT NUMBER 7340-00-70

Town of Albion

= 110,400

Miscellaneous Quantities

Standard Detail Drawings

Computer Earthwork Data

Plan and Profile (Includes Erosion Control Plan)

Right of Way Plat

Sign Plates

Structure Plans

Cross Sections

DESIGN DESIGNATION

(2020) = 265 A.A.D.T. A.A.D.T. (2040) = 340D.H.V. **= 31** D.D. = 60/40 = 10% (ASSUMED) DESIGN SPEED = 40 MPH

CONVENTIONAL SYMBOLS

ESALS

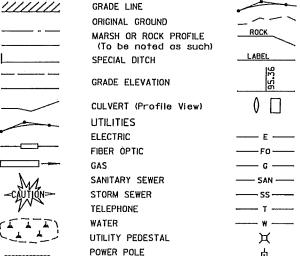
PLAN.

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

PROPOSED CULVERT (Box or Pipe) COMBUSTIBLE FLUIDS

MARSH AREA

WOODED OR SHRUB AREA



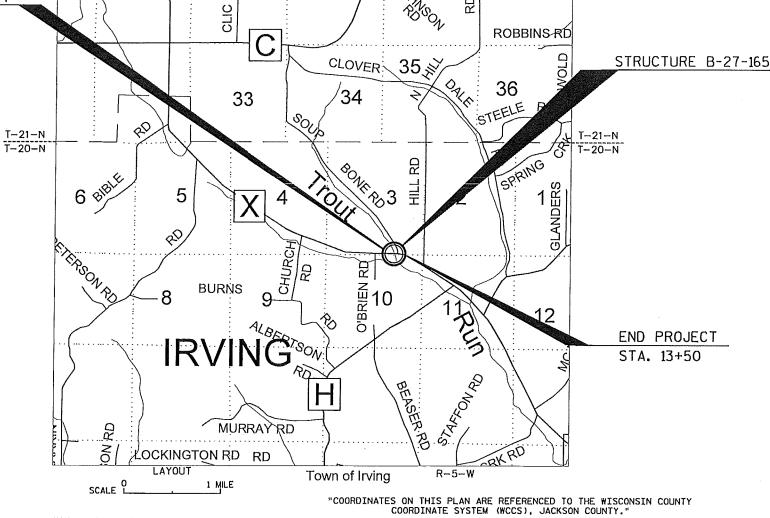
TELEPHONE POLE

PROFILE

BEGIN PROJECT

STA. 12+00 Y=159,151.52

X=354.883.09

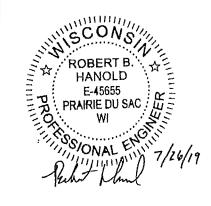


R-5-W

FEDERAL PROJECT STATE PROJECT PROJECT CONTRACT WISC 2020054 7340-00-70

> ACCEPTED FOR **JACKSON** ORIGINAL PLANS PREPARED BY

Engineers - Architects - Surveyors



STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION

PREPARED BY

Surveyor Designer Project Manager JEWELL ASSOCIATES ENGINEERS, INC. JEWELL ASSOCIATES ENGINEERS, INC

Regional Supervisor

ANDY STENSLAND, P.E.

ATE: 7/31/19

TOTAL NET LENGTH OF CENTERLINE = 0.028 MI

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

LIST OF STANDARD ABBREVIATIONS

ABUT	Abutment	INV	Invert	SALV	Salvaged
AC	Acre	IP IP	Iron Pipe or Pin	SAN S	Sanitary Sewer
AGG	Aggregate	irs	Iron Rod Set	SEC	Section
AH	Ahead	JT	Joint	SHLDR	Shoulder
<	Angle	JCT	Junction	SHR	Shrinkage
ÀSPH	Asphaltic	LHF	Left-Hand Forward	SW	Sidewalk
AVG	Average	L	Length of Curve	S	South
ADT	Average Daily Traffic	LIN FT or LF	Linear Foot	SQ	Square
BAD	Base Aggregate Dense	LC	Long Chord of Curve	SF or SQ FT	Square Feet
BK	Back	MH	Manhole	SY or SQ YD	Square Yard
BF	Back Face	MB	Mailbox	STD	Standard
BM	Bench Mark	ML or M/L	Match Line	SDD	Standard Detail Drawings
BR	Bridge	N ,	North	STH	State Trunk Highways
C or C/L	Center Line	Υ	North Grid Coordinate	STA	Station
CC '	Center to Center	OD	Outside Diameter	SS	Storm Sewer
CTH	County Trunk Highway	PLE	Permanent Limited	SG	Subgrade
CR	Creek		Easement	SE	Superelevation
CR	Crushed	PT	Point	SL or S/L	Survey Line
CY or CU YD	Cubic Yard	PC	Point of Curvature	SV	Septic Vent
CP	Culvert Pipe	PI	Point of Intersection	Т	Tangent
C & G	Curb and Gutter	PRC	Point of Reverse Curvature	TEL	Telephone
D	Degree of Curve	PT	Point of Tangency	TEMP	Temporary
DHV	Design Hour Volume	POC	Point On Curve	TI	Temporary Interest
DIA	Diameter	POT	Point on Tangent	TLE	Temporary Limited
E	East	PVC	Polyvinyl Chloride		Easement
Χ	East Grid Coordinate	PCC	Portland Cement Concrete	t	Ton
ELEC	Electric (al)	LB	Pound	T or TN	Town
EL or ELEV	Elevation	PSI	Pounds Per Square Inch	TRANS	Transition
ESALS	Equivalent Single Axle	PE	Private Entrance	TL or T/L	Transit Line
	Loads	R	Radius	T	Trucks (percent of)
EBS	Excavation Below Subgrade	RR	Railroad	TYP	Typical
FF	Face to Face	R	Range	UNCL	Unclassified
FE	Field Entrance	RL or R/L	Reference Line	UG	Underground Cable
F	Fill	RP	Reference Point	USH	United States Highway
FG	Finished Grade	RCCP	Reinforced Concrete	VAR	Variable
FL or F/L	Flow Line	סבסים	Culvert Pipe	V	Velocity or Design Speed
FT	Foot	REQ'D	Required	VERT	Vertical
FTG	Footing	RES	Residence or Residential	VC	Vertical Curve
GN HT	Grid North	RW RT	Retaining Wall	VOL WM	Volume Water Main
CWT	Height Hundredweight	RHF	Right Right—Hand Forward	WM WV	water Main Water Valve
HYD	Hydrant	R/W	Right-Hand Forward Right-of-Way	W	Water valve West
INL	Inlet	R/W R	Right-of-Way River	WB	Westbound
ID	Inside Diameter	RD	Road	YD	Yard
טו	maide Didiffeter	RDWY	Roadway	10	rara
		NUWI	Nodaway		

	HYDROLOGIC SOIL GROUP												
		P	4	В			С			D			
	S		RANGE CENT)	S	SLOPE RANGE (PERCENT)			SLOPE RANGE (PERCENT)			SLOPE RANGE (PERCENT)		
LAND USE	0-2	2-6	6 & OVER	0-2	2-6	6 & OVER	0-2	2-6	6 & OVER	0-2	2-6	6 & OVER	
ROW CROPS	.08 .22	.16 .30	.22 .38	.12 .26	.20 .34	.27 .44	.15 .30	.24 .37	.33 .50	.19 .34	.28 .41	.38 .56	
MEDIAN STRIP-TURF	.19 .24	.20 .26	.24 .30	.19 .25	.22 .28	.26 .33	.20 .26	.23 .30	.30 .37	.20 .27	.25 .32	.30 .40	
SIDE SLOPE- TURF			.25 .32			.27 .34			.28 .36			.30 .38	
PAVEMENT						•			•	•			
ASPHALT						.70 -	95						
CONCRETE						.80 -	95						
BRICK	BRICK .7080												
DRIVES, WALKS	5					.75 -	85						
ROOFS	ROOFS .7595												
GRAVEL ROADS	GRAVEL ROADS, SHOULDERS .4060												

TOTAL PROJECT AREA = 0.35 ACRES

TOTAL AREA EXPECTED TO BE DISTURBED BY CONSTRUCTION ACTIVITIES = 0.22 ACRES

GENERAL NOTES

THE LOCATIONS OF EXISTING AND PROPOSED UTILITY INSTALLATIONS AS SHOWN ON THE PLAN ARE APPROXIMATE. THERE MAY BE OTHER UTILITY INSTALLATIONS WITHIN THE PROJECT AREA

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

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

DISTURBED AREAS SHOWN WITHIN THE RIGHT-OF-WAY, EXCEPT THE AREAS WITHIN THE FINISHED SHOULDER POINTS ARE TO BE FERTILIZED (TYPE B), SEEDED (USE TEMPORARY SEEDING AND SEED MIX NO. 20), AND MULCHED AS DIRECTED BY THE ENGINEER. ALL POST CONSTRUCTION WET AREAS SHALL BE SEEDED WITH SEEDING MIXTURE NO. 60.

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

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

MULCH ALL MAINLINE SLOPES AS DIRECTED BY THE ENGINEER IN THE FIELD.

FILL EXPANSION IS VARIABLE AND IS ESTIMATED AT 25%.

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

REMOVAL OF ASPHALTIC SURFACES WHERE AN ABUTTING ASPHALTIC SURFACE IS TO REMAIN IN PLACE SHALL REQUIRE A SAWCUT MEETING THE APPROVAL OF THE ENGINEER IN THE FIELD.

THE LOCATION OF ALL PERMANENT SIGNING SHALL BE VERIFIED BY THE ENGINEER IN THE FIELD

WETLANDS ARE PRESENT IN THE PROJECT LIMITS. THE CONTRACTOR SHALL NOT OPERATE EQUIPMENT BEYOND THE SLOPE INTERCEPTS FROM STA. 12+08 - STA. 12+59, LT., STA. 12+91 - STA. 13+15, LT., STA. 12+33 - STA. 12+60, RT., AND STA. 12+93 - STA. 13+36, RT.

4-INCHES OF ASPHALTIC SURFACE SHALL BE CONSTRUCTED WITH A $1\frac{3}{4}$ -INCH UPPER LAYER AND A $2\frac{1}{4}$ -INCH LOWER LAYER. THE NOMINAL SIZE AGGREGATE USED FOR THE LOWER LAYER SHALL

ASPHALTIC SURFACE QUANTITIES WERE CALCULATED USING 115 LB/SY/IN.

CONTACTS

JACKSON COUNTY HIGHWAY **DEPARTMENT:**

JAY BOREK, COMMISSIONER 119 HARRISON STREET BLACK RIVER FALLS, WI 54615 PH: (715) 284-0233 EMAIL: jay.borek@co.jackson.wi.us

DESIGN CONSULTANT:

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

DNR LIAISON:

STATE OF WISCONSIN DNR WEST CENTRAL REGION HEADQUARTERS 1300 W CLAIREMONT AVE. EAU CLAIRE, WI 54701 ATTN: LEAH NICOL PH: (715) 934-9014 EMAIL: Léah.Nicol@wisconsin.gov

UTILITIES

TELEPHONE

CENTURYLINK ATTN: BRET CLARK 311 SOUTH COURT STREET SPARTA, WI 54656 PH: (608) 269-0819 EMAIL: bret.clark@centurylink.com

ELECTRIC

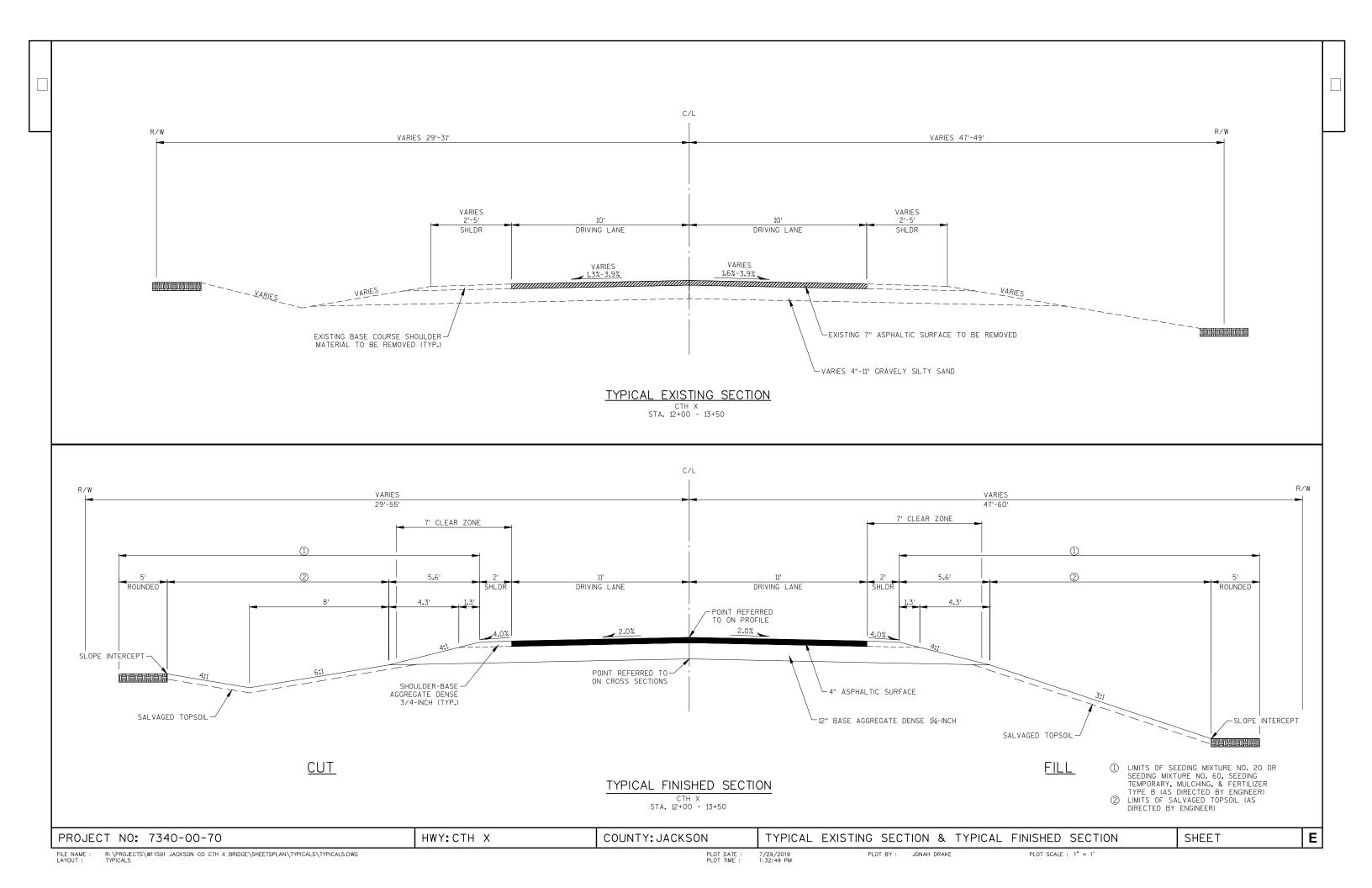
JACKSON ELECTRIC COOPERATIVE ATTN: ERIC STEIEN PO BOX 546 BLACK RIVER FALLS, WI 54615 PH: (715) 284-5385 EMAIL: esteien@jackelec.com

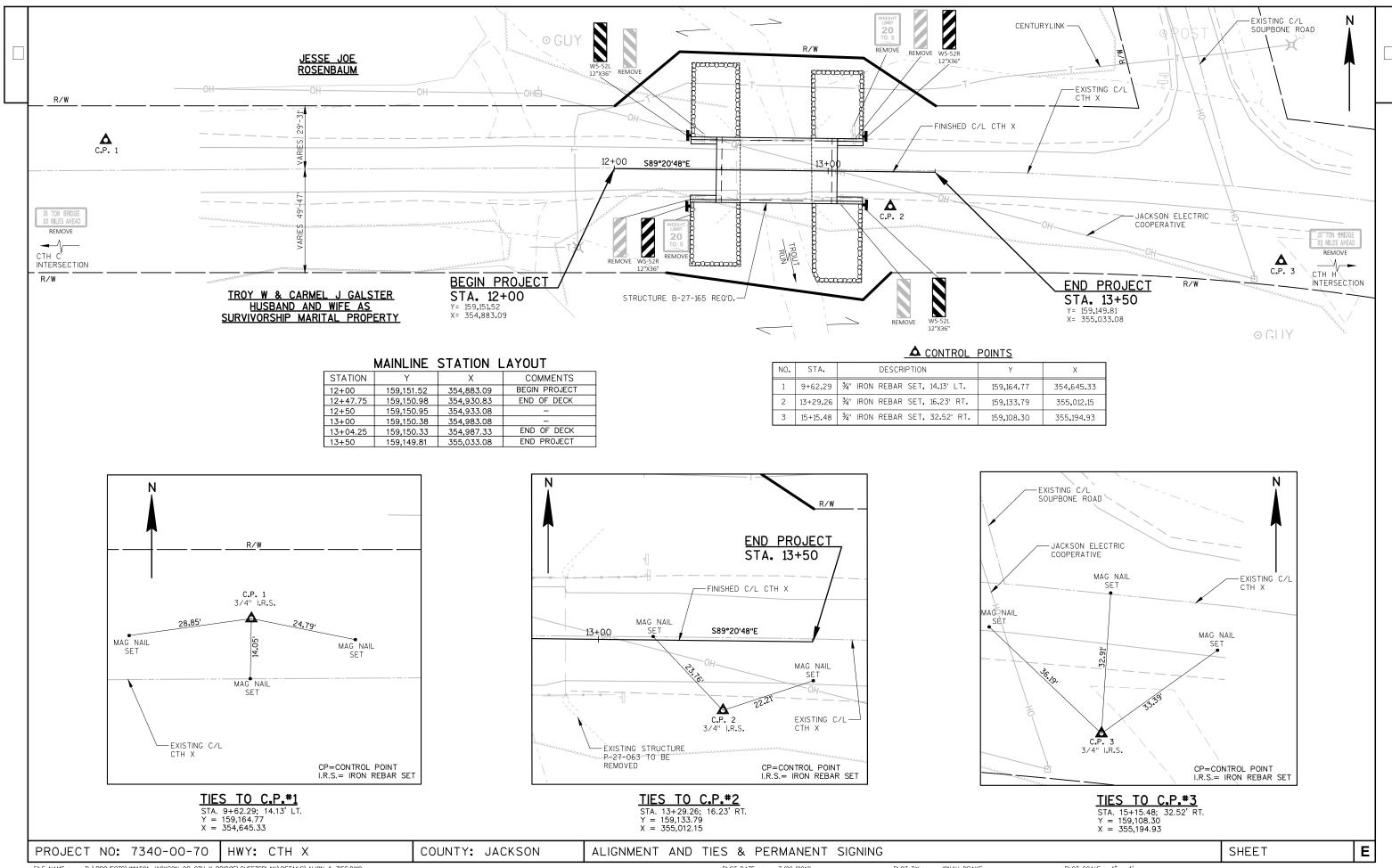


* DENOTES UTILITY IS NOT A MEMBER OF DIGGERS HOTLINE

PROJECT NO: 7340-00-70 HWY: CTH X COUNTY: JACKSON GENERAL NOTES, CONTACTS, UTILITIES, STD ABBREVIATIONS, AND HSG CHART

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					7340-00-70
Line	Item	Item Description	Unit	Total	Qty
0002	201.0205	Grubbing	STA	2.000	2.000
0004	203.0600.S	Removing Old Structure Over Waterway With Minimal	LS	1.000	1.000
		Debris (station) 01. 12+75			
0006	205.0100	Excavation Common	CY	85.000	85.000
8000	206.1000	Excavation for Structures Bridges (structure) 01. B-27-165	LS	1.000	1.000
0010	208.0100	Borrow	CY	195.000	195.000
0012	210.1500	Backfill Structure Type A	TON	320.000	320.000
0014	213.0100	Finishing Roadway (project) 01. 7340-00-70	EACH	1.000	1.000
0016	305.0110	Base Aggregate Dense 3/4-Inch	TON	15.000	15.000
0018	305.0120	Base Aggregate Dense 1 1/4-Inch	TON	240.000	240.000
0020	455.0605	Tack Coat	GAL	14.000	14.000
0022	465.0105	Asphaltic Surface	TON	63.000	63.000
0024	502.0100	Concrete Masonry Bridges	CY	132.000	132.000
0026	502.3200	Protective Surface Treatment	SY	213.000	213.000
0028	503.0136	Prestressed Girder Type I 36-Inch	LF	220.000	220.000
0030	505.0400	Bar Steel Reinforcement HS Structures	LB	3,560.000	3,560.000
0032	505.0600	Bar Steel Reinforcement HS Coated Structures	LB	16,290.000	16,290.000
0034	506.2605	Bearing Pads Elastomeric Non-Laminated	EACH	8.000	8.000
0036	506.4000	Steel Diaphragms (structure) 01. B-27-165	EACH	3.000	3.000
0038	513.4061	Railing Tubular Type M	LF	166.000	166.000
0040	516.0500	Rubberized Membrane Waterproofing	SY	12.000	12.000
0040	550.1100	Piling Steel HP 10-Inch X 42 Lb	LF	500.000	500.000
0042	606.0300	Riprap Heavy	CY	355.000	355.000
0044	612.0406	Pipe Underdrain Wrapped 6-Inch	LF	200.000	200.000
0048	618.0100	Maintenance And Repair of Haul Roads (project) 01.	EACH	1.000	1.000
0040	010.0100	7340-00-70	LACH	1.000	1.000
0050	619.1000	Mobilization	EACH	1.000	1.000
0052	624.0100	Water	MGAL	4.000	4.000
0054	625.0500	Salvaged Topsoil	SY	375.000	375.000
0056		Mulching	SY	790.000	790.000
0058	628.1504	Silt Fence	LF	410.000	410.000
0060	628.1520	Silt Fence Maintenance	LF	820.000	820.000
0060	628.1905	Mobilizations Erosion Control	EACH	3.000	
				2.000	3.000
0064	628.1910	Mobilizations Emergency Erosion Control	EACH		2.000
0066	628.7504	Temporary Ditch Checks	LF CW/T	24.000	24.000
0068	629.0210	Fertilizer Type B	CWT	0.500	0.500
0070	630.0120	Seeding Mixture No. 20	LB	15.000	15.000
0072	630.0160	Seeding Mixture No. 60	LB	2.000	2.000
0074	630.0200	Seeding Temporary	LB	18.000	18.000

Estimate Of Quantities

					7340-00-70
Line	Item	Item Description	Unit	Total	Qty
0076	630.0300	Seeding Borrow Pit	LB	3.000	3.000
0078	630.0500	Seed Water	MGAL	19.000	19.000
0800	633.5100	Markers Row	EACH	9.000	9.000
0082	634.0612	Posts Wood 4x6-Inch X 12-FT	EACH	4.000	4.000
0084	637.2230	Signs Type II Reflective F	SF	12.000	12.000
0086	638.2602	Removing Signs Type II	EACH	8.000	8.000
8800	638.3000	Removing Small Sign Supports	EACH	8.000	8.000
0090	642.5001	Field Office Type B	EACH	1.000	1.000
0092	643.0420	Traffic Control Barricades Type III	DAY	1,134.000	1,134.000
0094	643.0705	Traffic Control Warning Lights Type A	DAY	1,764.000	1,764.000
0096	643.0900	Traffic Control Signs	DAY	882.000	882.000
0098	643.5000	Traffic Control	EACH	1.000	1.000
0100	645.0111	Geotextile Type DF Schedule A	SY	90.000	90.000
0102	645.0120	Geotextile Type HR	SY	580.000	580.000
0104	646.1020	Marking Line Epoxy 4-Inch	LF	600.000	600.000
0106	650.4500	Construction Staking Subgrade	LF	93.000	93.000
0108	650.5000	Construction Staking Base	LF	93.000	93.000
0110	650.6500	Construction Staking Structure Layout (structure) 01. B-27-165	LS	1.000	1.000
0112	650.9910	Construction Staking Supplemental Control (project) 01. 7340-00-70	LS	1.000	1.000
0114	650.9920	Construction Staking Slope Stakes	LF	93.000	93.000
0116	690.0150	Sawing Asphalt	LF	40.000	40.000
0118	715.0502	Incentive Strength Concrete Structures	DOL	792.000	792.000
0120	ASP.1T0A	On-the-Job Training Apprentice at \$5.00/HR	HRS	200.000	200.000
0122	ASP.1T0G	On-the-Job Training Graduate at \$5.00/HR	HRS	200.000	200.000

EARTHWORK SUMMARY

		205.0100				MASS	
		EXCAVATION COMMON	AVAILABLE	UNEXPANDED	FILL	ORDINATE	208.0100
		CUT	MATERIAL	FILL	(25%)	+/-	BORROW
FROM/TO STA	LOCATION	(CY)	(CY) (1)	(CY)	(2)	(CY) (3)	(CY)
12+00 - 13+50	MAINLINE	85	85	224	280	-195	195
	TOTALS =	85	85	224	280		195

GRUBBING

201.0205 LOCATION (STA) STATION 12+00 - 13+50 MAINLINE TOTALS =

NOTES:

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

BASE AGGREGATE DENSE

		305.0110 BASE AGGREGATE DENSE 3/4-INCH	305.0120 BASE AGGREGATE DENSE 1 1/4-INCH
STATION - STATION	LOCATION	(TON)	(TON)
12+00 - 12+48	MAINLINE	7.5	122
13+04 - 13+50	MAINLINE	7.5	118
	TOTALS =	15	240

ASPHALTIC SURFACE

		455.0605 TACK COAT	465.0105 ASPHALTIC SURFACE
STATION - STATION	LOCATION	(GAL)	(TON)
12+00 - 12+48	MAINLINE	7	32
13+04 - 13+50	MAINLINE	7	31
	TOTALS =	14	63

WATER

			624.0100
STATION-S	TATION	LOCATION	(MGAL)
12+00-1	3+50	MAINLINE	4
		TOTALS =	4

FINISHING ITEMS

STATION - STATION	LOCATION	625.0500 SALVAGED TOPSOIL (SY)	627.0200 MULCHING (SY)	629.0210 FERTILIZER TYPE B (CWT)	630.0120 SEEDING MIXTURE NO. 20 (LB)	630.0160 SEEDING MIXTURE NO. 60 (LB)	630.0200 SEEDING TEMPORARY (LB)	630.0300 SEEDING BORROW PIT (LB)	630.0500 SEED WATER (MGAL)
12+00 - 13+50	MAINLINE	300	510	0.3	12	* 1	13		12
	BORROW PIT		120	0.1				2	3
	UNDISTRIBUTED	75	160	0.1	3	1	5	1	4
	TOTALS =	375	790	0.5	15	2	18	3	19

SILT FENCE

STATION - STATION 11+93 - 12+59 12+58 - 12+59 12+90 - 12+91 12+90 - 13+54	LOCATION MAINLINE, LT. MAINLINE, RT. MAINLINE, RT. MAINLINE, RT. UNDISTRIBUTED	628.1504 SILT FENCE (LF) 120 50 40 120 80	628.1520 SILT FENCE MAINTENANCE (LF) 240 100 80 240 160
TOTALS =		410	820

MOBILIZATION EROSION CONTROL

	626.1905	020.1910
	MOBILIZATIONS	MOBILIZATIONS EMERGENCY
	EROSION CONTROL	EROSION CONTROL
PROJECT	(EACH)	(EACH)
7340-00-70	3	2
TOTAL	.S = 3	2

TEMPORARY DITCH CHECKS

STATION	LOCATION	628.7504 (LF)
12+49	MAINLINE, RT.	8
12+90	MAINLINE, LT.	8
-	UNDISTRIBUTED	8
	TOTALS =	24

MARKERS ROW

			633.5100
POINT #	STATION	LOCATION	(EACH)
100	12+00.00	MAINLINE, 29.36' LT.	1
101	12+30.00	MAINLINE, 55.00' LT.	1
102	13+16.00	MAINLINE, 53.00' LT.	1
103	13+50.00	MAINLINE, 31.05' LT.	1
104	13+50.00	MAINLINE, 46.95' RT.	1
105	13+30.00	MAINLINE, 47.18' RT.	1
106	13+17.00	MAINLINE, 60.00' RT.	1
107	12+25.00	MAINLINE, 48.37' RT.	1
108	12+00.00	MAINLINE, 48.65' RT.	1
		TOTALS =	9

SHEET

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PROJECT NO: 7340-00-70 | HWY: CTH X R:\PROJECTS\W11591 JACKSON CO CTH X BRIDGE\SHEETSPLAN\DETAILS\MISCELLANEOUS QUADUTRIES.DWG

COUNTY: JACKSON

MISCELLANEOUS QUANTITIES

PLOT BY: HANOLD, ROBERT

^{*} WETLAND AREAS AS NOTED ON GENERAL NOTES SHEET.

ALL BID ITEMS ARE CATEGORY 010 UNLESS OTHERWISE NOTED

			TRAFF	IC CONTROL		
	643	.0420	643	.0705	643	3.0900
	BARRICAE	DES TYPE III	WARNING L	IGHTS TYPE A	TRAFFIC CO	ONTROL SIGNS
	([DAY)	([DAY)])	DAY)
	NO.	NO.	NO.	NO.	NO.	NO.
	DAYS	DEVICES	DAYS	DEVICES	DAYS	DEVICES
LOCATION						
PROJECT	63	18	63	28	63	14
TOTALS =	1	134	1	764		882

TRAFFIC CONTROL

13+16	RIGHT	MAINLINE	W5-52L	BRIDGE HASH MARKS	12X36	1	3.00		
13+16	LEFT	MAINLINE	W5-52R	BRIDGE HASH MARKS	12X36	1	3.00		
	LEFT	CTH H INT.	R12-55	20 TON BRIDGEMILES AHEAD	48X18			1	1
					TOTALS =	4	12.00	8	8
				1					

PERMANENT SIGNING

SIGN DESCRIPTION

20 TON BRIDGE __MILES AHEAD

BRIDGE HASH MARKS

BRIDGE HASH MARKS

BRIDGE HASH MARKS

WEIGHT LIMIT 20 TONS

BRIDGE HASH MARKS

BRIDGE HASH MARKS

WEIGHT LIMIT 20 TONS

BRIDGE HASH MARKS

SIGN

CODE

R12-55

W5-52R

W5-52L

W5-52R

R12-1

W5-52L

W5-52L

R12-1

W5-52R

634.0612

POSTS WOOD

4X6 INCH X 12-

(EACH)

SIGN

SIZE

48X18

12X36

12X36

12X36

24X30

12X36

12X36

24X30

12X36

637.2230

SIGNS

TYPE II

REFLECTIVE

(SF)

3.00

3.00

638.2602

REMOVING

SIGNS

TYPE II

(EACH)

638.3000

REMOVING

SMALL SIGN

SUPPORTS

(EACH)

MARKING LINE EPOXY 4-INCH

LOCATION

CTH C INT.

MAINLINE

MAINLINE

MAINLINE

MAINLINE

MAINLINE

MAINLINE

MAINLINE

MAINLINE

APPROX.

12+35

12+35 12+37

12+38

12+43

13+05

13+11

13+11

STATION POSITION

RIGHT

RIGHT

LEFT

RIGHT

RIGHT

LEFT

RIGHT

LEFT

LEFT

STATION-STATION	LOCATION	DESCRIPTION	646.1020 (LF)
12+00-13+50	MAINLINE	DOUBLE YELLOW	300
12+00-13+50	MAINLINE, LT.	WHITE EDGELINE	150
12+00-13+50	MAINLINE, RT.	WHITE EDGELINE	150
		TOTALS =	600

CONSTRUCTION STAKING

		co	NSTRUCTION ST	ΓAKING
				650.9920
		650.4500	650.5000	SLOPES
		SUBGRADE	BASE	STAKES
STATION-STATION	LOCATION	(L.F.)	(L.F.)	(L.F.)
12+00 - 13+50	MAINLINE	93	93	93
	TOTAL =	93	93	93

SAWING ASPHALT

		690.0150
STATION	LOCATION	(L.F.)
12+00	MAINLINE	20
13+50	MAINLINE	20
	TOTAL -	40

Ε COUNTY: JACKSON MISCELLANEOUS QUANTITIES SHEET PROJECT NO: 7340-00-70 HWY: CTH X PLOT BY: JONAH DRAKE

CONVENTIONAL ABBREVIATIONS

ACCESS POINT/ DRIVEWAY CONNECTION	AP	PROPERTY LINE	PL (100')
ACCESS RIGHTS	AR	RECORDED AS REFERENCE LINE	(100') R/L
ACRES	AC.	RELEASE OF RIGHTS	ROR
AND OTHERS	ET.AL.	REMAINING	REM.
BARN	В.	RIGHT-OF-WAY	R/W
CENTERLINE	C/L	SECTION	SEC.
CERTIFIED SURVEY MAP	CSM	SHED	5.
CORNER	COR.	STATION	STA.
CONVEYANCE OF RIGHTS	CR	TEMPORARY LIMITED EASEMENT	TLE
DOCUMENT	DOC.	VOLUME	V.
EASEMENT	EASE.		
GARAGE	G.	CURVE DATA	
HIGHWAY EASEMENT	H.E.	LONG CHORD	LCH
HOUSE	н.	LONG CHORD BEARING	LCB
HOUSE TRAILER	H.T.	RADIUS	R
LAND CONTRACT	LC	DEGREE OF CURVE	D
MONUMENT	MON,	CENTRAL ANGLE OR DELTA	DELTA
PAGE	Р.	LENGTH OF CURVE	1
PERMANENT LIMITED EASEMENT	PLE	TANGENT	TAN

CONVENTIONAL SYMBOLS

FOUND SURVEY MONUMENT (WITH POINT NUMBER)	O 1040	PROPOSED R/W LINE EXISTING H.E. LINE	
R/W MONUMENT	o ● (SET)	PROPERTY LINE	
R/W STANDARD	△ ▲ (SET)	LOT & TIE LINES	
SIGN	ISIGN	SLOPE INTERCEPTS CORPORATE LIMITS	
SECTION CORNER MONUMENT	(h)	NO ACCESS (BY PREVIOUS ACQUISITION/CONTROL)	******
SECTION CORNER SYMBOL	(SA)	NO ACCESS (BY ACQUISTION)	
	C. S. C.	NO ACCESS (BY STATUTORY AUTHORITY)	**********
FEE (HATCH VARIES)	1///	NO ACCESS (NEW HIGHWAY)	
TEMPORARY LIMITED EASEMENT	bandara.	SECTION LINE QUARTER LINE	
PERMANENT LIMITED EASEMENT	Konstance	SIXTEENTH LINE	
R/W BOUNDARY POINT	(₹₩BZO)	EXISTING CENTERLINE	
KYW BOOMDAKT FOINT		PROPOSED REFERENCE LINE	
PARCEL NUMBER	8	PARALLEL OFFSET	'T"
UTILITY PARCEL NUMBER	@	PARALLEL OFFSE	TT/
SIGN NUMBER	<u>(21–1)</u>	ENCROACHMENT	ŒD TYPE
(OFF PREMISE)	\smile	HIGHWAY EASEMENT	
BUILDING			

CONVENTIONAL UTILITY SYMBOLS

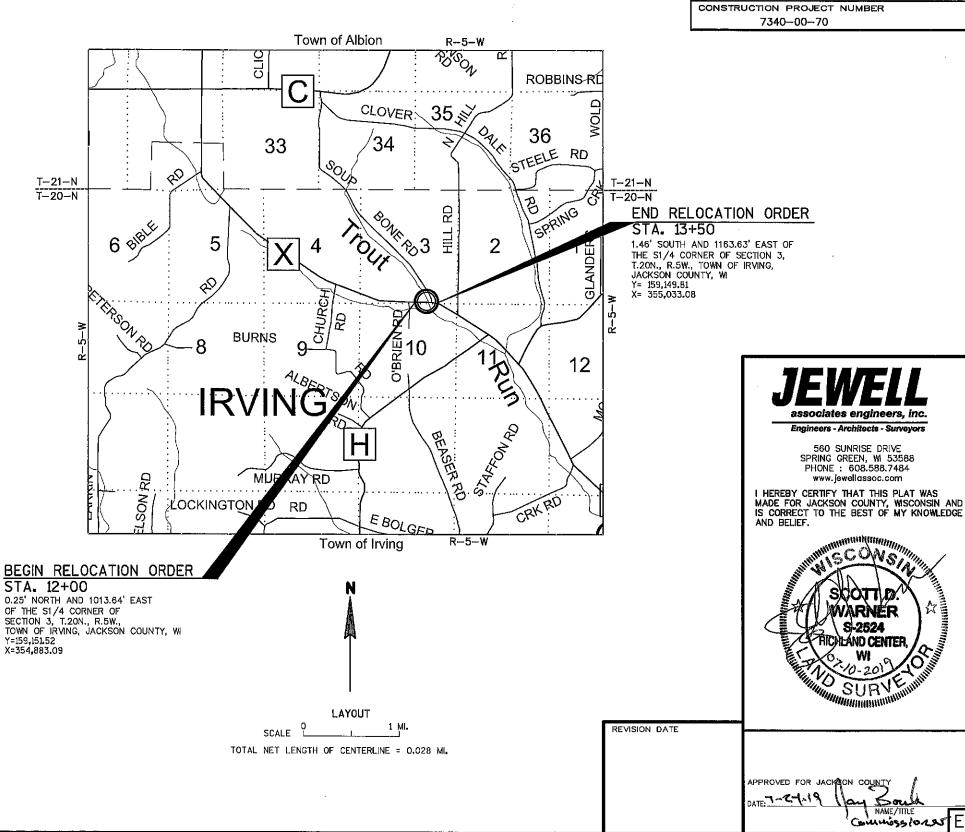
	**			
WATER	w	SANITARY SEWER		-SAN
GAS	—— g——	STORM SEWER		-ss
TELEPHONE			NON	
OVERHEAD	OH		COMPENSABLE	COMPENSABLE
Transmission lines		POWER POLE	₫	±
ELECTRIC	—— Е ——	TELEPHONE POLE	ø	ø
CABLE TELEVISION	TV	TELEPHONE PEDESTA	r X	×
FIBER OPTIC	F0	ELECTRIC TOWER	\triangleright]

NOTES

POSITIONS SHOWN ON THIS PLAT ARE WISCONSIN COORDINATE REFERENCE SYSTEM (WISCRS) COORDINATES, JACKSON COUNTY ORIGINAL PROJECTION, NAD 83 (2011) IN US SURVEY FEET. VALUES SHOWN ARE GRID COORDINATES, GRID BEARINGS, AND GRID DISTANCES. GRID DISTANCES MAY BE USED AS GROUND DISTANCES.

RIGHT-OF-WAY MONUMENTS ARE TYPE 2 MONUMENTS (TYPICALLY 3/4" X 24" REBAR) AND WILL BE PLACED PRIOR TO THE COMPLETION OF THE PROJECT.

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."



PLOT BY : Scott Worner

R/W PROJECT NUMBER

CTH X

7340-00-00 FEDERAL PROJECT NUMBER

PLAT OF RIGHT-OF-WAY REQUIRED FOR

CTH H - CTH P

TROUT RUN CREEK BRIDGE B-27-0165

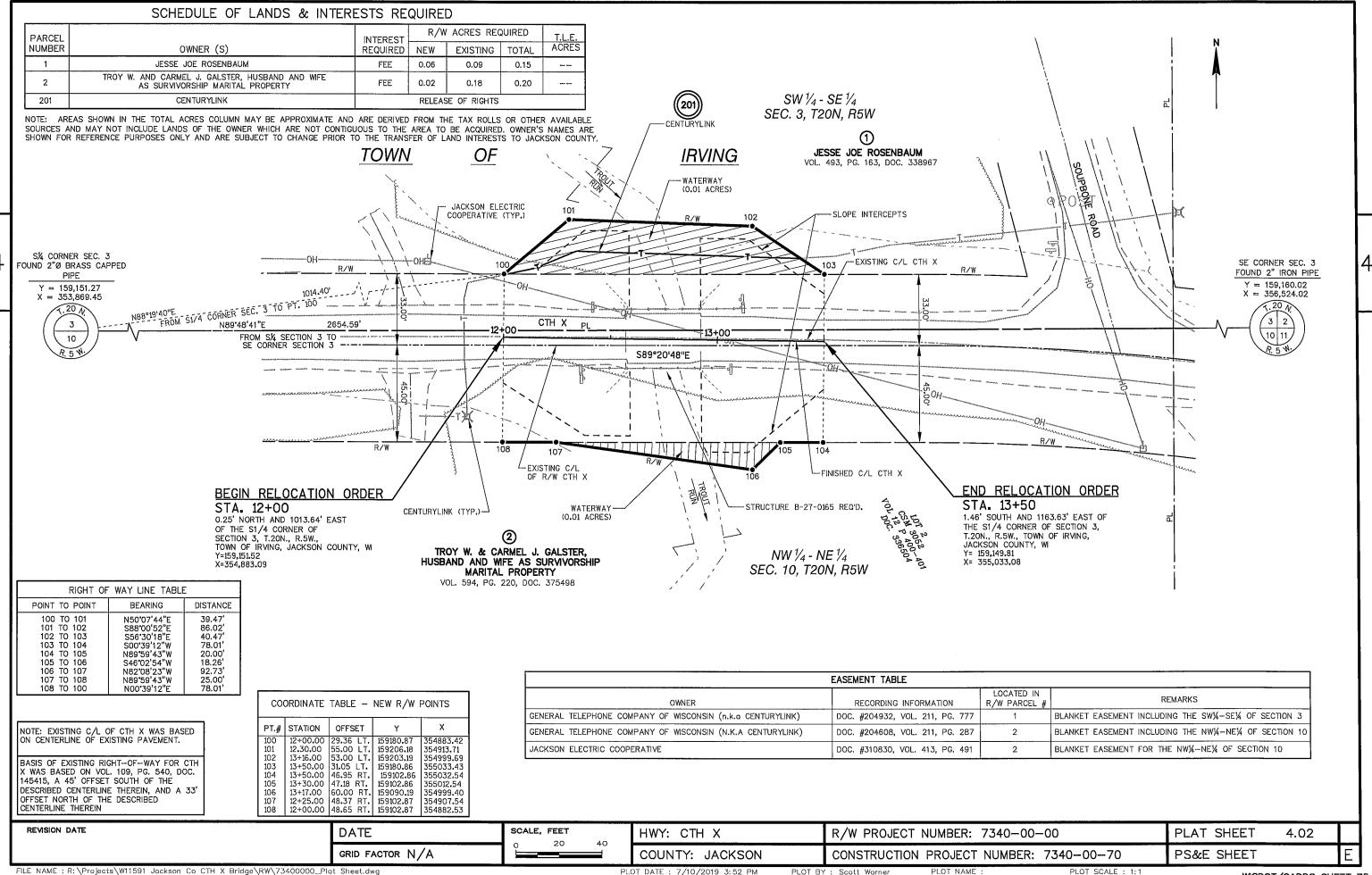
SHEET TOTAL

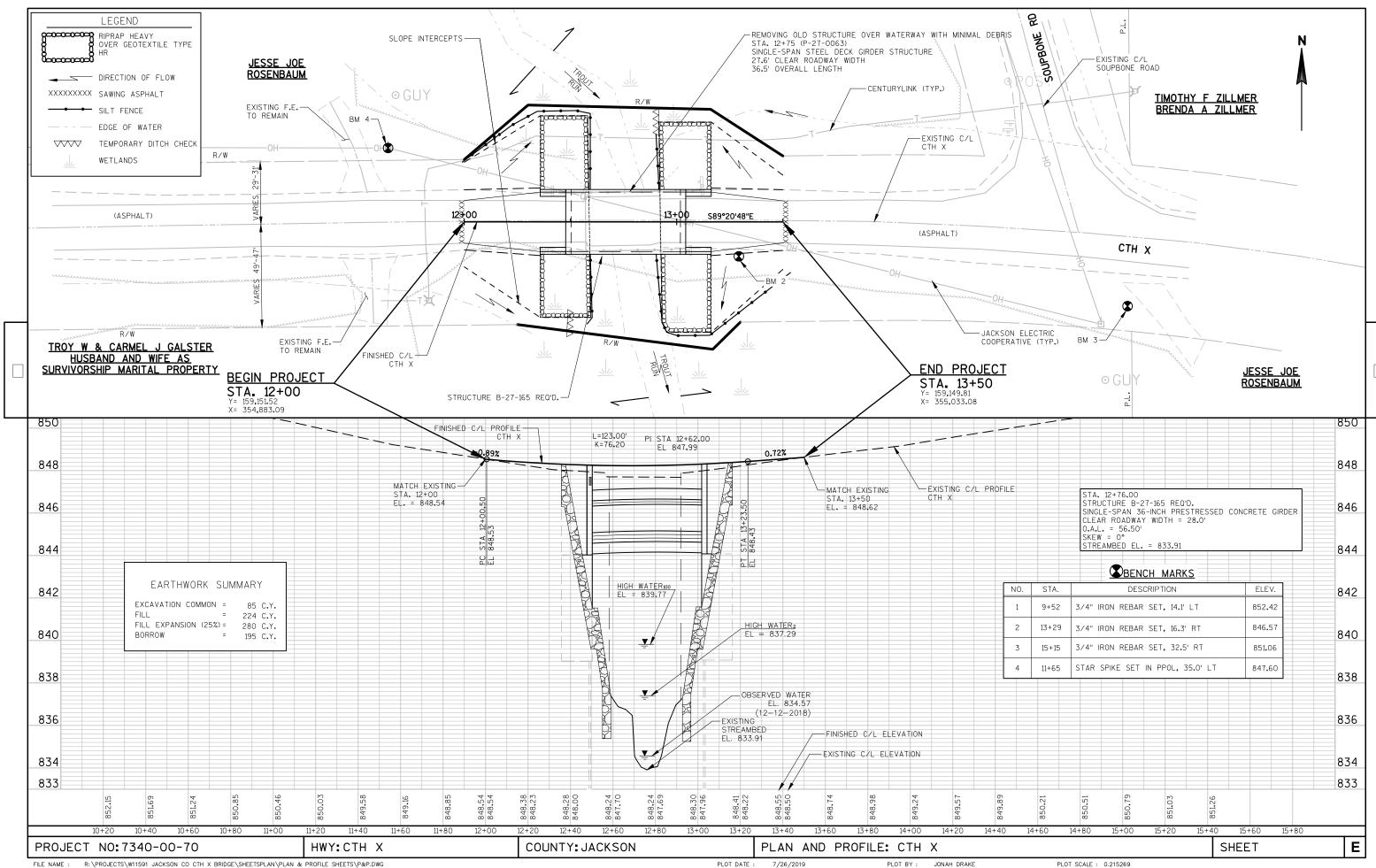
NUMBER SHEETS

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4.01

JACKSON COUNTY





Standard Detail Drawing List

)8E08-03	TYPICAL INSTALLATIONS OF EROSION BALES / TEMPORARY DITCH CHECKS
)8E09-06	SILT FENCE
L2A03-10	NAME PLATE (STRUCTURES)
L5A01-13A	MARKER POST FOR RIGHT-OF-WAY
L5C02-07A	BARRICADES AND SIGNS FOR MAINLINE CLOSURES
L5C02-07в	BARRICADES AND SIGNS FOR VARIOUS CLOSURES
L5C06-09	SIGNING & MARKING FOR TWO LANE BRIDGES
L5C08-19A	LONGITUDINAL MARKING (MAINLINE)
L5D38-02A	TEMPORARY TRAFFIC CONTROL SIGN MOUNTING
L5D38-02B	ATTACHMENT OF SIGNS TO POSTS

GENERAL NOTES

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

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



WHEN ALTERING THE DIRECTION OF FLOW



PLAN VIEW



FRONT ELEVATION

WHEN EXISTING GROUND SLOPES AWAY FROM FILL SLOPE

EROSION BALES FOR SHEET FLOW

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

STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION

APPROVED

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

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TYPICAL APPLICATION OF SILT FENCE

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PLAN VIEW SILT FENCE AT MEDIAN SURFACE DRAINS



GENERAL NOTES

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

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



TRENCH DETAIL



SILT FENCE TIE BACK
(WHEN REQUIRED BY THE ENGINEER)

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED
4-29-05 /S/ Beth Cannestra

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

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D.D. 8 E 9





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

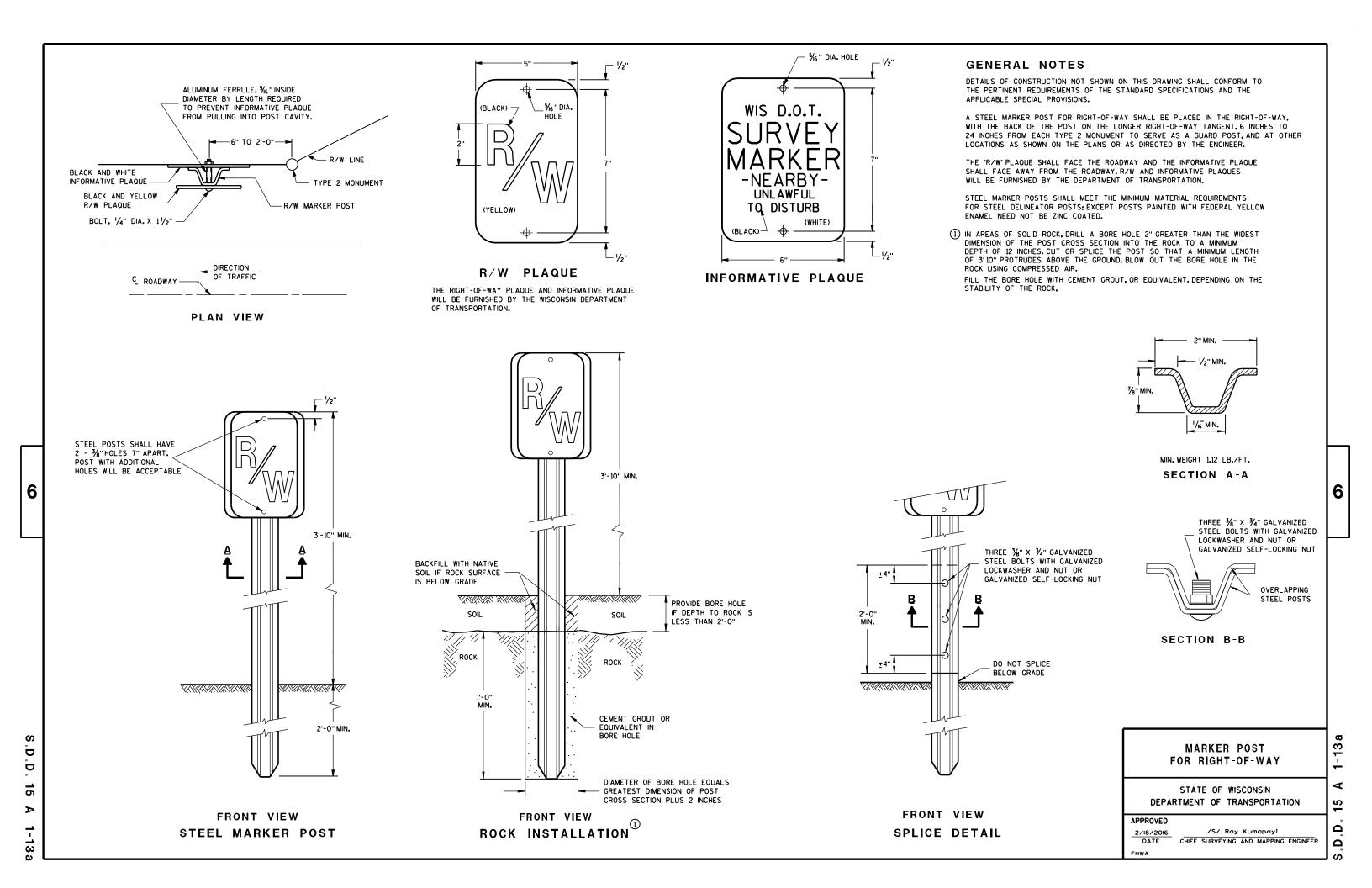
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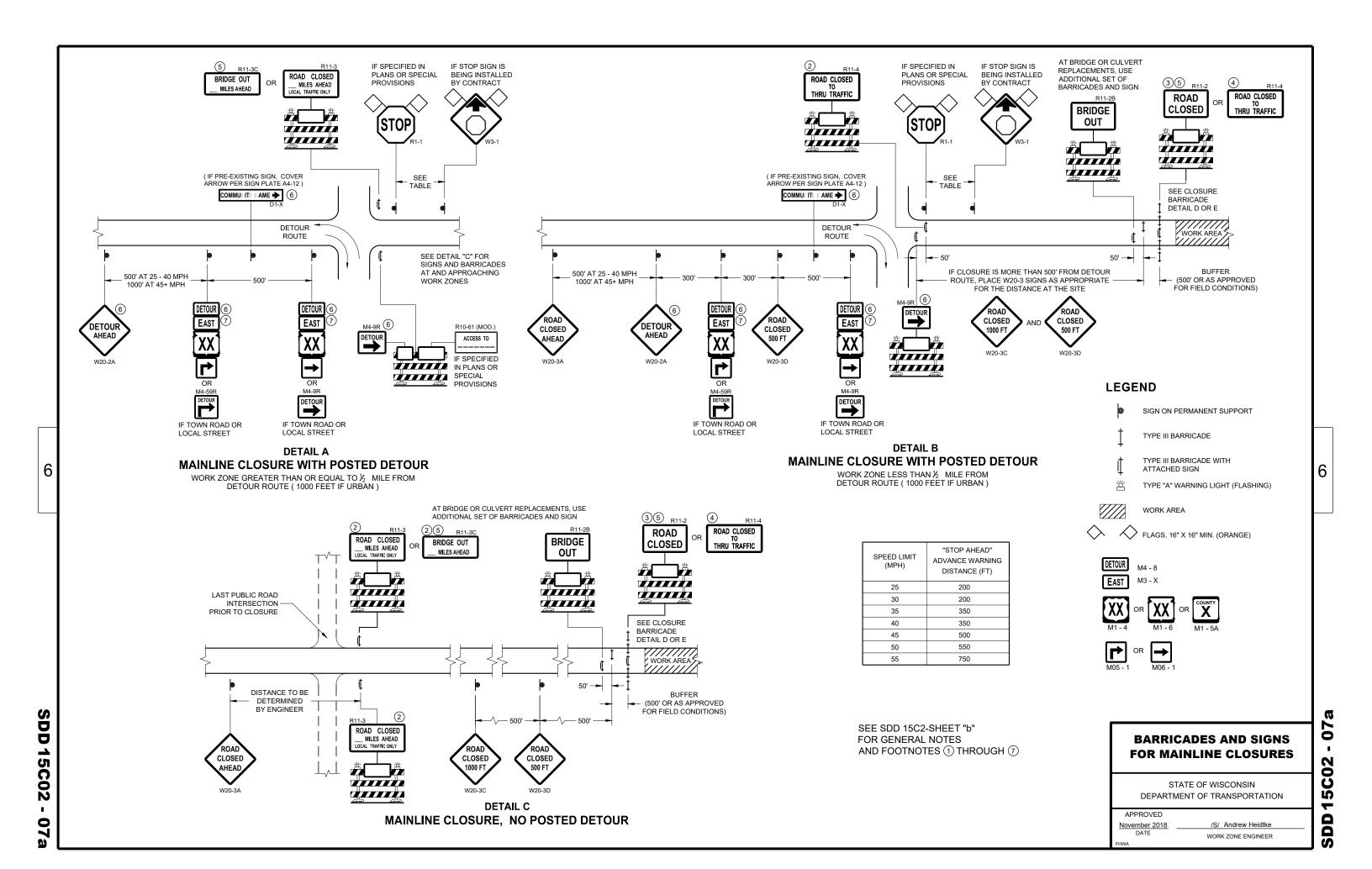
3/26/IO /S/ SCOT BECKET

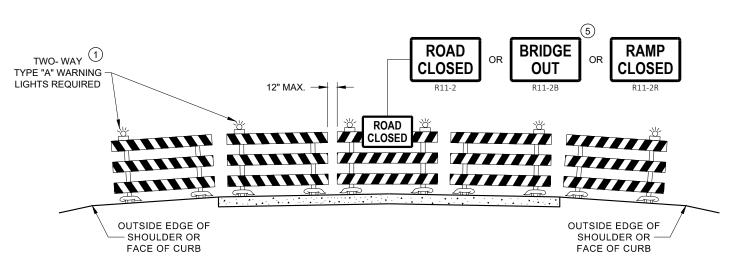
CHIEF STRUCTURAL DEVELOPMENT ENGINEER

D.D. 12 A

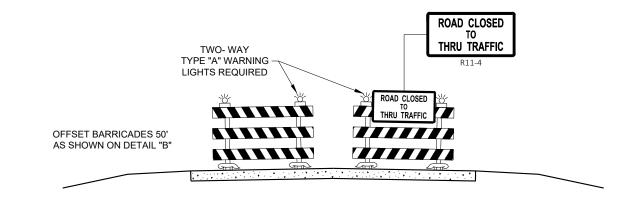
3-10







DETAIL D ROAD CLOSURE BARRICADE DETAIL **APPROACH VIEW**



DETAIL E LANE CLOSURE BARRICADE DETAIL APPROACH VIEW

SEE SDD 15C2 - SHEET "a" FOR LEGEND

GENERAL NOTES

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

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

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

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

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

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

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

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

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

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

R11 - 2 SHALL BE 48" X 30"

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

M4 - 9 SHALL BE 30" X 24"

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

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

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

MO5 - 1 AND MO6 - 1 SHALL BE 21" X 21" (30" X 30" IF NEEDED TO MATCH EXISTING SIGNS)

D1 - X SHALL BE AS SHOWN ON SPECIFIC PROJECT SIGNING DETAIL SHEETS.

R1 - 1 SHALL BE 36" X 36"

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

BARRICADES AND SIGNS FOR **VARIOUS CLOSURES**

STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION

APPROVED

November 2018 DATE

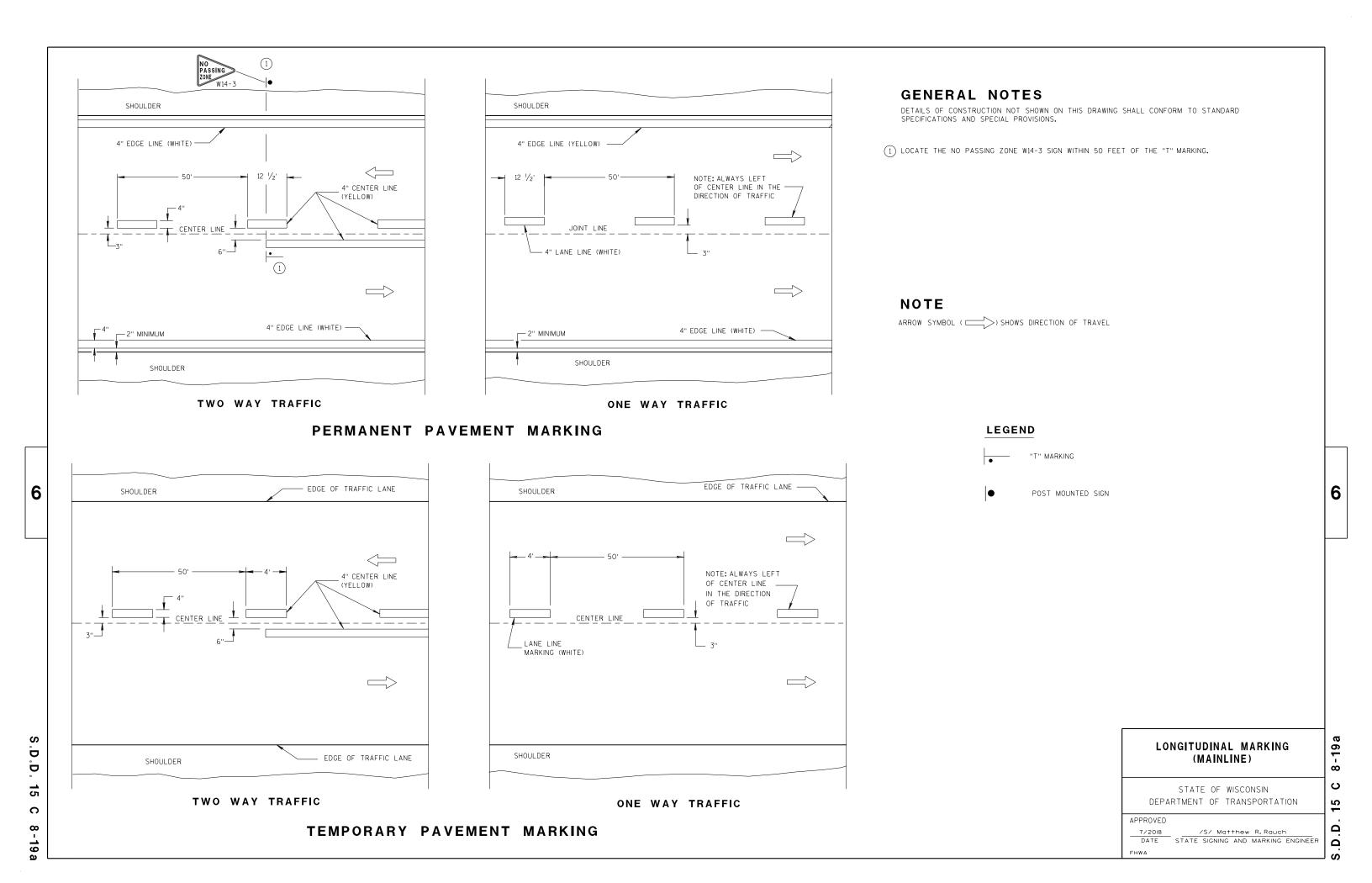
WORK ZONE ENGINEER

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TUBULAR STEEL POSTS

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

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

URBAN AREA

POST MOUNTING DETAIL FOR TEMPORARY TRAFFIC CONTROL FIXED MESSAGE SIGNS

WOOD POST **EMBEDMENT DEPTH**

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

4" X 6" WOOD POST

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

SEE NOTE (3)

RURAL AREA

TEMPORARY TRAFFIC CONTROL SIGN MOUNTING

STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION

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- 11/2" DIAMETER HOLES

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NUTS, BOLTS AND LAGS USED FOR MOUNTING SIGNS SHALL HAVE HEXAGONAL HEADS AND SHALL BE EITHER:

- A. HOT DIP GALVANIZED IN ACCORDANCE WITH ASTM DESIGNATION: A 153, CLASS D, OR SC 3
- B. ELECTRO-GALVANIZED IN ACCORDANCE WITH ASTM DESIGNATION: B 633, TYPE III, SC 3

THREADS ON BOLTS AND NUTS SHALL BE MANUFACTURED WITH SUFFICIENT ALLOWANCE FOR THE CADMIUM PLATE OR GALVANIZED COATING TO PERMIT THE NUTS TO RUN FREELY ON THE BOLTS.

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

LAG SCREWS - 3/8" X 3"

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

SQUARE STEEL POSTS (2" x 2")

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

RIVETS - 1/32 " (6605-9-6) BULB-TITE, TRI-FOLD, ALUMINUM BODY/MANDREL O.D. FLANGE .720-.765 INCH, GRIP RANGE .042-.375 INCH

WASHERS (ALL POSTS) -

1-1/4" O.D. X 3/8" I.D. X 1/16" STEEL

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

* TWO DIFFERENT FASTENING SYSTEMS ARE SHOWN FOR ILLUSTRATION PURPOSES. ON ANY INDIVIDUAL SIGN, EITHER ONE OR THE OTHER SYSTEM SHALL BE USED. ACTUAL NUMBER OF FASTENERS PER SIGN VARIES WITH THE SIGN AREA. FOR A SINGLE POST INSTALLATION, ALL SIGNS GREATER THAN 9 SQ. FT. REQUIRE THE USE OF 3 FASTENERS.

> ATTACHMENT OF SIGNS TO POSTS

STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION

APPROVED

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

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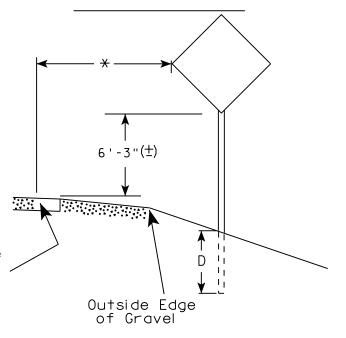
urban area

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

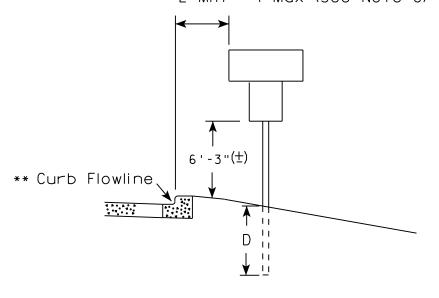
** Curb Flowline

D | White Edgeline Location

RURAL AREA (See Note 2)



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



White Edgeline
Location

Outside Edge
of Gravel

PLOT DATE: 21-AUG-2017 16:04

** 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.

POST EMBEDMENT DEPTH

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

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

GENERAL NOTES

- 1. Signs wider than 4 feet or 20 sq.ft or larger, shall be mounted on multiple posts. Refer to plate A4-4.
- 2. If signs are mounted on barrier wall, see A4-10 sign plate.
- 3. For expressways and freeways, mounting height is 7'- 3" (\pm) or 6'-3" (\pm) depending upon existence of a sub-sign.
- 4. J-Assemblies are considered to be one sign for mounting height.
- 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 (\pm) 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" (±). 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" (±).

TYPICAL INSTALLATION
OF PERMANENT TYPE II
SIGNS ON SINGLE POSTS

WISCONSIN DEPT OF TRANSPORTATION

APPROVED

Matther R Rauch

For State Traffic Engineer

DATE 8/21/17 PLATE NO. A4-3.21

SHEET NO:

PROJECT NO:

HWY:

COUNTY:

NTY:

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

PLOT SCALE : 100.601251:1.000000



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

ATTACHMENT OF SIGNS
TO POSTS

WISCONSIN DEPT OF TRANSPORTATION

APPROVED

Nather R Raw
For State Traffic Engineer

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

PLATE NO. <u>44-8.8</u>

PROJECT NO:

FILE NAME : C:\CAFfiles\Projects\tr stdplote\A48 DCN

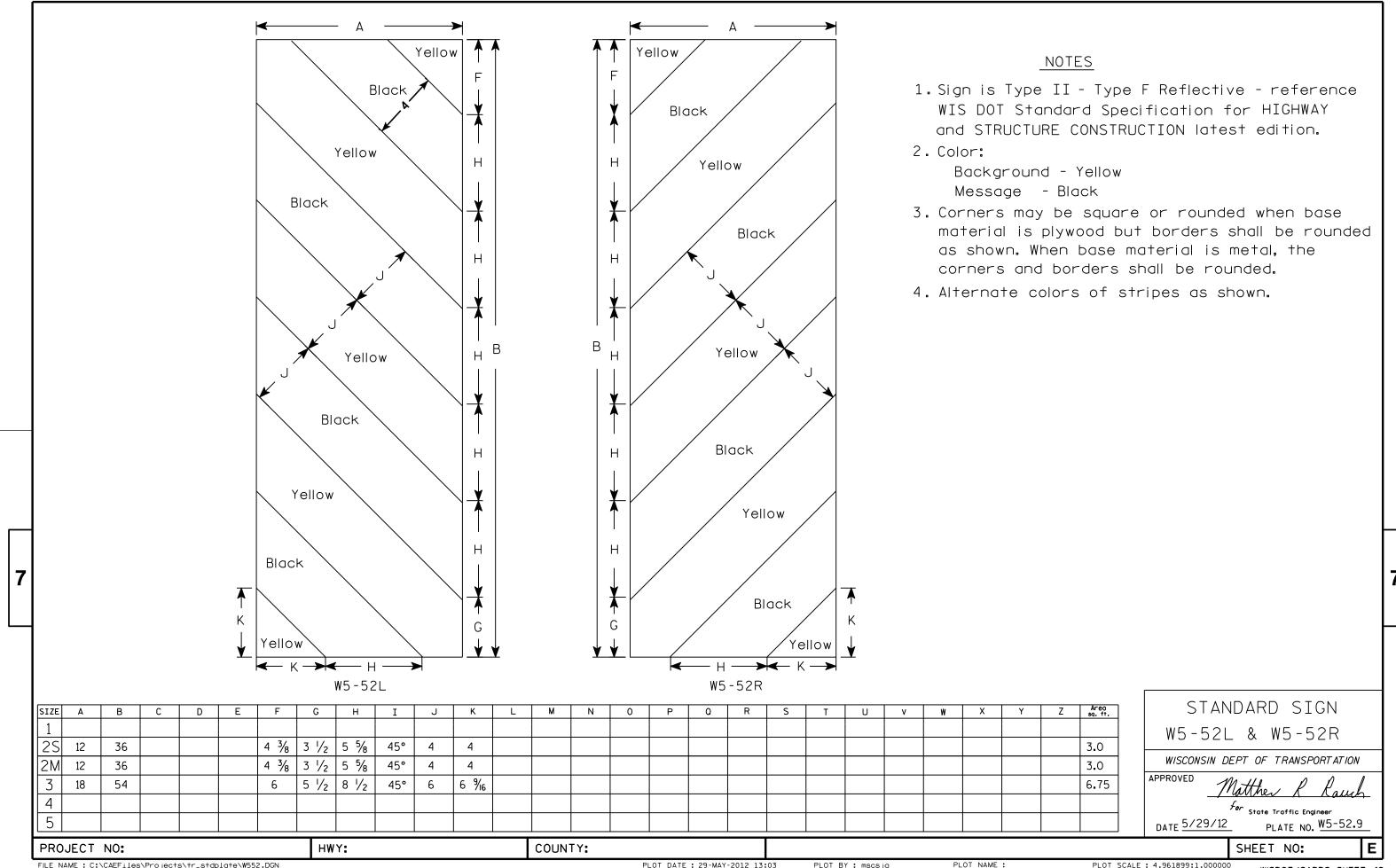
PLOT DATE . 11-416-2016 11:35

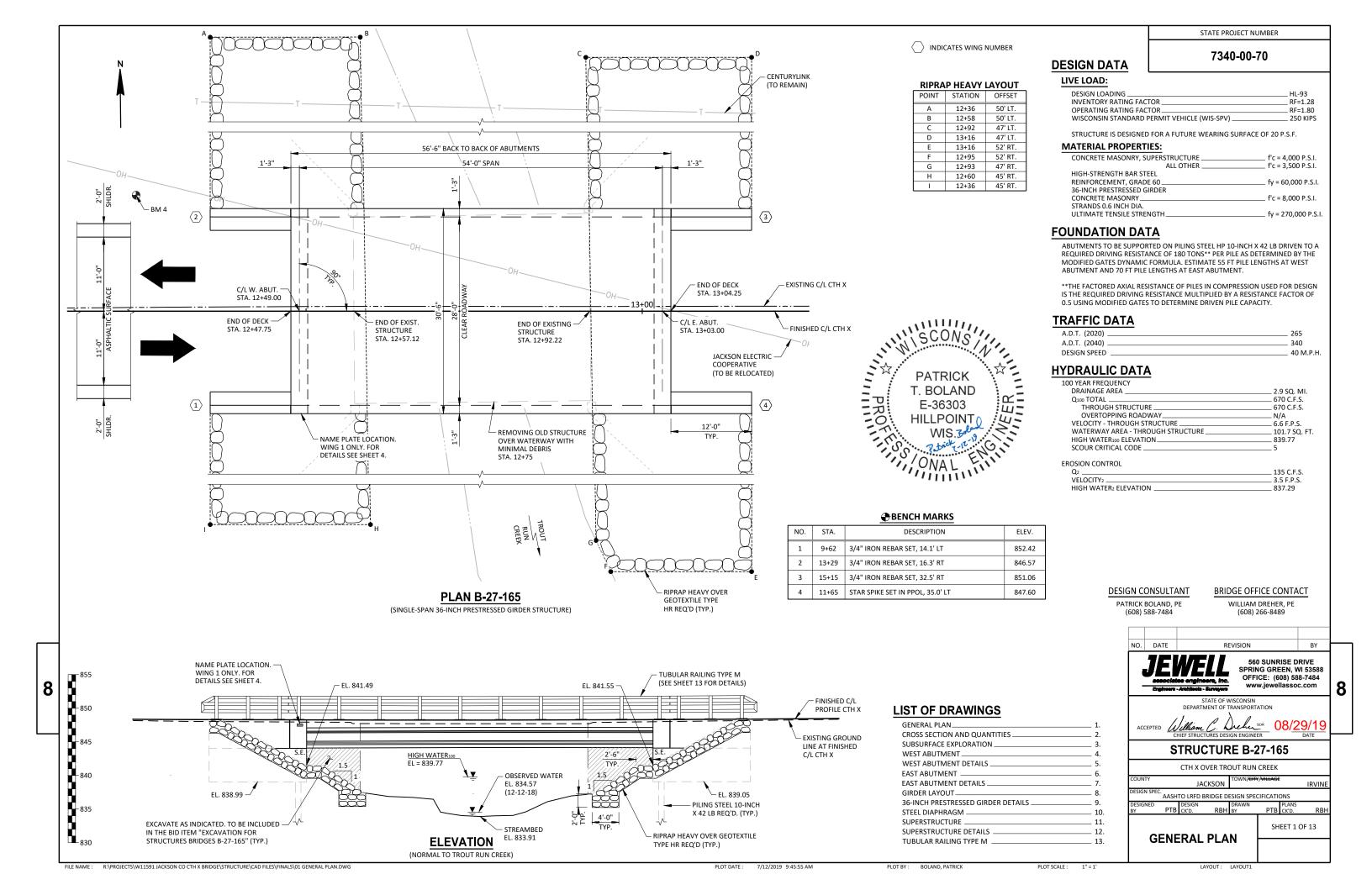
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SHEET NO:

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GENERAL NOTES

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

ELEVATIONS SHOWN ON THE PLAN ARE REFERENCED TO THE NORTH AMERICA

JOINT FILLER SHALL CONFORM TO A.A.S.H.T.O. DESIGNATION MI53, TYPE I, II OR III OR A.A.S.H.T.O. DESIGNATION M213.

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

AT THE BACK FACE OF ABUTMENTS, ALL VOLUME WHICH CANNOT BE PLACED BEFORE ABUTMENT CONSTRUCTION AND IS NOT OCCUPIED BY THE NEW STRUCTURE SHALL BE BACKFILLED WITH BACKFILL STRUCTURE TYPE A. SEE THIS SHEET FOR DETAIL.

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

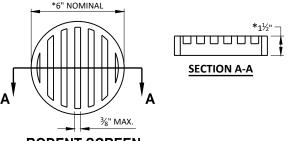
THE EXISTING STRUCTURE IS A SINGLE-SPAN STEEL DECK GIRDER STRUCTURE WITH A CONCRETE DECK SUPPORTED ON CONCRETE ABUTMENTS. THE STRUCTURE HAS A 28 0' OVERALL WIDTH AND IS 36 5' LONG AND SHALL BE REMOVED.

ALL STATIONS AND ELEVATIONS SHOWN ARE IN FEET.

THE EXISTING GROUNDLINE SHALL BE THE UPPER LIMITS OF EXCAVATION FOR

THE FIRST DIGIT OF A BAR MARK SIGNIFIES THE BAR SIZE.

HAUNCH CONCRETE QUANTITY IS BASED ON THE AVERAGE HAUNCH SHOWN ON THE PRESTRESSED GIRDER DETAILS SHEET, WHICH IS THE MAXIMUM HAUNCH QUANTITY FOR WHICH THE CONTRACTOR WILL BE PAID.



RODENT SCREEN

NOTES

RAILING TUBULAR TYPE M.

(TYP.) FOR DETAIL SEE

SHEET 13 FOR DETAILS

3/4" V-GROOVE REQ'D.

AT BOTH EDGES. EXTEND TO 6" FROM

F.F. OF ABUT. DIAPH.

10%| ATE

* DIMENSIONS ARE APPROXIMATE. THE GRATE IS SIZED TO FIT INTO A PIPE COUPLING.

ORIENT SHIELD SO SLOTS ARE VERTICAL.

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

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

PROPOSED CROSS-SECTION THROUGH ROADWAY

RIPRAP HEAVY OVER GEOTEXTILE

3 SPA. @ 8'-4" = 25'-0" (36-INCH PRESTRESSED GIRDERS)

30'-6" OUT-TO-OUT OF DECK

28'-0" CLEAR ROADWAY

C/L CTH X ──►

4'-2'

14'-0"

IN SPAN

POINT REFERRED TO ON

PROFILE GRADE LINE

FACE OF RAIL

14'-0"

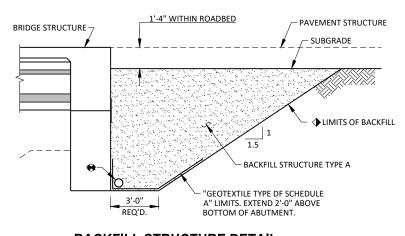
AT ABUTMENT

FACE OF RAIL

2'-9"

LOOKING EAST

TYPE HR REQ'D (TYP.)



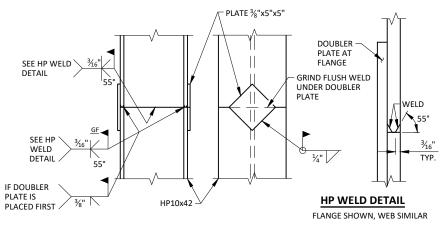
♦ BACKFILL STRUCTURE TYPE A PAY LIMITS. BACKFILL BEYOND PAY LIMITS SHALL BE INCIDENTAL TO THE BID ITEM "EXCAVATION FOR STRUCTURES B-27-165". LIMITS OF EXCAVATION SHALL BE DETERMINED BY THE CONTRACTOR

2'-9"

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

TOE OF EXCAVATION AND "GEOTEXTILE - TYPE DF SCHEDULE A" LIMITS PIPE UNDERDRAIN WRAPPED 6-INCH. SLOPE 0.5% MIN. TO SUITABLE DRAINAGE. PROPOSED ABUTMENT TO SUITABLE DRAINAGE. ATTACH RODENT SCREEN AT ENDS OF PIPE UNDERDRAIN. SEE DETAIL ON THIS SHEET.

PIPE UNDERDRAIN DETAIL



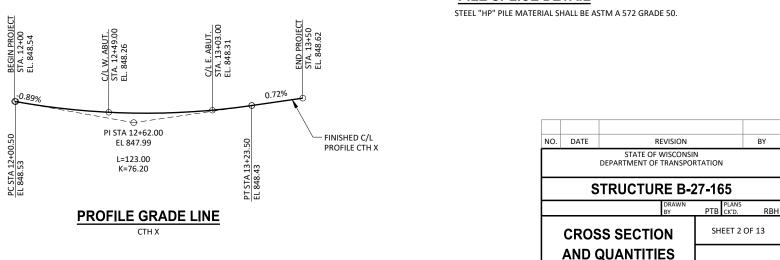
PILE SPLICE DETAIL

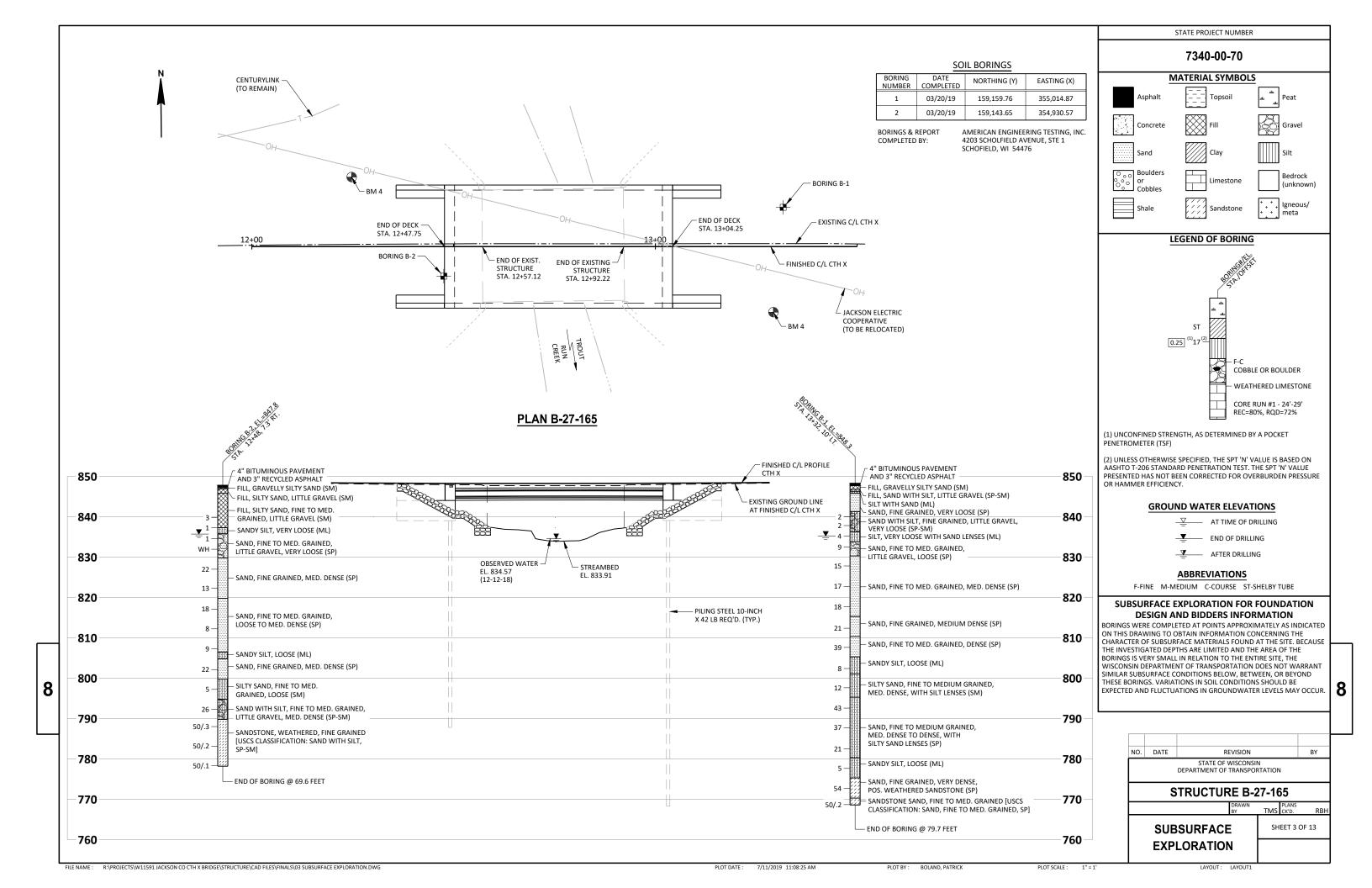
BACKFILL STRUCTURE DETAIL

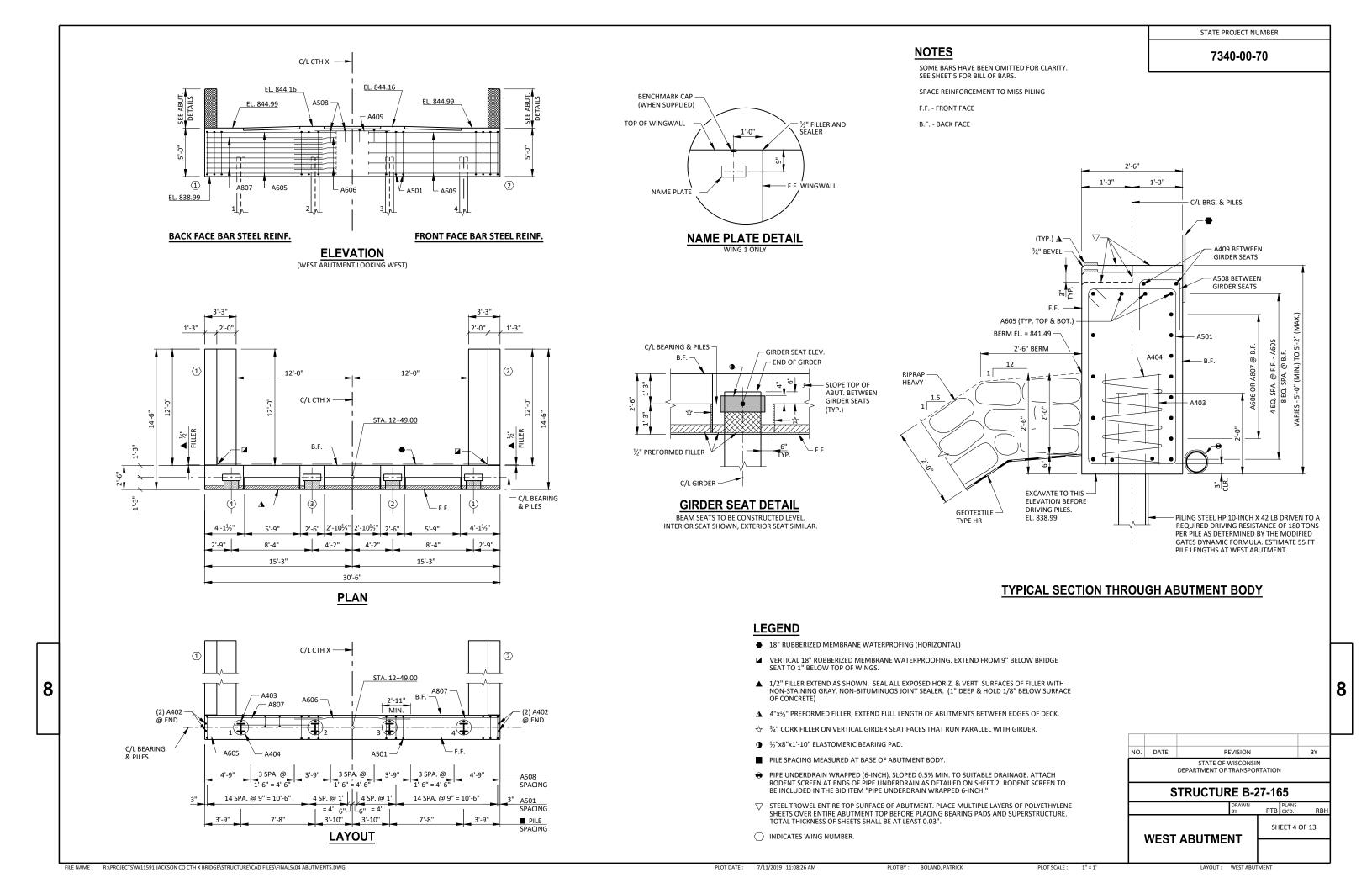
ABUTMENT BODY SHOWN - WING WALLS SIMILAR (TYPICAL AT BOTH ABUTMENTS)

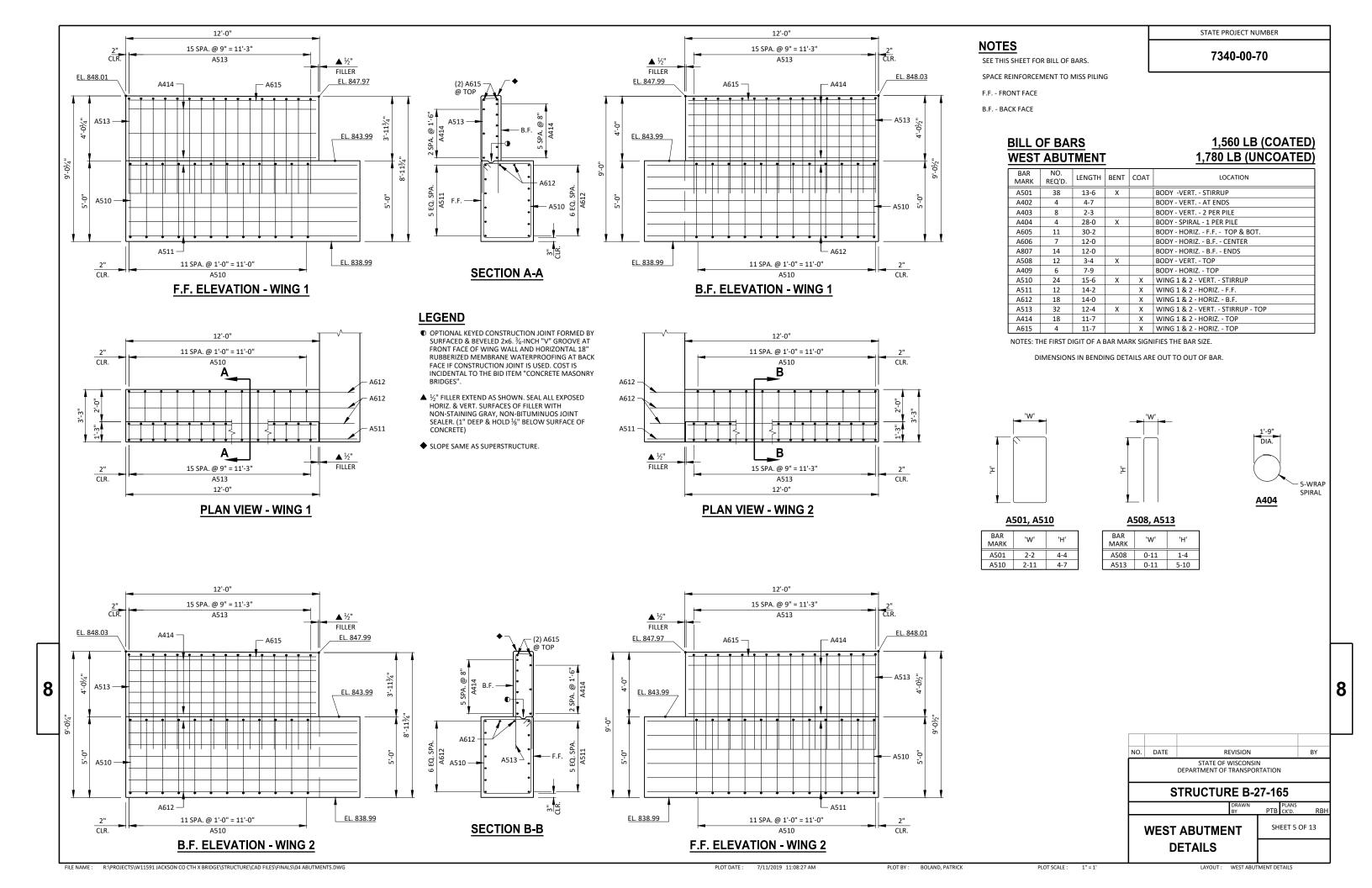
TOTAL ESTIMATED QUANTITIES

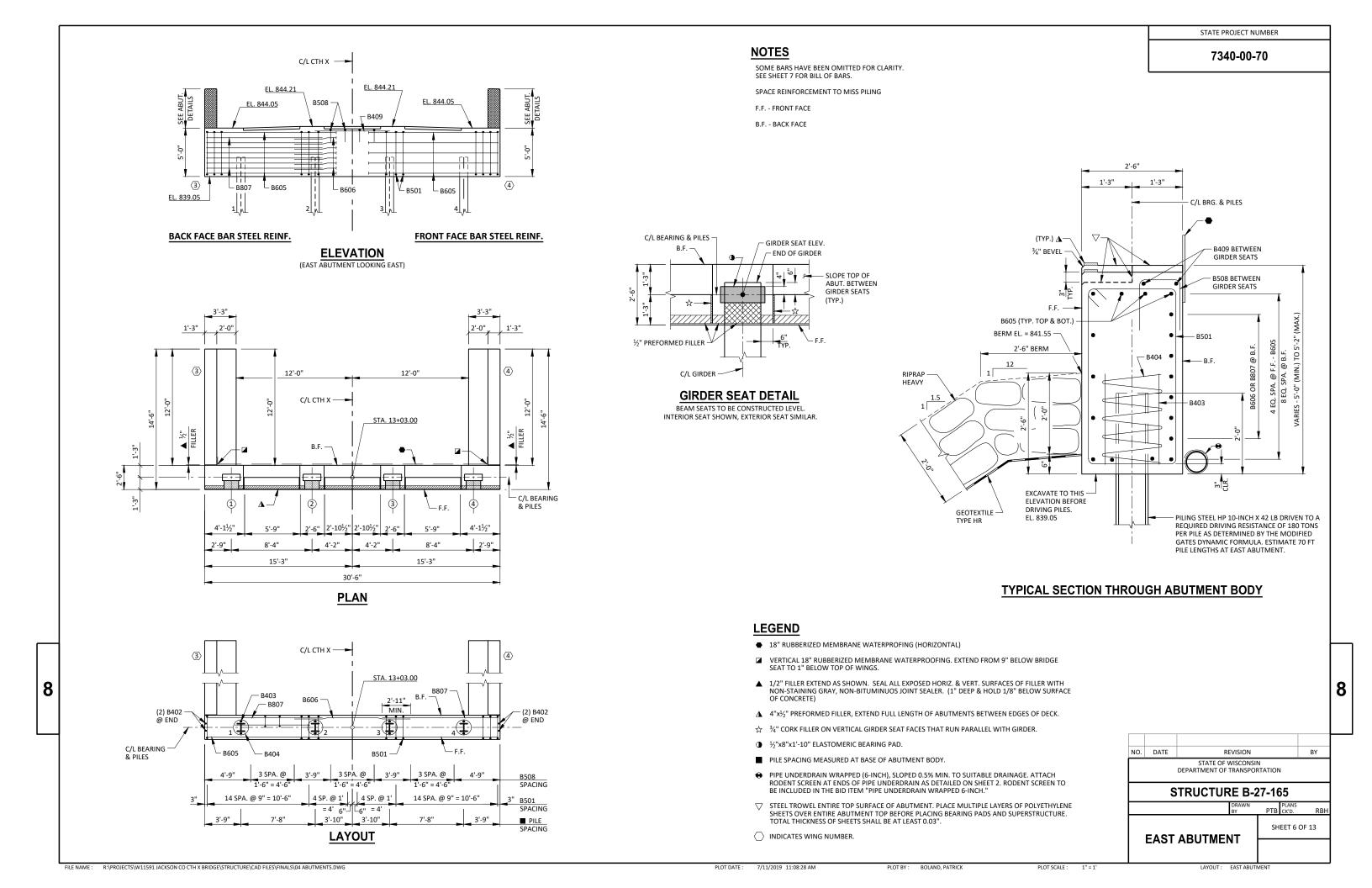
$\dashv \mid$	ITEM NUMBER	ITEM DESCRIPTION	UNIT	W. ABUT.	SUPER.	E. ABUT.	TOTALS
П	203.0600.S	REMOVING OLD STRUCTURE OVER WATERWAY WITH MIN. DEBRIS STA. 12+75	LS				1
	206.1000	EXCAVATION FOR STRUCTURES BRIDGES B-27-165	LS				1
П	210.1500	BACKFILL STRUCTURE TYPE A	TON	160		160	320
П	502.0100	CONCRETE MASONRY BRIDGES	CY	33	66	33	132
П	502.3200	PROTECTIVE SURFACE TREATMENT	SY		213		213
П	503.0136	PRESTRESSED GIRDER TYPE I 36-INCH	LF		220		220
П	505.0400	BAR STEEL REINFORCEMENT HS STRUCTURES	LB	1,780		1,780	3,560
П	505.0600	BAR STEEL REINFORCEMENT HS COATED STRUCTURES	LB	1,560	13,170	1,560	16,290
4[506.2605	BEARING PADS ELASTOMERIC NON-LAMINATED	EACH		8		8
П	506.4000	STEEL DIAPHRAGMS B-27-165	EACH		3		3
П	513.4061	RAILING TUBULAR TYPE M	LF		166		166
П	516.0500	RUBBERIZED MEMBRANE WATERPROOFING	SY	6		6	12
П	550.1100	PILING STEEL 10-INCH X 42 LB	LF	220		280	500
Ш	606.0300	RIPRAP HEAVY	CY	170		185	355
Ш	612.0406	PIPE UNDERDRAIN WRAPPED 6-INCH	LF	100		100	200
Ш	645.0111	GEOTEXTILE TYPE DF SCHEDULE A	SY	45		45	90
Ш	645.0120	GEOTEXTILE TYPE HR	SY	280		300	580
Ш							
Ш		NON-BID ITEMS					
		FILLER	SIZE				1/2" & 3/4"
П		NAME PLATE					

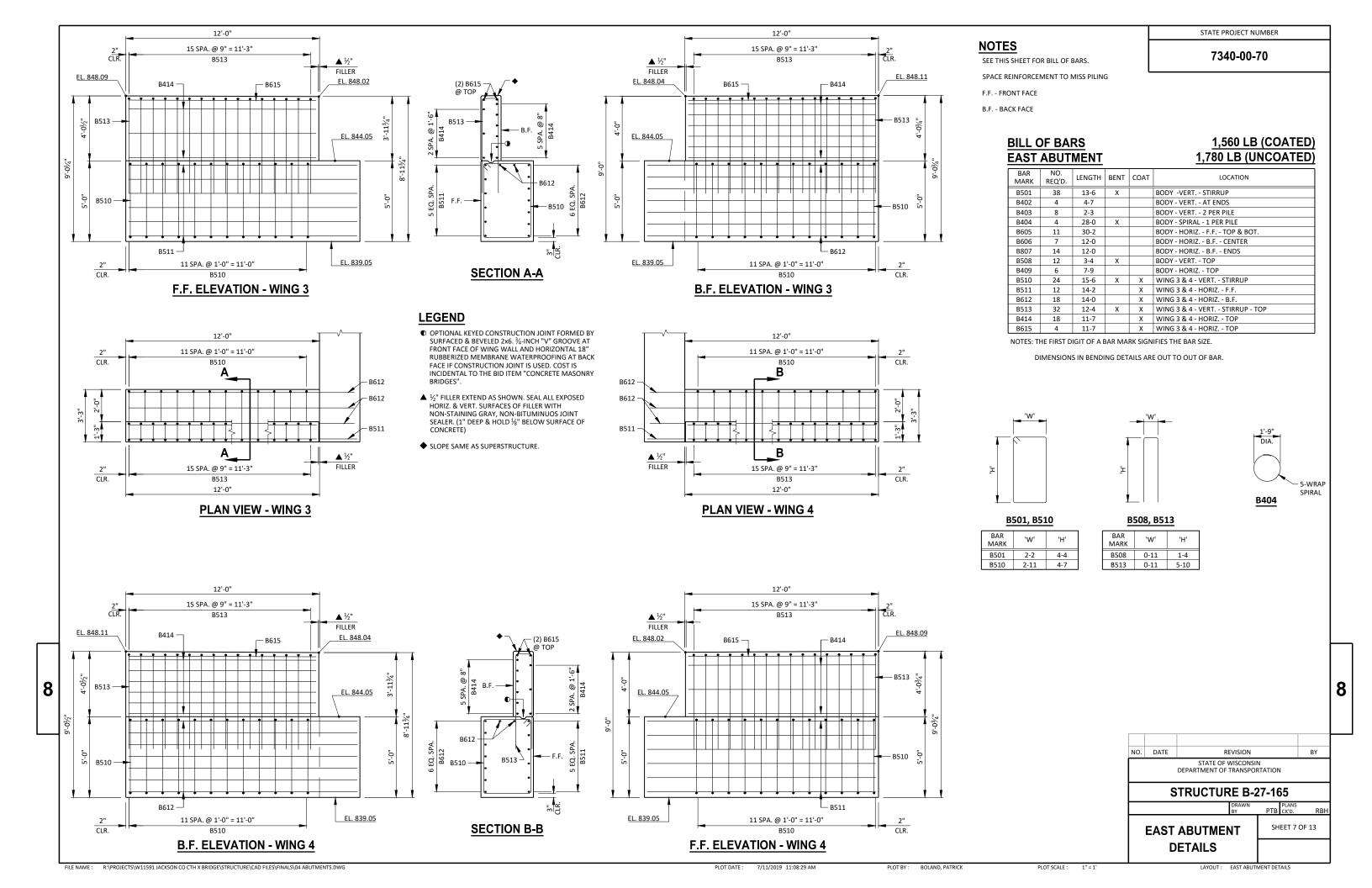


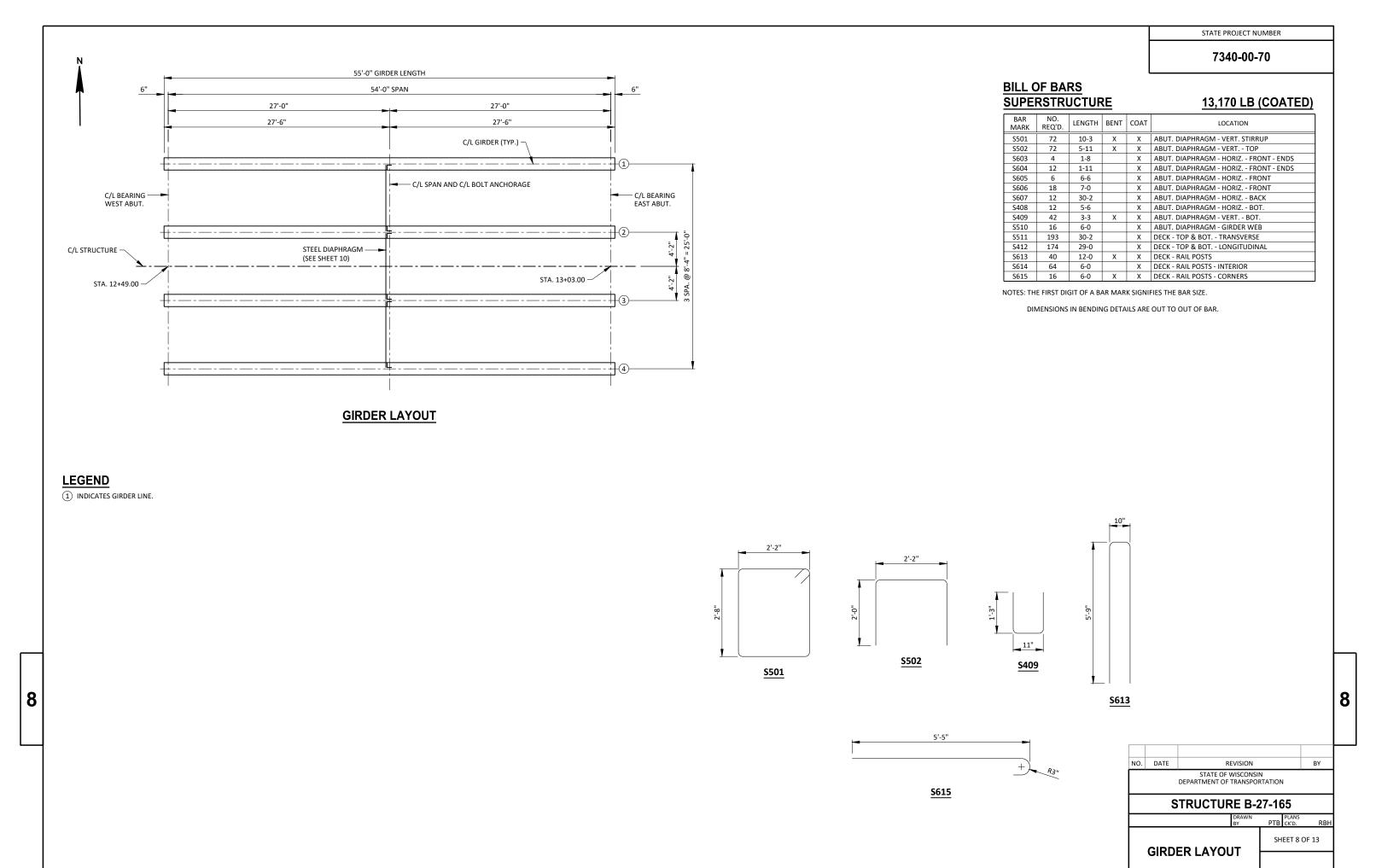


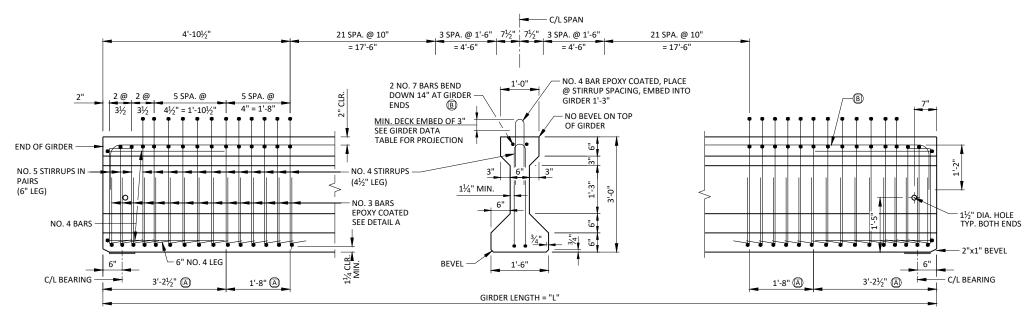












36-INCH GIRDER - SIDE VIEW & TYP. SECTION IN SPAN

(A) DETAIL TYP. AT EACH END

GIRDER NOTES

TOP OF GIRDER TO BE ROUGH FLOATED AND BROOMED TRANSVERSELY, EXCEPT THE OUTSIDE 2" OF GIRDER, WHICH SHALL RECEIVE A SMOOTH FINISH. AN APPROVED CONCRETE SEALER SHALL BE APPLIED TO ALL SMOOTH SURFACES INCLUDING THE OUTSIDE 2" OF THE TOP FLANGE.

THE GIRDERS SHALL BE PROVIDED WITH A SUITABLE LIFTING DEVICE FOR HANDLING AND ERECTING THE GIRDERS. SEE SECTION 503.3.3 OF STANDARD SPECIFICATION FOR GUIDANCE.

ALL GIRDERS SHALL BE CAST FULL LENGTH AS SHOWN.

PRESTRESSING STRANDS SHALL BE 0.6-INCH DIAMETER 7-WIRE LOW-RELAXATION STRANDS WITH AN ULTIMATE STRENGTH OF 270 KSI.

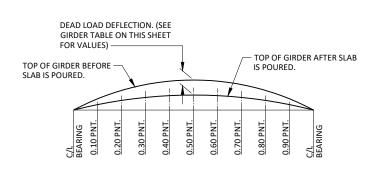
STRANDS SHALL BE FLUSH WITH THE ENDS OF THE GIRDER. END OF STRANDS SHALL BE COATED WITH NON-BITUMINOUS JOINT SEALER.

SPACING SHOWN FOR NO. 4 STIRRUPS IS FOR GRADE 60 REINFORCEMENT.

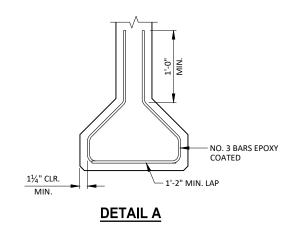
AN EQUIVALENT OF WELDED WIRE FABRIC (WWF) ASTM A1064 MAY BE SUBSTITUTED FOR THE STIRRUP REINFORCEMENT SHOWN, UPON APPROVAL OF THE STRUCTURES MAINTENANCE SECTION. IF USED, WWF SUBSTITUTION DETAILS SHALL BE SUBMITTED ELECTRONICALLY TO THE WISDOT FABRICATION LIBRARY AND ACCEPTED PRIOR TO SHOP DRAWING SUBMITTAL.

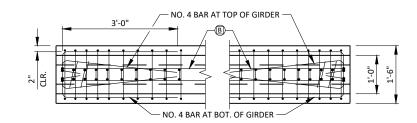
FOR DIAPHRAGM INSERT & CONNECTION DETAILS SEE SHEET 10.

DATA SHOWN IN DEFLECTION DATA IS THEORETICAL AND MAY VARY WITH CONCRETE STRENGTH, VARIABLE PRESTRESS CONDITIONS AND PRESTRESS LOSES.

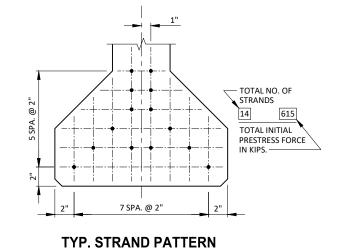


DEAD LOAD DEFLECTION DIAGRAM





TOP VIEW OF GIRDER ENDS



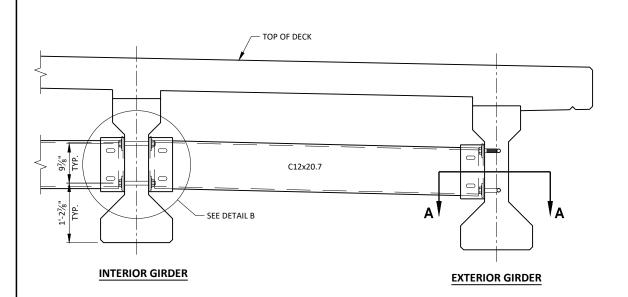
GIRDER DATA						STIRRUP			·	NO. 7 "B" BARS MAY BE SPLICED, USE 54" MIN. LAP.														
GIRDER		DEAD LOAD DEFLECTION					CONC. STRENGTH		JECTION		IA. OF AND (IN		DRAPI	ED PAT	TTERN			UNDRAP PATTER						
	QUANT.						1ST MID. END			1 2 2 1	TOTAL NO.	f'ci		(INC	HES)		TOTAL NO.	f'ci	GIRDER					
"L"		0.10	0.20	0.30	0.40	0.50	0.60	0.70	0.80	0.90	f'c Ksi	1/3	1/3	1/3	IS	OF STRANDS	Ksi *	"A"	"B" MIN.	"B" MAX.	"C"	OF STRANDS	Ksi *	NO.
55'-0"	4	0.2"	0.3"	0.5"	0.5"	0.6"	0.5"	0.5"	0.3"	0.2"	8	8"	6"	8"	0.6							14	6.8	1-4

^{*} MIN. CYLINDER STRENGTH OF CONCRETE @ TIME OF TRANSFER OF PRESTRESS FORCE.

NO.	NO. DATE REVISION BY											
		STATE OF DEPARTMENT O	WISCONSII F TRANSPOI									
	STRUCTURE B-27-165											
			DRAWN BY	PLANS PTB CK'D.	RBH							
		6-INCH	ВУ		RBH							
		6-INCH STRESSE	ВУ	PTB CK'D.	RBH							
	PRE		BY D	PTB CK'D.	RBH							

8

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FORM $1\frac{1}{4}$ " DIA. HOLES IN WEB WITH PIPE SLEEVE. $\frac{1}{8}$ " DIA. HIGH STRENGTH BOLTS WITH HEX NUT, TWO WASHERS AND $3\frac{1}{2}"x3\frac{1}{2}"x\,\frac{5}{16}"$ plate washers. - ½ " DIA. HOLES IN CHANNEL CENTER OF DIAPHRAGM $\frac{7}{8}$ " DIA. HIGH STRENGTH BOLTS WITH HEX NUT, TWO WASHERS AND A $3\frac{1}{2}$ " SQUARE x $\frac{5}{16}$ " PLATE WASHER ON SLOTTED SIDE.

(FOR STAGGERED DIAPHRAGMS)

DETAIL B

GIRDER NOTES

ALL DIAPHRAGM MATERIAL NOT EMBEDDED IN THE CONCRETE GIRDER SHALL BE PAID FOR AT THE UNIT PRICE BID FOR "STEEL DIAPHRAGMS B-27-165", EACH.

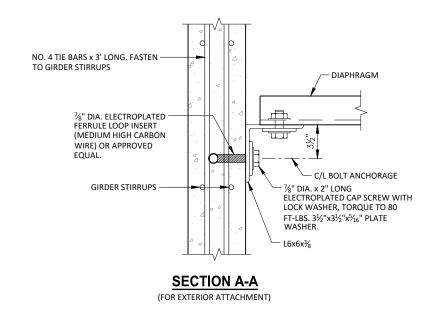
EACH DIAPHRAGM BETWEEN GIRDERS SHALL CONSTITUTE ONE UNIT.

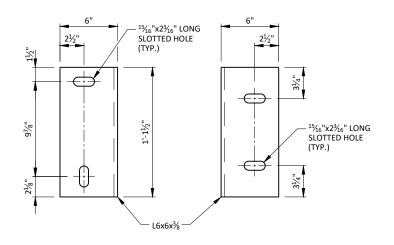
ALL DIAPHRAGM STRUCTURAL STEEL SHALL BE ASTM A709 GRADE 36. ALL BOLTS, NUTS AND WASHERS SHALL BE ASTM A325 TYPE 1.

ALL DIAPHRAGM STRUCTURAL STEEL SHOWN SHALL BE HOT-DIPPED GALVANIZED. ALL BOLTS, NUTS, AND WASHERS SHALL BE HOT-DIPPED GALVANIZED IN ACCORDANCE WITH ASTM A153 CLASS C. GALVANIZED NUTS SHALL BE TAPPED OVERSIZED IN ACCORDANCE WITH THE REQUIREMENTS OF ASTM A563 AND SHALL MEET THE REQUIREMENTS OF SUPPLEMENTARY REQUIREMENT S1 OF ASTM A563, LUBRICANT AND TEST FOR COATED

PLACE ONE DIAPHRAGM AT MID-LENGTH OF GIRDER AS INDICATED ON SHEET 8.

PART TRANSVERSE SECTION AT DIAPHRAGM

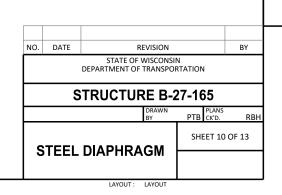




GIRDER FACE

DIAPHRAGM FACE

DIAPHRAGM SUPPORT



8

8

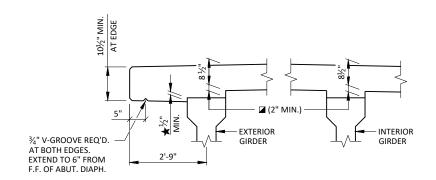
FILE NAME : R:\PROJECTS\W11591 JACKSON CO CTH X BRIDGE\STRUCTURE\CAD FILES\FINALS\10 STEEL DIAPHRAGM.DWG



NOTES

SOME BARS HAVE BEEN OMITTED FOR CLARITY. SEE SHEET 8 FOR BILL OF BARS.

T.D. - TOP OF DECK



IF 2" MINIMUM HAUNCH HEIGHT "✓" CANNOT BE MAINTAINED, THE GRADE LINE MAY BE REVISED BY THE ENGINEER AT THE OPTION OF THE CONTRACTOR. THE PLAN SLAB

THICKNESS SHALL BE HELD. MAXIMUM HAUNCH HEIGHT EQUALS "STIRRUP PROJECTION" MINUS 3".

TO DETERMINE " \square " (AFTER GIRDERS ARE IN PLACE): OBTAIN THE ELEVATIONS OF THE TOP OF GIRDER AT THE C/L OF SUBSTRUCTURE UNITS AND AT EACH $\frac{1}{10}$ POINT FOR EVERY GIRDER AND ALL SPANS, THEN PROCEED WITH THE

- TOP OF DECK ELEVATION AT THE FINAL GRADE -TOP OF GIRDER ELEVATION
- +DEAD LOAD DEFLECTION
- -SLAB THICKNESS =HAUNCH HEIGHT "■"

NOTE: AN AVERAGE HAUNCH " \blacksquare " OF 2.6" WAS USED IN THE QUANTITY "CONCRETE MASONRY BRIDGES".

★ SLAB THICKNESS SHALL BE INCREASED AS NECESSARY TO CONCEAL INTERSECTION OF SLAB AND TOP OF GIRDER AT ALL FACIA GIRDERS.

SLAB HAUNCH DETAIL

ELEVATIONS AT TOP OF DECK

9 SPA. @ 6'-0" = 54'-0"

RAIL POST SPACING

PLAN

56'-6" BACK TO BACK ABUTMENTS

54'-0" SPAN

9 SPA. @ 6'-0" = 54'-0"

RAIL POST SPACING

(TYP.)

S613 -

TOP STEEL

TYP.

--- S511

SOUTH EDGE -

NORTH EDGE

- S412

BOTTOM STEEL -

— S412

1'-8"

1'-8"

MIN. LAP

MIN. LAP

2 SPA. @ 4'-8" = 9'-4" 2'-10¹/₂"

S613

(TYP.)

C/L STRUCTURE -

2 SPA. @ 4'-8" = 9'-4"

C/L BRG.

STA. 12+49.00 -

1'-3"

2'-101/5"

W. ABUT.

1'-0½"

1'-0½"

8

GIRDER LINE		C/L BRG. W. ABUT.	0.10 PT.	0.20 PT.	0.30 PT.	0.40 PT.	0.50 PT.	0.60 PT.	0.70 PT.	0.80 PT.	0.90 PT.	C/L BRG. E. ABUT.
N. EDGE	T.D.	847.98	847.97	847.96	847.96	847.96	847.96	847.97	847.98	847.99	848.01	848.03
1	T.D.	848.01	848.00	847.99	847.99	847.99	847.99	848.00	848.01	848.02	848.04	848.06
2	T.D.	848.18	848.16	848.16	848.15	848.15	848.16	848.16	848.17	848.19	848.21	848.23
C/L	T.D.	848.26	848.25	848.24	848.24	848.24	848.24	848.25	848.26	848.27	848.29	848.31
3	T.D.	848.18	848.16	848.16	848.15	848.15	848.16	848.16	848.17	848.19	848.21	848.23
4	T.D.	848.01	848.00	847.99	847.99	847.99	847.99	848.00	848.01	848.02	848.04	848.06
S EDGE	TD	847 98	847 97	847 96	847 96	847 96	847 96	847 97	847 98	847 99	848 01	848 03

NO. DATE STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION **STRUCTURE B-27-165** SHEET 11 OF 13 SUPERSTRUCTURE

8

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2'-10½"

STA. 13+03.00 -

TYP.

— S511

S615 -

(TYP.)

1'-3"

2'-10½"

- S613

C/L BRG. E. ABUT.

— S613

2 SPA. @ 4'-8" = 9'-4"

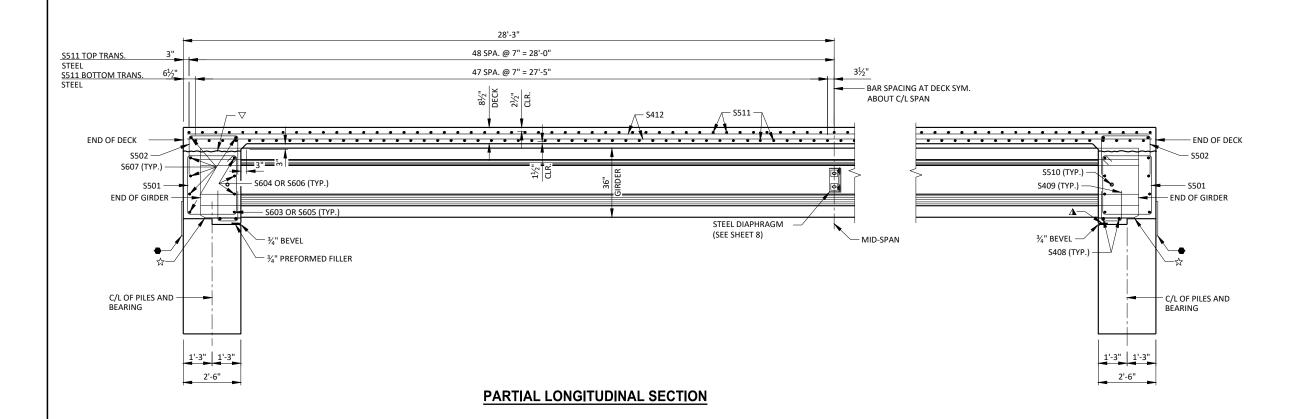
2 SPA. @ 4'-8" = 9'-4"

1'-0½"

1'-01/2"

I



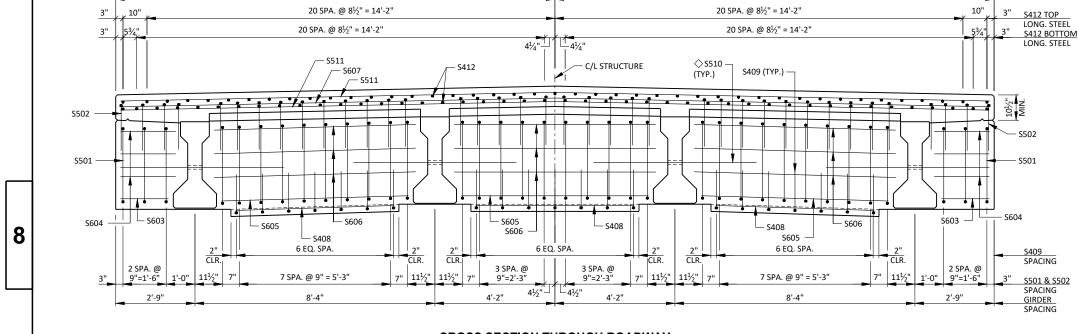


NOTES

SOME BARS HAVE BEEN OMITTED FOR CLARITY. SEE SHEET 8 FOR BILL OF BARS.

LEGEND

- 18" RUBBERIZED MEMBRANE WATERPROOFING (HORIZONTAL)
- $\not \simeq \ \, \cancel{\frac{1}{2}}''$ Non-Laminated elastomeric bearing PAD and $\cancel{\frac{1}{2}}''$ Preformed filler.
- ▲ 4"x½" PREFORMED FILLER, EXTEND FULL LENGTH OF ABUTMENTS BETWEEN EDGES OF SLAB.
- $\diamondsuit \ \ (1)\ 1\frac{1}{2}$ " DIAMETER HOLE IN WEB FOR (2) S510 HORIZONTAL BARS. BARS TO BE PLACED SYMMETRICAL ABOUT C/L OF
- OPTIONAL CONSTRUCTION JOINT. IF USED, DECK POUR MUST BE WITHIN 2 WEEKS FROM THE TIME OF THE DIAPHRAGM



30'-6"

CROSS SECTION THROUGH ROADWAY

BAR SPACING IN DIAPHRAGM SYM. ABOUT C/L STRUCTURE

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION **STRUCTURE B-27-165 SHEET 12 OF 13 SUPERSTRUCTURE DETAILS**

R:\PROJECTS\W11591 JACKSON CO CTH X BRIDGE\STRUCTURE\CAD FILES\FINALS\11 SUPERSTRUCTURE.DWG

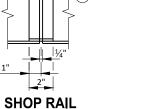
15'-3"

LEGEND ① W6x25 WITH 1½" x 1½" HORIZONTAL SLOTS ON EACH SIDE OF POST FOR BOLT NO. 6. CUT BOTTOM OF POST TO MATCH CROSS SLOPE OF ROADWAY. PLACE POST VERTICAL. PLACE POSTS NORMAL TO GRADE LINE.

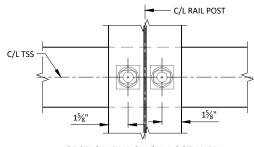
- (2) PLATE $1\frac{1}{4}$ "x $1^{1}\frac{3}{4}$ "x 1^{1} -8" WITH $1\frac{1}{16}$ "x 1^{1} %" SLOTTED HOLES FOR ANCHOR BOLTS NO. 3. WELD TO NO. 1 AS SHOWN. SLOTS PARALLEL TO SHORT SIDE OF PLATE.
- (3) ASTM A449 1½" DIA. ANCHOR BOLTS WITH NUT AND HARDENED WASHER (ALL GALVANIZED). 5 REQ'D. PER POST. THREAD 3" AND PLACE NORMAL TO PLATE NO. 2. CHAMFER TOP OF BOLTS BEFORE THREADING. AT POSTS ON CONCRETE SLAB SUPERSTRUCTURES WHERE THE SLAB THICKNESS IS > 16" USE 1'-3" LONG.
- (4) $\frac{5}{8}$ "x11"x1'-8" ANCHOR PLATE (GALVANIZED) WITH $1\frac{3}{16}$ " DIA. HOLES FOR ANCHOR BOLTS NO. 3.
- (5) TSS 5x4x0.25 STRUCTURAL TUBING. ATTACH TO NO. 1 WITH NO. 6.
- (5A) TSS 5x5x0.25 STRUCTURAL TUBING. ATTACH TO NO. 1 WITH NO. 6.
- 6 ½" DIA. A325 SLOTTED ROUND HEAD BOLT WITH NUT, ¾6"x1%"x1%" WASHER, AND LOCK WASHER (2 REQ'D. AT EACH RAIL TO POST LOCATION).
- SPLICE SLEEVE FABRICATED FROM ¼" PLATE. PROVIDE "SLIDING FIT"
- (10A) %"x25%"x2'-4" PLATE USED IN NO. 5, %"x35%"x2'-4" PLATE USED IN NO. 5A. 2 PER RAIL.
- (1) 7/8" DIA. A325 ROUND HEAD BOLT WITH NUT, WASHER, AND LOCK WASHER. USE 15/6" x11/4" LONGIT. SLOTTED HOLES AT FIELD JOINTS AND 15/16" x23/4" MIN. LONGIT. SLOTTED HOLES AT EXP. JOINTS IN PLATE NO. 10A.

B 2½" MIN. AT EXP. JTS. ½" AT FIELD JOINTS 3½" 5½" 3½" 3½" 11 PROVIDE ½"Ø DRAIN HOLES IN LOW END OF ALL RAILS CLEAR OF SPLICE TUBE

FIELD ERECTION JOINT DETAIL

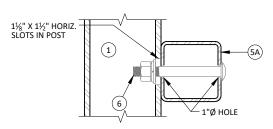






SECTION B-B

SECTION THROUGH POST WEB



SECTION THROUGH RAIL

NOTE: CONNECTIONS AT LOWER RAILS SHOWN. CONNECTIONS AT TOP RAIL SIMILAR.

TYPICAL RAIL TO POST CONNECTIONS

PLACE BELOW TOP

REINFORCEMENT

S613 - TIE TO TOP MAT OF DECK REINFORCEMENT

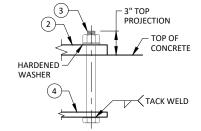
MAT OF DECK

S613 - TIE TO TOP MAT OF

- S614 AT INTERIOR POSTS

S615 AT END POSTS

- S614 AT INTERIOR POSTS S615 AT END POSTS



ANCHOR BOLTS

SECTION A-A

113/4"

SECTION THROUGH RAILING ON DECK

1'-3"

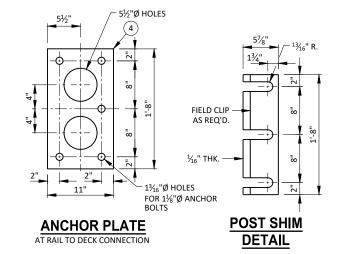
1

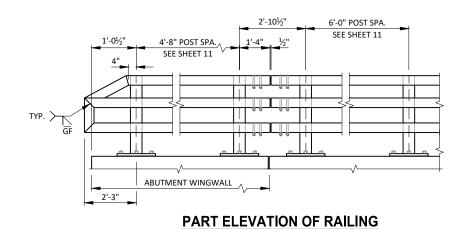
25%"

(4)

1)

THIS FACE TO BE





GENERAL NOTES

- 1. BID ITEM SHALL BE "RAILING TUBULAR TYPE M" WHICH INCLUDES ALL ITEMS SHOWN
- 2. RAIL POST AND BASE PLATES SHALL CONFORM TO THE REQUIREMENTS OF ASTM A709 GRADE 50. HOLLOW RAILING STRUCTURAL TUBING SHALL CONFORM TO THE REQUIREMENTS OF ASTM A500 GRADE B OR C WITH A CERTIFIED FY=50 KSI. ANCHOR PLATES AND SPLICE TUBE PLATES SHALL CONFORM TO THE REQUIREMENTS OF ASTM A700 GRADE 36
- 3. THE NUT SECURING THE POST BASE PLATE TO THE CONCRETE SHALL BE TIGHTENED TO A SNUG FIT AND GIVEN AN ADDITIONAL $\frac{1}{8}$ TURN.
- $4. \ \ RAILS\ SHALL\ BE\ CONTINUOUS\ OVER\ A\ MINIMUM\ OF\ THREE\ (3)\ POSTS\ WITHOUT\ SPLICES\ WHERE\ POSSIBLE.$
- 5. ENDS OF TUBE SECTIONS SHALL BE SAWED. GRIND SMOOTH EXPOSED EDGES. ALL CUT ENDS SHALL BE TRUE AND SMOOTH.
- 6. WELD IS THE SAME ON BOTH FLANGES. FLANGE WELD DOES NOT REQUIRE MAGNETIC PARTICLE TESTING.
- FILL BOLT SLOT OPENINGS IN POST SHIMS AND PLATE NO. 2 AND CAULK AROUND PERIMETER OF PLATE NO. 2
 WITH NON-STAINING GRAY NON-BITUMINOUS JOINT SEALER. STEEL POST SHIMS MAY BE USED UNDER POSTS
 WHERE REQ'D. FOR ALIGNMENT.
- 8. POST BASE PLATES SHALL BE FLAT WITH ALL SURFACES SMOOTH AND FREE FROM WARP AND ALL EDGES SMOOTH, STRAIGHT AND VERTICAL. ALL PLATE CUTS SHALL BE MACHINE OR MACHINE FLAME CUT.
- ALL MATERIAL SHALL BE GALVANIZED AFTER FABRICATION. PRIOR TO GALVANIZING, ALL STEEL RAILING POSTS & STEEL TUBING SHALL BE GIVEN A NO. 6 BLAST CLEANING BY S.S.P.C. SPECIFICATIONS.
- 10. THIS RAILING MEETS NCHRP REPORT 350 EVALUATION CRITERIA FOR TEST LEVEL 4 (TL-4).

STRUCTURE B-27-165

STRUCTURE B-27-165

DRAWN PTB CKD. RBH

TUBULAR RAILING
TYPE M

SHEET 13 OF 13

ME: R-\PROJECTS\W11591 JACKSON CO CTH X BRIDGE\STRUCTURE\CAD FILES\FINALS\13 TUBULAR RAILING TYPE M DWG

PLOT DATE : 7/11/2019 11:08

PLOT RY · ROLAND PATRIC

PLOT SCALE :

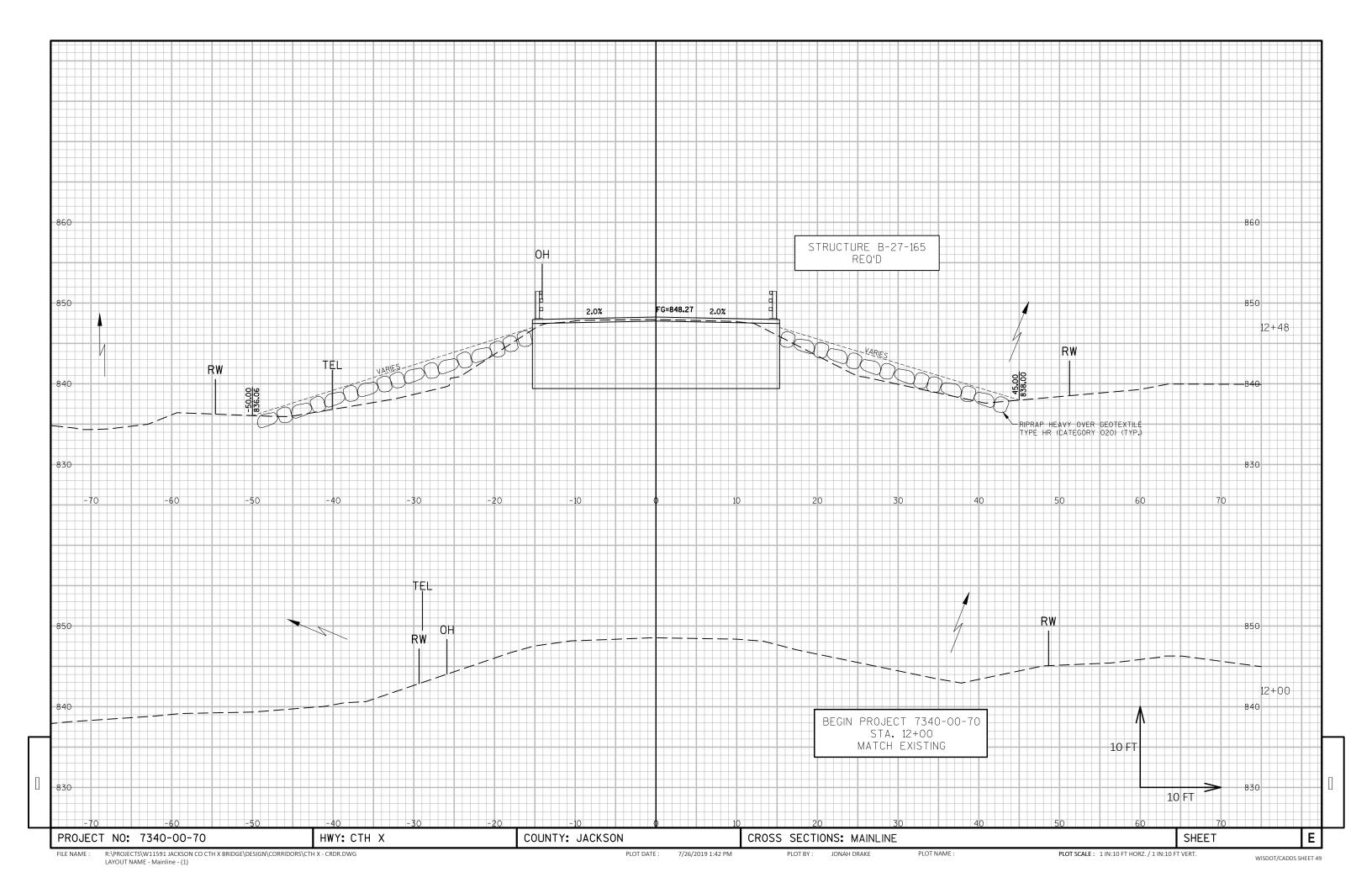
YOUT: LAYOUT (WITHOUT BEAM GUARD)

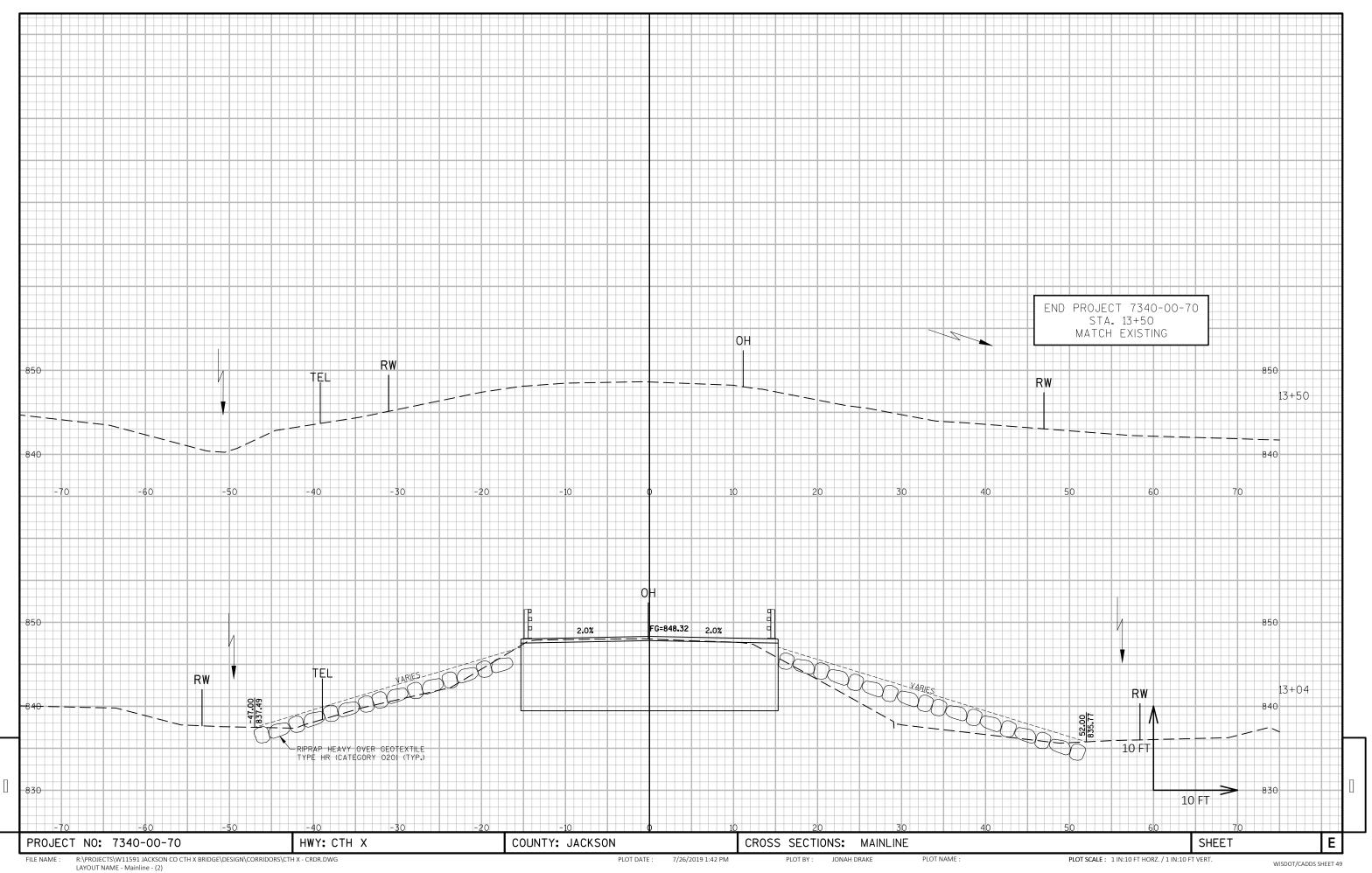
EARTHWORK-MAINLINE

	AREA (SF	·)	INCREMENT	TAL VOL (CY)		CUMMULATIVE VOLUME (CY)					
						CUT		FILL	MASS		
			CUT	FILL	FILL	1.00		(25%)	ORDINATE		
STATION	CUT	FILL	NOTE 1	NOTE 2	(25%)	NOTE 1	FILL	NOTE 3	NOTE 4		
12+00	0	0	0	0	0	0	0	0	0		
12+48	48	172	43	153	191	43	153	191	-148		
12+48	0	0	0	0	0	43	153	191	-148		
13+04	0	0	0	0	0	43	153	191	-148		
13+04	49	83	0	0	0	43	153	191	-148		
13+50	0	0	42	71	89	85	224	280	-195		
		•									
	С	OLUMN TOTALS =	= 85	224	280	85	224	280	-195		

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

PROJECT NO: 7340-00-70 HWY: CTH X EARTHWORK SHEET COUNTY: JACKSON Ε PLOT BY: JONAH DRAKE





Notes



Wisconsin Department of Transportation

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