Section No. 3

Section No. 4

Section No. 5

Section No. 6 Section No. 7

Section No. 8

Section No. 9

Section No. 9

TOTAL SHEETS =

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

STATE PROJECT PROJECT CONTRACT 5346-00-00

FEDERAL PROJECT

PLAN OF PROPOSED IMPROVEMENT

TOWN OF BARRE, DROGSETH ROAD

(BOSTWICK CREEK BRIDGE B-32-0231)

TOWN ROAD LA CROSSE COUNTY

> STATE PROJECT NUMBER |5346-00-00

West

Salem

DESIGN DESIGNATION <100

Miscellaneous Quantities

Standard Detail Drawings

Computer Earthwork Data

Plan and Profile (Includes Erosion Control Plan)

Right of Way Plat

Sian Plates

Cross Sections

Structure Plans

A.A.D.T. 2018 A.A.D.T. 2038 <100 D.H.V. 2038 N/A 50/50 10%

DESIGN SPEED 50 mph ESALS

CONVENTIONAL SYMBOLS

CORPORATE LIMITS

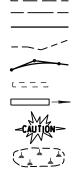
PROPERTY LINE LOT LINE LIMITED HIGHWAY EASEMENT EXISTING RIGHT OF WAY PROPOSED OR NEW R/W LINE

SLOPE INTERCEPT REFERENCE LINE EXISTING CULVERT PROPOSED CULVERT (Box or Pipe)

COMBUSTIBLE FLUIDS

MARSH AREA

WOODED OR SHRUB AREA EDGE OF STREAM RAILROAD FENCE



1//////

GRADE LINE ORIGINAL GROUND MARSH OR ROCK PROFILE (To be noted as such) SPECIAL DITCH GRADE ELEVATION CULVERT (Profile View) UTILITIES ELECTRIC

PROFILE

FIBER OPTIC GAS SANITARY SEWER STORM SEWER TELEPHONE WATER UTILITY PEDESTAL POWER POLE

TELEPHONE POLE

B-32-0231 _ ROCK _ __LABEL____

STRUCTURE

LAYOUT

BĀRRE

Coordinates on this plan are referenced to the Wisconsin County Coordinate System (WCCS), La Crosse County.

T-15-N

T-16-N

END PROJECT

STA. 21+50

Y = 137,919.10

X = 500.109.84

BANGOR

Middle Ridg

DATE TOWN CHAIRPERSON ACCEPTED FOR LA CROSSE COUNTY HIGHWAY COMMISSIONER ORIGINAL PLANS PREPARED BY: 1230 South Boulevard Baraboo, WI 53913 ONAL SERVICES @ MSA PROFESSIONAL SERVICES

ACCEPTED FOR TOWN OF BARRE

STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION

PREPARED BY MSA Professional Services, Inc. Surveyor MSA Professional Services, Inc. Designer KL Engineering, Inc. Consultant

APPROVED FOR THE DEPARTMENT

Date

(Management Consultant Signature)

FILE NAME: P:\9200s\9260s\9262\09262006\cadd\DOT\Planshts\9262006TS.dgn

PLOT DATE: 7/17/2017

PLOT BY : bhalley

TOTAL NET LENGTH OF CENTERLINE = 0.065 MI.

PLOT SCALE: 1:20000

WISDOT/CADDS SHEET 10

Sianature

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BEGIN PROJECT

STA. 18+05

Y = 137.575.21

X = 500.082.21

Bangor:

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
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	Ť	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	0E	OUTLET ELEVATION	T	TON
DIST	DISTRICT	OL	OUT LOT	TC	TOP OF CURB
DWY	DRIVEWAY	OD	OUTSIDE DIAMETER	TN	TOWN
E	EAST	ОН	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	ΡĪ	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	REOD	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 J. RHODES, P.E. 1230 SOUTH BOULEVARD BARABOO, WI 53913 PHONE: 608-355-8945 Irhodes@msa-ps.com

DNR LIAISON

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

UTILITIES

BURIED TELEPHONE: CENTURYLINK ATTN: BRIAN STELPLUGH 333 N FRONT STREET
LA CROSSE, WI 54601
PHONE (OFFICE): 608-796-5142 PHONE (MOBILE): 608-780-1238 brian.stelplugh@centurylink.com

OVERHEAD ELECTRIC: XCEL ENERGY ATTN: JAYMIE L. HOLTE 3215 COMMERCE STREET LA CROSSE, WI 54603 PHONE (OFFICE): 608-789-3698 PHONE (MOBILE): 608-780-9881 jaymie.l.holte@xcelenergy.com

* - NOT A MEMBER OF DIGGERS HOTLINE.

www.DiggersHotline.com

RUNOFF COEFFICIENT TABLE

	HYDROLOGIC SOIL GROUP											
		A			В С			D				
	SLOPE RANGE (PERCENT)			SLOPE	SLOPE RANGE (PERCENT) SLOPE RANGE (PERCENT)		SLOPE RANGE (PERCENT)		(PERCENT)			
LAND USE:	0-2	2-6	6 & OVER	0-2	2-6	6 & OVER	0-2	2-6	6 & OVER	0-2	2-6	6 & OVER
ROW CROPS	.08	.16	.22 .38	.12	.20 .34	.27 .44	.15	.24 .37	.33 .50	.19	.28 .41	.38 .56
MEDIAN STRIP- TURF	.19	.20	.24	.19 .25	.22	.26 .33	.20 .26	.23	.30	.20 .27	.25 .32	.30 .40
SIDE SLOPE- TURF			.25 .32			.27 .34			.28 .36			.30 .38
PAVEMENT:												l
ASPHALT						.7095						
CONCRETE					.8095							
BRICK						.7080						
DRIVES, WALKS						.7585						
ROOFS						.7595						
GRAVEL ROADS,	SHOULD	ERS				.4060						

TOTAL PROJECT AREA = 0.89 ACRES TOTAL AREA EXPECTED TO BE DISTURBED BY CONSTRUCTION ACTIVITIES = 0.56 ACRES

HWY: TOWN ROAD

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.

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

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

ELEVATIONS SHOWN ON THIS PLAN ARE REFERENCED TO USGS NAVD 88 (96 ADJUSTED) SYSTEM, UTILIZING BENCHMARK REFERENCES AT THE PROJECT SITE SET BY THE CONSULTANT USING GPS METHODS.

THE 4" ASPHALTIC SURFACE SHALL CONSIST OF A 1 $\frac{1}{4}$ " UPPER LAYER WITH 12.5 MM NOMINAL SIZE AGGREGATE AND A $2^{1}\!\!/_4$ " LOWER LAYER WITH A 19.0 MM 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 ON THE CREEK BANKS. AREAS OUTSIDE THE SLOPE INTERCEPTS SHALL NOT BE DISTURBED IN THIS AREA.

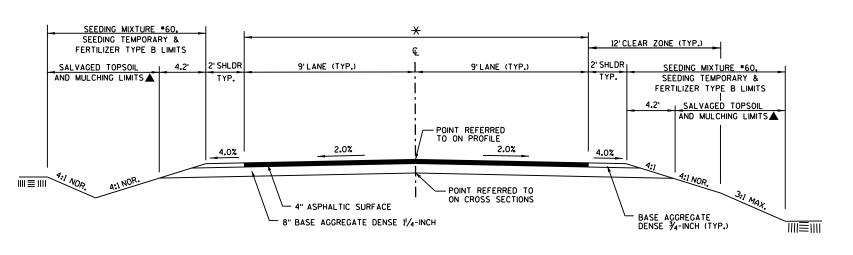
GENERAL NOTES, ABBREVIATIONS & UTILITIES

SHEET

COUNTY:LA CROSSE

PROJECT NO:5346-00-00

TYPICAL EXISTING SECTION



TYPICAL FINISHED SECTION

** THE ASPHALTIC SURFACE WIDTH SHALL TAPER FROM 24.0 AT THE ENDS OF THE BRIDGE TO 18.0 AT STATION 19+25 AND STATION 20+75.

THE ASPHALTIC SURFACE WIDTH SHALL TAPER FROM 18.0 AT STATION 18+50 AND STATION 21+00 TO MATCH EXISTING CONDITIONS AT THE ENDS OF THE PROJECT.

HWY: TOWN ROAD

▲ SEE PLAN AND PROFILE SHEETS FOR EROSION MAT URBAN CLASS ITYPE B LOCATIONS. DO NOT PLACE MULCH AT THOSE LOCATIONS.

TYPICAL SECTIONS & DETAILS

PLOT BY : bhalley

16'

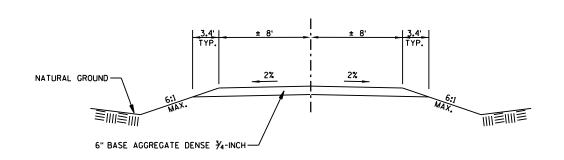
(AS SHOWN ON PLANS)

EDGE OF GRAVEL SHOULDER

EDGE OF PAVEMENT

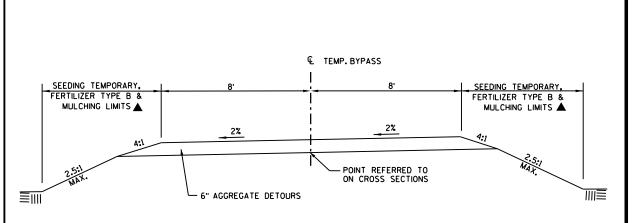
© ROADWAY

FIELD ENTRANCE PLAN



FIELD ENTRANCE TYPICAL SECTION

FIELD ENTRANCE DETAIL STA. 21+20, LT.



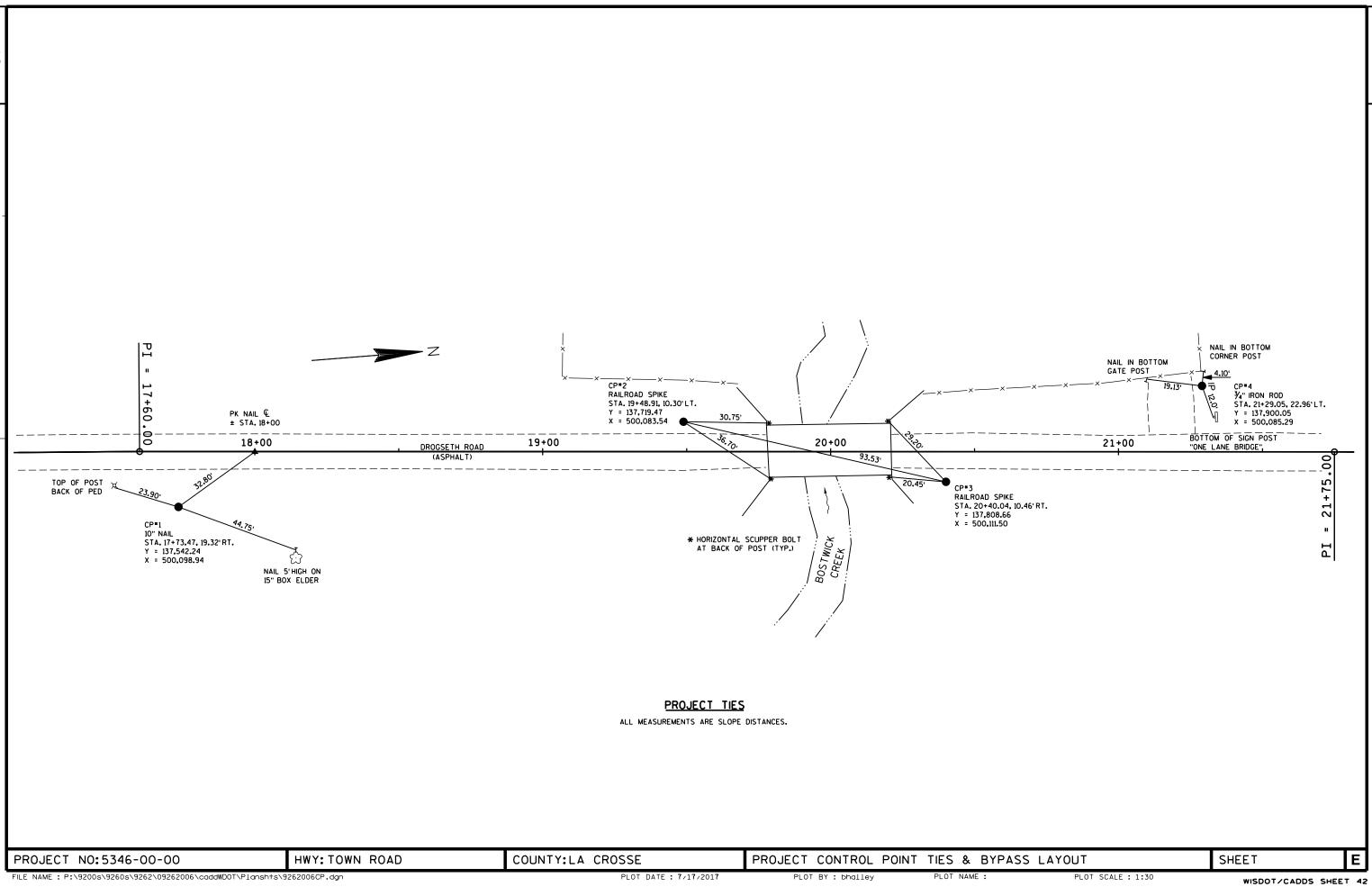
TYPICAL SECTION
TEMPORARY BYPASS

COUNTY: LA CROSSE

PLOT NAME :

SHEET

PROJECT NO:5346-00-00



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

201.0105 CLEARING 201.0205 GRUBBING

				CLEARING	GRUBBING
STATION	-	STATION	LOCATION	STA	STA
9+00	-	11+00	RT & LT	2	2
			TOTALS:	2	2

205.0100 EXCAVATION COMMON

208.0100 BORROW

STAGE 1: PLACING TEMPORARY BYPASS AND APPROACHES

	EXC. COMMON	FILL	EXPANDED FILL	WASTE	BORROW
LOCATION	CY	CY (1)	CY (2)	CY (1)	CY
STA 7+50.03 - STA 9+85	3	294	382	-379	379
STA 10+15 - STA 12+09.96	0	86	112	-112	112
TOTALS STAGE 1:	3	380	494	-491	491

STAGE 2: DROGSETH ROAD BRIDGE APPROACHES

		EXC. COMMON	FILL	EXPANDED FILL	WASTE	
	LOCATION	CY (3)	CY (1)	CY (2)	CY (1)	
	STA 18+05 - STA. 19+75.75	332	48	63	269	
	STA 20+24.25 - STA 21+50	252	30	40	212	
_	TOTALS STAGE 2:	584	78	103	481	

STAGE 3: REMOVING TEMPORARY BYPASS & APPROACHES

	EXC. COMMON	FILL	EXPANDED FILL	WASTE
LOCATION	CY (4)	CY (1)	CY (2)	CY (1)
STA 7+50.03 - STA 9+85	337	30	40	297
STA 10+15 - STA 12+09.96	104	2	3	101
TOTALS STAGE 3:	441	32	43	398

- (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.
- (4) AGGREGATE DETOURS REMOVAL IS INCLUDED IN COMMON EXCAVATION TOTALS.

305.0110 BASE AGGREGATE DENSE 3/4-INCH

305.0120 BASE AGGREGATE DENSE 1 1/4-INCH

305.0410 AGGREGATE DETOURS

624.0100 WATER

			BASE AGGREGATE DENSE 3/4-INCH	BASE AGGREGATE DENSE 1 1/4-INCH	AGGREGATE DETOURS	WATER*
STATION	-	STATION	TON	TON	TON	MGAL
18+05.00	-	19+75.75	22	230	0	5
20+24.25	-	21+50	16	170	0	4
21+20, LT		F.E.	13	0	0	0
7+50.03	-	9+85	0	0	138	3
10+15.00	-	12+09.96	0	0	109	2
		TOTALS:	51	400	247	14

*ADDITIONAL QUANTITY INCLUDED WITH EROSION CONTROL ITEMS

455.0605 TACK COAT 465.0105 ASPHALTIC SURFACE

				ASPHALTIC
			TACK COAT	SURFACE
STATION	-	STATION	GAL	TON
18+05.00	-	19+75.75	17	76
20+24.25	-	21+50.00	13	56
		TOTALS:	30	132

526.0100.01 TEMPORARY STRUCTURE STATION 10+00

	LS
TEMPORARY STRUCTURE STATION 10+00	1
TOTAL:	1

625.0500 SALVAGED TOPSOIL

627.0200 MULCHING

629.0210 FERTILIZER TYPE B

630.0160 SEEDING MIXTURE NO. 60

630.0200 SEEDING TEMPORARY

624.0100 WATER

STATION	_	STATION	LOCATION	SALVAGED TOPSOIL SY	MULCHING SY	FERTILIZER CWT	SEEDING #60 LB	SEEDING TEMPORARY LB	WATER* MGAL
7+50	_	10+00	LT		100	0.10		5	4
8+50	-	10+00	RT		50	0.05		1	1
10+00	_	12+10	LT		85	0.05		3	3
10+00	_	11+00	RT		40	0.05		1	1
17+60	_	20+00	LT	615	485	0.45	10	19	16
18+05	-	20+00	RT	140	115	0.15	3	6	5
20+00	-	22+00	LT	405	340	0.30	6	13	11
20+00	-	21+50	RT	115	10	0.10	2	5	4
UNDIS	TRIE	BUTED		325	275	0.40	4	7	5
•		TOTALS:		1600	1500	1.65	25	60	50

*ADDITIONAL QUANTITY INCLUDED WITH BASE AGGREGATE ITEMS.

628.1504 SILT FENCE

628.1520 SILT FENCE MAINTENANCE

				FENCE	MAINT.
STATION	-	STATION	LOCATION	LF	LF
18+00	-	21+50	LT	285	285
18+00	-	21+50	RT	280	280
UNDIS	STRI	BUTED	-	85	85
			TOTALS:	650	650

PROJECT NO: 5346-00-00

HWY: TOWN ROAD

COUNTY: LA CROSSE

MISCELLANEOUS QUANTITIES

PLOT BY : janyder

PLOT NAME :

PLOT SCALE : 1:20

SHEET

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

628.6005 TURBIDITY BARRIERS

LOCATION	SY
SOUTH ABUT	206
NORTH ABUT	206
UNDISTRIBUTED	88
TOTAL:	500

628.2008 EROSION MAT URBAN CLASS I TYPE B

				URBAN
				CLASS I
				TYPE B
STATION	-	STATION	LOCATION	SY
18+00		20+00	LT	265
19+50		19+75	RT	34
20+10		21+10	LT	163
20+25		21+00	RT	133
			UNDISTRIBUTED	105
•			TOTAL:	700

628.7504 TEMPORARY DITCH CHECKS

		TEMPORARY				
		DITCH				
		CHECKS				
STATION	LOCATION	LF				
19+50	LT	11				
20+25	LT	11				
20+35	RT	11				
UNDISTE	UNDISTRIBUTED					
	TOTAL:	40				

633.5100 MARKERS ROW

STATION	OFFSET	LOCATION	EACH
18+05	21.63	LT	1
18+05	27.87	RT	1
18+50	21.81	LT	1
18+50	27.69	RT	1
19+00	40.00	LT	1
19+00	40.00	RT	1
20+75	40.00	LT	1
20+75	40.00	RT	1
21+50	23.02	LT	1
21+50	26.48	RT	1
		TOTAL:	10

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

STATION	LOCATION	SIGN CODE	SIZE	SIGNS TYPE II REFLECTIVE F SF	WOOD POSTS EACH	REMOVING SIGNS TYPE II EACH	REMOVING SMALL SIGN SUPPORTS EACH	COMMENTS
17+15	RT	-	-	-	-	1	1	EXISTING ONE LANE BRIDGE SIGN
19+73	LT	W5-52L	12"x36"	3	1	-	-	OBJECT MARKER
19+73	RT	W5-52R	12"x36"	3	1	-	-	OBJECT MARKER
19+87	LT	-	-	-	-	1	1	EXISTING OBJECT MARKER
19+87	RT	-	-	-	-	1	1	EXISTING OBJECT MARKER
20+23	LT	-	-	-	-	1	1	EXISTING OBJECT MARKER
20+23	RT	-	-	-	-	1	1	EXISTING OBJECT MARKER
20+27	LT	W5-52R	12"x36"	3	1	-	-	OBJECT MARKER
20+27	RT	W5-52L	12"x36"	3	1	-	-	OBJECT MARKER
21+34	LT	-	-	-	-	1	1	EXISTING ONE LANE BRIDGE SIGN
		TOTALS:		12	4	6	6	

633.1100 DELINEATORS TEMPORARY

643.0300 TRAFFIC CONTROL DRUMS

643.0420 TRAFFIC CONTROL BARRICADES TYPE III

643.0705 TRAFFIC CONTROL WARNING LIGHTS TYPE A

643.0715 TRAFFIC CONTROL WARNING LIGHTS TYPE C 643.0900 TRAFFIC CONTROL SIGNS

			TRAFFIC	TRAFFIC	TRAFFIC	TRAFFIC	WARNING	WARNING	WARNING	WARNING	TRAFFIC	TRAFFIC
		DELINEATORS	CONTROL	CONTROL	CONTROL	CONTROL	LIGHTS	LIGHTS	LIGHTS	LIGHTS	CONTROL	CONTROL
		TEMPORARY	DRUMS	DRUMS	BARRICADES	BARRICADES	TYPE A	TYPE A	TYPE C	TYPE C	SIGNS	SIGNS
DESCRIPTION	DAYS	EACH	EACH	DAYS	EACH	DAYS	EACH	DAYS	EACH	DAYS	EACH	DAYS
PROJECT 5346-00-00	80	32	24	1920	10	800	4	320	10	800	28	2240
TOTALS		32		1920		800		320		800		2240

650.4500 CONSTRUCTION STAKING SUBGRADE

650.5000 CONSTRUCTION STAKING BASE

650.9920 CONSTRUCTION STAKING SLOPE STAKES

650.9910 CONSTRUCTION STAKING SUPPLEMENTAL CONTROL 5346-00-00

					SLOPE	SUPPLEMENTA
			SUBGRADE	BASE	STAKES	CONTROL
STATION	-	STATION	LF	LF	LF	LS
7+50.03	-	9+85	235	235	235	-
10+15	-	12+09.96	195	195	195	-
18+05	-	19+75.75	171	171	171	-
20+24.25	-	21+50	126	126	126	-
		TOTALS:	727	727	727	1

690.0150 SAWING ASPHALT

PLOT SCALE : 1:20

STATION	LF
18+05	12
21+50	13
TOTAL:	25

PROJECT NO: 5346-00-00

HWY: TOWN ROAD

COUNTY: LA CROSSE

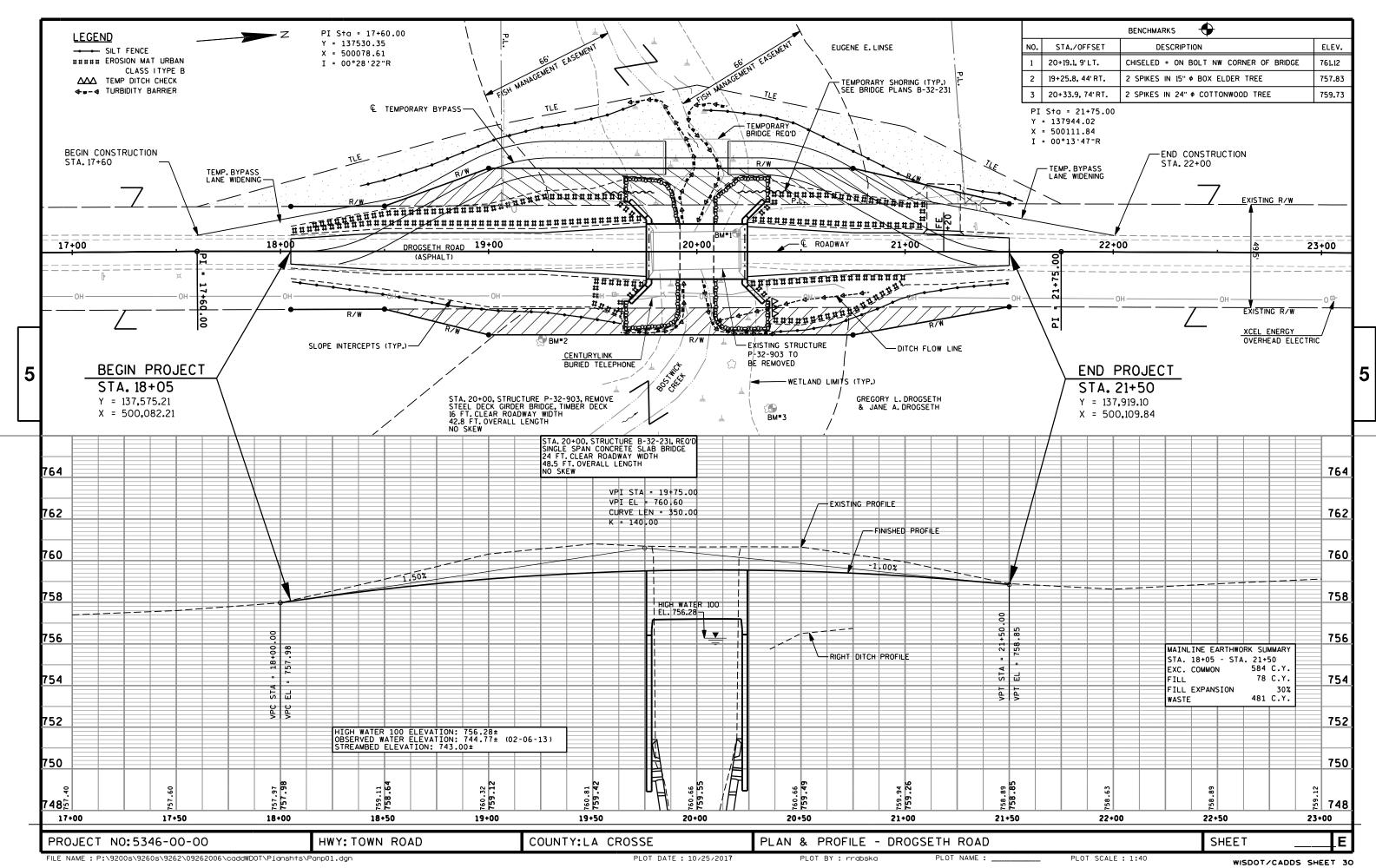
MISCELLANEOUS QUANTITIES

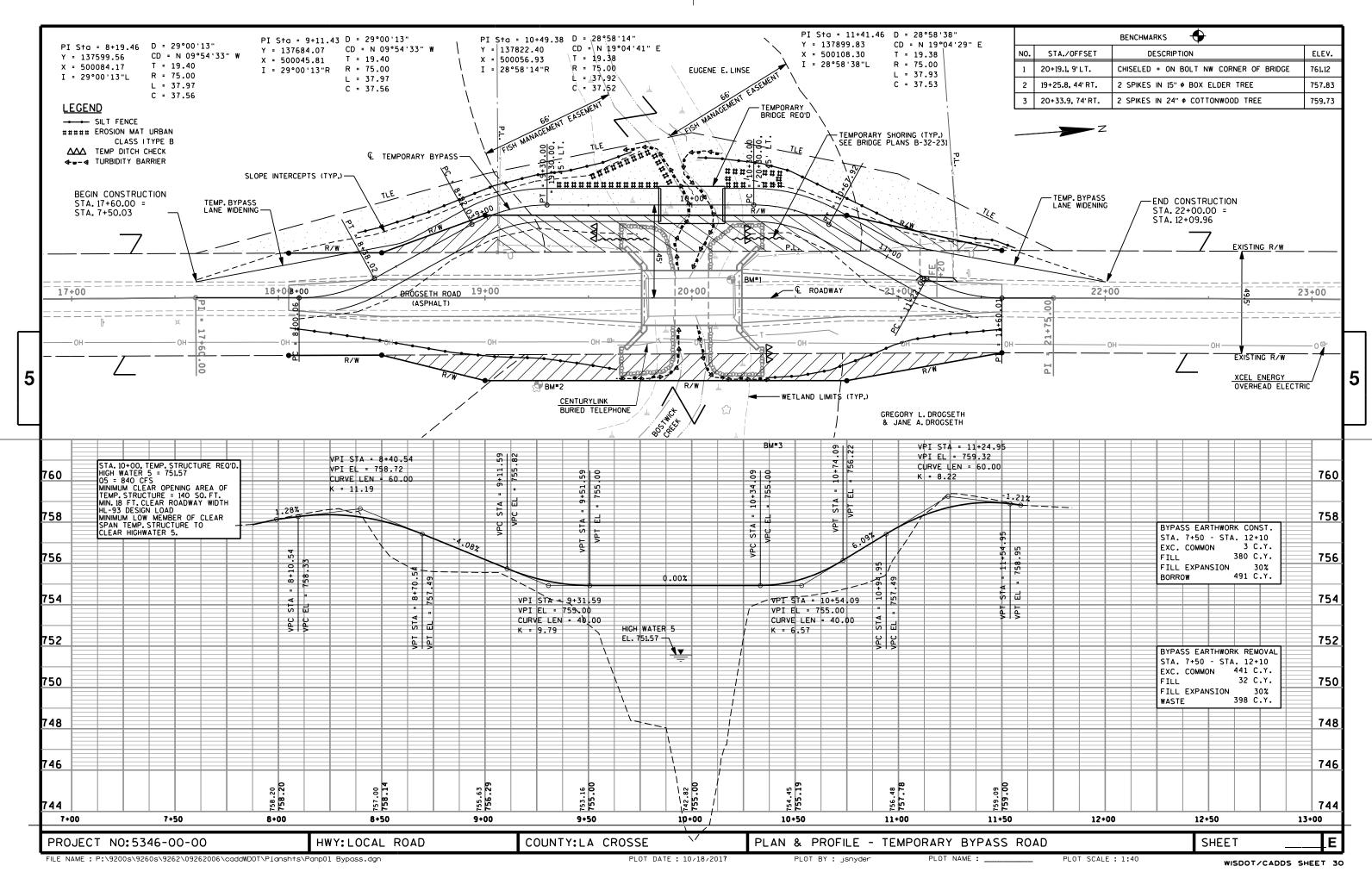
SHEET

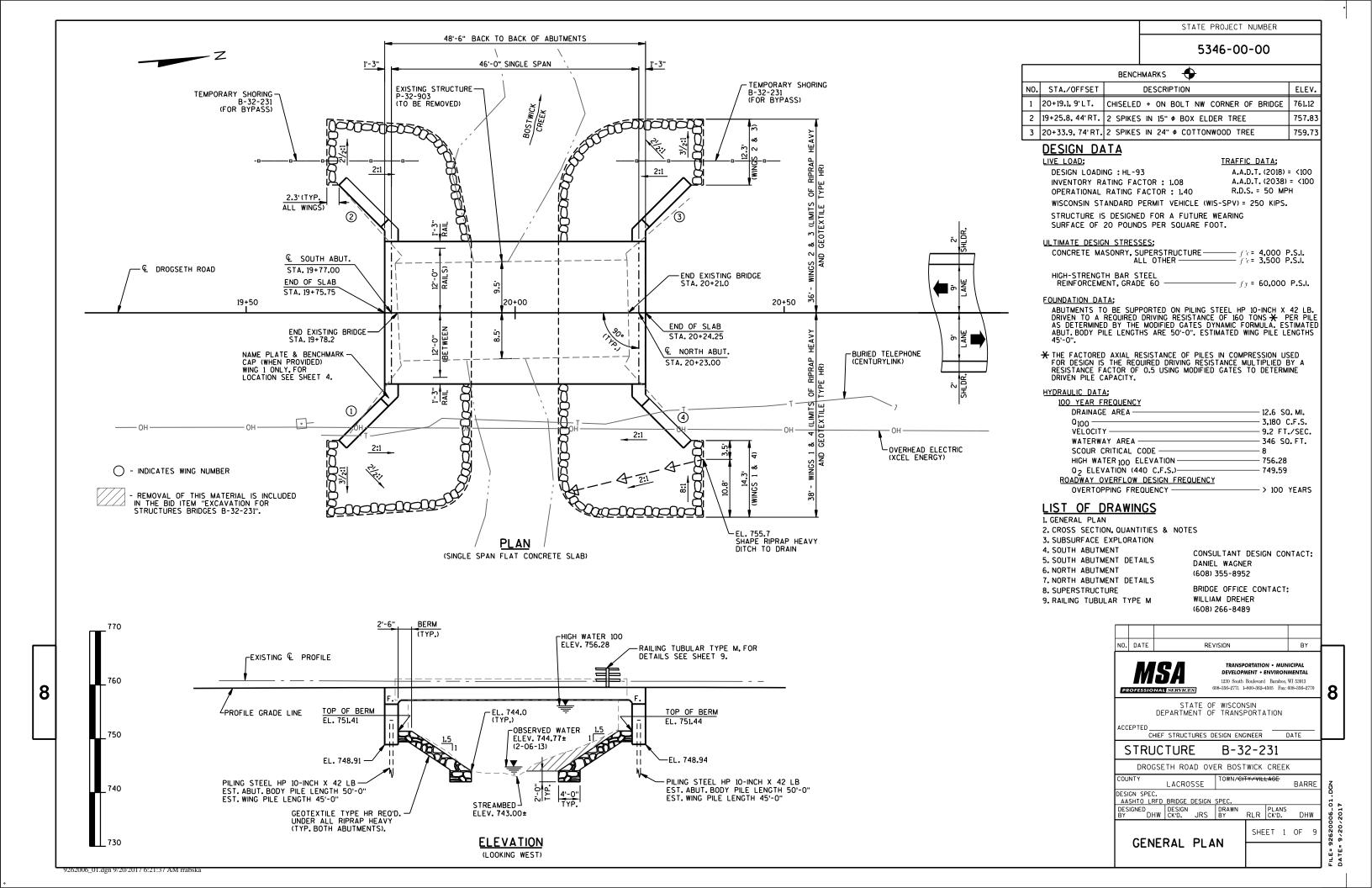
FILE NAME: P:\9200s\9260s\9262\09262006\Documents\Estimate\09262006_MisoOty & Earthwork Borders.dgn

PLOT DATE: 8/8/2017

PLOT BY : janyder







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 EXISTING STRUCTURE P-32-903, AN 18 WIDE BY 42.8 FT.LONG STEEL DECK GIRDER BRIDGE WITH TIMBER DECK SUPPORTED ON TIMBER BACKED TIMBER PILE ABUTMENTS.

(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.

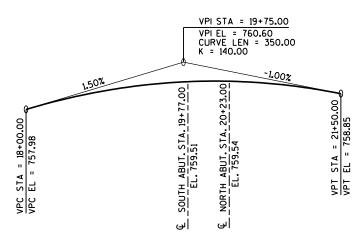
AT THE BACKFACE OF ABUTMENT ALL VOLUME WHICH CAN NOT BE PLACED BEFORE ABUTMENT CONSTRUCTION AND IS NOT OCCUPIED BY THE NEW STRUCTURE SHALL BE BACKFILLED WITH BACKFILL STRUCTURE TYPE A.

DO NOT PLACE FILL ABOVE 3'-0" FROM THE BOTTOM OF ABUTMENT UNTIL THE SUPERSTRUCTURE IS IN PLACE.

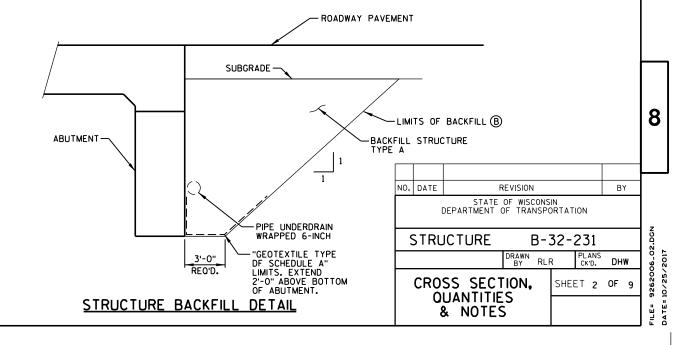
-PROTECTIVE SURFACE TREATMENT SHALL BE APPLIED TO THE TOP AND EDGES OF SLAB, TO THE OUTSIDE 1'-O" OF THE UNDERSIDE OF SLAB, TO THE TOPS OF WINGS, AND TO THE EXPOSED FRONT FACES OF WINGS AND ABUTMENTS TO 1'-O" IN FROM THE EDGE OF SLAB.

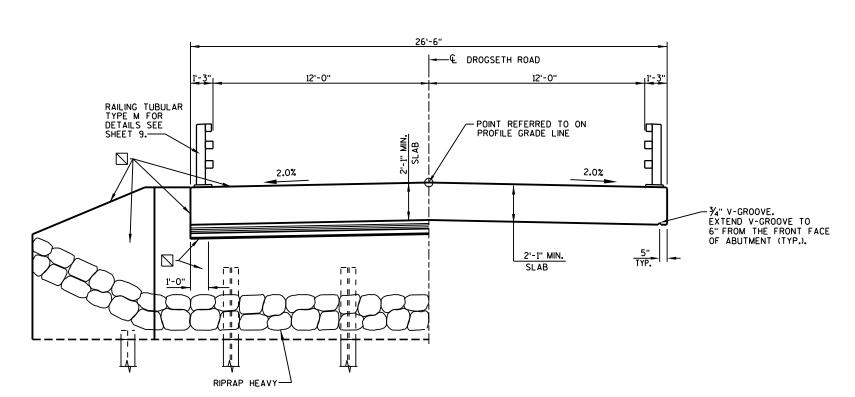
ELEVATIONS SHOWN ON THIS PLAN ARE REFERENCED TO USGS NAVD 88 (96 ADJUSTED). BENCHMARK REFERENCES AT THE PROJECT SITE WERE SET BY THE CONSULTANT USING GPS TECHNOLOGY.

FOR DETAILS OF TEMPORARY BYPASS AND TEMPORARY BRIDGE, SEE ROAD PLANS.



PROFILE GRADE LINE - DROGSETH ROAD





AT ABUTMENTS

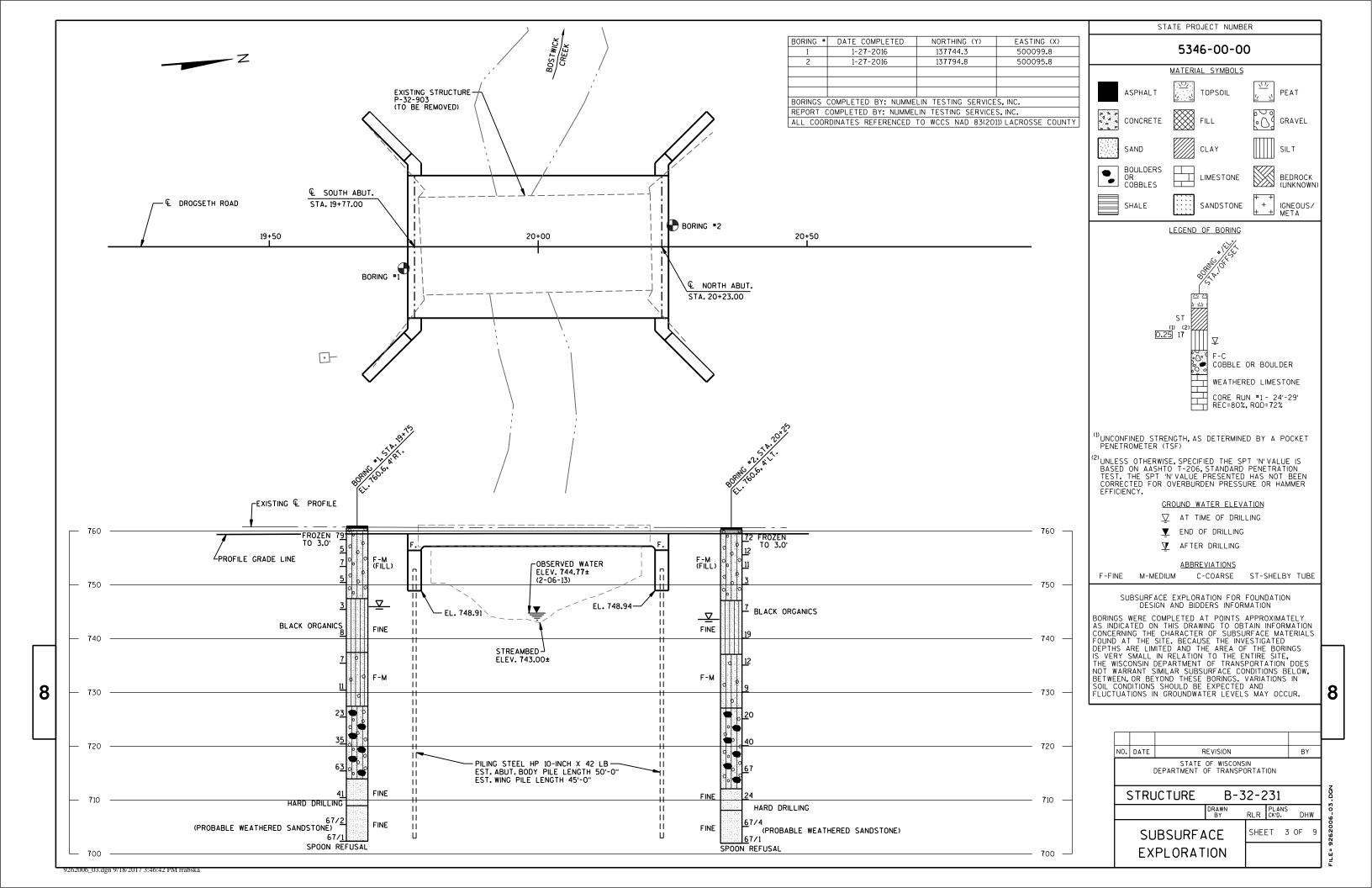
IN SPAN

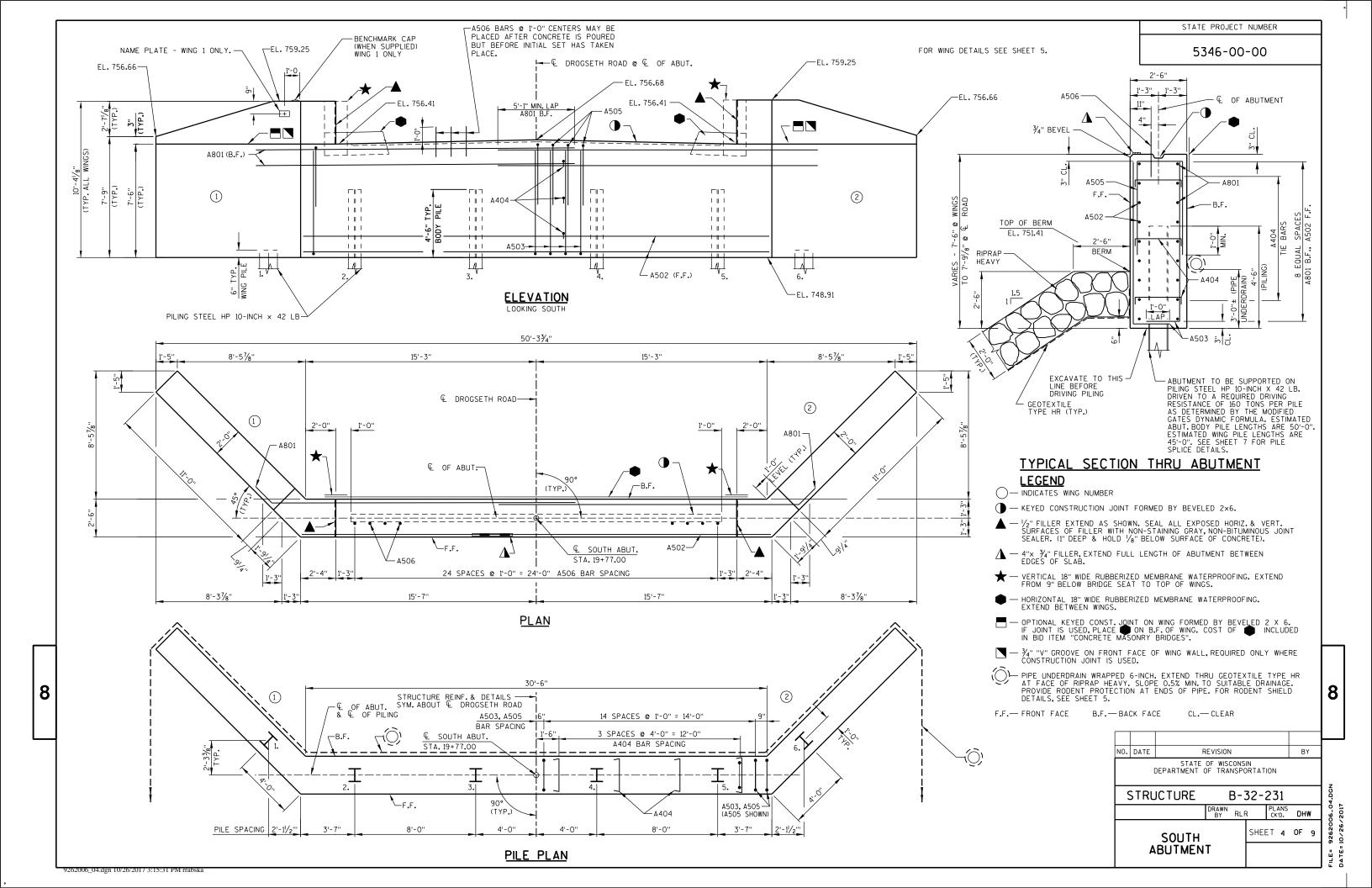
CROSS SECTION THRU BRIDGE

(LOOKING NORTH)

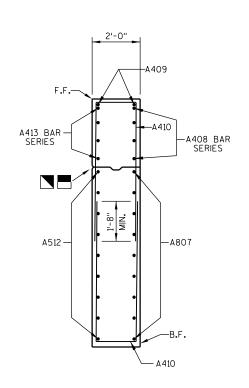
TOTAL ESTIMATED QUANTITIES

ITEM NUMBER	BID ITEM	UNIT	SOUTH ABUT.	NORTH ABUT.	SUPER	TOTAL
203.0600.S.01	REMOVING OLD STRUCTURE OVER WATERWAY WITH MINIMAL DEBRIS STATION 20+00 STRUCTURE B-32-231	LS	-	-	-	1
206.1000.01	EXCAVATION FOR STRUCTURES BRIDGES B-32-231	LS	,	-	-	1
210.1500	BACKFILL STRUCTURE TYPE A	TON	250	250	-	500
502.0100	CONCRETE MASONRY BRIDGES	CY	40	40	103	183
502.3200	PROTECTIVE SURFACE TREATMENT	SY	26	26	173	225
505.0400	BAR STEEL REINFORCEMENT HS STRUCTURES	LB	2270	2270	-	4540
505.0600	BAR STEEL REINFORCEMENT HS COATED STRUCTURES	LB	1920	1920	17350	21190
511.1200	TEMPORARY SHORING B-32-231	SF	210	210	-	420
513.4061.01	RAILING TUBULAR TYPE M B-32-231	LF	ı	-	102	102
516.0500	RUBBERIZED MEMBRANE WATERPROOFING	SY	6	6	-	12
550.1100	PILING STEEL HP 10-INCH X 42 LB	LF	290	290	-	580
606.0300	RIPRAP HEAVY	CY	120	125	-	245
612.0406	PIPE UNDERDRAIN WRAPPED 6-INCH	LF	85	85	-	170
645.0111	GEOTEXTILE TYPE DF SCHEDULE A	SY	110	110	-	220
645.0120	GEOTEXTILE TYPE HR	SY	230	240	-	470
	NON-BID ITEMS					
	PREFORMED FILLER	SIZE	-	-	-	1/2" & 3/4"



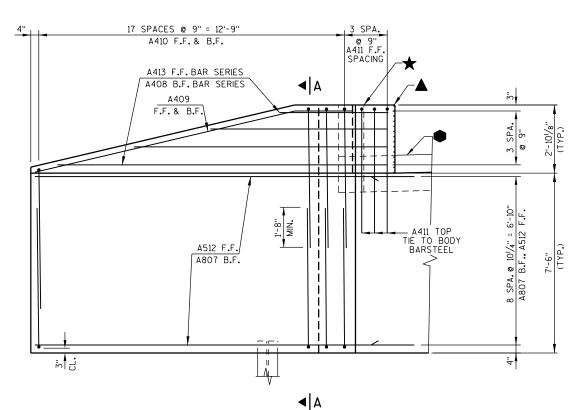


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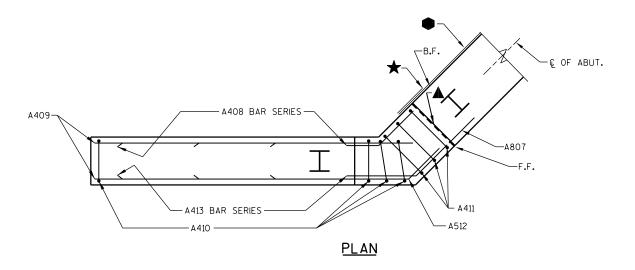


SECTION A-A THRU WING

NOTE: WING 1 SHOWN, WING 2 SIMILAR.



ELEVATION
(LOOKING AT F.F. OF WINGS)



BILL OF BARS (SOUTH ABUT.)

UNCOATED 2270 LBS. COATED 1920 LBS.

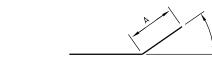
MARK	NUMBER COATED	REQUIRED UNCOATED	LENGTH	BENT	BAR SERIES	LOCATION
A801	-	18	21'-6"	Х		ABUTMENT BODY - B.F HORIZ.
A502	-	9	31'-0''			ABUTMENT BODY - F.F HORIZ.
A503	-	64	8'-6"	Х		ABUTMENT BODY - F.F. & B.F VERT.
A404	-	24	2'-9"	Х		ABUTMENT BODY - TIES - HORIZ.
A505	-	32	9'-11"	Х		ABUTMENT BODY - TOP - VERT.
A506	25	-	2'-0"			ABUTMENT BODY - TOP - DOWEL - VERT.
A807	18	-	16'-2"	Х		WINGS - B.F HORIZ.
A408	8	-	8'-0"	Х	\$	WINGS - B.F HORIZ.
A409	4	-	13'-6"	Х		WINGS - F.F. & B.F TOP - HORIZ.
A410	72	-	13'-2"	Х		WINGS - TOP & BOTTOM - VERT.
A411	6	-	12'-4"	Х		WINGS - TOP - VERT.
A512	18	-	14'-8''	Х		WINGS - F.F HORIZ.
A413	8	-	9'-6"	X	\$	WINGS - F.F HORIZ.

DIMENSIONS IN BENDING DETAILS ARE OUT TO OUT OF BAR.

BENT BARS IF USED IN BAR SERIES TABLE SHALL BE BENT AFTER CUTTING.

BAR MARK	NO. REQ'D.	LENGTH		
A408	2 SERIES OF 4	3'-3" TO 12'-9"		
A413	2 SERIES OF 4	4'-9" TO 14'-3"		

BAR SERIES TABLE



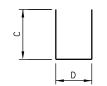
1'-7"

<u> 4503</u>

SEE LEGEND ON SHEET 4 FOR DESCRIPTION OF

 $\Delta \star \bullet \square \blacksquare \Delta$

MARK	Α	В
A801 A807 A512	1'-6"	45°
A408	1'-10''	45°
A409	2'-5"	14°
A413	2'-0''	45°

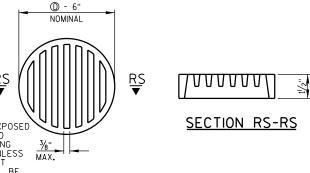


MARK	С	D
A404	41/2"	2'-2"
A505	4'-0''	2'-2"
A410	5'-10"	1'-8''
A411	5'-2"	2'-2"

RODENT SHIELD NOTES:

ORIENT SHIELD SO SLOTS ARE VERTICAL.

THE RODENT SHIELD SHALL BE A RS
PVC GRATE SIMILAR TO THIS DETAIL.
THE GRATE IS COMMERCIALLY AVAILABLE
AS A FLOOR STRAINER.
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".



RODENT SHIELD

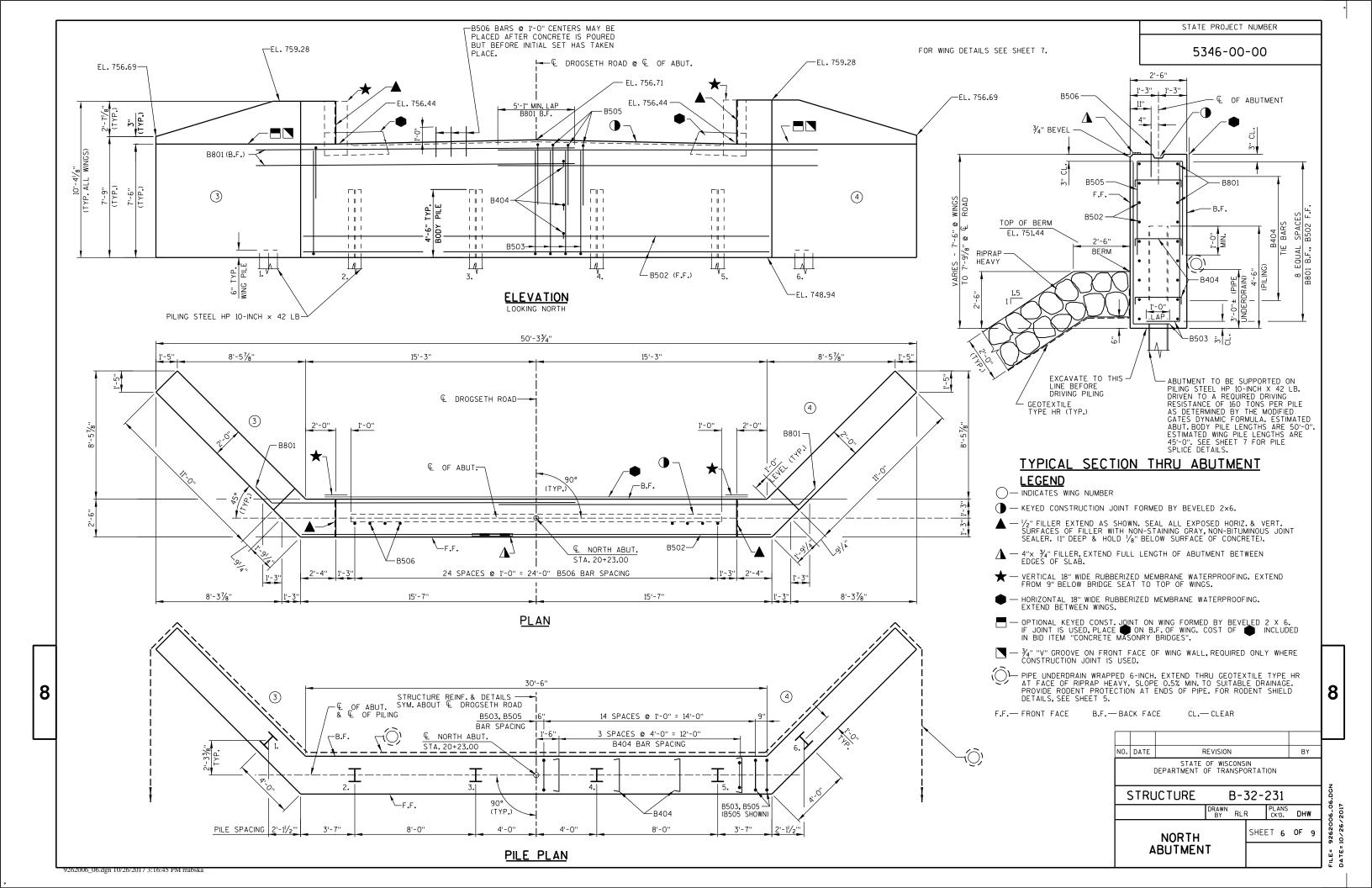
O - DIMENSIONS ARE APPROXIMATE. THE GRATE IS SIZED TO FIT INTO A PIPE COUPLING.

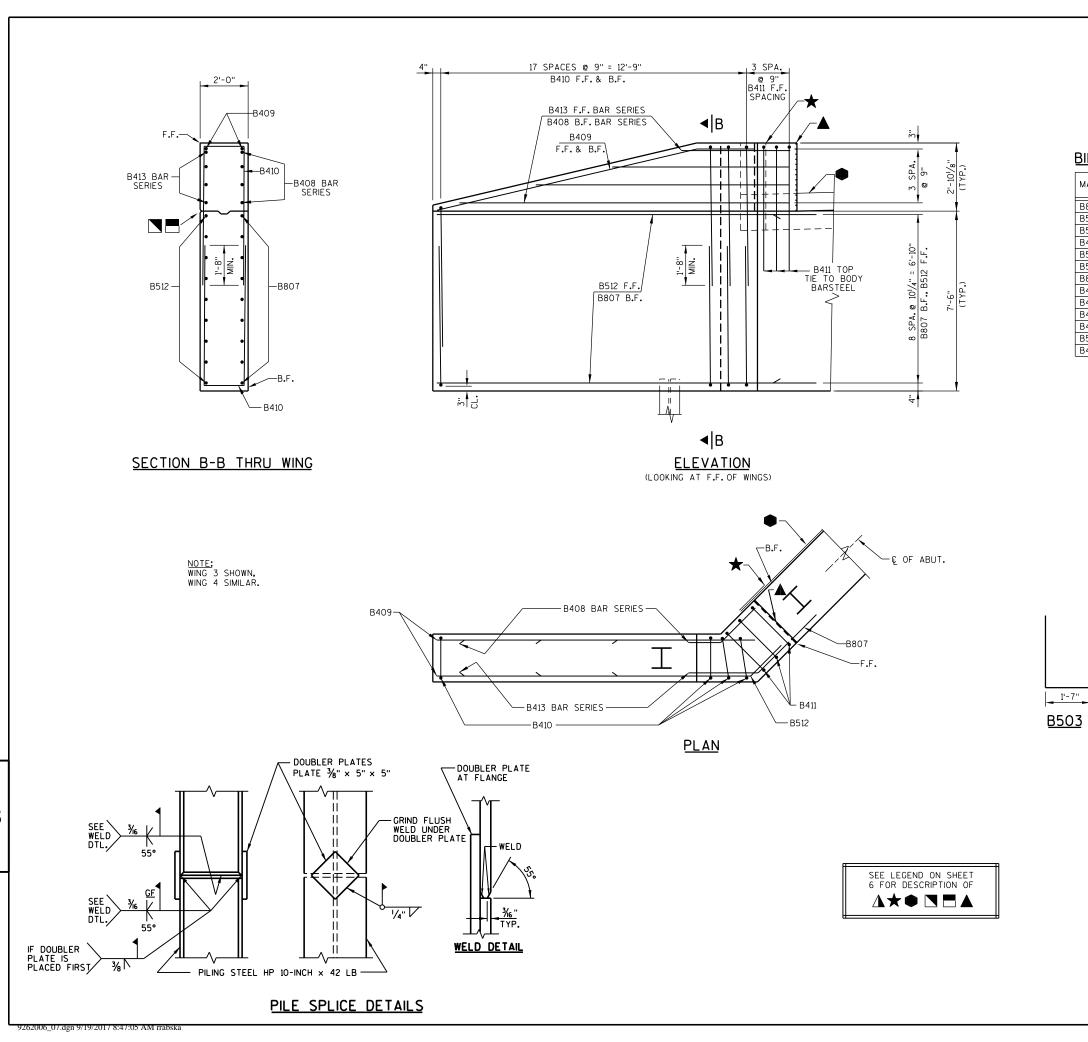
NO. DATE REVISION BY

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

ILE= 9262006_05.DG

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STATE PROJECT NUMBER

5346-00-00

BILL OF BARS (NORTH ABUT.)

UNCOATED 2270 LBS. COATED 1920 LBS.

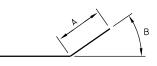
MARK	NUMBER COATED	REQUIRED UNCOATED	LENGTH	BENT	BAR SERIES	LOCATION		
B801	-	18	21'-6"	Х		ABUTMENT BODY - B.F HORIZ.		
B502	-	9	31'-0''			ABUTMENT BODY - F.F HORIZ.		
B503	-	64	8'-6"	Х		ABUTMENT BODY - F.F. & B.F VERT.		
B404	-	24	2'-9"	Х		ABUTMENT BODY - TIES - HORIZ.		
B505	-	32	9'-11"	Х		ABUTMENT BODY - TOP - VERT.		
B506	25	-	2'-0"			ABUTMENT BODY - TOP - DOWEL - VERT.		
B807	18	-	16'-2"	Х		WINGS - B.F HORIZ.		
B408	8	-	8'-0''	Х	\$	WINGS - B.F HORIZ.		
B409	4	-	13'-6"	Х		WINGS - F.F. & B.F TOP - HORIZ.		
B410	72	-	13'-2"	Х		WINGS - TOP & BOTTOM - VERT.		
B411	6	-	12'-4"	Х		WINGS - TOP - VERT.		
B512	18	-	14'-8"	Х		WINGS - F.F HORIZ.		
B413	8	-	9'-6"	Х	\$	WINGS - F.F HORIZ.		
						·		

DIMENSIONS IN BENDING DETAILS ARE OUT TO OUT OF BAR.

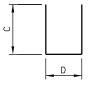
BENT BARS IF USED IN BAR SERIES TABLE SHALL BE BENT AFTER CUTTING.

BAR MARK	NO. REQ'D.	LENGTH		
B408	2 SERIES OF 4	3'-3" TO 12'-9"		
R413	2 SERIES OF 4	4'-9" TO 14'-3"		

BAR SERIES TABLE



MARK	Α	В
B801 B807 B512	1'-6"	45°
B408	1'-10''	45°
B409	2'-5"	14°
B413	2'-0''	45°



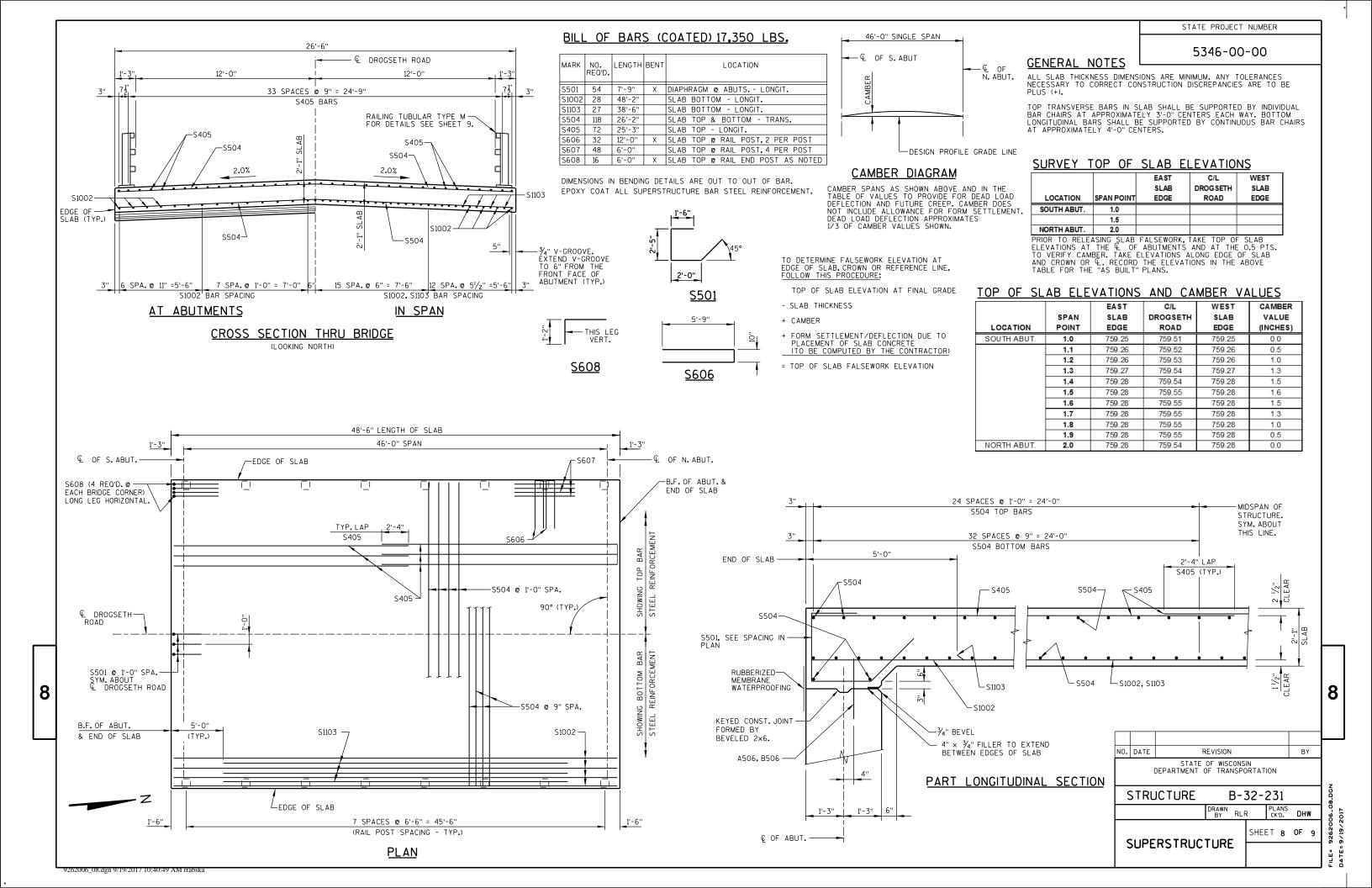
MARK	С	D
B404	41/2"	2'-2"
B505	4'-0''	2'-2"
B410	5'-10"	1'-8''
B411	5'-2"	2'-2"

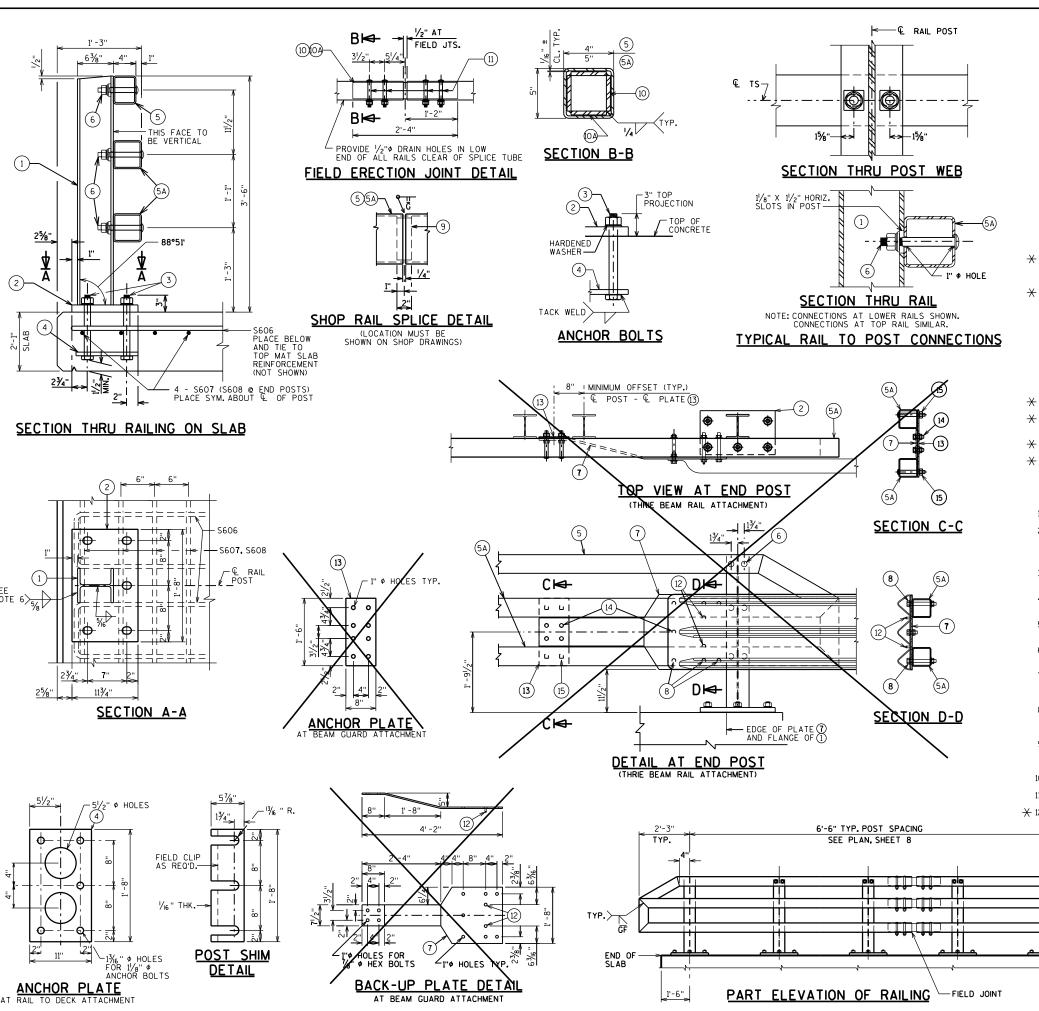
BY

DATE REVISION BY
STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

LE= 9262006_07.DG

8





STATE PROJECT NUMBER

5346-00-00

LEGEND

- \bigodot W6 x 25 With 1½" X 1½" Horiz slots on each side of post for bolt no.6. Cut bottom of post to match cross slope of roadway. Place post vertical. Place posts normal to grade line.
- ② PLATE $1^1/_4$ " \times $1^3/_4$ " \times 1^3 -8" WITH $1^5/_6$ " \times $1^5/_6$ " SLOTTED HOLES FOR ANCHOR BOLTS NO. 3. WELD TO NO. 1 AS SHOWN. SLOTS PARALLEL TO SHORT SIDE OF PLATE.
- (3) ASTM A449 $1^1\!/_8$ " DIA. ANCHOR BOLTS WITH NUT AND HARDENED WASHER (ALL GALVANIZED). 5 REO'D. PER POST. THREAD 3" AND PLACE NORMAL TO PLATE NO. 2. CHAMFER TOP OF BOLTS BEFORE THREADING. USE 1'-3" LONG.
- 4%" × 11" × 1'-8" ANCHOR PLATE (GALVANIZED) WITH 1%" DIA. HOLES FOR ANCHOR BOLTS NO. 3
- \bigcirc TS 5 \times 4 \times 0.25 STRUCTURAL TUBING. ATTACH TO NO.1 WITH NO.6.
- 5A TS 5 x 5 x 0.25 STRUCTURAL TUBING. ATTACH TO NO.1 WITH NO.6.
- 6 % " DIA. A325 SLOTTED ROUND HEAD BOLT WITH NUT, % " X 1% " X 1% " WASHER, AND LOCK WASHER (2 REO'D. AT EACH RAIL TO POST LOCATION.)
- \times 7) $^{\prime}$ / $^{\prime}$ " THK. BACK-UP PLATE WITH 2 $^{\prime}$ / $^{\prime}$ %" X 1 $^{\prime}$ / $^{\prime}$ " THREADED SHOP WELDED STUDS (NO. 12). BOLT TO RAIL AS SHOWN IN DETAIL. REQUIRED AT THRIE BEAM GUARD RAIL ATTACHMENTS ONLY. PLACE SYMMETRICALLY ABOUT TUBES NO. 5A.
- \times (8) I" DIA. HOLES IN PLATE NO. 7 & TUBES NO. 5A FOR % DIA. A325 BOLTS WITH HEX NUTS AND WASHERS. 6 HOLES IN TUBES AND PLATE NO. 7.
- 9 SPLICE SLEEVE FABRICATED FROM 1/4" PLATE. PROVIDE "SLIDING FIT".
- 10~3% X ~35% X 2'-4" PLATE. 2 PER RAIL. USED IN NO.5 & 5A.
- (0) %" X 2%" X 2'-4" PLATE USED IN NO.5, %" X 3%" X 2'-4" PLATE USED IN NO.5A.
- (1) % $^{\circ}$ A 325 ROUND HEAD BOLT WITH NUT, WASHER, AND LOCK WASHER. USE % " X $1^{\prime}\!\!/_{\!\!4}$ " LONGIT. SLOTTED HOLES AT FIELD JOINTS IN PLATE NO. 10A.
- + (12) $\frac{1}{8}$ " DIA. X $\frac{1}{2}$ " LONG THREADED SHOP WELDED STUDS (2 REO'D).
- \star (3 $\rm 3\%$ x 8" x 1"-6" anchor plate, bolt to rail as shown in detail, regud, at thrie beam guard rail attachments only. Place sym. about tubes no.5a.
- + 14 %" DIA. X 2" LONG A325 HEX BOLT WITH NUT AND WASHER (5 REQUIRED).
- \bigstar (5) I" ϕ holes in Tubes no.5A for % "dia.a325 round head bolt with nut, washer, and lock washer (4 reo'd.). 4 holes in Tubes.

GENERAL NOTES

- I. BID ITEM SHALL BE "RAILING TUBULAR TYPE M B-32-231" WHICH INCLUDES ALL ITEMS SHOWN.
- 2. RAIL POST AND BASE PLATES SHALL CONFORM TO THE REQUIREMENTS OF ASTM A709 GRADE 50. HOLLOW RAILING STRUCTURAL TUBING SHALL CONFORM TO THE REQUIREMENTS OF ASTM A500 GRADE B OR C WITH A CERTIFIED FY = 50 KSI. ANCHOR PLATES, AND SPLICE TUBE PLATES SHALL CONFORM TO THE REQUIREMENTS OF ASTM A709 GRADE 36.
- 3. THE NUT SECURING THE POST BASE PLATE TO THE CONCRETE SHALL BE TIGHTENED TO A SNUG FIT AND GIVEN AN ADDITIONAL $\%_8$ TURN.
- 4. RAILS SHALL BE CONTINUOUS OVER A MINIMUM OF THREE (3) POSTS WITHOUT SPLICES WHERE POSSIBLE.
- 5. ENDS OF TUBE SECTIONS SHALL BE SAWED. GRIND SMOOTH EXPOSED EDGES. ALL CUT ENDS SHALL BE TRUE AND SMOOTH.
- 6. WELD IS THE SAME ON BOTH FLANGES. FLANGE WELD DOES NOT REQUIRE MAGNETIC PARTICLE TESTING.
- 7. FILL BOLT SLOT OPENINGS IN POST SHIMS AND PLATE NO.2 AND CAULK AROUND PERIMETER OF PLATE NO.2 WITH NON-STAINING GRAY NON-BITUMINOUS JOINT SEALER. STEEL POST SHIMS MAY BE USED UNDER POSTS WHERE REO'D. FOR ALIGNMENT.
- 8. POST BASE PLATES SHALL BE FLAT WITH ALL SURFACES SMOOTH AND FREE FROM WARP AND ALL EDGES SMOOTH, STRAIGHT AND VERTICAL. ALL PLATE CUTS SHALL BE MACHINE OR MACHINE FLAME CUT.
- 9. ALL MATERIAL SHALL BE GALVANIZED AFTER FABRICATION. PRIOR TO GALVANIZING, ALL STEEL RAILING POSTS & STEEL TUBING SHALL BE GIVEN A NO.6 BLAST CLEANING BY S.S.P.C. SPECIFICATIONS.
- 10. PAINTING IS NOT REQUIRED
- 11. THIS RAILING MEETS NCHRP REPORT 350 EVALUATION CRITERIA FOR TEST LEVEL 4 (TL-4).
- ★ 12. DO NOT FURNISH ITEMS 7, 8, 12, 13, 14 AND 15. THRIE BEAM RAIL ATTACHMENT IS NOT INCLUDED.



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PROJECT I.D. 5346-00-00 EARTHWORK SUMMARY

	STAGE 1: PLACING TEMPORARY BYPASS AND APPROACHES					
	EXCAVATION	EXCAVATION		EXPANDED		
	COMMON	ROCK	FILL (1)	FILL (2)	WASTE (1)	BORROW
STA	CY	CY	CY	CY	CY	CY
17+60.00						
	0	0	8	10	-10	10
18+05.00						
	0	0	28	36	-36	36
18+50.00						
	0	0	27	35	-35	35
19+00.00						
	1	0	4	5	-4	4
19+25.00						
	2	0	115	150	-148	148
19+65.00						
	0	0	112	146	-146	146
19+85.00						
	TEM	PORARY BYPASS				
20+15.00						
	0	0	17	22	-22	22
20+35.00						
	0	0	8	10	-10	10
20+50.00						
	0	0	13	17	-17	17
20+75.00		_				
24 22 22	0	0	25	33	-33	33
21+20.00	•	0	44	4.4	4.4	4.4
04 50 00	0	0	11	14	-14	14
21+50.00	•	0	40	40	40	40
00.00.00	0	0	12	16	-16	16
22+00.00						
SUBTOTALS	•	•	00.4	000	070	070
BYPASS SOUTH APPROACH	3	0	294	382	-379	379
BYPASS NORTH APPROACH	0	0	86	112	-112	112
TOTALS STAGE 1	3	0	380	494	-491	491

	STAGE 2: DROGS	SETH ROAD BRIDG	E APPROACHES	3		
	EXCAVATION	EXCAVATION		EXPANDED		
	COMMON	ROCK	FILL (1)	FILL (2)	WASTE	BORROW
STA	CY	CY	CY	CY	CY	CY
18+05.00						
	48	0	0	0	48	-48
18+50.00						
	98	0	0	0	98	-98
19+00.00						
	63	0	2	3	60	-60
19+25.00						
	98	0	31	40	58	-58
19+65.00						
	25	0	15	20	5	-5
19+75.75						
	STRU	ICTURE B-32-0231				
20+24.25						
	21	0	12	16	5	-5
20+35.00						
	39	0	12	16	23	-23
20+50.00						
	74	0	6	8	66	-66
20+75.00						
	87	0	0	0	87	-87
21+20.00						
	31	0	0	0	31	-31
21+50.00						
SUBTOTALS						
SOUTH APPROACH	332	0	48	63	269	-269
NORTH APPROACH	252	0	30	40	212	-212
UNUSABLE PAVEMENT (3)						47
TOTALS STAGE 2	584	0	78	103	481	-434

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PROJECT NO: 5346-00-00 HWY: TOWN ROAD COUNTY: LA CROSSE EARTHWORK SHEET E

FILE NAME: P:\9200a\9260a\9262\09262006\Documenta\Estimate\09262006_MiscOty & Earthwork Borders.dgn

PLOT DATE: 8/8/2017

PLOT BY : janyder

PLOT NAME :

PLOT SCALE : 1:20

WISDOT/CADDS SHEET 49

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

^{(2) -} FILL EXPANSION 30%

^{(3) -} EXISTING PAVEMENT BASED ON AVE THICKNESS OF 4" OF ASPHALT PER BORING LOG.

PROJECT I.D. 5346-00-00 EARTHWORK SUMMARY

STAGE 3: REMOVING TEMPORARY BYPASS & APPROACHES						
	EXCAVATION	EXCAVATION		EXPANDED		
	COMMON	ROCK	FILL (1)	FILL (2)	WASTE (1)	BORROW
STA	CY	CY	CY	CY	CY	CY
17+60.00						
	12	0	5	7	5	-5
18+05.00						
	36	0	8	10	26	-26
18+50.00						
	40	0	6	8	32	-32
19+00.00						
	13	0	2	3	10	-10
19+25.00		_	_			
	123	0	7	9	114	-114
19+65.00	110	•	•	•	440	440
40.05.00	113	0	2	3	110	-110
19+85.00	TEM	PORARY BYPASS				
20+15.00	I E IVIF	PURART BTPASS				
20+15.00	17	0	0	0	17	-17
20+35.00	17	U	U	U	17	-17
20+33.00	11	0	0	0	11	-11
20+50.00		Ü	O	O	" "	'''
20+30.00	19	0	0	0	19	-19
20+75.00	10	Ü	Ü	Ü	10	10
20.1.0.00	28	0	0	0	28	-28
21+20.00		-	-	-		_+
	13	0	0	0	13	-13
21+50.00					-	-
	16	0	2	3	13	-13
22+00.00						
SUBTOTALS						
BYPASS SOUTH APPROACH	337	0	30	40	297	-297
BYPASS NORTH APPROACH	104	0	2	3	101	-101
TOTALS STAGE 3	441	0	32	43	398	-398

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

(2) - FILL EXPANSION 30%

PROJECT NO: 5346-00-00

HWY: TOWN ROAD

COUNTY: LA CROSSE

EARTHWORK

PLOT BY : janyder

PLOT NAME :

SHEET

FILE NAME: P:\9200a\9260a\9262\09262006\Documenta\Estimate\09262006_MiscOty & Earthwork Borders.dgn

PLOT DATE: 8/8/2017

PLOT SCALE : 1:20

