0

COUNTY: MONR 0

MAY 2014 ORDER OF SHEETS

Section No. 1 Section No. 2 Typical Sections and Details Estimate of Quantities Section No. 3 Miscellaneous Ouontities Section No. 3

Section No. 4 Right of Way Plat

Plan and Profile (includes erosion control plan)

Standard Detail Drowings

Section No. 7 Sign Plotes Section No. 8 Structure Plans

Section No. 9 Computer Earthwork Data

Cross Sections Section No. 9

TOTAL SHEETS = 34

DESIGN DESIGNATION

A.A.D.T. 2014 120 A.A.D.T. 2034 140 D.H.V. 2034 50 59/41 D. 6.8% DESIGN SPEED 40 mph ESALS 14.600

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

EXISTING CULVERT PROPOSED CULVERT (Box or Pipe) COMBUSTIBLE FLUIDS

MARSH AREA

WOODED OR SHRUB AREA EDGE OF STREAM RAILROAD FENCE

+++

PROFILE GRADE LINE

ORIGINAL GROUND MARSH OR ROCK PROFILE (To be noted as such) LABEL ____ SPECIAL DITCH GRADE ELEVATION

BEGIN PROJECT

STA, 9+20

Y = 389,379.72

X = 634.336.19

UTILITIES ELECTRIC

CULVERT (Profile View)

FIBER OPTIC SANITARY SEWER STORM SEWER TELEPHONE WATER Д UTILITY PEDESTAL POWER POLE ₫ TELEPHONE POLE

STATE OF WISCONSIN

DEPARTMENT OF TRANSPORTATION

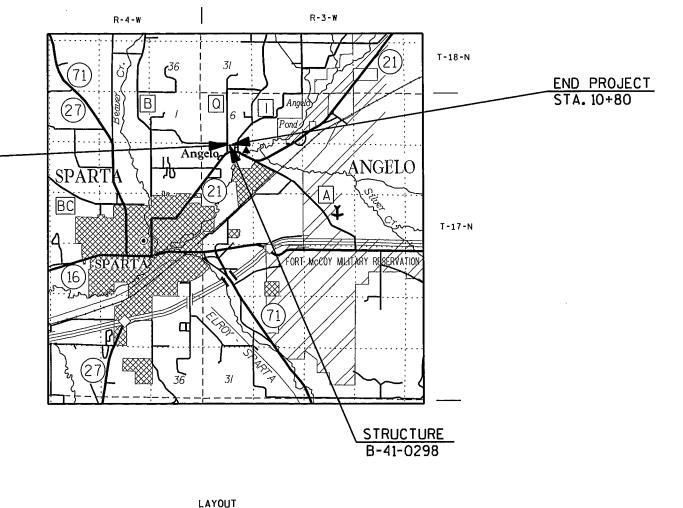
PLAN OF PROPOSED IMPROVEMENT

TOWN OF ANGELO, GATEWAY AVENUE

(HANSEN CREEK BRIDGE B-41-0298)

TOWN ROAD MONROE COUNTY

> STATE PROJECT NUMBER 5005-00-70



TOTAL NET LENGTH OF CENTERLINE = 0.030 MI.

Coordinates an this plan are referenced to the Wisconsin County Coordinate System (WCCS), Monroe County,

ACCEPTED FOR ACCEPTED FOR ORIGINAL PLANS PREPARED BY: MSA SCIENTINI SERVICIONI

CON SCIENTI SERVICIONI

CON SCIE STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION PREPARED BY MSA Professional Services, Inc. Surveyor MSA Professional Services, Inc. Designer Kjahnson Engineers, Inc. Consultant C,O. Examiner PPROVED FOR THE DEPARTMENT

FEDERAL PROJECT

CONTRACT

1

PROJECT

WISC 2014179

STATE PROJECT

5005-00-70

(Management Consultant Signature)

7/27/14 Kunby A. Jehn

STANDARD ABBREVIATIONS

AGG	AGGREGATE				SALVAGED
AUU		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
CB	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
СТН	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	T	TANGENT
C & G	CURB AND GUTTER	MH	MANHOLE	TEL	TELEPHONE
D	DEGREE OF CURVE	N	NORTH	TEMP	TEMPORARY
DHV	DESIGN HOUR VOLUME	Y	NORTH GRID COORDINATE	TLE	TEMPORARY LIMITED EASEMENT
DIA OR ø	DIAMETER	OΕ	OUTLET ELEVATION	T	TON
DIST	DISTRICT	OL	OUT LOT	TC	TOP OF CURB
DWY	DRIVEWAY	OD	OUTSIDE DIAMETER	TN	TOWN
Ē	EAST	OH	OVERHEAD LINES	TRANS	TRANSITION
X	EAST GRID COORDINATE	PAVT	PAVEMENT	T	TRUCKS (percent of)
EB	EASTBOUND	PLE	PERMANENT LIMITED EASEMENT	TYP	TYPICAL
ELEC	ELECTRIC	PC	POINT OF CURVATURE	UNCL	UNCLASSIFIED
EL OR ELEV	ELEVATION	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		

RUNOFF COEFFICIENT TABLE

		HYDROLOGIC SOIL GROUP										
		А			В		C 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:	I				ı							l
ASPHALT						.7095						
CONCRETE	.8095											
BRICK	.7080											
DRIVES, WALKS	.KS .7585											
ROOFS						.7595						
GRAVEL ROADS.	SHOULDE	ERS				.4060						

TOTAL PROJECT AREA = 0.26 ACRES
TOTAL AREA EXPECTED TO BE DISTURBED BY CONSTRUCTION ACTIVITIES = 0.17 ACRES

ATTN: LEAH J. RHODES, P.E. 1230 SOUTH BOULEVARD BARABOO, WI 53913 PHONE: 608-355-8945 Irhodes@msa-ps.com

DESIGN CONTACT

MSA PROFESSIONAL SERVICES, INC.

MONROE COUNTY ATTN: JACK DITTMAR, COMMISSIONER 803 WASHINGTON STREET SPARTA, WI 54656 PHONE 608-269-8740 jack.dittmar@co.monroe.wi.us

DNR LIAISON

DEPARTMENT OF NATURAL RESOURCES KAREN KALVELAGE ENVIRONMENTAL ANALYSIS AND REVIEW SPECIALIST 3550 MORMON COULEE ROAD LA CROSSE, WI 54601 PHONE: 608-785-9115 karen.kalvelage@wisconsin.gov

UTILITIES

BURIED TELEPHONE: CENTURYLINK ATTN: BRET CLARK 311 SOUTH COURT SPARTA, WI 54656 PHONE: 608-269-0819 bret.clark@centurytel.com

OVERHEAD ELECTRIC: XCEL ENERGY ATTN: KAYE CROOK 1003 SOUTH BLACK RIVER STREET SPARTA, WI 54656 PHONE: 608-789-3677 kaye.m.crook@xcelenergy.com

BURIED GAS: WE ENERGIES ATTN: BILL GARSKI 1921 8TH STREET SOUTH WISCONSIN RAPIDS, WI 54494 PHONE: 715-421-7259 bill.garski@we-energies.com

OVERHEAD COMMUNICATIONS: CHARTER COMMUNICATIONS ATTN: PERRY McCLELLAN 1228 12TH AVENUE SOUTH ONALASKA, WI 54650 PHONE: 715-370-7140 perry.mcclellan@chartercom.com

* - NOT A MEMBER OF DIGGERS HOTLINE.



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 AND PROPOSED UTILITY INSTALLATIONS AS SHOWN ON THE PLANS ARE APPROXIMATE. THERE MAY BE OTHER UTILITY INSTALLATIONS WITHIN THE AREA THAT ARE

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

ELEVATIONS SHOWN ON THIS PLAN ARE REFERENCED TO USGS NAVD 88,96 ADJUSTED. BENCHMARKS WERE LOCATED IN THE FIELD USING GPS TECHNOLOGY.

THE $3/\!\!/_2$ ASPHALTIC SURFACE SHALL CONSIST OF A $1\!\!/_4$ UPPER LAYER AND A $1\!\!/_4$ LOWER LAYER. USE $1/\!\!/_2$ NOMINAL AGGREGATE.

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

HWY: TOWN ROAD

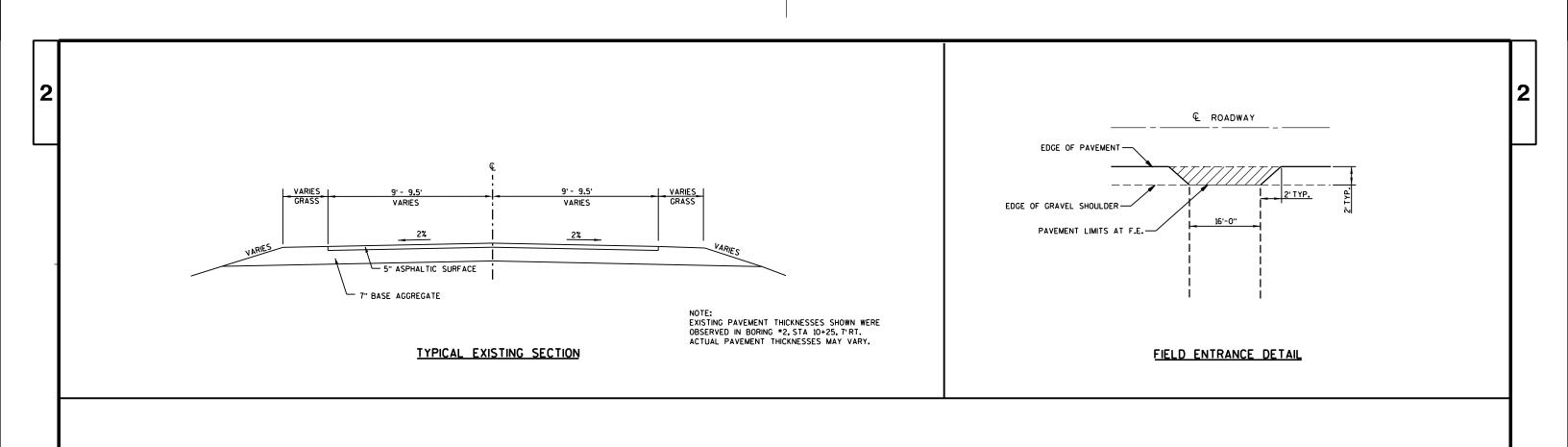
COUNTY: MONROE

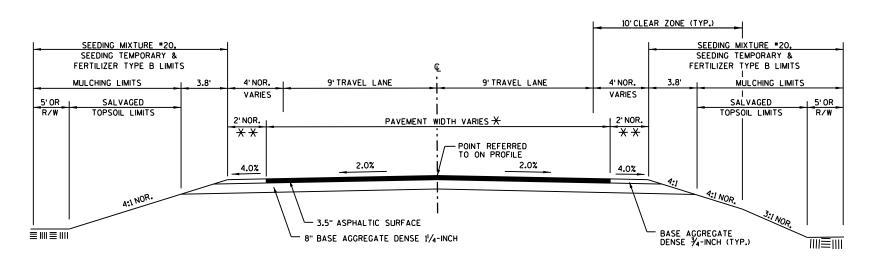
GENERAL NOTES, ABBREVIATIONS & UTILITIES

PLOT BY : 1rhodes

SHEET

PROJECT NO:5005-00-70



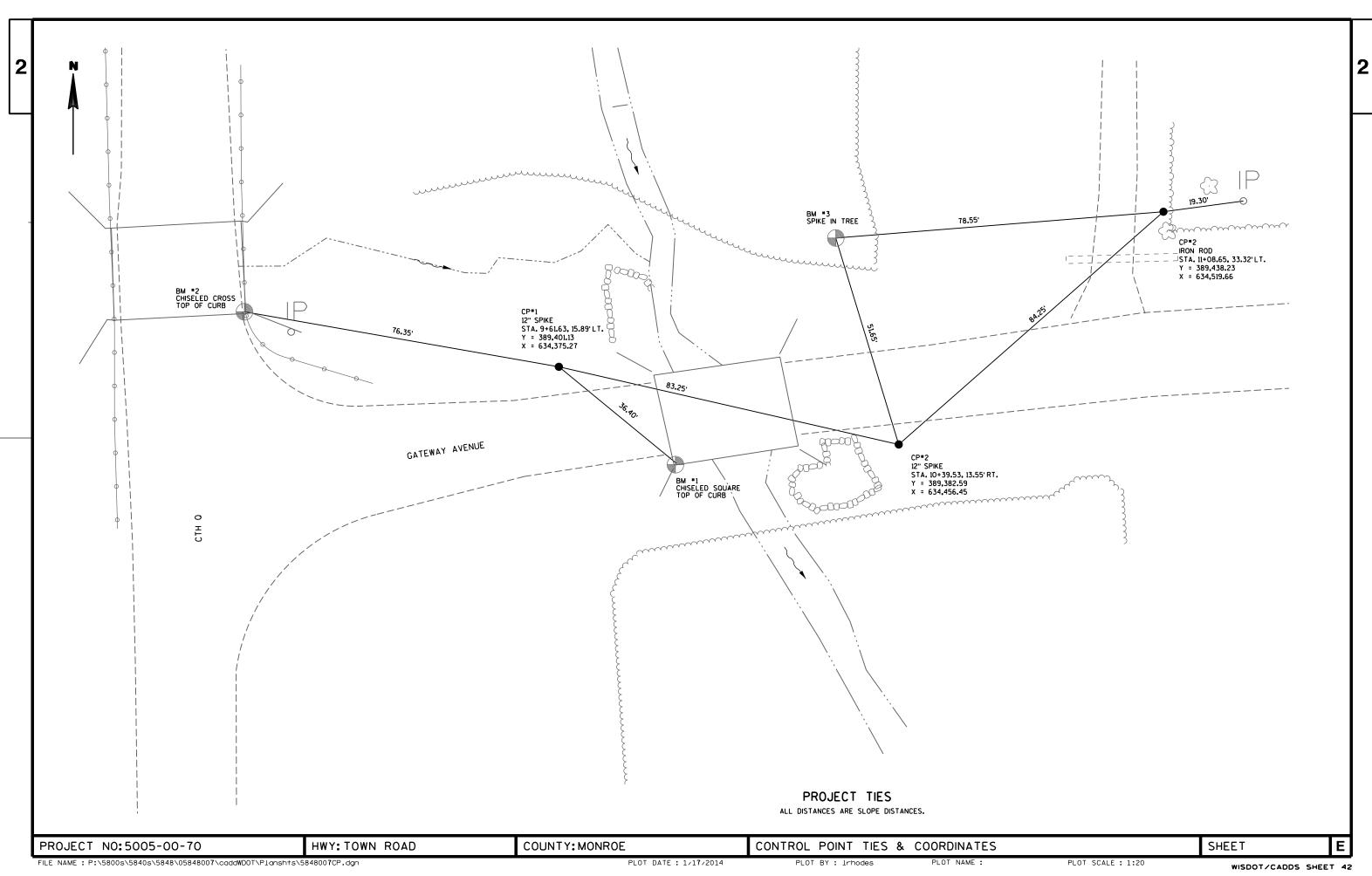


TYPICAL FINISHED SECTION

X 28.5'AT WEST END OF BRIDGE TAPERS TO ± 24.8'AT STA. 9+20. 28.5'AT EAST END OF BRIDGE TAPERS TO ± 19.2'AT STA. 10+80.

★ YARIES FROM 2'AT STA. 10+50 TO ± 3.5'AT STA. 10+80.

HWY: TOWN ROAD COUNTY: MONROE TYPICAL SECTIONS & DETAILS SHEET PROJECT NO:5005-00-70 PLOT NAME: FILE NAME: P:\5800s\5840s\5848\05848007\caddWDOT\Planshts\5848007XC.dgn PLOT DATE: 11/13/2013



DATE 11	IMAR14	EST	IMAT	E O F Q U A N	
LI NE NUMBER		I TEM DESCRIPTION	UNI T	TOTAL	5005-00-70 QUANTI TY
0010 0020	201. 0105 201. 0205	CLEARI NG GRUBBI NG	STA STA	1. 000 1. 000	1. 000 1. 000
0030		REMOVING OLD STRUCTURE OVER WATERWAY	LS	1. 000	1. 000
0040	205. 0100	WITH MINIMAL DEBRIS (STATION) 01. 10+00 EXCAVATION COMMON **P**	CY	125. 000	125. 000
0050	206. 1000	EXCAVATION FOR STRUCTURES BRIDGES	LS	1.000	1. 000
		(STRUCTURE) 01. B-41-0298			
0060 0070	210. 0100 213. 0100	BACKFILL STRUCTURE FINISHING ROADWAY (PROJECT) 01.	CY EACH	260. 000 1. 000	260. 000 1. 000
0070	213.0100	5005-00-70	EACH	1.000	1.000
0080 0090	305. 0110 305. 0120	BASE AGGREGATE DENSE 3/4-INCH BASE AGGREGATE DENSE 1 1/4-INCH	TON TON	13. 000 200. 000	13. 000 200. 000
0100	310. 0115	BASE AGGREGATE OPEN GRADED	CY	5. 000	5. 000
0110	455. 0605	TACK COAT	GAL	8. 000	8. 000
0110	465. 0105	ASPHALTIC SURFACE	TON	64. 000	64. 000
0130	502. 0100	CONCRETE MASONRY BRIDGES	CY	58. 000	58. 000
0140 0150	502. 3200 503. 0128	PROTECTIVE SURFACE TREATMENT PRESTRESSED GIRDER TYPE I 28-INCH	SY LF	58. 000 180. 000	58. 000 180. 000
0160 0170	505. 0405 505. 0605	BAR STEEL REINFORCEMENT HS BRIDGES BAR STEEL REINFORCEMENT HS COATED	LB LB	4, 120. 000 12, 570. 000	4, 120. 000 12, 570. 000
		BRI DGES			,
0180 0190	506. 2605 506. 4000	BEARING PADS ELASTOMERIC NON-LAMINATED STEEL DIAPHRAGMS (STRUCTURE) 01.	EACH EACH	8. 000 3. 000	8. 000 3. 000
		B-41-0298			
0200	509. 5100. S	POLYMER OVERLAY	SY	148. 000	148. 000
0210	513. 4060	RAILING TUBULAR TYPE M (STRUCTURE) 01.	LS	1. 000	1. 000
0220	516. 0500	B-41-0298 RUBBERIZED MEMBRANE WATERPROOFING	SY	20. 000	20. 000
0230	550. 1100	PILING STEEL HP 10-INCH X 42 LB	LF	770. 000	770. 000
0240	606. 0300	RIPRAP HEAVY	CY LF	165. 000 180. 000	165.000
0250	612. 0406	PIPE UNDERDRAIN WRAPPED 6-INCH	LF 	180. 000	180. 000
0260	619. 1000	MOBILIZATION	EACH	1.000	1.000
0270 0280	625. 0500 627. 0200	SALVAGED TOPSOIL **P** MULCHING **P**	SY SY	130. 000 180. 000	130. 000 180. 000
0290	628. 1504	SILT FENCE	LF	500.000	500.000
0300	628. 1520	SILT FENCE MAINTENANCE	LF	500.000	500.000
0310	628. 1905	MOBILIZATIONS EROSION CONTROL	EACH	2.000	2. 000
0320	628. 1910 628. 2008	MOBILIZATIONS EMERGENCY EROSION CONTROL EROSION MAT URBAN CLASS I TYPE B	EACH SY	2. 000 130, 000	2. 000
0330 0340		FERTILIZER TYPE B **P**	CWT	130. 000 1. 000	130. 000 1. 000
0350	630. 0120	SEEDING MIXTURE NO. 20 **P**	LB	15. 000	15. 000
0360	630. 0200	SEEDING TEMPORARY **P**	LB	15. 000	15. 000
0370	633. 5100	MARKERS ROW	EACH	5. 000	5. 000
0380 0390	634. 0612 637. 2230	POSTS WOOD 4X6-INCH X 12-FT SIGNS TYPE II REFLECTIVE F	EACH SF	4. 000 12. 000	4. 000 12. 000
0400	638. 2602	REMOVING SIGNS TYPE II	EACH	4. 000	4. 000
0410	638. 3000	REMOVING SMALL SIGN SUPPORTS	EACH	4. 000	4. 000
0420	642. 5001	FIELD OFFICE TYPE B	EACH	1. 000	1. 000
0430 0440	643. 0100 645. 0120	TRAFFIC CONTROL (PROJECT) 01. 5005-00-70 GEOTEXTILE FABRIC TYPE HR	EACH SY	1. 000 310. 000	1. 000 310. 000
0450	650. 4500	CONSTRUCTION STAKING SUBGRADE	LF	114. 000	114. 000
0460	650. 5000	CONSTRUCTION STAKING BASE	 LF	114. 000	114.000
0470	650. 6500	CONSTRUCTION STAKING STRUCTURE LAYOUT	LS	1. 000	1. 000
		(STRUCTURE) 01. B-41-0298			

DATE 1	1MAR14	E	STIMATE	OF QUAN	
LI NE NUMBER	ITEM	ITEM DESCRIPTION	UNI T	TOTAL	5005-00-70 QUANTI TY
0480	650. 9910	CONSTRUCTION STAKING SUPPLEMENTAL CONTROL (PROJECT) 01. 5005-00-70	LS	1. 000	1. 000
0490	650. 9920	CONSTRUCTION STAKING SLOPE STAKES	LF	114.000	114.000
0500	690. 0150	SAWING ASPHALT	LF	44. 000	44. 000
0510 0520	715. 0502 SPV. 0035	INCENTIVE STRENGTH CONCRETE STRUCTURES SPECIAL 01. SPECIAL FIBER REINFORCED CONCRETE MASONRY FOR BRIDGES, STRCT B-41-0298	S DOL CY	642. 000 49. 000	642. 000 49. 000

				CLEARING	GRUBBING
STATION	-	STATION	LOCATION	STA	STA
10+00	-	11+00	LT & RT	1	1
		TOTALS:		1	1

205.0100 EXCAVATION COMMON **P**

			EXC. COMMON	FILL	EXPANDED FILL	WASTE
STATION	-	STATION	CY	CY (1)	CY (2)	CY
9+20	-	9+76.71	73	0	0	73
10+23.29	-	10+80	52	42	55	-3
		TOTALS:	125	42	55	70

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

(2) - FILL EXPANSION 30%

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

			BASE	BASE
			AGGREGATE	AGGREGATE
			DENSE	DENSE
			3/4-INCH	1 1/4-INCH
STATION	-	STATION	TON	TON
9+20.00	-	9+76.71	6	100
10+23.29	-	10+80.00	7	100
		TOTALS:	13	200
9+20.00	-	9+76.71 10+80.00	7	100 100

455.0605 TACK COAT 465.0105 ASPHALTIC SURFACE

			TACK COAT	ASPHALTIC SURFACE
STATION	-	STATION	GAL	TON
9+20.00	-	9+76.71	4	34
10+23.29	-	10+80.00	4	30
9+50, RT	-	F.E.	0	1
		TOTALS:	8	64

625.0500 SALVAGED TOPSOIL **P**

627.0200 MULCHING **P**

629.0210 FERTILIZER TYPE B **P**

630.0120 SEEDING MIXTURE NO. 20 **P**

630.0200 SEEDING TEMPORARY **P**

					SALVAGED TOPSOIL	MULCHING	FERTILIZER	SEEDING #20	SEEDING TEMPORARY
	STATION	-	STATION	LOCATION	SY	SY	CWT	LB	LB
	9+20	-	9+80	LT	10	30	0.05	2	2
	9+20	-	10+00	RT	10	45	0.05	2	2
	9+90	-	10+80	LT	15	40	0.10	3	3
	10+20	-	10+80	RT	65	40	0.05	2	2
_	UNDI	STRIBU	ITED		30	25	0.75	6	6
_			TOTALS:		130	180	1	15	15

628.1504 SILT FENCE

628.1520 SILT FENCE MAINTENANCE

				FENCE	MAINT.
STATION	-	STATION	LOCATION	LF	LF
9+20.00	-	10+00.00	LT & RT	220	220
10+00.00	-	10+80.00	LT & RT	235	235
UNDI	STRIB	UTED	-	45	45
			TOTALS:	500	500

628.2008 EROSION MAT URBAN CLASS I TYPE B

				URBAN CLASS I TYPE B
STATION	-	STATION	LOCATION	SY
9+20	-	9+60	LT	11
9+56		9+80	RT	8
10+21		10+80	LT	15
10+33		10+80	RT	65
UNDI	STRIBL	JTED		31
			TOTALS:	130

P - PAY PLAN QUANTITY

PROJECT NO: 5005-00-70 HWY: TOWN ROAD FILE NAME ; P:\5800s\5840s\5848\05848007\Estimate\5848007_MiscOty & Earthwork Borders.dgn COUNTY: MONROE

MISCELLANEOUS QUANTITIES

PLOT BY : Irhodes

SHEET PLOT SCALE : 1:20

5848007_MiseQty & Earthwork Borders.dgn 11/13/2013 9:00:19 AM lrhodes

PLOT DATE : 11/13/2013

PLOT NAME :

WISDOT/CADDS SHEET 43

STATION	OFFSET	LOCATION	EACH
8+92.21	27.10	RT	1
8+99.27	32.90	LT	1
9+20.00	27.10	RT	1
10+55.00	44.00	RT	1
10+80.00	27.10	RT	1
		TOTAL:	5

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

		SIGN	WOOD POSTS	SIGNS REFECTIVE	REMOVING SIGNS TYPE II	REMOVING SMALL SIGN SUPPORTS	
STATION	LOCATION	CODE	EACH	SF	EACH	EACH	COMMENTS
9+72	LT	W5-52L	1	3	-	-	OBJECT MARKER
9+75	RT	-	-	-	-	-	WEIGHT LIMIT POSTING (REMOVED BY TOWN)
9+80	RT	W5-52R	1	3	-	-	OBJECT MARKER
9+82	LT & RT	-	-	-	2	2	OBJECT MARKERS AT EXISTING BRIDGE
10+18	LT & RT	-	-	-	2	2	OBJECT MARKERS AT EXISTING BRIDGE
10+20	LT	W5-52R	1	3	-	-	OBJECT MARKER
10+25	LT	-	-	-	-	-	WEIGHT LIMIT POSTING (REMOVED BY TOWN)
10+28	RT	W5-52L	1	3	-	-	OBJECT MARKER
		TOTALS:	4	12	4	4	

650.4500 CONSTRUCTION STAKING SUBGRADE

650.5000 CONSTRUCTION STAKING BASE

650.9910 CONSTRUCTION STAKING SUPPLEMENTAL CONTROL 5005-00-70 650.9920 CONSTRUCTION STAKING SLOPE STAKES

STATION	-	STATION	SUBGRADE LF	BASE LF	SUPPLEMENTAL CONTROL LS	SLOPE STAKES LF
9+20	-	9+76.71	57	57	-	57
10+23.29	-	10+80	57	57	-	57
		TOTALS:	114	114	1	114

690.0150 SAWING ASPHALT

STATION	LF
9+20	25
10+80	19
TOTAL:	44

PROJECT NO: 5005-00-70 HWY: TOWN ROAD FILE NAME ; P:\5800s\5840s\5848\05848007\Estimate\5848007_MiscOty & Earthwork Borders.dgn

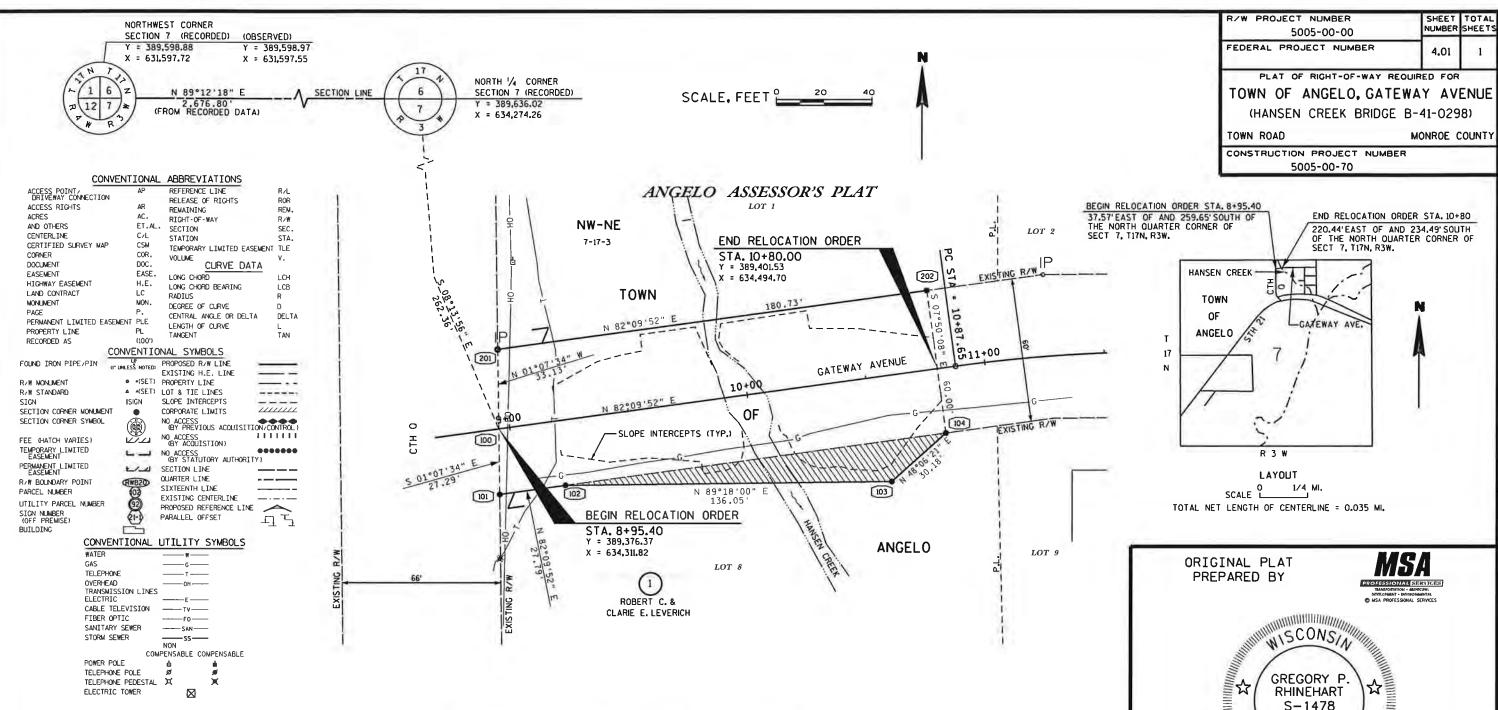
COUNTY: MONROE PLOT DATE : 11/13/2013 MISCELLANEOUS QUANTITIES PLOT BY : Irhodes

PLOT NAME :

PLOT SCALE : 1:20

SHEET

WISDOT/CADDS SHEET 43



NOTES

POSITIONS SHOWN ON THIS PLAT ARE WISCONSIN COUNTY COORDINATES, MONROE COUNTY NAD 83 (2011) IN US SURVEY FEET. VALUES SHOWN ARE GRID COORDINATES, GRID BEARINGS AND GRID DISTANCES. GRID DISTANCES MAY BE USED AS GROUND DISTANCES.

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

RIGHT-OF-WAY BOUNDARIES ARE DEFINED WITH COURSES OF THE PERIMETER OF THE HIGHWAY LANDS REFERENCED TO THE U.S. PUBLIC LAND SURVEY SYSTEM OR OTHER "SURVEYS OF PUBLIC RECORD".

POINT NUMBER	Y	×				
* 100	389.376.37	634.311.82				
101	389,349.08	634.312.36				
102	389.352.87	634.339.89				
103	389.354.53	634.475.93				
104	389,374.69	634,498.39				
201	389.409.48	634,311.17				
202	389,434.12	634,490.21				

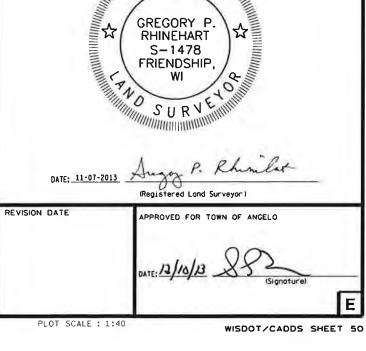
POINT	STATION	OFFSET					
¥ 100	8+95.40	0.00 C/L					
101	8+92.21	27.10' RT.					
102	9+20.00	27.10' RT					
103	10+55.00	44.00' RT.					
104	10+80.00	27.10' RT.					
201	8+99.27	32.90' LT.					
202	10+80.00	32.90' LT.					

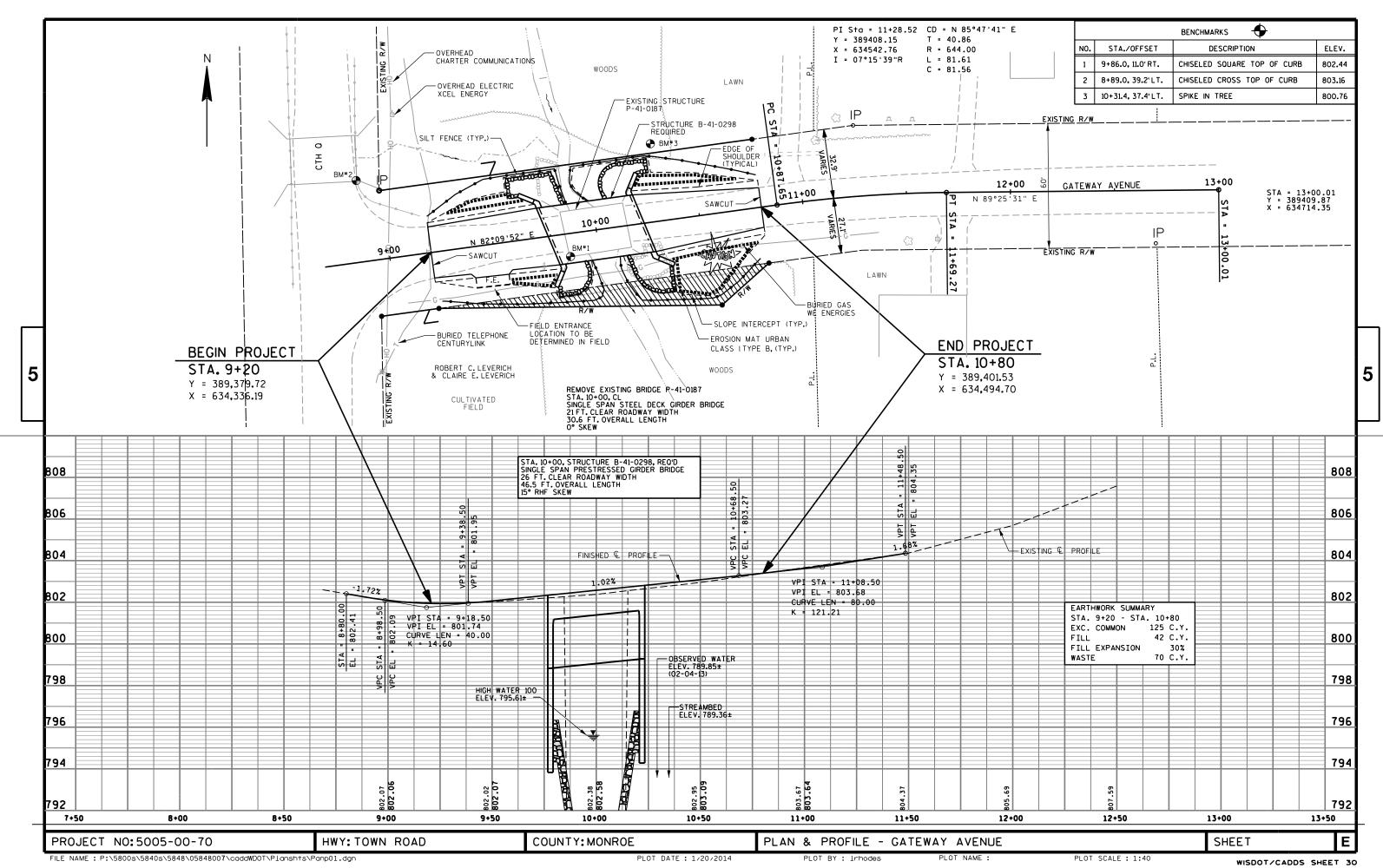
NOTE: EXISTING HIGHWAY R/W ESTABLISHED FROM ASSESSOR'S PLAT FOR THE TOWN OF ANCELO, EXISTING SECTION CORNERS AND IRONS LOCATED IN THE FIELD.

* - NON-MONUMENTED POINT

NOTE: INVERSING BETWEEN COORDINATES, IN CLOSE PROXIMITY WITH EACH OTHER, MAY NOT REPLICATE THE BEARINGS AND DISTANCES SHOWN ON THIS PLAT.

SCHED	ULE OF LANDS & INTERES	TS REQUIRED	OWNER'S NAMES ARE SHOWN FOR REFERENCE PURPOSES ONLY AND ARE SUBJECT TO CHANGE PRIOR TO THE TRANSFER OF LAND INTERESTS TO THE TOWN.						
PARCEL NUMBER	OWNER	INTEREST REQUIRED	R/W S	SOUARE FEET REC EXISTING	DUIRED TOTAL	TLE S.F.			
1	ROBERT C. & CLAIRE E. LEVERICH	FEE	1,352	0	1,352				
2									





Standard Detail Drawing List

08E09-06	SILT FENCE
I2A03-10	NAME PLATE (STRUCTURES)
I5A01-11	MARKER POST FOR RIGHT-OF-WAY
I5C02-05A	BARRICADES AND SIGNS FOR MAINLINE CLOSURES
15C02-05B	BARRICADES AND SIGNS FOR MAINLINE CLOSURES
15006-06	SIGNING & MARKING FOR TWO LANE BRIDGES

6

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TYPICAL APPLICATION OF SILT FENCE

6

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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.

- 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 ∞





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

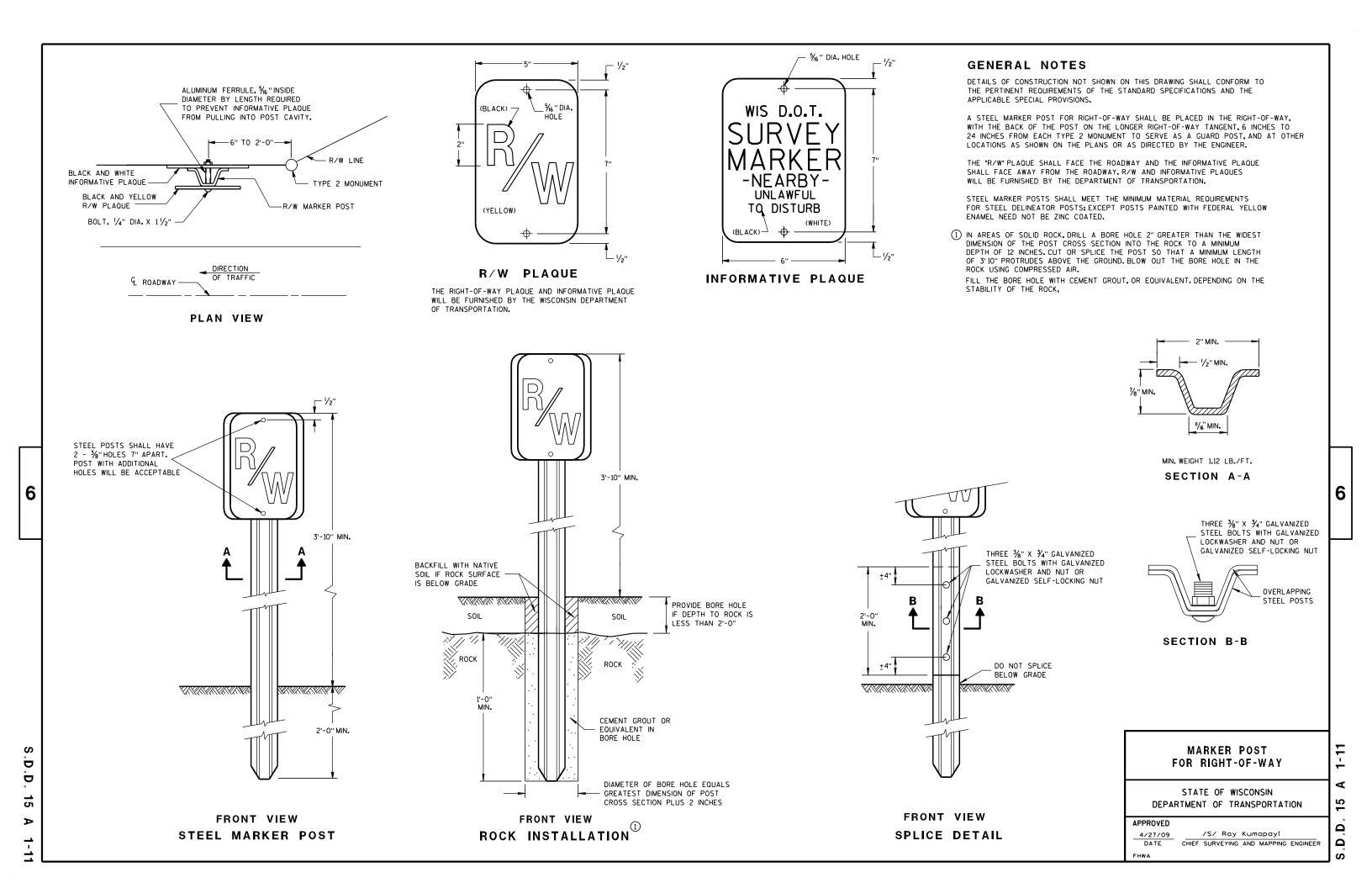
(FOR ATTACHMENT TO PRECAST STRUCTURES)

NAME PLATE (STRUCTURES)

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

APPROVED

 D. 12 A 3-10





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.

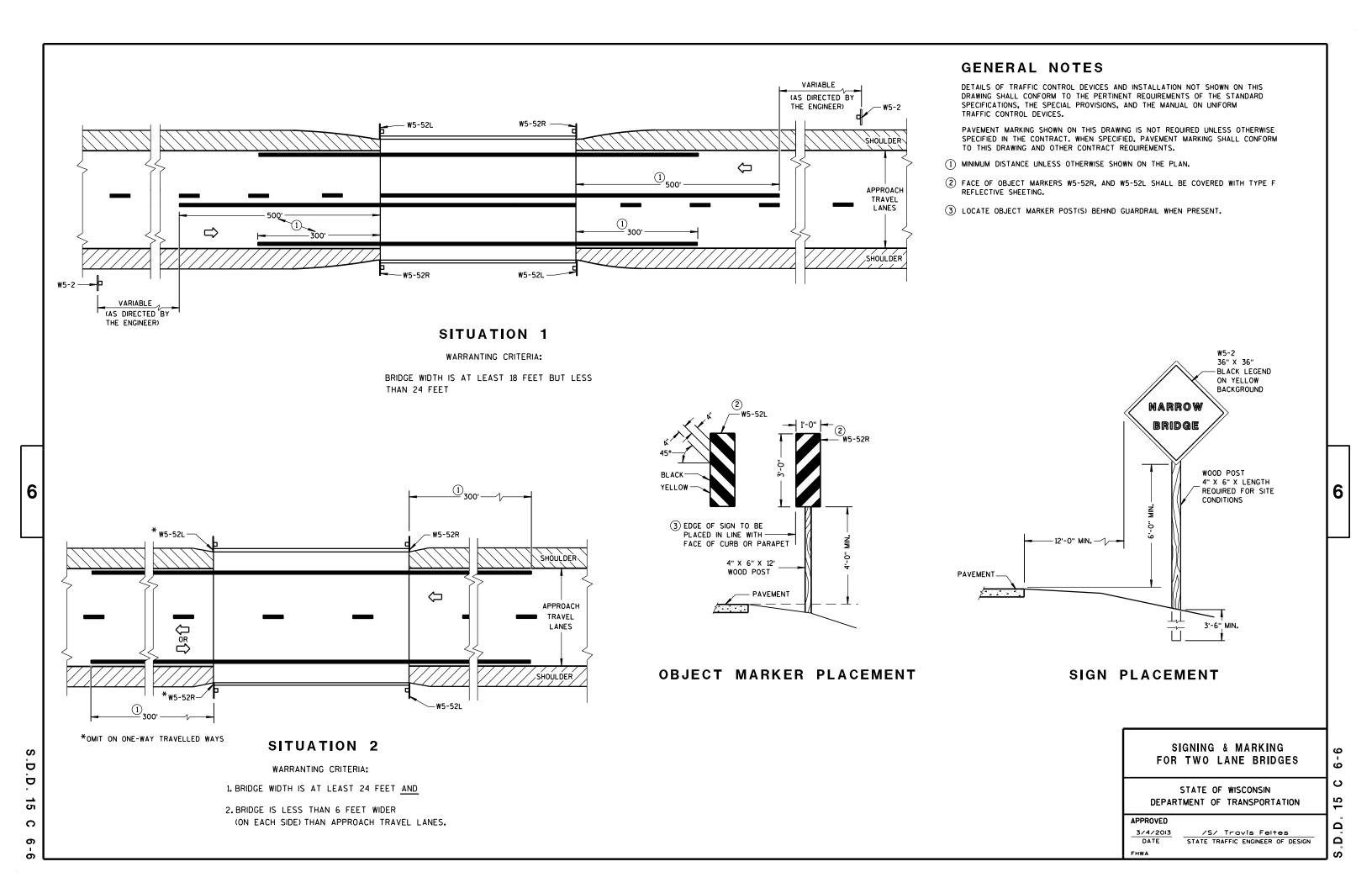
BARRICADES AND SIGNS FOR MAINLINE CLOSURES

STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION

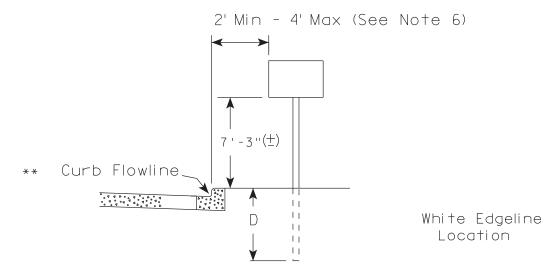
/S/ Travis Feltes STATE TRAFFIC ENGINEER OF DESIGN

2

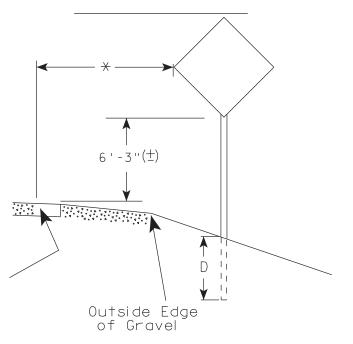
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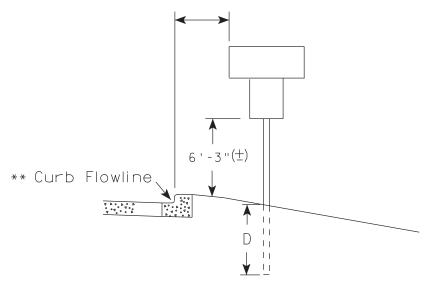
URBAN ARFA



RURAL AREA (See Note 2)



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



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

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

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

HWY:

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

GENERAL NOTES

- 1. Signs wider than 4 feet, 20 sq.ft or larger, shall be mounted on multiple posts. Refer to plate A4-4.
- 2. If signs are mounted on barrier wall, see A4-10 sign plate.
- 3. For expressways and freeways, mounting height is 7'- 3" (+) or 6'-3" (+) depending upon existence of a sub-sign.
- 4. Minimum mounting height for J assemblies (A4-5) 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" (+).
- 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'' (\pm). The Chevron sign (W1-8), Roundabout Chevron panel (R6-4B), Enhanced Reference Markers, Clearance Markers (W5-52), Mile Markers (D10 series) & End of Rod Markers (W5-56 & W5-56A) shall be mounted at a height of 4'-3" (+).

POST EMBEDMENT DEPTH

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

PLOT NAME :

TYPICAL INSTALLATION OF PERMANENT TYPE II SIGNS ON SINGLE POSTS

WISCONSIN DEPT OF TRANSPORTATION

SHEET NO:

APPROVED

for State Traffic Engineer

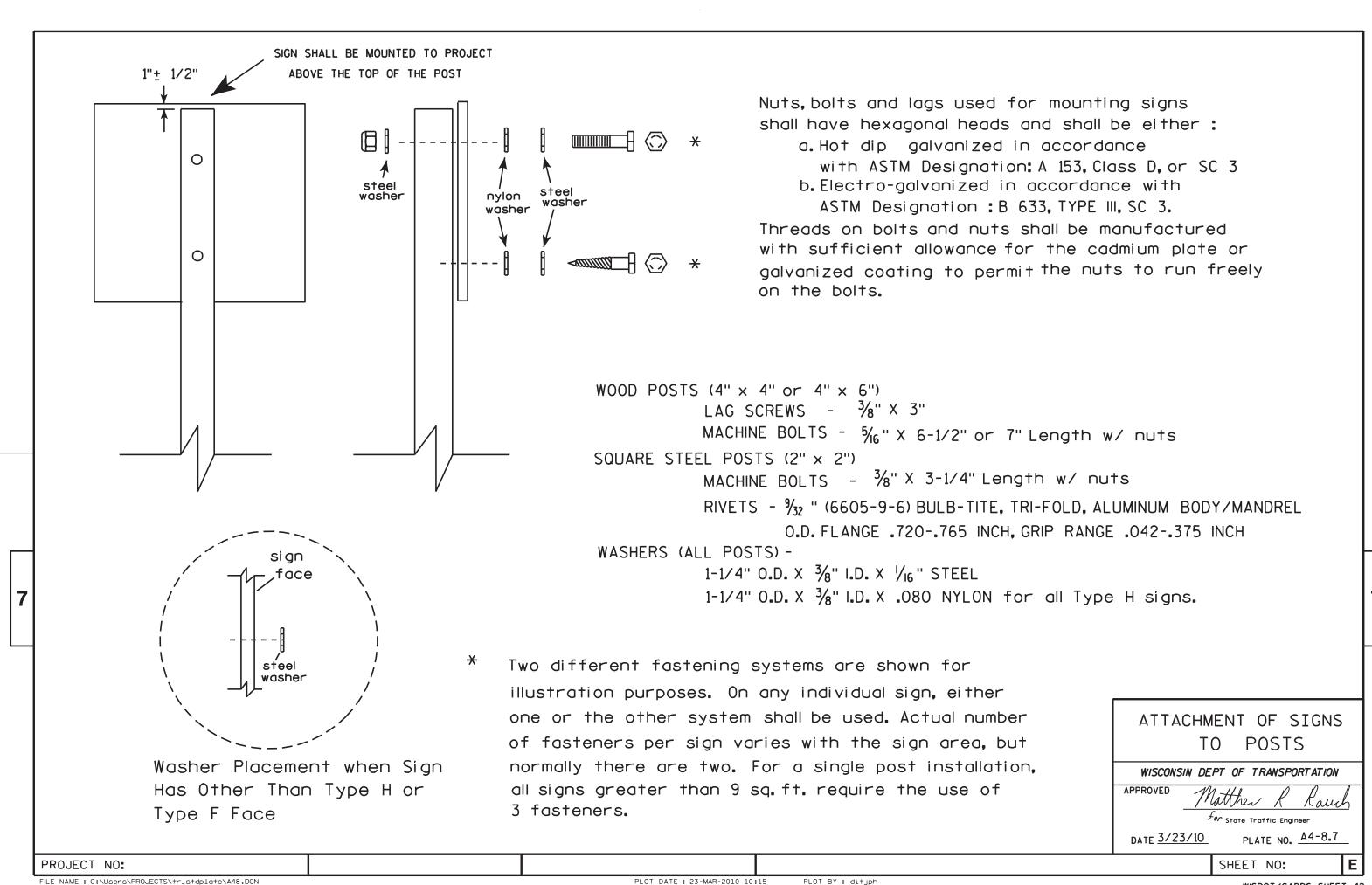
DATE 9/30/13

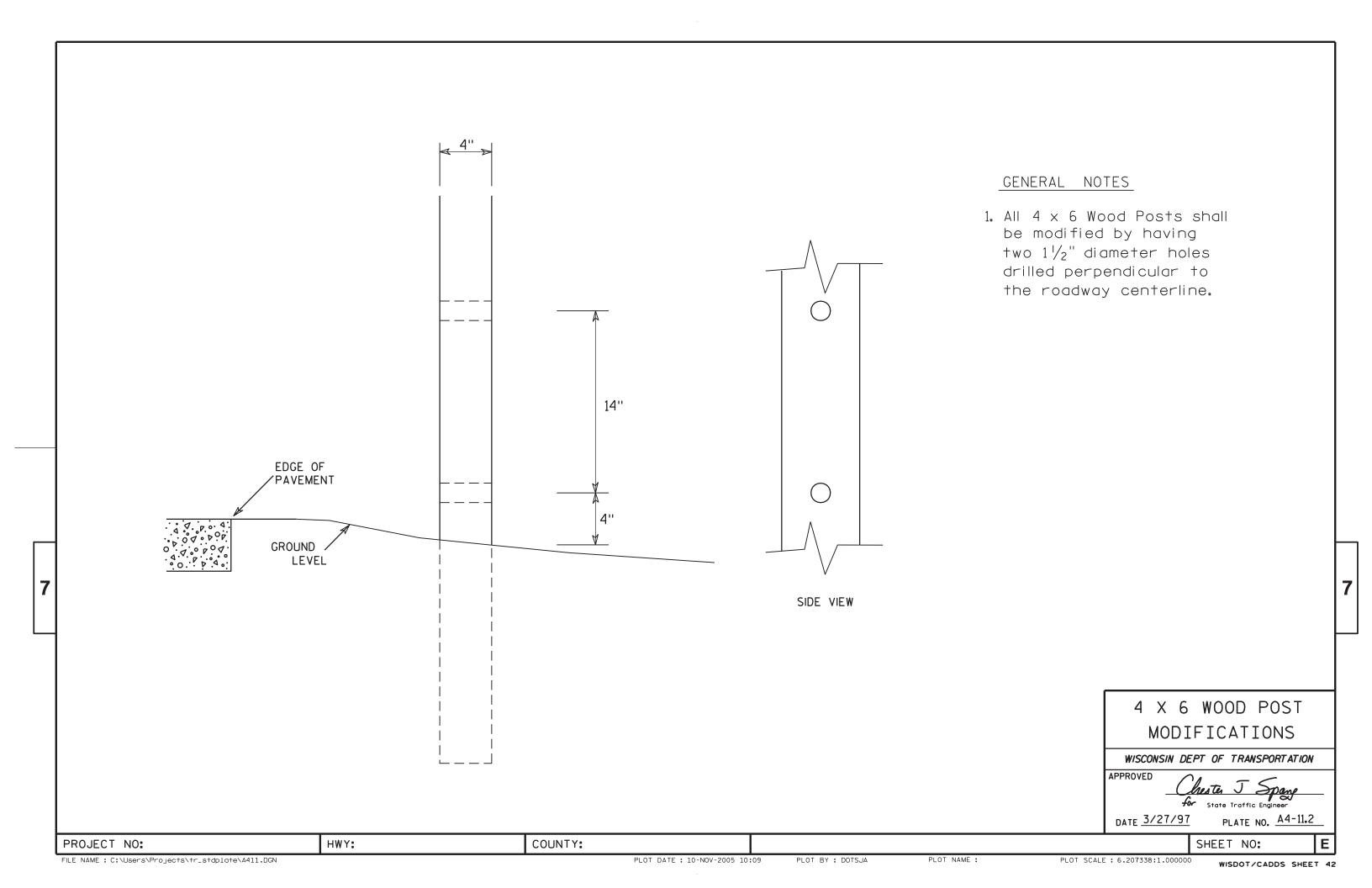
PROJECT NO: FILE NAME : C:\CAEfiles\Projects\tr_stdplate\A43.DGN COUNTY:

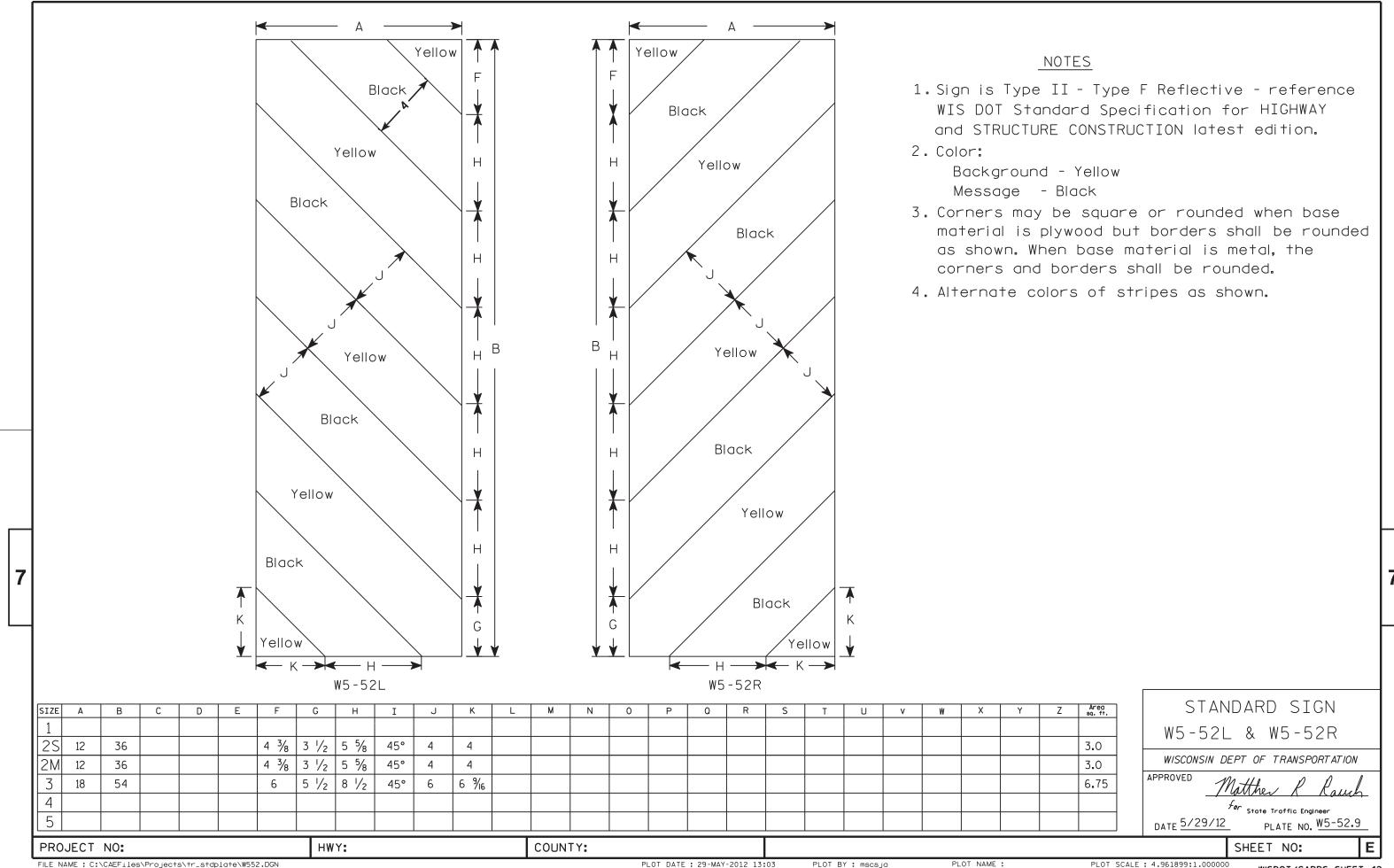
PLOT SCALE: 99.237937:1.000000

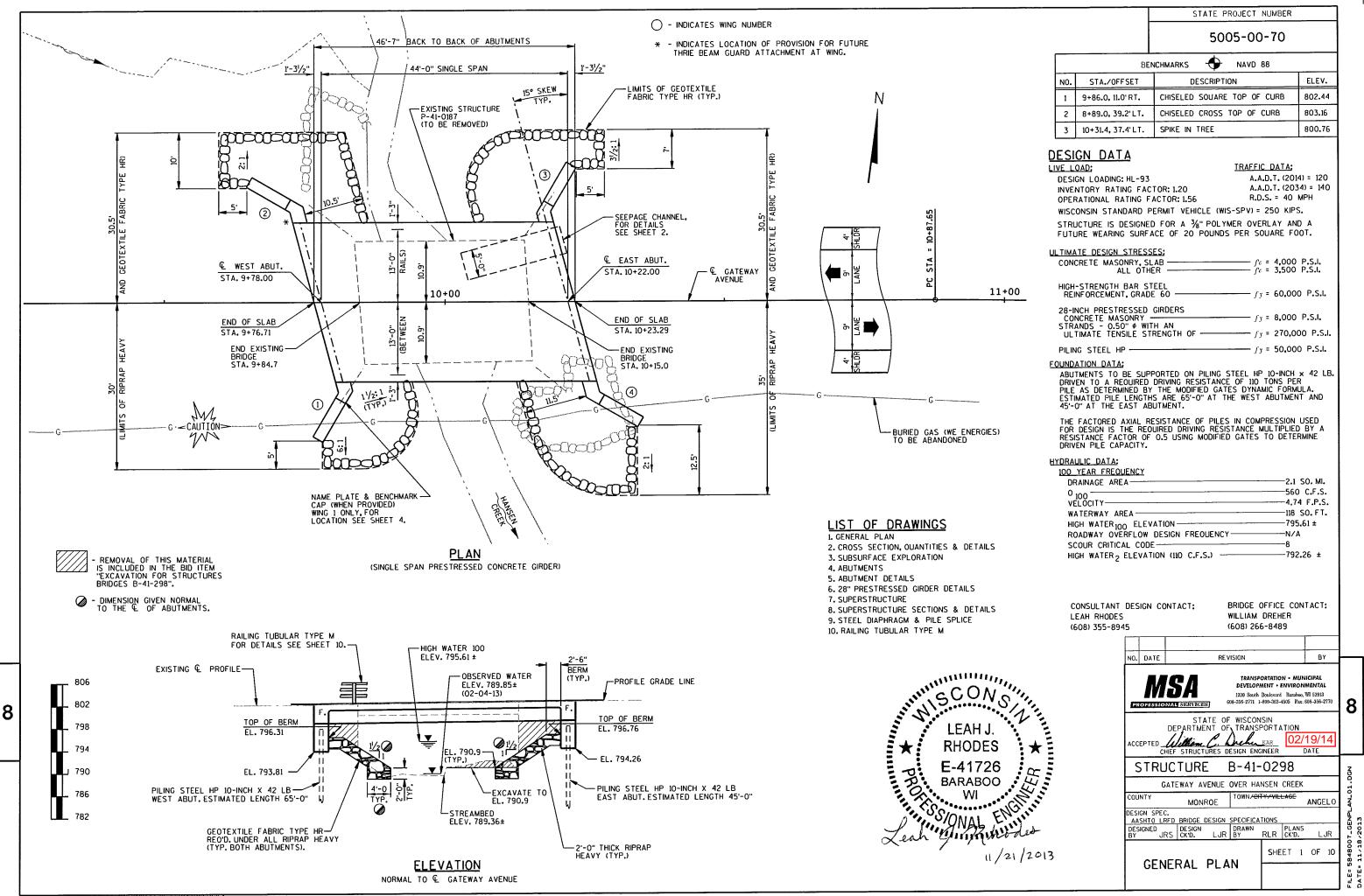
WISDOT/CADDS SHEET 42

PLOT DATE: 30-SEP-2013 13:25 PLOT BY : mscj9h







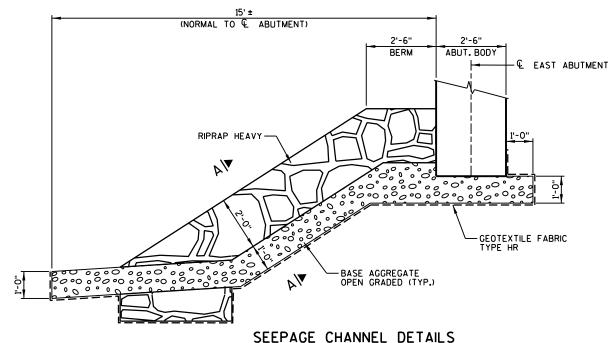


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5005-00-70

DETERMINE THE POSITION OF THE SEEPAGE CHANNEL IN THE FIELD. CENTER THE CHANNEL ON THE NATURAL SPRING THAT RUNS BELOW THE NORTH CORNER OF THE EAST ABUTMENT

SECTION A-A THRU SEEPAGE CHANNEL



-RIPRAP HEAVY

GEOTEXTILE FABRIC

BASE AGGREGATE

OPEN GRADED (TYP.)

28'-6" —€ GATEWAY AVENUE 13'-0" POINT REFERRED TO ON RAILING TUBULAR TYPE M FOR DETAILS SEE PROFILE GRADE LINE POLYMER OVERLAY, EXTEND BETWEEN EDGES OF SLAB SHEET 10 2.0% 2.0% ' 'V' GROOVE EXTEND TO THE
FILLET ADJACENT
TO THE ABUTMENTS 3'-0" 3 SPACES @ 7'-6" = 22'-6" 3'-0" 4 - 28" PRESTRESSED CONCRETE GIRDERS RIPRAP HEAVY

AT ABUTMENTS

IN SPAN

CROSS SECTION THRU BRIDGE

(LOOKING EAST)

TOTAL ESTIMATED QUANTITIES

ITEM NUMBER	BID ITEM	UNIT	WEST ABUT.	EAST 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 STRUCTURE BRIDGES (B-41-0298)	LS	-	-	-	1	
210.0100	BACKFILL STRUCTURE	CY	130	130	-	260	
310.0115	BASE AGGREGATE OPEN GRADED	CY	-	5	-	5	
502.0100	CONCRETE MASONRY BRIDGES	CY	29	29	-	58	
502.3200	PROTECTIVE SURFACE TREATMENT	SY	20	20	18	58	
503.0128	PRESTRESSED GIRDER TYPE I 28-INCH	LF	-	-	180	180	
505.0405	BAR STEEL REINFORCEMENT HS BRIDGES	LB	2060	2060	-	4120	
505.0605	BAR STEEL REINFORCEMENT HS COATED BRIDGES	LB	1505	1505	9560	12570	
506.2605	BEARING PADS ELASTOMERIC NON-LAMINATED	EACH	-	-	8	8	
506.4000.01	STEEL DIAPHRAGMS (B-41-0298)	EACH	-	-	3	3	
509.5100.5	POLYMER OVERLAY	SY	-	-	148	148	
513.4060.01	RAILING TUBULAR TYPE M (B-41-0298)	LS	-	-	-	1	
516.0500	RUBBERIZED MEMBRANE WATERPROOFING	SY	10	10	-	20	
550.1100	PILING STEEL HP 10-INCH X 42 LB	LF	455	315	-	770	
606.0300	RIPRAP HEAVY	CY	79	86	-	165	
612.0406	PIPE UNDERDRAIN WRAPPED 6-INCH	LF	90	90	-	180	
645.0120	GEOTEXTILE FABRIC TYPE HR	SY	150	160	-	310	
SPV.0035.01	SPECIAL FIBER REINFORCED CONCRETE MASONRY FOR BRIDGES, STRUCTURE B-41-0298	CY	-	-	49	49	
	NON-BID ITEMS						
	PREFORMED FILLER	SIZE				1/2" & 3/4"	

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 SIGNIFIES THE BAR SIZE.

THE SLOPE OF THE FILL IN FRONT OF THE ABUTMENTS SHALL BE COVERED WITH RIPRAP HEAVY AND GEOTEXTILE FABRIC 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.

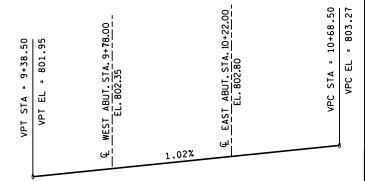
THE MINIMUM CONCRETE HAUNCH AT THE EDGE OF THE GIRDER FLANGES SHALL BE 11/4". THE HAUNCH CONCRETE QUANTITY IS BASED ON AN AVERAGE HAUNCH DEPTH OF 21/2" WHICH IS THE MAXIMUM HAUNCH QUANTITY FOR WHICH THE CONTRACTOR WILL BE PAID.

THIS STRUCTURE WILL REPLACE EXISTING BRIDGE, P-41-0187, A 30.6 FOOT LONG, SINGLE SPAN STEEL DECK GIRDER BRIDGE SET ON FULL RETAINING TIMBER ABUTMENTS.

AT THE ABUTMENTS ALL EXCAVATED VOLUME NOT OCCUPIED BY THE NEW STRUCTURE SHALL BE BACKFILLED WITH BACKFILL STRUCTURE. THE BACKFILL STRUCTURE ESTIMATED QUANTITIES ASSUMED A 11/2: 1 EXCAVATION SLOPE AT THE ABUTMENTS.

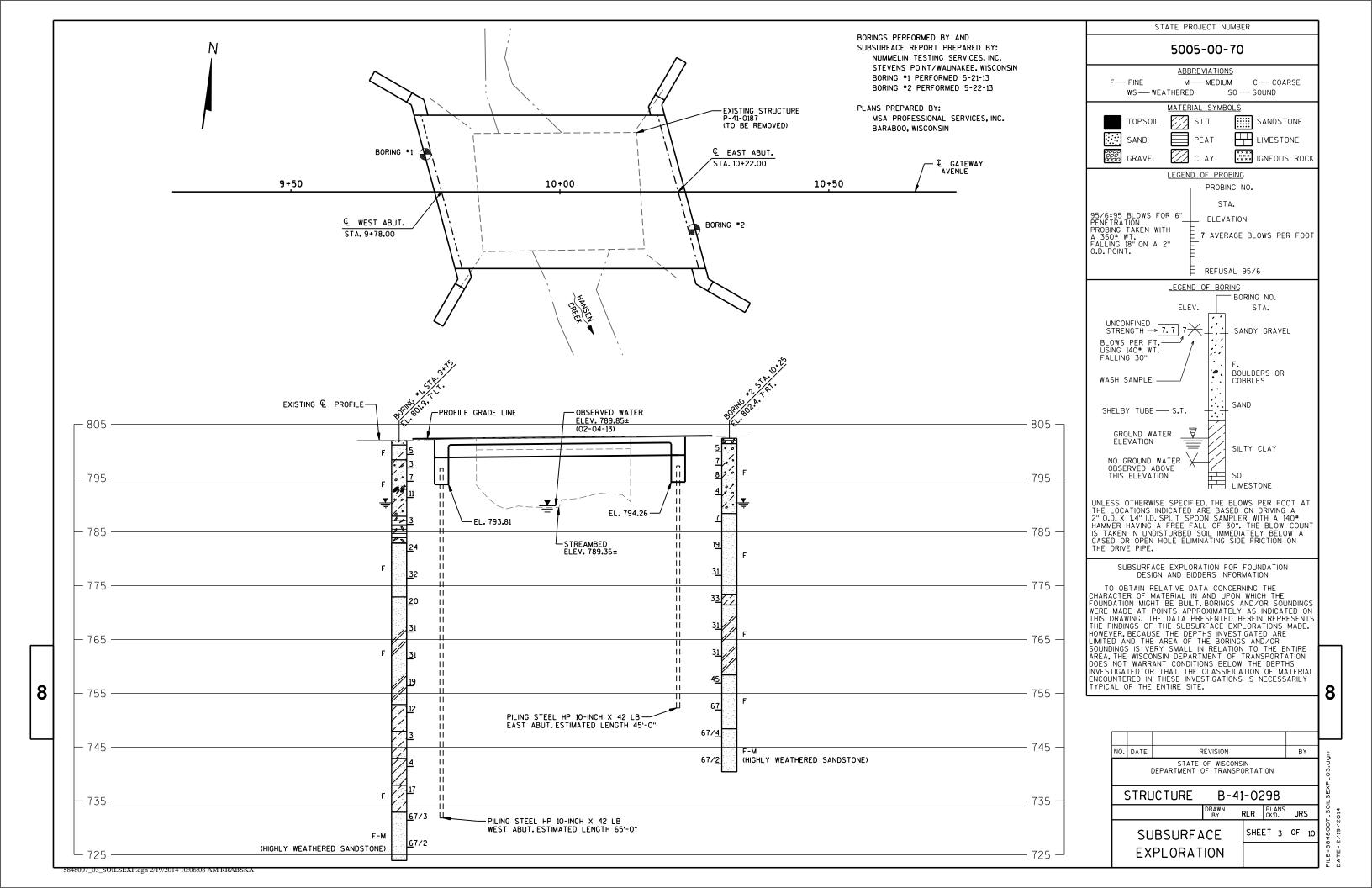
ELEVATIONS SHOWN ON THIS PLAN ARE REFERENCED TO USGS NAVD 88 DATUM, 1996 ADJUSTED AND WERE ESTABLISHED AT THE SITE USING GPS TECHNOLOGY.

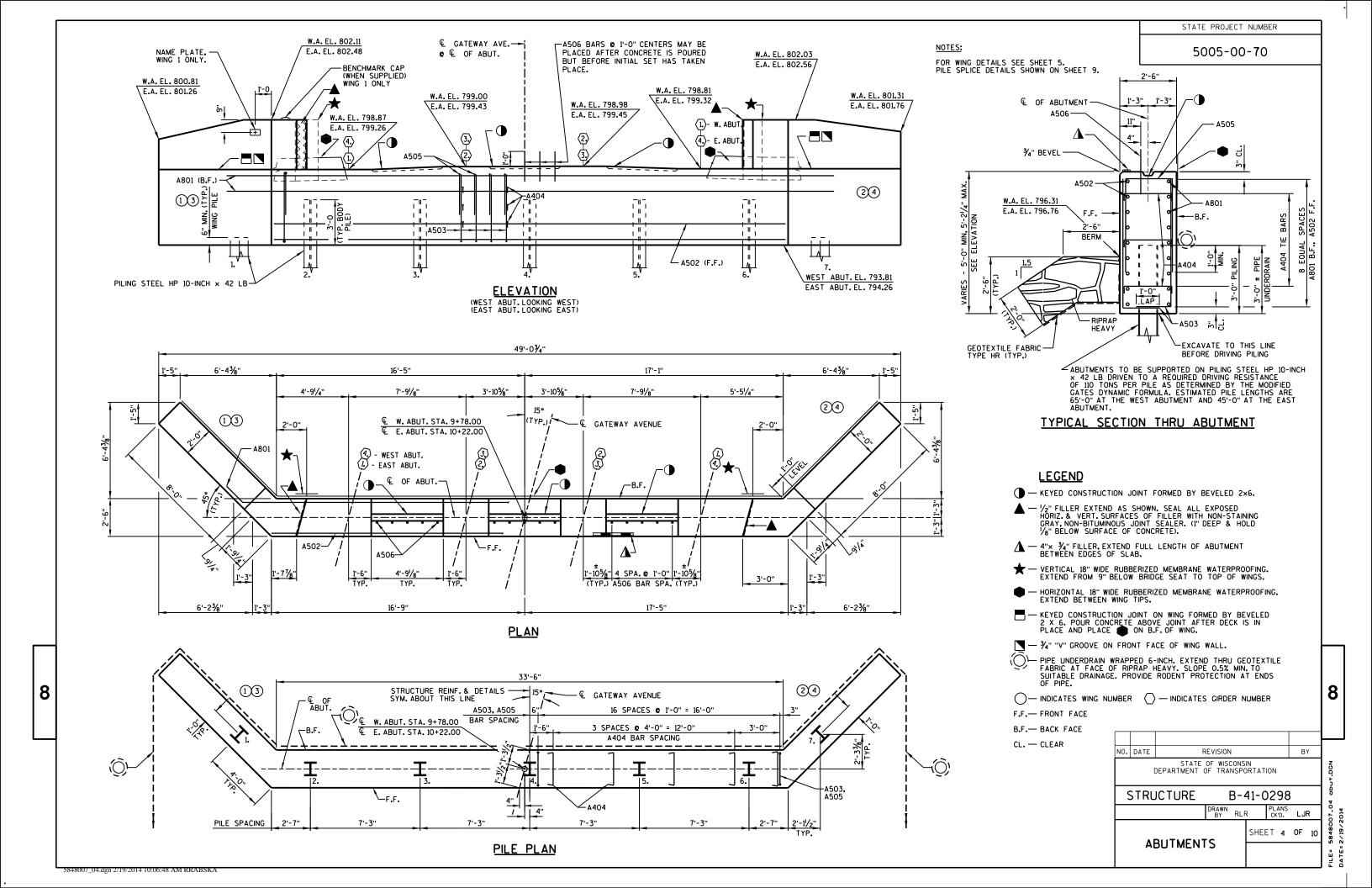
APPLY PROTECTIVE SURFACE TREATMENT TO THE SIDES OF THE DECK, TO THE OUTSIDE 1'-O" OF THE UNDERSIDE OF DECK, TO THE TOPS OF WINGS, AND TO THE EXPOSED FRONT FACES OF WINGS.

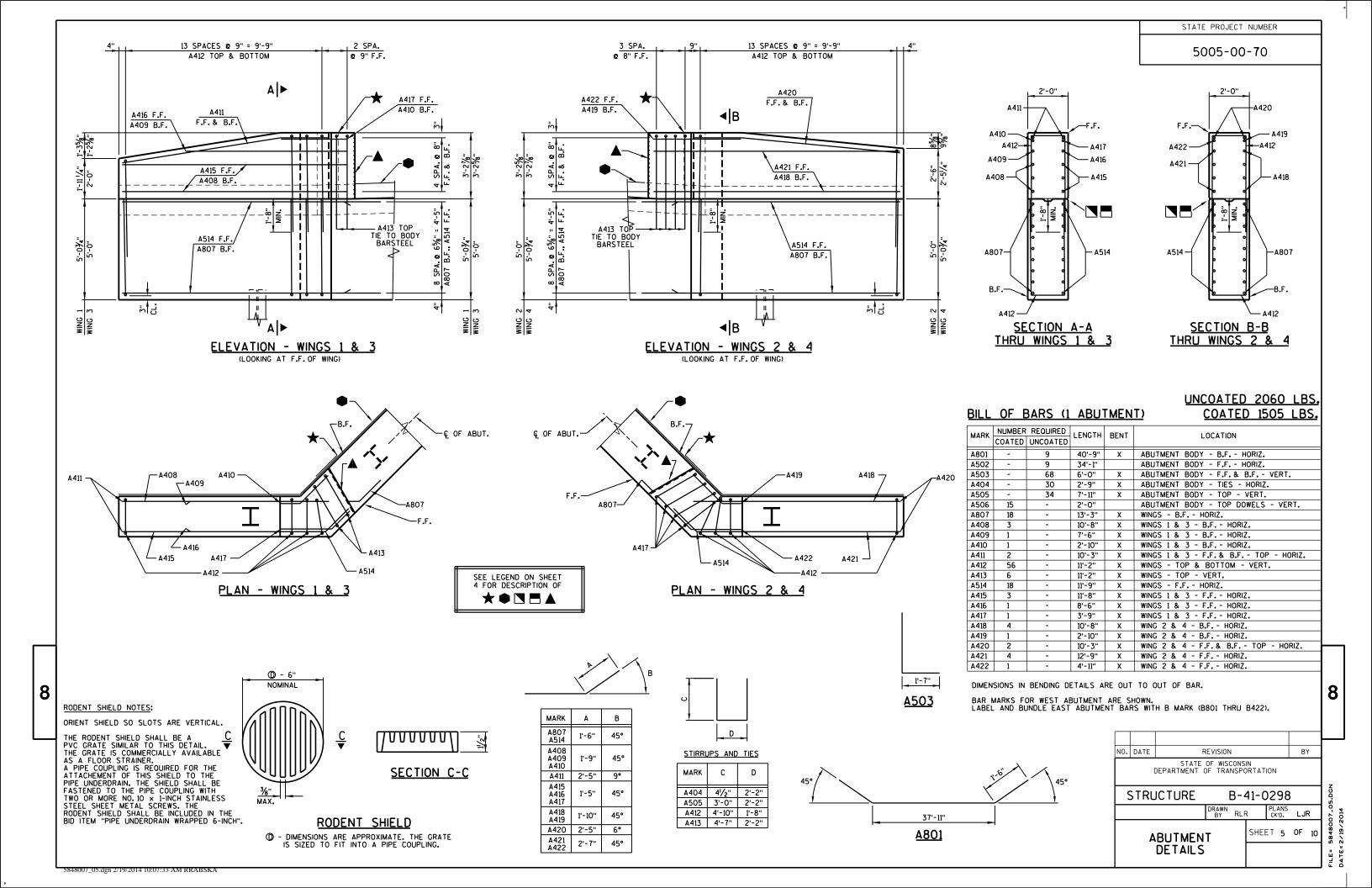


PROFILE GRADE LINE - GATEWAY AVENUE

$\overline{}$												
NO.	DATE		B,									
NO.	DATE	Г	REVISION			Ь						
	STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION											
(STRUCTURE B-41-0298											
			₹	PLANS CK'D.	LJI	R						
	Q	SS SECT	SHE	ET 2	OF	10						
& DETAILS												









5005-00-70

NOTES

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

THE GIRDERS SHALL BE PROVIDED WITH A SUITABLE LIFTING DEVICE FOR HANDLING AND ERECTING THE GIRDERS.

PRESTRESSING STRANDS SHALL BE 0.6" \$\phi - 7 WIRE LOW-RELAXATION STRANDS WITH AN ULTIMATE STRENGTH OF 270,000 psi.

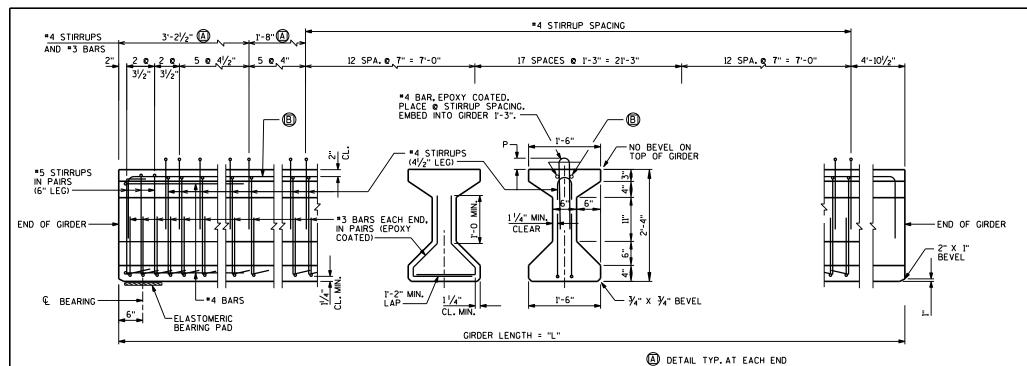
STRANDS SHALL BE FLUSH WITH THE END OF GIRDER, ENDS OF STRANDS SHALL BE COATED WITH NON-BITUMINOUS JOINT

FOR DIAPHRAGM INSERT & CONNECTION DETAILS SEE "STEEL DIAPHRAGM" SHEET.

ALL GIRDERS SHALL BE CAST FULL LENGTH AS SHOWN.

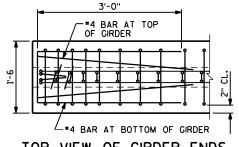
SPACING SHOWN FOR #4 STIRRUPS IS FOR GRADE 60

AN ALTERNATE EQUIVALENT OF WELDED WIRE FABRIC (WWF) ASTM A497 MAY BE SUBSTITUTED FOR THE STIRRUP REINFORCEMENT SHOWN, UPON APPROVAL OF THE STRUCTURES DEVELOPMENT SECTION.



SIDE VIEW & TYP. SECTION

(B) 2-#7 BARS BEND DOWN 16 BAR DIA. AT ENDS



TOP VIEW OF GIRDER ENDS

7 SPA. @ 2"

TYP. STRAND PATTERN

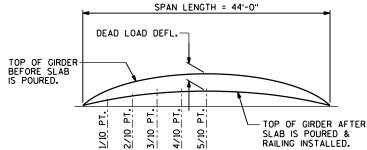
TOTAL NO. OF STRANDS

10 - 439

TOTAL INITIAL -

FORCE IN KIPS.

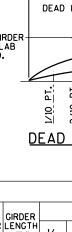
THE THEORETICAL INITIAL CAMBER VALUE AT THE TIME OF STRAND RELEASE AT MIDSPAN IS 11/8"
THIS VALUE IS NOT TO BE USED IN DETERMINING 'T', USE ACTUAL GIRDER SHOTS. THIS VALUE IS FOR INFORMATIONAL PURPOSES ONLY.



DEAD LOAD DEFLECTION DIAGRAM

* MINIMUM CYLINDER STRENGTH OF CONCRETE & TIME OF TRANSFER OF PRESTRESS FORCE

	A MINIMUM CITINDER STRENGTH OF CONCRETE & TIME OF TRANSFER OF PRESTRESS FORCE.																							
1	GIRDER DATA																							
0,000					DE	AD LO	DAD DE	EFL. (I	N.)			CONC. STRGTH.	"P"	"P"	"P"	DIA OF		DRAPE	D PA	TTERN			UNDRAPED F	ATTERN
SPAN		GIRDER LENGTH										f'c	1ST 1/3 OF	MID 1/3 OF	END 1/3 OF	STRAND	TOTAL NO. OF	f'ci		(N.)		TOTAL	f'ci
	OIIIDEII	"L""	1/10	%0	3∕10	½ 10	5∕10	% ₁₀	7 ∕10	8∕10	%₀	(p.s.i.)	GIRDER	GIRDER	GIRDER	/INL N	NO.OF STRANDS	(P.S.I.)	"A"	"B" MIN.	"B" MAX.	"C"	NO. OF STRANDS	(P.S.I.)
1	1-4	45'-0"	1/8	1/4	3∕8	3%	3/8	3∕8	3%	1/4	1/8	8000	6"	6"	6"	0.6	-		-	-	-	-	10	6800



NO. 4 BAR, EPOXY COATED. PLACE AT STIRRUP SPACING REQUIRED FOR NON WWF STIRRUPS. EMBED INTO GIRDER 1'-3".7 AREA OF HORIZ. WIRE SHALL-BE > 40% OF VERT. WIRE AREA (ASTM A497) 1" MIN. CLEARANCE — D18 MIN. VERTICAL WIRE (DEFORMED) TO VERTICAL WIRE HORIZ. WIRES SHALL BE LOCATED IN TOP AND BOTTOM FLANGES AND NOT IN THE WEB.

SECTION THRU GIRDER

SHOWING WELDED WIRE FABRIC (WWF) STIRRUPS ASTM A497 (Fy = 70 Ksi)

NO.	DATE	F	REVISION		BY	
	ı					
(STRL		6.DGN			
			DRAWN BY CAR	PLANS CK'D.	LJR	7_0

28" PRESTRESSED GIRDER DETAILS

SHEET 6 OF

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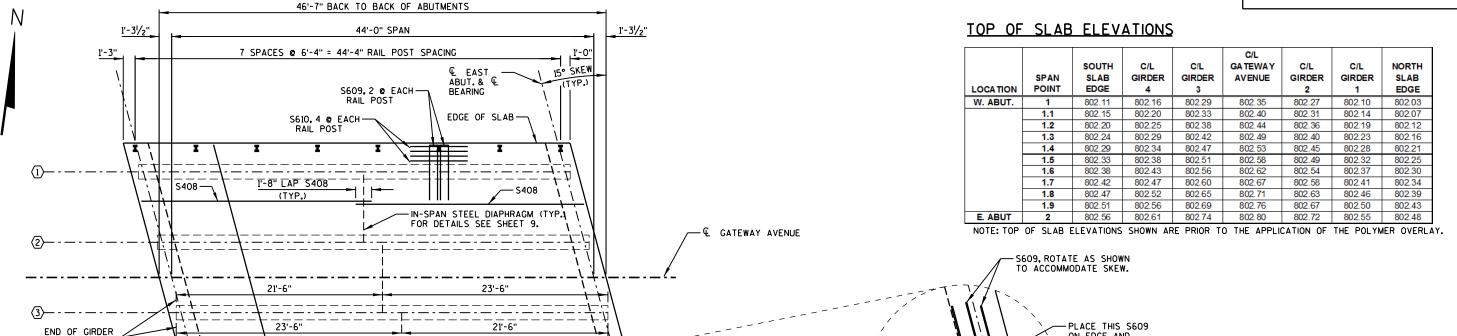
2 SPACES

@ 2"

ALL PATTERNS ARE SYM. ABOUT



5005-00-70



B.F. OF ABUT.

1'-3"

<u>PLAN</u>

7 SPACES @ 6'-4" = 44'-4" RAIL POST SPACING

EDGE OF SLAB

· S507

EXT. GIRDERS

(1) & (4)

SLAB HAUNCH DETAIL

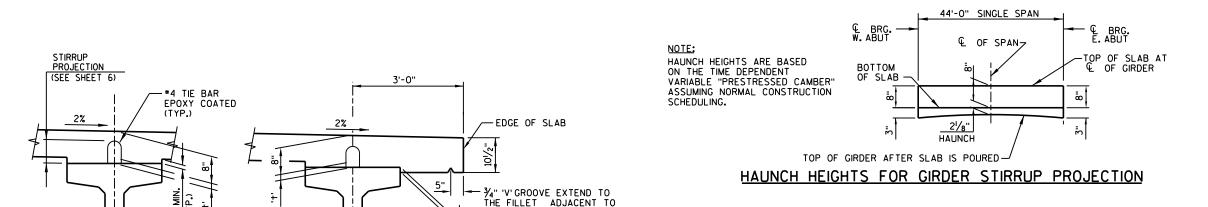
RAIL POST ANCHOR - CORNER DETAIL

-EDGE OF SLAB

S611, 4 REQ'D. AT

EACH BRIDGE CORNER ON EDGE AND HOLD 3" CLEAR OF SLAB EDGE.

B.F. OF ABUT.



TO DETERMINE '+', ELEV. OF TOP OF GIRDERS AT & OF

SHALL BE TAKEN. THEN FOLLOW THIS PROCESS:

TOP OF SLAB ELEV. AT FINAL GRADE

+ DEADLOAD DEFLECTION (SEE SHEET 6)

- TOP OF GIRDER ELEVATION

SUBSTRUCTURE UNITS & AT 1/10 POINTS OF EACH SPAN

THE ABUTMENTS (TYP.)

- SLAB THICKNESS

= HAUNCH HEIGHT 't'

IF 1 1/4" MINIMUM HAUNCH HEIGHT '+' CANNOT BE MAINTAINED, THE GRADE LINE MAY BE REVISED BY THE ENGINEER AT THE OPTION OF THE CONTRACTOR. THE PLAN SLAB THICKNESS SHALL BE HELD. NOTIFY THE STRUCTURES SECTION IF THE GRADE LINE IS RAISED FROM THE PLAN AND PROFILE BY MORE THAN 1/2" OR IF 3" MINIMUM DECK EMBEDMENT OF TIE BAR CANNOT BE OBTAINED.

GENERAL NOTES

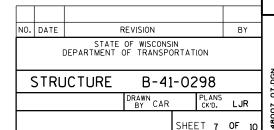
- INDICATES GIRDER NUMBER

B.F. - BACK FACE

SEE CROSS SECTION THRU BRIDGE SHEET 8 FOR TYPICAL LONGITUDINAL BAR SPACING

SEE LONGITUDINAL SECTION SHEET 8 FOR TRANSVERSE BAR SPACING

SUPERSTRUCTURE



FILE= 5848007_07.DGN DATE=2/19/2014

8

848007 07.den 2/19/2014 10:16:06 AM RRABSKA

IN-SPAN STEEL
DIAPHRAGM LOCATIONS

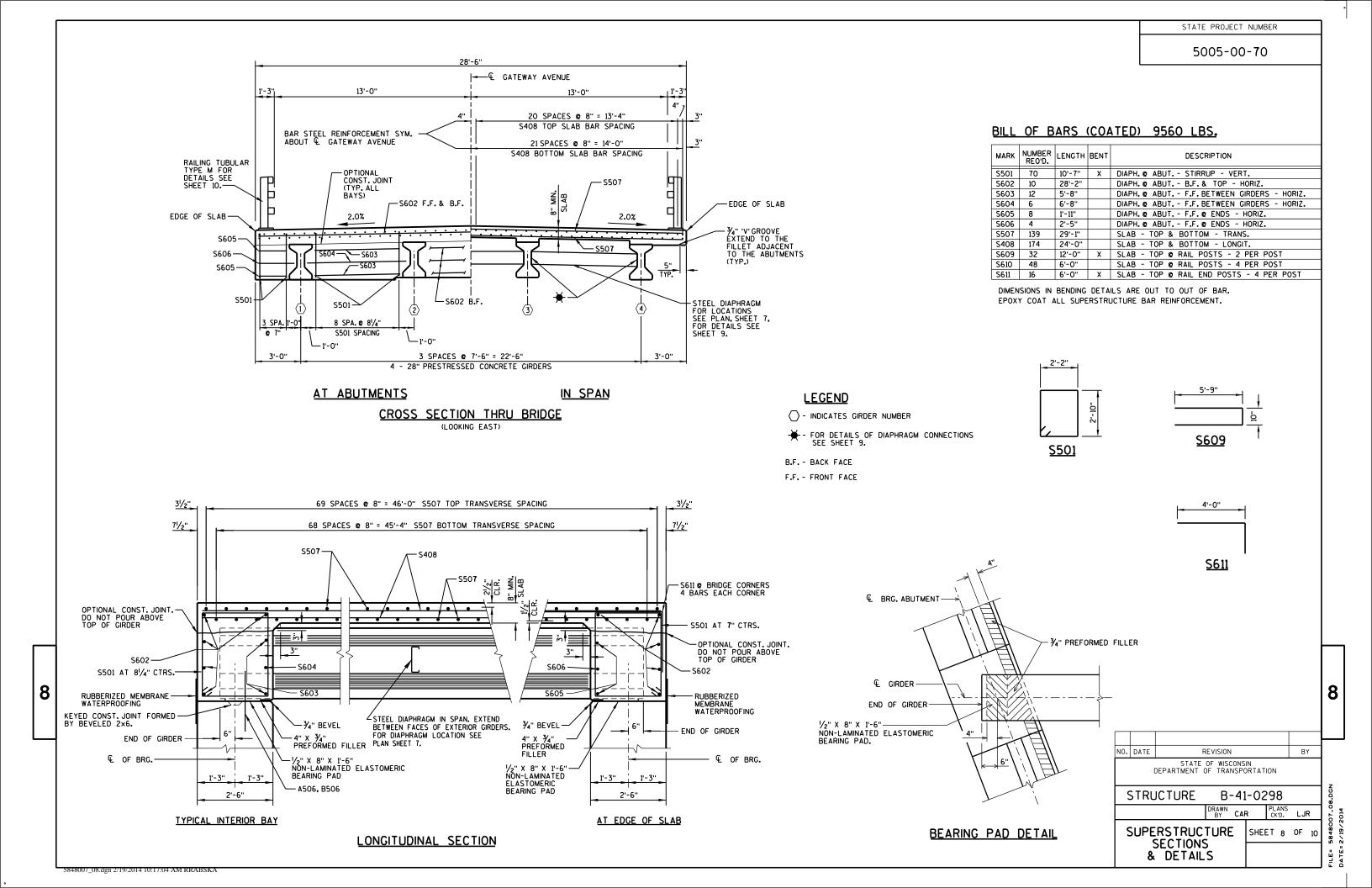
B.F. OF ABUT.

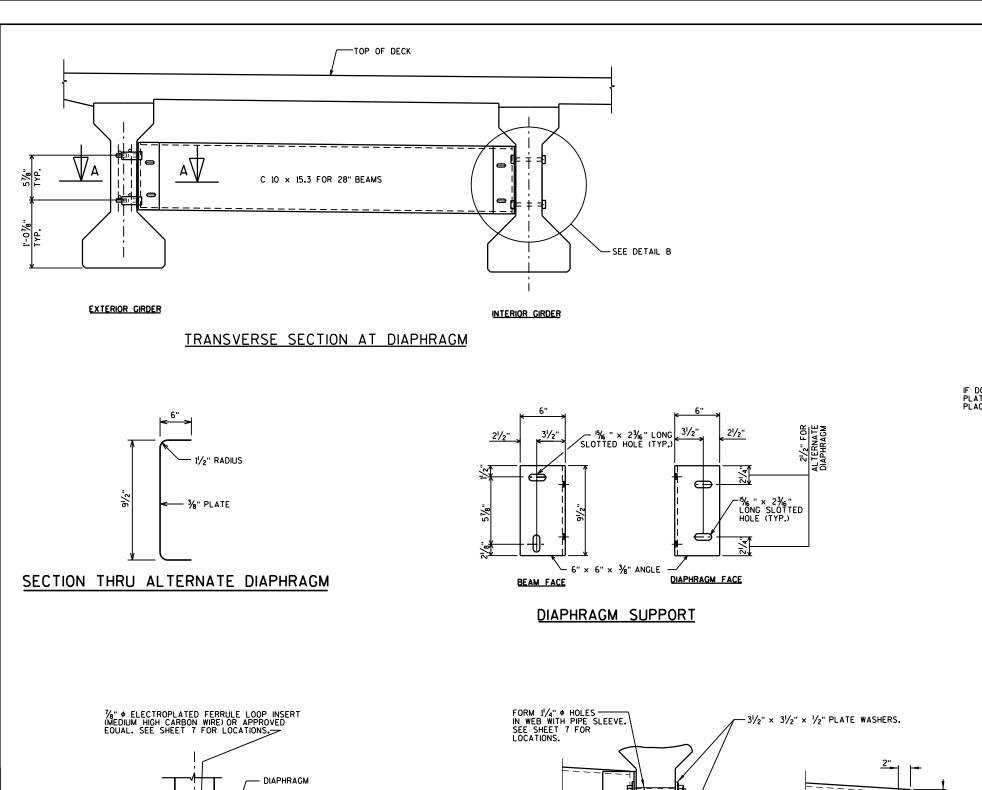
€ WEST ABUT.

1'-0"

2 & 3

& & BEARING





31/2" x 31/2" x 1/6" PLATE WASHERS.

CENTER OF DIAPHRAGM-

- 1/8" Ø HIGH STRENGTH BOLTS WITH HEX.NUT & TWO WASHERS

DETAIL B

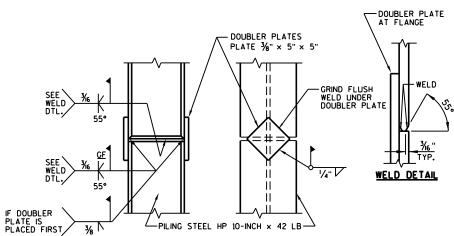
-7g" ø HICH STRENGTH BOLTS WITH HEX. NUT. TWO WASHERS AND A 3½" SQUARE × 36" PLATE WASHER ON SLOTTED SIDE.

€ BOLT ANCHORAGE

%" ♥ X 2" LG. ELECTROPLATED

CAP SCREW WITH LOCK-WASHER. TORQUE TO 80 FT.LBS. 31/2" X 31/2" X 1/6"

→ PLATE WASHER



NOTES

ALL DIAPHRAGM MATERIAL NOT EMBEDDED IN THE CONCRETE GIRDER SHALL BE PAID FOR AT THE UNIT PRICE BID FOR "STEEL DIAPHRAGMS B-41-0298", EACH.

PILE SPLICE DETAILS

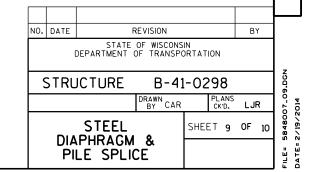
EACH DIAPHRAGM BETWEEN GIRDERS SHALL CONSTITUTE ONE UNIT.

ALL DIAPHRAGM STRUCTURAL STEEL SHALL BE ASTM A709 GRADE 36.

ALL BOLTS, NUTS AND WASHERS SHALL BE ASTM A325 TYPE 1.

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

SEE SHEET 7 FOR LOCATION OF DIAPHRAGMS.



8

STATE PROJECT NUMBER

5005-00-70

848007 09.den 2/19/2014 10:17:49 AM RRABSKA

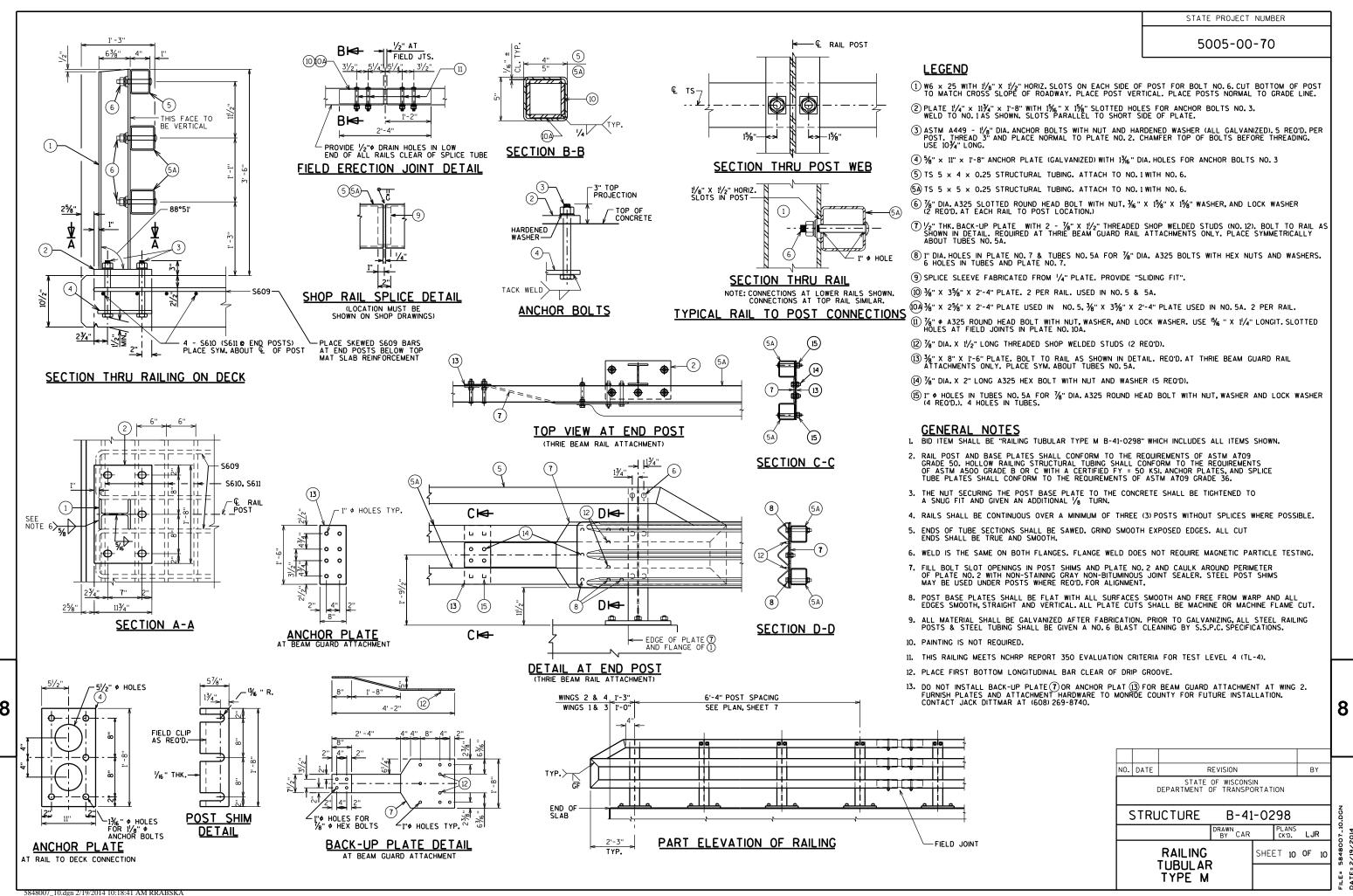
6" × 6" × 3/8" ANGLE-

SECT. A-A

(FOR EXTERIOR ATTACHMENT)

GIRDER STIRRUPS

*4 TIE BARS × 3'-0 LONG — FASTEN TO GIRDER STIRRUPS.



PROJECT I.D. 5005-00-70 EARTHWORK SUMMARY

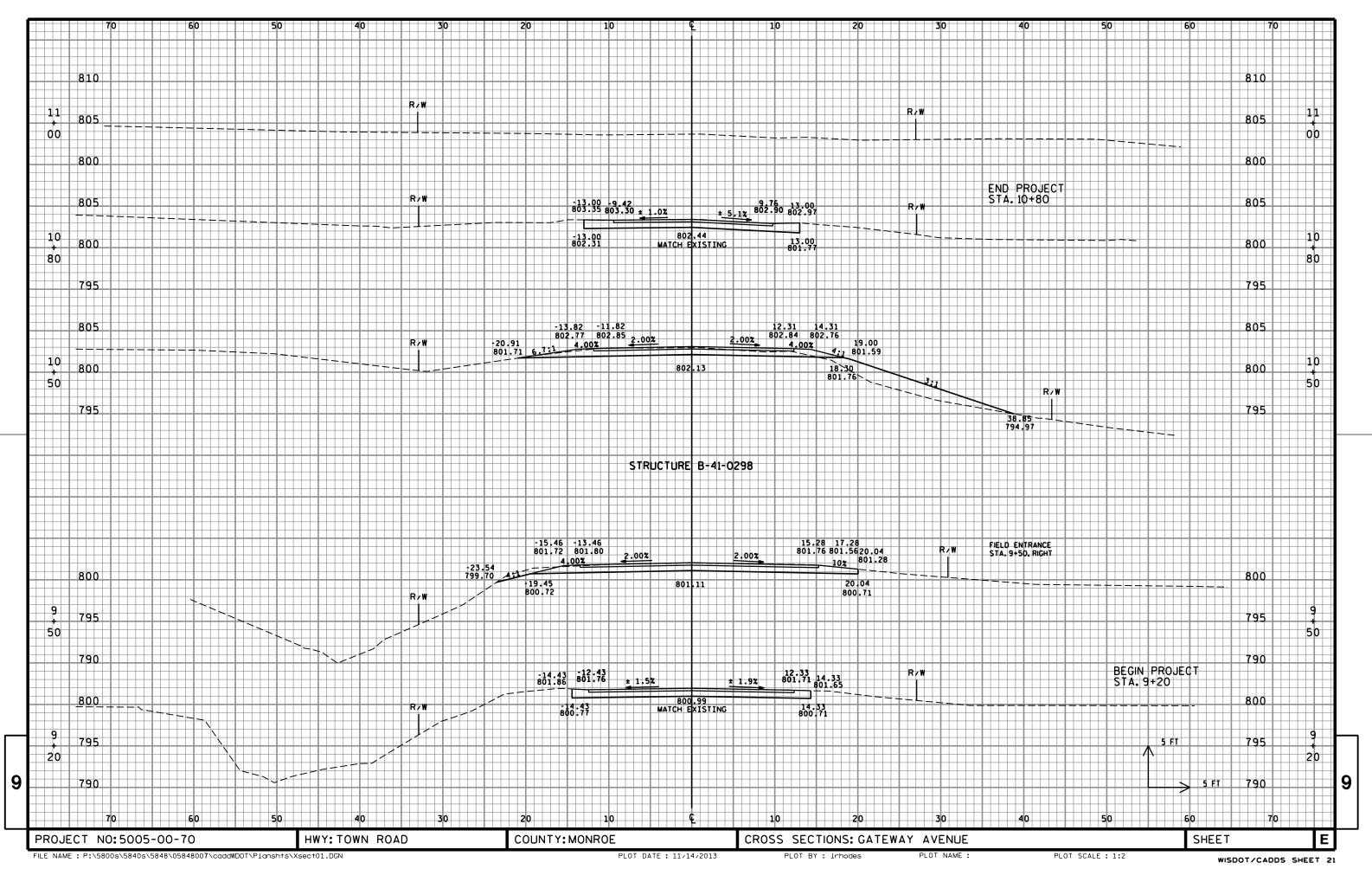
	EXCAVATION	EXCAVATION	FII. (4)	EXPANDED	NA OTE
	COMMON	ROCK	FILL (1)	FILL (2)	WASTE
STA	CY	CY	CY	CY	CY
9+20.00					
	36	0	0	0	36
9+50.00					
	37	0	0	0	37
9+76.71					
		STRUCTURE	B-41-0298		
10+23.29					
	24	0	27	35	-11
10+50.00					
	28	0	15	20	8
10+80.00					
SUBTOTALS					
WEST APPROACH	73	0	0	0	73
EAST APPROACH	52	0	42	55	-3
TOTALS	125	0	42	55	70

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

(2) - FILL EXPANSION 30%

COUNTY: MONROE HWY: TOWN ROAD EARTHWORK SHEET PROJECT NO: 5005-00-70 FILE NAME ; P:\5800s\5840s\5848\05848007\Estimate\5848007_MiscQty & Earthwork Borders.dgn

PLOT DATE : 11/13/2013





Wisconsin Department of Transportation

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