03-04-2016 LETTING ITEM 019

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
669	(103B)I-7	(*)	180	1
	ILLINOIS	CONTRACT NO. 68A93		

(*) PEORIA / TAZEWELL

D-94-039-12

* 180+8 = 188 TOTAL SHEETS

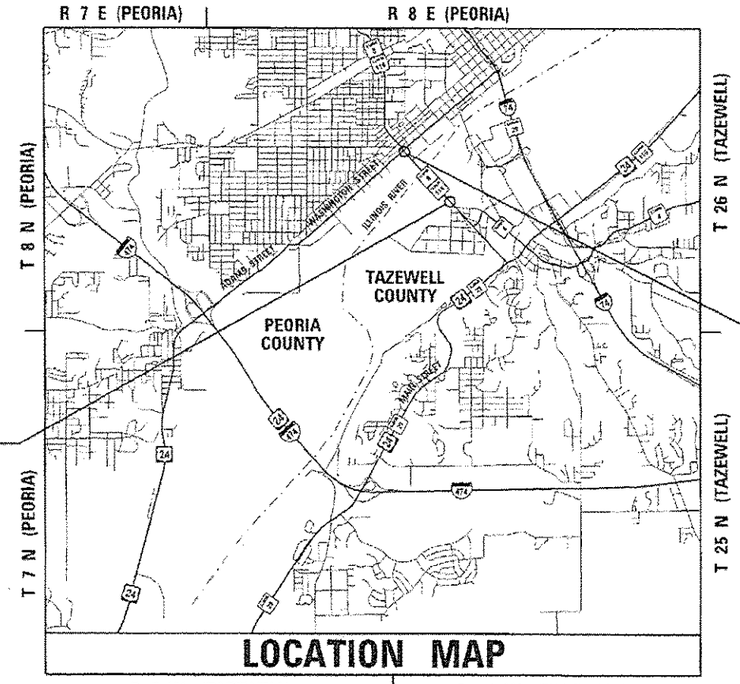
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS

PROPOSED
HIGHWAY PLANS

F.A.P. ROUTE 669 (IL 8 / IL 116)
SECTION (103B)I-7
PROJECT NO. ACNHPP-0669(037)
TYPE OF IMPROVEMENT: BRIDGE REPAIRS
PEORIA / TAZEWELL COUNTIES

C-94-062-12

LOCATION OF SECTION INDICATED THUS: ▬



LOCATION MAP

APPROXIMATE SCALE: 1" = 0.75 MILES

INDEX OF SHEETS

SEE SHEET 2 FOR "INDEX OF SHEETS"

HIGHWAY STANDARDS

SEE SHEET 2 FOR "HIGHWAY STANDARDS"

TOWNSHIP: WEST PEORIA / FON DU LAC
SECTIONS: 16 / 30 & 32

DESCRIPTION OF IMPROVEMENT

IMPROVEMENTS CONSIST OF STEEL TRUSS REPAIRS, EXPANSION JOINT REPLACEMENT, PARAPET REPAIRS, AND OTHER MISCELLANEOUS REPAIRS TO: STRUCTURE NO: 090-0030

PROJECT BEGINS: STA 97+37.00
IMPROVEMENT BEGINS: STA 0+12.08
(WEST ABUTMENT S.N. 090-0030)
STATION EQUATION:
STA 111+27.12 BK = STA 0+00.00 AH

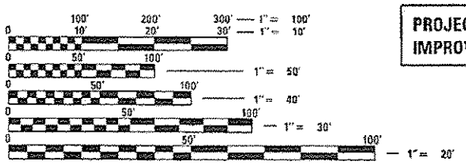
PROJECT ENDS: STA 74+43.00
IMPROVEMENT ENDS: STA 55+18.50

DESIGN DESIGNATION
IL 8 /IL 116: 12,400(600)
OTHER PRINCIPAL ARTERIAL

PREPARED BY:

MODJESKI and MASTERS
Experience great bridges.
#4 SUNSET HILLS PROFESSIONAL CENTER, EDWARDSVILLE, IL 62025
PHONE (618) 659-9102
PROJECT MANAGER:
RACHEL L. MERTZ, P.E.
www.modjeski.com

QUIGG ENGINEERING INC
2351 SOUTH DIRKSEN PARKWAY
SPRINGFIELD, ILLINOIS 62703
(217) 670-0563 (P) / 217-679-2204 (F)
PROJECT MANAGER:
MICHAEL C. VAIL, P.E.
www.quiggengineering.com



FULL SIZE PLANS HAVE BEEN PREPARED USING STANDARD ENGINEERING SCALES. REDUCED SIZED PLANS WILL NOT CONFORM TO STANDARD SCALES. IN MAKING MEASUREMENTS ON REDUCED PLANS, THE ABOVE SCALES MAY BE USED.

CALL J.U.L.I.E. (JOINT UTILITY LOCATING INFORMATION FOR EXCAVATORS)
48 Hours (2 working days) Before You Dig.
TOLL FREE: 1 (800) 892-0123 OR 811

PROJECT LENGTH

IMPROVEMENT LENGTH = 5,506.42 FEET = 1.043 MILES
PROJECT LENGTH = 8,833.12 FEET = 1.673 MILES

PROJECT ENGINEER: CHRISTOPHER MAUSHARD (309) 671-3453

CATALOG NO. 034778-00D

CONTRACT NO. 68A93

LICENSED PROFESSIONAL ENGINEER
MICHAEL C. VAIL
062-049256
STATE OF ILLINOIS

Michael C. Vail 10/5/2015
MICHAEL C. VAIL ILLINOIS P.E. 062.049256 DATE
EXPIRES 11/30/2015

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS

SUBMITTED October 13 2015
Ronda A. Larson
DEPUTY DIRECTOR OF HIGHWAYS, REGION ENGINEER
Dec 4 2015
Glen D. Barancelli P.E. /a
actg ENGINEER OF DESIGN AND ENVIRONMENT
Dec 4 2015
Omer Osman P.E. /a
DIRECTOR OF HIGHWAYS, CHIEF ENGINEER

PRINTED BY THE AUTHORITY OF THE STATE OF ILLINOIS

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IDOT HIGHWAY STANDARDS

STD NO.	DESCRIPTION
000001–06	STANDARD SYMBOLS, ABBREVIATIONS AND PATTERNS
001001–02	AREAS OF REINFORCEMENT BARS
001006	DECIMAL OF AN INCH AND OF A FOOT
420701–02	PAVEMENT FABRIC
606301–04	PC CONCRETE ISLANDS AND MEDIANS
635001–01	DELINEATORS
664001–02	CHAIN LINK FENCE
701006–05	OFF–ROAD OPERATIONS, 2L, 2W, 15' (4.5 M) TO 24" (600 MM) FROM PAVEMENT EDGE
701101–04	OFF–ROAD OPERATIONS, MULTILANE, 15' (4.5 M) TO 24" (600 MM) FROM PAVEMENT EDGE
701411–09	LANE CLOSURE, MULTILANE, AT ENTRANCE OR EXIT RAMP, FOR SPEEDS ≥ 45 MPH
701421–07	LANE CLOSURE, MULTILANE, DAY OPERATIONS ONLY, FOR SPEEDS ≥ 45 MPH TO 55 MPH
701426–07	LANE CLOSURE, MULTILANE, INTERMITTENT OR MOVING OPERATION, FOR SPEEDS ≥ 45 MPH
701451–03	RAMP CLOSURE FREEWAY/EXPRESSWAY
701501–06	URBAN LANE CLOSURE, 2L, 2W, UNDIVIDED
701601–09	URBAN LANE CLOSURE, MULTILANE, 1W OR 2W WITH NONTRAVERSABLE MEDIAN
701602–07	URBAN LANE CLOSURE, MULTILANE, 2W WITH BIDIRECTIONAL LEFT TURN LANE
701701–09	URBAN LANE CLOSURE, MULTILANE INTERSECTION
701901–04	TRAFFIC CONTROL DEVICES
704001–07	TEMPORARY CONCRETE BARRIER
720001–01	SIGN PANEL MOUNTING DETAILS
720006–04	SIGN PANEL ERECTION DETAILS
720011–01	METAL POSTS FOR SIGNS, MARKERS AND DELINEATORS
720021–02	SIGN PANELS, EXTRUDED ALUMINUM TYPE
728001–01	TELESCOPING STEEL SIGN SUPPORT
729001–01	APPLICATIONS OF TYPES A AND B METAL POSTS (FOR SIGNS & MARKERS)
780001–05	TYPICAL PAVEMENT MARKINGS
781001–03	TYPICAL APPLICATIONS RAISED REFLECTIVE PAVEMENT MARKERS
812001	RACEWAY EMBEDDED IN STRUCTURE
821101-01	LUMINAIRE WIRING DIAGRAM
830006-03	LIGHT POLE ALUMINUM DAVIT ARM

* INCLUDES 179 A

REV.

(*) PEORIA / TAZEWELL

QUIGG ENGINEERING INC

USER NAME = rgoertz	DESIGNED - RG	REVISED -	
D468A93-sht-Index.dgn	DRAWN - RG	REVISED -	
PLOT SCALE = 40.0000 ' / in.	CHECKED - MCV	REVISED -	
PLOT DATE = 10/05/2015	DATE - 10/02/2015	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

INDEX OF SHEETS AND IDOT HIGHWAY STANDARDS

SCALE: | SHEET NO. OF SHEETS | STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
669	(10381)-7	(*)	180	2
		CONTRACT NO. 68A93		
	ILLINOIS FED. AID PROJECT			

DISTRICT GENERAL NOTES

AVAILABILITY OF ELECTRONIC FILES
MICROSTATION FILES OF THIS PROJECT WILL BE MADE AVAILABLE TO THE CONTRACTOR AFTER CONTRACT AWARD. IF THERE IS A CONFLICT BETWEEN THE ELECTRONIC FILES AND THE PRINTED CONTRACT PLANS AND DOCUMENTS, THE PRINTED CONTRACT PLANS AND DOCUMENTS SHALL TAKE PRECEDENCE OVER THE ELECTRONIC FILES. THE CONTRACTOR SHALL ACCEPT ALL RISK ASSOCIATED WITH USING THE ELECTRONIC FILES AND SHALL HOLD THE DEPARTMENT HARMLESS FOR ANY ERRORS OR OMISSIONS IN THE ELECTRONIC FILES AND THE DATA CONTAINED THEREIN. ERRORS OR DELAYS RESULTING FROM THE USE OF THE ELECTRONIC FILES BY THE CONTRACTOR SHALL NOT RESULT IN AN EXTENSION OF TIME FOR ANY INTERIM OR FINAL COMPLETION DATE OR SHALL NOT BE CONSIDERED CAUSE FOR ADDITIONAL COMPENSATION. THE CONTRACTOR SHALL NOT USE, SHARE, OR DISTRIBUTE THESE ELECTRONIC FILES EXCEPT FOR THE PURPOSE OF CONSTRUCTING THIS CONTRACT. ANY CLAIMS BY THIRD PARTIES DUE TO USE OR ERRORS SHALL BE THE SOLE RESPONSIBILITY OF THE CONTRACTOR. THE CONTRACTOR SHALL INCLUDE THIS DISCLAIMER WITH THE TRANSFER OF THESE ELECTRONIC FILES TO ANY OTHER PARTIES AND SHALL INCLUDE APPROPRIATE LANGUAGE BINDING THEM TO SIMILAR RESPONSIBILITIES.

PLAN ELEVATIONS - U.S.G.S. MEAN SEA LEVEL DATUM
ALL ELEVATIONS SHOWN ON THE PLANS ARE ESTABLISHED FROM U.S.G.S. MEAN SEA LEVEL DATUM.

PROPERTY OWNER ACCESS REQUIREMENT
ACCESS MUST BE MAINTAINED TO ALL EXISTING PROPERTIES DURING CONSTRUCTION PER ARTICLE 107.09 UNLESS ARRANGEMENTS ARE MADE IN WRITING BY THE CONTRACTOR WITH THE PROPERTY OWNERS WITH A COPY TO THE ENGINEER FOR SHORT-TERM CLOSURES.

CRITICAL PATH WORK SCHEDULE REQUIREMENT
THE CONTRACTOR WILL SUBMIT TO THE ENGINEER A SATISFACTORY PROGRESS SCHEDULE AND CRITICAL PATH SCHEDULE WHICH SHALL SHOW THE PROPOSED SEQUENCE OF WORK AT THE TIME OF THE PRE-CONSTRUCTION CONFERENCE.

ENVIRONMENTAL REVIEWS
PRIOR TO THE USE OF ANY PROPOSED BORROW AREAS, USE AREAS (TEMPORARY ACCESS ROADS, DETOURS, RUN-AROUNDS, ETC.) AND/OR WASTE AREAS, THE CONTRACTOR SHALL FILE THE REQUIRED ENVIRONMENTAL RESOURCE REQUEST SURVEYS ACCORDING TO SECTION 107.22 OF THE STANDARD SPECIFICATIONS. THESE SURVEYS ARE REQUIRED IN ORDER FOR THE DEPARTMENT TO CONDUCT CULTURAL AND BIOLOGICAL RESOURCE SURVEYS FOR THE PROPOSED SITE.

THE REQUIRED ENVIRONMENTAL RESOURCE DOCUMENTATION SHALL INCLUDE THE FOLLOWING:
- BDE FORM 2289 (CULTURAL AND NATURAL RESOURCES REVIEW OF BORROW AREAS)
- BDE FORM 2290 (WASTE/USE AREA REVIEW)
- A LOCATION MAP SHOWING THE SIZE LIMITS AND LOCATION OF THE USE AREA
- COLOR PHOTOGRAPHS DEPICTING THE USE AREA
- BORROW AREA ENTRY AGREEMENT FORM - D4 P10101

PRIOR TO ANY WASTE MATERIALS BEING REMOVED FROM THE CONSTRUCTION SITE THE REQUIRED ENVIRONMENTAL RESOURCE SURVEYS SHALL BE OBTAINED AND FILED BY THE CONTRACTOR. EXCESS WASTE PRODUCTS REMOVED FROM THE CONSTRUCTION SITE SHALL BE DISPOSED OF AS REQUIRED IN SECTION 202.03 OF THE STANDARD SPECIFICATIONS.

ANY PROTRUDING METAL BARS SHALL BE REMOVED PRIOR TO THE DISPOSAL OF BROKEN CONCRETE AT APPROVED DISPOSAL SITES.

PLEASE NOTE THAT A MINIMUM OF FOUR WEEKS SHALL BE ALLOWED FOR THE DISTRICT TO OBTAIN THE REQUIRED WASTE SITE ENVIRONMENTAL CLEARANCES AND SIX WEEKS FOR THE REQUIRED BORROW SITE ENVIRONMENTAL CLEARANCES.

ENGINEER'S FIELD OFFICE
ADD THE FOLLOWING SENTENCE TO THE END OF PARAGRAPH 670.02 (I) AND 670.04 (E):
ALL OF THE TELEPHONE LINES PROVIDED SHALL HAVE UNPUBLISHED NUMBERS.

SIGNING
SIGN LOCATIONS MAY VARY FROM THE STATIONS SHOWN ON THE PLANS IN ACCORDANCE WITH DIRECTIONS FROM THE ENGINEER AT THE TIME OF CONSTRUCTION. SIGN LOCATIONS MAY BE ADJUSTED IN THE FIELD TO AVOID ANY FOUND UTILITIES.

ALL WOOD POST LOCATIONS SHALL BE VERIFIED WITH THE BUREAU OF OPERATIONS, TRAFFIC SECTION, BEFORE INSTALLATION.

PROJECT SPECIFIC GENERAL NOTES

1. EXISTING STRUCTURE PLANS ARE AVAILABLE FOR REVIEW IN THE DISTRICT OFFICE. CONTACT CHRISTOPHER MAUSHARD AT (309) 671-3453.

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. PRIOR TO WINTER SHUTDOWN THE FOLLOWING STEPS SHALL BE TAKEN:
   - ALL LANES SHALL BE REOPENED TO TRAFFIC.
   - TEMPORARY OR PERMANENT PAVEMENT MARKING SHALL BE PLACED AS APPLICABLE.
   - ALL TEMPORARY CONCRETE BARRIER SHALL BE REMOVED FROM BRIDGE DECK.

4. 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 FOLLOWS:

STATUS OF UTILITIES

TYPE	UTILITY	CONTACT	FACILITIES	STATUS
TELEPHONE	AT&T	MR. NATHAN CIOTA AT&T ILLINOIS MGR OSP PLANNING & ENGINEERING PEORIA, IL 309-686-3333	YES	NO CONFLICT
WATER	ILLINOIS AMERICAN WATER	100 E. LORENTZ AVE PEORIA, IL 61614 309-566-0700	YES	CAUTION-POTENTIAL CONFLICT
STORM SEWER & WATER	CITY OF EAST PEORIA	2232 E. WASHINGTON ST. EAST PEORIA, IL 61611 309-698-4716	NO	NO CONFLICT
COMMUNICATIONS	WINDSTREAM (PAETEC)	739 S. 5TH ST SPRINGFIELD, IL 62703 217-241-9866	NO	NO CONFLICT
SANITARY SEWER	GREATER PEORIA SANITARY DISTRICT	2322 S. DARST ST PEORIA, IL 61607 309-637-3511	NO	NO CONFLICT
GAS & ELECTRIC	AMEREN	MR. KENT KOWALSKE 300 LIBERTY ST PEORIA, IL 61602 309-677-5271	YES - GAS NO - ELECTRIC	GAS - POTENTIAL CONFLICT ELECTRIC - NO CONFLICT
COMMUNICATIONS	COMCAST	3517 N. DRIES LN PEORIA, IL 61604 866-594-1234	NO	NO CONFLICT
COMMUNICATIONS	STRATUS NETWORK	MR. JOE HUFFMAN OSP DIRECTOR 4700 N. PROSPECT RD PEORIA HEIGHTS, IL 61616 309-222-2080	NO	NO CONFLICT

COORDINATION

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 8TH 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 BURLINGTON NORTHERN SANTA FE RAILROAD (B.N.S.F.) REQUIREMENTS

B.N.S.F. CONTACT:
MR. CALVIN NUTT
MANAGER OF PUBLIC PROJECTS
BNSF RAILWAY COMPANY
80 44TH AVENUE NE
MINNEAPOLIS, MINNESOTA 55421
PHONE: (763) 782-3495

SEE SPECIAL PROVISIONS FOR TAZEWELL AND PEORIA RAILROAD (T.Z.P.R.) REQUIREMENTS

T.Z.P.R. CONTACT (FLAGGING):
MR. JOSHUA THOMAS
ROADMASTER
TAZEWELL AND PEORIA RAILROAD
301 WESLEY ROAD
CREVE COEUR, ILLINOIS 61610
PHONE: (309) 303-9404

T.Z.P.R. CONTACT (PERMITS):
MS. DONNA KILLINGSWORTH, M.B.A.
REAL ESTATE MANAGER
GENESEE & WYOMING RAILROAD SERVICES, INC.
13901 SUTTON PARK DRIVE SOUTH, SUITE 160
JACKSONVILLE, FLORIDA 32224
PHONE: (904) 900-6286

CATERPILLAR CONTACT:
MS. LAMIA SMITH
100 NORTHEAST ADAMS STREET, AH9320
PEORIA, ILLINOIS 61629
PHONE: (309) 578-4157

A.D.M. CONTACT:
MR. MARK REZNICK
1 EDMUND STREET
PEORIA, ILLINOIS 61602
PHONE: (309) 673-7828

COMMITMENTS

COMMITMENTS ARE NOT TO BE ALTERED WITHOUT THE WRITTEN APPROVAL OF ALL PARTIES TO WHICH THE COMMITMENT WAS MADE.

A COPY OF THE COMMITMENTS INCURRED FOR THIS PROJECT WILL BE PROVIDED AT THE PRECONSTRUCTION MEETING.

(*) PEORIA / TAZEWELL

FILE NAME = S:\Projects\2015 JOBS\15IL804-00 DEI PTB 168-17 D4 Cedar St Bridge\C400\C400 Sheets\0468493-sht-Gennote.dgn
MODEL = Default
PLOT DRIVER = 15IL804 PDF.plotcfg

QUIGG ENGINEERING INC

USER NAME = rgaertz	DESIGNED - RG	REVISED -	
0468493-sht-Gennote.dgn	DRAWN - RG	REVISED -	
PLOT SCALE = 40.0000 ' / in.	CHECKED - MCV	REVISED -	
PLOT DATE = 10/05/2015	DATE - 10/02/2015	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

GENERAL NOTES AND COMMITMENTS

SCALE: | SHEET NO. OF SHEETS | STA. | TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
669	(10381)-7	(*)	180	3
		CONTRACT NO. 68A93		
	ILLINOIS FED. AID PROJECT			

CODE NO.	ITEM	UNIT	TOTAL QUANTITY	CONSTRUCTION CODE			
				80% FEDERAL 20% STATE		80% FEDERAL 20% STATE	
				ROADWAY		BRIDGE	
				0004		0014	
				URBAN		S. N. 090-0030	
				PEORIA COUNTY (072)	TAZEWELL COUNTY (090)	~~PEORIA COUNTY (072)~~	TAZEWELL COUNTY (090)
20300100	CHANNEL EXCAVATION	CU YD	439				439
28100811	STONE DUMPED RIPRAP, CLASS A6	TON	835				835
35300500	PORTLAND CEMENT CONCRETE BASE COURSE 10"	SQ YD	1,088		1,088		
44000100	PAVEMENT REMOVAL	SQ YD	340		340		
44001980	CONCRETE BARRIER REMOVAL	FOOT	768		768		
44003100	MEDIAN REMOVAL	SQ FT	9,909		9,909		
44003510	MEDIAN REMOVAL PARTIAL DEPTH	SQ FT	65		65		
44213204	TIE BARS 3/4"	EACH	524		524		
50102400	CONCRETE REMOVAL	CU YD	148.4				148.4
50157300	PROTECTIVE SHIELD	SQ YD	7,614				7614
50200100	STRUCTURE EXCAVATION	CU YD	345				345
50300225	CONCRETE STRUCTURES	CU YD	317.8				317.8
50300255	CONCRETE SUPERSTRUCTURE	CU YD	147.1				147.1
50300260	BRIDGE DECK GROOVING	SQ YD	276				276

14

MODJESKI and MASTERS
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USER NAME =	DESIGNED - RLM	REVISED
	DRAWN - PRC	REVISED
PLOT SCALE =	CHECKED - RLM	REVISED
PLOT DATE = 11/24/2015	DATE - 11/9/2015	REVISED

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SUMMARY OF QUANTITIES

SCALE: | SHEET NO. OF SHEETS | STA. | TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
669	(103B)1-7	PEORIA/TAZEWELL	180	4
		CONTRACT NO. 68A93		
	ILLINOIS FED. AID PROJECT			

	CODE NO.	ITEM	UNIT	TOTAL QUANTITY	CONSTRUCTION CODE: 80% FEDERAL 20% STATE ROADWAY 0004 URBAN PEORIA COUNTY (072)	CONSTRUCTION CODE: 80% FEDERAL 20% STATE ROADWAY 0004 URBAN TAZEWELL COUNTY (090)	CONSTRUCTION CODE: 80% FEDERAL 20% STATE BRIDGE 0014 S. N. 090-0030 ~~PEORIA COUNTY (072)~~	CONSTRUCTION CODE: 80% FEDERAL 20% STATE BRIDGE 0014 S. N. 090-0030 TAZEWELL COUNTY (090)
	50300300	PROTECTIVE COAT	SQ YD	541				541
	50500105	FURNISHING AND ERECTING STRUCTURAL STEEL	L SUM	1				1
	50800205	REINFORCEMENT BARS, EPOXY COATED	POUND	144,558		43,558		101,000
	50800515	BAR SPLICERS	EACH	236				236
	52000110	PREFORMED JOINT STRIP SEAL	FOOT	1,178				1178
	52000600	FABRIC REINFORCED ELASTOMERIC TROUGH	FOOT	52				52
	52100520	ANCHOR BOLTS, 1"	EACH	8				8
	58700300	CONCRETE SEALER	SQ FT	19,513				19,513
	59000200	EPOXY CRACK INJECTION	FOOT	214		142		72
	60620000	CONCRETE MEDIAN, TYPE SB-6.24	SQ FT	5,622		5,622		
	63700160	CONCRETE BARRIER, SINGLE FACE, 34 INCH HEIGHT	FOOT	768		768		
*	66900200	NON-SPECIAL WASTE DISPOSAL	CU YD	570				570
	63700900	CONCRETE BARRIER BASE	FOOT	694		694		
*	66900450	SPECIAL WASTE PLANS AND REPORTS	L SUM	1				1
	64300260	IMPACT ATTENUATORS (FULLY REDIRECTIVE, NARROW), TEST LEVEL 3	EACH	4				4
*	66900530	SOIL DISPOSAL ANALYSIS	EACH	1				1
	67000400	ENGINEER'S FIELD OFFICE, TYPE A	CAL MO	16	8	8		

* SPECIALTY ITEM

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MODJESKI and MASTERS
Experience you can bridge on.

USER NAME =	DESIGNED - RLM	REVISED
	DRAWN - PRC	REVISED
PLOT SCALE =	CHECKED - RLM	REVISED
PLOT DATE = 11/29/2015	DATE - 11/9/2015	REVISED

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SUMMARY OF QUANTITIES

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F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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	(ILLINOIS) FED. AID PROJECT			

CODE NO.	ITEM	UNIT	TOTAL QUANTITY	CONSTRUCTION CODE: 80% FEDERAL 20% STATE ROADWAY 0004 URBAN PEORIA COUNTY (072)	CONSTRUCTION CODE: 80% FEDERAL 20% STATE ROADWAY 0004 URBAN TAZEWELL COUNTY (090)	CONSTRUCTION CODE: 80% FEDERAL 20% STATE BRIDGE 0014 S. N. 090-0030 ~~PEORIA COUNTY (072)~~	CONSTRUCTION CODE: 80% FEDERAL 20% STATE BRIDGE 0014 S. N. 090-0030 TAZEWELL COUNTY (090)
67100100	MOBILIZATION	L SUM	1	0.5	0.5		
70103815	TRAFFIC CONTROL SURVEILLANCE	CAL DA	20	5	15		
70107005	PAVEMENT MARKING BLACKOUT TAPE, 5"	FOOT	17,250.9	4,579.6	12,671.3		
70300900	PAVEMENT MARKING TAPE, TYPE IV - LETTERS AND SYMBOLS	SQ FT	47	47			
70300904	PAVEMENT MARKING TAPE, TYPE IV 4"	FOOT	61,310	20,387.6	40,922.4		
70300924	PAVEMENT MARKING TAPE, TYPE IV 24"	FOOT	71	71			
70301000	WORK ZONE PAVEMENT MARKING REMOVAL	SQ FT	27,765	8,845	18,920		
70400100	TEMPORARY CONCRETE BARRIER	FOOT	3,225.0	399.0	2826.0		
70400200	RELOCATE TEMPORARY CONCRETE BARRIER	FOOT	8,062.5	4166.3	3896.2		
70600250	IMPACT ATTENUATORS, TEMPORARY (NON- REDIRECTIVE), TEST LEVEL 3	EACH	2	1	1		
70600260	IMPACT ATTENUATORS, TEMPORARY (FULLY REDIRECTIVE, NARROW), TEST LEVEL 3	EACH	1	1			
70600332	IMPACT ATTENUATORS, RELOCATE (FULLY REDIRECTIVE, NARROW), TEST LEVEL 3	EACH	1	1			
70600350	IMPACT ATTENUATORS, RELOCATE (NON- REDIRECTIVE), TEST LEVEL 3	EACH	5	1	4		
* 78001100	PAINT PAVEMENT MARKING - LETTERS AND SYMBOLS	SQ FT	32	32			

* SPECIALTY ITEM

MODJESKI and MASTERS experience great bridges

USER NAME =	DESIGNED - RLM	REVISED
	DRAWN - PRC	REVISED
PLOT SCALE =	CHECKED - RLM	REVISED
PLOT DATE = 11/09/2015	DATE - 11/9/2015	REVISED

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SUMMARY OF QUANTITIES

SCALE: | SHEET NO. OF SHEETS | STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
669	(103B)I-7	PEORIA/TAZEWELL	180	6

CONTRACT NO. 68A93

ILLINOIS FED. AID PROJECT

	CODE NO.	ITEM	UNIT	TOTAL QUANTITY	CONSTRUCTION CODE			
					80% FEDERAL 20% STATE		80% FEDERAL 20% STATE	
					ROADWAY		BRIDGE	
					0004		0014	
					URBAN		S. N. 090-0030	
					PEORIA COUNTY (072)	TAZEWELL COUNTY (090)	~~PEORIA COUNTY (072)~~	TAZEWELL COUNTY (090)
*	78001110	PAINT PAVEMENT MARKING - LINE 4"	FOOT	32,523	9,098	23,425		
*	78001130	PAINT PAVEMENT MARKING - LINE 6"	FOOT	4,253	1,307	2,946		
*	78001140	PAINT PAVEMENT MARKING - LINE 8"	FOOT	1,742	100	1,642		
*	78001150	PAINT PAVEMENT MARKING - LINE 12"	FOOT	36		36		
*	78001180	PAINT PAVEMENT MARKING - LINE 24"	FOOT	120	120			
*	78200530	BARRIER WALL MARKERS, TYPE C	EACH	333	124	209		
*	81200230	CONDUIT EMBEDDED IN STRUCTURE, 2" DIA, PVC	FT	420				420
*	83003200	LIGHT POLE, ALUMINUM, 45 FT. M.H., 6 FT. DAVIT ARM	EACH	1				1
*	84400105	RELOCATE EXISTING LIGHTING UNIT	EACH	4				4
*	84200600	REMOVAL OF LIGHTING UNIT, NO SALVAGE	EACH	1				1
	X0325088	PLACEMENT OF CEMENT GROUT	CU FT	40				40
	X0325748	ACRYLIC COATING	SQ YD	6,806		698		6108
	~~X0326275~~	~~RAILROAD RIGHT OF WAY ENTRY PERMIT~~	~~EACH~~	~~2~~	~~2~~			
	X0326382	CONCRETE BARRIER BASE (SPECIAL)	FOOT	74		74		
*	X1400113	LUMINAIRE, LED, HORIZONTAL MOUNT, MEDIUM WATTAGE	EACH	17				17
	X6640585	CHAIN LINK FENCE, ATTACHED TO STRUCTURE, SPECIAL	FOOT	74		74		
(4)	X7010216	TRAFFIC CONTROL AND PROTECTION, (SPECIAL)	L SUM	1	0.5	0.5		

* SPECIALTY ITEM

MODJESKI and MASTERS Experience great bridges.	USER NAME =	DESIGNED - RLM	REVISED
		DRAWN - PRC	REVISED
	PLOT SCALE =	CHECKED - RLM	REVISED
	PLOT DATE = 11/20/2015	DATE - 11/9/2015	REVISED

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SUMMARY OF QUANTITIES

SCALE: | SHEET NO. OF SHEETS | STA. | TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
669	11038I1-7	PEORIA/TAZEWELL	180	7
		CONTRACT NO. 68A93		
	ILLINOIS FED. AID PROJECT			

	CODE NO.	ITEM	UNIT	TOTAL QUANTITY	CONSTRUCTION CODE: 80% FEDERAL 20% STATE — ROADWAY 0004 URBAN — PEORIA COUNTY (072)	CONSTRUCTION CODE: 80% FEDERAL 20% STATE — ROADWAY 0004 URBAN — TAZEWELL COUNTY (090)	CONSTRUCTION CODE: 80% FEDERAL 20% STATE — BRIDGE 0014 S. N. 090-0030 — ~~PEORIA COUNTY (072)~~	CONSTRUCTION CODE: 80% FEDERAL 20% STATE — BRIDGE 0014 S. N. 090-0030 — TAZEWELL COUNTY (090)
	X7015005	CHANGEABLE MESSAGE SIGN	CAL DA	156	104	52		
*	X8260110	NAVIGATION LIGHTING SYSTEM	L SUM	1				1
	Z0001904	STRUCTURAL STEEL REMOVAL	L SUM	1				1
	Z0001905	STRUCTURAL STEEL REPAIR	POUND	40,780				40,780
	Z0006710	BRIDGE DRAINAGE SYSTEM REPAIR	EACH	10				10
	Z0007101	CONTAINMENT AND DISPOSAL OF LEAD PAINT CLEANING RESIDUES NO. 1	L SUM	1				1
	Z0010501	CLEANING AND PAINTING STEEL BRIDGE NO. 1	L SUM	1				1
□	Z0010605	CLEANING DRAINAGE SYSTEM	L SUM	1				1
	Z0012754	STRUCTURAL REPAIR OF CONCRETE (DEPTH EQUAL TO OR LESS THAN 5 INCHES)	SQ FT	1,035		97		938
	Z0012755	STRUCTURAL REPAIR OF CONCRETE (DEPTH GREATER THAN 5 INCHES)	SQ FT	22		22		
	Z0013798	CONSTRUCTION LAYOUT	L SUM	1	0.5	0.5		
	Z0016200	DECK SLAB REPAIR (PARTIAL)	SQ YD	34				34
	Z0016702	DETOUR SIGNING	L SUM	1	0.2	0.8		
14	Z0018800	DRAINAGE SYSTEM	L SUM	1			1	

* SPECIALTY ITEM

□ NON-PART. (100 % STATE)

MODJESKI and MASTERS Experience great bridges.

USER NAME =	DESIGNED - RLM	REVISED
	DRAWN - PRC	REVISED
PLOT SCALE =	CHECKED - RLM	REVISED
PLOT DATE = 11/09/2015	DATE - 11/9/2015	REVISED

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SUMMARY OF QUANTITIES

SCALE: | SHEET NO. OF SHEETS | STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
669	(103BR)-7	PEORIA/TAZEWELL	180	8
		CONTRACT NO. 68A93		
	ILLINOIS FED. AID PROJECT			

CODE NO.	ITEM	UNIT	TOTAL QUANTITY	CONSTRUCTION CODE			
				80% FEDERAL 20% STATE		80% FEDERAL 20% STATE	
				ROADWAY		BRIDGE	
				0004		0014	
				URBAN		S. N. 090-0030	
				PEORIA COUNTY (072)	TAZEWELL COUNTY (090)	~~PEORIA COUNTY (072)~~	TAZEWELL COUNTY (090)
Z0040330	PIN AND LINK PLATE REPLACEMENT	EACH	2				2
Z0043900	PREFORMED JOINT FILLER	FOOT	176				176
Z0048665	RAILROAD PROTECTIVE LIABILITY INSURANCE	L SUM	1	1			
Z0066100	STABILIZATION FABRIC	SQ YD	511				511
Z0073300	TEMPORARY SHORING AND CRIBBING	L SUM	1				1
Z0073500	TEMPORARY SUPPORT SYSTEM	L SUM	1				1

MODJESKI and MASTERS
Experience great bridges.

USER NAME =	DESIGNED - RLM	REVISED	
	DRAWN - PRC	REVISED	
PLOT SCALE =	CHECKED - RLM	REVISED	
PLOT DATE = 11/09/2015	DATE - 11/9/2015	REVISED	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SUMMARY OF QUANTITIES

SCALE: SHEET NO. OF SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
669	(103BI)-7	PEORIA/TAZEWELL	180	9

CONTRACT NO. 68A93

ILLINOIS FED. AID PROJECT

PAY ITEM NAME					UNIT	FINAL QUANTITY
PORTLAND CEMENT CONCRETE BASE COURSE 10''					SQ YD	1,088
				AVG		
STA	STA	OFFSET	LENGTH	WIDTH	SQ FT	SQ YD
PRE-STAGE 1						
44+23.60	55+11.50	CENTERLINE	1,087.9	9.0	9,791.1	1,087.9
					TOTAL	1,087.9

PAY ITEM NAME					UNIT	FINAL QUANTITY
MEDIAN REMOVAL					SQ FT	9,909
				AVG		
STA	STA	OFFSET	LENGTH	WIDTH	SQ FT	
PRE-STAGE 1						
44+17.60	55+18.50	CENTERLINE	1,100.9	9.0	9,908.1	
				TOTAL	9,908.1	

PAY ITEM NAME					UNIT	FINAL QUANTITY
MEDIAN REMOVAL PARTIAL DEPTH					SQ FT	65
STA	STA	LOCATION	LENGTH	WIDTH	SQ FT	
POST STAGE 4						
44+17.60	44+23.60	NOSE	6.0	5.0	30.0	
55+11.50	55+18.50	NOSE	7.0	5.0	35.0	
				TOTAL	65.0	

PAY ITEM NAME					UNIT	FINAL QUANTITY
CONCRETE MEDIAN, TYPE SB-6.24					SQ FT	5,622
STA	STA	LOCATION	LENGTH	WIDTH	SQ FT	
PRE STAGE 1						
44+17.60	44+23.60	NOSE	6.0	9.0	54.0	
55+11.50	55+18.50	NOSE	7.0	9.0	63.0	
POST STAGE 4						
44+17.60	55+18.50	CENTERLINE	1,100.9	5.0	5,504.5	
				TOTAL	5,621.5	

PAY ITEM NAME	UNIT	FINAL QUANTITY
ENGINEER'S FIELD OFFICE, TYPE A	CAL MO	16
LOCATION	CAL MO	
JOB SITE	16	
TOTAL	16	

PAY ITEM NAME	UNIT	FINAL QUANTITY
MOBILIZATION	L SUM	1
LOCATION	L SUM	
JOB SITE	1	
TOTAL	1	

PAY ITEM NAME									UNIT	FINAL QUANTITY
TRAFFIC CONTROL SURVEILLANCE									CAL DA	20
MONDAY-FRIDAY		SATURDAY-SUNDAY								
A	B	C	D	E	F	G	H	I		
HR/DAY	DAY/WEEK	HR/DAY	DAY/WEEK	WEEK/MO	CAL MO	STAGE	HR/DAY	REMARKS	CAL DA	
15	5	24	2	4	0.50	PRE 1	24		10.3	
15	5	24	2	4	0.00	1	24	DROP OFF PROTECTED	0.0	
15	5	24	2	4	0.00	2	24	DROP OFF PROTECTED	0.0	
15	5	24	2	4	0.00	3	24	DROP OFF PROTECTED	0.0	
15	5	24	2	4	0.00	4	24	DROP OFF PROTECTED	0.0	
15	5	24	2	4	0.00	POST 4	24	NO DROP OFF	0.0	
[[(A•B)+(C•D)]•E•F]/H =								TOTAL	10.3	

PAY ITEM NAME				UNIT	FINAL QUANTITY
PAVEMENT MARKING TAPE, TYPE IV - LETTERS AND SYMBOLS				SQ FT	47
STA	LT / RT	DESCRIPTION	COLOR	ARROW	SQ FT
STAGE 2					
105+00	RT	LT ARROW	WHITE	15.6	15.6
STAGE 3					
105+00	RT	LT ARROW	WHITE	15.6	15.6
110+25	RT	RT ARROW	WHITE	15.6	15.6
				TOTAL	46.8

PAY ITEM NAME					UNIT	FINAL QUANTITY
PAVEMENT MARKING BLACKOUT TAPE, 5''					FOOT	17,251
STA	STA	LT / RT	LENGTH	TYPE	FOOT	
STAGE 1						
2+19.00	3+00.00	RT	81.0	SKIP DASH	20.3	
3+00.00	17+50.00	RT	1450.0	SKIP DASH	362.5	
7+59.00	9+49.00	LT	190.0	SKIP DASH	47.5	
7+59.00	17+50.00	CENTERLINE	991.0	DOUBLE	1,982.0	
17+50.00	32+50.00	RT	1500.0	SKIP DASH	375.0	
17+50.00	32+50.00	CENTERLINE	1500.0	DOUBLE	3,000.0	
32+50.00	39+73.00	CENTERLINE	723.0	DOUBLE	1,446.0	
39+73.00	44+18.00	RT	445.0	SOLID	445.0	
32+50.00	47+00.00	RT	1450.0	SKIP DASH	362.5	
46+28.00	47+00.00	LT	72.0	SKIP DASH	18.0	
47+00.00	48+51.00	LT	151.0	SKIP DASH	37.8	
47+00.00	56+88.00	RT	988.0	SKIP DASH	247.0	
54+90.00	61+00.00	LT	610.0	SKIP DASH	152.5	
47+97.00	50+14.00	LT	217.0	SOLID	217.0	
47+97.00	49+21.00	LT	124.0	SOLID	124.0	
61+00.00	74+43.00	LT	1343.0	SKIP DASH	335.8	
STAGE 2						
97+37.00	101+16.00	RT	379.0	SKIP DASH	94.8	
102+15.00	103+66.00	RT	151.0	SKIP DASH	37.8	
104+25.00	105+83.00	RT	158.0	SKIP DASH	39.5	
106+81.00	110+46.00	RT	365.0	SKIP DASH	91.3	
108+58.00	110+46.00	CENTERLINE	188.0	DOUBLE	376.0	
0+12.00	3+00.00	CENTERLINE	288.0	DOUBLE	576.0	
0+30.00	2+39.00	RT	209.0	SKIP DASH	52.3	
3+00.00	7+59.00	CENTERLINE	459.0	DOUBLE	918.0	
21+13.00	29+53.00	LT	840.0	SKIP DASH	210.0	
STAGE 3						
106+78.00	110+46.00	LT	368.0	SKIP DASH	92.0	
0+18.00	3+00.00	LT	282.0	SKIP DASH	70.5	
3+00.00	7+59.00	LT	459.0	SKIP DASH	114.8	
9+49.00	17+50.00	LT	801.0	SKIP DASH	200.3	
17+50.00	21+13.00	LT	363.0	SKIP DASH	90.8	
21+13.00	26+33.00	CENTERLINE	520.0	DOUBLE	1,040.0	
STAGE 4						
26+33.00	32+50.00	CENTERLINE	617.0	DOUBLE	1,234.0	
26+33.00	32+50.00	LT	617.0	SKIP DASH	154.3	
32+50.00	39+73.00	CENTERLINE	723.0	DOUBLE	1,446.0	
32+50.00	47+00.00	LT	1450.0	SKIP DASH	362.5	
45+00.00	46+60.00	RT	160.0	SKIP DASH	40.0	
46+35.00	47+00.00	RT	65.0	SOLID	65.0	
46+35.00	47+00.00	RT	65.0	SOLID	65.0	
47+00.00	47+22.00	RT	22.0	SOLID	22.0	
47+00.00	61+00.00	LT	1400.0	SKIP DASH	350.0	
54+00.00	55+17.00	RT	117.0	SKIP DASH	29.3	
61+00.00	73+23.00	LT	1223.0	SKIP DASH	305.8	
				TOTAL	17,250.9	

(•) PEORIA / TAZEWELL

QUIGG ENGINEERING INC

USER NAME = rgoertz	DESIGNED - RG	REVISED -
D468A93-sht-Schedule.dgn	DRAWN - RG	REVISED -
PLOT SCALE = 100.0000 '/ in.	CHECKED - MCV	REVISED -
PLOT DATE = 10/05/2015	DATE - 10/02/2015	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SCHEDULE OF QUANTITIES

SCALE: | SHEET NO. OF SHEETS | STA. | TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
669	(103B)I-7	(•)	180	10
		CONTRACT NO. 68A93		
	ILLINOIS FED. AID PROJECT			

FILE NAME = S:\Projects\2015 JOBS\15IL004-00 QEI PTB 168-17 D4 Cedar St Bridge\CADD\CADD Sheets\D468A93-sht-Schedule.dgn
MODEL = Sheet1
PLOT DRIVER = 15IL004 PDF.pltcfg

PAY ITEM NAME					UNIT	FINAL QUANTITY
PAVEMENT MARKING TAPE, TYPE IV 4''					FOOT	61,310
STA	STA	LT / RT	DESCRIPTION	COLOR	FOOT	
STAGE 1						
2+19.00	3+00.00	CENTERLINE	SOLID	YELLOW	81	
3+00.00	10+39.00	RT	SOLID	YELLOW	739	
7+59.00	10+39.00	RT	SOLID	YELLOW	280	
7+59.00	10+39.00	LT	SOLID	WHITE	280	
10+39.00	17+50.00	CENTERLINE	SOLID	WHITE	711	
10+39.00	17+50.00	RT	DOUBLE	YELLOW	1,422	
17+50.00	32+50.00	RT	DOUBLE	YELLOW	3,000	
17+50.00	32+50.00	CENTERLINE	SOLID	WHITE	1,500	
32+50.00	39+11.00	RT	DOUBLE	YELLOW	1,322	
32+50.00	39+11.00	CENTERLINE	SOLID	WHITE	661	
39+11.00	40+45.00	RT	SOLID	WHITE	134	
40+45.00	44+40.00	RT	SOLID	WHITE	395	
44+40.00	47+00.00	LT / RT	RAMP EDGE	WHITE	260	
39+11.00	40+45.00	RT	DOUBLE	YELLOW	268	
40+45.00	47+00.00	RT	DOUBLE	YELLOW	1,310	
47+00.00	49+58.00	LT	RAMP EDGE	WHITE	258	
47+40.00	50+14.00	LT / RT	RAMP EDGE	WHITE	274	
47+40.00	50+15.00	RT	SOLID	WHITE	275	
50+15.00	54+90.00	LT / RT	SOLID	WHITE	475	
54+90.00	61+00.00	LT	SOLID	WHITE	610	
47+00.00	50+28.00	RT	DOUBLE	YELLOW	656	
50+28.00	54+90.00	LT / RT	SOLID	YELLOW	462	
54+90.00	55+21.00	LT	SOLID	YELLOW	31	
50+28.00	56+88.00	RT	SOLID	YELLOW	660	
61+00.00	64+16.00	LT	SOLID	WHITE	316	
63+36.00	64+16.00	LT	RAMP EDGE	WHITE	80	
63+20.00	67+50.00	LT	RAMP EDGE	WHITE	430	
67+50.00	69+03.00	LT	SOLID	WHITE	153	
69+03.00	74+43.00	LT	SOLID	WHITE	540	
STAGE 2						
97+37.00	100+57.00	RT	SOLID	YELLOW	320	
100+57.00	101+16.00	RT	SOLID	YELLOW	59	
102+15.00		RT	SOLID	YELLOW	11	
102+15.00	103+66.00	RT	SOLID	YELLOW	151	
104+25.00	105+83.00	RT	SOLID	WHITE	158	
106+81.00		RT	SOLID	YELLOW	14	
106+81.00	109+95.00	RT	SOLID	YELLOW	314	
108+58.00	109+95.00	RT	SOLID	YELLOW	137	
109+95.00	110+46.00	RT	DOUBLE	YELLOW	102	
0+30.00	2+19.00	RT	DOUBLE	YELLOW	378	
2+19.00	3+00.00	RT	DOUBLE	YELLOW	162	
0+30.00	2+19.00	CENTERLINE	SOLID	WHITE	189	
2+19.00	3+00.00	CENTERLINE	SOLID	WHITE	81	
110+46.00	0+30.00	RT	DBL DOTTED	YELLOW	56	
3+00.00	17+50.00	RT	DOUBLE	YELLOW	2,900	
3+00.00	17+50.00	CENTERLINE	SOLID	WHITE	1,450	
17+50.00	18+33.00	RT	DOUBLE	YELLOW	166	
18+33.00	21+13.00	RT	SOLID	YELLOW	280	
18+33.00	21+13.00	RT	SOLID	YELLOW	280	
17+50.00	18+22.00	CENTERLINE	SOLID	WHITE	72	
18+22.00	21+13.00	LT	SOLID	WHITE	291	
21+13.00	24+33.00	LT	SOLID	WHITE	320	
24+33.00	29+73.00	LT	SOLID	WHITE	540	
44+18.00	47+00.00	LT	SOLID	YELLOW	282	
44+18.00	47+00.00	RT	SOLID	YELLOW	282	
47+00.00	55+19.00	LT	SOLID	YELLOW	819	

PAY ITEM NAME					UNIT	FINAL QUANTITY
PAVEMENT MARKING TAPE, TYPE IV 4''					FOOT	61,310
STA	STA	LT / RT	DESCRIPTION	COLOR	FOOT	
47+00.00	55+19.00	RT	SOLID	YELLOW	819	
STAGE 3						
97+37.00	100+57.00	RT	SOLID	YELLOW	320	
100+57.00	101+16.00	RT	SOLID	YELLOW	59	
102+15.00		RT	SOLID	YELLOW	11	
102+15.00	103+66.00	RT	SOLID	YELLOW	151	
104+25.00	105+83.00	RT	SOLID	WHITE	158	
106+78.00		LT / RT	SOLID	YELLOW	20	
106+78.00	107+24.00	RT	SOLID	YELLOW	46	
107+24.00	109+56.00	LT / RT	SOLID	YELLOW	232	
107+25.00	108+33.00	RT	DOTTED	WHITE	27	
106+78.00	109+56.00	LT	SOLID	YELLOW	278	
109+56.00	110+46.00	LT	DOUBLE	YELLOW	180	
108+33.00	109+63.00	RT	SOLID	WHITE	130	
109+63.00	110+45.00	CENTERLINE	SOLID	WHITE	82	
108+33.00	110+45.00	RT	SOLID	WHITE	212	
110+46.00	0+18.00	LT	DBL DOTTED	YELLOW	50	
0+18.00	3+00.00	LT	DOUBLE	YELLOW	564	
0+36.00	3+00.00	CENTERLINE	SOLID	WHITE	264	
111+19.00	0+36.00	RT	SOLID	WHITE	60	
3+00.00	17+50.00	LT	DOUBLE	YELLOW	2,900	
3+00.00	17+50.00	CENTERLINE	SOLID	WHITE	1,450	
17+50.00	18+33.00	LT	DOUBLE	YELLOW	166	
18+33.00	21+13.00	LT	SOLID	YELLOW	280	
21+13.00	26+53.00	LT	SOLID	YELLOW	540	
18+33.00	21+13.00	LT	SOLID	YELLOW	280	
17+50.00	18+33.00	CENTERLINE	SOLID	WHITE	83	
18+33.00	21+13.00	RT	SOLID	WHITE	280	
21+13.00	26+53.00	CENTERLINE	SOLID	YELLOW	540	
44+18.00	47+00.00	RT	SOLID	YELLOW	282	
44+18.00	47+00.00	LT	SOLID	YELLOW	282	
47+00.00	55+19.00	LT	SOLID	YELLOW	819	
47+00.00	55+19.00	RT	SOLID	YELLOW	819	
STAGE 4						
0+12.00	3+00.00	LT	SOLID	WHITE	288	
2+39.00	3+00.00	RT	SOLID	WHITE	61	
3+00.00	17+50.00	LT	SOLID	WHITE	1,450	
4+77.00	7+59.00	LT	SOLID	YELLOW	282	
7+59.00	10+39.00	LT	SOLID	YELLOW	280	
4+77.00	7+59.00	CENTERLINE	SOLID	YELLOW	282	
7+59.00	10+39.00	LT	SOLID	YELLOW	280	
10+39.00	17+50.00	LT	DOUBLE	YELLOW	1,422	
3+00.00	5+59.00	RT	SOLID	WHITE	259	
5+59.00	7+59.00	RT	SOLID	WHITE	200	
7+59.00	10+39.00	RT	SOLID	WHITE	280	
10+39.00	17+50.00	CENTERLINE	SOLID	WHITE	711	
17+50.00	32+50.00	LT	SOLID	WHITE	1,500	
17+50.00	32+50.00	CENTERLINE	SOLID	WHITE	1,500	
17+50.00	32+50.00	LT	DOUBLE	YELLOW	3,000	
32+50.00	37+59.00	LT	SOLID	WHITE	509	
37+59.00	40+59.00	LT	SOLID	WHITE	300	
40+59.00	41+26.00	LT	SOLID	WHITE	67	
32+50.00	37+59.00	LT	DOUBLE	YELLOW	1,018	
37+59.00	40+59.00	LT	DOUBLE	YELLOW	600	
40+59.00	47+00.00	LT	DOUBLE	YELLOW	1,282	
32+50.00	37+59.00	CENTERLINE	SOLID	WHITE	509	
37+59.00	41+61.00	LT	SOLID	WHITE	402	

PAY ITEM NAME					UNIT	FINAL QUANTITY
PAVEMENT MARKING TAPE, TYPE IV 4''					FOOT	61,310
STA	STA	LT / RT	DESCRIPTION	COLOR	FOOT	
41+61.00	44+40.00	LT	SOLID	WHITE	279	
44+40.00	47+00.00	RT	RAMP EDGE	WHITE	265	
47+00.00	47+16.00	RT	RAMP EDGE	WHITE	16	
46+00.00	47+00.00	RT	RAMP EDGE	WHITE	105	
47+00.00	47+22.00	RT	RAMP EDGE	WHITE	24	
46+00.00	47+00.00	RT	SOLID	WHITE	100	
47+00.00	50+05.00	LT	SOLID	WHITE	305	
47+00.00	50+20.00	LT	DOUBLE	YELLOW	640	
50+20.00	54+80.00	LT / RT	SOLID	YELLOW	460	
54+80.00	55+18.00	RT	SOLID	YELLOW	38	
50+20.00	54+73.00	LT	SOLID	YELLOW	453	
54+73.00	61+00.00	LT	SOLID	YELLOW	627	
61+00.00	67+82.00	LT	SOLID	YELLOW	682	
67+83.00	73+23.00	LT	SOLID	YELLOW	540	
50+05.00	54+80.00	LT / RT	SOLID	WHITE	475	
54+80.00	55+18.00	RT	SOLID	WHITE	38	
				TOTAL	61,310	

PAY ITEM NAME				UNIT	FINAL QUANTITY
PAVEMENT MARKING TAPE, TYPE IV 24''				FOOT	71
STA	LT / RT	DESCRIPTION	COLOR	FOOT	
STAGE 2					
110+46.00	RT	STOP LINE	WHITE	12	
0+30.00	RT	STOP LINE	WHITE	12	
STAGE 3					
110+46.00	LT	STOP LINE	WHITE	11	
0+18.00	LT	STOP LINE	WHITE	12	
STAGE 4					
0+12.00	LT	STOP LINE	WHITE	24	
			TOTAL	71	

(*) PEORIA / TAZEWELL

QUIGG ENGINEERING INC

USER NAME = rgoertz	DESIGNED - RG	REVISED -
D468A93-sht-Schedule.dgn	DRAWN - RG	REVISED -
PLOT SCALE = 100.0000 ' / in.	CHECKED - MCV	REVISED -
PLOT DATE = 10/05/2015	DATE - 10/02/2015	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SCHEDULE OF QUANTITIES

SCALE: | SHEET NO. OF SHEETS | STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
669	(103B)I-7	(*)	180	11
			CONTRACT NO. 68A93	
		ILLINOIS	FED. AID PROJECT	

FILE NAME = S:\Projects\2015 JOBS\15IL004-00 QEI PTB 168-17 D4 Cedar St Bridge\CADD\CADD Sheets\D468A93-sht-Schedule.dgn
USER NAME = rgoertz
PLOT DRIVER = 15IL004 PDF.pltcfg

PAY ITEM NAME						UNIT	FINAL QUANTITY
WORK ZONE PAVEMENT MARKING REMOVAL						SQ FT	27,765
STA	STA	LT / RT	QTY	TYPE	SIZE	SQ FT	
STAGE 1							
2+19.00	3+00.00	CENTERLINE	81.0	SOLID	4	27.0	
3+00.00	10+39.00	RT	739.0	SOLID	4	246.3	
7+59.00	10+39.00	RT	280.0	SOLID	4	93.3	
7+59.00	10+39.00	LT	280.0	SOLID	4	93.3	
10+39.00	17+50.00	CENTERLINE	711.0	SOLID	4	237.0	
10+39.00	17+50.00	RT	711.0	DOUBLE	4	474.0	
17+50.00	32+50.00	RT	1500.0	DOUBLE	4	1,000.0	
17+50.00	32+50.00	CENTERLINE	1500.0	SOLID	4	500.0	
32+50.00	39+11.00	RT	661.0	DOUBLE	4	440.7	
32+50.00	39+11.00	CENTERLINE	661.0	SOLID	4	220.3	
39+11.00	40+45.00	RT	134.0	SOLID	4	44.7	
40+45.00	44+40.00	RT	395.0	SOLID	4	131.7	
44+40.00	47+00.00	LT / RT	260.0	RAMP EDGE	4	86.7	
39+11.00	40+45.00	RT	134.0	DOUBLE	4	89.3	
40+45.00	47+00.00	RT	655.0	DOUBLE	4	436.7	
47+00.00	49+58.00	LT	258.0	RAMP EDGE	4	86.0	
47+40.00	50+14.00	LT / RT	274.0	RAMP EDGE	4	91.3	
47+40.00	50+15.00	RT	275.0	SOLID	4	91.7	
50+15.00	54+90.00	LT / RT	475.0	SOLID	4	158.3	
54+90.00	61+00.00	LT	610.0	SOLID	4	203.3	
47+00.00	50+28.00	RT	328.0	DOUBLE	4	218.7	
50+28.00	54+90.00	LT / RT	462.0	SOLID	4	154.0	
54+90.00	55+21.00	LT	31.0	SOLID	4	10.3	
50+28.00	56+88.00	RT	660.0	SOLID	4	220.0	
61+00.00	64+16.00	LT	316.0	SOLID	4	105.3	
63+36.00	64+16.00	LT	80.0	RAMP EDGE	4	26.7	
63+20.00	67+50.00	LT	430.0	RAMP EDGE	4	143.3	
67+50.00	69+03.00	LT	153.0	SOLID	4	51.0	
69+03.00	74+43.00	LT	540.0	SOLID	4	180.0	
STAGE 1 (BLACK TAPE)							
21+13.00	32+50.00	RT	1137.0	SKIP DASH	5	118.4	
21+13.00	32+50.00	CENTERLINE	1137.0	DOUBLE	5	947.5	
32+50.00	39+73.00	CENTERLINE	723.0	DOUBLE	5	602.5	
39+73.00	44+18.00	RT	445.0	SOLID	5	185.4	
32+50.00	47+00.00	RT	1450.0	SKIP DASH	5	151.0	
46+28.00	47+00.00	LT	72.0	SKIP DASH	5	7.5	
47+00.00	48+51.00	LT	151.0	SKIP DASH	5	15.7	
47+00.00	56+88.00	RT	988.0	SKIP DASH	5	102.9	
54+90.00	61+00.00	LT	610.0	SKIP DASH	5	63.5	
47+97.00	50+14.00	LT	217.0	SOLID	5	90.4	
47+97.00	49+21.00	LT	124.0	SOLID	5	51.7	
61+00.00	74+43.00	LT	1343.0	SKIP DASH	5	139.9	
STAGE 2							
97+37.00	100+57.00	RT	320.0	SOLID	4	106.7	
100+57.00	101+16.00	RT	59.0	SOLID	4	19.7	
102+15.00		RT	11.0	SOLID	4	3.7	
102+15.00	103+66.00	RT	151.0	SOLID	4	50.3	
104+25.00	105+83.00	RT	158.0	SOLID	4	52.7	
106+81.00		RT	14.0	SOLID	4	4.7	
106+81.00	109+95.00	RT	314.0	SOLID	4	104.7	
108+58.00	109+95.00	RT	137.0	SOLID	4	45.7	
109+95.00	110+46.00	RT	51.0	DOUBLE	4	34.0	
0+30.00	2+19.00	RT	189.0	DOUBLE	4	126.0	
2+19.00	3+00.00	RT	81.0	DOUBLE	4	54.0	
0+30.00	2+19.00	CENTERLINE	189.0	SOLID	4	63.0	
2+19.00	3+00.00	CENTERLINE	81.0	SOLID	4	27.0	
110+46.00	0+30.00	RT	111.1	DBL DOTTED	4	18.5	
3+00.00	17+50.00	RT	1450.0	DOUBLE	4	966.7	
3+00.00	17+50.00	CENTERLINE	1450.0	SOLID	4	483.3	
17+50.00	18+33.00	RT	83.0	DOUBLE	4	55.3	
18+33.00	21+13.00	RT	280.0	SOLID	4	93.3	
18+33.00	21+13.00	RT	280.0	SOLID	4	93.3	
17+50.00	18+22.00	CENTERLINE	72.0	SOLID	4	24.0	
18+22.00	21+13.00	LT	291.0	SOLID	4	97.0	

PAY ITEM NAME						UNIT	FINAL QUANTITY
WORK ZONE PAVEMENT MARKING REMOVAL						SQ FT	27,765
STA	STA	LT / RT	QTY	TYPE	SIZE	SQ FT	
21+13.00	24+33.00	LT	320.0	SOLID	4	106.7	
24+33.00	29+73.00	LT	540.0	SOLID	4	180.0	
44+18.00	47+00.00	LT	282.0	SOLID	4	94.0	
44+18.00	47+00.00	RT	282.0	SOLID	4	94.0	
47+00.00	55+18.50	LT	818.5	SOLID	4	272.8	
47+00.00	55+18.50	RT	818.5	SOLID	4	272.8	
110+46.00		RT	12.0	SOLID	24	24.0	
0+30.00		RT	12.0	SOLID	24	24.0	
STAGE 2 (BLACK TAPE)							
0+30.00	2+39.00	RT	209.0	SKIP DASH	5	21.8	
17+50.00	21+13.00	RT	363.0	SKIP DASH	5	37.8	
26+33.00	29+53.00	LT	320.0	SKIP DASH	5	33.3	
STAGE 3							
97+37.00	100+57.00	RT	320.0	SOLID	4	106.7	
100+57.00	101+16.00	RT	59.0	SOLID	4	19.7	
102+15.00		RT	11	SOLID	4	3.7	
102+15.00	103+66.00	RT	151.0	SOLID	4	50.3	
104+25.00	105+83.00	RT	158.0	SOLID	4	52.7	
106+78.00		LT / RT	20	SOLID	4	6.7	
106+78.00	107+24.00	RT	46.0	SOLID	4	15.3	
107+24.00	109+56.00	LT / RT	232.0	SOLID	4	77.3	
107+25.00	108+33.00	RT	108.0	DOTTED	4	9.0	
106+78.00	109+56.00	LT	278.0	SOLID	4	92.7	
109+56.00	110+46.00	LT	90.0	DOUBLE	4	60.0	
108+33.00	109+62.70	RT	129.7	SOLID	4	43.2	
109+62.70	110+45.00	CENTERLINE	82.3	SOLID	4	27.4	
108+33.00	110+45.00	RT	212.0	SOLID	4	70.7	
110+46.00	0+18.00	LT	99.1	DBL DOTTED	4	16.5	
0+18.00	3+00.00	LT	282.0	DOUBLE	4	188.0	
0+36.00	3+00.00	CENTERLINE	264.0	SOLID	4	88.0	
111+18.90	0+36.00	RT	60.0	SOLID	4	20.0	
3+00.00	17+50.00	LT	1450.0	DOUBLE	4	966.7	
3+00.00	17+50.00	CENTERLINE	1450.0	SOLID	4	483.3	
17+50.00	18+33.00	LT	83.0	DOUBLE	4	55.3	
18+33.00	21+13.00	LT	280.0	SOLID	4	93.3	
21+13.00	26+53.00	LT	540.0	SOLID	4	180.0	
18+33.00	21+13.00	LT	280.0	SOLID	4	93.3	
17+50.00	18+33.00	CENTERLINE	83.0	SOLID	4	27.7	
18+33.00	21+13.00	RT	280.0	SOLID	4	93.3	
21+13.00	26+53.00	CENTERLINE	540.0	SOLID	4	180.0	
44+18.00	47+00.00	RT	282.0	SOLID	4	94.0	
44+18.00	47+00.00	LT	282.0	SOLID	4	94.0	
47+00.00	55+18.50	LT	818.5	SOLID	4	272.8	
47+00.00	55+18.58	RT	818.6	SOLID	4	272.9	
110+46.00		LT	11.0	SOLID	24	22.0	
0+18.00		LT	12.0	SOLID	24	24.0	
STAGE 3 (BLACK TAPE)							
97+37.00	101+16.00	RT	379.0	SKIP DASH	5	39.5	
102+15.00	103+66.00	RT	151.0	SKIP DASH	5	15.7	
104+25.00	105+83.00	RT	158.0	SKIP DASH	5	16.5	
106+78.00	110+46.00	LT	368.0	SKIP DASH	5	38.3	
106+81.00	110+46.00	RT	365.0	SKIP DASH	5	38.0	
108+58.00	110+46.00	CENTERLINE	188.0	DOUBLE	5	156.7	
0+12.00	3+00.00	CENTERLINE	288.0	DOUBLE	5	240.0	
3+00.00	4+77.00	CENTERLINE	177.0	DOUBLE	5	147.5	
7+59.00	17+50.00	RT	991.0	SKIP DASH	5	103.2	
0+18.00	3+00.00	LT	282.0	SKIP DASH	5	29.4	
3+00.00	4+77.00	LT	177.0	SKIP DASH	5	18.4	
STAGE 4							
0+12.00	3+00.00	LT	288.0	SOLID	4	96.0	

PAY ITEM NAME						UNIT	FINAL QUANTITY
WORK ZONE PAVEMENT MARKING REMOVAL						SQ FT	27,765
STA	STA	LT / RT	QTY	TYPE	SIZE	SQ FT	
2+39.00	3+00.00	RT	61.0	SOLID	4	20.3	
3+00.00	17+50.00	LT	1450.0	SOLID	4	483.3	
4+77.00	7+59.00	LT	282.0	SOLID	4	94.0	
7+59.00	10+39.00	LT	280.0	SOLID	4	93.3	
4+77.00	7+59.00	CENTERLINE	282.0	SOLID	4	94.0	
7+59.00	10+39.00	LT	280.0	SOLID	4	93.3	
10+39.00	17+50.00	LT	711.0	DOUBLE	4	474.0	
3+00.00	5+59.00	RT	259.0	SOLID	4	86.3	
5+59.00	7+59.00	RT	200.0	SOLID	4	66.7	
7+59.00	10+39.00	RT	280.0	SOLID	4	93.3	
10+39.00	17+50.00	CENTERLINE	711.0	SOLID	4	237.0	
17+50.00	32+50.00	LT	1500.0	SOLID	4	500.0	
17+50.00	32+50.00	CENTERLINE	1500.0	SOLID	4	500.0	
17+50.00	32+50.00	LT	1500.0	DOUBLE	4	1,000.0	
32+50.00	37+59.00	LT	509.0	SOLID	4	169.7	
37+59.00	40+59.00	LT	300.0	SOLID	4	100.0	
40+59.00	41+26.00	LT	67.0	SOLID	4	22.3	
32+50.00	37+59.00	LT	509.0	DOUBLE	4	339.3	
37+59.00	40+59.00	LT	300.0	DOUBLE	4	200.0	
40+59.00	47+00.00	LT	641.0	DOUBLE	4	427.3	
32+50.00	37+59.00	CENTERLINE	509.0	SOLID	4	169.7	
37+59.00	41+61.00	LT	402.0	SOLID	4	134.0	
41+61.00	44+40.00	LT	279.0	SOLID	4	93.0	
44+40.00	47+00.00	RT	265.0	RAMP EDGE	4	88.3	
47+00.00	47+16.00	RT	16.0	RAMP EDGE	4	5.3	
46+00.00	47+00.00	RT	105.0	RAMP EDGE	4	35.0	
47+00.00	47+22.00	RT	24.0	RAMP EDGE	4	8.0	
46+00.00	47+00.00	RT	100.0	SOLID	4	33.3	
47+00.00	50+05.00	LT	305.0	SOLID	4	101.7	
47+00.00	50+20.00	LT	320.0	DOUBLE	4	213.3	
50+20.00	54+80.00	LT / RT	460.0	SOLID	4	153.3	
54+80.00	55+18.00	RT	38.0	SOLID	4	12.7	
50+20.00	54+73.00	LT	453.0	SOLID	4	151.0	
54+73.00	61+00.00	LT	627.0	SOLID	4	209.0	
61+00.00	67+82.00	LT	682.0	SOLID	4	227.3	
67+83.00	73+23.00	LT	540.0	SOLID	4	180.0	
50+05.00	54+80.00	LT / RT	475.0	SOLID	4	158.3	
54+80.00	55+18.00	RT	38.0	SOLID	4	12.7	
0+12.00		LT	24.0	SOLID	24	48.0	
STAGE 4 (BLACK TAPE)							
2+19.00	3+00.00	RT	81.0	SKIP DASH	5	8.4	
3+00.00	7+59.00	RT	459.0	SKIP DASH	5	47.8	
4+77.00	17+50.00	CENTERLINE	1273.0	DOUBLE	5	1,060.8	
4+77.00	17+50.00	LT	1273.0	SKIP DASH	5	132.6	
17+50.00	32+50.00	LT	1500.0	SKIP DASH	5	156.3	
17+50.00	32+50.00	CENTERLINE	1500.0	DOUBLE	5	1,250.0	
32+50.00	39+73.00	CENTERLINE	723.0	DOUBLE	5	602.5	
32+50.00	47+00.00	LT	1450.0	SKIP DASH	5	151.0	
45+00.00	46+60.00	RT	160.0	SKIP DASH	5	16.7	
46+35.00	47+00.00	RT	65.0	SOLID	5	27.1	
46+35.00	47+00.00	RT	65.0	SOLID	5	27.1	
47+00.00	47+22.00	RT	22.0	SOLID	5	9.2	
47+00.00	61+00.00	LT	1400.0	SKIP DASH	5	145.8	
54+00.00	55+17.00	RT	117.0	SKIP DASH	5	12.2	
61+00.00	73+23.00	LT	1223.0	SKIP DASH	5	127.4	
					TOTAL	27,764.7	

(*) PEORIA / TAZEWELL

FILE NAME = S:\Projects\2015 JOBS\151L004-00 QEI PTB 168-17 D4 Cedar St Bridge\CADD\CADD Sheets\D468A93-sht-Schedule.dgn
MODEL = Default
PLOT DRIVER = 151L004 PDF.plotcfg

QUIGG ENGINEERING INC

USER NAME = rgoertz	DESIGNED - RG	REVISED -	
D468A93-sht-Schedule.dgn	DRAWN - RG	REVISED -	
PLOT SCALE = 100.0000 ' / in.	CHECKED - MCV	REVISED -	
PLOT DATE = 10/05/2015	DATE - 10/02/2015	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SCHEDULE OF QUANTITIES

SCALE: | SHEET NO. OF SHEETS | STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
669	(103B)I-7	(*)	180	12
		CONTRACT NO. 68A93		
	ILLINOIS FED. AID PROJECT			

PAY ITEM NAME						UNIT	FINAL QUANTITY
TEMPORARY CONCRETE BARRIER						FOOT	3,225.0
STA	OFFSET	STA	OFFSET	LT / RT	SECTIONS	FOOT	
STAGE 1							
11+55.08	-9.8	12+56.41	-9.8	LT	8	101.33	
12+56.41	-9.8	13+44.77	-2.4	LT	7	88.67	
13+44.77	-2.4	39+41.42	-2.5	LT	205	2,596.65	
39+41.42	-2.5	40+67.80	-11.0	LT	10	126.67	
40+67.80	-11.0	43+71.80	-11.0	LT	24	304.00	
					TOTAL	3,217.32	

PAY ITEM NAME						UNIT	FINAL QUANTITY
RELOCATE TEMPORARY CONCRETE BARRIER						FOOT	8,062.5
STA	OFFSET	STA	OFFSET	LT / RT	SECTIONS	FOOT	
STAGE 2							
0+39.70	-2.5	2+04.37	-2.4	LT	13	164.67	
2+04.37	-2.4	15+34.36	-2.5	LT	105	1,329.99	
15+34.36	-2.5	16+10.42	-9.0	LT	6	76.34	
16+10.42	-9.0	17+11.75	-9.0	LT	8	101.33	
REMAINDER FROM STAGE 1					120	1,520.04	
STAGE 3							
0+58.73	2.0	2+10.73	2.4	RT	12	152.00	
2+10.73	2.4	15+28.06	2.4	RT	104	1,317.33	
15+28.06	2.4	16+16.48	9.0	RT	7	88.67	
16+16.48	9.0	17+18.03	9.0	RT	8	101.55	
REMAINDER FROM STAGE 2					1	12.67	
STAGE 4							
11+55.13	9.8	12+56.46	9.8	RT	8	101.33	
12+56.46	9.8	13+44.82	2.4	RT	7	88.67	
13+44.82	2.4	39+41.47	2.5	RT	205	2,596.65	
39+41.47	2.5	40+42.44	11.0	RT	8	101.33	
40+42.44	11.0	43+46.44	11.0	RT	24	304.00	
					TOTAL	8,056.57	

PAY ITEM NAME				UNIT	FINAL QUANTITY
IMPACT ATTENUATORS, TEMPORARY (NON- REDIRECTIVE), TEST LEVEL 3				EACH	2
STAGE 1					
STA	OFFSET	LT / RT		EACH	
11+55.1	9.8	LT		1	
43+72.6	11.0	LT		1	
			TOTAL	2	

PAY ITEM NAME				UNIT	FINAL QUANTITY
IMPACT ATTENUATORS, TEMPORARY (FULLY-REDIRECTIVE, NARROW), TEST LEVEL 3				EACH	1
STAGE 2					
STA	OFFSET	LT / RT		EACH	
0+40.0	2.5	LT		1	
			TOTAL	1	

PAY ITEM NAME				UNIT	FINAL QUANTITY
IMPACT ATTENUATORS, RELOCATE (FULLY REDIRECTIVE, NARROW), TEST LEVEL 3				EACH	1
STAGE 3					
STA	OFFSET	LT / RT		EACH	
0+57.0	2.0	RT		1	
			TOTAL	1	

PAY ITEM NAME				UNIT	FINAL QUANTITY
IMPACT ATTENUATORS, RELOCATE (NON- REDIRECTIVE), TEST LEVEL 3				EACH	5
STA	OFFSET	LT / RT		EACH	
STAGE 2					
17+11.9	9.0	LT		1	
		LT		1	
STAGE 3					
17+18.0	9.0	RT		1	
STAGE 4					
11+55.1	9.8	RT		1	
43+47.1	11.0	RT		1	
			TOTAL	5	

PAY ITEM NAME					UNIT	FINAL QUANTITY
PAINT PAVEMENT MARKING - LETTERS AND SYMBOLS					SQ FT	32
STA	LOCATION		DESCRIPTION		SQ FT	
102+34	TURN LANE		LEFT TURN ARROW		15.6	
102+97	TURN LANE		LEFT TURN ARROW		15.6	
				TOTAL	31.2	

(*) PEORIA / TAZEWELL

PAY ITEM NAME						UNIT	FINAL QUANTITY
PAINT PAVEMENT MARKING - LINE 4"						FOOT	32,523
STA	STA	LT / RT	LOCATION	DESCRIPTION	COLOR	FOOT	
102+09	103+65	LT	EDGE	SOLID	WHITE	156	
102+09	103+65	RT	EDGE	SOLID	WHITE	156	
102+09	103+65	RT	CENTER	DOUBLE	YELLOW	312	
104+23	105+83	LT	EDGE	SOLID	WHITE	160	
104+23	105+83	RT	EDGE	SOLID	WHITE	160	
104+23	105+83	CENTERLINE	CENTER	DOUBLE	YELLOW	320	
104+23	105+83	CENTERLINE	CENTER	DOUBLE	YELLOW	320	
106+77	108+41	LT	EDGE	SOLID	WHITE	164	
108+70	110+45	LT	EDGE	SOLID	WHITE	175	
106+77	108+45	RT	EDGE	SOLID	WHITE	168	
108+86	110+45	RT	EDGE	SOLID	WHITE	159	
106+77	110+45	CENTERLINE	CENTER	DOUBLE	YELLOW	736	
0+22	39+50	LT	EDGE	SOLID	WHITE	3,928	
0+30	39+50	RT	EDGE	SOLID	WHITE	3,920	
0+22	39+50	CENTERLINE	CENTER	DOUBLE	YELLOW	7,856	
39+50	44+58	LT	RAMP	SOLID	WHITE	508	
44+58	48+90	LT	RAMP	SOLID	WHITE	432	
39+50	43+82	RT	RAMP	SOLID	WHITE	432	
43+82	47+85	RT	RAMP	SOLID	WHITE	403	
39+50	74+43	LT	EDGE	SOLID	YELLOW	3,493	
39+50	74+43	RT	EDGE	SOLID	YELLOW	3,493	
48+90	62+31	LT	EDGE	SOLID	WHITE	1,341	
49+05	62+55	RT	EDGE	SOLID	WHITE	1,350	
62+50	66+12	LT	RAMP	SOLID	WHITE	362	
62+55	65+33	RT	RAMP	SOLID	WHITE	278	
65+33	67+54	RT	EDGE	SOLID	WHITE	221	
66+12	74+43	LT	EDGE	SOLID	WHITE	831	
67+54	74+43	RT	EDGE	SOLID	WHITE	689	
					TOTAL	32,523	

PAY ITEM NAME							UNIT	FINAL QUANTITY
PAINT PAVEMENT MARKING - LINE 6"							FOOT	4,253
STA	STA	LT / RT	LOCATION	DESCRIPTION	COLOR	PLACEMENT	FOOT	
105+89		LT / RT		CROSSWALK	WHITE		60	
105+97		LT / RT		CROSSWALK	WHITE		53	
106+62		LT / RT		CROSSWALK	WHITE		45	
106+70		LT / RT		CROSSWALK	WHITE		43	
102+09	103+65	LT	LANE	SKIP DASH	WHITE	25%	39	
102+09	103+65	RT	LANE	SKIP DASH	WHITE	25%	39	
104+23	105+83	LT	LANE	SKIP DASH	WHITE	25%	40	
104+23	105+83	RT	LANE	SKIP DASH	WHITE	25%	40	
106+77	110+45	LT	LANE	SKIP DASH	WHITE	25%	92	
106+77	110+45	RT	LANE	SKIP DASH	WHITE	25%	92	
0+22	74+43	LT	LANE	SKIP DASH	WHITE	25%	1,855	
0+22	74+43	RT	LANE	SKIP DASH	WHITE	25%	1,855	
						TOTAL	4,253	

PAY ITEM NAME						UNIT	FINAL QUANTITY
PAINT PAVEMENT MARKING - LINE 8"						FOOT	1,742
STA	STA	LT / RT	LOCATION	DESCRIPTION	COLOR	FOOT	
102+09	103+09	LT	TURN LANE	SOLID	WHITE	100	
44+58	48+90	LT	GORE	SOLID	WHITE	432	
44+58	48+90	LT	GORE	SOLID	WHITE	432	
46+68	47+88	RT	GORE	SOLID	WHITE	120	
46+68	49+05	RT	GORE	SOLID	WHITE	237	
62+31	63+38	LT	GORE	SOLID	WHITE	107	
62+48	63+38	LT	GORE	SOLID	WHITE	90	
62+55	63+67	RT	GORE	SOLID	WHITE	112	
62+55	63+67	RT	GORE	SOLID	WHITE	112	
					TOTAL	1,742	

PAY ITEM NAME						UNIT	FINAL QUANTITY
PAINT PAVEMENT MARKING - LINE 12"						FOOT	36
STA	STA	LT / RT	LOCATION	DESCRIPTION	COLOR	FOOT	
46+68	47+50	RT	GORE	GORE LINES	WHITE	36	
					TOTAL	36	

PAY ITEM NAME					UNIT	FINAL QUANTITY
PAINT PAVEMENT MARKING - LINE 24"					FOOT	120
STA	LT / RT	DESCRIPTION	COLOR	FOOT		
102+09	LT	STOP BAR	WHITE	32		
105+83	RT	STOP BAR	WHITE	24		
106+77	LT	STOP BAR	WHITE	20		
110+45	RT	STOP BAR	WHITE	20		
0+22	LT	STOP BAR	WHITE	24		
			TOTAL	120		

PAY ITEM NAME					UNIT	FINAL QUANTITY
BARRIER WALL MARKER, TYPE C					EACH	333
STA	STA	LT / RT	LOCATION	SPACING	EACH	
0+20	0+58	LT	BARRIER WALL	25'	2	
0+58	37+60	LT	PARAPET	25'	149	
37+60	41+78	LT	BARRIER WALL	25'	17	
0+20	0+58	RT	BARRIER WALL	25'	2	
0+58	37+60	RT	PARAPET	25'	149	
37+60	41+10	RT	BARRIER WALL	25'	14	
				TOTAL	333	

PAY ITEM NAME	UNIT	FINAL QUANTITY
TRAFFIC CONTROL AND PROTECTION, (SPECIAL)	L SUM	1
LOCATION	L SUM	
JOB SITE	1	
TOTAL	1	

PAY ITEM NAME	UNIT	FINAL QUANTITY
CHANGEABLE MESSAGE SIGN	CAL DA	156
LOCATION	CAL DA	
3 LOCATIONS - TBD	156	
TOTAL	156	

PAY ITEM NAME	UNIT	FINAL QUANTITY
CONSTRUCTION LAYOUT	L SUM	1
LOCATION	L SUM	
JOB SITE	1	
TOTAL	1	

PAY ITEM NAME	UNIT	FINAL QUANTITY
DETOUR SIGNING	L SUM	1
LOCATION	L SUM	
JOB SITE	1	
TOTAL	1	

PAY ITEM NAME	UNIT	FINAL QUANTITY
RAILROAD PROTECTIVE LIABILITY INSURANCE	L SUM	1
LOCATION	L SUM	
JOB SITE	1	
TOTAL	1	

(*) PEORIA / TAZEWELL

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QUIGG ENGINEERING INC

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PLOT DATE = 10/05/2015	DATE - 10/02/2015	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SCHEDULE OF QUANTITIES

SCALE: | SHEET NO. OF SHEETS | STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
669	(103B)I-7	(*)	180	14
		CONTRACT NO. 68A93		
	ILLINOIS FED. AID PROJECT			

BENCHMARK #1

CAP BOLT BETWEEN THE E&L IN MUELLER ON THE FIRE HYDRANT AT THE NORTHEAST QUADRANT OF WASHINGTON AND MACARTHUR
STA 110+47.04, 31.83' LT
ELEVATION = 486.226

BENCHMARK #2

NORTH CAP BOLT MARKED WITH AN "X" ON A FIRE HYDRANT ON THE WEST SIDE OF CEDAR STREET BRIDGE, BETWEEN PIER #5 & #6
STA 3+01.61, 35.51' RT
ELEVATION = 470.220

BENCHMARK #3

TOP OF THE NORTHEAST BOLT OF OF THE STEEL PIER BEARING ON THE EAST PAD OF PIER #8
STA 4+99.31, 18.29' LT
ELEVATION = 466.705

BENCHMARK #4

TOP OF A RR SPIKE HEAD IN THE SOUTH FACE OF A POWER POLE NORTHEAST OF PIER #8
STA 5+07.63, 425.07' LT
ELEVATION = 467.381

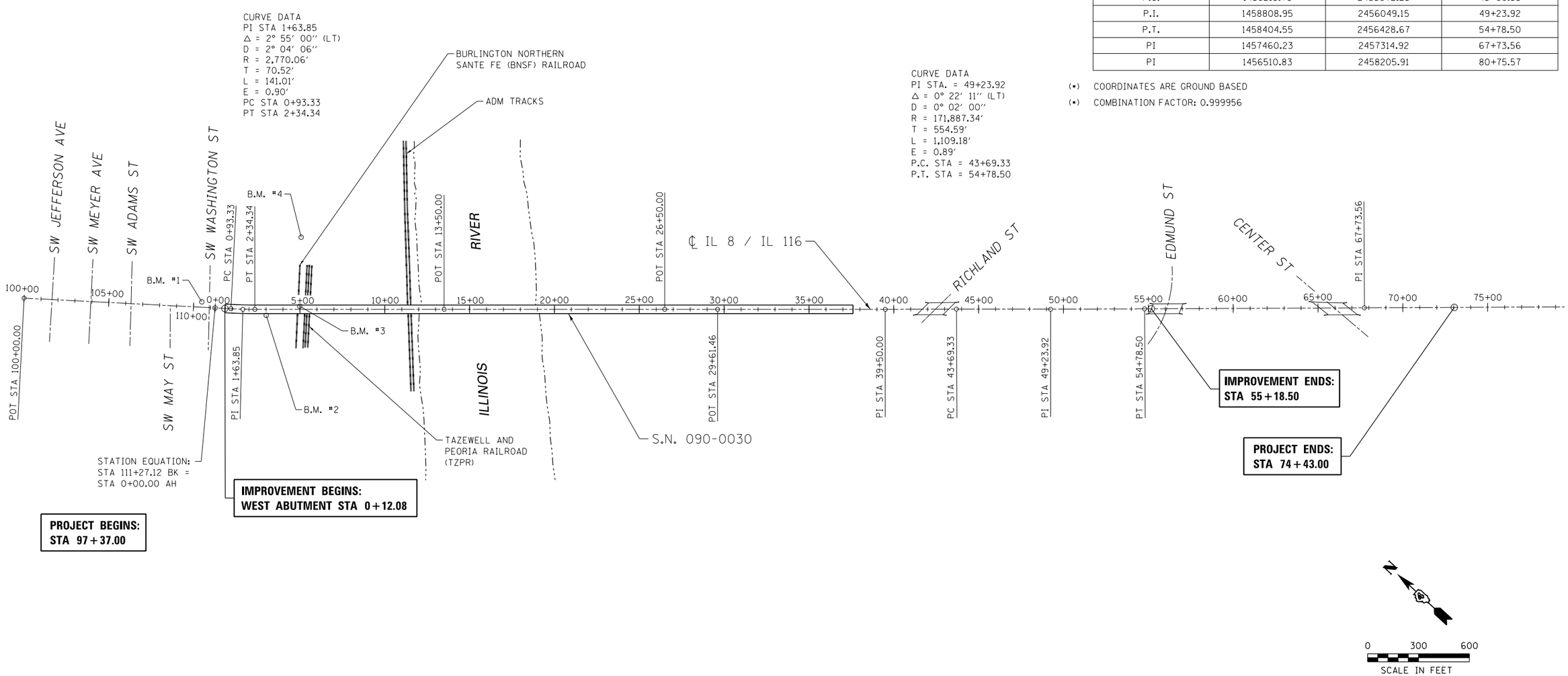
ALIGNMENT CONTROL			
DESCRIPTION	NORTHING (•)	EASTING (•)	STA
CONTROL PT 12	1456620.63	2458869.40	-
CONTROL PT 14	1462188.55	2452824.02	-
P.C.	1462348.56	2452762.05	0+93.33
P.I.	1462294.54	2452807.38	1+63.85
P.T.	1462242.90	2452855.40	2+34.34
PI	1463283.76	2451977.89	100+00.00
PI	1462420.05	2452702.05	0+00.00
PI	1461425.87	2453615.11	13+50.00
PI	1460473.85	2454500.35	26+50.00
PI	1460245.76	2454712.44	29+61.46
PI	1459521.82	2455385.59	39+50.00
P.C.	1459215.78	2455672.25	43+69.33
P.I.	1458808.95	2456049.15	49+23.92
P.T.	1458404.55	2456428.67	54+78.50
PI	1457460.23	2457314.92	67+73.56
PI	1456510.83	2458205.91	80+75.57

(•) COORDINATES ARE GROUND BASED

(•) COMBINATION FACTOR: 0.999956

CURVE DATA
PI STA 1+63.85
Δ = 2° 55' 00" (LT)
D = 2° 04' 06"
R = 2,770.06'
T = 70.52'
L = 141.01'
E = 0.90'
PC STA 0+93.33
PT STA 2+34.34

CURVE DATA
PI STA. = 49+23.92
Δ = 0° 22' 11" (LT)
D = 0° 02' 00"
R = 171,887.34'
T = 554.59'
L = 1,109.18'
E = 0.89'
P.C. STA = 43+69.33
P.T. STA = 54+78.50



(•) PEORIA / TAZEWELL

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QUIGG ENGINEERING INC

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D468A93-sht-ATB.dgn	DRAWN - RG	REVISED -	
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PLOT DATE = 10/05/2015	DATE - 10/02/2015	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ALIGNMENT, TIES AND BENCHMARKS

SCALE: | SHEET NO. OF SHEETS | STA. | TO STA.

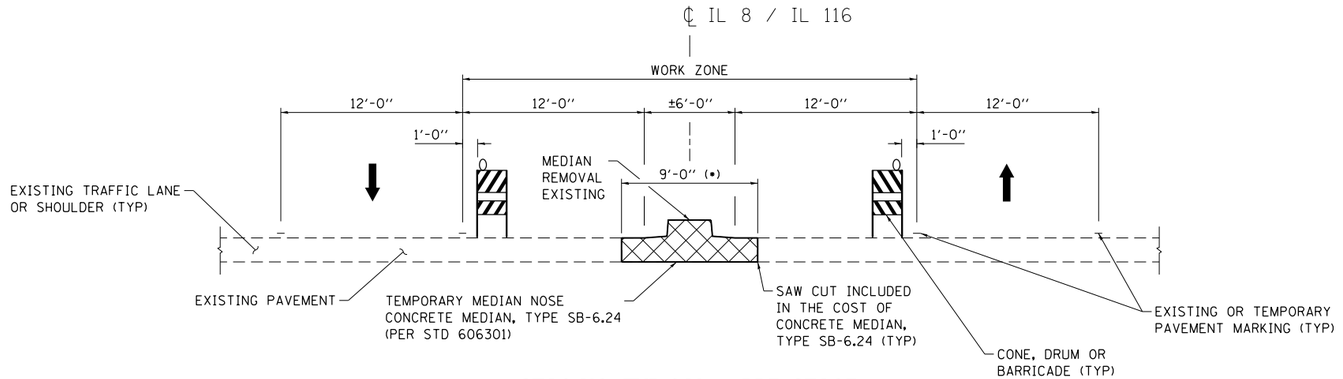
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
669	(103B)I-7	(•)	180	15
		CONTRACT NO. 68A93		
	ILLINOIS FED. AID PROJECT			

PRE–STAGE 1 STAGING NOTES

1. PRIOR TO PRE-STAGE 1 CONSTRUCTION, THE CONTRACTOR SHALL PLACE ALL SIGNAGE, DELINEATORS, AND TEMPORARY PAVEMENT MARKING AS DETAILED IN THE PLANS.
2. WESTBOUND AND EASTBOUND TRAFFIC WILL BE REDUCED TO 1 LANE IN EACH DIRECTION AS DETAILED IN THE PLANS.

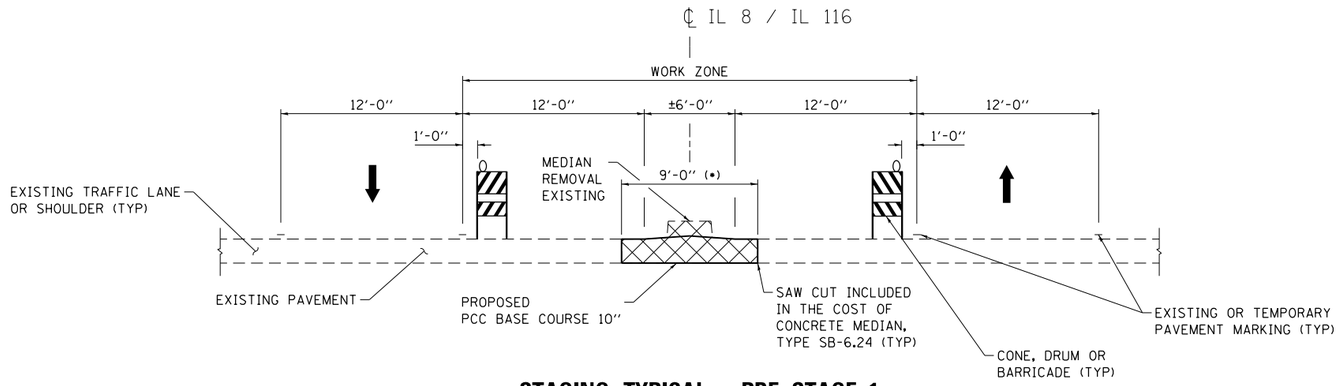
PRE–STAGE 1 CONSTRUCTION NOTES

1. THE CONTRACTOR SHALL REMOVE A PORTION OF THE EXISTING MEDIAN EAST OF CEDAR STREET BRIDGE AND PLACE PCC BASE COURSE 10" OR TEMPORARY MEDIAN NOSES AS DETAILED FOR STAGE 1 AND STAGE 2 TRAFFIC.



STAGING TYPICAL – PRE–STAGE 1

STA 44+17.60 TO STA 44+23.60
STA 55+11.50 TO STA 55+18.50



STAGING TYPICAL – PRE–STAGE 1

STA 44+23.60 TO STA 55+11.50

NOTE:

(•) ASSUMED 2' GUTTER FOR QUANTITY PURPOSES

(•) PEORIA / TAZEWELL

FILE NAME = S:\Projects\2015 JOBS\15IL004-00 QEI PTB 168-17 04 Cedar St Bridge\CADD\CADD Sheets\D468A93-sht-Staging-Prel_Typ.dgn
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QUIGG ENGINEERING INC

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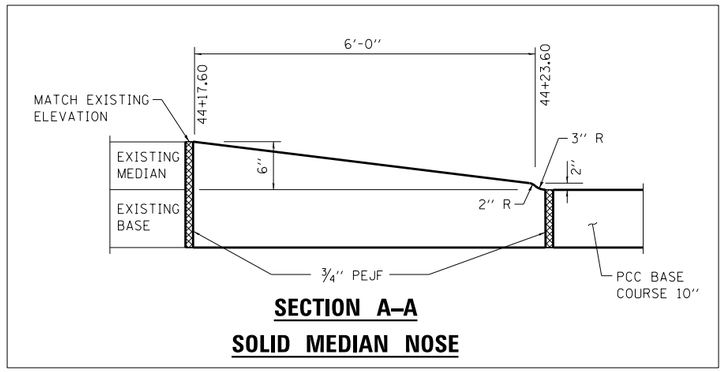
PLOT DATE = 10/05/2015	DATE - 10/02/2015	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

MAINTENANCE OF TRAFFIC – NOTES AND TYPICAL SECTION
PRE–STAGE 1

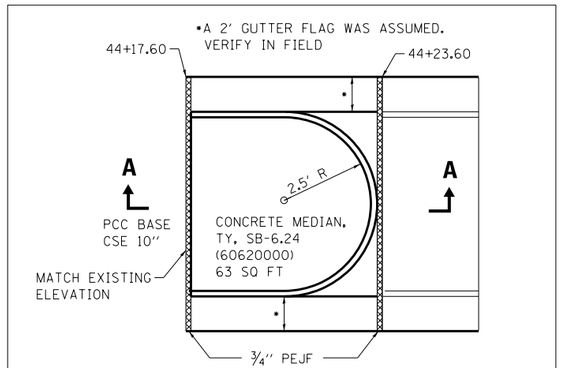
SCALE: NONE | SHEET NO. OF SHEETS | STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
669	(103B)I-7	(•)	180	16
		CONTRACT NO. 68A93		
	ILLINOIS FED. AID PROJECT			

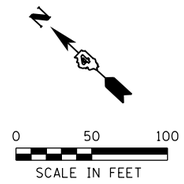


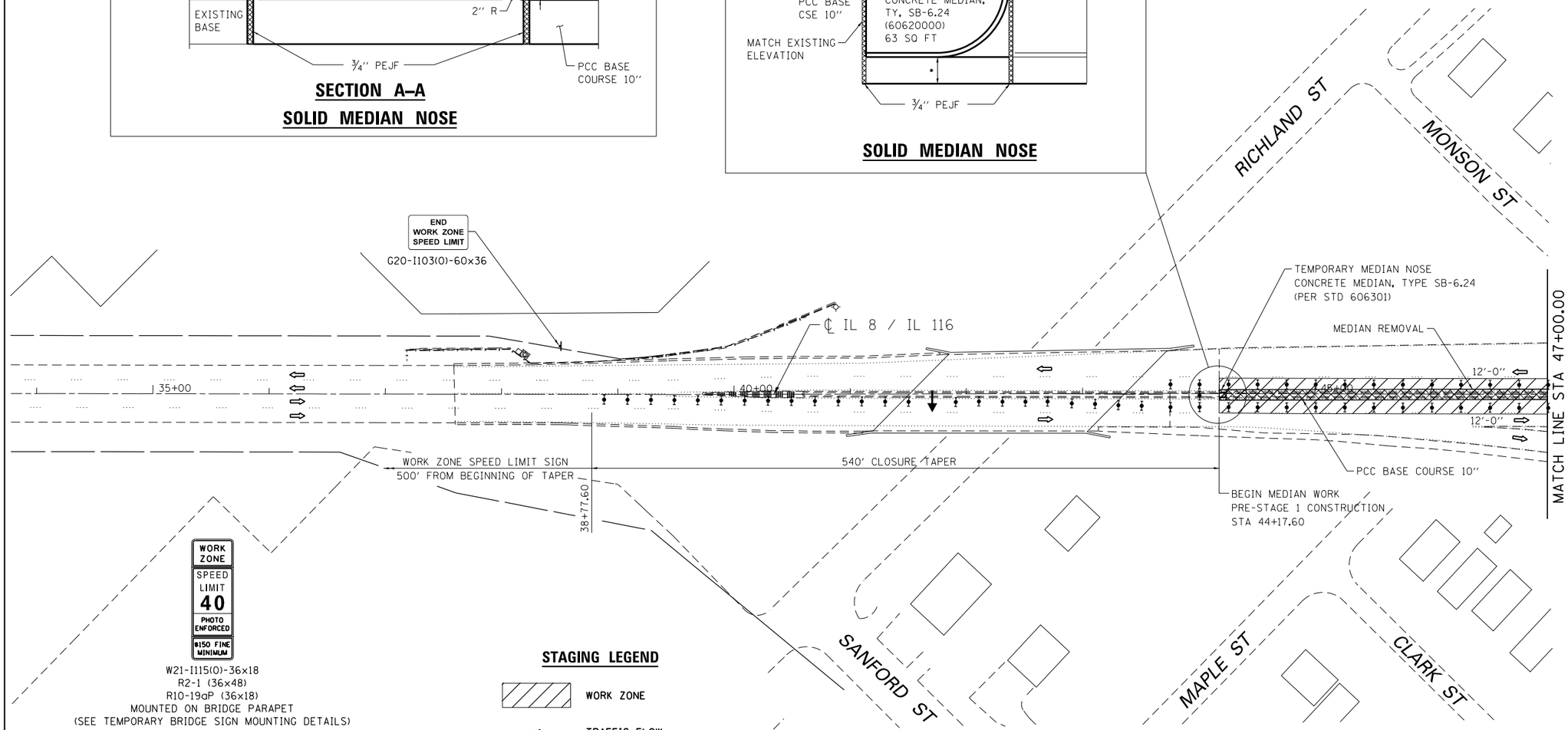
SECTION A–A

SOLID MEDIAN NOSE



SOLID MEDIAN NOSE





STAGING LEGEND

- WORK ZONE
- TRAFFIC FLOW
- SIGN
- TYPE II BARRICADE, DRUM W/ STEADY BURN MONODIRECTIONAL LIGHT — SEE STD 701601
- TYPE III BARRICADE
- TEMPORARY CONCRETE BARRIER WALL
- IMPACT ATTENUATORS
- ARROW BOARD

(•) PEORIA / TAZEWELL

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	PLOT DATE = 10/05/2015	DATE - 10/02/2015	REVISED -		SCALE: 1" = 50' SHEET NO. OF SHEETS STA. TO STA.

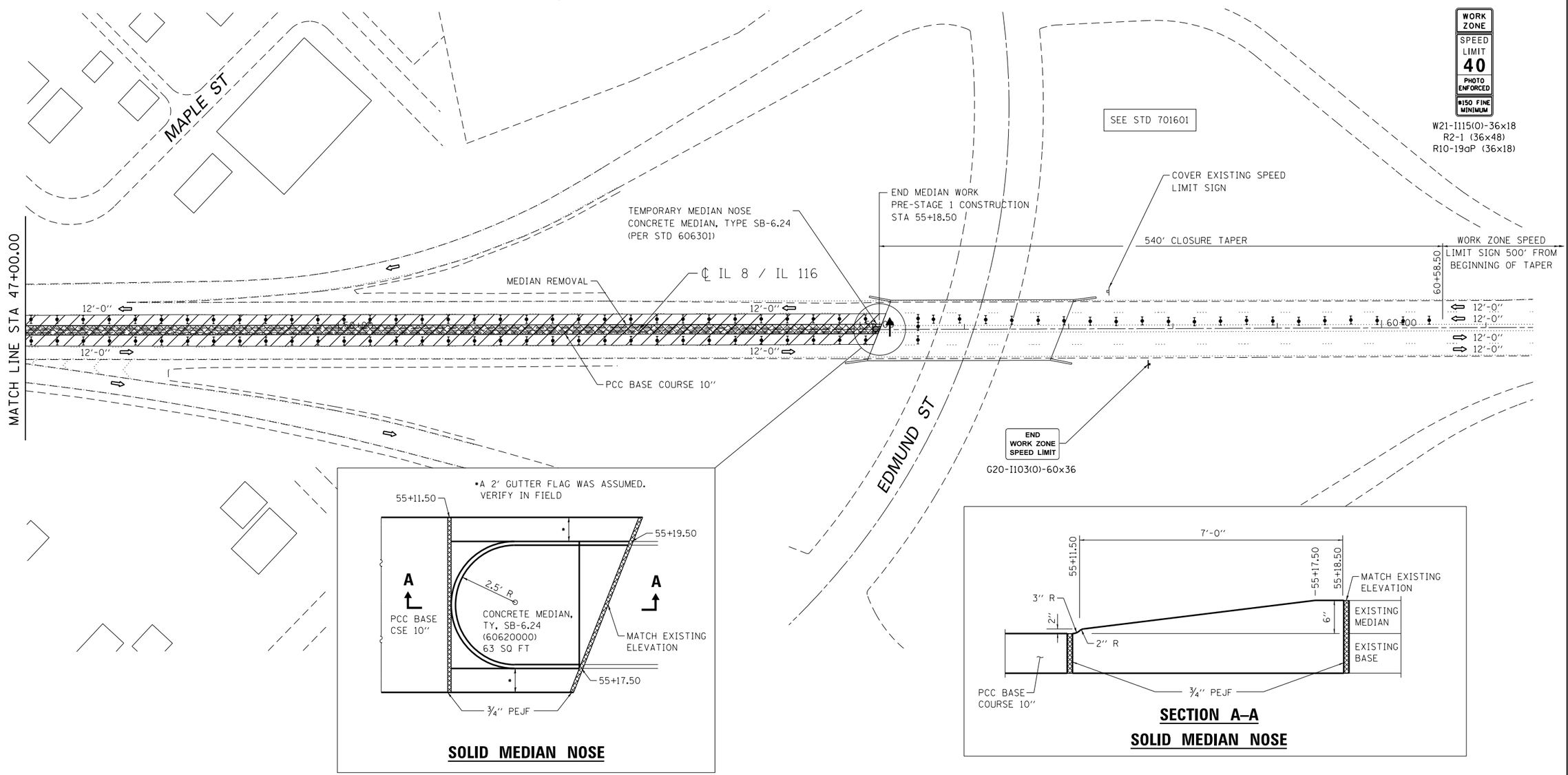
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
669	(103B)I-7	(•)	180	17
		CONTRACT NO. 68A93		
		ILLINOIS FED. AID PROJECT		

STAGING LEGEND

- WORK ZONE
- TRAFFIC FLOW
- SIGN
- TYPE II BARRICADE, DRUM W/ STEADY BURN MONODIRECTIONAL LIGHT
- TYPE III BARRICADE
- TEMPORARY CONCRETE BARRIER WALL
- IMPACT ATTENUATORS
- ARROW BOARD

N

0 50 100
SCALE IN FEET



SOLID MEDIAN NOSE

SECTION A–A

SOLID MEDIAN NOSE

(•) PEORIA / TAZEWELL

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QUIGG ENGINEERING INC

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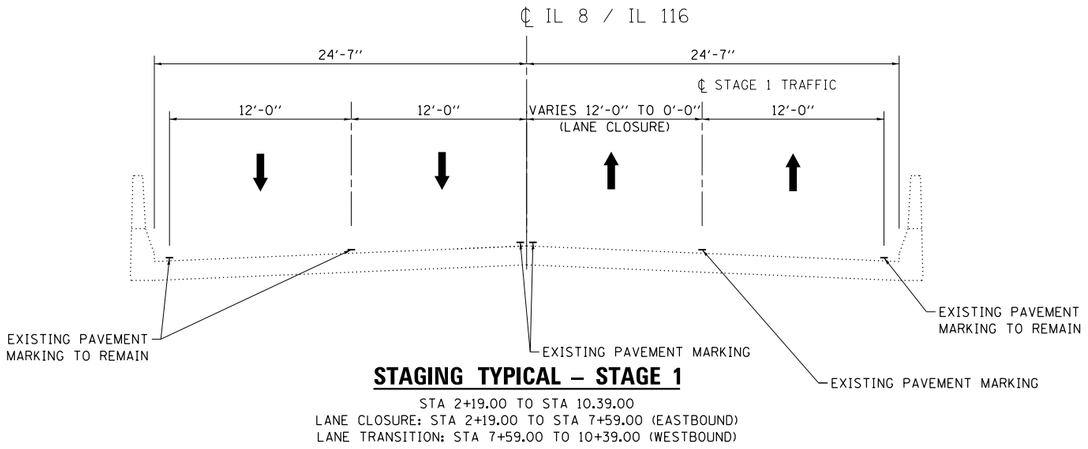
PLOT DATE = 10/05/2015	DATE - 10/02/2015	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

MAINTENANCE OF TRAFFIC – MEDIAN REMOVAL
PRE-STAGE 1

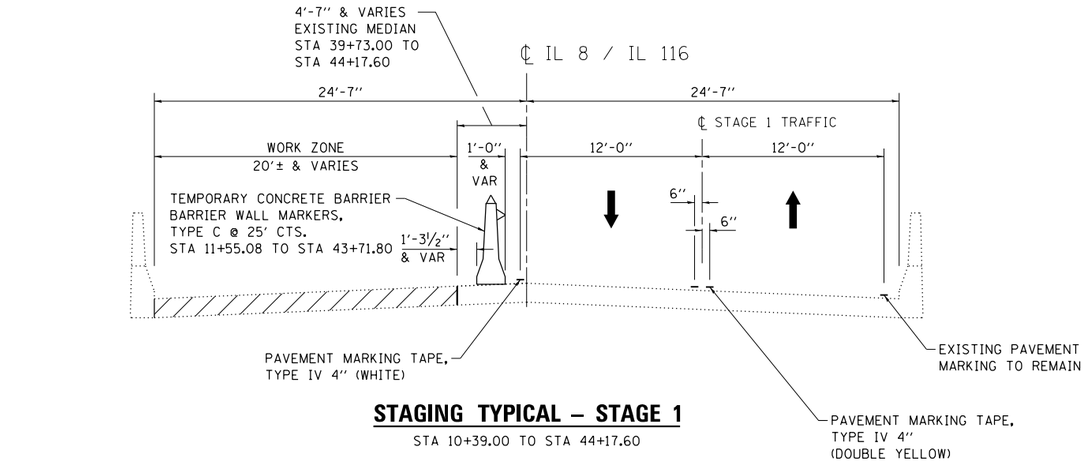
SCALE: 1" = 50' | SHEET NO. OF SHEETS | STA. | TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
669	(103B)I-7	(•)	180	18
		CONTRACT NO. 68A93		
	ILLINOIS FED. AID PROJECT			



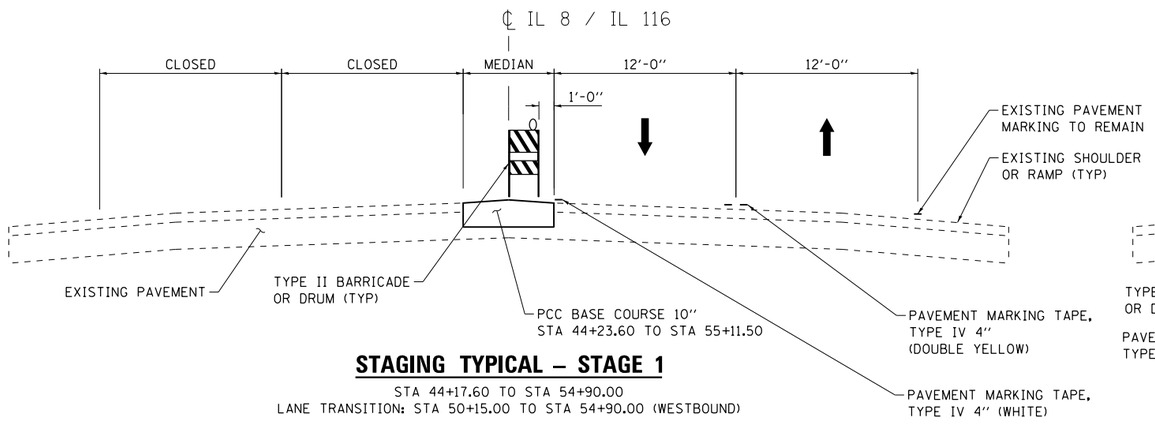
STAGING TYPICAL – STAGE 1

STA 2+19.00 TO STA 10.39.00
LANE CLOSURE: STA 2+19.00 TO STA 7+59.00 (EASTBOUND)
LANE TRANSITION: STA 7+59.00 TO 10+39.00 (WESTBOUND)



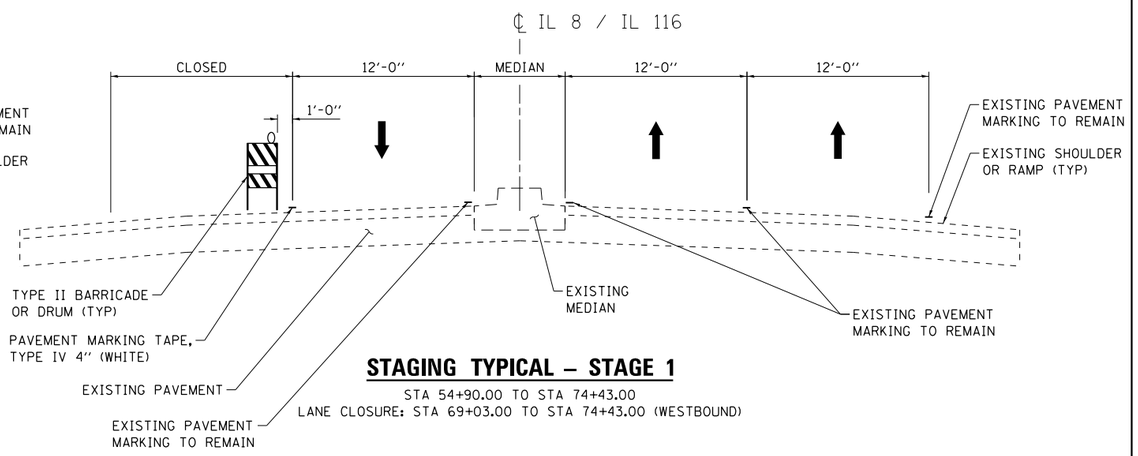
STAGING TYPICAL – STAGE 1

STA 10+39.00 TO STA 44+17.60



STAGING TYPICAL – STAGE 1

STA 44+17.60 TO STA 54+90.00
LANE TRANSITION: STA 50+15.00 TO STA 54+90.00 (WESTBOUND)



STAGING TYPICAL – STAGE 1

STA 54+90.00 TO STA 74+43.00
LANE CLOSURE: STA 69+03.00 TO STA 74+43.00 (WESTBOUND)

STAGE 1 STAGING NOTES

1. ALL TRAFFIC CONTROL SIGNING AND DEVICES DETAILED AND NOTED IN STAGE 1 PLANS SHALL BE IN PLACE PRIOR TO BEGINNING ANY BRIDGE REPAIRS UNLESS APPROVED IN WRITING BY THE ENGINEER.
2. WESTBOUND AND EASTBOUND TRAFFIC WILL BE REDUCED TO 1 LANE IN EACH DIRECTION AS DETAILED IN THE PLANS.
3. BOTH LANES OF TRAFFIC WILL BE SHIFTED TO THE SOUTH SIDE OF CEDAR STREET BRIDGE WITH TEMPORARY CONCRETE BARRIER DIVIDING TRAFFIC FROM THE WORK ZONE.
4. ALL CONFLICTING EXISTING STRIPING SHALL BE COVERED WITH PAVEMENT MARKING BLACKOUT TAPE, 5''.

STAGE 1 CONSTRUCTION NOTES

COMPLETE THE FOLLOWING IMPROVEMENTS TO THE NORTH SIDE OF CEDAR STREET BRIDGE:

- STRUCTUAL STEEL REPAIRS
- DECK AND PARAPET REPAIRS
- EXPANSION JOINT REPLACEMENTS
- OTHER MISCELLANEOUS REPAIRS AS DETAILED IN THE STRUCTURE PLANS

(•) PEORIA / TAZEWELL

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QUIGG ENGINEERING INC

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PLOT DATE = 10/05/2015	DATE - 10/02/2015	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

MAINTENANCE OF TRAFFIC – NOTES AND TYPICAL SECTIONS
STAGE 1

SCALE: NONE | SHEET NO. OF SHEETS | STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
669	(103B)I-7	(•)	180	19

CONTRACT NO. 68A93

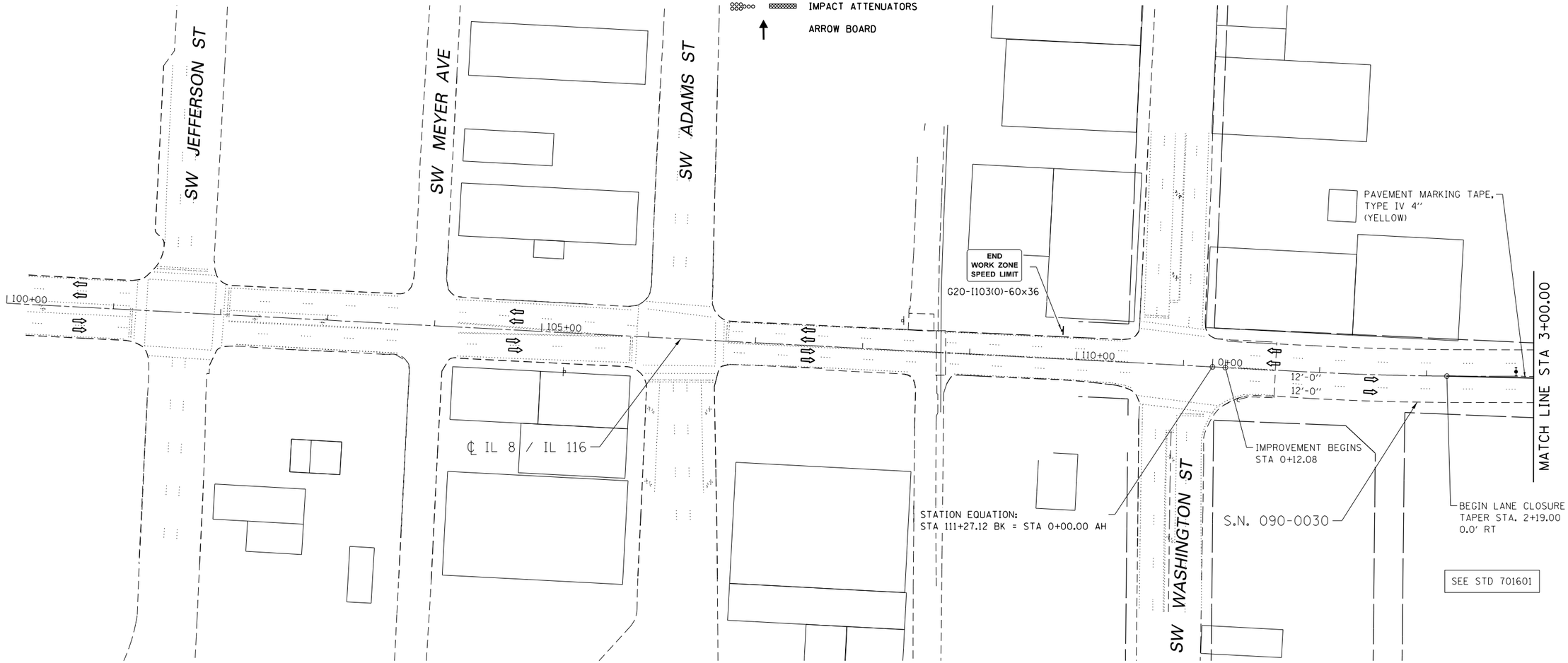
ILLINOIS FED. AID PROJECT

STAGING LEGEND

- WORK ZONE
- TRAFFIC FLOW
- SIGN
- TYPE II BARRICADE, DRUM W/ STEADY BURN MONODIRECTIONAL LIGHT
- TYPE III BARRICADE
- TEMPORARY CONCRETE BARRIER WALL
- IMPACT ATTENUATORS
- ARROW BOARD

N

0 50 100
SCALE IN FEET



(•) PEORIA / TAZEWELL

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PLOT DATE = 10/05/2015	DATE - 10/02/2015	REVISED -	

QUIGG ENGINEERING INC

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

MAINTENANCE OF TRAFFIC – BRIDGE REPAIR
STAGE 1

SCALE: 1" = 50' | SHEET NO. OF SHEETS | STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
669	(103B)I-7	(•)	180	20
		CONTRACT NO. 68A93		
	ILLINOIS FED. AID PROJECT			

FILE NAME = S:\Projects\2015 JOBS\15IL004-00 QEI PTB 168-17 D4 Cedar St Bridge\CADD\CADD Sheets\D468A93-sht-Staging-1.01.dgn
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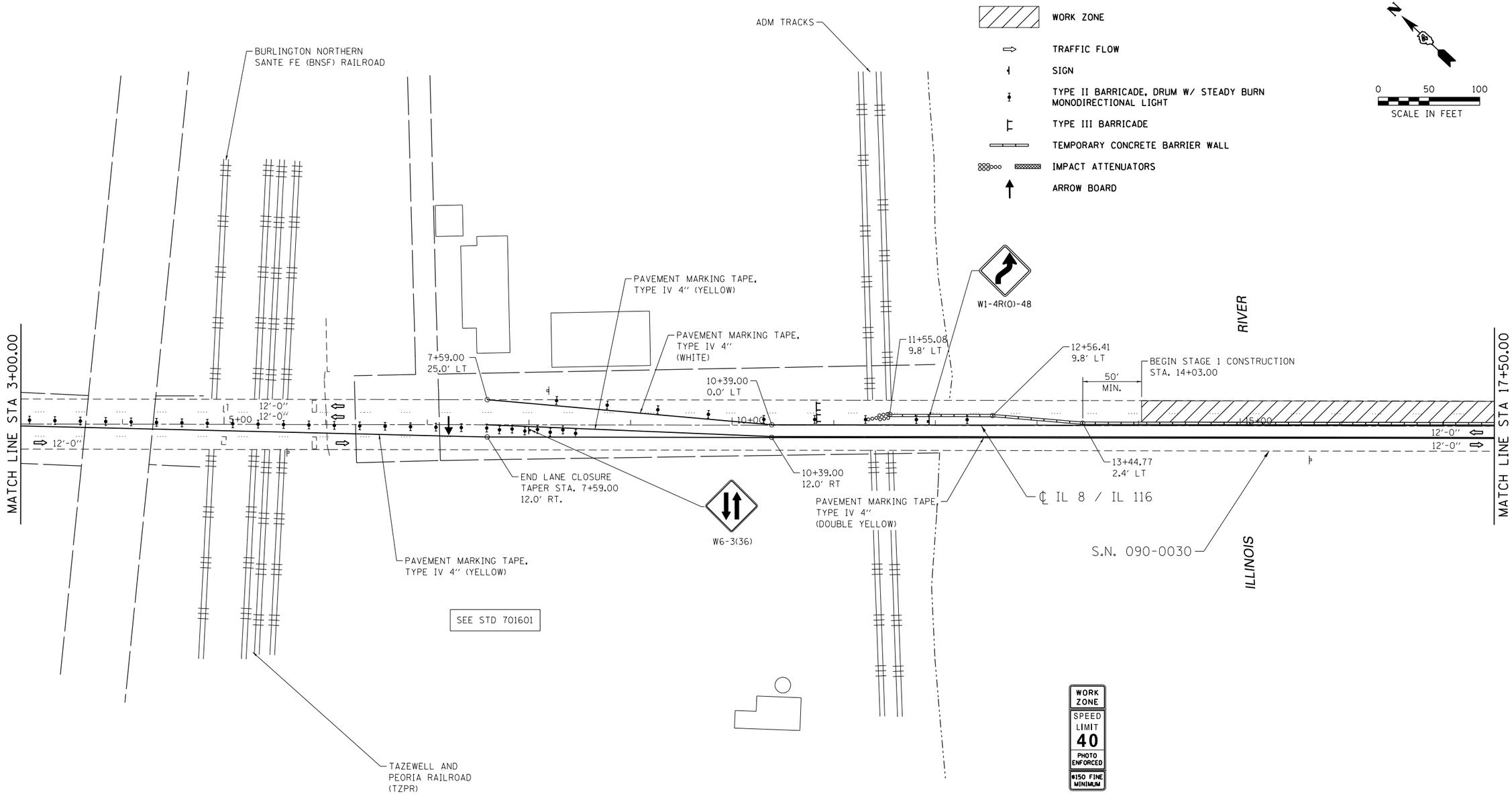
STAGING LEGEND

- WORK ZONE
- TRAFFIC FLOW
- SIGN
- TYPE II BARRICADE, DRUM W/ STEADY BURN MONODIRECTIONAL LIGHT
- TYPE III BARRICADE
- TEMPORARY CONCRETE BARRIER WALL
- IMPACT ATTENUATORS
- ARROW BOARD

N

0 50 100
SCALE IN FEET



WORK ZONE
SPEED LIMIT 40
PHOTO ENFORCED
$150 FINE MINIMUM

W21-1115(O)-36x18
R2-1 (36x48)
R10-19aP (36x18)
COVER EXISTING
SPEED LIMIT SIGN
ON CEDAR STREET BRIDGE
WITH ABOVE ASSEMBLY

(•) PEORIA / TAZEWELL

QUIGG ENGINEERING INC

USER NAME = rgoertz	DESIGNED - RG	REVISED -
D468A93-sht-Staging-1_02.dgn	DRAWN - RG	REVISED -
PLOT SCALE = 100.0000 ' / in.	CHECKED - MCV	REVISED -
PLOT DATE = 10/05/2015	DATE - 10/02/2015	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

MAINTENANCE OF TRAFFIC – BRIDGE REPAIR
STAGE 1

SCALE: 1" = 50' | SHEET NO. OF SHEETS | STA. | TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
669	(103B)I-7	(•)	180	21
		CONTRACT NO. 68A93		
	ILLINOIS	FED. AID PROJECT		

FILE NAME = S:\Projects\2015 JOBS\15IL004-00 QEI PTB 168-17 D4 Cedar St Bridge\CADD\CADD Sheets\D468A93-sht-Staging-1_02.dgn
MODEL = Default
PLOT DRIVER = 15IL004 PDF.pltcfg

STAGING LEGEND

- WORK ZONE
- TRAFFIC FLOW
- SIGN
- TYPE II BARRICADE, DRUM W/ STEADY BURN MONODIRECTIONAL LIGHT
- TYPE III BARRICADE
- TEMPORARY CONCRETE BARRIER WALL
- IMPACT ATTENUATORS
- ARROW BOARD

N

0 50 100
SCALE IN FEET

LEVEE RD

TRACTOR DR

MATCH LINE STA 17+50.00

MATCH LINE STA 32+50.00

20+00 25+00 30+00

12'-0" 12'-0"

12'-0" 12'-0"

PAVEMENT MARKING TAPE, TYPE IV 4" (DOUBLE YELLOW)

PAVEMENT MARKING TAPE, TYPE IV 4" (WHITE)

℄ IL 8 / IL 116

S.N. 090-0030

(•) PEORIA / TAZEWELL

FILE NAME = S:\Projects\2015 JOBS\15IL004-00 QEI PTB 168-17 D4 Cedar St Bridge\CADD\CADD Sheets\D468A93-sht-Staging-1.03.dgn
MODEL = Default
PLOT DRIVER = 15IL004 PDF.pltcfg

QUIGG ENGINEERING INC

USER NAME = rgoertz	DESIGNED - RG	REVISED -
D468A93-sht-Staging-1.03.dgn	DRAWN - RG	REVISED -
PLOT SCALE = 100.0000 ' / in.	CHECKED - MCV	REVISED -
PLOT DATE = 10/05/2015	DATE - 10/02/2015	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

MAINTENANCE OF TRAFFIC – BRIDGE REPAIR
STAGE 1

SCALE: 50' | SHEET NO. OF SHEETS | STA. TO STA.

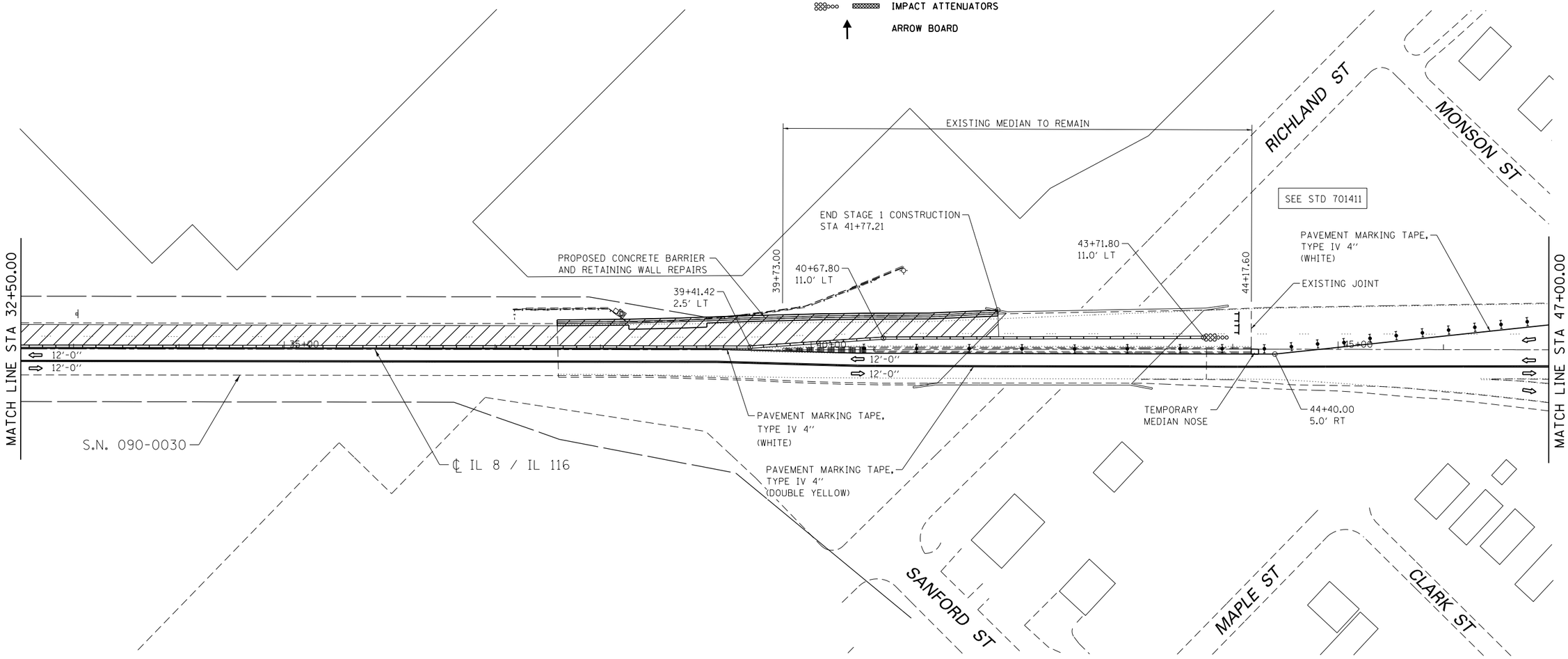
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
669	(103B)I-7	(•)	180	22
		CONTRACT NO. 68A93		
	ILLINOIS FED. AID PROJECT			

STAGING LEGEND

- WORK ZONE
- TRAFFIC FLOW
- SIGN
- TYPE II BARRICADE, DRUM W/ STEADY BURN MONODIRECTIONAL LIGHT
- TYPE III BARRICADE
- TEMPORARY CONCRETE BARRIER WALL
- IMPACT ATTENUATORS
- ARROW BOARD

N

0 50 100
SCALE IN FEET



(•) PEORIA / TAZEWELL

QUIGG ENGINEERING INC

USER NAME = rgoertz	DESIGNED - RG	REVISED -
D468A93-sht-Staging-1_04.dgn	DRAWN - RG	REVISED -
PLOT SCALE = 100.0000 ' / in.	CHECKED - MCV	REVISED -
PLOT DATE = 10/05/2015	DATE - 10/02/2015	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

MAINTENANCE OF TRAFFIC – BRIDGE REPAIR
STAGE 1

SCALE: 1" = 50' | SHEET NO. OF SHEETS | STA. | TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
669	(103B)I-7	(•)	180	23
		CONTRACT NO. 68A93		
	ILLINOIS FED. AID PROJECT			

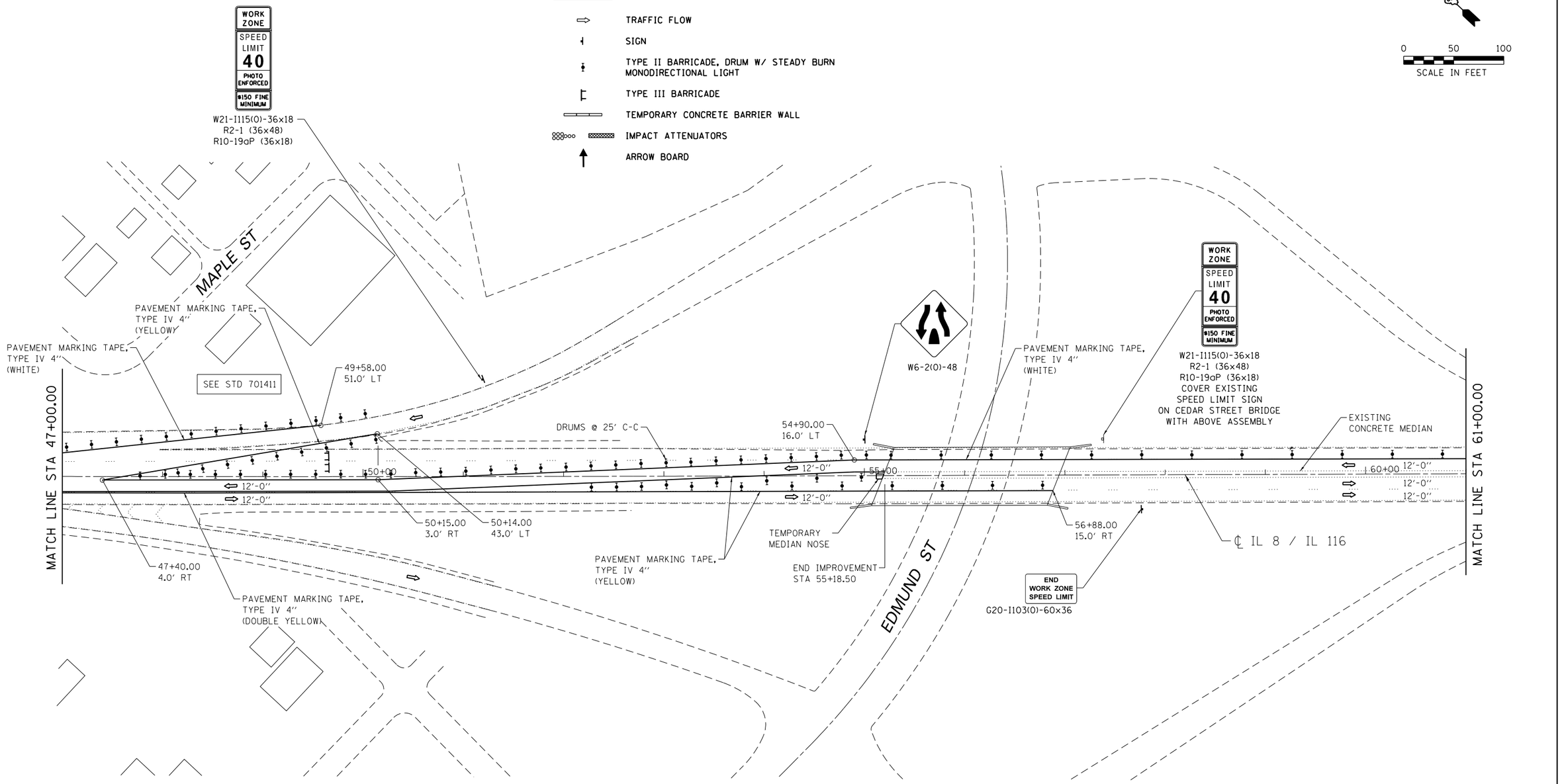
FILE NAME = S:\Projects\2015 JOBS\15IL024-00 QEI PTB 168-17 D4 Cedar St Bridge\CADD\CADD Sheets\D468A93-sht-Staging-1_04.dgn
MODEL = Default
PLOT DRIVER = 15IL024 PDF.pltcfg

STAGING LEGEND

- WORK ZONE
- TRAFFIC FLOW
- SIGN
- TYPE II BARRICADE, DRUM W/ STEADY BURN MONODIRECTIONAL LIGHT
- TYPE III BARRICADE
- TEMPORARY CONCRETE BARRIER WALL
- IMPACT ATTENUATORS
- ARROW BOARD

N

0 50 100
SCALE IN FEET



(•) PEORIA / TAZEWELL

USER NAME = rgoertz	DESIGNED - RG	REVISED -	
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PLOT SCALE = 100.0000 ' / in.	CHECKED - MCV	REVISED -	
PLOT DATE = 10/05/2015	DATE - 10/02/2015	REVISED -	

QUIGG ENGINEERING INC

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

MAINTENANCE OF TRAFFIC – BRIDGE REPAIR
STAGE 1

SCALE: 1" = 50' | SHEET NO. OF SHEETS | STA. | TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
669	(103B)I-7	(•)	180	24
		CONTRACT NO. 68A93		
	ILLINOIS FED. AID PROJECT			

FILE NAME = S:\Projects\2015 JOBS\15IL004-00 QEI PTB 168-17 D4 Cedar St Bridge\CADD\CADD Sheets\D468A93-sht-Staging-1_05.dgn
MODEL = Default
PLOT DRIVER = 15IL004 PDF.plotcfg

STAGING LEGEND

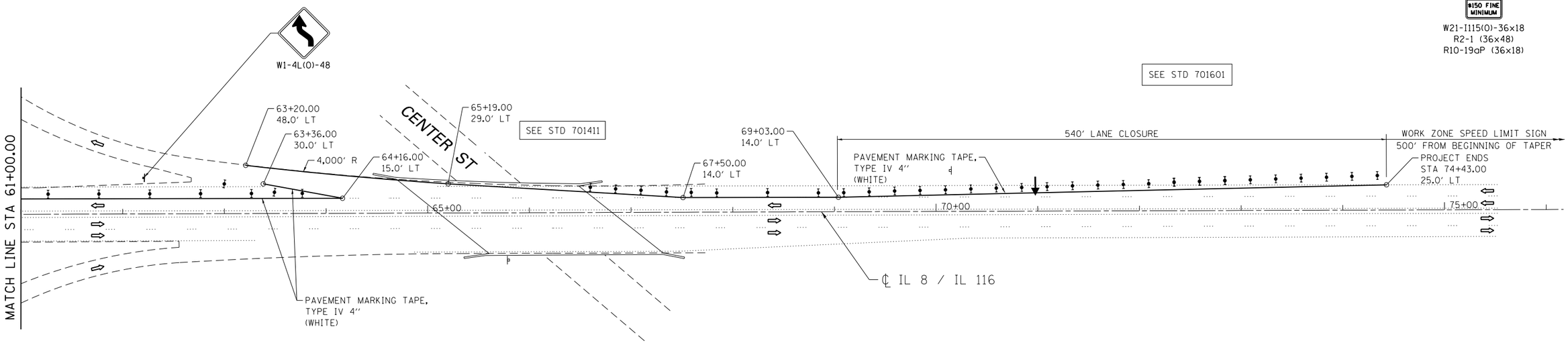
- WORK ZONE
- TRAFFIC FLOW
- SIGN
- TYPE II BARRICADE, DRUM W/ STEADY BURN MONODIRECTIONAL LIGHT
- TYPE III BARRICADE
- TEMPORARY CONCRETE BARRIER WALL
- IMPACT ATTENUATORS
- ARROW BOARD

N

0 50 100

SCALE IN FEET

W21-I115(O)-36x18
R2-1 (36x48)
R10-19aP (36x18)



(•) PEORIA / TAZEWELL

QUIGG ENGINEERING INC	USER NAME = rgoertz	DESIGNED - RG	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	MAINTENANCE OF TRAFFIC – BRIDGE REPAIR STAGE 1
	D468A93-sht-Staging-1.06.dgn	DRAWN - RG	REVISED -		
	PLOT SCALE = 100.0000 ' / in.	CHECKED - MCV	REVISED -		
	PLOT DATE = 10/05/2015	DATE - 10/02/2015	REVISED -		SCALE: 1" = 50' SHEET NO. OF SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
669	(103B)I-7	(•)	180	25
		CONTRACT NO. 68A93		
	ILLINOIS	FED. AID PROJECT		

FILE NAME = S:\Projects\2015 JOBS\15IL004-00 QEI PTB 168-17 D4 Cedar St Bridge\CADD\CADD Sheets\D468A93-sht-Staging-1.06.dgn
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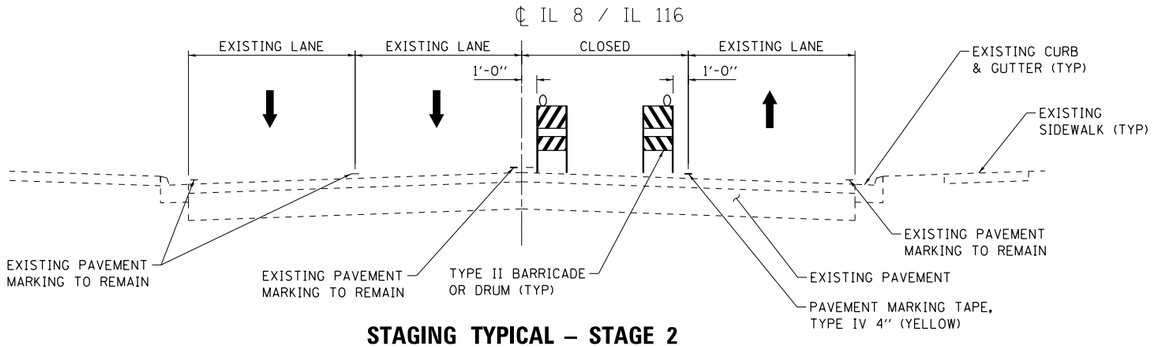
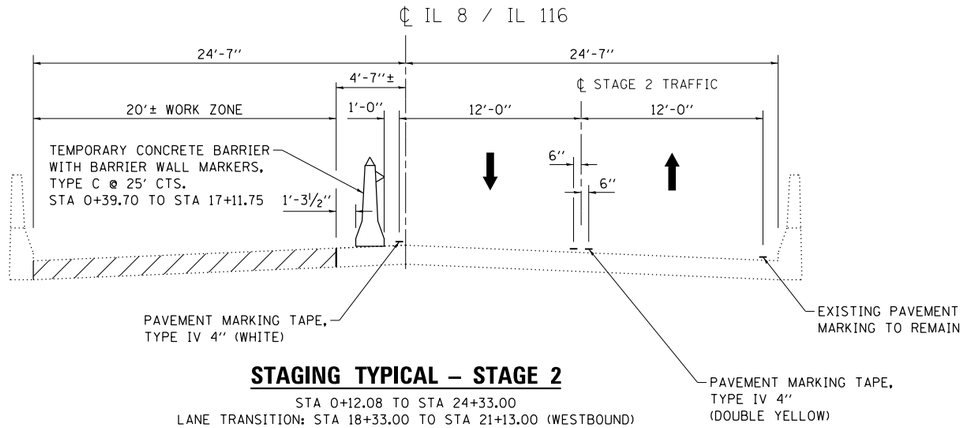


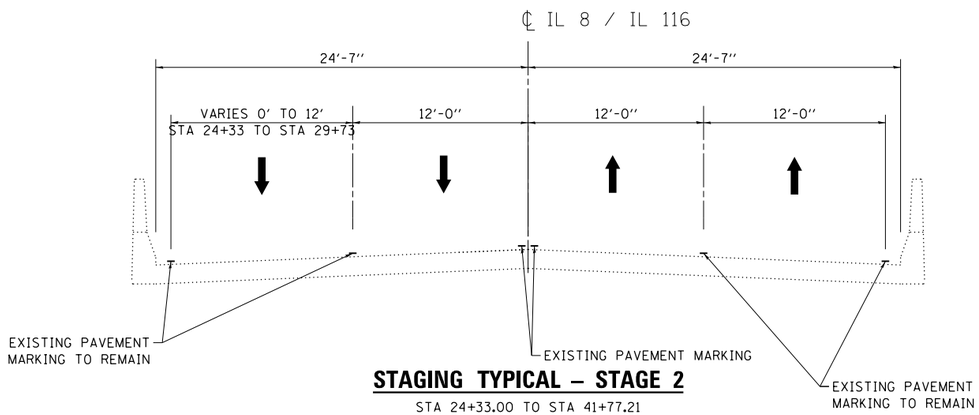
STAGING TYPICAL – STAGE 2

STA 97+37.00 TO 00+12.08
(STA EQUATION: STA 111+27.12 BK = STA 0+00.00 AH)
LANE CLOSURE: STA 97+37.00 TO STA 100+57.00 (EASTBOUND)
LANE TRANSITION: STA 108+58.00 TO STA 00+12.08 (WESTBOUND)



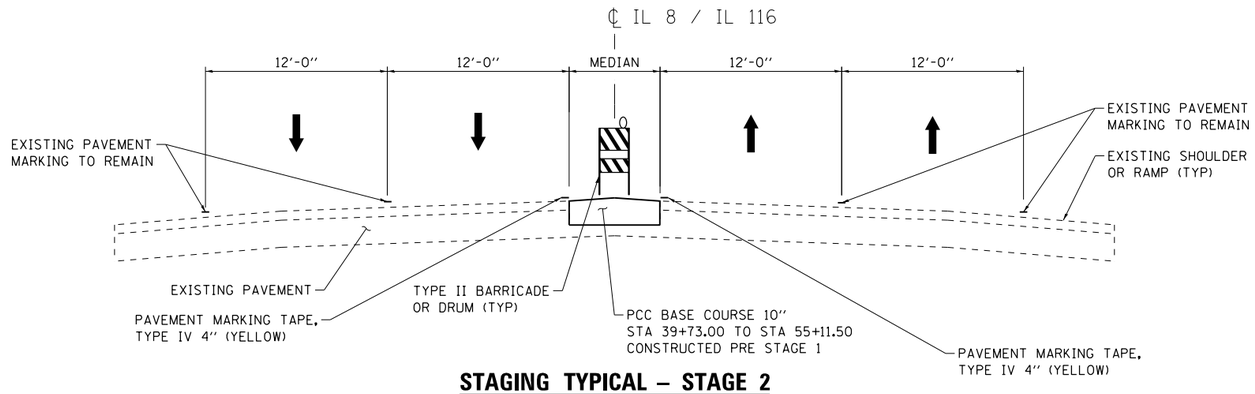
STAGING TYPICAL – STAGE 2

STA 0+12.08 TO STA 24+33.00
LANE TRANSITION: STA 18+33.00 TO STA 21+13.00 (WESTBOUND)



STAGING TYPICAL – STAGE 2

STA 24+33.00 TO STA 41+77.21
LANE CLOSURE STA 24+33.00 TO STA 29+73.00



STAGING TYPICAL – STAGE 2

STA 41+77.21 TO STA 55+18.50

STAGE 2 STAGING NOTES

1. ALL TRAFFIC CONTROL SIGNING AND DEVICES DETAILED AND NOTED IN STAGE 2 PLANS SHALL BE IN PLACE PRIOR TO BEGINNING ANY BRIDGE REPAIRS UNLESS APPROVED IN WRITING BY THE ENGINEER.
2. WESTBOUND AND EASTBOUND TRAFFIC WILL BE REDUCED TO 1 LANE IN EACH DIRECTION AS DETAILED IN THE PLANS.
3. BOTH LANES OF TRAFFIC WILL BE SHIFTED TO THE SOUTH SIDE OF CEDAR STREET BRIDGE WITH TEMPORARY CONCRETE BARRIER DIVIDING TRAFFIC FROM THE WORK ZONE.
4. ALL CONFLICTING EXISTING STRIPING SHALL BE COVERED WITH PAVEMENT MARKING BLACKOUT TAPE, 5".

STAGE 2 CONSTRUCTION NOTES

COMPLETE THE FOLLOWING IMPROVEMENTS TO THE NORTH SIDE OF CEDAR STREET BRIDGE:

- STRUCTUAL STEEL REPAIRS
- DECK AND PARAPET REPAIRS
- EXPANSION JOINT REPLACEMENTS
- REPLACE VAULTED WEST ABUTMENT SLAB, WB LANES.
- OTHER MISCELLANEOUS REPAIRS AS DETAILED IN THE STRUCTURE PLANS

(•) PEORIA / TAZEWELL

FILE NAME = S:\Projects\2015 JOBS\15IL004-00 QEI PTB 168-17 D4 Cedar St Bridge\CADD\CADD Sheets\D468A93-sht-Staging-2_Typ.dgn
MODEL = Default
PLOT DRIVER = 15IL004 PDF.pltcfg

QUIGG ENGINEERING INC

USER NAME = rgoertz	DESIGNED - RG	REVISED -	
D468A93-sht-Staging-2_Typ.dgn	DRAWN - RG	REVISED -	
PLOT SCALE = 10.0000 ' / in.	CHECKED - MCV	REVISED -	
PLOT DATE = 10/05/2015	DATE - 10/02/2015	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

MAINTENANCE OF TRAFFIC – NOTES AND TYPICAL SECTIONS
STAGE 2

SCALE: NONE | SHEET NO. OF SHEETS | STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
669	(103B)I-7	(•)	180	26
		CONTRACT NO. 68A93		
	ILLINOIS FED. AID PROJECT			

STAGING LEGEND

- WORK ZONE
- TRAFFIC FLOW
- SIGN
- TYPE II BARRICADE, DRUM W/ STEADY BURN MONODIRECTIONAL LIGHT
- TYPE III BARRICADE
- TEMPORARY CONCRETE BARRIER WALL
- IMPACT ATTENUATORS
- ARROW BOARD

COVER

R3-2 (24x24)

MAST–ARM ①

N

0 50 100

SCALE IN FEET

SW JEFFERSON ST

SW MEYER AVE

SW ADAMS ST

SW WASHINGTON ST

END WORK ZONE SPEED LIMIT

G20-I103(0)-60x36

KEEP RIGHT

R4-7A (24x30)

PAVEMENT MARKING TAPE TYPE IV, 4" (YELLOW)

103+66.00 6.0' RT

100+00

100+57.00 17.0' RT

320' CLOSURE TAPER SEE STD 701602

PROJECT BEGINS STA 97+37.00 6.8' RT

NO LEFT TURN AT WASHINGTON ST

PORTABLE CHANGEABLE MESSAGE SIGN PLACE ON IL 116 BETWEEN HOWELL ST AND NEW ST

105+00

102+15.00 16.0' RT

LEFT TURN LANE

R3-1100L (24x24)

M6-2L (21x15)

PAVEMENT MARKING TAPE, TYPE IV- LETTERS AND SYMBOLS

PAVEMENT MARKING TAPE TYPE IV, 4" (WHITE)

℄ IL 8 / IL 116

104+25.00 15.0' RT

KEEP RIGHT

R4-7A (24x30)

105+83.00 12.0' RT

4.5' R

106+81.00 1.0' RT

108+58.00 1.0' RT

109+95.00 9.0' RT

110+46.00 9.0' RT

110+00

W6-3 (36)

AHEAD

R3-2 (24x24)

W16-9P (24x12)

PAVEMENT MARKING TAPE TYPE IV, 4" (YELLOW)

PAVEMENT MARKING TAPE TYPE IV, 4" (DOUBLE YELLOW)

24" (TYP)

R3-2 (24x24)

R3-6 (30x36)

STATION EQUATION: STA 111+27.12 BK = STA 0+00.00 AH

PAVEMENT MARKING TAPE, TYPE IV 4" (DOUBLE DOTTED)

BEGIN STAGE 2 CONSTRUCTION STA 0+12.08

0+39.70 2.5' LT

R3-2 (24x24)

R3-6 (30x36)

W1-4R(0)-48

2+04.37 2.4' LT

2+19.00 0.0' RT

MATCH LINE STA 3+00.00

12'-0"

12'-0"

0+30.00 12.0' RT

PAVEMENT MARKING TAPE TYPE IV, 4" (DOUBLE YELLOW)

S.N. 090-0030

2+19.00 12.0' RT

PAVEMENT MARKING TAPE TYPE IV, 4" (WHITE)

NOTE:

LEFT TURN SIGNAL(S) FROM WESTBOUND AND EASTBOUND IL 8 / IL 116 SHALL BE DISABLED IN ACCORDANCE WITH THE TRAFFIC SIGNAL COORDINATION SPECIAL PROVISION.

(•) PEORIA / TAZEWELL

FILE NAME = S:\Projects\2015 JOBS\15IL004-00 QEI PTB 168-17 D4 Cedar St Bridge\CADD\CADD Sheets\D468A93-sht-Staging-2.01.dgn
MODEL = Default
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QUIGG ENGINEERING INC

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PLOT SCALE = 100.0000 ' / in.	CHECKED - MCV	REVISED -
PLOT DATE = 10/05/2015	DATE - 10/02/2015	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

MAINTENANCE OF TRAFFIC – BRIDGE REPAIR
STAGE 2

SCALE: 1" = 50' | SHEET NO. OF SHEETS | STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
669	(103B)I-7	(•)	180	27
		CONTRACT NO. 68A93		
	ILLINOIS FED. AID PROJECT			

STAGING LEGEND

- WORK ZONE
- TRAFFIC FLOW
- SIGN
- TYPE II BARRICADE, DRUM W/ STEADY BURN MONODIRECTIONAL LIGHT
- TYPE III BARRICADE
- TEMPORARY CONCRETE BARRIER WALL
- IMPACT ATTENUATORS
- ARROW BOARD

N

0 50 100
SCALE IN FEET

ADM TRACKS

BURLINGTON NORTHERN
SANTE FE (BNSF) RAILROAD

MATCH LINE STA 3+00.00

5+00

10+00

15+00

12'-0"
12'-0"

PAVEMENT MARKING TAPE,
TYPE IV 4" (DOUBLE YELLOW)

PAVEMENT MARKING TAPE,
TYPE IV 4" (WHITE)

WORK ZONE
SPEED LIMIT 40
PHOTO ENFORCED
$150 FINE MINIMUM

W21-1115(0)-36x18
R2-1 (36x48)
R10-19aP (36x18)
COVER EXISTING
SPEED LIMIT SIGN
ON CEDAR STREET BRIDGE
WITH ABOVE ASSEMBLY

TAZEWELL AND
PEORIA RAILROAD
(TZPR)

RIVER

END STAGE 2
CONSTRUCTION
STA. 14+83.00

15+34.36
2.5' LT

16+10.42
9.0' LT

17+11.75
9.0' LT

℄ IL 8 / IL 116

S.N. 090-0030

ILLINOIS

MATCH LINE STA 17+50.00

(•) PEORIA / TAZEWELL

FILE NAME = S:\Projects\2015 JOBS\15IL004-00 QEI PTB 168-17 D4 Cedar St Bridge\CADD\CADD Sheets\D468A93-sht-Staging-2.02.dgn
MODEL = Default
PLOT DRIVER = 15IL004 PDF.pltcfg

QUIGG ENGINEERING INC

USER NAME = rgoertz	DESIGNED - RG	REVISED -
D468A93-sht-Staging-2.02.dgn	DRAWN - RG	REVISED -
PLOT SCALE = 100.0000 ' / in.	CHECKED - MCV	REVISED -
PLOT DATE = 10/05/2015	DATE - 10/02/2015	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

MAINTENANCE OF TRAFFIC – BRIDGE REPAIR
STAGE 2

SCALE: 1" = 50' | SHEET NO. OF SHEETS | STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
669	(103B)I-7	(•)	180	28
		CONTRACT NO. 68A93		
	ILLINOIS FED. AID PROJECT			

STAGING LEGEND

- WORK ZONE
- TRAFFIC FLOW
- SIGN
- TYPE II BARRICADE, DRUM W/ STEADY BURN MONODIRECTIONAL LIGHT
- TYPE III BARRICADE
- TEMPORARY CONCRETE BARRIER WALL
- IMPACT ATTENUATORS
- ARROW BOARD

N

0 50 100
SCALE IN FEET

LEVEE RD

TRACTOR DR

SEE STD 701601

W6-3 (36)

W1-4L(O)-48

540' CLOSURE TAPER

MATCH LINE STA 17+50.00

MATCH LINE STA 32+50.00

18+22.00
0.0' RT

21+13.00
12.0' LT

29+73.00
24.0' LT

20+00

25+00

30+00

12'-0"
12'-0"

12'-0"
12'-0"
12'-0"

18+33.00
12.0' RT

21+13.00
0.0' RT

21+13.00
12.0' RT

24+33.00
12.0' LT

℄ IL 8 / IL 116

S.N. 090-0030

PAVEMENT MARKING TAPE,
TYPE IV 4"
(DOUBLE YELLOW)

PAVEMENT MARKING TAPE,
TYPE IV 4"
(YELLOW)

PAVEMENT MARKING TAPE,
TYPE IV 4" (WHITE)

(•) PEORIA / TAZEWELL

QUIGG ENGINEERING INC	USER NAME = rgoertz	DESIGNED - RG	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	MAINTENANCE OF TRAFFIC – BRIDGE REPAIR STAGE 2
	D468A93-sht-Staging-2.03.dgn	DRAWN - RG	REVISED -		
	PLOT SCALE = 100.0000 ' / in.	CHECKED - MCV	REVISED -		
	PLOT DATE = 10/05/2015	DATE - 10/02/2015	REVISED -		SCALE: 50' | SHEET NO. OF SHEETS | STA. | TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
669	(103B)I-7	(•)	180	29
		CONTRACT NO. 68A93		
	ILLINOIS FED. AID PROJECT			

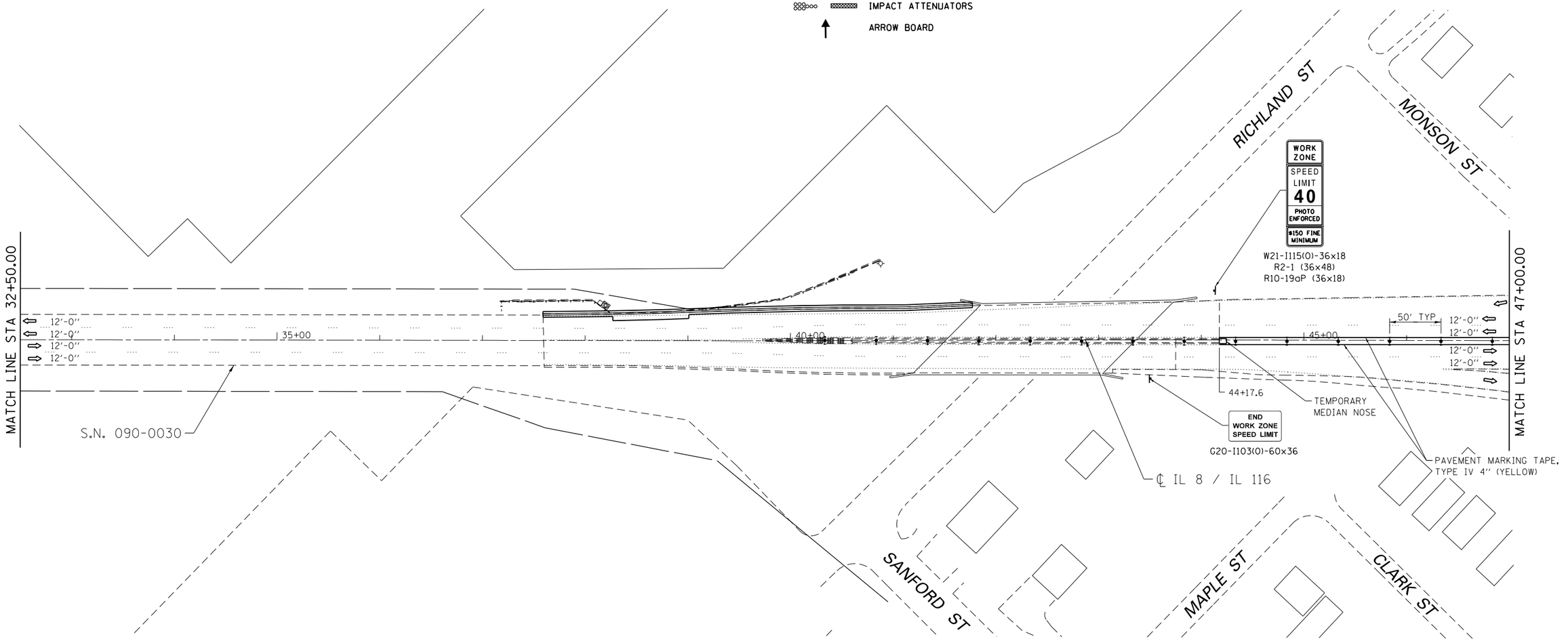
FILE NAME = S:\Projects\2015 JOBS\15IL004-00 QEI PTB 168-17 D4 Cedar St Bridge\CADD\CADD Sheets\D468A93-sht-Staging-2.03.dgn
MODEL = Default
PLOT DRIVER = 15IL004 PDF.pltcfg

STAGING LEGEND

- WORK ZONE
- TRAFFIC FLOW
- SIGN
- TYPE II BARRICADE, DRUM W/ STEADY BURN MONODIRECTIONAL LIGHT
- TYPE III BARRICADE
- TEMPORARY CONCRETE BARRIER WALL
- IMPACT ATTENUATORS
- ARROW BOARD

N

0 50 100
SCALE IN FEET



(*) PEORIA / TAZEWELL

QUIGG ENGINEERING INC	USER NAME = rgoertz	DESIGNED - RG	REVISED -
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	PLOT SCALE = 100.0000 ' / in.	CHECKED - MCV	REVISED -
	PLOT DATE = 10/05/2015	DATE - 10/02/2015	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

MAINTENANCE OF TRAFFIC – BRIDGE REPAIR
STAGE 2

SCALE: 1" = 50' | SHEET NO. OF SHEETS | STA. | TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
669	(103B)I-7	(*)	180	30
		CONTRACT NO. 68A93		
	ILLINOIS FED. AID PROJECT			

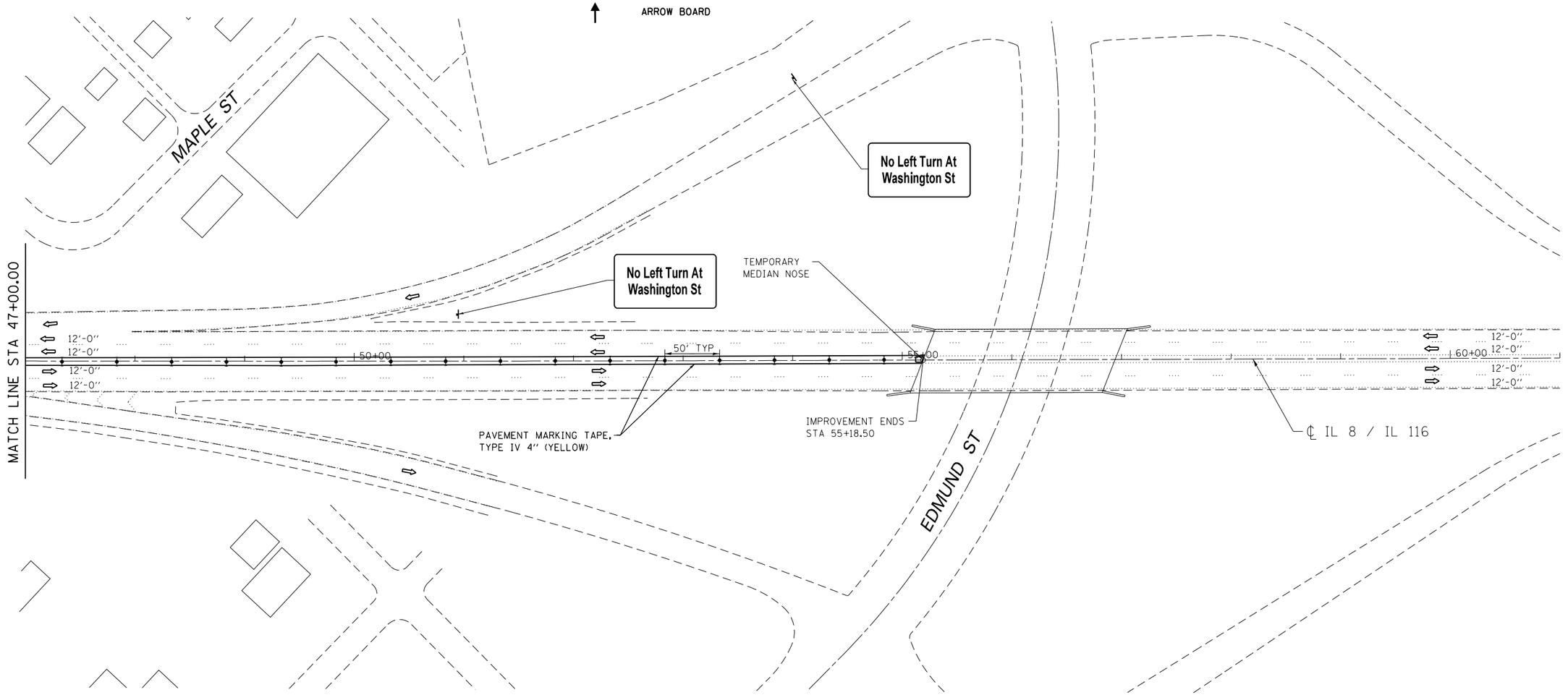
FILE NAME = S:\Projects\2015 JOBS\15IL004-00 QEI PTB 168-17 D4 Cedar St Bridge\CADD\CADD Sheets\D468A93-sht-Staging-2.04.dgn
MODEL = Default
PLOT DRIVER = 15IL004 PDF.pltcfg

STAGING LEGEND

- WORK ZONE
- TRAFFIC FLOW
- SIGN
- TYPE II BARRICADE, DRUM W/ STEADY BURN MONODIRECTIONAL LIGHT
- TYPE III BARRICADE
- TEMPORARY CONCRETE BARRIER WALL
- IMPACT ATTENUATORS
- ARROW BOARD

N

0 50 100
SCALE IN FEET



(*) PEORIA / TAZEWELL

FILE NAME = S:\Projects\2015 JOBS\15IL004-00 QEI PTB 168-17 D4 Cedar St Bridge\CADD\CADD Sheets\D468A93-sht-Staging-2.05.dgn
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QUIGG ENGINEERING INC

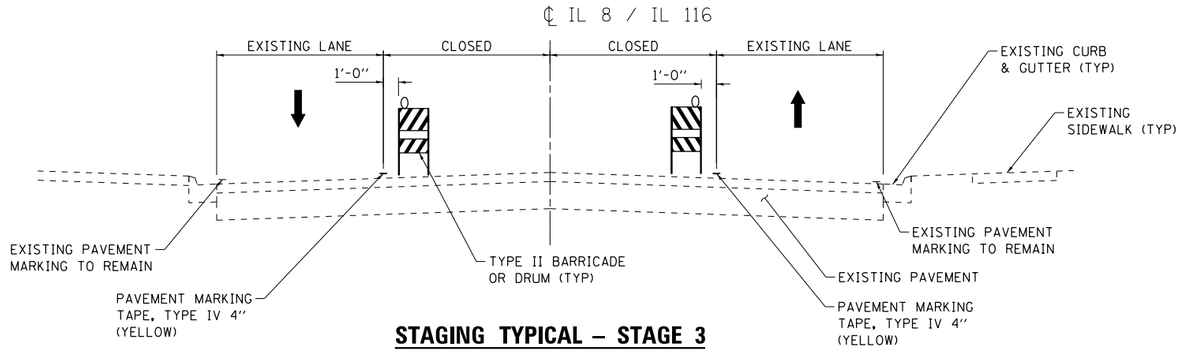
USER NAME = rgoertz	DESIGNED - RG	REVISED -
D468A93-sht-Staging-2.05.dgn	DRAWN - RG	REVISED -
PLOT SCALE = 100.0000 ' / in.	CHECKED - MCV	REVISED -
PLOT DATE = 10/05/2015	DATE - 10/02/2015	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

MAINTENANCE OF TRAFFIC – BRIDGE REPAIR
STAGE 2

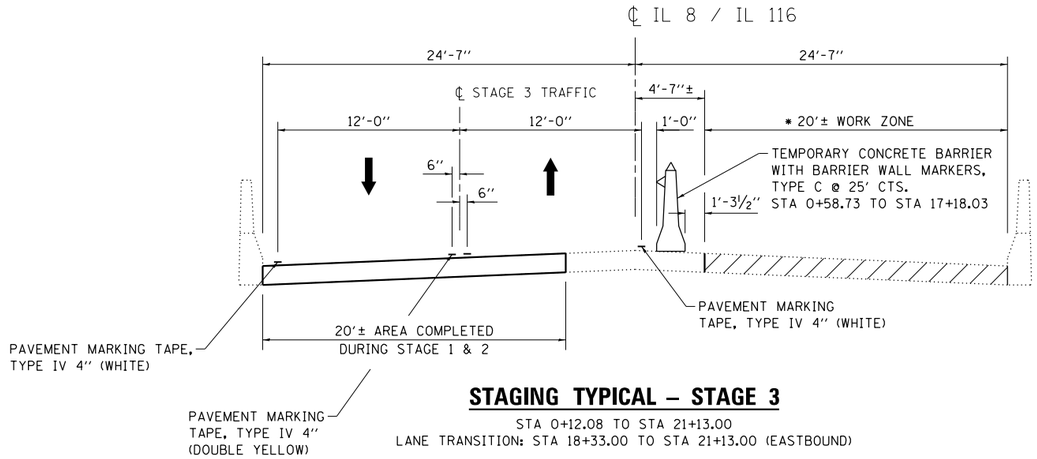
SCALE: 1" = 50' | SHEET NO. OF SHEETS | STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
669	(103B)I-7	(*)	180	31
		CONTRACT NO. 68A93		
	ILLINOIS FED. AID PROJECT			



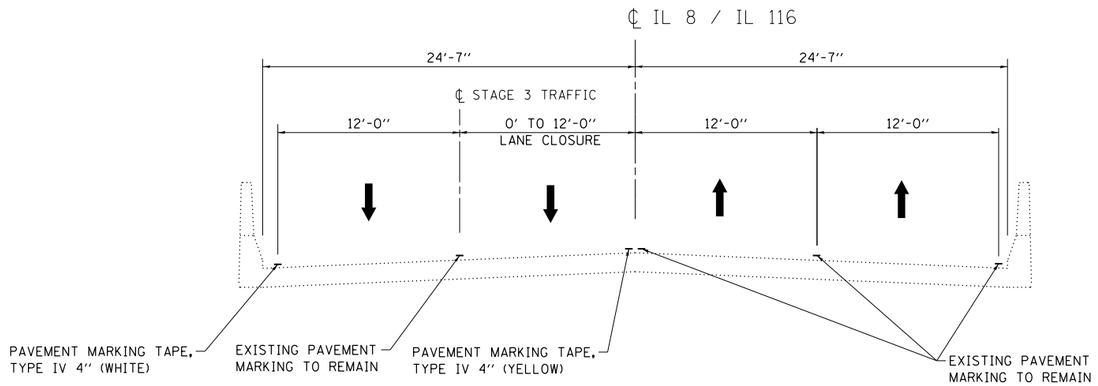
STAGING TYPICAL – STAGE 3

STA 97+37.00 TO STA 00+12.08
(STA EQUATION: STA 111+27.12 BK = STA 0+00.00 AH)
LANE CLOSURE STA 97+37.00 TO STA 100+57.00 (EASTBOUND)
LANE TRANSITION: STA 107+24.00 TO STA 109+56.00 (EASTBOUND)



STAGING TYPICAL – STAGE 3

STA 0+12.08 TO STA 21+13.00
LANE TRANSITION: STA 18+33.00 TO STA 21+13.00 (EASTBOUND)



STAGING TYPICAL – STAGE 3

STA 21+13.00 TO STA 44+17.60
LANE CLOSURE: STA 21+13.00 TO STA 26+53.00 (WESTBOUND)
EXISTING MEDIAN: STA 39+72.71 TO STA 44+17.60

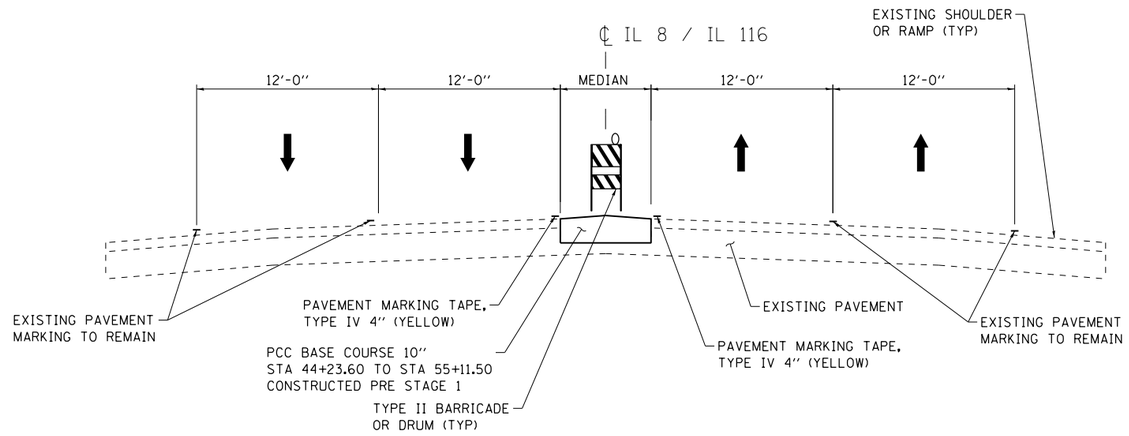
STAGE 3 STAGING NOTES

1. ADJUST STAGE 2 TRAFFIC CONTROL SIGNING AND DEVICES FOR STAGE 3 TRAFFIC. ALL TRAFFIC CONTROL SIGNING AND DEVICES DETAILED AND NOTED IN STAGE 3 PLANS SHALL BE IN PLACE PRIOR TO BEGINNING ANY BRIDGE REPAIRS UNLESS APPROVED IN WRITING BY THE ENGINEER.
2. WESTBOUND AND EASTBOUND TRAFFIC WILL BE REDUCED TO 1 LANE IN EACH DIRECTION AS DETAILED IN THE PLANS.
3. BOTH LANES OF TRAFFIC WILL BE SHIFTED TO THE NORTH SIDE OF CEDAR STREET BRIDGE WITH TEMPORARY CONCRETE BARRIER DIVIDING TRAFFIC FROM THE WORK ZONE.
4. ALL CONFLICTING EXISTING STRIPING SHALL BE COVERED WITH PAVEMENT MARKING BLACKOUT TAPE, 5".

STAGE 3 CONSTRUCTION NOTES

COMPLETE THE FOLLOWING IMPROVEMENTS TO THE SOUTH SIDE OF CEDAR STREET BRIDGE:

- STRUCTURAL STEEL REPAIRS
- DECK AND PARAPET REPAIRS
- OTHER MISCELLANEOUS REPAIRS AS DETAILED IN THE STRUCTURE PLANS



STAGING TYPICAL – STAGE 3

STA 44+17.60 TO STA 55+18.50

(•) PEORIA / TAZEWELL

FILE NAME = S:\Projects\2015 JOBS\15IL004-00 QEI PTB 168-17 D4 Cedar St Bridge\CADD\CADD Sheets\D468A93-sht-Staging-3.Typ.dgn
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PLOT DRIVER = 15IL004 PDF.pltcfg

QUIGG ENGINEERING INC

USER NAME = rgoertz	DESIGNED - RG	REVISED -	
D468A93-sht-Staging-3.Typ.dgn	DRAWN - RG	REVISED -	
PLOT SCALE = 10.0000 ' / in.	CHECKED - MCV	REVISED -	
PLOT DATE = 10/05/2015	DATE - 10/02/2015	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

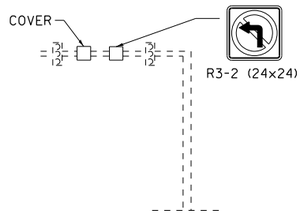
MAINTENANCE OF TRAFFIC – NOTES AND TYPICAL SECTIONS
STAGE 3

SCALE: NONE | SHEET NO. OF SHEETS | STA. TO STA.

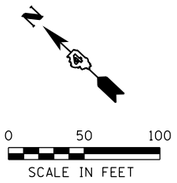
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
669	(103B)I-7	(•)	180	32
		CONTRACT NO. 68A93		
	ILLINOIS FED. AID PROJECT			

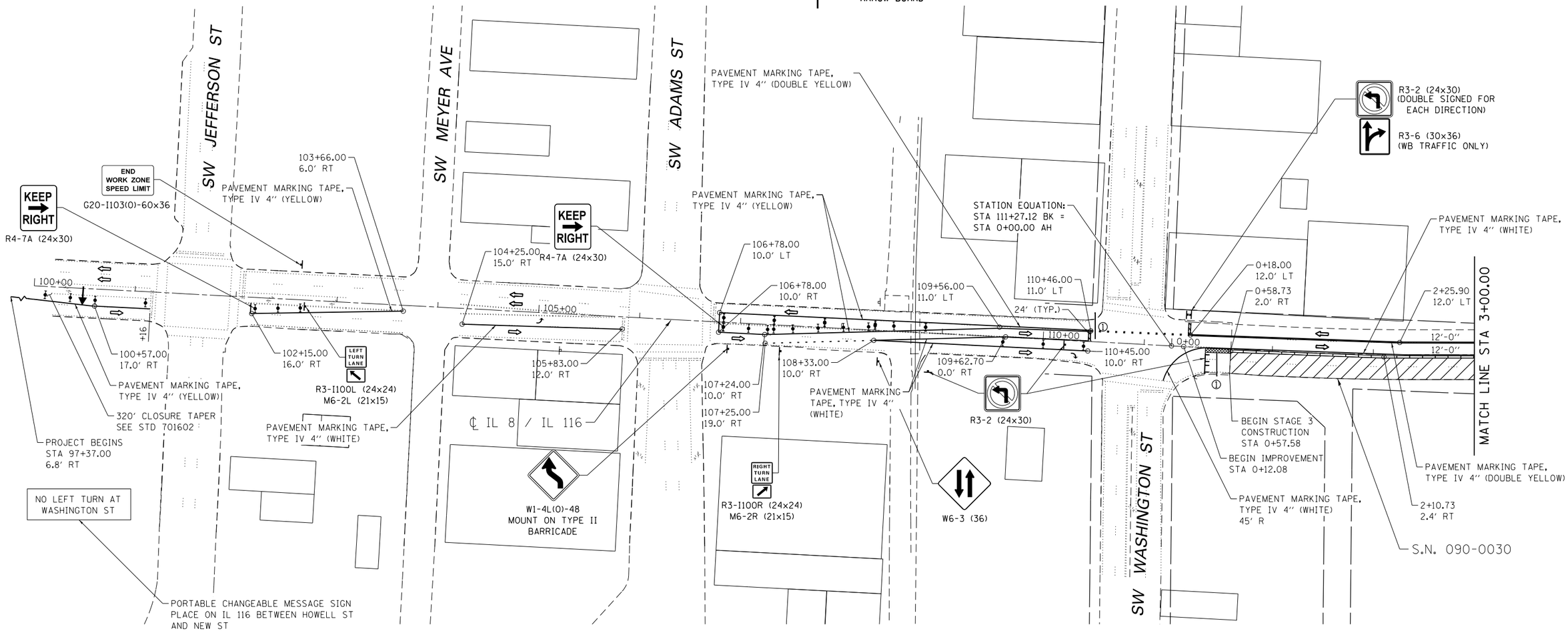
STAGING LEGEND

- WORK ZONE
- TRAFFIC FLOW
- SIGN
- TYPE II BARRICADE, DRUM W/ STEADY BURN MONODIRECTIONAL LIGHT
- TYPE III BARRICADE
- TEMPORARY CONCRETE BARRIER WALL
- IMPACT ATTENUATORS
- ARROW BOARD



MAST-ARM ①





NOTE:

LEFT TURN SIGNAL(S) FROM WESTBOUND AND EASTBOUND IL 8 / IL 116 SHALL BE DISABLED IN ACCORDANCE WITH THE TRAFFIC SIGNAL COORDINATION SPECIAL PROVISION.

(•) PEORIA / TAZEWELL

QUIGG ENGINEERING INC

USER NAME = rgoertz	DESIGNED - RG	REVISED -
D468A93-sht-Staging-3.01.dgn	DRAWN - RG	REVISED -
PLOT SCALE = 100.0000 ' / in.	CHECKED - MCV	REVISED -
PLOT DATE = 10/05/2015	DATE - 10/02/2015	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

MAINTENANCE OF TRAFFIC – BRIDGE REPAIR
STAGE 3

SCALE: 1" = 50' | SHEET NO. OF SHEETS | STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
669	(103B)I-7	(•)	180	33
		CONTRACT NO. 68A93		
	ILLINOIS FED. AID PROJECT			

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MODEL = Default
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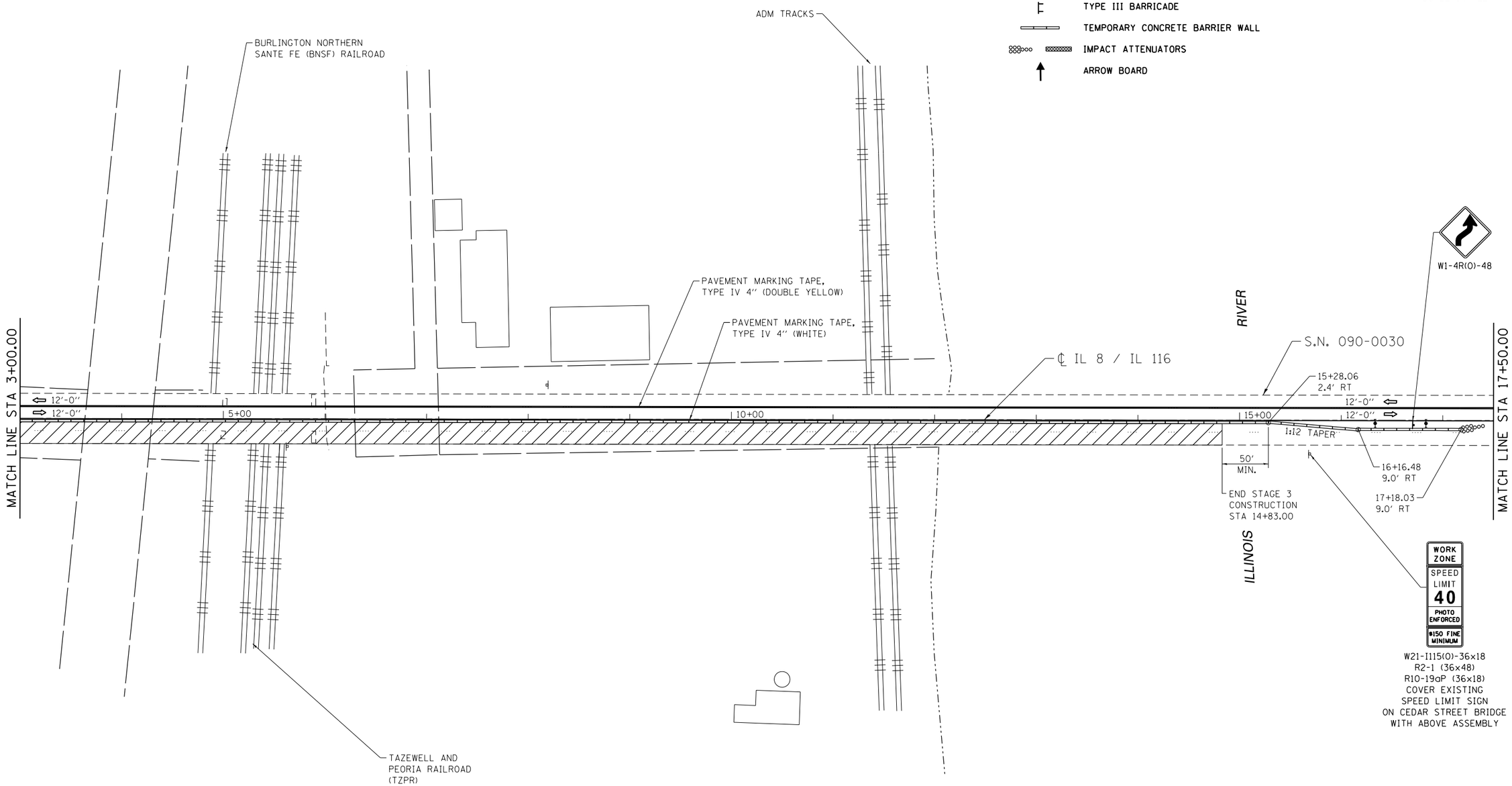
STAGING LEGEND

- WORK ZONE
- TRAFFIC FLOW
- SIGN
- TYPE II BARRICADE, DRUM W/ STEADY BURN MONODIRECTIONAL LIGHT
- TYPE III BARRICADE
- TEMPORARY CONCRETE BARRIER WALL
- IMPACT ATTENUATORS
- ARROW BOARD

N

0 50 100
SCALE IN FEET



(•) PEORIA / TAZEWELL

QUIGG ENGINEERING INC 27	USER NAME = rgoertz	DESIGNED - RG	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	MAINTENANCE OF TRAFFIC – BRIDGE REPAIR STAGE 3
	D468A93-sht-Staging-3.02.dgn	DRAWN - RG	REVISED -		SCALE: 1" = 50' SHEET NO. OF SHEETS STA. TO STA.
	PLOT SCALE = 100.0000 ' / in.	CHECKED - MCV	REVISED -		
	PLOT DATE = 10/05/2015	DATE - 10/02/2015	REVISED -		

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
669	(103B)I-7	(•)	180	34
		CONTRACT NO. 68A93		
	ILLINOIS FED. AID PROJECT			

FILE NAME = S:\Projects\2015 JOBS\15IL004-00 QEI PTB 168-17 D4 Cedar St Bridge\CADD\CADD Sheets\D468A93-sht-Staging-3.02.dgn
MODEL = Default
PLOT DRIVER = 15IL004 PDF.pltcfg

STAGING LEGEND

- WORK ZONE
- TRAFFIC FLOW
- SIGN
- TYPE II BARRICADE, DRUM W/ STEADY BURN MONODIRECTIONAL LIGHT
- TYPE III BARRICADE
- TEMPORARY CONCRETE BARRIER WALL
- IMPACT ATTENUATORS
- ARROW BOARD

N

0 50 100
SCALE IN FEET

LEVEE RD

TRACTOR DR

SEE STD 701601

MATCH LINE STA 17+50.00

MATCH LINE STA 32+50.00

540' CLOSURE TAPER

S.N. 090-0030

PAVEMENT MARKING TAPE, TYPE IV 4" (DOUBLE YELLOW)

18+33.00
12.0' LT

21+13.00
12.0' LT

26+53.00
0.0' LT

12'-0"
12'-0"

12'-0"
12'-0"
12'-0"
12'-0"

25+00

30+00

18+33.00
0.0' RT

21+13.00
24.0' RT

21+13.00
0.0' RT

PAVEMENT MARKING TAPE, TYPE IV 4" (YELLOW)

℄ IL 8 / IL 116

PAVEMENT MARKING TAPE, TYPE IV 4" (WHITE)

END
WORK ZONE
SPEED LIMIT

G20-1103(0)-60x36

W6-3 (36)

(•) PEORIA / TAZEWELL

FILE NAME = S:\Projects\2015 JOBS\15IL004-00 QEI PTB 168-17 D4 Cedar St Bridge\CADD\CADD Sheets\D468A93-sht-Staging-3.03.dgn
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QUIGG ENGINEERING INC

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D468A93-sht-Staging-3.03.dgn	DRAWN - RG	REVISED -
PLOT SCALE = 100.0000 ' / in.	CHECKED - MCV	REVISED -
PLOT DATE = 10/05/2015	DATE - 10/02/2015	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

MAINTENANCE OF TRAFFIC – BRIDGE REPAIR
STAGE 3

SCALE: 1" = 50' | SHEET NO. OF SHEETS | STA. | TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
669	(103B)I-7	(•)	180	35
		CONTRACT NO. 68A93		
	ILLINOIS FED. AID PROJECT			

STAGING LEGEND

- WORK ZONE
- TRAFFIC FLOW
- SIGN
- TYPE II BARRICADE, DRUM W/ STEADY BURN MONODIRECTIONAL LIGHT
- TYPE III BARRICADE
- TEMPORARY CONCRETE BARRIER WALL
- IMPACT ATTENUATORS
- ARROW BOARD

N

0 50 100
SCALE IN FEET

WORK ZONE
SPEED LIMIT 40
PHOTO ENFORCED
$150 FINE MINIMUM

W21-I115(O)-36x18
R2-1 (36x48)
R10-19aP (36x18)
COVER EXISTING
SPEED LIMIT SIGN
ON CEDAR STREET BRIDGE
WITH ABOVE ASSEMBLY

S.N. 090-0030

SEE STD 701601

MATCH LINE STA 32+50.00

12'-0" 12'-0" 12'-0" 12'-0"

35+00

℄ IL 8 / IL 116

40+00

RICHLAND ST

MONSON ST

WORK ZONE
SPEED LIMIT 40
PHOTO ENFORCED
$150 FINE MINIMUM

W21-I115(O)-36x18
R2-1 (36x48)
R10-19aP (36x18)

PAVEMENT MARKING TAPE, TYPE IV 4" (YELLOW)

45+00

50' TYP.

12'-0" 12'-0" 12'-0" 12'-0"

MATCH LINE STA 47+00.00

44+17.60

TEMPORARY MEDIAN NOSE

SANFORD ST

MAPLE ST

CLARK ST

(•) PEORIA / TAZEWELL

FILE NAME = S:\Projects\2015 JOBS\15IL004-00 QEI PTB 168-17 D4 Cedar St Bridge\CADD\CADD Sheets\D468A93-sht-Staging-3.04.dgn
MODEL = Default
PLOT DRIVER = 15IL004 PDF.pltcfg

QUIGG ENGINEERING INC

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PLOT DATE = 10/05/2015	DATE - 10/02/2015	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

MAINTENANCE OF TRAFFIC – BRIDGE REPAIR
STAGE 3

SCALE: 1" = 50' | SHEET NO. OF SHEETS | STA. | TO STA.

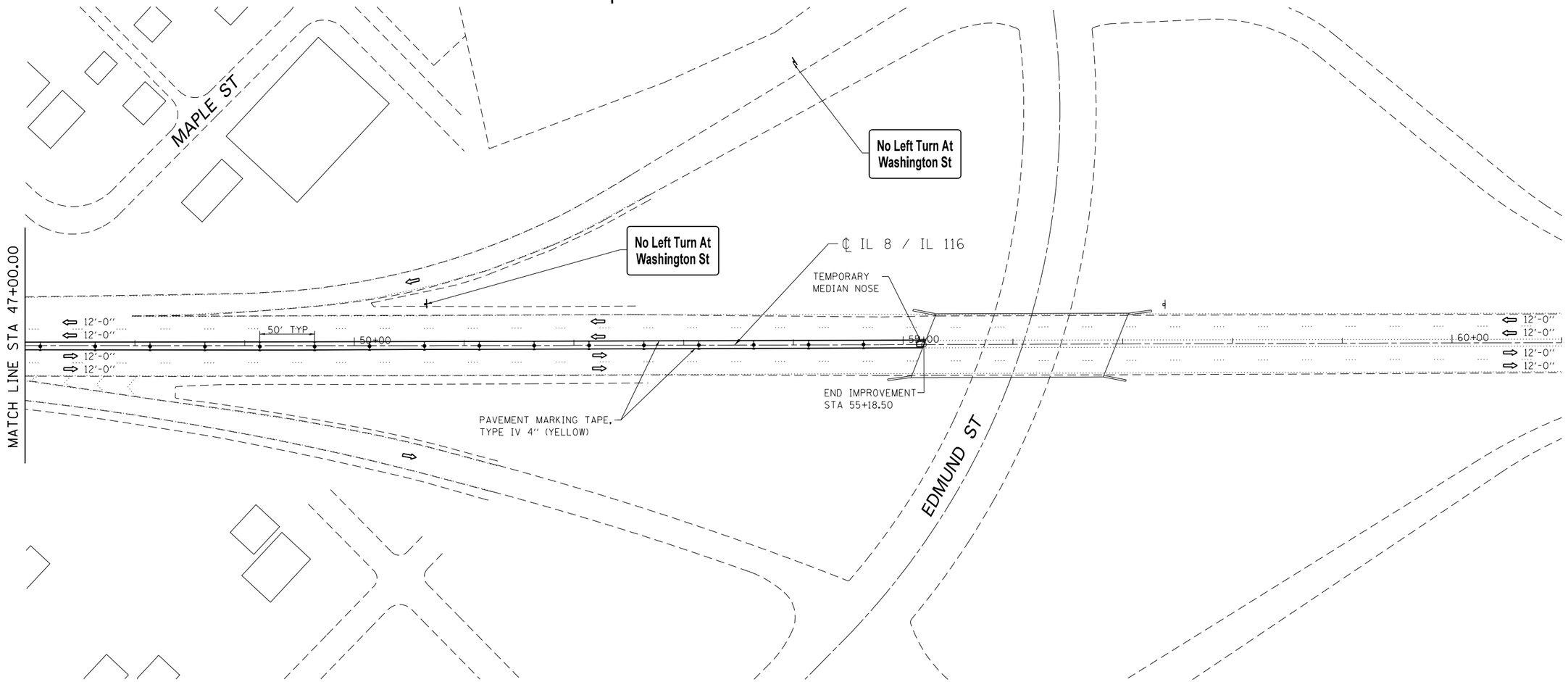
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
669	(103B)I-7	(•)	180	36
		CONTRACT NO. 68A93		
	ILLINOIS FED. AID PROJECT			

STAGING LEGEND

- WORK ZONE
- TRAFFIC FLOW
- SIGN
- TYPE II BARRICADE, DRUM W/ STEADY BURN MONODIRECTIONAL LIGHT
- TYPE III BARRICADE
- TEMPORARY CONCRETE BARRIER WALL
- IMPACT ATTENUATORS
- ARROW BOARD

N

0 50 100
SCALE IN FEET



(*) PEORIA / TAZEWELL

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PLOT SCALE = 100.0000 ' / in.	CHECKED - MCV	REVISED -	
PLOT DATE = 10/05/2015	DATE - 10/02/2015	REVISED -	

QUIGG ENGINEERING INC

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

MAINTENANCE OF TRAFFIC – BRIDGE REPAIR
STAGE 3

SCALE: 1" = 50' | SHEET NO. OF SHEETS | STA. | TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
669	(103B)I-7	(*)	180	37
		CONTRACT NO. 68A93		
	ILLINOIS FED. AID PROJECT			

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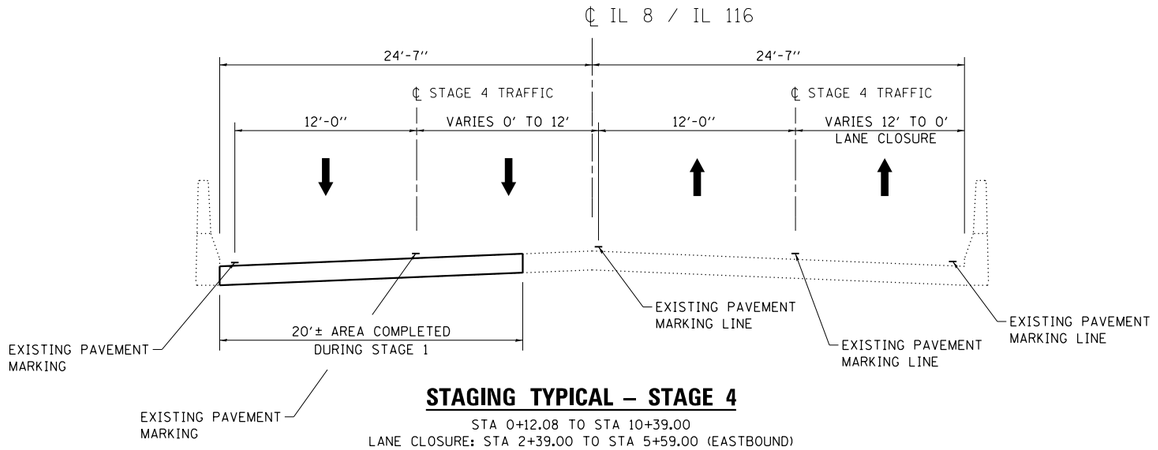
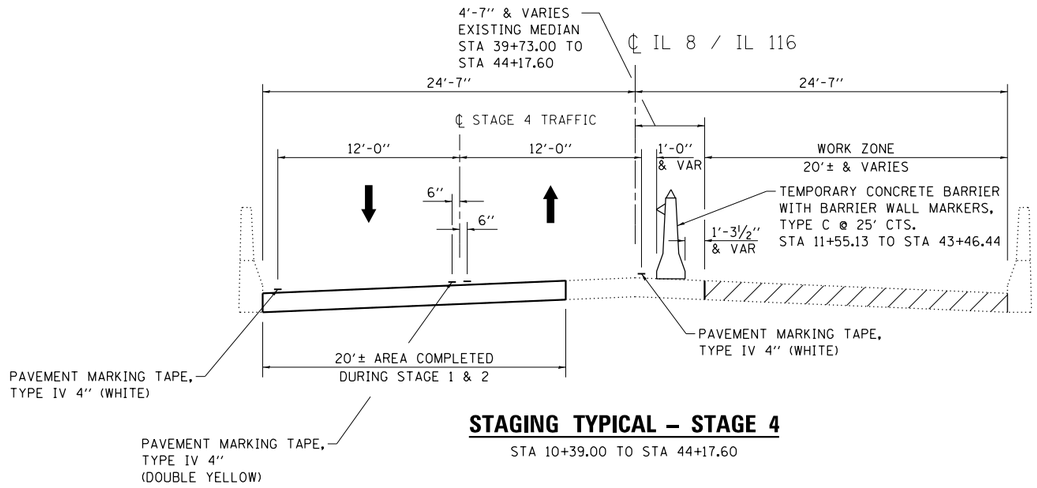


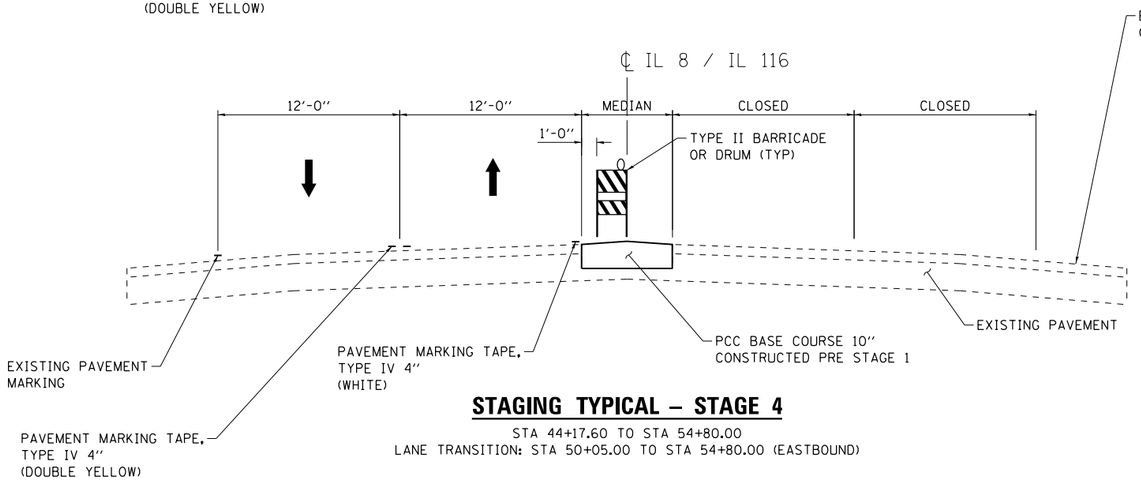
STAGING TYPICAL – STAGE 4

STA 0+12.08 TO STA 10+39.00
LANE CLOSURE: STA 2+39.00 TO STA 5+59.00 (EASTBOUND)
LANE TRANSITION: STA 7+59.00 TO STA 10+39.00 (EASTBOUND)



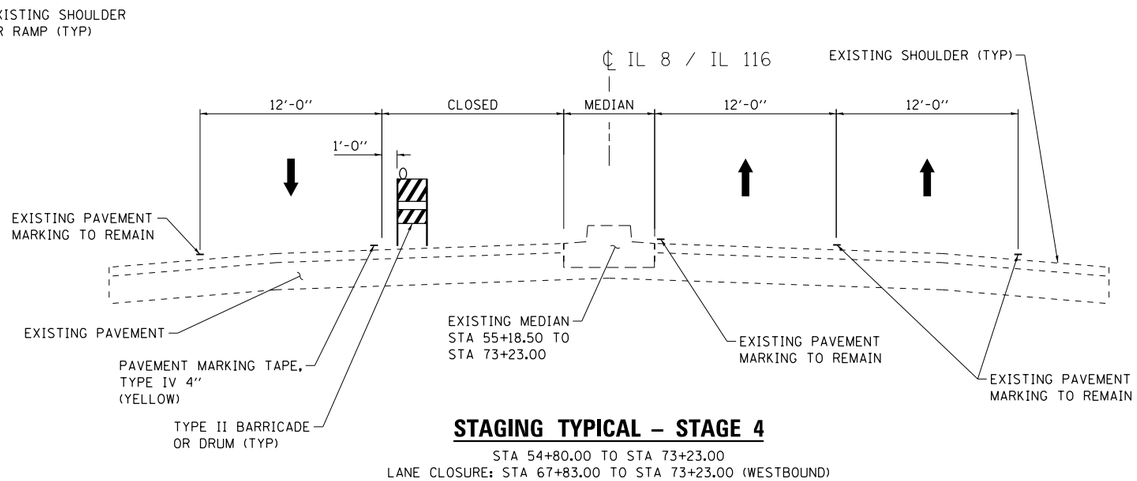
STAGING TYPICAL – STAGE 4

STA 10+39.00 TO STA 44+17.60



STAGING TYPICAL – STAGE 4

STA 44+17.60 TO STA 54+80.00
LANE TRANSITION: STA 50+05.00 TO STA 54+80.00 (EASTBOUND)



STAGING TYPICAL – STAGE 4

STA 54+80.00 TO STA 73+23.00
LANE CLOSURE: STA 67+83.00 TO STA 73+23.00 (WESTBOUND)

STAGE 4 STAGING NOTES

1. ADJUST STAGE 3 TRAFFIC CONTROL SIGNING AND DEVICES FOR STAGE 4 TRAFFIC. ALL TRAFFIC CONTROL SIGNING AND DEVICES DETAILED AND NOTED IN STAGE 4 PLANS SHALL BE IN PLACE PRIOR TO BEGINNING ANY BRIDGE REPAIRS UNLESS APPROVED IN WRITING BY THE ENGINEER.
2. WESTBOUND AND EASTBOUND TRAFFIC WILL BE REDUCED TO 1 LANE IN EACH DIRECTION AS DETAILED IN THE PLANS.
3. BOTH LANES OF TRAFFIC WILL BE SHIFTED TO THE NORTH SIDE OF CEDAR STREET BRIDGE WITH TEMPORARY CONCRETE BARRIER DIVIDING TRAFFIC FROM THE WORK ZONE.
4. ALL CONFLICTING EXISTING STRIPING SHALL BE COVERED WITH PAVEMENT MARKING BLACKOUT TAPE, 5''.

STAGE 4 CONSTRUCTION NOTES

COMPLETE THE FOLLOWING IMPROVEMENTS TO THE SOUTH SIDE OF CEDAR STREET BRIDGE:

- STRUCTURAL STEEL REPAIRS
- DECK AND PARAPET REPAIRS
- OTHER MISCELLANEOUS REPAIRS AS DETAILED IN THE STRUCTURE PLANS

(*) PEORIA / TAZEWELL

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QUIGG ENGINEERING INC

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PLOT DATE = 10/05/2015	DATE - 10/02/2015	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

MAINTENANCE OF TRAFFIC – NOTES AND TYPICAL SECTIONS
STAGE 4

SCALE: NONE | SHEET NO. OF SHEETS | STA. TO STA.

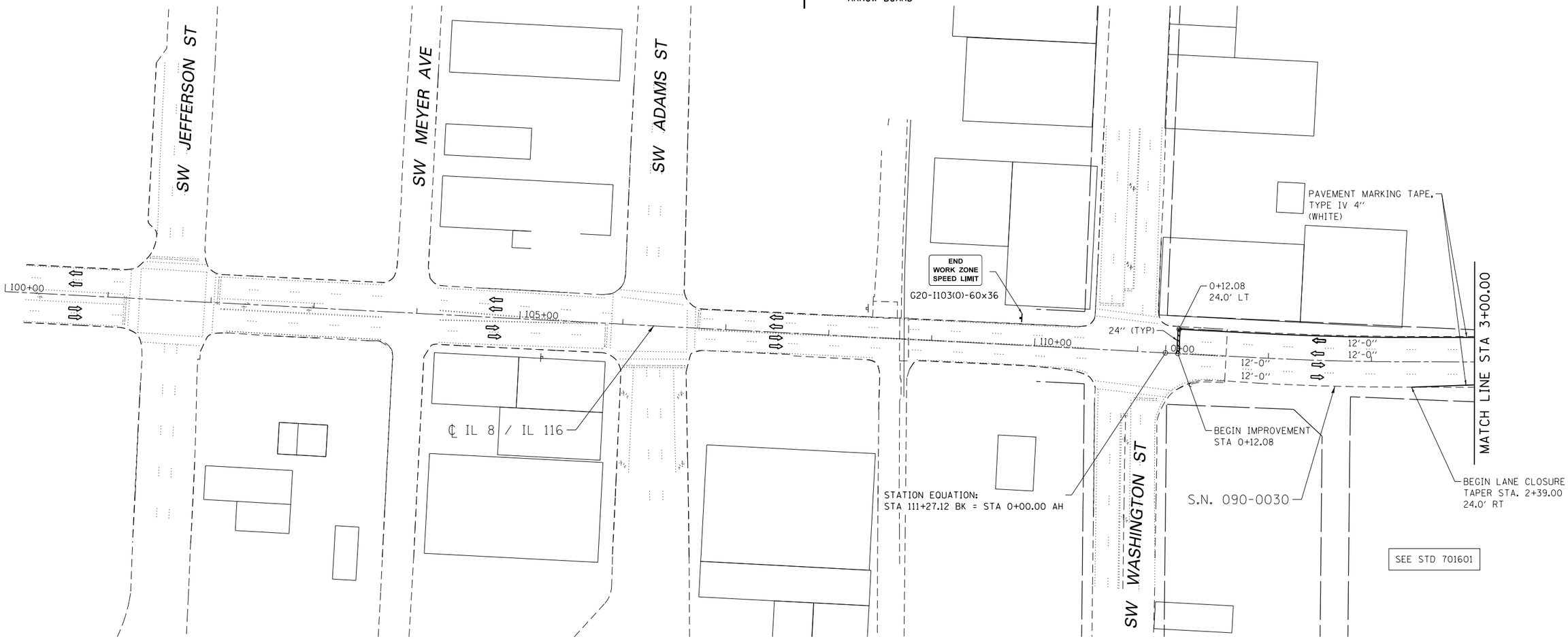
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
669	(103B)I-7	(*)	180	38
		CONTRACT NO. 68A93		
	ILLINOIS FED. AID PROJECT			

STAGING LEGEND

- WORK ZONE
- TRAFFIC FLOW
- SIGN
- TYPE II BARRICADE, DRUM W/ STEADY BURN MONODIRECTIONAL LIGHT
- TYPE III BARRICADE
- TEMPORARY CONCRETE BARRIER WALL
- IMPACT ATTENUATORS
- ARROW BOARD

N

0 50 100
SCALE IN FEET



(•) PEORIA / TAZEWELL

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PLOT DATE = 10/05/2015	DATE - 10/02/2015	REVISED -	

QUIGG ENGINEERING INC

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

MAINTENANCE OF TRAFFIC – BRIDGE REPAIR
STAGE 4

SCALE: 1" = 50' | SHEET NO. OF SHEETS | STA. | TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
669	(103B)I-7	(•)	180	39
		CONTRACT NO. 68A93		
		ILLINOIS	FED. AID PROJECT	

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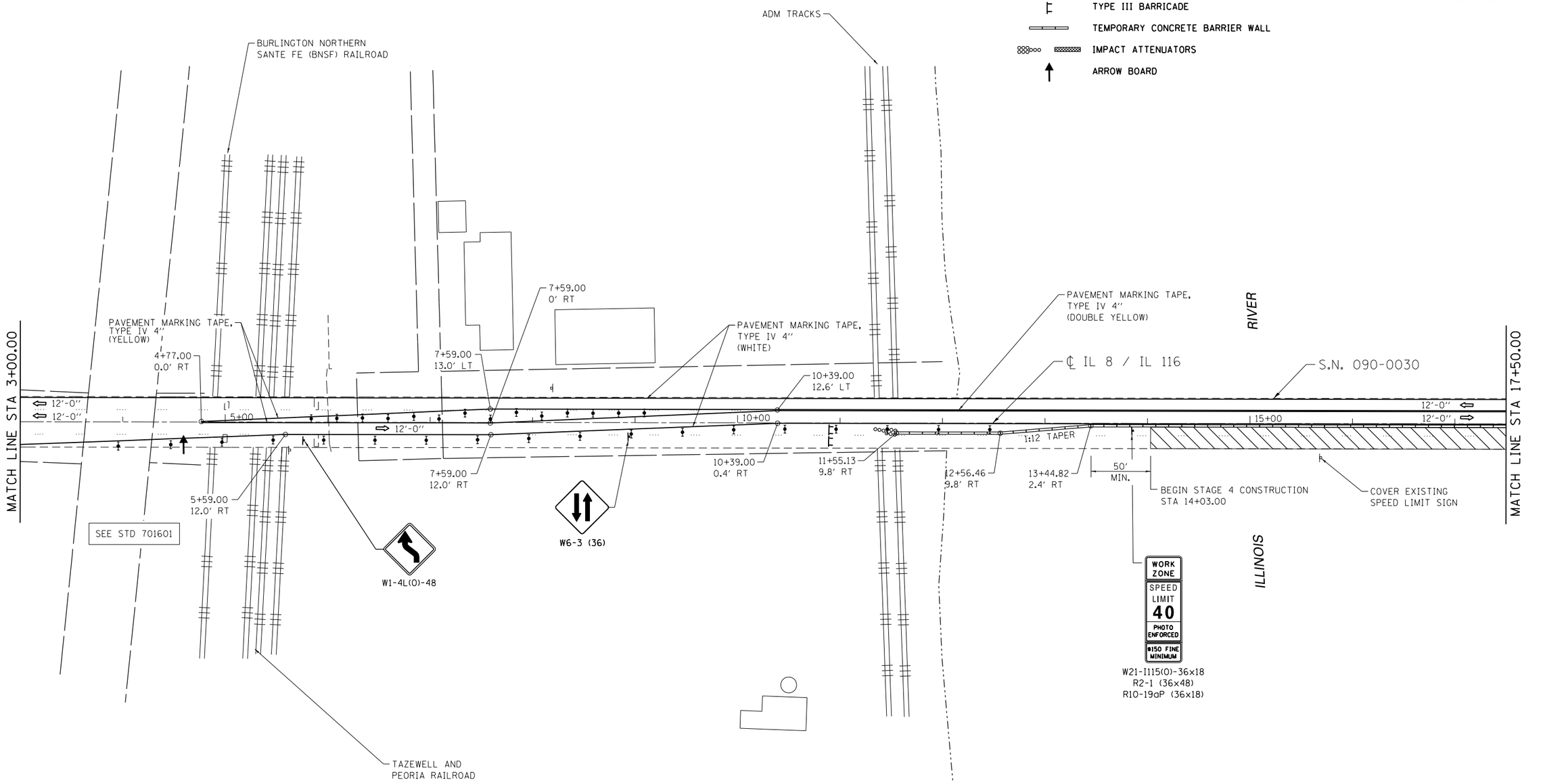
STAGING LEGEND

- WORK ZONE
- TRAFFIC FLOW
- SIGN
- TYPE II BARRICADE, DRUM W/ STEADY BURN MONODIRECTIONAL LIGHT
- TYPE III BARRICADE
- TEMPORARY CONCRETE BARRIER WALL
- IMPACT ATTENUATORS
- ARROW BOARD

N

0 50 100
SCALE IN FEET



(•) PEORIA / TAZEWELL

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PLOT SCALE = 100.0000 ' / in.	CHECKED - MCV	REVISED -	
PLOT DATE = 10/05/2015	DATE - 10/02/2015	REVISED -	

QUIGG ENGINEERING INC

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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

MAINTENANCE OF TRAFFIC – BRIDGE REPAIR
STAGE 4

SCALE: 1" = 50' | SHEET NO. OF SHEETS | STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
669	(103B)I-7	(•)	180	40
		CONTRACT NO. 68A93		
	ILLINOIS FED. AID PROJECT			

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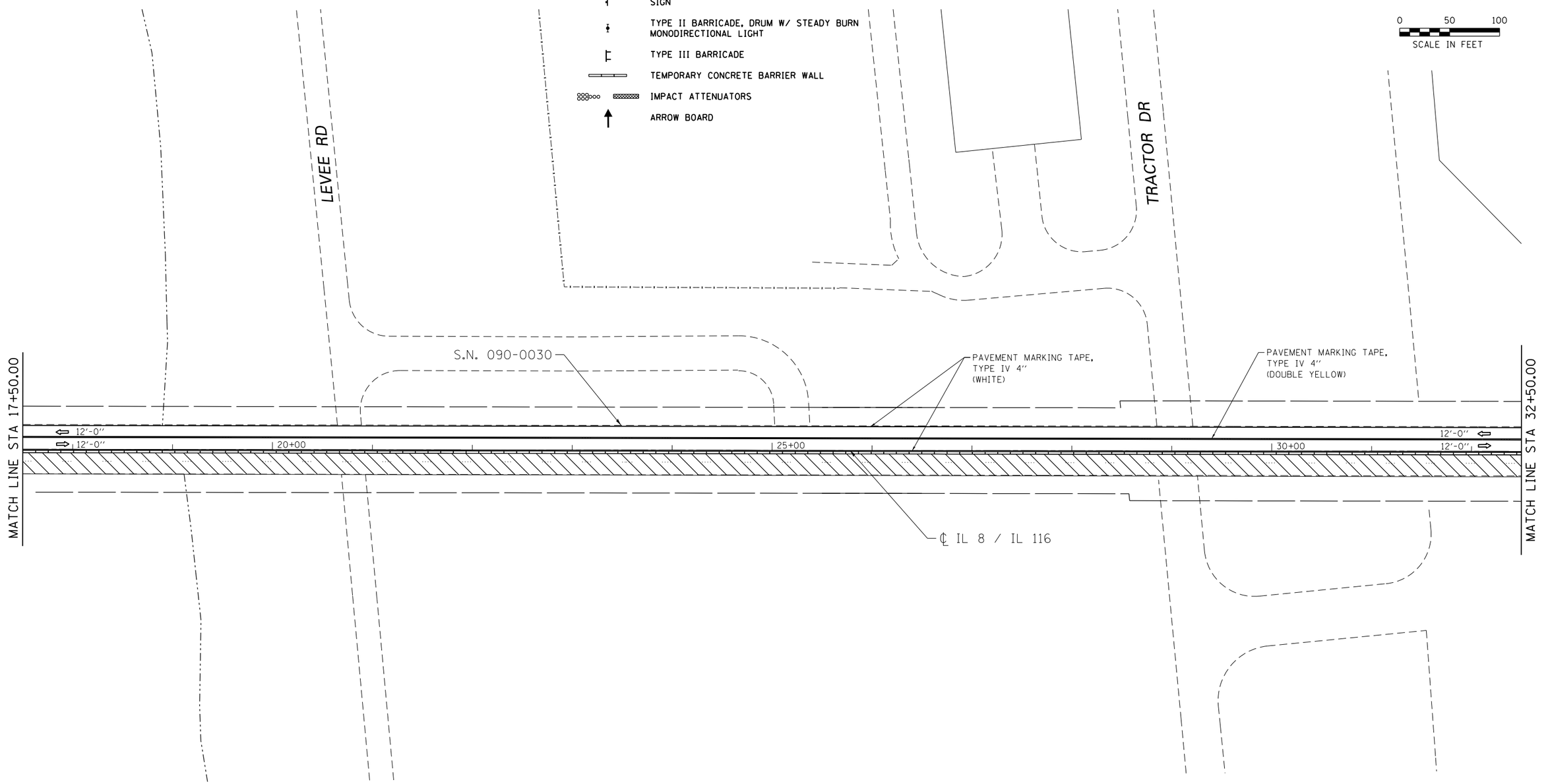
PLOT DRIVER = 15IL004 PDF.pltcfg

STAGING LEGEND

- WORK ZONE
- TRAFFIC FLOW
- SIGN
- TYPE II BARRICADE, DRUM W/ STEADY BURN MONODIRECTIONAL LIGHT
- TYPE III BARRICADE
- TEMPORARY CONCRETE BARRIER WALL
- IMPACT ATTENUATORS
- ARROW BOARD

N

0 50 100
SCALE IN FEET



(•) PEORIA / TAZEWELL

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MODEL = Default
PLOT DRIVER = 15IL004 PDF.pltcfg

QUIGG ENGINEERING INC

USER NAME = rgoertz	DESIGNED - RG	REVISED -
D468A93-sht-Staging-4_03.dgn	DRAWN - RG	REVISED -
PLOT SCALE = 100.0000 ' / in.	CHECKED - MCV	REVISED -
PLOT DATE = 10/05/2015	DATE - 10/02/2015	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

MAINTENANCE OF TRAFFIC – BRIDGE REPAIR
STAGE 4

SCALE: 1" = 50' | SHEET NO. OF SHEETS | STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
669	(103B)I-7	(•)	180	41
		CONTRACT NO. 68A93		
	ILLINOIS FED. AID PROJECT			

STAGING LEGEND

- WORK ZONE
- TRAFFIC FLOW
- SIGN
- TYPE II BARRICADE, DRUM W/ STEADY BURN MONODIRECTIONAL LIGHT
- TYPE III BARRICADE
- TEMPORARY CONCRETE BARRIER WALL
- IMPACT ATTENUATORS
- ARROW BOARD

N

0 50 100
SCALE IN FEET

WORK ZONE
SPEED LIMIT 40
PHOTO ENFORCED
$150 FINE MINIMUM

W21-I115(0)-36x18
R2-1 (36x48)
R10-19aP (36x18)
COVER EXISTING SPEED LIMIT SIGN ON CEDAR STREET BRIDGE WITH ABOVE ASSEMBLY

S.N. 090-0030

PAVEMENT MARKING TAPE, TYPE IV 4" (DOUBLE YELLOW)

PAVEMENT MARKING TAPE, TYPE IV 4" (WHITE)

EXISTING MEDIAN TO REMAIN

EXISTING JOINT

39+73.00

44+17.60

41+26.00
27.0' RT

46+00.00
2.5' LT

RICHLAND ST

MONSON ST

SEE STD 701411

W1-4R(O)-48

MATCH LINE STA 32+50.00

MATCH LINE STA 47+00.00

12'-0"

35+00

40+00

45+00

℄ IL 8 / IL 116

39+41.47
2.5' RT

40+42.44
11.0' RT

43+46.44
11.0' RT

TEMPORARY MEDIAN NOSE

END STAGE 4 CONSTRUCTION
STA 41+10.90

44+40.00
2.5' LT

PAVEMENT MARKING TAPE, TYPE IV 4" (WHITE)

SEE STD 701411

PROPOSED CONCRETE BARRIER REPAIRS

SANFORD ST

MAPLE ST

CLARK ST

(•) PEORIA / TAZEWELL

FILE NAME = S:\Projects\2015 JOBS\15IL004-00 QEI PTB 168-17 D4 Cedar St Bridge\CADD\CADD Sheets\D4468A93-sht-Staging-4_04.dgn
MODEL = Default
PLOT DRIVER = 15IL004 PDF.pltcfg

QUIGG ENGINEERING INC

USER NAME = rgoertz	DESIGNED - RG	REVISED -	
D4468A93-sht-Staging-4_04.dgn	DRAWN - RG	REVISED -	
PLOT SCALE = 100.0000 ' / in.	CHECKED - MCV	REVISED -	
PLOT DATE = 10/05/2015	DATE - 10/02/2015	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

MAINTENANCE OF TRAFFIC – BRIDGE REPAIR
STAGE 4

SCALE: 1" = 50' | SHEET NO. OF SHEETS | STA. TO STA.

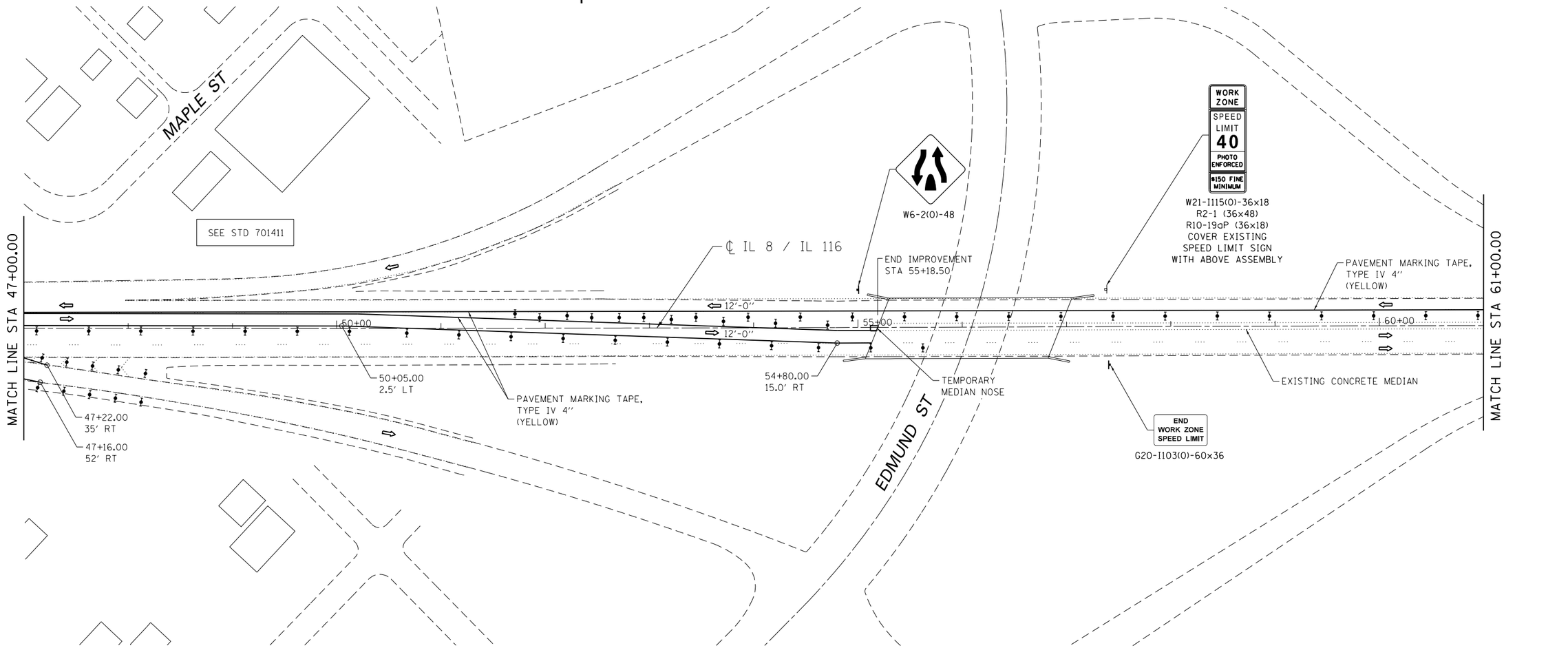
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
669	(103B)I-7	(•)	180	42
		CONTRACT NO. 68A93		
	ILLINOIS FED. AID PROJECT			

STAGING LEGEND

- WORK ZONE
- TRAFFIC FLOW
- SIGN
- TYPE II BARRICADE, DRUM W/ STEADY BURN MONODIRECTIONAL LIGHT
- TYPE III BARRICADE
- TEMPORARY CONCRETE BARRIER WALL
- IMPACT ATTENUATORS
- ARROW BOARD

N

0 50 100
SCALE IN FEET



(*) PEORIA / TAZEWELL

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PLOT DATE = 10/05/2015	DATE - 10/02/2015	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

MAINTENANCE OF TRAFFIC – BRIDGE REPAIR
STAGE 4

SCALE: 1" = 50' | SHEET NO. OF SHEETS | STA. | TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
669	(103B)I-7	(*)	180	43
		CONTRACT NO. 68A93		
	ILLINOIS FED. AID PROJECT			

STAGING LEGEND

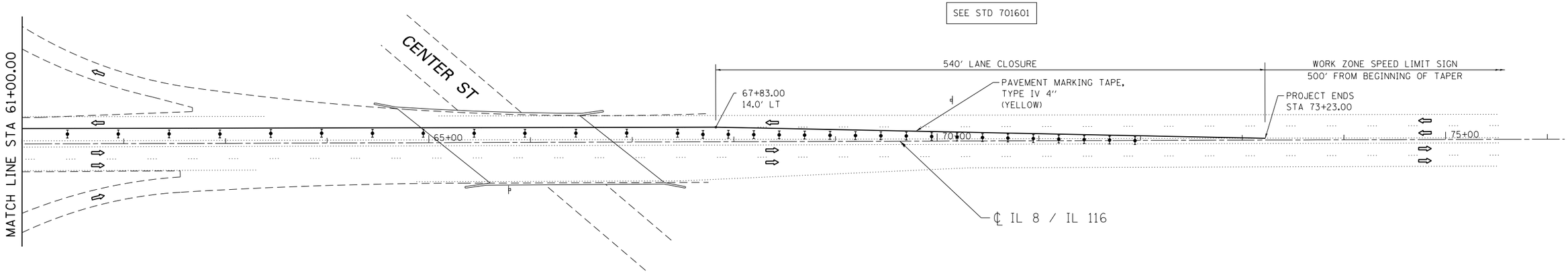
- WORK ZONE
- TRAFFIC FLOW
- SIGN
- TYPE II BARRICADE, DRUM W/ STEADY BURN MONODIRECTIONAL LIGHT
- TYPE III BARRICADE
- TEMPORARY CONCRETE BARRIER WALL
- IMPACT ATTENUATORS
- ARROW BOARD

N

0 50 100
SCALE IN FEET

W21-I115(0)-36x18
R2-1 (36x48)
R10-19aP (36x18)

SEE STD 701601



(•) PEORIA / TAZEWELL

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PLOT DRIVER = 15IL004 PDF.pltcfg

QUIGG ENGINEERING INC

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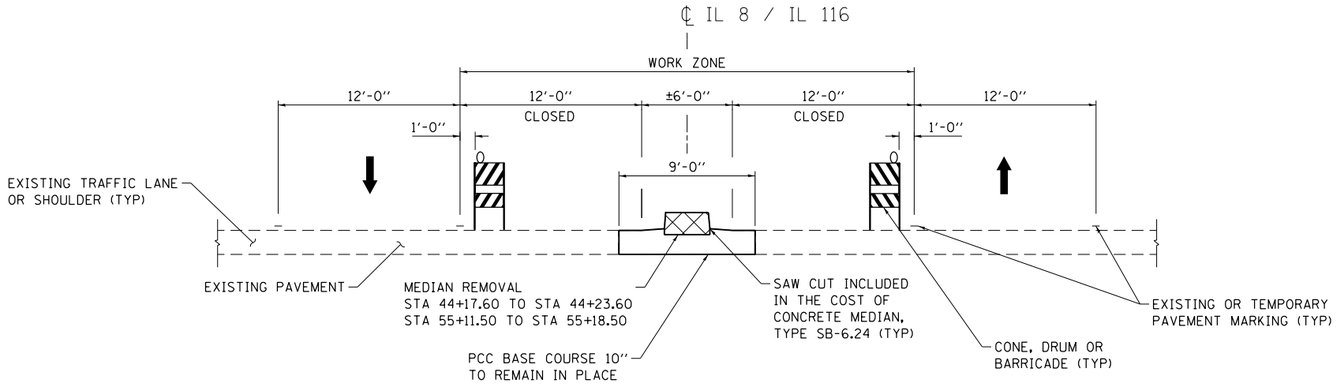
PLOT SCALE = 100.0000 ' / in.	CHECKED - MCV	REVISED -
PLOT DATE = 10/05/2015	DATE - 10/02/2015	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

MAINTENANCE OF TRAFFIC – BRIDGE REPAIR
STAGE 4

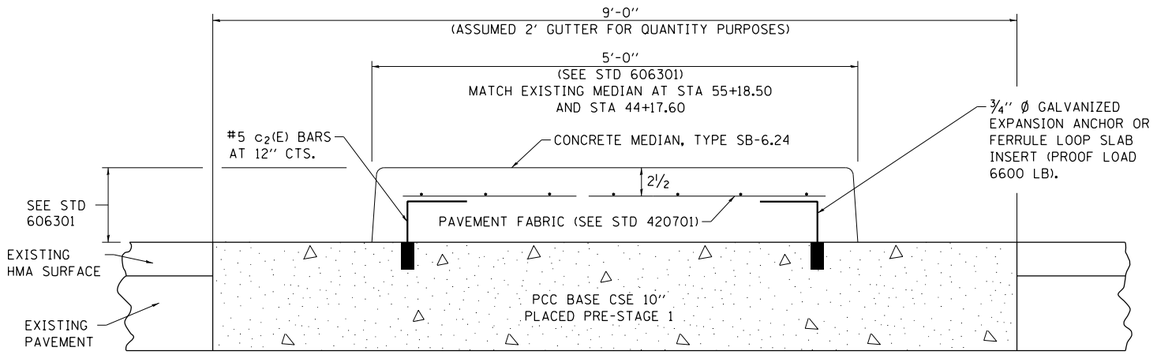
SCALE: 1" = 50' | SHEET NO. OF SHEETS | STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
669	(103B)I-7	(•)	180	44
		CONTRACT NO. 68A93		
	ILLINOIS FED. AID PROJECT			



STAGING TYPICAL – POST STAGE 4

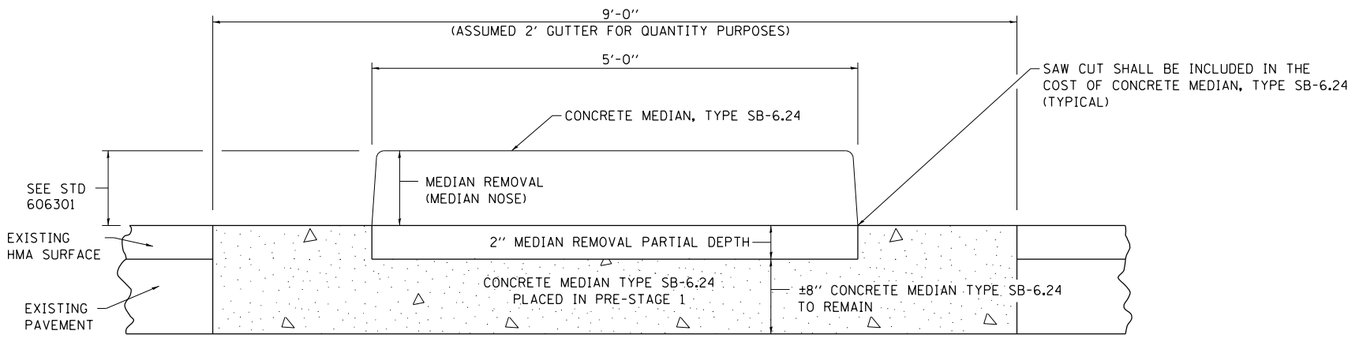
STA 38+77.60 TO STA 60+58.50
LANE CLOSURE: STA 38+77.60 TO STA 44+17.60 (EASTBOUND)
LANE CLOSURE: STA 55+18.50 TO STA 60+58.50 (WESTBOUND)
MEDIAN WORK: STA 44+17.60 TO STA 55+18.50



THE COST OF #5 BARS, PAVEMENT FABRIC AND EXPANSION ANCHORS / INSERTS SHALL BE INCLUDED IN THE COST OF CONCRETE MEDIAN, TYPE SB-6.24

CONCRETE MEDIAN, TYPE SB-6.24

STA 44+23.60 TO STA 55+11.50



THE COST OF #5 BARS, PAVEMENT FABRIC AND EXPANSION ANCHORS / INSERTS SHALL BE INCLUDED IN THE COST OF CONCRETE MEDIAN, TYPE SB-6.24

MEDIAN NOSE REMOVAL AND CONCRETE MEDIAN CONSTRUCTION

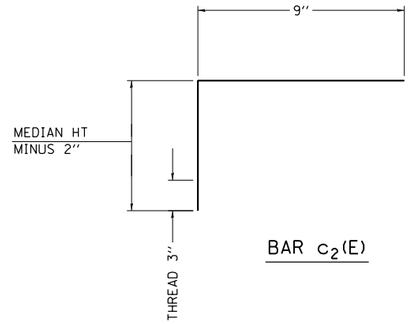
STA 44+17.60 TO STA 44+23.60
STA 55+11.50 TO STA 55+18.50

POST STAGE 4 STAGING NOTES

1. FOLLOWING STAGE 4 CONSTRUCTION, THE CONTRACTOR SHALL PLACE ALL SIGNAGE, DELINEATORS, AND TEMPORARY PAVEMENT MARKING AS DETAILED IN THE PLANS.
2. WESTBOUND AND EASTBOUND TRAFFIC WILL BE REDUCED TO 1 LANE IN EACH DIRECTION AS DETAILED IN THE PLANS.

POST STAGE 4 CONSTRUCTION NOTES

1. THE CONTRACTOR SHALL REMOVE TEMPORARY MEDIAN NOSES PLACED IN PRE-STAGE 1 AS SHOWN ON THE DETAIL ON THIS SHEET AND CONSTRUCT CONCRETE MEDIAN, TYPE SB-6.24 OF VARIABLE WIDTH TO MATCH EXISTING CONDITIONS. WORK SHALL BE DONE IN ACCORDANCE WITH THE APPLICABLE PORTIONS OF SECTION 606 OF THE STANDARD SPECIFICATIONS, STANDARD 606301, AND THE DETAIL SHOWN ON THIS SHEET.



BAR c_2(E)

(*) PEORIA / TAZEWELL

FILE NAME = S:\Projects\2015 JOBS\15IL004-00 QEI PTB 168-17 04 Cedar St Bridge\CADD\CADD Sheets\D468A93-sht-Staging-Post4_Typ.dgn
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QUIGG ENGINEERING INC	USER NAME = rgoertz	DESIGNED - RG	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	MAINTENANCE OF TRAFFIC – NOTES AND TYPICAL SECTION POST STAGE 4
	D468A93-sht-Staging-Post4_Typ.dgn	DRAWN - RG	REVISED -		
	PLOT SCALE = 10.0000 ' / in.	CHECKED - MCV	REVISED -		
	PLOT DATE = 10/05/2015	DATE - 10/02/2015	REVISED -		SCALE: NONE | SHEET NO. OF SHEETS | STA. TO STA.

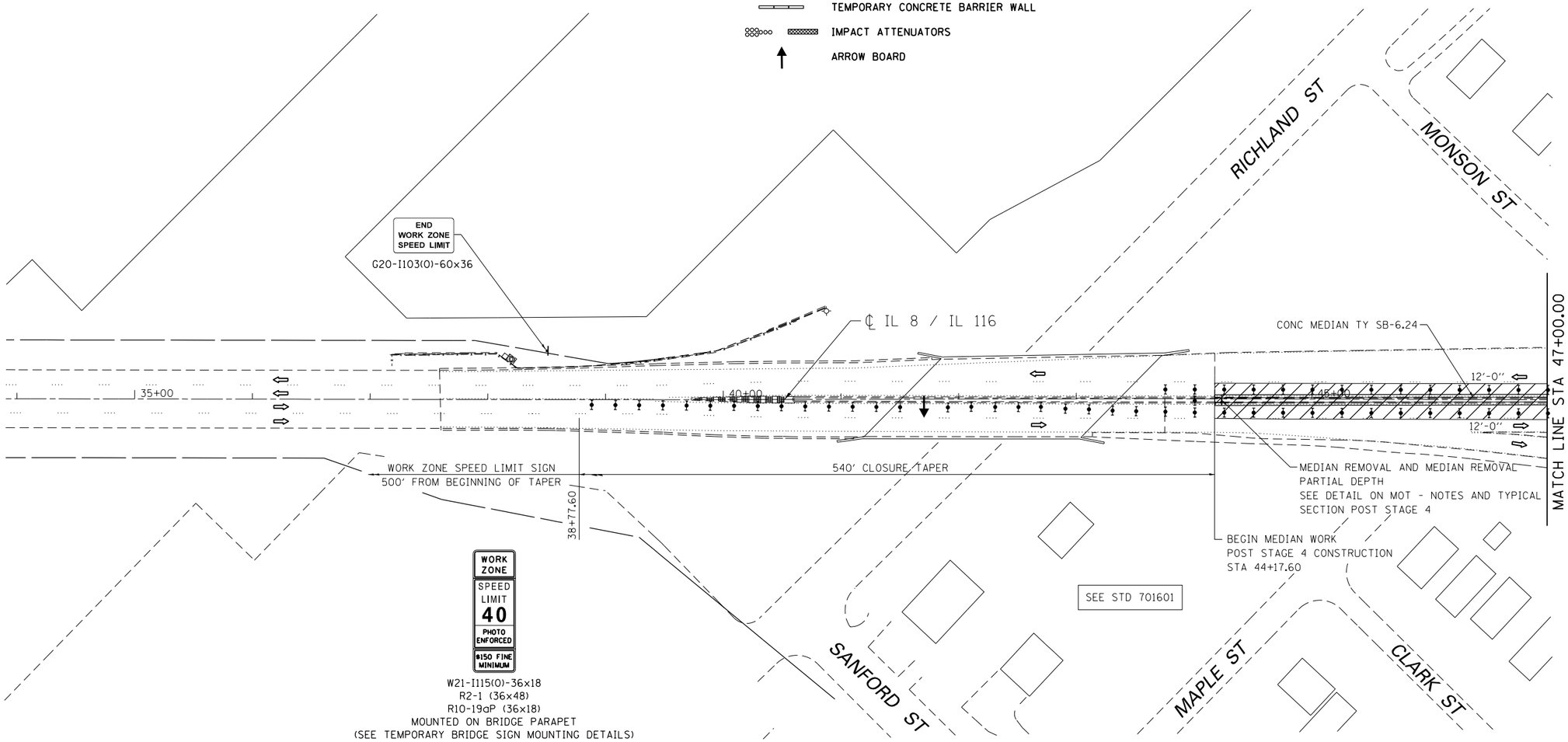
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
669	(103B)I-7	(*)	180	45
		CONTRACT NO. 68A93		
		ILLINOIS FED. AID PROJECT		

STAGING LEGEND

- WORK ZONE
- TRAFFIC FLOW
- SIGN
- TYPE II BARRICADE, DRUM W/ STEADY BURN MONODIRECTIONAL LIGHT
- TYPE III BARRICADE
- TEMPORARY CONCRETE BARRIER WALL
- IMPACT ATTENUATORS
- ARROW BOARD

N

0 50 100
SCALE IN FEET



NOTE:

CONCRETE MEDIAN RECONSTRUCTION SHALL BE COMPLETED AFTER STAGE 4 BRIDGE REPAIRS ARE COMPLETE, AND STAGE 4 TRAFFIC CONTROL IS REMOVED.

(*) PEORIA / TAZEWELL

FILE NAME = S:\Projects\2015 JOBS\15IL004-00 QEI PTB 188-17 D4 Cedar St Bridge\CADD\CADD Sheets\D468A93-sht-Staging-Post4_4.dgn
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QUIGG ENGINEERING INC

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PLOT SCALE = 100.0000 '/ in.	CHECKED - MCV	REVISED -	
PLOT DATE = 10/05/2015	DATE - 10/02/2015	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

MAINTENANCE OF TRAFFIC – MEDIAN RECONSTRUCTION
POST STAGE 4

SCALE: 1" = 50' | SHEET NO. OF SHEETS | STA. | TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
669	(103B)I-7	(*)	180	46
		CONTRACT NO. 68A93		
	ILLINOIS FED. AID PROJECT			

STAGING LEGEND

- WORK ZONE
- TRAFFIC FLOW
- SIGN
- TYPE II BARRICADE, DRUM W/ STEADY BURN MONODIRECTIONAL LIGHT
- TYPE III BARRICADE
- TEMPORARY CONCRETE BARRIER WALL
- IMPACT ATTENUATORS
- ARROW BOARD

N

0 50 100
SCALE IN FEET

WORK ZONE
SPEED LIMIT 40
PHOTO ENFORCED
•150 FINE MINIMUM

W21-I115(O)-36x18
R2-1 (36x48)
R10-19aP (36x18)

MAPLE ST

SEE STD 701411

SEE STD 701601

MATCH LINE STA 47+00.00

CONC MEDIAN TY SB-6.24

℄ IL 8 / IL 116

12'-0"

END IMPROVEMENT AND POST STAGE 4 CONSTRUCTION STA 55+18.50

COVER EXISTING SPEED LIMIT SIGN

540' CLOSURE TAPER

WORK ZONE SPEED LIMIT SIGN 500' FROM BEGINNING OF TAPER

60+58.50

60+00

MEDIAN REMOVAL AND MEDIAN REMOVAL PARTIAL DEPTH
SEE DETAIL ON MOT - NOTES AND TYPICAL SECTION POST STAGE 4

EDMUND ST

END WORK ZONE SPEED LIMIT

G20-I103(O)-60x36

(•) PEORIA / TAZEWELL

FILE NAME = S:\Projects\2015 JOBS\15IL004-00 QEI PTB 168-17 D4 Cedar St Bridge\CADD\CADD Sheets\D468A93-sht-Staging-Post4.5.dgn
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QUIGG ENGINEERING INC

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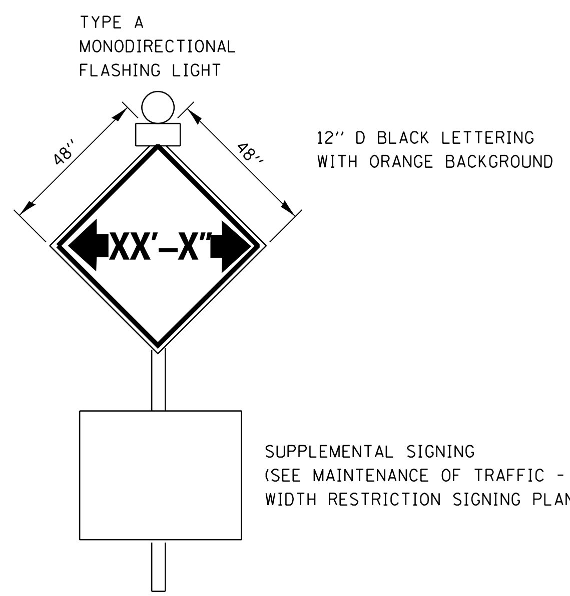
PLOT DATE = 10/05/2015	DATE - 10/02/2015	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

MAINTENANCE OF TRAFFIC – MEDIAN RECONSTRUCTION
POST STAGE 4

SCALE: 1" = 50' | SHEET NO. OF SHEETS | STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
669	(103B)I-7	(•)	180	47
		CONTRACT NO. 68A93		
	ILLINOIS FED. AID PROJECT			



TO BE POST MOUNTED AND PLACED AS DETERMINED BY THE ENGINEER.

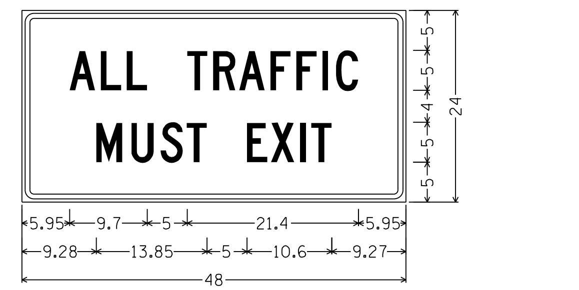
THE ENGINEER WILL NOTIFY DISTRICT 4 TRAFFIC CONTROL SUPERVISOR 21 CALENDAR DAYS PRIOR TO INSTALLING ANY TRAFFIC CONTROL DEVICES THAT WILL RESTRICT THE PAVEMENT WIDTH.

THE CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATING WITH THE ENGINEER TO MEET THIS REQUIREMENT.

COST OF SUPPLYING, INSTALLING, MAINTAINING AND REMOVING ALL WIDTH RESTRICTION SIGNS WILL NOT BE PAID FOR SEPARATELY, BUT WILL BE INCLUDED IN THE COST OF TRAFFIC CONTROL AND PROTECTION PAY ITEMS.

SEE SPECIAL PROVISIONS.

WIDTH RESTRICTION SIGNING DETAILS



1.50" Radius, 0.63" Border, 0.38" Indent, Black on Orange;
[ALL TRAFFIC] C 2K; [MUST EXIT] C 2K;
Table of letter and object lefts.

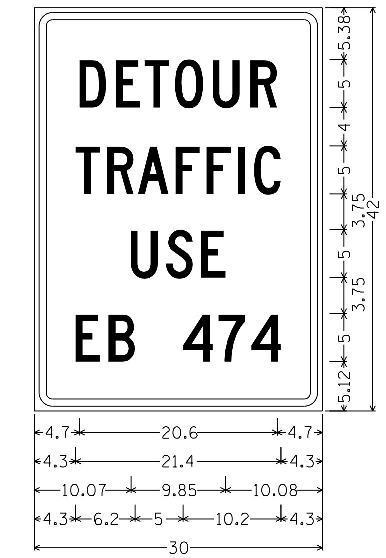
A	L	L
5.95	9.85	13.10

T	R	A	F	F	I	C
20.65	23.90	27.15	31.05	34.30	37.55	39.25

M	U	S	T
9.28	13.68	17.33	20.58

E	X	I	T
28.13	31.13	34.78	36.17

SIGN PANEL DETAIL
SP–1



1.88" Radius, 0.75" Border, 0.50" Indent, Black on Orange;
[DETOUR] C 2K; [TRAFFIC] C 2K;
[USE] C 2K; [EB 474] C 2K;
Table of letter and object lefts.

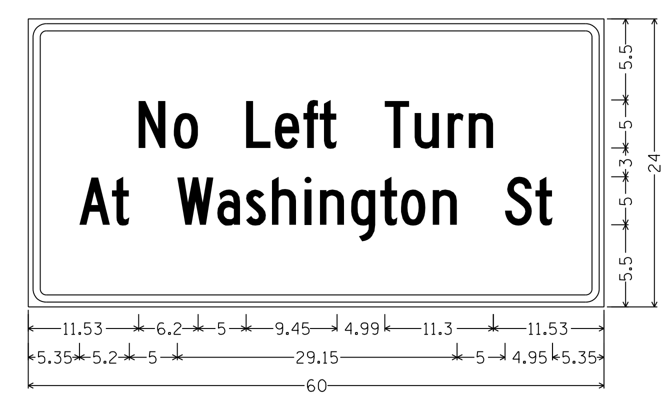
D	E	T	O	U	R
4.70	8.50	11.50	14.65	18.60	22.50

T	R	A	F	F	I	C
4.30	7.55	10.80	14.70	17.95	21.20	22.90

U	S	E
10.07	13.72	17.37

E	B	4	7	4
4.30	7.70	15.50	19.20	22.60

SIGN PANEL DETAIL
SP–2



1.88" Radius, 0.75" Border, 0.50" Indent, Black on Orange;
[No Left Turn] C 2K; [At Washington St] C 2K;
Table of letter and object lefts.

N	o	L	e	f	t	T	u	r	n
11.53	15.18	22.73	25.73	28.68	30.38	37.17	40.28	43.72	45.93

A	t
5.35	8.75

W	a	s	h	i	n	g	t	o	n
15.55	19.70	22.70	25.40	28.80	30.40	33.65	36.70	38.85	42.15

S	t
49.70	52.85

SIGN PANEL DETAIL
SP–3

(*) PEORIA / TAZEWELL

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QUIGG ENGINEERING INC

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PLOT DATE = 10/05/2015	DATE - 10/02/2015	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

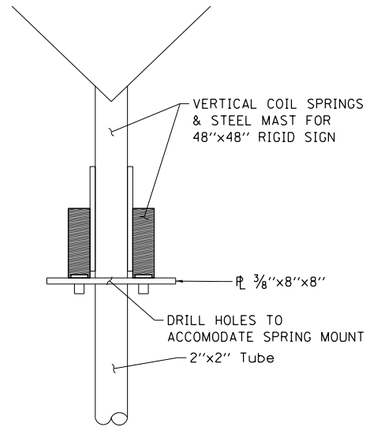
MAINTENANCE OF TRAFFIC – SIGN DETAILS

SCALE: NONE | SHEET NO. OF SHEETS | STA. TO STA.

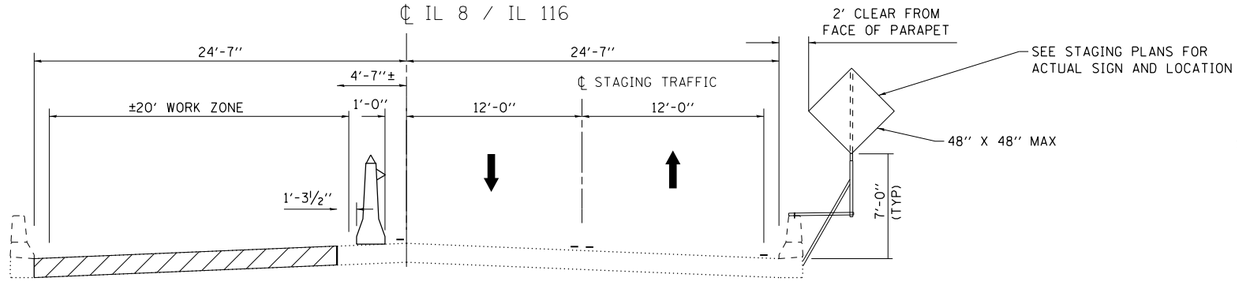
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
669	(103B)I-7	(*)	180	48

CONTRACT NO. 68A93

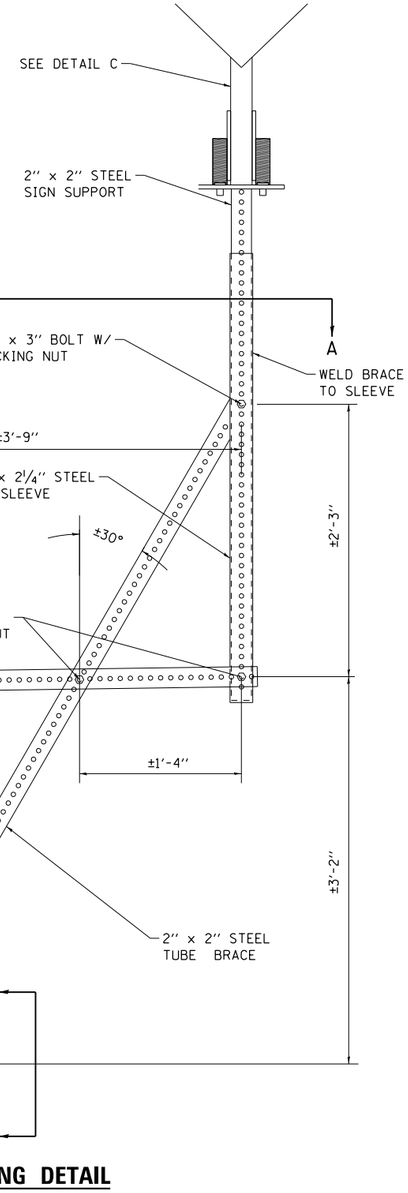
ILLINOIS FED. AID PROJECT



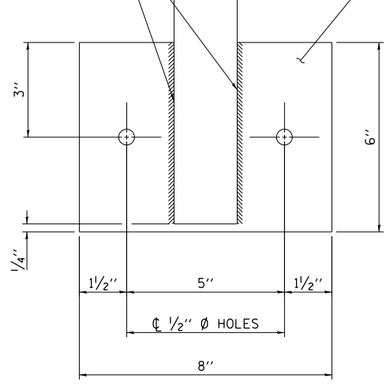
DETAIL C



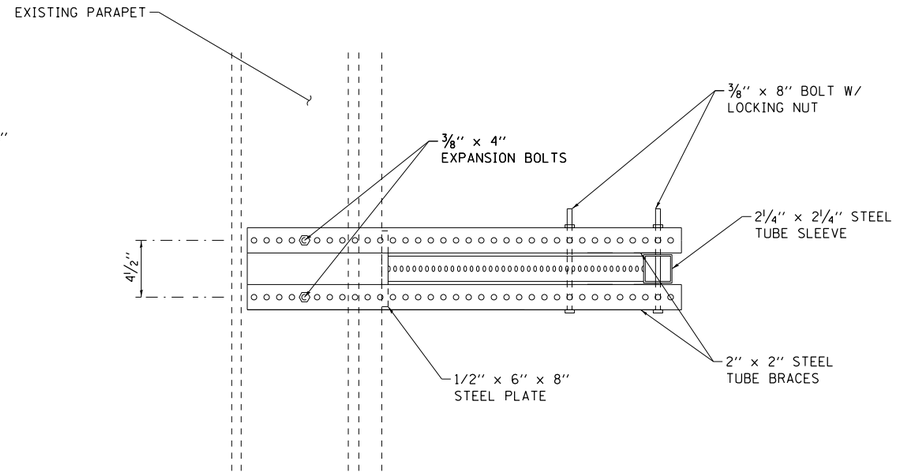
TYPICAL SECTION



SIGN MOUNTING DETAIL



SECTION B – B



SECTION A – A

NOTES:

1. CONTRACTOR MAY USE ALTERNATE BRIDGE MOUNTING BRACKETS AS APPROVED BY THE ENGINEER.
2. STEEL TUBES SHALL MEET THE REQUIREMENTS OF ART. 1093.01 OF THE STANDARD SPECIFICATIONS.
3. STEEL TUBES, BOLTS, EXPANSION BOLTS, AND STEEL PLATES SHALL NOT BE PAID FOR SEPARATELY, BUT SHALL BE INCLUDED IN THE COST TRAFFIC CONTROL AND PROTECTION, (SPECIAL).
4. FOLLOWING REMOVAL OF TEMPORARY SIGN SUPPORT, CONTRACTOR SHALL REMOVE EXPANSION BOLTS AND FILL REMAINING HOLES WITH NON-SHRINK GROUT. THIS WORK SHALL NOT BE PAID FOR SEPARATELY, BUT SHALL BE INCLUDED IN THE COST OF TRAFFIC CONTROL AND PROTECTION, (SPECIAL).

(•) PEORIA / TAZEWELL

FILE NAME = S:\Projects\2015 JOBS\15IL004-00 QEI PTB 188-17 D4 Cedar St Bridge\CADD\CADD Sheets\D468A93-sht-Staging-Sign_Mounting_Detail.dgn
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QUIGG ENGINEERING INC

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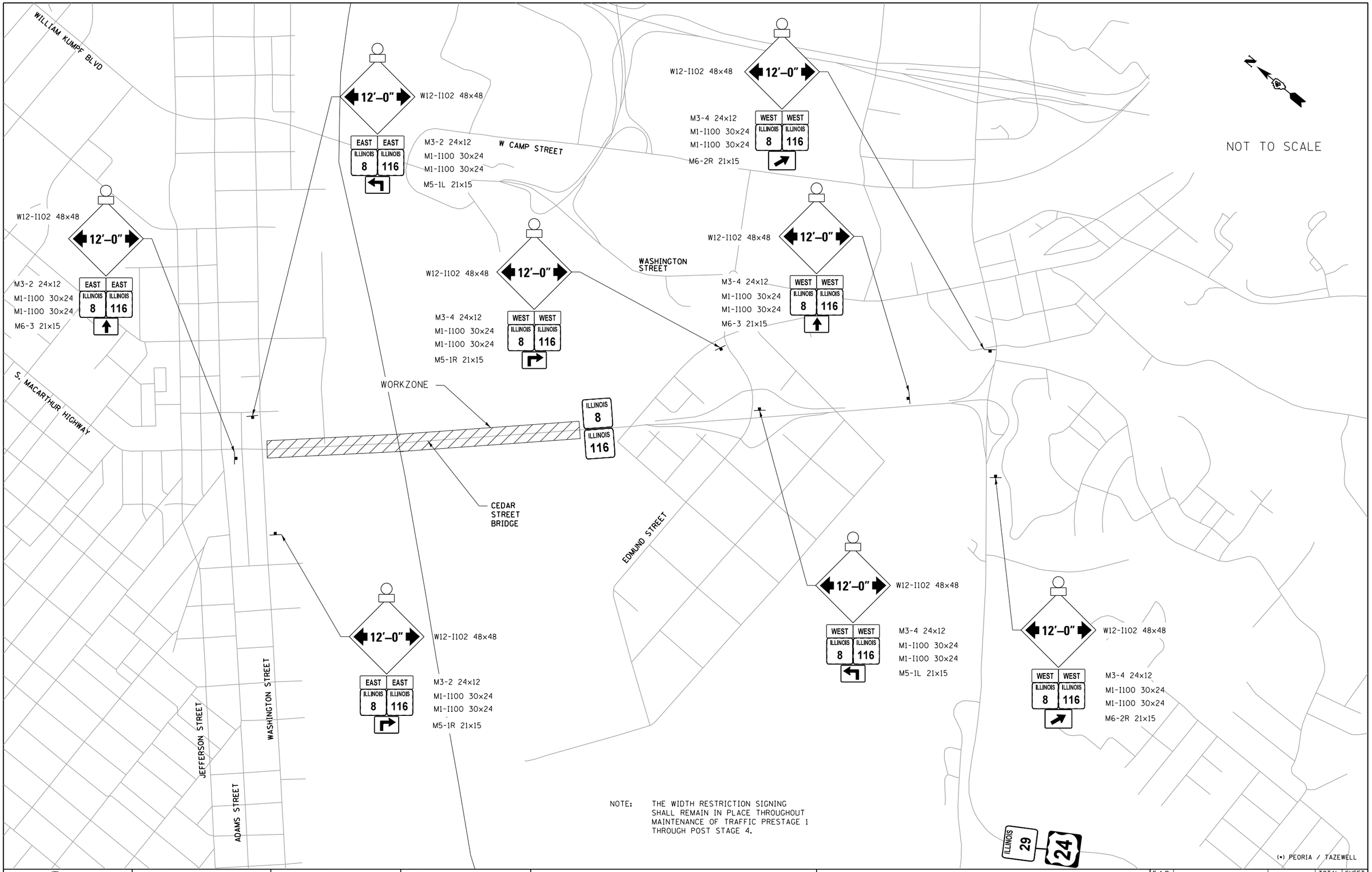
PLOT SCALE = 10.0000 ' / in.	CHECKED - MCV	REVISED -	
PLOT DATE = 10/05/2015	DATE - 10/02/2015	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

MAINTENANCE OF TRAFFIC – TEMPORARY BRIDGE SIGN MOUNTING DETAILS

SCALE: NONE | SHEET NO. OF SHEETS | STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
669	(103B)I-7	(•)	180	49
		CONTRACT NO. 68A93		
	ILLINOIS FED. AID PROJECT			



NOTE: THE WIDTH RESTRICTION SIGNING SHALL REMAIN IN PLACE THROUGHOUT MAINTENANCE OF TRAFFIC PRESTAGE 1 THROUGH POST STAGE 4.

FILE NAME = S:\Projects\2015 JOBS\15IL004-00 QEI PTB 168-17 D4 Cedar St Bridge\CADD\CADD Sheets\D468A93-sht-Staging-Width_Restriction.dgn
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QUIGG ENGINEERING INC

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PLOT SCALE = 10000.0000 ' / in.	CHECKED - MCV	REVISED -	
PLOT DATE = 10/05/2015	DATE - 10/02/2015	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

MAINTENANCE OF TRAFFIC
WIDTH RESTRICTION SIGNING PLAN

SCALE: | SHEET NO. OF SHEETS | STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
669	(103B)I-7	(•)	180	50
		CONTRACT NO. 68A93		
	ILLINOIS FED. AID PROJECT			

BRIDGE CLOSURE STAGING NOTES

1. THE BRIDGE CLOSURE STAGE SHALL BE COMPLETED DURING THE FIRST CONSTRUCTION SEASON, BY NOVEMBER 23, 2016. THIS STAGE IS ASSUMED TO BE COMPLETED AFTER STAGE 4 IS COMPLETE. HOWEVER, THE CONTRACTOR MAY COMPLETE THIS WORK ANYTIME DURING THE 2016 CONSTRUCTION SEASON, WITH APPROVAL FROM THE ENGINEER.

2. THE CEDAR STREET BRIDGE WILL BE CLOSED TO TRAFFIC FOR A MAXIMUM OF 45 DAYS. THE CONTRACTOR SHALL NOTIFY THE ENGINEER IN WRITING 21 DAYS PRIOR TO CLOSING THE BRIDGE.

3. PRIOR TO BRIDGE CLOSURE, THE CONTRACTOR SHALL INSTALL ALL MAINTENANCE OF TRAFFIC SIGNING AND DEVICES SHOWN AND NOTED ON THE "MAINTENANCE OF TRAFFIC STATE ROUTE DETOUR - BRIDGE CLOSURE STAGE" AND DETAILS. THE SIGNALS AT WASHINGTON STREET SHALL ALSO BE ADJUSTED PRIOR TO CLOSURE.

4. THE CONTRACTOR SHALL PLACE FINAL PAVEMENT MARKING PRIOR TO REMOVING DETOUR SIGNING AND DEVICES.

BRIDGE CLOSURE STAGE – CONSTRUCTION NOTES

1. COMPLETE THE FOLLOWING IMPROVEMENTS TO THE CEDAR STREET BRIDGE:

   - REPLACE PIN AND LINK ASSEMBLIES
   - REPLACE ROCKER BEARINGS AND END FRAME AT SPAN 20, PIER 19
   - EXPANSION JOINT REPLACEMENTS
   - DECK REPAIRS ALONG CENTERLINE OF THE BRIDGE
   - REPLACE REMAINING PORTION OF VAULTED WEST ABUTMENT SLAB (EB LANES AND MIDDLE PORTION)

(*) PEORIA / TAZEWELL

QUIGG ENGINEERING INC

USER NAME = rgoertz	DESIGNED - RG	REVISED -
D468A93-sht-Staging-Bridge_Closure_Notes.dgn	DRAWN - RG	REVISED -
PLOT SCALE = 10.0000 ' / in.	CHECKED - MCV	REVISED -
PLOT DATE = 10/05/2015	DATE - 10/02/2015	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

MAINTENANCE OF TRAFFIC
BRIDGE CLOSURE STAGE – GENERAL NOTES

SCALE: NONE | SHEET NO. OF SHEETS | STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
669	(103B)I-7	(*)	180	51
		CONTRACT NO. 68A93		
	ILLINOIS FED. AID PROJECT			

FILE NAME = S:\Projects\2015 JOBS\15IL004-00 QEI PTB 168-17 D4 Cedar St Bridge\CADD\CADD Sheets\D468A93-sht-Staging-Bridge_Closure_Notes.dgn
MODEL = Default
PLOT DRIVER = 15IL004 PDF.pltcfg

IL 8/116 CEDAR STREET BRIDGE DETOUR/CLOSURE

E-BND DETOUR SIGNAGE

DETOUR / EAST / ILLINOIS 8 / ILLINOIS 116

1 ASSEMBLY FROM BRIDGE TO ADAMS ST. INTERSECTION ON W-BND WASHINGTON ST.

DETOUR / EAST / ILLINOIS 8 / ILLINOIS 116

1 ASSEMBLY 100' IN ADVANCE OF SIGNALS @ ADAMS ST..

DETOUR TRAFFIC USE E-BND 474 / RIGHT LANE

2 ASSEMBLIES @ WEST SIDE OF VIADUCT OVER RR-PARALLEL TO EACH OTHER.

DETOUR / EAST / ILLINOIS 8 / ILLINOIS 116

1 ASSEMBLY 1000' IN ADVANCE OF E-BND I-474 ENTRANCE RAMP.

DETOUR / EAST / ILLINOIS 8 / ILLINOIS 116

1 ASSEMBLY 300' IN ADVANCE OF EB I-474 ENTRANCE RAMP.

OVERSIZE

DETOUR / EXIT 9 / EAST / ILLINOIS 8 / ILLINOIS 116

1 ASSEMBLY DIRECTLY ADJACENT TO EXISTING GREEN INTERSTATE EXIT 9 SIGN ON WEST SIDE OF SHADE LOHMAN BRIDGE.

DETOUR / EAST / ILLINOIS 8 / ILLINOIS 116

1 ASSEMBLY DIRECTLY ADJACENT TO EXISTING GREEN INTERSTATE EXIT 9 SIGN ON EAST SIDE OF SHADE LOHMAN BRIDGE.

DETOUR / EAST / ILLINOIS 8 / ILLINOIS 116

1 ASSEMBLY DIRECTLY ADJACENT TO EXISTING GREEN INFORMATION SIGN ON SOUTH SIDE OF RAMP.

DETOUR / EAST / ILLINOIS 8 / ILLINOIS 116

1 ASSEMBLY BETWEEN I-474 AND CEDAR STREET BRIDGE ON IL 29 .

EAST IL 8/116 (CEDAR ST. BRIDGE) CLOSED FOLLOW DETOUR

1 ASSEMBLY ON WASHINGTON ST. NORTH/EAST SIDE OF RR VIADUCT.

DETOUR / EAST / ILLINOIS 8 / ILLINOIS 116 — DETOUR / WEST / ILLINOIS 8 / ILLINOIS 116 (FROM W-BND DETOUR SIGNAGE)

1 ASSEMBLY LOCATED 1800' IN ADVANCE OF WASHINGTON ST./ ADAMS ST. SPLIT.

DETOUR / EAST / ILLINOIS 8 / ILLINOIS 116

1 ASSEMBLY AT THE U-TURN LOOP.

END DETOUR / EAST / ILLINOIS 8 / ILLINOIS 116

1 ASSEMBLY PRIOR TO CEDAR STREET EXTENSION RAMPS ON N-BND IL 29.

W-BND DETOUR SIGNAGE

DETOUR AHEAD / WEST / ILLINOIS 8 / ILLINOIS 116

1 ASSEMBLY LOCATED ADJACENT TO HARDEES.

WEST / ILLINOIS 8 / WEST / ILLINOIS 116 (EXISTING)

DETOUR

METAL BAND TO EXISTING POLE ABOVE THE "WEST" SIGN. THIS SIGN USED ONLY ON LIGHT POLE.

MOUNT OVER EXISTING SIGN.

TWO IDENTICAL LOCATIONS:
LIGHT POLE
WOOD POST MOUNT

EDMUND ST. EXIT OPEN / RIVER BRIDGE OUT / LOCAL TRAFFIC ONLY

1 ASSEMBLY LOCATED AT BEGINNING OF RAMP TO CEDAR ST. EXTENSION, EAST AND WESTBOUND

DETOUR / WEST / ILLINOIS 8 / ILLINOIS 116

1 ASSEMBLY BETWEEN I-474 AND CEDAR STREET BRIDGE ON IL 29 .

DETOUR / WEST / ILLINOIS 8 / ILLINOIS 116

1 ASSEMBLY 500' IN ADVANCE OF WB I-474 ENTRANCE RAMP.

DETOUR / WEST / ILLINOIS 8 / ILLINOIS 116

1 ASSEMBLY JUST SOUTH OF FISCHER ST. AT SIGNALS PRIOR TO W-BND I-474 ENTRANCE RAMP.

DETOUR / EXIT 6B / WEST / ILLINOIS 8 / ILLINOIS 116

1 ASSEMBLY 1500' IN ADVANCE OF WB I-474 EXIT 6B.

DETOUR / WEST / ILLINOIS 8 / ILLINOIS 116

1 ASSEMBLY 300' IN ADVANCE OF WB I-474 EXIT 6B.

OVERSIZE

DETOUR / WEST / ILLINOIS 8 / ILLINOIS 116

1 ASSEMBLY LOCATED 1800' IN ADVANCE OF WASHINGTON ST./ ADAMS ST. SPLIT.

DETOUR / WEST / ILLINOIS 8 / ILLINOIS 116

1 ASSEMBLY LOCATED 300' IN ADVANCE OF WASHINGTON ST./ ADAMS ST. SPLIT.

END DETOUR / WEST / ILLINOIS 8 / ILLINOIS 116

1 ASSEMBLY LOCATED 100' IN ADVANCE OF WASHINGTON ST./ IL 8 & 116.

MISC. DETOUR SIGNAGE

WEST IL 8/116 (CEDAR ST. BRIDGE) CLOSED FOLLOW DETOUR
EDMUND ST. EXIT OPEN

1 ASSEMBLY LOCATED AT THE FOLLOWING:
-100' NORTH OF LASALLE BLVD. IN NORTH PEKIN
- 100' IN ADVANCE OF EXIT 9 ON W-BND 474

DETOUR / WEST / ILLINOIS 8 / ILLINOIS 116

1 ASSEMBLY ON N-BND IL 29 ADJACENT TO US/24 BARTONVILLE SIGN TO W-BND I-474.

DETOUR / WEST / ILLINOIS 8 / ILLINOIS 116

1 ASSEMBLY ON W-BND I-474 ADJACENT TO EXIT 9 SIGN IN THE GORE AREA.

WEST IL 8/116 (CEDAR ST. BRIDGE) CLOSED FOLLOW DETOUR
EDMUND ST. EXIT OPEN

1 ASSEMBLY LOCATED AT THE FOLLOWING:
-IL 116/29/US 24 ADJACENT TO KOHLS
-IL 8/US 150 IN ADVANCE OF W-BND 74 EXIT

(*) PEORIA / TAZEWELL

FILE NAME = S:\Projects\2015 JOBS\15IL004-00 OE\PTB 168-17 D4 Cedar St Bridge\CADD\CADD Sheets\D468A93-sht-Staging-Bridge_Closure_Detour.dgn
MODEL = Default
PLOT DRIVER = 15IL004 PDF.pltcfg

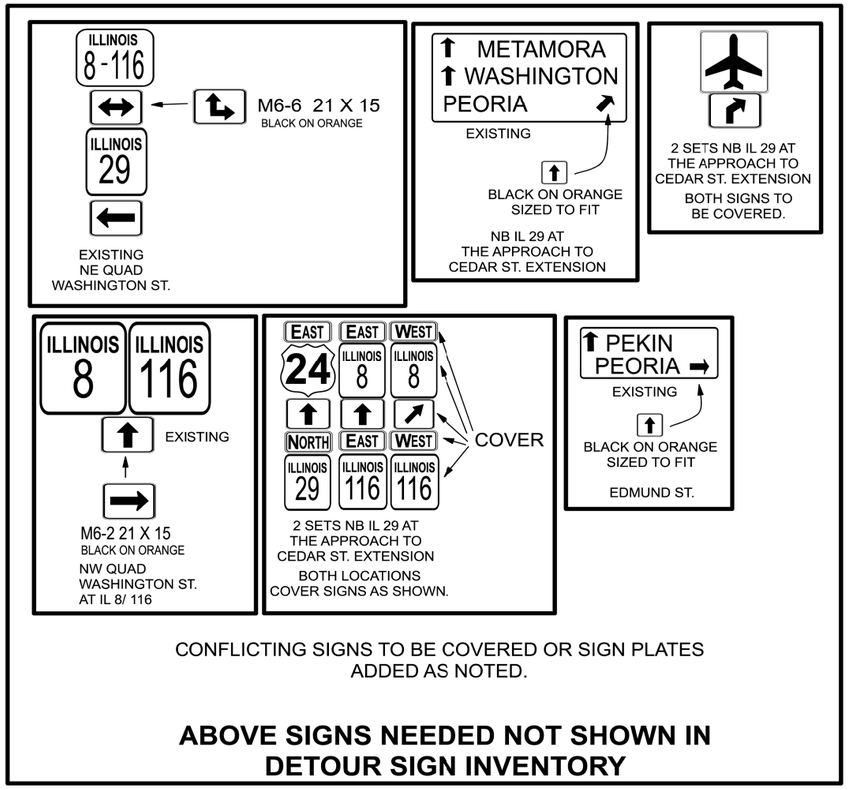
USER NAME = rgoertz	DESIGNED - IDOT D-4	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	MAINTENANCE OF TRAFFIC STATE ROUTE DETOUR – BRIDGE CLOSURE STAGE
D468A93-sht-Staging-Bridge_Closure_Detour.dgn	DRAWN - IDOT D-4	REVISED -		
PLOT SCALE = 20000.0000 ' / in.	CHECKED - IDOT D-4	REVISED -		SCALE: SHEET NO. OF SHEETS STA. TO STA.
PLOT DATE = 10/05/2015	DATE - 10/02/2015	REVISED -		

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
669	(103B)I-7	(*)	180	52
		CONTRACT NO. 68A93		
	ILLINOIS FED. AID PROJECT			

DETOUR SIGN INVENTORY

SIGN	DESCRIPTION	TOTAL
DETOUR AHEAD	W20-2 48X48	3
DETOUR →	M4-9 (R) 48 X 36 OVERSIZE	2
DETOUR ←	M4-9 (L) 30 X 24	4
DETOUR →	M4-9 (R) 30 X 24	7
DETOUR ↑	30 X 24	7
END DETOUR	M4-8a 24 X 18	2
DETOUR ↱	30 X 24	5
DETOUR ↰	30 X 24	1
EAST	M3-2 24 X 12 BLACK ON WHITE	13
WEST	M3-4 24 X 12 BLACK ON WHITE	14
ILLINOIS 8	M1-I100 30 X 24 BLACK ON WHITE	28
ILLINOIS 116	M1-I100 30 X 24 BLACK ON WHITE	28
EXIT 6B	24 X 12 WHITE ON GREEN	1
EXIT 9	24 X 12 WHITE ON GREEN	1
↑	M6-3 21 X 15 BLACK ON ORANGE	4

SIGN	DESCRIPTION	TOTAL
EAST IL 8/ 116 (CEDAR STREET BRIDGE) CLOSED FOLLOW DETOUR	48 X 48 BLACK ON ORANGE	1
WEST IL 8/ 116 (CEDAR STREET BRIDGE) CLOSED FOLLOW DETOUR	48 X 48 BLACK ON ORANGE	4
EDMUND ST. EXIT OPEN	48 X 15 WHITE ON GREEN	5
RIVER BRIDGE OUT LOCAL TRAFFIC ONLY	60 X 30 BLACK ON WHITE MODIFIED R11-3B	2
RIGHT LANE	M5-6 24 X 18 BLACK ON WHITE	1
DETOUR TRAFFIC USE E-BND 474	SEE SIGN PANEL DETAIL	2
ALL TRAFFIC MUST EXIT	SEE SIGN PANEL DETAIL	1
→	M6-2 21 X 15 BLACK ON ORANGE	3
←	M6-2 21 X 15 BLACK ON ORANGE	3
ROAD CLOSED AHEAD	W20-3 (O)- 48	5
ROAD CLOSED 500 FT	W20-3 (O)- 48	3



CONFLICTING SIGNS TO BE COVERED OR SIGN PLATES ADDED AS NOTED.

ABOVE SIGNS NEEDED NOT SHOWN IN DETOUR SIGN INVENTORY

NOTES:

1) ALL SIGN LOCATIONS SHALL BE MARKED WITH LATH AND RIBBON BY THE DISTRICT TRAFFIC CONTROL SUPERVISOR.
2) 21 DAY NOTICE REQUIRED PRIOR TO CLOSING THE ROAD.
3) ALL SIGNS SHALL BE POST MOUNTED.
4) CONFLICTING OR COVERING SIGNS SHALL NOT DAMAGE THE FACE OF THE SIGN AND SIGNS SHALL BE COMPLETELY COVERED. COVERING METHODS SHALL BE AT THE DISCRETION OF THE ENGINEER.

3 MESSAGE BOARDS SHALL BE USED TO ADVANCE WARN OF THE CLOSURE. LOCATION SHALL BE DISCUSSED AT THE PRECONSTRUCTION MEETING. THESE MESSAGE BOARDS SHALL BE USED FOR ONE WEEK LEADING UP TO THE DAY OF THE CLOSURE TO ADVANCE WARN THE TRAVELLING PUBLIC.

(*) PEORIA / TAZEWELL

FILE NAME = S:\Projects\2015 JOBS\15IL004-00 OEI PTB 168-17 D4 Cedar St Bridge\CADD\CADD Sheets\D468A93-sht-Staging-Bridge_Closure_Detour.dgn
MODEL = Default
PLOT DRIVER = 15IL004 PDF.plotcfg

USER NAME = rgoertz	DESIGNED - IDOT D-4	REVISED -	
D468A93-sht-Staging-Bridge_Closure_Detour.dgn	DRAWN - IDOT D-4	REVISED -	
PLOT SCALE = 20000.0000 ' / in.	CHECKED - IDOT D-4	REVISED -	
PLOT DATE = 10/05/2015	DATE - 10/02/2015	REVISED -	

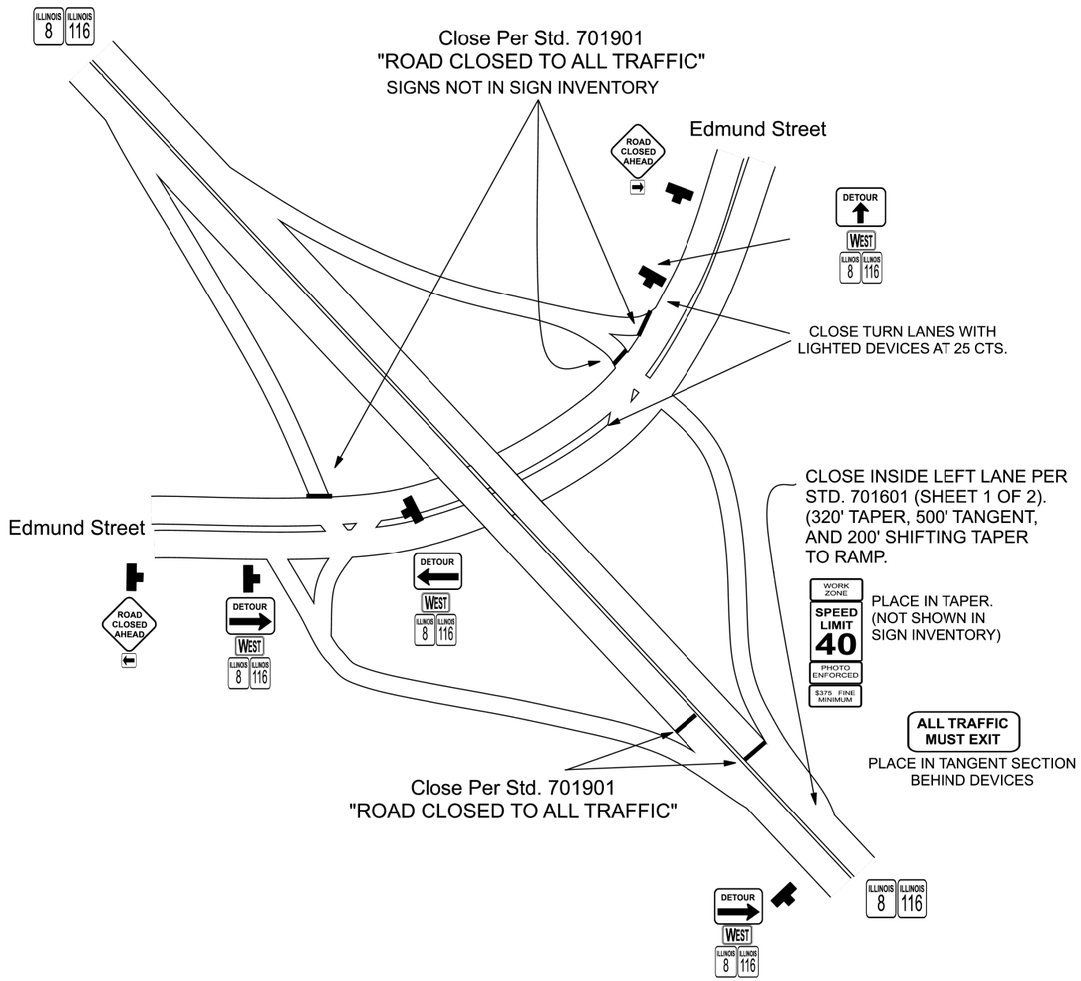
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

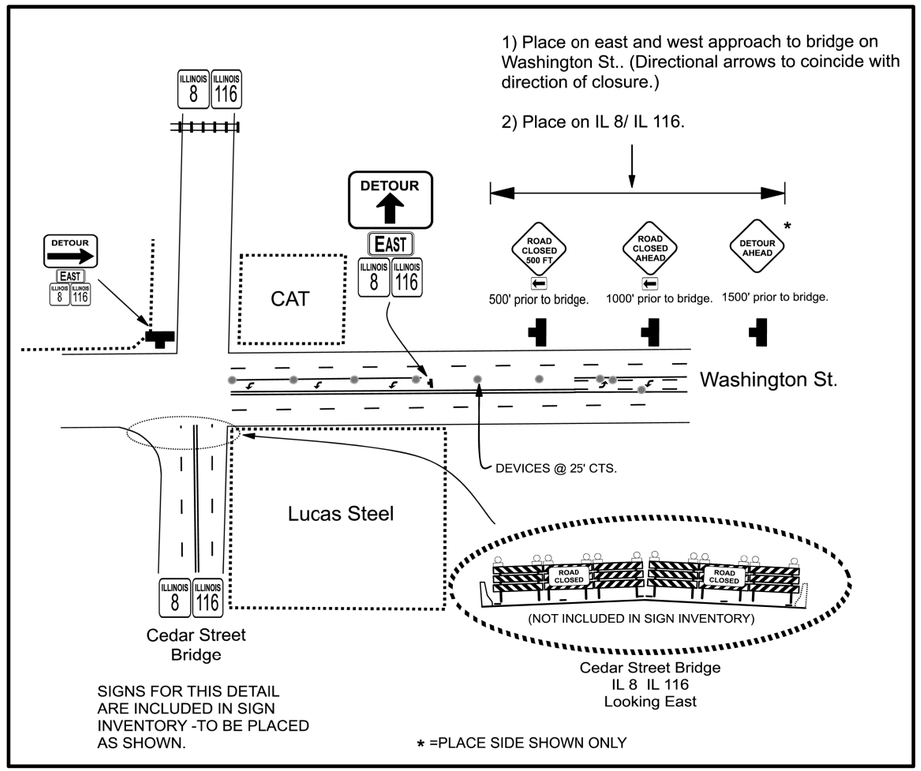
MAINTENANCE OF TRAFFIC
STATE ROUTE DETOUR – BRIDGE CLOSURE STAGE

SCALE: | SHEET NO. OF SHEETS | STA. | TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
669	(103B)I-7	(*)	180	53
		CONTRACT NO. 68A93		
	ILLINOIS FED. AID PROJECT			

EDMUND STREET DETOUR DETAILS





(•) PEORIA / TAZEWELL

USER NAME = rgoertz	DESIGNED - IDOT D-4	REVISED -	
D468A93-sht-Staging-Bridge_Closure_Detour.dgn	DRAWN - IDOT D-4	REVISED -	
PLOT SCALE = 20000.0000 ' / in.	CHECKED - IDOT D-4	REVISED -	
PLOT DATE = 10/05/2015	DATE - 10/02/2015	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

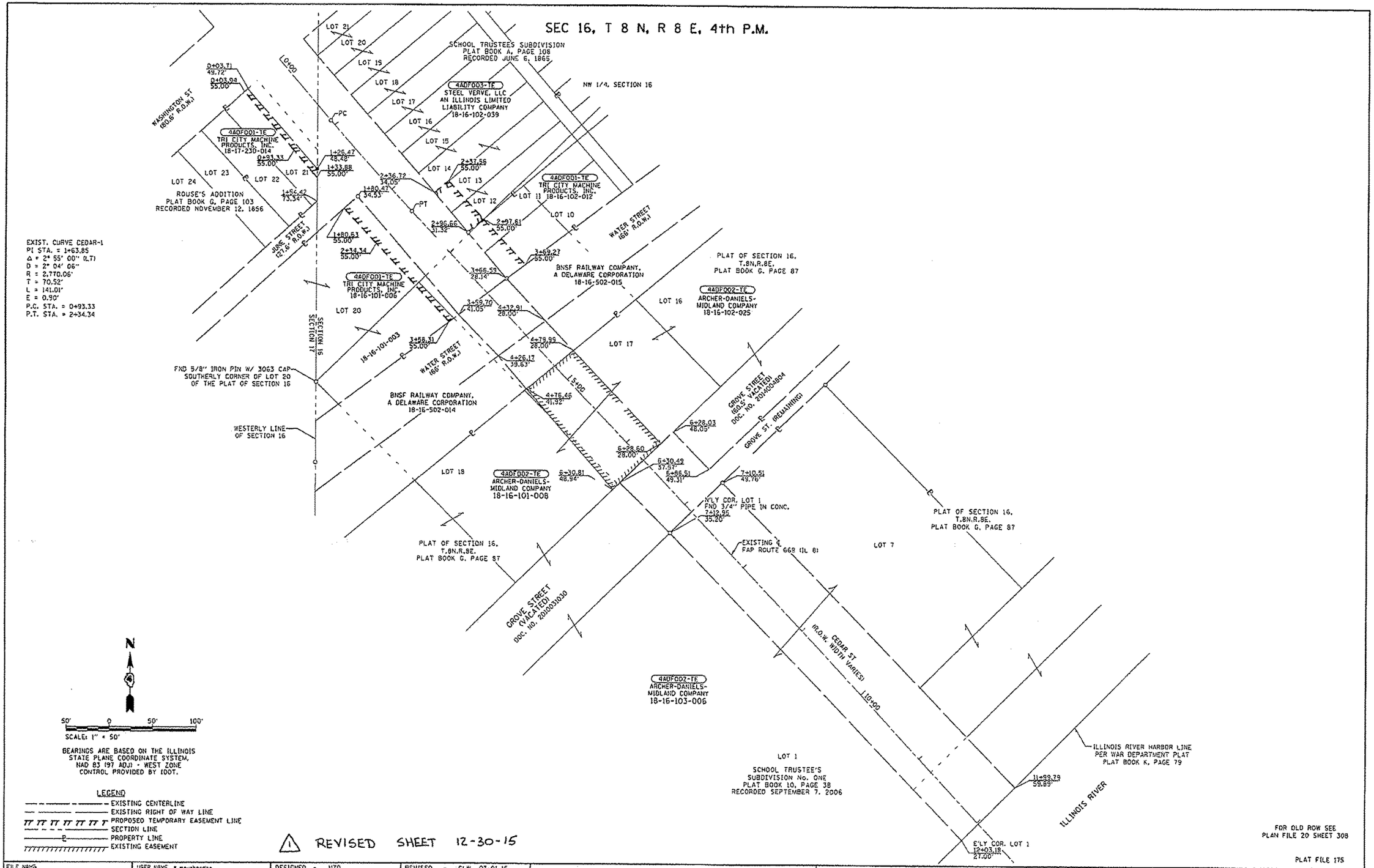
MAINTENANCE OF TRAFFIC
STATE ROUTE DETOUR – BRIDGE CLOSURE STAGE

SCALE: | SHEET NO. OF SHEETS | STA. | TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
669	(103B)I-7	(•)	180	54
		CONTRACT NO. 68A93		
	ILLINOIS FED. AID PROJECT			

FILE NAME = S:\Projects\2015 JOBS\15IL004-00 QEI PTB 168-17 D4 Cedar St Bridge\CADD\CADD Sheets\D468A93-sht-Staging-Bridge_Closure_Detour.dgn
MODEL = Default
PLOT DRIVER = 15IL004 PDF.pltcfg

SEC 16, T 8 N, R 8 E, 4th P.M.



EXIST. CURVE CEDAR-1
PI STA. = 1+63.85
Δ = 2° 55' 00" (LT)
D = 2° 04' 06"
R = 2,770.06'
T = 70.52'
L = 141.01'
E = 0.90'
P.C. STA. = 0+93.33
P.T. STA. = 2+34.34

N

50' 0 50' 100'

SCALE: 1" = 50'

BEARINGS ARE BASED ON THE ILLINOIS STATE PLANE COORDINATE SYSTEM, NAD 83 (97 ADJ) - WEST ZONE CONTROL PROVIDED BY IDOT.

LEGEND

- EXISTING CENTERLINE
- EXISTING RIGHT OF WAY LINE
- PROPOSED TEMPORARY EASEMENT LINE
- SECTION LINE
- PROPERTY LINE
- EXISTING EASEMENT

⚠1 REVISED SHEET 12-30-15

FILE NAME = #FILEABBREV#	USER NAME = maushardse	DESIGNED - NTO	REVISED - GLW 07-01-15
		DRAWN - 03-18-15	REVISED -
	PLOT SCALE = 182.9963 ' / in.	CHECKED - GLW	REVISED -
	PLOT DATE = 12/29/2015	DATE - 03-18-15	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

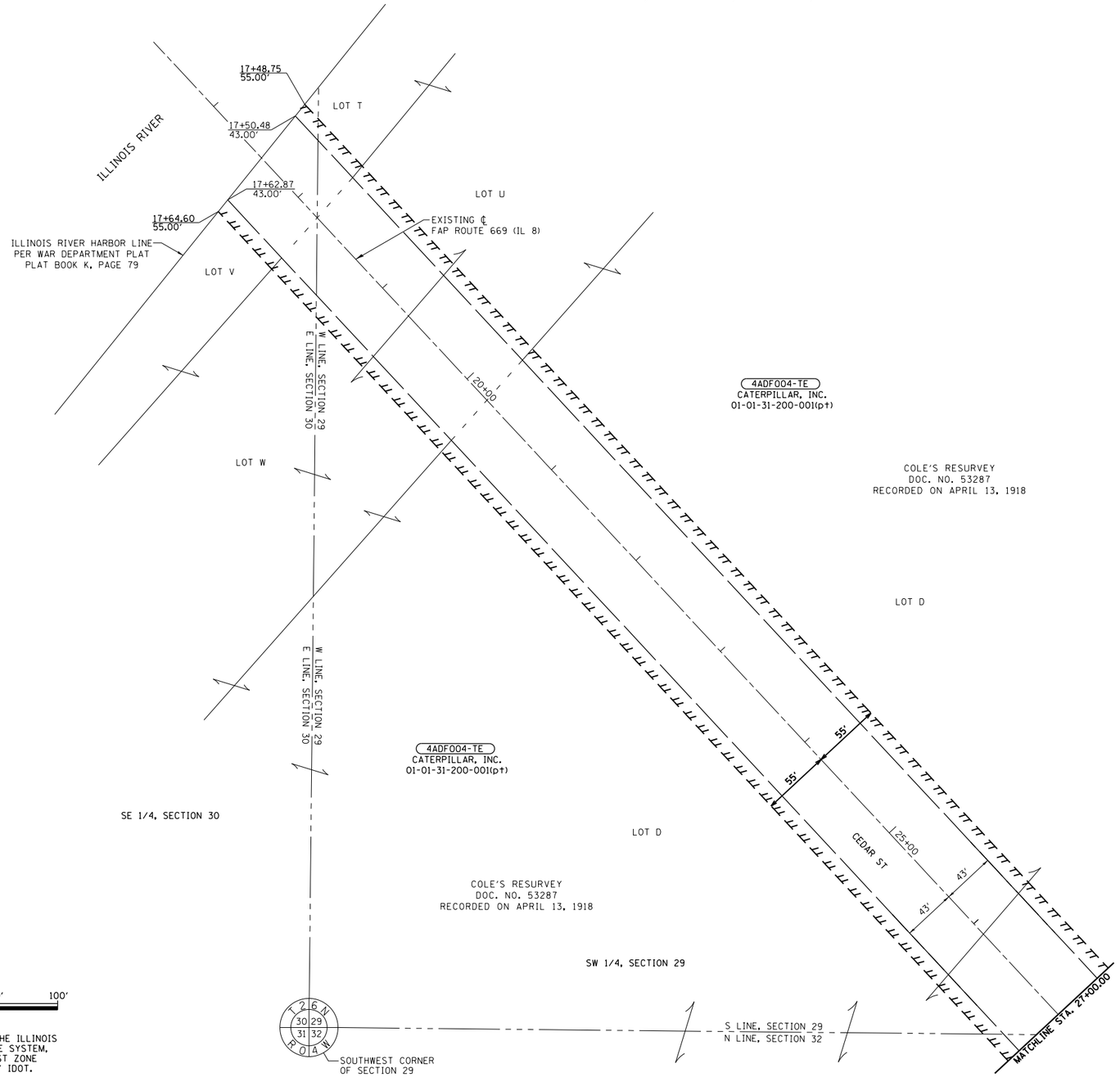
RIGHT OF WAY PLANS

PROJECT	JOB NO. R-94-003-14
SCALE: 1" = 50'	SHEET NO. 01 OF 03 SHEETS	STA. 0+00.00 TO STA. 12+00.00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
669	103B-1-7	PEORIA	180	55
CATALOG NO. 034778-00		CONTRACT NO. 68493		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

20 56

SEC 29 & 30, T 26 N, R 4 W, 3rd P.M.



N

50' 0 50' 100'

SCALE: 1" = 50'

BEARINGS ARE BASED ON THE ILLINOIS STATE PLANE COORDINATE SYSTEM, NAD 83 (97 ADJ) - WEST ZONE CONTROL PROVIDED BY IDOT.

LEGEND

- EXISTING CENTERLINE
- EXISTING RIGHT OF WAY LINE
- PROPOSED TEMPORARY EASEMENT LINE
- SECTION LINE
- PROPERTY LINE

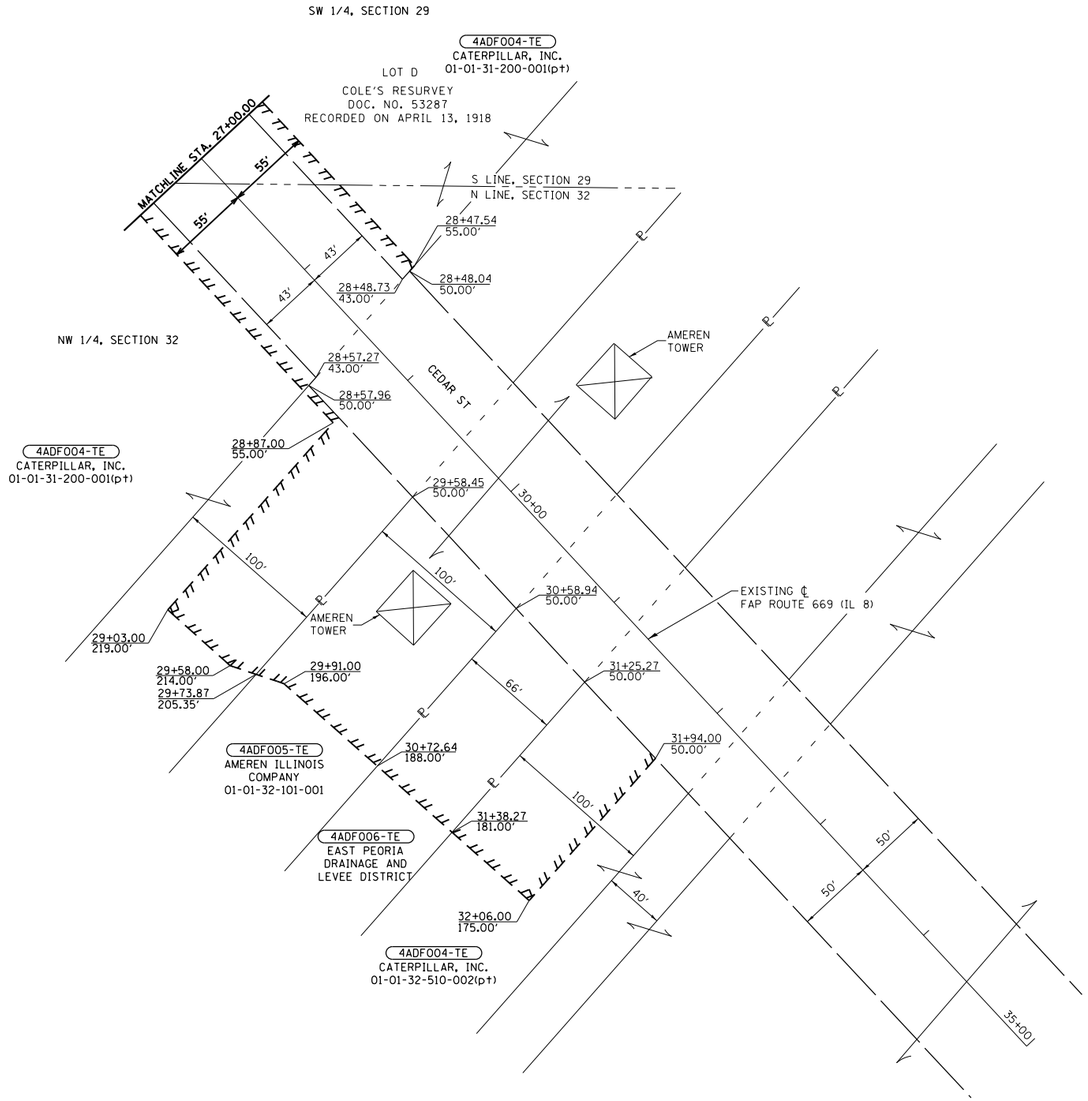
FOR OLD ROW SEE PLANFILE 20 SHEET 30C

PLAT FILE 175

FILE NAME: $FILEABBREV$	USER NAME = rgoertz	DESIGNED - NTD	REVISED - GLW 07-01-15	**STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION**	**RIGHT OF WAY PLANS**		F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
		DRAWN - 03-18-15	REVISED -				669	103B-I-7	TAZEWELL	180	56
	PLOT SCALE = 100.0000 ' / in.	CHECKED - GLW	REVISED -		PROJECT	JOB NO. R-94-003-14	CATALOG NO. 034778-00		CONTRACT NO. 68A93		
	PLOT DATE = 10/05/2015	DATE - 03-18-15	REVISED -		SCALE: 1" = 50'	SHEET NO. 02 OF 03 SHEETS	STA. 17+00.00 TO STA. 27+00.00	FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT	

20 56

SEC 29 & 32, T 26 N, R 4 W, 3rd P.M.



BEARINGS ARE BASED ON THE ILLINOIS STATE PLANE COORDINATE SYSTEM, NAD 83 (97 ADJ) - WEST ZONE CONTROL PROVIDED BY IDOT.

LEGEND

- EXISTING CENTERLINE
- EXISTING RIGHT OF WAY LINE
- PROPOSED TEMPORARY EASEMENT LINE
- SECTION LINE
- PROPERTY LINE

FOR OLD ROW SEE PLANFILE 20 SHEET 30C

PLAT FILE 175

FILE NAME: $FILEABBREV$	USER NAME = rgoertz	DESIGNED - NTD	REVISED - GLW 07-01-15	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	RIGHT OF WAY PLANS			
		DRAWN - 03-18-15	REVISED -			PROJECT	JOB NO. R-94-003-14	
	PLOT SCALE = 100.0000 ' / in.	CHECKED - GLW	REVISED -		SCALE: 1" = 50'	SHEET NO. 03 OF 03 SHEETS	STA. 27+00.00 TO STA. 35+00.00	
	PLOT DATE = 10/05/2015	DATE - 03-18-15	REVISED -					

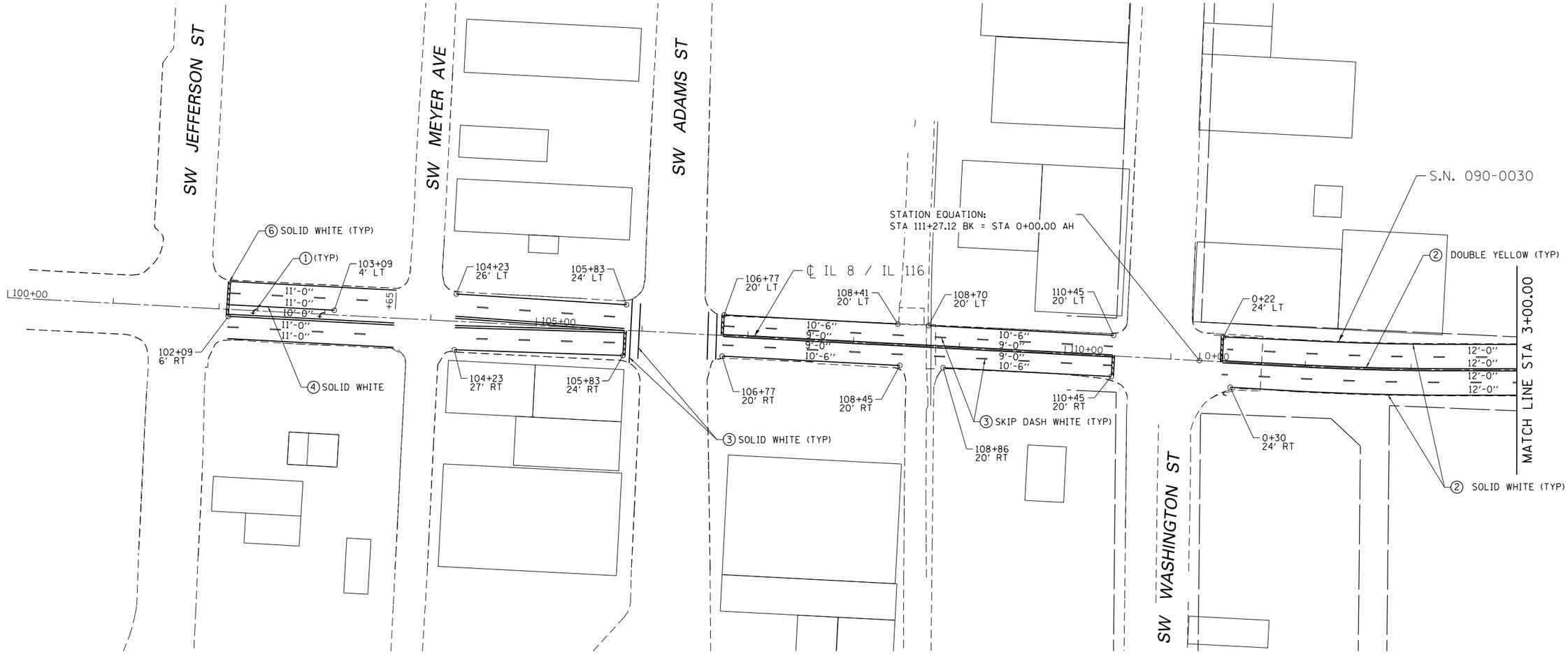
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
669	103B-I-7	TAZEWELL	180	57
CATALOG NO. 034778-00		CONTRACT NO. 68A93		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

LEGEND

1. PAINT PAVEMENT MARKING - LETTERS AND SYMBOLS
2. PAINT PAVEMENT MARKING - LINE 4''
3. PAINT PAVEMENT MARKING - LINE 6''
4. PAINT PAVEMENT MARKING - LINE 8''
5. PAINT PAVEMENT MARKING - LINE 12''
6. PAINT PAVEMENT MARKING - LINE 24''
7. RAISED REFLECTIVE PAVEMENT MARKER (STD 781001)

N

0 50 100
SCALE IN FEET



NOTE:

THE CONTRACTOR SHALL MATCH EXISTING PAVEMENT MARKINGS BETWEEN SW JEFFERSON STREET AND SW ADAMS STREET. PAVEMENT MARKING LOCATIONS NOTED IN THIS AREA ARE FOR QUANTITY PURPOSES ONLY.

(•) PEORIA / TAZEWELL

QUIGG ENGINEERING INC

USER NAME = rgoertz	DESIGNED - RG	REVISED -
D468A93-sht-Pmk_01.dgn	DRAWN - RG	REVISED -
PLOT SCALE = 100.0000 '/ in.	CHECKED - MCV	REVISED -
PLOT DATE = 10/05/2015	DATE - 10/02/2015	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PAVEMENT MARKING AND SIGNING PLAN

SCALE: 1'' = 50' | SHEET NO. OF SHEETS | STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
669	(103B)I-7	(•)	180	58

CONTRACT NO. 68A93

ILLINOIS FED. AID PROJECT

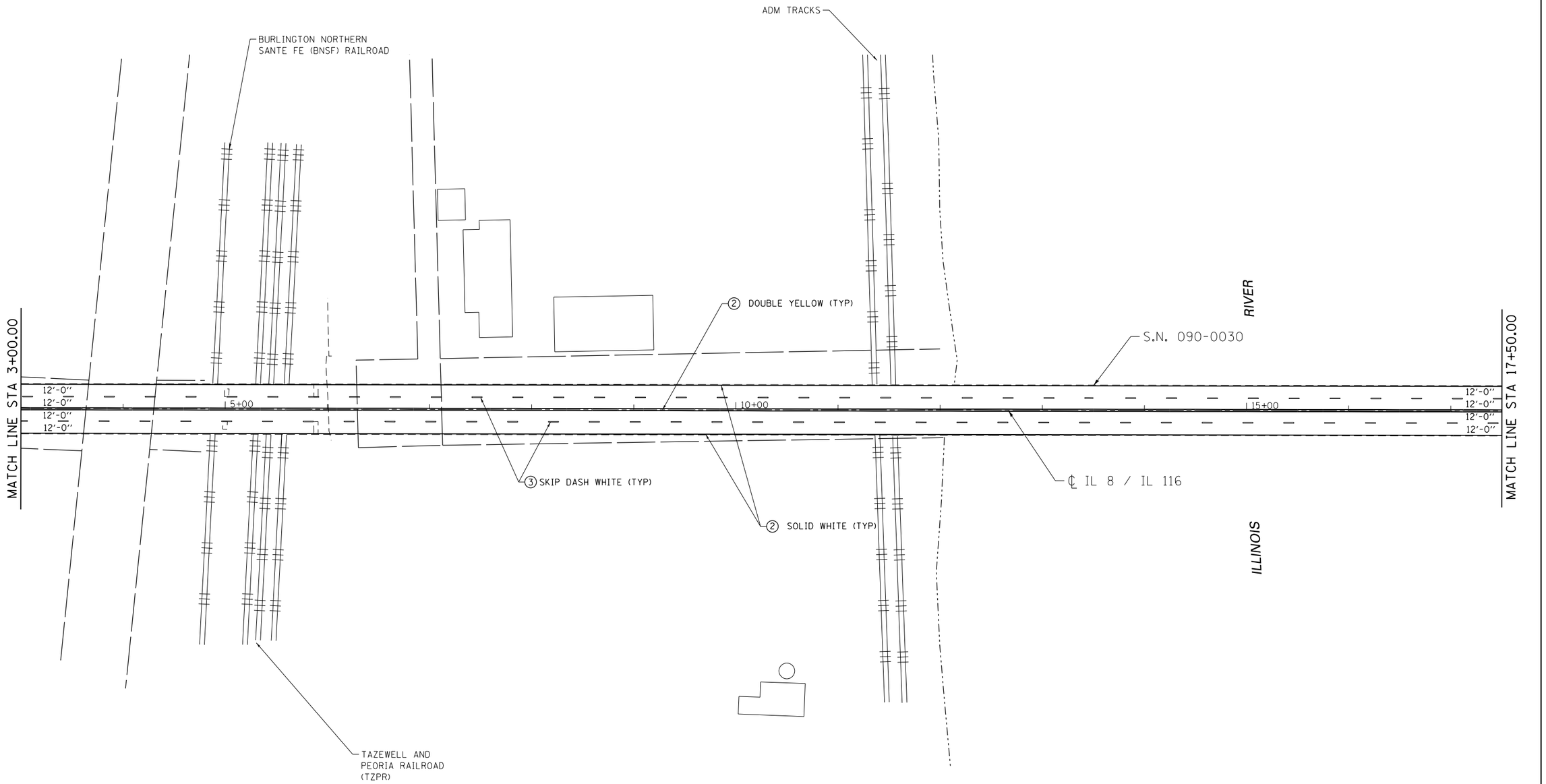
FILE NAME = S:\Projects\2015 JOBS\15IL004-00 QEI PTB 168-17 D4 Cedar St Bridge\CADD\CADD Sheets\D468A93-sht-Pmk_01.dgn
MODEL = Default
PLOT DRIVER = 15IL004 PDF.pltcfg

LEGEND

1. PAINT PAVEMENT MARKING - LETTERS AND SYMBOLS
2. PAINT PAVEMENT MARKING - LINE 4''
3. PAINT PAVEMENT MARKING - LINE 6''
4. PAINT PAVEMENT MARKING - LINE 8''
5. PAINT PAVEMENT MARKING - LINE 12''
6. PAINT PAVEMENT MARKING - LINE 24''
7. RAISED REFLECTIVE PAVEMENT MARKER (STD 781001)

N

0 50 100
SCALE IN FEET



(•) PEORIA / TAZEWELL

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PLOT DRIVER = 15IL004 PDF.pltcfg

QUIGG ENGINEERING INC

USER NAME = rgoertz	DESIGNED - RG	REVISED -
D468A93-sht-Pmk_02.dgn	DRAWN - RG	REVISED -
PLOT SCALE = 100.0000 '/ in.	CHECKED - MCV	REVISED -
PLOT DATE = 10/05/2015	DATE - 10/02/2015	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

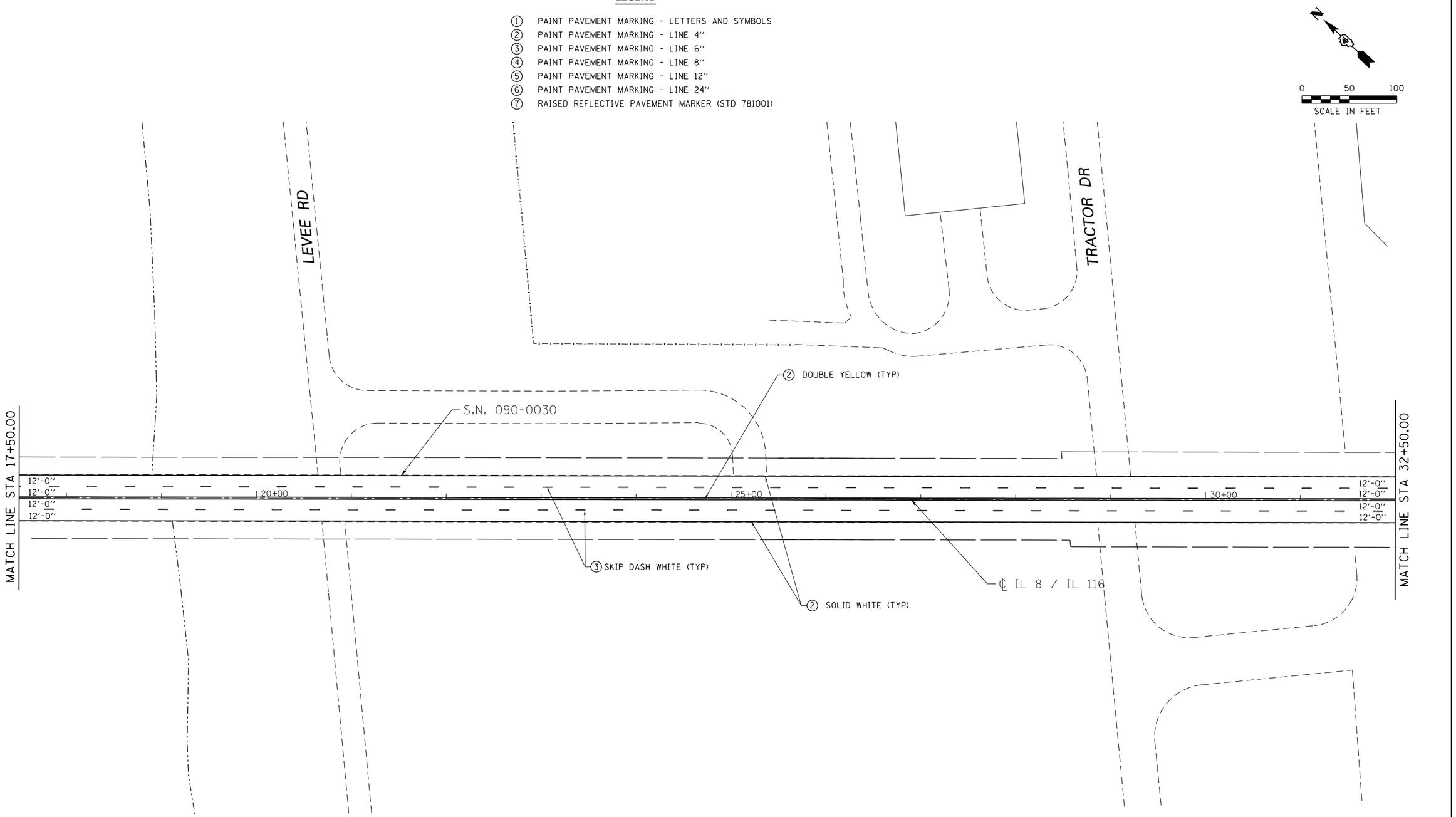
PAVEMENT MARKING AND SIGNING PLAN

SCALE: 1'' = 50' | SHEET NO. OF SHEETS | STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
669	(103B)I-7	(•)	180	59
		CONTRACT NO. 68A93		
	ILLINOIS FED. AID PROJECT			

LEGEND

1. PAINT PAVEMENT MARKING - LETTERS AND SYMBOLS
2. PAINT PAVEMENT MARKING - LINE 4"
3. PAINT PAVEMENT MARKING - LINE 6"
4. PAINT PAVEMENT MARKING - LINE 8"
5. PAINT PAVEMENT MARKING - LINE 12"
6. PAINT PAVEMENT MARKING - LINE 24"
7. RAISED REFLECTIVE PAVEMENT MARKER (STD 781001)



(*) PEORIA / TAZEWELL

FILE NAME = S:\Projects\2015 JOBS\15IL004-00 QEI PTB 168-17 D4 Cedar St Bridge\CADD\CADD Sheets\D468A93-sht-Pmk_03.dgn
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QUIGG ENGINEERING INC

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D468A93-sht-Pmk_03.dgn	DRAWN - RG	REVISED -	
PLOT SCALE = 100.0000 ' / in.	CHECKED - MCV	REVISED -	
PLOT DATE = 10/05/2015	DATE - 10/02/2015	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PAVEMENT MARKING AND SIGNING PLAN

SCALE: 1" = 50' | SHEET NO. OF SHEETS | STA. TO STA.

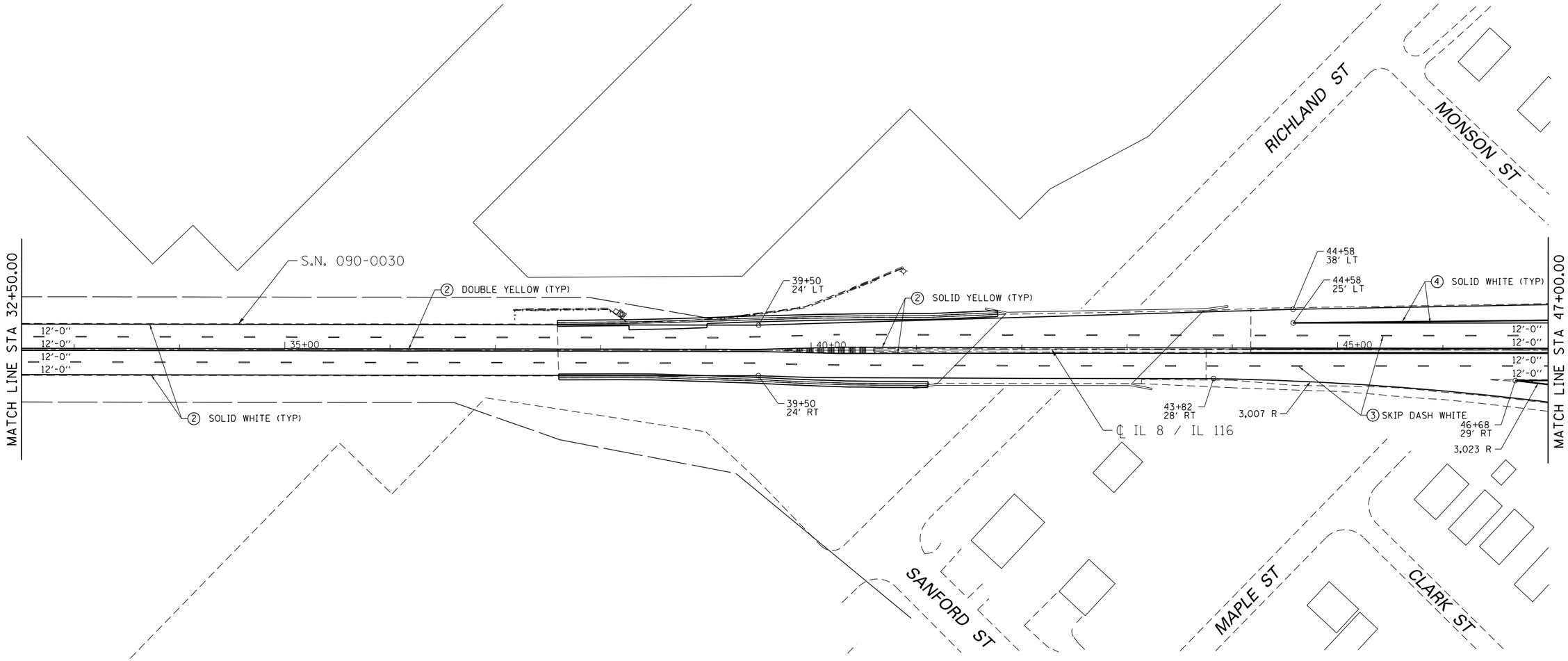
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
669	(103B)I-7	(*)	180	60
		CONTRACT NO. 68A93		
	ILLINOIS FED. AID PROJECT			

LEGEND

1. PAINT PAVEMENT MARKING - LETTERS AND SYMBOLS
2. PAINT PAVEMENT MARKING - LINE 4''
3. PAINT PAVEMENT MARKING - LINE 6''
4. PAINT PAVEMENT MARKING - LINE 8''
5. PAINT PAVEMENT MARKING - LINE 12''
6. PAINT PAVEMENT MARKING - LINE 24''
7. RAISED REFLECTIVE PAVEMENT MARKER (STD 781001)

N

0 50 100
SCALE IN FEET



(•) PEORIA / TAZEWELL

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PLOT DATE = 10/05/2015	DATE - 10/02/2015	REVISED -	

QUIGG ENGINEERING INC

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PAVEMENT MARKING AND SIGNING PLAN

SCALE: 1'' = 50' | SHEET NO. OF SHEETS | STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
669	(103B)I-7	(•)	180	61
		CONTRACT NO. 68A93		
	ILLINOIS FED. AID PROJECT			

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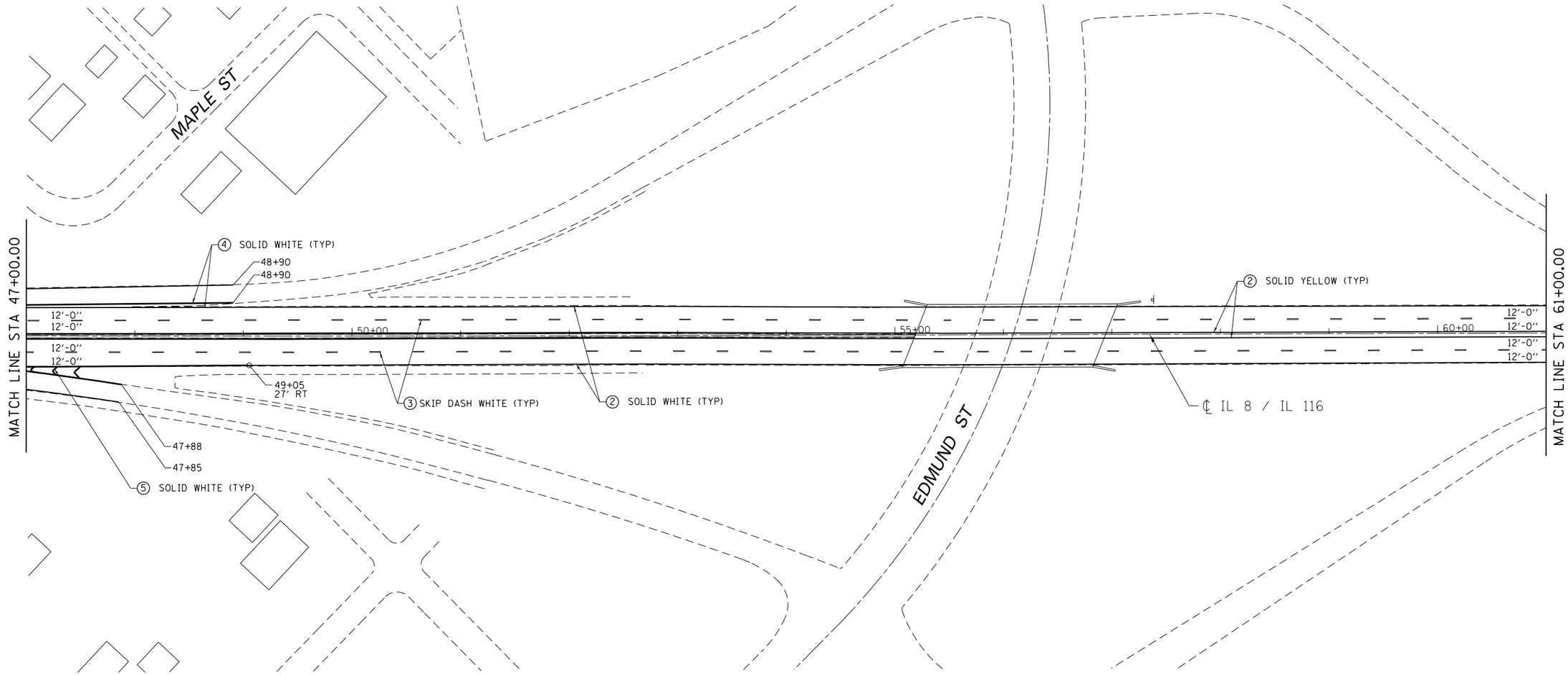
LEGEND

1. PAINT PAVEMENT MARKING - LETTERS AND SYMBOLS
2. PAINT PAVEMENT MARKING - LINE 4"
3. PAINT PAVEMENT MARKING - LINE 6"
4. PAINT PAVEMENT MARKING - LINE 8"
5. PAINT PAVEMENT MARKING - LINE 12"
6. PAINT PAVEMENT MARKING - LINE 24"
7. RAISED REFLECTIVE PAVEMENT MARKER (STD 781001)

N

0 50 100
SCALE IN FEET



(*) PEORIA / TAZEWELL

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QUIGG ENGINEERING INC

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PLOT DATE = 10/05/2015	DATE - 10/02/2015	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PAVEMENT MARKING AND SIGNING PLAN

SCALE: 1" = 50' | SHEET NO. OF SHEETS | STA. | TO STA.

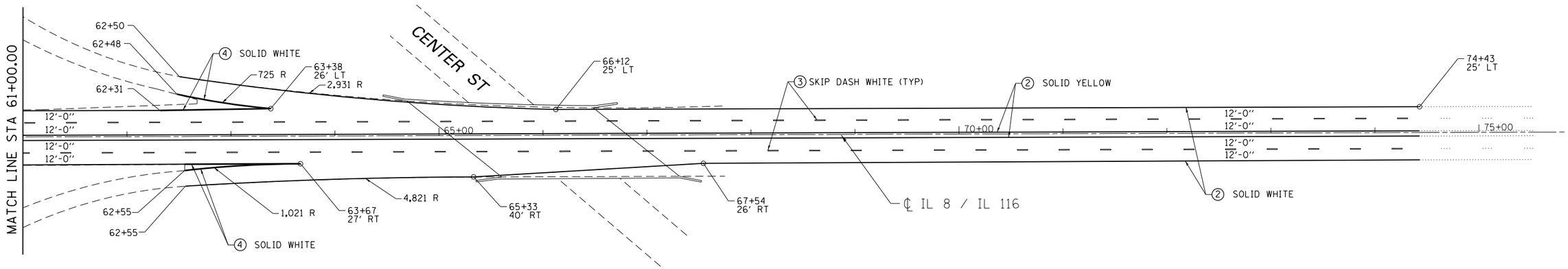
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
669	(103B)I-7	(*)	180	62
		CONTRACT NO. 68A93		
	ILLINOIS FED. AID PROJECT			

LEGEND

1. PAINT PAVEMENT MARKING - LETTERS AND SYMBOLS
2. PAINT PAVEMENT MARKING - LINE 4"
3. PAINT PAVEMENT MARKING - LINE 6"
4. PAINT PAVEMENT MARKING - LINE 8"
5. PAINT PAVEMENT MARKING - LINE 12"
6. PAINT PAVEMENT MARKING - LINE 24"
7. RAISED REFLECTIVE PAVEMENT MARKER (STD 781001)

N

0 50 100
SCALE IN FEET



(•) PEORIA / TAZEWELL

QUIGG ENGINEERING INC	USER NAME = rgoertz	DESIGNED - RG	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	PAVEMENT MARKING AND SIGNING PLAN
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	PLOT SCALE = 100.0000 ' / in.	CHECKED - MCV	REVISED -		
	PLOT DATE = 10/05/2015	DATE - 10/02/2015	REVISED -		SCALE: 1" = 50' SHEET NO. OF SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
669	(103B)I-7	(•)	180	63
		CONTRACT NO. 68A93		
	ILLINOIS FED. AID PROJECT			

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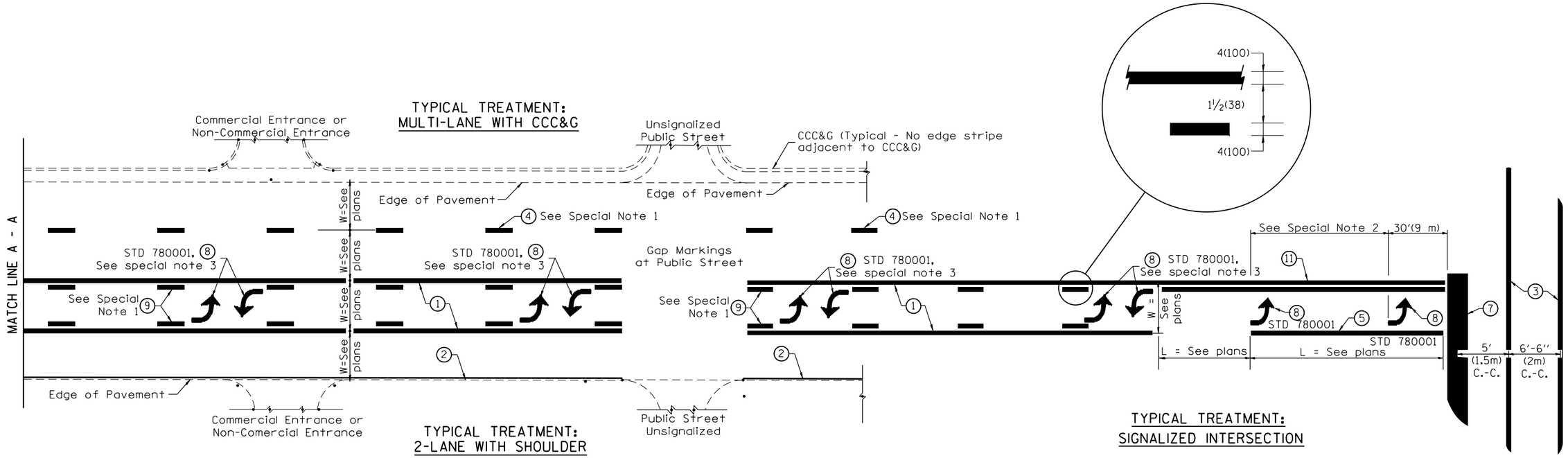


FLUSH PAVED MEDIAN: TWO-WAY LEFT TURN LANE WITH ONE-WAY LEFT TURN LANE AT SIGNALIZED INTERSECTION

TYPICAL PAVEMENT MARKING LEGEND

(Note: This is a District Standard Legend. Some elements may not apply to specific project.)

1. 4(100) Solid (Yellow)
2. 4(100) Solid (White)
3. 2-6(150) Crosswalk @ 6'-6" (2m)min C.-C. (White)
   2-8(200) Crosswalk @ 6'-6" (2m)min C.-C. (White) (When traffic signals are present.)
4. 6(150) Skip-Dash (White) — 10' (3.05m) / 30' (9.14m) / 10' (3.05m) (See Special Note 1)
5. 8(200) Solid (White)
6. 12(300) Diagonal (White) (Item 6 is shown on Std. 780001)
7. 24(600) Stop Bar (White)
8. Letters & Arrows — 33' (10m) (See Std. 780001 and Special Notes 2 & 3)
9. 4(100) Skip-Dash (Yellow) — 10' (3.05m) / 30' (9.14m) / 10' (3.05m) (See Special Note 1)
10. 12(300) Diagonal (Yellow) (See Table A) — 45°
11. 4(100) Double Solid (Yellow) — 11(280) C.-C. — See Table A

SPECIAL NOTES

1. Skip-Dash markings will be centered between both ends of city blocks and shall be placed in alignment transversly across the pavement.
2. The following shall apply to arrows located in one-way left turn lanes:
   A. A minimum of two (2) arrows is required.
   B. The maximum spacing between arrows is 80' (24 m).
   C. Arrows shall be evenly spaced if three (3) or more are required.
3. The following shall apply to arrow pairs located in two-way left turn lanes:
   A. A minimum of two (2) arrow pairs is required.
   B. The maximum spacing between arrow pairs is 200' (61 m).
   C. Arrow pairs shall be evenly spaced if three (3) or more are required.
   D. The spacing between Bi Directional Left Turn Arrows is 33' (10 m).

GENERAL NOTES

1. Refer to State Standard 780001 for additional Pavement Markings including letters & arrows.
2. See Plans for Pavement Markings adjacent to curbed islands and medians, and through lane reductions.

DESIGNER NOTES:
1. Include State Standard 780001 (Typical Pavement Markings)

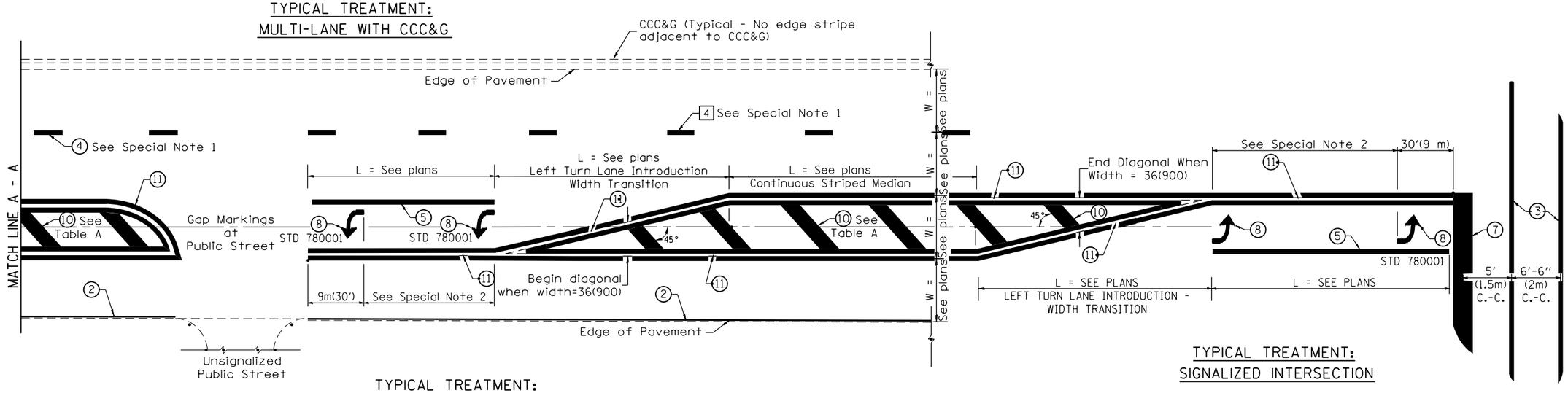
(•) PEORIA / TAZEWELL

01-01-97	RENUM. F-8.03, NEW REVISION BOX	T.P.	10-16-06	REVISED TO 2007 SPEC.	
02-07-97	ADD BI DIRECTIONAL DIMENSION	J.A.			
10-97	CORRECT BI DIRECTIONAL DIMENSION	J.A.			
08-02	ADD CROSSWALK DMNS. WITH T.S.	M.A.			

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TYPICAL PAVEMENT MARKINGS
NOT TO SCALE
SHT. 1 OF 2
CADD STD. 780001-D4

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
669	(103B)I-7	(•)	180	64
		CONTRACT NO. 68A93		
	ILLINOIS FED. AID PROJECT			



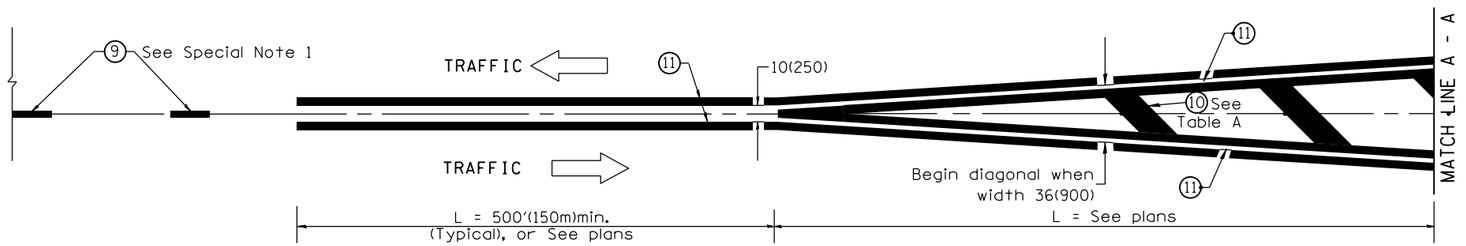
TYPICAL MEDIAN TRANSITIONS

FLUSH PAVED MEDIAN: RESTRICTED LEFT TURN LANE

TABLE A

RECOMMENDED SPACING BETWEEN DIAGONAL LINES

SPEED LIMIT RANGE	CONTINUOUS	INTERSECTION CHANNELIZATION (Includes Width Transitions for Median and Left Turn Lane Introductions)
Less Than 30 mph (50 km/h)	50' (15m)	15' (5m)
30 - 45 mph (50 - 70 km/h)	75' (23m)	20' (6m)
Over 45 mph (70 km/h)	150' (46m)	30' (9m)



MEDIAN INTRODUCTION - WIDTH TRANSITIONS

All dimensions are in inches (millimeters) unless otherwise noted.

(*) PEORIA / TAZEWELL

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TYPICAL PAVEMENT MARKINGS

NOT TO SCALE

SHT. 2 OF 2
CADD STD. 780001-D4

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
669	(103B)I-7	(*)	180	65
		CONTRACT NO. 68A93		
	ILLINOIS FED. AID PROJECT			

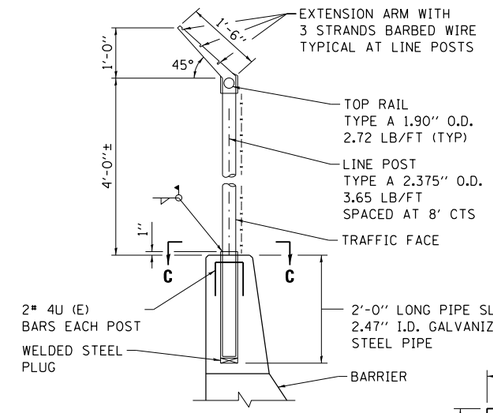
APPROACH PARAPET REPLACEMENT

TYPE A BARRIER

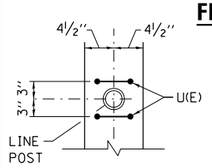
	Beginning Station (Exp. Joint)	Ending Station (Exp. Joint)	Section Length (FT)	Width of Pavement Removal (FT)	Volume of Conc. in Barrier (CY)	Volume of Conc. In Base (CY)	Number of w(E) bars in Base	Number of w(E) bar Lengths in Section	Length of w(E) bars	Number of e1(E) bars in Parapet	Number of e1(E) bar Lengths in Section	Length of e1(E) bars	Number of t(E) bars in Section	Number of d(E) bars in Section	Number of d1(E) bars in Section	Number of U(E) bars in Section	WEIGHT OF EPOXY CTD. REBAR (LB)	PAVEMENT REMOVAL (SQ YD)	CONCRETE BARRIER REMOVAL (FOOT)	TIE BARS 3/4" (EACH)	CONCRETE BARRIER, SINGLE FACE, 34 INCH HEIGHT (FOOT)	CONCRETE BARRIER BASE (SPECIAL) (FOOT)	ACRYLIC COATING (SQ YD)	CHAIN LINK FENCE, ATTACHED TO STRUCTURE, SPECIAL (FOOT)
LT	38+26.00	39+00.00	74.00	7.583	8.2	27.4	16	3	25.89	10	3	26.28	150	75	75	20	4,407	62.3	74.00	51	74.00	74.00	54.84	74.0
	TOTALS		74	7.583	8.2	27.4											4,407	62.3	74.00	51	74.00	74.00	54.84	74.0
	USE																4,407	63	74	51	74	74	55	74

TYPE B BARRIER

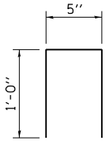
	Beginning Station (Exp. Joint)	Ending Station (Exp. Joint)	Section Length (FT)	Width of Pavement Removal (FT)	Volume of Conc. in Barrier (CY)	Volume of Conc. In Base (CY)	Number of w(E) bars in Base	Number of w(E) bar Lengths in Section	Length of w(E) bars	Number of e1(E) bars in Parapet	Number of e1(E) bar Lengths in Section	Length of e1(E) bars	Number of t(E) bars in Section	Number of d(E) bars in Section	Number of d1(E) bars in Section		WEIGHT OF EPOXY CTD. REBAR (LB)	PAVEMENT REMOVAL (SQ YD)	CONCRETE BARRIER REMOVAL (FOOT)	TIE BARS 3/4" (EACH)	CONCRETE BARRIER, SINGLE FACE, 34 INCH HEIGHT (FOOT)	CONCRETE BARRIER BASE (FOOT)	ACRYLIC COATING (SQ YD)	
LT	37+60.08	38+26.00	65.92	3.583	7.3	20.5	12	3	23.20	10	3	23.59	134	67	67		3,725	26.2	65.92	45	65.92	65.92	61.01	
LT	39+00.00	39+75.00	75.00	3.583	8.3	23.3	12	3	26.22	10	3	26.61	152	76	76		4,222	29.9	75.00	51	75.00	75.00	69.42	
LT	39+75.00	40+50.00	75.00	3.583	8.3	23.3	12	3	26.22	10	3	26.61	152	76	76		4,222	29.9	75.00	51	75.00	75.00	69.42	
LT	40+50.00	41+25.00	75.00	3.583	8.3	23.3	12	3	26.22	10	3	26.61	152	76	76		4,222	29.9	75.00	51	75.00	75.00	69.42	
LT	41+25.00	41+77.21	52.21	3.583	5.8	16.2	12	3	18.63	10	3	19.02	106	53	53		2,974	20.8	52.21	36	52.21	52.21	48.32	
RT	37+60.08	38+35.00	74.92	3.583	8.3	23.3	12	3	26.20	10	3	26.59	152	76	76		4,217	29.8	74.92	51	74.92	74.92	69.34	
RT	38+35.00	39+10.00	75.00	3.583	8.3	23.3	12	3	26.22	10	3	26.61	152	76	76		4,222	29.9	75.00	51	75.00	75.00	69.42	
RT	39+10.00	39+85.00	75.00	3.583	8.3	23.3	12	3	26.22	10	3	26.61	152	76	76		4,222	29.9	75.00	51	75.00	75.00	69.42	
RT	39+85.00	40+60.00	75.00	3.583	8.3	23.3	12	3	26.22	10	3	26.61	152	76	76		4,222	29.9	75.00	51	75.00	75.00	69.42	
RT	40+60.00	41+10.90	50.90	3.583	5.7	15.8	12	3	18.19	10	3	18.58	104	52	52		2,903	20.3	50.90	35	50.90	50.90	47.11	
	TOTALS		693.95		77.1	215.4											39,151	276.5	693.95	473	693.95	693.95	642.29	
	USE																39,151	277	694	473	694	694	643	



FENCE DETAIL



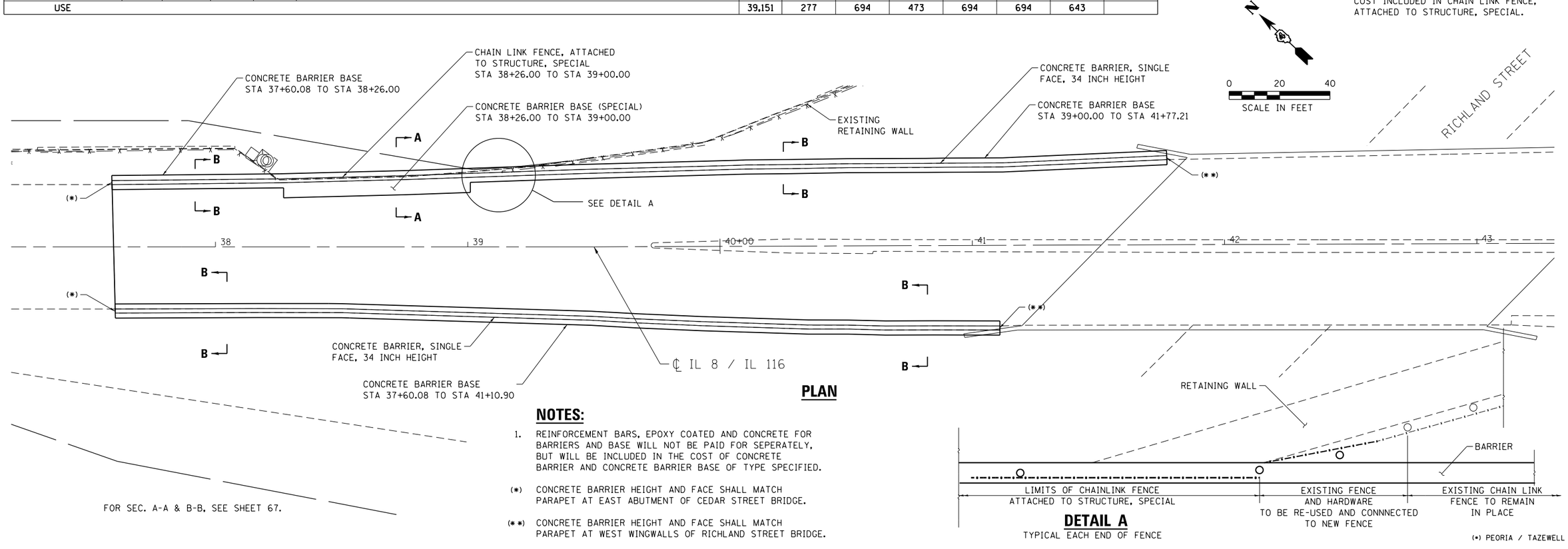
VIEW C–C



BAR U(E)

NOTES:

1. SEE HIGHWAY STD 664001 & SPECIAL PROVISIONS FOR ADDITIONAL FENCE DETAILS.
2. REMOVE AND REPLACE EXISTING CHAIN LINK FENCE ATTACHED TO BARRIER. NO SALVAGE. COST INCLUDED IN CHAIN LINK FENCE, ATTACHED TO STRUCTURE, SPECIAL.



PLAN

FOR SEC. A-A & B-B, SEE SHEET 67.

NOTES:

1. REINFORCEMENT BARS, EPOXY COATED AND CONCRETE FOR BARRIERS AND BASE WILL NOT BE PAID FOR SEPERATELY, BUT WILL BE INCLUDED IN THE COST OF CONCRETE BARRIER AND CONCRETE BARRIER BASE OF TYPE SPECIFIED.

(*) CONCRETE BARRIER HEIGHT AND FACE SHALL MATCH PARAPET AT EAST ABUTMENT OF CEDAR STREET BRIDGE.

(**) CONCRETE BARRIER HEIGHT AND FACE SHALL MATCH PARAPET AT WEST WINGWALLS OF RICHLAND STREET BRIDGE.

DETAIL A

TYPICAL EACH END OF FENCE

(*) PEORIA / TAZEWELL

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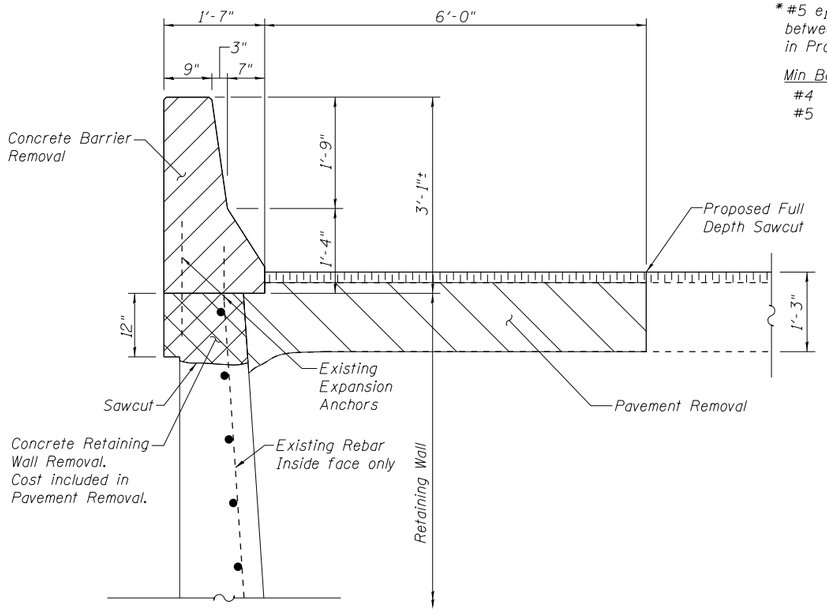
PLOT SCALE = 40.0000 ' / in.	CHECKED - MCV	REVISED -	
PLOT DATE = 10/05/2015	DATE - 10/02/2015	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

EAST APPROACH BARRIER PLAN

SCALE: 1" = 20' | SHEET NO. OF SHEETS | STA. 37+50.00 TO STA. 43+00.00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
669	(103B)I-7	(*)	180	66
		CONTRACT NO. 68A93		
	ILLINOIS FED. AID PROJECT			

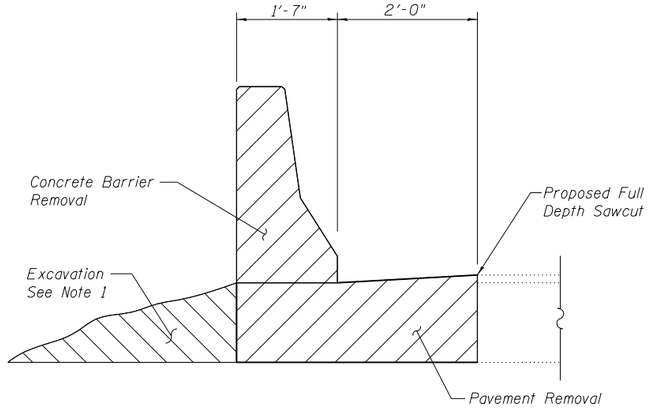


SECTION A-A EXISTING

(Type A Barrier)
Sta 38+26 to Sta 39+00

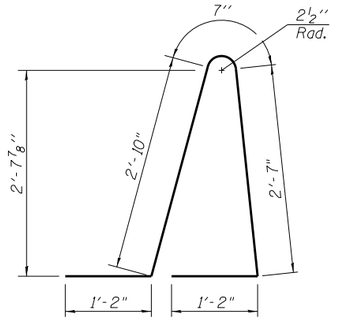
* #5 e_1(E) & #4 w(E) bars shall be continuous between expansion joints. Space as shown in Proposed Sections.

Min Bar Laps
#4 2'-0"
#5 2'-7"

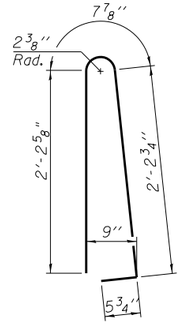


SECTION B-B EXISTING

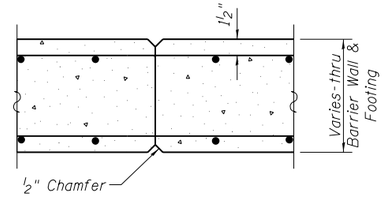
(Type B Barrier)
Sta 37+60.08 to Sta 38+26.00 Lt
Sta 39+00.00 to Sta 41+77.21 Lt
Sta 37+60.08 to Sta 41+10.90 Rt



BAR d_1(E)

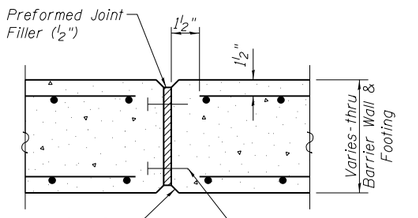


BAR d(E)



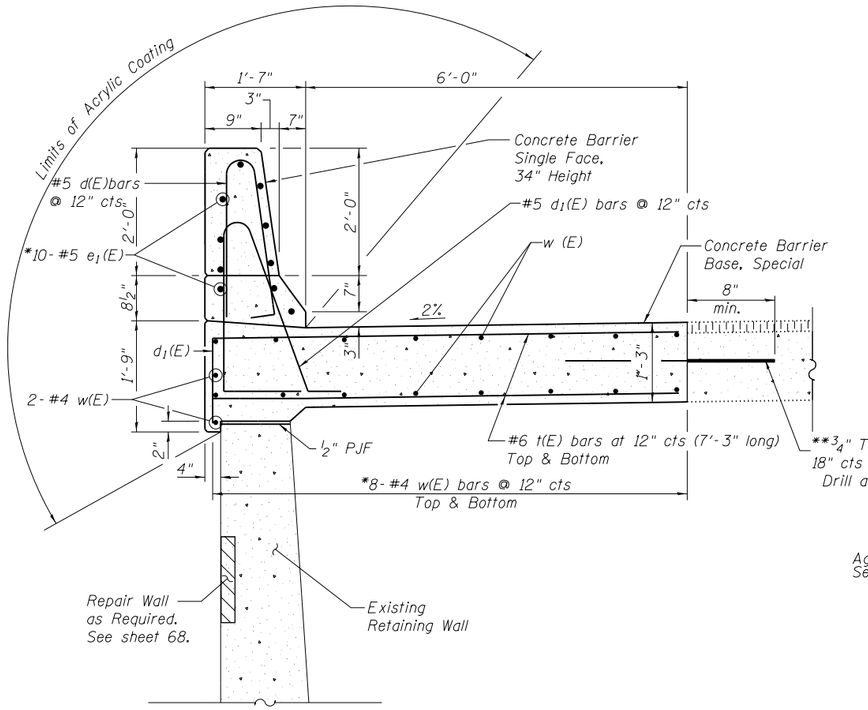
CONSTRUCTION JOINT

Max Spacing = 25'



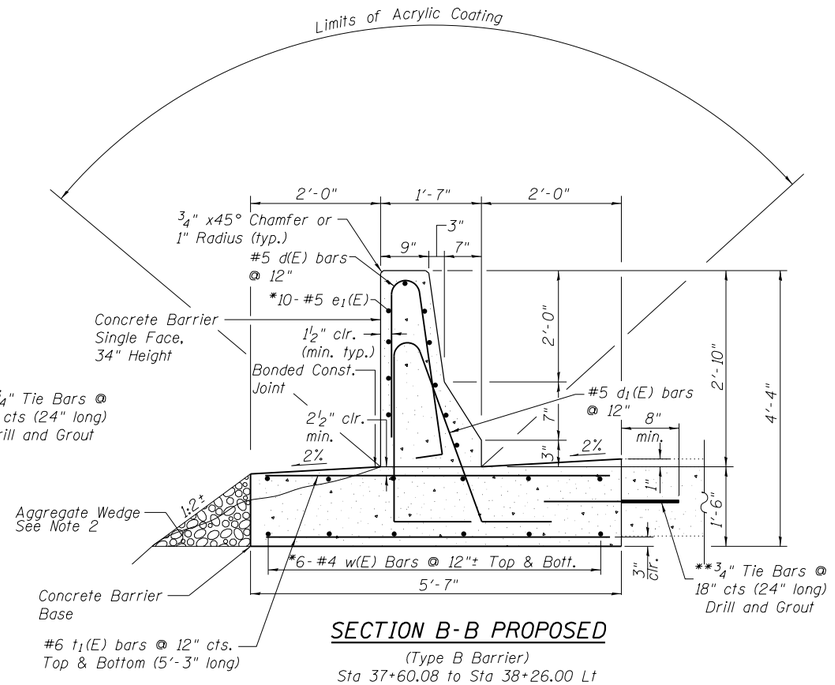
EXPANSION JOINT

Max Spacing = 75'
Min. Spacing = 25'



SECTION A-A PROPOSED

(Type A Barrier)
Sta 38+26 to Sta 39+00



SECTION B-B PROPOSED

(Type B Barrier)
Sta 37+60.08 to Sta 38+26.00 Lt
Sta 39+00.00 to Sta 41+77.21 Lt
Sta 37+60.08 to Sta 41+10.90 Rt

** Locate Tie Bars in center of existing pavement. Work this sheet with sheet 66.

Notes:

1. Excavation for the construction of Conc. Barrier Base shall not be paid for seperately, but shall be included in the cost of CONCRETE BARRIER BASE. Est. Quanity = 78 C.Y.

2. Aggregate wedge shall be CA6 material. Furnishing and placing aggregate wedge shall not be paid for seperately, but shall be included in the cost of CONCRETE BARRIER BASE. Est. Quantity = 58 C.Y.

(•) Peoria / Tazewell

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QUIGG ENGINEERING INC

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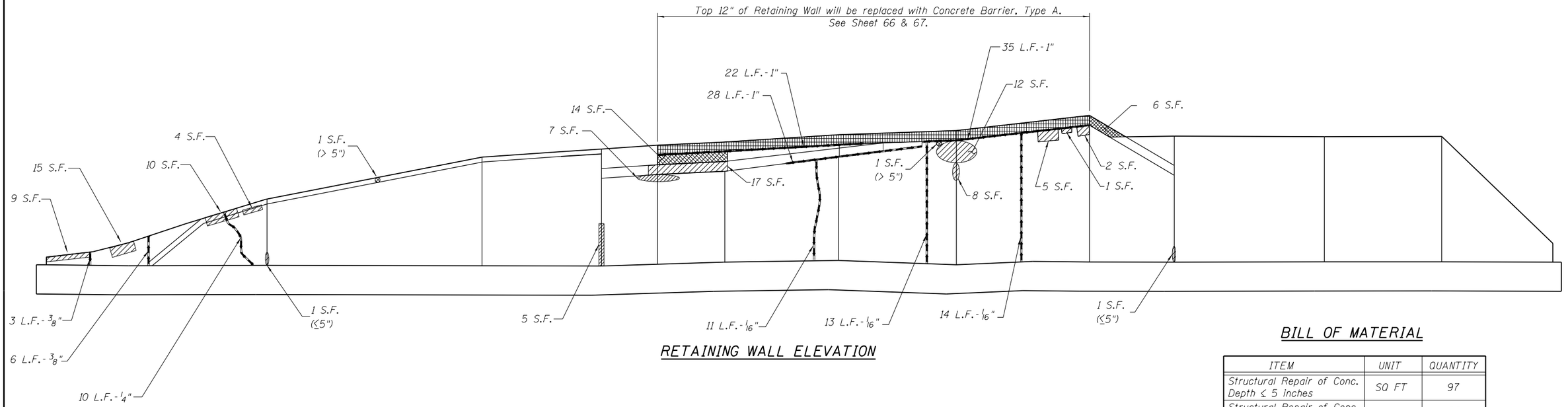
PLOT DATE = 10/05/2015	CHECKED -	REVISED

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

EAST APPROACH BARRIER DETAILS

SHEET NO. OF SHEETS

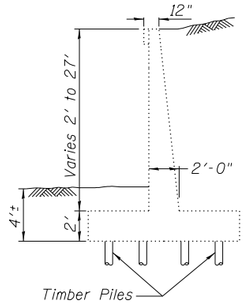
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
669	(103B)I-7	(•)	180	67
		CONTRACT NO. 68A93		
	ILLINOIS FED. AID PROJECT			



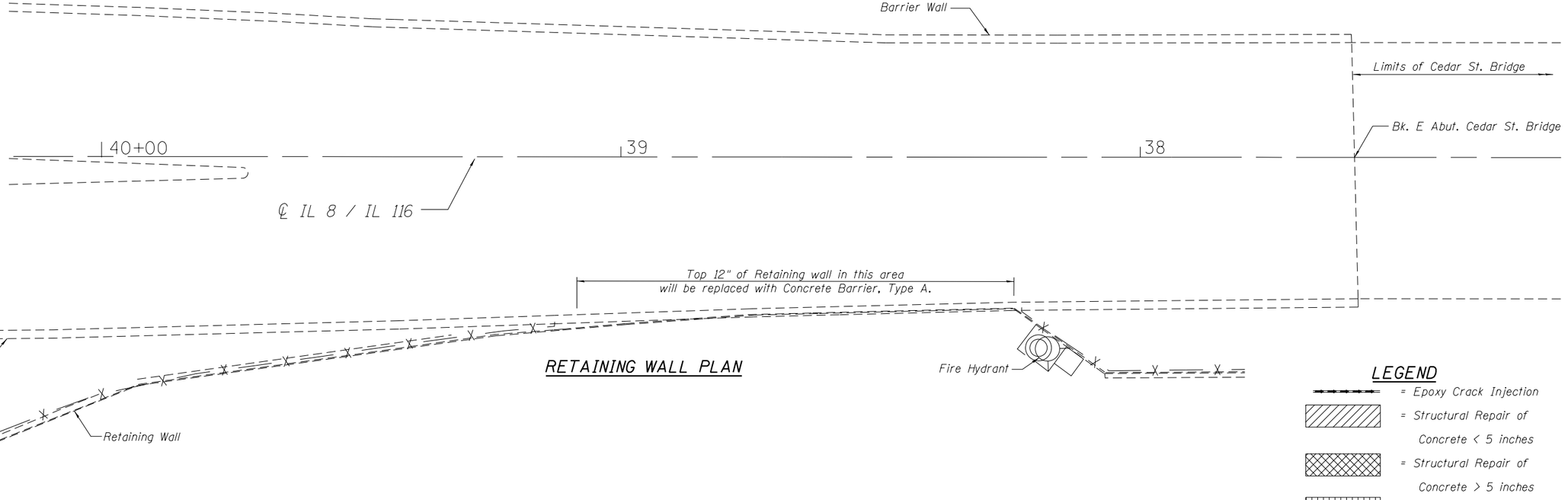
RETAINING WALL ELEVATION

BILL OF MATERIAL

ITEM	UNIT	QUANTITY
Structural Repair of Conc. Depth ≤ 5 inches	SQ FT	97
Structural Repair of Conc. Depth > 5 inches	SQ FT	22
Epoxy Crack Injection	Foot	142



TYPICAL SECTION



RETAINING WALL PLAN

LEGEND

= Epoxy Crack Injection

= Structural Repair of Concrete < 5 inches

= Structural Repair of Concrete > 5 inches

= Concrete Removal

S.F. = Square Feet

L.F. = Linear Feet

(•) Peoria / Tazewell

FILE NAME = S:\Projects\2015 JOBS\15IL004-00 QEI PTB 168-17 D4 Cedar St Bridge\CADD\CADD Sheets\D468A93-sht-Ret Wall.dgn
MODEL = Default
PLOT DRIVER = 15IL004 PDF.pltcfg

QUIGG ENGINEERING INC

USER NAME = rgoertz	DESIGNED -	REVISED
D468A93-sht-Ret Wall.dgn	CHECKED -	REVISED
PLOT SCALE = 0:2.0000 ':' / in.	DRAWN -	REVISED
PLOT DATE = 10/05/2015	CHECKED -	REVISED

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

EAST APPROACH RETAINING WALL REPAIR

SHEET NO. OF SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
669	(103B)I-7	(•)	180	68
		CONTRACT NO. 68A93		
	ILLINOIS FED. AID PROJECT			

TBM #1: Cap bolt between the E&L in Mueller on the fire hydrant at the N.E. quadrant of Washington and MacArthur. Sta. 110+47.04, 31.83' LT, Elev. 486.23
TBM #2: North cap bolt marked with an "X" on the fire hydrant on the west side of Cedar Street Bridge, between Piers 5 and 6. Sta. 3+01.61, 35.51' RT, Elev. 470.22
TBM #3: Top of the N.E. bolt of the steel pier bearing on the east pad of Pier 8. Sta. 4+99.31, 18.29' LT, Elev. 466.71
TBM #4: Top of a RR spike in the south face of the power pole N.E. of Pier 8. Sta. 5+07.63, 425.07' LT, Elev. 467.38

Existing Structure: Structure No. 090-0030. Completed in 1932; Thirty-four spans, 7 simple multibeam, 17 simple riveted dual plate girder spans, 7 simple deck truss and 3 haunched cantilever truss units.
Total length = 3700'-2" back to back of abutments, 49'-2" roadway.

Previous Work:

1986 - Pier rehabilitation and jacking pier installation
Pier bearing adjustment, rehab, or replacement
Repairs to trusses and girders
Replacement of navigation lighting

1987 - Removal and replacement of concrete deck
Repair of floorbeams and stringers
Replacement of parapets and expansion devices
Rehabilitation of west abutment

2001 - Concrete repairs at piers
Structural steel repairs throughout bridge
Replacement of truss hanger pins
Cleaning and painting of entire structure
Replacement of expansion joint seals

LOADING HS20-44 (NEW CONSTRUCTION)

Allow 0#/sq. ft. for future wearing surface.

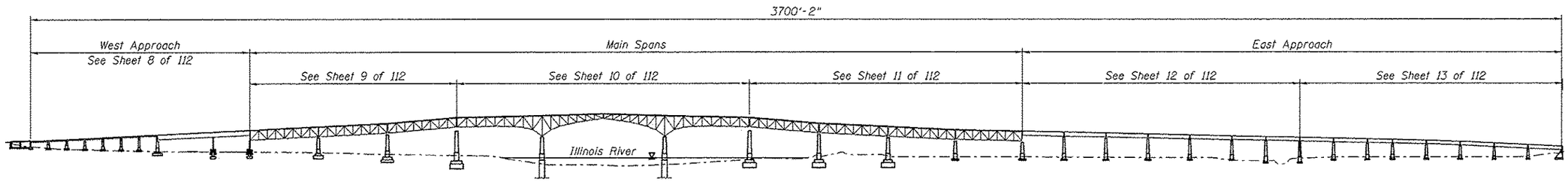
DESIGN SPECIFICATIONS

2002 AASHTO Standard Specifications for Highway Bridges, 17th Edition

DESIGN STRESSES

FIELD UNITS

f'c = 4,000 psi
fy = 60,000 psi (Reinforcement)
fy = 50,000 psi (M270 Grade 50)



ELEVATION - CEDAR STREET BRIDGE

(Looking North)

DESIGN STRESSES (1929 ORIGINAL)

Design Traffic Lanes: Four - 10'-0" Lanes, No shoulders

Design Specifications: A.R.E.A. Specifications for Steel Highway Bridges of 1927 Modified as follows:
Unit Stresses
Axial tension on net section 18,000# per Sq. in.
Axial compression on gross section 18,000-80 L/R

Loading: H20

DESIGN STRESSES (1986 REHABILITATON)

Design Traffic Lanes: Four - 12' Lanes, 7" shoulders
No additional wearing surface allowed.

Design Specifications: 1983 AASHTO and 1984 thru 1986 Interim Specifications

Loading: HS20-44

Reinforced Concrete: f'c = 3,500 psi
Reinforcing Steel: fy = 60,000 psi

Structural Steel: fy = 36,000 psi (M-183)
fy = 50,000 psi (M-223, Grade 50)

STATE OF ILLINOIS
DAVID BOOHER
4775
SPRINGFIELD, ILL.
LICENSED STRUCTURAL ENGINEER

10-5-2015

DAVID BOOHER
SPRINGFIELD, ILLINOIS
ILLINOIS LICENSED STRUCTURAL
ENGINEER NO. 081-004775
EXPIRES 11/30/2016

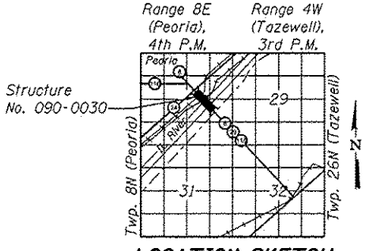
Booher seal applies to work shown on Sheets 14-22, 76, 97-104 and 108-112 of 112.

RACHEL L. MERTZ
081-006526
LICENSED
STRUCTURAL
ENGINEER
OF
ILLINOIS

Rachel L. Mertz 10/5/2015

RACHEL L. MERTZ
EDWARDSVILLE, ILLINOIS
ILLINOIS LICENSED STRUCTURAL
ENGINEER NO. 081-006526
EXPIRES 11/30/2016

Mertz seal applies to work shown on Sheets 1-13, 23-75, 77-96 and 105-107 of 112.



LOCATION SKETCH

GENERAL PLAN
CEDAR STREET BRIDGE
OVER ILLINOIS RIVER
F.A.P. ROUTE 669
PEORIA/TAZEWELL COUNTIES
STATION 14+43.00 (CENTER OF MAIN SPAN)
STRUCTURE NO. 090-0030

USER NAME =	DESIGNED - RLM	REVISED	
	CHECKED - JTH	REVISED	
PLOT SCALE =	DRAWN - AEC	REVISED	
PLOT DATE = 10/05/2015	CHECKED - RLM	REVISED	

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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

GENERAL PLAN
S.N. 090-0030 CEDAR STREET BRIDGE OVER ILLINOIS RIVER
SHEET NO. 1 OF 112 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
669	(103B)I-7	PEORIA/TAZEWELL	180	69
		CONTRACT NO. 68A93		
	ILLINOIS FED. AID PROJECT			

INDEX OF SHEETS

TOTAL BILL OF MATERIAL

ITEM	UNIT	SUPER	SUB	TOTAL
Channel Excavation	Cu Yd	-	439	439
Stone Dumped Riprap, Class A6	Ton	-	835	835
Concrete Removal	Cu Yd	148.4	-	148.4
Protective Shield	Sq Yd	7,614	-	7,614
Structure Excavation	Cu Yd	-	345	345
Concrete Structures	Cu Yd	-	317.8	317.8
Concrete Superstructure	Cu Yd	147.1	-	147.1
Bridge Deck Grooving	Sq Yd	276	-	276
Protective Coat	Sq Yd	541	-	541
Furnishing and Erecting Structural Steel	L Sum	1	-	1
Reinforcement Bars, Epoxy Coated	Pound	50,330	50,670	101,000
Bar Splicers	Each	236	-	236
Preformed Joint Strip Seal	Foot	1,178	-	1,178
Fabric Reinforced Elastomeric Trough	Foot	52	-	52
Anchor Bolts, 1"	Each	8	-	8
Concrete Sealer	Sq Ft	-	19,513	19,513
Epoxy Crack Injection	Foot	-	72	72
Impact Attenuators (Fully Redirective, Narrow), Test Level 3	Each	-	4	4
Light Pole, Aluminum, 45 Ft. M.H., 6 Ft. Davit Arm	Each	1	-	1
Removal of Lighting Unit, No Salvage	Each	1	-	1
Placement of Cement Grout	Cu Ft	-	40	40
Acrylic Coating	Sq Yd	6,108	-	6,108
Navigation Lighting System	L Sum	1	-	1
Structural Steel Removal	L Sum	1	-	1
Structural Steel Repair	Pound	40,780	-	40,780
Bridge Drainage System Repair	Each	10	-	10
Containment and Disposal of Lead Paint Cleaning Residues No. 1	L Sum	1	-	1
Cleaning and Painting Steel Bridge No. 1	L Sum	1	-	1
Cleaning Drainage System	L Sum	1	-	1
Structural Repair of Concrete (Depth Equal to or Less than 5 Inches)	Sq Ft	75	863	938
Deck Slab Repair (Partial)	Sq Yd	34	-	34
Drainage System	L Sum	1	-	1
Pin and Link Plate Replacement	Each	2	-	2
Preformed Joint Filler	Foot	-	176	176
Stabilization Fabric	Sq Yd	-	511	511
Temporary Shoring and Cribbing	L Sum	1	-	1
Temporary Support System	L Sum	1	-	1

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USER NAME =	DESIGNED - RLM	REVISED
	CHECKED - APL	REVISED
PLOT SCALE =	DRAWN - AEC	REVISED
PLOT DATE = 10/05/2015	CHECKED - RLM	REVISED

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

INDEX OF SHEETS AND TOTAL BILL OF MATERIAL
S.N. 090-0030 CEDAR STREET BRIDGE OVER ILLINOIS RIVER
SHEET NO. 2 OF 112 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
669	(103B)I-7	PEORIA/TAZEWELL	180	70
			CONTRACT NO. 68A93	
		ILLINOIS	FED. AID PROJECT	

GENERAL NOTES

Fasteners shall be ASTM A 325 Type 1, mechanically galvanized bolts. Bolts $\frac{7}{8}$" dia., open holes $\frac{15}{16}$" 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.

Calculated weight of Furnish and Erect Structural Steel = 14,170 lbs

Calculated weight of Structural Steel Removal = 17,390 lbs

All new structural steel shall conform to M270 Grade 50, unless otherwise noted.

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

Reinforcement bars designated (E) shall be epoxy coated.

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 ℄ dimensions and spacing of holes prior to ordering steel.

Existing structure plans are available for review in the District office. Contact Christopher Maushard at (309) 671-3453.

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 Engineer at the expense of the Contractor.

Concrete sealer shall be applied to the designated areas of the abutments and piers.

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 and riprap placement. Any permit application by the Contractor shall refer to the IDNR 3704 Floodway Construction permit number allowing permanent construction as shown in the contract plans.

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.

The Contractor shall submit calculations and details demonstrating the structural integrity of the bridge is maintained under the additional imposed loads of the containment system. See special provisions.

A minimum of 4 air monitors will be required to monitor abrasive blasting operations at this site. See special provision for Containment and Disposal of Lead Paint Cleaning Residues.

Cleaning and painting of the existing structural steel shall be as specified in the special provision for Cleaning and Painting Existing Steel Structures. For defined limits of the required painting and location specific cleaning and painting requirements, see Sheets 81 thru 85 of 112. The Contractor shall match the color of the final finish coat to the existing paint color on the structure.

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 surfaces and the bottom of the bottom flange of fascia beams, masked off connection surfaces, field installed fasteners and damaged areas, all of which shall be touched up in the field. The color of the final finish coat for all steel surfaces shall be warm grey, Munsell No. 2.5y 5/1. See special provision for Cleaning and Painting New Metal Structures.

CONSTRUCTION REQUIREMENTS

The Contractor shall sequence construction in order to complete work in accordance with the required completion date. See the special provision for Working Restrictions.

The Contractor is required to provide Structural Assessment Report(s) for the proposed work. See Special Provision.

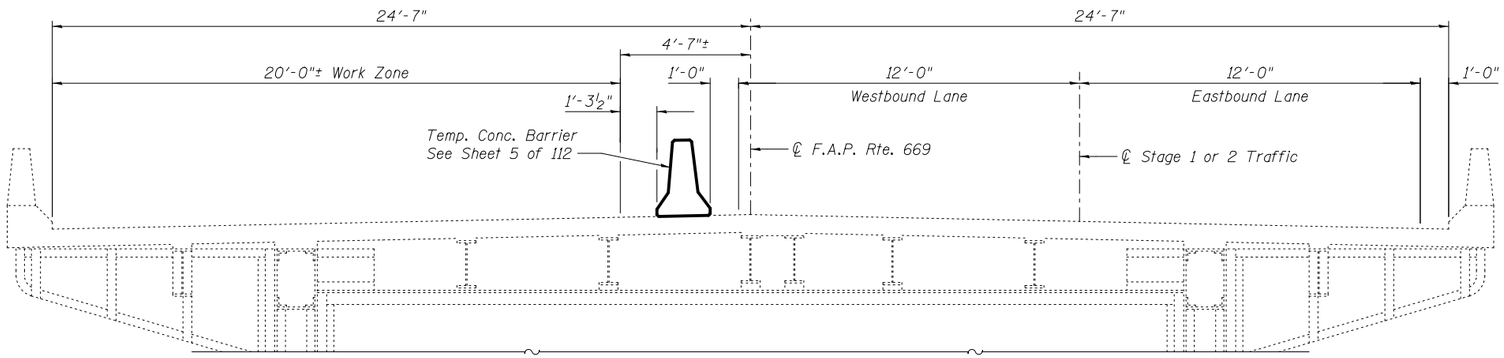
The Contractor shall retain the services of an engineering firm, prequalified in the IDOT consultant selection category of Highway Bridges (Complex), for preparation of the Structural Assessment Report(s). Contractor's pre-approval shall not be applicable for this project. See Special Provision.

Current Ratings on File for Existing Structure
Inventory: HS 8.8
Operating: HS 14.8
Live Load Restrictions: Legal Loads only

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 equipment.

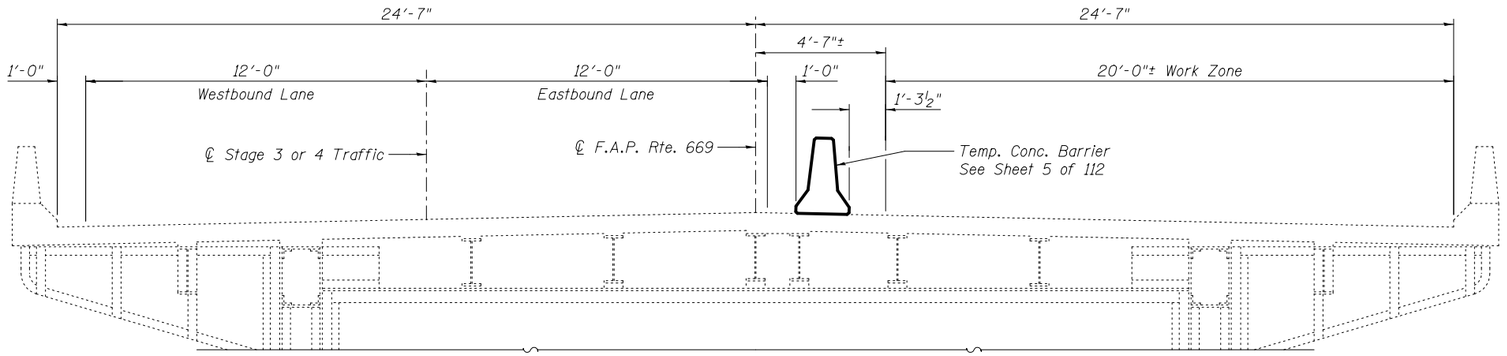
The Contractor is advised that the existing structure contains members that are in a deteriorated condition with reduced load carrying capacity. It is the Contractor's responsibility to account for the condition of the existing structure when developing construction procedures for the complete or partial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

Truss member and gusset plate repairs are to be completed under reduced bridge live loads. Individual truss member and gusset plate repairs shall be completed when stage traffic is on the opposite side of the bridge with respect to the repair location.



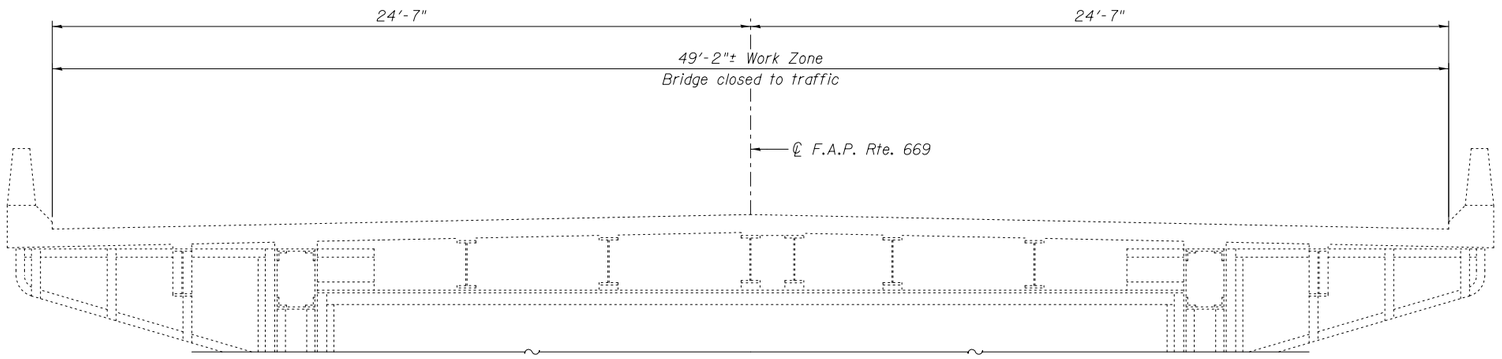
STAGES 1 AND 2 CROSS SECTION

(Truss span shown, other spans similar)
(Looking East)



STAGES 3 AND 4 CROSS SECTION

(Truss span shown, other spans similar)
(Looking East)



BRIDGE CLOSURE STAGE CROSS SECTION

(Truss span shown, other spans similar)
(Looking East)

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USER NAME =	DESIGNED - RLM	REVISED
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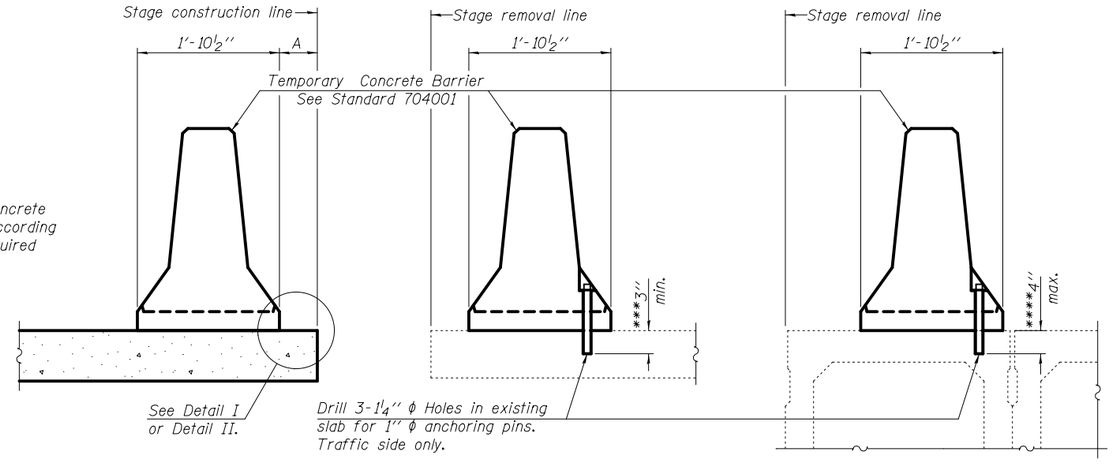
PLOT SCALE =	DRAWN - PRC	REVISED
PLOT DATE = 10/05/2015	CHECKED - RLM	REVISED

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TYPICAL STAGE CONSTRUCTION
S.N. 090-0030 CEDAR STREET BRIDGE OVER ILLINOIS RIVER
SHEET NO. 4 OF 112 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
669	(103B)I-7	PEORIA/TAZEWELL	180	72
			CONTRACT NO. 68A93	
		ILLINOIS	FED. AID PROJECT	

When "A" is 3'-1'' or less, the temporary concrete barrier shall be anchored to the new slab according to Detail I or Detail II. No anchorage is required when "A" is greater than 3'-1''.



NEW SLAB

EXISTING SLAB

EXISTING DECK BEAM

NOTES

Detail I - With Bar Splicer or Couplers:
Connect one (1) 1'' x 7' 'x ''W'' steel PL to the top layer of couplers with 2-⅝'' ϕ bolts screwed to coupler at approximate ℄ of each barrier panel.

Detail II - With Extended Reinforcement Bars:
Connect one (1) 1'' x 7'' x ''W'' steel PL to the concrete slab or concrete wearing surface with 2-⅝'' ϕ Expansion Anchors or cast in place inserts spaced between the top layer of reinforcement at approximate ℄ of each barrier panel.

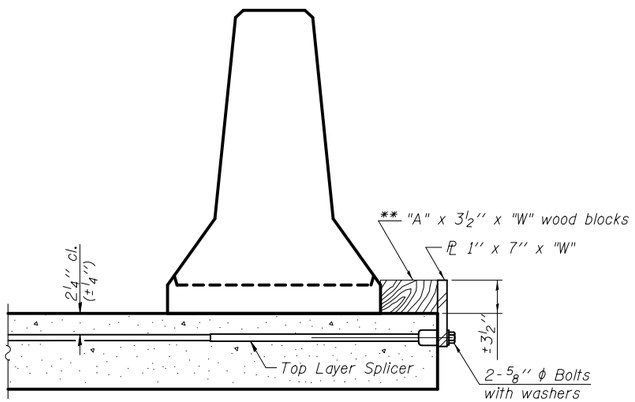
Cost of retainer assembly is included with Temporary Concrete Barrier.

The 1'' x 7'' x ''W'' plate shall not be removed until stage II construction forms and all reinforcement bars are in place and the concrete is ready to be placed.

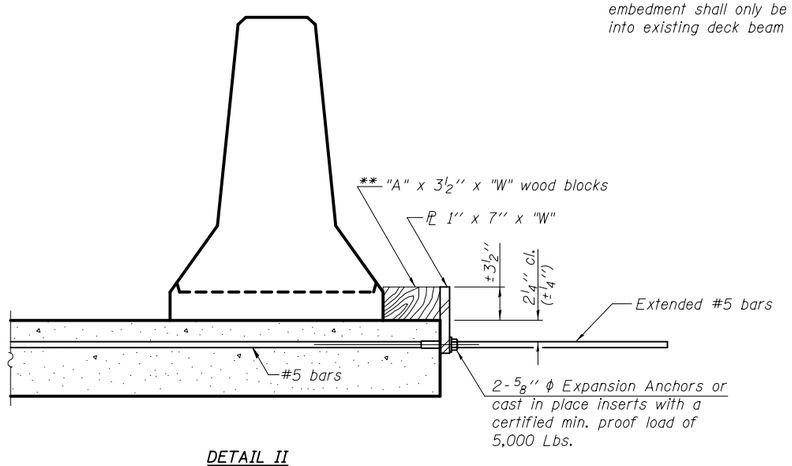
SECTIONS THRU SLAB OR DECK BEAM

*** Dimension shown is minimum required embedment into concrete. If hot-mix asphalt wearing surface is present, minimum embedment shall be in addition to wearing surface depth.

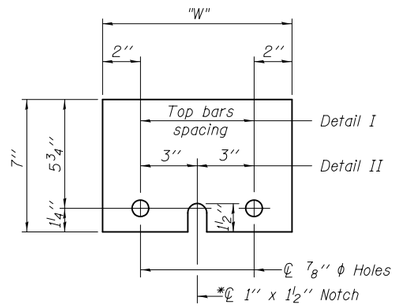
**** If existing deck beam is to remain in place after stage construction, embedment shall only be into wearing surface and not into existing deck beam concrete.



DETAIL I



DETAIL II



STEEL RETAINER PL 1'' x 7'' x ''W''

* Required only with Detail II

RETAINER ASSEMBLY

** Wood blocks may be omitted when required to provide minimum stage traffic lane width. When the wood blocks are omitted, the concrete barrier shall be in direct contact with the steel retainer plate.

R-27

1-12-15

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USER NAME =	DESIGNED - RLM	REVISED
	CHECKED - APL	REVISED
PLOT SCALE =	DRAWN - AEC	REVISED
PLOT DATE = 10/05/2015	CHECKED - RLM	REVISED

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TEMPORARY CONCRETE BARRIER FOR STAGE CONSTRUCTION
S.N. 090-0030 CEDAR STREET BRIDGE OVER ILLINOIS RIVER
SHEET NO. 5 OF 112 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
669	(103B)I-7	PEORIA/TAZEWELL	180	73
		CONTRACT NO. 68A93		
ILLINOIS	FED. AID PROJECT			

Repair I.D. No.	06/08/2015 NBIS Inspection Deficiency Item No.	Location	Sheet No. of 112
1	403	West Abutment	86 - 87
1	-	Pier 2	86 - 87
1	-	Pier 4	86 - 87
1	-	Pier 5	86 - 87
1	-	Pier 8	90 - 91
1	-	Pier 9	90 - 91
1	-	Pier 10	90 - 91
1	405	Pier 11	90 - 91
1	434	Pier 12	90 - 91
1	2	Pier 12	93
1	443	Midspan 14	88 - 89
1	450	Pier 15	90 - 91
1	2	Pier 15	93
1	181	Pier 16	90 - 91
1	-	Pier 17	90 - 91
1	470	Pier 19	90 - 91
1	-	Pier 20	90 - 91
1	2	Pier 20	93
1	2	Pier 20	93
1	475	Pier 22	90 - 91
1	-	Pier 24	90 - 91
1	-	Pier 26	90 - 91
1	-	Pier 27	90 - 91
1	2	Pier 27	93
1	418	Pier 29	90 - 91
1	219	Pier 31	90 - 91
1	419	Pier 33	90 - 91
1	420	East Abutment	90 - 91
2	331	Pier 18	96
2	-	Pier 18	93
3	-	Vaulted West Abutment Top Slab	97 - 98
4	2	Span 8	14
4	2	Span 14	15
4	2	Span 15	15
4	2	Span 16	15
4	2	Span 17	15
4	2	Span 18	16
4	2	Span 21	16
4	2	Span 22	16
4	2	Span 30	17
5	131	Span 5, North Parapet	18 - 19
5	131	Span 6, North Parapet	18 - 19
5	131	Span 7, North Parapet	18 - 19
5	131	Span 8, North Parapet	18 - 19
5	131	Span 9, North Parapet	18 & 20
5	131	Span 10, North & South Parapets	18 & 20
5	131	Span 11, North Parapet	18 & 21
5	-	Span 11, North Light Pole Base	21
5	301	Span 12, North Sign Base	21
5	131	Span 14, North & South Parapets	18 & 22
5	131	Span 15, North Parapet	18 & 22
5	191	Span 18, North Parapet	18 & 22
5	131	Span 21, North Parapet	18 & 22
5	131	Span 22, South Parapet	18 & 22
5	131	Span 25, North Parapet	18 & 22
5	476	Span 26, South Light Pole Base	21
5	131	Span 29, South Parapet	18 & 22
5	131	Span 34, North Parapet	18 & 22
5	383	Span 7, North Light Pole Base	21
5	461	Span 17, South Light Pole Base	21
6	57	Span 10, L2S	28
6	426	Span 10, L2N, Inside Gusset Plate	28
6	58	Span 10, L4N	29
6	427	Span 10, L4S, Inside Gusset Plate	29
6	59	Span 10, L6S	28
6	60	Span 10, L7S, Inside Gusset Plate	27
6	62	Span 10, L8S	24
6	63	Span 10, L8N	24
6	65	Span 11, L0S	25
6	66	Span 11, L0N	25
6	67	Span 11, L1S	27
6	68	Span 11, L2S	28
6	69	Span 11, L2N	28

Repair I.D. No.	06/08/2015 NBIS Inspection Deficiency Item No.	Location	Sheet No. of 112
6	70	Span 11, L3S, Inside Gusset Plate	27
6	71	Span 11, L3N	27
6	72	Span 11, L4S	29
6	73	Span 11, L4N	29
6	74	Span 11, L5N, Inside Gusset Plate	27
6	75	Span 11, L6S	28
6	76	Span 11, L6N, Inside Gusset Plate	28
6	77	Span 11, L7S	27
6	79	Span 11, L8S	26
6	84	Span 12, L0S	25
6	91	Span 12, L2S	28
6	92	Span 12, L2N, Inside Gusset Plate	28
6	93	Span 12, L3S	27
6	94	Span 12, L4N	29
6	433	Span 12, L4S, Outside Gusset Plate	29
6	95	Span 12, L5S, Outside Gusset Plate	27
6	232	Span 12, L6S	28
6	233	Span 12, L6N, Inside Gusset Plate	28
6	98	Span 12, L7N	27
6	99	Span 12, L7S	27
6	103	Span 12, L8S	24
6	107	Span 13, L16S	30
6	108	Span 13, L16N	30
6	109	Span 13, L15S, Outside Gusset Plate	32
6	110	Span 13, L15N, Outside Gusset Plate	32
6	112	Span 13, L14S	31
6	113	Span 13, L14N	31
6	114	Span 13, L13S	32
6	115	Span 13, L13N, Outside Gusset Plate	32
6	117	Span 13, L12S	33
6	118	Span 13, L12N, Outside Gusset Plate	33
6	120	Span 13, L11S, Outside Gusset Plate	34
6	121	Span 13, L11N, Outside Gusset Plate	34
6	122	Span 13, L10S	35
6	123	Span 13, L10N	35
6	124	Span 13, L9S	36
6	125	Span 13, L9N	36
6	126	Span 13, L8N	37
6	132	Span 14, L5N	39
6	134	Span 14, L4N	40
6	135	Span 14, L3S	41
6	136	Span 14, L3N	41
6	137	Span 14, L2N	42
6	138	Span 14, L1N	43
6	312	Span 14, L1S	43
6	139	Span 14, L0S	44
6	140	Span 14, L0N	44
6	43	Span 14, U0S, Outside Gusset Plate	46
6	141	Span 14, L0'S	45
6	142	Span 14, L0'N	45
6	445	Span 14, L1'S, Inside Gusset Plate	43
6	144	Span 14, L1'N	43
6	145	Span 14, L2'S	42
6	317	Span 14, L2'N	42
6	146	Span 14, L3'S	41
6	318	Span 14, L3'N, Inside Gusset Plate	41
6	147	Span 14, L4'S	40
6	148	Span 14, L4'N	40
6	149	Span 14, L5'S	39
6	150	Span 14, L5'N	39
6	151	Span 14, L6'N, Inside Gusset Plate	38
6	153	Span 15, L8'S	37
6	154	Span 15, L9'S	36
6	155	Span 15, L9'N	36
6	237	Span 15, L10'N	35
6	157	Span 15, L11'S	34
6	160	Span 15, L12'S	33
6	161	Span 15, L12'N	33
6	162	Span 15, L13'S, Outside Gusset Plate	32
6	240	Span 15, L13'N	32
6	163	Span 15, L14'S, Outside Gusset Plate	31
6	164	Span 15, L14'N	31
6	243	Span 15, L15'N, Inside Gusset Plate	32

Repair I.D. No.	06/08/2015 NBIS Inspection Deficiency Item No.	Location	Sheet No. of 112
6	244	Span 15, L15'S, Inside Gusset Plate	32
6	170	Span 15, L16'S, Outside Gusset Plate	30
6	326	Span 15, L16'N	30
6	451	Span 16, L0N	24
6	248	Span 16, L1N, Inside Gusset Plate	27
6	171	Span 16, L2S	28
6	172	Span 16, L2N, Inside Gusset Plate	28
6	249	Span 16, L3N, Inside Gusset Plate	27
6	250	Span 16, L3S, Inside Gusset Plate	27
6	174	Span 16, L4S	29
6	175	Span 16, L4N	29
6	252	Span 16, L5N, Inside Gusset Plate	27
6	176	Span 16, L6S	28
6	253	Span 16, L6N, Inside Gusset Plate	28
6	177	Span 16, L7S, Inside Gusset Plate	27
6	179	Span 16, L8S, Outside Gusset Plate	25
6	255	Span 16, L8N	25
6	182	Span 17, L0S	24
6	259	Span 17, L0N	24
6	260	Span 17, L2S, Inside Gusset Plate	28
6	186	Span 17, L4S, Inside Gusset Plate	29
6	264	Span 17, L4N, Inside Gusset Plate	29
6	265	Span 17, L6S, Inside Gusset Plate	28
6	188	Span 17, L7S, Inside Gusset Plate	27
6	189	Span 17, L8S	25
6	192	Span 18, L0N	48
6	193	Span 18, L0S	48
6	194	Span 18, L1N, Inside Gusset Plate	49
6	195	Span 18, L1S, Inside Gusset Plate	49
6	196	Span 18, L2N, Inside Gusset Plate	50
6	199	Span 18, L6N, Inside Gusset Plate	52
6	200	Span 18, L8N	53
6	202	Span 18, L8S	54
6	204	Span 19, L0S	48
6	205	Span 19, L0N	48
6	469	Span 19, L2S, Inside Gusset Plate	50
6	209	Span 19, L2N, Outside Gusset Plate	50
6	210	Span 19, L4N, Inside Gusset Plate	51
6	211	Span 19, L6N, Inside Gusset Plate	52
6	212	Span 19, L8S	54
6	213	Span 19, L8N	54
7	80	Span 11, L8S-U8S at L8S	55
7	41	Span 13, L16N-U16N at U16N	56
7	42	Span 14, U4S-L3S	57
7	159	Span 15, L12'N-L13'N at L12'N	58
7	168	Span 15, L16'N-U16'N at U16'N	56
7	169	Span 15, L16'S-U16'S at L16'S	58
7	246	Span 16, L0N-U0N at U0N	59
7	30	Span 17, L0S-U0S at U0S	59
7	329	Span 17, L8S-U8S at U8S	60
8	20	Span 10, L0S-L1S at L0S	61
8	61	Span 10, L7S-L8S at L8S	61
8	37	Span 11, L0S-L1S at L0S	61
8	429	Span 11, L0N-L1N at L0N	61
8	295	Span 11, L7N-L8N at L8N	61
8	229	Span 11, L7N-L8N at L8N	61
8	83	Span 12, L0S-L1S at L0S	61
8	231	Span 12, L0N-L1N at L0N	61
8	299	Span 12, L7N-L8N at L8N	61
8	13	Span 18, L0S-L1S at L0S	61
8	203	Span 19, L0S-L1S at L0S	61
9	313	Span 14, South Truss Pin and Link	74 - 75
9	314	Span 14, North Truss Pin and Link	74 - 75
10	286	Span 8, Floorbeam 0, South Cantilever Bracket	68
10	431	Span 11, Floorbeam 8, North Cantilever Bracket	67
10	432	Span 12, Floorbeam 0, North Cantilever Bracket	67
10	354	Span 12, Floorbeam 8, North Cantilever Bracket	67
10	-	Span 13, Floorbeam 16, North Cantilever Bracket	67
10	111	Span 13, Floorbeam 14	62
10	363	Span 14-15, Floorbeam 7', South Cantilever Bracket	68
10	449	Span 15, Floorbeam 16', North Cantilever Bracket	67
10	452	Span 16, Floorbeam 0, North Cantilever Bracket	67
10	453	Span 16, Floorbeam 4, North Cantilever Bracket	67

Note:
See Sheets 8 thru 13 of 112 for repair identification numbers.

MODJESKI and MASTERS
Experience great bridges.

USER NAME =	DESIGNED - JTH	REVISED
	CHECKED - RLM	REVISED
PLOT SCALE =	DRAWN - JTH	REVISED
PLOT DATE = 10/05/2015	CHECKED - RLM	REVISED

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

2015 NBIS REFERENCE TABLE – 1
S.N. 090–0030 CEDAR STREET BRIDGE OVER ILLINOIS RIVER
SHEET NO. 6 OF 112 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
669	(103B)I-7	PEORIA/TAZEWELL	180	74
		CONTRACT NO. 68A93		
	ILLINOIS	FED. AID PROJECT		

Repair I.D. No.	06/08/2015 NBIS Inspection Deficiency Item No.	Location	Sheet No. of 112
10	454	Span 16, Floorbeam 8, North Cantilever Bracket	67
10	457	Span 17, Floorbeam 0, North Cantilever Bracket	67
10	258	Span 17, Floorbeam 0	63
10	458	Span 17, Floorbeam 0, South Cantilever Bracket	67
10	463	Span 17, Floorbeam 8, North Cantilever Bracket	67
10	464	Span 17, Floorbeam 8, South Cantilever Bracket	67
10	468	Span 19, Floorbeam 0, North Cantilever Bracket	67
10	216	Span 20, Floorbeam 6, North Cantilever Bracket	69
10	217	Span 21, Floorbeam 0, North Cantilever Bracket	69
10	276	Span 23, Floorbeam 0	64
11	386	Span 10, Floorbeam 5, South Cantilever Bracket	65-66
11	304	Span 13, Floorbeam 11, North Cantilever Bracket	65-66
11	315	Span 14, Floorbeam 1', South Cantilever Bracket	65-66
11	9	Span 15, Floorbeam 12', South Cantilever Bracket	65-66
11	178	Span 16, Floorbeam 7, South Cantilever Bracket	65-66
12	408	Span 13, Stringer 4, Panel 14	72
12	409	Span 13, Stringer 4, Panel 13	72
12	410	Span 13, Stringer 4, Panel 11	72
12	442	Span 14, Stringer 4, Panel 4	73
12	411	Span 14, Stringer 1, Panel 4'	71
12	361	Span 14, Stringer 4A, Panel 7'	71
12	320	Span 15, Stringer 4, Panel 10'	72
12	321	Span 15, Stringer 4, Panel 11'	72
12	365	Span 15, Stringer 4, Panel 12'	72
12	366	Span 15, Stringer 4, Panel 13'	72
12	323	Span 15, Stringer 4, Panel 14'	73
12	324	Span 15, Stringer 4, Panel 15'	73
13	332	Span 19, Stringer 1, Panel 2	71
14	416	Span 20, South Upper Bearing at Pier 19	77 & 79
14	471	Span 20, South Lower Bearing at Pier 19	77 & 80
14	214	Span 20, North Upper Bearing at Pier 19	77 & 79
14	-	Span 20, North Lower Bearing at Pier 19	77 & 80
14	-	Span 20, End Frame at Pier 19	77 & 78
15	284	Pier 3	100
15	421	Pier 4	100
15	343	Pier 5	101
15	-	Pier 6	101
15	422	Pier 7	102
15	437	Pier 13	102
15	10	Pier 15	103
15	456	Pier 16	103
15	373	Pier 19	104
15	283	East Abutment	104
16	-	Pier 8	105-107
16	-	Pier 9	105-107
17	-	Pier 15, Foundation	108
18	54	Span 8, Drain Pipe at North end of Pier 7	110
18	438	Span 14, Drain Pipe at U6N	110
18	236	Span 15, Drain Pipe near U8'S	110
18	400	Span 17, Drain Pipe Support near L6N	110
18	376	Span 24, Drain Pipe, South Girder btwn. Flbm. 0 and Flbm. 1	110
18	338	Span 27, Drain Pipe, South Girder at Flbm. 4	110
18	218	Span 31, Drain Pipe Support near East End	110
18	479	Span 34, Drain Pipe at Flbm. 2	110
18	19	Span 34, Drain Pipe near West Abutment	110
19	-	Span 9, Drainage System	109
20	-	Pier 13, Navigation Light	111
20	444	Span 14, Navigation Light at L0	111
20	447	Pier 14, Navigation Light	111
21	-	East Approach Slab	99
22	390	Span 11, Floorbeam 5, South Cantilever Bracket	70
23	413	Span 15, U15'S, Outside Gusset Plate	47
24	396	Span 14, Light Pole, North Side	111A

Repair I.D. No.	06/08/2015 NBIS Inspection Deficiency Item No.	Location	Sheet No. of 112
Parapet Sealing	-	All Spans, North & South Parapets	18
Substructure Sealing	-	All Abutments and Piers	100
Clear Trees/Brush	341	Span 1-2, under bridge	14
Miscellaneous Steel Repairs	344	Pier 6, Beam 1	76
Miscellaneous Steel Repairs	345	Span 8, Stringer 7	76
Miscellaneous Steel Repairs	56	Span 8, South Girder	76
Miscellaneous Steel Repairs	424	Span 9, South Girder	76
Miscellaneous Steel Repairs	425	Span 9, Stringer 5	76
Miscellaneous Steel Repairs	390	Span 11, Floorbeam 5	76
Miscellaneous Steel Repairs	298	Span 12, Stringer 6	76
Miscellaneous Steel Repairs	435	Span 13-14, Floorbeam 7	76
Miscellaneous Steel Repairs	436	Span 13-14, L7S-U7S at L7S	76
Miscellaneous Steel Repairs	307	Span 13-14, Floorbeam 7	76
Miscellaneous Steel Repairs	398	Span 14, Gusset Plate at L6N	76
Miscellaneous Steel Repairs	308	Span 14, Stringer 3	76
Miscellaneous Steel Repairs	309	Span 14, Stringer 4	76
Miscellaneous Steel Repairs	310	Span 14, U4N-U5N at U5N	76
Miscellaneous Steel Repairs	440	Span 14, U4S-U5S at U5S	76
Miscellaneous Steel Repairs	311	Span 14, Stringers 4 and 5	76
Miscellaneous Steel Repairs	362	Span 15, Stringer 4A	76
Miscellaneous Steel Repairs	319	Span 14-15, Floorbeam 7'	76
Miscellaneous Steel Repairs	446	Span 14-15, East End of Platform	76
Miscellaneous Steel Repairs	327	Span 16, U6N-U7S at Stringers 3 and 5	76
Miscellaneous Steel Repairs	46	Span 17, L0S-L0N at L0N	76
Miscellaneous Steel Repairs	459	Span 17, U0N-U1S at U0N	76
Miscellaneous Steel Repairs	460	Span 17, L0S-L1S at L1S	76
Miscellaneous Steel Repairs	460	Span 17, L1S-L2S at L1S	76
Miscellaneous Steel Repairs	465	Span 18, L7N-L8N at L7N	76
Miscellaneous Steel Repairs	375	Span 21, North Girder	76
Miscellaneous Steel Repairs	33	Span 21, Stringer 6	76
Miscellaneous Steel Repairs	273	Span 21, Stringer 2	76
Miscellaneous Steel Repairs	472	Span 22, South Girder	76
Miscellaneous Steel Repairs	417	Span 22, South Girder	76
Miscellaneous Steel Repairs	473	Span 22, Floorbeam 5	76
Miscellaneous Steel Repairs	474	Span 22, Stringers 2, 3, 4, 5 and 6	76
Miscellaneous Steel Repairs	336	Span 23, Stringers 3 and 4	76
Miscellaneous Steel Repairs	477	Span 30, Stringer 2	76
Miscellaneous Steel Repairs	478	Span 34, Floorbeams 1, 2 and 3	76
Miscellaneous Steel Repairs	480	Span 34, North Girder	76
Miscellaneous Steel Repairs	481	Span 34, South Girder	76
Structural Painting	1	Span 32-33	81
Structural Painting	1	West Abutment, Piers 2, 4, 5, and 7	82
Structural Painting	1	Piers 7-12, Midspan 14, 15-20, 22, 24, 26, 27, 29, 31, 33 & East Abut.	83
Structural Painting	1	Span 10-19, Select Lower Truss Joints	84-85

Note:
See Sheets 8 thru 13 of 112 for repair identification numbers.

MODJESKI and MASTERS
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	CHECKED - RLM	REVISED
PLOT SCALE =	DRAWN - JTH	REVISED
PLOT DATE = 10/05/2015	CHECKED - RLM	REVISED

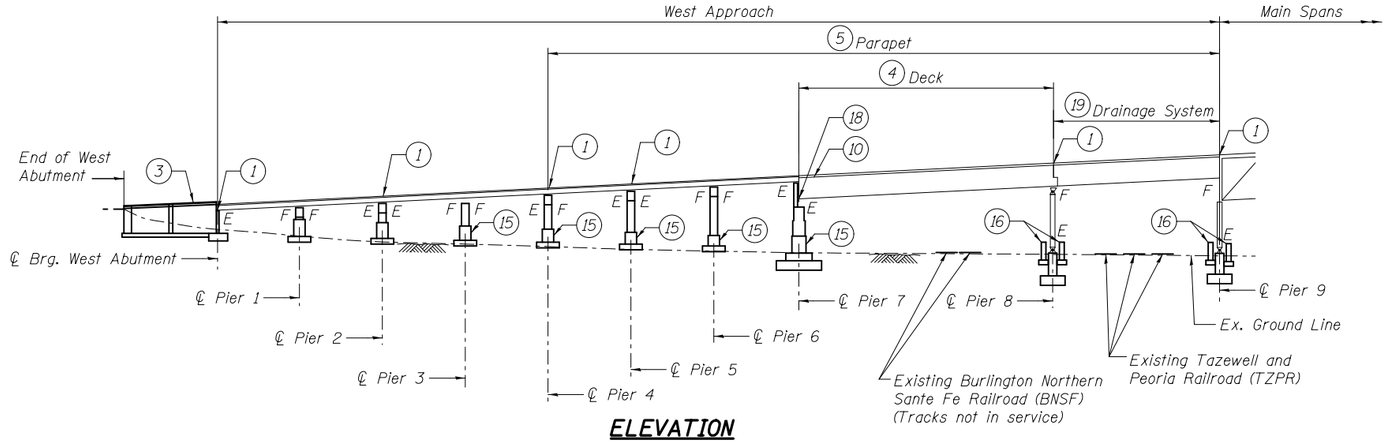
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

2015 NBIS REFERENCE TABLE – 2
S.N. 090-0030 CEDAR STREET BRIDGE OVER ILLINOIS RIVER
SHEET NO. 7 OF 112 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
669	(103B)I-7	PEORIA/TAZEWELL	180	75
			CONTRACT NO. 68A93	
		ILLINOIS FED. AID PROJECT		

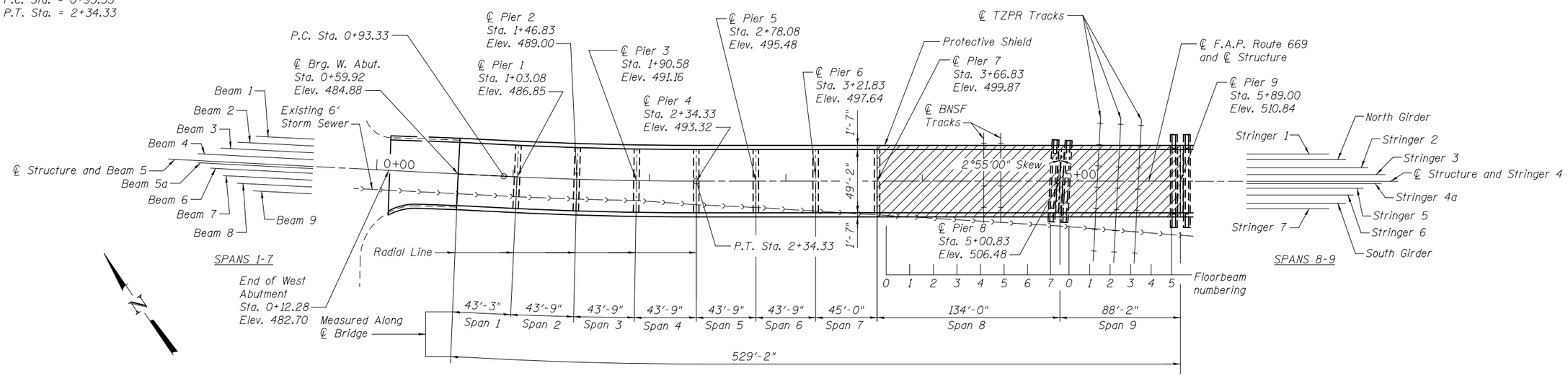
CURVE DATA

P.I. Sta. = 1+63.85
Δ = 2°55'00" (LT)
D = 2°04'06"
R = 2770.06'
T = 70.52'
L = 141.01'
E = 0.90'
P.C. Sta. = 0+93.33
P.T. Sta. = 2+34.33



ELEVATION

(Looking North)



PLAN

WEST APPROACH REPAIR SCHEDULE

ID. NO.	Item	Location	Action
-	Parapet	Entire Structure including Vaulted West Abutment	Seal concrete parapet with acrylic coating
-	Bearing Seat/Pier Cap	All Substructure Units	Seal concrete substructure bearing seat/cap
-	Miscellaneous Steel Repairs	Various Steel Members	Replace loose or missing fasteners, grind out cracked tack welds
-	Structural Painting	Steel Members below Expansion Joints	Clean and paint existing structural steel within defined limits
1	Expansion Joint	West Abutment, Pier 2, Pier 4, Pier 5, Pier 8 and Pier 9	Replace preformed joint sealer or neoprene joints with strip seals
3	Vaulted Abutment	West Abutment	Replace top slab of vaulted abutment
4	Deck	Span 8	Perform partial-depth concrete repair
5	Parapet	Span 5 to Span 9	Replace sections of parapet
10	Floorbeam/Cantilever Floorbeam Bracket	Span 8, Floorbeam 0	Install repair plates and angles
15	Substructure	Pier 3, Pier 4, Pier 5, Pier 6 and Pier 7	Perform formed concrete repairs and epoxy crack injection
16	Steel Bent	Pier 8 and Pier 9	Install crashwall along both sides of steel bent
18	Drainage System	Pier 7	Repair damaged drainage system
19	Drainage System	Span 9	Install closed drainage system for existing downspouts

BILL OF MATERIAL

Item	Unit	Total
Protective Shield	Sq. Yd.	1,292

Note:
For 2015 NBIS defect item numbers and sheet reference, see Sheets 6 and 7 of 112.

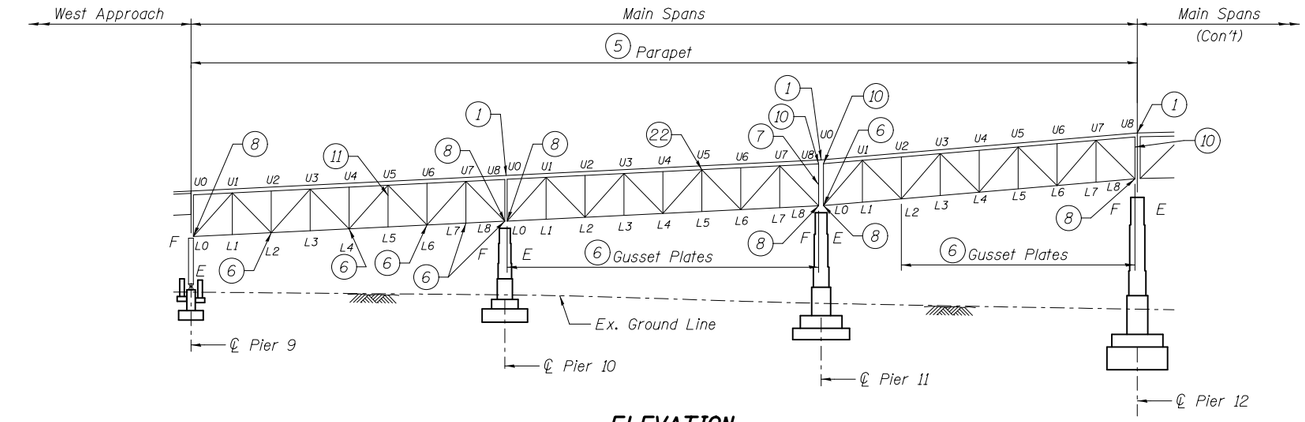
MODJESKI and MASTERS
Experience great bridges.

USER NAME =	DESIGNED - RLM	REVISED
	CHECKED - APL	REVISED
PLOT SCALE =	DRAWN - AEC	REVISED
PLOT DATE = 10/05/2015	CHECKED - RLM	REVISED

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

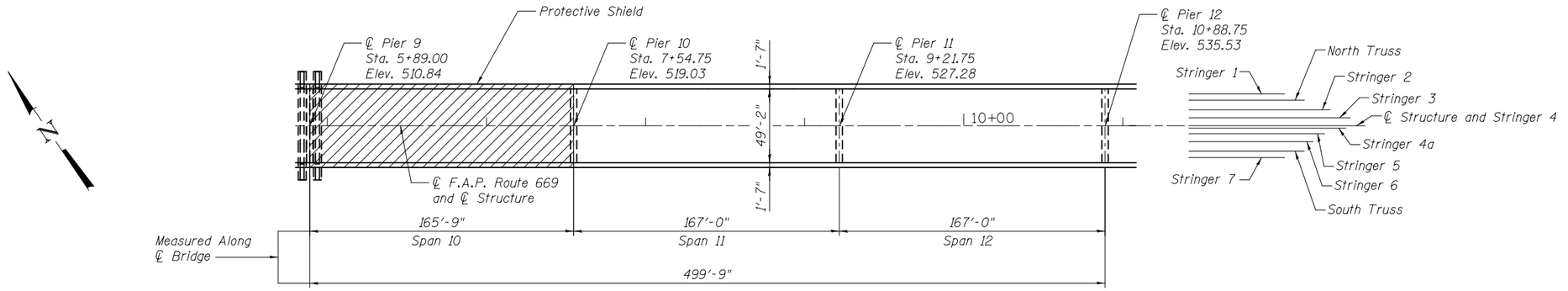
GENERAL PLAN AND ELEVATION – WEST APPROACH
S.N. 090–0030 CEDAR STREET BRIDGE OVER ILLINOIS RIVER
SHEET NO. 8 OF 112 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
669	(103B)I-7	PEORIA/TAZEWELL	180	76
		CONTRACT NO. 68A93		
	ILLINOIS FED. AID PROJECT			



ELEVATION

(Looking North)



PLAN

MAIN SPAN REPAIR SCHEDULE 1

ID. NO.	Item	Location	Action
-	Parapet	Entire Structure	Seal concrete parapet with acrylic coating
-	Bearing Seat/Pier Cap	All Substructure Units	Seal concrete substructure bearing seat/cap
-	Miscellaneous Steel Repairs	Various Steel Members	Replace loose or missing fasteners, grind out cracked tack welds
-	Structural Painting	Steel Members below expansion joints and select gusset plates	Clean and paint existing structural steel within defined limits
1	Expansion Joint	Pier 10, Pier 11 and Pier 12	Replace preformed joint sealer or neoprene joints with strip seals, perform partial-depth concrete repair
5	Parapet	Span 10 to Span 12	Replace sections of parapet
6	Gusset Plates	Span 10: L2N, L2S, L4S, L4N, L6S, L7S, L8N, L8S Span 11: L0N, L0S, L1S, L2N, L2S, L3N, L3S, L4N, L4S, L5N, L6N, L6S, L7S, L8S Span 12: L0S, L2N, L2S, L3S, L4N, L4S, L5S, L6N, L6S, L7N, L7S, L8S	Install repair plates and angles
7	Primary Truss Member	Span 11, L8S-U8S	Install repair plates and angles
8	Primary Truss Member	Span 10, L0S-L1S @ L0S; Span 10, L7S-L8S @ L8S; Span 11, L0S-L1S @ L0S; Span 11, L0N-L1N @ L0N; Span 11, L7N-L8N @ L8N; Span 12, L0S-L1S @ L0S; Span 12, L7N-L8N @ L8N; Span 12, L0N-L1N @ L0N	Remove and replace lower chord stay plate
10	Floorbeam/Cantilever Floorbeam Bracket	Span 11, Floorbeam 8; Span 12, Floorbeam 0 and Floorbeam 8	Install repair plates and angles
11	Cantilever Floorbeam Bracket	Span 10, Floorbeam 5	Grind out gouge or tear in top flange of cantilever floorbeam bracket, cope stringer web, install repair plates and angles
22	Floorbeam	Span 11, Floorbeam 5	Drill crack tip and install repair plates

BILL OF MATERIAL

Item	Unit	Total
Protective Shield	Sq. Yd.	964

Notes:
Floorbeam numbering coincides with truss joint numbering shown.
For 2015 NBIS defect item numbers and sheet reference, see Sheets 6 and 7 of 112.

MODJESKI and MASTERS
Experience great bridges.

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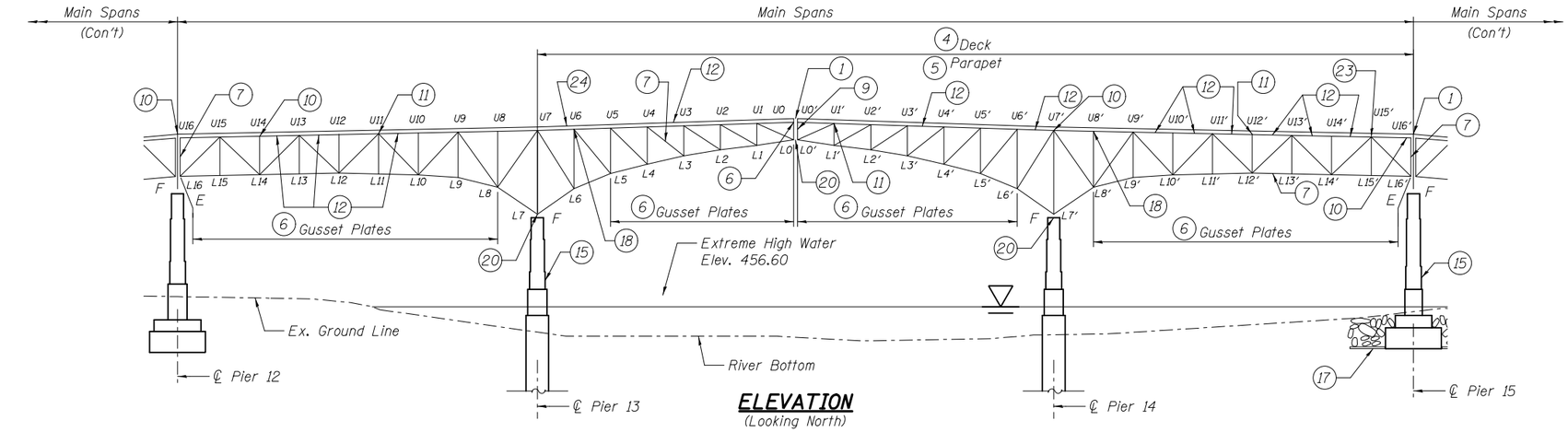
	CHECKED - APL	REVISED
PLOT SCALE =	DRAWN - AEC	REVISED
PLOT DATE = 10/05/2015	CHECKED - RLM	REVISED

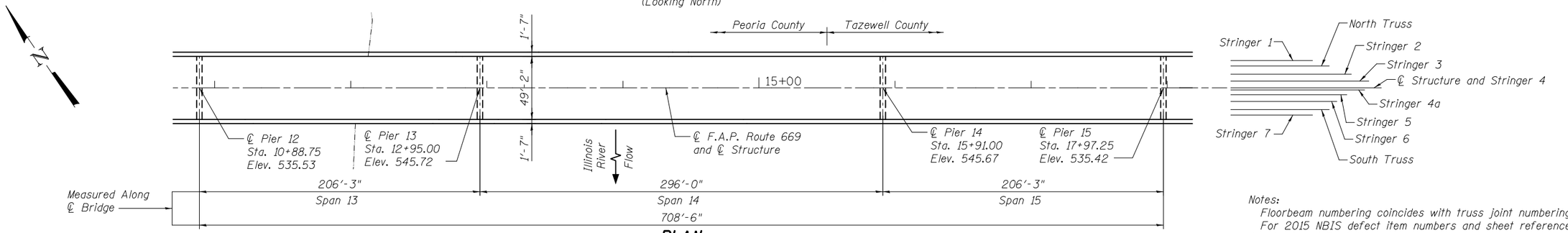
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

GENERAL PLAN AND ELEVATION – MAIN SPAN REPAIRS 1
S.N. 090-0030 CEDAR STREET BRIDGE OVER ILLINOIS RIVER
SHEET NO. 9 OF 112 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
669	(103B)I-7	PEORIA/TAZEWELL	180	77
			CONTRACT NO. 68A93	
		ILLINOIS	FED. AID PROJECT	



ELEVATION
(Looking North)



PLAN

Notes:
Floorbeam numbering coincides with truss joint numbering shown. For 2015 NBIS defect item numbers and sheet reference, see Sheets 6 and 7 of 112.

MAIN SPAN REPAIR SCHEDULE 2

ID. NO.	Item	Location	Action
-	Parapet	Entire Structure	Seal concrete parapet with acrylic coating
-	Bearing Seat/Pier Cap	All Substructure Units	Seal concrete substructure bearing seat/cap
-	Miscellaneous Steel Repairs	Various Steel Members	Replace loose or missing fasteners, grind out cracked tack welds
-	Structural Painting	Steel Members below expansion joints and select gusset plates	Clean and paint existing structural steel within defined limits
1	Expansion Joint	Midspan 14, Pier 15	Replace preformed joint sealer or neoprene joints with strip seals, perform partial-depth concrete repair
4	Deck	Span 14 and Span 15	Perform partial-depth concrete repair
5	Parapet	Span 14 and Span 15	Replace sections of parapet
6	Gusset Plates	Span 13: L16N, L16S, L15N, L15S, L14N, L14S, L13N, L13S, L12N, L12S, L11N, L11S, L10N, L10S, L9N, L9S, L8N Span 14: L5N, L4N, L3N, L3S, L2N, L1N, L1S, L0N, L0S, U0S, L0'N, L0'S, L1'N, L1'S, L2'N, L2'S, L3'N, L3'S, L4'N, L4'S, L5'N, L5'S, L6'N Span 15: L8'S, L9'N, L9'S, L10'N, L11'S, L12'N, L12'S, L13'N, L13'S, L14'N, L14'S, L15'N, L15'S, L16'N, L16'S	Install repair plates and angles
7	Primary Truss Member	Span 13, L16N-U16N; Span 14, L3S-U4S; Span 15, L12'N-L13'N; Span 15, L16'N-U16'N; Span 15, L16'S-U16'S	Install repair plates and angles
9	Pin and Link Assembly	Midspan 14: North Truss, South Truss	Replace pin and link assemblies
10	Floorbeam/Cantilever Floorbeam Bracket	Span 13, Floorbeam 16; Span 13, Floorbeam 14; Span 15, Floorbeam 16'; Span 14-15, Floorbeam 7'	Install repair plates and angles
11	Cantilever Floorbeam Bracket	Span 13, Floorbeam 11; Span 14, Floorbeam 1'; Span 15, Floorbeam 12'	Grind out gouge or tear in top flange of cantilever floorbeam bracket, cope stringer web, install repair plates and angles
12	Stringer	Span 13: Stringer 4, Panel 11; Stringer 4, Panel 13; Stringer 4, Panel 14 Span 14: Stringer 1, Panel 4'; Stringer 4a, Panel 7'; Stringer 4, Panel 4 Span 15: Stringer 4, Panel 10'; Stringer 4, Panel 11'; Stringer 4, Panel 12'; Stringer 4, Panel 13'; Stringer 4, Panel 14'; Stringer 4, Panel 15'	Install repair plates and bent plates
15	Substructure	Pier 13 and Pier 15	Perform formed concrete repairs
17	Pier	Pier 15	Install filter mattress and riprap
18	Drainage System	Span 14 and Span 15	Repair damaged drainage system
20	Navigation Light	Pier 13, Midspan 14 and Pier 14	Replace navigation light and retro-reflective panel
23	Gusset Plate	Span 15, U15'S	Clean area along delamination and install bolts along edge of plate
24	Light Pole	Span 14, North side near Pier 13	Replace light pole

MODJESKI and MASTERS
Experience great bridges.

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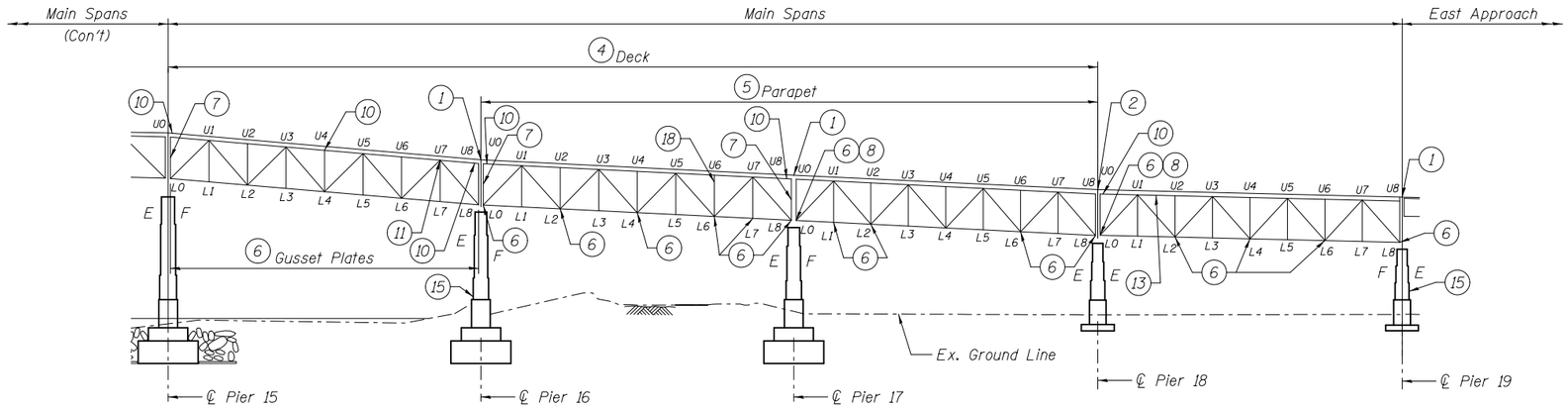
PLOT SCALE =	DRAWN - AEC	REVISED
PLOT DATE = 10/05/2015	CHECKED - RLM	REVISED

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

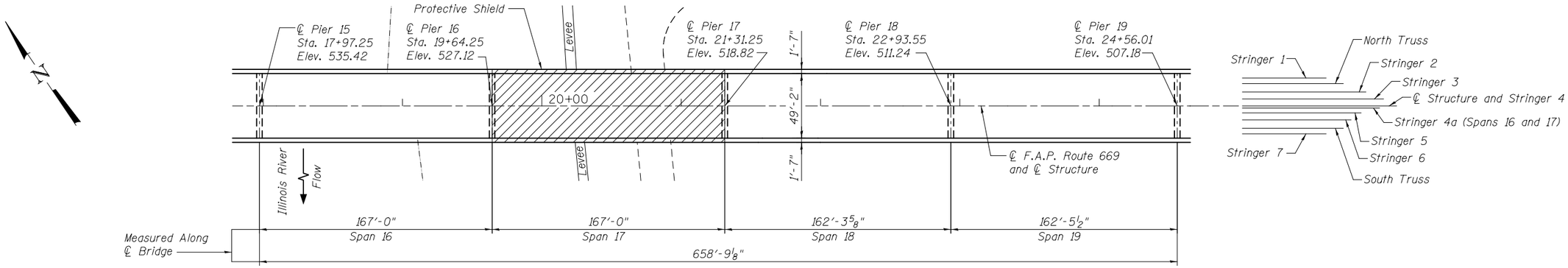
GENERAL PLAN AND ELEVATION – MAIN SPAN REPAIRS 2
S.N. 090-0030 CEDAR STREET BRIDGE OVER ILLINOIS RIVER
SHEET NO. 10 OF 112 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
669	(103B)I-7	PEORIA/TAZEWELL	180	78
		CONTRACT NO. 68A93		
	ILLINOIS	FED. AID PROJECT		



ELEVATION

(Looking North)



PLAN

MAIN SPAN REPAIR SCHEDULE 3

ID. NO.	Item	Location	Action
-	Parapet	Entire Structure	Seal concrete parapet with acrylic coating
-	Bearing Seat/Pier Cap	All Substructure Units	Seal concrete substructure bearing seat/cap
-	Miscellaneous Steel Repairs	Various Steel Members	Replace loose or missing fasteners, grind out cracked tack welds
-	Structural Painting	Steel Members below expansion joints and select gusset plates	Clean and paint existing structural steel within defined limits
1	Expansion Joint	Pier 16, Pier 17 and Pier 19	Replace preformed joint sealer or neoprene joints with strip seals
2	Expansion Joint	Pier 18	Replace finger plate trough, perform partial-depth concrete repair
4	Deck	Span 16 to Span 18	Perform partial-depth concrete repair
5	Parapet	Span 17 and Span 18	Replace sections of parapet
6	Gusset Plates	Span 16: L0N, L1N, L2N, L2S, L3N, L3S, L4N, L4S, L5N, L6N, L6S, L7S, L8N, L8S Span 17: L0N, L0S, L2S, L4N, L4S, L6S, L7S, L8S; Span 18: L0N, L0S, L1N, L1S, L2N, L6N, L8N, L8S Span 19: L0N, L0S, L2N, L2S, L4N, L6N, L8N, L8S	Install repair plates and angles
7	Primary Truss Member	Span 16, L0N-U0N; Span 17, L0S-U0S; Span 17, L8S-U8S	Install repair plates and angles
8	Primary Truss Member	Span 18, L0S-L1S @ L0S; Span 19, L0S-L1S @ L0S	Remove and replace lower chord stay plate
10	Floorbeam/Cantilever Floorbeam Bracket	Span 16: Floorbeam 0, Floorbeam 4, Floorbeam 8; Span 17: Floorbeam 0, Floorbeam 8; Span 19: Floorbeam 0	Install repair plates and angles
11	Cantilever Floorbeam Bracket	Span 16, Floorbeam 7	Grind out gouge or tear in top flange of cantilever floorbeam bracket, cope stringer web, install repair plates and angles
13	Stringer	Span 19, Stringer 1, Panel 2	Drill crack tip
15	Substructure	Pier 16 and Pier 19	Perform formed concrete repairs
18	Drainage System	Span 17	Repair damaged drainage system

BILL OF MATERIAL

Item	Unit	Total
Protective Shield	Sq. Yd.	972

Notes:

Floorbeam numbering coincides with truss joint numbering shown.

For 2015 NBIS defect item numbers and sheet reference, see Sheets 6 and 7 of 112.

MODJESKI and MASTERS
Experience great bridges.

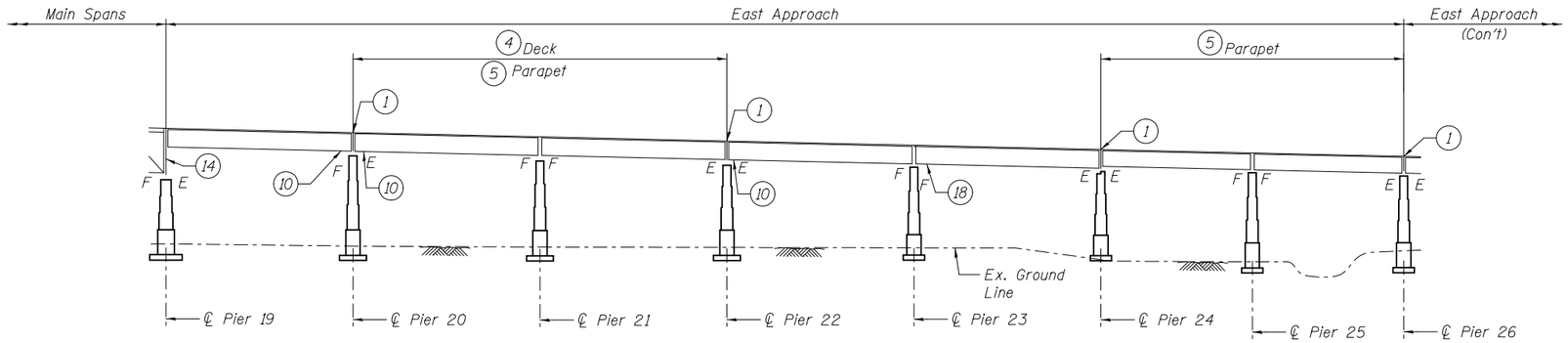
USER NAME =	DESIGNED - RLM	REVISED
	CHECKED - APL	REVISED
PLOT SCALE =	DRAWN - AEC	REVISED
PLOT DATE = 10/05/2015	CHECKED - RLM	REVISED

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

GENERAL PLAN AND ELEVATION – MAIN SPAN REPAIRS 3
S.N. 090-0030 CEDAR STREET BRIDGE OVER ILLINOIS RIVER

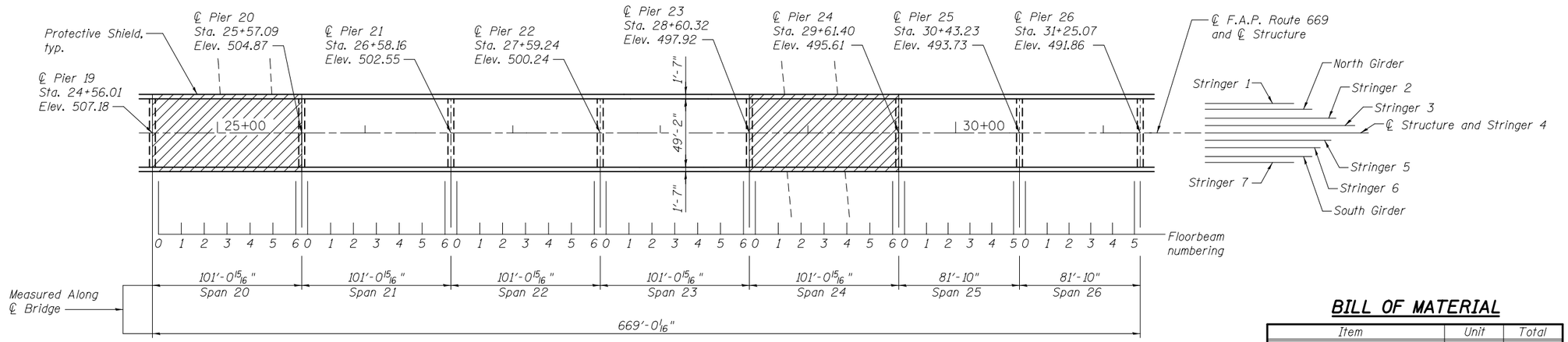
SHEET NO. 11 OF 112 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
669	(103B)I-7	PEORIA/TAZEWELL	180	79
			CONTRACT NO. 68A93	
	ILLINOIS	FED. AID PROJECT		



ELEVATION

(Looking North)



PLAN

BILL OF MATERIAL

Item	Unit	Total
Protective Shield	Sq. Yd.	1,176

EAST APPROACH REPAIR SCHEDULE 1

ID. NO.	Item	Location	Action
-	Parapet	Entire Structure	Seal concrete parapet with acrylic coating
-	Bearing Seat/Pier Cap	All Substructure Units	Seal concrete substructure bearing seat/cap
-	Miscellaneous Steel Repairs	Various Steel Members	Replace loose or missing fasteners, grind out cracked tack welds
-	Structural Painting	Steel Members below Expansion Joints	Clean and paint existing structural steel within defined limits
1	Expansion Joint	Pier 20, Pier 22, Pier 24 and Pier 26	Replace preformed joint sealer or neoprene joints with strip seals, perform partial-depth concrete repair
4	Deck	Span 21 and Span 22	Perform partial-depth concrete repair
5	Parapet	Span 21, Span 22, Span 25 and Span 26	Replace sections of parapet
10	Floorbeam/Cantilever Floorbeam Bracket	Span 20, Floorbeam 6; Span 21, Floorbeam 0; Span 23, Floorbeam 0	Install repair plates and angles
14	Bearings and End Frame	Span 20, Pier 19	Replace existing upper and lower steel bearings and end frame
18	Drainage System	Span 24	Repair damaged drainage system

Note:
For 2015 NBIS defect item numbers and sheet reference, see Sheets 6 and 7 of 112.

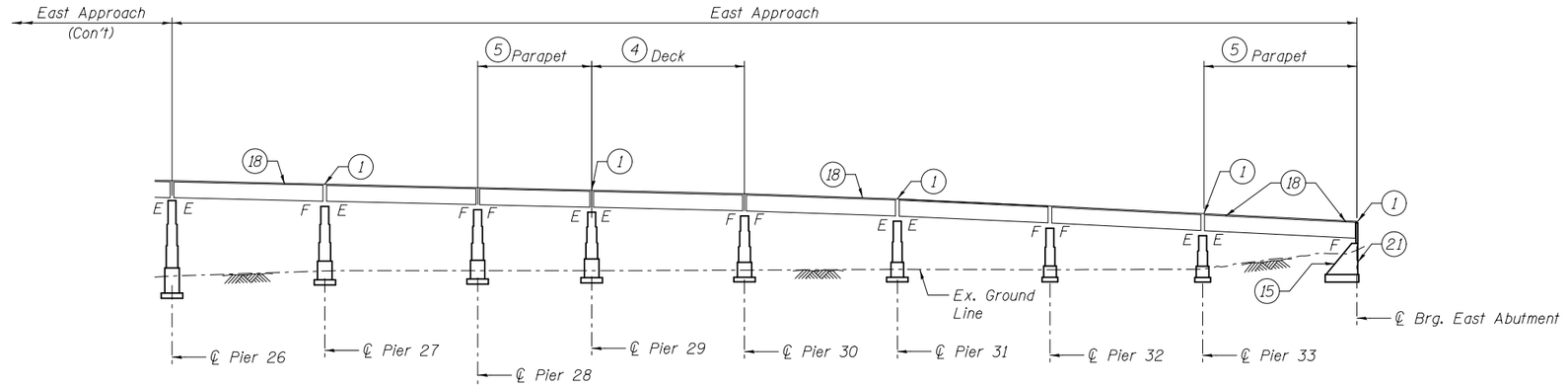
MODJESKI and MASTERS
Experience great bridges.

USER NAME =	DESIGNED - RLM	REVISED
	CHECKED - APL	REVISED
PLOT SCALE =	DRAWN - AEC	REVISED
PLOT DATE = 10/05/2015	CHECKED - RLM	REVISED

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

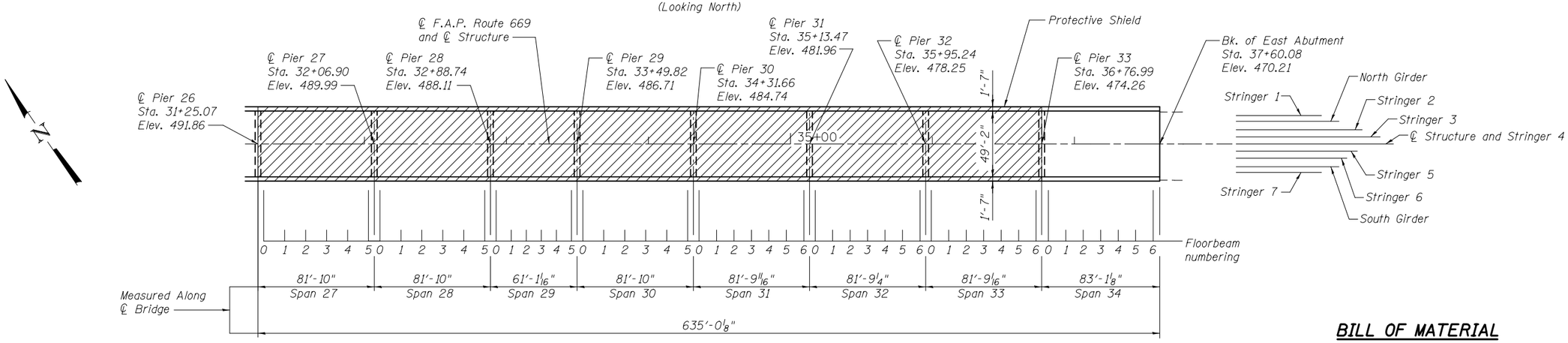
GENERAL PLAN AND ELEVATION – EAST APPROACH REPAIRS 1
S.N. 090-0030 CEDAR STREET BRIDGE OVER ILLINOIS RIVER
SHEET NO. 12 OF 112 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
669	(103B)I-7	PEORIA/TAZEWELL	180	80
			CONTRACT NO. 68A93	
		ILLINOIS	FED. AID PROJECT	



ELEVATION

(Looking North)



PLAN

BILL OF MATERIAL

Item	Unit	Total
Protective Shield	Sq. Yd.	3,210

EAST APPROACH REPAIR SCHEDULE 2

ID. NO.	Item	Location	Action
-	Parapet	Entire Structure including Parapets Replaced on the East Approach	Seal concrete parapet with acrylic coating
-	Bearing Seat/Pier Cap	All Substructure Units	Seal concrete substructure bearing seat/cap
-	Miscellaneous Steel Repairs	Various Steel Members	Replace loose or missing fasteners, grind out cracked tack welds
-	Structural Painting	Steel Members below Expansion Joints and Entire Floorsystem of Spans 32 and 33	Clean and paint existing structural steel within defined limits
1	Expansion Joint	Pier 27, Pier 29, Pier 31, Pier 33 and East Abutment	Replace preformed joint sealer or neoprene joints with strip seals, perform partial-depth concrete repair
4	Deck	Span 30	Perform partial-depth concrete repair
5	Parapet	Span 29 and Span 34	Replace sections of parapet
15	Substructure	East Abutment	Perform formed concrete repairs and epoxy crack injection
18	Drainage System	Span 27, Span 31 and Span 34	Repair damaged drainage system
21	Abutment Backfill	East Abutment	Fill voided area behind East Abutment

Note:
For 2015 NBIS defect item numbers and sheet reference, see Sheets 6 and 7 of 112.

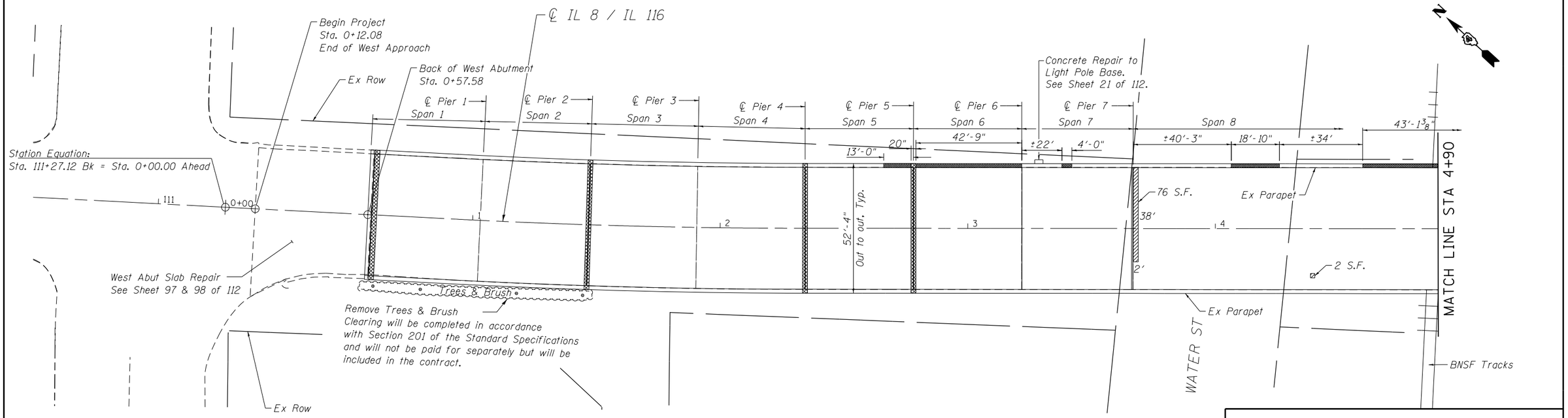
MODJESKI and MASTERS
Experience great bridges.

USER NAME =	DESIGNED - RLM	REVISED
	CHECKED - APL	REVISED
PLOT SCALE =	DRAWN - AEC	REVISED
PLOT DATE = 10/05/2015	CHECKED - RLM	REVISED

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

GENERAL PLAN AND ELEVATION – EAST APPROACH REPAIRS 2
S.N. 090-0030 CEDAR STREET BRIDGE OVER ILLINOIS RIVER
SHEET NO. 13 OF 112 SHEETS

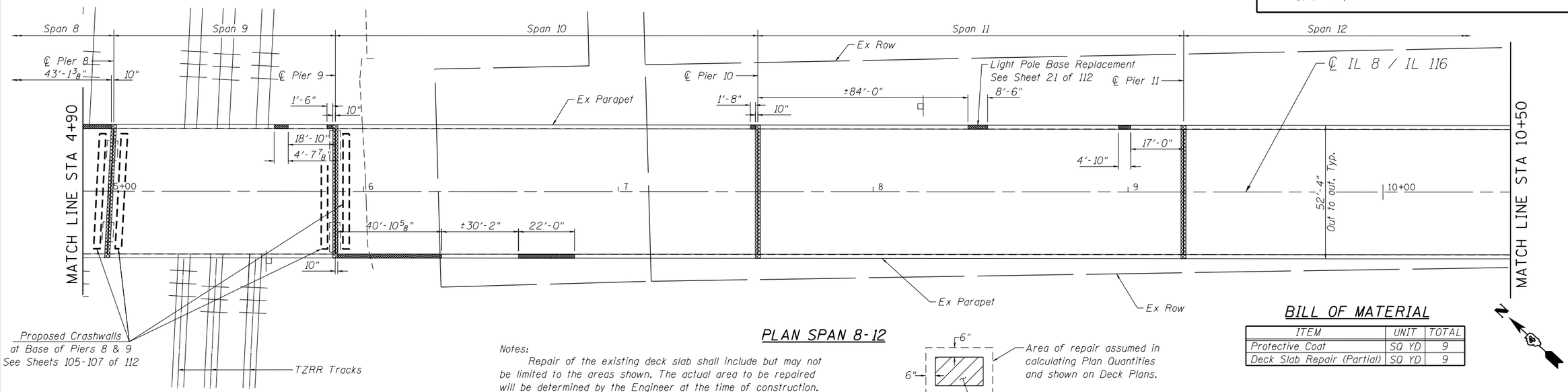
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
669	(103B)I-7	PEORIA/TAZEWELL	180	81
			CONTRACT NO. 68A93	
		ILLINOIS	FED. AID PROJECT	



PLAN SPAN 1-8

LEGEND

- = Concrete Removal for Expansion Joint Replacement (See Sheet 86 & 90 of 112 for Details)
- = Concrete Removal for Parapet Replacement (See Sheet 18-22 of 112 for Details)
- = Deck Slab Repair (Partial)
- S.F. = Square Feet

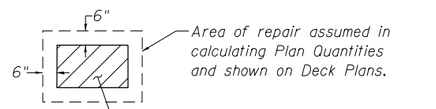


PLAN SPAN 8-12

Notes:

Repair of the existing deck slab shall include but may not be limited to the areas shown. The actual area to be repaired will be determined by the Engineer at the time of construction.

Deck slab repairs shall be tined to produce grooves approximately 3/16" deep and spaced at 3/4". Cost included in DECK SLAB REPAIR (PARTIAL). PROTECTIVE COAT shall be applied to the top of all Deck Slab Repairs.



BILL OF MATERIAL

ITEM	UNIT	TOTAL
Protective Coat	SQ YD	9
Deck Slab Repair (Partial)	SQ YD	9

(•) Peoria / Tazewell

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PLOT DRIVER = IDOT.PDF.plotcfg

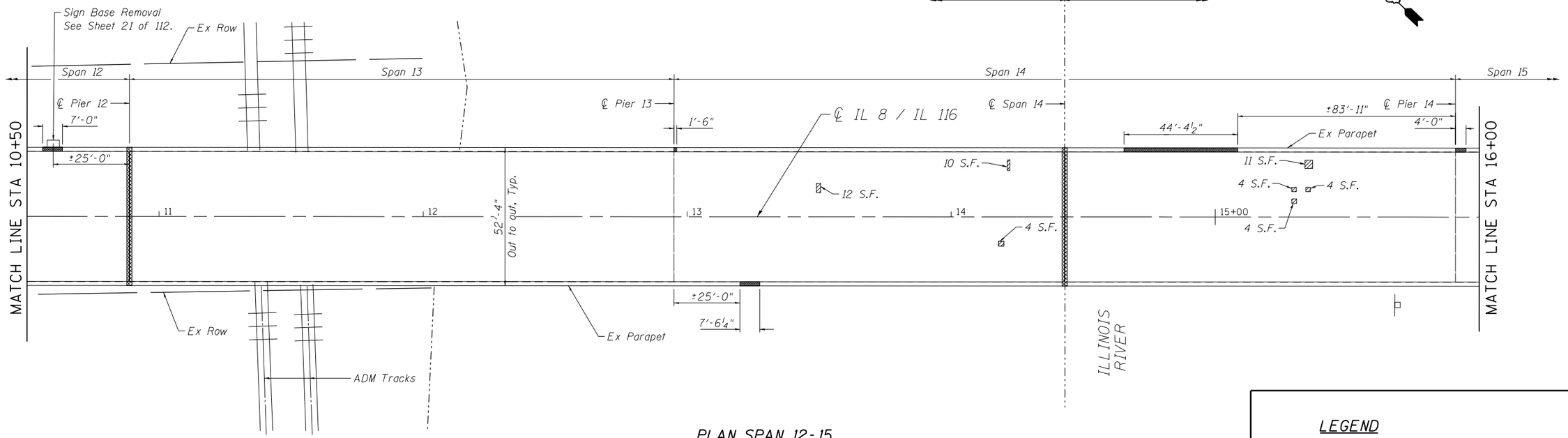
QUIGG ENGINEERING INC

USER NAME = cstokes	DESIGNED - DRB	REVISED
0900030-68A93-082-BridgeRepairs01.dgn	CHECKED - SDM	REVISED
PLOT SCALE = 39.9893 ' / in.	DRAWN - TRF	REVISED
PLOT DATE = 10/05/2015	CHECKED - DRB	REVISED

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

CONCRETE DECK REPAIRS – 1
S.N. 090–0030 CEDAR STREET BRIDGE OVER ILLINOIS RIVER
SHEET NO. 14 OF 112 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
669	(103B)I-7	(•)	180	82
		CONTRACT NO. 68A93		
	ILLINOIS FED. AID PROJECT			



PLAN SPAN 12-15

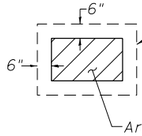
LEGEND

= Concrete Removal for Expansion Joint Replacement (See Sheet 88 & 90 of 112 for Details)

= Concrete Removal for Parapet Replacement (See Sheet 18-22 of 112 for Details)

= Deck Slab Repair (Partial)

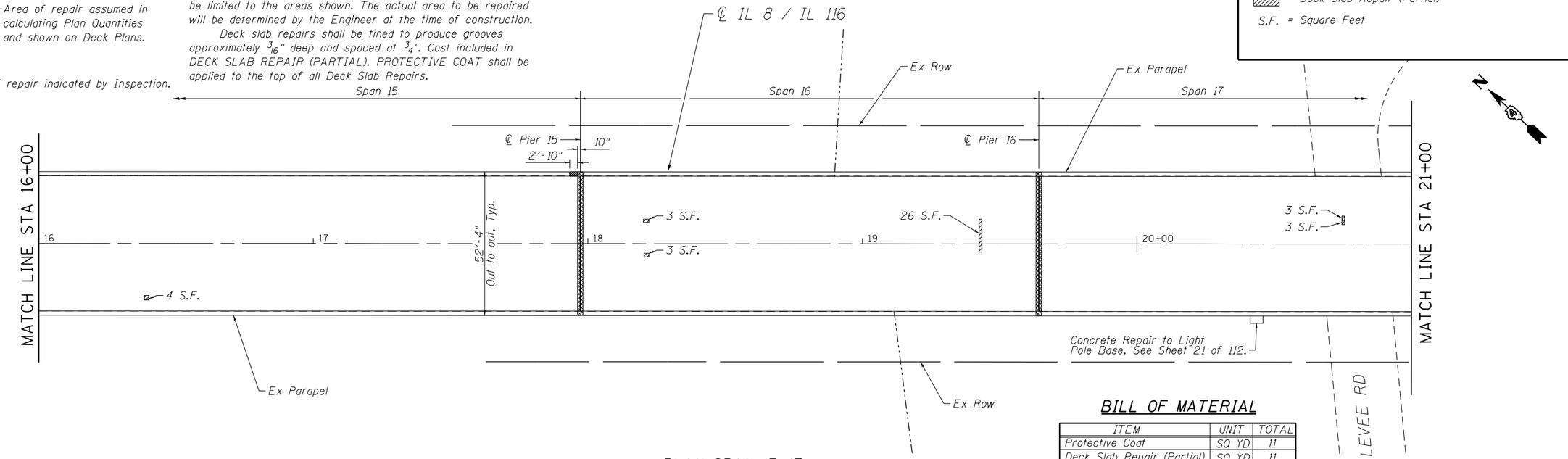
S.F. = Square Feet



Notes:

Repair of the existing deck slab shall include but may not be limited to the areas shown. The actual area to be repaired will be determined by the Engineer at the time of construction.

Deck slab repairs shall be tined to produce grooves approximately $\frac{3}{16}$" deep and spaced at $\frac{3}{4}$". Cost included in DECK SLAB REPAIR (PARTIAL). PROTECTIVE COAT shall be applied to the top of all Deck Slab Repairs.



PLAN SPAN 15-17

BILL OF MATERIAL

ITEM	UNIT	TOTAL
Protective Coat	SQ YD	11
Deck Slab Repair (Partial)	SQ YD	11

(•) Peoria / Tazewell

QUIGG ENGINEERING INC

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PLOT DATE = 10/05/2015	CHECKED - DRB	REVISED

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

CONCRETE DECK REPAIRS – 2
S.N. 090–0030 CEDAR STREET BRIDGE OVER ILLINOIS RIVER
SHEET NO. 15 OF 112 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
669	(103B)I-7	(•)	180	83
		CONTRACT NO. 68A93		
	ILLINOIS FED. AID PROJECT			

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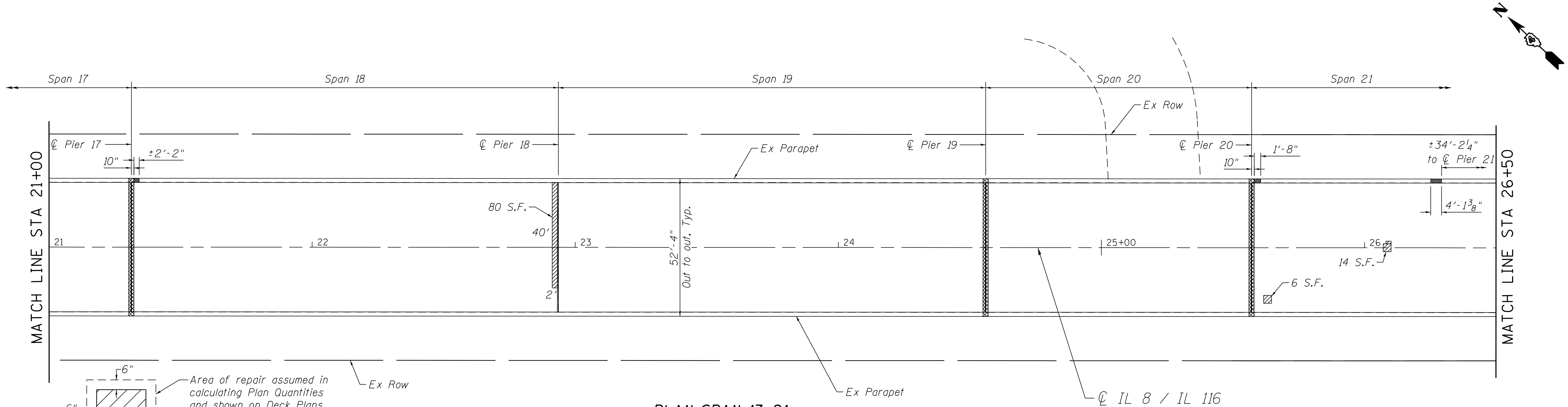


PLAN SPAN 17-21

Notes:

Repair of the existing deck slab shall include but may not be limited to the areas shown. The actual area to be repaired will be determined by the Engineer at the time of construction.

Deck slab repairs shall be tined to produce grooves approximately 3/16" deep and spaced at 3/4". Cost included in DECK SLAB REPAIR (PARTIAL). PROTECTIVE COAT shall be applied to the top of all Deck Slab Repairs.

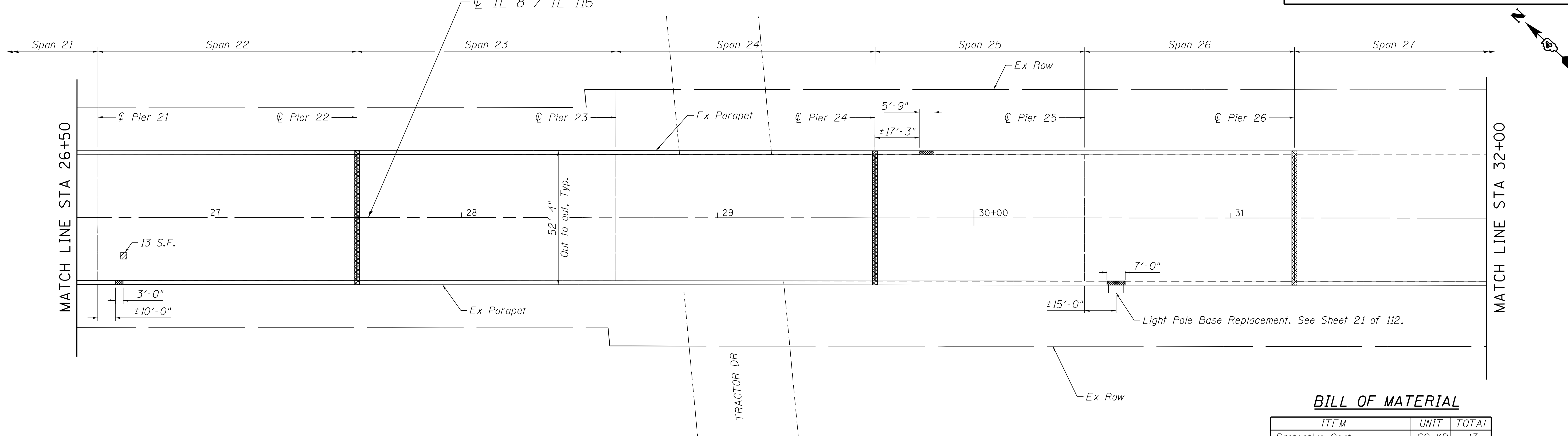
LEGEND

= Concrete Removal for Expansion Joint Replacement (See Sheet 90 of 112 for Details)

= Concrete Removal for Parapet Replacement (See Sheet 18-22 of 112 for Details.

= Deck Slab Repair (Partial)

S.F. = Square Feet



PLAN SPAN 21-27

BILL OF MATERIAL

ITEM	UNIT	TOTAL
Protective Coat	SQ YD	13
Deck Slab Repair (Partial)	SQ YD	13

(*) Peoria / Tazewell

FILE NAME : S:\Projects\2015 JOBS\15IL004-00 OEI PTB 168-17 D4 Cedar St Bridge\CADD\CADD Sheets\0900030-68A93-084-BridgeRepairs03.dgn
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QUIGG ENGINEERING INC

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PLOT DATE = 10/05/2015	CHECKED - DRB	REVISED

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

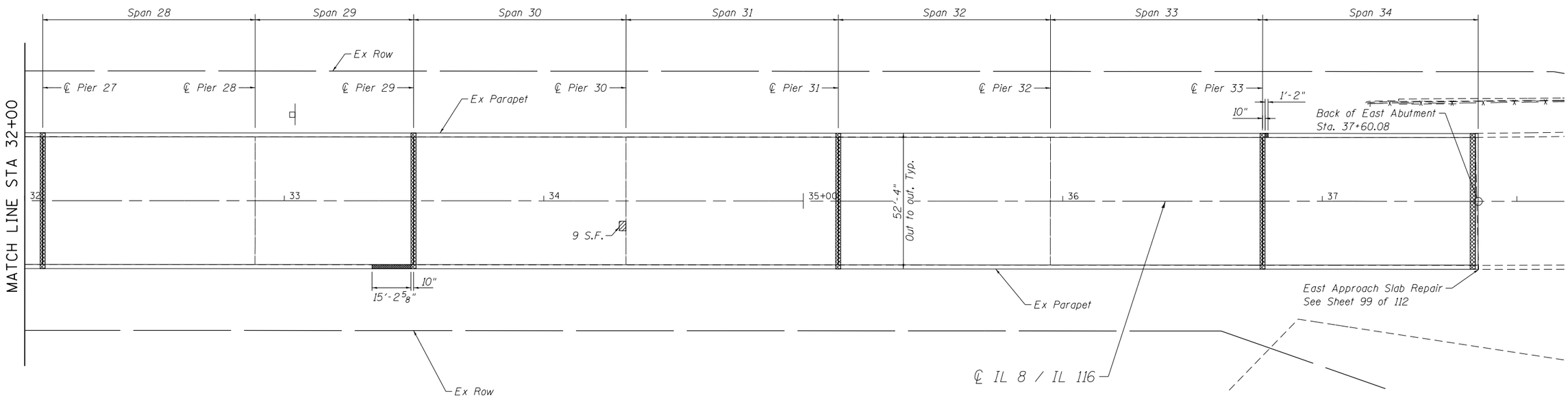
CONCRETE DECK REPAIRS – 3
S.N. 090–0030 CEDAR STREET BRIDGE OVER ILLINOIS RIVER

SHEET NO. 16 OF 112 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
669	(103B)I-7	(*)	180	84

CONTRACT NO. 68A93

ILLINOIS FED. AID PROJECT

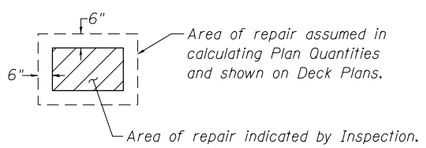


PLAN SPAN 27-34

LEGEND

- = Concrete Removal for Expansion Joint Replacement (See Sheet 90 of 112 for Details)
- = Concrete Removal for Parapet Replacement (See Sheet 18-22 of 112 for Details)
- = Deck Slab Repair (Partial)

S.F. = Square Feet



Notes:

Repair of the existing deck slab shall include but may not be limited to the areas shown. The actual area to be repaired will be determined by the Engineer at the time of construction.

Deck slab repairs shall be tined to produce grooves approximately $\frac{3}{16}$" deep and spaced at $\frac{3}{4}$". Cost included in DECK SLAB REPAIR (PARTIAL). PROTECTIVE COAT shall be applied to the top of all Deck Slab Repairs.

BILL OF MATERIAL

ITEM	UNIT	TOTAL
Protective Coat	SQ YD	1
Deck Slab Repair (Partial)	SQ YD	1

(*) Peoria / Tazewell

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QUIGG ENGINEERING INC

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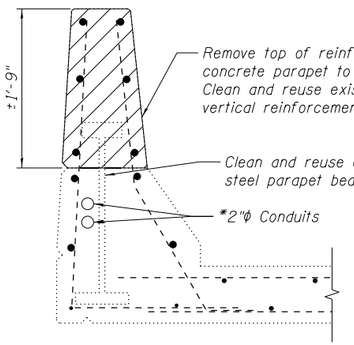
PLOT DATE = 10/05/2015	CHECKED - DRB	REVISED

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

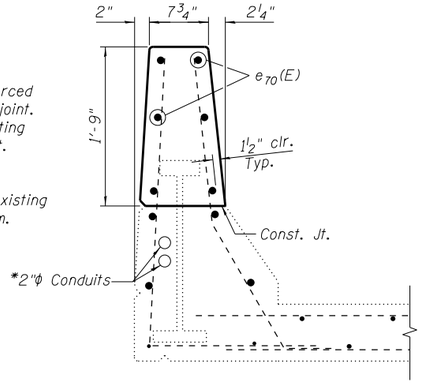
CONCRETE DECK REPAIRS – 4
S.N. 090–0030 CEDAR STREET BRIDGE OVER ILLINOIS RIVER
SHEET NO. 17 OF 112 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
669	(103B)I-7	(*)	180	85
		CONTRACT NO. 68A93		
	ILLINOIS FED. AID PROJECT			



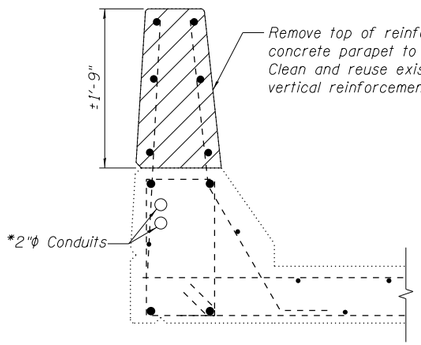
EXISTING PARAPET TOP REMOVAL

(Span 7)



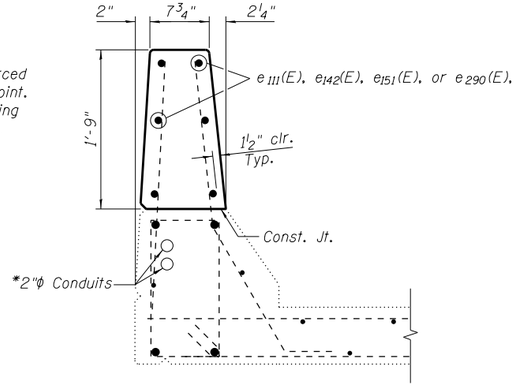
PARAPET TOP REPLACEMENT

(Span 7)



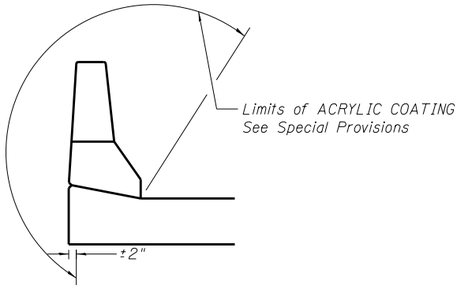
EXISTING PARAPET TOP REMOVAL

(Spans 11, 14, 15, & 29)



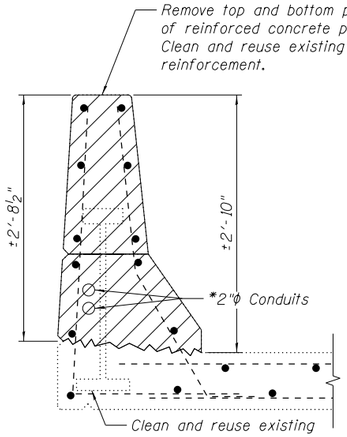
PARAPET TOP REPLACEMENT

(Spans 11, 14, 15, & 29)



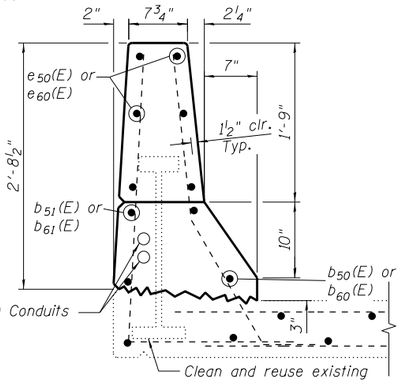
BRIDGE PARAPET ACRYLIC COATING

Sta. 0+12.08 to Sta. 37+60.08, LT and RT



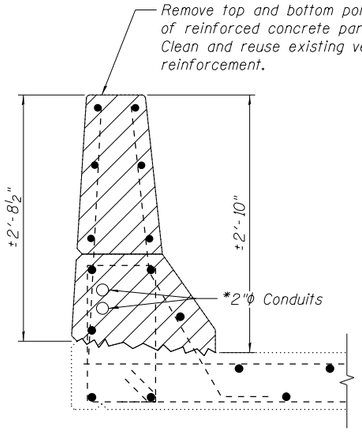
EXISTING PARAPET TOP AND BOTTOM REMOVAL

(Spans 5 & 6)



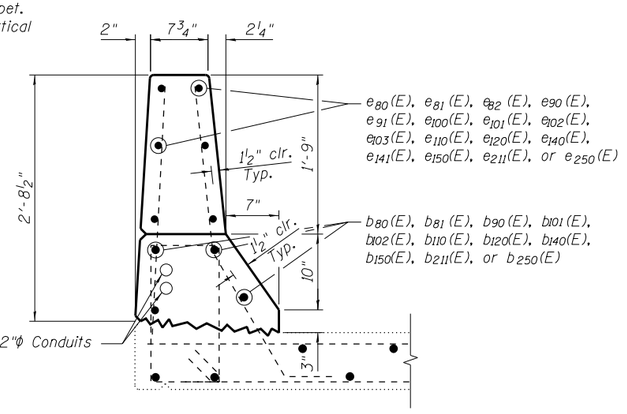
PARAPET TOP AND BOTTOM REPLACEMENT

(Spans 5 & 6)



EXISTING PARAPET TOP AND BOTTOM REMOVAL

(Spans 8, 9, 10, 11, 12, 14, 15, 18, 21, 22, 25, 29, and 34)



PARAPET TOP AND BOTTOM REPLACEMENT

(Spans 8, 9, 10, 11, 12, 14, 15, 18, 21, 22, 25, 29, and 34)

BILL OF MATERIAL

BAR	NO.	SIZE	LENGTH	SHAPE
$b_{50}(E)$	2	#5	12'-8"	——
$b_{51}(E)$	2	#8	12'-8"	——
$b_{60}(E)$	4	#5	23'-4"	——
$b_{61}(E)$	4	#8	25'-1"	——
$b_{80}(E)$	4	#9	18'-6"	——
$b_{81}(E)$	8	#9	26'-2"	——
$b_{90}(E)$	4	#9	4'-4"	——
$b_{101}(E)$	8	#9	25'-0"	——
$b_{102}(E)$	4	#9	21'-8"	——
$b_{110}(E)$	4	#9	8'-3"	——
$b_{120}(E)$	4	#9	6'-8"	——
$b_{140}(E)$	8	#9	26'-4"	——
$b_{150}(E)$	4	#9	3'-8"	——
$b_{211}(E)$	4	#9	3'-10"	——
$b_{250}(E)$	4	#9	5'-5"	——
$b_{260}(E)$	4	#9	6'-8"	——
$d_{110}(E)$	10	#6	8'-11"	⌐¬
$e_{50}(E)$	6	#4	12'-8"	——
$e_{60}(E)$	12	#4	23'-0"	——
$e_{70}(E)$	6	#4	3'-8"	——
$e_{80}(E)$	6	#4	18'-6"	——
$e_{81}(E)$	6	#4	4'-1"	——
$e_{82}(E)$	6	#4	20'-4"	——
$e_{90}(E)$	6	#4	4'-4"	——
$e_{91}(E)$	6	#4	2'-1"	——
$e_{100}(E)$	6	#4	2'-3"	——
$e_{101}(E)$	6	#4	20'-2"	——
$e_{102}(E)$	6	#4	20'-10"	——
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$e_{140}(E)$	12	#4	20'-8"	——
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$e_{142}(E)$	6	#4	7'-2"	——
$e_{150}(E)$	6	#4	3'-8"	——
$e_{151}(E)$	6	#4	3'-4"	——
$e_{211}(E)$	6	#4	3'-10"	——
$e_{250}(E)$	6	#4	5'-5"	——
$e_{260}(E)$	6	#4	6'-8"	——
$e_{290}(E)$	6	#4	15'-8"	——

ITEM	UNIT	TOTAL
Concrete Removal	CU YD	32
Concrete Superstructure	CU YD	31.2
Reinforcement Bars, Epoxy Coated	POUND	4920
Acrylic Coating	SQ YD	6108
Structural Repair of Concrete (Depth Equal to or Less than 5")	SQ FT	10

Notes:

1. Existing reinforcement shall be cleaned and incorporated into the new construction. Cost included with CONCRETE REMOVAL.
2. Any reinforcement bars that are damaged during concrete removal operations shall be repaired or replaced using an approved bar splicer or anchorage system. Cost included in CONCRETE REMOVAL.
3. Joints are numbered per span starting at the lower numbered pier and increasing to the east of the pier. Ex. Joint 3 is the third joint east of the pier.

* Contractor shall protect all electrical conduit and cable attached to or embedded in structure. Electrical service shall remain operational throughout construction.

= Concrete Removal

Minimum Bar Lap

#4 bar - 2'-7"
#5 bar - 3'-3"
#7 bar - 5'-2"
#8 bar - 6'-9"
#9 bar - 8'-7"

Work this sheet with Sheets 19-22 of 112

(*) Peoria / Tazewell

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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PARAPET REPAIRS – 1
S.N. 090–0030 CEDAR STREET BRIDGE OVER ILLINOIS RIVER
SHEET NO. 18 OF 112 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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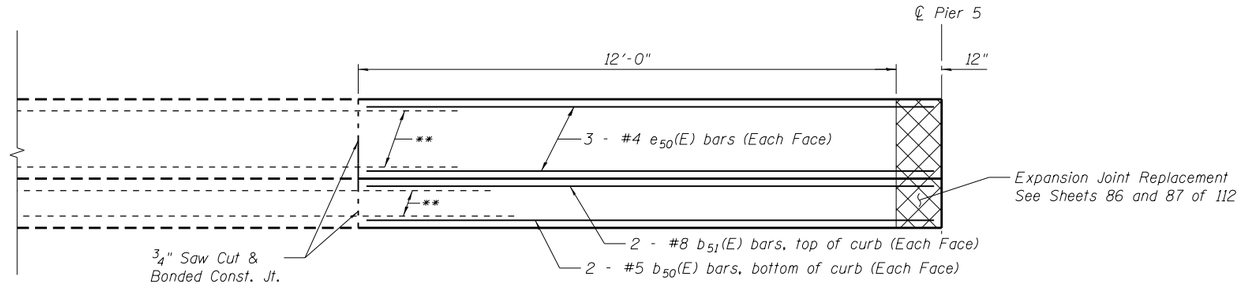
		CONTRACT NO. 68A93		
	ILLINOIS FED. AID PROJECT			

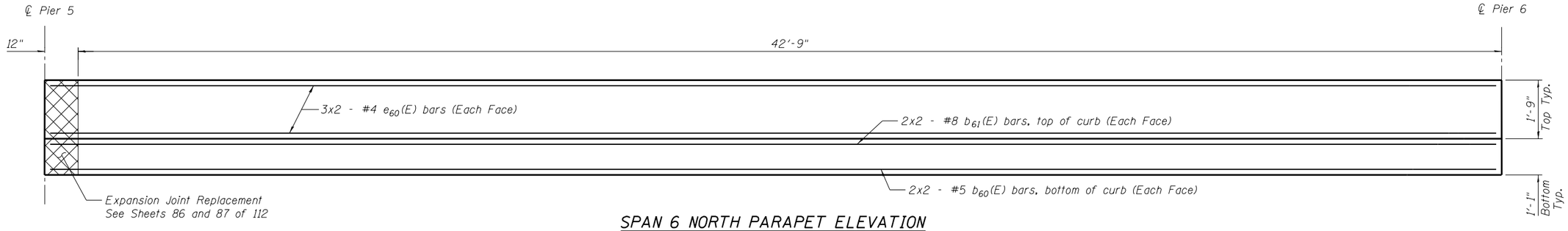


SPAN 5 NORTH PARAPET ELEVATION

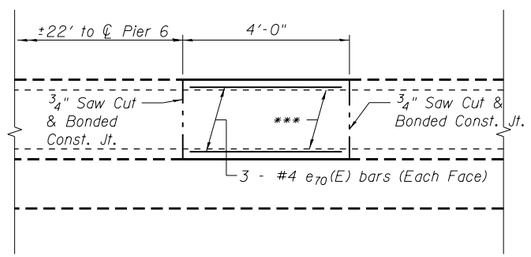
= Area to be removed & replaced during the repair of expansion joints

** Cut off existing horizontal bars one lap length from saw cut. Clean & lap with new horizontal bars.

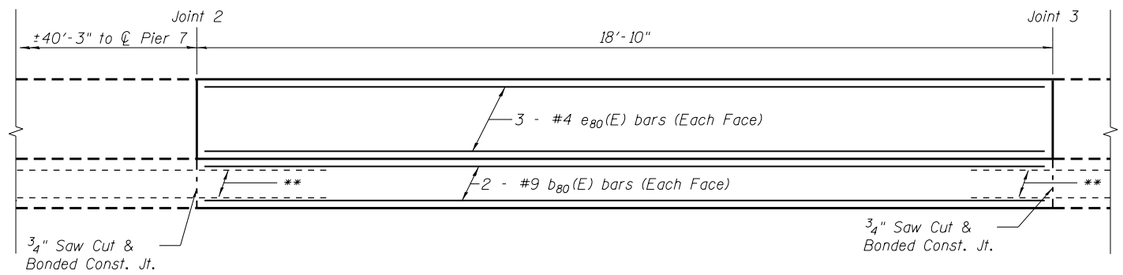
*** Clean & leave existing horizontal bars in place. Lap new Horizontal bars with existing bars.



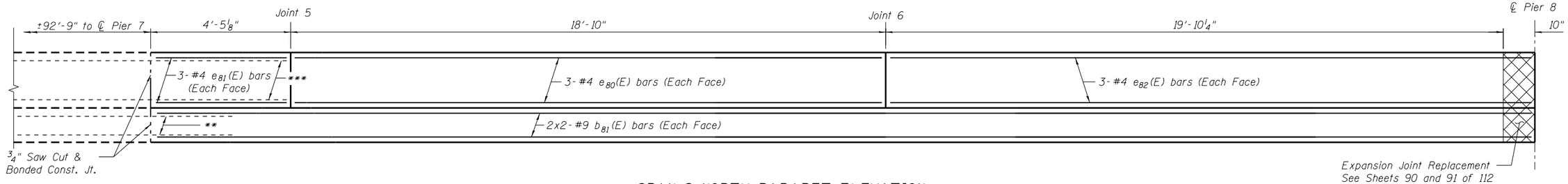
SPAN 6 NORTH PARAPET ELEVATION



SPAN 7 NORTH PARAPET ELEVATION



SPAN 8 NORTH PARAPET ELEVATION



SPAN 8 NORTH PARAPET ELEVATION

See Sheet 20 of 112 for Parapet Joint Details Work this sheet with Sheet 18 of 112

(*) Peoria / Tazewell

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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PARAPET REPAIRS – 2
S.N. 090–0030 CEDAR STREET BRIDGE OVER ILLINOIS RIVER
SHEET NO. 19 OF 112 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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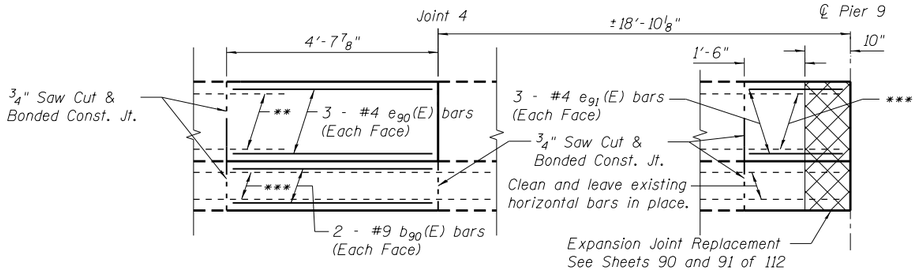
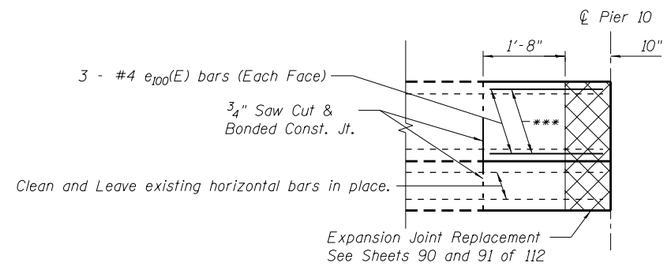
		CONTRACT NO. 68A93		
	ILLINOIS FED. AID PROJECT			



SPAN 9 NORTH PARAPET ELEVATIONS



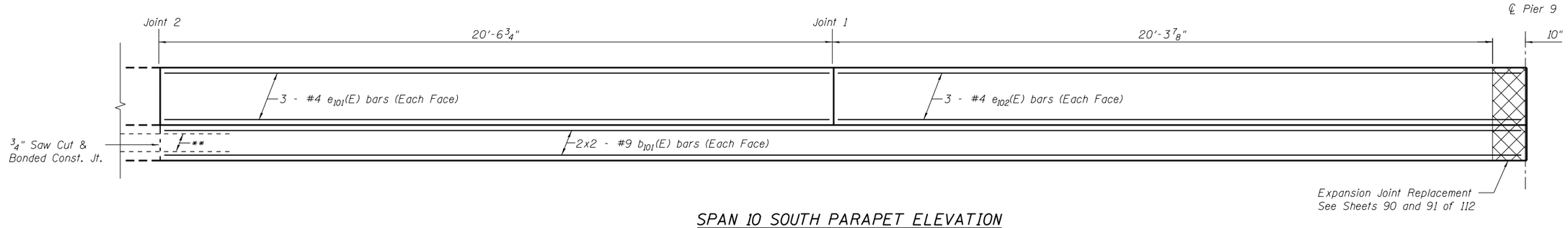
SPAN 10 NORTH PARAPET ELEVATION

= Area to be removed & replaced during the repair of expansion joints.

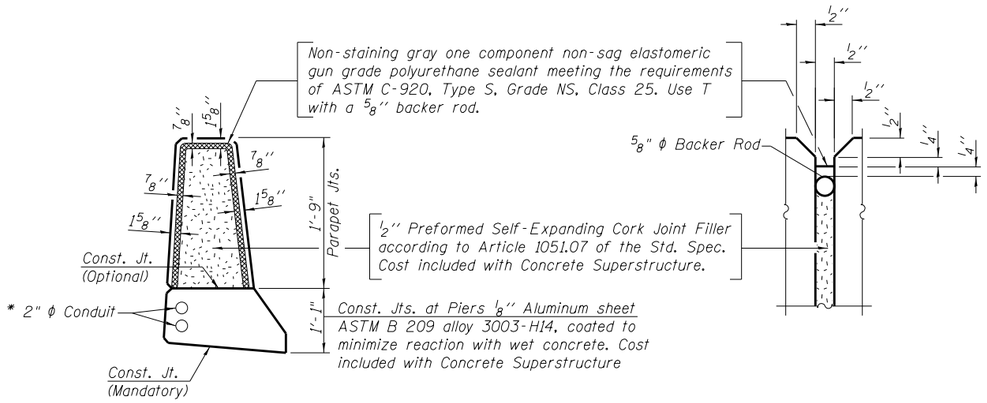
* Contractor shall protect all electrical conduit and cable attached to or embedded in structure. Electrical service shall remain operational throughout construction.

** Cut off existing horizontal bars one lap length from saw cut. Clean & lap with new horizontal bars.

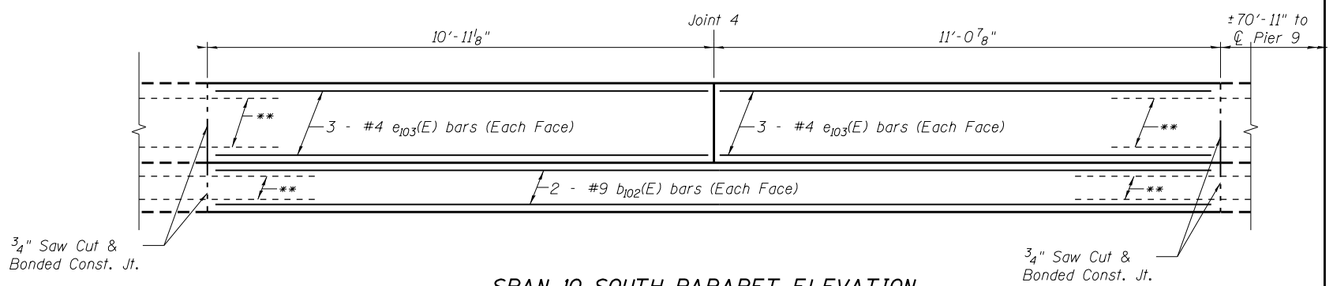
*** Clean and leave existing horizontal bars in place. Lap new horizontal bars with existing bars.



SPAN 10 SOUTH PARAPET ELEVATION



PARAPET JOINT DETAILS



SPAN 10 SOUTH PARAPET ELEVATION

Work this sheet with Sheet 18 of 112

(•) Peoria / Tazewell

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	PLOT DATE = 10/05/2015	CHECKED - DRB	REVISED

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PARAPET REPAIRS – 3
S.N. 090–0030 CEDAR STREET BRIDGE OVER ILLINOIS RIVER
SHEET NO. 20 OF 112 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
669	(103B)I-7	(•)	180	88
		CONTRACT NO. 68A93		
	ILLINOIS FED. AID PROJECT			

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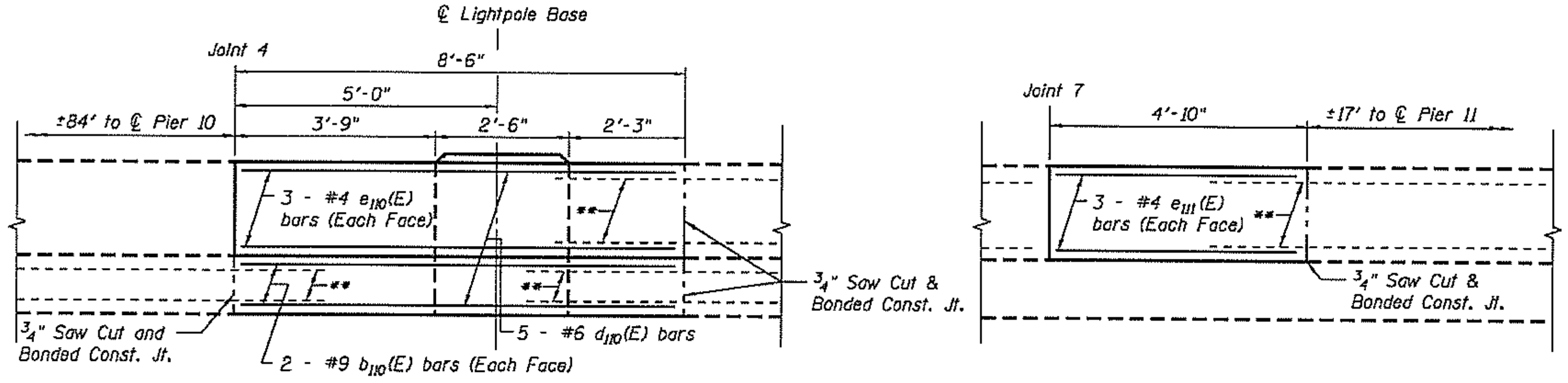
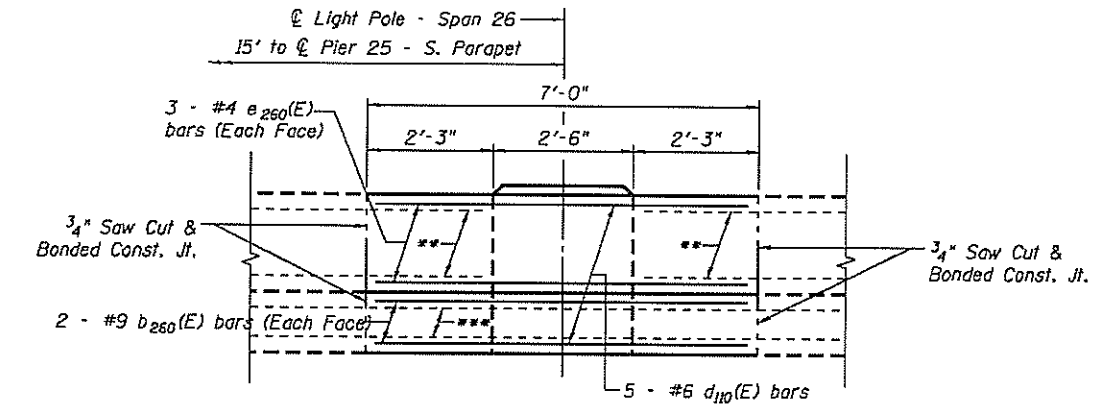
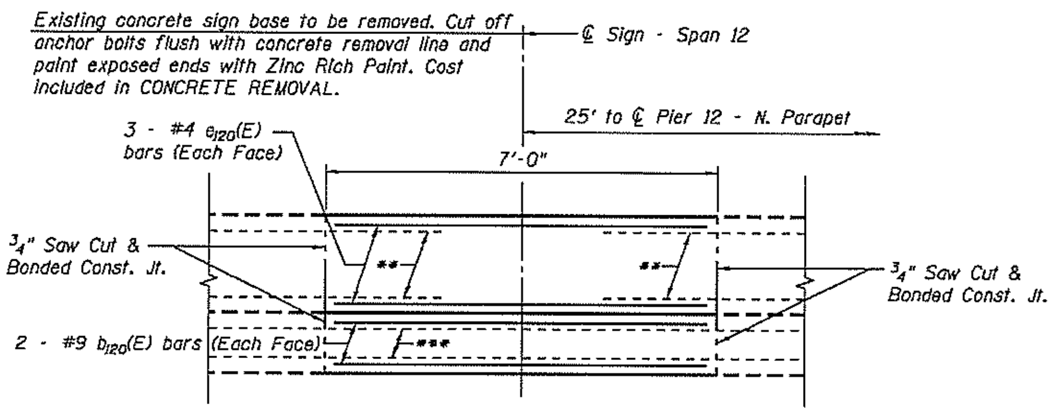


SPAN 11 NORTH PARAPET ELEVATIONS

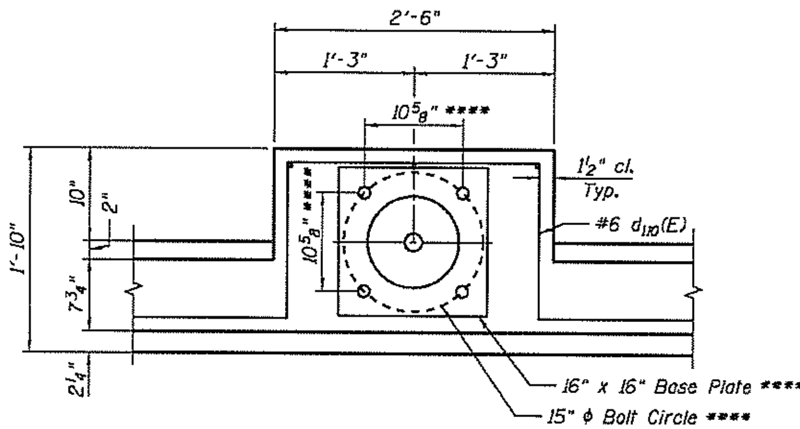


SPAN 26 SOUTH PARAPET ELEVATION



SPAN 12 NORTH PARAPET ELEVATION

(See Parapet Top and Bottom Replacement Sheet 18 of 112)



TOP VIEW

Notes:

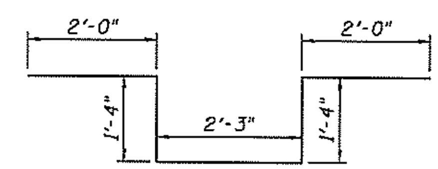
1. Grout mixture shall consist of 1 part sand, 1 part cement, and 1 part chips (pea gravel). The grout shall contain water for a 1" slump, cost included in CONCRETE SUPERSTRUCTURE.
2. ~~10" ϕ Aluminum Light Pole shall be removed during construction and stored. Reinstall light pole after construction. Cost included in CONCRETE SUPERSTRUCTURE.~~

* ~~Contractor shall protect all electrical conduit and cable attached to or embedded in structure. Electrical service shall remain operational throughout construction.~~

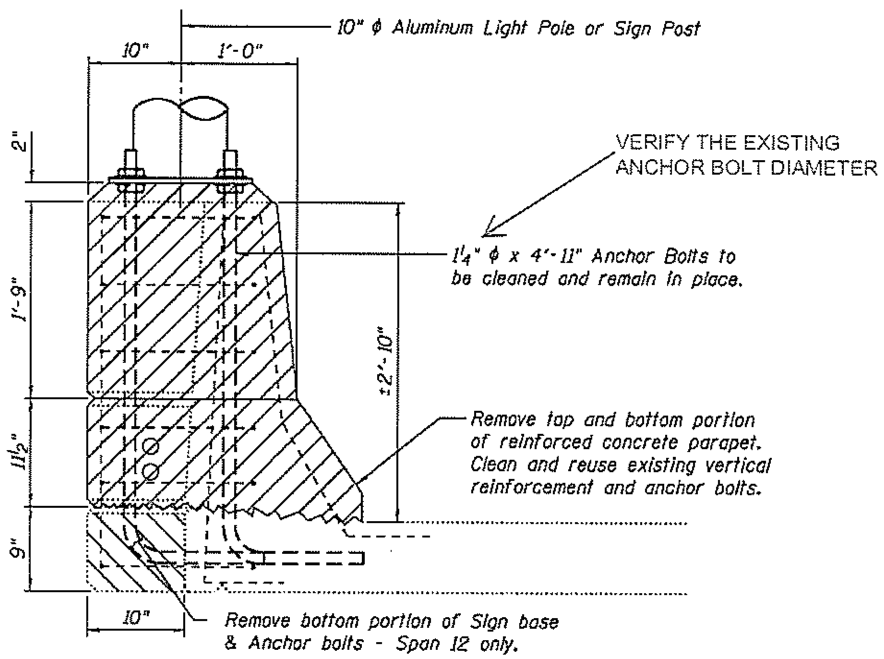
** Cut off existing horizontal bars one lap length from saw cut. Clean and lap with new horizontal bars.

*** Clean and leave existing horizontal bars in place. Lap new horizontal bars with existing bars.

**** Contractor shall verify dimensions in field.

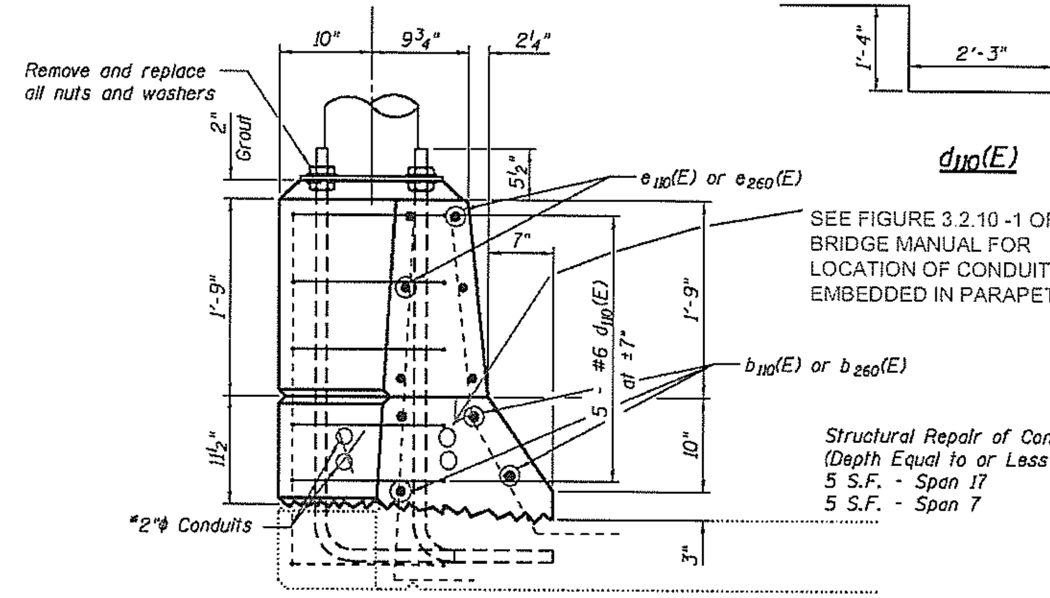


d_{110}(E)



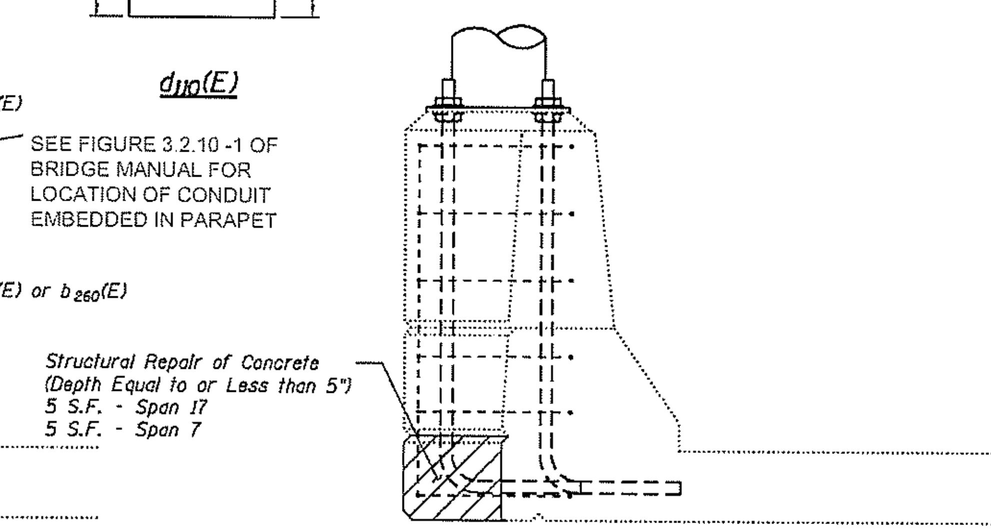
PARAPET REMOVAL AT LIGHT POLE AND SIGN POST

(Typical Spans 11, 12, and 26)



PARAPET REPLACEMENT AT LIGHT POLE AND SIGN POST

(Typical Spans 11 and 26)



BOTTOM OF PARAPET REPAIR

Span 7 - N. Parapet, 5' E. of Pier 6
Span 17 - S. Parapet, 80' E. of Pier 16

See Sheet 20 of 112 for Parapet Joint Details

Work this sheet with Sheet 18 of 112

(*) Peoria / Tazewell

QEI QUIGG ENGINEERING INC	USER NAME = rgoertz	DESIGNED - CFS	REVISED
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	PLOT DATE = 10/05/2015	CHECKED - DRB	REVISED

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PARAPET REPAIRS – 4
CEDAR STREET BRIDGE
SHEET NO. 21 OF 112 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
669	(103B)1-7	(*)	180	89
		CONTRACT NO. 68A93		
		ILLINOIS FED. AID PROJECT		

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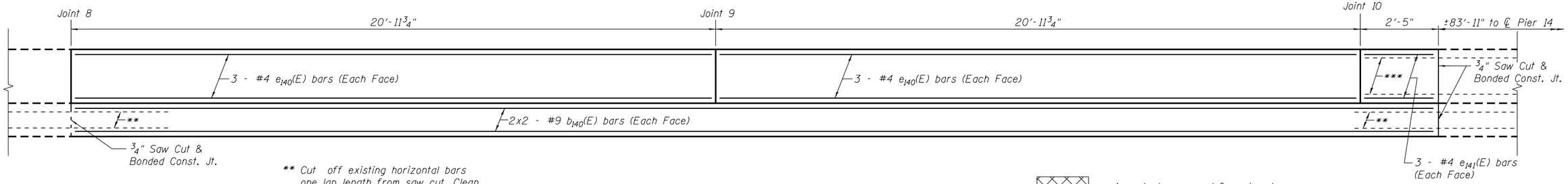
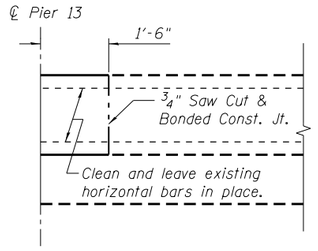


** Cut off existing horizontal bars one lap length from saw cut. Clean and lap with new horizontal bars.

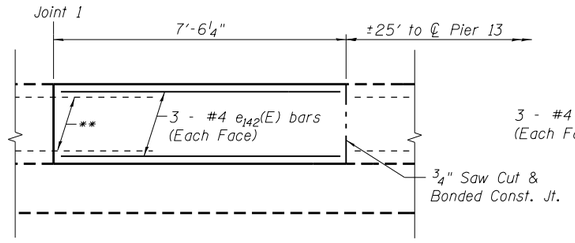
*** Clean and leave existing horizontal bars in place. Lap new horizontal bars with existing bars.

SPAN 14 NORTH PARAPET ELEVATION

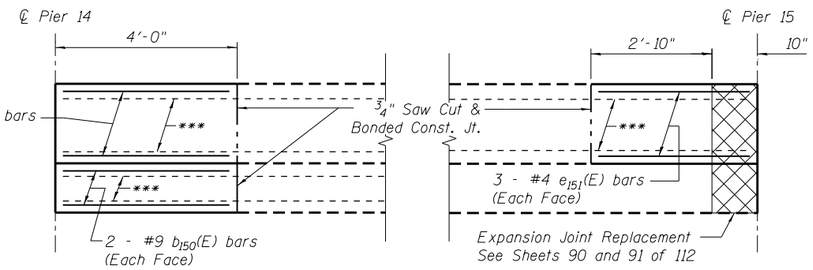
= Area to be removed & replaced during the repair of expansion joints.



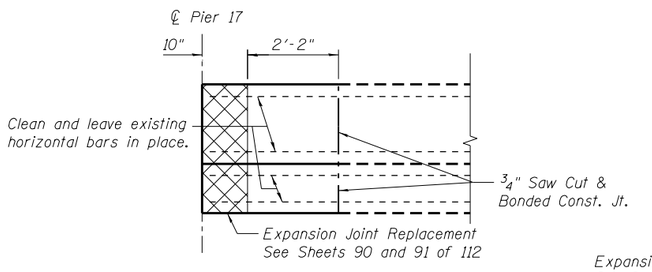
SPAN 14 NORTH PARAPET ELEVATION



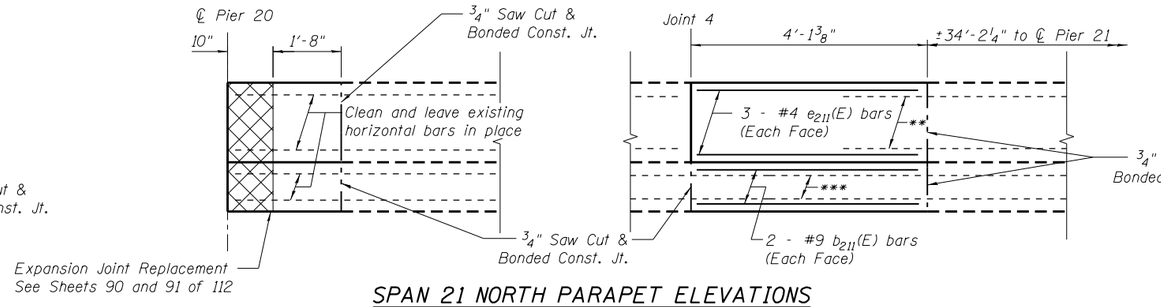
SPAN 14 SOUTH PARAPET ELEVATION



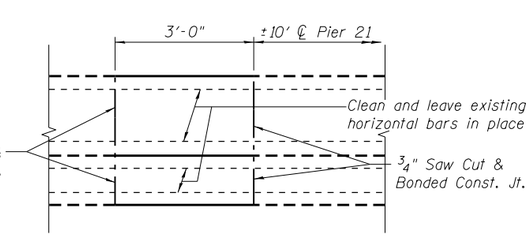
SPAN 15 NORTH PARAPET ELEVATION



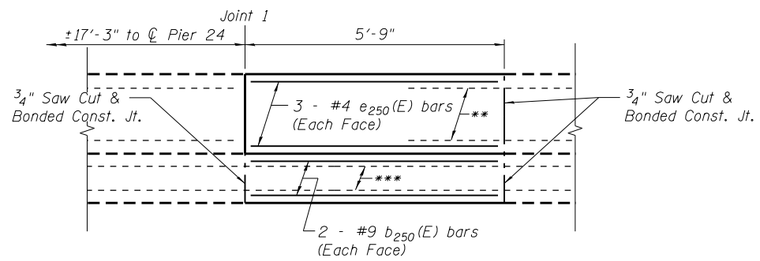
SPAN 18 NORTH PARAPET ELEVATION



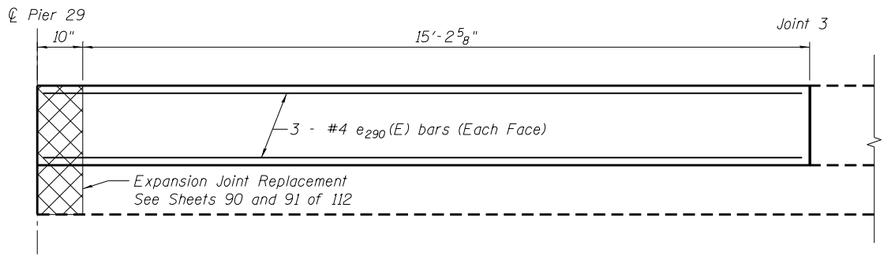
SPAN 21 NORTH PARAPET ELEVATIONS



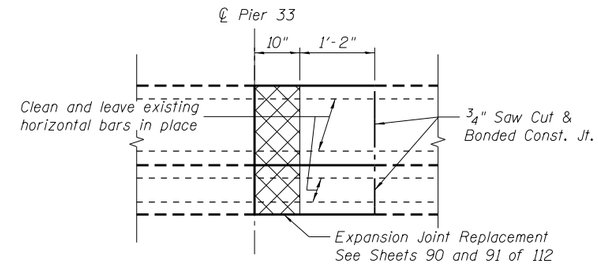
SPAN 22 SOUTH PARAPET ELEVATION



SPAN 25 NORTH PARAPET ELEVATION



SPAN 29 SOUTH PARAPET ELEVATION



SPAN 34 NORTH PARAPET ELEVATION

Work this sheet with Sheet 18 of 112

See Sheet 20 of 112 for Parapet Joint Details

(•) Peoria / Tazewell

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QUIGG ENGINEERING INC

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PARAPET REPAIRS – 5
S.N. 090–0030 CEDAR STREET BRIDGE OVER ILLINOIS RIVER
SHEET NO. 22 OF 112 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
669	(103B)I-7	(•)	180	90
		CONTRACT NO. 68A93		
	ILLINOIS FED. AID PROJECT			

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GUSSET REPAIR GENERAL NOTES

Repair plates, fill plates, pin plates, and angles may require field adjustment to fit actual as-built conditions. Cost included in Structural Steel Repair.

Repair plates have been sized to provide 1½" minimum edge distance, unless otherwise noted, per available existing plan information. Dimensions shall be field verified to confirm minimum edge distance is met.

Bolt layout depicted is approximate. Bolts shall be spaced with a minimum edge distance of 1½" and a maximum edge distance of 5". Along the edge of the plate/angle the bolts shall be spaced at 2⅝" minimum to 6½" maximum centers to meet sealing requirements. If the number of fasteners provided is different than the number depicted on the plan details, the layout shall be submitted to the Engineer for approval prior to installation.

The as-designed repair details do not require temporary support for floorbeams and structural bracing members. If additional fasteners need to be removed beyond those shown, the Contractor shall submit a procedure for review and approval by the Engineer. If necessary, the Contractor shall provide temporary support for floorbeams and/or structural bracing members due to the additional fastener removal.

Trimming of repair plates, fill plates, and angles to accommodate existing fasteners not used in the repair shall occur by saw cutting or grinding. Minimum radius of 1" shall be maintained. Flame-cutting is not permitted. All cut edges shall be ground smooth to an ANSI 250 finish.

Walkway, drainage and any other miscellaneous attachments to the gusset plates shall be removed, temporarily supported, modified to fit the repaired condition, and reinstalled after gusset plate repairs have been completed. Installation methods shall be approved by the Engineer. Cost of removal, supporting, trimming, and reinstalling all members necessary to complete the work as shown in the plans shall be included in Structural Steel Repair.

Sealant shall be compatible with the proposed paint system and shall be submitted to the Engineer for approval prior to use (see project general notes, Sheet 3 of 112). All costs associated with the installation of the sealant shall be included in Structural Steel Repair.

GUSSET REPAIR PROCEDURES

Provided the Contractor complies with the load restrictions assumed during design (see Gusset Repair Load Restrictions section this sheet), there is no limit to the number of joints that can be simultaneously repaired.

The Contractor will be allowed to remove rivets and replace with temporary high-strength bolts in advance of repair plate and/or angle installation. Flame cutting for rivet removal is not permitted.

Contractor shall install repair plates, fill plates, and angles 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.

For each repair plate or angle, the Contractor may remove all rivets to be replaced at the same time to facilitate fit-up and match-marking of holes.

The Contractor shall complete the installation of individual plates or angles at the end of each day. The completion of the installation of all plates and angles within a truss joint at the end of each day is not required.

Upon completion of repairs and coating touch-up, joint sealant shall be installed along perimeter of plys between existing steel and the new steel angles and/or plates per the detail provided and as directed by the Engineer.

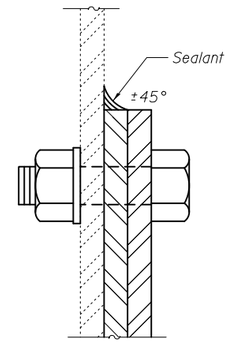
GUSSET REPAIR LOAD RESTRICTIONS

During gusset repairs, vehicular live load shall be restricted to the two lanes farthest from the gusset plate.

Construction loading assumed for design consisted of the temporary concrete barrier and a construction load of 20 psf in the 20-foot adjacent work zone. The 20 psf construction load was positioned or applied in order to maximize the load for each individual truss member.

As-designed load capacity ratings for the as-repaired condition considered the construction loads as locked-in stresses for the original material. Note that vehicular live load stresses from the far two lanes were not considered locked-in due to the transitory nature of this loading.

The Contractor shall confirm that the combined weight of construction vehicles, equipment, work platforms and stockpiled materials comply with the noted design assumptions at all times during gusset plate repairs. The Contractor shall submit construction weights and sequencing to the Engineer for approval.



DETAIL 1 - SEALANT

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PLOT DATE = 10/05/2015	CHECKED - RLM	REVISED	

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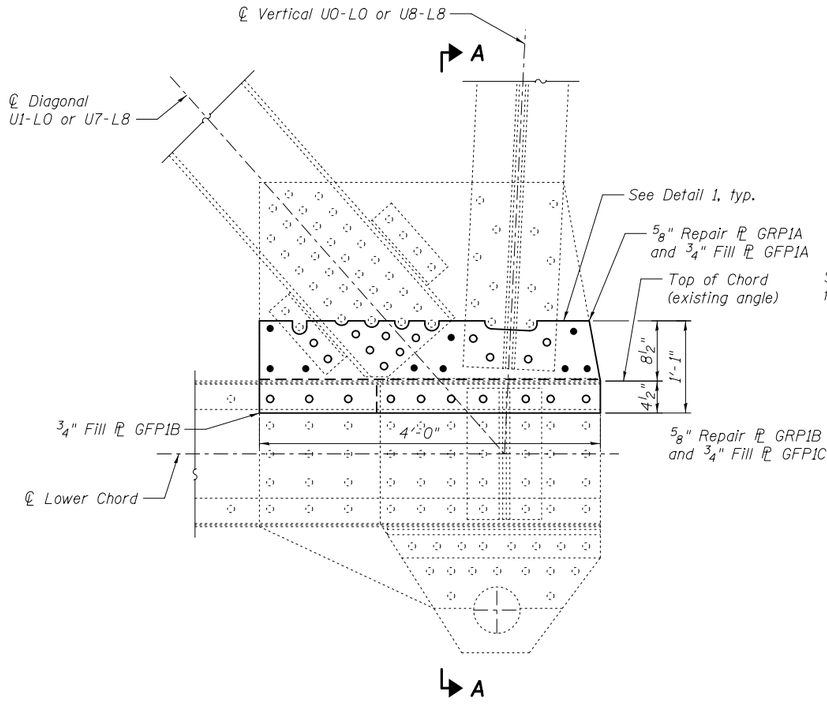
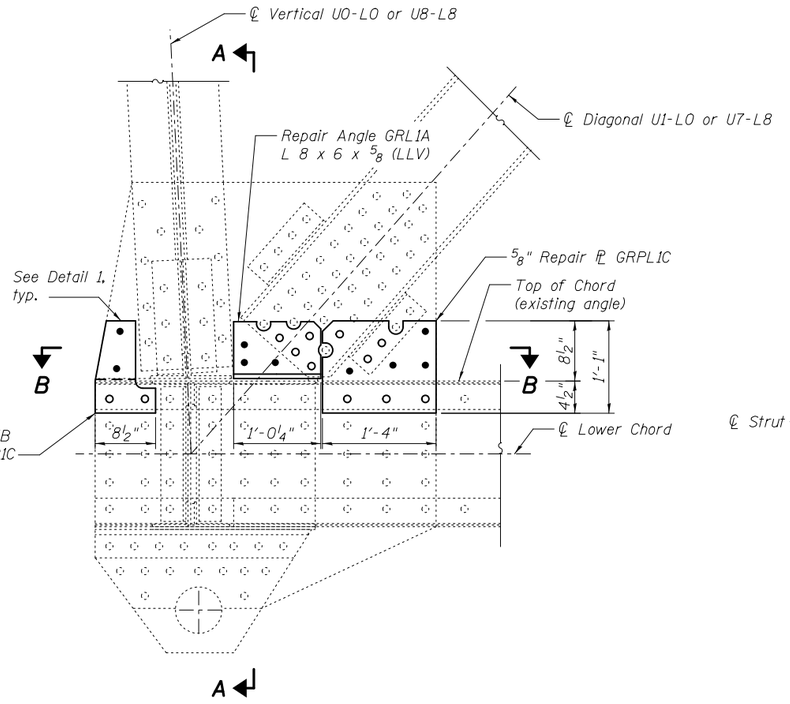
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

GUSSET PLATE REPAIRS – GENERAL NOTES AND PROCEDURES
S.N. 090-0030 CEDAR STREET BRIDGE OVER ILLINOIS RIVER
SHEET NO. 23 OF 112 SHEETS

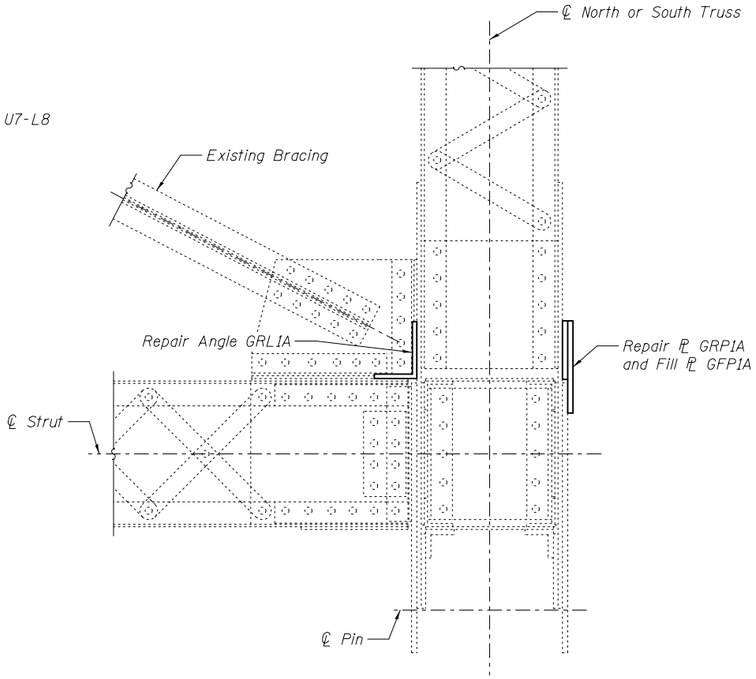
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
669	(103B)I-7	PEORIA/TAZEWELL	180	91
			CONTRACT NO. 68A93	
	ILLINOIS	FED. AID PROJECT		



OUTSIDE ELEVATION



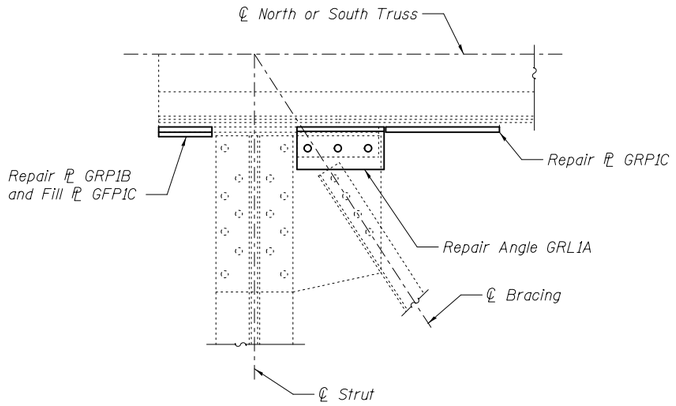
INSIDE ELEVATION



SECTION A-A

GUSSET PLATE L0 AND L8

Field cut/cope new materials to accommodate existing fasteners not used in repair, as required.



SECTION B-B

REPAIR LOCATIONS

Span	Joint	Truss	Inner ℄	Outer ℄
10	L8	North	1	1
10	L8	South	1	1
12	L8	South	1	1
16	L0	North	1	1
17	L0	North	1	1
17	L0	South	1	1

LEGEND

- ◌ Existing fastener to remain
- ● New 7/8" ϕ A325 bolt in new 15/16" ϕ hole (shop or field drilled)
- ○ Replace existing fastener with new 7/8" ϕ A325 bolt in existing hole. Holes in new material shall be field drilled using existing members as a template.

Notes:

For gusset repair general notes and procedures, see Sheet 23 of 112.

The Contractor shall field verify existing conditions, including gusset plates, connection plates, connection angles, miscellaneous steel and layout of the fastener holes prior to ordering new materials.

For Detail 1 (Sealant), see Sheet 23 of 112.

BILL OF MATERIAL

Item	Unit	Total
Structural Steel Repair	Pound	2,160

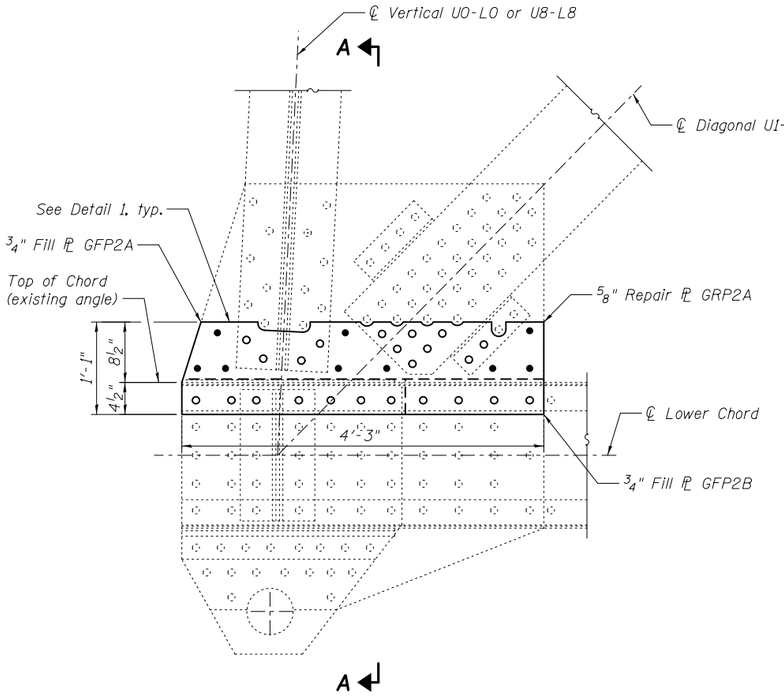
MODJESKI and MASTERS
Experience great bridges.

USER NAME =	DESIGNED - ZWE	REVISED
	CHECKED - YSS	REVISED
PLOT SCALE =	DRAWN - PRC	REVISED
PLOT DATE = 10/05/2015	CHECKED - RLM	REVISED

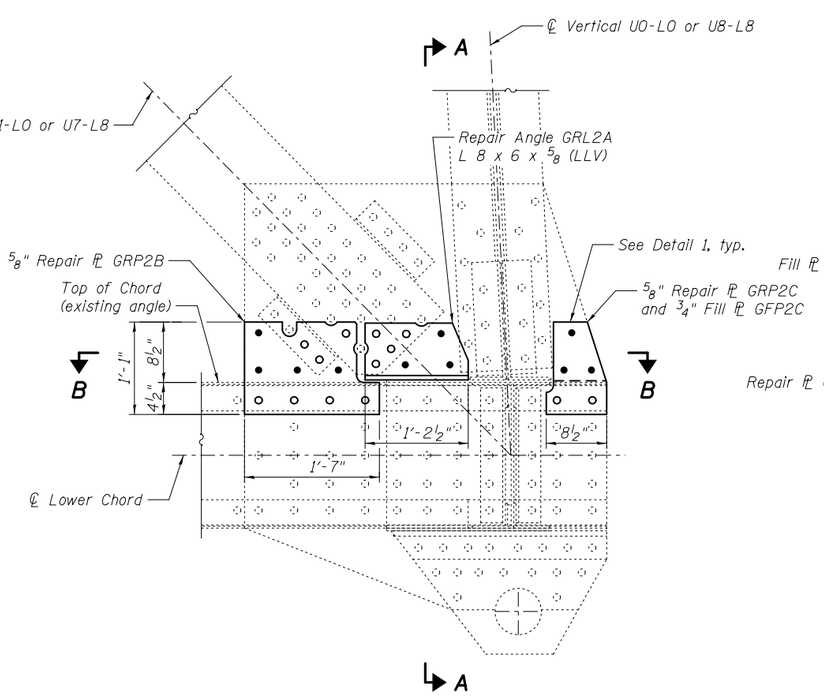
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

GUSSET PLATE REPAIRS – 1
S.N. 090–0030 CEDAR STREET BRIDGE OVER ILLINOIS RIVER
SHEET NO. 24 OF 112 SHEETS

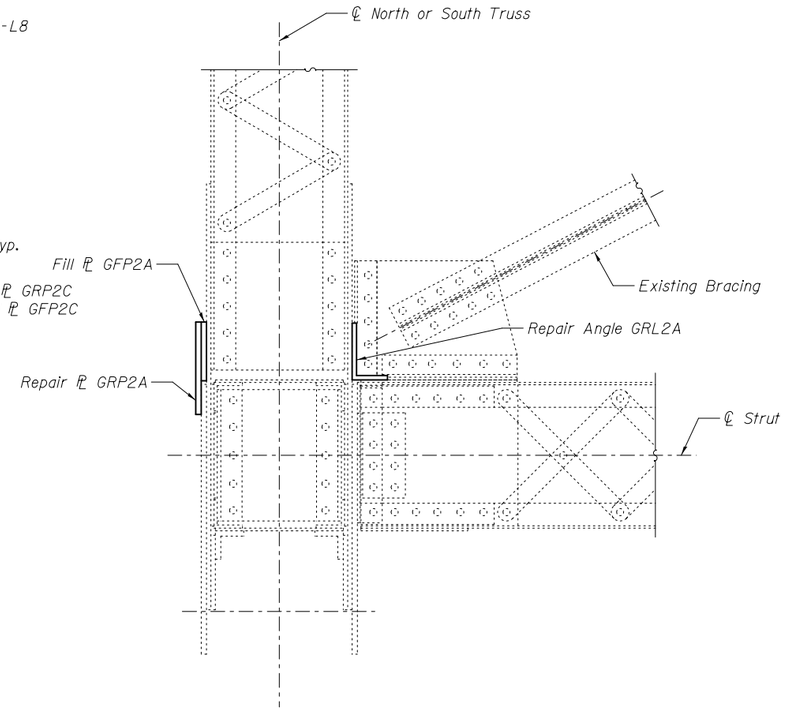
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
669	(103B)I-7	PEORIA/TAZEWELL	180	92
		CONTRACT NO. 68A93		
	ILLINOIS	FED. AID PROJECT		



OUTSIDE ELEVATION



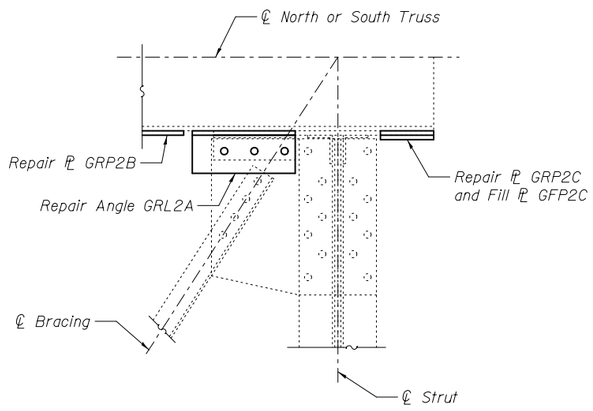
INSIDE ELEVATION



SECTION A-A

GUSSET PLATE L0 AND L8

Field cut/cope new materials to accommodate existing fasteners not used in repair, as required.



SECTION B-B

REPAIR LOCATIONS

Span	Joint	Truss	Inner ℄	Outer ℄
11	L0	North	1	1
11	L0	South	1	1
12	L0	South	1	1
16	L8	North	1	1
16	L8	South	N/A	1
17	L8	South	1	1

LEGEND

- ⁘ Existing fastener to remain
- ● New 7/8" ϕ A325 bolt in new 15/16" ϕ hole (shop or field drilled)
- ○ Replace existing fastener with new 7/8" ϕ A325 bolt in existing hole. Holes in new material shall be field drilled using existing members as a template.

Notes:

For gusset repair general notes and procedures, see Sheet 23 of 112.

The Contractor shall field verify existing conditions, including gusset plates, connection plates, connection angles, miscellaneous steel and layout of the fastener holes prior to ordering new materials.

For Detail 1 (Sealant), see Sheet 23 of 112.

BILL OF MATERIAL

Item	Unit	Total
Structural Steel Repair	Pound	2230

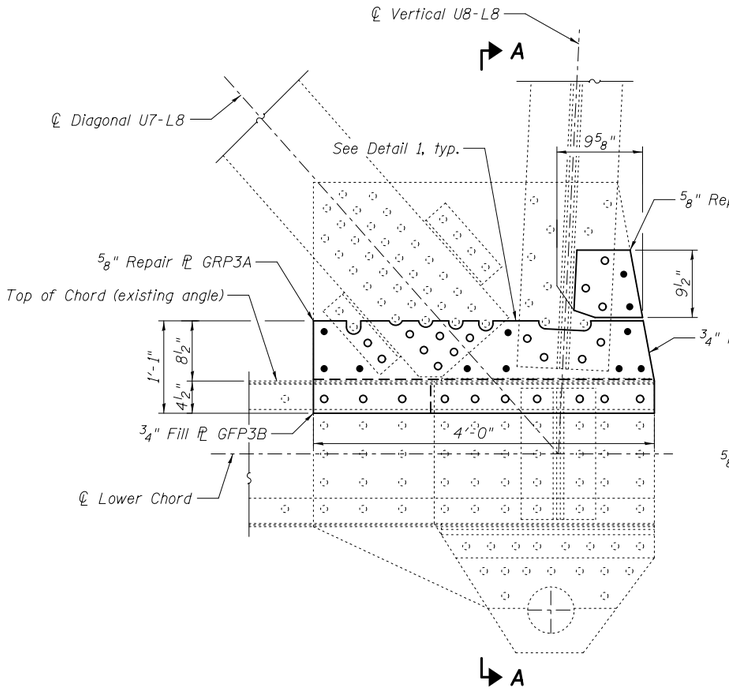
MODJESKI and MASTERS
Experience great bridges.

USER NAME =	DESIGNED - ZWE	REVISED
	CHECKED - YSS	REVISED
PLOT SCALE =	DRAWN - PRC	REVISED
PLOT DATE = 10/05/2015	CHECKED - RLM	REVISED

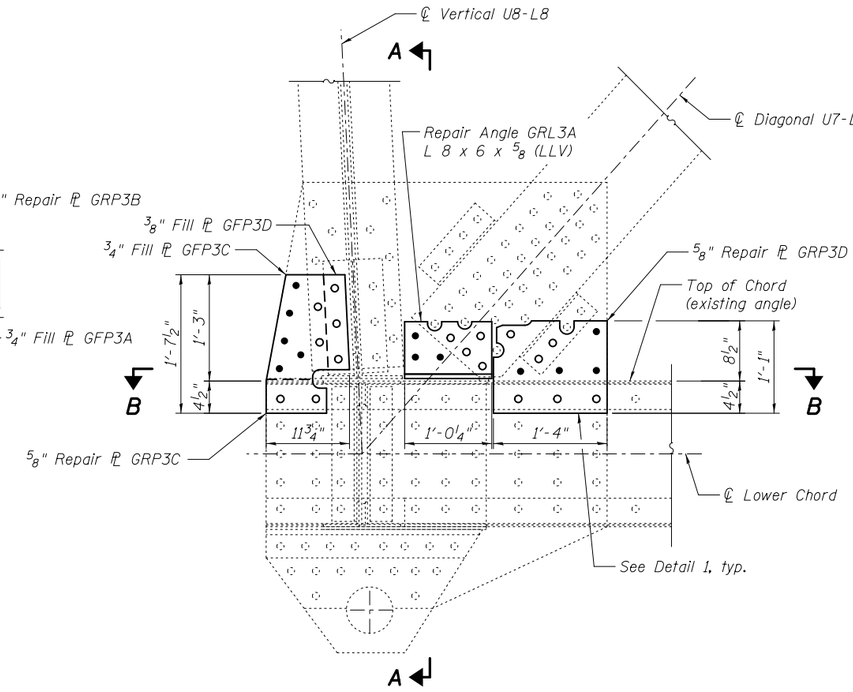
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

GUSSET PLATE REPAIRS – 2
S.N. 090–0030 CEDAR STREET BRIDGE OVER ILLINOIS RIVER
SHEET NO. 25 OF 112 SHEETS

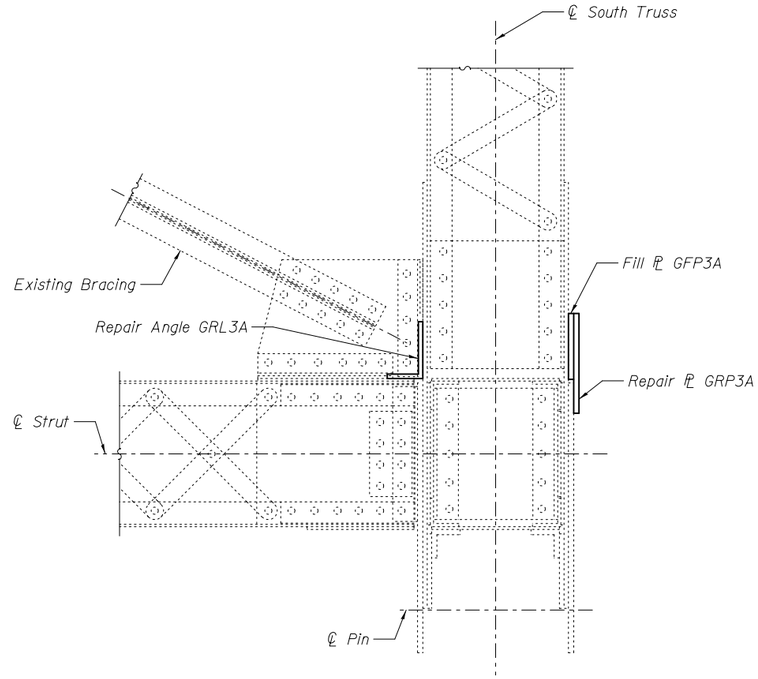
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
669	(103B)I-7	PEORIA/TAZEWELL	180	93
		CONTRACT NO. 68A93		
	ILLINOIS	FED. AID PROJECT		



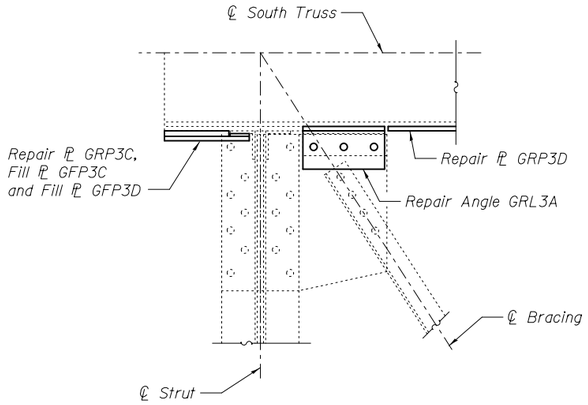
OUTSIDE ELEVATION



INSIDE ELEVATION



SECTION A-A



SECTION B-B

GUSSET PLATE L8S

Field cut/cope new materials to accommodate existing fasteners not used in repair, as required.

REPAIR LOCATIONS

Span	Joint	Truss	Inner ℄	Outer ℄
11	L8	South	1*	1

* *Remove existing repair angle. Reuse existing holes and modify proposed fastener layout to accommodate additional fasteners in accordance with gusset repair procedures.*

LEGEND

- ◌ Existing fastener to remain
- ● New 7/8" ϕ A325 bolt in new 15/16" ϕ hole (shop or field drilled)
- ○ Replace existing fastener with new 7/8" ϕ A325 bolt in existing hole. Holes in new material shall be field drilled using existing members as a template.

Notes:

For gusset repair general notes and procedures, see Sheet 23 of 112.

The Contractor shall field verify existing conditions, including gusset plates, connection plates, connection angles, miscellaneous steel and layout of the fastener holes prior to ordering new materials.

For Detail 1 (Sealant), see Sheet 23 of 112.

BILL OF MATERIAL

Item	Unit	Total
Structural Steel Repair	Pound	430

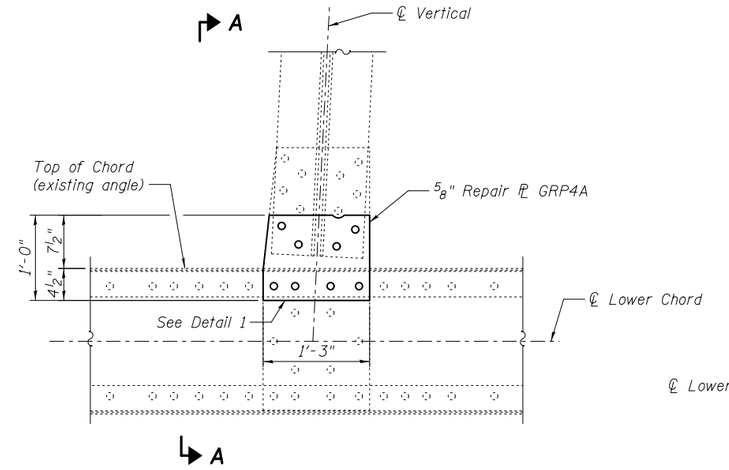
MODJESKI and MASTERS
Experience great bridges.

USER NAME =	DESIGNED - ZWE	REVISED
	CHECKED - YSS	REVISED
PLOT SCALE =	DRAWN - PRC	REVISED
PLOT DATE = 10/05/2015	CHECKED - RLM	REVISED

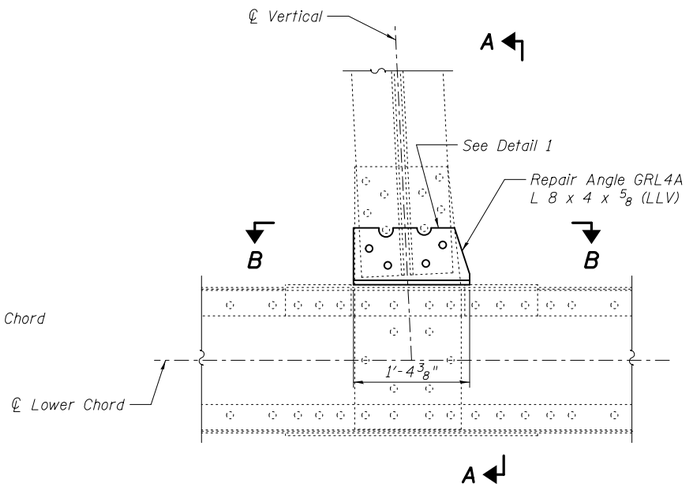
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

GUSSET PLATE REPAIRS – 3
S.N. 090–0030 CEDAR STREET BRIDGE OVER ILLINOIS RIVER
SHEET NO. 26 OF 112 SHEETS

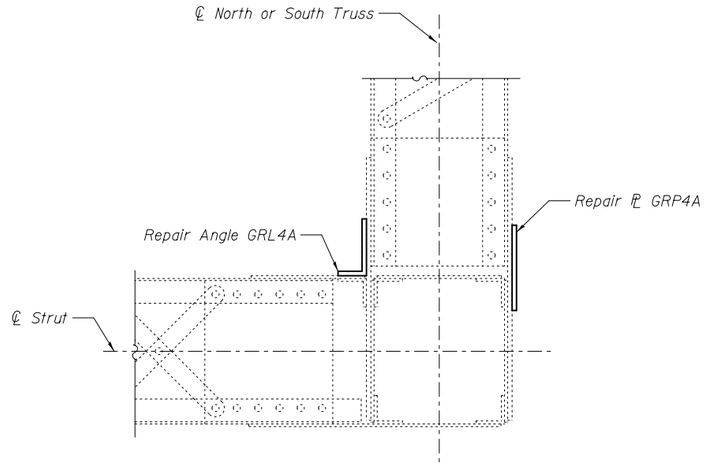
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
669	(103B)I-7	PEORIA/TAZEWELL	180	94
		CONTRACT NO. 68A93		
	ILLINOIS	FED. AID PROJECT		



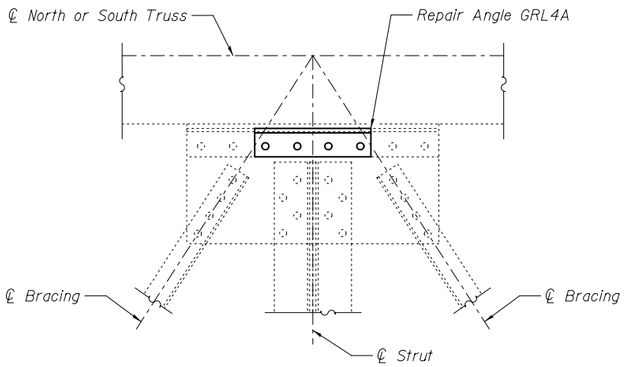
OUTSIDE ELEVATION



INSIDE ELEVATION



SECTION A-A



SECTION B-B

GUSSET PLATE L1 AND L7
GUSSET PLATE L3 AND L5

Field cut/cope new materials to accommodate existing fasteners not used in repair, as required.

REPAIR LOCATIONS

Span	Joint	Truss	Inner PL	Outer PL
10	L7	South	1	N/A
11	L1	South	1	1
11	L3	North	1	1
11	L3	South	1	N/A
11	L5	North	1	N/A
11	L7	South	1	1
12	L3	South	1	1
12	L5	South	N/A	1

Span	Joint	Truss	Inner PL	Outer PL
12	L7	North	1	1
12	L7	South	1	1
16	L1	North	1	N/A
16	L3	North	1	N/A
16	L3	South	1	N/A
16	L5	North	1	N/A
16	L7	South	1	N/A
17	L7	South	1	N/A

LEGEND

- Existing fastener to remain
- New 7/8" ϕ A325 bolt in new 15/16" ϕ hole (shop or field drilled)
- Replace existing fastener with new 7/8" ϕ A325 bolt in existing hole. Holes in new material shall be field drilled using existing members as a template.

Notes:

For gusset repair general notes and procedures, see Sheet 23 of 112.

The Contractor shall field verify existing conditions, including gusset plates, connection plates, connection angles, miscellaneous steel and layout of the fastener holes prior to ordering new materials.

For Detail 1 (Sealant), see Sheet 23 of 112.

BILL OF MATERIAL

Item	Unit	Total
Structural Steel Repair	Pound	870

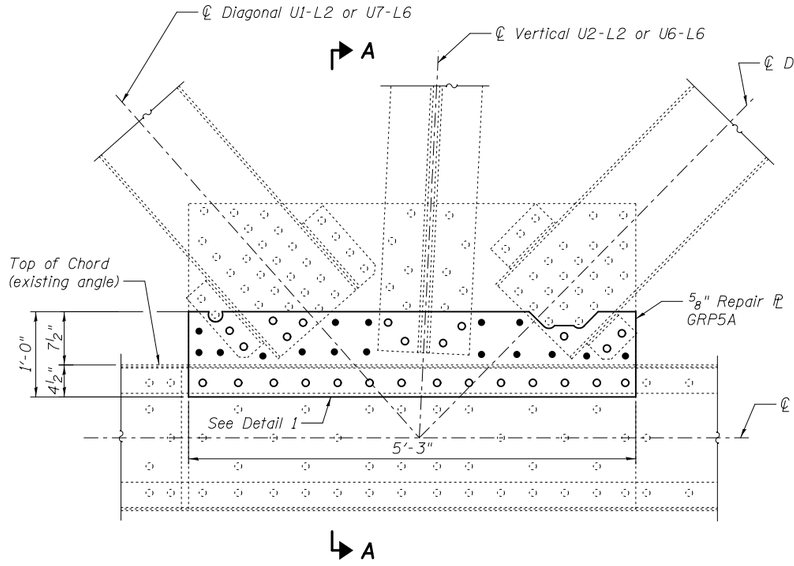
MODJESKI and MASTERS
Experience great bridges.

USER NAME =	DESIGNED - ZWE	REVISED
	CHECKED - YSS	REVISED
PLOT SCALE =	DRAWN - PRC	REVISED
PLOT DATE = 10/05/2015	CHECKED - RLM	REVISED

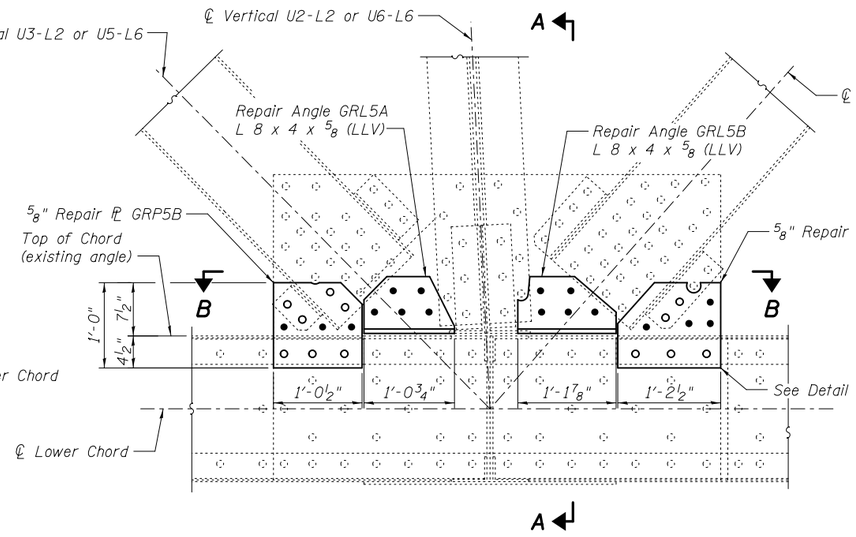
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

GUSSET PLATE REPAIRS – 4
S.N. 090–0030 CEDAR STREET BRIDGE OVER ILLINOIS RIVER
SHEET NO. 27 OF 112 SHEETS

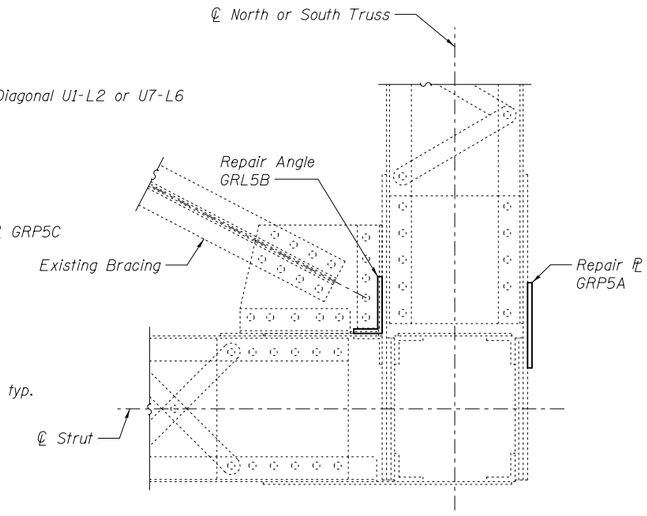
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
669	(103B)I-7	PEORIA/TAZEWELL	180	95
		CONTRACT NO. 68A93		
	ILLINOIS	FED. AID PROJECT		



OUTSIDE ELEVATION



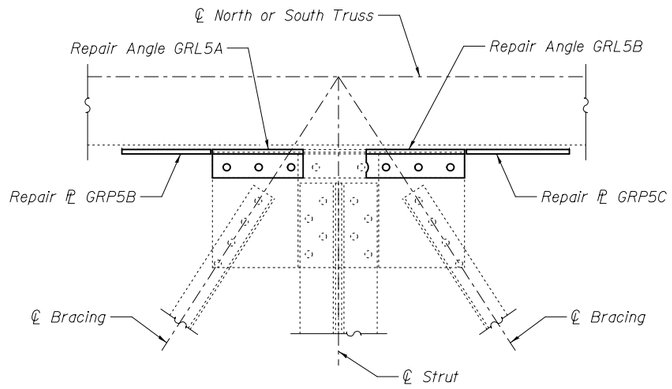
INSIDE ELEVATION



SECTION A-A

GUSSET PLATE L2 AND L6

Field cut/cope new materials to accommodate existing fasteners not used in repair, as required.



SECTION B-B

REPAIR LOCATIONS

Span	Joint	Truss	Inner PL	Outer PL
10	L2	North	1	N/A
10	L2	South	1	1
10	L6	South	1	1
11	L2	North	1	1
11	L2	South	1	1
11	L6	North	1	N/A
11	L6	South	1	1
12	L2	North	1	N/A
12	L2	South	1	1
12	L6	North	1	N/A
12	L6	South	1	1
16	L2	North	1	N/A
16	L2	South	1	1
16	L6	North	1	N/A
16	L6	South	1	1
17	L2	South	1	N/A
17	L6	South	1	N/A

LEGEND

- ⁘ Existing fastener to remain
- ● New 7/8" ϕ A325 bolt in new 15/16" ϕ hole (shop or field drilled)
- ○ Replace existing fastener with new 7/8" ϕ A325 bolt in existing hole. Holes in new material shall be field drilled using existing members as a template.

Notes:

For gusset repair general notes and procedures, see Sheet 23 of 112.

The Contractor shall field verify existing conditions, including gusset plates, connection plates, connection angles, miscellaneous steel and layout of the fastener holes prior to ordering new materials.

For Detail 1 (Sealant), see Sheet 23 of 112.

BILL OF MATERIAL

Item	Unit	Total
Structural Steel Repair	Pound	3,930

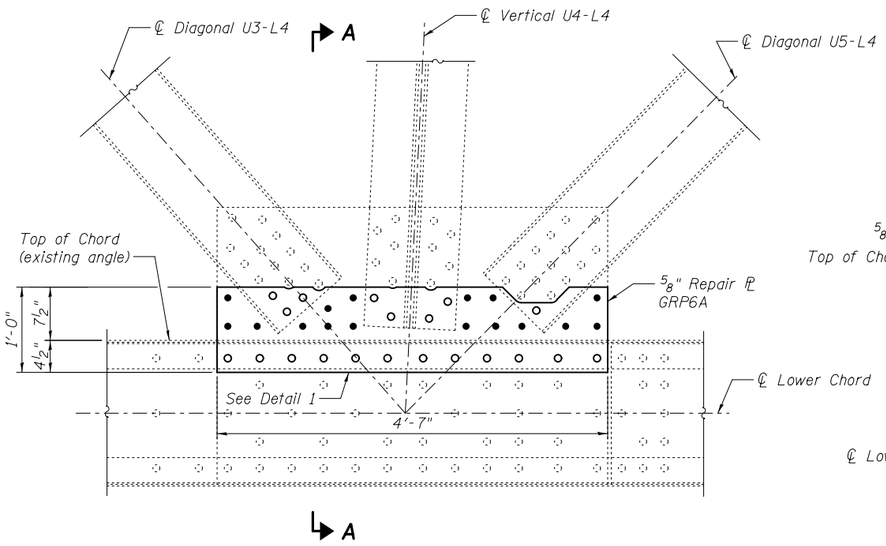
MODJESKI and MASTERS
Experience great bridges.

USER NAME =	DESIGNED - ZWE	REVISED
	CHECKED - YSS	REVISED
PLOT SCALE =	DRAWN - PRC	REVISED
PLOT DATE = 10/05/2015	CHECKED - RLM	REVISED

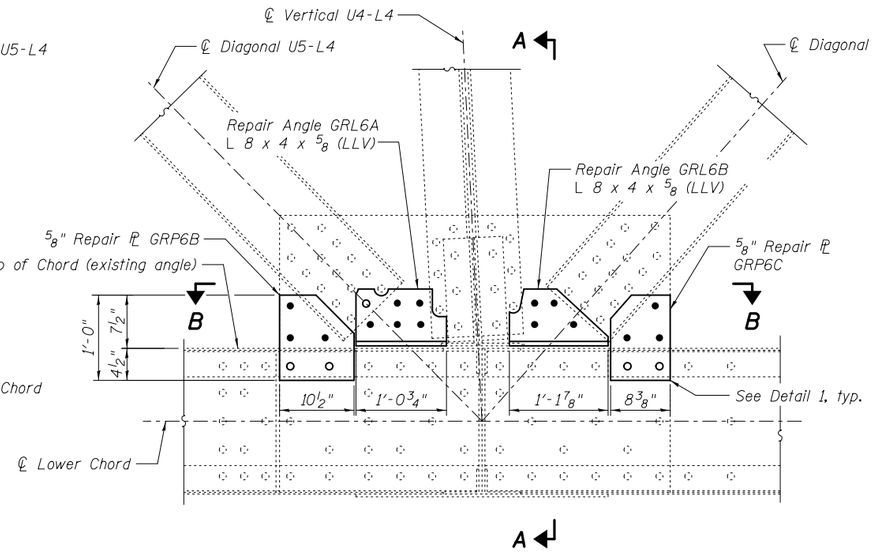
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

GUSSET PLATE REPAIRS – 5
S.N. 090–0030 CEDAR STREET BRIDGE OVER ILLINOIS RIVER
SHEET NO. 28 OF 112 SHEETS

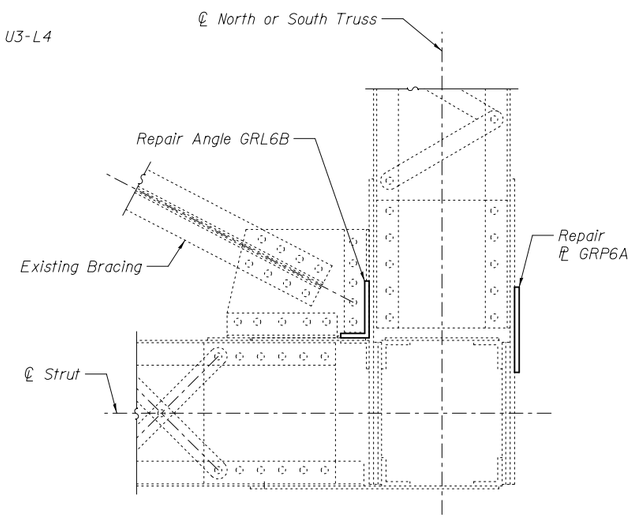
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
669	(103B)I-7	PEORIA/TAZEWELL	180	96
		CONTRACT NO. 68A93		
	ILLINOIS	FED. AID PROJECT		



OUTSIDE ELEVATION



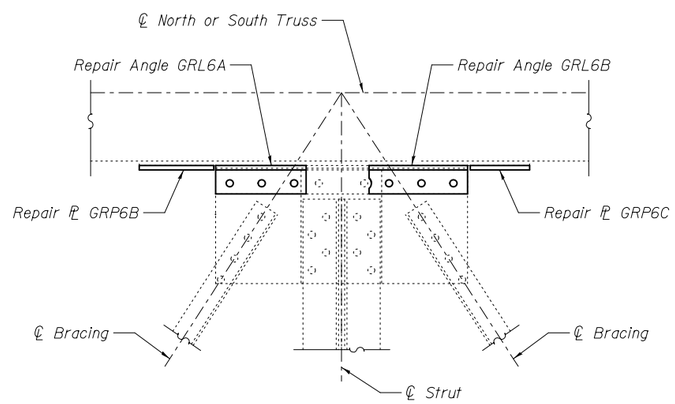
INSIDE ELEVATION



SECTION A-A

GUSSET PLATE L4

Field cut/cope new materials to accommodate existing fasteners not used in repair, as required.



SECTION B-B

REPAIR LOCATIONS

Span	Joint	Truss	Inner ℄	Outer ℄
10	L4	North	1*	1
10	L4	South	1	N/A
11	L4	North	1	1
11	L4	South	1	1
12	L4	North	1	1
12	L4	South	N/A	1
16	L4	North	1	1
16	L4	South	1	1
17	L4	North	1	N/A
17	L4	South	1	N/A

* GRL6B not required. Existing repair angle to remain in place.

LEGEND

- ◌ Existing fastener to remain
- ● New 7/8" ϕ A325 bolt in new 15/16" ϕ hole (shop or field drilled)
- ○ Replace existing fastener with new 7/8" ϕ A325 bolt in existing hole. Holes in new material shall be field drilled using existing members as a template.

Notes:

For gusset repair general notes and procedures, see Sheet 23 of 112.

The Contractor shall field verify existing conditions, including gusset plates, connection plates, connection angles, miscellaneous steel and layout of the fastener holes prior to ordering new materials.

For Detail 1 (Sealant), see Sheet 23 of 112.

BILL OF MATERIAL

Item	Unit	Total
Structural Steel Repair	Pound	2050

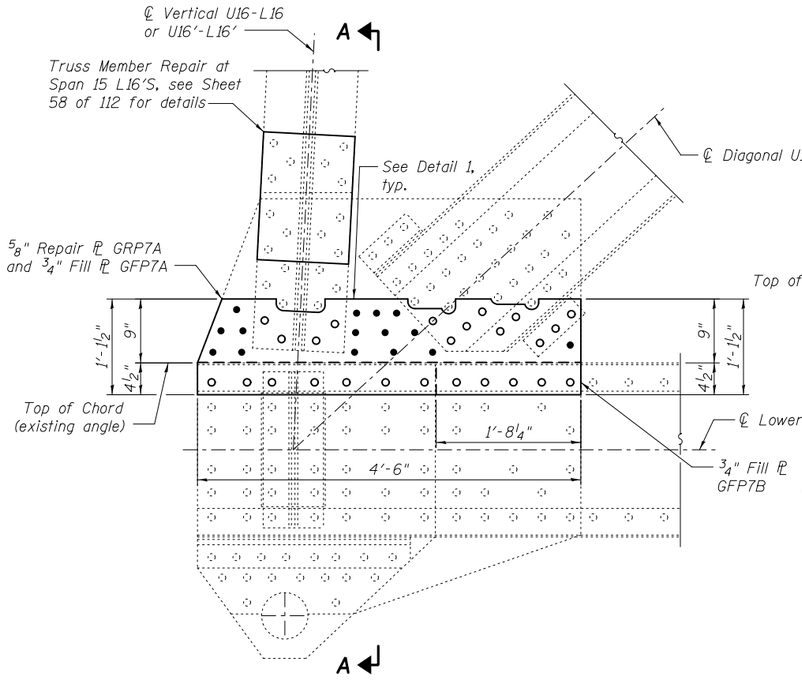
MODJESKI and MASTERS
Experience great bridges.

USER NAME =	DESIGNED - ZWE	REVISED
	CHECKED - YSS	REVISED
PLOT SCALE =	DRAWN - PRC	REVISED
PLOT DATE = 10/05/2015	CHECKED - RLM	REVISED

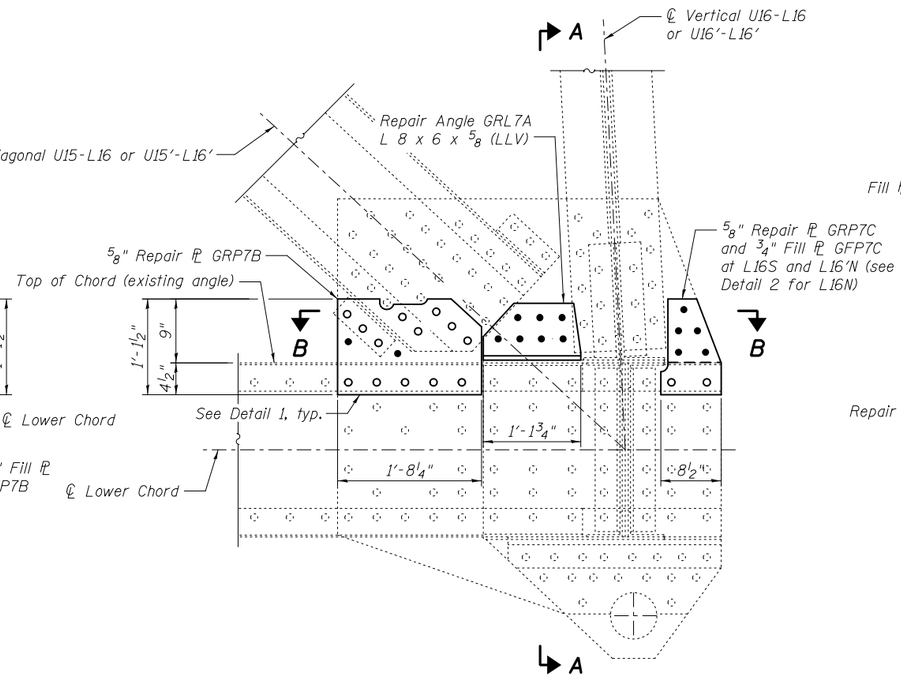
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

GUSSET PLATE REPAIRS – 6
S.N. 090–0030 CEDAR STREET BRIDGE OVER ILLINOIS RIVER
SHEET NO. 29 OF 112 SHEETS

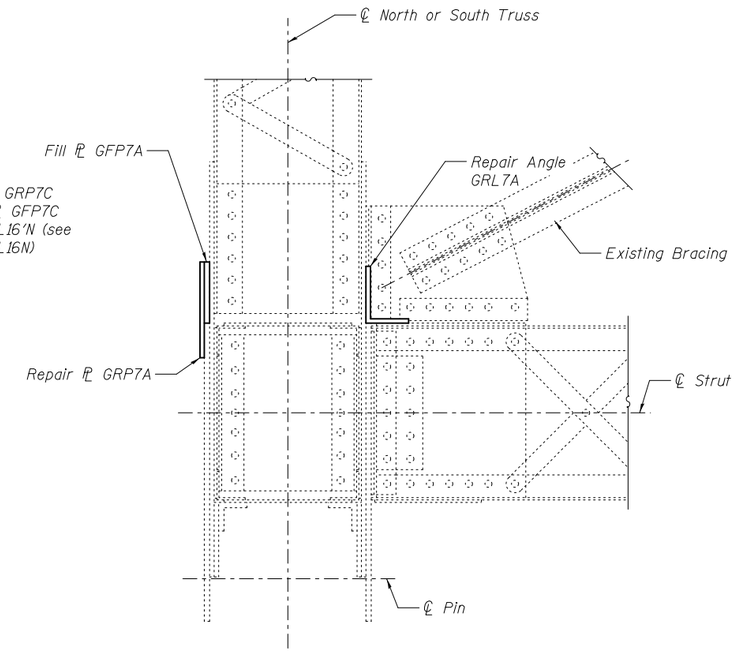
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
669	(103B)I-7	PEORIA/TAZEWELL	180	97
		CONTRACT NO. 68A93		
	ILLINOIS	FED. AID PROJECT		



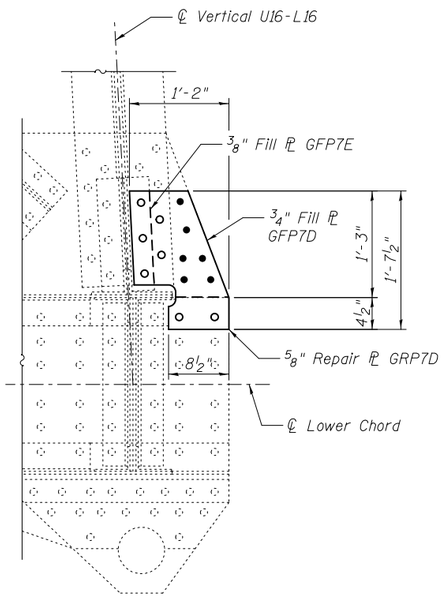
OUTSIDE ELEVATION



INSIDE ELEVATION



SECTION A-A

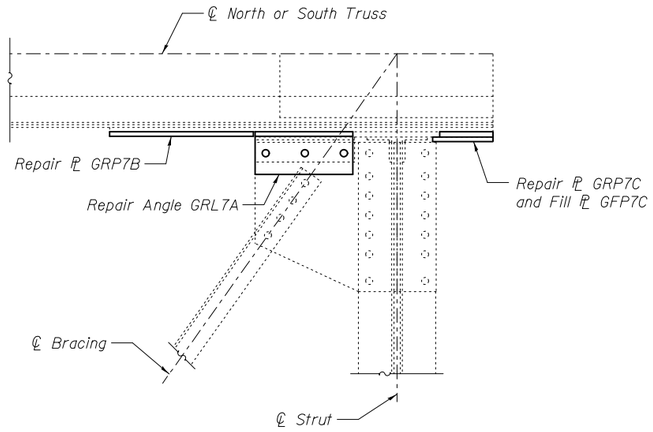


DETAIL 2

(at L16N only)

GUSSET PLATE L16 AND L16'

Field cut/cope new materials to accommodate existing fasteners not used in repair, as required.



SECTION B-B

REPAIR LOCATIONS

Span	Joint	Truss	Inner ℄	Outer ℄
13	L16	North	1*	1
13	L16	South	1*	1
15	L16'	North	1**	1
15	L16'	South	N/A	1

* GRL7A not required. Existing repair angle to remain in place.

** Remove existing repair angle. Reuse existing holes and modify proposed fastener layout to accommodate additional fasteners in accordance with gusset repair procedures.

LEGEND

- Existing fastener to remain
- New 7/8" ϕ A325 bolt in new 15/16" ϕ hole (shop or field drilled)
- Replace existing fastener with new 7/8" ϕ A325 bolt in existing hole. Holes in new material shall be field drilled using existing members as a template.

Notes:

For gusset repair general notes and procedures, see Sheet 23 of 112.

The Contractor shall field verify existing conditions, including gusset plates, connection plates, connection angles, miscellaneous steel and layout of the fastener holes prior to ordering new materials.

For Detail 1 (Sealant), see Sheet 23 of 112.

BILL OF MATERIAL

Item	Unit	Total
Structural Steel Repair	Pound	1570

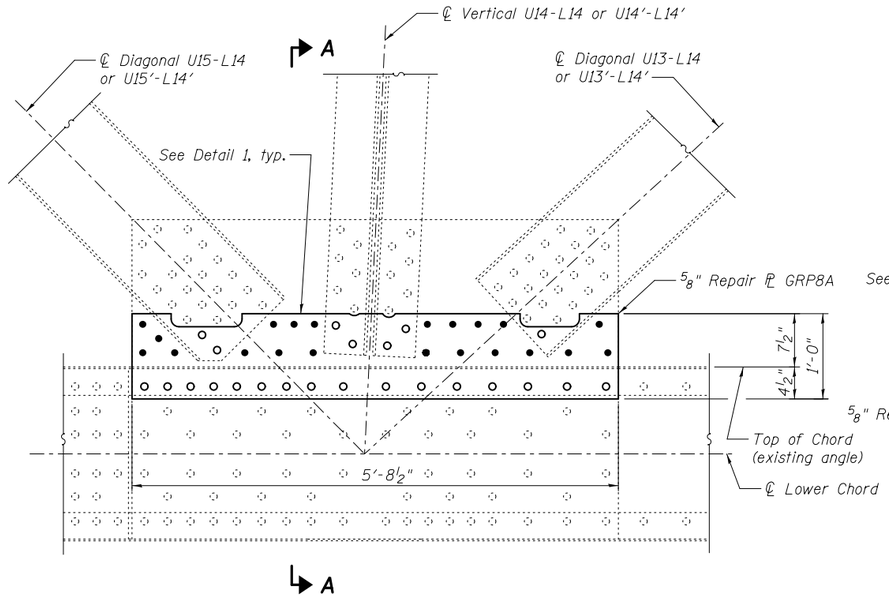
MODJESKI and MASTERS
Experience great bridges.

USER NAME =	DESIGNED - ZWE	REVISED
	CHECKED - YSS	REVISED
PLOT SCALE =	DRAWN - PRC	REVISED
PLOT DATE = 10/05/2015	CHECKED - RLM	REVISED

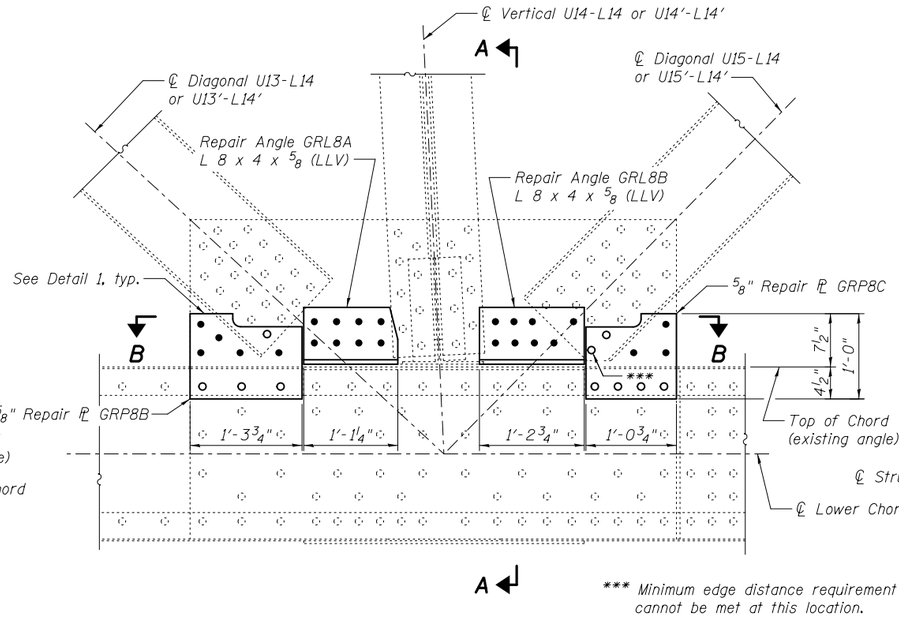
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

GUSSET PLATE REPAIRS – 7
S.N. 090-0030 CEDAR STREET BRIDGE OVER ILLINOIS RIVER
SHEET NO. 30 OF 112 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
669	(103B)I-7	PEORIA/TAZEWELL	180	98
		CONTRACT NO. 68A93		
	ILLINOIS	FED. AID PROJECT		

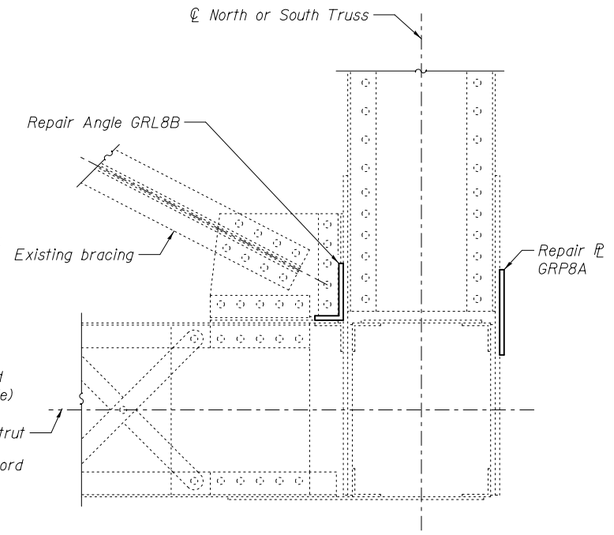


OUTSIDE ELEVATION

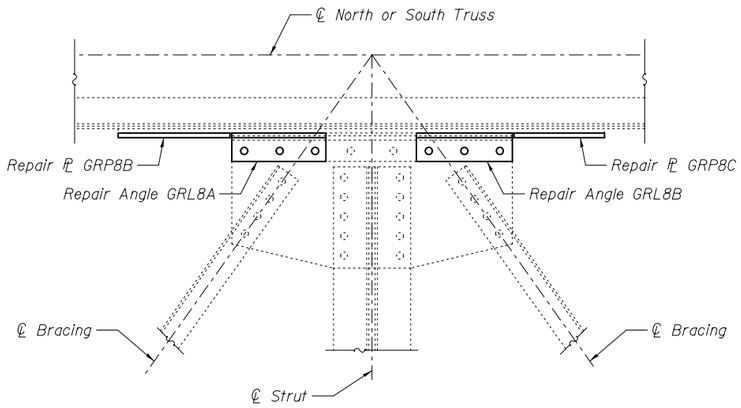


*** Minimum edge distance requirement cannot be met at this location.

INSIDE ELEVATION



SECTION A-A



SECTION B-B

GUSSET PLATE L14 AND L14′

Field cut/cope new materials to accommodate existing fasteners not used in repair, as required.

REPAIR LOCATIONS

Span	Joint	Truss	Inner PL	Outer PL
13	L14	North	1*	1
13	L14	South	1**	1
15	L14′	North	1	1
15	L14′	South	N/A	1

* GRL8A and GRL8B not required. Existing repair angles to remain in place.

** GRL8A not required. Existing repair angle to remain in place.

LEGEND

- ◌ Existing fastener to remain
- ● New 7/8" ϕ A325 bolt in new 15/16" ϕ hole (shop or field drilled)
- ○ Replace existing fastener with new 7/8" ϕ A325 bolt in existing hole. Holes in new material shall be field drilled using existing members as a template.

Notes:

For gusset repair general notes and procedures, see Sheet 23 of 112.

The Contractor shall field verify existing conditions, including gusset plates, connection plates, connection angles, miscellaneous steel and layout of the fastener holes prior to ordering new materials.

For Detail 1 (Sealant), see Sheet 23 of 112.

BILL OF MATERIAL

Item	Unit	Total
Structural Steel Repair	Pound	1080

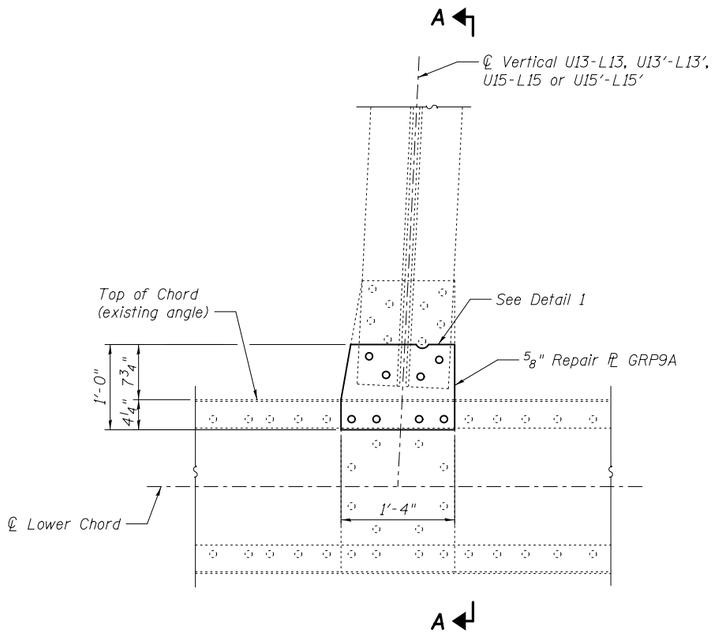
MODJESKI and MASTERS
Experience great bridges.

USER NAME =	DESIGNED - ZWE	REVISED
	CHECKED - YSS	REVISED
PLOT SCALE =	DRAWN - PRC	REVISED
PLOT DATE = 10/05/2015	CHECKED - RLM	REVISED

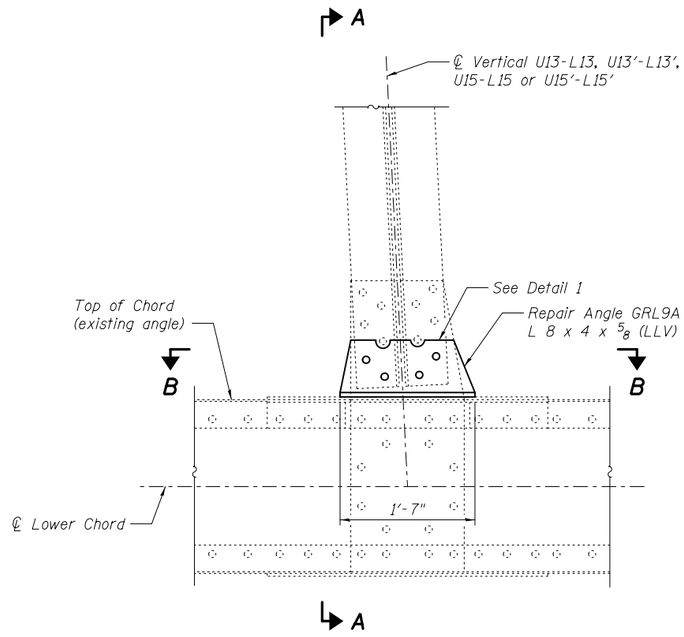
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

GUSSET PLATE REPAIRS – 8
S.N. 090–0030 CEDAR STREET BRIDGE OVER ILLINOIS RIVER
SHEET NO. 31 OF 112 SHEETS

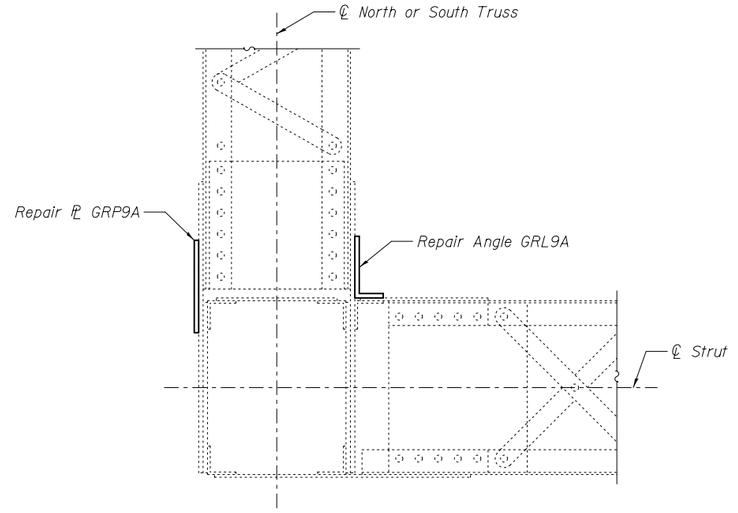
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
669	(103B)I-7	PEORIA/TAZEWELL	180	99
		CONTRACT NO. 68A93		
	ILLINOIS	FED. AID PROJECT		



OUTSIDE ELEVATION



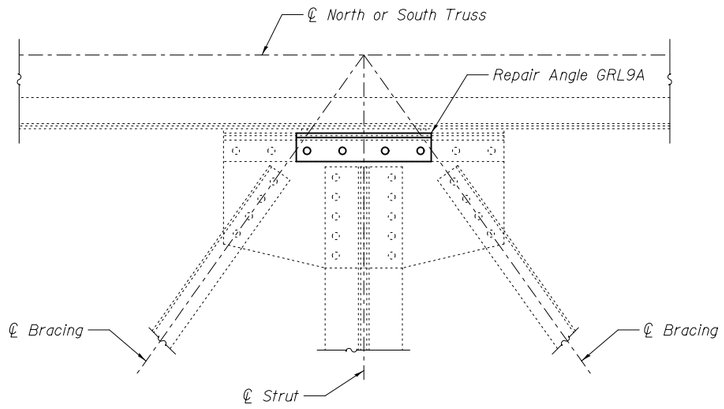
INSIDE ELEVATION



SECTION A-A

GUSSET PLATE L13, L13', L15 AND L15'

Field cut/cope new materials to accommodate existing fasteners not used in repair, as required.



SECTION B-B

REPAIR LOCATIONS

Span	Joint	Truss	Inner ℄	Outer ℄
13	L13	North	N/A	1
13	L13	South	1	1
15	L13'	North	1	1
15	L13'	South	N/A	1
13	L15	North	N/A	1
13	L15	South	N/A	1
15	L15'	North	1	N/A
15	L15'	South	1	N/A

LEGEND

- Existing fastener to remain
- New 7/8" ϕ A325 bolt in new 15/16" ϕ hole (shop or field drilled)
- Replace existing fastener with new 7/8" ϕ A325 bolt in existing hole. Holes in new material shall be field drilled using existing members as a template.

Notes:

For gusset repair general notes and procedures, see Sheet 23 of 112.

The Contractor shall field verify existing conditions, including gusset plates, connection plates, connection angles, miscellaneous steel and layout of the fastener holes prior to ordering new materials.

For Detail 1 (Sealant), see Sheet 23 of 112.

BILL OF MATERIAL

Item	Unit	Total
Structural Steel Repair	Pound	430

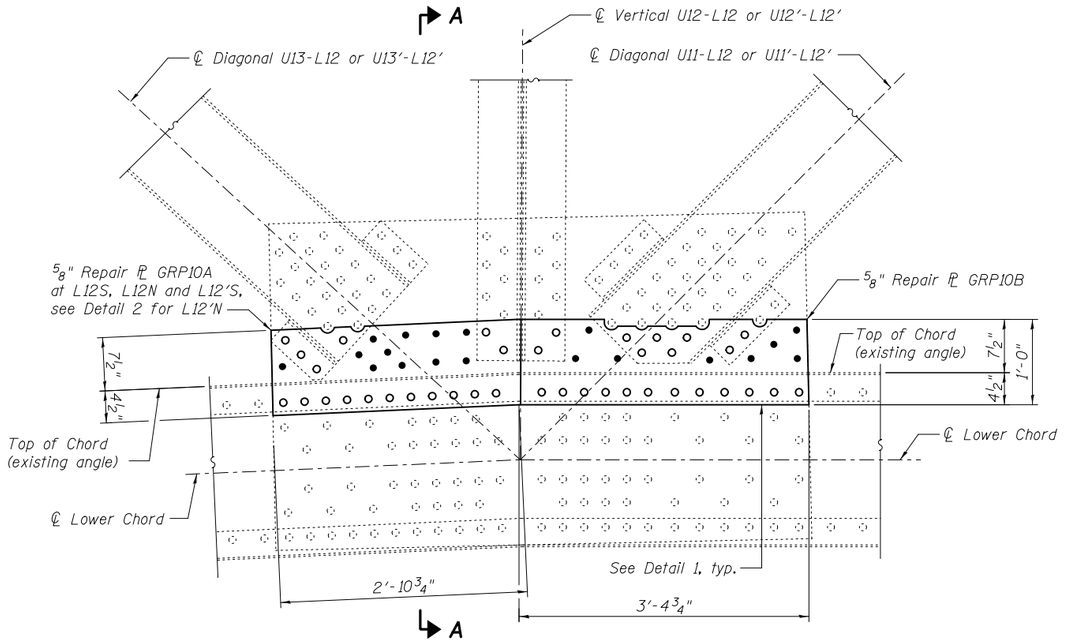
MODJESKI and MASTERS
Experience great bridges.

USER NAME =	DESIGNED - ZWE	REVISED
	CHECKED - YSS	REVISED
PLOT SCALE =	DRAWN - PRC	REVISED
PLOT DATE = 10/05/2015	CHECKED - RLM	REVISED

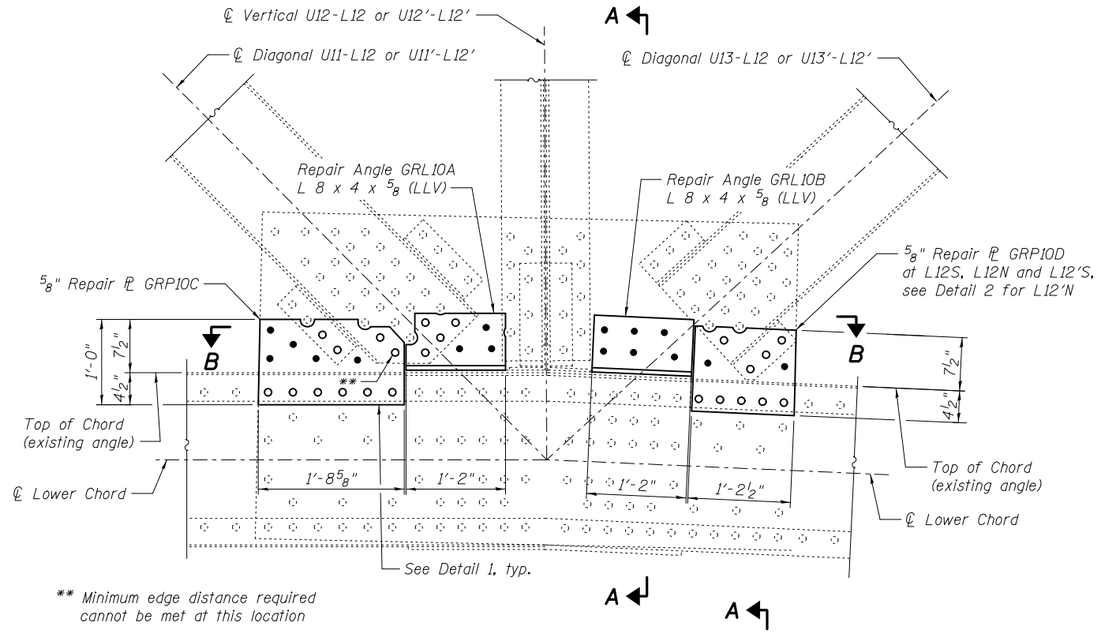
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

GUSSET PLATE REPAIRS – 9
S.N. 090–0030 CEDAR STREET BRIDGE OVER ILLINOIS RIVER
SHEET NO. 32 OF 112 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
669	(103B)I-7	PEORIA/TAZEWELL	180	100
		CONTRACT NO. 68A93		
	ILLINOIS	FED. AID PROJECT		



OUTSIDE ELEVATION

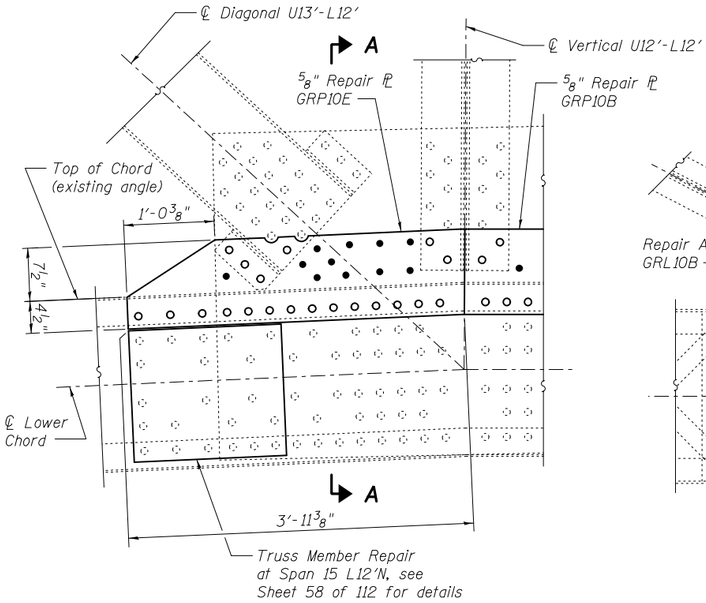


** Minimum edge distance required cannot be met at this location

INSIDE ELEVATION

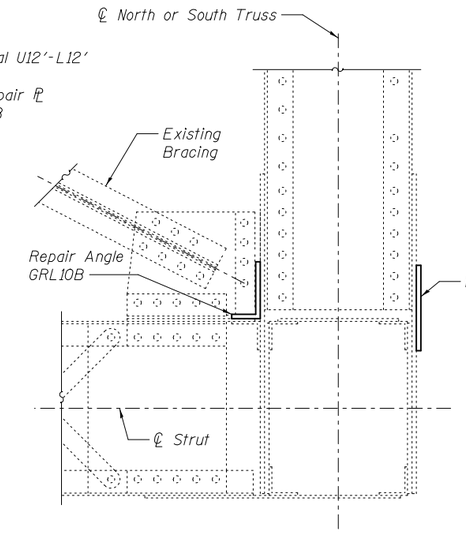
GUSSET PLATE L12 AND L12'

Field cut/cope new materials to accommodate existing fasteners not used in repair, as required.



DETAIL 2

(at L12'N only)



SECTION A-A

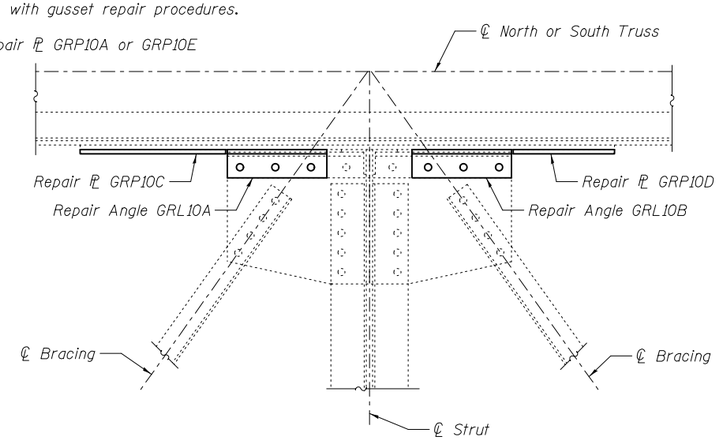
REPAIR LOCATIONS

Span	Joint	Truss	Inner ℙ	Outer ℙ
13	L12	North	1	1
13	L12	South	1	1
15	L12'	North	1	1
15	L12'	South	1*	1

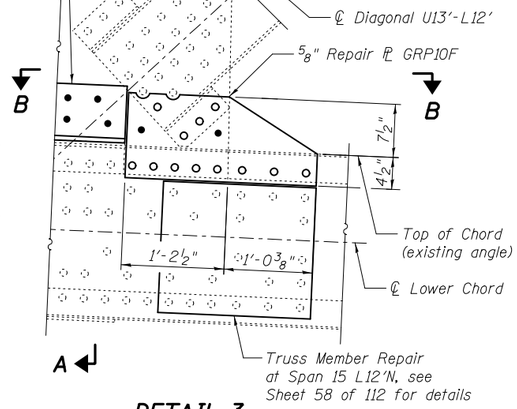
* Remove existing repair angle. Reuse existing holes and modify proposed fastener layout to accommodate additional fasteners in accordance with gusset repair procedures.

LEGEND

- ⁘ Existing fastener to remain
- • New 7/8" ϕ A325 bolt in new 15/16" ϕ hole (shop or field drilled)
- ○ Replace existing fastener with new 7/8" ϕ A325 bolt in existing hole. Holes in new material shall be field drilled using existing members as a template.



SECTION B-B



DETAIL 3

(at L12'N only)

Notes:

For gusset repair general notes and procedures, see Sheet 23 of 112.

The Contractor shall field verify existing conditions, including gusset plates, connection plates, connection angles, miscellaneous steel and layout of the fastener holes prior to ordering new materials.

For Detail 1 (Sealant), see Sheet 23 of 112.

BILL OF MATERIAL

Item	Unit	Total
Structural Steel Repair	Pound	1,580

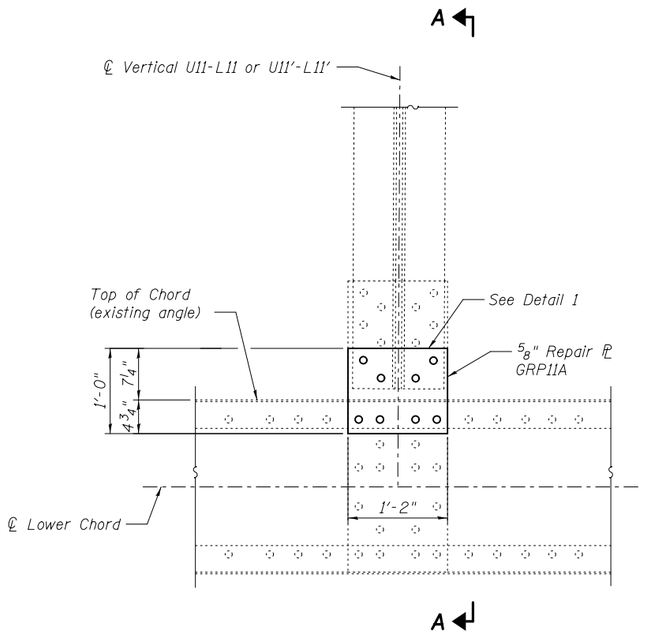
MODJESKI and MASTERS Experience great bridges.

USER NAME =	DESIGNED - ZWE	REVISED
	CHECKED - YSS	REVISED
PLOT SCALE =	DRAWN - PRC	REVISED
PLOT DATE = 10/05/2015	CHECKED - RLM	REVISED

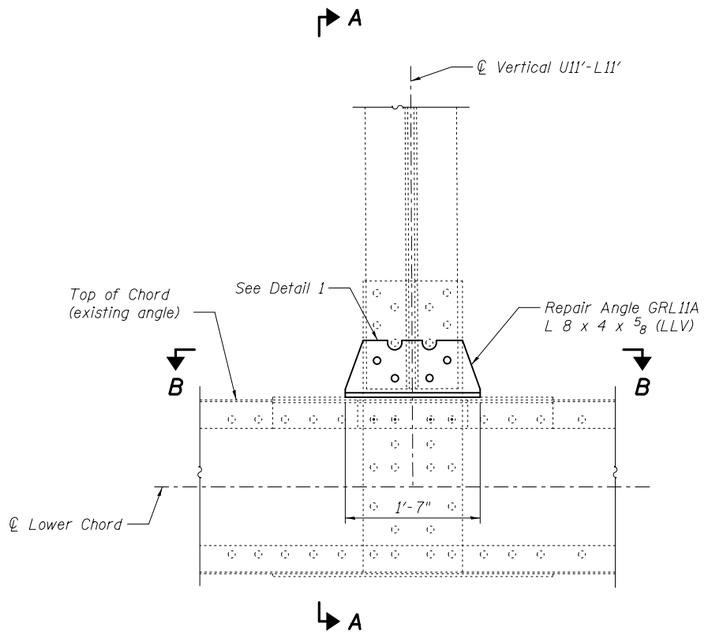
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

GUSSET PLATE REPAIRS – 10
S.N. 090–0030 CEDAR STREET BRIDGE OVER ILLINOIS RIVER
SHEET NO. 33 OF 112 SHEETS

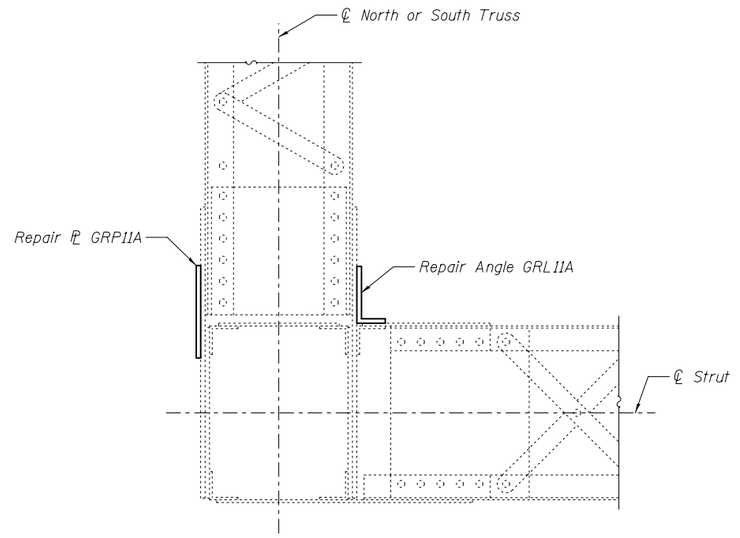
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
669	(103B)I-7	PEORIA/TAZEWELL	180	101
		CONTRACT NO. 68A93		
	ILLINOIS FED. AID PROJECT			



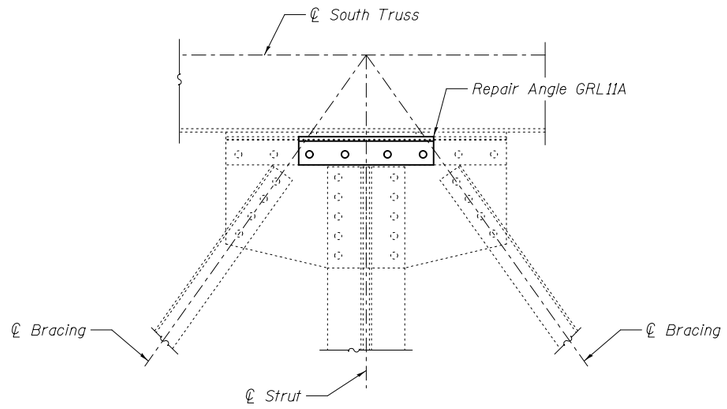
OUTSIDE ELEVATION



INSIDE ELEVATION



SECTION A-A



SECTION B-B

GUSSET PLATE L11 AND L11′

Field cut/cope new materials to accommodate existing fasteners not used in repair, as required.

REPAIR LOCATIONS

Span	Joint	Truss	Inner ℄	Outer ℄
13	L11	North	N/A	1
13	L11	South	N/A	1
15	L11′	South	1	1

LEGEND

- ◌ Existing fastener to remain
- ● New 7/8" ϕ A325 bolt in new 15/16" ϕ hole (shop or field drilled)
- ○ Replace existing fastener with new 7/8" ϕ A325 bolt in existing hole. Holes in new material shall be field drilled using existing members as a template.

Notes:

For gusset repair general notes and procedures, see Sheet 23 of 112.

The Contractor shall field verify existing conditions, including gusset plates, connection plates, connection angles, miscellaneous steel and layout of the fastener holes prior to ordering new materials.

For Detail 1 (Sealant), see Sheet 23 of 112.

BILL OF MATERIAL

Item	Unit	Total
Structural Steel Repair	Pound	160

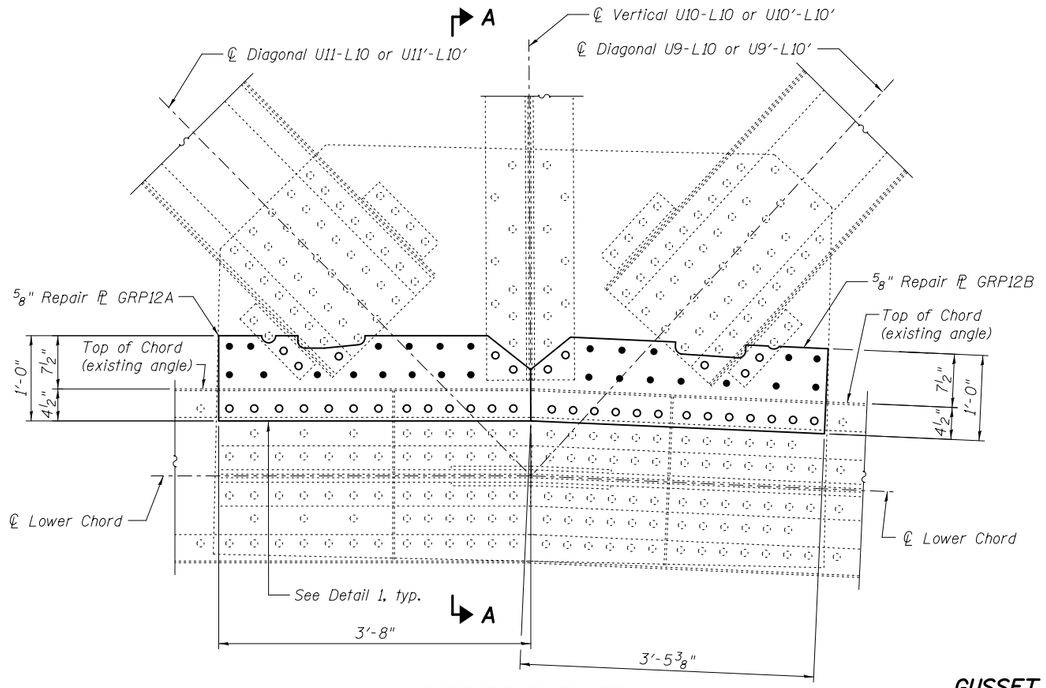
MODJESKI and MASTERS
Experience great bridges.

USER NAME =	DESIGNED - ZWE	REVISED
	CHECKED - YSS	REVISED
PLOT SCALE =	DRAWN - PRC	REVISED
PLOT DATE = 10/05/2015	CHECKED - RLM	REVISED

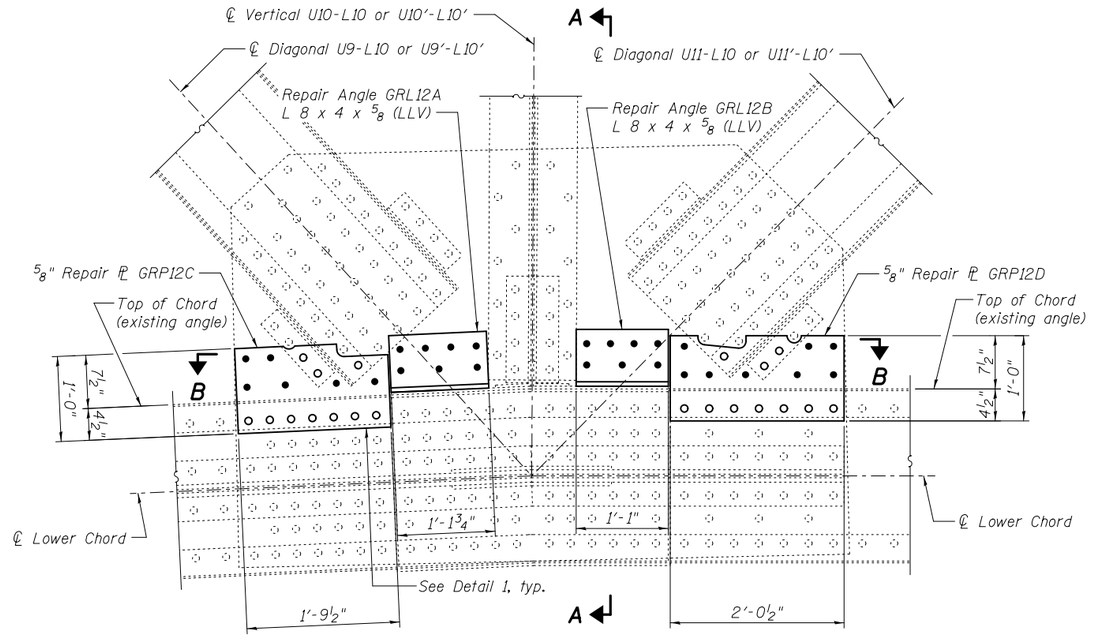
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

GUSSET PLATE REPAIRS – 11
S.N. 090–0030 CEDAR STREET BRIDGE OVER ILLINOIS RIVER
SHEET NO. 34 OF 112 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
669	(103B)I-7	PEORIA/TAZEWELL	180	102
		CONTRACT NO. 68A93		
	ILLINOIS	FED. AID PROJECT		



OUTSIDE ELEVATION



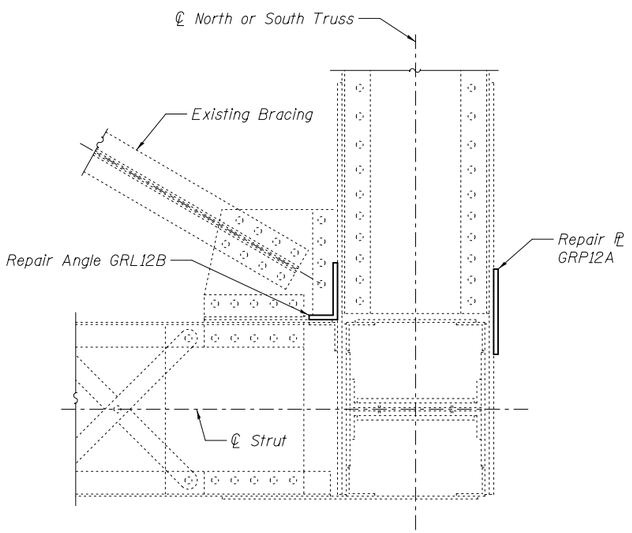
INSIDE ELEVATION

GUSSET PLATE L10 AND L10'

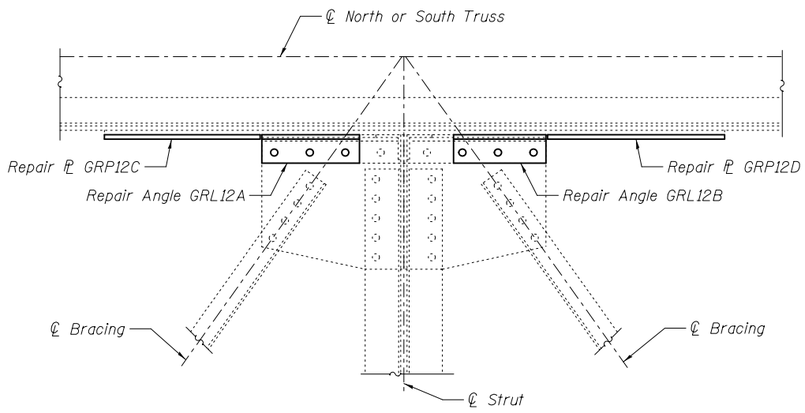
Field cut/cope new materials to accommodate existing fasteners not used in repair, as required.

REPAIR LOCATIONS

Span	Joint	Truss	Inner ℄	Outer ℄
13	L10	North	1	1
13	L10	South	1	1
15	L10'	North	1	1



SECTION A-A



SECTION B-B

LEGEND

- Existing fastener to remain
- New 7/8" ϕ A325 bolt in new 15/16" ϕ hole (shop or field drilled)
- Replace existing fastener with new 7/8" ϕ A325 bolt in existing hole. Holes in new material shall be field drilled using existing members as a template.

Notes:

For gusset repair general notes and procedures, see Sheet 23 of 112.

The Contractor shall field verify existing conditions, including gusset plates, connection plates, connection angles, miscellaneous steel and layout of the fastener holes prior to ordering new materials.

For Detail 1 (Sealant), see Sheet 23 of 112.

BILL OF MATERIAL

Item	Unit	Total
Structural Steel Repair	Pound	1300

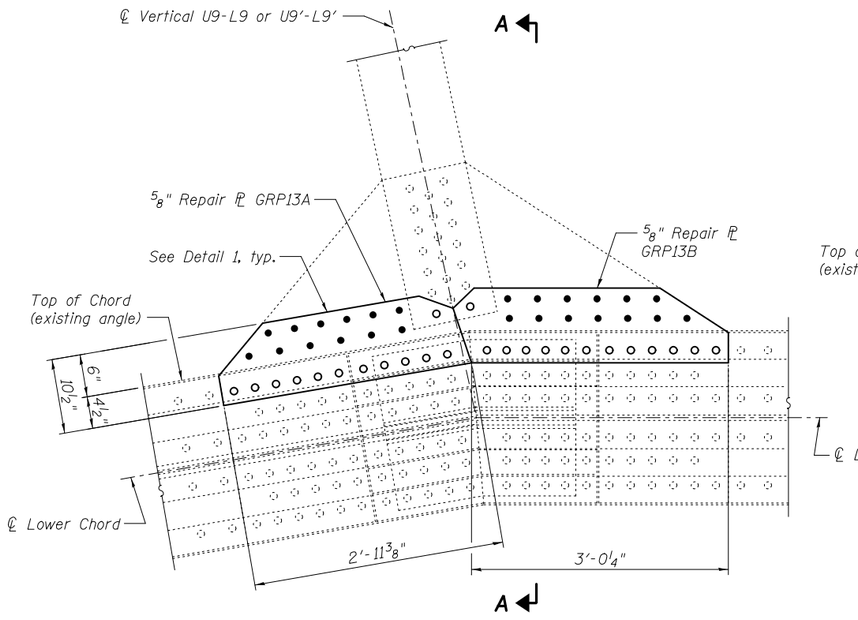
MODJESKI and MASTERS
Experience great bridges.

USER NAME =	DESIGNED - ZWE	REVISED
	CHECKED - YSS	REVISED
PLOT SCALE =	DRAWN - PRC	REVISED
PLOT DATE = 10/05/2015	CHECKED - RLM	REVISED

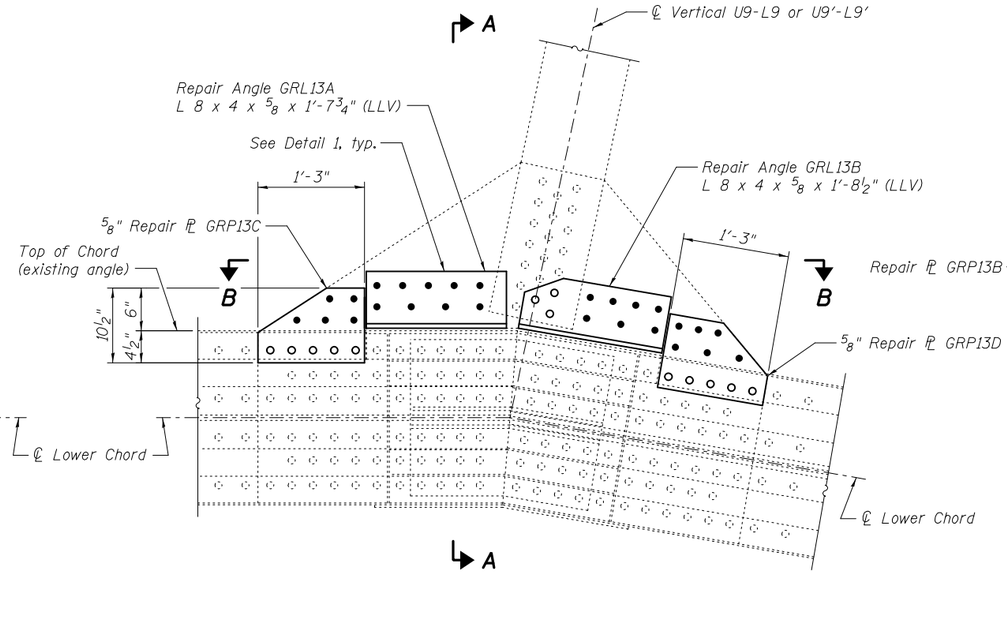
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

GUSSET PLATE REPAIRS – 12
S.N. 090–0030 CEDAR STREET BRIDGE OVER ILLINOIS RIVER
SHEET NO. 35 OF 112 SHEETS

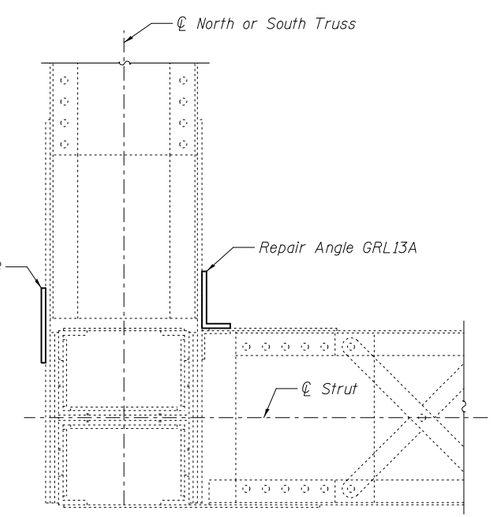
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
669	(103B)I-7	PEORIA/TAZEWELL	180	103
		CONTRACT NO. 68A93		
	ILLINOIS	FED. AID PROJECT		



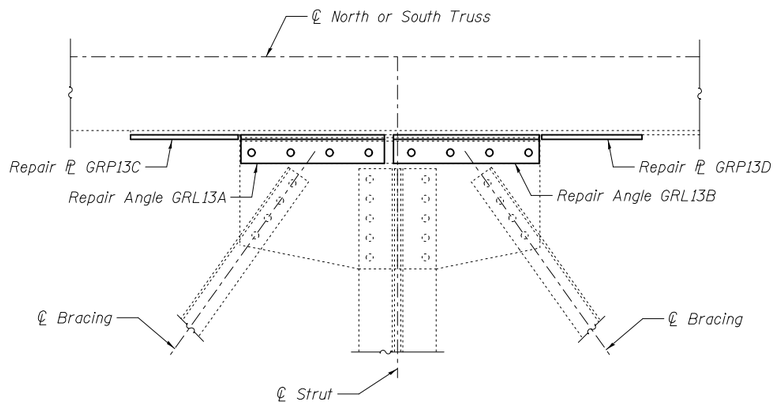
OUTSIDE ELEVATION



INSIDE ELEVATION



SECTION A-A



SECTION B-B

GUSSET PLATE L9 AND L9′

Field cut/cope new materials to accommodate existing fasteners not used in repair, as required.

REPAIR LOCATIONS

Span	Joint	Truss	Inner PL	Outer PL
13	L9	North	1	1
13	L9	South	1	1
15	L9′	North	1	1
15	L9′	South	1	1

LEGEND

- ◌ Existing fastener to remain
- ● New $^7/_8$" ϕ A325 bolt in new $^{15}/_{16}$" ϕ hole (shop or field drilled)
- ○ Replace existing fastener with new $^7/_8$" ϕ A325 bolt in existing hole. Holes in new material shall be field drilled using existing members as a template.

Notes:

For gusset repair general notes and procedures, see Sheet 23 of 112.

The Contractor shall field verify existing conditions, including gusset plates, connection plates, connection angles, miscellaneous steel and layout of the fastener holes prior to ordering new materials.

For Detail 1 (Sealant), see Sheet 23 of 112.

BILL OF MATERIAL

Item	Unit	Total
Structural Steel Repair	Pound	1,440

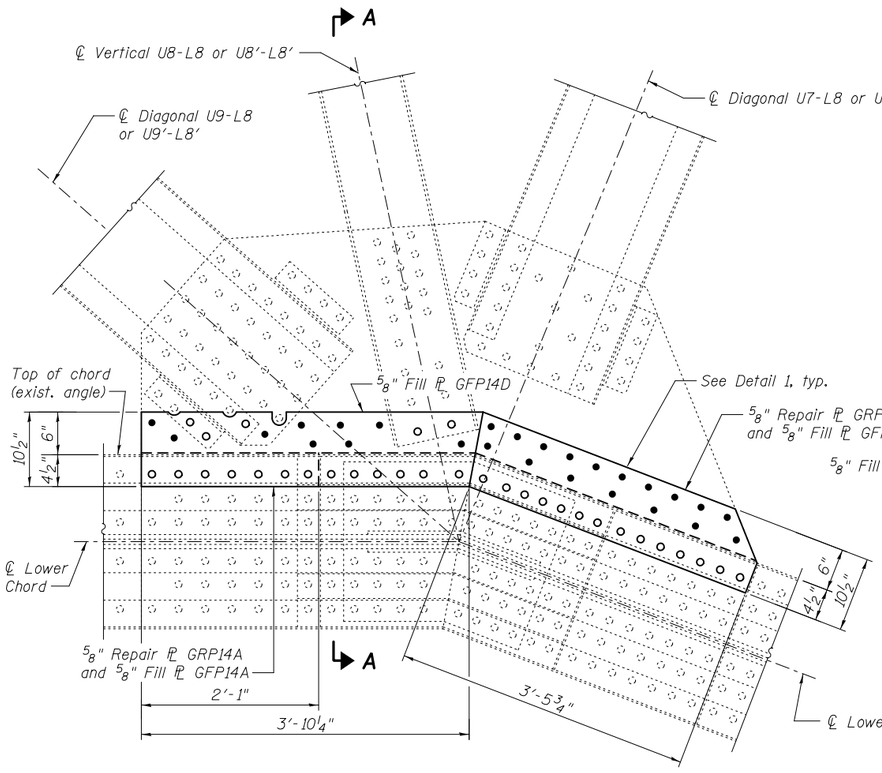
MODJESKI and MASTERS
Experience great bridges.

USER NAME =	DESIGNED - ZWE	REVISED
	CHECKED - YSS	REVISED
PLOT SCALE =	DRAWN - PRC	REVISED
PLOT DATE = 10/05/2015	CHECKED - RLM	REVISED

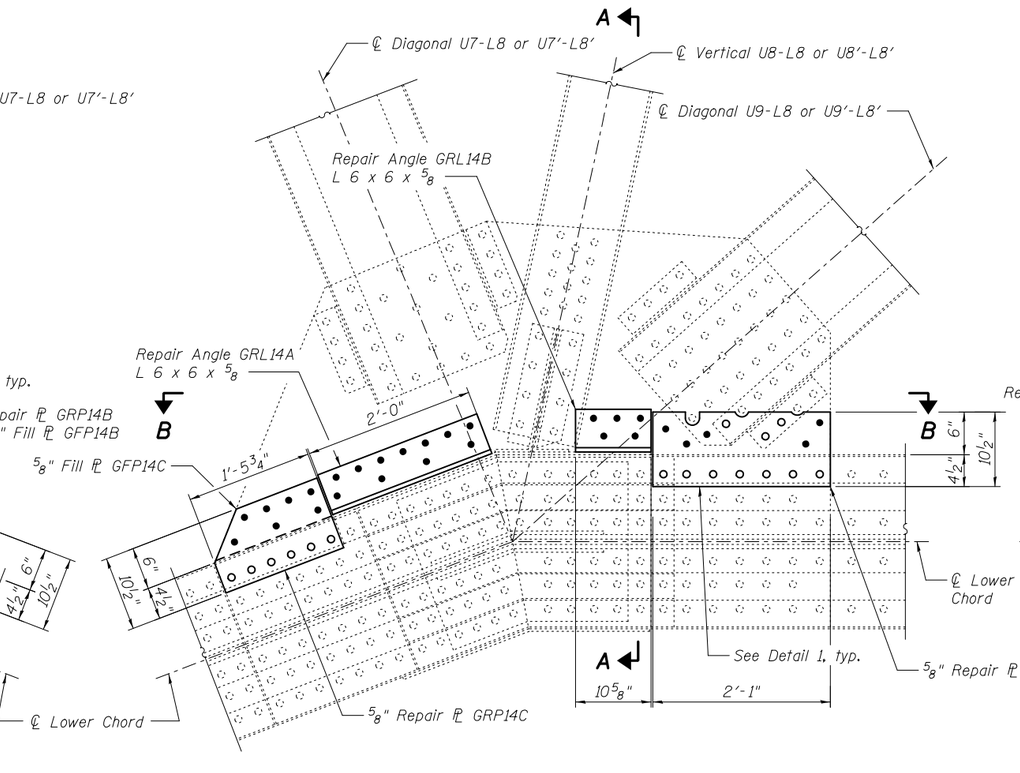
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

GUSSET PLATE REPAIRS – 13
S.N. 090–0030 CEDAR STREET BRIDGE OVER ILLINOIS RIVER
SHEET NO. 36 OF 112 SHEETS

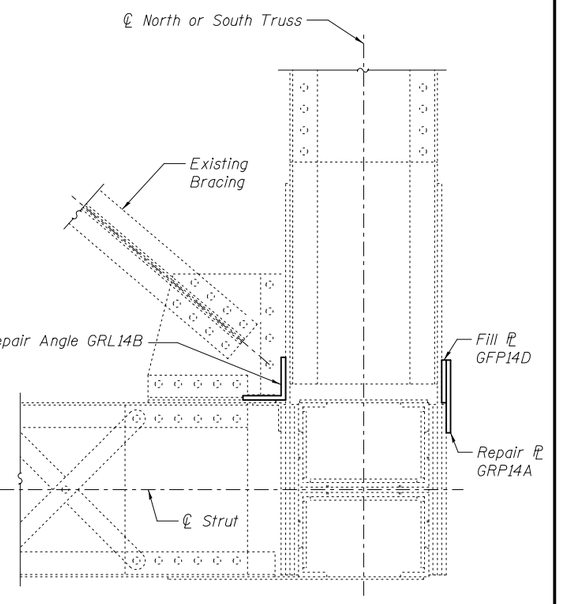
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
669	(103B)I-7	PEORIA/TAZEWELL	180	104
		CONTRACT NO. 68A93		
	ILLINOIS FED. AID PROJECT			



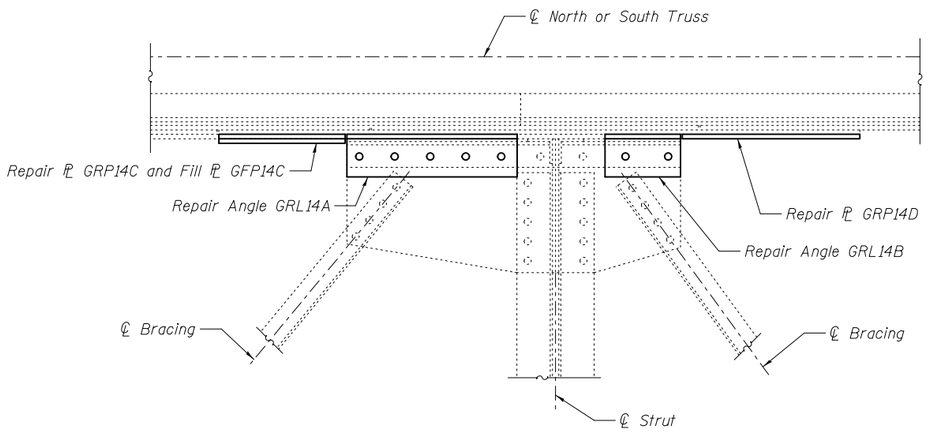
OUTSIDE ELEVATION



INSIDE ELEVATION



SECTION A-A



SECTION B-B

GUSSET PLATE L8 AND L8′

Field cut/cope new materials to accommodate existing fasteners not used in repair, as required.

REPAIR LOCATIONS

Span	Joint	Truss	Inner ℄	Outer ℄
13	L8	North	1	1
15	L8′	South	1	1

LEGEND

- ◌ Existing fastener to remain
- ● New 7/8" ϕ A325 bolt in new 15/16" ϕ hole (shop or field drilled)
- ○ Replace existing fastener with new 7/8" ϕ A325 bolt in existing hole. Holes in new material shall be field drilled using existing members as a template.

Notes:

For gusset repair general notes and procedures, see Sheet 23 of 112.

The Contractor shall field verify existing conditions, including gusset plates, connection plates, connection angles, miscellaneous steel and layout of the fastener holes prior to ordering new materials.

For Detail 1 (Sealant), see Sheet 23 of 112.

BILL OF MATERIAL

Item	Unit	Total
Structural Steel Repair	Pound	1,110

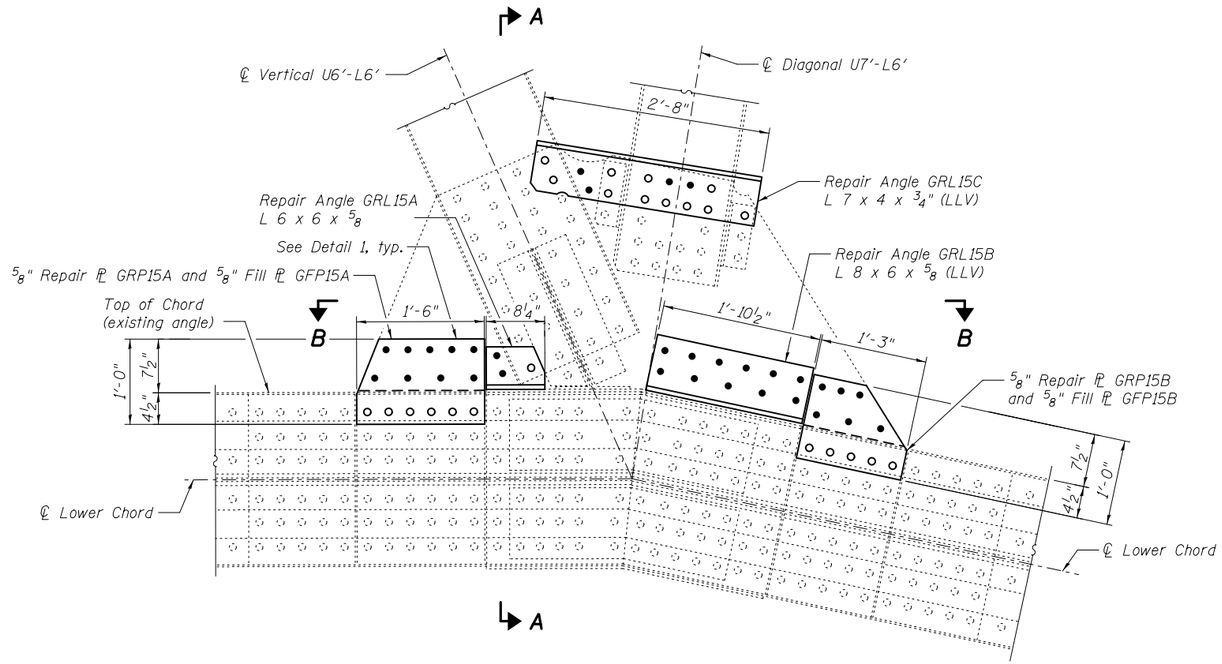
MODJESKI and MASTERS
Experience great bridges.

USER NAME =	DESIGNED - ZWE	REVISED
	CHECKED - YSS	REVISED
PLOT SCALE =	DRAWN - PRC	REVISED
PLOT DATE = 10/05/2015	CHECKED - RLM	REVISED

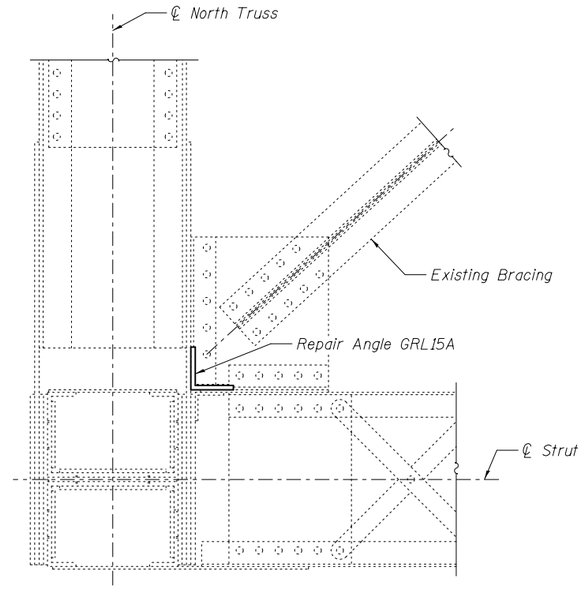
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

GUSSET PLATE REPAIRS – 14
S.N. 090–0030 CEDAR STREET BRIDGE OVER ILLINOIS RIVER
SHEET NO. 37 OF 112 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
669	(103B)I-7	PEORIA/TAZEWELL	180	105
		CONTRACT NO. 68A93		
	ILLINOIS FED. AID PROJECT			



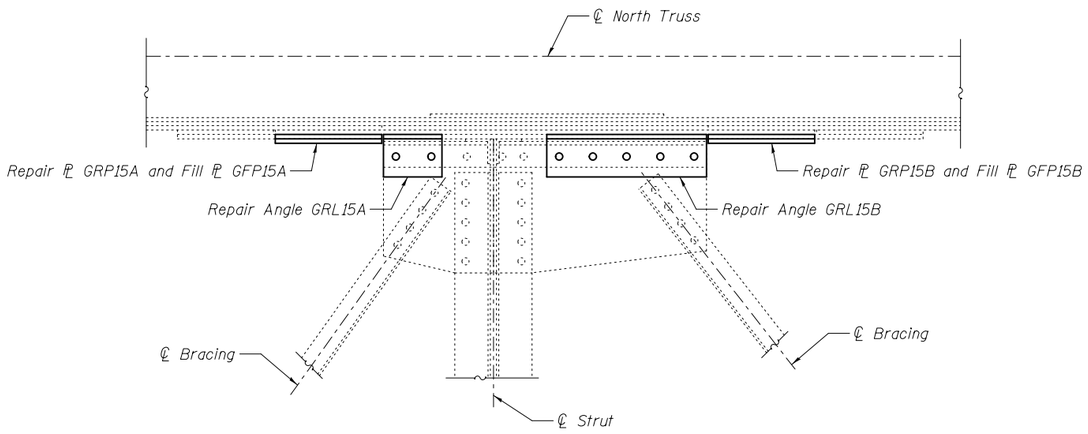
INSIDE ELEVATION



SECTION A-A

GUSSET PLATE L6′

Field cut/cope new materials to accommodate existing fasteners not used in repair, as required.



SECTION B-B

REPAIR LOCATION

Span	Joint	Truss	Inner ℄	Outer ℄
14	L6′	North	1	N/A

LEGEND

- ◌ Existing fastener to remain
- ● New 7/8″ ϕ A325 bolt in new 15/16″ ϕ hole (shop or field drilled)
- ○ Replace existing fastener with new 7/8″ ϕ A325 bolt in existing hole. Holes in new material shall be field drilled using existing members as a template.

Notes:

For gusset repair general notes and procedures, see Sheet 23 of 112.

The Contractor shall field verify existing conditions, including gusset plates, connection plates, connection angles, miscellaneous steel and layout of the fastener holes prior to ordering new materials.

For Detail 1 (Sealant), see Sheet 23 of 112.

BILL OF MATERIAL

Item	Unit	Total
Structural Steel Repair	Pound	310

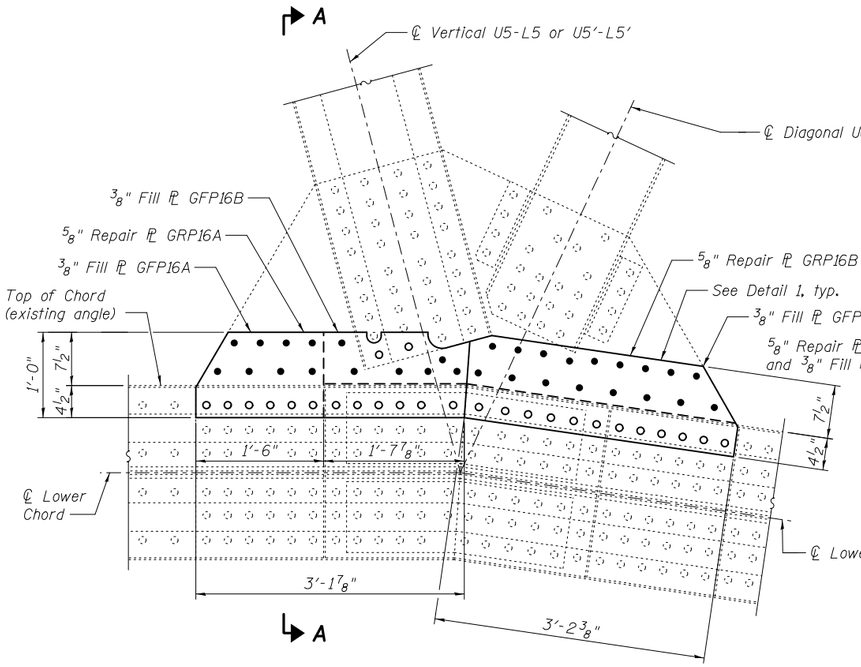
MODJESKI and MASTERS
Experience great bridges.

USER NAME =	DESIGNED - ZWE	REVISED
	CHECKED - YSS	REVISED
PLOT SCALE =	DRAWN - PRC	REVISED
PLOT DATE = 10/05/2015	CHECKED - RLM	REVISED

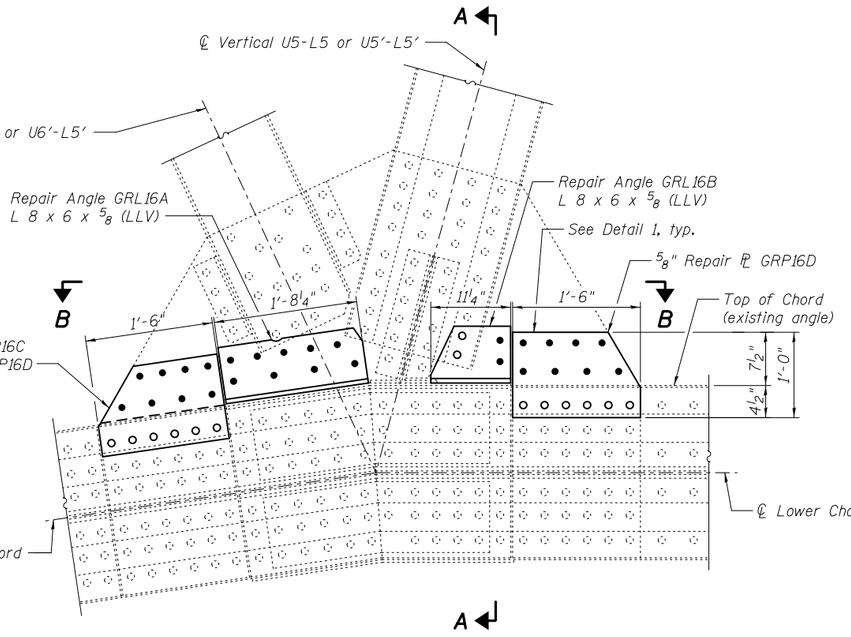
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

GUSSET PLATE REPAIRS – 15
S.N. 090–0030 CEDAR STREET BRIDGE OVER ILLINOIS RIVER
SHEET NO. 38 OF 112 SHEETS

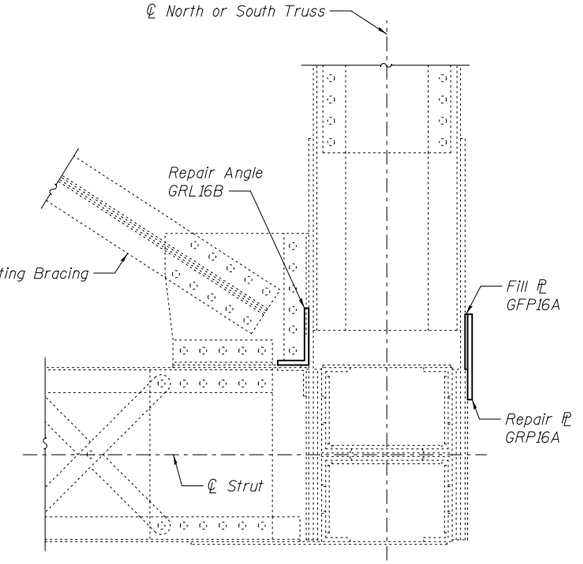
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
669	(103B)I-7	PEORIA/TAZEWELL	180	106
		CONTRACT NO. 68A93		
	ILLINOIS	FED. AID PROJECT		



OUTSIDE ELEVATION



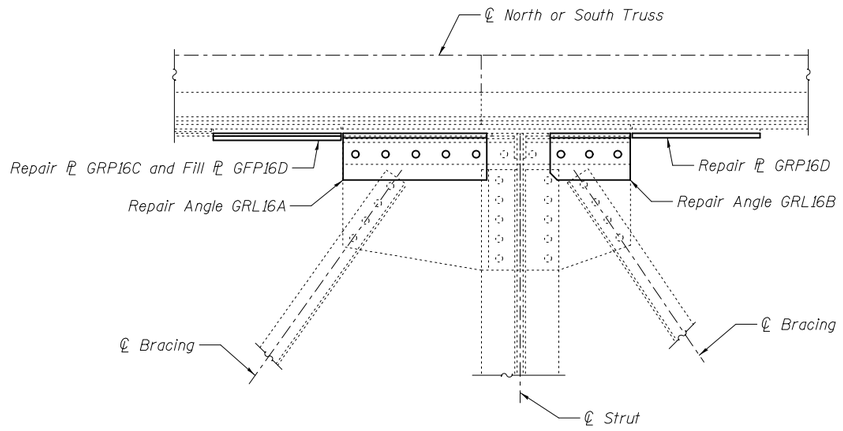
INSIDE ELEVATION



SECTION A-A

GUSSET PLATE L5 AND L5′

Field cut/cope new materials to accommodate existing fasteners not used in repair, as required.



SECTION B-B

REPAIR LOCATIONS

Span	Joint	Truss	Inner PL	Outer PL
14	L5	North	1	1
14	L5′	North	1	1
14	L5′	South	1*	1

* Remove existing repair angle. Reuse existing holes and modify proposed fastener layout to accommodate additional fasteners in accordance with gusset repair procedures.

LEGEND

- ◌ Existing fastener to remain
- ● New 7/8" ϕ A325 bolt in new 15/16" ϕ hole (shop or field drilled)
- ○ Replace existing fastener with new 7/8" ϕ A325 bolt in existing hole. Holes in new material shall be field drilled using existing members as a template.

Notes:

For gusset repair general notes and procedures, see Sheet 23 of 112.

The Contractor shall field verify existing conditions, including gusset plates, connection plates, connection angles, miscellaneous steel and layout of the fastener holes prior to ordering new materials.

For Detail 1 (Sealant), see Sheet 23 of 112.

BILL OF MATERIAL

Item	Unit	Total
Structural Steel Repair	Pound	1,470

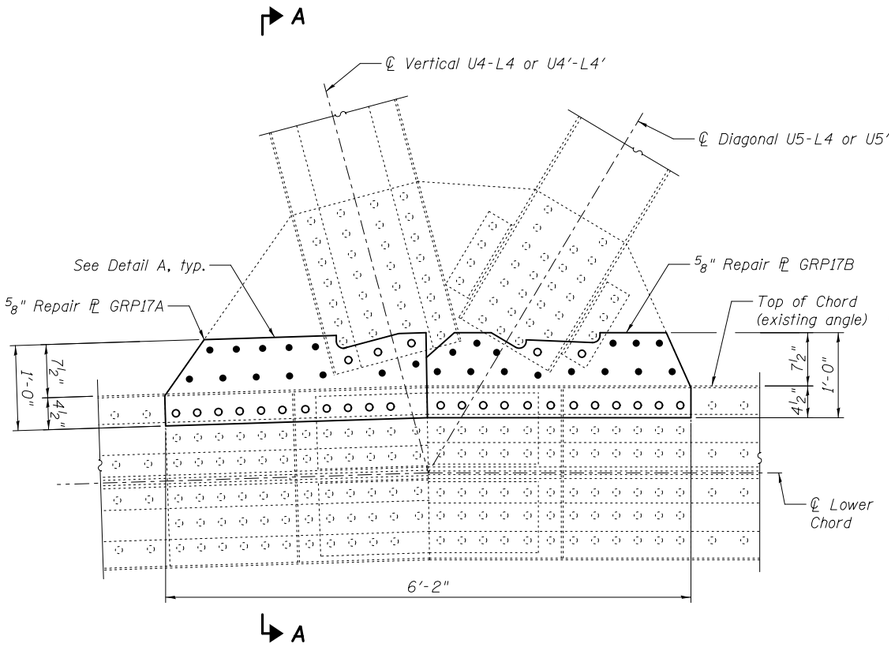
MODJESKI and MASTERS
Experience great bridges.

USER NAME =	DESIGNED - ZWE	REVISED
	CHECKED - YSS	REVISED
PLOT SCALE =	DRAWN - PRC	REVISED
PLOT DATE = 10/05/2015	CHECKED - RLM	REVISED

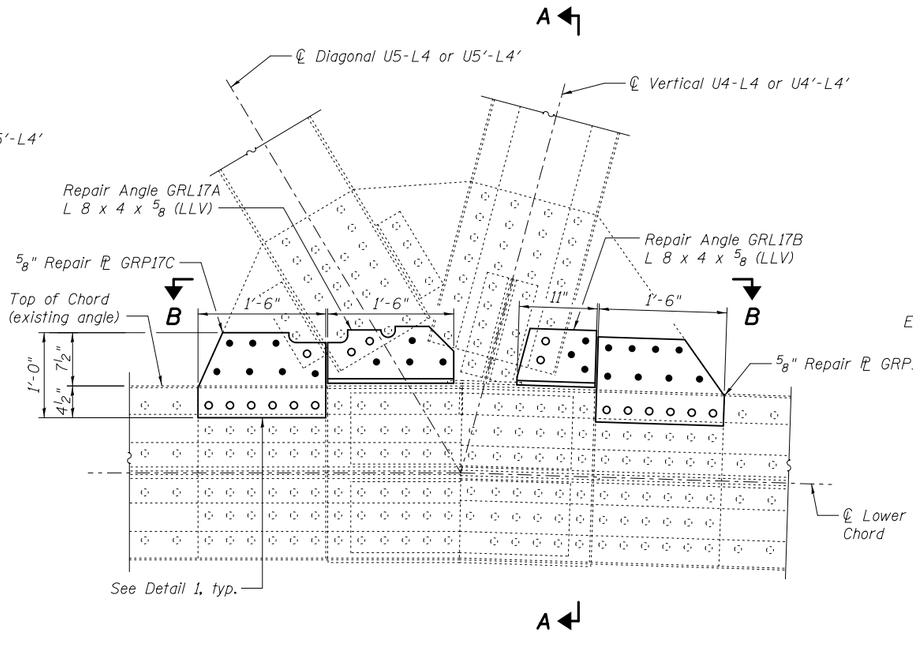
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

GUSSET PLATE REPAIRS – 16
S.N. 090–0030 CEDAR STREET BRIDGE OVER ILLINOIS RIVER
SHEET NO. 39 OF 112 SHEETS

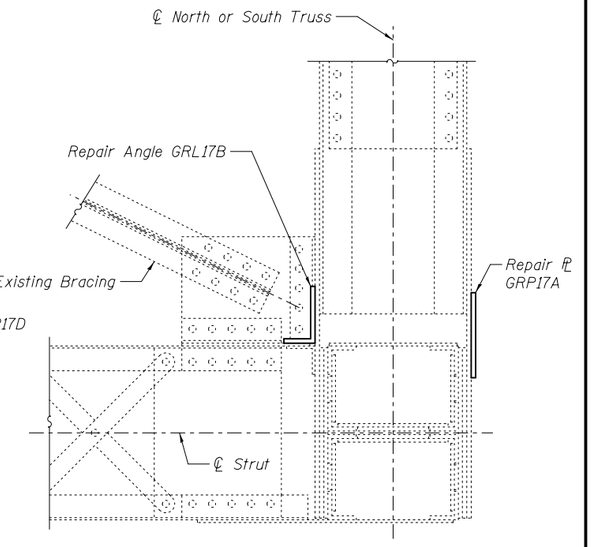
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
669	(103B)I-7	PEORIA/TAZEWELL	180	107
		CONTRACT NO. 68A93		
	ILLINOIS	FED. AID PROJECT		



OUTSIDE ELEVATION



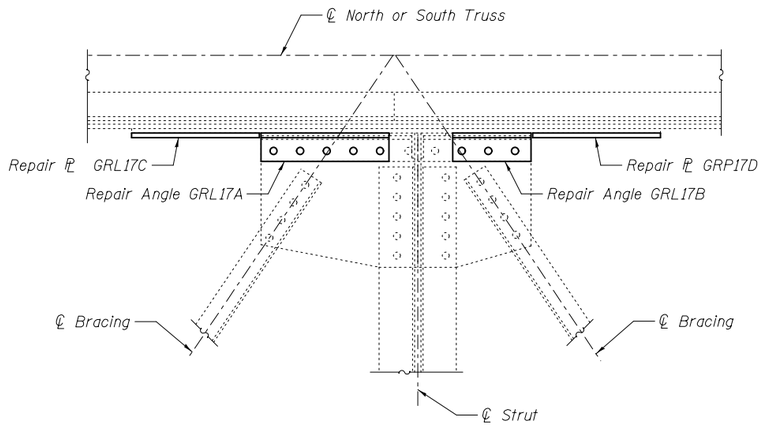
INSIDE ELEVATION



SECTION A-A

GUSSET PLATE L4 AND L4'

Field cut/cope new materials to accommodate existing fasteners not used in repair, as required.



SECTION B-B

REPAIR LOCATIONS

Span	Joint	Truss	Inner PL	Outer PL
14	L4	North	1*	1*
14	L4'	North	1*	1*
14	L4'	South	1	1

* *Remove existing repair plate and angle. Reuse existing holes and modify proposed fastener layout to accommodate additional fasteners in accordance with gusset repair procedures.*

LEGEND

- ◌ Existing fastener to remain
- ● New 7/8" ϕ A325 bolt in new 15/16" ϕ hole (shop or field drilled)
- ○ Replace existing fastener with new 7/8" ϕ A325 bolt in existing hole. Holes in new material shall be field drilled using existing members as a template.

Notes:

For gusset repair general notes and procedures, see Sheet 23 of 112.

The Contractor shall field verify existing conditions, including gusset plates, connection plates, connection angles, miscellaneous steel and layout of the fastener holes prior to ordering new materials.

For Detail 1 (Sealant), see Sheet 23 of 112.

BILL OF MATERIAL

Item	Unit	Total
Structural Steel Repair	Pound	1,140

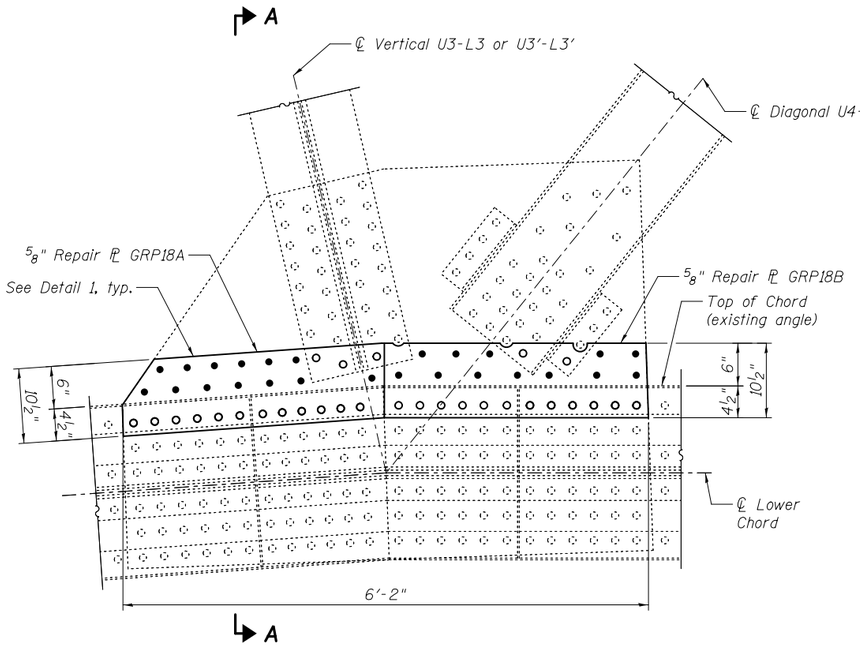
MODJESKI and MASTERS
Experience great bridges.

USER NAME =	DESIGNED - ZWE	REVISED
	CHECKED - YSS	REVISED
PLOT SCALE =	DRAWN - PRC	REVISED
PLOT DATE = 10/05/2015	CHECKED - RLM	REVISED

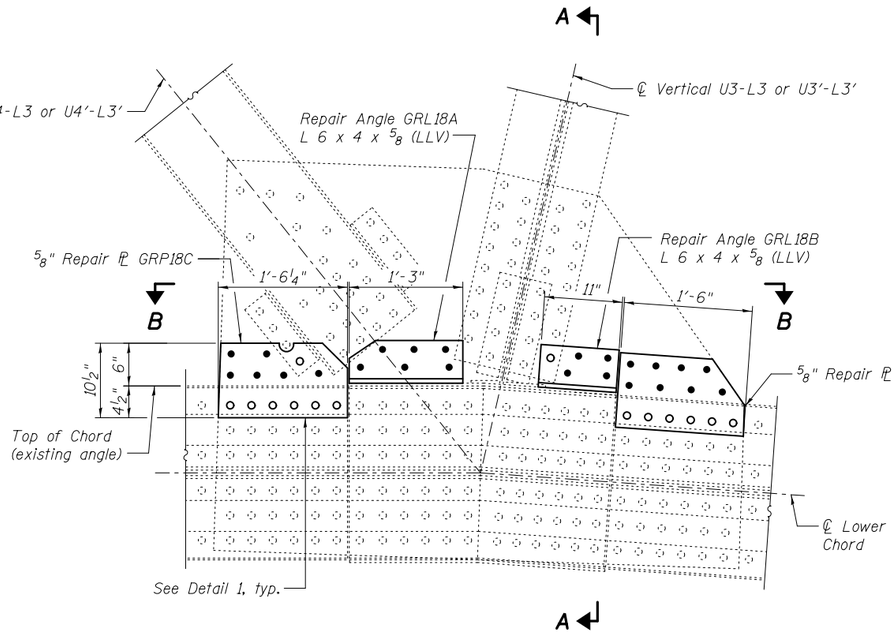
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

GUSSET PLATE REPAIRS – 17
S.N. 090–0030 CEDAR STREET BRIDGE OVER ILLINOIS RIVER
SHEET NO. 40 OF 112 SHEETS

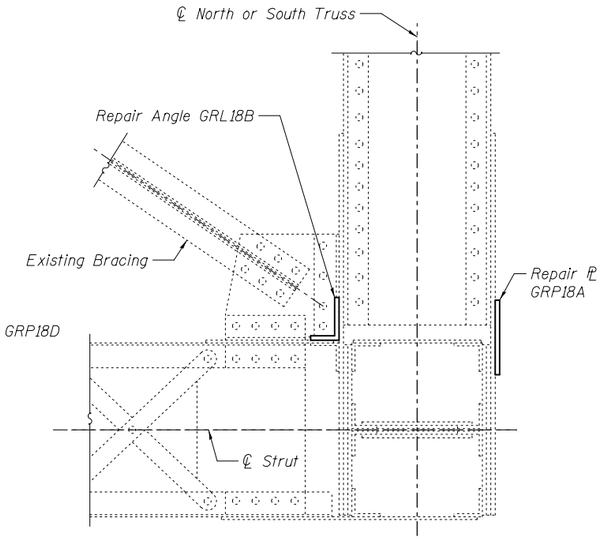
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
669	(103B)I-7	PEORIA/TAZEWELL	180	108
		CONTRACT NO. 68A93		
	ILLINOIS FED. AID PROJECT			



OUTSIDE ELEVATION



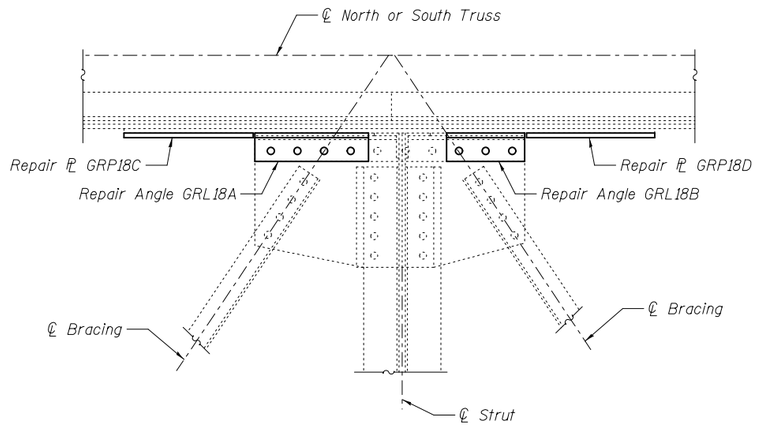
INSIDE ELEVATION



SECTION A-A

GUSSET PLATE L3 AND L3′

Field cut/cope new materials to accommodate existing fasteners not used in repair, as required.



SECTION B-B

REPAIR LOCATIONS

Span	Joint	Truss	Inner ℙ	Outer ℙ
14	L3	North	1	1
14	L3	South	1	1
14	L3′	North	1	N/A
14	L3′	South	1	1

LEGEND

- ◌ Existing fastener to remain
- ● New 7/8" ϕ A325 bolt in new 15/16" ϕ hole (shop or field drilled)
- ○ Replace existing fastener with new 7/8" ϕ A325 bolt in existing hole. Holes in new material shall be field drilled using existing members as a template.

Notes:

For gusset repair general notes and procedures, see Sheet 23 of 112.

The Contractor shall field verify existing conditions, including gusset plates, connection plates, connection angles, miscellaneous steel and layout of the fastener holes prior to ordering new materials.

For Detail 1 (Sealant), see Sheet 23 of 112.

BILL OF MATERIAL

Item	Unit	Total
Structural Steel Repair	Pound	1150

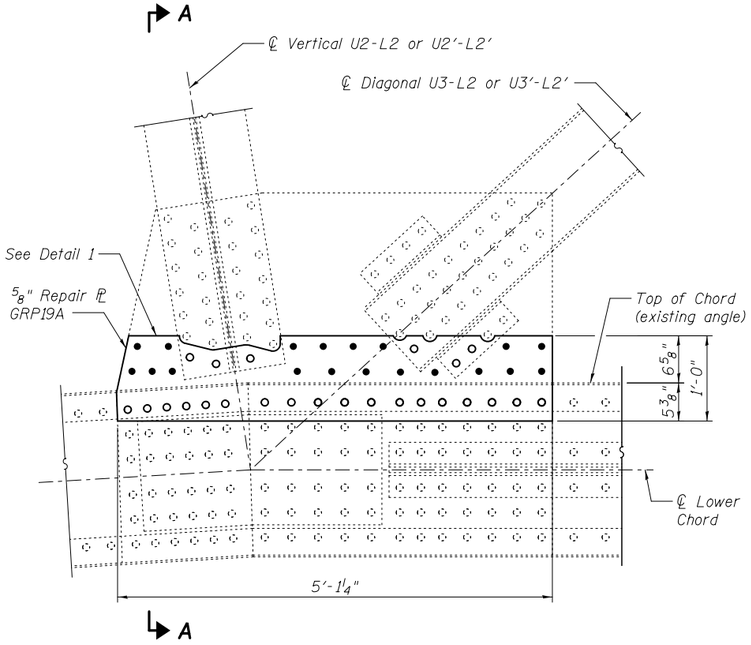
MODJESKI and MASTERS
Experience great bridges.

USER NAME =	DESIGNED - ZWE	REVISED
	CHECKED - YSS	REVISED
PLOT SCALE =	DRAWN - PRC	REVISED
PLOT DATE = 10/05/2015	CHECKED - RLM	REVISED

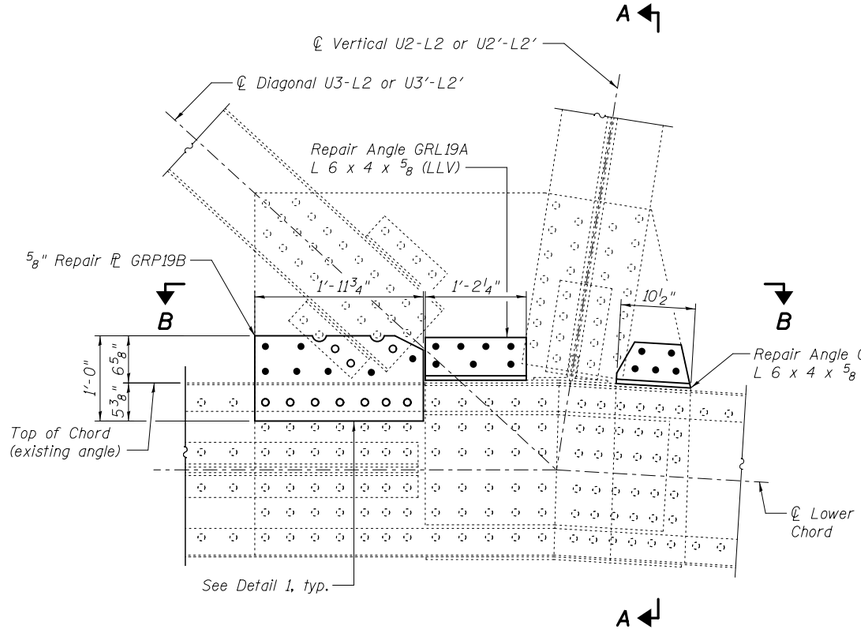
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

GUSSET PLATE REPAIRS – 18
S.N. 090–0030 CEDAR STREET BRIDGE OVER ILLINOIS RIVER
SHEET NO. 41 OF 112 SHEETS

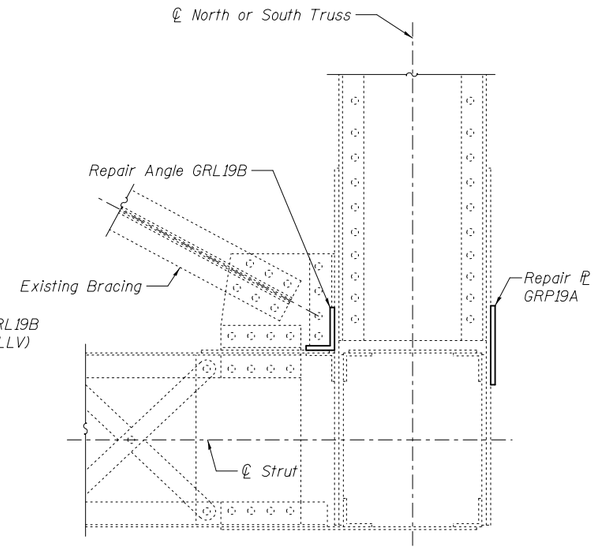
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
669	(103B)I-7	PEORIA/TAZEWELL	180	109
		CONTRACT NO. 68A93		
	ILLINOIS	FED. AID PROJECT		



OUTSIDE ELEVATION



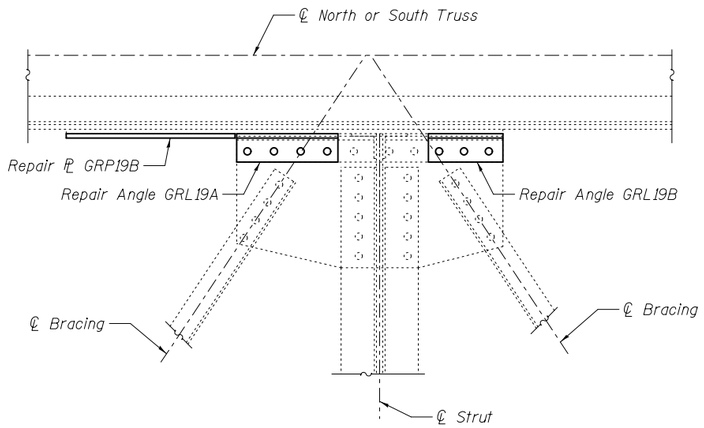
INSIDE ELEVATION



SECTION A-A

GUSSET PLATE L2 AND L2'

Field cut/cope new materials to accommodate existing fasteners not used in repair, as required.



SECTION B-B

REPAIR LOCATIONS

Span	Joint	Truss	Inner ℄	Outer ℄
14	L2	North	1	1
14	L2'	North	1	1
14	L2'	South	1	1

LEGEND

- ◌ Existing fastener to remain
- ● New 7/8" ϕ A325 bolt in new 15/16" ϕ hole (shop or field drilled)
- ○ Replace existing fastener with new 7/8" ϕ A325 bolt in existing hole. Holes in new material shall be field drilled using existing members as a template.

Notes:

For gusset repair general notes and procedures, see Sheet 23 of 112.

The Contractor shall field verify existing conditions, including gusset plates, connection plates, connection angles, miscellaneous steel and layout of the fastener holes prior to ordering new materials.

For Detail 1 (Sealant), see Sheet 23 of 112.

BILL OF MATERIAL

Item	Unit	Total
Structural Steel Repair	Pound	870

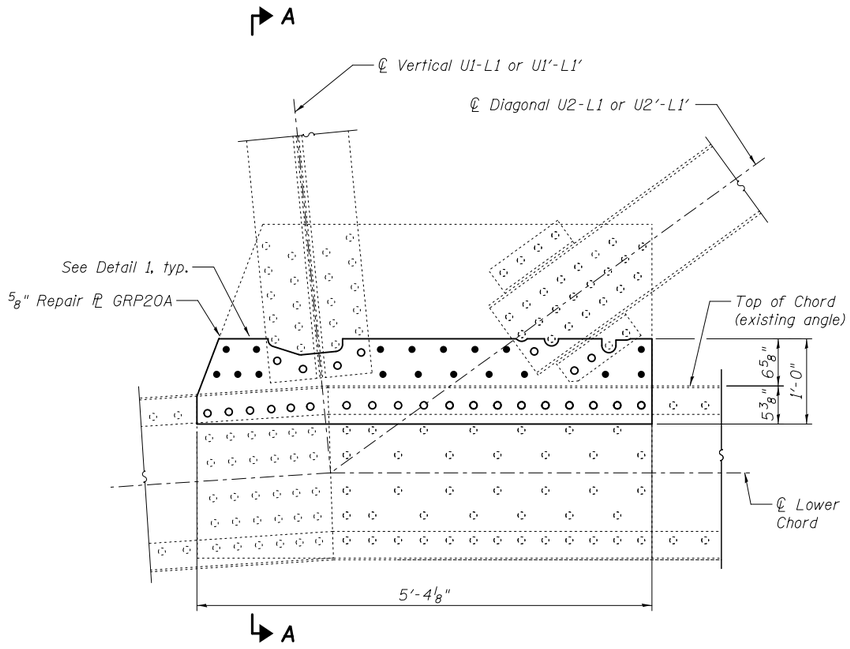
MODJESKI and MASTERS
Experience great bridges.

USER NAME =	DESIGNED - ZWE	REVISED
	CHECKED - YSS	REVISED
PLOT SCALE =	DRAWN - PRC	REVISED
PLOT DATE = 10/05/2015	CHECKED - RLM	REVISED

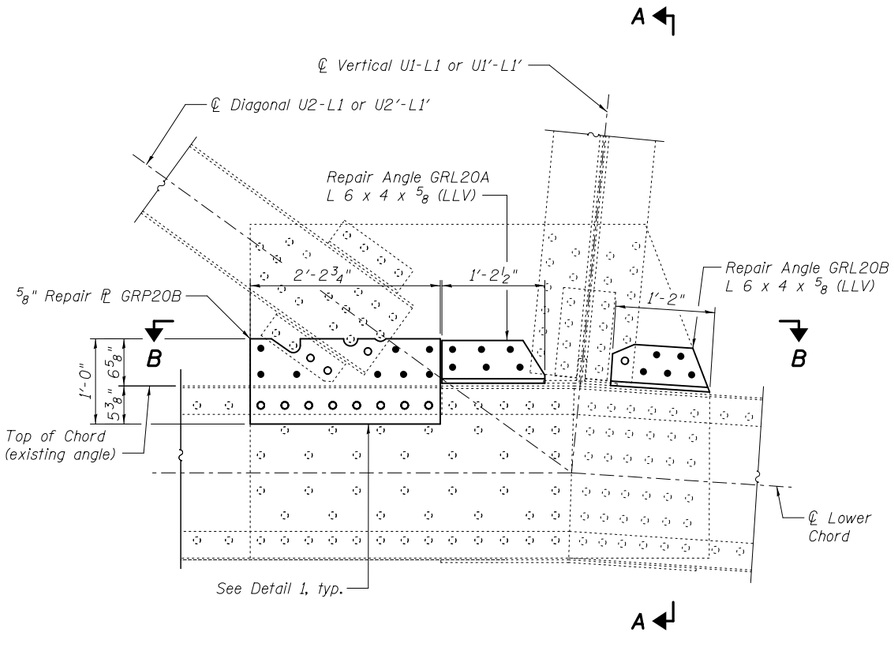
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

GUSSET PLATE REPAIRS – 19
S.N. 090–0030 CEDAR STREET BRIDGE OVER ILLINOIS RIVER
SHEET NO. 42 OF 112 SHEETS

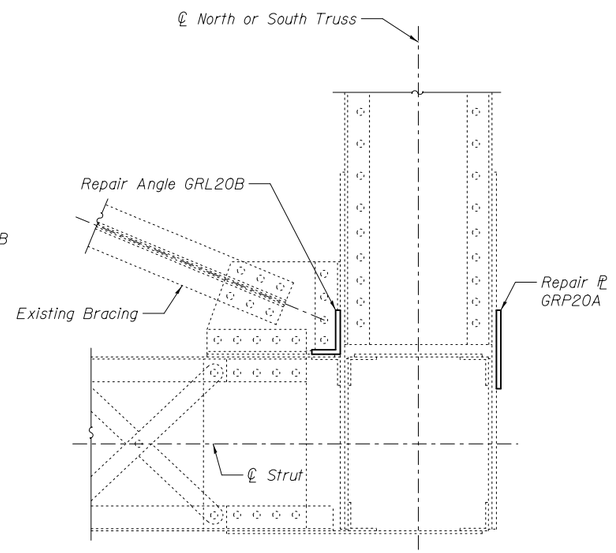
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
669	(103B)I-7	PEORIA/TAZEWELL	180	110
		CONTRACT NO. 68A93		
	ILLINOIS	FED. AID PROJECT		



OUTSIDE ELEVATION



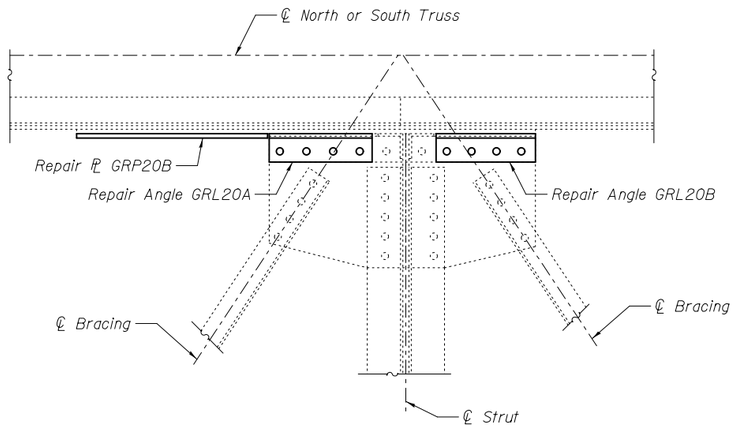
INSIDE ELEVATION



SECTION A-A

GUSSET PLATE L1 AND L1′

Field cut/cope new materials to accommodate existing fasteners not used in repair, as required.



SECTION B-B

REPAIR LOCATIONS

Span	Joint	Truss	Inner ℙ	Outer ℙ
14	L1	North	1	1
14	L1	South	1	1
14	L1′	North	1	1
14	L1′	South	1	N/A

LEGEND

- ◌ Existing fastener to remain
- ● New 7/8" ϕ A325 bolt in new 15/16" ϕ hole (shop or field drilled)
- ○ Replace existing fastener with new 7/8" ϕ A325 bolt in existing hole. Holes in new material shall be field drilled using existing members as a template.

Notes:

For gusset repair general notes and procedures, see Sheet 23 of 112.

The Contractor shall field verify existing conditions, including gusset plates, connection plates, connection angles, miscellaneous steel and layout of the fastener holes prior to ordering new materials.

For Detail 1 (Sealant), see Sheet 23 of 112.

BILL OF MATERIAL

Item	Unit	Total
Structural Steel Repair	Pound	1080

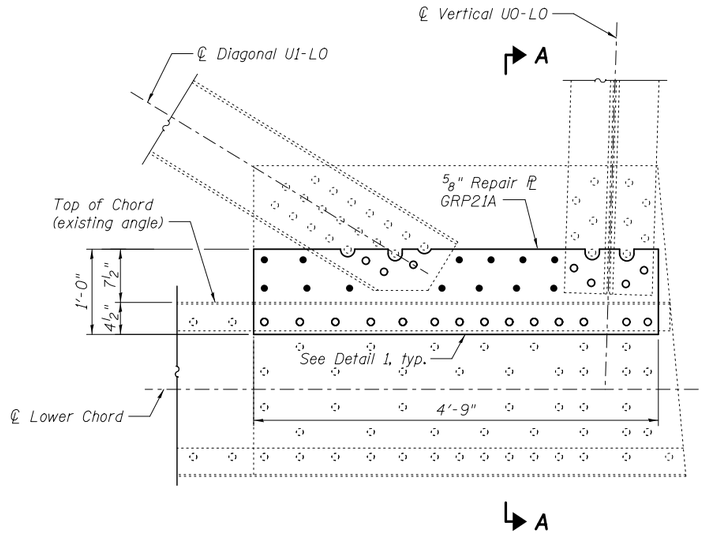
MODJESKI and MASTERS
Experience great bridges.

USER NAME =	DESIGNED - ZWE	REVISED
	CHECKED - YSS	REVISED
PLOT SCALE =	DRAWN - PRC	REVISED
PLOT DATE = 10/05/2015	CHECKED - RLM	REVISED

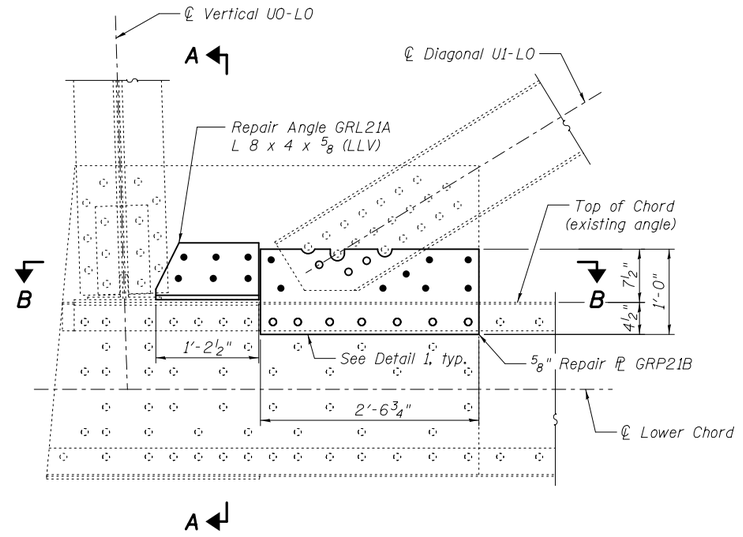
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

GUSSET PLATE REPAIRS – 20
S.N. 090–0030 CEDAR STREET BRIDGE OVER ILLINOIS RIVER
SHEET NO. 43 OF 112 SHEETS

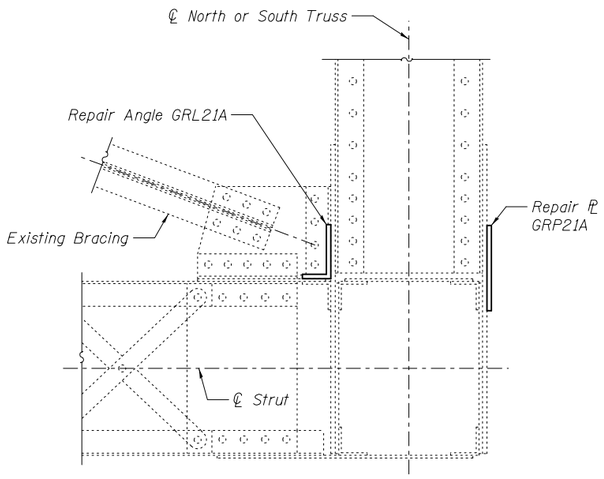
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
669	(103B)I-7	PEORIA/TAZEWELL	180	111
		CONTRACT NO. 68A93		
	ILLINOIS	FED. AID PROJECT		



OUTSIDE ELEVATION



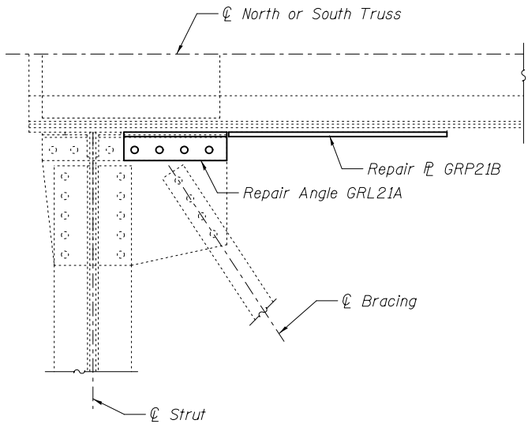
INSIDE ELEVATION



SECTION A-A

GUSSET PLATE L0

Field cut/cope new materials to accommodate existing fasteners not used in repair, as required.



SECTION B-B

REPAIR LOCATIONS

Span	Joint	Truss	Inner ℄	Outer ℄
14	L0	North	1	1
14	L0	South	1	1

LEGEND

- ◌ Existing fastener to remain
- ● New 7/8" ϕ A325 bolt in new 15/16" ϕ hole (shop or field drilled)
- ○ Replace existing fastener with new 7/8" ϕ A325 bolt in existing hole. Holes in new material shall be field drilled using existing members as a template.

Notes:

For gusset repair general notes and procedures, see Sheet 23 of 112.

The Contractor shall field verify existing conditions, including gusset plates, connection plates, connection angles, miscellaneous steel and layout of the fastener holes prior to ordering new materials.

For Detail 1 (Sealant), see Sheet 23 of 112.

BILL OF MATERIAL

Item	Unit	Total
Structural Steel Repair	Pound	540

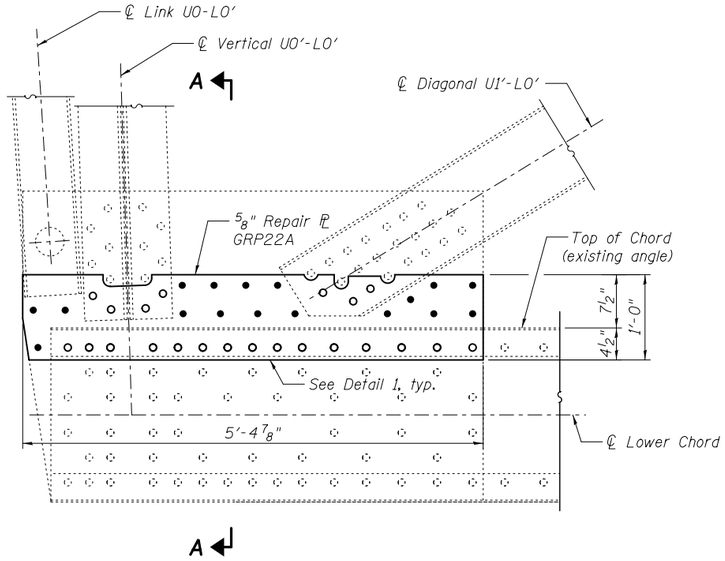
MODJESKI and MASTERS
Experience great bridges.

USER NAME =	DESIGNED - ZWE	REVISED
	CHECKED - YSS	REVISED
PLOT SCALE =	DRAWN - PRC	REVISED
PLOT DATE = 10/05/2015	CHECKED - RLM	REVISED

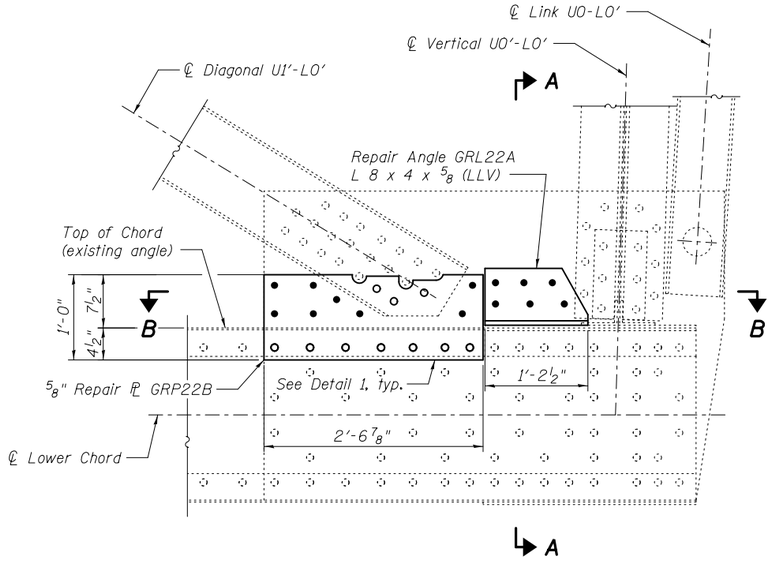
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

GUSSET PLATE REPAIRS – 21
S.N. 090–0030 CEDAR STREET BRIDGE OVER ILLINOIS RIVER
SHEET NO. 44 OF 112 SHEETS

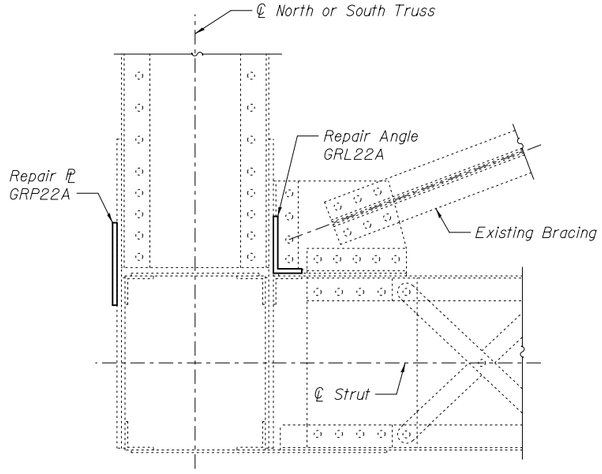
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
669	(103B)I-7	PEORIA/TAZEWELL	180	112
		CONTRACT NO. 68A93		
	ILLINOIS FED. AID PROJECT			



OUTSIDE ELEVATION



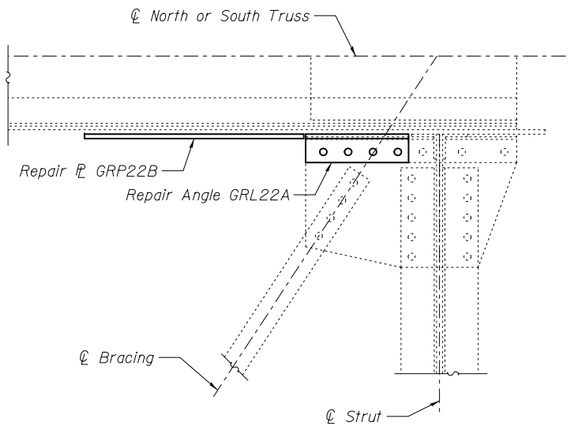
INSIDE ELEVATION



SECTION A-A

GUSSET PLATE L0′

Field cut/cope new materials to accommodate existing fasteners not used in repair, as required.



SECTION B-B

REPAIR LOCATIONS

Span	Joint	Truss	Inner ℄	Outer ℄
14	L0′	North	1	1
14	L0′	South	1	1

LEGEND

- ⁘ Existing fastener to remain
- ● New 7/8" ϕ A325 bolt in new 15/16" ϕ hole (shop or field drilled)
- ○ Replace existing fastener with new 7/8" ϕ A325 bolt in existing hole. Holes in new material shall be field drilled using existing members as a template.

Notes:

For gusset repair general notes and procedures, see Sheet 23 of 112.

The Contractor shall field verify existing conditions, including gusset plates, connection plates, connection angles, miscellaneous steel and layout of the fastener holes prior to ordering new materials.

For Detail 1 (Sealant), see Sheet 23 of 112.

BILL OF MATERIAL

Item	Unit	Total
Structural Steel Repair	Pound	590

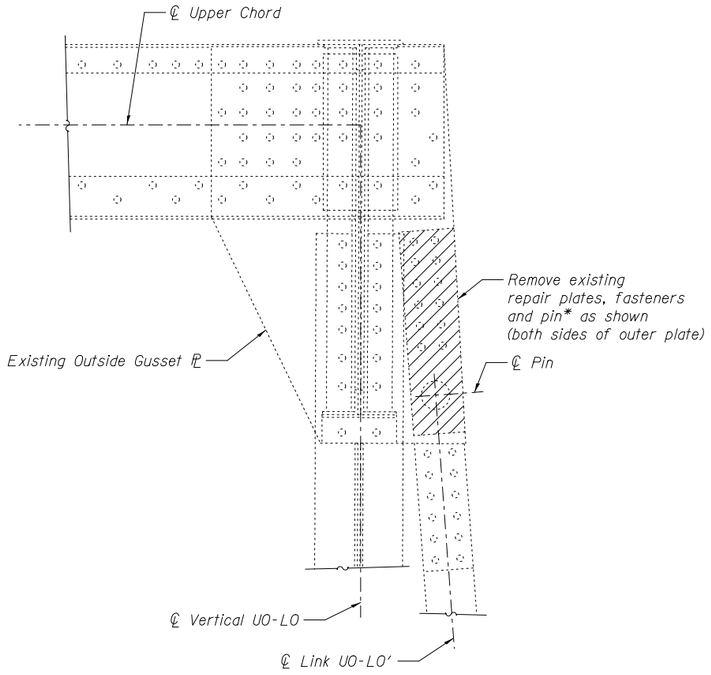
MODJESKI and MASTERS
Experience great bridges.

USER NAME =	DESIGNED - ZWE	REVISED
	CHECKED - YSS	REVISED
PLOT SCALE =	DRAWN - PRC	REVISED
PLOT DATE = 10/05/2015	CHECKED - RLM	REVISED

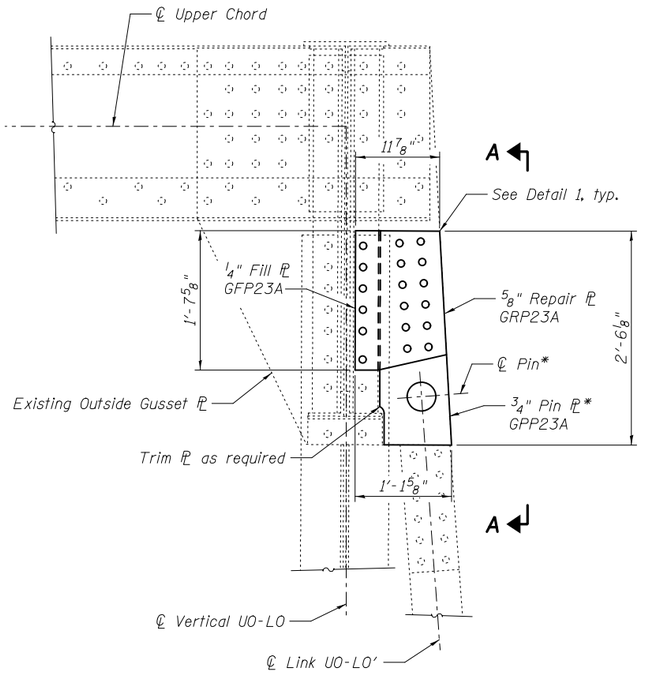
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

GUSSET PLATE REPAIRS – 22
S.N. 090–0030 CEDAR STREET BRIDGE OVER ILLINOIS RIVER
SHEET NO. 45 OF 112 SHEETS

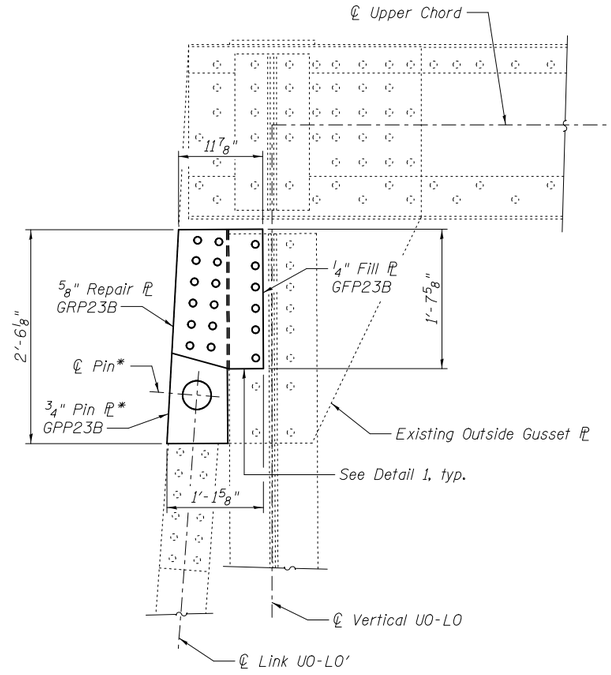
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
669	(103B)I-7	PEORIA/TAZEWELL	180	113
		CONTRACT NO. 68A93		
ILLINOIS	FED. AID PROJECT			



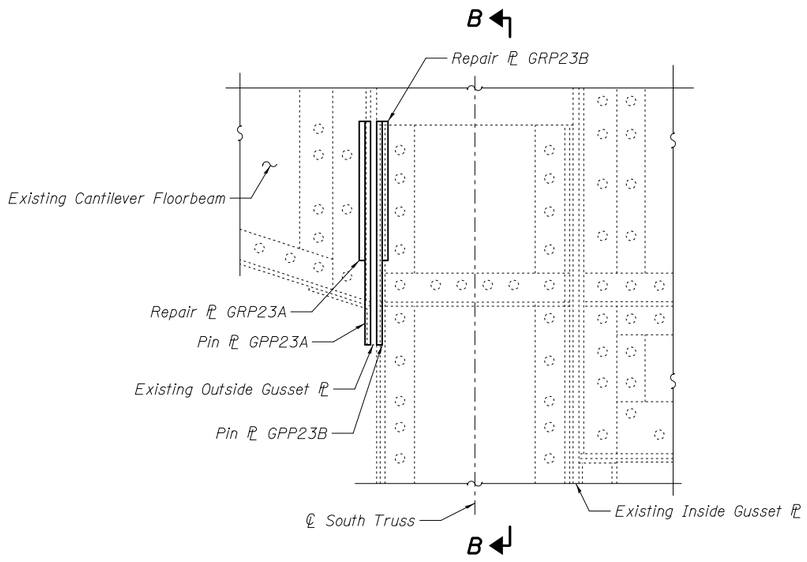
OUTSIDE ELEVATION EXISTING PLATE REMOVAL



OUTSIDE ELEVATION REPAIR PLATE INSTALLATION



VIEW B-B



VIEW A-A

GUSSET PLATE U0S

* Pin to be removed and replaced. Hole in existing gusset plate to be line bored to required diameter for new pin and bushing, see Sheet 74 and 75 of 112. Hole in proposed $\frac{3}{4}$" pin plates to be shop drilled to $3\frac{3}{4}$" and field bored to final diameter with existing gusset plate to ensure proper fit.

REPAIR LOCATIONS

Span	Joint	Truss	Inner ℙ	Outer ℙ
14	U0	South	N/A	1

LEGEND

- Existing fastener to remain
- Replace existing fastener with new $\frac{7}{8}$" ϕ A325 bolt in existing hole. Holes in new material shall be field drilled using existing members as a template.

Notes:

For gusset repair general notes and procedures, see Sheet 23 of 112.

The Contractor shall field verify existing conditions, including gusset plates, connection plates, connection angles, miscellaneous steel and layout of the fastener holes prior to ordering new materials.

For Detail 1 (Sealant), see Sheet 23 of 112.

Work on this sheet to be completed in coordination with main span pin and link replacements shown on Sheet 74 and 75 of 112.

BILL OF MATERIAL

Item	Unit	Total
Structural Steel Repair	Pound	250

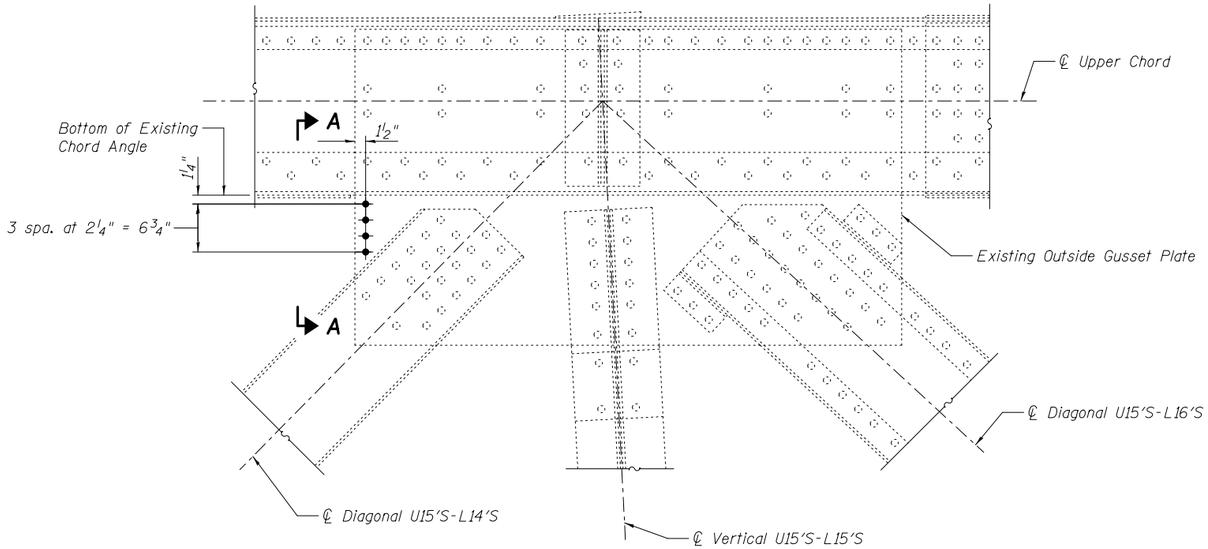
MODJESKI and MASTERS experience great bridges.

USER NAME =	DESIGNED - RLM	REVISED	
	CHECKED - YSS	REVISED	
PLOT SCALE =	DRAWN - PRC	REVISED	
PLOT DATE = 10/05/2015	CHECKED - RLM	REVISED	

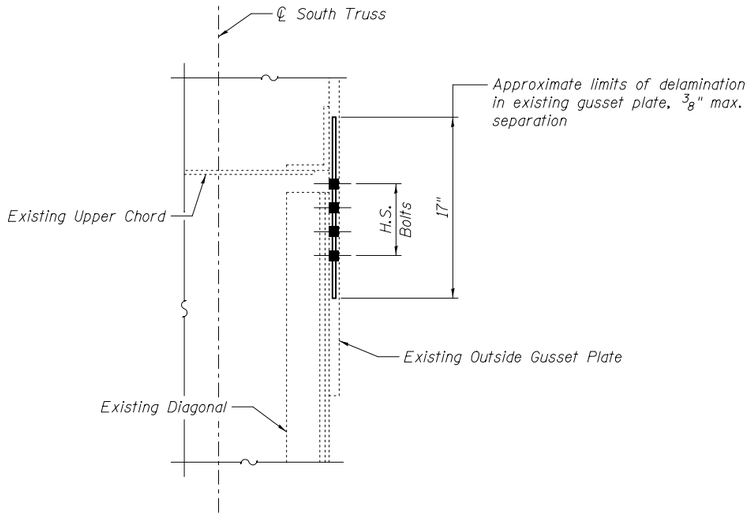
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

GUSSET PLATE REPAIRS – 23
S.N. 090–0030 CEDAR STREET BRIDGE OVER ILLINOIS RIVER
SHEET NO. 46 OF 112 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
669	(103B)I-7	PEORIA/TAZEWELL	180	114
		CONTRACT NO. 68A93		
	ILLINOIS	FED. AID PROJECT		



OUTSIDE ELEVATION
GUSSET PLATE U15'S



SECTION A-A

REPAIR LOCATION

Span	Joint	Truss	Inner PL	Outer PL
15	U15'	South	N/A	1

LEGEND

- Existing fastener to remain
- New 7/8" ϕ A325 bolt in new 15/16" ϕ hole

Repair Procedure:

1. Clean delamination in accordance with the special provision for Cleaning and Painting Existing Steel Structures per the section titled Water Cleaning of Lead Containing Coatings Prior to Overcoating.
2. Install fully tensioned high-strength bolts as shown.
3. Seal edge of delamination with approved sealant.
4. Paint repair area with Paint System 2 PS/EM/U in accordance with the special provision for Cleaning and Painting Existing Steel Structures.

Notes:
For gusset repair general notes and procedures, see Sheet 23 of 112.
The sealant shall be a polyurethane sealant compatible with the proposed paint system. The Contractor shall submit the sealant to the Engineer for approval prior to use.
Cost of cleaning, sealing and painting delamination included with Structural Steel Repair.

BILL OF MATERIAL

Item	Unit	Total
Structural Steel Repair	Pound	10

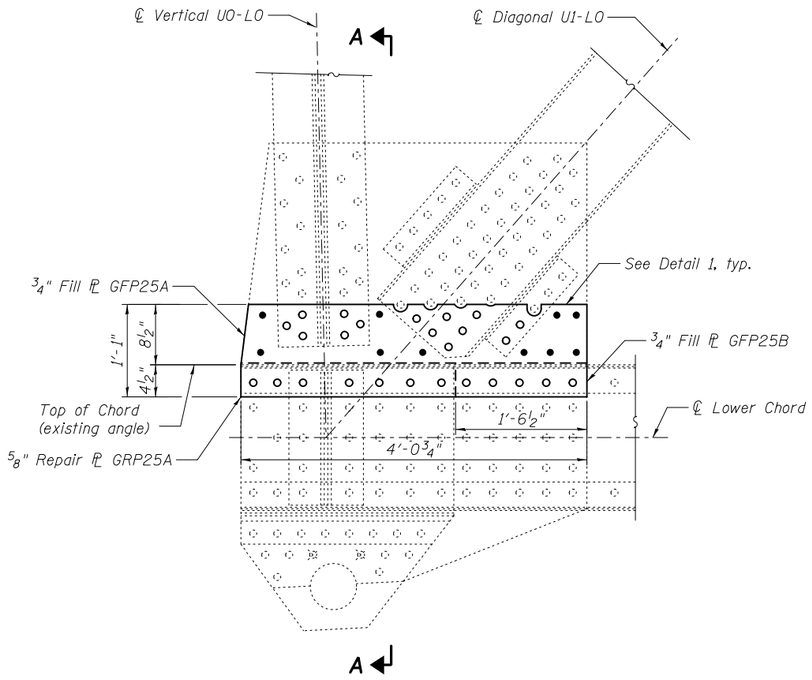
MODJESKI and MASTERS
Experience great bridges.

USER NAME =	DESIGNED - ZWE	REVISED
	CHECKED - YSS	REVISED
PLOT SCALE =	DRAWN - PRC	REVISED
PLOT DATE = 10/05/2015	CHECKED - RLM	REVISED

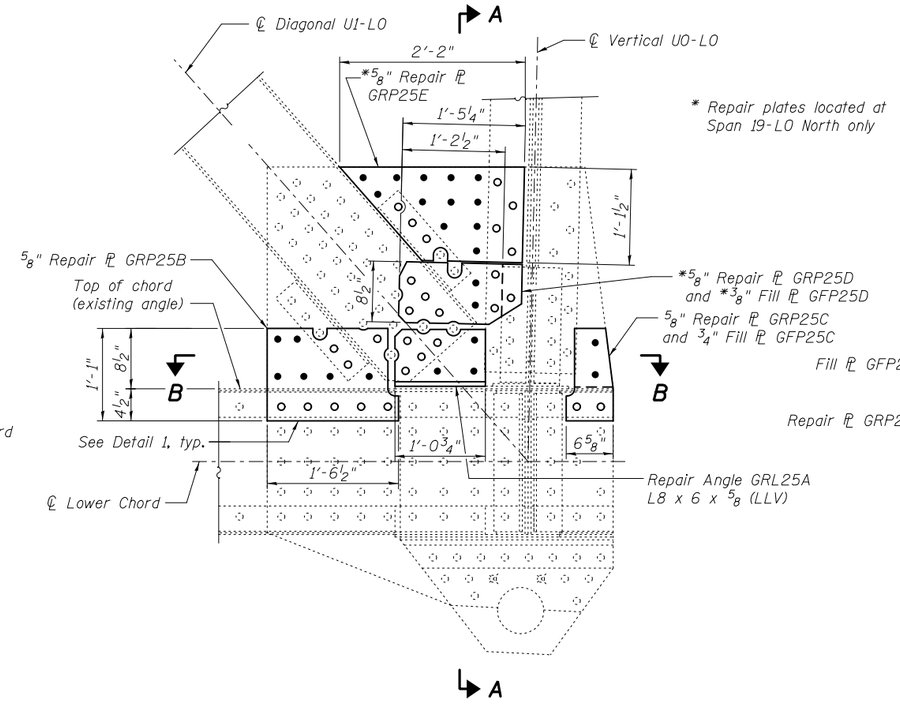
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

GUSSET PLATE REPAIRS – 24
S.N. 090–0030 CEDAR STREET BRIDGE OVER ILLINOIS RIVER
SHEET NO. 47 OF 112 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
669	(103B)I-7	PEORIA/TAZEWELL	180	115
		CONTRACT NO. 68A93		
	ILLINOIS FED. AID PROJECT			

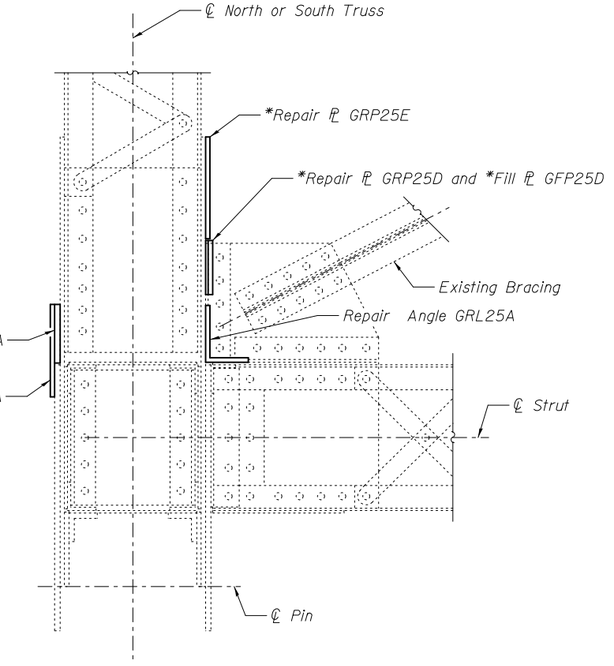


OUTSIDE ELEVATION

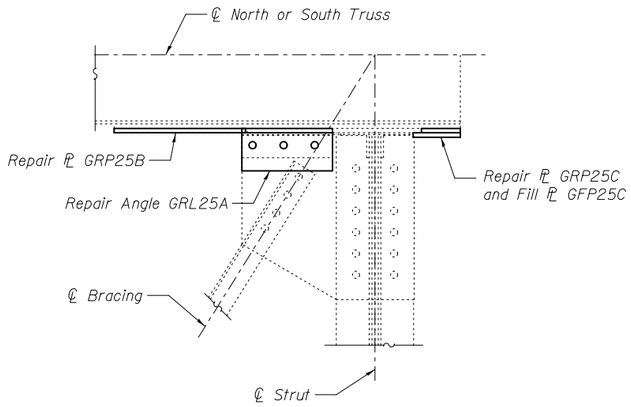


* Repair plates located at Span 19-L0 North only

INSIDE ELEVATION



SECTION A-A



SECTION B-B

GUSSET PLATE L0

Field cut/cope new materials to accommodate existing fasteners not used in repair, as required.

REPAIR LOCATIONS

Span	Joint	Truss	Inner ℄	Outer ℄
18	L0	North	1	1
18	L0	South	1	1
19	L0	North	1	1
19	L0	South	1	1

LEGEND

- ◌ Existing fastener to remain
- ● New 7/8" ϕ A325 bolt in new 15/16" ϕ hole (shop or field drilled)
- ○ Replace existing fastener with new 7/8" ϕ A325 bolt in existing hole. Holes in new material shall be field drilled using existing members as a template.

Notes:

For gusset repair general notes and procedures, see Sheet 23 of 112.

The Contractor shall field verify existing conditions, including gusset plates, connection plates, connection angles, miscellaneous steel and layout of the fastener holes prior to ordering new materials.

For Detail 1 (Sealant), see Sheet 23 of 112.

BILL OF MATERIAL

Item	Unit	Total
Structural Steel Repair	Pound	1620

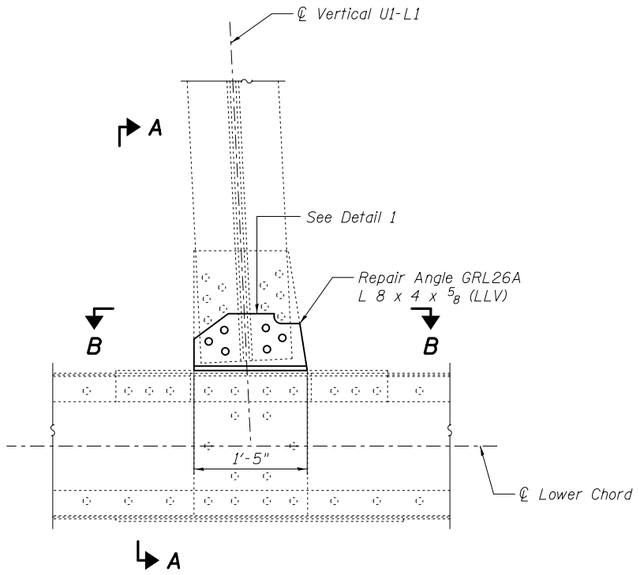
MODJESKI and MASTERS
Experience great bridges.

USER NAME =	DESIGNED - ZWE	REVISED
	CHECKED - YSS	REVISED
PLOT SCALE =	DRAWN - PRC	REVISED
PLOT DATE = 10/05/2015	CHECKED - RLM	REVISED

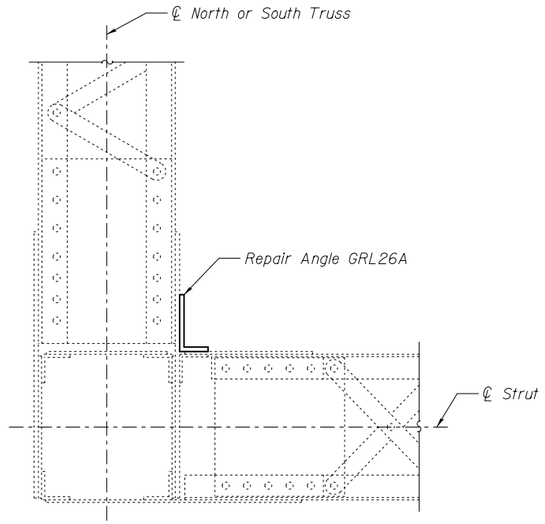
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

GUSSET PLATE REPAIRS – 25
S.N. 090–0030 CEDAR STREET BRIDGE OVER ILLINOIS RIVER
SHEET NO. 48 OF 112 SHEETS

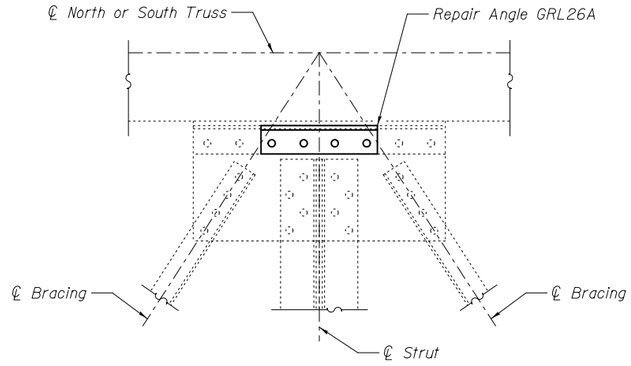
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
669	(103B)I-7	PEORIA/TAZEWELL	180	116
		CONTRACT NO. 68A93		
	ILLINOIS FED. AID PROJECT			



INSIDE ELEVATION



SECTION A-A



SECTION B-B

GUSSET PLATE L1

Field cut/cope new materials to accommodate existing fasteners not used in repair, as required.

REPAIR LOCATIONS

Span	Joint	Truss	Inner ℄	Outer ℄
18	L1	North	1	N/A
18	L1	South	1	N/A

LEGEND

- Existing fastener to remain
- New 7/8" ϕ A325 bolt in new 15/16" ϕ hole (shop or field drilled)
- Replace existing fastener with new 7/8" ϕ A325 bolt in existing hole. Holes in new material shall be field drilled using existing members as a template.

Notes:

For gusset repair general notes and procedures, see Sheet 23 of 112.

The Contractor shall field verify existing conditions, including gusset plates, connection plates, connection angles, miscellaneous steel and layout of the fastener holes prior to ordering new materials.

For Detail 1 (Sealant), see Sheet 23 of 112.

BILL OF MATERIAL

Item	Unit	Total
Structural Steel Repair	Pound	90

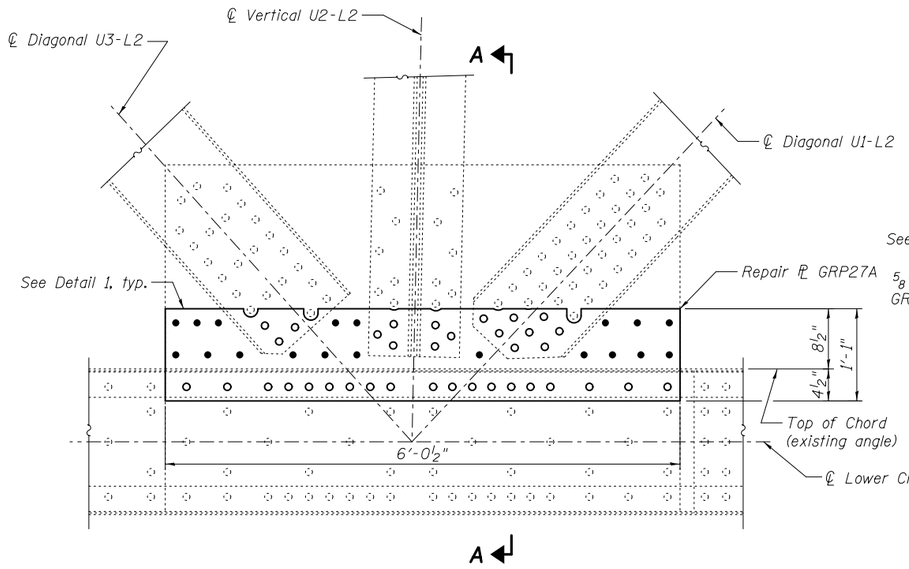
MODJESKI and MASTERS
Experience great bridges.

USER NAME =	DESIGNED - ZWE	REVISED
	CHECKED - YSS	REVISED
PLOT SCALE =	DRAWN - PRC	REVISED
PLOT DATE = 10/05/2015	CHECKED - RLM	REVISED

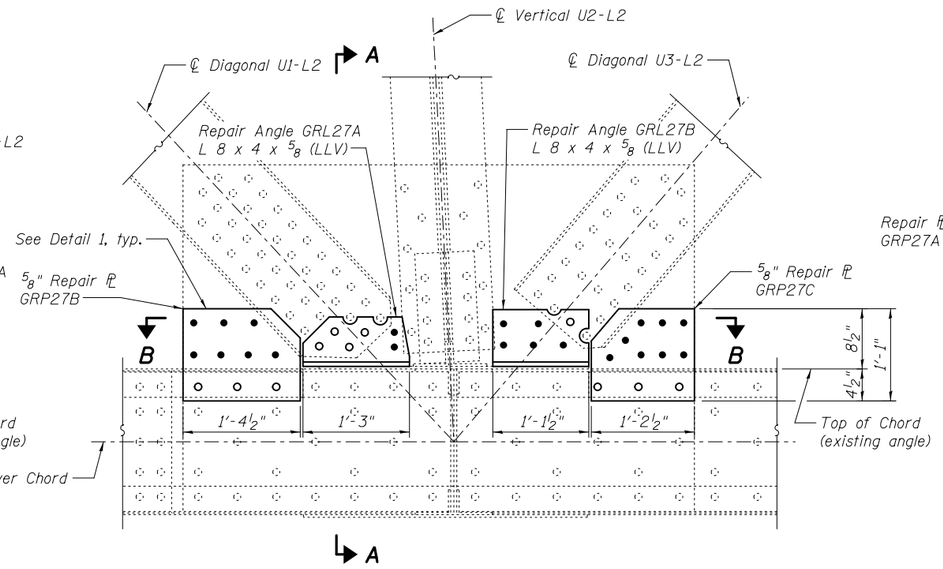
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

GUSSET PLATE REPAIRS – 26
S.N. 090–0030 CEDAR STREET BRIDGE OVER ILLINOIS RIVER
SHEET NO. 49 OF 112 SHEETS

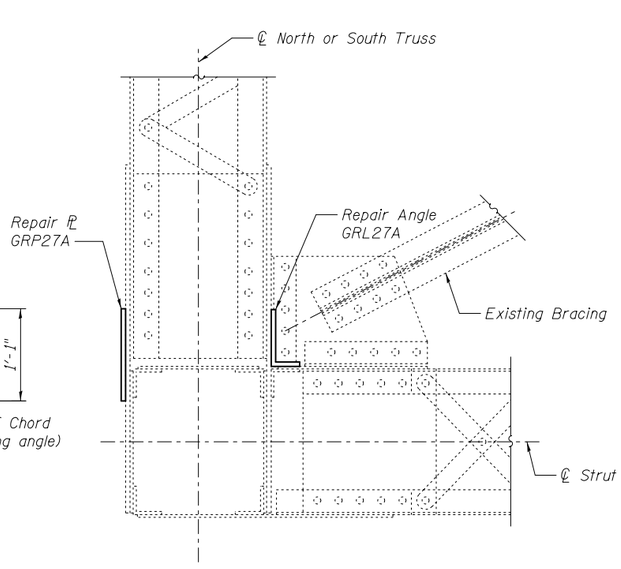
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
669	(103B)I-7	PEORIA/TAZEWELL	180	117
			CONTRACT NO. 68A93	
	ILLINOIS	FED. AID PROJECT		



OUTSIDE ELEVATION



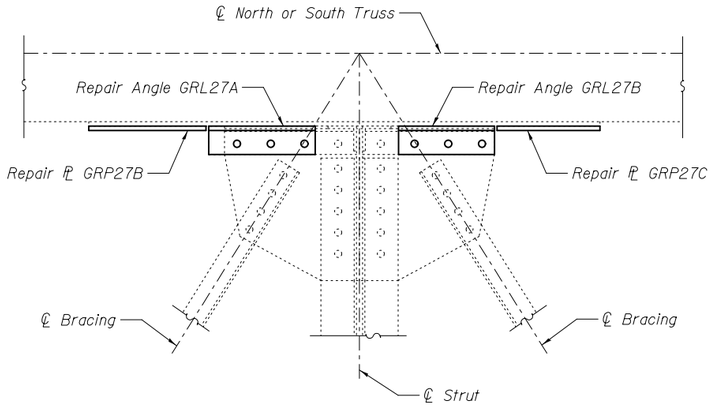
INSIDE ELEVATION



SECTION A-A

GUSSET PLATE L2

Field cut/cope new materials to accommodate existing fasteners not used in repair, as required.



SECTION B-B

REPAIR LOCATIONS

Span	Joint	Truss	Inner ℄	Outer ℄
18	L2	North	1	N/A
19	L2	North	N/A	1
19	L2	South	1	N/A

LEGEND

- ⁘ Existing fastener to remain
- ● New 7/8" ϕ A325 bolt in new 15/16" ϕ hole (shop or field drilled)
- ○ Replace existing fastener with new 7/8" ϕ A325 bolt in existing hole. Holes in new material shall be field drilled using existing members as a template.

Notes:
For gusset repair general notes and procedures, see Sheet 23 of 112.
The Contractor shall field verify existing conditions, including gusset plates, connection plates, connection angles, miscellaneous steel and layout of the fastener holes prior to ordering new materials.
For Detail 1 (Sealant), see Sheet 23 of 112.

BILL OF MATERIAL

Item	Unit	Total
Structural Steel Repair	Pound	540

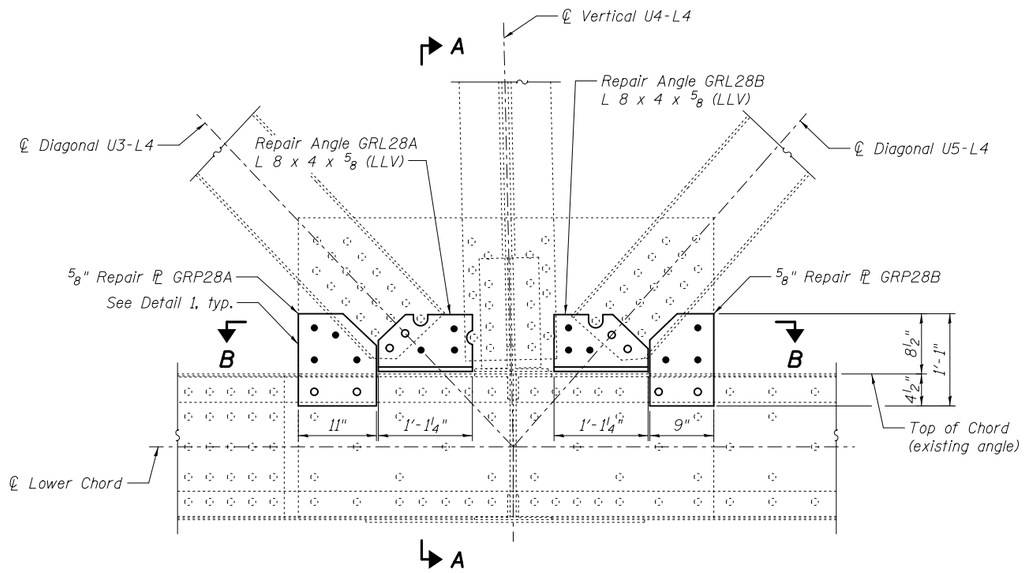
MODJESKI and MASTERS
Experience great bridges.

USER NAME =	DESIGNED - ZWE	REVISED
	CHECKED - YSS	REVISED
PLOT SCALE =	DRAWN - PRC	REVISED
PLOT DATE = 10/05/2015	CHECKED - RLM	REVISED

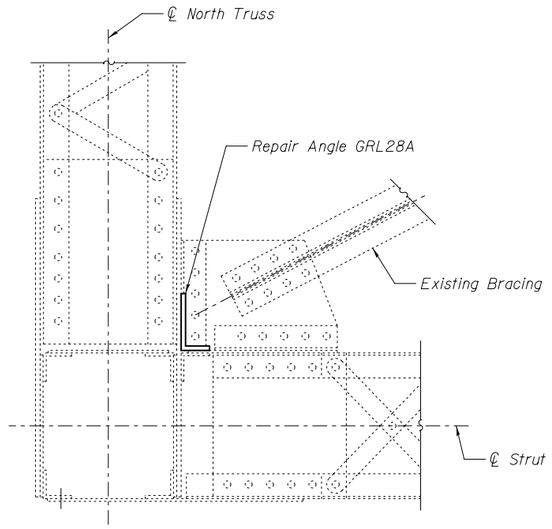
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

GUSSET PLATE REPAIRS – 27
S.N. 090–0030 CEDAR STREET BRIDGE OVER ILLINOIS RIVER
SHEET NO. 50 OF 112 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
669	(103B)I-7	PEORIA/TAZEWELL	180	118
			CONTRACT NO. 68A93	
	ILLINOIS	FED. AID PROJECT		



INSIDE ELEVATION



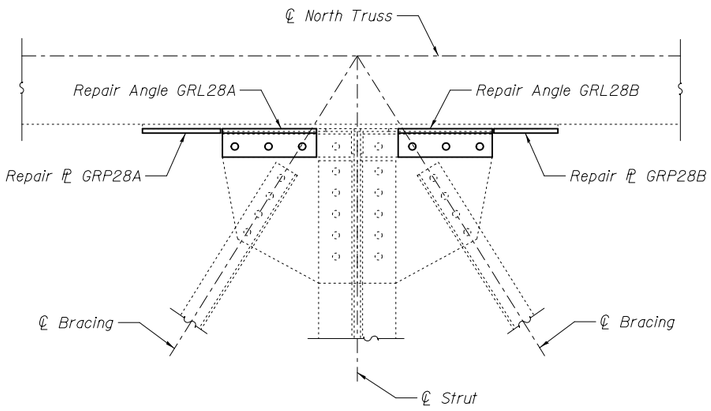
SECTION A-A

GUSSET PLATE L4

Field cut/cope new materials to accommodate existing fasteners not used in repair, as required.

REPAIR LOCATION

Span	Joint	Truss	Inner PL	Outer PL
19	L4	North	1	N/A



SECTION B-B

LEGEND

- Existing fastener to remain
- New 7/8" ϕ A325 bolt in new 15/16" ϕ hole (shop or field drilled)
- Replace existing fastener with new 7/8" ϕ A325 bolt in existing hole. Holes in new material shall be field drilled using existing members as a template.

Notes:

For gusset repair general notes and procedures, see Sheet 23 of 112.

The Contractor shall field verify existing conditions, including gusset plates, connection plates, connection angles, miscellaneous steel and layout of the fastener holes prior to ordering new materials.

For Detail 1 (Sealant), see Sheet 23 of 112.

BILL OF MATERIAL

Item	Unit	Total
Structural Steel Repair	Pound	130

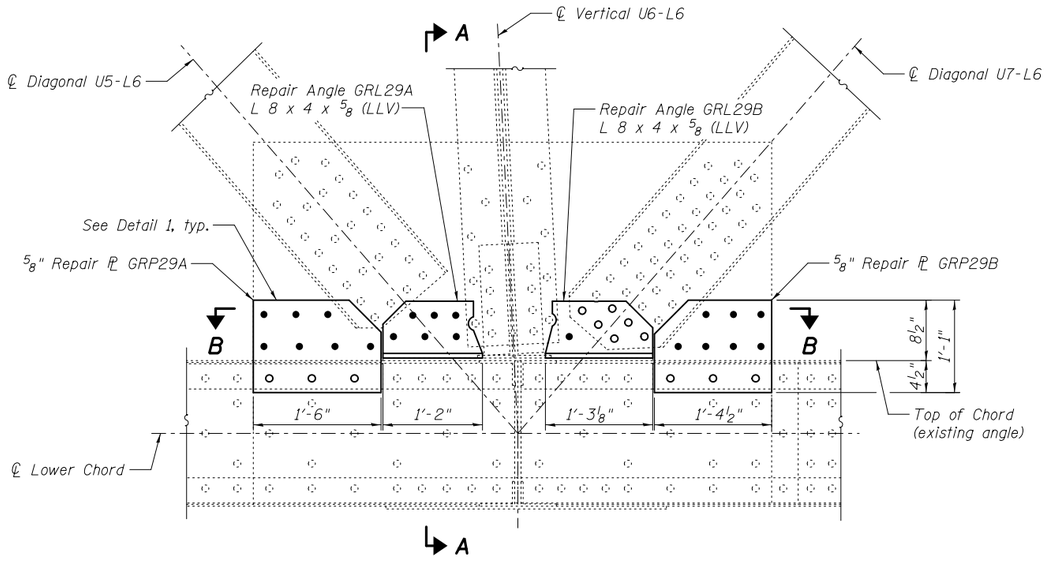
MODJESKI and MASTERS
Experience great bridges.

USER NAME =	DESIGNED - ZWE	REVISED
	CHECKED - YSS	REVISED
PLOT SCALE =	DRAWN - PRC	REVISED
PLOT DATE = 10/05/2015	CHECKED - RLM	REVISED

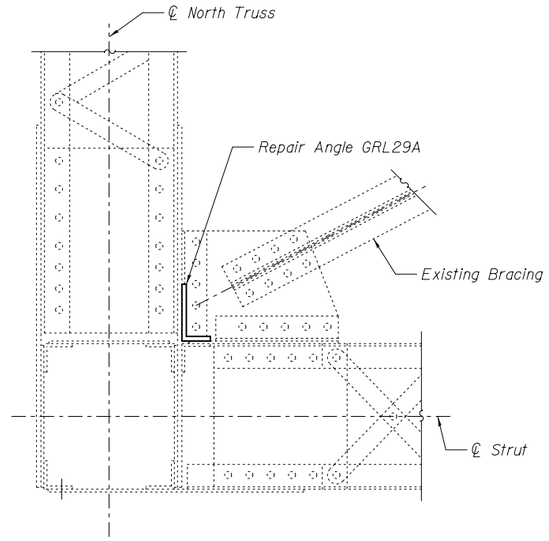
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

GUSSET PLATE REPAIRS – 28
S.N. 090–0030 CEDAR STREET BRIDGE OVER ILLINOIS RIVER
SHEET NO. 51 OF 112 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
669	(103B)I-7	PEORIA/TAZEWELL	180	119
		CONTRACT NO. 68A93		
	ILLINOIS	FED. AID PROJECT		



INSIDE ELEVATION



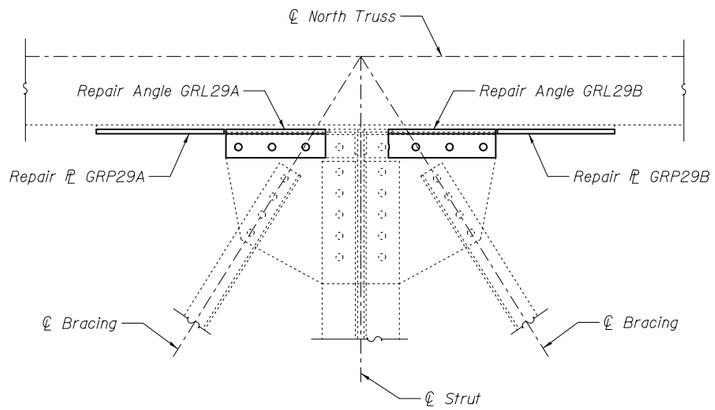
SECTION A-A

GUSSET PLATE L6

Field cut/cope new materials to accommodate existing fasteners not used in repair, as required.

REPAIR LOCATIONS

Span	Joint	Truss	Inner ℄	Outer ℄
18	L6	North	1	N/A
19	L6	North	1	N/A



SECTION B-B

LEGEND

- ◌ Existing fastener to remain
- ● New 7/8" ϕ A325 bolt in new 15/16" ϕ hole (shop or field drilled)
- ○ Replace existing fastener with new 7/8" ϕ A325 bolt in existing hole. Holes in new material shall be field drilled using existing members as a template.

Notes:

For gusset repair general notes and procedures, see Sheet 23 of 112.

The Contractor shall field verify existing conditions, including gusset plates, connection plates, connection angles, miscellaneous steel and layout of the fastener holes prior to ordering new materials.

For Detail 1 (Sealant), see Sheet 23 of 112.

BILL OF MATERIAL

Item	Unit	Total
Structural Steel Repair	Pound	180

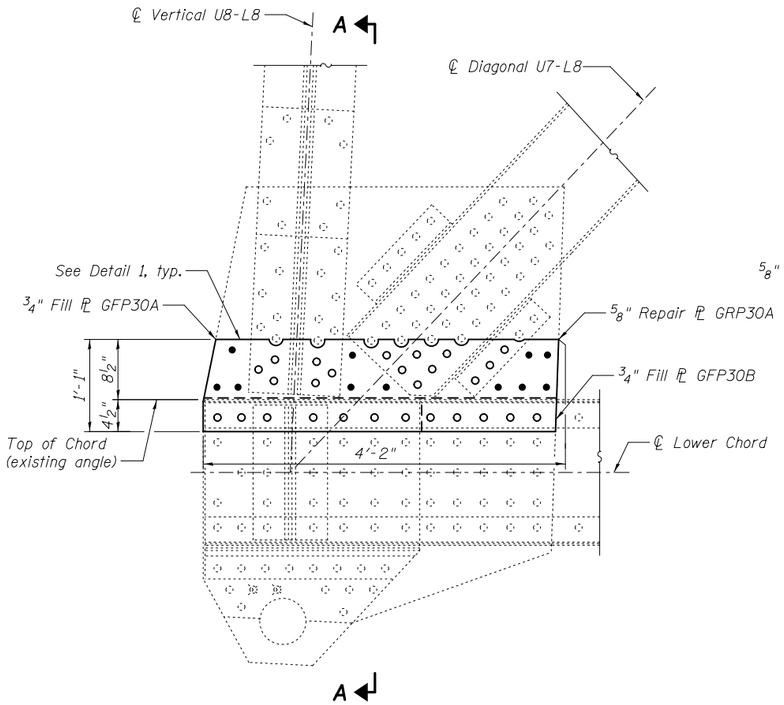
MODJESKI and MASTERS
Experience great bridges.

USER NAME =	DESIGNED - ZWE	REVISED
	CHECKED - YSS	REVISED
PLOT SCALE =	DRAWN - PRC	REVISED
PLOT DATE = 10/05/2015	CHECKED - RLM	REVISED

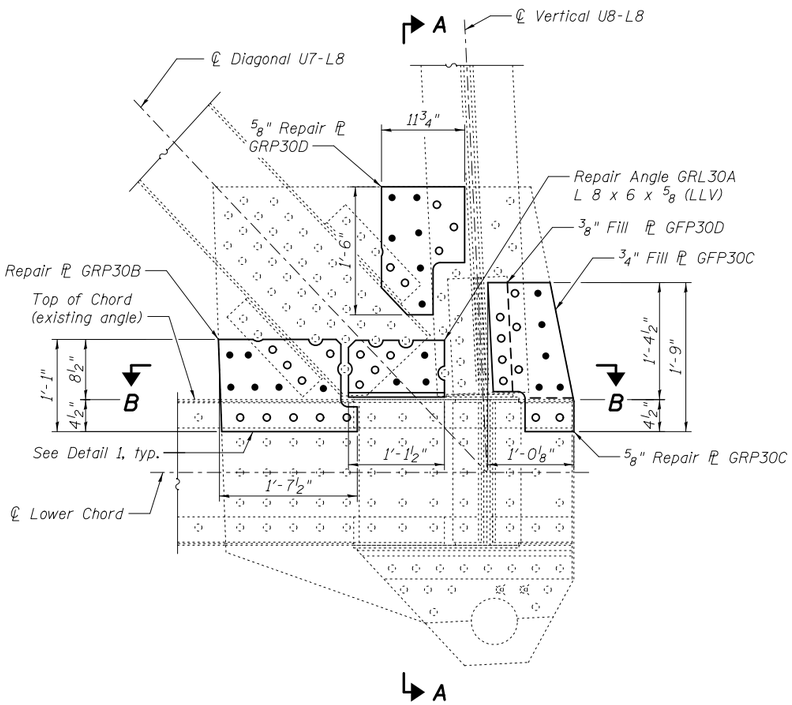
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

GUSSET PLATE REPAIRS – 29
S.N. 090–0030 CEDAR STREET BRIDGE OVER ILLINOIS RIVER
SHEET NO. 52 OF 112 SHEETS

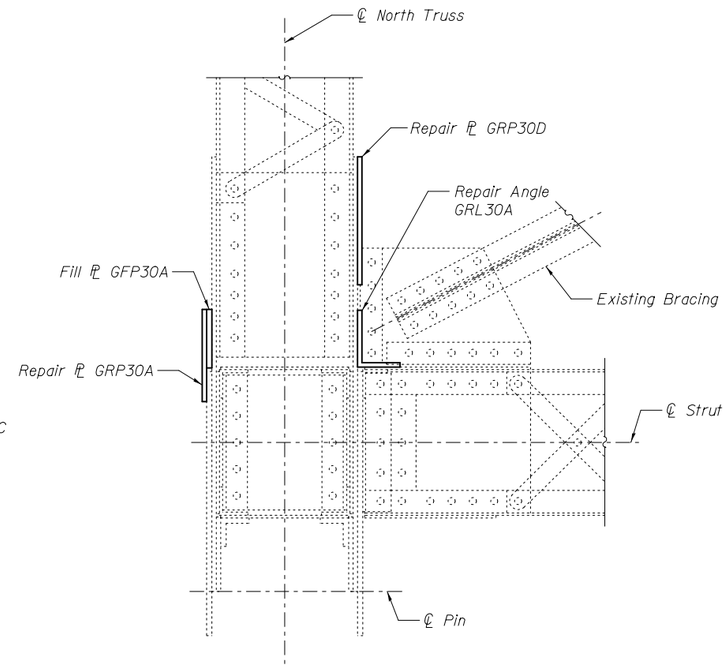
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
669	(103B)I-7	PEORIA/TAZEWELL	180	120
		CONTRACT NO. 68A93		
	ILLINOIS FED. AID PROJECT			



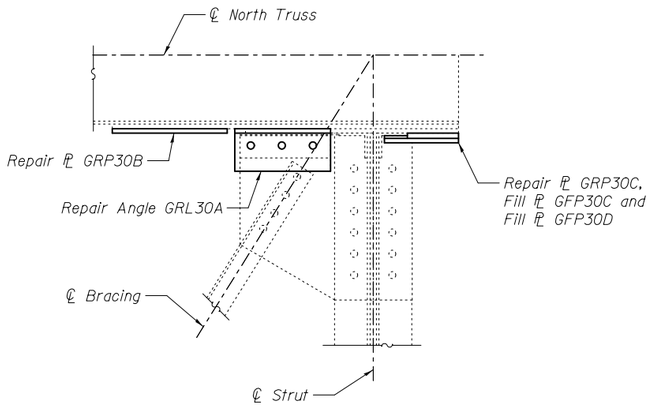
OUTSIDE ELEVATION



INSIDE ELEVATION



SECTION A-A



SECTION B-B

GUSSET PLATE L8

Field cut/cope new materials to accommodate existing fasteners not used in repair, as required.

REPAIR LOCATIONS

Span	Joint	Truss	Inner ℄	Outer ℄
18	L8	North	1	1

LEGEND

- ◌ Existing fastener to remain
- ● New 7/8" ϕ A325 bolt in new 15/16" ϕ hole (shop or field drilled)
- ○ Replace existing fastener with new 7/8" ϕ A325 bolt in existing hole. Holes in new material shall be field drilled using existing members as a template.

Notes:

For gusset repair general notes and procedures, see Sheet 23 of 112.

The Contractor shall field verify existing conditions, including gusset plates, connection plates, connection angles, miscellaneous steel and layout of the fastener holes prior to ordering new materials.

For Detail 1 (Sealant), see Sheet 23 of 112.

BILL OF MATERIAL

Item	Unit	Total
Structural Steel Repair	Pound	500

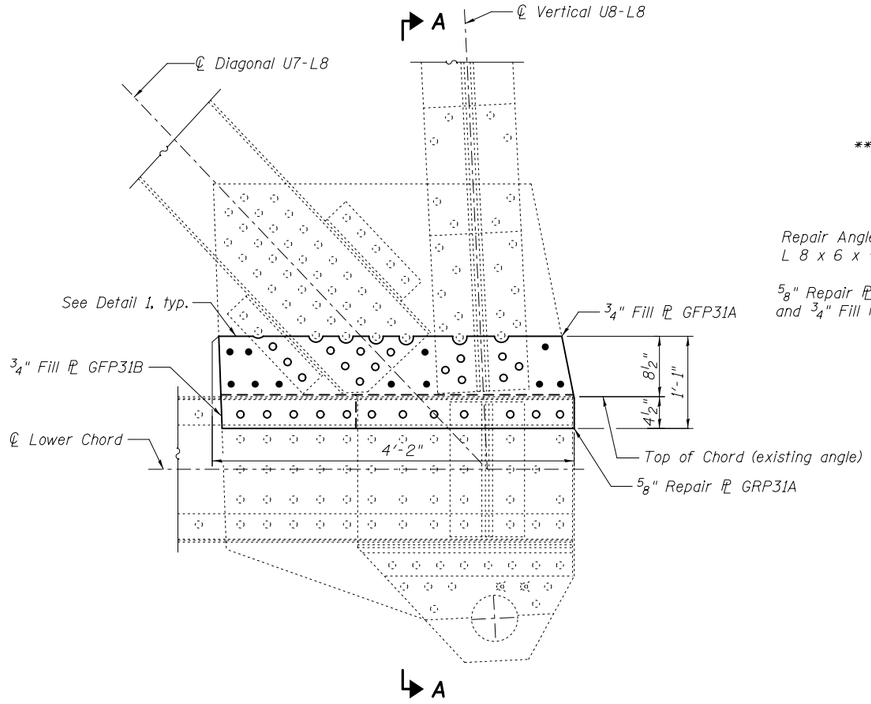
MODJESKI and MASTERS
Experience great bridges.

USER NAME =	DESIGNED - ZWE	REVISED
	CHECKED - YSS	REVISED
PLOT SCALE =	DRAWN - PRC	REVISED
PLOT DATE = 10/05/2015	CHECKED - RLM	REVISED

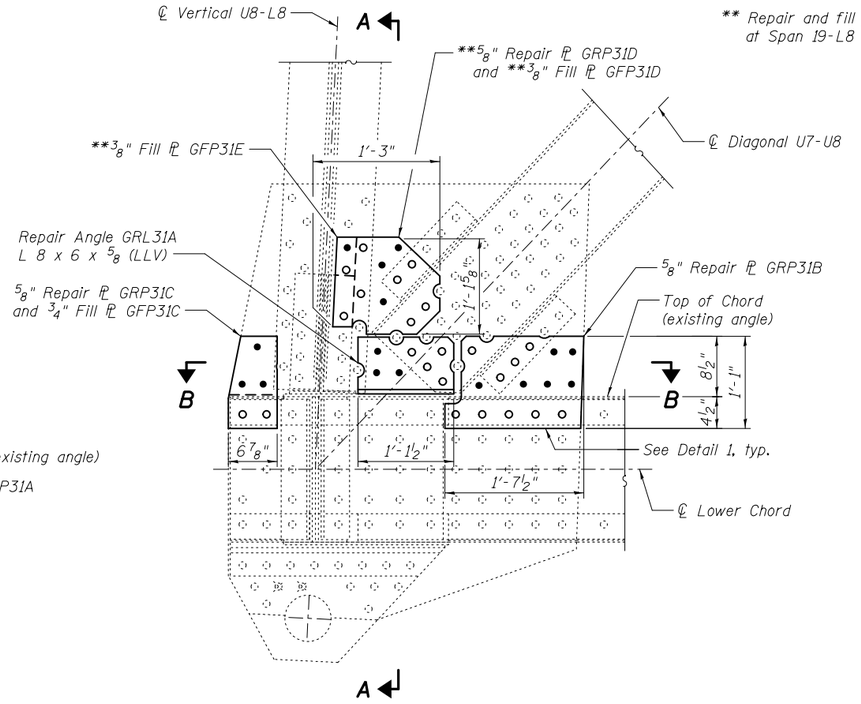
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

GUSSET PLATE REPAIRS – 30
S.N. 090–0030 CEDAR STREET BRIDGE OVER ILLINOIS RIVER
SHEET NO. 53 OF 112 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
669	(103B)I-7	PEORIA/TAZEWELL	180	121
			CONTRACT NO. 68A93	
	ILLINOIS	FED. AID PROJECT		

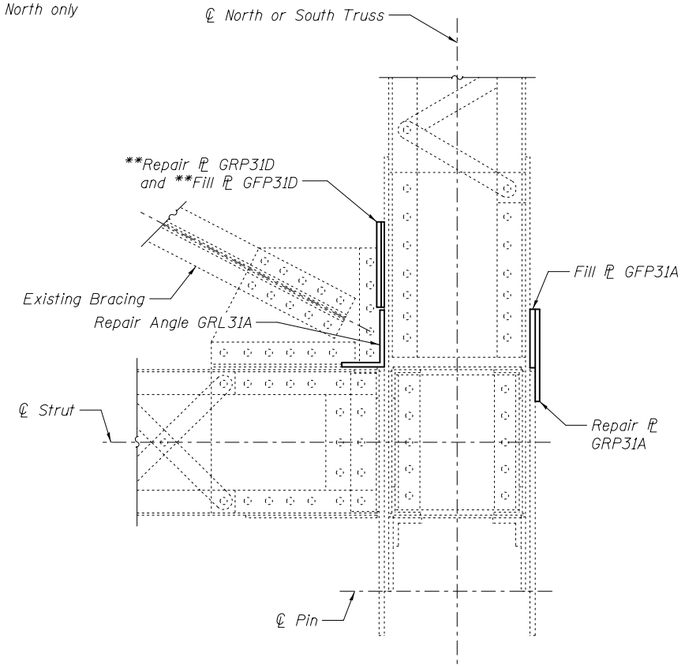


OUTSIDE ELEVATION

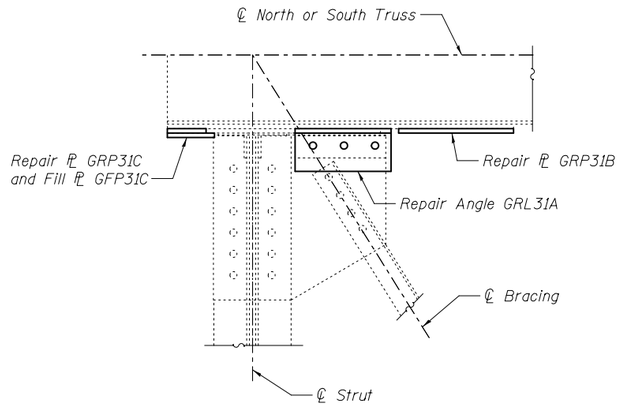


INSIDE ELEVATION

** Repair and fill plates located at Span 19-L8 North only



SECTION A-A



SECTION B-B

GUSSET PLATE L8

Field cut/cope new materials to accommodate existing fasteners not used in repair, as required.

REPAIR LOCATIONS

Span	Joint	Truss	Inner PL	Outer PL
18	L8	South	1	1
19	L8	North	1*	1*
19	L8	South	1	1

* *Remove existing repair angle and plate. Reuse existing holes and modify proposed fastener layout to accommodate additional fasteners in accordance with gusset repair procedures.*

LEGEND

- ◌ Existing fastener to remain
- ● New 7/8" ϕ A325 bolt in new 15/16" ϕ hole (shop or field drilled)
- ○ Replace existing fastener with new 7/8" ϕ A325 bolt in existing hole. Holes in new material shall be field drilled using existing members as a template.

Notes:

For gusset repair general notes and procedures, see Sheet 23 of 112.

The Contractor shall field verify existing conditions, including gusset plates, connection plates, connection angles, miscellaneous steel and layout of the fastener holes prior to ordering new materials.

For Detail 1 (Sealant), see Sheet 23 of 112.

BILL OF MATERIAL

Item	Unit	Total
Structural Steel Repair	Pound	1240

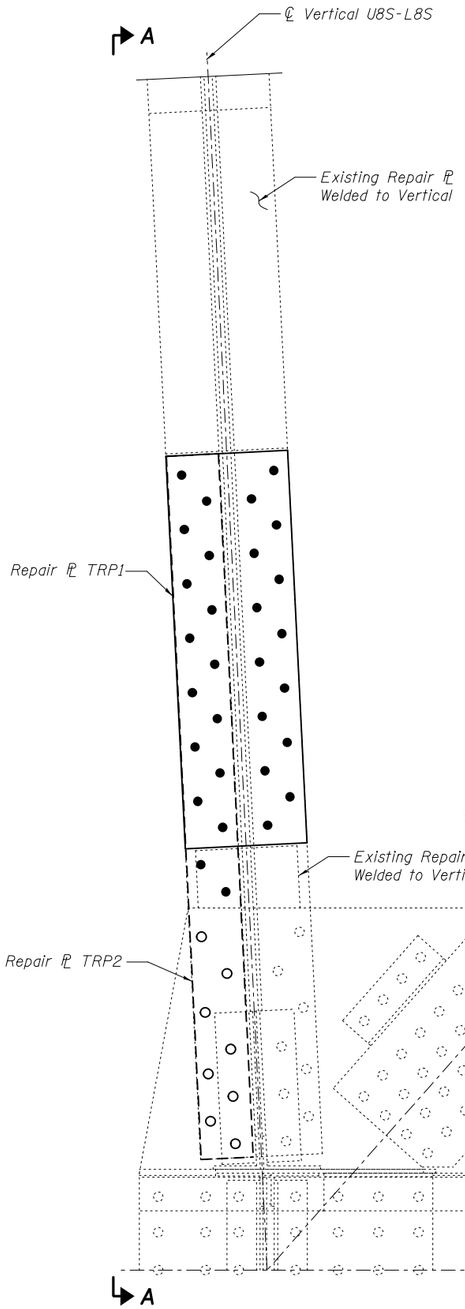
MODJESKI and MASTERS
Experience great bridges.

USER NAME =	DESIGNED - ZWE	REVISED
	CHECKED - YSS	REVISED
PLOT SCALE =	DRAWN - PRC	REVISED
PLOT DATE = 10/05/2015	CHECKED - RLM	REVISED

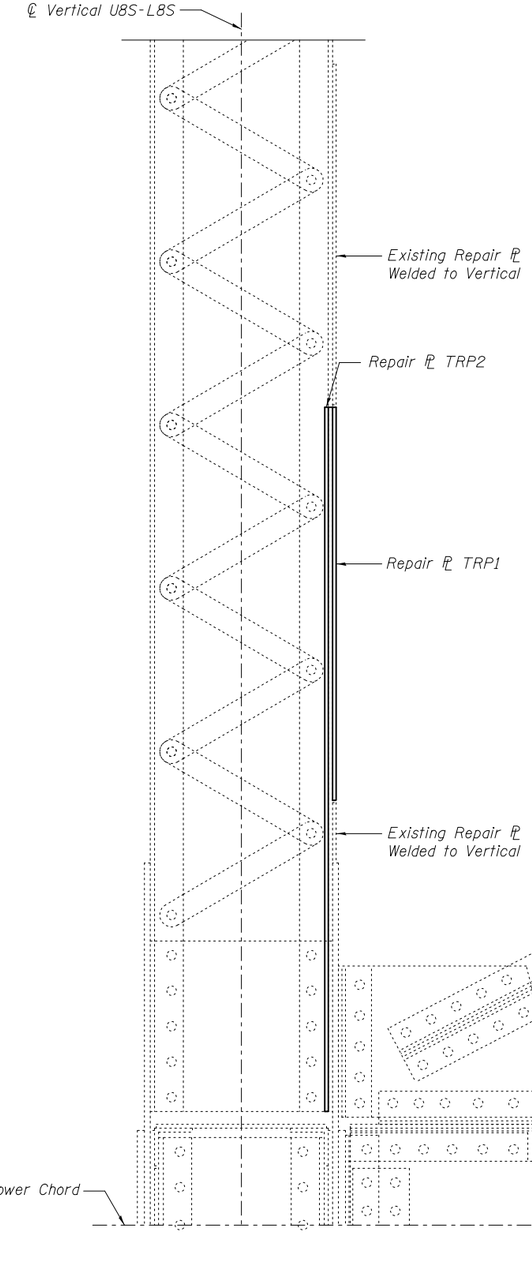
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

GUSSET PLATE REPAIRS – 31
S.N. 090–0030 CEDAR STREET BRIDGE OVER ILLINOIS RIVER
SHEET NO. 54 OF 112 SHEETS

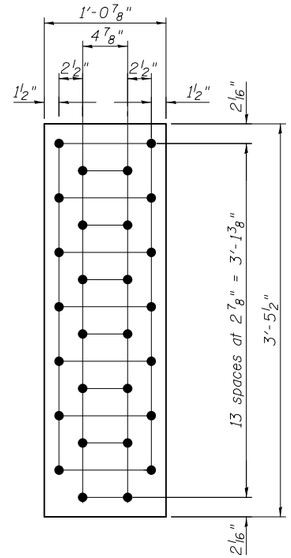
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
669	(103B)I-7	PEORIA/TAZEWELL	180	122
		CONTRACT NO. 68A93		
	ILLINOIS	FED. AID PROJECT		



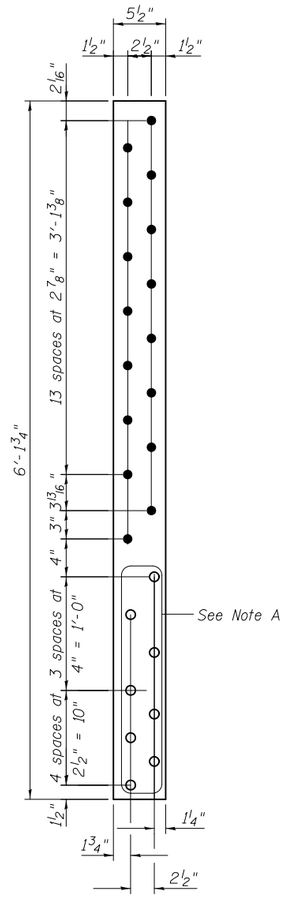
INSIDE ELEVATION
(Looking South)



VIEW A-A



REPAIR ℙ TRP1
℄ 3/8" x 12 7/8" x 3'-5 1/2"
(1-required)



REPAIR ℙ TRP2
℄ 3/8" x 5 1/2" x 6'-1 3/4"
(1-required)

LEGEND

- Existing fastener
- New bolt in new hole
- New bolt in existing hole

Note:
Coordinate truss member repairs with gusset plate repairs shown on Sheet 26 of 112.

SPAN 11
U8S-L8S AT L8S
TRUSS MEMBER REPAIR

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

BILL OF MATERIAL

Item	Unit	Total
Structural Steel Repair	Pound	140

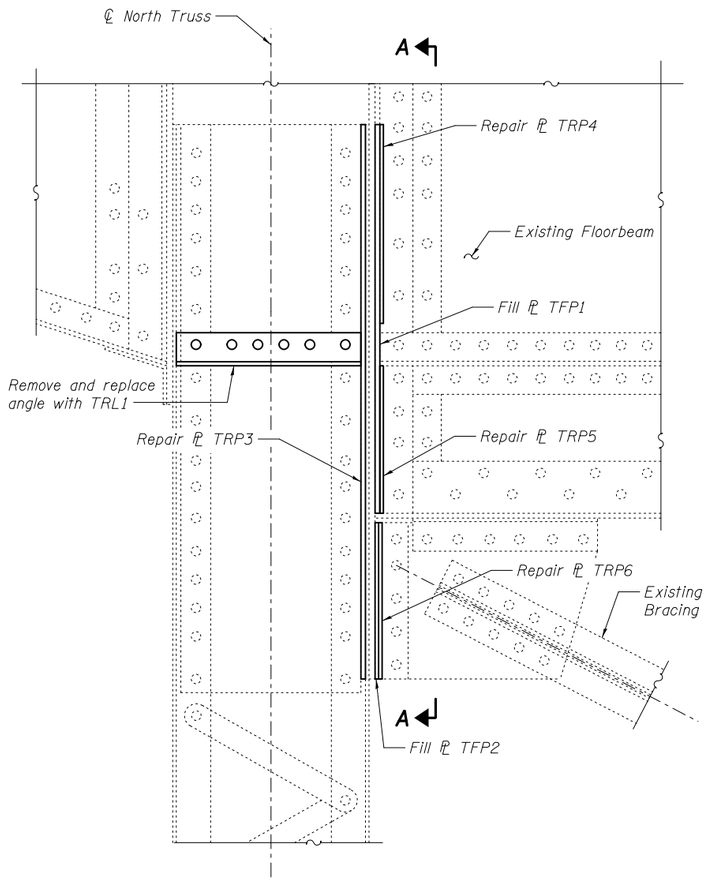
MODJESKI and MASTERS
Experience great bridges.

USER NAME =	DESIGNED - RLM	REVISED
	CHECKED - APL	REVISED
PLOT SCALE =	DRAWN - CMM	REVISED
PLOT DATE = 10/05/2015	CHECKED - RLM	REVISED

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TRUSS MEMBER REPAIRS – 1
S.N. 090–0030 CEDAR STREET BRIDGE OVER ILLINOIS RIVER
SHEET NO. 55 OF 112 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
669	(103B)I-7	PEORIA/TAZEWELL	180	123
		CONTRACT NO. 68A93		
	ILLINOIS FED. AID PROJECT			

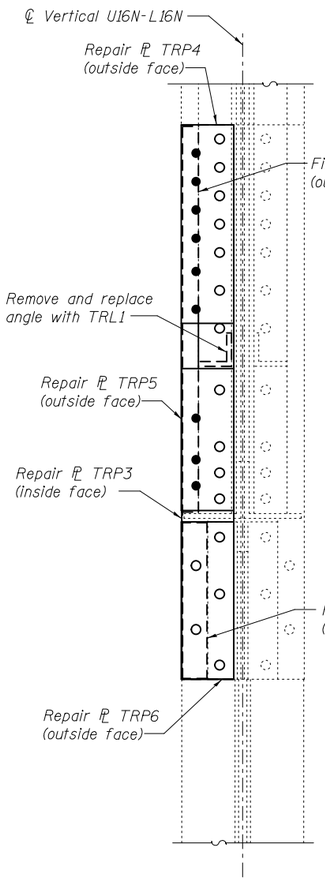


SPAN 13
U16N-L16N AT U16N
TRUSS MEMBER REPAIR

(Shown Looking East)

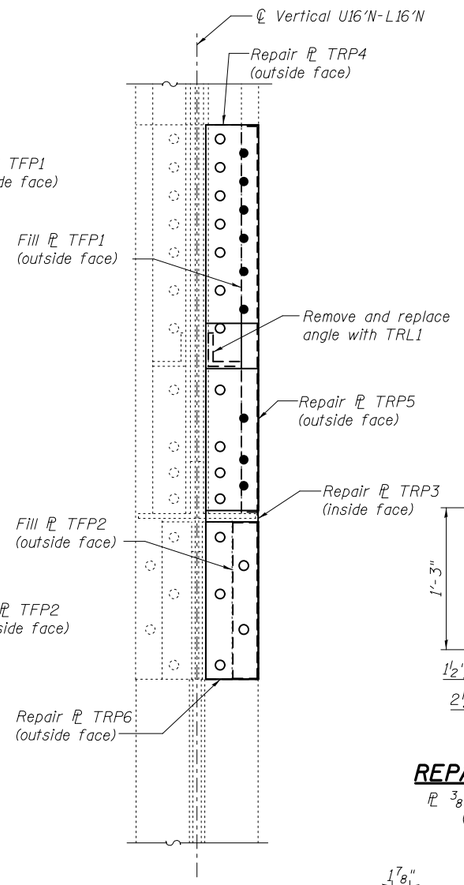
SPAN 15
U16'N-L16'N AT U16'N
TRUSS MEMBER REPAIR

(Similar)



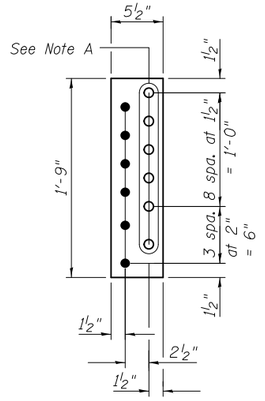
SECTION A-A

(Span 13)



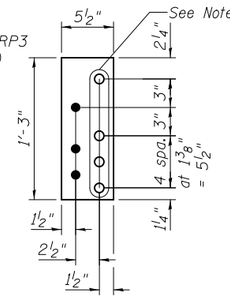
SECTION A-A

(Span 15)



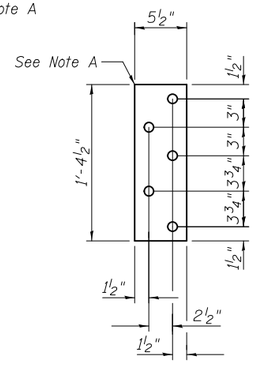
REPAIR ℙ TRP4

ℙ ⅜" x 5½" x 1'-9"
(2-required)



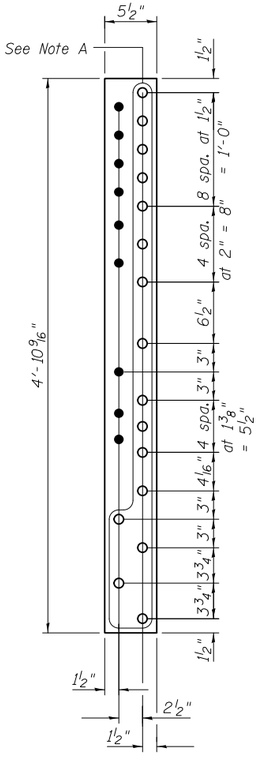
REPAIR ℙ TRP5

ℙ ⅜" x 5½" x 1'-3"
(2-required)



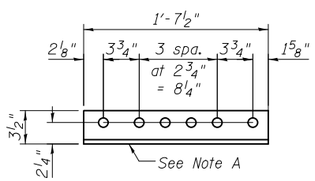
REPAIR ℙ TRP6

ℙ ⅜" x 5½" x 1'-4½"
(2-required)



REPAIR ℙ TRP3

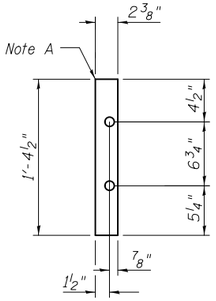
ℙ ⅜" x 5½" x 4'-10⁹⁄₁₆"
(2-required)



REPAIR ANGLE TRL1

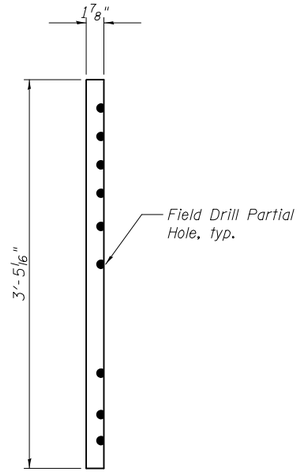
L 5" x 3½"x ½"
(2-required)

Bolt spacing shown for Span 13.
Span 15 opposite hand.



FILL ℙ TFP2

ℙ ⅜" x 2⅜" x 1'-4½"
(2-required)



FILL ℙ TFP1

ℙ ½" x 1⅞" x 3'-5⁵⁄₁₆"
(2-required)

LEGEND

- Existing fastener
- New bolt in new hole
- New bolt in existing hole

BILL OF MATERIAL

Item	Unit	Total
Structural Steel Repair	Pound	250

Notes:

Flanges of vertical truss members to be repaired are warped. Angle legs shall be mechanically straightened prior to attaching repair and fill plates. Heat straightening is not allowed. Contractor shall submit a straightening procedure to the Engineer for review and approval prior to performing work. The cost to straighten the angle legs shall be included with Structural Steel Repair.

Work shown on this sheet shall be performed during Bridge Closure Stage.

Note A:

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

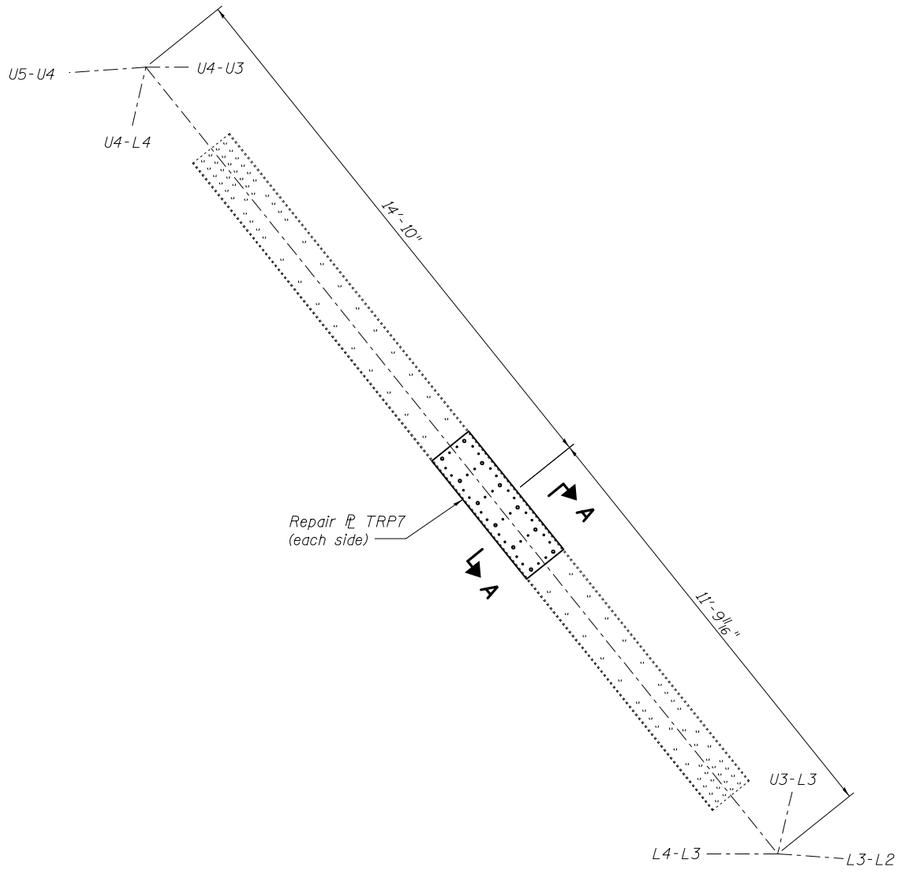
MODJESKI and MASTERS
Experience great bridges.

USER NAME =	DESIGNED - RLM	REVISED
	CHECKED - APL	REVISED
PLOT SCALE =	DRAWN - PRC	REVISED
PLOT DATE = 10/05/2015	CHECKED - RLM	REVISED

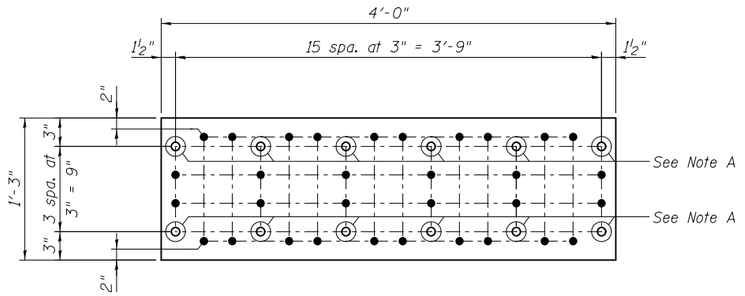
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TRUSS MEMBER REPAIRS – 2
S.N. 090–0030 CEDAR STREET BRIDGE OVER ILLINOIS RIVER
SHEET NO. 56 OF 112 SHEETS

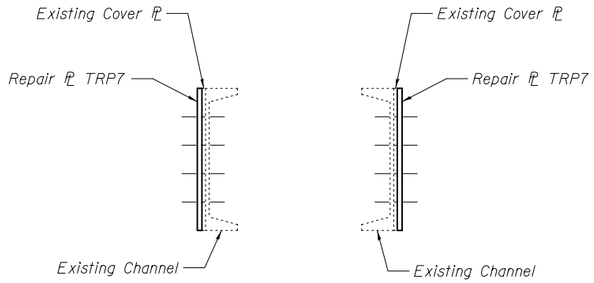
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
669	(103B)I-7	PEORIA/TAZEWELL	180	124
		CONTRACT NO. 68A93		
	ILLINOIS	FED. AID PROJECT		



SPAN 14 AT U4S-L3S
TRUSS MEMBER REPAIR
(Looking North)



REPAIR ℄ TRP7
℄ ½" x 1'-3" x 4'-0" (NTR)
(2-required)



SECTION A-A

LEGEND

- Existing fastener
- New bolt in new hole
- New bolt in existing hole

BILL OF MATERIAL

Item	Unit	Total
Structural Steel Repair	Pound	280

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

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

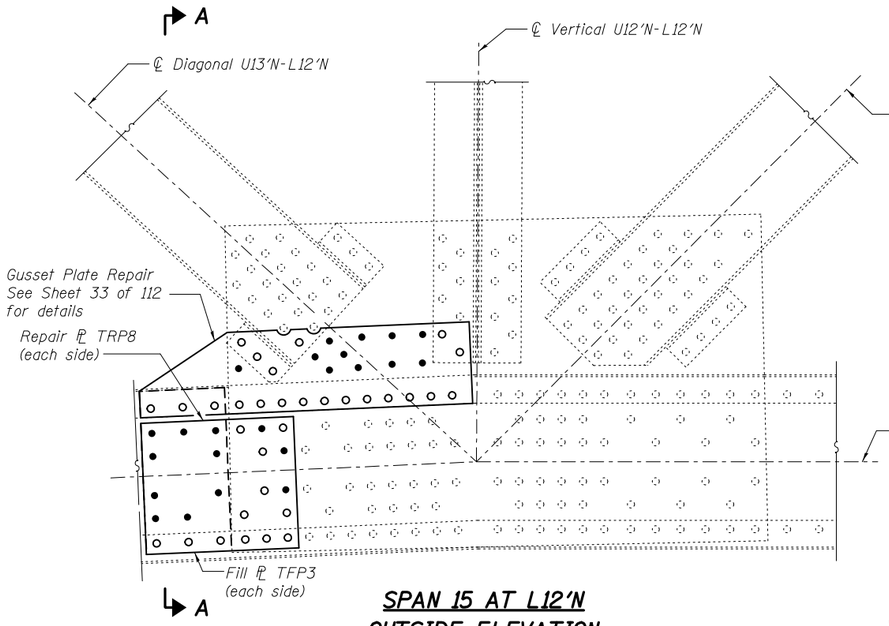
MODJESKI and MASTERS
Experience great bridges.

USER NAME =	DESIGNED - RLM	REVISED
	CHECKED - APL	REVISED
PLOT SCALE =	DRAWN - AEC	REVISED
PLOT DATE = 10/05/2015	CHECKED - RLM	REVISED

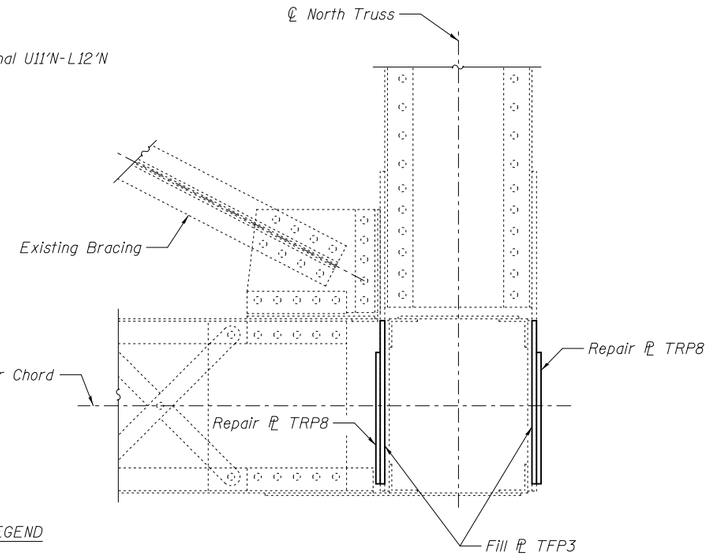
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TRUSS MEMBER REPAIRS – 3
S.N. 090–0030 CEDAR STREET BRIDGE OVER ILLINOIS RIVER
SHEET NO. 57 OF 112 SHEETS

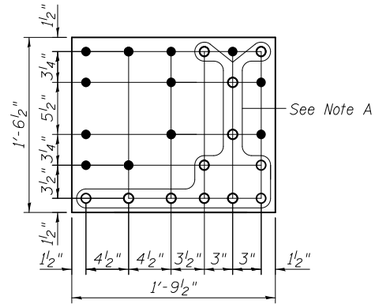
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
669	(103B)I-7	PEORIA/TAZEWELL	180	125
		CONTRACT NO. 68A93		
	ILLINOIS FED. AID PROJECT			



SPAN 15 AT L12'N
OUTSIDE ELEVATION
TRUSS MEMBER REPAIR
(Looking South)



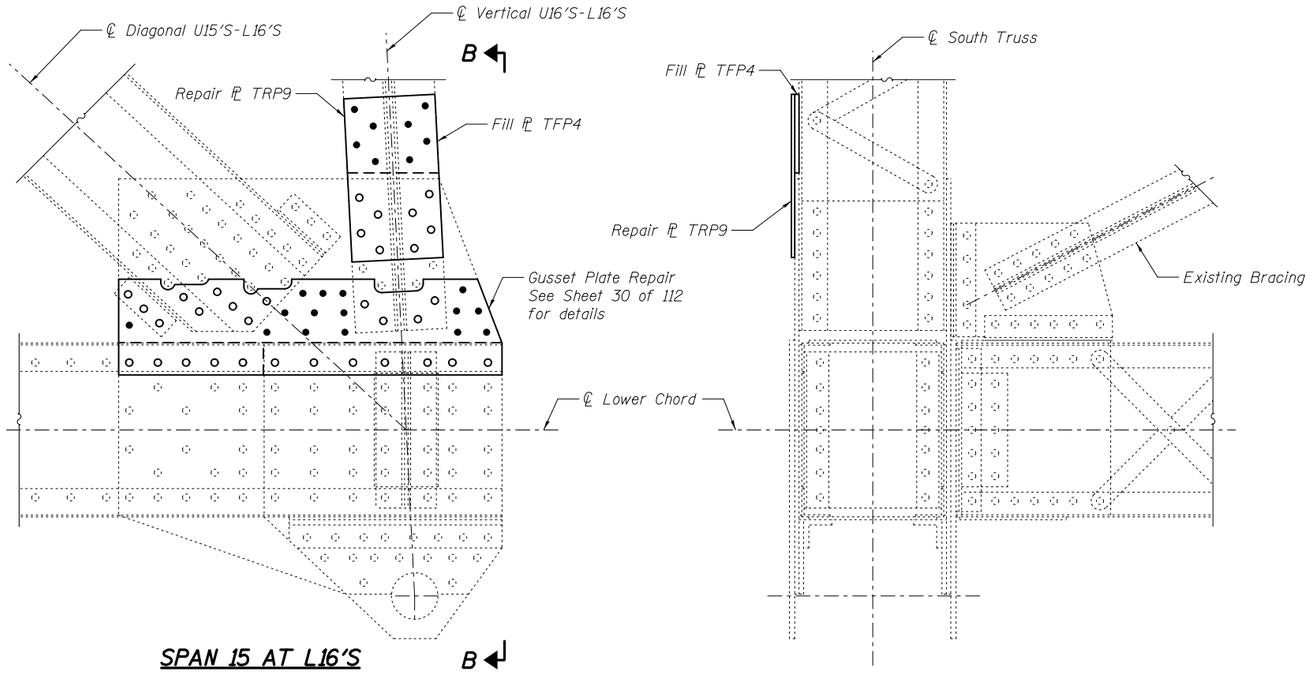
SECTION A-A



REPAIR ℄ TRP8
℄ $\frac{5}{8}$" x 1'-6½" x 1'-9½" (NTR)
(2-required)

LEGEND

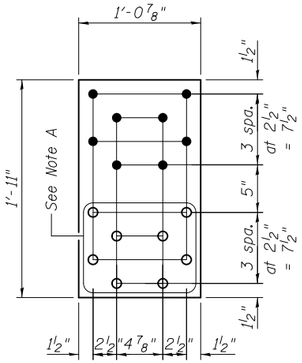
- Existing fastener
- New bolt in new hole
- New bolt in existing hole



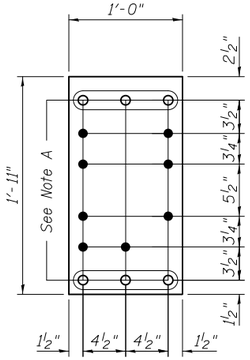
SPAN 15 AT L16'S
OUTSIDE ELEVATION
TRUSS MEMBER REPAIR
(Looking North)

SECTION B-B

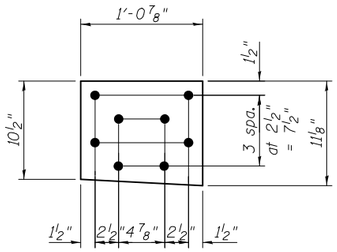
Note A:
Field drill holes using existing holes as template. Remainder of holes may be shop or field drilled.



REPAIR ℄ TRP9
℄ ½" x 12⅞" x 1'-11"
(1-required)



FILL ℄ TFP3
℄ $\frac{5}{8}$" x 1'-0" x 1'-11"
(2-required)



FILL ℄ TFP4
℄ $\frac{5}{8}$" x 11⅛" x 1'-0⅞"
(1-required)

BILL OF MATERIAL

Item	Unit	Total
Structural Steel Repair	Pound	370

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

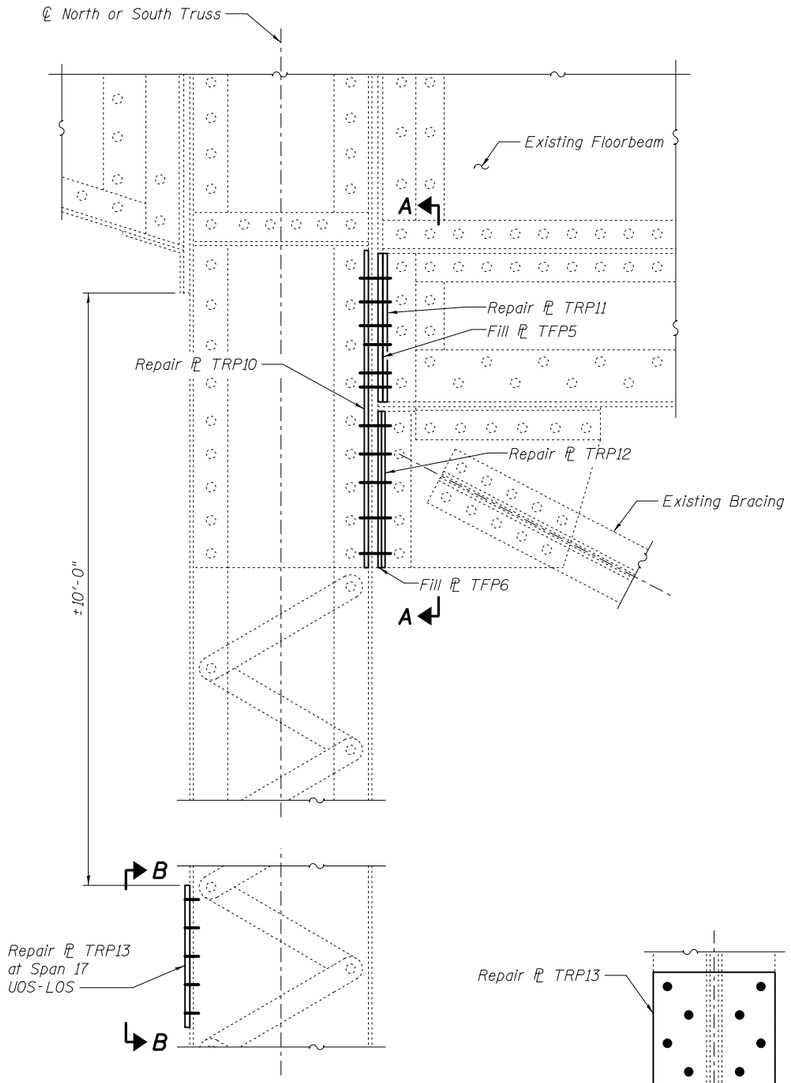
MODJESKI and MASTERS
Experience great bridges.

USER NAME =	DESIGNED - RLM	REVISED
	CHECKED - APL	REVISED
PLOT SCALE =	DRAWN - PRC	REVISED
PLOT DATE = 10/05/2015	CHECKED - RLM	REVISED

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

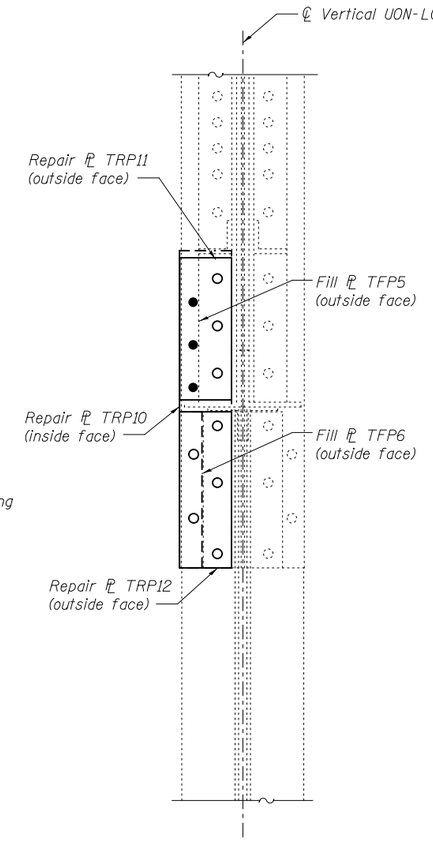
TRUSS MEMBER REPAIRS - 4
S.N. 090-0030 CEDAR STREET BRIDGE OVER ILLINOIS RIVER
SHEET NO. 58 OF 112 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
669	(103B)I-7	PEORIA/TAZEWELL	180	126
		CONTRACT NO. 68A93		
	ILLINOIS FED. AID PROJECT			

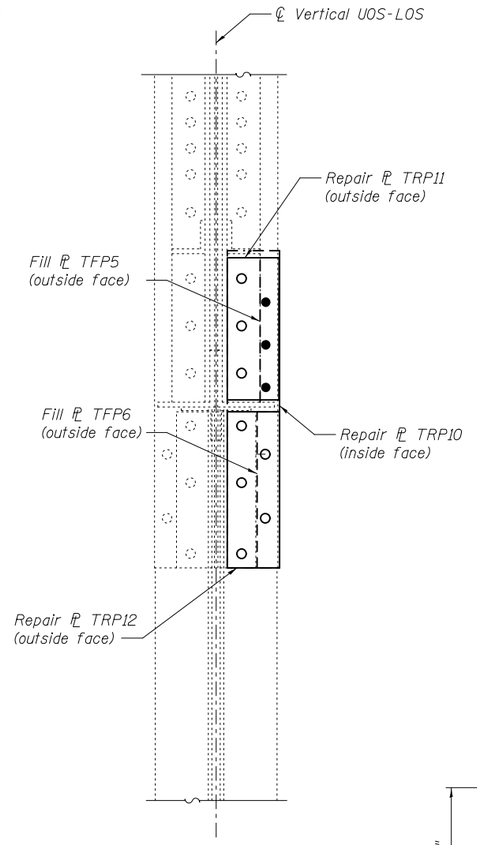


SPAN 16
UON-LON AT UON
TRUSS MEMBER REPAIR
(Shown Looking East)

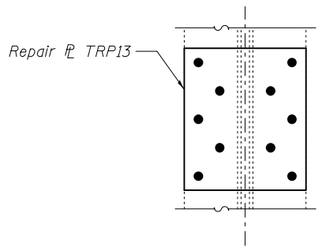
SPAN 17
UOS-LOS AT UOS
TRUSS MEMBER REPAIR
(Similar)



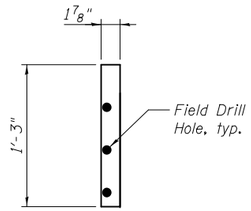
SECTION A-A
(Span 16)



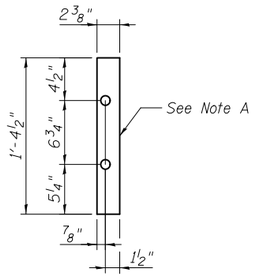
SECTION A-A
(Span 17)



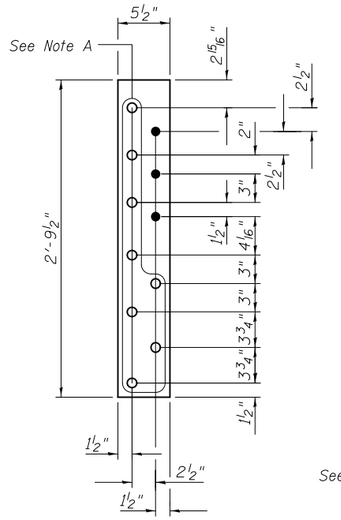
VIEW B-B
(Span 17)



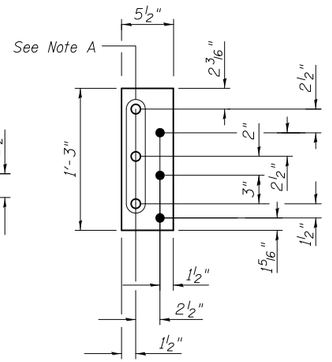
FILL ℙ TFP5
ℙ 1/2" x 1 7/8" x 1'-3"
(2-required)



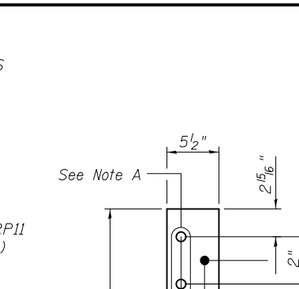
FILL ℙ TFP6
ℙ 3/8" x 2 3/8" x 1'-4 1/2"
(2-required)



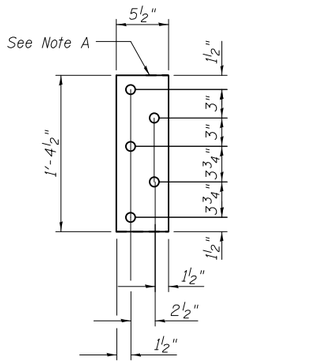
REPAIR ℙ TRP10
ℙ 3/8" x 5 1/2" x 2'-9 1/2"
(2-required)



REPAIR ℙ TRP11
ℙ 3/8" x 5 1/2" x 1'-3"
(2-required)



REPAIR ℙ TRP13
ℙ 1/2" x 1'-0 7/8" x 1'-3"
(1-required)



REPAIR ℙ TRP12
ℙ 3/8" x 5 1/2" x 1'-4 1/2"
(2-required)

BILL OF MATERIAL

Item	Unit	Total
Structural Steel Repair	Pound	150

LEGEND

- ◌ Existing fastener
- ● New bolt in new hole
- ○ New bolt in existing hole

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

Note:
Flanges of vertical truss members to be repaired are warped. Angle legs shall be mechanically straightened prior to attaching repair and fill plates. Heat straightening is not allowed. Contractor shall submit a straightening procedure to the Engineer for review and approval prior to performing work.
The cost to straighten the angle legs shall be included with Structural Steel Repair.

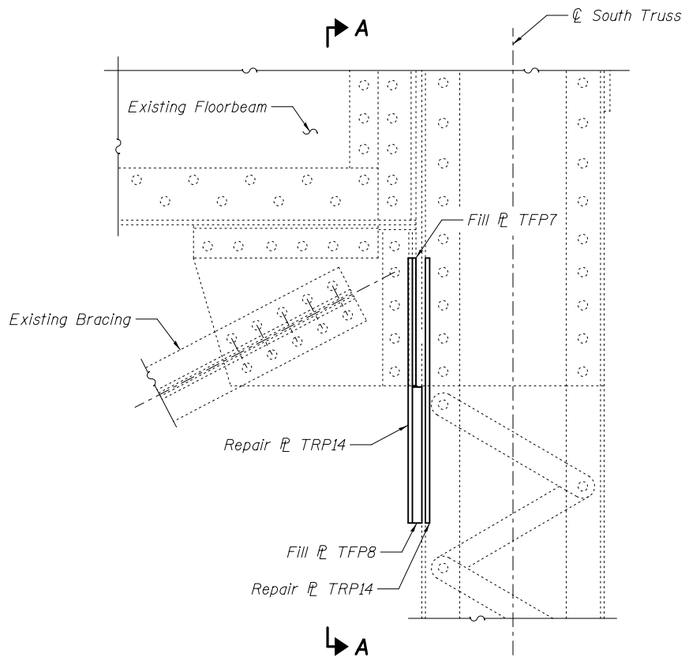
MODJESKI and MASTERS
Experience great bridges.

USER NAME =	DESIGNED - RLM	REVISED
	CHECKED - APL	REVISED
PLOT SCALE =	DRAWN - PRC	REVISED
PLOT DATE = 10/05/2015	CHECKED - RLM	REVISED

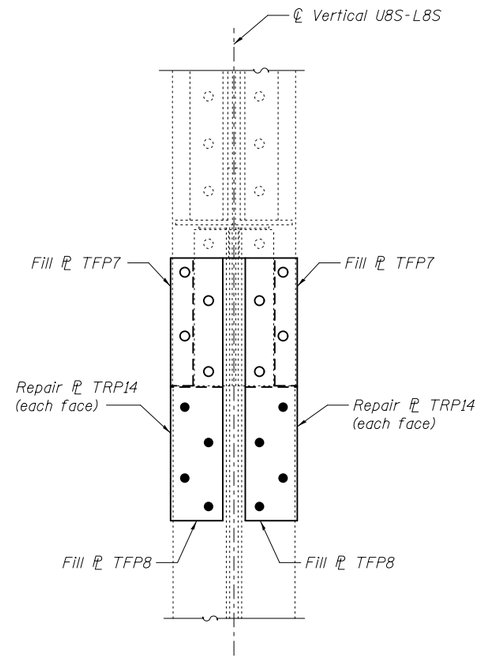
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TRUSS MEMBER REPAIRS – 5
S.N. 090–0030 CEDAR STREET BRIDGE OVER ILLINOIS RIVER
SHEET NO. 59 OF 112 SHEETS

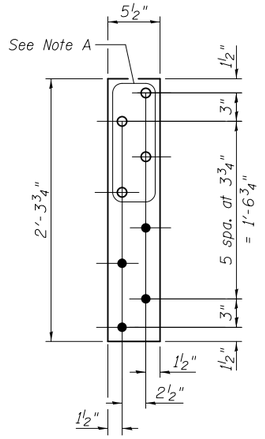
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
669	(103B)I-7	PEORIA/TAZEWELL	180	127
		CONTRACT NO. 68A93		
ILLINOIS	FED. AID PROJECT			



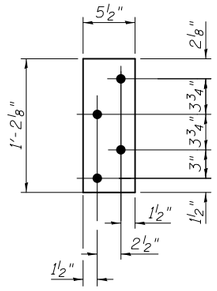
SPAN 17
U8S-L8S AT U8S
TRUSS MEMBER REPAIR
(Looking East)



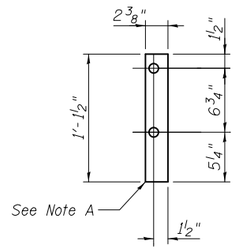
SECTION A-A



REPAIR ℙ TRP14
ℙ ⅜" x 5½" x 2'-3¾"
(4-required)



FILL ℙ TFP8
ℙ 1" x 5½" x 1'-2⅛"
(2-required)



FILL ℙ TFP7
ℙ ⅜" x 2⅜" x 1'-1½"
(2-required)

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

LEGEND

- Existing fastener
- New bolt in new hole
- New bolt in existing hole

BILL OF MATERIAL

Item	Unit	Total
Structural Steel Repair	Pound	140

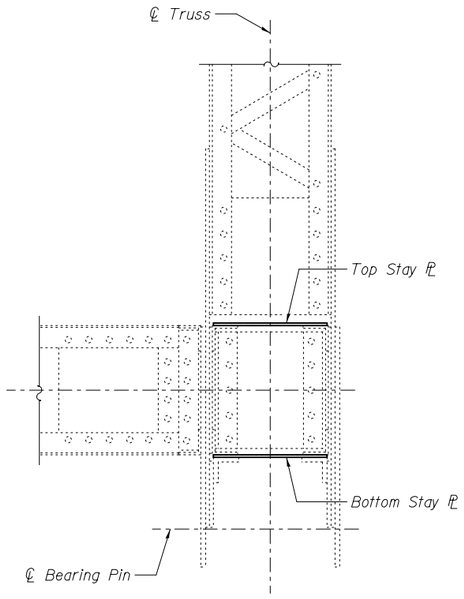
MODJESKI and MASTERS
Experience great bridges.

USER NAME =	DESIGNED - RLM	REVISED
	CHECKED - APL	REVISED
PLOT SCALE =	DRAWN - PRC	REVISED
PLOT DATE = 10/05/2015	CHECKED - RLM	REVISED

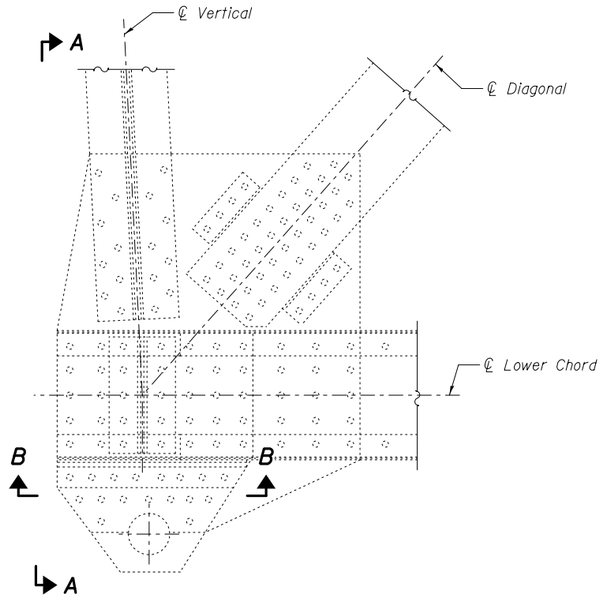
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TRUSS MEMBER REPAIRS – 6
S.N. 090–0030 CEDAR STREET BRIDGE OVER ILLINOIS RIVER
SHEET NO. 60 OF 112 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
669	(103B)I-7	PEORIA/TAZEWELL	180	128
			CONTRACT NO. 68A93	
	ILLINOIS	FED. AID PROJECT		



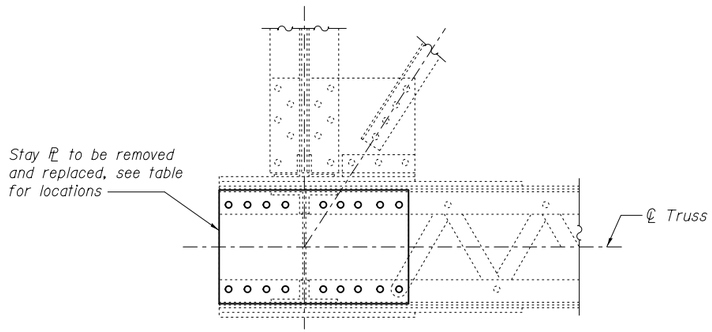
VIEW A-A



PARTIAL ELEVATION OF LOWER CHORD AT L0 AND L8

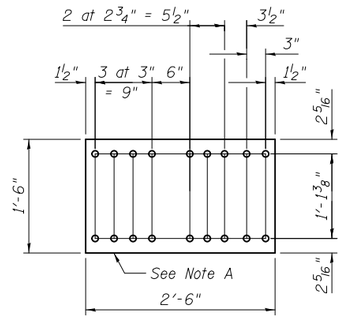
STAY PLATE REMOVAL/REPLACEMENT

Location			Description	Piece Mark
Span	Member	Panel Point		
10	L0S-L1S	L0S	Top Stay Plate	TRP15
10	L0S-L1S	L0S	Bottom Stay Plate	TRP15
10	L7S-L8S	L8S	Bottom Stay Plate	TRP15
11	L0N-L1N	L0N	Bottom Stay Plate	TRP15
11	L0S-L1S	L0S	Bottom Stay Plate	TRP15
11	L7N-L8N	L8N	Top Stay Plate	TRP15
11	L7N-L8N	L8N	Bottom Stay Plate	TRP15
12	L0N-L1N	L0N	Top Stay Plate	TRP15
12	L0N-L1N	L0N	Bottom Stay Plate	TRP15
12	L0S-L1S	L0S	Bottom Stay Plate	TRP15
12	L0S-L1S	L0S	Top Stay Plate	TRP15
12	L7N-L8N	L8N	Bottom Stay Plate	TRP15
18	L0S-L1S	L0S	Bottom Stay Plate	TRP16
19	L0S-L1S	L0S	Bottom Stay Plate	TRP16



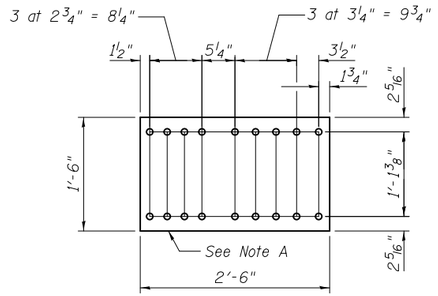
SECTION B-B

(Bottom Stay PL shown, Top Stay PL similar)



STAY PLATE - TRP15

PL 3/8" x 18" x 2'-6"
(12-required)



STAY PLATE - TRP16

PL 3/8" x 18" x 2'-6"
(2-required)

LEGEND

- Existing fastener
- New bolt in new hole
- New bolt in existing hole

BILL OF MATERIAL

Item	Unit	Total
Structural Steel Repair	Pound	1,030

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

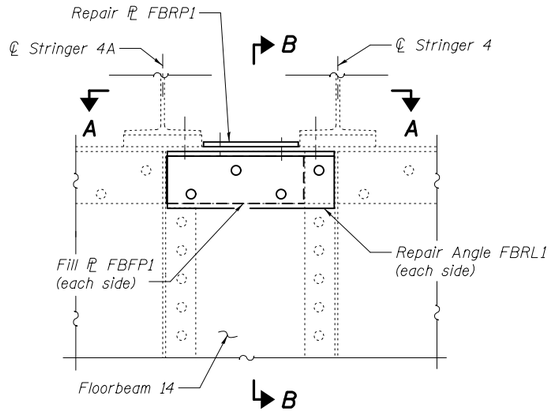
MODJESKI and MASTERS
Experience great bridges.

USER NAME =	DESIGNED - APL	REVISED
	CHECKED - RLM	REVISED
PLOT SCALE =	DRAWN - PRC	REVISED
PLOT DATE = 10/05/2015	CHECKED - APL	REVISED

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

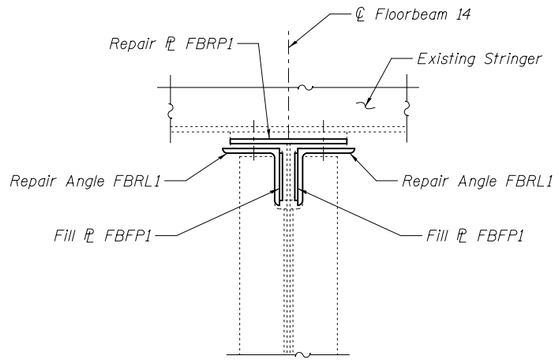
TRUSS MEMBER REPAIRS – 7
S.N. 090–0030 CEDAR STREET BRIDGE OVER ILLINOIS RIVER
SHEET NO. 61 OF 112 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
669	(103B)I-7	PEORIA/TAZEWELL	180	129
			CONTRACT NO. 68A93	
	ILLINOIS FED. AID PROJECT			

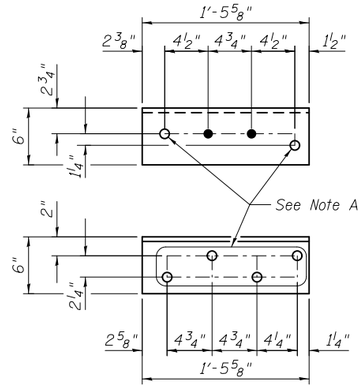


SPAN 13, FLOORBEAM 14

(Looking West)



SECTION B-B

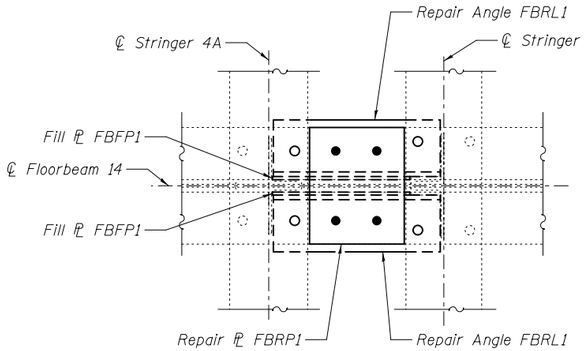


REPAIR ANGLE FBRL1

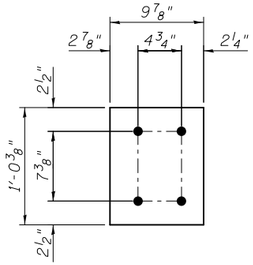
L 6 x 6 x 1/2" x 1'-5 5/8"

(2-required)

(East side angle shown,
West side angle opposite hand)



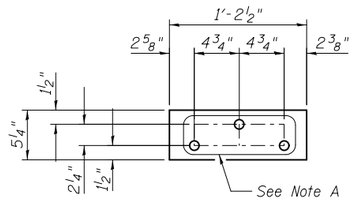
SECTION A-A



REPAIR ℄ FBRP1

℄ 3/8" x 9 7/8" x 1'-0 3/8"

(1-required)



FILL ℄ FBFP1

℄ 5/16" x 5 1/4" x 1'-2 1/2"

(2-required)

LEGEND

- Existing fastener
- New bolt in new hole
- New bolt in existing hole

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

BILL OF MATERIAL

Item	Unit	Total
Structural Steel Repair	Pound	100

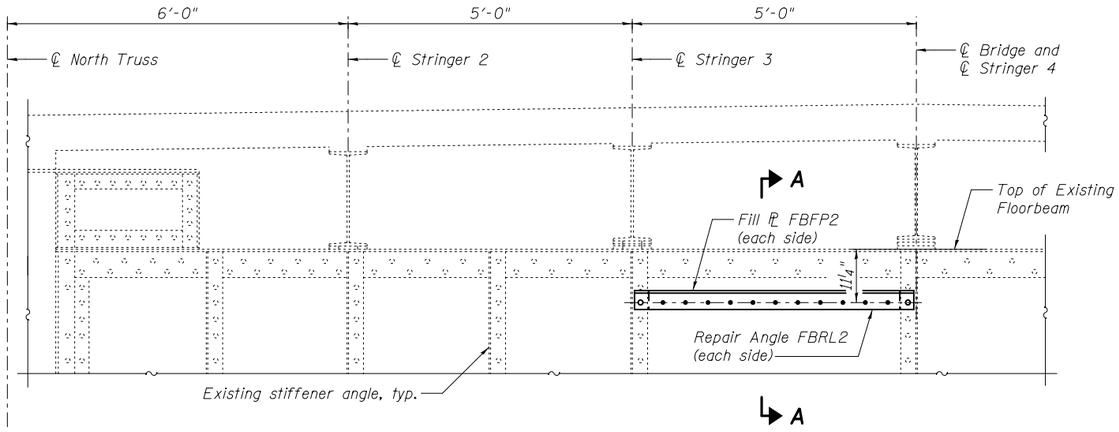
MODJESKI and MASTERS
Experience great bridges.

USER NAME =	DESIGNED - RLM	REVISED
	CHECKED - APL	REVISED
PLOT SCALE =	DRAWN - CMM	REVISED
PLOT DATE = 10/05/2015	CHECKED - RLM	REVISED

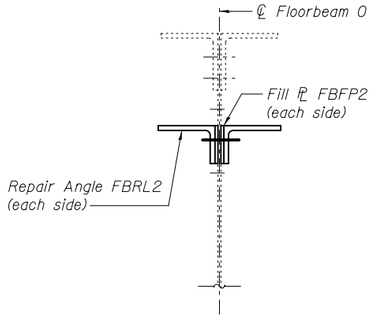
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

FLOORBEAM – TOP FLANGE REPAIRS – 1
S.N. 090–0030 CEDAR STREET BRIDGE OVER ILLINOIS RIVER
SHEET NO. 62 OF 112 SHEETS

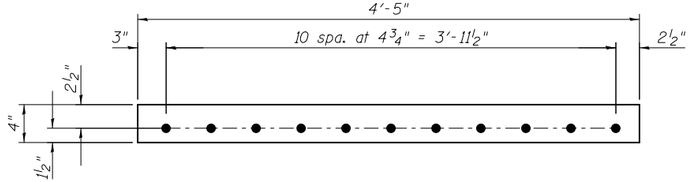
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
669	(103B)I-7	PEORIA/TAZEWELL	180	130
			CONTRACT NO. 68A93	
		ILLINOIS	FED. AID PROJECT	



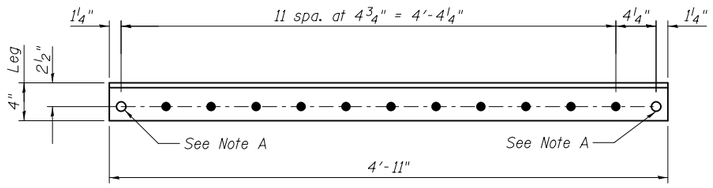
PART ELEVATION
SPAN 17 - FLOORBEAM 0
(Looking East)



SECTION A-A



FILL ℙ FBFP2
ℙ 5/16" x 4" x 4'-5"
(2-required)



REPAIR ANGLE FBRL2
L 6 x 4 x 1/2 x 4'-11"
(2-required)
West side angle shown. East side angle opposite hand.

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

LEGEND

- Existing fastener
- New bolt in new hole
- New bolt in existing hole

BILL OF MATERIAL

Item	Unit	Total
Structural Steel Repair	Pound	210

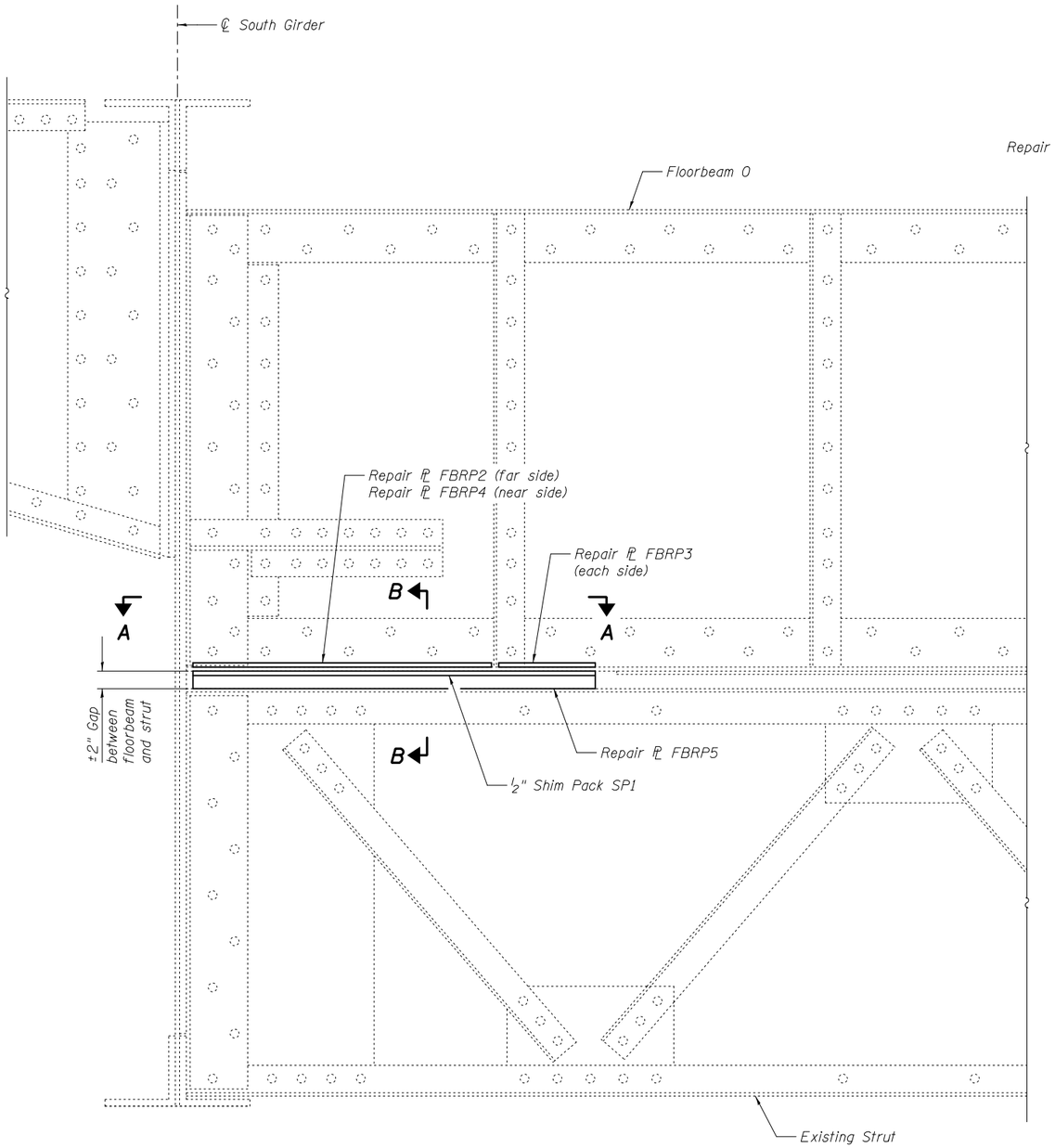
MODJESKI and MASTERS
Experience great bridges.

USER NAME =	DESIGNED - RLM	REVISED
	CHECKED - APL	REVISED
PLOT SCALE =	DRAWN - PRC	REVISED
PLOT DATE = 10/05/2015	CHECKED - RLM	REVISED

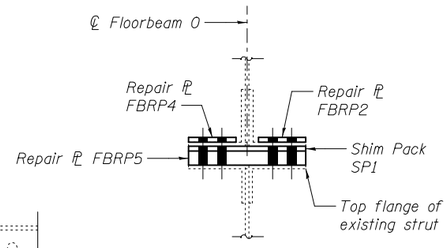
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

FLOORBEAM – TOP FLANGE REPAIRS – 2
S.N. 090–0030 CEDAR STREET BRIDGE OVER ILLINOIS RIVER
SHEET NO. 63 OF 112 SHEETS

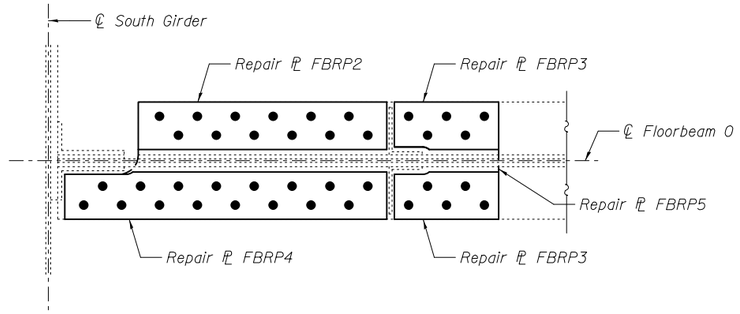
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
669	(103B)I-7	PEORIA/TAZEWELL	180	131
		CONTRACT NO. 68A93		
	ILLINOIS	FED. AID PROJECT		



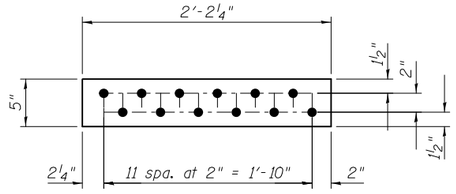
SOUTH END PART ELEVATION
SPAN 23 AT FLOORBEAM 0
(Looking West)



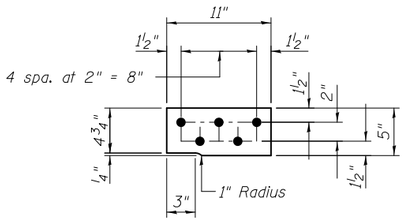
SECTION B-B



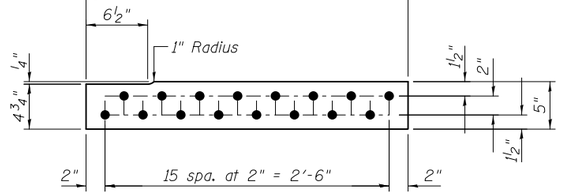
SECTION A-A



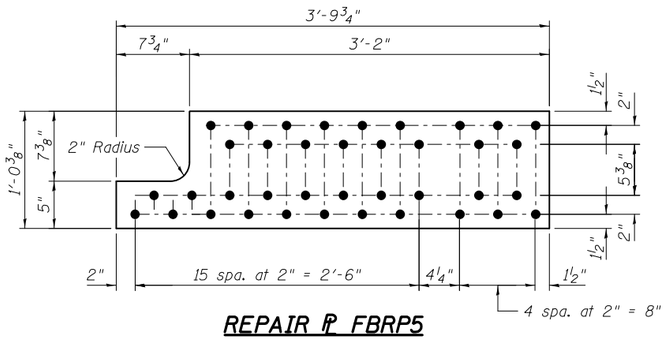
REPAIR ℄ FBRP2
℄ ⅜" x 5" x 2'-2¼" (NTR)
(1-required)



REPAIR ℄ FBRP3
℄ ⅜" x 5" x 0'-11" (NTR)
(2-required)



REPAIR ℄ FBRP4
℄ ⅜" x 5" x 2'-10" (NTR)
(1-required)



REPAIR ℄ FBRP5
℄ 1¾" x 1'-0⅜" x 3'-9¾" (NTR)
(1-required)

SHIM PACK SP1
℄ *½" x 1'-0⅜" x 3'-9¾"
(1-required)

* Shim Pack = 1-¼" ℄, 1-⅛" ℄ and 2-1/16" ℄'s

LEGEND

- Existing fastener
- New bolt in new hole

BILL OF MATERIAL

Item	Unit	Total
Structural Steel Repair	Pound	410

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

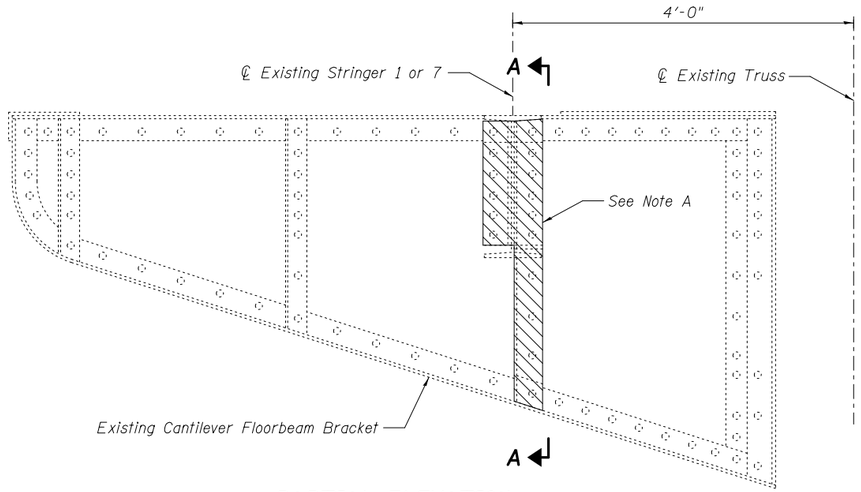
MODJESKI and MASTERS
Experience great bridges.

USER NAME =	DESIGNED - RLM	REVISED
	CHECKED - APL	REVISED
PLOT SCALE =	DRAWN - PRC	REVISED
PLOT DATE = 10/05/2015	CHECKED - RLM	REVISED

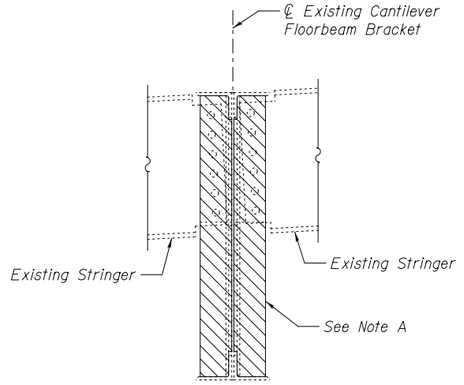
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

FLOORBEAM – BOTTOM FLANGE REPAIR
S.N. 090-0030 CEDAR STREET BRIDGE OVER ILLINOIS RIVER
SHEET NO. 64 OF 112 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
669	(103B)I-7	PEORIA/TAZEWELL	180	132
		CONTRACT NO. 68A93		
	ILLINOIS FED. AID PROJECT			

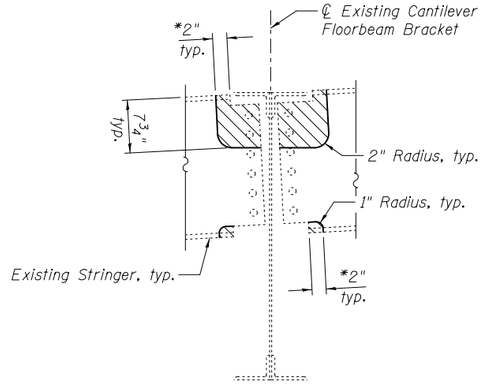


PARTIAL ELEVATION
CANTILEVER FLOORBEAM BRACKET REPAIR
(Removal Detail)

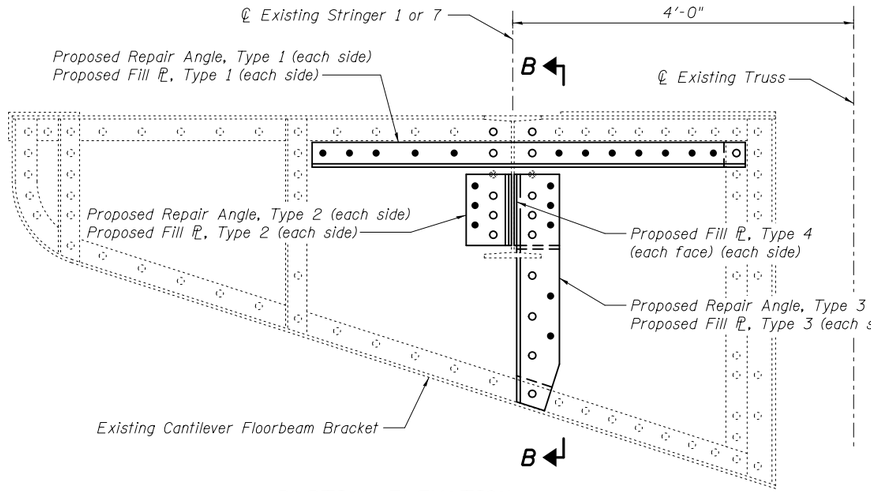


SECTION A-A

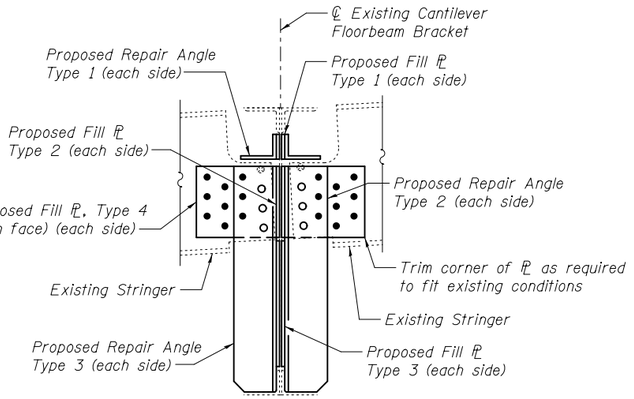
Note A:
Remove existing stiffener angles, connection angles, and fill plates, each side of cantilever floorbeam bracket. Temporarily support existing stringers.



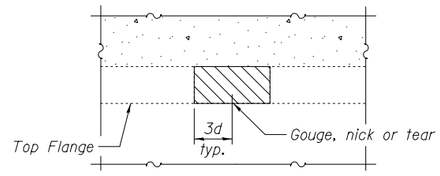
STRINGER COPING DETAIL
* Extend existing cope to accommodate new repair angle installation. Copes shall be ground smooth to ANSI 250, cleaned and painted. Cost included with Structural Steel Repair.



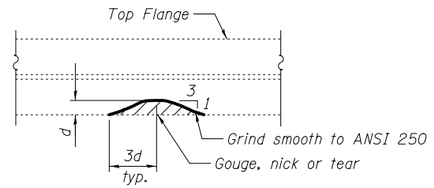
PARTIAL ELEVATION
CANTILEVER FLOORBEAM BRACKET REPAIR
(Installation Detail)



SECTION B-B



ELEVATION



PLAN

GRINDING DETAIL
After grinding, the damaged area shall be inspected for cracks using dye penetrant or magnetic particle testing and then cleaned and painted. Cost for grinding, inspecting, and painting included with Structural Steel Repair.

CANTILEVER FLOORBEAM BRACKET REPAIR LOCATIONS

Span	Member	Location	Repair Angle Type 1	Repair Angle Type 2	Repair Angle Type 3	Fill PL Type 1	Fill PL Type 2	Fill PL Type 3	Fill PL Type 4	d
10	FB5	South Bracket	CFBRL2	CFBRL4	CFBRL6	CFBFP2	CFBFP4	CFBFP8	CFBFP6	4"
13	FB11	North Bracket	CFBRL1	CFBRL3	CFBRL5	CFBFP1	CFBFP3	CFBFP7	CFBFP5	2½"
14	FB1'	South Bracket	CFBRL1	CFBRL3	CFBRL5	CFBFP1	CFBFP3	CFBFP7	CFBFP5	½"
15	FB12'	South Bracket	CFBRL1	CFBRL3	CFBRL5	CFBFP1	CFBFP3	CFBFP7	CFBFP5	2"
16	FB7	South Bracket	CFBRL2	CFBRL4	CFBRL6	CFBFP2	CFBFP4	CFBFP8	CFBFP6	¾"

LEGEND

- Open hole
- Existing fastener
- New bolt in new hole
- New bolt in existing hole

Notes:
Hatched areas indicate removal of existing structural steel. Cost included with Structural Steel Repair.
For repair angle and fill plate details, see Sheet 66 of 112.

BILL OF MATERIAL

Item	Unit	Total
Structural Steel Repair	Pound	2,430

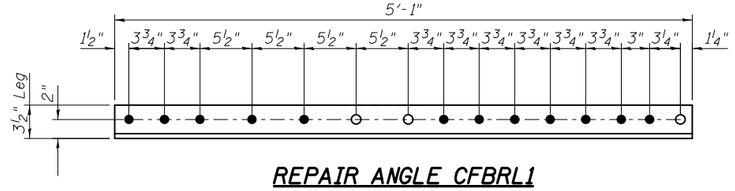
MODJESKI and MASTERS
Experience great bridges.

USER NAME =	DESIGNED - RLM	REVISED
	CHECKED - APL	REVISED
PLOT SCALE =	DRAWN - PRC	REVISED
PLOT DATE = 10/05/2015	CHECKED - RLM	REVISED

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

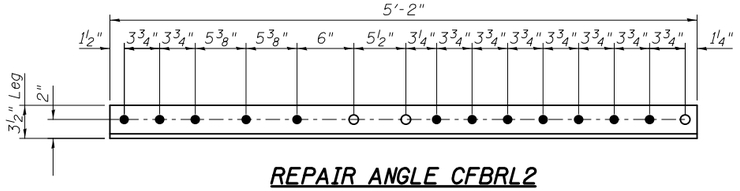
CANTILEVER FLOORBEAM BRACKET – TOP FLANGE REPAIRS – 1
S.N. 090–0030 CEDAR STREET BRIDGE OVER ILLINOIS RIVER
SHEET NO. 65 OF 112 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
669	(103B)I-7	PEORIA/TAZEWELL	180	133
		CONTRACT NO. 68A93		
ILLINOIS FED. AID PROJECT				



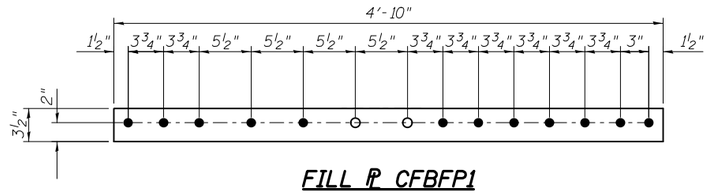
REPAIR ANGLE CFBRL1

L 5 x 3½ x ½ x 5'-1" (NTR)
(6-required)
(3-Left angles shown, 3-Right angles opposite hand)



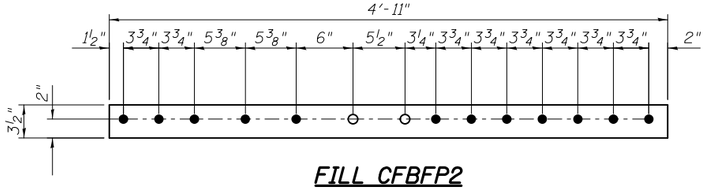
REPAIR ANGLE CFBRL2

L 5 x 3½ x ½ x 5'-2" (NTR)
(4-required)
(2-Left angles shown, 2-Right angles opposite hand)



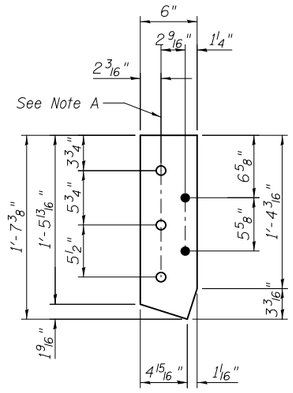
FILL PL CFBFP1

PL 7/16" x 3½" x 4'-10"
(6-required)



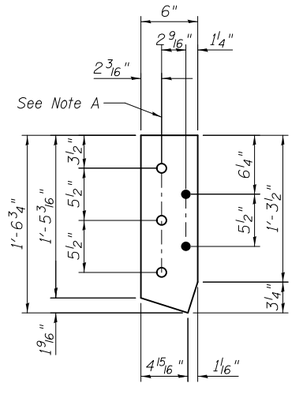
FILL CFBFP2

PL 7/16" x 3½" x 4'-11"
(4-required)



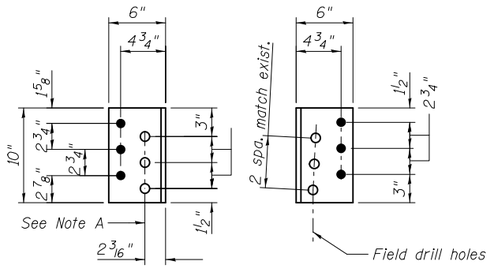
FILL PL CFBFP7

PL 7/16" x 6" x 1'-7 3/8"
(6-required)



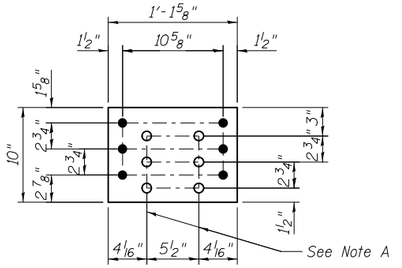
FILL PL CFBFP8

PL 7/16" x 6" x 1'-6¾"
(4-required)



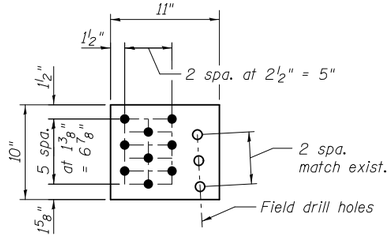
REPAIR ANGLE CFBRL3

L 6 x 6 x ½ x 0'-10"
(6-required)
(3-Left angles shown, 3-Right angles opposite hand)



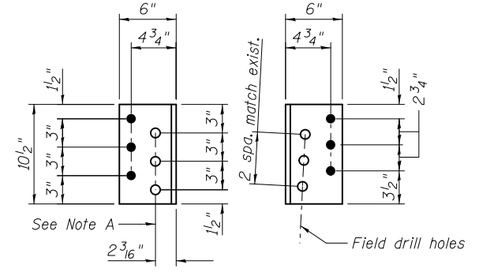
FILL PL CFBFP3

PL 7/16" x 10" x 1'-1 5/8"
(6-required)



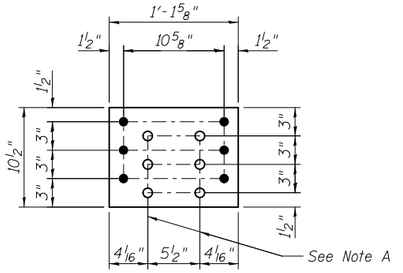
FILL PL CFBFP5

PL 3/8" x 10" x 0'-11"
(12-required)



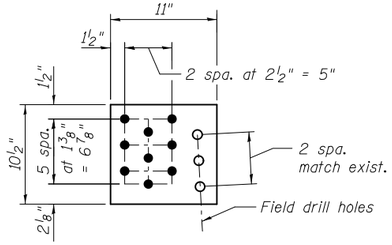
REPAIR ANGLE CFBRL4

L 6 x 6 x ½ x 0'-10½"
(4-required)
(2-Left angles shown, 2-Right angles opposite hand)



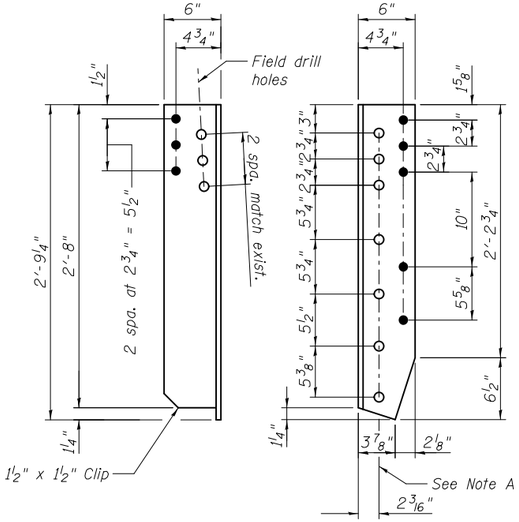
FILL PL CFBFP4

PL 7/16" x 10½" x 1'-1 5/8"
(4-required)



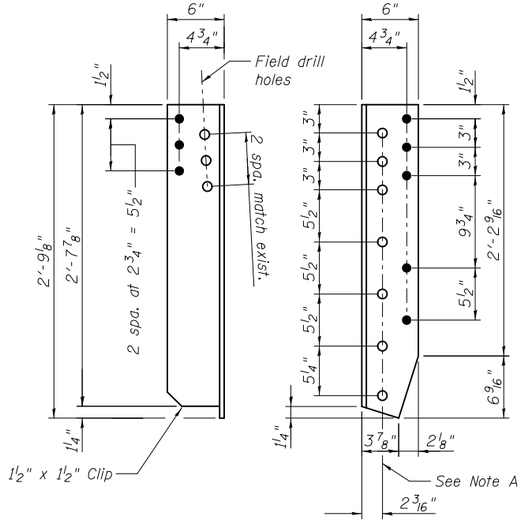
FILL PL CFBFP6

PL 3/8" x 10½" x 0'-11"
(8-required)



REPAIR ANGLE CFBRL5

L 6 x 6 x ½ x 2'-9¼"
(6-required)
(3-Left angles shown, 3-Right angles opposite hand)



REPAIR ANGLE CFBRL6

L 6 x 6 x ½ x 2'-9⅛"
(4-required)
(2-Left angles shown, 2-Right angles opposite hand)

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

Notes:
For location of repair angles and fill plates, see Sheet 65 of 112.
Load carrying components designated "NTR" shall conform to the Impact Testing Requirement, Zone 2.

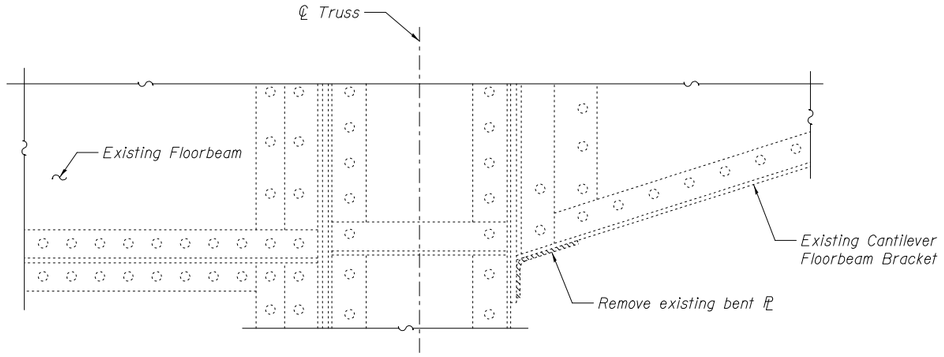
MODJESKI and MASTERS
Experience great bridges.

USER NAME =	DESIGNED - RLM	REVISED
	CHECKED - APL	REVISED
PLOT SCALE =	DRAWN - PRC	REVISED
PLOT DATE = 10/05/2015	CHECKED - RLM	REVISED

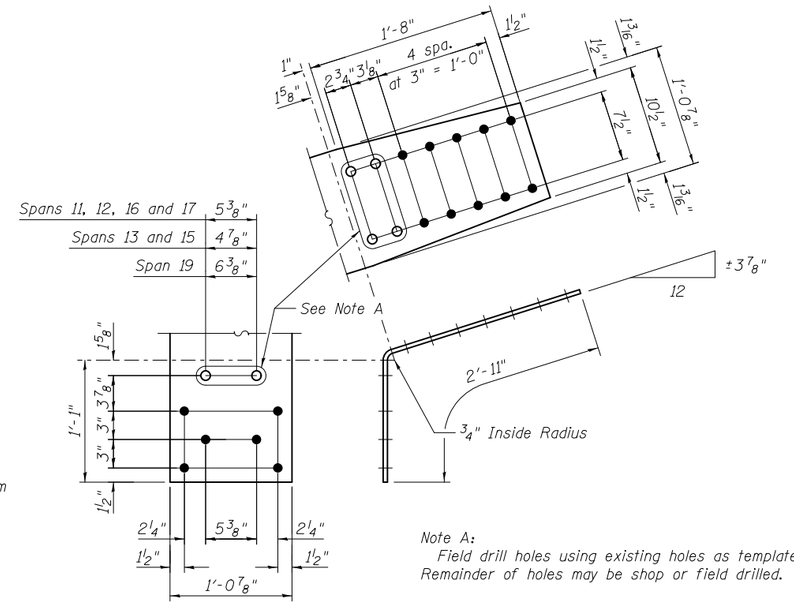
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

CANTILEVER FLOORBEAM BRACKET – TOP FLANGE REPAIRS – 2
S.N. 090-0030 CEDAR STREET BRIDGE OVER ILLINOIS RIVER
SHEET NO. 66 OF 112 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
669	(103B)I-7	PEORIA/TAZEWELL	180	134
		CONTRACT NO. 68A93		
	ILLINOIS FED. AID PROJECT			



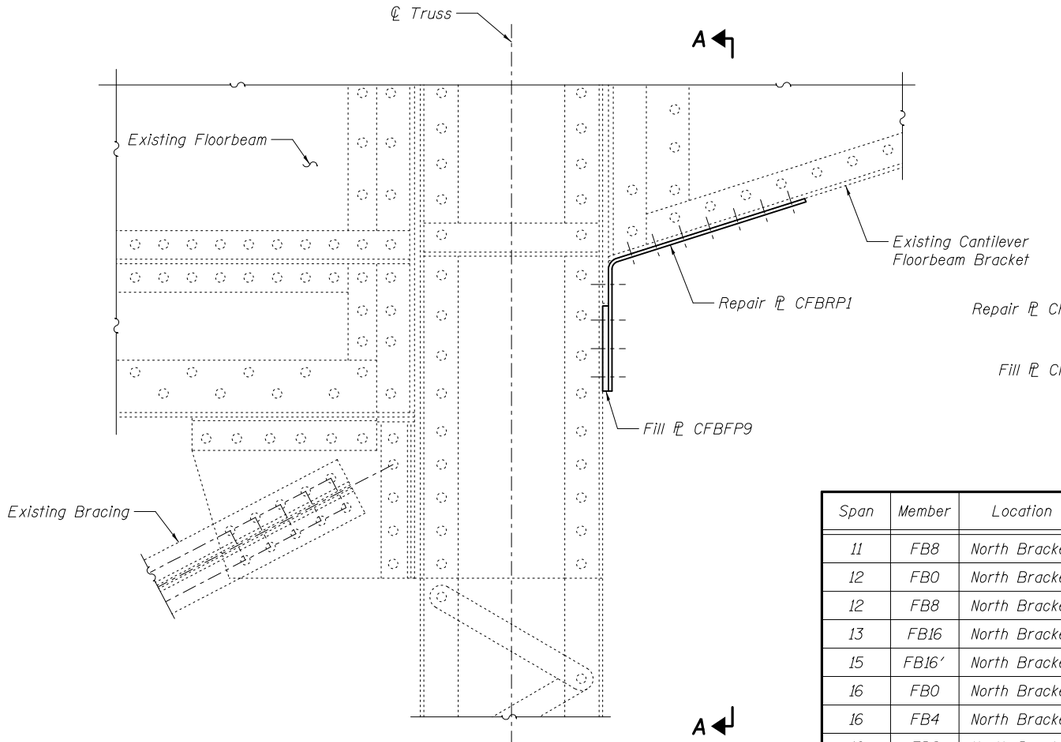
CANTILEVER FLOORBEAM BRACKET BENT PLATE REMOVAL



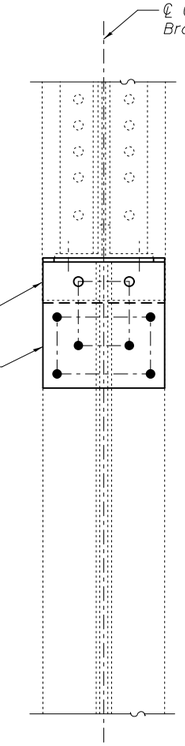
Note A:
Field drill holes using existing holes as template. Remainder of holes may be shop or field drilled.

REPAIR PL CFBRP1

Bent PL ½" x 12⅞" x 2'-11"
(13-required)

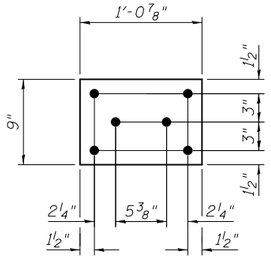


CANTILEVER FLOORBEAM BRACKET REPAIR



SECTION A-A

Span	Member	Location
11	FB8	North Bracket
12	FB0	North Bracket
12	FB8	North Bracket
13	FB16	North Bracket
15	FB16'	North Bracket
16	FB0	North Bracket
16	FB4	North Bracket
16	FB8	North Bracket
17	FB0	North Bracket
17	FB0	South Bracket
17	FB8	North Bracket
17	FB8	South Bracket
19	FB0	North Bracket



FILL PL CFBFP9

PL ⅝" x 9" x 1'-0⅞"
(13-required)

LEGEND

- Existing fastener
- New bolt in new hole
- New bolt in existing hole

BILL OF MATERIAL

Item	Unit	Total
Structural Steel Repair	Pound	1,310

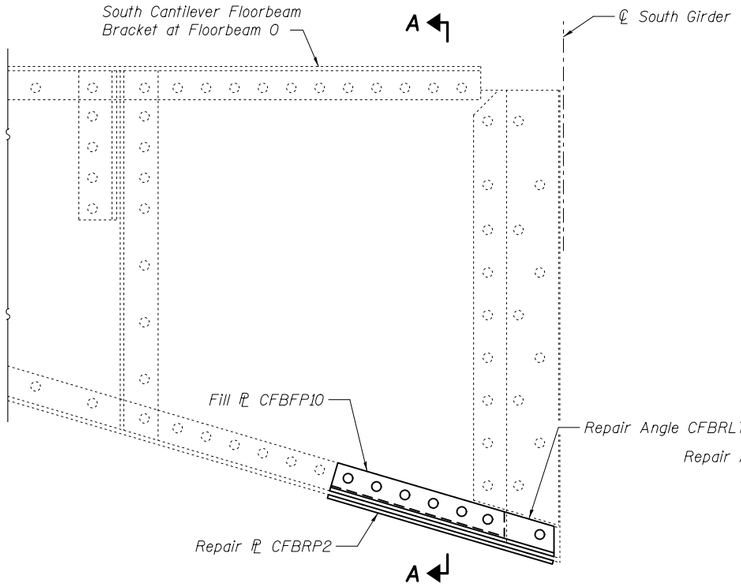
MODJESKI and MASTERS
Experience greet bridges.

USER NAME =	DESIGNED - RLM	REVISED
	CHECKED - YSS	REVISED
PLOT SCALE =	DRAWN - PRC	REVISED
PLOT DATE = 10/05/2015	CHECKED - RLM	REVISED

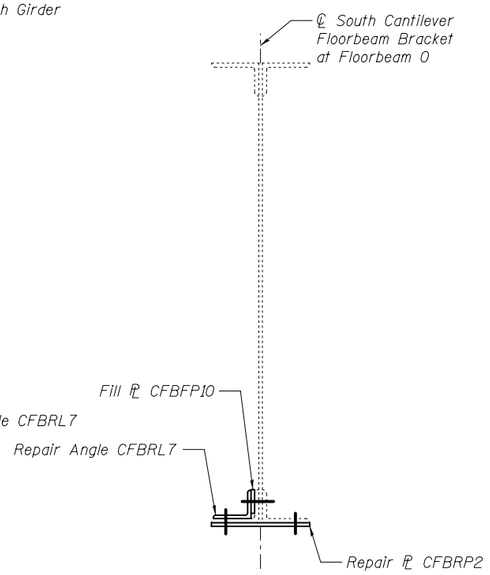
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

CANTILEVER FLOORBEAM BRACKET – BOTTOM FLANGE REPAIRS – 1
S.N. 090-0030 CEDAR STREET BRIDGE OVER ILLINOIS RIVER
SHEET NO. 67 OF 112 SHEETS

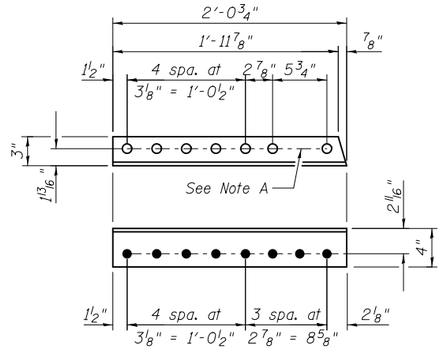
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
669	(103B)I-7	PEORIA/TAZEWELL	180	135
		CONTRACT NO. 68A93		
	ILLINOIS	FED. AID PROJECT		



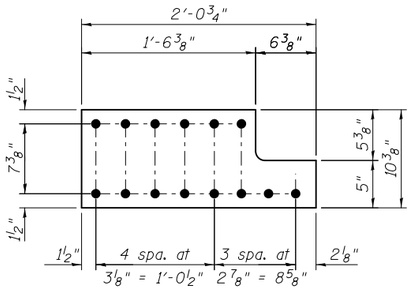
SPAN 8 AT FLOORBEAM 0
SOUTH CANTILEVER FLOORBEAM BRACKET REPAIR
(Looking West)



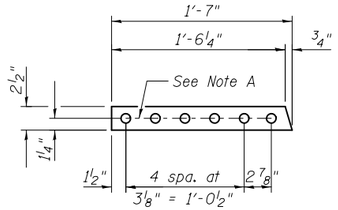
SECTION A-A



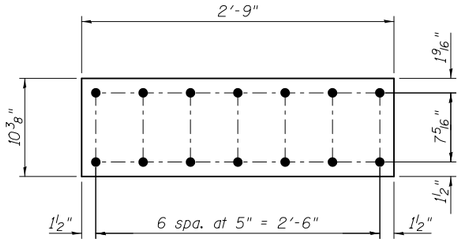
REPAIR ANGLE CFBRL7
L 4 x 3 x 3/8 x 2'-0 3/4"
(1-required)



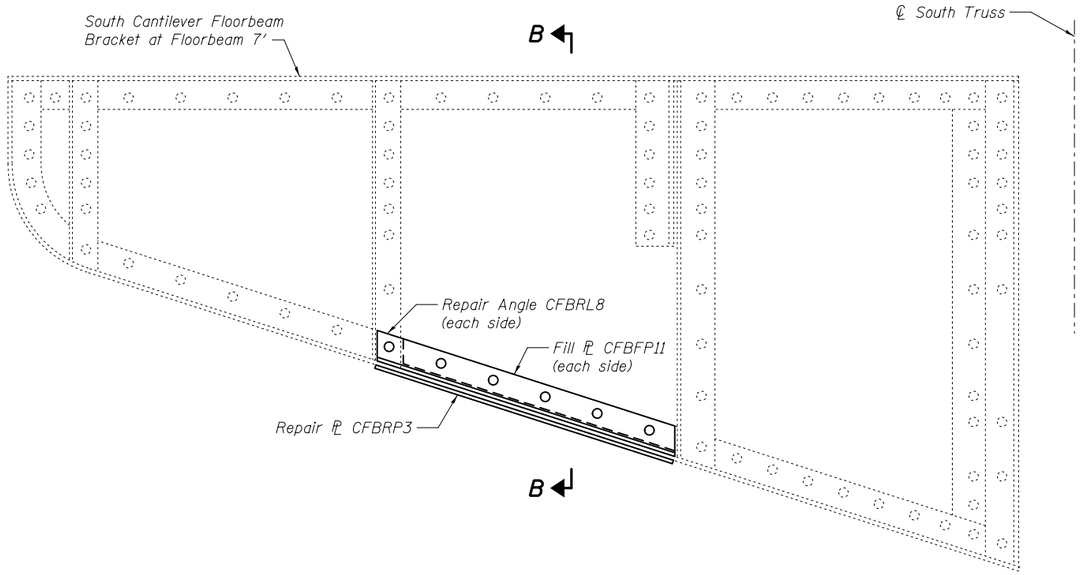
REPAIR PL CFBRP2
PL 3/8" x 10 3/8" x 2'-0 3/4"
(1-required)



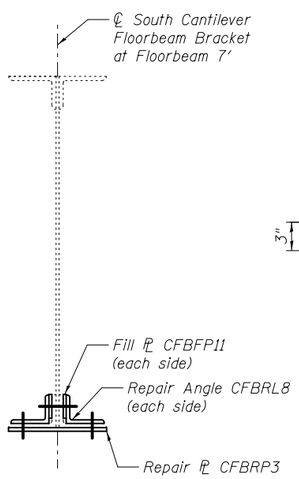
FILL PL CFBFP10
PL 3/8" x 2 1/2" x 1'-7"
(1-required)



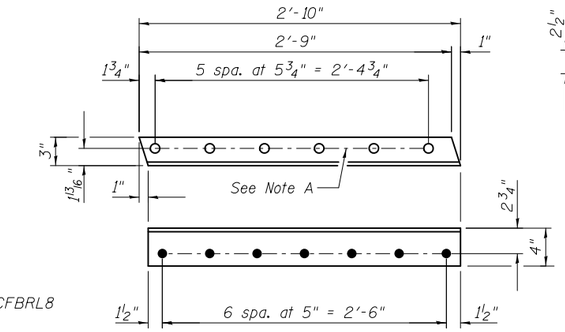
REPAIR PL CFBRP3
PL 3/8" x 10 3/8" x 2'-9"
(1-required)



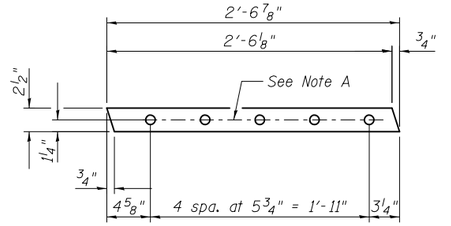
SPAN 14-15 AT FLOORBEAM 7'
SOUTH CANTILEVER FLOORBEAM BRACKET REPAIR
(Looking West)



SECTION B-B



REPAIR ANGLE CFBRL8 (LT AND RT)
L 4 x 3 x 3/8 x 2'-10"
(1-required, left)
(1-required, right)



FILL PL CFBFP11
PL 5/16" x 2 1/2" x 2'-6 7/8"
(2-required)

LEGEND

- Existing fastener
- New bolt in new hole
- New bolt in existing hole

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

BILL OF MATERIAL

Item	Unit	Total
Structural Steel Repair	Pound	180

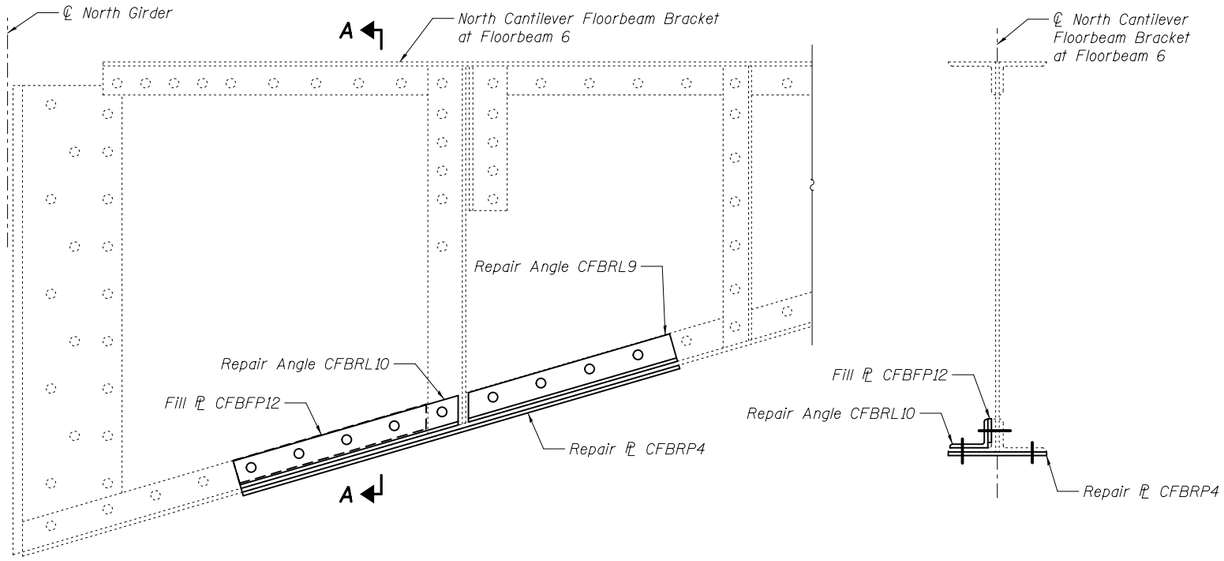
MODJESKI and MASTERS
Experience great bridges.

USER NAME =	DESIGNED - RLM	REVISED	
	CHECKED - APL	REVISED	
PLOT SCALE =	DRAWN - PRC	REVISED	
PLOT DATE = 10/05/2015	CHECKED - RLM	REVISED	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

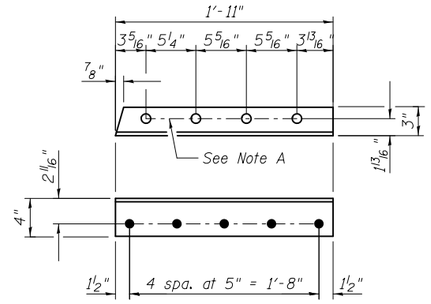
CANTILEVER FLOORBEAM BRACKET – BOTTOM FLANGE REPAIRS – 2
S.N. 090–0030 CEDAR STREET BRIDGE OVER ILLINOIS RIVER
SHEET NO. 68 OF 112 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
669	(103B)I-7	PEORIA/TAZEWELL	180	136
		CONTRACT NO. 68A93		
	ILLINOIS FED. AID PROJECT			

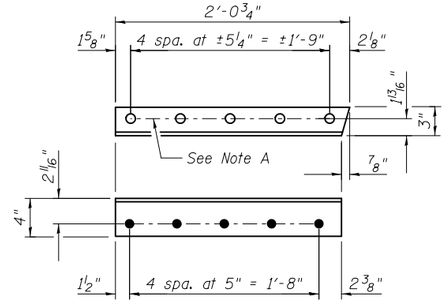


SPAN 20 AT FLOORBEAM 6
NORTH CANTILEVER FLOORBEAM BRACKET REPAIR
(Looking West)

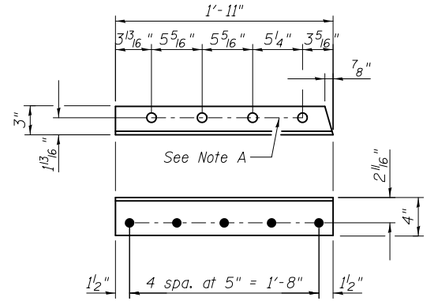
SECTION A-A



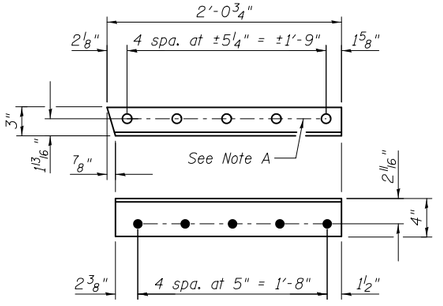
REPAIR ANGLE CFBRL9
L 4 x 3 x 3/8 x 1'-11"
(1-required)



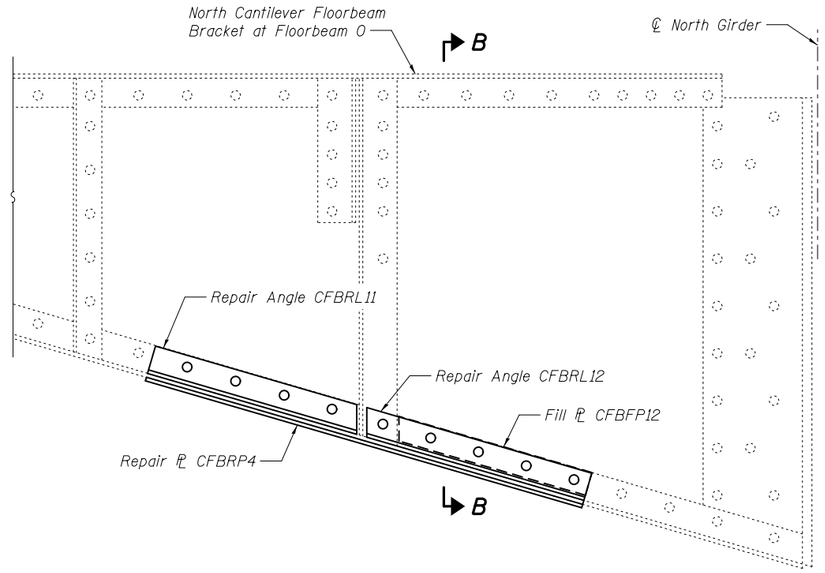
REPAIR ANGLE CFBRL10
L 4 x 3 x 3/8 x 2'-0 3/4"
(1-required)



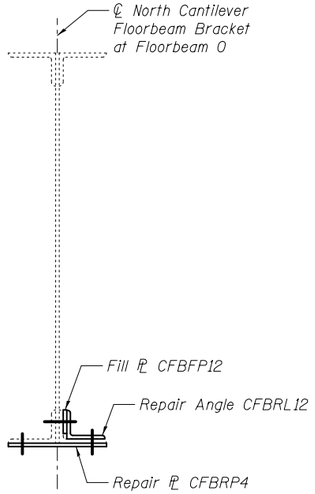
REPAIR ANGLE CFBRL11
L 4 x 3 x 3/8 x 1'-11"
(1-required)



REPAIR ANGLE CFBRL12
L 4 x 3 x 3/8 x 2'-0 3/4"
(1-required)

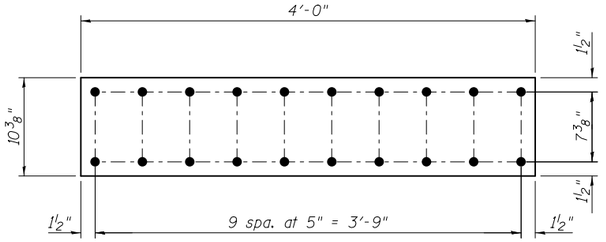


SPAN 21 AT FLOORBEAM 0
NORTH CANTILEVER FLOORBEAM BRACKET REPAIR
(Looking East)

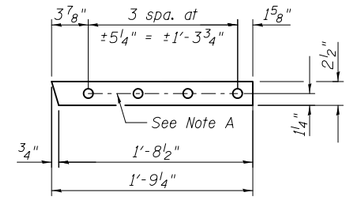


SECTION B-B

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



REPAIR PL CFBRP4
PL 3/8" x 10 3/8" x 4'-0"
(2-required)



FILL PL CFBFP12
PL 3/8" x 2 1/2" x 1'-9 1/4"
(2-required)

LEGEND

- Existing fastener
- New bolt in new hole
- New bolt in existing hole

BILL OF MATERIAL

Item	Unit	Total
Structural Steel Repair	Pound	240

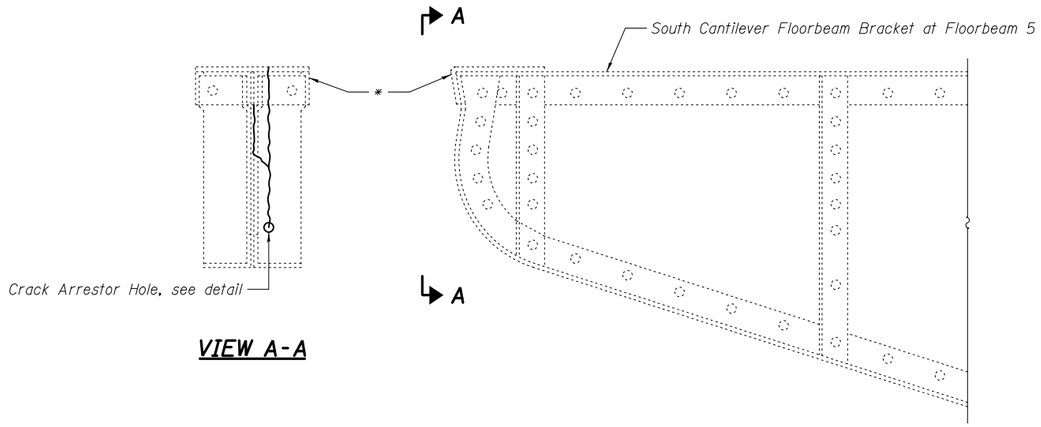
MODJESKI and MASTERS
Experience great bridges.

USER NAME =	DESIGNED - RLM	REVISED
	CHECKED - APL	REVISED
PLOT SCALE =	DRAWN - PRC	REVISED
PLOT DATE = 10/05/2015	CHECKED - RLM	REVISED

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

CANTILEVER FLOORBEAM BRACKET – BOTTOM FLANGE REPAIRS – 3
S.N. 090–0030 CEDAR STREET BRIDGE OVER ILLINOIS RIVER
SHEET NO. 69 OF 112 SHEETS

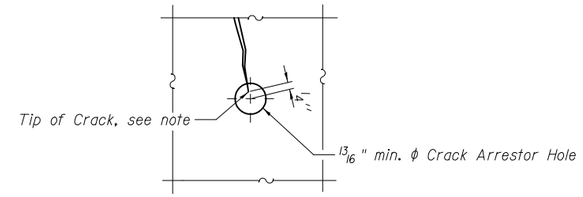
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
669	(103B)I-7	PEORIA/TAZEWELL	180	137
		CONTRACT NO. 68A93		
	ILLINOIS	FED. AID PROJECT		



VIEW A-A

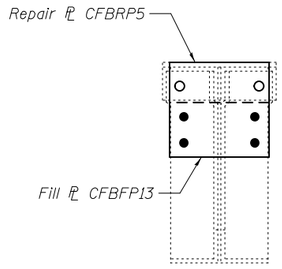
REPAIR TREATMENT

* Existing bent plate and flange angle are warped. Members shall be mechanically straightened prior to attaching repair plates. Heat strengthening is not allowed. Contractor shall submit a straightening procedure to the Engineer for review and approval prior to performing work. Cost to straighten existing members shall be included with Structural Steel Repair.

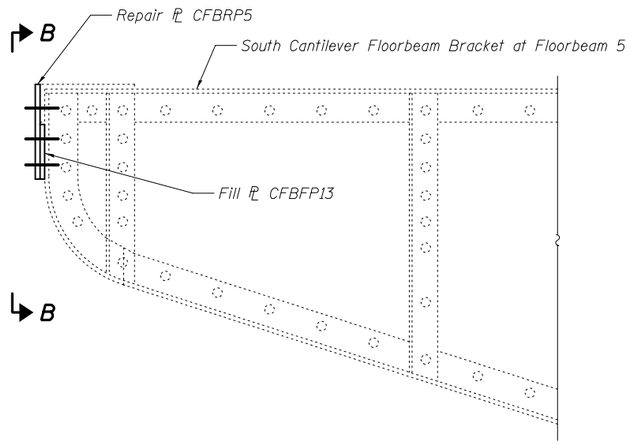


CRACK ARRESTOR HOLE DETAIL

Note: Locate crack tip using liquid dye penetrant or magnetic particle testing. Drill $^{13}/_{16}$" 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. If crack arrestor hole intersects with the cantilever floorbeam bracket web or vertical leg of flange angle, drill $^{13}/_{16}$" min. ϕ hole in web and vertical leg of flange angle at location of intersection. Cost shall be included with Structural Steel Repair.

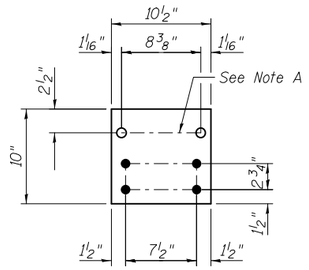


VIEW B-B



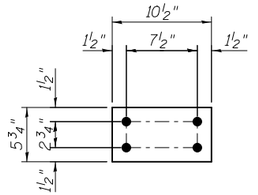
REPAIR PLATE INSTALLATION

SPAN 11 AT FLOORBEAM 5
SOUTH CANTILEVER FLOORBEAM BRACKET



REPAIR PL CFBRP5

PL ½" x 10" x 0'-10½"
(1-required)



FILL PL CFBFP13

PL ½" x 5¾" x 0'-10½"
(1-required)

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

LEGEND

- Existing fastener
- New bolt in new hole
- New bolt in existing hole

BILL OF MATERIAL

Item	Unit	Total
Structural Steel Repair	Pound	30

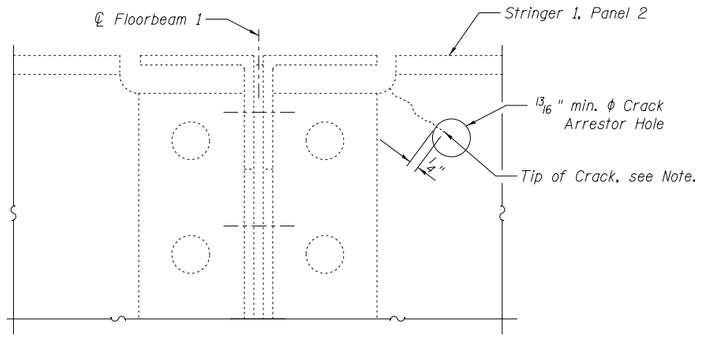
MODJESKI and MASTERS
Experience great bridges.

USER NAME =	DESIGNED - RLM	REVISED	
	CHECKED - APL	REVISED	
PLOT SCALE =	DRAWN - PRC	REVISED	
PLOT DATE = 10/05/2015	CHECKED - RLM	REVISED	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

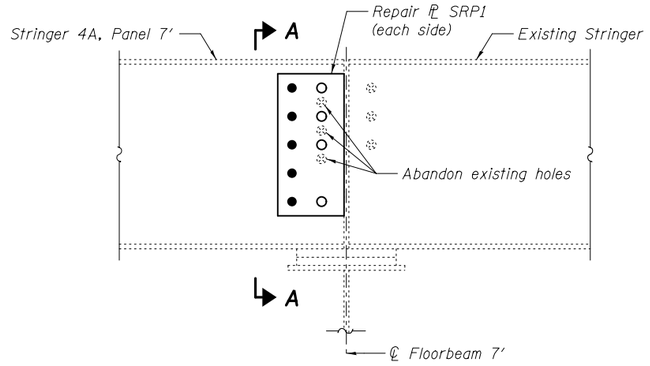
CANTILEVER FLOORBEAM BRACKET – BOTTOM FLANGE REPAIRS – 4
S.N. 090-0030 CEDAR STREET BRIDGE OVER ILLINOIS RIVER
SHEET NO. 70 OF 112 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
669	(103B)I-7	PEORIA/TAZEWELL	180	138
			CONTRACT NO. 68A93	
		ILLINOIS	FED. AID PROJECT	

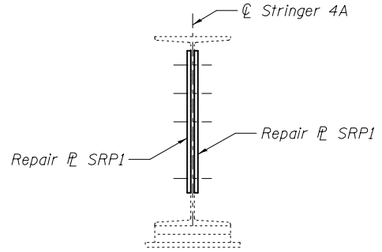


SPAN 19, STRINGER 1, PANEL 2
(Looking North)

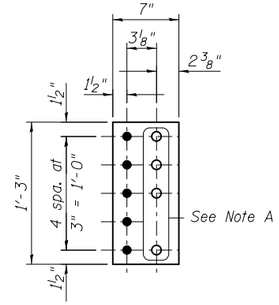
Note: Locate crack tip using liquid dye penetrant or magnetic particle testing. Drill 13/16" min. ϕ crack arrestor hole at the crack tip. After crack arrestor hole has been drilled, dye penetrant or magnetic particle testing shall be used to verify that the drilled hole has captured the crack tip. Cost shall be included in the cost of Structural Steel Repair.



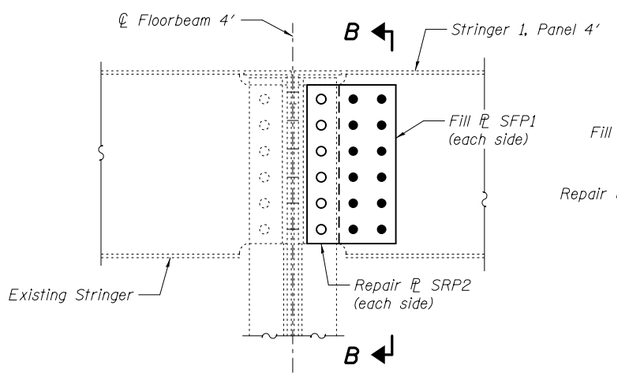
SPAN 14, STRINGER 4A, PANEL 7'
(Looking North)



SECTION A-A

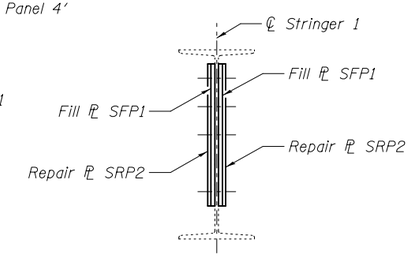


REPAIR ℙ SRP1
ℙ 3/8" x 7" x 1'-3" (NTR)
(2-required)

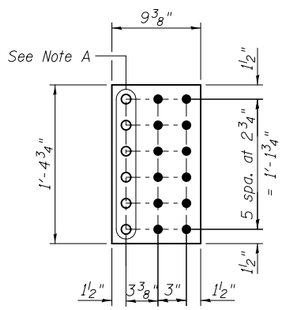


SPAN 14, STRINGER 1, PANEL 4'
(Looking South)

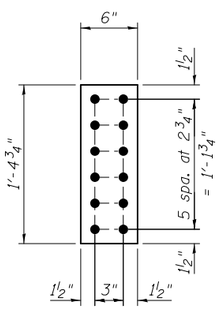
Note: Temporarily support existing stringer. Cost to support stringer shall be included with Structural Steel Repair.



SECTION B-B



REPAIR ℙ SRP2
ℙ 3/8" x 9 3/8" x 1'-4 3/4" (NTR)
(2-required)



FILL ℙ SFP1
ℙ 1/2" x 6" x 1'-4 3/4"
(2-required)

LEGEND

- Open hole
- Existing fastener
- New bolt in new hole
- New bolt in existing hole

BILL OF MATERIAL

Item	Unit	Total
Structural Steel Repair	Pound	110

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

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

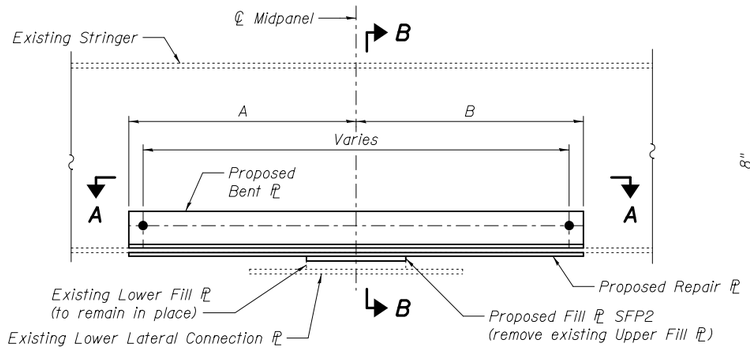
MODJESKI and MASTERS
Experience great bridges.

USER NAME =	DESIGNED - RLM	REVISED	
	CHECKED - APL	REVISED	
PLOT SCALE =	DRAWN - PRC	REVISED	
PLOT DATE = 10/05/2015	CHECKED - RLM	REVISED	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

STRINGER REPAIR DETAILS - 1
S.N. 090-0030 CEDAR STREET BRIDGE OVER ILLINOIS RIVER
SHEET NO. 71 OF 112 SHEETS

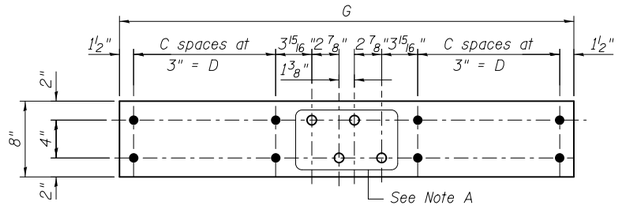
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
669	(103B)I-7	PEORIA/TAZEWELL	180	139
		CONTRACT NO. 68A93		
	ILLINOIS	FED. AID PROJECT		



STRINGER REPAIR DETAIL

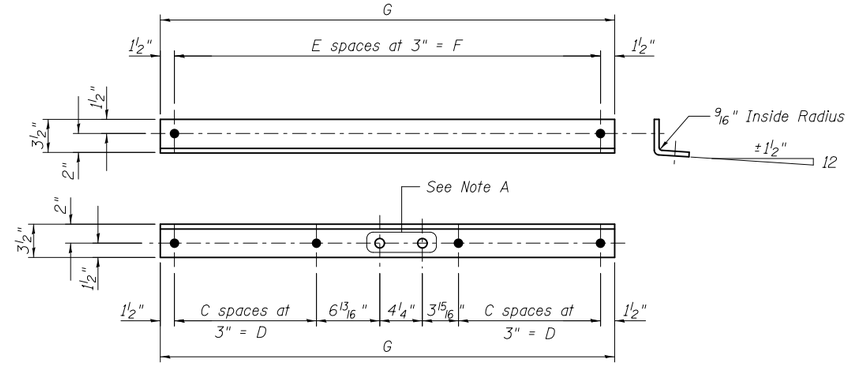
(Looking North)

Note: See Table for repair locations and piece marks.



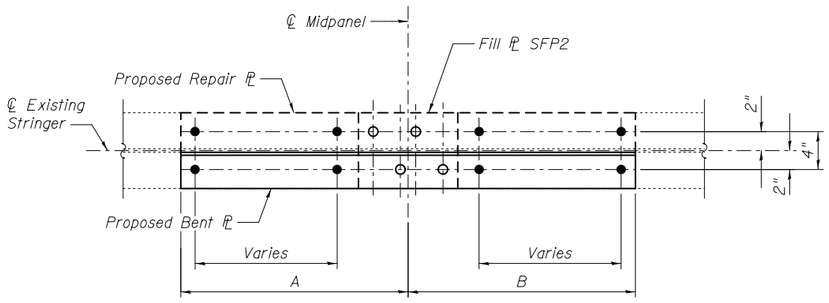
REPAIR ℄ SRP

℄ 3/8" x 8" x G (NTR)
(H-required)

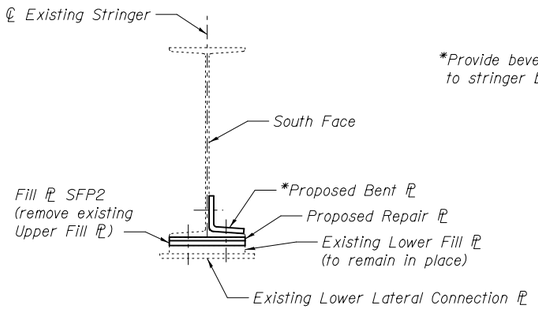


BENT ℄ SBP

℄ 3/8" x 7" x G (NTR)
(H-required)

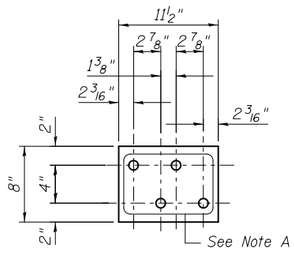


SECTION A-A



SECTION B-B

*Provide beveled washers for connection to stringer bottom flange



FILL ℄ SFP2

℄ ½" x 8" x 0'-11½"
(7-required)

STRINGER REPAIR LOCATIONS

Span	Stringer	Panel	A	B	Repair ℄	Bent ℄
13	4	11, 13 and 14	1'-6"	1'-6"	SRP3	SBP1
15	4	10'	1'-6"	1'-6"	SRP3	SBP1
15	4	11' and 13'	2'-0"	2'-0"	SRP4	SBP2
15	4	12'	2'-6"	2'-6"	SRP5	SBP3

REPAIR AND BENT PLATE DIMENSIONS

Piece Mark	C	D	E	F	G	H
SRP3	3	9"	——	——	3'-0"	4
SRP4	5	1'-3"	——	——	4'-0"	2
SRP5	7	1'-9"	——	——	5'-0"	1
SBP1	3	9"	11	2'-9"	3'-0"	4
SBP2	5	1'-3"	15	3'-9"	4'-0"	2
SBP3	7	1'-9"	19	4'-9"	5'-0"	1

LEGEND

- ● New bolt in new hole
- ○ New bolt in existing hole

BILL OF MATERIAL

Item	Unit	Total
Structural Steel Repair	Pound	810

Notes:
Lower lateral bracing shall be supported during stringer repair. Contractor shall submit support procedure to Engineer for review and approval prior to performing work. Cost to support lower lateral bracing shall be included with Structural Steel Repair.
Load carrying components designated "NTR" shall conform to the Impact Testing Requirement, Zone 2.

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

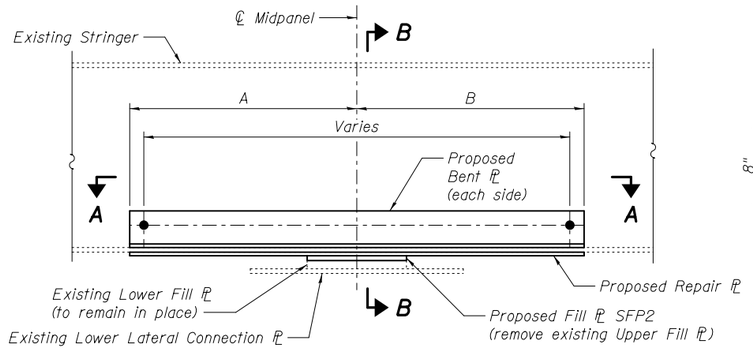
MODJESKI and MASTERS
Experience great bridges.

USER NAME =	DESIGNED - RLM	REVISED
	CHECKED - APL	REVISED
PLOT SCALE =	DRAWN - PRC	REVISED
PLOT DATE = 10/05/2015	CHECKED - RLM	REVISED

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

STRINGER REPAIR DETAILS – 2
S.N. 090–0030 CEDAR STREET BRIDGE OVER ILLINOIS RIVER
SHEET NO. 72 OF 112 SHEETS

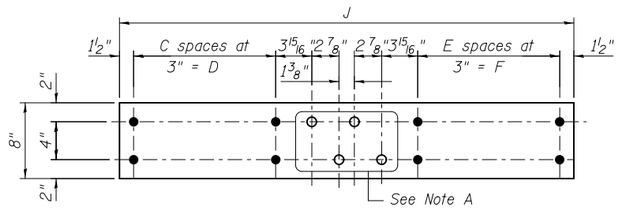
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
669	(103B)I-7	PEORIA/TAZEWELL	180	140
		CONTRACT NO. 68A93		
ILLINOIS	FED. AID PROJECT			



STRINGER REPAIR DETAIL

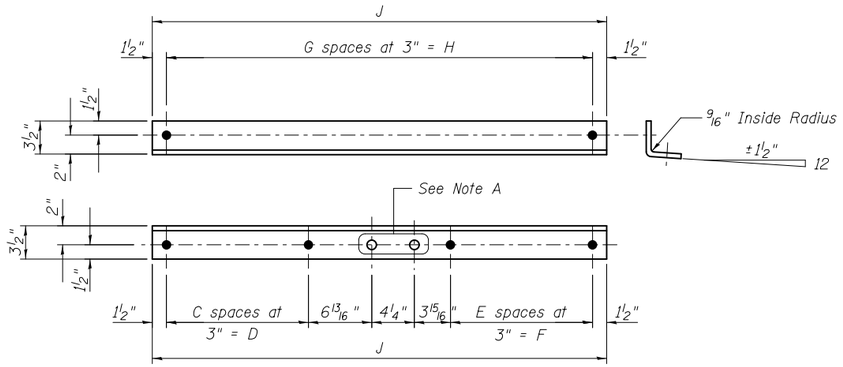
(Looking North)

Note: See Table for repair locations and piece marks.



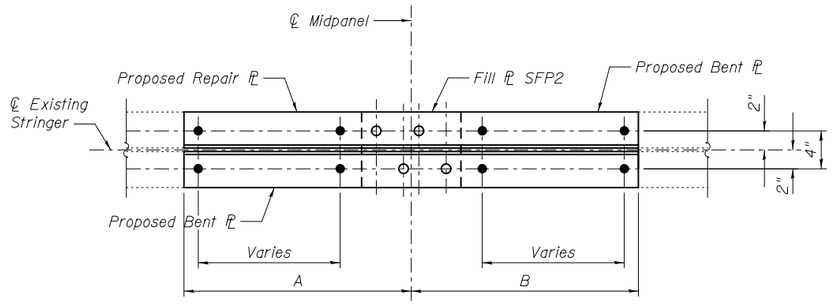
REPAIR ℙ SRP

ℙ 3/8" x 8" x J (NTR)
(K-required)

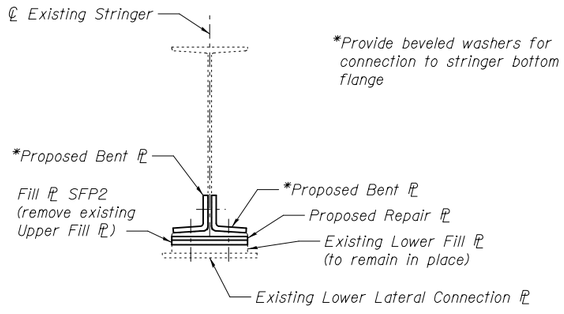


BENT ℙ SBP

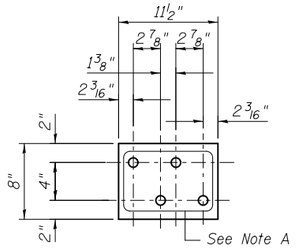
ℙ 3/8" x 7" x J (NTR)
(Bent ℙ for south face shown,
Bent ℙ for north face opposite hand)
(K-required)



SECTION A-A



SECTION B-B



FILL ℙ SFP2

ℙ ½" x 8" x 0'-11½"
(3-required)

STRINGER REPAIR LOCATIONS

Span	Stringer	Panel	A	B	Repair ℙ	Bent ℙ
14	4	4	9"	2'-6"	SRP6	SBP4
15	4	14'	3'-9"	1'-3"	SRP7	SBP5
15	4	15'	2'-0"	3'-0"	SRP8	SBP6

REPAIR AND BENT PLATE DIMENSIONS

Piece Mark	C	D	E	F	G	H	J	K
SRP6	——	——	7	1'-9"	——	——	3'-3"	1
SRP7	12	3'-0"	2	6"	——	——	5'-0"	1
SRP8	5	1'-3"	9	2'-3"	——	——	5'-0"	1
SBP4	——	——	7	1'-9"	12	3'-0"	3'-3"	2
SBP5	12	3'-0"	2	6"	19	4'-9"	5'-0"	2
SBP6	5	1'-3"	9	2'-3"	19	4'-9"	5'-0"	2

LEGEND

- ● New bolt in new hole
- ○ New bolt in existing hole

BILL OF MATERIAL

Item	Unit	Total
Structural Steel Repair	Pound	540

Notes:
Lower lateral bracing shall be supported during stringer repair. Contractor shall submit support procedure to Engineer for review and approval prior to performing work. Cost to support lower lateral bracing shall be included with Structural Steel Repair.
Load carrying components designated "NTR" shall conform to the Impact Testing Requirement, Zone 2.

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

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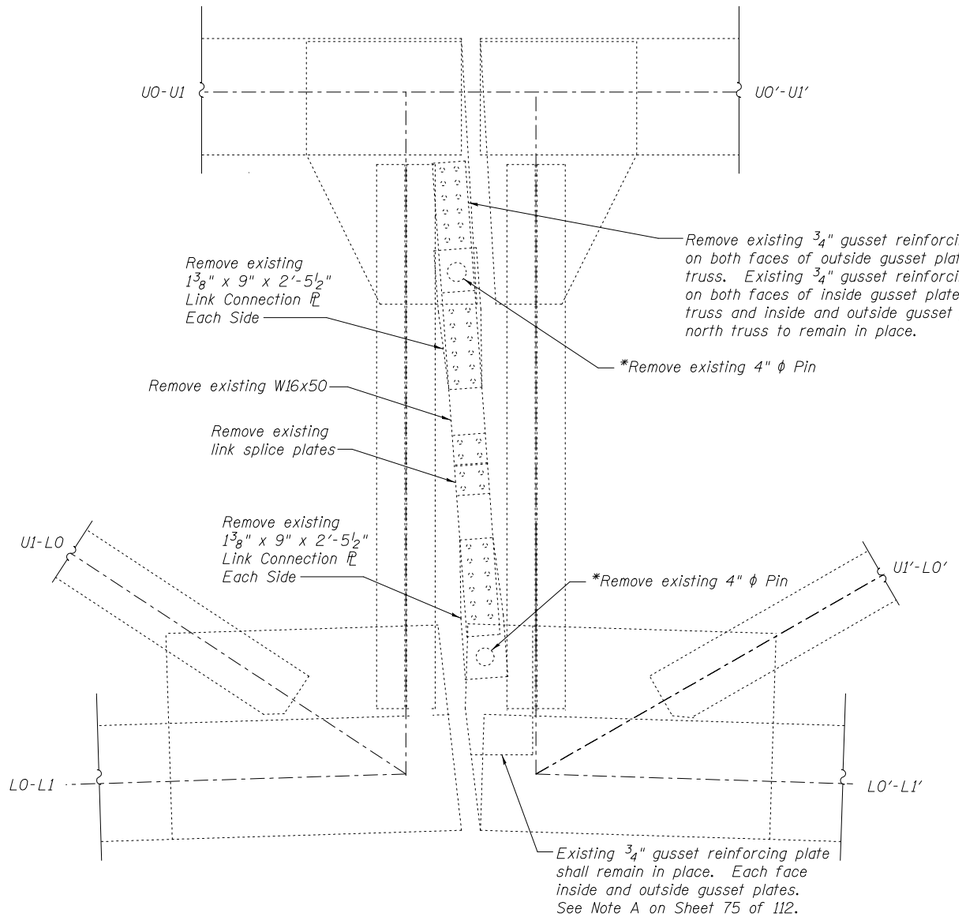
Experience great bridges.

USER NAME =	DESIGNED - RLM	REVISED
	CHECKED - APL	REVISED
PLOT SCALE =	DRAWN - PRC	REVISED
PLOT DATE = 10/05/2015	CHECKED - RLM	REVISED

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

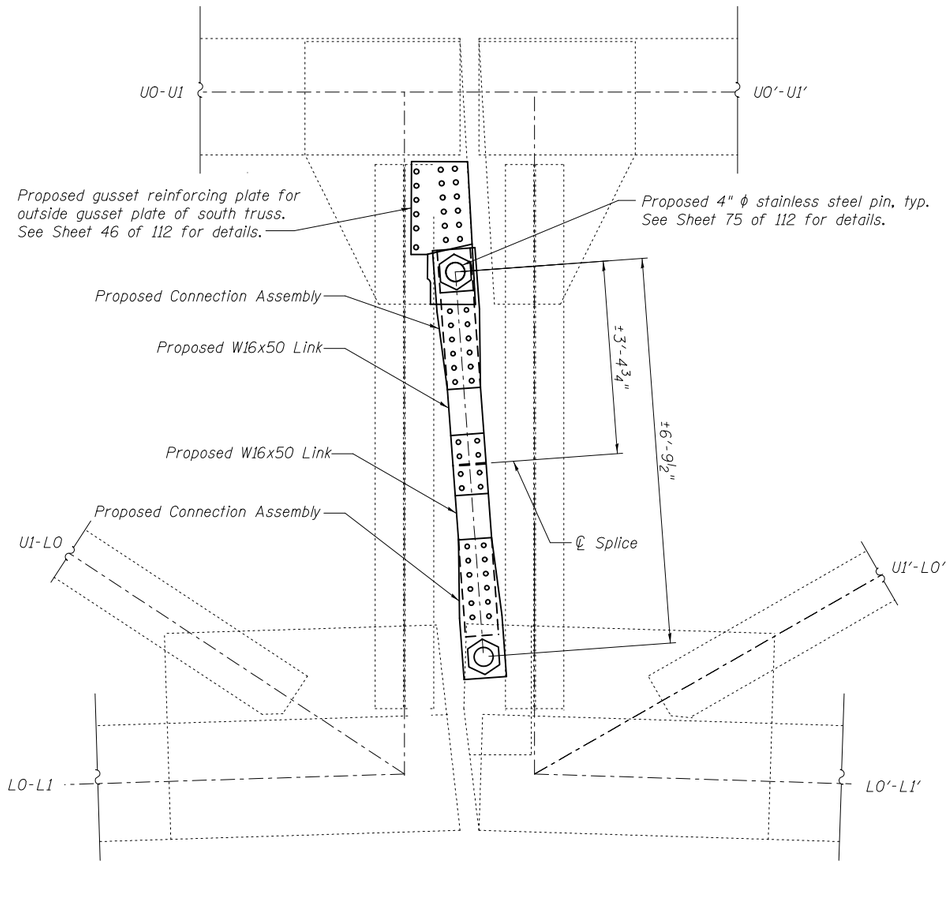
STRINGER REPAIR DETAILS – 3
S.N. 090–0030 CEDAR STREET BRIDGE OVER ILLINOIS RIVER
SHEET NO. 73 OF 112 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
669	(103B)I-7	PEORIA/TAZEWELL	180	141
		CONTRACT NO. 68A93		
	ILLINOIS	FED. AID PROJECT		



ELEVATION AT EXISTING PIN AND LINK ASSEMBLY

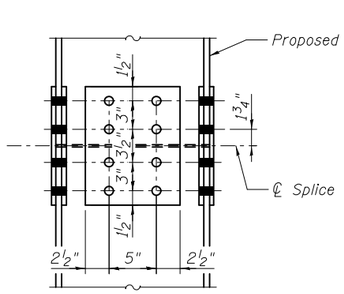
South truss shown. North truss similar.



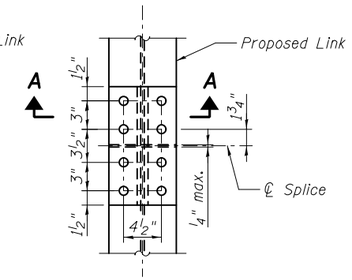
ELEVATION AT PROPOSED PIN AND LINK ASSEMBLY

South truss shown. North truss similar.

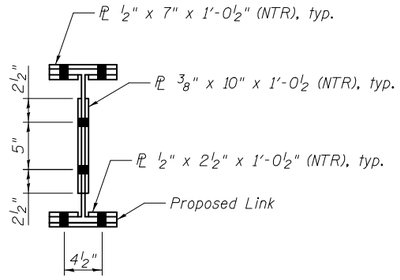
* Hole in existing gusset plates and existing gusset reinforcing plates to remain in place shall be line bored to 4 1/2" ϕ nominal. See Note B on Sheet 75 of 112.



SIDE VIEW



ELEVATION



SECTION A-A

SPLICE DETAILS

BILL OF MATERIAL

Item	Unit	Total
Pin and Link Plate Replacement	Each	2
Temporary Support System	L. Sum	1

Notes:

Load carrying components designated "NTR" shall conform to the impact testing requirement, Zone 2.

The Contractor shall provide a support system for the truss in the area of existing pin and link replacement. See special provision Temporary Support System.

Estimated load to be supported during pin and link replacement = 45 tons. This load is based on an assumed construction live load of 20 psf. The Contractor shall determine the actual live load to be supported during construction and design the temporary support system accordingly. This analysis shall be included in the Contractor's Structural Assessment Report.

Existing Structural steel shall only be cleaned and painted as required by the special provision Cleaning and Painting Contact Surface Areas of Existing Steel Structures. Cost included with cost of Pin and Link Plate Replacement.

The pins, links, connection assemblies, splice plates, bushings nuts, set bolts, neoprene pad, silicone sealant and high strength bolts are the items included in Pin and Link Plate Replacement and will be paid for at the contract unit price per each replacement location.

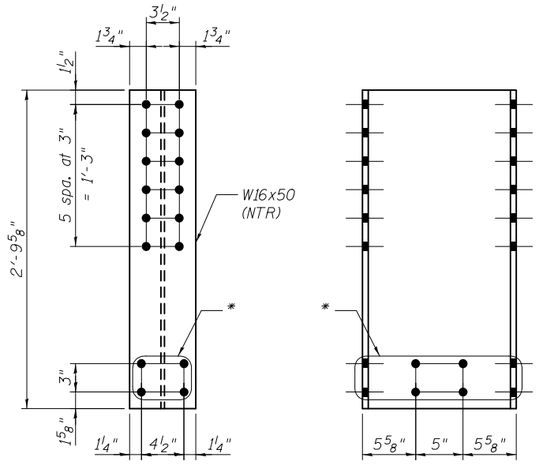
MODJESKI and MASTERS
Experience great bridges.

USER NAME =	DESIGNED - JAK	REVISED
	CHECKED - RLM	REVISED
PLOT SCALE =	DRAWN - AEC	REVISED
PLOT DATE = 10/05/2015	CHECKED - RLM	REVISED

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

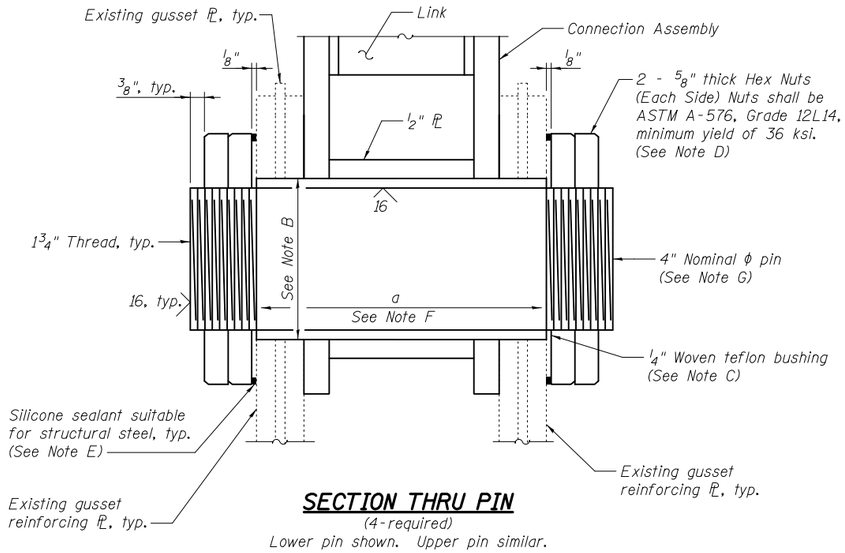
MAIN SPAN PIN AND LINK REPLACEMENT
S.N. 090-0030 CEDAR STREET BRIDGE OVER ILLINOIS RIVER
SHEET NO. 74 OF 112 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
669	(103B)I-7	PEORIA/TAZEWELL	180	142
			CONTRACT NO. 68A93	
		ILLINOIS	FED. AID PROJECT	

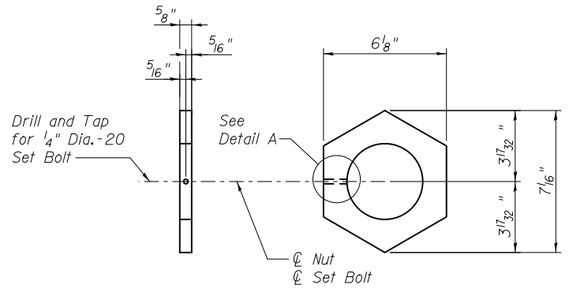


* Shop drill holes in two of the required links.
Holes to be field drilled in the two remaining links.
Install one of each at each pin and link assembly.

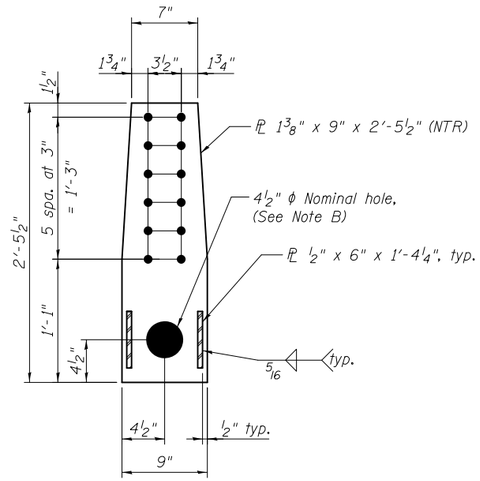
LINK
(4-required)



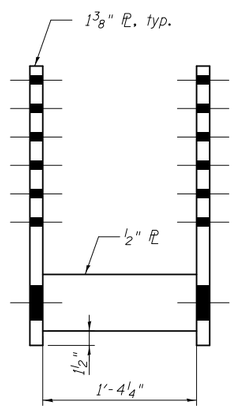
SECTION THRU PIN
(4-required)
Lower pin shown. Upper pin similar.



EXTERIOR NUT DETAIL
(8-required)

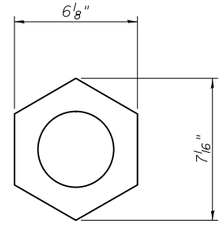


CONNECTION ℄
(2-required per assembly)

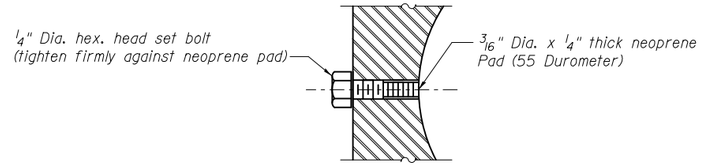


SIDE VIEW

CONNECTION ASSEMBLY
(4-required)



INTERIOR NUT DETAIL
(8-required)



DETAIL A

Set bolts shall conform to the requirements of ASTM A 307 and shall be galvanized according to AASHTO M 232.

Note A:
Existing welds shall be inspected for cracks using liquid dye penetrant or magnetic particle testing. Any cracks that are found shall be identified and reported to the Bureau of Bridges and Structures for further disposition. Clean and paint before installing new link plates.

Note B:
Bore diameter for bushing in link plate, existing gusset plates and existing gusset reinforcing plates shall correspond to bushing manufacturer's allowable tolerances for proper functioning. Hole diameter may be adjusted to allow use of stock bushings.

Note C:
Actual bushing thickness per manufacturer's specifications, ¼" is approximate. Bushings shall be a self lubricating filament with epoxy matrix backed Duralon Bearing, metal backed Fiber Glide Bearing or equivalent. No primer or grease shall be allowed on bushings. Bushings shall be suitable for dynamic loads of 20.000 psi.

Note D:
Tighten inside nuts to bring all bushings into firm contact, then back off ¼ turn and tighten outer nuts and set bolts.

Note E:
Place sealant around nuts after installation. Sealant shall be suitable for prolonged exterior exposure without losing flexibility or adhesion to painted steel surfaces. Proposed products shall be subject to Department's acceptance based on documented testing or other evidence.

Note F:
Body of Pin dimension "a" shall be based on measured thickness of captured plates (including paint), plus ½".

Note G:
Nominal Pin diameter (diameter tolerances subject to Specifications of Teflon Bushing Manufacturer and shall be approved by the Engineer). Pin shall be ASTM A276, UNS 21800 (Nitronic 60 or equal) (No step at threads) 12 threads per Inch.

MODJESKI and MASTERS
Experience great bridges.

USER NAME =	DESIGNED - JAK	REVISED
	CHECKED - RLM	REVISED
PLOT SCALE =	DRAWN - AEC	REVISED
PLOT DATE = 10/05/2015	CHECKED - RLM	REVISED

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

MAIN SPAN PIN AND LINK REPLACEMENT DETAILS
S.N. 090-0030 CEDAR STREET BRIDGE OVER ILLINOIS RIVER
SHEET NO. 75 OF 112 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
669	(103B)I-7	PEORIA/TAZEWELL	180	143
			CONTRACT NO. 68A93	
		ILLINOIS	FED. AID PROJECT	

TABLE OF BOLT REPLACEMENTS

2015 NBIS INSPECTION DEFICIENCY ITEM NO.	LOCATION	SPAN	UNIT	QTY.	DESCRIPTION
344	PIER 6, BEAM 1 AT BOTTOM OF FLANGE TO BEARING	6	EACH	2	Loose Bolts
56	S. END OF FLOORBEAM 2 ON OUTSIDE OF S. GIRDER	8	EACH	1	Rivet Head Popped Off
345	STRINGER 7, NEAR FLOOR BEAM 0	8	EACH	3	Misdrilled Holes
424	S GIRDER, 1' E OF FLOOR BEAM 2	9	EACH	1	Misdrilled Hole
425	STRINGER 5, 8' W OF FLOOR BEAM 4	9	EACH	1	Missing Fastener
390	FLOORBEAM 5 AT S. CANTILEVER ON S. END	11	EACH	1	Sheared Rivet
298	FLOOR BEAM 4 AT STRINGER 6, DIAPHRAGM CONNECTION TO STRINGER 6	12	EACH	3	Missing Bolts
436	L7S-U7S AT L7S	13	EACH	4	Misdrilled Holes
435	2' N. OF S. TRUSS ON FLOOR BEAM 7	13-14	EACH	5	Missing Rivets and Misdrilled Holes
308	STRINGER 3 AT FLOOR BEAM 6, PAN. 6	14	EACH	2	Missing Bolts
309	STRINGER 4 AT FLOOR BEAM 6, PAN. 6	14	EACH	1	Missing Nut
311	STRINGER 4 AT FLOOR BEAM 5, PAN. 5	14	EACH	2	Missing Bolts
311	STRINGER 5 AT FLOOR BEAM 5, PAN. 5	14	EACH	2	Missing Bolts
310	U4N-U5N AT U5N IN SPLICE PLATE	14	EACH	6	Missing Rivets
440	U4S-U5S AT U5S IN SPLICE PLATE	14	EACH	1	Missing Rivet
398	GUSSET PLATE L6N, INNER PLATE	14	EACH	2	Missing Fasteners
319	2' N. OF S. TRUSS ON FLOOR BEAM 7'	14-15	EACH	5	Missing Rivets and Misdrilled Holes
362	STRINGER 4A AT FLOORB BEAM 7'	15	EACH	3	Misdrilled Holes
327	U6N-U7S, AT STRINGER 3 AND 5	16	EACH	2	Missing and Broken Fastener
460	L0S-L1S AT L1S	17	EACH	1	Misdrilled Hole
460	L1S-L2S AT L1S	17	EACH	1	Misdrilled Hole
46	L0S-L0N AT L0N CONNECTION TO PIER 1 (CATWALK)	17	EACH	1	Missing Bolt at Catwalk Connection
459	U0N-U1S AT U0N	17	EACH	4	Loose Bolts
465	L7N-L8N AT L7N	18	EACH	1	Misdrilled Hole
273	STRINGER 2 AT FLOOR BEAM 5, PAN. 5	21	EACH	1	Missing Bolt
33	STRINGER 6 ABOVE FLOOR BEAM 4	21	EACH	4	Holes in Web
417	S. GIRDER 5' FROM FLOOR BEAM 4	22	EACH	1	Misdrilled Hole
474	STRINGER 2, 3, 4, 5, AND 6 EAST OF FLOOR BEAM 5	22	EACH	10	Misdrilled Holes
336	STRINGER 3 AT FLOOR BEAM 2 ON E. FACE	23	EACH	2	Loose Bolts
336	STRINGER 4 AT FLOOR BEAM 2 ON E. FACE	23	EACH	2	Loose Bolts
477	STRINGER 2, 4' E OF FLOOR BEAM 2	30	EACH	1	Misdrilled Hole
478	FLOORBEAM 1-3, S. CANTILEVER BRACKET	34	EACH	12	Misdrilled Holes
480	N. GIRDER, BTW. FLOOR BEAM 4 AND 5	34	EACH	1	Misdrilled Hole
481	S. GIRDER, BTW. FLOOR BEAM 4 AND 6	34	EACH	2	Misdrilled Holes
		TOTAL		91	

Bolt Notes:

1. Contractor shall verify Bolt length and diameter in field prior to ordering material.
2. All bolts shall be ASTM A325 Type 1, mechanically galvanized.
3. Cost of bolt replacement is included in STRUCTURAL STEEL REPAIR.

GRINDING OF WELDS

2015 NBIS INSPECTION DEFICIENCY ITEM NO.	LOCATION	SPAN	UNIT	QTY.	DESCRIPTION
307	FLOOR BEAM 7, 39" SOUTH OF STC	13-14	EACH	1	Grind Weld to Remove $\frac{1}{2}$" Crack only
473	FLOORBEAM 5, STRINGER 3	22	EACH	1	Partially Cracked Tack Weld
375	NORTH GIRDER, TOP FLANGE TO FLOORBEAM 2 CANTILEVER	21	EACH	1	Fully Cracked Tack Weld
472	SOUTH GIRDER, BEARING STIFFENER AT SOUTH FACE AT PIER 21	22	EACH	1	Partially Cracked Tack Weld
		TOTAL		4	

Weld Notes:

1. Remove existing cracked welds by grinding smooth to an ANSI 250 finish.
2. Cost of removal or rewelding is included in STRUCTURAL STEEL REPAIR.
3. Grinding shall be done parallel to the longitudinal axis of the member. Ground surfaces shall be inspected for cracks using dye penetrant or magnetic particle testing. Any cracks that cannot be removed by grinding approximately $\frac{1}{4}$" deep shall be identified and reported to the Bureau of Bridges and Structures for further disposition.

TABLE OF REWELDING

2015 NBIS INSPECTION DEFICIENCY ITEM NO.	LOCATION	SPAN	UNIT	QTY.	DESCRIPTION
446	PLATFORM, E END OF CENTER STRUT	14-15	EACH	1	Broken Weld - Reweld
		TOTAL		1	

(*) Peoria / Tazewell

QUIGG ENGINEERING INC

USER NAME = cstokes	DESIGNED - DRB	REVISED
0900030-68A93-144-StrucSteelRepair.dgn	CHECKED - SDM	REVISED
PLOT SCALE = 0:2.0000 '' / in.	DRAWN - TRF	REVISED
PLOT DATE = 10/05/2015	CHECKED - DRB	REVISED

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

MISCELLANEOUS STEEL REPAIRS
S.N. 090-0030 CEDAR STREET BRIDGE OVER ILLINOIS RIVER
SHEET NO. 76 OF 112 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
669	(103B)I-7	(*)	180	144
		CONTRACT NO. 68A93		
	ILLINOIS FED. AID PROJECT			

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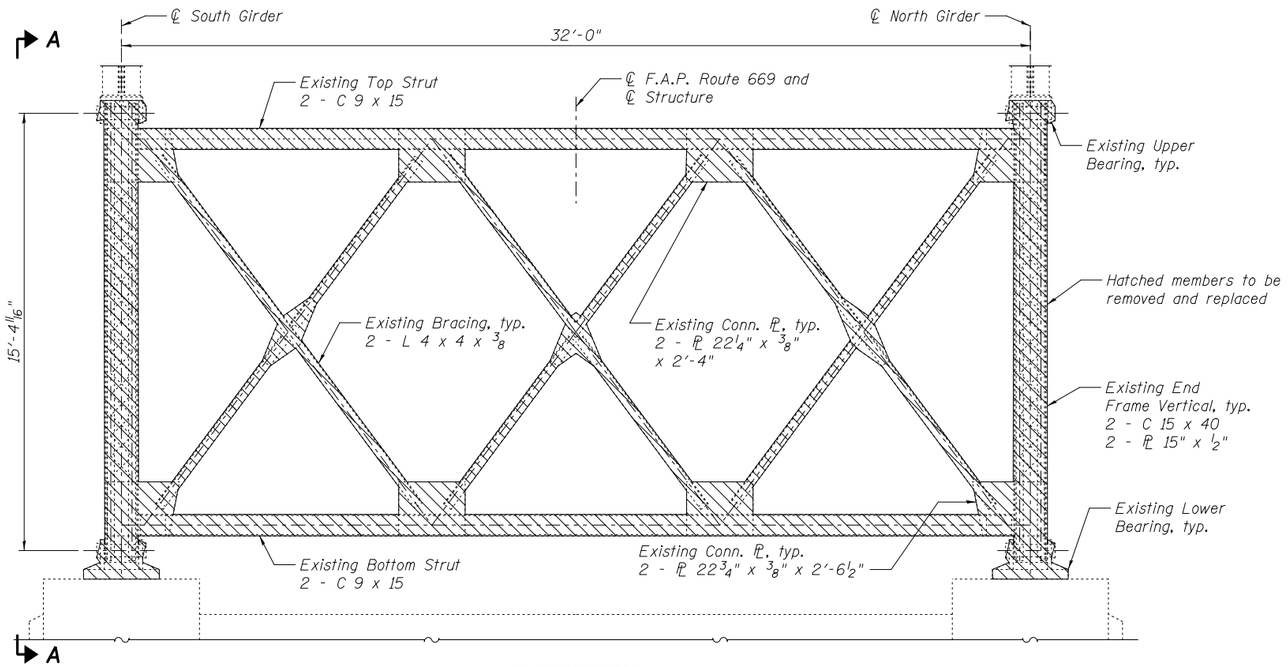
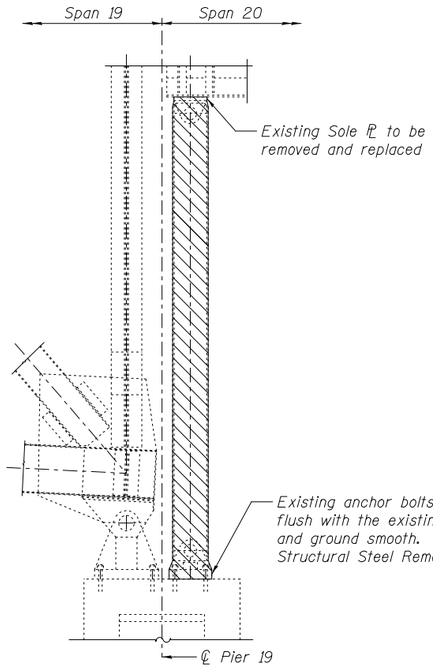


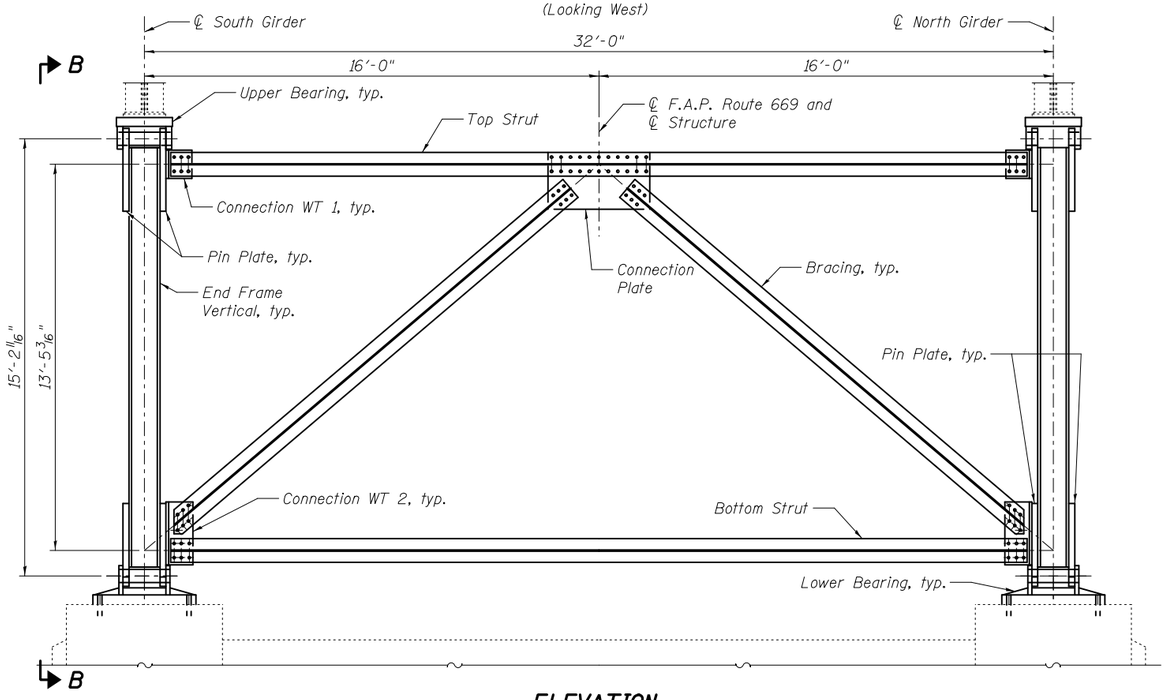
ELEVATION
EXISTING SPAN 20 END FRAME AT PIER 19
(Looking West)



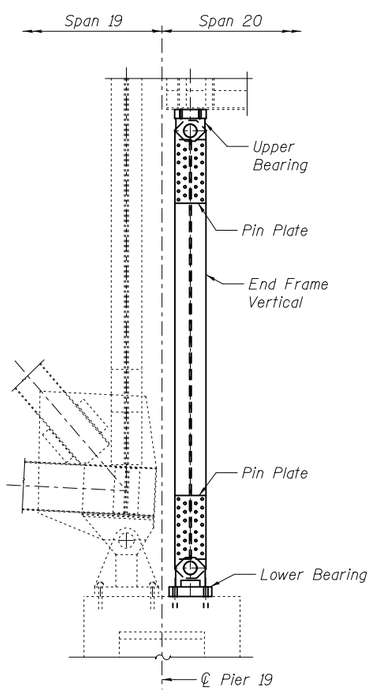
SECTION A-A

END FRAME REPLACEMENT PROCEDURE

1. Install jacking and cribbing. Jacking and cribbing shall bear snugly on girder bottom flanges.
2. Remove upper bearing attachment to girders ensuring that no damage is done to the existing girders.
3. Raise the girders a maximum of 1/8 inch.
4. Completely remove existing bearings and end frame.
5. Install new bearings and end frame.
6. Remove jacking and cribbing.



ELEVATION
PROPOSED SPAN 20 END FRAME AT PIER 19
(Looking West)



SECTION B-B

BEARING REACTION TABLE

Span	Pier	Vertical			
		DL (k)	LL (k)	I (k)	Total (k)
20	19	259	128	96	483

Notes:

Estimated load to be supported during the end frame replacement is 295 tons. This load is based on an assumed construction live load of 20 psf. The Contractor shall determine the actual live load to be supported during construction and design the Temporary Shoring and Cribbing accordingly. This analysis shall be included with the calculations for temporary shoring and cribbing.

See Sheet 78 of 112 for End Frame Details.
See Sheet 79 of 112 for Upper Bearing Details.
See Sheet 80 of 112 for Lower Bearing Details.

Cost to furnish and erect complete in-place the upper and lower bearings and end frame including all structural steel shapes and plates, bearing pins and nuts, and fasteners shall be paid for as Furnishing and Erecting Structural Steel. Anchor bolts for the lower bearings will be paid for separately.

Removal and disposal of the existing bearings, end frame and miscellaneous items identified on the plans shall be in accordance with the special provision Structural Steel Removal.

BILL OF MATERIAL

Item	Unit	Total
Furnishing and Erecting Structural Steel	L. Sum	1
Structural Steel Removal	L. Sum	1
Temporary Shoring and Cribbing	L. Sum	1

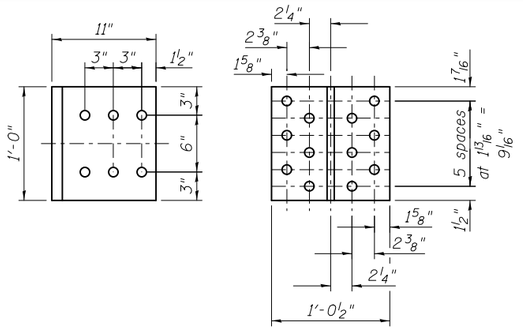
MODJESKI and MASTERS
Experience great bridges.

USER NAME =	DESIGNED - APL	REVISED	
	CHECKED - JTH	REVISED	
PLOT SCALE =	DRAWN - CMM	REVISED	
PLOT DATE = 10/05/2015	CHECKED - RLM	REVISED	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

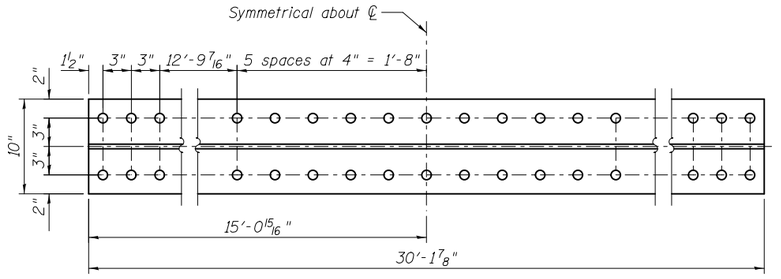
BEARING AND END FRAME REPLACEMENT AT SPAN 20, PIER 19
S.N. 090-0030 CEDAR STREET BRIDGE OVER ILLINOIS RIVER
SHEET NO. 77 OF 112 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
669	(103B)I-7	PEORIA/TAZEWELL	180	145
		CONTRACT NO. 68A93		
	ILLINOIS FED. AID PROJECT			



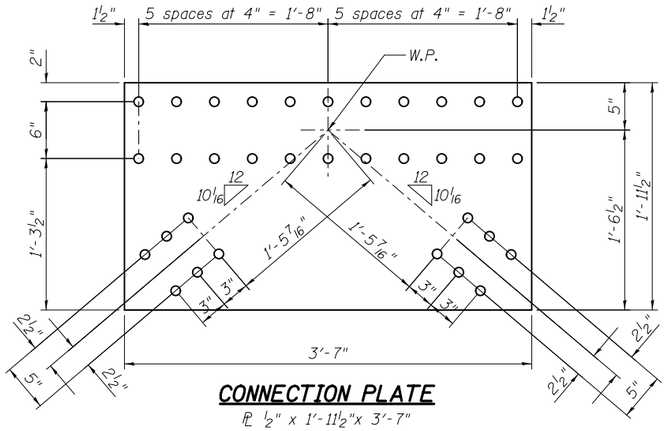
CONNECTION WT 1

WT 10.5 x 73.5 x 1'-0"
(2-required)



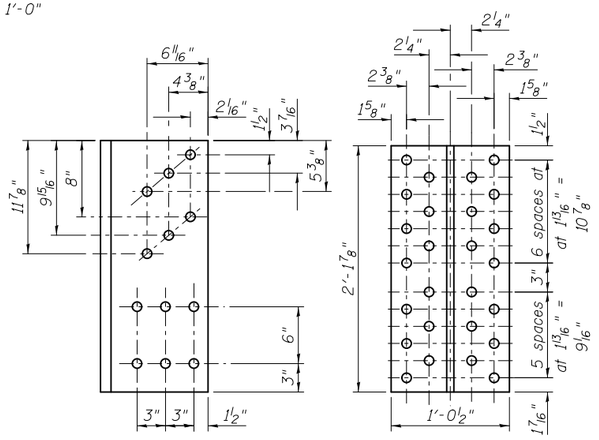
TOP STRUT

WT 7 x 34 x 30'-1⅞"
(1-required)



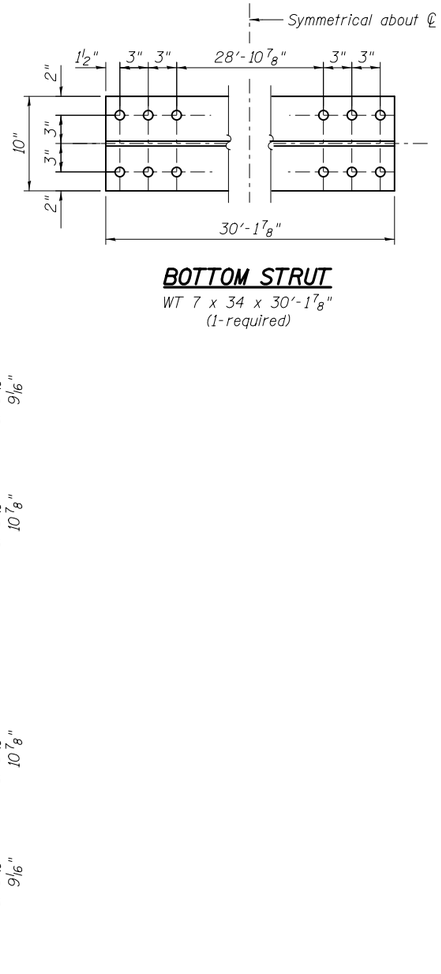
CONNECTION PLATE

℄ ½" x 1'-11½"x 3'-7"
(1-required)



CONNECTION WT 2

WT 10.5 x 73.5 x 2'-1⅞"
(2-required)

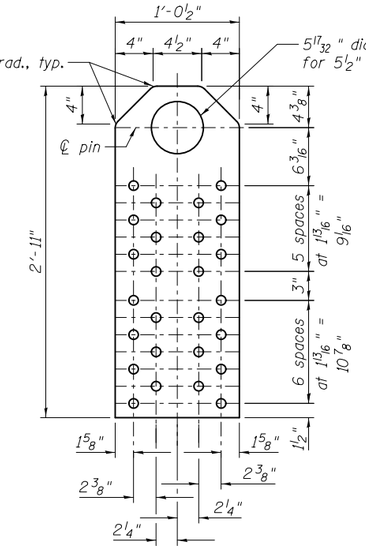


BOTTOM STRUT

WT 7 x 34 x 30'-1⅞"
(1-required)

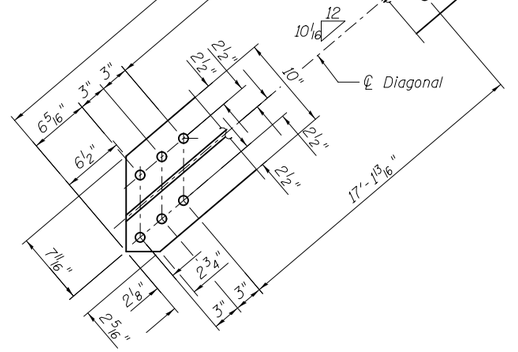
END FRAME VERTICAL

W 12 x 120 x 14'-7 3/16"
(2-required)



PIN PLATE

℄ 2½" x 1'-0½"x 2'-11"
(8-required)



BRACING

WT 7 x 34 x 18'-5 7/16"
(1-required as shown)
(1-required opposite hand)

MODJESKI and MASTERS
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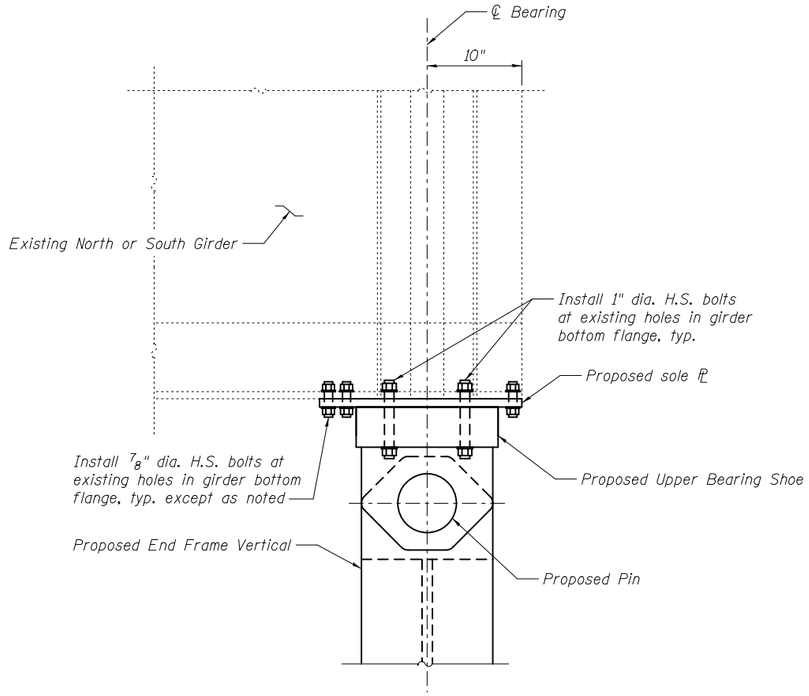
USER NAME =	DESIGNED - APL	REVISED
	CHECKED - JTH	REVISED
PLOT SCALE =	DRAWN - CMM	REVISED
PLOT DATE = 10/05/2015	CHECKED - RLM	REVISED

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

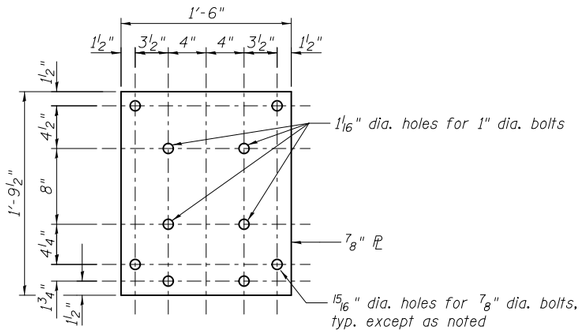
END FRAME DETAILS
S.N. 090-0030 CEDAR STREET BRIDGE OVER ILLINOIS RIVER
SHEET NO. 78 OF 112 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
669	(103B)I-7	PEORIA/TAZEWELL	180	146
		CONTRACT NO. 68A93		
ILLINOIS	FED. AID PROJECT			



UPPER BEARING REPLACEMENT AT SPAN 20 - PIER 19

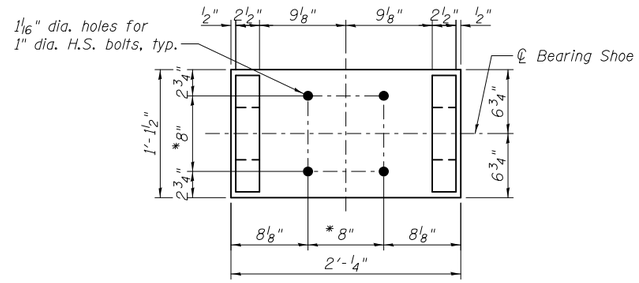
(Looking south)

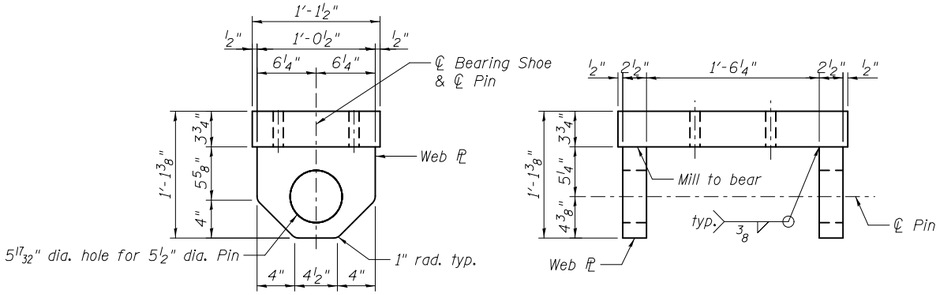


SOLE PLATE

PL 7/8" x 1'-6" x 1'-9 1/2"
(2-required)

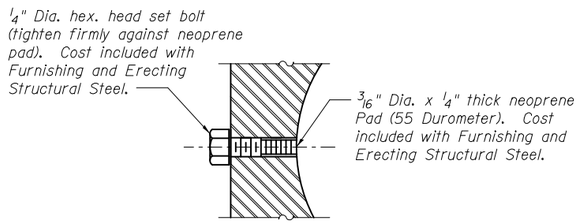
Field verify all sole plate dimensions





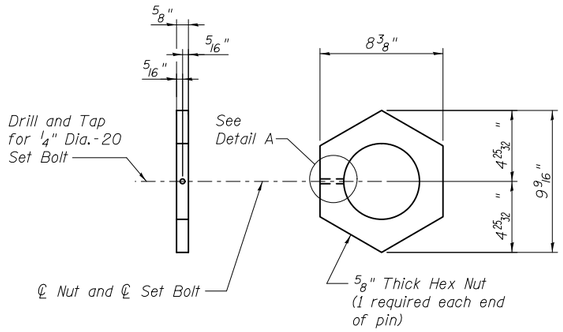
UPPER BEARING SHOE

(2-required)
*Field verify



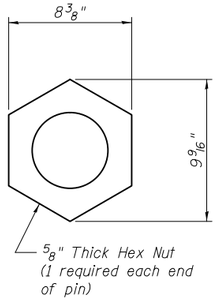
DETAIL A

Set bolts shall conform to the requirements of ASTM A 307 and shall be galvanized according to AASHTO M 232.



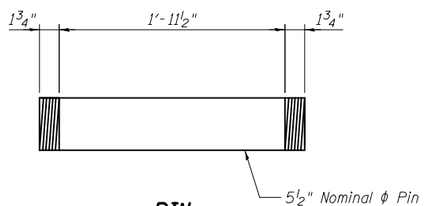
EXTERIOR NUT DETAIL

(4-required)



INTERIOR NUT DETAIL

(4-required)



PIN

(2-required)

Notes:
See Sheet 77 of 112 for Bill of Material and Bearing Reaction Table.
See Sheet 78 for End Frame Details.
See Sheet 80 for Lower Bearing Details.
All steel for bearings shall conform to the requirements of AASHTO M270 Grade 50, unless otherwise noted.
Two 1/8 in. adjusting shims shall be provided for each bearing in addition to all other plates.
Pins shall be ASTM A276, UNS 21800 (Nitronic 60 or equal) (No step at threads) 12 threads per inch. Nuts shall be ASTM A576, Grade 12L14, minimum yield of 36 ksi.

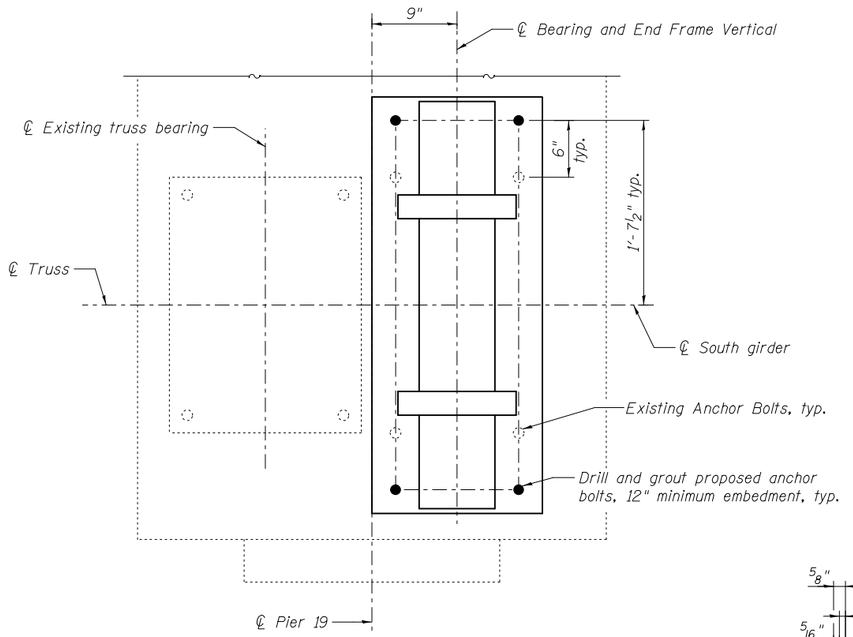
MODJESKI and MASTERS
Experience great bridges.

USER NAME =	DESIGNED - JTH	REVISED
	CHECKED - APL	REVISED
PLOT SCALE =	DRAWN - AEC	REVISED
PLOT DATE = 10/05/2015	CHECKED - RLM	REVISED

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

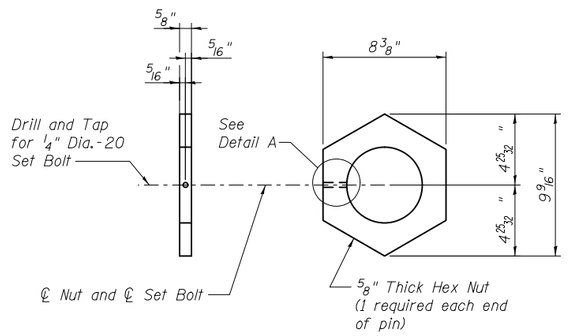
UPPER BEARING DETAILS
S.N. 090-0030 CEDAR STREET BRIDGE OVER ILLINOIS RIVER
SHEET NO. 79 OF 112 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
669	(103B)I-7	PEORIA/TAZEWELL	180	147
			CONTRACT NO. 68A93	
	ILLINOIS	FED. AID PROJECT		



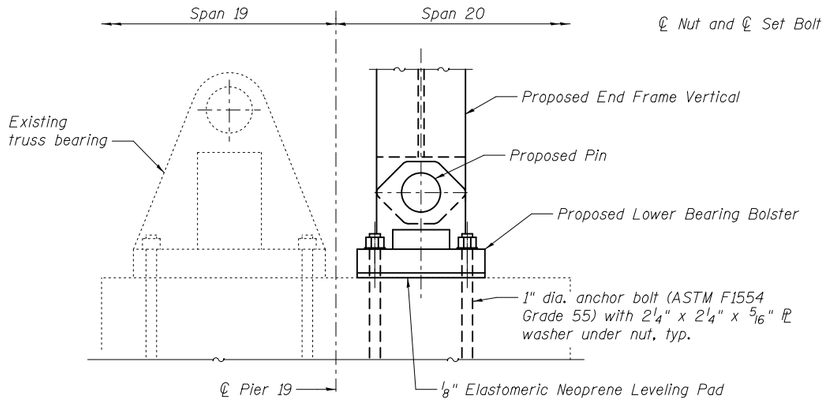
PARTIAL PLAN - SOUTH BEARING

(North Bearing Similar)



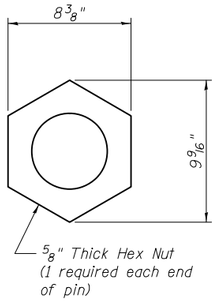
EXTERIOR NUT DETAIL

(4-required)



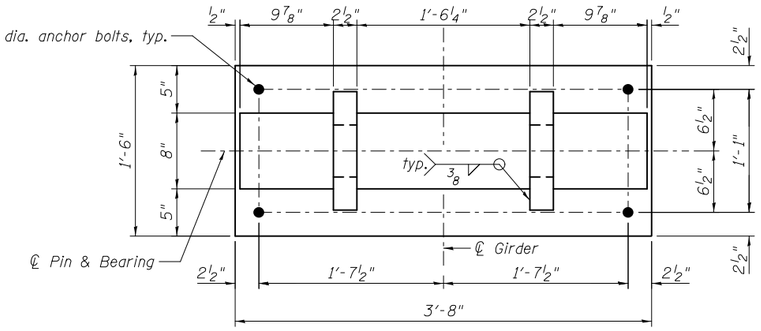
LOWER BEARING REPLACEMENT AT SPAN 20 - PIER 19

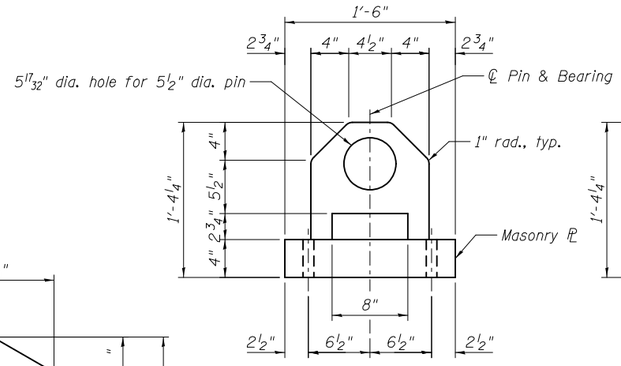
(Looking North)

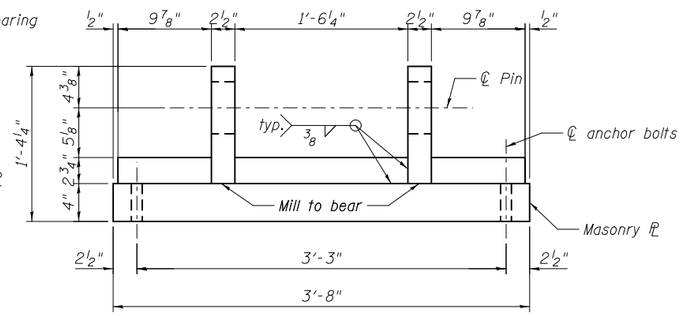


INTERIOR NUT DETAIL

(4-required)



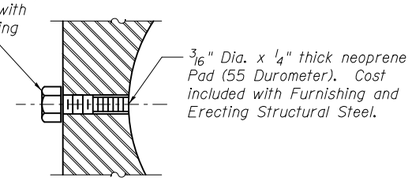




LOWER BEARING BOLSTER

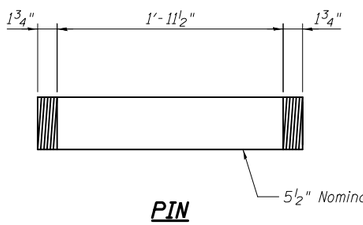
(2-required)

¼" Dia. hex. head set bolt (tighten firmly against neoprene pad). Cost included with Furnishing and Erecting Structural Steel.



DETAIL A

Set bolts shall conform to the requirements of ASTM A 307 and shall be galvanized according to AASHTO M 232.



PIN

(2-required)

Notes:

See Sheet 77 of 112 for Bill of Material and Bearing Reaction Table.

See Sheet 78 of 112 for End Frame Details.

See Sheet 79 of 112 for Upper Bearing Details.

All steel for bearings shall conform to the requirements of AASHTO M270 Grade 50, unless otherwise noted.

Anchor bolts shall be ASTM F1554 all-thread (or an Engineer-approved alternate material) of the grade and diameter specified. The corresponding specified grade of AASHTO M314 anchor bolts may be used in lieu of ASTM F1554. Anchor bolts shall be drilled and set according to Article 521.06 of the Standard Specifications.

Two ⅛ in. adjusting shims shall be provided for each bearing in addition to all other plates.

The anchor bolt size and grade shown constitute a calculated seismic structural fuse. Substitution of higher diameter and/or grade anchor bolts will not be allowed.

The elastomeric neoprene leveling pad shall be in accordance with Article 1052.02(a) of the Standard Specifications. Cost included with Furnishing and Erecting Structural Steel.

Pins shall be ASTM A276, UNS 21800 (Nitronic 60 or equal) (No step at threads) 12 threads per inch. Nuts shall be ASTM A576, Grade 12L14, minimum yield of 36 ksi.

BILL OF MATERIAL

Item	Unit	Total
Anchor Bolts, 1"	Each	8

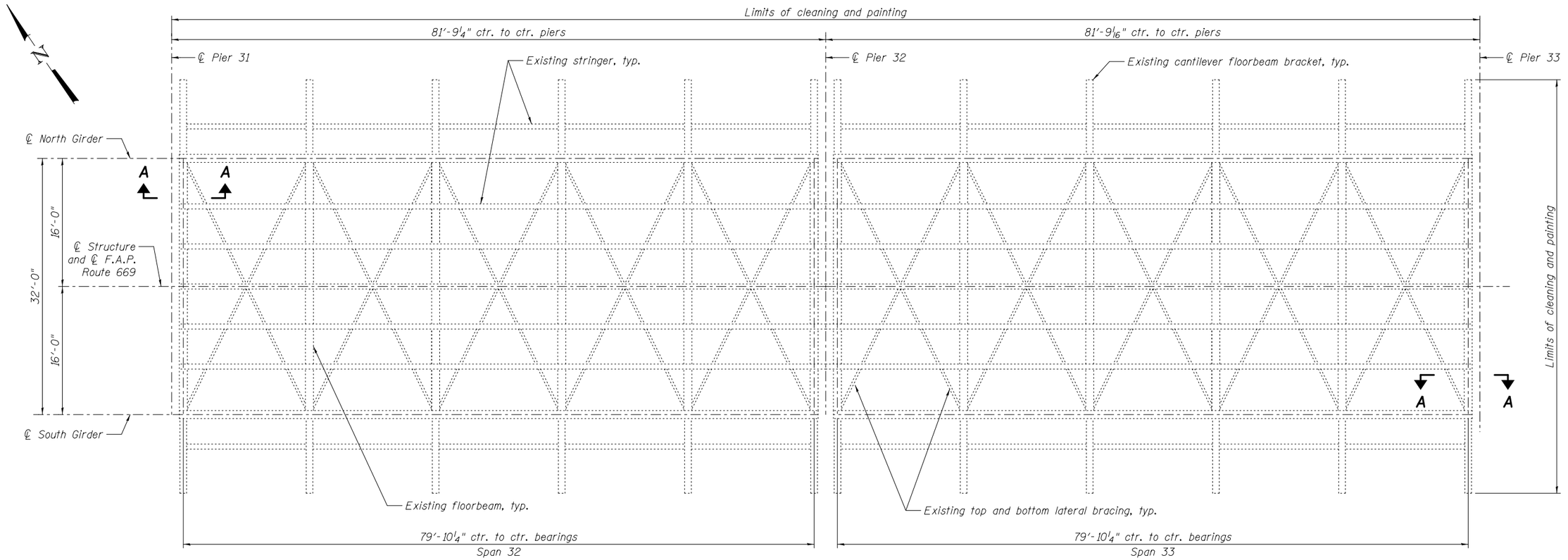
MODJESKI and MASTERS
Experience great bridges.

USER NAME =	DESIGNED - JTH	REVISED
	CHECKED - APL	REVISED
PLOT SCALE =	DRAWN - PRC	REVISED
PLOT DATE = 10/05/2015	CHECKED - RLM	REVISED

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

LOWER BEARING DETAILS
S.N. 090-0030 CEDAR STREET BRIDGE OVER ILLINOIS RIVER
SHEET NO. 80 OF 112 SHEETS

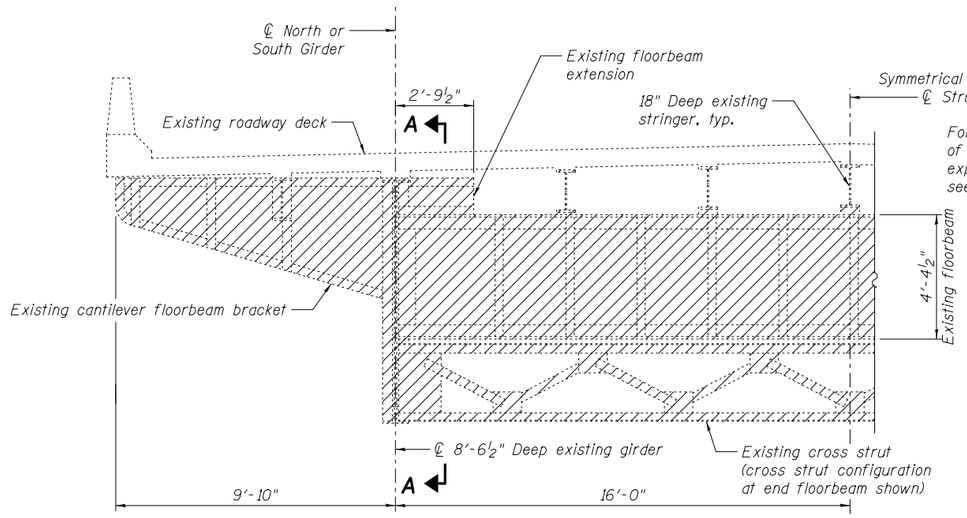
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
669	(103B)I-7	PEORIA/TAZEWELL	180	148
		CONTRACT NO. 68A93		
	ILLINOIS FED. AID PROJECT			



CLEANING AND PAINTING DETAILS AT SPANS 32 AND 33

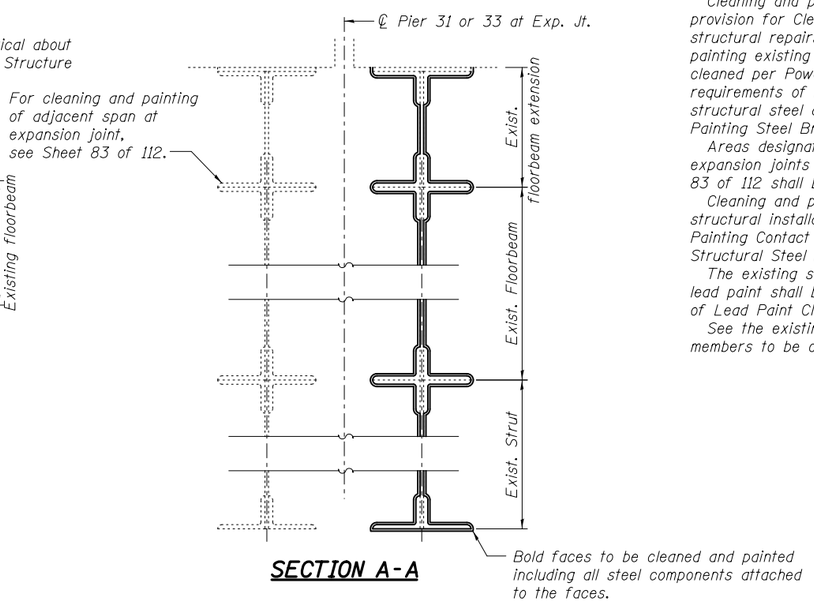
EXISTING FRAMING PLAN

(Roadway deck not shown)



TYPICAL HALF SECTION

Note: All exposed faces of existing steel components below roadway deck to be cleaned and painted within spans 32 and 33.



SECTION A-A

Notes:

Cleaning and painting of the existing structural steel shall be as specified in the special provision for Cleaning and Painting Existing Steel Structures, except at the locations of structural repairs or new structural installations. The designated areas for cleaning and painting existing structural steel at Spans 32 and 33, as shown on this sheet, shall be cleaned per Power Tool Cleaning - Modified SSPC-SP3 and painted according to the requirements of Paint System 2 - PS/EM/U. The cost for cleaning and painting the existing structural steel as shown on this sheet shall be included with the pay item Cleaning and Painting Steel Bridge, No. 1.

Areas designated for cleaning and painting of members within Spans 32 and 33 below the expansion joints at Piers 31 and 33 that overlap cleaning and painting limits shown on Sheet 83 of 112 shall be cleaned and painted per the requirements shown on Sheet 83 of 112.

Cleaning and painting existing structural steel in the areas of structural repairs or new structural installations shall be in accordance with the special provision for Cleaning and Painting Contact Surface Areas of Existing Steel Structures and included in the cost of Structural Steel Repair.

The existing structural steel coating contains lead. Removal and disposal of the existing lead paint shall be in accordance with the special provision for Containment and Disposal of Lead Paint Cleaning Residues.

See the existing structural plans for more information about the size and geometry of members to be cleaned and painted.

LEGEND

Limits of cleaning and painting steel members

BILL OF MATERIAL

Item	Unit	Total
Cleaning and Painting Steel Bridge No. 1	L Sum	1
Containment and Disposal of Lead Paint Cleaning Residues No. 1	L Sum	1

MODJESKI and MASTERS
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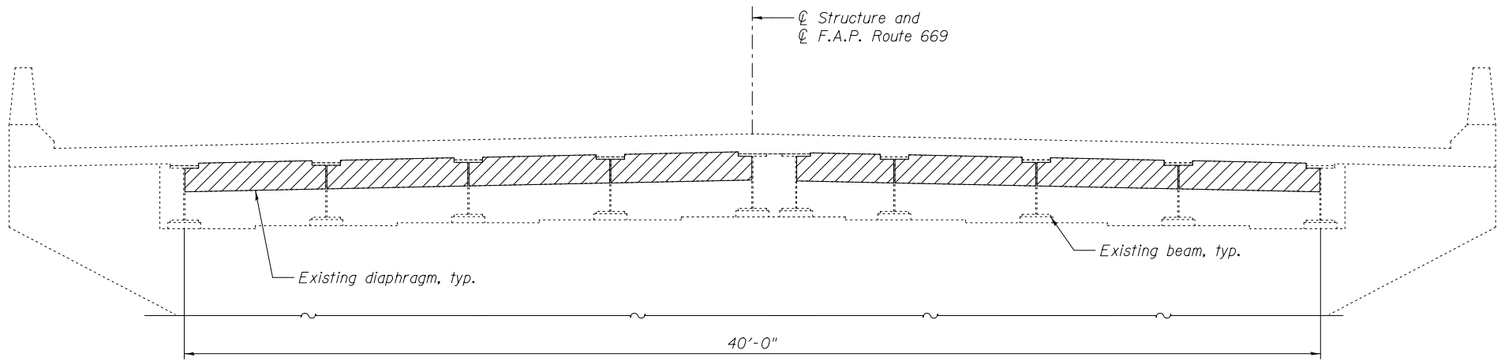
USER NAME =	DESIGNED - RLM	REVISED
	CHECKED - ZJB	REVISED
PLOT SCALE =	DRAWN - PRC	REVISED
PLOT DATE = 10/05/2015	CHECKED - RLM	REVISED

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

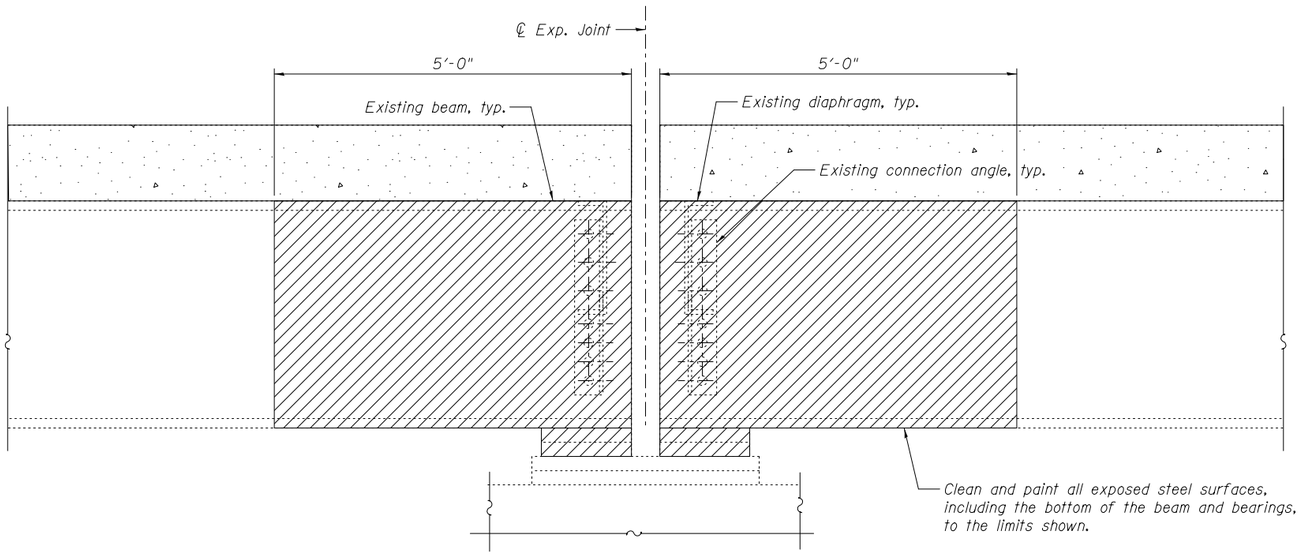
CLEANING AND PAINTING DETAILS - 1
S.N. 090-0030 CEDAR STREET BRIDGE OVER ILLINOIS RIVER
SHEET NO. 81 OF 112 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
669	(103B)I-7	PEORIA/TAZEWELL	180	149
		CONTRACT NO. 68A93		
	ILLINOIS FED. AID PROJECT			



ELEVATION

(Looking East)



TYPICAL SECTION AT PIERS 2, 4 AND 5

West Abutment and West Side of Joint at Pier 7 similar

See Sheet 83 of 112 for cleaning and painting details for east side of joint at Pier 7.

LEGEND

Limits of cleaning and painting steel members

Notes:

Cleaning and painting of the existing structural steel shall be as specified in the special provision for Cleaning and Painting Existing Steel Structures, except at the locations of structural repairs or new structural installations. The designated areas for cleaning and painting existing structural steel at expansion joints, as shown on this sheet, shall be cleaned per Near White Blast Cleaning SSPC - SP10 and painted according to the requirements of Paint System 1 - OZ/E/U. The cost for cleaning and painting the existing structural steel as shown on this sheet shall be included with the pay item Cleaning and Painting Steel Bridge, No. 1.

Cleaning and painting existing structural steel in the areas of structural repairs or new structural installations shall be in accordance with the special provision for Cleaning and Painting Contact Surface Areas of Existing Steel Structures and included in the cost of Structural Steel Repair.

The existing structural steel coating contains lead. Removal and disposal of the existing lead paint shall be in accordance with the special provision for Containment and Disposal of Lead Paint Cleaning Residues.

See the existing structural plans for more information about the size and geometry of members to be cleaned and painted.

See Sheet 81 of 112 for the Bill of Material.

CLEANING AND PAINTING DETAILS AT WEST ABUTMENT, PIERS 2, 4, 5, AND WEST SIDE OF JOINT AT PIER 7

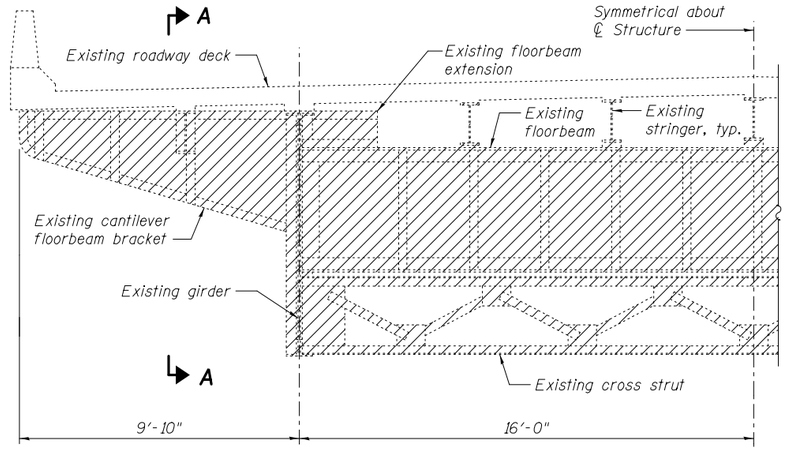
MODJESKI and MASTERS
Experience great bridges.

USER NAME =	DESIGNED - RLM	REVISED
	CHECKED - JMH	REVISED
PLOT SCALE =	DRAWN - AEC	REVISED
PLOT DATE = 10/05/2015	CHECKED - RLM	REVISED

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

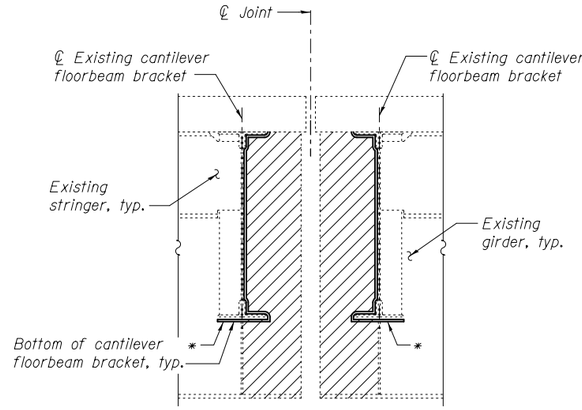
CLEANING AND PAINTING DETAILS – 2
S.N. 090–0030 CEDAR STREET BRIDGE OVER ILLINOIS RIVER
SHEET NO. 82 OF 112 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
669	(103B)I-7	PEORIA/TAZEWELL	180	150
		CONTRACT NO. 68A93		
	ILLINOIS FED. AID PROJECT			



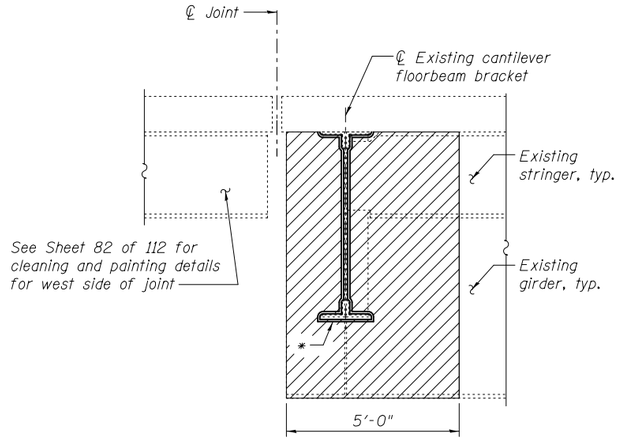
ELEVATION AT GIRDER SPANS

Concrete haunch or steel expansion joint supports not shown for clarity.



SECTION A-A
AT PIERS 8, 9 (WEST SIDE), 19 (EAST SIDE), 20, 22, 24, 26, 27, 29, 31, 33 AND EAST ABUTMENT (WEST SIDE)

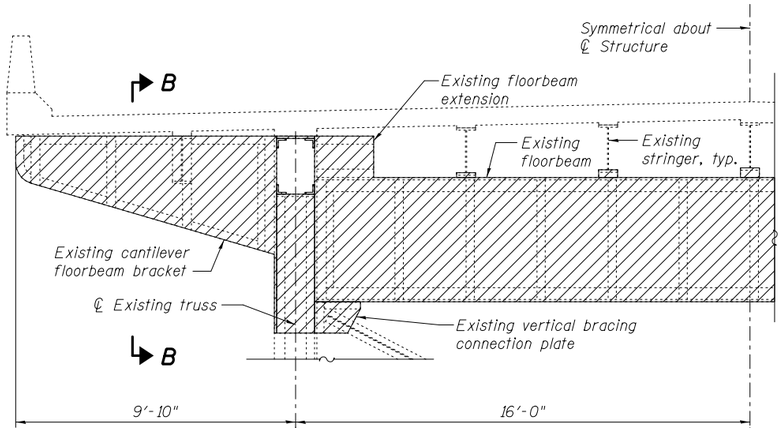
Clean and paint all exposed steel surfaces from the centerline of the joint to the centerline of the adjacent floorbeams/floorbeam cantilever brackets including the entire bottom surface of the floorbeams, floorbeam cantilever brackets and cross struts.



SECTION A-A
AT PIER 7 (EAST SIDE)

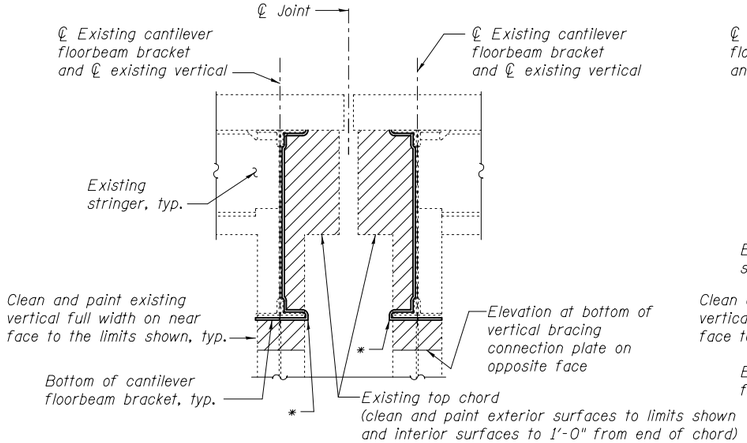
Steel expansion joint support members not shown for clarity.

Clean and paint all exposed steel surfaces including the top and bottom surfaces of the floorbeams and cross struts, the bottom surface of the girders, cantilever floorbeam brackets and stringers, and all additional steel members within the limits shown.



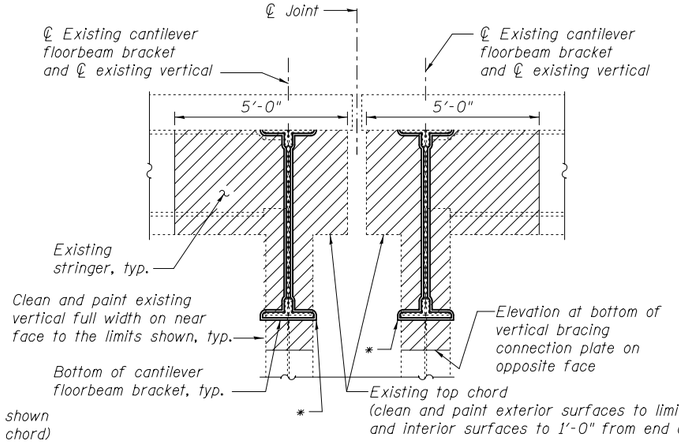
ELEVATION AT TRUSS SPANS

Concrete haunch or steel expansion joint supports not shown for clarity.



SECTION B-B
AT PIERS 9 (EAST SIDE), 10, 11, 12, 15, 16, 17 AND 19 (WEST SIDE)

Clean and paint all exposed steel surfaces from the centerline of the joint to the centerline of the adjacent floorbeams/floorbeam cantilever brackets to the limits shown including the entire bottom surface of the floorbeams and cantilever floorbeam brackets.



SECTION B-B
AT PIER 18 (SHOWN)
MIDSPAN 14 (SIMILAR)

Steel expansion joint support members not shown for clarity.

Clean and paint all exposed steel surfaces including the top and bottom surface of the floorbeams, the bottom surface of the stringers and cantilever floorbeam brackets and all additional steel members within the limits shown.

Notes:

Cleaning and painting of the existing structural steel shall be as specified in the special provision for Cleaning and Painting Existing Steel Structures, except at the locations of structural repairs or new structural installations. The designated areas for cleaning and painting existing structural steel at expansion joints, as shown on this sheet, shall be cleaned per Near White Blast Cleaning SSPC-SP10 and painted according to the requirements of Paint System 1 OZ/E/U. The cost for cleaning and painting the existing structural steel as shown on this sheet shall be included with the pay item Cleaning and Painting Steel Bridge, No. 1.

Cleaning and painting existing structural steel in the areas of structural repairs or new structural installations shall be in accordance with the special provision for Cleaning and Painting Contact Surface Areas of Existing Steel Structures and included in the cost of Structural Steel Repair.

The existing structural steel coating contains lead. Removal and disposal of the existing lead paint shall be in accordance with the special provision for Containment and Disposal of Lead Paint Cleaning Residues.

See the existing structural plans for more information about the size and geometry of members to be cleaned and painted.

See Sheet 81 of 112 for the Bill of Material.

CLEANING AND PAINTING DETAILS
AT PIERS 7 (EAST SIDE), 8, 9, 10, 11, 12, MIDSPAN 14, 15, 16, 17, 18, 19, 20, 22, 24, 26, 27, 29, 31, 33 AND EAST ABUTMENT (WEST SIDE)

* *Bold faces to be cleaned and painted.*

LEGEND

Limits of cleaning and painting steel members

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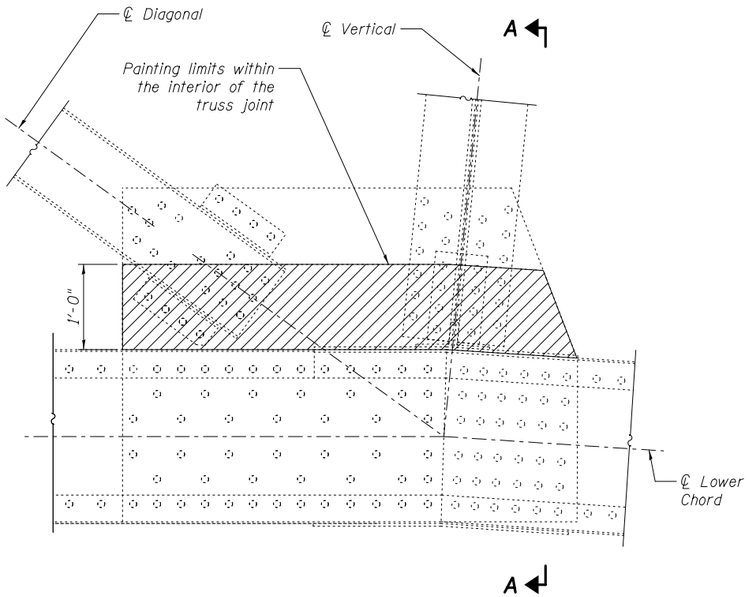
Experience great bridges.

USER NAME =	DESIGNED - RLM	REVISED
	CHECKED - APL	REVISED
PLOT SCALE =	DRAWN - AEC	REVISED
PLOT DATE = 10/05/2015	CHECKED - RLM	REVISED

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

CLEANING AND PAINTING DETAILS – 3
S.N. 090-0030 CEDAR STREET BRIDGE OVER ILLINOIS RIVER
SHEET NO. 83 OF 112 SHEETS

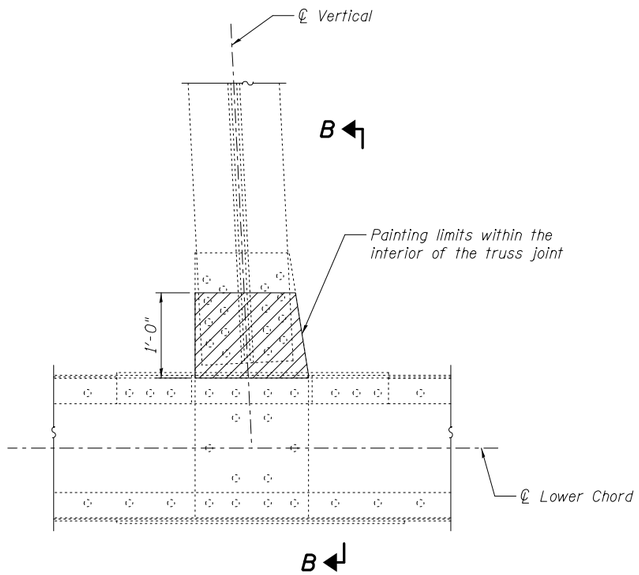
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
669	(103B)I-7	PEORIA/TAZEWELL	180	151
		CONTRACT NO. 68A93		
		ILLINOIS	FED. AID PROJECT	



ELEVATION AT SECTION THRU TRUSS JOINT

TYPE I PAINTING LOCATIONS

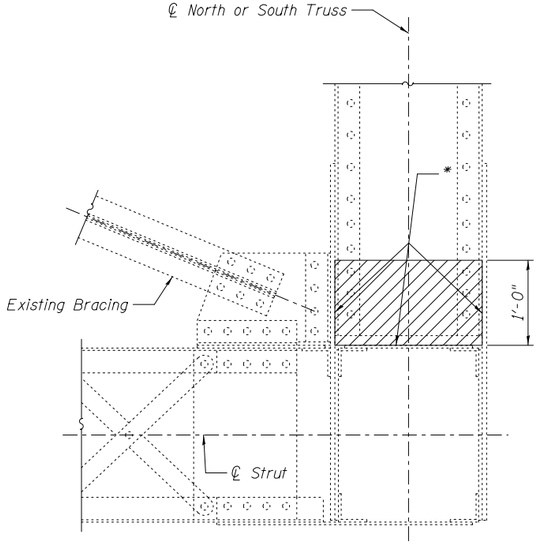
Span	Joint	Truss
10	L8	North
10	L8	South
11	L0	North
11	L0	South
11	L8	South
12	L0	South
12	L8	South
13	L16	North
13	L16	South
14	L5	North
14	L4	North
14	L3	North
14	L3	South
14	L2	North
14	L1	North
14	L1	South
14	L0	North
14	L0	South
14	L0′	North
14	L0′	South
14	L1′	North
14	L1′	South
14	L2′	North
14	L2′	South
14	L3′	North
14	L3′	South
14	L4′	North
14	L4′	South
14	L5′	North
14	L5′	South
14	L6′	North
15	L16′	North
15	L16′	South
16	L0	North
16	L8	North
16	L8	South
17	L0	North
17	L0	South
17	L8	North
17	L8	South
18	L0	North
18	L0	South
18	L8	North
18	L8	South
19	L0	North
19	L0	South
19	L8	North
19	L8	South



ELEVATION AT SECTION THRU TRUSS JOINT

TYPE II PAINTING LOCATIONS

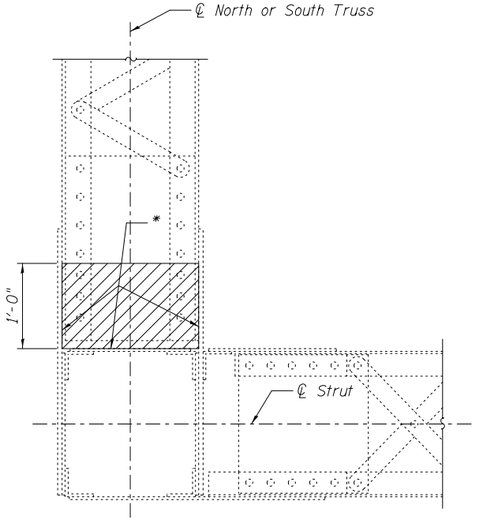
Span	Joint	Truss
10	L7	South
11	L1	South
11	L3	North
11	L3	South
11	L5	North
11	L7	South
12	L3	South
12	L5	South
12	L7	North
12	L7	South
13	L15	North
13	L15	South
13	L13	North
13	L13	South
13	L11	North
13	L11	South
13	L9	North
13	L9	South
15	L9′	North
15	L9′	South
15	L11′	South
15	L13′	North
15	L13′	South
15	L15′	North
15	L15′	South
16	L1	North
16	L3	North
16	L3	South
16	L5	North
16	L7	South
17	L7	South
18	L1	North
18	L1	South
18	L3	South



SECTION A-A

DECK TRUSS JOINT CLEANING AND PAINTING DETAILS TYPE I

*Clean and paint the top surface of the lower chord and all exposed steel surfaces within the interior of the truss joint to the limits shown.



SECTION B-B

DECK TRUSS JOINT CLEANING AND PAINTING DETAILS TYPE II

LEGEND

Limits of cleaning and painting steel members

Notes:

Cleaning and painting of the existing structural steel shall be as specified in the special provision for Cleaning and Painting Existing Steel Structures, except at the locations of structural repairs or new structural installations. The designated areas for cleaning and painting existing structural steel at the interior faces of truss joints, as shown on this sheet, shall be cleaned per Near White Blast Cleaning SSPC-SP10 and painted according to the requirements of Paint System 1 - OZ/E/U. The cost for cleaning and painting the existing structural steel as shown on this sheet shall be included with the pay item Cleaning and Painting Steel Bridge, No. 1.

Cleaning and painting existing structural steel in the areas of structural repairs or new structural installations shall be in accordance with the special provision for Cleaning and Painting Contact Surface Areas of Existing Steel Structures and included in the cost of Structural Steel Repair.

The existing structural steel coating contains lead. Removal and disposal of the existing lead paint shall be in accordance with the special provision for Containment and Disposal of Lead Paint Cleaning Residues.

See the existing structural plans for more information about the size and geometry of members to be cleaned and painted.

See Sheet 81 of 112 for the Bill of Material.

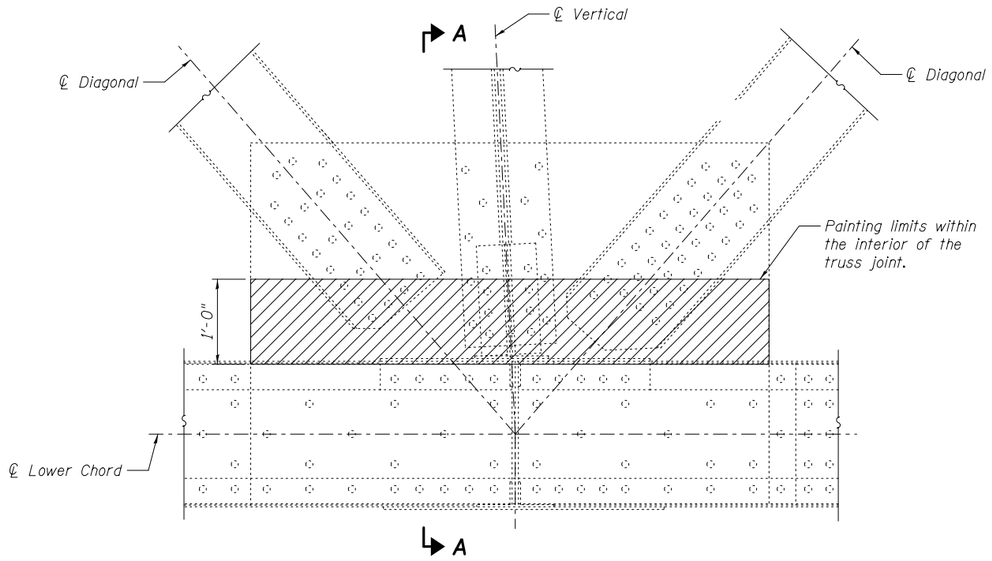
MODJESKI and MASTERS
Experience great bridges.

USER NAME =	DESIGNED - RLM	REVISED
	CHECKED - JMH	REVISED
PLOT SCALE =	DRAWN - AEC	REVISED
PLOT DATE = 10/05/2015	CHECKED - RLM	REVISED

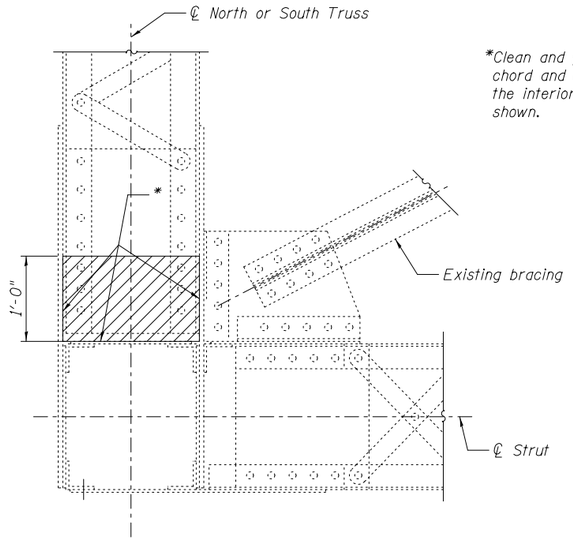
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

CLEANING AND PAINTING DETAILS – 4
S.N. 090–0030 CEDAR STREET BRIDGE OVER ILLINOIS RIVER
SHEET NO. 84 OF 112 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
669	(103B)I-7	PEORIA/TAZEWELL	180	152
			CONTRACT NO. 68A93	
		ILLINOIS	FED. AID PROJECT	



ELEVATION AT SECTION THRU TRUSS JOINT



*Clean and paint the top surface of the lower chord and all exposed steel surfaces within the interior of the truss joint to the limits shown.

SECTION A-A

DECK TRUSS JOINT CLEANING AND PAINTING DETAILS TYPE III

TYPE III PAINTING LOCATIONS

Span	Joint	Truss
10	L2	North
10	L2	South
10	L4	North
10	L4	South
10	L6	South
11	L2	North
11	L2	South
11	L4	North
11	L4	South
11	L6	North
11	L6	South
12	L2	North
12	L2	South
12	L4	North
12	L4	South
12	L6	North
12	L6	South
13	L14	North
13	L14	South
13	L12	North
13	L12	South
13	L10	North
13	L10	South
13	L8	North
13-14	L7	South
15	L8'	South
15	L10'	North
15	L12'	North
15	L12'	South
15	L14'	North
15	L14'	South
16	L2	North
16	L2	South
16	L4	North
16	L4	South
16	L6	North
16	L6	South
17	L2	North
17	L2	South
17	L4	North
17	L4	South
17	L6	North
17	L6	South
18	L2	North
18	L4	South
18	L6	North
19	L2	North
19	L2	South
19	L4	North
19	L6	North

LEGEND

Limits of cleaning and painting steel members

Notes:

Cleaning and painting of the existing structural steel shall be as specified in the special provision for Cleaning and Painting Existing Steel Structures, except at the locations of structural repairs or new structural installations. The designated areas for cleaning and painting existing structural steel at the interior faces of truss joints, as shown on this sheet, shall be cleaned per Near White Blast Cleaning SSPC-SP10 and painted according to the requirements of Paint System 1 - OZ/E/U. The cost for cleaning and painting the existing structural steel as shown on this sheet shall be included with the pay item Cleaning and Painting Steel Bridge, No. 1.

Cleaning and painting existing structural steel in the areas of structural repairs or new structural installations shall be in accordance with the special provision for Cleaning and Painting Contact Surface Areas of Existing Steel Structures and included in the cost of Structural Steel Repair.

The existing structural steel coating contains lead. Removal and disposal of the existing lead paint shall be in accordance with the special provision for Containment and Disposal of Lead Paint Cleaning Residues.

See the existing structural plans for more information about the size and geometry of members to be cleaned and painted.

See Sheet 81 of 112 for the Bill of Material.

MODJESKI and MASTERS
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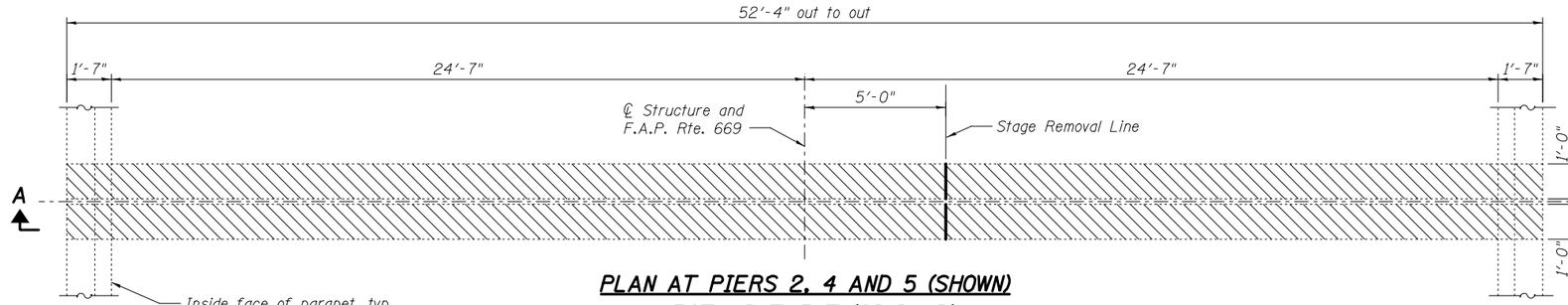
USER NAME =	DESIGNED - RLM	REVISED
	CHECKED - JMH	REVISED
PLOT SCALE =	DRAWN - AEC	REVISED
PLOT DATE = 10/05/2015	CHECKED - RLM	REVISED

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

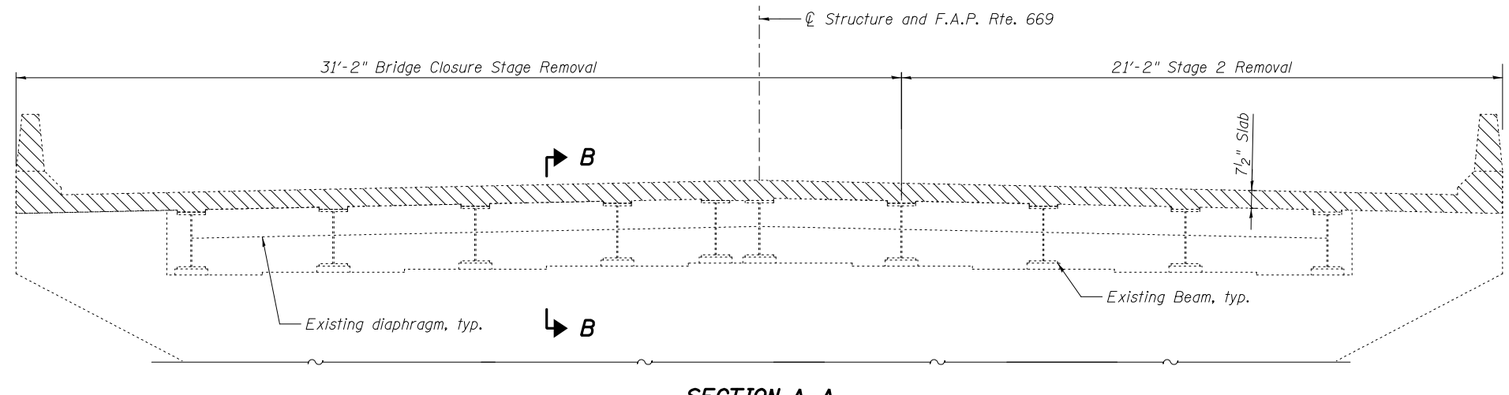
CLEANING AND PAINTING DETAILS – 5
S.N. 090–0030 CEDAR STREET BRIDGE OVER ILLINOIS RIVER
SHEET NO. 85 OF 112 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
669	(103B)I-7	PEORIA/TAZEWELL	180	153
			CONTRACT NO. 68A93	
		ILLINOIS	FED. AID PROJECT	



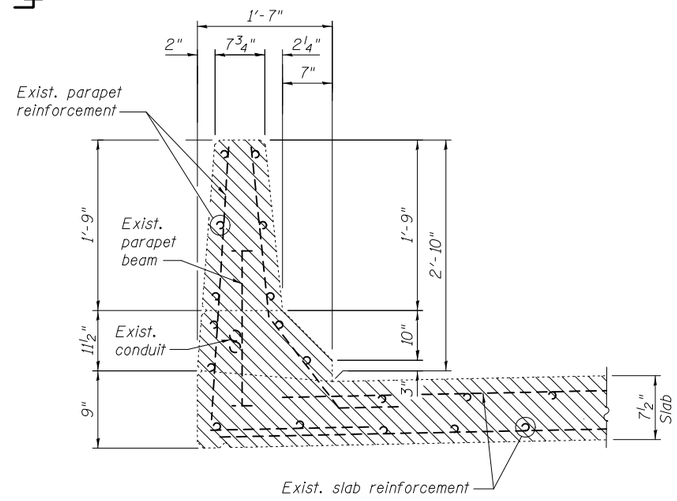
PLAN AT PIERS 2, 4 AND 5 (SHOWN)
WEST ABUTMENT (SIMILAR)

(Concrete removal for joint replacement)

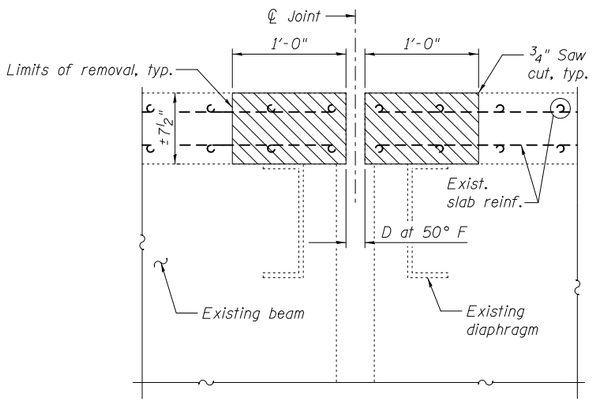


SECTION A-A

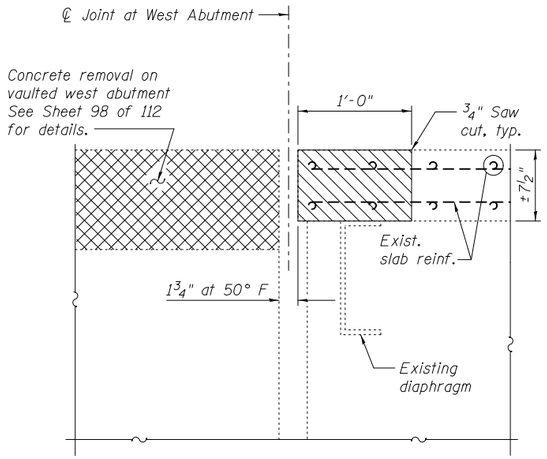
(Looking West)



SECTION THRU PARAPET AT JOINT



SECTION B-B
AT PIERS 2, 4, AND 5



SECTION B-B
AT WEST ABUTMENT

LOCATION	D
Pier 4	1¾"
Piers 2 and 5	2¾"

Notes:

Hatched area indicates concrete removal for joint replacement.

Existing slab and parapet reinforcement within the concrete removal area that are shown to remain in place and be incorporated into the new construction shall be cleaned and reused. See Sheet 87 of 112. Cost included with Concrete Removal.

Existing reinforcement identified for reuse that is damaged during concrete removal operations shall be repaired or replaced using an approved bar splicer or anchorage system, in accordance with IDOT Standards Specifications Article 501.03 at the expense of the Contractor.

Existing conduit within parapets shall remain functional throughout construction. Provide temporary support during construction. Cost included with Concrete Removal.

The Contractor shall perform the concrete removal with care to prevent damage to the existing steel members. If the Contractor damages any existing members which are to remain in place, the damaged members shall be repaired in a manner satisfactory to the Engineer at the expense of the Contractor.

BILL OF MATERIAL

ITEM	UNIT	TOTAL
Concrete Removal	Cu. Yd.	10.0

MODJESKI and MASTERS
Experience great bridges.

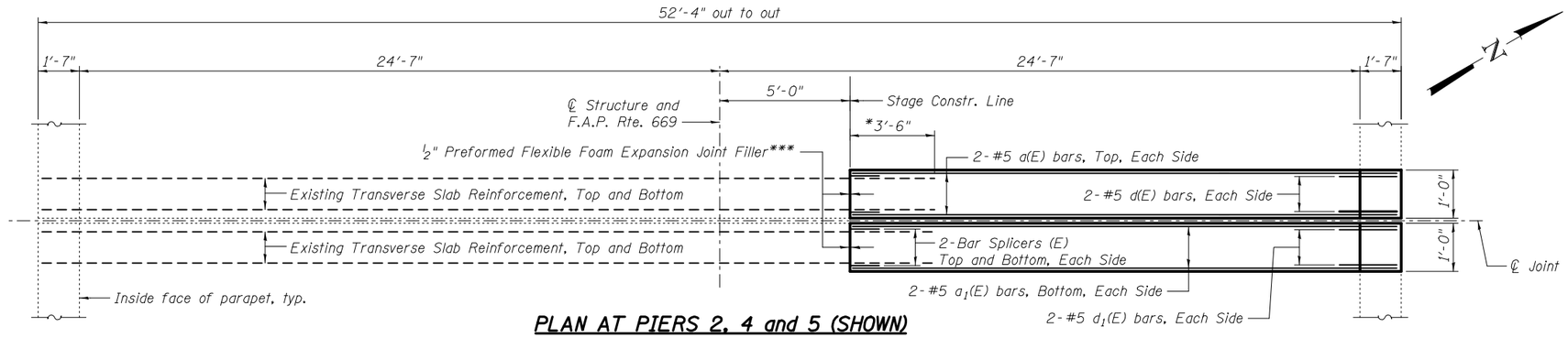
USER NAME =	DESIGNED - APL	REVISED
	CHECKED - RLM	REVISED
PLOT SCALE =	DRAWN - PRC	REVISED
PLOT DATE = 10/05/2015	CHECKED - RLM	REVISED

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

EXPANSION JT REPLACEMENT – CONC REMOVAL – SPANS 1–7
S.N. 090–0030 CEDAR STREET BRIDGE OVER ILLINOIS RIVER

SHEET NO. 86 OF 112 SHEETS

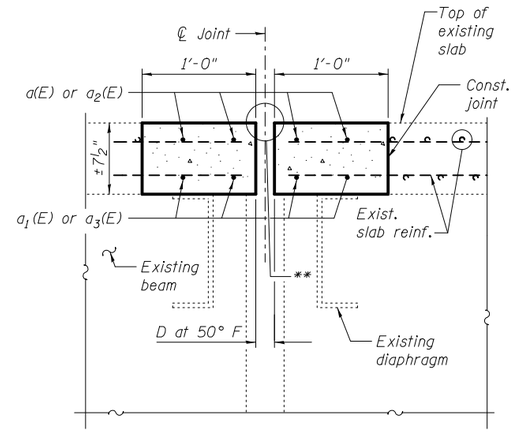
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
669	(103B)I-7	PEORIA/TAZEWELL	180	154
		CONTRACT NO. 68A93		
	ILLINOIS	FED. AID PROJECT		



PLAN AT PIERS 2, 4 and 5 (SHOWN)
WEST ABUTMENT (SIMILAR)
STAGE 2 CONSTRUCTION

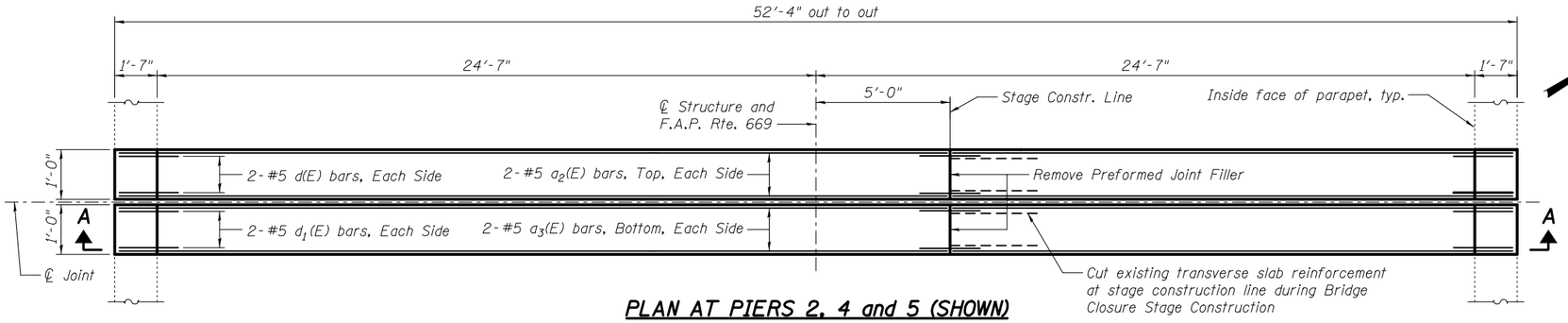
* Existing transverse slab reinforcement shall extend 3'-6" minimum into the new construction.

*** Install preformed flexible foam expansion joint filler at interface between existing and new concrete along Stage Construction Line to prevent damage to new concrete during Bridge Closure concrete removal. Remove preformed joint filler during Bridge Closure concrete removal.

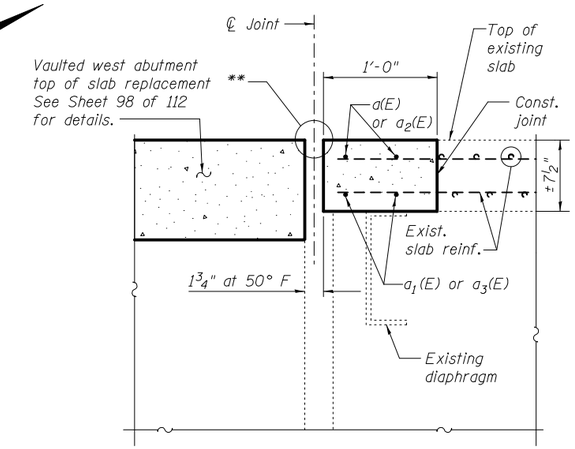


**See Sheet 94 of 112 for preformed joint strip seal details

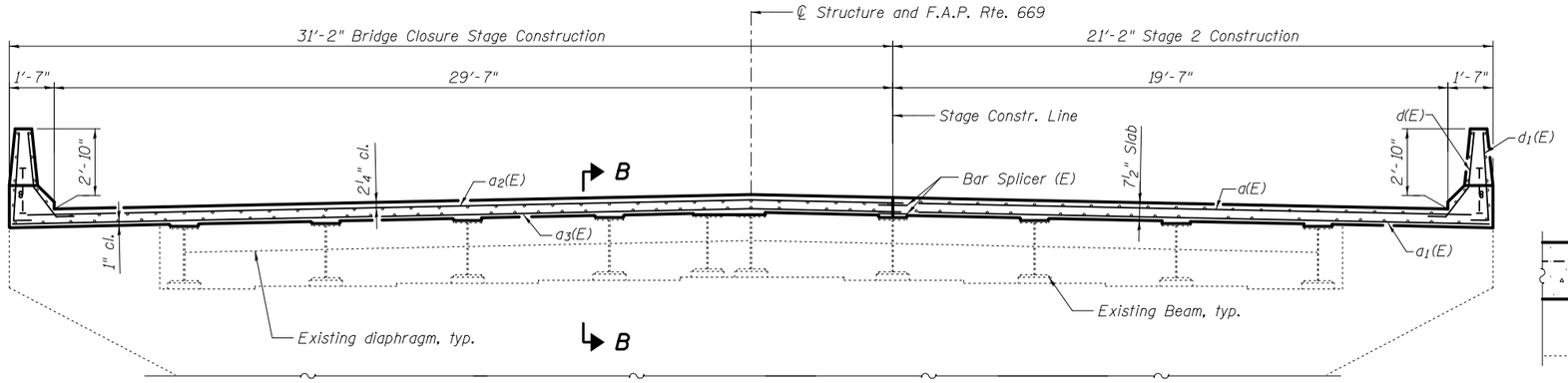
SECTION B-B
AT PIERS 2, 4 AND 5



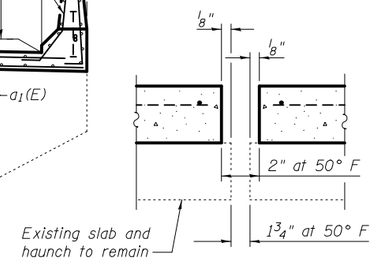
PLAN AT PIERS 2, 4 and 5 (SHOWN)
WEST ABUTMENT (SIMILAR)
BRIDGE CLOSURE STAGE CONSTRUCTION



SECTION B-B
AT WEST ABUTMENT



SECTION A-A
(Looking West)



DETAIL D
(Pier 4 only)

LOCATION	D
Pier 4	2"
Piers 2 and 5	2¾"

Notes:

The preformed joint strip seal shall be continuous across the full width of the structure. After Stage 2 construction, the joint shall remain open until the full length strip seal is installed during the Bridge Closure Stage.

Protective coat shall be applied to the top of slab at repair locations.

Preformed flexible foam expansion joint filler shall be according to Section 1051.09 of the Standard Specifications. Cost included with Concrete Superstructure.

See Sheet 92 of 112 for section thru parapet, bar details and bill of material.

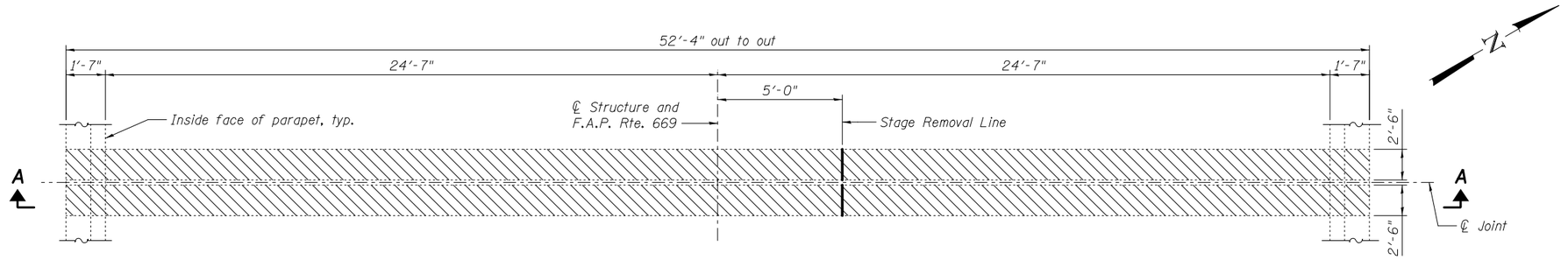
MODJESKI and MASTERS
Experience great bridges.

USER NAME =	DESIGNED - APL	REVISED
	CHECKED - RLM	REVISED
PLOT SCALE =	DRAWN - PRC	REVISED
PLOT DATE = 10/05/2015	CHECKED - RLM	REVISED

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

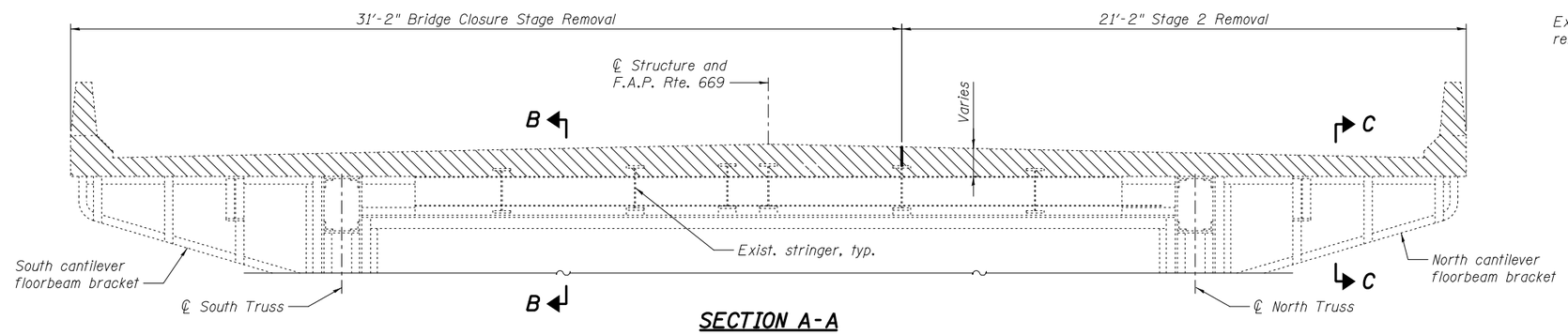
EXPANSION JT REPLACEMENT – CONC DETAILS – SPANS 1–7
S.N. 090–0030 CEDAR STREET BRIDGE OVER ILLINOIS RIVER
SHEET NO. 87 OF 112 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
669	(103B)I-7	PEORIA/TAZEWELL	180	155
		CONTRACT NO. 68A93		
	ILLINOIS FED. AID PROJECT			



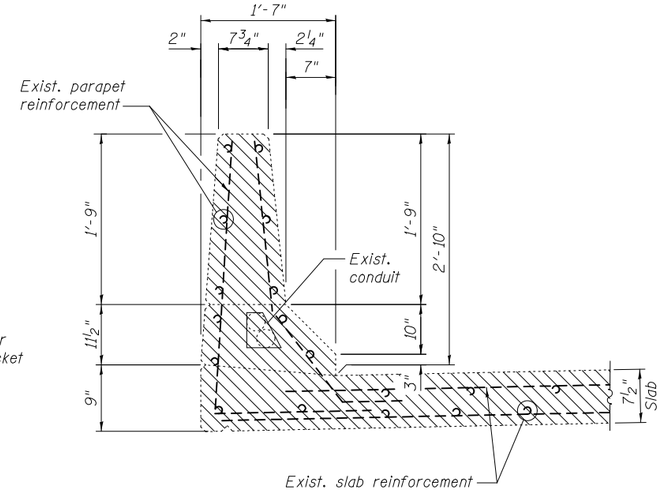
PLAN AT MIDSPAN 14

(Concrete Removal for Joint Replacement)

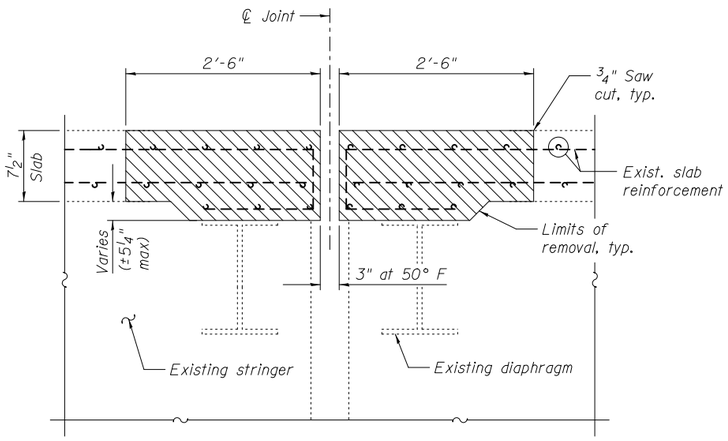


SECTION A-A

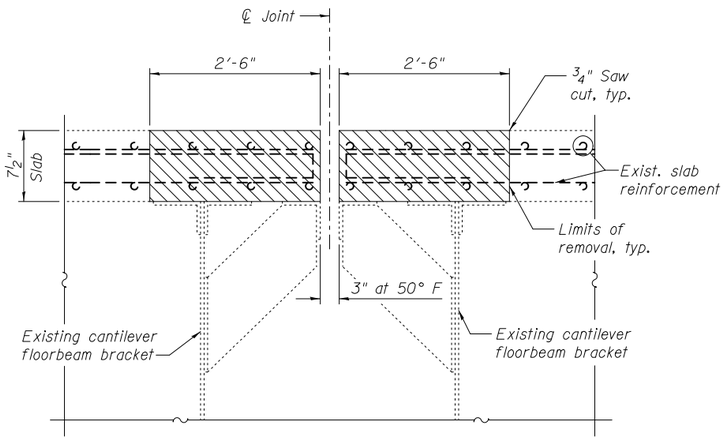
(Looking West)



SECTION THRU PARAPET AT JOINT



SECTION B-B



SECTION C-C

Notes:

Hatched area indicates concrete removal for joint replacement.

Existing slab and parapet reinforcement within the concrete removal area that are shown to remain in place and be incorporated into the new construction shall be cleaned and reused. See Sheet 89 of 112. Cost included with Concrete Removal.

Existing reinforcement identified for reuse that is damaged during concrete removal operations shall be repaired or replaced using an approved bar splicer or anchorage system, in accordance with IDOT Standards Specifications Article 501.03 at the expense of the Contractor.

Existing conduit within parapets shall remain functional throughout construction. Provide temporary support during construction. Cost included with Concrete Removal.

The Contractor shall perform the concrete removal with care to prevent damage to the existing steel members. If the Contractor damages any existing members which are to remain in place, the damaged members shall be repaired in a manner satisfactory to the Engineer at the expense of the Contractor.

BILL OF MATERIAL

ITEM	UNIT	TOTAL
Concrete Removal	Cu. Yd.	8.3

MODJESKI and MASTERS
Experience great bridges.

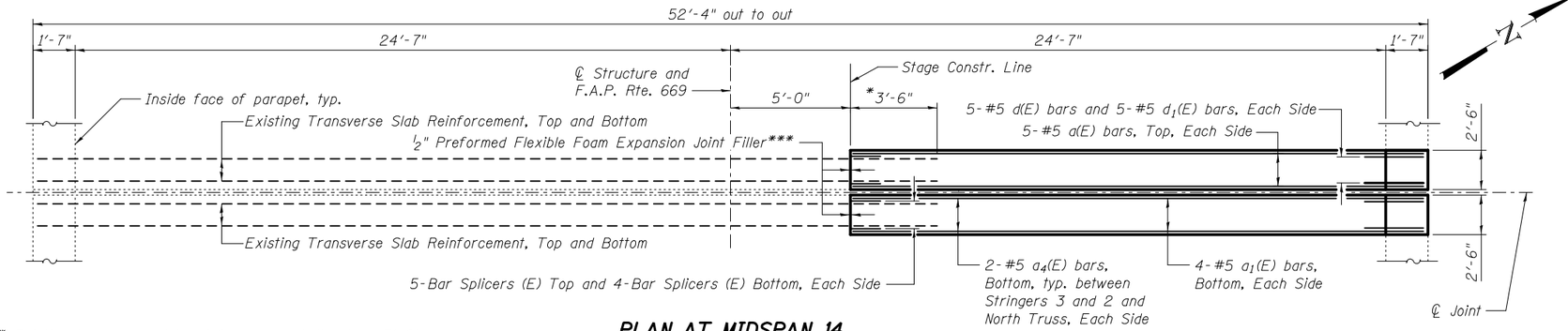
USER NAME =	DESIGNED - APL	REVISED
	CHECKED - RLM	REVISED
PLOT SCALE =	DRAWN - PRC	REVISED
PLOT DATE = 10/05/2015	CHECKED - APL	REVISED

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

EXPANSION JT REPLACEMENT – CONC REMOVAL – MIDSPAN 14
S.N. 090-0030 CEDAR STREET BRIDGE OVER ILLINOIS RIVER

SHEET NO. 88 OF 112 SHEETS

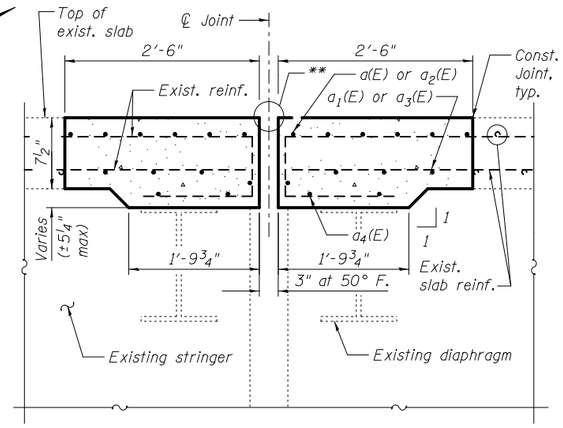
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
669	(103B)I-7	PEORIA/TAZEWELL	180	156
			CONTRACT NO. 68A93	
	ILLINOIS	FED. AID PROJECT		



* Existing transverse slab reinforcement shall extend 3'-6" minimum into the new construction.

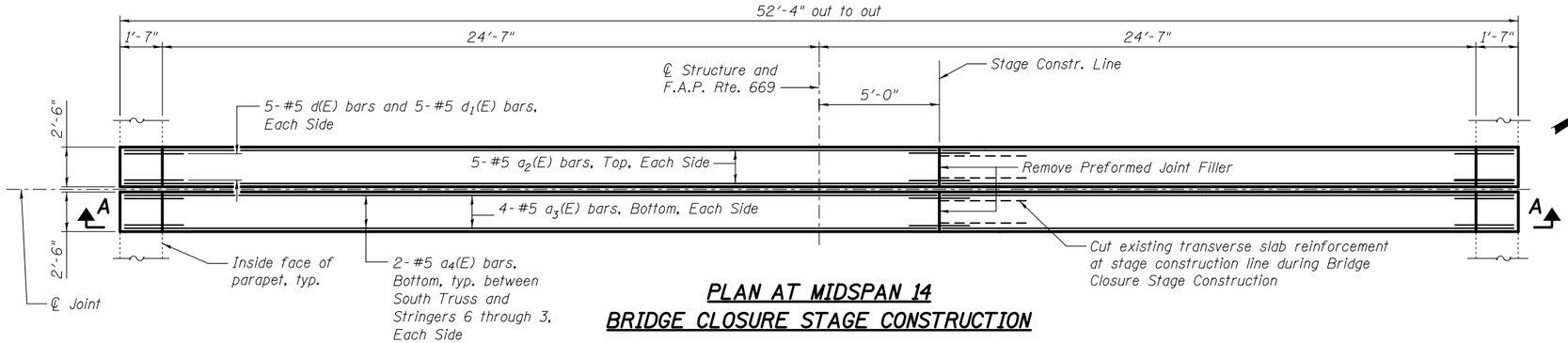
PLAN AT MIDSPAN 14
STAGE 2 CONSTRUCTION

*** Install preformed flexible foam expansion joint filler at interface between existing and new concrete along Stage Construction Line to prevent damage to new concrete during Bridge Closure concrete removal. Remove preformed joint filler during Bridge Closure concrete removal.

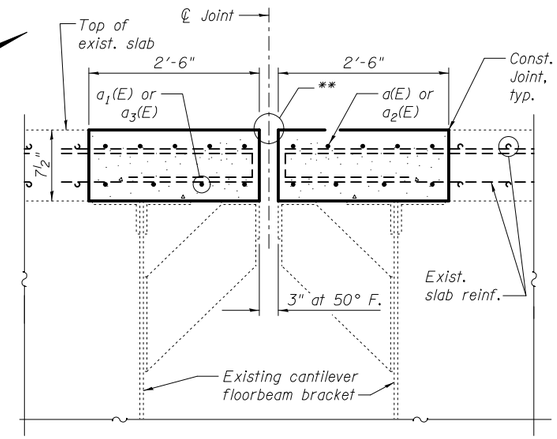


** See Sheet 94 of 112 for preformed joint strip seal details.

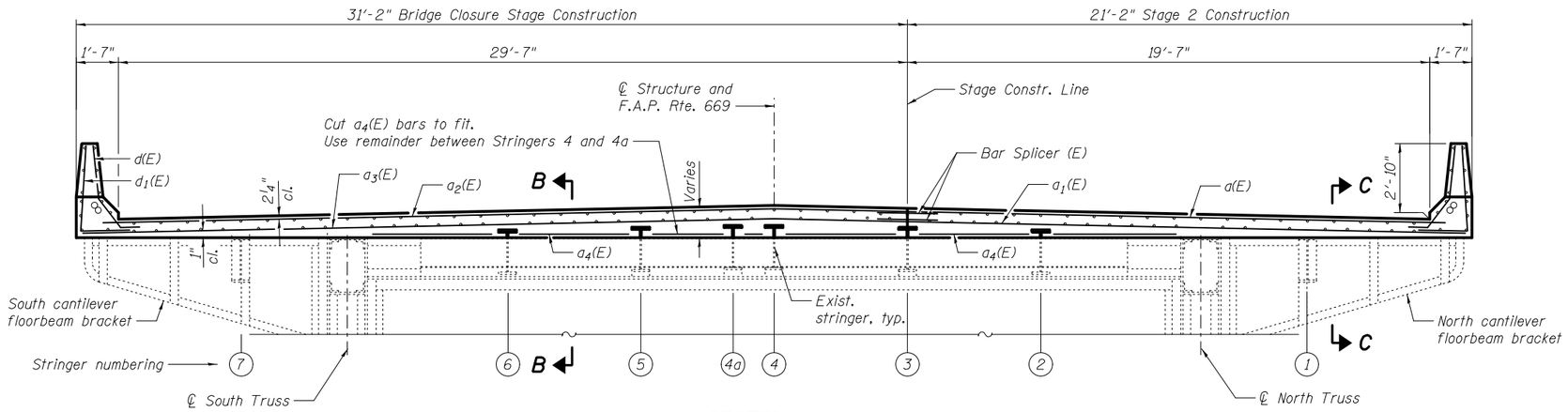
SECTION B-B



PLAN AT MIDSPAN 14
BRIDGE CLOSURE STAGE CONSTRUCTION



SECTION C-C



SECTION A-A
(Looking West)

Notes:

The preformed joint strip seal shall be continuous across the full width of the structure. After Stage 2 construction, the joint shall remain open until the full length strip seal is installed during the Bridge Closure Stage.

Protective coat shall be applied to the top of slab at repair locations.

Preformed flexible foam expansion joint filler shall be according to Section 1051.09 of the Standard Specifications. Cost included with Concrete Superstructure.

See Sheet 92 of 112 for section thru parapet, bar details and bill of material.

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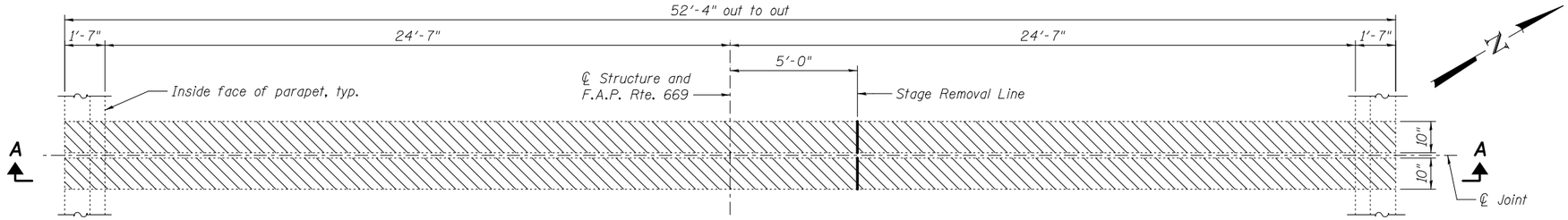
USER NAME =	DESIGNED - APL	REVISED
	CHECKED - RLM	REVISED
PLOT SCALE =	DRAWN - PRC	REVISED
PLOT DATE = 10/05/2015	CHECKED - APL	REVISED

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

EXPANSION JT REPLACEMENT – CONC DETAILS – MIDSPAN 14
S.N. 090-0030 CEDAR STREET BRIDGE OVER ILLINOIS RIVER

SHEET NO. 89 OF 112 SHEETS

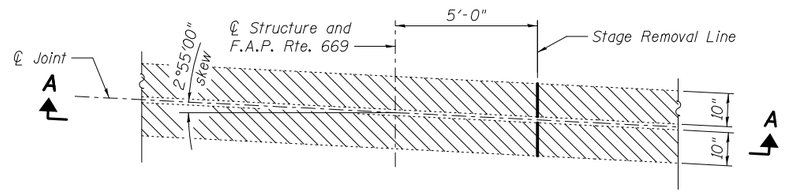
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
669	(103B)I-7	PEORIA/TAZEWELL	180	157
		CONTRACT NO. 68A93		
	ILLINOIS	FED. AID PROJECT		



LOCATION	D
Piers 8 and 9	$1\frac{3}{4}$"
Piers 10, 11, 16, 17, 22, 24, 26, 31 and 33	$2\frac{1}{2}$"
Piers 19, 20 and 27	$2\frac{3}{4}$"
Piers 12 and 15	3"
Pier 29	2"
East Abutment	1"

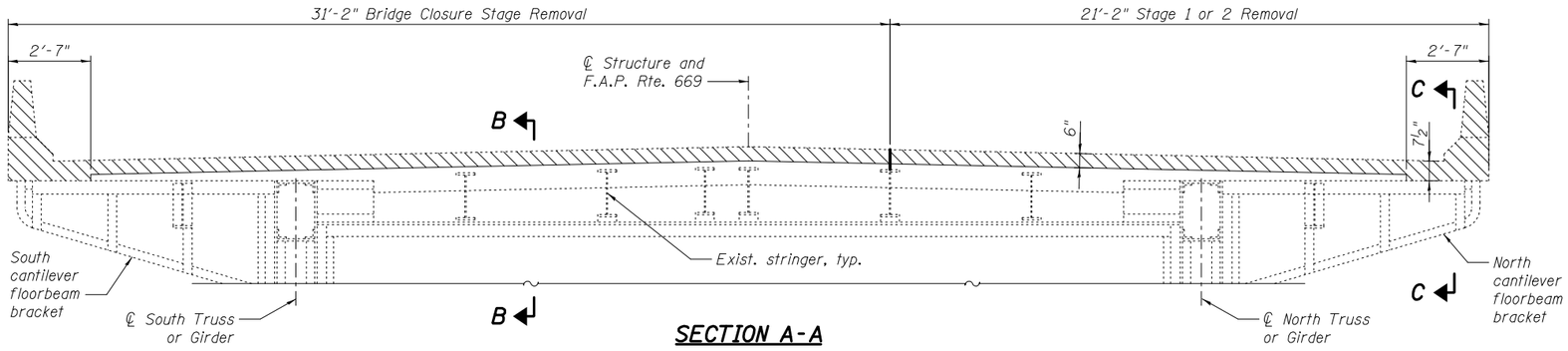
PLAN AT PIERS 9, 10, 11, 12, 15, 16, 17, 19, 20, 22, 24, 26, 27, 29, 31, 33 AND EAST ABUTMENT (SHOWN)
PIER 8 (SIMILAR)

(Concrete Removal for Joint Replacement)



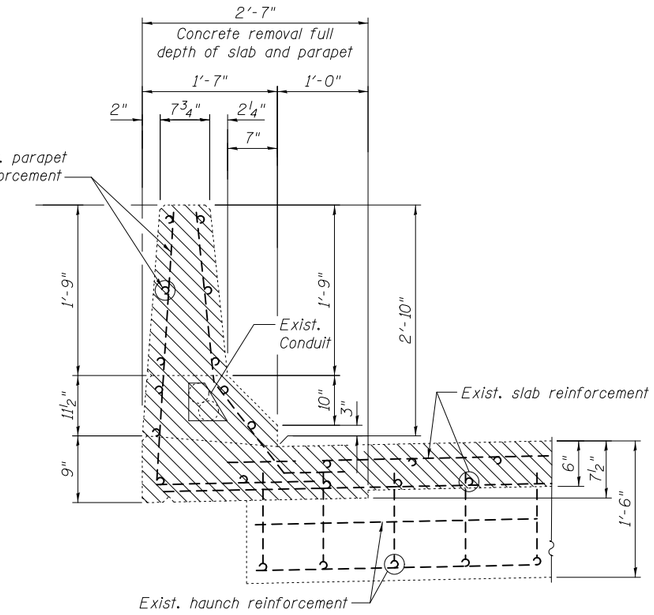
SKEW AT PIER 8

Joints in parapet are not skewed.

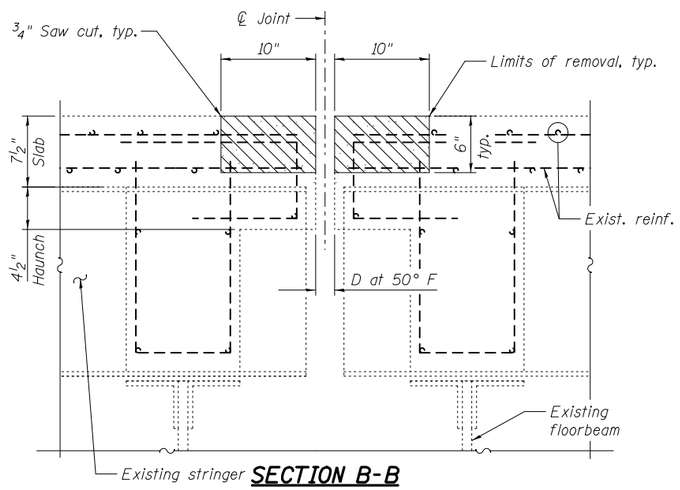


SECTION A-A

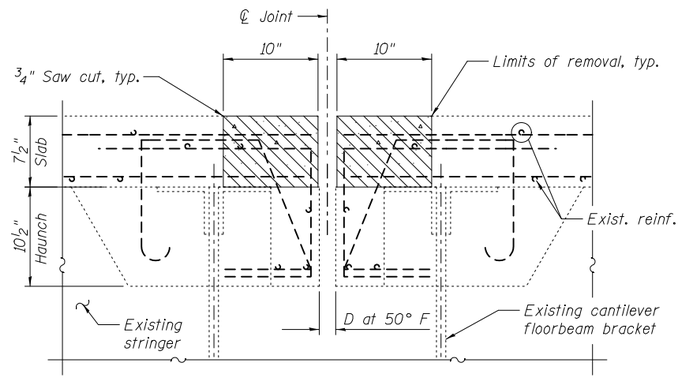
(Looking West)



SECTION THRU PARAPET AT JOINT



SECTION B-B



SECTION C-C

Notes:

Hatched area indicates concrete removal for joint replacement.

Existing slab and parapet reinforcement within the concrete removal area that are shown to remain in place and be incorporated into the new construction shall be cleaned and reused. See Sheet 91 of 112. Cost included with Concrete Removal.

Existing reinforcement identified for reuse that is damaged during concrete removal operations shall be repaired or replaced using an approved bar splicer or anchorage system, in accordance with IDOT Standards Specifications Article 501.03 at the expense of the Contractor.

Existing conduit within parapets shall remain functional throughout construction. Provide temporary support during construction. Cost included with Concrete Removal.

The Contractor shall perform the concrete removal with care to prevent damage to the existing steel members. If the Contractor damages any existing members which are to remain in place, the damaged members shall be repaired in a manner satisfactory to the Engineer at the expense of the Contractor.

BILL OF MATERIAL

ITEM	UNIT	TOTAL
Concrete Removal	Cu. Yd.	36.1

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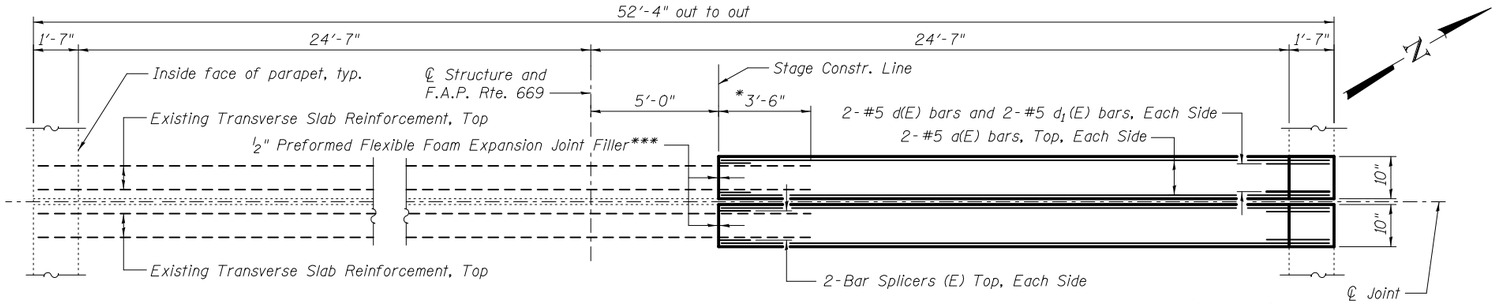
USER NAME =	DESIGNED - APL	REVISED
	CHECKED - RLM	REVISED
PLOT SCALE =	DRAWN - PRC	REVISED
PLOT DATE = 10/05/2015	CHECKED - APL	REVISED

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

EXPANSION JT REPLACEMENT – CONC REMOVAL – SPANS 8–13, 15–34
S.N. 090–0030 CEDAR STREET BRIDGE OVER ILLINOIS RIVER
SHEET NO. 90 OF 112 SHEETS

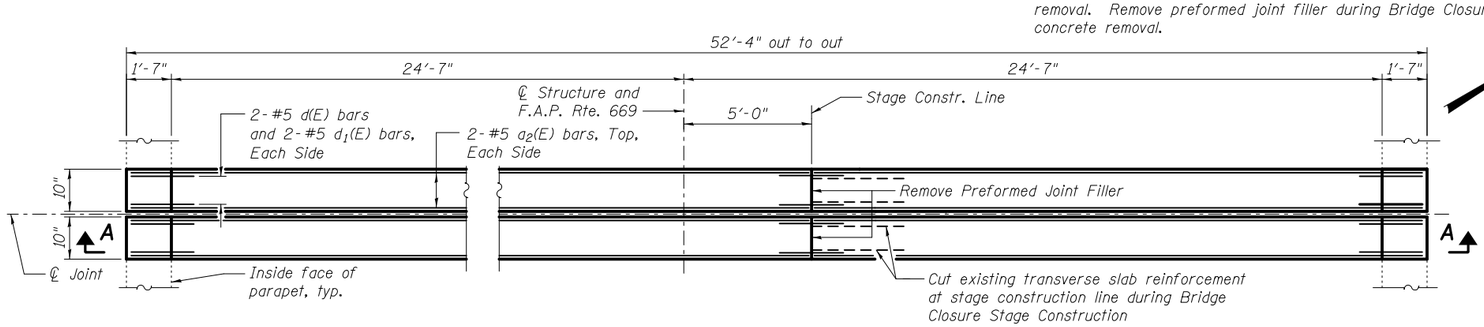
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
669	(103B)I-7	PEORIA/TAZEWELL	180	158
			CONTRACT NO. 68A93	
		ILLINOIS	FED. AID PROJECT	



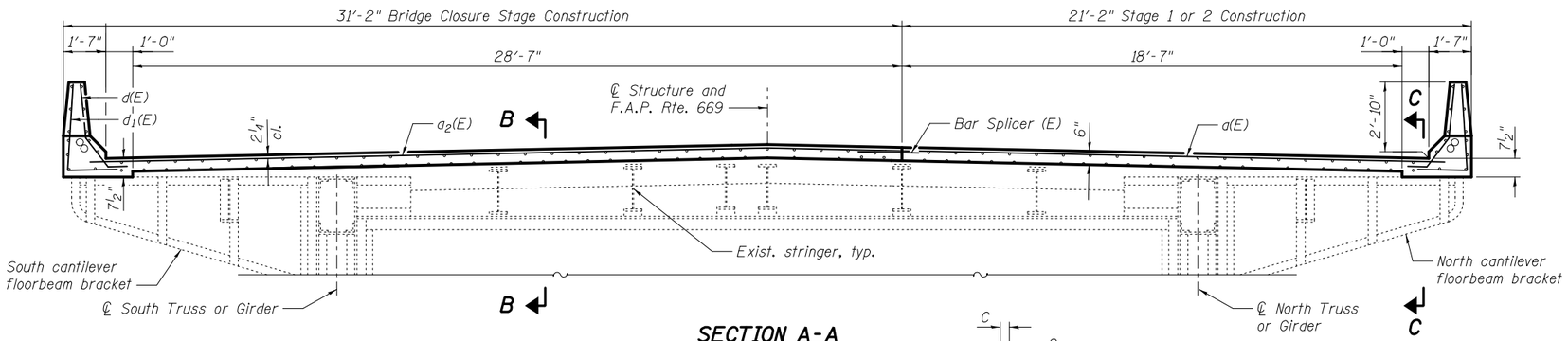
PLAN AT PIERS 9, 10, 11, 12, 15, 16, 17, 19, 20, 22, 24, 26, 27, 29, 31, 33 AND EAST ABUTMENT (SHOWN)
PIER 8 (SIMILAR)
STAGE 1 OR 2 CONSTRUCTION

* Existing transverse slab reinforcement shall extend 3'-6" minimum into the new construction.

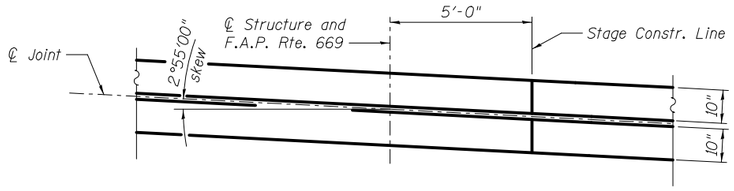
*** Install preformed flexible foam expansion joint filler at interface between existing and new concrete along Stage Construction Line to prevent damage to new concrete during Bridge Closure concrete removal. Remove preformed joint filler during Bridge Closure concrete removal.



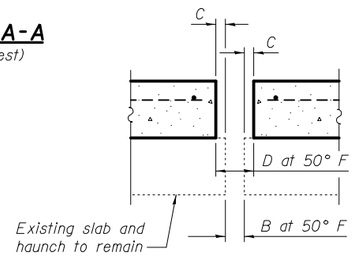
PLAN AT PIERS 9, 10, 11, 12, 15, 16, 17, 19, 20, 22, 24, 26, 27, 29, 31, 33 AND EAST ABUTMENT (SHOWN)
PIER 8 (SIMILAR)
BRIDGE CLOSURE STAGE CONSTRUCTION



SECTION A-A
(Looking West)

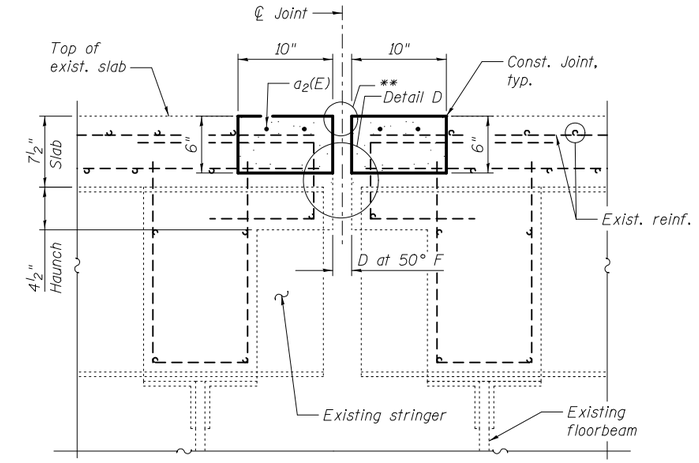


SKEW AT PIER 8
Joints in parapet are not skewed.



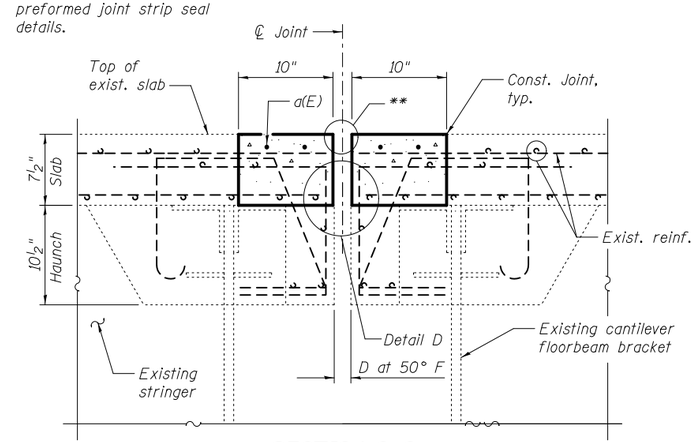
DETAIL D
(Piers 8, 9, 22, 29 and East Abutment only)

LOCATION	B	C
Piers 8 and 9	1¾"	⅛"
Pier 22	2½"	⅛"
Pier 29	2"	⅛"
East Abutment	1"	½"



SECTION B-B

**See Sheet 95 of 112 for preformed joint strip seal details.



SECTION C-C

LOCATION	D
Piers 8 and 9	2"
Piers 10, 11, 16, 17, 24, 26, 31 and 33	2½"
Piers 19, 20, 22 and 27	2¾"
Piers 12 and 15	3"
Pier 29	2¼"
East Abutment	2"

Notes:
The preformed joint strip seal shall be continuous across the full width of the structure. After Stage 1 or 2 construction, the joint shall remain open until the full length strip seal is installed during the Bridge Closure Stage.
Protective coat shall be applied to the top of slab at repair locations.
Preformed flexible foam expansion joint filler shall be according to Section 1051.09 of the Standard Specifications. Cost included with Concrete Superstructure.
See Sheet 92 of 112 for section thru parapet, bar details and bill of material.

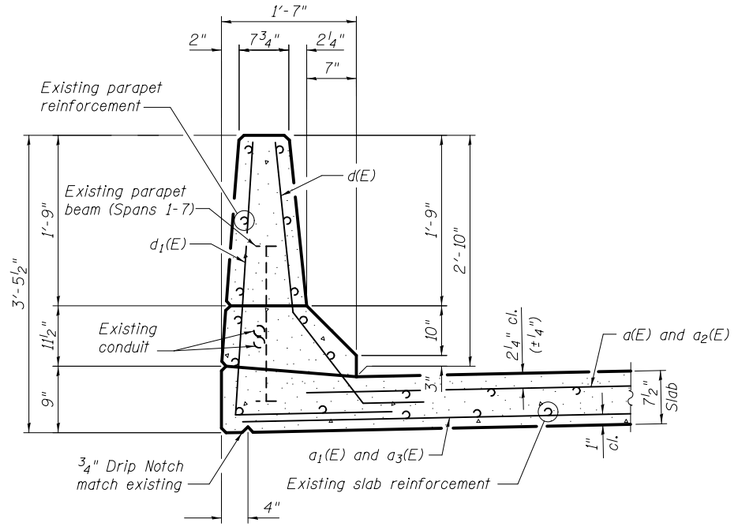
MODJESKI and MASTERS
Experience great bridges.

USER NAME =	DESIGNED - APL	REVISED
	CHECKED - RLM	REVISED
PLOT SCALE =	DRAWN - PRC	REVISED
PLOT DATE = 10/05/2015	CHECKED - APL	REVISED

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

EXPANSION JT REPLACEMENT – CONC DETAILS – SPANS 8–13, 15–34
S.N. 090–0030 CEDAR STREET BRIDGE OVER ILLINOIS RIVER
SHEET NO. 91 OF 112 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
669	(103B)I-7	PEORIA/TAZEWELL	180	159
			CONTRACT NO. 68A93	
		ILLINOIS	FED. AID PROJECT	



TYPICAL SECTION THRU PARAPET
SPANS 1-7 AND MIDSPAN 14

All edges shall have 3/4" chamfer.

BILL OF MATERIAL
SPANS 1-7

(Total for 4 joints)

Bar	No.	Size	Length	Shape
a(E)	14	#5	20'-3"	———
a1(E)	14	#5	20'-9"	———
a2(E)	14	#5	30'-4"	———
a3(E)	14	#5	30'-11"	———
d(E)	28	#5	4'-0"	⌊
d1(E)	28	#5	5'-2"	L
Concrete Superstructure			Cu. Yd.	10.0
Protective Coat			Sq. Yd.	39
Reinforcement Bars, Epoxy Coated			Pound	1,770

BILL OF MATERIAL
MIDSPAN 14

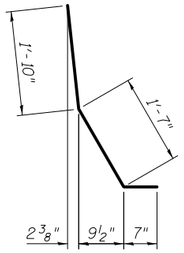
(Total for 1 joint)

Bar	No.	Size	Length	Shape
a(E)	10	#5	20'-3"	———
a1(E)	8	#5	20'-9"	———
a2(E)	10	#5	30'-4"	———
a3(E)	8	#5	30'-11"	———
a4(E)	24	#5	4'-8"	———
d(E)	20	#5	4'-0"	⌊
d1(E)	20	#5	5'-2"	L
Concrete Superstructure			Cu. Yd.	8.3
Protective Coat			Sq. Yd.	28
Reinforcement Bars, Epoxy Coated			Pound	1,270

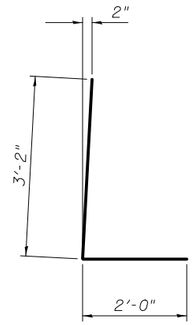
BILL OF MATERIAL
SPANS 8-13, 15-34

(Total for 18 joints)

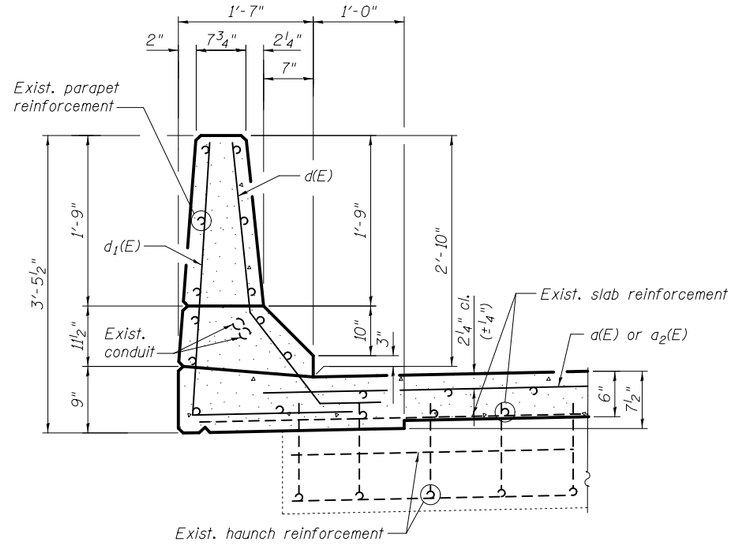
Bar	No.	Size	Length	Shape
a(E)	72	#5	20'-3"	———
a2(E)	72	#5	30'-4"	———
d(E)	144	#5	4'-0"	⌊
d1(E)	144	#5	5'-2"	L
Concrete Superstructure			Cu. Yd.	36.1
Protective Coat			Sq. Yd.	164
Reinforcement Bars, Epoxy Coated			Pound	5,180



BAR d(E)



BAR d1(E)



TYPICAL SECTION THRU PARAPET
SPANS 8-13, 15-34

All edges shall have 3/4" chamfer.

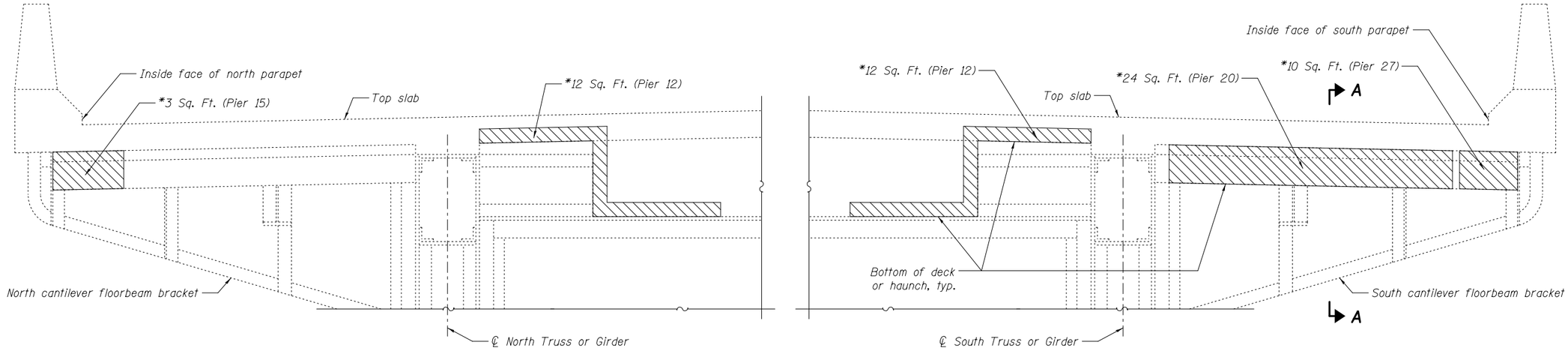
MODJESKI and MASTERS Experience great bridges.	USER NAME =	DESIGNED - APL	REVISED
		CHECKED - RLM	REVISED
	PLOT SCALE =	DRAWN - PRC	REVISED
	PLOT DATE = 10/05/2015	CHECKED - RLM	REVISED

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

EXPANSION JT REPLACEMENT – CONC DETAILS – MISCELLANEOUS 1
S.N. 090-0030 CEDAR STREET BRIDGE OVER ILLINOIS RIVER

SHEET NO. 92 OF 112 SHEETS

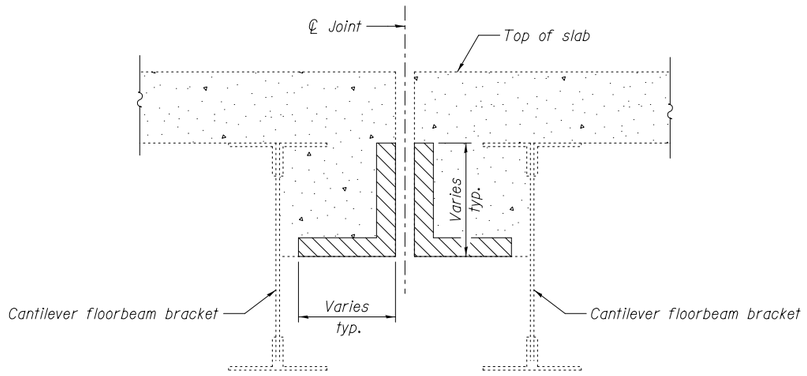
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
669	(103B)I-7	PEORIA/TAZEWELL	180	160
			CONTRACT NO. 68A93	
	ILLINOIS	FED. AID PROJECT		



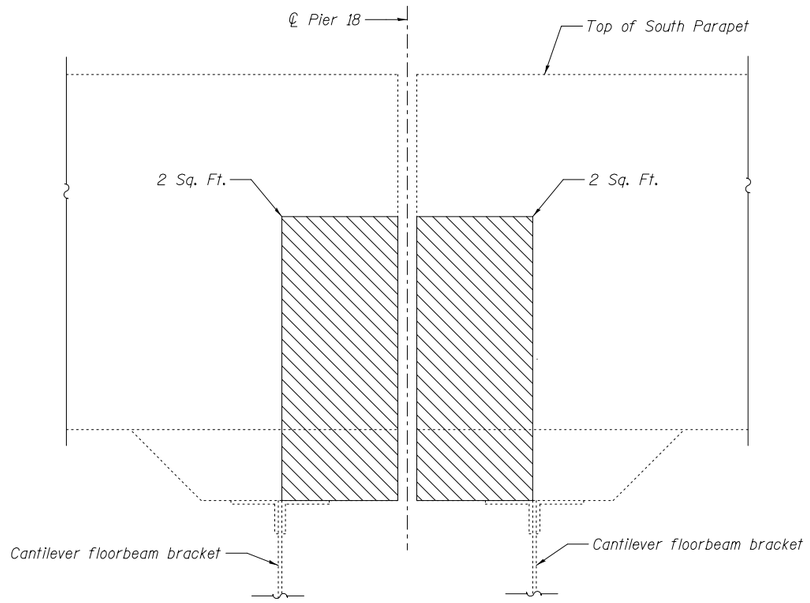
EDGE OF DECK AT EXPANSION JOINT - PIERS 12, 15, 20 AND 27

(Looking East)

* Total combined repair area both sides of joint



SECTION A-A



EXPANSION JOINT AT PIER 18

(Looking North)

LEGEND

Structural Repair of Concrete (Depth equal to or less than 5 inches)

BILL OF MATERIAL

ITEM	UNIT	TOTAL
Structural Repair of Concrete (Depth equal to or less than 5 inches)	Sq. Ft.	65

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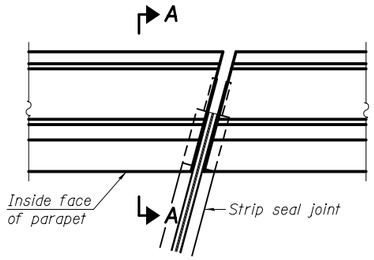
USER NAME =	DESIGNED - APL	REVISED
	CHECKED - RLM	REVISED
PLOT SCALE =	DRAWN - PRC	REVISED
PLOT DATE = 10/05/2015	CHECKED - RLM	REVISED

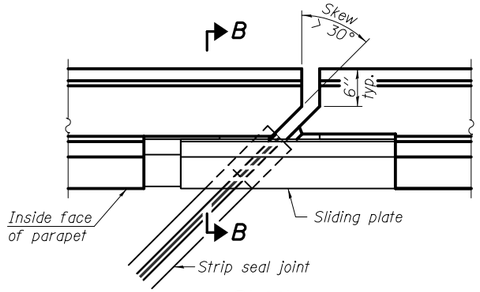
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

EXPANSION JT REPLACEMENT – CONC DETAILS – MISCELLANEOUS 2
S.N. 090–0030 CEDAR STREET BRIDGE OVER ILLINOIS RIVER
SHEET NO. 93 OF 112 SHEETS

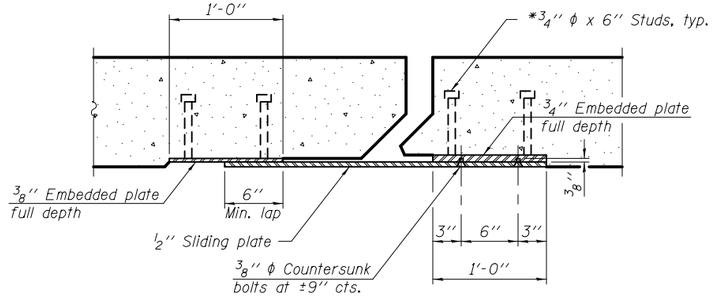
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
669	(103B)I-7	PEORIA/TAZEWELL	180	161
		CONTRACT NO. 68A93		
	ILLINOIS	FED. AID PROJECT		



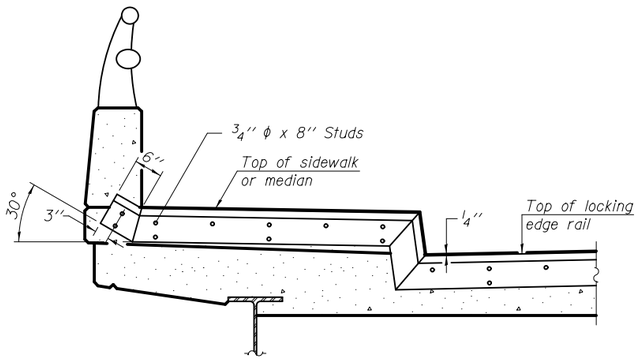
PLAN
(For skews ≤ 30°)



PLAN
(For skews > 30°)
Showing point block

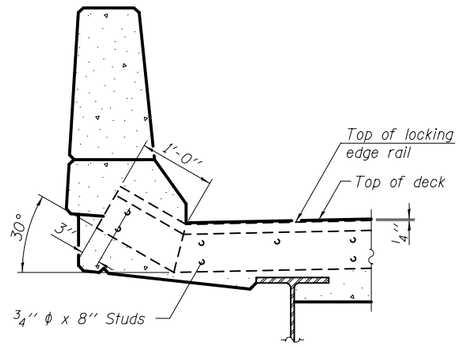


SECTION C-C

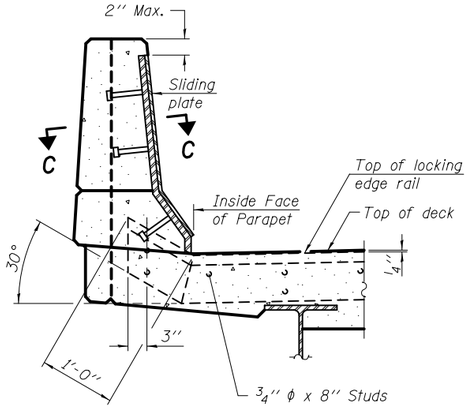


TYPICAL END TREATMENT AT SIDEWALK OR MEDIAN

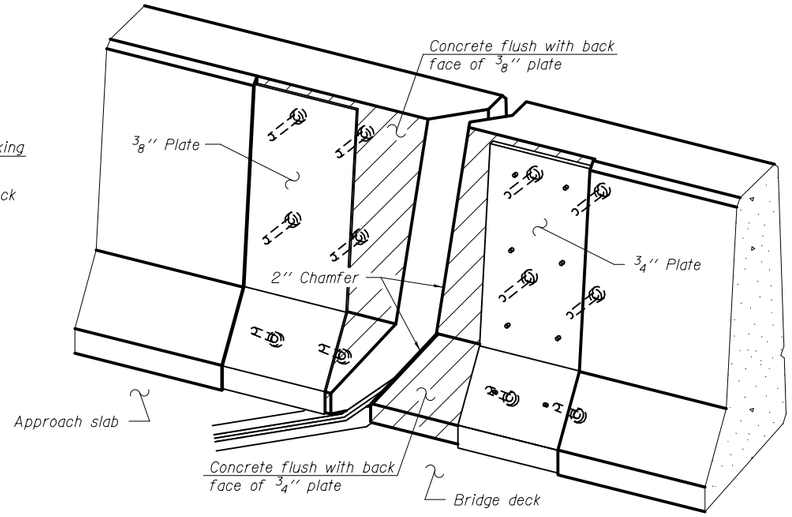
Shorter plates with a single row of studs at 12" cts. may be necessary on medians which are shallower than 9". See manufacturer's recommendation.



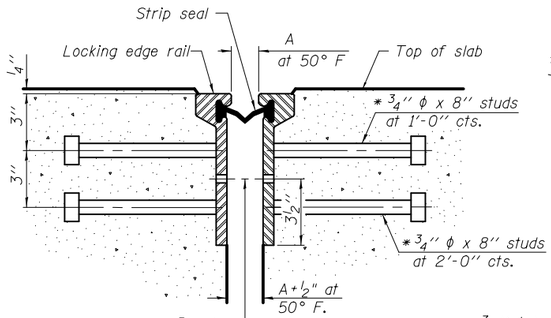
SECTION A-A



SECTION B-B

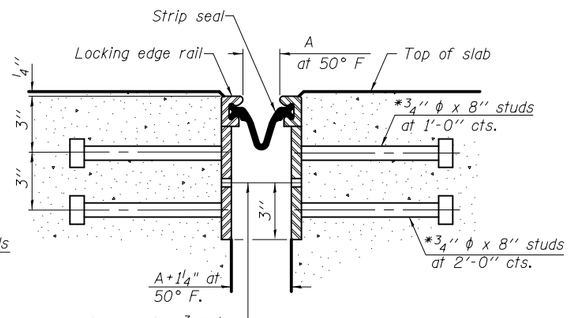


TRIMETRIC VIEW
(Showing back plates only)



7/16" ϕ holes at 4'-0" cts. for 3/8" ϕ bolts. All bolts shall be burned, sawed, or chipped off flush with the plates after forms are removed, typ.

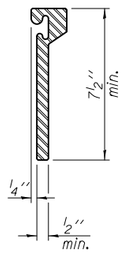
SECTION THRU ROLLED RAIL JOINT



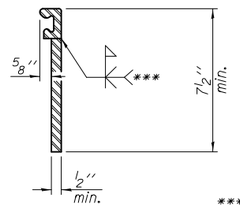
7/16" ϕ holes at 4'-0" cts. for 3/8" ϕ bolts. All bolts shall be burned, sawed, or chipped off flush with the plates after forms are removed, typ.

SECTION THRU WELDED RAIL JOINT

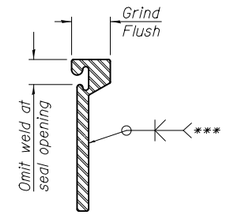
* Granular or solid flux filled headed studs conforming to Article 1006.32 of the Std. Specs., automatically end welded.



ROLLED EXTRUDED RAIL



WELDED RAIL



*** Back gouge not required if complete joint penetration is verified by mock-up.

LOCKING EDGE RAIL SPLICE

The inside of the locking edge rail groove shall be free of weld residue.

Rolled rail shown, welded rail similar.

LOCKING EDGE RAILS

Notes:

The strip seal shall be made continuous and shall have a minimum thickness of 1/4". The configuration of the strip seal shall match the configuration of the Locking Edge Rails. Open or "webbed" strip seal gland configurations are not permitted. The gland shall be sized for a maximum rated movement of 4 inches at the west abutment and piers 2, 4, and 5. The gland shall be sized for a maximum rated movement of 5 inches at Midspan 14.

The Locking Edge Rails depicted are conceptual only, except for the minimum dimensions shown. The actual configuration of the Locking Edge Rails and matching strip seal may vary from manufacturer to manufacturer. Flanged edge rails will not be allowed. Locking Edge Rails may be spliced at slope discontinuities.

The manufacturer's recommended installation methods shall be followed.

The joint opening and deck dimensions detailed on the superstructure are based on a rolled rail expansion joint. If the Contractor elects to use the welded rail expansion joint, the opening and deck dimensions shall be modified according to the dimensions detailed on this sheet. Required modifications shall be made at no additional cost to the State.

All steel components shall be galvanized after fabrication according to Article 520.03 of the Standard Specifications.

Maximum space between rail segments shall be 3/16", sealed with a suitable sealant. Joints in rails within 10 ft. of curbs shall be welded.

Parapet plates and anchorage studs for skews > 30° included in the cost of Preformed Joint Strip Seal.

For joint opening, see table on Sheets 87 and 89 of 112.

BILL OF MATERIAL

Item	Unit	Total
Preformed Joint Strip Seal	Foot	256

USER NAME =	DESIGNED - RLM	REVISED	
	CHECKED - APL	REVISED	
PLOT SCALE =	DRAWN - PRC	REVISED	
PLOT DATE = 10/05/2015	CHECKED - RLM	REVISED	

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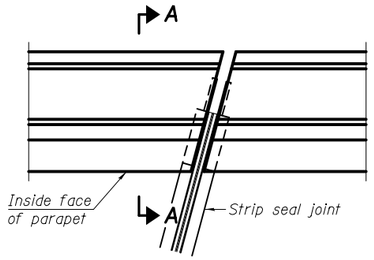
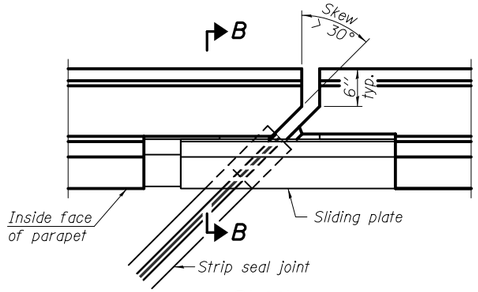
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PREFORMED JOINT STRIP SEAL – SPANS 1–7 AND MIDSPAN 14
S.N. 090–0030 CEDAR STREET BRIDGE OVER ILLINOIS RIVER
SHEET NO. 94 OF 112 SHEETS

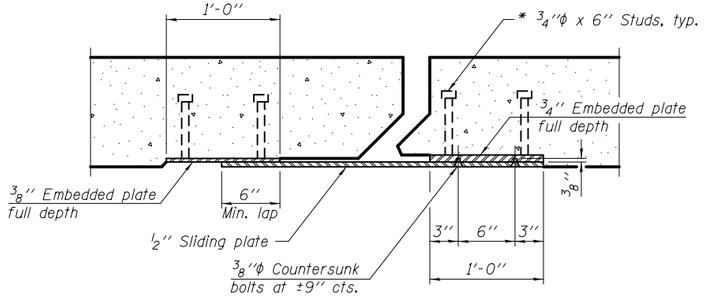
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
669	(103B)I-7	PEORIA/TAZEWELL	180	162
		CONTRACT NO. 68A93		
	ILLINOIS	FED. AID PROJECT		



PLAN
(For skews ≤ 30°)

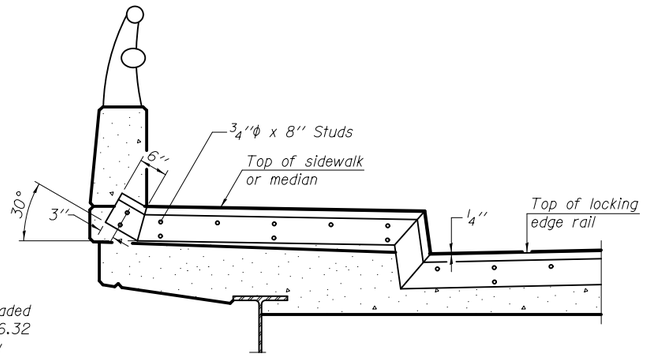


PLAN
(For skews > 30°)
Showing point block



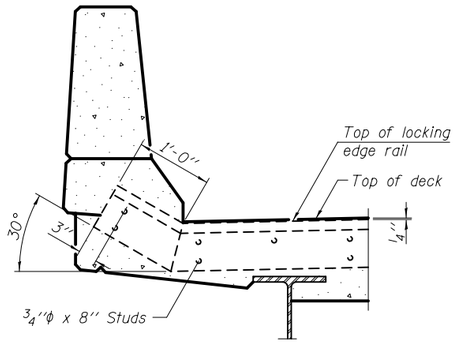
SECTION C-C

* Granular or solid flux filled headed studs conforming to Article 1006.32 of the Std. Specs., automatically end welded.

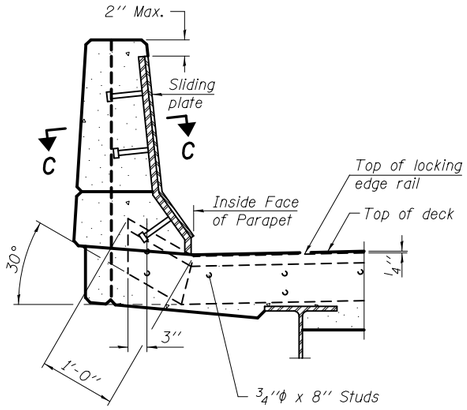


TYPICAL END TREATMENT AT SIDEWALK OR MEDIAN

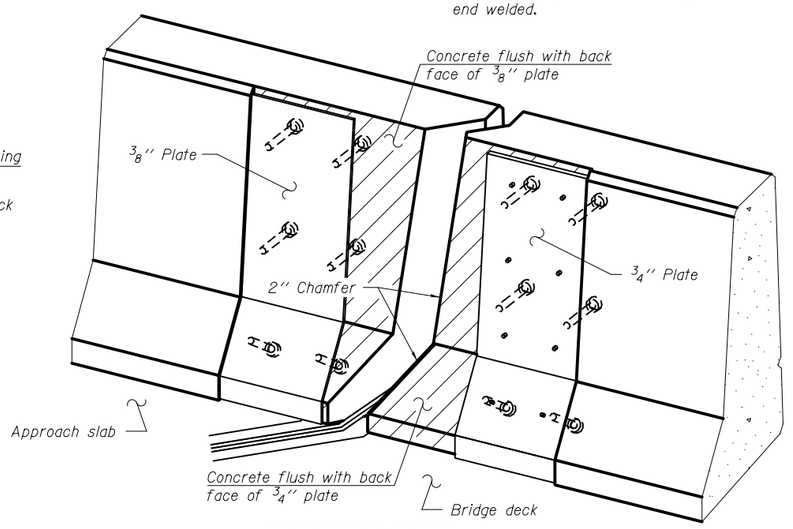
Shorter plates with a single row of studs at 12'' cts. may be necessary on medians which are shallower than 9''. See manufacturer's recommendation.



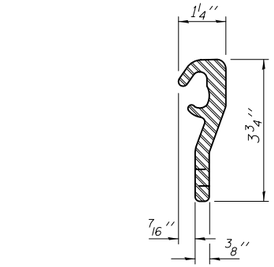
SECTION A-A



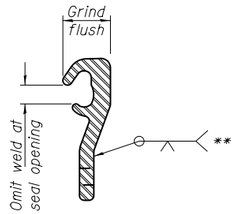
SECTION B-B



TRIMETRIC VIEW
(Showing back plates only)

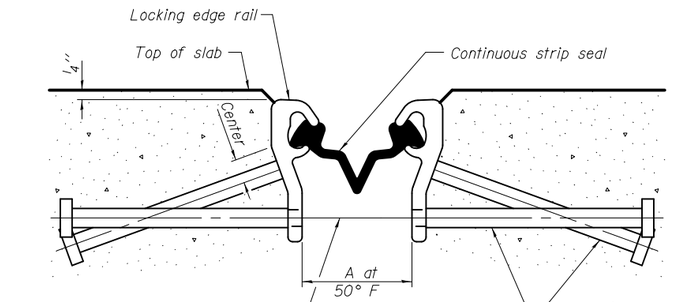


LOCKING EDGE RAIL



LOCKING EDGE RAIL SPLICE

** Back gouge not required if complete joint penetration is verified by mock-up.



7/16''ϕ holes at 4'-0'' cts. for 3/8''ϕ bolts. All bolts shall be burned, sawed, or chipped off flush with the plates after forms are removed, typ.

Place 1/2''ϕ x 6'' granular or solid flux filled headed studs conforming to Article 1006.32 of the Std. Specs., automatically end welded at 1'-0'' alt. cts.

SECTION THRU STRIP SEAL JOINT

For joint opening, see table on Sheet 91 of 112.

Notes:

The strip seal shall be made continuous and shall have a minimum thickness of 1/4''. The configuration of the strip seal shall match the configuration of the Locking Edge Rails. Open or "webbed" strip seal gland configurations are not permitted. The gland shall be sized for a maximum rated movement of 4 inches.

The Locking Edge Rails depicted are conceptual only, except for the minimum dimensions shown. The actual configuration of the Locking Edge Rails and matching strip seal may vary from manufacturer to manufacturer. Flanged edge rails will not be allowed. Locking Edge Rails may be spliced at slope discontinuities.

The manufacturer's recommended installation methods shall be followed.

The joint opening and deck dimensions detailed on the superstructure are based on a rolled rail expansion joint. If the Contractor elects to use the welded rail expansion joint, the opening and deck dimensions shall be modified according to the dimensions detailed on this sheet. Required modifications shall be made at no additional cost to the State.

All steel components shall be galvanized after fabrication according to Article 520.03 of the Standard Specifications.

Maximum space between rail segments shall be 3/16'', sealed with a suitable sealant. Joints in rails within 10 ft. of curbs shall be welded.

Parapet plates and anchorage studs for skews > 30° included in the cost of Preformed Joint Strip Seal.

BILL OF MATERIAL

Item	Unit	Total
Preformed Joint Strip Seal	Foot	922

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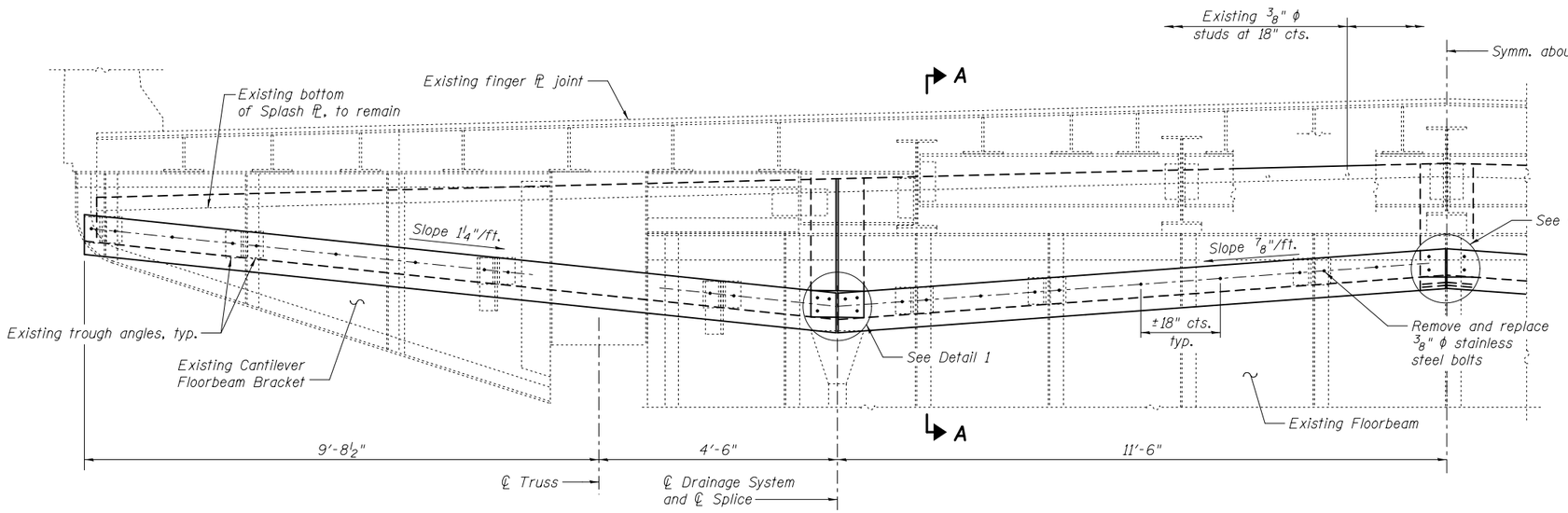
USER NAME =	DESIGNED - RLM	REVISED
	CHECKED - APL	REVISED
PLOT SCALE =	DRAWN - PRC	REVISED
PLOT DATE = 10/05/2015	CHECKED - RLM	REVISED

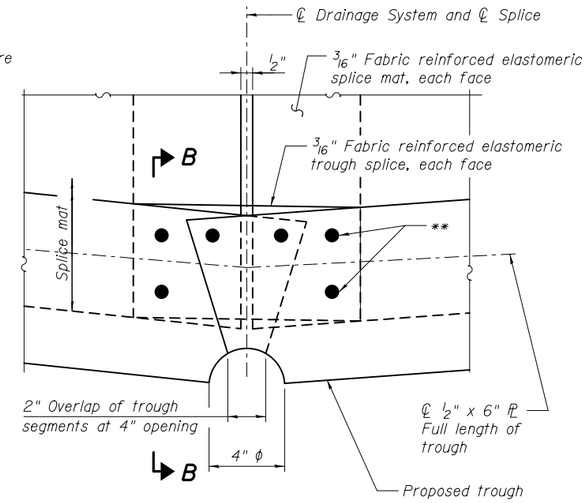
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PREFORMED JOINT STRIP SEAL – SPANS 8–13, 15–34
S.N. 090–0030 CEDAR STREET BRIDGE OVER ILLINOIS RIVER
SHEET NO. 95 OF 112 SHEETS

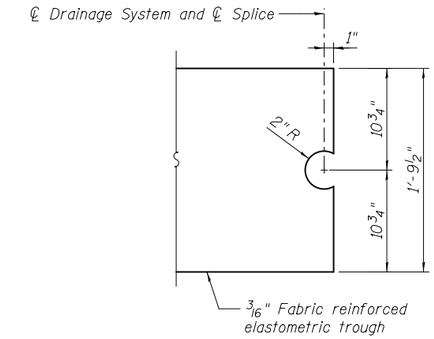
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
669	(103B)I-7	PEORIA/TAZEWELL	180	163
			CONTRACT NO. 68A93	
	ILLINOIS	FED. AID PROJECT		



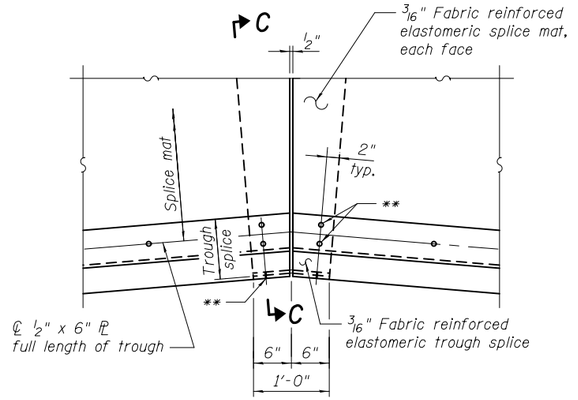
ELEVATION AT PIER 18 SHOWING TROUGH



DETAIL 1

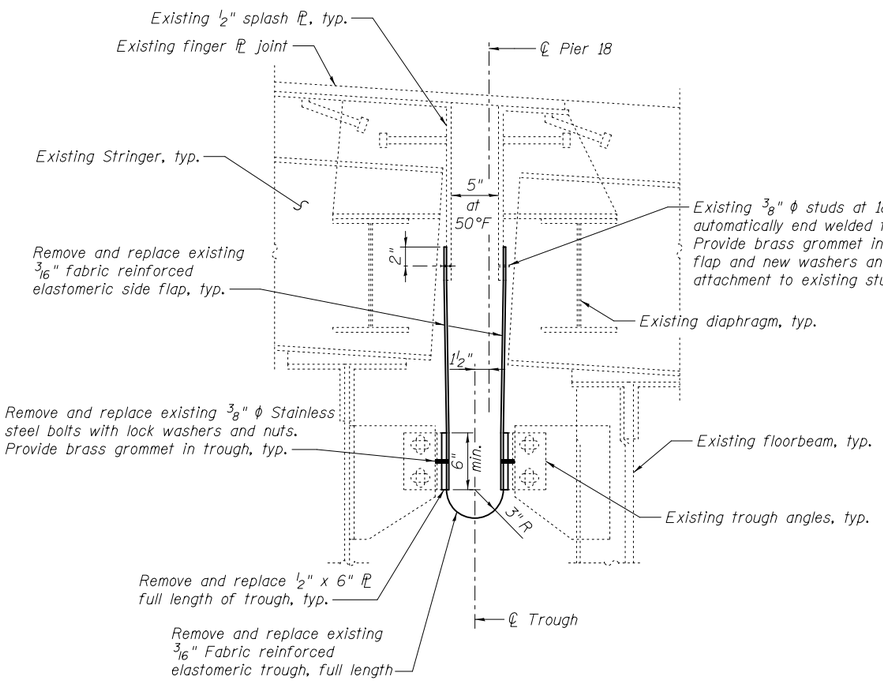


TROUGH CUTTING DETAIL AT DRAINAGE SYSTEM

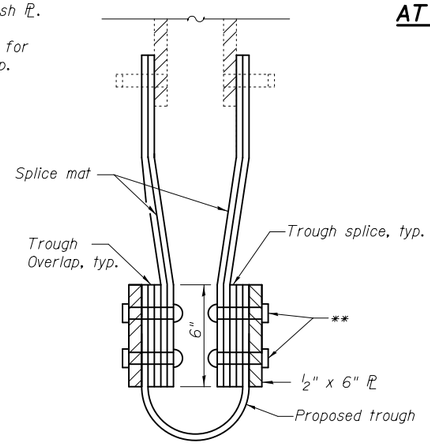


DETAIL 2

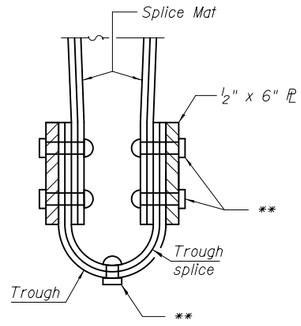
** $\frac{3}{8}$'' ϕ Stainless Steel bolts with washers and nuts. Provide brass grommet in trough.



SECTION A-A



SECTION B-B



SECTION C-C

BILL OF MATERIAL

Item	Unit	Total
Fabric Reinforced Elastomeric Trough	Foot	52

Notes:

Fabric reinforced material for trough and side flap shall be in accordance with Section 520 of the Standard Specifications.

All new steel shall be hot dipped galvanized in accordance with Section 520.04 of the Standard Specifications.

Cost for fasteners and plates required to complete the work shall be included with the cost for Fabric Reinforced Elastomeric Trough.

Cost to remove existing trough shall be included with the cost for Fabric Reinforced Elastomeric Trough.

Extreme care shall be taken while replacing existing trough as not to damage any part of the existing joint assembly. Any damaged parts shall be replaced at Contractor's expense.

All the bolts required to connect the elastomeric trough to the existing floorsystem shall be located in existing holes.

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USER NAME =	DESIGNED - ZWV	REVISED
	CHECKED - JAK	REVISED
PLOT SCALE =	DRAWN - AEC	REVISED
PLOT DATE = 10/05/2015	CHECKED - RLM	REVISED

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TROUGH REPLACEMENT DETAILS AT PIER 18
S.N. 090-0030 CEDAR STREET BRIDGE OVER ILLINOIS RIVER
SHEET NO. 96 OF 112 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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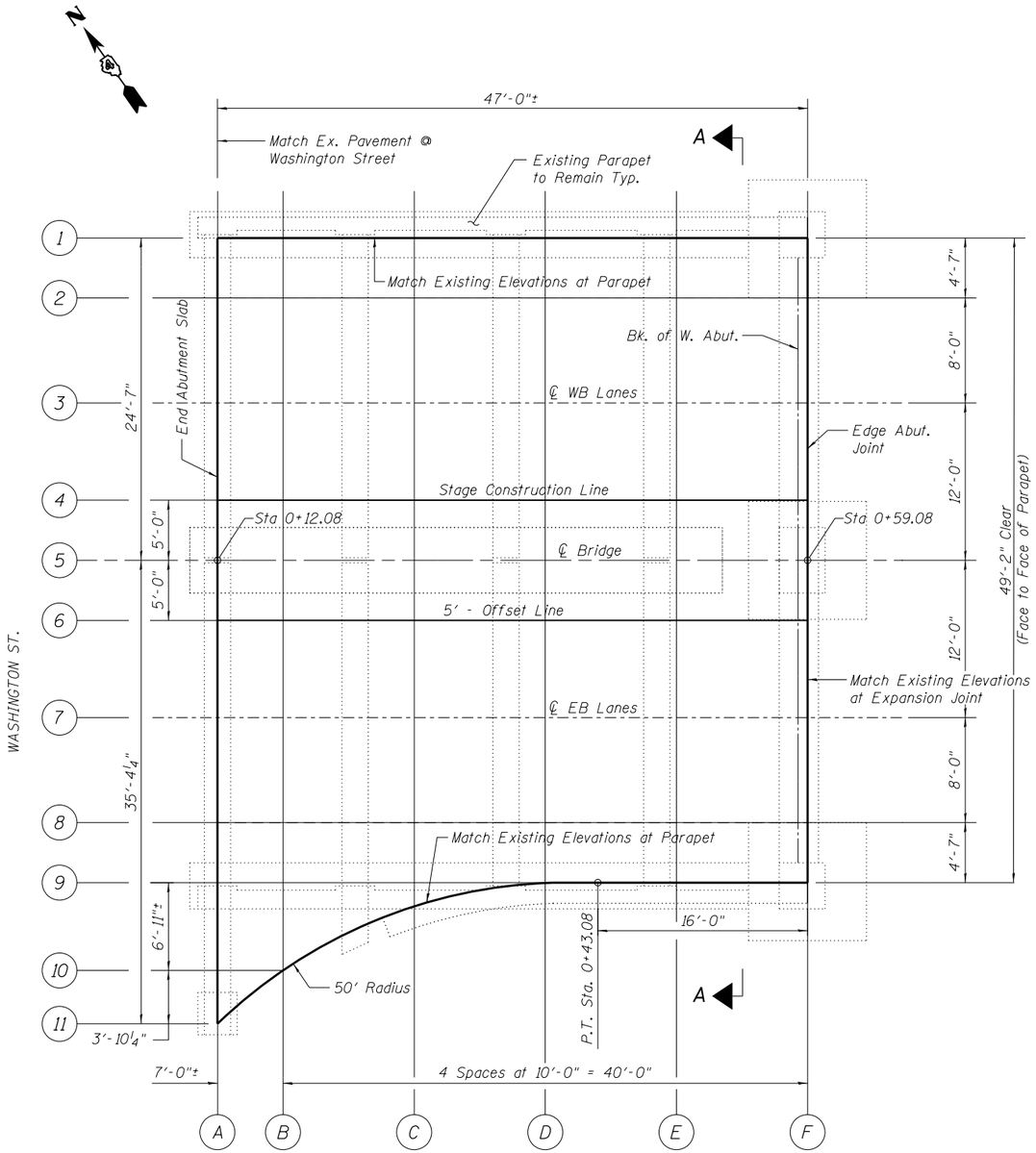
		CONTRACT NO. 68A93		
		ILLINOIS FED. AID PROJECT		

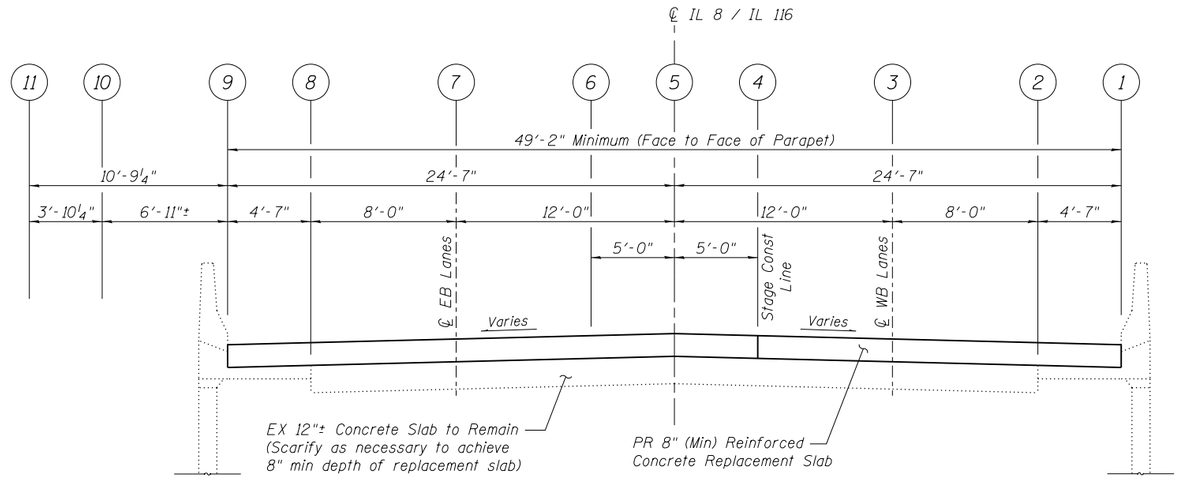


PLAN

West Abutment Approach Slab

Benchmark

Cap bolt between the E&L in "MUELLER" on Fire Hydrant at the Northeast Quadrant of Washington St. and MacArthur.
Sta 110+47.04, 31.83' Lt
Elev = 486.226



SECTION A-A THRU APPROACH SLAB

Looking NorthWest

TOP OF SLAB ELEVATIONS

		A End Abut. Slab	B	C	D	E	F Edge Abut. Jt.
	Offset	Sta 0+12.08	Sta 0+19.08	Sta 0+29.08	Sta 0+39.08	Sta 0+49.08	Sta 0+59.08
1	24.58' Lt	482.12	482.51	482.87	483.38	483.69	484.14
2	20.00' Lt	482.25	482.60	482.95	483.43	483.76	484.22
3	12.00' Lt	482.45	482.76	483.09	483.52	483.87	484.34
4	5.00' Lt	482.59	482.90	483.21	483.60	483.98	484.43
5	0.00' ℄	482.70	483.00	483.30	483.65	484.05	484.50
6	5.00' Rt	482.59	482.89	483.22	483.58	483.99	484.43
7	12.00' Rt	482.43	482.73	483.10	483.49	483.91	484.32
8	20.00' Rt	482.25	482.56	482.97	483.39	483.81	484.16
9	24.58' Rt	482.14	482.45	482.90	483.33	483.76	484.11
10	31.50' Rt	482.04	482.30	--	--	--	--
11	35.35' Rt	482.02	--	--	--	--	--

Note:
Work this sheet with Sheet 98 of 112

(•) Peoria / Tazewell

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QUIGG ENGINEERING INC

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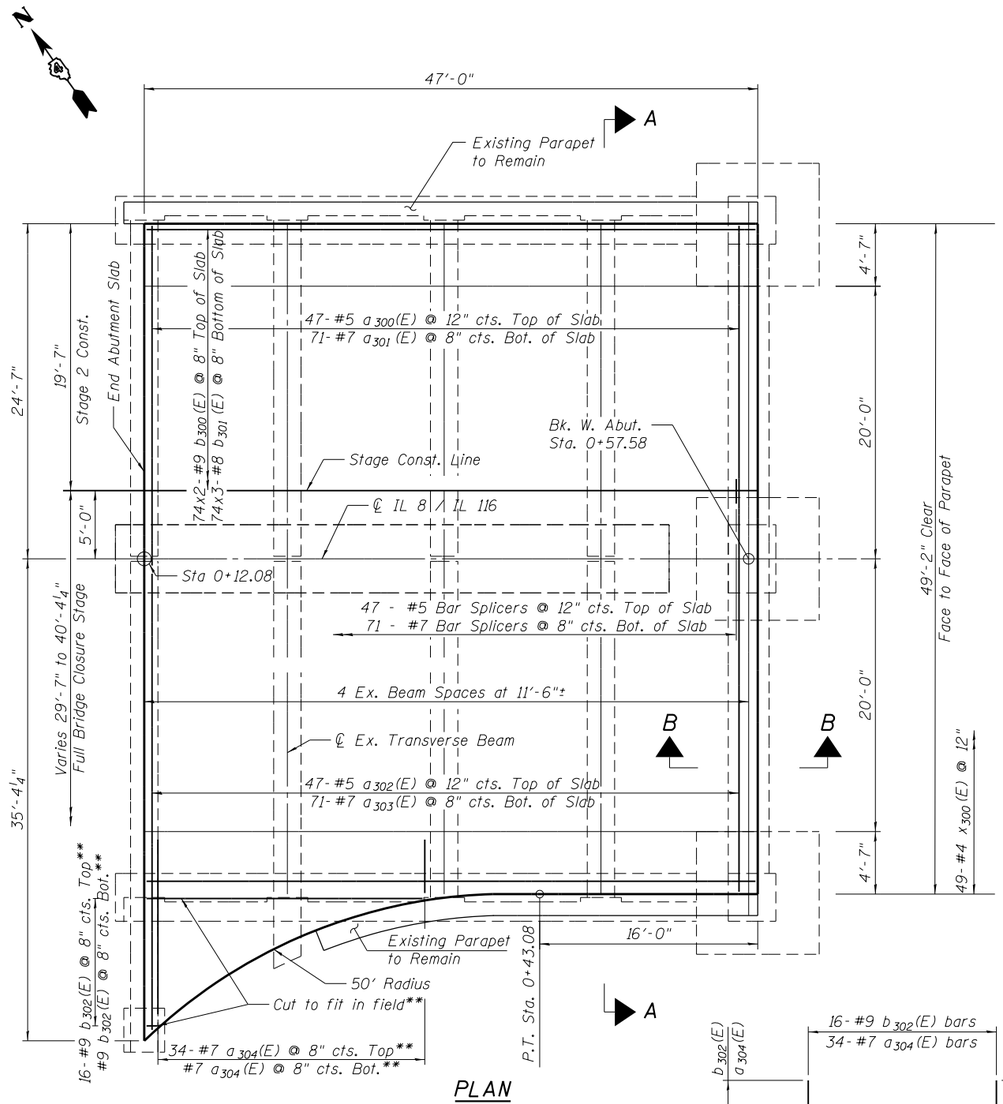
PLOT SCALE = 0.1667 ' / in.	DRAWN - TRF	REVISED	
PLOT DATE = 10/05/2015	CHECKED - DRB	REVISED	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

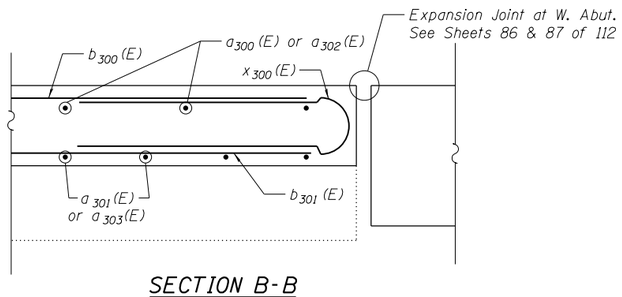
VAULTED WEST ABUTMENT TOP OF SLAB ELEVATIONS
S.N. 090-0030 CEDAR STREET BRIDGE OVER ILLINOIS RIVER
SHEET NO. 97 OF 112 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
669	(103B)I-7	(•)	180	165
		CONTRACT NO. 68A93		
	ILLINOIS FED. AID PROJECT			

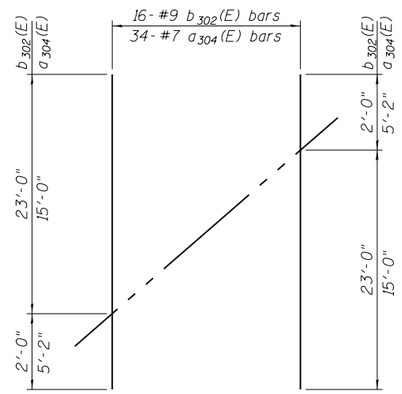


PLAN

West Abutment Slab

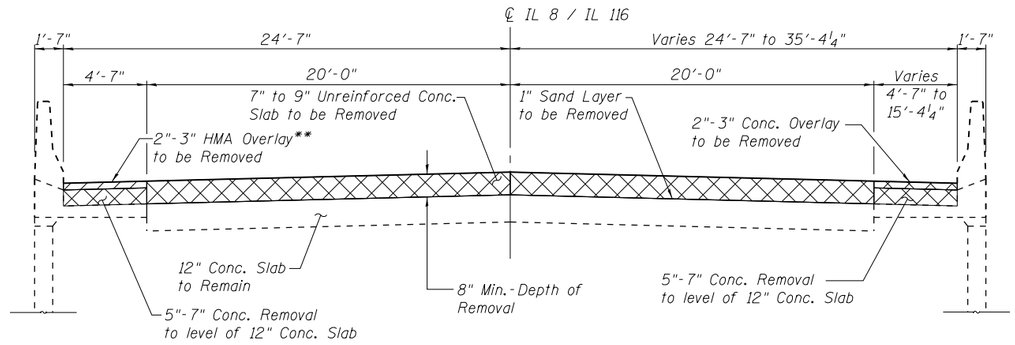


SECTION B-B



**FIELD CUTTING DIAGRAM

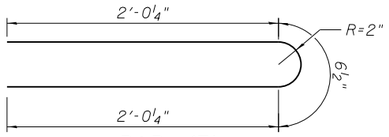
Order $b_{302}(E)$ and $a_{304}(E)$ full length. Cut as shown and use remainder of bars in bottom of slab in flare.



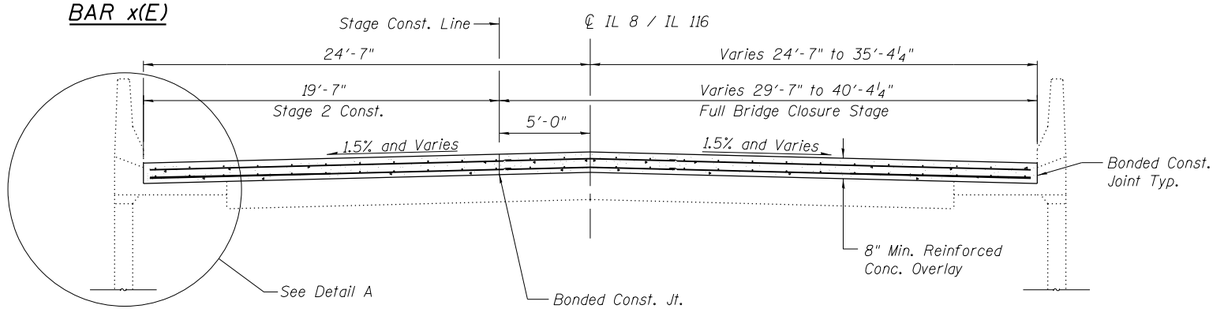
SECTION A-A-EXISTING

HMA Overlay - North side
Conc. Overlay - South side

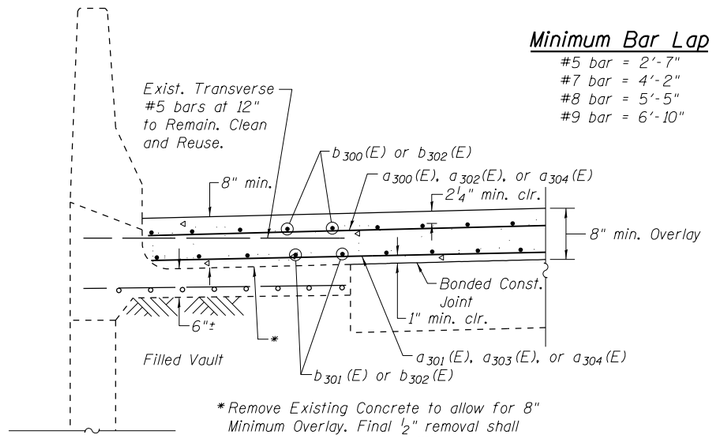
**HMA overlay removal will be measured and included for payment as CONCRETE REMOVAL.



BAR x(E)



SECTION A-A-PROPOSED



*Remove Existing Concrete to allow for 8" Minimum Overlay. Final ½" removal shall be done using Hydrodemolition.

DETAIL A

Minimum Bar Lap

#5 bar = 2'-7"
#7 bar = 4'-2"
#8 bar = 5'-5"
#9 bar = 6'-10"

WEST ABUTMENT BILL OF MATERIAL

BAR	NO.	SIZE	LENGTH	SHAPE
$a_{300}(E)$	47	#5	19'-4"	
$a_{301}(E)$	71	#7	19'-4"	
$a_{302}(E)$	47	#5	29'-4"	
$a_{303}(E)$	71	#7	29'-4"	
$a_{304}(E)$	34	#7	20'-2"	
$b_{300}(E)$	148	#9	26'-9"	
$b_{301}(E)$	222	#8	19'-2"	
$b_{302}(E)$	16	#9	25'-0"	
$x_{300}(E)$	49	#4	4'-7"	

ITEM	UNIT	QUANTITY
Concrete Removal	Cu. Yd.	62
Concrete Superstructure	Cu. Yd.	61.5
Bridge Deck Grooving	Sq. Yd.	276
Protective Coat	Sq. Yd.	276
Reinforcement Bars, Epoxy Coated	Pound	37,190

(*) Peoria / Tazewell

Work this sheet with Sheet 97 of 112
For Bar Splicer Details, see Sheet 112 of 112

FILE NAME = S:\Projects\2015 JOBS\ISIL004-00 QEI PTB 168-17 04 Cedar St Bridge\CADD\CADD Sheets\0900030-68A93-166-WAbutSlabRepair.dgn
MICROSTATION = V8i
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QUIGG ENGINEERING INC

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PLOT DATE = 10/05/2015	CHECKED - DRB	REVISED	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

VAULTED WEST ABUTMENT TOP SLAB REPLACEMENT
S.N. 090-0030 CEDAR STREET BRIDGE OVER ILLINOIS RIVER

SHEET NO. 98 OF 112 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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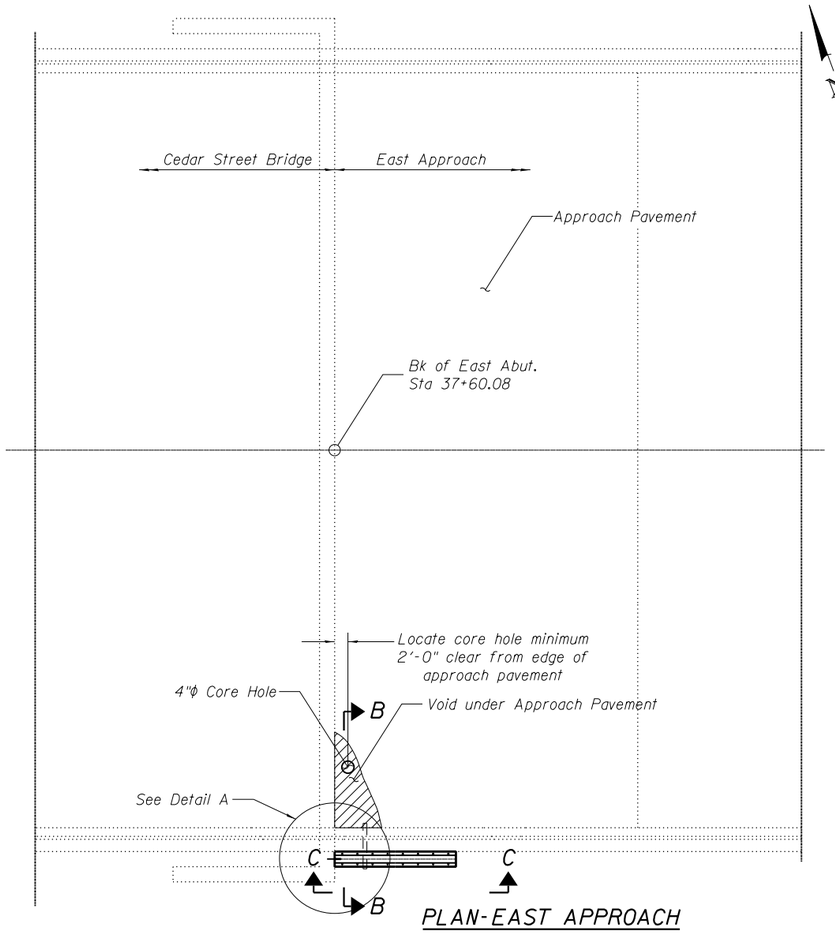
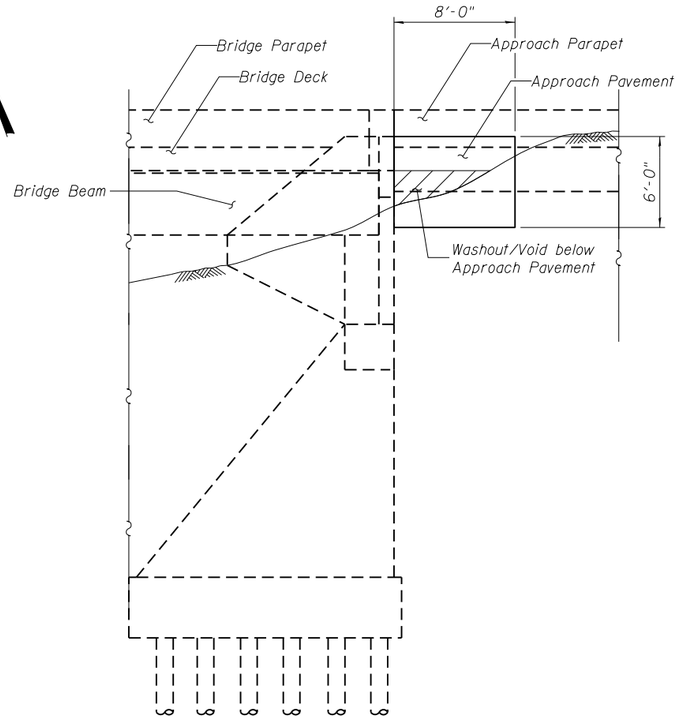
		CONTRACT NO. 68A93		
	ILLINOIS FED. AID PROJECT			

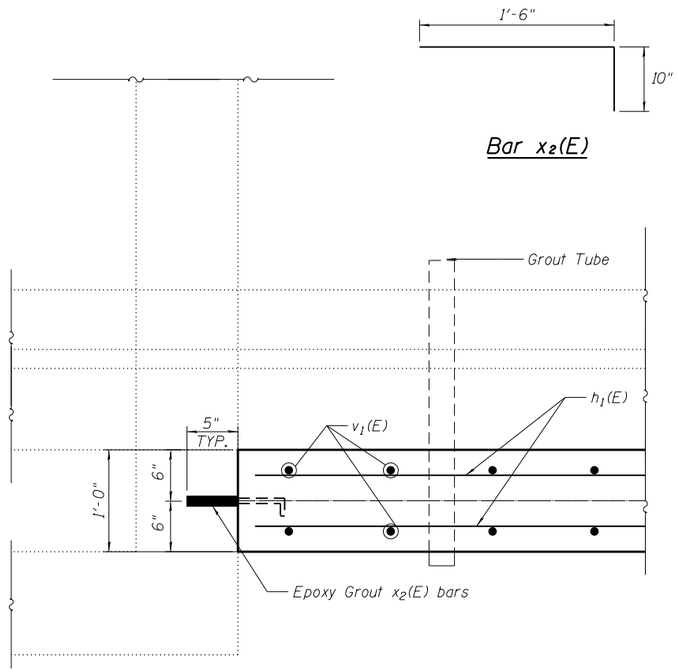


PLAN-EAST APPROACH



EAST ABUTMENT REPAIR

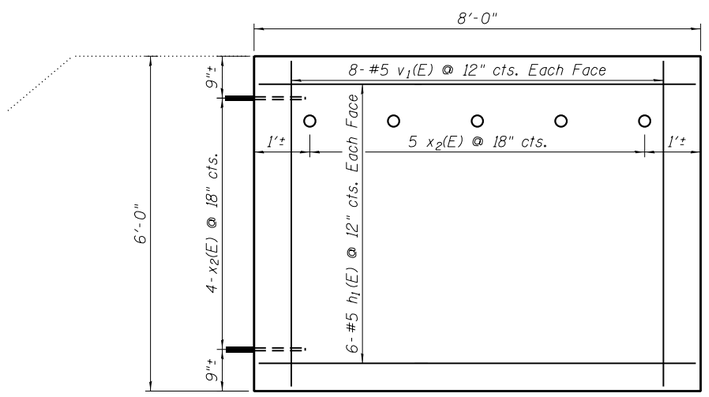
Repair at South Wingwall



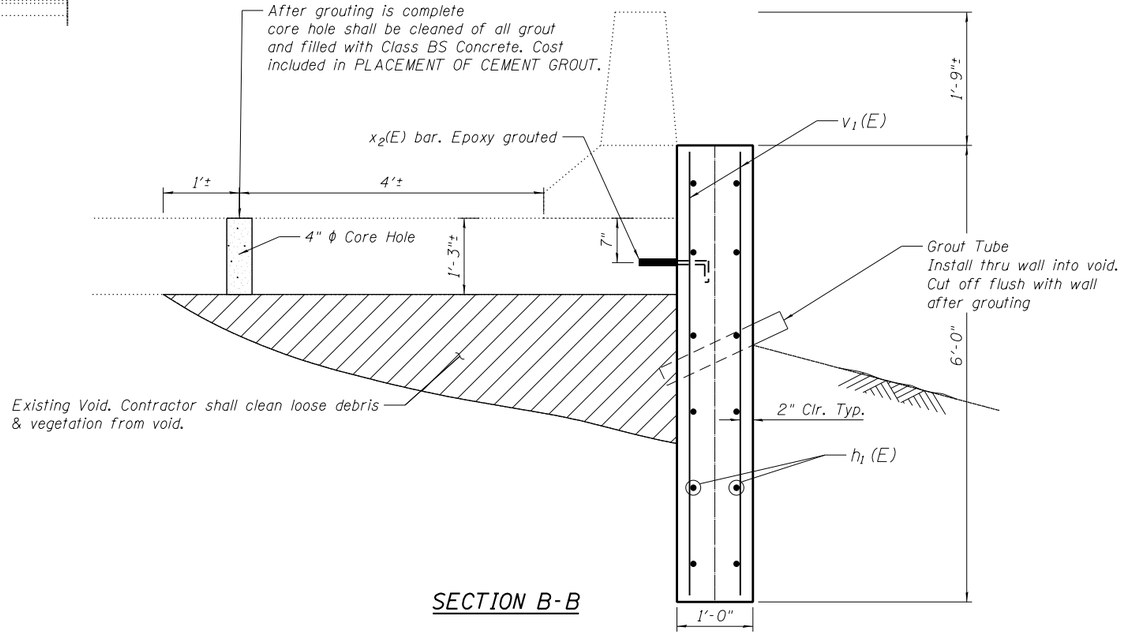
DETAIL A

Notes:

1. Contractor shall clean and measure void prior to beginning work.
2. 4" ϕ Core in pavement shall be located within 1' of transverse limit of void. If void limit is greater than 8', then a second hole will be required.
3. After wall is cured, grout shall be pumped into void thru grout tube until it fills core hole(s). See Special Provision.
4. Cost of grout tube, coring of the hole(s) and measuring void will not be paid for separately, but will be included in the cost of PLACEMENT OF CEMENT GROUT.
5. $x_2(E)$ shall be drilled and grouted in place according to Sec. 584 of IDOT Std. Specifications.



VIEW C-C



SECTION B-B

EAST ABUTMENT
BILL OF MATERIAL

BAR	NO.	SIZE	LENGTH	SHAPE
$h_1(E)$	12	#5	7'-8"	
$v_1(E)$	16	#5	5'-8"	
$x_2(E)$	9	#5	2'-4"	

ITEM	UNIT	QUANTITY
Concrete Structures	Cu. Yd.	1.8
Reinforcement Bars, Epoxy Coated	Pound	220
Placement of Cement Grout	Cu. Ft.	40

(•) Peoria / Tazewell

QUIGG ENGINEERING INC

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PLOT DATE = 10/05/2015	CHECKED - DRB	REVISED

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

EAST APPROACH SLAB FILL DETAILS
S.N. 090-0030 CEDAR STREET BRIDGE OVER ILLINOIS RIVER
SHEET NO. 99 OF 112 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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		CONTRACT NO. 68A93		
	ILLINOIS FED. AID PROJECT			

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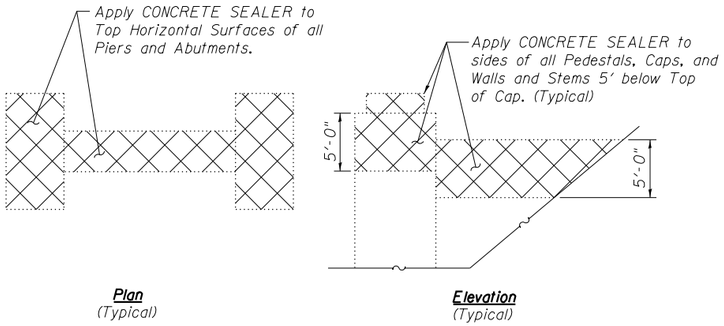
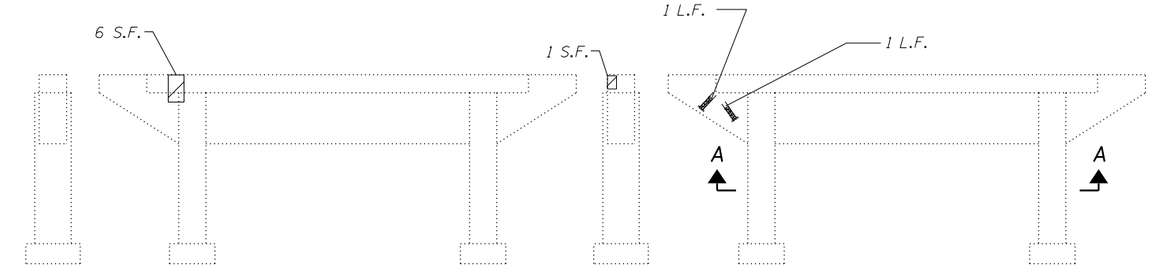


Plan
(Typical)

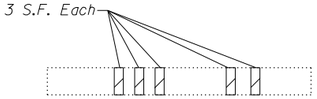
Elevation
(Typical)

Bridge Seat Sealer

(Typical Abutments, Piers 1-7, & Piers 10-33)



Pier 3 Elevation



View A-A

LEGEND

= Epoxy Crack Injection

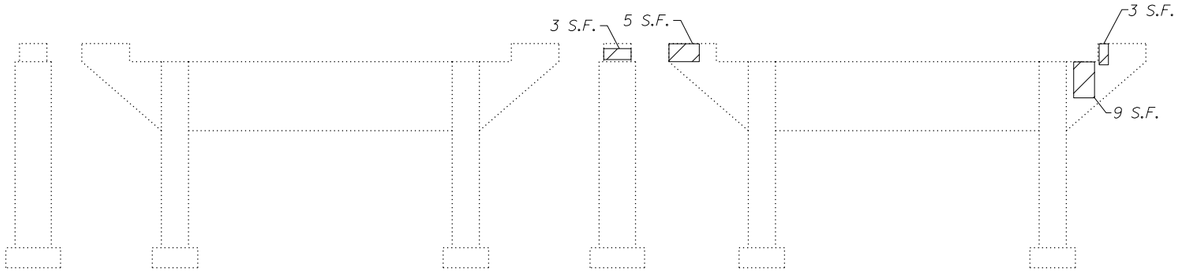
= Structural Repair of Concrete (Depth Equal to or Less than 5")

S.F. = Square Feet

L.F. = Linear Feet

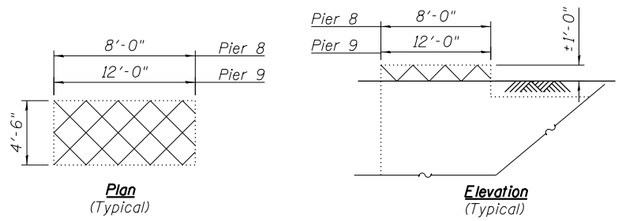
CONCRETE SEALER - SCHEDULE

LOCATION	LENGTH (FOOT)	WIDTH (FOOT)	HORIZ. AREA (SQ FT)	PERIMETER (FOOT)	VERT. DIM. (FOOT)	VERT. AREA (SQ FT)	TOTAL AREA (SQ FT)
W. ABUT	50.33	1.50	75.50	50.33	5.00	251.67	327
PIER 1	52.50	4.00	210.00	113.00	5.00	565.00	775
PIER 2	52.50	4.00	210.00	113.00	5.00	565.00	775
PIER 3	52.50	4.00	210.00	113.00	5.00	565.00	775
PIER 4	52.50	4.00	210.00	113.00	5.00	565.00	775
PIER 5	52.50	4.00	210.00	113.00	5.00	565.00	775
PIER 6	52.50	4.00	210.00	113.00	5.00	565.00	775
PIER 7	52.67	5.50	289.67	116.33	5.00	581.67	871
PIER 8	8.00	4.50	36.00	25.00	1.00	25.00	61
PIER 8	8.00	4.50	36.00	25.00	1.00	25.00	61
PIER 9	12.00	4.50	54.00	33.00	1.00	33.00	87
PIER 9	12.00	4.50	54.00	33.00	1.00	33.00	87
PIER 10	37.67	3.33	125.55	82.00	5.00	410.00	536
PIER 11	37.67	3.33	170.93	103.67	5.00	518.34	689
PIER 12	39.50	4.22	187.55	103.67	5.00	518.34	706
PIER 13	39.50	4.22	166.50	87.43	5.00	437.15	604
PIER 14	39.50	4.22	166.50	87.43	5.00	437.15	604
PIER 15	39.50	4.22	166.50	87.43	5.00	437.15	604
PIER 16	38.00	3.86	146.50	83.71	5.00	418.55	565
PIER 17	38.00	3.86	146.50	83.71	5.00	418.55	565
PIER 18	38.50	3.73	143.73	84.47	5.00	422.33	566
PIER 19	38.50	3.73	143.73	84.47	5.00	422.33	566
PIER 20	37.25	2.63	98.00	79.76	5.00	398.81	497
PIER 21	37.25	2.63	98.00	79.76	5.00	398.81	497
PIER 22	37.25	2.63	98.00	79.76	5.00	398.81	497
PIER 23	37.25	2.63	98.00	79.76	5.00	398.81	497
PIER 24	37.25	2.63	98.00	79.76	5.00	398.81	497
PIER 25	37.25	2.63	98.00	79.76	5.00	398.81	497
PIER 26	37.25	2.63	98.00	79.76	5.00	398.81	497
PIER 27	37.25	2.63	98.00	79.76	5.00	398.81	497
PIER 28	37.25	2.63	98.00	79.76	5.00	398.81	497
PIER 29	37.25	2.63	98.00	79.76	5.00	398.81	497
PIER 30	37.25	2.63	98.00	79.76	5.00	398.81	497
PIER 31	37.25	2.63	98.00	79.76	5.00	398.81	497
PIER 32	37.25	2.63	98.00	79.76	5.00	398.81	497
PIER 33	37.25	2.63	98.00	79.76	5.00	398.81	497
E. ABUT.	56.00	2.25	126.00	56.00	5.00	280.00	406
						TOTAL	19,513



North End **West Face** **South End** **East Face**

Pier 4 Elevation



Plan
(Typical)

Elevation
(Typical)

Bridge Seat Sealer

(Typical Piers 8 & 9)

BILL OF MATERIAL

ITEM	UNIT	TOTAL
Concrete Sealer	SQ. FT.	19,513
Epoxy Crack Injection	FOOT	2
Structural Repair of Concrete (Depth Equal to or Less than 5")	SQ. FT.	42

(•) Peoria / Tazewell

QUIGG ENGINEERING INC

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PLOT DATE = 10/05/2015	CHECKED - DRB	REVISED	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PIER 3 & PIER 4 REPAIR DETAILS
S.N. 090-0030 CEDAR STREET BRIDGE OVER ILLINOIS RIVER
SHEET NO. 100 OF 112 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
669	(103B)I-7	(•)	180	168
		CONTRACT NO. 68A93		
	ILLINOIS	FED. AID PROJECT		

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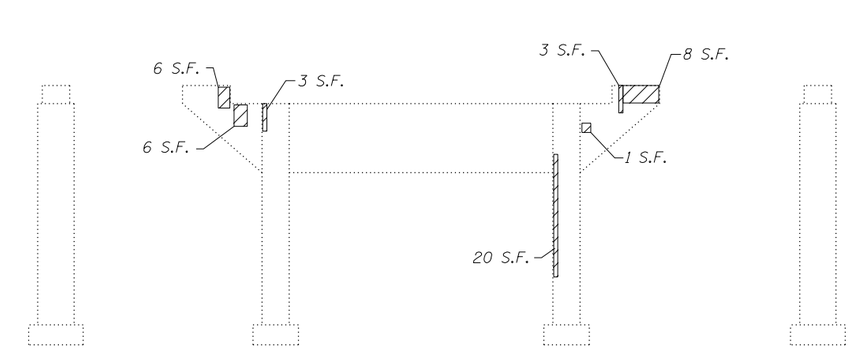
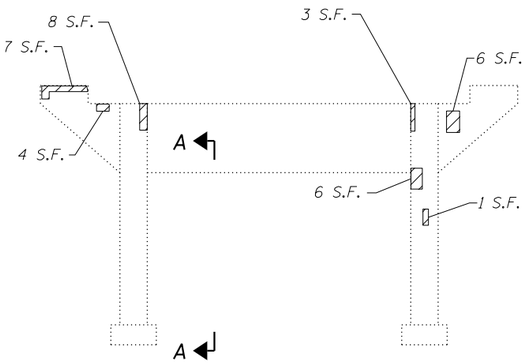


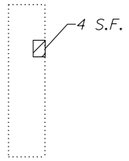
North End

West Face

South End

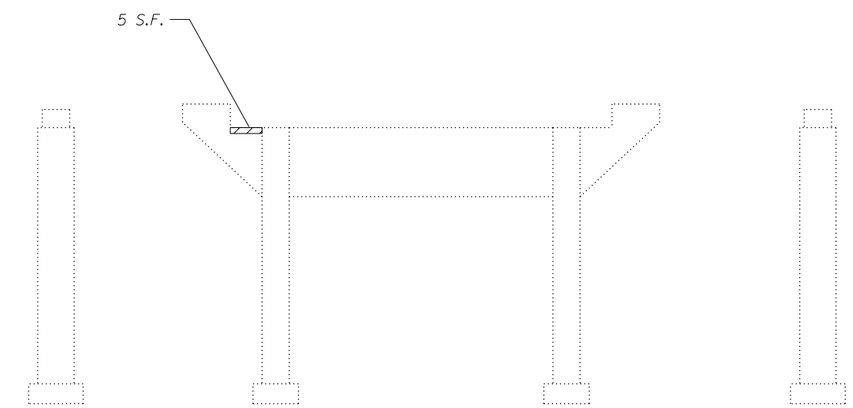


East Face



View A - A

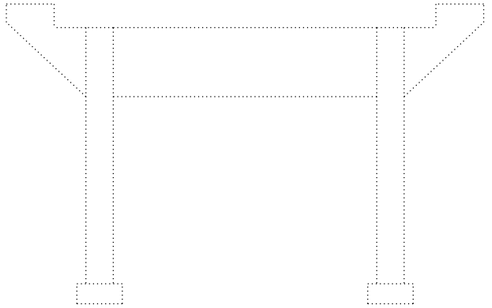
Pier 5 Elevation



North End

West Face

South End



East Face

LEGEND

= Structural Repair of Concrete (Depth Equal to or Less than 5")

S.F. = Square Feet

BILL OF MATERIAL

ITEM	UNIT	TOTAL
Structural Repair of Concrete (Depth Equal to or Less than 5")	SQ. FT.	91

Pier 6 Elevation

(*) Peoria / Tazewell

QUIGG ENGINEERING INC

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PLOT DATE = 10/05/2015	CHECKED - DRB	REVISED

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PIER 5 & PIER 6 REPAIR DETAILS
S.N. 090-0030 CEDAR STREET BRIDGE OVER ILLINOIS RIVER
SHEET NO. 101 OF 112 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
669	(103B)I-7	(*)	180	169
		CONTRACT NO. 68A93		
	ILLINOIS FED. AID PROJECT			

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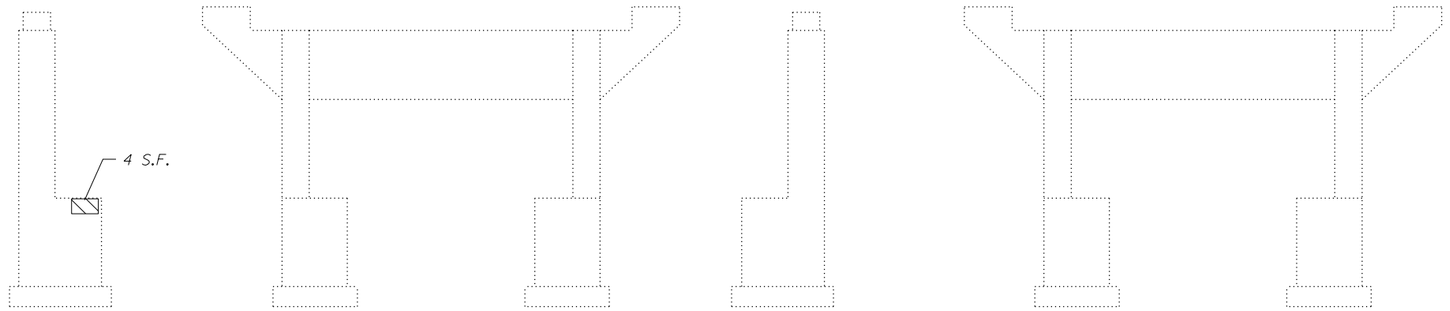
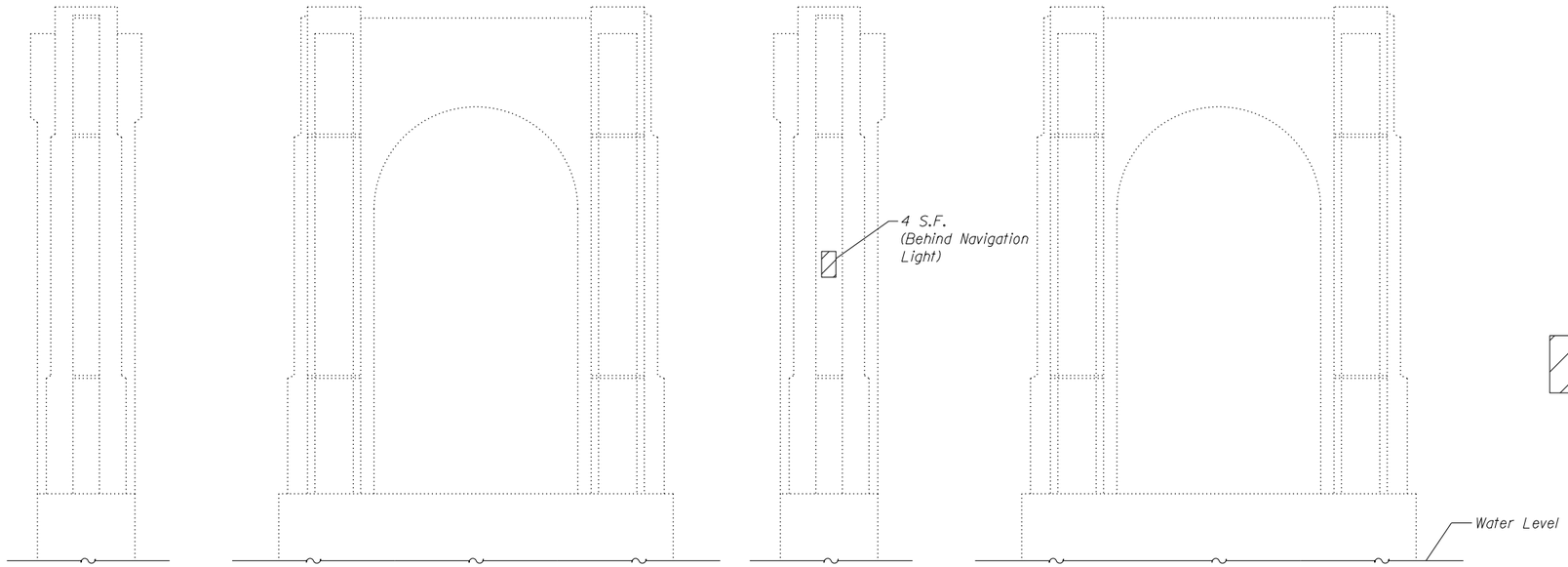


North End | West Face | South End | East Face

Pier 7 Elevation

Note:
Concrete repairs may be located adjacent to drainage or navigation light brackets and supports. Contractor shall protect brackets and supports during repair operations and will be responsible for damage and replacement of bracket or bracket connections if needed. Cost included in STRUCTURAL REPAIR OF CONCRETE (DEPTH EQUAL TO OR LESS THAN 5").



North End | West Face | South End | East Face

Pier 13 Elevation

LEGEND

= Structural Repair of Concrete (Depth Equal to or Less than 5")

S.F. = Square Feet

BILL OF MATERIAL

ITEM	UNIT	TOTAL
Structural Repair of Concrete (Depth Equal to or Less than 5")	SQ. FT.	8

(*) Peoria / Tazewell

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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PIER 7 & PIER 13 REPAIR DETAILS
S.N. 090-0030 CEDAR STREET BRIDGE OVER ILLINOIS RIVER
SHEET NO. 102 OF 112 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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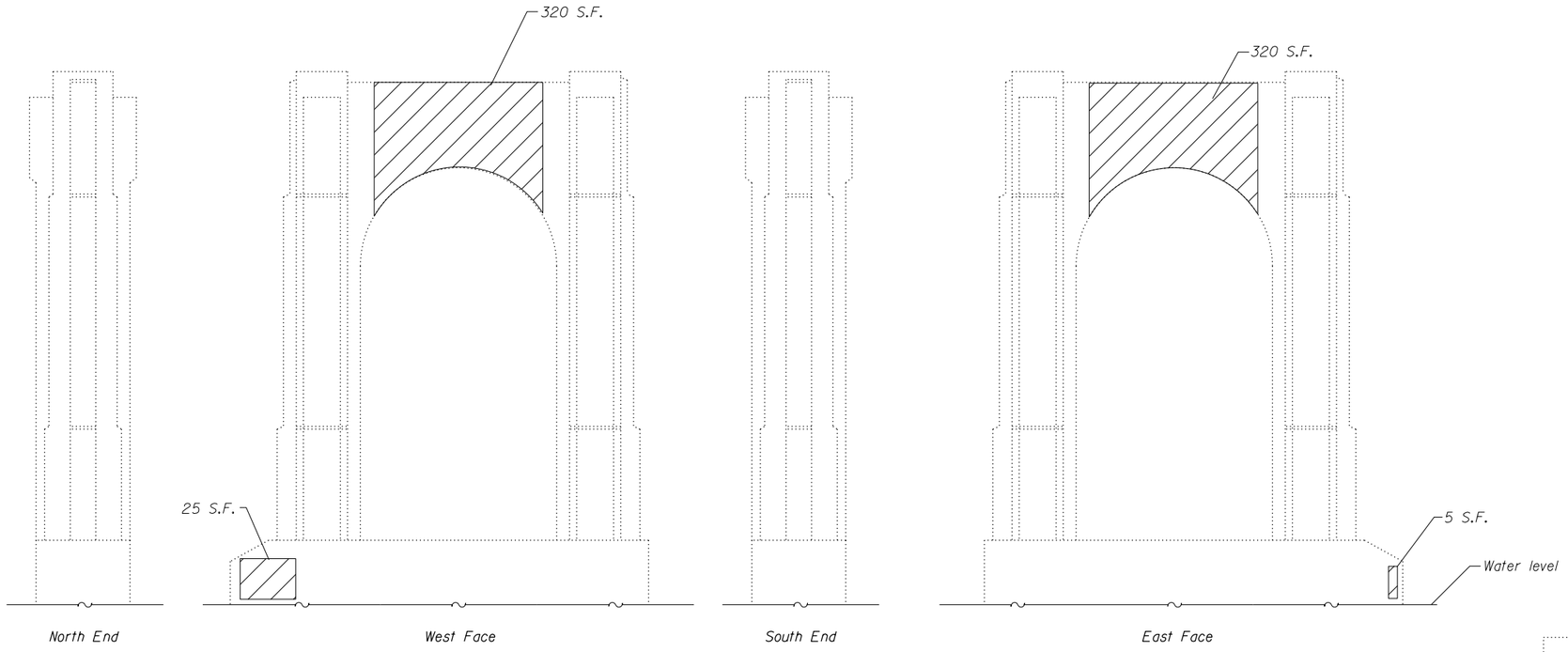
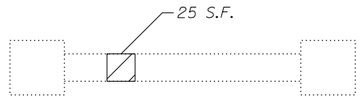
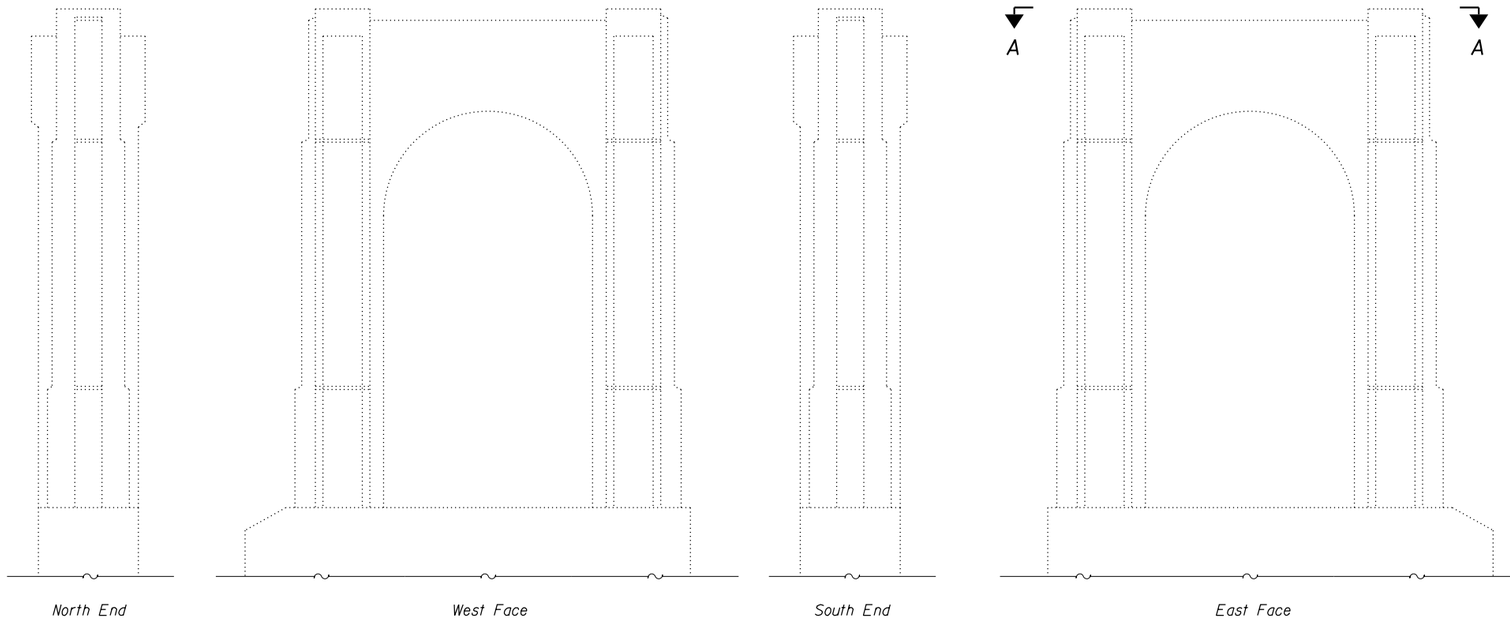
		CONTRACT NO. 68A93		
	ILLINOIS	FED. AID PROJECT		



Pier 15 Elevation



View A - A



Pier 16 Elevation

LEGEND

= Structural Repair of Concrete (Depth Equal to or Less than 5")

S.F. = Square Feet

BILL OF MATERIAL

ITEM	UNIT	TOTAL
Structural Repair of Concrete (Depth Equal to or Less than 5")	SQ. FT.	695

(*) Peoria / Tazewell

QUIGG ENGINEERING INC

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PLOT DATE = 10/05/2015	CHECKED - DRB	REVISED

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PIER 15 & PIER 16 REPAIR DETAILS
S.N. 090-0030 CEDAR STREET BRIDGE OVER ILLINOIS RIVER
SHEET NO. 103 OF 112 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
669	(103B)I-7	(*)	180	171
		CONTRACT NO. 68A93		
	ILLINOIS FED. AID PROJECT			

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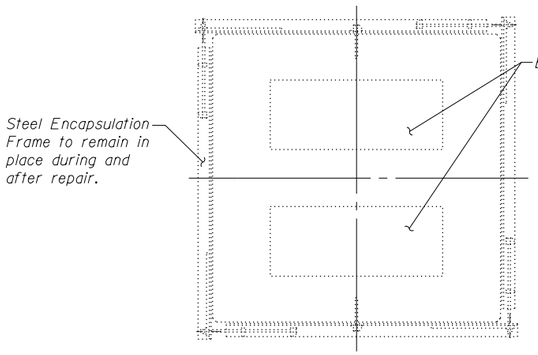
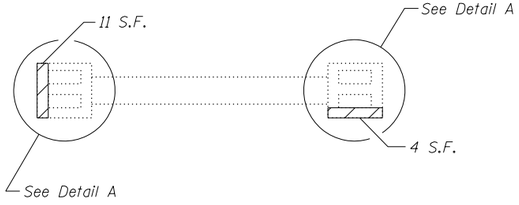
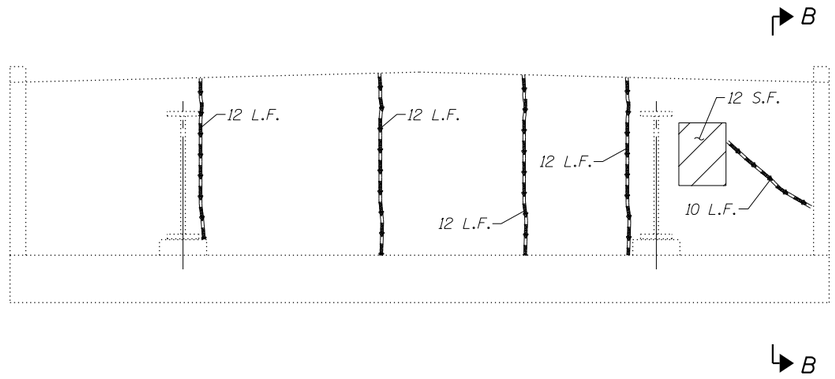


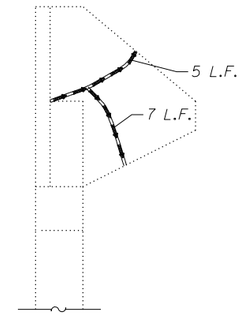
Detail A
Typical at Brg Seats - Pier 19



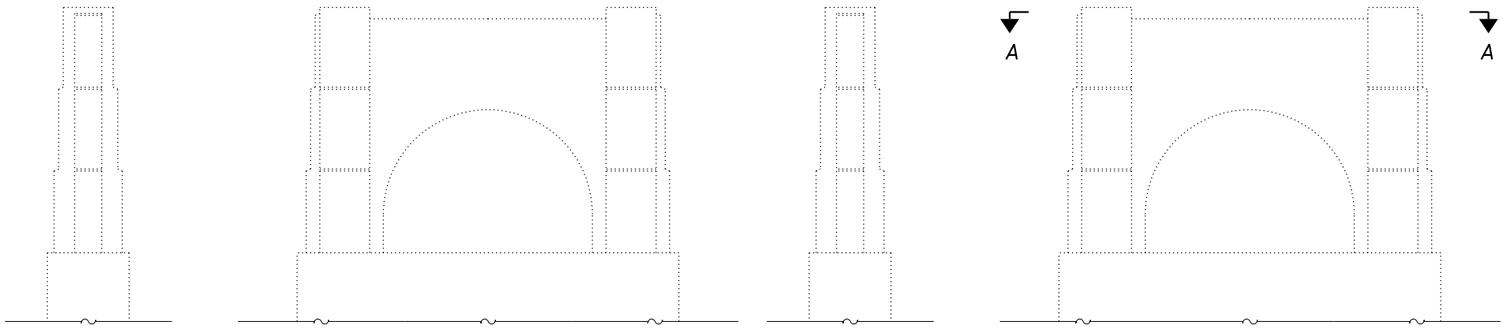
View A-A



East Abutment
Looking East



View B-B
Looking South



North End | West Face | South End | East Face

Pier 19 Elevation

LEGEND

= Epoxy Crack Injection

= Structural Repair of Concrete (Depth Equal to or Less than 5")

S.F. = Square Feet

L.F. = Linear Feet

BILL OF MATERIAL

ITEM	UNIT	TOTAL
Epoxy Crack Injection	FOOT	70
Structural Repair of Concrete (Depth Equal to or Less than 5")	SQ. FT.	27

(•) Peoria / Tazewell

QUIGG ENGINEERING INC

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PLOT DATE = 10/05/2015	CHECKED - DRB	REVISED

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PIER 19 & EAST ABUTMENT REPAIR DETAILS
S.N. 090-0030 CEDAR STREET BRIDGE OVER ILLINOIS RIVER
SHEET NO. 104 OF 112 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
669	(103B)I-7	(•)	180	172
		CONTRACT NO. 68A93		
	ILLINOIS FED. AID PROJECT			

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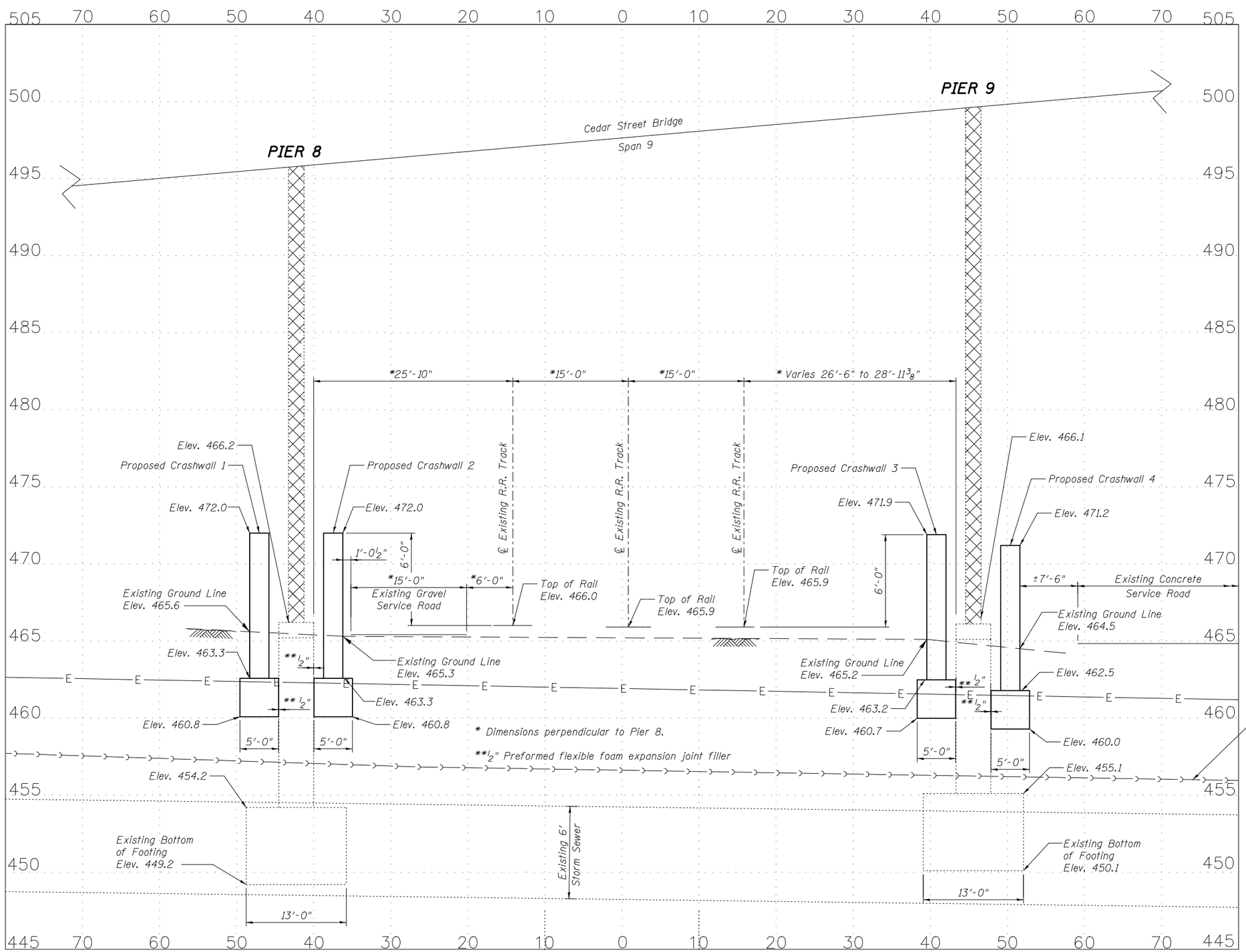

ELEVATION

(Looking North)

Location of 8" water main and fiber optic lines (southwest) and 27" sanitary sewer (northeast) unknown.

Notes:

Existing storm sewer and underground electric duct locations shown are approximate.

Provide traffic control and protection in accordance with Highway Standards 701006 and 701501 as required by the Engineer.

Temporary shoring may be required in accordance with Tazewell and Peoria Railroad requirements. The Contractor shall coordinate with the Railroad regarding shoring requirements. Coordination documentation shall be provided to the Engineer. If required, the Contractor shall submit temporary shoring design calculations and plan details to the Railroad and the Engineer for review and approval prior to performing the structure excavation. Cost for temporary shoring shall be included with Structure Excavation.

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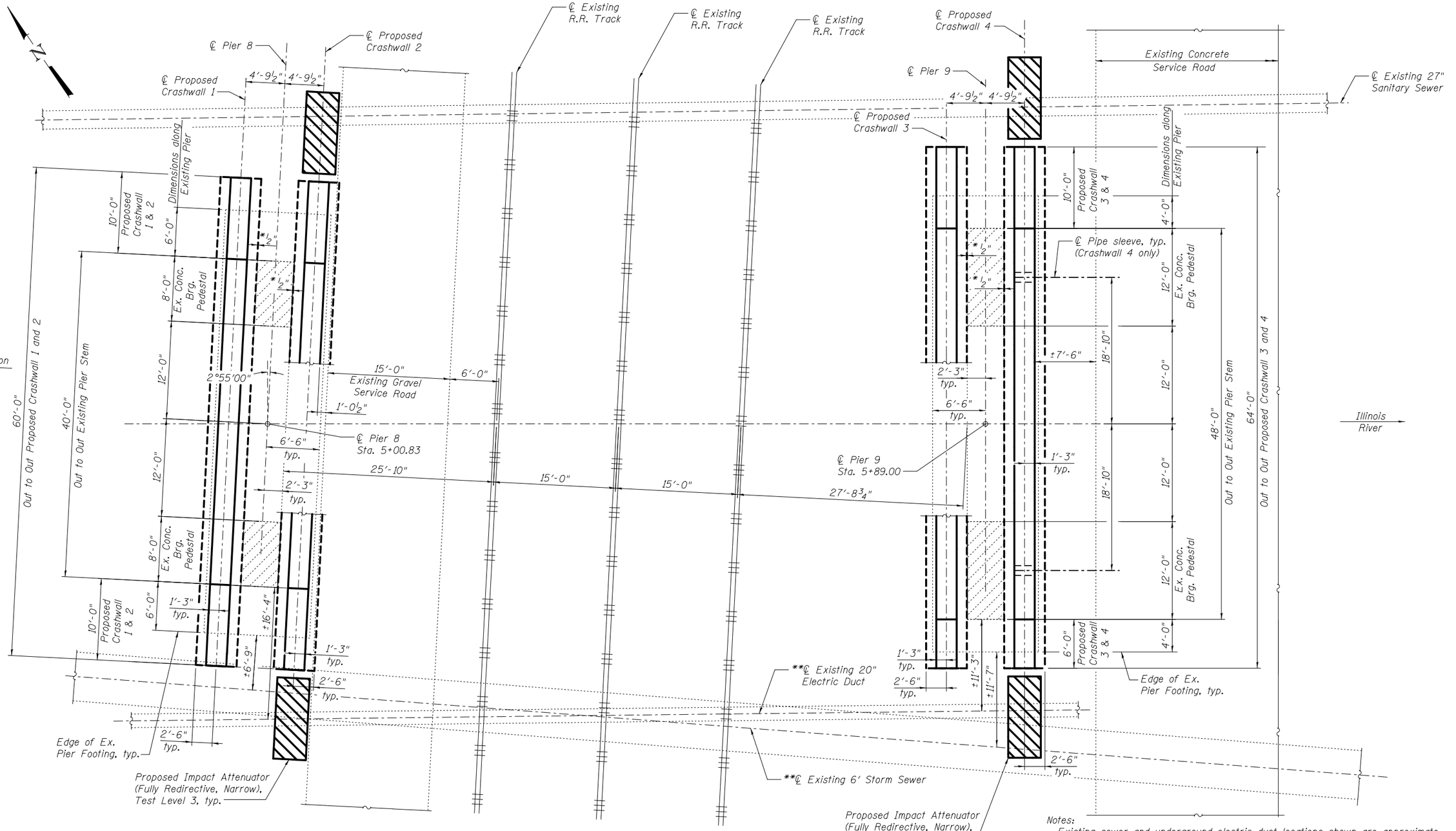
USER NAME =	DESIGNED - ZWV	REVISED
	CHECKED - RLM	REVISED
PLOT SCALE =	DRAWN - AEC	REVISED
PLOT DATE = 10/05/2015	CHECKED - RLM	REVISED

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

CRASHWALL ELEVATION
S.N. 090-0030 CEDAR STREET BRIDGE OVER ILLINOIS RIVER
SHEET NO. 105 OF 112 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
669	(103B)I-7	PEORIA/TAZEWELL	180	173
		CONTRACT NO. 68A93		
	ILLINOIS FED. AID PROJECT			



PLAN

* 1/2" x 2'-6" Preformed flexible foam expansion joint filler installed at the interface between the existing pier stem and the proposed crashwall footing.

** Additional utilities noted along the southwest side of Piers 8 and 9 include an 8" water main and fiber optic lines. Exact locations are unknown.

Notes:

Existing sewer and underground electric duct locations shown are approximate. Exact locations and depths of all utilities should be verified prior to construction and caution used for construction in proximity of the utilities.

Preformed flexible foam expansion joint filler shall be according to Section 1051.09 of the Standard Specifications and shall be paid for at the contract unit price per foot for Preformed Joint Filler.

Provide traffic control and protection in accordance with Highway Standards 701006 and 701501 as required by the Engineer.

The Contractor shall return the existing service roads to their original condition after the crashwalls are constructed. Cost included with Concrete Structures.

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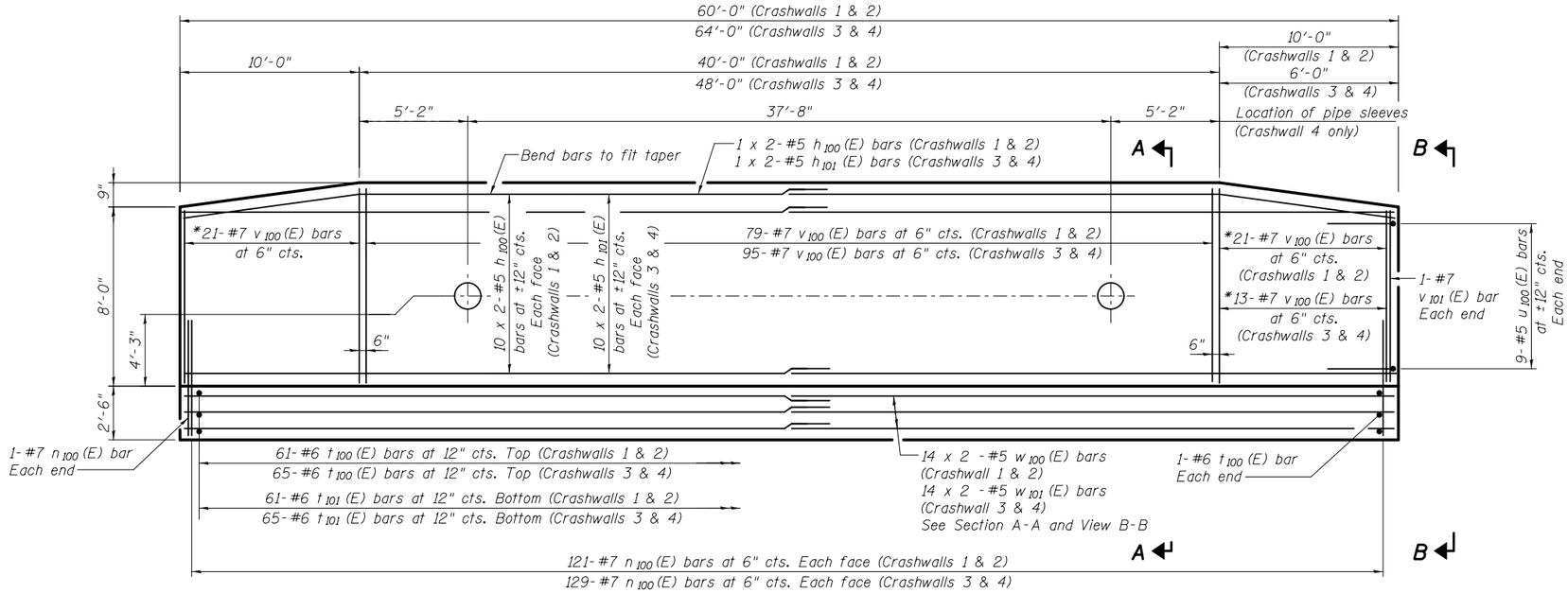
USER NAME =	DESIGNED - ZWV	REVISED
	CHECKED - RLM	REVISED
PLOT SCALE =	DRAWN - AEC	REVISED
PLOT DATE = 10/05/2015	CHECKED - RLM	REVISED

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

CRASHWALL PLAN
S.N. 090-0030 CEDAR STREET BRIDGE OVER ILLINOIS RIVER
SHEET NO. 106 OF 112 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
669	(103B)I-7	PEORIA/TAZEWELL	180	174
		CONTRACT NO. 68A93		
	ILLINOIS FED. AID PROJECT			



ELEVATION

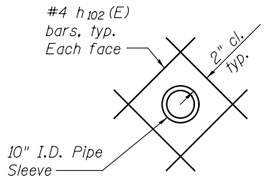
* Field cut to fit

CRASHWALLS 1 & 2 BILL OF MATERIAL

Bar	No.	Size	Length	Shape
h_{100} (E)	84	#5	31'-8"	
n_{100} (E)	488	#7	7'-7"	
t_{100} (E)	126	#6	4'-8"	
t_{101} (E)	122	#6	8'-10"	
u_{100} (E)	36	#5	9'-6"	
v_{100} (E)	242	#7	18'-10"	
v_{101} (E)	4	#7	7'-8"	
w_{100} (E)	56	#5	31'-8"	
Structure Excavation		Cu. Yd.	172	
Concrete Structures		Cu. Yd.	154.2	
Reinforcement Bars, Epoxy Coated		Pound	24,430	
Impact Attenuator (Fully Redirective, Narrow), Test Level 3		Each	2	
Preformed Joint Filler		Foot	80	

CRASHWALLS 3 & 4 BILL OF MATERIAL

Bar	No.	Size	Length	Shape
h_{101} (E)	84	#5	33'-8"	
h_{102} (E)	16	#4	2'-0"	
n_{100} (E)	520	#7	7'-7"	
t_{100} (E)	134	#6	4'-8"	
t_{101} (E)	130	#6	8'-10"	
u_{100} (E)	36	#5	9'-6"	
v_{100} (E)	258	#7	18'-10"	
v_{101} (E)	4	#7	7'-8"	
w_{101} (E)	56	#5	33'-8"	
Structure Excavation		Cu. Yd.	173	
Concrete Structures		Cu. Yd.	161.8	
Reinforcement Bars, Epoxy Coated		Pound	26,020	
Impact Attenuators (Fully Redirective, Narrow), Test Level 3		Each	2	
Preformed Joint Filler		Foot	96	



PIPE SLEEVE DETAIL

(Crashwall 4 only)

BAR n_{100} (E)

BAR t_{101} (E)

BAR u_{100} (E)

BAR v_{100} (E)

MINIMUM BAR LAP

#5 bar = 3'-8"

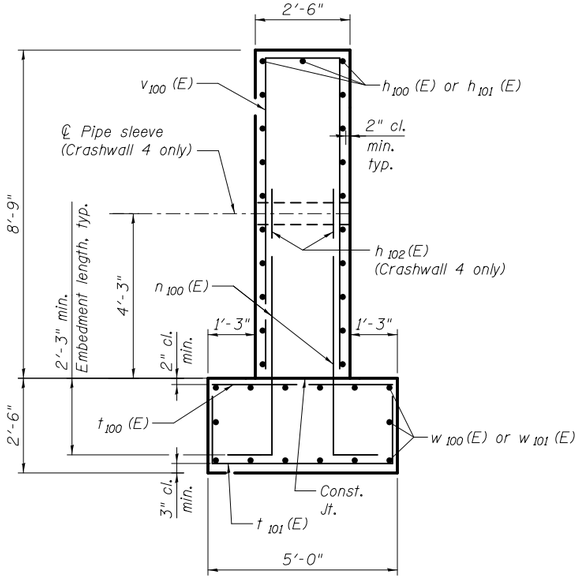
Notes:

Bars indicated thus 10x2-#5 etc. indicates 10 lines of bars with 2 lengths per line.

Contractor may combine v_{100} (E) bars or v_{101} (E) bars with n_{100} (E) bars to eliminate lap. Combined bars shall be fabricated to accommodate end taper.

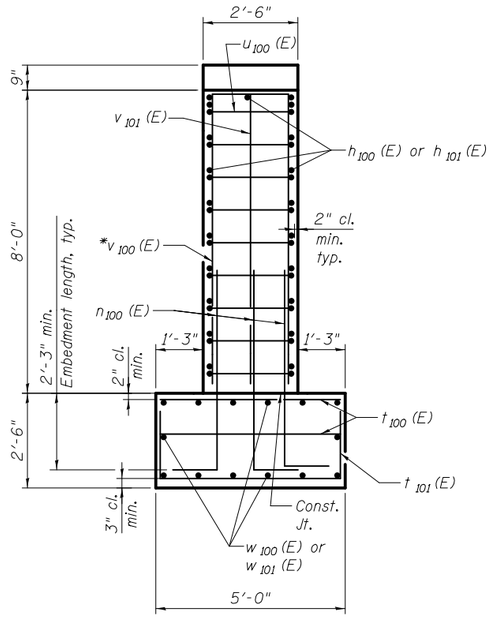
Install pipe sleeves at Crashwall 4 to accommodate drainage system repairs in Span 9. See Sheet 109 of 112 for drainage system details.

The pipe sleeve shall be reinforced fiberglass according to ASTM D 2996 RTRP. Cost included with Concrete Structures.



SECTION A-A

Adjust horizontal and vertical bars to provide 2" minimum clearance around pipe sleeves.



VIEW B-B

USER NAME =	DESIGNED - ZWV	REVISED
	CHECKED - RLM	REVISED
PLOT SCALE =	DRAWN - AEC	REVISED
PLOT DATE = 10/05/2015	CHECKED - RLM	REVISED

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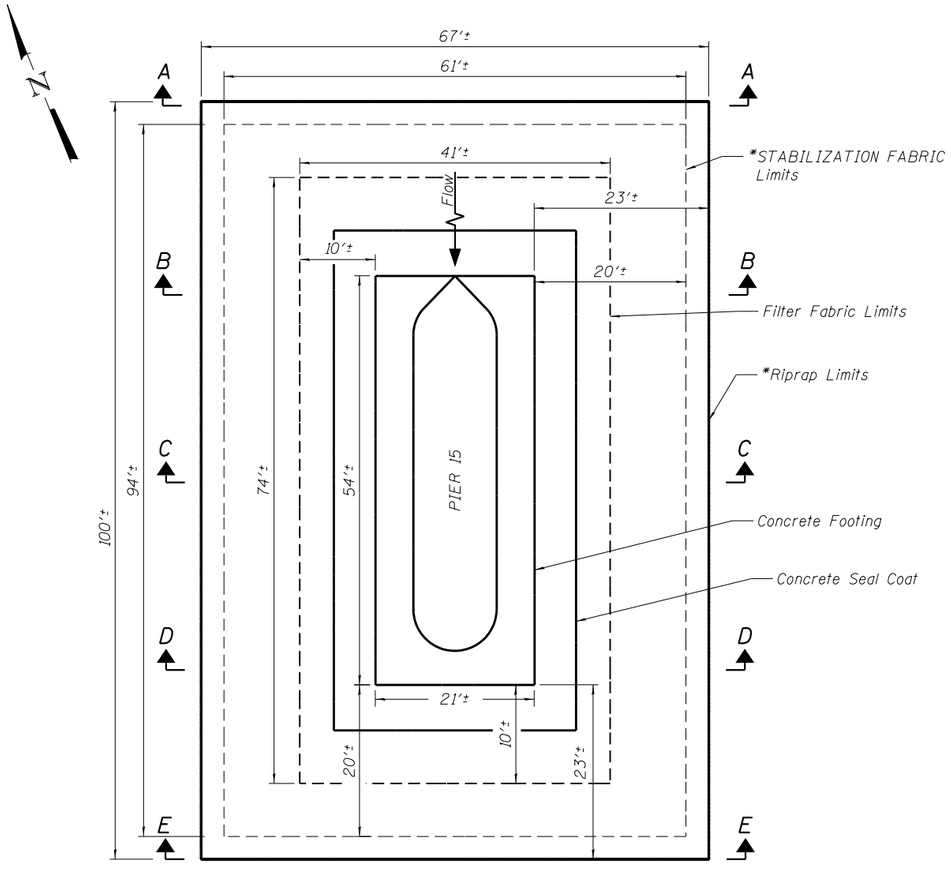
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

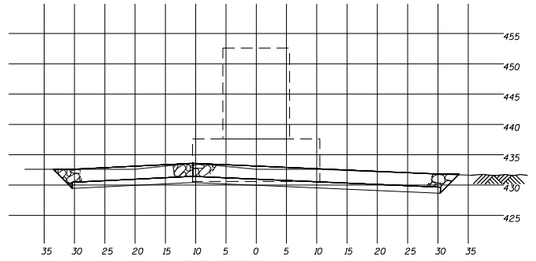
CRASHWALL DETAILS
S.N. 090-0030 CEDAR STREET BRIDGE OVER ILLINOIS RIVER
SHEET NO. 107 OF 112 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
669	(103B)I-7	PEORIA/TAZEWELL	180	175
		CONTRACT NO. 68A93		
	ILLINOIS FED. AID PROJECT			

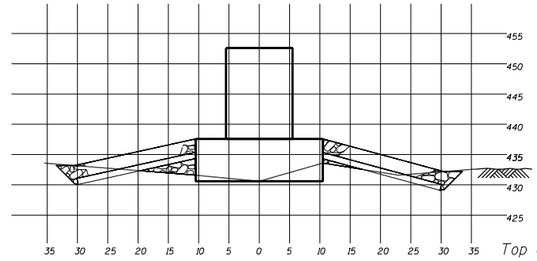


PLAN VIEW

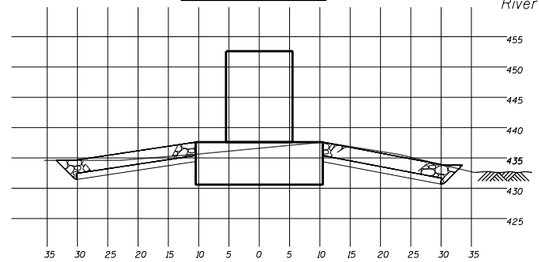
*Riprap & Stabilization Fabric to be centered around Pier



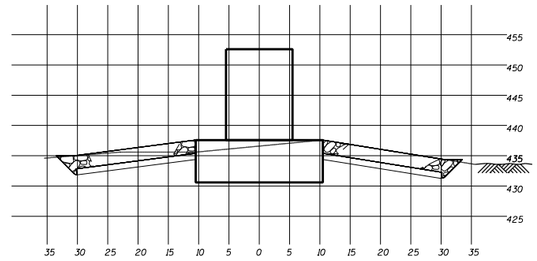
SECTION A-A



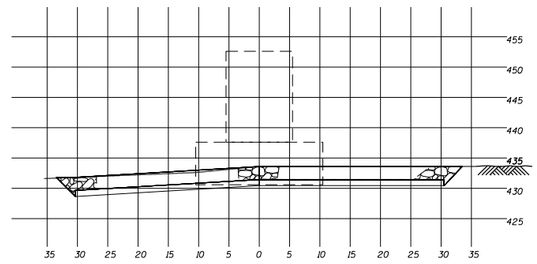
SECTION B-B



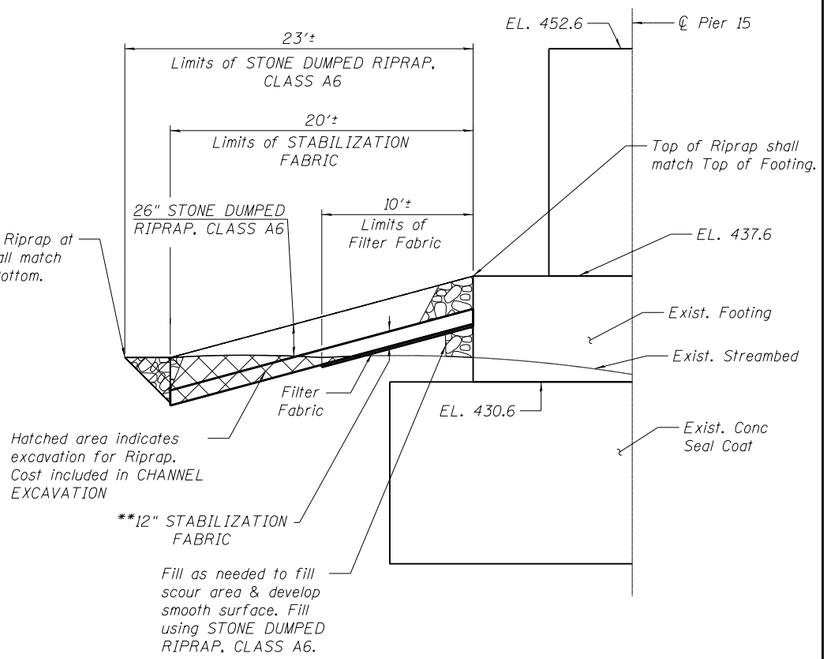
SECTION C-C



SECTION D-D

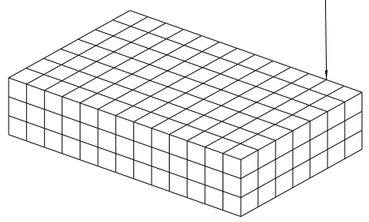


SECTION E-E



TYPICAL SECTION-PIER 15

Structural Geogrid Baskets for Bedding Stone. To be sized and designed by supplier to ensure accurate placement and stability. Shop drawings to be submitted prior to fabrication for IDOT approval.



GEOGRID BASKET / STABILIZATION FABRIC

PIER 15
BILL OF MATERIAL

Item	Unit	Quantity
Channel Excavation	CU YD	439
Stone Dumped Riprap, Class A6	TON	835
Stabilization Fabric	TON	511

**FILTER MATTRESS shall be in accordance with the Special Provision for STABILIZATION FABRIC.

(•) Peoria / Tazewell

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QUIGG ENGINEERING INC

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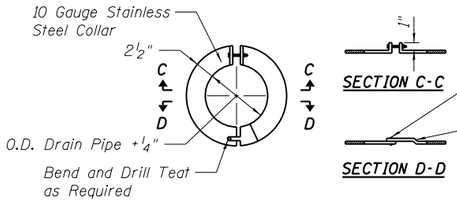
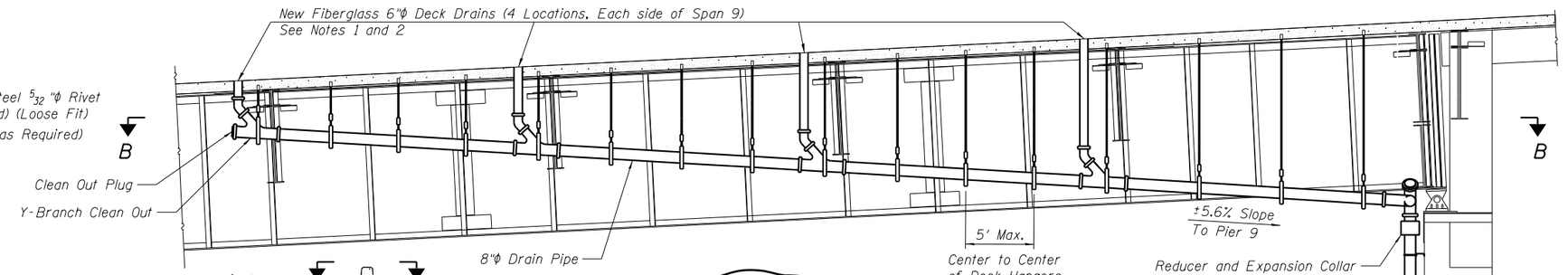
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

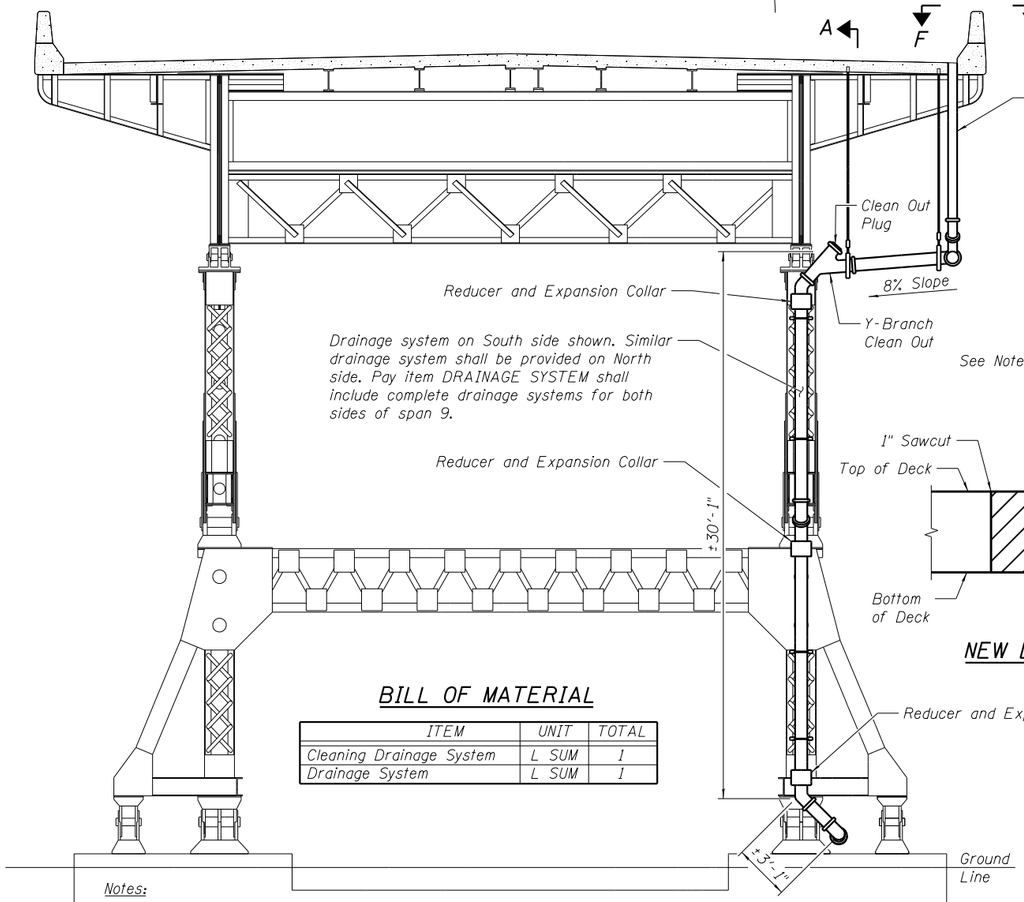
PIER 15 SCOUR MITIGATION
S.N. 090-0030 CEDAR STREET BRIDGE OVER ILLINOIS RIVER
SHEET NO. 108 OF 112 SHEETS

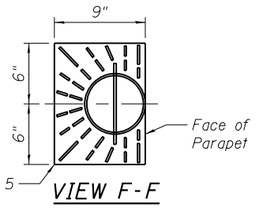
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
669	(103B)I-7	(•)	180	176
		CONTRACT NO. 68A93		
	ILLINOIS FED. AID PROJECT			



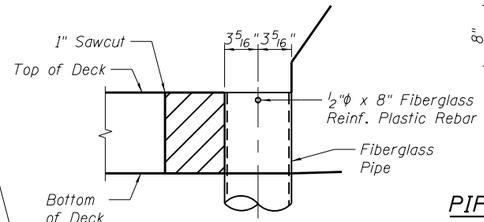
EXPANSION COLLAR DETAILS



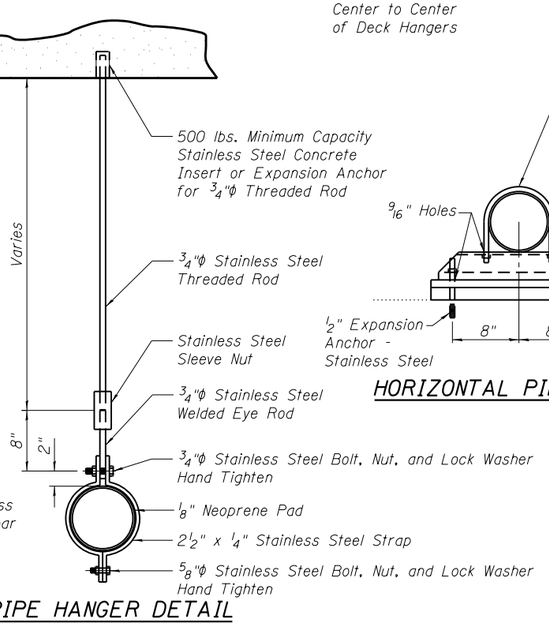




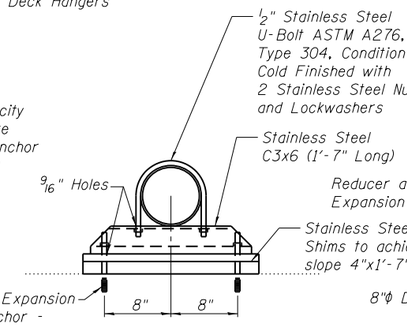
VIEW F-F



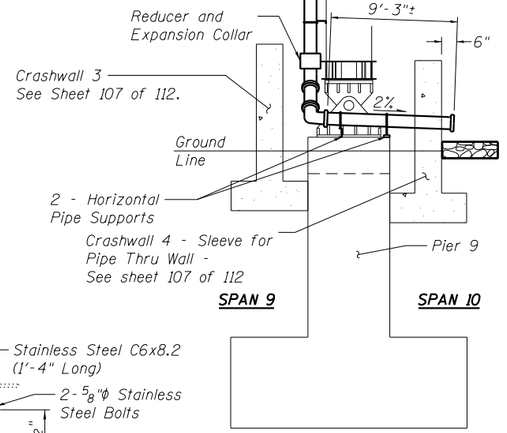
NEW DECK DRAIN



PIPE HANGER DETAIL



HORIZONTAL PIPE SUPPORT



SECTION A-A

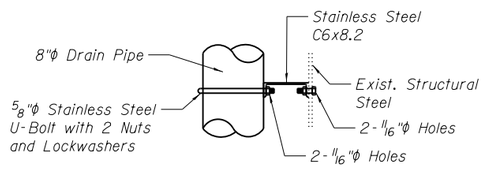
BILL OF MATERIAL

ITEM	UNIT	TOTAL
Cleaning Drainage System	L SUM	1
Drainage System	L SUM	1

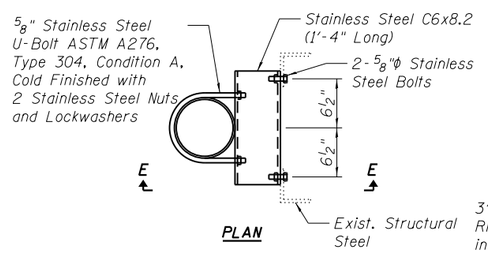
Notes:

1. Existing Deck Drains have been plugged with concrete. Contractor shall replace Deck Drains. Cost included in DRAINAGE SYSTEM.
2. New 6"φ downspouts shall be incorporated into new drainage system. Cost included in DRAINAGE SYSTEM.
3. The entire bridge deck drainage system including scuppers, drain piping, and finger plate joint drainage shall be cleaned. Cost included in CLEANING DRAINAGE SYSTEM. See Special Provisions.
4. All dimensions are approximate, Contractor should verify all dimensions before ordering materials.
5. Sawcut 1" all around. Remove Deck Concrete full depth. Install new fiberglass deck drain. Fill deck hole with concrete material used for Deck Slab Repair. Replacing Deck Drains shall not be paid for seperately, but shall be included in the price for DRAINAGE SYSTEM.

PIER 9 NORTHWEST FACE A

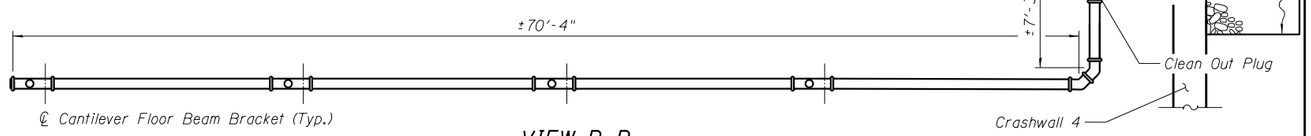


SECTION E-E



PLAN

VERTICAL DRAIN PIPE SUPPORT DETAILS



VIEW B-B

(Typical Each Side Span 9)

(•) Peoria / Tazewell

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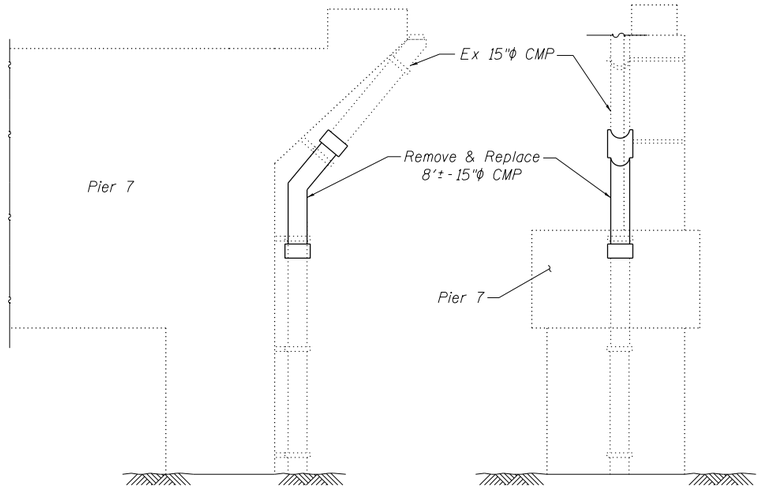
QUIGG ENGINEERING INC

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

DRAINAGE SYSTEM REPAIR – SPAN 9
S.N. 090–0030 CEDAR STREET BRIDGE OVER ILLINOIS RIVER
SHEET NO. 109 OF 112 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
669	(103B)I-7	(•)	180	177
		CONTRACT NO. 68A93		
	ILLINOIS FED. AID PROJECT			

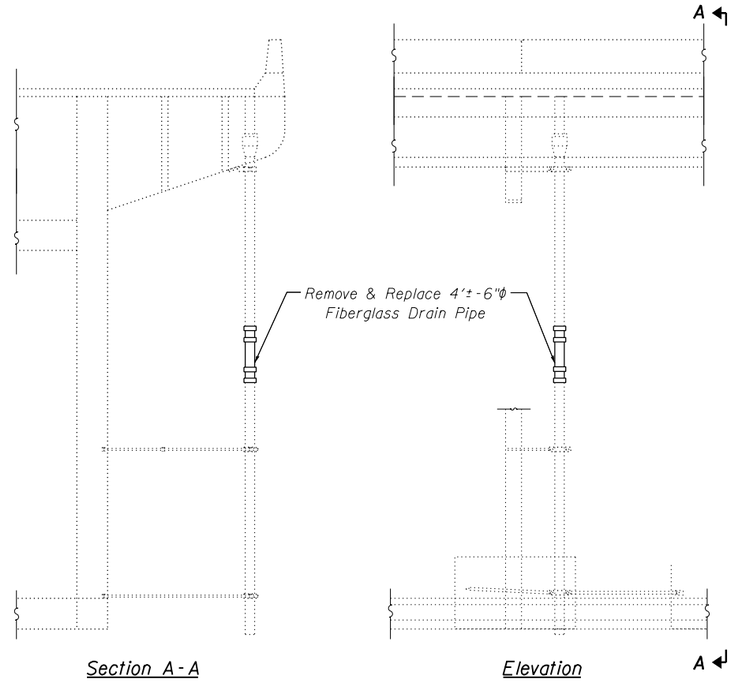


East Face
(Looking West)

North End
(Looking South)

BROKEN DRAIN PIPE @ PIER 7

(N. End of Pier 7 = 1)

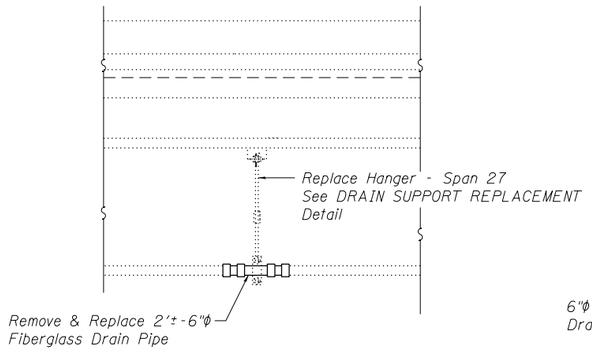


Section A - A

Elevation

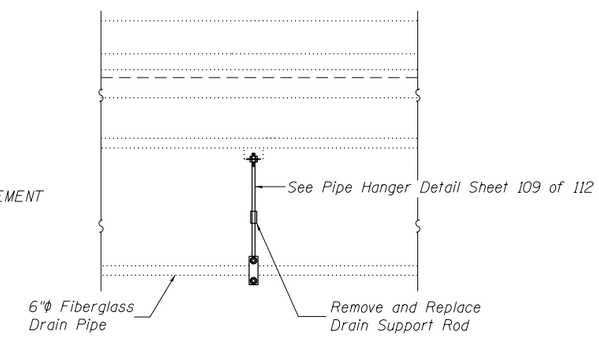
BROKEN DRAIN PIPE

(Span 15, 2' from U8' South = 1)
(Span 14, @ U6 North = 1)



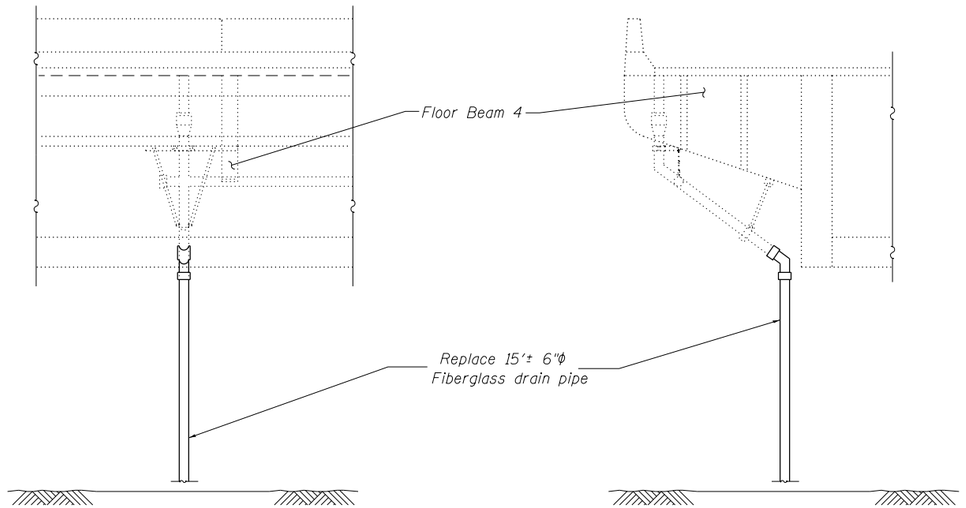
CRACKED DRAIN PIPE

(Span 24 under S. Girder between Floor Beam 0&1 = 1)
(Span 27, S. Girder @ Floor Beam 4 = 1)
(Span 34, @ Floor Beam 2 near South Cantilever Bracket = 1)



DRAIN SUPPORT REPLACEMENT

(Span 17, 5' West of L6N = 1)
(Span 27, S. Girder @ Floor Beam 4 = 1)
(Span 31 N. Drain System 3rd Support Hanger from E. End = 1)



North Side
(Looking South)

North Side
(Looking East)

BILL OF MATERIAL

ITEM	UNIT	TOTAL
Bridge Drainage System Repair	EACH	10

Note:
Contractor shall protect and re-use existing pipe hangers and supports, unless noted on plans or approved by Engineer.

REPLACE EXTENSION ON DRAIN PIPE @ SPAN 34

(Span 34 N. Side 1st Drain W. of E. Abutment = 1)

(*) Peoria / Tazewell

FILE NAME = S:\Projects\2015 JOBS\15IL004-00 QEI PTB 168-17 04 Cedar St Bridge\CADD\CADD Sheets\0900030-68A93-178-DrainPipeRepair.dgn
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QUIGG ENGINEERING INC

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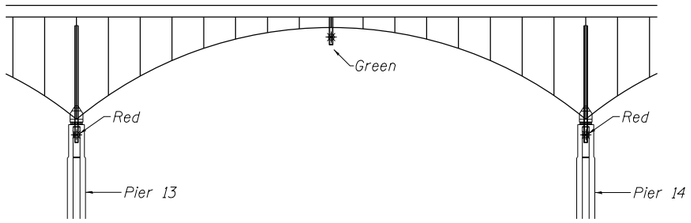
PLOT DATE = 10/05/2015	CHECKED - DRB	REVISED

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

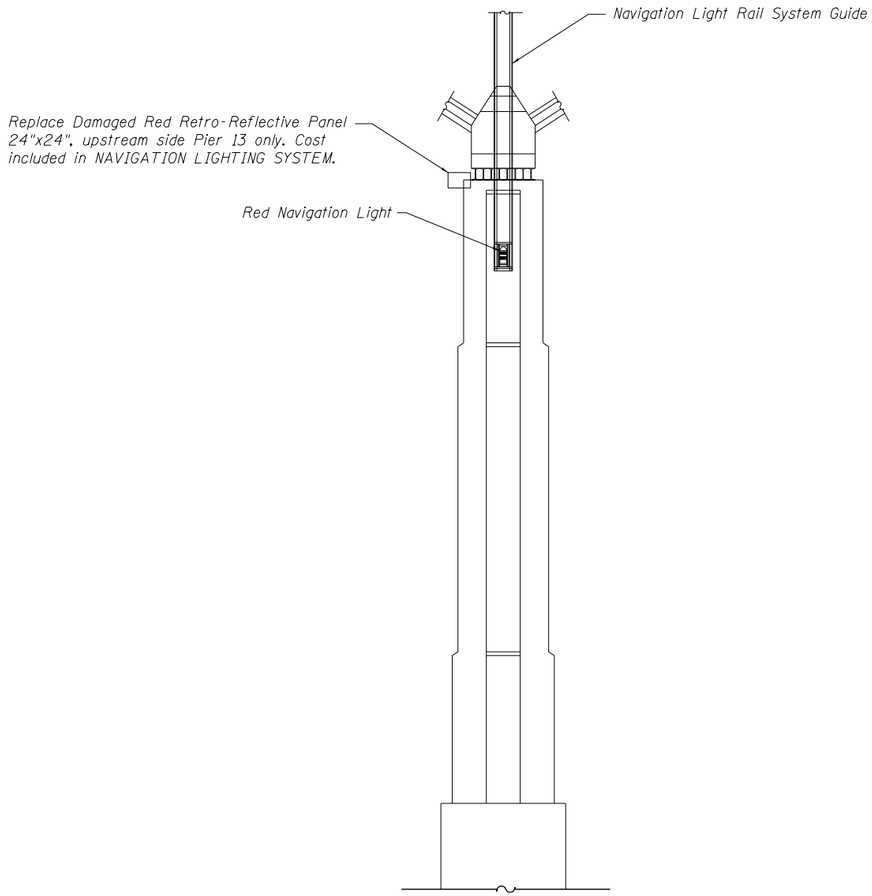
DRAINAGE SYSTEM REPAIRS
S.N. 090-0030 CEDAR STREET BRIDGE OVER ILLINOIS RIVER
SHEET NO. 110 OF 112 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
669	(103B)I-7	(*)	180	178
		CONTRACT NO. 68A93		
	ILLINOIS	FED. AID PROJECT		

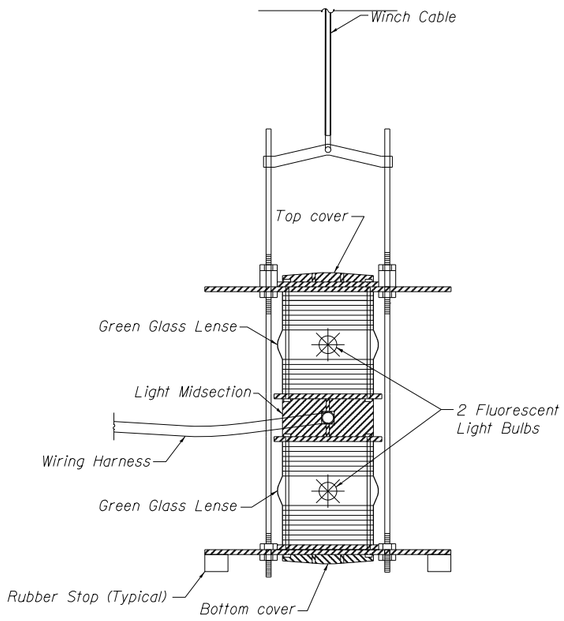


NAVIGATIONAL LIGHTS LOCATION

South Elev. Looking North-Shown
North Elevation Similar

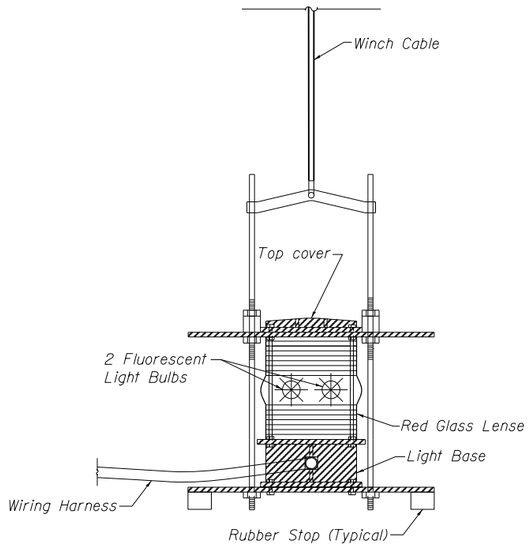


NAVIGATIONAL LIGHT



GREEN NAVIGATIONAL LIGHT AT MID-SPAN

Typical- 2 Locations



RED NAVIGATIONAL LIGHT AT PIERS

Typical- 4 Locations

BILL OF MATERIAL

ITEM	UNIT	TOTAL
Navigation Lighting System	L. SUM	1

Note:
Refurbish Navigational Lighting as needed. See Special Provision.
Cost included in NAVIGATION LIGHTING SYSTEM.

(•) Peoria / Tazewell

QUIGG ENGINEERING INC

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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

NAVIGATION LIGHT REPAIRS
S.N. 090-0030 CEDAR STREET BRIDGE OVER ILLINOIS RIVER
SHEET NO. 111 OF 112 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
669	(103B)I-7	(•)	180	179
		CONTRACT NO. 68A93		
	ILLINOIS FED. AID PROJECT			

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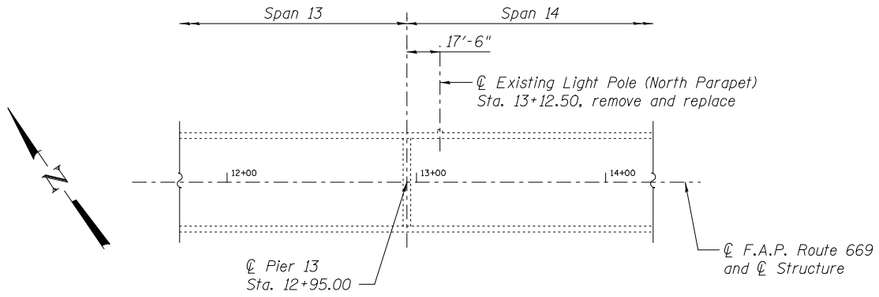
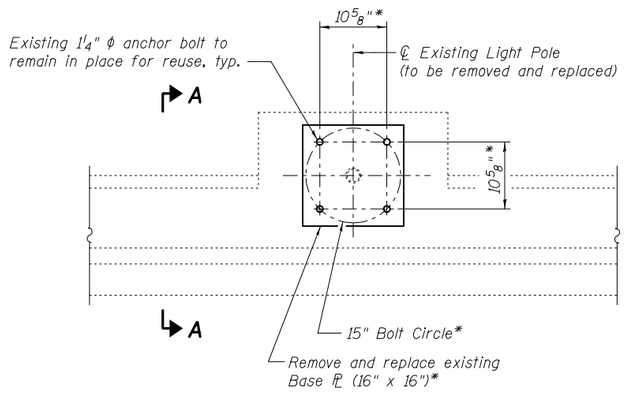
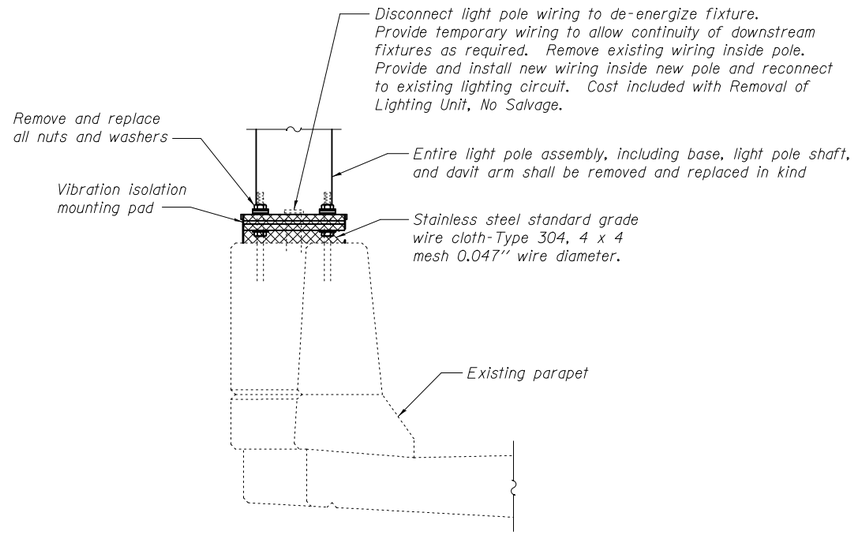


PARTIAL PLAN
EXISTING LIGHT POLE REPLACEMENT



TOP VIEW

* Contractor shall field verify dimensions



SECTION A-A

Notes:

Existing luminaire shall be removed and replaced with a new LED luminaire. See Sheets L1 to L7 for more details.

Pole lower shaft and base shall be sized according to 45 foot mounting height requirements. Contractor shall verify mounting height in field.

New light pole assembly shall be in accordance with IDOT Highway Standard No. 830006-03 Light Pole Aluminum Davit Arm and Section 830 of the Standard Specifications.

Apply ASTM A780 (galvanized finish) approved paint to exposed surface of corroded existing anchor bolts.

Remove and store existing roadway signs attached to pole and reinstall on new light pole.

Work on this sheet to be completed in coordination with lighting repairs shown on Sheets L1 to L7.

LIGHT POLE REPLACEMENT DETAIL

BILL OF MATERIAL

ITEM	UNIT	TOTAL
Light Pole, Aluminum, 45 Ft. M.H., 6 Ft. Davit Arm	Each	1
Removal of Lighting Unit, No Salvage	Each	1

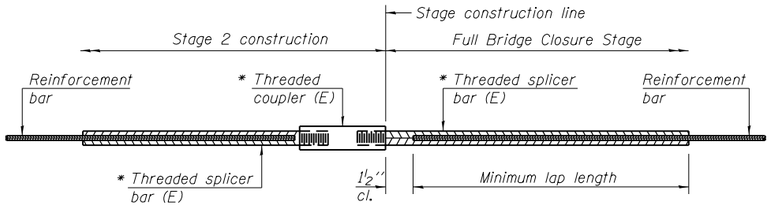
MODJESKI and MASTERS
Experience great bridges.

USER NAME =	DESIGNED - KMG	REVISED
	CHECKED - JGS	REVISED
PLOT SCALE =	DRAWN - PRC	REVISED
PLOT DATE = 10/05/2015	CHECKED - RLM	REVISED

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

LIGHT POLE REPLACEMENT DETAILS
S.N. 090-0030 CEDAR STREET BRIDGE OVER ILLINOIS RIVER
SHEET NO. 111A OF 112 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
669	(103B)I-7	PEORIA/TAZEWELL	180	179A
			CONTRACT NO. 68A93	
		ILLINOIS	FED. AID PROJECT	

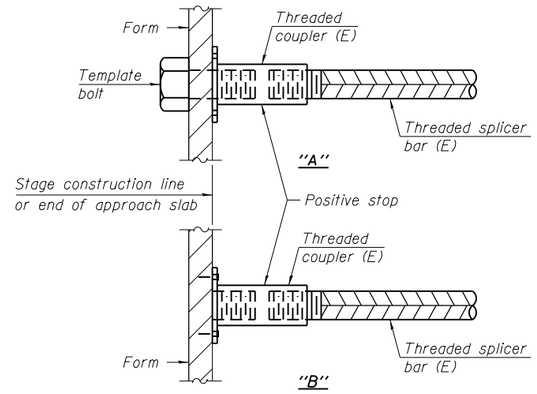


STANDARD BAR SPLICER ASSEMBLY

Threaded splicer bar length = min. lap length + 1½" + thread length

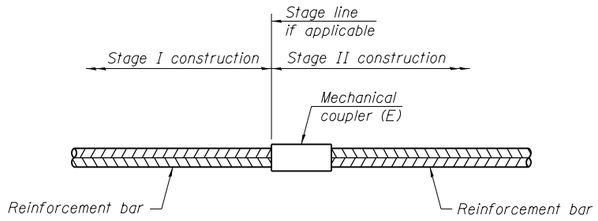
* Epoxy not required on Bar Splicer Assembly components used in conjunction with black bars.

Location	Bar size	No. assemblies required	Minimum lap length
W. Abut Slab	#5	47	3'-6"
W. Abut Slab	#7	71	4'-11"
Slab at West Abutment	#5	4	3'-6"
Slab at Pier 2	#5	8	3'-6"
Slab at Pier 4	#5	8	3'-6"
Slab at Pier 5	#5	8	3'-6"
Slab at Pier 8	#5	4	3'-6"
Slab at Pier 9	#5	4	3'-6"
Slab at Pier 10	#5	4	3'-6"
Slab at Pier 11	#5	4	3'-6"
Slab at Pier 12	#5	4	3'-6"
Slab at Midspan 14	#5	18	3'-6"
Slab at Pier 15	#5	4	3'-6"
Slab at Pier 16	#5	4	3'-6"
Slab at Pier 17	#5	4	3'-6"
Slab at Pier 19	#5	4	3'-6"
Slab at Pier 20	#5	4	3'-6"
Slab at Pier 22	#5	4	3'-6"
Slab at Pier 24	#5	4	3'-6"
Slab at Pier 26	#5	4	3'-6"
Slab at Pier 27	#5	4	3'-6"
Slab at Pier 29	#5	4	3'-6"
Slab at Pier 31	#5	4	3'-6"
Slab at Pier 33	#5	4	3'-6"
Slab at East Abutment	#5	4	3'-6"
	Total	236	



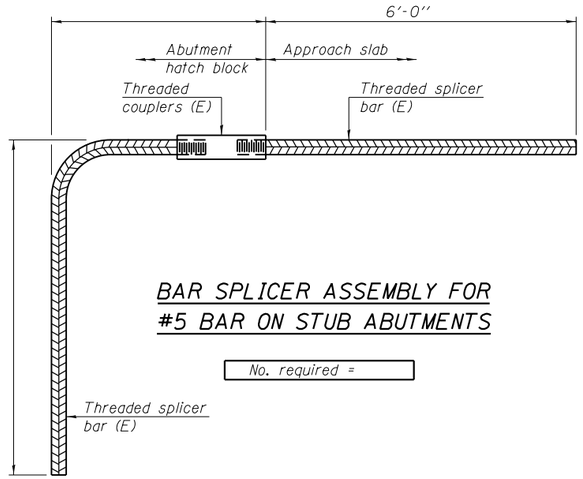
INSTALLATION AND SETTING METHODS

"A" : Set bar splicer assembly by means of a template bolt.
"B" : Set bar splicer assembly by nailing to wood forms or cementing to steel forms.
(E) : Indicates epoxy coating.



STANDARD MECHANICAL SPLICER

Location	Bar size	No. assemblies required



BAR SPLICER ASSEMBLY FOR #5 BAR ON STUB ABUTMENTS

No. required =

NOTES

Splicer bars shall be deformed with threaded ends and have a minimum 60 ksi yield strength.

All reinforcement shall be lapped and tied to the splicer bars.

Bar splicer assemblies shall be epoxy coated according to the requirements for reinforcement bars. See Section 508 of the Standard Specifications.

See approved list of bar splicer assemblies and mechanical splicers for alternatives.

BSD-1

6-8-15

(•) Peoria / Tazewell

QUIGG ENGINEERING INC

USER NAME = rgoertz	DESIGNED - DRB	REVISED
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PLOT DATE = 10/05/2015	CHECKED - DRB	REVISED

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

BAR SPLICER DETAILS (BASE SHEET)
S.N. 090-0030 CEDAR STREET BRIDGE OVER ILLINOIS RIVER
SHEET NO. 112 OF 112 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
669	(103B)I-7	(•)	180	180
		CONTRACT NO. 68A93		
	ILLINOIS FED. AID PROJECT			

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MODEL = Model
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GENERAL NOTES:

1. LEVELING PLATES FOR BRIDGE MOUNTED LIGHT POLES SHALL BE ACCORDING TO THE PLANS AND SHALL BE GALVANIZED STEEL. IF ANCHOR BOLTS ARE TOO SHORT TO ACCOMMODATE LEVELING PLATES AND ISOLATION PADS THEN REINSTALL POLES ON AN ANCHOR BASE AS SHOWN ON THE PLANS AND AS DIRECTED BY THE ENGINEER.

2. ONCE POLES ARE REMOVED, THE GROUT SHALL BE REMOVED FROM ANCHOR BOLTS. BOLTS SHALL BE CLEANED, WIRE BRUSHED, AND PAINTED WITH GALVANOX. REINSTALLED POLES SHALL NOT BE GROUTED AND THE OPENING SHALL BE SEALED WITH STAINLESS STEEL SCREEN OR PERFORATED ALUMINUM SCREEN.

3. ANCHOR BOLTS FOUND TO BE BADLY CORRODED SHALL BE CUT OFF AND REPLACED AS DIRECTED BY THE ENGINEER. CONCRETE SHALL BE REMOVED TO SUFFICIENT DEPTH TO ALLOW COUPLING NUTS TO BE FULLY ENCASED IN NEW CONCRETE WITH A 3 INCH MINIMUM COVER. COUPLING NUTS, BOLT EXTENSIONS, AND NEW CONCRETE SHALL BE ADDED. THIS WORK SHALL BE PAID FOR BY AN AGREED UNIT PRICE FOR REPLACEMENT OF CORRODED ANCHOR BOLTS.

4. THE CONTRACTOR SHALL REMOVE AND DISPOSE OF THE EXISTING LUMINAIRES IN ACCORDANCE WITH THE MANUFACTURER'S INSTRUCTIONS AND ALL APPLICABLE EPA REGULATIONS.

5. THE CONTRACTOR SHALL DISCONNECT THE EXISTING ELECTRIC CABLE FROM LIGHT POLES AND REMOVE IT FROM THE CONDUIT ATTACHED TO OR EMBEDDED IN STRUCTURE BEFORE THE REMOVAL OF CONCRETE STRUCTURE. INSTALL TEMPORARY WIRING AS NEEDED TO KEEP THE ROADWAY LIGHTING SYSTEM OPERATIONAL DURING THE REPAIR AND REPLACEMENT OF THE PARAPET WALL SECTIONS. INSTALL NEW CONDUIT AS NEEDED AND SPLICE IT TO EXISTING CONDUIT IN A MANNER APPROVED BY THE ENGINEER. AFTER THE PARAPET WALL HAS BEEN REPLACED, THE CONTRACTOR SHALL REINSTALL THE CABLE, RECONNECT THE LIGHT POLES, AND PERFORM ALL WORK REQUIRED TO MAKE THE ROADWAY LIGHTING SYSTEM OPERATIONAL. ANY DAMAGE CAUSED BY THE REMOVAL AND REINSTALLATION OF THE CONDUCTOR SHALL BE REPAIRED TO THE SATISFACTION OF THE ENGINEER OR NEW CONDUCTOR SHALL BE INSTALLED AT THE CONTRACTOR'S EXPENSE. THE COST OF THIS WORK SHALL BE INCLUDED IN THE PRICE OF THE "RELOCATE EXISTING LIGHTING UNIT" PAY ITEM.

6. THE CONTRACTOR SHALL TAKE INSULATION RESISTANCE MEASUREMENTS OF THE EXISTING ROADWAY LIGHTING CIRCUITS BEFORE ANY MODIFICATIONS ARE MADE AND PROVIDE WRITTEN RESULTS TO THE ENGINEER. EXISTING CIRCUITS NOT TESTED AND PROPERLY DOCUMENTED SHALL BE SUBJECT TO THE INSULATION RESISTANCE REQUIREMENTS OF ARTICLE 801.13. AFTER THE PROPOSED ROADWAY LUMINAIRES ARE INSTALLED AND ALL NEEDED MODIFICATIONS ARE MADE, THE CONTRACTOR SHALL TAKE INSULATION RESISTANCE MEASUREMENTS ACCORDING TO ARTICLE 801.13 AND PROVIDE WRITTEN RESULTS TO THE ENGINEER. IF THE TEST RESULTS DO NOT MEET OR EXCEED THE ORIGINAL READINGS, THE CONTACTOR SHALL PROVIDE ALL MATERIALS AND LABOR REQUIRED TO BRING THE CIRCUITS BACK UP TO THAT LEVEL AT HIS OWN EXPENSE. THE COST OF THIS WORK SHALL BE INCLUDED IN THE "RELOCATE EXISTING LIGHTING UNIT" PAY ITEM.

7. THE CONTRACTOR SHALL NOTIFY THE UNITED STATES COAST GUARD SECTOR UPPER MISSISSIPPI RIVER TWO WEEKS PRIOR TO ANY PLANNED NAVIGATION LIGHTING OUTAGE.

8. PROPOSED NAVIGATION OBSTRUCTION WARNING LUMINAIRE LOCATIONS ARE BASED ON THE AS-BUILT PLANS. CONTRACTOR SHALL VERIFY EXACT LOCATIONS IN THE FIELD.

9. EXISTING NAVIGATION OBSTRUCTION WARNING LUMINAIRES AT THE LOCATIONS SHOWN ON THE AS-BUILT PLANS SHALL BE REMOVED AND REPLACED. SEE NAVIGATION LIGHTING SYSTEM SPECIAL PROVISION FOR MORE INFORMATION.

10. THE CONTRACTOR'S CONSTRUCTION SEQUENCING SHALL MINIMIZE OUTAGE DURATION OF THE EXISTING NAVIGATION LIGHTING. THE CONTRACTOR SHALL FURNISH AND INSTALL TEMPORARY CABLE AND TEMPORARY NAVIGATION LIGHTS AS NEEDED TO KEEP THE NAVIGATIONAL LIGHTING SYSTEM OPERATIONAL DURING THE REPAIR AND REPLACEMENT OF THE PARAPET WALL SECTIONS. AFTER THE PARAPET WALL HAS BEEN REPLACED, THE CONTRACTOR SHALL REINSTALL THE CABLE, RECONNECT THE LUMINAIRES, AND PERFORM ALL WORK REQUIRED TO MAKE THE NAVIGATIONAL LIGHTING SYSTEM OPERATIONAL. THE COST OF THIS WORK SHALL BE INCLUDED IN THE PRICE OF THE "NAVIGATION LIGHTING SYSTEM" PAY ITEM.

11. THE CONTRACTOR SHALL TAKE INSULATION RESISTANCE MEASUREMENTS OF THE EXISTING NAVIGATION LIGHTING CIRCUITS BEFORE ANY MODIFICATIONS ARE MADE AND PROVIDE WRITTEN RESULTS TO THE ENGINEER. EXISTING CIRCUITS NOT TESTED AND PROPERLY DOCUMENTED SHALL BE SUBJECT TO THE INSULATION RESISTANCE REQUIREMENTS OF ARTICLE 801.13. AFTER THE PROPOSED NAVIGATION LUMINAIRES ARE INSTALLED AND ALL NEEDED MODIFICATIONS ARE MADE, THE CONTRACTOR SHALL TAKE INSULATION RESISTANCE MEASUREMENTS ACCORDING TO ARTICLE 801.13 AND PROVIDE WRITTEN RESULTS TO THE ENGINEER. IF THE TEST RESULTS DO NOT MEET OR EXCEED THE ORIGINAL READINGS, THE CONTACTOR SHALL PROVIDE ALL MATERIALS AND LABOR REQUIRED TO BRING THE CIRCUITS BACK UP TO THAT LEVEL AT HIS OWN EXPENSE. THE COST OF THIS WORK SHALL BE INCLUDED IN THE "NAVIGATION LIGHTING SYSTEM" PAY ITEM.

12. THE COST OF REMOVAL AND REPLACEMENT OF LIGHT POLE FOUNDATIONS SHALL BE INCLUDED IN THE UNIT BID PRICE FOR "CONCRETE SUPERSTRUCTURE".

SCHEDULE OF QUANTITIES - LIGHTING

ITEM DESCRIPTION	UNIT	TOTAL QTY.
CONDUIT EMBEDDED IN STRUCTURE, 2" DIA., PVC	FOOT	420.0
LUMINAIRE, LED, HORIZONTAL MOUNT, MEDIUM WATTAGE	EACH	17.0
RELOCATE EXISTING LIGHTING UNIT	EACH	4.0
NAVIGATION LIGHTING SYSTEM	L SUM	1.0

LEGEND

- RL — EXISTING LIGHTING UNIT TO BE REMOVED AND REINSTALLED (REPLACE LUMINAIRE ON REINSTALLED POLE)
- RM — EXISTING LIGHTING UNIT TO REMAIN (REPLACE LUMINAIRE ON EXISTING POLE)
- G — PROPOSED NAVAGATIONAL OBSTRUCTION WARNING LUMINAIRE, 360 DEGREE GREEN CENTER CHANNEL, LED
- R — PROPOSED NAVAGATIONAL OBSTRUCTION WARNING LUMINAIRE, 180 DEGREE RED CHANNEL MARGIN, LED
- EXISTING JUNCTION BOX ATTACHED TO STRUCTURE

INDEX OF SHEETS

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	PLOT DATE = 12/1/2015	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

GENERAL NOTES, SCHEDULE, AND INDEX OF SHEETS
CEDAR STREET BRIDGE LIGHTING

SCALE: N.T.S. | SHEET 1 OF 1 SHEETS | STA. _____ | TO STA. _____

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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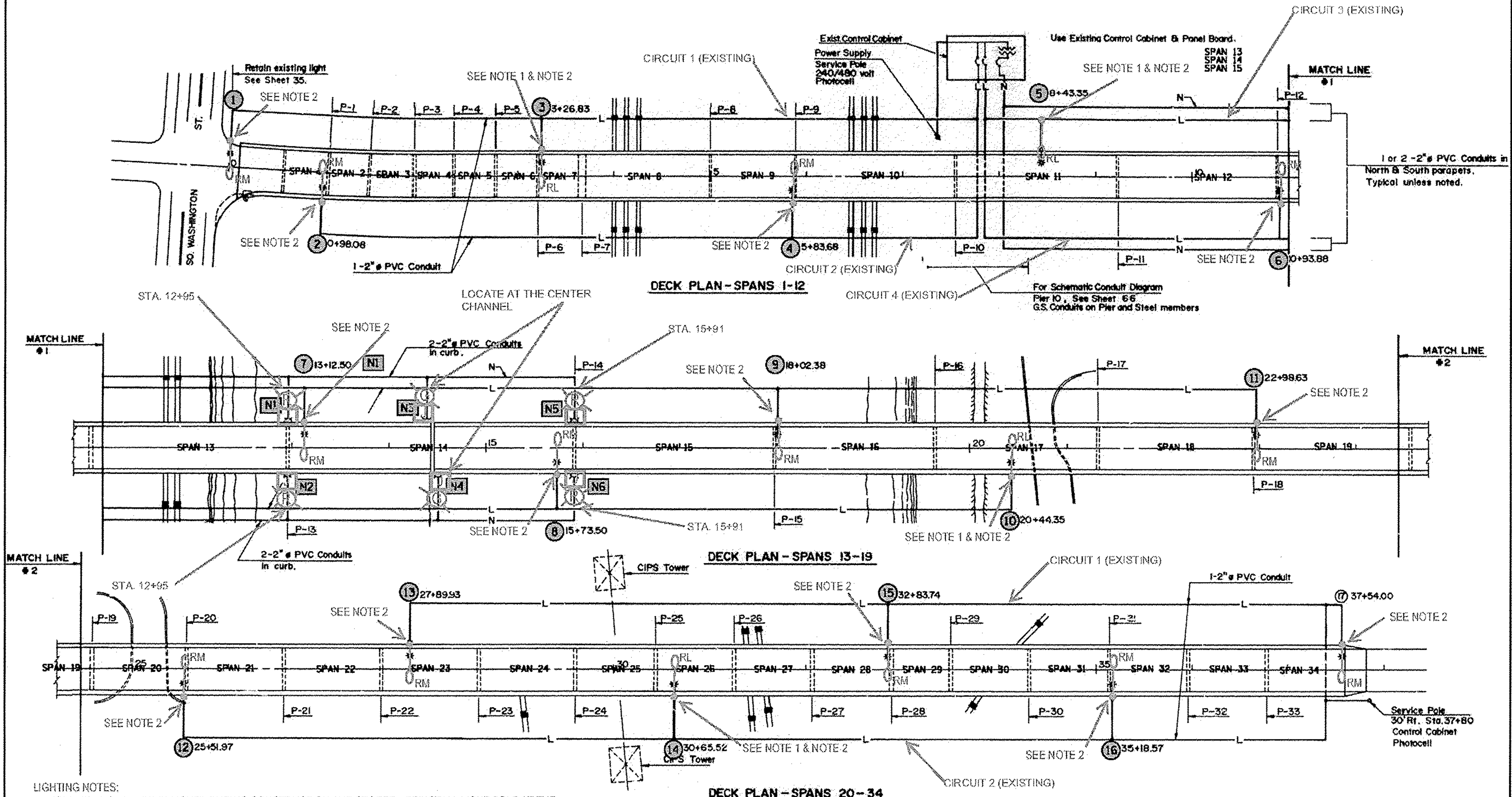
		CONTRACT NO. 68A93		
	ILLINOIS	FED. AID PROJECT		



LIGHTING NOTES:

1. LIGHT POLE SHALL BE REMOVED DURING CONSTRUCTION AND STORED. REINSTALL LIGHT POLE AT THE PROPOSED FOUNDATION ACCORDING TO ARTICLE 844.03(b) OF STANDARD SPECIFICATIONS. THE COST IS INCLUDED IN "RELOCATE EXISTING LIGHTING UNIT".
2. REMOVE EXISTING LUMINAIRE AND INSTALL NEW MEDIUM WATTAGE HORIZONTAL MOUNT LED LUMINAIRE, TYPE III. INSTALL POLE WIRING AND FUSE KIT. THE COST OF THE NEW POLE WIRING AND FUSE KIT ARE INCLUDED IN THE COST OF THE NEW LUMINAIRE.

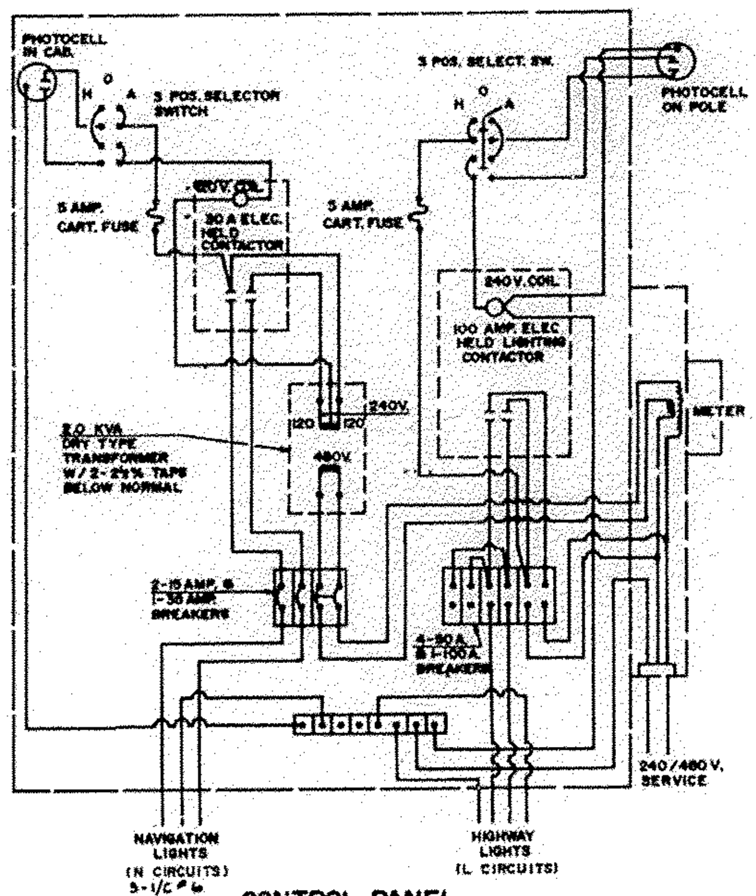
FILE NAME =	USER NAME = kowalder	DESIGNED -	REVISED -
P:\GBC83 - Controller Replacement & BBS	Project\GBV93 - Cedar Street Bridge Lighting	DRAWN -	REVISED -
	PLOT SCALE = 30.0000 ' / in.	CHECKED -	REVISED -
	PLOT DATE = 11/24/2015	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PROPOSED LIGHTING PLANS
CEDAR STREET BRIDGE

SCALE: | STA. | TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
669	(103B)I-7	PEORIA-TAZEWELL	180	180B
		CONTRACT NO. 68A93		
		ILLINOIS FED. AID PROJECT		



CONTROL PANEL NEAR PIER 10

See Note 6

NOTES - BRIDGE ELECTRICAL WORK

SEE SHEET 64

NOTE 1: POWER FOR THE BRIDGE ROADWAY LIGHTING SYSTEM IS SUPPLIED FROM TWO SERVICE SOURCES, ONE NEAR PIER 10, THE OTHER NEAR THE EAST ABUTMENT.

NOTE 2: THIS CONTRACT INCLUDES THE REWIRING OF A COMPLETE LIGHTING SYSTEM INCLUDING, BUT NOT LIMITED TO, PROVIDING SERVICE FROM EXISTING CONTROL CABINETS TO SIXTEEN (16) PROPOSED LIGHT POLES, ONE (1) EXISTING LIGHT POLE AND SIX (6) NAVIGATION LIGHTS, REPLACED IN A PRECEEDING CONTRACT.

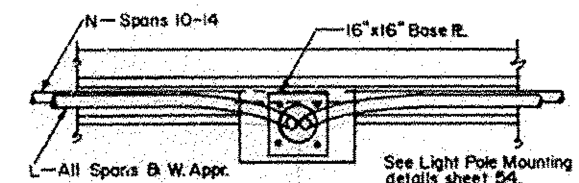
NOTE 3: PAYMENT FOR THE PROPOSED HIGHWAY LIGHTING REWIRING IS PROVIDED FOR IN BID ITEMS FOR GALVANIZED STEEL AND PVC CONDUITS AND ELECTRIC CABLE. NAVIGATION LIGHTING IS ON A L. SUM BASIS.

NOTE 4: IMBEDED CONDUITS IN PARAPET CURB BLOCKS SHALL BE 2" DIA. PVC PIPE, SCHEDULE 40, OR APPROVED SUBSTITUTE, UNLESS OTHERWISE DESIGNATED. CONDUITS NOT PROTECTED BY CONCRETE SHALL BE GALVANIZED STEEL OF A SIZE SHOWN IN THE PLANS.

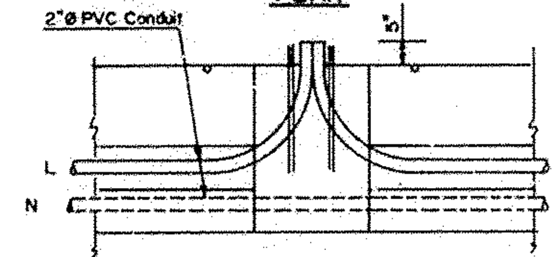
NOTE 5: PAYMENT FOR FURNISHING AND INSTALLING JUNCTION BOXES, CONDULETS, HANGERS, ATTACHMENT DEVICES, EXPANSION SLEEVES, PULL BOXES AND ACCESSORIES REQUIRED BY THE NATIONAL ELECTRIC CODES AND/OR SHOWN IN, BUT NOT LIMITED TO THE PLANS, IS INCIDENTAL TO THE COST OF THE APPROPRIATE CONDUIT, LINEAL FEET.

NOTE 6: MODIFICATION OF EXISTING CONTROL CABINET TO REPLACE EXISTING OVERHEAD WIRING CONNECTION TO PIER 10 WITH BURIED GALVANIZED STEEL CONDUIT CONNECTION IS BILLED AS "MODIFY EXISTING CONTROL INSTALLATION, EACH".

NOTE 7: REHABILITATION OF EXISTING LIGHT POLE AT WEST APPROACH INCLUDES ITEM "ADJUST EXISTING LIGHT STANDARD", INSTALLATION OF 150 WATT LUMINARE AND REWIRING WITHIN THE POLE.

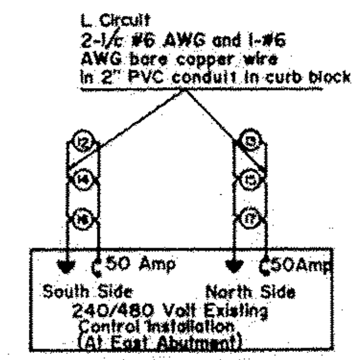


PLAN



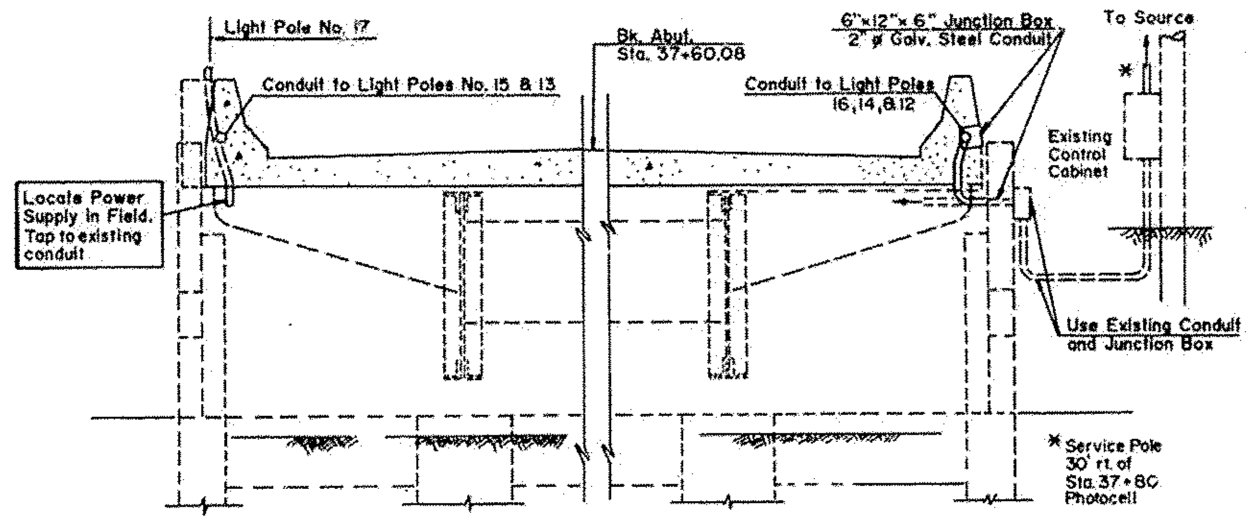
SECTION B-B

LIGHT POLE CONDUIT INSTALLATION



BRIDGE LIGHTING

Proposed Wiring Diagram

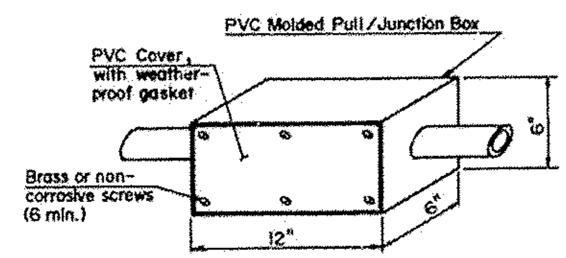


EAST ABUTMENT CONNECTIONS

HIGHWAY LIGHTING
BILL OF MATERIAL (See Sheet 64 of 70)

	ITEM	UNIT	QUANTITY
*	Electrical Cable in Conduit, 600 V (XLP-Type USE) 1/C NO. 12	Lin. Ft.	1734
**	ELCBL C 600V (XLP) 1/C NO. 6	Lin. Ft.	13,510
**	Bare Copper Wire, 1/C NO. 6	Lin. Ft.	6746
	Conduit in Trench, 2" Dia. Galvanized Steel	Lin. Ft.	54
	Conduit Attached to Structure, 2" Dia. Galv. Steel	Lin. Ft.	144
	Conduit Attached to Structure, 2" Dia. PVC	Lin. Ft.	6,440
	Light Pole Aluminum, 45' M.H. 6 Ft. Davit Arm	Each	16
	Luminare, Sodium Vapor, Rectilinar Type 150 Watt	Each	One
	Luminare, Sodium Vapor, Rectilinar Type 250 Watt	Each	16
	Removal of Existing Lighting System, Complete	Lump Sum	One
	Modify Existing Control Installation [redacted]	Each	One
	Adjust Existing Light Standard	***	***

* Internal [redacted] in 17 light poles, 2-1/C #12.
[redacted] 1/C #6 & 1/C #6 bare)



PULL/JUNCTION BOX

Outside Parapet Curb Installation
L & N Circuits

For box locations see Deck Plan Sheets

CIRCUIT IDENTIFICATION
L = Bridge Roadway Lighting
N = Navigation Lighting

FOR INFORMATION ONLY

FILE NAME = PW\68C83 - Controller Replacement & BOS	USER NAME = howalder	DESIGNED -	REVISED -
	Project\68W13 - Cedar Street Bridge Lighting	DRAWN	REVISED -
	PLOT SCALE = 38.0588 ' / in.	CHECKED -	REVISED -
	PLOT DATE = 11/24/2015	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

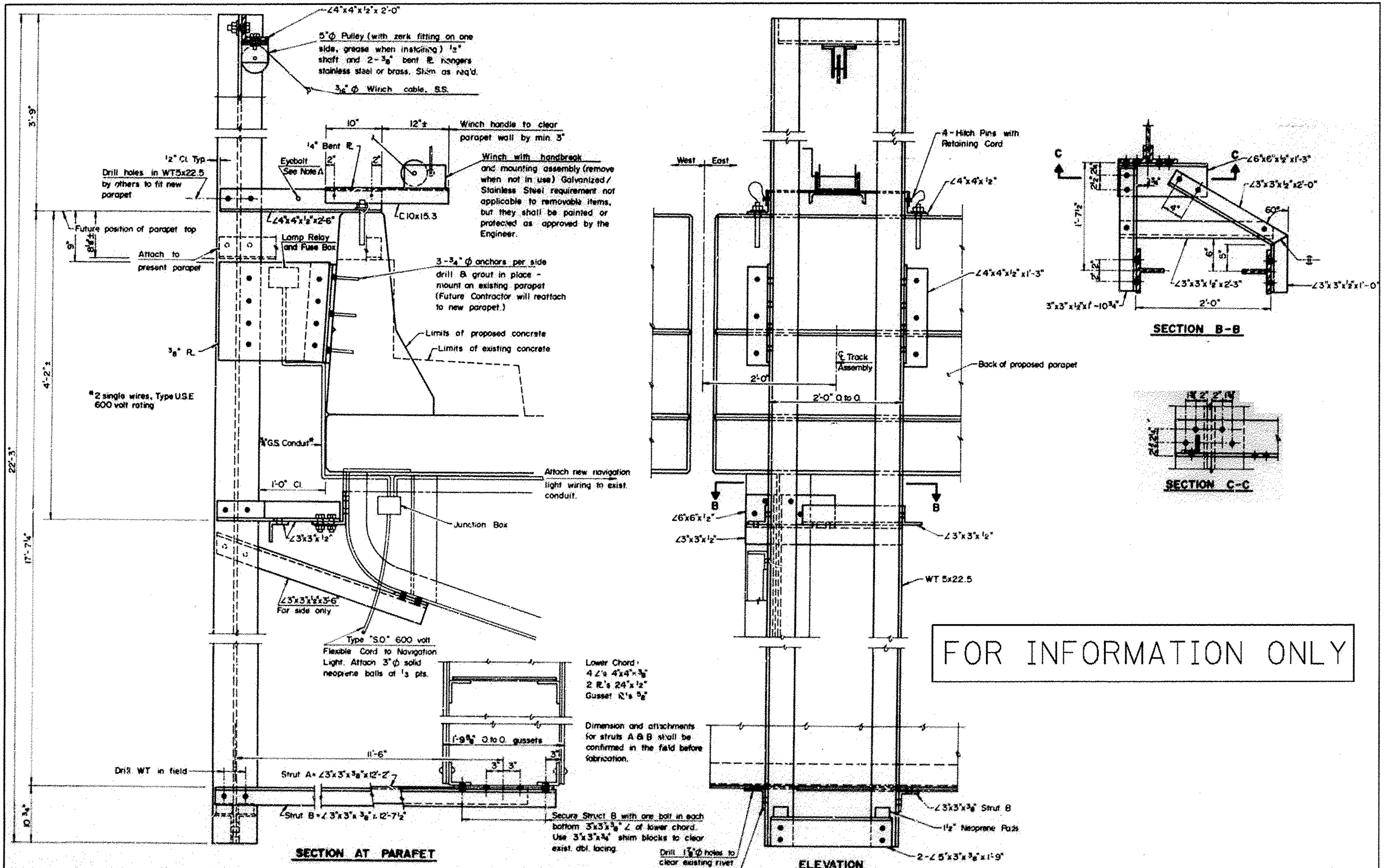
EXISTING ROADWAY LIGHTING
CEDAR STREET BRIDGE

SCALE: | STA. | TO STA.

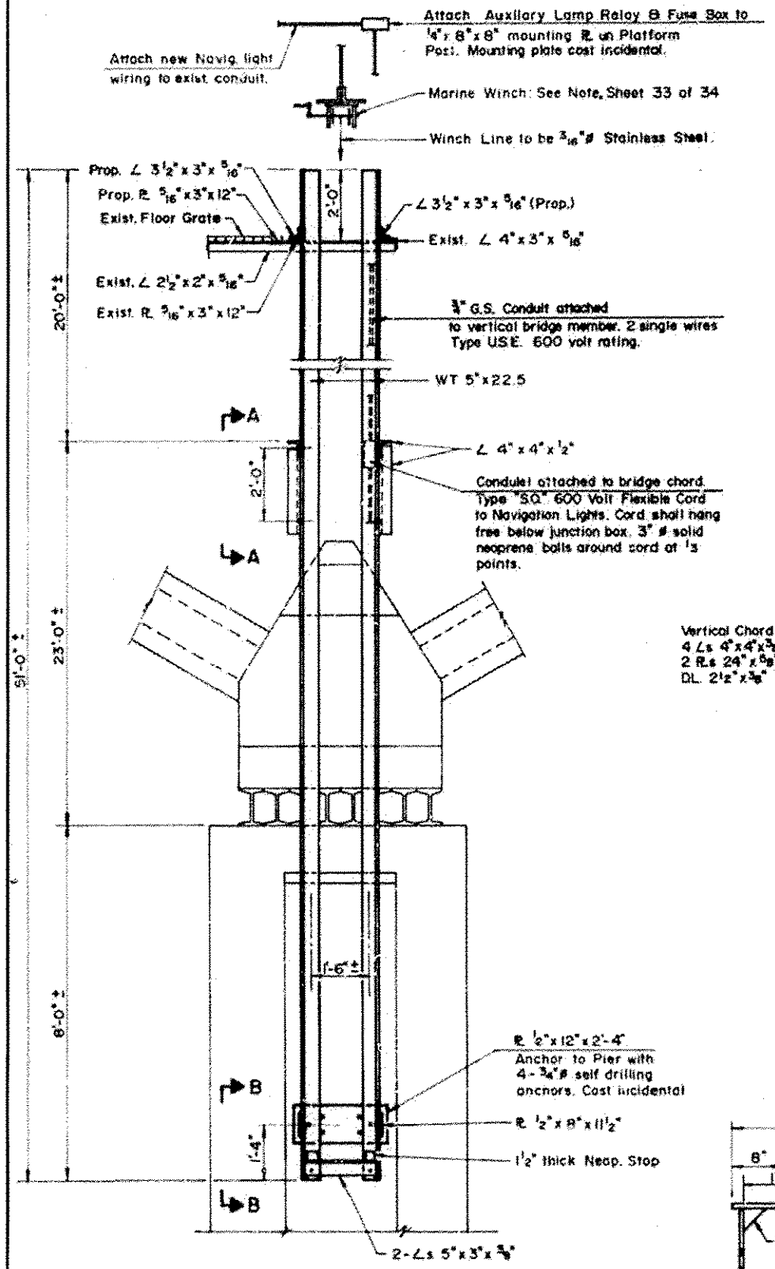
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
669	(103B)I-7	PEORIA-TAZEWELL	180	180C

CONTRACT NO. 68A93

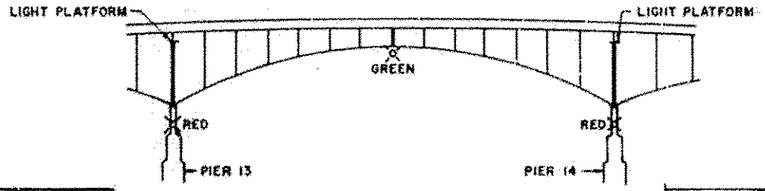
ILLINOIS FED. AID PROJECT



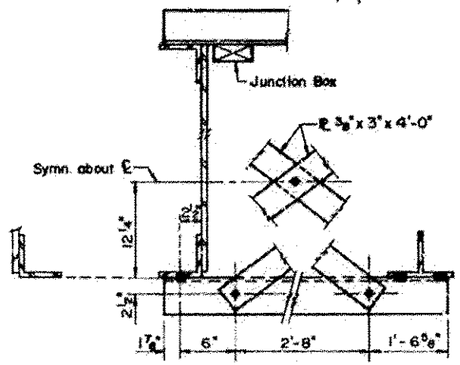
FILE NAME =	USER NAME = houlder	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	EXISTING NAVIGATIONAL LIGHTING CEDAR STREET BRIDGE	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
P:\68C93 - Controller Replacement & 895	Project\68A93 - Cedar Street Bridge Lighting	DRAWN	REVISED -			669	(1038)I-7	PEORIA-TAZEWELL	180	180D
	PLOT SCALE = 30.0000 ' / in.	CHECKED -	REVISED -					CONTRACT NO. 68A93		
	PLOT DATE = 11/24/2015	DATE -	REVISED -		SCALE: STA. TO STA.			ILLINOIS FED. AID PROJECT		



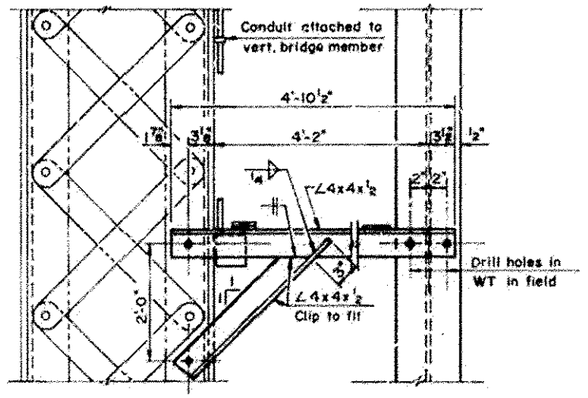
ELEVATION



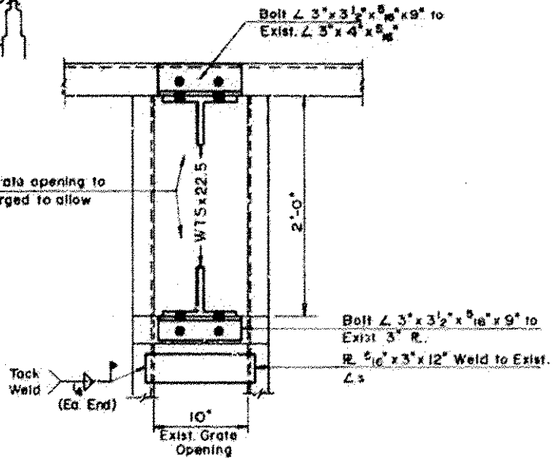
NAVIGATION LIGHTS LOCATION



PLAN

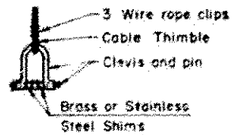


SECTION A-A

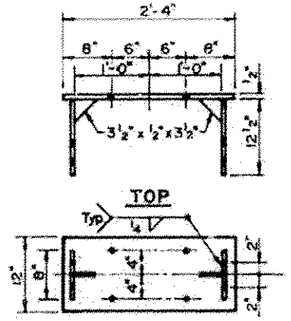


PLAN AT LIGHT PLATFORM

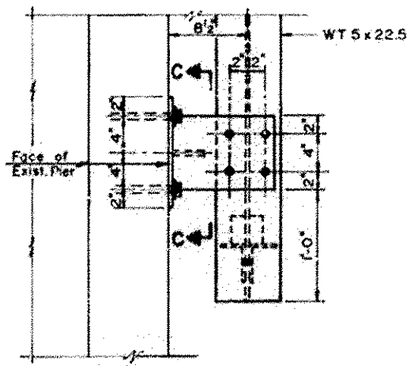
TOP SLIDE PLATE
(Bott. PL Similar)



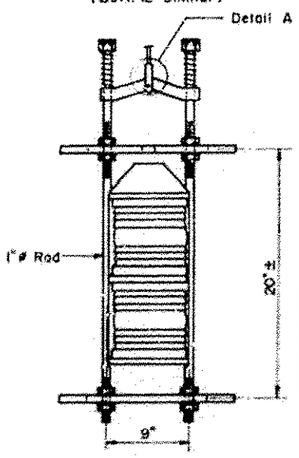
DETAIL A



SECTION C-C



SECTION B-B



LIGHT FIXTURE

NOTES: Housing to be cast aluminum with 2-180° Red lenses for Pier installation & 2-180° Green lenses for midspan installation.

Auxiliary Lamp Relay to be used in which the batt. light is primary. Both primary & secondary light to be 100 Watt lamps.

Dimensions shown are based on a light fixture 20" tall fitted to 1"ø rods 9"c to c. Any deviation from these dimensions shall be compensated for in the lift mechanism and track material by the contractor at no additional expense.

All Bolts shall be ⅝"ø Stainless Steel with S.S. Locknuts & Washers unless otherwise noted. Holes shall be ¾"ø.

FOR INFORMATION ONLY

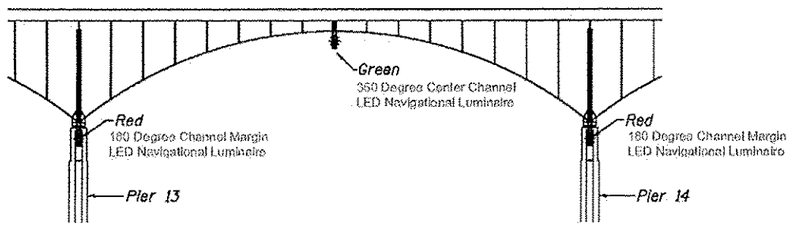
FILE NAME = P:\GBC83 - Controller Replacement & BBS	USER NAME = hawalder	DESIGNED - ___	REVISED - ___
	Project\GBW13 - Cedar Street Bridge Lighting	DRAWN - ___	REVISED - ___
	PLOT SCALE = 36.0000 '/ in.	CHECKED - ___	REVISED - ___
	PLOT DATE = 11/24/2015	DATE - ___	REVISED - ___

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

EXISTING NAVIGATIONAL LIGHTING
CEDAR STREET BRIDGE

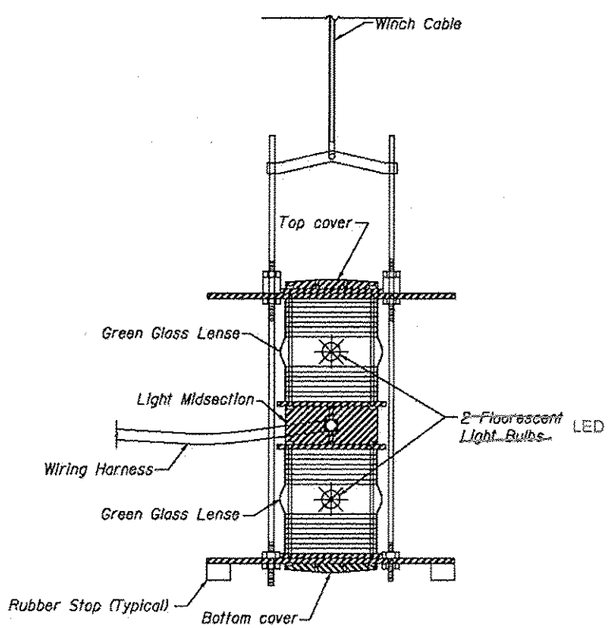
SCALE: ___ STA. ___ TO STA. ___

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
669	(103BII-7	PEORIA-TAZEWELL	180	180E
		CONTRACT NO. 68A93		
		ILLINOIS FED. AID PROJECT		



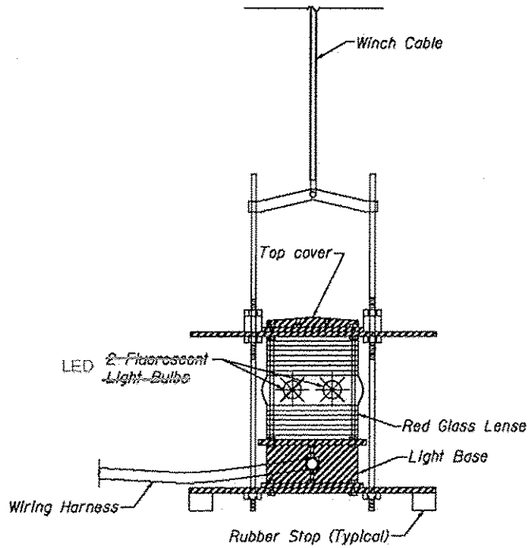
NAVIGATIONAL LIGHTS LOCATION

South Elev. Looking North - Shown
North Elevation Similar



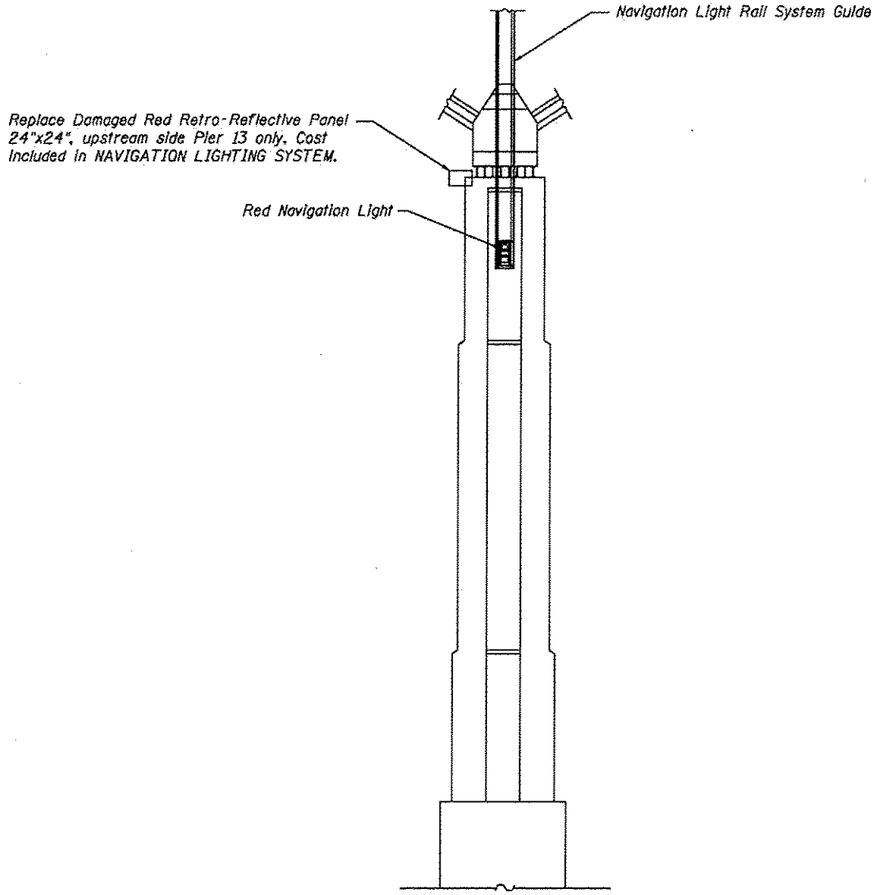
GREEN NAVIGATIONAL LIGHT AT MID-SPAN

Typical- 2 Locations



RED NAVIGATIONAL LIGHT AT PIERS

Typical- 4 Locations



NAVIGATIONAL LIGHT

BILL OF MATERIAL

ITEM	UNIT	TOTAL
Navigation Lighting System	L. SUM	1

Note:

1. See Navigation Lighting System Special Provision and as-built plans for more information

(*) Peoria / Tazewell

QUIGG ENGINEERING INC

USER NAME = rgoertz	DESIGNED - DRB	REVISED
B400838-68A93-179-NavLightRepair.dgn	CHECKED - SDM	REVISED
PLOT SCALE = 10.0000 ' / in.	DRAWN - TRF	REVISED
PLOT DATE = 10/05/2015	CHECKED - DRB	REVISED

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

NAVIGATION LIGHTING SYSTEM DETAILS
CEDAR STREET BRIDGE

SHEET NO. 111 OF 112 SHEETS

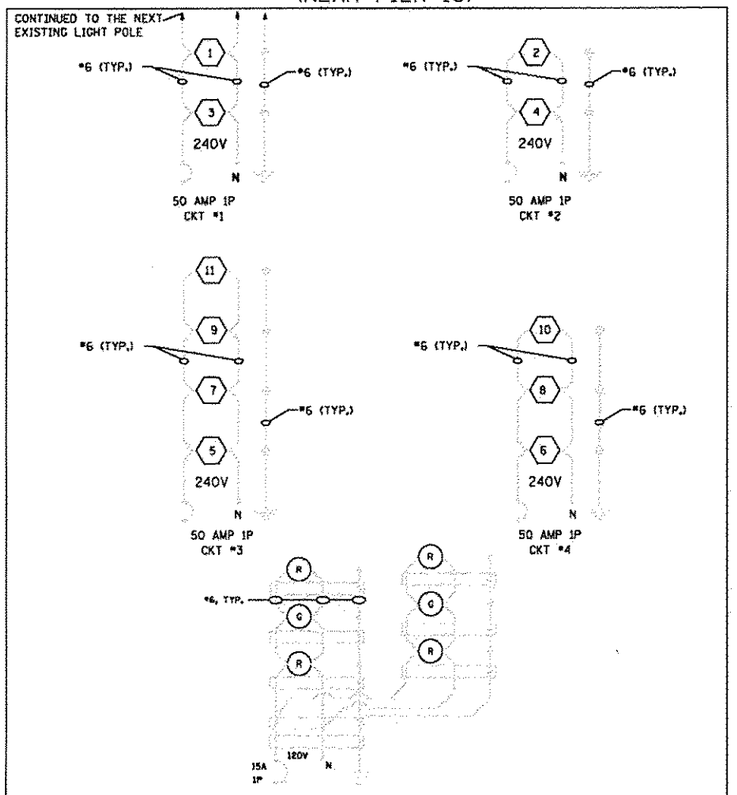
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
669	(103B)I-7	(*)	180	180F

CONTRACT NO. 68A93

ILLINOIS FED. AID PROJECT

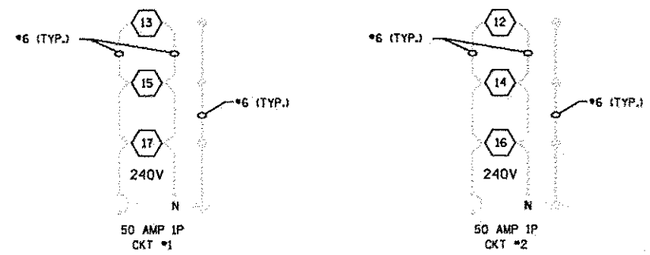
FILE NAME = S:\Projects\2015 JOBS\1511.884-89 OEI PTB 168-17 D4 Cedar St Bridge\CADD\CADD Sheets\B400838-68A93-179-NavLightRepair.dgn
MODEL = Default
PLOT DRIVER = 1511.884 PDF.plotcfg

EXISTING CONTROLLER 1
(NEAR PIER 10)



NAVIGATION LIGHTING CIRCUIT

EXISTING CONTROLLER 2
(AT EAST ABUTMENT STA.37+80)



LEGEND

- (R) RED 180 DEGREE CHANNEL MARGIN LED NAVIGATION LUMINAIRE
- (G) GREEN 360 DEGREE CHANNEL CENTER LED NAVIGATION LUMINAIRE
- ⬡ MEDIUM WATTAGE LED LUMINAIRE
- ▭ JUNCTION BOX

NOTES:

1. ALL NECESSARY REVISIONS TO THE WIRING SHOWN ON THIS SHEET SHALL BE MADE AT NO ADDTIONAL COST TO THE DEPARTMENT AND TO THE SATISFACTION OF THE ENGINEER.
2. EXISTING CIRCUIT SHOWN IN SHADED COLOR

WIRING DIAGRAM

ILLINOIS DEPARTMENT OF TRANSPORTATION
LUMINAIRE PERFORMANCE TABLE - PROPOSED LIGHTING

GIVEN CONDITIONS		
ROADWAY DATA:	PAVEMENT WIDTH	24 (FT.)
	NUMBER OF LANES (IN DIRECTION OF TRAVEL)	2
	I.E.S. SURFACE CLASSIFICATION	R3
	Q-ZERO VALUE	.07
LIGHT POLE DATA:	MOUNTING HEIGHT	47 (FT.)
	MAST ARM LENGTH	6 (FT.)
	POLE SET-BACK FROM EDGE OF PAVEMENT	0 (FT.)
LUMINAIRE DATA:	LUMINAIRE TYPE	LED
	LUMINAIRE LUMENS	20,000 MINIMUM
	LUMEN DEPRECIATION FACTOR	0.90
	DIRT DEPRECIATION FACTOR	0.80
	EQUIPMENT FACTOR	0.95
	TOTAL LIGHT LOSS FACTOR	0.684
LAYOUT DATA:	SPACING	515 (FT.)
	CONFIGURATION	STAGGERED
	LUMINAIRE OVERHANG OVER EDGE OF PAVEMENT LANE	0 (FT.)

NOTE: VARIATIONS FROM THE ABOVE SPECIFIED I.E.S. DISTRUBUTION PATTERN MAY BE REQUESTED AND ACCEPTANCE OF VARIATIONS WILL BE SUBJECT TO REVIEW BY THE ENGINEER BASED ON HOW WELL THE PERFORMANCE REQUIREMENTS ARE MET.

PERFORMANCE REQUIREMENTS		
LUMINANCE:	AVERAGE LUMINANCE: (L_{AVE})	0.6 Cd/m^2
	UNIFORMITY RATIOS: (L_{AVE}/L_{MIN})	3.5:1 (MAX)
	(L_{MAX}/L_{MIN})	6.0:1 (MAX)
	MAXIMUM VEILING LUMINAICE RATIO: (L_V/L_{AVE})	0.3:1 (MAX)

NOTE: THESE PERFORMANCE REQUIREMENTS SHALL BE THE MINIMUM ACCEPTABLE STANDARDS OF PHOTOMETRIC PERFORMANCE FOR THE LUMINAIRE, BASED ON TEH GIVEN CONDITIONS LISTED ABOVE.

FILE NAME = F:\3814\District 4\68A93-CEEDAR ST BRIDGE\OVER ILLINOIS RIVER\Design\Plans\WIRING AND PERFORMANCE-TABLE.dgn	USER NAME = bnair	DESIGNED -	REVISED -
	PLOT SCALE = 100.134682d.000000'	CHECKED -	REVISED -
#MODELNAME#	PLOT DATE = 01-DEC-2015 11:28	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

WIRING DIAGRAM AND LUMINAIRE PERFORMANCE TABLE
CEDAR STREET BRIDGE
SCALE: N.I.S. | SHEET 1 OF 1 SHEETS | STA. | TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
669	(1038)-T		180	1806
		CONTRACT NO. 68A93		
	ILLINOIS FED. AID PROJECT			