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SWL MAR 2017

ORDER OF SHEETS

Typical Sections and Details Section No. 3 Estimate of Quantities Section No. 3 Miscellaneous Quantities

Section No. 4 Right of Way Plat

Seation No. 5 Plan and Profile (Includes Erosion Control)

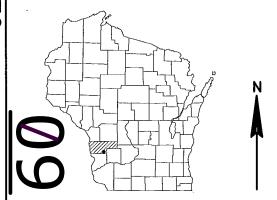
Section No. 6 Standard Detail Drawings

Section No. 7

Computer Earthwork Data

Section No. 9 Cross Sections

TOTAL SHEETS =48



= 37,000

PROFILE GRADE LINE

ORIGINAL GROUND

SPECIAL DITCH

UTILITIES

EL ECTRIC

FIBER OPTIC

SANITARY SEWER

UTILITY PEDESTAL

TELEPHONE POLE

POWER POLE

STORM SEWER

GRADE ELEVATION

MARSH OR ROCK PROFILE

CULVERT (Profile View)

(To be noted as such)

2037 = 230 Δ.Δ.Π.Τ. D.H.V. = 46 = 60/40 D.D. = 6.0% ≈ 25 MPH DESIGN SPEED

CONVENTIONAL SYMBOLS

PLAN CORPORATE LIMITS PROPERTY LINE

LOT LINE LIMITED HIGHWAY EASEMENT EXISTING RIGHT OF WAY

PROPOSED OR NEW R/W LINE

SLOPE INTERCEPT

REFERENCE LINE

PROPOSED CULVERT (Box or Pipe)

COMBUSTIBLE FLUIDS

MARSH AREA

WOODED OR SHRUB AREA

STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION

PLAN OF PROPOSED IMPROVEMENT

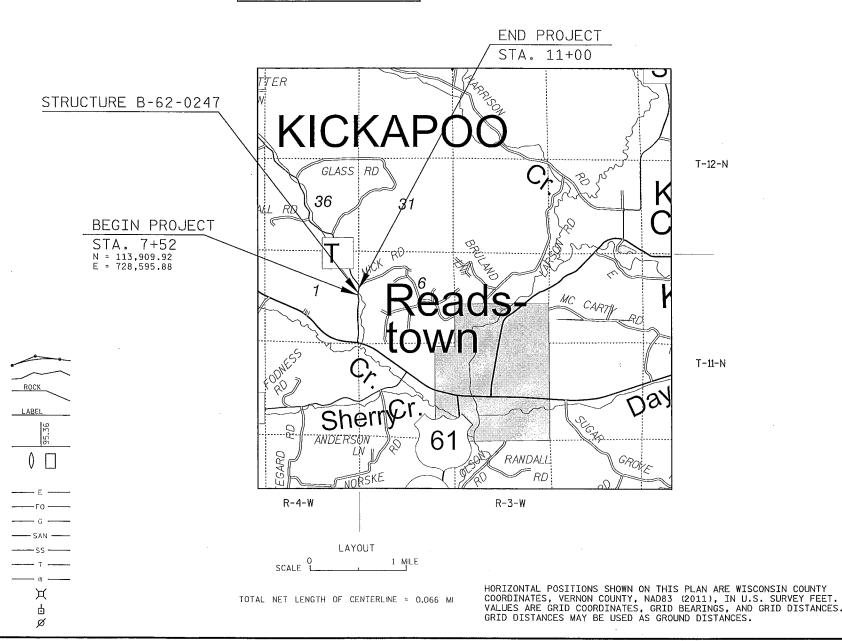
READSTOWN

(SPRING VALLEY CREEK BRIDGE B-62-0247)

CTH T

VERNON COUNTY

STATE PROJECT NUMBER 5296-00-70



FEDERAL PROJECT STATE PROJECT PROJECT CONTRACT 5296-00-70 WISC 2017098

> ACCEPTED FOR COUNTY OF VERNON

ORIGINAL PLANS PREPARED BY

SCRIPTION - MUNICIPAL

TON SHIP IN PROVIDENT AND THE STATE OF THE SHAPE OF THE SHAP

STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION

PREPARED BY

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

Monogemen

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 & B	BALLED AND BURLAPPED	HYD	HYDRANT	SB	SOUTHBOUND
ВМ	BENCH MARK	IN DIA	INCH DIAMETER	SPECS	SPECIFICATIONS
СВ	CATCH BASIN	INL	INLET	SQ	SQUARE
€ OR C/L	CENTER LINE	ID	INSIDE DIAMETER	SF OR SQ FT	SQUARE FEET
C-C	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	LF	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
	REINFORCED CONCRETE	LS	LUMP SUM	Т	TANGENT
C & G	CURB AND GUTTER	MH	MANHOLE	TEL	TELEPHONE
D	DEGREE OF CURVE	N	NORTH	TEMP	TEMPORARY
DHV	DESIGN HOUR VOLUME	Υ	NORTH GRID COORDINATE	TLE	TEMPORARY LIMITED EASEMENT
DIA OR Ø	DIAMETER	0E	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
Χ	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	ΡI	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
	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	REQD	REQUIRED	YD	YARD
F-F	FACE TO FACE	RT	RIGHT		
FERT	FERTILIZER	R/W	RIGHT-OF-WAY		
FE	FIELD ENTRANCE	RD	ROAD		

DESIGN CONTACT

MSA PROFESSIONAL SERVICES, INC. ATTN: LEAH RHODES, PE 1230 SOUTH BOULEVARD BARABOO, WI 53913 608-355-8945 LRHODES@MSA-PS.COM

COUNTY CONTACT

VERNON COUNTY ATTN: PHIL HEWITT, COMMISSIONER 602 NORTH MAIN STREET VIROQUA, WI 54665 608-637-5452 PHIL.HEWITT@VERNONCOUNTY.ORG

DNR LIAISON

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

UTILITIES

BURIED TELEPHONE:
VERNON COMMUNICATIONS COOPERATIVE
ATTN: TODD TUNKS
103 NORTH MAIN STREET
P.O. BOX 20
WESTBY, WI 54667
PHONE: 608-632-0615
TTUNKS@VERNONTEL.COM

OVERHEAD ELECTRIC:
VERNON ELECTRIC COOPERATIVE
ATTN: MONTE TEWALT
110 SAUGSTAD ROAD
WESTBY, WI 54667
PHONE: 608-634-7472
MTEWALT@VERNONELECTRIC.ORG

* NOT A MEMBER OF DIGGERS HOTLINE

Dial Or (800) 242-8511

www.DiggersHotline.com

RUNOFF COEFFICIENT TABLE

		HYDROLOGIC SOIL GROUP											
		Α			В			С			D		
	SLOPE	RANGE	(PERCENT)	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	.16	.22	.12	.20	.27	.15	.24	.33	.19	.28	.38	
	.22	.30	.38	.26	.34	.44	.30	.37	.50	.34	.41	.56	
MEDIAN STRIP-	.19	.20	.24	.19	.22	.26	.20	.23	.30	.20	.25	.30	
TURF	.24	.26	.30	.25	.28	. 33	.26	.30	.37	.27	.32	.40	
SIDE SLOPE-			.25			.27			.28			.30	
TURF			.32			.34			.36			.38	
PAVEMENT:				•			•					•	
ASPHALT						.7095							
CONCRETE						.8095							
BRICK						.7080							
DRIVES, WALKS			·			.7585			·				
ROOFS						.7595	·						
GRAVEL ROADS,	SHOULDE	ERS				.4060							

TOTAL PROJECT AREA = 0.64 ACRES

TOTAL AREA EXPECTED TO BE DISTURBED BY CONSTRUCTION ACTIVITIES = 0.48 ACRES

www.bigge

GENERAL NOTES

DISTURBED AREAS WITHIN THE RIGHT-OF-WAY, EXCEPT THE AREAS WITHIN THE FINISHED SHOULDER POINTS, SHALL BE FERTILIZED, SEEDED AND MULCHED AS DIRECTED BY THE ENGINEER. OVERSOW PERMANENT SEEDING AREAS WITH TEMPORARY SEED AT 3 LBS. PER 1000 SQUARE FEET.

THE LOCATIONS OF EXISTING 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 (2012 ADJUSTED). BENCHMARKS WERE LOCATED IN THE FIELD USING GPS TECHNOLOGY.

THE 4" ASPHALTIC SURFACE SHALL CONSIST OF A 13/4" UPPER LAYER WITH 12.5MM NOMINAL SIZE AGGREGATE AND A 21/4" LOWER LAYER WITH 19.0MM NOMINAL SIZE AGGREGATE.

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

WETLANDS ARE PRESENT OUTSIDE THE EXISTING TOE OF SLOPE, AREAS OUTSIDE THE SLOPE INTERCEPTS SHALL NOT BE DISTURBED.

PROJECT NO:5296-00-70 HWY:CTH T

COUNTY: VERNON

GENERAL NOTES

PLOT SCALE: 0.100015

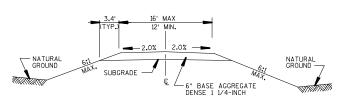
SHEET

E

EXISTING TYPICAL SECTION

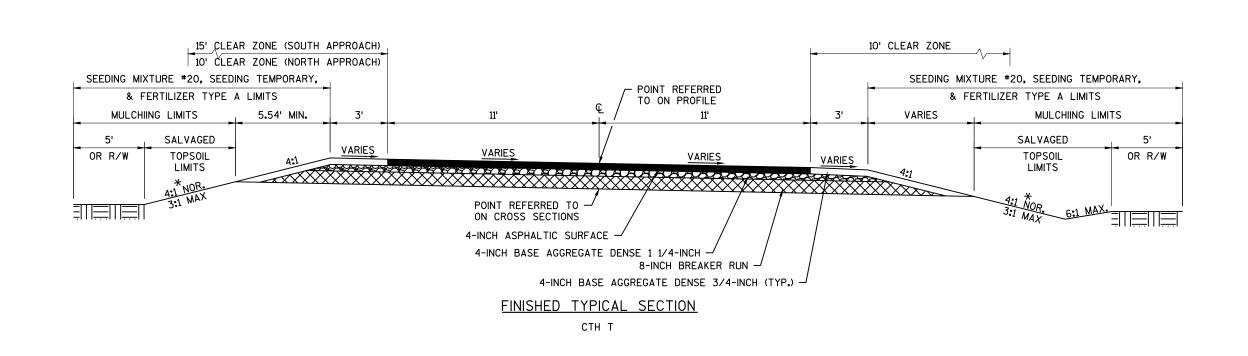
CTH T

VARIES EXISTING 5-INCH TO 9-INCH ASPHALTIC SURFACE VARIES EXISTING 5-INCH TO 7-INCH BASE AGGREGATE



FIELD ENTRANCE TYPICAL SECTION

FIELD ENTRANCE DETAILS



HWY: CTH T

* EROSION MAT URBAN CLASS I, TYPE B. (SEE PLAN & PROFILE FOR LOCATIONS)

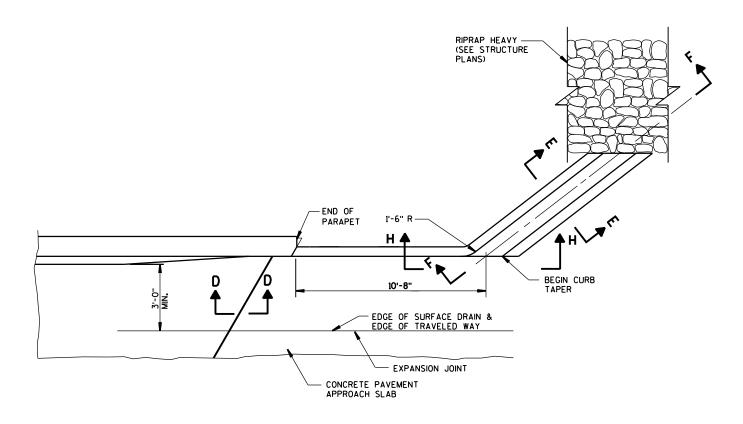
PROJECT NO:5296-00-70

COUNTY: VERNON

TYPICAL SECTION / CONSTRUCTION DETAILS

SHEET

E



CONCRETE SURFACE DRAIN

(WING 1 ONLY)

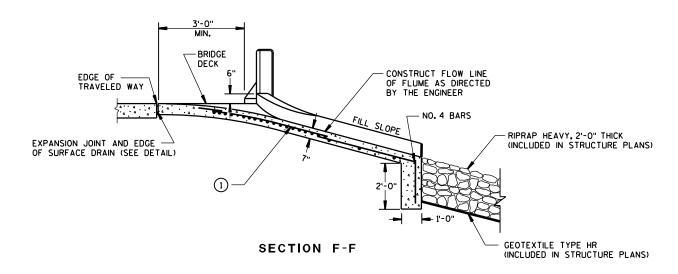
FOR SECTIONS D-D, E-E AND H-H, AND FOR EXPANSION JOINT DETAIL, SEE SDD 8D2, CONCRETE SURFACE DRAINS FLUME TYPE AT STRUCTURES.

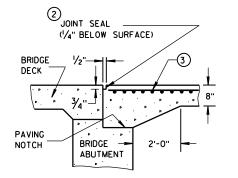
GENERAL NOTES

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.

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

1 MINIMUM REINFORCEMENT SHALL BE 6" X 6" - W4.0 X W4.0 OR NO. 3 BARS LONGITUDINAL AND TRANSVERSE SPACING 12" C-C.





GENERAL NOTES

PLOT BY : jsnyder

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.

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

- (2) HOT POURED SEALANT UNLESS OTHERWISE SPECIFIED
- MINIMUM REINFORCEMENT SHALL BE 6" X 6" W4.0 X W4.0 3 MINIMUM REINFORCEMENT SHALL BE 6 X 6 - 117.0 A 11.10 OR NO. 3 BARS LONGITUDINAL AND TRANSVERSE SPACING 12" C-C.

CONCRETE PAVEMENT 8-INCH SPECIAL

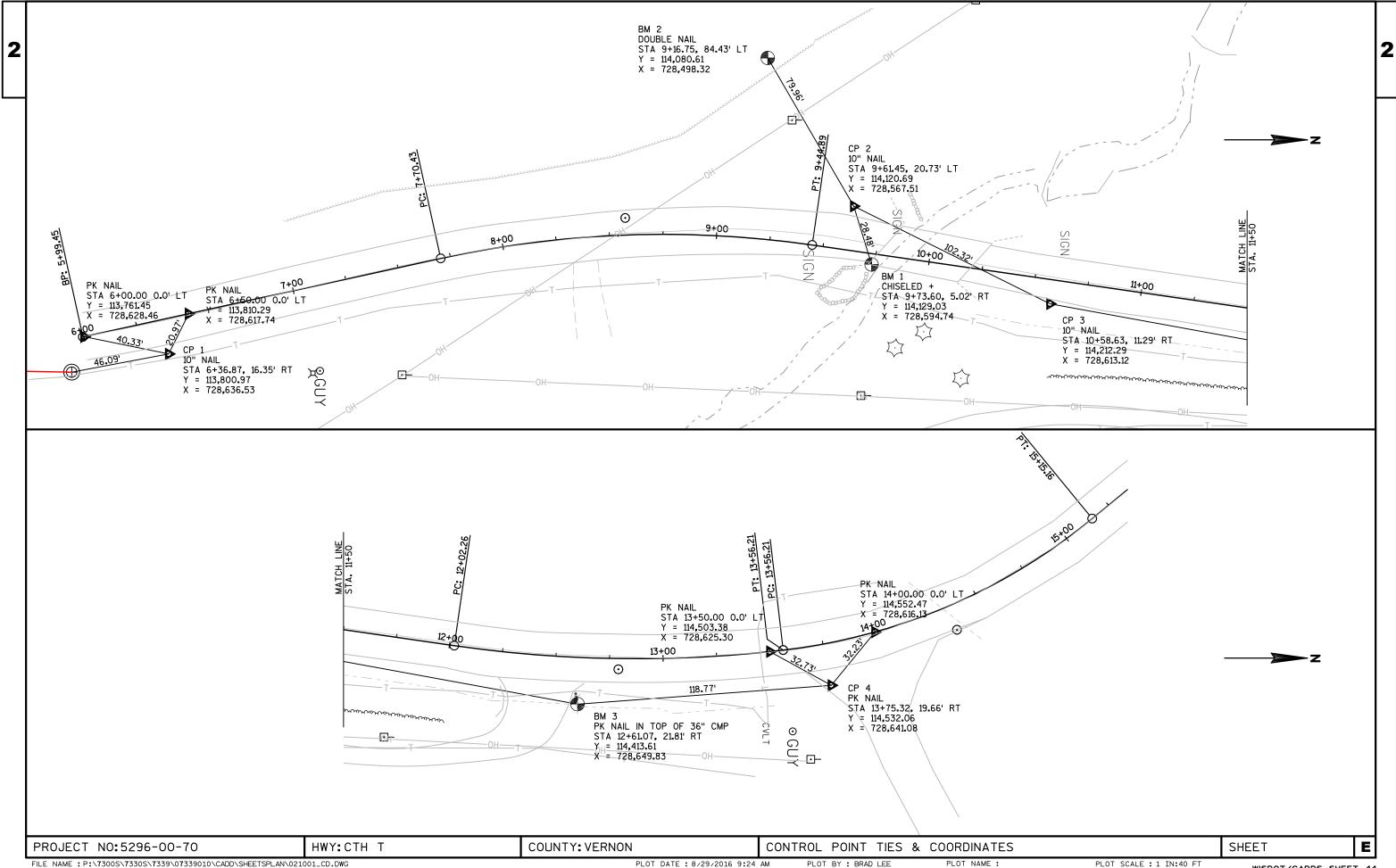
(WINGS 2, 3, & 4)

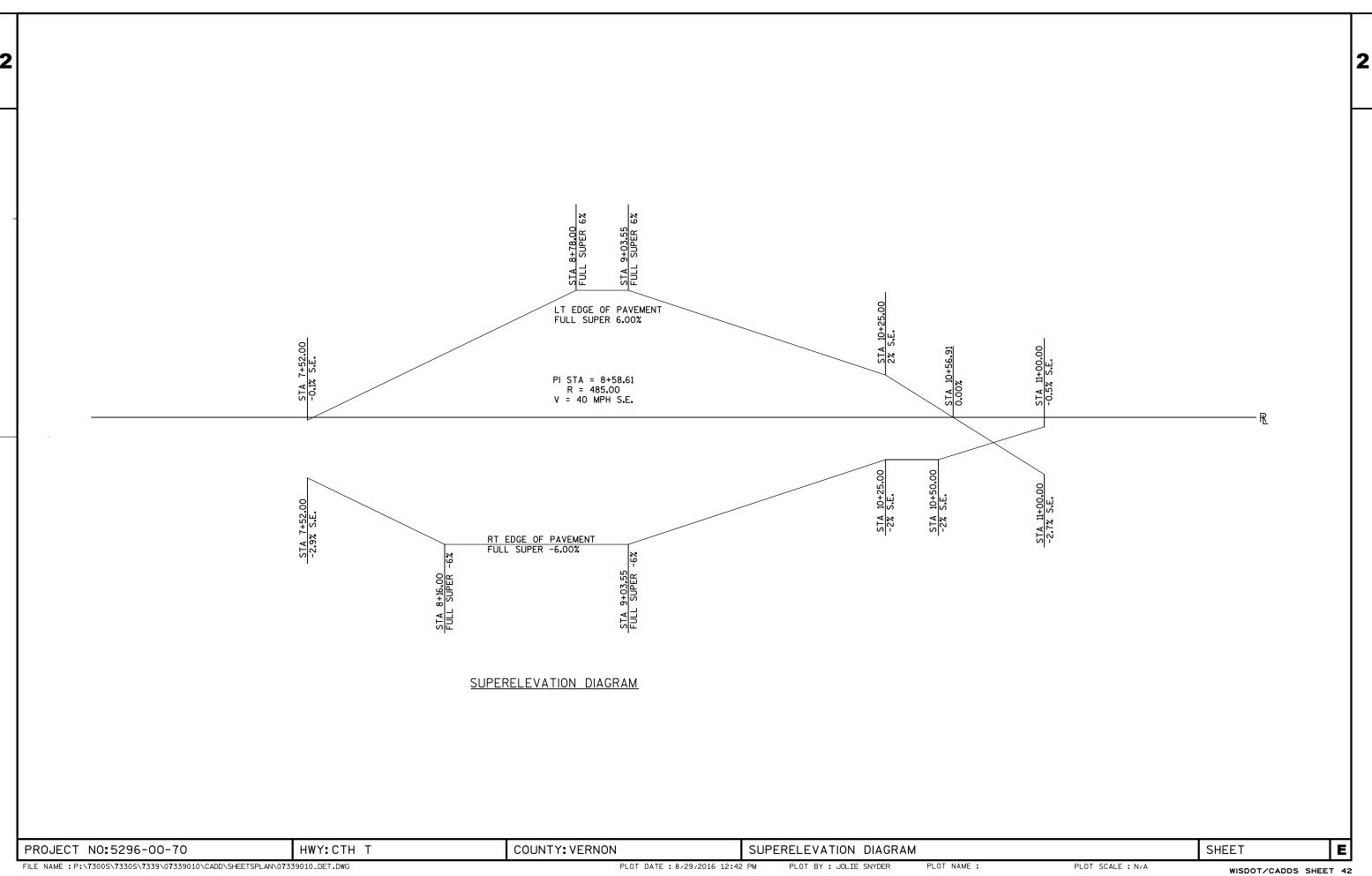
HWY: CTH T COUNTY: VERNON PROJECT NO:5296-00-70

CONCRETE SURFACE DRAIN & CONCRETE PAV'T SPECIAL DETAILS PLOT NAME :

SHEET

FILE NAME: P:\7300s\7330s\7339\07339010\CADD\SheetsPlan\07339010CD2.dgn





Page 1

					5296-00-70
Line	Item	Item Description	Unit	Total	Qty
0010	201.0105	Clearing	STA	2.000	2.000
0010	201.0105	Grubbing	STA	2.000	2.000
0020	201.0205 203.0600.S	Removing Old Structure Over Waterway With Minimal	LS	1.000	1.000
		Debris (station) 01. Sta. 10+00			
0040	205.0100	Excavation Common **P**	CY	566.000	566.000
0050	206.1000	Excavation for Structures Bridges (structure) 01. B-62-247	LS	1.000	1.000
0060	210.1500	Backfill Structure Type A	TON	530.000	530.000
0070	213.0100	Finishing Roadway (project) 01. 5296-00-70	EACH	1.000	1.000
0800	305.0110	Base Aggregate Dense 3/4-Inch	TON	125.000	125.000
0090	305.0120	Base Aggregate Dense 1 1/4-Inch	TON	222.000	222.000
0100	311.0110	Breaker Run	TON	465.000	465.000
0110	415.0410	Concrete Pavement Approach Slab	SY	104.000	104.000
0120	416.1010	Concrete Surface Drains	CY	2.000	2.000
0130	455.0605	Tack Coat	GAL	33.000	33.000
0140	465.0105	Asphaltic Surface	TON	145.000	145.000
0150	502.0100	Concrete Masonry Bridges	CY	225.000	225.000
0160	502.3200	Protective Surface Treatment	SY	205.000	205.000
0170	502.3210	Pigmented Surface Sealer	SY	41.000	41.000
0180	505.0400	Bar Steel Reinforcement HS Structures	LB	5,380.000	5,380.000
0190	505.0600	Bar Steel Reinforcement HS Coated Structures	LB	26,840.000	26,840.000
0200	516.0500	Rubberized Membrane Waterproofing	SY	14.000	14.000
0200	550.0500	Pile Points	EACH	14.000	14.000
0220	550.1100	Piling Steel HP 10-Inch X 42 Lb	LF	330.000	330.000
0230	606.0300	Riprap Heavy	CY	220.000	220.000
0240	612.0406	Pipe Underdrain Wrapped 6-Inch	LF	180.000	180.000
0250	619.1000	Mobilization	EACH	1.000	1.000
0260	624.0100	Water	MGAL	47.000	47.000
0270	625.0500	Salvaged Topsoil	SY	530.000	530.000
0280	627.0200	Mulching	SY	1,000.000	1,000.000
0290	628.1504	Silt Fence	LF	510.000	510.000
0300	628.1520	Silt Fence Maintenance	LF	510.000	510.000
0310	628.1905	Mobilizations Erosion Control	EACH	2.000	2.000
0320	628.1910	Mobilizations Emergency Erosion Control	EACH	2.000	2.000
0330	628.2008	Erosion Mat Urban Class I Type B	SY	280.000	280.000
0340	628.6005	Turbidity Barriers	SY	250.000	250.000
0350	629.0205	Fertilizer Type A	CWT	1.000	1.000
0360	630.0120	Seeding Mixture No. 20	LB	36.000	36.000
0370	630.0200	Seeding Temporary	LB	36.000	36.000
0380	633.5100	Markers Row	EACH	10.000	10.000
3000	000.0100			70.000	.0.000

5296-00-7	7∩

Line	Item	Item Description	Unit	Total	Qty
0390	634.0612	Posts Wood 4x6-Inch X 12-FT	EACH	4.000	4.000
0400	637.2230	Signs Type II Reflective F	SF	12.000	12.000
0410	638.2602	Removing Signs Type II	EACH	4.000	4.000
0420	638.3000	Removing Small Sign Supports	EACH	4.000	4.000
0430	642.5001	Field Office Type B	EACH	1.000	1.000
0440	643.0100	Traffic Control (project) 01. 5296-00-70	EACH	1.000	1.000
0450	645.0120	Geotextile Type HR	SY	420.000	420.000
0460	646.0106	Pavement Marking Epoxy 4-Inch	LF	1,392.000	1,392.000
0470	650.4500	Construction Staking Subgrade	LF	300.000	300.000
0480	650.5000	Construction Staking Base	LF	300.000	300.000
0490	650.6500	Construction Staking Structure Layout (structure) 01. B-62-247	LS	1.000	1.000
0500	650.7000	Construction Staking Concrete Pavement	LF	42.000	42.000
0510	650.9910	Construction Staking Supplemental Control (project) 01. 5296-00-70	LS	1.000	1.000
0520	650.9920	Construction Staking Slope Stakes	LF	300.000	300.000
0530	690.0150	Sawing Asphalt	LF	44.000	44.000
0540	715.0415	Incentive Strength Concrete Pavement	DOL	500.000	500.000
0550	715.0502	Incentive Strength Concrete Structures	DOL	1,350.000	1,350.000
0560	SPV.0180	Special 01. Concrete Pavement 8-Inch Special	SY	24.000	24.000

455.0605 TACK COAT 465.0105 ASPHALTIC SURFACE

ALL ITEMS AND QUANTITIES ON THIS SHEET ARE FOR ENGINEER ESTIMATE CATEGORY 0010.

P - PAY PLAN QUANTITY

				CLEARING	GRUBBING
STATION	-	STATION	LOCATION	STA	STA
9+00	-	11+00	RIGHT	2	2
		TOTALS:		2	2

205.0100 EXCAVATION COMMON **P**

	EXC. COMMON	FILL	EXPANDED FILL	WASTE	
LOCATION	CY (3)	CY (1)	CY (2)	CY	
STA 7+52 - STA. 9+65.56	419	106	139	280	_
STA 10+14.44 - STA 11+00	147	176	229	-82	
TOTALS:	566	282	368	198	

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

(2) - FILL EXPANSION 30%

(3) - EXISTING ASPHALTIC PAVEMENT IS INCLUDED IN COMMON EXCAVATION TOTALS. SEE EARTHWORK TABLE.

305.0110 BASE AGGREGATE DENSE 3/4-INCH

305.0120 BASE AGGREGATE DENSE 1 1/4-INCH

311.0110 BREAKER RUN

624.0100 WATER

			BASE AGGREGATE DENSE	BASE AGGREGATE DENSE	BREAKER	
			3/4-INCH	1 1/4-INCH	RUN	WATER*
STATION	-	STATION	TON	TON	TON	MGAL
7+52.00	-	9+65.56	92	160	330	12
10+14.44	-	11+00.00	33	60	135	5
8+3	38 (FE, I	RT)		2		
		TOTALS:	125	222	465	17

*ADDITIONAL QUANTITY INCLUDED WITH EROSION CONTROL ITEMS

SPV.0180.01 CONCRETE PAVEMENT 8-INCH SPECIAL 415.0410 CONCRETE PAVEMENT APPROACH SLAB

				PAVEMENT	APPROACH*
				8-INCH SPECIAL	SLAB
	STATION	-	STATION	SY	SY
	9+45	-	9+74	10	52
	10+06	-	10+35	14	52
_			TOTALS:	24	104

*QUANITITY INCLUDES CONCRETE PAVEMENT APPROACH SLAB (NON-REINFORCED)

416.1010 CONCRETE SURFACE DRAINS

	DRAINS
LOCATION	CY
WING 1	2.0
TOTAL:	2.0
	•

SURFACE TACK COAT STATION -STATION GAL TON 7+52.00 -9+45.00 24.5 107 10+35.00 - 11+00.00 8.5 38

625.0500 SALVAGED TOPSOIL

627.0200 MULCHING

629.0205 FERTILIZER TYPE A

630.0120 SEEDING MIXTURE NO. 20 630.0200 SEEDING TEMPORARY

624.0100 WATER

				SALVAGED TOPSOIL	MULCHING	FERTILIZER	SEEDING #20	SEEDING TEMPORARY	WATER*
STATION	-	STATION	LOCATION	SY	SY	CWT	LB	LB	MGAL
7+52	-	9+90	LT	160	295	0.25	11	11	9
7+52	-	9+60	RT	30	145	0.15	7	7	6
10+25	-	11+00	LT	25	70	0.05	3	3	2
9+75	-	11+00	RT	215	290	0.20	9	9	8
UNDI	STRIBU	TED		100	200	0.20	6	6	5
		TOTALS:		530	1000	1	36	36	30

ASPHALTIC

*ADDITIONAL QUANTITY INCLUDED WITH BASE AGGREGATE ITEMS.

628.2008 EROSION MAT URBAN CLASS I TYPE B

628.1504 SILT FENCE

628.1520 SILT FENCE MAINTENANCE

					FENCE	MAINT.
	STATION	-	STATION	LOCATION	LF	LF
	7+52.00	-	9+90.00	LT	250	250
	7+52.00	-	9+42.00	RT	180	180
	10+75.00	-	11+00.00	LT	30	30
	UNDI	STRIB	UTED	-	50	50
				TOTALS:	510	510
_						

	URBAN
	CLASS I
	TYPE B
LOCATION	SY
STA 9+03 - STA 9+34, RT	28
STA 10+06 - STA 10+93, RT	215
STA 10+65 - STA 10+78, LT	11
UNDISTRIBUTED	26
TOTALS:	280
:	

628.6005 TURBIDITY BARRIERS

LOCATION	SY
SOUTH ABUT	90
NORTH ABUT	160
TOTAL:	250

633.5100 MARKERS ROW

	STATION	OFFSET	LOCATION	EACH
	9+00	34.60	LT	1
	9+00	31.45	RT	1
	9+75	37.45	LT	1
	9+75.82	53.37	RT	1
	10+00	45.00	LT	1
	10+00	60.00	RT	1
	10+75	50.00	RT	1
	10+90	45.00	LT	1
	11+25	33.00	LT	1
	11+25	33.00	RT	1
_			TOTAL:	10

PROJECT NO: 5296-00-70 HWY: CTH T COUNTY: VERNON

MISCELLANEOUS QUANTITIES

PLOT NAME :

PLOT SCALE : 1:20

SHEET

634.0612 POSTS WOOD 4x6-INCH x 12-FT

637.2230 SIGNS TYPE II REFLECTIVE F

638.2602 REMOVING SIGNS TYPE II 638.3000 REMOVING SMALL SIGN SUPPORTS NOTE:
ALL ITEMS AND QUANTITIES ON THIS SHEET ARE
FOR ENGINEER ESTIMATE CATEGORY 0010.

		SIGN		SIGNS TYPIE II REFLECTIVE F	WOOD POSTS	REMOVING SIGNS TYPE II	REMOVING SMALL SIGN SUPPORTS	
STATION	LOCATION	CODE	SIZE	SF	EACH	EACH	EACH	COMMENTS
9+45	RT	-	-	-	-	-	-	WEIGHT LIMIT POSTING (REMOVED BY COUNTY)
9+56	RT	W5-52R	12"x36"	3	1	-	-	OBJECT MARKER
9+72	RT	-	-	-	-	1	1	EXISTING OBJECT MARKER
9+74	LT	W5-52L	12"x36"	3	1	-	-	OBJECT MARKER
9+85	LT	-	-	-	-	1	1	EXISTING OBJECT MARKER
10+06	RT	W5-52L	12"x36"	3	1	-	-	OBJECT MARKER
10+14	RT	-	-	-	-	1	1	EXISTING OBJECT MARKER
10+24	LT	W5-52R	12"x36"	3	1	-	-	OBJECT MARKER
10+28	LT	-	-	-	-	1	1	EXISTING OBJECT MARKER
10+60	LT	-	-	-	-	-	-	WEIGHT LIMIT POSTING (REMOVED BY COUNTY)
		TOTALS:		12	4	4	4	

646.0106 PAVEMENT MARKING EPOXY 4-INCH

				PAVEMENT PAVEMENT	
				MARKING	MARKING
				YELLOW	WHITE
STATION	-	STATION	LOCATION	LF	LF
7+52	-	11+00	CENTERLINE - DOUBLE SOLID	696	-
7+52	-	11+00	EDGELINE LT & RT - SOLID	-	696
			TOTAL:	1392	

650.4500 CONSTRUCTION STAKING SUBGRADE

650.5000 CONSTRUCTION STAKING BASE

650.7000 CONSTRUCTION STAKING CONCRETE PAVEMENT

650.9920 CONSTRUCTION STAKING SLOPE STAKES

650.9910 CONSTRUCTION STAKING SUPPLEMENTAL CONTROL 5296-00-70

					CONCRETE	SLOPE	SUPPLEMENTAL
			SUBGRADE	BASE	PAV'T	STAKES	CONTROL
STATION	-	STATION	LF	LF	LF	LF	LS
7+52	-	9+65.56	214	214	-	214	-
9+45	-	9+66	-	-	21	-	-
10+14	-	10+35	-	-	21	-	-
10+14.44	-	11+00	86	86	-	86	-
		TOTALS:	300	300	42	300	1

690.0150 SAWING ASPHALT

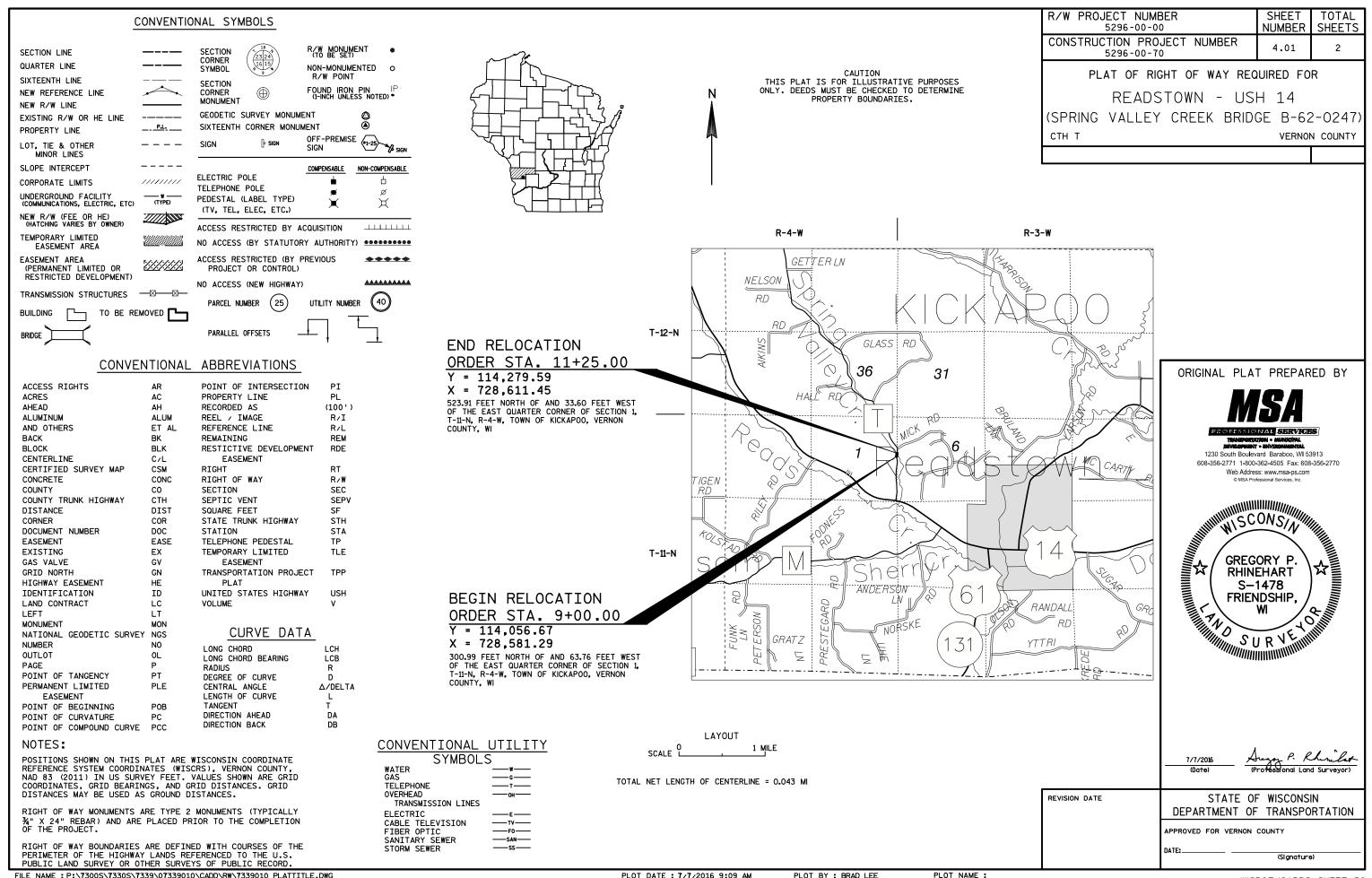
STATION	LF
7+52	22
11+00	22
TOTAL ·	44

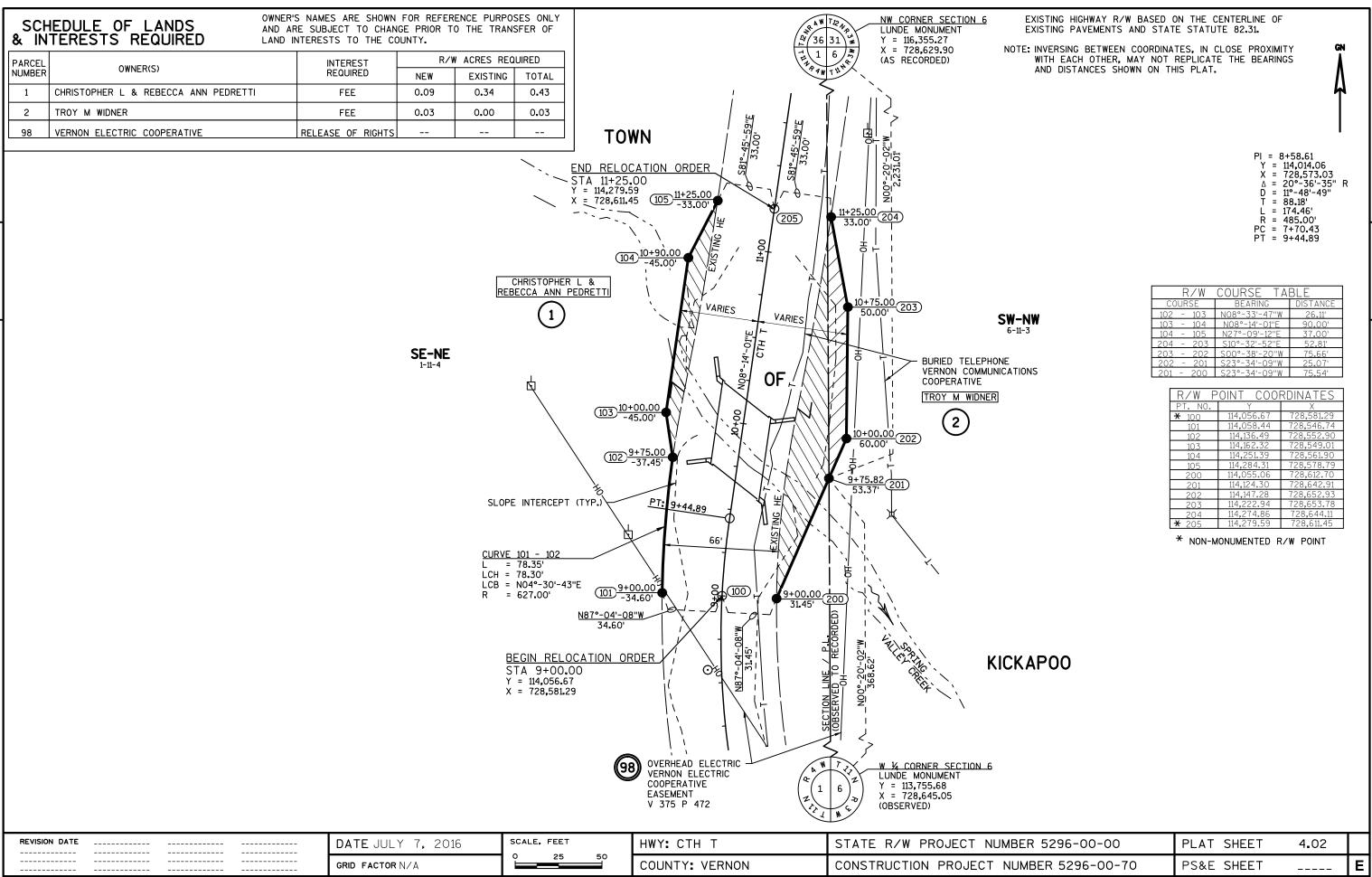
PROJECT NO: 5296-00-70 HWY: CTH T COUNTY: VERNON MISCELLANEOUS QUANTITIES SHEET

7339010_MiseQty & Earthwork Borders.dgn 6/20/2016 10:48:03 AM jsnyder

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FILE NAME : 7339010 PLAT.DWG

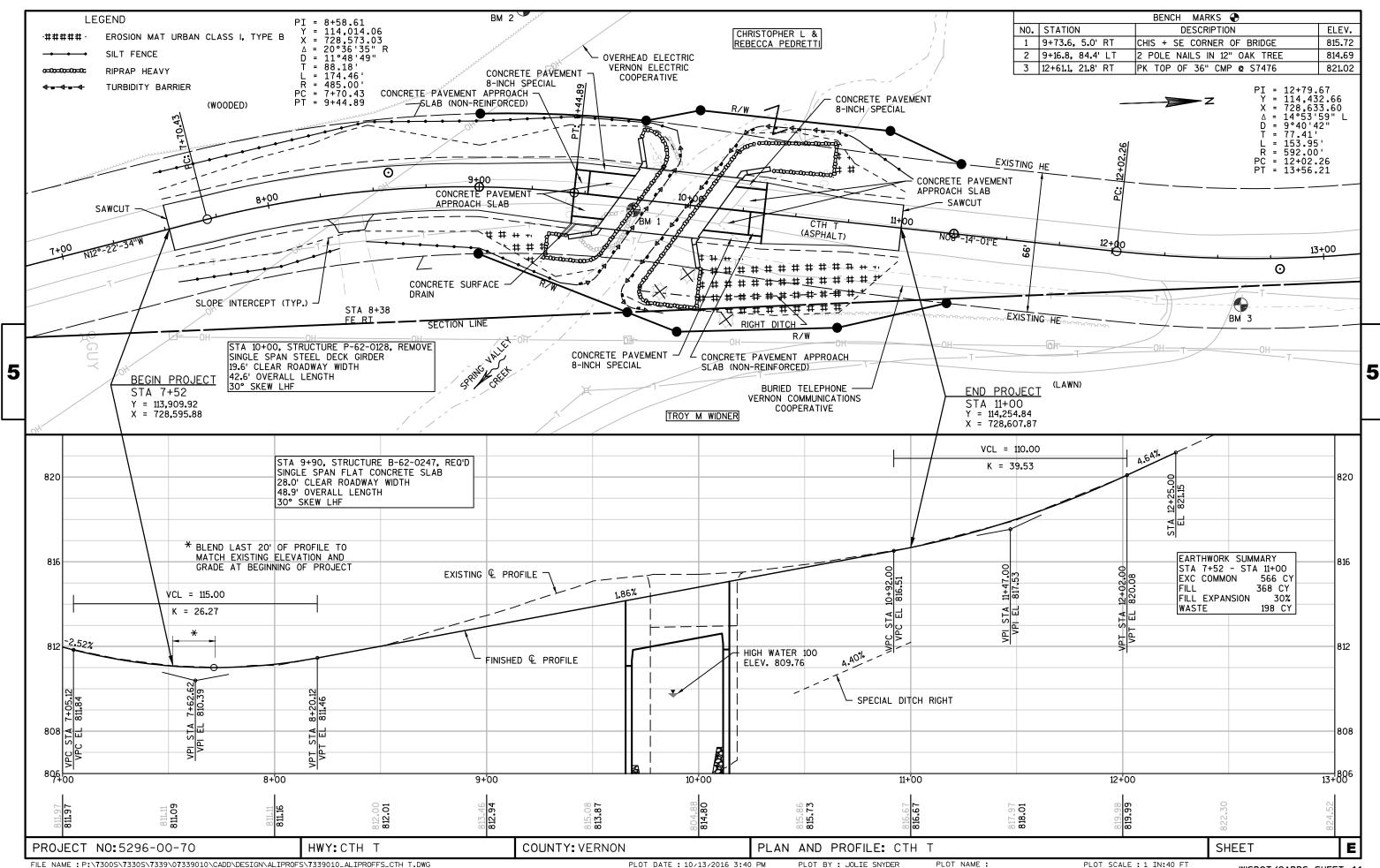
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PLOT DATE : 7/7/2016 9:25 AM

PLOT BY : BRAD LEE PLOT NAME :

PLOT SCALE : 1 IN:50 FT

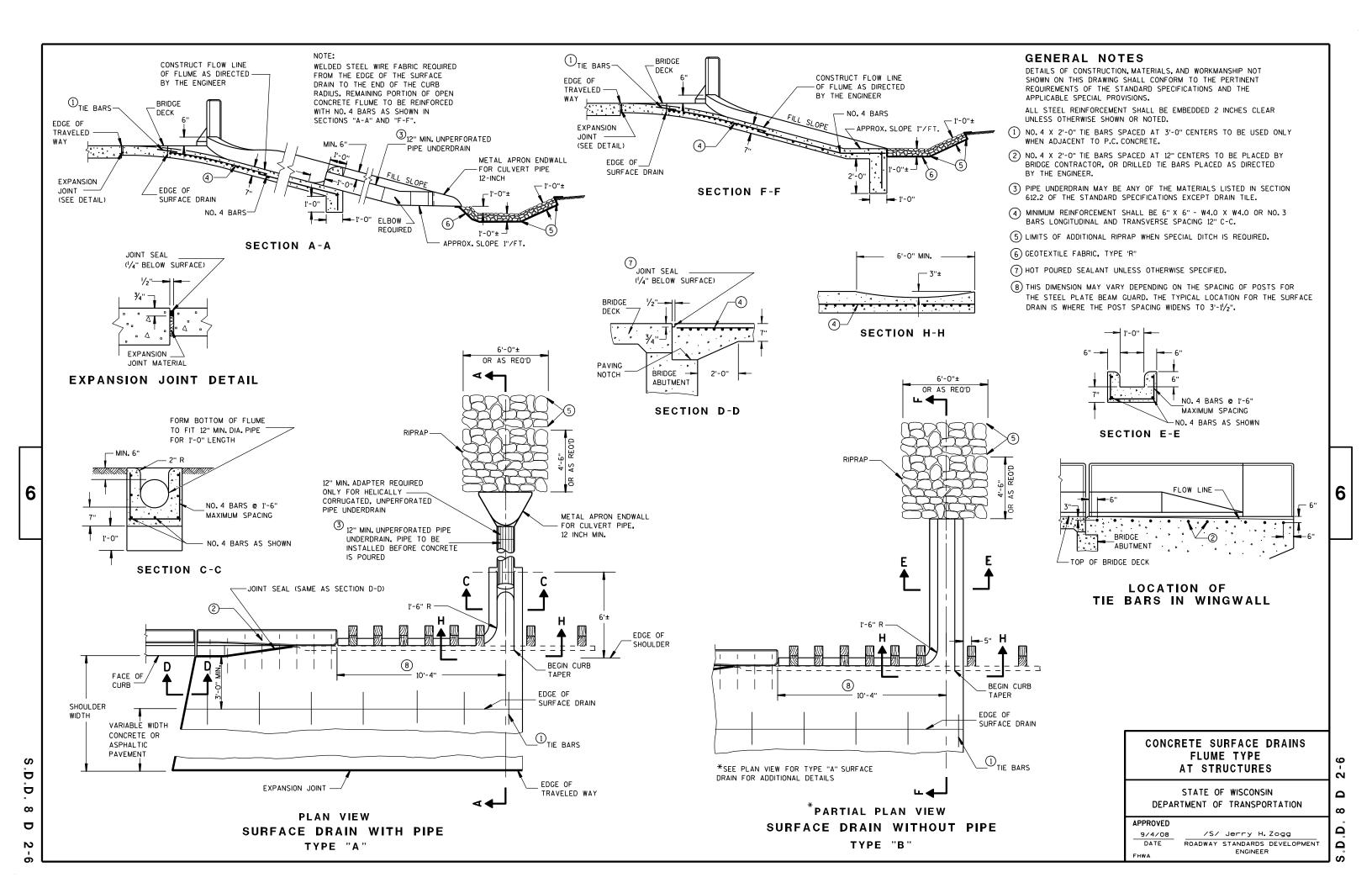
4



Standard Detail Drawing List

08D02-06	CONCRETE SURFACE DRAINS FLUME TYPE AT STRUCTURES
08E09-06	SILT FENCE
08E11-02	TURBI DI TY BARRI ER
12A03-10	NAME PLATE (STRUCTURES)
13A03-06	CONCRETE PAVEMENT SHOULDERS
13B02-08A	CONCRETE PAVEMENT APPROACH SLAB
13C01-18	CONCRETE PAVEMENT LONGITUDINAL JOINTS AND TIES
13C11-11A	RURAL DOWELED CONCRETE PAVEMENT
13C11-11B	RURAL DOWELED CONCRETE PAVEMENT
13C18-03A	CONCRETE PAVEMENT JOINTING
15A01-13A	MARKER POST FOR RIGHT-OF-WAY
15C02-06A	BARRICADES AND SIGNS FOR MAINLINE CLOSURES
15C02-06B	BARRICADES AND SIGNS FOR MAINLINE CLOSURES
15C06-08	SIGNING & MARKING FOR TWO LANE BRIDGES
15C08-16A	PAVEMENT MARKING (MAINLINE)

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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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GENERAL NOTES

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

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

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





SECTION C-C

TURBIDITY BARRIER DETAIL SHOWING TYPICAL PLACEMENT AT STRUCTURES

TURBIDITY BARRIER

STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION

APPROVED

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

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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

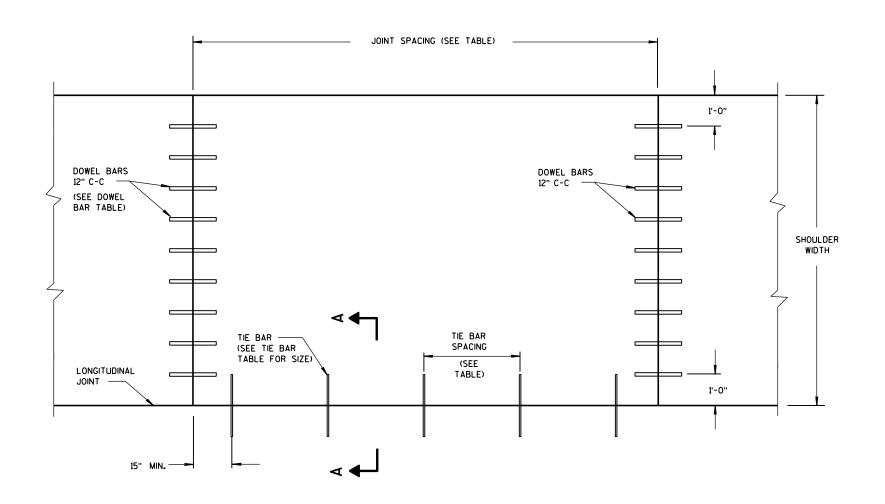
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3/26/IO /S/ SCOT BECKET

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 1/2"	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.

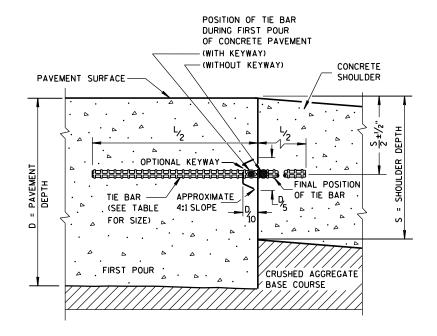
GENERAL NOTES

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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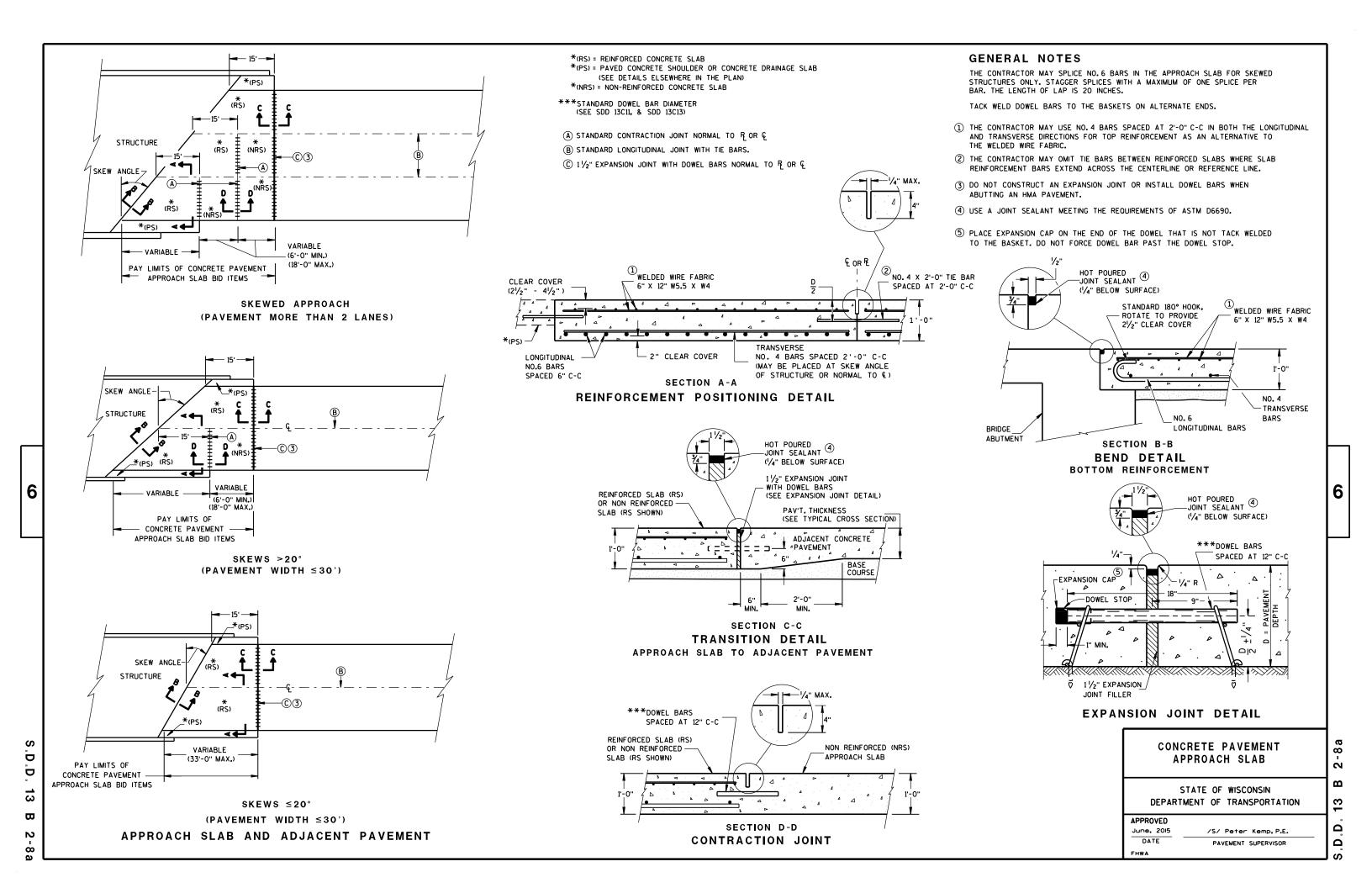
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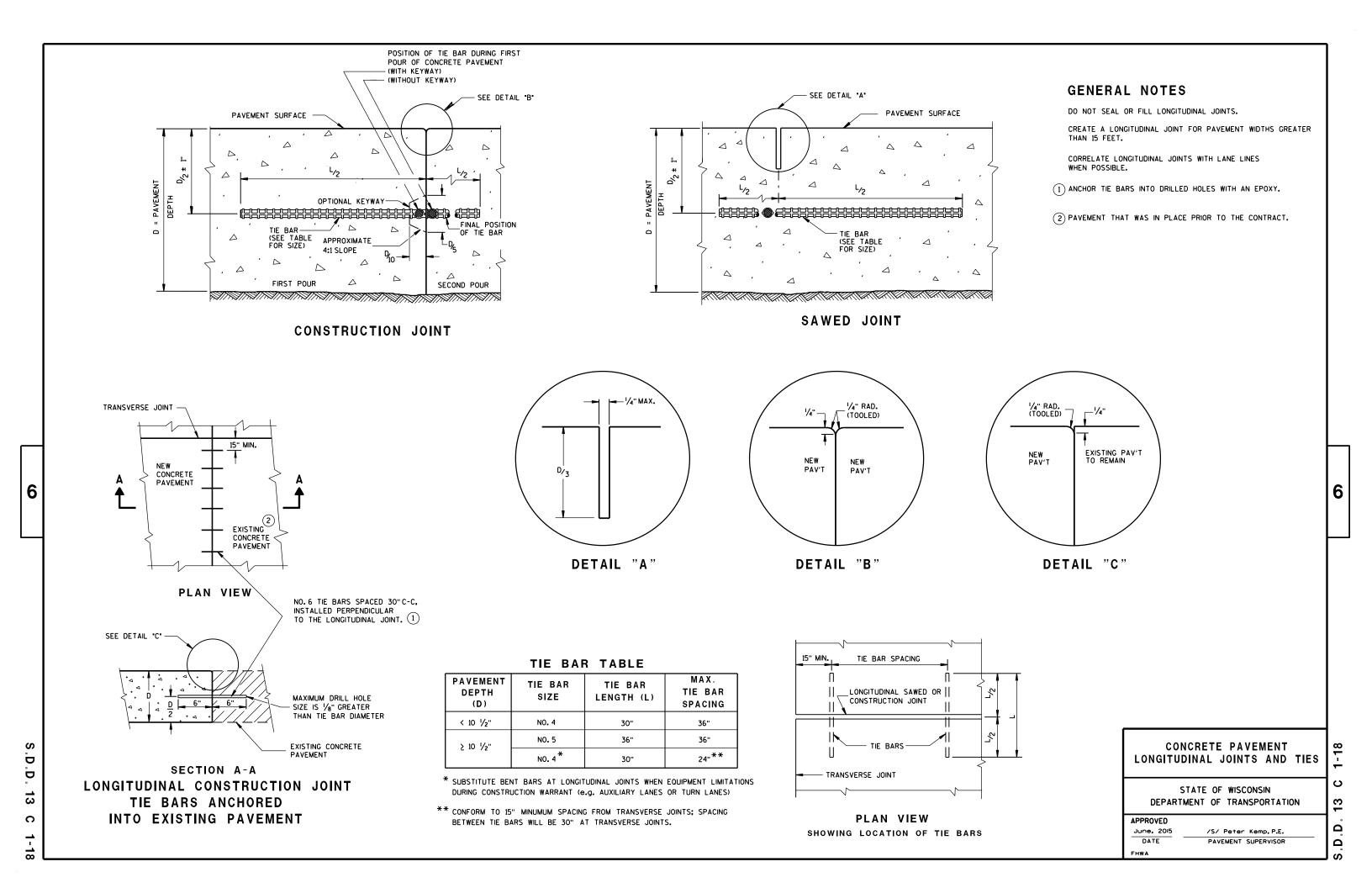
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STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION

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





GENERAL NOTES

CONTRACTION JOINTS

CONSTRUCT TRANSVERSE CONTRACTION JOINTS NORMAL TO THE CENTERLINE. SHOW THE LOCATION OF CONTRACTION JOINTS THROUGH INTERSECTIONS ON THE PLANS OR AS DIRECTED BY THE ENGINEER.

DO NOT SEAL OR FILL CONTRACTION JOINTS.

INSTALL DOWEL BARS PARALLEL TO THE PAVEMENT CENTERLINE AND PAVEMENT

FOR PAVEMENT SLABS OF VARYING WIDTHS, LOCATE THE OUTER MOST DOWEL BAR SO THAT THE CENTER OF THE BAR IS A MINIMUM OF 6 INCHES AND A MAXIMUM OF 18 INCHES FROM THE FREE EDGE OF PAVEMENT.

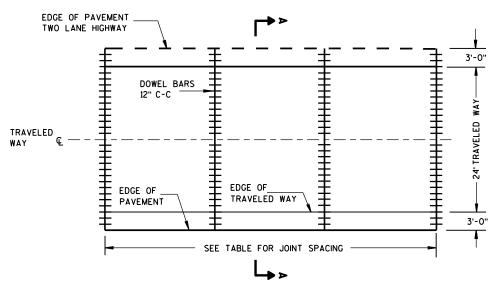
CONSTRUCTION JOINTS

LOCATE CONSTRUCTION JOINTS A MINIMUM OF 6 FEET FROM THE NEAREST CONTRACTION JOINT AND ALIGN PARALLEL TO CONTRACTION JOINTS.

- 1 REFER TO TYPICAL CROSS SECTIONS FOR ADDITIONAL DETAILS.
- 2 MEASURE THE ENTIRE PAVED WIDTH INCLUDING THE PORTION(S) LABELED PAVED SHOULDER AS CONCRETE PAVEMENT.

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 1/2"	1"	14'
8" , 8 ¹ / ₂ "	1 1/4"	15'
9",9 1/2"	1 1/4"	15'
10" & ABOVE	1 1/2"	15'



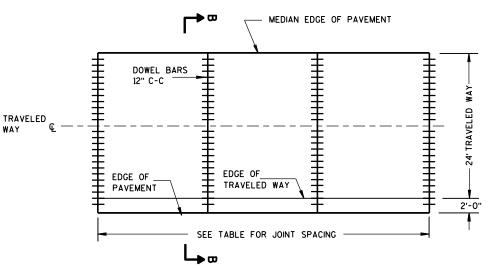
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CONTRACTION JOINT LAYOUT FOR TWO-LANE TWO-WAY HIGHWAY



PAVED

- 2'-0" PAVED

SHOULDER

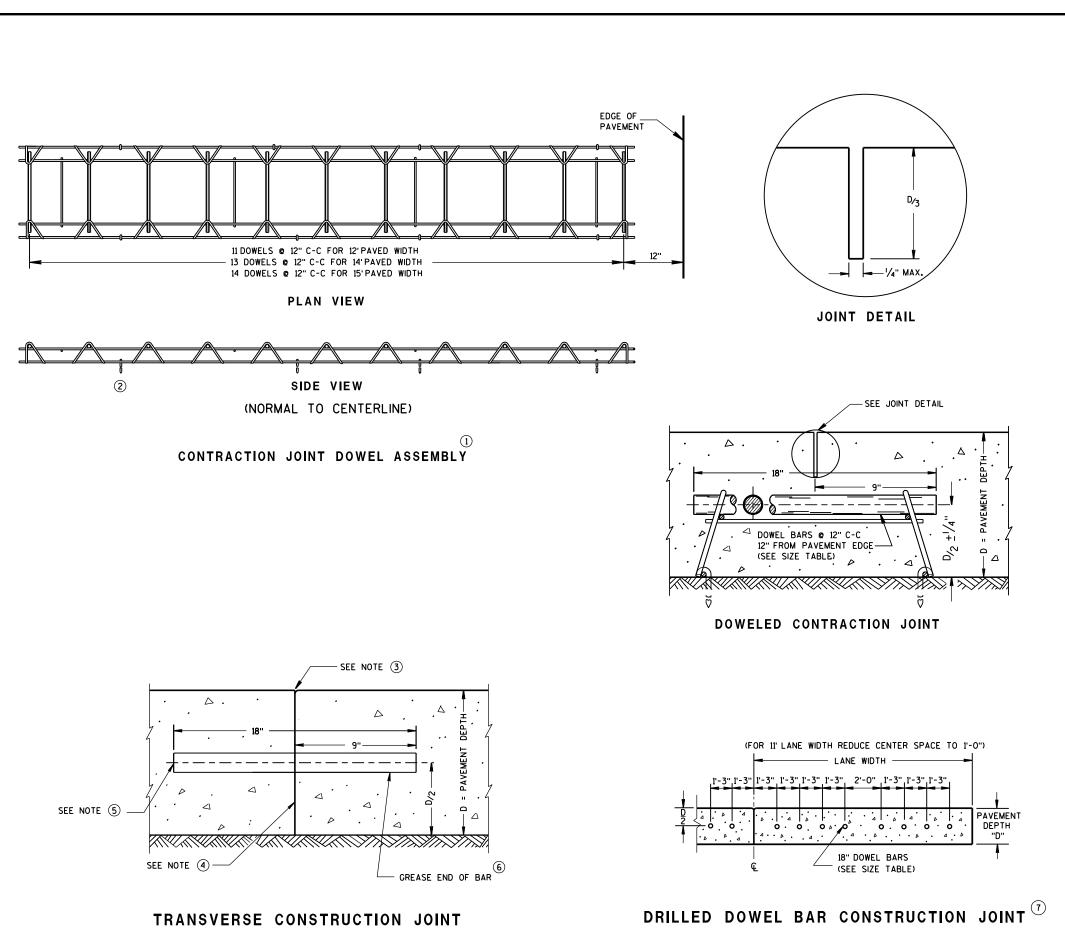
SHOULDER

CONTRACTION JOINT LAYOUT FOR DIVIDED HIGHWAY

RURAL DOWELED **CONCRETE PAVEMENT**

STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION 6

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GENERAL NOTES

- (1) OBTAIN THE ENGINEER'S APPROVAL FOR THE USE OF ALTERNATIVE DESIGNS OF THE DOWEL ASSEMBLY. USE MECHANICAL DOWEL BAR INSERTERS OR DOWEL ASSEMBLIES WHEN CONSTRUCTING CONTRACTION JOINTS.
- ② SECURE BASKETS WITH ANCHORS TO HOLD DOWEL BARS IN THE CORRECT POSITION AND ALIGNMENT. TYPE, LOCATION, NUMBER AND LENGTH OF ANCHORS ARE DEPENDENT UPON FIELD CONDITIONS.
- 3 FORM OR SAW CONSTRUCTION JOINTS. PROVIDE A 1/4-INCH RADIUS AT FORMED JOINTS.
- 4 PROVIDE A SMOOTH VERTICAL FACE FOR THE ENTIRE DEPTH OF THE PAVEMENT WHEN FORMING CONSTRUCTION JOINTS.
- (5) INSTALL DOWEL BARS AT CONSTRUCTION JOINTS BY FORMING OR DRILLING. INSTALL FORMED DOWEL BARS 12 INCHES C-C AND 12 INCHES FROM PAVEMENT EDGE. REMOVE EXCESS CONCRETE FROM THE FREE END OF THE DOWEL BAR IF DOWEL BARS ARE FORMED THROUGH A HEADER BOARD. INSTALL DRILLED DOWEL BARS ACCORDING TO DRILLED DOWEL BAR CONSTRUCTION JOINT DETAIL.
- (6) APPLY A THIN UNIFORM COATING OF SURFACE TREATMENT TO THE FREE END OF DOWEL BARS TO PREVENT BONDING.
- 7 ANCHOR DOWEL BARS INTO DRILLED HOLES WITH AN EPOXY. MAXIMUM DRILLED HOLE SIZE IS 1/8-INCH GREATER THAN DOWEL BAR DIAMETER, 9 INCHES IN LENGTH.

RURAL DOWELED CONCRETE PAVEMENT

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

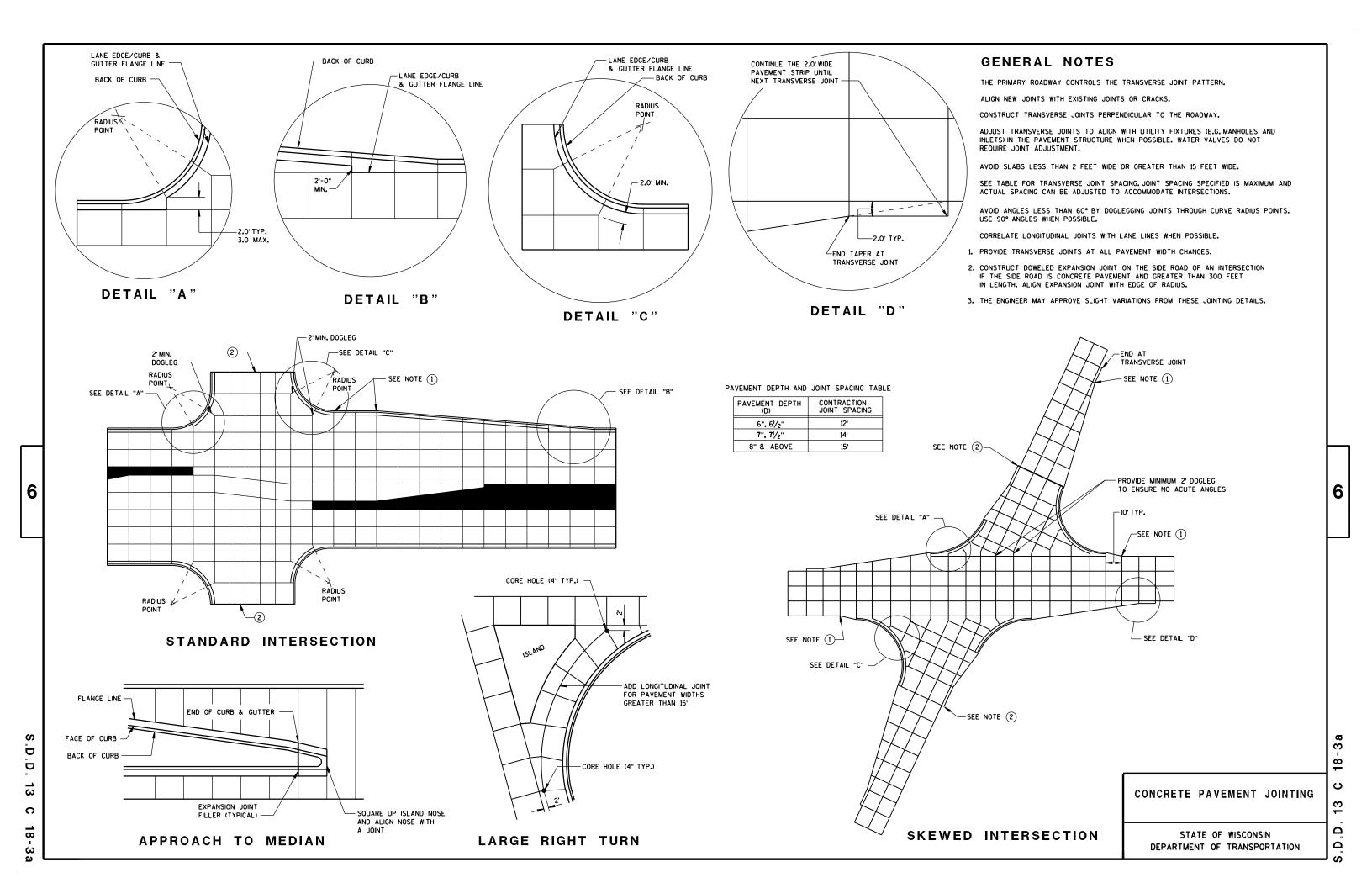
APPROVED

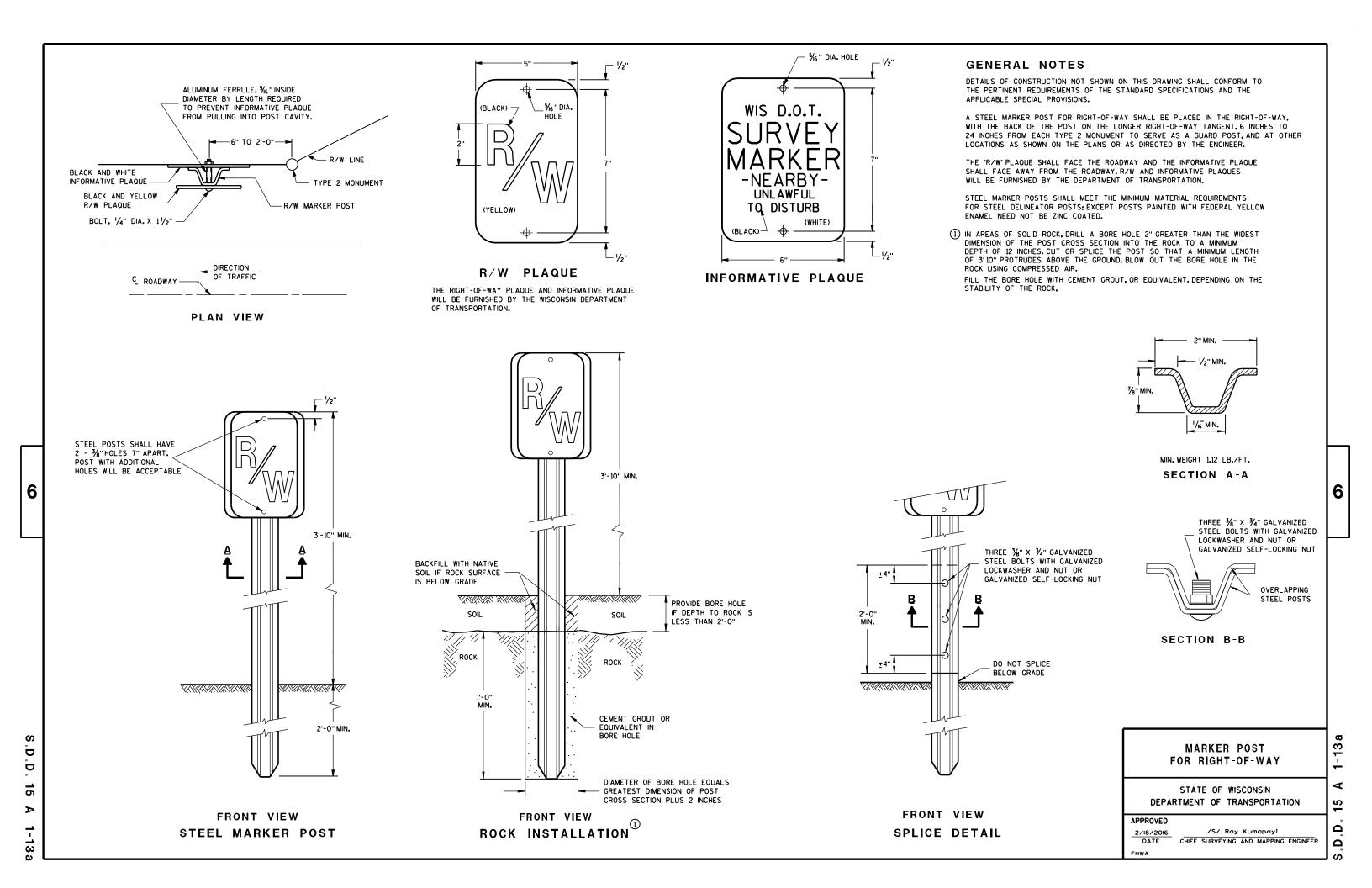
DATE PAVEMENT POLICY & DESIGN ENGINEER

FHWA

S.D.D. 13 C 11

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ROAD CLOSURE BARRICADE DETAIL

APPROACH VIEW



DETAIL E LANE CLOSURE BARRICADE DETAIL APPROACH VIEW

SEE SDD 15C2-SHEET "a" FOR LEGEND

GENERAL NOTES

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

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

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

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

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

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

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

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

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

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

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

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

BARRICADES AND SIGNS FOR MAINLINE CLOSURES

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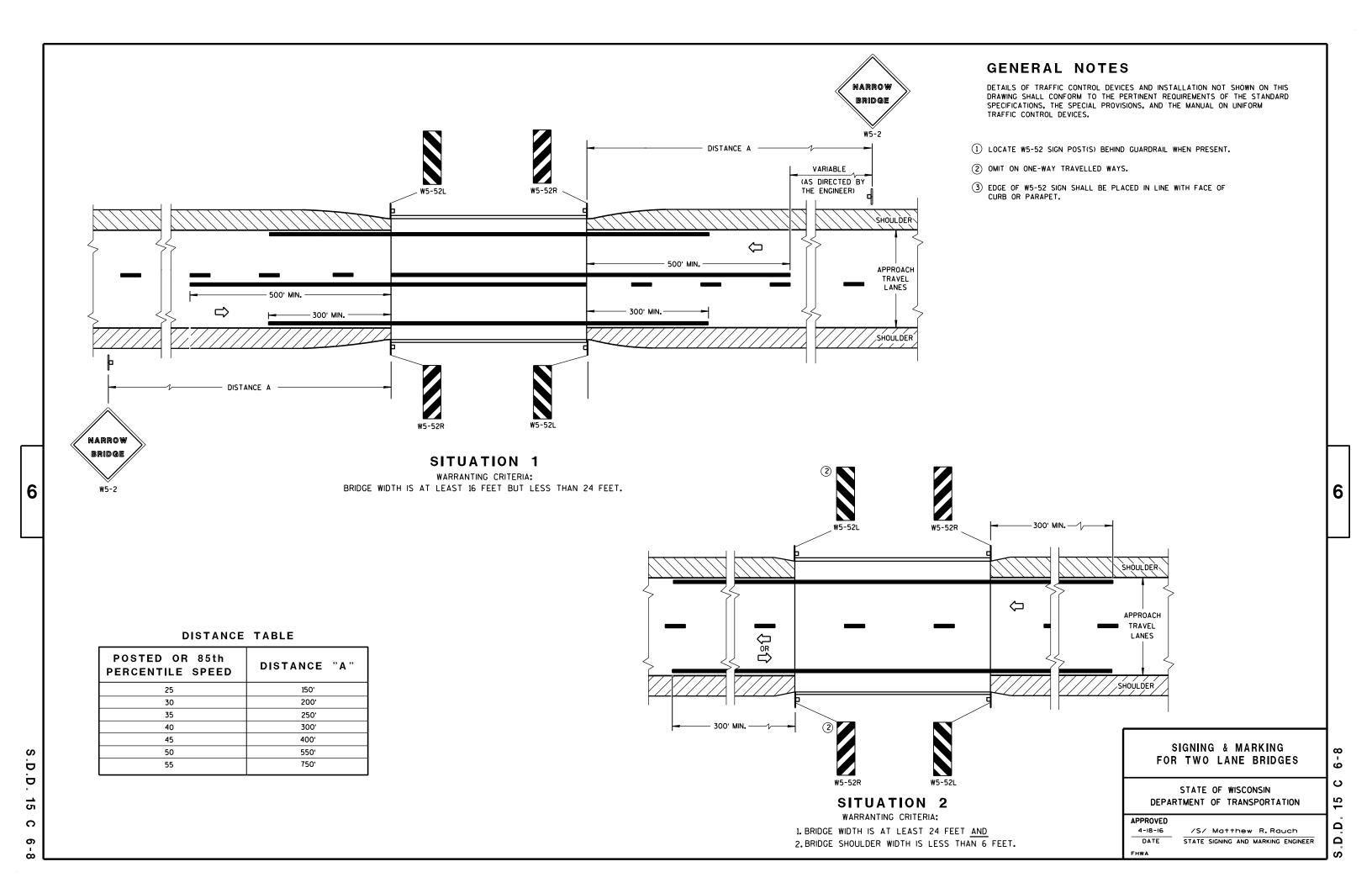
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STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION

/S/ Peter Amakobe Atepe

STATEWIDE WORK ZONE TRAFFIC SAFETY ENGINEER





URBAN ARFA



RURAL AREA (See Note 2)



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



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

White Edgeline Location

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

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

HWY:

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

PLOT BY : mscj9h

GENERAL NOTES

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

POST EMBEDMENT DEPTH

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

TYPICAL INSTALLATION OF PERMANENT TYPE II SIGNS ON SINGLE POSTS

WISCONSIN DEPT OF TRANSPORTATION

SHEET NO:

APPROVED

for State Traffic Engineer

DATE 7/23/15

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

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

PROJECT NO:

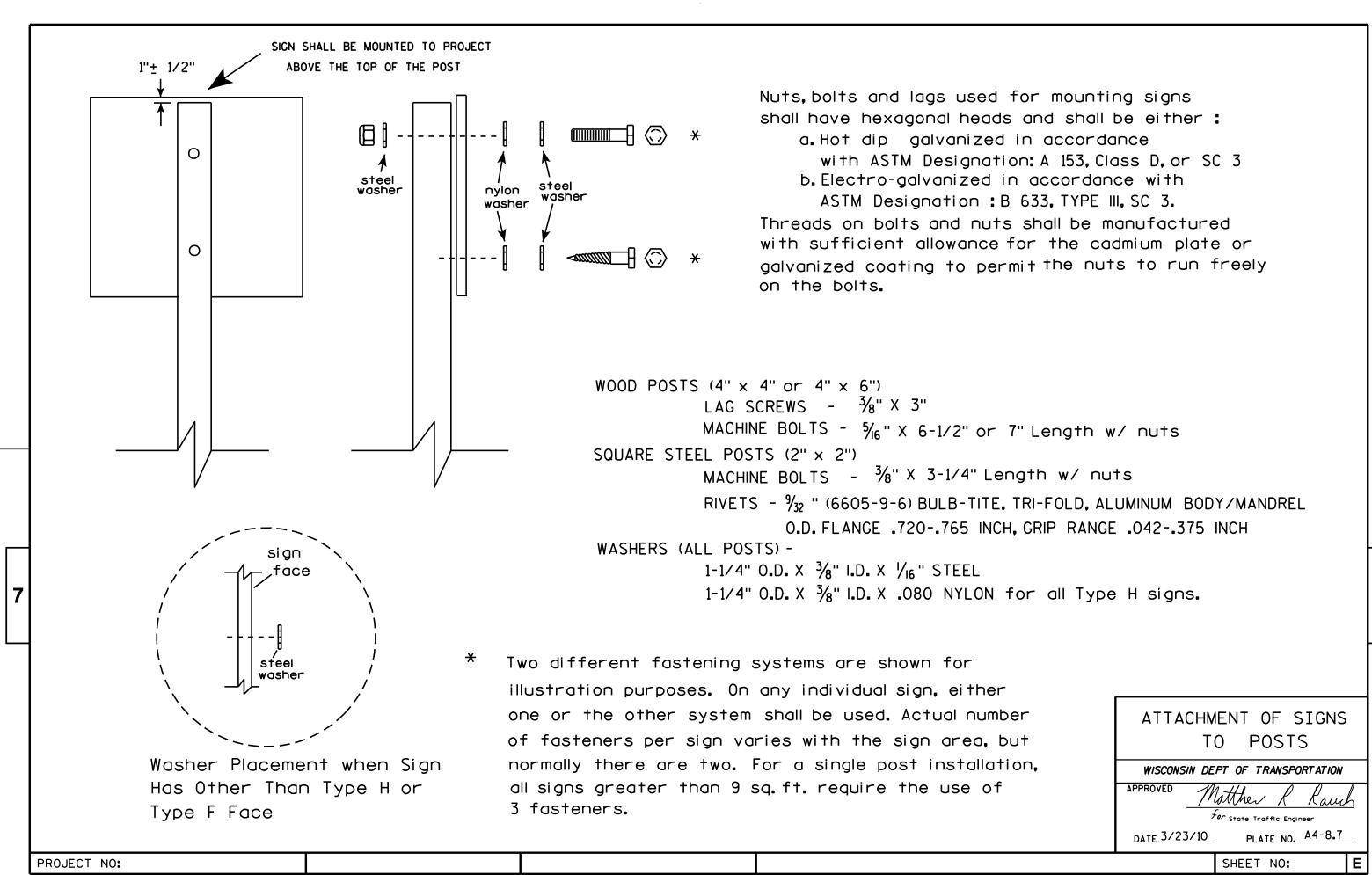
PLOT DATE: 23-JUL-2015 15:21

COUNTY:

PLOT NAME :

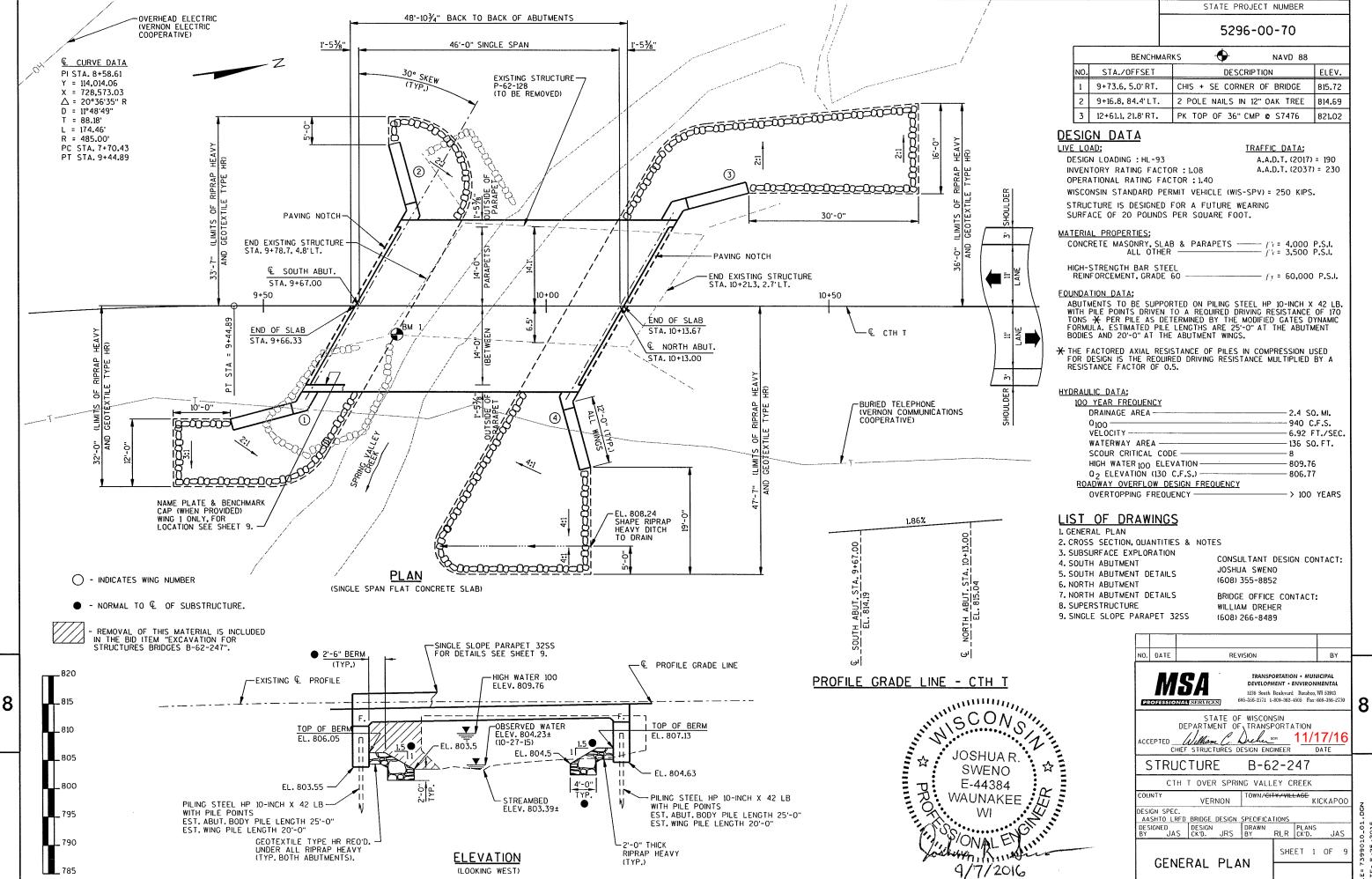
PLOT SCALE: 99.237937:1.000000

WISDOT/CADDS SHEET 42









5296-00-70

GENERAL NOTES

DRAWINGS SHALL NOT BE SCALED.

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

THE FIRST DIGIT OF A THREE DIGIT BAR MARK AND THE FIRST TWO DIGITS OF A FOUR DIGIT BAR MARK SIGNIFY THE BAR SIZE.

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

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

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

THIS STRUCTURE WILL REPLACE THE EXISTING STRUCTURE, P-62-128, A 42.6 FT. LONG, SINGLE SPAN STEEL DECK GIRDER ON FULL RETAINING TIMBER ABUTMENTS WITH 19.6 FT. CLEAR ROAD WIDTH.

(B)-BACKFILL PAY LIMITS, BACKFILL BEYOND BACKFILL PAY LIMITS SHALL BE INCIDENTAL TO EXCAVATION FOR STRUCTURES. LIMITS OF EXCAVATION SHALL BE DETERMINED BY THE CONTRACTOR.

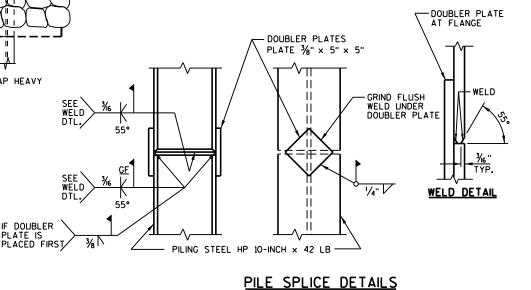
AT THE BACKFACE OF ABUTMENT ALL VOLUME WHICH CAN NOT BE PLACED BEFORE ABUTMENT CONSTRUCTION AND IS NOT OCCUPIED BY THE NEW STRUCTURE SHALL BE BACKFILLED WITH BACKFILL STRUCTURE TYPE A.

DO NOT PLACE FILL ABOVE 3'-O" FROM THE BOTTOM OF ABUTMENT UNTIL THE SUPERSTRUCTURE IS IN PLACE.

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

PIGMENTED SURFACE SEALER SHALL BE APPLIED TO THE INSIDE FACES, THE TOP FACES, AND THE VERTICAL ENDS OF THE PARAPETS.

ELEVATIONS SHOWN ON THIS PLAN ARE REFERENCED TO USGS NAVD 88 (2012 ADJUSTED). BENCHMARK REFERENCES AT THE PROJECT SITE WERE SET BY THE CONSULTANT USING GPS TECHNOLOGY.

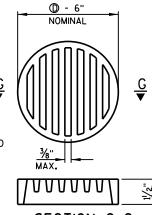


RODENT SHIELD NOTES:

ORIENT SHIELD SO SLOTS ARE VERTICAL.

THE RODENT SHELD SHALL BE A PVC GRATE SIMILAR TO THIS DETAIL. THE GRATE IS COMMERCIALLY AVAILABLE AS A FLOOR STRAINER. AS A FLOUR STRAIRER.

A PIPE COUPLING IS REQUIRED
FOR THE ATTACHEMENT OF
THIS SHIELD TO THE EXPOSED
END OF THE PIPE UNDERDRAIN.
THE SHIELD SHALL BE FASTENED
TO THE PIPE COUPLING WITH TWO OR MORE NO. 10 × 1-INCH STAINLESS STEEL SHEET METAL SCREWS. THE RODENT SHIELD, PIPE COUPLING AND SCREWS, SHALL BE INCLUDED IN THE BID ITEM "PIPE UNDERDRAIN WRAPPED 6-INCH".



SECTION G-G

RODENT SHIELD ① - DIMENSIONS ARE APPROXIMATE. THE GRATE IS SIZED TO FIT INTO A PIPE COUPLING.

& NOTES

TOTAL ESTIMATED QUANTITIES

<u>1'-5¾''</u>

SINGLE SLOPE -PARAPET 32SS

FOR DETAILS SEE SHEET 9

4" V-GROOVE.
EXTEND V-GROOVE
TO 6" FROM THE
FRONT FACE OF
THE ABUTMENT

DIAPHRAGM.

ITEM NUMBER	BID ITEM	UNIT	SOUTH ABUT.	NORTH ABUT.	SUPER	TOTAL
203.0600.S.01	REMOVING OLD STRUCTURE OVER WATERWAY WITH MINIMAL DEBRIS STATION 10+00	LS	-	-	-	1
206.1000.01	EXCAVATION FOR STRUCTURES BRIDGES B-62-247	LS	-	-	-	1
210.1500	BACKFILL STRUCTURE TYPE A	TON	270	260	-	530
502.0100	CONCRETE MASONRY BRIDGES	CY	48	47	130	225
502.3200	PROTECTIVE SURFACE TREATMENT	SY	28	29	148	205
502.3210	PIGMENTED SURFACE SEALER	SY	-	-	41	41
505.0400	BAR STEEL REINFORCEMENT HS STRUCTURES	LB	2710	2670	0	5380
505.0600	BAR STEEL REINFORCEMENT HS COATED STRUCTURES	LB	1985	1980	22875	26840
516.0500	RUBBERIZED MEMBRANE WATERPROOFING	SY	7	7	-	14
550.0500	PILE POINTS	EACH	7	7	-	14
550.1100	PILING STEEL HP 10-INCH X 42 LB	LF	165	165	-	330
606.0300	RIPRAP HEAVY	CY	75	145	-	220
612.0406	PIPE UNDERDRAIN WRAPPED 6-INCH	LF	90	90	-	180
	GEOTEXTILE TYPE HR	SY	150	270	-	420
	NON-BID ITEMS					
	PREFORMED FILLER	SIZE				1/2" & 3/4"

CROSS SECTION THRU BRIDGE

(LOOKING NORTH)

30'-103/4"

⊊ стнт

S.E. VARIES 4.20% TO 2.11%

14'-0"

2'-1" MIN.

SLAB

IN SPAN

14'-0"

POINT REFERRED TO ON PROFILE GRADE LINE

1 11 1

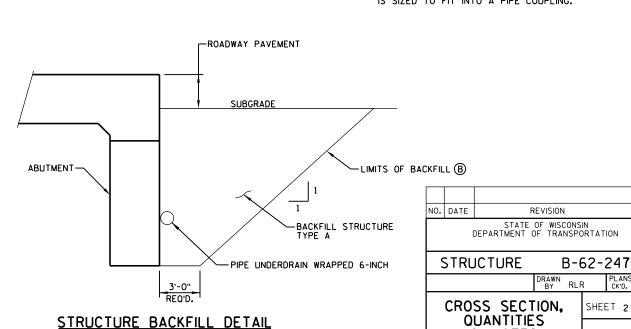
RIPRAP HEAVY

1 11 1

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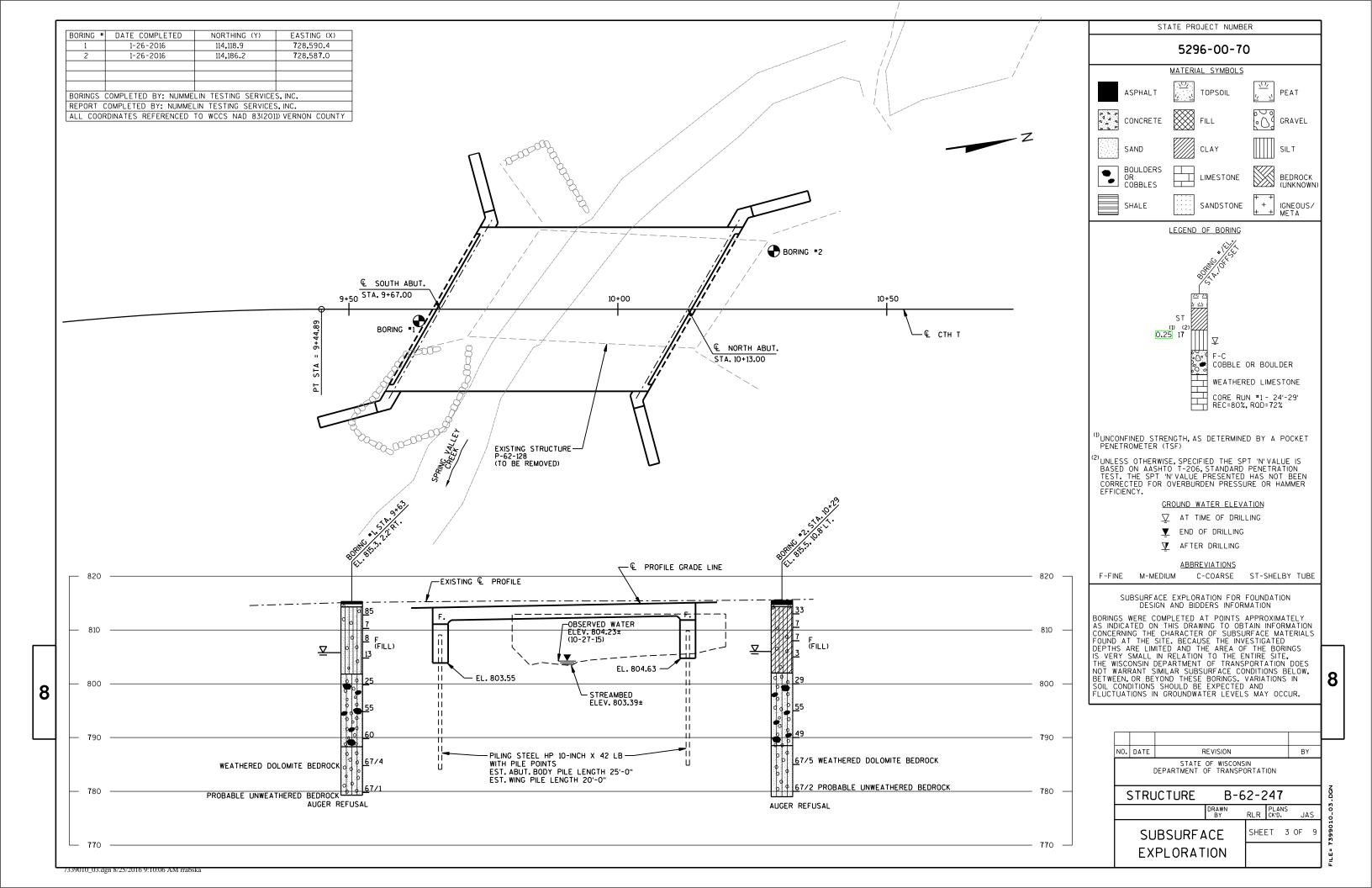
AT ABUTMENTS

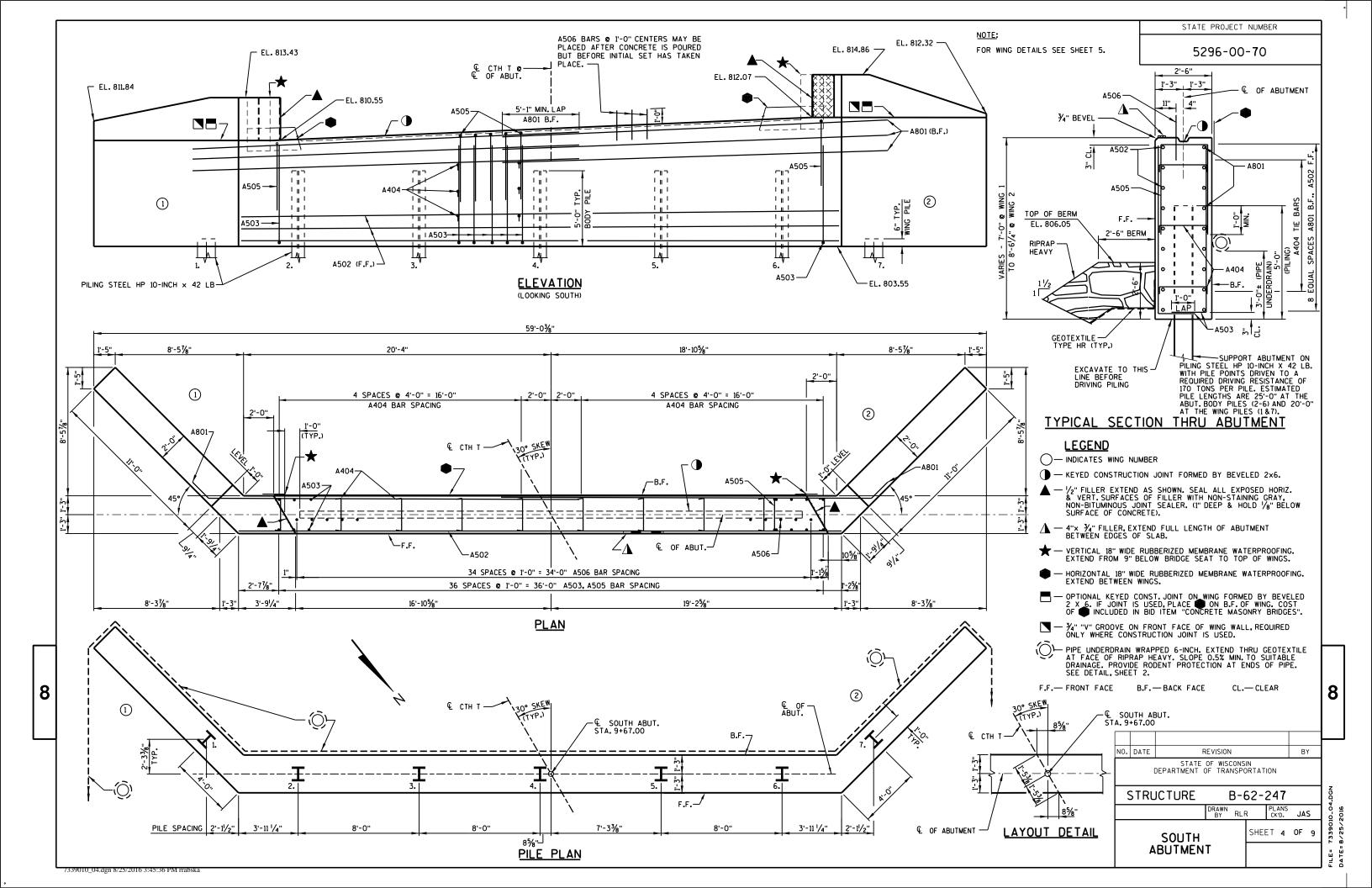
<u>1'-5%'</u>'

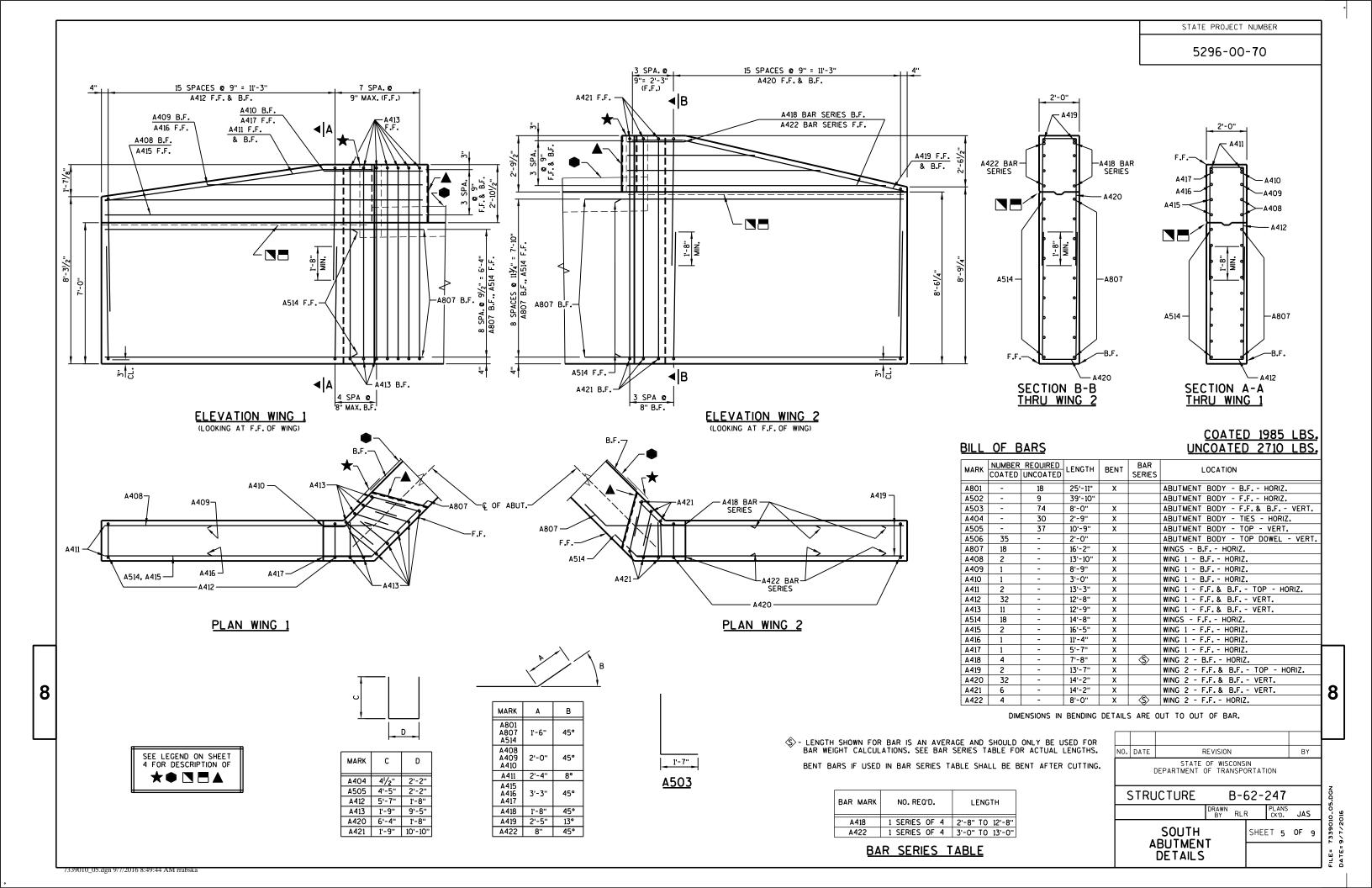


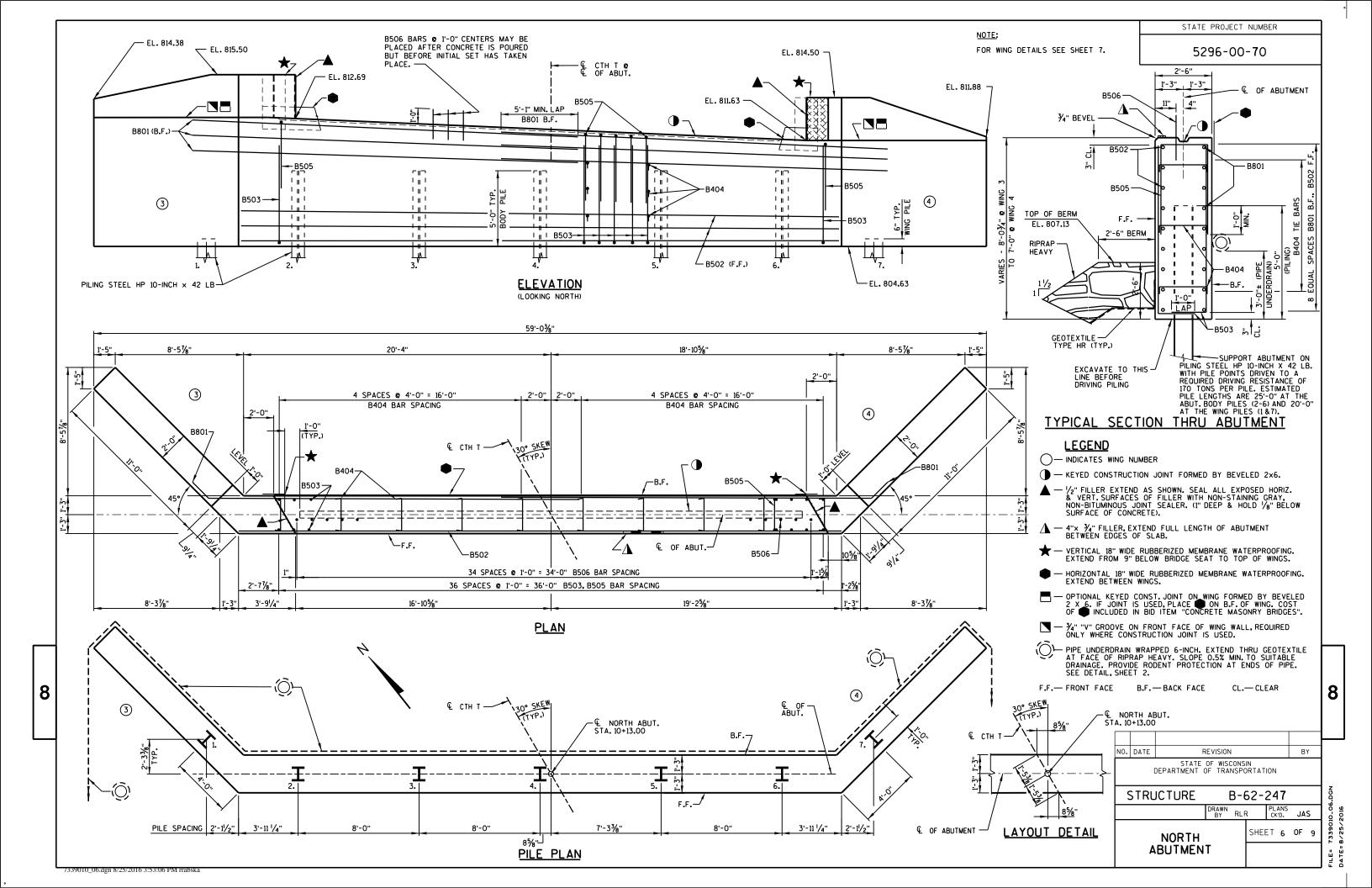
JAS

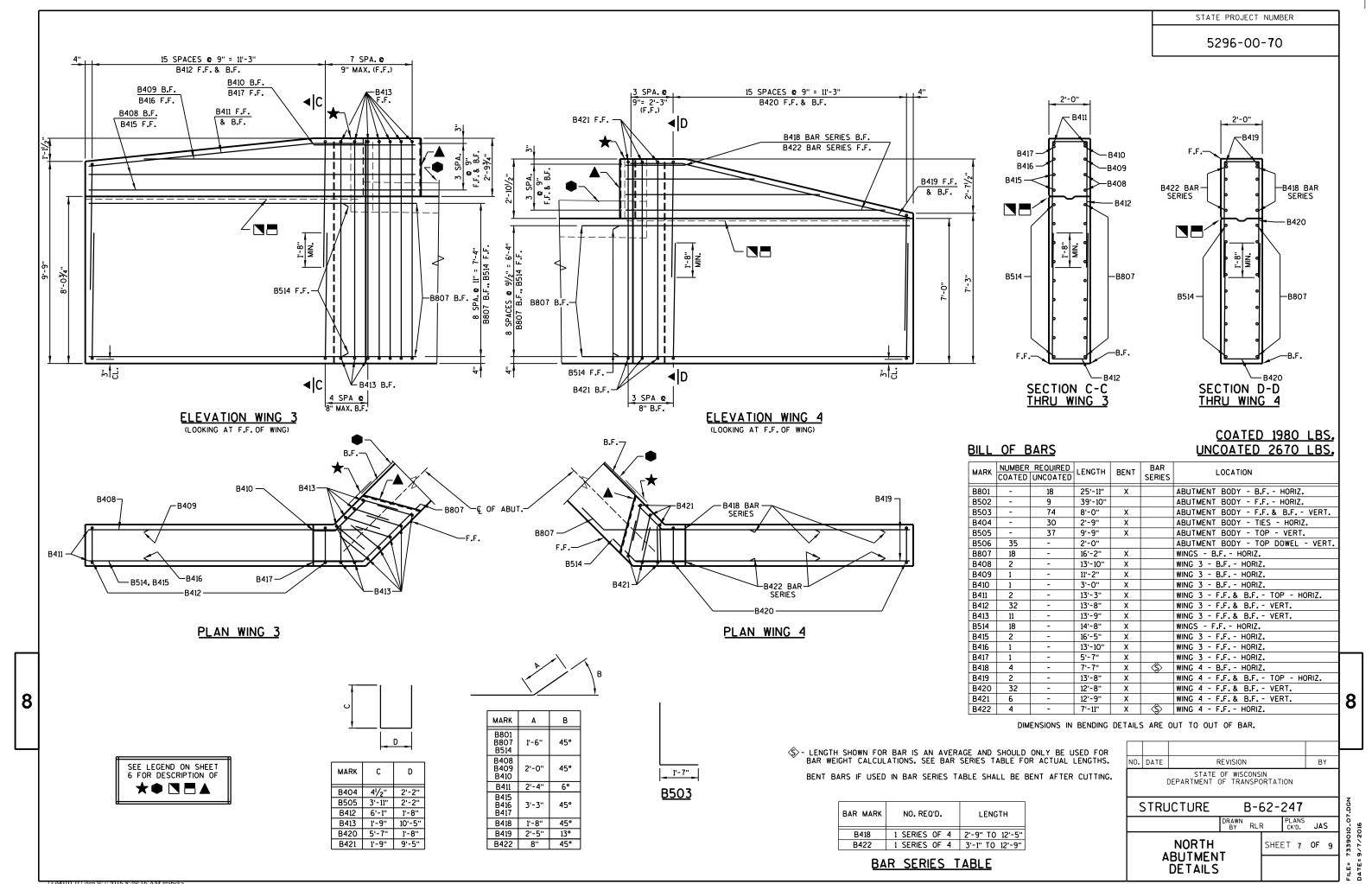
SHEET 2 OF

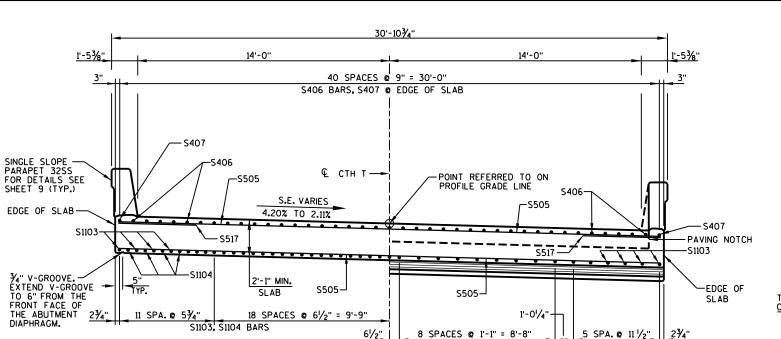












IN SPAN

AT ABUTMENTS

S1103 BARS

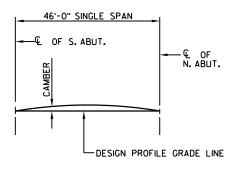
CROSS SECTION THRU BRIDGE

(LOOKING NORTH)

SUPERELEVATION TABLE

LOCATION	CROSS SLOPE (%)		
STA. 9+03.55	+ 6.00		
STA. 9+67.00	+ 3.91		
STA. 10+13.00	+ 2.40		
STA. 10+25.00	+ 2.00		

A POSITIVE SIGN INDICATES A CROSS SLOPE DOWN TO THE RIGHT (LOOKING UPSTATION).



CAMBER DIAGRAM

CAMBER SPANS AS SHOWN ABOVE AND IN THE TABLE OF VALUES TO PROVIDE FOR DEAD LOAD DEFLECTION AND FUTURE CREEP. CAMBER DOES NOT INCLUDE ALLOWANCE FOR FORM SETTLEMENT. DEAD LOAD DEFLECTION APPROXIMATES 1/3 OF CAMBER VALUES SHOWN.

TO DETERMINE FALSEWORK ELEVATION AT EDGE OF SLAB, CROWN OR REFERENCE LINE, FOLLOW THIS PROCEDURE:

TOP OF SLAB ELEVATION AT FINAL GRADE

- SLAB THICKNESS
- + CAMBER
- + FORM SETTLEMENT/DEFLECTION DUE TO PLACEMENT OF SLAB CONCRETE (TO BE COMPUTED BY THE CONTRACTOR)
- = TOP OF SLAB FALSEWORK ELEVATION

GENERAL NOTES

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

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

STATE PROJECT NUMBER

5296-00-70

ALL TRANSVERSE BAR STEEL REINFORCEMENT SHALL BE PLACED ON THE SKEW.

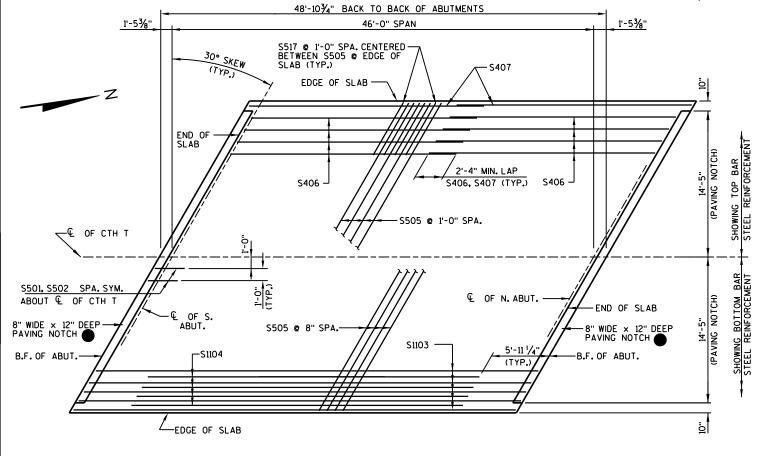
SURVEY TOP OF SLAB ELEVATIONS

		EAST	C/L	WEST
		SLAB	CTH T	SLAB
LOCATION	SPAN POINT	EDGE		EDGE
SOUTH ABUT.	1.0			
	1.5			
NORTH ABUT.	2.0			

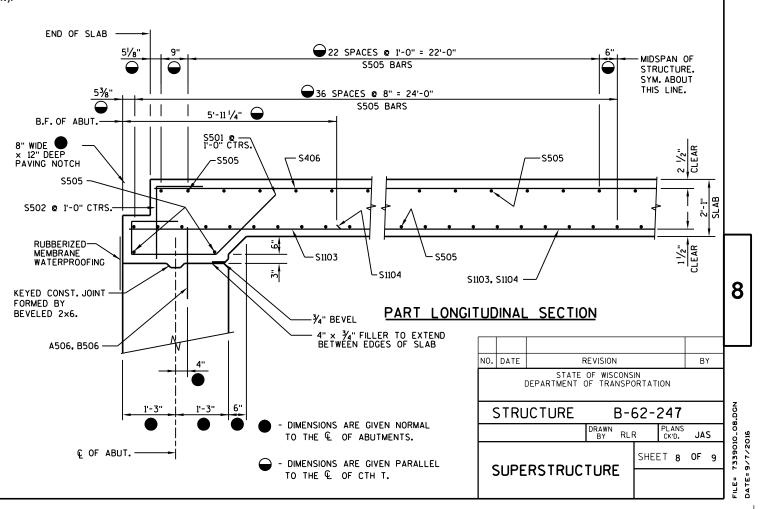
PRIOR TO RELEASING SLAB FALSEWORK, TAKE TOP OF SLAB ELEVATIONS AT THE & OF ABUTMENTS AND AT THE 0.5 PTS. TO VERIFY CAMBER. TAKE ELEVATIONS ALONG EDGE OF SLAB AND CROWN OR & RECORD THE ELEVATIONS IN THE ABOVE TABLE FOR THE "AS BUILT" PLANS.

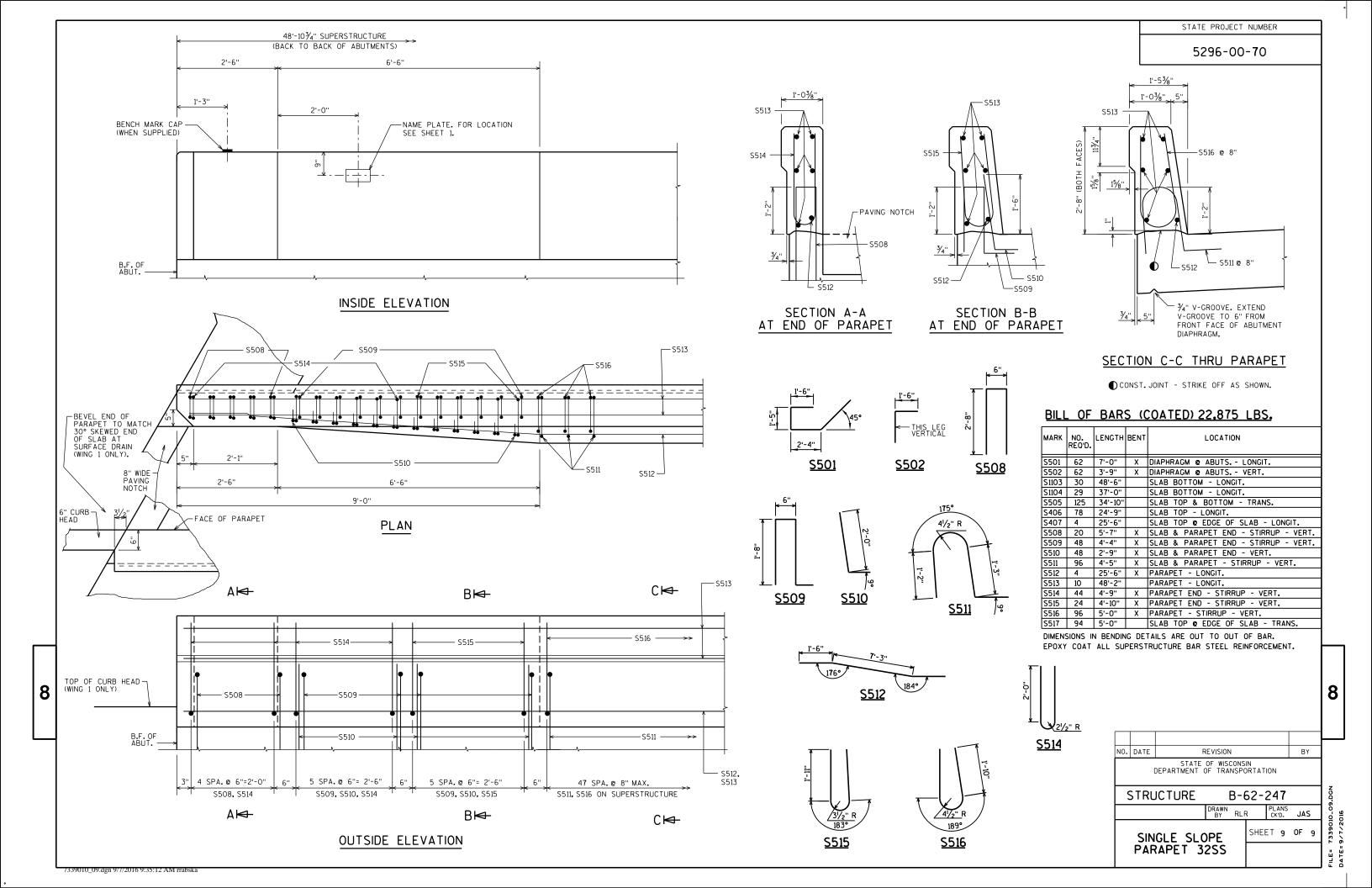
TOP OF SLAB ELEVATIONS AND CAMBER VALUES

		EAST	C/L	WEST	CAMBER
	SPAN	SLAB	CTH T	SLAB	VALUE
LOCATION	POINT	EDGE		EDGE	(INCHES)
SOUTH ABUT.	1.0	813.43	814.19	814.86	0.00
	1.1	813.54	814.27	814.92	0.58
	1.2	813.65	814.36	814.98	1.10
	1.3	813.75	814.44	815.05	1.50
	1.4	813.86	814.53	815.11	1.76
	1.5	813.97	814.61	815.18	1.85
	1.6	814.07	814.70	815.24	1.76
	1.7	814.18	814.78	815.31	1.50
	1.8	814.29	814.87	815.37	1.10
	1.9	814.39	814.95	815.43	0.58
NORTH ABUT.	2.0	814.50	815.04	815.50	0.00



PLAN





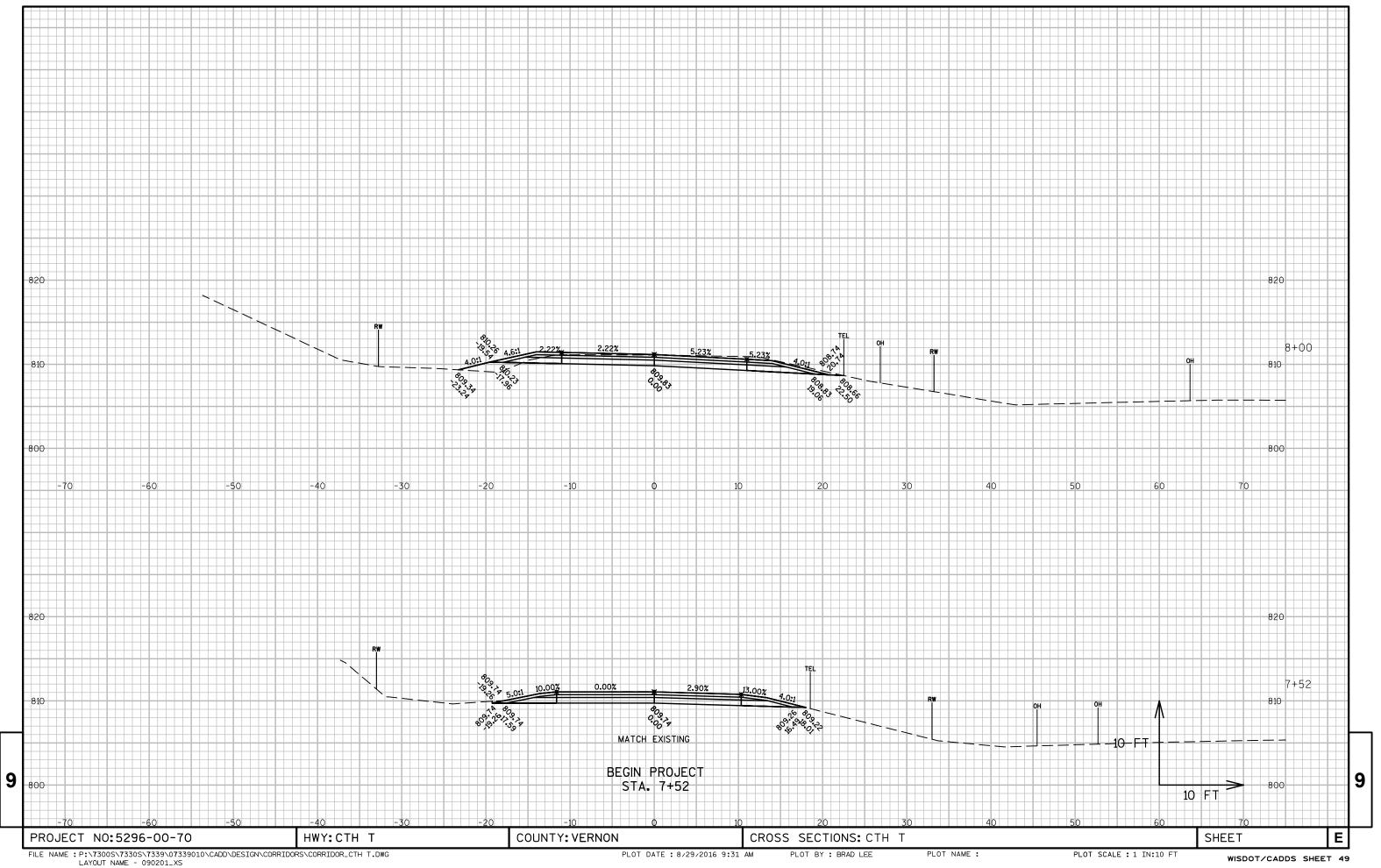
PROJECT I.D. 5296-00-70 EARTHWORK SUMMARY

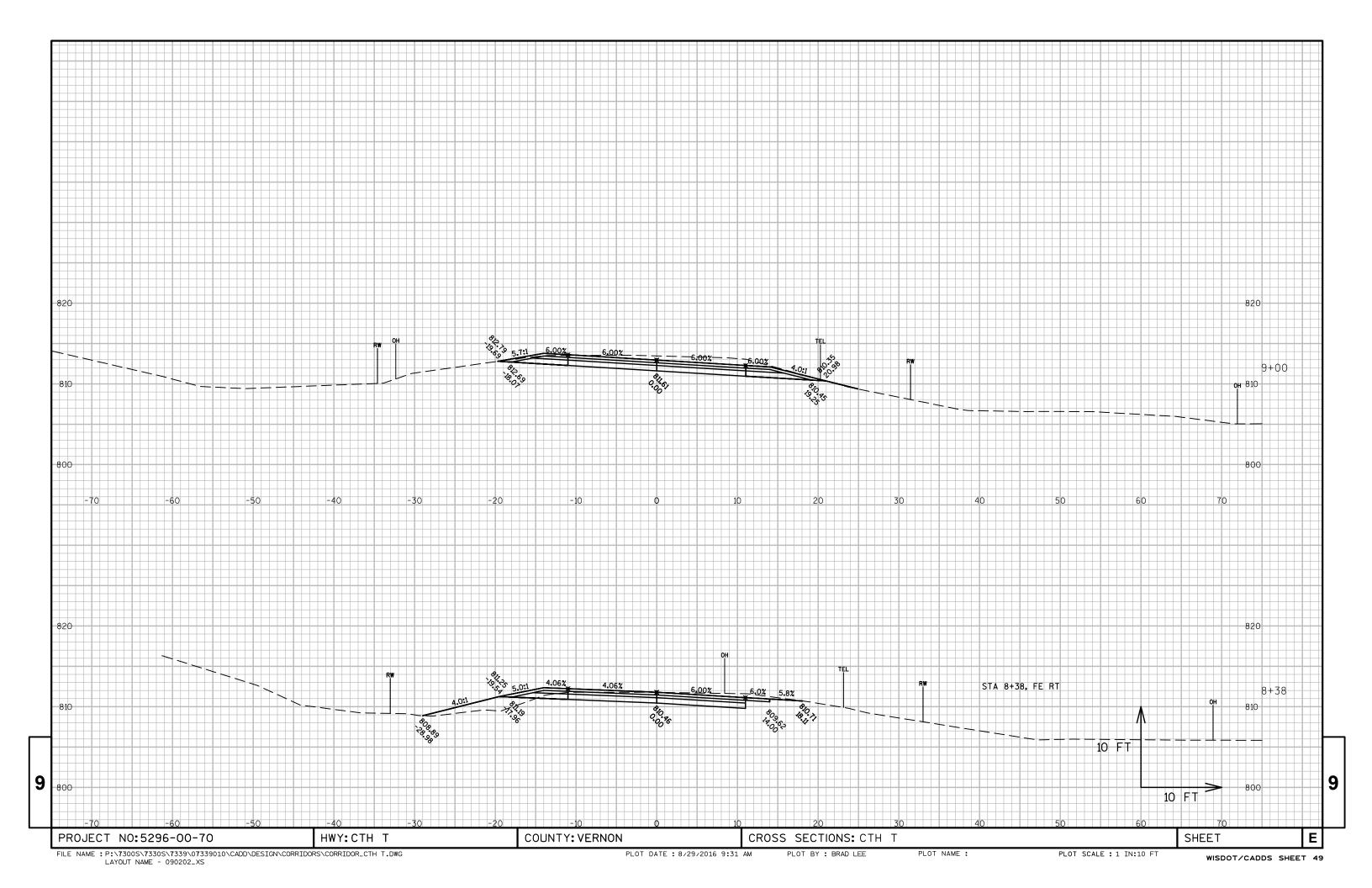
	EXCAVATION COMMON	EXCAVATION ROCK	FILL (1)	EXPANDED FILL (2)	WASTE	BORROW
STA	CY	CY	CY	CY	CY	CY
7+52.00						
	78	0	5	7	71	-71
8+00.00						
	59	0	12	16	43	-43
8+38.00						
	110	0	14	18	92	-92
9+00.00						
	99	0	33	43	56	-56
9+40.00						
	73	0	42	55	18	-18
9+65.56						
	STRU	JCTURE B-62-0247				
10+14.44						
	54	0	93	121	-67	67
10+45.00						
	52	0	66	86	-34	34
10+75.00						
	41	0	17	22	19	-19
11+00.00						
SUBTOTALS						
SOUTH APPROACH	419	0	106	139	280	-280
NORTH APPROACH	147	0	176	229	-82	82
					·	
UNUSABLE PAVEMENT (3)						121
TOTALS	566	0	282	368	198	-77

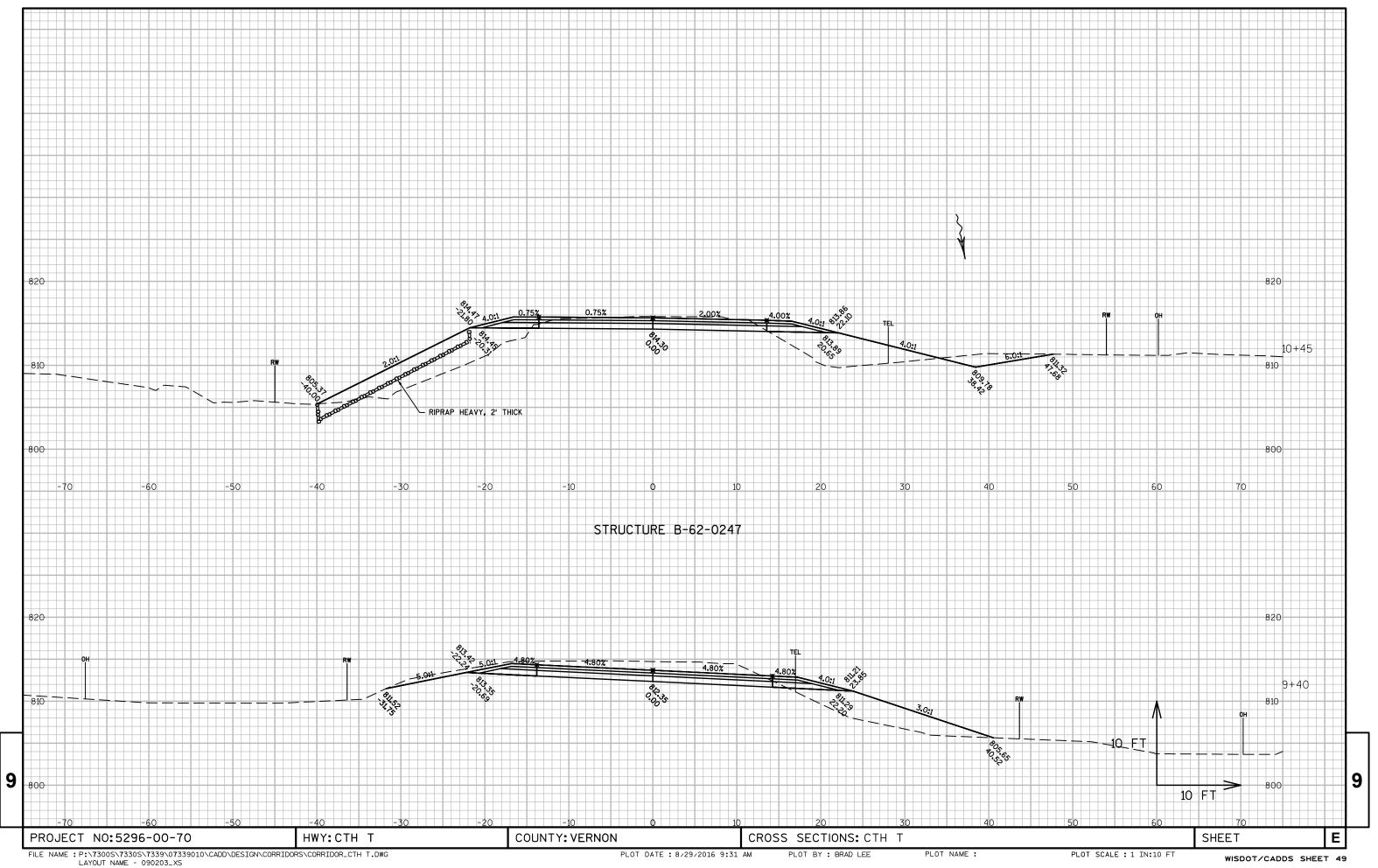
(1) - NOT A BID ITEM - FOR INFORMATIONAL PURPOSES ONLY.

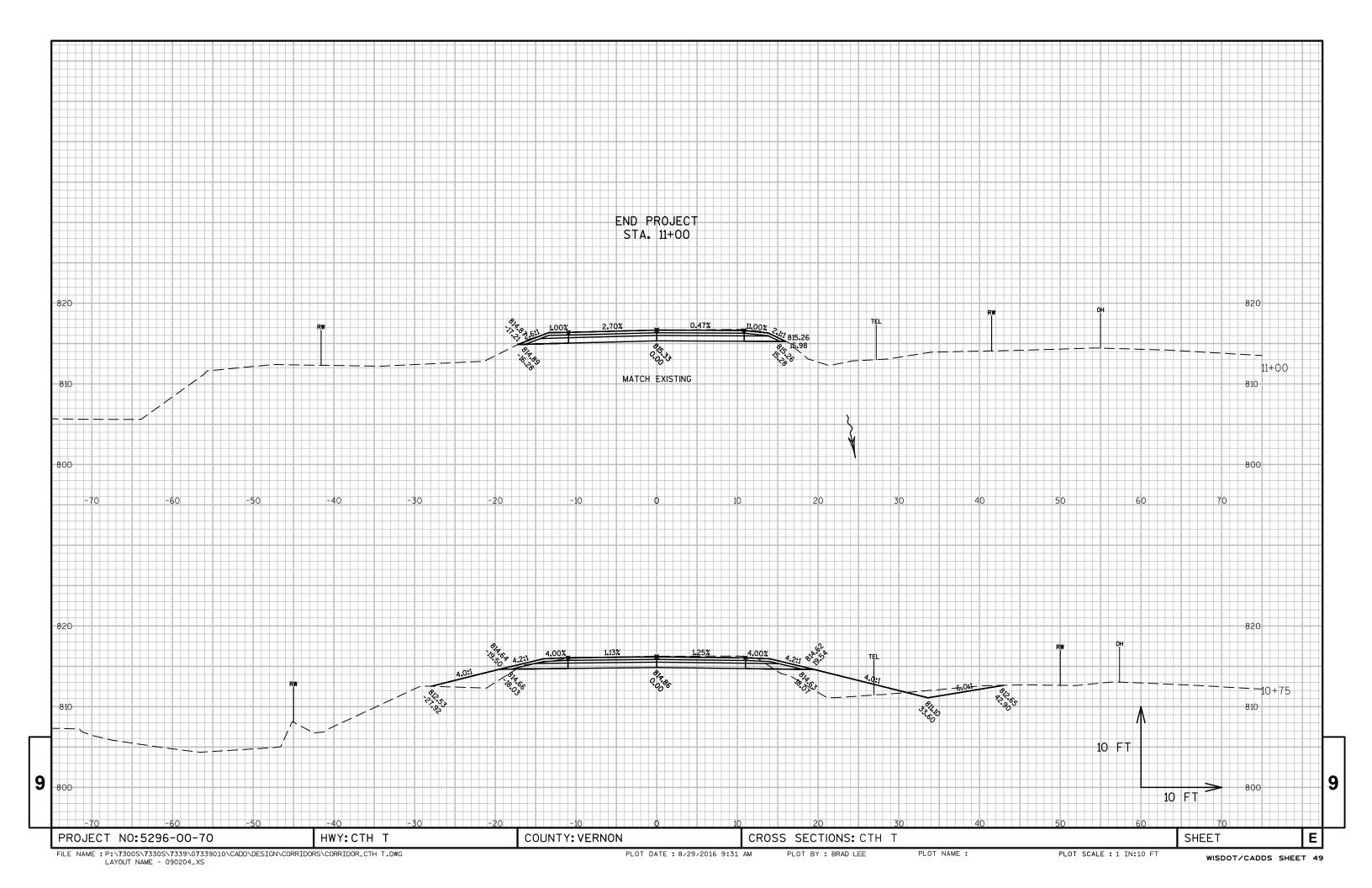
(2) - FILL EXPANSION 30% (3) - EXISTING PAVEMENT BASED ON AVE THK OF 5" AT THE S. APPR & 9" AT THE N. APPR OF ASPHALT PER BORING LOG.

HWY: CTH T COUNTY: VERNON **EARTHWORK** SHEET PROJECT NO: 5296-00-70 PLOT NAME :











Wisconsin Department of Transportation

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