



# Wisconsin Department of Transportation

December 8, 2016

**Division of Transportation Systems Development**

Bureau of Project Development  
 4802 Sheboygan Avenue, Rm 601  
 P O Box 7916  
 Madison, WI 53707-7916

Telephone: (608) 266-1631  
 Facsimile (FAX): (608) 266-8459

**NOTICE TO ALL CONTRACTORS:**

**Proposal #21: 1517-07-80, WISC 2016 481  
 USH 10 – USH 10/STH 441  
 County CB – Oneida Street  
 USH 10  
 I-41 Interchange Ramps  
 Winnebago County**

**Letting of December 13, 2016**

This is Addendum No. 01, which provides for the following:

**Special Provisions**

Added Special Provisions	
Article No.	Description
12.11	Paint and Painting

Deleted Special Provisions	
Article No.	Description
7.12	Concrete Barrier Temporary Precast Left in Place, Item SPV.0090.209
9.7	Removing Rumble Strips, Item SPV.0180.010

**Schedule of Items**

Revised Bid Item Quantities					
Bid Item	Item Description	Unit	Old Quantity	Revised Quantity	Proposal Total
210.1100	Backfill Structure Type A **P**	CY	551	-15	536
305.0120	Base Aggregate Dense 1 ¼-Inch	Ton	29,095	154	29,249
501.1000.S	Ice Hot Weather Concreting	LB	10,971	7,354	18,325
502.3200	Protective Surface Treatment **P**	SY	1,937	-1,674	263
502.3210	Pigmented Surface Sealer	SY	826	169	995
505.0400	Bar Steel Reinforcement HS Structures	LB	36,120	-2,720	33,400
505.0600	Bar Steel Reinforcement HS Coated Structures	LB	419,700	4,140	423,840

505.0800.S	Bar Steel Reinforcement HS Stainless Structures	LB	2110	60	2170
506.0605	Structural Steel HS	LB	530,392	806	531,198
506.3015	Welded Stud Shear Connectors 7/8x6-Inch **P**	EA	4828	160	4988
511.1200.001	Temporary Shoring B-70-407	SF	675	1,120	1795
517.1010.S.001	Concrete Staining B-70-407 **P**	SF	10,802	979	11,781
517.1050.S.001	Architectural Surface Treatment B-70-407 **P**	SF	1931	1,118	3049
550.1120	Piling Steel HP 12-Inch x 53 LB	LF	2570	115	2685
603.8000	Concrete Barrier Temporary Precast Delivered	LF	6896	-1,421	5475
603.8125	Concrete Barrier Temporary Precast Installed	LF	18,005	-6,470	24,475
604.0600	Slope Paving Select Crushed Material **P**	SY	392	322	714
652.0125	Conduit Rigid Metallic 2-Inch **P**	LF	94	47	141
652.0225	Conduit Rigid Nonmetallic Schedule 40 2-Inch **P**	LF	22,192	-524	21,668
653.0180	Pull Boxes Steel Communications 24x36-Inch	EA	2	2	4
671.0142	Conduit HDPE 4-Duct 2-Inch	LF	1390	495	1885
673.0105	Communication Vault Type 1	EA	6	1	7
SPV.0035.700	Modified High Performance Concrete (HPC) Masonry Bridges	CY	2475	-34	2441
SPV.0060.353	Lighting Control Cabinet – Freeway	EA	3	-1	2
SPV.0090.208	Maintain & Remove Concrete Barrier Temporary Precast Left in Place	LF	49,524	-23,659	25,865

Added Bid Item Quantities					
Bid Item	Item Description	Unit	Old Quantity	Revised Quantity	Proposal Total
654.0105	Concrete Bases Type 5	EA	0	1	1
671.0112	Conduit HDPE 1-Duct 2-Inch	LF	0	470	470

Deleted Bid Item Quantities					
Bid Item	Item Description	Unit	Old Quantity	Revised Quantity	Proposal Total
604.0500	Slope Paving Crushed Aggregate	SY	322	0	0
SPV.0090.209	Concrete Barrier Temporary Precast Left in Place	LF	12,760	0	0
SPV.0180.010	Removing Rumble Strips	SY	156	0	0

## Plan Sheets

Revised Plan Sheets	
Plan Sheet	Plan Sheet Title (brief description of changes to sheet)
161	ITS-USH 10 (moved some 07-76 work to 07-80)
221	Lighting- Construction Details – Control Cabinet Schematics (revised circuit diagram)
226	Lighting Plan Overview (revised 'WisDOT Systems' information)
241	Lighting Plan – USH 10/441 System Interchange (revised control cabinet callouts)
242	Lighting Plan – Wiring Schematic (revised control cabinet callouts)
413	Miscellaneous Quantities (revised 'temporary barrier' quantities)
417	Miscellaneous Quantities (removed 'removing rumble strips' quantity)
418	Miscellaneous Quantities (moved some 07-76 lighting work to 07-80)

427	Miscellaneous Quantities (moved some 07-76 ITS work to 07-80)
428	Miscellaneous Quantities (moved some 07-76 ITS work to 07-80)
642	B-70-407, General Plan and Elevation (Updated temporary shoring and slope paving callouts)
643	B-70-407, Cross-Section (Updated typical section)
644	B-70-407, General Notes and Quantities (Updated quantities)
646	B-70-407, South Abutment Details (1 of 5) (Updated pile note and dimensions)
647	B-70-407, South Abutment Details (2 of 5) (Updated notes and dimensions)
648	B-70-407, South Abutment Details (3 of 5) (Updated callouts and rebar)
649	B-70-407, South Abutment Details (4 of 5) (Updated dimensions and rebar)
650	B-70-407, South Abutment Details (5 of 5) (Updated rebar)
651	B-70-407, South Abutment Approach Slab (Updated notes and callouts)
652	B-70-407, North Abutment Details (1 of 4) (Added pile note)
653	B-70-407, North Abutment Details (2 of 4) (Updated callouts and rebar)
654	B-70-407, North Abutment Details (3 of 4) (Updated rebar)
655	B-70-407, North Abutment Details (4 of 4) (Updated dimensions and notes)
656	B-70-407, North Abutment Approach Slab (Update callouts and rebar)
657	B-70-407, Pier 1 Details 1 (Updated dimensions)
658	B-70-407, Pier 1 Details 2 (Updated rebar)
661	B-70-407, Pier 3 Details 1 (Updated callouts)
662	B-70-407, Pier 3 Details 2 (Updated rebar)
668	B-70-407, Girder Details (4 of 4) (Added notes)
672	B-70-407, Superstructure Plan 1 (Added reference line)
675	B-70-407, Superstructure Details (Updated rebar)
677	B-70-407, Single Slope Parapet 32SS Modified (Updated rebar and notes)
678	B-70-407, Single Slope Parapet 42SS Modified (Updated rebar and notes)
679	B-70-407, Single Slope Parapet Details (Updated dimensions)
680	B-70-407, 42SS Parapet Electrical (Added notes)
681	B-70-407, Light Standard (Updated light locations)
682	B-70-407, Strip Seal Expansion Joint Details (Added temp table)
683	B-70-407, Cover Plated For Parapets (Added plan view)
685	B-70-407, Aesthetic Details (Changed girder color to hopsack)
686	B-70-407, Downspout Details (Updated callouts and notes)
687	B-70-407, Slope Paving (Crushed Aggregate) (Updated sheet title and depth)
689	B-70-409, General Plan (Updated slope paving callout)
690	B-70-409, Quantities & General Notes (Updated quantities and general notes)
693	B-70-409, West Abutment (Updated slope paving callout)
695	B-70-409, East Abutment (Updated slope paving callout)
733	B-70-409, Slope Paving @ West Abutment (Updated slope paving depth and callout)
734	B-70-409, Slope Paving @ East Abutment (Updated slope paving depth and callout)

The responsibility for notifying potential subcontractors and suppliers of these changes remains with the prime contractor.

Sincerely,

*Mike Coleman*

Proposal Development Specialist  
Proposal Management Section

**ADDENDUM NO. 01**

**1517-07-80**

**December 8, 2016**

**Special Provisions**

**7.12 DELETED**

**9.7 DELETED**

**Add the following article:**

**12.11 Paint and Painting**

*Replace standard spec 517.3.1.7.3 with the following:*

- (1) Mask the faying surfaces of bolted field splices and the top of the top flanges where welding the stud shear connectors during coat application. On all other areas including the outside surfaces of splice plates, ensure that the dry film thickness conforms to the following:
1. For the white intermediate coat, 3.5 mils to 8 mils.
  2. For the protective coat, sufficient thickness to provide a uniform color and appearance but not less than 2 mil or more than 5 mils.

**Schedule of Items**

Attached, dated December 8, 2016, are the revised Schedule of Items Pages. All pages of the Schedule of Items are being replaced.

**Plan Sheets**

The following 8½ x 11-inch sheets are attached and made part of the plans for this proposal:

Revised: 161, 221, 226, 241, 242, 413, 417-418, 427-428, 642-644, 646-658, 661-662, 668, 672, 675, 677-683, 685-687, 689-690, 693, 695, and 733-734

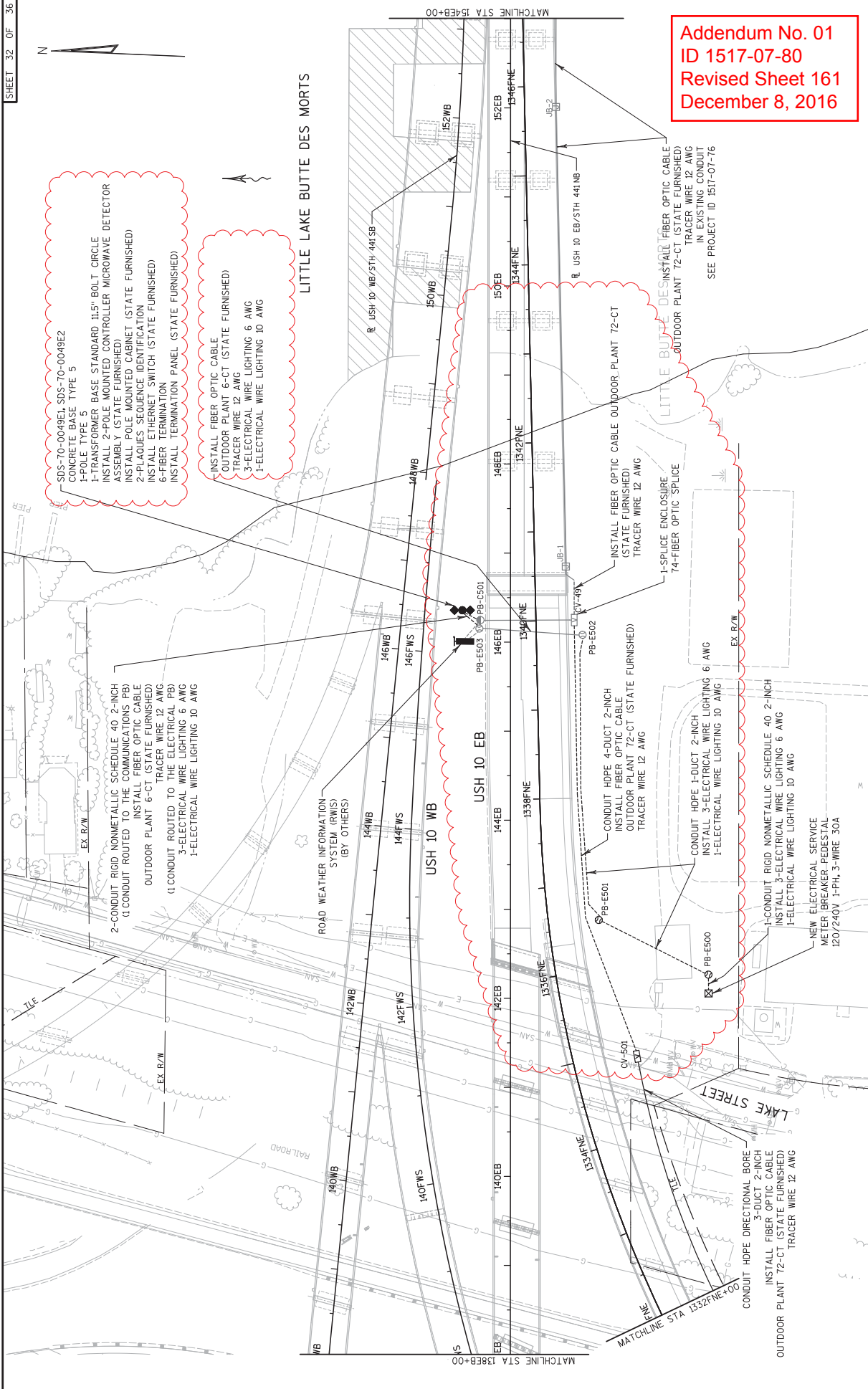
END OF ADDENDUM



SDS-70-0049E1, SDS-70-0049E2  
 CONCRETE BASE TYPE 5  
 1-POLE TYPE 5  
 1-TRANSFORMER BASE STANDARD 11.5" BOLT CIRCLE ASSEMBLY (STATE FURNISHED)  
 1-INSTALL POLE MOUNTED CONTROLLER MICROWAVE DETECTOR (STATE FURNISHED)  
 2-PLAQUES SEQUENCE IDENTIFICATION (STATE FURNISHED)  
 6-FIBER TERMINATION SWITCH (STATE FURNISHED)  
 1-INSTALL TERMINATION PANEL (STATE FURNISHED)

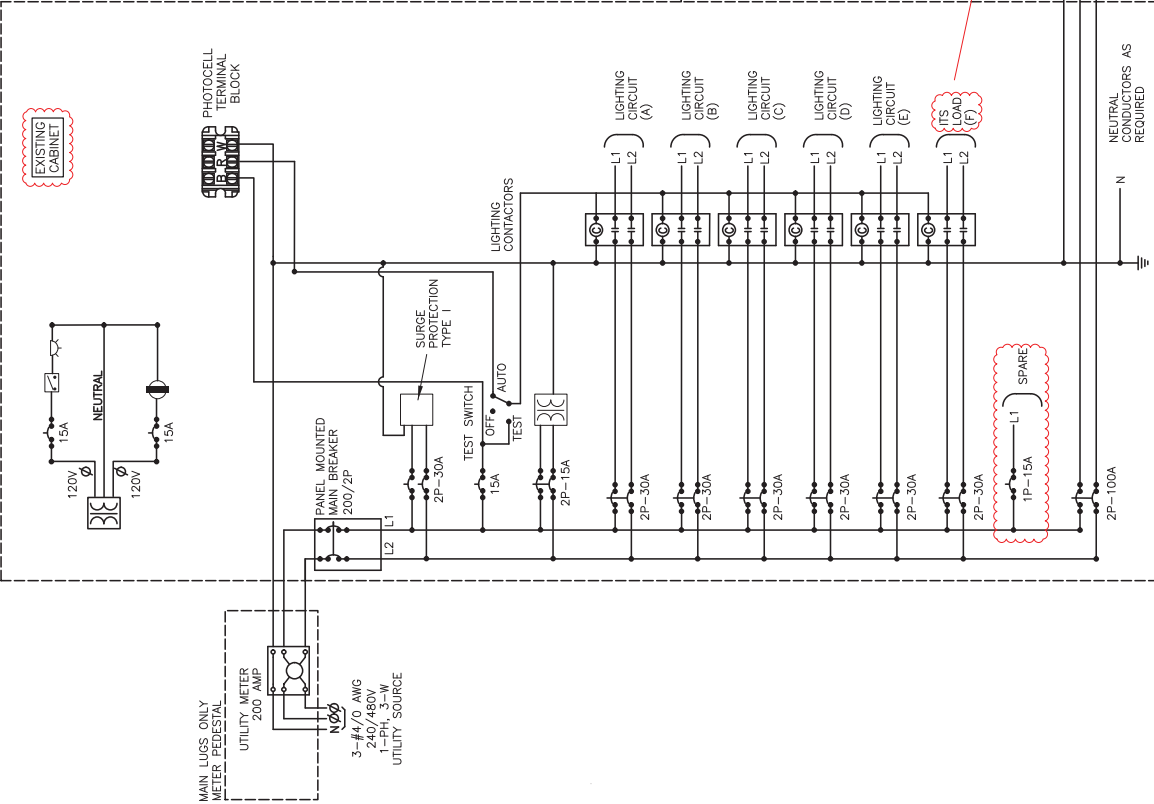
INSTALL FIBER OPTIC CABLE  
 OUTDOOR PLANT 6-CT (STATE FURNISHED)  
 TRACER WIRE 12 AWG  
 3-ELECTRICAL WIRE LIGHTING 6 AWG  
 1-ELECTRICAL WIRE LIGHTING 10 AWG

LITTLE LAKE BUTTE DES MORTS

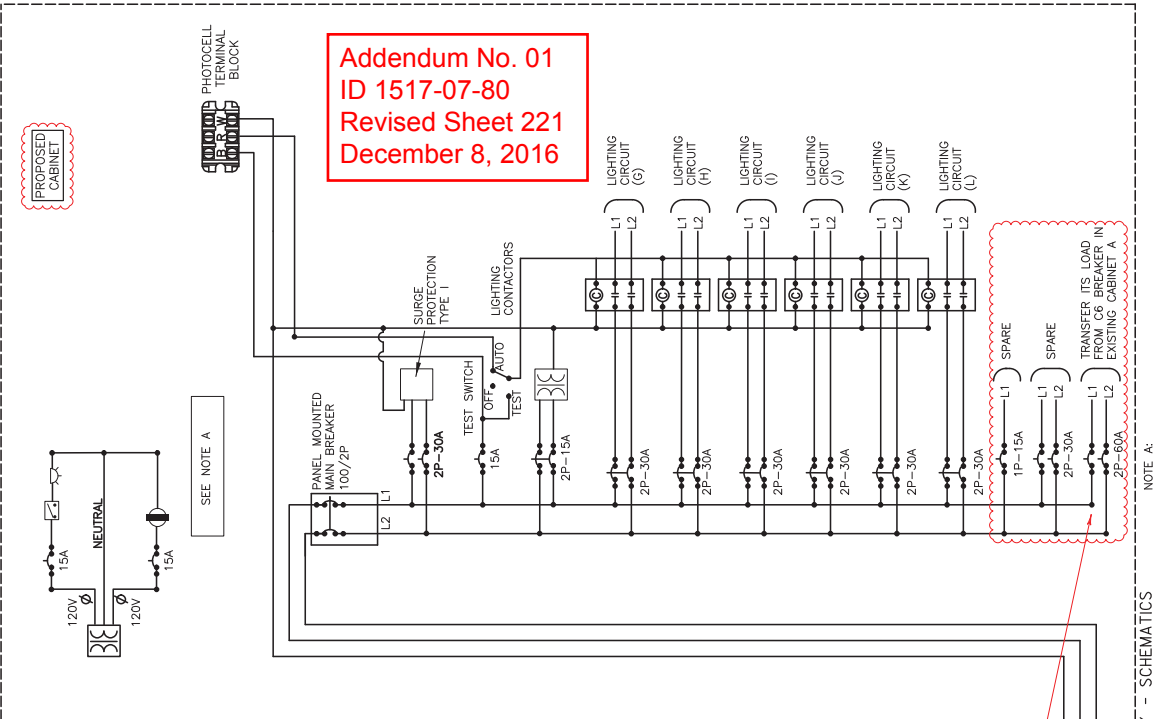


Addendum No. 01  
 ID 1517-07-80  
 Revised Sheet 161  
 December 8, 2016

PROJECT NO: 1517-07-80	COUNTY: WINNEBAGO	ITS - USH 10	SHEET 161
FILE NAME : \\S15102K306\projects\Transpor\T\US 10 MIS 441\CADD\Sheets\15170780\021409-fm.dgn	HWY: USH 10	PLOT BY : Jess.Loc.Lonelle	WSDOT/CADD SHEET 42
		PLOT DATE : 11/10/2016	PLOT SCALE : 100.0000 sf / in.



CABINET LOCATION	CABINET A	CABINET B
COPPERHEAD DR CABINET (CB-100)	EXISTING	NEW
JACOBSEN RD CABINET (CB-200)	EXISTING	NO CABINET
W BUTTE DES MORIS RD CABINET (CB-300)	EXISTING	NEW
TAYCO ST CABINET (CB-400)	EXISTING	EXISTING



Addendum No. 01  
ID 1517-07-80  
Revised Sheet 221  
December 8, 2016

NOTE A:  
PROVIDE LABEL ABOVE 100 AMP MAIN BREAKER THAT SAYS:  
THIS PANEL IS SUB-FED FROM NEIGHBORING CABINET

NO SCALE  
SHEET 2 OF 2  
LIGHTING CONTROL CABINET - FREEWAY - SCHEMATICS

WISDOT SYSTEMS

- L70-2007 / USH 41 & USH 10 (COPPERHEAD DR./ TOWN OF MENASHA / WINNEBAGO COUNTY
- CB 300 / SYSTEM INTERCHANGE (EAST) / ROLAND KAMPO BRIDGE
- 240/480 VOLT / SINGLE PHASE / 200 AMP SERVICE
- MAIN LUGS ONLY METER PEDESTAL (EXISTING)
- CIRCUIT DESCRIPTIONS:

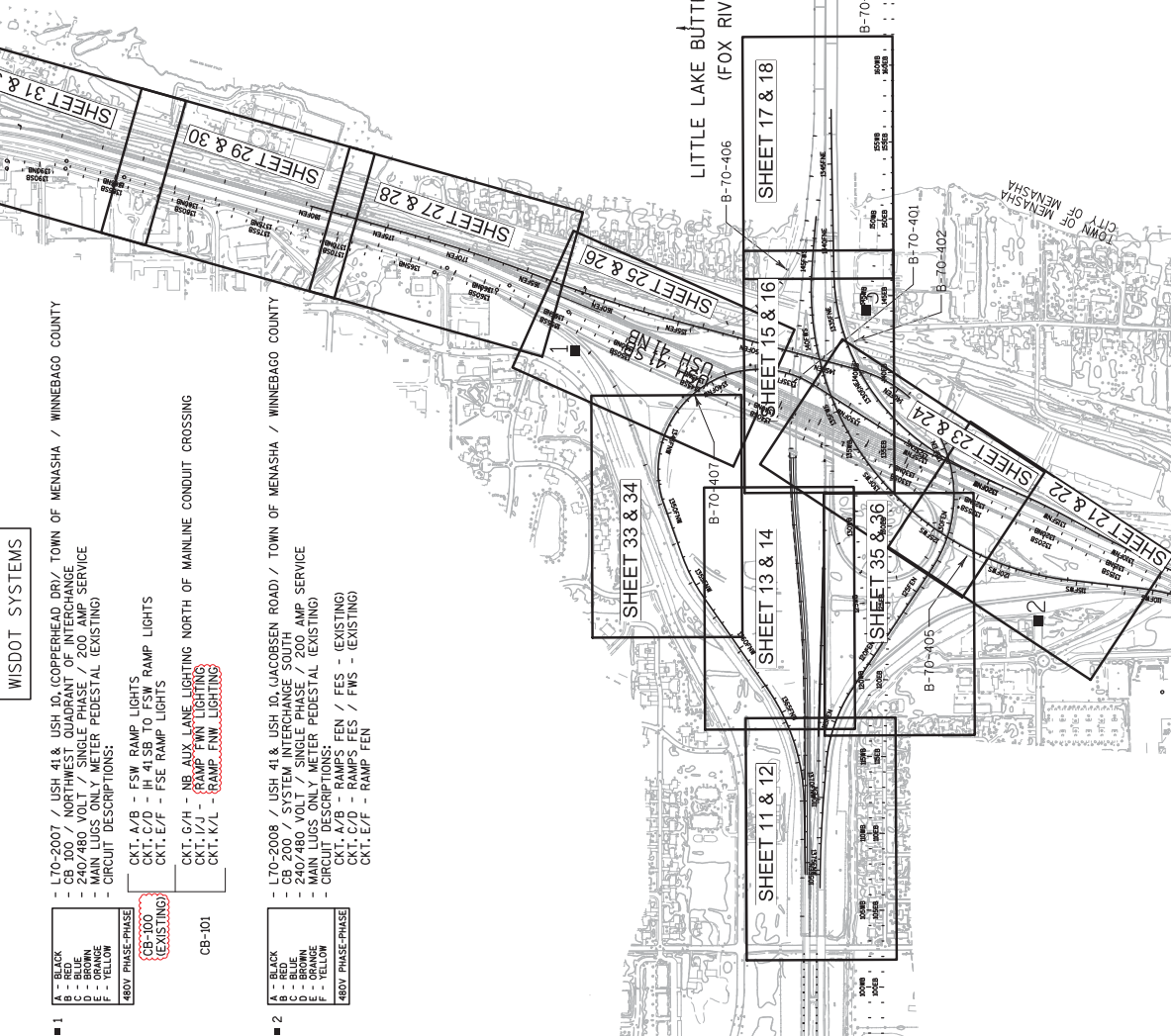
A - BLACK
B - RED
C - BLUE
D - BROWN
E - ORANGE
F - YELLOW

480V PHASE-PHASE

CB-300 (EXISTING)

CB-101

- CKT. A/B - FSW RAMP LIGHTS
- CKT. C/D - FSW RAMP LIGHTS
- CKT. E/F - FSE RAMP LIGHTS
- CKT. G/H - NB AUX LANE LIGHTING NORTH OF MAINLINE CONDUIT CROSSING
- CKT. I/J - RAMP FWN LIGHTING
- CKT. K/L - RAMP FWN LIGHTING



WISDOT SYSTEMS

- L70-2009 / USH 41 & USH 10 (WEST BUTTE DES MORTS RD) / CITY OF MENASHA / WINNEBAGO COUNTY
- CB 300 / SYSTEM INTERCHANGE (EAST) / ROLAND KAMPO BRIDGE
- 240/480 VOLT / SINGLE PHASE / 200 AMP SERVICE
- MAIN LUGS ONLY METER PEDESTAL (EXISTING)
- CIRCUIT DESCRIPTIONS:

A - BLACK
B - RED
C - BLUE
D - BROWN
E - ORANGE
F - YELLOW

480V PHASE-PHASE

CB-300 (EXISTING)

CB-301

- CKT. A/B - RAMP FWN / FNE / B-70-402 BRIDGE - (EXISTING)
- CKT. C - RAMP FNE & BRIDGE B-70-403 SOUTH PARAPET - (EXISTING)
- CKT. D - TWO LIGHTS ON NORTH SIDE OF EB 44/10 BETWEEN B-70-400 AND B-70-403
- CKT. E/F - MAINLINE 44/10 EB FROM EAST OF COLD SPRING RD TO END OF B-70-400
- CKT. G/H - RAMP FSW
- CKT. I/J - MAINLINE 44/10 WB LIGHTS FROM B-70-61 TO EAST OF COLD SPRING RD
- CKT. K/L - SPARE (FUTURE)

- L70-2008 / USH 41 & USH 10 (JACOBSEN ROAD) / TOWN OF MENASHA / WINNEBAGO COUNTY
- CB 200 / SYSTEM INTERCHANGE SOUTH
- 240/480 VOLT / SINGLE PHASE / 200 AMP SERVICE
- MAIN LUGS ONLY METER PEDESTAL (EXISTING)
- CIRCUIT DESCRIPTIONS:

A - BLACK
B - RED
C - BLUE
D - BROWN
E - ORANGE
F - YELLOW

480V PHASE-PHASE

CB-400 (EXISTING)

CB-401 (EXISTING)

- CKT. A/B - RAMP FEN / FES - (EXISTING)
- CKT. C/D - RAMP FEN / FES - (EXISTING)
- CKT. E/F - RAMP FEN
- CKT. G/H - RAMP FEN

- L70-2010 / USH 10 Little Lake Butte Des Morts Bridge / CITY OF MENASHA / WINNEBAGO COUNTY
- CB-400 & CB-401 / Roland Kambo Bridge @ Toyco St
- 240/480 VOLT / SINGLE PHASE / 200 AMP SERVICE
- MAIN LUGS ONLY METER PEDESTAL
- CIRCUIT DESCRIPTIONS:

A - BLACK
B - RED
C - BLUE
D - BROWN
E - ORANGE
F - YELLOW

480V PHASE-PHASE

CB-400 (EXISTING)

CB-401 (EXISTING)

- CKT. A/B - B-70-403 BRIDGE MEDIAN/PARAPET LIGHTS (EXISTING)
- CKT. C/D - SPARE (FUTURE)
- CKT. E/F - SPARE (FUTURE)
- CKT. G/H - RAMP FEN / FES - (EXISTING)
- CKT. I/J - RAMP FEN / FES - (EXISTING)
- CKT. K/L - RAMP FEN / FES - (EXISTING)

Addendum No. 01  
 ID 1517-07-80  
 Revised Sheet 226  
 December 8, 2016

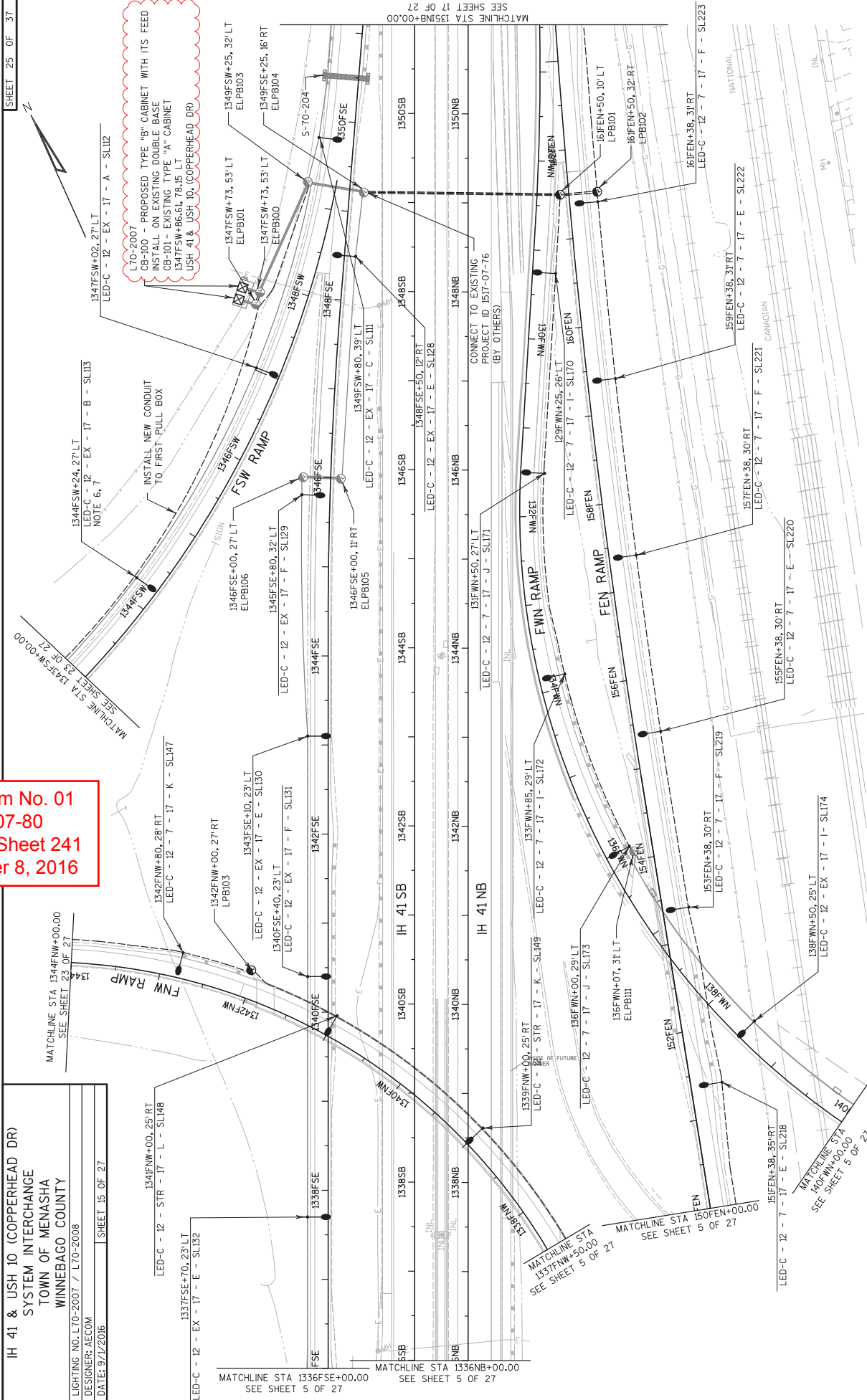


IH 41 & USH 10 (COPPERHEAD DR)  
 SYSTEM INTERCHANGE  
 TOWN OF MENASHA  
 WINNEBAGO COUNTY

LIGHTING NO. L70-2007 / L70-2008  
 DESIGNER: AECOM  
 DATE: 9/1/2016

SHEET 15 OF 27

Addendum No. 01  
 ID 1517-07-80  
 Revised Sheet 241  
 December 8, 2016



SHEET 25 OF 37

PROJECT NO: 1517-07-80  
 COUNTY: WINNEBAGO  
 HWY: USH 10

PROJECT NO: 1517-07-80  
 COUNTY: WINNEBAGO  
 LIGHTING PLAN - USH 10/STH 441 SYSTEM INTERCHANGE  
 SHEET 241

FILE NAME: \\S1102K306\projects\TranSPORT\IH 41 NB\441\CADD\sheets\15170780\023525\_1d.dgn  
 PLOT DATE: 11/10/2016  
 PLOT BY: Jess.Lico.Licoeille  
 PLOT NAME: LIGHTING PLAN - USH 10/STH 441 SYSTEM INTERCHANGE  
 PLOT SCALE: 1:100,000 sf / in.  
 WSDOT/CADD SHEET 42



**IH 41 & USH 10 (COPPERHEAD DR)  
SYSTEM INTERCHANGE  
TOWN OF MENASHA  
WINNEBAGO COUNTY**

LIGHTING NO. L70-2007 / L70-2008 / L70-2009  
DESIGNER: AECOM  
DATE: 9/1/2016

SHEET 16 OF 27

DE =

CB-100	1	EXISTING	
E	2	#6	1 8
F	2	#6	1 8

480V

HL =

CB-101	1	EXISTING	
K	2	#6	1 8
L	2	#6	1 8

480V

HE =

CB-101	1	EXISTING	
K	2	#6	1 8
L	2	#6	1 8

480V

BE =

CB-100	1	EXISTING	
A	2	#6	1 8
B	2	#6	1 8

480V

CE =

CB-100	1	EXISTING	
C	2	#6	1 8
D	2	#6	1 8

480V

FE =

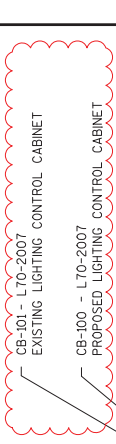
CB-101	1	EXISTING	
F	2	#6	1 8
G	2	#6	1 8

480V

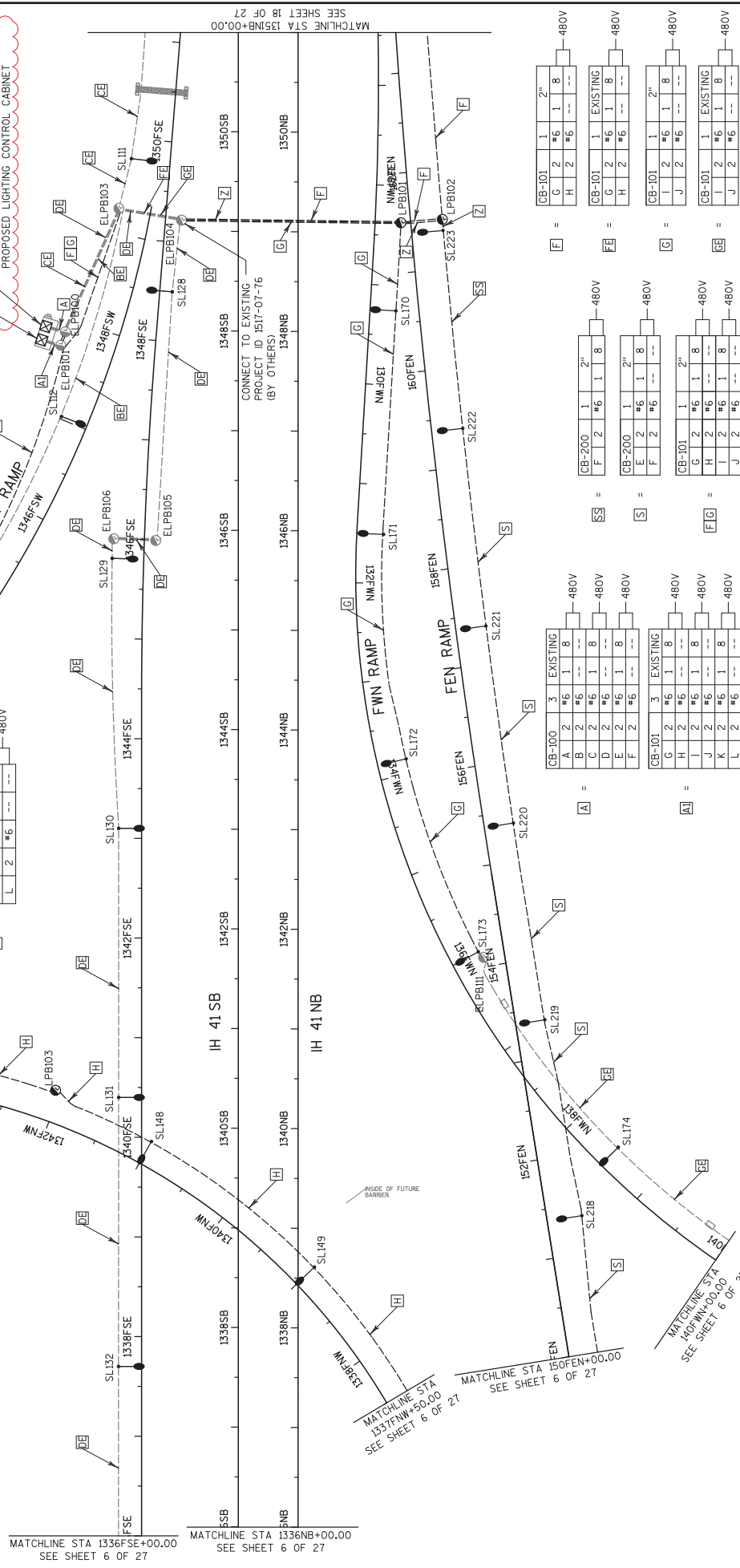
GE =

CB-101	1	EXISTING	
G	2	#6	1 8
H	2	#6	1 8

480V



**Addendum No. 01  
ID 1517-07-80  
Revised Sheet 242  
December 8, 2016**



FA =

CB-101	1	EXISTING	
F	2	#6	1 8
G	2	#6	1 8

480V

FB =

CB-101	1	EXISTING	
F	2	#6	1 8
G	2	#6	1 8

480V

FC =

CB-101	1	EXISTING	
F	2	#6	1 8
G	2	#6	1 8

480V

FD =

CB-101	1	EXISTING	
F	2	#6	1 8
G	2	#6	1 8

480V

FE =

CB-101	1	EXISTING	
F	2	#6	1 8
G	2	#6	1 8

480V

FF =

CB-101	1	EXISTING	
F	2	#6	1 8
G	2	#6	1 8

480V

FG =

CB-101	1	EXISTING	
F	2	#6	1 8
G	2	#6	1 8

480V

GH =

CB-101	1	EXISTING	
G	2	#6	1 8
H	2	#6	1 8

480V

**TRAFFIC CONTROL**

STAGE	DURATION DAYS	603.8125 CONCRETE BARRIER DELIVERED	603.8125 CONCRETE BARRIER TEMPORARY PRECAST INSTALLED	SPV.0090.208 MAINTAIN & REMOVE CONCRETE BARRIER TEMPORARY PRECAST LEFT IN PLACE	SPV.0060.205 MAINTAIN & REMOVE CRASH CUSHION TEMPORARY LEFT IN PLACE	643.0300 TRAFFIC CONTROL DRUMS	SPV.0045.200 MAINTAIN & REMOVE TRAFFIC DRUMS LEFT IN PLACE	643.0420 TRAFFIC CONTROL BARRICADES TYPE III	SPV.0045.201 MAINTAIN & REMOVE TRAFFIC CONTROL BARRICADES TYPE III	643.0705 TRAFFIC CONTROL WARNING LIGHTS TYPE A	SPV.0045.202 MAINTAIN & REMOVE TRAFFIC CONTROL WARNING LIGHTS TYPE A
		LF	LF	LF	EACH	EACH	EACH	EACH	EACH	EACH	EACH
STAGE 1	304	--	--	17,590	12	--	615	--	22	--	35
STAGE 2A	60	--	1,945	--	2	41	2,460	5	300	8	480
STAGE 2B	30	--	530	--	--	210	6,300	29	870	41	1,230
STAGE 3	60	--	--	--	--	144	8,640	16	960	22	1,320
STAGE A	365	1,075	1,075	8,275	5	--	20,440	--	--	--	--
STAGE B	56	4,400	10,850	--	2	85	4,760	--	--	--	--
STAGE C	42	--	6,850	--	2	119	4,998	3	126	6	252
FSE SHOULDER	14	--	1,275	--	--	8	112	--	--	--	--
STAGE D	15	--	1,950	--	--	77	1,155	2	30	4	60
UNDISTRIBUTED							2,843		229		334
<b>PROJECT 1517-07-80 TOTAL</b>		<b>5,475</b>	<b>24,475</b>	<b>0</b>	<b>23</b>		<b>31,268</b>		<b>2,515</b>		<b>3,676</b>

STAGE	DURATION DAYS	643.0715 TRAFFIC CONTROL WARNING LIGHTS TYPE C	SPV.0045.203 MAINTAIN & REMOVE TRAFFIC CONTROL WARNING LIGHTS TYPE C	643.0800 TRAFFIC CONTROL ARROW BOARDS	643.0900 TRAFFIC CONTROL SIGNS	SPV.0045.204 MAINTAIN & REMOVE TRAFFIC CONTROL SIGNS LEFT IN PLACE	643.1000 TRAFFIC CONTROL SIGNS FIXED MESSAGE	643.1050 TRAFFIC CONTROL SIGNS POMS	643.1051 TRAFFIC CONTROL SIGNS POMS WITH CELLULAR COMMUNICATIONS	643.1800 TRAFFIC CONTROL SIGNS POMS
		EACH	EACH	EACH	EACH	EACH	SF	EACH	EACH	EACH
STAGE 1	304	--	75	--	--	49	14,896	--	--	--
STAGE 2A	60	31	1,860	--	2	4	240	2	120	--
STAGE 2B	30	41	1,230	--	16	480	--	--	--	--
STAGE 3	60	87	5,220	--	9	540	--	--	--	--
STAGE A	365	--	20	--	--	56	20,440	2	730	--
STAGE B	56	13	728	3	168	43	2,408	98	--	--
STAGE C	42	35	1,470	2	84	43	1,806	336	--	--
FSE SHOULDER	14	--	--	--	--	--	--	--	--	--
STAGE D	15	8	120	2	30	43	645	--	--	--
UNDISTRIBUTED			1,063	--	28	249	--	--	4	1,800
<b>PROJECT 1517-07-80 TOTAL</b>			<b>11,691</b>	<b>310</b>	<b>2,742</b>	<b>40,435</b>	<b>434</b>	<b>850</b>	<b>1,800</b>	<b>1,800</b>

Addendum No. 01  
ID 1517-07-80  
Revised Sheet 413  
December 8, 2016

ALL ITEMS ARE CATEGORY 1000 UNLESS OTHERWISE SPECIFIED.

**REMOVING PAVEMENT MARKING WATER BLASTING**

646.0690.S  
REMOVING PAVEMENT  
MARKING WATER  
BLASTING

LOCATION	STATION	STATION	LF
WNE	1257WNE+00	- 1265WNE+00	1,576
IH 41 NB	1258NB+80	- 1262NB+75	1,242
IH 41 NB	1268NB+00	- 1306NB+00	3,800
FWS	103FWS+58	- 108FWS+65	1,268
IH 41 SB	1286SB+25	- 1295SB+00	865
IH 41 SB	1295SB+00	- 1300SB+73	145
IH 41 SB	1300SB+73	- 1306SB+00	504
PROJECT 1517-07-80 TOTAL			9,400

**TRUCK MOUNTED ATTENUATOR**

SPV.0075.206  
TRUCK MOUNTED  
ATTENUATOR  
WITH OPERATOR

SPV.0075.207  
TRUCK MOUNTED  
ATTENUATOR  
WITHOUT OPERATOR

LOCATION	HRS	HRS
UNDISTRIBUTED	50	50
PROJECT 1517-07-80 TOTAL		

**STREET SWEEPING**

SPV.0075.001  
STREET  
SWEEPING

STATION	HRS
UNDISTRIBUTED	24
PROJECT 1517-07-80 TOTAL	

**GEOTECHNICAL INSTRUMENTATION**

SPV.0105.014  
GEOTECHNICAL  
INSTRUMENTATION

LOCATION	LS
UNDISTRIBUTED	1
PROJECT 1517-07-80 TOTAL	

**SURVEY PROJECT**

SPV.0105.001  
SURVEY  
PROJECT ID  
1517-07-80

LOCATION	LS
PROJECT 1517-07-80	1
PROJECT 1517-07-80 TOTAL	

**REMOVING RUMBLE STRIPS**  
SPV.0160.040  
REMOVING  
RUMBLE STRIPS

STATION	STATION	LOCATION	SY
-4341NB+50	- 4339NB+80	USH 41 NB	456
PROJECT 1517-07-80 TOTAL			456

Addendum No. 01  
ID 1517-07-80  
Revised Sheet 417  
December 8, 2016

ALL ITEMS ARE CATEGORY 1000 UNLESS OTHERWISE SPECIFIED.

Addendum No. 01  
ID 1517-07-80  
Revised Sheet 418  
December 8, 2016

**LIGHTING CONTROL CABINETS**

WIS 441 Lighting - Contract 1517-07-80				SPV.0060.353
SYSTEM	DESCRIPTION	CATEGORY	STATION	OFFSET
				LIGHTING CONTROL CABINET - FREEMWAY EACH
1100				
L70-2007	COPPERHEAD DR	1347FSW+8661	781.5	LT
L70-2008	JACOBSEN RD	STA 131+20	162.00	RT
L70-2009	W BUITE DES MORIS RD	1334FNE+80.95	174.00	RT
L70-2010	TAYCO ST	184EB+03.86	172.00	RT
<b>PROJECT TOTAL</b>				<b>2</b>

**PULL BOXES**

WIS 441 Lighting - Contract 1517-07-80				SPV.0060.352
CATEGORY	DESCRIPTION	STATION	OFFSET	PULL BOX NON-CONDUCTIVE 24X42-INCH EACH
1100				
	LPB001	STA 1324+40	30.00	RT
	LPB002	STA 1335+60	30.00	LT
	LPB101	STA 161+50	10.00	LT
	LPB102	STA 161+50	32.00	RT
	LPB103	STA 1342+00	27.00	RT
	LPB104	STA 1337+33	28.00	RT
	LPB201	STA 131+11	31.00	RT
	LPB202	STA 137+45	30.00	RT
	LPB301	STA 131+92	22.00	LT
<b>PROJECT TOTAL</b>				<b>9</b>

ALL ITEMS ARE CATEGORY 1000 UNLESS OTHERWISE SPECIFIED.

ITS CCTV ITEMS

STATION	ITEM ID	DESCRIPTION	QTY	UNIT	654.0105	657.0322	657.0255	673.0225.S	675.0300	678.0400	SPV.0060.401	670.0100	670.0200	678.0500
INTERCHANGE	STATION	ITEM ID	DESCRIPTION	QTY	UNIT	CONCRETE BASES TYPE 5	TRANSFORMER BASES BREAKAWAY 11 1/2-INCH ALUMINUM BOLT CIRCLE	INSTALL POLE MOUNTED CABINET	INSTALL MICROWAVE CONTROLLER DIRECTOR ASSEMBLY	REMOVE RADIO LINK	INSTALL FIBER OPTIC TERMINATION	INSTALL SYSTEM INTEGRATOR	ITS DOCUMENTATION	COMMUNICATIONS SYSTEM TESTING
INTERCHANGE	STATION	ITEM ID	DESCRIPTION	QTY	UNIT	EACH	EACH	EACH	EACH	EACH	EACH	EACH	EACH	LUMP SUM
1256+50SB	RT	CCTV-70-0091	1	-	-	-	-	-	-	-	-	-	-	-
1328+00SB	LT	HUB-70-0025	1	-	-	-	-	-	-	-	-	-	-	-
1325+10FNE	RT	CCTV-70-0092	3	-	-	-	-	-	-	-	-	-	-	-
1348+70FSW	LT	SDS-70-0049SE	1	-	-	-	-	-	-	-	-	-	-	-
146+50EB	LT	SDS-70-0049NW	1	-	-	-	-	-	-	-	-	-	-	-
187+15WB	LT	SDS-70-0049E1/E2	2	-	-	-	-	-	-	-	-	-	-	-
187+50EB	RT	SDS-70-0032SW	1	-	-	-	-	-	-	-	-	-	-	-
192+40EB	RT	SDS-70-0032SE	1	-	-	-	-	-	-	-	-	-	-	-
202+00EB	RT	CCTV-70-0085	0	-	-	-	-	-	-	-	-	-	-	-
202+60WB	LT	SDS-70-0032NE	1	-	-	-	-	-	-	-	-	-	-	-
		SDS-70-0032NW	1	-	-	-	-	-	-	-	-	-	-	-
PROJECT TOTALS				7	1	8	2	1	2	5	11	1	1	1

ITS PULL BOX, COMMUNICATION VAULT & MANHOLE ITEMS

STATION	ITEM ID	DESCRIPTION	QTY	UNIT	653.0180	656.0200	656.0500	673.0105	672.0100	673.0200.S	
INTERCHANGE	STATION	ITEM ID	DESCRIPTION	QTY	UNIT	PULL BOXES STEEL COMMUNICATIONS 24X36-INCH	ELECTRICAL SERVICE METER BREAKER PEDESTAL (LOCATION)	ELECTRICAL SERVICE BREAKER DISCONNECT BOX (LOCATION)	COMMUNICATION VAULT TYPE 1	BASE ITS CABINET	INSTALL ITS FIELD CABINET
INTERCHANGE	STATION	ITEM ID	DESCRIPTION	QTY	UNIT	EACH	LS	LS	EACH	EACH	EACH
1309+60SB	LT	CV-30	1	-	-	-	-	-	-	-	-
1315+20SB	LT	CV-31	1	-	-	-	-	-	-	-	-
1320+85SB	LT	CV-32	1	-	-	-	-	-	-	-	-
1325+00SB	LT	CV-33	1	-	-	-	-	-	-	-	-
1327+90SB	LT	CV-34/PB-32/PB-E500	1	-	-	-	-	-	-	-	-
1328+00SB	LT	HUB-70-0025	1	-	-	-	-	-	-	-	-
1328+90FNE	RT	CV-47	1	-	-	-	-	-	-	-	-
1334FNE+90	RT	CV-501	1	-	-	-	-	-	-	-	-
1335+40FNE	RT	ELECTRICAL SERVICE	1	-	-	-	-	-	-	-	-
1335FNE+70	RT	PB-E500	1	-	-	-	-	-	-	-	-
1336FNE+55	RT	PB-E501	1	-	-	-	-	-	-	-	-
185+70EB	RT	CCTV-70-0085 (INTERIM)	1	-	-	-	-	-	-	-	-
SUBTOTAL				1	3	1	1	1	7	1	1
TOTALS				4							

Addendum No. 01  
 ID 1517-07-80  
 Revised Sheet 427  
 December 8, 2016

ALL ITEMS ARE CATEGORY 1000 UNLESS OTHERWISE SPECIFIED.

ITS CONDUIT ITEMS

3

671.0112

671.0232

671.0242

652.0225

671.0142

SPV.0090.402

3

3

INTERCHANGE	FROM	TO	LINEAR DISTANCE	NO. OF CONDUIT	LF	CONDUIT RIGID NONMETALLIC SCHEDULE 40 2-INCH	CONDUIT HDPE DIRECTIONAL BORE 4-DUCT 2-INCH	CONDUIT HDPE DIRECTIONAL BORE 3-DUCT 2-INCH	CONDUIT HDPE 4-DUCT 2-INCH	CONDUIT HDPE 6-DUCT 2-INCH
SYSTEM INTERCHANGE	CV-30	CV-31	565	1	-	-	-	-	565	-
	CV-31	CV-32	550	1	-	-	-	-	550	-
	CV-32	CV-33	410	1	-	410	-	-	-	-
	CV-33	CV-34/PB-32/PB-E500	275	1	-	-	-	-	275	-
	CV-34/PB-32/PB-E500	HUB-70-0025	10	6	60	-	-	-	-	-
	CV-34/PB-32/PB-E500	CV-38/PB-38/PB-E6	435	1	-	-	-	-	-	435
	CV-34/PB-32/PB-E500	CV-47/PB-53	430	1	-	430	-	-	-	-
	CV-47/PB-53	CV-501	575	1	-	-	575	-	-	-
	CV-501	CV-49	495	1	-	-	-	-	495	-
ELECTRICAL SERVICE	PB-E500	PB-E500	15	1	15	-	-	-	-	-
	PB-E500	PB-E501	135	1	-	-	-	-	135	-
	PB-E501	PB-E502	335	1	-	-	-	-	335	-
	PB-C501/PB-E503	SDS-70-0049E1/E2	25	2	50	-	-	-	-	-
	CV-49	PB-4	55	+	-	-	-	-	-	-
TOTALS			125		840	575	470	1,885		435

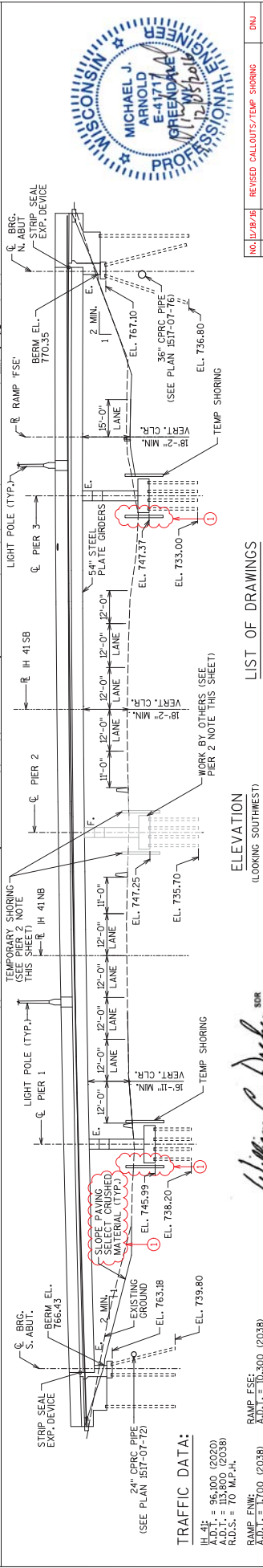
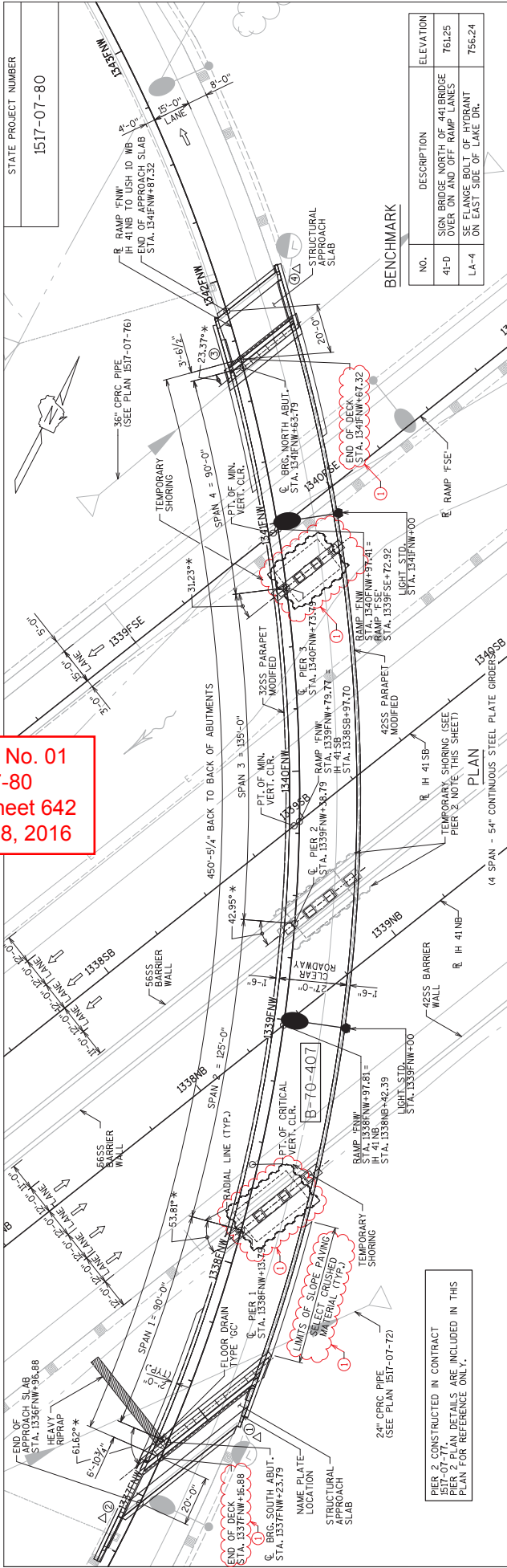
Addendum No. 01  
ID 1517-07-80  
Revised Sheet 428  
December 8, 2016

PROJECT NUMBER: 1517-07-80 | HWY: USH 10 | COUNTY: WINNEBAGO | ORIGINATOR: JESSICA MEDDAUGH | ORIG. DATE: June 15, 2016 | PLOTTED DATE: 11/9/2016 2:46 PM | SHEET NO: 428 | E

ALL ITEMS ARE CATEGORY 1000 UNLESS OTHERWISE SPECIFIED. | MISCELLANEOUS QUANTITIES



**Addendum No. 01**  
**ID 1517-07-80**  
**Revised Sheet 642**  
**December 8, 2016**



NO.	DATE	REVISION	BY
10/12/16		REVISED CALLOUTS/TEMP SHORING	DNU
<b>AECOM</b>			
1505 South Rivercenter Drive, Suite 214 Madison, WI 53704 (608) 261-4222			
STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION			
ACCEPTED	CHIEF STRUCTURES DESIGN ENGINEER	DATE	
<b>STRUCTURE B-70-40T</b>			
COUNTY	WINNEBAGO	TOWN/VILLAGE/TOWNSHIP	MENASHA
DESIGN SPEC.	ASHTO LRFD BRIDGE DESIGN SPECIFICATIONS	DESIGN LANE	LKH
BY	ASSIGNED JRS	BY	DNU
<b>GENERAL PLAN AND ELEVATION</b>			
			SHEET 1 OF 47
			<b>642</b>

**NE REGION CONTACT:** SCOTT EBEL (920) 492-2240  
**CONSULTANT CONTACT:** MICHAEL ARNSOLD (608) 944-8484

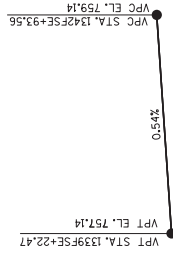
**BUREAU OF STRUCTURES:** (608) 944-8484

**CONSULTANT CONTACT:** MICHAEL ARNSOLD (608) 944-8484

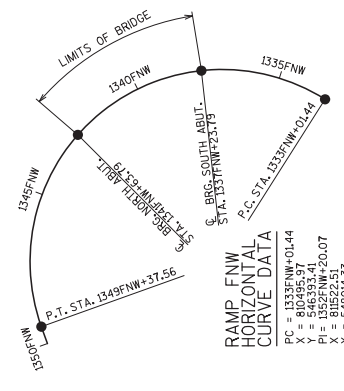


*William C. Decker*  
 12/07/16

STATE PROJECT NUMBER  
1517-07-80



PROFILE GRADE LINE RAMP FSE



RAMP FNM  
HORIZONTAL  
CURVE DATA

HORIZONTAL ALIGNMENT RAMP FNM



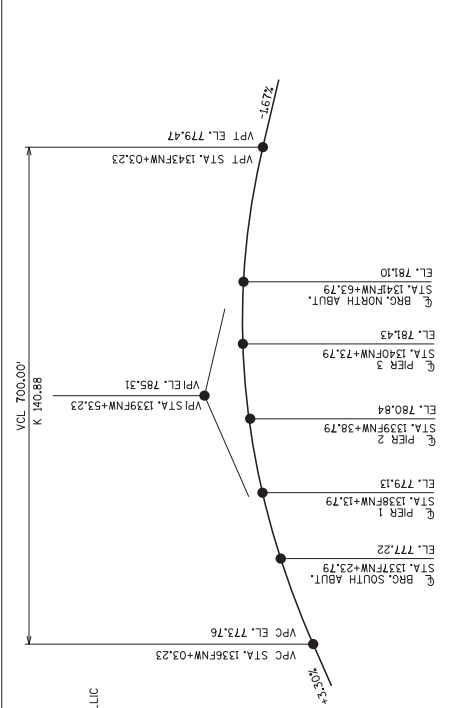
NO.	DATE	REVISION	BY
1	1/17/16	UPDATED TYP. SECTION	DNU

STATE OF WISCONSIN  
DEPARTMENT OF TRANSPORTATION

STRUCTURE B-70-407

DRAWN BY: DNU  
CHECKED BY: MJA  
SCALE: AS SHOWN

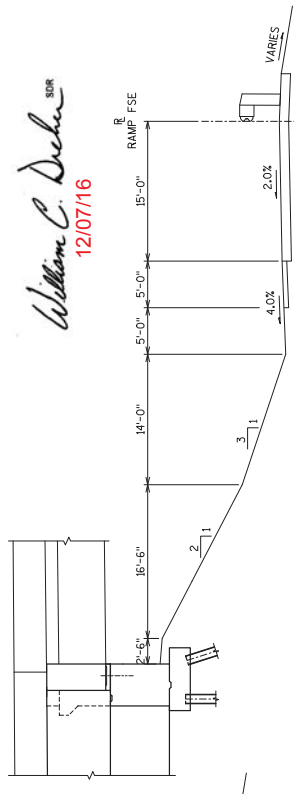
CROSS-SECTION  
SHEET 2 OF 47  
643



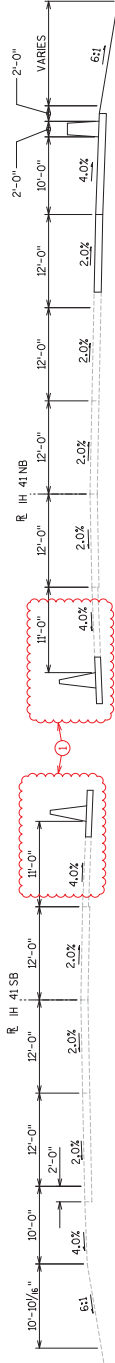
PROFILE GRADE LINE RAMP FNM



EXISTING PROFILE GRADE LINE IH 41SB  
EXISTING PROFILE GRADE LINE IH 41NB

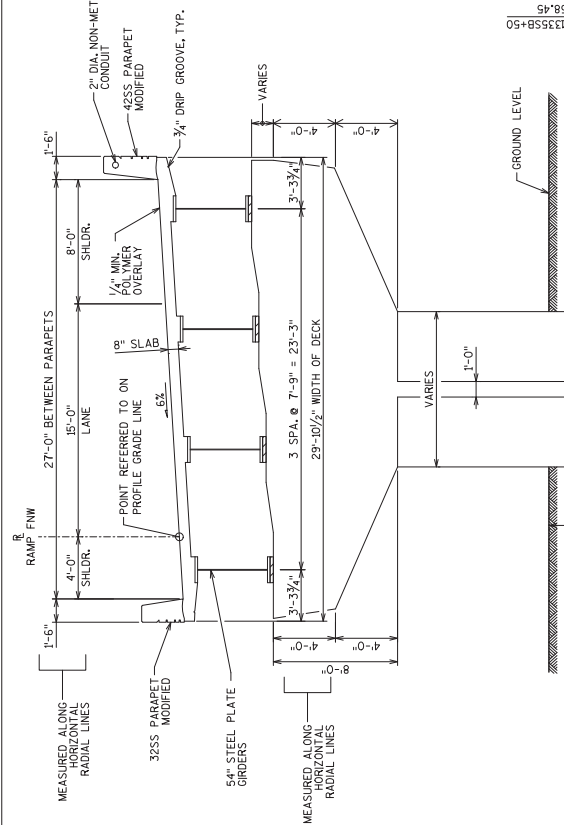


TYPICAL SECTION RAMP FSE  
(LOOKING UP STATION)



TYPICAL SECTION IH 41NB  
(LOOKING UP STATION)

TYPICAL SECTION IH 41SB  
(LOOKING UP STATION)



CROSS SECTION THRU ROADWAY  
(LOOKING UP STATION)

*William C. Decker*  
12/07/16

Addendum No. 01  
ID 1517-07-80  
Revised Sheet 643  
December 8, 2016

**GENERAL NOTES**

DRAWINGS SHALL NOT BE SCALED.  
 ALL DIMENSIONS ARE IN SURVEY FEET AND SURVEY INCHES. ALL STATIONS ARE IN SURVEY FEET.  
 ELEVATIONS ARE REFERENCED TO NAVD83.  
 FILLER SHALL CONFORM TO THE REQUIREMENTS OF AASHTO DESIGNATION M53, TYPE 1, II, OR III OR W213.  
 THE EXISTING GRADE LINE SHALL BE THE UPPER LIMITS OF EXCAVATION FOR STRUCTURES.

AT ABUTMENTS, BACKFILL ALL EXCAVATED VOLUME NOT OCCUPIED BY NEW STRUCTURE WITH BACKFILL STRUCTURE.  
 THE SLOPE OF FILL IN FRONT OF THE ABUTMENTS SHALL BE COVERED WITH SLOPE PAVING MATERIAL TO THE EXTENT SHOWN ON SHEET 1 AND IN THE ABUTMENT DETAILS. THE GRADATION OF THE STRUCTURE BACKFILL SHALL MEET THE REQUIREMENTS OF SECTION 209.2.2 OF THE STANDARD SPECIFICATIONS FOR GRADE 1 MATERIAL.  
 THE QUANTITY FOR BACKFILL STRUCTURE, BID ITEM 210.000, IS CALCULATED BASED ON SECTION 6.4.2 AND STANDARD DETAIL DRAWING 9.01 IN THE WISCONSIN DEPARTMENT OF TRANSPORTATION BRIDGE MANUAL.

**REINFORCING STEEL**

ALL REINFORCING BARS ARE ENGLISH AND THE FIRST OR THE FIRST TWO DIGITS OF THE BAR MARK SIGNIFY THE BAR SIZE.  
 REINFORCING STEEL SHALL BE HIGH STRENGTH, GRADE 60 WITH F<sub>y</sub> ≥ 60 KSI.  
 ALL WELDED JOINTS SHALL BE WELDED TO THE REQUIREMENTS OF SECTION 6.4.2 OF THE STANDARD SPECIFICATIONS FOR GRADE 1 MATERIAL.

REINFORCING STEEL SHALL BE UNCOATED IN FOUNDATIONS (EXCEPT PIER SHAFT DOWELS), AND EPON COATED IN ALL OTHER LOCATIONS (INCLUDING PIER SHAFT DOWELS).  
 PLACE ALL REINFORCEMENT WITH A MINIMUM CLEAR COVER OF 2" UNLESS NOTED OTHERWISE.  
 PLACE TOP LAYER OF REINFORCING STEEL IN THE DECK SURFACE WITH 2/2" CLEAR COVER TO TOP OF SLAB.  
 PLACE BOTTOM LAYER OF REINFORCING STEEL IN THE DECK WITH 1/2" CLEAR COVER TO BOTTOM OF SLAB.

ONLY REINFORCEMENT REQUIRED BY DESIGN IS SHOWN EXPLICITLY ON THE DRAWINGS. ALL REINFORCEMENT NOT SHOWN MAY BE REQUIRED TO ENSURE STABILITY AND POSITIONING OF THE COMPLETED REINFORCEMENT CAGE. REINFORCEMENT IN ADDITION TO THAT SHOWN WILL NOT BE INCLUDED FOR PAYMENT.  
 LAP SPlice LENGTHS SHALL BE CLASS C UNLESS NOTED OTHERWISE.

**CONCRETE**

CONCRETE QUANTITY IN THE HAUNCHES WAS CALCULATED BASED ON A 4-1/8" HAUNCH DEPTH FROM TOP OF WEB TO BOTTOM OF DECK AT THE HAUNCH. THE MAXIMUM HAUNCH QUANTITY FOR WHICH PAYMENT WILL BE MADE.  
 CHAMFER ALL EXPOSED OUTSIDE CORNERS 3/4" UNLESS NOTED OTHERWISE.  
 PROTECTIVE SURFACE TREATMENT IS TO BE APPLIED TO THE APPROACH SLABS.  
 PIGMENTED SURFACE SEALER IS TO BE APPLIED TO THE INSIDE FACE AND TOP OF PARAPETS.

APPLY BRIDGE SEAT PROTECTION AS PER SECTION 502.3.12 OF THE STANDARD SPECIFICATIONS, TO THE TOP SURFACES OF BOTH ABUTMENTS BELOW EXPANSION DEVICES.  
 THE RUSTICATIONS ON THE BACK FACE OF PARAPETS AND THE PIER COLUMNS ARE INCLUDED IN THE BID ITEM "MODIFIED HIGH PERFORMANCE CONCRETE TO APPROACH BRIDGES".

**OTHER DESIGN LOADS**

THE STRUCTURE IS DESIGNED FOR THE DECK THICKNESS SHOWN. AN ADDITIONAL LOAD OF 20 PSF FOR A FUTURE WEARING SURFACE AND 5 PSF FOR A POLYMER OVERLAY ARE CONSIDERED IN THE DESIGN.  
 TEMPERATURE CHANGE FOR DETERMINING THERMAL FORCES ON STRUCTURES = 90°F.  
 PARAPETS WERE ASSUMED TO WEIGH 639 PLF AND 516 PLF FOR 4255 AND 3255 MODIFIED SECTIONS, RESPECTIVELY.  
 ALL OTHER LOADS IN ACCORDANCE WITH AASHTO.

**DESIGN CRITERIA**

DESIGN IS IN ACCORDANCE WITH AMERICAN ASSOCIATION OF STATE HIGHWAY AND TRANSPORTATION ENGINEERS (AASHTO) LRFD BRIDGE DESIGN SPECIFICATIONS AND THE WISDOT BRIDGE MANUAL.  
 ALL DETAILS, MATERIALS, AND FABRICATION SHALL CONFORM TO THE STATE OF WISCONSIN STANDARD SPECIFICATIONS FOR HIGHWAY AND STRUCTURE CONSTRUCTION. USE THE CURRENT EDITION OF THE STANDARD SPECIFICATIONS AT THE TIME OF CONSTRUCTION.  
 LIVE LOAD PLUS DYNAMIC LOAD DEFLECTION LIMIT = SPAN / 800 (HL93).

**STRUCTURAL STEEL**

ALL STRUCTURAL STEEL CONNECTIONS TO THE STRUCTURE SHALL CONFORM TO THE REQUIREMENTS OF ASTM A709 GRADE 50 FOR GRIER WEB FLANGES, STIFFENERS, SPLICE PLATES, CROSS FRAMES AND DIAPHRAGMS.  
 ALL STEEL SHALL BE PAINTED STRUCTURAL STEEL PAINT COLOR SHALL BE HOPSACK (SW 6039).  
 STEEL CONNECTIONS MUST BE EMBEDDED A MINIMUM OF 2" ABOVE BOTTOM OF CONCRETE SLAB.  
 TEMPORARY SUPPORTS AND FALSEWORK (INCLUDING BECK OVERHANG BRACKETS) SHALL NOT BE ATTACHED TO OR BEAR ON GRIER WEBS EXCEPT AT WEB STIFFENER LOCATIONS.  
 ALL FIELD CONNECTIONS SHALL BE MADE WITH 3/4" DIAMETER FRICTION TYPE HIGH-TENSILE STRENGTH BOLTS UNLESS SHOWN OR NOTED OTHERWISE.  
 DETAIL STRUCTURAL STEEL FOR STEEL DEAD LOAD ONLY FIT (RECTIFIED FIT).

**Addendum No. 01  
 ID 1517-07-80  
 Revised Sheet 644  
 December 8, 2016**

*William C. Decker*  
 12/07/16



STATE PROJECT NUMBER  
 1517-07-80

NO.	DATE	REVISION	BY
1	11/17/16	UPDATED QUANTITIES, NOTES	DNU/JDL

STATE OF WISCONSIN  
 DEPARTMENT OF TRANSPORTATION

STRUCTURE B-70-407

ISSUING OFFICE: DNU PLANS P&E/M/J/A

GENERAL NOTES AND QUANTITIES SHEET 3 OF 47

644

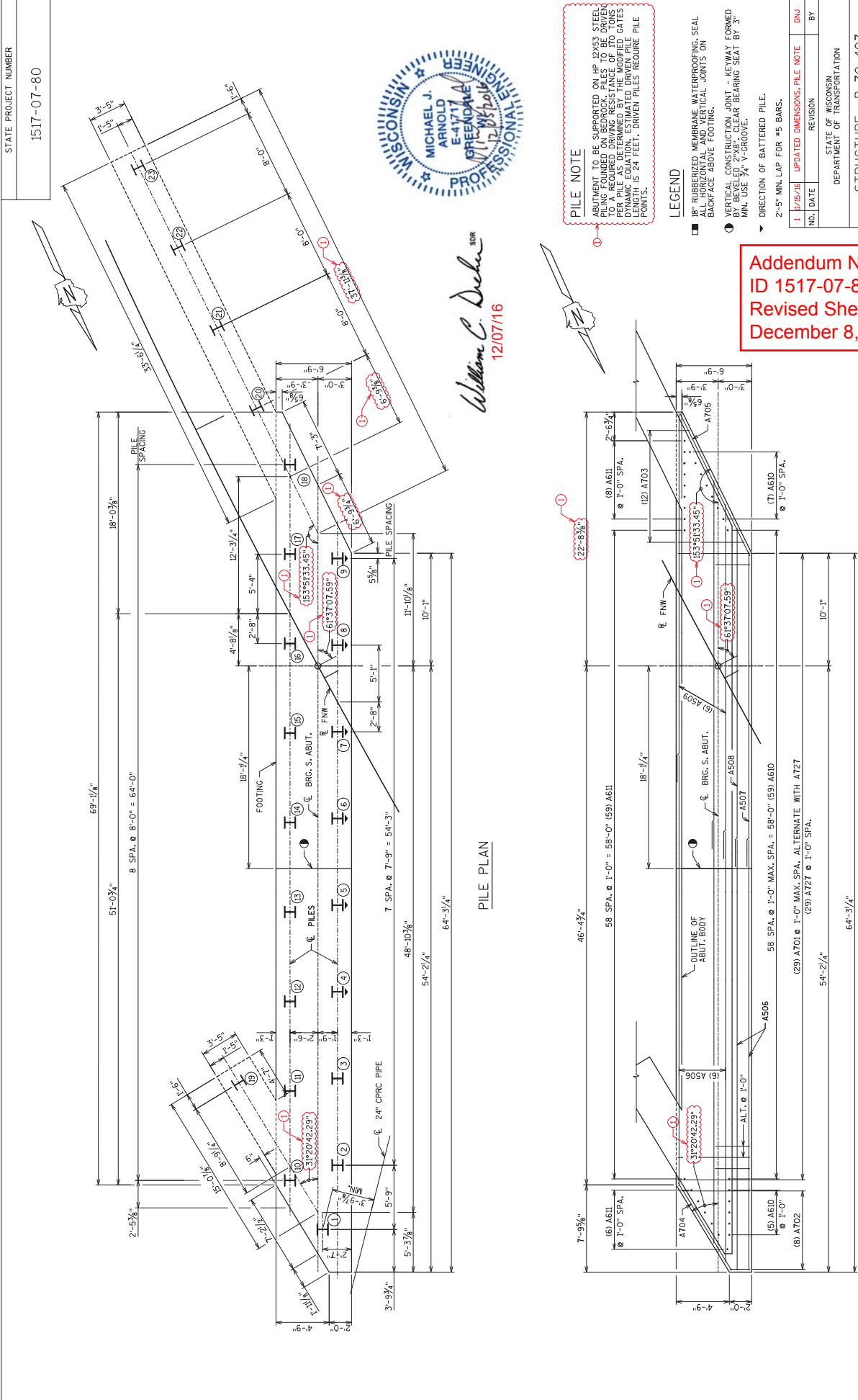
**TOTAL ESTIMATED QUANTITIES**

ITEM NO.	BID ITEM	UNIT	SUPP.	S. APPR. SLAB	S. ABUT.	PIER 1	PIER 2	PIER 3	N. ABUT.	N. APPR. SLAB	TOTAL
206.000	EXCAVATION FOR STRUCTURES BRIDGES B-70-407	LS	-	-	-	-	-	-	-	-	1
210.100	BACKFILL STRUCTURE TYPE A	CY	-	210	-	-	-	-	110	-	320
505.020	BASE AGGREGATE DENSE 1 1/4-INCH	TON	-	220	-	-	-	-	120	-	340
501.000.5	ICE HOT WEATHER CONCRETING	LB	3,675	345	1,395	1,220	10	995	835	290	8,765
502.3100	EXPANSION DEVICE B-70-407	LS	-	-	-	-	-	-	-	-	-
502.3200	PROTECTIVE SURFACE TREATMENT	SY	-	64	-	-	-	-	-	61	131
502.3210	PIGMENTED SURFACE SEALER	SY	449	-	-	-	-	-	-	-	449
505.0400	BAR STEEL REINFORCEMENT HS STRUCTURES	LB	-	1,350	6,700	-	-	7,220	1,500	-	16,770
505.0600	BAR STEEL REINFORCEMENT HS COATED STRUCTURES	LB	95,320	9,480	16,240	22,980	-	14,710	7,920	6,830	172,460
505.0800.5	BAR STEEL REINFORCEMENT HS STAINLESS STRUCTURES	LB	-	570	-	-	-	-	530	-	1,100
506.0605	STRUCTURAL STEEL HS	LB	531,198	-	-	-	-	-	-	-	531,198
506.3015	WELDED STUD SHEAR CONNECTORS 7/8X6-INCH	EACH	4,988	-	-	-	-	-	-	-	4,988
509.5100.5	POLYMER OVERLAY	SY	1,314	-	-	-	-	-	-	-	1,314
511.2000	TEMPORARY SHORING B-70-407	SF	1	-	-	-	-	775	-	-	1,795
514.0445	FLOOR DRAINS TYPE CC	EACH	1	-	-	-	-	-	-	-	1
514.2625	DOWNSPOUT 6-INCH	LF	6	-	-	-	-	-	-	-	6
516.0500	RUBBERIZED MEMBRANE WATERPROOFING	SY	-	-	19	-	-	-	11	-	30
517.0600	PAINTING EPOXY SYSTEM B-70-407	LS	-	-	-	-	-	-	-	-	1
517.1010.5	CONCRETE STAINING B-70-407	SF	5,938	1,244	1,496	1,244	1,087	1,087	772	-	11,781
517.1050.5	ARCHITECTURAL SURFACE TREATMENT B-70-407	SF	1,918	704	-	-	-	-	427	-	3,049
550.0020	PREBORING ROCK OR CONSOLIDATED MATERIALS	LF	-	-	181	-	-	286	-	-	467
550.0500	PILE POINTS	EACH	-	23	12	-	-	8	13	-	56
550.1120	PILE STEEL HP 12-INCH X 83 LB	LF	-	555	305	-	-	425	420	-	1,705
604.0600	SLOPE PAVING SELECT CRUSHED MATERIAL	SY	-	224	-	-	-	-	168	-	392
606.0300	RPPRAP HEAVY	CY	-	11	-	-	-	-	-	-	11
612.0406	PIPE UNDERDRAIN WRAPPED 6-INCH	LF	-	110	-	-	-	-	75	-	185
614.0150	ANCHOR ASSEMBLIES FOR STEEL PLATE BEAM GUARD	EACH	3	-	-	-	-	-	-	-	3
682.0225	CONDUIT RIGID METALLIC 2-INCH	LF	71	-	-	-	-	-	-	-	71
682.0225	CONDUIT RIGID NONMETALLIC SCHEDULE 40 2-INCH	LF	425	-	-	-	-	-	-	-	425
653.0220	JUNCTION BOXES 18X26X6-INCH	EACH	1	-	-	-	-	-	-	-	1
653.0222	JUNCTION BOXES 18X26X6-INCH	EACH	2	-	-	-	-	-	-	-	2
SPV-0035.700	MODIFIED HIGH PERFORMANCE CONCRETE (HPC) MASONRY BRIDGES	CY	390	46	186	162	1	133	11	39	1,167
SPV-0060.700	BEARINGS HIGH-LOAD MULTI-ROTATIONAL GUIDED	EACH	-	-	4	-	-	4	-	-	8
SPV-0060.701	BEARINGS HIGH-LOAD MULTI-ROTATIONAL FIXED	EACH	-	-	-	-	4	-	-	-	4
SPV-0060.702	JUNCTION BOXES FIBERGLASS 18X26X6-INCH	EACH	-	-	1	-	-	-	1	-	2
	FILLER	SIZE	-	-	-	-	-	-	-	-	7 1/2, 1 1/2

\* QUANTITIES SHOWN FOR PIER 2 ARE FOR THIS CONTRACT ONLY.

STATE PROJECT NUMBER  
 1517-07-80

FILE: \\s1102k306\Projects\Transportation\10 WIS 441\CDV\Sheets\Structures-B-70-407\Sheets\70-80 Plan Set\05-B-70-407.S\_Abrt.1.dgn



*William C. Dehn, SR.*  
 12/07/16

**PILE NOTE**  
 ABUTMENT TO BE SUPPORTED ON HP 12X53 STEEL PILING FUNDED ON BEDROCK. PILES TO BE DRIVEN TO FULL DRIVING RESISTANCE OF 70 TONS. DRIVING LOGS TO BE SUBMITTED WITH THE DYNAMIC EQUATION, ESTIMATED DRIVEN PILE LENGTH IS 24 FEET. DRIVEN PILES REQUIRE PILE POINTS.

**LEGEND**  
 ■ RUBBERIZED MEMBRANE WATERPROOFING SEAL BACKFACE ABOVE FOOTING.  
 ● VERTICAL CONSTRUCTION JOINT - KEYWAY FORMED MIN. USE 5/8" X GROOVE.  
 ▶ DIRECTION OF BATTERED PILE.  
 2-5" MIN. LAP FOR #5 BARS.

**Addendum No. 01**  
 ID 1517-07-80  
 Revised Sheet 646  
 December 8, 2016

NO.	DATE	REVISION	DW
1	12/3/2016	UPDATED DIMENSIONS, PILE NOTE	DWJ

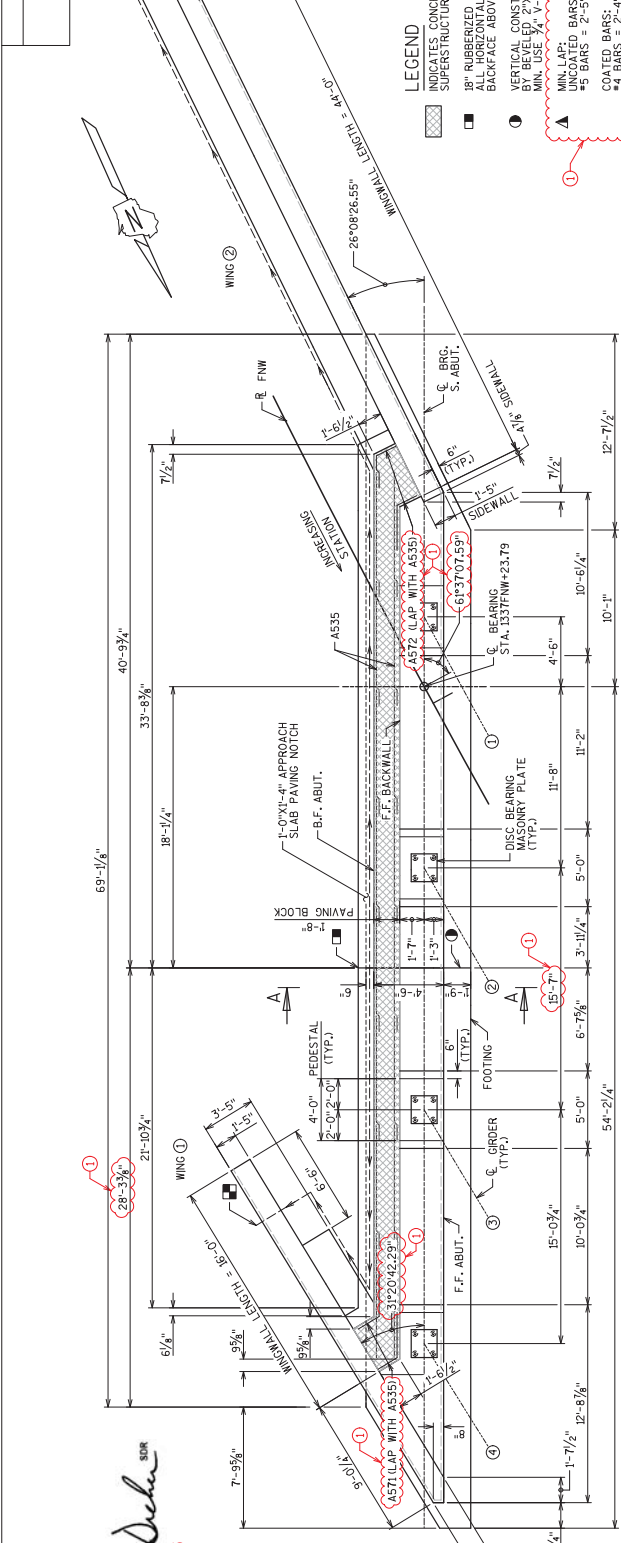
STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION	
STRUCTURE B-70-407	DRAWN BY DWJ
CHECKED BY JDL	
SHEET 5 OF 47	
DETAILS (1 OF 5)	
646	

**FOOTING PLAN**  
 FOOTING REINFORCEMENT SHOWN

**PILE PLAN**



STATE PROJECT NUMBER  
**1517-07-80**



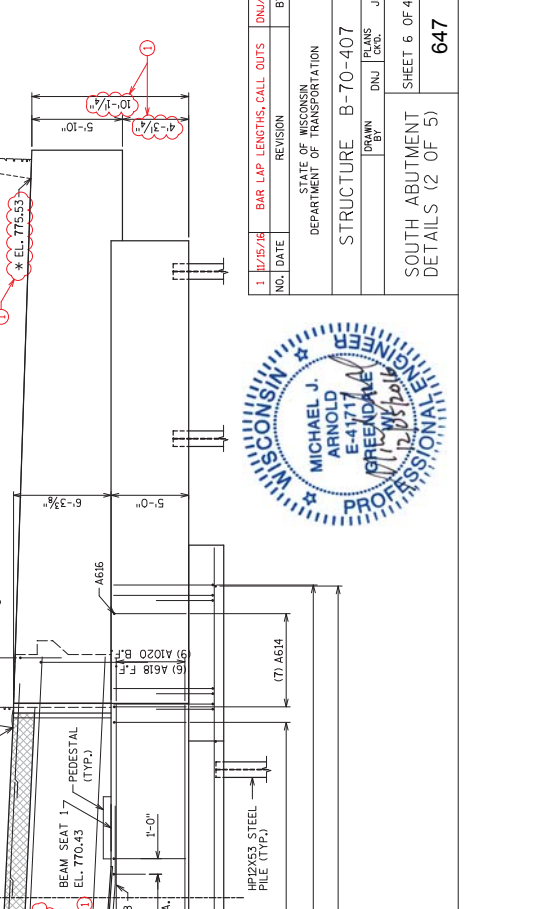
**LEGEND**

- INDICATES CONCRETE AREA TO BE POURED AFTER SUPERSTRUCTURE CONCRETE IS IN PLACE.
- 18" RUBBERIZED MEMBRANE WATERPROOFING; SEAL ALL VERTICAL JOINTS ON BACKFACE ABOVE FOOTING.
- VERTICAL CONSTRUCTION JOINT - KEYWAY FORMED MIN. USE 3/4" V-GROOVE.
- MIN. LAPPED BARS:
  - #5 BARS = 2'-0"
  - COATED BARS:
    - #4 BARS = 2'-4"
    - #6 BARS = 3'-0"
    - #10 BARS = 9'-3"
- ELEVATIONS GIVEN AT THE TOE OF THE PARAPET.
- PIPE UNDERDRAIN WRAPPED (6-INCH); SLOPE 0.5% AWAY FROM STRUCTURE TO PLEASANTLY DRAINAGE SHIELD AT ENDS OF PIPE UNDERDRAIN.

**NOTES**

FOR SECTION A-A, SEE SHEET 7.

FOR FOOTING REINFORCEMENT, SEE SHEET 5.



WING ②

MINIMUM LAP LENGTH = 44'-0"

FOR FORMLINER SEE SHEET AESTHETIC DETAILS

INDICATES CONCRETE AREA TO BE POURED AFTER SUPERSTRUCTURE CONCRETE IS IN PLACE.

18" RUBBERIZED MEMBRANE WATERPROOFING; SEAL ALL VERTICAL JOINTS ON BACKFACE ABOVE FOOTING.

VERTICAL CONSTRUCTION JOINT - KEYWAY FORMED MIN. USE 3/4" V-GROOVE.

MIN. LAPPED BARS: #5 BARS = 2'-0"

COATED BARS: #4 BARS = 2'-4"

#6 BARS = 3'-0"

#10 BARS = 9'-3"

ELEVATIONS GIVEN AT THE TOE OF THE PARAPET.

PIPE UNDERDRAIN WRAPPED (6-INCH); SLOPE 0.5% AWAY FROM STRUCTURE TO PLEASANTLY DRAINAGE SHIELD AT ENDS OF PIPE UNDERDRAIN.

NOTES

FOR SECTION A-A, SEE SHEET 7.

FOR FOOTING REINFORCEMENT, SEE SHEET 5.

WING ①

MINIMUM LAP LENGTH = 44'-0"

FOR FORMLINER SEE SHEET AESTHETIC DETAILS

INDICATES CONCRETE AREA TO BE POURED AFTER SUPERSTRUCTURE CONCRETE IS IN PLACE.

18" RUBBERIZED MEMBRANE WATERPROOFING; SEAL ALL VERTICAL JOINTS ON BACKFACE ABOVE FOOTING.

VERTICAL CONSTRUCTION JOINT - KEYWAY FORMED MIN. USE 3/4" V-GROOVE.

MIN. LAPPED BARS: #5 BARS = 2'-0"

COATED BARS: #4 BARS = 2'-4"

#6 BARS = 3'-0"

#10 BARS = 9'-3"

ELEVATIONS GIVEN AT THE TOE OF THE PARAPET.

PIPE UNDERDRAIN WRAPPED (6-INCH); SLOPE 0.5% AWAY FROM STRUCTURE TO PLEASANTLY DRAINAGE SHIELD AT ENDS OF PIPE UNDERDRAIN.

NOTES

FOR SECTION A-A, SEE SHEET 7.

FOR FOOTING REINFORCEMENT, SEE SHEET 5.



NO.	DATE	REVISION	BAR LAP LENGTHS, CALL OUTS	DNV/JDL	BY
1	12/3/2016				

STATE OF WISCONSIN  
DEPARTMENT OF TRANSPORTATION

STRUCTURE B-70-407

DESIGNED BY: JDN/J  
DRAWN BY: JDN/J

SOUTH ABUTMENT  
DETAILS (2 OF 5)

SHEET 6 OF 47

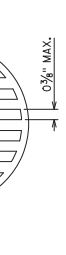
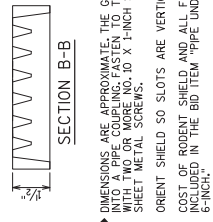
**647**

William C. Decker  
12/07/16

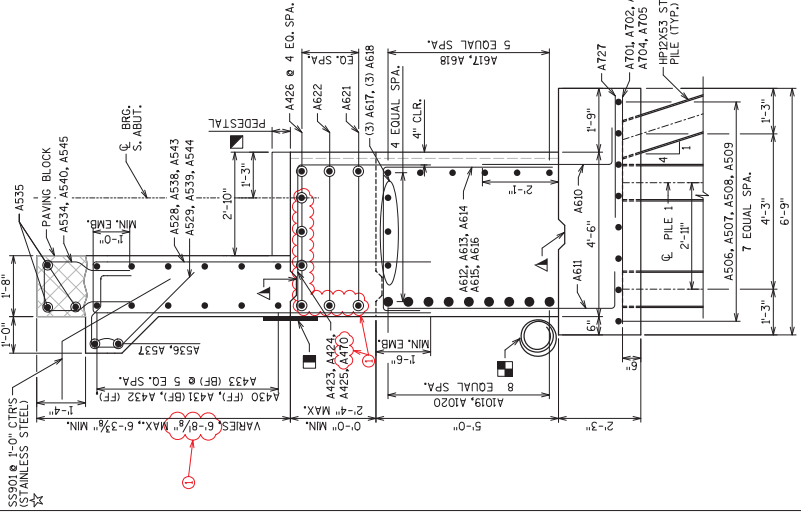
Addendum No. 01  
ID 1517-07-80  
Revised Sheet 647  
December 8, 2016



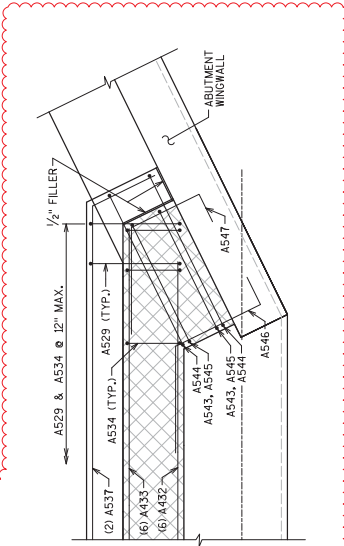
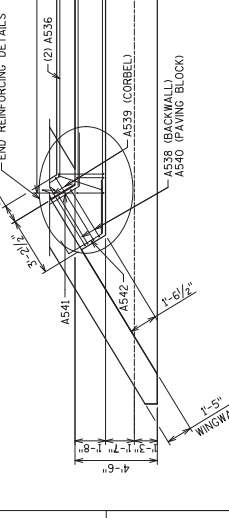
STATE PROJECT NUMBER  
1517-07-80



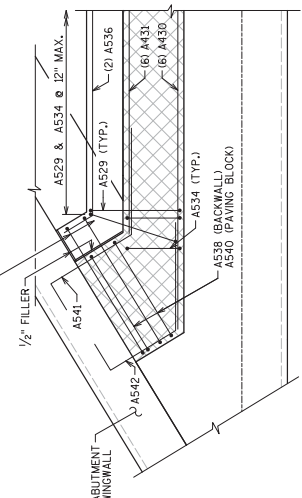
**Addendum No. 01**  
ID 1517-07-80  
Revised Sheet 648  
December 8, 2016



SECTION A-A



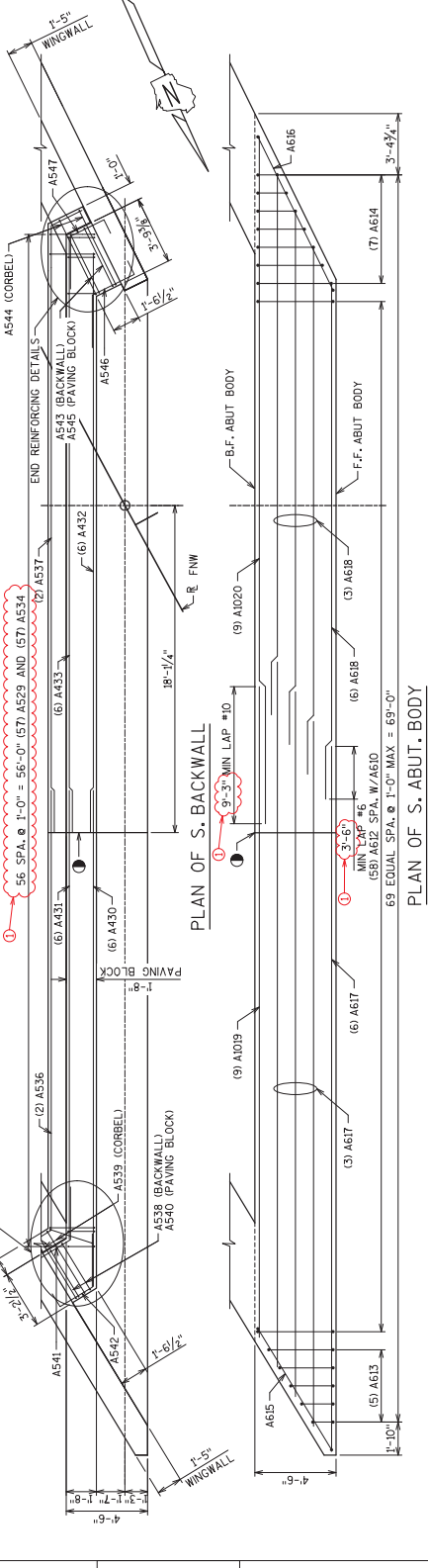
WEST END REINFORCING DETAIL



EAST END REINFORCING DETAIL

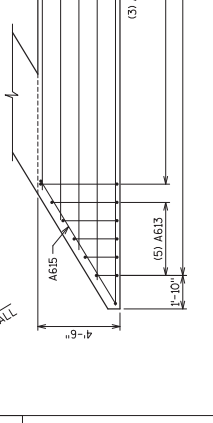
*William C. Dehn* SR  
12/07/16

- NOTES**
- FOR MIN LAP LENGTHS SEE "SOUTH ABUTMENT DETAILS" (2 OF 5).
- LEGEND**
- SEE SHEET "BEARING PEDESTAL DETAILS" FOR PEDESTAL DIMENSIONS AND REINFORCEMENT.
  - SS301 STAINLESS STEEL BARS PLACED AT 1'-0".
  - "SOUTH ABUTMENT APPROACH SLAB DETAILS".
  - VERTICAL CONSTRUCTION JOINT - KEYWAY FORMED BY BEARING PEDESTAL BEARING SEAT BY 3/4".
  - MIN. USE 3/4" V-GROOVE.
  - KEYWAY UNDERNEATH WATERPROOFING.
  - HORIZONTAL AND VERTICAL JOINTS ON BACKFACE ABOVE FOOTING.
  - KEYWAY CONSTRUCTION JOINT FORMED BY BEVELED 2"x4".
  - PIPE UNDERPAIN WRAPPED (6-INCH) SLOPE 0.5% ON RISE. CONSTRUCTION JOINTS AT ENDS OF PIPE UNDERPAIN.



PLAN OF S. BACKWALL

PLAN OF S. ABUT. BODY



NO.	DATE	REVISION	BY
1	12/7/16	UPDATED CALL OUTS, ADDED BARS	DNU/JDL

STATE OF WISCONSIN  
DEPARTMENT OF TRANSPORTATION

STRUCTURE B-70-407

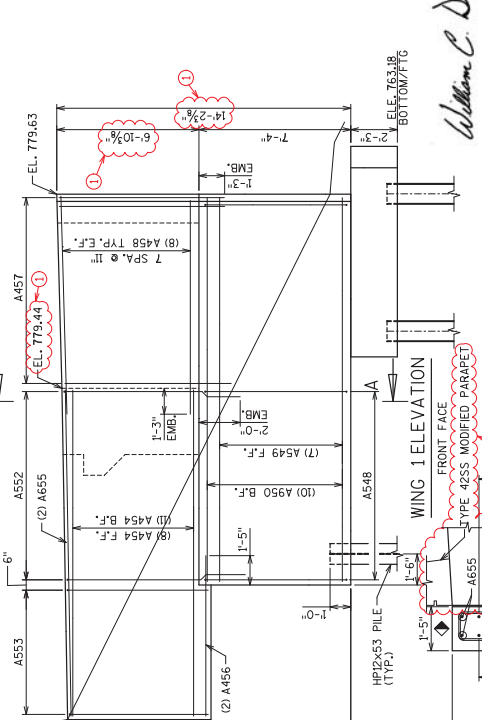
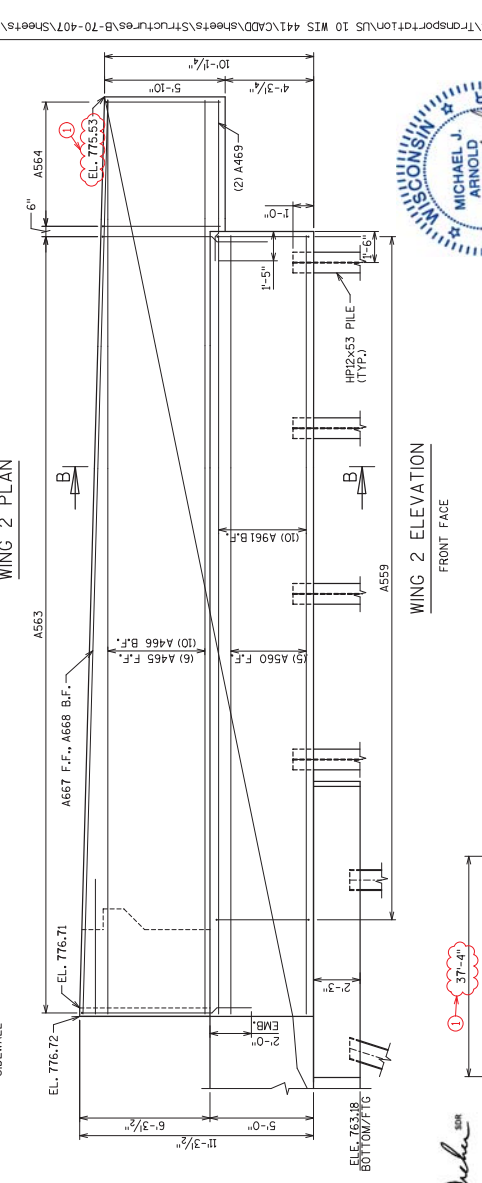
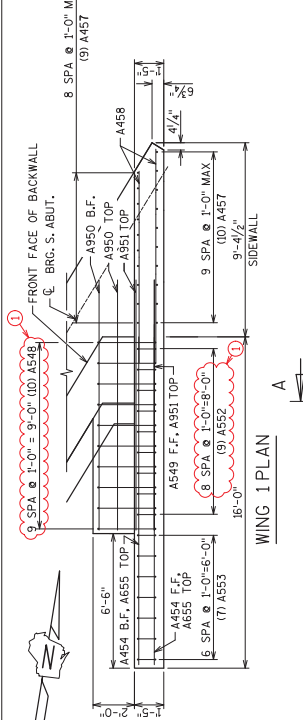
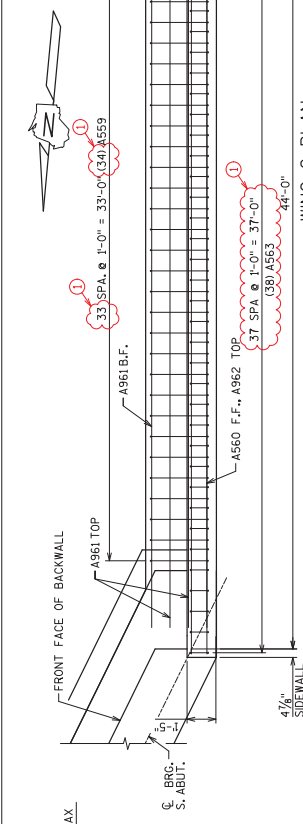
DRAWN BY DNU  
CHECKED BY JDL  
PLANS FILED

SOUTH ABUTMENT  
SHEET 7 OF 47  
DETAILS (3 OF 5)

**648**

FILE: \\s1102k306\projects\transportation\10 WIS 441\CD\Drawings\Structures\B-70-407\Sheets\07-80 Plan Set\07-80-407\_S.Abut\_3.dgn



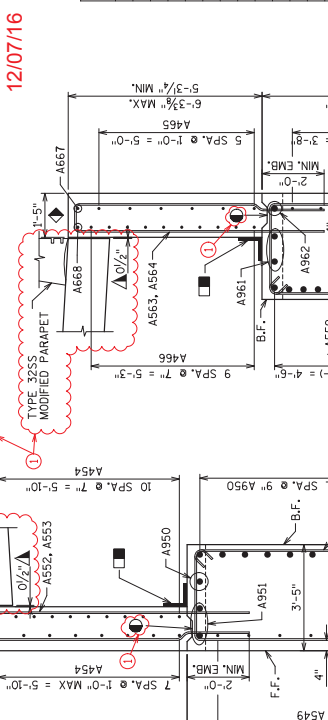


William C. Dehn  
12/07/16

BILL OF BARS

BAR MARK	COAT	NO. RECD	LENGTH	BAR SERIES	BENT	LOCATION
A548	X (1)	(10)	20'-2"		X	WING 1, BASE, VERTICAL STIRRUP
A549	X	7	18'-4"			WING 1, BASE, HORIZONTAL, F.F.
A550	X	11	(3)-9"			WING 1, BASE, HORIZONTAL, B.F. AND TOP
A551	X	2	(10)-9"		(1)	WING 1, BASE, HORIZONTAL, TOP
A552	X (1)	(9)	17'-6"		X	WING 1, STEM, VERTICAL
A553	X	7	13'-8"		X	WING 1, STEM, HORIZONTAL
A554	X	19	15'-8"		X	WING 1, STEM, HORIZONTAL, F.F. AND B.F.
A555	X	2	15'-8"		X	WING 1, STEM, HORIZONTAL, TOP
A556	X	2	7'-9"		X	WING 1, STEM, HORIZONTAL, BOTTOM
A557	X	16	8'-0"		X	WING 1, SIDEWALL, VERTICAL
A558	X	16	10'-6"		X	WING 1, SIDEWALL, HORIZONTAL
A559	X (1)	(34)	15'-6"		X	WING 2, BASE, VERTICAL STIRRUP
A560	X	5	37'-4"			WING 2, BASE, HORIZONTAL, F.F.
A561	X	12	36'-2"		(1)	WING 2, BASE, HORIZONTAL, B.F. AND TOP
A562	X	1	136'-3"		X	WING 2, BASE, HORIZONTAL, TOP
A563	X	38	18'-10"		X	WING 2, STEM, VERTICAL
A564	X (1)	7	11'-6"		X	WING 2, STEM, HORIZONTAL
A565	X	6	44'-0"		X	WING 2, STEM, HORIZONTAL, F.F.
A566	X	10	44'-0"		(1)	WING 2, STEM, HORIZONTAL, B.F.
A567	X	1	44'-0"		X	WING 2, STEM, HORIZONTAL, TOP, F.F.
A568	X	1	44'-0"		X	WING 2, STEM, HORIZONTAL, TOP, B.F.
A469	X	2	7'-9"			WING 2, HORIZONTAL, BOTTOM

TOTAL WEIGHT = 5,360 LB (1)



LEGEND

- 1 SLOPE 1:1 FOR DRAINAGE
- 2 8" RUBBERIZED MEMBRANE WATERPROOFING. SEAL ALL HORIZONTAL AND VERTICAL JOINTS ON BACKFACE ABOVE FOOTING.
- 3 OPTIONAL CONSTRUCTION JOINT FORMED BY BEVELED 2" X 6" KEYWAY WITH MEMBRANE ON BACKFACE.
- 4 SEAL ALL EXPOSED HORIZONTAL AND VERTICAL SURFACES OF 1/2" FILLER WITH NON-STAINING GRAY NON-BITUMINOUS SURFACE PREPARED AND HOLD 1/8" BELOW SURFACE OF CONCRETE.

REVISION

NO.	DATE	REVISION	JDL	BY
1	11/9/16	UPDATED NOTES, REBAR DIMS.	JDL	

STATE OF WISCONSIN  
DEPARTMENT OF TRANSPORTATION

STRUCTURE B-70-407

SOUTH ABUTMENT  
DETAILS (4 OF 5)

649

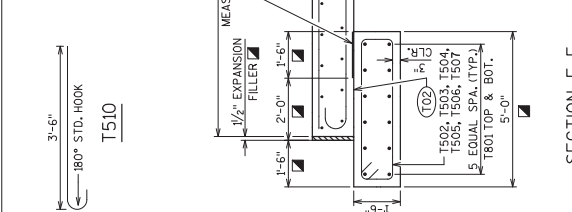
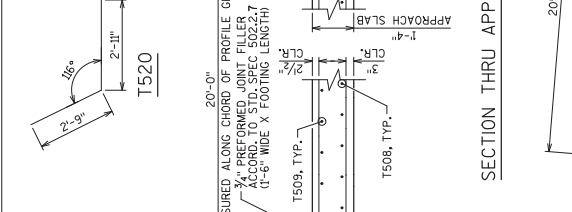
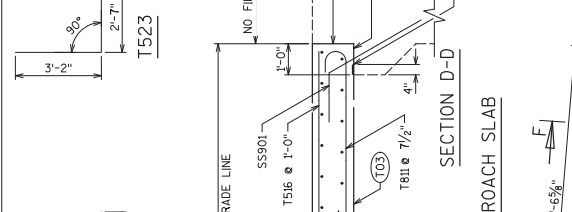
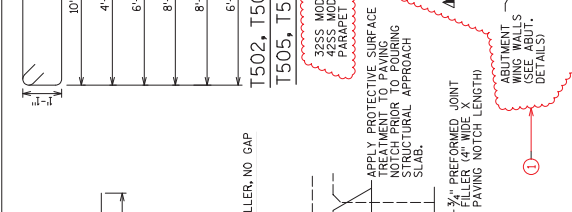
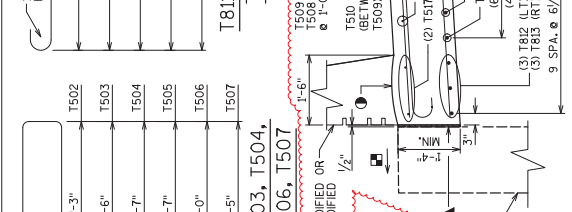
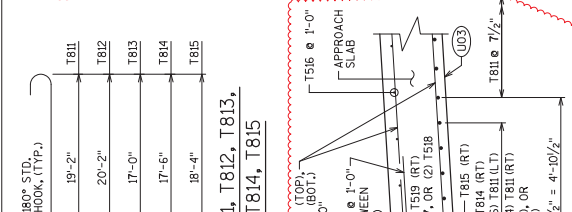
Addendum No. 01  
ID 1517-07-80  
Revised Sheet 649  
December 8, 2016



STATE PROJECT NUMBER		1517-07-80
----------------------	--	------------

BAR MARK	NO.	LENGTH	BENT	LOCATION
T801	24	35'-0"	X	FOOTING TRANS.
T502	25	23'-4"	X	FOOTING STIRRUP
T503	1	18'-0"	X	FOOTING STIRRUP LT
T504	1	18'-0"	X	FOOTING STIRRUP RT
T505	1	20'-0"	X	FOOTING STIRRUP LT
T506	1	18'-0"	X	FOOTING STIRRUP RT
T507	1	15'-8"	X	FOOTING STIRRUP RT
T508	42	33'-5"	X	SLAB TRANS. - BOTTOM
T509	42	33'-7"	X	SLAB TRANS. - TOP
T510	40	4'-1"	X	SLAB TRANS. - TOP - EACH EDGE
T811	42	21'-0"	X	SLAB LONG. - BOTTOM
T812	3	22'-0"	X	SLAB LONG. - BOTTOM
T813	3	18'-0"	X	SLAB LONG. - BOTTOM
T814	1	19'-4"	X	SLAB LONG. - BOTTOM
T815	1	20'-2"	X	SLAB LONG. - BOTTOM
T516	25	19'-2"	X	SLAB LONG. - TOP
T517	2	20'-2"	X	SLAB LONG. - TOP
T518	1	17'-0"	X	SLAB LONG. - TOP
T519	1	17'-6"	X	SLAB LONG. - TOP
T520	2	5'-8"	X	FOOTING - SW CORNER - TOP & BOTTOM
T521	2	4'-8"	X	FOOTING LONG. - SE CORNER - TOP & BOTTOM
T522	2	3'-2"	X	FOOTING TRANS. - SE CORNER - TOP & BOTTOM
T523	4	5'-8"	X	SLAB - NW & SE CORNER - TOP & BOTTOM

TOTAL WEIGHT = 9480 LB



**NOTES**

LONGITUDINAL APPROACH SLAB REINFORCEMENT SHALL BE PLACED PARALLEL TO THE APPROACH NOT NORMAL TO THE CENTERLINE OF THE ABUTMENT.

FOR S5901 BARS SEE "SOUTH ABUTMENT DETAILS (3 OF 5)" SHEET.

**LEGEND**

\* MEASURED PERPENDICULAR TO CHORD

(T02) STEEL TROWEL TOP SURFACE OF FOOTING AND PLACE MULTIPLE LAYERS (0.03" MIN. TOTAL THK) OF POLYETHYLENE SHEETS OVER ENTIRE TOP OF FOOTING.

(T03) PLACE MULTIPLE LAYERS (0.03" MIN. TOTAL THK) OF POLYETHYLENE SHEETS OVER ENTIRE TOP OF FOOTING UNDERNEATH SLAB.

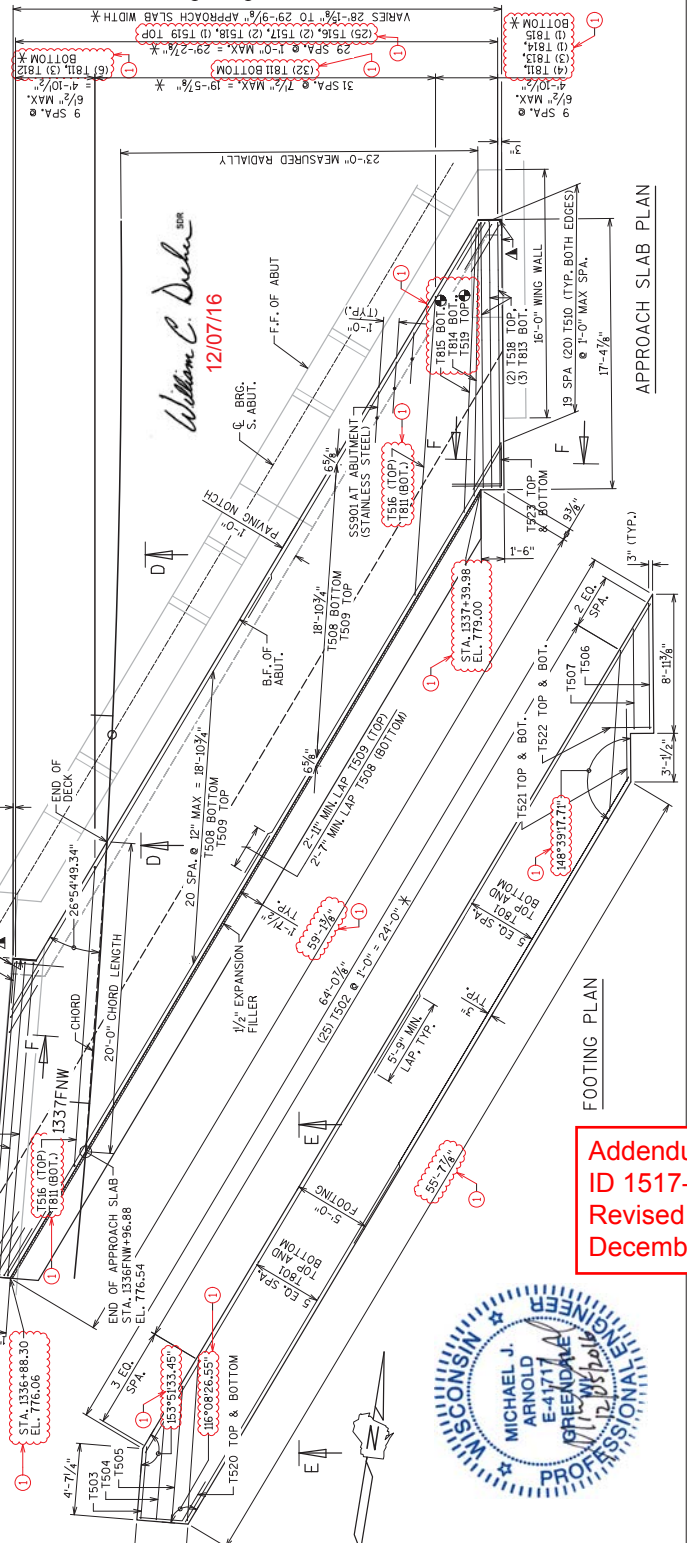
MEASURED NORMAL TO ABUTMENT BODY

SEAL ALL EXPOSED HORIZONTAL AND VERTICAL SURFACES OF FOOTING AND SLAB JOINTS WITH JOINT SEALER 1" DEEP AND HOLD 7/8" BELOW SURFACE OF CONCRETE.

CONSTRUCTION JOINT, STRIKE OFF AS SHOWN.

FIN T814 (BOT.), T815 (BOT.) AND T519 (TOP) AS NEEDED TO MAINTAIN 6 1/2" MAX. SPACING.

SLOPE TO DRAIN



Addendum No. 01  
ID 1517-07-80  
Revised Sheet 651  
December 8, 2016



STATE PROJECT NUMBER

1517-07-80

Addendum No. 01  
ID 1517-07-80  
Revised Sheet 652  
December 8, 2016

*William C. Decker* SR  
12/07/16



PILE NOTE

ABUTMENT TO BE SUPPORTED ON UP TO 43 STEEL PILES. PILES TO BE DRIVEN TO A REQUIRED DRIVING RESISTANCE OF 140 TONS PER PILE. DRIVING RESISTANCE TO BE DETERMINED BY EQUATION ESTIMATED DRIVEN PILE LENGTH IS 31 FEET. DRIVEN PILES REQUIRE PILE POINTS.

NOTES

SEE SHEET "SOUTH ABUTMENT DETAILS (5 OF 5)" FOR PILE SPlice DETAIL.

NO.	DATE	ADDED PILE NOTE	DNJ
1	1/17/16		

STATE OF WISCONSIN  
DEPARTMENT OF TRANSPORTATION

STRUCTURE B-70-407

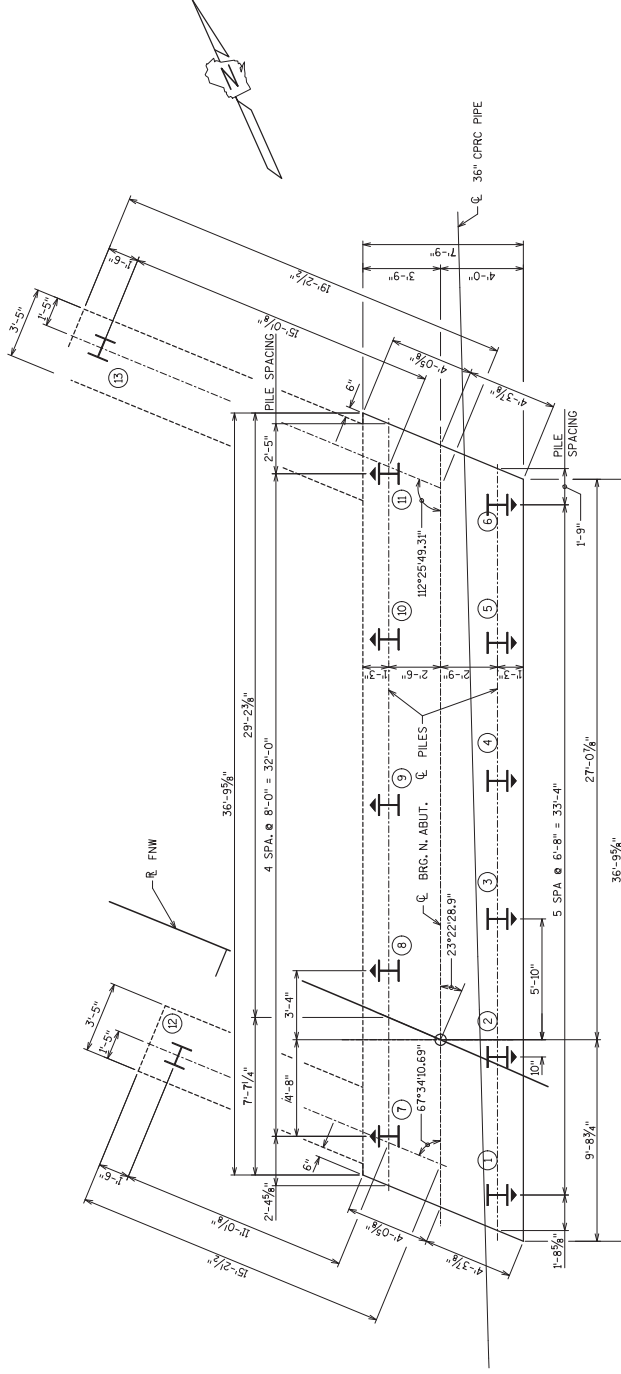
DESIGNED BY: DNJ  
CHECKED BY: JDL

SHEET 11 OF 47

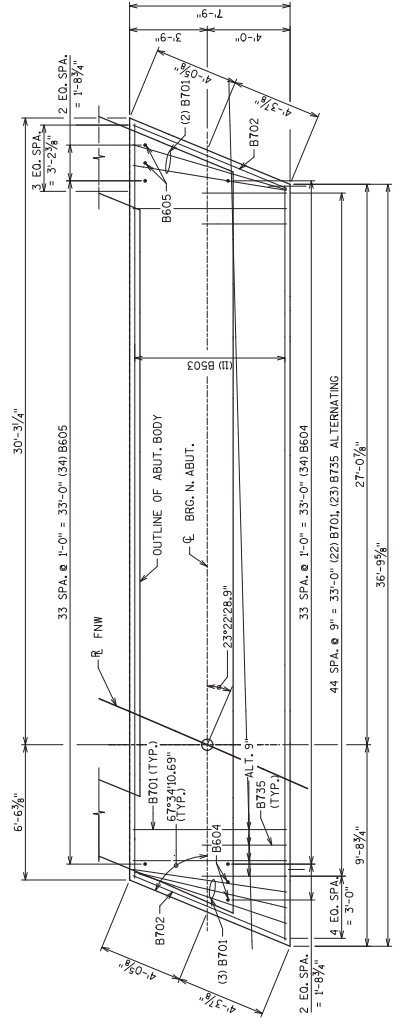
652

LEGEND

- ▣ 18" RUBBERIZED MEMBRANE WATERPROOFING. SEAL ALL HORIZONTAL AND VERTICAL JOINTS ON BACKFACE ABOVE FOOTING.
- DIRECTION OF BATTERED PILE.



PILE PLAN

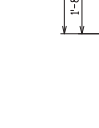


FOOTING PLAN  
SHOWING FOOTING REINF.



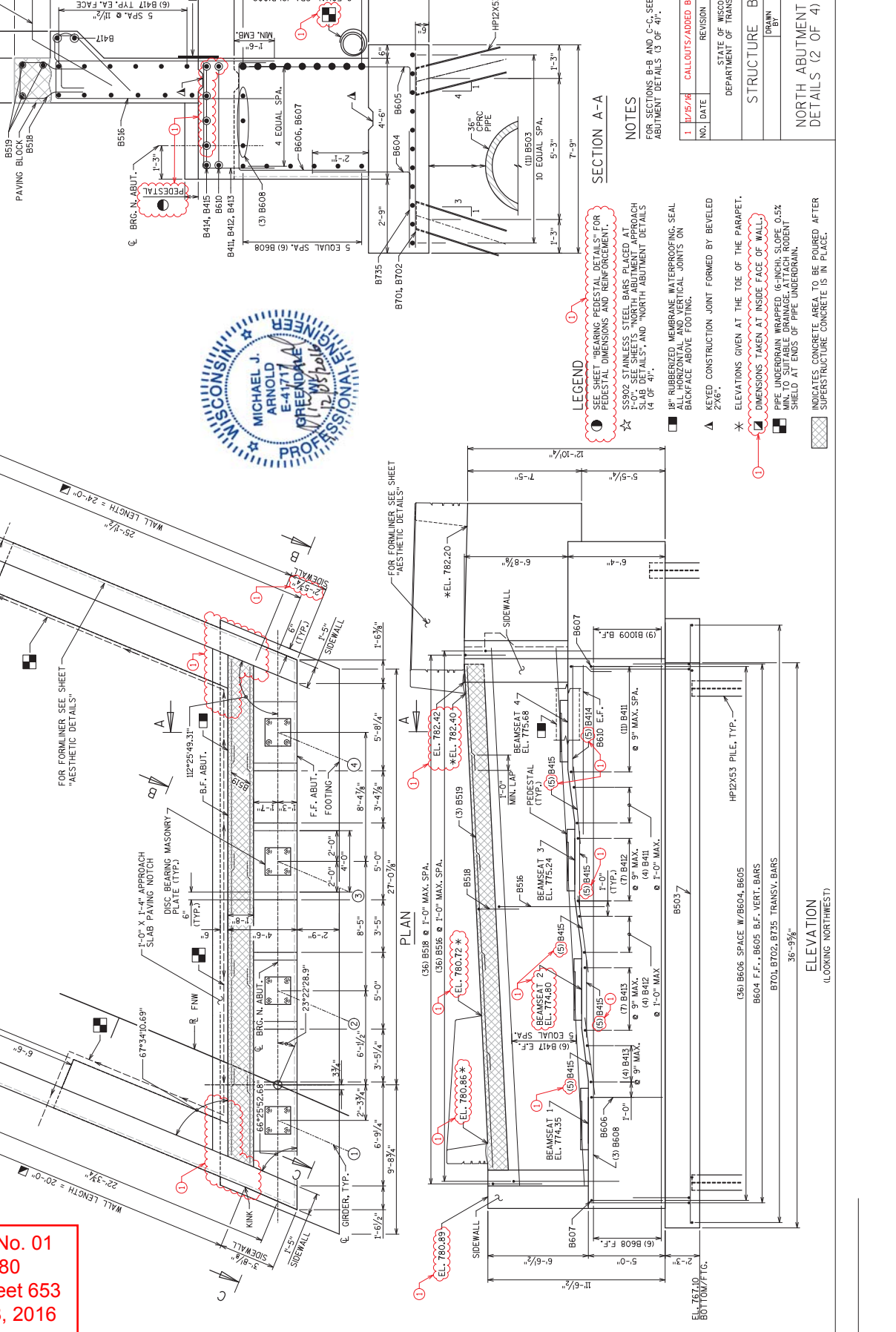
STATE PROJECT NUMBER  
1517-07-80

WING 3  
WING 4



William C. Decker  
12107116

Addendum No. 01  
ID 1517-07-80  
Revised Sheet 653  
December 8, 2016



SECTION A-A

NOTES  
FOR SECTIONS B-B AND C-C SEE SHEET "NORTH ABUTMENT DETAILS (2 OF 4)".

LEGEND  
SEE SHEET "BEARING PEDESTAL DETAILS" FOR PEDESTAL DIMENSIONS AND REINFORCEMENT.  
SEE SHEET "BEARING PEDESTAL DETAILS" FOR APPROACH SLAB DETAILS, AND "NORTH ABUTMENT DETAILS (2 OF 4)".  
18" RUBBERIZED MEMBRANE WATERPROOFING SEAL ALL HORIZONTAL AND VERTICAL JOINTS ON BACKFACE ABOVE FOOTING.  
REINFORCED CONSTRUCTION JOINT FORMED BY BEVELED 2x6".  
ELEVATIONS GIVEN AT THE TOE OF THE PARAPET.  
DIMENSIONS TAKEN AT INSIDE FACE OF WALL.  
PIPE UNDERDRAIN WRAPPED (6-INCH SLOPE 0.5% MIN. TO SUITABLE DRAINAGE, ATTACH RODENT SHIELD AT ENDS OF PIPE UNDERDRAIN.  
INDICATES CONCRETE AREA TO BE POURED AFTER SUPERSTRUCTURE CONCRETE IS IN PLACE.

NO.	DATE	REVISION	BY
1	11/15/16	CALLOUTS/ADDED B610 BAR	DNU/JDL

STATE OF WISCONSIN  
DEPARTMENT OF TRANSPORTATION  
STRUCTURE B-70-407  
NORTH ABUTMENT  
DETAILS (2 OF 4)  
SHEET 12 OF 47  
653

DATE: 12/3/2016  
FILE: \\s1102k306\projects\Transportation\10 WIS 441\CD\Drawings\Structures\B-70-407\Sheets\07-80 Plan Set\12-B-70-407\_N.Aburt.2.dgn

ELEVATION  
(LOOKING NORTHWEST)  
36'-9 5/8"

FOR FORMLINER SEE SHEET "AESTHETIC DETAILS"  
WALL LENGTH = 24'-0"

FOR FORMLINER SEE SHEET "AESTHETIC DETAILS"  
WALL LENGTH = 20'-0"

EL. 767.10  
BOTTOM/FTG.

BILL OF BARS

BAR MARK	COAT	NO. REOD	LENGTH	BAR SERIES	BENT	LOCATION
B701		27	7'-5"			FOOTING, TRANSVERSE
B702		2	8'-0"			FOOTING, TRANSVERSE
B503		11	36'-5"			FOOTING, LONGITUDINAL
B604		36	4'-6"		X	FOOTING, BODY VERTICAL, FRONT FACE
B605		36	7'-3"		X	FOOTING, BODY VERTICAL, BACK FACE
B606		36	9'-4"		X	BODY STIRRUPS
B607		2	9'-8"		X	BODY STIRRUPS
B608		9	35'-1"		X	BODY, HORIZONTAL, FRONT FACE, TOP
B609		9	35'-1"		X	BODY, HORIZONTAL, BACK FACE
B1009		2	11'-0"			BODY, HORIZONTAL, BOLSTER
B411		15	6'-9"		X	BODY, TRANSVERSE, BEAM SEAT
B412		11	6'-4"		X	BODY, TRANSVERSE, BEAM SEAT
B413		11	5'-11"		X	BODY, TRANSVERSE, BEAM SEAT
B414		5	7'-1"			BODY, LONGITUDINAL, BEAM SEAT
B415		5	5'-1"			BODY, LONGITUDINAL, BEAM SEAT
B516		36	17'-7"		X	BACKWALL, VERTICAL
B417		14	35'-1"		X	BACKWALL, HORIZONTAL
B518		36	5'-9"		X	PAVING BLOCK, VERTICAL
B519		15	7'-4"		X	PAVING BLOCK, HORIZONTAL
B520						BAR MARK NOT USED
B521						BAR MARK NOT USED
B522		13	15'-6"		X	WING 3, BASE, VERTICAL STIRRUP
B523		5	15'-8"			WING 3, BASE, HORIZONTAL, F.F.
B924		10	15'-3"			WING 3, BASE, HORIZONTAL, B.F.
B925		1	15'-5"			WING 3, BASE, HORIZONTAL, TOP
B926		1	16'-1"			WING 3, BASE, HORIZONTAL, TOP
B927		1	16'-5"			WING 3, BASE, HORIZONTAL, TOP
B528		13	17'-4"		X	WING 3, STEM, HORIZONTAL, TOP
B529		7	13'-10"		X	WING 3, STEM, VERTICAL
B430		16	19'-8"			WING 3, STEM, HORIZONTAL, F.F. AND B.F.
B631		2	19'-8"			WING 3, STEM, HORIZONTAL, TOP
B432		2	7'-9"			WING 3, STEM, HORIZONTAL, BOTTOM
B433		10	7'-7"			WING 3, SIDEWALL, VERTICAL
B434		14	5'-0"		X	WING 3, SIDEWALL, HORIZONTAL
B535		17	18'-2"		X	WING 4, BASE, VERTICAL STIRRUP
B536		6	19'-8"			WING 4, BASE, HORIZONTAL, F.F.
B937		10	20'-10"			WING 4, BASE, HORIZONTAL, TOP
B938		1	20'-6"			WING 4, BASE, HORIZONTAL, TOP
B939		1	20'-1"			WING 4, BASE, HORIZONTAL, TOP
B940		1	19'-5"			WING 4, BASE, HORIZONTAL, TOP
B541		17	18'-0"		X	WING 4, STEM, HORIZONTAL
B542		7	14'-8"		X	WING 4, STEM, VERTICAL
B443		18	23'-5"			WING 4, STEM, HORIZONTAL, F.F. AND B.F.
B644		2	23'-5"			WING 4, STEM, HORIZONTAL, TOP
B445		2	7'-9"			WING 4, HORIZONTAL, BOTTOM
B446		8	7'-11"			WING 4, SIDEWALL, VERTICAL
B447		16	4'-6"			WING 4, SIDEWALL, HORIZONTAL

TOTAL COATED WEIGHT = 7,920 LB  
 TOTAL UNCOATED WEIGHT = 1,500 LB

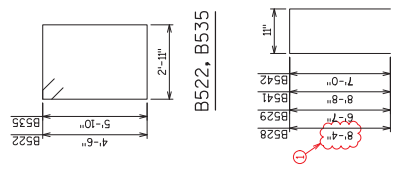
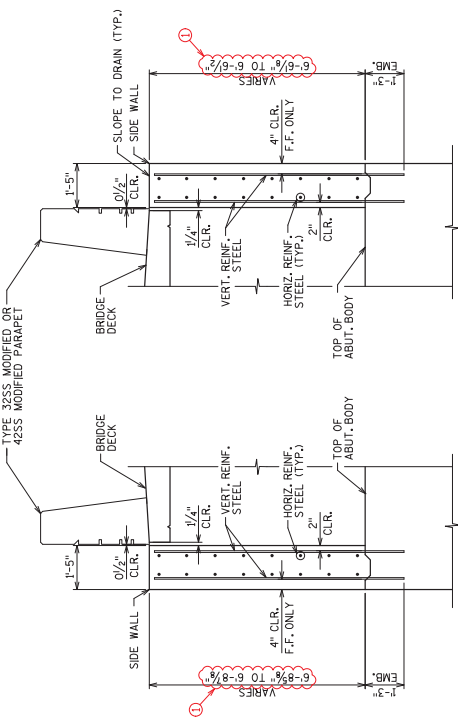
BAR MARK	NO. REOD	LENGTH	BENT	LOCATION
SS902	31	5'-0"	X	CONC BACKWALL TO APPROACH SLAB - N. ABUT.

TOTAL WEIGHT = 530 LB

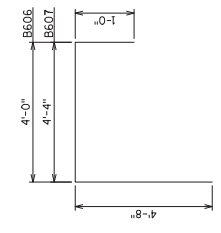


1	11/15/16	REBAR / DIMENSIONS	DNU/JDL
NO.	DATE	REVISION	BY
STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION			
STRUCTURE B-70-407			
ISSUED BY: DNU/JAN			
CHECKED BY: JDL			
NORTH ABUTMENT SHEET 13 OF 47			
654			

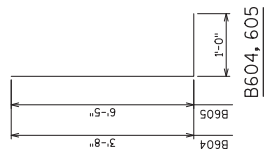
Addendum No. 01  
 ID 1517-07-80  
 Revised Sheet 654  
 December 8, 2016



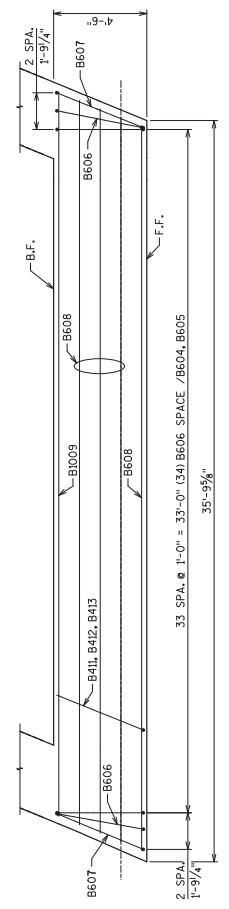
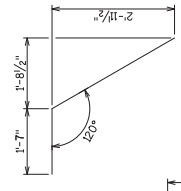
SECTION C-C



SECTION B-B



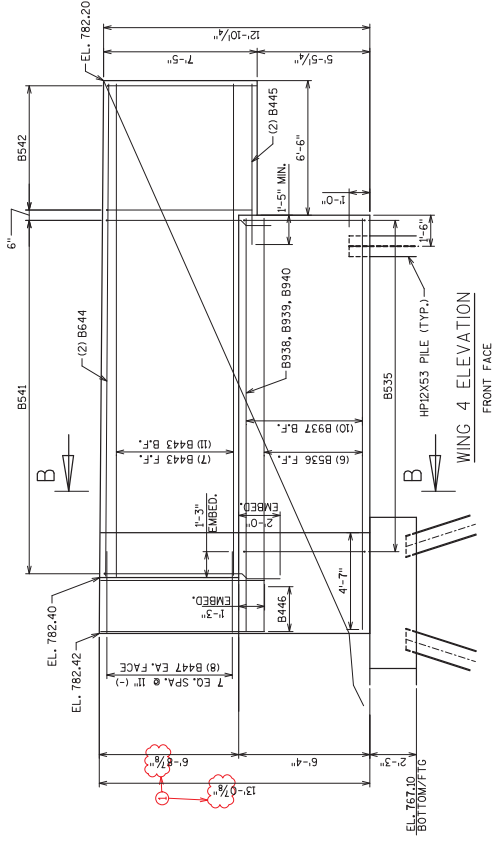
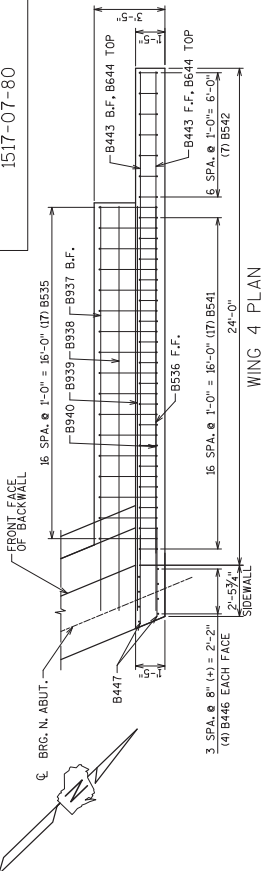
*William C. Decker*  
 12/07/16



PLAN OF N. ABUT. BODY  
 SHOWING REINF.



STATE PROJECT NUMBER  
1517-07-80



**LEGEND**

① SLOPE 12 FOR DRAINAGE.

② 8" RUBBERIZED MEMBRANE WATERPROOFING. SEAL ALL HORIZONTAL AND VERTICAL JOINTS ON BACKFACE ABOVE FOOTING.

③ SEAL ALL EXPOSED HORIZONTAL AND VERTICAL SURFACES OF CONCRETE WITH NON-STAINING GRAY NON-BITUMINOUS JOINT SEALER. IT DEEP AND HOLD 1/8" BELOW SURFACE OF CONCRETE.

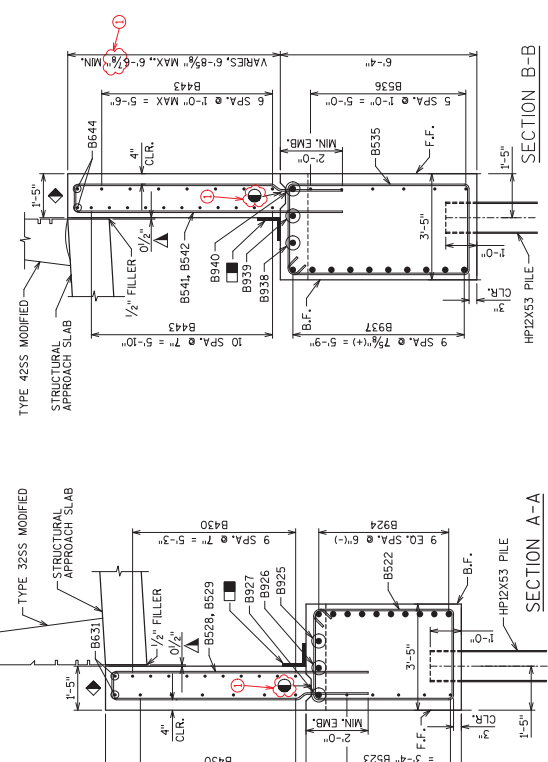
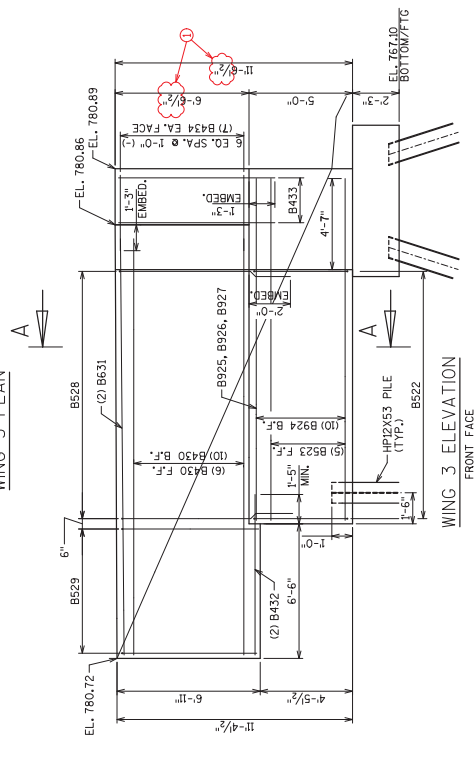
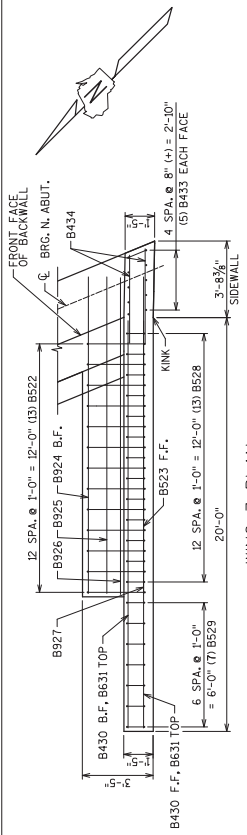
④ OPTIONAL CONSTRUCTION JOINT FORMED BY BEVELED 2" X 6" KEYWAY WITH MEMBRANE ON BACKFACE.

⑤ 1 11/8" B6 ADDED NOTE, UPDATED DIMENSIONS



*William C. Dehn*  
12/07/16

Addendum No. 01  
ID 1517-07-80  
Revised Sheet 655  
December 8, 2016



STATE PROJECT NUMBER  
1517-07-80

**BILL OF BARS**  
(ALL BARS EPOXY COATED)

BAR MARK	NO. REOD	LENGTH	BENT SERIES	LOCATION
UB01	16	19'-0"		FOOTING TRANS.
UB02	4	28'-10"		FOOTING TRANS.
UB03	28	12'-10"	X	FOOTING STRIRUP
UB04	1	10'-6"	X	FOOTING STRIRUP LT
UB05	1	9'-10"	X	FOOTING STRIRUP RT
UB06	1	8'-4"	X	FOOTING STRIRUP RT
UB07	1	9'-0"	X	FOOTING STRIRUP RT
UB08	4	3'-2"	X	FOOTING PARAPET NOTCH - TOP & BOTTOM - EACH SIDE
UB09	42	17'-7"		SLAB TRANS. TOP
UB10	42	17'-5"		SLAB TRANS. BOTTOM
UB11	40	4'-1"	X	SLAB TRANS. TOP - EACH EDGE
UB12	4	4'-2"	X	SLAB TOP & BOTTOM - EACH CORNER AT END OF APPR. SLAB
UB13	45	21'-6"	X	SLAB LONG. BOTTOM
UB14	27	19'-8"	X	SLAB LONG. TOP
UB15	3	21'-10"	X	SLAB LONG. BOTTOM LT
UB16	3	21'-3"	X	SLAB LONG. BOTTOM RT
UB17	2	20'-0"	X	SLAB LONG. TOP LT
UB18	2	19'-5"	X	SLAB LONG. TOP RT

TOTAL WEIGHT = 6,830 LB

**BAR SERIES TABLE**

BAR MARK	NO. REOD	LENGTH
UB15	1 SERIES OF 3	21'-7" TO 22'-0"
UB16	1 SERIES OF 3	21'-0" TO 21'-5"
UB17	1 SERIES OF 2	19'-9" TO 20'-2"
UB18	1 SERIES OF 2	19'-2" TO 19'-7"

**NOTES**

LONGITUDINAL APPROACH SLAB REINFORCEMENT SHALL BE PLACED PARALLEL TO THE APPROACH (NOT NORMAL TO THE CENTERLINE OF THE ABUTMENT)  
FOR S5902 BARS SEE 'NORTH ABUTMENT DETAILS (3 OF 4)' SHEET.

**LEGEND**

- (U02) STEEL TROWEL TOP SURFACE OF FOOTING AND PLACE MULTIPLE LAYERS (0.03" MIN. TOTAL THK.) OF POLYETHYLENE SHEETS OVER ENTIRE TOP OF FOOTING.
- (U03) PLACE MULTIPLE LAYERS (0.03" MIN. TOTAL THK.) OF POLYETHYLENE SHEETS OVER THE ENTIRE TOP OF SUBGRADE BENEATH SLAB.
- MEASURED NORMAL TO ABUTMENT.
- SEAL ALL EXPOSED HORIZONTAL AND VERTICAL SURFACES OF 1/2" FILLER WITH NON-STAINING GRAY, NON-BITUMINOUS JOINT SEALER 1" DEEP AND HOLD 1/4" BELOW SURFACE OF CONCRETE.
- CONSTRUCTION JOINT, STRIKE OFF AS SHOWN.
- SLOPE TO DRAIN

NO.	DATE	REVISION	BY
1	12/15/16	NOTES AND CALLOUTS	DNJ

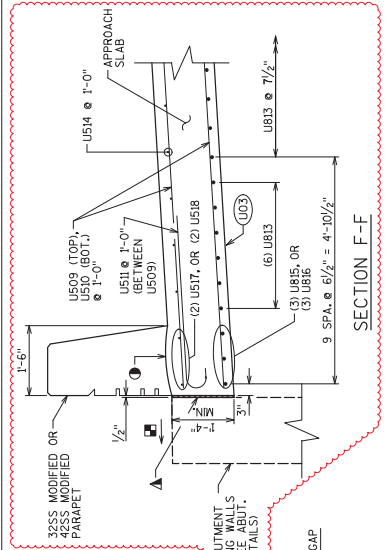
STATE OF WISCONSIN  
DEPARTMENT OF TRANSPORTATION

STRUCTURE B-70-407

NORTH ABUTMENT  
APPROACH SLAB

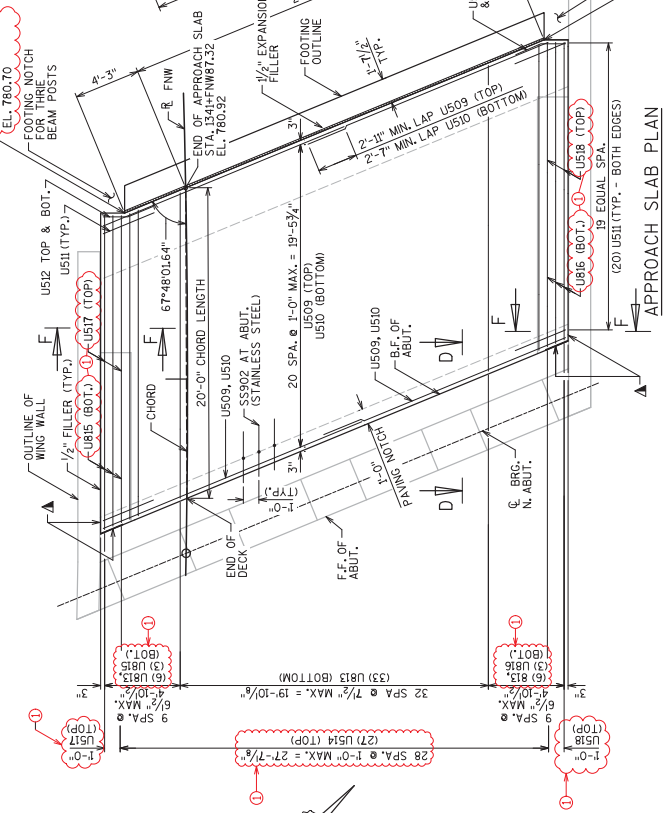
SHEET 15 OF 47

656

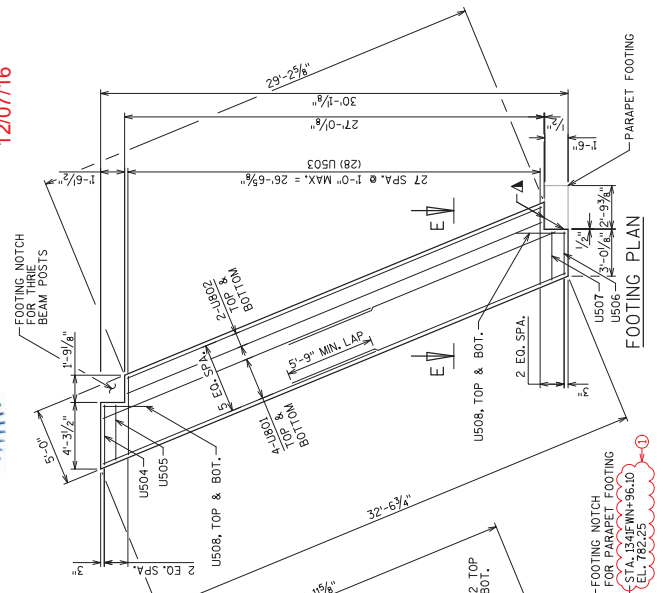


*William C. Decker*  
12/07/16

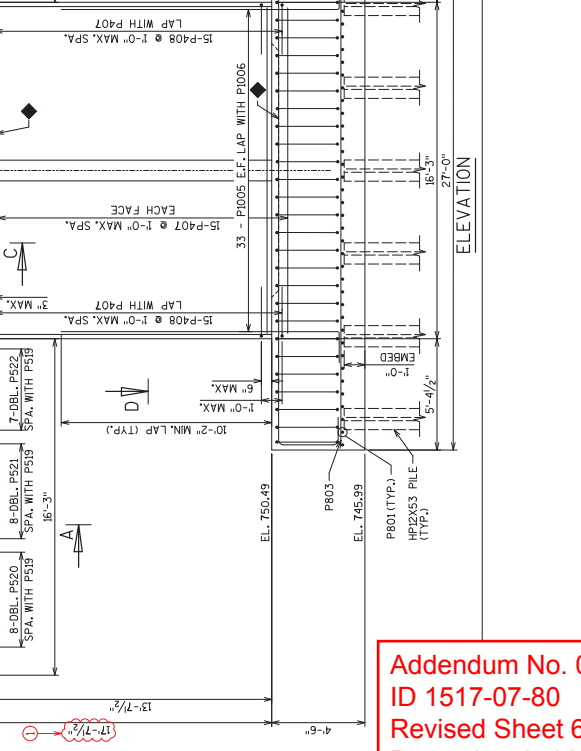
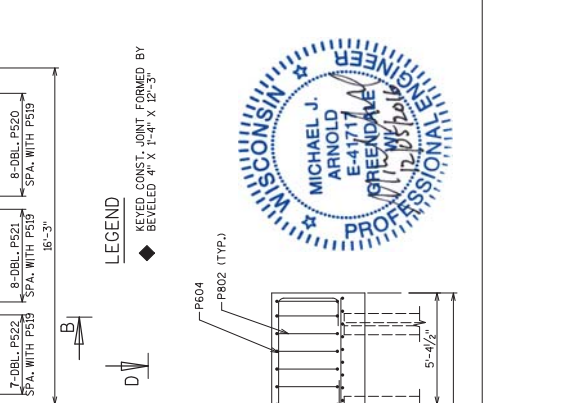
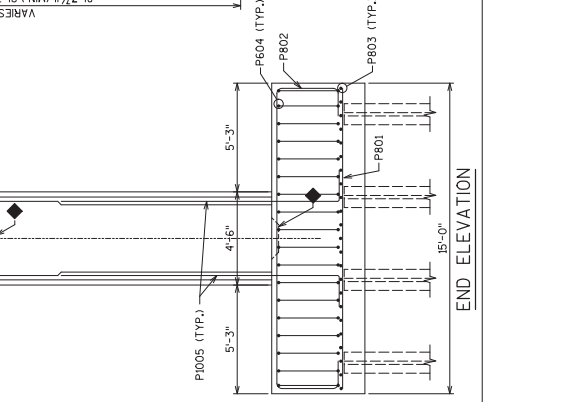
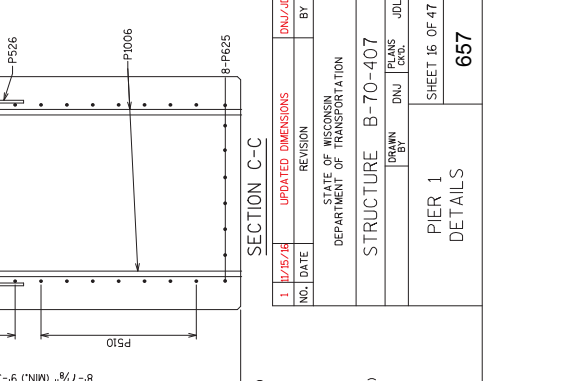
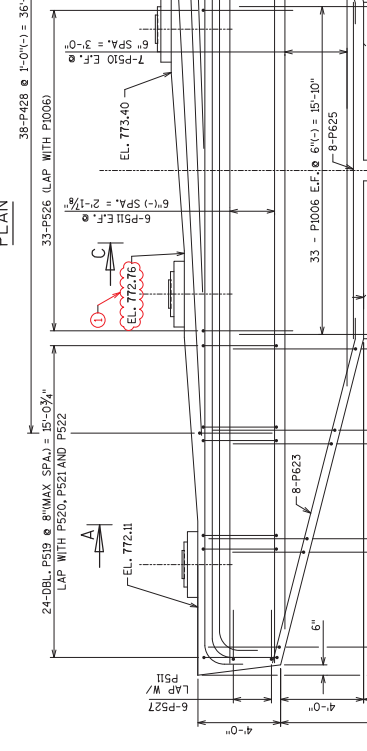
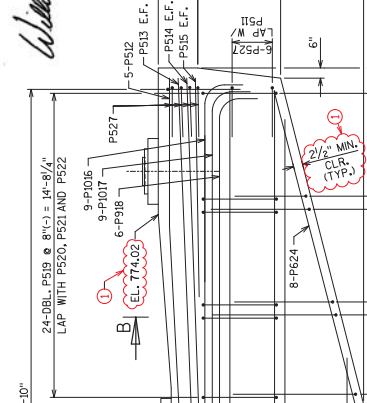
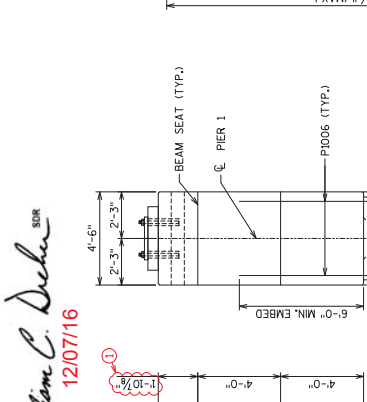
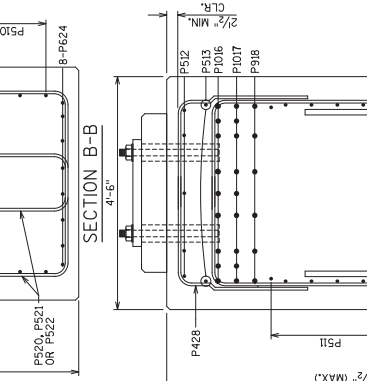
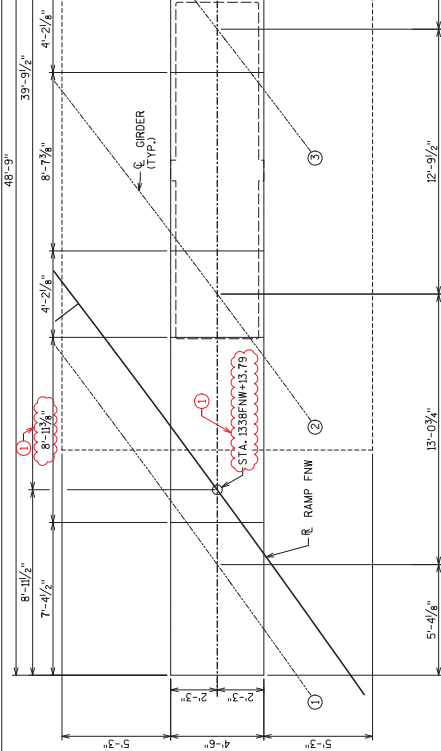
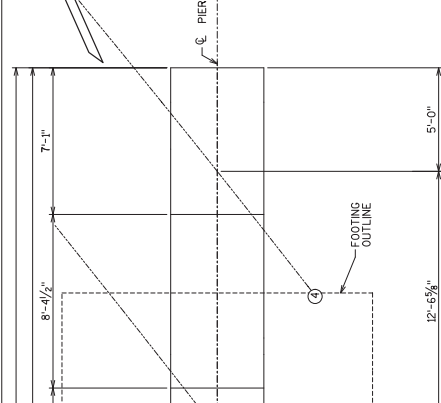
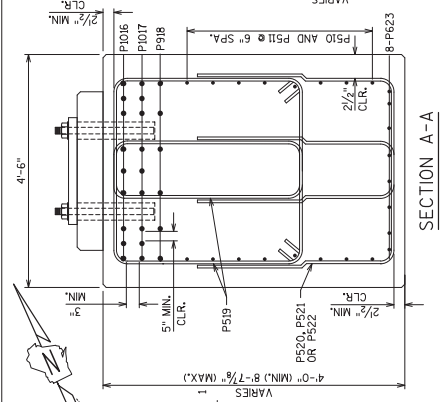
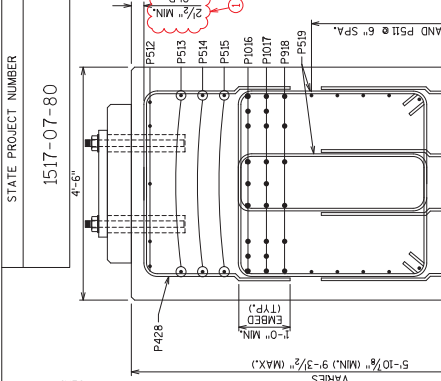
**SECTION D-D**  
SECTION THRU APPROACH SLAB



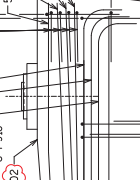
**SECTION E-E**  
SECTION THRU APPROACH SLAB



Addendum No. 01  
ID 1517-07-80  
Revised Sheet 656  
December 8, 2016



*William C. Decker*  
SR  
12/07/16



**LEGEND**  
 KEVED CONST. JOINT FORMED BY  
 BEVELED 4" X 1'-4" X 12'-3"

NO.	DATE	UPDATED DIMENSIONS	DNV/JDL	BY
1	12/15/16			

STATE OF WISCONSIN  
DEPARTMENT OF TRANSPORTATION  
STRUCTURE B-70-407

PIER 1  
DETAILS

SHEET 16 OF 47  
657

Addendum No. 01  
ID 1517-07-80  
Revised Sheet 657  
December 8, 2016

**Addendum No. 01**  
**ID 1517-07-80**  
**Revised Sheet 658**  
**December 8, 2016**

NO.	DATE	REVISION	JDL
1	11/9/16	REBAR	JDL

STATE OF WISCONSIN  
 DEPARTMENT OF TRANSPORTATION  
 STRUCTURE B-70-407  
 PIER 1  
 SHEET 17 OF 47  
**658**

FILE: \\s1102k306\projects\transportation\10 MIS 441\CD\Drawings\Structures\B-70-407\Sheets\07-80 Plan Set\17-B-70-407\_Pier1.dgn

BAR MARK	COAT	NO.	NO. REQ'D	LENGTH	BAR SERIES	BENT	LOCATION
P801		42	14'-8"				PIER FOOTING
P802		32	22'-4"			X	PIER FOOTING
P803		23	26'-8"			X	PIER FOOTING
P604		18	33'-6"			X	PIER FOOTING
P1005		80	15'-7"			X	PIER FOOTING DOWELS
P1006		80	19'-8"			X	PIER I-SHAFT VERTICAL
P407		30	15'-9"			X	PIER I-SHAFT STIRRUP
P408		30	8'-1"			X	PIER I-SHAFT STIRRUP
P409		105	4'-9"			X	PIER I-SHAFT TIES
P510		14	31'-7"			X	PIER I-CAP LATERAL
P511		12	47'-4"			X	PIER I-CAP LATERAL
P512		5	37'-0"			X	PIER I-CAP BEAM SEAT LATERAL
P513		2	30'-1"			X	PIER I-CAP BEAM SEAT LATERAL
P514		2	23'-2"			X	PIER I-CAP BEAM SEAT LATERAL
P515		2	10'-10"			X	PIER I-CAP BEAM SEAT LATERAL
P1016		9	51'-3"			X	PIER I-CAP LATERAL
P1017		9	50'-11"			X	PIER I-CAP LATERAL
P918		6	50'-3"			X	PIER I-CAP LATERAL
P519		96	13'-4"			X	PIER I-CAP STIRRUPS
P520		32	9'-8"			X	PIER I-CAP STIRRUPS
P521		32	12'-8"			X	PIER I-CAP STIRRUPS
P522		28	14'-8"			X	PIER I-CAP STIRRUPS
P623		8	17'-0"			X	PIER I-CAP LATERAL
P624		8	17'-0"			X	PIER I-CAP LATERAL
P625		8	16'-3"			X	PIER I-CAP LATERAL
P526		33	9'-6"			X	PIER I-CAP VERTICAL
P527		16	8'-10"			X	PIER I-CAP ENDS
P428		38	9'-7"			X	PIER I-CAP BEAM SEAT VERTICAL
P629		44	9'-1"			X	PIER LIFT CONNECTION

TOTAL UNCOATED WEIGHT = 6,700 LB  
 TOTAL COATED WEIGHT = 22,960 LB

BAR MARK	NO. REQUIRED	LENGTH
P510	2	19'-9" TO 43'-5"

LENGTH SHOWN FOR BAR IS AN AVERAGE LENGTH AND SHOULD ONLY BE USED FOR BAR WEIGHT CALCULATIONS. SEE BAR SERIES TABLE FOR ACTUAL LENGTHS, BUNDLE AND TAG EACH SERIES SEPARATELY.

BACKFILL WITH SAND OR OTHER ENGINEER-APPROVED MATERIAL

FILL WITH CEMENT GROUT. COST INCLUDED WITH CONCRETE FOR CONSOLIDATED MATERIALS.

1/4" Ø HOLE FOR P629 BAR. CAN BE IN WEB OR FLANGE

UPLIFT CONNECTION PILE

UPLIFT CONNECTION DETAIL

DETAIL FOR PILE ANCHOR IN ROCK

LEGEND

INDICATES PILE UPLIFT DETAIL REQUIRED

INDICATES PRE-BORE PILE 3"-Ø INTO ROCK AND UPLIFT DETAIL REQUIRED

PIER COLUMN OUTLINE

6-P1005 E.F. SPA. W/ P1006

23-P803 @ 10'/(+/-) = 14'-6" (BOTTOM)

18-P604 @ 10'/(+/-) = 14'-6" (TOP)

42-P801 @ 7 1/2'/(+/-) = 26'-6" (BOTTOM)

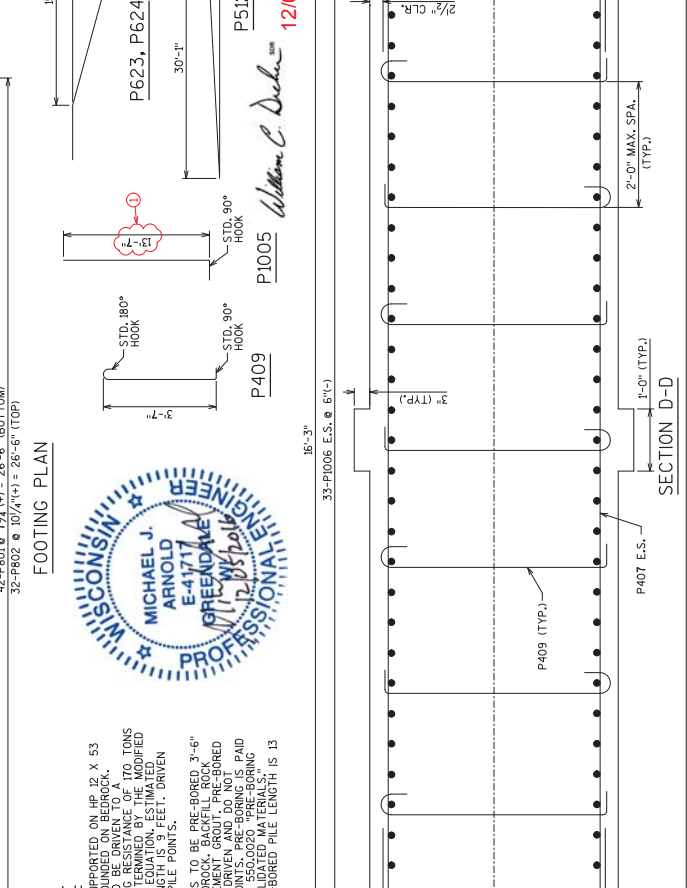
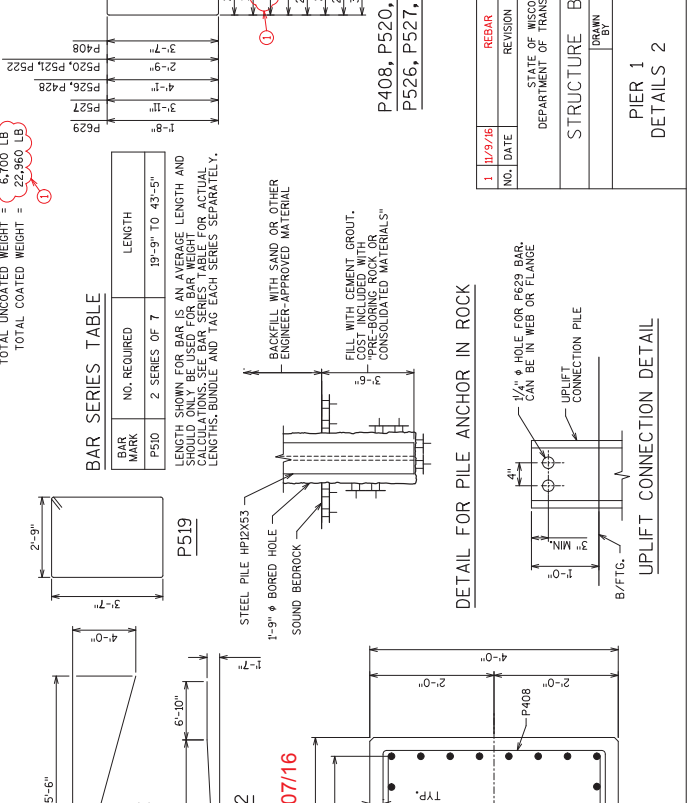
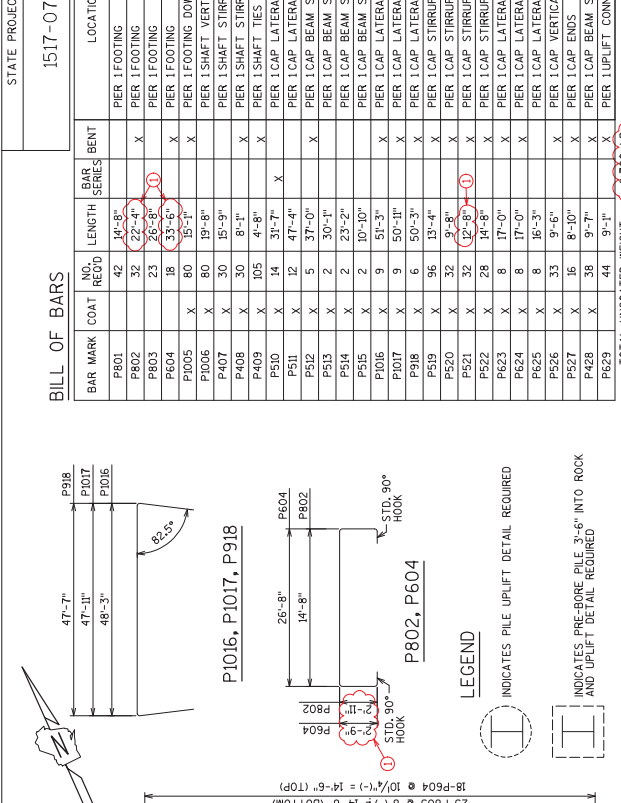
32-P802 @ 10'/(+/-) = 26'-6" (TOP)

35-P1006 E.S. @ 6'(-)

33-P1006 E.S. @ 6'(-)

7-P1006 @ 6" MAX SPA. (TYP.)

SECTION D-D



PROFESSIONAL ENGINEER  
 MICHAEL J. ARNOLD  
 E-4171  
 WISCONSIN  
 12/07/16

WISCONSIN PROFESSIONAL ENGINEER  
 MICHAEL J. ARNOLD  
 E-4171  
 12/07/16

WISCONSIN PROFESSIONAL ENGINEER  
 MICHAEL J. ARNOLD  
 E-4171  
 12/07/16

STATE PROJECT NUMBER  
**1517-07-80**

FILE: \\s1102k306\projects\Transportation\10 MIS 441\CD\Drawings\Structures-B-70-407\Sheets\70-80 Plan Set\20-B-70-407\_Pier3.dgn

DATE: 12/3/2016

PIER 3

DETAILS 1

SHEET 20 OF 47

661

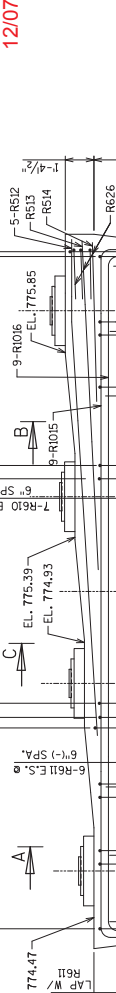
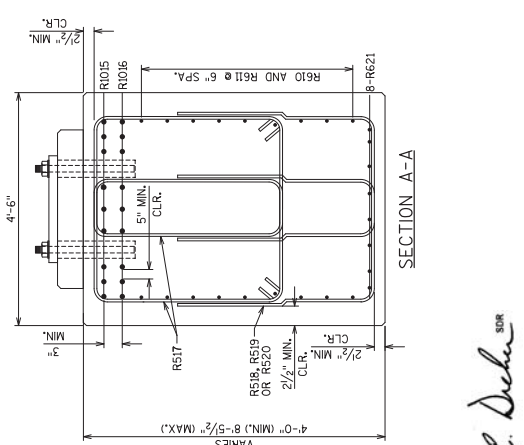
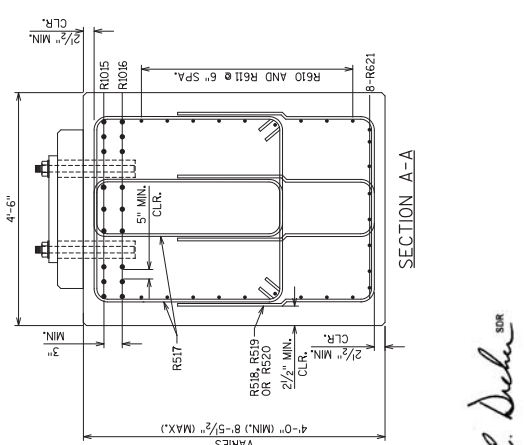
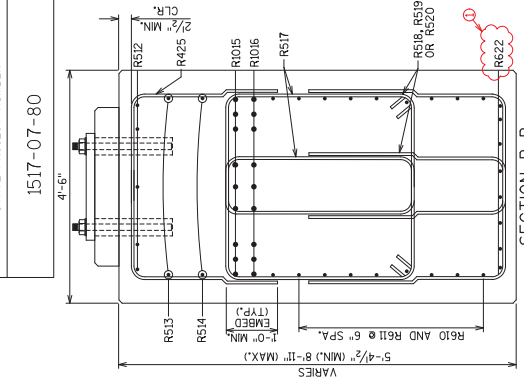
NO.	DATE	DESCRIPTION	BY
1	11/15/16	UPDATED BAR CALL OUTS	JDL

STATE OF WISCONSIN  
DEPARTMENT OF TRANSPORTATION

STRUCTURE B-70-407

DESIGN BY	DRAWN BY	CHECKED BY	JDL

PIER 3  
DETAILS 1

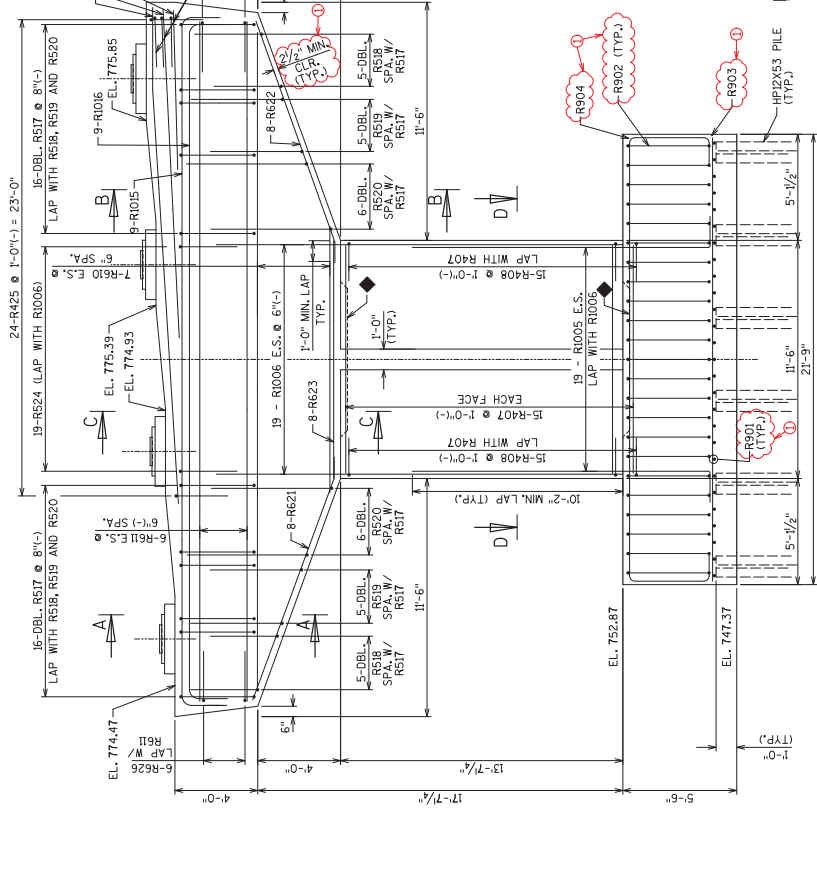
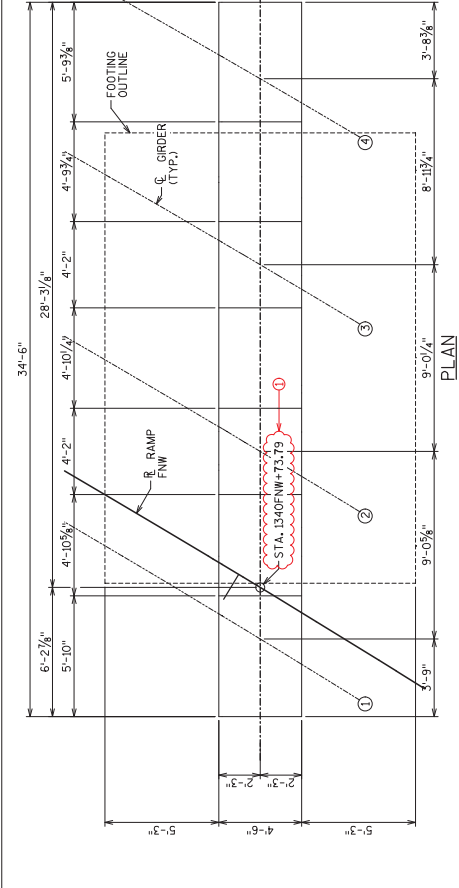


**Addendum No. 01  
ID 1517-07-80  
Revised Sheet 661  
December 8, 2016**

*William C. Decker*  
12/07/16



LEGEND  
◆ REVEAL CONST. JOINT FORMED BY BEVELED 4" X 1'-4" X 1'-6"





Addendum No. 01  
ID 1517-07-80  
Revised Sheet 662  
December 8, 2016

BILL OF BARS

BAR MARK	COAT	NO. REQ'D	LENGTH	BAR SERIES	BENT	LOCATION
R901		30	14'-8"			PIER 3 FOOTING
R902		26	24'-8"			PIER 3 FOOTING
R903		18	21'-5"			PIER 3 FOOTING
R904		16	30'-11"			PIER 3 FOOTING
R1005		48	16'-0"			PIER 3 SHAFT DOWNELS
R1006		48	19'-8"			PIER 3 SHAFT VERTICAL
R407		30	11'-0"			PIER 3 SHAFT STIRRUP
R408		30	9'-11"			PIER 3 SHAFT STIRRUP
R409		75	4'-8"			PIER 3 SHAFT TIES
R610		14	22'-1"			PIER 3 CAP LATERAL
R611		12	33'-1"			PIER 3 CAP LATERAL
R512		5	24'-1"			PIER 3 CAP BEAM SEAT LATERAL
R513		2	16'-0"			PIER 3 CAP BEAM SEAT LATERAL
R514		2	8'-0"			PIER 3 CAP BEAM SEAT LATERAL
R1015		9	36'-4"			PIER 3 CAP LATERAL
R1016		9	36'-4"			PIER 3 CAP LATERAL
R517		64	13'-4"			PIER 3 CAP STIRRUPS
R518		20	9'-4"			PIER 3 CAP STIRRUPS
R519		20	11'-5"			PIER 3 CAP STIRRUPS
R520		24	14'-6"			PIER 3 CAP STIRRUPS
R621		8	12'-6"			PIER 3 CAP LATERAL
R622		8	12'-6"			PIER 3 CAP LATERAL
R524		19	9'-6"			PIER 3 CAP LATERAL
R524		24	9'-7"			PIER 3 CAP LATERAL
R425		15	9'-9"			PIER 3 CAP BEAM SEAT VERTICAL
R626		40	9'-1"			PIER 3 CAP BEAM SEAT VERTICAL
R627		15	9'-9"			PIER 3 CAP UPLIFT CONNECTION

TOTAL WEIGHT COATED = (4,701.8)  
TOTAL WEIGHT UNCOATED = 7,220.18

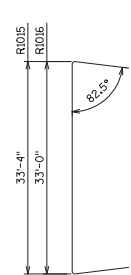
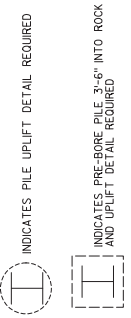
*William C. Decker*  
12/07/16

BAR SERIES TABLE

BAR MARK	NO. REQUIRED	LENGTH
R610	2	13'-10" TO 30'-4"

LENGTH SHOWN FOR BAR IS AN AVERAGE LENGTH AND SHOULD BE USED FOR CALCULATIONS. SEE BAR SERIES TABLE FOR ACTUAL LENGTHS, BUNDLE AND TAG EACH SERIES SEPARATELY.

LEGEND

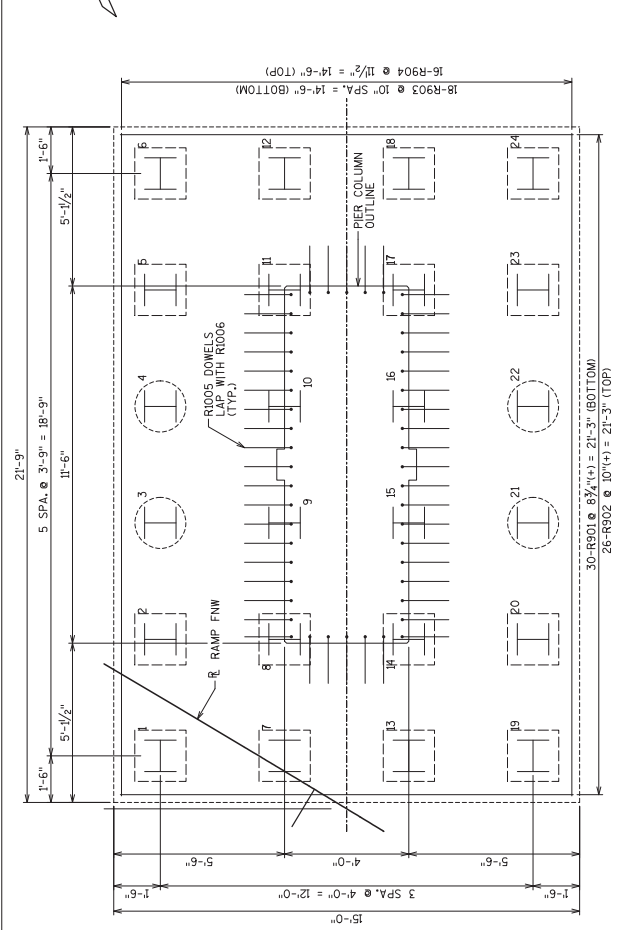


R1015, R1016

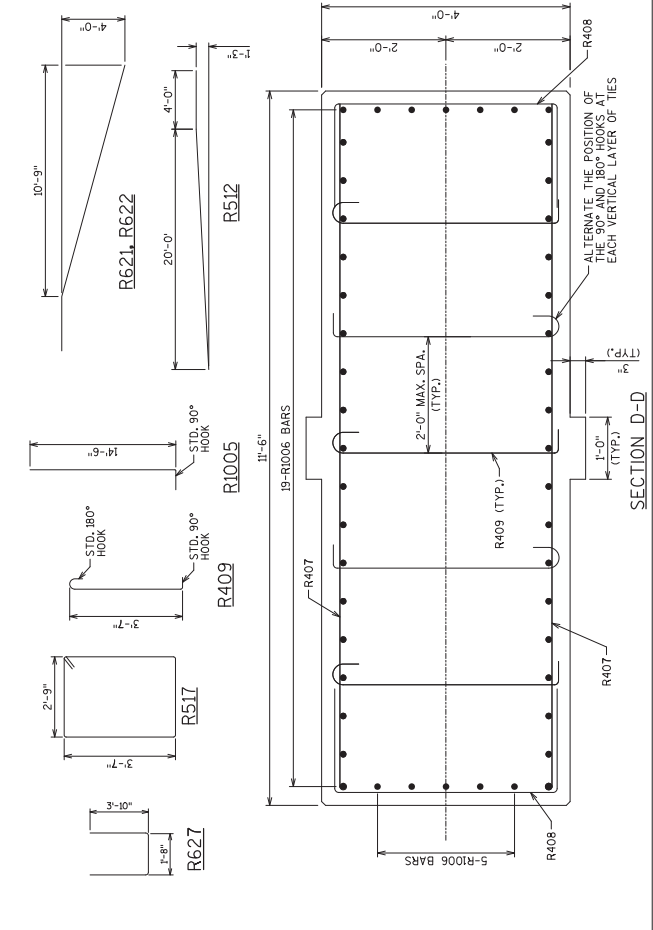


PILE NOTE

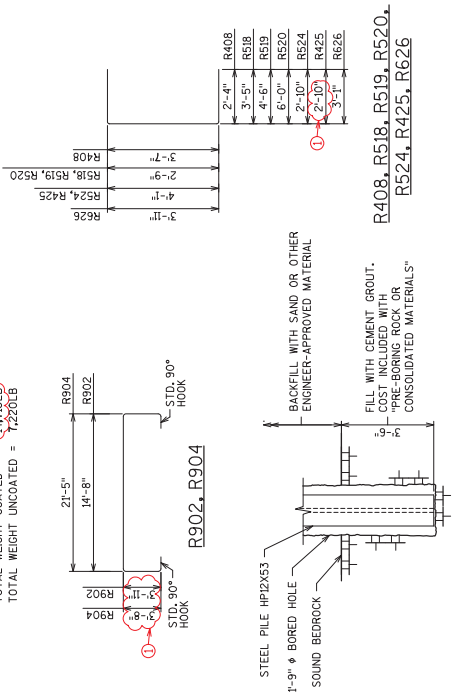
PIER 3 TO BE SUPPORTED ON HP 12 X 53 PILES TO BE DRIVEN TO A REQUIRED DRIVING RESISTANCE OF 220 TONS PER PILE AS DETERMINED BY THE MODIFIED GATES PILE LENGTH IS 16 FEET. DRIVEN PILES REQUIRE PILE POINTS.  
PRE-BORED PILES TO BE PRE-BORED 3'-6" INTO SOUND BEDROCK. BACKFILL ROCK SOCKET WITH CEMENT GROUT. PRE-BORED PILE POINTS. PRE-BORING IS PAID UNDER BID ITEM 550.0020 "PRE-BORING ROCK OR CONSOLIDATED MATERIALS." ESTIMATED PRE-BORED PILE LENGTH IS 20 FEET.



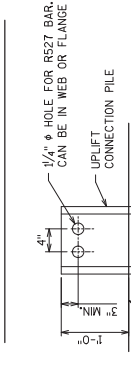
FOOTING PLAN



SECTION D-D



DETAIL FOR PILE ANCHOR IN ROCK



UPLIFT CONNECTION DETAIL

NO.	DATE	REVISION	BY
1	11/9/16	REBAR	JDL

STATE OF WISCONSIN  
DEPARTMENT OF TRANSPORTATION

STRUCTURE B-70-407

PIER 3  
DETAILS 2

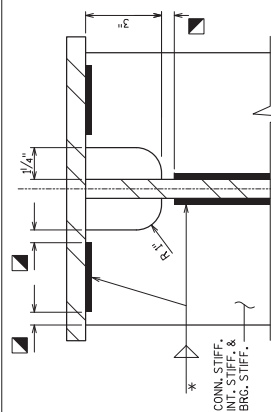
SHEET 21 OF 47  
662



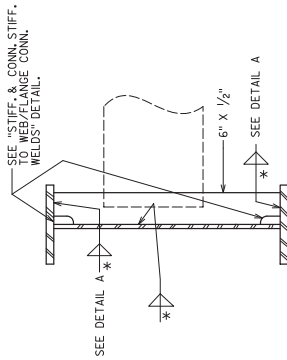
\* TABLE OF FILLET WELD SIZES

MATERIAL THICKNESS OF THICKER PART JOINED.	MIN. SIZE OF FILLET WELD
TO 1/2" INCLUSIVE	3/8"
OVER 1/2" TO 3/4"	1/2"
OVER 3/4" TO 1 1/2"	5/8"
OVER 1 1/2" TO 2 1/4"	3/4"
OVER 2 1/4" TO 6"	1 1/2"

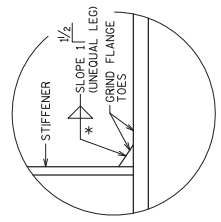
† EXCEPT THAT THE WELD SIZE SHALL NOT EXCEED THE THICKNESS OF THE THINNER PART JOINED.  
 Δ MIN. PASS SIZE IS 3/8"



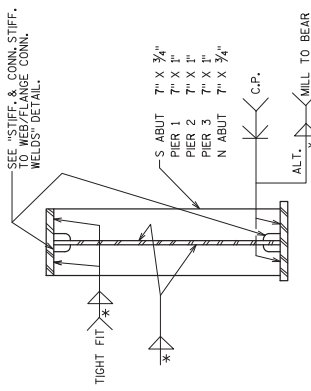
1/4" MIN., 1/2" MAX. TYP.  
 STIFF. & CONN. STIFF. TO WEB/FLANGE CONN. WELDS



CONNECTION STIFF. DETAILS



DETAIL A  
 CONNECTION STIFFENER  
 DETAIL OF TENSION FLANGE



BRG. & JACKING STIFF. DETAILS  
 TYP. AT ABUT. & PIER

NOTES

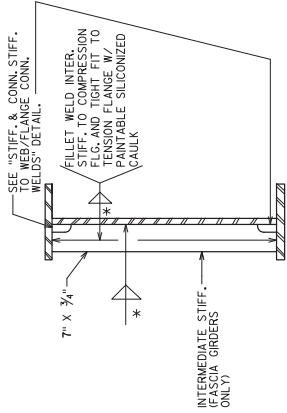
OPTIONAL WELDED SHOP SPLICES MAY BE USED FOR ALL FLANGE AND WEB JOINTS. OVER 1/2" LONG SPLICES SHALL BE SHOWN ON SHOP DRAWINGS AND WILL BE SUBJECT TO THE APPROVAL OF THE STRUCTURES DESIGN SECTION.

AT EXTERIOR GIRDERS PLACE INTERMEDIATE TRANSVERSE STIFFENERS ON INTERIOR FACE OF GIRDER.

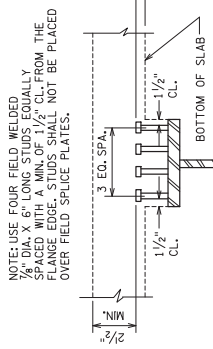
PRIOR TO STEEL BLAST, ALL FLAME CUT EDGES OF PLATES THAT ARE TO BE PAINTED SHALL BE GROUND OR PLANED TO REMOVE THE HARDENED SURFACE CAUSED BY THE FLAME, AND CORNERS CHAMFERED 1/8" MIN.

FOR CONNECTION STIFFENERS IN STRESS REVERSAL ZONES, FOLLOW "DETAIL A" FOR BOTH THE TOP AND BOTTOM FLANGES.

FOR INTERMEDIATE STIFFENERS IN STRESS REVERSAL ZONES, DIVIDE THE STRESS REVERSAL ZONES INTO EQUAL LENGTHS AND PLACE ONE STIFFENER TO THE COMPRESSION ZONE AND PROVIDING TIGHT FIT AT THE OPPOSITE FLANGE.



INTERMEDIATE & TRANSVERSE STIFF. DETAILS  
 (ALL GIRDERS)



SHEAR CONN. DETAILS



*William C. Decker*  
 12/07/16

Addendum No. 01  
 ID 1517-07-80  
 Revised Sheet 668  
 December 8, 2016

NO.	DATE	ADDED NOTES	BY
1	11/23/16		JDL

STATE OF WISCONSIN  
 DEPARTMENT OF TRANSPORTATION

STRUCTURE B-70-407

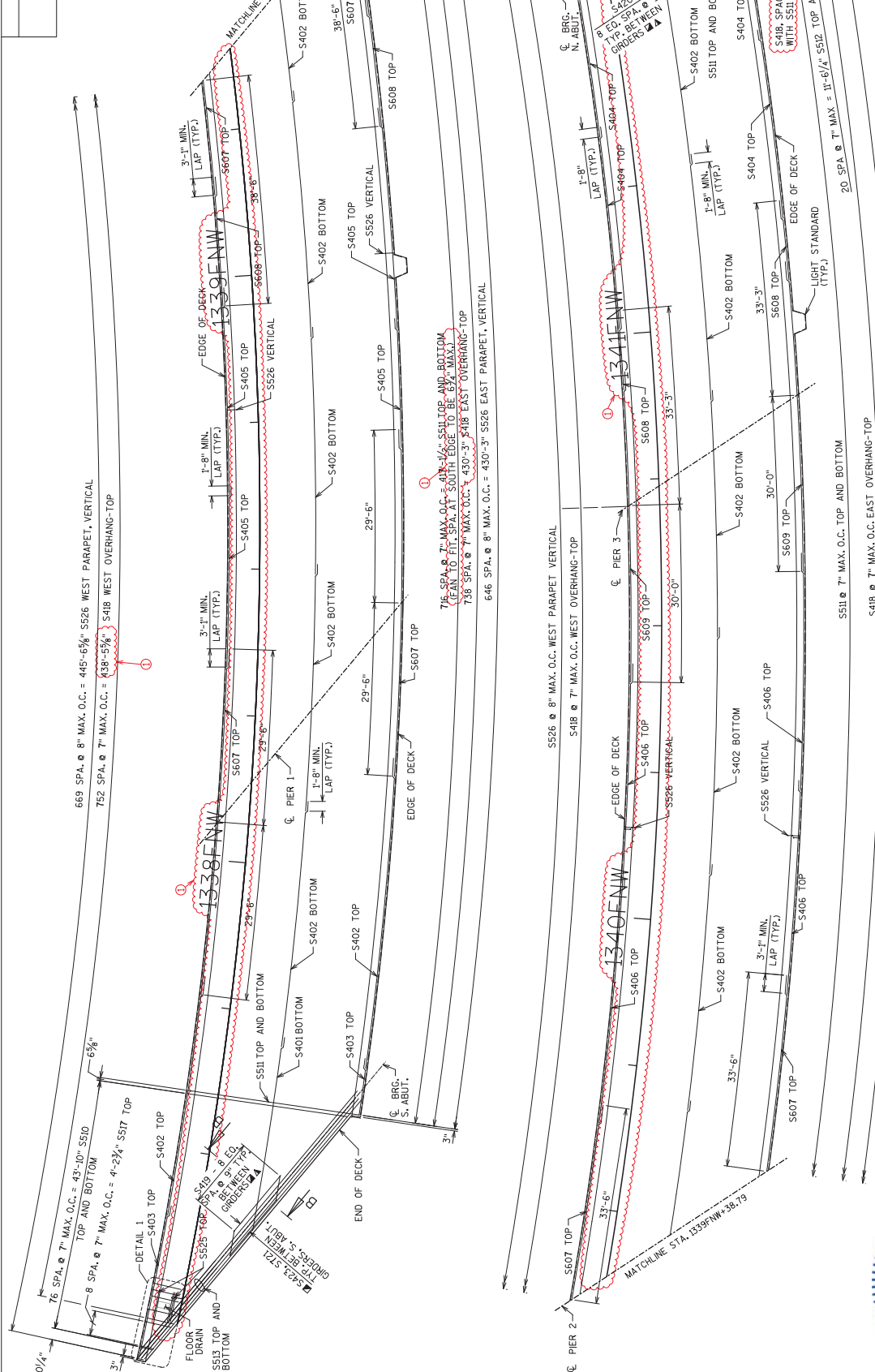
DESIGNED BY: [ ] DRAWN BY: [ ] CHECKED BY: [ ]

GIRDER DETAILS SHEET 27 OF 47

668

STATE PROJECT NUMBER  
 1517-07-80

STATE PROJECT NUMBER  
1517-07-80



NO.	DATE	ADDED	REF. LINE	UPDATED	DIMS	JDL
1	11/28/16					

STATE OF WISCONSIN  
DEPARTMENT OF TRANSPORTATION

STRUCTURE B-70-407  
DESIGNED BY: JDL  
CHECKED BY: DNU

SUPERSTRUCTURE  
PLAN 1

SHEET 31 OF 47  
672

**Addendum No. 01**  
**ID 1517-07-80**  
**Revised Sheet 672**  
**December 8, 2016**

DECK PLAN

*William C. Decker*  
 12/07/16



BILL OF BARS

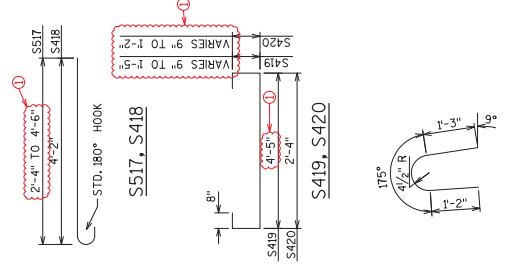
BAR MARK	NO. REQ'D	LENGTH	BENT	SERIES	LOCATION
S401	46	19'-11"	①	X	BOT. OF DECK - LONGIT.
S402	505	14'-3"		X	TOP AND BOT. OF DECK - LONGIT.
S403	45	22'-2"		X	TOP OF DECK - LONGIT.
S404	90	31'-11"		X	TOP OF DECK - LONGIT.
S406	90	33'-2"		X	TOP OF DECK - LONGIT.
S407	90	40'-0"		X	TOP OF DECK - LONGIT.
S607	90	59'-0"		X	TOP OF DECK - LONGIT.
S608	90	16'-1"		X	TOP OF DECK - LONGIT.
S609	45	50'-3"		X	TOP AND BOT. DECK - TRANS.
S510	154	15'-0"		X	TOP AND BOT. DECK - TRANS.
S511	1434	29'-6"		X	TOP AND BOT. DECK - TRANS.
S512	42	18'-6"		X	TOP AND BOT. DECK - TRANS.
S513	8	57'-6"		X	JOINT AT SOUTH ABUT
S514	4	32'-1"			JOINT AT NORTH ABUT
S515					NOT USED
S516					NOT USED
S517	9	41'-0"	X	X	OVERHANG BARS
S418	1492	4'-6"	①	X	OVERHANG BARS
S419	27	7'-7"	X	X	DIAPHRAGM VERT. SOUTH ABUT.
S420	27	5'-3"	X	X	DIAPHRAGM VERT. NORTH ABUT.
S721	15	12'-9"	X	X	DIAPHRAGM LONGIT. SOUTH ABUT
S622	15	6'-9"	X	X	DIAPHRAGM LONGIT. NORTH ABUT.
S423	6	12'-9"			DIAPHRAGM LONGIT. SOUTH ABUT
S424	6	6'-9"			DIAPHRAGM LONGIT. NORTH ABUT.
S525	4	5'-0"			FLOOR DRAIN
S526	137	4'-5"	X		PARAPET VERTICAL BARS

TOTAL WEIGHT = 95,320 LB

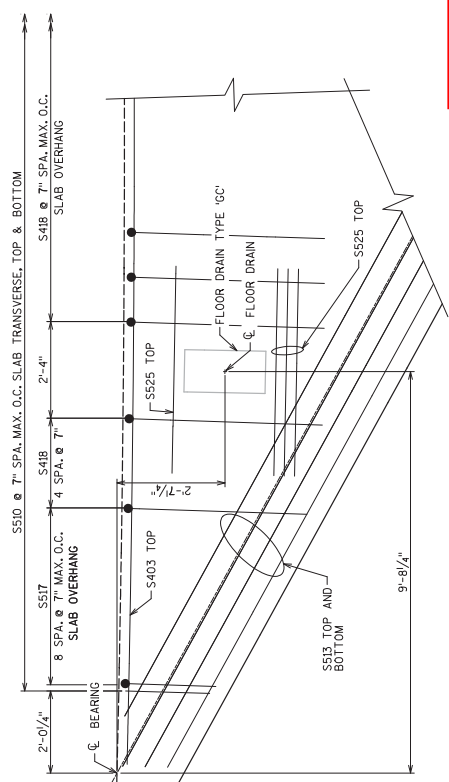
BAR SERIES TABLE

BAR MARK	NO. REQ'D	LENGTH
S401	1 SERIES OF 46	4'-7" TO 21'-7"
S403	1 SERIES OF 45	19'-0" TO 25'-4"
S510	2 SERIES OF 77	2'-3" TO 27'-9"
S512	2 SERIES OF 21	2'-3" TO 28'-9"
S517	1 SERIES OF 9	2'-1" TO 5'-1"
S419	3 SERIES OF 9	6'-1" TO 8'-3"
S420	3 SERIES OF 9	4'-10" TO 5'-8"

NOTES  
THE FIRST OR FIRST TWO DIGITS OF THE BAR MARK SIGNIFIES THE BAR SIZE.  
ALL BARS TO BE EPOXY COATED.  
PLACE LONGITUDINAL BARS PARALLEL TO THE CURVED DECK EDGE. PLACE TRANSVERSE BARS PERPENDICULAR TO THE GIRDERS.  
ALL SUPPORT ANGLES SHALL BE HOT-DIPPED GALVANIZED.  
ALL BOLTS, NUTS, AND WASHERS SHALL BE HOT-DIPPED GALVANIZED IN ACCORDANCE WITH ASTM A53 CLASS C. GALVANIZED NUTS SHALL BE HOT-DIPPED GALVANIZED IN ACCORDANCE WITH THE REQUIREMENTS OF ASTM A563. LUBRICANT AND THE REQUIREMENTS OF SUPPLEMENTARY REQUIREMENT S1 OF ASTM A563. LUBRICANT AND TEST FOR COATED NUTS.  
ALL DIAPHRAGM SUPPORT HARDWARE SHALL BE INCIDENTAL TO MODIFIED HIGH PERFORMANCE CONCRETE (HPC) MASONRY STRUCTURES.  
FOR SECTION B-B, SEE SHEET 31.  
FOR THE LOCATION OF DETAIL 1, SEE SHEET 31.  
FOR FLOOR DRAIN REINFORCEMENT, SEE DETAIL 1.



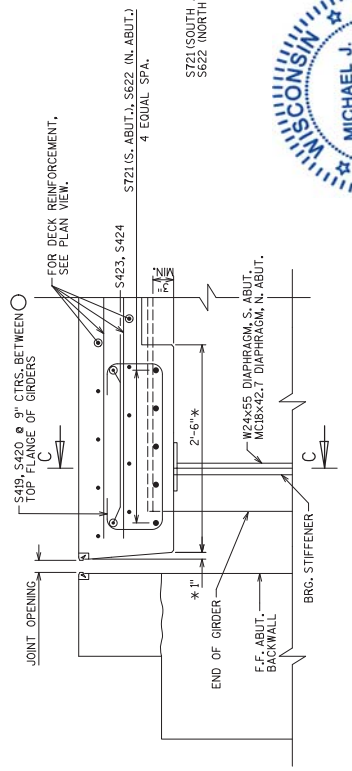
Addendum No. 01  
ID 1517-07-80  
Revised Sheet 675  
December 8, 2016



DETAIL 1

PARAPET AND PARAPET REINFORCEMENT NOT SHOWN FOR CLARITY

*William C. Decker*  
12/07/16

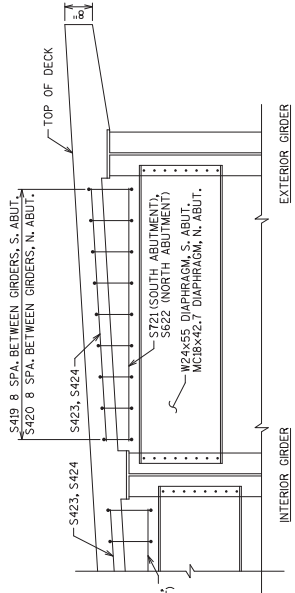


SECTION B-B

\* DIMENSIONS TAKEN NORMAL TO C-C ABUTMENT  
○ BARS PLACED PARALLEL TO GIRDERS. SPACING PERPENDICULAR TO GIRDERS.



SECTION C-C



NO.	DATE	ADDED NOTES: REBAR	REVISION	BY
1	11/9/16			JDL

STATE OF WISCONSIN  
DEPARTMENT OF TRANSPORTATION

STRUCTURE B-70-407  
DRAWN BY JDL  
CHECKED BY JDL

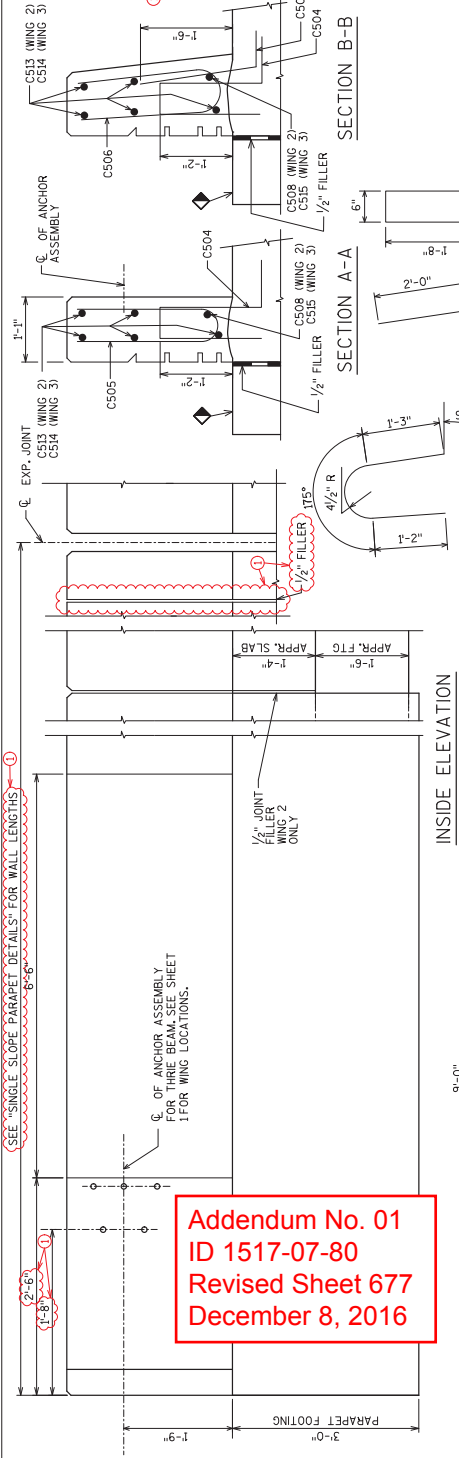
SHEET 34 OF 47  
SUPERSTRUCTURE DETAILS  
675

FILE: \\s102k306\projects\Transportation\1517-07-80\Drawings\Structures\B-70-407\Sheets\B-70-407-3255.dgn

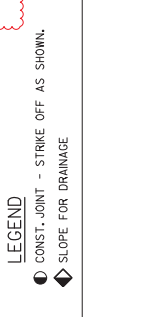
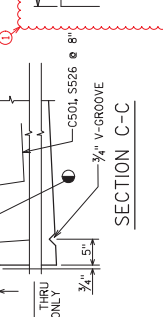
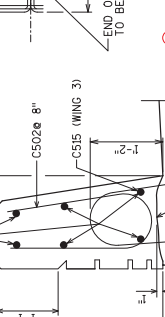
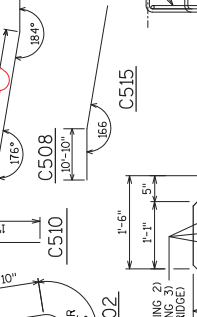
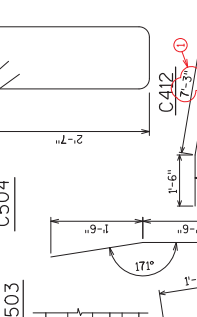
**BILL OF BARS**  
ALL BARS TO BE EPOXY COATED

BAR MARK	NO. REVD	LENGTH	BENT	LOCATION
C501	58	4'-5"	X	3255 - VERTICAL IN WINGS AND BRIDGE
C502	746	5'-0"	X	3255 - VERTICAL IN WING 3
C503	15	2'-9"	X	3255 - VERTICAL IN WING 3
C504	17	4'-4"	X	3255 - VERTICAL IN WING 3
C505	22	4'-9"	X	3255 - VERTICAL IN WING 3
C506	12	4'-10"	X	3255 - VERTICAL IN WINGS
C507	6	20'-2"	X	3255 - HORIZONTAL IN WING 2
C508	17	19'-2"	X	3255 - HORIZONTAL IN WING 2
C509	17	5'-8"	X	3255 - VERTICAL IN WING 2
C510	12	3'-0"	X	3255 - VERTICAL IN WING 2
C511	17	5'-8"	X	3255 - PARAPET FOOTING STIRRUPS
C512	17	8'-0"	X	3255 - PARAPET FOOTING STIRRUPS
C513	13	19'-3"	X	3255 - HORIZ. IN WING 2
C514	5	19'-10"	X	3255 - HORIZ. IN WING 2
C515	1	19'-5"	X	3255 - HORIZ. IN WING 3
C516	6	5'-2"	X	3255 - HORIZ. IN WING 3
C517	6	2'-2"	X	3255 - HORIZ. IN WING 2
C518	48	58'-3"	X	3255 - LONG. IN PARAPET ON BRIDGE

TOTAL WEIGHT = 8,230 LB



**NOTES**  
MIN. LAP FOR #5 BARS = 2'-11"



**LEGEND**  
CONST. JOINT - STRIKE OFF AS SHOWN.  
SLOPE FOR DRAINAGE

**OPTIONAL CONSTRUCTION JOINTS**  
IN THE PARAPETS MAY BE USED.  
RUN BAR REINF. THRU THE JOINT.  
LAP LONG. BARS A MIN. OF 1'-9".  
DEFINE CONST. JOINT WITH A 1/4" V-GROOVE.

**DETAIL OF ANCHOR ASSEMBLY**  
NOTE: HEX HEAD CAP SCREWS & WASHERS TO BE GALVANIZED IN ACCORDANCE WITH AASHTO M232 CLASS C.  
ASSEMBLY SHALL BE BID ITEM "ANCHOR ASSEMBLES FOR STEEL PLATE BEAM GUARD", EACH.

**SECTION C-C**  
SECTION THRU BRIDGE ONLY

**SECTION D-D**  
SECTION THRU BRIDGE ONLY

**Addendum No. 01**  
**ID 1517-07-80**  
**Revised Sheet 677**  
**December 8, 2016**

**PROFESSIONAL ENGINEER**  
MICHAEL J. ARNOLD  
E-41717  
OFFENDANT  
12/07/16  
*William C. Decker*  
12/07/16

**LEGEND**  
CONST. JOINT - STRIKE OFF AS SHOWN.  
SLOPE FOR DRAINAGE

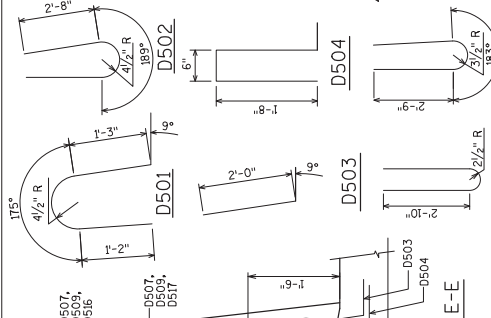
**OUTSIDE ELEVATION**  
(WING 3 SHOWN, SEE SHEET "SINGLE SLOPE PARAPET DETAILS" FOR WING 2)

**LEGEND**  
CONST. JOINT - STRIKE OFF AS SHOWN.  
SLOPE FOR DRAINAGE

**BILL OF BARS**  
ALL BARS TO BE EPOXY COATED

BAR MARK	BAR NO. IN SERIES	LENGTH	BENT	LOCATION
D501	42	4'-5"	X	42SS - VERTICAL IN WINGS
D502	69	6'-8"	X	42SS - VERT. IN WINGS AND ON BRIDGE
D503	23	2'-9"	X	42SS - VERTICAL IN WINGS
D504	28	4'-4"	X	42SS - VERTICAL IN WINGS
D505	10	6'-5"	X	42SS - VERTICAL IN WINGS
D506	12	6'-6"	X	42SS - VERTICAL IN WINGS
D507	1	19'-2"	X	42SS - HORIZONTAL IN WING 4
D508	1	19'-2"	X	42SS - HORIZONTAL IN WING 4
D509	4	8'-0"	X	42SS - PARAPET FTG. STRIRUPS WING 4
D410	8	2'-5"	X	42SS - PARAPET FOOTING HORIZ. WING 4
D512	8	2'-5"	X	42SS - HORIZONTAL IN WING 4
D513	6	5'-8"	X	42SS - VERTICAL IN WING 4
D514	8	2'-2"	X	42SS - HORIZONTAL IN WING 4
D515	X	5'-5"	X	42SS - VERTICAL IN WING 1
D517	5	16'-10"	X	42SS - HORIZONTAL IN WING 1
D518	8	4'-7"	X	42SS - HORIZONTAL IN WING 1
D519	1	16'-11"	X	42SS - HORIZ. IN WING 1
D520	64	56'-4"	X	42SS - HORIZ. PARAPET ON BRIDGE

TOTAL WEIGHT = 3690 LB

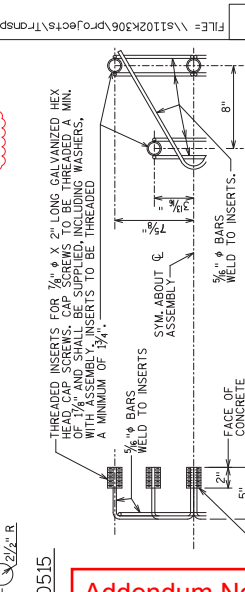
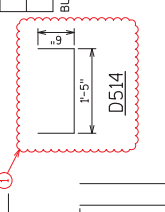


LENGTH SHOWN FOR BAR IS AN AVERAGE LENGTH AND NOT A CALCULATION. SEE BAR SERIES TABLE FOR ACTUAL LENGTHS.

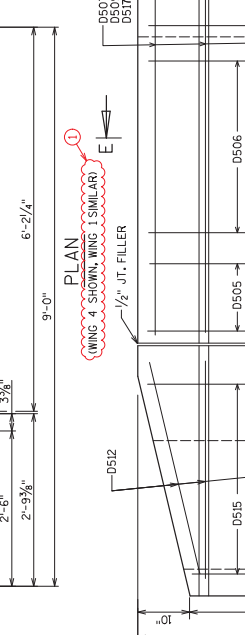
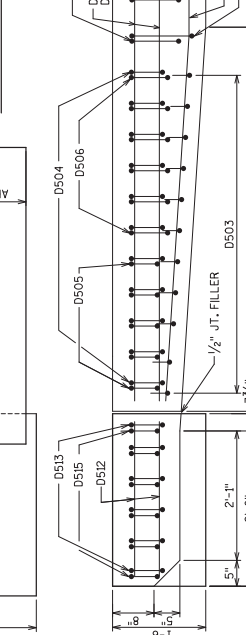
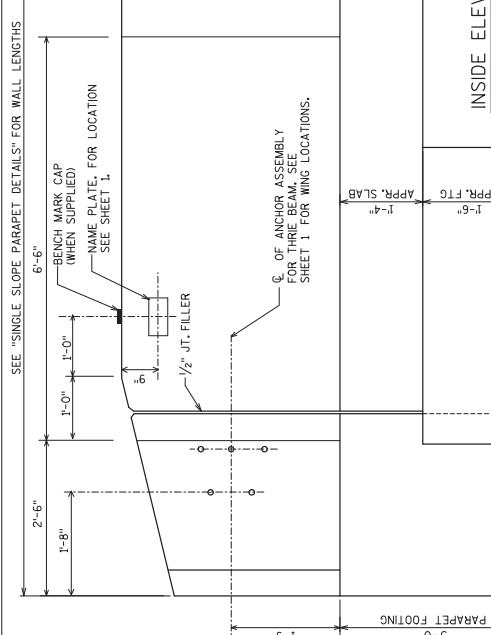
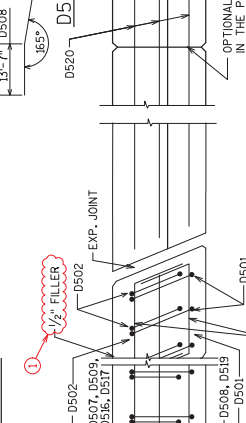
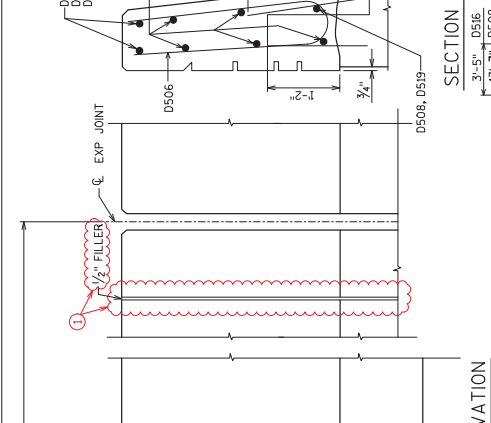
**BAR SERIES TABLE**

BAR MARK	NO. REOD	LENGTH
D515	2	4'-9" TO 6'-1"

BUNDLE AND TAG EACH SERIES SEPARATELY.



**DETAIL OF ANCHOR ASSEMBLY**  
NOTES: HEX HEAD CAP SCREWS & WASHERS TO BE GALVANIZED IN ACCORDANCE WITH AASHTO M332 CLASS C.  
ASSEMBLY SHALL BE BID ITEM "ANCHOR ASSEMBLIES FOR STEEL BEAM GIRDERS", EACH.



**Addendum No. 01**  
ID 1517-07-80  
Revised Sheet 678  
December 8, 2016

**SECTION D-D**

**SECTION E-E**

**PLAN**  
(WING 4 SHOWN, WING 1 SIMILAR)

**INSIDE ELEVATION**

**OUTSIDE ELEVATION**  
(WING 4 SHOWN, WING 1 SIMILAR, FOR MORE DETAILS SEE SHEET "SINGLE SLOPE PARAPET DETAILS")

**NOTES**  
MIN. LAP FOR #5 BARS = 2'-11"

**LEGEND**  
CONST. JOINT - STRIKE OFF AS SHOWN.

**MISCONSIL ENGINEER**  
MICHAEL J. ARNOLD  
E-4771  
GREENSBORO, NC 27409  
PROFESSIONAL ENGINEER  
12/07/16

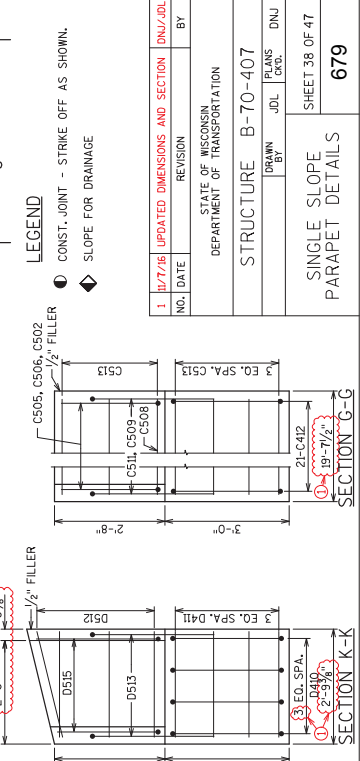
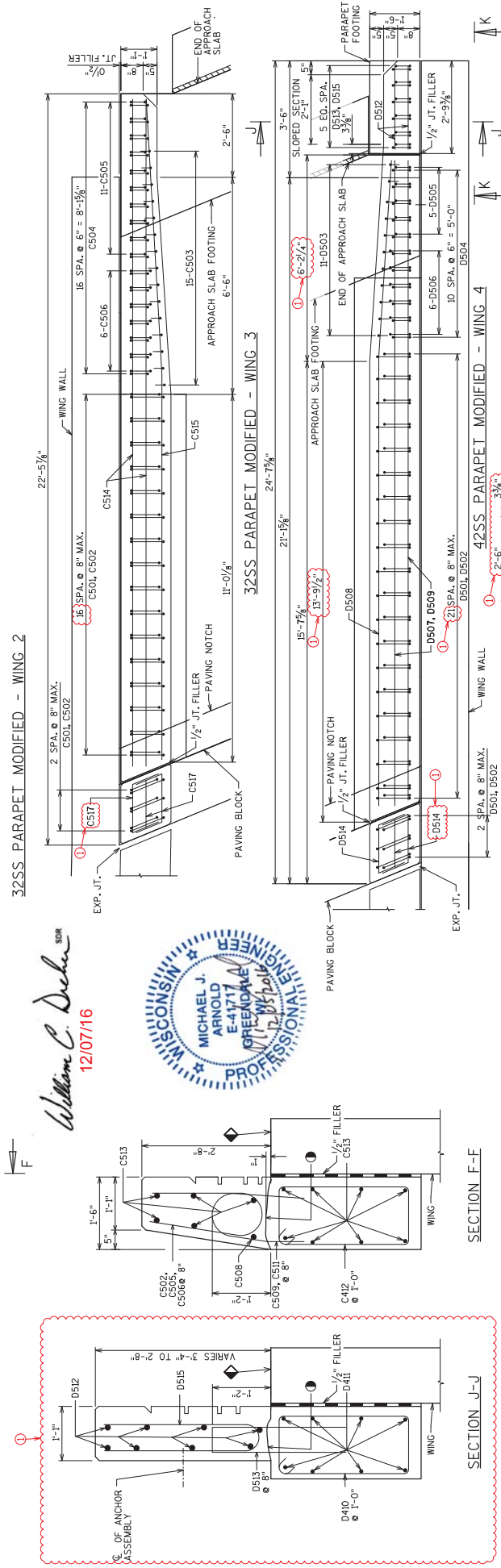
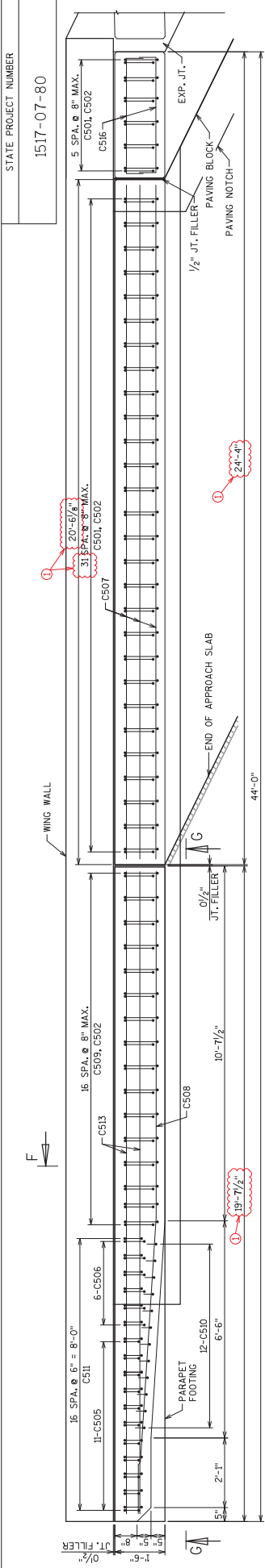
**STATE OF MISSISSIPPI**  
DEPARTMENT OF TRANSPORTATION  
STRUCTURE B-70-407  
SINGLE SLOPE PARAPET #2SS  
MODIFIED  
SHEET 37 OF 47  
678

**WILLIAM C. DeLor**  
12/07/16

**DETAIL OF ANCHOR ASSEMBLY**  
NOTES: HEX HEAD CAP SCREWS & WASHERS TO BE GALVANIZED IN ACCORDANCE WITH AASHTO M332 CLASS C.  
ASSEMBLY SHALL BE BID ITEM "ANCHOR ASSEMBLIES FOR STEEL BEAM GIRDERS", EACH.

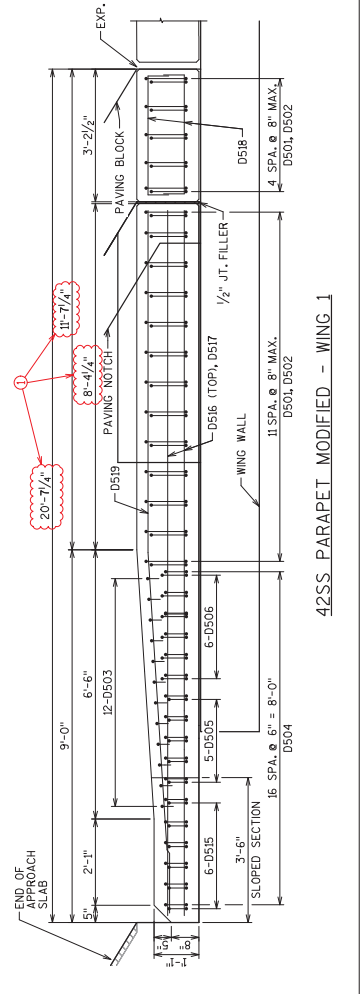
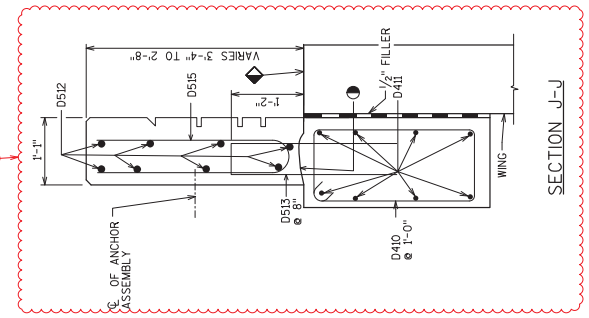
1 11/7/16 JT-FILLER NOTE, LABELS, BARS  
NO. DATE REVISION BY





Addendum No. 01  
ID 1517-07-80  
Revised Sheet 679  
December 8, 2016

*William C. Decker*  
12/07/16  
MICHIGAN PROFESSIONAL ENGINEER  
MICHAEL J. ARNOLD  
E-41717  
GREENDALE  
WISCONSIN



NO.	DATE	REVISION	BY	DNU/JDL
1	11/7/16	UPDATED DIMENSIONS AND SECTION	DNU/JDL	

STATE OF WISCONSIN  
DEPARTMENT OF TRANSPORTATION

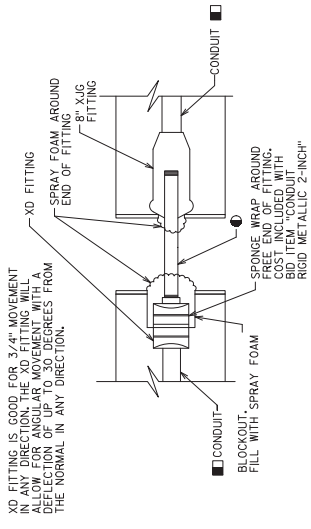
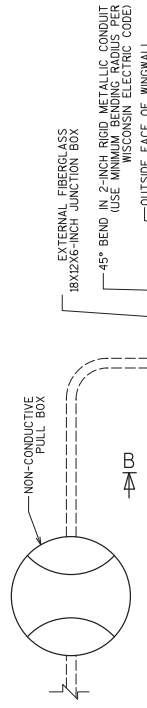
STRUCTURE B-70-407

ISSUED BY: JDL  
CHECKED BY: PKC  
DNU

SHEET 38 OF 47



STATE PROJECT NUMBER  
1517-07-80

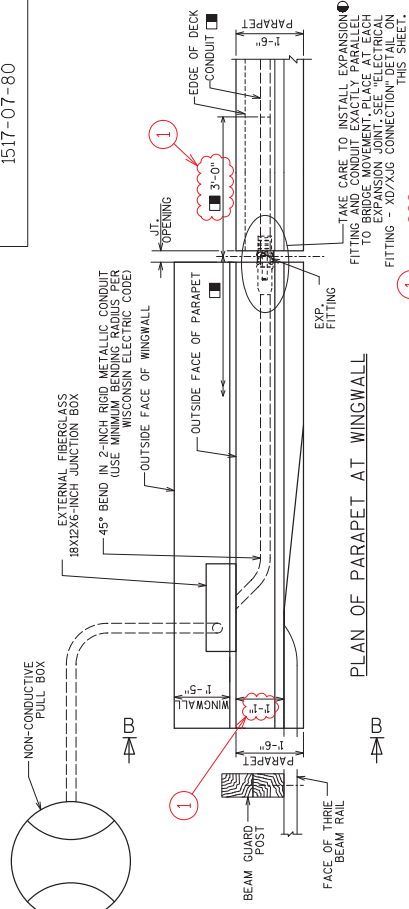


ELECTRICAL FITTING - XD/XJG CONNECTION

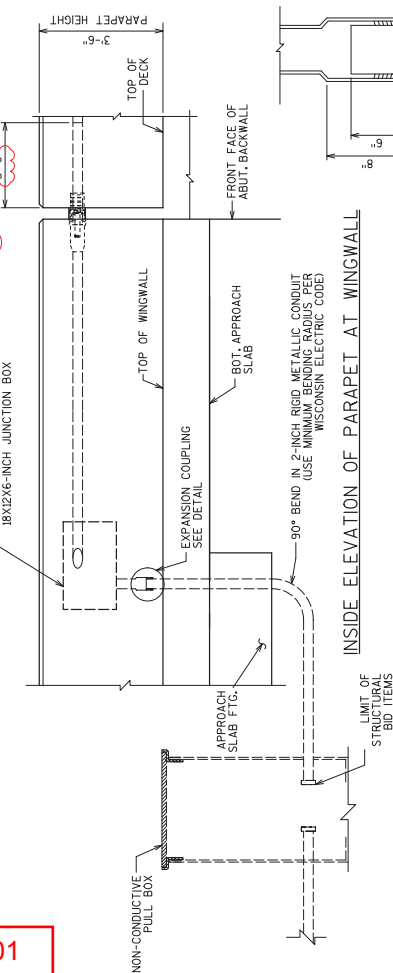
- 1 POSITION MOVABLE END OF CONDUIT INSIDE EXPANSION FITTING SUCH THAT IT WILL HAVE 1/2" MINIMUM CLEARANCE FOR MOVEMENT (E.P. SHALL PROVIDE FOR MOVEMENT). TAKE CARE TO INSTALL EXPANSION FITTING MOVEMENT EXACTLY PARALLEL TO BRIDGE MOVEMENT.
- 2 USE RIGID METALLIC CONDUIT TO NEAREST EXPANSION BOX OFF BRIDGE AND 3'-0" ONTO BRIDGE.

Addendum No. 01  
ID 1517-07-80  
Revised Sheet 680  
December 8, 2016

*William C. Decker*  
12/07/16



PLAN OF PARAPET AT WINGWALL

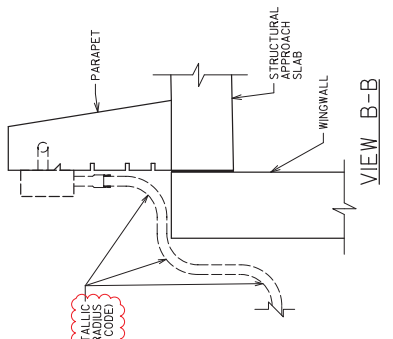


INSIDE ELEVATION OF PARAPET AT WINGWALL



NOTES  
FOR LIGHT STANDARD DETAILS AND LOCATIONS SEE SHEET "LIGHT STANDARD".

- 1 BID ITEMS SHALL BE:  
"CONDUIT RIGID NONMETALLIC SCHEDULE 40 2-INCH"  
"CONDUIT RIGID METALLIC 2-INCH"  
"JUNCTION BOXES 18X12X6-INCH, EACH"  
"ANCHOR ASSEMBLIES LIGHT POLES ON STRUCTURE, EACH."  
SEE APPROVED MATERIAL LIST.
- 2 APPROVED MANUFACTURER OR EQUIVALENT - EXPANSION FITTING: O-Z/GEENEY TYPE AX-8-200 AND BONDING JUMPER (8" TOTAL CONDUIT MOVEMENT). EXPANSION FITTINGS, ANGLES AND ADAPTER FITTINGS TO BE INCIDENTAL TO "CONDUIT RIGID METALLIC 2-INCH".
- 3 WHEN CONNECTING NONMETALLIC CONDUIT TO METALLIC CONDUIT, ONLY ADAPTER FITTINGS UL-OR-NRTL LISTED FOR ELECTRICAL USE SHALL BE USED. INSTALL GROUNDING BUSHINGS ON ALL RIGID METALLIC ELECTRICAL CONDUITS THAT TERMINATE IN JUNCTION OR PULL BOXES.
- 4 FOR LENGTH OF EXPECTED MOVEMENT, SEE TEMPERATURE TABLE ON SHEET "STRIP SEAL EXPANSION DEVICE".



90° BEND IN 2-INCH RIGID METALLIC CONDUIT (USE MINIMUM BENDING RADIUS PER WISCONSIN ELECTRIC CODE)



1	11/23/16	UPDATED NOTES, DIM. ADD CALLOUT	JDL
NO.	DATE	REVISION	BY
STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION			
STRUCTURE B-70-407			
ISSUED BY JDL			
PLANS FILED DNU			
SHEET 39 OF 47			
680			
42SS PARAPET ELECTRICAL			

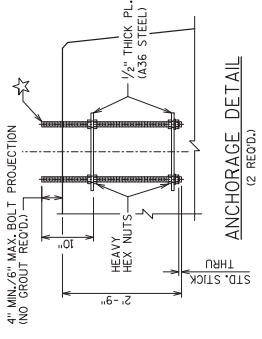
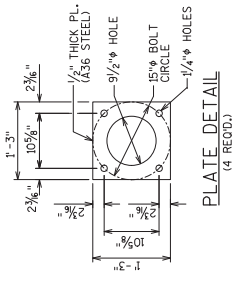
STATE PROJECT NUMBER  
1517-07-80

- LEGEND**
- CONSTR. JT. STRIKE OFF AS SHOWN
  - ▲ CUT OUT  $\pm$  1" OF GASKET AT BOTTOM OF JUNCTION BOX COVER TO ALLOW FOR DRAINAGE.
  - ▽ LOCATION OF CONDUIT IS MEASURED FROM OUTSIDE EDGE OF JUNCTION BOX.
  - THESE BARS ARE IN ADDITION TO STANDARD TRANSVERSE BARS IN DECK.
  - \* SEE SINGLE SLOPE PARAPET SHEET FOR ADDITIONAL BAR STEEL DETAILS.
  - ☆ 1"  $\times$  3" THREADED ANCHOR BOLTS, ASTM A449 OR AASHTO M 314-90 GR 55, HOT DIP ASTM A563, CLASS C, UPPER 8" (MIN) FROM FINISH DECK SURFACE & ON SHEETS, FOR PROPER FIT AFTER GALVANIZING. PROVIDE DOUBLE FLAT WASHERS & NUTS.

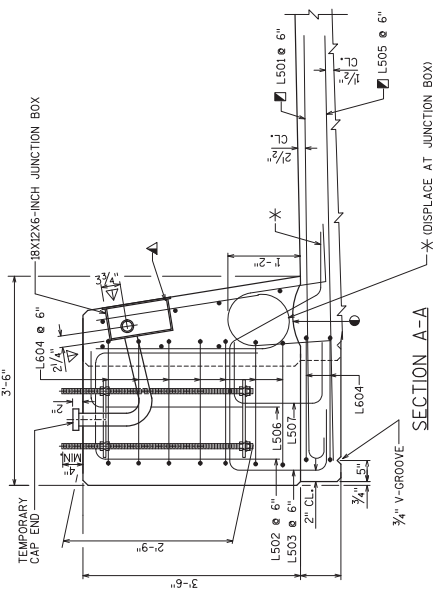
FOR LENGTH OF EXPECTED MOVEMENT SEE TEMPERATURE TABLE ON SHEET "STRIP SEAL EXPANSION DEVICE".  
SEE SHEET "4255 PARAPET ELECTRICAL DETAIL" FOR NOTES.

**BILL OF BARS**

BAR MARK	NO. OF CO'S	NO. RECD.	LENGTH	BAR SERIES	LOCATION
L501	X	20	8'-7"	X	DECK TRANSV. $\phi$ LIGHT STD.
L502	X	8	7'-8"	X	PARAPET VERT. $\phi$ LIGHT STD.
L503	X	8	7'-0"	X	PARAPET VERT. $\phi$ LIGHT STD.
L604	X	18	10'-0"	X	PARAPET HORIZ. $\phi$ LIGHT STD.
L505	X	20	8'-0"	X	DECK TRANSV. $\phi$ LIGHT STD.
L506	X	4	4'-0"	X	PARAPET VERT. $\phi$ LIGHT STD.
L507	X	4	3'-4"	X	PARAPET VERT. $\phi$ LIGHT STD.

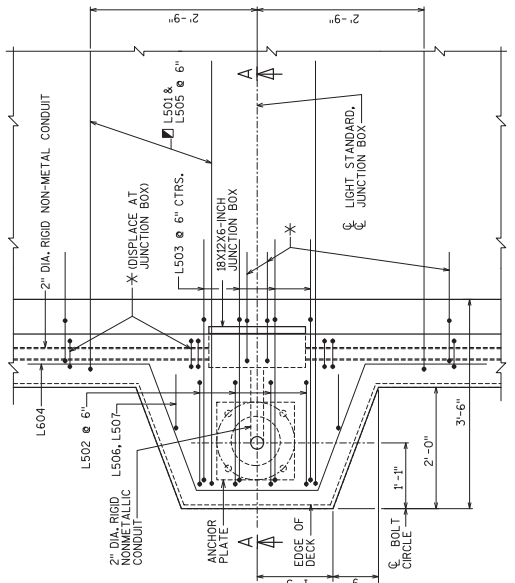


Addendum No. 01  
ID 1517-07-80  
Revised Sheet 681  
December 8, 2016

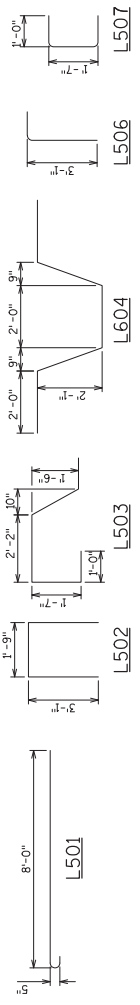


**LIGHT STD. & JUNCTION BOX LOCATIONS**

- LIGHT STD. & JUNCTION BOX STA. 1339RNM+00.00 RT STA. 1349RNM+00.00 RT
- 18X246-INCH JUNCTION BOX STA. 1340RNM+00.00 RT



**PLAN AT LIGHT STANDARD**



*William C. Decker*  
12/07/16

NO. DATE REVISION BY  
1 11/22/16 UPDATED STATIONS, ADDED NOTE JDL

STATE OF WISCONSIN  
DEPARTMENT OF TRANSPORTATION  
STRUCTURE B-70-407  
DESIGNED BY JDL  
CHECKED BY JDL  
DNU  
SHEET 40 OF 47  
681

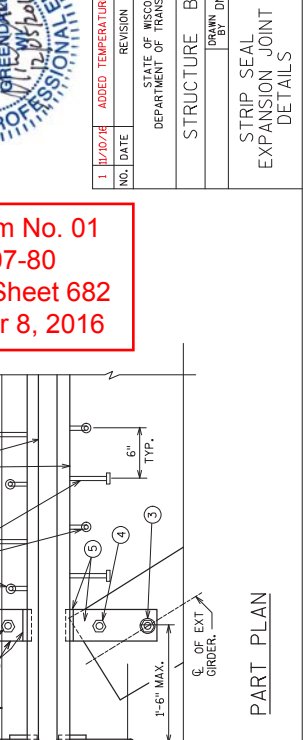
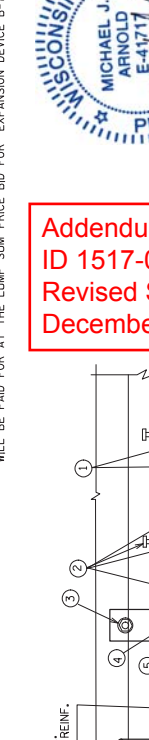
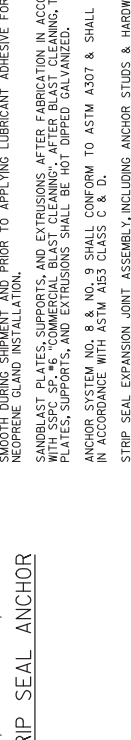
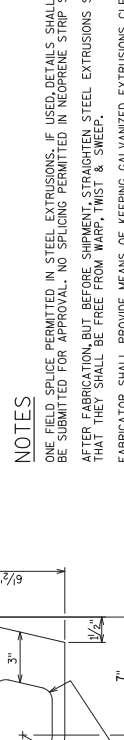
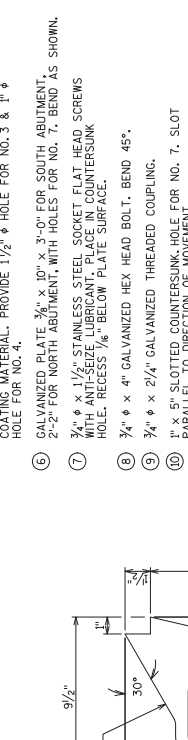
▲ TEMPERATURE TABLE

SHADED CHECK UNDER TEMPERATURE	FINAL JOINT OPENING (INJ) S. ABUT.	FINAL JOINT OPENING (INJ) N. ABUT.
85°	1/2"	1 3/4"
75°	1/2"	1 3/4"
65°	1 3/4"	1 3/4"
55°	1 3/4"	2 1/4"
45°	1 3/4"	2 1/4"
35°	1 7/8"	2 3/4"
25°	1 7/8"	2 3/4"
15°	2"	2 3/4"
5°	2 1/8"	2 7/8"

A SMALL JOINT OPENING DUE TO A HIGH TEMPERATURE AT THE TIME OF CONSTRUCTION MAY REQUIRE NEOPRENE STRIP SEAL. A TIME TO SETTING THE EXPANSION JOINT.

LEGEND

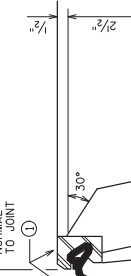
- NEOPRENE STRIP SEAL 1/4" THICK AT SOUTH ABUTMENT, 4-INCH AT NORTH ABUTMENT & STEEL EXTRUSIONS. SEE THE TEMPERATURE TABLE GIVEN ON THIS SHEET. JT. OPENINGS GIVEN NORMAL TO JOINT.
- STUDS 3/4" x 6" LONG AT 6" ALTERNATE CENTERS. WELD TO EXTRUSIONS & BEND AS SHOWN AFTER WELDING.
- 1/2" THICK ANCHOR PLATE WITH 3/4" ROD (OR ALTERNATE STRIP SEAL ANCHOR), WELD ROD TO ANCHOR PLATE, WELD ANCHOR PLATE TO NO. 1 AT 1'-6" CENTERS BETWEEN GROERS.
- 3/4" x 3/4" x 3/4" THREADED ROD WITH 2 NUTS, PLATES, AND WASHERS. WELD THREADED ROD TO TOP FLANGE OR ATTACH BY BOLTING THRU FLANGE. ON ABUTMENT SIDE GROUT THREADED ROD INTO FIELD DRILLED HOLES IN ABUTMENT BACKWALL AS SHOWN.
- 3/4" x 3/4" THREADED ROD WITH NUT. TACK WELD NUT TO NO. 5.
- FABRICATE SUPPORT FROM 3" x 1/2" BAR AS SHOWN OR EQUIVALENT. ONE PER GROER. PREP. SHOP OR FIELD WELD TO NO. 1. IF FIELD WELDED, COVER WELDED AREAS WITH EPOXY-COATING MATERIAL. PROVIDE 1/2" x 1/2" HOLE FOR NO. 3 & 1" x 1" HOLE FOR NO. 4.
- GALVANIZED PLATE 3/4" x 10" x 3'-0" FOR SOUTH ABUTMENT, 2'-2" FOR NORTH ABUTMENT, WITH HOLES FOR NO. 7. BEND AS SHOWN.
- 3/4" x 1/2" x 1/2" STAINLESS STEEL SOCKET FLAT HEAD SCREWS WITH ANTI-SEIZE LUBRICANT. PLACE IN COUNTERSUNK HOLE. RECESS 1/8" BELOW PLATE SURFACE.
- 3/4" x 4" GALVANIZED HEX HEAD BOLT. BEND 45°.
- 3/4" x 5" SLOTTED COUNTERSUNK HOLE FOR NO. 7. SLOT PARALLEL TO DIRECTION OF MOVEMENT.



NOTES

- ONE FIELD SPLICE PERMITTED IN STEEL EXTRUSIONS. IF USED, DETAILS SHALL BE SUBMITTED FOR APPROVAL. NO SPLICING PERMITTED IN NEOPRENE STRIP SEAL. AFTER FABRICATION, BUT BEFORE SHIPMENT, STRAIGHTEN STEEL EXTRUSIONS SUCH THAT THEY SHALL BE FREE FROM WARP, TWIST & SWEEP.
- FABRICATOR SHALL PROVIDE MEANS OF KEEPING GALVANIZED EXTRUSIONS CLEAN & SMOOTH DURING SHIPMENT AND PRIOR TO APPLYING LUBRICANT ADHESIVE FOR NEOPRENE GLAND INSTALLATION.
- SANDBLAST PLATES, SUPPORTS, AND EXTRUSIONS AFTER FABRICATION IN ACCORDANCE WITH SSPC SP. #6 "COMMERCIAL BLAST CLEANING". AFTER BLAST CLEANING, THE PLATES, SUPPORTS, AND EXTRUSIONS SHALL BE HOT DIPPED GALVANIZED.
- ANCHOR SYSTEM NO. 8 & NO. 9 SHALL CONFORM TO ASTM A307 & SHALL BE GALVANIZED IN ACCORDANCE WITH ASTM A653 CLASS C & D.
- STRIP SEAL EXPANSION JOINT ASSEMBLY, INCLUDING ANCHOR STUDS & HARDWARE WILL BE PAID FOR AT THE LUMP SUM PRICE BID FOR "EXPANSION DEVICE B-70-407".

*William C. Decker*  
12/07/16



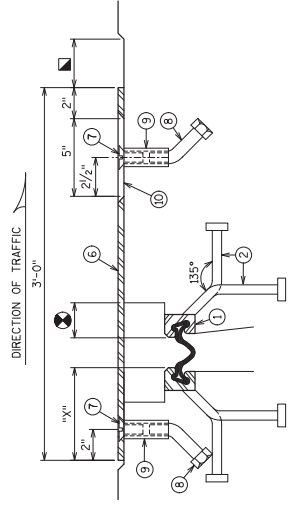
ADD/REV	DATE	REVISION	BY
1		ADDED TEMPERATURE TABLE	DNU

STATE OF WISCONSIN  
DEPARTMENT OF TRANSPORTATION

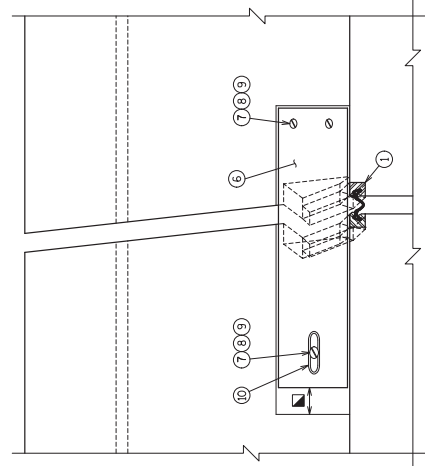
STRUCTURE B-70-407  
DESIGNED BY: [blank] PLANS CHECKED BY: [blank] JDL

STRIP SEAL EXPANSION JOINT DETAILS  
SHEET 41 OF 47  
682

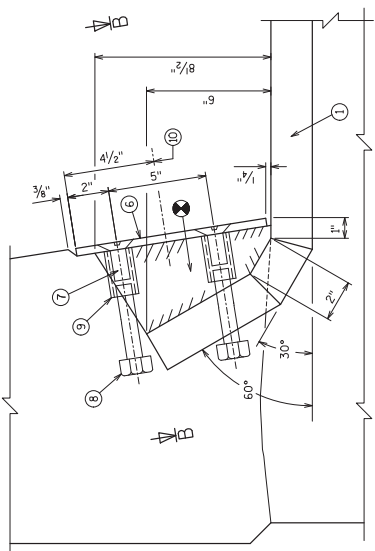
STATE PROJECT NUMBER  
1517-07-80



SECTION B-B  
"X" = 8" (SOUTH ABUTMENT)  
6 1/2" (NORTH ABUTMENT)

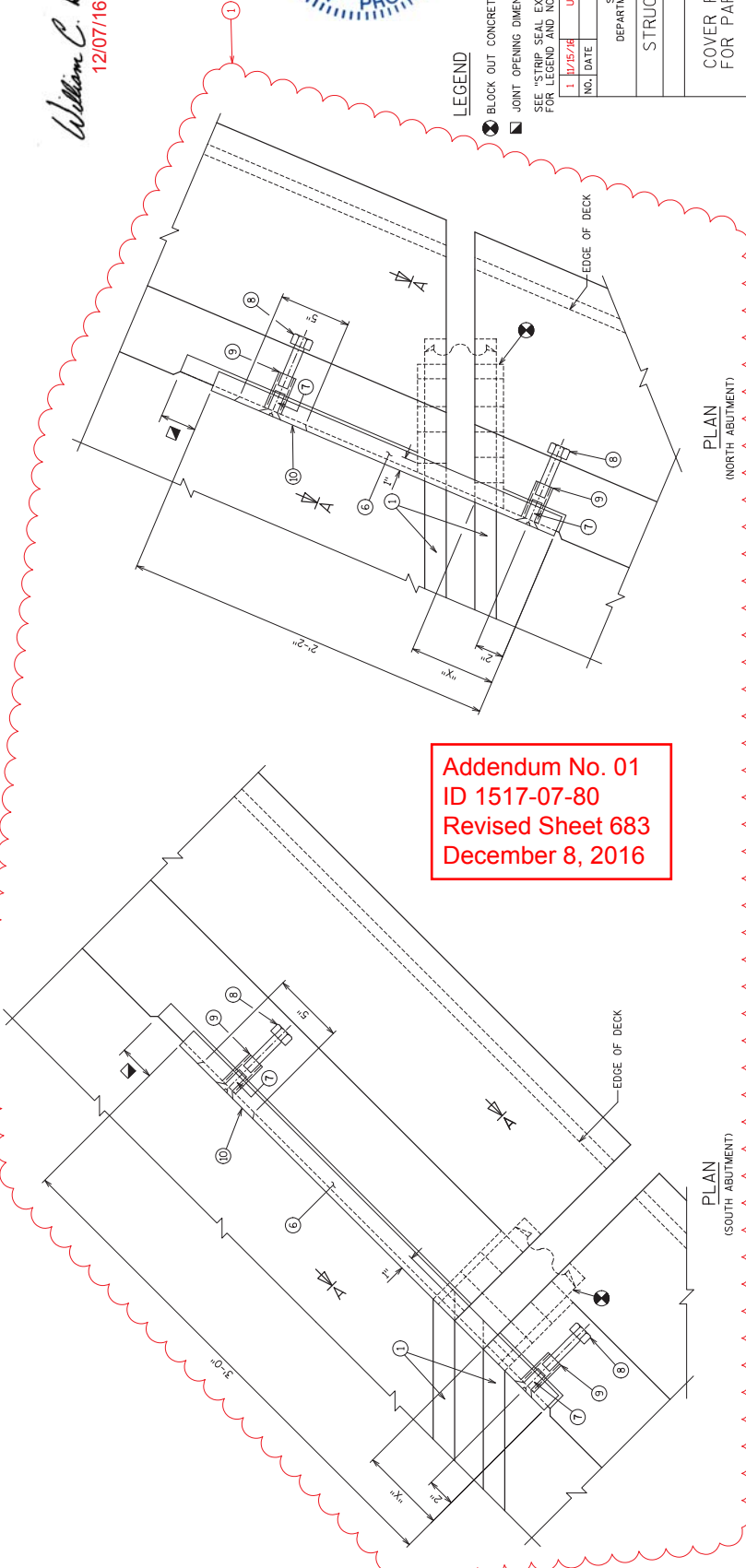


VIEW OF PARAPET PLATE FROM ROADWAY



SECTION A-A

*William C. DeLuca* SDR  
12/07/16



Addendum No. 01  
ID 1517-07-80  
Revised Sheet 683  
December 8, 2016

LEGEND

- ☒ BLOCK OUT CONCRETE 2" EACH SIDE OF JOINT OPENING.
  - ☒ JOINT OPENING DIMENSION ALONG SKEW PLUS 1/2".
- SEE "STRIP SEAL EXPANSION JOINT DETAILS" FOR LEGEND AND NOTES.

NO.	DATE	REVISION	BY
1	12/7/16	UPDATED PLAN VIEWS	JDL

STATE OF WISCONSIN  
DEPARTMENT OF TRANSPORTATION  
STRUCTURE B-70-407  
DESIGNED BY: JDL  
DRAWN/EA/CHK: JDL

COVER PLATES FOR PARAPETS  
SHEET 42 OF 47  
683

STATE PROJECT NUMBER  
1517-07-80

**Addendum No. 01**  
**ID 1517-07-80**  
**Revised Sheet 685**  
**December 8, 2016**

NO.	DATE	REVISION	BY
1	12-23-16	REVISED CALLOUT & NOTE	DNU/JDL

STATE OF WISCONSIN  
DEPARTMENT OF TRANSPORTATION

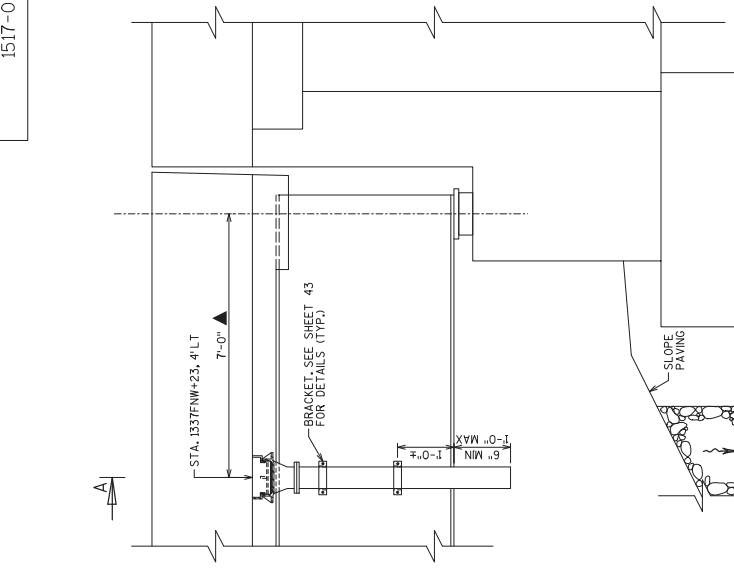
STRUCTURE B-70-407

DRAWN BY: DNU  
CHECKED BY: JDL

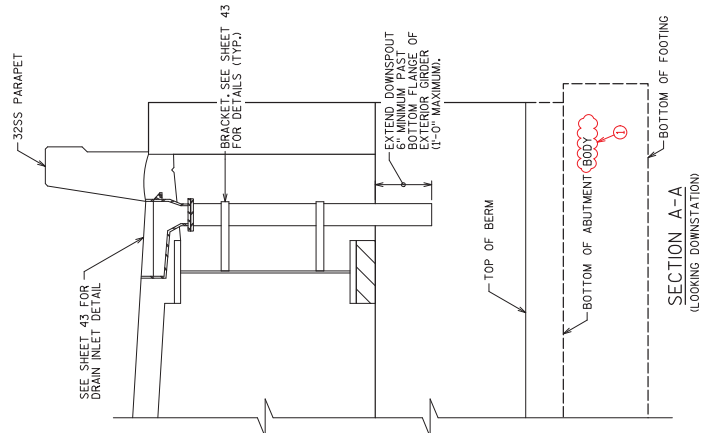
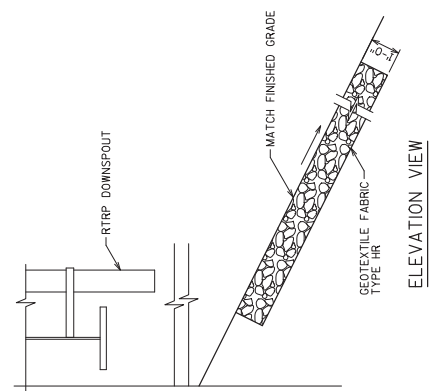
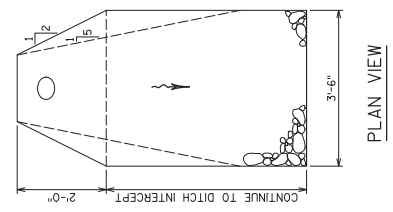
SHEET 44 OF 47  
**685**



*William C. Dehn*  
SRK  
12/07/16



**DOWNSPOUT DETAILS AT SOUTH ABUTMENT**  
▲ MEASURED ALONG GUTTER LINE OF PARAPET TO € BEARING.



**NOTES**

EXCAVATION FOR ENERGY DISSIPATOR IS INCIDENTAL TO BID ITEM "RIPRAP HEAVY".

THE CONTRACTOR MAY PROPOSE AN ALTERNATE TYPE OF BRACKET, THE PROPOSED ALTERNATE DETAILS SHALL BE SUBMITTED AND SUBJECT TO THE APPROVAL OF THE ENGINEER.

DOWNSPOUT TO BE PIGMENTED SAME COLOR AS GIRDERS; SEE SHEET "AESTHETIC DETAILS" FOR DETAILS.

ALL MATERIAL FOR DOWNSPOUT INCLUDING BRACKETS, CLEVIS, PIPE CLAMPS, HANGERS, AND MISC. ITEMS ARE INCLUDED IN BID ITEM "DOWNSPOUT 6-INCH."

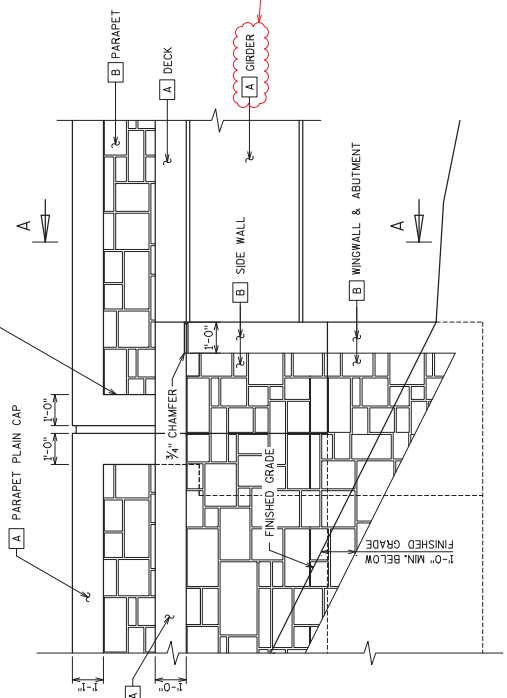
TIGHTEN CLAMPS TO A TIGHT SLIP FIT (FOR TEMP. EXPANSION).

**ENERGY DISSIPATOR DETAIL**

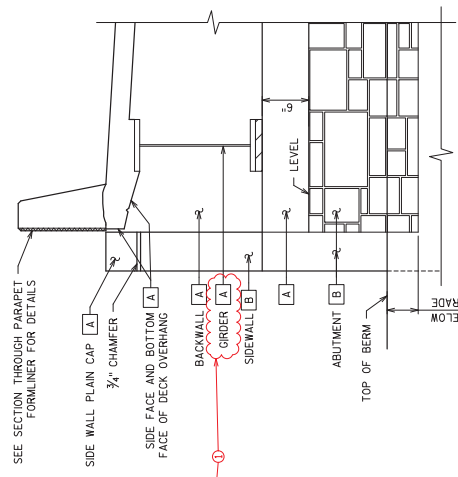


STATE PROJECT NUMBER  
1517-07-80

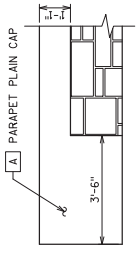
TERMINATE FORMLINER 1/2" FROM END OF WALL AT EXPANSION JOINTS FOR ATTACHMENT OF THE EXPANSION JOINT COVER PLATES TO THE OUTSIDE OF THE PARAPET



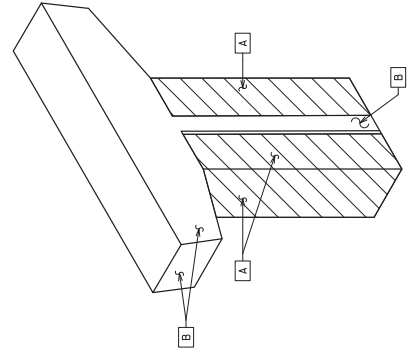
ABUTMENT STAINING DETAIL



SECTION A-A



ABUT. PARAPET END



PIER STAINING DETAIL

STAINING SCHEDULE

MARK	COLOR	FED. COLOR NO.	LOCATION
A	HOPSACK	SW 609	DECK EDGE, PARAPET, AND WING PLAIN CAPS, STEEL GRIDS
B	LATTE	FED. 33522	PARAPETS, WINDOW WALLS, SIDE WALLS, ABUTMENTS, PIER CAPS, AND BASES.

NOTE: 1. FINISH ON CONCRETE STAIN COLORS IS FLAT (LUSTERLESS)

*William C. Disher* SR  
12/07/16



NO.	DATE	REVISION	BY
1	11/10/16	STEEL ORDER COLOR	JDL

ASHLAR

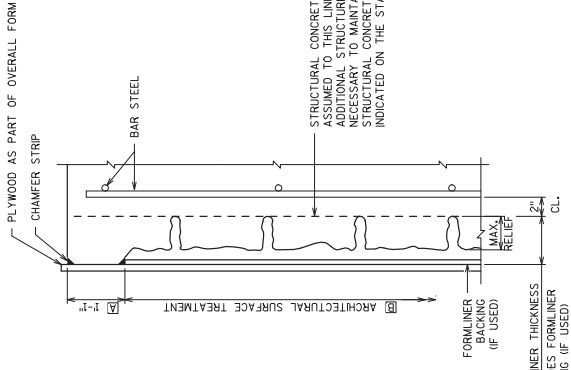
MAXIMUM RELIEF: 1 1/2"  
AVERAGE RELIEF: 1/2"  
PIER THICKNESS\*: 24 1/2" - 17"  
STORE SIZE: W: 5'-23"

\* INCLUDES INTERNAL PLYWOOD BACKING

NOTES

- FORMLINER COURSING ON ABUTMENTS AND WINGS SHALL BE LEVEL.
- THE FORMLINER COURSING ON THE WINGS SHALL BE VERTICALLY ALIGNED WITH THE FORMLINER COURSING ON THE FRONT OF THE ABUTMENT.
- THE FORMLINER PATTERN SHALL BE CONTINUOUS ACROSS CONSTRUCTION JOINTS.
- FORMLINER COURSING ON PARAPET SHALL BE PARALLEL TO TOP OF PARAPET.
- FORMLINER NEED NOT EXTEND AROUND LIGHT BLISTER.

SECTION THROUGH PARAPET FORMLINER



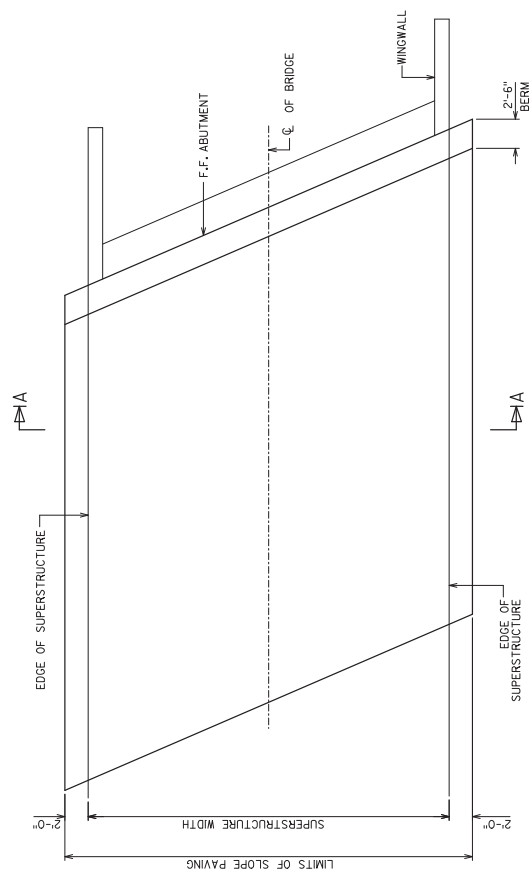
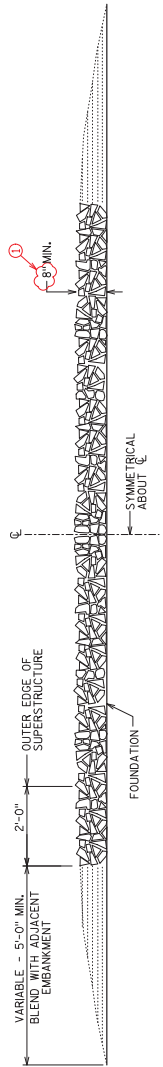
FORMLINER THICKNESS (IF USED)  
INCLUDES FORMLINER BACKING (IF USED)

STATE PROJECT NUMBER  
1517-07-80

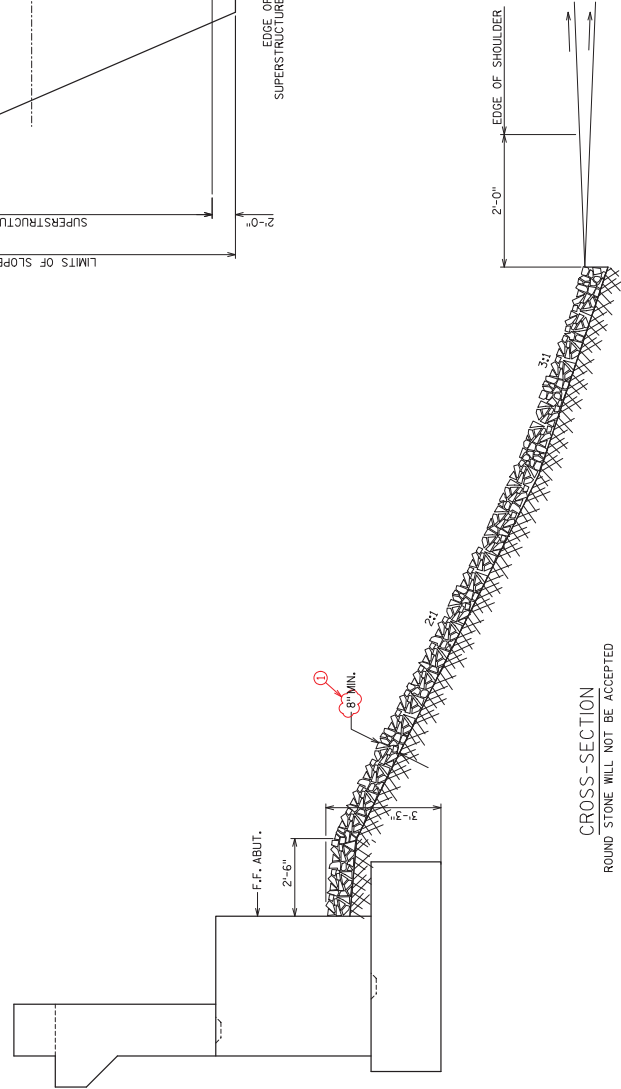
Addendum No. 01  
ID 1517-07-80  
Revised Sheet 687  
December 8, 2016



1	11/23/16	UPDATED DEPTH	JDL
NO.	DATE	REVISION	BY
STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION			
STRUCTURE B-70-407		DESIGNED BY	JDL
SLOPE PAVING (SELECT CRUSHED MATERIAL)		PERKINS	JDL
		SHEET 46 OF 47	687



*William C. Dicker* SR  
12/07/16



NOTES  
DETAILS OF CONSTRUCTION, MATERIALS AND WORKMANSHIP SHALL BE IN ACCORDANCE WITH THE STANDARD SPECIFICATIONS. WOOD FORMS MAY BE LEFT IN PLACE WHEN OF A QUALITY ACCEPTABLE TO THE ENGINEER.

**Addendum No. 01**  
**ID 1517-07-80**  
**Revised Sheet 689**  
**December 8, 2016**

**STATE PROJECT NUMBER**  
1517-07-80

**TRAFFIC VOLUME**  
 RAMP FEN: A.D.T.=2,050 (2035) R.A.D.S.=50 M.P.H.  
 U.S.H. 41  
 CURVE FNE: P.I. = 132PNE-32.58 P.C.I. = 133PNE-30.30  
 Δ = 60°16'41" Δ = 60°16'41"  
 T = 175.84 T = 175.84  
 L = 350.69 L = 350.69  
 R = 4400.00 R = 4400.00  
 S.E. = S.E. =  
 P.C. = 131PNE+57.14 P.C.I. = 132PNE+07.83  
 P.C.C. = 132PNE+07.83 P.T. = 133PNE+98.17

**DESIGN DATA**  
 LIVE LOAD: DESIGN LOADING: HL-93  
 INVENTORY RATING FACTOR: RF=1.05  
 OPERATING RATING FACTOR: RF=L36  
 WISCONSIN STANDARD PERMIT VEHICLE (WIS.-SPV): 240 (KIPS)  
 STRUCTURE IS DESIGNED FOR A FUTURE WEARING SURFACE OF 20 POUNDS PER SQUARE FOOT.

**FOUNDATION DATA**  
 ABUTMENTS TO BE SUPPORTED ON HP 14 X 53 STEEL PILING AS DETERMINED BY THE MODIFIED GATES DYNAMIC FORMULA, ESTIMATED 35'-0" LONG.  
 PIERS TO BE SUPPORTED ON HP 14 X 74 STEEL PILING DRIVEN TO A REQUIRED DRIVING RESISTANCE OF 250 TONS \* PER PILE AS DETERMINED BY THE MODIFIED GATES DYNAMIC FORMULA, ESTIMATED 20'-0" LONG \* PER PIER 2, & PER 3. PILE POINTS READ. ESTIMATED 15'-0" LONG \* PER 4. PILE POINTS READ.  
 \* THE FACTORED AXIAL RESISTANCE OF PILES IN COMPRESSION USED FOR DESIGN IS THE REQUIRED DRIVING RESISTANCE MULTIPLIED BY A RESISTANCE FACTOR OF 0.5 USING MODIFIED GATES TO DETERMINE DRIVEN PILE CAPACITY.

**LIST OF DRAWINGS**  
 1. GENERAL PLAN  
 2. QUANTITIES & GENERAL NOTES  
 3. CROSS SECTION & GRADE LINES  
 4. SUBSURFACE EXPLORATION  
 5. WEST ABUTMENT  
 6. WEST ABUTMENT DETAILS  
 7. EAST ABUTMENT  
 8. EAST ABUTMENT DETAILS  
 9. PIER 1  
 10. PIER 1 DETAILS  
 11. PIER 2  
 12. PIER 2 DETAILS  
 13. PIER 3  
 14. PIER 3 DETAILS  
 15. PIER 4  
 16. PIER 4 DETAILS  
 17. 45W\* PRESTRESSED ORDER DETAILS 1  
 18. 45W\* PRESTRESSED ORDER DETAILS 2  
 19. ORDER DATA  
 20. LAMINATED ELASTOMERIC BEARINGS  
 21. STEEL ROCKER PLATE BEARINGS  
 22. STEEL DIAPHRAGM  
 23. SPANS 1 & 2 FRAMING PLAN  
 24. SPAN 3 FRAMING PLAN  
 25. SPANS 4 & 5 FRAMING PLAN  
 26. SUPERSTRUCTURE CROSS SECTION 1  
 27. SUPERSTRUCTURE CROSS SECTION 2  
 28. SUPERSTRUCTURE DETAILS 1  
 29. SUPERSTRUCTURE DETAILS 2  
 30. SUPERSTRUCTURE DETAILS 3  
 31. DECK PLAN 1  
 32. DECK PLAN 2  
 33. DECK PLAN 3  
 34. TANGENT OFFSETS  
 35. DECK ELEVATIONS  
 36. SUPERSTRUCTURE EXPANSION DEVICE  
 37. WEST ABUTMENT COVER PLATE DETAILS  
 38. EAST ABUTMENT COVER PLATE DETAILS  
 39. EAST ABUTMENT COVER PLATE DETAILS  
 40. SINGLE SLOPE PARAPET 32SS MODIFIED  
 41. SINGLE SLOPE PARAPET 42SS MODIFIED  
 42. PARAPET ELECTRICAL  
 43. LIGHTING DETAILS  
 44. AESTHETIC DETAILS  
 45. SLOPE PAVING @ WEST ABUTMENT  
 46. SLOPE PAVING @ EAST ABUTMENT  
 47. WEST STRUCTURAL APPROACH SLAB  
 48. EAST STRUCTURAL APPROACH SLAB  
 49. POLYMER OVERLAY

**TRAFFIC VOLUME**  
 RAMP FEN: A.D.T.=2,050 (2035) R.A.D.S.=50 M.P.H.  
 U.S.H. 41  
 CURVE FNE: P.I. = 132PNE-32.58 P.C.I. = 133PNE-30.30  
 Δ = 60°16'41" Δ = 60°16'41"  
 T = 175.84 T = 175.84  
 L = 350.69 L = 350.69  
 R = 4400.00 R = 4400.00  
 S.E. = S.E. =  
 P.C. = 131PNE+57.14 P.C.I. = 132PNE+07.83  
 P.C.C. = 132PNE+07.83 P.T. = 133PNE+98.17

**FOUNDATION DATA**  
 ABUTMENTS TO BE SUPPORTED ON HP 14 X 53 STEEL PILING AS DETERMINED BY THE MODIFIED GATES DYNAMIC FORMULA, ESTIMATED 35'-0" LONG.  
 PIERS TO BE SUPPORTED ON HP 14 X 74 STEEL PILING DRIVEN TO A REQUIRED DRIVING RESISTANCE OF 250 TONS \* PER PILE AS DETERMINED BY THE MODIFIED GATES DYNAMIC FORMULA, ESTIMATED 20'-0" LONG \* PER PIER 2, & PER 3. PILE POINTS READ. ESTIMATED 15'-0" LONG \* PER 4. PILE POINTS READ.  
 \* THE FACTORED AXIAL RESISTANCE OF PILES IN COMPRESSION USED FOR DESIGN IS THE REQUIRED DRIVING RESISTANCE MULTIPLIED BY A RESISTANCE FACTOR OF 0.5 USING MODIFIED GATES TO DETERMINE DRIVEN PILE CAPACITY.

**LIST OF DRAWINGS**  
 1. GENERAL PLAN  
 2. QUANTITIES & GENERAL NOTES  
 3. CROSS SECTION & GRADE LINES  
 4. SUBSURFACE EXPLORATION  
 5. WEST ABUTMENT  
 6. WEST ABUTMENT DETAILS  
 7. EAST ABUTMENT  
 8. EAST ABUTMENT DETAILS  
 9. PIER 1  
 10. PIER 1 DETAILS  
 11. PIER 2  
 12. PIER 2 DETAILS  
 13. PIER 3  
 14. PIER 3 DETAILS  
 15. PIER 4  
 16. PIER 4 DETAILS  
 17. 45W\* PRESTRESSED ORDER DETAILS 1  
 18. 45W\* PRESTRESSED ORDER DETAILS 2  
 19. ORDER DATA  
 20. LAMINATED ELASTOMERIC BEARINGS  
 21. STEEL ROCKER PLATE BEARINGS  
 22. STEEL DIAPHRAGM  
 23. SPANS 1 & 2 FRAMING PLAN  
 24. SPAN 3 FRAMING PLAN  
 25. SPANS 4 & 5 FRAMING PLAN  
 26. SUPERSTRUCTURE CROSS SECTION 1  
 27. SUPERSTRUCTURE CROSS SECTION 2  
 28. SUPERSTRUCTURE DETAILS 1  
 29. SUPERSTRUCTURE DETAILS 2  
 30. SUPERSTRUCTURE DETAILS 3  
 31. DECK PLAN 1  
 32. DECK PLAN 2  
 33. DECK PLAN 3  
 34. TANGENT OFFSETS  
 35. DECK ELEVATIONS  
 36. SUPERSTRUCTURE EXPANSION DEVICE  
 37. WEST ABUTMENT COVER PLATE DETAILS  
 38. EAST ABUTMENT COVER PLATE DETAILS  
 39. EAST ABUTMENT COVER PLATE DETAILS  
 40. SINGLE SLOPE PARAPET 32SS MODIFIED  
 41. SINGLE SLOPE PARAPET 42SS MODIFIED  
 42. PARAPET ELECTRICAL  
 43. LIGHTING DETAILS  
 44. AESTHETIC DETAILS  
 45. SLOPE PAVING @ WEST ABUTMENT  
 46. SLOPE PAVING @ EAST ABUTMENT  
 47. WEST STRUCTURAL APPROACH SLAB  
 48. EAST STRUCTURAL APPROACH SLAB  
 49. POLYMER OVERLAY

**DESIGN DATA**  
 LIVE LOAD: DESIGN LOADING: HL-93  
 INVENTORY RATING FACTOR: RF=1.05  
 OPERATING RATING FACTOR: RF=L36  
 WISCONSIN STANDARD PERMIT VEHICLE (WIS.-SPV): 240 (KIPS)  
 STRUCTURE IS DESIGNED FOR A FUTURE WEARING SURFACE OF 20 POUNDS PER SQUARE FOOT.

**FOUNDATION DATA**  
 ABUTMENTS TO BE SUPPORTED ON HP 14 X 53 STEEL PILING AS DETERMINED BY THE MODIFIED GATES DYNAMIC FORMULA, ESTIMATED 35'-0" LONG.  
 PIERS TO BE SUPPORTED ON HP 14 X 74 STEEL PILING DRIVEN TO A REQUIRED DRIVING RESISTANCE OF 250 TONS \* PER PILE AS DETERMINED BY THE MODIFIED GATES DYNAMIC FORMULA, ESTIMATED 20'-0" LONG \* PER PIER 2, & PER 3. PILE POINTS READ. ESTIMATED 15'-0" LONG \* PER 4. PILE POINTS READ.  
 \* THE FACTORED AXIAL RESISTANCE OF PILES IN COMPRESSION USED FOR DESIGN IS THE REQUIRED DRIVING RESISTANCE MULTIPLIED BY A RESISTANCE FACTOR OF 0.5 USING MODIFIED GATES TO DETERMINE DRIVEN PILE CAPACITY.

*William C. Decker* LLS 12/8/16

DATE: SEPT. 2016  
 I.D. 1517-07-04D

**8**

ACCEPTED: **WISDOT**  
 BUREAU OF STRUCTURES

CHIEF STRUCTURES DESIGN ENGINEER: DATE

STRUCTURE: **B-70-409**

USH 10 EB (RAMP FEN) TO USH 41 NB

COUNTY: WINNEBAGO TOWN: SHREVEPORT-MENASHA

DESIGN SPEC.:  
 ASSISTED. LIED. BRIDGE DESIGN SPECIFICATIONS  
 REVISION: WWR (C) JLR/B/B  
 BY: WWR (C) JLR/B/B

GENERAL PLAN

SHEET 1 OF 49

689

**8**

TRAFFIC VOLUME

RAMP FEN: A.D.T.=2,050 (2035) R.A.D.S.=50 M.P.H.  
 U.S.H. 41

CURVE DATA

CURVE FNE: P.I. = 132PNE-32.58 P.C.I. = 133PNE-30.30  
 Δ = 60°16'41" Δ = 60°16'41"  
 T = 175.84 T = 175.84  
 L = 350.69 L = 350.69  
 R = 4400.00 R = 4400.00  
 S.E. = S.E. =  
 P.C. = 131PNE+57.14 P.C.I. = 132PNE+07.83  
 P.C.C. = 132PNE+07.83 P.T. = 133PNE+98.17

FOUNDATION DATA

ABUTMENTS TO BE SUPPORTED ON HP 14 X 53 STEEL PILING AS DETERMINED BY THE MODIFIED GATES DYNAMIC FORMULA, ESTIMATED 35'-0" LONG.  
 PIERS TO BE SUPPORTED ON HP 14 X 74 STEEL PILING DRIVEN TO A REQUIRED DRIVING RESISTANCE OF 250 TONS \* PER PILE AS DETERMINED BY THE MODIFIED GATES DYNAMIC FORMULA, ESTIMATED 20'-0" LONG \* PER PIER 2, & PER 3. PILE POINTS READ. ESTIMATED 15'-0" LONG \* PER 4. PILE POINTS READ.  
 \* THE FACTORED AXIAL RESISTANCE OF PILES IN COMPRESSION USED FOR DESIGN IS THE REQUIRED DRIVING RESISTANCE MULTIPLIED BY A RESISTANCE FACTOR OF 0.5 USING MODIFIED GATES TO DETERMINE DRIVEN PILE CAPACITY.

LIST OF DRAWINGS

1. GENERAL PLAN  
 2. QUANTITIES & GENERAL NOTES  
 3. CROSS SECTION & GRADE LINES  
 4. SUBSURFACE EXPLORATION  
 5. WEST ABUTMENT  
 6. WEST ABUTMENT DETAILS  
 7. EAST ABUTMENT  
 8. EAST ABUTMENT DETAILS  
 9. PIER 1  
 10. PIER 1 DETAILS  
 11. PIER 2  
 12. PIER 2 DETAILS  
 13. PIER 3  
 14. PIER 3 DETAILS  
 15. PIER 4  
 16. PIER 4 DETAILS  
 17. 45W\* PRESTRESSED ORDER DETAILS 1  
 18. 45W\* PRESTRESSED ORDER DETAILS 2  
 19. ORDER DATA  
 20. LAMINATED ELASTOMERIC BEARINGS  
 21. STEEL ROCKER PLATE BEARINGS  
 22. STEEL DIAPHRAGM  
 23. SPANS 1 & 2 FRAMING PLAN  
 24. SPAN 3 FRAMING PLAN  
 25. SPANS 4 & 5 FRAMING PLAN  
 26. SUPERSTRUCTURE CROSS SECTION 1  
 27. SUPERSTRUCTURE CROSS SECTION 2  
 28. SUPERSTRUCTURE DETAILS 1  
 29. SUPERSTRUCTURE DETAILS 2  
 30. SUPERSTRUCTURE DETAILS 3  
 31. DECK PLAN 1  
 32. DECK PLAN 2  
 33. DECK PLAN 3  
 34. TANGENT OFFSETS  
 35. DECK ELEVATIONS  
 36. SUPERSTRUCTURE EXPANSION DEVICE  
 37. WEST ABUTMENT COVER PLATE DETAILS  
 38. EAST ABUTMENT COVER PLATE DETAILS  
 39. EAST ABUTMENT COVER PLATE DETAILS  
 40. SINGLE SLOPE PARAPET 32SS MODIFIED  
 41. SINGLE SLOPE PARAPET 42SS MODIFIED  
 42. PARAPET ELECTRICAL  
 43. LIGHTING DETAILS  
 44. AESTHETIC DETAILS  
 45. SLOPE PAVING @ WEST ABUTMENT  
 46. SLOPE PAVING @ EAST ABUTMENT  
 47. WEST STRUCTURAL APPROACH SLAB  
 48. EAST STRUCTURAL APPROACH SLAB  
 49. POLYMER OVERLAY

DESIGN DATA

LIVE LOAD: DESIGN LOADING: HL-93  
 INVENTORY RATING FACTOR: RF=1.05  
 OPERATING RATING FACTOR: RF=L36  
 WISCONSIN STANDARD PERMIT VEHICLE (WIS.-SPV): 240 (KIPS)  
 STRUCTURE IS DESIGNED FOR A FUTURE WEARING SURFACE OF 20 POUNDS PER SQUARE FOOT.

FOUNDATION DATA

ABUTMENTS TO BE SUPPORTED ON HP 14 X 53 STEEL PILING AS DETERMINED BY THE MODIFIED GATES DYNAMIC FORMULA, ESTIMATED 35'-0" LONG.  
 PIERS TO BE SUPPORTED ON HP 14 X 74 STEEL PILING DRIVEN TO A REQUIRED DRIVING RESISTANCE OF 250 TONS \* PER PILE AS DETERMINED BY THE MODIFIED GATES DYNAMIC FORMULA, ESTIMATED 20'-0" LONG \* PER PIER 2, & PER 3. PILE POINTS READ. ESTIMATED 15'-0" LONG \* PER 4. PILE POINTS READ.  
 \* THE FACTORED AXIAL RESISTANCE OF PILES IN COMPRESSION USED FOR DESIGN IS THE REQUIRED DRIVING RESISTANCE MULTIPLIED BY A RESISTANCE FACTOR OF 0.5 USING MODIFIED GATES TO DETERMINE DRIVEN PILE CAPACITY.

LIST OF DRAWINGS

1. GENERAL PLAN  
 2. QUANTITIES & GENERAL NOTES  
 3. CROSS SECTION & GRADE LINES  
 4. SUBSURFACE EXPLORATION  
 5. WEST ABUTMENT  
 6. WEST ABUTMENT DETAILS  
 7. EAST ABUTMENT  
 8. EAST ABUTMENT DETAILS  
 9. PIER 1  
 10. PIER 1 DETAILS  
 11. PIER 2  
 12. PIER 2 DETAILS  
 13. PIER 3  
 14. PIER 3 DETAILS  
 15. PIER 4  
 16. PIER 4 DETAILS  
 17. 45W\* PRESTRESSED ORDER DETAILS 1  
 18. 45W\* PRESTRESSED ORDER DETAILS 2  
 19. ORDER DATA  
 20. LAMINATED ELASTOMERIC BEARINGS  
 21. STEEL ROCKER PLATE BEARINGS  
 22. STEEL DIAPHRAGM  
 23. SPANS 1 & 2 FRAMING PLAN  
 24. SPAN 3 FRAMING PLAN  
 25. SPANS 4 & 5 FRAMING PLAN  
 26. SUPERSTRUCTURE CROSS SECTION 1  
 27. SUPERSTRUCTURE CROSS SECTION 2  
 28. SUPERSTRUCTURE DETAILS 1  
 29. SUPERSTRUCTURE DETAILS 2  
 30. SUPERSTRUCTURE DETAILS 3  
 31. DECK PLAN 1  
 32. DECK PLAN 2  
 33. DECK PLAN 3  
 34. TANGENT OFFSETS  
 35. DECK ELEVATIONS  
 36. SUPERSTRUCTURE EXPANSION DEVICE  
 37. WEST ABUTMENT COVER PLATE DETAILS  
 38. EAST ABUTMENT COVER PLATE DETAILS  
 39. EAST ABUTMENT COVER PLATE DETAILS  
 40. SINGLE SLOPE PARAPET 32SS MODIFIED  
 41. SINGLE SLOPE PARAPET 42SS MODIFIED  
 42. PARAPET ELECTRICAL  
 43. LIGHTING DETAILS  
 44. AESTHETIC DETAILS  
 45. SLOPE PAVING @ WEST ABUTMENT  
 46. SLOPE PAVING @ EAST ABUTMENT  
 47. WEST STRUCTURAL APPROACH SLAB  
 48. EAST STRUCTURAL APPROACH SLAB  
 49. POLYMER OVERLAY

DESIGN DATA

LIVE LOAD: DESIGN LOADING: HL-93  
 INVENTORY RATING FACTOR: RF=1.05  
 OPERATING RATING FACTOR: RF=L36  
 WISCONSIN STANDARD PERMIT VEHICLE (WIS.-SPV): 240 (KIPS)  
 STRUCTURE IS DESIGNED FOR A FUTURE WEARING SURFACE OF 20 POUNDS PER SQUARE FOOT.

FOUNDATION DATA

ABUTMENTS TO BE SUPPORTED ON HP 14 X 53 STEEL PILING AS DETERMINED BY THE MODIFIED GATES DYNAMIC FORMULA, ESTIMATED 35'-0" LONG.  
 PIERS TO BE SUPPORTED ON HP 14 X 74 STEEL PILING DRIVEN TO A REQUIRED DRIVING RESISTANCE OF 250 TONS \* PER PILE AS DETERMINED BY THE MODIFIED GATES DYNAMIC FORMULA, ESTIMATED 20'-0" LONG \* PER PIER 2, & PER 3. PILE POINTS READ. ESTIMATED 15'-0" LONG \* PER 4. PILE POINTS READ.  
 \* THE FACTORED AXIAL RESISTANCE OF PILES IN COMPRESSION USED FOR DESIGN IS THE REQUIRED DRIVING RESISTANCE MULTIPLIED BY A RESISTANCE FACTOR OF 0.5 USING MODIFIED GATES TO DETERMINE DRIVEN PILE CAPACITY.

**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 BAR SIZE.  
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.  
PAVING BLOCKS IN NOTCH AREAS & APPROACH SLABS SHALL BE APPLIED TO THE APPROACH SLABS. THE PAVING SHALL BE SET ON THE FRONT FACE AND THE TOP OF THE PARAPETS, INCLUDING P.P.S., ON APPROACH DEVICES.

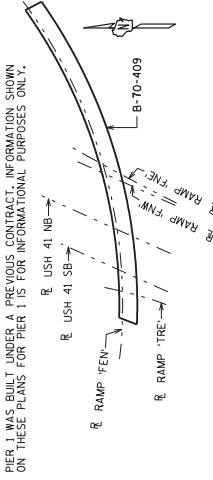
ELASTOMERIC BEARING PADS NEED NOT BE INDIVIDUALLY MOLDED PROVIDED THE CUT EDGES ARE SMOOTH AND TRUE.  
THE GRADATION OF THE STRUCTURE BACKFILL SHALL MEET THE REQUIREMENTS OF SECTION 203.2.2.2 OF THE STANDARD SPECIFICATIONS FOR GRADE 1 MATERIAL.  
THE EXISTING GROUNDLINE SHALL BE USED AS THE UPPER LIMITS OF THE BACKFILL.

THE SLOPE OF THE FILL IN FRONT OF THE EAST ABUTMENT SHALL BE COVERED WITH HEAVY APRAP AND GEOTEXTILE FABRIC TYPE HR AND SLOPE PAVING SELECT CRUSHED MATERIAL TO THE EXTENT SHOWN ON SHEET 1 AND IN THE ABUTMENT DETAILS.  
THE SLOPE OF THE FILL IN FRONT OF THE WEST ABUTMENT SHALL BE COVERED WITH SLOPE PAVING SELECT CRUSHED MATERIAL TO THE EXTENT SHOWN ON SHEET 1 AND IN THE ABUTMENT DETAILS.

BRIDGE SEAT PROTECTION, AS PER SECTION 502.3.12 OF THE STANDARD SPECIFICATIONS, SHALL BE APPLIED TO THE TOP SURFACES OF BOTH ABUTMENTS BELOW THE EXISTING GROUNDLINE.  
THE RUSTICATIONS ON THE BACK FACE OF PARAPETS AND THE PIER COLUMNS ARE INCLUDED IN THE BID ITEM "CONCRETE MASONRY BRIDGES".

AT ABUTMENTS, HP 14X73 STEEL PILING MAY BE USED IN LIEU OF HP 12X53 STEEL PILING. PAYMENT SHALL BE BASED ON BID PRICE FOR HP 12X53 STEEL PILING.  
COFFERDAMS ANTICIPATED AT PIER 4 LOCATION.  
PIER 1 WAS BUILT UNDER A PREVIOUS CONTRACT. INFORMATION SHOWN ON THESE PLANS FOR PIER 1 IS FOR INFORMATIONAL PURPOSES ONLY.

PIER 1 WAS BUILT UNDER A PREVIOUS CONTRACT. INFORMATION SHOWN ON THESE PLANS FOR PIER 1 IS FOR INFORMATIONAL PURPOSES ONLY.

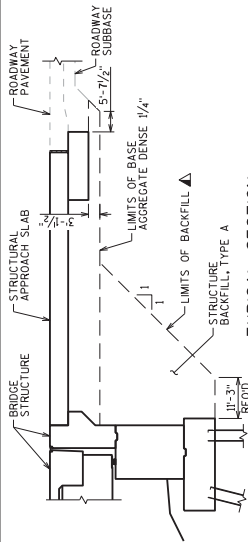


**BRIDGE LOCATION PLAN**

*William C. Decker* 12/18/16

NO. DATE	REVISION	BY
11/17/16	BID ITEM, QUANTITIES, & NOTES	JLR
STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION STRUCTURES DESIGN SECTION		
STRUCTURE B-70-409		
DESIGNED BY	DRAWN BY	CR. JLR/BLB
WWR		
QUANTITIES & GENERAL NOTES		SHEET 2
		690

\* QUANTITY SHOWN FOR INFORMATIONAL PURPOSES ONLY. CONSTRUCTION FOR PIER 1 IS SHOWN IN PREVIOUS CONTRACT. SEE CONTRACT BIT-07-77 FOR FURTHER DETAILS.  
\*\* TOTAL DOES NOT INCLUDE PIER 1 QUANTITY.



**TYPICAL SECTION THRU ABUTMENT**

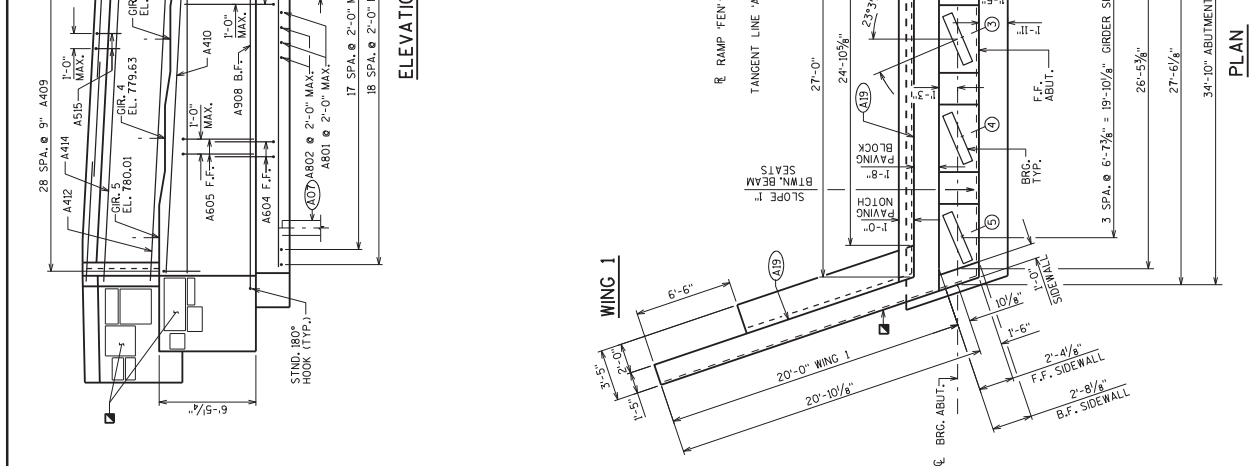
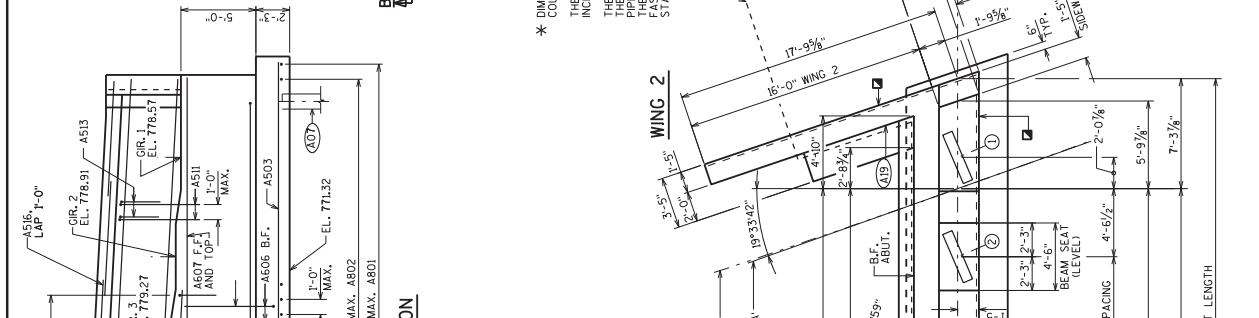
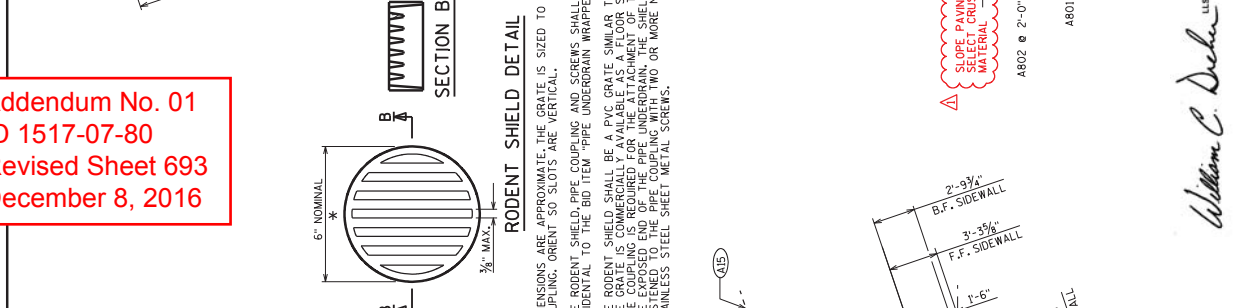
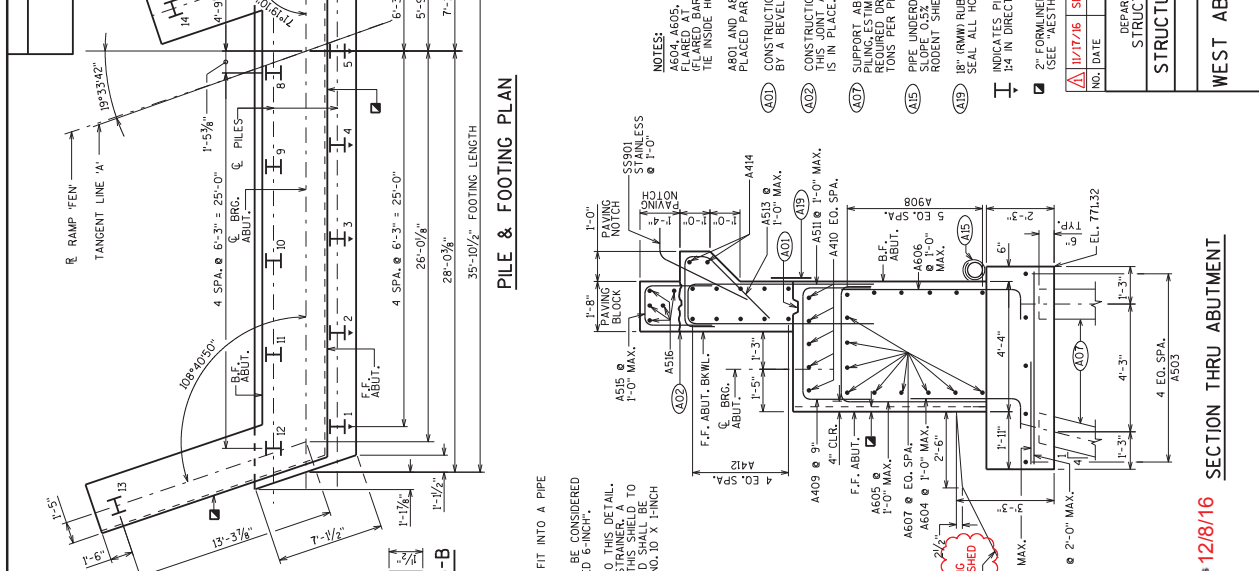
1A3 ABUTMENT WITH STRUCTURAL APPROACH  
BACKFILL PAY LIMITS, BACKFILL BEYOND BACKFILL PAY LIMITS SHALL BE INCIDENTAL TO EXCAVATION FOR STRUCTURES. LIMITS OF EXCAVATION SHALL BE DETERMINED BY THE CONTRACTOR.

Addendum No. 01  
ID 1517-07-80  
Revised Sheet 690  
December 8, 2016

**TOTAL ESTIMATED QUANTITIES**

BID ITEM NUMBER	BID ITEMS	UNIT	SUPER.	WEST ABUTMENT	WEST APPROACH SLAB	PIER 1	PIER 2	PIER 3	PIER 4	EAST ABUTMENT	EAST APPROACH SLAB	TOTALS
206.0000	EXCAVATION FOR STRUCTURES BRIDGES B-70-409	LS										1
206.5000	COFFERDAMS B-70-409	LS										216
210.1000	BACKFILL STRUCTURE TYPE A	CY		108						108		216
305.0120	BASE AGGREGATE DENSE 1/2-INCH	TONS		110						110		220
501.000.5	ICE HOT WEATHER CONCRETE	LB	5,175	675	745*	765	805	805	805	675	330	9,560**
502.3100	EXPANSION DEVICE B-70-409	LS										66
502.3200	PROTECTIVE SURFACE TREATMENT	SY	506	66								132
502.3210	PIGMENTED SURFACE SEALER	SY	20	20								40
503.0146	PRESTRESSED ORDER TYPE 145W-INCH	LF	2,778									2,778
505.0400	BAR STEEL REINFORCEMENT HS STRUCTURES	LB		3,370	2,558*	2,470	4,560	12,040	3,360	3,790	7,730	16,530**
505.0500	BAR STEEL REINFORCEMENT HS COATED STRUCTURES	LB	195,280	7,880	9,938*	10,490	10,460	10,460	12,040	3,790	7,730	251,380**
505.0800.S	BAR STEEL REINFORCEMENT HS STAINLESS STRUCTURES	LB								530		1,070
506.2605	BEARING PADS ELASTOMERIC NON-LAMINATED	EACH		540								20
506.2610	BEARING PADS ELASTOMERIC LAMINATED	EACH			10							20
506.4000	STEEL DIAPHRAGMS B-70-409	EACH	40							5		10
509.5100.S	POLYMER OVERLAY	SY	1,673									1,673
511.2000	TEMPORARY SHORING B-70-409	SF		1,100	600*		900					2,000**
516.0500	RUBBERIZED MEMBRANE WATERPROOFING	SY		10						10		20
517.1000.S	CONCRETE STAINING B-70-409	SF	14,930	451	930	1,009	1,013	1,127	446	124	124	20,154
517.1050.S	ARCHITECTURAL SURFACE TREATMENT B-70-409	SF	2,242	80	373				365	80	80	3,140
550.0500	PILE POINTS	EACH			20*	20	25					67**
550.1120	PILING STEEL HP 12-INCH X 53 LB	LF		490					490			980
550.2400	PILING STEEL HP 14-INCH X 73 LB	LF			400*	400	500		330			1,230**
604.0600	SLOPE PAVING SELECT CRUSHED MATERIAL	SY		190						132		322
606.0300	APRAPH HEAVY	CY		70						35		35
612.0406	PIPE UNDERDRAIN WRAPPED 6-INCH	LF		70						70		140
614.0150	ANCHOR ASSEMBLIES FOR STEEL PLATE BEAM GUARD	EACH		2							2	4
645.0120	GEOTEXTILE FABRIC TYPE HR	SY							71			71
652.0125	CONDUIT RIGID METALLIC 2-INCH	LF		35							35	70
652.0225	CONDUIT RIGID NONMETALLIC SCHEDULE 40 2-INCH	LF	574									574
653.0220	JUNCTION BOXES 18X6X6-INCH	EACH	5									5
657.6005.S	ANCHOR ASSEMBLIES LIGHT POLES ON STRUCTURES	EACH	4									4
SPV.0035	MODIFIED HIGH PERFORMANCE CONCRETE (HPC) MASONRY BRIDGES	CY	690	44	91*	102	107	107	90	44	44	1,274**
SPV.0040	JUNCTION BOXES FIBREGLASS 18X26-INCH	EACH		1							1	2
	NON-BID ITEMS											
	FILLER	SIZE										1/2:3/4:1/2
	BRIDGE SEAT PROTECTION	LS										1

**Addendum No. 01**  
**ID 1517-07-80**  
**Revised Sheet 693**  
**December 8, 2016**

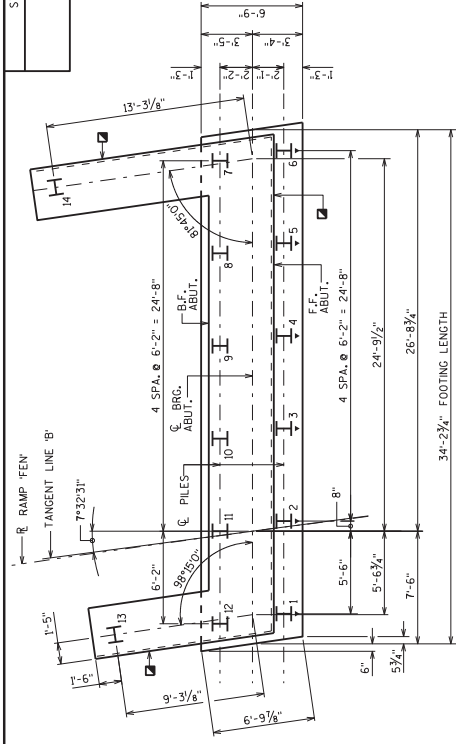


NO. DATE	REVISION	BY
11/17/16	SELECT CRUSHED MATERIAL	JLR
STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION STRUCTURES DESIGN SECTION		
STRUCTURE	B-70-409	
DRAWN BY	WWR	
CH. OR. FILE	JLR/BLB	
WEST ABUTMENT		SHEET 5
		693

*William C. Decker, L.S.* 12/8/16



Addendum No. 01  
ID 1517-07-80  
Revised Sheet 695  
December 8, 2016



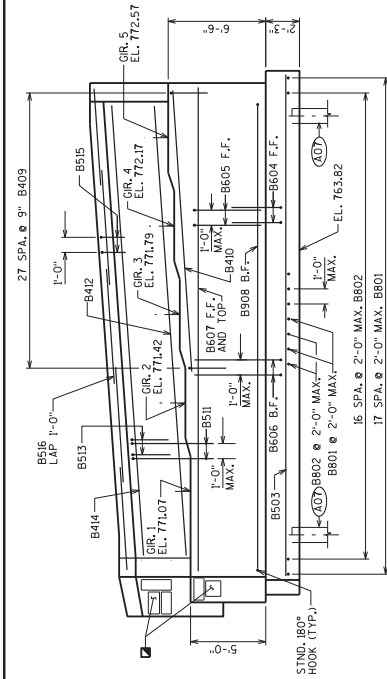
PILE & FOOTING PLAN



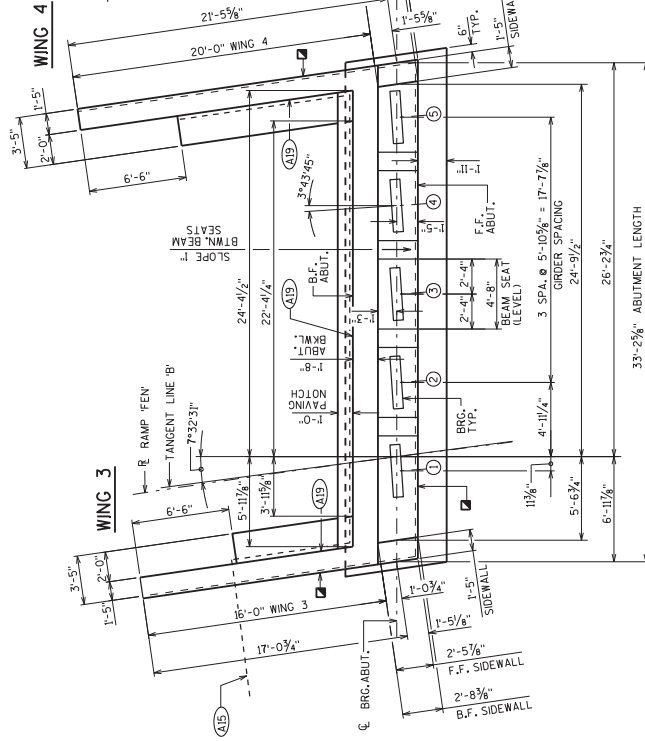
SECTION B-B

RODENT SHIELD DETAIL

\* DIMENSIONS ARE APPROXIMATE. THE GRATE IS SIZED TO FIT INTO A PIPE COUPLING. SHIELD SLOTS ARE VERTICAL.  
INCIDENTAL TO THE BID ITEM "PIPE UNDERDRAIN WRAPPED 6-INCH".  
THE RODENT SHIELD SHALL BE A PVC GRATE SIMILAR TO THIS DETAIL. THE GRATE IS COMMERCIALY AVAILABLE AS A FLOOR STRAINER. A 1/2" X 1/2" X 1/2" RODENT SHIELD SHALL BE FASTENED TO THE PIPE COUPLING WITH TWO OR MORE NO. 10 X 1-INCH STAINLESS STEEL SHEET METAL SCREWS.



ELEVATION



PLAN

- (A01) CONSTRUCTION JOINT. KEYWAY FORMED BY A BEVELED 2 x 6.
- (A02) CONSTRUCTION JOINT. FOUR CONCRETE ABOVE IS IN PLACE. STRIKE OFF AND LEAVE ROUGH.
- (A03) SUPPORT ABUTMENT IS ON HP 12 x 53 STEEL REQUIRED DRIVING RESISTANCE OF 220 TONS PER PILE.
- (A04) PIPE UNDERDRAIN WRAPPED (6-INCH) SLOPE 0.5% MIN. TO SUITABLE DRAINAGE. RODENT SHIELD REQUIRED.
- (A05) 18" (RMW) RUBBERIZED MEMBRANE WATERPROOFING SEAL ALL HORIZ. & VERT. JOINTS AT BACKFACE.
- (A06) INDICATES PILE BATTERED 1/4" IN DIRECTION SHOWN
- (A07) 2" FORMLINER (SEE "AESTHETIC DETAILS" SHEET)

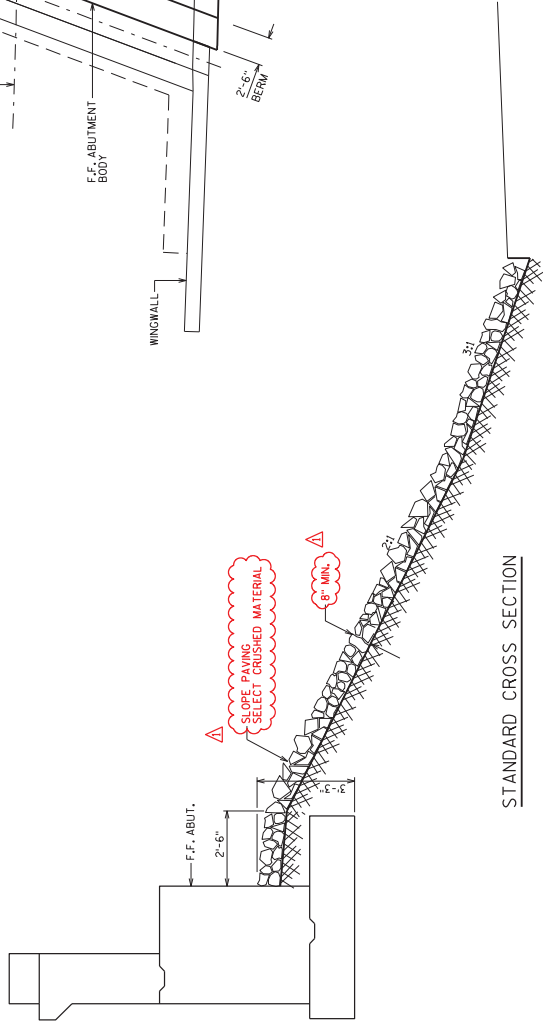
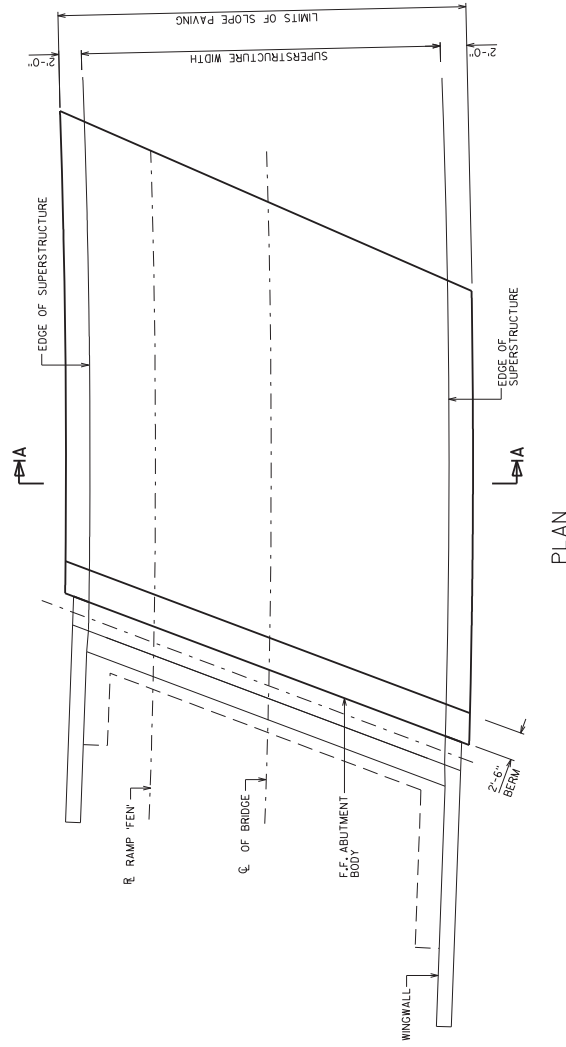
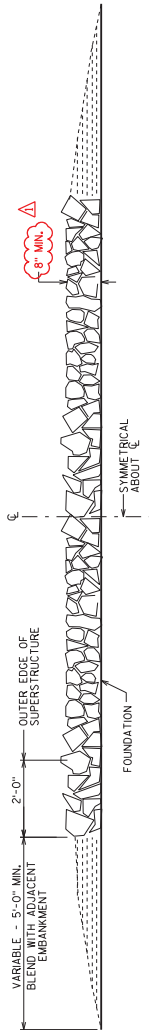
NO.	DATE	REVISION	BY
A11/17/16		SELECT CRUSHED MATERIAL	JLR
STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION STRUCTURES DESIGN SECTION			
STRUCTURE B-70-409			
DESIGNED BY	DRAWN BY	CHECKED BY	DATE
	WJR	COO, JLR/BJB	
EAST ABUTMENT			SHEET 7
			695

*William C. Decker* 12/8/16

STATE PROJECT NUMBER

1517-07-80

Addendum No. 01  
ID 1517-07-80  
Revised Sheet 733  
December 8, 2016



8

8

*William C. Decker* LBS 12/8/16

NO.	DATE	REVISION	BY
1	11/17/16	MATERIAL & MIN. THICKNESS	JLR

STATE OF WISCONSIN  
DEPARTMENT OF TRANSPORTATION  
STRUCTURES DESIGN SECTION

STRUCTURE B-70-409

DRAWN BY: WWR  
CHECKED BY: JLR/BJB

SLOPE PAVING @  
WEST ABUTMENT

SHEET 45

733

GENERAL NOTES

1. ALL MATERIALS AND WORKMANSHIP SHALL CONFORM TO THE STANDARD SPECIFICATIONS FOR HIGHWAY CONSTRUCTION.

2. ALL DIMENSIONS SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS.

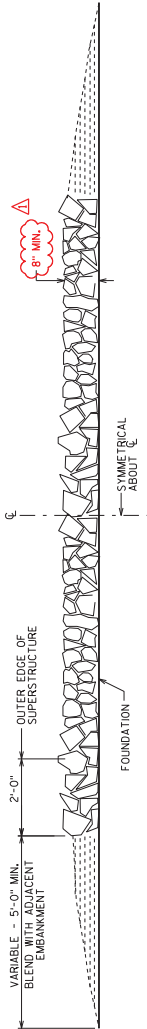
3. WOOD FORMS MAY BE LEFT IN PLACE WHEN OF A QUALITY ACCEPTABLE TO THE ENGINEER.

SCALE =

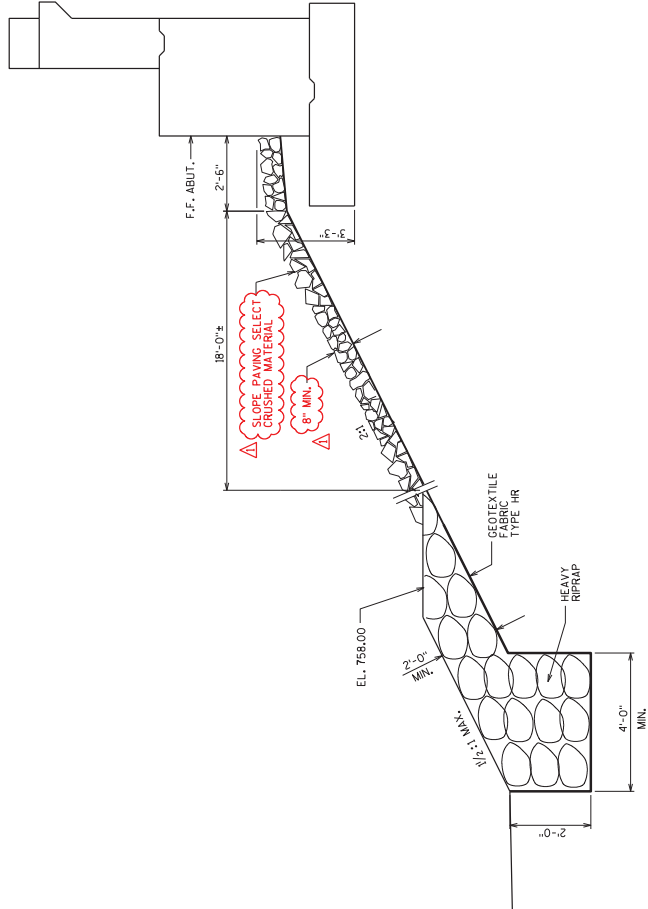
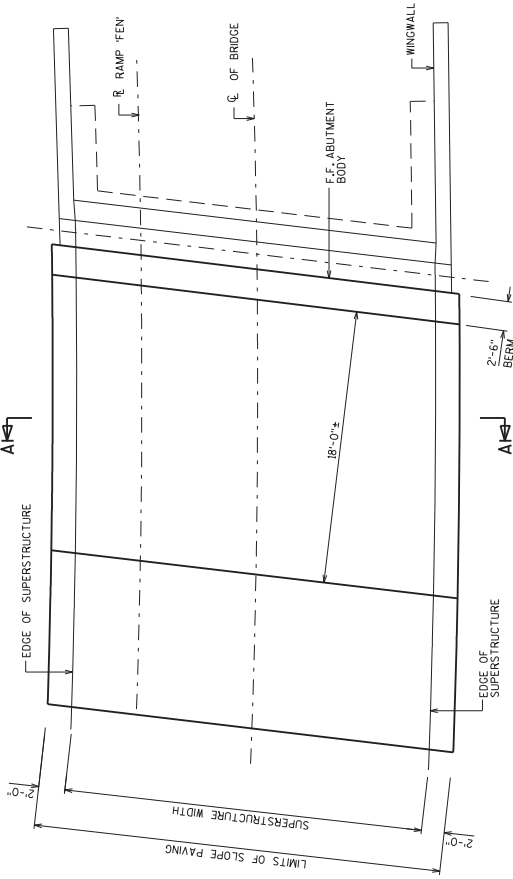
SLPPAVICR6G

STATE PROJECT NUMBER

1517-07-80



SECTION A-A



Addendum No. 01  
 ID 1517-07-80  
 Revised Sheet 734  
 December 8, 2016

8

8

*William C. Decker* L.S. 12/8/16

NO.	DATE	REVISION	BY
1	11/17/16	MATERIAL & MIN. THICKNESS	JLR

STATE OF WISCONSIN  
 DEPARTMENT OF TRANSPORTATION  
 STRUCTURES DESIGN SECTION

STRUCTURE B-70-409

DRAWN BY: WWR  
 CHECKED BY: JLR/BIB

SLOPE PAVING @  
 EAST ABUTMENT

SHEET 46

734

GENERAL NOTES

1. ALL CONSTRUCTION MATERIALS AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS.

2. WOOD FORMS MAY BE LEFT IN PLACE WHEN OF A QUALITY ACCEPTABLE TO THE ENGINEER.

SCALE =

SLPPAVCR6G



Proposal Schedule of Items

Proposal ID: 20161213021

Project(s): 1517-07-80

SECTION: 0001

Contract Items

Alt Set ID:

Alt Mbr ID:

Proposal Line Number	Item ID Description	Approximate Quantity and Units	Unit Price	Bid Amount
0010	108.4400 CPM Progress Schedule	20.000 EACH	_____.	_____.
0020	201.0105 Clearing **P**	2.000 STA	_____.	_____.
0030	201.0205 Grubbing **P**	2.000 STA	_____.	_____.
0040	203.0100 Removing Small Pipe Culverts	3.000 EACH	_____.	_____.
0050	204.0100 Removing Pavement **P**	16,845.000 SY	_____.	_____.
0060	204.0110 Removing Asphaltic Surface	2,317.000 SY	_____.	_____.
0070	204.0150 Removing Curb & Gutter **P**	581.000 LF	_____.	_____.
0080	204.0180 Removing Delineators and Markers	10.000 EACH	_____.	_____.
0090	204.0190 Removing Surface Drains	2.000 EACH	_____.	_____.
0100	204.0220 Removing Inlets	16.000 EACH	_____.	_____.
0110	204.0245 Removing Storm Sewer (size) 001. 12-Inch - 18-Inch **P**	729.000 LF	_____.	_____.
0120	204.0245 Removing Storm Sewer (size) 002. 21-Inch - 30-Inch **P**	15.000 LF	_____.	_____.
0130	204.0280 Sealing Pipes	2.000 EACH	_____.	_____.
0140	204.9060.S Removing (item description) 001. Concrete Apron Endwall for Pipe Underdrain	5.000 EACH	_____.	_____.
0150	204.9060.S Removing (item description) 002. Storm Sewer Plug	1.000 EACH	_____.	_____.
0160	205.0100 Excavation Common **P**	50,327.000 CY	_____.	_____.



Proposal Schedule of Items

Proposal ID: 20161213021

Project(s): 1517-07-80

SECTION: 0001 Contract Items

Alt Set ID:

Alt Mbr ID:

Proposal Line Number	Item ID Description	Approximate Quantity and Units	Unit Price	Bid Amount
0170	205.0200 Excavation Rock	100.000 CY	_____.	_____.
0180	206.1000 Excavation for Structures Bridges (structure) 001. B-70-407	LS	LUMP SUM	_____.
0190	206.1000 Excavation for Structures Bridges (structure) 002. B-70-409	LS	LUMP SUM	_____.
0200	206.5000 Cofferdams (structure) 001. B-70-409	LS	LUMP SUM	_____.
0210	210.1100 Backfill Structure Type A **P**	536.000 CY	_____.	_____.
0220	211.0400 Prepare Foundation for Asphaltic Shoulders	33.000 STA	_____.	_____.
0230	213.0100 Finishing Roadway (project) 001. 1517-07-80	1.000 EACH	_____.	_____.
0240	214.0100 Obliterating Old Road	20.000 STA	_____.	_____.
0250	305.0110 Base Aggregate Dense 3/4-Inch	18,028.000 TON	_____.	_____.
0260	305.0120 Base Aggregate Dense 1 1/4-Inch	29,249.000 TON	_____.	_____.
0270	310.0110 Base Aggregate Open-Graded	70.000 TON	_____.	_____.
0280	311.0110 Breaker Run	60,608.000 TON	_____.	_____.
0290	320.0145 Concrete Base 8-Inch	327.000 SY	_____.	_____.
0300	320.0155 Concrete Base 9-Inch **P**	342.000 SY	_____.	_____.
0310	415.0410 Concrete Pavement Approach Slab **P**	241.000 SY	_____.	_____.
0320	416.0610 Drilled Tie Bars	2,170.000 EACH	_____.	_____.





Proposal Schedule of Items

Proposal ID: 20161213021

Project(s): 1517-07-80

SECTION: 0001 Contract Items

Alt Set ID:

Alt Mbr ID:

Proposal Line Number	Item ID Description	Approximate Quantity and Units	Unit Price	Bid Amount
0330	416.0620 Drilled Dowel Bars	273.000 EACH	_____	_____
0340	416.1010 Concrete Surface Drains	12.000 CY	_____	_____
0350	416.1110 Concrete Shoulder Rumble Strips	46,714.000 LF	_____	_____
0360	440.4410 Incentive IRI Ride	7,171.000 DOL	1.00000	7,171.00
0370	455.0605 Tack Coat	134.000 GAL	_____	_____
0380	460.2000 Incentive Density HMA Pavement	3,841.000 DOL	1.00000	3,841.00
0390	460.5224 HMA Pavement 4 LT 58-28 S	6,328.000 TON	_____	_____
0400	465.0120 Asphaltic Surface Driveways and Field Entrances	11.000 TON	_____	_____
0410	465.0315 Asphaltic Flumes	56.000 SY	_____	_____
0420	465.0400 Asphaltic Shoulder Rumble Strips	52,351.000 LF	_____	_____
0430	501.1000.S Ice Hot Weather Concreting	18,325.000 LB	_____	_____
0440	502.3100 Expansion Device (structure) 001. B-70-407	LS	LUMP SUM	_____
0450	502.3100 Expansion Device (structure) 002. B-70-409	LS	LUMP SUM	_____
0460	502.3200 Protective Surface Treatment **P**	263.000 SY	_____	_____
0470	502.3210 Pigmented Surface Sealer	995.000 SY	_____	_____
0480	503.0146 Prestressed Girder Type I 45W-Inch **P**	2,778.000 LF	_____	_____



## Proposal Schedule of Items

Page 4 of 20

Proposal ID: 20161213021

Project(s): 1517-07-80

SECTION: 0001 Contract Items

Alt Set ID:

Alt Mbr ID:

Proposal Line Number	Item ID Description	Approximate Quantity and Units	Unit Price	Bid Amount
0490	505.0400 Bar Steel Reinforcement HS Structures	33,400.000 LB	_____.	_____.
0500	505.0600 Bar Steel Reinforcement HS Coated Structures	423,840.000 LB	_____.	_____.
0510	505.0800.S Bar Steel Reinforcement HS Stainless Structures	2,170.000 LB	_____.	_____.
0520	506.0605 Structural Steel HS	531,198.000 LB	_____.	_____.
0530	506.2605 Bearing Pads Elastomeric Non-Laminated **P**	20.000 EACH	_____.	_____.
0540	506.2610 Bearing Pads Elastomeric Laminated **P**	20.000 EACH	_____.	_____.
0550	506.3015 Welded Stud Shear Connectors 7/8x6-Inch **P**	4,988.000 EACH	_____.	_____.
0560	506.4000 Steel Diaphragms (structure) 002. B-70-409 **P**	40.000 EACH	_____.	_____.
0570	506.6000 Bearing Assemblies Expansion (structure) 002. B-70-409 **P**	10.000 EACH	_____.	_____.
0580	509.5100.S Polymer Overlay	92,141.000 SY	_____.	_____.
0590	511.1200 Temporary Shoring (structure) 001. B-70-407	1,795.000 SF	_____.	_____.
0600	511.1200 Temporary Shoring (structure) 002. B-70-409	2,000.000 SF	_____.	_____.
0610	514.0445 Floor Drains Type GC	1.000 EACH	_____.	_____.
0620	514.2625 Downspout 6-Inch **P**	6.000 LF	_____.	_____.



Proposal Schedule of Items

Proposal ID: 20161213021

Project(s): 1517-07-80

SECTION: 0001 Contract Items

Alt Set ID:

Alt Mbr ID:

Proposal Line Number	Item ID Description	Approximate Quantity and Units	Unit Price	Bid Amount
0630	516.0500 Rubberized Membrane Waterproofing **P**	50.000 SY	_____.	_____.
0640	517.0600 Painting Epoxy System (structure) 001. B-70-407	LS	LUMP SUM	_____.
0650	517.1010.S Concrete Staining (structure) 001. B-70- 407 **P**	11,781.000 SF	_____.	_____.
0660	517.1010.S Concrete Staining (structure) 002. B-70- 409 **P**	20,154.000 SF	_____.	_____.
0670	517.1050.S Architectural Surface Treatment (structure) 001. B-70-407 **P**	3,049.000 SF	_____.	_____.
0680	517.1050.S Architectural Surface Treatment (structure) 002. B-70-409 **P**	3,140.000 SF	_____.	_____.
0690	520.8000 Concrete Collars for Pipe	3.000 EACH	_____.	_____.
0700	521.1012 Apron Endwalls for Culvert Pipe Steel 12-Inch	5.000 EACH	_____.	_____.
0710	522.1015 Apron Endwalls for Culvert Pipe Reinforced Concrete 15-Inch	3.000 EACH	_____.	_____.
0720	522.1024 Apron Endwalls for Culvert Pipe Reinforced Concrete 24-Inch	6.000 EACH	_____.	_____.
0730	524.0624 Apron Endwalls for Culvert Pipe Salvaged 24-Inch	1.000 EACH	_____.	_____.
0740	531.0300.S Noise Barriers Double-Sided Sound Absorptive (structure) 001. N-70-100	10,000.000 SF	_____.	_____.
0750	531.0300.S Noise Barriers Double-Sided Sound Absorptive (structure) 002. N-70-101	3,910.000 SF	_____.	_____.
0760	531.0300.S Noise Barriers Double-Sided Sound Absorptive (structure) 003. N-70-110	15,880.000 SF	_____.	_____.



Proposal Schedule of Items

Proposal ID: 20161213021

Project(s): 1517-07-80

SECTION: 0001 Contract Items

Alt Set ID: Alt Mbr ID:

Proposal Line Number	Item ID Description	Approximate Quantity and Units	Unit Price	Bid Amount
0770	550.0020 Pre-Boring Rock or Consolidated Materials	467.000 LF	_____	_____
0780	550.0500 Pile Points	123.000 EACH	_____	_____
0790	550.1120 Piling Steel HP 12-Inch X 53 Lb	2,685.000 LF	_____	_____
0800	550.1140 Piling Steel HP 14-Inch X 73 Lb	1,230.000 LF	_____	_____
0810	601.0105 Concrete Curb Type A	15.000 LF	_____	_____
0820	601.0409 Concrete Curb & Gutter 30-Inch Type A	858.000 LF	_____	_____
0830	601.0511 Concrete Curb & Gutter Integral 6-Inch Sloped 36-Inch	1,125.000 LF	_____	_____
0840	602.0410 Concrete Sidewalk 5-Inch	5,435.000 SF	_____	_____
0850	603.1132 Concrete Barrier Type S32	245.000 LF	_____	_____
0860	603.1142 Concrete Barrier Type S42	1,946.000 LF	_____	_____
0870	603.1156 Concrete Barrier Type S56	3,650.000 LF	_____	_____
0880	603.1442 Concrete Barrier Type S42C	93.000 LF	_____	_____
0890	603.3113 Concrete Barrier Transition Type NJ32SF to S36	4.000 EACH	_____	_____
0900	603.3535 Concrete Barrier Transition Type S36 to S42	4.000 EACH	_____	_____
0910	603.3559 Concrete Barrier Transition Type S42 to S56	4.000 EACH	_____	_____



Proposal Schedule of Items

Proposal ID: 20161213021

Project(s): 1517-07-80

SECTION: 0001

Contract Items

Alt Set ID:

Alt Mbr ID:

Proposal Line Number	Item ID Description	Approximate Quantity and Units	Unit Price	Bid Amount
0920	603.8000 Concrete Barrier Temporary Precast Delivered	5,475.000 LF	_____.	_____.
0930	603.8125 Concrete Barrier Temporary Precast Installed	24,475.000 LF	_____.	_____.
0950	604.0600 Slope Paving Select Crushed Material **p**	714.000 SY	_____.	_____.
0960	606.0200 Riprap Medium	56.000 CY	_____.	_____.
0970	606.0300 Riprap Heavy	46.000 CY	_____.	_____.
0980	608.0315 Storm Sewer Pipe Reinforced Concrete Class III 15-Inch	182.000 LF	_____.	_____.
0990	608.0324 Storm Sewer Pipe Reinforced Concrete Class III 24-Inch	211.000 LF	_____.	_____.
1000	608.0330 Storm Sewer Pipe Reinforced Concrete Class III 30-Inch	16.000 LF	_____.	_____.
1010	608.0418 Storm Sewer Pipe Reinforced Concrete Class IV 18-Inch	34.000 LF	_____.	_____.
1020	608.0424 Storm Sewer Pipe Reinforced Concrete Class IV 24-Inch	48.000 LF	_____.	_____.
1030	611.0420 Reconstructing Manholes	2.000 EACH	_____.	_____.
1040	611.0615 Inlet Covers Type F	5.000 EACH	_____.	_____.
1050	611.0639 Inlet Covers Type H-S	2.000 EACH	_____.	_____.
1060	611.0642 Inlet Covers Type MS	3.000 EACH	_____.	_____.
1070	611.0654 Inlet Covers Type V	13.000 EACH	_____.	_____.





Proposal Schedule of Items

Proposal ID: 20161213021

Project(s): 1517-07-80

SECTION: 0001

Contract Items

Alt Set ID:

Alt Mbr ID:

Proposal Line Number	Item ID Description	Approximate Quantity and Units	Unit Price	Bid Amount
1080	611.2005 Manholes 5-FT Diameter	1.000 EACH	_____.	_____.
1090	611.3003 Inlets 3-FT Diameter	5.000 EACH	_____.	_____.
1100	611.3004 Inlets 4-FT Diameter	2.000 EACH	_____.	_____.
1110	611.3220 Inlets 2x2-FT	5.000 EACH	_____.	_____.
1120	611.3901 Inlets Median 1 Grate	1.000 EACH	_____.	_____.
1130	611.3902 Inlets Median 2 Grate	1.000 EACH	_____.	_____.
1140	611.8115 Adjusting Inlet Covers	9.000 EACH	_____.	_____.
1150	612.0206 Pipe Underdrain Unperforated 6-Inch	113.000 LF	_____.	_____.
1160	612.0212 Pipe Underdrain Unperforated 12-Inch	313.000 LF	_____.	_____.
1170	612.0406 Pipe Underdrain Wrapped 6-Inch	1,642.000 LF	_____.	_____.
1180	612.0806 Apron Endwalls for Underdrain Reinforced Concrete 6-Inch	4.000 EACH	_____.	_____.
1190	614.0010 Barrier System Grading Shaping Finishing	1.000 EACH	_____.	_____.
1200	614.0150 Anchor Assemblies for Steel Plate Beam Guard	7.000 EACH	_____.	_____.
1210	614.0397 Guardrail Mow Strip Emulsified Asphalt	1,323.000 SY	_____.	_____.
1220	614.0905 Crash Cushions Temporary	7.000 EACH	_____.	_____.
1230	614.0920 Salvaged Rail	244.000 LF	_____.	_____.



Proposal Schedule of Items

Proposal ID: 20161213021

Project(s): 1517-07-80

SECTION: 0001 Contract Items

Alt Set ID: Alt Mbr ID:

Proposal Line Number	Item ID Description	Approximate Quantity and Units	Unit Price	Bid Amount
1240	614.0925 Salvaged Guardrail End Treatments	1.000 EACH	_____.	_____.
1250	614.2300 MGS Guardrail 3	5,792.000 LF	_____.	_____.
1260	614.2500 MGS Thrie Beam Transition	468.000 LF	_____.	_____.
1270	614.2610 MGS Guardrail Terminal EAT	19.000 EACH	_____.	_____.
1280	614.2620 MGS Guardrail Terminal Type 2	11.000 EACH	_____.	_____.
1290	616.0206 Fence Chain Link 6-FT	5,563.000 LF	_____.	_____.
1300	616.0700.S Fence Safety	2,000.000 LF	_____.	_____.
1310	618.0100 Maintenance And Repair of Haul Roads (project) 001. 1517-07-80	1.000 EACH	_____.	_____.
1320	619.1000 Mobilization	1.000 EACH	_____.	_____.
1330	624.0100 Water	791.000 MGAL	_____.	_____.
1340	625.0100 Topsoil	14,235.000 SY	_____.	_____.
1350	625.0500 Salvaged Topsoil	44,117.000 SY	_____.	_____.
1360	627.0200 Mulching	27,078.000 SY	_____.	_____.
1370	628.1504 Silt Fence	1,829.000 LF	_____.	_____.
1380	628.1520 Silt Fence Maintenance	1,829.000 LF	_____.	_____.
1390	628.1905 Mobilizations Erosion Control	22.000 EACH	_____.	_____.
1400	628.1910 Mobilizations Emergency Erosion Control	11.000 EACH	_____.	_____.



Proposal Schedule of Items

Proposal ID: 20161213021

Project(s): 1517-07-80

SECTION: 0001

Contract Items

Alt Set ID:

Alt Mbr ID:

Proposal Line Number	Item ID Description	Approximate Quantity and Units	Unit Price	Bid Amount
1410	628.2004 Erosion Mat Class I Type B	34,991.000 SY	_____	_____
1420	628.7005 Inlet Protection Type A	51.000 EACH	_____	_____
1430	628.7010 Inlet Protection Type B	25.000 EACH	_____	_____
1440	628.7015 Inlet Protection Type C	4.000 EACH	_____	_____
1450	628.7020 Inlet Protection Type D	9.000 EACH	_____	_____
1460	628.7504 Temporary Ditch Checks	713.000 LF	_____	_____
1470	628.7555 Culvert Pipe Checks	163.000 EACH	_____	_____
1480	628.7570 Rock Bags	52.000 EACH	_____	_____
1490	629.0210 Fertilizer Type B	38.000 CWT	_____	_____
1500	630.0120 Seeding Mixture No. 20	1,626.000 LB	_____	_____
1510	630.0200 Seeding Temporary	1,626.000 LB	_____	_____
1520	634.0614 Posts Wood 4x6-Inch X 14-FT	16.000 EACH	_____	_____
1530	634.0616 Posts Wood 4x6-Inch X 16-FT	28.000 EACH	_____	_____
1540	634.0618 Posts Wood 4x6-Inch X 18-FT	24.000 EACH	_____	_____
1550	634.0620 Posts Wood 4x6-Inch X 20-FT	2.000 EACH	_____	_____
1560	634.0808 Posts Tubular Steel 2x2-Inch X 8-FT	7.000 EACH	_____	_____
1570	635.0200 Sign Supports Structural Steel HS	2,162.000 LB	_____	_____



Proposal Schedule of Items

Proposal ID: 20161213021

Project(s): 1517-07-80

SECTION: 0001 Contract Items

Alt Set ID: Alt Mbr ID:

Proposal Line Number	Item ID Description	Approximate Quantity and Units	Unit Price	Bid Amount
1580	636.0100 Sign Supports Concrete Masonry	14.000 CY	_____.	_____.
1590	636.0500 Sign Supports Steel Reinforcement	234.000 LB	_____.	_____.
1600	636.1500 Sign Supports Steel Coated Reinforcement HS	1,110.000 LB	_____.	_____.
1610	637.1220 Signs Type I Reflective SH	2,544.500 SF	_____.	_____.
1620	637.2210 Signs Type II Reflective H	928.630 SF	_____.	_____.
1630	637.2230 Signs Type II Reflective F	222.000 SF	_____.	_____.
1640	638.2102 Moving Signs Type II	1.000 EACH	_____.	_____.
1650	638.2601 Removing Signs Type I	8.000 EACH	_____.	_____.
1660	638.2602 Removing Signs Type II	35.000 EACH	_____.	_____.
1670	638.3000 Removing Small Sign Supports	41.000 EACH	_____.	_____.
1680	638.3100 Removing Structural Steel Sign Supports	8.000 EACH	_____.	_____.
1690	641.1200 Sign Bridge Cantilevered (structure) 001. S-70-257	LS	LUMP SUM	_____.
1700	642.5401 Field Office Type D	1.000 EACH	_____.	_____.
1710	643.0200.S Traffic Control Surveillance and Maintenance (project) 001. 1517-07-80	540.000 DAY	_____.	_____.
1720	643.0300 Traffic Control Drums	31,268.000 DAY	_____.	_____.
1730	643.0420 Traffic Control Barricades Type III	2,515.000 DAY	_____.	_____.



Proposal Schedule of Items

Proposal ID: 20161213021

Project(s): 1517-07-80

SECTION: 0001 Contract Items

Alt Set ID: Alt Mbr ID:

Proposal Line Number	Item ID Description	Approximate Quantity and Units	Unit Price	Bid Amount
1740	643.0705 Traffic Control Warning Lights Type A	3,676.000 DAY	_____.	_____.
1750	643.0715 Traffic Control Warning Lights Type C	11,691.000 DAY	_____.	_____.
1760	643.0800 Traffic Control Arrow Boards	310.000 DAY	_____.	_____.
1770	643.0900 Traffic Control Signs	2,742.000 DAY	_____.	_____.
1780	643.0910 Traffic Control Covering Signs Type I	10.000 EACH	_____.	_____.
1790	643.0920 Traffic Control Covering Signs Type II	10.000 EACH	_____.	_____.
1800	643.1000 Traffic Control Signs Fixed Message	434.000 SF	_____.	_____.
1810	643.1050 Traffic Control Signs PCMS	890.000 DAY	_____.	_____.
1820	643.1051 Traffic Control Signs PCMS with Cellular Communications	1,800.000 DAY	_____.	_____.
1830	643.2000 Traffic Control Detour (project) 001. 1517-07-80	1.000 EACH	_____.	_____.
1840	643.3000 Traffic Control Detour Signs	450.000 DAY	_____.	_____.
1850	645.0120 Geotextile Type HR **P**	176.000 SY	_____.	_____.
1860	646.0106 Pavement Marking Epoxy 4-Inch	127,383.000 LF	_____.	_____.
1870	646.0126 Pavement Marking Epoxy 8-Inch	1,688.000 LF	_____.	_____.
1880	646.0129 Pavement Marking Preformed Plastic 8-Inch	230.000 LF	_____.	_____.
1890	646.0156 Pavement Marking Epoxy 18-Inch	54.000 LF	_____.	_____.



Proposal Schedule of Items

Proposal ID: 20161213021

Project(s): 1517-07-80

SECTION: 0001 Contract Items

Alt Set ID: Alt Mbr ID:

Proposal Line Number	Item ID Description	Approximate Quantity and Units	Unit Price	Bid Amount
1900	646.0600 Removing Pavement Markings	84,045.000 LF	_____.	_____.
1910	646.0690.S Removing Pavement Markings Water Blasting	9,400.000 LF	_____.	_____.
1920	646.0841.S Pavement Marking Grooved Wet Reflective Contrast Tape 4-Inch	18,214.000 LF	_____.	_____.
1930	646.0843.S Pavement Marking Grooved Wet Reflective Contrast Tape 8-Inch	23,036.000 LF	_____.	_____.
1940	647.0159 Pavement Marking Arrows Preformed Plastic Type 1	1.000 EACH	_____.	_____.
1950	647.0162 Pavement Marking Arrows Preformed Plastic Type 2R	1.000 EACH	_____.	_____.
1960	647.0169 Pavement Marking Arrows Preformed Plastic Type 2	1.000 EACH	_____.	_____.
1970	647.0179 Pavement Marking Arrows Preformed Plastic Type 3	1.000 EACH	_____.	_____.
1980	647.0196 Pavement Marking Arrows Epoxy Type 5	10.000 EACH	_____.	_____.
1990	647.0359 Pavement Marking Words Preformed Plastic	3.000 EACH	_____.	_____.
2000	647.0726 Pavement Marking Diagonal Epoxy 12-Inch	446.000 LF	_____.	_____.
2010	649.0400 Temporary Pavement Marking Removable Tape 4-Inch	18,686.000 LF	_____.	_____.
2020	649.0402 Temporary Pavement Marking Paint 4-Inch	43,973.000 LF	_____.	_____.
2030	649.0802 Temporary Pavement Marking Paint 8-Inch	3,869.000 LF	_____.	_____.





Proposal Schedule of Items

Proposal ID: 20161213021

Project(s): 1517-07-80

SECTION: 0001

Contract Items

Alt Set ID:

Alt Mbr ID:

Proposal Line Number	Item ID Description	Approximate Quantity and Units	Unit Price	Bid Amount
2040	649.0803 Temporary Pavement Marking Epoxy 8-Inch	2,699.000 LF	_____.	_____.
2050	649.2100 Temporary Raised Pavement Markers Type I	387.000 EACH	_____.	_____.
2060	652.0125 Conduit Rigid Metallic 2-Inch **P**	141.000 LF	_____.	_____.
2070	652.0225 Conduit Rigid Nonmetallic Schedule 40 2-Inch **P**	21,668.000 LF	_____.	_____.
2080	653.0180 Pull Boxes Steel Communications (inch) 001. 24x36-Inch	4.000 EACH	_____.	_____.
2090	653.0220 Junction Boxes 18x6x6-Inch	6.000 EACH	_____.	_____.
2100	653.0222 Junction Boxes 18x12x6-Inch	2.000 EACH	_____.	_____.
2110	654.0107 Concrete Bases Type 7	67.000 EACH	_____.	_____.
2120	655.0610 Electrical Wire Lighting 12 AWG **P**	25,740.000 LF	_____.	_____.
2130	655.0615 Electrical Wire Lighting 10 AWG	1,409.000 LF	_____.	_____.
2140	655.0620 Electrical Wire Lighting 8 AWG **P**	45,319.000 LF	_____.	_____.
2150	655.0625 Electrical Wire Lighting 6 AWG	4,227.000 LF	_____.	_____.
2160	655.0625 Electrical Wire Lighting 6 AWG **P**	173,512.000 LF	_____.	_____.
2170	655.0630 Electrical Wire Lighting 4 AWG	2,234.000 LF	_____.	_____.
2180	655.0635 Electrical Wire Lighting 2 AWG	6,702.000 LF	_____.	_____.



Proposal Schedule of Items

Proposal ID: 20161213021

Project(s): 1517-07-80

SECTION: 0001 Contract Items

Alt Set ID: Alt Mbr ID:

Proposal Line Number	Item ID Description	Approximate Quantity and Units	Unit Price	Bid Amount
2190	656.0200 Electrical Service Meter Breaker Pedestal (location) 001. Sta 1335+40FNE RT	LS	LUMP SUM	_____.
2200	656.0500 Electrical Service Breaker Disconnect Box (location) 001. Sta. 1328+00SB LT	LS	LUMP SUM	_____.
2210	657.0210 Transformer Bases Breakaway 15-17 Inch Bolt Circle	115.000 EACH	_____.	_____.
2220	657.0255 Transformer Bases Breakaway 11 1/2-Inch Bolt Circle	7.000 EACH	_____.	_____.
2230	657.0322 Poles Type 5-Aluminum	18.000 EACH	_____.	_____.
2240	657.0337 Poles Type 17-Aluminum	144.000 EACH	_____.	_____.
2250	657.0710 Luminaire Arms Truss Type 4 1/2-Inch Clamp 12-FT	11.000 EACH	_____.	_____.
2260	657.0730 Luminaire Arms Truss Type 6-Inch Clamp 12-FT	146.000 EACH	_____.	_____.
2270	657.6005.S Anchor Assemblies Light Poles on Structures	6.000 EACH	_____.	_____.
2280	659.1120 Luminaires Utility LED B	11.000 EACH	_____.	_____.
2290	659.1125 Luminaires Utility LED C	142.000 EACH	_____.	_____.
2300	659.1130 Luminaires Utility LED D	4.000 EACH	_____.	_____.
2310	670.0100 Field System Integrator	LS	LUMP SUM	_____.
2320	670.0200 ITS Documentation	LS	LUMP SUM	_____.
2330	671.0142 Conduit HDPE 4-Duct 2-Inch	1,885.000 LF	_____.	_____.



## Proposal Schedule of Items

Page 16 of 20

Proposal ID: 20161213021

Project(s): 1517-07-80

SECTION: 0001 Contract Items

Alt Set ID:

Alt Mbr ID:

Proposal Line Number	Item ID Description	Approximate Quantity and Units	Unit Price	Bid Amount
2340	671.0232 Conduit HDPE Directional Bore 3-Duct 2-Inch	575.000 LF	_____.	_____.
2350	671.0242 Conduit HDPE Directional Bore 4-Duct 2-Inch	840.000 LF	_____.	_____.
2360	671.0300 Fiber Optic Cable Marker	18.000 EACH	_____.	_____.
2370	672.0100 Base ITS Controller Cabinet	1.000 EACH	_____.	_____.
2380	673.0105 Communication Vault Type 1	7.000 EACH	_____.	_____.
2390	673.0200.S Install ITS Field Cabinet	1.000 EACH	_____.	_____.
2400	673.0225.S Install Pole Mounted Cabinet	1.000 EACH	_____.	_____.
2410	674.0200 Cable Microwave Detector	7,701.000 LF	_____.	_____.
2420	675.0300 Install Mounted Controller Microwave Detector Assembly	8.000 EACH	_____.	_____.
2430	675.0400.S Install Ethernet Switch	2.000 EACH	_____.	_____.
2440	678.0006 Install Fiber Optic Cable Outdoor Plant 6-CT	2,159.000 LF	_____.	_____.
2450	678.0072 Install Fiber Optic Cable Outdoor Plant 72-CT	15,070.000 LF	_____.	_____.
2460	678.0200 Fiber Optic Splice Enclosure	4.000 EACH	_____.	_____.
2470	678.0300 Fiber Optic Splice	312.000 EACH	_____.	_____.
2480	678.0400 Fiber Optic Termination	52.000 EACH	_____.	_____.
2490	678.0500 Communication System Testing	LS	LUMP SUM	_____.



Proposal Schedule of Items

Proposal ID: 20161213021

Project(s): 1517-07-80

SECTION: 0001 Contract Items

Alt Set ID:

Alt Mbr ID:

Proposal Line Number	Item ID Description	Approximate Quantity and Units	Unit Price	Bid Amount
2500	690.0150 Sawing Asphalt	3,152.000 LF	_____.	_____.
2510	690.0250 Sawing Concrete	8,395.000 LF	_____.	_____.
2520	715.0415 Incentive Strength Concrete Pavement	8,803.000 DOL	1.00000	8,803.00
2530	715.0502 Incentive Strength Concrete Structures	14,850.000 DOL	1.00000	14,850.00
2540	ASP.1T0A On-the-Job Training Apprentice at \$5.00/HR	2,100.000 HRS	5.00000	10,500.00
2550	ASP.1T0G On-the-Job Training Graduate at \$5.00/HR	5,760.000 HRS	5.00000	28,800.00
2560	SPV.0035 Special 001. Roadway Embankment	19,748.000 CY	_____.	_____.
2570	SPV.0035 Special 700. Modified High Performance Concrete (HPC) Masonry Bridges	2,441.000 CY	_____.	_____.
2580	SPV.0045 Special 200. Maintain and Remove Traffic Control Drums Left in Place	218,200.000 DAY	_____.	_____.
2590	SPV.0045 Special 201. Maintain and Remove Traffic Control Barricades Type III Left in Place	6,868.000 DAY	_____.	_____.
2600	SPV.0045 Special 202. Maintain and Remove Traffic Control Warning Lights Type A Left in Place	11,000.000 DAY	_____.	_____.
2610	SPV.0045 Special 203. Maintain and Remove Traffic Control Warning Lights Type C Left in Place	31,255.000 DAY	_____.	_____.
2620	SPV.0045 Special 204. Maintain and Remove Traffic Control Signs Left in Place	40,435.000 DAY	_____.	_____.
2630	SPV.0060 Special 100. Drain Slotted Vane Type A	1.000 EACH	_____.	_____.



Proposal Schedule of Items

Proposal ID: 20161213021

Project(s): 1517-07-80

SECTION: 0001 Contract Items

Alt Set ID:

Alt Mbr ID:

Proposal Line Number	Item ID Description	Approximate Quantity and Units	Unit Price	Bid Amount
2640	SPV.0060 Special 200. Traffic Control Close-Open Freeway Entrance Ramp	46.000 EACH	_____.	_____.
2650	SPV.0060 Special 201. Repositioning Traffic Control Devices for Mainline Closure	72.000 EACH	_____.	_____.
2660	SPV.0060 Special 205. Maintain and Remove Crash Cushion Temporary Left in Place	23.000 EACH	_____.	_____.
2670	SPV.0060 Special 250. Removing Traffic Control Cover Type I Sign	35.000 EACH	_____.	_____.
2680	SPV.0060 Special 350. Anchor Bolt Cover Shroud	4.000 EACH	_____.	_____.
2690	SPV.0060 Special 351. Concrete Bases Type 7 Median	4.000 EACH	_____.	_____.
2700	SPV.0060 Special 352. Pull Box Non-conductive 24x42-Inch	9.000 EACH	_____.	_____.
2710	SPV.0060 Special 353. Lighting Control Cabinet - Freeway	2.000 EACH	_____.	_____.
2720	SPV.0060 Special 401. Install Termination Panel	11.000 EACH	_____.	_____.
2730	SPV.0060 Special 402. Remove Radio Link	5.000 EACH	_____.	_____.
2740	SPV.0060 Special 700. Bearings High-Load Multi-Rotational Guided	16.000 EACH	_____.	_____.
2750	SPV.0060 Special 701. Bearings High-Load Multi-Rotational Fixed	4.000 EACH	_____.	_____.
2760	SPV.0060 Special 702. Junction Boxes Fiberglass 18x12x6-Inch	4.000 EACH	_____.	_____.
2770	SPV.0060 Special 703. Stand Pipe System	2.000 EACH	_____.	_____.



Proposal Schedule of Items

Proposal ID: 20161213021

Project(s): 1517-07-80

SECTION: 0001 Contract Items

Alt Set ID:

Alt Mbr ID:

Proposal Line Number	Item ID Description	Approximate Quantity and Units	Unit Price	Bid Amount
2780	SPV.0075 Special 001. Street Sweeping	24.000 HRS	_____.	_____.
2790	SPV.0075 Special 206. Truck Mounted Attenuator With Operator	50.000 HRS	_____.	_____.
2800	SPV.0075 Special 207. Truck Mounted Attenuator Without Operator	50.000 HRS	_____.	_____.
2810	SPV.0090 Special 001. Concrete Curb & Gutter 6-Inch Sloped 60-Inch Type A	150.000 LF	_____.	_____.
2820	SPV.0090 Special 208. Maintain and Remove Concrete Barrier Temporary Precast Left in Place	25,865.000 LF	_____.	_____.
2840	SPV.0090 Special 210. Traffic Control Gawk Screen Furnished	9,450.000 LF	_____.	_____.
2850	SPV.0090 Special 211. Traffic Control Gawk Screen Installed	9,450.000 LF	_____.	_____.
2860	SPV.0090 Special 402. Conduit HDPE 6-Duct, 2-Inch **P**	435.000 LF	_____.	_____.
2870	SPV.0090 Special 403. Tracer Wire 12 AWG	16,194.000 LF	_____.	_____.
2880	SPV.0105 Special 001. Survey Project I.D. 1517-07-80	LS	LUMP SUM	_____.
2890	SPV.0105 Special 010. Removing Cantilever Sign Support (S-70-38)	LS	LUMP SUM	_____.
2900	SPV.0105 Special 014. Geotechnical Instrumentation	LS	LUMP SUM	_____.
2910	SPV.0120 Special 001. Water for Seeded Areas	1,489.000 MGAL	_____.	_____.
2920	SPV.0180 Special 001. Modified High Performance Concrete (HPC) Pavement 9-Inch	9,623.000 SY	_____.	_____.





Proposal Schedule of Items

Proposal ID: 20161213021

Project(s): 1517-07-80

SECTION: 0001 Contract Items

Alt Set ID:

Alt Mbr ID:

Proposal Line Number	Item ID Description	Approximate Quantity and Units	Unit Price	Bid Amount
2930	SPV.0180 Special 002. Modified High Performance Concrete (HPC) Pavement 10-Inch	8,349.000 SY	_____.	_____.
2940	SPV.0180 Special 003. Modified High Performance Concrete (HPC) Pavement 11-Inch	20,053.000 SY	_____.	_____.
2960	654.0105 Concrete Bases Type 5	1.000 EACH	_____.	_____.
2970	671.0112 Conduit HDPE 1-Duct 2-Inch	470.000 LF	_____.	_____.
Section: 0001			Total:	_____.
			Total Bid:	_____.

