Section No. 3

Section No. 3

Section No. 5

Section No. 6 Section No. 7

Section No. 8

Section No. 9

TOTAL SHEETS = 72

NOVEMBER 2017 STATE OF WISCONSIN ORDER OF SHEETS Section No. 1 **DEPARTMENT OF TRANSPORTATION** Typical Sections and Details (Includes Erosion Control Plan)

PLAN OF PROPOSED IMPROVEMENT

USH 61 - LIVINGSTON

(LEGGETT CREEK BRIDGE B-22-0286)

CTHE GRANT COUNTY

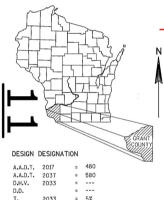
FEDERAL PROJECT STATE PROJECT PROJECT CONTRACT 5587-00-72 WISC 2017507 1

STRUCTURE AS-BUILT PLAN

SUPERVISOR: Tim Maedke

PROJECT LEADER: Gretchen Bockenhauer, IIW PC CONTRACTOR: Larson Construction, Company

WORK COMPLETED 9/13/18



= 30 mph

= 131,400

Estimate of Quantities

Plan and Profile

Structure Plans

Sign Plates

Miscellaneous Quantities

Standard Detail Drawings

Computer Earthwork Data

SUBCONTRACTOR LIST

N Arbor Green Augelli Concrete & Excavating Guide Line Pavement Markings

H. James and Sons

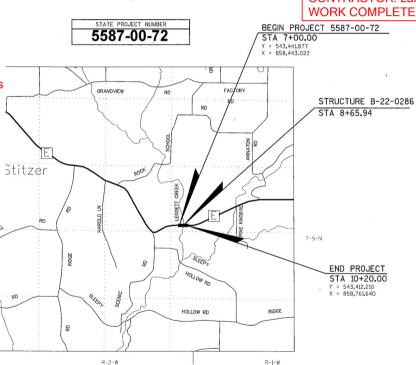
Hard Rock Sawing & Drilling

Hegg Contractor Hi-Boom Erecting

Iverson Construction

Safemark, LLC

SJK Engineering LLC



F-28476

ACCEPTED FOR

ORIGINAL PLANS PREPARED BY

Mead

Madison WI 53719

608.273.6380

fax: 608.273.6391 www.meadhunt.com

STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION

PREPARED BY Surveyor

Designer Managemen

KL ENGINEERING

Mead & Hunt, Inc Mead & Hunt, Inc.

CONVENTIONAL SYMBOLS

2033

DESIGN SPEED

EXISTING CULVERT

(Box or Pipe)

MARSH AREA

PROPOSED CULVERT

COMBUSTIBLE FLUIDS

WOODED OR SHRUB AREA

ESALS

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

PROFILE GRADE LINE ORIGINAL GROUND MARSH OR ROCK PROFILE

(To be noted as such) SPECIAL DITCH GRADE ELEVATION CULVERT (Profile View) UTILITIES ELECTRIC -----FIBER OPTIC SANITARY SEWER STORM SEWER

TELEPHONE WATER UTILITY PEDESTAL POWER POLE ₫ TELEPHONE POLE

__ ROCK_

LABEL ___

LAYOUT

TOTAL NET LENGTH OF CENTERLINE = 0.060 MI.

-"COORDINATES ON THIS PLAN ARE REFERENCED TO THE WISCONSIN COUNTY COUNTY."

FILE NAME : X:\3016900\155830.01\TECH\CAD\55870002\SHEETSPLAN\010101 TI.DWG

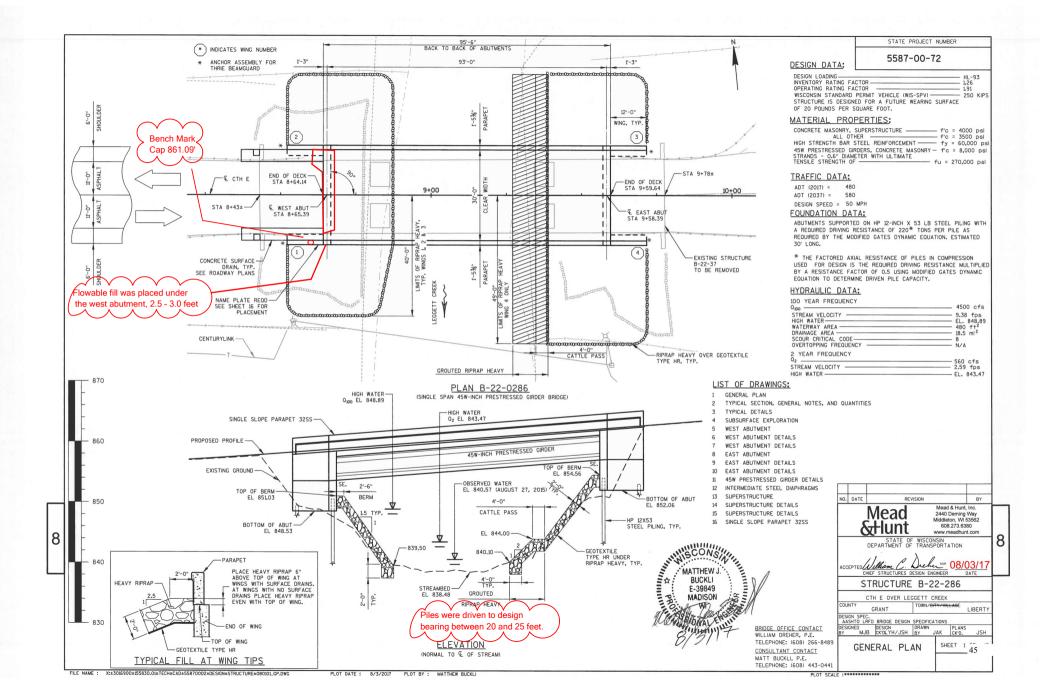
PLOT DATE: 12/29/2016 11:32 AM

PLOT BY: 1392JAK

PLOT NAME :

PLOT SCALE : 1:1

WISDOT/CADDS SHEET 15





5587-00-72

GENERAL NOTES

DRAWINGS SHALL NOT BE SCALED.

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

THE FIRST OR FIRST TWO DIGITS OF THE BAR MARK SIGNIFIES

THE SLOPE OF THE FILL IN FRONT OF THE ABUTMENTS SHALL BE COVERED WITH HEAVY RIPRAP OR GROUTED HEAVY RIPRAP AND GEOTEXTILE TYPE HR TO THE EXTENT SHOWN ON SHEET 1 AND IN THE ABUTMENT DETAILS.

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

THE EXISTING STRUCTURE TO BE REMOVED IS A 135' LONG BY 24.0' CLEAR ROADWAY WIDTH. THREE SPAN STEEL GIRDER BRIDGE WITH CONCRETE ABUTMENTS AND PIERS (B-22-0037).

ALL STATIONS AND ELEVATIONS ARE IN FEET.

ELEVATIONS SHOWN ON THE PLAN ARE REFERENCED TO NAVD88.

A" V-GROOVE REQ'D. EXTEND TO 6" FROM FRONT FACE OF ABUTMENT DIAPHRAGM.

THE HAUNCH CONCRETE QUANTITY IS BASED ON THE AVERAGE HAUNCH SHOWN ON THE PRESTRESSED GIRDER DETAIL SHEET.

THE UPPER LIMITS OF "EXCAVATION FOR STRUCTURE BRIDGES B-22-286" SHALL BE THE EXISTING GROUNDLINE.

32'-1034" 30'-0" CLEAR WIDTH 1'-5%" 1'-5%" 15'-0" 15'-0" € CTH E-SINGLE SLOPE PARAPET 32SS, TYP -POINT REFERRED TO ON PROFILE 2% 2% 2%" OVERHANG TYP (3) (4) -45W-INCH PRESTRESSED CONCRETE GIRDER, TYP 3 SPA AT 8'-6" = 25'-6" 3'-6" 3'-6" PRESTRESSED GIRDER SPACING 32'-6"

OVERALL DECK WIDTH TYPICAL SECTION

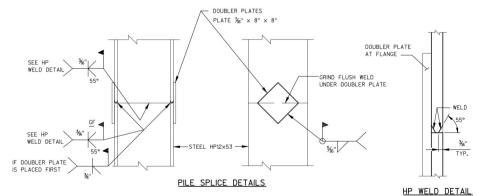
BENCH MARKS

NO.	STATION	OFFSET	DESCRIPTION	ELEV.
1	7+63.6	14.3' RT	SOUTH SIDE PK NAIL	855.34
2	10+15.8	27.3' LT	NORTH SIDE REBAR IN SHOULDER	862.76

TOTAL ESTIMATED QUANTITIES

8

BID ITEM NO.	BID ITEMS	UNIT	W ABUT	E ABUT	SUPER	TOTALS
203.0600.S	REMOVING OLD STRUCTURE OVER WATERWAY WITH MINIMAL DEBRIS STATION 9+12	LS				1
206.1000	EXCAVATION FOR STRUCTURES BRIDGES B-22-286	LS				1
210.1500	STRUCTURE BACKFILL TYPE A	TON	230	240		470
502.0100	CONCRETE MASONRY BRIDGES	CY	38	39	140	217
502.3200	PROTECTIVE SURFACE TREATMENT	SY			320	320
502,3210	PIGMENTED SURFACE SEALER	SY	10	10	80	100
503.0146	PRESTRESSED GIRDER TYPE I 45W-INCH	LF			376	376
505.0400	BAR STEEL REINFORCEMENT HS STRUCTURES	LB	1680	1680		3360
505.0600	BAR STEEL REINFORCEMENT HS COATED STRUCTURES	LB	2350	2370	22990	27710
506.2605	BEARING PADS ELASTOMERIC NON-LAMINATED	EACH			8	8
506.4000	STEEL DIAPHRAGMS B-22-286	EACH			6	6
516.0500	RUBBERIZED MEMBRANE WATERPROOFING	SY	7	7		14
550.1120	PILING STEEL HP 12-INCH X 53 LB	LF	210	210		420
606.0300	RIPRAP HEAVY	CY	205	210		415
606.0700	GROUTED RIPRAP HEAVY	CY		100		100
612.0406	PIPE UNDERDRAIN WRAPPED 6-INCH	LF	79	79		158
614.0150	ANCHOR ASSEMBLIES FOR STEEL PLATE BEAM GUARD	EACH	2	2		4
645.0111	GEOTEXTILE TYPE DF SCHEDULE A	SY	50	50		100
645.0120	GEOTEXTILE TYPE HR	SY	360	530		890
	NON BID ITEMS					
	FILLER	SIZE				1/2" & 3/4

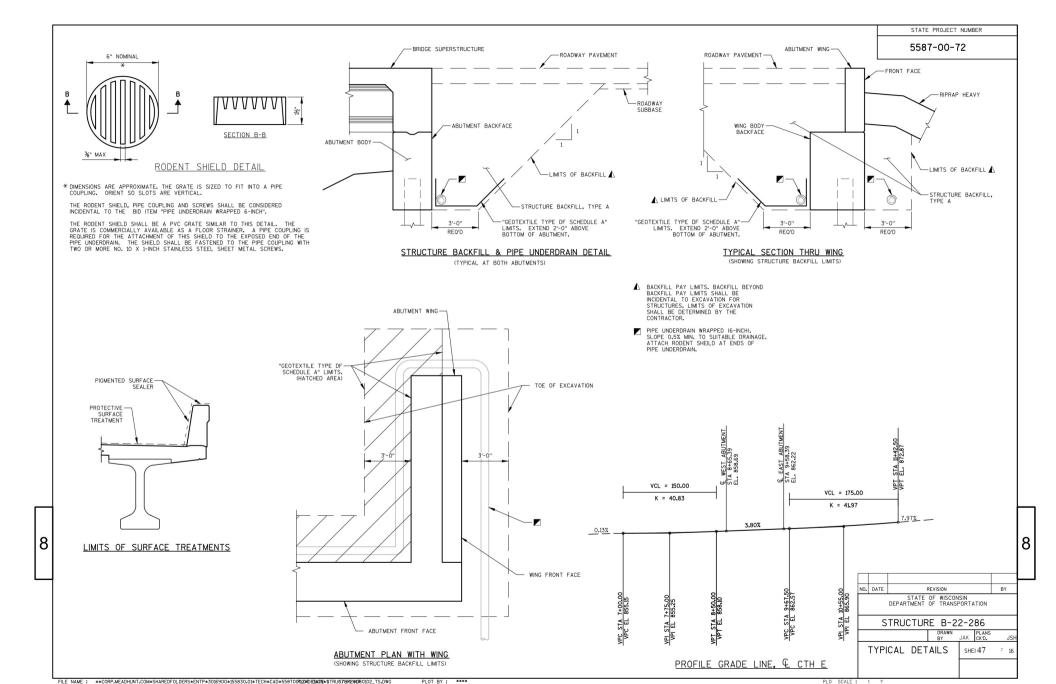


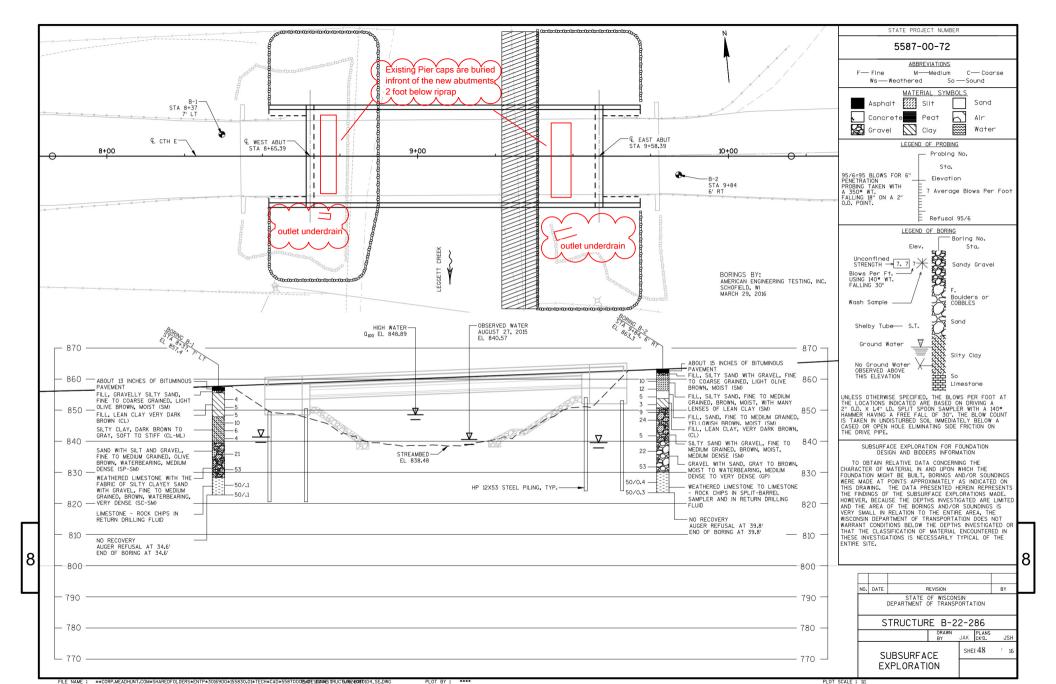
FLANGE SHOWN, WEB SIMILAR

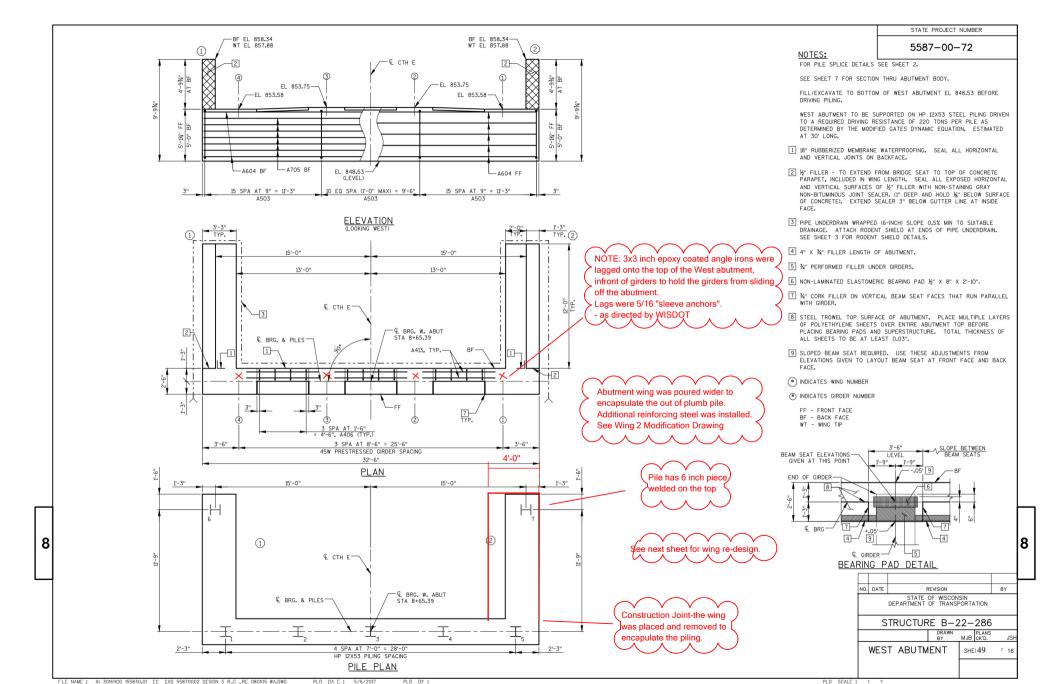
8

NO. DATE REVISION BY STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION STRUCTURE B-22-286 JAK CK'D. TYPICAL SECTION, SHEI 46

GENERAL NOTES. AND QUANTITIES







BILL OF BARS

304* COATED

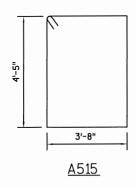
			_				
	BAR	4	NO.	LENGTH	4	BAR	LOCATION
	MARK	So,	REQUIRED	LENGIN	\$	SERIES	LOCATION
	A515	Х	12	16'-9"	Х		ADDITIONAL WING WALL - VERT
+	A516	Х	7	12'-10"			ADDITIONAL WING WALL - HORZ

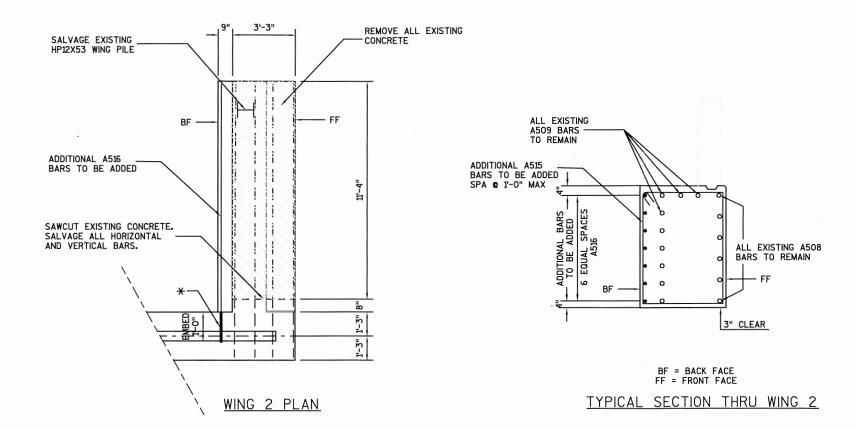
IOTE: BAR DIMENSIONS ARE OUT TO OUT OF BAR. THE FIRST DIGIT OF A THREE-DIGIT BAR MARK OR THE FIRST TWO DIGITS OF A FOUR-DIGIT BAR MARK SIGNIFIES THE BAR SIZE.

* ADHESIVE ANCHORS NO. 5. EMBED 1'-0" INTO EXISTING CONCRETE ABUTMENT.

GENERAL NOTES

THIS SHEET MOFIFIES WING 2 OF THE WEST ABUTMENT ONLY. ALL OTHER REINFORCEMENT IS TO FOLLOW THE ORIGINAL PLANS.

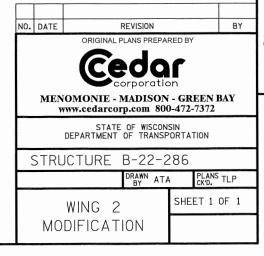




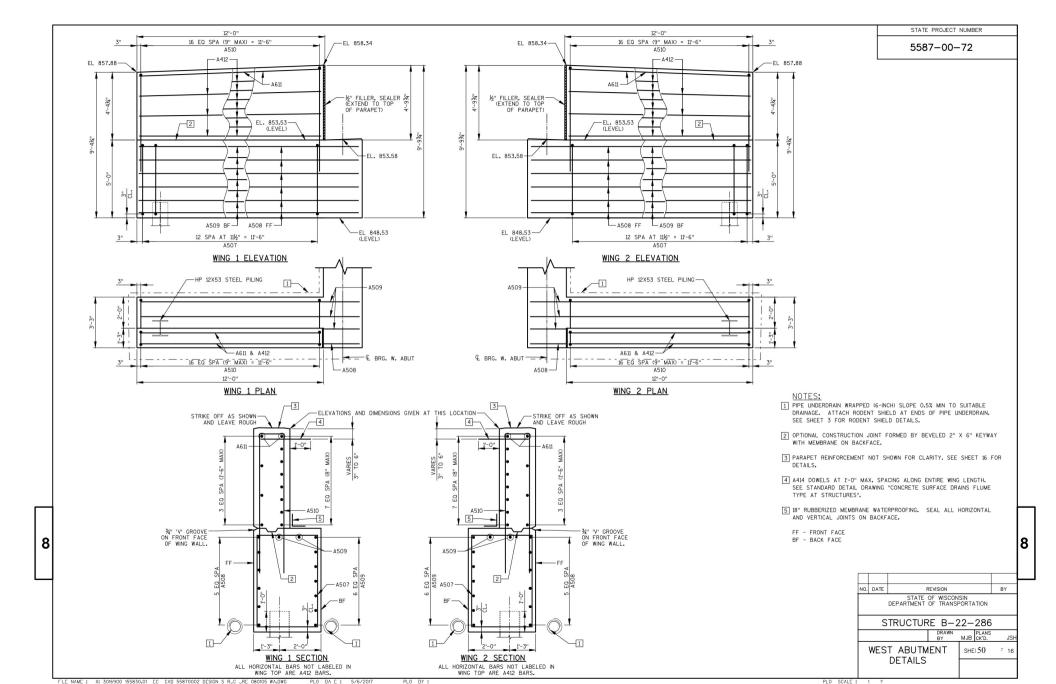
WEST ABUTMENT







8



STATE PROJECT NUMBER

5587-00-72

INTES:

1 18" RUBBERIZED MEMBRANE WATERPROOFING. SEAL ALL HORIZONTAL AND VERTICAL JOINTS ON BACKFACE.

2 PIPE UNDERDRAIN WRAPPED (6-INCH) SLOPE 0.5% MIN TO SUITABLE DRAINAGE. ATTACH RODENT SHIELD AT ENDS OF PIPE UNDERDRAIN. SEE SHEET 3 FOR RODENT SHIELD DETAILS

3 4" X ¾" FILLER LENGTH OF ABUTMENT.

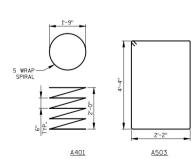
4 STEEL TROWEL TOP SURFACE OF ABUTMENT. PLACE MULTIPLE LAYERS OF POLYETHYLENE SHEETS OVER ENTIRE ABUTMENT TOP BEFORE PLACING BEARING PADS AND SUPERSTRUCTURE. TOTAL THICKNESS OF ALL SHEETS TO BE AT LEAST 0.039.

FF - FRONT FACE BF - BACK FACE BILL OF BARS WEST ABUTMENT COATED= 1620 LBS. UNCOATED= 1680 LBS.

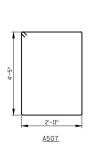
	NUM	(BER					
MARK	COATED	UNCOATED	LENGTH	BENT	BAR SERIES	LOCATION	
			FT - IN				
A401		5	28 - 0	Х		ABUTMENT BODY - 1 PER PILE	SPIRAL
A402		10	2 - 3			ABUTMENT BODY - 2 PER PILE	VERT
A503		41	13 - 8	Х		ABUTMENT BODY - STIRRUPS	VERT
A604		11	32 - 2			ABUTMENT BODY - FF, TOP, BTM	HORIZ
A705		6	32 - 2			ABUTMENT BODY - BF	HORIZ
A406		12	3 - 1	Х		ABUTMENT BODY - SEAT STEP	VERT
A507	26		15 - 4	Х		WING WALL - BODY	VERT
A508	12		14 - 2			WING WALL - FF OF BODY	HORIZ
A509	18		14 - 2			WING WALL - BODY	HORIZ
A510	34		14 - 0	Х		WING WALL - TOP TIES	VERT
A611	4		11 - 7			WING WALL - TOP	HORIZ
A412	20		11 - 7			WING WALL - TOP	HORIZ
A413		6	7 - 0			ABUTMENT BODY - SEAT STEP	HORIZ
A414	24		2 - 0			WING WALL - TOP DOWELS	HORIZ

BAR DIMENSIONS IN BENDING DETAILS ARE OUT TO OUT OF BARS.

THE FIRST OR FIRST TWO DIGITS OF A BAR MARK SIGNIFIES THE BAR SIZE.









NO, DATE REVISION BY

STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION

STRUCTURE B-22-286

| DRAWN BY MJB | PLANS BY MJB | PLA

AF . CORP.MEAD N. COM. S. ARCHEOLDERS EN P. 20162000 1558/20.01 FC. CAD. 558/20002 DESIGNED ROW FOR DREAMS/20WING. PLO

& BRG. & PILES

HP 12X53 STEEL PILING

SECTION THRU ABUTMENT BODY

ALL HORIZONTAL BARS NOT LABELED ARE A604 BARS.

¾" BEVEL,

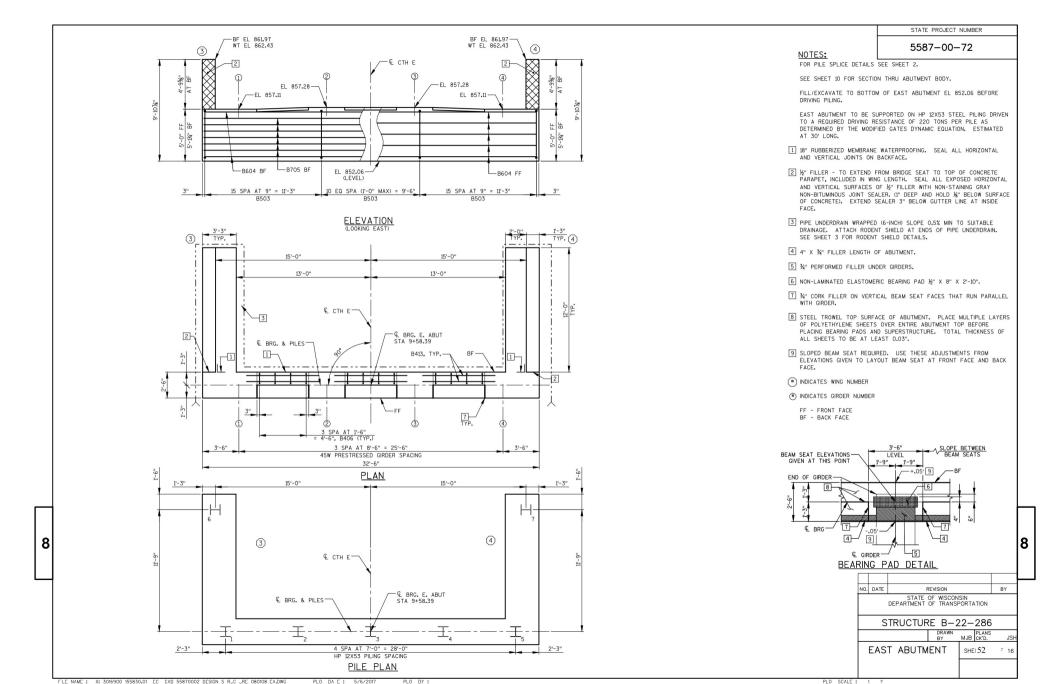
2'-6" BERM-EL 851.03

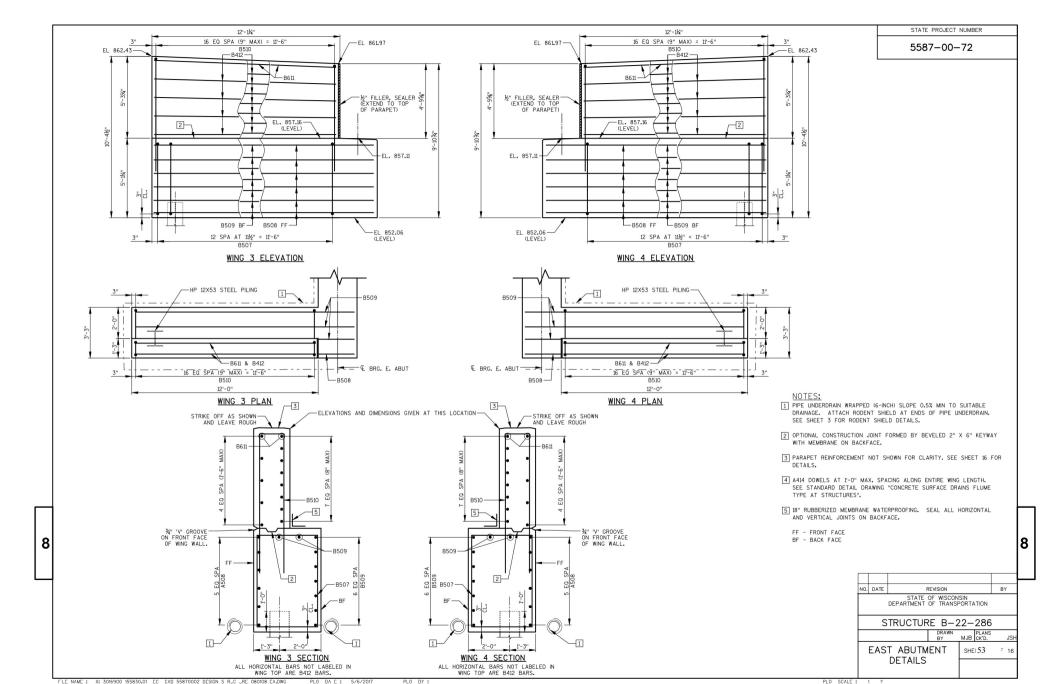
EL 848.53-

RIPRAP HEAVY OVER-GEOTEXTILE TYPE HR, SEE DETAILS ON SHEET 1

ID SCALE: 1

8





STATE PROJECT NUMBER

5587-00-72

NOTES:

1 B" RUBBERIZED MEMBRANE WATERPROOFING. SEAL ALL HORIZONTAL AND VERTICAL JOINTS ON BACKFACE.

2 PIPE UNDERDRAIN WRAPPED (6-INCH) SLOPE 0.5% MIN TO SUITABLE DRAINAGE. ATTACH RODENT SHIELD AT ENDS OF PIPE UNDERDRAIN. SEE SHEET 3 FOR RODENT SHIELD

3 4" X ¾" FILLER LENGTH OF ABUTMENT.

4 STEEL TROWEL TOP SURFACE OF ABUTMENT. PLACE MULTIPLE LAYERS OF POLYETHYLENE SHEETS OVER ENTIRE ABUTMENT TOP BEFORE PLACING BEARING PADS AND SUPERSTRUCTURE. TOTAL THICKNESS OF ALL SHEETS TO BE AT LEAST 0.039.

FF - FRONT FACE BF - BACK FACE

BILL OF BARS EAST ABUTMENT

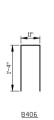
COATED= 1640 LBS. UNCOATED= 1680 LBS.

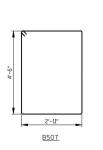
	NUM	(BER					
MARK	COATED	UNCOATED	LENGTH	BENT	BAR SERIES	LOCATION	
			FT - IN				
B401		5	28 - 0	X		ABUTMENT BODY - 1 PER PILE	SPIRAL
B402		10	2 - 3			ABUTMENT BODY - 2 PER PILE	VERT
B503		41	13 - 8	Х		ABUTMENT BODY - STIRRUPS	VERT
B604		11	32 - 2			ABUTMENT BODY - FF, TOP, BTM	HORIZ
B705		6	32 - 2			ABUTMENT BODY - BF	HORIZ
B406		12	3 - 5	Х		ABUTMENT BODY - SEAT STEP	VERT
B507	26		15 - 6	Х		WING WALL - BODY	VERT
B508	12		14 - 2			WING WALL - FF OF BODY	HORIZ
B509	18		14 - 2			WING WALL - BODY	HORIZ
B510	34		15 - 0	Х		WING WALL - TOP TIES	VERT
B611	4		11 - 7			WING WALL - TOP	HORIZ
B412	22		11 - 7			WING WALL - TOP	HORIZ
B413		6	7 - 0			ABUTMENT BODY - SEAT STEP	HORIZ

BAR DIMENSIONS IN BENDING DETAILS ARE OUT TO OUT OF BARS.

THE FIRST OR FIRST TWO DIGITS OF A BAR MARK SIGNIFIES THE BAR SIZE.

5 WRAP-2'-2" B401 B503







NO. DATE REVISION BY STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION STRUCTURE B-22-286 MJB CK'D. EAST ABUTMENT SHEL54 **DETAILS**

8

RIPRAP HEAVY OVER-GEOTEXTILE TYPE HR, SEE DETAILS ON SHEET 1

& BRG. & PILES

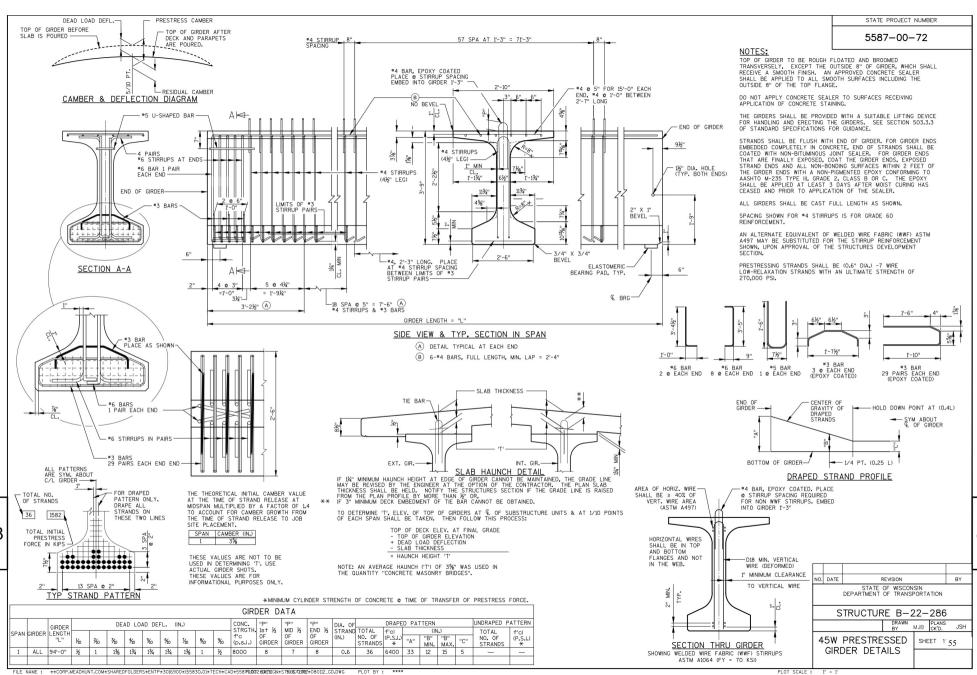
HP 12X53 STEEL PILING

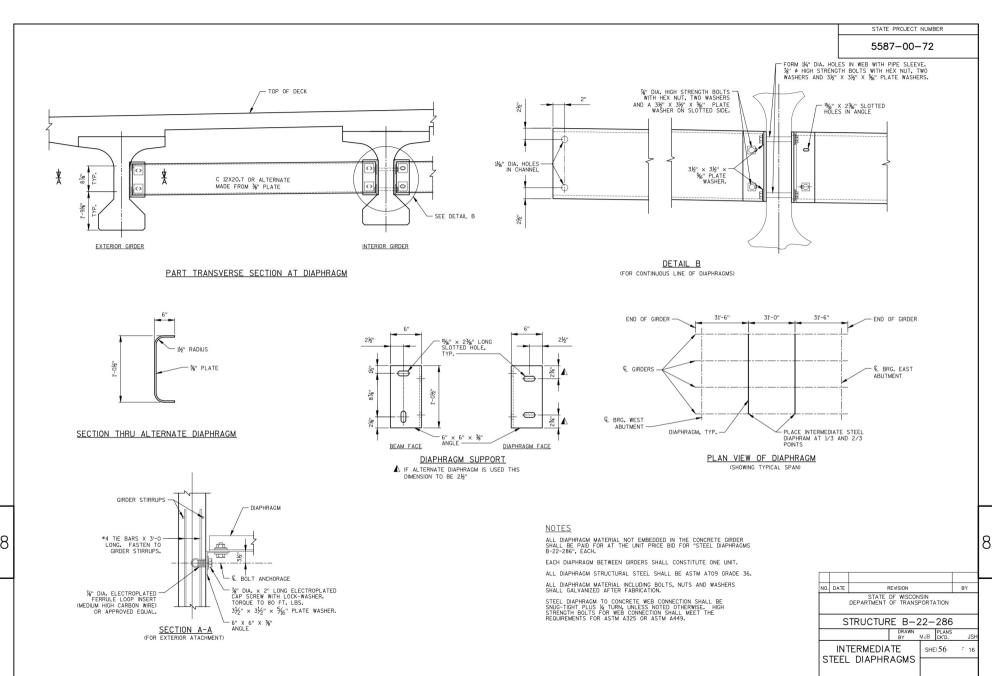
SECTION THRU ABUTMENT BODY ALL HORIZONTAL BARS NOT LABELED ARE B604 BARS.

¾" BEVEL,

2'-6" BERM-EL 854.56

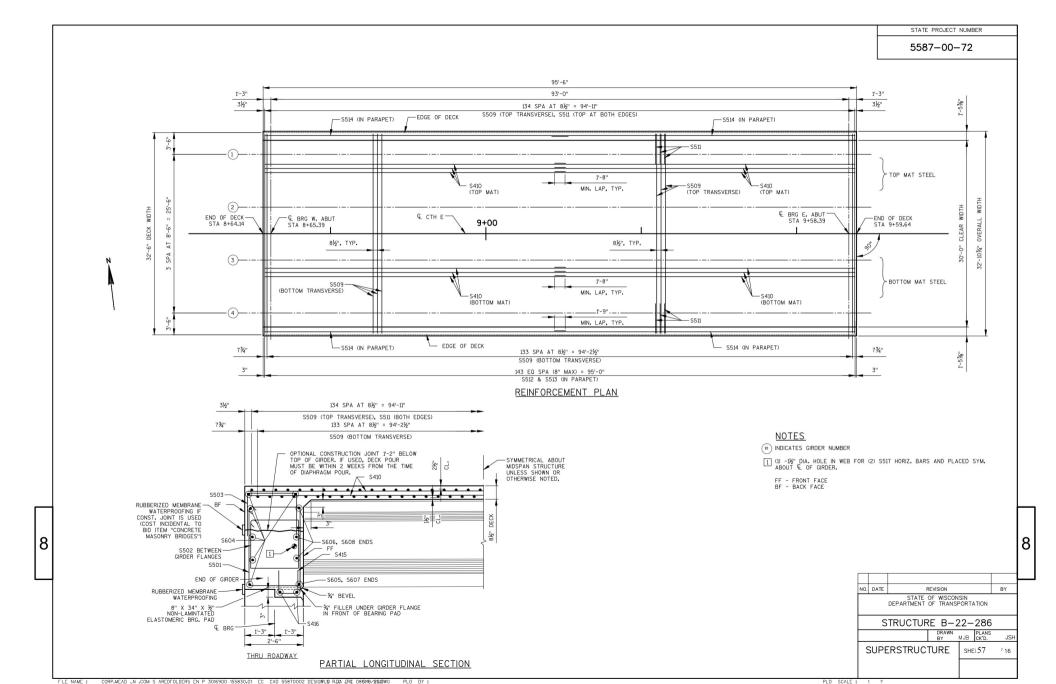
EL 852.06-

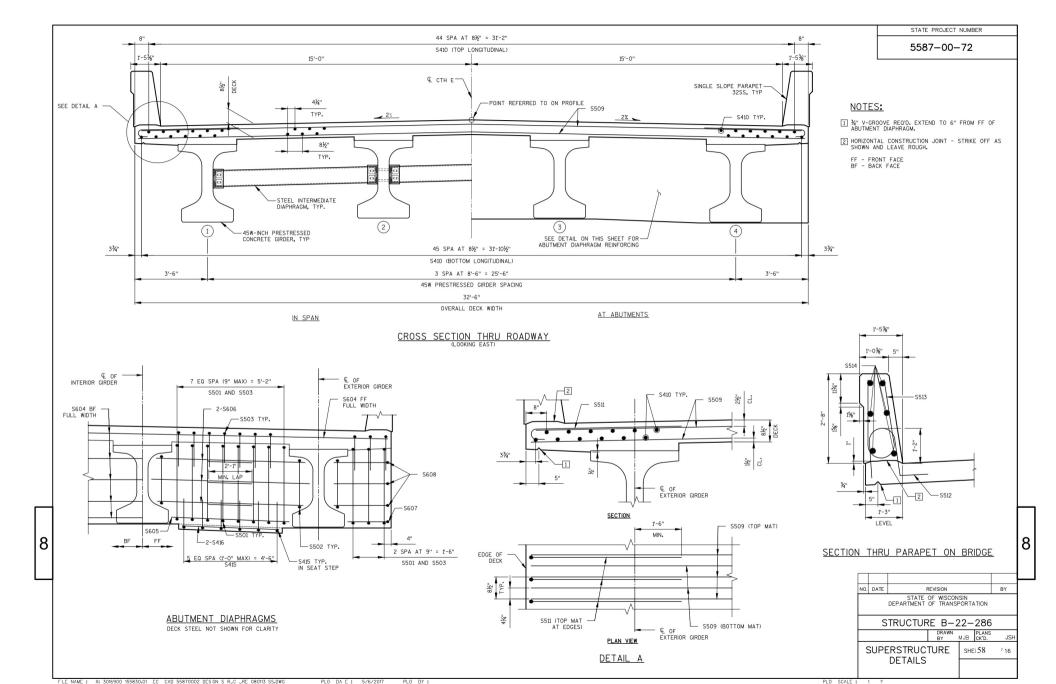




CODD MEAD. N. COM C. ADEDEGIA DED CENTRAL DESCRIPTION OF THE CAR EEGZAMAN INC. CAR E

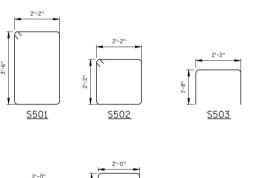
1 SCALE : 1 1

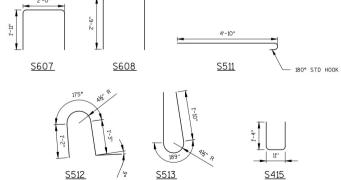




DECK ELEVATIONS

SPAN POINT	LEFT EDGE OF DECK	GIRDER 1		GIRDER 2		REFERENCE LINE		GIRDER 3		GIRDER 4		RIGHT EDGE OF DECK
	ELEVATION	TD	TG	TD	TG	STATION	ELEVATION	TD	TG	TD	TG	ELEVATION
C/L W. ABUT.	858.39	858.43	857.37	858.60	857.54	8+65.39	858.69	858.60	857.54	858.43	857.37	858.39
0.1	858.74	858.79		858.96		8+74.69	859.04	858.96		858.79		858.74
0.2	859.09	859.14		859.31		8+83.99	859.39	859.31		859.14		859.09
0.3	859.45	859.49		859.66		8+93.29	859.75	859.66		859.49		859.45
0.4	859.80	859.85		860.02		9+02.59	860.10	860.02		859.85		859.80
0.5	860.15	860.20		860.37		9+11.89	860.45	860.37		860.20		860.15
0.6	860.51	860.55		860.72		9+21.19	860.81	860.72		860.55		860.51
0.7	860.86	860.91		861.08		9+30.49	861.16	861.08		860.91		860.86
0.8	861.21	861.26		861.43		9+39.79	861.51	861.43		861.26		861.21
0.9	861.57	861.61		861.78		9+49.09	861.87	861.78		861.61		861.57
C/L E. ABUT.	861.92	861.97	860,90	862,14	861.07	9+58.39	862,22	862.14	861.07	861.97	860.90	861.92





BILL OF BARS SUPERSTRUCTURE COATED= 22990 LBS. UNCOATED= 0 LBS.

$\overline{}$	NUM	BER					
MARK	COATED	UNCOATED	LENGTH	BENT	BAR SERIES	LOCATION	
			FT - IN				
S501	60		12 - 0	Х		DIAPHRAGM - STIRRUPS	VERT
S502	16		9 - 4	Х		DIAPHRAGM - STIRRUPS	VERT
S503	60		5 - 3	Х		DIAPHRAGM - TIES	VERT
S604	12		32 - 2			DIAPHRAGM - BF	TRANS
S605	6		5 - 8			DIAPHRAGM - FF BETWEEN GIRDERS	TRANS
S606	36		4 - 11			DIAPHRAGM - FF BETWEEN GIRDERS	TRANS
S607	4		5 - 6	Х		DIAPHRAGM - AT ENDS	HORIZ
S608	12		6 - 8	х		DIAPHRAGM - AT ENDS	HORIZ
S509	269		32 - 2			SLAB - TOP & BOTTOM	TRANS
S410	182		48 - 5			SLAB - TOP & BOTTOM	LONGIT
S511	270		5 - 5	х		SLAB - TOP AT EDGES	TRANS
S512	288		4 - 5	х		PARAPET - TIES	VERT
S513	288		5 - 0	х		PARAPET - STIRRUPS	VERT
S514	24		48 - 5			PARAPET	LONGIT
S415	36		3 - 5	Х		DIAPHRAGM - SEAT STEP	VERT
S416	12		4 - 8			DIAPHRAGM - BETWEEN BEAM SEATS	HORIZ
S517	16		6 - 0			DIAPHRAGM - BETWEEN BEAM SEATS	HORIZ

BAR DIMENSIONS IN BENDING DETAILS ARE OUT TO OUT OF BARS.

THE FIRST OR FIRST TWO DIGITS OF A BAR MARK SIGNIFIES THE BAR SIZE.

NO DATE REVISION BY

STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION

STRUCTURE B-22-286

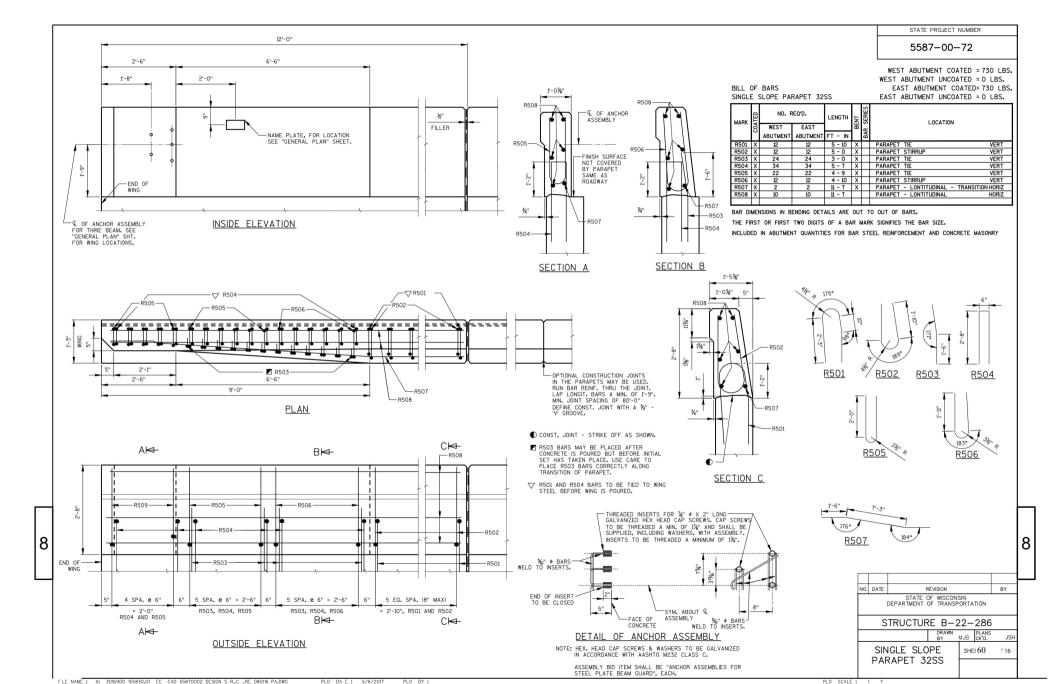
DRAWN PLANS

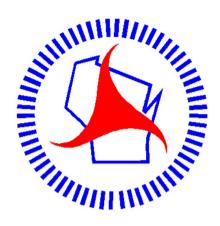
SUPERSTRUCTURE DETAILS

SHEI 59 - 16

8

8





Wisconsin Department of Transportation

Dedicated people creating transportation solutions through innovation and exceptional service.

http://www.dot.wisconsin.gov