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INDEX OF SHEETS

* INCLUDES SHEETS

67A, 68A AND 72A.

- COVER SHEET GENERAL NOTES, INDEX OF SHEETS
- 3-6 SUMMARY OF QUANTITIES
- 7-18 TRAFFIC CONTROL PROTECTION PLAN
- * 19-156 STRUCTURAL SHEETS

IDOT HIGHWAY STANDARDS

	ITOLIWAT STANDANDS
000001-06	ABBREVIATIONS, SYMBOLS, AND PATTERNS
001001-02	REINFORCEMENT BARS, AREAS, WEIGHTS AND SPACING
001006	DECIMAL EQUIVALENTS OF AN INCH AND FOOT
664001-02	FENCE, CHAIN LINK
701400-07	APPROACH TO LANE CLOSURE, FREEWAY/EXPRESSWAY
701401-08	LANE CLOSURE. FREEWAY/EXPRESSWAY
701411-08	LANE CLOSURE, MULTILANE, AT ENTRANCE OR EXIT RAMP, FOR SPEEDS > 45 MPH
701422-06	LANE CLOSURE, MULTILANE, FOR SPEEDS > 45 MPH TO 55 MPH
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- 701428 TRAFFIC CONTROL SETUP AND REMOVAL FREEWAY/EXPRESSWAY
- 701451-02 RAMP CLOSURE FREEWAY/EXPRESSWAY 701901-03 TRAFFIC CONTROL DEVICES

GENERAL NOTES

- 1. THE STANDARDS AND REVISION NUMBERS SHALL APPLY TO THIS PROJECT.
- 2. PLAN DIMENSIONS AND DETAILS RELATIVE TO EXISTING PLANS ARE SUBJECT TO VARIATIONS FOUND IN THE FIELD. THE CONTRACTOR SHALL FIELD VERIFY EXISTING DIMENSIONS AND DETAILS AFFECTING NEW CONSTRUCTION AND MAKE NECESSARY ADJUSTMENTS PRIOR TO CONSTRUCTION OR ORDERING MATERIALS. ANY ADJUSTMENTS PROPOSED BY THE CONTRACTOR MUST BE APPROVED BY THE ENGINEER. SUCH VARIATIONS SHALL NOT BE CAUSE FOR ADDITIONAL COMPENSATION FOR A CHANGE IN THE SCOPE OF WORK, HOWEVER, THE CONTRACTOR WILL BE PAID FOR THE QUANTITY ACTUALLY FURNISHED BASED UPON THE UNIT PRICE.
- 3. THE ILLINOIS DEPARTMENT OF TRANSPORTATION STRONGLY ENCOURAGES THE PRIME CONTRACTOR AND THEIR APPROVED SUB-CONTRACTORS TO HIRE MINORITY, WOMEN AND DISADVANTAGED INDIVIDUALS FROM ITS FEDERALLY FUNDED HIGHWAY CONSTRUCTION CAREERS TRAINING PROGRAM (HCCTP) TO HELP MEET WORKFORCE AND TRAINEE GOALS. THIS PROGRAM IS TRAINING MINORITIES, WOMEN AND DISADVANTAGED INDIVIDUALS IN HIGHWAY CONSTRUCTION-RELATED SKILLS, E.G. MATH FOR THE TRADES, JOB READINESS. TECHNICAL SKILLS COURSEWORK (CARPENTRY, CONCRETE FLATWORK, BLUEPRINT READING, SITE PLANS, SITE WORK, TOOL USE, ETC.) AND OSHA IO HOUR CERTIFICATION. TO PREPARE THEM FOR A CAREER IN THE HIGHWAY CONSTRUCTION TRADES ARE WELL-TRAINED AND READY TO BECOME PRODUCTIVE ENTRY-LEVEL CONSTRUCTION WORKERS.

PLEASE CONTACT THE DISTRICT 8 EEO OFFICE AT 618-346-3360 AND/OR THE HCCTP COORDINATOR AT 618-874-6528 TO LEARN MORE ABOUT THE PROGRAM AND FOR ASSISTANCE IN MEETING WORKFORCE AND TRAINEE GOALS.

- 4. FOR INFORMATION ABOUT THE OWNERSHIP OF THE PROPERTY UNDER THE MLK STRUCTURE IN MISSOURI, CONTACT JOHN CLARK AT 314-409-4885.
- 5. ILLINOIS STATE LAW REQUIRES A 48 HOUR NOTICE BE GIVEN TO ALL UTILITIES WITHIN THE PROJECT AREA BEFORE DIGGING BY CALLING J.U.L.I.E. AND BY NOTIFYING NON-J.U.L.I.E. MEMBERS INDIVIDUALLY. AGENCIES KNOWN TO HAVE FACILITIES WITHIN THE PROJECT AREA ARE AS AS FOLLOWS:

AMEREN ILLINOIS. AT&T ILLINOIS. EXPLORER PIPELINE COMPANY. ILLINOIS AMERICAN WATER COMPANY. LACLEDE PIPELINE COMPANY. LIGHTCORE. VERIZON BUSINESS. MCLEOD TELECOMMUNICATIONS SERVICES. LLC. QWEST SOLUTIONS CENTER. SPRINT/NEXTEL.

(MEMBERS OF J.U.L.I.E. (800) 892-0123 ARE INDICATED BY . NON-J.U.L.I.E. MEMBERS MUST BE NOTIFIED INDIVIDUALLY.)

- 6. THE PROPOSED PAVEMENT MARKING SHALL MATCH THE LOCATIONS OF THE EXISTING PAVEMENT MARKING, AS DIRECTED BY THE ENGINEER.
- 7. PROPERTY LINES AND/OR EXISTING ROW SHOWN IS APPROXIMATE.
- 8. FIVE CHANGEABLE MESSAGE BOARDS SHALL BE REQUIRED FOR THIS PROJECT. CHANGEABLE MESSAGE BOARDS SHALL BE PLACED FOR ONE WEEK PRIOR TO THE MLK BRIDGE CLOSURE AND SHALL BE REMOVED AND REPLACED WITH STATIC SIGN PANELS DURING THE CLOSURE. THE CHANGEABLE MESSAGE SHALL BE PLACED ALONG I-70 EB IN MISSOURI, WB I-55/70/64, ST. CLAIR AVE., WB I-64, AND IL 203 AS SHOWN IN THE PLANS OR AT THE DIRECTION OF THE ENGINEER.
- 9. ALL ELEVATIONS REFER TO THE NAVO88 VERTICAL DATUM, UNLESS OTHERWISE NOTED.

GENERAL NOTES (CONT.)

- 10. THE CONTRACTOR SHALL FURNISH AND INSTALL WOOD SIGN SUPPORTS IN ACCORDANCE WITH SECTION 730 OF THE STANDARD SPECIFICATIONS.
- 11. FOR STABILIZATION ALL TYPE III BARRICADES SHALL REQUIRED A MINIMUM OF FOUR SAND BAGS PER BARRICADE.
- 12. EXISTING PAVEMENT MARKINGS SHALL BE TEMPORARILY COVERED PRIOR TO APPLICATION OF THE DECK SURFACE TREATMENT, TO PREVENT THE MATERIAL FROM BEING APPLIED TO THE MARKINGS AND TO PROTECT THE REFLECTIVE PROPERTIES OF THE MARKINGS. THE TEMPORARY COVERING MATERIAL USED SHALL BE SUCH THAT IT WILL NOT AFFECT THE MARKING'S REFLECTIVITY WHEN REMOVED AFTER APPLICATION OF THE DECK SURFACE TREATMENT AND PRIOR TO OPENING TO TRAFFIC. COST IS INCLUDED WITH THE DECK SURFACE TREATMENT SPECIFIED.
- EXISTING STRUCTURE PLANS ARE AVAILABLE FOR REVIEW IN THE DISTRICT OFFICE. CONTACT TIM PADGETT AT (618) 346-3325
- 14. ALL TURF AREAS DISTRUBED BY THE CONTRACTOR SHALL BE SEEDED WITH THE APPROPRIATE EROSION CONTROL. AS DIRECTED BY THE ENGINEER, AT THE CONTRACTOR'S EXPENSE.
- 15. ACCESS TO THE STATE OF ILLINOIS ROW UNDER THE STRUCTURE WEST OF THE LEVEE ON THE ILLINOIS SIDE WILL BE FROM THE MISSISSIPPI RIVER. THE CONTRACTOR WILL BE ALLOWED TO OFF-LOAD MATERIALS AND EQUIPMENT FROM THE RIVER ACCESS AFTER PROCURING A PERMIT FROM THE ILLINOIS DEPARTMENT OF NATURAL RESOURCES (INDR), BUT SHALL NOT DISTURB THE LEVEE IN ANY WAY.
- 16. THE CONTRACTOR SHALL NOTE THAT THE PROPERTY BENEATH THE STRUCTURE BETWEEN FIRST STREET AND SECOND STREET IS OWNED BY BLOCK 25 WITH LIMITED STATE ROW AROUND THE PIER FOUNDATIONS. THE STATE MAINTAINS AIR RIGHTS ABOVE DATUM 475.69 USCS IN THESE AREAS. CONSTRUCTION ACCESS WILL BE LIMITED TO STATE ROW AND AIR RIGHTS ONLY AT THIS LOCATION.

COMMITMENTS

- A. LANE CLOSURES THE CONTRACTOR WILL NOT BE ALLOWED TO CLOSE THE ROAD OR ANY TRAFFIC LANES ON LEONOR K SULLIVAN, COMMERCIAL STREET, IST STREET, 2ND STREET, AND LACLEDE'S LANDING BLVD THURSDAY THRU SUNDAY NIGHTS, HOLIDAYS, THE WEDNESDAY BEFORE THANKSCIVING, OR FOR MAJOR EVENTS AS DETERMINED BY THE ENGINEER FROM 4:00 PM TO 4:00 AM.
- B. IF THE WROUGHT IRON FENCE ON STATE ROW UNDER THE MLK STRUCTURE NEEDS TO BE REMOVED FOR ANY REASON, THE CONTRACTOR SHALL EXERCISE CARE WHEN REMOVING. THE CONTRACTOR SHALL BE RESPONSIBLE FOR RE-ENACTING THE WROUGHT IRON FENCE TO ITS ORIGINAL CONDITION. ANY COST RELATED TO THIS WORK SHALL BE AT THE CONTRACTOR'S EXPENSE.

	LIN ENGINEERING,LTD. Consulting Engineers	USER NAME = OUSERO PLOT SCALE > OSCALEO	DESIGNED - DRAWN - CHECKED -	JAH JAH GRE	REVISED - REVISED - REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION		GENERAL NO MLK BRIDGE OVER MIS	DTES SSISSIP
l	Chathan, Janob	PLOT DATE + SDATE	DATE ~	03/2014	REVISED -		SCALE: N.T.S.	SHEET NO. 1 OF 1 SHEETS	STA.

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						CONSTRUC	TION CODE			
				0014	0040	0043				
CODE	ITEM	UNIT	TOTAL	BRIDGE REHAB	SIGN STRUCTURES	UTILITIES				4
NO.				80/20 FEDIST		80/20 FED/ST				-
				0-100 (00] =)						
20100210	TREE REMOVAL (OVER 15 UNITS DIAMETER)	UNIT	300	300						-
28100813	STONE DUMPED RIPRAP. CLASS A7	TON	35,085	35,085						
20100015	STORE DOWERD RITRAL, CLASS AT		33,005	557405						-
										-
50102400	CONCRETE REMOVAL	CU. YD.	109,1	105.8	3.3					
										1
										-
50157300	PROTECTIVE SHIELD	S0. YD.	617	617						4
50300100	FLOOR DRAINS	EACH	100	100]
										-
							 	1		4
50300255	CONCRETE SUPERSTRUCTURE	CU. YD.	110	105.2	4.8					
				2.070						-
50300260	BRIDGE DECK GROOVING	SO. YD.	3,058	3,058						-
50500105	FURNISHING AND ERECTING STRUCTURAL STEEL	L. SUM	1	tered						
			-				2010 2010 2010 2010 2010 2010 2010 2010			-
										_
50500505	STUD SHEAR CONNECTIONS	EACH	19,740	19,740		_				-
50800205	REINFORCEMENT BARS. EPOXY COATED	POUND	20,850	19,820	1,030					-
50800203	REINFORCEMENT DANS. EFORT COALED		201030	17,020	1,030		· · · · · · · · · · · · · · · · · · ·			-
50800530	MECHANICAL SPLICERS	EACH	6		6		4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4			
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52000110	PREFORMED JOINT STRIP SEAL	FOOT	504	504						_
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52000600	FABRIC REINFORCED ELASTOMERIC TROUGH	FOOT	214	214					NT (0	-
22000000	PROMO NEER ONDER ECADIOMENTE PRODUCT				1000					-
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52100010	ELASTOMERIC BEARING ASSEMBLY, TYPE 1	EACH	35	35						
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LIN ENGINEERING, LTD.	USER NAME < OUSERO	DESIGNED - JAH DRAWN - JAH	REVISED - REVISED -	STATE OF ILLINOIS		SUMMARY OF QUANT MLK BRIDGE OVER MISSISS
	PLOT SCALE + +SCALE+	CHECKED - GRE	REVISED -	DEPARTMENT OF TRANSPORTATION		WILK BRIDGE UVER WISSISS
Chathem, (Rinots	PLOT DATE - SOATES	DATE - 2/2014	REVISED -		SCALE: N.T.S.	SHEET NO. 1 OF 4 SHEETS STA
Chamlern, literola	PLOT DATE > \$04TEs	onconco onc		DEFAMILITE OF MANOI ON AMON		SHEET NO. 1 OF 4 SHEETS

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CODE		UNIT	TOTAL	BRIDGE REHAB	SIGN STRUCTURES	UTILITIES
NO.	ITEM		QUANTITY	80/20 FED/ST		BO/20 FED/ST
59000200	EPOXY CRACK INJECTION	FOOT	176	176		
66400505	CHAIN LINK FENCE, 8 FT	FOOT	1,884	1,884		
66409200	CHAIN LINK GATES, 8'X8' DOUBLE	EACH	4	4		
67100100		L SUM	1			
67000400	ENGINEER'S FIELD OFFICE, TYPE A	CAL MO	12	12		
70106800	CHANGEABLE MESSAGE SIGN	CAL MO	1.5	1.5		
78100105	RAISED REFLECTIVE PAVEMENT MARKER (BRIDGE)	EACH	20	20		
78003130	PREFORMED PLASTIC PAVEMENT MARKING, TYPE 8 - LINE 6"	FOOT	4,065	4,065		
X0320622	FIELD MEASUREMENTS	L SUM	1	1		
X0321519	CONDUIT SUPPORT SYSTEM	L. SUM	1			1
X0325541	REMOVE EXISTING LIGHTING SYSTEM	L. SUM	1	1		
X0325583	REMOVE AND REINSTALL FINGER PLATE JOINT	EACH	3	3		
X0325941	ACCESS LADDER	EACH	33	3		
X0326275 ~	-RAILROAD RIGHT-OF-WAY ENTRY RERMIT	EACH	<u>1</u>	1		
X0326534	REMOVE AND REINSTALL EXISTING ALUMINUM PARAPET	FOOT	1, 905	1, 905		
X5870015	BRIDGE DECK CONCRETE SEALER	S0. FT.	193,439	193,439		
				812		

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SIPPI RIVER	799	18R, DRS-2	ST. CLAIR	156	4
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0000				······································			BRIDGE REHAB	SIGN	UTILITIES	
CODE NO.			ITEM		UNIT	TOTAL QUANTITY		STRUCTURES		-
							80/20 FED/ST	BOIZO FED IST	80/20 FED ST	
X70102	16 TRAFFIC CON	TROL AND PROTECTION.	(SPECIAL)	*****	L. SUM		1			
хлоіон	10 SPEED DIS	PLAY TRAILER			CAL MO	12	12			
X73303	10 OVERHEAD SI	GN STRUCTURE - SPAN,	DUAL MONOTUBE		FOOT	45	-	45		
×78300	T4 CROOVING FO	R RECESSED PAVEMENT	MARKING 7"		FOOT	4,065	4,065			
X82601		LIGHTING SYSTEM			L. SUM	1			-	
					L. 50M	1	1			
Z00018	98 ADJUST AND	REPOSITION BEARINGS			EACH	14	14			
										-
200019	05 STRUCTURAL	STEEL REPAIR		····	POUND	179, 190	179,190			
Z00067	10 BRIDGE DRAI	NAGE SYSTEM REPAIR			EACH	10	10			
200071	01 CONTAINMENT	AND DISPOSAL OF LEA	D PAINT CLEANING RESID	DUES NO. 1	L. SUM	4				
Z00105	01 CLEANING ANI	D PAINTING STEEL BRI	DGE NO. 1		L. SUM	1				
200106	05 CLEANING DR	AINAGE SYSTEM			L. SUM	1	1			
Z00127	54 STRUCTURAL 1	REPAIR OF CONCRETE (DEPTH EQUAL TO OR LESS	THAN 5 IN.)	SQ. FT.	95	95			
Z00162	00 DECK SLAB R	EPAIR (PARTIAL)			S0. YD.	324	324			
Z00167	02 DETOUR SIGN	ING			L, SUM					
						<u>,</u>	1			
Z00188	DO DRAINAGE SYS	STEM			L.SUM	1	1			
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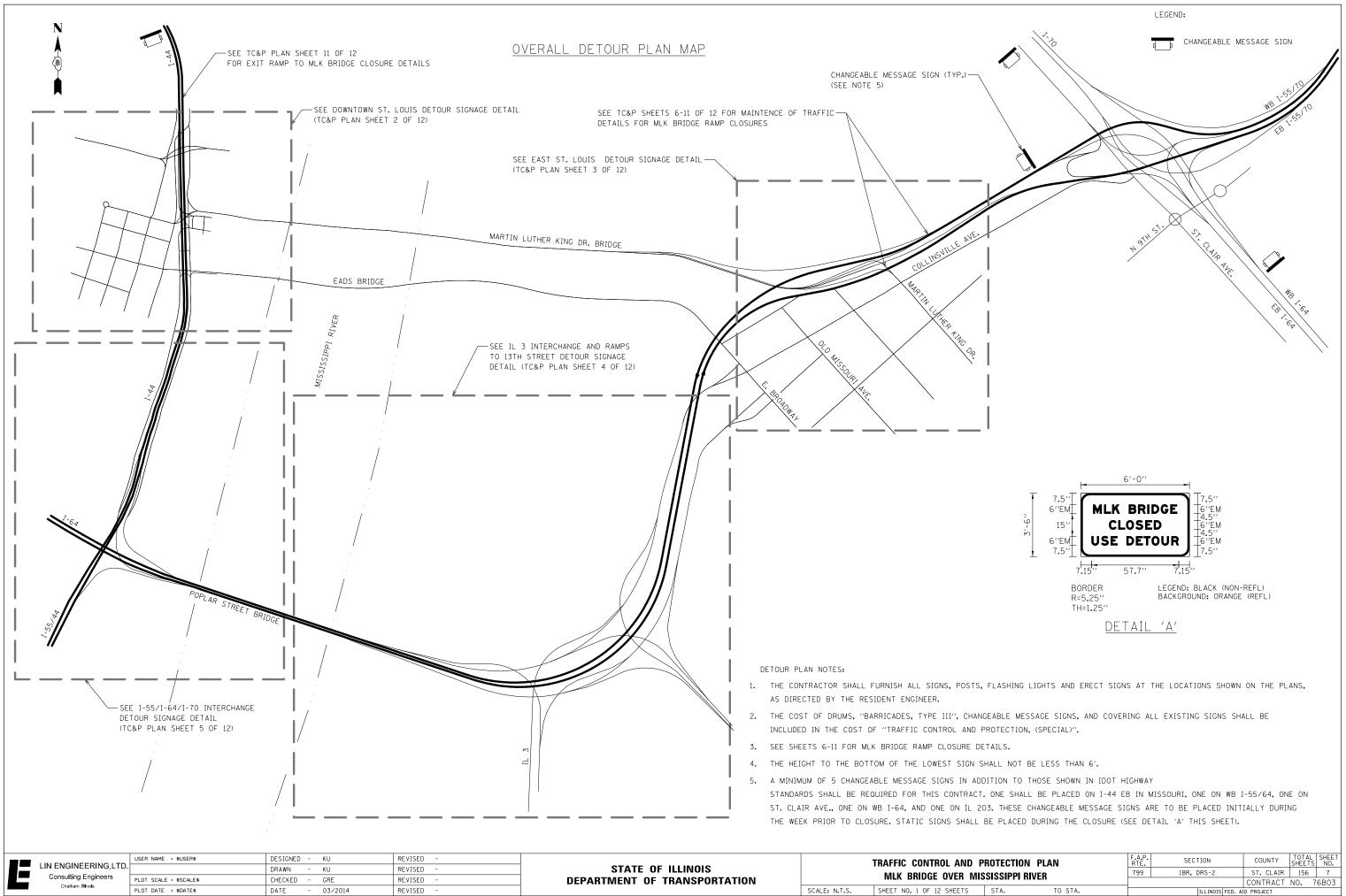
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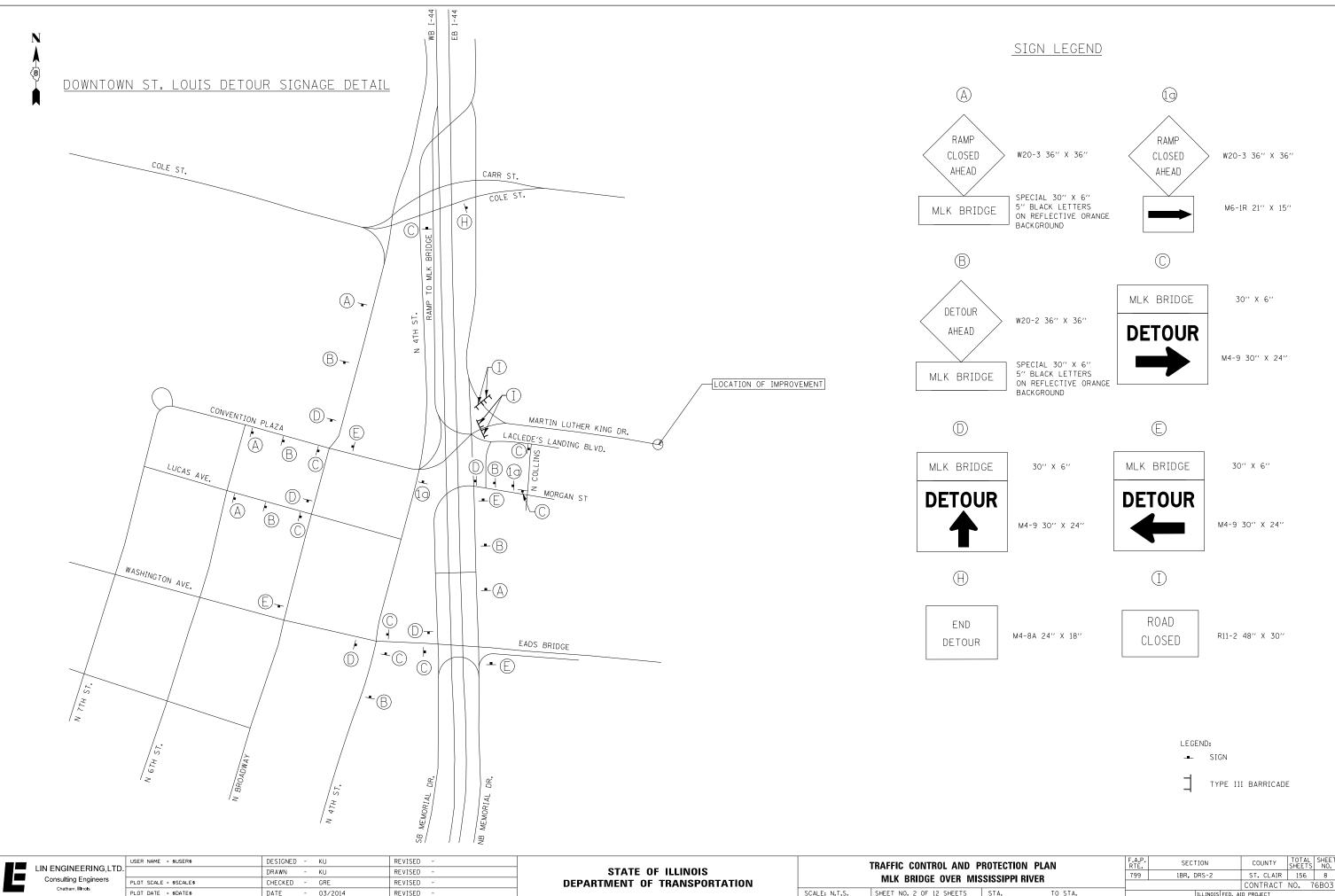
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SIPPI RIVER		18R, DRS-2	ST. CLAIR	156	5
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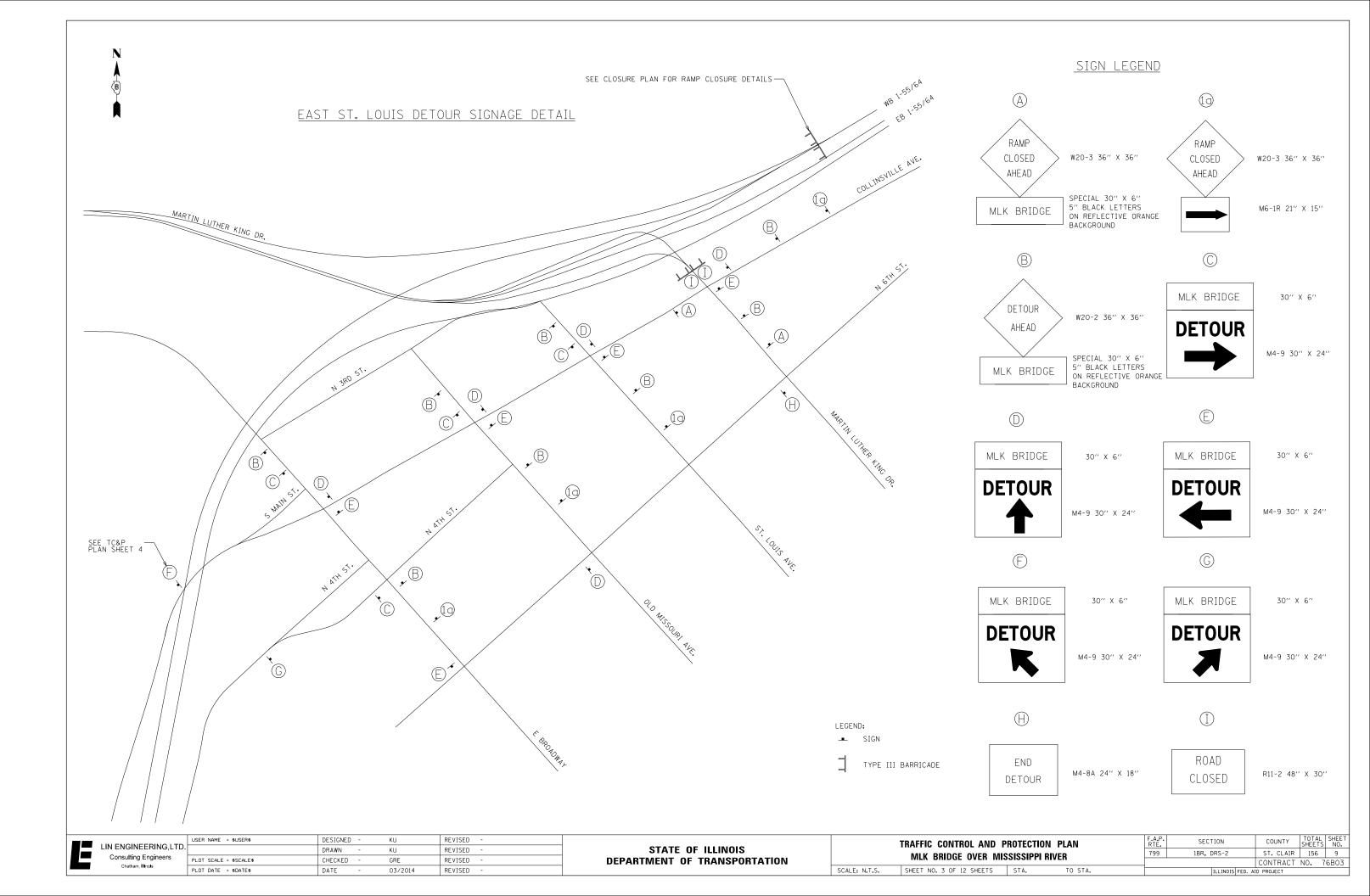
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	CODE					LINETT	TOTAL	BRIDGE REHAB	SIGN	UTILITIES				-
	NO.			ITEM		UNIT	1 OUANTITY	Roles For Lon	STRUCTURES					-
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	70021906	SILICONE JOINT	SEALER 1 5"			FOOT	300	300		· · · · · · · · · · · · · · · · · · ·	1			
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	20020200													-
	20032300	JACKING EXISIIN	IG SUPERSTRUCTURE			L.SUM	1	1						
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			*****											-
	Z0041895	POLYMER CONCRET	E			CU. FT.	5	5						
			*****											-
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	Z0048665	RAILROAD PROTEC	TIVE LIABILITY INSUR	ANCE		L. SUM	1	1						
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	70065700	SLOPE WALL REPA	VIR			SQ. YD.	9.1	9. 1						-
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	70070000	TENDODADY DATED	040 000CC 1800		· · · · · · · · · · · · · · · · · · ·									-
	20012300	TEMPORARY RAILR	CAD CRUSSING			EACH	1	1						
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	X5010110	REMOVAL OF EXIS	STING FILLED GRID DEC	<		L. SUM	1	1						
eb	Toother	TOALLIFE TOAL	ING BROLONG GRADING			HOUR	2500	2500						
۴		1	IING PROGRAM GRADUP											-
	X0327760	STEEL GRID DECK				SQ. FT.	31.026	31.026						
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Consulting Engine	PLOT SCALE	= +SCALE+	CHECKED - GRE	REVISED -			F TRANSPORT	ATION		K BRIDGE OVER M			199 18R, DRS-2	ST. CLAIR 15 CONTRACT NO,
Ghatham, Allinola	PLOT CATE	= \$DATE#	DATE - 3/2014	REVISED -				5	SCALE: N.T.S. SHEE	T NO. 4 OF 4 SHEETS	STA.	TO STA.	ILLINDIS FEC	AID PROJECT



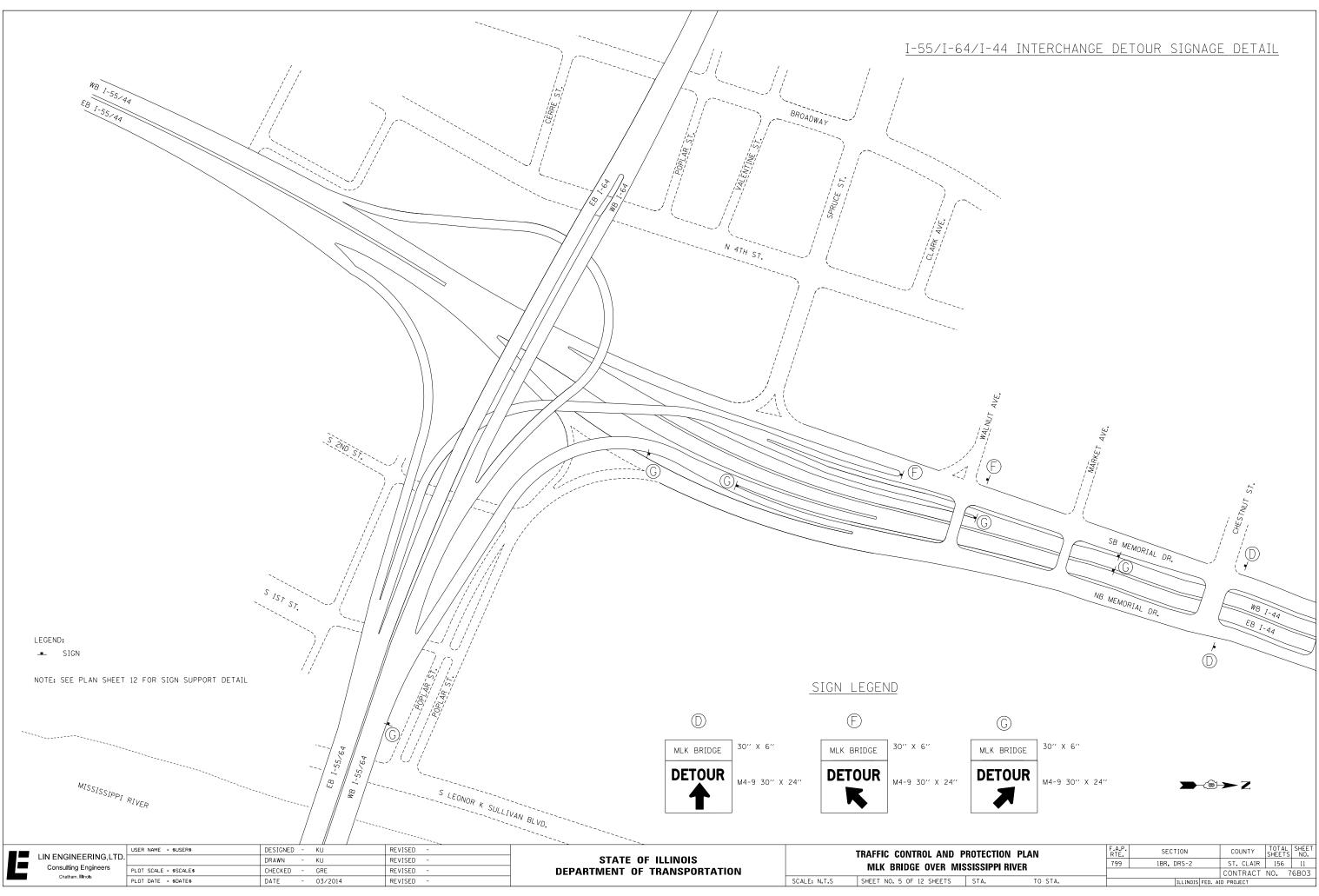


SCALE: N.T.S. SHEET NO. 2 OF 12 SHEETS

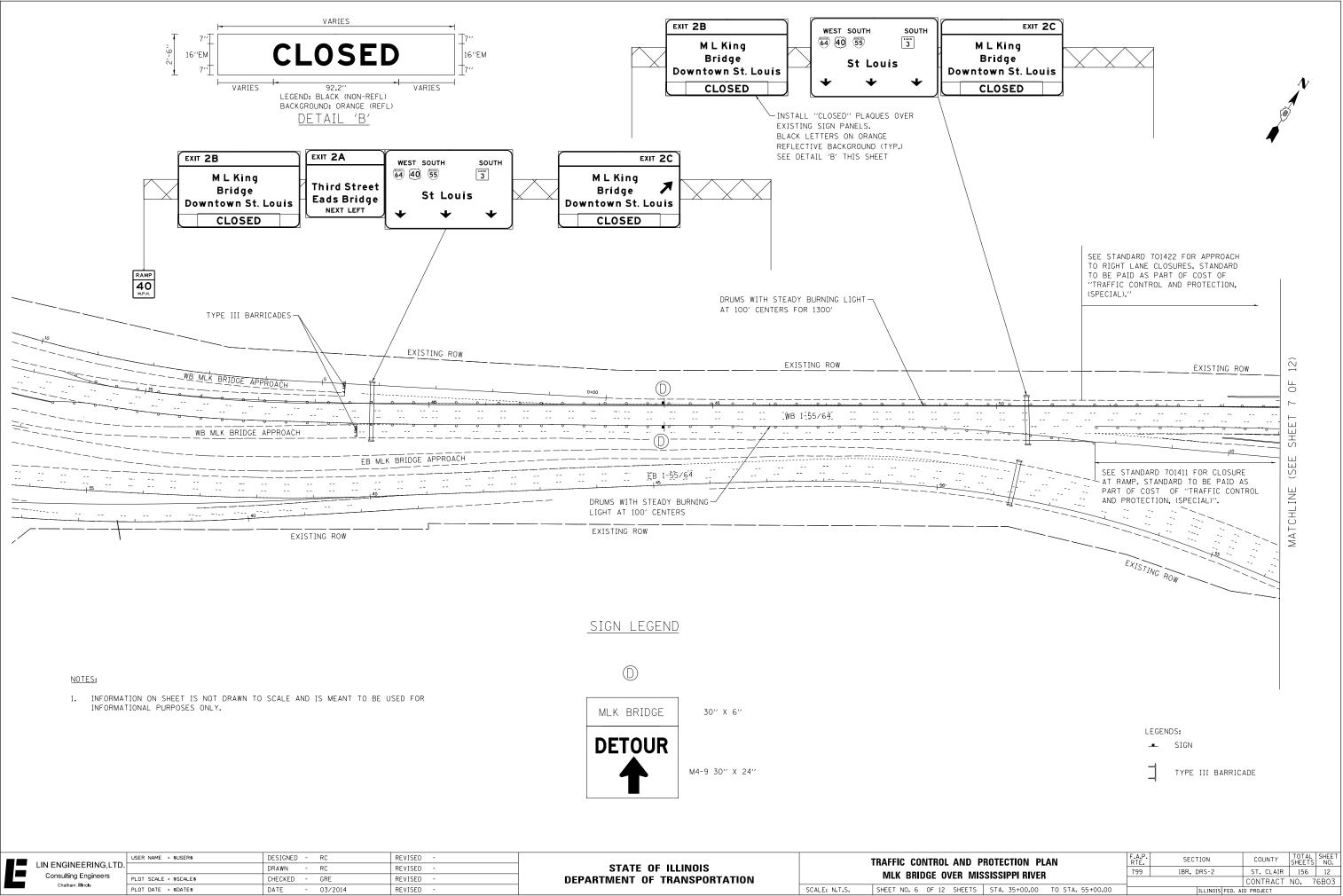
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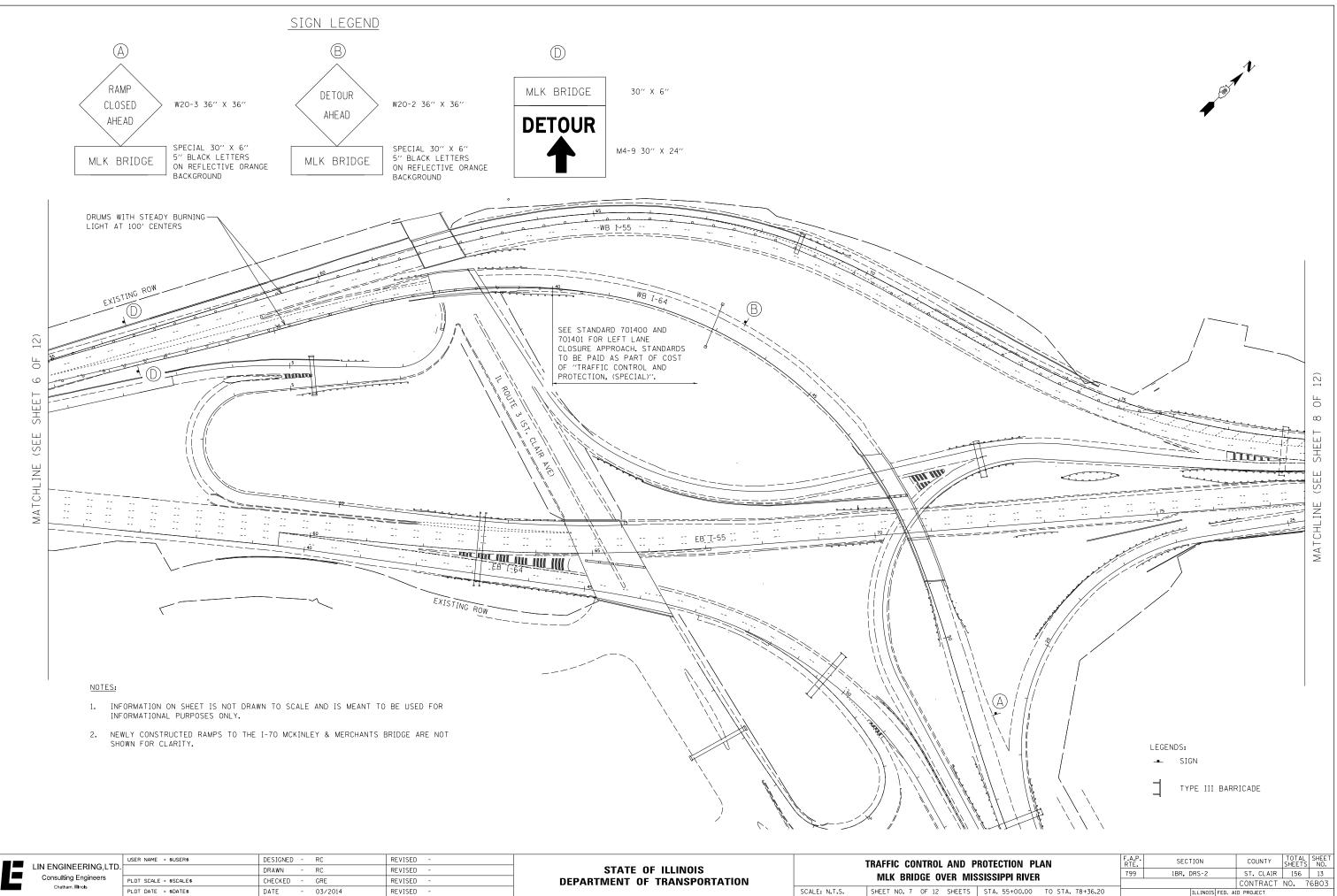
N IL 3 INTER	<u>Change and ramps to 13th street</u> <u>sign legend</u> F	Ē	
	MLK BRIDGE 30" X 6" DETOUR M4-9 30" X 24"		
	G		
	MLK BRIDGE 30" X 6" DETOUR M4-9 30" X 24"	Ē	
POPL			
POPLAR STREET BRIDGE			
Imp 1-55/64 E 1-55/64 E 1-55/64		E E	
NOTE: SIGNS TO BE MOUNTED TO PARAPET WALL AT LOCATIONS ADJACENT TO INTERSTATE BRIDGES AND ELEVATED RAMPS. SEE TC&P SHEET 12 FOR SIGN SUPPORT DETAIL. LEGEND:		E	R:460 R:460
- SIGN			
LIN ENGINEERING,LTD. Consulting Engineers Chatham, Illinois USER NAME = \$USER\$ DESIGNED - KU REVISED - PLOT SCALE = \$SCALE\$ CHECKED - GRE REVISED - PLOT DATE = \$DATE\$ DATE - 03/2014 REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	TRAFFIC CONTROL AND PROTECTION PLAN MLK BRIDGE OVER MISSISSIPPI RIVER SCALE: N.T.S SHEET NO. 4 OF 12 SHEETS STA. TO STA.	F.A.P. RTE. SECTION COUNTY TOTAL SHEETS SHEET NO. 799 1BR, DRS-2 ST. CLAIR 156 10 CONTRACT NO. 76B03 ILLINDIS FED. AID PROJECT



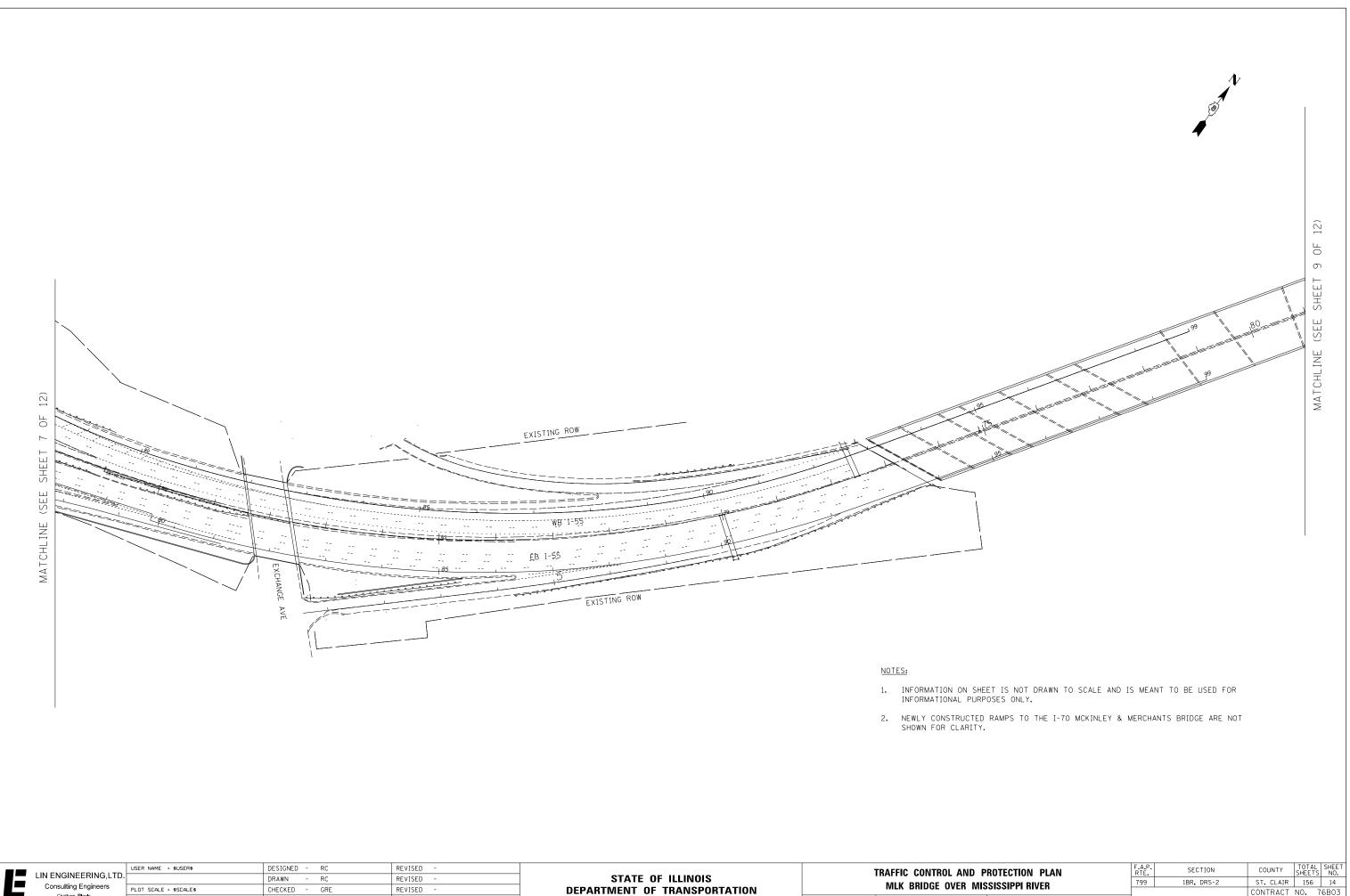
Ρ	ROTECTION PL	AN	RTE.	SECTION	COUNTY	SHEETS	NO.
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ŝ	STA. 35+00.00	TO STA. 55+00.00		ILLINOIS	FED. AI	D PROJECT		



ILLINOIS FED. AID PROJECT



Chatham, Illinois

PLOT DATE = \$DATE\$

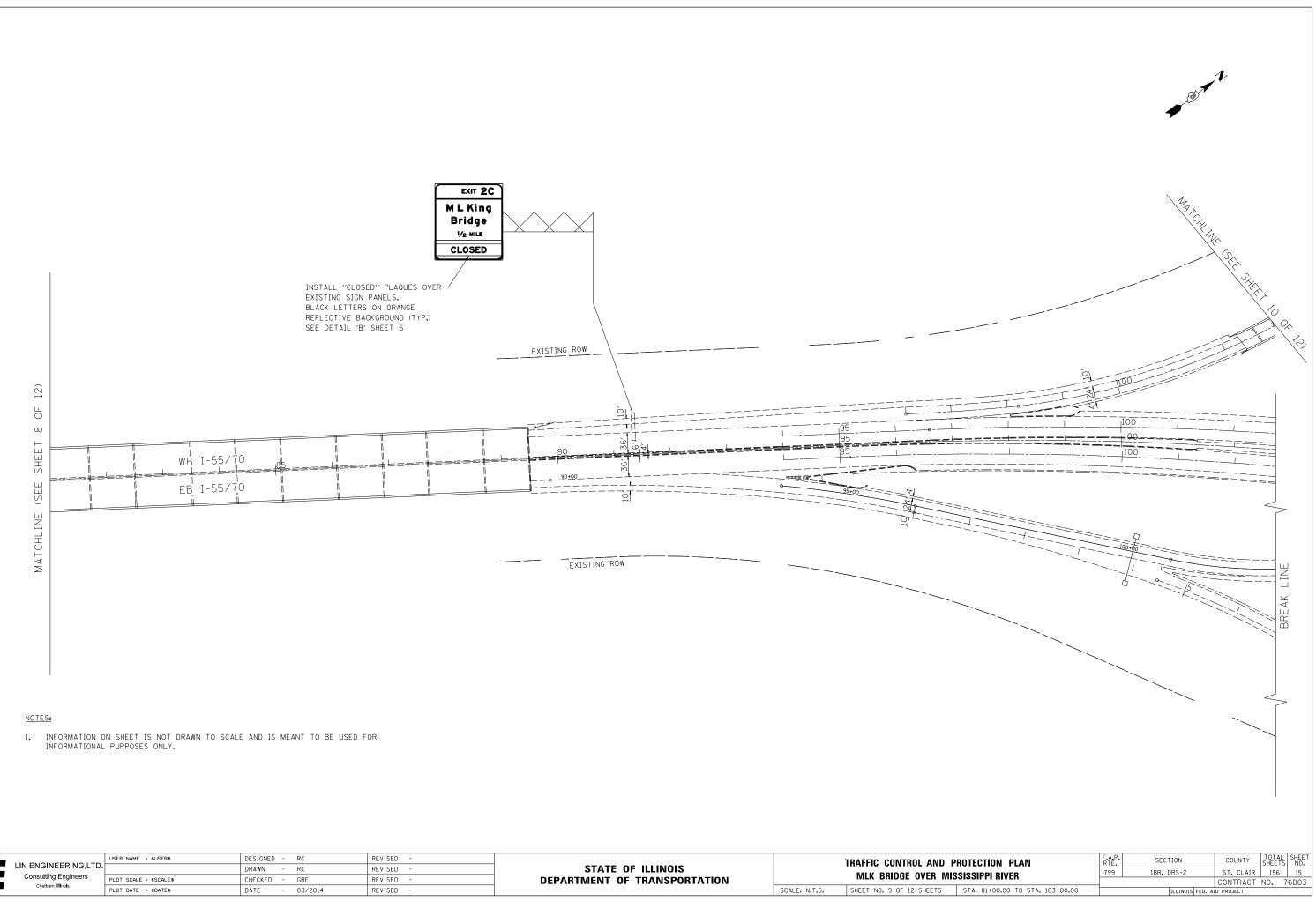
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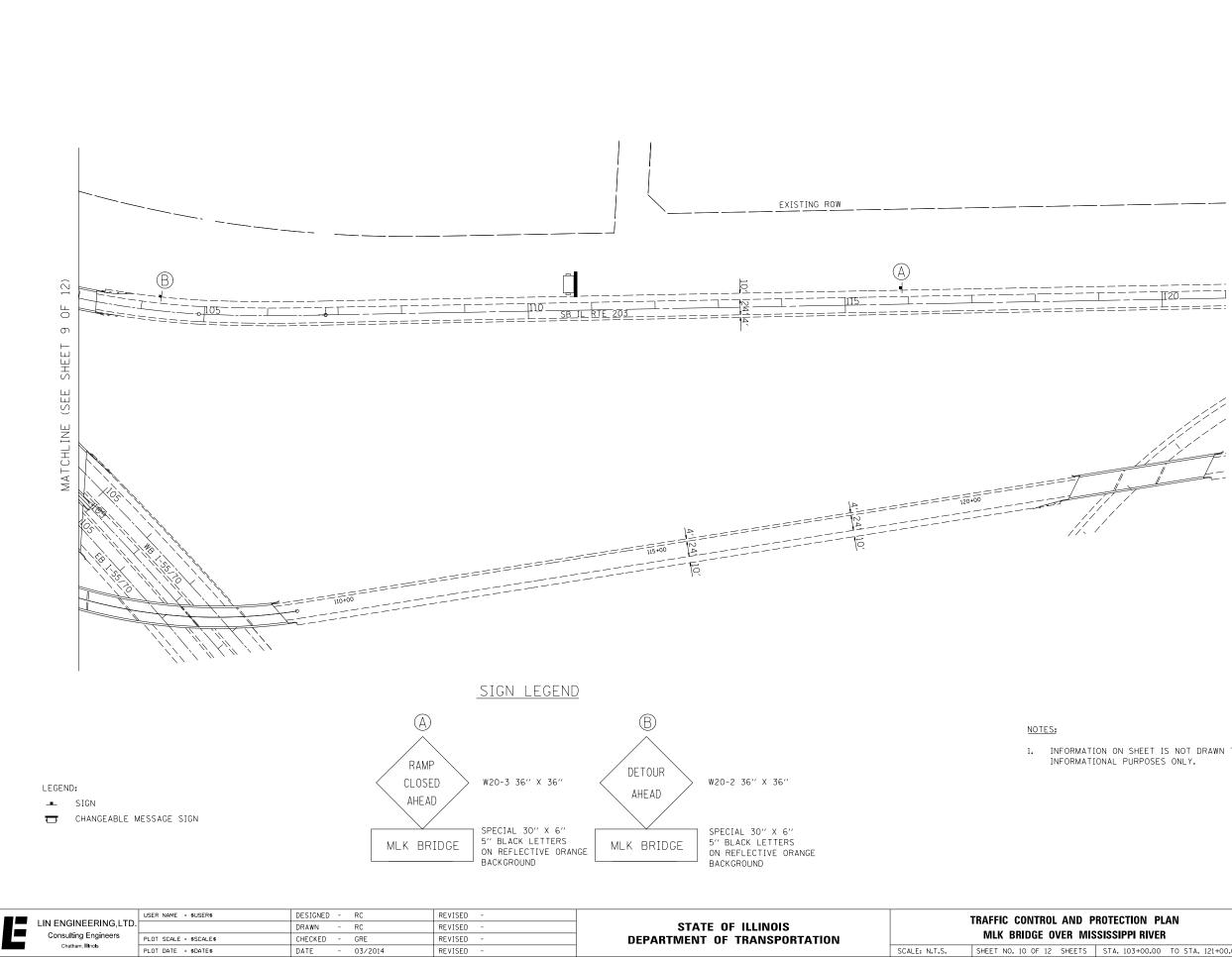
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SCALE: N.T.S. SHEET NO. 8 OF 12 SHEETS

PROTECTION PLAN	RTE.	SECTION	COUNTY	SHEETS	NO.
SSISSIPPI RIVER	799	1BR, DRS-2	ST. CLAIR	156	14
			CONTRACT	NO. 7	6B03
STA. 78+36.20 TO STA. 81+00.00		ILLINOIS FED. /	AID PROJECT		



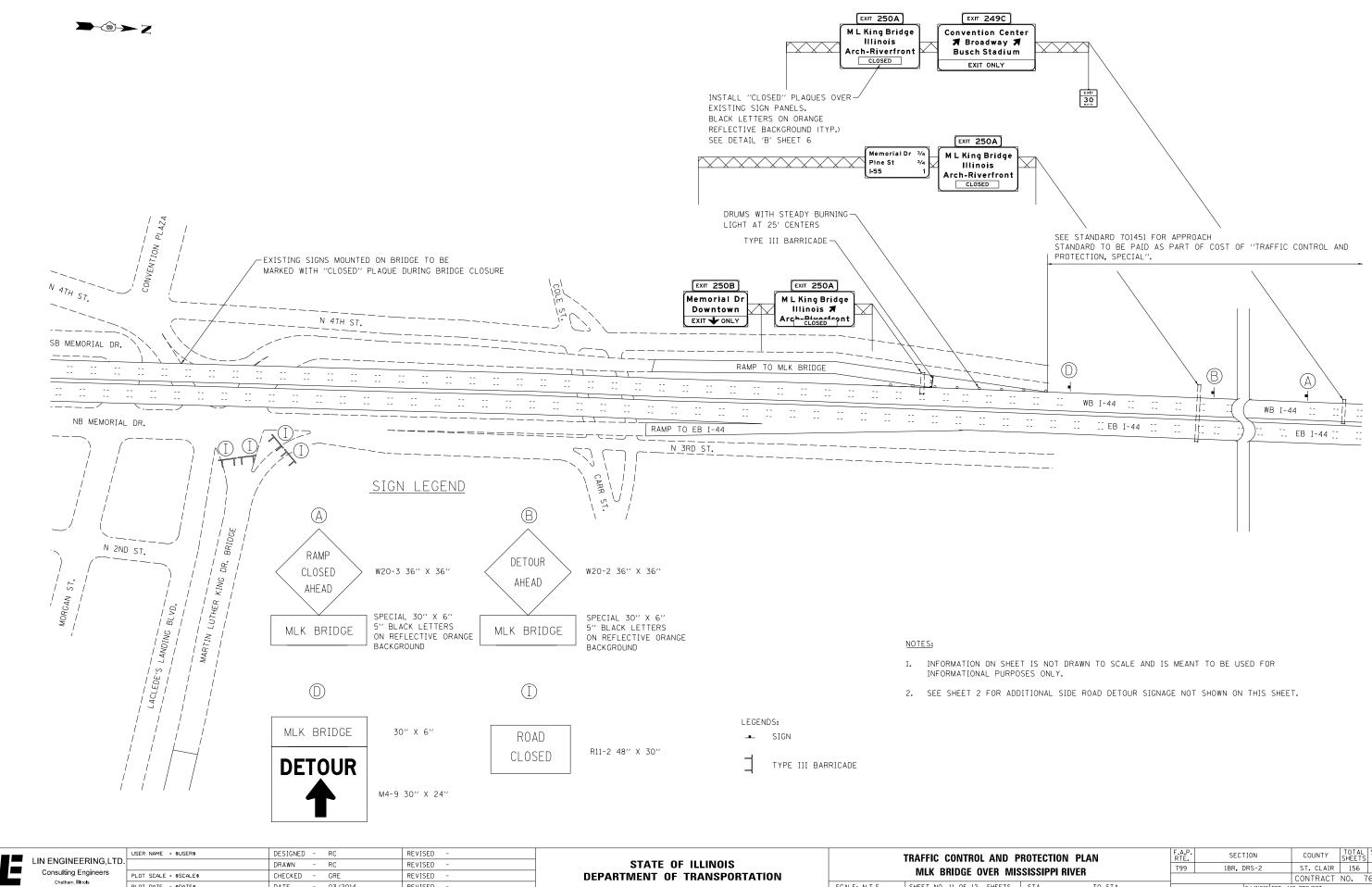
	USER NAME = \$USER\$	DESIGNED - RC	REVISED -			TRAFFIC CONTROL AND PRO	
	•	DRAWN - RC	REVISED -	STATE OF ILLINOIS			
Consulting Engineers	PLOT SCALE = \$SCALE\$	CHECKED - GRE	REVISED -	DEPARTMENT OF TRANSPORTATION	MLK BRIDGE OVER MI		
Chatham, Illinois	PLOT DATE = \$DATE\$	DATE - 03/2014	REVISED -		SCALE: N.T.S.	SHEET NO. 9 OF 12 SHEETS	





1. INFORMATION ON SHEET IS NOT DRAWN TO SCALE AND IS MEANT TO BE USED FOR INFORMATIONAL PURPOSES ONLY.

Ρ	ROTECTION PLAN	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
IISSISSIPPI RIVER			1BR, DRS-2	ST. CLAIR	156	16
110				CONTRACT	NO. 7	6B03
;	STA. 103+00.00 TO STA. 121+00.00		ILLINOIS FED. A	ID PROJECT		



CHECKED PLOT DATE = \$DATE\$ DATE

- 03/2014

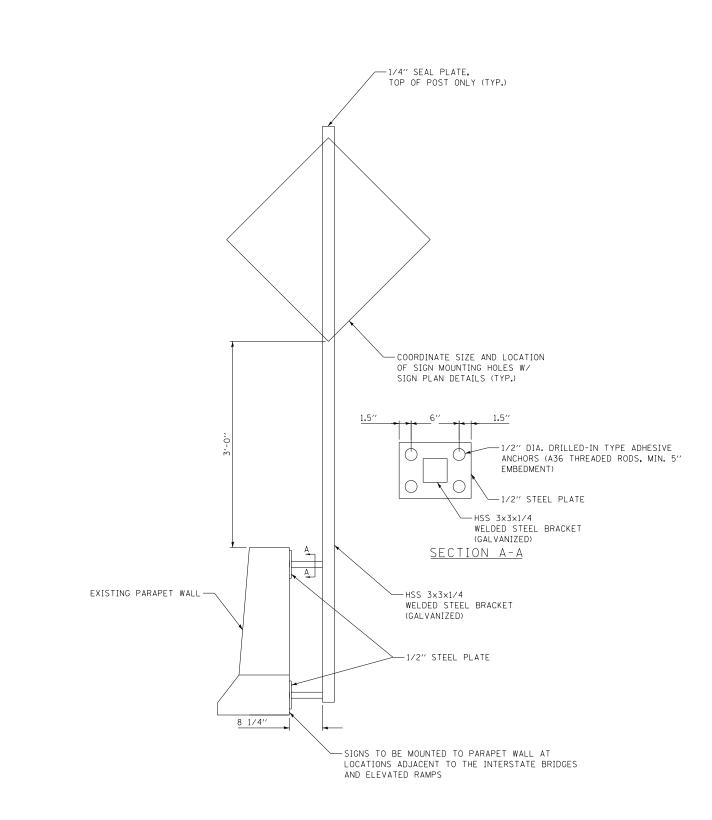
REVISED

DEPARTMENT OF TRANSPORTATION

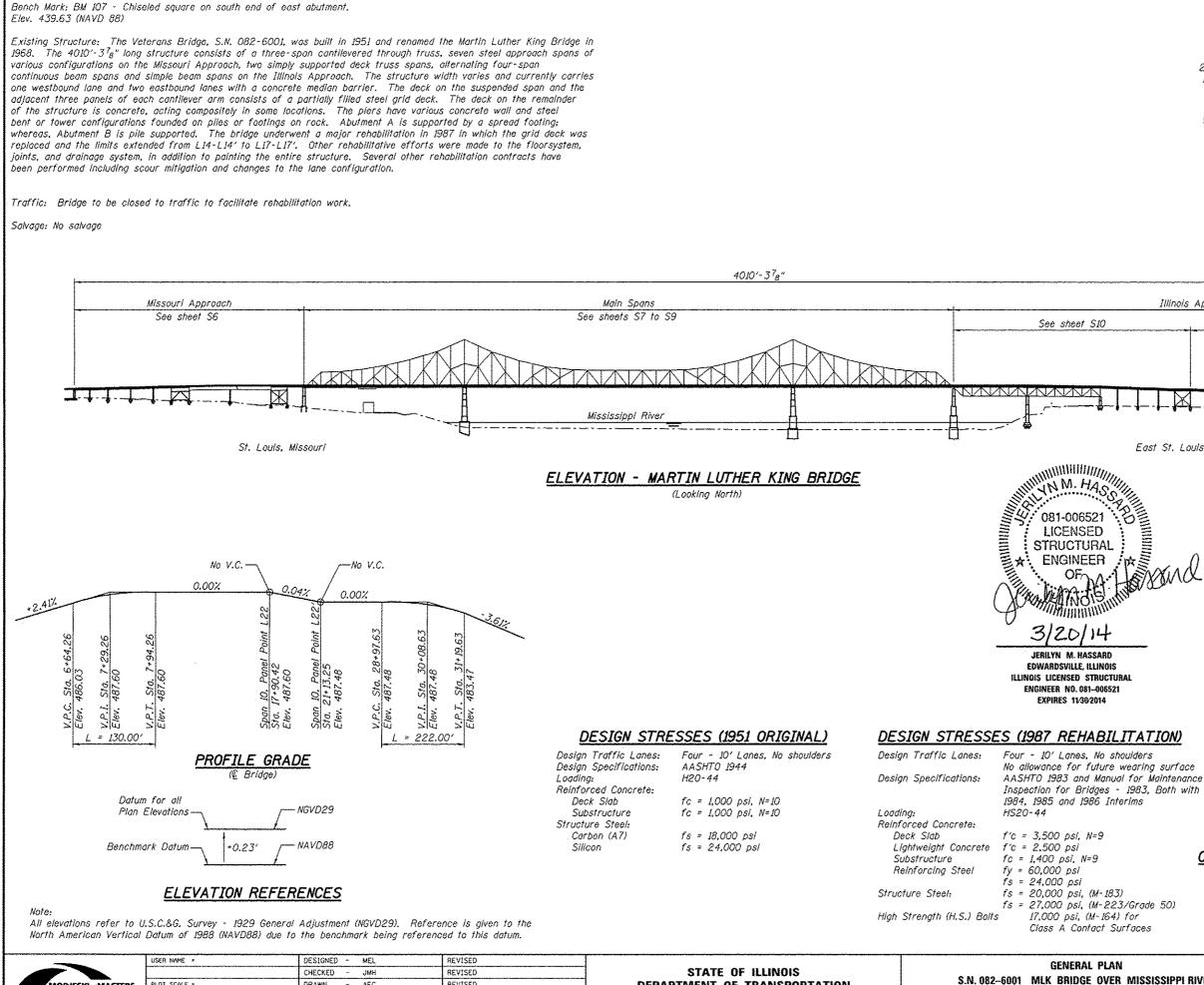
SCALE: N.T.S. SHEET NO. 11 OF 12 SHEETS

PROTECTION PLAN		F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.			
IISSISSIPPI RIVER			799	1BR, DRS-2	ST. CLAIR	156	17		
				CONTRACT NO. 76B03					
	STA.	TO STA.		ILLINDIS FED. AID PROJECT					





	USER NAME = \$USER\$	DESIGNED - KU	REVISED -			TRAFFIC CONTROL AND PROTECTION P	IAN	F.A.P.	SECTION	COUNTY TOTAL SHEET
Consulting Engineers		DRAWN - KU	REVISED -	STATE OF ILLINOIS		MLK BRIDGE OVER MISSISSIPPI RIVE		799	1BR, DRS-2	ST. CLAIR 156 18
Chatham, Illinois	PLOT SCALE = \$SCALE\$ PLOT DATE = \$DATE\$	DATE - 03/2014	REVISED -	DEPARTMENT OF TRANSPORTATION	SCALE: N.T.S	SHEET NO. 12 OF 12 SHEETS STA.	TO STA.		ILLINOIS FED.	CONTRACT NO. 76B03



ORAWN - AEC REVISED DEPARTMENT OF TRANSPORTATION REVISED CHECKED - MEL

PLOT SCALE

PLOT DATE = 03/20/2014

ODIESKI-MASTERS

SHEET NO. SI OF SIS

LOADING HS20-44 (NEW CONSTRUCTION) Allow O#/sq. ft. for future wearing surface. DESIGN SPECIFICATIONS 2002 AASHTO Standard Specifications for Highway Bridges. 17th Edition and the AASHTO Manual for Bridge Evaluation. 2nd Edition, with 2011 and 2013 Interims DESIGN STRESSES (NEW CONSTRUCTION) FIELD UNITS f'c = 3,500 psi f'c = 4,000 psi (Lightweight Concrete) fv = 60.000 psi (Reinforcement) fy = 36,000 psi (M270 Grade 36 Structural Steel) fy = 50,000 psi (M270 Grade 50 Structural Steel) Illinois Approach See sheet SII . 🖂 _ East St. Louis, Illinois APPROVED For Structural Adequacy Only Dimminini, Uner Engineer of Bridges & Structures 3rd PM Range IOW Structure State Li No. 082-6001 0000/

	<u>GENERAL PLAN</u>
	MARTIN LUTHER KING BRIDGE
	OVER MISSISSIPPI RIVER (PUBLIC WATER)
	F.A.P. ROUTE 799 - SEC. IBR, DRS-2
0)	ST. CLAIR COUNTY
0)	STATION 20+00.00
	STRUCTURE NO. 082-6001

LOCATION MAP

LAN	F.A.P. RTE.	SECTION	ĊŎ	UNTY	TOTAL SHEETS	SHEET NO.
VER MISSISSIPPI RIVER	799	18R, DRS-2	ST.	CLAIR	156	19
			CO	VTRACT	NO. 7	6803
38 SHEETS		ILLINOIS FED. AL	O PRO	ect		

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ree Removal Stone Dumped Concrete Rem Protective Shi -loor Drains Concrete_Supe Bridge Deck urnishing An Steel Stud Shear C Reinforcement Mechanical Sp . Preformed Jo -abric Reinfo Elastomeric E Epoxy Crack Chain Link Fe Chain Link Ga Field Measurer Conduit Suppo Remove Exist Remove And i Plate Joint Access Ladde Remove And A Aluminum Par Bridge Deck Steel Post, A Overhead Sigr Span, Dual Ma Navigation Lig Adjust And R Structural Ste Bridge Draind Containment A Paint Cleaning Cleaning And Cleaning Draii Structural Re (Depth Equal Deck Sla<u>b</u> Re Drainage Syste Silicone Joint Jacking Exist. Polymer Conc. Railroad Prote Slope Wall Re Temporary Ra Removal Of E Steel Grid De Concrete Bari



	USER NAME =	DESIGNED -	JMH	REVISED		INDEX OF SHEETS AND TOTAL BILL OF MATERIAL	F.A.P.	SECTION	COUNTY T	OTAL SHEET
		CHECKED -	DWP	REVISED	STATE OF ILLINOIS		799	1BR, DRS-2	ST. CLAIR	156 20
KI -MASTERS	PLOT SCALE =	DRAWN -	PRC	REVISED	DEPARTMENT OF TRANSPORTATION	S.N. 082–6001 MLK BRIDGE OVER MISSISSIPPI RIVER			CONTRACT I	NO. 76B03
XI and MASTERS PLC xperience great bridges. PLC	PLOT DATE = 05/09/2014	CHECKED -	JMH	REVISED		SHEET NO. S2 OF S138 SHEETS		ILLINOIS FED.	AID PROJECT	

TOTAL BILL OF MATERIAL

ITEM	UNIT	SUPER	SUB	TOTAL
l (Over 15 Units Diameter)	Unit	-	-	300
d Riprap, Class A7	Ton	-	35,085	35,085
noval	Cu Yd	109.1	-	109.1
nield	Sq Yd	617	-	617
	Each	100	-	100
erstructure	Cu Yd	100	-	100
Grooving	Sq Yd	3,058	-	3,058
nd Erecting Structural	L Sum	1	-	1
		_		-
Connectors	Each	19,740	-	19,740
t Bars, Epoxy Coated	Pound	20,850	-	20,850
plicers	Each	6	-	6
oint Strip Seal	Foot	504	-	504
prced Elastomeric Trough	Foot	214	-	214
Bearing Assembly, Type I	Each	35	-	35
Injection	Foot	-	176	176
ence, 8′	Foot	-	-	1,884
ates, 8' X 8' Double	Each	-	-	4
ements	L Sum	-	-	1
ort System	L Sum	1	-	1
ing Lighting System	L Sum	1	-	1
Reinstall Finger	Each	3	-	3
2				
er	Each	3	-	3
Reinstall Existing	Foot	1,905	-	1,905
rapet				
Concrete Sealer	Sq Ft	193,439	-	193,439
ttached To Structures	Each	812	-	812
n Structure -	Foot	45	-	45
lonotube				
ghting System	L Sum	1	-	1
Reposition Bearings	Each	14	-	14
eel Repair	Pound	179,190	-	179,190
age System Repair	Each	-	10	10
And Disposal Of Lead	L Sum	1	-	1
g Residues No. 1				
Painting Steel Bridge No. 1	L Sum	1	-	1
nage System	L Sum	-	1	1
pair Of Concrete	Sq Ft	-	95	95
To Or Less Than 5 Inches) epair (Partial)				
epair (Partial)	Sq Yd	324	-	324
tem	L Sum	-	1	1
Sealer, 1.5"	Foot	300	-	300
ing Superstructure	L Sum	1	-	1
rete	Cu Ft	-	5	5
ective Liability Insurance	L Sum	-	-	1
epair	Sq Yd	-	9.1	9.1
ailroad Crossing	Each	-	-	1
Existing Filled Grid Deck	L Sum	1	-	1
eck	Sq Ft	31,026	-	31,026
rier Repair	L Sum	1	-	1
	2 00.11	-		-
	1	1		

GENERAL NOTES

Fasteners shall be ASTM A 325 Type 1, mechanically galvanized bolts. Bolts ⁷₈" dia., open holes 15/16" dia., unless otherwise noted.

The Contractor shall replace all loose, broken, severely corroded or missing rivets with H.S. bolts. Cost included in Structural Steel Repair. The weight of each bolt, not detailed for replacement within the contract plans, shall be in addition to the quantities shown on the plans

When existing rivets are removed and replaced with bolts, the rivets shall be removed by: 1) drilling, or 2) using a pneumatic chisel to remove the rivet head and a pneumatic punch to drive out the shank. If, in the opinion of the Engineer, rivet shanks cannot be removed by punching without damaging the base metal, the rivet shanks shall be removed by drilling.

Before installing each bolt, all nicks, burrs, corrosion, scale, paint and foreign substance shall be removed from inside the hole and from the surfaces around the hole with a power tool to ensure proper seating of the nut, bolt head and washers. Holes in existing material shall be inspected for fatigue cracking. Any cracking found shall be reported to the Engineer. Necessary repairs will be as directed by the Engineer.

Calculated weight of Furnish and Erect Structural Steel = M 270 Grade 36: 29,540 lbs M 270 Grade 50: 429,920 lbs

All new Structural Steel shall conform to M270 Grade 36, unless otherwise noted.

No field welding is permitted except as specified in the contract documents.

Reinforcement bars designated (E) shall be epoxy coated.

Cost of removal and re-installation of all steel members necessary to complete the work as detailed on the plans and as specified in the Special Provisions shall be included with Structural Steel Repair or Furnishing and Erecting Structural Steel.

Prior to pouring the new concrete deck, all heavy or loose rust, loose mill scale, and other loose or potentially detrimental foreign material shall be removed from the surfaces in contact with concrete. Tightly adhered paint may remain unless otherwise noted. Removal shall be accomplished by methods that will not damage the steel and the cost will be included in the pay item covering removal of the existing concrete.

As directed by the Engineer, existing construction accessories welded to the top flange of beams and girders shall be removed. The weld areas shall be ground flush and inspected for cracks using magnetic particle testing (MT) or dye penetrant testing (PT) by qualified personnel approved by the Engineer. Any cracks that cannot be removed by arindina $\frac{1}{4}$ in. deep shall be identified and reported to the Bureau of Bridges and Structures for further disposition. The cost of removing welded accessories, grinding and inspecting weld areas and grinding cracks will be paid for according to Article 109.04 of the Standard Specifications.

Existing cracked tack welds and miscellaneous steel welded to structural members shall be removed as shown on the plans. The weld areas shall be ground flush and inspected for cracks using magnetic particle testing (MT) or dye penetrant testing (PT) by qualified personnel approved by the Engineer. Any cracks that can not be removed by grinding l_4 in deep shall be identified and reported to the Bureau of Bridges and Structures for further disposition. The cost of removing welds, grinding and inspecting weld areas and grinding cracks, as noted on the plans, is included with Structural Steel Repair.

Plan dimensions and details relative to existing plans are subject to nominal construction variations. The Contactor shall field verify existing dimensions and details affecting new construction and make necessary approved adjustments prior to construction or ordering of materials. Such variations shall not be cause for additional compensation for a change in scope of the work, however, the Contractor will be paid for the quantity actually furnished at the unit price bid for the work.

The Contractor shall field verify all proposed $I\!\!P$ dimensions and spacing of holes prior to orderina steel.

Existing structure plans are available for review in the District office. Contact Tim Padgett at (618) 346-3325.

Structural repairs involving removal and replacement of existing steel components are detailed for replacement in kind. Upon approval by the Engineer, the Contractor may increase angles and/or plate sizes to accommodate current availability restrictions at the expense of the Contractor.

Gaps between the existing steel and the new steel angles and/or cover plates, as well as abandoned holes to be covered by new steel plates and/or angles, shall be sealed with an approved polyurethane sealant. The sealant shall be compatible with the proposed paint system and shall be submitted to the Engineer for approval prior to use. All costs associated with the installation of the sealant shall be included with the cost for Structural Steel Repair.

The Contractor shall perform the work with care, so that any materials which are to remain in place shall not be damaged. If the Contractor damages any materials which are to remain in place, the damaged materials shall be replaced or repaired in a manner satisfactory to the Enaineer at the expense of the Contractor.

All material removed from the structure, as specified by this contract, shall become the property of the Contractor and disposed of properly.

The Contractor shall obtain a construction permit from the Illinois Department of Natural Resources (IDNR), Office of Water Resources for any temporary construction activity placed in the water except cofferdams. For this project, the anticipated construction activities within the water are limited to pier repairs, riprap placement, and access to the Illinois riverfront.

PAINTING NOTES

The existing structural steel coating contains lead. The Contractor shall take appropriate precautions to deal with the presence of lead on this project as specified in the special provision for Containment and Disposal of Lead Paint Cleaning Residues.

Calendar date painting restrictions will be waived for this project. See Special Provisions.

Cleaning and painting of the existing structural steel shall be as specified in the special provision for Cleaning and Painting Existing Steel Structures.

Cleaning and painting of existing structural steel in the areas of structural repairs or new structural installations shall be as specified in the special provision for Cleaning and Painting Contact Surface Areas of Existing Steel Structures.

The Organic Zinc Rich Primer/Epoxy/Urethane Paint System shall be used for painting of new structural steel except where otherwise noted. The entire system shall be shop applied, with the exception of the exterior surface and the bottom of the bottom flange of fascia beams, masked off connection surfaces, field installed fasteners and damaged areas shall be touched up in the field. The Contractor shall match the color of the final finish coat for all interior steel surfaces to the existing paint color on the structure. The Contractor shall match the color of the final finish coat for the exterior and bottom flange of the fascia beams to the existing paint color on the structure.

CONSTRUCTION SEQUENCE

The structure will be closed to traffic during construction. Contractor shall sequence construction in order to complete work in accordance with the required completion date. See Completion Date special provision.

Contractor is required to provide Structural Assessment Reports for proposed work. See special provisions.

The Contractor shall retain the services of an engineering firm, prequalified in the IDOT consultant selection category of Highway Bridges (Complex), for the preparation of the Structural Assessment Report(s). Contractor's pre-approval shall not be applicable for this project. See Special Provision.

Current Ratings on File for Existing Structure Inventory: HS 8.8 Operating: HS 14.8 Live Load Restrictions: No

Inventory and Operating Ratings and Live Load Restrictions are provided for information only. Inventory and Operating Ratings are based on HS loading and configuration. Live Load Restrictions are based on Illinois legal loads and configurations. The Ratings and Live Load Restrictions are not necessarily representative of capacities to support the Contractor's equinment.

The Contractor is advised that the existing structure contains members that are in a deteriorated condition with reduced load carrying capacity. It is the Contractor's responsibility to account for the condition of the existing structure when developing construction procedures for the complete or partial removal, or replacement of the structure. An Existing Structure Information Package is available upon request as noted in the special provisions.

Grid deck removal and replacement shall be sequenced in order to maintain the structural integrity of the bridge.



	USER NAME =	DESIGNED - JMH	REVISED		GENERAL NOTE
		CHECKED - DWP	REVISED	STATE OF ILLINOIS	
DJESKI	PLOT SCALE =	DRAWN - PRC	REVISED	DEPARTMENT OF TRANSPORTATION	S.N. 082–6001 MLK BRIDGE OVER
Experience great bridges.	PLOT DATE = 05/02/2014	CHECKED - JMH	REVISED		SHEET NO. S3 OF S138

See special provisions for United States Coast Guard (U.S.C.G.) requirements. U.S.C.G. Contact: Mr. Peter J. Sambor, M.P.A. U.S.C.G. Bridge Management Specialist Coast Guard 8" District 1222 Spruce Street, Suite 2.107F St. Louis, Missouri 63103 Phone: (314) 269-2380 U.S.C.G. 24-hour watch center (314) 269-2332 See special provisions for Terminal Railroad Association of St. Louis (T.R.R.A.) requirements. T.R.R.A. Contact: Mr. Asim Raza T.R.R.A. of St. Louis 415 South 18" Street, Suite 200 St. Louis, Missouri 63103 Phone: (314) 241-4729

LEGEND

- Field drill holes
- Shop or field drill holes
- Existing holes to remain
- I.F. Inside Face
- F.F. Front Face

COORDINATION

ites /er mississippi river	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	799	1BR, DRS-2	ST. CLAIR	156	21
			CONTRACT	NO. 7	6B03
138 SHEETS		ILLINOIS FED. AI	D PROJECT		

epair Detail	09/16/13 NIBS Inspection Deficiency	Location	Sheet No.	Repair Detail	09/16/13 NIBS Inspection Deficiency	Location	Sheet No,	Repair Detail	09/16/13 NIBS Inspection Deficiency	Location	She No
No.	Item No.		10.	No.	Item No.		110.	No.	Item No.		///
1	99	Abutment A	599	12	-	Span 10, Panel Point 17 to Panel Point 17'	S14	26	78	Span 10, Flbm. 23, North end	S
1	40	Pier 8	599	13	122	Span 9 to Span 11	\$31	27	126	Span 9, Flbm. 1, South end	Se
1	80	Span 10. Panel Point 22'	S104	13	123	Span 9 to Span 11	531	27	130	Span 9, Flbm. 3, South end	S
1	83	Pier 11	S101	13	22	Span 10, Panel Point 22'N	S33	27	148	Span 9, Flbm. 8, near Stringer 7	S
1	96	Pier 13	S102	14	308	Abutment A	S125	27	150	Span 9, Flbm. 9, South end	Sé
2	310	Span 6 at Hinge	592	14	69	Pier 8	S126	27	153	Span 9, Flbm. 10, South end	S
2	-	Pier 12	S92	14	82	Pier 10	S126	27	154	Span 9, Flbm. 11, South end	S
2	-	Bent 18	592	14	251	Pier 12	<i>S125</i>	27	162	Span 10, Flbm, 16, North and South ends	S
2	-	Bent 23	S92	14	281	Bent 18 at North Column base	S125	27	168	Span 10, Flbm. 19, North end	S
2	-	Bent 28	S92	15	228	Pier 11	S126	27	77	Span 10, Flbm. 21, North and South ends	S
3	-	Bent W	S92	16	-	Pier 9, Pier 10, Pier 11	S127	27	172	Span 10, Flbm. 24, North end	5
3	351	Bent 2	S92	17	325	Span 10, U22N Guide Pin	S45	27	180	Span 10, Flbm. 23', 4' from North end	5
3	-	Bent 3	S92	17	326	Span 10, U22S Guide Pin	S45	27	184	Span 10, Flbm. 23', South end	0,
3	-	Bent 6	S92	17	89	Span 10, U22'S Guide Pin	S45	27	186	Span 10, Flbm. 21', 4' from North end	0
3	-	Bent 17	S92	17	90	Span 10, U22′N Guide Pin	S45	27	199	Span 11, Flbm. 11', Btwn. Stringers 1-2 and Stingers 6-7	S
3		Bent 22	S92	17	358	Span 10, L22′N Guide Pin	S45	27	202	Span 11, Flbm. 9', 4' from North end	S
3	-	Bent 27	S92	18	-	Span 9, U4N and U4S	S56	27	210	Span 11, Flbm. 6', 4' from North end	5
4	-	Abutment A to Span 10 L17, Span 10 L17' to Abutment B	S28	18	-	Span 9, U8N and U8S	S57	27	219	Span 11, Flbm. 4′, near Stringer 7	S
5	121	Span 8, Between Beam 5 and Beam 6	S44	18	-	Span 9, UION and UIOS	S58	28	386	Span 9, Bottom Lateral LOS - LIN at LOS	S
6	-	Span 6, Stingers 2 and Stringer 6	S43	18	-	Span 9, U12N and U12S	S59	28	127	Span 9, Bottom Lateral L1N - L2S at L1N	5
7	101	Span W, Beam 7 at Bent W	S90	18	-	Span 10, U18N and U18S	S60	28	129	Span 9, Bottom Lateral L2N - L3S at L2N	S
/	6	Span W, Beam 5 at Bent W	S90	18	-	Span 10, U18'N and U18'S	S60	28	71	Span 9, Bottom Lateral L3N - L4S at L3N	S
/	110	Span 2, Beam 3 at Bent 2	S90	18	-	Span 11, U12'N and U12'S	S59	28	314	Span 9, Bottom Lateral L4N - L5S at L5S	S
8	6	Span W, Beam 5 at Bent W	S89	18	-	Span 11, U10'N and U10'S	S58	28	86	Span 9, Bottom Lateral L5N - L6S at L6S	S
8	7	Span W, Beam 3 at Bent W	S89	18	-	Span 11, U8'N and U8'S	S57	28	140	Span 9, Bottom Lateral L6N - L7S at L7S	S
8	8	Span X, Beam 6 at Bent W	S89	18	-	Span 11, U4'N and U4'S	S56	28	317	Span 9, Bottom Lateral L10S - L11N at L10S	S
8	9	Span X, Beam 4 at Bent W	S89	18	-	Span 9, L2N and L2S	S46	28	320	Span 9, Bottom Lateral L12N - L13S at L13S	5
8	10	Span X, Beam 2 at Bent W	S89	18	-	Span 9, L6N and L6S	S48	28	17	Span 10, Bottom Lateral L15N - L16S at L16S	5
8	11	Span 2, Beam 4 at Bent 2	S89	18	-	Span 9, LION and LIOS	<u>S51</u>	28	323	Span 10, Bottom Lateral L17N - L18S at L18S	5
8	115	Span 3, Beam 4 at Bent 2	S89	18	-	Span 10, L18N and L18S	S53	28	165	Span 10, Bottom Lateral L18N - L19S at L19S	
8	<u>366</u> 277	Span 18, Beam 3 at Bent 17	S89	18	-	Span 10, L18'N and L18'S	S53	28 28	185	Span 10, Bottom Lateral L22'N - L21'S at L21'S	
8 8	34	Span 18, Beam 4 at Bent 18	<u> </u>	18 18	-	Span 11, L10'N and L10'S	S51 S48	28	359 188	Span 10, Bottom Lateral L21'S - L20'N at L21'S	
o 8	300	Span 22, Beam 2 at Bent 22 Span 28, Beam 4 at Bent 27	589 589	18 18	-	Span 11, L6′N and L6′S Span 11, L2′N and L2′S		28	332	Span 10, Bottom Lateral L2O'N - L19'S at L19'S Span 10, Bottom Lateral L18'N - L17'S at L18'N	
<u>o</u> 9	120	Bent 7, base of North and South Columns	509 590	10	145	Span 9, L8S Inside Gusset Plate		28	189	Span 10, Bottom Lateral L16'N - L17'S at L16'N	
9	280	Bent 18, base of North Column	S90	19	146	Span 9, L8N Outside Gusset Plate		28	55	Span 11, Bottom Lateral L13'S - L12'N at L12'N	5
9	290	Bent 23, base of North Column	S90	19	204	Span 11, L8'S Outside Gusset Plate		28	208	Span 11, Bottom Lateral L7'N - L6'S at L6'S	
9	302	Bent 28, base of North Column	S90	19	205	Span 11, L8'S Inside Gusset Plate		28	211	Span 11, Bottom Lateral L6'N - L5'S at L6'N	5
10	67	Span 6, Hinge at Girder 2 and Girder 3	S91	19	205	Span 11, L8'N Inside Plate		28	94	Span 12, Bottom Lateral UON - LIS at LIS	5
10	102	Bent W, base of South Column	S106	20	173	Span 10, L25N Inside Plate	S50 S47	28	377	Span 12, Bottom Lateral UOS - LIN at LIN	5
11	350	Bent 1, base of North Column	S100	21	216	Span 11, L4'N Outside Plate	S47	28	92	Span 12, Bottom Lateral L1N - L2S at L1N	5
11	113	Bent 2, base of North Column	S108	22	-	Span 9, L4N and L4S	S47	28	95	Span 12, Bottom Lateral L1S - L2N at L1S	5
11	110	Bent 2, base of South Column	S108	22	-	Span 9, M7N and M7S	\$55	28	255	Span 13, Bottom Lateral LOS - LIN at LIN	5
11	384	Bent 2, top of North Column	S108	22	-	Span 9, U2N and U2S	\$55	28	258	Span 13, Bottom Lateral L1N - L2S at L1N	
11	385	Bent 2, top of South Column	S108	22	-	Span 11, L4'N and L4'S	S47	29	-	Span 12 and 13 Floorbeams	S
11	-	Bent 3 Cap	S109	22	-	Span 11. M7'N and M7'S	\$55	30	-	Span 18 Beams 2, 3, 4, 5, 6	S
11	117	Bent 6, 3' above base of South Column	S110	22	-	Span 11, U2'N and U2'S	S55	30	282	Span 19, Beam 1 at Bent 18	5
11	-	Bent 6 Cap	S110	23	45	Span 9, Sway Brace Connection at M9N	58	30	-	Span 23 Beams 2, 3, 4, 5, 6	5
11	118	Bent 6, top of North Column	S110	23	354	Span 9, L10S - U10S, 4' above Deck	S8	30	-	Span 28 Beams 2, 3, 4, 5, 6	S
11	13	Bent 6, top of South Column	S110	23	88	Span 10, U17S - M17S, 15' above Deck	S8	31	363	Span 17, Beam 2 at Bent 17	S
11	-	Bent 7 Cap	S112	23	56	Span 11, L11'S - M11'S, 20' above Deck	S8	31	31	Span 17, Beam 6 at Bent 17	S
11	-	Bent 13 Cap	S113	23	57	Span 11, Sway Brace Connection at M9'S	S8	31	280	Bent 18, base of North Column	5
11	276	Bent 17, Bent Cap at North end, Beam 5, and South end	S114	23	91	Span 11, L7'S - M7'S, 20' above Deck	S8	32	306	Span 32, East Abutment Slope Wall	S.
11	365	Bent 17, 4' above base of North Column	S114	24	-	Span 9, Panel Point 2 - Panel Point 6	S61	33	-	Spans 9 - 11, replace Navigation Lights and Attachments	
11	278	Bent 18, Bent Cap at Beam 2	S116	24	-	Span 11, Panel Point 6' - Panel Point 2'	S61	34	-	Span 10, install new Navigation Light and Conduit	
11	343	Bent 18, top of North Column	S116	25	15	Span 9/10, Flbm, 14, South end	S63	35	-	Span 10, install access to upper Navigation Lighting	S
11	-	Bent 22 Cap	S117	25	16	Span 9/10, Flbm. 14, North end	S63				
11	380	Bent 22, base of North Column	S117	25	-	Span 10, Flbm. 17 North and South ends	S62				
11	381	Bent 22, base of South Column	S117	25	355	Span 10, Flbm. 20, North and South ends	S62				
11	289	Bent 23, Full Length of Bent Cap	S118	25	170	Span 10, Flbm. 22, North end	S62				
11	35	Bent 23, top of North Column	S118	25	49	Span 10, Flbm. 22, South end	S62				
11	-	Bent 27 Cap	S119	25	-	Span 10, Flbm. 25, North and South ends	S62				
11	382	Bent 27, North Column	S119	25	-	Span 10, Flbm. 25', North and South ends	S62				
11	37	Bent 27, top of North Column	S119	25	23	Span 10, Flbm. 22', North end	S62				
11	97	Bent 27, top of South Column	S119	25	24	Span 10, Flbm. 22', South end	S62				
11	298	Bent 27, top of South Column	S119	25	25	Span 10, Flbm. 20', North end	S62				
11	38	Bent 28, top of North Column	S121	25	26	Span 10, Flbm. 20', South end	S62			Noto	
11	301	Bent 28, top and bottom of North Column	S121	25	-	Span 10, Flbm. 17' North and South ends	S62			Note: If repair details encompass multiple sheets,	
11	303	Bent 28, Cap at South Column	S121	25	53	Span 10/11, Flbm. 14', North and South ends	S63				
<u>11</u>	347	Bent 28, top of South Column	S121	25	-	Span 11, Flbm. 8', North and South ends	S63			the first sheet number has been referenced.	
11	304	Bent 29, base of North Column	S123	25	29	Span 11, Flbm. O', South end	S64				
1	383	Bent 30, base of North Column	S123	25	30	Span 11, Flbm. O', North end	S64				



	USER NAME =	DESIGNED - CDB	REVISED		2013 NBIS REFERENCE
		CHECKED - ZJB	REVISED	STATE OF ILLINOIS	
MASTERS	PLOT SCALE =	DRAWN - PRC	REVISED	DEPARTMENT OF TRANSPORTATION	S.N. 082–6001 MLK BRIDGE OVE
ce great bridges.	PLOT DATE = 05/02/2014	CHECKED - JMH	REVISED		SHEET NO. S4 OF S138

E TABLE – 1 ER MISSISSIPPI RIVER	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	799	1BR, DRS-2	ST. CLAIR	156	22
			CONTRACT	NO. 7	6B03
138 SHEETS		ILLINOIS FED. AI	D PROJECT		

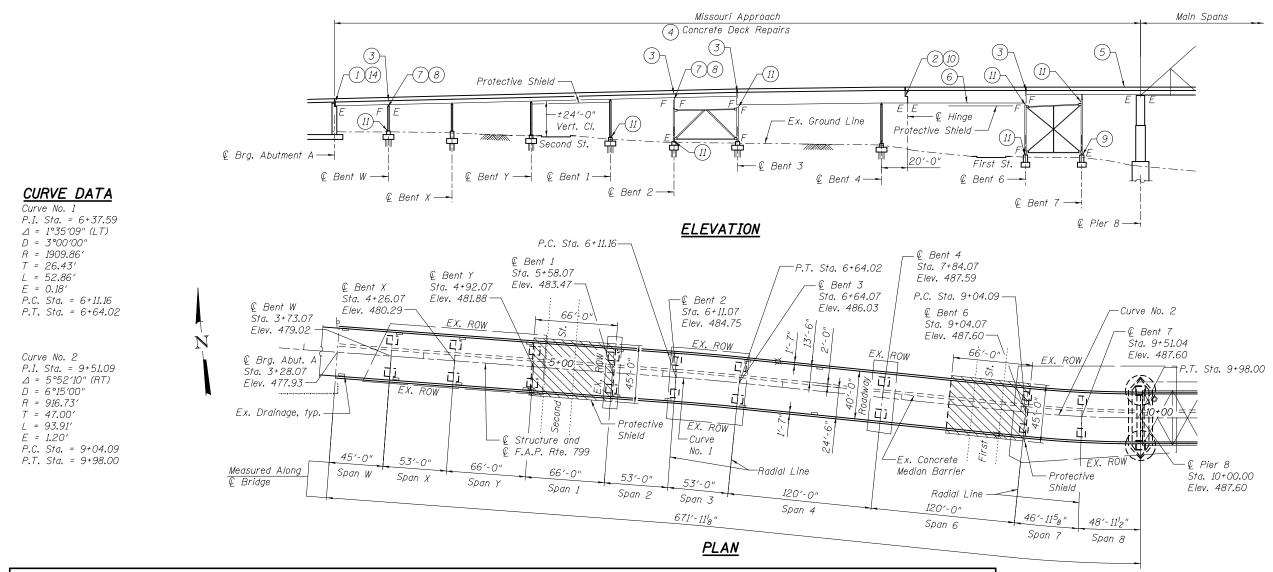
Repair Detail No.	09/16/13 NIBS Inspection Deficiency Item No.	Location	Sheet No.
Structural Painting	1	5' Either Side of Deck Joints, Main Spans Splash Zone	S88
Drainage System	368	Span W, South side Deck Drains	S128
Drainage System	369	Bent 1. North Column	S128
Drainage System	309	Span 4. 20' from Bent 3 at Girder 1	S128
Drainage System	-	Span 4. midspan at Girder 4	S128
Drainage System	372	Span 9. South side Deck Drains	S128
Drainage System	-	Span 9, Panel 3 near Stringer 1	S128
Drainage System	-	Span 9, Panel 6 near Stringer 1	S128
Drainage System	144	Span 9, Panel 7 and Panel 8 near Stringer 1	S128
Drainage System	-	Span 9, Panel 8 near Stringer 1 and Stringer 7	S128
Drainage System	305	Bent 31 at North Column	S128
Miscellaneous Steel Repairs	100	Span W, under Stringer 5 at Bent W	S87
Miscellaneous Steel Repairs	-	Bent W. 6' above base of North Column	S87
Miscellaneous Steel Repairs	103	Span X. between Stringer 1 and Stringer 2 at Midspan	S87
Miscellaneous Steel Repairs	104	Span X, between Stringer 3 and Stringer 4 at Midspan	S87
Miscellaneous Steel Repairs	106	Bent 1 at Stringer 6	S87
Miscellaneous Steel Repairs	107	Bent 1 at Stringer 4	S87
Miscellaneous Steel Repairs	-	Bent 1, 4' above base of North Column	S87
Miscellaneous Steel Repairs	-	Bent 1, 4' above base of South Column	S87
Miscellaneous Steel Repairs	108	Span 2, Stringer 7, 5' from Bent 1, 5' from Bent 2, and at Bent 2	S87
Miscellaneous Steel Repairs	109	Span 2, Stringer 1 at Bent 2	S87
Miscellaneous Steel Repairs	-	Bent 3, South Column	S87
Miscellaneous Steel Repairs	66	Bent 3, North Column	S87
Miscellaneous Steel Repairs		Bent 4, North Column	S87
Miscellaneous Steel Repairs	-	Bent 6, North Column	S87
Miscellaneous Steel Repairs	-	Bent 6, South Column	S87
Miscellaneous Steel Repairs	119	Bent 7 at Stringer 4	S87
Miscellaneous Steel Repairs	371	Bent 7 at South Column Long. Bracing	S87
Miscellaneous Steel Repairs	311	Span 9, Stringer 7, 6' East of Floorbeam O	S87
Miscellaneous Steel Repairs	125	Span 9, Floorbeam 1 at Stringer 3	S87
Miscellaneous Steel Repairs	41	Span 9, L4N - U4N, 4′ and 20′ above Deck	S87
Miscellaneous Steel Repairs		Span 9, L4S - U4S, 4′ above Deck	S87
Miscellaneous Steel Repairs	-	Span 9, L10S - U10S, 4′ above Deck	S87
Miscellaneous Steel Repairs	75	Span 9/10, M14N - M14S, 20' above Deck	S87
Miscellaneous Steel Repairs	48	Span 10, Floorbeam 18 between Stringer 1 and Stringer 2	S87
Miscellaneous Steel Repairs	-	Span 10, L18S - U18S, 4′ and 30′ above Deck	S87
Miscellaneous Steel Repairs	50	Span 10, L23N - U23N, 4′ above Deck	S87
Miscellaneous Steel Repairs	51	Span 10, L23N - U23N, 30' above Deck	S87
Miscellaneous Steel Repairs	177	Span 10, Floorbeam 24' at Stringer 2	S87
Miscellaneous Steel Repairs	21	Span 10, L23'S - U23'S, 30' above Deck	S87

Repair Detail No.	09/16/13 NIBS Inspection Deficiency Item No.	Location	Sheet No.
Miscellaneous Steel Repairs	181	Span 10, Floorbeam 23′ at Stringer 3	S87
Miscellaneous Steel Repairs	182	Span 10, Floorbeam 23' at Stringer 4	587
Miscellaneous Steel Repairs	183	Span 10, Floorbeam 23' at Stringer 4	S87
Miscellaneous Steel Repairs	-	Span 10, L21'N - M21'N, 12' above Deck	S87
Miscellaneous Steel Repairs	187	Span 10, Floorbeam 21' at Stringer 2	S87
Miscellaneous Steel Repairs	-	Span 10. M19'N. outside Gusset Plate	S87
Miscellaneous Steel Repairs	-	Span 10, L18'N - U18'N, 4' and 25' above Deck	S87
Miscellaneous Steel Repairs	190	Span 10. Lower Lateral Connection at L15'N	S87
Miscellaneous Steel Repairs	192	Span 10/11, L14'N, outside Gusset Plate	S87
Miscellaneous Steel Repairs	-	Span 11, L13'S - M13'S, 4' above Deck	S87
Miscellaneous Steel Repairs	54	Span 11. L13'S - M13'S. 40' above Deck	S87
Miscellaneous Steel Repairs	361	Span 11, L11'N inside Gusset Plate	S87
Miscellaneous Steel Repairs	362	Span 11. L11'S inside Gusset Plate	S87
Miscellaneous Steel Repairs	200	Span 11. Stringer 2 at L11'	S87
Miscellaneous Steel Repairs	-	Span 11, L10'N - U10'N, 4' and 30' above Deck	S87
Miscellaneous Steel Repairs	207	Span 11. Floorbeam 8' at L8'N	S87
Miscellaneous Steel Repairs	60	Span 11. Floorbeam 5′. North end	S87
Miscellaneous Steel Repairs	-	Span 11. L4'S - U4'S. 4' above Deck	S87
Miscellaneous Steel Repairs	61	Span 11. L4'S - U4'S. 30' above Deck	S87
Miscellaneous Steel Repairs	214	Span 11. L4'N - U4'N. at L4'N	S87
Miscellaneous Steel Repairs	220	Span 11. Floorbeam 4' at Stringer 7	S87
Miscellaneous Steel Repairs	221	Span 11, L4'S - U4'S, at L4'S	S87
Miscellaneous Steel Repairs	62	Span 11. Floorbeam 3' at North end	S87
Miscellaneous Steel Repairs	247	Span 12, UO'S - U1'S at UO'S	S87
Miscellaneous Steel Repairs	339	Span 13, U3N - L4N at 5′ from U3N	S87
Miscellaneous Steel Repairs	341	Span 13, Floorbeam 2′ at South end	S87
Miscellaneous Steel Repairs	32	Span 21, Stringer 1 at West Splice	S87
Miscellaneous Steel Repairs	33	Bent 22 Tower Bracing	S87
Miscellaneous Steel Repairs	284	Bent 22 at Stringer 2	S87
Miscellaneous Steel Repairs	289	Bent 23 Cap at South end	S87
Miscellaneous Steel Repairs	367	Span 23, Stringer 1 at Bent 23	S87
Miscellaneous Steel Repairs	346	Span 27, Stringer 7 at Midspan	S87
Miscellaneous Steel Repairs	348	Span 30, Stringer 6 at Bent 30	S87
Concrete Median Repair	349	Span X, 12' East of Bent W	S87
Concrete Median Repair	-	Span Y, 12' West of Bent Y	S87
Concrete Median Repair	-	Span 7, at Bent 7	S87
Concrete Median Repair	-	Span 8, 24′ West of Pier 8	S87
Concrete Median Repair	-	Span 10, at Panel 22	S87
Decorative Lighting	5	Spans 9 - 13	S12



	USER NAME =	DESIGNED - CDB	REVISED		2013 NBIS REFERENCE TABLE – 2	F.A.P. RTF.	SECTION	COUNTY TOTAL SHEET
		CHECKED - ZJB	REVISED	STATE OF ILLINOIS	S.N. 082–6001 MLK BRIDGE OVER MISSISSIPPI RIVER	799	1BR, DRS-2	ST. CLAIR 156 23
MASTERS	PLOT SCALE =	DRAWN - PRC	REVISED	DEPARTMENT OF TRANSPORTATION	3.IV. UOZ-UUUT MILK BRIDDE UVER IVIISSISSIFFI RIVER			CONTRACT NO. 76B03
nce great bridges.	PLOT DATE = Ø3/20/2014	CHECKED - JMH	REVISED		SHEET NO. S5 OF S138 SHEETS		ILLINOIS FED.	AID PROJECT

Note: If repair details encompass multiple sheets, the first sheet number has been referenced.

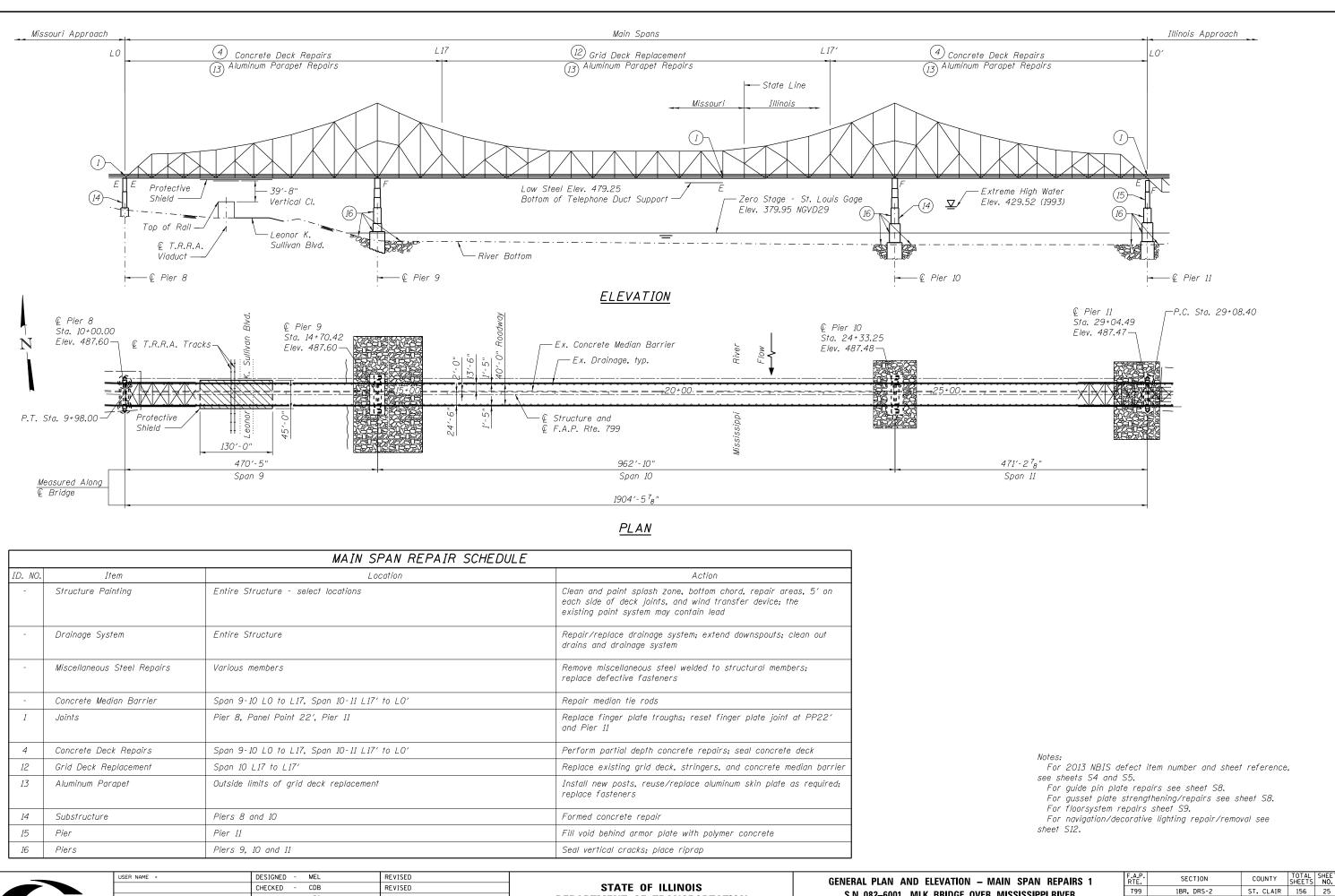


D. NO.	Item	Location	Action
-	Structure Painting	Entire Structure - select locations	Clean and paint repair areas and 5' on each side of deck joints; the existing paint system may contain lead
-	Drainage System	Entire Structure	Repair/Replace drainage system; extend downspouts; clean out drains and drainage system
-	Miscellaneous Steel Repairs	Various members	Remove miscellaneous steel welded to structural members; replace defective fasteners
-	Concrete Median Barrier	Abutment A to Pier 8	Repair median tie rods
1	Joint	Abutment A	Replace finger joint trough
2	Joint	Span 6 at Hinge	Replace neoprene joint with strip seal
3	Joints	Bents W, 2, 3 and 6	Replace preformed joints with strip seals
4	Concrete Deck Repairs	Abutment A to Pier 8	Perform partial depth concrete repairs; seal concrete deck
5	Diaphragm Repair	Span 8 between Beams 5 and 6	Replace diaphragm with excessive offset
6	Stringers	Span 6 Stringers S2 and S6 between Girders G1 and G3 and G5 and G7	Install cross beams to provide additional support
7	Bearings	Bent W, Beams 5 and 7; Bent 2, Beam 3	Repair broken welds
8	Bearings	Bent W, Beams 2, 3, 4, 5, 6 and Bent 2, Beam 4, Spans 2 and 3	Shim gaps between bearing surfaces; repair offset bearing
9	Bearings	Bent 7 N. and S. Column	Clean bearing surfaces at column bases
10	Rocker Bearing	Span 6 Girders 2 and 3 at Hinge	Reset bearings to adjust inclination
11	Steel Columns and Bents	Bent W Cap; Bent W S. Column; Bent 1 N. Column; Bent 2 N. Column, S. Column; Bent 3 Cap; Bent 6 Cap, Bent 6 S. Column, N. Column; Bent 7 Cap	Repair and/or strengthen caps and columns
14	Substructure	Abutment A	Formed Concrete Repair



	USER NAME =	DESIGNED - MEL	REVISED		GENERAL PLAN AND ELEVATION – MISSOURI APPROACH REPAIRS	F.A.P. RTE.	SECTION	COUNTY TOTAL SHEET SHEETS NO.
DDJESKI-MASTERS	PLOT SCALE =	CHECKED - CDB DRAWN - AEC	REVISED	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	S.N. 082–6001 MLK BRIDGE OVER MISSISSIPPI RIVER	799	1BR, DRS-2	ST. CLAIR 156 24 CONTRACT NO. 76B03
Experience great bridges.	PLOT DATE = 03/20/2014	CHECKED - JMH	REVISED		SHEET NO. S6 OF S138 SHEETS		ILLINOIS FED.	AID PROJECT

Notes: For 2013 NBIS defect item number and sheet reference, see sheets S4 and S5. There is no Bent 5 or Span 5. Existing ROW shown is approximate. See general notes on sheet 2 of 156 for further details on ROW limitations and access.

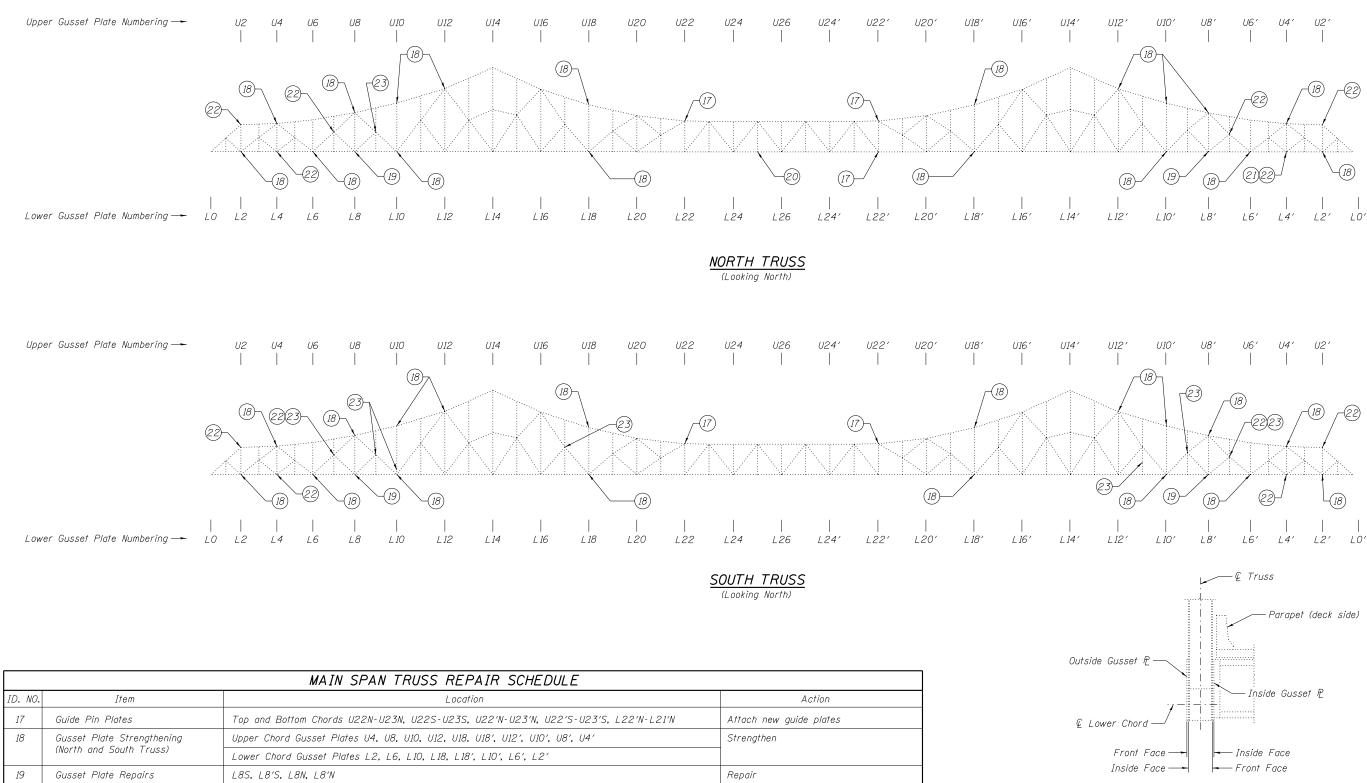


		MAIN SPAN REPAIR SCH	EDULE
ID. NO.	Item	Location	Action
-	Structure Painting	Entire Structure - select locations	Clean and paint splash zone, bottom chord, repair areas, 5' on each side of deck joints, and wind transfer device; the existing paint system may contain lead
-	Drainage System	Entire Structure	Repair/replace drainage system; extend downspouts; clean out drains and drainage system
-	Miscellaneous Steel Repairs	Various members	Remove miscellaneous steel welded to structural members; replace defective fasteners
-	Concrete Median Barrier	Span 9-10 L0 to L17, Span 10-11 L17' to L0'	Repair median tie rods
1	Joints	Pier 8, Panel Point 22', Pier 11	Replace finger plate troughs; reset finger plate joint at PP22' and Pier 11
4	Concrete Deck Repairs	Span 9-10 L0 to L17, Span 10-11 L17' to L0'	Perform partial depth concrete repairs; seal concrete deck
12	Grid Deck Replacement	Span 10 L17 to L17′	Replace existing grid deck, stringers, and concrete median barrier
13	Aluminum Parapet	Outside limits of grid deck replacement	Install new posts, reuse/replace aluminum skin plate as required; replace fasteners
14	Substructure	Piers 8 and 10	Formed concrete repair
15	Pier	Pier 11	Fill void behind armor plate with polymer concrete
16	Piers	Piers 9, 10 and 11	Seal vertical cracks; place riprap



E OVER MISSISSIPPI RIVER	135	101, 013 2		JI. CLAIN	150
				CONTRACT	NO.
OF S138 SHEETS		ILLINOIS	FED. A	ID PROJECT	

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		MAIN SPAN TRUSS REPAIR SCHEDULE	
ID. NO.	Item	Location	Action
17	Guide Pin Plates	Top and Bottom Chords U22N-U23N, U22S-U23S, U22'N-U23'N, U22'S-U23'S, L22'N-L21'N	Attach new guide plates
18	Gusset Plate Strengthening	Upper Chord Gusset Plates U4, U8, U10, U12, U18, U18', U12', U10', U8', U4'	Strengthen
	(North and South Truss)	Lower Chord Gusset Plates L2, L6, L10, L18, L18', L10', L6', L2'	
19	Gusset Plate Repairs	L8S, L8'S, L8N, L8'N	Repair
20	Gusset Plate Repair	L25N	Repair delaminated IS gusset plate
21	Gusset Plate Repair	L4'N	Straighten warped OS gusset plate
22	Gusset Plate Stiffening	L4, M7, U2, L4', M7', U2' (North and South Truss)	Stiffen slender edges of gusset plates
23	Tack Welds	Sway Brace at L7S-M7S; Sway Brace at L9S-M9S; Sway Brace at L9N-M9N; L10S-U10S 4' above deck; M17S-U17S 15' above deck; L11'S-M11'S 20' above deck; Sway Brace at L9'S-M9'S; L7'S-M7'S 20' above deck	Remove partially cracked tack welds



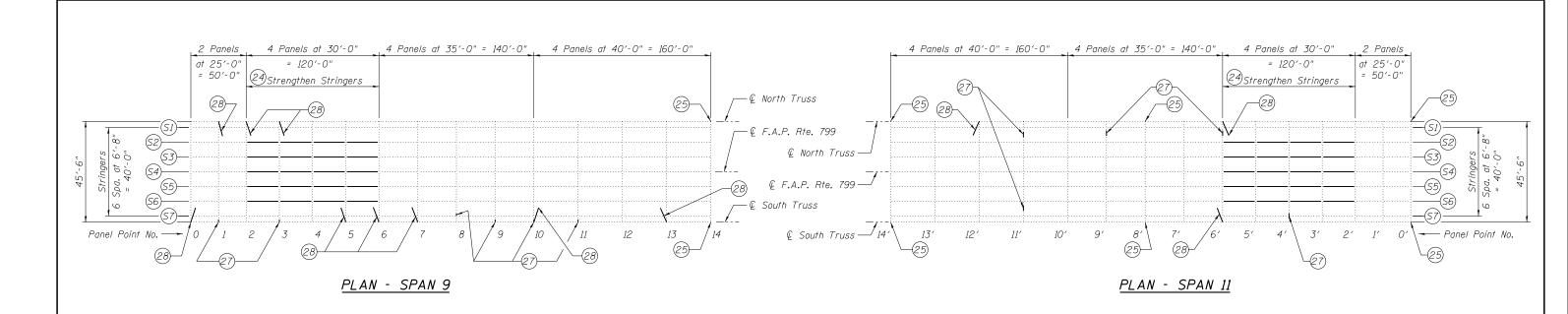
_	USER NAME =	DESIGNED - MEL	REVISED		GENERAL PLAN AND ELEVATION – MAIN SPAN REPAIRS 2	F.A.P.	SECTION	COUNTY TOTAL SHEET
		CHECKED - CDB	REVISED	STATE OF ILLINOIS		799	1BR, DRS-2	ST. CLAIR 156 26
KI-MASTERS	PLOT SCALE =	DRAWN - AEC	REVISED	DEPARTMENT OF TRANSPORTATION	S.N. 082–6001 MLK BRIDGE OVER MISSISSIPPI RIVER		· · · · · · · · · · · · · · · · · · ·	CONTRACT NO. 76B03
Experience great bridges.	PLOT DATE = 05/02/2014	CHECKED - JMH	REVISED		SHEET NO. S8 OF S138 SHEETS		ILLINOIS FED.	AID PROJECT

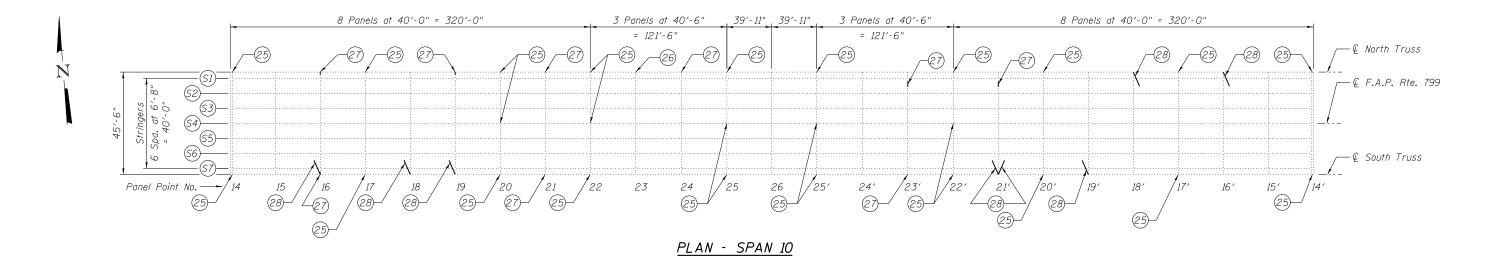
TRUSS CROSS SECTION

Notes:

For 2013 NBIS defect item number and sheet reference, see sheets S4 and S5.

Tack welds shall be removed in accordance with the general notes, see sheet S3. The cost of removing tack welds is included with Structural Steel Repair.



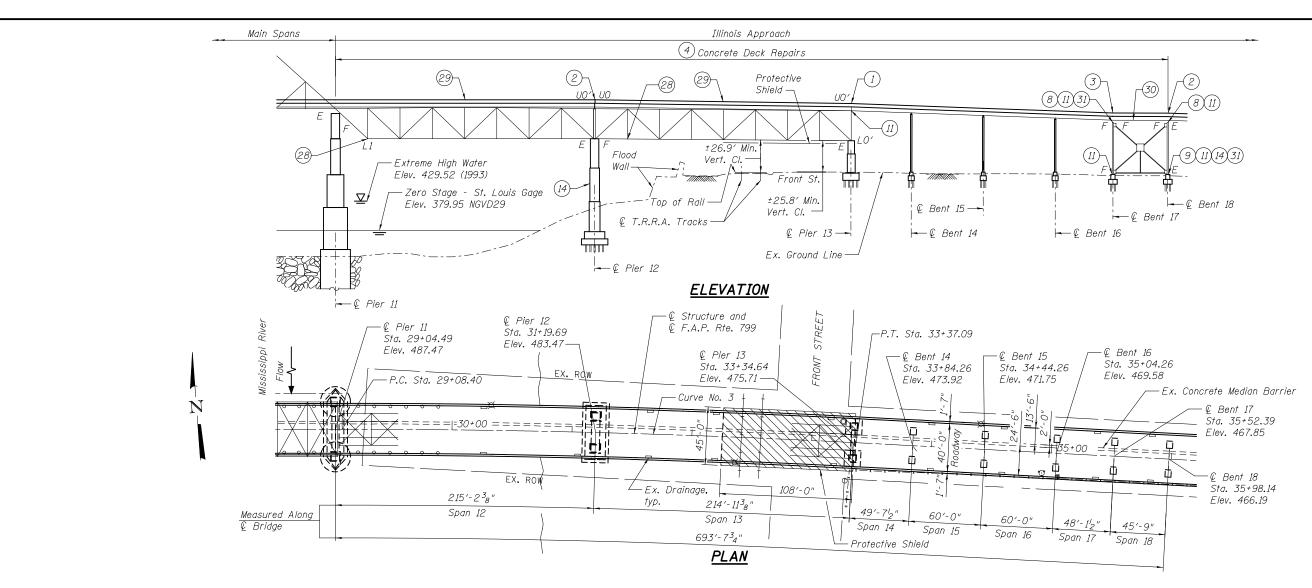


	MAIN SPAN FLOORSYSTEM REPAIR SCHEDULE					
ID. NO.	Item	Location	Action			
24	Stringers	PP2-PP6, PP6'-PP2'	Strengthen			
25	Floorbeams	FB 14, FB 17, FB 20, FB 22, FB 25, FB 25', FB 22', FB 20', FB 17', FB 14', FB 8', FB 0'	Strengthen and/or retrofit for cracking			
26	Floorbeam	FB 23, North End	Remove delamination on bottom flange			
27	Floorbeams	FB IS, FB 3S, FB 8 at S7, FB 9S, FB IOS, FB IIS, FB I6N and S, FB I9N, FB 21N and S, FB 24N, FB 23'N 4' from end, FB 23'S, FB 21'N 4' from end, FB 11' between S1-S2 and S6-S7, FB 9'N 4' from end, FB 6'N 4' from end, FB 4' at S7	Repair floorbeam webs			
28	Bottom Lateral Connection Plates	LOS-LIN at LOS, LIN-L2S at LIN, L2N-L3S at L2N, L3N-L4S at L3N, L4N-L5S at L5S, L5N-L6S at L6S, L6N-L7S at L7S, L10S-L11N at L10S, L12N-L13S at L13S, L15N-L16S at L16S, L17N-L18S at L18S, L18N-L19S at L19S, L22'N-L21'S at L21'S, L21'S-L20'N at L21'S, L20'N-L19'S at L19'S, L18'N-L17'S at L18'N, L16'N-L15'S at L16'N, L13'S-L12'N at L12'N, L7'N-L6'S at L6'S, L6'N-L5'S at L6'N	Replace bottom lateral connection plates or end stay plates			



– MAIN SPAN REPAIRS 3	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
OVER MISSISSIPPI RIVER		1BR, DRS-2	ST. CLAIR	156	27
			CONTRACT	NO. 7	6B03
S138 SHEETS		ILLINOIS FED. AI	D PROJECT		

Note: For 2013 NBIS defect item number and sheet reference, see sheets S4 and S5.



ID. NO.	Item	Location	Action
-	Structure Painting	Entire Structure - select locations	Clean and paint repair areas and 5' on each side of deck joints; the existing paint system may contain lead
-	Drainage System	Entire Structure	Replace/Repair drainage system; extend downspouts; clean out drains and drainage system
-	Miscellaneous Steel Repairs	Various members	Remove miscellaneous steel welded to structural members; replace defective fasteners
-	Concrete Median Barrier	Pier 11 to Bent 18	Repair median tie rods
1	Joint	Pier 13	Replace finger joint trough
2	Joints	Pier 12 and Bent 18	Replace neoprene joints with strip seals
3	Joint	Bent 17	Replace preformed joint with strip seal
4	Concrete Deck Repairs	Pier 11 to Bent 18	Perform partial depth concrete repairs; seal concrete dec.
8	Bearing	Bent 17 at Beam 3; Bent 18 at Beam 4	Shim gap between bearing plates; replace tap bolts
9	Bearing	Bent 18 N. Column Base	Clean bearing surfaces at column bases
11	Steel Columns and Bents	Bent Cap 13; Bent Cap 17; Bent 17 N. Column; Bent Cap 18; Bent 18 N. Column	Repair and/or strengthen caps and columns
14	Substructure	Pier 12 and Bent 18	Formed concrete repair
28	Bottom Lateral Connection Plates	Span 12 UOS-L1N at L1N; UON-L1S at L1S; L1N-L2S at L1N; L1S-L2N at L1S Span 13 LOS-L1N at L1N; L1N-L2S at L1N	Replace bottom lateral connection plates
29	Floorbeams	Spans 12 and 13	Strengthen floorbeams (All 18)
30	Beams	Span 18	Strengthen beams 2, 3, 4, 5 and 6
31	Bearings	Span 17 at Bent 17, Beams 2 and 6; Bent 18, North Column at Base	Remove pack rust

STATE OF ILLINOIS

DEPARTMENT OF TRANSPORTATION

CURVE DATA Curve No. 3 P.I. Sta. = 31+22.79

⊿ = 3°00′03″ (RT) D = 0°42'00''R = 8185,11' T = 214.39' L = 428.69' E = 2.81' P.C. Sta. = 29+08.40

P.T. Sta. = 33+37.09

MODJESKI and MASTERS

PLOT SCALE =

PLOT DATE = 03/20/2014

CHECKED - CDB

CHECKED - JMH

- AEC

DRAWN

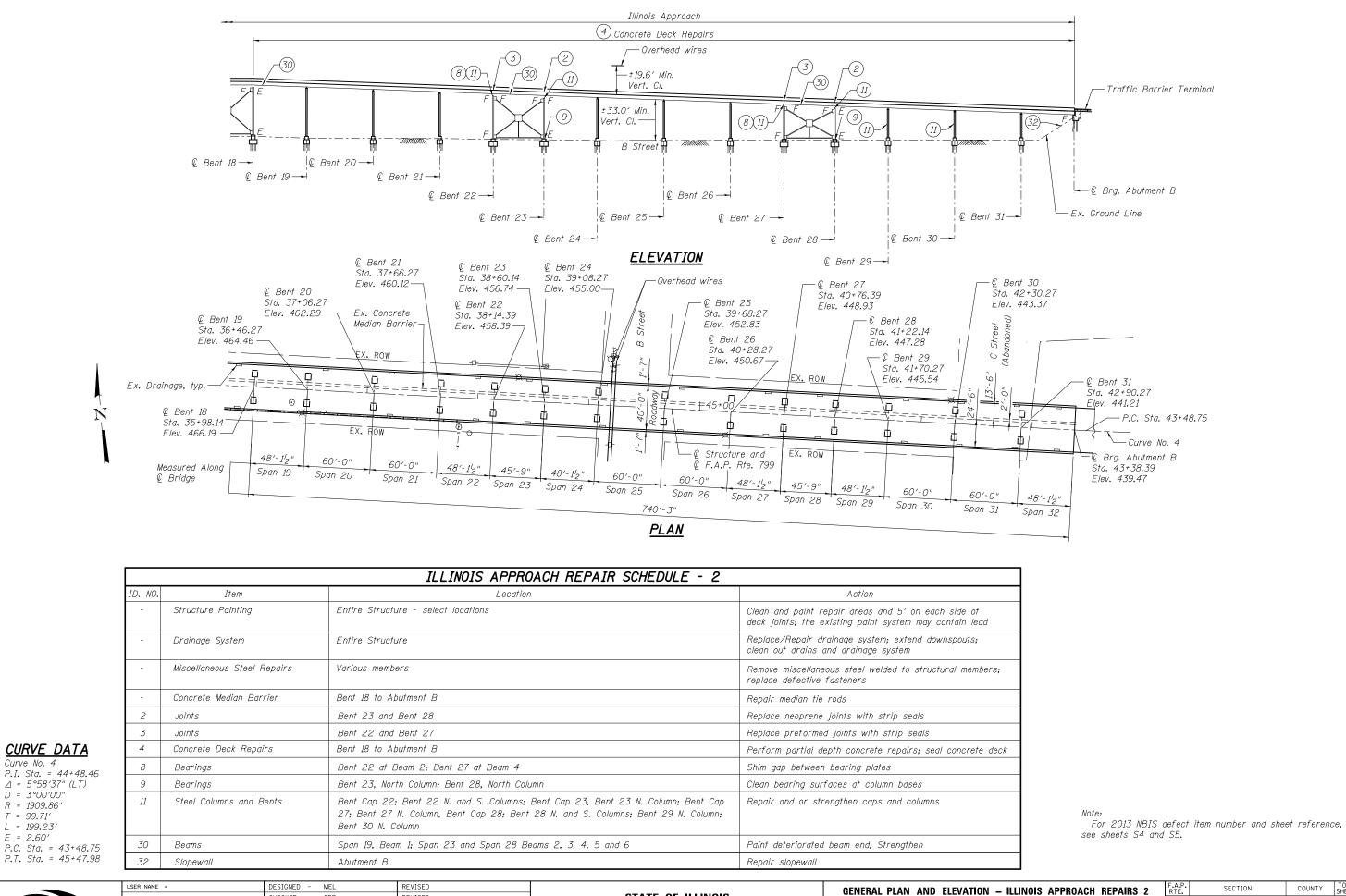
REVISED

REVISED

REVISED

Note: For 2013 NBIS defect item number and sheet reference, see sheets S4 and S5.

RAL PLAN AND ELEVATION – ILLINOIS APPROACH REPAIRS 1	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
S.N. 082–6001 MLK BRIDGE OVER MISSISSIPPI RIVER	799	1BR, DRS-2	ST. CLAIR	156	28
			CONTRACT	NO. 7	76B03
SHEET NO. S10 OF S138 SHEETS		ILLINOIS FED. AI	D PROJECT		

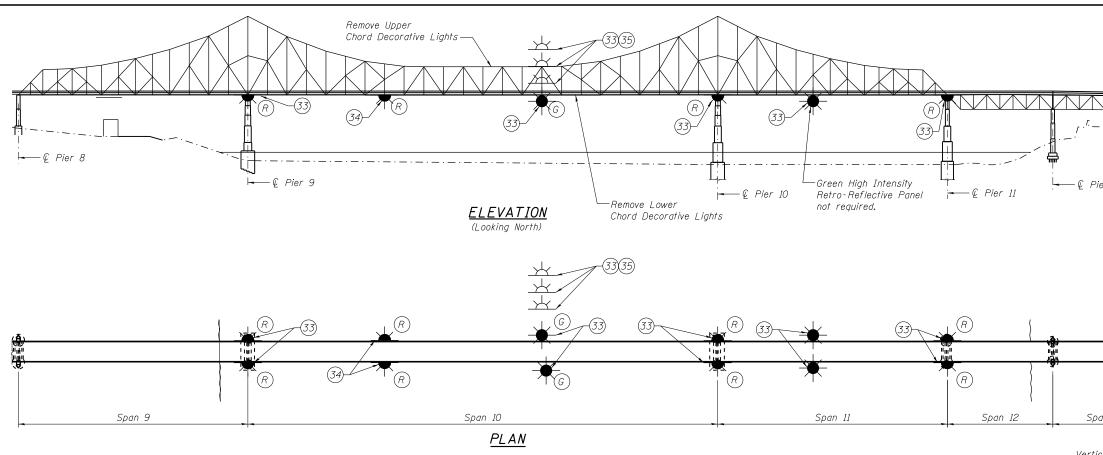


ID. NO.	Item	Location	Action
1D. NO.	11em		ACHON
-	Structure Painting	Entire Structure - select locations	Clean and paint repair areas and 5' on each side of deck joints; the existing paint system may contain lea
-	Drainage System	Entire Structure	Replace/Repair drainage system; extend downspouts; clean out drains and drainage system
-	Miscellaneous Steel Repairs	Various members	Remove miscellaneous steel welded to structural mem replace defective fasteners
-	Concrete Median Barrier	Bent 18 to Abutment B	Repair median tie rods
2	Joints	Bent 23 and Bent 28	Replace neoprene joints with strip seals
3	Joints	Bent 22 and Bent 27	Replace preformed joints with strip seals
4	Concrete Deck Repairs	Bent 18 to Abutment B	Perform partial depth concrete repairs; seal concret
8	Bearings	Bent 22 at Beam 2; Bent 27 at Beam 4	Shim gap between bearing plates
9	Bearings	Bent 23, North Column; Bent 28, North Column	Clean bearing surfaces at column bases
11	Steel Columns and Bents	Bent Cap 22; Bent 22 N. and S. Columns; Bent Cap 23, Bent 23 N. Column; Bent Cap 27; Bent 27 N. Column, Bent Cap 28; Bent 28 N. and S. Columns; Bent 29 N. Column; Bent 30 N. Column	Repair and or strengthen caps and columns
30	Beams	Span 19, Beam 1; Span 23 and Span 28 Beams 2, 3, 4, 5 and 6	Paint deteriorated beam end; Strengthen
32	Slopewall	Abutment B	Repair slopewall

CONTE	
Curve No.	4
P.I. Sta.	= 44+48.4
⊿ = 5°58	′37" (LT)
D = 3°00	′00″

R = 1909.86' T = 99.71' L = 199.23' E = 2.60' P.C. Sta. = 43+48.7 P.T. Sta. = 45+47.9

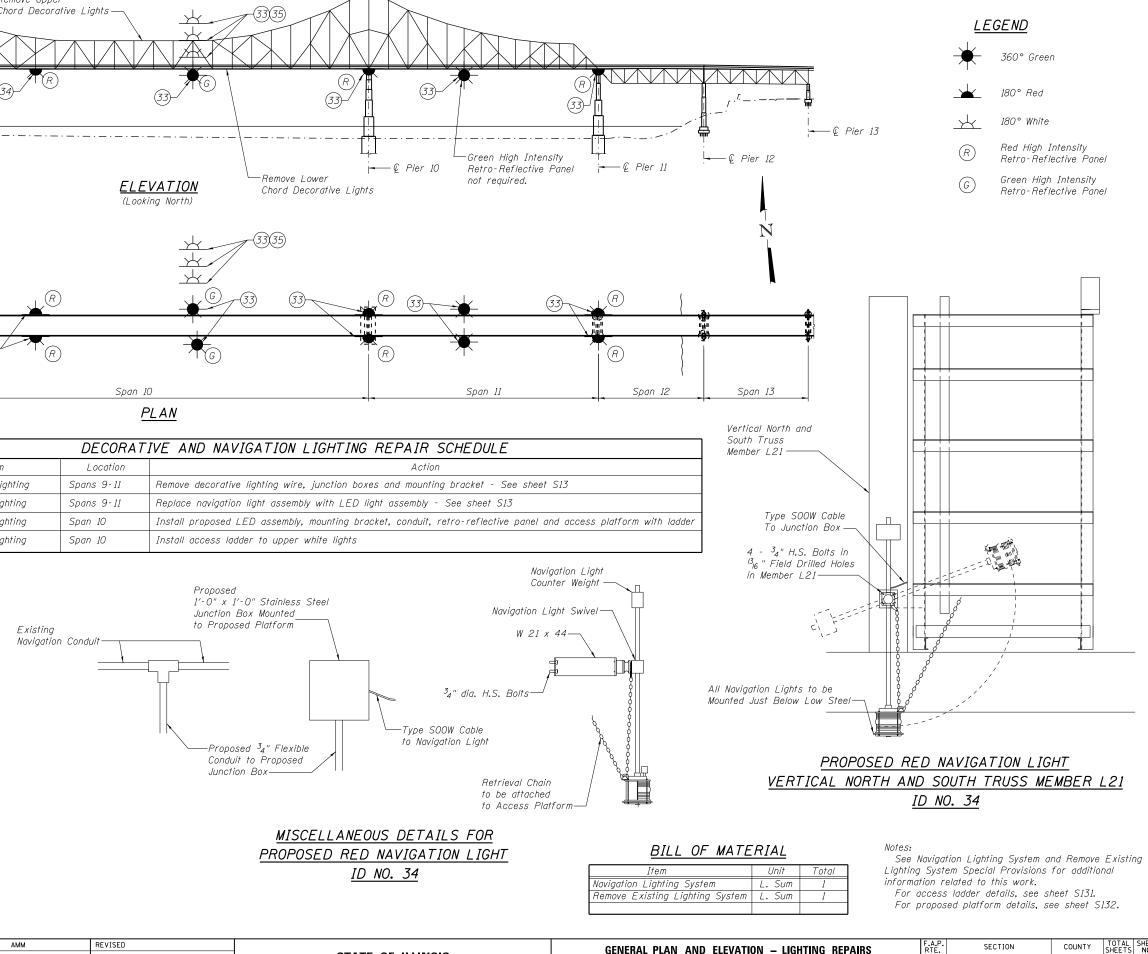
US	JSER NAME =	DESIGNED - MEL	REVISED		GENERAL PLAN AND ELEVATION – ILLINOIS APPROACH REPAIRS 2	F.A.P. SECTION	COUNTY TOTAL SHEET
		CHECKED - CDB	REVISED	STATE OF ILLINOIS	S.N. 082–6001 MLK BRIDGE OVER MISSISSIPPI RIVER	799 1BR, DRS-2	ST. CLAIR 156 29
	PLOT SCALE =	DRAWN - AEC	REVISED	DEPARTMENT OF TRANSPORTATION	3.14. 002-0001 MEK DRIDGE OVER MISSISSIFFI RIVER		CONTRACT NO. 76B03
Experience great bridges. PL	PLOT DATE = 03/20/2014	CHECKED - JMH	REVISED		SHEET NO. S11 OF S138 SHEETS	ILLINOIS F	D. AID PROJECT



	DECORATIVE AND NAVIGATION LIGHTING REPAIR SCHEDULE					
ID. NO.	Item	Location	Action			
-	Decorative Lighting	Spans 9-11	Remove decorative lighting wire, junction boxes and mounting bracket - See sheet S13			
33	Navigation Lighting	Spans 9-11	Replace navigation light assembly with LED light assembly - See sheet S13			
34	Navigation Lighting	Span 10	Install proposed LED assembly, mounting bracket, conduit, retro-reflective panel and access platform with ladder			
35	Navigation Lighting	Span 10	Install access ladder to upper white lights			

CONSTRUCTION SEQUENCE:

- 1. Remove the upper chord and lower chord decorative lights including drop boxes, equipment enclosures, mounts and mounting hardware, flexible cables, wires and conduits. The conduits should be checked to ensure that they do not carry wires for other bridge lights.
- 2. Remove 10 existing red or green navigation light assemblies.
- 3. Properly mount all proposed LED navigation light assemblies to existing mounts, modifying existing mounts only as needed to keep at same mounting height.
- 4. Any supporting equipment that is no longer needed shall be removed.
- 5. Replace white navigation light assemblies. a. Remove 3 existing white navigation light assemblies
 - and replace with LED navigation light assemblies. b. Verify location of existing white navigation light mounting brackets and adjust as necessary to meet current requirements. Replace conduit and mounting brackets as required, to meet vertical location requirements.
 - 1. The first light to be mounted between 10-15ft
 - above the green light.
 - 2. The white lights to be mounted 7-15ft apart.
- 6. Add new hardware at PP 21 for the mounting of the proposed red LED navigation light assembly. Install 4' x 4' red retro reflective panel which conforms to current USCG requirements to proposed North and South navigation light access platforms.



	USER NAME =	DESIGNED - AMM	REVISED		GENERAL PLAN AND ELEVATION – LIGHTING REPAIRS	F.A.P. RTF.	SECTION	COUNTY TOTAL SHEET
		CHECKED - JGS	REVISED	STATE OF ILLINOIS	S.N. 082–6001 MLK BRIDGE OVER MISSISSIPPI RIVER	799	1BR, DRS-2	ST. CLAIR 156 30
MODJESKI		DRAWN - AMM	REVISED	DEPARTMENT OF TRANSPORTATION	5.N. 082-0001 WILK BRIDGE OVER WISSISSIPPI RIVER			CONTRACT NO. 76B03
Experience great b	PLOT DATE = 05/02/2014	CHECKED - JGS	REVISED		SHEET NO. S12 OF S138 SHEETS		ILLINOIS FED	. AID PROJECT



EXISTING NAVIGATION LIGHT (TYPICAL)

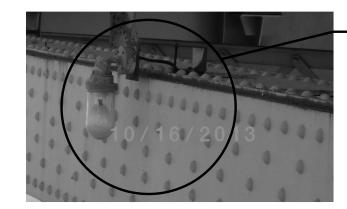
Replace Each Span Navigation Light Assembly with LED Navigation Light Assemblies at Exisiting Mounting Brackets



EXISTING UPPER CHORD DECORATIVE LIGHTING (TYPICAL)



Replace Each White Navigation Light Assembly with LED Navigation Light Assemblies (see Construction Sequence on Sheet S12)



EXISTING LOWER CHORD DECORATIVE LIGHTING (TYPICAL)

EXISTING WHITE NAVIGATION LIGHT (TYPICAL)

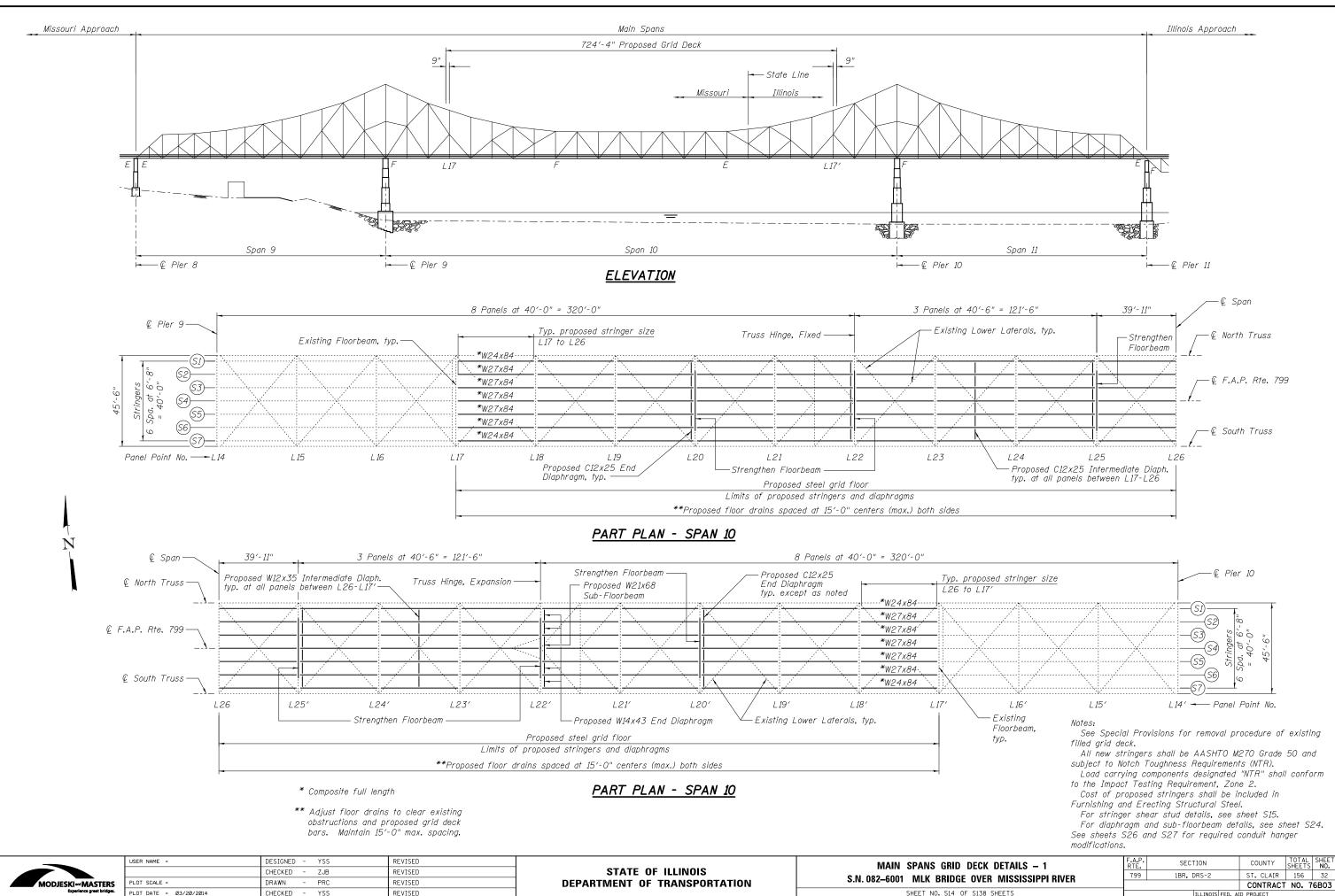
MODJESKI and MAS Experience great

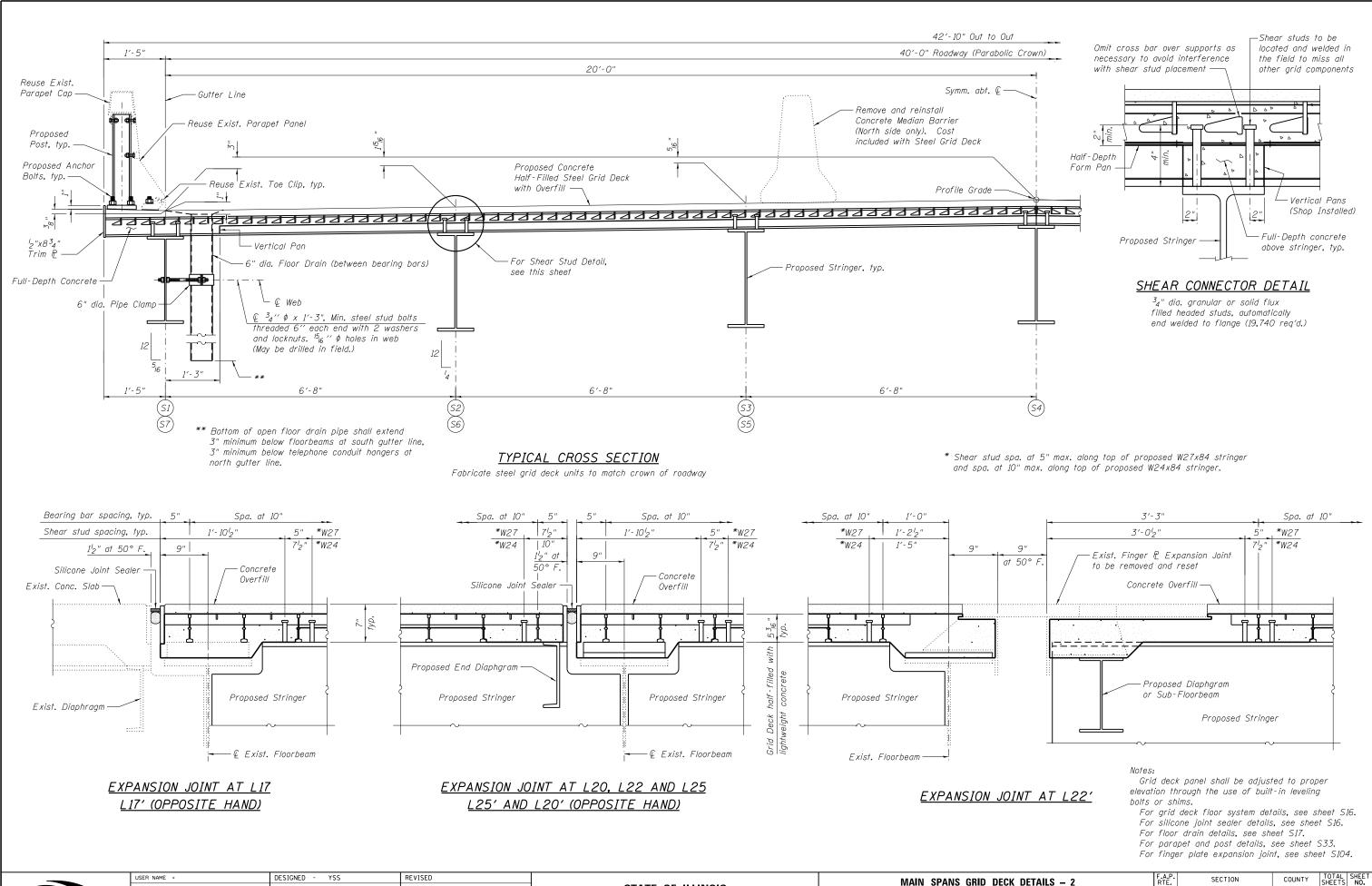
	USER NAME =	DESIGNED - AMM	REVISED		EXISTING LIGHTING DETAILS	F.A.P.	SECTION	COUNTY	TOTAL	HEET
		CHECKED - JGS	REVISED	STATE OF ILLINOIS		799	1BR, DRS-2	ST. CLAIR	156	31
MASTERS	PLOT SCALE =	DRAWN - AMM	REVISED	DEPARTMENT OF TRANSPORTATION	S.N. 082–6001 MLK BRIDGE OVER MISSISSIPPI RIVER			CONTRACT	NO. 76	B03
ce great bridges.	PLOT DATE = 03/20/2014	CHECKED - JGS	REVISED		SHEET NO. S13 OF S138 SHEETS		ILLINOIS FED. AI	D PROJECT		



Remove Upper Chord Decorative Lights, Supports, and Cable Back to Nearest Junction Box

Remove Lower Chord Decorative Lights, Supports, and Cable Back to Nearest Junction Box



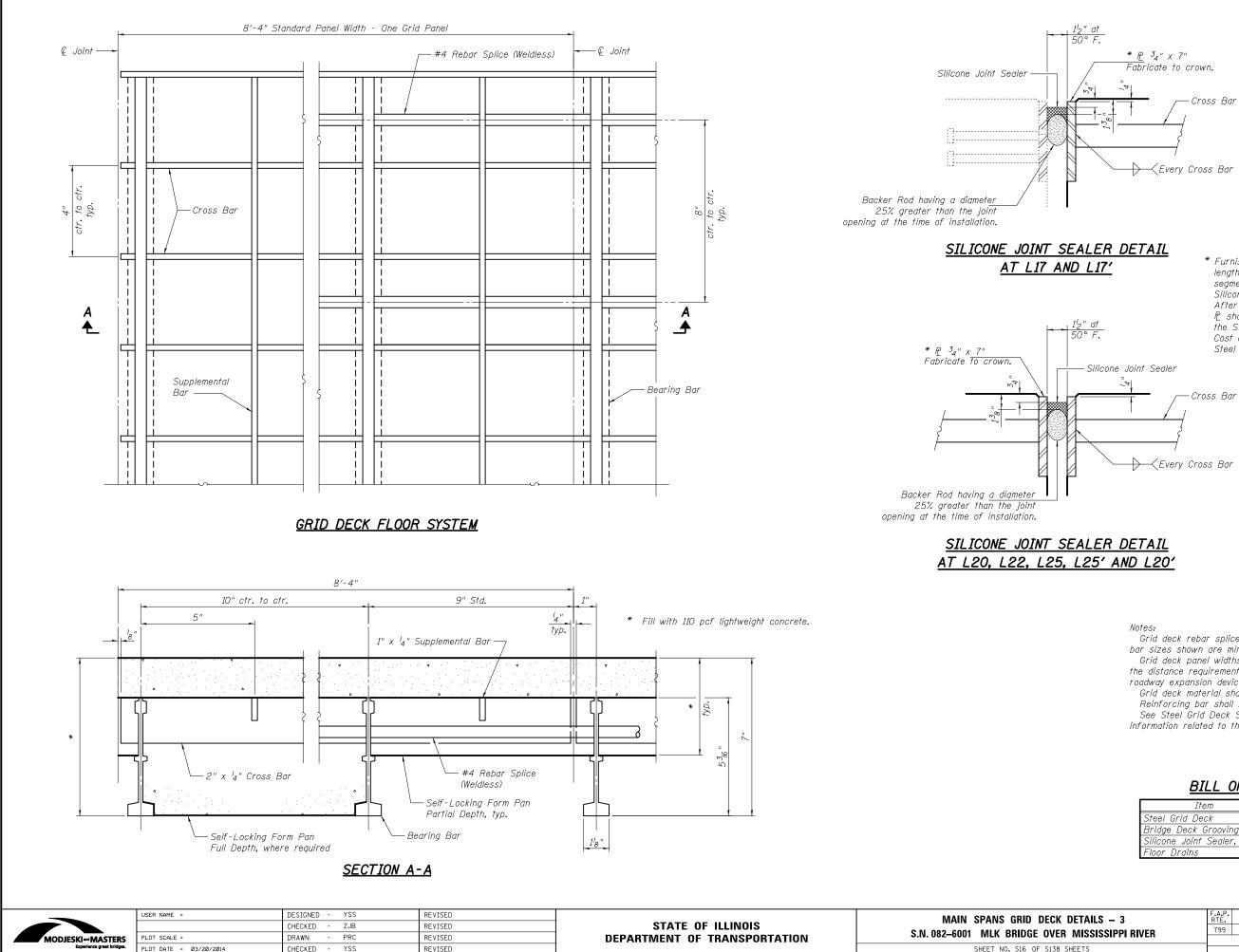


	MODJESKI®MASIEKS
Experiments great bidget. PLOT DATE = 05/02/2014 CHECKED - YSS REVISED SHEET NO. SI5	Experience great bridges.

 ECK DETAILS - 2
 F.A.P. RTE.
 SECTION
 COUNTY
 TOTAL SHEETS
 SHEETS

 OVER MISSISSIPPI RIVER
 799
 1BR, DRS-2
 ST. CLAIR
 156
 33

 S138 SHEETS
 ILLINOIS|FED. AID PROJECT
 CONTRACT NO. 76B03



* Furnish in segments of 20 ft. maximum length. Maximum space between installed segments shall be ^{'3}16". Seal space with Silicone Sealant suitable for Structural Steel. After fabrication, all surfaces of the steel R shall be galvanized in accordance with the Steel Grid Deck Special Provision. Cost of the plate shall be included with Steel Grid Deck.

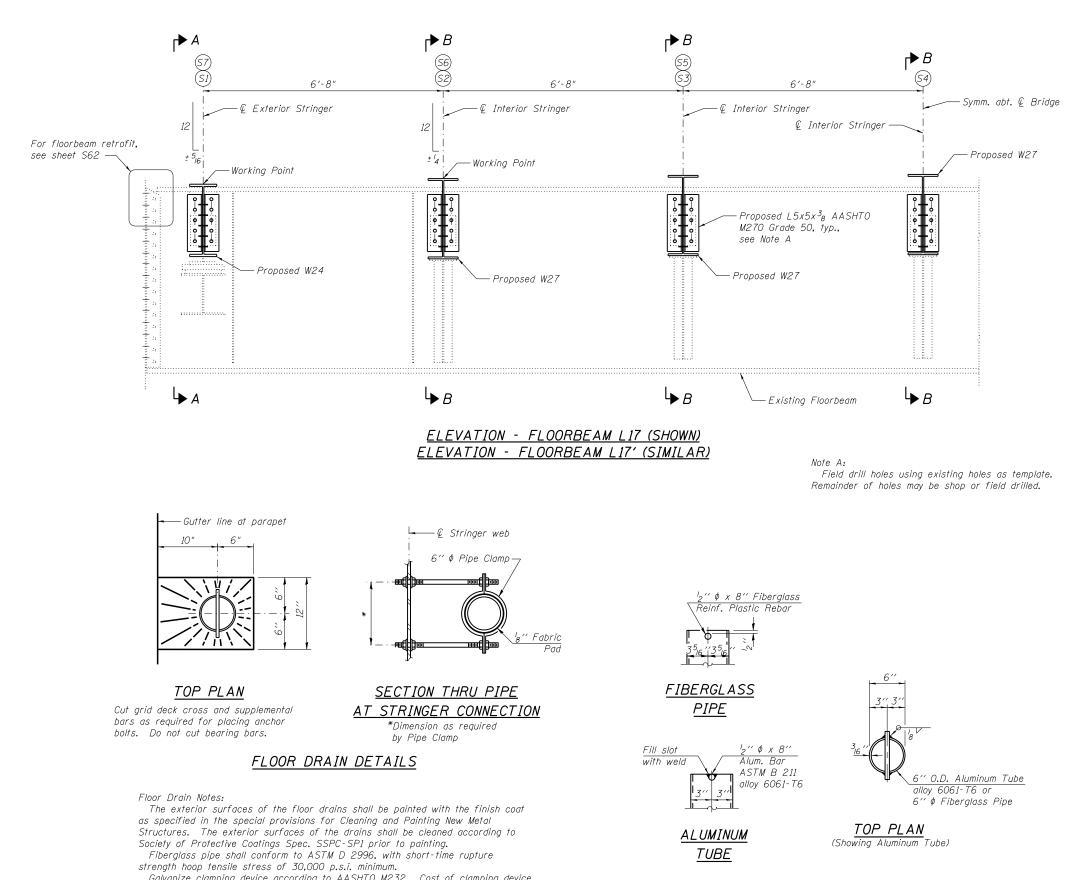
Grid deck rebar splice, cross bar and supplementary bar sizes shown are minimums, see Special Provisions. Grid deck panel widths may be adjusted to meet the distance requirements of the grid deck between roadway expansion devices.

Grid deck material shall be AASHTO M270 Grade 50. Reinforcing bar shall be AASHTO M31 Grade 60. See Steel Grid Deck Special Provision for additional information related to this work.

BILL OF MATERIAL

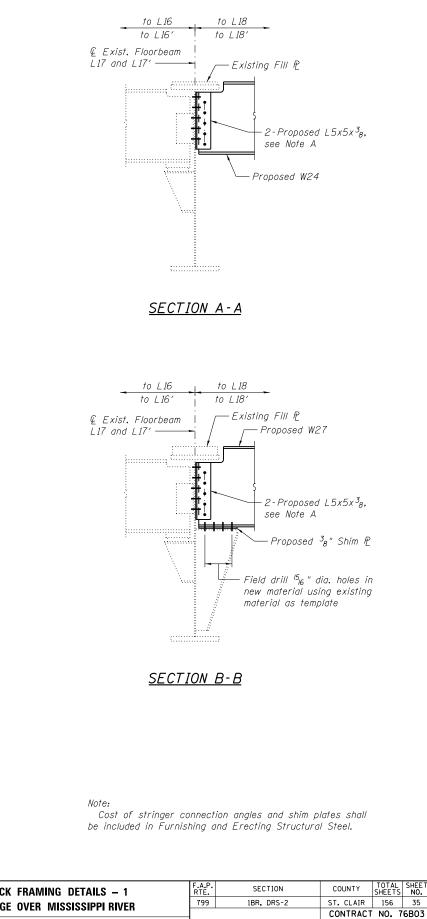
Item	Unit	Total
Steel Grid Deck	Sq. Ft.	31,026
Bridge Deck Grooving	Sq. Yd.	3058
Silicone Joint Sealer, 1.5"	Foot	300
Floor Drains	Each	100

ECK DETAILS – 3	F.A.P. RTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
OVER MISSISSIPPI RIVER	799	1BR, DRS-2	ST. CLAIR	156	34
			CONTRACT	NO. 7	6B03
S138 SHEETS		ILLINOIS FED. A	ID PROJECT		



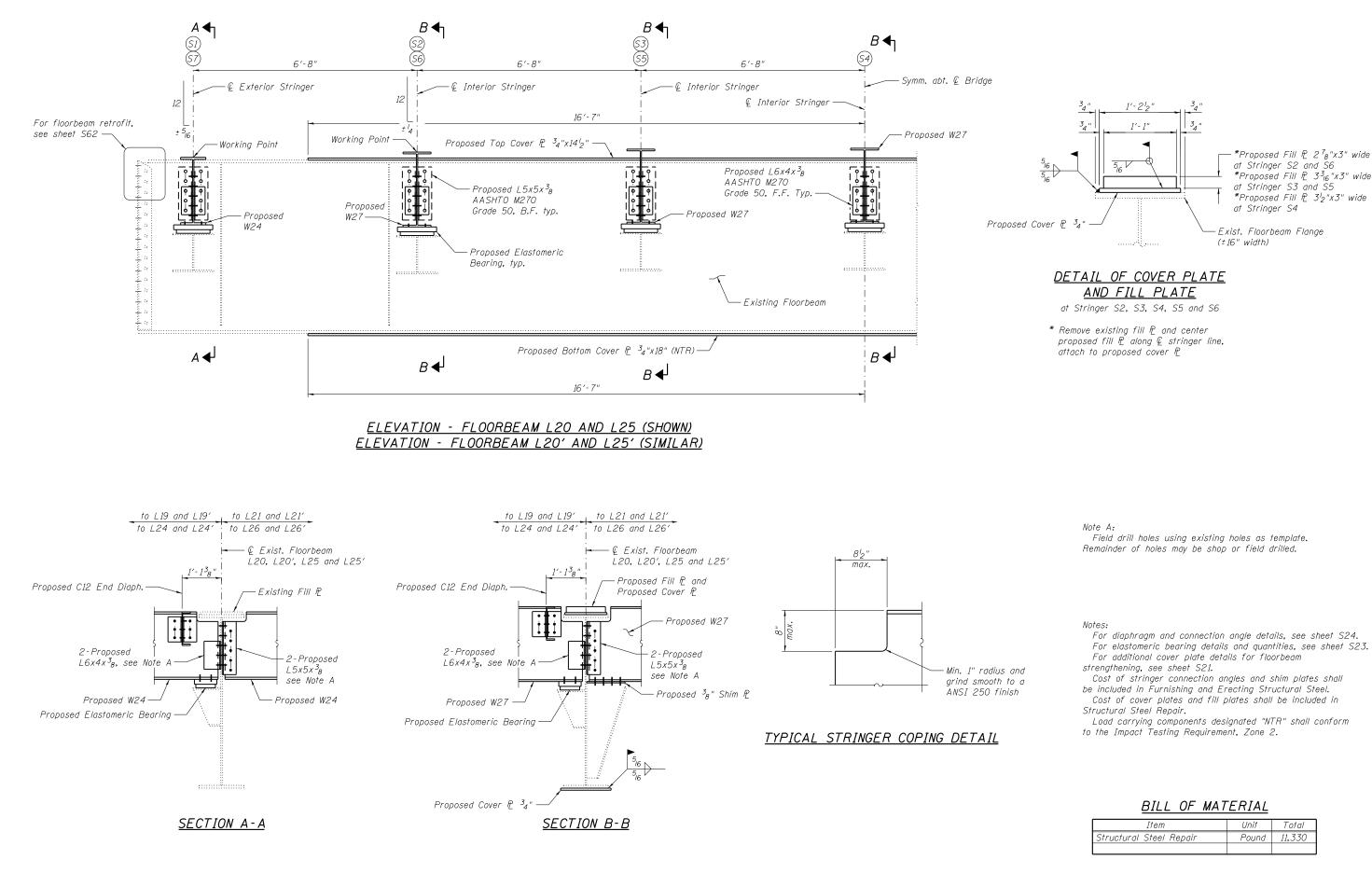
Galvanize clamping device according to AASHTO M232. Cost of clamping device and inserts is included with Floor Drains.

MODJESKI-MASTERS	USER NAME = PLOT SCALE =	DESIGNED - YSS CHECKED - ZJB DRAWN - PRC	REVISED REVISED REVISED	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	MAIN SPANS GRID DECK S.N. 082–6001 MLK BRIDGE
Experience great bridges.	PLOT DATE = 05/02/2014	CHECKED - YSS	REVISED		SHEET NO. S17 OF



OF S138 SHEETS

ILLINOIS FED. AID PROJECT

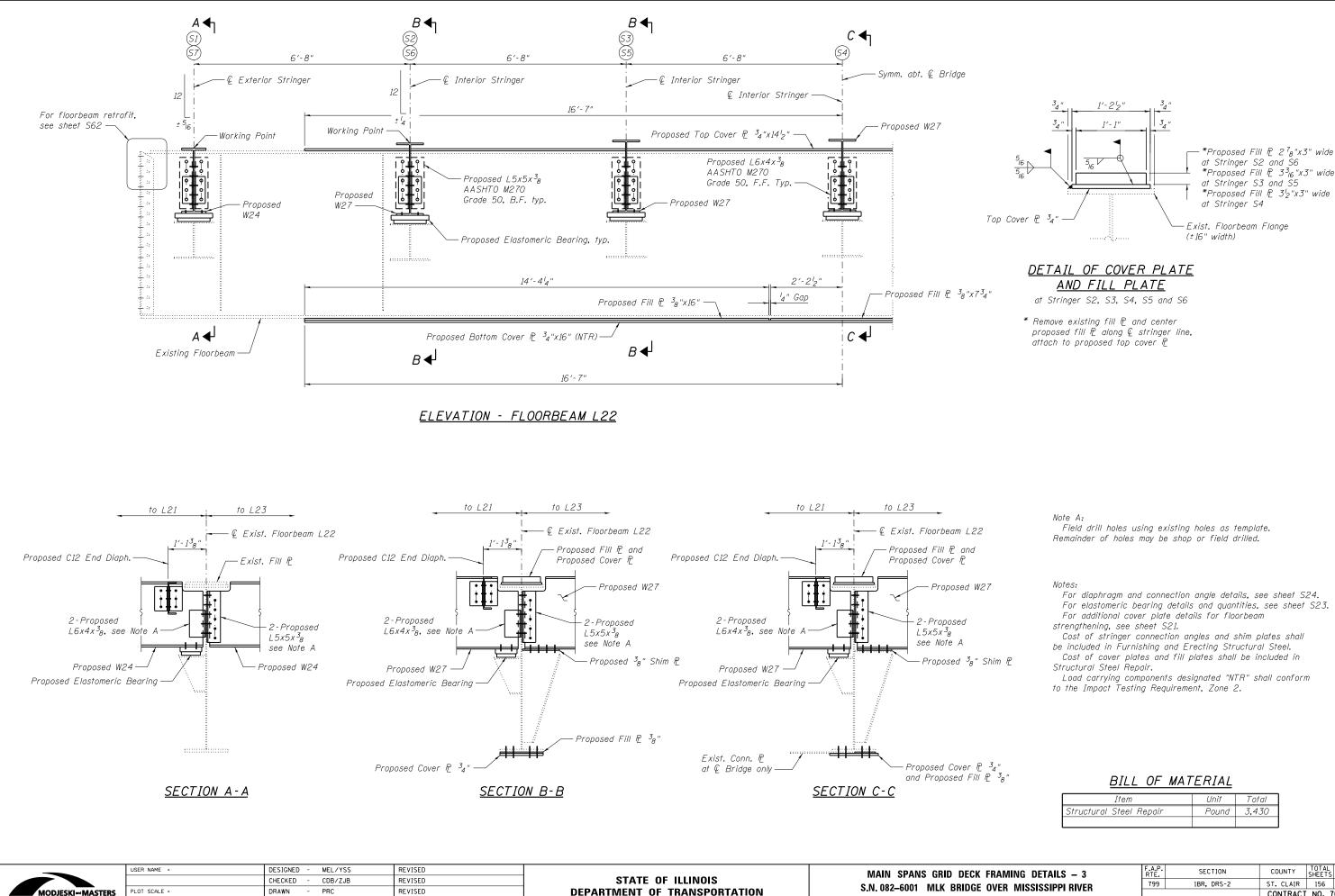


MODJESKI and MASTERS Experience great bridges.	

	USER NAME =	DESIGNED - MEL/YSS CHECKED - CDB/ZJB	REVISED REVISED	STATE OF ILLINOIS	MAIN SPANS GRID DECK FRA
MASTERS	PLOT SCALE =	DRAWN - PRC	REVISED	DEPARTMENT OF TRANSPORTATION	S.N. 082–6001 MLK BRIDGE OVE
ce great bridges.	PLOT DATE = 05/02/2014	CHECKED - MEL/YSS	REVISED		SHEET NO. S18 OF S138

Item	Unit	Total
Structural Steel Repair	Pound	11,330

RAMING DETAILS – 2	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VER MISSISSIPPI RIVER	799	1BR, DRS-2	ST. CLAIR	156	36
			CONTRACT	NO. 7	6B03
138 SHEETS	ILLINOIS FED. AID PROJECT				



CHECKED -

LOT DATE = 05/02/2014

MEL/YSS

REVISED

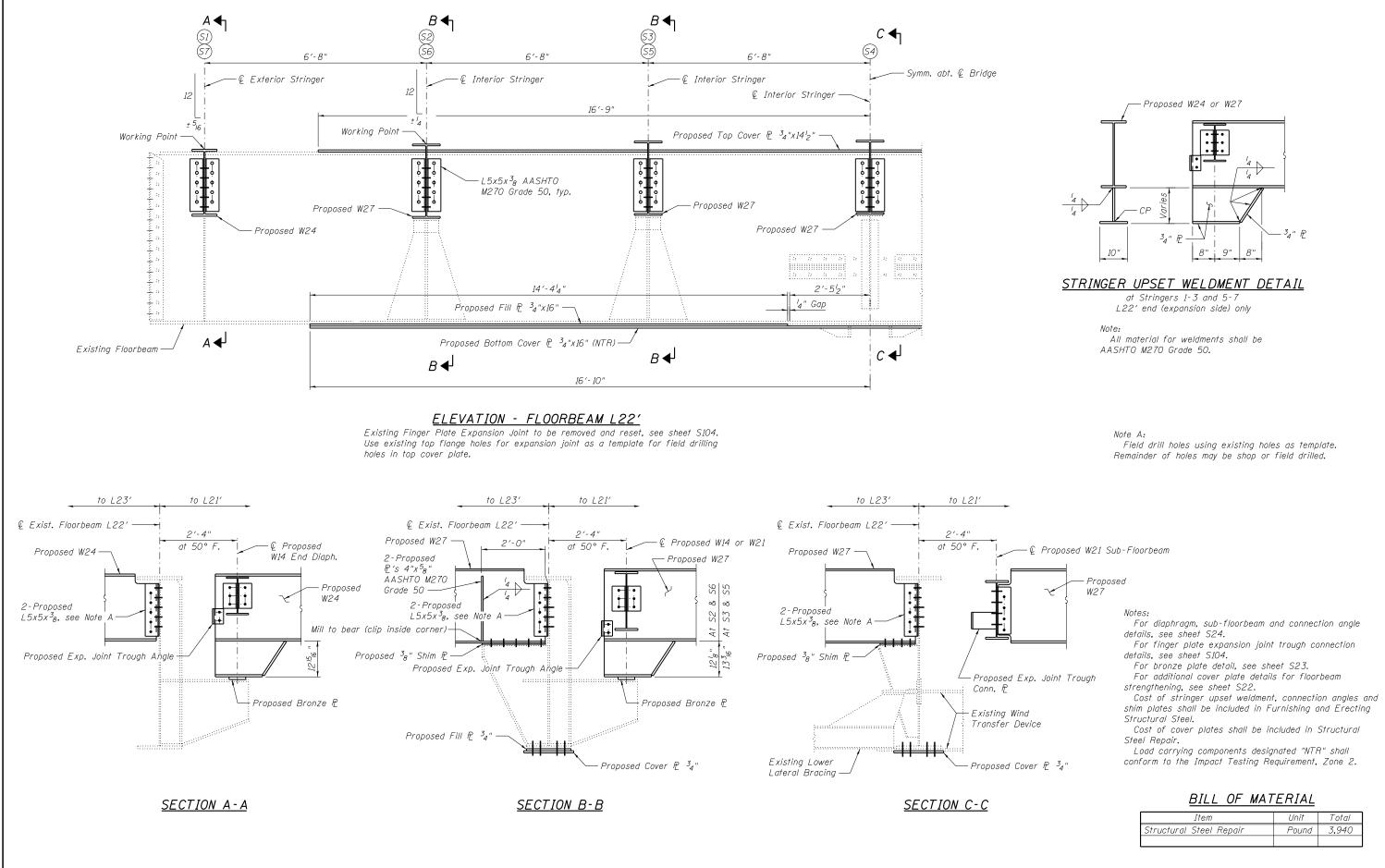
SHEET NO. S19 OF S

For diaphragm and connection angle details, see sheet S24. For elastomeric bearing details and quantities, see sheet S23.

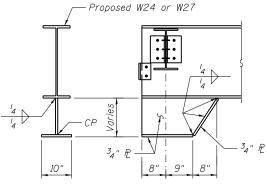
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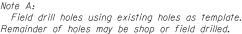
Item	Unit	Total
Structural Steel Repair	Pound	3,430

RAMING DETAILS – 3	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VER MISSISSIPPI RIVER	799	1BR, DRS-2	ST. CLAIR	156	37
			CONTRACT	NO. 7	6B03
138 SHEETS		ILLINOIS FED. AI	D PROJECT		

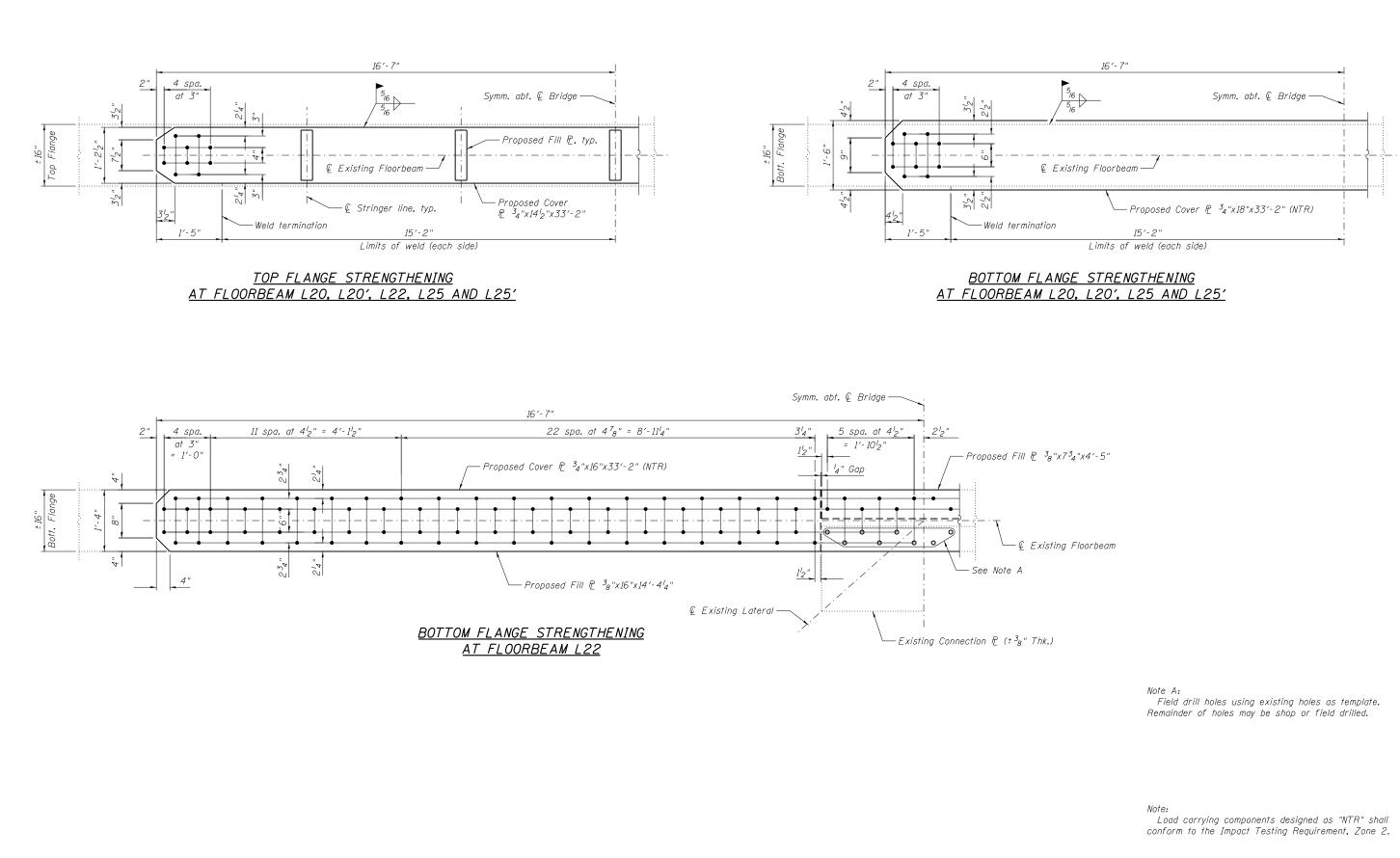


	USER NAME =	DESIGNED - MEL/YSS	REVISED		MAIN SPANS GRID DECK FRAMING DETAILS – 4	F.A.P. RTE.	SECTION	COUNTY TOTAL SHEET SHEETS NO.
MODJESKI and MASTERS Experience great bridges.	PLOT SCALE =	CHECKED - CDB/ZJB DRAWN - PRC	REVISED REVISED	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	S.N. 082–6001 MLK BRIDGE OVER MISSISSIPPI RIVER	799	1BR, DRS-2	ST. CLAIR 156 38 CONTRACT NO. 76B03
	PLOT DATE = 05/02/2014	CHECKED - MEL/YSS	REVISED		SHEET NO. S20 OF S138 SHEETS		ILLINOIS FED. A	AID PROJECT



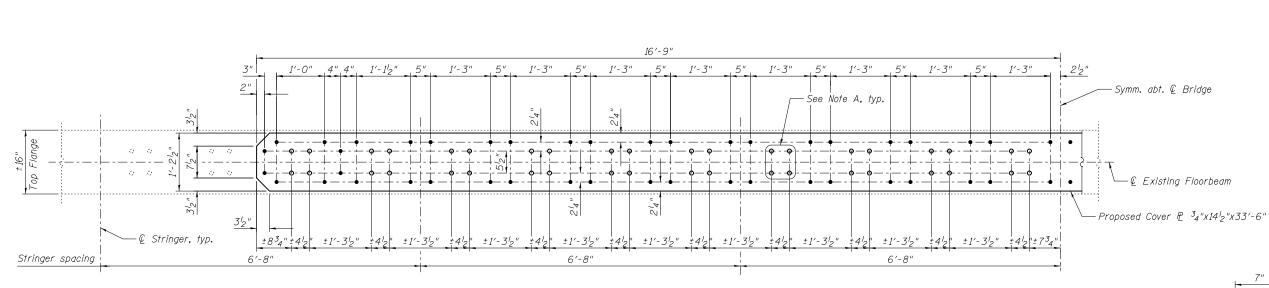


Item	Unit	Total
Structural Steel Repair	Pound	3,940

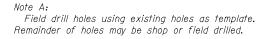


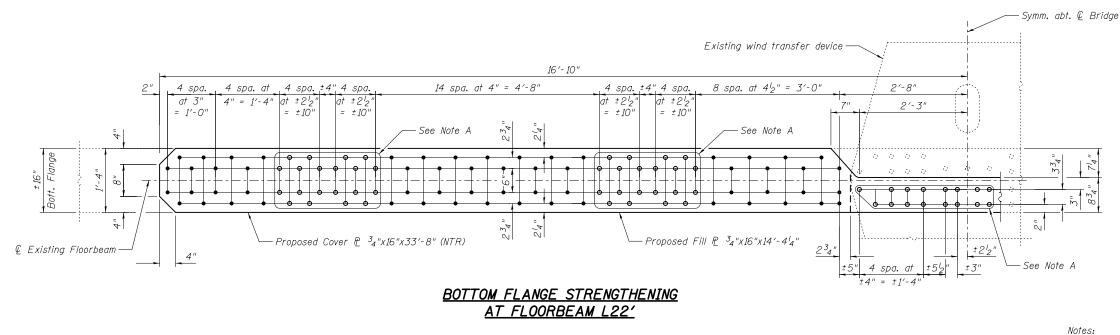
MODJESKI == MASTERS Experience great bridges.
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STERS	USER NAME = PLOT SCALE =	DESIGNED - MEL CHECKED - YSS DRAWN - PRC	REVISED REVISED REVISED	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	MAIN SPANS GRID DECK FRAMING DETAILS – 5 S.N. 082–6001 MLK BRIDGE OVER MISSISSIPPI RIVER	F.A.P. RTE. SECTION 799 IBR, DRS-2	COUNTY TOTAL SHEETS SHEET NO. ST. CLAIR 156 39 CONTRACT NO. 76B03
reat bridges.	PLOT DATE = 05/02/2014	CHECKED - MEL	REVISED		SHEET NO. S21 OF S138 SHEETS	ILLINOIS FED.	AID PROJECT

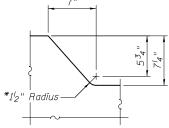


TOP FLANGE STRENGTHENING AT FLOORBEAM L22'







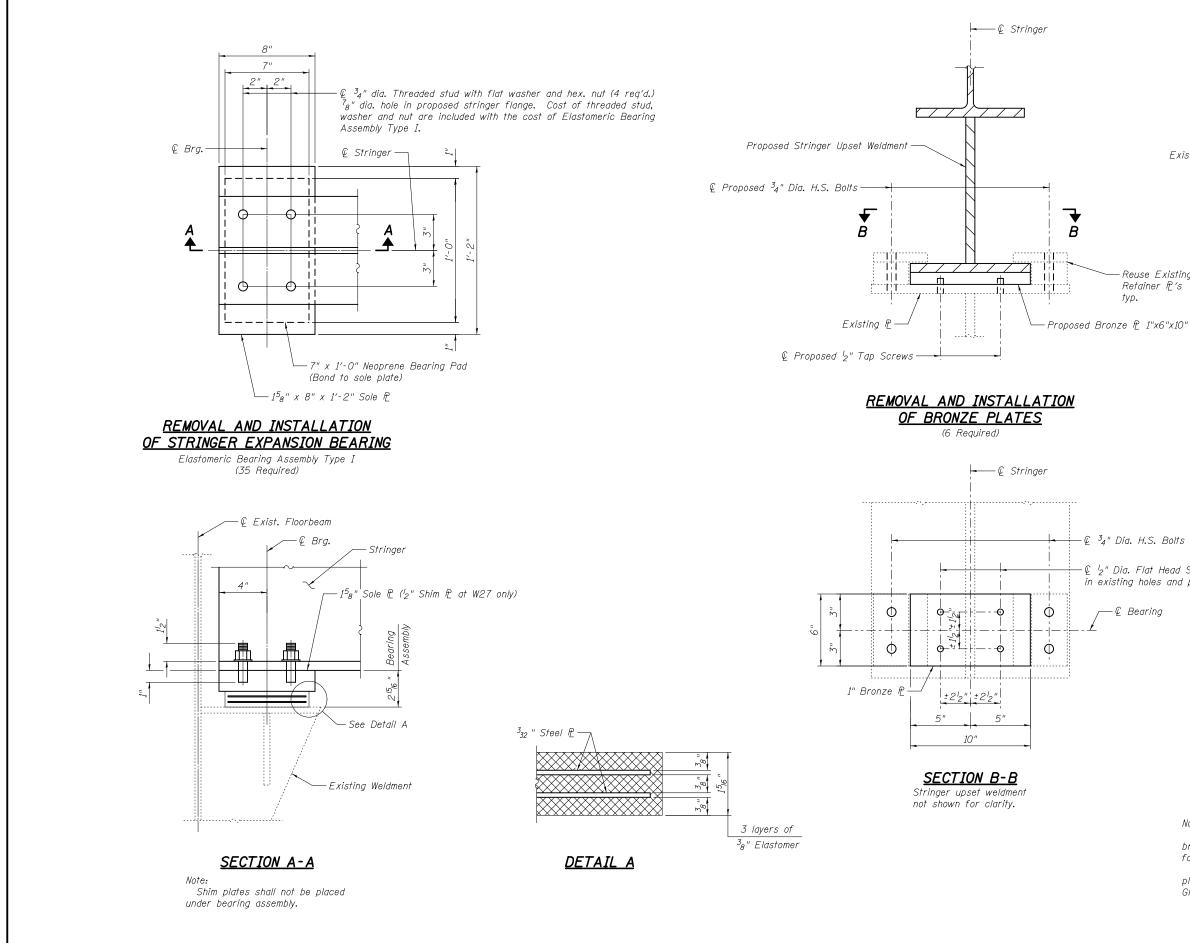


* Grind smooth to an ANSI 250 finish



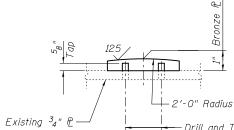
Load carrying components designed as "NTR" shall conform to the Impact Testing Requirement, Zone 2.

	_				
FRAMING DETAILS – 6	F.A.P. RTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
OVER MISSISSIPPI RIVER		1BR, DRS-2	ST. CLAIR	156	40
			CONTRACT	NO. 7	6B03
S138 SHEETS	ILLINOIS FED. AID PROJECT				



MODJE	SKI and MASTERS Experience great bridges.

	USER NAME =	DESIGNED - YSS	REVISED		MAIN SPANS GRID DECK FRAM
		CHECKED - ZJB	REVISED	STATE OF ILLINOIS	
S	PLOT SCALE =	DRAWN - PRC	REVISED	DEPARTMENT OF TRANSPORTATION	S.N. 082–6001 MLK BRIDGE OVER
65.	PLOT DATE = 03/20/2014	CHECKED - YSS	REVISED		SHEET NO. S23 OF S138



-Drill and Tap Bronze P for ^I2" Dia. Flat Head Steel Cap Screws (A307) use existing holes as template

PROPOSED BRONZE PLATE

Reuse Existing Retainer Æ's typ.

 \mathcal{Q} \mathcal{Z}_{4} " Dia. H.S. Bolts in existing holes

∉ ^I2" Dia. Flat Head Steel Cap Screws in existing holes and proposed holes

-∉ Bearing

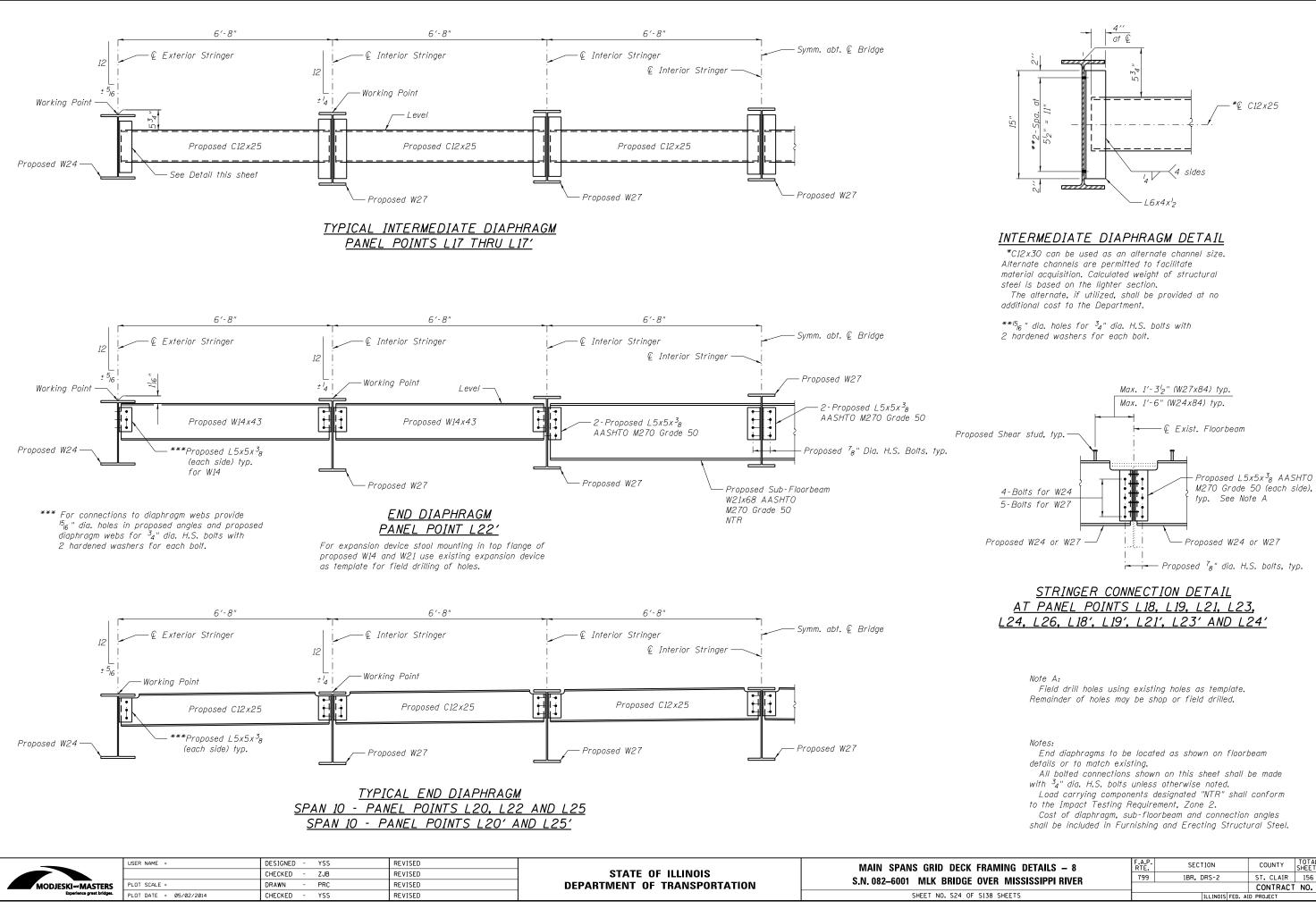
BILL OF MATERIAL

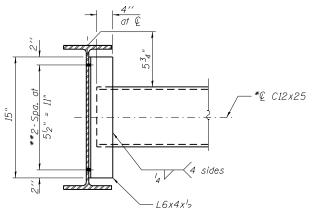
Item	Unit	Total
Elastomeric Bearing Assembly Type I	Each	35

Notes:

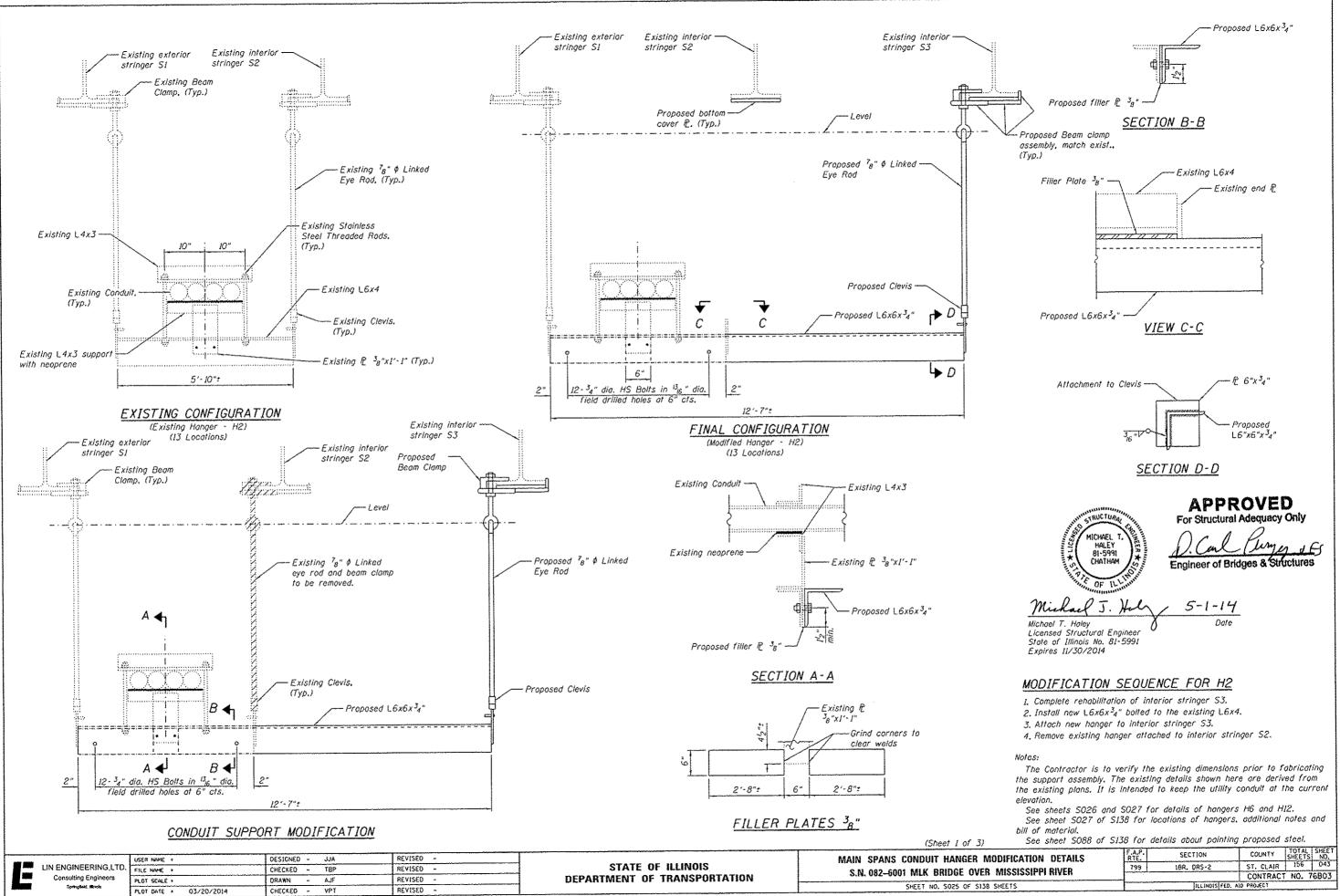
Bronze plates shall conform to ASTM B22. Cost of bronze plate and tap screw are included with the cost for Furnishing and Erecting Structural Steel. For removal of existing expansion bearing and bronze plate, see Special Provision "Removal of Existing Filled Grid Deck".

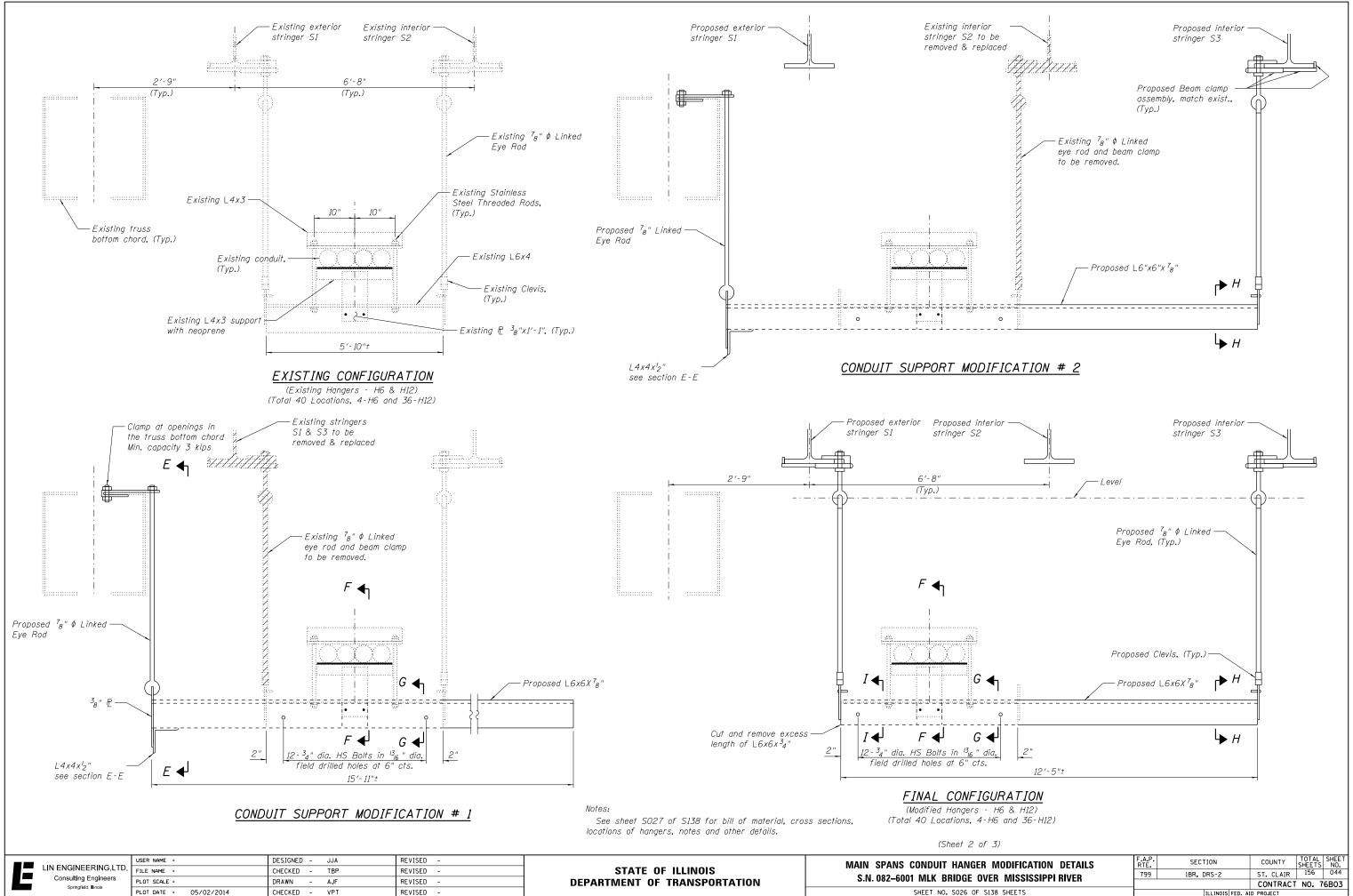
RAMING DETAILS – 7		SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VER MISSISSIPPI RIVER	799	1BR, DRS-2	ST. CLAIR	156	41
			CONTRACT	NO. 7	6B03
138 SHEETS		ILLINOIS FED. AI	D PROJECT		

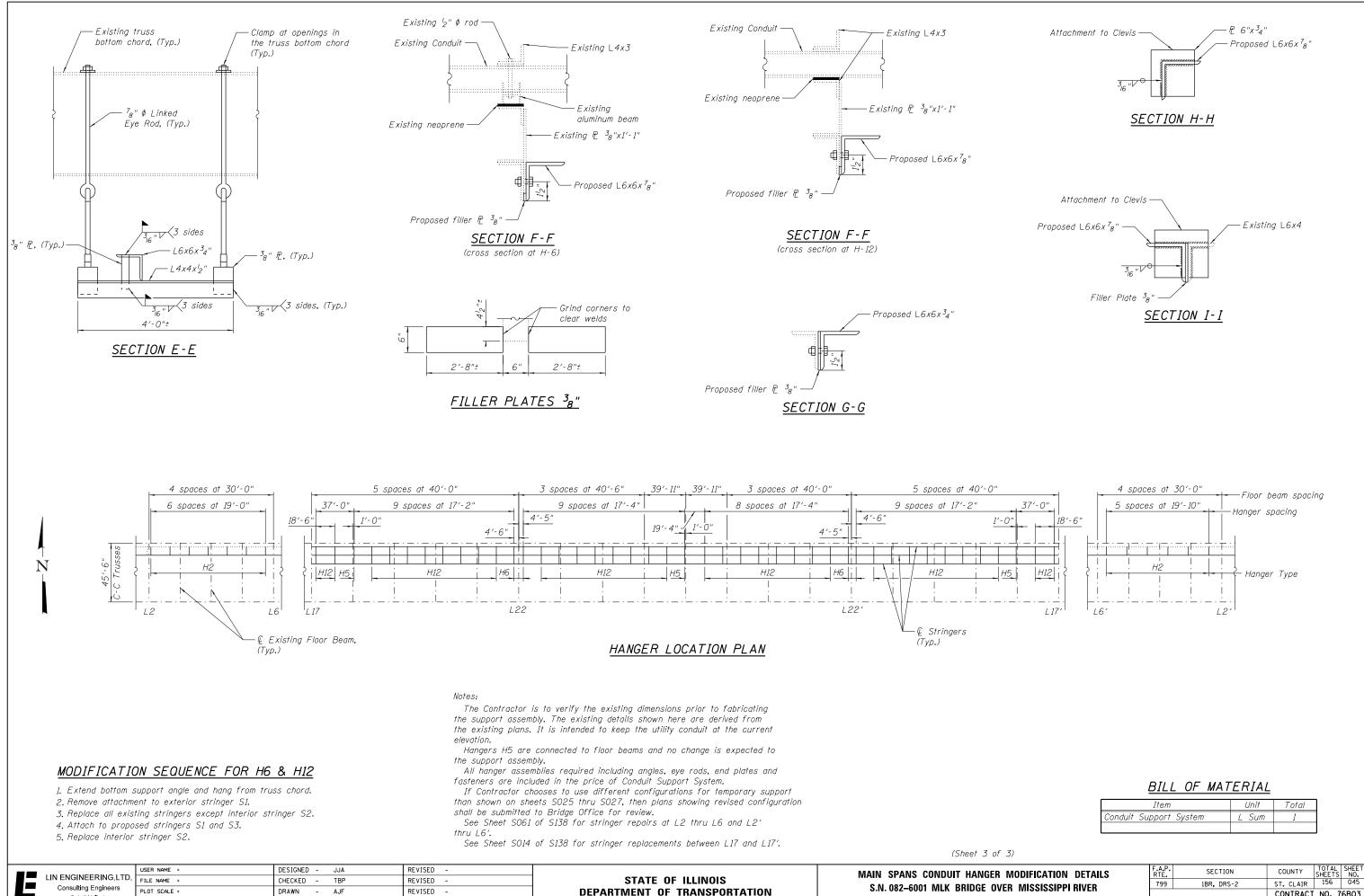




RAMING DETAILS – 8		SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
OVER MISSISSIPPI RIVER		1BR, DRS-2	ST. CLAIR	156	42	
			CONTRACT	NO. 7	6B03	
S138 SHEETS	ILLINOIS FED. AID PROJECT					



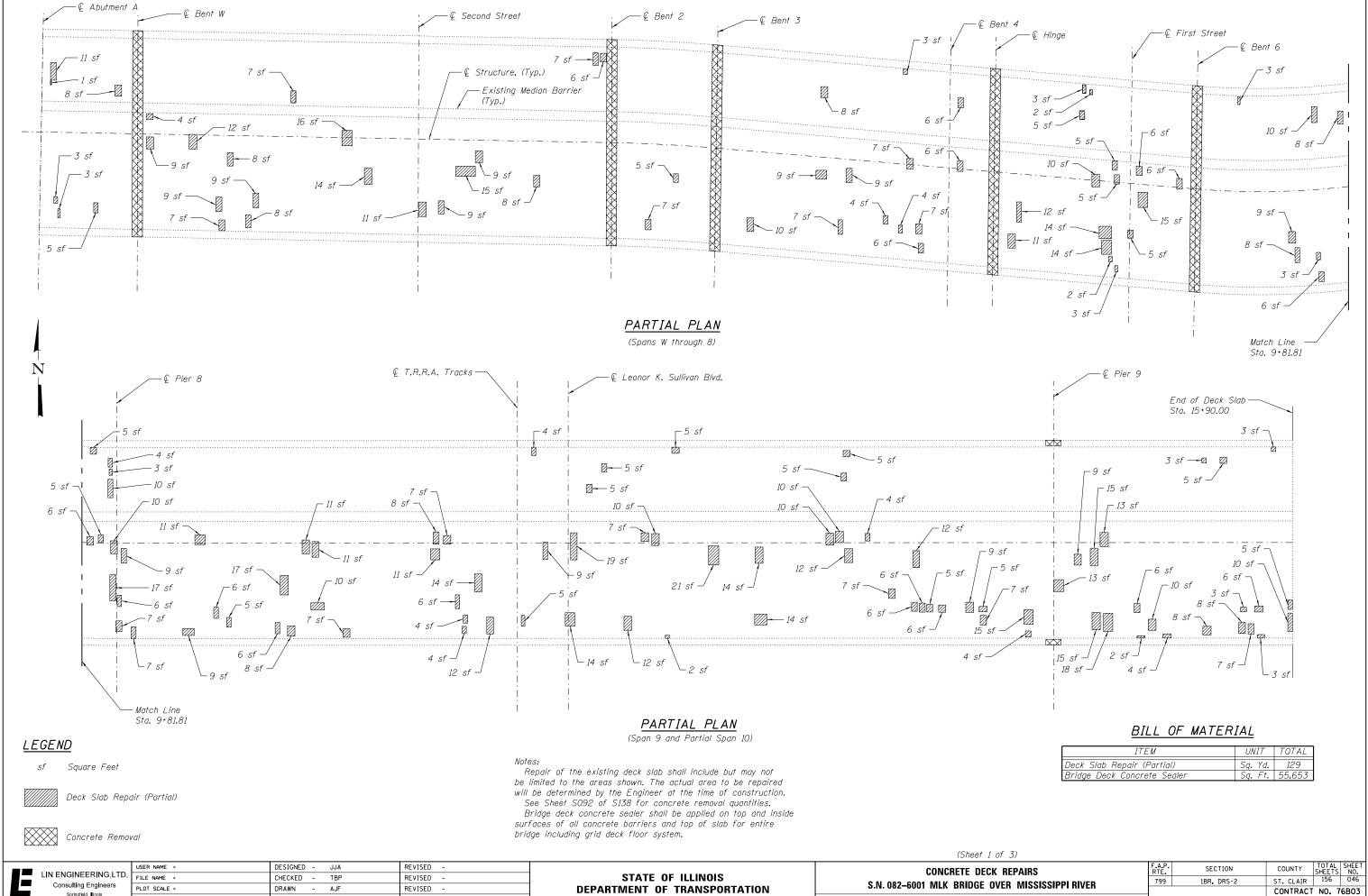




Springfield, Illinois

PLOT DATE = 05/02/2014

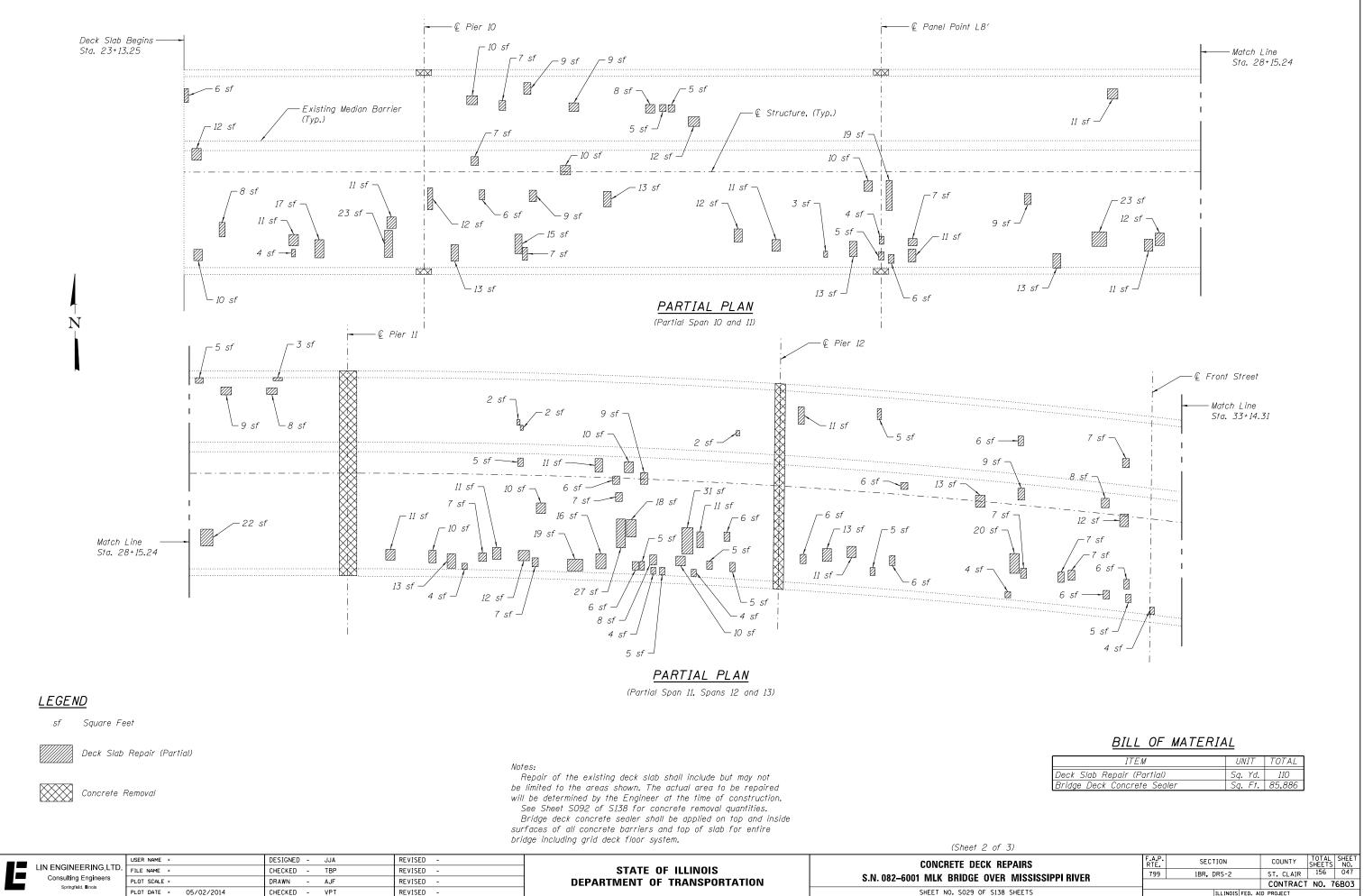
R MODIFICATION DETAILS VER MISSISSIPPI RIVER		SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
		1BR, DRS-2	ST. CLAIR	156	045
			CONTRACT	NO.7	6B03
S138 SHEETS		ILLINOIS FED. A	ID PROJECT		

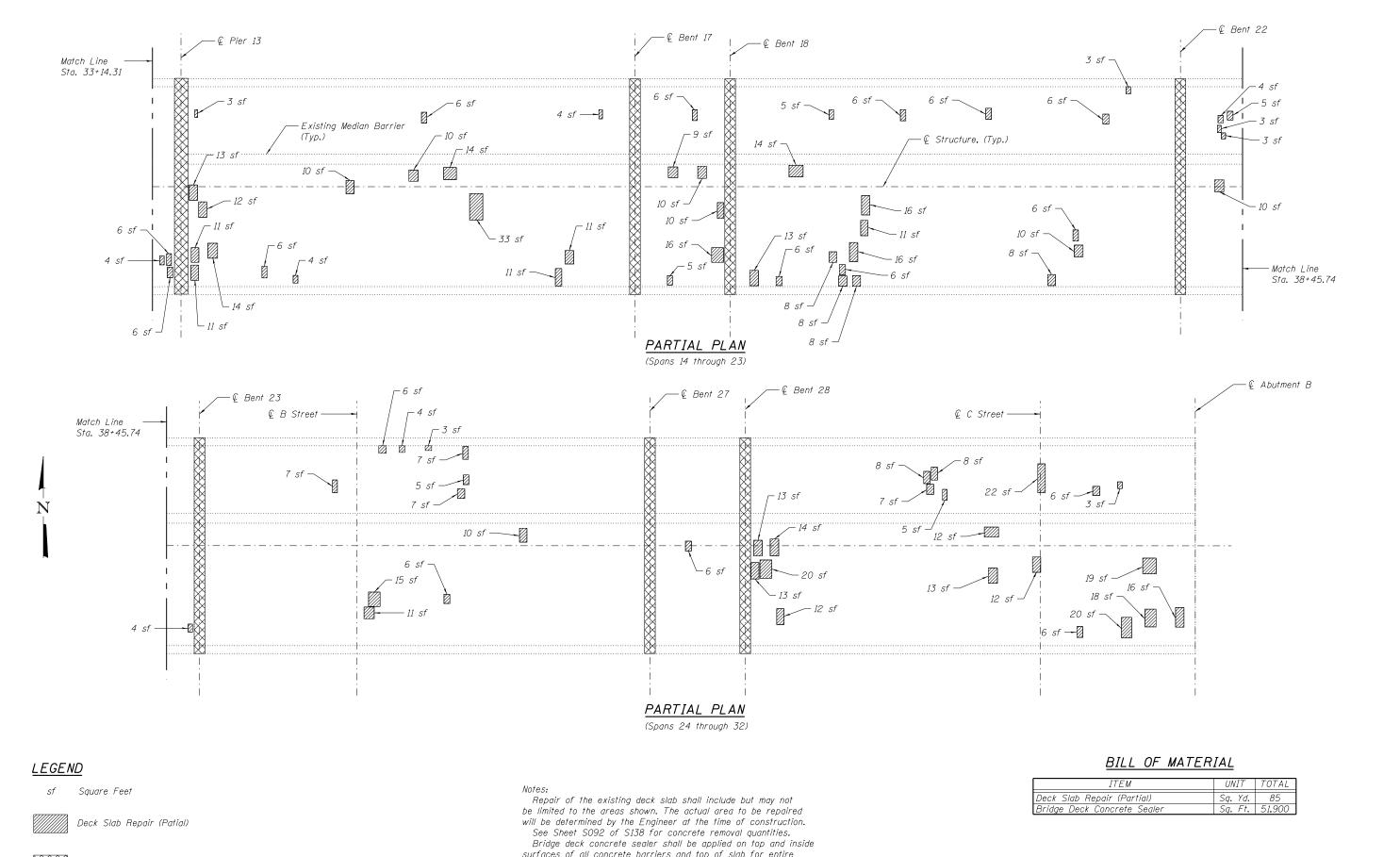


LIN ENGINEERING,LTD. Consulting Engineers springfield, Illinois USER NAME = DESIGNED - JJA REVISED - PLOT SCALE = DRAWN - AJF REVISED - DEPARTMENT OF TRANSPORTATION STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION STATE OF ILLINOIS
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38 SHEETS

ILLINOIS FED. AID PROJECT







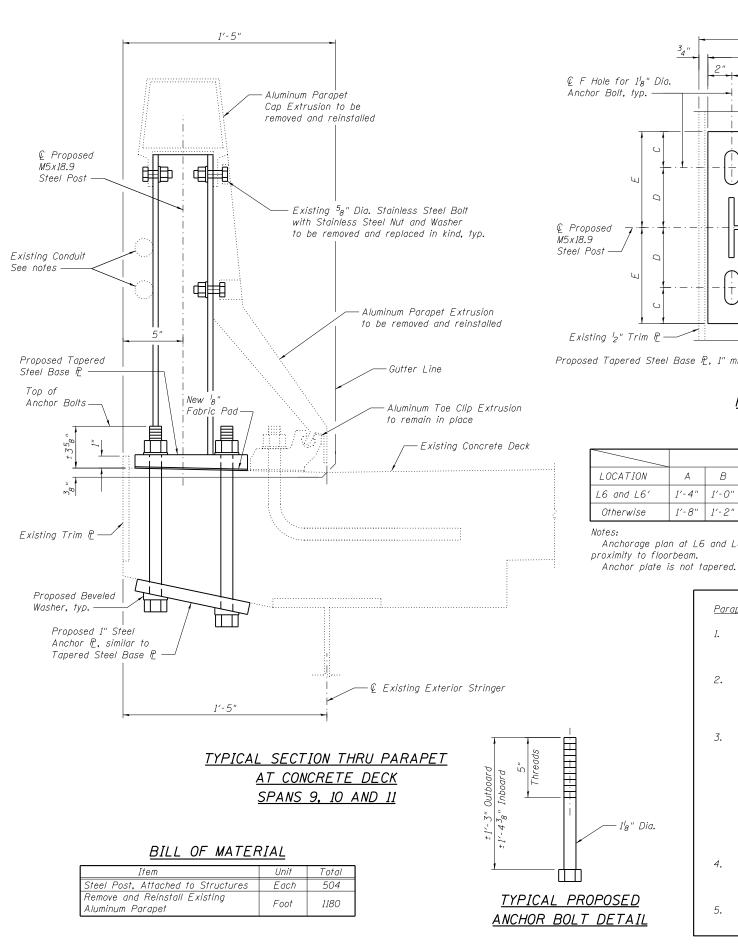
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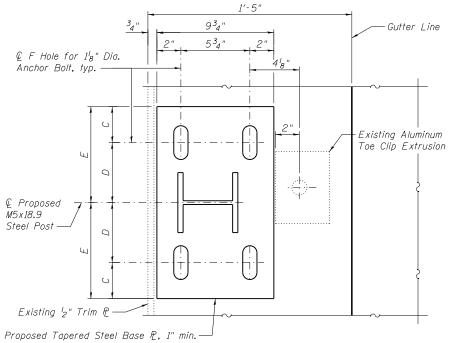
Concrete Removal

surfaces of all concrete barriers and top of slab for entire bridge including grid deck floor system.

	USER NAME =	DESIGNED - JJA	A REVISED -		CONCRETE DECK REPAIRS	F.A.P.	SECTION	COUNTY TOTAL SHEET
LIN ENGINEERING, LTD	FILE NAME =	CHECKED - TB	P REVISED -	STATE OF ILLINOIS		799	1BR, DRS-2	ST. CLAIR 156 048
Consulting Engineers Springfield, Illinois	PLOT SCALE =	DRAWN – AJF	F REVISED -	DEPARTMENT OF TRANSPORTATION	S.N. 082–6001 MLK BRIDGE OVER MISSISSIPPI RIVER			CONTRACT NO. 76B03
Springheid, minois	PLOT DATE = 05	/02/2014 CHECKED - VP	T REVISED -		SHEET NO. SO30 OF S138 SHEETS		ILLINOIS FED. A	ID PROJECT

(Sheet 3 of 3)





PARAPET ANCHORAGE PLAN

		DIMENSIONS						
LOCATION	А	В	С	D	Ε	F (Base PC)	F (Anchor P)	
L6 and L6′	1'-4"	1'-0"	2"	6"	8"	1 ³ 16 " Dia .	1 ⁷ 16″ Dia.	
Otherwise	1'-8"	1'-2"	3"	7"	10 "	1 ³ 16 "x2 ¹³ 16" Slotted	1 ⁷ 16 " Dia.	

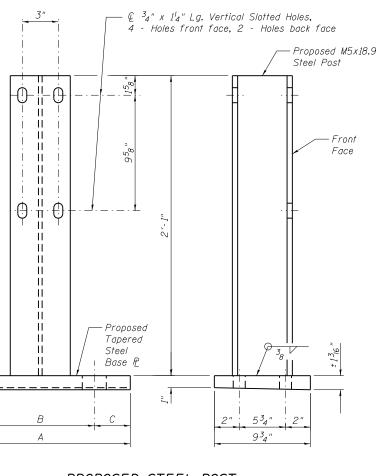
Anchorage plan at L6 and L6' differs from typical due to anchorage

Parapet Post Replacement Procedure at Concrete Deck

- 1. Remove fasteners from existing aluminum parapet extrusion and slide extrusion either left or right to facilitate existing post removal.
- 2. Cut existing 1" anchor bolts flush with the existing concrete surface, grind smooth, and seal with epoxy. Cost is included with Remove and Reinstall Existing Aluminum Parapet.
- 3. Layout posts with the following constraints: a. maximum post spacing = 6'-0"
 - four posts spaced no more than 2'-11" from b. centerline shall be placed at each end panel С.
 - posts shall be placed so as to not interfere with floorbeams
 - posts shall be placed with the existing aluminum d. extrusion attachments in mind and so that the need for additional holes being drilled in the aluminum extrusion is kept to a minimum.
- Install new parapet post with new anchor bolts. Drill new holes in aluminum extrusion using new post as a template when required.
- Re-install existing aluminum parapet extrusion and fasten to new post with new fasteners.

MODJESKI ••• MASTERS
Experience great bridges.

	USER NAME =	DESIGNED - ZJB	REVISED		MAIN SPANS ALUMINUM PARAPET DETAILS – CONCRETE DECK 1	F.A.P. RTE.	SECTION	COUNTY TOTAL SHEET SHEETS NO.
SKI-MASTERS	PLOT SCALE =	CHECKED - YSS DRAWN - PRC	REVISED REVISED	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	S.N. 082–6001 MLK BRIDGE OVER MISSISSIPPI RIVER	799	1BR, DRS-2	ST. CLAIR 156 49 CONTRACT NO. 76B03
Experience great bridges.	PLOT DATE = 05/02/2014	CHECKED - ZJB	REVISED	DEFAILINE AT OF MARCH ON ATION	SHEET NO. S31 OF S138 SHEETS		ILLINOIS FED.	AID PROJECT



PROPOSED STEEL POST

Notes:

The contractor shall exercise extreme care during removal of existing parapet.

See existing parapet erection plans for additional details. Field drill additional holes in the aluminum parapet extrusion

as required. An estimated 848 additional holes are required. Abandoned holes in aluminum extrusion shall be filled with a ${}^{5}_{8}$ " dia. Stainless Steel bolt. An estimated 384 bolts are required.

All steel shapes and plates shall conform to the requirements of AASHTO M 270 Gr. 36.

Post and parapet shall be in accordance with Section 509 of the Standard Specifications, except as noted and shall be paid for at the contract unit price Each for Steel Post, Attached to Structures.

All stainless steel hardware for railings shall conform to Section 1006.31 of the Standard Specifications.

All post and anchor devices shall be galvanized after shop fabrication in accordance with AASHTO M 111.

Anchor bolt material shall conform to the requirements of ASTM F 1554 Gr. 36 and Section 1006.09 of the Standard Specifications. Structural plate washers or a continuous bar with standard holes,

not less than 0.3125 in. in thickness shall be required to completely cover long slotted holes in the anchorage, Hardened washers shall be placed over the outer surface of the plate washer or bar.

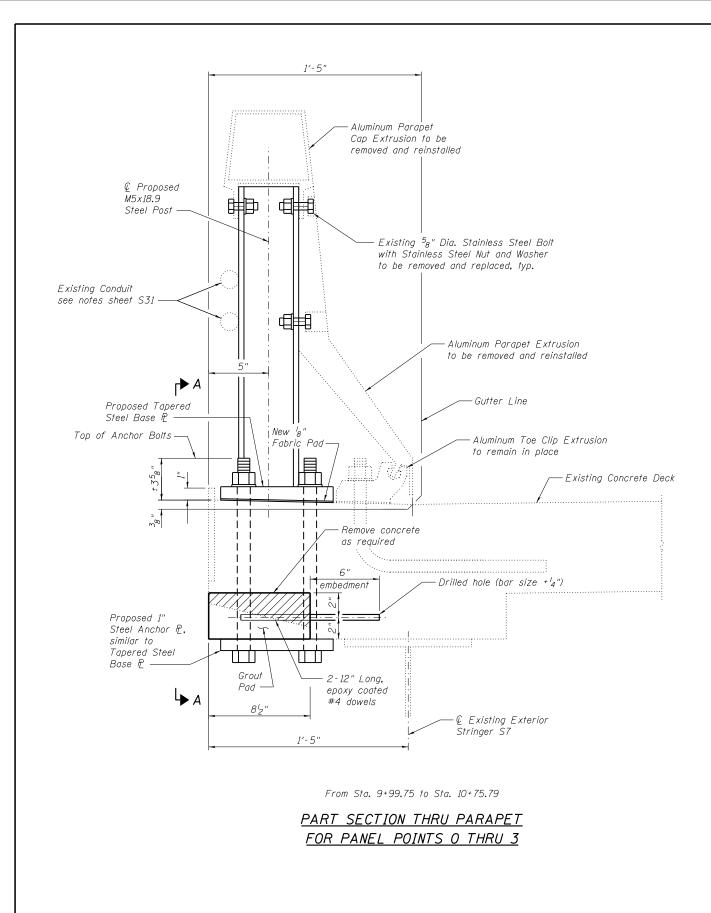
Nut and washer material for anchor bolts shall conform to Section 1006.09 of the Standard Specifications, except as noted.

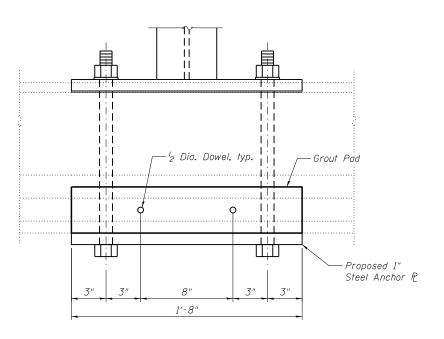
Anchor bolts, washers and nuts shall be galvanized in accordance with AASHTO M232, Class C.

Existing conduit shall be temporarily supported while posts are being replaced and reattached when posts are in place.

The cost of posts, base plates, anchor plates, bolts, nuts, washers, fabric pads, and anchor bolts along with complete installation shall be included in the cost of Steel Post, Attached to Structure.

The cost of drilling new holes in the aluminum parapet extrusion and the cost to temporarily support and reattach existing conduit shall be included in the cost of Remove and Reinstall Existing Aluminum Parapet.







	USER NAME =	DESIGNED - ZJB	REVISED		MAIN SPANS ALUMINUM PARAPET DETAILS – CONCRETE DECK–2	F.A.P. RTE.	SECTION	COUNTY SH	OTAL SHEET HEETS NO.
MODJESKI w MASTERS Experience great bridges.	PLOT SCALE =	CHECKED - YSS DRAWN - PRC	REVISED STATE OF ILLINOIS REVISED DEPARTMENT OF TRANSPORTATION		S.N. 082–6001 MLK BRIDGE OVER MISSISSIPPI RIVER	799	1BR, DRS-2	ST. CLAIR	156 50 NO. 76BO3
	PLOT DATE = 05/02/2014	CHECKED - ZJB	REVISED		SHEET NO. S32 OF S138 SHEETS		ILLINOIS FED. A	ID PROJECT	10. 16803

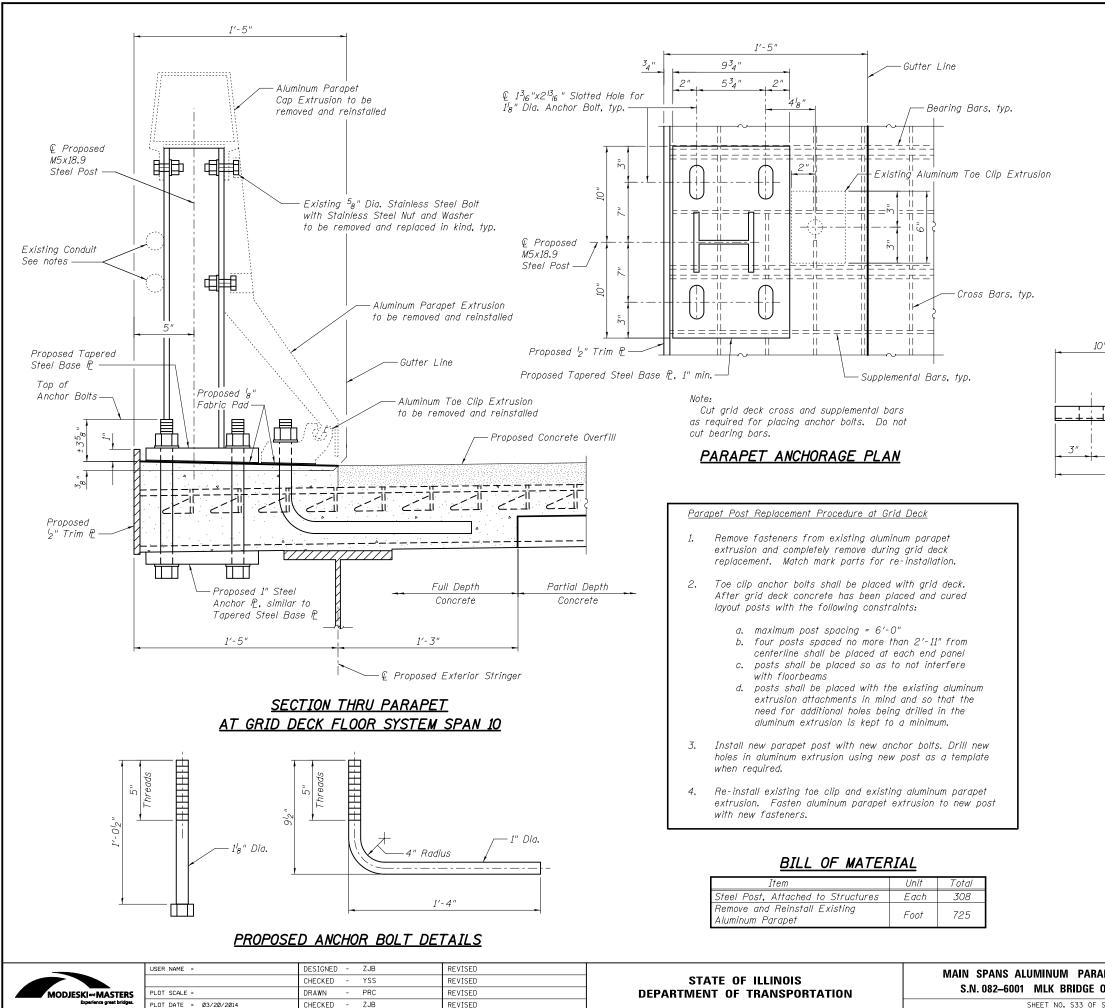
Notes:

See existing parapet erection plans and sheet S31 for additional details.

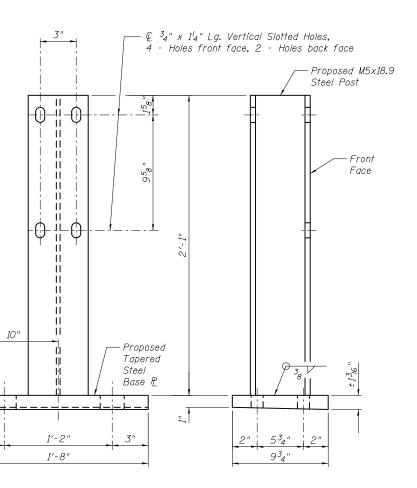
Drilled and set dowel bars shall be installed according to Article 584 of the Standard Specifications. Non shrink grout according to Article 1024 of the

Non shrink grout according to Article 1024 of the Standard Specifications shall be used for the grout pad. Dowel bars shall be threaded and the material shall conform to the requirements of ASTM A307.

The cost of grout pad, dowel bars, chemical adhesive and installation shall be included in the cost of Steel Post, Attached to Structure.



SHEET NO. S33 OF



PROPOSED STEEL POST

Notes:

The contractor shall exercise extreme care during removal of existing parapet.

See existing parapet erection plans for additional details. Field drill additional holes in the aluminum parapet extrusion

as required. An estimated 388 additional holes are required. Abandoned holes in aluminum extrusion shall be filled with a ${}^{5}_{8}$ " dia. Stainless Steel bolt. An estimated 102 bolts are required.

All steel shapes and plates shall conform to the requirements of AASHTO M 270 Gr. 36.

Post and parapet shall be in accordance with Section 509 of the Standard Specifications, except as noted and shall be paid for at the contract unit price Each for Steel Post, Attached to Structures.

All stainless steel hardware for railings shall conform to Section 1006.31 of the Standard Specifications.

All post and anchor devices shall be galvanized after shop fabrication in accordance with AASHTO M 111.

Anchor bolt material shall conform to the requirements of ASTM F 1554 Gr. 36 and Section 1006.09 of the Standard Specifications.

Structural plate washers or a continuous bar with Standard holes, not less than 0.3125 in. in thickness, shall be required to completely cover long slotted holes. Hardened washers shall be placed over the outer surface of the plate washer or bar.

Nut and washer material for anchor bolts shall conform to Section 1006.09 of the Standard Specifications, except as noted.

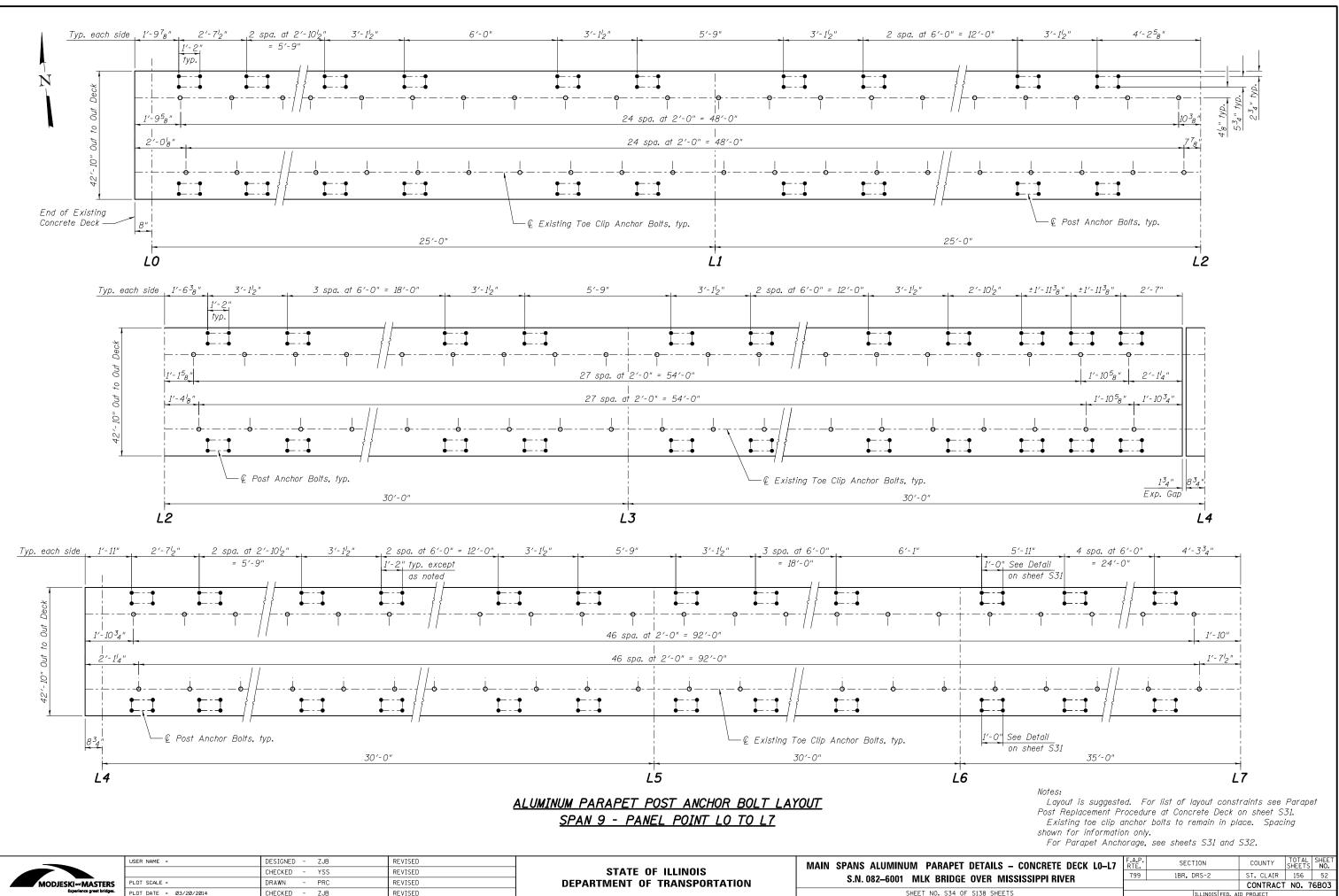
Anchor bolts, washers and nuts shall be galvanized in accordance with AASHTO M232, Class C.

Existing conduit shall be temporarily supported while posts are being replaced and reattached when posts are in place.

The cost of posts, base plates, anchor plates, bolts, nuts, washers, fabric pads, and anchor bolts along with complete installation shall be included in the cost of Steel Post, Attached to Structure.

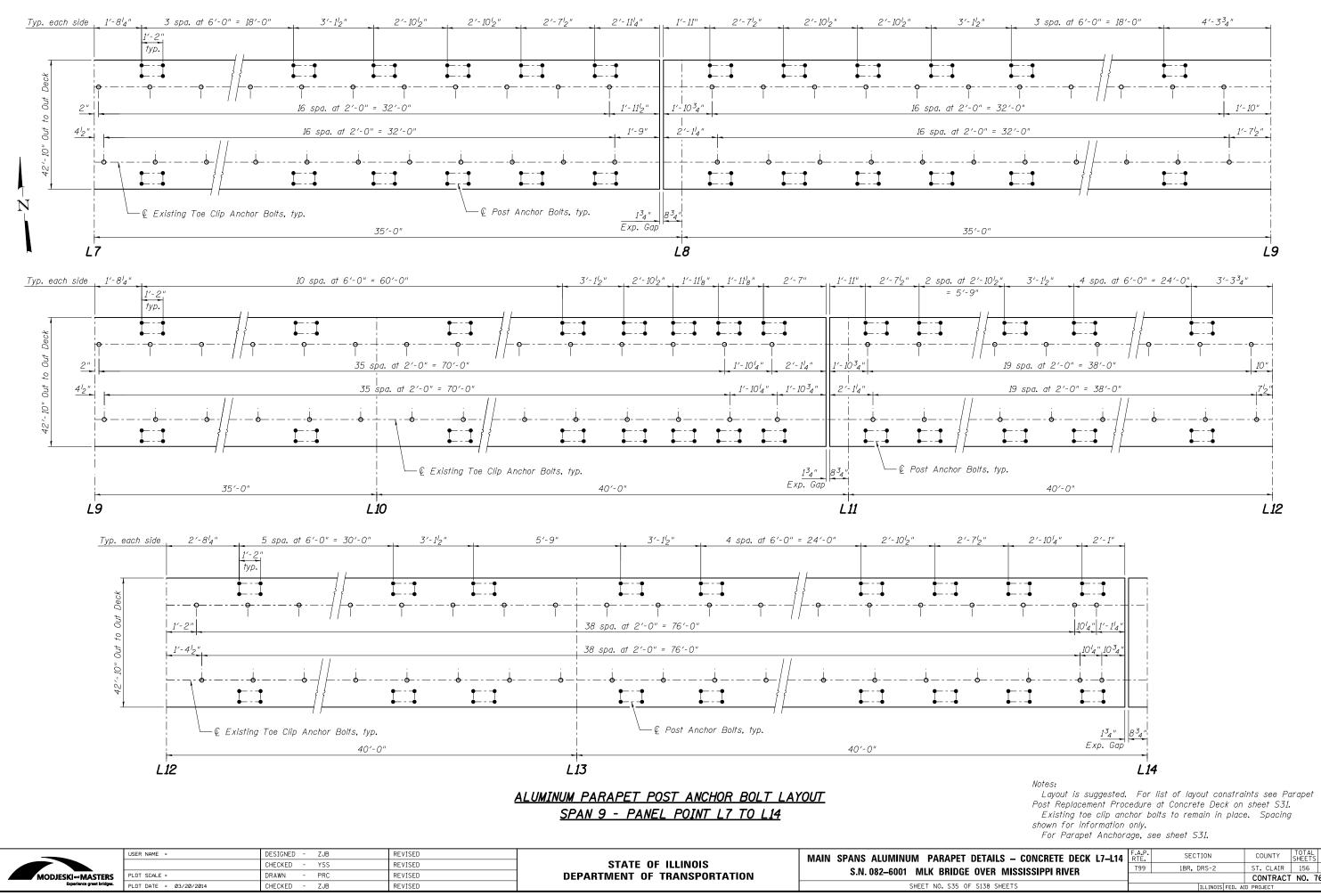
The cost of drilling new holes in the aluminum parapet extrusion and the cost to temporarily support and reattach existing conduit shall be included in the cost of Remove and Reinstall Existing Aluminum Parapet.

APET DETAILS – GRID DECK		SECTION	COUNTY	TOTAL SHEETS	SHEET NO.		
OVER MISSISSIPPI RIVER		1BR, DRS-2	ST. CLAIR	156	51		
			CONTRACT	NO. 7	76B03		
S138 SHEETS		ILLINOIS FED. AI	D PROJECT				

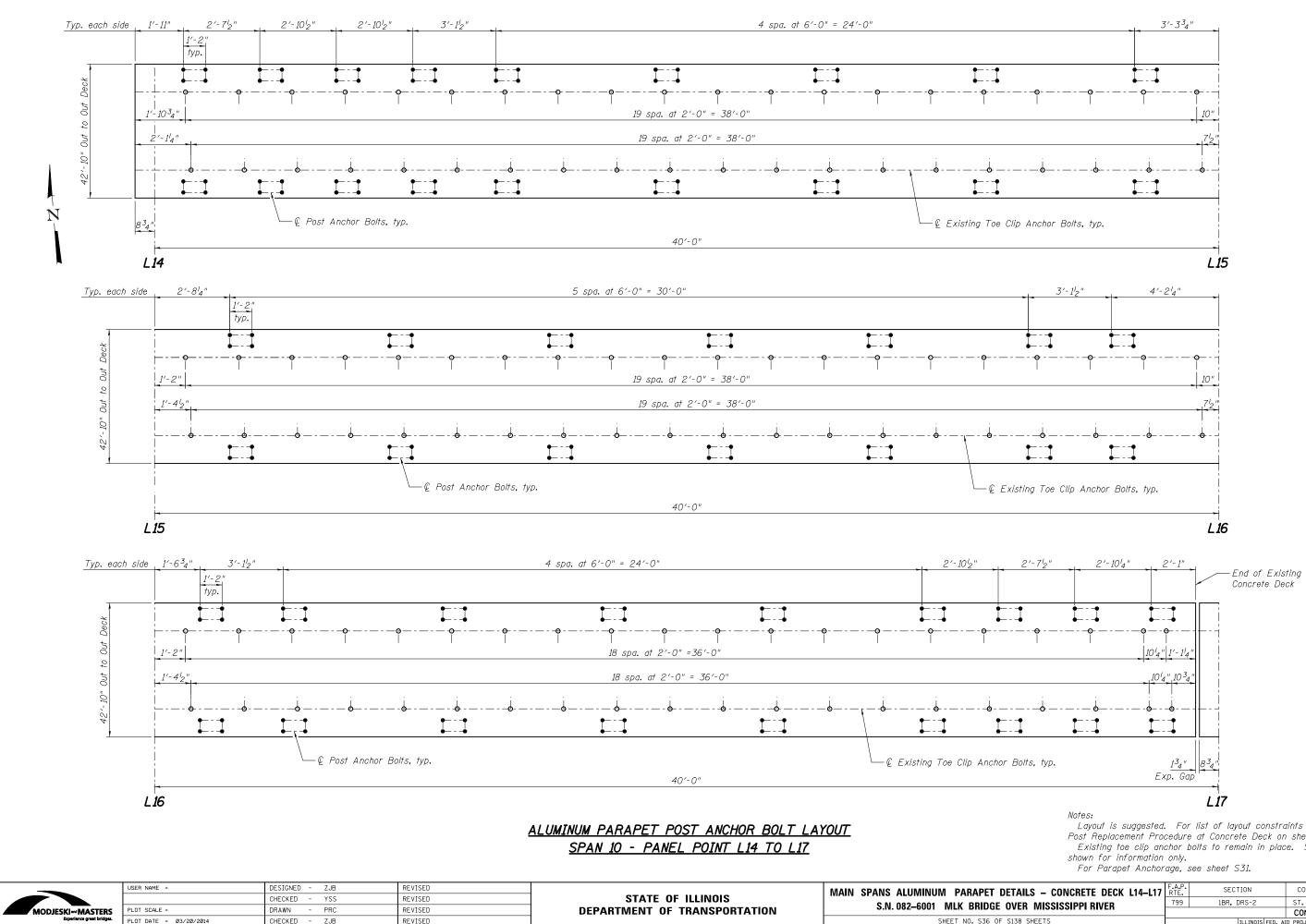


For	Parapet	Anchorage,	see	sheets	S31	and	S32.

DETAILS – CONCRETE DECK L0–L7	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
OVER MISSISSIPPI RIVER		1BR, DRS-2	ST. CLAIR	156	52	
			CONTRACT	CT NO. 76B03		
S138 SHEETS	ILLINOIS FED. AID PROJECT					

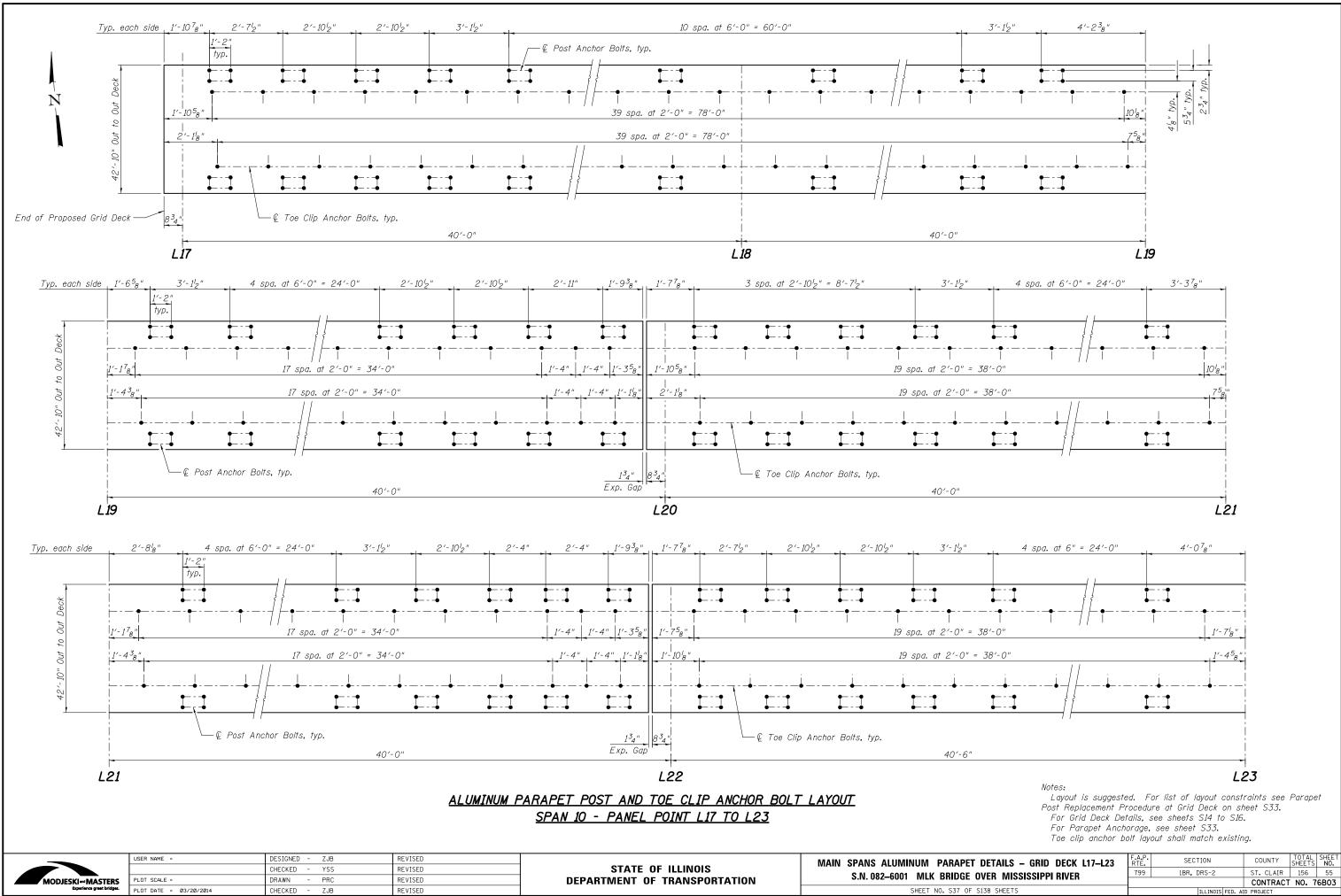


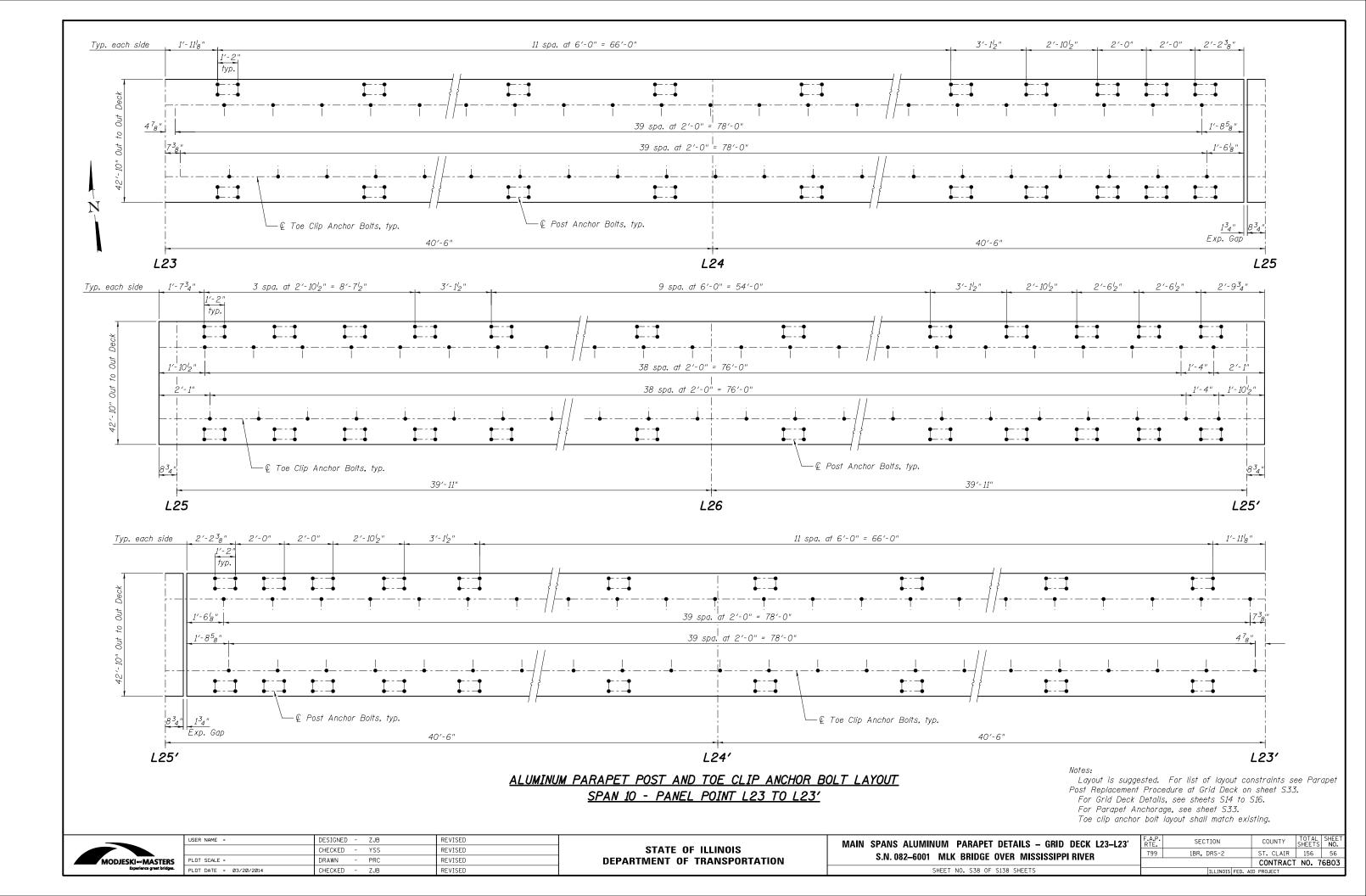
CONTRACT NO. 76BO	DETAILS – CONCRETE DECK L7–L14	F.A.P. RTE.	SEC	TION		CC	DUNTY	TOTAL SHEETS	SHEET NO.
CONTRACT NO. 76BO	OVER MISSISSIPPI RIVER		1BR, DRS-2			ST.	CLAIR	156	53
						CO	NTRACT	NO. 7	6B03
S138 SHEETS ILLINOIS FED. AID PROJECT	S138 SHEETS			ILLINOIS	FED. /	AID PRO	JECT		

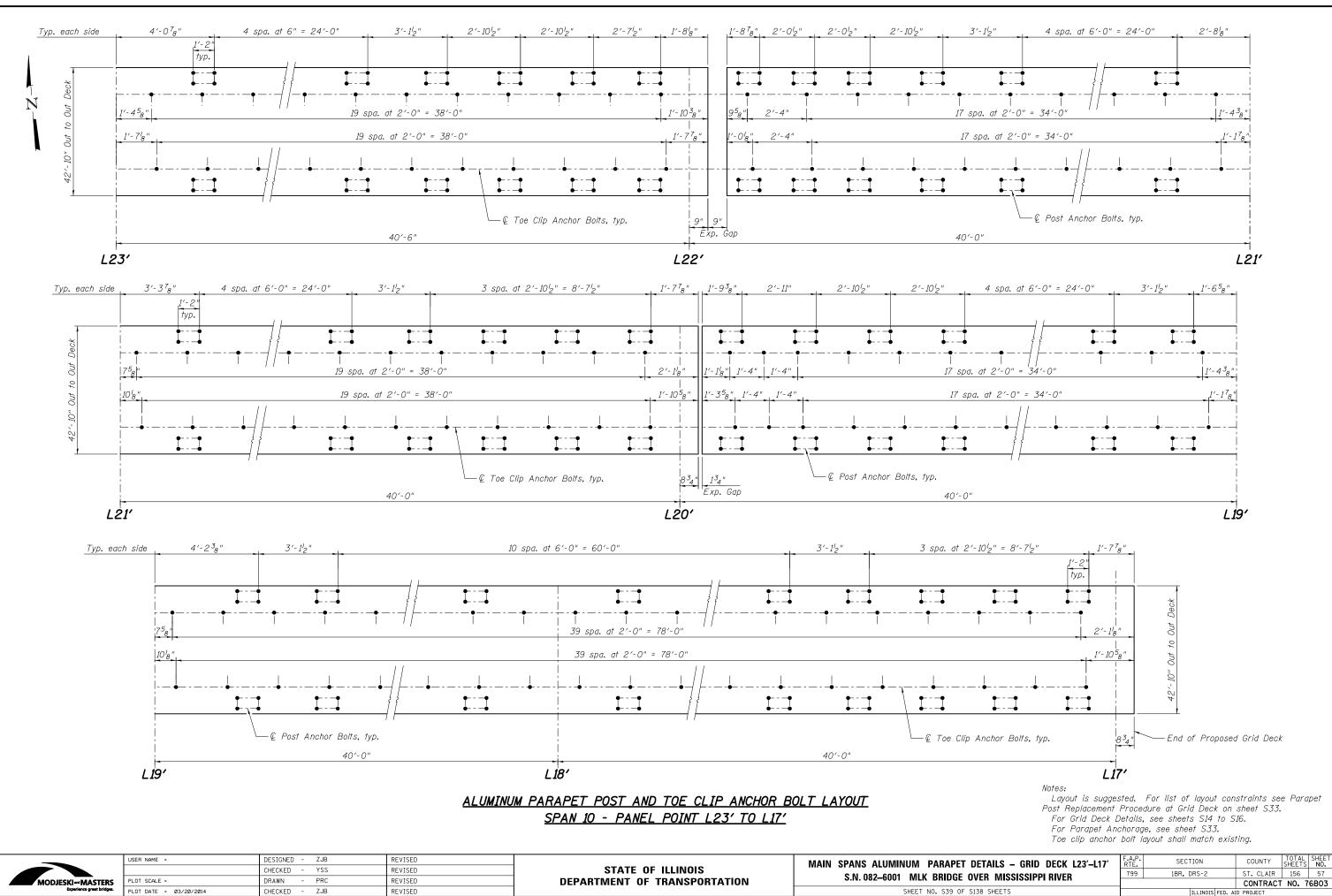


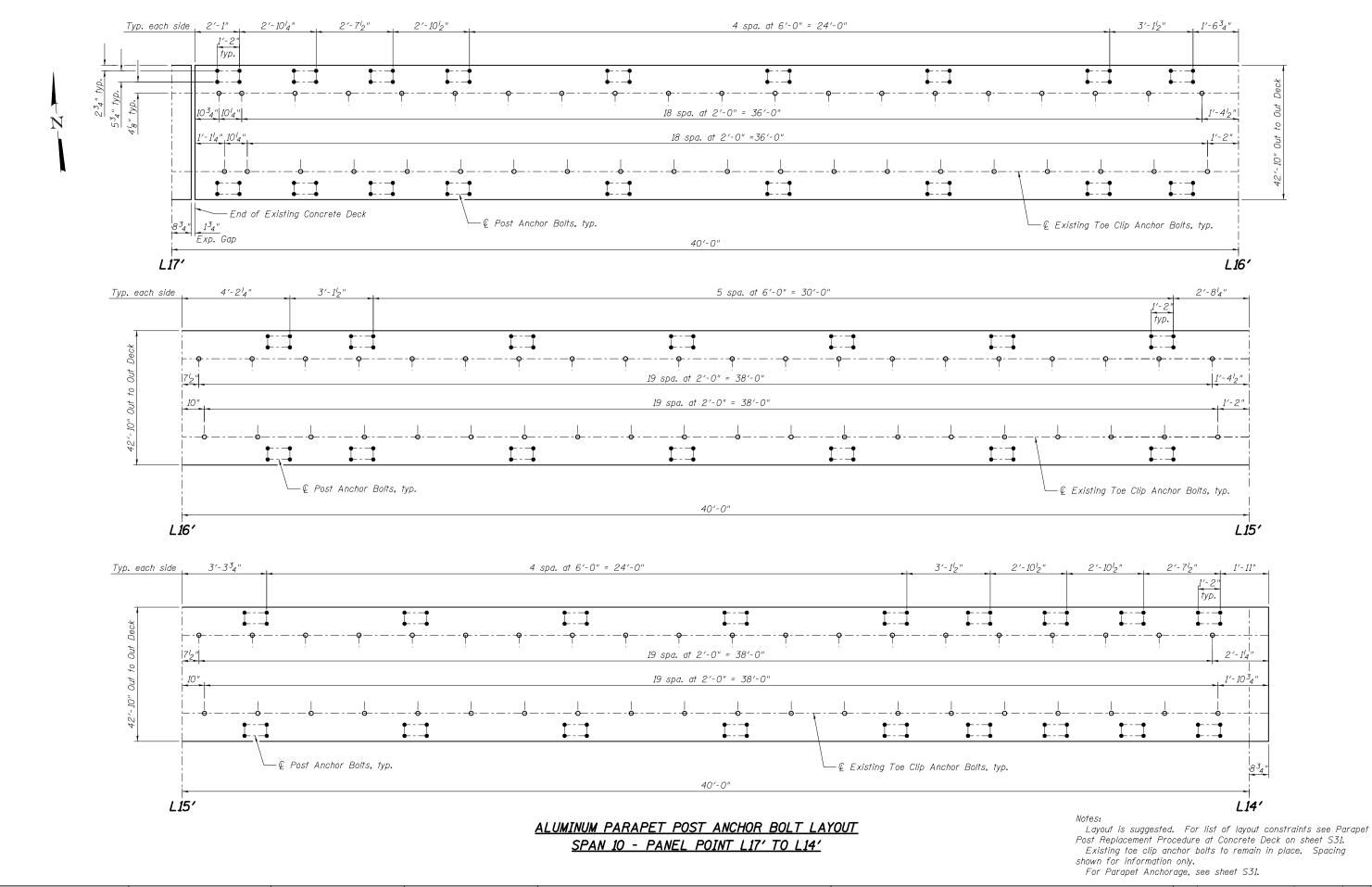
Layout is suggested. For list of layout constraints see Parapet Post Replacement Procedure at Concrete Deck on sheet S31. Existing toe clip anchor bolts to remain in place. Spacing

TAILS – CONCRETE DECK L14–L17	F.A.P. RTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VER MISSISSIPPI RIVER		1BR, DRS-2	ST. CLAIR	156	54
			CONTRACT	NO. 7	6B03
138 SHEETS		ILLINOIS FED.	AID PROJECT		





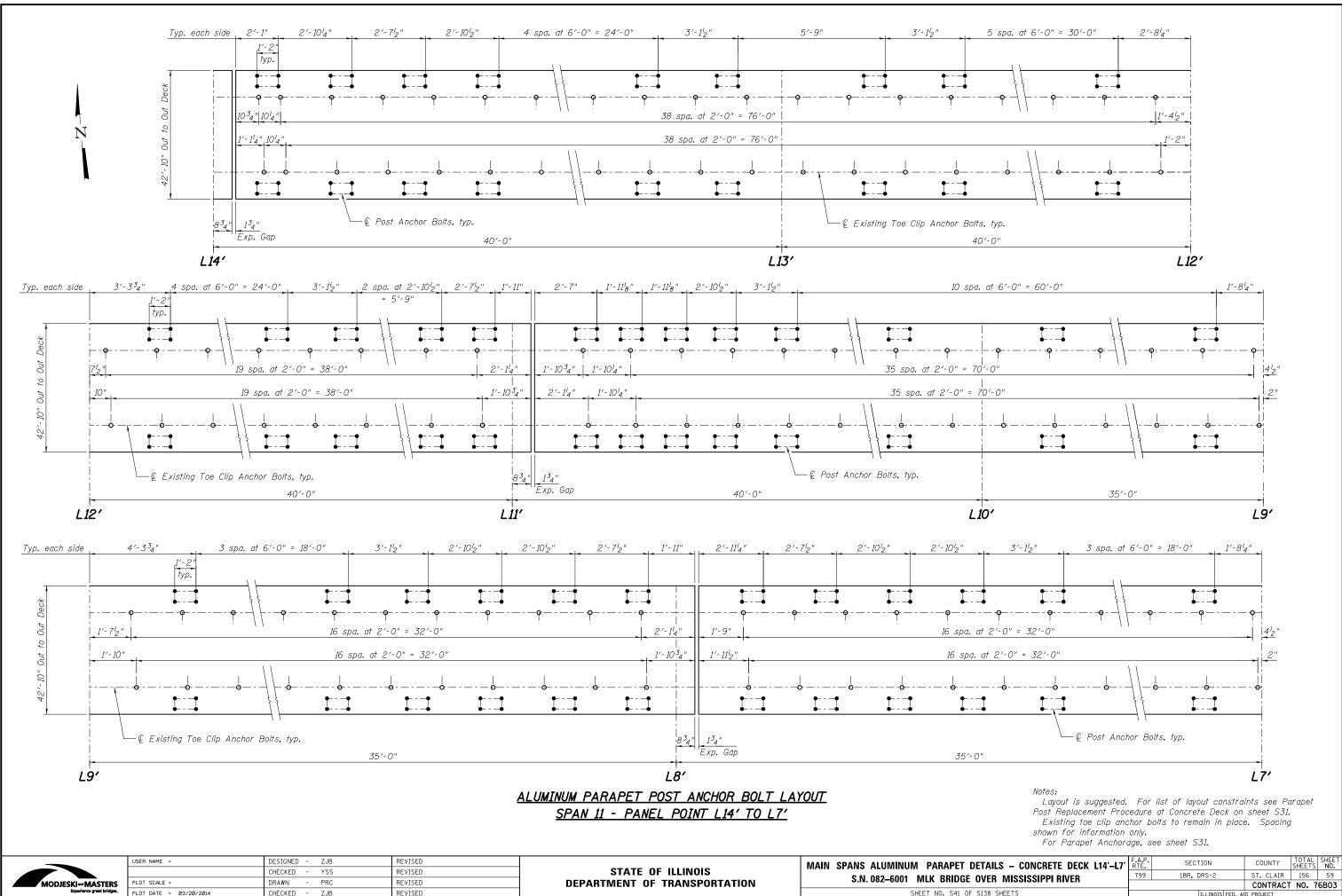




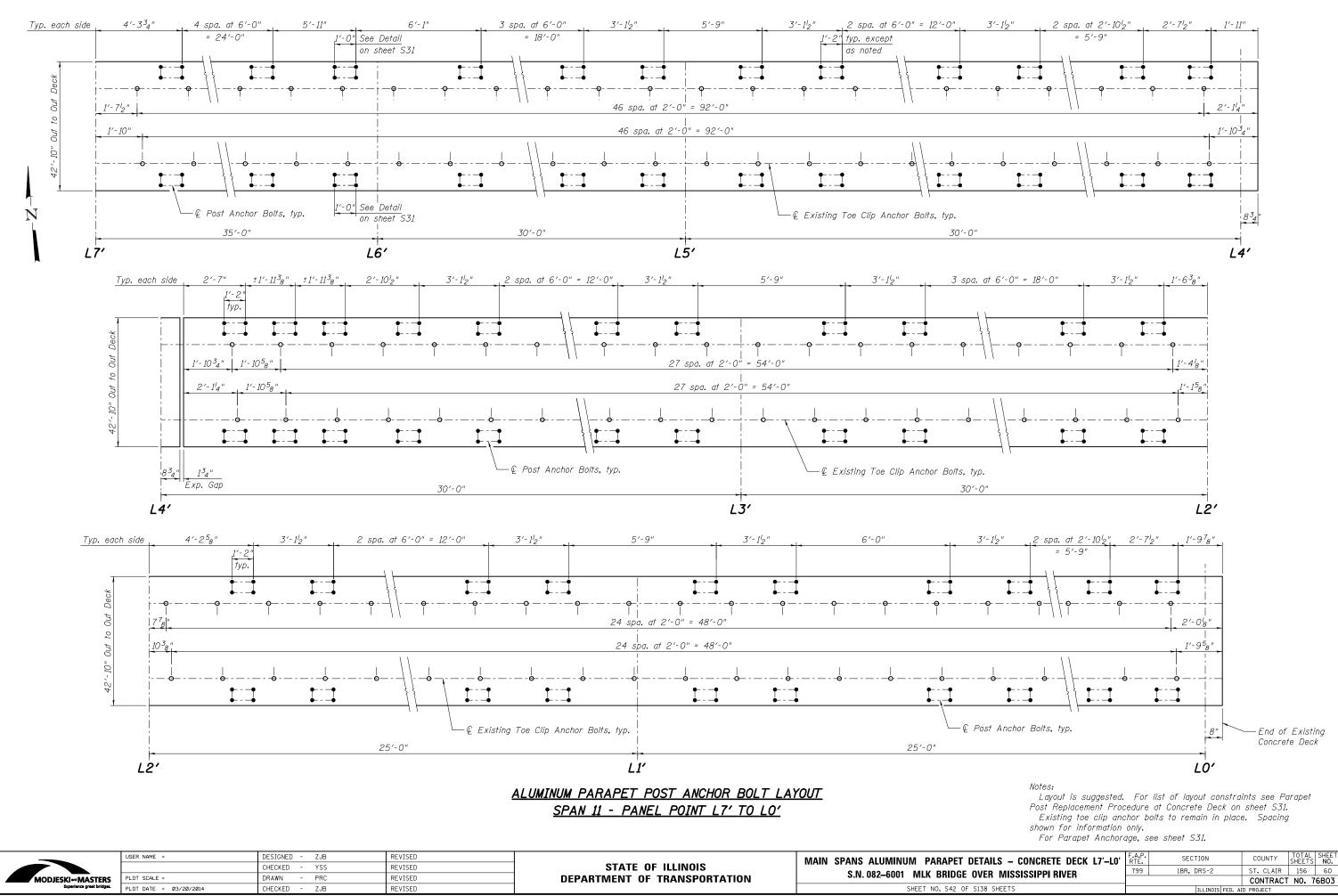
USER NAME = DESIGNED - ZJB REVISED MAIN SPANS ALUMINUM PARAPET DET STATE OF ILLINOIS CHECKED - YSS REVISED S.N. 082-6001 MLK BRIDGE 0 MODJESKI and MASTERS PLOT SCALE = DRAWN PRC REVISED **DEPARTMENT OF TRANSPORTATION** PLOT DATE = Ø3/20/2014 CHECKED - ZJB REVISED

TAILS – CONCRETE DECK L17'–L14'	F.A.P. RTE.	SECTION	COUNTY	SHEETS	SHEET NO.
OVER MISSISSIPPI RIVER	799	1BR, DRS-2	ST. CLAIR	156	58
			CONTRACT	NO. 7	6B03
S138 SHEETS	ILLINOIS FED. AID PROJECT				

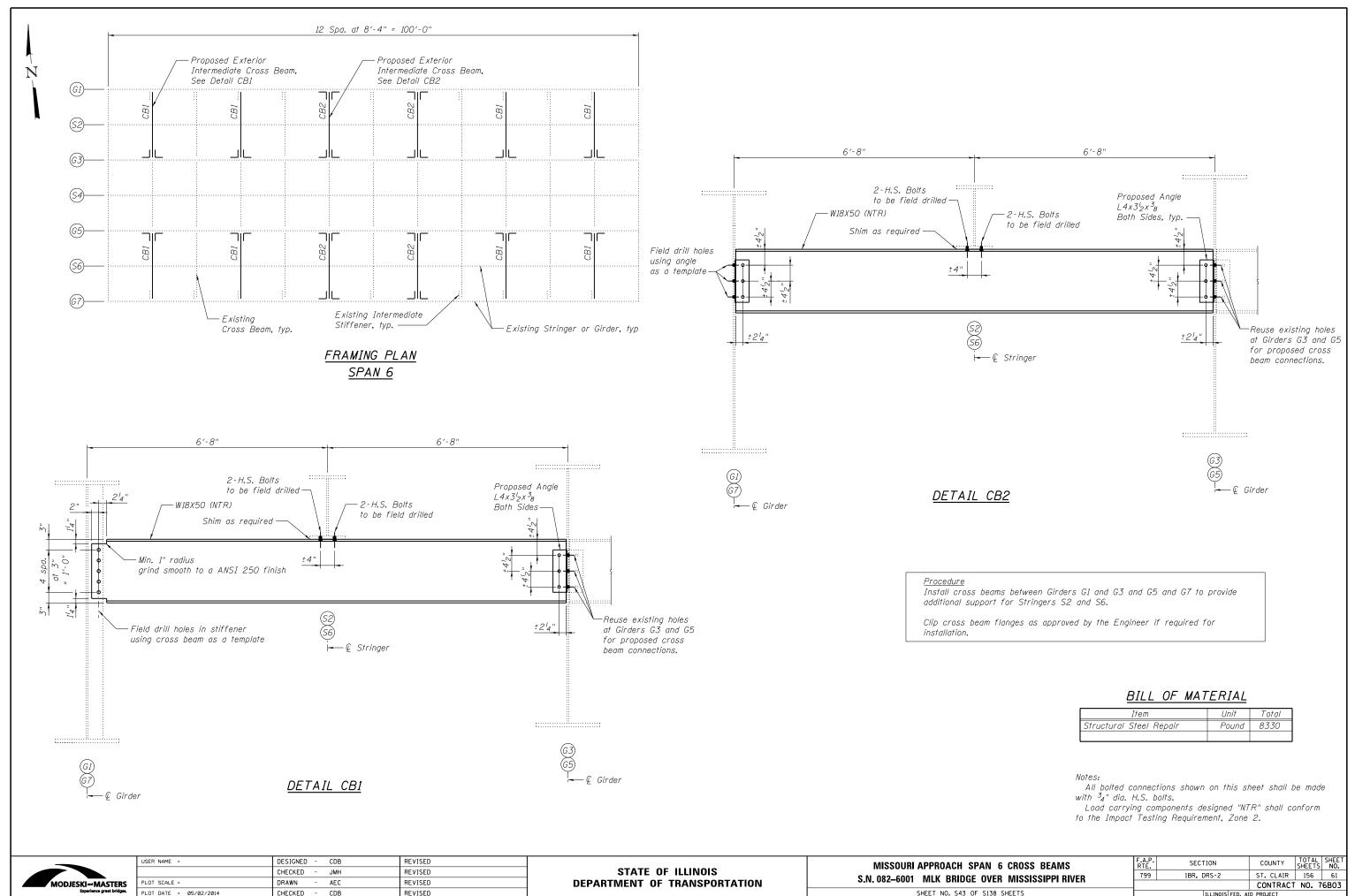
SHEET NO. S40 OF S



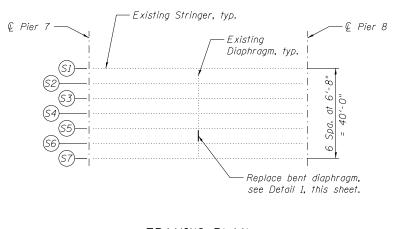
ETAILS – CONCRETE DECK L14'–L7'	F.A.P. RTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
OVER MISSISSIPPI RIVER	799	1BR, DRS-2	ST. CLAIR	156	59
			CONTRACT	NO. 7	6B03
S138 SHEETS	ILLINOIS FED. AID PROJECT				



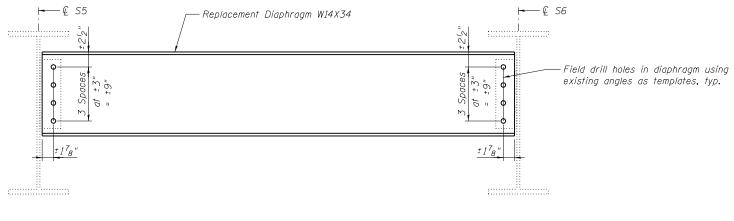
ETAILS – CONCRETE DECK L7'–L0'	F.A.P.	SECTION	COUNTY	TOTAL	SHEET NO.
DVER MISSISSIPPI RIVER		1BR, DRS-2	ST. CLAIR	156	60
			CONTRACT	NO. 7	6B03
S138 SHEETS	ILLINOIS FED. AID PROJECT				



ILLINOIS FED. AID PROJECT



FRAMING PLAN SPAN 8



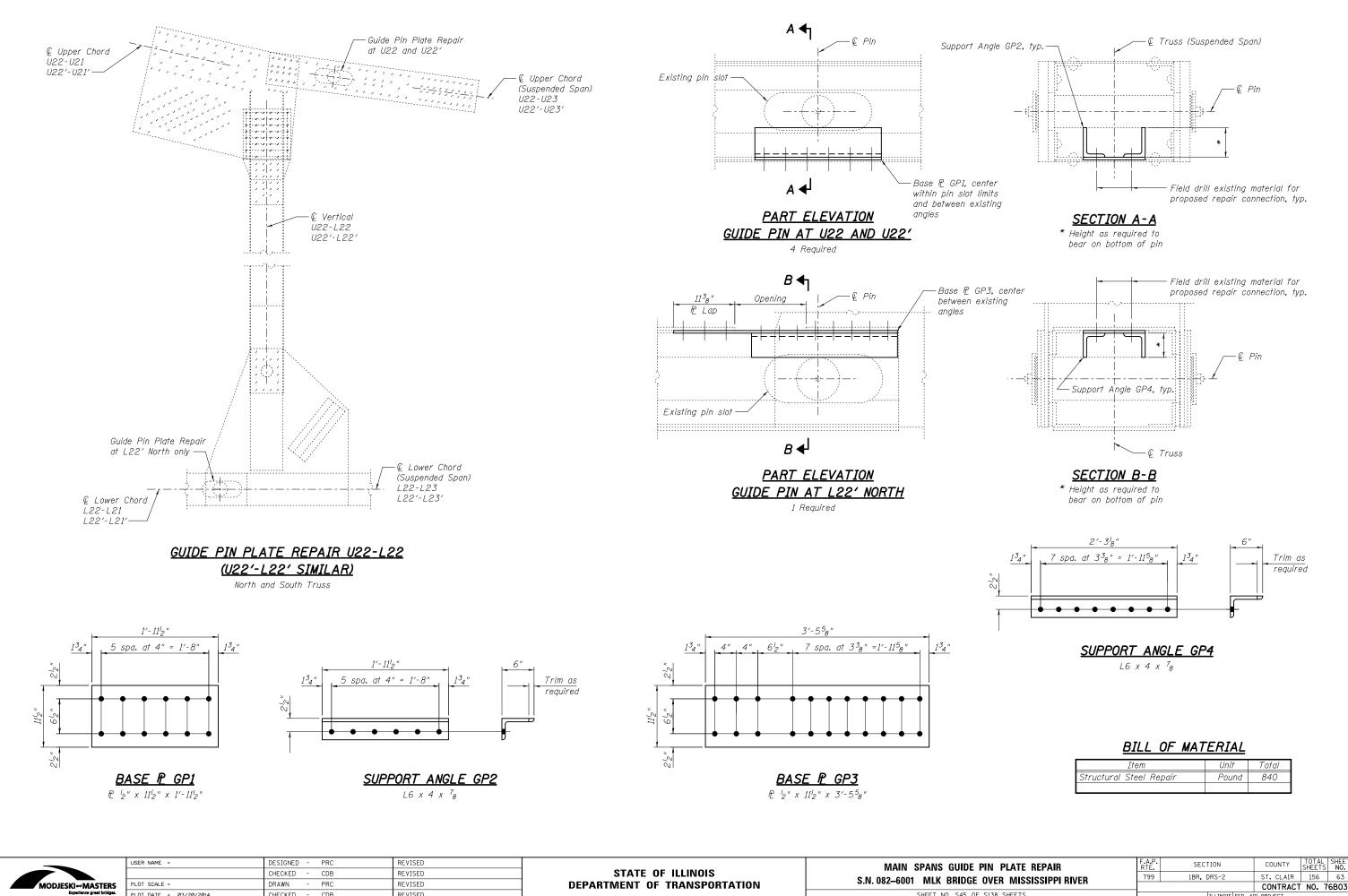


	USER NAME =	DESIGNED - CDB	REVISED		MISSOURI APPROACH SPAN 8 DIAPHRAGM REPLACEMENT	F.A.P. RTE.	SECTION	COUNTY TOT	AL SHEET ETS NO.
MODJESKI-MASTERS	PLOT SCALE =	CHECKED - JMH DRAWN - AEC	REVISED REVISED	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	S.N. 082–6001 MLK BRIDGE OVER MISSISSIPPI RIVER	799	1BR, DRS-2	ST. CLAIR 15	66 62 676B03
Experience great bridges.	PLOT DATE = 05/02/2014	CHECKED - CDB	REVISED		SHEET NO. S44 OF S138 SHEETS		ILLINOIS FED.	AID PROJECT	. 18005

BILL OF MATERIAL

Item	Unit	Total
Structural Steel Repair	Pound	230

Notes: All bolted connections shown on this sheet shall be made with ³4" dia. H.S. bolts. Clip diaphragm flanges as approved by the Engineer if required for installation.

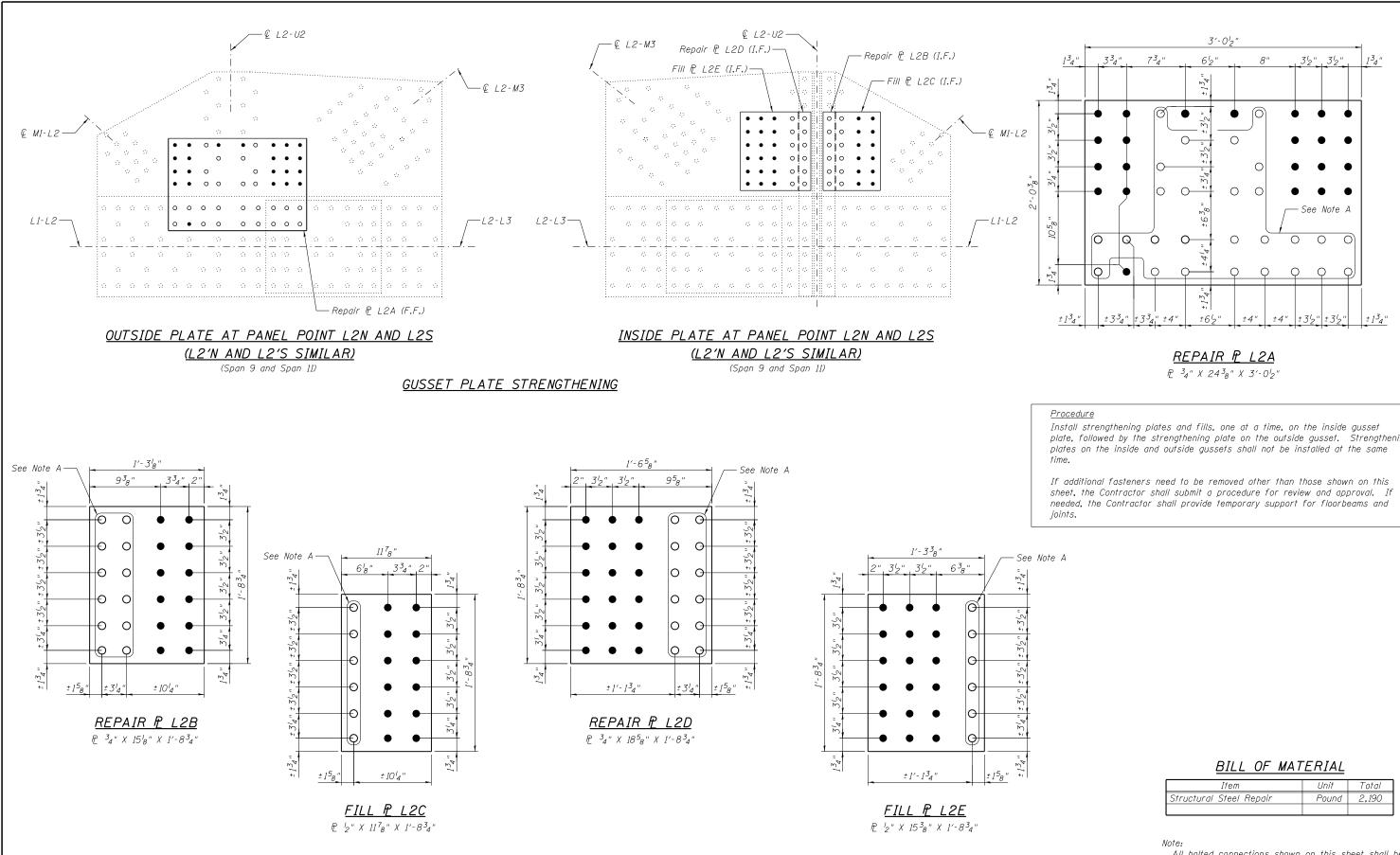


PLOT DATE = 03/20/2014

CHECKED - CDB

REVISED

SHEET NO. S45 OF S138 SHEETS



Note A:

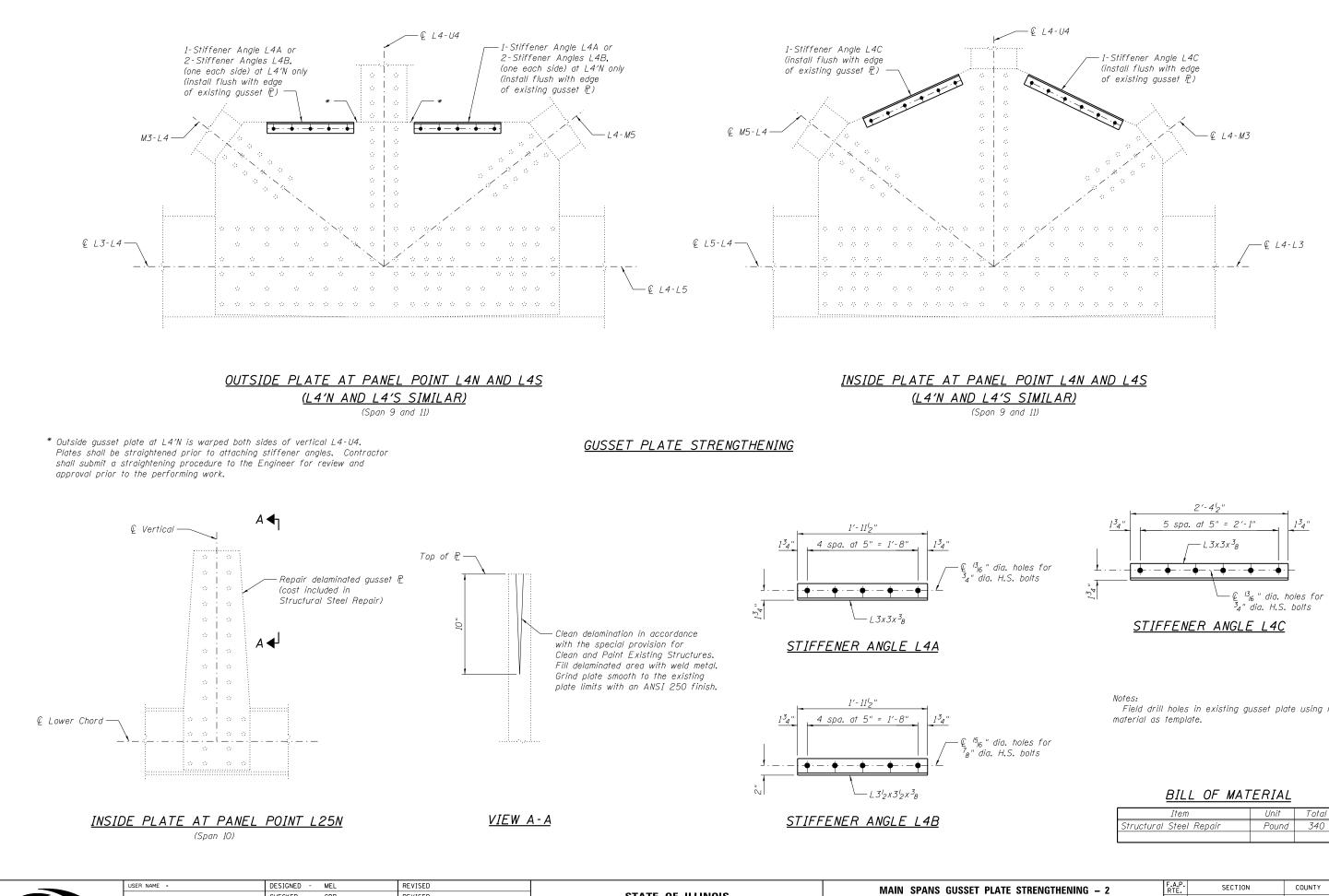
Field drill holes using existing holes as template. Remainder of holes may be shop or field drilled.

	USER NAME =	DESIGNED - MEL	REVISED		MAIN SPAN GUSSET PLATE STRENGTHENING – 1	F.A.P. RTE	SECTION	COUNTY TOTAL SHEET SHEETS NO.
		CHECKED - CDB	REVISED	STATE OF ILLINOIS	S.N. 082–6001 MLK BRIDGE OVER MISSISSIPPI RIVER	799	1BR, DRS-2	ST. CLAIR 156 64
MODJESKI	MASTERS PLOT SCALE =	DRAWN - AEC	REVISED	DEPARTMENT OF TRANSPORTATION	SHEET NO. S46 OF S138 SHEETS			CONTRACT NO. 76B03
	PLUI DATE - 05/02/2014	CHECKED - MEL	REVISED		SHEET NU. 346 UF 3136 SHEETS		ILLINOIS FEL	, AID PROJECT

plate, followed by the strengthening plate on the outside gusset. Strengthening

Item	Unit	Total
Structural Steel Repair	Pound	2,190

All bolted connections shown on this sheet shall be made with 1" dia. H.S. bolts unless otherwise noted. For front and inside faces of gusset plates, see truss cross section on sheet S8.

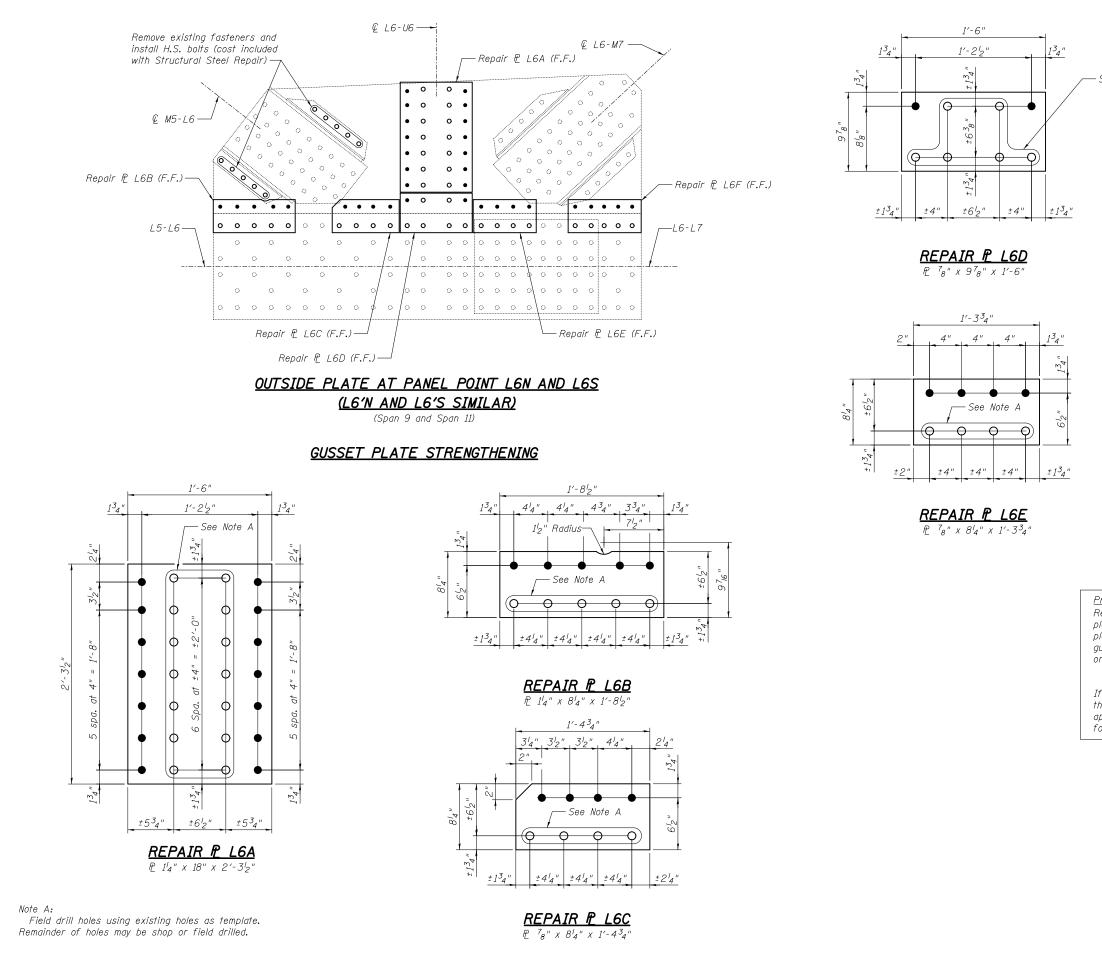


STATE OF ILLINOIS CHECKED - CDB REVISED S.N. 082-6001 MLK BRIDGE 0 MODJESKI PLOT SCALE = DRAWN PRC REVISED **DEPARTMENT OF TRANSPORTATION** SHEET NO. S47 OF S LOT DATE = 05/02/2014 CHECKED -MEL REVISED

Field drill holes in existing gusset plate using new

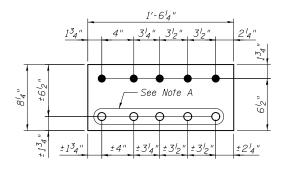
Item	Unit	Total
Structural Steel Repair	Pound	340

E STRENGTHENING – 2	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
OVER MISSISSIPPI RIVER	799	1BR, DRS-2	ST. CLAIR	156	65	
UVEN WIISSISSIFFI NIVEN	CONTRACT NO. 76B03					
S138 SHEETS	ILLINOIS FED. AID PROJECT					



USER NAME = DESIGNED - MEL/YSS REVISED MAIN SPAN GUSSET PLATE STATE OF ILLINOIS CHECKED - CDB REVISED S.N. 082-6001 MLK BRIDGE 0 MODJESKI PLOT SCALE = DRAWN AEC REVISED **DEPARTMENT OF TRANSPORTATION** PLOT DATE = 05/09/2014 CHECKED - MEL REVISED SHEET NO. S48 OF S

-See Note A



 $\frac{REPAIR P L6F}{P 1^{l_4''} \times 8^{l_4''} \times 1^{\prime} - 6^{l_4''}}$

<u>Procedure</u>

Remove the bottom lateral connection plate and angle; then install repair plates, angles and fills, as shown, one side at a time on the inside gusset plate. Install remaining repair plates and fills, one at a time, on the inside gusset plate, followed by the installation of the repair plates, one at a time, on the outside gusset plate.

If additional fasteners need to be removed other than those shown on this sheet, the Contractor shall submit a procedure for review and approval. If needed, the Contractor shall provide temporary support for floorbeams and joints.

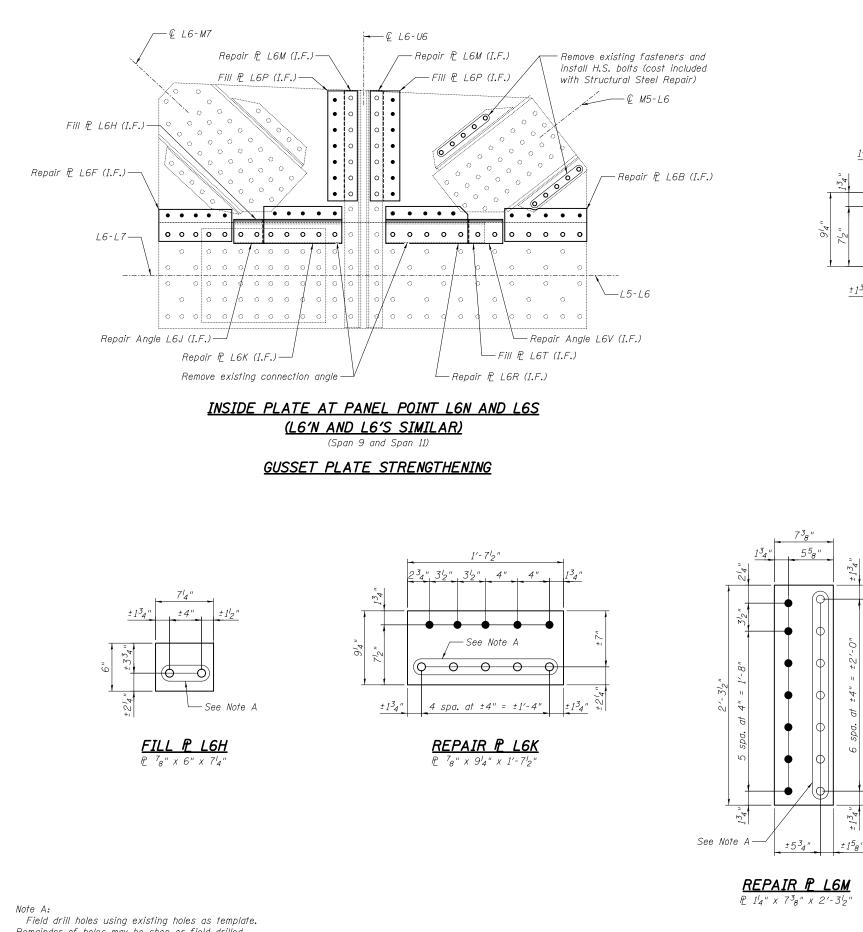
BILL OF MATERIAL

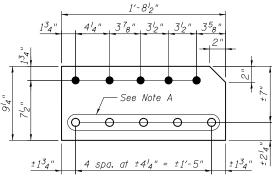
Item	Unit	Total
Structural Steel Repair	Pound	4,870

Notes:

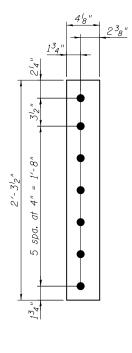
All bolted connections shown on this sheet shall be made with 1" dia. H.S. bolts unless otherwise noted. For L6 inside gusset P, see sheet S49. For front face of gusset P, see sheet S8.

E STRENGTHENING – 3	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
OVER MISSISSIPPI RIVER		1BR, DRS-2	ST. CLAIR	156	66	
UVEN IVII33I33IFFI NIVEN			CONTRACT	NO. 7	6B03	
S138 SHEETS	ILLINOIS FED. AID PROJECT					





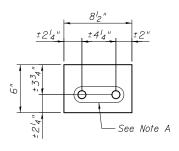




FILL PLEP PE 1/2" x 41/8" x 2'-31/2"

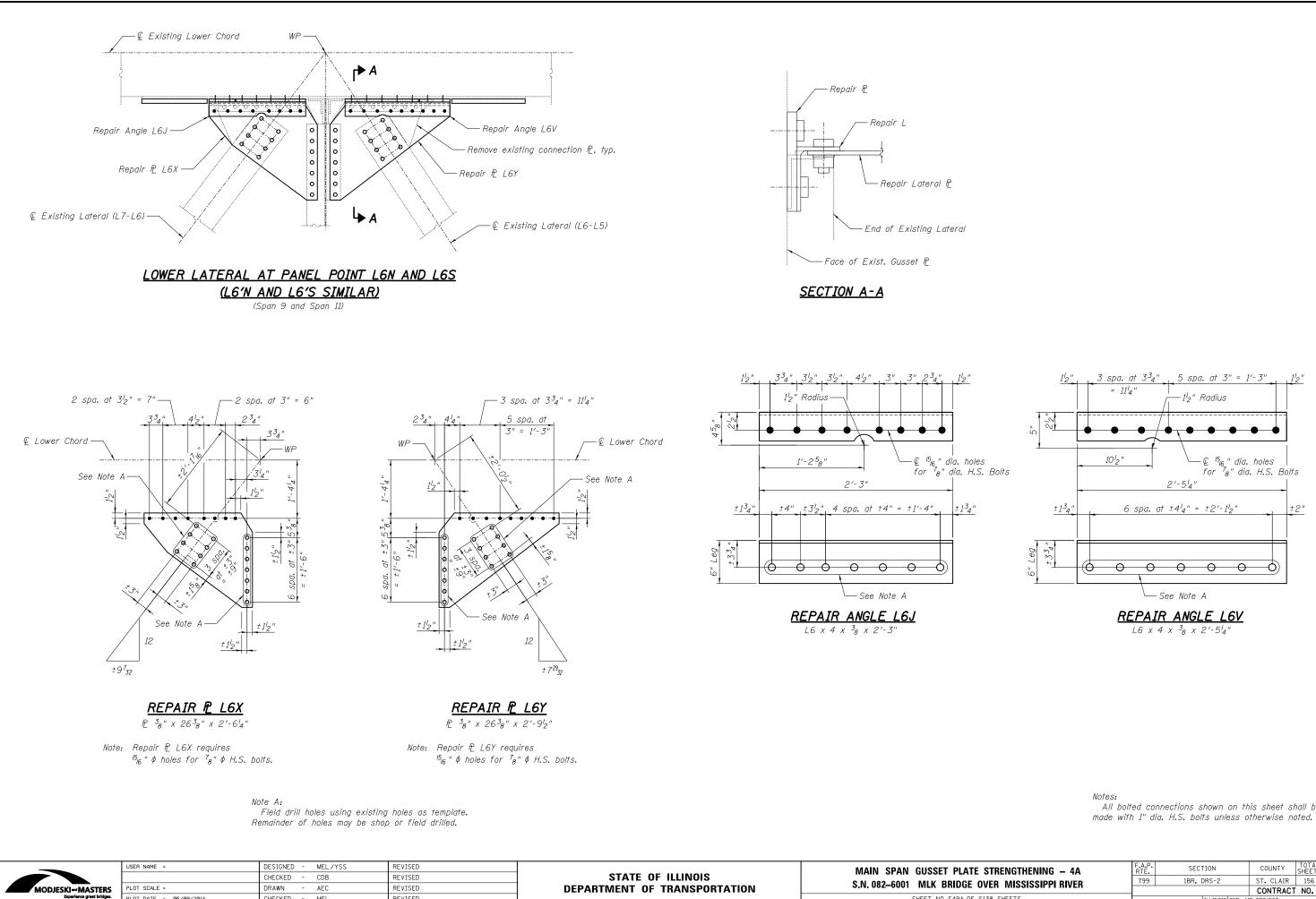
Remainder of holes may be shop or field drilled.

OBEN NAME DESIGNED MELY 133 REVISED OBEN NAME CHECKED COB REVISED NAIN SPAN GUSSET PLATE STRENGTHENING – 4 NTE. STATE OF ILLINOIS SN, 082–6001 NLK BRIDGE OVER MISSISSIPPI RIVER 799	
	ST. CLAIR 156 67
	CONTRACT NO. 76B03
Department ogreet bridges. PLOT DATE = 05/89/2014 CHECKED - MEL REVISED ILLINOIS SHEET NO. \$49 OF \$138 SHEETS ILLINOIS	ED. AID PROJECT



FILL P L6T P ⁷8" x 6" x 8'2"

Notes: For the Installation Procedure and Bill of Material, see sheet S48. For details of pieces, L6F and L6B, see sheet S48. For details of pieces, L6J and L6V, see sheet S49A. For location and details of lateral connection repair plates, see sheet S49A. All bolted connections shown on this sheet shall be made with 1" dia. H.S. bolts unless otherwise noted. For inside face of gusset plate, see sheet S8.



PLOT DATE = 05/09/2014

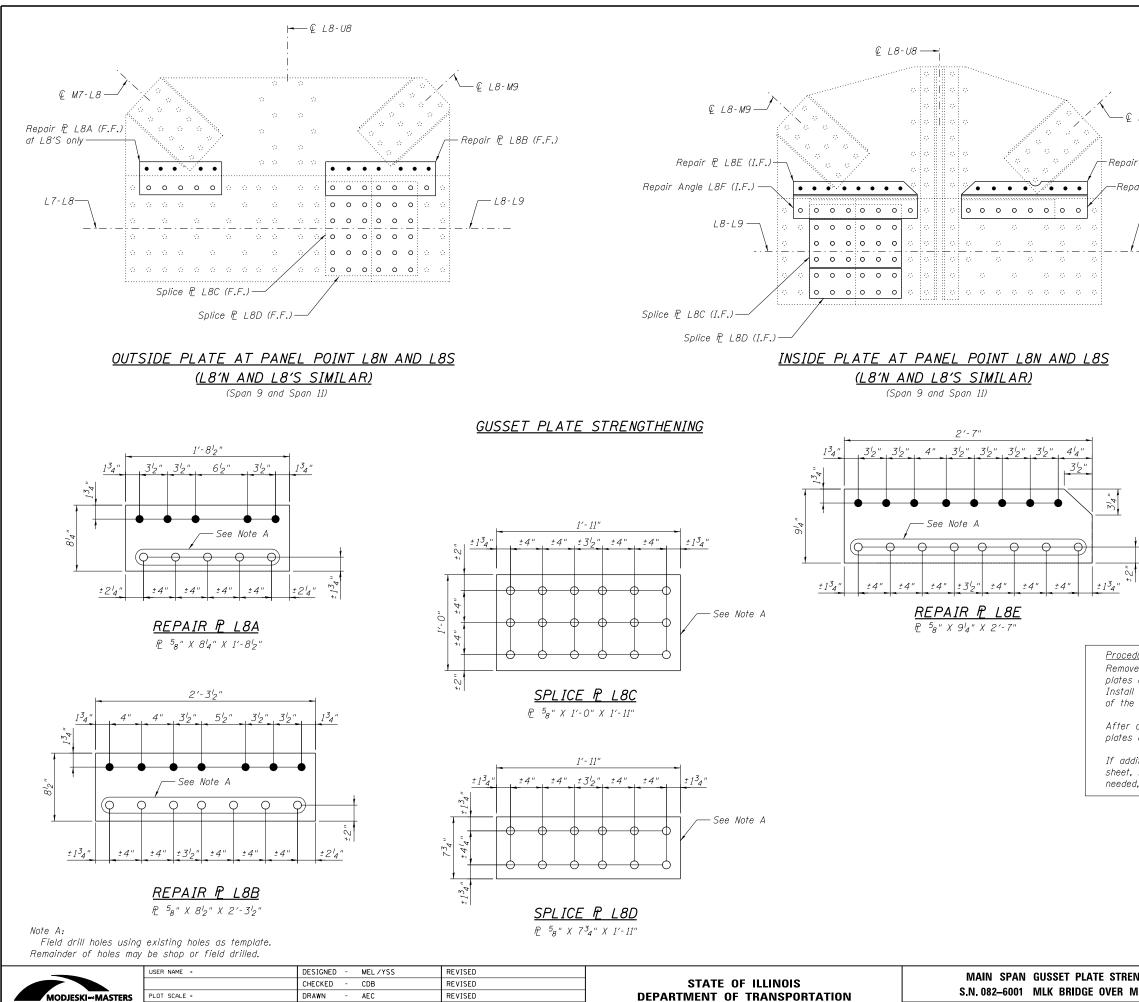
CHECKED - MEL

REVISED

SHEET NO. S49A OF S

All bolted connections shown on this sheet shall be

STRENGTHENING – 4A	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
OVER MISSISSIPPI RIVER	799	1BR, DRS-2	ST. CLAIR	156	67A
			CONTRACT	NO. 7	6B03
S138 SHEETS	ILLINOIS FED. AID PROJECT				



PLOT DATE = 05/08/2014

CHECKED -

MEL

REVISED

SHEET NO. S50 OF S

-Repair P L8G (I.F.) Repair Angle L8H (I.F.)

Procedure

Remove the bottom lateral connection plate and angle; then install repair plates and angles, as shown, one side at a time on the inside gusset plate. Install splice plate L8D on the inside gusset plate, followed by the installation of the splice plate L8C.

After completing the inside gusset plate strengthening, install the repair plates and splice plates, one at a time, on the outside gusset plate.

If additional fasteners need to be removed other than those shown on this sheet, the Contractor shall submit a procedure for review and approval. If needed, the Contractor shall provide temporary support for joints.

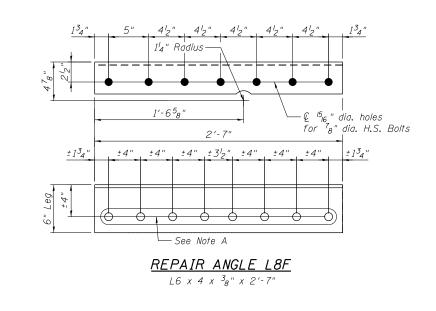
BILL OF MATERIAL

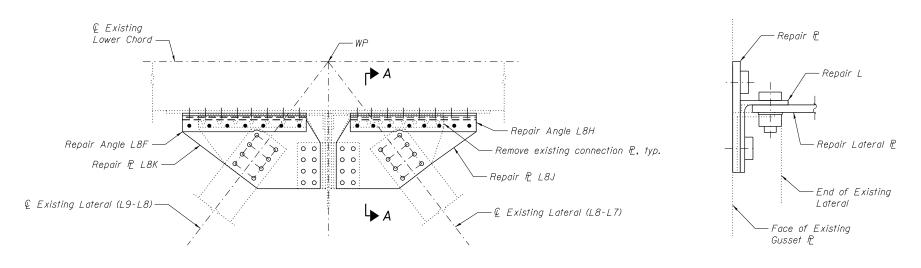
Item	Unit	Total
Structural Steel Repair	Pound	2840

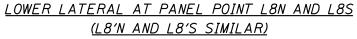
Notes:

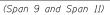
All bolted connections shown on this sheet shall be made with 1" dia. H.S. bolts unless otherwise noted. For details of pieces L8F, L8G and L8H, see sheet S50A. For front and inside faces of gusset plate, see sheet S8.

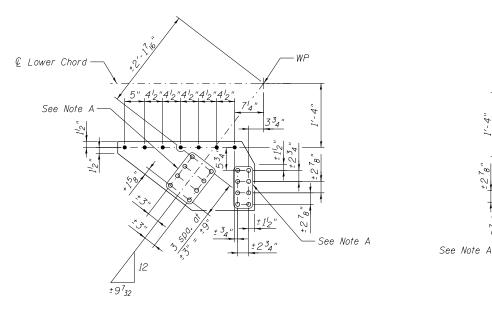
E STRENGTHENING – 5	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
OVER MISSISSIPPI RIVER		1BR, DRS-2	ST. CLAIR	156	68
			CONTRACT	NO. 7	6B03
S138 SHEETS	ILLINOIS FED. AID PROJECT				











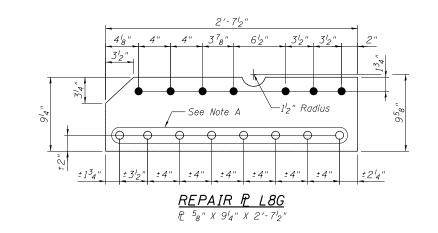
REPAIR P L8K PC 58" x 17'4" x 2'-10'4"

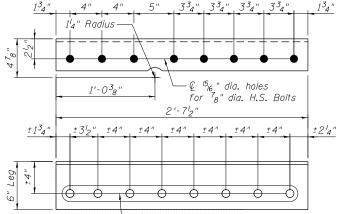
Note: Repair 🖻 L8K requires $^{15}_{16}$ " ϕ holes for $^{7}_{8}$ " ϕ H.S. bolts.

Note A: Field drill holes using existing holes as template. Remainder of holes may be shop or field drilled.



	USER NAME =	DESIGNED -	MEL /YSS	REVISED		MAIN SPAN GUSSET PLATE STRENGTHENING – 5A	F.A.P. RTF.	SECTION	COUNTY TOTAL SHEET
		CHECKED -	CDB	REVISED	STATE OF ILLINOIS	S,N, 082–6001 MLK BRIDGE OVER MISSISSIPPI RIVER	799	1BR, DRS-2	ST. CLAIR 156 68A
SKI and MASTERS Experience great bridges.	PLOT SCALE = PLOT DATE = 05/09/2014	DRAWN - CHECKED -	MEL	REVISED REVISED	DEPARTMENT OF TRANSPORTATION	SHEET NO. S50A OF S138 SHEETS		ILLINOIS FED. A	CONTRACT NO. 76B03 ID PROJECT

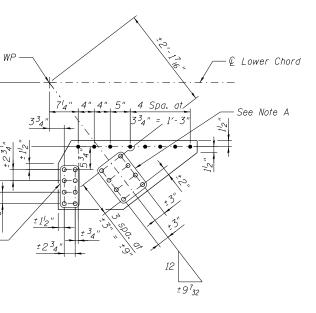




See Note A

REPAIR ANGLE L8H L6 x 4 x ³8" x 2'-7¹2"

SECTION A-A

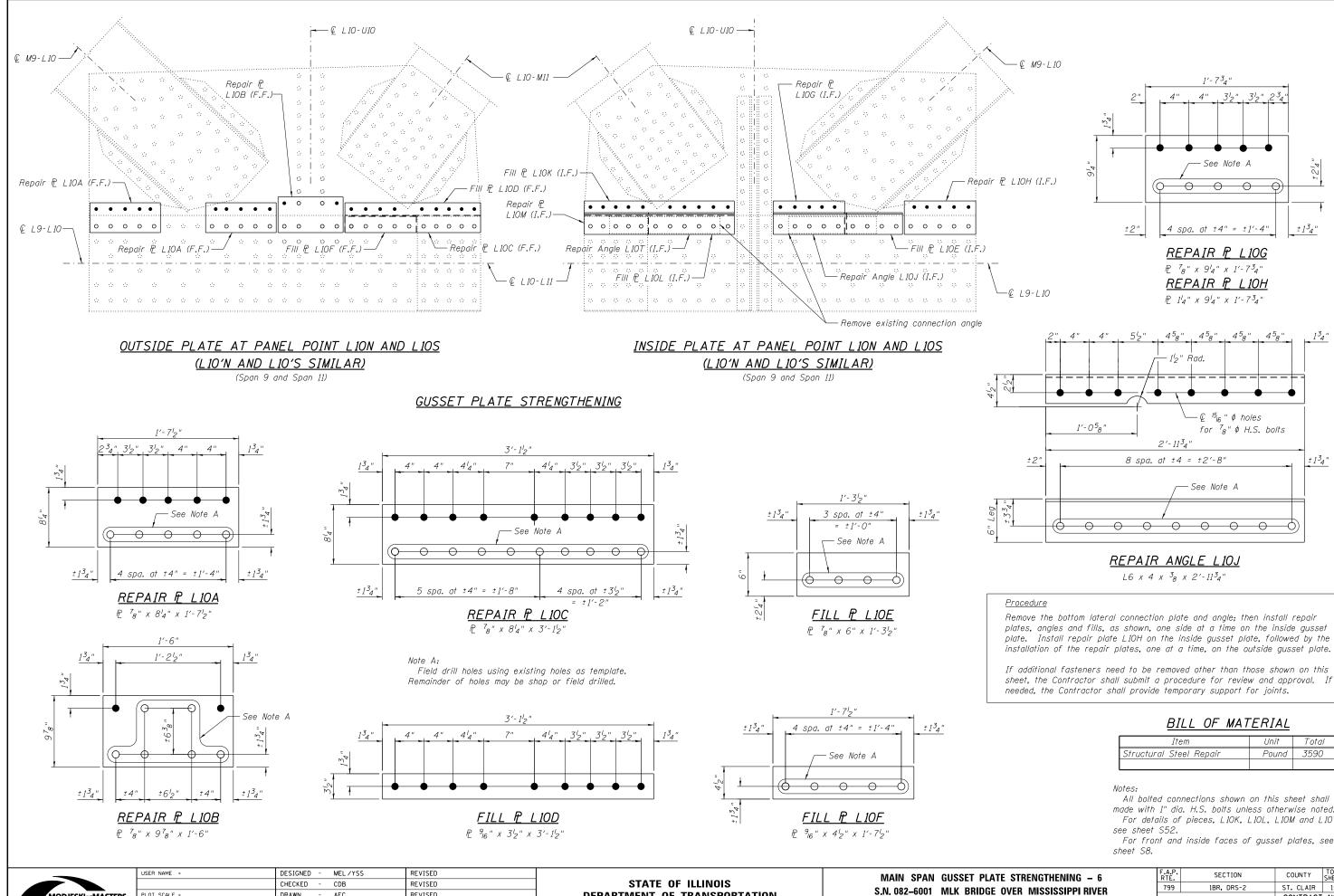


REPAIR P L8J

₽ ⁵8" x 17¹4" x 2'-10³4"

Note: Repair 🖻 L8J requires $^{15}_{16}$ " ϕ holes for $^{7}_{8}$ " ϕ H.S. bolts.

> Notes: All bolted connections shown on this sheet shall be made with 1" dia. H.S. bolts unless otherwise noted. For locations of pieces L8F, L8G and L8H, see sheet S50.



DEPARTMENT OF TRANSPORTATION

MODJESKI

PLOT SCALE =

PLOT DATE = 05/08/2014

DRAWN

CHECKED -

AEC

MEL

REVISED

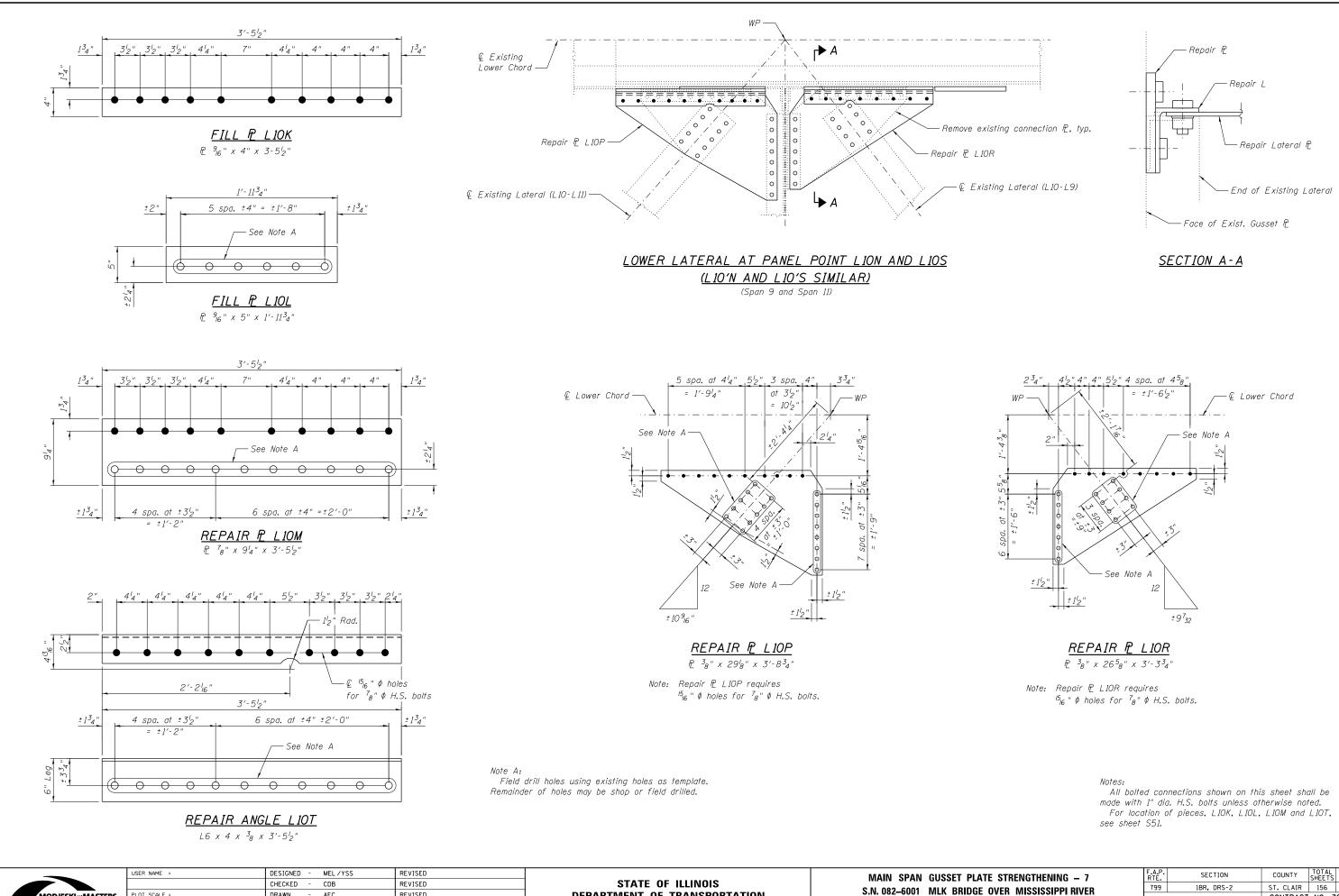
REVISED

SHEET NO. S51 OF S

Item	Unit	Total
Structural Steel Repair	Pound	3590

All bolted connections shown on this sheet shall be made with 1" dia. H.S. bolts unless otherwise noted. For details of pieces, L10K, L10L, L10M and L10T,

E STRENGTHENING – 6	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
OVER MISSISSIPPI RIVER		1BR, DRS-2	ST. CLAIR	156	69
			CONTRACT	NO. 7	6B03
S138 SHEETS	ILLINOIS FED. AID PROJECT				



MODJESKI

PLOT SCALE =

PLOT DATE = 05/08/2014

DRAWN

CHECKED - MEL

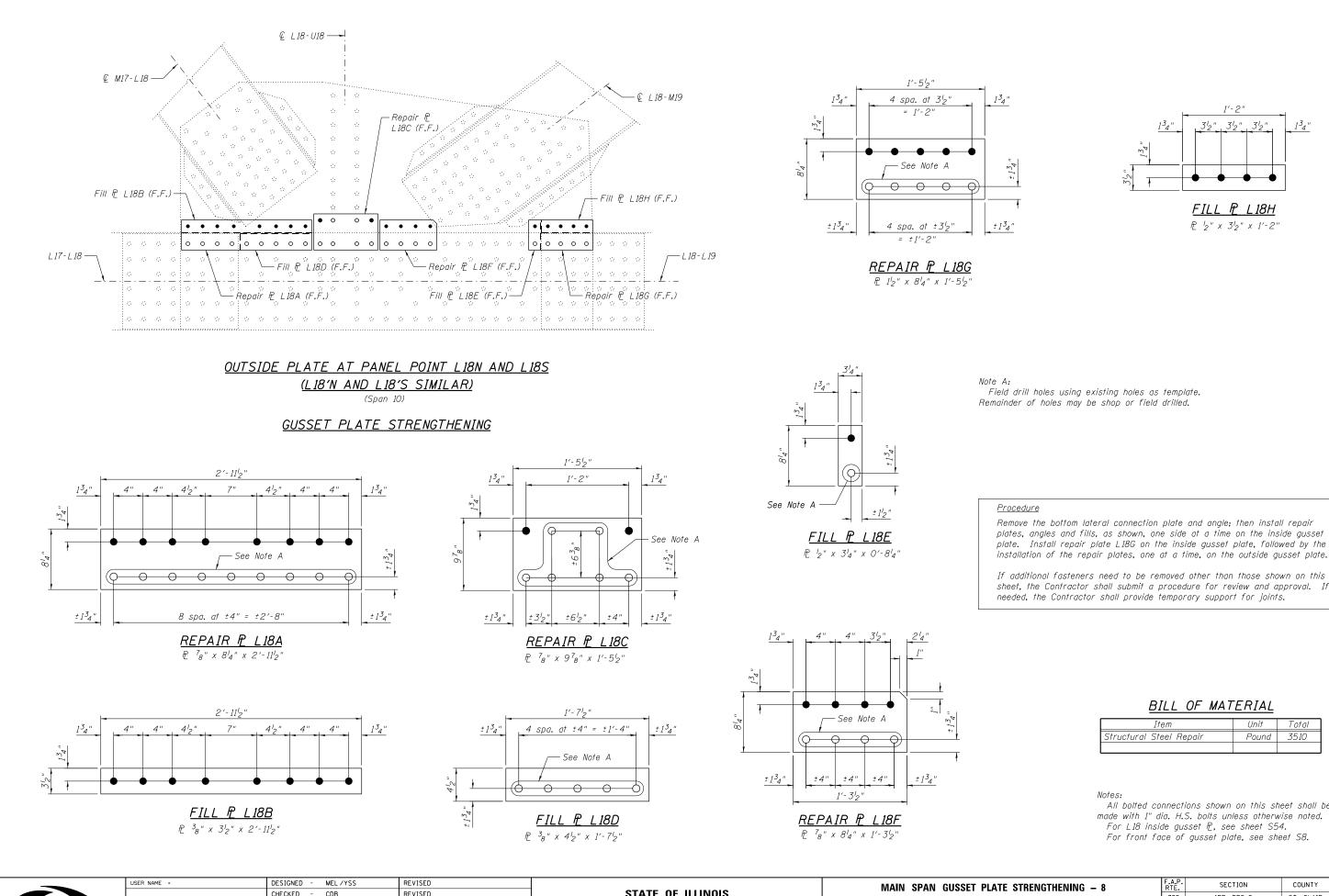
AEC

REVISED

REVISED

SHEET NO. S52 OF S

E STRENGTHENING – 7	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
OVER MISSISSIPPI RIVER		1BR, DRS-2	ST. CLAIR	156	70
	CONTRACT NO. 76B03				
S138 SHEETS	ILLINOIS FED. AID PROJECT				



IODJESKI-MASTE

	USER NAME =	DESIGNED - MEL/YSS	REVISED		MAIN SPAN GUSSET PLATE STRENGTHENING – 8	F.A.P. RTE.	SECTION	COUNTY TOTAL SH	EE⊺ NO.
		CHECKED - CDB	REVISED	STATE OF ILLINOIS	S.N. 082–6001 MLK BRIDGE OVER MISSISSIPPI RIVER	799	1BR, DRS-2	ST. CLAIR 156	71
TERS	PLOT SCALE =	DRAWN - AEC	REVISED	DEPARTMENT OF TRANSPORTATION		-		CONTRACT NO. 76B	03
at bridges.	PLOT DATE = 05/08/2014	CHECKED - MEL	REVISED		SHEET NO. S53 OF S138 SHEETS		ILLINOIS FED. AI	ID PROJECT	

plates, angles and fills, as shown, one side at a time on the inside gusset plate. Install repair plate LI8G on the inside gusset plate, followed by the installation of the repair plates, one at a time, on the outside gusset plate.

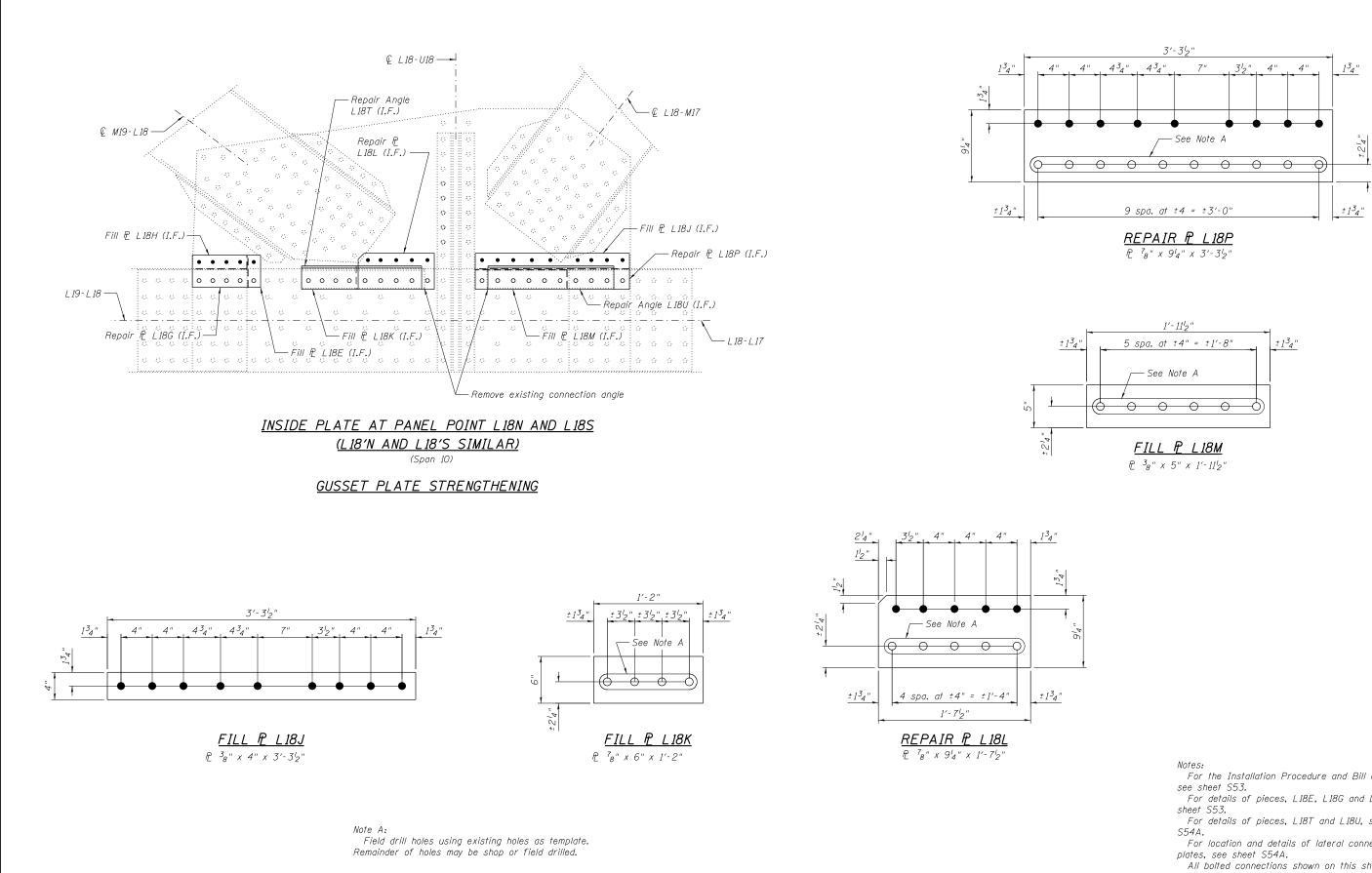
sheet, the Contractor shall submit a procedure for review and approval. If needed, the Contractor shall provide temporary support for joints.

BILL OF MATERIAL

134"

Item	Unit	Total
Structural Steel Repair	Pound	3510

All bolted connections shown on this sheet shall be made with 1" dia. H.S. bolts unless otherwise noted. For L18 inside gusset P, see sheet S54. For front face of gusset plate, see sheet S8.

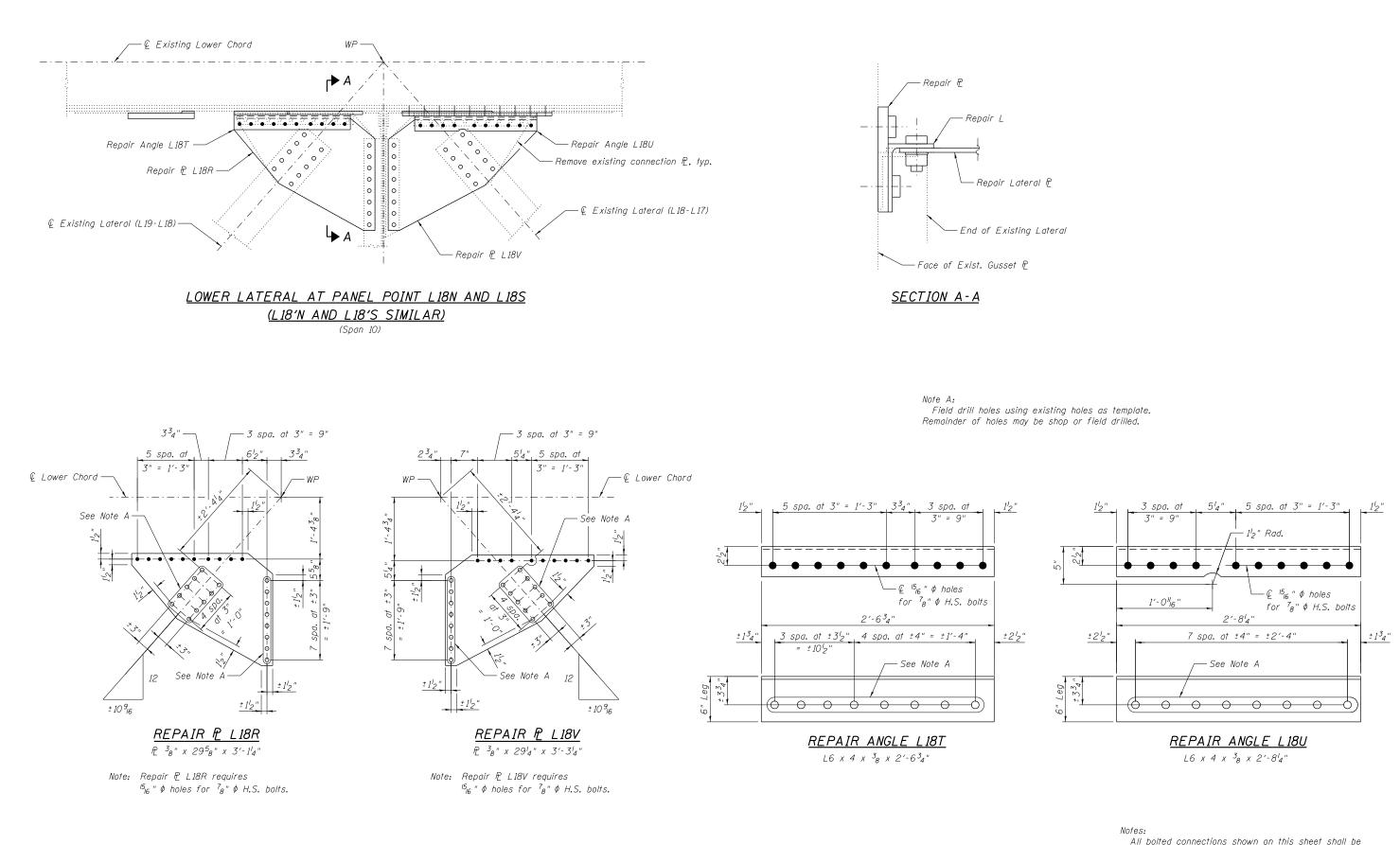


MODJESKI and MASTERS

USER NAME = DESIGNED - MEL REVISED MAIN SPAN GUSSET PLATE STATE OF ILLINOIS CHECKED - CDB REVISED S.N. 082-6001 MLK BRIDGE 0 PLOT SCALE = DRAWN AEC REVISED **DEPARTMENT OF TRANSPORTATION** PLOT DATE = 05/08/2014 CHECKED - MEL SHEET NO. S54 OF S1 REVISED

For the Installation Procedure and Bill of Material, see sheet S53. For details of pieces, L18E, L18G and L18H, see For details of pieces, L18T and L18U, see sheet For location and details of lateral connection repair All bolted connections shown on this sheet shall be made with 1" dia. H.S. bolts unless otherwise noted. For inside face of gusset plate, see sheet S8.

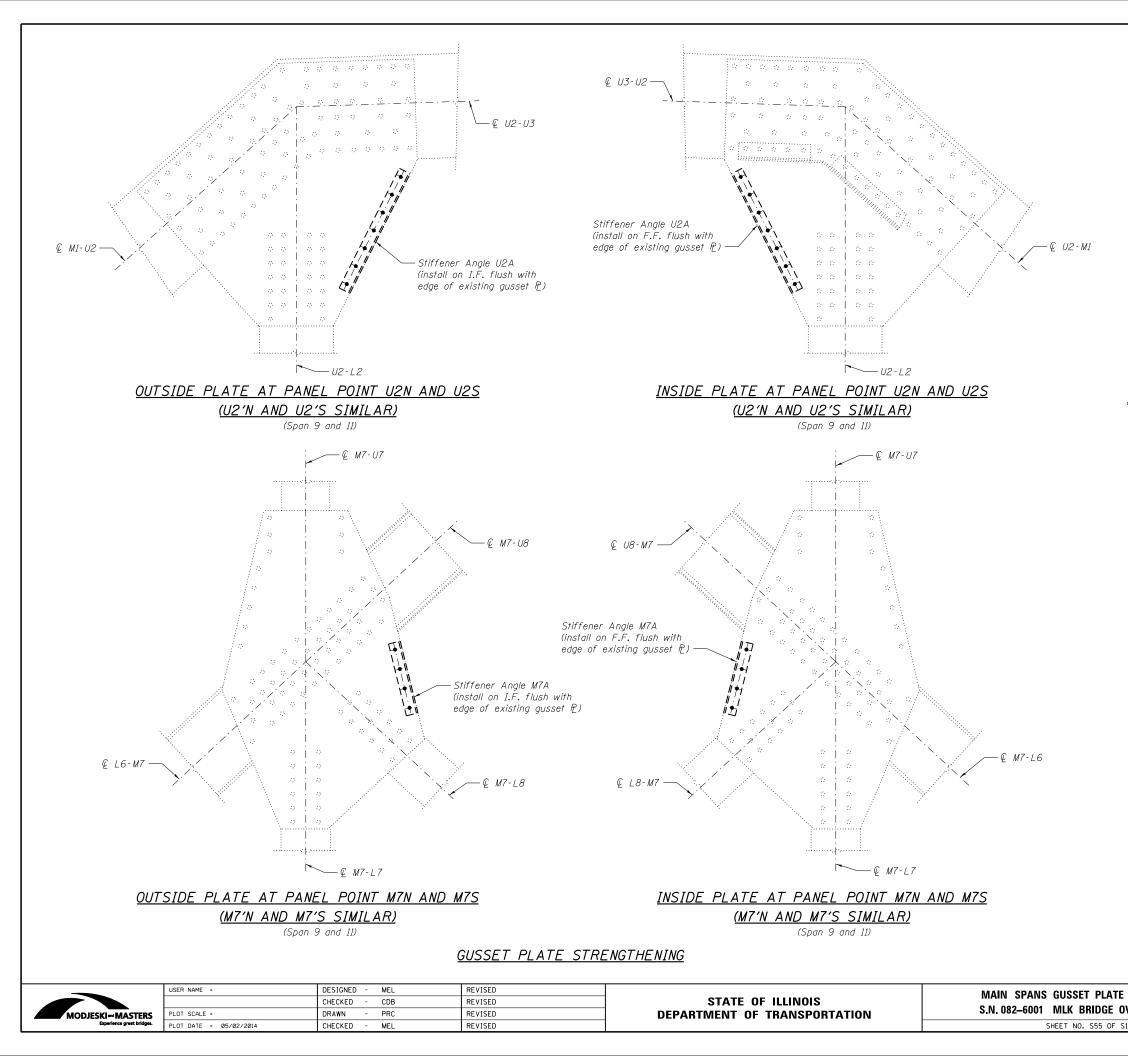
STRENGTHENING – 9	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
OVER MISSISSIPPI RIVER	799	1BR, DRS-2	ST. CLAIR	156	72
JVEN WIJSJISSIFFI NIVEN			CONTRACT	NO. 7	6B03
S138 SHEETS		ILLINOIS FED. AI	D PROJECT		

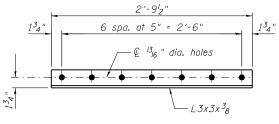


MODJESKI- MASTERS
Experience great bridges.

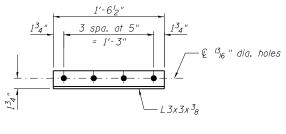
	USER NAME =	DESIGNED - MEL/YSS	REVISED		MAIN SPAN GUSSET PLATE STRENGTHENING – 9A	F.A.P. SECTION	COUNTY TOTAL SHEET
		CHECKED - CDB	REVISED	STATE OF ILLINOIS		799 1BR, DRS-2	ST. CLAIR 156 72A
MASTERS	PLOT SCALE =	DRAWN - AEC	REVISED	DEPARTMENT OF TRANSPORTATION	S.N. 082–6001 MLK BRIDGE OVER MISSISSIPPI RIVER		CONTRACT NO. 76B03
ice great bridges.	PLOT DATE = 05/09/2014	CHECKED - MEL	REVISED		SHEET NO. S54A OF S138 SHEETS	ILLINOIS FED.	AID PROJECT

All bolted connections shown on this sheet shall be made with 1" dia. H.S. bolts unless otherwise noted.







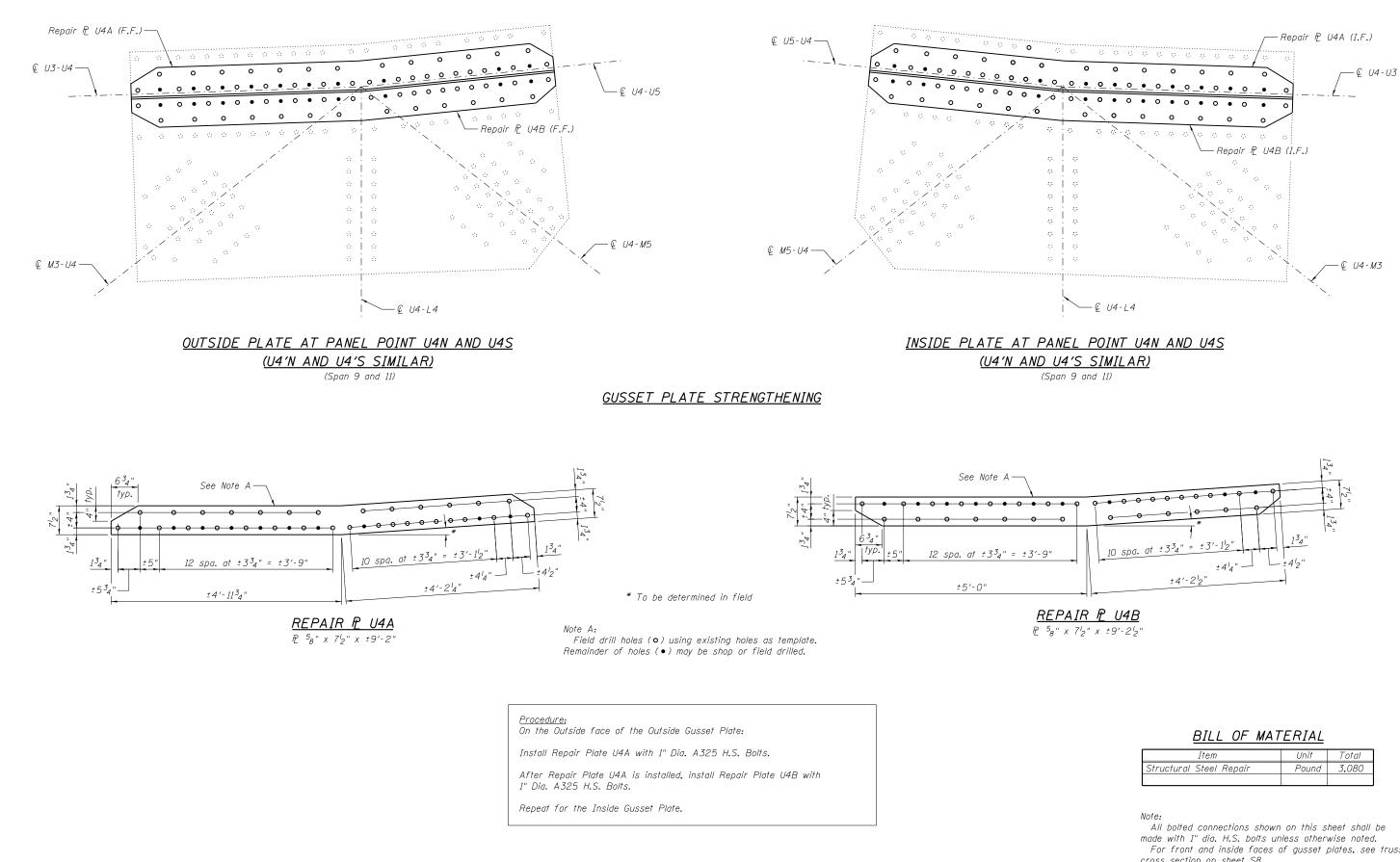


STIFFENER ANGLE M7A

Notes: Field drill holes in existing gusset plate using new material as template. All bolted connections shown on this sheet shall be made with ${}^{3}_{4}$ " dia. H.S. bolts unless otherwise noted.

Item	Unit	Total
Structural Steel Repair	Pound	300

STRENGTHENING – 10		SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VER MISSISSIPPI RIVER	799	1BR, DRS-2	ST. CLAIR	156	73
			CONTRACT	NO. 7	6B03
138 SHEETS		ILLINOIS FED. AI	D PROJECT		

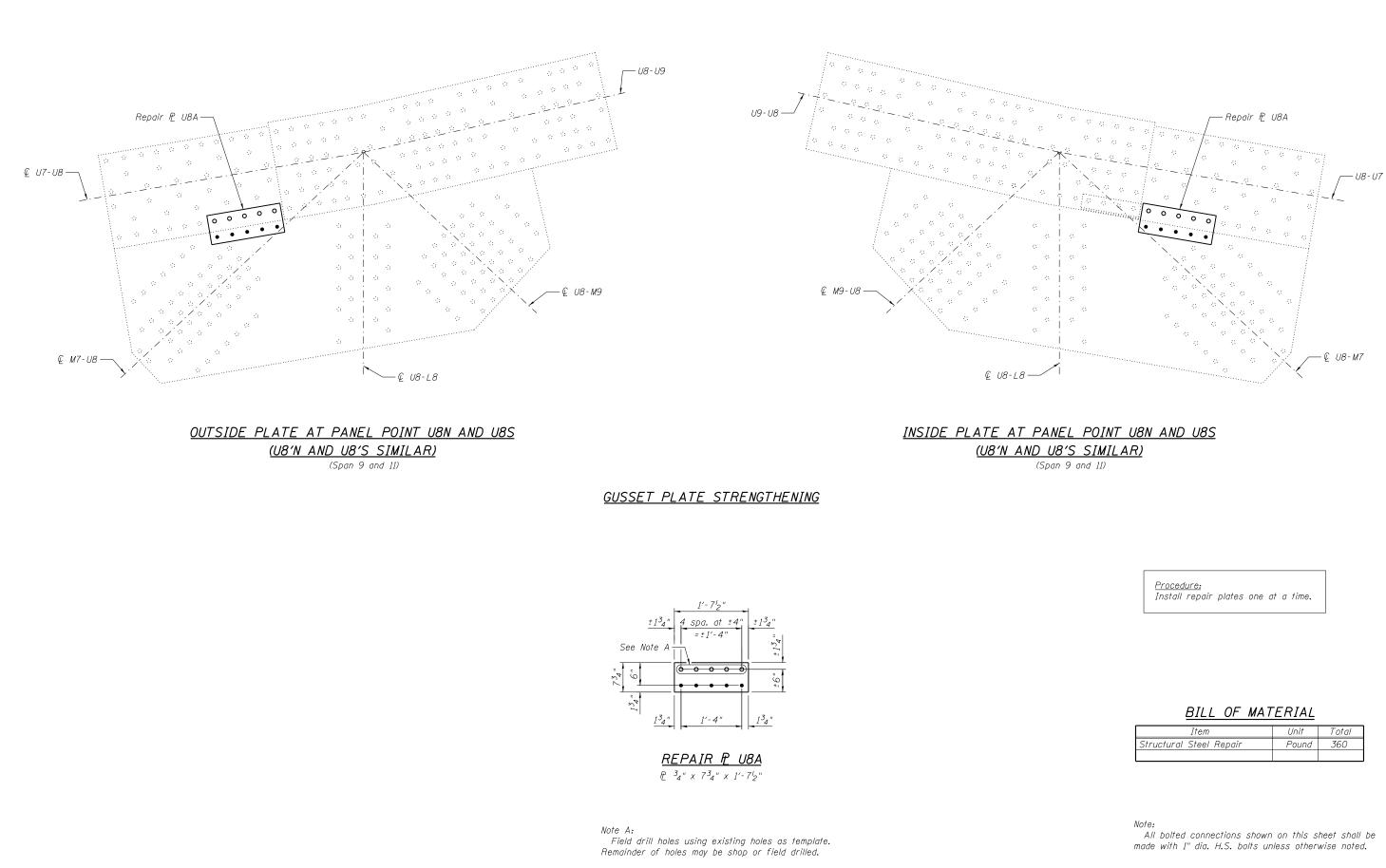


	USE
MODJESKI	PLO
Experience great bridges.	PLO

	USER NAME =	DESIGNED -	MEL	REVISED		MAIN SPANS GUSSET PLATE STRENGTHENING - 11	F.A.P.	SECTION	COUNTY	TOTAL	SHEET
		CHECKED -	CDB	REVISED	STATE OF ILLINOIS	S.N. 082–6001 MLK BRIDGE OVER MISSISSIPPI RIVER	799	1BR, DRS-2	ST. CLAIR	156	74
ERS	PLOT SCALE =	DRAWN -	PRC	REVISED	DEPARTMENT OF TRANSPORTATION	5,14, UOZ-OUUT WILK DRIDGE OVER WIJSJISJIFFI RIVER			CONTRAC	T NO. 7	76B03
ridges.	PLOT DATE = 05/02/2014	CHECKED -	MEL	REVISED		SHEET NO. S56 OF S138 SHEETS		ILLINOIS FEE	D. AID PROJECT		

Item	Unit	Total
Structural Steel Repair	Pound	3,080

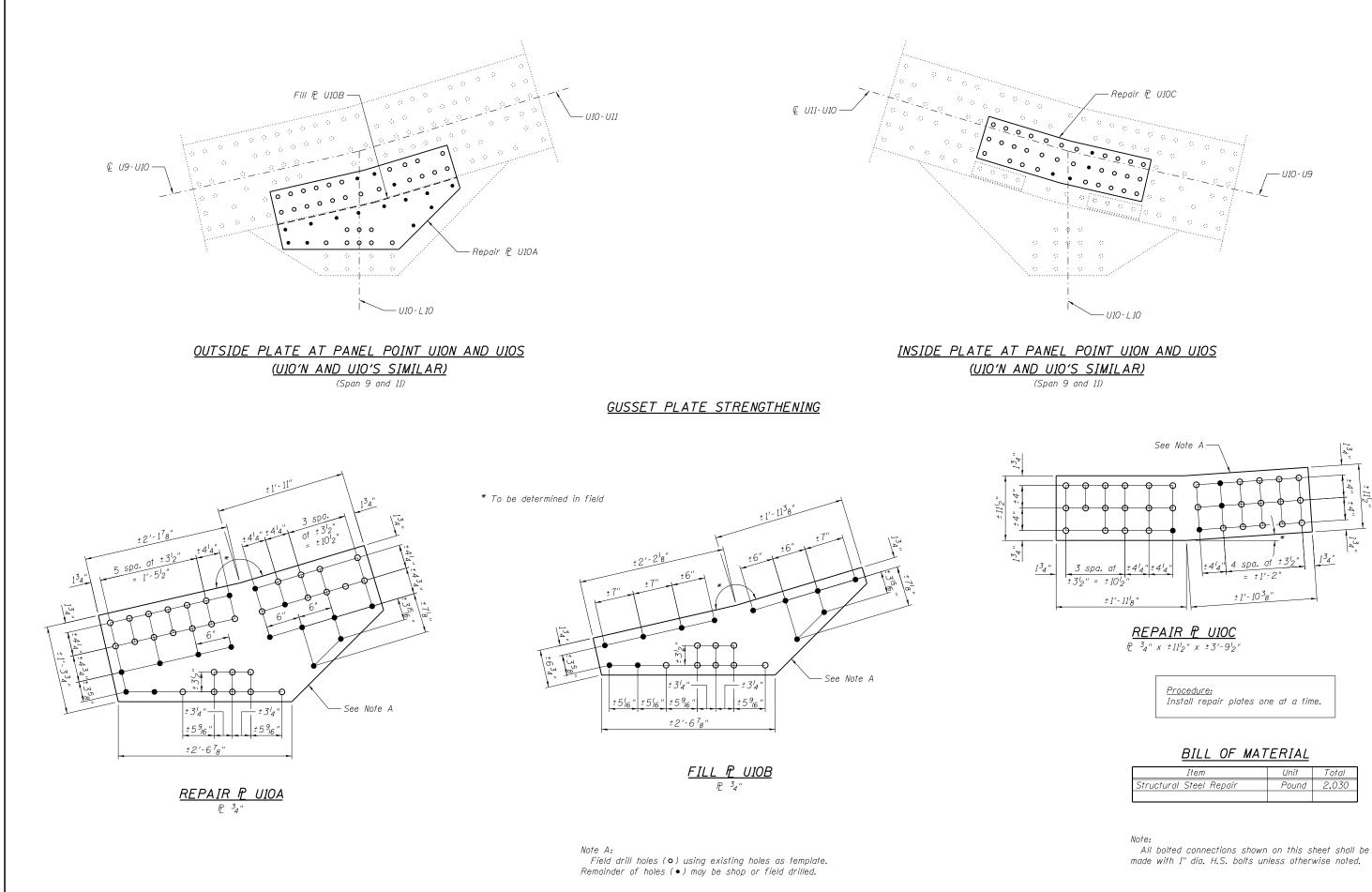
For front and inside faces of gusset plates, see truss cross section on sheet S8.





	USER NAME =	DESIGNED -	MEL	REVISED		MAIN SPANS GUSSET PLATE STRENGTHENING – 12	F.A.P. RTE.	SECTION	COUNTY	TOTAL	SHEET NO.
		CHECKED -		REVISED	STATE OF ILLINOIS	S.N. 082–6001 MLK BRIDGE OVER MISSISSIPPI RIVER	799	1BR, DRS-2	ST. CLAIR	156	75
STERS	PLOT SCALE =	DRAWN -	PRC	REVISED	DEPARTMENT OF TRANSPORTATION				CONTRACT	NO. 7	6B03
at bridges.	PLOT DATE = 05/02/2014	CHECKED -	MEL	REVISED		SHEET NO. S57 OF S138 SHEETS		ILLINOIS FED.	AID PROJECT		

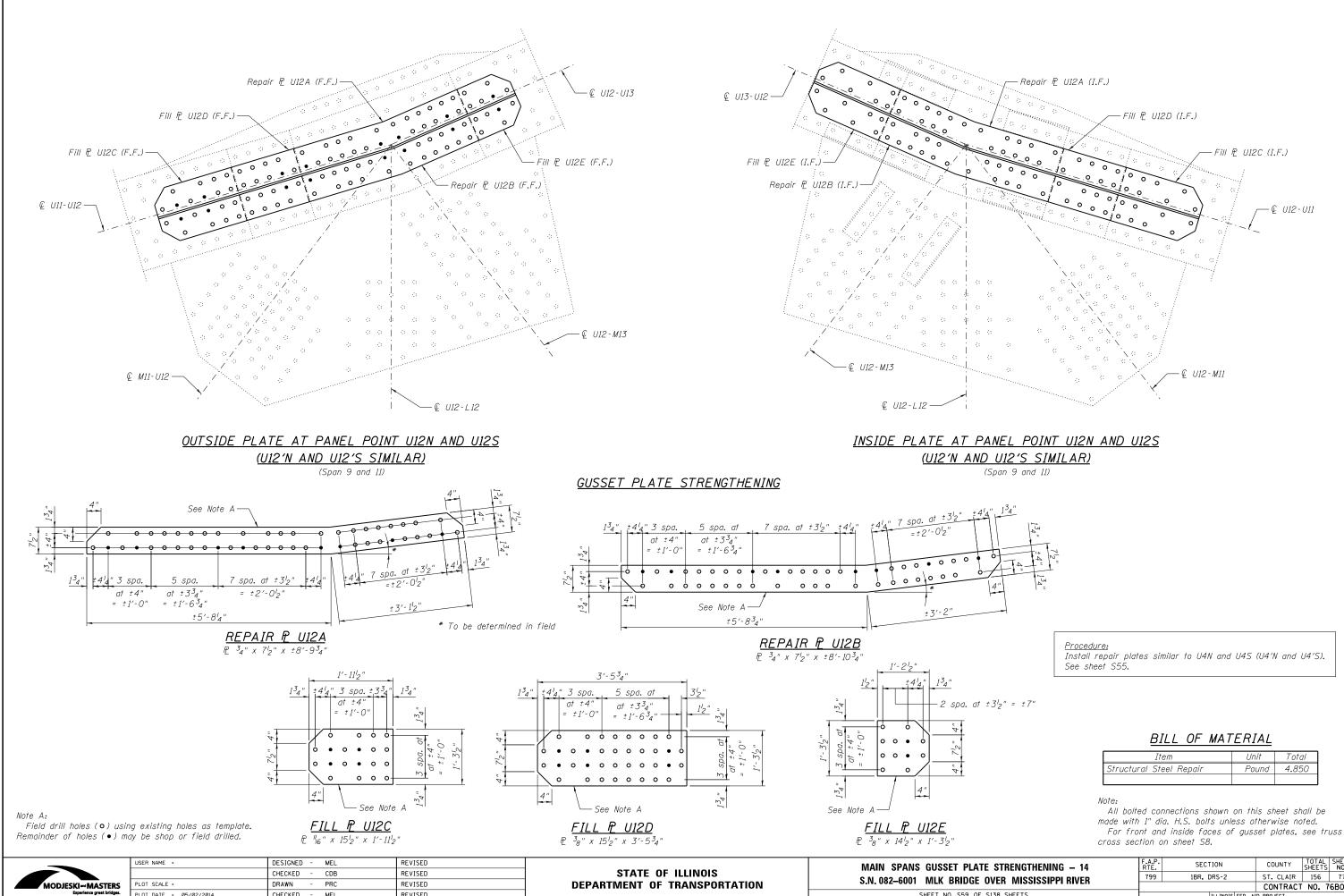
Item	Unit	Total
Structural Steel Repair	Pound	360



M	ODJESKI and MASTERS Experience great bridges.

	USER NAME =	DESIGNED - MEL	REVISED		MAIN SPANS GUSSET PLATE STRENGTHENING – 13	F.A.P. RTF.	SECTION	COUNTY TOTAL SHEET	LISHEEI
		CHECKED - CDB	REVISED	STATE OF ILLINOIS	S,N, 082–6001 MLK BRIDGE OVER MISSISSIPPI RIVER	799	1BR, DRS-2	ST. CLAIR 156	76
S	PLOT SCALE =	DRAWN - PRC	REVISED	DEPARTMENT OF TRANSPORTATION		_		CONTRACT NO.	76B03
n.	PLOT DATE = 05/02/2014	CHECKED - MEL	REVISED		SHEET NO. S58 OF S138 SHEETS		ILLINOIS FED.	AID PROJECT	

Item	Unit	Total
Structural Steel Repair	Pound	2,030



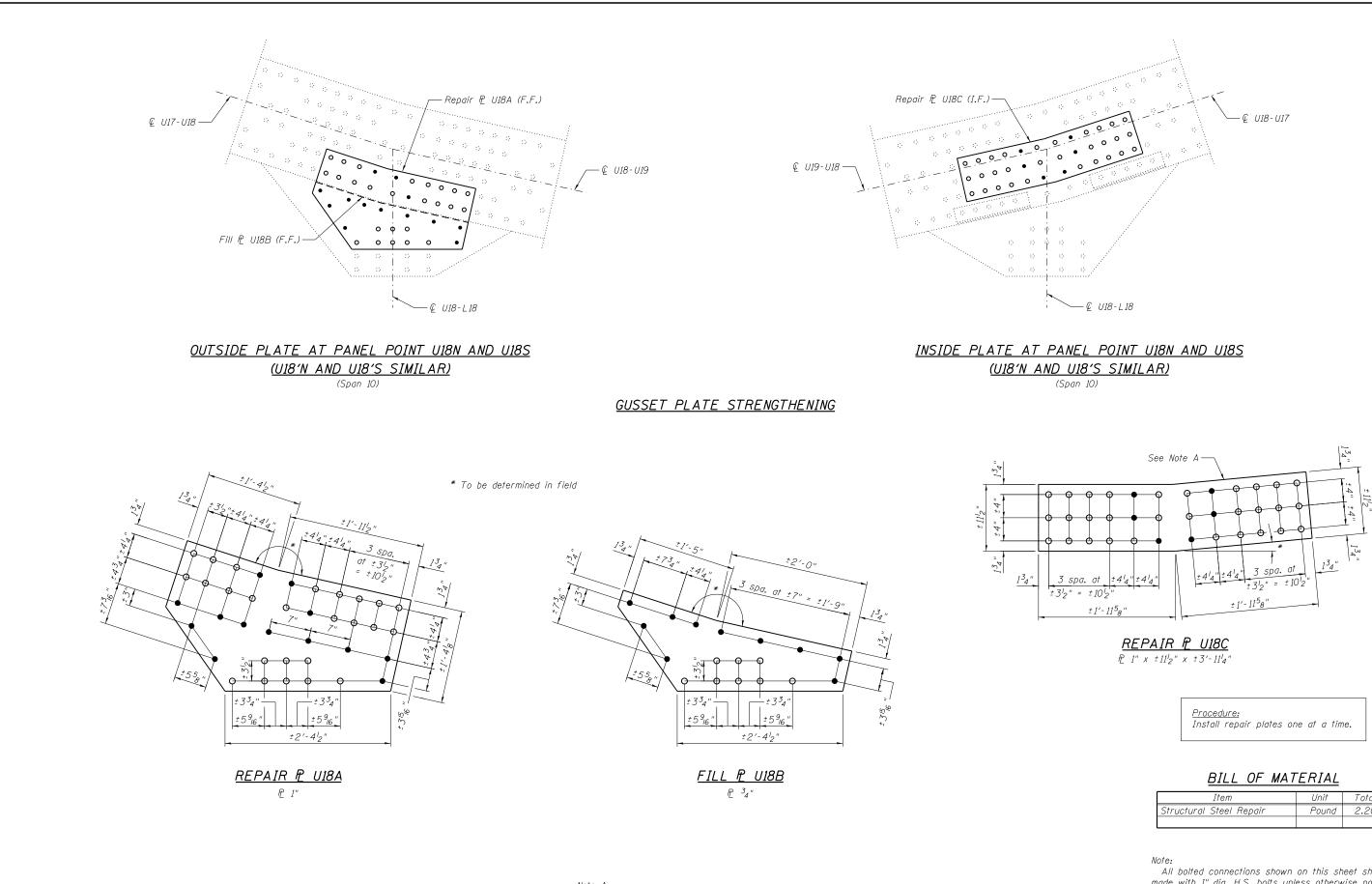
SHEET NO. S59 OF S

PRC CHECKED -MEL

REVISED

PLOT DATE = 05/02/2014

STRENGTHENING - 14	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
OVER MISSISSIPPI RIVER	799	1BR, DRS-2	ST. CLAIR	156	77
JVLN MISSISSIFFI NIVLN			CONTRACT	NO. 7	6B03
S138 SHEETS	ILLINOIS FED. AID PROJECT				



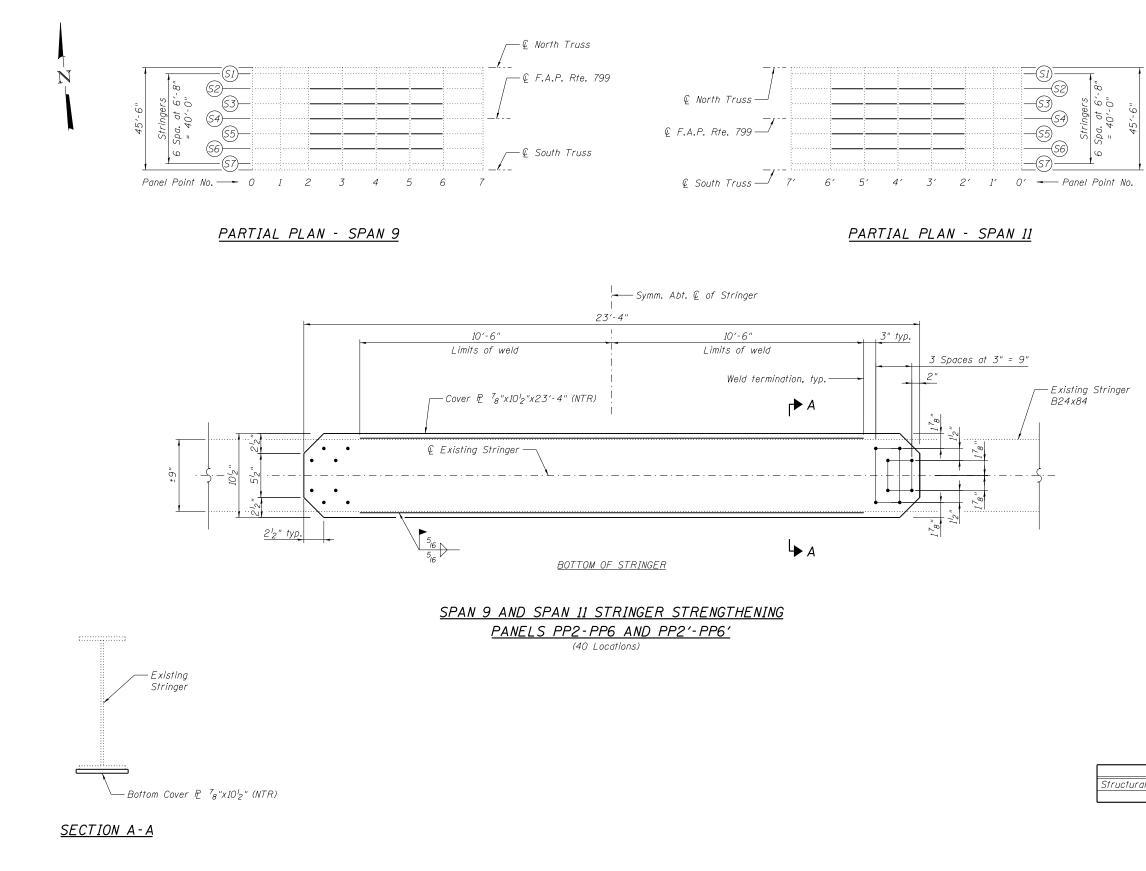
Note A: Field drill holes (•) using existing holes as template. Remainder of holes (•) may be shop or field drilled.



Item	Unit	Total
Structural Steel Repair	Pound	2.200

All bolted connections shown on this sheet shall be made with 1" dia. H.S. bolts unless otherwise noted. For front and inside faces of gusset plates, see truss cross section on sheet S8.

E STRENGTHENING – 15 DVER MISSISSIPPI RIVER F.A.P. SECTION TOTAL SHEETS NO. 299 1BR, DRS-2 ST. CLAIR 156 78							
OVER MISSISSIPPI RIVER 799 1BR, DRS-2 ST. CLAIR 156 78	E STRENGTHENING – 15	F.A.P. RTE.	SECTION	COUNTY		SHEET NO.	
		799	1BR, DRS-2	ST. CLAIR	156	78	
CONTRACT NO. 76B03	UVEN IVIISSISSIFFI NIVEN	CONTRACT NO. 76B03					
S138 SHEETS ILLINOIS FED. AID PROJECT	S138 SHEETS	ILLINOIS FED. AID PROJECT					



	USER NAME =	DESIGNED - MEL	REVISED		MAIN S
		CHECKED - CDB	REVISED	STATE OF ILLINOIS	
MODJESKI-MASTERS	PLOT SCALE =	DRAWN - AEC	REVISED	DEPARTMENT OF TRANSPORTATION	5
Experience great bridges.	PLOT DATE = 05/02/2014	CHECKED - MEL	REVISED		

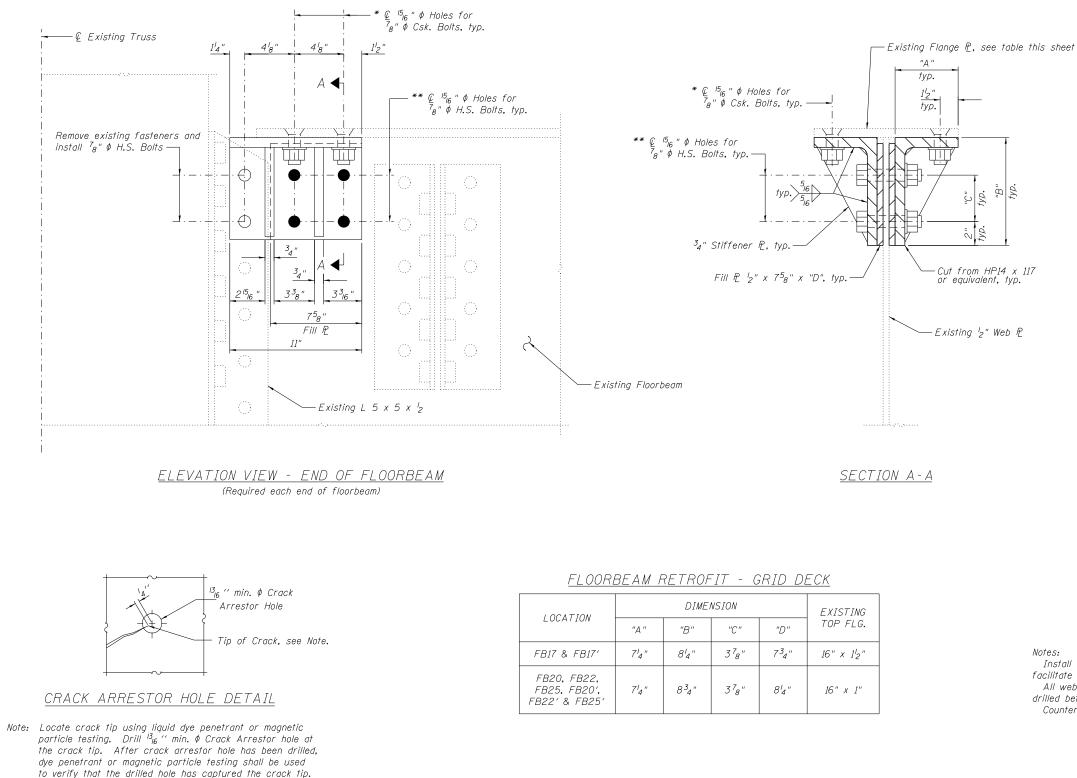
BILL OF MATERIAL

Item	Unit	Total
Structural Steel Repair	Pound	30,210

Note:

Load carrying components designed "NTR" shall conform to the Impact Testing Requirement, Zone 2.

N SPAN STRINGER STRENGTHENING PP2-PP6 AND PP2'-PP6'	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
S.N. 082–6001 MLK BRIDGE OVER MISSISSIPPI RIVER	799	1BR, DRS-2	ST. CLAIR	156	79
			CONTRACT	NO. 7	6B03
SHEET NO. S61 OF S138 SHEETS		ILLINOIS FED. A	D PROJECT		



	USER NAME =	DESIGNED - PRC CHECKED - CDB	REVISED REVISED	STATE OF ILLINOIS	MAIN SPANS FLOORBEAM RE
MODJESKI === MASTERS Experience great bridges.	PLOT SCALE =	DRAWN - PRC	REVISED	DEPARTMENT OF TRANSPORTATION	S.N. 082–6001 MLK BRIDGE OVE
	PLOT DATE = 05/02/2014	CHECKED - CDB	REVISED		SHEET NO. S62 OF S138

Cost shall be included with Structural Steel Repair.

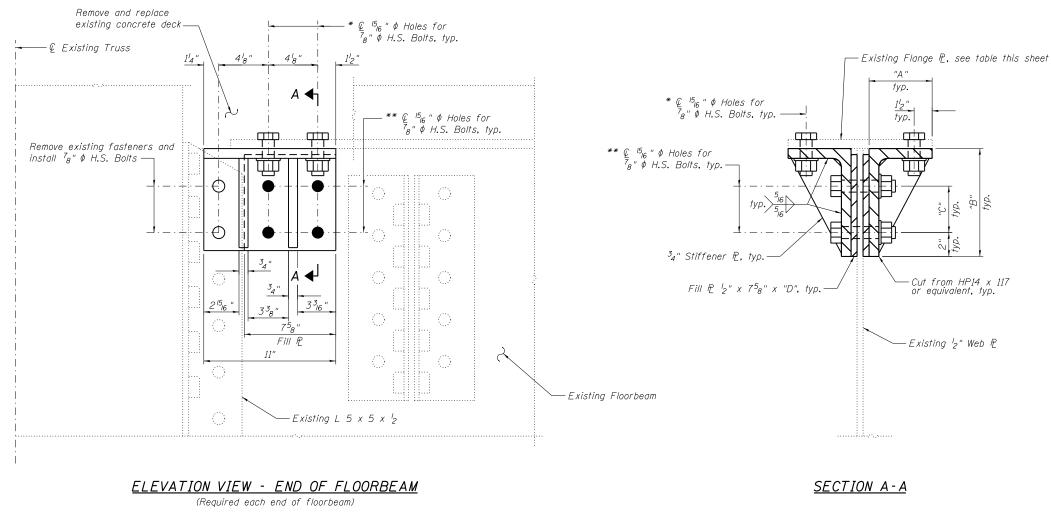
- * Drill countersunk holes in floorbeam flange
- ** Drill holes in floorbeam web, where applicable

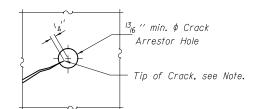
Notes: Install floorbeam retrofit during grid deck replacement to facilitate access to the floorbeam flange. All webs shall be checked for cracks and arrestor holes drilled before plates added.

Countersunk fasterners shall be galvanized ASTM A449.

Item	Unit	Total
Structural Steel Repair	Pound	4180

RETROFIT DETAILS – 1	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
OVER MISSISSIPPI RIVER	799	1BR, DRS-2	ST. CLAIR	156	80
			CONTRACT	NO. 7	6B03
S138 SHEETS		ILLINOIS FED. AI	D PROJECT		





CRACK ARRESTOR HOLE DETAIL

Note: Locate crack tip using liquid dye penetrant or magnetic particle testing. Drill $^{13}_{16}$ $^{\prime\prime}$ min. ϕ Crack Arrestor hole at the crack tip. After crack arrestor hole has been drilled, dye penetrant or magnetic particle testing shall be used to verify that the drilled hole has captured the crack tip. Cost shall be included with Structural Steel Repair.

FLOORBEAM RETROFIT - CONCRETE DECK

LOCATION	EXISTING				
LUCATION	"A "	"B"	"C"	"D"	TOP FLG.
FB14 & FB14'	5′4″	9"	3 ⁷ 8"	8½"	12" x ³ 4"
FB8′	7′ ₄ ″	8"	3 ³ 4"	7 ¹ 2"	16" x 1' ₂ "



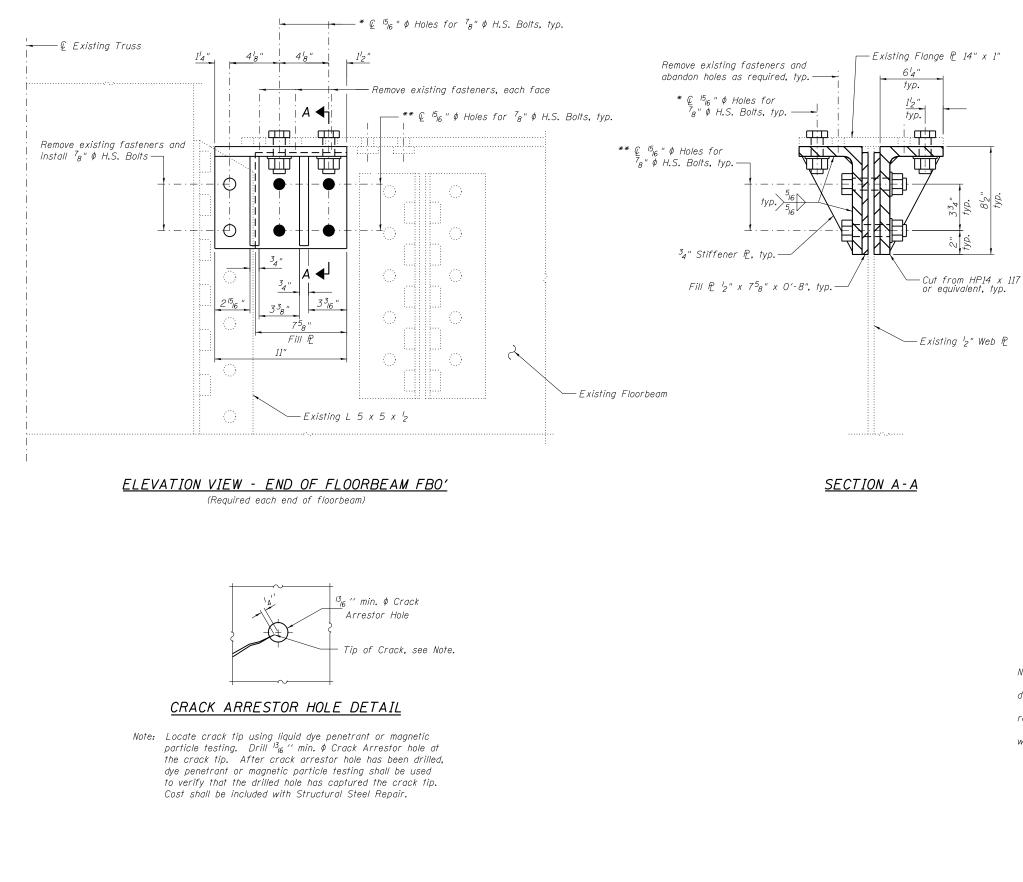
	USER NAME =	DESIGNED - PRC CHECKED - CDB	REVISED REVISED	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	MAIN SPANS FLOORBEAM RET
ASTERS	PLOT SCALE =	DRAWN - PRC	REVISED		S.N. 082–6001 MLK BRIDGE OVE
e great bridges.	PLOT DATE = 05/02/2014	CHECKED - CDB	REVISED		SHEET NO. S63 OF S138

- * Drill holes in floorbeam flange
- ** Drill holes in floorbeam web, where applicable

Notes: All webs shall be checked for cracks and arrestor holes drilled before plates added. For concrete deck removal details, see sheets S28 and S29.

Item	Unit	Total
Structural Steel Repair	Pound	1540

RETROFIT DETAILS – 2	F.A.P. RTE.	SECT	ION		CO	UNTY	TOTAL SHEETS	SHEET NO.
VER MISSISSIPPI RIVER	799	1BR, D	RS-2		ST.	CLAIR	156	81
					00	NTRACT	NO. 7	6B03
S138 SHEETS		1	ILLINOIS	FED. A	ID PROJ	ECT		



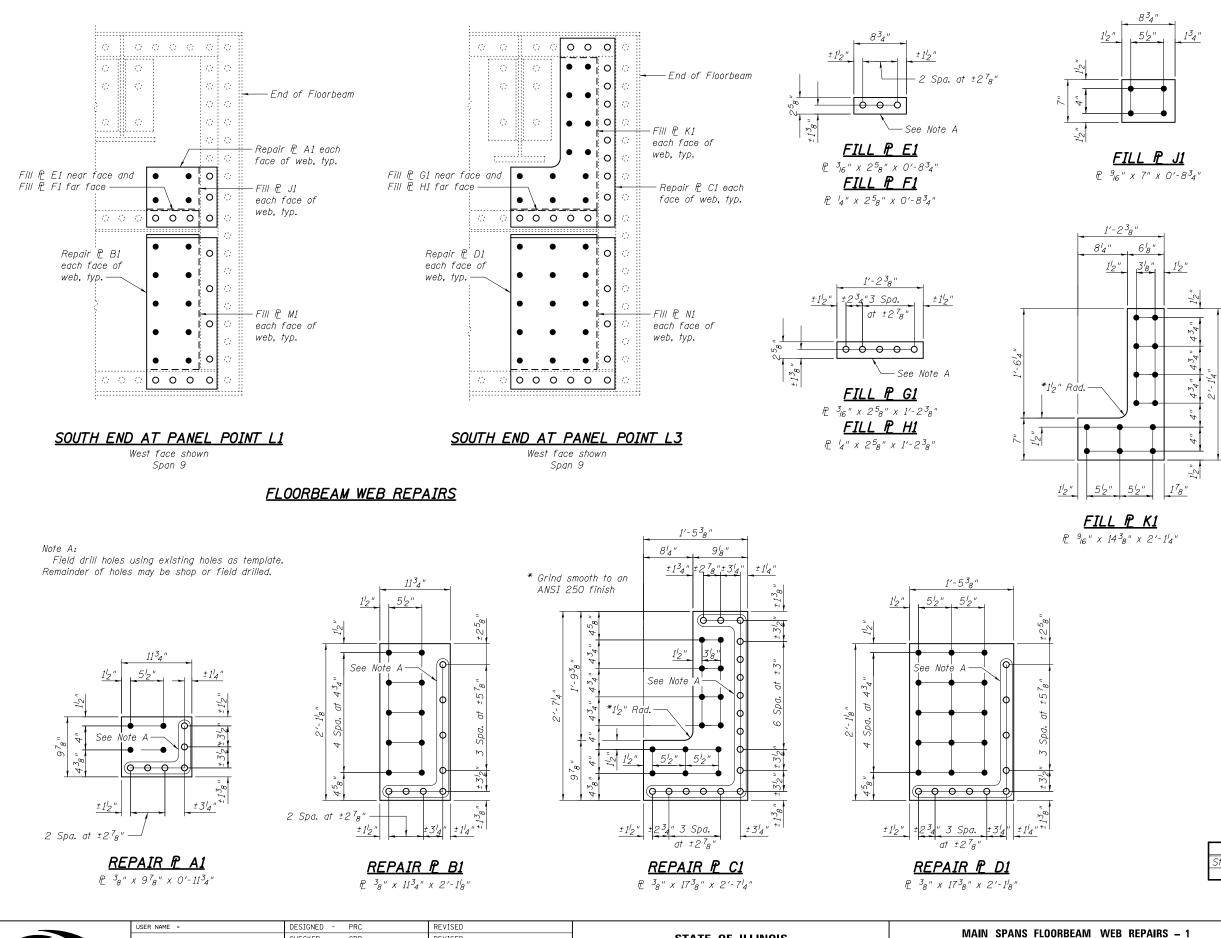
MODJESKI MASTERS Experience great bridges.

- * Drill holes in floorbeam flange
- ** Drill holes in floorbeam web, where applicable

Notes: The web shall be checked for cracks and arrestor holes drilled before plates added. For finger plate expansion joint removal and resetting, see sheet S101. Fill abandoned holes with tight fitting steel plug coated with epoxy and grind smooth.

Item	Unit	Total
Structural Steel Repair	Pound	520

RETROFIT DETAILS – 3	F.A.P. RTE.	SECT	TION		COU	NTY	TOTAL SHEETS	SHEET NO.
VER MISSISSIPPI RIVER	799	1BR, [DRS-2		ST. C	LAIR	156	82
					CON.	TRACT	NO. 7	6B03
S138 SHEETS			ILLINOIS	FED. A	D PROJEC	CT		

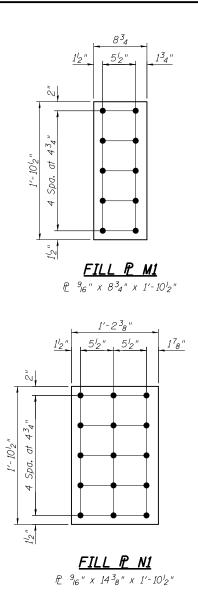


 USER NAME =
 DESIGNED PRC
 REVISED

 MODJESKI-MASTERS beginna gret bridge.
 PLOT SCALE =
 DRAWN PRC
 REVISED

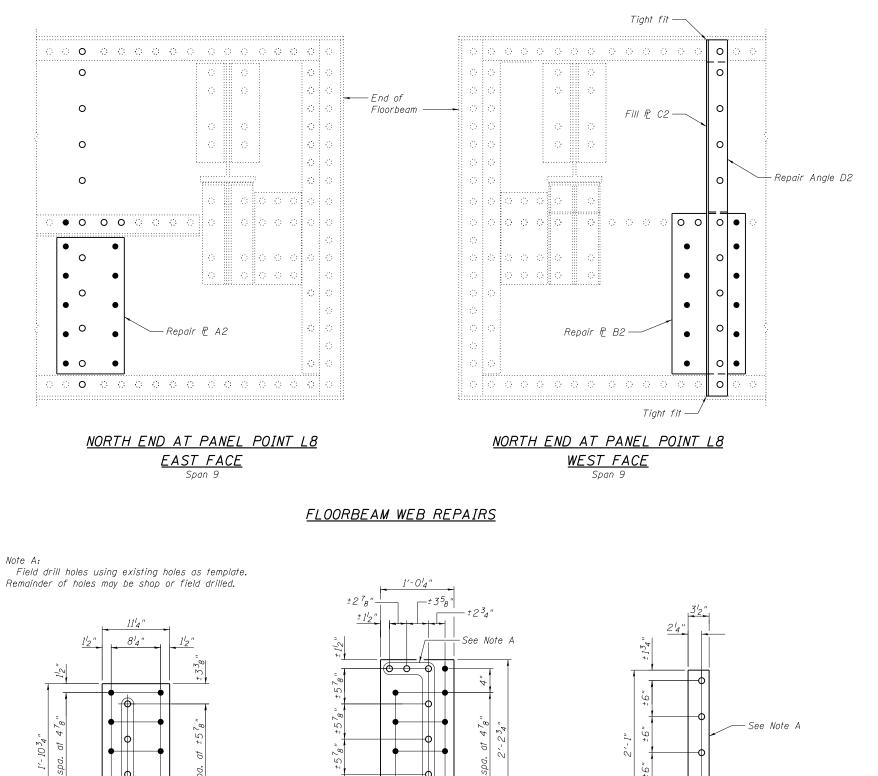
 PLOT SCALE =
 DRAWN PRC
 REVISED
 DEPARTMENT OF TRANSPORTATION
 DEPARTMENT OF TRANSPORTATION

S.N. 082-6001 MLK BRIDGE OV SHEET NO. S65 OF S13



Item	Unit	Total
Structural Steel Repair	Pound	600

/ WEB REPAIRS – 1 OVER MISSISSIPPI RIVER	F.A.P. RTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	799	1BR, DRS-2	ST. CLAIR	156	83
			CONTRACT	NO. 7	6B03
S138 SHEETS	ILLINOIS FED. AID PROJECT				





● �

±4¹4" ±7"

<u>REPAIR P A2</u>

₽ ³8" x 11¹4" x 1'-10³4"

See Note A

DESIGNED - PRC

CHECKED - CDB

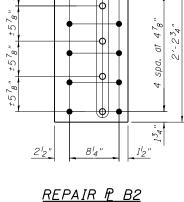
CHECKED - CDB

PRC

DRAWN

4

134"



P 916" x 1214" x 2'-234"

REVISED

REVISED

REVISED

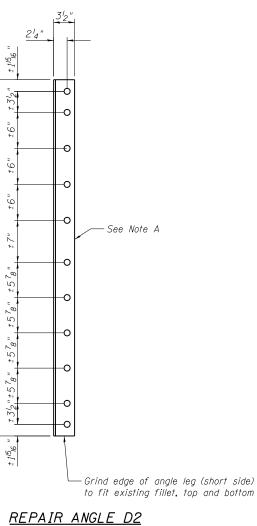
REVISED

<u>FILL PC2</u> ₽ ⁹₁₆" x 3¹₂" x 2'-1"

STATE OF ILLINOIS

DEPARTMENT OF TRANSPORTATION

MAIN SPANS FLOORBEAM WEB REPAIRS – 2	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
S.N. 082–6001 MLK BRIDGE OVER MISSISSIPPI RIVER	799	1BR, DRS-2	ST. CLAIR	156	84
3,14,002-0001 WILK DRIDGE OVER WII331331FFT RIVER			CONTRACT	NO. 7	6B03
SHEET NO. S66 OF S138 SHEETS	ILLINOIS FED. AID PROJECT				

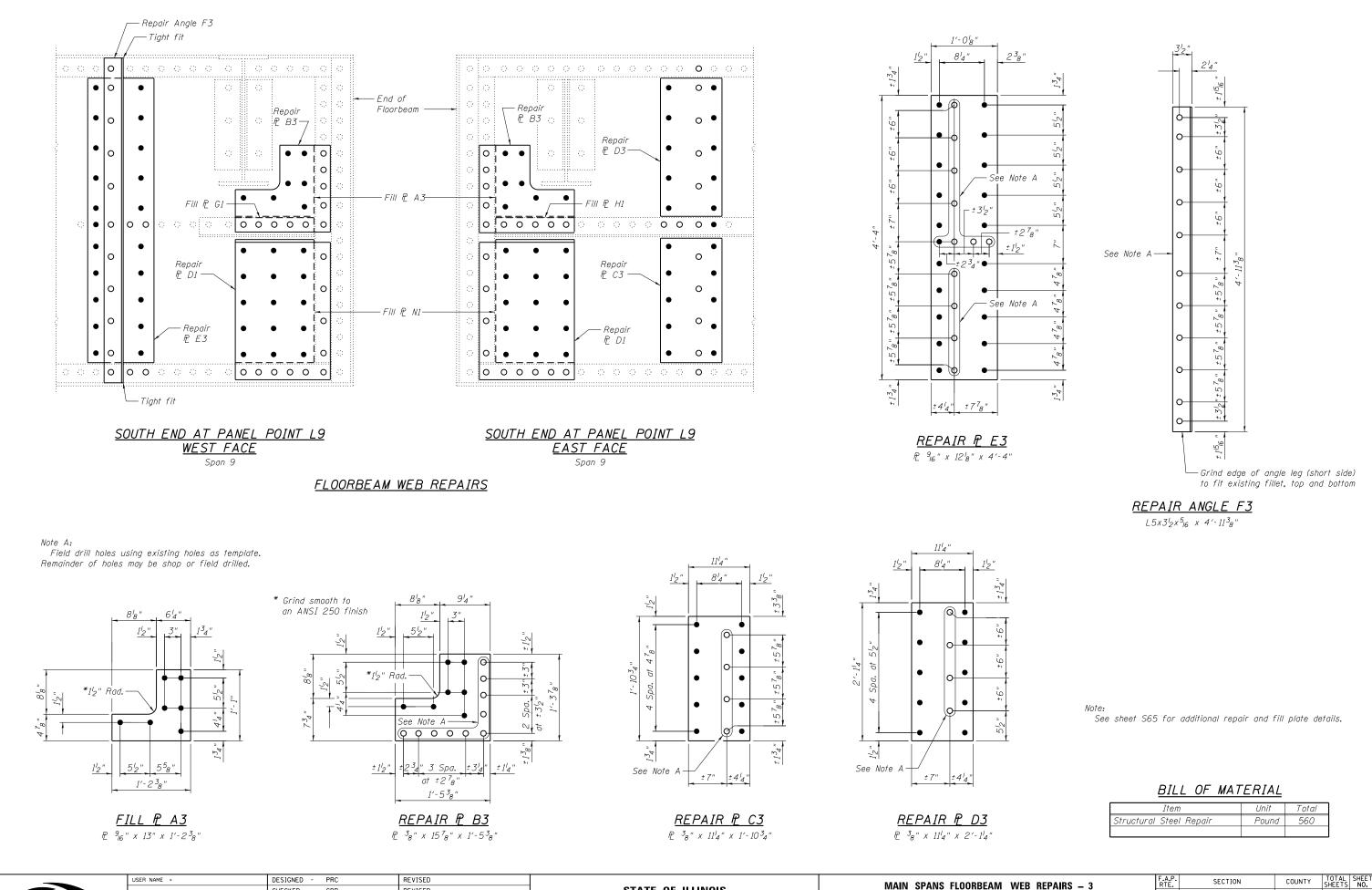




. 11³8"

L5x3′2x⁵16 x 4′-11³8″

Item	Unit	Total
Structural Steel Repair	Pound	160

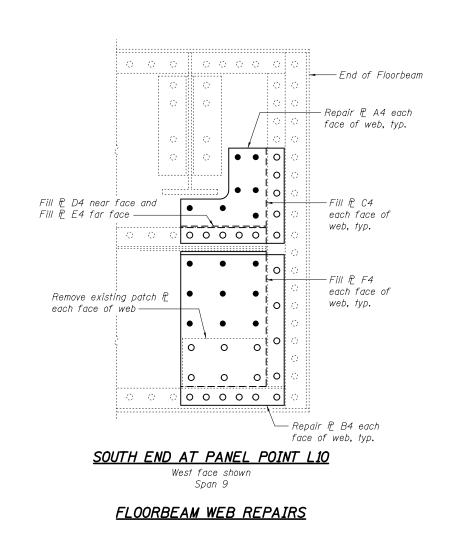


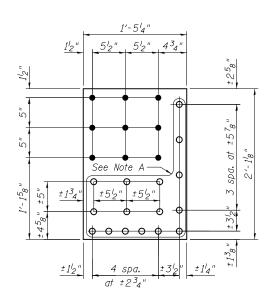
MODJESKI-MASTERS	USER NAME = PLOT SCALE =	DESIGNED - PRC CHECKED - CDB DRAWN - PRC	REVISED REVISED REVISED	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	MAIN SPANS FLO S.N. 082–6001 MLK B
Experience great bridges.	PLOT DATE = 05/02/2014	CHECKED - CDB	REVISED		SHEET NO.

 Top
 IBR. DRS-2
 ST. CLAIR
 156
 85

 CONTRACT NO. 76B03
 CONTRACT NO. 76B03

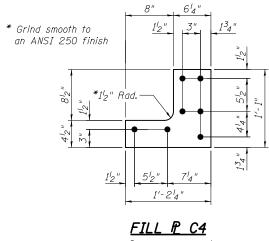
 NO. S67 OF S138 SHEETS
 ILLINOIS FED. AID PROJECT



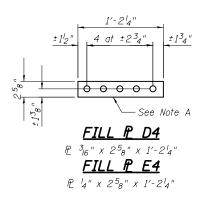


REPAIR P B4

₽ ³8" x 17¹4" x 2'-1¹8"

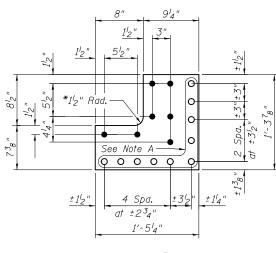


₽ ⁹16" x 13" x 1'-2¹4"



Note A:

Field drill holes using existing holes as template. Remainder of holes may be shop or field drilled.

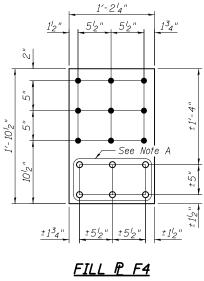


 REPAIR
 P
 A4

 P
 ³/₈" x 15⁷/₈" x 1'-5¹/₄"



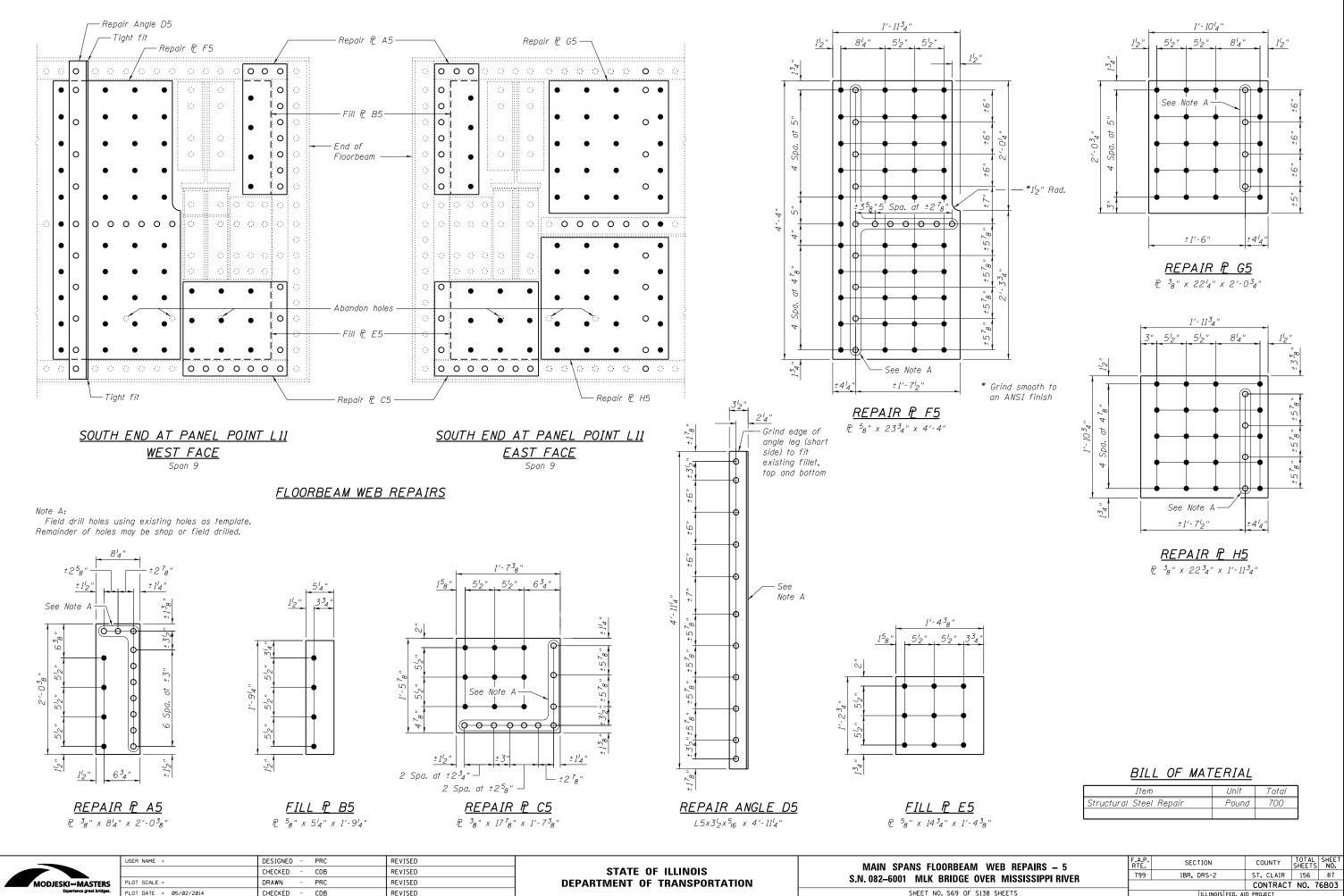
	USER NAME =	DESIGNED - PRC CHECKED - CDB	REVISED REVISED	STATE OF ILLINOIS	MAIN SPANS FLOORBEAM W
ESKIMMASTERS	PLOT SCALE =	DRAWN - PRC	REVISED	DEPARTMENT OF TRANSPORTATION	S.N. 082–6001 MLK BRIDGE OVE
Experience great bridges.	PLOT DATE = 03/20/2014	CHECKED - CDB	REVISED		SHEET NO. S68 OF S138



₽ ⁹₁₆" x 14¹₄" x 1'-10¹₂"

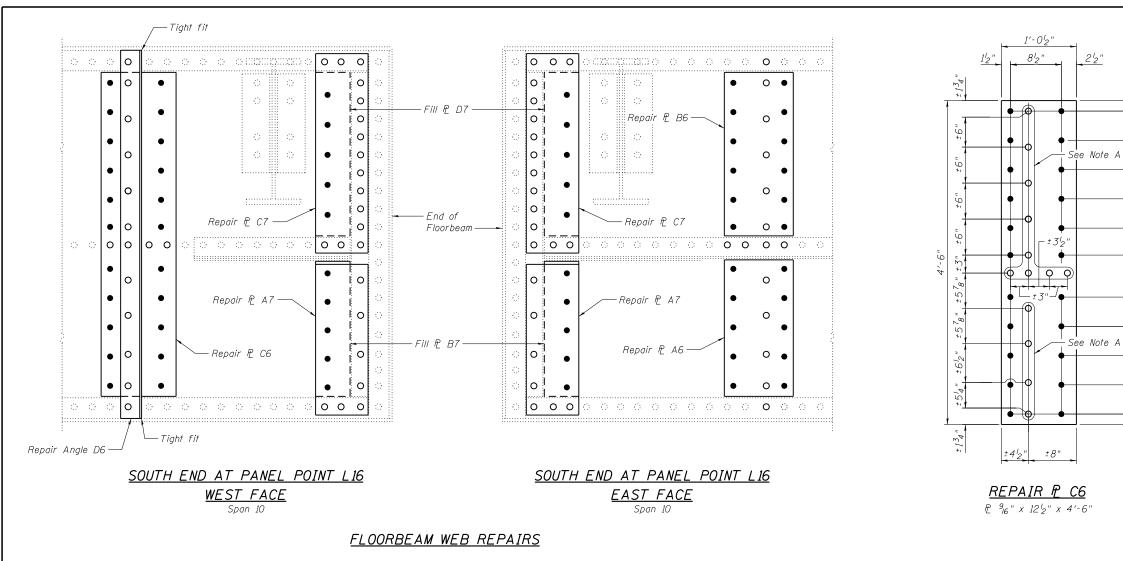
Item	Unit	Total
Structural Steel Repair	Pound	320

WEB REPAIRS – 4		SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VER MISSISSIPPI RIVER	799	1BR, DRS-2	ST. CLAIR	156	86
			CONTRACT	NO. 7	6B03
138 SHEETS		ILLINOIS FED. AI	D PROJECT		



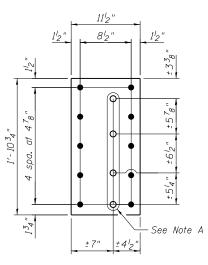
SHEET NO. S69 OF S138 SHEETS

ILLINOIS FED AID PROJECT

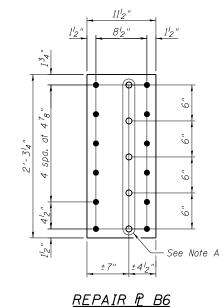


Note A:

Field drill holes using existing holes as template. Remainder of holes may be shop or field drilled.

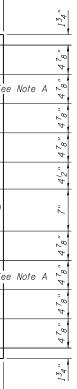


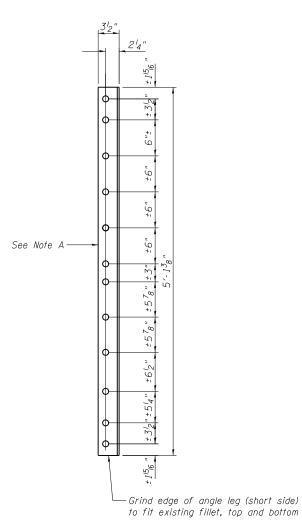
<u>REPAIR 🖻 A6</u> R ³8" x 11¹2" x 1'-10³4"



R 38" x 11'2" x 2'-3'4"

	USER NAME =	DESIGNED - PRC	REVISED		MAIN SPANS FLOORBEAM W
		CHECKED - CDB	REVISED	STATE OF ILLINOIS	
MODJESKI	PLOT SCALE =	DRAWN - PRC	REVISED	DEPARTMENT OF TRANSPORTATION	S.N. 082–6001 MLK BRIDGE OVER
Experience great bridges.	PLOT DATE = 05/02/2014	CHECKED - CDB	REVISED		SHEET NO. S70 OF S138





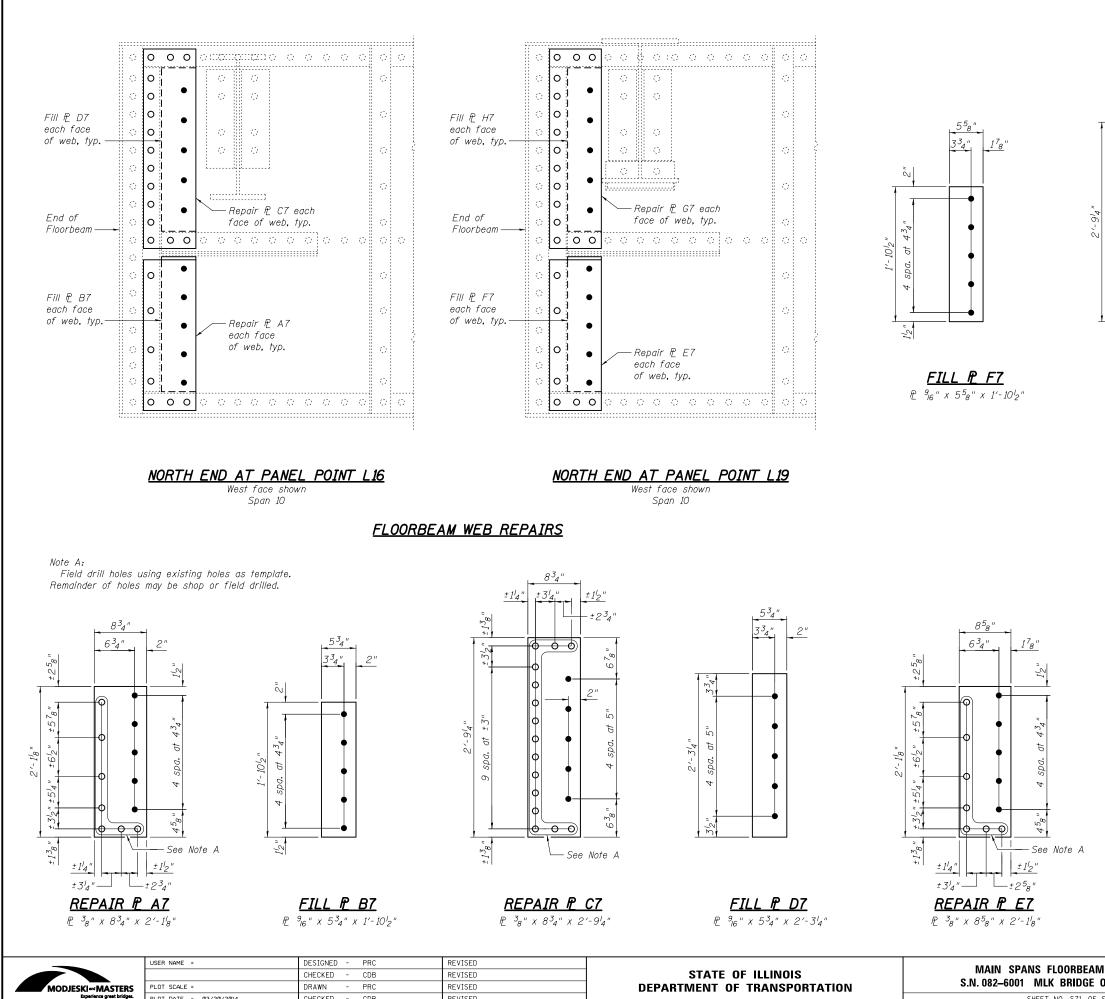
REPAIR ANGLE D6

L5x3¹2x⁵16 x 5'-1³8"

Note: See sheet S71 for additional repair and fill plate details.

Item	Unit	Total
Structural Steel Repair	Pound	480

WEB REPAIRS – 6 Ver Mississippi River		SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
		1BR, DRS-2	ST. CLAIR	156	88
			CONTRACT	NO. 7	6B03
138 SHEETS		ILLINOIS FED. AI	D PROJECT		

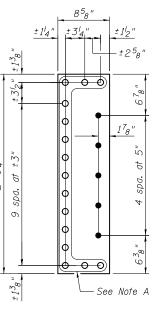


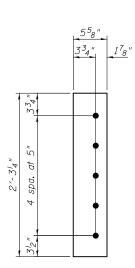
PLOT DATE = 03/20/2014

CHECKED - CDB

REVISED

SHEET NO. S71 OF



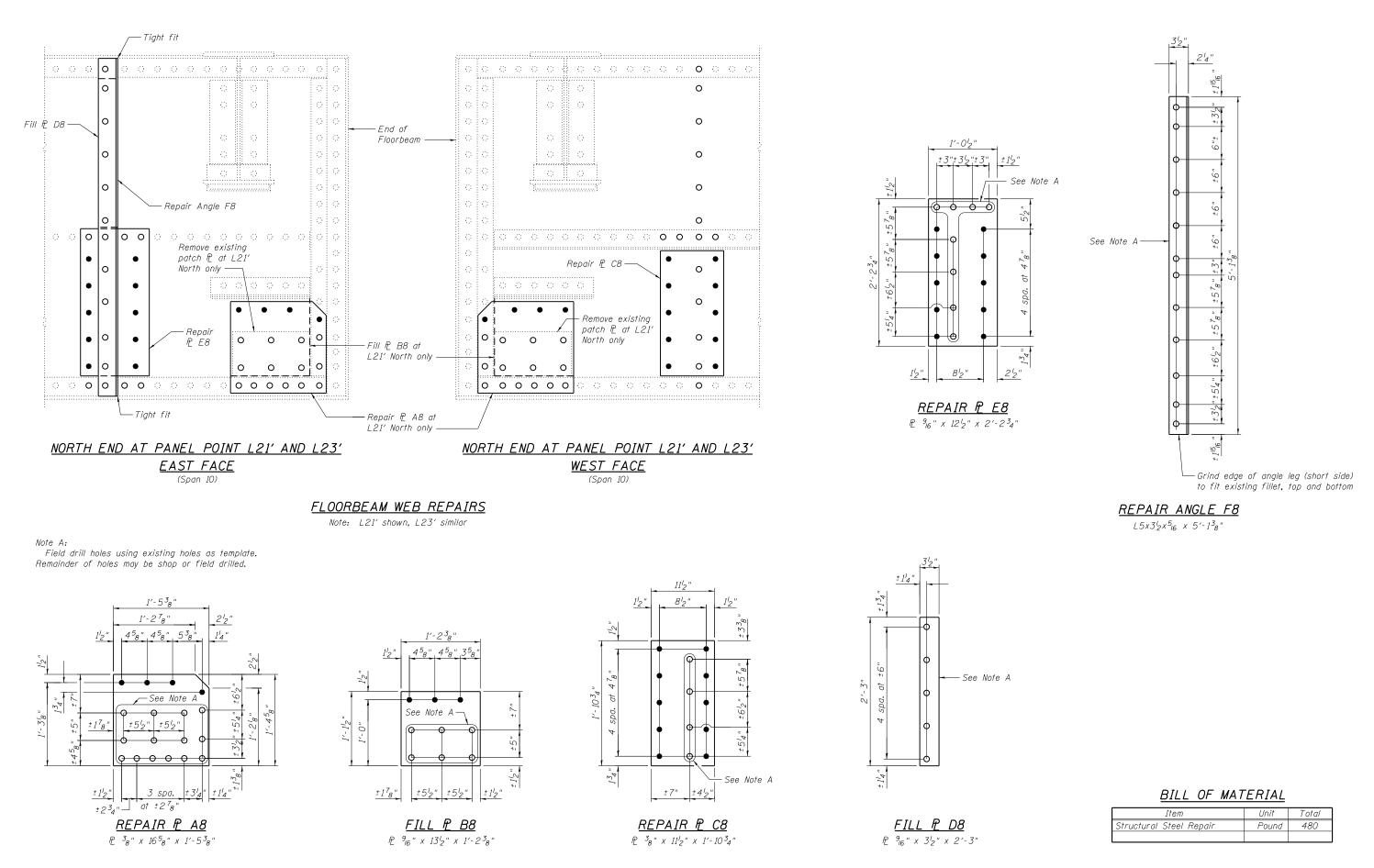


REPAIR P G7 R 38" x 858" x 2'-94'

FILL P H7 R 916" x 558" x 2'-34"

Item	Unit	Total
Structural Steel Repair	Pound	460

	-		-		
WEB REPAIRS – 7		SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
IVER MISSISSIPPI RIVER	799	1BR, DRS-2	ST. CLAIR	156	89
			CONTRACT	NO. 7	6B03
138 SHEETS		ILLINOIS FED. AI	D PROJECT		

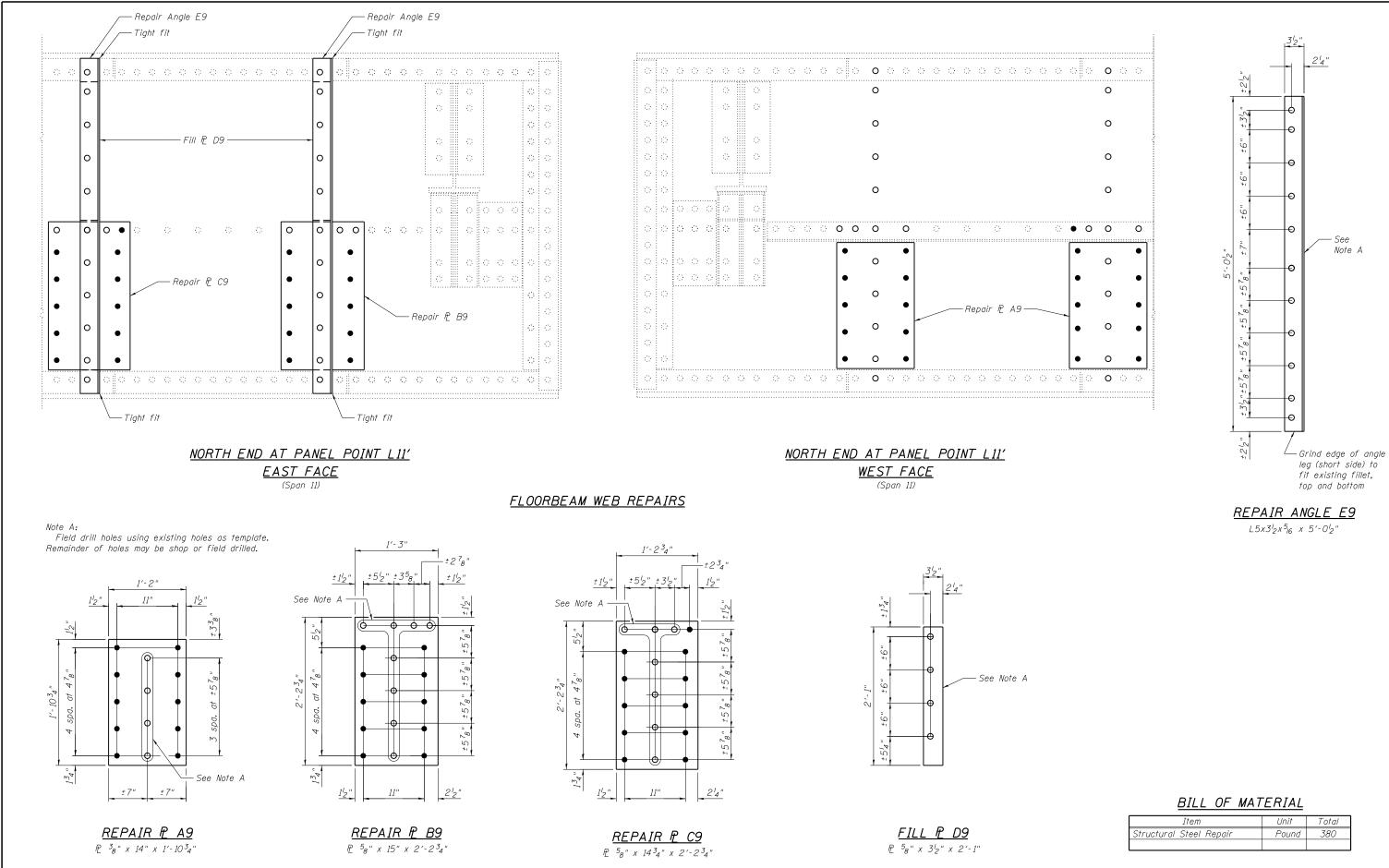


MODJESKI and MASTERS Experience great bridges.	

MASTERS	USER NAME = PLOT SCALE =	DESIGNED - PRC CHECKED - CDB DRAWN - PRC	REVISED REVISED REVISED	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	MAIN SPANS FLOORBEAM N S.N. 082–6001 MLK BRIDGE OVE
ience great bridges.	PLOT DATE = 05/02/2014	CHECKED - CDB	REVISED		SHEET NO. S72 OF S138

Item	Unit	Total
Structural Steel Repair	Pound	480

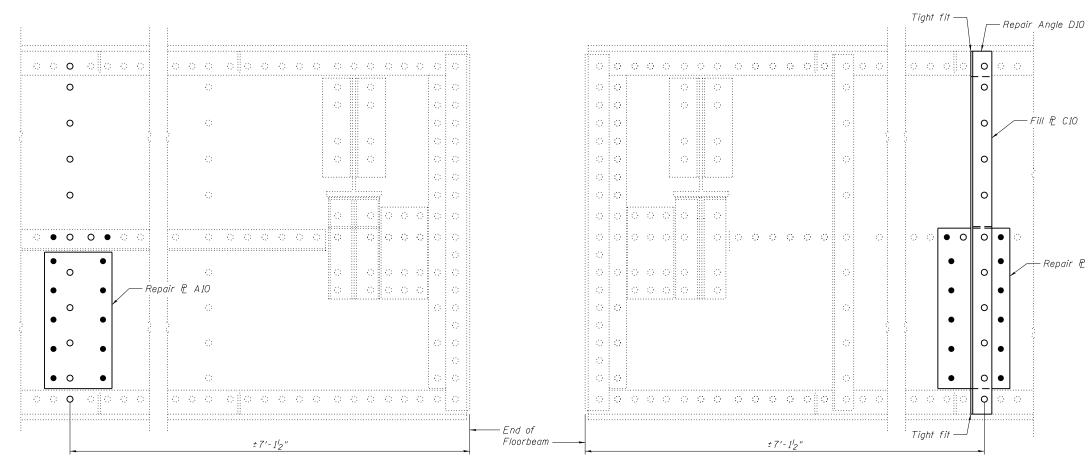
EAP				
WEB REPAIRS – 8	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VER MISSISSIPPI RIVER	1BR, DRS-2	ST. CLAIR	156	90
		CONTRACT	NO. 7	6B03
138 SHEETS	ILLINOIS FED. AI	D PROJECT		



USER NAME = DESIGNED -PRC REVISED MAIN SPANS FLOORBEAM STATE OF ILLINOIS CHECKED - CDB REVISED S.N. 082-6001 MLK BRIDGE 0 MODJESKI PLOT SCALE = DRAWN PRC REVISED **DEPARTMENT OF TRANSPORTATION** PLOT DATE = 05/02/2014 CHECKED -CDB SHEET NO. S73 OF S REVISED

Item	Unit	Total
Structural Steel Repair	Pound	380

WEB REPAIRS – 9		SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VER MISSISSIPPI RIVER	799	1BR, DRS-2	ST. CLAIR	156	91
VEN WIJJIJJIJIFFI NIVEN			CONTRACT	NO. 7	6B03
138 SHEETS		ILLINOIS FED. AI	D PROJECT		



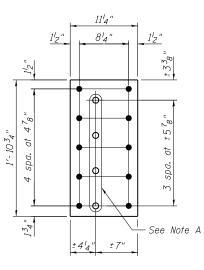
SOUTH END AT PANEL POINT LII' WEST FACE (Span 11)



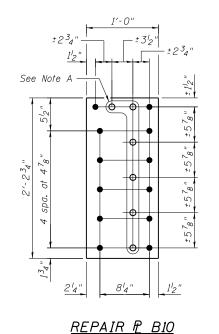


Note A:

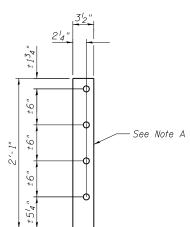
Field drill holes using existing holes as template. Remainder of holes may be shop or field drilled.



REPAIR P AIO ₽ ³8" x 11'4" x 1'-10³4"



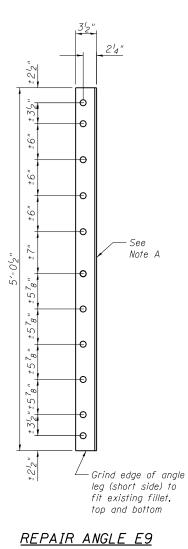
₽ ⁵8" x 12" x 2'-2³4"



<u>FILL PC 10</u> ₽ ⁵8" x 3'2" x 2'-1"

MODJESKI-MASTERS	USER NAME = PLOT SCALE =	DESIGNED - PRC CHECKED - CDB DRAWN - PRC	REVISED REVISED REVISED	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	MAIN SPANS FLOORBEAM W S.N. 082–6001 MLK BRIDGE OVER
Experience great bridges.	PLOT DATE = 05/02/2014	CHECKED - CDB	REVISED		SHEET NO. S74 OF S138

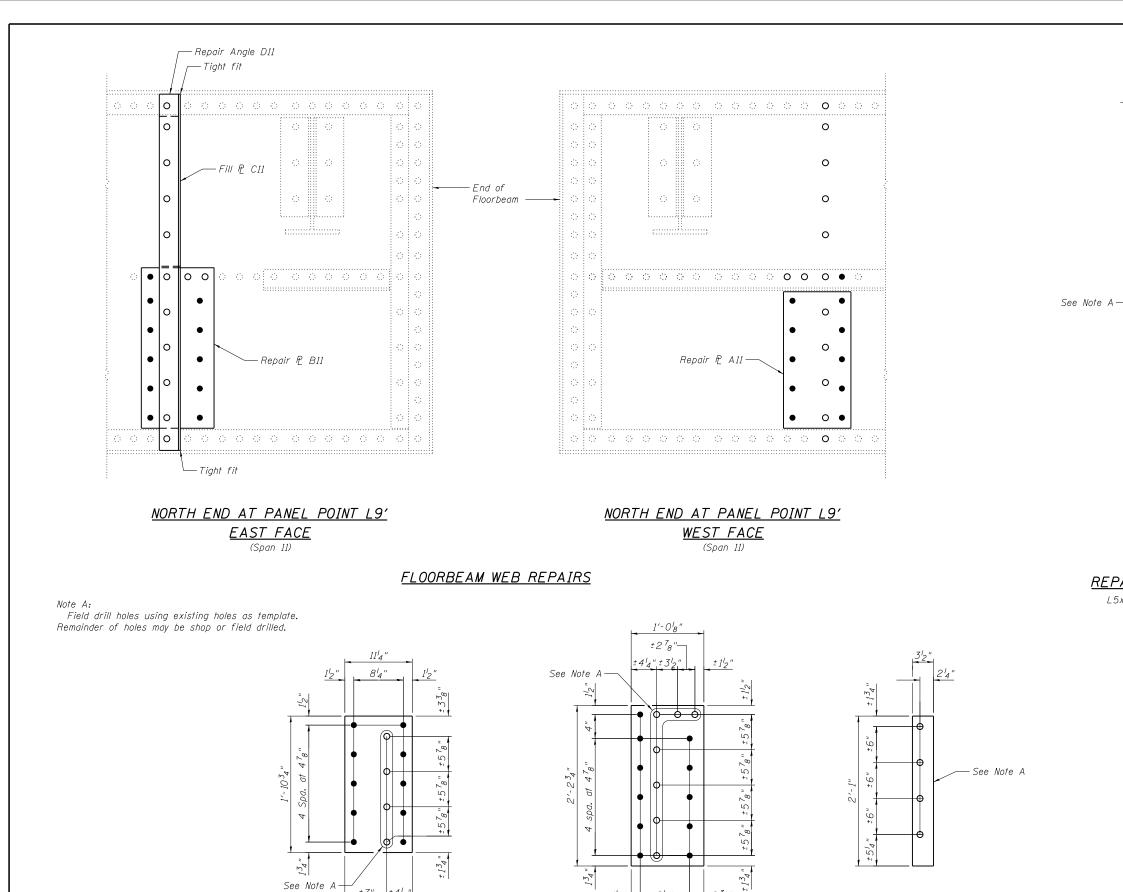
Repair 🦻 B10



L5x3¹2x⁵16 x 5'-0¹2"

Item	Unit	Total
Structural Steel Repair	Pound	170

WEB REPAIRS - 10		SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VER MISSISSIPPI RIVER	799	1BR, DRS-2	ST. CLAIR	156	92
VEN WIJJIJJIJIFFI RIVEN			CONTRACT	NO. 7	6B03
138 SHEETS	ILLINOIS FED. AID PROJECT				





PRC

CDB

DESIGNED - PRC

DRAWN

CHECKED -

CHECKED - CDB

′±7″_±4′₄″

REVISED

REVISED

REVISED

REVISED

<u>REPAIR P BII</u> R 916" x 12'8" x 2'-2³4"

<u>1'2"</u>

84"

238"

MAIN SPANS FLOORBEAM STATE OF ILLINOIS S.N. 082-6001 MLK BRIDGE 0 **DEPARTMENT OF TRANSPORTATION** SHEET NO. S75 OF S

<u>FILL PC11</u>

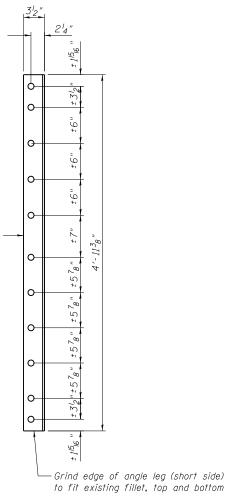
₽ ⁹₁₆" x 3¹₂" x 2'-1"



USER NAME =

PLOT SCALE =

PLOT DATE = 05/02/2014

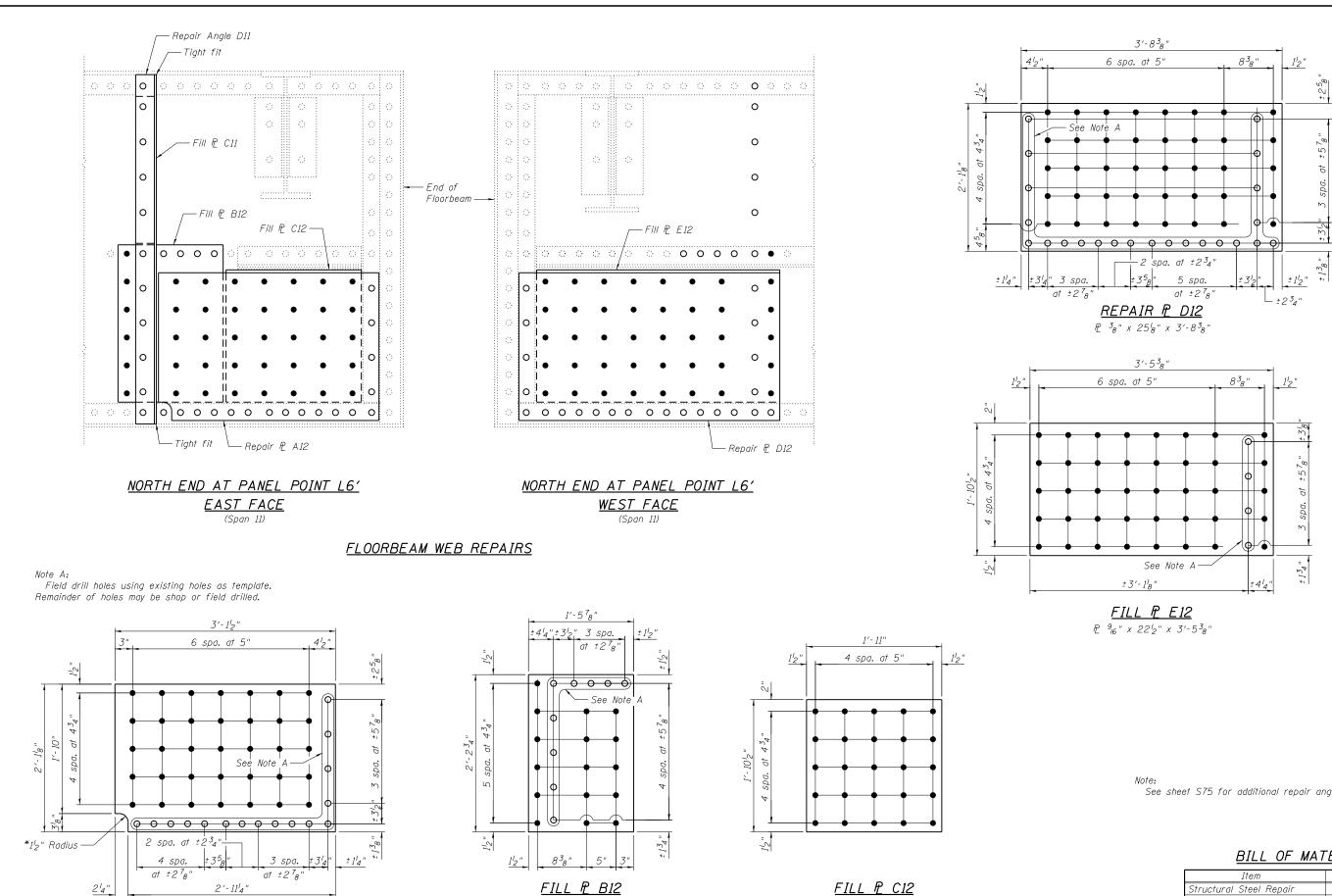




L5x3¹2x⁵16 x 4'-11³8"

Item	Unit	Total
Structural Steel Repair	Pound	160

I WEB REPAIRS – 11	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
OVER MISSISSIPPI RIVER		1BR, DRS-2	ST. CLAIR	156	93
			CONTRACT	NO. 7	6B03
S138 SHEETS		ILLINOIS FED. AI	D PROJECT		



^{₽ &}lt;sup>9</sup>16" x 22'2" x 1'-11"

USER NAME = DESIGNED -PRC REVISED MAIN SPANS FLOORBEAM STATE OF ILLINOIS CHECKED -CDB REVISED MODJESKI and MASTERS S.N. 082-6001 MLK BRIDGE C PLOT SCALE = DRAWN PRC REVISED **DEPARTMENT OF TRANSPORTATION** PLOT DATE = 05/02/2014 CHECKED -CDB REVISED SHEET NO. S76 OF S

REPAIR P A12

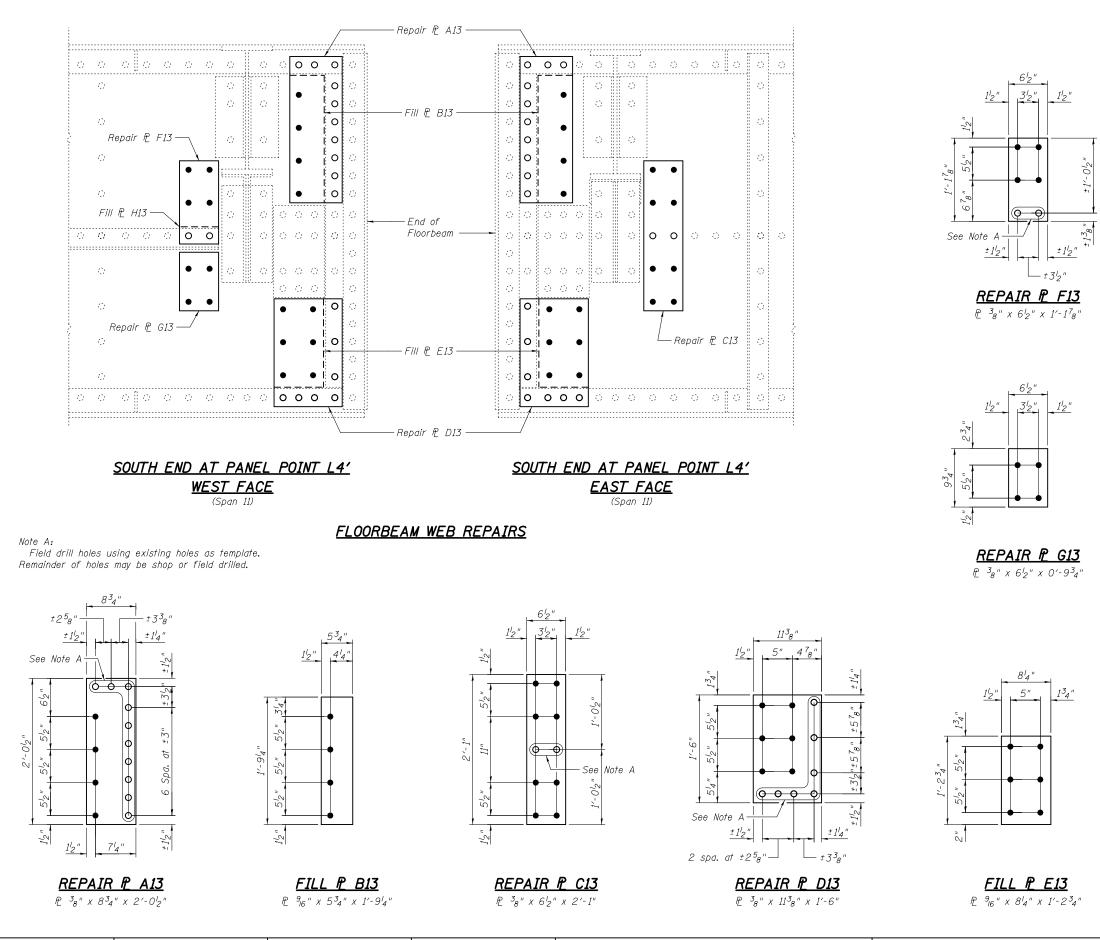
PC 38" x 2518" x 3'-11/2"

* Grind smooth to an ANSI 250 finish R 916" x 1778" x 2'-234"

See sheet S75 for additional repair angle and fill plate details.

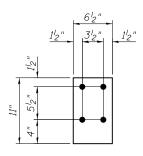
Item	Unit	Total
Structural Steel Repair	Pound	660

WEB REPAIRS – 12	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
IVER MISSISSIPPI RIVER	799	1BR, DRS-2	ST. CLAIR	156	94
			CONTRACT	NO. 7	6B03
3138 SHEETS		ILLINOIS FED. AI	D PROJECT		



MODJESKI and MASTERS



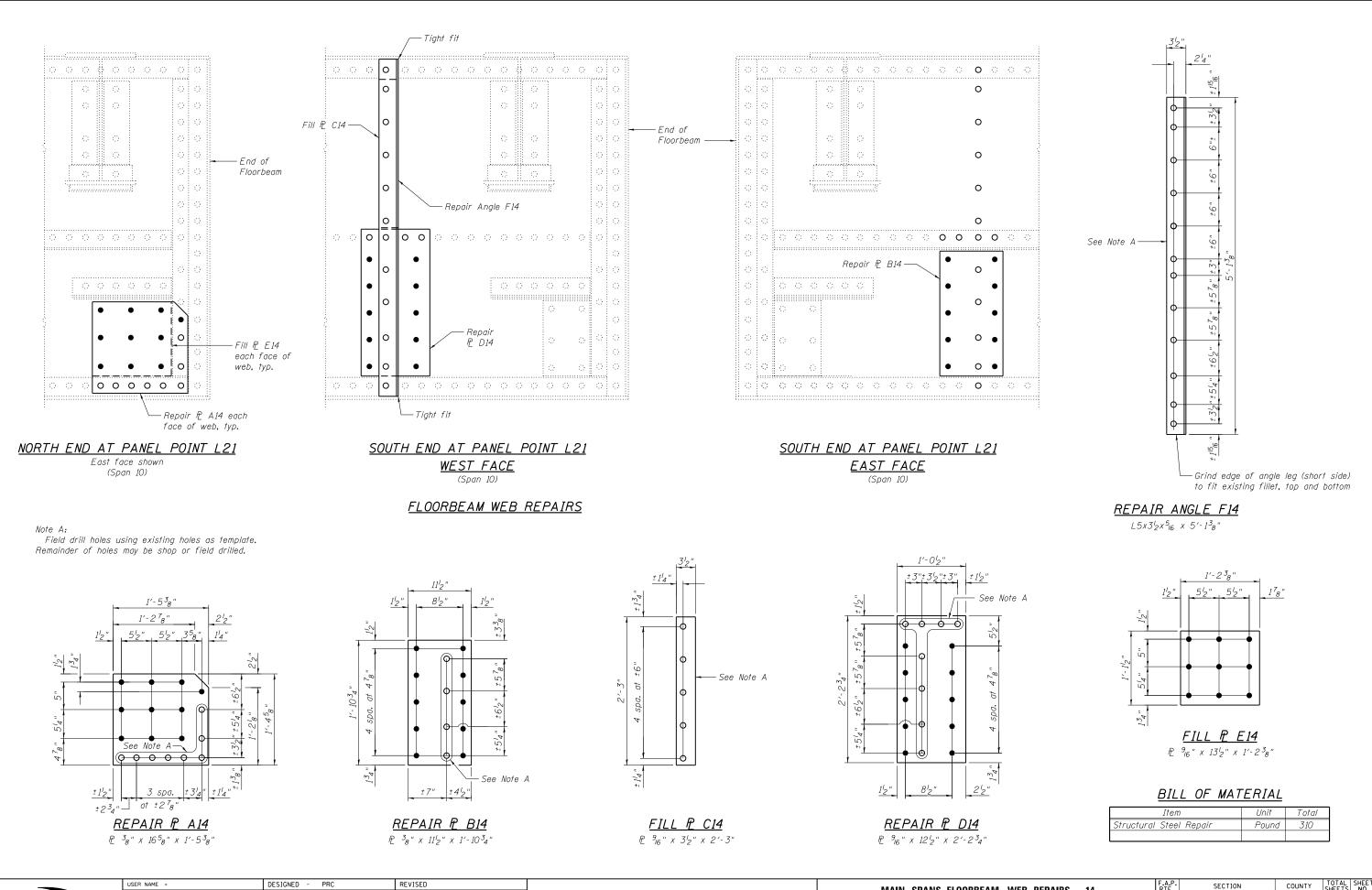


FILL P H13 ₽ ⁵16" x 6¹2" x 0'-11"

BILL OF MATERIAL

Item	Unit	Total
Structural Steel Repair	Pound	250

TOTAL SHEE SHEETS NO. A.P. RTE SECTION COUNTY ST. CLAIR 156 95 799 1BR, DRS-2 CONTRACT NO. 76B03

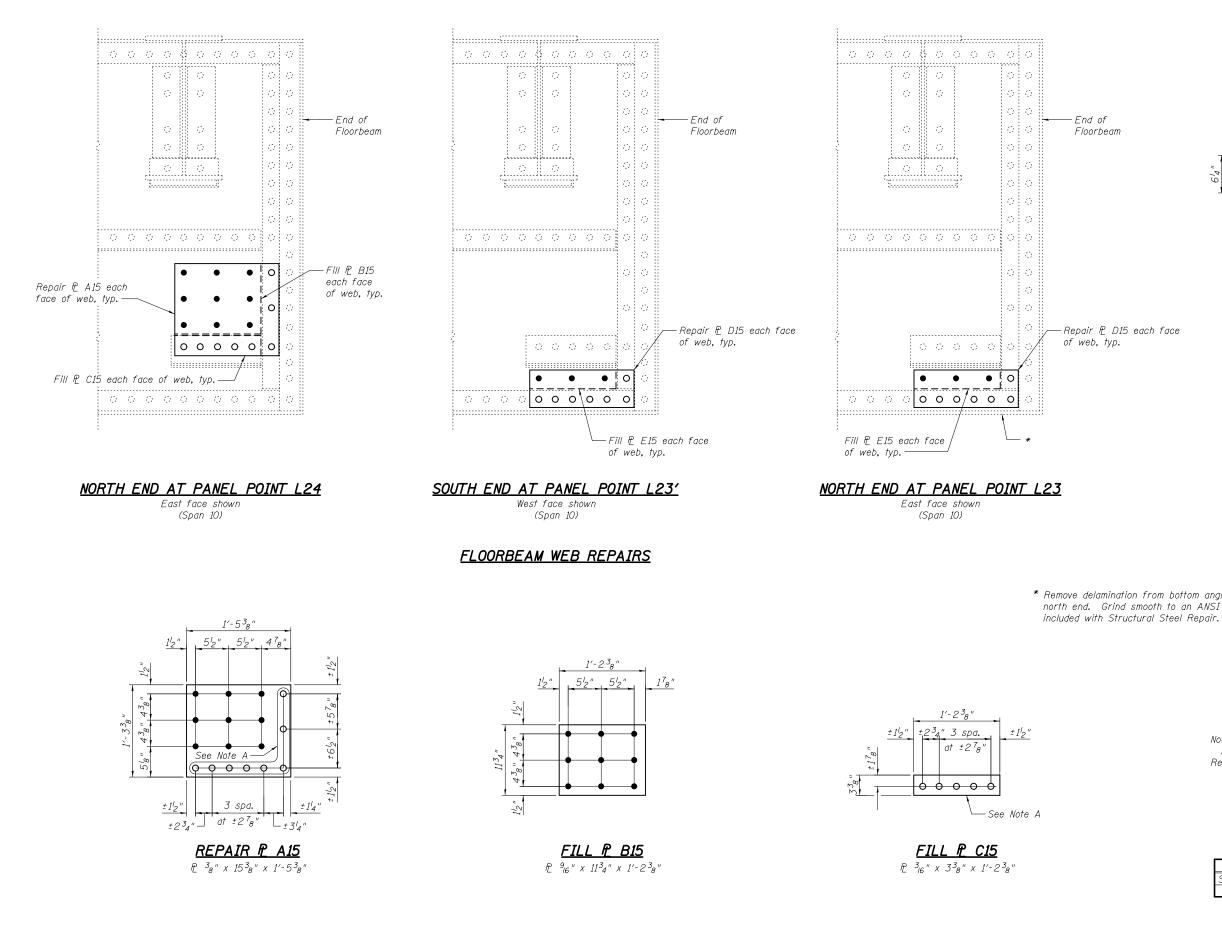




MASTERS	USER NAME = PLOT SCALE =	DESIGNED - PRC CHECKED - CDB DRAWN - PRC	REVISED REVISED REVISED	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	MAIN SPANS FLOORBEAM V S.N. 082–6001 MLK BRIDGE OVE
rience great bridges.	PLOT DATE = 05/02/2014	CHECKED - CDB	REVISED		SHEET NO. S78 OF S138

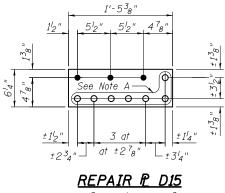
Item	Unit	Total
Structural Steel Repair	Pound	310

WEB REPAIRS - 14 IVER MISSISSIPPI RIVER	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	799	1BR, DRS-2	ST. CLAIR	156	96
	CONTRACT NO. 76B03				
138 SHEETS		ILLINOIS FED. AI	D PROJECT		

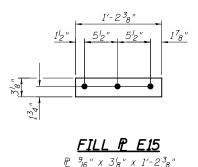


MODJESKI and MASTERS Experience great bridges.	

	USER NAME =	DESIGNED - PRC	REVISED		MAIN SPANS FLOORBEAM WI
		CHECKED - CDB	REVISED	STATE OF ILLINOIS	S.N. 082–6001 MLK BRIDGE OVER
ASTERS	PLOT SCALE =	DRAWN - PRC	REVISED	DEPARTMENT OF TRANSPORTATION	5.N. 082-6001 WILK BRIDGE OVER
e great bridges.	PLOT DATE = 03/20/2014	CHECKED - CDB	REVISED		SHEET NO. S79 OF S138



₽ ³8" x 6¹4" x 1'-5³8"

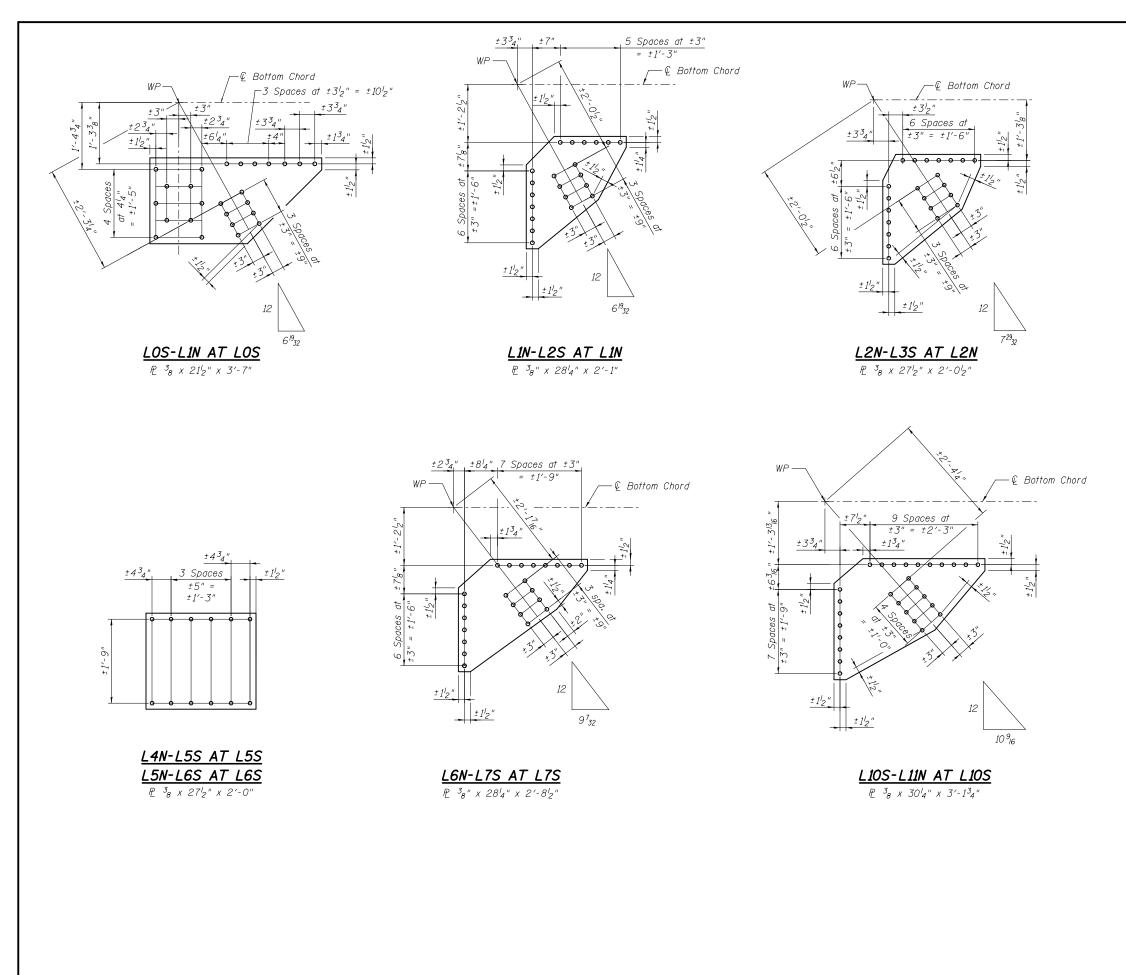


* Remove delamination from bottom angle at floorbeam 23, north end. Grind smooth to an ANSI 250 finish. Cost

> Note A: Field drill holes using existing holes as template. Remainder of holes may be shop or field drilled.

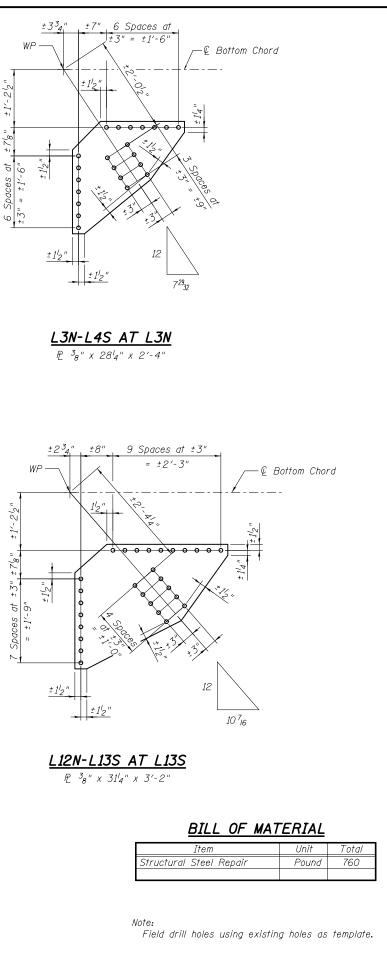
Item	Unit	Total
Structural Steel Repair	Pound	230

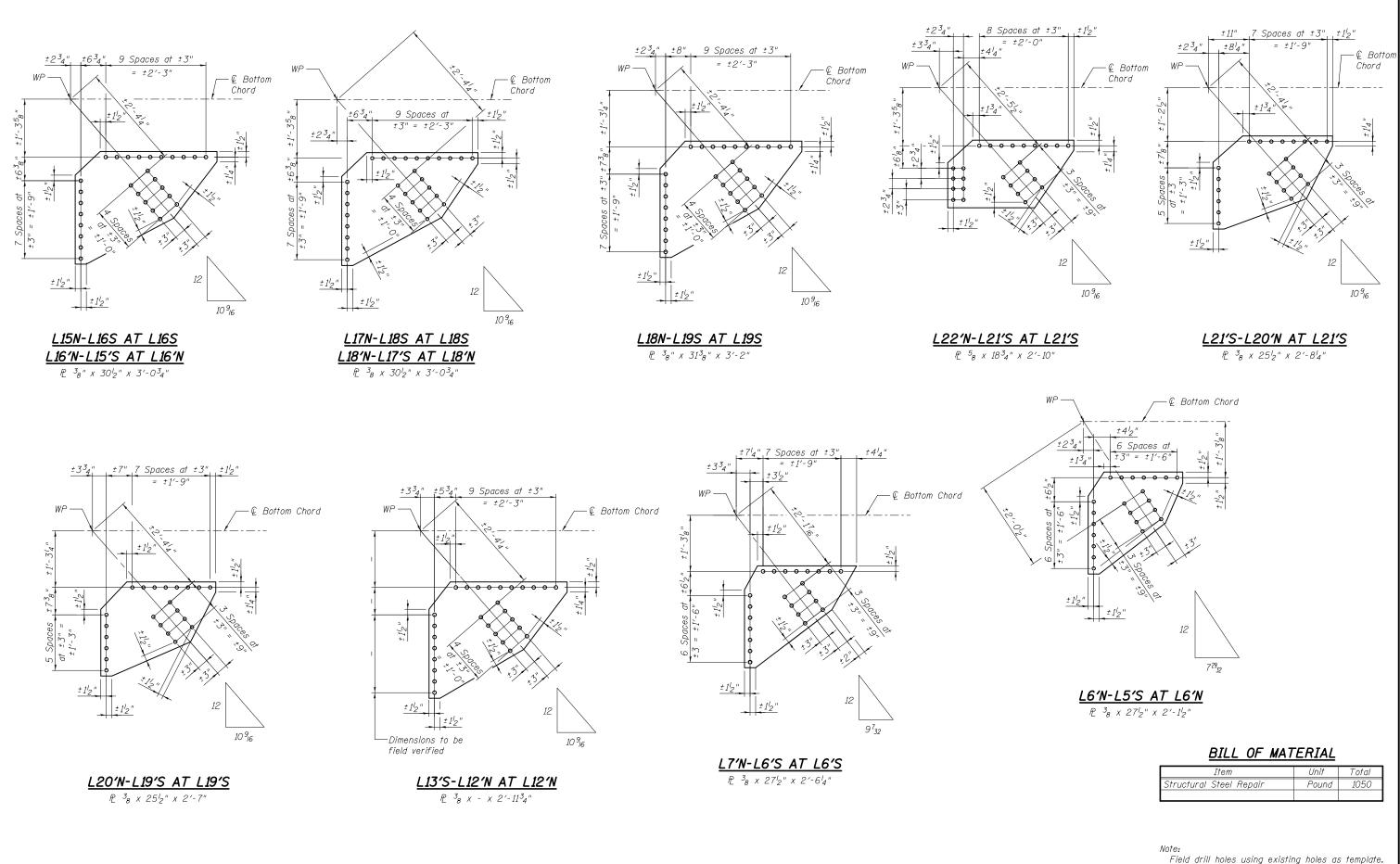
WEB REPAIRS – 15 VER MISSISSIPPI RIVER	F.A.P. RTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	799	1BR, DRS-2	ST. CLAIR	156	97
			CONTRACT	'NO.7	6B03
138 SHEETS		ILLINOIS FED. AI	D PROJECT		

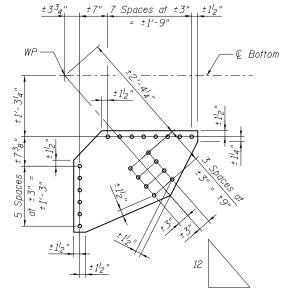


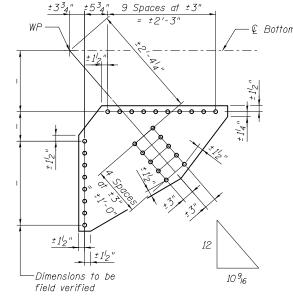
MODJESKI and MASTERS Experience great bridges.	

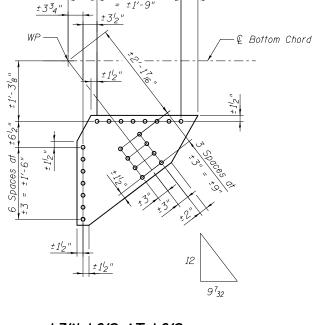
	USER NAME =		REVISED		MAIN SPAN BOTTOM LATERAL CONNECTION PLATE REPLACEMENTS - 1	F.A.P. RTE.	SECTION	COUNTY	FOTAL S	HEET NO.
ASTERS	PLOT SCALE =		REVISED REVISED	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	S.N. 082–6001 MLK BRIDGE OVER MISSISSIPPI RIVER	799	1BR, DRS-2	ST. CLAIR	156 NO 766	98
great bridges.	PLOT DATE = Ø3/20/2014	CHECKED - CDB	REVISED		SHEET NO. S80 OF S138 SHEETS		ILLINOIS FED.	AID PROJECT		503





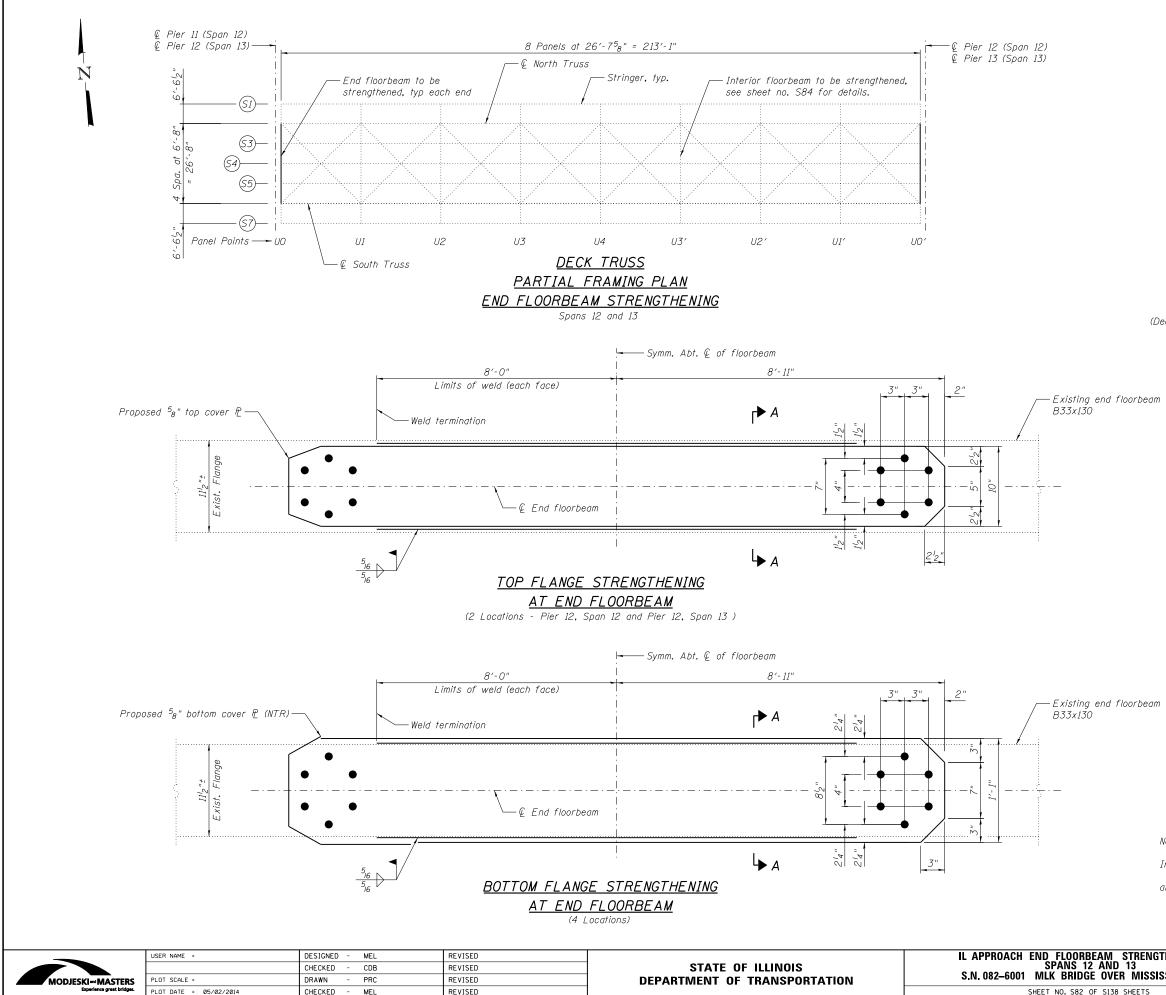


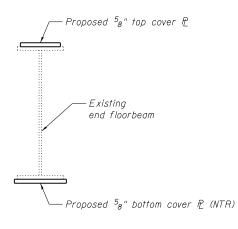




USER NAME = DESIGNED - CDB REVISED MAIN SPAN BOTTOM LATERAL CONNEC STATE OF ILLINOIS CHECKED - AEC REVISED S.N. 082-6001 MLK BRIDGE 0 MODJESKI and MASTERS PLOT SCALE = DRAWN AEC REVISED **DEPARTMENT OF TRANSPORTATION** PLOT DATE = 03/20/2014 CHECKED - CDB REVISED SHEET NO. S81 OF S

	_					
CTION PLATE REPLACEMENTS – 2	F.A.P. RTE	SECTION		COUNTY	TOTAL SHEETS	SHEET NO.
OVER MISSISSIPPI RIVER	799	1BR, DRS-2		ST. CLAIR	156	99
JVEN WISSISSIFFI NIVEN				CONTRACT	NO. 7	6B03
S138 SHEETS		ILLINOIS F	ED. AI	D PROJECT		





<u>SECTION A-A</u> (Deck and Stringers not shown for clarity.)

BILL OF MATERIAL

Item	Unit	Total
Structural Steel Repair	Pound	3900

Notes:

Load carrying components designated "NTR" shall confirm to the Impact Testing Requirement, Zone 2. For top cover plate details for end floorbeam at Pier 11, Span 12 and Pier 13, Span 13, see sheet S83.

M STRENGTHENING – 1 ND 13 DVER MISSISSIPPI RIVER	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	799	1BR, DRS-2	ST. CLAIR	156	100
			CONTRACT	NO. 7	6B03
S138 SHEETS		ILLINOIS FED. A	D PROJECT		
		ILLINOIS I LOI A	DINOCECI		