SWL FEBRUARY 2015 STATE OF WISCONSIN ORDER OF SHEETS Section No. 1 DEPARTMENT OF TRANSPORTATION Seotion No. 2 Typical Sections and Details Section No. 3 Estimate of Quantities Miscellaneous Quantitles PLAN OF PROPOSED IMPROVEMENT Section No. 4 Right of Way Plat Seofion No. 5 Plan and Profile (includes erosion control plans) Standard Detail Drawings Section No. 6 STH 16 - SPARTA Seotion No. 7 Sian Plates Structure Plans Seotion No. 8 Computer Earthwork Data Seotion No. 9 (BIG CREEK BRIDGE B-41-0297) Section No. 9 Cross Sections **CTH BC** TOTAL SHEETS = 50 **MONROE COUNTY** PROJECT LOCATION STATE PROJECT NUMBER 5019-00-70 R-5-W R-4-W eather Ave Fąctory A√e STRUCTURE B-41-0297 **END PROJECT** STA 10+00 STA 11+40 DESIGN DESIGNATION В A.A.D.T. 2015 = 670 T-18-N 2035 = 900 A.A.D.T. **BEGIN PROJECT** D.H.V. = 89 eav STA 8+50 D.D. = 50/50 T-17-W = 5 X Y = 390924.844 X = 604325.151 DESIGN SPEED = 40 MPH = 47,450 Galaxy Av CONVENTIONAL SYMBOLS **PROFILE** CORPORATE LIMITS GRADE LINE PROPERTY LINE MARSH OR ROCK PROFILE LOT LINE (To be noted as such) LIMITED HIGHWAY EASEMENT SPECIAL DITCH Garden Ave EXISTING RIGHT OF WAY GRADE ELEVATION PROPOSED OR NEW R/W LINE CULVERT (Profile View) Sparta SLOPE INTERCEPT UTILITIES REFERENCE LINE ELECTRIC EXISTING CULVERT FIBER OPTIC PROPOSED CULVERT (Box or Pipe) SANITARY SEWER COMBUSTIBLE FLUIDS LAYOUT STORM SEWER TELEPHONE COORDINATES ON THIS PLAN ARE REFERENCED TO THE WISCONSIN COUNTY COORDINATE SYSTEM, MONROE COUNTY WATER MARSH AREA UTILITY PEDESTAL TOTAL NET LENGTH OF CENTERLINE = 0.055 MI

FEDERAL PROJECT STATE PROJECT PROJECT CONTRACT 5019-00-70 WISC 2015003

ACCEPTED FOR

COUNTY

MONROE

ORIGINAL PLANS PREPARED BY



STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION

PREPARED BY

Surveyor Designer

SEH

KJOHNSON ENGINEERS

WOODED OR SHRUB AREA

POWER POLE

TELEPHONE POLE

PLOT NAME :

STANDARD ABBREVIATIONS

GENERAL NOTES

ACRE AGGREGATE AC AGG

APRON ENDWALL FOR CULVERT AECPRC

PIPE ASPH REINFORCED CONCRETE ASPHALTIC

AVG AVERAGE ADT AVERAGE DAILY TRAFFIC BACK FACE

RM BENCH MARK BR BRIDGE CE COMMERCIAL ENTRANCE CL OR C/L OR & CENTER LINE

CENTRAL ANGLE OR DELTA CONC CONCRETE CULVERT PIPE REINFORCED CONCRETE CPRC CULVERT PIPE REINFORCED CONCRETE

CPRCHE HORIZONTAL ELLIPTICAL

CB CREEK CUBIC YARD CY C&G CURB AND GUTTER DEGREE OF CURVED HV DESIGN HOUR VOLUME DISCH DISCHARGE DITCH GRADE

DWY DRIVEWAY ST GRID COORDINATE XFΑ STEEL PLATE BEAM GUARD EAT ENERGY ABSORBING TERMINAL

EOR END POINT OF RADIUS ELEVATION

ESALS EQUIVALENT SINGLE AXLE LOADS EXC **EXCAVATION** EXCAVATION BELOW SUBGRADE EBS

EXIST EXISTING FACE OF CURB FC EACE TO EACE FF FERTILIZE FERT FIELD ENTRANCE FL F0 FLOW LINE FIBER OPTIC CWT HUNDREDWEIGHT HYD **HYDRANT** ID

INSIDE DIAMETER ΪΝV INVERT IRON PIPE ON PIN LHF LEFT-HAND FORWARD LENGTH OF CURVE LINEAR FOOT

LC LONG CHORD OF CURVE LS LUMP SUM MANHOLE MH MID POINT OF RADIUS MOR

NC NORMAL CROWN NΩ NUMBER OBLITERATE OBLIT PAVT PRIVATE ENTRANCE

PE PVRC POINT OF VERTICAL REVERSE CURVE QOR QUARTER POINT OF RADIUS

RADIUS REQID REQUIRED

RESIDENCE OR RESIDENTIAL RES LRHF RIGHT-HAND FORWARD

R/W RIGHT-OF-WAY RIVFR RDWY ROADWAY REFERENCE LINE R/L OR R SALV SALVAGED SAN SANITARY SEWER SF SQUARE FEET

SY SOLIARE YARD STANDARD DETAIL DRAWINGS STA STATION

SS SSPRC STORM SEWER

STORM SEWER PIPE REINFORCED CONCRETE SUPERELEVATION RATE

TOP OF CURB T OR TN TOWN TRUCKS (PERCENT OF)

TYP **TYPICAL** VΔR VARIARI F VERTICAL CURVE YNORTH GRID COORDINATE YARD

ELEVATIONS SHOWN ON THE PLAN ARE REFERENCED TO THE APPROXIMATE USGS DATUM.

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

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

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

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

DISTURBED AREAS WITHIN THE RIGHT-OF-WAY, EXCEPT THE AREAS WITHIN THE FINISHED SHOULDER POINTS, ARE TO BE 4-INCH TOPSOILED, FERTILIZED, AND SEEDED. AND MULCHED.

ALL CURB AND GUTTER RADII, PAVEMENT DIMENSIONS AND STATIONS ARE SHOWN TO THE EDGE OF PAVEMENT UNLESS NOTED OTHERWISE.

A VERTICAL SAWCUT SHALL BE MADE THROUGH EXISTING DRIVEWAYS AND PAVEMENTS AT REMOVAL LIMITS, REMOVAL LIMITS WILL BE DETERMINED BY THE ENGINEER.

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 OR ROCK EXCAVATION.

MILL TO MATCH PROPOSED CROSS SLOPE AND SUPER ELEVATION

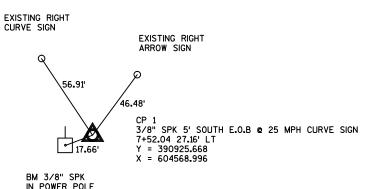
THE LOCATION OF GUARDRAIL WILL BE DETERMINED BY THE ENGINEER

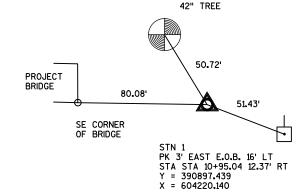
WISDOT MONUMENTS WILL BE SUPPLIED BY THE STATE AND INSTALLED BY THE CONTRACTOR AS DIRECTED BY THE ENGINEER.

BEARINGS SHOWN ON THE PLAN ARE REFERENCED TO THE EXISTING ROADWAY CENTERLINE AND ARE ASSUMED.

4-INCH ASPHALTIC SURFACE CONSTRUCTED IN TWO 2-INCH LIFTS WITH 12.5-MM NOMINAL AGGREGATE SIZE AND PG58-28 BINDER.

WETLANDS ARE PRESENT IN THE PROJECT AREA BETWEEN STA 9+50 TO STA 10+50. THE CONTRACTOR MUST KEEP ALL MOTORIZED EQUIPMENT INSIDE THE SLOPE INTERCEPTS TO INSURE THAT THE WETLANDS REMAIN UNDISTURBED.





BM 2

3/8" SPK

ALIGNMENT CONTROLS

UTILITY CONTACTS

CENTURYLINK P.O. BOX 256 311 SOUTH COURT STREET SPARTA, WI 54656 TELEPHONE: 608.269.0819 ATTENTION: BRET CLARK
EMAIL: BRET.CLARK@CENTURYLINK.COM

XCEL ENERGY 1003 SOUTH BLACK RIVER STREET SPARTA, WI 54656 TELEPHONE: 608.789.3677 EXT. 14 ATTENTION: KAYE CROOK EMAIL: KAYE.M.CROOK@XCELENERGY.COM

TO OBTAIN LOCATION OF PARTICIPANTS' UNDERGROUND FACILITIES BEFORE YOU DIG IN WISCONSIN



NOTE: WIS. STATUTE 182.0175 (1974) REQUIRES MIN. OF 3 WORK DAYS NOTICE BEFORE YOU EXCAVATE.

**NOT A MEMBER OF DIGGERS HOTLINE

MUNICIPALITY CONTACT

MONROE COUNTY HIGHWAY COMMISSIONER 803 WASHINGTON STREET SPARTA, WI 54656 TELEPHONE: 608.685.6226 ATTENTION: JACK DITTMAR EMAIL: JACK.DITTMAR@CO.MONROE.WI.US

DESIGN CONTACT

10 NORTH BRIDGE STREET CHIPPEWA FALLS, WI 54729 TELEPHONE: 715.720.6267 ATTENTION: DAN GUSTAFSON EMAIL: DGUSTAFSON@SEHINC.COM

DNR CONTACT

KAREN KALVELAGE 3550 MORMON COULEE ROAD LA CROSSE, WI 54601 TELEPHONE: 608.785.9115 EMAIL: KAREN.KALVELAGE@WISCONSIN.GOV

PROJECT NO: 5019-00-70

HWY: CTH BC

COUNTY: MONROE

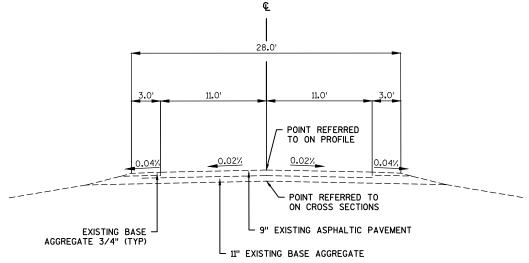
GENERAL NOTES

PLOT NAME :

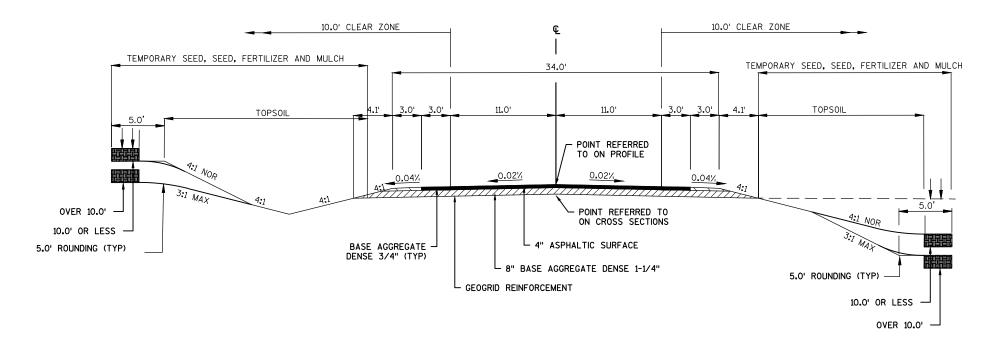
SHEET

F





TYPICAL EXISTING SECTION STA 8+50 TO STA 11+40



SUPERELEVATION TABLE

STATION	DESCRIPTION	LEFT SHOULDER	LEFT LANE	RIGHT LANE	RIGHT SHOULDER
8+50.00'	BEGIN PPROJECT	-4.00%	-0.64%	-2.84%	-4.00%
9+80.00'	BEGIN BRIDGE	2.63%	2.63%	-2.63%	-4.00%
10+20.00	END BRIDGE	2.63%	2.63%	-2.63%	-4.00%
10+33.02	REVERSE CROWN	2.00%	2.00%	-2.00%	-4.00%
10+74.35	LEVEL CROWN	0.00%	0.00%	-2.00%	-4.00%
11+15.68	BEGIN NORMAL SHOULDER	-4.00%	-2.00%	-2.00%	-4.00%
11+15.68	BEGIN NORMAL CROWN	-4.00%	-2.00%	-2.00%	-4.00%
11+40.00'	END PROJECT	-4.00%	-2.00%	-2.00%	-4.00%
	Later of a later to the said				
NORMAL C	ROWN RATE = 0.020				

TYPICAL FINISHED SECTION STA 8+50 TO STA 9+78.75 STA 10+21.25 TO STA 11+40

NORMAL CROWN RATE = 0.020 SHOULDER NORMAL CROWN SUPERELEVATION RATE = 0.040

PROJECT NO:5019-00-70 HWY: CTH BC COUNTY: MONROE TYPICAL SECTIONS SHEET PLOT NAME :

2

2

ALIGNMENT DATA

			ALIGNME
Tangent Data			
Description	PT Station	Northing	Easting
Start:	5+21.782	390663.925	604163.662
End:	6+92.153	390827.423	604211.564
Tangent Data			
Parameter	Value	Parameter	Value
Length:	170.372	Course:	N 16° 19' 47.1820" E
Curve Point Data			
Description	Station	Northing	Easting
PC:	6+92.153	390827.423	604211.564
PI:	7+66.22	390898.50	604232.39
PT:	8+27.628	390919.103	604303.53
Circular Curve Data			
Parameter	Value	Parameter	Value
Delta:	57° 31' 07.5721"	Type:	RIGHT
Radius:	134.95		
Length:	135,475	Tangent:	74.065
Mid-Ord:	16,646	External:	18.989
Chord:	129.858	Course:	N 45° 05' 20,9680" E
Tangent Data			
Description	PT Station	Northing	Easting
Start:	8+27.63	390919.10	604303.53
End:	8+27.63	390919.10	604303.53
Tangent Data			
Parameter	Value	Parameter	Value
Length:	0.005	Course:	N 73° 50' 54.7531" E

NIA .			
Curve Point			
Description PC:	Station 8+27.634	Northing 390919.105	Easting 604303.535
PI;	9+00.21	390939.29	604373.25
PT:	9+71.782	390938.83	604445.824
Circular Curve			
Parameter Delta: Radius:	Value 16° 31' 05.4737" 500	Parameter Type:	Value RIGHT
Length:	144.148	Tangent:	72.578
Mid-Ord:	5.186	External:	5.24
Chard:	143.65	Course:	N 82° 06' 27.4910" E
Tangent Data			
Description Start: End: Tangent Data	PT Station 9+71.782 11+31.879	Northing 390938.83 390937.805	Easting 604445.824 604605.917
Parameter Length: Tangent Data	Value 160,097	Parameter Course:	Value S 89° 37' 59.7722" E
Description Start: End: Tangent Data	PT Station 11+31.879 16+17.935	Northing 390937.805 390927.357	Easting 604605.917 605091.861
Parameter Length:	Value 486.056	Parameter Course:	Value S 88° 46' 05.8802" E

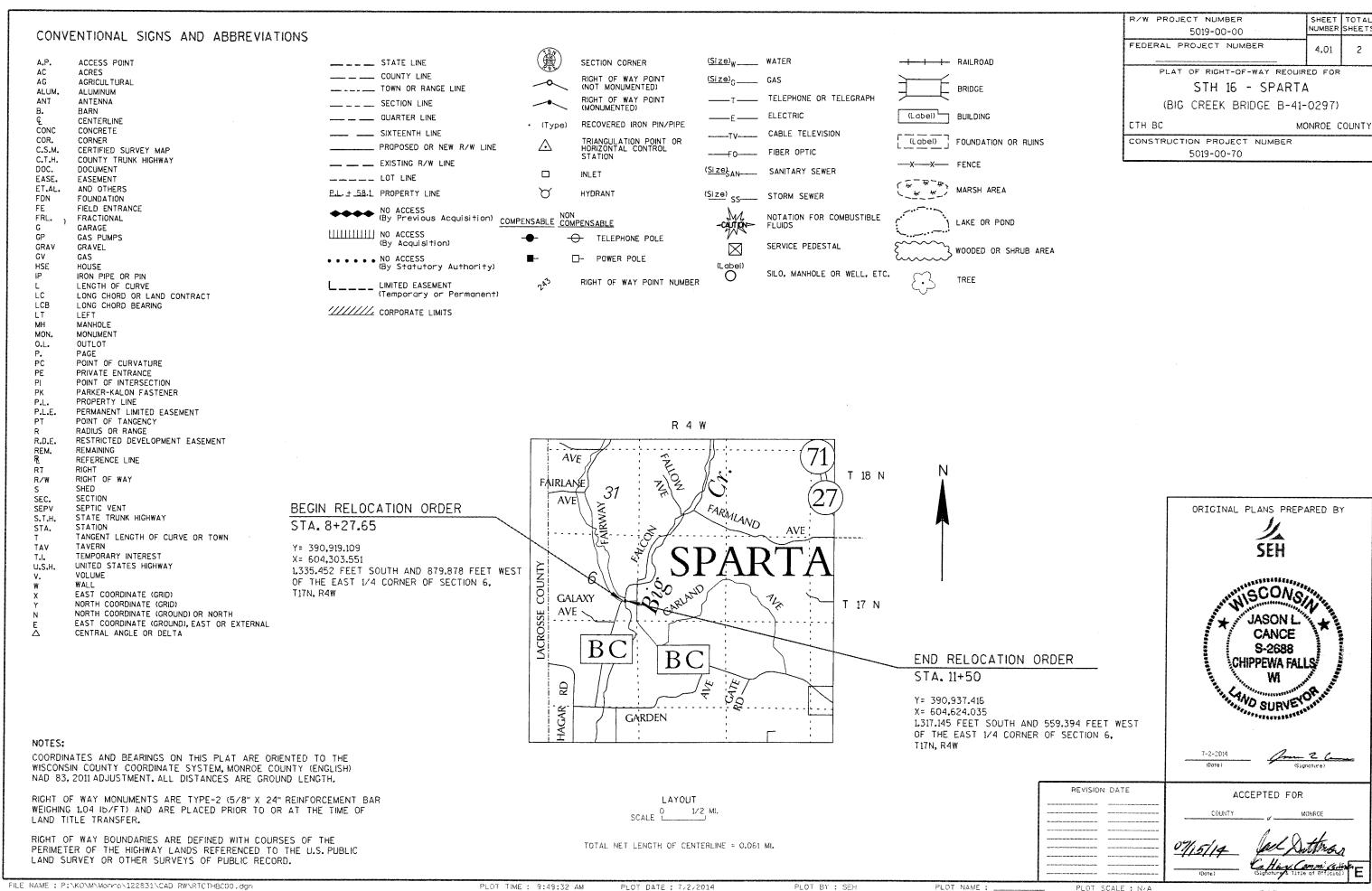
PROJECT NO:5019-00-70 HWY:CTH BC COUNTY:MONROE ALIGNMENT DESCRIPTION SHEET E

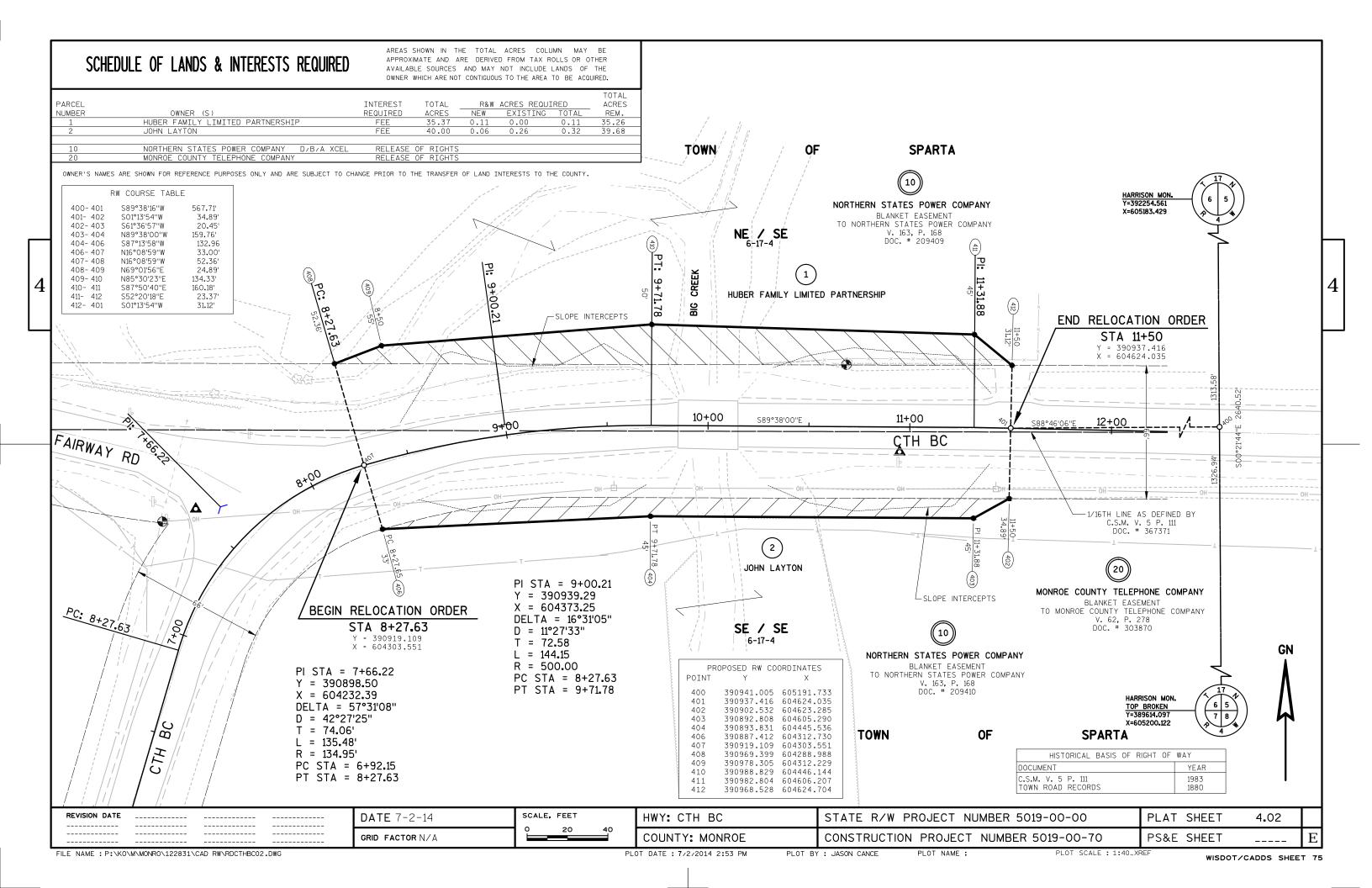
PLOT NAME :

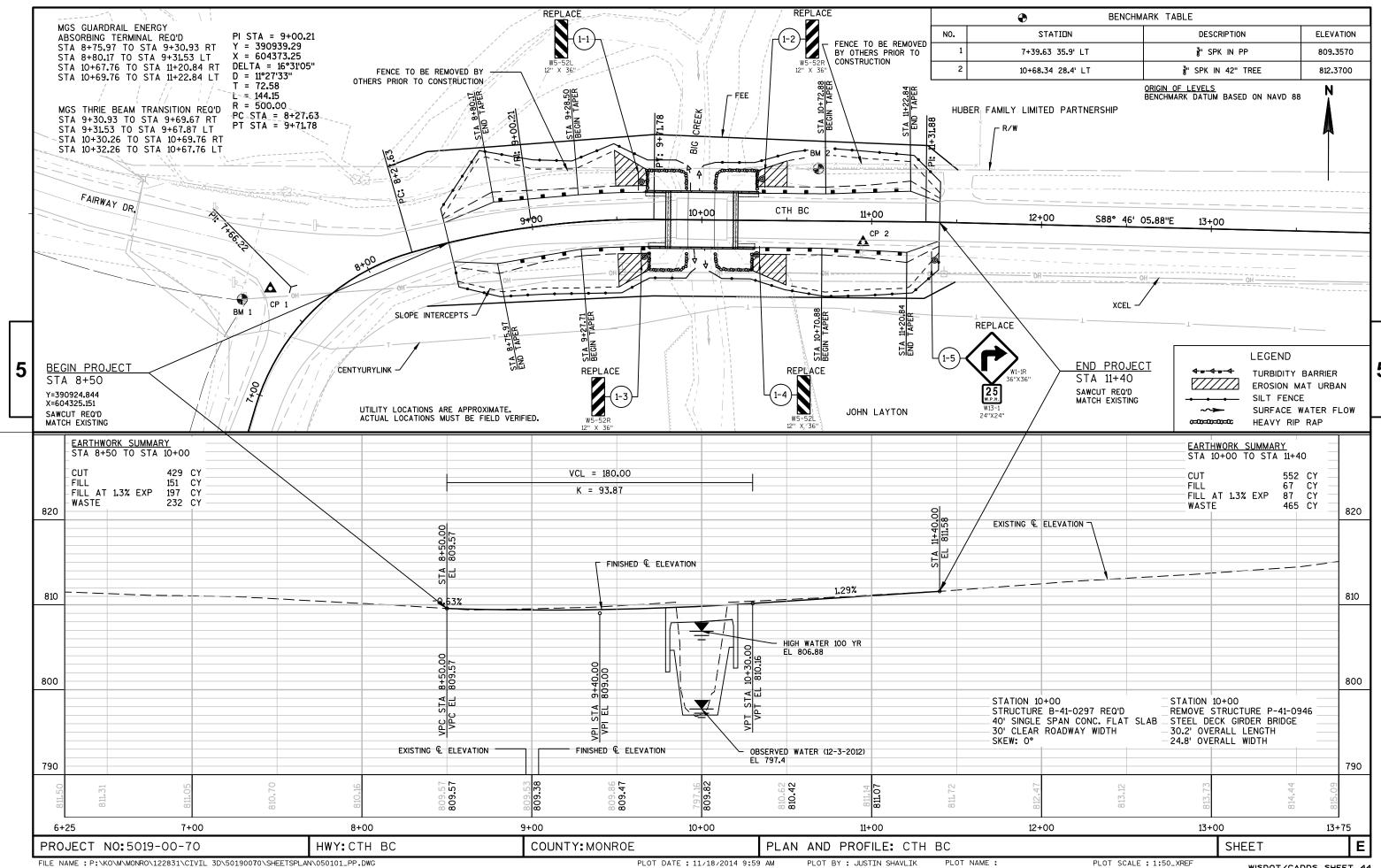
DATE 18	BNOV14	E :	STIMAT	E O F Q U A N	
LI NE NUMBER	ITEM	ITEM DESCRIPTION	UNI T	TOTAL	5019-00-70 QUANTI TY
0010	201.0105	CLEARI NG	STA	2.000	2.000
0020 0030	201. 0205 203. 0600	GRUBBING S REMOVING OLD STRUCTURE OVER WATERWAY	STA LS	2. 000 1. 000	2. 000 1. 000
0030	203. 0000.	WITH MINIMAL DEBRIS (STATION) 01. STATION 10+00	LS	1.000	1.000
0040	205. 0100	EXCAVATION COMMON **P**	CY	504.000	504.000
0050	206. 1000	EXCAVATION FOR STRUCTURES BRIDGES (STRUCTURE) 01. B-41-297	LS	1. 000	1. 000
0060	210. 0100	BACKFILL STRUCTURE	CY	218. 000	218. 000
0070	213. 0100	FINISHING ROADWAY (PROJECT) 01. 5019-00-70	EACH	1. 000	1. 000
0800	305. 0110	BASE AGGREGATE DENSE 3/4-INCH	TON	60.000	60.000
0090 0100	305. 0120 455. 0605	BASE AGGREGATE DENSE 1 1/4-INCH TACK COAT	TON GAL	570. 000 50. 000	570. 000 50. 000
	455. 0605	TACK COAT	UAL	50.000	50.000
0110	465. 0105	ASPHALTI C SURFACE	TON	190.000	190.000
0120	502. 0100 502. 3200	CONCRETE MASONRY BRIDGES PROTECTIVE SURFACE TREATMENT	CY	80. 000 194. 000	80. 000 194. 000
0130 0140	502. 3200 505. 0405	BAR STEEL REINFORCEMENT HS BRIDGES	SY LB	194.000 5, 200.000	5, 200. 000
0150	505. 0605	BAR STEEL REINFORCEMENT HS COATED	LB	22, 800. 000	22, 800. 000
		BRI DGES			
0160	513. 7050	RAILING STEEL TYPE W (STRUCTURE) 01.	LS	1. 000	1.000
0170	E16 0E00	B-41-297	cv.	20, 000	20,000
0170 0180	516. 0500 550. 1100	RUBBERIZED MEMBRANE WATERPROOFING PILING STEEL HP 10-INCH X 42 LB	SY LF	20. 000 350. 000	20. 000 350. 000
0190	606. 0300	RI PRAP HEAVY	CY	170.000	170. 000
0200	612. 0206	PI PE UNDERDRAIN UNPERFORATED 6-INCH	LF	60.000	60. 000
0210	612. 0406	PIPE UNDERDRAIN WRAPPED 6-INCH	LF	120. 000	120. 000
0220	614. 2500	MGS THRIE BEAM TRANSITION	LF	158.000	158. 000
0230	614. 2610 619. 1000	MGS GUARDRAIL TERMINAL EAT MOBILIZATION	EACH	4.000	4. 000
0240 0250	625. 0100	TOPSOIL **P**	EACH SY	1. 000 866. 000	1. 000 866. 000
0260 0270	627. 0200 628. 1504	MULCHING **P** SILT FENCE	SY LF	1, 008. 000 650. 000	1, 008. 000 650. 000
0270	628. 1504	SILT FENCE MAINTENANCE	LF LF	650. 000 650. 000	650. 000
0290	628. 1905	MOBILIZATIONS EROSION CONTROL	EACH	3.000	3. 000
0300	628. 1910	MOBILIZATIONS EMERGENCY EROSION CONTRO	L EACH	3. 000	3. 000
0310	628. 2006	EROSION MAT URBAN CLASS I TYPE A	SY	110.000	110. 000
0320	628. 6005	TURBI DI TY BARRI ERS	SY	130.000	130.000
0330 0340	628. 7504 629. 0205	TEMPORARY DITCH CHECKS FERTILIZER TYPE A **P**	LF CWT	15. 000 0. 600	15. 000 0. 600
0350	630. 0120	SEEDING MIXTURE NO. 20 **P**	LB	25. 000	25. 000
03/0	420,0200		I D	25 000	25 000
0360 0370	630. 0200 634. 0612	SEEDING TEMPORARY **P** POSTS WOOD 4X6-INCH X 12-FT	LB EACH	25. 000 4. 000	25. 000 4. 000
0380	634. 0616	POSTS WOOD 4X6-INCH X 12-IT	EACH	1. 000	1. 000
0390	637. 2230	SIGNS TYPE II REFLECTIVE F	SF	23.000	23. 000
0400	642. 5001	FIELD OFFICE TYPE B	EACH	1. 000	1. 000
0410	643. 0100	TRAFFIC CONTROL (PROJECT) 01. 5019-00-		1. 000	1.000
0420	645. 0120	GEOTEXTILE FABRIC TYPE HR	SY	290.000	290.000
0430 0440	646. 0106 650. 4500	PAVEMENT MARKING EPOXY 4-INCH CONSTRUCTION STAKING SUBGRADE	LF LF	1, 160. 000 248. 000	1, 160. 000 248. 000
0450	650. 5000	CONSTRUCTION STAKING BASE	LF	248. 000	248. 000
0460	650. 6500	CONSTRUCTION STAKING STRUCTURE LAYOUT	LS	1. 000	1. 000
		(STRUCTURE) 01. B-41-297			
0470	650. 9910	CONSTRUCTION STAKING SUPPLEMENTAL CONTROL (PROJECT) 01. 5019-00-70	LS	1. 000	1. 000
		CONTROL (PROJECT) UT. 5019-00-70			

PROJECT NO:5019-00-70 HWY:CTH BC COUNTY:MONROE	MISCELLANEOUS QUANTITIES SHEET									
	ALL ITEMS ARE CATEGORY 0010 UNLESS OTHERWISE NOTED									
TOTALS 60 570	TOTALS 866 1008 0.6 25 25 ** PAY PLAN QUANTITY.									
8+50 - 9+68	8+50 - 9+78.75 LT & RT 460 537 0.3 13 13 13 10+21.25 - 11+40 LT & RT 406 471 0.3 12 12									
CTH BC 8+50 - 9+79 - 210 MAINLINE	STATION - STATION LOCATION SY SY CWT LB LB CTH BC									
305.0110 305.0120 3/4-INCH 1 1/4-INCH STATION - STATION LOCATION TON TON REMARKS	**630.0120 **629.0205 SEEDING **630.0200 **625.0100 **627.0200 FERTILIZER MIXTURE SEEDING TOPSOIL MULCHING TYPE A NO. 20 TEMPORARY									
BASE AGGREGATE DENSE	TOPSOIL & SEEDING **630.0120									
TOTAL 1	TOTAL 1									
CTH BC 8+50 - 11+40 1	CTH BC 8+50 - 11+40 1									
### STATION - STATION EACH STATION STATION	MOBILIZATION 619.1000 STATION - STATION EACH									
5) EXPANSION FACTOR = 1.3 ** PAY PLAN QUANTITY.	TOTALS 158 4									
1) SALVAGED/UNUSABLE PAVEMENT MATERIAL IS INCLUDED IN COMMON EXCAVATION. 2) FILL DOES NOT INCLUDE UNUSABLE PAVEMENT EXCAVATION VOLUME. 3) FILL WILL BE BACKFILLED WITH CUT OR BORROW. 4) POSITIVE BORROW INDICATES A SHORTAGE OF MATERIAL.	10+30.26 - 10+67.76 RT 39.4 - 10+32.26 - 10+69.76 LT 39.4 - 10+67.76 - 11+20.84 RT - 1 10+69.76 - 11+22.84 LT - 1									
TOTALS 504 218 284 -220 NOTES:	8+80.17 - 9+31.53									
CTH BC 8+50 - 9+79 LT & RT 223 151 197 -26 10+21 - 11+40 LT & RT 281 67 87 -194	STATION - STATION LOCATION LF EACH CTH BC 8+75.97 9+30.93 RT - 1									
**205.0100 AIR EXPANDED WASTE COMMON FILL FILL BORROW STATION - STATION LOCATION CY CY CY CY	MGS MGS THRIE BEAM TERMINAL TRANSITION EAT									
EXCAVATION ALD EXPANDED WASTE	GUARDRAIL ITEMS 614.2500 614.2610									
TOTALS 2 2	TOTALS 50 190									
CTH BC 9+00 - 11+00 LT & RT 2 2 TOTALS 2 2	CTH BC 8+50 - 9+78.75 ~ 26 98 10+21.25 - 11+40 ~ 24 92									
CLEARING GRUBBING STATION - STATION LOCATION STA STA	STATION - STATION LOCATION GAL TON									
CLEARING/GRUBBING 201.0105 201.0205	455.0605 465.0105 TACK ASPHALTIC									
	ASPHALTIC PAVEMENT ITEMS									

	EROSION CONTROL		PAVEMENT MARKING
	628.2006 EROSION 628.1520 MAT 628.1504 SILT URBAN 628.6 SILT FENCE CLASS I TURBI FENCE MAINTENANCE TYPE A BARR LF LF SY SY	DITY DITCH BER CHECKS	646.0106 EPOXY 4-INCH STATION - STATION LOCATION LF REMARKS CTH BC
CTH BC 8+50 - 9+79 LT & RT 8+75 RT 10+21 - 11+40 LT & RT 11+25 LT & RT	325 325 55 65 325 325 55 65 650 650 110 130	10	8+50 - 11+40
STATION - STATION CTH BC 8+50 - 11+40	BILIZATION EROSION CONTROL 628.1905 MOBILIZATION EROSION CONTROL EROSION CONTROL EACH 3 3 3 TOTALS 3 3		CONSTRUCTION STAKING CONSTRUCTION STAKING CONSTRUCTURE CON
1-2 W5-52R CLEARANCE STRIPER 1-3 W5-52R CLEARANCE STRIPER 1-4 W5-52L CLEARANCE STRIPER 1-5 W1-1R ARROW RIGHT W13-1 25 MPH	PERMANENT SIGNING		STATION - STATION LOCATION 690.0150
FIELD OFFICE TYPE B PROJECT 642 5001 EACH CTH BC 8+50 - 11+40 1 TOTAL 1	TRAFFIC C PROJECT CTH BC 8+50 - 11+4		## CTH BC 8+50 - 9+79
			ALL ITEMS ARE CATEGORY 0010 UNLESS OTHERWISE NOTE







FILE NAME : P:\KO\M\MONRO\122831\CIVIL 3D\50190070\SHEETSPLAN\050101_PP.DWG

PLOT DATE: 11/18/2014 9:59 AM

PLOT BY : JUSTIN SHAVLIK

WISDOT/CADDS SHEET 44

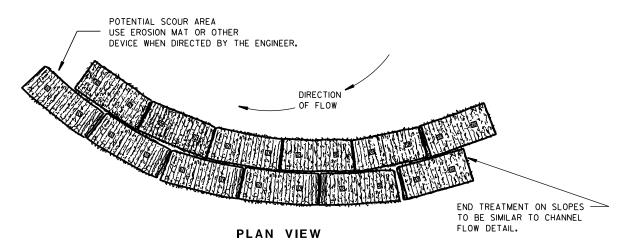
Standard Detail Drawing List

08E08-03	TYPICAL INSTALLATIONS OF EROSION BALES / TEMPORARY DITCH CHECKS
08E09-06	SILT FENCE
08E11-02	TURBI DI TY BARRI ER
12A03-10	NAME PLATE (STRUCTURES)
14B44-02A	MIDWEST GUARDRAIL SYSTEM ENERGY ABSORBING TERMINAL (MGS)
14B44-02B	MIDWEST GUARDRAIL SYSTEM ENERGY ABSORBING TERMINAL (MGS)
14B44-02C	MIDWEST GUARDRAIL SYSTEM ENERGY ABSORBING TERMINAL (MGS)
14B45-03A	MIDWEST GUARDRAIL SYSTEM THRIE BEAM TRANSITION (MGS)
14B45-03B	MIDWEST GUARDRAIL SYSTEM THRIE BEAM TRANSITION (MGS)
14B45-03C	MIDWEST GUARDRAIL SYSTEM THRIE BEAM TRANSITION (MGS)
14B45-03G	MIDWEST GUARDRAIL SYSTEM THRIE BEAM TRANSITION (MGS)
15C02-05A	BARRICADES AND SIGNS FOR MAINLINE CLOSURES
15C02-05B	BARRICADES AND SIGNS FOR MAINLINE CLOSURES
15C06-07	SIGNING & MARKING FOR TWO LANE BRIDGES
15C08-16A	PAVEMENT MARKING (MAINLINE)

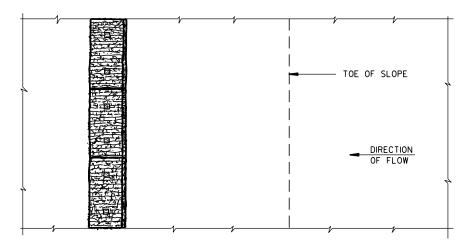
GENERAL NOTES

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

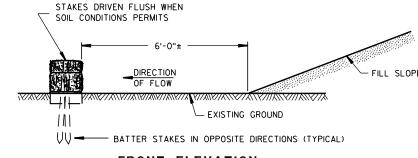
TEMPORARY DITCH CHECKS EITHER EROSION BALES OR MANUFACTURED SHALL BE PAID FOR UNDER THE BID ITEM OF TEMPORARY DITCH CHECK. THE DEPARTMENT WILL NOT PAY FOR TEMPORARY DITCH CHECKS CONSTRUCTED OF A SINGLE ROW OF EROSION BALES.



WHEN ALTERING THE DIRECTION OF FLOW



PLAN VIEW



FRONT ELEVATION

WHEN EXISTING GROUND SLOPES AWAY FROM FILL SLOPE

EROSION BALES FOR SHEET FLOW

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

6

 ∞

 ∞

Ω

Δ

STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION

APPROVED

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

6

Ō Ö

TYPICAL APPLICATION OF SILT FENCE

6

b

Ō

Ш





PLAN VIEW SILT FENCE AT MEDIAN SURFACE DRAINS



GENERAL NOTES

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

- ① HORIZONTAL BRACE REQUIRED WITH 2" X 4" WOODEN FRAME OR EQUIVALENT AT TOP OF POSTS.
- 2 FOR MANUAL INSTALLATIONS THE TRENCH SHALL BE A MINIMUM OF 4" WIDE & 6" DEEP TO BURY AND ANCHOR THE GEOTEXTILE FABRIC. FOLD MATERIAL TO FIT TRENCH AND BACKFILL & COMPACT TRENCH WITH EXCAVATED SOIL.
- 3 WOOD POSTS SHALL BE A MINIMUM SIZE OF 11/8" X 11/8" OF OAK OR HICKORY.
- 4) SILT FENCE TO EXTEND ACROSS THE TOP OF THE PIPE.
- (5) CONSTRUCT SILT FENCE FROM A CONTINUOUS ROLL IF POSSIBLE BY CUTTING LENGTHS TO AVOID JOINTS. IF A JOINT IS NECESSARY USE ONE OF THE FOLLOWING TWO METHODS; A) OVERLAP THE END POSTS AND TWIST, OR ROTATE, AT LEAST 180 DEGREES, B) HOOK THE END OF EACH SILT FENCE LENGTH.



TRENCH DETAIL



SILT FENCE TIE BACK

(WHEN REQUIRED BY THE ENGINEER)



SILT FENCE

တ ∞

6

Ū

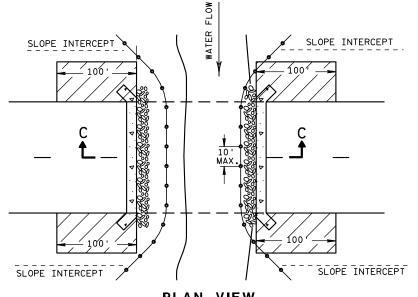
D

GENERAL NOTES

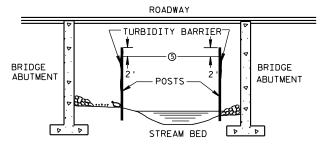
DETAILS OF CONSTRUCTION, MATERIALS AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS AND THE APPLICABLE SPECIAL PROVISIONS.

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

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



PLAN VIEW



SECTION C-C

TURBIDITY BARRIER DETAIL SHOWING TYPICAL PLACEMENT AT STRUCTURES

TURBIDITY BARRIER

STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION

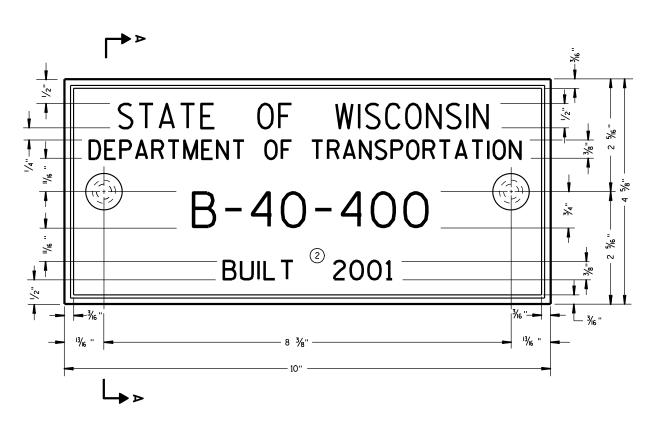
APPROVED

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

 ∞

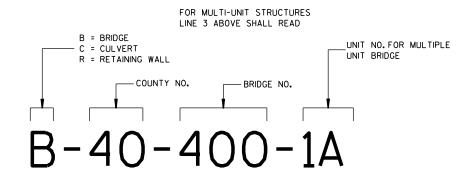
Ω





TYPICAL NAME PLATE

(BRIDGES, CULVERTS, AND RETAINING WALLS)



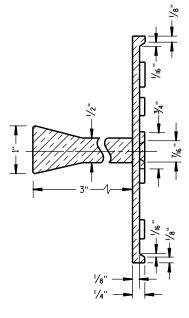
NUMBERING DESIGNATION MULTI-UNIT STRUCTURES

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.

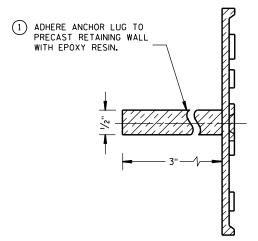
- 1 EPOXY RESIN SHALL BE FROM AN APPROVED MANUFACTURER AND USED IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS.
- (2) REHABILITATION OF AN EXISTING STRUCTURE SHOULD USE THE DATE OF ORIGINAL STRUCTURE CONSTRUCTION.



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

APPROVED

 D. 12 A 3-10



S.D.D.

₩

SECTION A-A SECTION B-B

9 H

PLAN VIEW

BILL OF MATERIALS

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



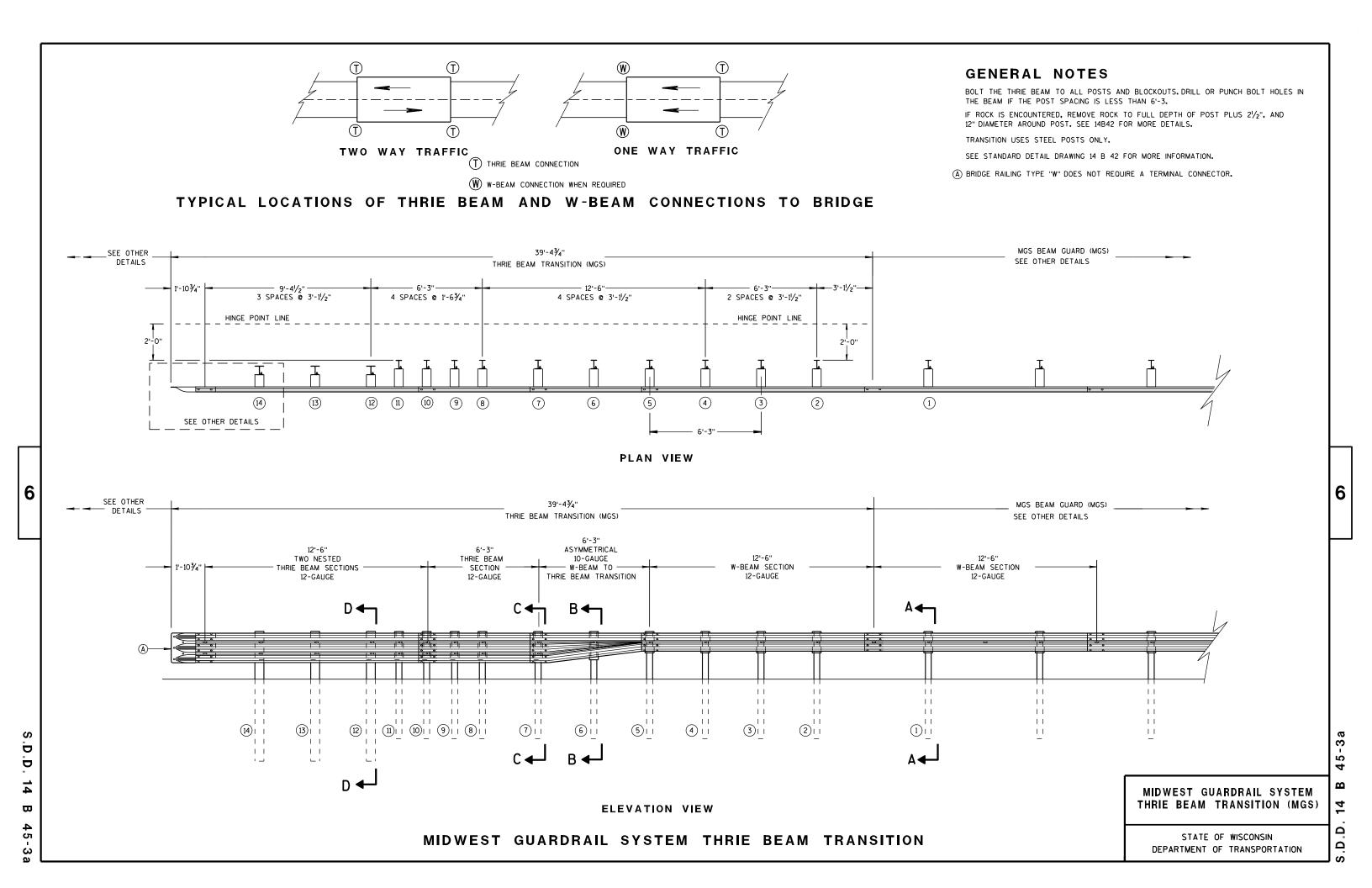
MIDWEST GUARDRAIL SYSTEM ENERGY ABSORBING TERMINAL (MGS)

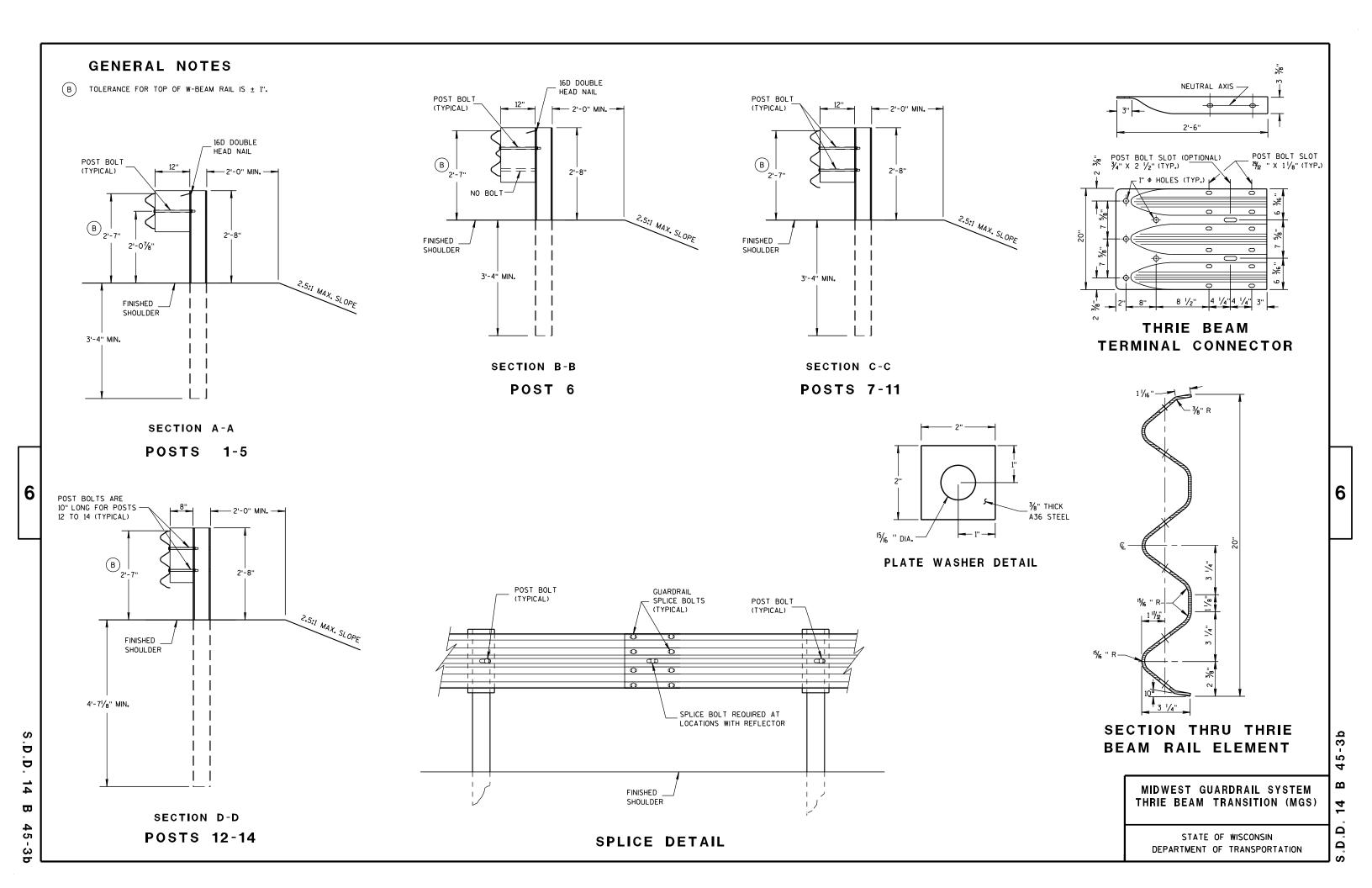
STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION

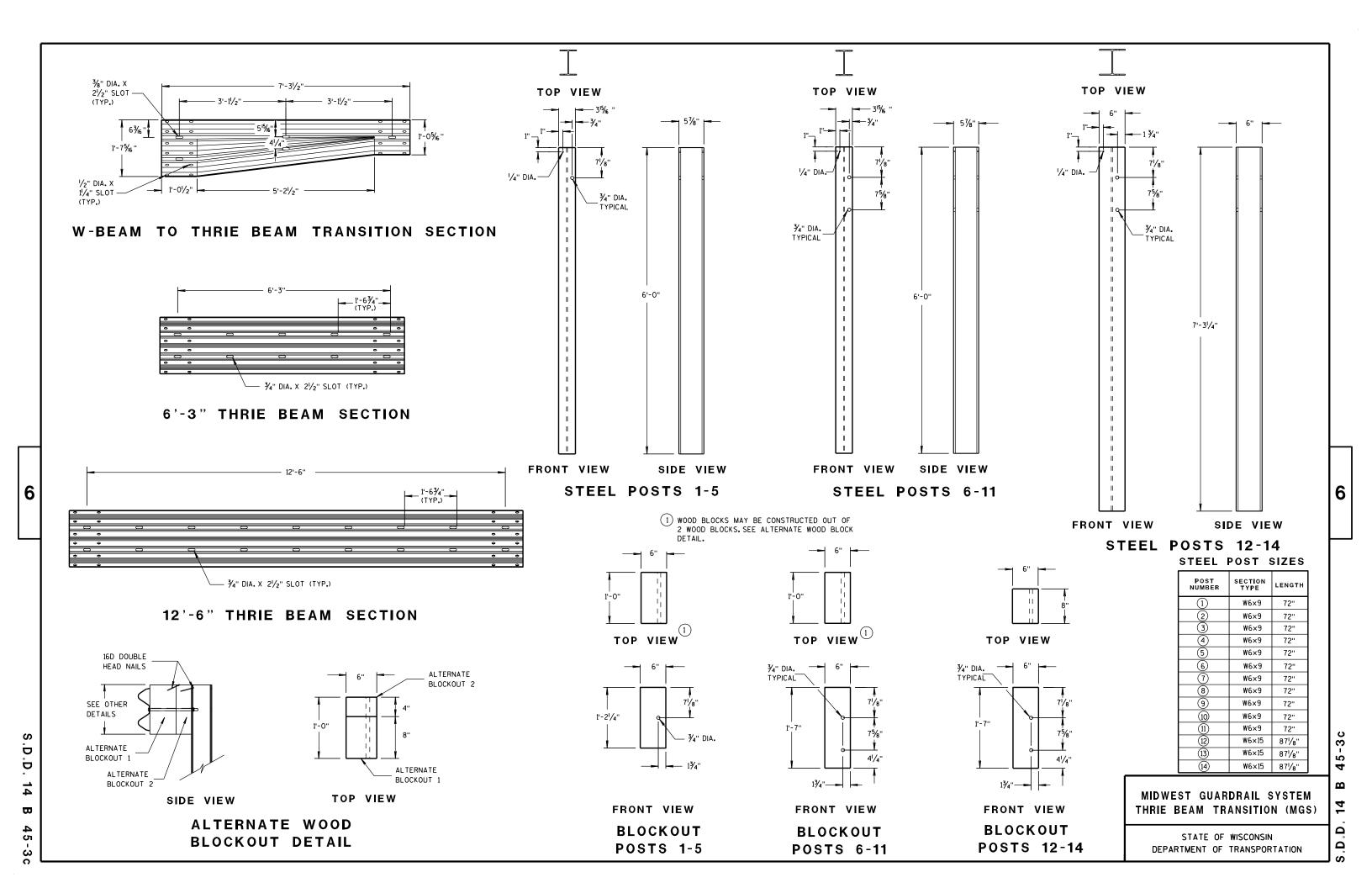
44-2b

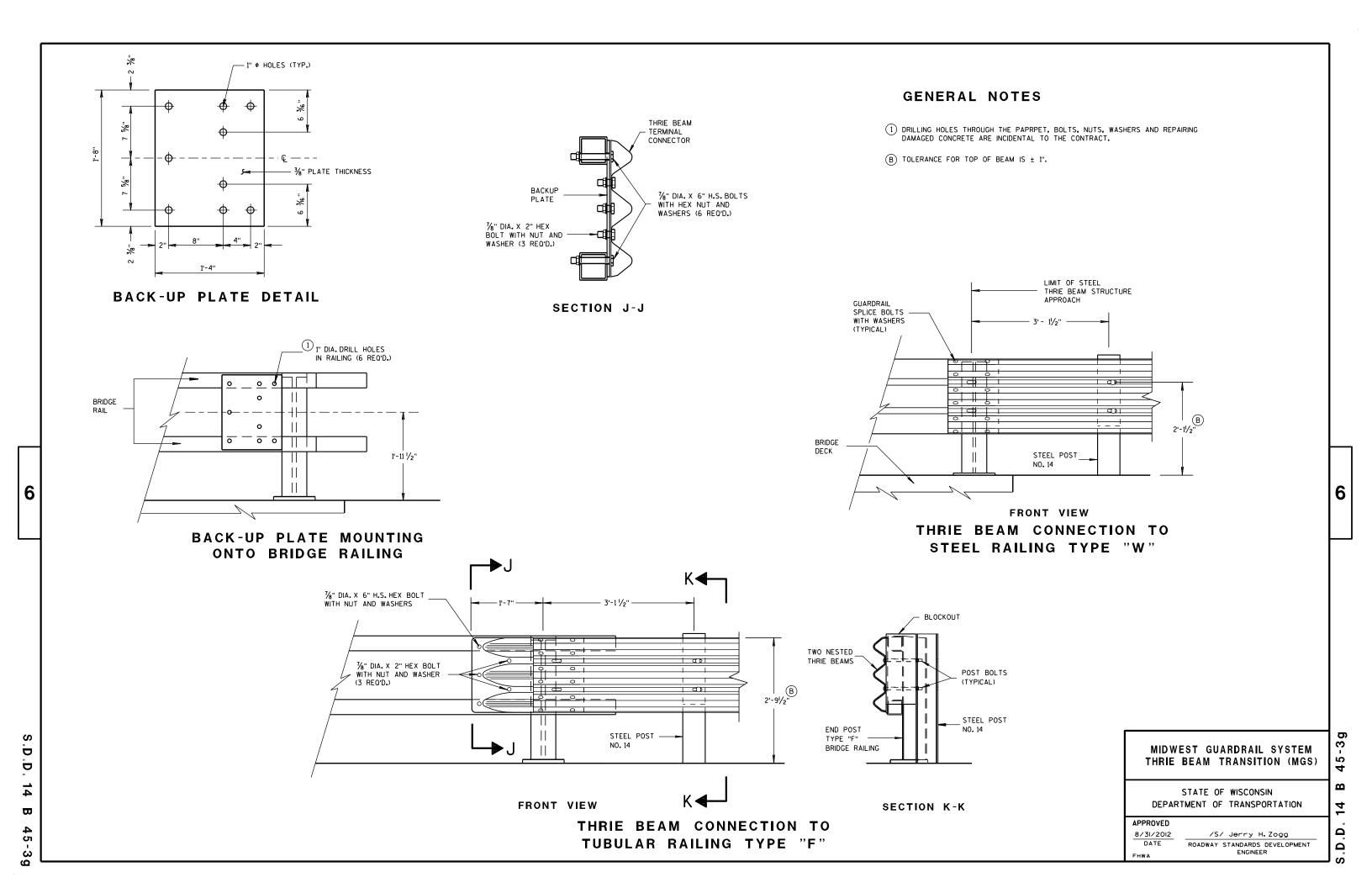
 $\mathbf{\omega}$ 14 ٠٠ ت













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

ROAD CLOSURE BARRICADE DETAIL

APPROACH VIEW



LANE CLOSURE BARRICADE DETAIL

APPROACH VIEW

SEE SDD 15C2-SHEET "a" FOR LEGEND

GENERAL NOTES

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

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

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

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

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

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

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

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

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

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

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

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

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

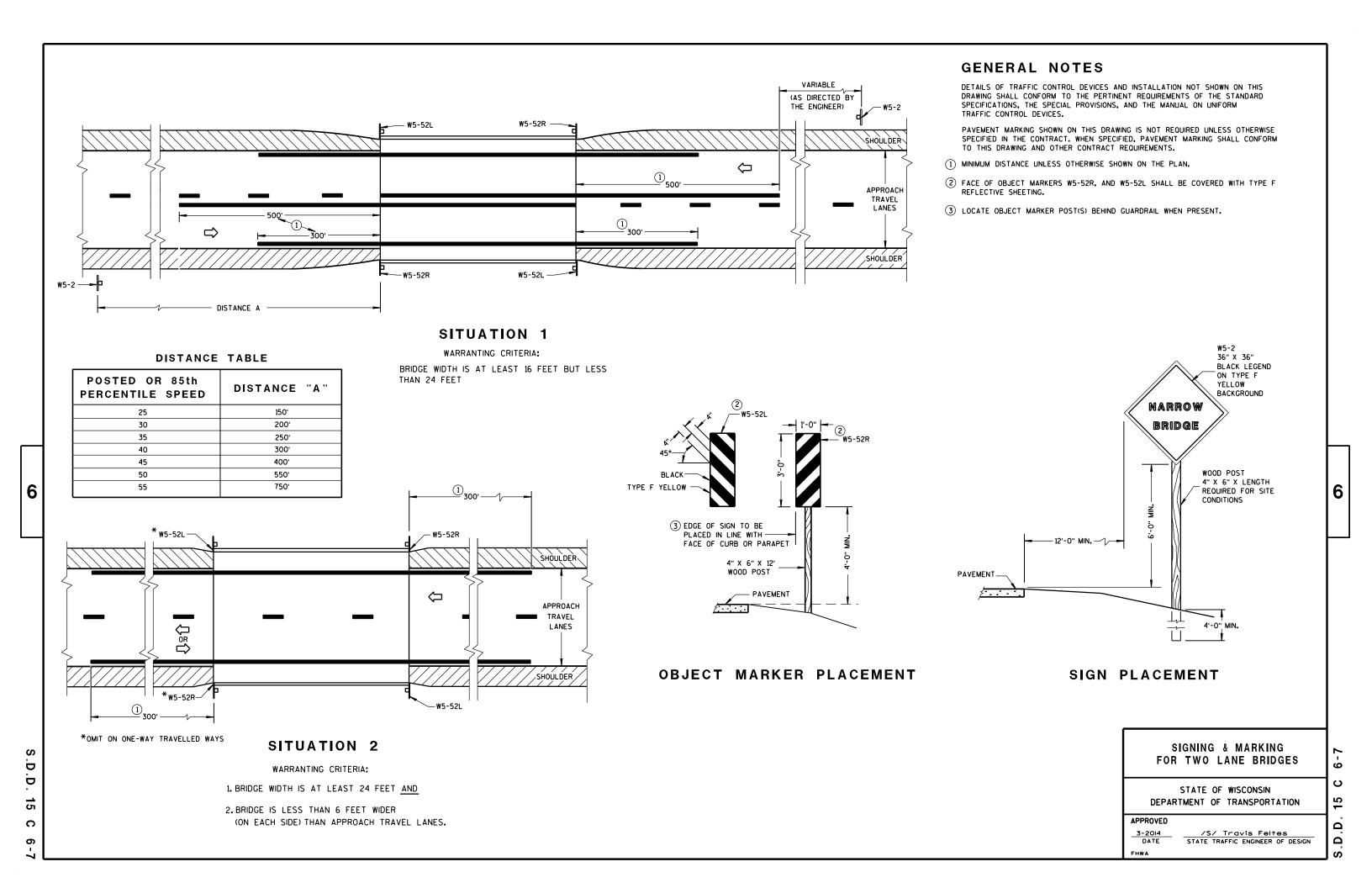
BARRICADES AND SIGNS FOR MAINLINE CLOSURES

STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION

/S/ Travis Feltes STATE TRAFFIC ENGINEER OF DESIGN

2

Δ

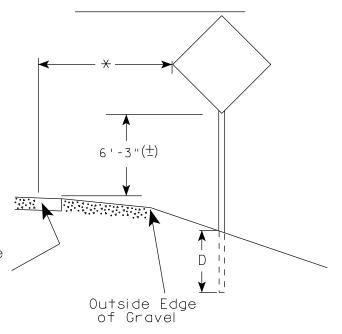




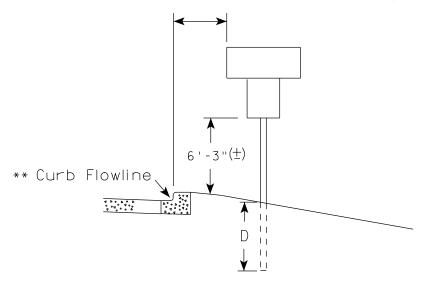
URBAN ARFA

2' Min - 4' Max (See Note 5) 7'-3"(士) ** Curb Flowline. D White Edgeline Location

RURAL ARFA (See Note 2)



2' Min - 4' Max (See Note 5)



5'-3"(士) White Edgeline D 11 Location Outside Edae of Gravel

 $\mid_{X|X}$ 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

* 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 larger than 20 sq. ft. 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" (+) or 6'-3" (+) depending upon existence of a sub-sign.
- 4. Minimum mounting height for J assemblies (A4-5) is 7'-3'' (±) or 6'-3'' (+) per urban or rural detail respectively.
- 5. Minimum mounting height for signs mounted on traffic signal poles is 5' - 3" (+).
- 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 stop signs (R1-1F) shall be mounted at a height of 5'-3''(+) or as directed 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), Clearance Markers (W5-52), Mile Markers (D10 series) & End of Road Markers (W5-56 & W5-56A) 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

APPROVED

Matther R Raud for State Traffic Engineer

DATE 9/21/2011

PLATE NO. 44-3.16

SHEET NO:

PROJECT NO:

HWY:

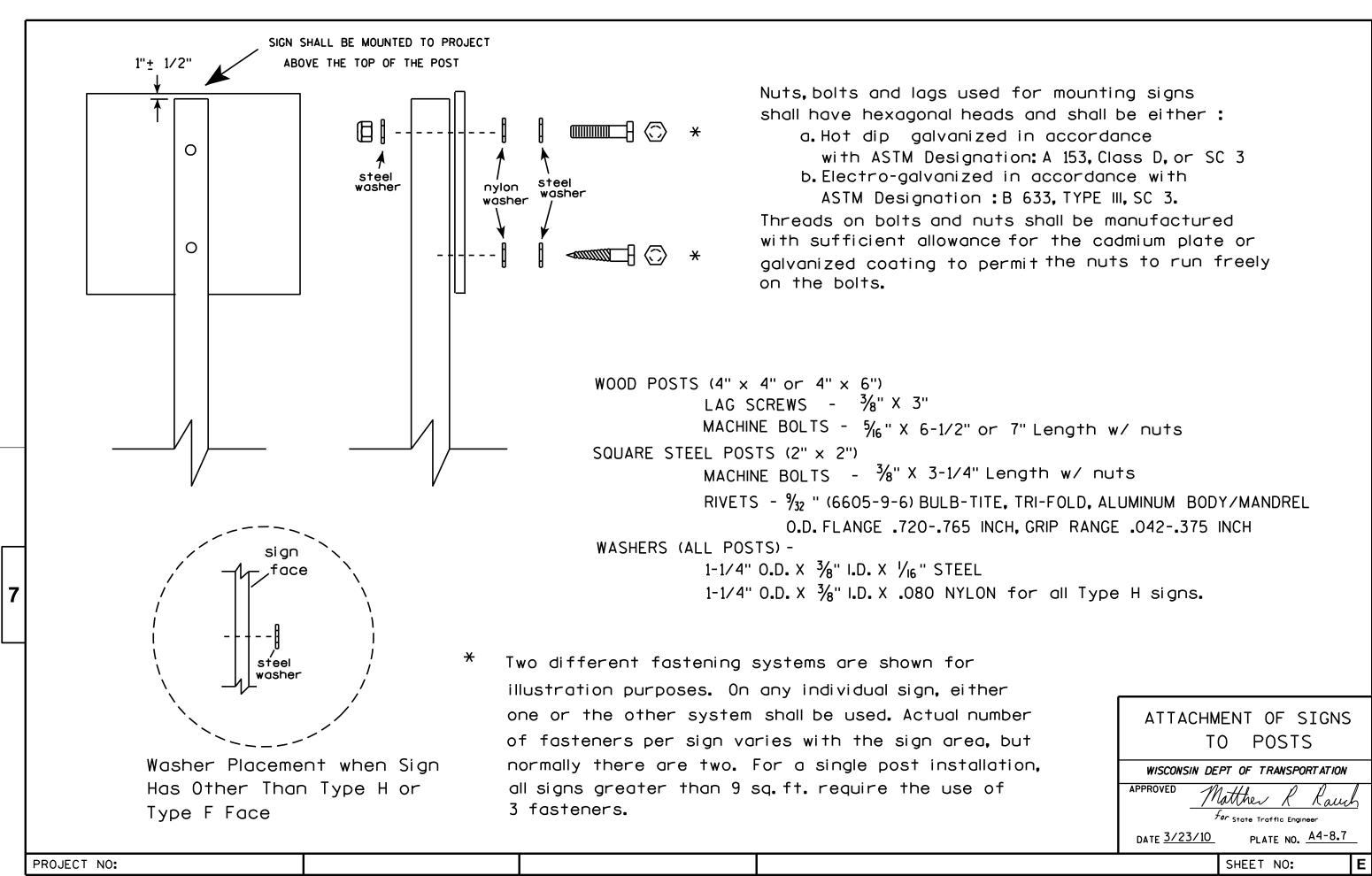
COUNTY:

PLOT NAME :

PLOT SCALE: 101.303739:1.000000

WISDOT/CADDS SHEET 42

measured from the flow line.





NOTES

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

Background - Yellow Message - Black

- 3. Corners may be square or rounded when base material is plywood but borders shall be rounded as shown. When base material is metal, the corners and borders shall be rounded.
- 4. W1-1L is the same as W1-1R except the arrow is reversed along the vertical centerline.

A R N N S S S S S S S S S S S S S S S S S	
W1-1R	

SIZE	Α	В	С	D	E	F	G	Н	I	J	К	L	M	N	0	Р	0	R	S	T	U	٧	W	Х	Y	Z	Area sq. ft.
1	24		1 1/8	3/8	1/2		3	3 1/2	7 3/4	5	2 1/2	7 ⁄8	4	1/2	7	9 1/2		5/8	3 1/4								4.0
25	36		1 5/8	5/8	3/4		4 ½	5 1/4	11 %	7 1/2	3 %	1 1/4	6	3/4	10 1/2	14 1/4		1	4 1/8								9.0
2M	36		1 %	5/8	₹4		4 1/2	5 1/4	11 %	7 1/2	3 %	1 1/4	6	3/4	10 1/2	14 1/4		1	4 1/8								9.0
3	36		1 5/8	5/8	3∕4		4 1/2	5 1/4	11 %	7 1/2	3 %	1 1/4	6	3/4	10 1/2	14 1/4		1	4 1/8								9.0
4	48		2 1/4	3/4	1		6	7	15 1/2	10	4 1/8	1 %	8	1	14	19		1 1/4	6 1/2								16.0
5	48		2 1/4	3/4	1		6	7	15 ½	10	4 1/8	1 %	8	1	14	19		1 1/4	6 1/2								16.0

COUNTY:

STANDARD SIGN W1-1

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthe

 f_{or} State Traffic Engineer
DATE 5/15/12 PLATE NO. W1-1.11

SHEET NO:

FILE NAME : C:\CAEFiles\Projects\tr_stdplate\W11.DGN

PROJECT NO:

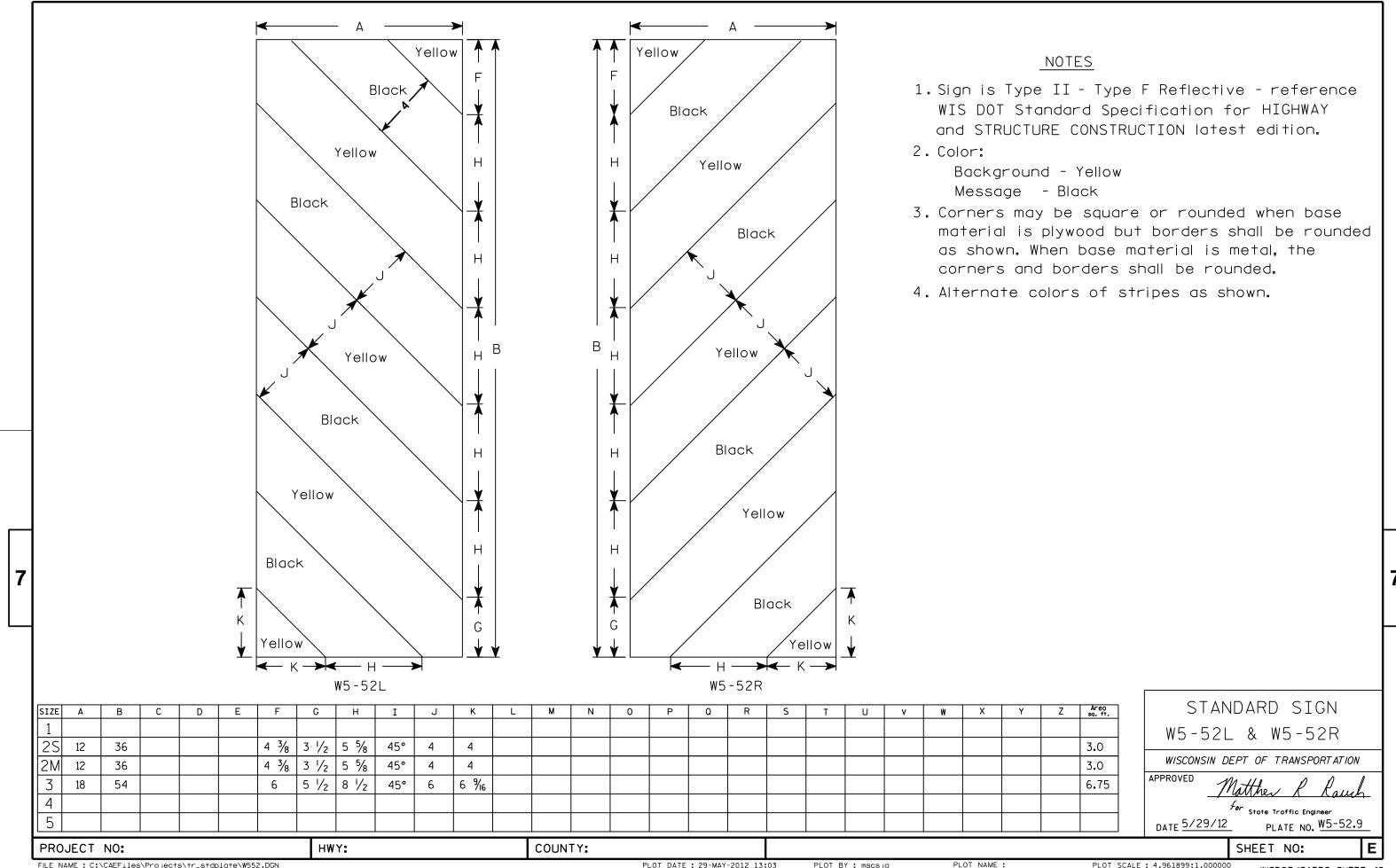
HWY:

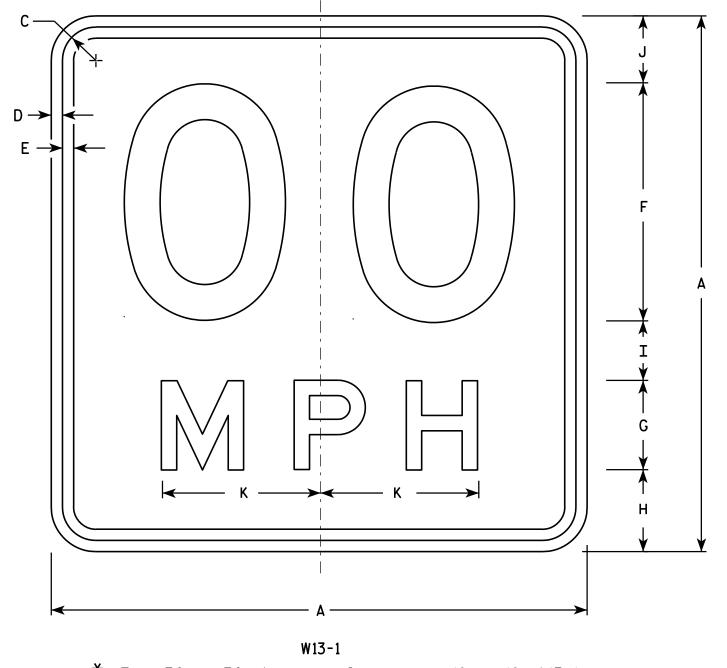
PLOT DATE: 15-MAY-2012 13:47

PLOT BY: mscsja PLOT NAME:

PLOT SCALE: 7.939035:1.000000

WISDOT/CADDS SHEET 42





NOTES

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

Background - Yellow Message - Black

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

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

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

STANDARD SIGN W13-1

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew N

For State Traffic Engineer

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

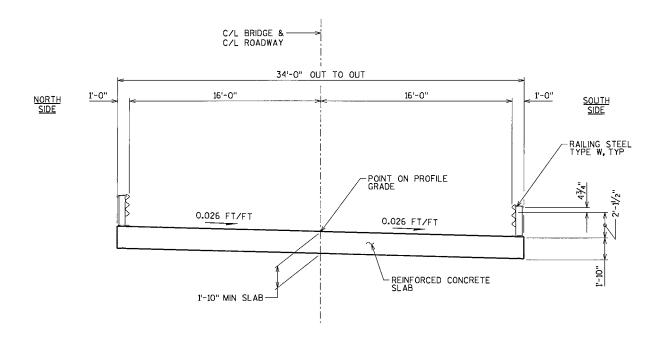
SHEET NO:

PLOT BY: mscsja

PLOT NAME :

C/L BRG W ABUT STA 9+80.00 EL 809.65 FINISHED C/L PROFILE -MATCH EXISTING STA 8+50.00 EL 809.57 VCL = 180.00 1.29% -0.63% 1.29% VPT STA 10+30.00 VPT EL 810.16 VPISTA 9+40.00 VPIEL 809.00 REMOVE EXISTING STRUCTURE (P-41-946)
A SINGLE-SPAN STEEL DECK GIRDER BRIDGE
30'LONG × 24'CLEAR WIDTH ON TIMBER ABUTMENTS. EXISTING C/L PROFILE -

PROFILE GRADE LINE



CROSS SECTION THRU BRIDGE

TOTAL ESTIMATED QUANTITIES - B-41-297

	BID ITEM NUMBER	BID ITEMS	UNIT	WEST ABUT	EAST ABUT	SUPER	TOTALS
	203.0600.S	REMOVING OLD STRUCTURE OVER WATERWAY WITH MINIMAL DEBRIS (STATION) 10+00	LS	-	-	-	1
[206.1000	EXCAVATION FOR STRUCTURES BRIDGES B-41-297	LS	-	-	-	1
[210.0100	BACKFILL STRUCTURE	CY	109	109	-	218
[502.0100	CONCRETE MASONRY BRIDGES	CY	40	40	-	80
1	502.3200	PROTECTIVE SURFACE TREATMENT	SY	-	-	194	194
	505.0405	BAR STEEL REINFORCEMENT HS BRIDGES	LB	2,600	2,600	-	5,200
	505.0605	BAR STEEL REINFORCEMENT HS COATED BRIDGES	LB	1,670	1,670	19,460	22,800
	513.7050	RAILING STEEL TYPE W B-41-297	LS	-	-	-	1
	516.0500	RUBBERIZED MEMBRANE WATERPROOFING	SY	10	10	-	20
	550.1100	PILING STEEL HP 10-INCH x 42 LB	LF	175	175	-	350
	606.0300	RIPRAP HEAVY	CY	85	85	-	170
	612.0206	PIPE UNDERDRAIN UNPERFORATED 6-INCH	LF	30	30	-	60
	612.0406	PIPE UNDERDRAIN WRAPPED 6-INCH	LF	60	60	-	120
	645.0120	GEOTEXTILE FABRIC TYPE HR	SY	145	145	-	290
	SPV.0035.01	SPECIAL FIBER REINFORCED CONCRETE MASONRY FOR BRIDGES STRUCTURE B-41-297	CY	-	-	104	104
		NON-BID ITEMS					
		FILLER	SIZE				1/2 & 3/4
L							

1 INCLUDES REINFORCED CONCRETE APRON ENDWALL AND RODENT SHIELD PER SDD REINFORCED CONCRETE APRON ENDWALL FOR PIPE UNDERDRAIN.

GENERAL NOTES

DRAWINGS SHALL NOT BE SCALED.

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

SEE ROADWAY PLANS FOR EXISTING UTILITY LOCATIONS.

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

THE SLOPE OF THE FILL IN FRONT OF THE ABUTMENTS SHALL BE COVERED WITH RIPRAP HEAVY AND GEOTEXTILE FABRIC TO THE EXTENT SHOWN ON THE GENERAL PLAN SHEET AND IN THE ABUTMENTS DETAILS.

SEAL ALL EXPOSED HORIZONTAL AND VERTICAL SURFACES OF $\frac{1}{2}$ " FILLER WITH NON-STAINING GRAY NON-ASPHALTIC JOINT SEALER (I" DEEP & HOLD $\frac{1}{8}$ " BELOW SURFACE OF CONCRETE).

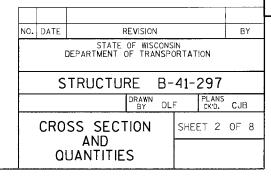
THE EXISTING GROUNDLINE SHALL BE THE UPPER LIMITS OF EXCAVATION FOR STRUCTURES.

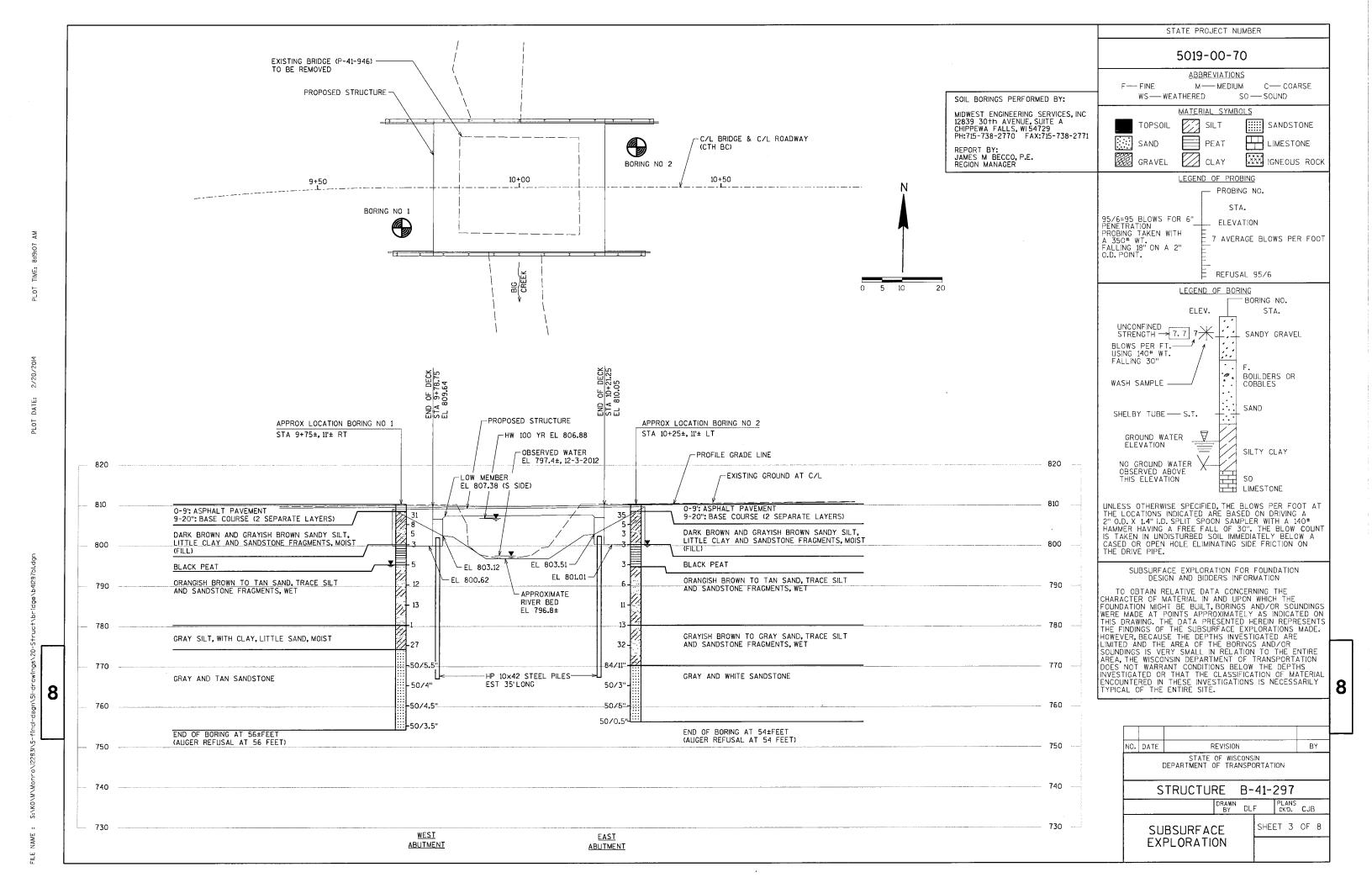
AT ABUTMENTS, ALL SPACES EXCAVATED AND NOT OCCUPIED BY THE NEW STRUCTURE SHALL BE BACKFILLED WITH STRUCTURE BACKFILL UNLESS OTHERWISE NOTED.

FILLER SHALL CONFORM TO THE REQUIREMENTS OF AASHTO DESIGNATION :M153 TYPE 1, 2, OR 3 OR AASHTO DESIGNATION :M213.

COAT WITH "PROTECTIVE SURFACE TREATMENT" PER THE STANDARD SPECIFICATIONS AND THE SUPERSTRUCTURE DETAILS SHEET.

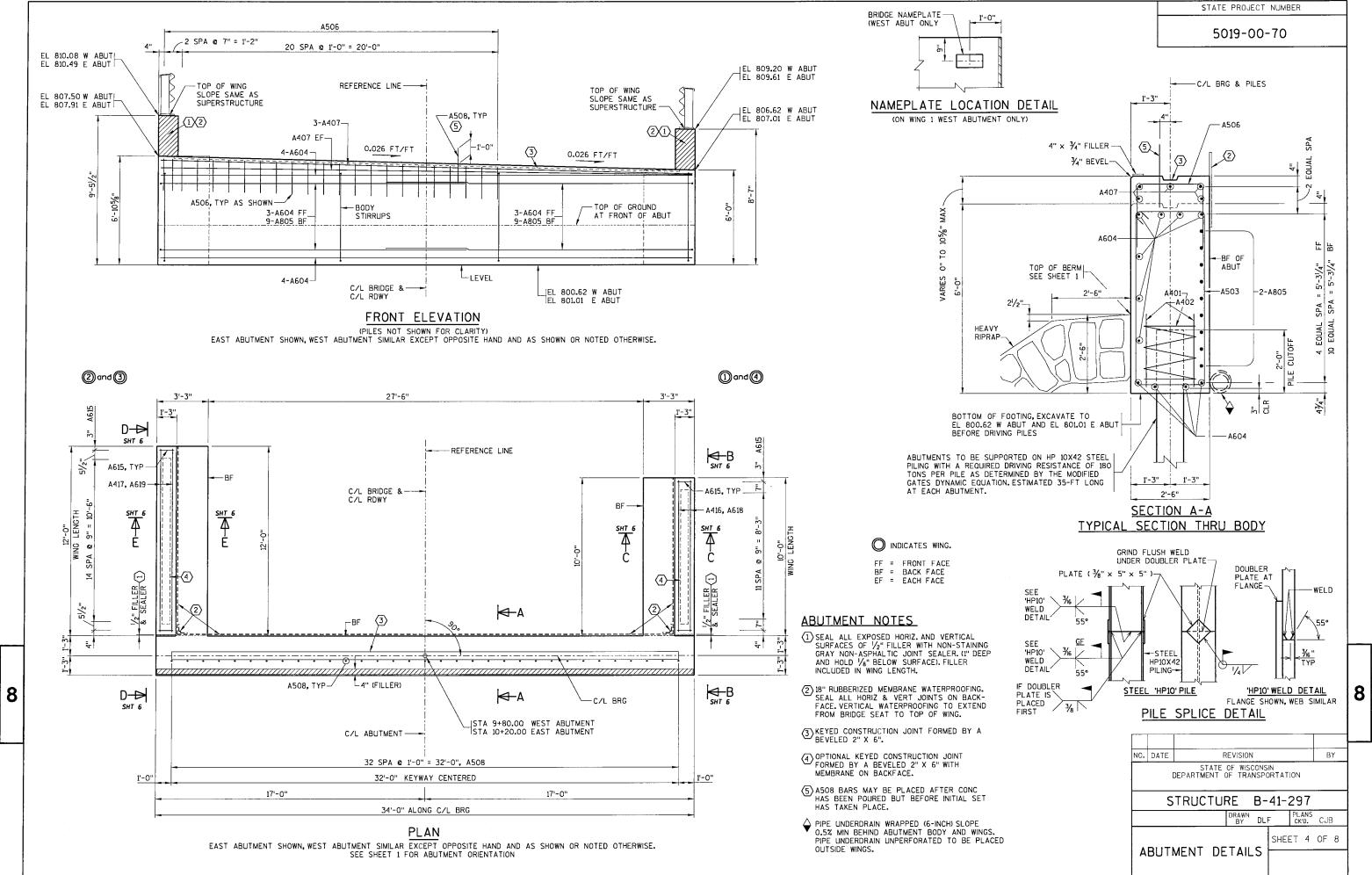
FOR EXISTING STRUCTURE SEE PROFILE GRADE LINE THIS SHEET.









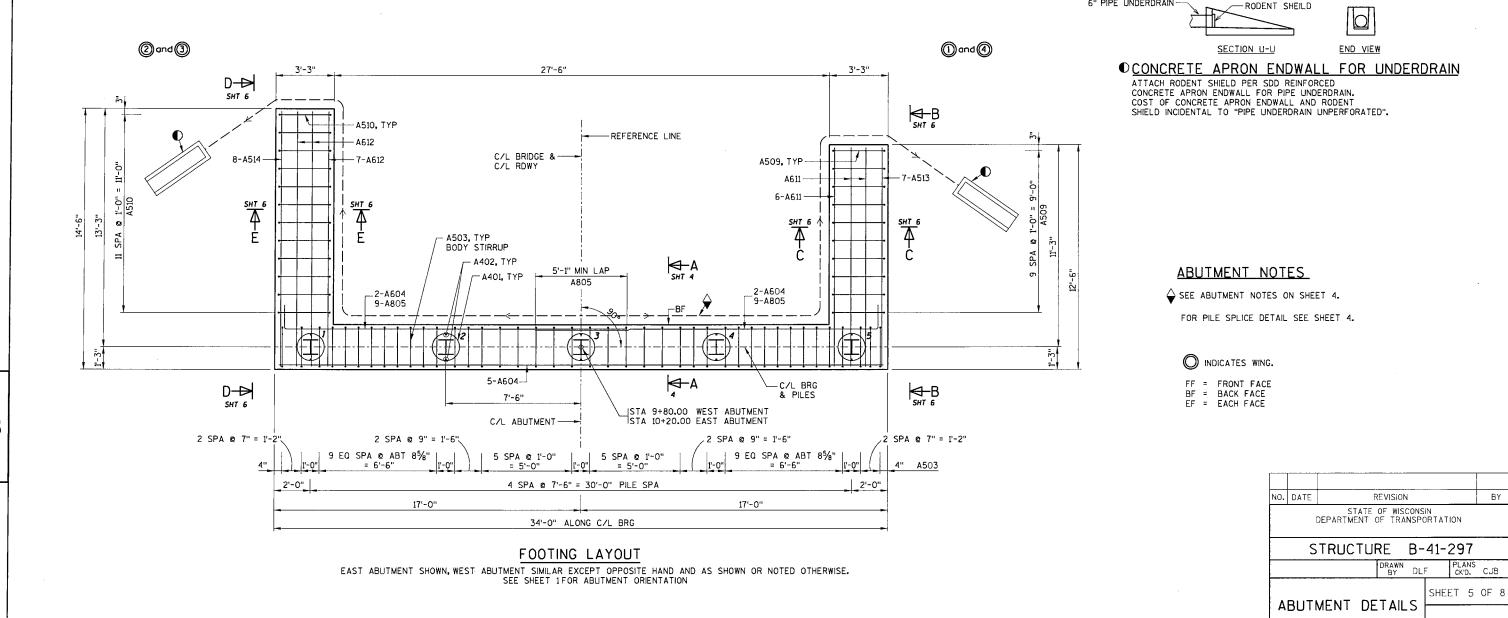


NOTE: SEE S.D.D.8F6: REINFORCED CONCRETE APRON ENDWALL FOR PIPE UNDERDRAIN.

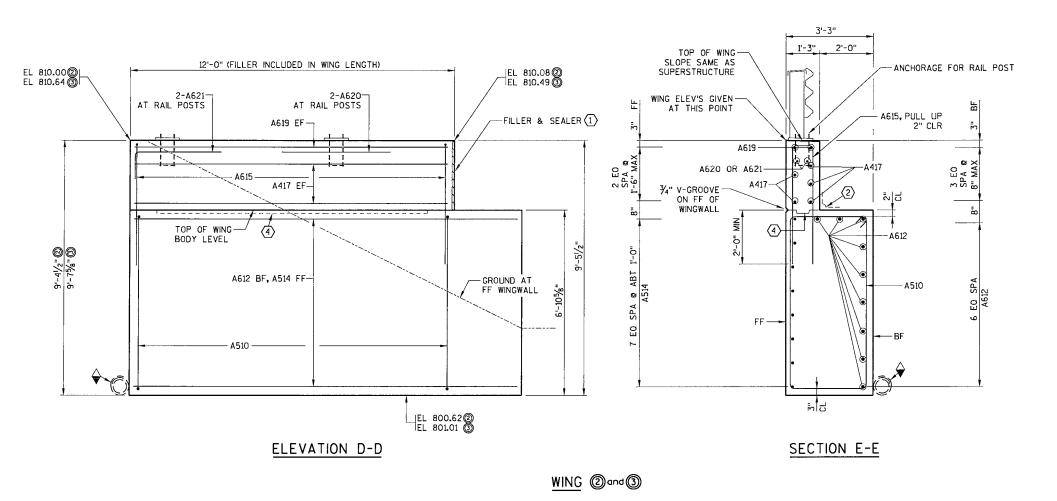
PLAN VIEW

6" PIPE UNDERDRAIN-





3'-3" 2'-0" 1'-3" NAMEPLATE (WING 1 ONLY) TOP OF WING SLOPE SAME AS SUPERSTRUCTURE 10'-0" (FILLER INCLUDED IN WING LENGTH) ANCHORAGE FOR RAIL POST-__EL 809.13 ⑩ EL 809.74 ⓓ EL 809.200 EL 809.61 0 --2-A621 AT RAIL POSTS 2-A620 AT RAIL POSTS WING ELEV'S GIVEN AT THIS POINT A615, PULL UP 2" CLR 1) FILLER & SEALER--A620 OR A621 -A416 EF -¾" V-GROOVE ON FF OF WINGWALL 4 TOP OF WING A611-BODY LEVEL GROUND AT-A509 -FF WINGWALL -A611 BF, A513 FF - A509-EL 800.62¹ EL 801.01 ⁴ SECTION C-C **ELEVATION B-B** WING ①and④



STATE PROJECT NUMBER

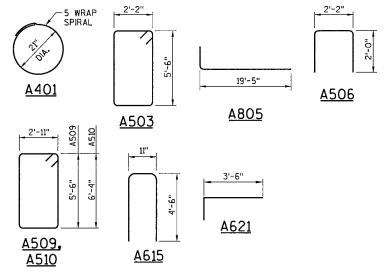
5019-00-70

NOTE: THE FIRST DIGIT OF THE BAR MARK SIGNIFIES THE ENGLISH BAR DIAMETER SIZE.

DIMENSIONS IN BENDING DETAILS ARE OUT TO OUT.

BILL OF BARS (FOR ONE ABUTMENT*) ABUTMENT*									
BAR MARK	cons	NO. REO'D.	LENGTH (FT-IN)		BEHT				
A401	<u> </u>	5	28 - 0		Х	BODY AT PILES			
A402		10	2 - 3			BODY AT PILES			
A503		42	15 - 11		Х	BODY STIRRUPS			
A604		11	33 - 8			BODY HORIZ			
A805		18	20 - 6		Х	BODY HORIZ BF			
A506		23	5 - 10		Х	BODY TOP TIE			
A407		5	33 - 8			BODY HORIZ TOP			
A508	Х	33	2 - 0			BODY DOWELS			
A509	Х	10	17 - 5		Х	WING 1 & 4 STIRRUPS			
A510	Х	12	19 - 1		Х	WING 2 & 3 STIRRUPS			
A611	Х	8	12 - 2			WING 1 & 4 HORIZ BF & TO			
A612	Х	9	14 - 2			WING 2 & 3 HORIZ BF & TO			
A513	Х	7	12 - 2			WING 1 & 4 HORIZ FF			
A514	Х	8	14 - 2			WING 2 & 3 HORIZ FF			
A615	Х	31	9 - 7		Х	ALL WINGS			
A416	Х	5	9 - 7			WING 1 & 4 HORIZ EF			
A417	Х	5	11 - 7			WING 2 & 3 HORIZ EF			
A618	Х	2	9 - 7			WING 1 & 4 HORIZ EF TOP			
A619	Х	2	11 - 7			WING 2 & 3 HORIZ EF TOP			
A620	Х	4	4 - 0			RAIL POST			
A621	Х	4	4 - 6		Х	RAIL POST			

* BAR LIST IS FOR ONE ABUTMENT. WEST ABUT AND EAST ABUT BAR LISTS ARE IDENTICAL.

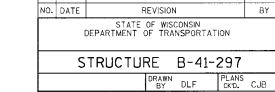


ABUTMENT NOTES

1) 2) 4) \Leftrightarrow = SEE ABUTMENT NOTES ON SHEET 4.

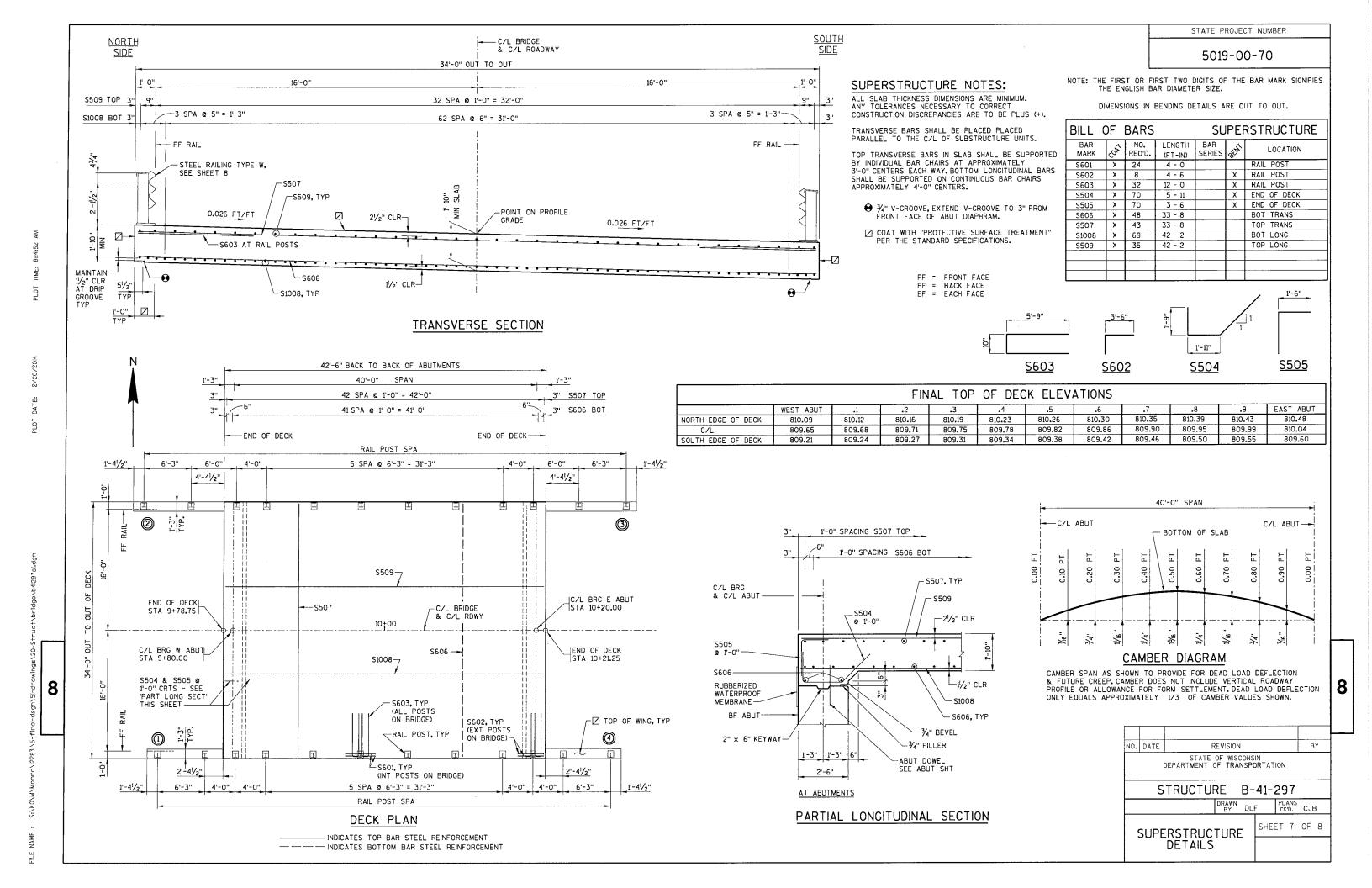
O INDICATES WING.

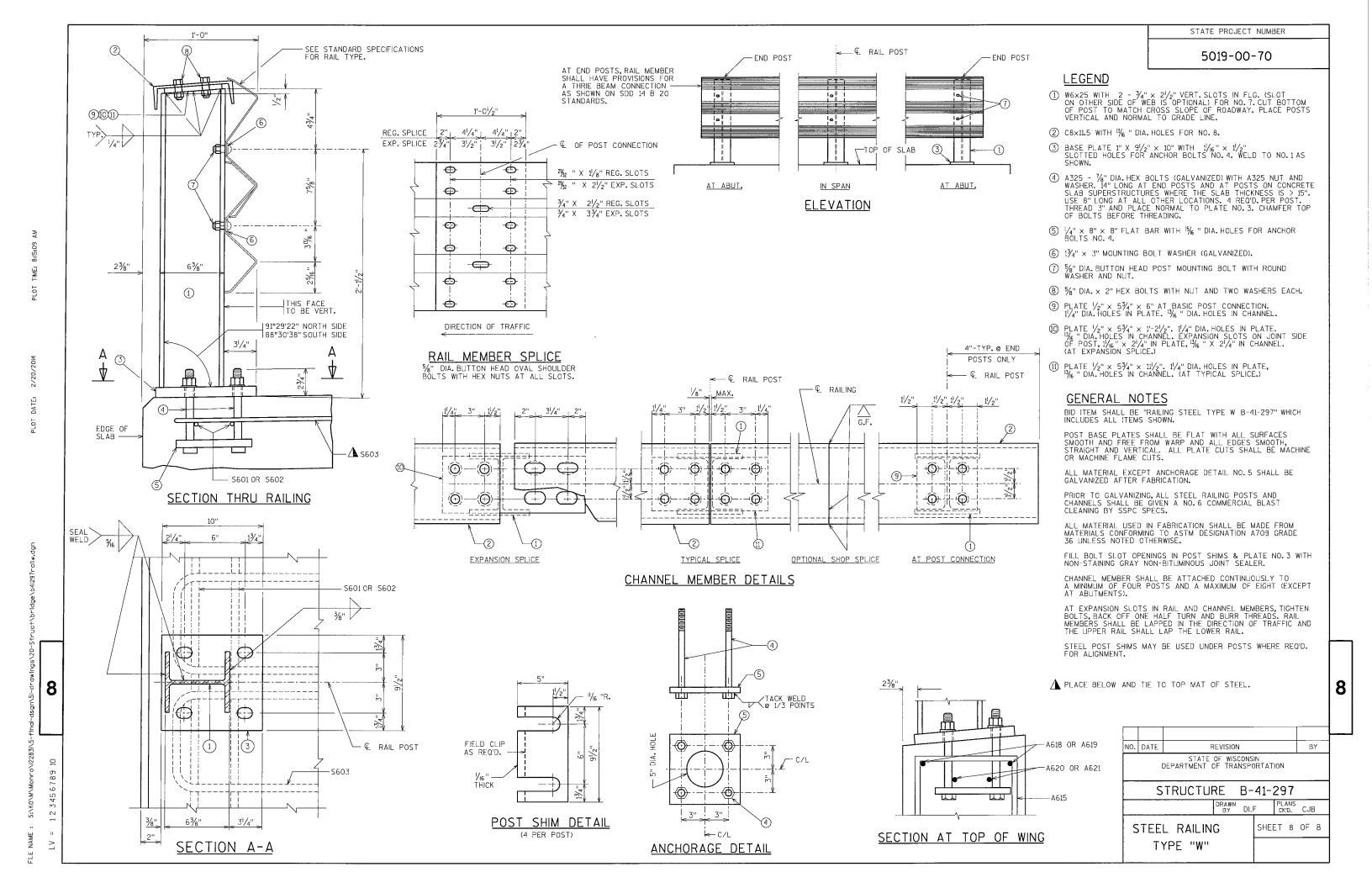
FF = FRONT FACE BF = BACK FACE EF = EACH FACE



SHEET 6 OF 8 ABUTMENT DETAILS

8



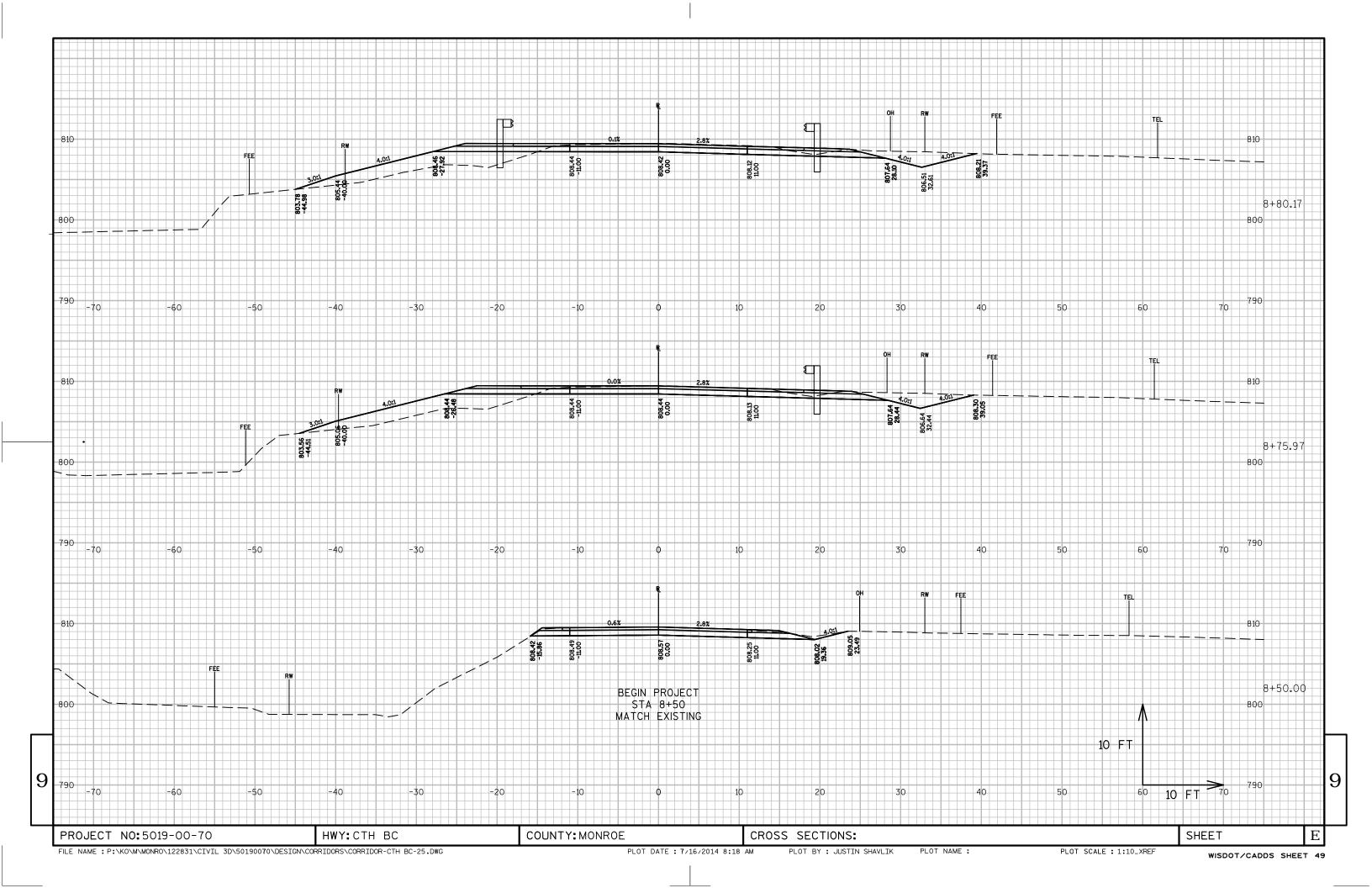


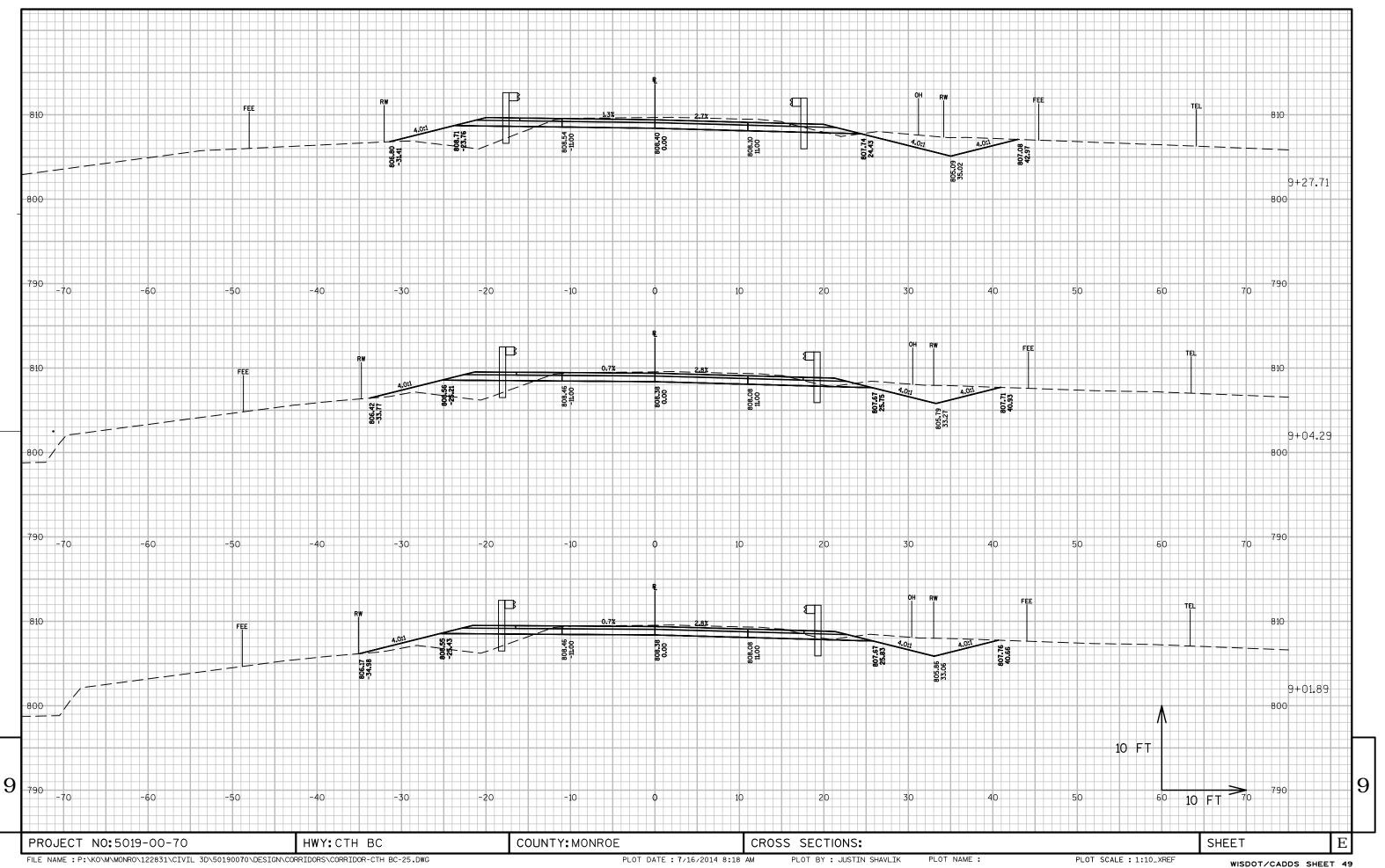
Station		AREA (SF)		Incremental Vol (CY) (Unadjus	Cumulative Vol (CY)		1	
	Distance	Cut	Fill	Cut Note 1	Fill Note 2	Cut 1.00 Note 1	Expanded Fill 1,30 Note 3	Mass Ordinate
8+49.00	0.00	0.0	0.0	0.0	0.0	0.0	0.0	0
8+50.00	1.00	33.0	0.0	0.6	0.0	1	0	1
8+75.97	25.97	49.0	39.5	39.4	19.0	40	25	15
8+80.17	4.20	50.0	40.3	7.7	6.2	48	33	15
9+01.89	21.72	5 5 .5	23.6	42.4	25.7	90	66	24 26
9+04.29	2.40	56.2	22.9	5.0	2.1	95	69	26
9+27.71	23.42	59.7	25.7	50.3	21.1	145	96	49
9+28.50	0.79	59.2	26.2	1.7	0.8	147	97	50
9+50.00	21.50	48.5	61.3	42.9	34.8	190	143	47
9+69.68	19.68	40.5	52.4	32.4	41.4	222	196	26
9+70.00	0.32	0.0	0.0	0.2	0.3	223	197	26
10+30.00		0.0	0.0	0.0	0.0	222	196	26
10+30.23		30.3	52.6	0.1	0.2	223	197	26
10+50.00	19.77	45.0	40.7	27.6	34.2	250	241	26 26 9 37
10+70.88	20.88	91.3	9.0	52.7	19.2	303	266	37
10+72.88		95.7	7.1	6.9	0.6	310	267	43
10+95.86	22.98	85.4	6.1	77. 1	5.6	387	274	1 1 3
10+97.86	2.00	85.0	6.0	6.3	0.4	393	275	1 1 8
11+20.84		78.0	5.6	69.4	4.9	463	281	181
11+22.84		76.7	5.7	5.7	0.4	468	282	187
11+40.00		33.0	0.0	34.9	1.8	503	284	219
11+41.00	1.00	0.0	0.0	0.6	0.0	504	284	220

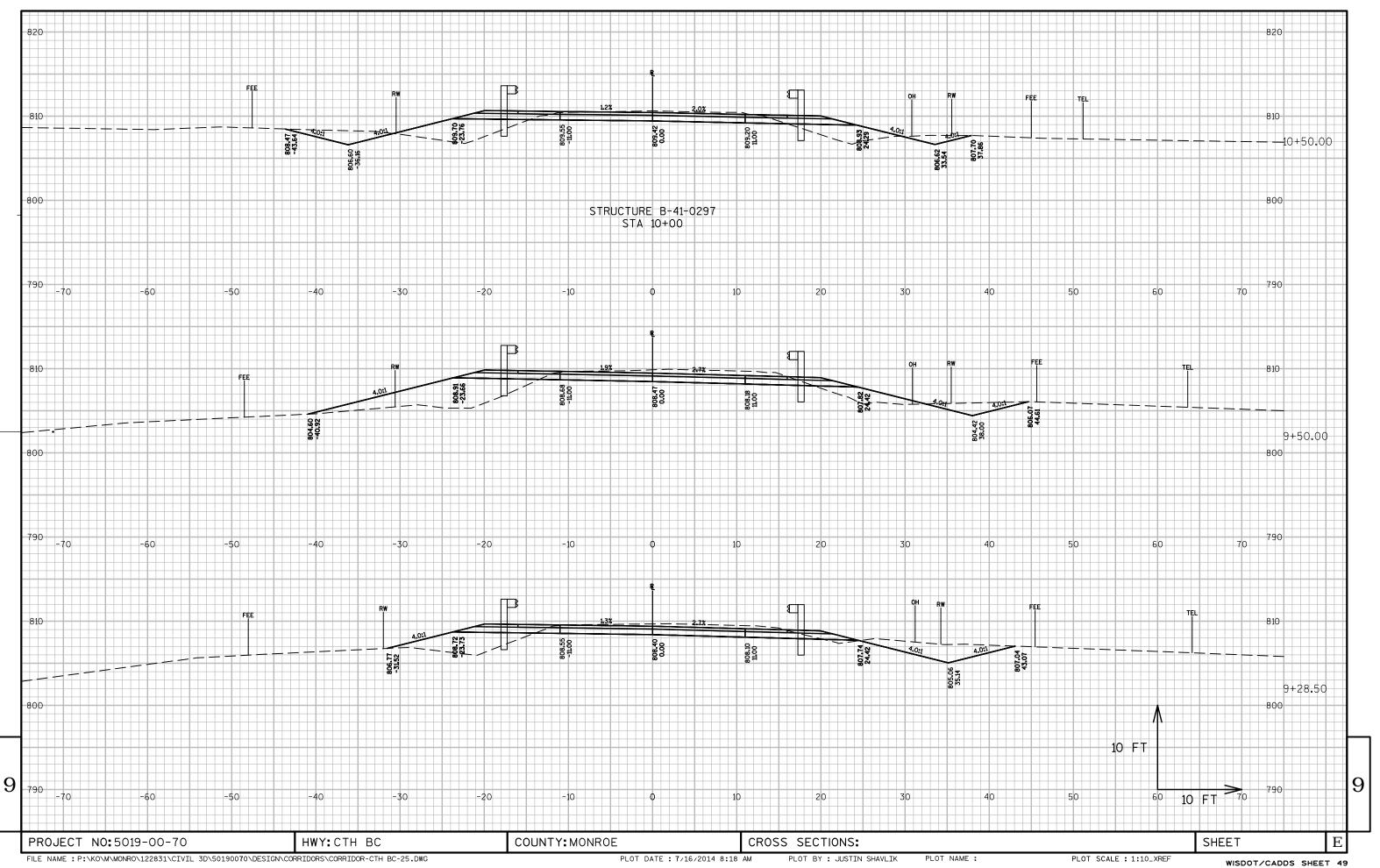
Notes:

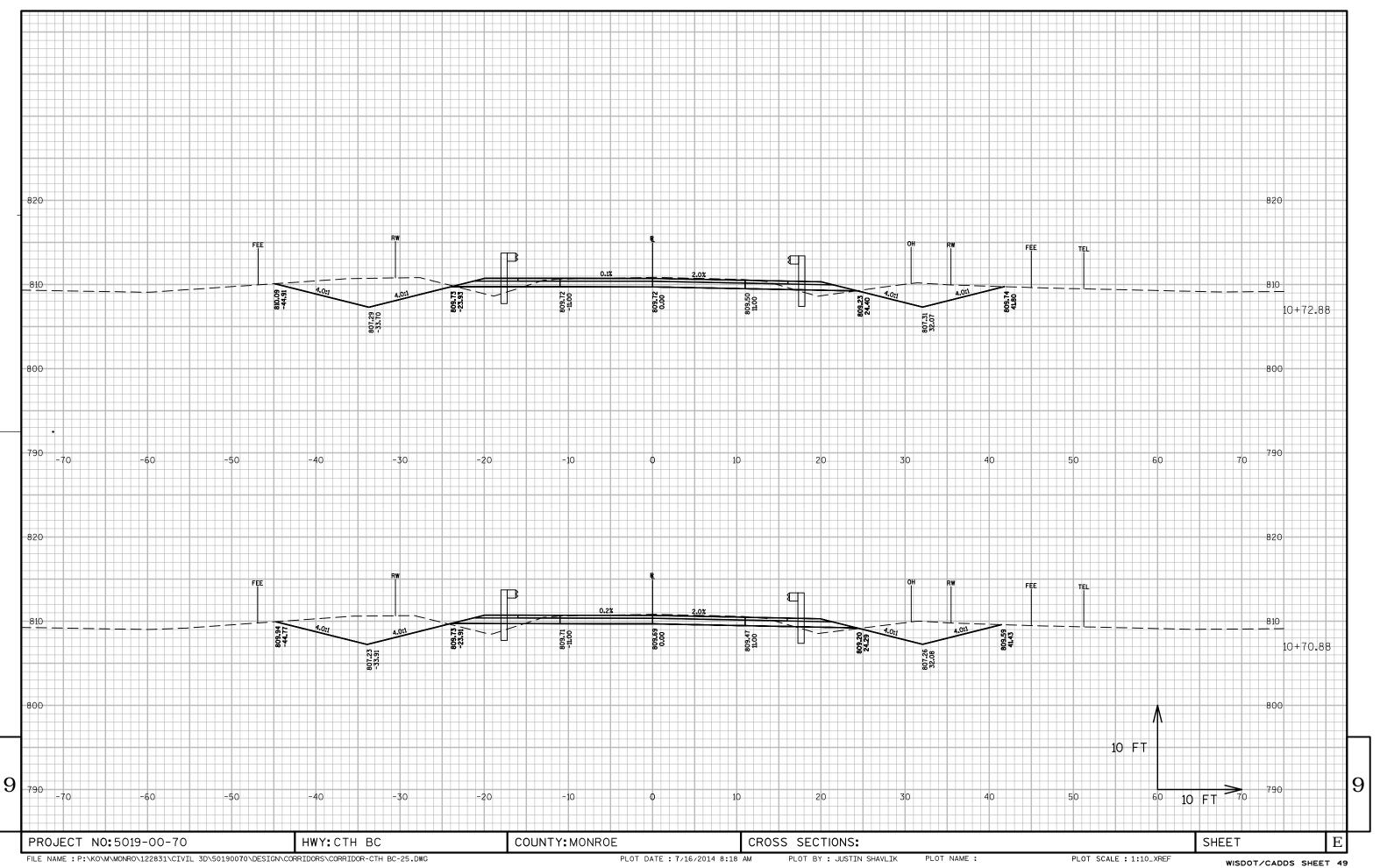
1) Salvaged/Unusable Pavement Material is included in Cut.
2) Does not include Unusable Pavement Excavation volume.
3) Will be backfilled with Cut or Borrow.
4) Plus quantity indicates an excess of material. Minus indicates a shortage of material.

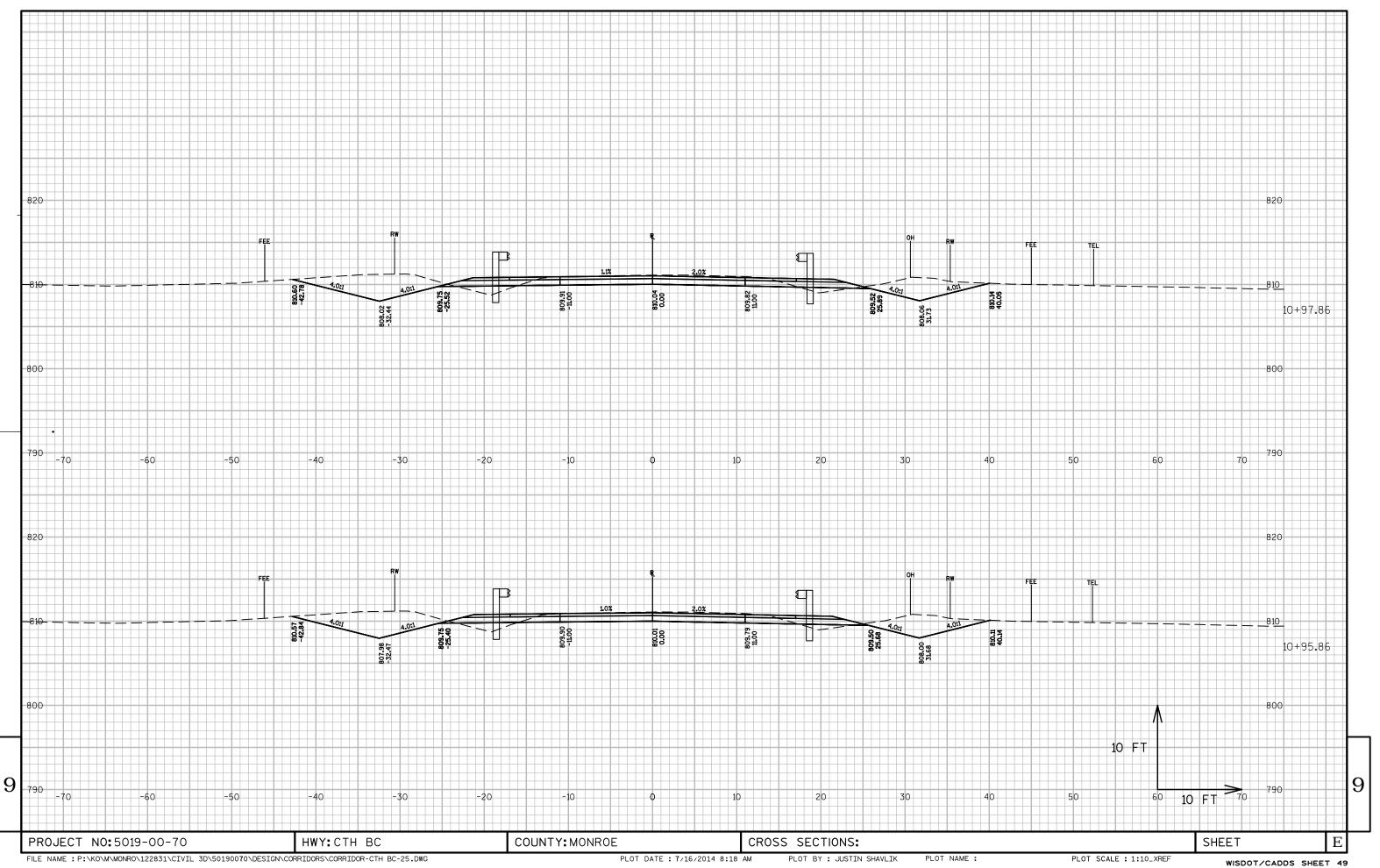
COUNTY: MONROE SHEET PROJECT NO:5019-00-70 HWY: CTH BC EARTHWORK TABULATIONS PLOT NAME :

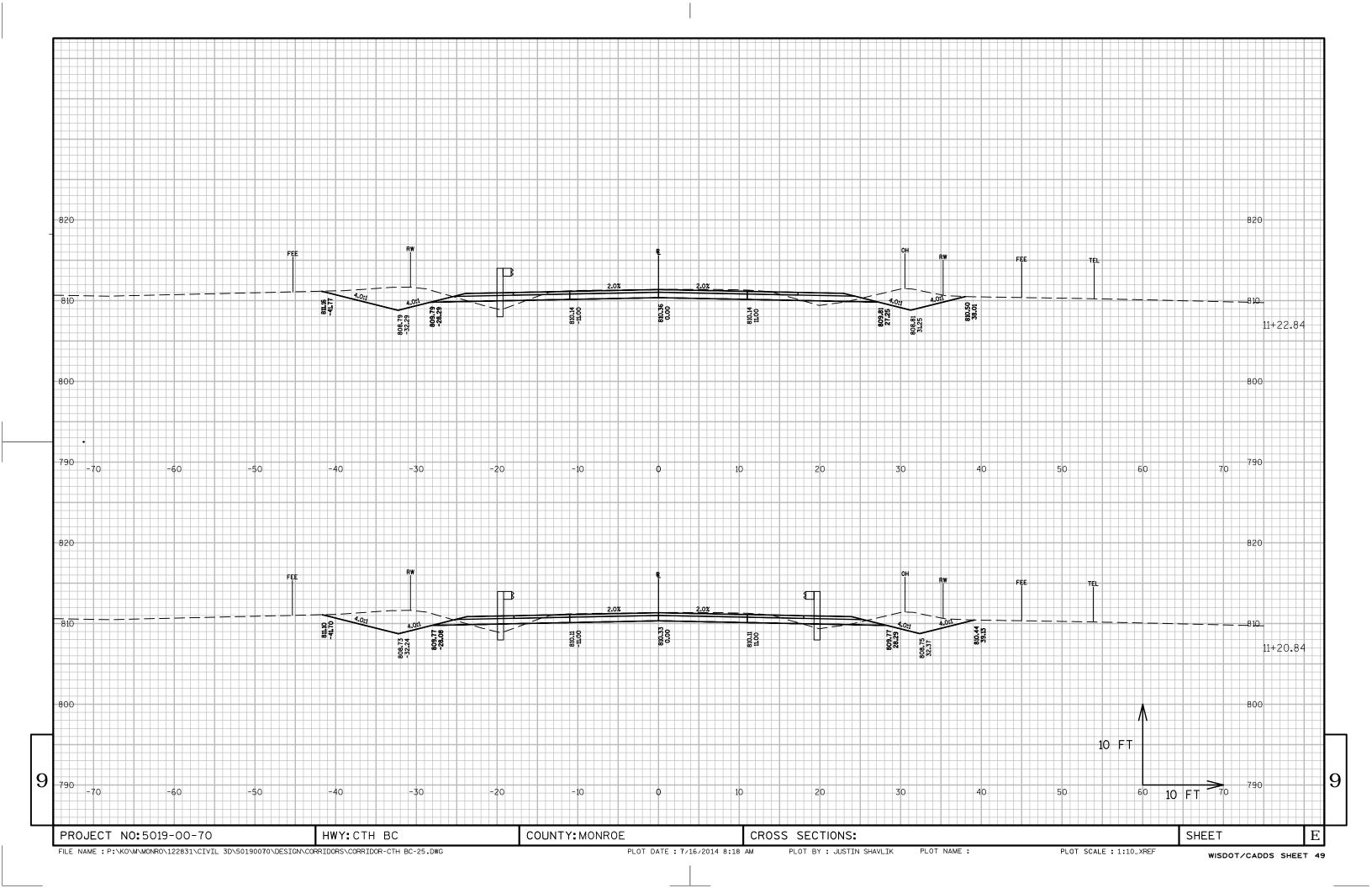


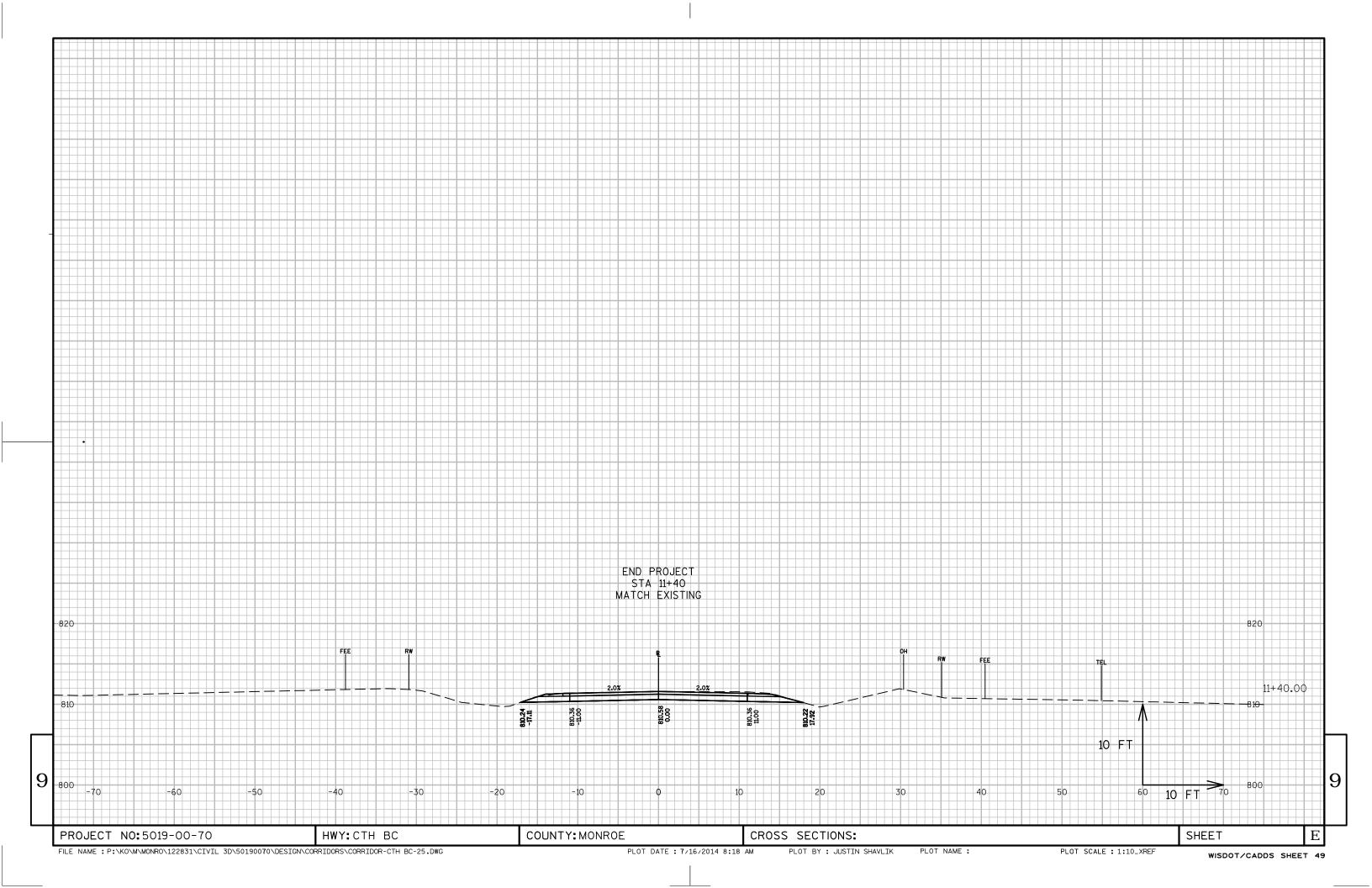


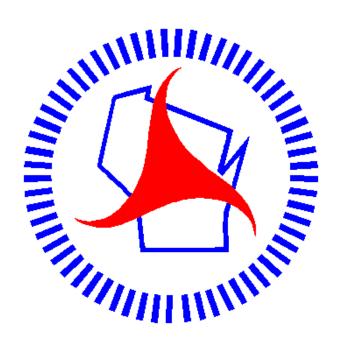












Wisconsin Department of Transportation

Dedicated people creating transportation solutions through innovation and exceptional service.

http://www.dot.wisconsin.gov