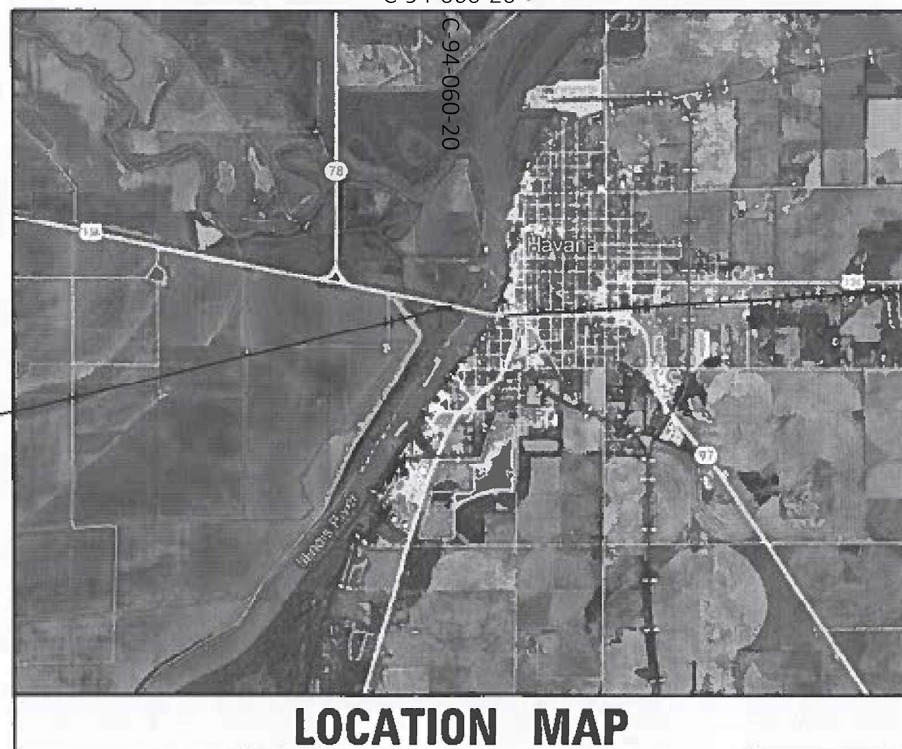


STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS

**PROPOSED
HIGHWAY PLANS**

F.A.P. ROUTE 315 (US-136/IL-78/IL-97)
HAVANA BRIDGE OVER ILLINOIS RIVER
S.N. 063-0002

SECTION (140-B-BR)BP, BRR
SCOTT W. LUCAS MEMORIAL BRIDGE
BRIDGE REPAIRS
FULTON COUNTY
PROJECT NHPP-BMB6(867)
R-4-E (FULTON) C-94-060-20 | 9-R-W (MASON)



LOCATION MAP

R-4-E (FULTON) | 9-R-W (MASON)

PROJECT LENGTH

IMPROVEMENT LENGTH = 3,616 FEET = 0.68 MILES
PROJECT LENGTH = 3,616 FEET = 0.68 MILES

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
315	1140-B-BR)BP, BRR	(*)	163	1
ILLINOIS CONTRACT NO. 68F50			10) FULTON	

D-94-040-20



LOCATION OF SECTION INDICATED THUS:



PROJECT BEGINS: STA 334 + 73.40
IMPROVEMENT BEGINS: STA 336 + 97.3

DESIGN DESIGNATION
US 136/IL 78/IL 97:5,600(1,120)
OTHER PRINCIPAL ARTERIAL

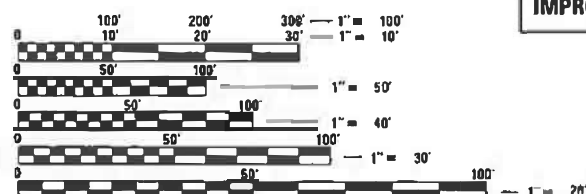
INDEX OF SHEETS
SEE SHEET 2 FOR "INDEX OF SHEETS"

HIGHWAY STANDARDS
SEE SHEET 2 FOR "HIGHWAY STANDARDS"

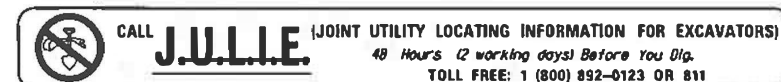
DESCRIPTION OF IMPROVEMENT
IMPROVEMENTS CONSIST OF STEEL TRUSS
REPAIRS, EXPANSION JOINT REPLACEMENT,
PARTIAL DEPTH DECK PATCHING,
BRIDGE PAINTING, AND OTHER
MISCELLANEOUS REPAIRS
TO: STRUCTURE NO: 063-0002

PREPARED BY:

**COLLINS
ENGINEERS^{INC}**
550 W. JACKSON ST., SUITE 1200
CHICAGO, IL 60661
(312) 704-9300
ILLINOIS PROFESSIONAL DESIGN FIRM
LICENSE NO. 184-000993



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.



PROJECT ENGINEER: REBECCA MARRUFRO
PROJECT MANAGER: ANNA DEVINE
CONTRACT NO. 68F50

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
SUBMITTED Oct 16 20 25
Kensel A. Barnett ^{PSD}
REGIONAL ENGINEER
December 5 20 25
Sec EA
ENGINEER OF DESIGN AND ENVIRONMENT
December 5 20 25
Harry
DIRECTOR OF HIGHWAYS PROJECT IMPLEMENTATION

**PRINTED BY THE AUTHORITY
OF THE STATE OF ILLINOIS**

MODEL: Default
FILE NAME: pw://keg-pw-bentley.com:keg-pw-01/Documents/IDOT Projects/21-1089.01 PTB 200-428 Cedar St. over Illinois River (ORD 10.12)/0_IDOT/CADsheets/KEG Sheets/Havana/0630002-XXXXX-G02-IndexofSheetsCenNotes.dgn

INDEX OF SHEETS

1		COVER
2		INDEX OF SHEETS, HIGHWAY STANDARDS, GENERAL NOTES, AND JOB SPECIFIC NOTES
3	-	6 SUMMARY OF QUANTITIES
7	-	29 MAINTENANCE OF TRAFFIC
30	-	70 STRUCTURAL REPAIR DETAILS
71	-	145 STRUCTURAL PAINTING DETAILS
146	-	163 LIGHTING PLANS

HIGHWAY STANDARDS

STANDARD NO.

000001- 09	STANDARD SYMBOLS, ABBREVIATIONS AND PATTERNS
001001-02	AREAS OF REINFORCEMENT BARS
001006	DECIMAL OF AN INCH AND OF A FOOT
280001-07	TEMPORARY EROSION CONTROL SYSTEMS
420401-13	PAVEMENT CONNECTOR (PCC) FOR BRIDGE APPROACH SLAB
606001- 09	CONCRETE CURB TYPE B AND COMBINATION CONCRETE CURB AND GUTTER
701006-05	OFF-RD OPERATIONS, 2L, 2W, 15' TO 24" FROM PAVEMENT EDGE
701011-04	OFF-RD MOVING OPERATIONS 2L 2W DAY ONLY
701201-05	LANE CLOSURE, 2L 2W, DAY ONLY 45MPH OR MORE
701311-03	LANE CLOSURE 2L, 2W MOVING OPERATIONS-DAY ONLY
701321-19	LANE CLOSURE, 2L 2W, BRIDGE REPAIR WITH BARRIER
701901-11	TRAFFIC CONTROL DEVICES
704001-08	TEMPORARY CONCRETE BARRIER
780001-05	TYPICAL PAVEMENT MARKINGS
D4-780001-01	TYPICAL PAVEMENT MARKINGS
D4-780001-02	TYPICAL PAVEMENT MARKINGS
782006-01	GUARDRAIL AND BARRIER WALL REFLECTOR MOUNTING DETAILS
701501-06	URBAN LANE CLOSURE, 2L, 2W, UNDIVIDED

COMMITMENTS

THERE ARE NO COMMITMENTS FOR THIS PROJECT.

PROJECT SPECIFIC NOTES

1. THE CONTRACTOR SHALL OBTAIN ALL NECESSARY U.S. COAST GUARD CONSTRUCTION PERMITS IF WORKING FROM THE WATER. THE CONTRACTOR IS PROHIBITED FROM STORING A BARGE IN THE RIVER WITHOUT PRIOR APPROVAL FROM THE U.S. COAST GUARD.
2. THE CONTRACTOR WILL NOT BE ALLOWED TO SET UP A YARD OR FIELD OFFICE ON STATE PROPERTY WITHOUT PRIOR WRITTEN PERMISSION FROM THE DEPARTMENT.
3. BEFORE BEGINNING ANY WORK THE CONTRACTOR SHALL RETAIN AND RECORD FOR FUTURE REFERENCE, ALL EXISTING PAVEMENT MARKING LINES (AND RAISED REFLECTIVE PAVEMENT MARKERS) IN ORDER THAT THESE LOCATIONS CAN BE RE-ESTABLISHED FOR STRIPING. EXACT LOCATIONS OF ALL PAVEMENT MARKINGS SHALL BE AS DIRECTED BY THE ENGINEER.
4. FOR WORK OUTSIDE THE LIMITS OF THE APPROACH PAVEMENT, ALL REFERENCES IN THE HIGHWAY STANDARDS AND STANDARD SPECIFICATIONS FOR REINFORCEMENT, DOWEL BARS AND TIE BARS IN PAVEMENT, SHOULDERS, CURB, GUTTER, COMBINATION CURB AND GUTTER AND MEDIAN, AND CHAIR SUPPORTS FOR CRC PAVEMENT, SHALL BE EPOXY COATED, UNLESS NOTED ON THE PLAN.
5. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROTECTION OF ALL UNDERGROUND OR SURFACE UTILITIES EVEN THOUGH THEY MAY NOT BE SHOWN ON THE PLANS. ANY UTILITY THAT IS DAMAGED DURING CONSTRUCTION SHALL BE REPAIRED OR REPLACED TO THE SATISFACTION OF THE ENGINEER. THIS WORK SHALL BE AT THE CONTRACTOR'S EXPENSE.
6. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO VERIFY ALL DIMENSIONS AND CONDITIONS EXISTING IN THE FIELD PRIOR TO CONSTRUCTION AND ORDERING OF MATERIALS.
7. FRAMES AND GRATES ADJUSTMENT OF PRIVATE UTILITIES WITHIN THE LIMITS OF THE IMPROVEMENTS SHALL BE DONE BY THEIR RESPECTIVE OWNERS AND ARE NOT PART OF THIS CONTRACT.
8. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE NOTIFICATION OF ALL EMERGENCY SERVICES, SCHOOL DISTRICTS, I.D.O.T.'S COMMUNICATIONS CENTER, SPRINGFIELD TRUCK PERMIT SECTION AND OTHER AGENCIES AFFECTED BY THE LANE CLOSURE. THE CONTRACTOR SHALL ALSO BE RESPONSIBLE FOR POSTING SIGNS THAT WILL INDICATE THE DATES THE CLOSURE WILL BE IN PLACE.

COORDINATION

COORDINATION FOR UNITED STATES COAST GUARD (U.S.C.G.)
MR. PETER J. SAMBOR, M.P.A.
U.S.C.G. BRIDGE MANAGEMENT SPECIALIST
COAST GUARD 8TH DISTRICT
1222 SPRUCE STREET, SUITE 2107F
ST. LOUIS, MISSOURI 63103
PHONE: (314) 269-2380
U.S.C.G. 24-HOUR WATCH CENTER: (314) 269-2332

SEE SPECIAL PROVISIONS FOR UNITED STATES COAST GUARD (U.S.C.G.) REQUIREMENTS.

DISTRICT 4 CONTACT:
JOSH JOCHUMS, P.E.
PHONE: (309) 671-3452

DISTRICT 4 GENERAL NOTES

1. 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 (BORROW SITE REVIEW)
 - BDE FORM 2290 (WASTE/USE AREA REVIEW)
 - A LOCATION MAP SHOWING THE SIZE LIMITS AND LOCATION OF THE USE AREAS
 - COLOR PHOTOGRAPHS DEPICTING THE USE AREA
 - BORROW AREA ENTRY AGREEMENT FORM - D4 PL0101
- PRIOR TO ANY WASTER 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 WASTER SITE ENVIRONMENTAL CLEARANCES AND SIX WEEKS FOR THE REQUIRED BORROW SITE ENVIRONMENTAL CLEARANCES.
2. THE DEPARTMENT RESERVES THE RIGHT AT ANY TIME TO ADD ADDITIONAL TRAFFIC CONTROL SYSTEMS OR DEVICES WITHIN THE ACTIVE CONTRACT LIMITS, BY MEANS OF AN ADDITIONAL CONTRACT. ALL TERMS OF ARTICLE 105.08 OF THE STANDARD SPECIFICATIONS SHALL BE FOLLOWED BY EACH CONTRACTOR.
3. 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 FEILD TO AVOID ANY FOUND UTILITIES.
- ALL WOOD POST LOCATIONS SHALL BE VERIFIED WITH THE BUREAU OF OPERATIONS, TRAFFIC SECTION, BEFORE INSTALLATION.
4. THE RESIDENT SHALL CONTACT OPERATIONS TO VERIFY THE LOCATION OF NO PASSING ZONES PRIOR TO PLACEMENT OF CENTERLINE STRIPING.
5. COMMITMENTS ARE NOT TO BE ALTERED WITHOUT THE WRITTEN APPROVAL OF ALL PARTIES TO WHICH THE COMMITMENT WAS MADE.

UTILIES

NO UTILITY CONFLICTS HAVE BEEN FOUND WITHIN THE PROJECT LIMITS. CAUTION NEEDS TO BE USED AROUND AT&T CONDUIT ATTACHED TO THE STRUCTURE.
DIG RESPONSIBLY, CALL JULIE

UTILITIES LOCATED WITHIN THE ROW CONSIST OF:

<u>COMPANY</u>	<u>CONTACT PERSON</u>	<u>CONTACT INFO</u>
AT&T Distribution	ANDREW BENDER	1-618-477-5321

MODEL Dwg.dgn
FILE NAME: P:\1411349-IDDOT Code & Havana Phase I and II\Work\CADD\063-0002\Havana Bridge\Phase I\Sheet\063002_68F50-001.dgn

CODE NO.	ITEM	UNIT	TOTAL QUANTITY	CONSTRUCTION CODE					
				80% FED / 20% STATE					
				BRIDGE					
				0013					
				S.N.063-0002					
50102400	CONCRETE REMOVAL	CU YD	8.3	8.3					
50157300	PROTECTIVE SHIELD	SQ YD	1,528	1,528					
50300255	CONCRETE SUPERSTRUCTURE	CU YD	8.3	8.3					
50300300	PROTECTIVE COAT	SQ YD	5,631	5,631					
50800205	REINFORCEMENT BARS, EPOXY COATED	POUND	1,121	1,121					
50800515	BAR SPLICERS	EACH	22	22					
52000005	PREFORMED JOINT SEAL 1"	FOOT	471	471					
52000110	PREFORMED JOINT STRIP SEAL	FOOT	60	60					
67000400	ENGINEER'S FIELD OFFICE, TYPE A	CAL MO	18	18					
67100100	MOBILIZATION	L SUM	1	1					
70107025	CHANGEABLE MESSAGE SIGN	CAL DA	240	240					
70300150	SHORT TERM PAVEMENT MARKING REMOVAL	SQ FT	2,290	2,290					
70300221	TEMPORARY PAVEMENT MARKING - LINE 4"- PAINT	FOOT	5,381	5,381					
70307120	TEMPORARY PAVEMENT MARKING - LINE 4" - TYPE IV TAPE	FOOT	6,135	6,135					



USER NAME = jandrews	DESIGNED - JA	REVISED -
	DRAWN - JA	REVISED -
PLOT SCALE = 0.167' / in.	CHECKED - MAH/LDB	REVISED -
PLOT DATE = 10/3/2025	DATE - 09/14/2025	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SUMMARY OF QUANTITIES
S.N. 063--0002 HAVANA BRIDGE OVER ILLINOIS RIVER

SCALE:	SHEET 1 OF 4 SHEETS	STA.	TO STA.
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F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
315	(140-B-BR)BP, BRR	FULTON/MASON	163	3
CONTRACT NO. 68F50				
ILLINOIS		FED. AID PROJECT		

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CODE NO.	ITEM	UNIT	TOTAL QUANTITY	CONSTRUCTION CODE					
				80% FED / 20% STATE					
				BRIDGE					
				0013					
				S.N.063-0002					
70307210	TEMPORARY PAVEMENT MARKING - LINE 24"- TYPE IV TAPE	FOOT	60	60					
70400100	TEMPORARY CONCRETE BARRIER	FOOT	2,038	2,038					
70400200	RELOCATE TEMPORARY CONCRETE BARRIER	FOOT	2,625	2,625					
70600250	IMPACT ATTENUATORS, TEMPORARY (NON- REDIRECTIVE), TEST LEVEL 3	EACH	4	4					
70600350	IMPACT ATTENUATORS, RELOCATE (NON- REDIRECTIVE), TEST LEVEL 3	EACH	8	8					
* 78009000	MODIFIED URETHANE PAVEMENT MARKING - LETTERS AND SYMBOLS	SQ FT	47	47					
* 78009004	MODIFIED URETHANE PAVEMENT MARKING - LINE 4"	FOOT	10,213	10,213					
* 78009008	MODIFIED URETHANE PAVEMENT MARKING - LINE 8"	FOOT	287	287					
* 78009012	MODIFIED URETHANE PAVEMENT MARKING - LINE 12"	FOOT	61	61					
* 78009024	MODIFIED URETHANE PAVEMENT MARKING - LINE 24"	FOOT	40	40					
78300202	PAVEMENT MARKING REMOVAL - WATER BLASTING	SQ FT	3,737	3,737					
* 80400100	ELECTRIC SERVICE INSTALLATION	EACH	1	1					
* 81028310	UNDERGROUND CONDUIT, PVC, 3/4" DIA.	FOOT	155	155					
* 81028340	UNDERGROUND CONDUIT, PVC, 1 1/2" DIA.	FOOT	14	14					

*= SPECIALTY ITEM



USER NAME = jandrews	DESIGNED - JA	REVISED -
	DRAWN - JA	REVISED -
PLOT SCALE = 0.167' / in.	CHECKED - MAH/LDB	REVISED -
PLOT DATE = 10/3/2025	DATE - 09/14/2025	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SUMMARY OF QUANTITIES
S.N. 063–0002 HAVANA BRIDGE OVER ILLINOIS RIVER

SCALE:	SHEET 2 OF 4 SHEETS	STA.	TO STA.
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F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
315	(140-B-BR)BP, BRR	FULTON/MASON	163	4
CONTRACT NO. 68F50				
ILLINOIS FED. AID PROJECT				

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				BRIDGE					
				0013					
				S.N.063-0002					
*	81028350	UNDERGROUND CONDUIT, PVC, 2" DIA.	FOOT	3	3				
*	81100453	CONDUIT ATTACHED TO STRUCTURE, 3/4" DIA. STAINLESS STEEL	FOOT	30	30				
*	81300320	JUNCTION BOX, STAINLESS STEEL, ATTACHED TO STRUCTURE, 8" X 8" X 6"	EACH	6	6				
*	81702120	ELECTRIC CABLE IN CONDUIT, 600V (XLP-TYPE USE) 1/C NO. 8	FOOT	69	69				
*	82110005	LUMINAIRE, LED, ROADWAY, OUTPUT DESIGNATION E	EACH	12	12				
*	82200608	WATERWAY OBSTRUCTION WARNING LUMINAIRE, LED, 180 DEGREE RED	EACH	4	4				
*	82200609	WATERWAY OBSTRUCTION WARNING LUMINAIRE, LED, 360 DEGREE GREEN	EACH	2	2				
*	82500330	LIGHTING CONTROLLER, PEDESTAL MOUNTED, 240VOLT, 60AMP	EACH	1	1				
*	83060810	LIGHT POLE, GALVANIZED STEEL, 35 FT. M.H., TENON MOUNT	EACH	3	3				
*	87900100	DRILL EXISTING FOUNDATION	EACH	1	1				
*	X0320023	CLOSED CIRCUIT TELEVISION DOME CAMERA, HD	EACH	4	4				
	X0325941	ACCESS LADDER	EACH	6	6				
*	X0326812	CAT 5 ETHERNET CABLE	FOOT	683	683				
	X5051204	STRUCTURAL STEEL REMOVAL	POUND	3,190	3,190				

*= SPECIALTY ITEM



USER NAME = jandrews	DESIGNED - JA	REVISED -
	DRAWN - JA	REVISED -
PLOT SCALE = 0.167 " / in.	CHECKED - MAH/LDB	REVISED -
PLOT DATE = 10/17/2025	DATE - 09/14/2025	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SUMMARY OF QUANTITIES
S.N.063–0002 HAVANA BRIDGE OVER ILLINOIS RIVER

SCALE: SHEET 3 OF 4 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
315	(140-B-BR)BP, BRR	FULTON/MASON	163	5
			CONTRACT NO. 68F50	
		ILLINOIS	FED. AID PROJECT	

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CODE NO.	ITEM	UNIT	TOTAL QUANTITY	CONSTRUCTION CODE					
				80% FED / 20% STATE BRIDGE					
				0013					
				S.N. 063-0002					
X5051206	STRUCTURAL STEEL REPAIR	POUND	9,190	9,190					
X5230152	CLEANING DRAINAGE SYSTEM	L SUM	1	1					
X7010216	TRAFFIC CONTROL AND PROTECTION, (SPECIAL)	L SUM	1	1					
X7016500	TEMPORARY BRIDGE TRAFFIC SIGNALS (SPECIAL)	EACH	1	1					
* X8210402	LUMINAIRE MOUNTING BRACKET (SPECIAL)	EACH	3	3					
X8302246	TEMPORARY WOOD POLE, 45 FEET, CLASS 5	EACH	1	1					
* X8440128	REMOVE EXISTING LIGHTING SYSTEM	L SUM	1	1					
* X8710049	POWER OVER ETHERNET EXTENDER	EACH	1	1					
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					
53016000	DECK SLAB REPAIR (PARTIAL)	SQ YD	43	43					
Ø Z0076600	TRAINEES	HOUR	3,000	3,000					
Ø Z0076604	TRAINEES - TRAINING PROGRAM GRADUATE	HOUR	3,000	3,000					

*= SPECIALTY ITEM Ø 0042



USER NAME = jandrews	DESIGNED - JA	REVISED -
DRAWN - JA	REVISED -	
PLOT SCALE = 0.167 " / in.	CHECKED - MAH/LDB	REVISED -
PLOT DATE = 10/17/2025	DATE - 09/14/2025	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SUMMARY OF QUANTITIES
S.N. 063–0002 HAVANA BRIDGE OVER ILLINOIS RIVER

SCALE: SHEET 4 OF 4 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
315	(140-B-BR)BP, BRR	FULTON/MASON	163	6
		CONTRACT NO. 68F50		
ILLINOIS		FED. AID PROJECT		

MODEL: Sheet
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MAINTENANCE OF TRAFFIC GENERAL NOTES

- 1
- THE CONTRACTOR MUST COORDINATE ALL LANE CLOSURES WITH THE ENGINEER.
- 2
- ALL TRAFFIC CONTROL DEVICES AND SIGNAGE REQUIRED ON IL-78 SHALL BE IN ACCORDANCE WITH APPLICABLE IDOT HIGHWAY STANDARDS AND THIS CONTRACTS DRAWINGS.
- 3
- LANE CLOSURES, SIGNING, PAVEMENT MARKINGS, AND BARRICADE PLACEMENT SHALL BE IN ACCORDANCE WITH THE LATEST HIGHWAY STANDARD DRAWINGS, OR COVERED.
- 4
- EXISTING PAVEMENT MARKINGS THAT CONFLICT WITH THE TEMPORARY PAVEMENT MARKINGS SHALL BE REMOVED OR COVERED.
- 5
- ANY EXISTING SIGNS DENOTED WITHIN THE PLAN SET THAT DO NOT APPLY TO THE REVISED TRAFFIC PATTERNS SHALL BE REMOVED OR COVERED. THAT COVERING OR REMOVAL OF GROUND MOUNTED/OVERHEAD SIGNS SHALL BE NON-DESTRUCTIVE IN NATURE.
- 6
- TWO CHANGEABLE MESSAGE SIGNS SHALL BE USED IN ADVANCE OF ROAD WORK IN BOTH DIRECTIONS ALONG US136/IL-78/IL97 FOR THE DURATION OF THE PROJECT. THE CONTRACTOR IS RESPONSIBLE FOR COORDINATING THE PLACEMENT AND MESSAGES FOR ALL CHANGEABLE MESSAGE SIGNS WITH THE ENGINEER.
- 7
- ALL TEMPORARY PAVEMENT MARKINGS SHALL BE PAVEMENT MARKING TAPE, TYPE IV OF THE LINE WIDTH SPECIFIED. THE CONTRACTOR MAY REQUEST PERMISSION TO USE EPOXY PAVEMENT MARKING IN PLACE OF PAVEMENT MARKING TAPE, TYPE IV WHEN WEATHER CONDITIONS FALL OUTSIDE THE TEMPERATURE RESTRICTIONS STATED IN THE MANUFACTURERS SPECIFICATIONS FOR INSTALLING THE TAPE.
- 8
- THE CONTRACTOR IS RESPONSIBLE FOR COORDINATING AND PROVIDING ACCESS POINTS TO THE WORK ZONE. ACCESS POINTS MUST BE APPROVED BY THE ENGINEER PRIOR TO INSTALLATION.
- 9
- "RELOCATE TEMPORARY CONCRETE BARRIER" WILL BE MEASURED FOR PAYMENT WHEN THE BARRIER IS RELOCATED AND USED AS A TRAFFIC CONTROL DEVICE.

MAINTENANCE OF TRAFFIC DISTRICT NOTES

- 1
- INSTALLATION OF REFLECTORS SHALL BE IN ACCORDANCE WITH THE TRAFFIC CONTROL STANDARDS, PLAN DETAILS, AND SPECIFICATIONS, EXCEPT THAT THE REFLECTOR SHALL BE FASTENED TO THE CONCRETE USING A MECHANICAL FASTENER SUCH AS A SCREW SUITABLE FOR USE IN CONCRETE.
- 2
- REFLECTORS MOUNTED ON TEMPORARY CONCRETE BARRIER WILL NOT BE MEASURED FOR PAYMENT AND SHALL BE INCLUDED IN THE COST OF PAY ITEMS ASSOCIATED WITH TEMPORARY CONCRETE BARRIER.

IDOT TRAFFIC CONTROL AND PROTECTION HIGHWAY STANDARDS

701006-05	OFF-ROAD OPERATIONS 2L, 2W, 15' (4.5 M) TO 24' (600 MM) FROM PAVEMENT EDGE
701311-03	LANE CLOSURE, 2L 2W, MOVING OPERATIONS DAY ONLY
701321-19	LANE CLOSURE, 2L 2W, BRIDGE REPAIR WITH BARRIER
701501-06	URBAN LANE CLOSURE, 2L, 2W, UNDIVDED
701901-11	TRAFFIC CONTROL DEVICES
704001-08	TEMPORARY CONCRETE BARRIER

MAINTENANCE OF TRAFFIC GENERAL NOTES

WORK DURING A PRE-STAGE WILL INCLUDE ALL WORK THAT IS REQUIRED TO PLACE TRAFFIC IN STAGE 1 INCLUDING BUT NOT LIMITED TO SIGNING, PAVEMENT MARKING, AND INLET AND PIPE PROTECTION

- STAGE 1
- WESTBOUND LANE CLOSED TO TRAFFIC. TEMPORARY BRIDGE TRAFFIC LIGHT TO BE USED TO MAINTAIN ONE TRAFFIC LANE EACH DIRECTION IN THE EASTBOUND LANE.
- STAGE 2
- EASTBOUND LANE CLOSED TO TRAFFIC. TEMPORARY BRIDGE TRAFFIC LIGHT TO BE USED TO MAINTAIN ONE TRAFFIC LANE EACH DIRECTION IN THE WESTBOUND LANE.
- STAGE 3
- WESTBOUND LANE CLOSED TO TRAFFIC. TEMPORARY BRIDGE TRAFFIC LIGHT TO BE USED TO MAINTAIN ONE TRAFFIC LANE EACH DIRECTION IN THE EASTBOUND LANE.
- STAGE 4
- EASTBOUND LANE CLOSED TO TRAFFIC. TEMPORARY BRIDGE TRAFFIC LIGHT TO BE USED TO MAINTAIN ONE TRAFFIC LANE EACH DIRECTION IN THE WESTBOUND LANE.
- STAGE 5A
- WESTBOUND LANE CLOSED TO TRAFFIC. TEMPORARY BRIDGE TRAFFIC LIGHT TO BE USED TO MAINTAIN ONE TRAFFIC LANE EACH DIRECTION IN THE EASTBOUND LANE.
- STAGE 5B
- EASTBOUND LANE CLOSED TO TRAFFIC. TEMPORARY BRIDGE TRAFFIC LIGHT TO BE USED TO MAINTAIN ONE TRAFFIC LANE EACH DIRECTION IN THE WESTBOUND LANE.

PERMANENT PAVEMENT MARKINGS TO BE INSTALLED AFTER STAGE WORK IS COMPLETED.



Kaskaskia

Engineering Group, LLC

Professional Engineering Firm
Professional Engineering Group

300 E. Main St., Suite 300
Bellaire, Illinois 62220
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Illinois License No. 041-084793
24-088256

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PLOT DATE =	CHECKED -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

MAINTENANCE OF TRAFFIC - BRIDGE REPAIR
GENERAL NOTES

SHEET OF SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
315	(140-B-BR)BP, BRR	FULTON/MASON	163	7
		CONTRACT NO.	68F50	
		ILLINOIS	FED. AID PROJECT	

MODEL: Sheet - Copy*1
FILE NAME: pwr/keg-pw-bentley.com:keg-pw-01/Documents/IDOT Projects/21-1089.01 PTB 200+028 Cedar St over Illinois River (ORD 10.12)/0_IDOT/CADsheets/KEG Sheets/Havana/MOT Schedule.dgn

TEMPORARY PAVEMENT MARKING SCHEDULE						
LOCATION		TEMPORARY PAVEMENT MARKING - LINE 4"- PAINT			TEMPORARY PAVEMENT MARKING - LINE 4" - TYPE IV TAPE	TEMPORARY PAVEMENT MARKING - LINE 24" - TYPE IV TAPE
		70300221			70307120	70307210
HAVANA BRDGE		(FOOT)			(FOOT)	(FOOT)
STATION	TO	STATION	WHITE	YELLOW	SKIP DASH	WHITE
STAGE 1						
334+73.4		336+22				150.0
336+22		348+40				1204.3
348+40		350+04				150.0
STAGE 2						
334+22		335+93.5				160.0
335+93.5		348+44.8				1260.4
348+44.8		349+94				150.0
For Winter Shutdown			3144.0	1933.9	302.5	
STAGE 3						
345+46		346+96				150.0
346+06		354+31				738.4
354+31		355+31				100.0
STAGE 4						
345+45		346+94				150.0
346+94		354+28				684.3
354+28		355+27				150.0
STAGE 5A						
351+56		352+04				150.0
352+04		355+47				244.0
355+47		357+96				150.0
STAGE 5B						
350+56		353+04				150.0
353+04		355+47				242.9
355+47		356+95				150.0
TOTAL:			3144.00	1933.94	302.51	6134.34
PAY TOTAL:			3144	1934	303	6135
						60

TEMPORARY CONCRETE BARRIER SCHEDULE						
LOCATION			TEMPORARY CONCRETE BARRIER	RELOCATE TEMPORARY CONCRETE BARRIER	IMPACT ATTENUATORS, TEMPORARY (NON- REDIRECTIVE), TEST LEVEL 3	IMPACT ATTENUATORS, RELOCATE (NON- REDIRECTIVE). TEST LEVEL 3
			70400100	70400200	70600250	70600350
HAVANA BRIDGE			(FOOT)	(FOOT)	(EACH)	(EACH)
STATION	TO	STATION				
STAGE 1			1250.0		2.0	
STAGE 2				1237.5		2.0
STAGE 3			787.5	Paid in Furnish for after Winter Shutdown	2.0	Paid in Furnish for after Winter Shutdown
STAGE 4				775.0		2.0
STAGE 5A				300.0		2.0
STAGE 5B				312.5		2.0
TOTAL			2037.5	2625.0	4.0	8.0
ADJUSTED TOTAL			2037.5	2625.0	4	8

TEMPORARY PAVEMENT MARKING REMOVAL SCHEDULE				
LOCATION			SHORT TERM PAVEMENT MARKING REMOVAL	PAVEMENT MARKING REMOVAL - WATER BLASTING
			70300150	78300202
HAVANA BRIDGE			(SQ FT)	(SQ FT)
STATION	TO	STATION		
331+52.7		336+00		402.2
336+00		350+00		1860.9
350+00		359+33.5		1473.1
STAGE 1			549.8	
STAGE 2			560.1	
STAGE 3			369.5	
STAGE 4			221.3	
STAGE 5a			368.2	
STAGE 5b			221.1	
TOTAL			2290.0	3736.1
ADJUSTED TOTAL			2290.0	3737

PAVEMENT MARKING SCHEDULE									
LOCATION			MODIFIED URETHANE PAVEMENT MARKING - LINE 4"			MODIFIED URETHANE PAVEMENT MARKING - LINE 8"	MODIFIED URETHANE PAVEMENT MARKING - LINE 12"	MODIFIED URETHANE PAVEMENT MARKING - LINE 24"	MODIFIED URETHANE PAVEMENT MARKING - LETTERS AND SYMBOLS
			78009004			78009008	78009012	78009024	78009000
HAVANA BRIDGE			(FOOT)			(FOOT)	(FOOT)	(FOOT)	(SQ FT)
STATION	TO	STATION	WHITE	YELLOW	SKIP DASH		WHITE	YELLOW	STOP BAR
331+52.7		336+00	894.7	200.0	111.8				
336+00		350+00	2800.1	1768.0	258.0				
350+00		359+33.5	2158.3	2020.9		286.8	33.0	28.0	40.0
TOTAL:			5853.04	3988.89	369.86	286.79	33.00	28.00	46.80
PAY TOTAL:			5854	3989	370	287	33	28	47



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24-0080266

USER NAME =

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PLOT SCALE =

DRAWN -

PLOT DATE =

REVISD -

REVISD -

REVISD -

REVISD -

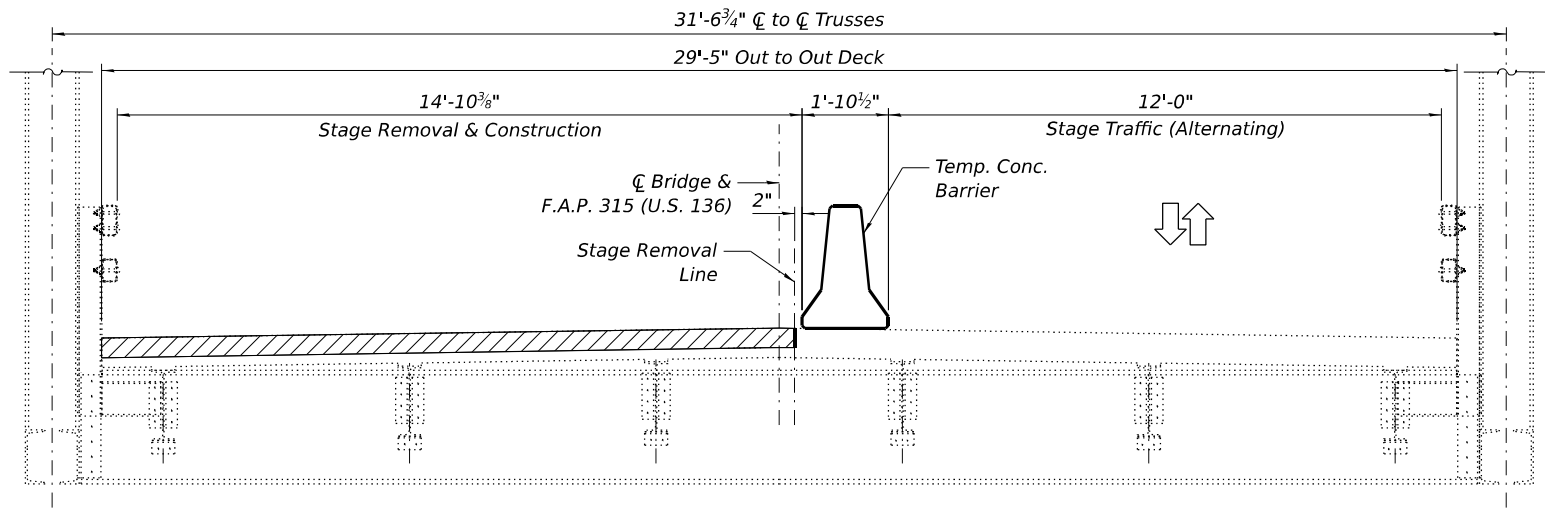
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

MAINTENANCE OF TRAFFIC - BRIDGE REPAIR
SCHEDULE OF QUANTITIES

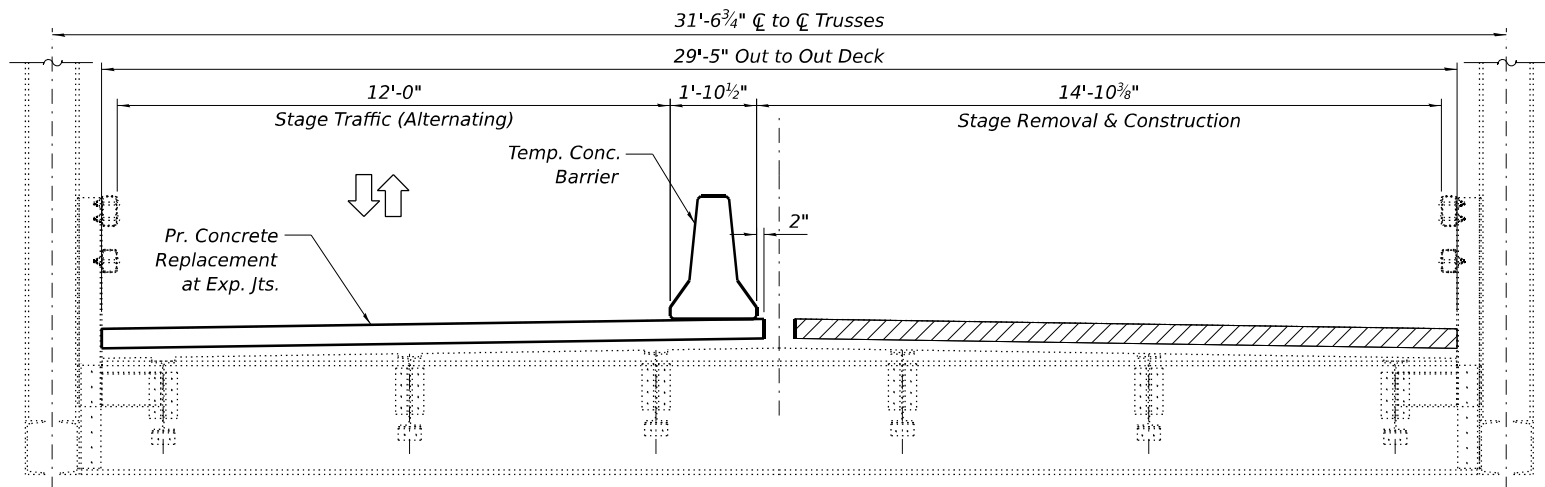
SHEET OF SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
315	(140+6-8R)BP, BRR	FULTON/MASON	163	8
			CONTRACT NO.	68F50
		ILLINOIS	FED. AID PROJECT	

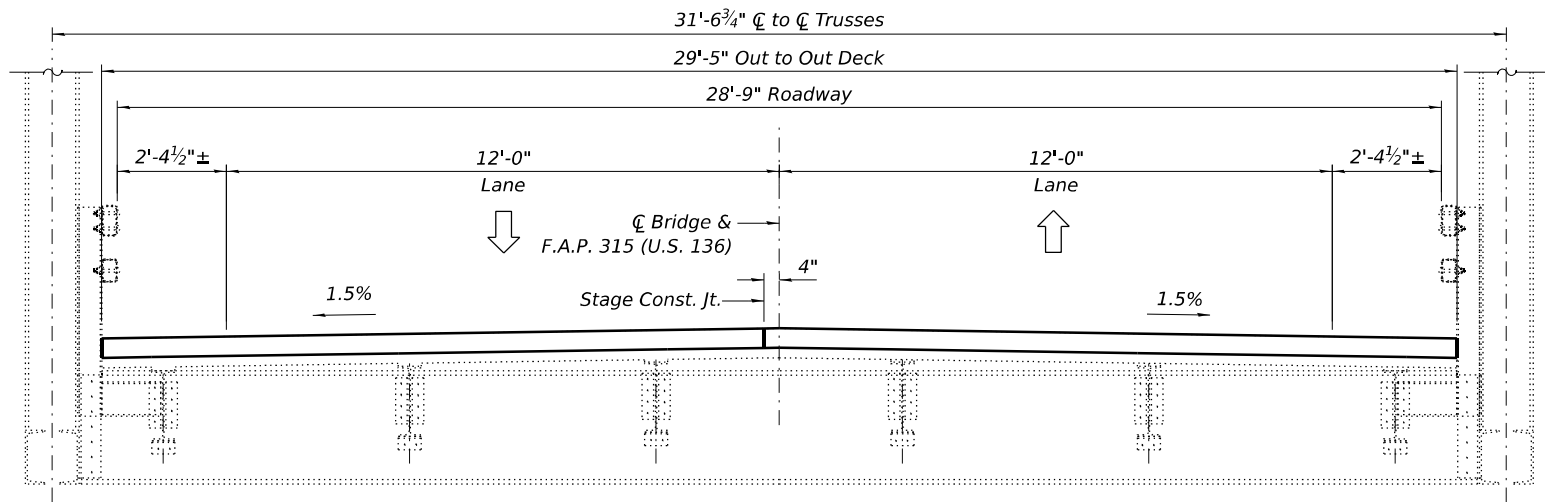
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10/3/2025 9:56:08 AM



STAGE 1 / 3 / 5A CROSS SECTION
(Looking East)



STAGE 2 / 4 / 5B CROSS SECTION
(Looking East)



FINAL CROSS SECTION
(Looking East)

- Stage 1: Concrete replacement at expansion joints and bridge deck patching from the west abutment to pier 6 in the westbound lane.
- Stage 2: Concrete replacement at expansion joints and bridge deck patching from the west abutment to pier 6 in the eastbound lane.
- Stage 3: Concrete replacement at expansion joints and bridge deck patching from pier 6 to the end of joint repair (truss member L34) in the westbound lane.
- Stage 4: Concrete replacement at expansion joints and bridge deck patching from pier 6 to the end of joint repair (truss member L34) in the eastbound lane.
- Stage 5a: Bridge deck patching from truss member L34 to east abutment in the westbound lane.
- Stage 5b: Bridge deck patching from truss member L34 to east abutment in the eastbound lane.

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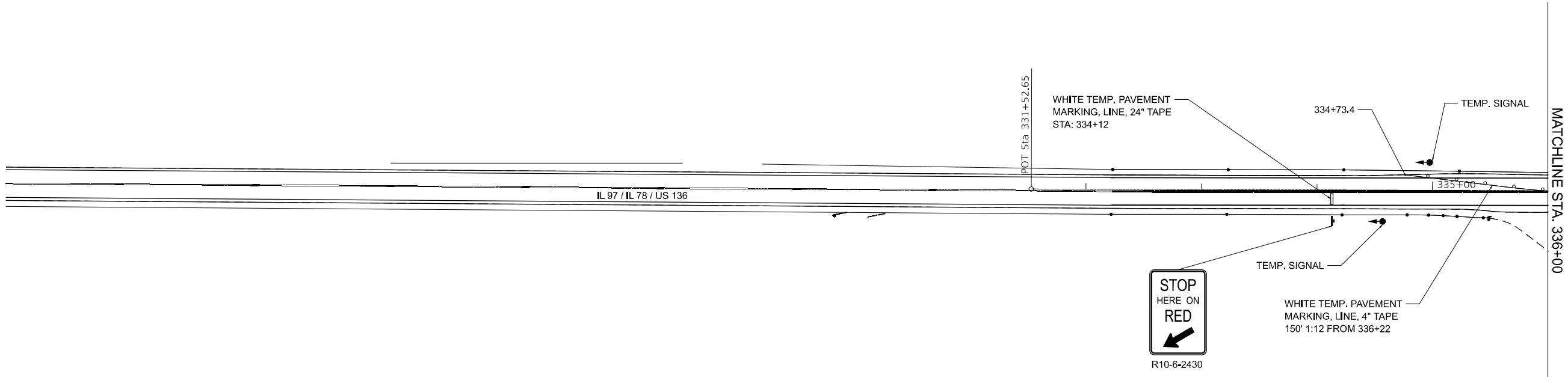
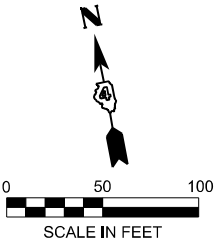
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

MAINTENANCE OF TRAFFIC - BRIDGE REPAIR
TYPICAL SECTIONS

SHEET OF SHEETS

F.A.P. RTE.	SECTION		COUNTY	TOTAL SHEETS	SHEET NO.
315	(140-B-8R)BP, BRR		FULTON/MASON	163	9
			CONTRACT NO. 68F50		
		ILLINOIS	FED. AID PROJECT		

MODEL: MOT Phase 1 - sht 01
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Refer to IDOT Highway Standard 701321: Lane Closure, 2L 2W, Bridge Repair With Barrier for all advanced signing and items not shown.



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PLOT DATE =	CHECKED -	REVISED -

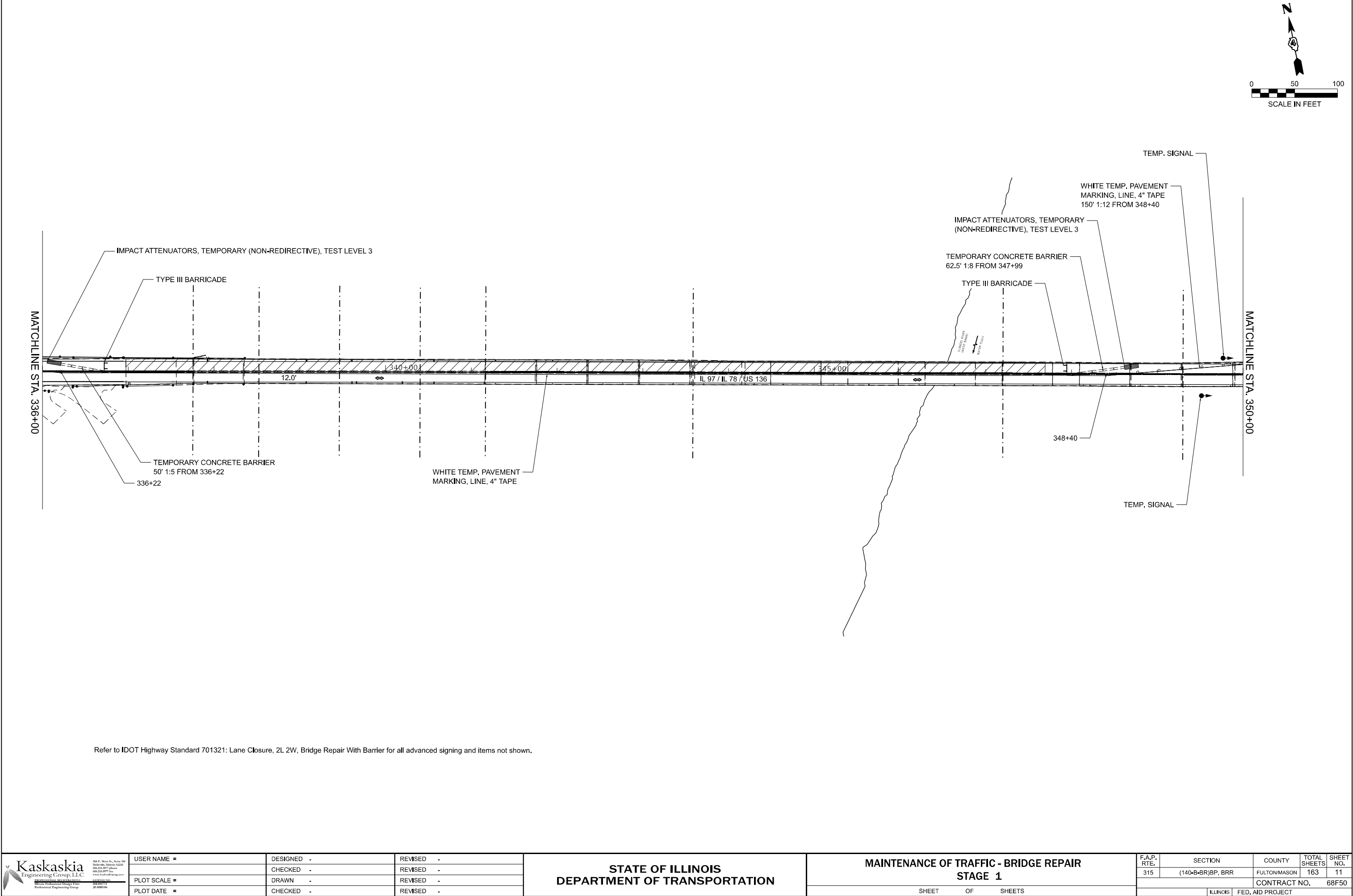
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

MAINTENANCE OF TRAFFIC - BRIDGE REPAIR
STAGE 1

SHEET OF SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
315	(140-B-BR)BP, BRR	FULTON/MASON	163	10
CONTRACT NO.			68F50	
		ILLINOIS	FED. AID PROJECT	

MODEL: MOT Phase 1 - sht 02
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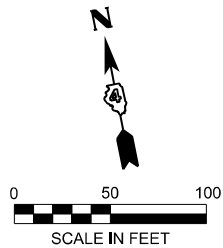
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PLOT DATE =	CHECKED -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

MAINTENANCE OF TRAFFIC - BRIDGE REPAIR STAGE 1	
SHEET	OF SHEETS

F.A.P. RTE. 315	SECTION (140-B-BR)BP, BRR	COUNTY FULTON/MASON	TOTAL SHEETS 163	SHEET NO. 11
CONTRACT NO. 68F50			ILLINOIS FED. AID PROJECT	

EXIST. CURVE 136_CURVE1
PI STA. = 355+63.70
I = 12° 19' 59" (LT)
D = 11° 27' 33"
R = 500.00'
T = 54.02'
L = 107.63'
E = 2.91'
e = _____
T.R. = _____
S.E. RUN = _____
P.C. STA. = 355+09.68
P.T. STA. = 356+17.31



MATCHLINE STA. 350+00

WHITE TEMP. PAVEMENT
MARKING, LINE, 24" TAPE
350+23

350+04

IL 97 / IL 78 / US 136

P.C. Sta 355+09.68

P.T. Sta 356+17.31

P. Sta 355+63.70

S. WATER ST.

S. WATER ST.

360+00

US 136/78/97

POT Sta 362+34.76

Refer to IDOT Highway Standard 701321: Lane Closure, 2L 2W, Bridge Repair With Barrier for all advanced signing and items not shown.

MODEL: MOT Phase 1 - sht 03
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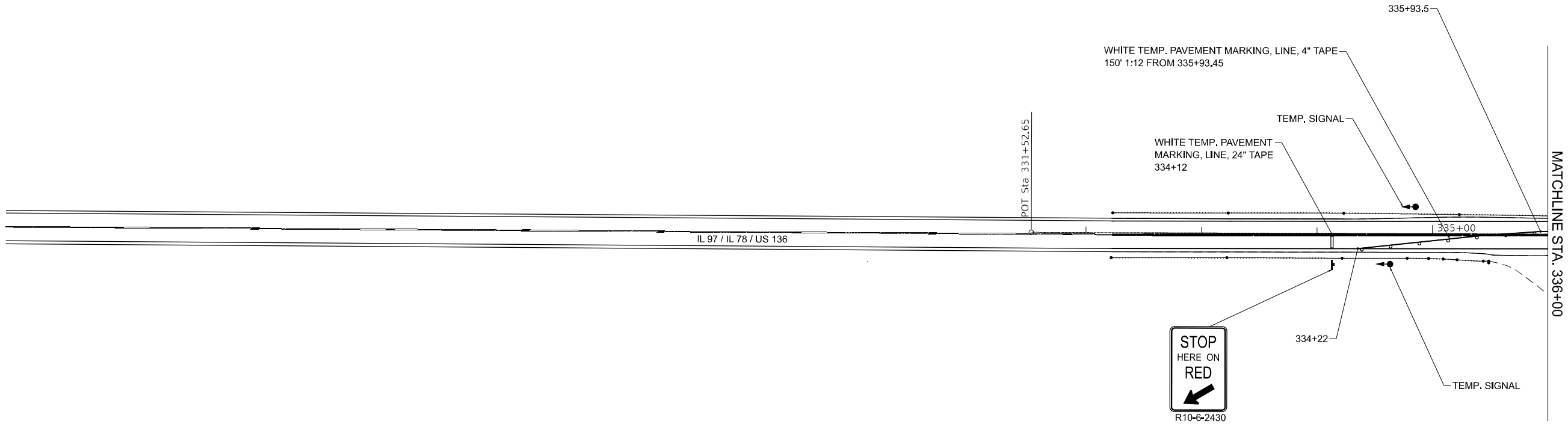
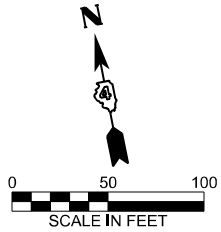
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

MAINTENANCE OF TRAFFIC - BRIDGE REPAIR
STAGE 1

SHEET OF SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
315	(140-B-8R)BP, BRR	FULTON/MASON	163	12
CONTRACT NO.			68F50	
		ILLINOIS	FED. AID PROJECT	

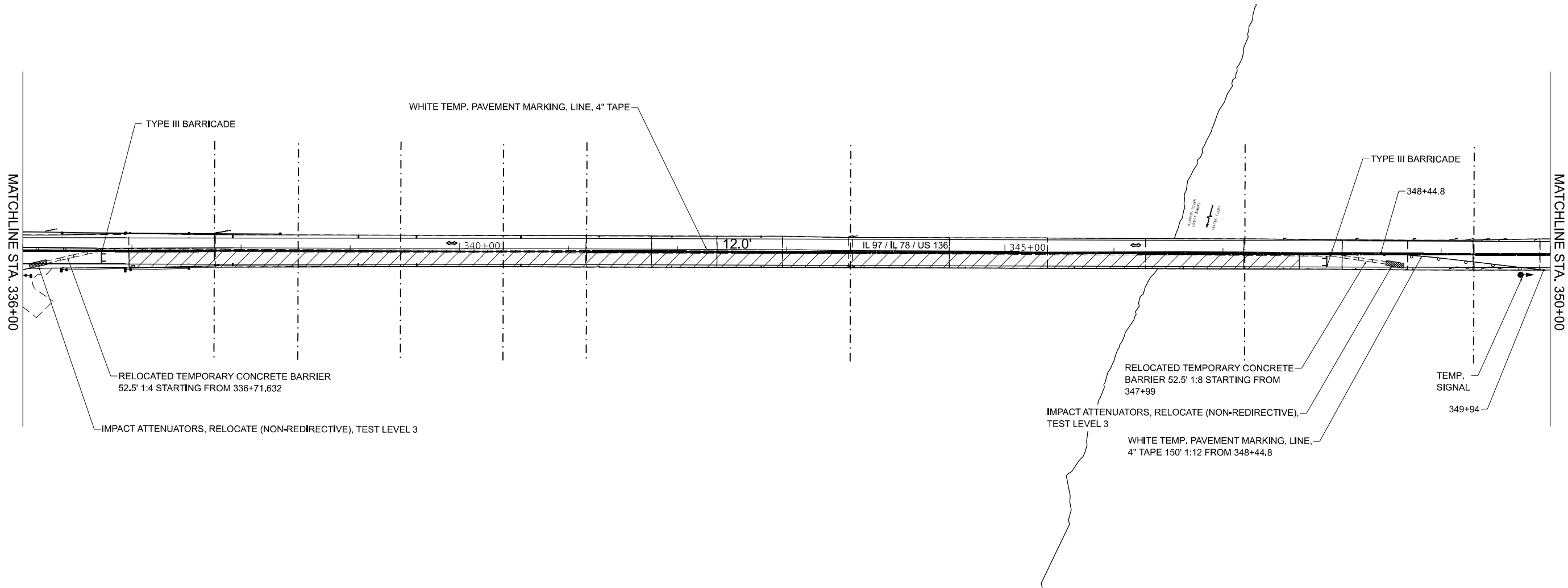
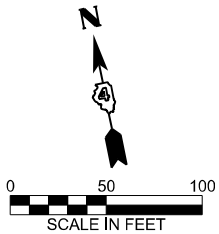
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	PLOT SCALE =	CHECKED -	REVISED -			315	(140-B-BR)BP, BRR	FULTON/MASON	163	13	
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		CHECKED -	REVISED -			SHEET OF SHEETS		ILLINOIS FED. AID PROJECT			

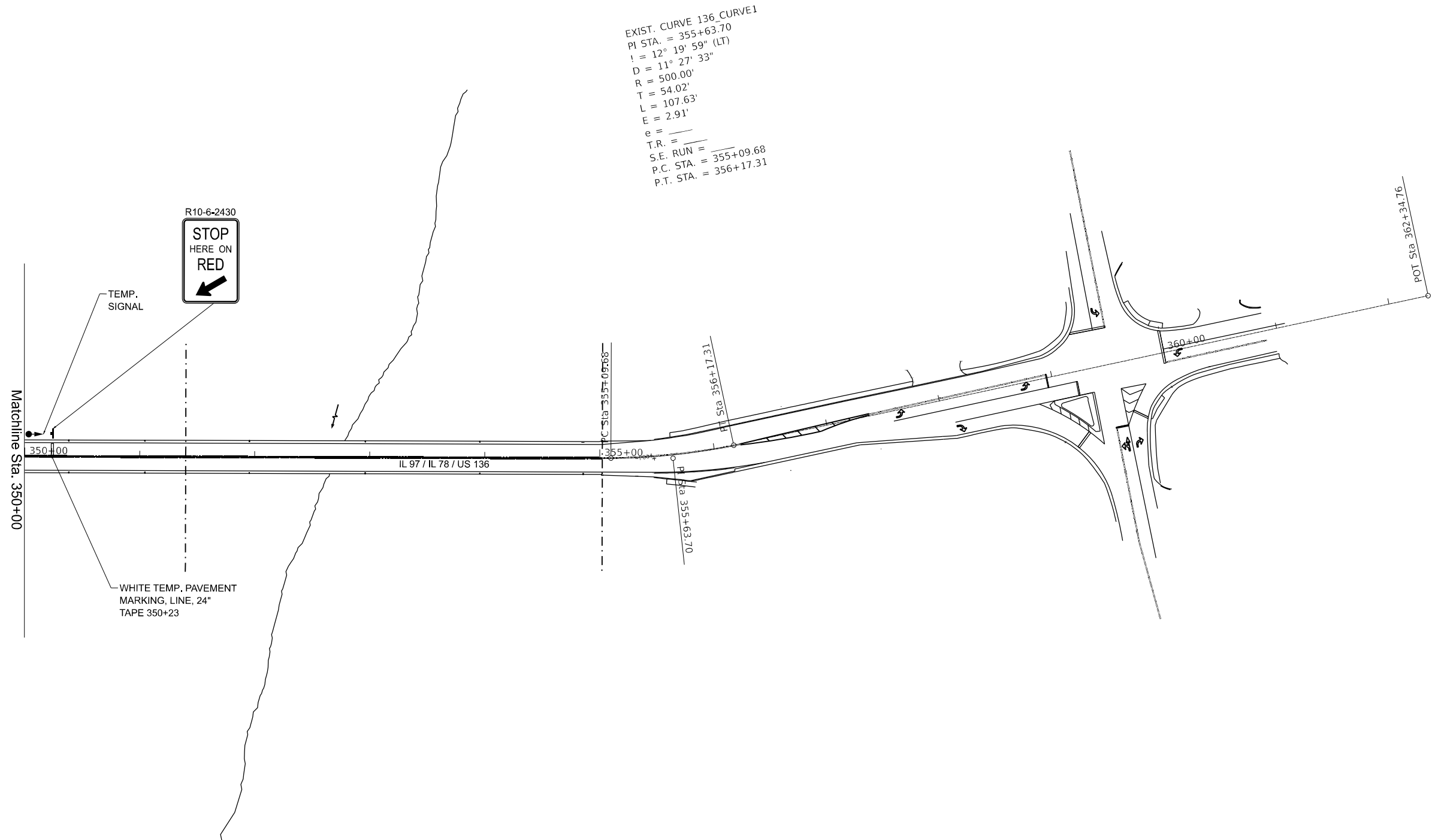
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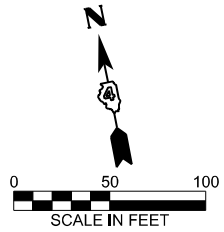
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 Kaskaskia Engineering Group, L.L.C. Professional Engineering Group 200 E. Main St., Suite 300 Peotone, Illinois 60468 630.233.5877 phone 630.233.5877 fax www.kaskaskiaeng.com 10/2/2025 10/2/2025 24-088256	USER NAME =	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	MAINTENANCE OF TRAFFIC - BRIDGE REPAIR STAGE 2	SHEET OF SHEETS	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	CHECKED -	CHECKED -	REVISED -				315	(140-B-8R)BP, BRR	FULTON/MASON	163	14
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	PLOT DATE =	CHECKED -	REVISED -				ILLINOIS		FED. AID PROJECT		

MODEL: MOT Phase 2 - sht 03
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EXIST. CURVE 136_CURVE1
PI STA. = 355+63.70
I = 12° 19' 59" (LT)
D = 11° 27' 33"
R = 500.00'
T = 54.02'
L = 107.63'
E = 2.91'
e = —
T.R. = —
S.E. RUN = —
P.C. STA. = 355+09.68
P.T. STA. = 356+17.31



Refer to IDOT Highway Standard 701321: Lane Closure, 2L 2W, Bridge Repair With Barrier for all advanced signing and items not shown.



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PLOT SCALE =	DRAWN -	REVISED -
PLOT DATE =	CHECKED -	REVISED -

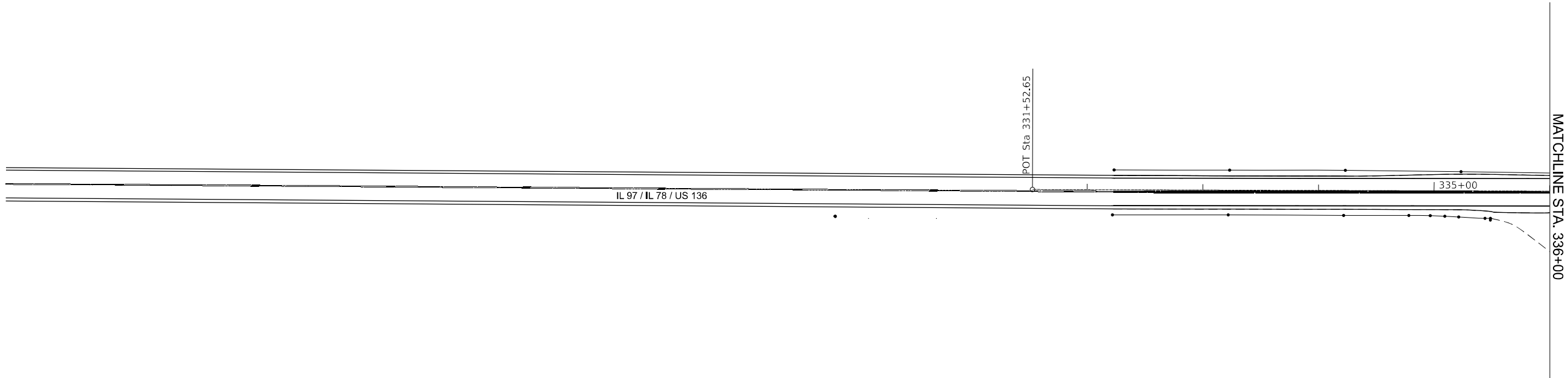
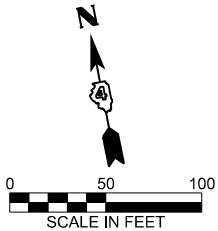
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

MAINTENANCE OF TRAFFIC - BRIDGE REPAIR
STAGE 2

SHEET OF SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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CONTRACT NO.			68F50	
		ILLINOIS	FED. AID PROJECT	

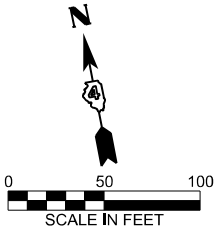
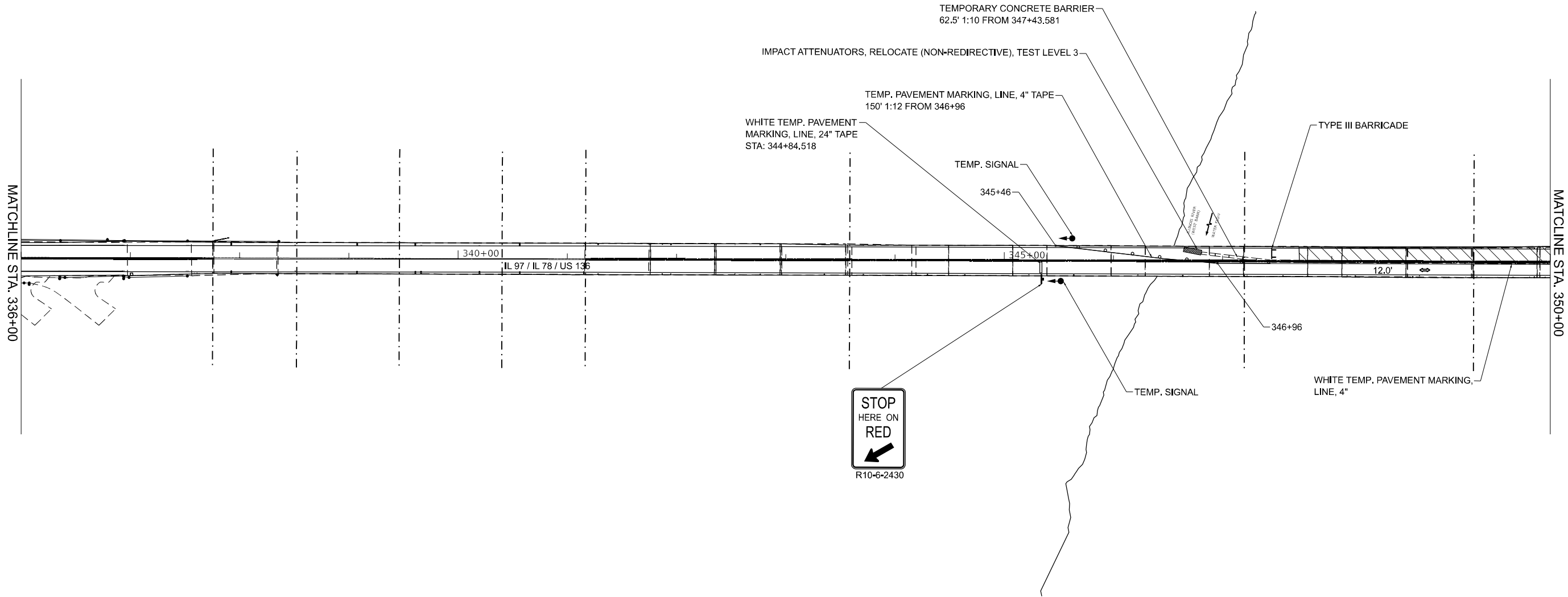
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		CHECKED -	REVISED -			315	(140-B-BR)BP, BRR	FULTON/MASON	163	16
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	PLOT DATE =	CHECKED -	REVISED -					ILLINOIS	FED. AID PROJECT	
	SHEET OF SHEETS									

MODEL: MOT Phase 3 - sht 02
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Refer to IDOT Highway Standard 701321: Lane Closure, 2L 2W, Bridge Repair With Barrier for all advanced signing and items not shown.



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24-0080266

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PLOT SCALE =	DRAWN -	REVISED -
PLOT DATE =	CHECKED -	REVISED -

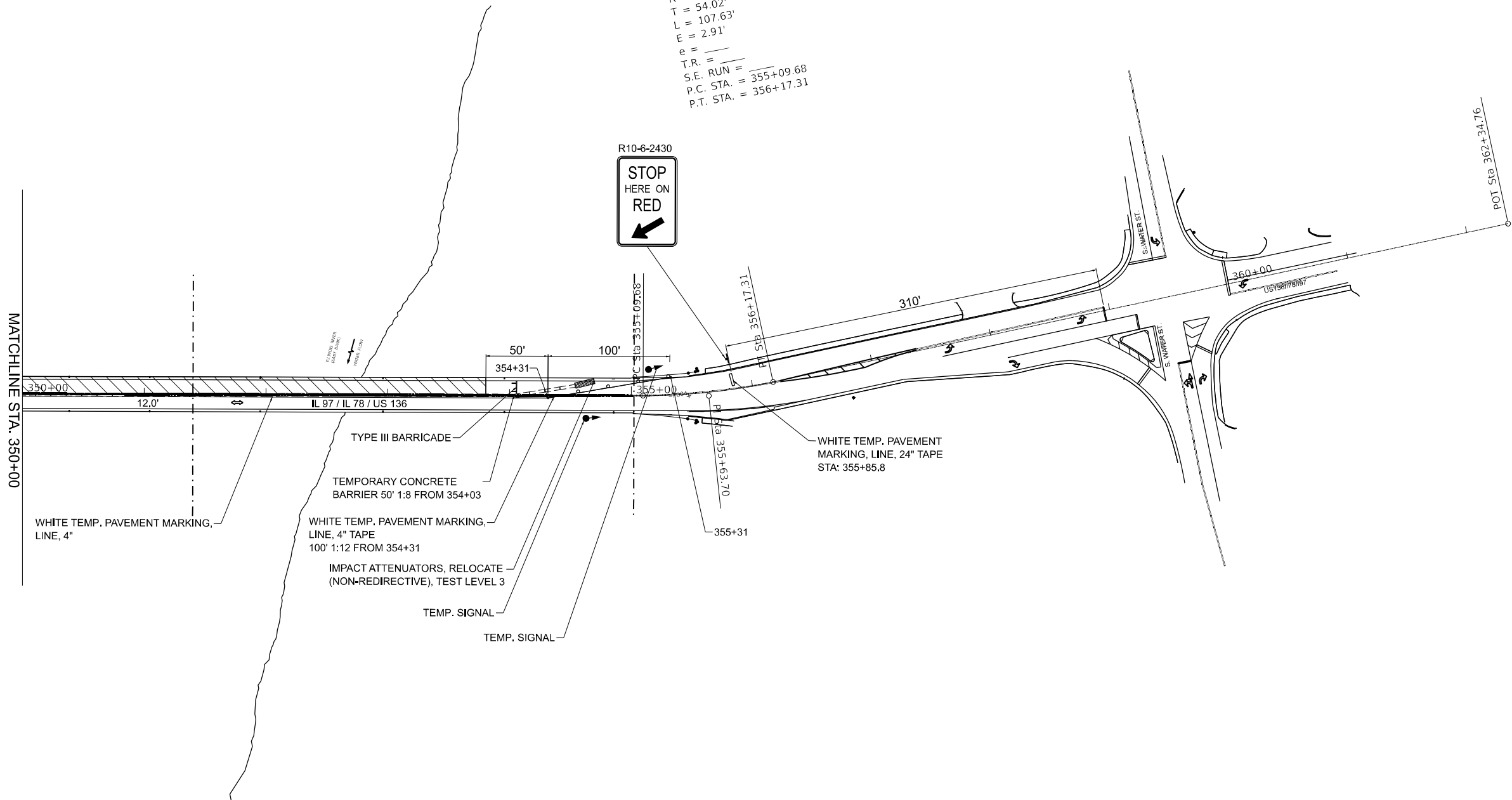
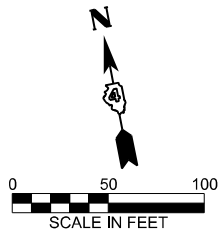
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

MAINTENANCE OF TRAFFIC - BRIDGE REPAIR
STAGE 3

SHEET OF SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
315	(140-B-8R)BP, BRR	FULTON/MASON	163	17
CONTRACT NO.			68F50	
		ILLINOIS	FED. AID PROJECT	

EXIST. CURVE 136_CURVE1
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D = 11° 27' 33"
R = 500.00'
T = 54.02'
L = 107.63'
E = 2.91'
e = —
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S.E. RUN = 355+09.68
P.C. STA. = 356+17.31
P.T. STA. = 356+17.31



Refer to IDOT Highway Standard 701321: Lane Closure, 2L 2W, Bridge Repair With Barrier for all advanced signing and items not shown.

MODEL: MOT Phase 3 - sht 03
FILE NAME: pwr/keg/pw-bentley.com:keg-pw-01/Documents/IDOT Projects/21-1089.01 PTB 200-428 Cedar St. over Illinois River (ORD 10.12)/0_IDOT/CADsheets/KEG Sheets/Havana/Havana Bridge MOT Phase 3.dgn



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J. J. J. J. J.
24-088756

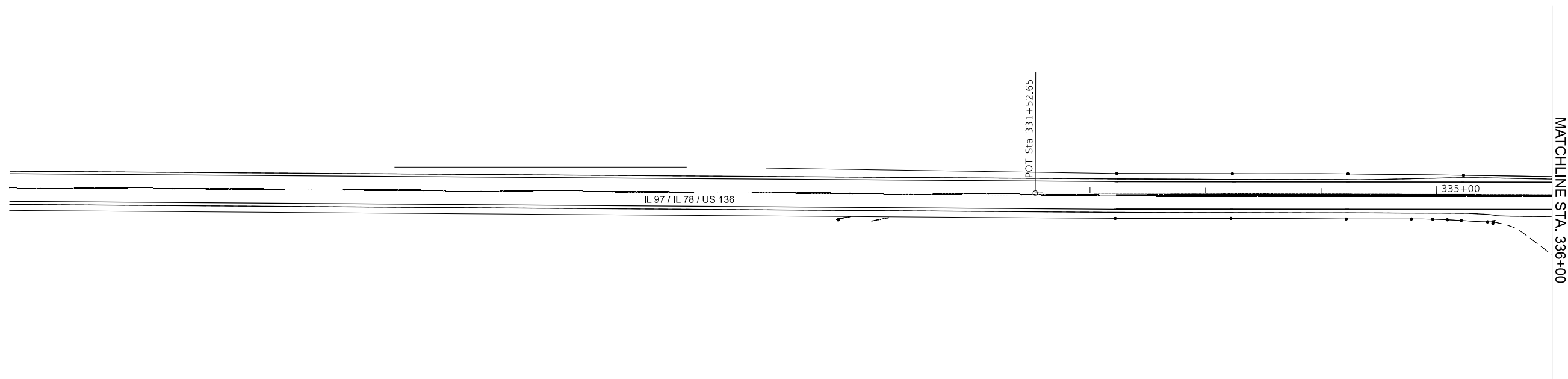
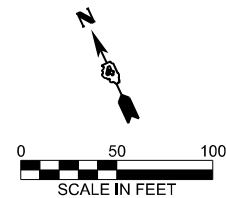
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PLOT SCALE =	DRAWN -	REVISED -
PLOT DATE =	CHECKED -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

MAINTENANCE OF TRAFFIC - BRIDGE REPAIR
STAGE 3

SHEET OF SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
315	(140-B-8R)BP, BRR	FULTON/MASON	163	18
		CONTRACT NO. 68F50		
ILLINOIS		FED. AID PROJECT		



Refer to IDOT Highway Standard 701321: Lane Closure, 2L 2W, Bridge Repair With Barrier for all advanced signing and items not shown.

USER NAME =	DESIGNED -	REVISED -
	CHECKED -	REVISED -
PLOT SCALE =	DRAWN -	REVISED -
PLOT DATE =	CHECKED -	REVISED -

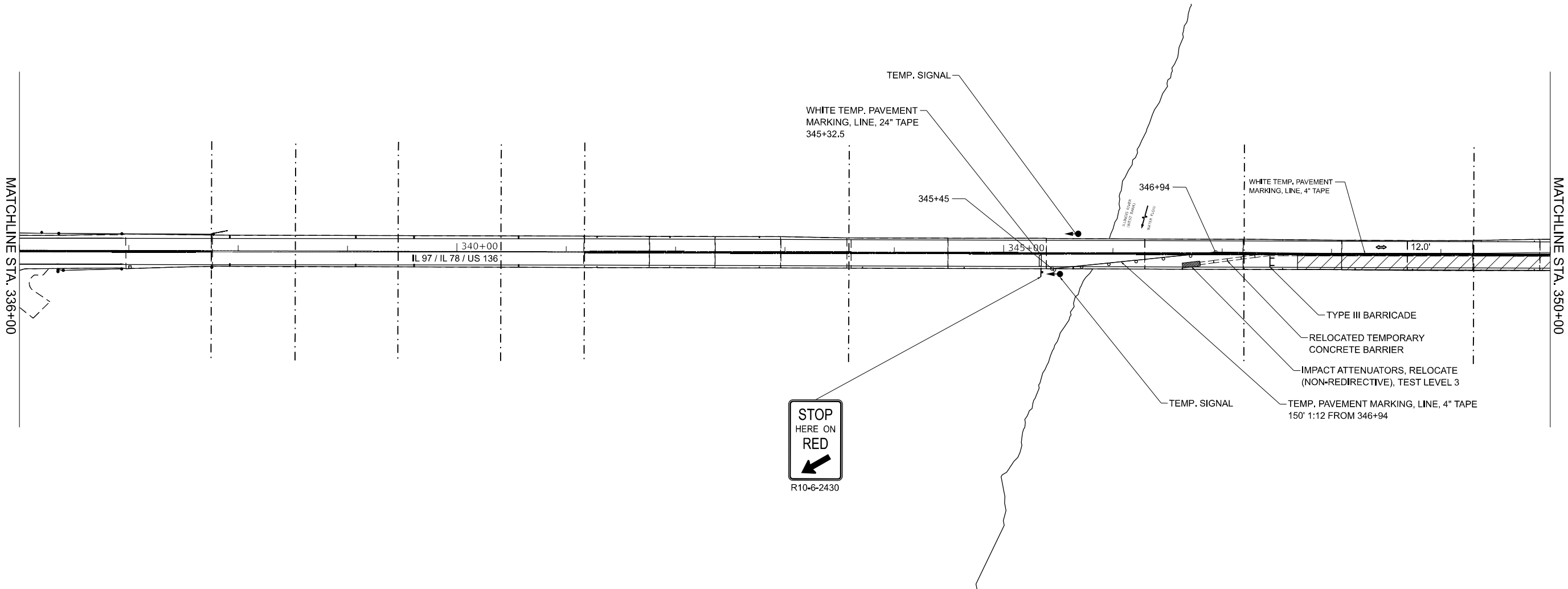
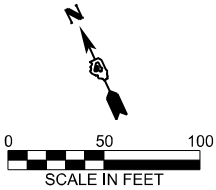
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

MAINTENANCE OF TRAFFIC - BRIDGE REPAIR
STAGE 4

SHEET OF SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
315	(140-B-BR)BP, BRR	FULTON/MASON	163	19
		CONTRACT NO.		68F50
ILLINOIS		FED. AID PROJECT		

MODEL: MOT Phase 4 - sht 02
FILE NAME: pwr/keg-pw-bentley.com:keg-pw-01/Documents/IDOT Projects/21-1089.01 PTB 200-428 Cedar St over Illinois River (ORD 10.12)/0_IDOT/CADsheets/KEG Sheets/Havana/Havana Bridge MOT Phase 4.dgn



Refer to IDOT Highway Standard 701321: Lane Closure, 2L 2W, Bridge Repair With Barrier for all advanced signing and items not shown.

 Kaskaskia Engineering Group, LLC Professional Engineering Group 300 E. Main St., Suite 300 Bellaire, Illinois 62220 618.223.2877 phone 618.223.2877 fax www.kaskaskiaeng.com LICENSE NO. 041-0000000 Illinois Professional Design Firm Professional Engineering Group	USER NAME =	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	MAINTENANCE OF TRAFFIC - BRIDGE REPAIR STAGE 4	F.A.P. RTE.		SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	CHECKED -	CHECKED -	REVISED -			315	(140-B-8R)BP, BRR		FULTON/MASON	163	20
	PLOT SCALE =	DRAWN -	REVISED -					CONTRACT NO.		68F50	
	PLOT DATE =	CHECKED -	REVISED -					ILLINOIS	FED. AID PROJECT		
SHEET						OF	SHEETS				

EXIST. CURVE 136_CURVE1
PI STA. = 355+63.70
I = 12° 19' 59" (LT)
D = 11° 27' 33"
R = 500.00'
T = 54.02'
L = 107.63'
E = 2.91'
e = _____
T.R. = _____
S.E. RUN = _____
P.C. STA. = 355+09.68
P.T. STA. = 356+17.31

R10-6-2430



TEMP. PAVEMENT
MARKING, LINE, 24" TAPE
STA:355+85.8

TEMP. SIGNAL

ROADWAY CENTERLINE

WHITE TEMP. PAVEMENT
MARKING, LINE, 4" TAPE

MATCHLINE STA. 350+00

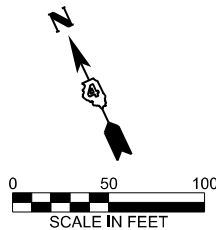
TYPE III BARRICADE

RELOCATED TEMPORARY
CONCRETE BARRIER

IMPACT ATTENUATORS, RELOCATE
(NON-REDIRECTIVE), TEST LEVEL 3

WHITE TEMP. PAVEMENT MARKING, LINE,
4" TAPE 100' 1:13.5 FROM 354+28

Refer to IDOT Highway Standard 701321: Lane Closure, 2L 2W, Bridge Repair With Barrier for all advanced signing and items not shown.



MODEL: MOT Phase 4 - sht 03
FILE NAME: pwr/keg-pw-bentley.com:keg-pw-01/Documents/IDOT Projects/21-1089.01 PTB 200-428 Cedar St over Illinois River (ORD 10.12)/0_IDOT/CADsheets/KEG Sheets/Havana/Havana Bridge MOT Phase 4.dgn

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26-008726

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	CHECKED -	REVISED -
PLOT SCALE =	DRAWN -	REVISED -
PLOT DATE =	CHECKED -	REVISED -

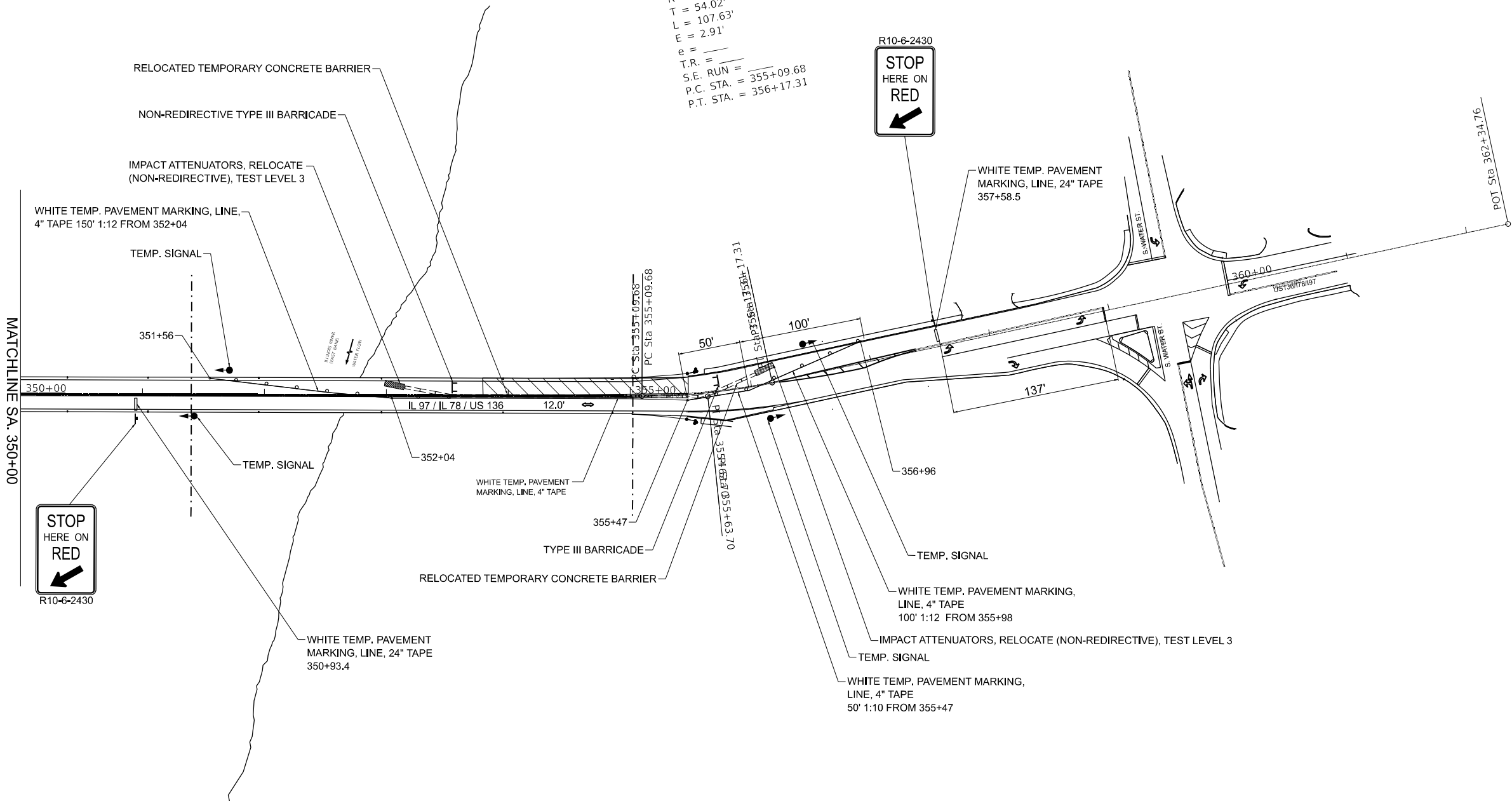
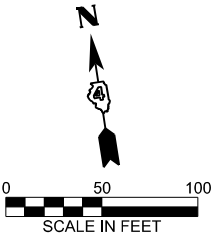
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

MAINTENANCE OF TRAFFIC - BRIDGE REPAIR
STAGE 4

SHEET OF SHEETS

F.A.P. RTE.	SECTION		COUNTY	TOTAL SHEETS	SHEET NO.
315	(140-B-8R)BP, BRR		FULTON/MASON	163	21
			CONTRACT NO.		68F50
ILLINOIS			FED. AID PROJECT		

EXIST. CURVE 136 CURVE 1
PI STA. = 355+63.70
I = 12° 19' 59" (LT)
D = 11° 27' 33"
R = 500.00'
T = 54.02'
L = 107.63'
E = 2.91'
e = —
T.R. = —
S.E. RUN = 355+09.68
P.C. STA. = 356+17.31
P.T. STA. = 356+17.31



For Stage 5A the bridge will have one lane of bi-directional traffic for a maximum of 2 weeks.

MODEL: MOT Phase 3a • sht 03
FILE NAME: pwr/keg-pw-bentley.com:keg-pw-01/Documents/IDOT Projects/211089.01 PTB 200-428 Cedar St. over Illinois River (ORD 10.12)/0_IDOT/CADsheets/KEG Sheets/Havana/Havana Bridge MOT Phase 5a.dgn

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618.223.2877 phone
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www.kaskaskiaeng.com

Professional Engineer
J. J. J. J. J.
Professional Engineering Group

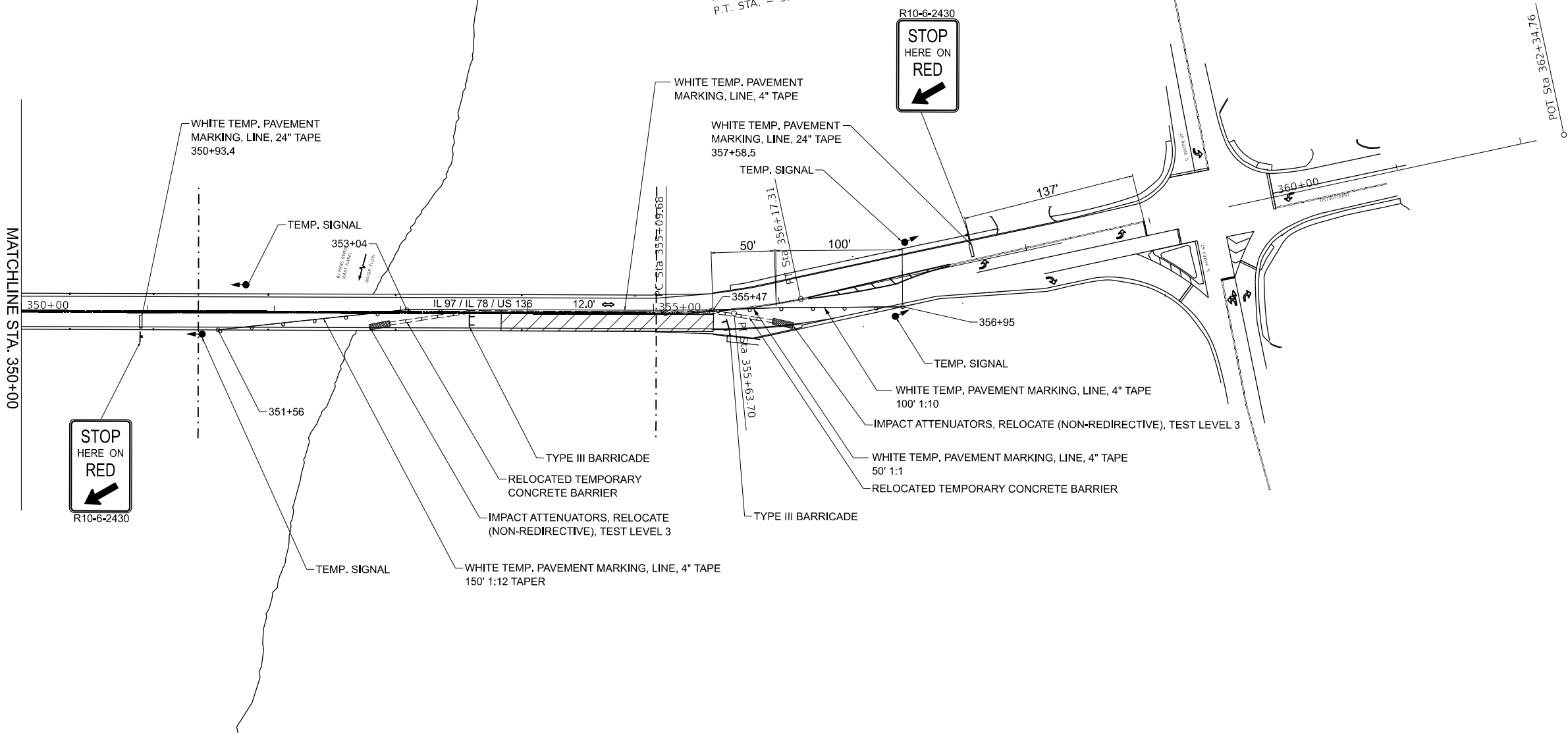
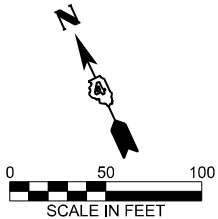
USER NAME =	DESIGNED -	REVISED -
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PLOT SCALE =	DRAWN -	REVISED -
PLOT DATE =	CHECKED -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

MAINTENANCE OF TRAFFIC - BRIDGE REPAIR	
STAGE 5a	
SHEET	OF SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
315	(140-B-8R)BP, BRR	FULTON/MASON	163	22
CONTRACT NO.				68F50
ILLINOIS		FED. AID PROJECT		

EXIST. CURVE 136_CURVE1
PI STA. = 355+63.70
I = 12° 19' 59" (LT)
D = 11° 27' 33"
R = 500.00'
T = 54.02'
L = 107.63'
E = 2.91'
e = _____
T.R. = _____
S.E. RUN = _____
P.C. STA. = 355+09.68
P.T. STA. = 356+17.31



For Stage 5A the bridge will have one lane of bi-directional traffic for a maximum of 2 weeks.

MODEL: MOT Phase 4a • sht 03
FILE NAME: pwr/keg/pw-bentley.com:keg-pw-01/Documents/IDOT Projects/211089.01 PTB 200-428 Cedar St over Illinois River (ORD 10.12)/0_IDOT/CADsheets/KEG Sheets/Havana/Havana Bridge MOT Phase 5b.dgn

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Professional Engineer
Illinois License No. 041-084733
24-0080266

USER NAME =	DESIGNED -	REVISED -
	CHECKED -	REVISED -
PLOT SCALE =	DRAWN -	REVISED -
PLOT DATE =	CHECKED -	REVISED -

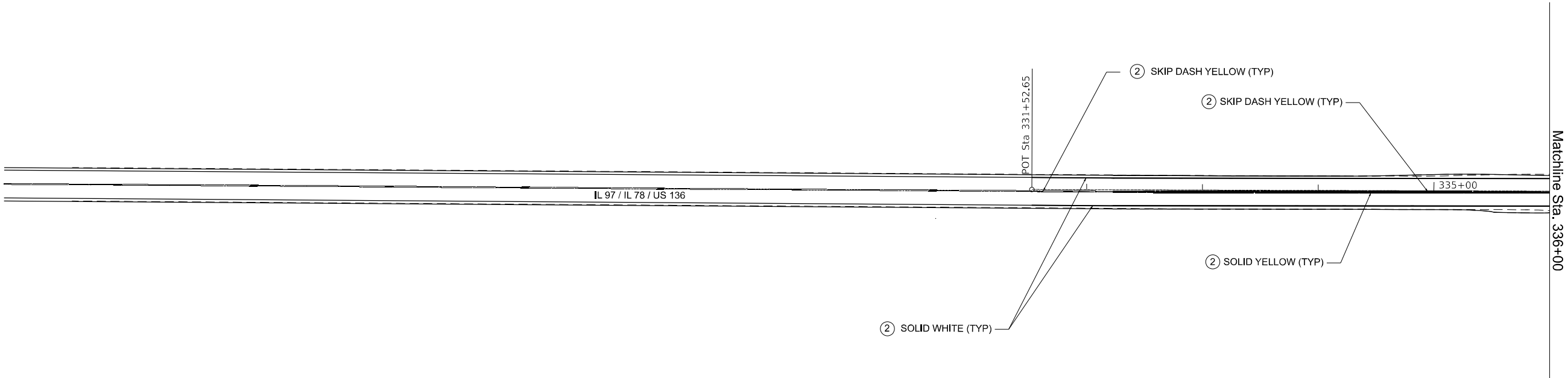
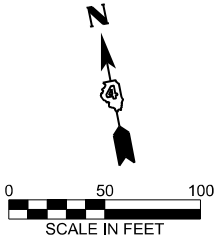
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

MAINTENANCE OF TRAFFIC - BRIDGE REPAIR
STAGE 5B

SHEET OF SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
315	(140-B-8R)BP, BRR	FULTON/MASON	163	23
CONTRACT NO.			68F50	
		ILLINOIS	FED. AID PROJECT	

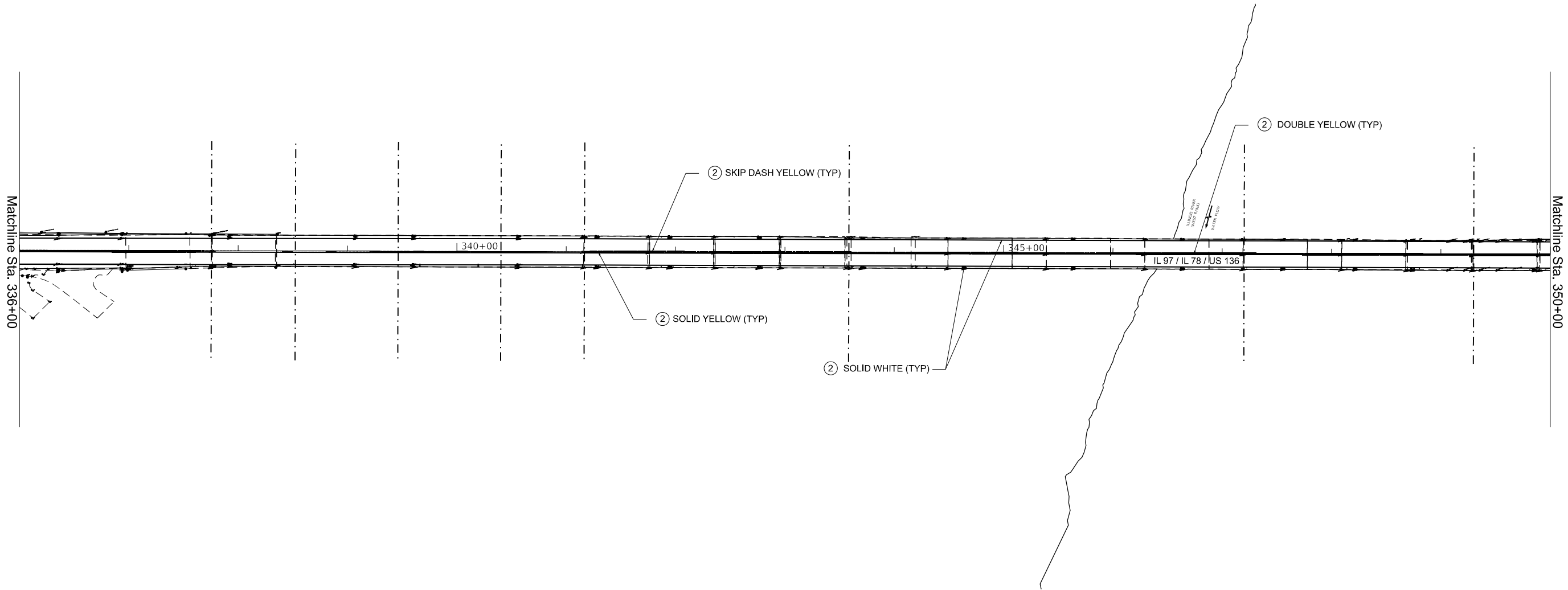
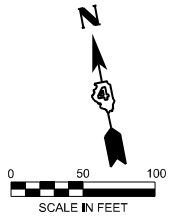
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FILE NAME: pwr\\kaskia\\bentley.com\\kaskia\\DOT Projects\\21-1089.01 PTB 200-428 Cedar St over Illinois River (ORD 10.12)\\0_IDOT\\CADsheets\\KEG Sheets\\Havana\\Havana Bridge PMK.dgn



LEGEND

- ① MODIFIED URETHANE PAVEMENT MARKING - LETTERS AND SYMBOLS
- ② MODIFIED URETHANE PAVEMENT MARKING - LINE 4"
- ③ MODIFIED URETHANE PAVEMENT MARKING - LINE 6"
- ④ MODIFIED URETHANE PAVEMENT MARKING - LINE 8"
- ⑤ MODIFIED URETHANE PAVEMENT MARKING - LINE 12"
- ⑥ MODIFIED URETHANE PAVEMENT MARKING - LINE 24"

 300 E. Main St., Suite 300 Bellaire, Illinois 62220 618.223.2877 phone 618.223.2877 fax www.kaskaskiaeng.com ILLINOIS NO. 084793 Professional Engineering Group 26-088026	USER NAME =		DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	PAVEMENT MARKING PLANS S.N. 063-0002 HAVANA BRIDGE OVER ILLINOIS RIVER	F.A.P. RTE.		SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	PLOT SCALE =		CHECKED -	REVISED -			315	(140-B-BR)BP, BRR	FULTON/MASON	163	24	
	PLOT DATE =		DRAWN -	REVISED -					CONTRACT NO.		68F50	
			CHECKED -	REVISED -			SHEET OF SHEETS					



LEGEND

- ① MODIFIED URETHANE PAVEMENT MARKING - LETTERS AND SYMBOLS
- ② MODIFIED URETHANE PAVEMENT MARKING - LINE 4"
- ③ MODIFIED URETHANE PAVEMENT MARKING - LINE 6"
- ④ MODIFIED URETHANE PAVEMENT MARKING - LINE 8"
- ⑤ MODIFIED URETHANE PAVEMENT MARKING - LINE 12"
- ⑥ MODIFIED URETHANE PAVEMENT MARKING - LINE 24"

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PAVEMENT MARKING PLANS
S.N. 063-0002 HAVANA BRIDGE OVER ILLINOIS RIVER

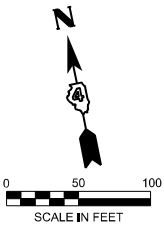
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
315	(140-B-8R)BP, BRR	FULTON/MASON	163	25
CONTRACT NO.			68F50	
		ILLINOIS	FED. AID PROJECT	

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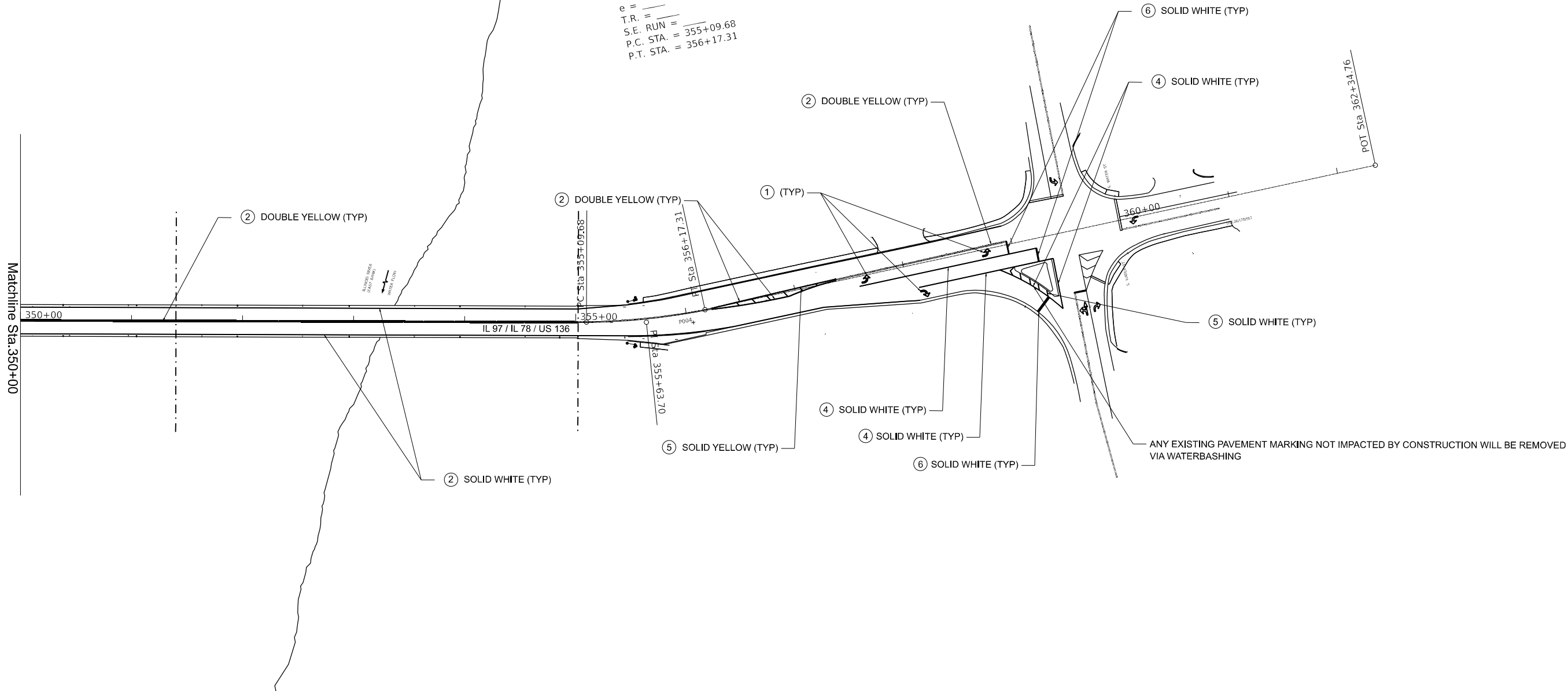
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618.233.5877 fax
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24-088726

MODEL: MOT Phase 2 - sht 02
FILE NAME: pwr\kgs\pw.bentley.com\kgs\pw\01\Documents\DOT Projects\21\1089.01 PTB 200-428 Cedar St over Illinois River (ORD 10.12)\0_IDOT\CADsheets\KEG Sheets\Havana\Havana Bridge PMK.dgn



EXIST. CURVE 136_CURVE1
PI STA. = 355+63.70
I = 12° 19' 59" (LT)
D = 11° 27' 33"
R = 500.00'
T = 54.02'
L = 107.63'
E = 2.91'
e = —
T.R. = —
S.E. RUN = 355+09.68
P.C. STA. = 356+17.31
P.T. STA. = 356+17.31



LEGEND

- ① MODIFIED URETHANE PAVEMENT MARKING - LETTERS AND SYMBOLS
- ② MODIFIED URETHANE PAVEMENT MARKING - LINE 4"
- ③ MODIFIED URETHANE PAVEMENT MARKING - LINE 6"
- ④ MODIFIED URETHANE PAVEMENT MARKING - LINE 8"
- ⑤ MODIFIED URETHANE PAVEMENT MARKING - LINE 12"
- ⑥ MODIFIED URETHANE PAVEMENT MARKING - LINE 24"

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PAVEMENT MARKING PLANS
S.N. 063-0002 HAVANA BRIDGE OVER ILLINOIS RIVER

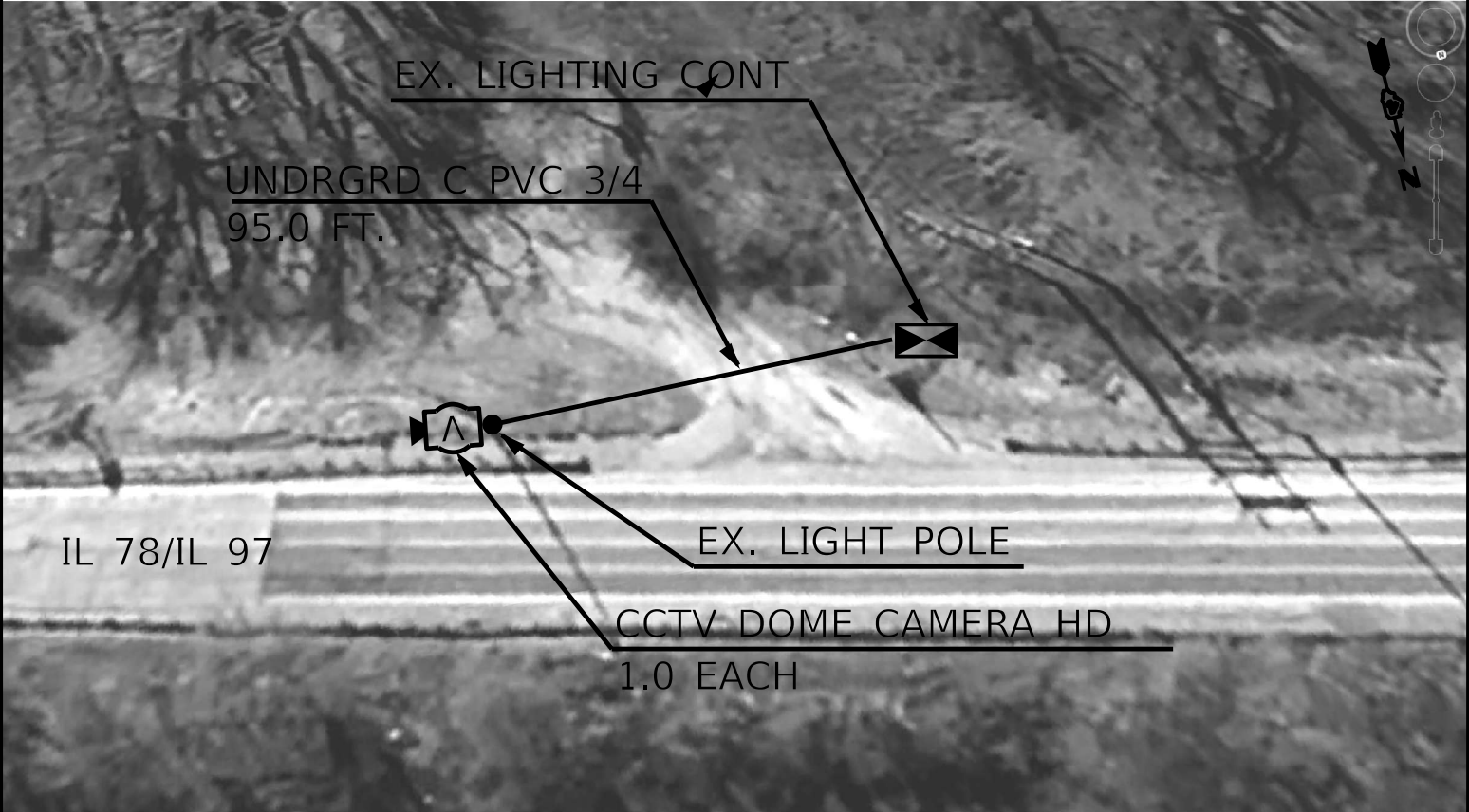
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
315	(140-B-8R)BP, BRR	FULTON/MASON	163	26
CONTRACT NO.			68F50	
		ILLINOIS	FED. AID PROJECT	



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ILLINOIS
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24-088726



BILL OF MATERIALS		
ITEM DESCRIPTION	UNIT	TOTAL QTY.
UNDERGROUND CONDUIT, PVC, 3/4" DIA.	FOOT	95.0
CLOSED CIRCUIT TELEVISION DOME CAMERA, HD	EACH	1.0
CAT 5 ETHERNET CABLE	FOOT	147.0

THE CONTRACTOR SHALL FURNISH AND INSTALL STAINLESS OR GALVANIZED STEEL RIGID CONDUIT TO TRANSITION FROM UNDERGROUND INTO THE CONTROLLER CABINET. THE CONTRACTOR SHALL DRILL AN ENTRY INTO THE BOTTOM OF THE EXISTING LIGHTING CONTROLLER FOR THE NEW CONDUIT. THE COST OF THIS WORK SHALL BE INCLUDED IN THE COST OF THE PROPOSED CONDUIT.

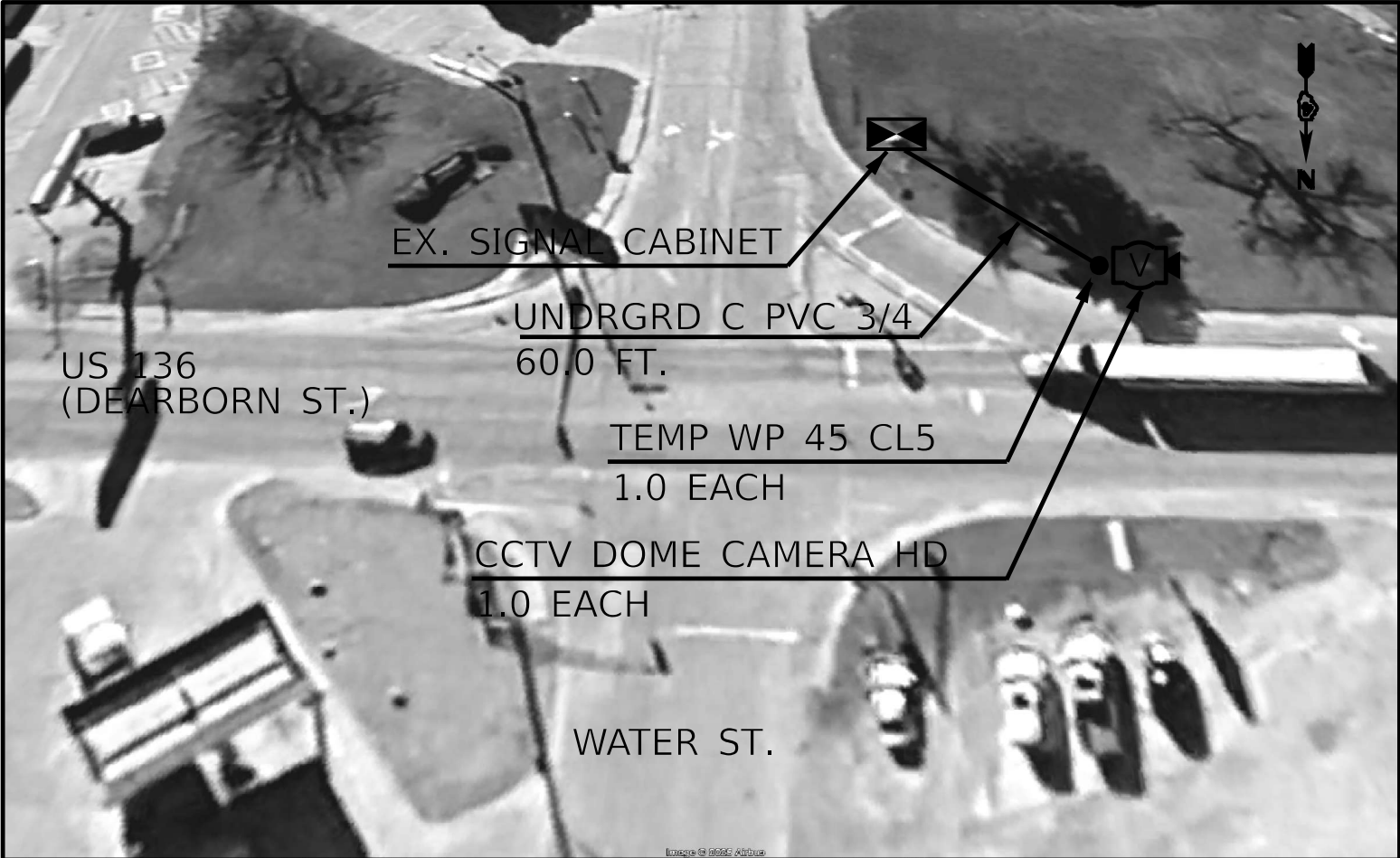
THE CONTRACTOR SHALL INSTALL THE PROPOSED 3/4" DIA. PVC CONDUIT INTO THE EXISTING METAL LIGHT POLE FOUNDATION. THE CONDUIT ENTRY POINT SHALL BE SEALED TO PREVENT RODENT INTRUSION. THE COST OF THIS WORK SHALL BE INCLUDED IN THE COST OF THE PROPOSED CONDUIT.

IDOT WILL FURNISH THE CELLULAR MODEM. THE CONTRACTOR SHALL INSTALL THE CELLULAR MODEM INSIDE THE EXISTING LIGHTING CONTROLLER CABINET AND CONNECT THE PROPOSED CAMERA TO IT. THE CONTRACTOR SHALL INSTALL AN EQUIPMENT RECEPTICLE IF REQUIRED FOR CAMERA POWER. THE COST OF THIS WORK SHALL BE INCLUDED IN THE COST OF THE PROPOSED CAMERA.

CAMERA SHALL BE INSTALLED AND OPERATIONAL PRIOR TO ACTIVATION OF TEMPORARY BRIDGE TRAFFIC SIGNALS

MODEL: \\MODEL\NAMES
FILE: \\NAME\STYLES

	USER NAME = \$USERS	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	CCTV CAMERA INSTALLATION IL 78/IL 97 HAVANA BRIDGE WEST END	SCALE:	SHEET	OF	SHEETS	STA.	TO STA.	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
		DRAWN -	REVISED -									315	(140-B-BR)BP,BRR	MASON	163	27
	PLOT SCALE = \$SCALE\$	CHECKED -	REVISED -									CONTRACT NO. 68F50				
	PLOT DATE = \$DATE\$	DATE -	REVISED -									ILLINOIS FED. AID PROJECT				



BILL OF MATERIALS		
ITEM DESCRIPTION	UNIT	TOTAL QTY.
UNDERGROUND CONDUIT, PVC, 3/4" DIA.	FOOT	60.0
CLOSED CIRCUIT TELEVISION DOME CAMERA, HD	EACH	1.0
CAT 5 ETHERNET CABLE	FOOT	106.0
TEMPORARY WOOD POLE, 45 FEET, CLASS 5	EACH	1.0

THE CONTRACTOR SHALL FURNISH AND INSTALL A 3/4" GALVANIZED STEEL LB FITTING ON THE EXISTING TRAFFIC SIGNAL CONTROLLER FOR THE PROPOSED CONDUIT AND CAT5 CAMERA CABLE. THE CONTRACTOR SHALL INSTALL RIGID CONDUIT TO TRANSITION FROM UNDERGROUND TO THE LB FITTING. THE COST OF THIS WORK SHALL BE INCLUDED IN THE COST OF THE PROPOSED CONDUIT.

THE CONTRACTOR SHALL INSTALL THE PROPOSED 3/4" DIA. PVC CONDUIT ON THE PROPOSED WOOD POLE USING GALVANIZED STEEL BRACKETS AND HARDWARE. THE CONTRACTOR SHALL INSTALL RIGID CONDUIT TO TRANSITION FROM UNDERGROUND TO THE WOOD POLE TO PROTECT THE FACILITIES FROM DAMAGE. THE COST OF THIS WORK SHALL BE INCLUDED IN THE COST OF THE PROPOSED CONDUIT.

IDOT WILL FURNISH THE CELLULAR MODEM. THE CONTRACTOR SHALL INSTALL THE CELLULAR MODEM INSIDE THE EXISTING TRAFFIC SIGNAL CABINET AND CONNECT THE PROPOSED CAMERA TO IT. THE COST OF THIS WORK SHALL BE INCLUDED IN THE COST OF THE PROPOSED CAMERA.

CAMERA SHALL BE INSTALLED AND OPERATIONAL PRIOR TO ACTIVATION OF TEMPORARY BRIDGE TRAFFIC SIGNALS

MODEL: 31501
FILE: 31501_31501

USER NAME = \$USERS	DESIGNED -	REVISED -
	DRAWN -	REVISED -
PLOT SCALE = \$SCALE\$	CHECKED -	REVISED -
PLOT DATE = \$DATE\$	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

CCTV CAMERA INSTALLATION US 136 (DEARBORN ST.) & WATER ST.			
SCALE:	SHEET	OF SHEETS	STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
315	(140-B-BR)BP,BRR	MASON	163	28
CONTRACT NO. 68F50				
ILLINOIS FED. AID PROJECT				

TEMPORARY BRIDGE TRAFFIC SIGNAL CONSTRUCTION NOTES	
1.	THE CONTRACTOR SHALL VERIFY FIELD CONDITIONS PRIOR TO BIDDING. THERE WILL BE NO ADDITIONAL COMPENSATION PAID FOR CLAIMS THAT ARISE FROM A FAILURE TO FULLY INVESTIGATE EXISTING FIELD CONDITIONS.
2.	THE TEMPORARY TRAFFIC SIGNAL INSTALLATION SHALL CONFORM TO ALL APPLICABLE MUTCD STANDARDS.
3.	TEMPORARY TRAFFIC SIGNALS HEADS SHALL BE INSTALLED AT THE LOCATIONS SHOWN ON THE MAINTENANCE OF TRAFFIC PLAN SHEETS FOR EACH CONSTRUCTION STAGE. THE CONTRACTOR SHALL RELOCATE TRAFFIC SIGNAL HEADS AS REQUIRED TO ACCOMMODATE EACH CONSTRUCTION STAGE.
4.	THE CONTRACTOR SHALL SUBMIT A COMPLETE TEMPORARY TRAFFIC SIGNAL DEPLOYMENT AND OPERATIONS PLAN TO THE DEPARTMENT FOR REVIEW AND APPROVAL PRIOR TO COMMENCING INSTALLATION. THE PLAN SHALL INCLUDE DETAILED INFORMATION ON PROPOSED EQUIPMENT TO BE USED, INTERCONNECT CABLING, TRAFFIC SIGNAL HEAD PLACEMENT AND INSTALLATION, WIRING, BATTERIES, SOLAR PANELS, ATTACHMENT DETAILS, AND TIMING PARAMETERS. THE CONTRACTOR SHALL FURNISH DOCUMENTATION SHOWING THAT THE TEMPORARY TRAFFIC SIGNAL BATTERY AND SOLAR SYSTEM WILL PROVIDE 21 DAYS OF AUTONOMY.
5.	TEMPORARY TRAFFIC SIGNALS SHALL BE INTERCONNECTED USING HARDWIRED COMMUNICATION CABLE TO PREVENT LOSS OF COMMUNICATION. THE CONTRACTOR SHALL FURNISH AND INSTALL COMMUNICATION CABLE AS REQUIRED TO INTERCONNECT BOTH TRAFFIC SIGNALS. THE CONTRACTOR SHALL INSTALL THE CABLE IN A LOCATION WHERE IT WILL NOT INTERFERE WITH CONSTRUCTION AND IS PROTECTED FROM POTENTIAL DAMAGE. THE CONTRACTOR SHALL FURNISH AND INSTALL PROTECTION FOR THE CABLE AS REQUIRED TO PREVENT DAMAGE DURING ALL PHASES OF CONSTRUCTION. THE CONTRACTOR SHALL COORDINATE INSTALLATION WITH THE RESIDENT ENGINEER TO DETERMINE THE CABLE PLACEMENT. ALL WORK SHALL BE PERFORMED TO THE SATISFACTION OF THE ENGINEER.
6.	INTERCONNECT CABLE SHALL BE INSTALLED CONTINUOUS FROM SIGNAL CONTROLLER TO SIGNAL CONTROLLER WITH NO SPLICES.
7.	THE CONTRACTOR SHALL FURNISH SLACK CABLE AS REQUIRED TO ACCOMMODATE ALL STAGES OF CONSTRUCTION.THE CONTRACTOR SHALL RELOCATE CABLE AS REQUIRED TO ACCOMMODATE EACH CONSTRUCTION STAGE.
8.	TEMPORARY TRAFFIC SIGNALS SHALL BE SOLAR POWERED AND EQUIPPED WITH ADDITIONAL BATTERY CAPACITY TO PROVIDE A MINIMUM OF 21 DAYS OF AUTONOMY AND UNINTERRUPTED OPERATION. THE CONTRACTOR SHALL MONITOR THE BATTERY LEVELS AND IN THE EVENT OF LOW BATTERY LEVELS SHALL PROMPTLY REPLACE DEPLETED BATTERIES WITH CHARGED BATTERIES OR CHARGE BATTERIES USING A PORTABLE GENERATOR. BATTERY LEVELS SHALL BE CONTINUOUSLY MONITORED REMOTELY AND AT NO TIME SHALL BE LESS THAN 40% CHARGED.
9.	NO DRILLING OF BEAMS WILL BE ALLOWED FOR INSTALLATION OF TRAFFIC SIGNAL HEADS AND OTHER COMPONENTS. ALL PROPOSED ATTACHMENT METHODS SHALL BE APPROVED BY THE
10.	TEMPORARY TRAFFIC SIGNALS SHALL BE EQUIPPED WITH VEHICLE DETECTION FOR FULLY ACTUATED OPERATION.
11.	THE CONTRACTOR SHALL NOTIFY TONY BRIDSON, IDOT DISTRICT 4 TRAFFIC SIGNAL TECHNICIAN AT (309) 370-7522 A MINIMUM OF 72 HOURS PRIOR TO TEMPORARY TRAFFIC SIGNAL ACTIVATION TO INSPECT THE TEMPORARY TRAFFIC SIGNALS PRIOR TO ACTIVATION.
12.	THE CONTRACTOR SHALL FURNISH AND INSTALL ALL EQUIPMENT REQUIRED FOR THE TEMPORARY TRAFFIC SIGNAL INSTALLATION, INCLUDING BUT NOT LIMITED TO TRAFFIC SIGNAL CONTROLLERS, SIGNAL HEADS, WIRING, BATTERIES, SOLAR CHARGING SYSTEM, REMOTE COMMUNICATIONS FOR MONITORING, HARDWARE, BRACKETS, CONDUIT, AND ALL OTHER EQUIPMENT REQUIRED FOR A FULLY OPERATION TEMPORARY TRAFFIC SIGNAL SYSTEM. THE CONTRACTOR SHALL RELOCATE, MAINTAIN, AND REPAIR ALL FURNISHED EQUIPMENT AS REQUIRED TO PROVIDE A FULLY FUNCTIONAL TEMPORARY TRAFFIC SIGNAL INSTALLATION DURING ALL PHASES OF CONSTRUCTION.
13.	ALL WORK LISTED ABOVE SHALL BE INCLUDED IN THE CONTRACT BID PRICE FOR TEMPORARY BRIDGE TRAFFIC SIGNALS (SPECIAL) AND INCLUDE ALL LABOR, EQUIPMENT, AND MATERIALS REQUIRED TO FURNISH, INSTALL, MAINTAIN, AND REMOVE THE TEMPORARY BRIDGE TRAFFIC SIGNAL INSTALLATION DESCRIBED ABOVE.

BILL OF MATERIALS		
ITEM DESCRIPTION	UNIT	TOTAL QTY.
TEMPORARY BRIDGE TRAFFIC SIGNALS (SPECIAL)	EACH	1.0

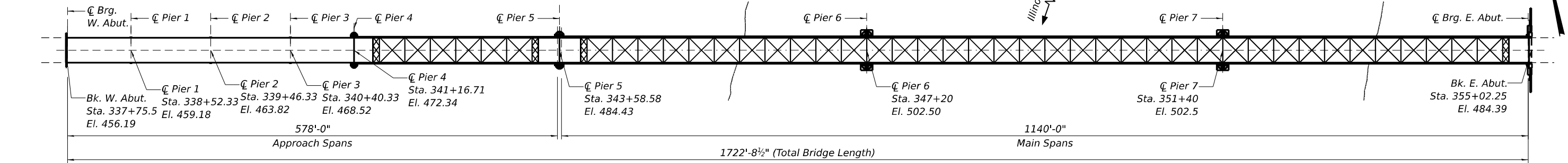
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		DRAWN -	REVISED -				315	(140-B-BR)BP,BRR	MASON	163	29
	PLOT SCALE = \$SCALES	CHECKED -	REVISED -				CONTRACT NO. 68F50				
	PLOT DATE = \$DATES	DATE -	REVISED -				ILLINOIS FED. AID PROJECT				
SCALE:		SHEET	OF	SHEETS	STA.	TO STA.					

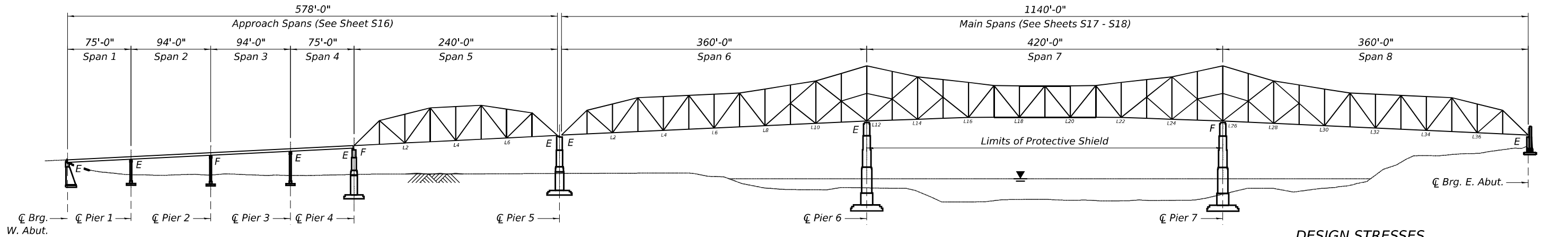
Existing Structure: S.N. 063-0002 Completed 1935; Eight spans - 3 continuous through-truss spans, 1 simple through-truss span, and 4 continuous multi-beam approach spans. The bridge was rehabilitated in 1962, 1970 and 1997. Bridge width is 28'-9" face to face of barriers; Total length = 1722'-8½"

Traffic Control: Staged construction. No detour.

No Salvage.



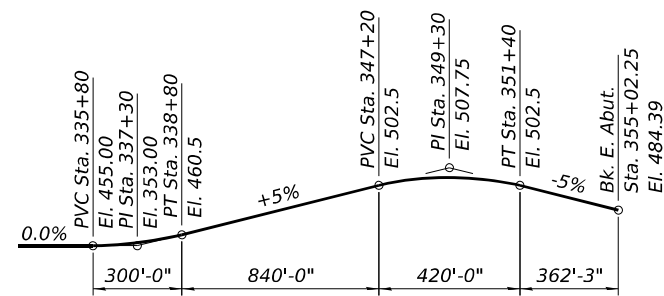
PLAN



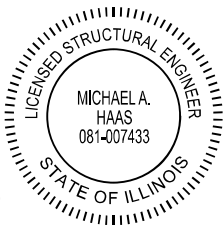
ELEVATION
(Looking North)

SCOPE OF WORK

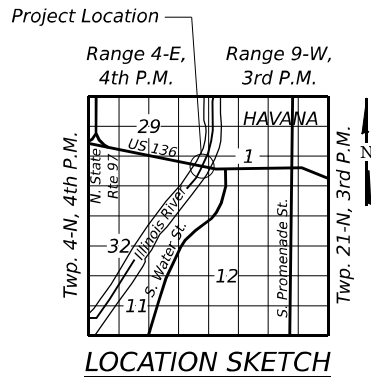
- Deck concrete repairs at select locations along the structure.
- Replacement of expansion joints at select locations along the structure.
- Replacement of concrete deck adjacent to expansion joints.
- Structural steel repairs to truss members, gusset plates, and connection plates. Summary of anticipated repair types:
 - Type 1 - Gusset Plate Repair
 - Type 2 - Truss Member Repair
 - Type 3 - Batten/Stay Plate Repair
 - Type 4 - Replace Missing Bolts
 - Type 5 - Lateral Bracing Connection Plate Repair
- Maintenance repairs to structure including replacing missing signage, etc.
- Full bridge painting including superstructure members and bearings.
- Replacement of navigation lighting platforms.



EXISTING PROFILE GRADE



Michael A. Haas
License Expires 11/30/2026
Sheet Range S1 Thru S41
Date



LOCATION SKETCH

DESIGN STRESSES

1935 (ORIGINAL)

Axial tension Ft = 18,000 psi
Axial compression Fc = 16,000 psi

1987 (REHABILITATION)

f_c = 3,500 psi
f_y = 60,000 psi (reinforcement)
f_y = 36,000 psi (M183)
f_y = 50,000 psi (M223, Grade 50)

1997 (REHABILITATION)

f_c = 4,000 psi
f_y = 60,000 psi (reinforcement)
f_y = 50,000 psi (M270 Grade 50)

(NEW CONSTRUCTION)

f_c = 4,000 psi
f_y = 60,000 psi (reinforcement)
f_y = 50,000 psi (M270 Grade 50)

LOADING HS20-44 (NEW CONSTRUCTION)

DESIGN SPECIFICATIONS

2002 AASHTO Standard Specifications for Highway Bridges, 17th Edition.

GENERAL PLAN AND ELEVATION

HAVANA BRIDGE OVER ILLINOIS RIVER (PUBLIC WATERS)

F.A.P. RTE. 315 (US 136/IL 78/ IL 97), SECTION (140-B-BR)BP, BRR

FULTON / MASON COUNTIES

STATION 349+30.00

STRUCTURE NO. 063-0002

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COLLINS
ENGINEERS

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PLOT DATE =	DRAWN - JA	REVISED -
	CHECKED - MAH/LDB	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

GENERAL PLAN AND ELEVATION
S.N. 063-0002 HAVANA BRIDGE OVER ILLINOIS RIVER

SHEET S1 OF S41 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
315	(140-B-BR)BP, BRR	FULTON/MASON	163	30
CONTRACT NO. 68F50				
ILLINOIS FED. AID PROJECT				

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GENERAL NOTES

Fasteners shall be ASTM F 3125 Grade A325 Type 1, mechanically galvanized bolts in painted areas. Bolts 7/8 in. diameter, holes 15/16 in. diameter, unless otherwise noted.

The Contractor shall replace all loose, broken, or missing rivets or bolts 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 plans.

Calculated weight of Structural Steel = 9,190 lbs.
Estimated Structural Steel Removal = 3,190 lbs.

All structural steel shall be AASHTO M270 Grade 50.

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

Reinforcement bars designated (E) shall be epoxy coated.

Load carrying components designated "CVN" shall conform to the Charpy-V-Notch Impact Energy Requirement, Zone 2.

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. This shall include the placement of material for run-arounds, causeways, etc. 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.

Plan dimensions and details relative to the existing structure have been taken from 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.

Existing structure plans are available for review in the District office.
Contact Anna Devine at (309) 671-3475.

Elements of this structure require removal and re-installation due to the proposed repairs. Such removal and re-installation shall not be paid separately and shall be included in the cost of Structural Steel Repair.

All removal work shall be performed with care so that materials which are to remain in place or to be reused will not be damaged. It will be the Contractor's responsibility to repair and replace any members damaged as a result of the removal operations at the Contractor's expense.

Flame cutting of existing structural steel members which are to remain in place is not allowed.

Gaps between the existing and new steel angles and/or 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.

Depending on the condition of existing structural steel, steel reinforced epoxy putty shall be used to address variations in existing material thickness to promote a flush plating repair free of voids which could allow water infiltration. The filler material shall be submitted to the Engineer for approval prior to use. All costs associated with the installation of the filler material shall be included with the cost for Structural Steel Repair.

Members or pieces not specifically marked for removal or replacement are to remain in place.

The Contractor shall take all necessary measures to ensure that no debris falls in the Illinois River or endangers or interferes with river traffic beneath the bridge. The cost of this work shall be incidental to the contract. If any debris falls into the waterway, the Contractor shall remove it from the river to the Engineer's satisfaction and at no additional cost.

River traffic is to be maintained at all times.

See Sheet SP-2 for bridge painting general notes.

See Sheets SP3 - SP75 for bridge record plans (for information only). Beam, stringer, floorbeam and truss node labels may vary. See Sheet S16 - S18 for labelling used in this contract.

CONSTRUCTION REQUIREMENTS

The Contractor shall employ a State of Illinois Structural Engineer to ensure stability at all times and shall conform to special provision for "Structural Assessment Reports and Contractor's Means and Methods."

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.

Current Rating on File for Existing Structure
Inventory: HS 16.8
Operating: HS 28
Live Load Restrictions: None

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 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 and 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.

ABBREVIATIONS

Abut.	Abutment	E.F.	Each Face	S.	South
@	At	Elev.	Elevation	SE	Southeast
B.F.	Back Face	Exist.	Existing	Shldr.	Shoulder
Bk.	Back	Exp.	Expansion	Spa.	Spaces
Brg.	Bearing	F.F.	Front Face	Std.	Standard
Btw.	Between	Max.	Maximum	Sta.	Standard
CL	Centerline	Min.	Minimum	Sta.	Station
Clr.	Clear	N.	North	SW	Southwest
Cts.	Centers	NE	Northeast	Typ.	Typical
Const.	Construction	No.	Number	U.N.O.	Unless Noted Otherwise
Ø	Diameter	NW	Northwest	Vert.	Vertical
E.	East	Pt.	Point	W.	West

TOTAL BILL OF MATERIAL

ITEM	UNIT	SUPER	SUB	TOTAL
Concrete Removal	Cu Yd	8.3		8.3
Protective Shield	Sq Yd	1,528		1,528
Concrete Superstructure	Cu Yd	8.3		8.3
Protective Coat	Sq Yd	5,631		5,631
Reinforcement Bars, Epoxy Coated	Pound	1,121		1,121
Bar Splicers	Each	22		22
Preformed Joint Seal 1"	Foot	471		471
Preformed Joint Strip Seal	Foot	60		60
Structural Steel Removal	Pound	3,190		3,190
Structural Steel Repair	Pound	9,190		9,190
Cleaning Drainage System	L Sum	1		1
Deck Slab Repair (Partial)	Sq Yd	43		43

INDEX OF SHEETS

S1	General Plan and Elevation
S2	Index of Sheets, Bill of Material & General Notes
S3	Bridge Joint Concrete Removals
S4	Expansion Joint Repair Details 1
S5	Expansion Joint Repair Details 2
S6	Expansion Joint Repair Details 3 (W. Abutment and Pier 4)
S7	Relief Joint Repair Details (Truss Spans 5 Thru 8)
S8	Concrete Deck Repair Plan 1
S9	Concrete Deck Repair Plan 2
S10	Concrete Deck Repair Plan 3
S11	Concrete Deck Repair Plan 4
S12	Concrete Deck Repair Plan 5
S13	Bar Splicer Assembly and Mechanical Splicer Details
S14	Temporary Concrete Barrier
S15	Steel Repair General Notes
S16	Repair Plan and Elevation 1
S17	Repair Plan and Elevation 2
S18	Repair Plan and Elevation 3
S19	Gusset Plate Repairs 1
S20	Gusset Plate Repairs 2
S21	Gusset Plate Repairs 3
S22	Gusset Plate Repairs 4
S23	Gusset Plate Repairs 5
S24	Gusset Plate Repairs 6
S25	Gusset Plate Repairs 7
S26	Gusset Plate Repairs 8
S27	Gusset Plate Repairs 9
S28	Truss Member Repairs 1
S29	Truss Member Repairs 2
S30	Truss Member Repairs 3
S31	Truss Member Repairs 4
S32	Truss Member Repairs 5
S33	Truss Member Repairs 6
S34	Truss Member Repairs 7
S35	Truss Member Repairs 8
S36	Truss Member Repairs 9
S37	Truss Member Repairs 10
S38	Truss Member Repairs 11
S39	Miscellaneous Steel Repairs 1
S40	Miscellaneous Steel Repairs 2
S41	Navigation Lighting Access Platform Details



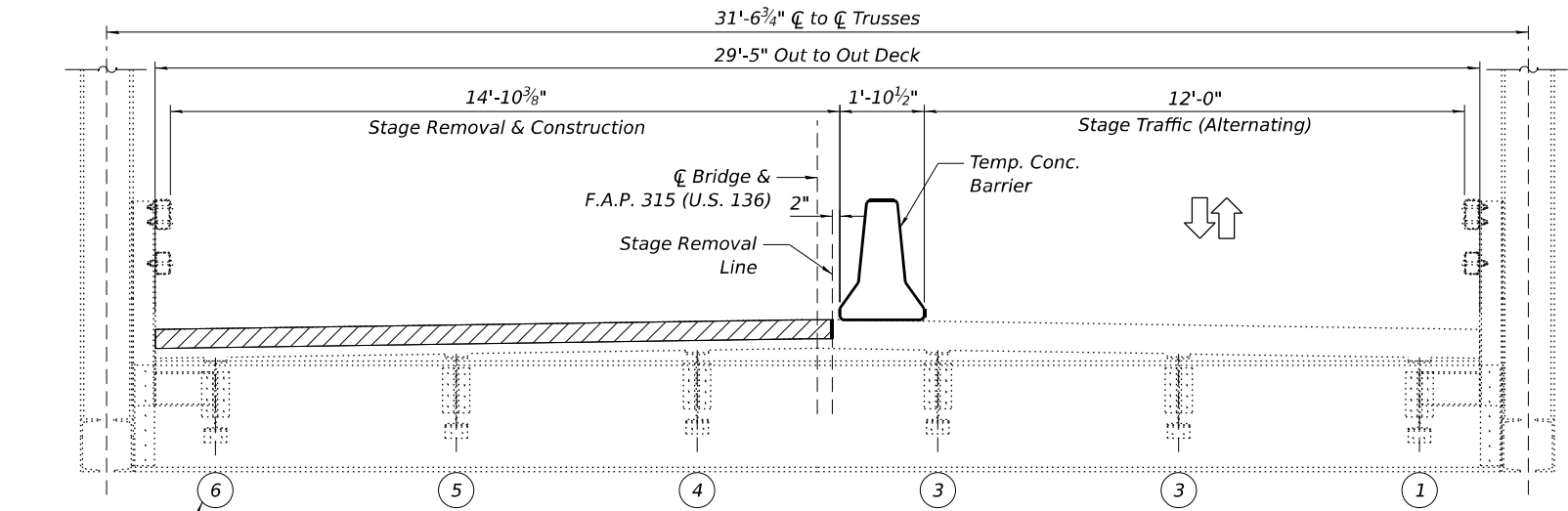
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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

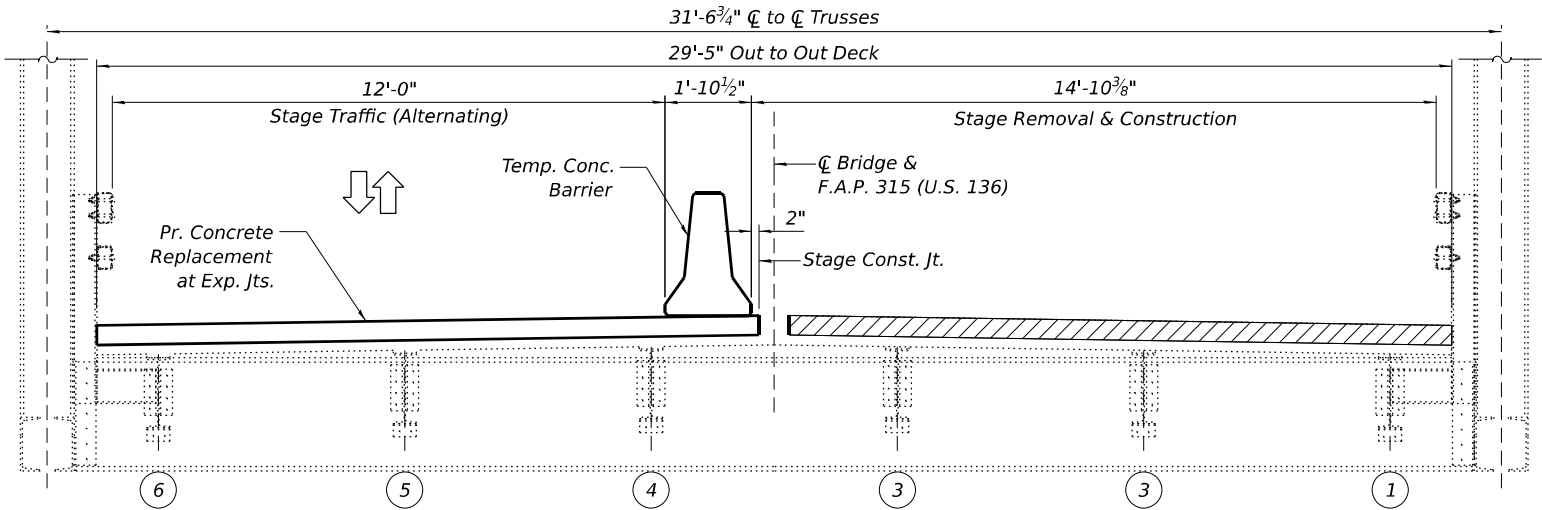
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S.N. 063-0002 HAVANA BRIDGE OVER ILLINOIS RIVER

SHEET S2 OF S41 SHEETS

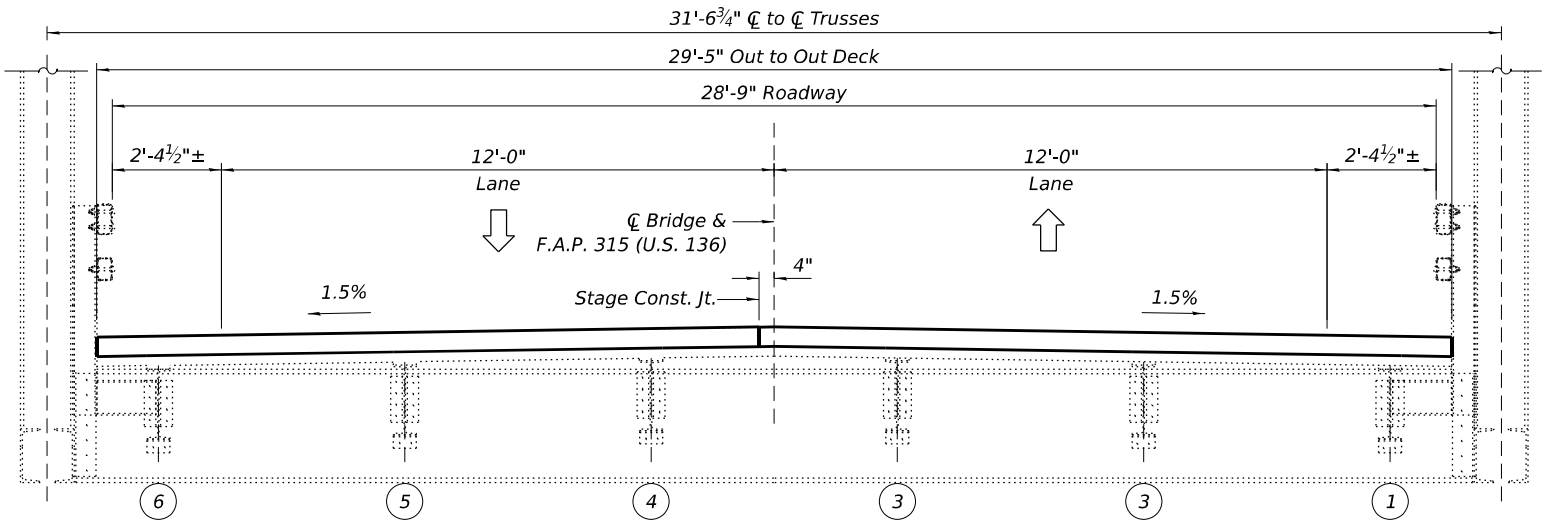
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		CONTRACT NO. 68F50		
	ILLINOIS	FED. AID PROJECT		



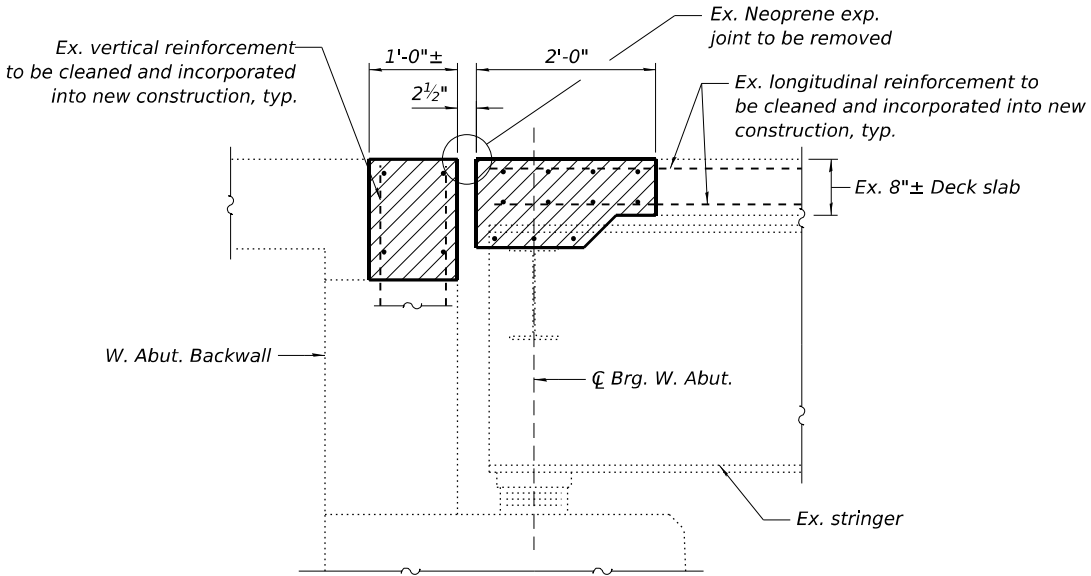
STAGE 1 / 3 CROSS SECTION
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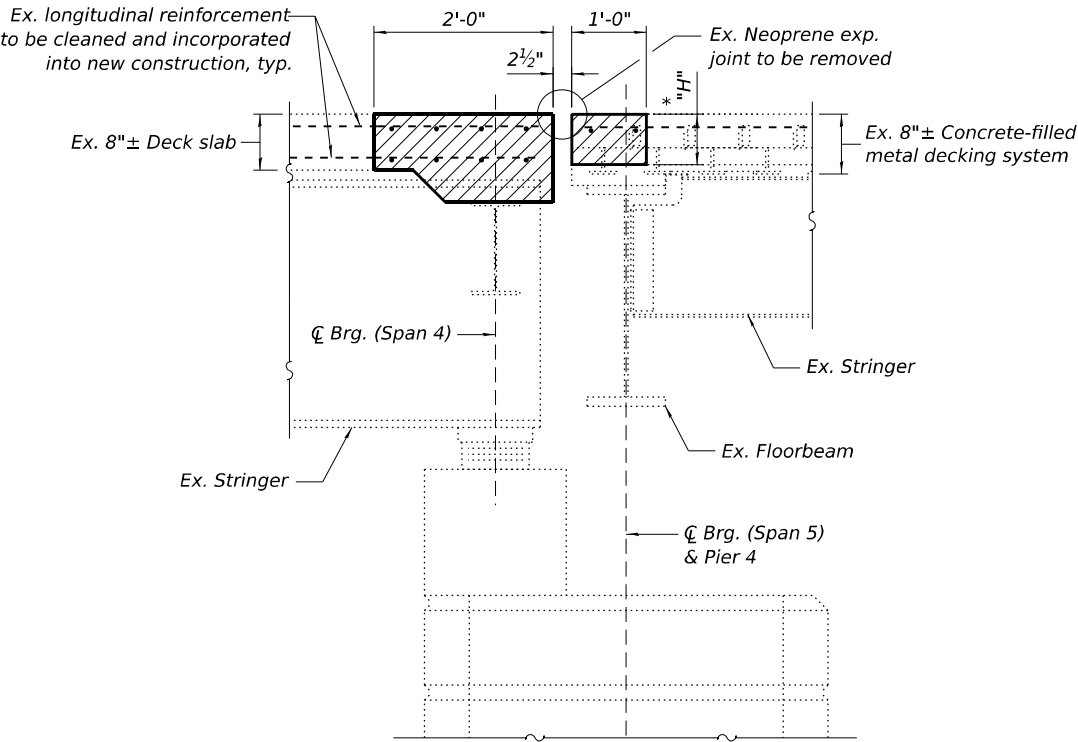
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(Looking East)



FINAL CROSS SECTION
(Looking East)



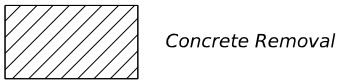
SECTION THRU WEST ABUTMENT JOINT
(Looking North)



SECTION THRU PIER 4 JOINT
(Looking North)

* Depth of removal "H" required for neoprene expansion joint and armor plate removal to be determined in the field. See "Section B-B" on Sheet SP22.

LEGEND



NOTES:

- Removal and disposal of existing expansion joints shall be included in the price for "Concrete Removal".
- Existing reinforcement shall be cleaned and incorporated into new construction. Cost included in "Concrete Removal".

REPAIR LOCATIONS

NBIS Deficiency No.	Span	Joint
277	1	W. Abut
278	4/5	Pier 4

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**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**BRIDGE JOINT CONCRETE REMOVALS
S.N. 063-0002 HAVANA BRIDGE OVER ILLINOIS RIVER**

SHEET S3 OF S41 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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CONTRACT NO. 68F50				
ILLINOIS FED. AID PROJECT				

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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

EXPANSION JOINT REPAIR DETAILS 1
S.N. 063-0002 HAVANA BRIDGE OVER ILLINOIS RIVER

SHEET S4 OF S41 SHEETS

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

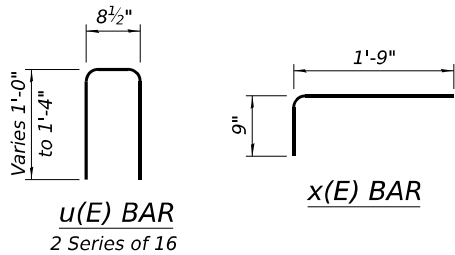
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Bar	No.	Size	Length	Shape
a(E)	8	#5	14'-2"	—
a1(E)	8	#5	14'-10"	—
a2(E)	8	#6	7'-4"	—
h(E)	4	#6	14'-2"	—
h1(E)	4	#6	14'-10"	—
* u(E)	32	#5	1'-11"	⌒
x(E)	32	#5	2'-6"	⌒
			Unit	Total
Concrete Superstructure			Cu. Yd.	5.3
Reinforcement Bars, Epoxy Coated			Pound	650
Preformed Joint Strip Seal			Foot	30

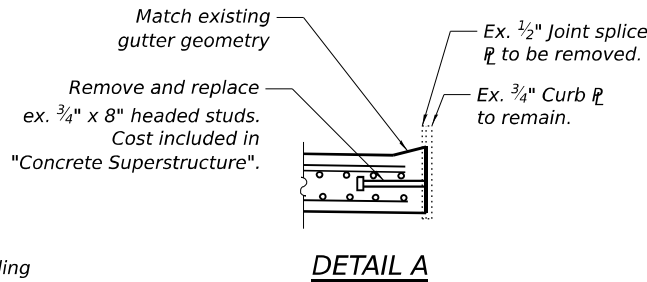
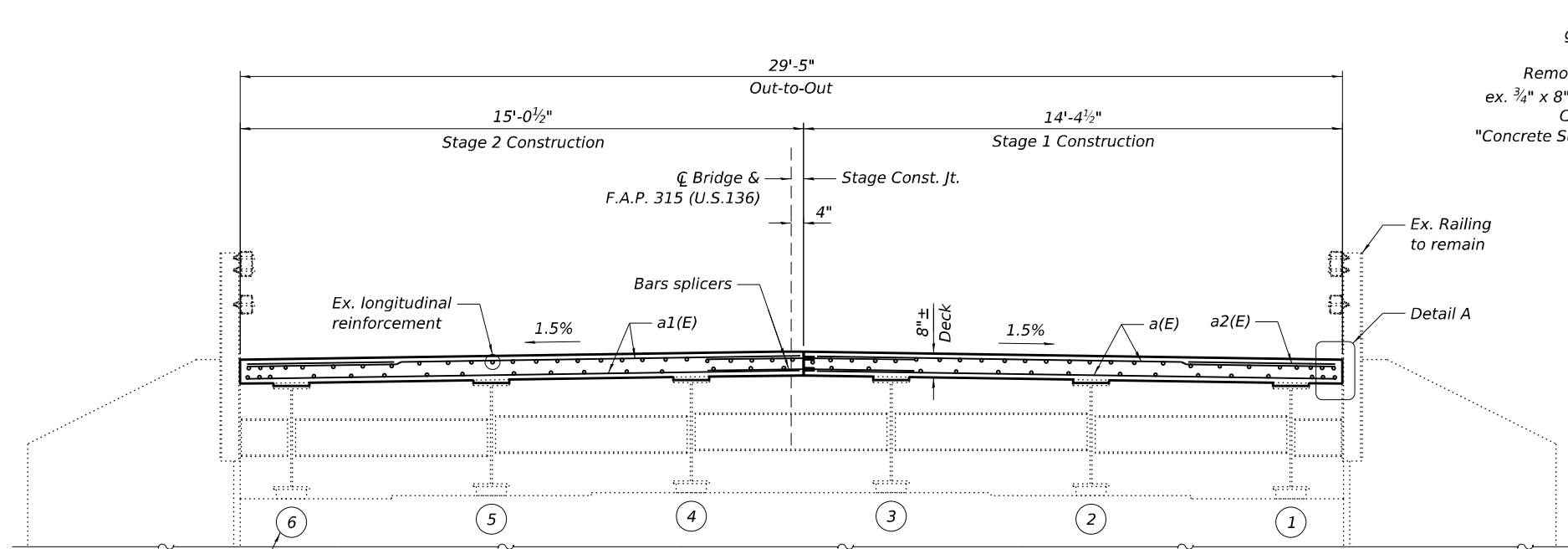
* Bar series with variable legnth. Length tabulated is an average.

MINIMUM BAR LAP

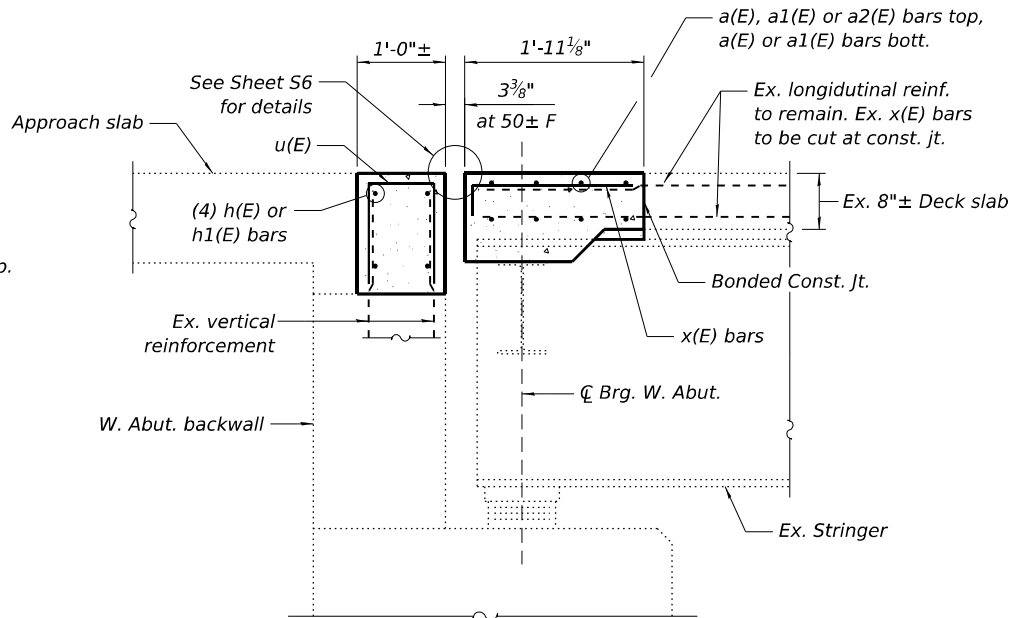
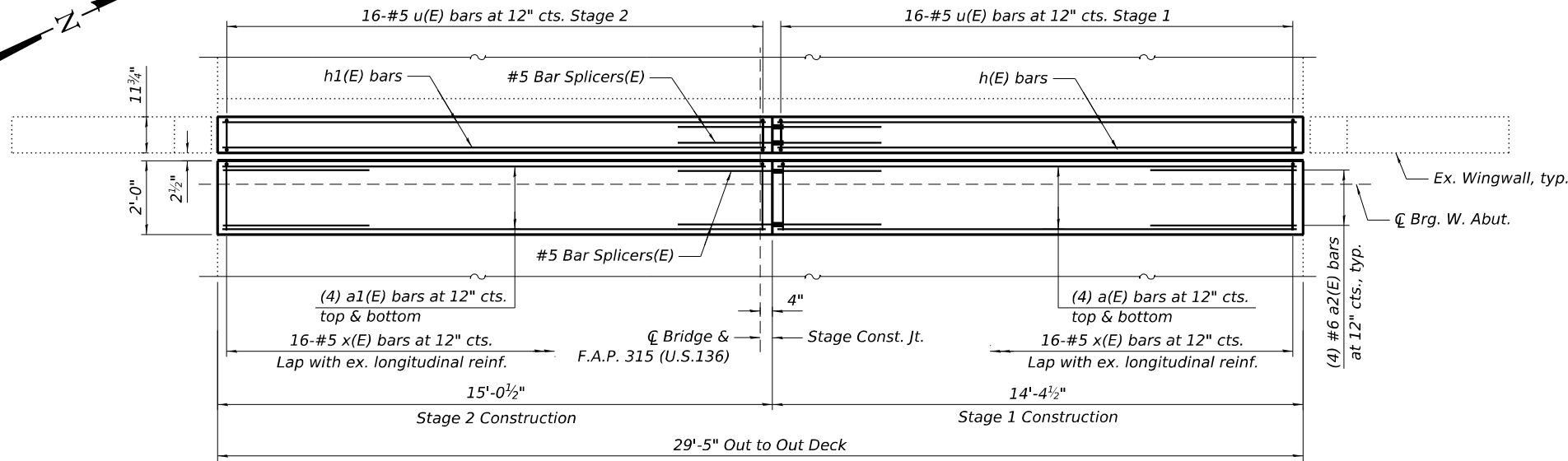
#5 = 3'-6"



ELEVATION
(Looking West)



PLAN



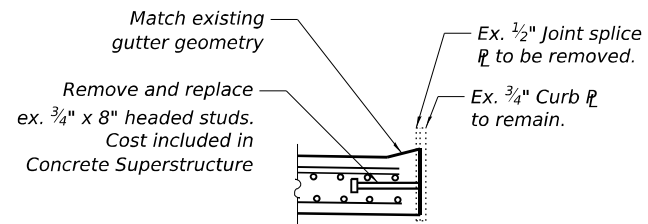
SECTION THRU WEST ABUTMENT JOINT
(Looking North)

REPAIR LOCATIONS

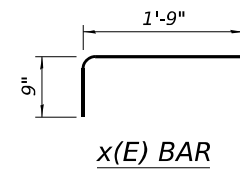
NBIS Deficiency No.	Span	Joint
277	1	W. Abut

Bar	No.	Size	Length	Shape
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a1(E)	10	#5	14'-10"	
a2(E)	8	#6	7'-4"	
x(E)	32	#5	2'-5"	
			Unit	Total
Concrete Superstructure			Cu. Yd.	3.0
Reinforcement Bars, Epoxy Coated			Pound	471
Prefomed Joint Strip Seal			Foot	30

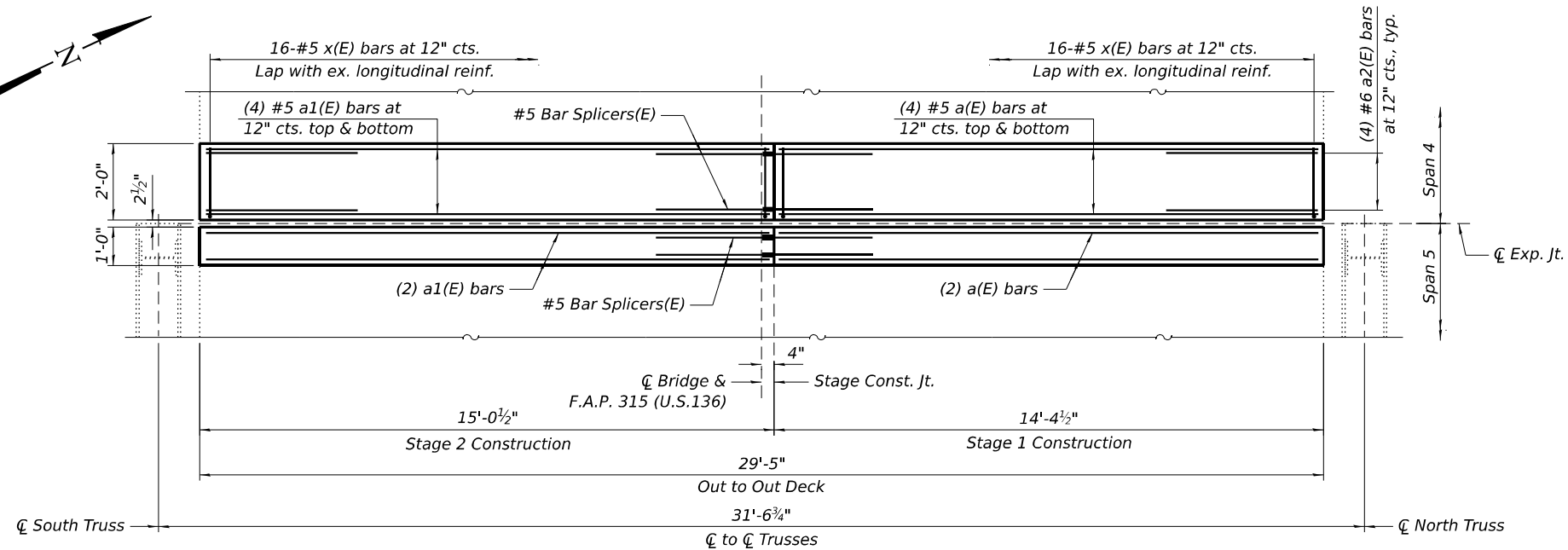
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DETAIL A

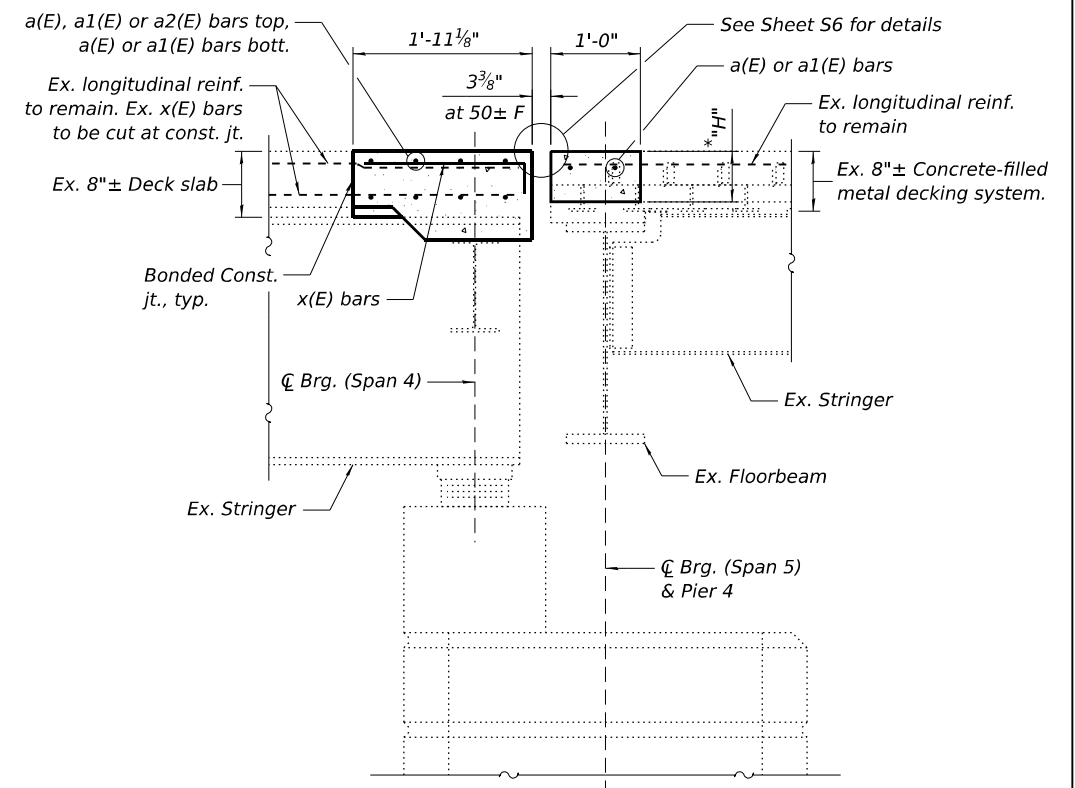


(Looking West thru Span 4)



REPAIR LOCATIONS

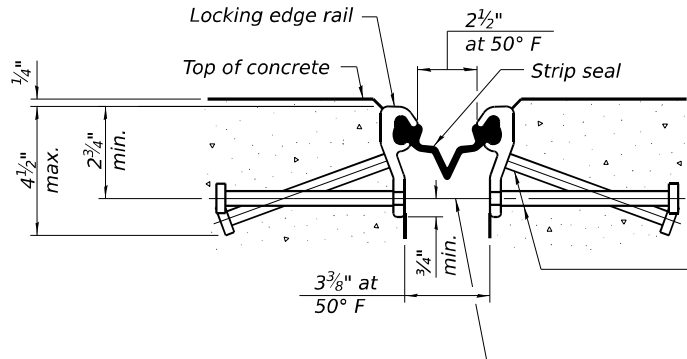
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278	4/5	Pier 4



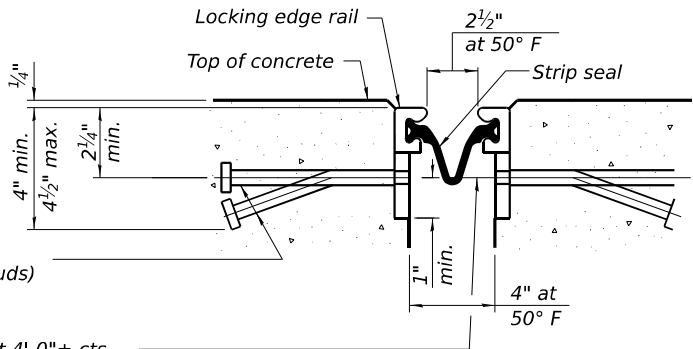
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* Depth of removal "H" required for neoprene expansion joint and armor plate removal to be determined in the field.

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SHOWING ROLLED RAIL JOINT



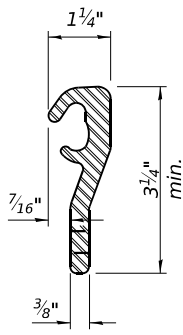
SHOWING WELDED RAIL JOINT

* $\frac{5}{8}$ " $\varnothing$ x 6" studs @ 6" cts. (alternate angled/bent studs with horizontal studs)

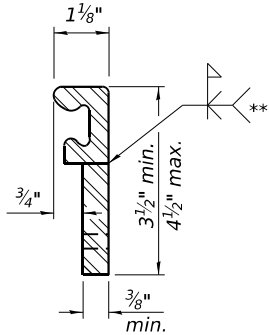
$\frac{3}{8}$ " $\varnothing$ threaded rods in $\frac{7}{16}$ " $\varnothing$ holes at 4'-0" $\pm$ cts. for holding the proper joint opening based on the temperature during the deck pour. Place to miss studs. All rods shall be burned, or sawed off flush with the plates after concrete is set.

SECTION A-A

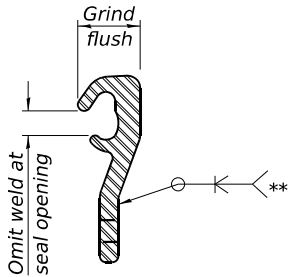
* Granular or solid flux filled headed studs conforming to Article 1006.32 of the Std. Specs., automatically end welded.



ROLLED (EXTRUDED) RAIL



WELDED RAIL



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

** Back gouge not required if complete joint penetration is verified by mock-up.

NOTES:

1. The strip seal shall be made continuous and shall have a miniumum thickness of $\frac{1}{4}$ ". 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.
2. The locking edge rails depicted are configured for typical applications and are conceptual only. The actual configuration of the locking edge rails and matching strip seal may vary from manufacturer to manufacturer provided they fit the application and meet the minimum anchorage shown. Flanged edge rails, however, will not be allowed. Locking edge rails may exceed the 4 1/2" maximum depth provided the anchorage system is revised according to the manufacturer's recommendations.
3. The manufacturer's recommended installation methods shall be followed.
4. All steel components shall be galvanized after fabrication according to Article 520.03 of the Standard Specifications.
5. The maximum space between locking edge rail segments shall be $\frac{3}{16}$ " and sealed with a suitable sealant; however, any rail joint within 10' measured perpendicular to the face of the curb or parapet shall be welded as shown in the locking edge rail splice detail.

COLLINS
ENGINEERS

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PLOT SCALE =	DRAWN - JA	REVISED -
PLOT DATE =	CHECKED - MAH/LDB	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

EXPANSION JOINT REPAIR DETAILS 3 (W. ABUTMENT AND PIER 4)
S.N. 063-0002 HAVANA BRIDGE OVER ILLINOIS RIVER

SHEET S6 OF S41 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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CONTRACT NO. 68F50				
ILLINOIS FED. AID PROJECT				

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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

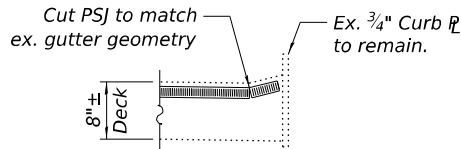
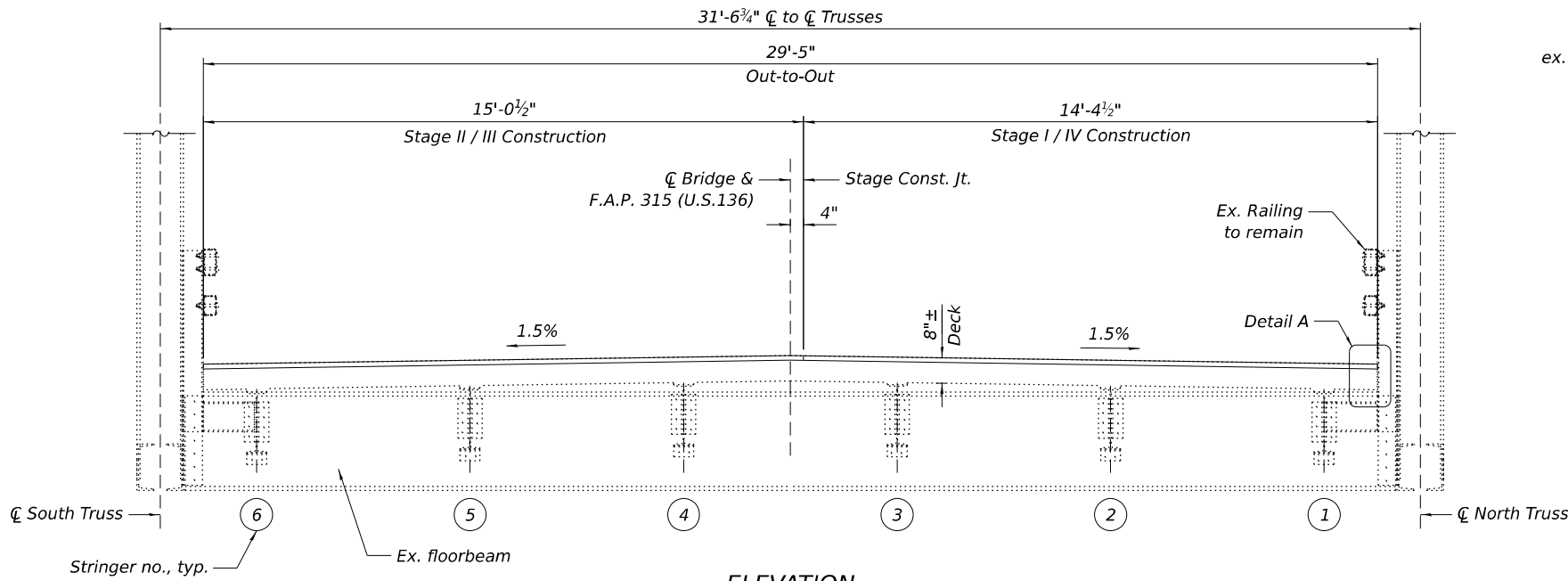
RELIEF JOINT REPAIR DETAILS (TRUSS SPANS 5 THRU 8)
S.N. 063-0002 HAVANA BRIDGE OVER ILLINOIS RIVER

SHEET S7 OF S41 SHEETS

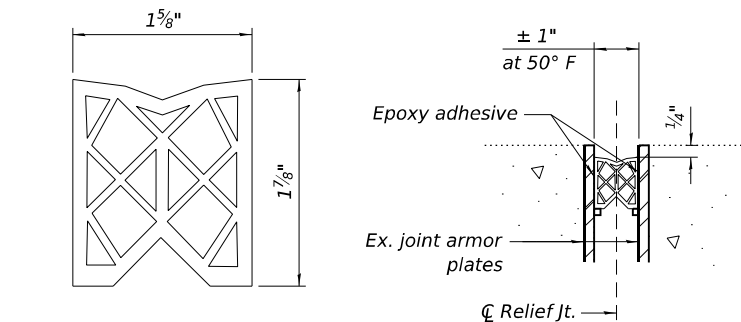
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315	(140-B-BR)BP, BRR	FULTON/MASON	163	36
CONTRACT NO. 68F50				
		ILLINOIS	FED. AID PROJECT	

BILL OF MATERIAL

ITEM	UNIT	TOTAL
Preformed Joint Seal 1"	Foot	471

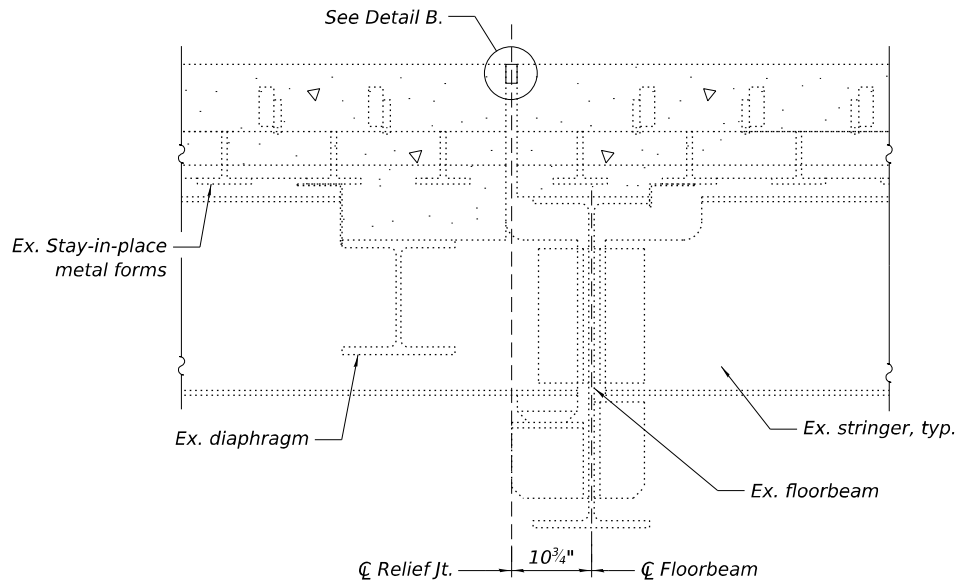
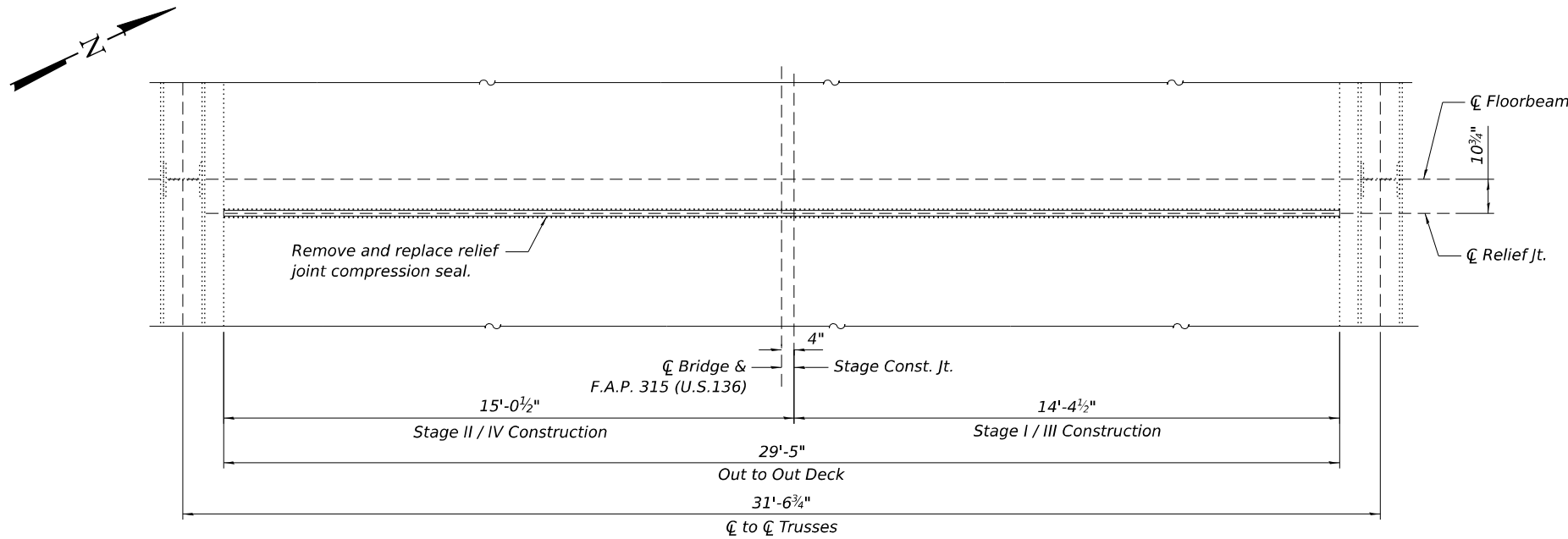


DETAIL A



PREFORMED JOINT SEAL

DETAIL B
(16 Locations)

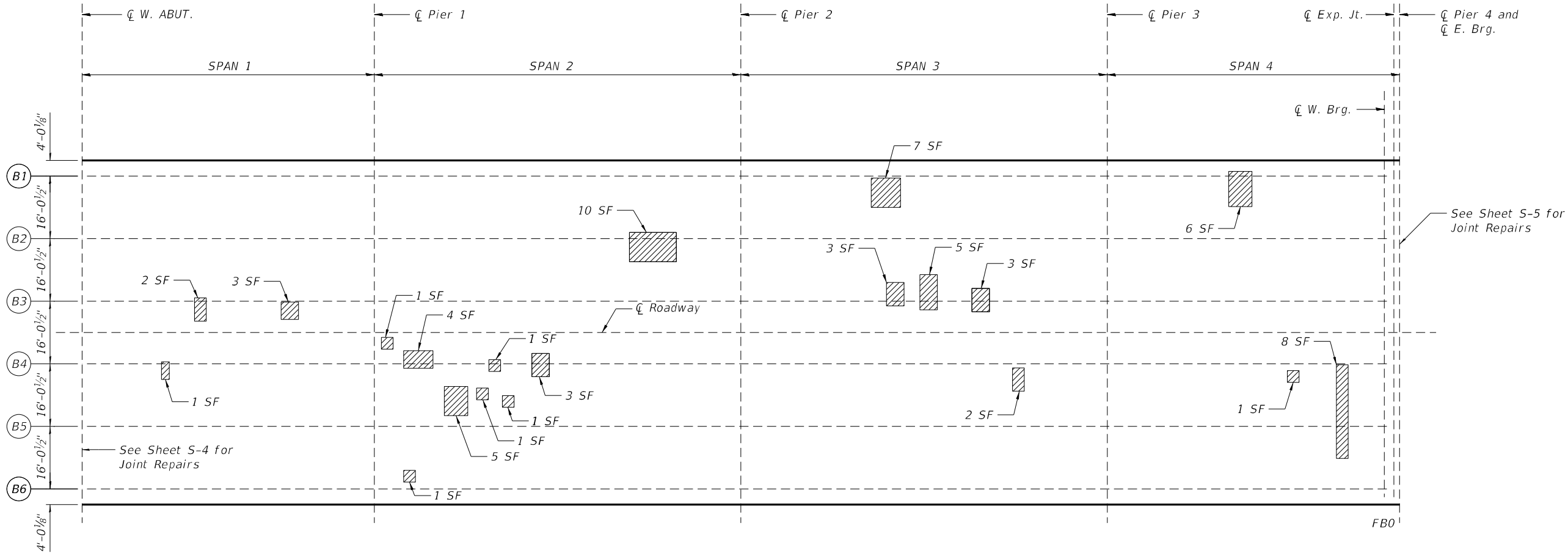
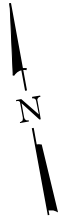


SECTION THRU RELIEF JOINT

NOTES:

- Cost for cutting PSJ included in the price for "Preformed Joint Seal 1".
- See "Detail B" in existing plans on Sheet SP29 (for information only).

MODEL: Deck Patching - sht 01
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TOP OF DECK PLAN

BILL OF MATERIAL SPANS 1-4

ITEM	UNIT	QUANTITY
Deck Slab Repair (Partial)	Sq Yd	8

LEGEND

 Deck Slab Repair (Partial)

MODEL: Deck Patching - sht 02
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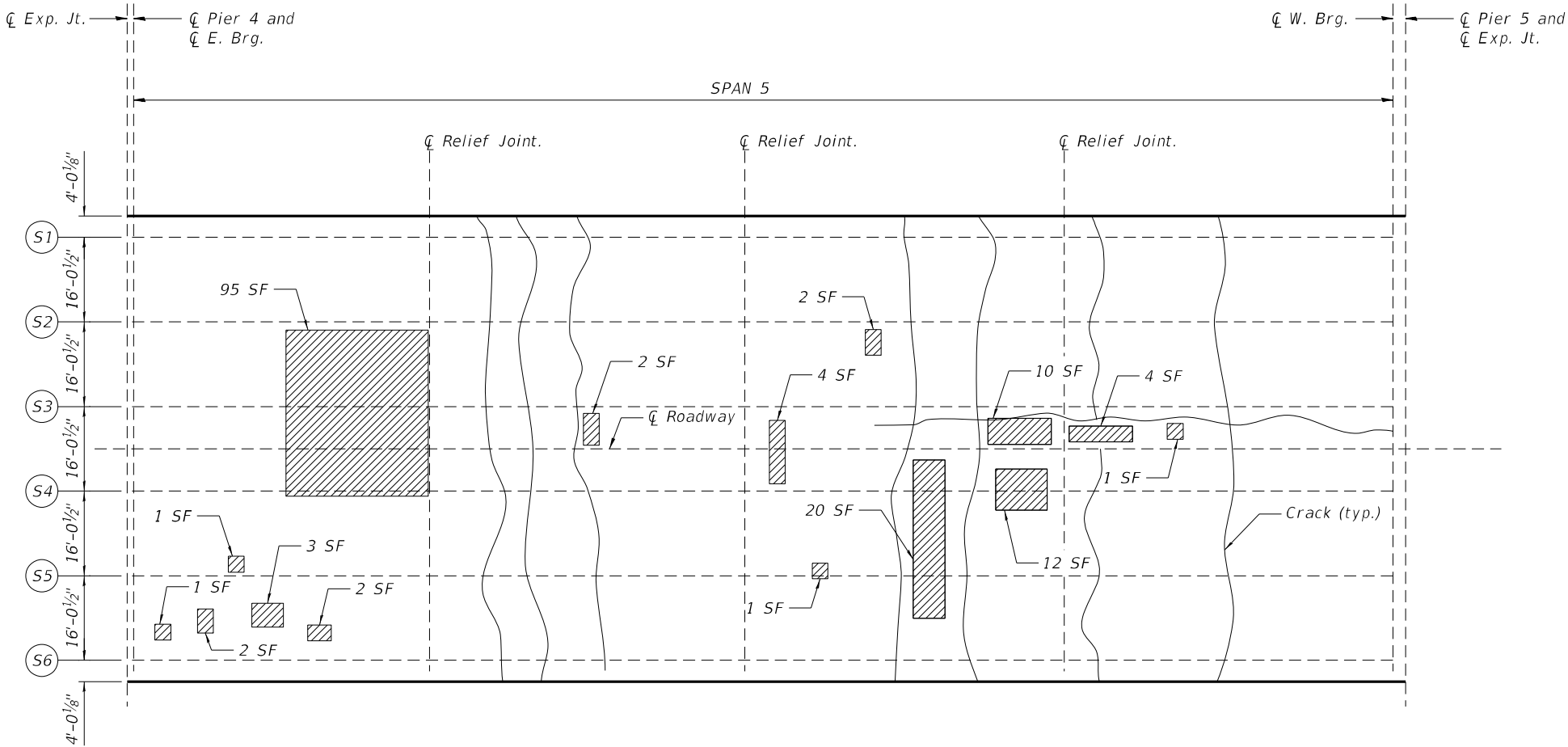
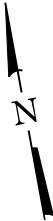
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PLOT SCALE =	DRAWN -	REVISED -
PLOT DATE =	CHECKED -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

CONCRETE DECK REPAIR PLAN 2
S.N. 063-0002 HAVANA BRIDGE OVER ILLINOIS RIVER

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
315	(140-B-BR)BP, BRR	FULTON/MASON	163	38
CONTRACT NO. 68F50				
		ILLINOIS	FED. AID PROJECT	

SHEET S9 OF S41 SHEETS



TOP OF DECK PLAN

BILL OF MATERIAL SPAN 5

ITEM	UNIT	QUANTITY
Deck Slab Repair (Partial)	Sq Yd	18

LEGEND

 Deck Slab Repair (Partial)

MODEL: Deck Patching - sht 03
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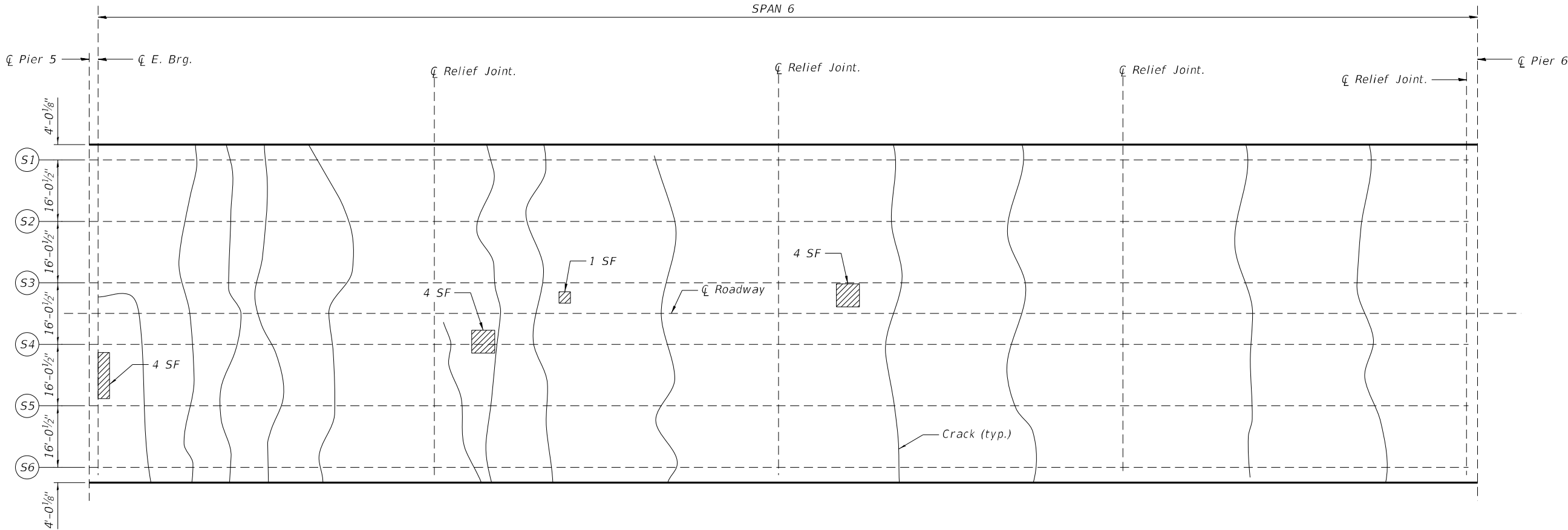
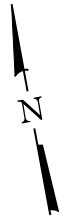
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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

CONCRETE DECK REPAIR PLAN 3
S.N. 063-0002 HAVANA BRIDGE OVER ILLINOIS RIVER

SHEET S10 OF S41 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
315	(140-B-BR)BP, BRR	FULTON/MASON	163	39
CONTRACT NO. 68F50				
		ILLINOIS	FED. AID PROJECT	



TOP OF DECK PLAN

BILL OF MATERIAL SPAN 6

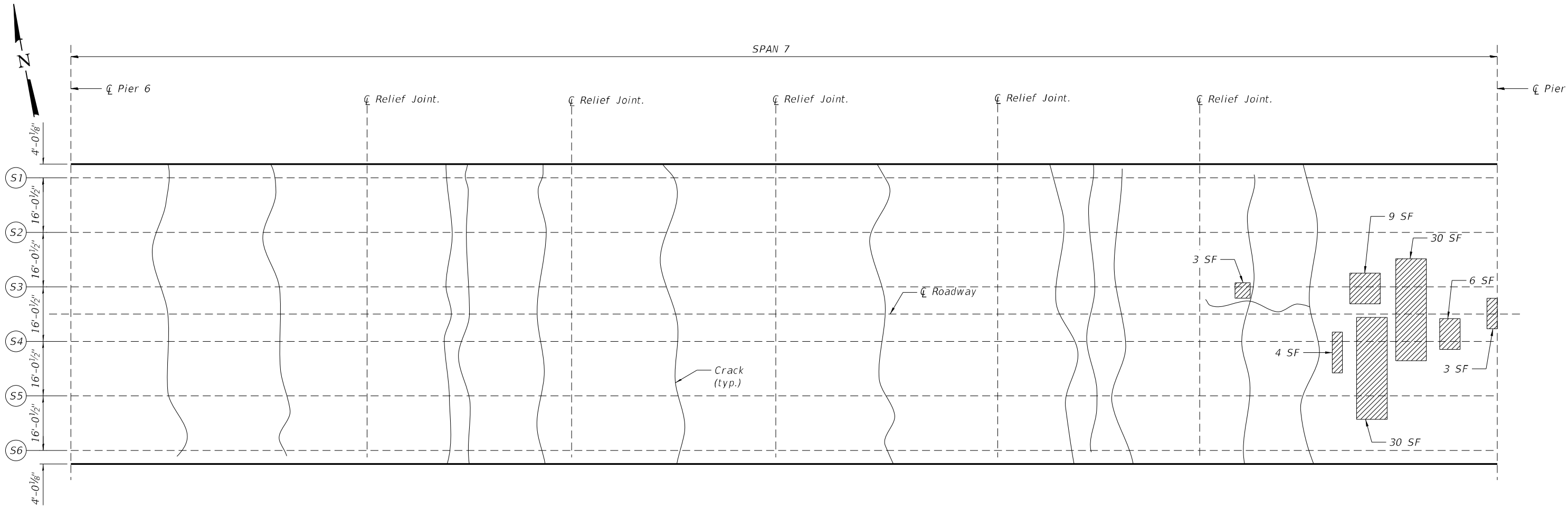
ITEM	UNIT	QUANTITY
Deck Slab Repair (Partial)	Sq Yd	2

LEGEND



Deck Slab Repair (Partial)

MODEL: Deck Patching - sht 04
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TOP OF DECK PLAN

BILL OF MATERIAL SPAN 7

ITEM	UNIT	QUANTITY
Deck Slab Repair (Partial)	Sq Yd	10

LEGEND

 Deck Slab Repair (Partial)



USER NAME =	DESIGNED -	REVISED -
	CHECKED -	REVISED -
PLOT SCALE =	DRAWN -	REVISED -
PLOT DATE =	CHECKED -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

CONCRETE DECK REPAIR PLAN 4
S.N. 063-0002 HAVANA BRIDGE OVER ILLINOIS RIVER

SHEET S11 OF S41 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
315	(140-B-BR)BP, BRR	FULTON/MASON	163	40
CONTRACT NO. 68F50				
ILLINOIS FED. AID PROJECT				

MODEL: Deck Patching - sht 05
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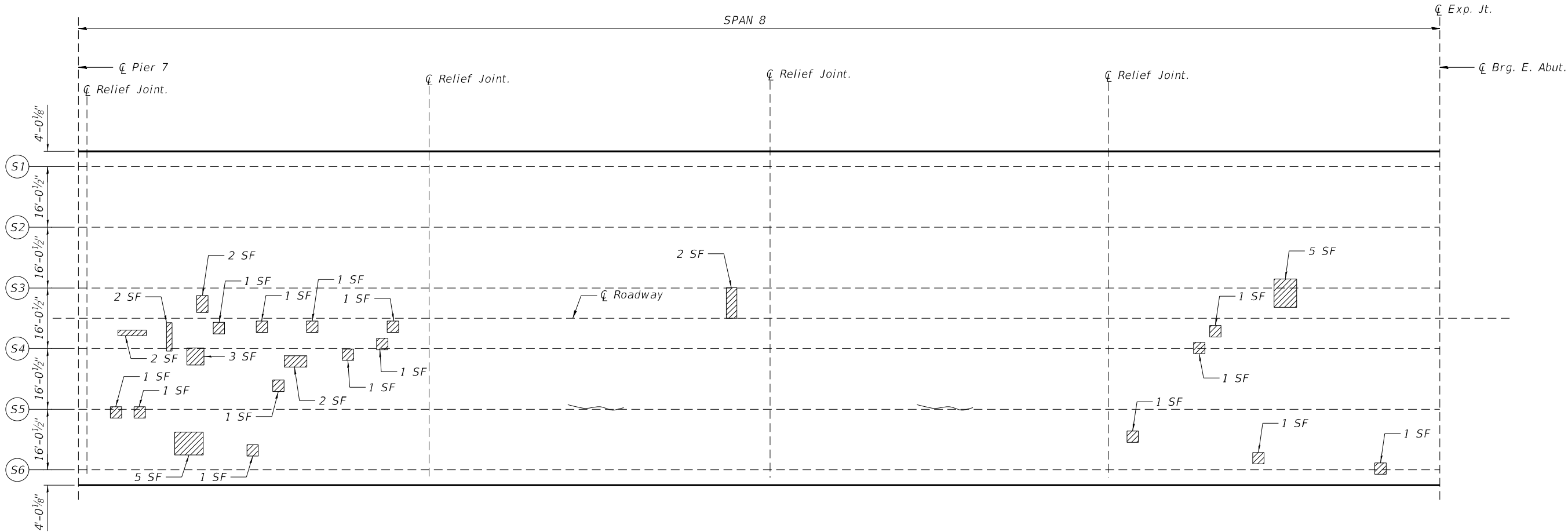
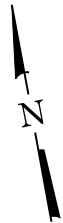
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PLOT DATE =	CHECKED -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

CONCRETE DECK REPAIR PLAN 5
S.N. 063-0002 HAVANA BRIDGE OVER ILLINOIS RIVER

SHEET S12 OF S41 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
315	(140-B-BR)BP, BRR	FULTON/MASON	163	41
CONTRACT NO. 68F50				
		ILLINOIS	FED. AID PROJECT	



TOP OF DECK PLAN

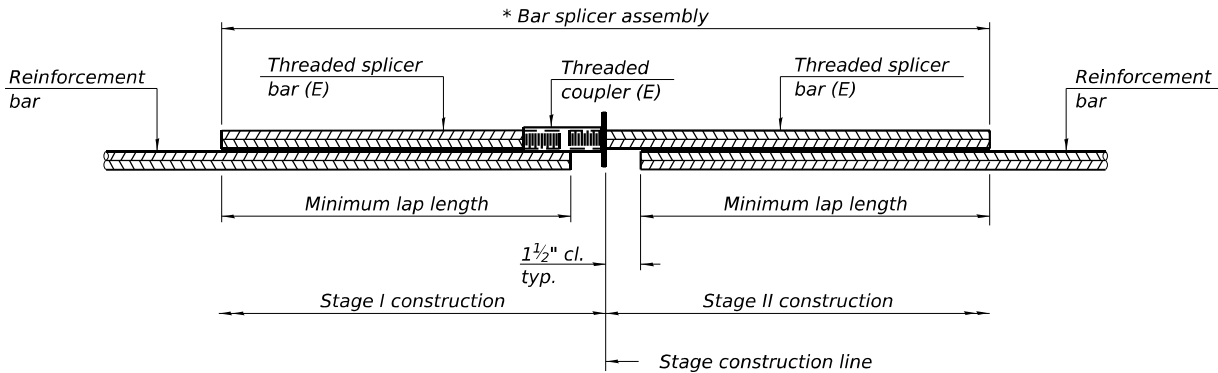
BILL OF MATERIAL SPAN 8

ITEM	UNIT	QUANTITY
Deck Slab Repair (Partial)	Sq Yd	5

LEGEND

 Deck Slab Repair (Partial)

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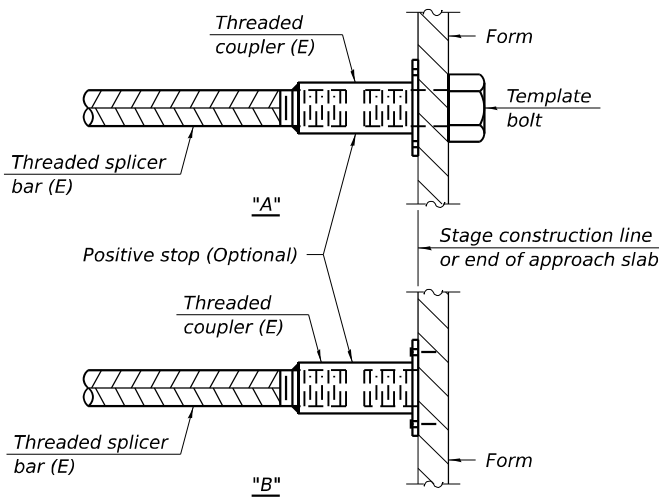
STANDARD BAR SPLICER ASSEMBLY PLAN

Only bar splicer assemblies as presented on the approved QPL list may be used.

Threaded splicer bar length = min. lap length + 1 1/2" + 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
West Abutment	#5	12	3'-10"
Pier 4	#5	10	3'-10"

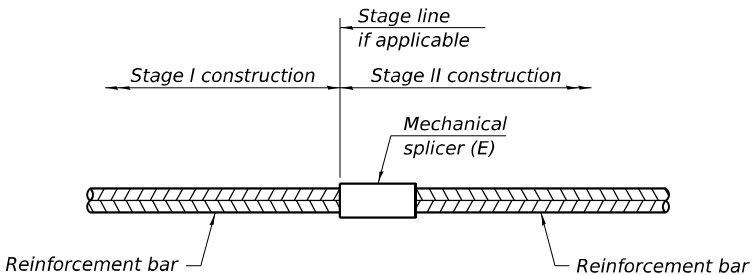


INSTALLATION AND SETTING METHODS

"A" : Set bar splicer assembly by means of a template bolt.

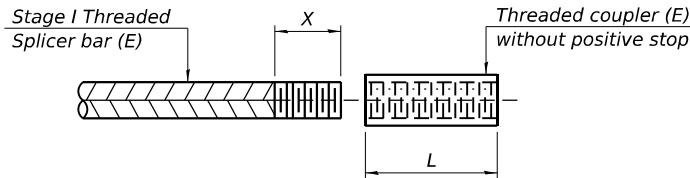
"B" : Set bar splicer assembly by nailing to wood forms or cementing to steel forms.

(E) : Indicates epoxy coating.



STANDARD MECHANICAL SPLICER

Location	Bar size	No. assemblies required



THREADING OF ASSEMBLIES

The threaded length "X" shall be no more than L/2. The bar should be tightened until 0-1 thread(s) is/are exposed.

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

4-4-2025

COLLINS ENGINEERS INC.

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PLOT DATE =	CHECKED - MAH/LDB	REVISED -

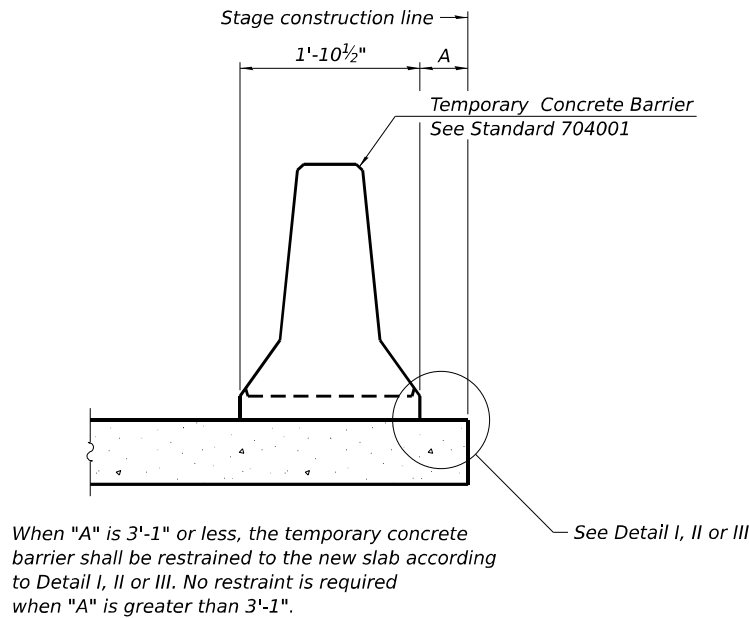
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**BAR SPLICER ASSEMBLY AND MECHANICAL SPLICER DETAILS
S.N. 063-0002 HAVANA BRIDGE OVER ILLINOIS RIVER**

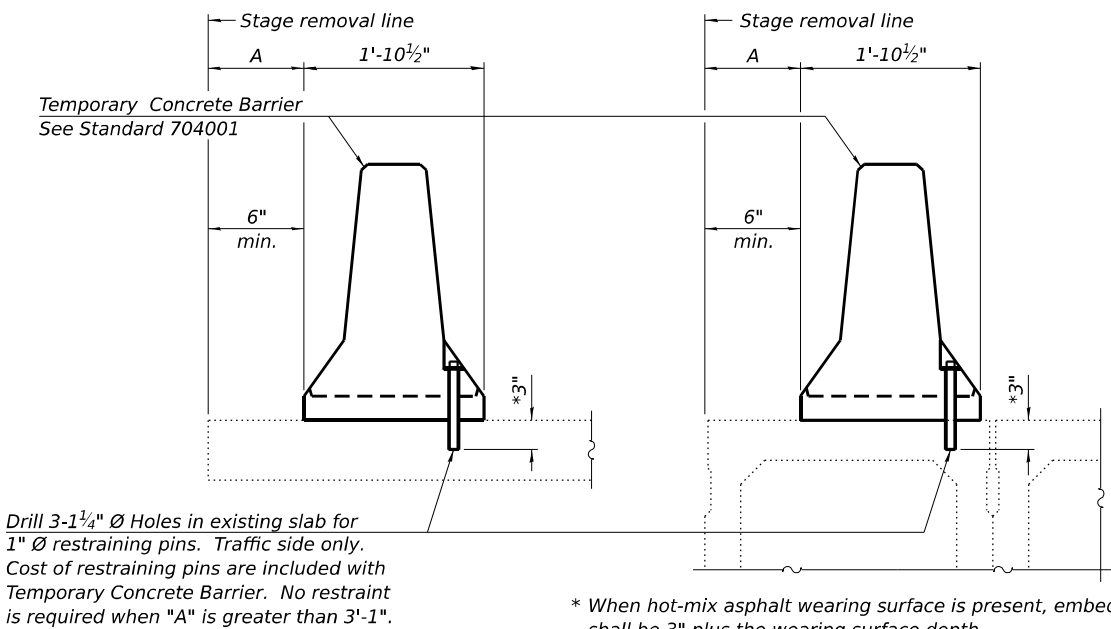
SHEET S13 OF S41 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
315	(140-B-BR)BP, BRR	FULTON/MASON	163	42
CONTRACT NO. 68F50				
		ILLINOIS	FED. AID PROJECT	

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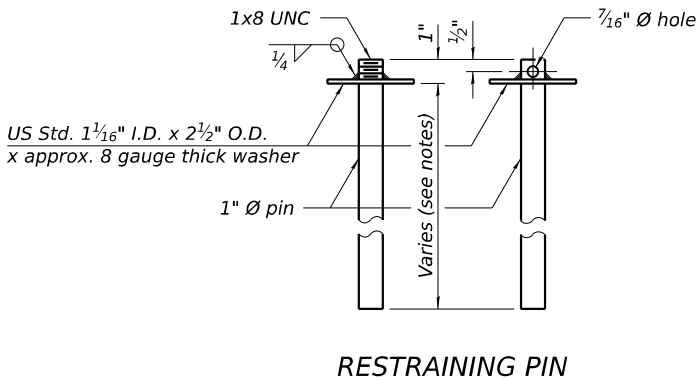


NEW SLAB OR NEW DECK BEAM



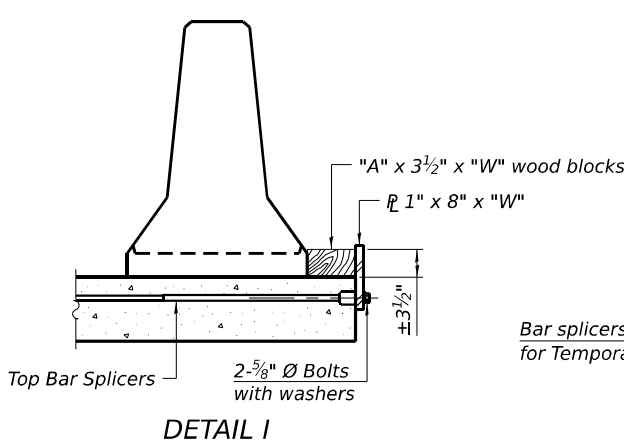
EXISTING SLAB

EXISTING DECK BEAM

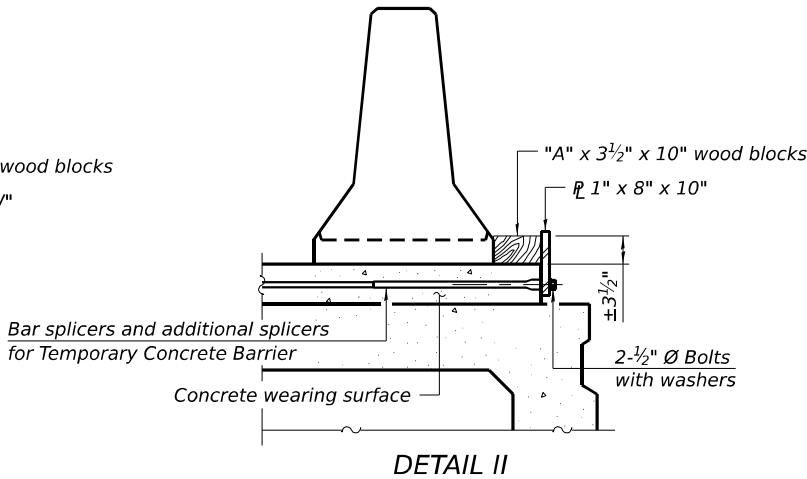


RESTRAINING PIN

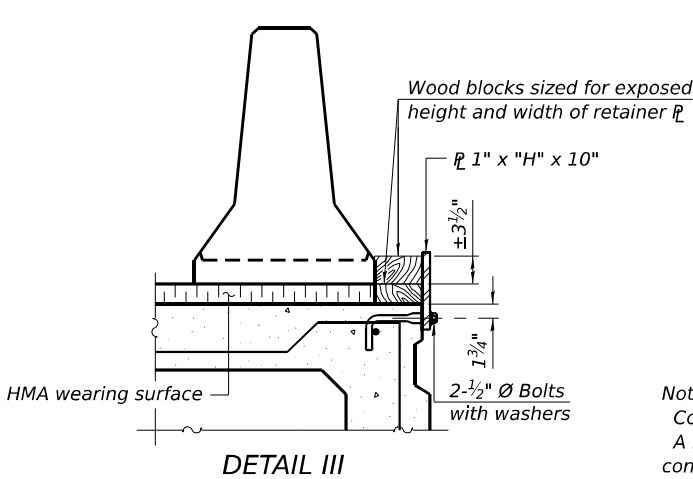
SECTIONS THRU SLAB OR DECK BEAM



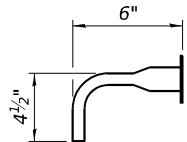
DETAIL I



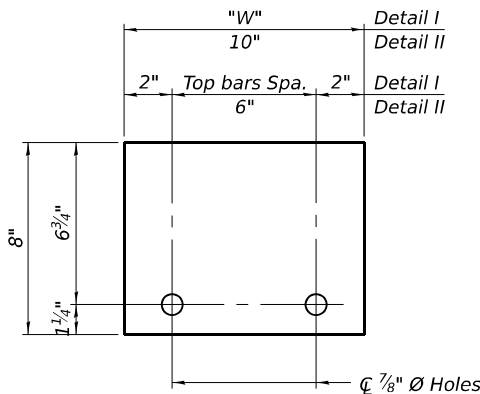
DETAIL II



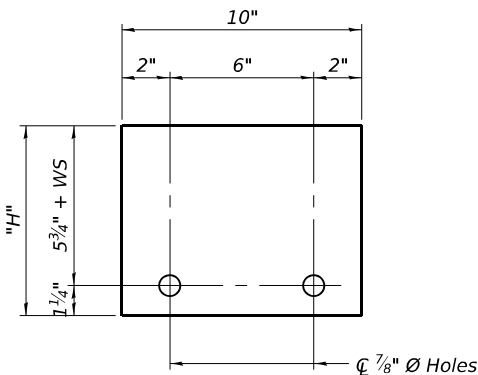
DETAIL III



BAR SPLICER FOR #4 BAR - DETAIL III



STEEL RETAINER 1" x 8" x "W"
(Detail I and II)



STEEL RETAINER 1" x "H" x 10"
(Detail III)

Notes:
Cost of retainer assembly is included with Temporary Concrete Barrier.
A retainer assembly shall be located at the approximate C of each temporary concrete barrier.
The retainer plate shall not be removed until the concrete on the adjacent stage is ready to be poured. For Detail III applications the retainer plate shall not be removed until just prior to placing the adjacent beam.
When the 'A' dimension is less than 1 1/2", the wood block shall be omitted and the barrier shall be placed in direct contact with the steel retainer plate. For deck beam applications the minimum required 'A' distance is 6" to accommodate the shear key clamping device.

Detail I - Installation for a new bridge deck or bridge slab.
Detail II - Installation for a new deck beam with an initial concrete wearing surface. Additional bar splicers shall be provided at 6'-0" centers and paired with the bar splicers of the concrete wearing surface reinforcement to accommodate the installation of the retainer assemblies. The cost of the additional bar splicers is included with the concrete wearing surface.
Detail III - Installation for a new deck beam with no initial wearing surface or with an initial hot-mix asphalt (HMA) wearing surface present. The deck beam directly beneath the temporary concrete barrier shall be fabricated with bar splicer inserts in the side of the beam, as detailed, to accommodate the installation of the retainer assemblies. A pair of bar splicers, 6" apart, shall be placed at 6'-0" centers along the length of the beam. The cost of the bar splicers is included with the deck beam.

RAILING CRITERIA

NCHRP 350 Test Level	3
Railing Weight (plf)	440

R-27

5-15-2023

COLLINS
ENGINEERS

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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TEMPORARY CONCRETE BARRIER
S.N. 063-0002 HAVANA BRIDGE OVER ILLINOIS RIVER

SHEET S14 OF S41 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
315	(140-B-BR)BP, BRR	FULTON/MASON	163	43
CONTRACT NO. 68F50				
ILLINOIS FED. AID PROJECT				

GUSSET REPAIR GENERAL NOTES

Repair plates, fill 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 satisfy AASHTO sealing, stitching, and edge distance 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.

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. Cost shall be included in Structural Steel Repair.

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 Painting Notes, Sheet SP2). See Sealant Detail on this sheet. All costs associated with the installation of the sealant shall be included in Structural Steel Repair.

Depending on the condition of existing structural steel, steel reinforced epoxy putty, compatible with structural steel and proposed paint system, shall be used to address variations in existing material thickness to promote a flush plating repair free of voids which could allow water infiltration. See Epoxy Putty Detail on this sheet.

Gaps between the existing and new steel angles and/or plates, as well as abandoned holes to be covdred 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.

Unless indicated otherwise, cleaning and painting of contact surfaces shall meet the requirements for primary connections as specified in the special provision "Cleaning and Painting Contact Surface Areas of Existing Steel Structures."

GUSSET REPAIR PROCEDURES

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.

The Contractor shall complete the installation of individual plates or angles at the end of each day.

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, see Sealant Detail on this sheet.

GUSSET REPAIR LOAD RESTRICTIONS

During gusset repairs, vehicular live load shall be restricted to the lane farthest from the gusset plate under repair.

Construction loading assumed for design consisted of the temporary concrete barrier and a construction load of 20 psf.

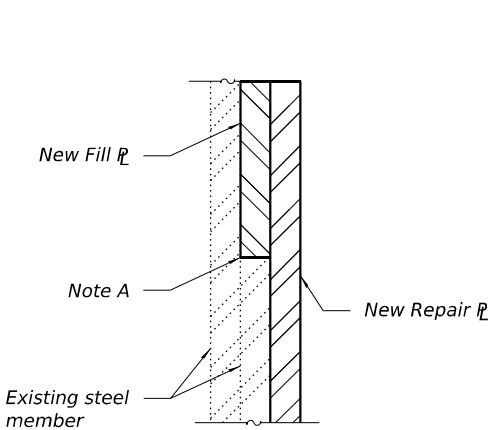
As-designed load capacity ratings for the as-repaired condition considered the construction loads as locked-in stresses for the original material. Note that vehicular live load stresses from the far lane were not considered locked-in due to the transitory nature of this loading.

The Contractor shall confirm that the combined weight of construction vehicles, equipment, work platforms and 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.

No stockpiling of materials allowed.

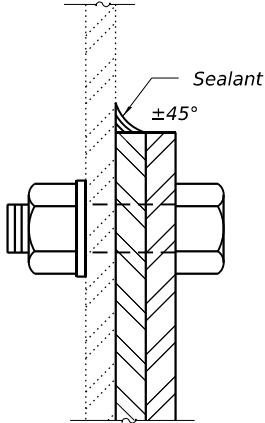
REPAIR IDENTIFIER LEGEND

BFP	Beveled Fill Plate
GBP	Gusset Batten Plate
GFP	Gusset Fill Plate
GRL	Gusset Repair Angle
GRP	Gusset Repair Plate
GSFP	Gusset Splice Fill Plate
GSRP	Gusset Splice Repair Plate
HCSFP	Horizontal Chord Splice Fill Plate
HCSRP	Horizontal Chord Splice Repair Plate
LB	Lacing Bar
LCP	Lateral Connection Plate
LGRP	Lateral Gusset Repair Plate
LGFP	Lateral Gusset Fill Plate
LCRC	Lower Chord Repair Channel
LCRP	Lower Chord Repair Plate
LCFP	Lower Chord Fill Plate
SRP	Splice Repair Plate
TDRP	Truss Diagonal Repair Plate
TDFP	Truss Diagonal Fill Plate
TVRP	Truss Vertical Repair Plate



EPOXY PUTTY DETAIL

Note A: Apply a sealer compatible with structural steel in this damaged area after cleaning and painting and prior to installing repair plates.



SEALANT DETAIL

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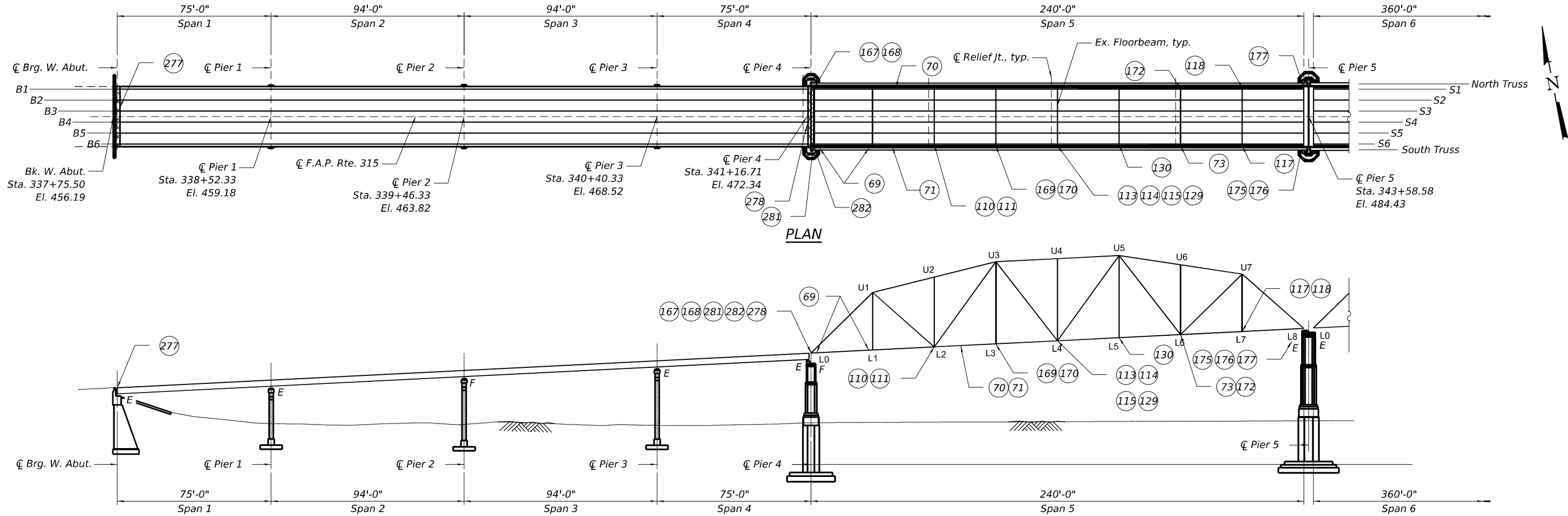
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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

STEEL REPAIR GENERAL NOTES
S.N. 063-0002 HAVANA BRIDGE OVER ILLINOIS RIVER

SHEET S15 OF S41 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
315	(140-B-BR)BP, BRR	FULTON/MASON	163	44
				CONTRACT NO. 68F50
		ILLINOIS	FED. AID PROJECT	



SUPERSTRUCTURE STEEL REPAIR SCHEDULE

NBIS Inspection Deficiency Item No.	Sheet No.	Item	Location	Repair Action
69	S20	Truss Member Repair	Span 5: L0S-L1S	Attach repair and fill plates to exterior face of bottom chord at memeber end and gusset plate.
70	S32		Span 5: L2N-L3N	
71	S27		Span 5: L2S-L3S	
172	S29		Span 5: U5N-L6N	
110	S27	Gusset Plate Repair	Span 5: L2S (OP)	Attach repair plate to exterior faces of exisiting gusset plates.
111	S27		Span 5: L2S (IP)	
113	S28		U3S-L4S	
114	S28		L4S-L5S	
129	S28		L4S-L5S	
130	S23		Span 5: L5S	
167	S19		Span 5: L0N (OP)	
168	S19		Span 5: L0N (IP)	
169	S22		Span 5: L3S (OP)	
170	S22		Span 5: L3S (IP)	
175	S20		Span 5: L8S (OP)	
176	S20		Span 5: L8S (IP)	
177	S22		Span 5: L8N (OP)	
281	S20		Span 5: L0S (IP)	
282	S20		Span 5: L0S (OP)	
277	S4	Exp. Jt. Repair	West Abutment	Remove existing neoprene expansion joint; replace with strip seal expansion joint.
278	S5		Pier 4	
-	S7	Relief Jt. Repair	Span 5: Near FB2	Remove and replace relief joint preformed joint seal.
-	S7		Span 5: Near FB4	
-	S7		Span 5: Near FB6	
115	S39	Lateral Conn. Repair	Span 5: L4S	Cut exsiting lateral brace connection plate; attach repair and fill plates.

LEGEND

- (XX) NBIS Deficiency Item No.
-  Concrete removal for expansion joint replacement

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COLLINS ENGINEERS

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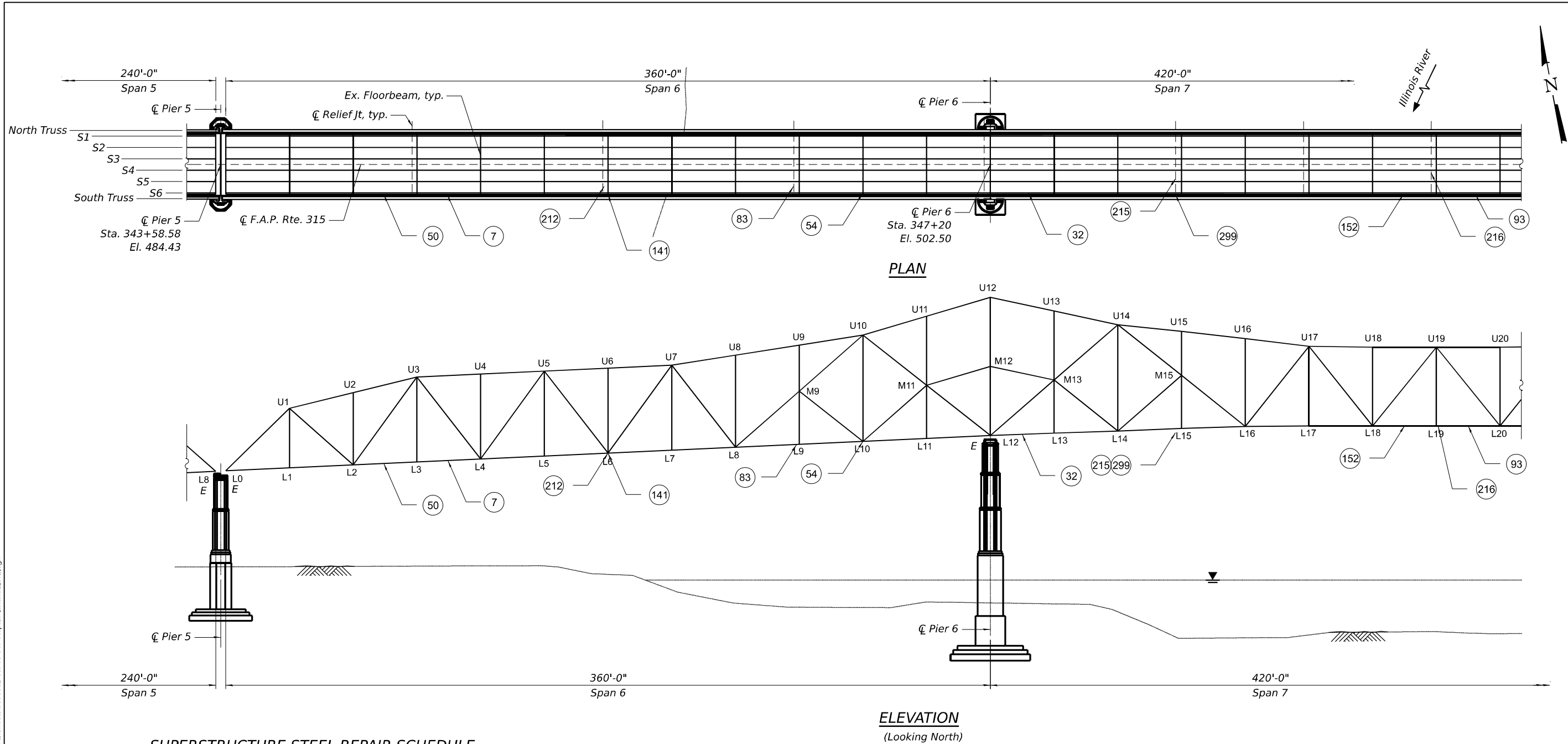
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

REPAIR PLAN AND ELEVATION 1
S.N. 063-0002 HAVANA BRIDGE OVER ILLINOIS RIVER

SHEET S16 OF S41 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
315	(140-B-BR)BP, BRR	FULTON/MASON	163	45
CONTRACT NO. 68F50				
ILLINOIS FED. AID PROJECT				

MODEL: Default
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10/1/2025 12:43:58 PM



SUPERSTRUCTURE STEEL REPAIR SCHEDULE

NBIS Inspection Deficiency Item No.	Sheet No.	Item	Location	Repair Action
7	S35	Truss Member Repair	Span 6: L3S-L4S	Attach repair and fill plates to exterior face of bottom chord at memeber end and gusset plate.
50	S34		Span 6: L2S-L3S	
93	S36		Span 7: L19S-L20S	
141	S29		Span 6: L6S-U7S	
152	S37		Span 7: L18S	
54	S27	Gusset Plate Repair	Span 6: L10S (IP)	Attach repair plate to exterior faces of exsiting gusset plates.
299	S25		Span 7: L15S (IP)	
-	S7	Relief Jt. Repair	Span 6: Near FB3	Remove and replace relief joint preformed joint seal.
212	S8		Span 6: Near FB6	
83	S9		Span 6: Near FB9	
-	S10		Span 6: Near FB12	
215	S11		Span 7: Near FB15	
-	S12		Span 7: Near FB17	
216	S13		Span 7: Near FB19	

LEGEND

(XX) NBIS Deficiency Item No.

COLLINS
ENGINEERS

USER NAME =	DESIGNED - JA	REVISED -
	CHECKED - MAH/LDB	REVISED -
PLOT SCALE =	DRAWN - JA	REVISED -
PLOT DATE =	CHECKED - MAH/LDB	REVISED -

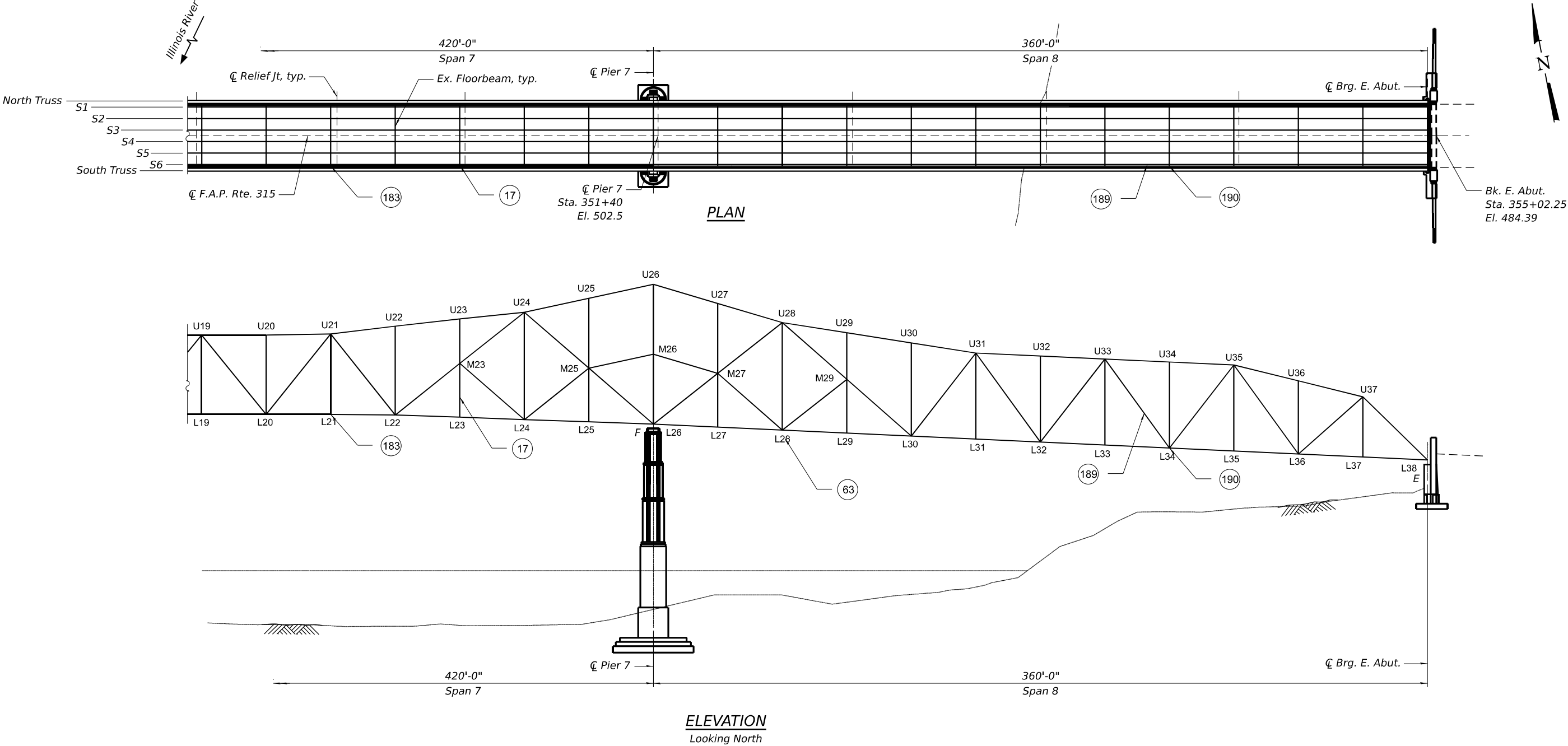
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

REPAIR PLAN AND ELEVATION 2
S.N. 063-0002 HAVANA BRIDGE OVER ILLINOIS RIVER

SHEET S17 OF S41 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
315	(140-B-BR)BP, BRR	FULTON/MASON	163	46
CONTRACT NO. 68F50				
ILLINOIS FED. AID PROJECT				

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SUPERSTRUCTURE STEEL REPAIR SCHEDULE

NBIS Inspection Deficiency Item No.	Sheet No.	Item	Location	Repair Action
17	S38	Truss Member Repair	Span 7: L23S-M23S	Attach repair plate to exterior face of existing chord flanges and gusset plate.
183	S26	Gusset Plate Repair	Span 7: L21S (IP)	Attach repair plate to exterior face of existing gusset plate.
189	S31		Span 8: U33S-L34S	
190	S31		Span 8: L34S-U35S	
-	S7	Relief Jt. Repair	Span 7: Near FB21	Remove and replace relief joint preformed joint seal.
-	S7		Span 7: Near FB23	
-	S7		Span 8: Near FB26	
-	S7		Span 8: Near FB29	
-	S7		Span 8: Near FB32	
-	S7		Span 8: Near FB35	

LEGEND

(XX) NBIS Deficiency Item No.

COLLINS ENGINEERS

USER NAME =	DESIGNED - JA	REVISED -
	CHECKED - MAH/LDB	REVISED -
PLOT SCALE =	DRAWN - JA	REVISED -
PLOT DATE =	CHECKED - MAH/LDB	REVISED -

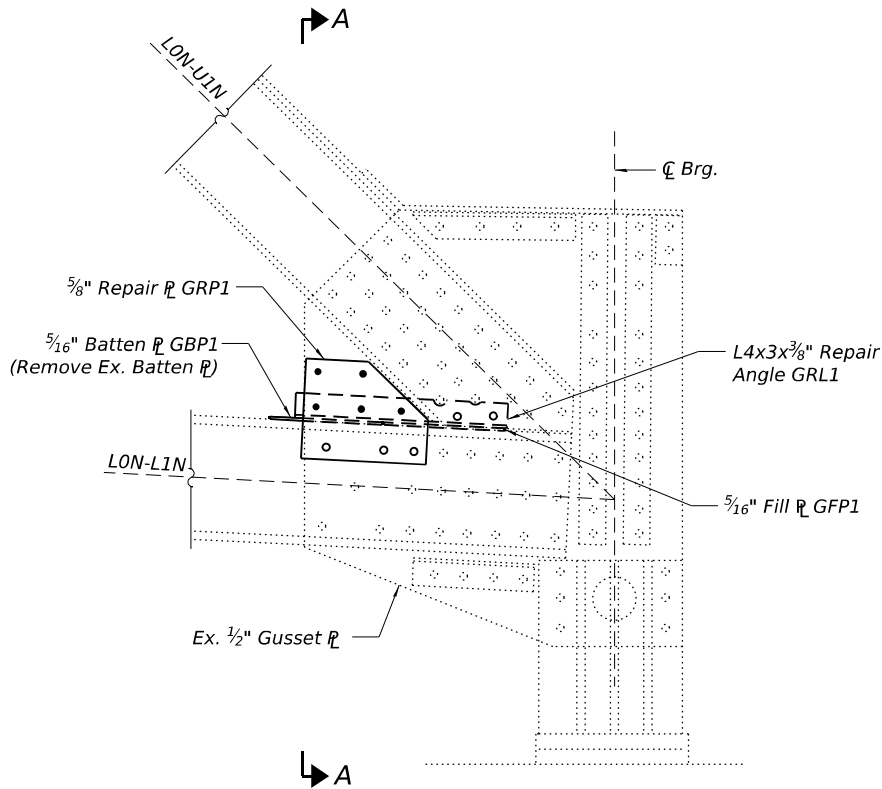
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**REPAIR PLAN AND ELEVATION 3
S.N. 063-0002 HAVANA BRIDGE OVER ILLINOIS RIVER**

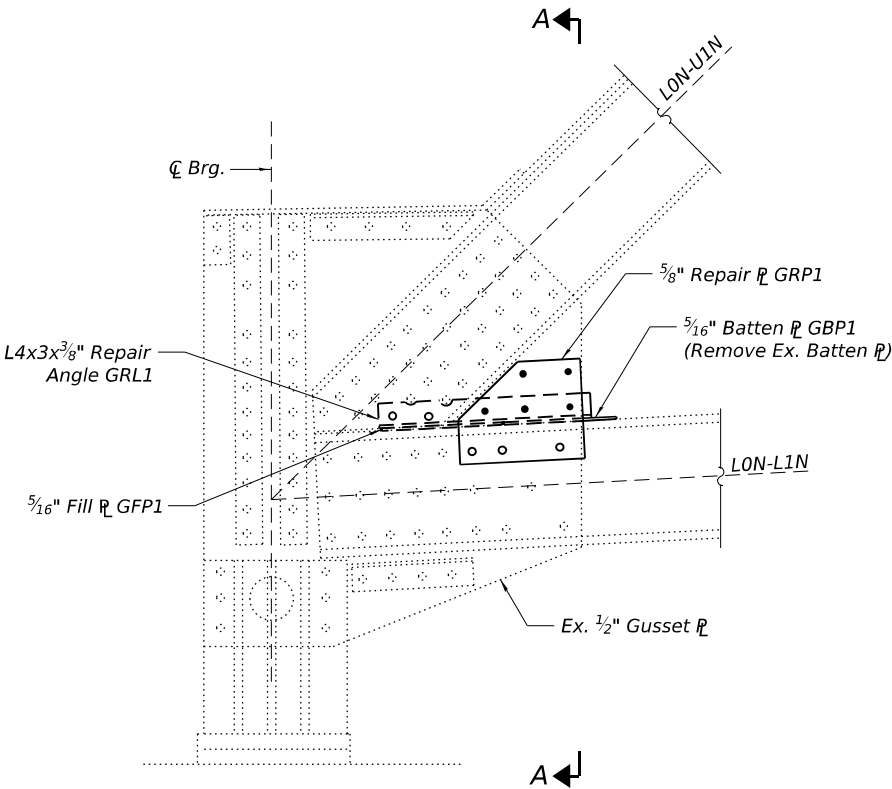
SHEET S18 OF S41 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
315	(140-B-BR)BP, BRR	FULTON/MASON	163	47
CONTRACT NO. 68F50				
ILLINOIS FED. AID PROJECT				

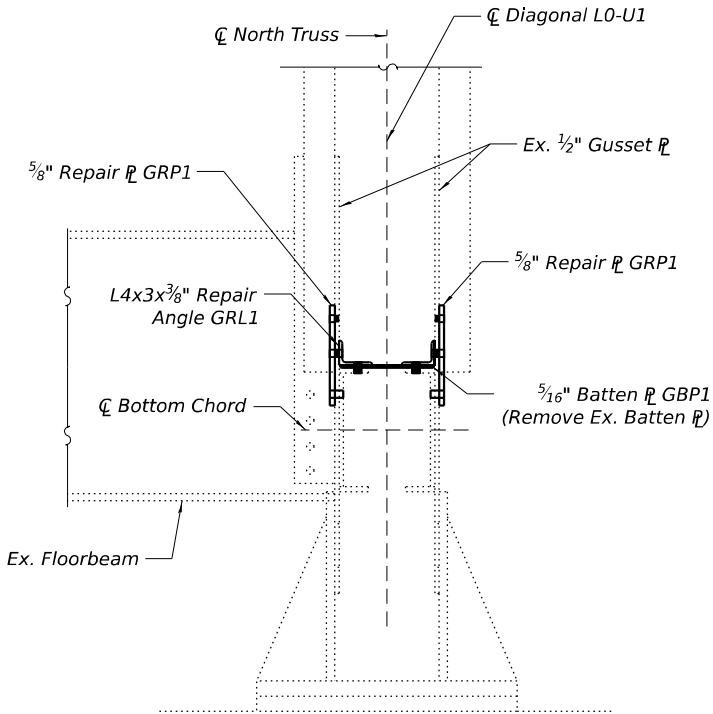
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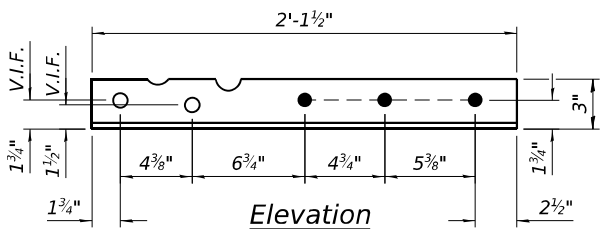
OUTSIDE ELEVATION
(Looking South)



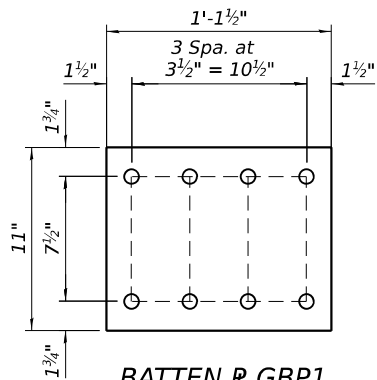
INSIDE ELEVATION
(Looking North)
Field cut/cope new materials to accommodate existing fasteners not used in repair, as required.
Maintain 1/4" min. edge distance.



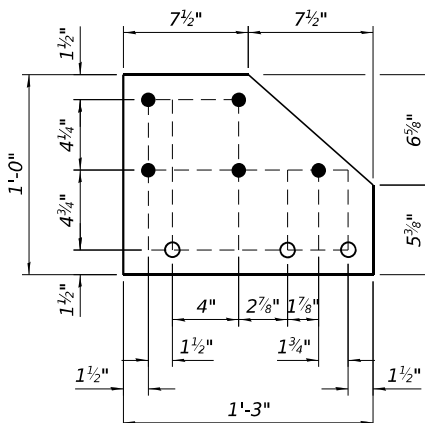
SECTION A-A



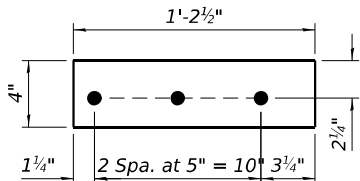
Elevation



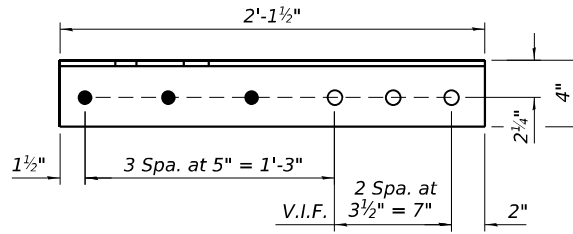
BATTEN PL GBP1



REPAIR PL GRP1
(2 Required)



FILL PL GFP1
(2 Required)



Plan

REPAIR ANGLE GRL1
(2 Required)

NOTES:

The Contractor shall field verify existing dimensions including gusset plates, connection plates, connection angles, miscellaneous steel and layout of the fastener holes prior to ordering new materials.
For Sealant Details, see Sheet S15.
See Sheets S16 thru S18 for NBIS deficiency locations.

LEGEND

- Existing fastener to remain
- New 7/8" dia. A325 bolt in new 1 5/16" dia. hole. Field drill 1 5/16" dia. holes for 7/8" dia. high-strength bolts in existing member. Use repair plate, fill plate, or repair angle as a template.
- Replace existing fastener with new 7/8" dia. A325 bolt in existing hole. Holes in new material shall be field drilled using existing members as a template.

BILL OF MATERIAL

ITEM	UNIT	TOTAL
Structural Steel Repair	Pound	120
Structural Steel Removal	Pound	20

REPAIR LOCATIONS

NBIS Deficiency No.	Span	Joint	Truss	Inner PL	Outer PL
167	5	LON	North	1	1
168	5	LON	North	1	1

COLLINS ENGINEERS

USER NAME =	DESIGNED - ZBD	REVISED -
	CHECKED - MAH/LDB	REVISED -
PLOT SCALE =	DRAWN - ZBD	REVISED -
PLOT DATE =	CHECKED - MAH/LDB	REVISED -

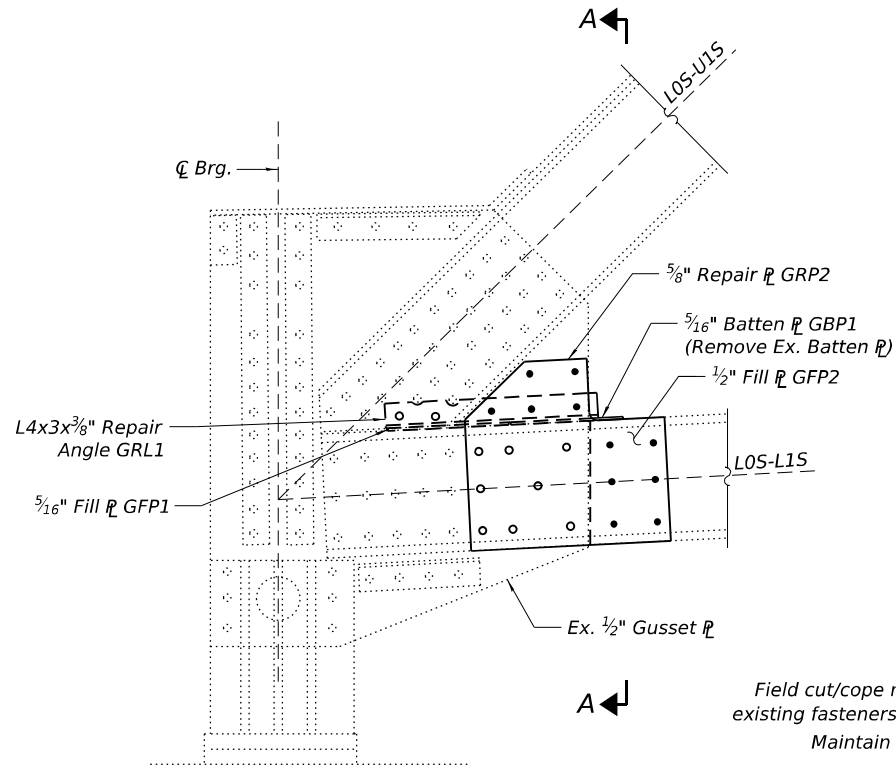
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**GUSSET PLATE REPAIRS 1
S.N. 063-0002 HAVANA BRIDGE OVER ILLINOIS RIVER**

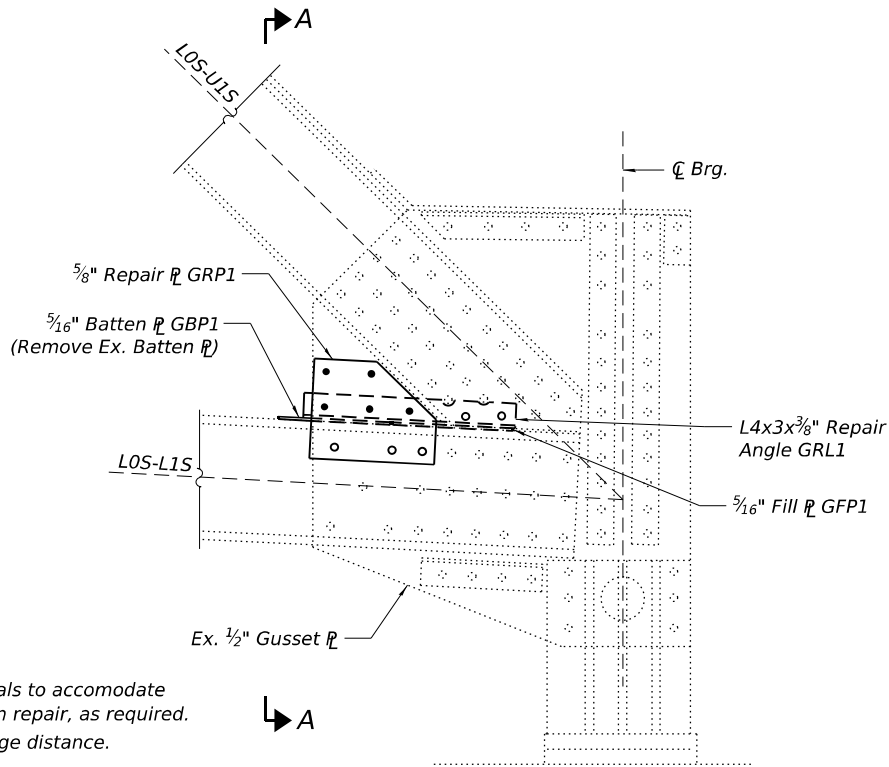
SHEET S19 OF S41 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
315	(140-B-BR)BP, BRR	FULTON/MASON	163	48
CONTRACT NO. 68F50				
ILLINOIS FED. AID PROJECT				

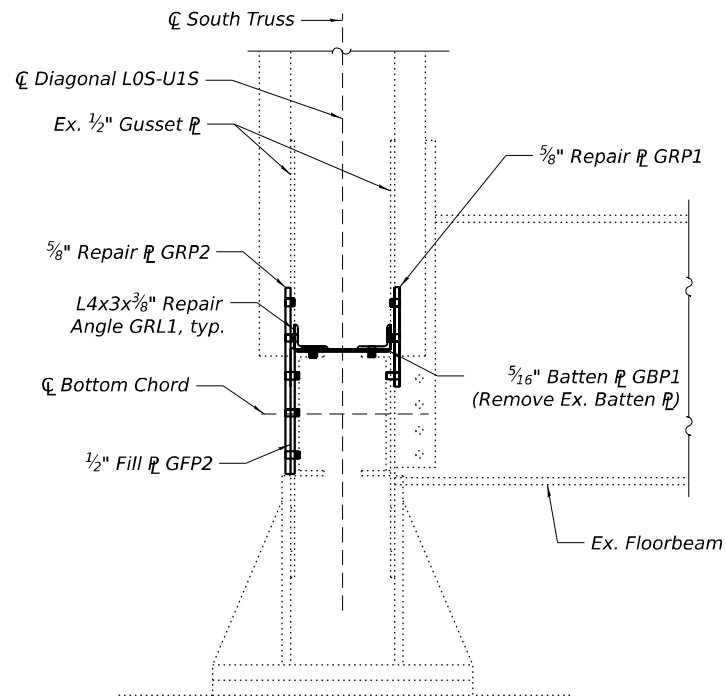
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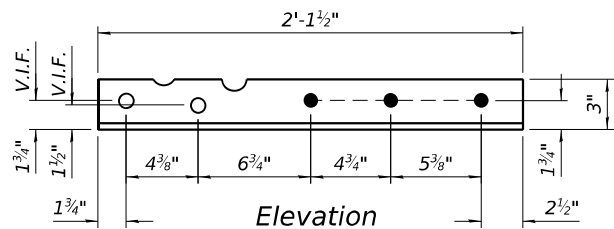
OUTSIDE ELEVATION
(Looking North)



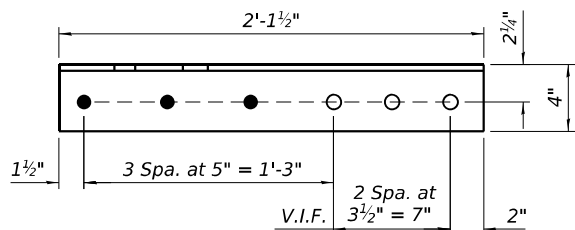
INSIDE ELEVATION
(Looking South)



SECTION A-A

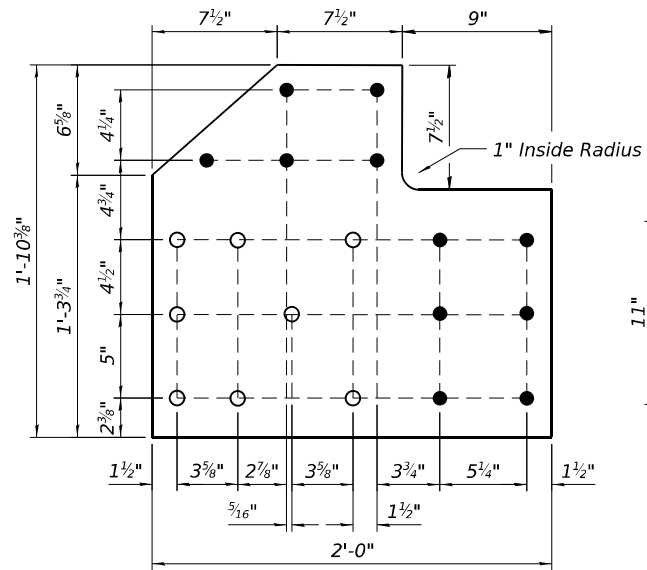


Elevation

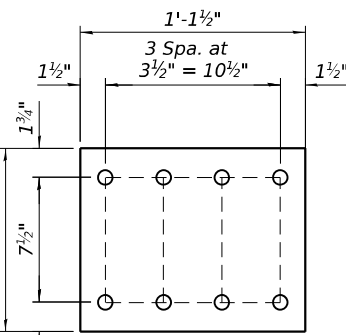


Plan

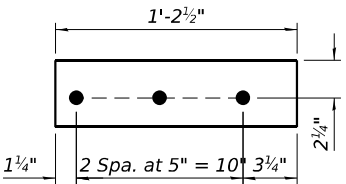
REPAIR ANGLE GRL1
(2 Required)



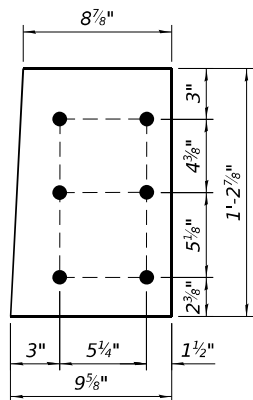
REPAIR P GRP2



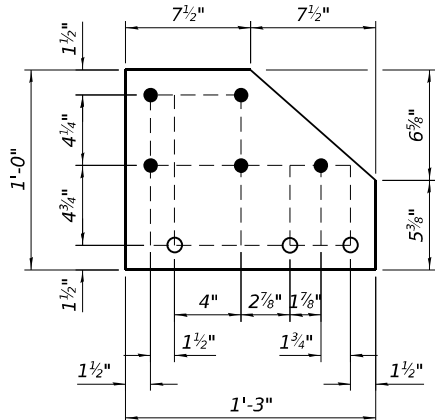
BATTEN P GBP1



FILL P GFP1
(2 Required)



FILL P GFP2



REPAIR P GRP1

NOTES:

The Contractor shall field verify existing dimensions, including gusset plates, connection plates, connection angles, miscellaneous steel and layout of the fastener holes prior to ordering new materials.
For Sealant Details, see Sheet S15.
See Sheet S18 thru S18 for NBIS deficiency locations.

LEGEND

- Existing fastener to remain
- New 7/8" dia. A325 bolt in new 15/16" dia. hole. Field drill 15/16" dia. holes for 7/8" dia. high-strength bolts in existing member. Use repair plate, fill plate, or repair angle as a template.
- Replace existing fastener with new 7/8" dia. A325 bolt in existing hole. Holes in new material shall be field drilled using existing members as a template.

BILL OF MATERIAL

ITEM	UNIT	TOTAL
Structural Steel Repair	Pound	180
Structural Steel Removal	Pound	20

REPAIR LOCATIONS

NBIS Deficiency No.	Span	Joint	Truss	Inner P	Outer P
281	5	L0S	South	1	1
282	5	L0S	South	1	1
69	5	L0S	South	1	1

COLLINS ENGINEERS

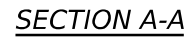
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	CHECKED - MAH/LDB	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

GUSSET PLATE REPAIRS 2
S.N. 063-0002 HAVANA BRIDGE OVER ILLINOIS RIVER

SHEET S20 OF S41 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
315	(140-B-BR)BP, BRR	FULTON/MASON	163	49
CONTRACT NO. 68F50				
ILLINOIS FED. AID PROJECT				



REPAIR ANGLE GRL2
(2 Required)



NOTES:

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

For Sealant Details, see Sheet S15.

See Sheet S16 thru S18 for NBIS deficiency locations.



LEGEND

- ✧ Existing fastener to remain
 - New $\frac{7}{8}$ " dia. A325 bolt in new $1\frac{5}{16}$ " dia. hole. Field drill $1\frac{5}{16}$ " dia. holes for $\frac{7}{8}$ " dia. high-strength bolts in existing member. Use repair plate, fill plate, or repair angle as a template.
- g
- Replace existing fastener with new
- $\frac{7}{8}$ " dia. A325 bolt in existing hole. Holes in new material shall be field drilled using existing members as a template.



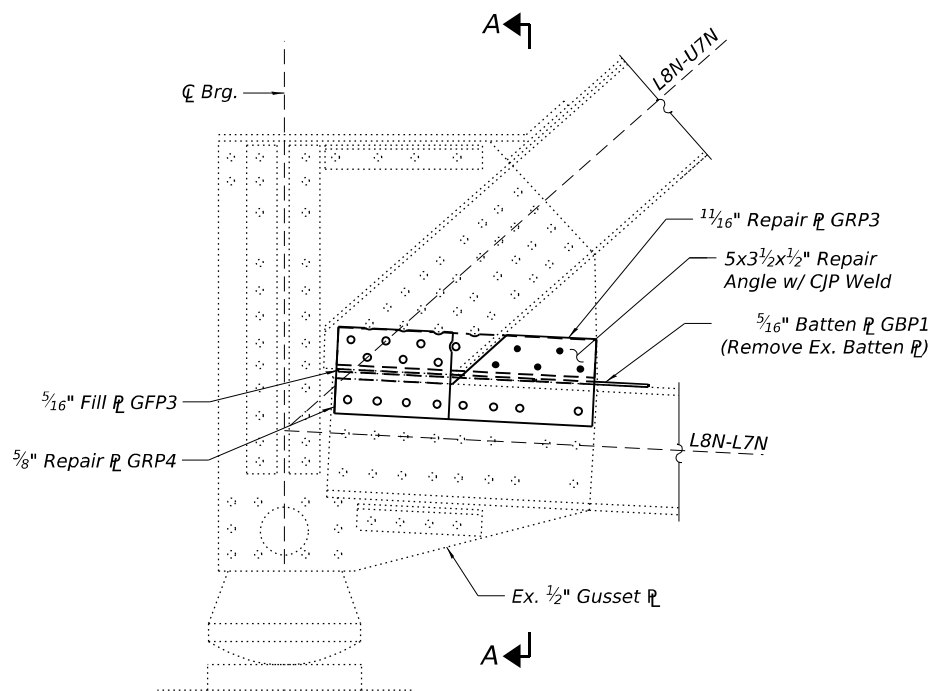
BILL OF MATERIAL

ITEM	UNIT	TOTAL
Structural Steel Repair	Pound	240
Structural Steel Removal	Pound	20

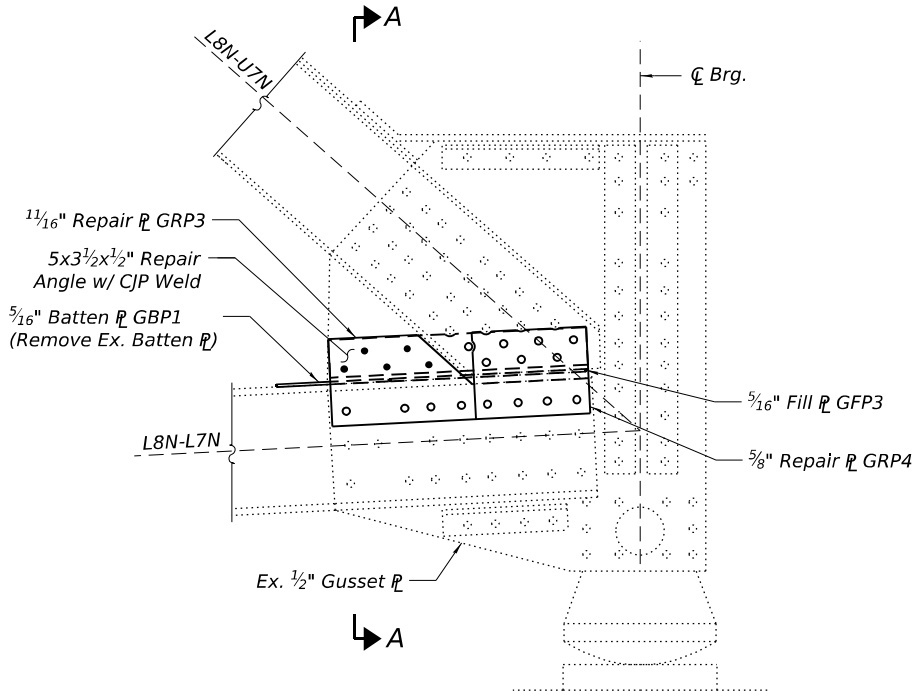
REPAIR LOCATIONS

NBIS Deficiency No.	Span	Joint	Truss	Inner P	Outer P
175	5	L8S	South	1	2
176	5	L8S	South	1	2

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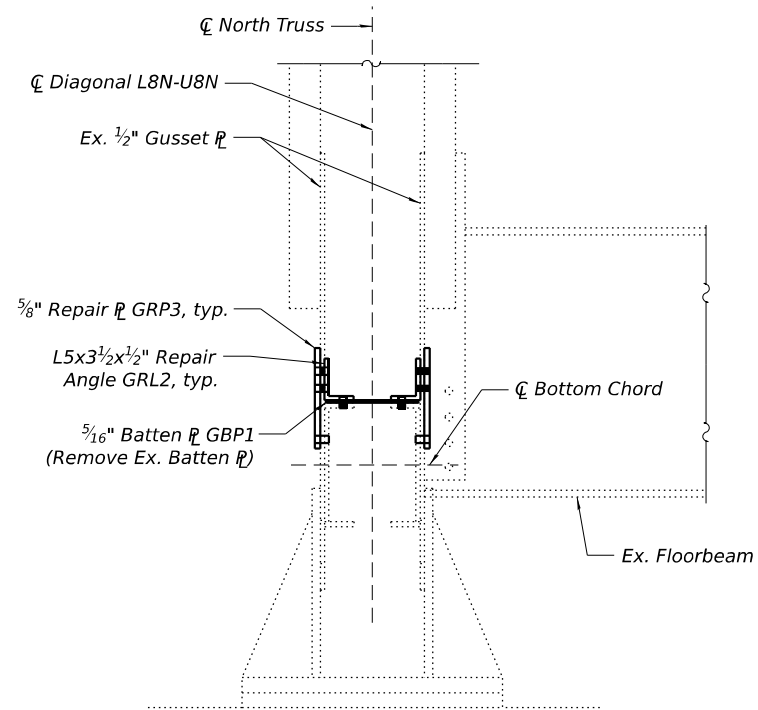


OUTSIDE ELEVATION
(Looking South)

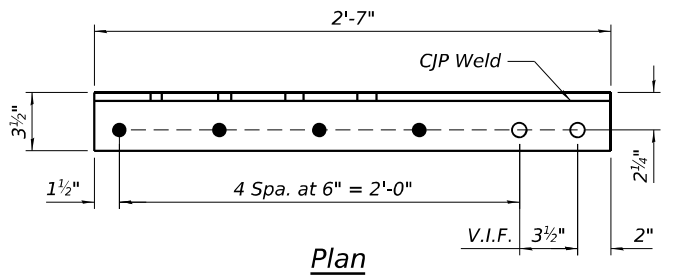
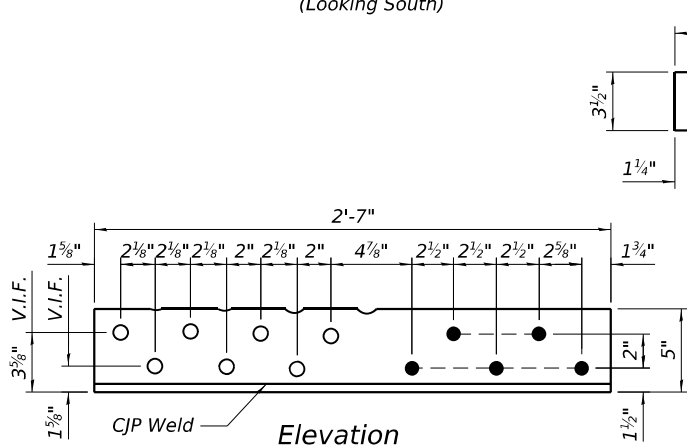


INSIDE ELEVATION
(Looking North)

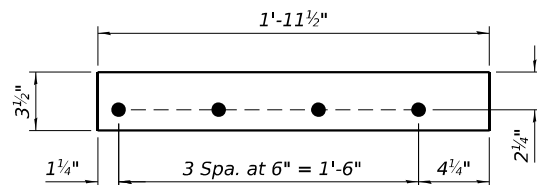
Field cut/cope new materials to accommodate existing fasteners not used in repair, as required. Maintain min. 1/4" edge distance.



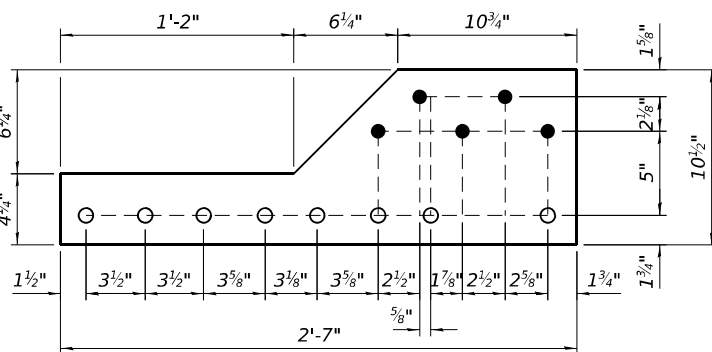
SECTION A-A



REPAIR ANGLE GRL2
(2 Required)



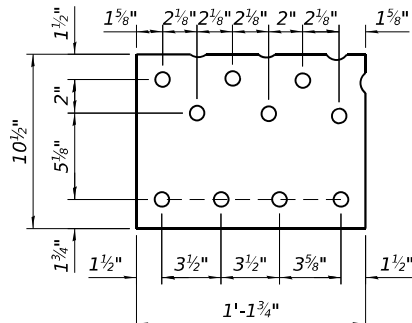
FILL PL GFP3
(2 Required)



REPAIR PL GRP3
(2 Required)

NOTES:

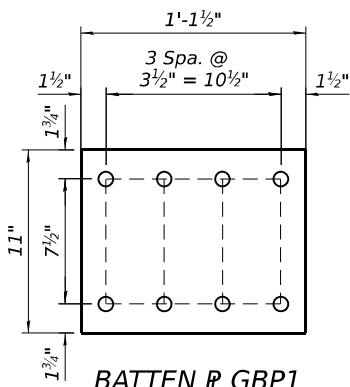
The Contractor shall field verify existing dimensions, including gusset plates, connection plates, connection angles, miscellaneous steel and layout of the fastener holes prior to ordering new materials.
For Sealant Details, see Sheet S15.
See Sheet S16 thru S18 for NBIS deficiency locations.



REPAIR PL GRP4
(2 Required)

LEGEND

- Existing fastener to remain
- New 7/8" dia. A325 bolt in new 1 5/16" dia. hole. Field drill 1 5/16" dia. holes for 7/8" dia. high-strength bolts in existing member. Use repair plate, fill plate, or repair angle as a template.
- Replace existing fastener with new 7/8" dia. A325 bolt in existing hole. Holes in new material shall be field drilled using existing members as a template.



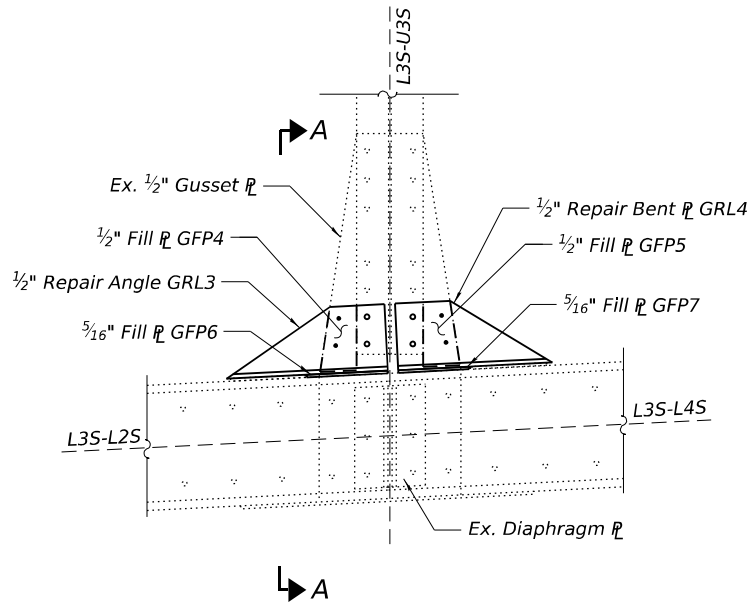
BILL OF MATERIAL

ITEM	UNIT	TOTAL
Structural Steel Repair	Pound	240
Structural Steel Removal	Pound	20

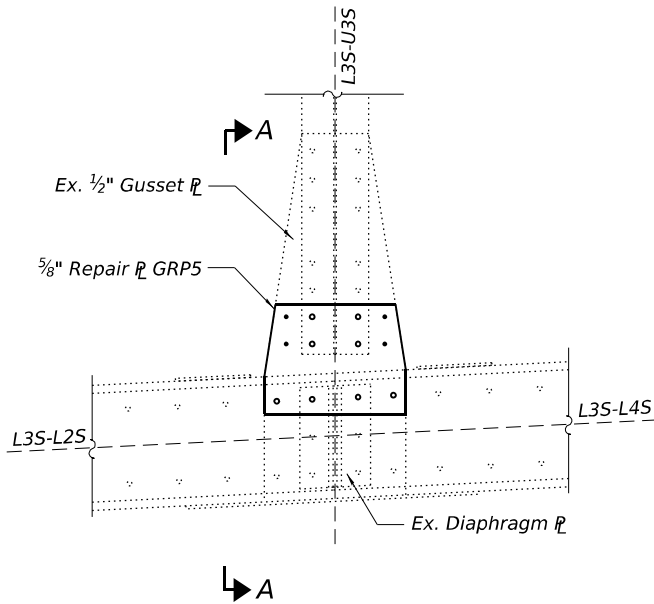
REPAIR LOCATIONS

NBIS Deficiency No.	Span	Joint	Truss	Inner PL	Outer PL
177	5	L8N	North	1	2

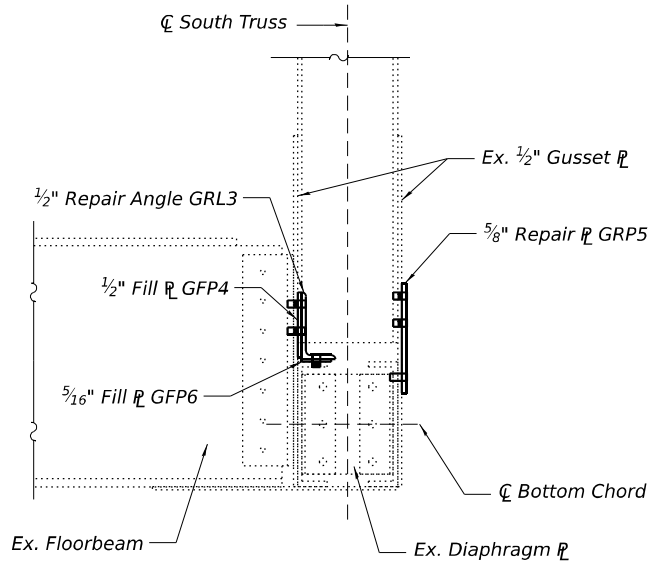
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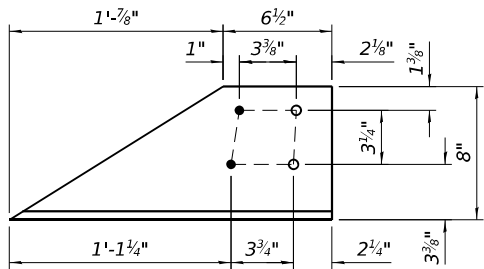
OUTSIDE ELEVATION OF INSIDE GUSSET PLATE
(Looking North)



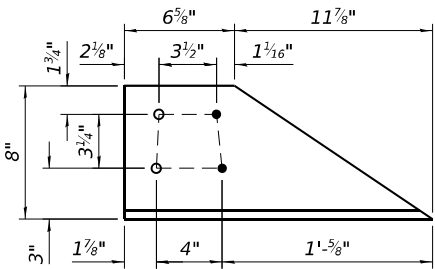
OUTSIDE ELEVATION OF OUTSIDE GUSSET PLATE
(Looking North)



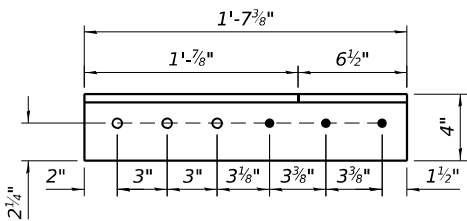
SECTION A-A



Elevation View

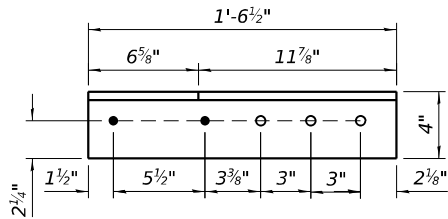


Elevation View



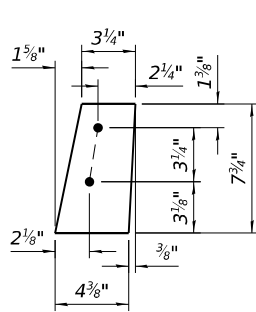
Plan View

GUSSET REPAIR ANGLE GRL3

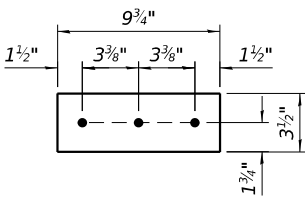


Plan View

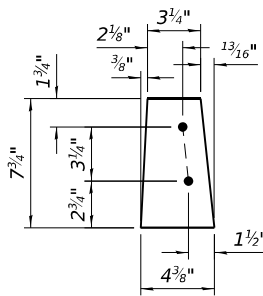
GUSSET REPAIR BENT PL GRL4



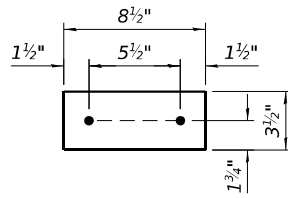
GUSSET FILL PL GFP4



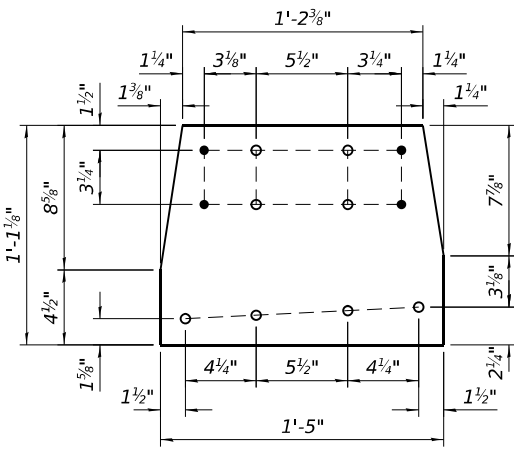
GUSSET FILL PL GFP6



GUSSET FILL PL GFP5



GUSSET FILL PL GFP7



REPAIR PL GRP5

NOTES:

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 Sealant Details, see Sheet S15.
See Sheet S16 thru S18 for NBIS deficiency locations.

LEGEND

- Existing fastener to remain
- New 7/8" dia. A325 bolt in new 1 5/16" dia. hole. Field drill 1 5/16" dia. holes for 7/8" dia. high-strength bolts in existing member. Use repair plate, fill plate, or repair angle as a template.
- Replace existing fastener with new 7/8" dia. A325 bolt in existing hole. Holes in new material shall be field drilled using existing members as a template.

BILL OF MATERIAL

ITEM	UNIT	TOTAL
Structural Steel Repair	Pound	110

REPAIR LOCATIONS

NBIS Deficiency No.	Span	Joint	Truss	Inner PL	Outer PL
169	5	L3S	South		1
170	5	L3S	South		2

COLLINS ENGINEERS

USER NAME =	DESIGNED - ZBD	REVISED -
	CHECKED - MAH/LDB	REVISED -
PLOT SCALE =	DRAWN - ZBD	REVISED -
PLOT DATE =	CHECKED - MAH/LDB	REVISED -

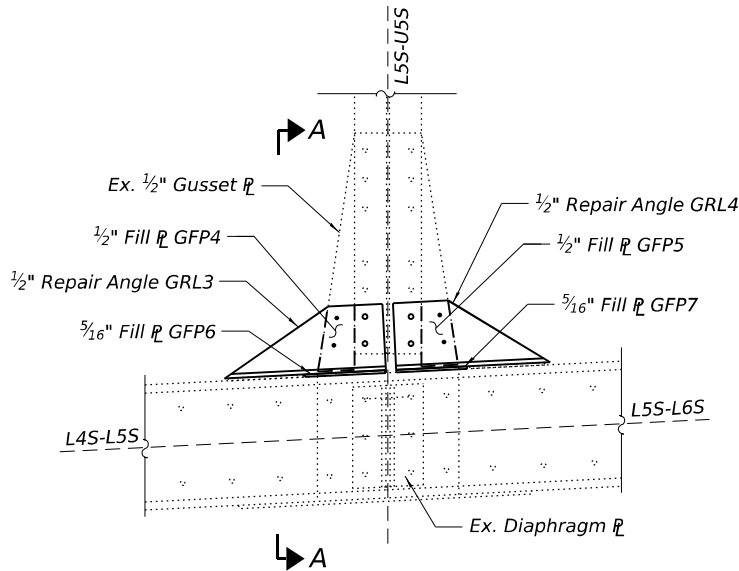
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**GUSSET PLATE REPAIRS 5
S.N. 063-0002 HAVANA BRIDGE OVER ILLINOIS RIVER**

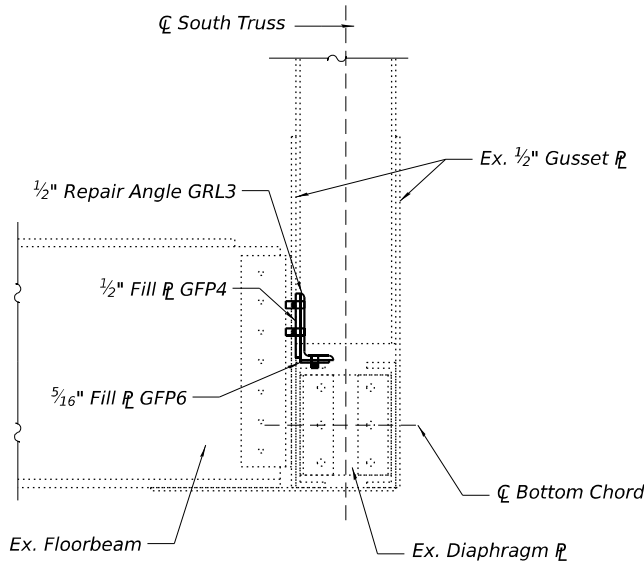
SHEET S23 OF S41 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
315	(140-B-BR)BP, BRR	FULTON/MASON	163	52
CONTRACT NO. 68F50				
ILLINOIS FED. AID PROJECT				

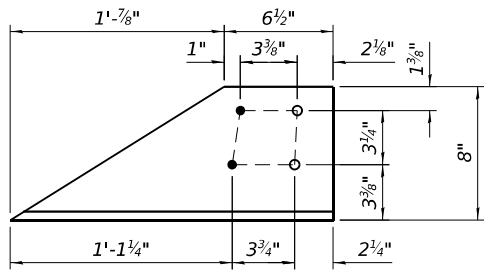
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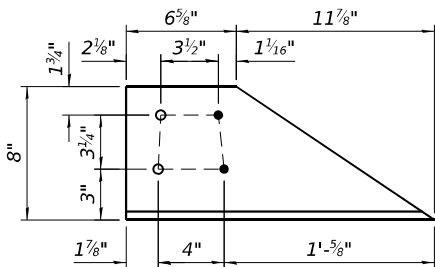
OUTSIDE ELEVATION OF INSIDE GUSSET PLATE
(Looking North)



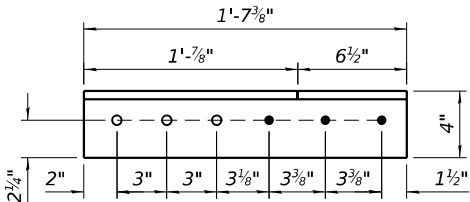
SECTION A-A



Elevation View

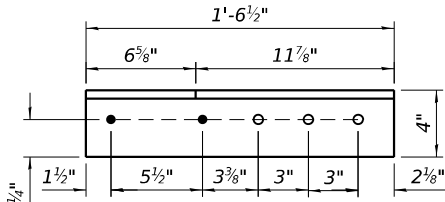


Elevation View



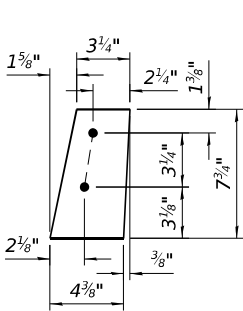
Plan View

GUSSET REPAIR ANGLE GRL3

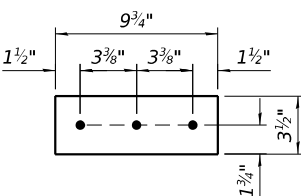


Plan View

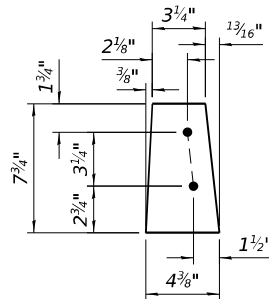
GUSSET REPAIR ANGLE GRL4



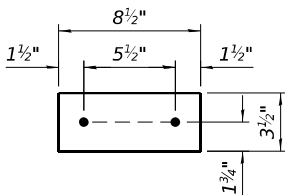
GUSSET FILL P GFP4



GUSSET FILL P GFP6



GUSSET FILL P GFP5



GUSSET FILL P GFP7

NOTES:

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 Sealant Details, see Sheet S15.
See Sheet S16 thru S18 for NBIS deficiency locations.

LEGEND

- Existing fastener to remain
- New 7/8" dia. A325 bolt in new 1 5/16" dia. hole. Field drill 1 5/16" dia. holes for 7/8" dia. high-strength bolts in existing member. Use repair plate, fill plate, or repair angle as a template.
- Replace existing fastener with new 7/8" dia. A325 bolt in existing hole. Holes in new material shall be field drilled using existing members as a template.

BILL OF MATERIAL

ITEM	UNIT	TOTAL
Structural Steel Repair	Pound	70

REPAIR LOCATIONS

NBIS Deficiency No.	Span	Joint	Truss	Inner P	Outer P
130	5	L5S	South		2

COLLINS
ENGINEERS

USER NAME =	DESIGNED - ZBD	REVISED -
	CHECKED - MAH/LDB	REVISED -
PLOT SCALE =	DRAWN - ZBD	REVISED -
PLOT DATE =	CHECKED - MAH/LDB	REVISED -

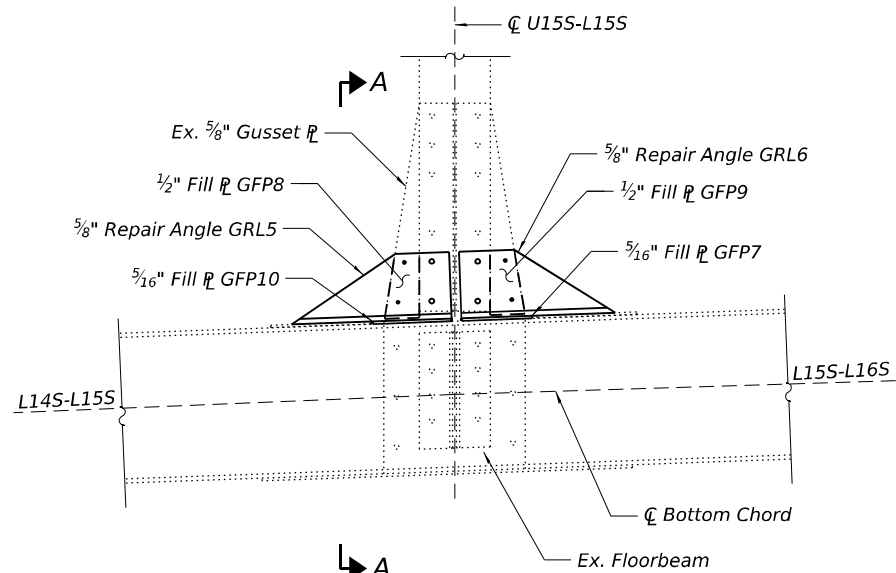
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

GUSSET PLATE REPAIRS 6
S.N. 063-0002 HAVANA BRIDGE OVER ILLINOIS RIVER

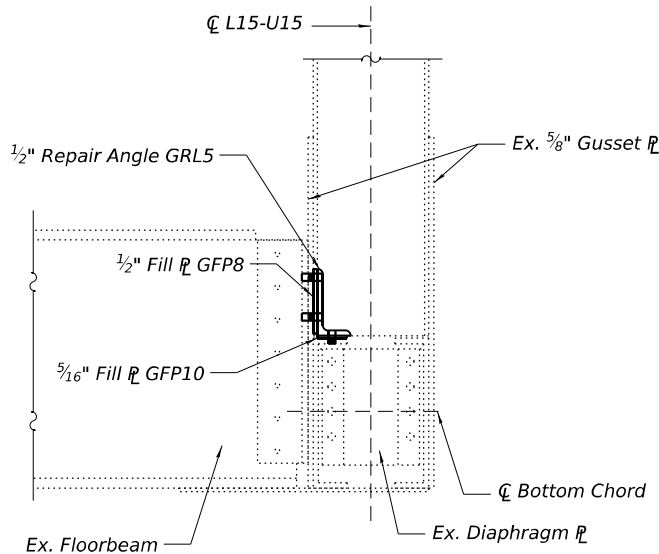
SHEET S24 OF S41 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
315	(140-B-BR)BP, BRR	FULTON/MASON	163	53

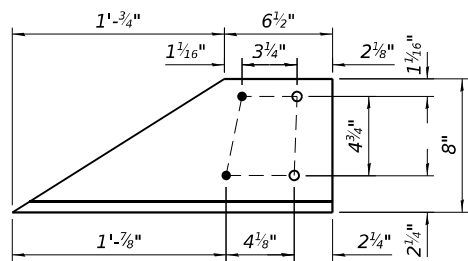
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12/2/2025 12:36:35 PM



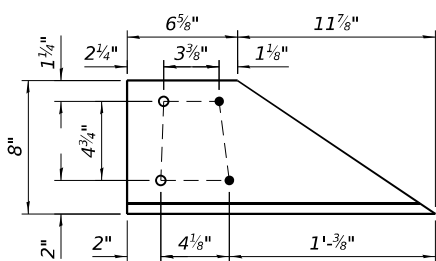
OUTSIDE ELEVATION OF INSIDE GUSSET PLATE
(Looking North)



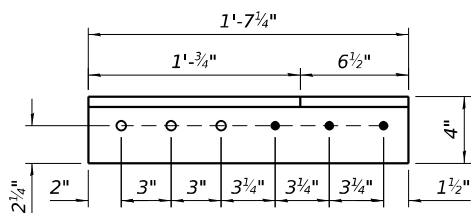
SECTION A-A



Elevation View

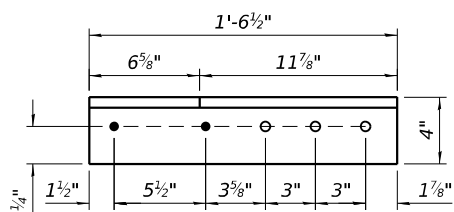


Elevation View



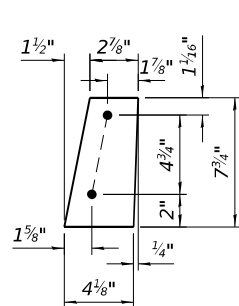
Plan View

GUSSET REPAIR ANGLE GRL5

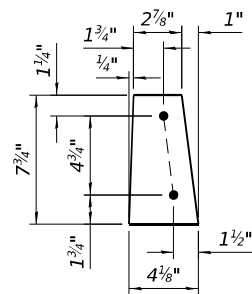


Plan View

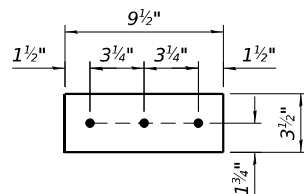
GUSSET REPAIR BENT P GRL6



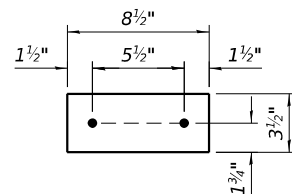
GUSSET FILL P GFP8



GUSSET FILL P GFP9



GUSSET FILL P GFP10



GUSSET FILL P GFP7

NOTES:

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 Sealant Details, see Sheet S15.
See Sheet S16 thru S18 for NBIS deficiency locations.

LEGEND

- Existing fastener to remain
- New 7/8" dia. A325 bolt in new 1 5/16" dia. hole. Field drill 1 5/16" dia. holes for 7/8" dia. high-strength bolts in existing member. Use repair plate, fill plate, or repair angle as a template.
- Replace existing fastener with new 7/8" dia. A325 bolt in existing hole. Holes in new material shall be field drilled using existing members as a template.

BILL OF MATERIAL

ITEM	UNIT	TOTAL
Structural Steel Repair	Pound	80

REPAIR LOCATIONS

NBIS Deficiency No.	Span	Joint	Truss	Inner P	Outer P
299	7	L15S	South		2

COLLINS ENGINEERS

USER NAME =	DESIGNED - ZBD	REVISED -
	CHECKED - MAH/LDB	REVISED -
PLOT SCALE =	DRAWN - ZBD	REVISED -
PLOT DATE =	CHECKED - MAH/LDB	REVISED -

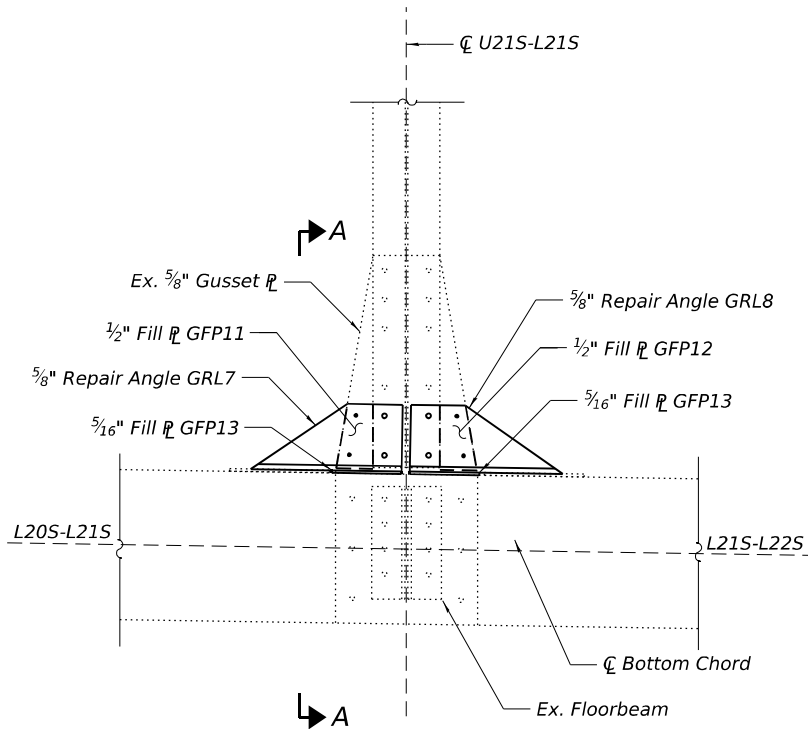
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**GUSSET PLATE REPAIRS 7
S.N. 063-0002 HAVANA BRIDGE OVER ILLINOIS RIVER**

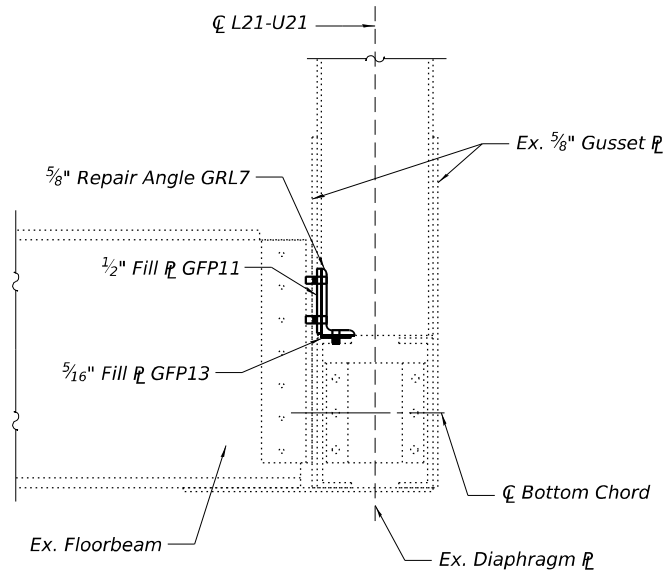
SHEET S25 OF S41 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
315	(140-B-BR)BP, BRR	FULTON/MASON	163	54
CONTRACT NO. 68F50				
		ILLINOIS	FED. AID PROJECT	

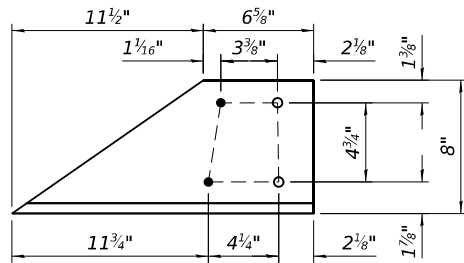
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FILE NAME: P:\10-ILL13849-DOT Cedar & Havana Phase I and II\Work\CADD\063-0002 Havana Bridge\Phase I\Sheets\0630002-68F50-026-GussetPlateRepairs.dgn
12/2/2025 12:38:57 PM



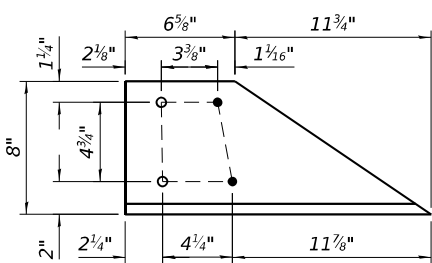
OUTSIDE ELEVATION OF INSIDE GUSSET PLATE
(Looking North)



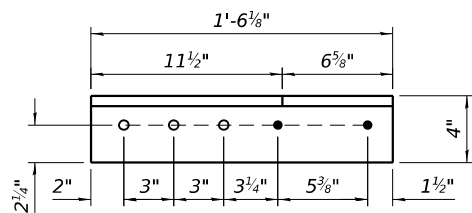
SECTION A-A



Elevation View

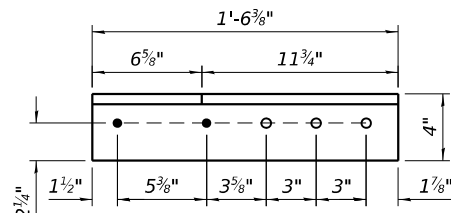


Elevation View



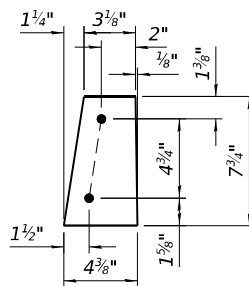
Plan View

GUSSET REPAIR ANGLE GRL7

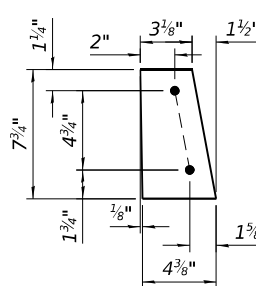


Plan View

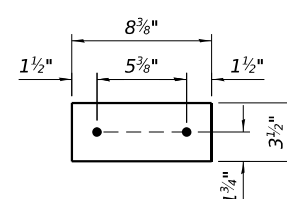
GUSSET REPAIR ANGLE GRL8



GUSSET FILL PLATE GFP11



GUSSET FILL PLATE GFP12



GUSSET FILL PLATE GFP13
(2 Required)

NOTES:

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 Sealant Details, see Sheet S15.
See Sheet S16 thru S18 for NBIS deficiency locations.

LEGEND

- Existing fastener to remain
- New 7/8" dia. A325 bolt in new 1 5/16" dia. hole. Field drill 1 5/16" dia. holes for 7/8" dia. high-strength bolts in existing member. Use repair plate, fill plate, or repair angle as a template.
- Replace existing fastener with new 7/8" dia. A325 bolt in existing hole. Holes in new material shall be field drilled using existing members as a template.

BILL OF MATERIAL

ITEM	UNIT	TOTAL
Structural Steel Repair	Pound	80

REPAIR LOCATIONS

NBIS Deficiency No.	Span	Joint	Truss	Inner PL	Outer PL
183	7	L21S	South		2

COLLINS ENGINEERS

USER NAME =	DESIGNED - ZBD	REVISED -
	CHECKED - MAH/LDB	REVISED -
PLOT SCALE =	DRAWN - ZBD	REVISED -
PLOT DATE =	CHECKED - MAH/LDB	REVISED -

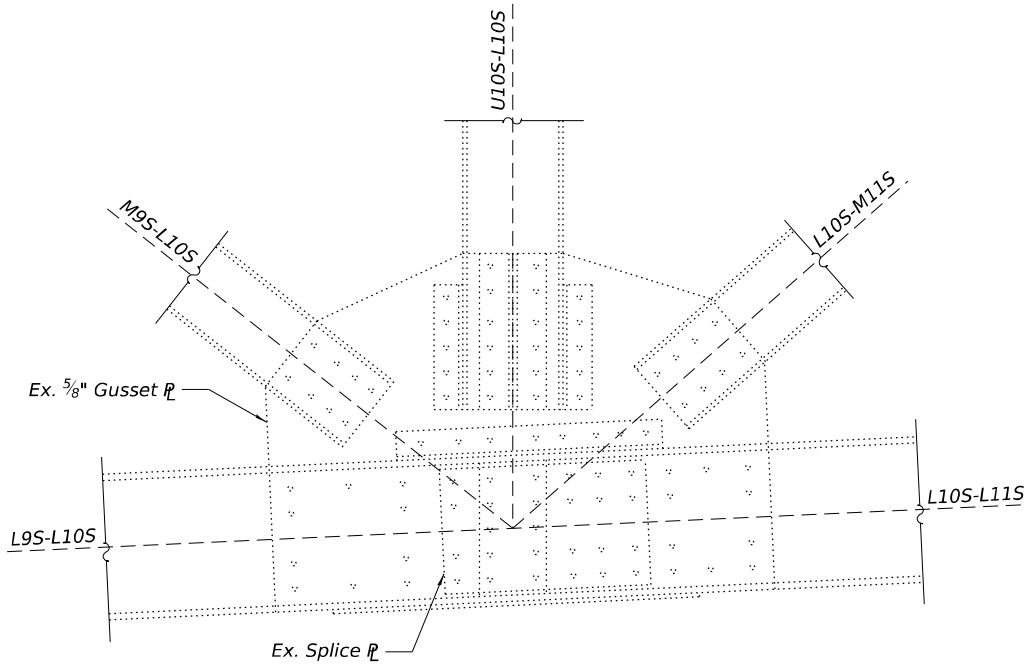
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**GUSSET PLATE REPAIRS 8
S.N. 063-0002 HAVANA BRIDGE OVER ILLINOIS RIVER**

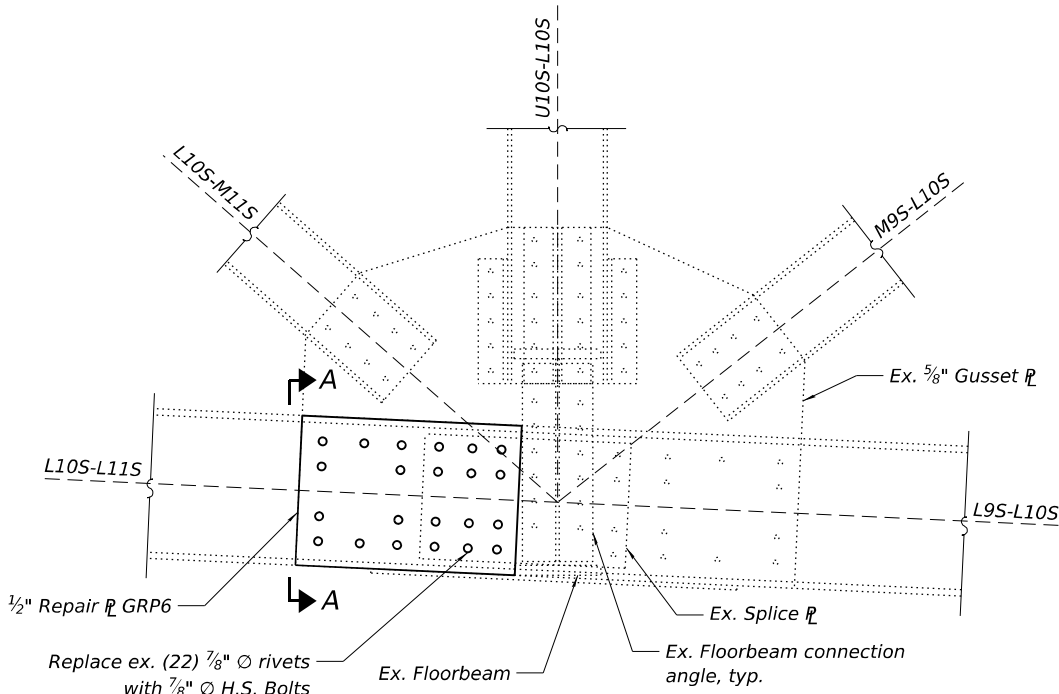
SHEET S26 OF S41 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
315	(140-B-BR)BP, BRR	FULTON/MASON	163	55
CONTRACT NO. 68F50				
ILLINOIS FED. AID PROJECT				

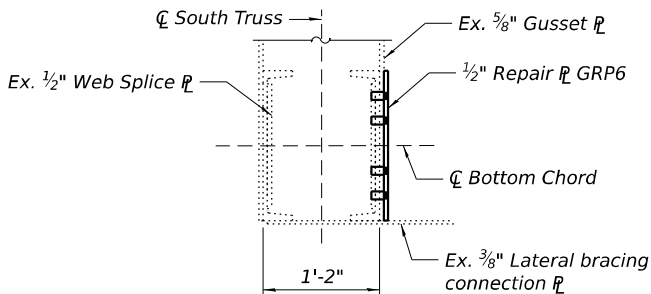
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10/1/2025 1:09:35 PM



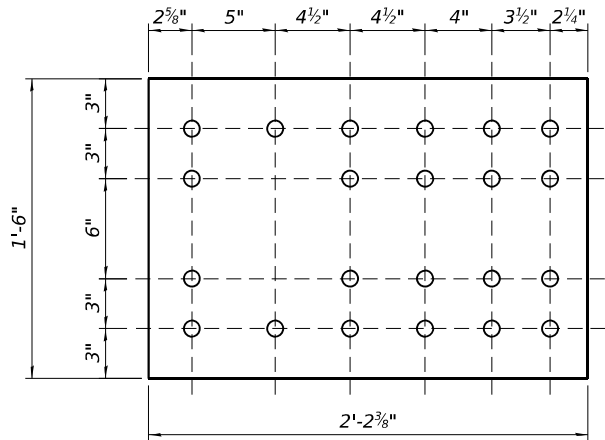
OUTSIDE ELEVATION
(Looking North)



INSIDE ELEVATION
(Looking South)



SECTION A-A



GUSSET REPAIR P GRP6

NOTES:

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 Sealant Details, see Sheet S15.
See Sheet S16 thru S18 for NBIS deficiency locations.

LEGEND

- Existing fastener to remain
- New 7/8" dia. A325 bolt in new 1 5/16" dia. hole. Field drill 1 5/16" dia. holes for 7/8" dia. high-strength bolts in existing member. Use repair plate, fill plate, or repair angle as a template.
- Replace existing fastener with new 7/8" dia. A325 bolt in existing hole. Holes in new material shall be field drilled using existing members as a template.

BILL OF MATERIAL

ITEM	UNIT	TOTAL
Structural Steel Repair	Pound	70

REPAIR LOCATIONS

NBIS Deficiency No.	Span	Joint	Truss	Inner P	Outer P
54	6	L10S	South	1	

COLLINS ENGINEERS INC.

USER NAME =	DESIGNED - ZBD	REVISED -
PLOT SCALE =	CHECKED - MAH/LDB	REVISED -
PLOT DATE =	DRAWN - ZBD	REVISED -
	CHECKED - MAH/LDB	REVISED -

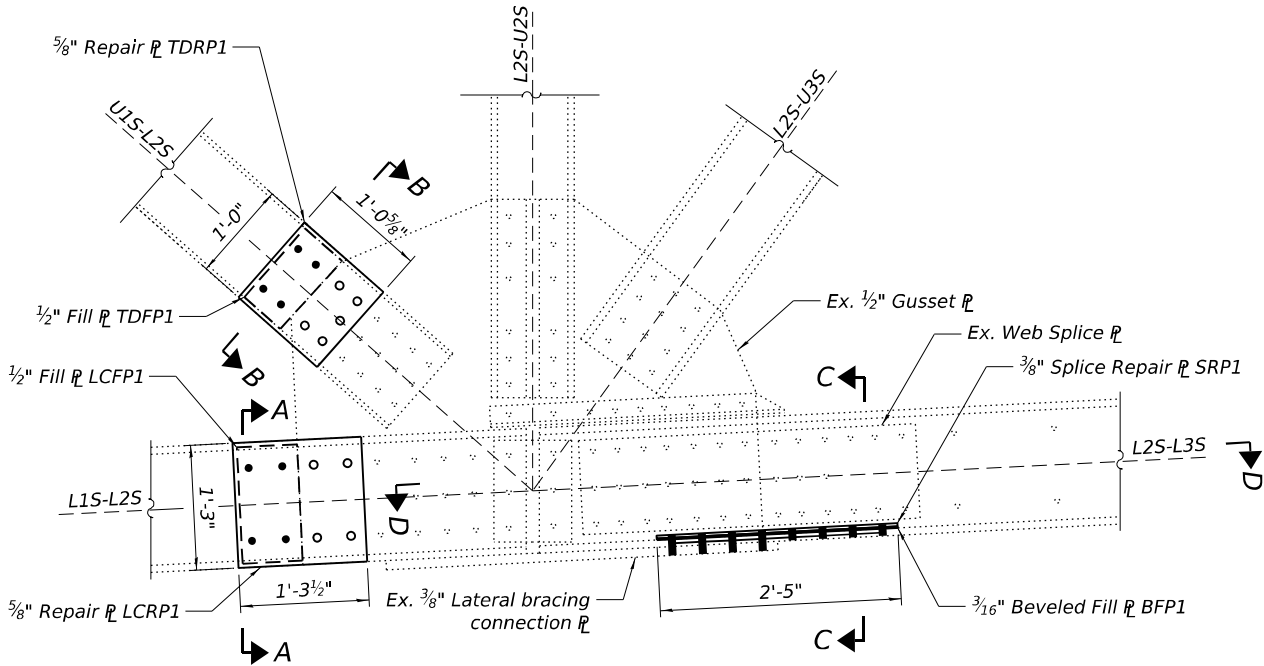
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**GUSSET PLATE REPAIRS 9
S.N. 063-0002 HAVANA BRIDGE OVER ILLINOIS RIVER**

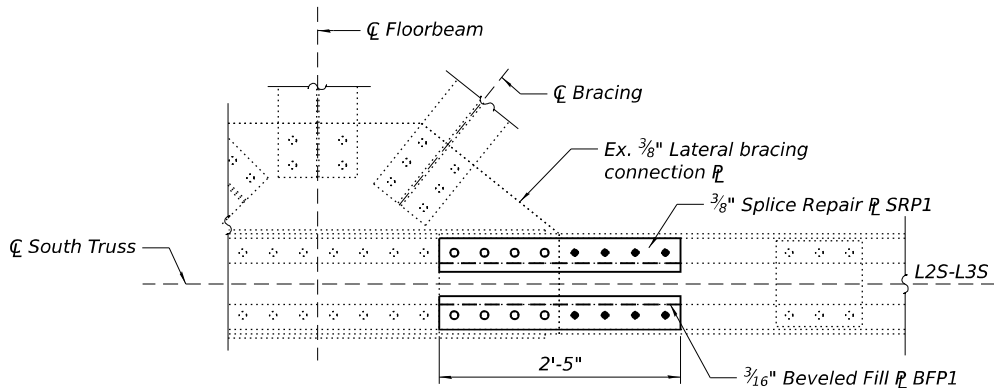
SHEET S27 OF S41 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
315	(140-B-BR)BP, BRR	FULTON/MASON	163	56
CONTRACT NO. 68F50				
ILLINOIS		FED. AID PROJECT		

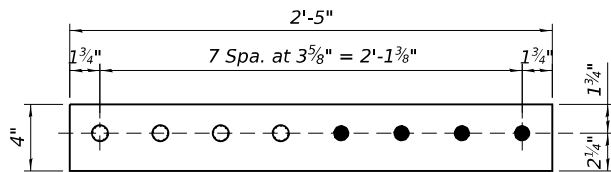
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10/1/2025 1:12:00 PM



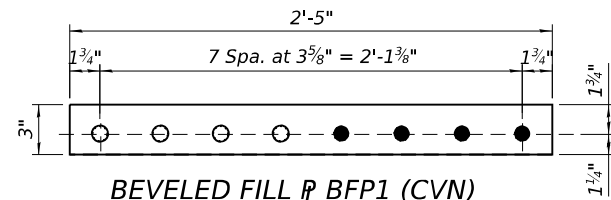
OUTSIDE ELEVATION
(Looking North)



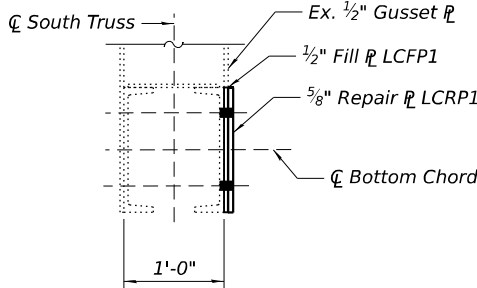
SECTION D-D



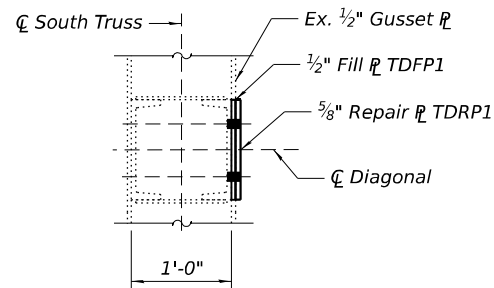
SPLICE REPAIR PL SRP1 (CVN)
(2 Required)



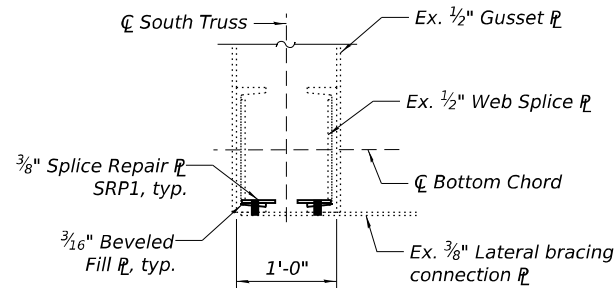
BEVELED FILL PL BFP1 (CVN)
(2 Required)



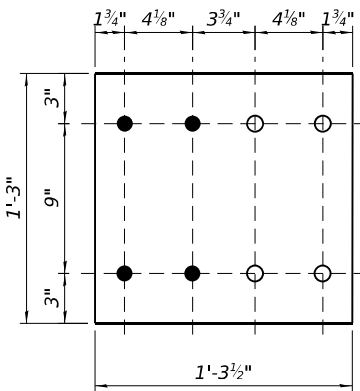
SECTION A-A



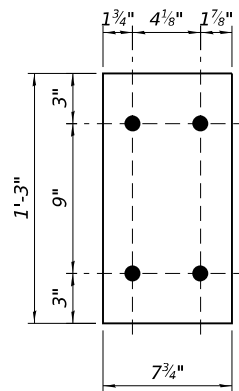
SECTION B-B



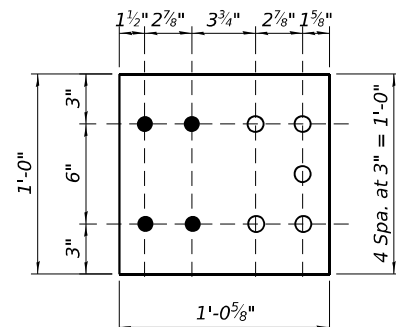
SECTION C-C



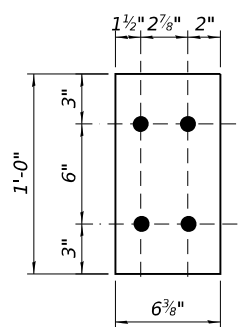
REPAIR PL LCRP1



FILL PL LCFP1



REPAIR PL TDRP1



FILL PL TDFP1

NOTES:

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 Sealant Details, see Sheet S15.
See Sheet S16 thru S18 for NBIS deficiency locations.

LEGEND

- Existing fastener to remain
- New 7/8" dia. A325 bolt in new 1 5/16" dia. hole. Field drill 1 5/16" dia. holes for 7/8" dia. high-strength bolts in existing member. Use repair plate, fill plate, or repair angle as a template.
- Replace existing fastener with new
- 7/8" dia. A325 bolt in existing hole. Holes in new material shall be field drilled using existing members as a template.

BILL OF MATERIAL

ITEM	UNIT	TOTAL
Structural Steel Repair	Pound	130

REPAIR LOCATIONS

NBIS Deficiency No.	Span	Joint	Truss	Inner PL	Outer PL
71	5	L2S	South	1	1
110	5	L2S	South		1
111	5	L2S	South		1

COLLINS ENGINEERS

USER NAME =	DESIGNED - JA	REVISED -
	CHECKED - MAH/LDB	REVISED -
PLOT SCALE =	DRAWN - JA	REVISED -
PLOT DATE =	CHECKED - MAH/LDB	REVISED -

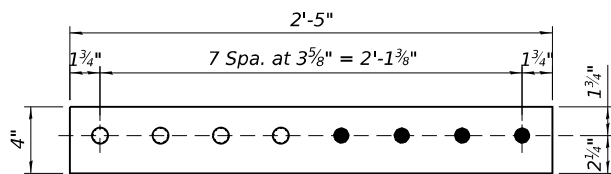
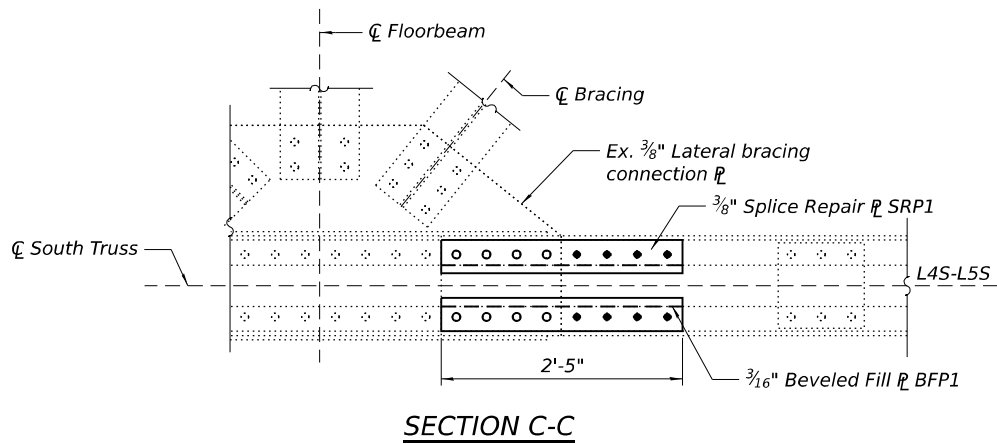
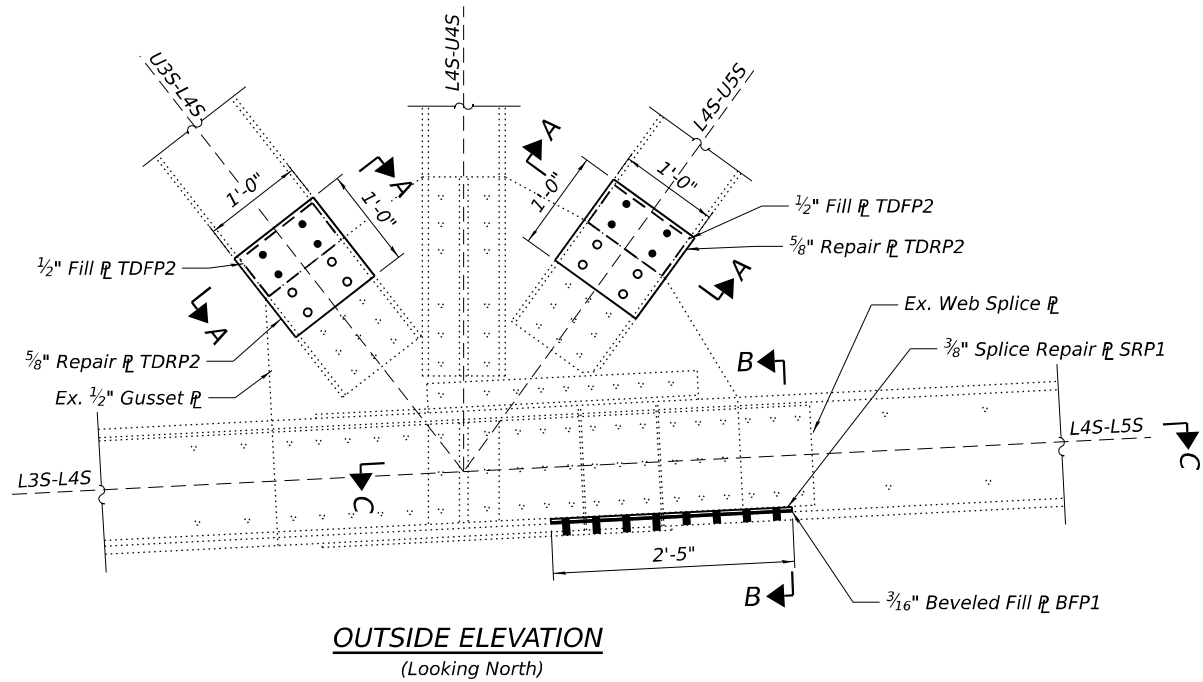
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**TRUSS MEMBER REPAIRS 1
S.N. 063-0002 HAVANA BRIDGE OVER ILLINOIS RIVER**

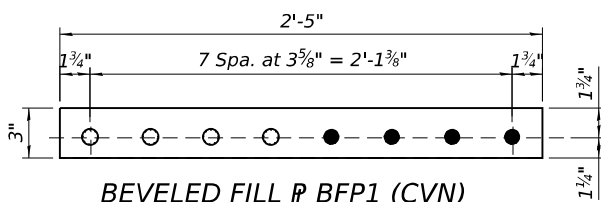
SHEET S28 OF S41 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
315	(140-B-BR)BP, BRR	FULTON/MASON	163	57
			CONTRACT NO. 68F50	
	ILLINOIS	FED. AID PROJECT		

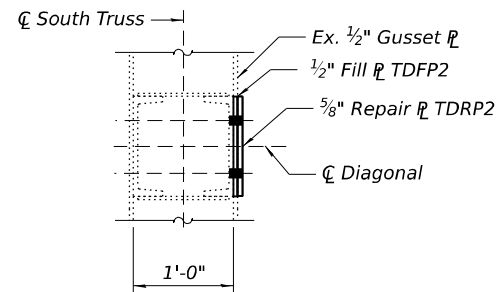
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10/1/2025 1:13:21 PM



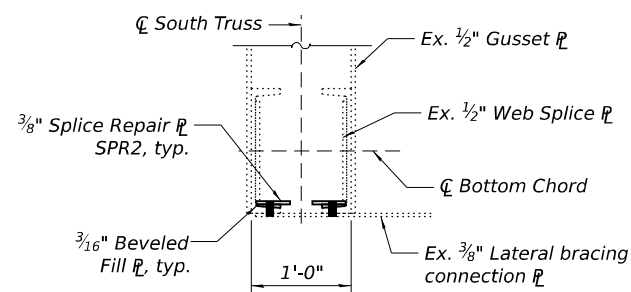
SPLICE REPAIR PL SRP1 (CVN)
(2 Required)



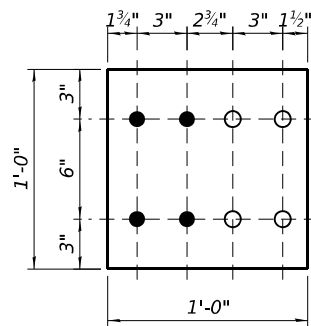
BEVELED FILL PL BFP1 (CVN)
(2 Required)



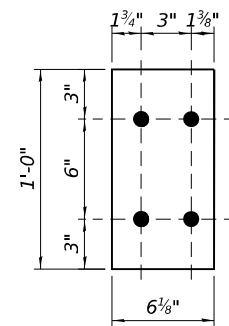
SECTION A-A



SECTION B-B



REPAIR PL TDRP2
(2 Required)



FILL PL TDFP2
(2 Required)

NOTES:

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 Sealant Details, see Sheet S15.
See Sheet S16 thru S18 for NBIS deficiency locations.

LEGEND

- Existing fastener to remain
- New 7/8" dia. A325 bolt in new 1 5/16" dia. hole. Field drill 1 5/16" dia. holes for 7/8" dia. high-strength bolts in existing member. Use repair plate, fill plate, or repair angle as a template.
- Replace existing fastener with new 7/8" dia. A325 bolt in existing hole. Holes in new material shall be field drilled using existing members as a template.

BILL OF MATERIAL

ITEM	UNIT	TOTAL
Structural Steel Repair	Pound	110

REPAIR LOCATIONS

NBIS Deficiency No.	Span	Joint	Truss	Inner PL	Outer PL
113	5	L4S	South		1
114	5	L4S	South		1
129	5	L4S	South	1	1

COLLINS ENGINEERS INC.

USER NAME =	DESIGNED - JA	REVISED -
	CHECKED - MAH/LDB	REVISED -
PLOT SCALE =	DRAWN - JA	REVISED -
PLOT DATE =	CHECKED - MAH/LDB	REVISED -

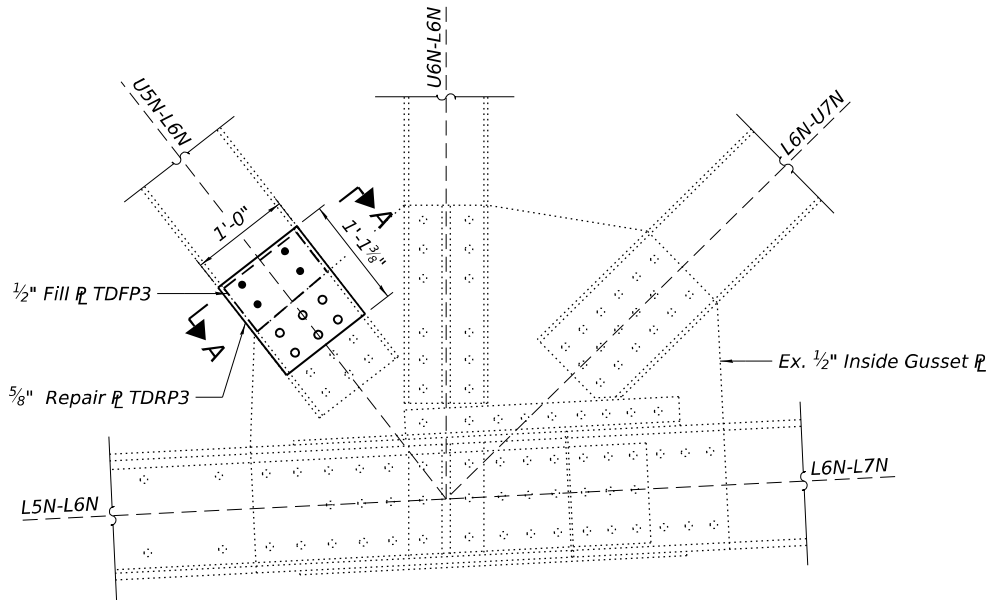
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**TRUSS MEMBER REPAIRS 2
S.N. 063-0002 HAVANA BRIDGE OVER ILLINOIS RIVER**

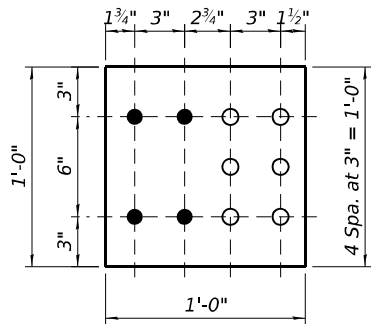
SHEET S29 OF S41 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
315	(140-B-BR)BP, BRR	FULTON/MASON	163	58
CONTRACT NO. 68F50				
ILLINOIS FED. AID PROJECT				

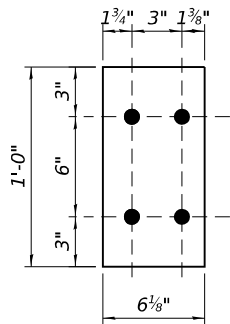
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FILE NAME: P:\10-ILL13849-DOT Cedar & Havana Phase I and II\Work\CADD\063-0002 Havana Bridge\Phase I\Sheets\0630002-68F50-030-Truss\MemberRepairs3.dgn



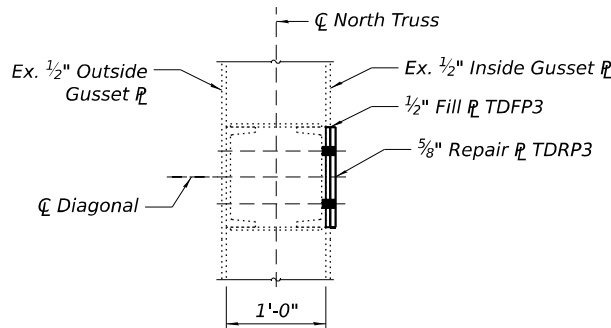
INSIDE ELEVATION
(Span 5, Looking North)



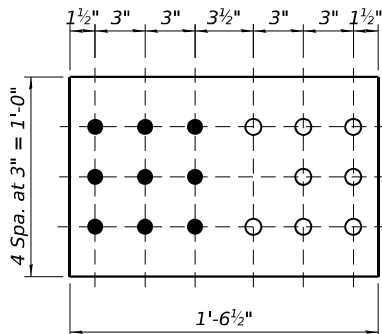
REPAIR PL TDRP3



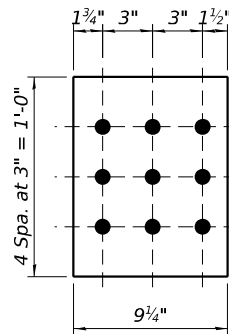
FILL PL TDFP3



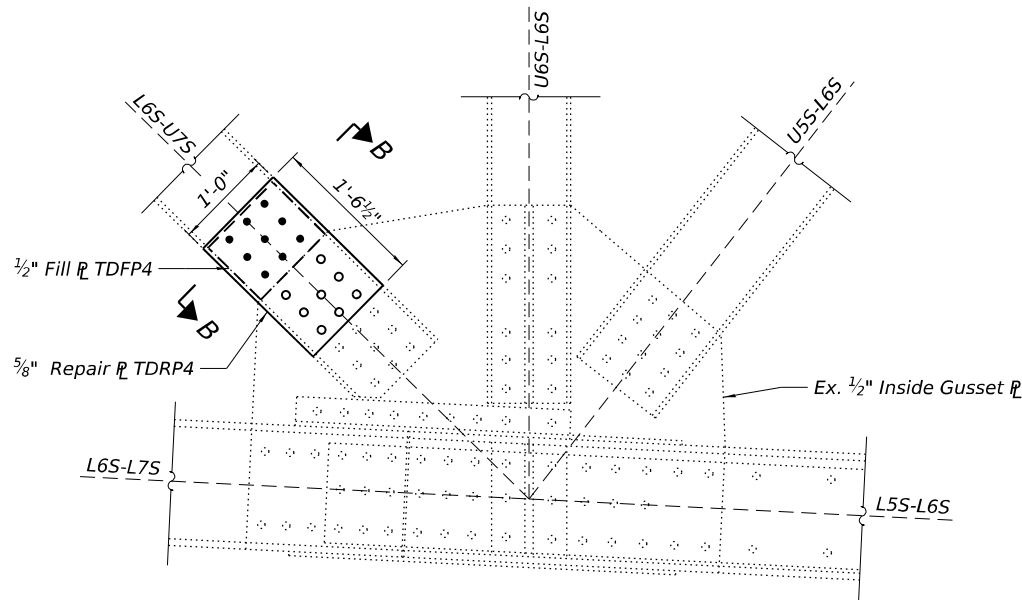
SECTION A-A



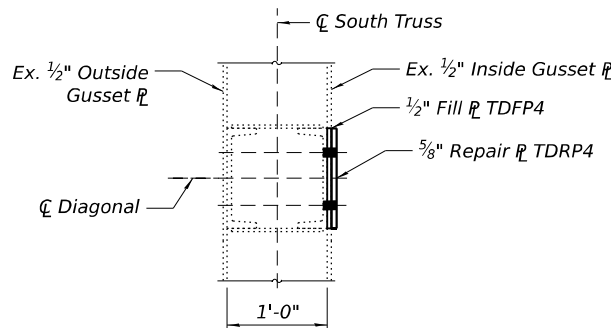
REPAIR PL TDRP4



FILL PL TDFP4



INSIDE ELEVATION
(Span 6, Looking South)



SECTION B-B

NOTES:

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 Sealant Details, see Sheet S15.
See Sheet S16 thru S18 for NBIS deficiency locations.

LEGEND

- Existing fastener to remain
- New 7/8" dia. A325 bolt in new 1 5/16" dia. hole. Field drill 1 5/16" dia. holes for 7/8" dia. high-strength bolts in existing member. Use repair plate, fill plate, or repair angle as a template.
- Replace existing fastener with new 7/8" dia. A325 bolt in existing hole. Holes in new material shall be field drilled using existing members as a template.

BILL OF MATERIAL

ITEM	UNIT	TOTAL
Structural Steel Repair	Pound	100

REPAIR LOCATIONS

NBIS Deficiency No.	Span	Joint	Truss	Inner PL	Outter PL
172	5	L6N	North		1
141	6	L6S	South		1

COLLINS
ENGINEERS

USER NAME =	DESIGNED - JA	REVISED -
	CHECKED - MAH/LDB	REVISED -
PLOT SCALE =	DRAWN - JA	REVISED -
PLOT DATE =	CHECKED - MAH/LDB	REVISED -

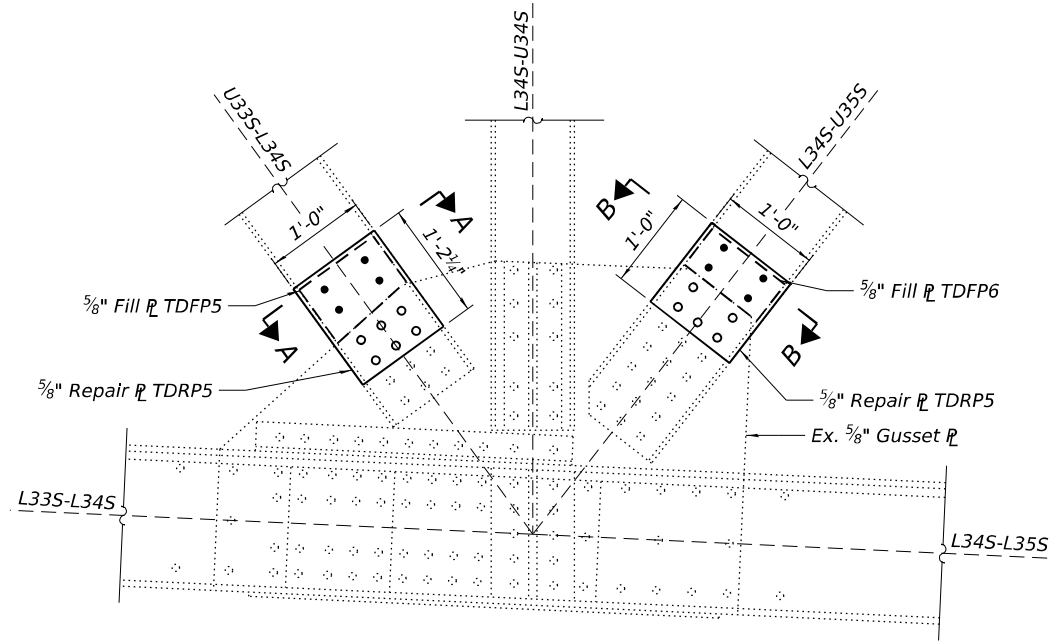
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TRUSS MEMBER REPAIRS 3
S.N. 063-0002 HAVANA BRIDGE OVER ILLINOIS RIVER

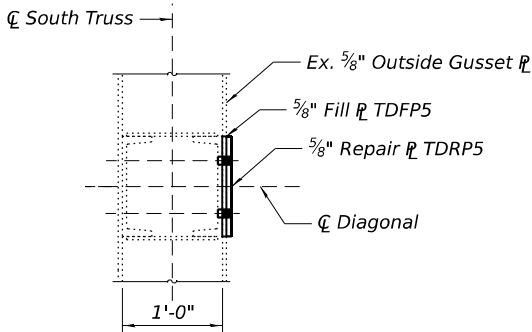
SHEET S30 OF S41 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
315	(140-B-BR)BP, BRR	FULTON/MASON	163	59
			CONTRACT NO. 68F50	
	ILLINOIS	FED. AID PROJECT		

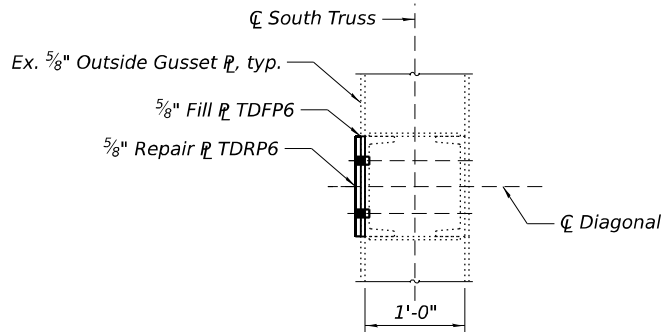
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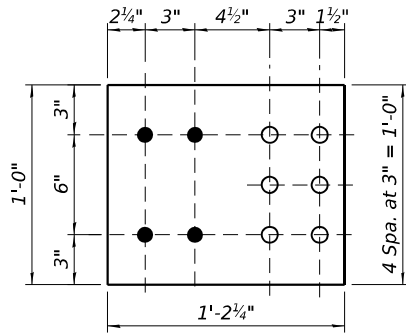
OUTSIDE ELEVATION
(Looking North)



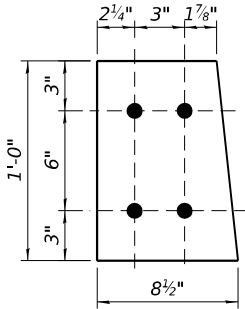
SECTION A-A



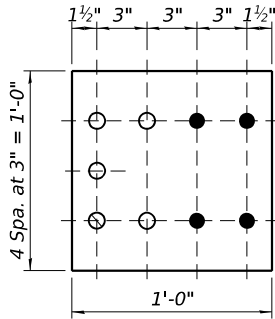
SECTION B-B



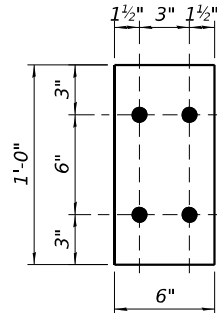
REPAIR PL TDRP5



FILL PL TDFP5



REPAIR PL TDRP6



FILL PL TDFP6

NOTES:

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 Sealant Details, see Sheet S15.
See Sheet S16 thru S18 for NBIS deficiency locations.

LEGEND

- Existing fastener to remain
- New 7/8" dia. A325 bolt in new 1 5/16" dia. hole. Field drill 1 5/16" dia. holes for 7/8" dia. high-strength bolts in existing member. Use repair plate, fill plate, or repair angle as a template.
- Replace existing fastener with new 7/8" dia. A325 bolt in existing hole. Holes in new material shall be field drilled using existing members as a template.

BILL OF MATERIAL

ITEM	UNIT	TOTAL
Structural Steel Repair	Pound	90

REPAIR LOCATIONS

NBIS Deficiency No.	Span	Joint	Truss	Inner PL	Outter PL
189	8	L34S	South		1
190	8	L34S	South		1

COLLINS ENGINEERS INC.

USER NAME =	DESIGNED - JA	REVISED -
	CHECKED - MAH/LDB	REVISED -
PLOT SCALE =	DRAWN - JA	REVISED -
PLOT DATE =	CHECKED - MAH/LDB	REVISED -

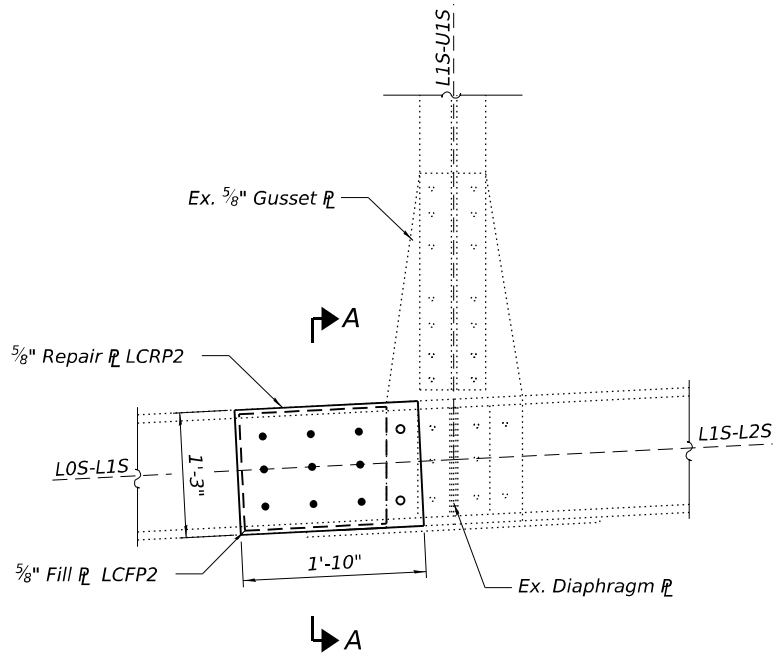
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**TRUSS MEMBER REPAIRS 4
S.N. 063-0002 HAVANA BRIDGE OVER ILLINOIS RIVER**

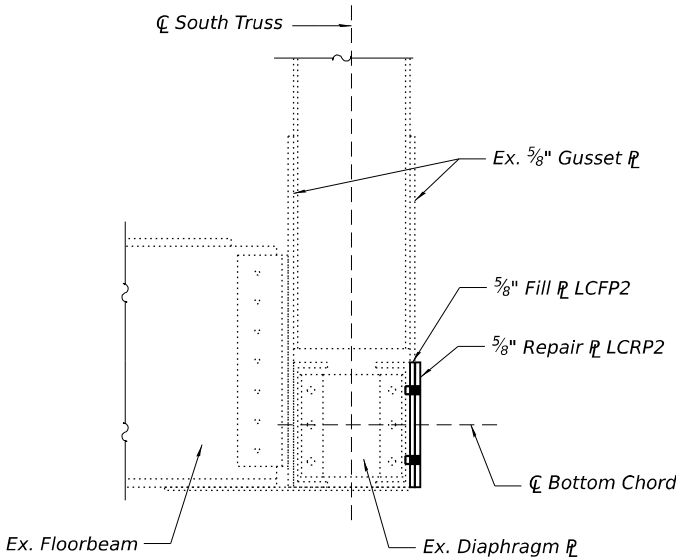
SHEET S31 OF S41 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
315	(140-B-BR)BP, BRR	FULTON/MASON	163	60

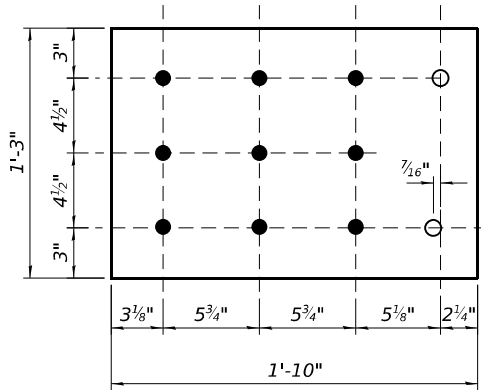
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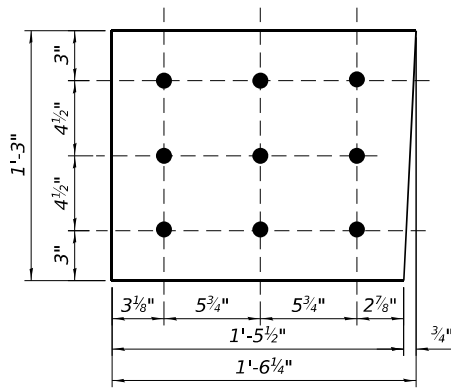
OUTSIDE ELEVATION
(Looking North)



SECTION A-A



REPAIR PL LCRP2



FILL PL LCFP2

NOTES:

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 Sealant Details, see Sheet S15.
See Sheet S16 thru S18 for NBIS deficiency locations.

LEGEND

- Existing fastener to remain
- New 7/8" dia. A325 bolt in new 1 5/16" dia. hole. Field drill 1 5/16" dia. holes for 7/8" dia. high-strength bolts in existing member. Use repair plate, fill plate, or repair angle as a template.
- Replace existing fastener with new 7/8" dia. A325 bolt in existing hole. Holes in new material shall be field drilled using existing members as a template.

BILL OF MATERIAL

ITEM	UNIT	TOTAL
Structural Steel Repair	Pound	110

REPAIR LOCATIONS

NBIS Deficiency No.	Span	Joint	Truss	Inner PL	Outter PL
69	5	L1S	South		1

COLLINS ENGINEERS INC.

USER NAME =	DESIGNED - JA	REVISED -
	CHECKED - MAH/LDB	REVISED -
PLOT SCALE =	DRAWN - JA	REVISED -
PLOT DATE =	CHECKED - MAH/LDB	REVISED -

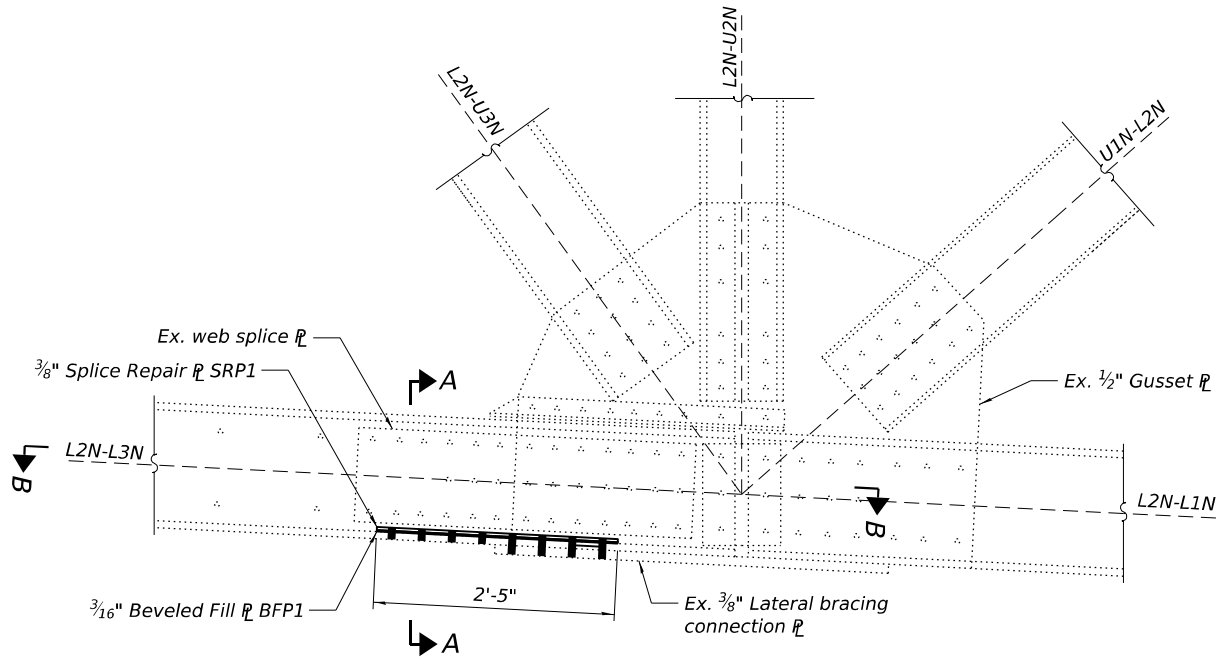
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**TRUSS MEMBER REPAIRS 5
S.N. 063-0002 HAVANA BRIDGE OVER ILLINOIS RIVER**

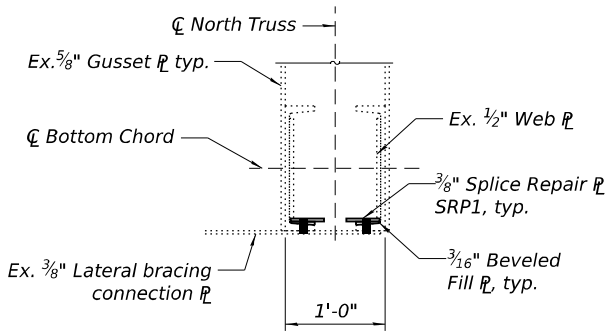
SHEET S32 OF S41 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
315	(140-B-BR)BP, BRR	FULTON/MASON	163	61
				CONTRACT NO. 68F50
		ILLINOIS	FED. AID PROJECT	

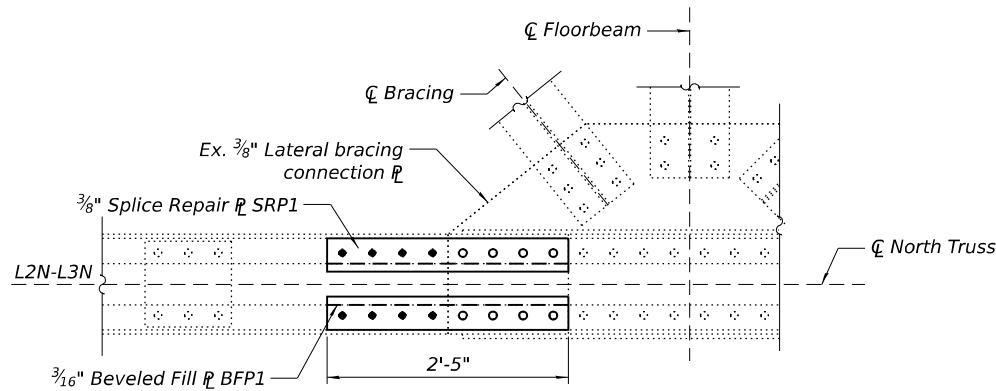
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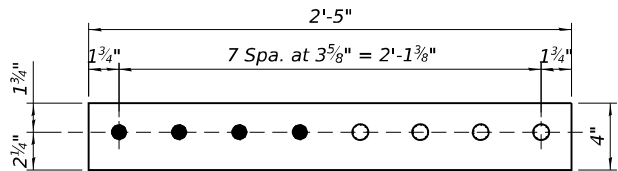
OUTSIDE ELEVATION
(Looking South)



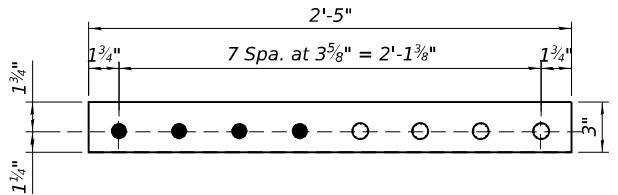
SECTION A-A



SECTION B-B



SPLICE REPAIR P SRP1 (CVN)
(2 Required)



BEVELED FILL P BFP1 (CVN)
(2 Required)

NOTES:

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 Sealant Details, see Sheet S15.
See Sheet S16 thru S18 for NBIS deficiency locations.

LEGEND

- Existing fastener to remain
- New 7/8" dia. A325 bolt in new 1 5/16" dia. hole. Field drill 1 5/16" dia. holes for 7/8" dia. high-strength bolts in existing member. Use repair plate, fill plate, or repair angle as a template.
- Replace existing fastener with new 7/8" dia. A325 bolt in existing hole. Holes in new material shall be field drilled using existing members as a template.

BILL OF MATERIAL

ITEM	UNIT	TOTAL
Structural Steel Repair	Pound	50

REPAIR LOCATIONS

NBIS Deficiency No.	Span	Joint	Truss	Inner P	Outer P
70	5	L2N	North	1	1

COLLINS ENGINEERS

USER NAME =	DESIGNED - JA	REVISED -
	CHECKED - MAH/LDB	REVISED -
PLOT SCALE =	DRAWN - JA	REVISED -
PLOT DATE =	CHECKED - MAH/LDB	REVISED -

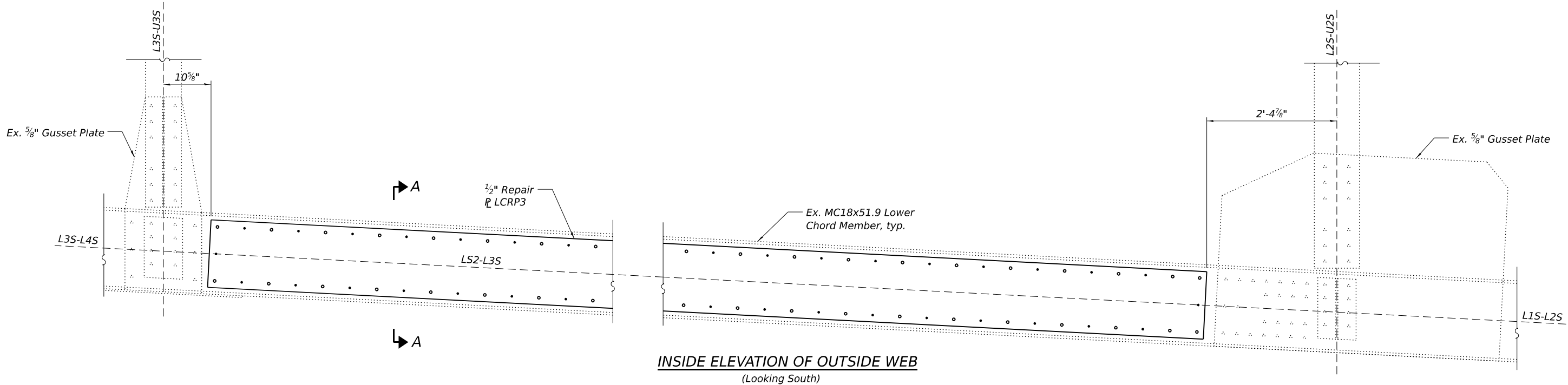
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**TRUSS MEMBER REPAIRS 6
S.N. 063-0002 HAVANA BRIDGE OVER ILLINOIS RIVER**

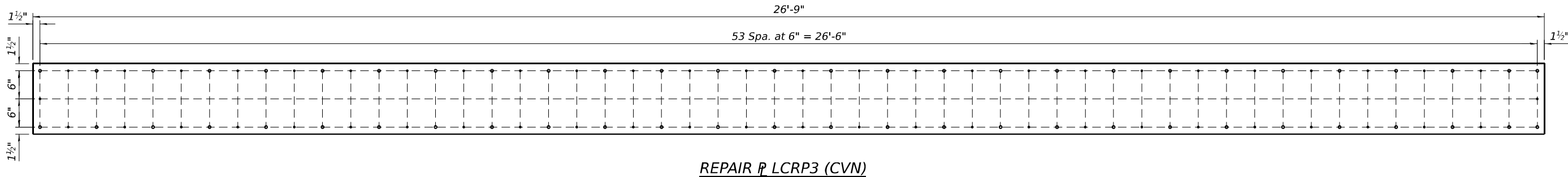
SHEET S33 OF S41 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
315	(140-B-BR)BP, BRR	FULTON/MASON	163	62
				CONTRACT NO. 68F50
		ILLINOIS	FED. AID PROJECT	

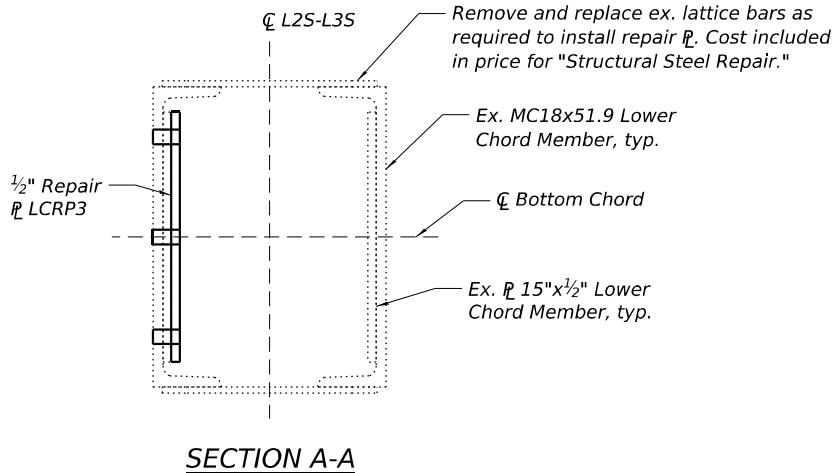
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INSIDE ELEVATION OF OUTSIDE WEB
(Looking South)



REPAIR LCRP3 (CVN)



SECTION A-A

NOTES:

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 Sealant Details, see Sheet S15.
See Sheet S16 thru S18 for NBIS deficiency locations.

LEGEND

- Existing fastener to remain
- New 7/8" dia. A325 bolt in new 1 5/16" dia. hole. Field drill 1 5/16" dia. holes for 7/8" dia. high-strength bolts in existing member. Use repair plate, fill plate, or repair angle as a template.
- Replace existing fastener with new 7/8" dia. A325 bolt in existing hole. Holes in new material shall be field drilled using existing members as a template.

BILL OF MATERIAL

ITEM	UNIT	TOTAL
Structural Steel Repair	Pound	690

REPAIR LOCATIONS

NBIS Deficiency No.	Span	Joint	Truss	Inner L	Outer L
50	6	-	South		1

COLLINS ENGINEERS INC.

USER NAME =	DESIGNED - ZBD	REVISED -
	CHECKED - MAH/LDB	REVISED -
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PLOT DATE =	CHECKED - MAH/LDB	REVISED -

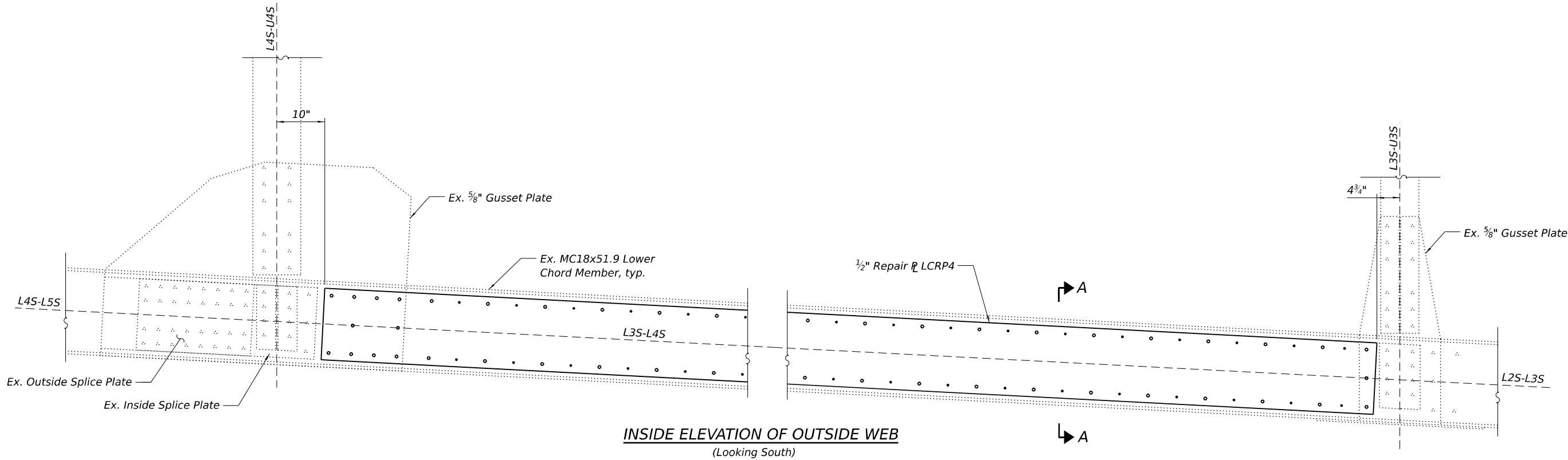
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**TRUSS MEMBER REPAIRS 7
S.N. 063-0002 HAVANA BRIDGE OVER ILLINOIS RIVER**

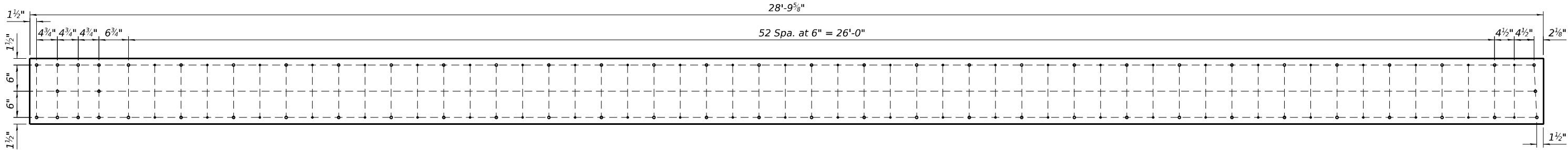
SHEET S34 OF S41 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
315	(140-B-BR)BP, BR	FULTON/MASON	163	63
CONTRACT NO. 68F50				
ILLINOIS FED. AID PROJECT				

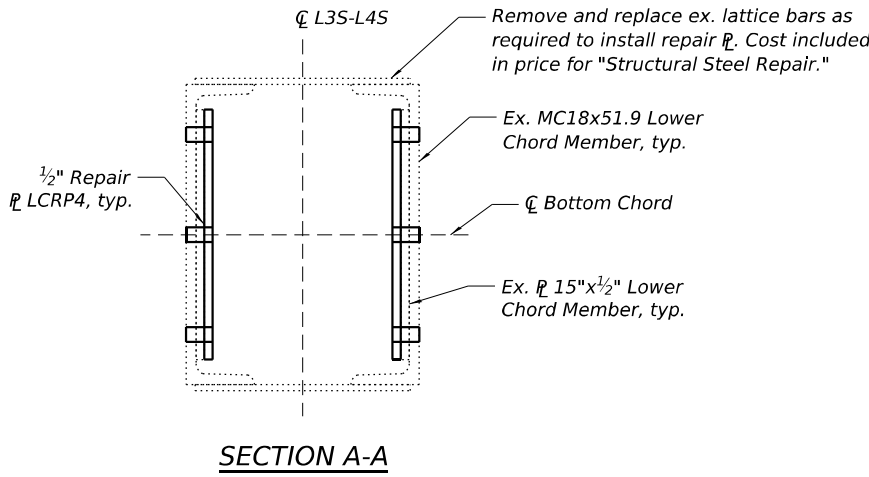
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INSIDE ELEVATION OF OUTSIDE WEB
(Looking South)



REPAIR CHANNEL LCRP4 (CVN)
(2 Required)



SECTION A-A

NOTES:

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 Sealant Details, see Sheet S15.
See Sheet S16 thru S18 for NBIS deficiency locations.

LEGEND

- Existing fastener to remain
- New 7/8" dia. A325 bolt in new 1 5/16" dia. hole. Field drill 1 5/16" dia. holes for 7/8" dia. high-strength bolts in existing member. Use repair plate, fill plate, or repair angle as a template.
- Replace existing fastener with new 7/8" dia. A325 bolt in existing hole. Holes in new material shall be field drilled using existing members as a template.

BILL OF MATERIAL

ITEM	UNIT	TOTAL
Structural Steel Repair	Pound	1,480

REPAIR LOCATIONS

NBIS Deficiency No.	Span	Joint	Truss	Inner L	Outer L
7	6	-	South	1	1

COLLINS ENGINEERS

USER NAME =	DESIGNED - ZBD	REVISED -
	CHECKED - MAH/LDB	REVISED -
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PLOT DATE =	CHECKED - MAH/LDB	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

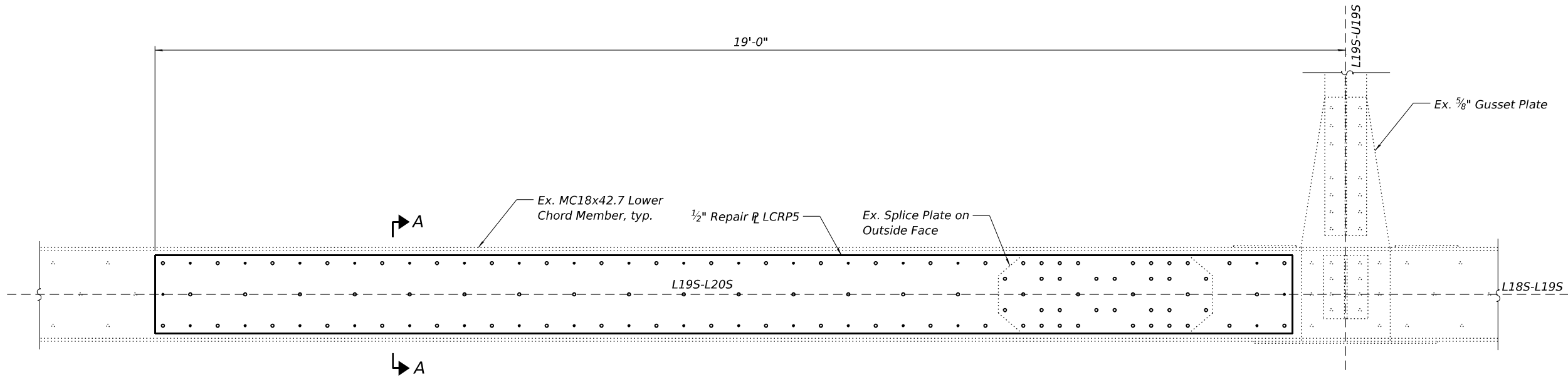
**TRUSS MEMBER REPAIRS 8
S.N. 063-0002 HAVANA BRIDGE OVER ILLINOIS RIVER**

SHEET S35 OF S41 SHEETS

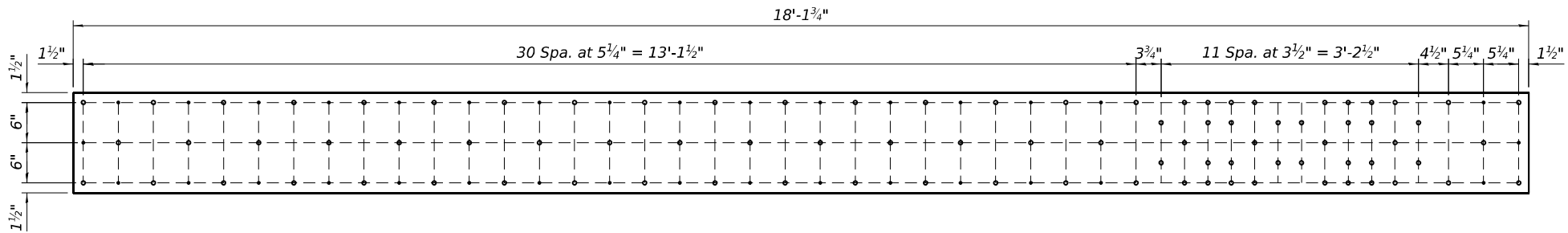
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
315	(140-B-BR)BP, BR	FULTON/MASON	163	64

ILLINOIS FED. AID PROJECT

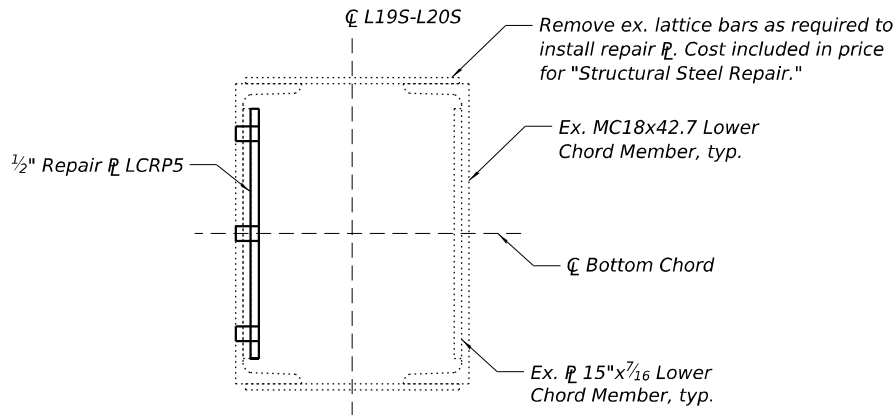
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INSIDE ELEVATION OF OUTSIDE GUSSET PLATE
(Looking South)



REPAIR PL LCRP5 (CVN)



SECTION A-A

NOTES:

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 Sealant Details, see Sheet S15.
See Sheet S16 thru S18 for NBIS deficiency locations.

LEGEND

- Existing fastener to remain
- New 7/8" dia. A325 bolt in new 1 5/16" dia. hole. Field drill 1 5/16" dia. holes for 7/8" dia. high-strength bolts in existing member. Use repair plate, fill plate, or repair angle as a template.
- Replace existing fastener with new 7/8" dia. A325 bolt in existing hole. Holes in new material shall be field drilled using existing members as a template.

BILL OF MATERIAL

ITEM	UNIT	TOTAL
Structural Steel Repair	Pound	470

REPAIR LOCATIONS

NBIS Deficiency No.	Span	Joint	Truss	Inner PL	Outer PL
93	7	-	South		1

COLLINS ENGINEERS INC.

USER NAME =	DESIGNED - ZBD	REVISED -
	CHECKED - MAH/LDB	REVISED -
PLOT SCALE =	DRAWN - ZBD	REVISED -
PLOT DATE =	CHECKED - MAH/LDB	REVISED -

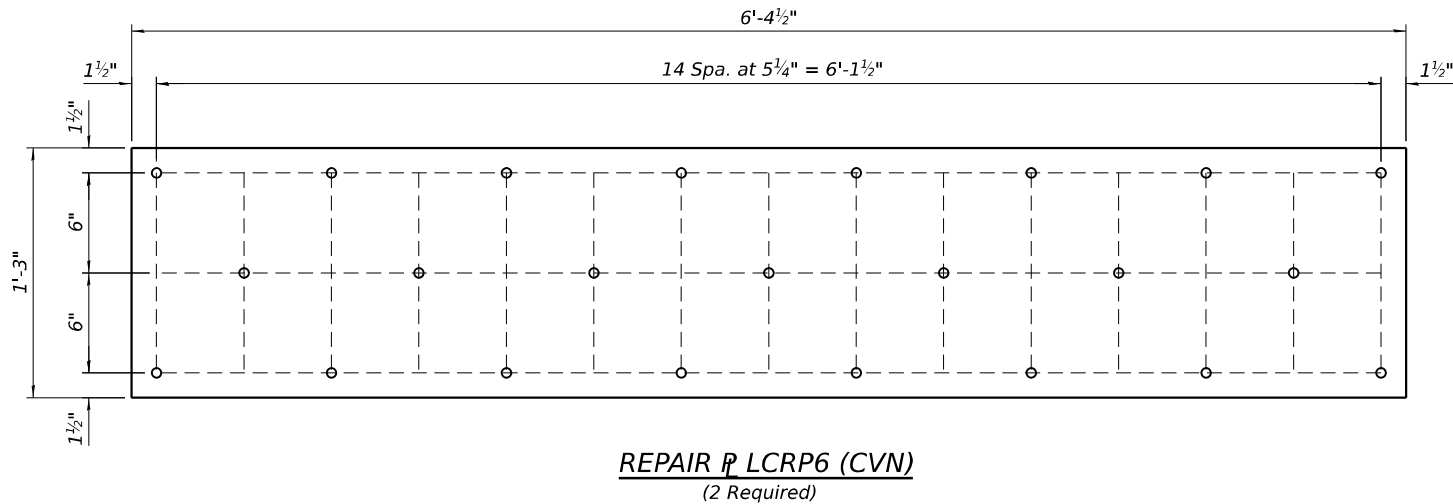
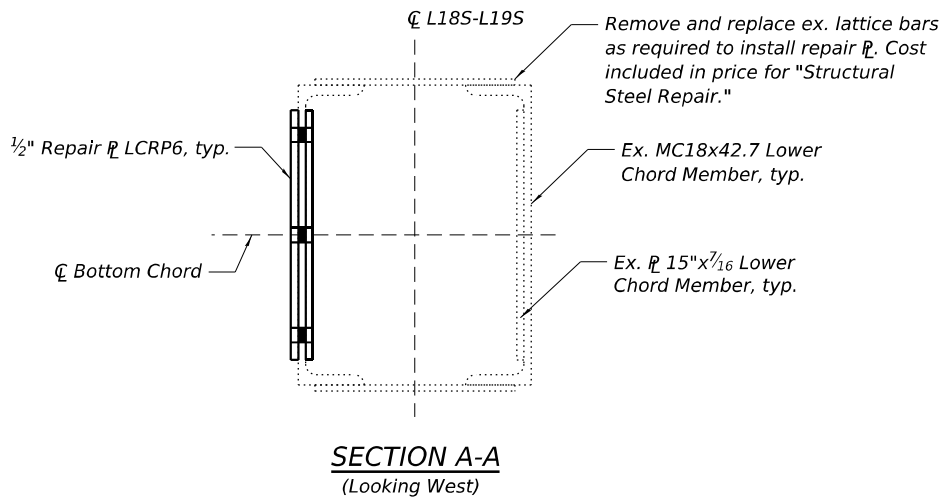
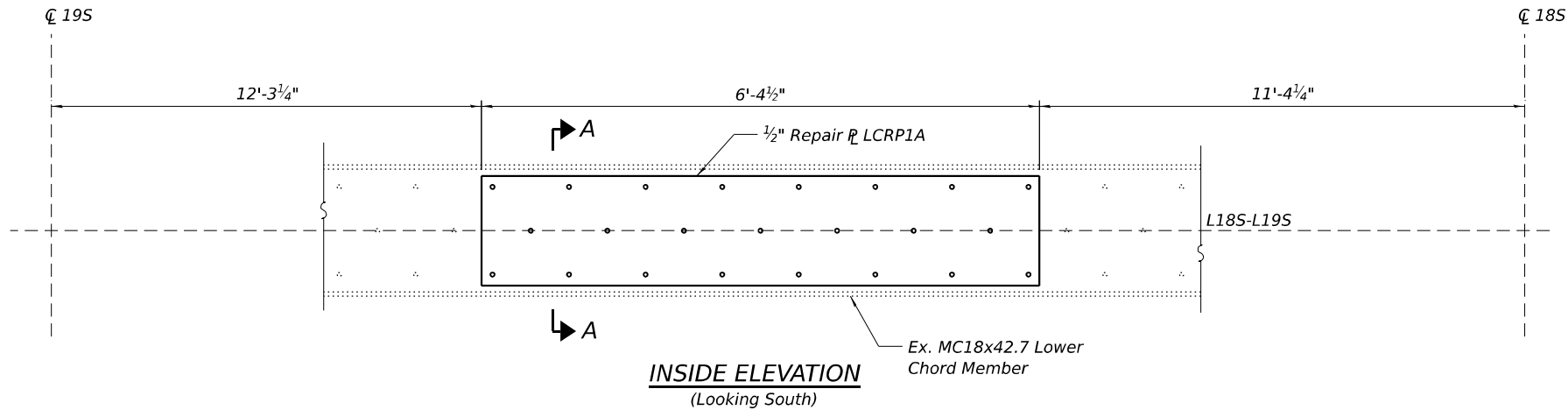
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**TRUSS MEMBER REPAIRS 9
S.N. 063-0002 HAVANA BRIDGE OVER ILLINOIS RIVER**

SHEET S36 OF S41 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
315	(140-B-BR)BP, BRR	FULTON/MASON	163	65
				CONTRACT NO. 68F50
		ILLINOIS	FED. AID PROJECT	

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NOTES:

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 Sealant Details, see Sheet S15.
See Sheet S16 thru S18 for NBIS deficiency locations.

LEGEND

- Existing fastener to remain
- New 7/8" dia. A325 bolt in new 1 5/16" dia. hole. Field drill 1 5/16" dia. holes for 7/8" dia. high-strength bolts in existing member. Use repair plate, fill plate, or repair angle as a template.
- Replace existing fastener with new 7/8" dia. A325 bolt in existing hole. Holes in new material shall be field drilled using existing members as a template.

BILL OF MATERIAL

ITEM	UNIT	TOTAL
Structural Steel Repair	Pound	330

REPAIR LOCATIONS

NBIS Deficiency No.	Span	Joint	Truss	Inner PL	Outter PL
152	7	-	South		2

COLLINS
ENGINEERS
INC.

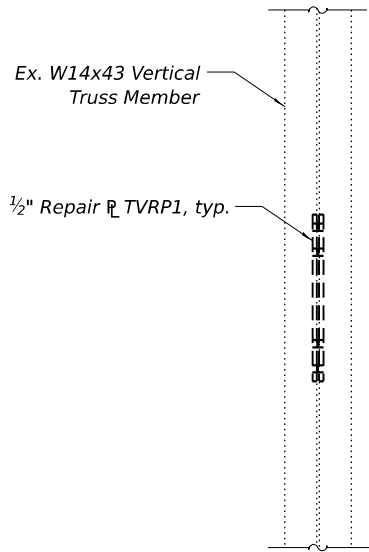
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PLOT DATE =	CHECKED - MAH/LDB	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

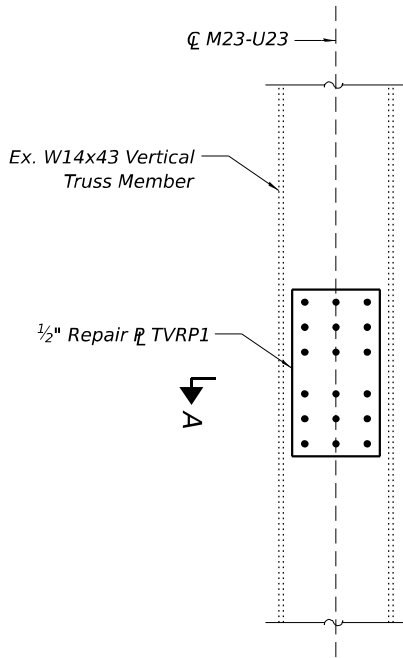
TRUSS MEMBER REPAIRS 10
S.N. 063-0002 HAVANA BRIDGE OVER ILLINOIS RIVER

SHEET S37 OF S41 SHEETS

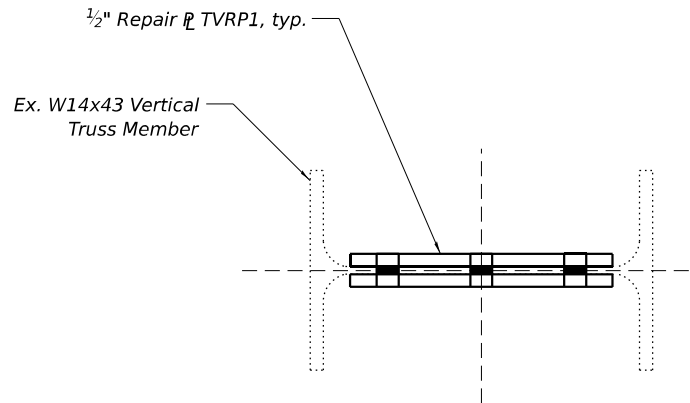
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				CONTRACT NO. 68F50
		ILLINOIS	FED. AID PROJECT	



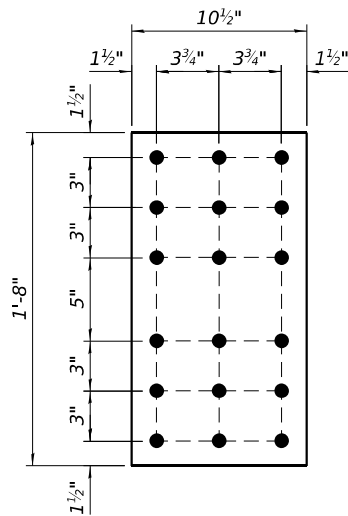
OUTSIDE ELEVATION



INSIDE ELEVATION



SECTION A-A



REPAIR PL TVRP1
(2 Required)

NOTES:

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 Sealant Details, see Sheet S15.
See Sheet S16 thru S18 for NBIS deficiency locations.

LEGEND

- Existing fastener to remain
- New 7/8" dia. A325 bolt in new 1 5/16" dia. hole. Field drill 1 5/16" dia. holes for 7/8" dia. high-strength bolts in existing member. Use repair plate, fill plate, or repair angle as a template.
- Replace existing fastener with new 7/8" dia. A325 bolt in existing hole. Holes in new material shall be field drilled using existing members as a template.

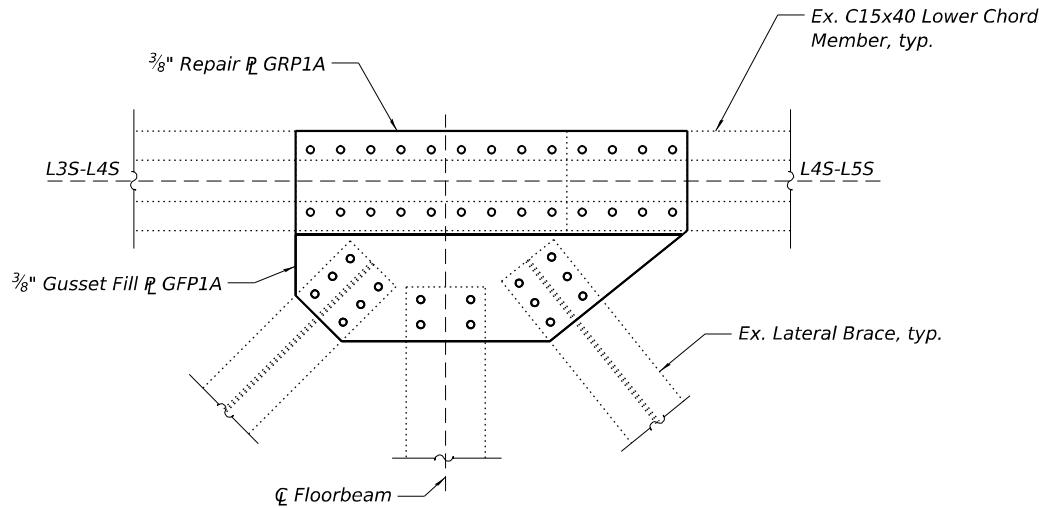
BILL OF MATERIAL

ITEM	UNIT	TOTAL
Structural Steel Repair	Pound	720

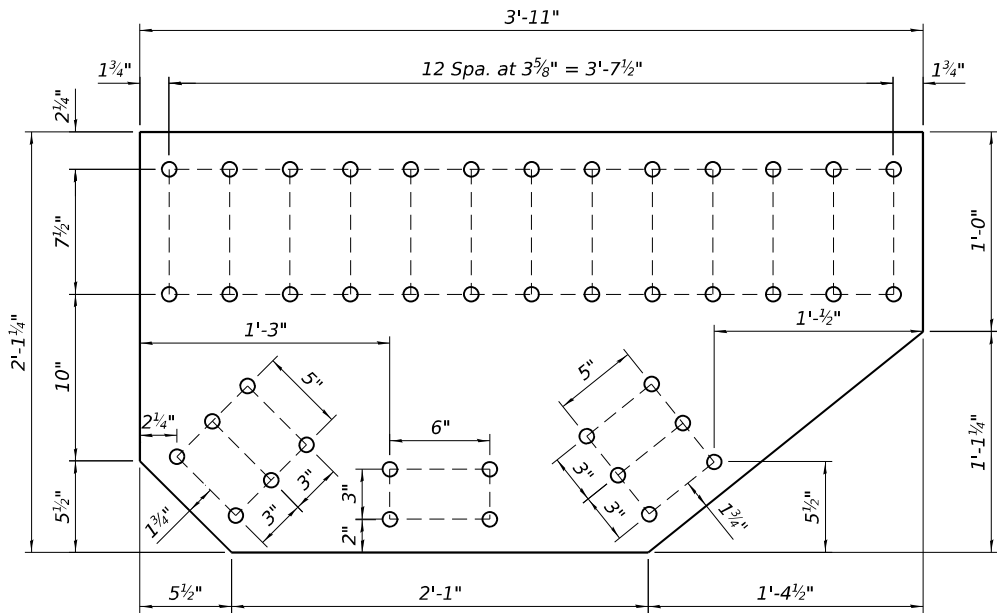
REPAIR LOCATIONS

NBIS Deficiency No.	Span	Joint	Truss	Inner PL	Outer PL
17	7	23S	South	1	1

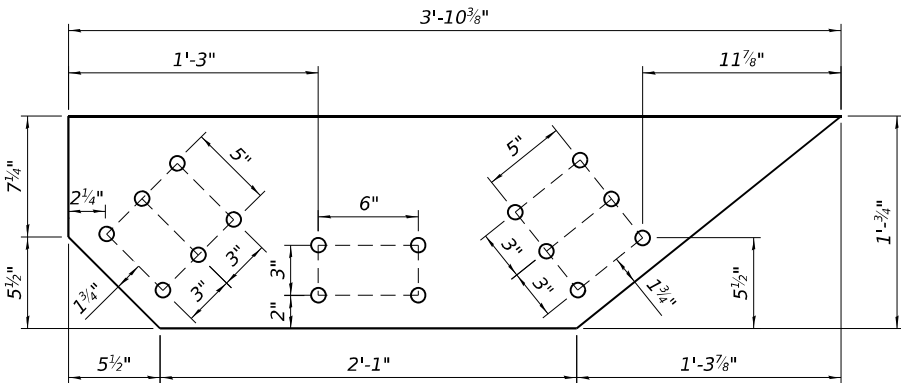
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BOTTOM LATERAL BRACING CONNECTION P - PLAN
(NBIS Item 115)



REPAIR P LGRP (CVN)



FILL P LGFP (CVN)

NOTES:

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 Sealant Details, see Sheet S15.
See Sheet S16 thru S18 for NBIS deficiency locations.

LEGEND

- Existing fastener to remain
- New 7/8" dia. A325 bolt in new 1 5/16" dia. hole. Field drill 1 5/16" dia. holes for 7/8" dia. high-strength bolts in existing member. Use repair plate, fill plate, or repair angle as a template.
- Replace existing fastener with new 7/8" dia. A325 bolt in existing hole. Holes in new material shall be field drilled using existing members as a template.

BILL OF MATERIAL

ITEM	UNIT	TOTAL
Structural Steel Repair	Pound	1,970
Structural Steel Removal	Pound	1,360

REPAIR LOCATIONS

NBIS Deficiency No.	Span	Joint	Truss
115	5	L4S	South

COLLINS ENGINEERS

USER NAME =	DESIGNED - JA	REVISED -
	CHECKED - MAH/LDB	REVISED -
PLOT SCALE =	DRAWN - JA	REVISED -
PLOT DATE =	CHECKED - MAH/LDB	REVISED -

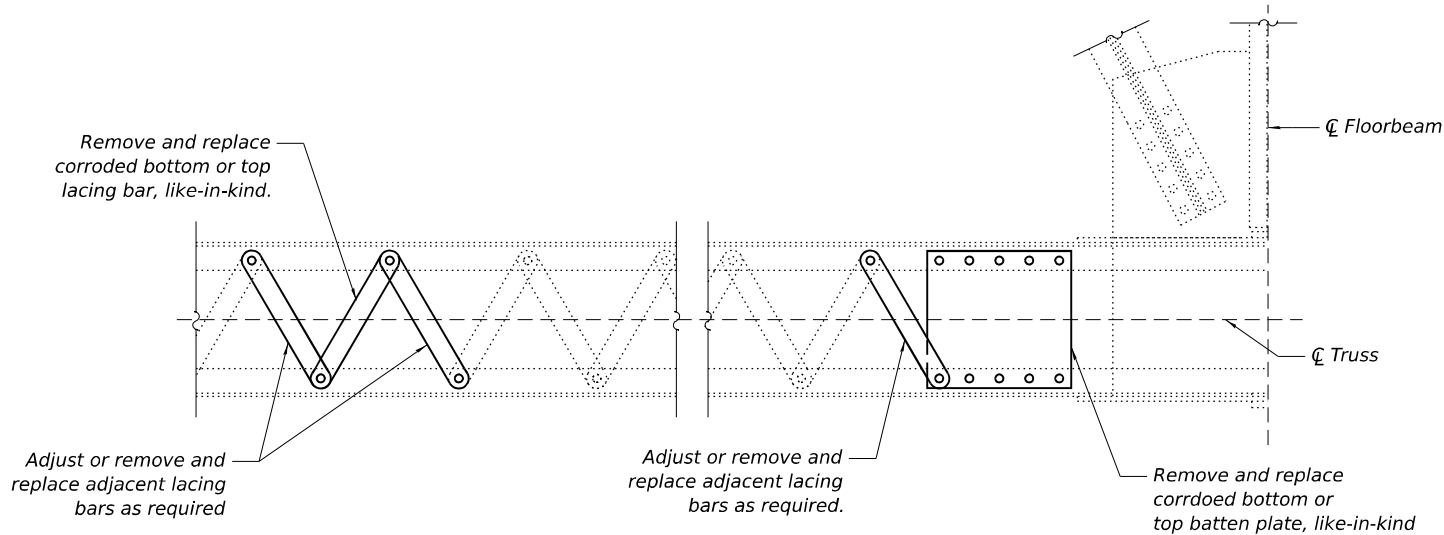
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**MISCELLANEOUS STEEL REPAIRS 1
S.N. 063-0002 HAVANA BRIDGE OVER ILLINOIS RIVER**

SHEET S39 OF S41 SHEETS

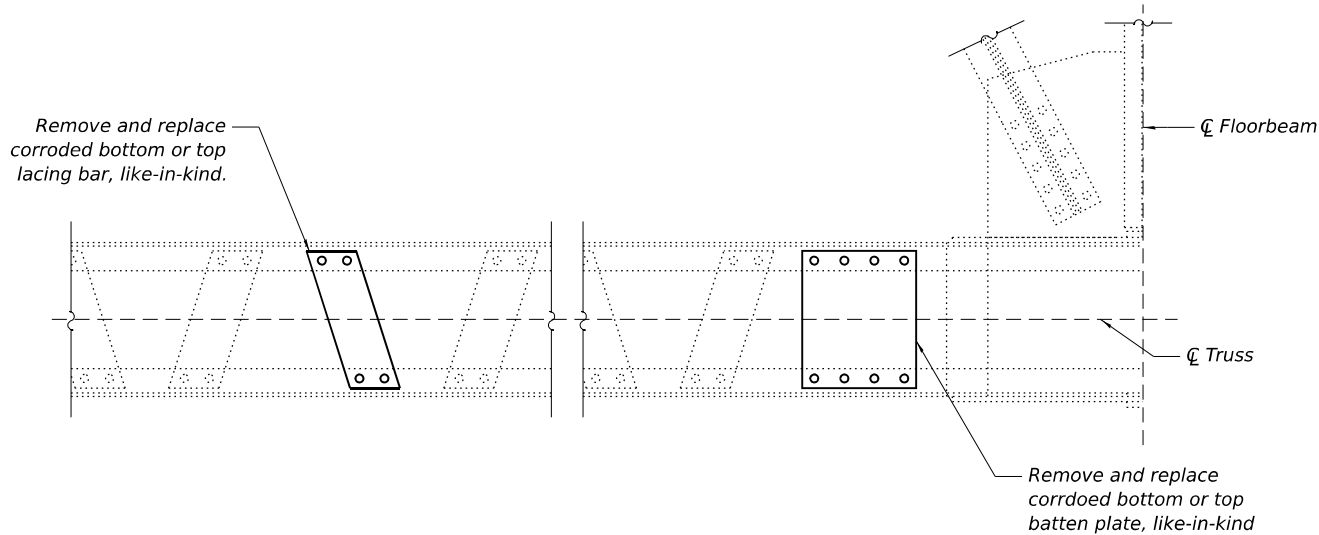
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
315	(140-B-BR)BP, BRR	FULTON/MASON	163	68
				CONTRACT NO. 68F50
		ILLINOIS	FED. AID PROJECT	

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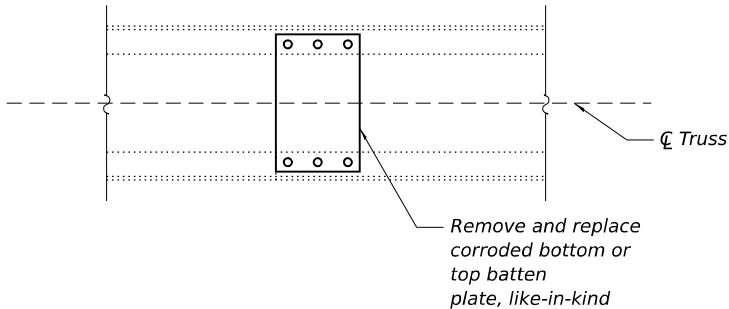
LACING BAR - TYPE 1

BATTEN PLATE - TYPE 1



LACING BAR - TYPE 2

BATTEN PLATE - TYPE 2



BATTEN PLATE - TYPE 3

LEGEND

- Existing fastener to remain
- New 7/8" dia. A325 bolt in new 1 5/16" dia. hole. Field drill 1 5/16" dia. holes for 7/8" dia. high-strength bolts in existing member. Use repair plate, fill plate, or repair angle as a template.
- Replace existing fastener with new 7/8" dia. A325 bolt in existing hole. Holes in new material shall be field drilled using existing members as a template.

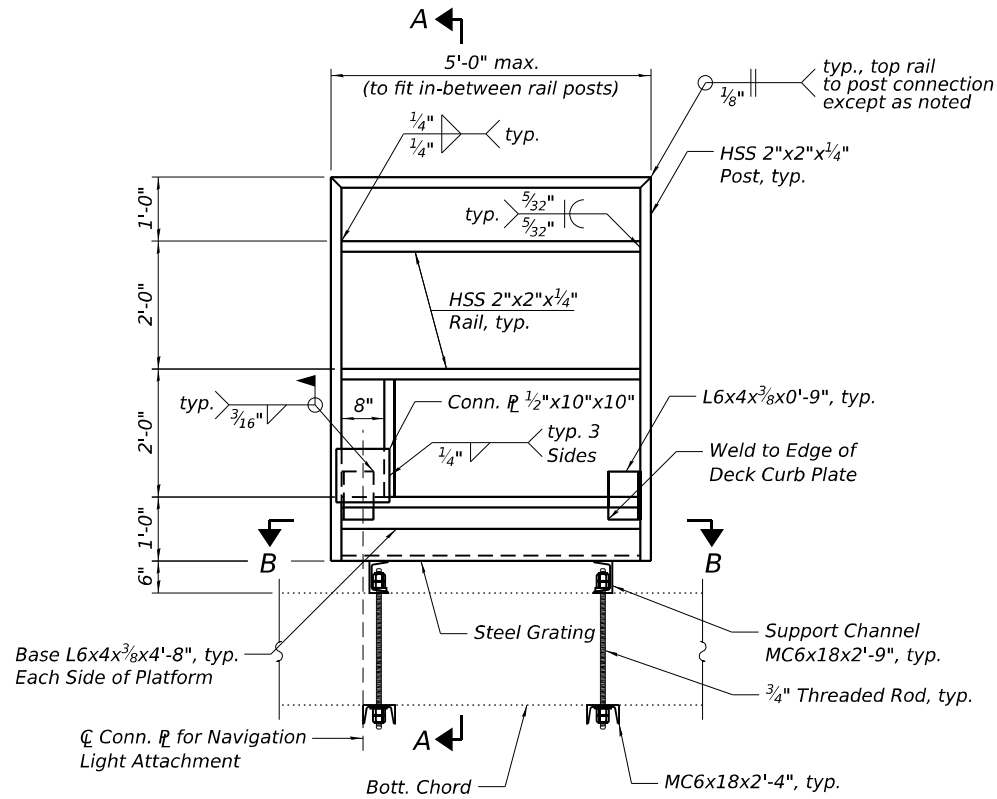
NOTES:

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 Sealant Details, see Sheet S15.
See Sheet S16 thru S18 for NBIS deficiency locations.
The Contractor shall inspect the bridge superstructure for loose, missing and/or corroded batten plates and lacing bars and develop a schedule and take off for review and approval by the Engineer. Quantity provided represents an estimate based on known repair locations at the time of inspection.

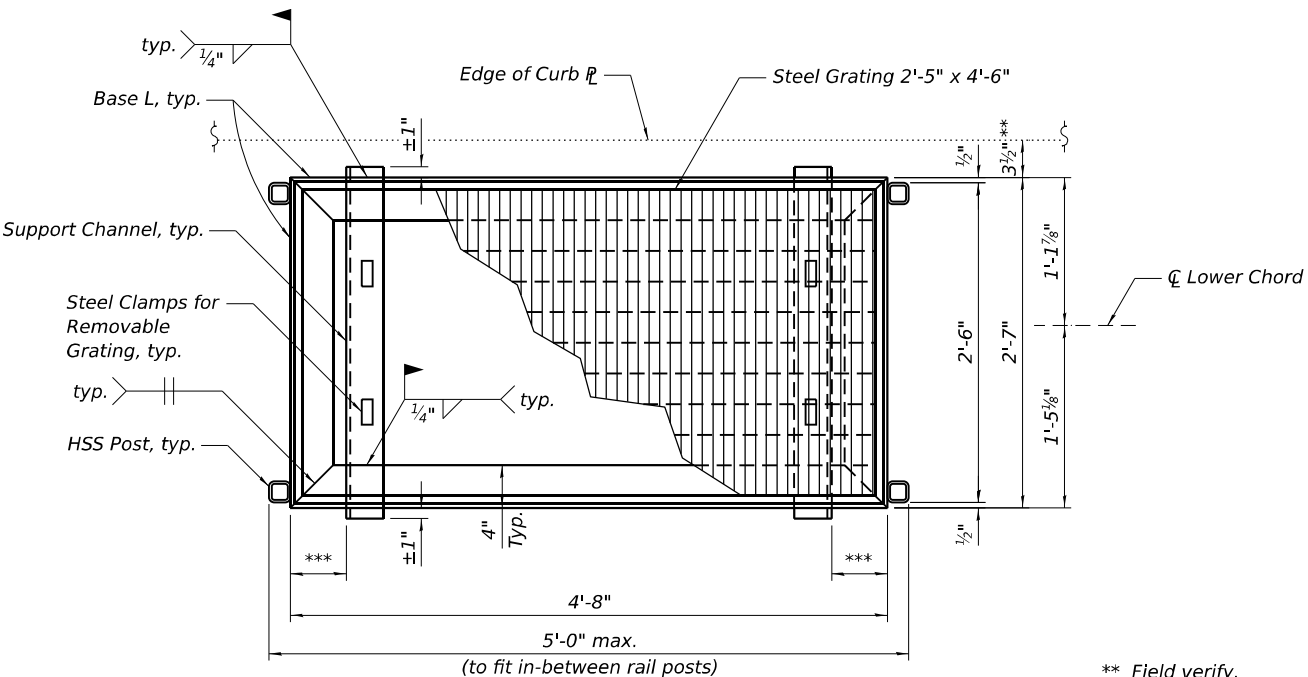
BILL OF MATERIAL

ITEM	UNIT	TOTAL
Structural Steel Repair	Pound	1,750
Structural Steel Removal	Pound	1,750

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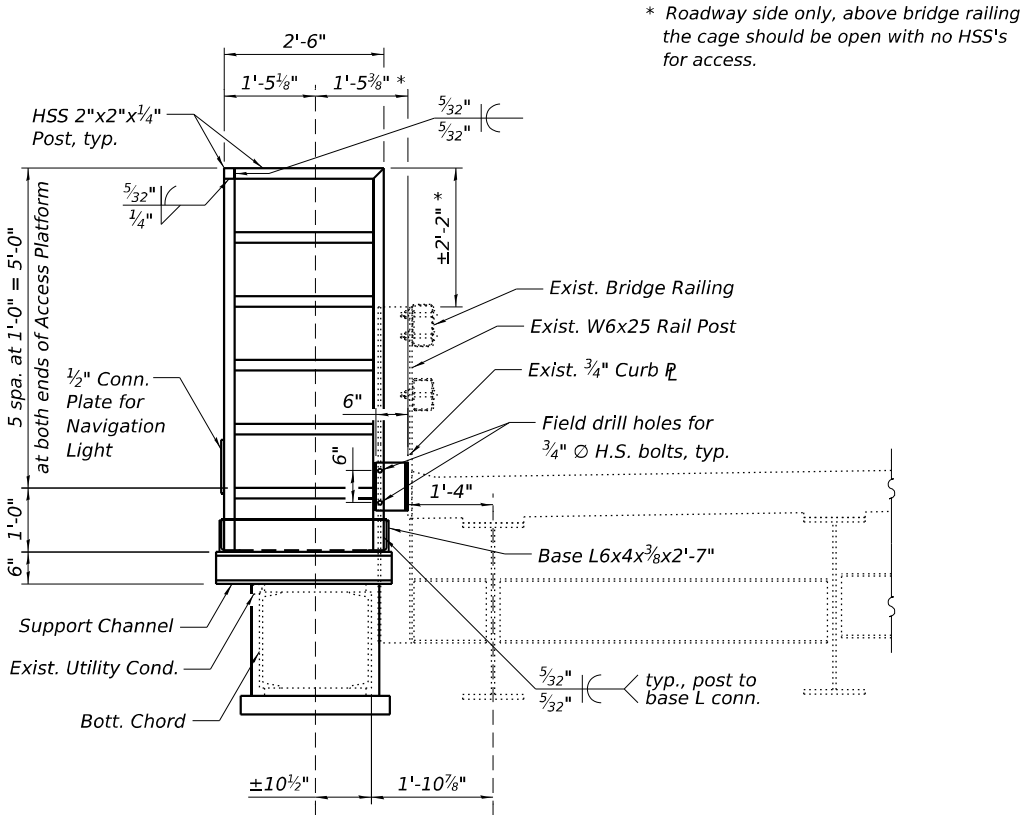
PARTIAL ELEVATION AT ACCESS PLATFORM



SECTION B-B

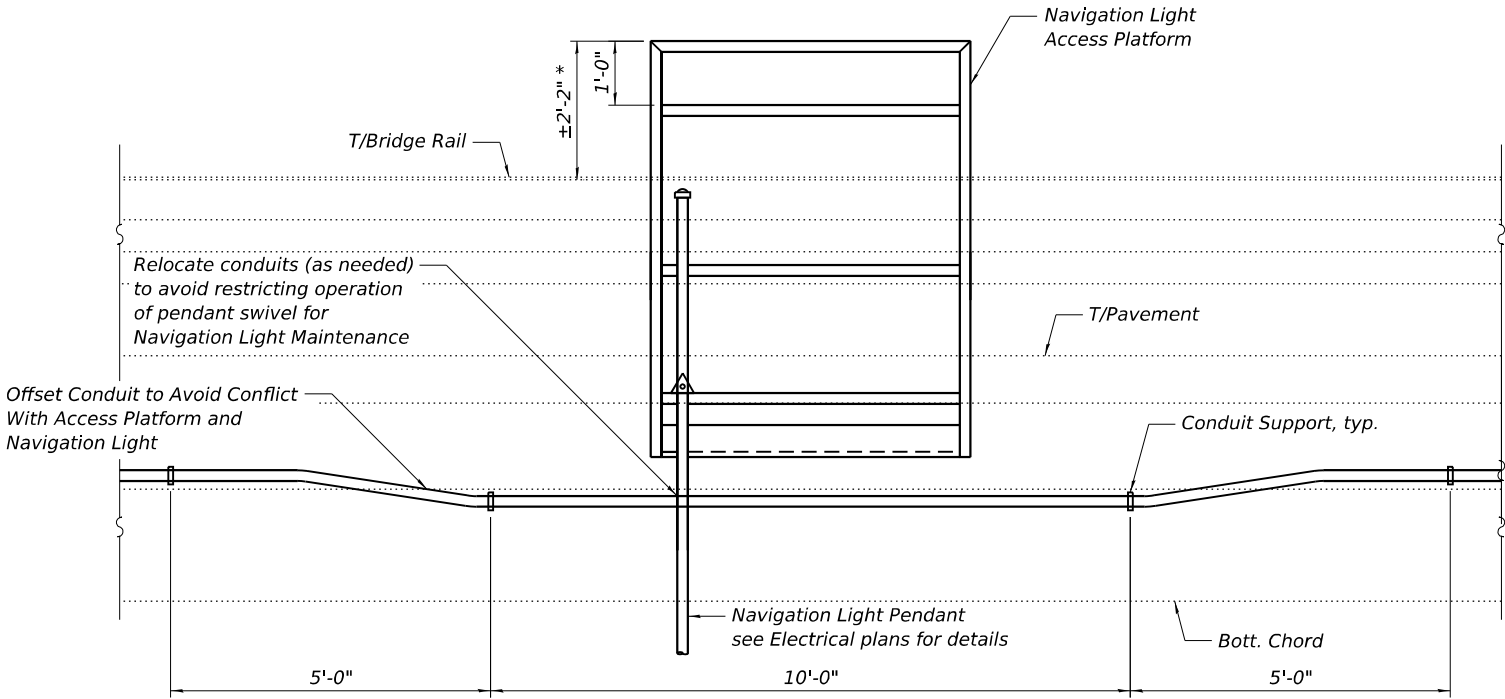
Lower Chord not shown for clarity.

** Field verify.
*** Varies



SECTION A-A

* Roadway side only, above bridge railing the cage should be open with no HSS's for access.



CONDUIT SUPPORT AT ACCESS PLATFORM

MC's and rods not shown for clarity.

NOTES:

Bolts for angle to post connections shall be ASTM F3125 Grade A325 Type 1, mechanically galvanized.

Threaded rods shall be ASTM F1554 Grade 50.

All structural steel shall be AASHTO M270 Grade 50.

HSS steel members shall be ASTM A500, Grade C (50).

Existing utility conduits attached to select lower chord members shall be temporarily detached, temporarily supported, modified as needed to fit around the new access platforms, and reattached after the access platform replacement has been completed. All cost shall be included under Access Ladder pay item.

Steel grating shall be galvanized per ASTM A123 and ASTM A384. All other steel components of the new access platforms, support channels, and associated attachments and hardware, shall be galvanized after fabrication according to AASHTO M111 and M232 as applicable.

Existing steel that will be in contact with new steel from the access platform replacement will be cleaned and painted in accordance with the special provision for cleaning and painting contact surface areas of existing steel structures for secondary connections.

For details on the navigation lights and access platforms locations see electrical drawings.

All cost for the removal and disposal of existing platforms shall be included under Access Ladder pay item.

NOTE:

1. Provide support and offset for existing conduits that conflict with access platform and navigation light installation. All cost shall be included under Access Ladder pay item.

COLLINS ENGINEERS

USER NAME =	DESIGNED - LDB	REVISED -
PLOT SCALE =	CHECKED - MAH/JA	REVISED -
PLOT DATE =	DRAWN - DMR	REVISED -
	CHECKED - MAH/JA	REVISED -

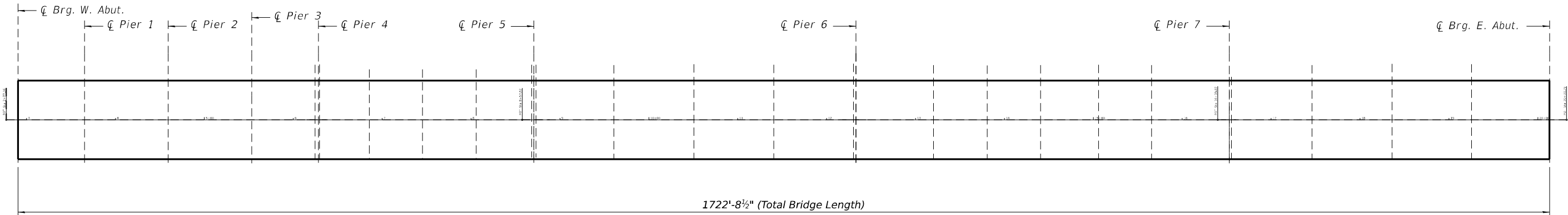
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**NAVIGATION LIGHTING ACCESS PLATFORM DETAILS
S.N. 063-0002 HAVANA BRIDGE OVER ILLINOIS RIVER**

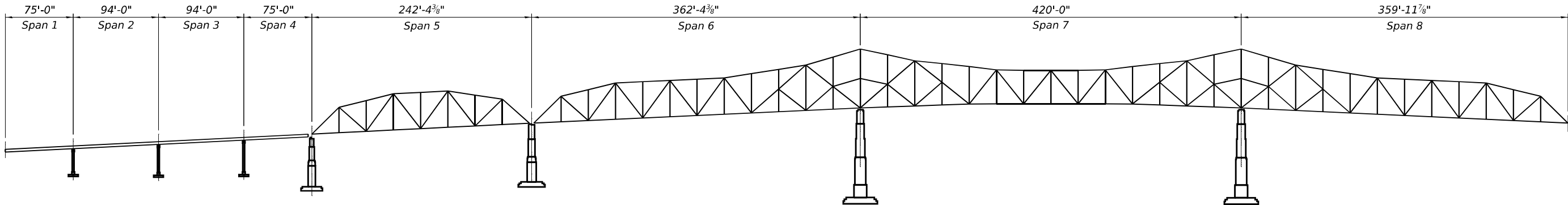
SHEET S41 OF S41 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
315	(140-B-BR)BP, BRR	FULTON/MASON	163	70
CONTRACT NO. 68F50				
ILLINOIS FED. AID PROJECT				

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PLAN



ELEVATION

SCOPE OF WORK

- Clean and paint the entire steel structure, including truss and approach spans, except the galvanized portions of the steel bridge railing and the galvanized exodermic grid deck system. The existing utility conduit, highway lighting conduit attached to the structure and drainage system shall also be painted.

PAINTING NOTE

- The cleaning and painting Contractor is required to coordinate painting operations to complete work in accordance with the maintenance of traffic and staging plans and structural steel repairs.

CONSTRUCTION REQUIREMENTS

- Inventory and Operating Ratings and Live Load Restrictions are provided on the structure repair plans 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 Rating and Live Load Restrictions are not necessarily representative of capacities to support the Contractors 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.
- The Contractor shall retain the services of an engineering firm, pre-qualified it 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 Provisions.

TOTAL BILL OF MATERIAL

ITEM	UNIT	TOTAL
Containment and Disposal of Lead Paint Cleaning Residues No. 1	L. Sum	1
Cleaning and Painting Steel Bridge 1	L. Sum	1

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PAINTING NOTES

1.

The cleaning and painting Contractor is required to coordinate painting operations to complete work in accordance with the maintenance of traffic and staging plans and structural steel repairs.
2.

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. After the sealant has cured in accordance with the manufacturer's written product data sheet, a stripe finish coat shall be applied over the sealant. All costs associated with the installation of the sealant at steel repair locations shall be included with the cost for Structural Steel Repair.
3.

The Contractor shall obtain any necessary permits/permissions from the Illinois Department of Natural Resources (IDNR), Army Corps of Engineers, Illinois Environmental Protection Agency (IEPA), Coast Guard or any other entity to meet requirements set forth by those entities should Contractor choose to access abutments and piers via the river by means of dredging, placement of material for run-arounds, causeways of any other means that occurs in or adjacent to the water.
4.

Cleaning and painting of beam ends shall be performed after the concrete removal at the joints has been completed and prior to the installation of any forms for the placement of the new concrete at these locations.
5.

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 that the exterior surfaces and bottom of the bottom flange of the fascia beams, masked off connection surfaces, and the field installed fasteners, shall be touched up and finish coated in the field. The color of the final finish coat for all steel surfaces shall be "Warm Grey" Munsel 2.5Y 5/1.
6.

Cleaning and painting existing structural steel shall be as specified in the Special Provision for Cleaning and Painting Existing Steel Structures except at the locations of steel repairs or where new structural steel is to be added.
7.

Cleaning and painting of existing structural steel in the area of steel repairs or where new structural steel will be in contact with existing structural steel shall be specified for Primary Connections in the Special Provision for Cleaning and Painting Contact Surface Areas of Existing Steel Structures. All beams, and other structural steel within 5 feet (measured along the beam) of either side of repair area shall be cleaned per Near White Blast Cleaning - SSPC-SP10 and / or per Commercial Grade Power Tool Cleaning - SSPC-SP15. All cost is included under "Structural Steel Repair" pay item.
8.

The designated areas cleaned per Near White Blast Cleaning (SSPC - SP10) shall be painted according to the requirements of Paint System 1 - OZ/E/U. The color shall be "Warm Grey" Munsel 2.5Y 5/1.
9.

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 the Containment and Disposal of Lead Paint Cleaning Residues.
10.

The Contractor Shall submit calculations and details demonstrating the structural integrity of the bridge is maintained under the imposed loads of the containment system for the truss spans. See Special Provisions.
11.

A minimum of two (2) 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.
12.

Existing caulking within the limits of cleaning and painting shall be removed, and new joint sealant shall be installed. Also, within the limits of cleaning and painting, Joint sealant shall be installed around all other connection plates and at areas of pack rust between built- up plate members. The sealant shall be an approved polyurethane sealant, compatible with the proposed paint system, and shall be submitted to the Engineer for approval prior to use. The surfaces of the crevices to receive joint sealant shall be cleaned per the Special Provision for Cleaning and Painting Existing Steel Structures. Once the paint system is dry to the touch, the sealant shall be installed over the Finish coat. After the sealant has cured in accordance with the manufacture's written data sheet, a stripe Finish coat shall be applied over the sealant. All costs associated with the installation of sealant within the limits of cleaning and painting shall be included in the cost of Cleaning and Painting Steel Bridge No. 1.
13.

Only structural steel and other designated surfaces shall be painted. All other surfaces shall be protected from contractors blasting and painting operations. Any areas damaged by blasting or overspray will be removed and repaired at the Contractor's expense and no additional compensation will be allowed.
14.

Care shall be taken not to damage rubber bearing or joint components during blasting and cleaning operations. any damage to these components shall be repaired at Contractor's expense.
15.

SSPC QP1 and SSPC QP2 certification are required for the cleaning and painting work.

FEHR GRAHAM

ENGINEERING & ENVIRONMENTAL

ILLINOIS DESIGN FIRM NO. 104-0010023

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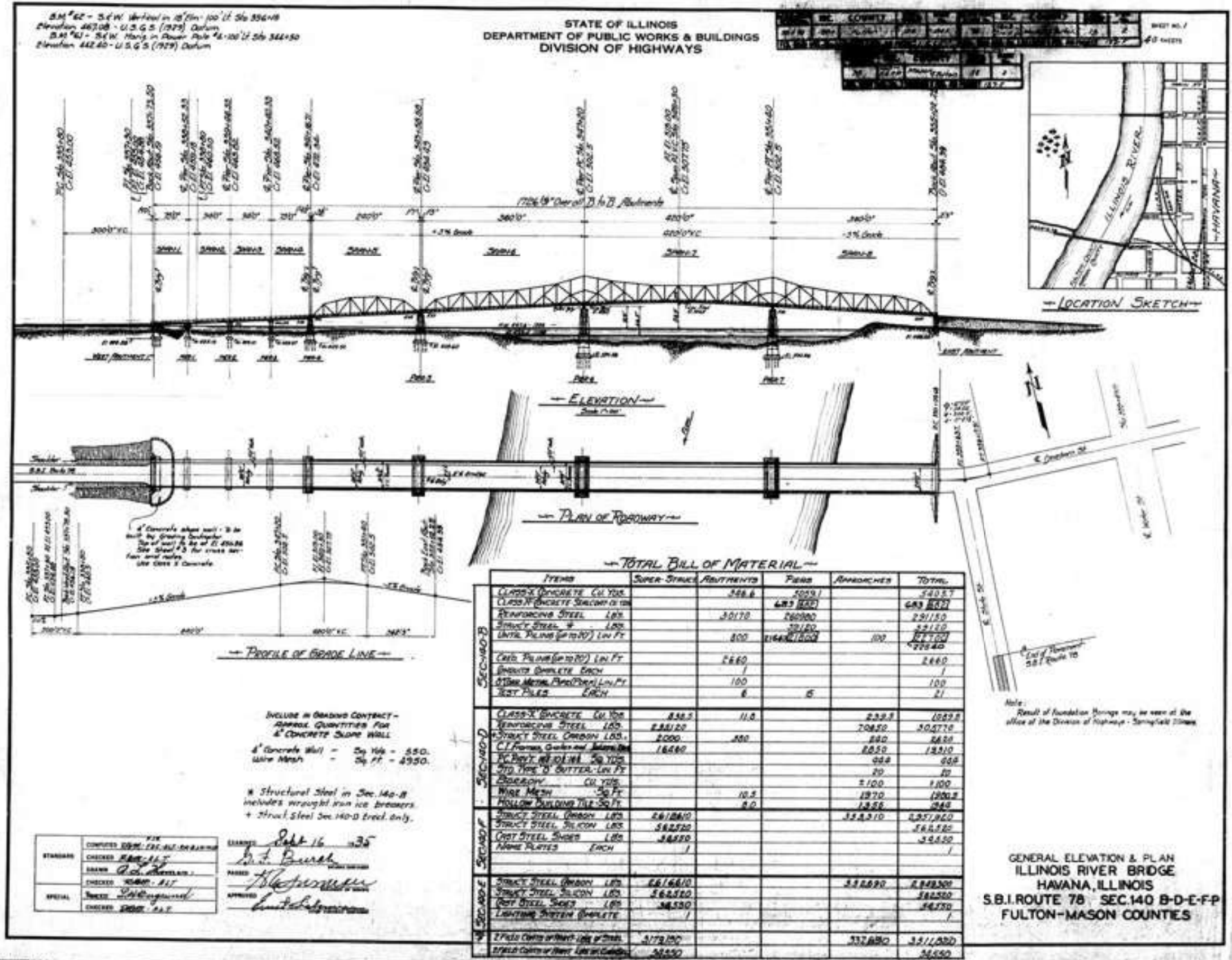
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

STRUCTURE PAINTING
S.N. 063-0002 HAVANA BRIDGE OVER ILLINOIS RIVER

SHEET OF SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
315	(140-B-BR) BP,BRR	FULTON/MASON	163	72
		CONTRACT NO. 68F50		
		ILLINOIS	FED. AID PROJECT	

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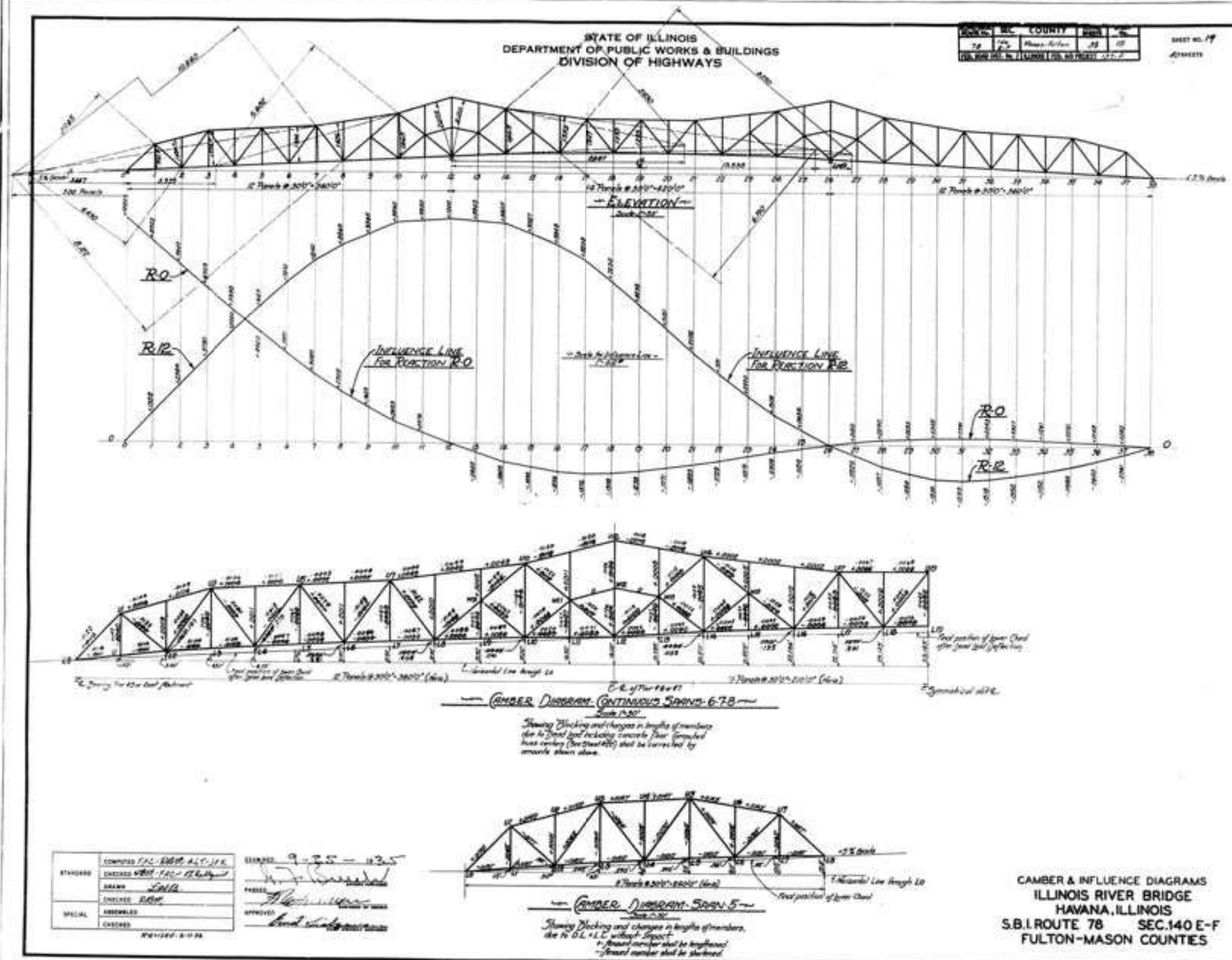
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

EXISTING 1935 PLANS
S.N. 063-0002 HAVANA BRIDGE OVER ILLINOIS RIVER

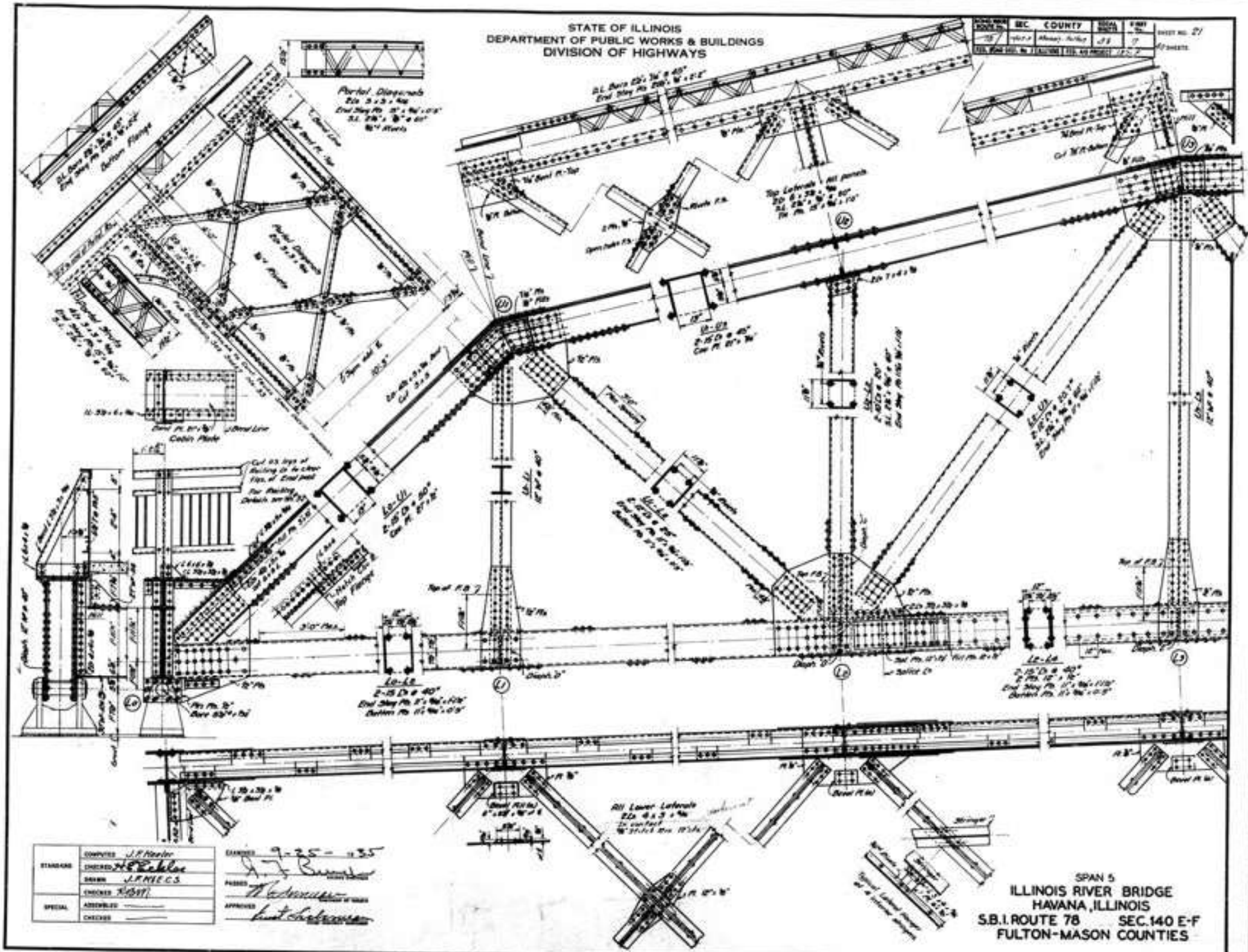
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CONTRACT NO. 68F50				
ILLINOIS FED. AID PROJECT				

FOR INFORMATION ONLY



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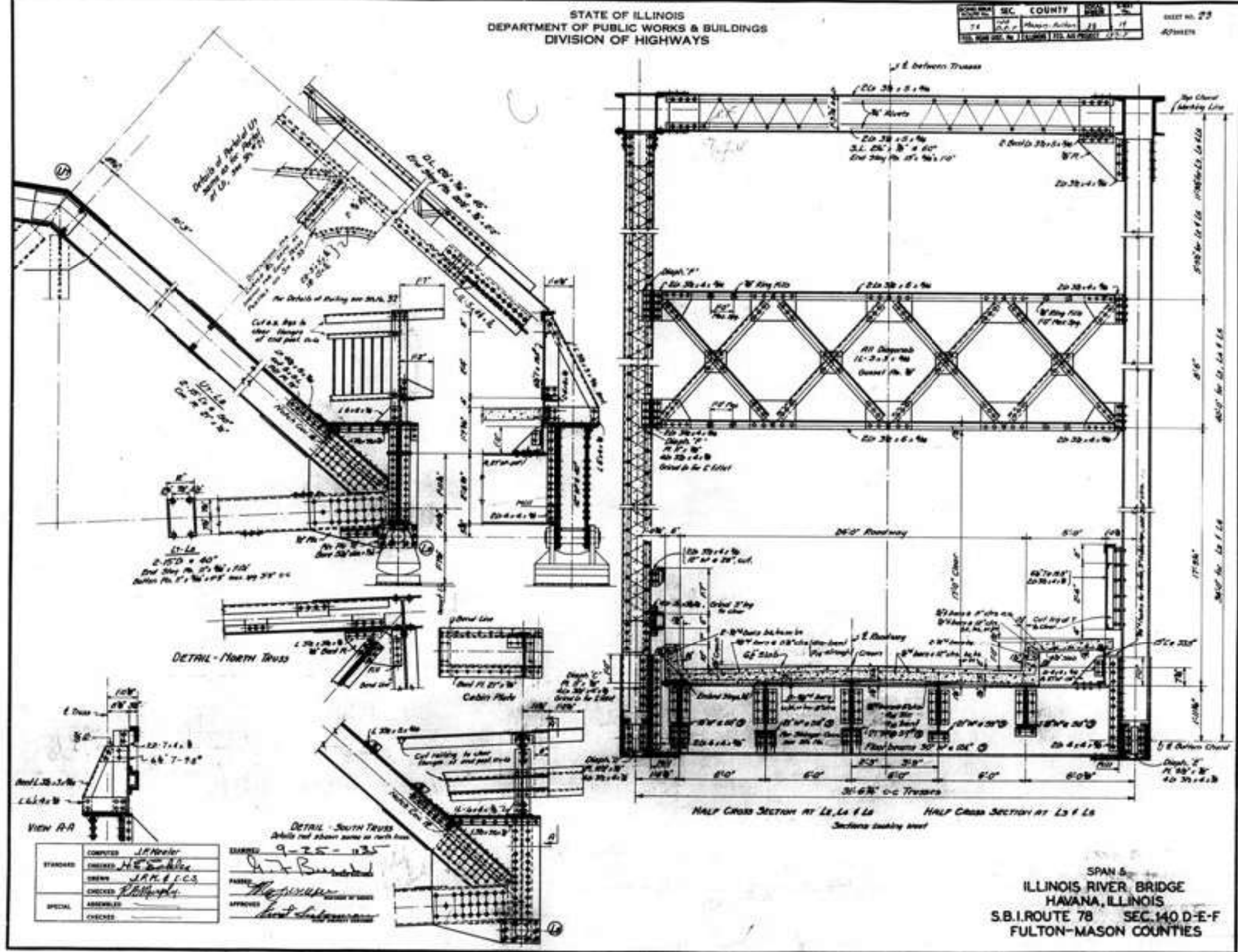
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

EXISTING 1935 PLANS
S.N. 063-0002 HAVANA BRIDGE OVER ILLINOIS RIVER

SHEET OF SHEETS

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ILLINOIS FED. AID PROJECT				

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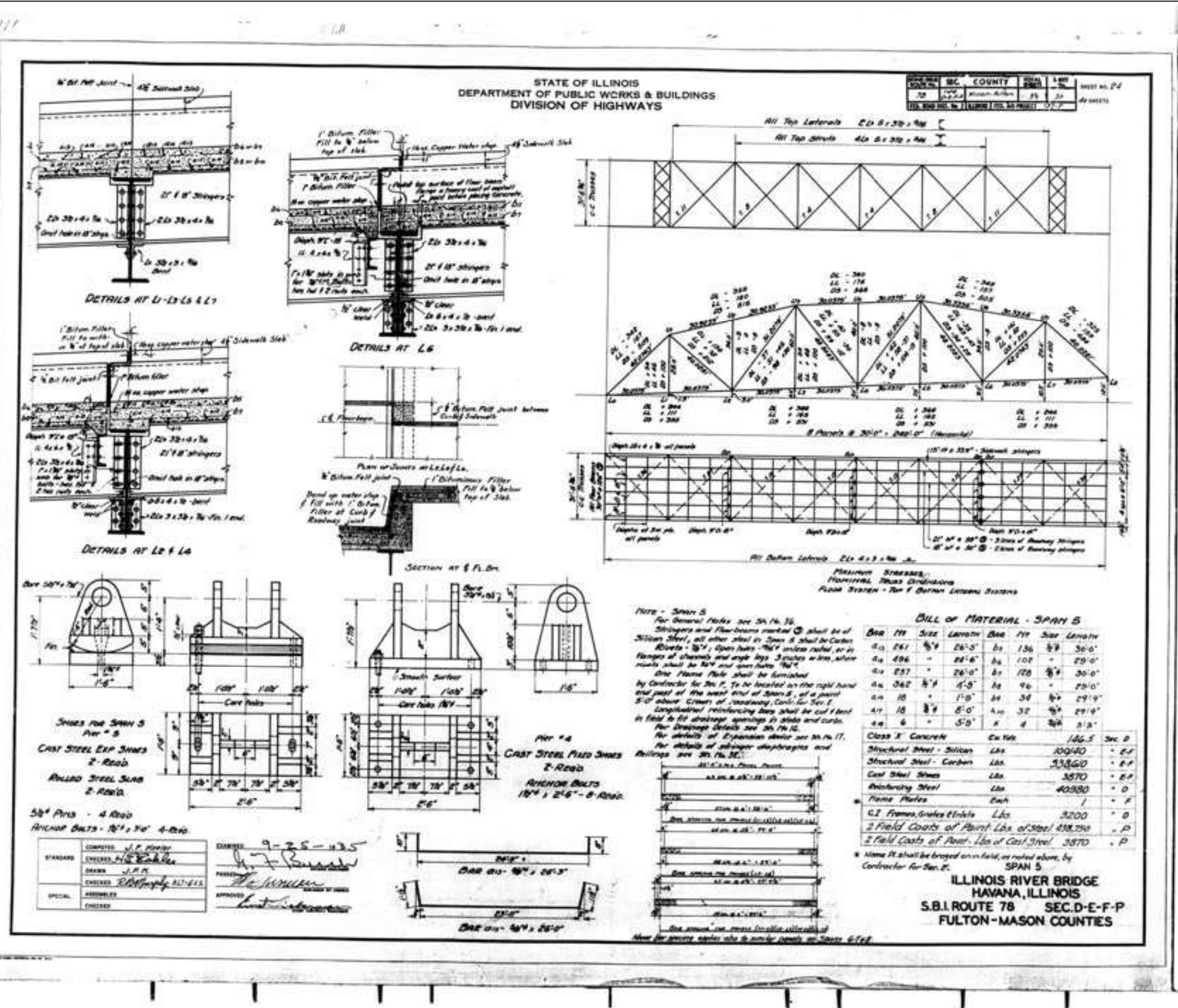
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

EXISTING 1935 PLANS
S.N. 063-0002 HAVANA BRIDGE OVER ILLINOIS RIVER

SHEET OF SHEETS

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CONTRACT NO. 68F50				
ILLINOIS FED. AID PROJECT				

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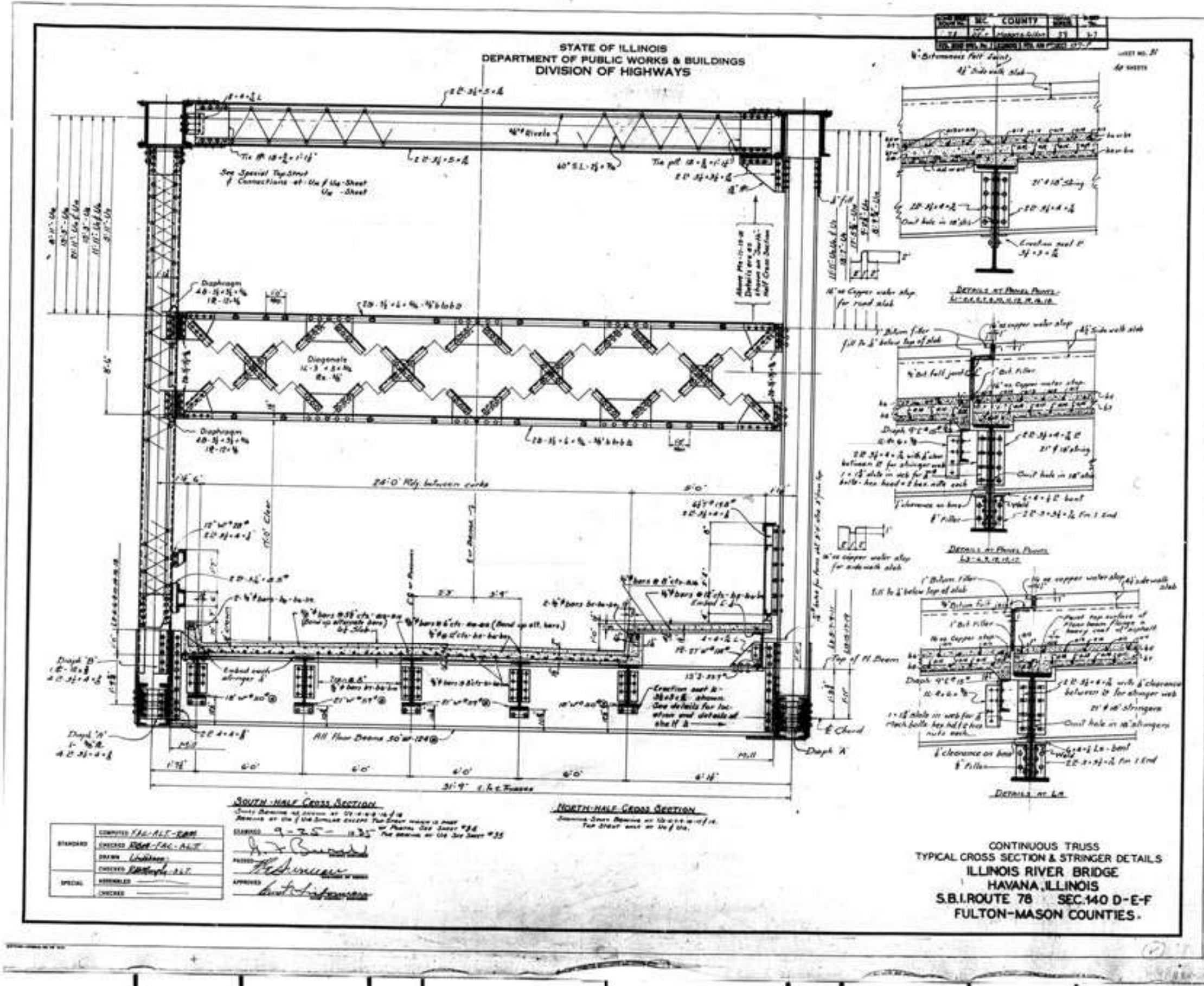
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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

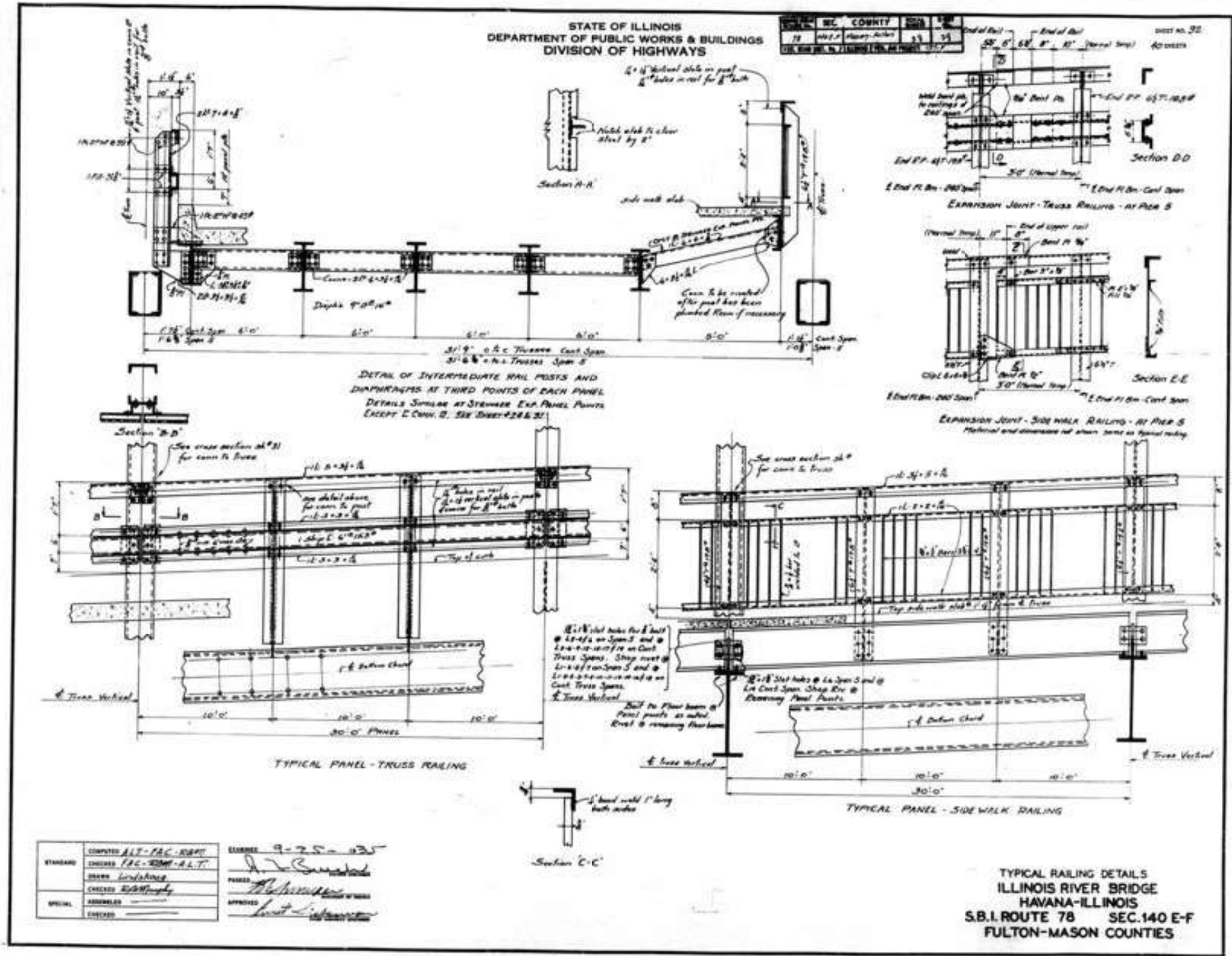
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S.N. 063-0002 HAVANA BRIDGE OVER ILLINOIS RIVER

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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

EXISTING 1935 PLANS
S.N. 063-0002 HAYANA BRIDGE OVER ILLINOIS RIVER

SHEET OF SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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CONTRACT NO. 68F50				
ILLINOIS FED. AID PROJECT				

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PLOT DATE =	CHECKED -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

EXISTING 1935 PLANS
S.N. 063-0002 HAVANA BRIDGE OVER ILLINOIS RIVER

SHEET OF SHEETS

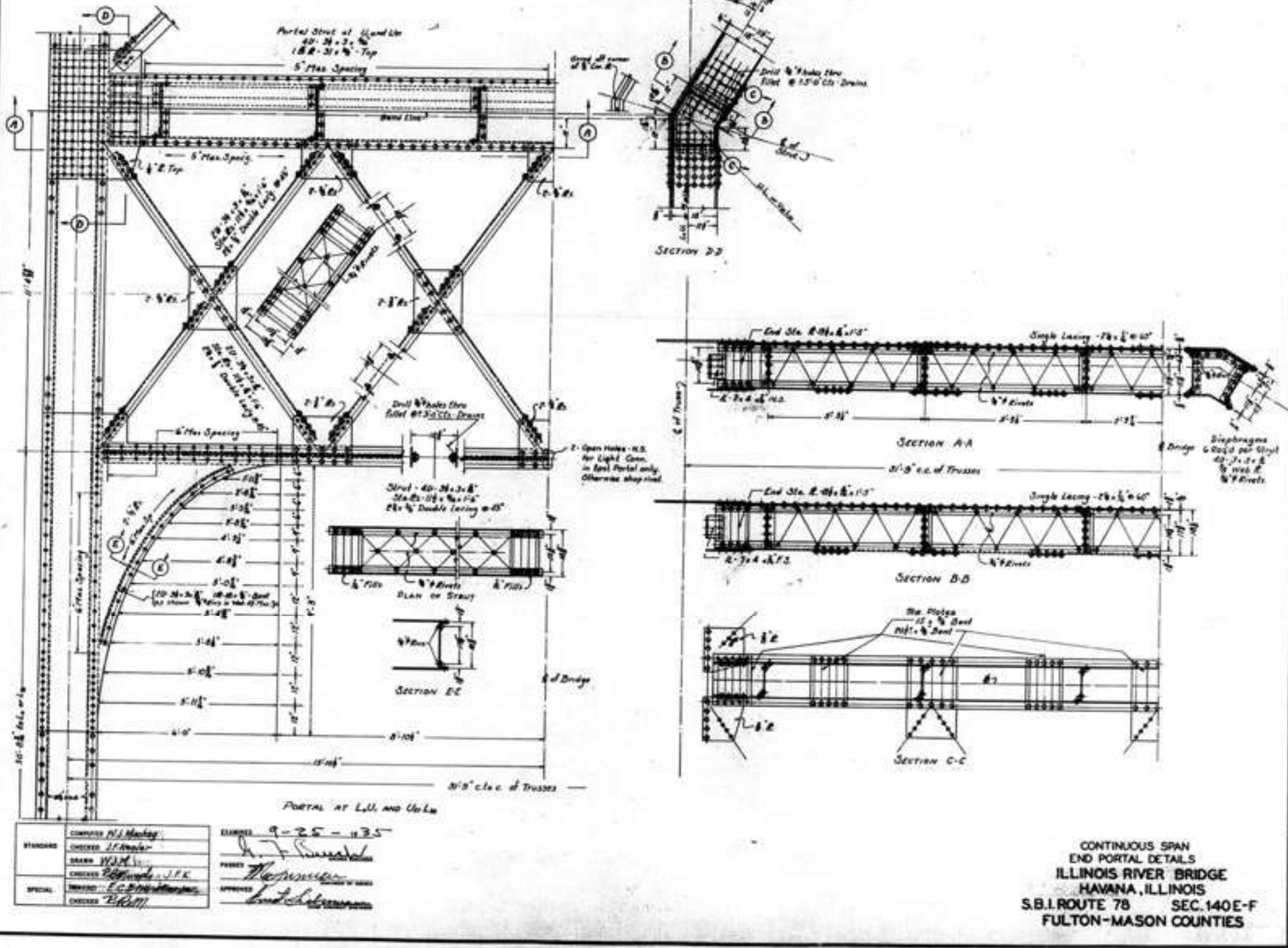
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CONTRACT NO. 68F50				
ILLINOIS FED. AID PROJECT				

FOR INFORMATION ONLY

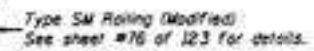
STATE OF ILLINOIS
DEPARTMENT OF PUBLIC WORKS & BUILDINGS
DIVISION OF HIGHWAYS

SECTION	NO.	COUNTY	DATE	BY
11	100	Alton, Arden	1935	14
ILL. HIGHWAY NO. 140 (B-BR) BP, BRR				

SHEET NO. 87
OF SHEETS



PROJECT NO.	SECTION	SHEET	DATE	BY
F.A.P. 28	MOD- 1-4	FLAT TOP & SECTION		
THIS SHEET CONTAINS 1		SHEET NO. 12		
		123 SHEETS		



Notes: See sheet #13 of 123 for superstructure details.
Section A-A, Section B-B and Bill of Material.
Reinforcement bars designated (E) shall be epoxy coated.
Bars indicated thus 20 x 3-#15 etc. indicates 20 lines of bars with 3 lengths per line.
Cut reinforcement bars to miss drainage scuppers.
For spacing of drainage scuppers see sheet #1 of 123.

SUPERSTRUCTURE
SPANS #1 THRU #4
F.A.P. RT. 315 SECTION 140B-I-4
FULTON AND MASON COUNTIES
STATION 10+646.69

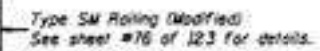
Revised 7-16-97 STD

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FOR INFORMATION ONLY

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
315	(140-B-BR) BP,BRR	FULTON/MASON	163	90
		CONTRACT NO. 68F50		
		ILLINOIS FED. AID PROJECT		

PROJECT NO.	SECTION	SHEET	DATE	BY
F.A.P. 28	MOD-1-4	FLAT TOP & GULLION		
THIS DRAWING SHEET NO. 1		SHEET NO. 123		



Notes: See sheet #13 of 123 for superstructure details.
Section A-A, Section B-B and Bill of Material.
Reinforcement bars designated (E) shall be epoxy coated.
Bars indicated thus 20 x 3-#15 etc. indicates 20 lines of bars with 3 lengths per line.
Cut reinforcement bars to miss drainage scuppers.
For spacing of drainage scuppers see sheet #1 of 123.

SUPERSTRUCTURE
SPANS #1 THRU #4
F.A.P. RT. 315 SECTION 140B-I-4
FULTON AND MASON COUNTIES
STATION 10+646.69

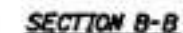
Revised 7-16-97 STD

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FOR INFORMATION ONLY

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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		CONTRACT NO. 68F50		
		ILLINOIS FED. AID PROJECT		

MODEL: SP-22
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(Applies to D. Diaphanum only in Spot 4)

Notes: Curb Plates including curb splice plates and attached studs shall be included in the cost of "Furnishing & Erecting Structural Steel".
All surfaces of the curb plates and curb splice plates shall be galvanized in accordance with AASHTO M113 and ASTM A123. Shear studs shall be welded to curb plate before galvanizing. Curb plates shall not be painted.
Reinforcement bars designated (E) shall be epoxy coated.

Bar	No.	Size	Length (ft)	Sho
#1	839	#15	8.88	—
#1	462	#20	13.20	—
#1	84	#15	0.67	—
#1	330	#15	10.82	—
#1	60	#20	13.20	—
#1	30	#20	13.20	—
#1	286	#15	9.88	—
#1	62	#15	1.28	—
Reinforcement Bars			29	257
Epoxy Coated				
Concrete			m	886
Superstructure				

SUPERSTRUCTURE DETAILS
SPANS #1 THRU #4
F.A.P. RT. 315 SECTION 140B-I-4
FULTON AND MASON COUNTIES
STATION 10+646.69

DESIGNED	JLC
CHECKED	TPB
DRAWN	R. Dorf
CHECKED	JLC - TPB

June 26, 1997
 EXHIBIT Original
 FROM Robert E. Anderson

SHEET NO.	DRAWING	TITLE	DATE	
F.A.P. 100	HOB- 1 & 4	FULFORD & ASSOC.		37
SHEET NO. 17 12.5 SHEETS				

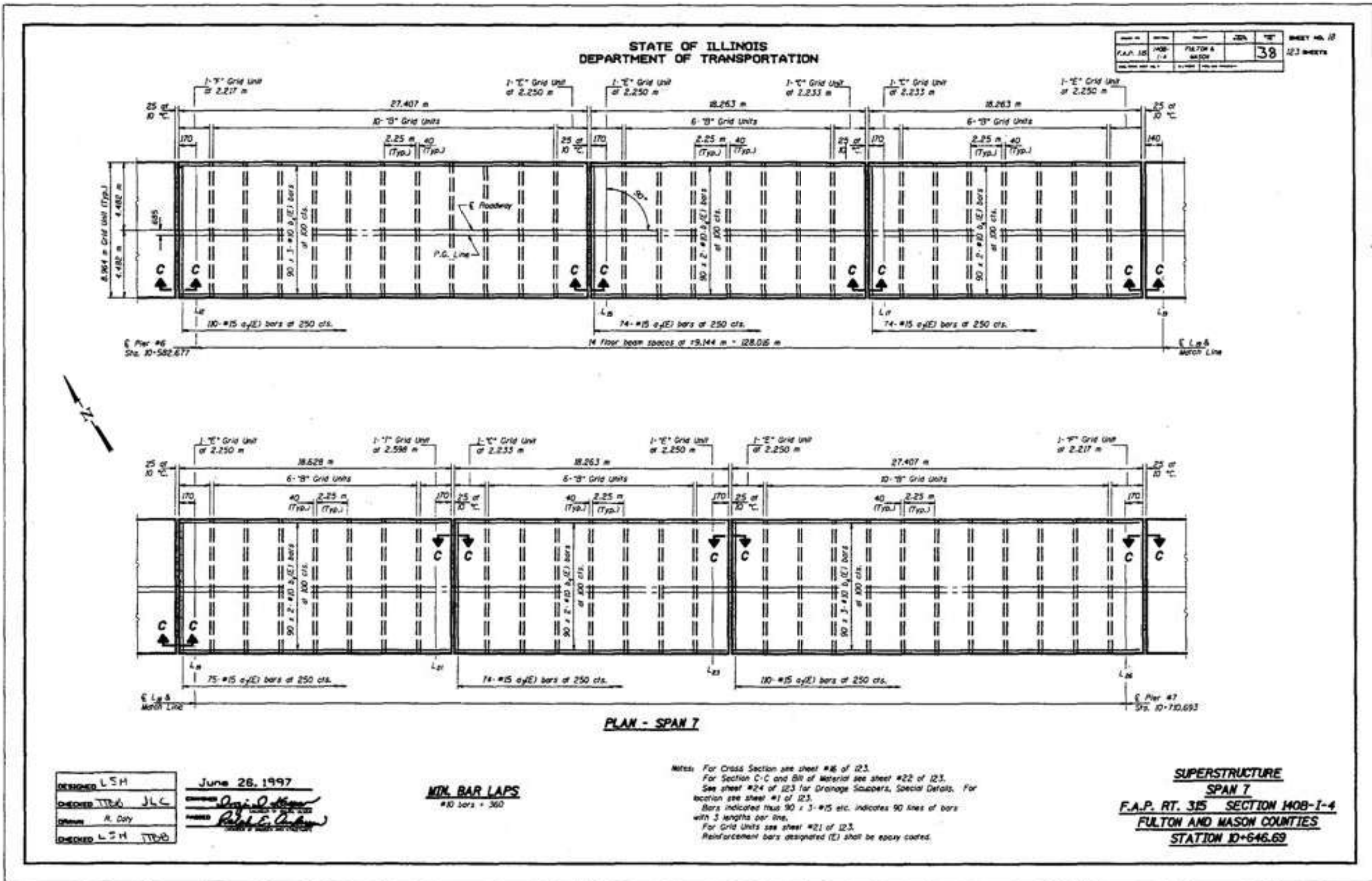


SUPERSTRUCTURE
SPAN 6
F.A.P. RT. 315 SECTION 140B-I-4
FULTON AND MASON COUNTIES
STATION 10+646.69

June 26, 1997

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
315	(140-B-R) BP,BRR	FULTON/MASON	163	94
CONTRACT NO. 68F50				
	ILLINOIS	FED. AID PROJECT		

MODEL: SP-26
FILE NAME: S:\Engineering\Projects\Collins Engineers\20240022 Cedar St. & Havana Phase II Engineering\400 CAD\405 Design\0630002-XXXXX-SP-007.dgn



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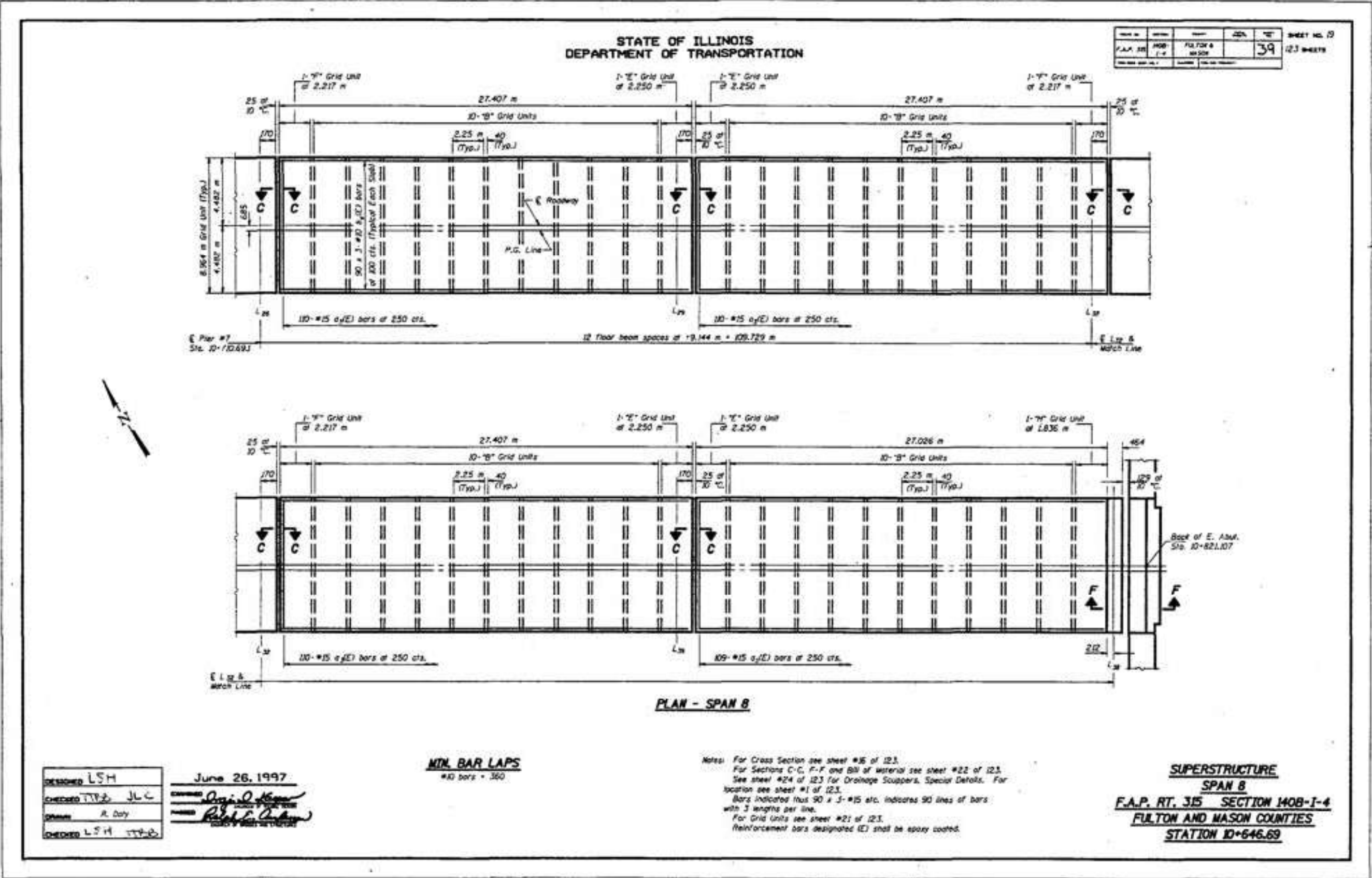
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

EXISTING 1997 PLANS
S.N. 063-0002 HAVANA BRIDGE OVER ILLINOIS RIVER

SHEET OF SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
315	(140-B-BR) BP,BRR	FULTON/MASON	163	95
CONTRACT NO. 68F50				
ILLINOIS FED. AID PROJECT				

MODEL: SP-27
FILE NAME: S:\Engineering\Projects\Collins Engineers\20240022 Cedar St. & Havana Phase II Engineering\400 CAD\405 Design\0630002-XXXX-SP-007.dgn



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PLOT DATE =	DRAWN -	REVISED -
	CHECKED -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

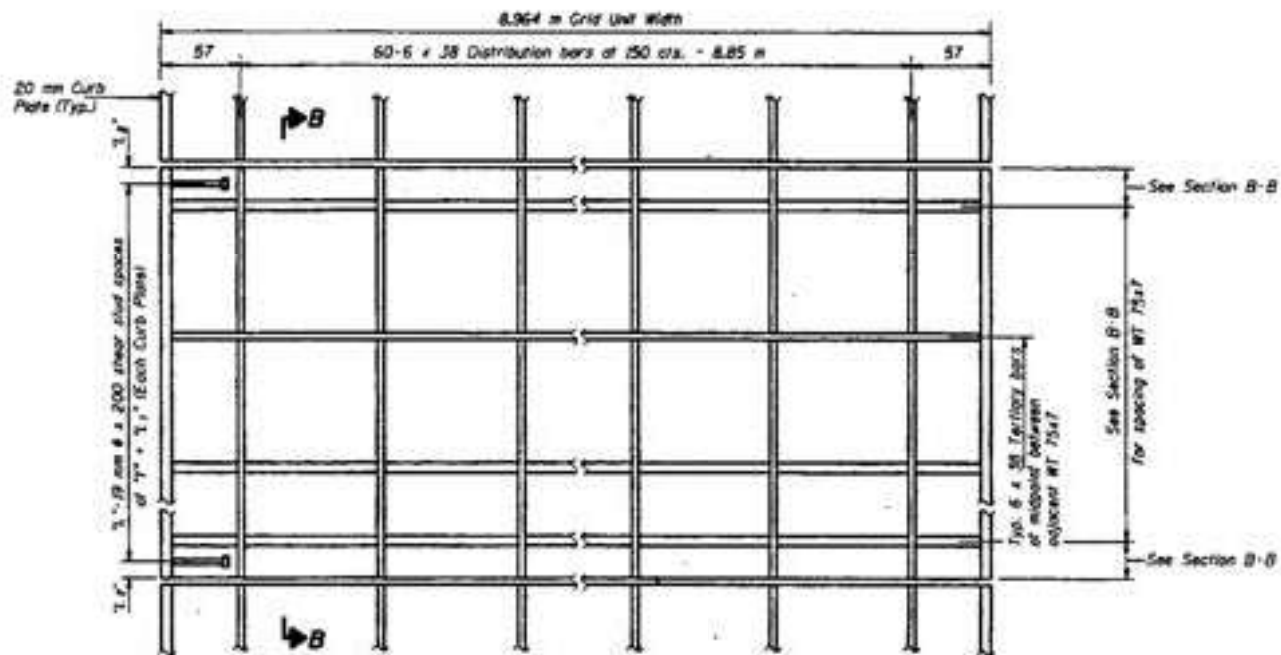
EXISTING 1997 PLANS
S.N. 063-0002 HAVANA BRIDGE OVER ILLINOIS RIVER

SHEET OF SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
315	(140-B-BR) BP,BRR	FULTON/MASON	163	96
CONTRACT NO. 68F50				
ILLINOIS FED. AID PROJECT				

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

DATE	REVISION	BY	APP.	REV.	SHEET NO. 20
F.A.P. 315	MOB-1-4	FULTON & MASON		40	12.1 SHEETS

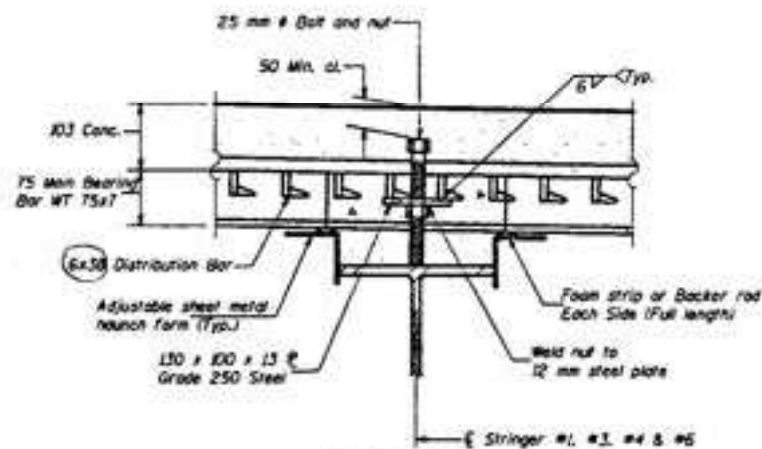


TYPICAL GRID UNIT PLAN

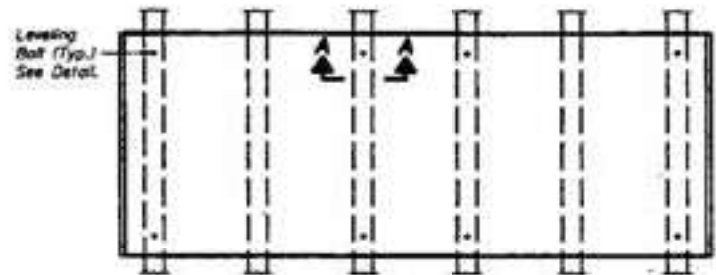
(Grid Unit "B" shown - other units similar)
(Fabricate Grid Units to crown)

TABLE OF "L" DIMENSIONS

UNIT	"L"	"L"	"L"	"L"
14"	5	1.50 m	147	300
18"	7	2.03 m	110	290
22"	7	2.10 m	167	300
26"	7	2.10 m	171	300
30"	7	2.03 m	110	290
34"	7	2.10 m	159	300
38"	7	2.10 m	156	300
42"	5	1.50 m	168	300
46"	8	2.40 m	179	300

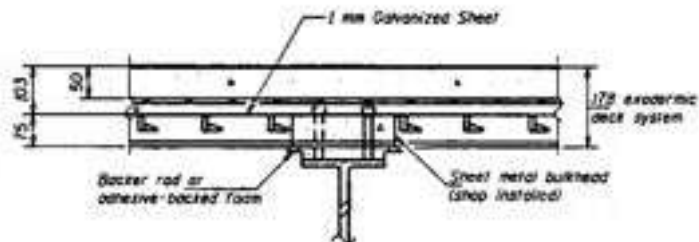


SECTION A-A



LEVELING BOLT LOCATION PLAN

(18 Required per grid unit)
(Place leveling bolts to miss shear studs)



SECTION AT STRINGER

Note: For Section B-B see sheet # 21 of 12.1.

DESIGNED	LSH
CHECKED	TTC JLC
DRAWN	R. Dwy
CHECKED	LSH TTC

June 26, 1997

APPROVED
DESIGNED BY
CHECKED BY
DRAWN BY
DATE

SUPERSTRUCTURE DETAILS
F.A.P. RT. 315 SEC. MOB-1-4
FULTON AND MASON COUNTIES
STA. 10+646.69

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PLOT DATE =	CHECKED -	REVISED -

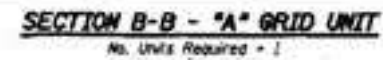
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

EXISTING 1997 PLANS
S.N. 063-0002 HAVANA BRIDGE OVER ILLINOIS RIVER

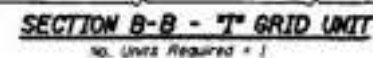
SHEET OF SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
315	(140-B-BR) BP,BRR	FULTON/MASON	163	97
CONTRACT NO. 68F50				
ILLINOIS FED. AID PROJECT				

DATE	SECTION	STATION	SEA	FE
F.A.P. 15	MOB 1-4	SECTION 4		41
THIS SHEET CONTAINS:		SHEET NO. 21		
TOTAL SHEETS: 21		21 SHEETS		



SECTION B-B - "D" GRID UNIT
No. Units Required = 1



SECTION B-B - "F" GRID UNIT

SECTION B-B - "G" GRID UNIT
No. Units Required = 1

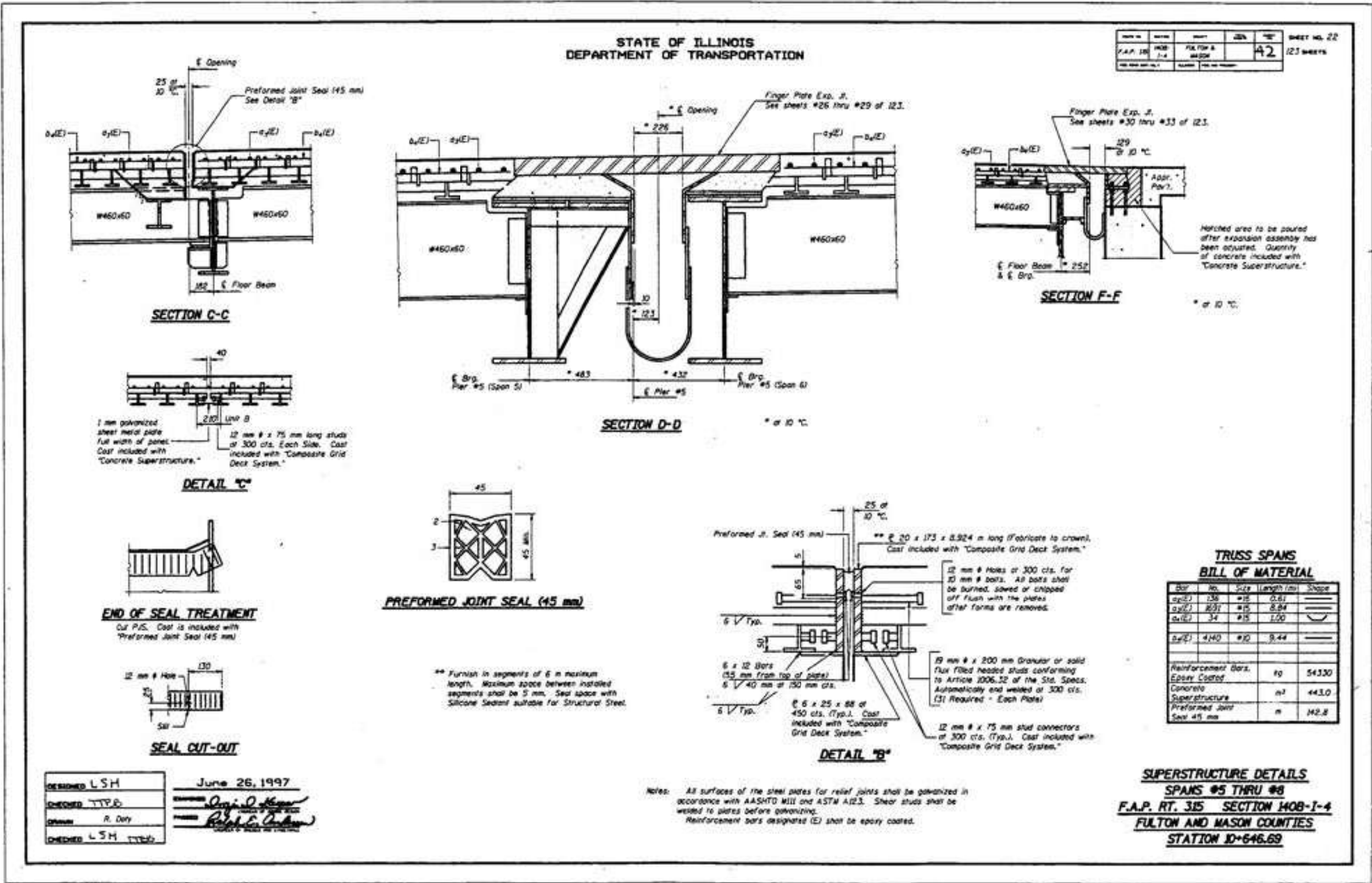


DESIGNED LSH
CHECKED TTB's JLC
DRAWN A. Day
CHECKED LSH TTB's

June 28, 1997
DESIGNED *John J. L...*
CHECKED *...*
DRAWN *...*
CHECKED *...*

SUPERSTRUCTURE DETAILS
F.A.P. RT. 315 SEC. 1408-1-4
FULTON AND MASON COUNTIES
STA. 10+646.69

MODEL: SP-30
FILE NAME: S:\Engineering\Projects\Collins Engineers\20240022 Cedar St. & Havana Phase II Engineering\400 CAD\405 Design\0630002-XXXXX-SP-007.dgn



FOR INFORMATION ONLY

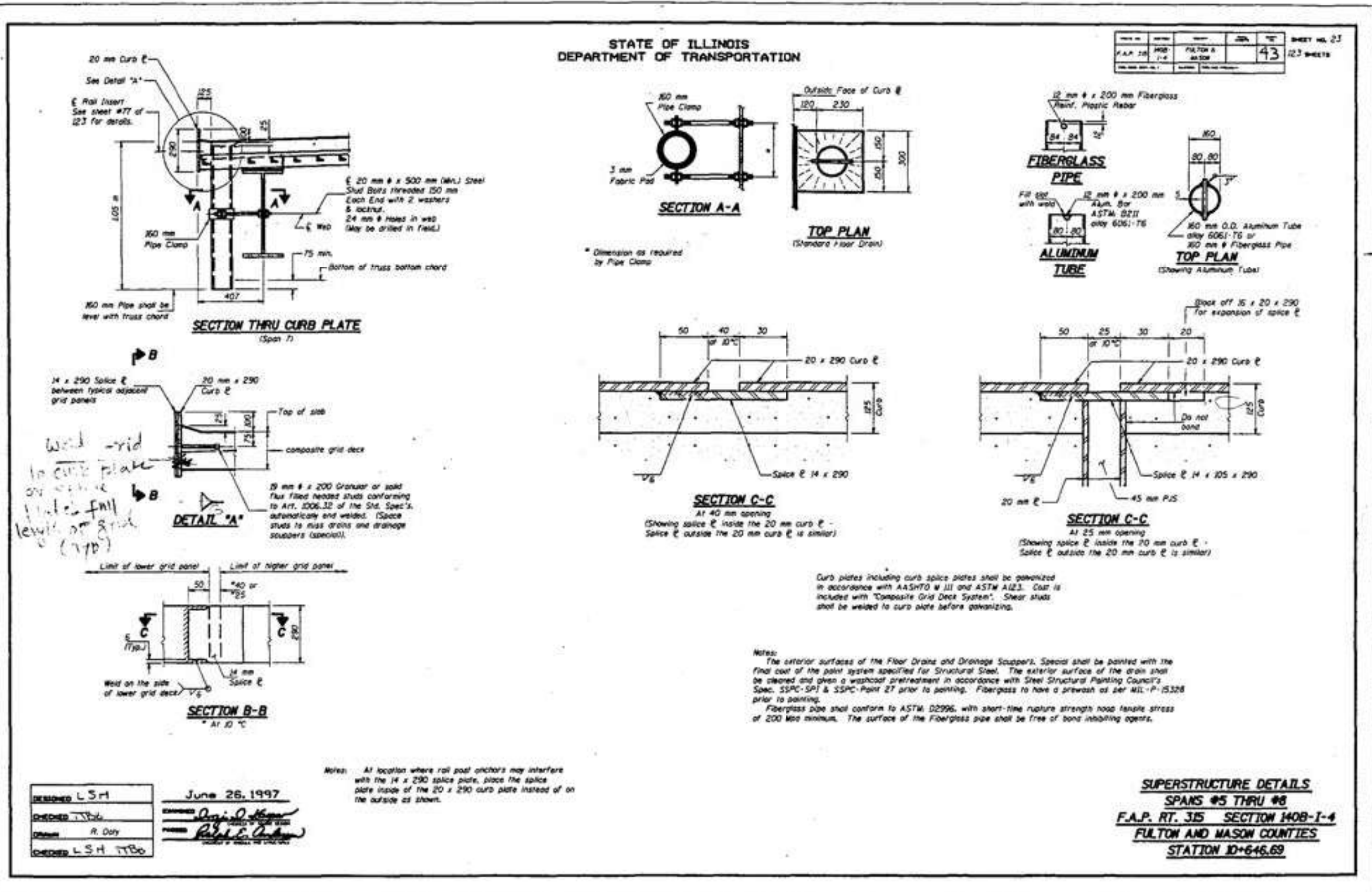
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CHECKED -	CHECKED -	REVISED -
PLOT SCALE =	DRAWN -	REVISED -
PLOT DATE =	CHECKED -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

EXISTING 1997 PLANS
S.N. 063-0002 HAVANA BRIDGE OVER ILLINOIS RIVER

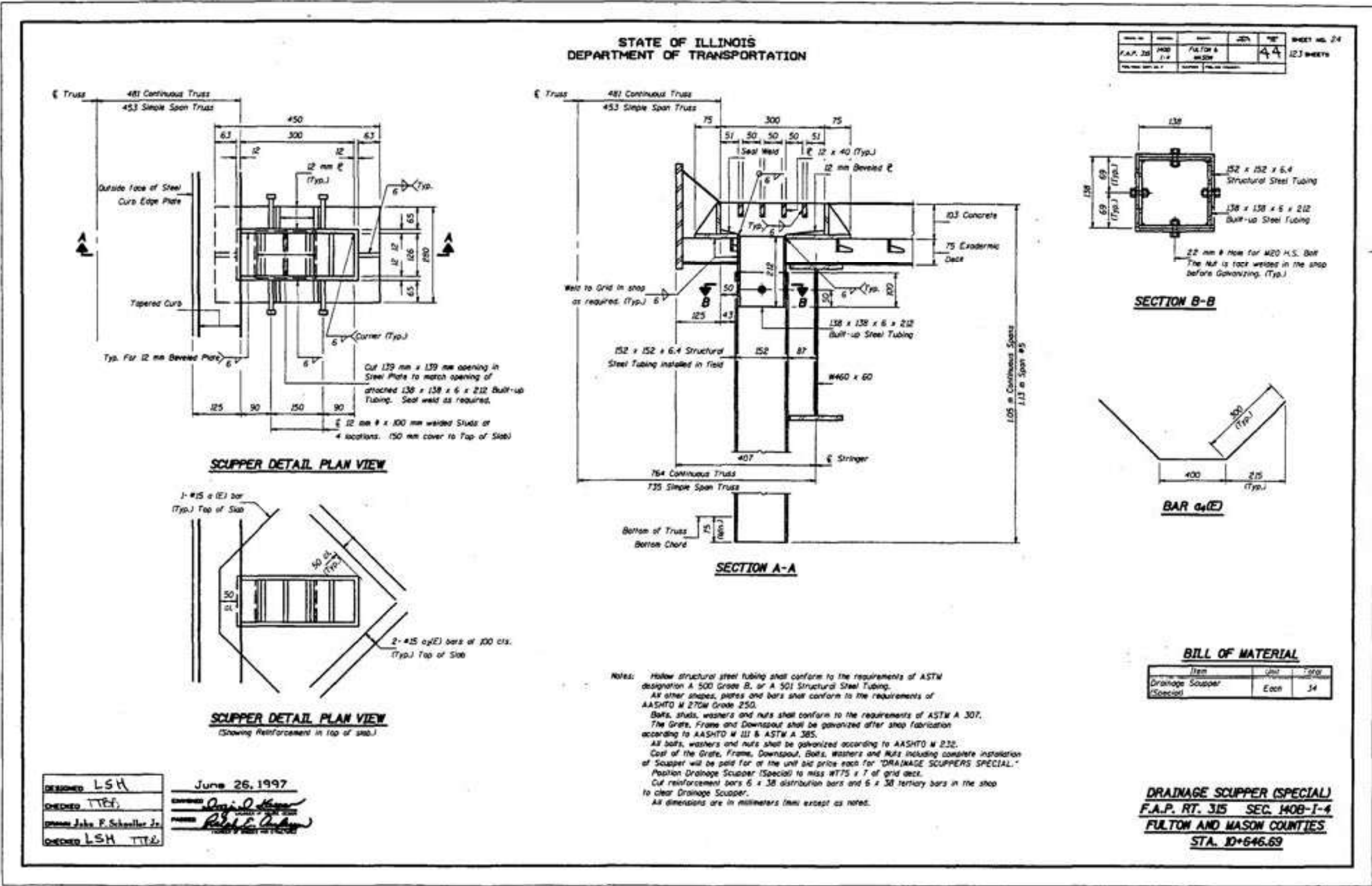
SHEET OF SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
315	(140-B-BR) BP,BRR	FULTON/MASON	163	99
CONTRACT NO. 68F50				
ILLINOIS FED. AID PROJECT				



USER NAME =	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	EXISTING 1997 PLANS S.N. 063-0002 HAVANA BRIDGE OVER ILLINOIS RIVER		F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	CHECKED -	REVISED -				315	(140-B-BR) BP,BRR	FULTON/MASON	163	100
PLOT SCALE =	DRAWN -	REVISED -		SHEET OF SHEETS		CONTRACT NO. 68F50				
PLOT DATE =	CHECKED -	REVISED -				ILLINOIS FED. AID PROJECT				

MODEL: SP-32
FILE NAME: S:\Engineering\Projects\Collins Engineers\20240022 Cedar St. & Havana Phase II Engineering\400 CAD\405 Design\0630002-XXXXX-SP-007.dgn



STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

EXISTING 1997 PLANS
S.N. 063-0002 HAVANA BRIDGE OVER ILLINOIS RIVER

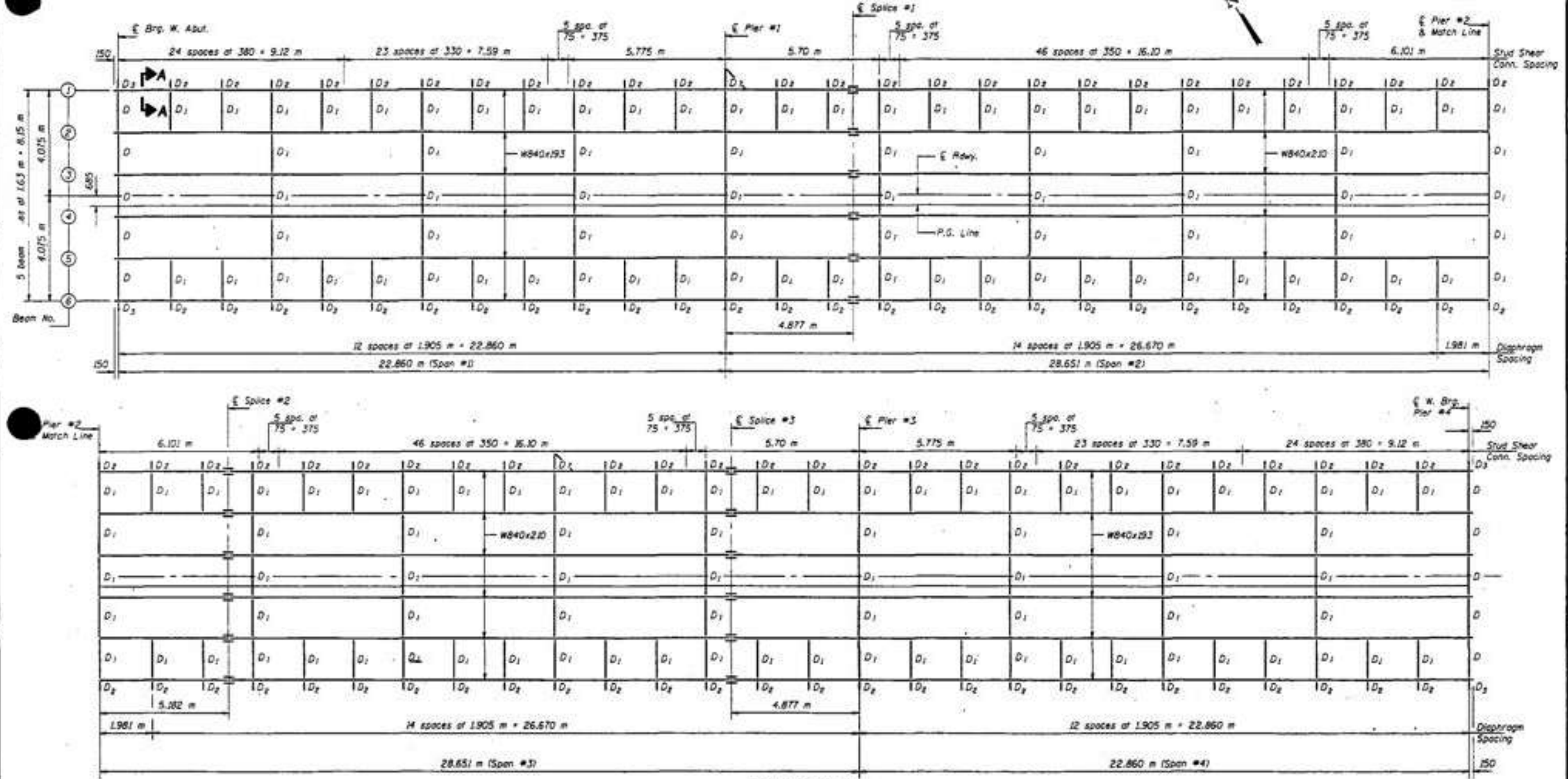
SHEET OF SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
315	(140-B-BR) BP,BRR	FULTON/MASON	163	101
CONTRACT NO. 68F50				
ILLINOIS FED. AID PROJECT				

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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

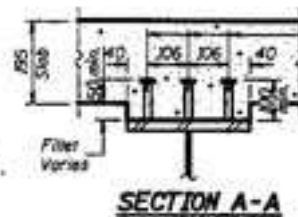
DATE	REVISION	BY	APP.	NOT.	SHEET NO. 34
F.A.P. 315	MOB-I-4	FULTON & MASON			123 SHEETS
FULTON COUNTY, ILL.					



FRAMING PLAN

DESIGNED	JLC
CHECKED	TIBB
DRAWN	R. Doly
CHECKED	JLC TTPB

June 26, 1997
APPROVED
FOR THE ILLINOIS DEPARTMENT OF TRANSPORTATION
BY: [Signature]



19 mm # Granular or solid flux
filled headed studs outboardly
and welded to flange.
(1960 Required - Spans 1 thru 4)

SECTION A-A

Notes: All beams are AASHTO M 270W Grade 345 and shall meet Notch Toughness Requirements.
For remainder of structural steel details see sheet #35 of 123.
For Diaphragm Q₂ see sheet #71 of 123.
Clip end of beams vertical at West Abutment.

STRUCTURAL STEEL
SPANS #1 THRU #4
F.A.P. RT. 315 SECTION MOB-I-4
FULTON AND MASON COUNTIES
STATION 10+646.69

Revised 7-16-97 STD

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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

EXISTING 1997 PLANS
S.N. 063-0002 HAVANA BRIDGE OVER ILLINOIS RIVER

SHEET OF SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
315	(140-B-BR) BP,BRR	FULTON/MASON	163	102
CONTRACT NO. 68F50				
ILLINOIS FED. AID PROJECT				

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

DATE	REVISION	BY	APP'D	DATE
F.A.P. 305	1-14	FULTON & MASON		
100-000000-001				

SHEET NO. 35
(23 SHEETS)

INTERIOR BEAM MOMENT TABLE							
	0.4 Sp. 1	Pier #1	0.5 Sp. 2	Pier #2	0.5 Sp. 3	Pier #3	0.6 Sp. 4
I _s (10 ⁴ mm ⁴)	2780	2780	3100	3100	3100	2780	2780
I _c (in ⁴)	6780	6780	7750	7750	7750	6780	6780
I _c (in ⁴)	4950	4950	5360	5360	5360	4950	4950
S _s (10 ³ mm ³)	6620	6620	7350	7350	7350	6620	6620
S _c (in ³)	9360	9360	10200	10200	10200	9360	9360
S _c (in ³)	8440	8440	9220	9220	9220	8440	8440
Z _s (10 ³ mm ³)							
Z _c (in ³)	9.91	12.26	12.07	12.42	12.07	12.26	9.91
M _E (kN-m)	359	778	353	842	353	778	359
M _L (kN-m)	2.35		2.35		2.35		2.35
M _{SE} (kN-m)	38		111		111		38
M _S (kN-m)	608	400	679	454	679	400	608
M (Imp.) (kN-m)	152	95	155	104	155	95	152
M ₁ (kN-m)	1267	825	1390	930	1390	825	1267
M ₂ (kN-m)	2241	2084	2410	2304	2410	2084	2241
M ₃ (kN-m)							
f _s (non-comp) (MPa)	54	118	48	125	48	118	54
f _s (comp) (MPa)	12		12		12		12
f _s (s ₁) (MPa)	135	125	136	127	136	125	135
f _s (s ₂) (MPa)	201	242	206	241	206	242	201
f _s (Total) (MPa)	262	360	254	372	254	360	262
V _R (kN)	182		190		190		182

INTERIOR BEAM REACTION TABLE					
	W. Abut.	Pier #1	Pier #2	Pier #3	Pier #4
R _E (kN)	106	350	350	350	106
R _L (kN)	134	190	200	190	134
I _{mp} (kN)	33	46	45	46	33
R (Total) (kN)	273	586	605	586	273

I_s and S_s are the moment of inertia and section modulus of the steel section used in computing f_s (Total & Overload).

I_{cs} and S_{cs} are the moment of inertia and section modulus of the composite section used in computing stresses due to Live Load.

I_{csu} and S_{csu} are the moment of inertia and section modulus of the composite section used in computing stresses due to superimposed dead loads. (see AASHTO 10.58)

V_R is the maximum Live Load + Impact shear range in span.

M₀ (Applied Moment) = L₁W_E + W_EF + 1/2 W_LL + M_{imp}

f_s (Overload) is the sum of the stresses due to M_E + M_{SE} + 1/2 W_LL + M_{imp}.

f_s (Total) (Non-compact section) is the sum of the stresses due to 1/3 M_E + M_{SE} + 1/2 W_LL + M_{imp}.

TOP OF BEAM ELEVATIONS

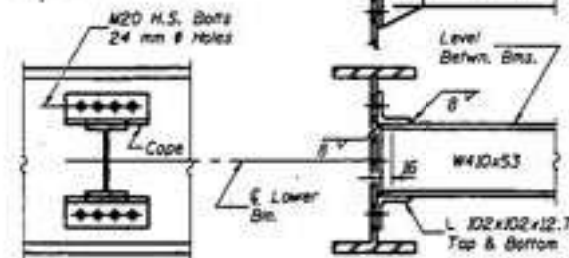
LOCATION	Beam #1	Beam #2	Beam #3	Beam #4	Beam #5	Beam #6
Br. W. Abut.	138.852	138.876	138.901	138.901	138.876	138.852
Br. Pier #1	139.747	139.771	139.796	139.796	139.771	139.747
Splice #1	139.938	139.962	139.987	139.987	139.962	139.938
Br. Pier #2	141.133	141.157	141.182	141.182	141.157	141.133
Splice #2	141.393	141.417	141.442	141.442	141.417	141.393
Splice #3	142.323	142.348	142.372	142.372	142.348	142.323
Br. Pier #3	142.571	142.596	142.620	142.620	142.596	142.571
W. Br. Pier #4	143.735	143.760	143.784	143.784	143.760	143.735

Top of Beam Elevations are given for fabrication only.
** Top of W840x193.

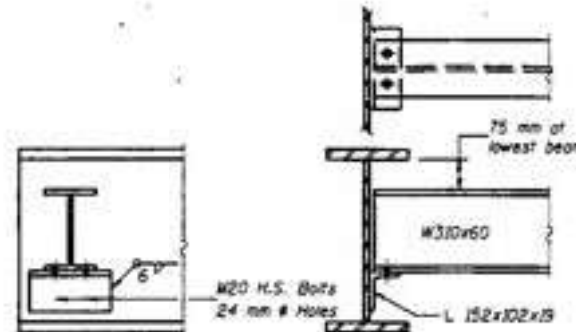
DESIGNED JLC
CHECKED TTB
DRAWN R. Dory
CHECKED JLC TTB

June 26, 1997

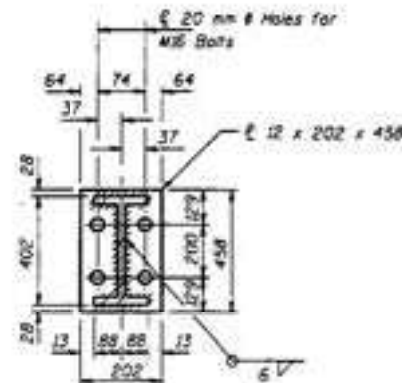
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DRAWN R. Dory



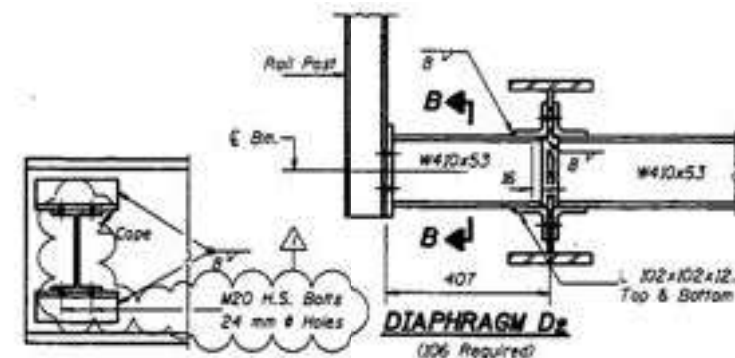
DIAPHRAGM D₁
(157 Required)



DIAPHRAGM D
(10 Required)

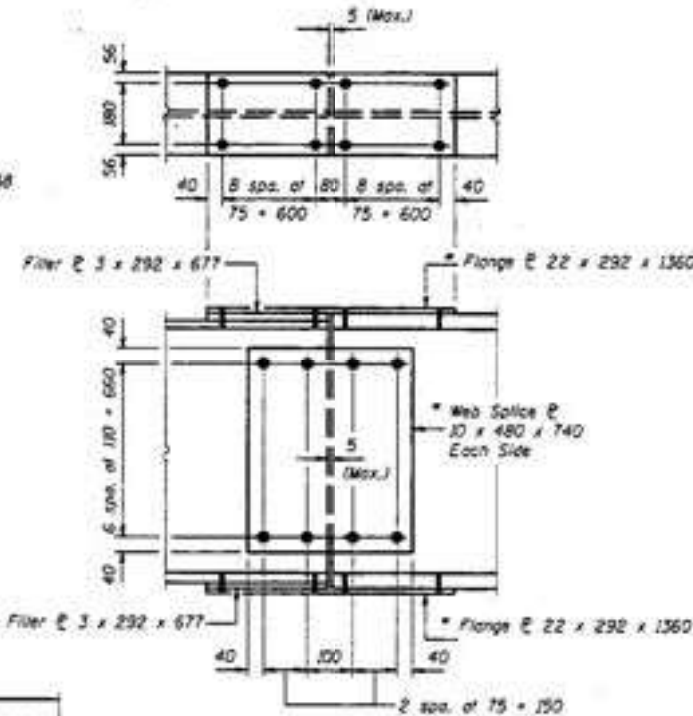


SECTION B-B



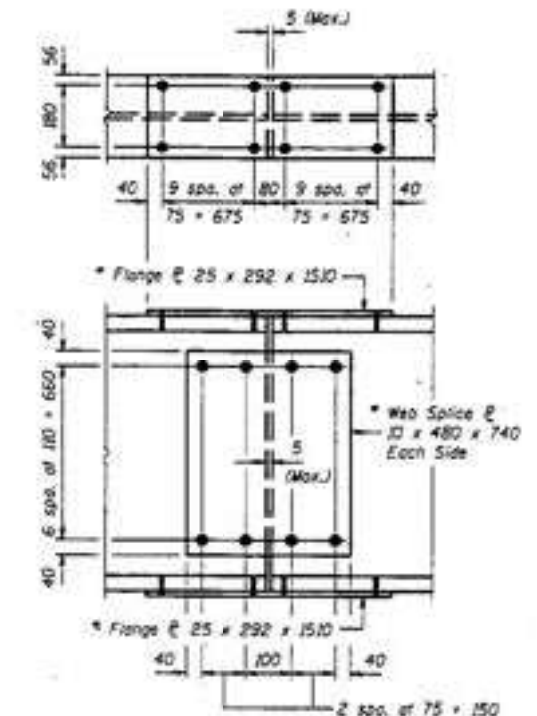
SECTION C-C

Note: Two hardened washers shall be required over all oversized holes.



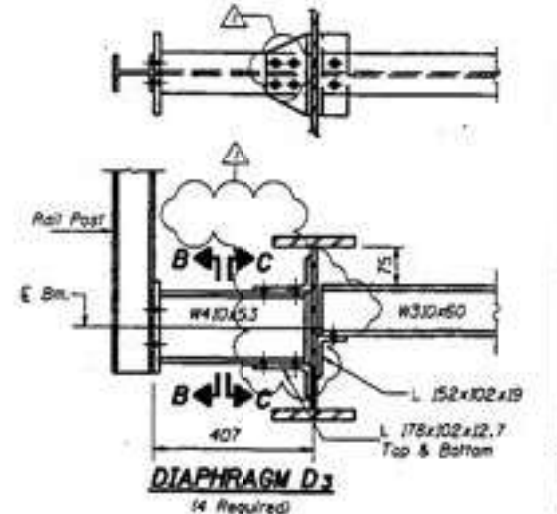
SPLICE #1 AND #3

Use M22 H.S. Bolts
* Indicates splice plates M 270W Grade 345 and plates to which Match Toughness Requirements are applicable.



SPLICE #2

Use M22 H.S. Bolts
* Indicates splice plates M 270W Grade 345 and plates to which Match Toughness Requirements are applicable.



DIAPHRAGM D₂
(14 Required)

STRUCTURAL STEEL DETAILS
SPANS #1 THRU #4
F.A.P. RT. 315 SECTION 1408-I-4
FULTON AND MASON COUNTIES
STATION 10+646.69

Revised 7-16-97 STD

projects\rad00012\0630002a.dgn Jul. 21, 1997 15:27:21

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	CHECKED -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

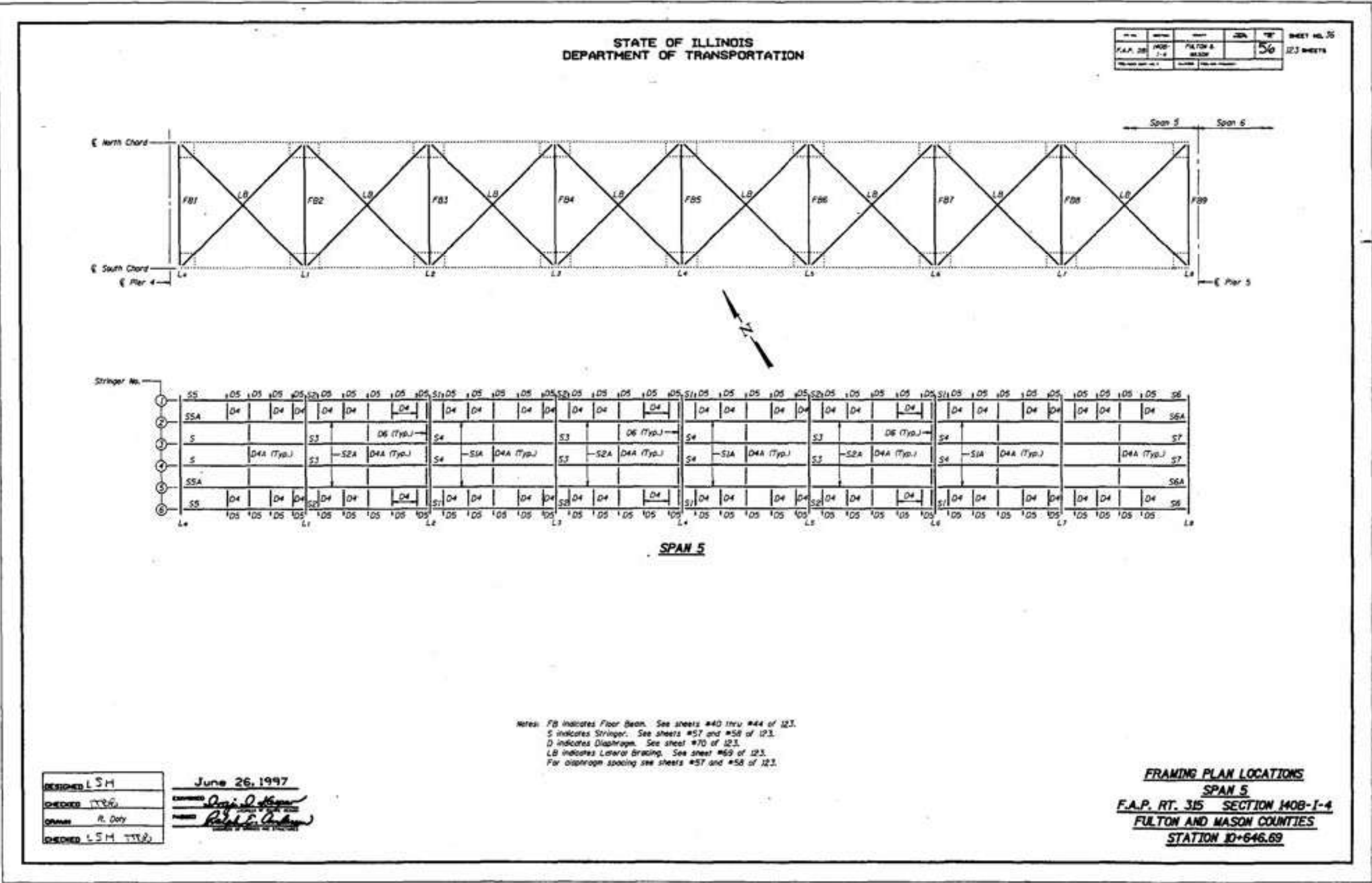
EXISTING 1997 PLANS
S.N. 063-0002 HAVANA BRIDGE OVER ILLINOIS RIVER

SHEET OF SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
315	(140-B-BR) BP,BRR	FULTON/MASON	163	103
			CONTRACT NO. 68F50	

ILLINOIS FED. AID PROJECT

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PLOT DATE =	CHECKED -	REVISED -

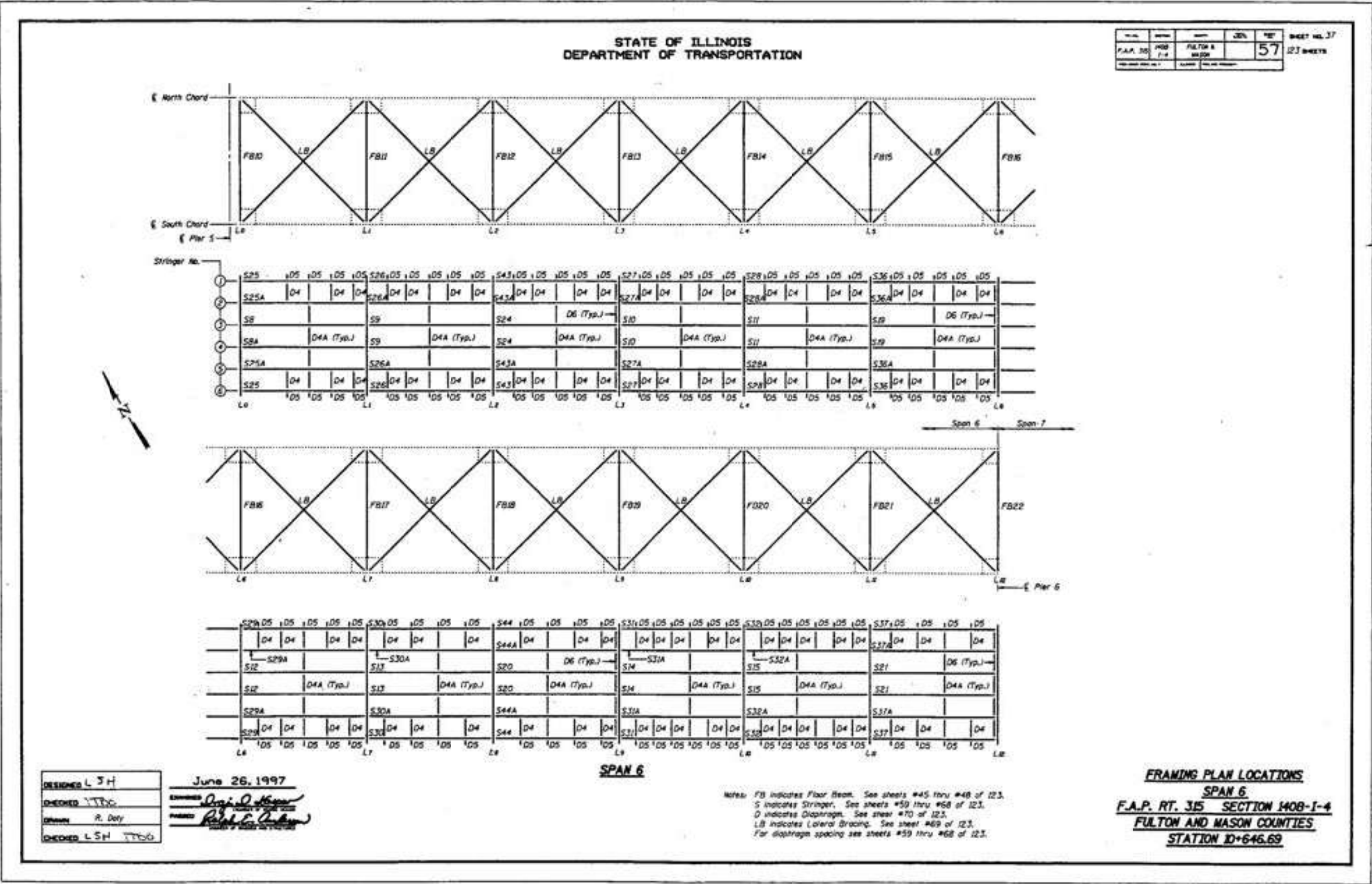
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

EXISTING 1997 PLANS
S.N. 063-0002 HAVANA BRIDGE OVER ILLINOIS RIVER

SHEET OF SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
315	(140-B-BR) BP,BRR	FULTON/MASON	163	104
CONTRACT NO. 68F50				
ILLINOIS FED. AID PROJECT				

MODEL: SP-36
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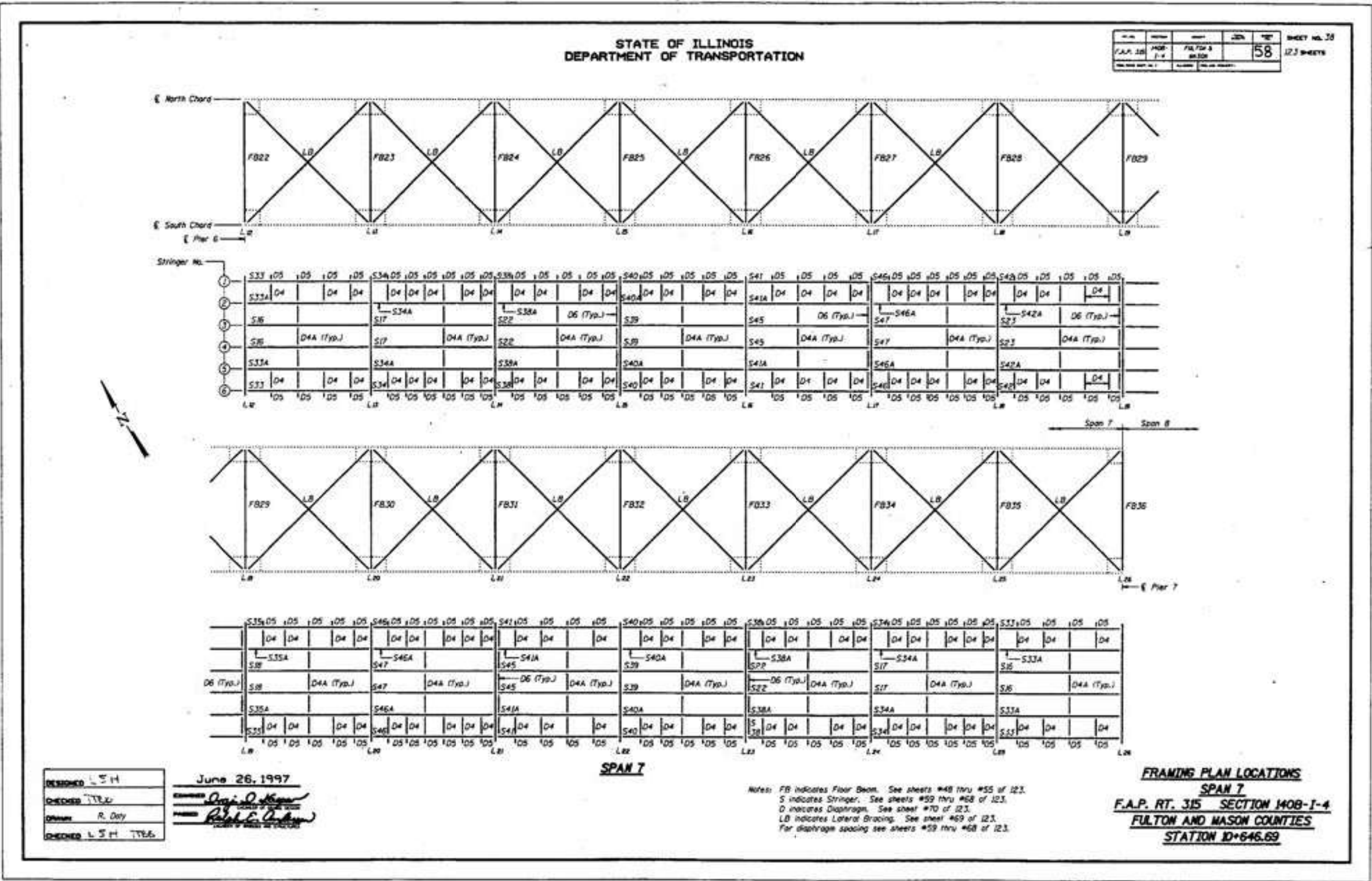
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**EXISTING 1997 PLANS
S.N. 063-0002 HAVANA BRIDGE OVER ILLINOIS RIVER**

SHEET OF SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
315	(140-B-BR) BP,BRR	FULTON/MASON	163	105
CONTRACT NO. 68F50				
ILLINOIS FED. AID PROJECT				

MODEL: SP-37
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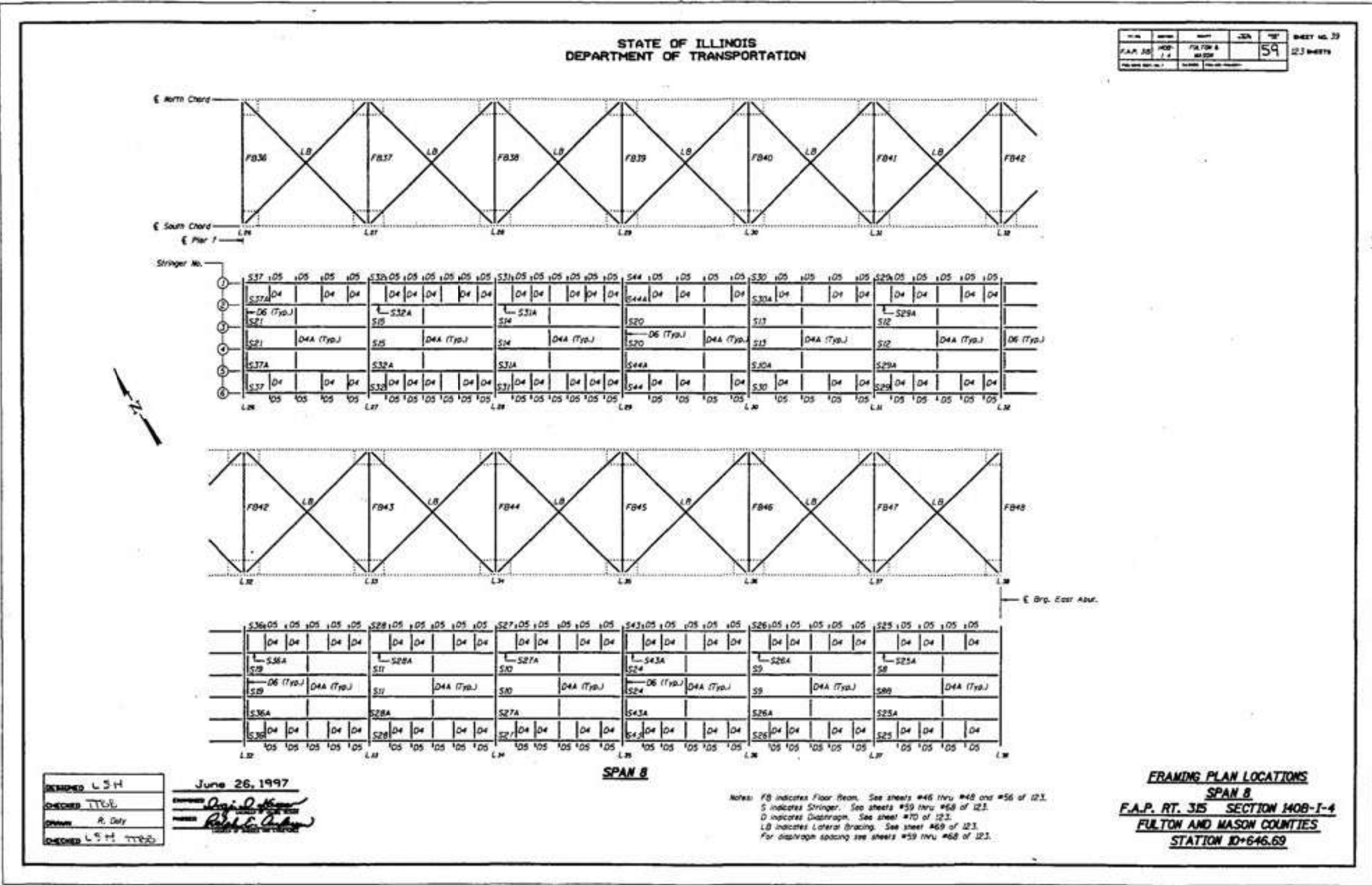
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

EXISTING 1997 PLANS
S.N. 063-0002 HAVANA BRIDGE OVER ILLINOIS RIVER

SHEET OF SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
315	(140-B-BR) BP,BRR	FULTON/MASON	163	106
CONTRACT NO. 68F50				
ILLINOIS FED. AID PROJECT				

MODEL: SP-38
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PLOT DATE =	DRAWN -	REVISED -
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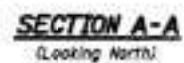
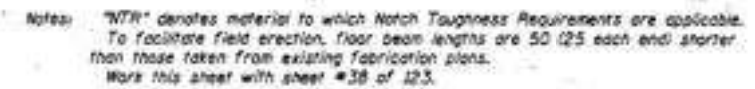
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

EXISTING 1997 PLANS
S.N. 063-0002 HAVANA BRIDGE OVER ILLINOIS RIVER

SHEET OF SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
315	(140-B-BR) BP,BRR	FULTON/MASON	163	107
CONTRACT NO. 68F50				
ILLINOIS FED. AID PROJECT				

SHEET NO.	DATE	DRAWN BY	CHECKED BY	REVISED BY
F.A.P. 205	MAR-7-6	P.L.TON & ASSOC.		
SHEET NO. 40				
123 SHEETS				



FLOOR BEAM DETAILS
SPAN 5
F.A.P. RT. 315 SECTION 140B-I-4
FULTON AND MASON COUNTIES
STATION 10+646.69

Revised 7-16-97 STD

FOR INFORMATION ONLY

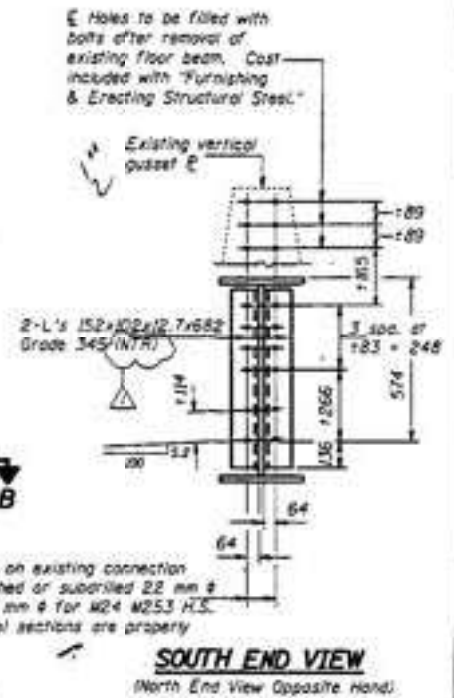
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PLOT DATE =	CHECKED -	REVISED -

EXISTING 1997 PLANS
S.N. 063-0002 HAVANA BRIDGE OVER ILLINOIS RIVER

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
315	(140-B-BR) BP,BRR	FULTON/MASON	163	108
CONTRACT NO. 68F50				
ILLINOIS FEDERAL PROJECT				

DATE: 01/11/2011	SECTION: 05000	PROJECT: 10000	DATE: 01/11/2011	DATE: 01/11/2011
F.A.P. 10	MOB-1-1	FULTON & WATSON		
THE STATE OF CALIFORNIA		COUNTY OF LOS ANGELES	THE CITY OF LOS ANGELES	

SHEET NO. 41
123 SHEETS



6 24 mm Ø holes for M22 H.S. Bolts. Use existing gusset plate as a template to field drill holes.

76 225

76 76

Field drill holes in web of stringer.
(Minimum 38 mm. edge distance).
See shear #44 of 123.

W460x60
Grade 345
(INTR)

62

56

±3 Min. Gap

DETAIL "A"

SPAN 5
F.A.P. RT. 315 SECTION 140B-I-4
FULTON AND MASON COUNTIES
STATION 10+646.69

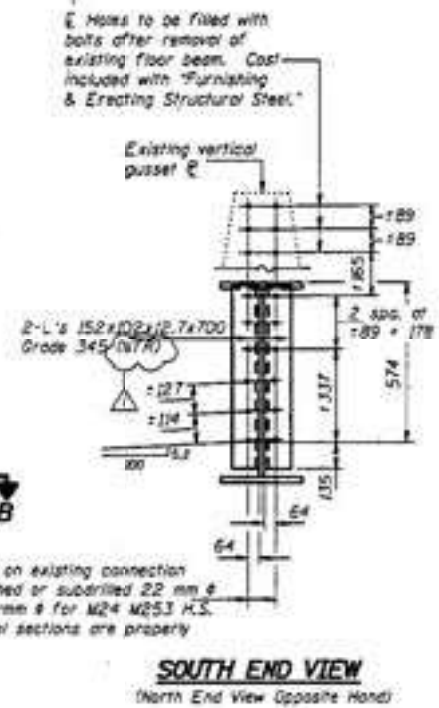
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USER NAME =	DESIGNED -	REVISED -
	CHECKED -	REVISED -
PLOT SCALE =	DRAWN -	REVISED -
PLOT DATE =	CHECKED -	REVISED -

EXISTING 1997 PLANS
S.N. 063-0002 HAVANA BRIDGE OVER ILLINOIS RIVER

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
315	(140-B-BR) BP,BRR	FULTON/MASON	163	109
		CONTRACT NO. 68F50		
		ILLINOIS FEE AID PROJECT		

DATE	SECTION	PROJECT	JOB	REV	SHEET NO. 42
F.A.P. 33	MOB-1-4	FULTON & MASON			123 SHEETS
SHEET NO. 42 OF 123		SHEET NO. 42 OF 123			



Notes: "NTR" denotes material to which Notch Toughness Requirements are applicable.
To facilitate field erection, floor beam lengths are 50 (25 each end) shorter
than those taken from existing fabrication plans.
Work this steel with steel #36 of J23.

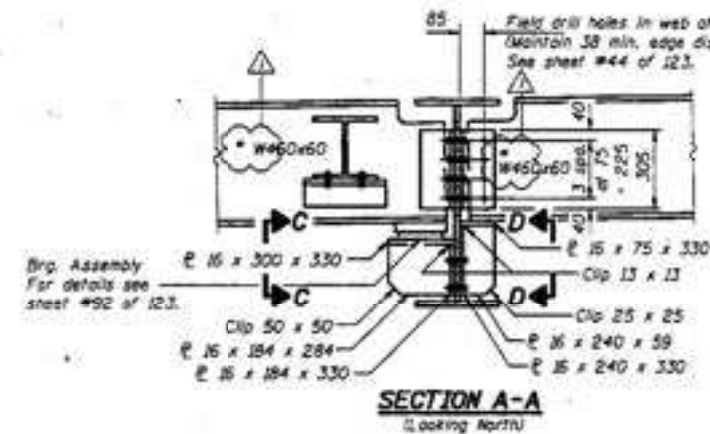


Diagram showing a 30 x 265 Yag Flange welded to a 12 mm E beam. The flange length is 135 mm. The weld is 5 mm thick. The end of the welding is indicated.

Diagram showing the elevation view of a beam section. The beam has a total width of 330 and a total height of 200. The reinforcement details are as follows:

- Top reinforcement: 6 bars, labeled "6 Stringer".
- Bottom reinforcement: 6 bars, labeled "6".
- Vertical spacing: 57 (top), 805 (middle), and 38 (bottom).
- Horizontal spacing: 38 (left), 78 (between first and second bars), 49 (between second and third bars), 49 (between fourth and fifth bars), 78 (between fifth and sixth bars), and 38 (right).
- Reinforcement bars are labeled: 6 ϕ 16 $\times$ 300 $\times$ 330 (top), 6 ϕ 16 $\times$ 184 $\times$ 284 (middle), and 6 ϕ 16 $\times$ 184 $\times$ 330 (bottom).

VIEW C-C
(6 Required Each Floor Beam)

VIEW D-D
(6 Required Each Floor Beam)

FLOOR BEAM DETAILS
SPAN 5
F.A.P. RT. 315 SECTION 140B-I-4
FULTON AND MASON COUNTIES
STATION 10+646.69

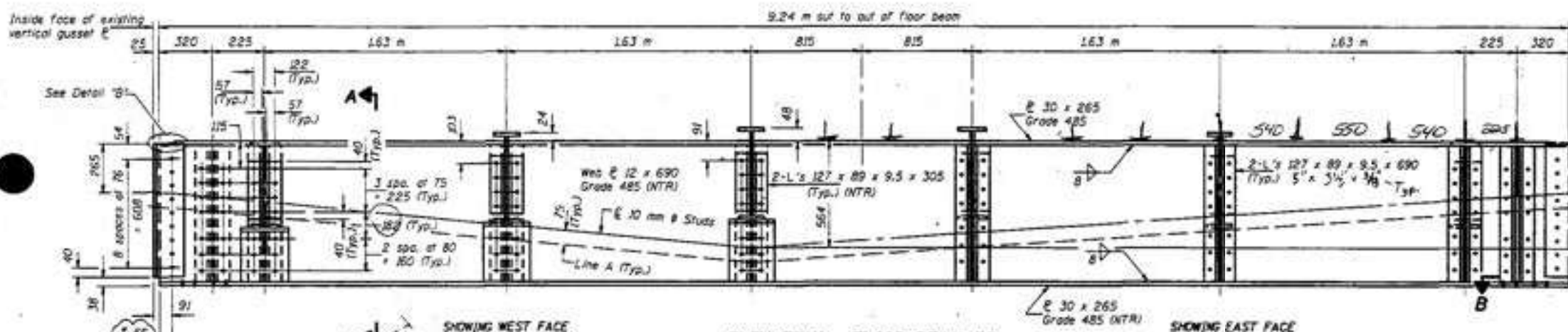
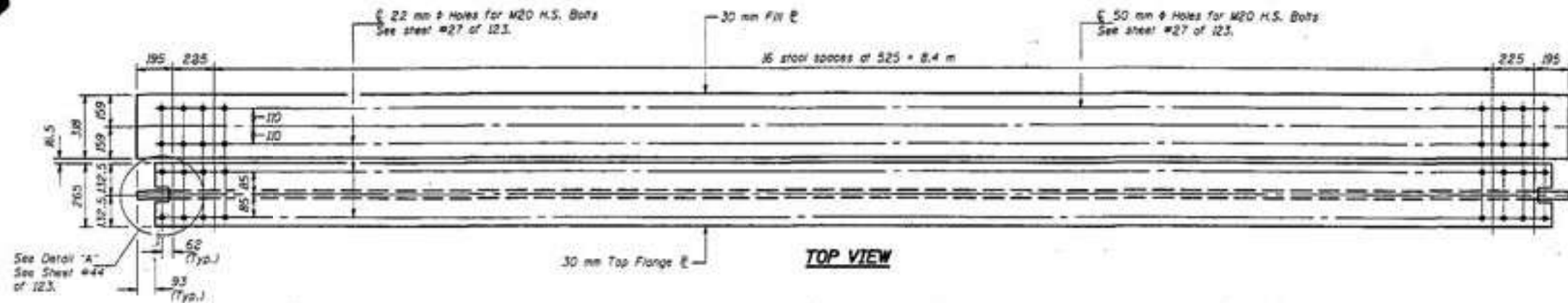
SEARCHED	LSH
SERIALIZED	JLC TTB
INDEXED	R. Dory
FILED	LSH TTB

FOR INFORMATION ONLY

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
315	(140-B-BR) BP,BRR	FULTON/MASON	163	110
CONTRACT NO. 68F50				
	ILLINOIS	FED. AID PROJECT		

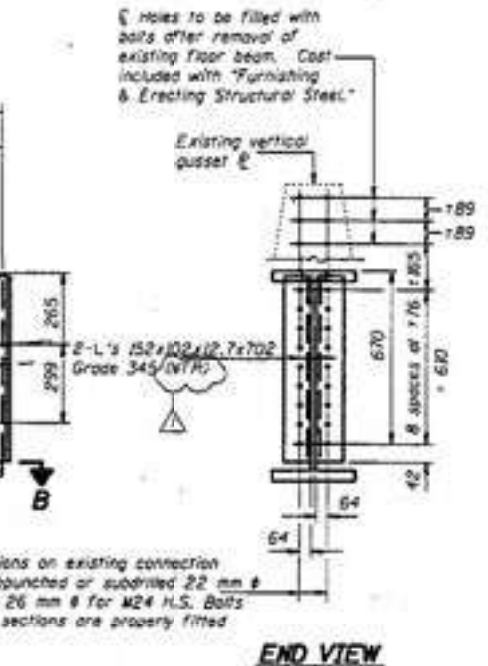
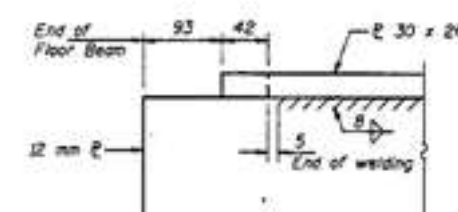
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

DATE	BY	CHKD	APP'D	SHEET NO.
F.A.P. 315	10/21/97	FULTON & MASON		123 SHEETS
FILED	NO. 1	NO. 2	NO. 3	NO. 4



Min. 42 Required.

Holes shall be subpunched or subdrilled 22 mm # in the connection L's and shall be used as a template to drill in the field to 26 mm # for M24 H.S. Bolts after new structural steel sections are properly fitted into position.



After measuring hole locations on existing connection angles. Holes shall be subpunched or subdrilled 22 mm # and reamed in the field to 26 mm # for M24 H.S. Bolts after new structural steel sections are properly fitted into position.

Notes: "NTR" denotes material to which Notch Toughness Requirements are applicable. To facilitate field erection, floor beam lengths are 50 (25 each end) shorter than those taken from existing fabrication plans. Work this sheet with sheets #36 and #44 of 123. For Detail "A" see sheet #44 of 123.

FLOOR BEAM DETAILS
SPAN 5
F.A.P. RT. 315 SECTION 140B-I-4
FULTON AND MASON COUNTIES
STATION 10+646.69

DESIGNED LSH
CHECKED JLC TTB
DRAWN R. Daly
CHECKED LSH TTB

June 26, 1997

DESIGNED [Signature]
CHECKED [Signature]
DRAWN [Signature]
CHECKED [Signature]

Revised 7-16-97 STD

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PLOT DATE =	DRAWN -	REVISED -
	CHECKED -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

EXISTING 1997 PLANS
S.N. 063-0002 HAVANA BRIDGE OVER ILLINOIS RIVER

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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				CONTRACT NO. 68F50
				ILLINOIS FED. AID PROJECT

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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PROJECT NO.	SECTION	DATE	BY	CHKD	SHEET NO. 44
F.A.P. 315	1408	7-16	FULTON & MASON		123 SHEETS
DESIGNED BY	DRAWN BY	CHECKED BY	APPROVED BY		

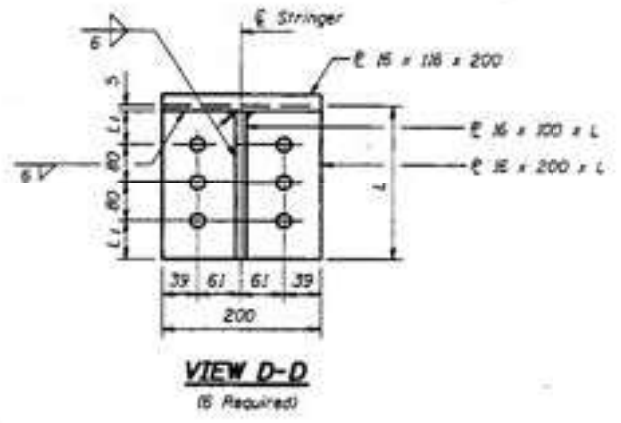
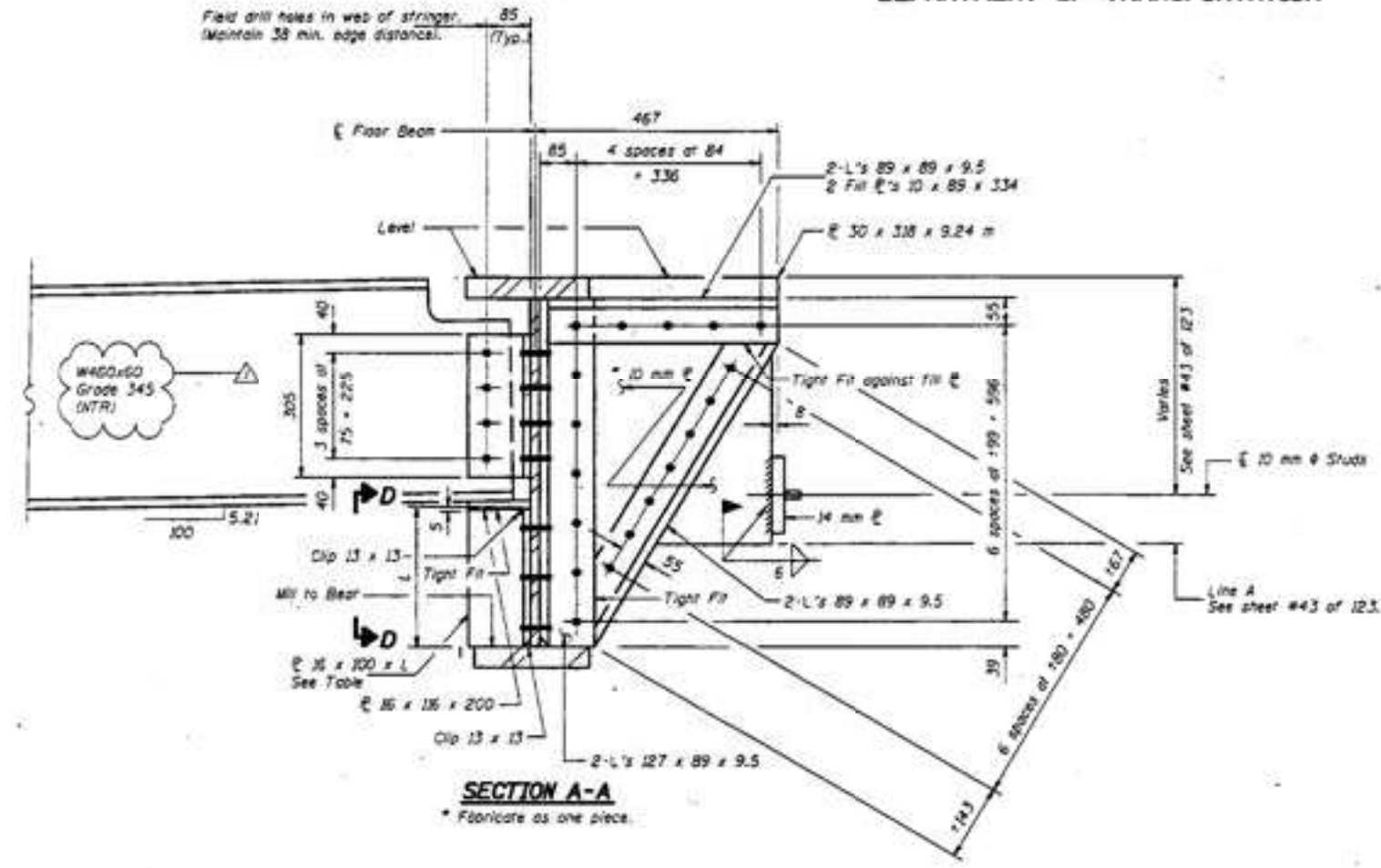
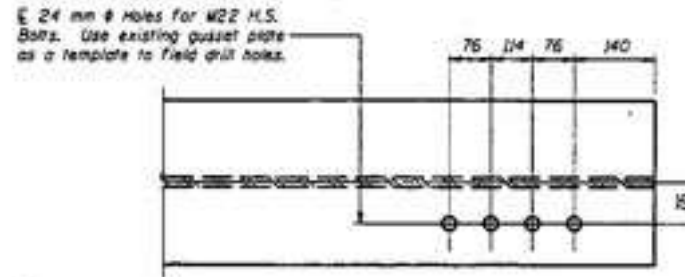
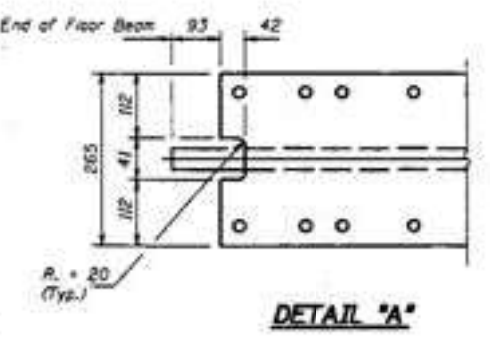


TABLE OF L & L₁ DIMENSIONS

Location	L (mm)	L ₁ (mm)
Exterior Stringer	249	48
1st Interior Stringer	273	54
Interior Stringer	297	66



SECTION B-B
(Typical Each End)

FLOOR BEAM #9 DETAILS
SPAN 5
F.A.P. RT. 315 SECTION 1408-1-4
FULTON AND MASON COUNTIES
STATION 10+646.69

DESIGNED	LSH
CHECKED	LSH
DRAWN	R. Dory
CHECKED	LSH

June 26, 1997
APPROVED
FULTON & MASON

Revised 7-16-97 STD

FOR INFORMATION ONLY

MODEL: SP-43
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PLOT DATE =	DRAWN -	REVISED -
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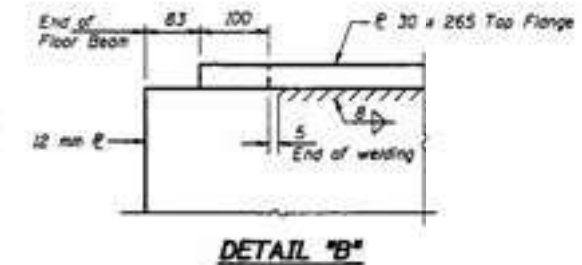
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

EXISTING 1997 PLANS
S.N. 063-0002 HAVANA BRIDGE OVER ILLINOIS RIVER

SHEET OF SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
315	(140-B-BR) BP,BRR	FULTON/MASON	163	112
CONTRACT NO. 68F50				
ILLINOIS FED. AID PROJECT				

PLATE NO.	SECTION	DATE	TIME	SHEET NO. 45
P.A.P. 35	NO. 1-4	FULTON & WILSON		123 SHEETS
PLATE NO. 35	SECTION	DATE	TIME	

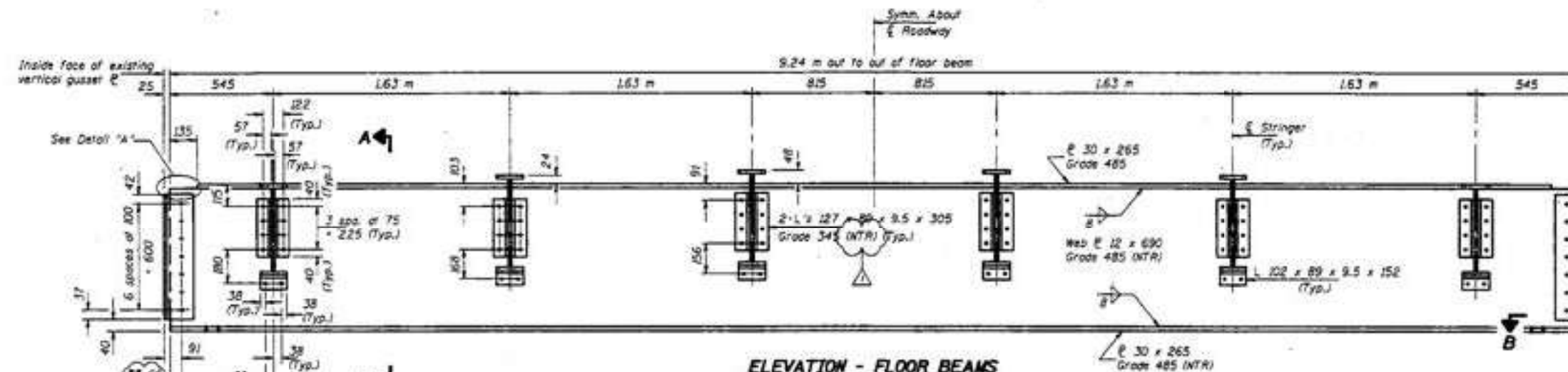


Revised 7-16-97 STD

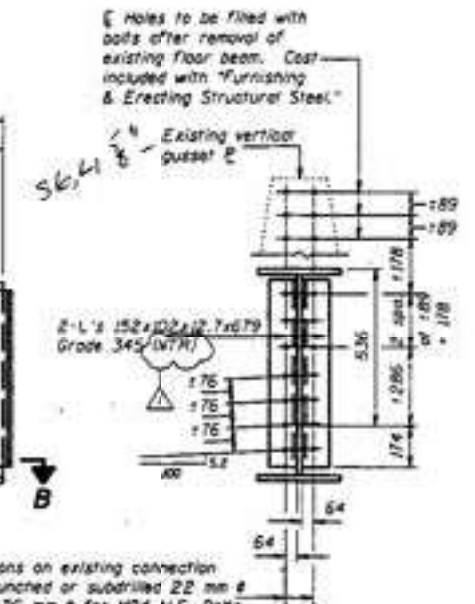
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315	(140-B-BR) BP,BRR	FULTON/MASON	163	113
		CONTRACT NO. 68F50		
		ILLINOIS	FED. AID PROJECT	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

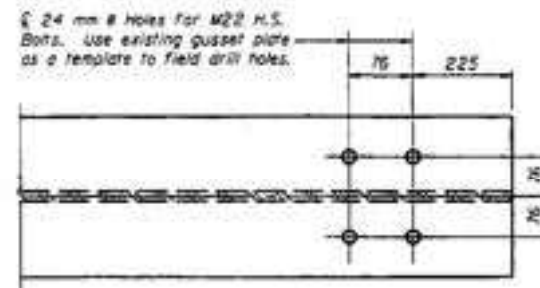
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F.A.P. 315	MOB	JUL	FULTON & MASON	123 SHEETS
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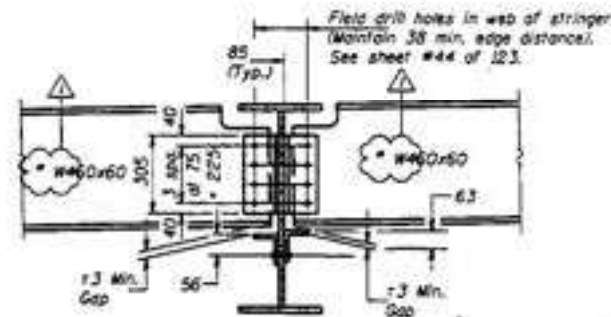
ELEVATION - FLOOR BEAMS
*11, *12, *14, *15, *17, *18, *20 & *21
AT L₁, L₂, L₃, L₄, L₅, L₆, L₇ & L₈ (SPAN 6)
ELEVATION - FLOOR BEAMS
*37, *38, *40, *41, *43, *44, *46 & *47
AT L₁₇, L₁₈, L₁₉, L₂₀, L₂₁, L₂₂, L₂₃ & L₂₄ (SPAN 8)
(15-Required)



SOUTH END VIEW - SPAN 6
North End View Opposite Hand
NORTH END VIEW - SPAN 8
South End View Opposite Hand

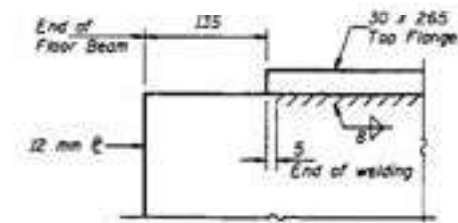


SECTION B-B
Typical Each End



SECTION A-A
Looking North - Span 6
Looking South - Span 8

Notes: "NTR" denotes material to which Notch Toughness Requirements are applicable.
To facilitate field erection, floor beam lengths are 50 (25 each end) shorter than those taken from existing fabrication plans.
Work this sheet with sheets #37 and #39 of 123.



DETAIL "A"

FLOOR BEAM DETAILS
SPANS 6 AND 8
F.A.P. RT. 315 SECTION MOB-I-4
FULTON AND MASON COUNTIES
STATION 10+646.69

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PLOT SCALE =	DRAWN -	REVISED -
PLOT DATE =	CHECKED -	REVISED -

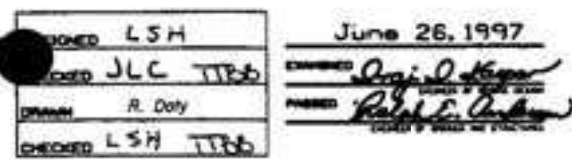
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

EXISTING 1997 PLANS
S.N. 063-0002 HAVANA BRIDGE OVER ILLINOIS RIVER

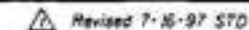
SHEET OF SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
315	(140-B-BR) BP,BRR	FULTON/MASON	163	114
				CONTRACT NO. 68F50
				ILLINOIS FED. AID PROJECT

PLATE NO.	SECTION	DETAIL	DATE	BY	SHEET NO. 47
F.A.P. 10	MOB- 1-4	FLUSH & GARDEN			
PLATE NO. 10		SECTION	DATE AND REVISION		123 SHEETS



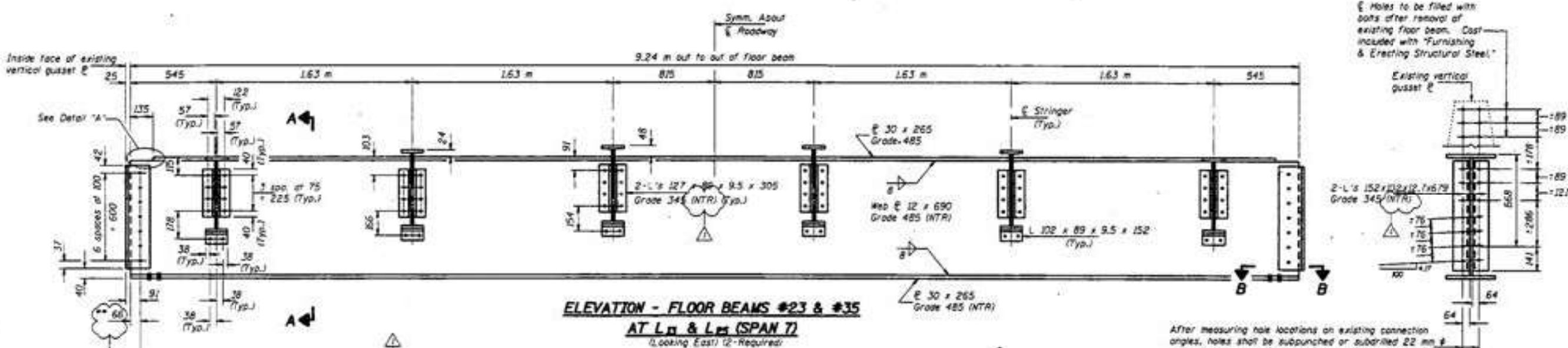
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F.A.P. 35	NO. 14	FLATON & WALTON			
FILLING: 100% 1		ALUMINUM	FILLING: 100% 1		



F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
315	(140-B-R) BP,BRR	FULTON/MASON	163	116
CONTRACT NO. 68F50				
	ILLINOIS	FED. AID PROJECT		

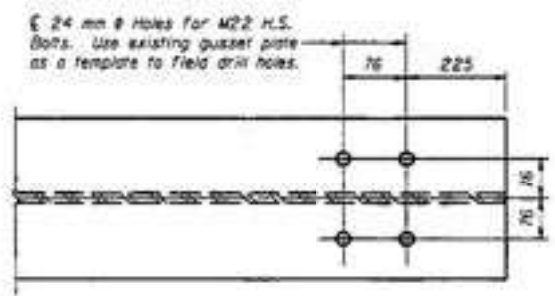
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PROJECT NO.	SECTION	SHEET	DATE	BY	REVISION
F.A.P. 315	140B-1-4	FULTON & MASON			
SHEET NO. 49					
12.3 SHEETS					

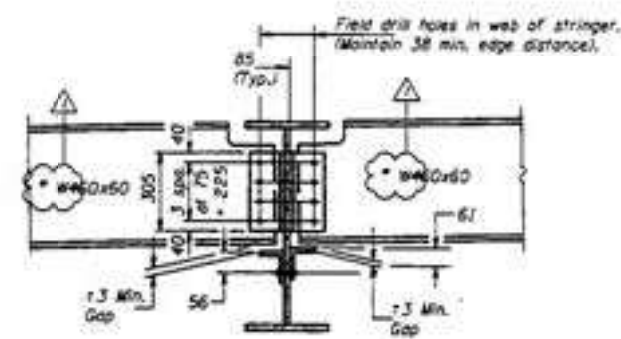


ELEVATION - FLOOR BEAMS #23 & #35
AT L₁ & L₂ (SPAN 7)
Looking East (2-Required)

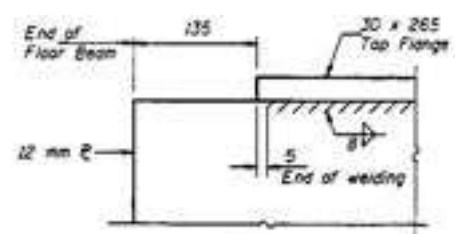
SOUTH END VIEW - L₁
North End View Opposite Hand
NORTH END VIEW - L₂
South End View Opposite Hand



SECTION B-B
Typical Each End



SECTION A-A
Looking North - L₁
Looking South - L₂



DETAIL "A"

Notes: "NTR" denotes material to which Notch Toughness Requirements are applicable. To facilitate field erection, floor beam lengths are 50 (25 each end) shorter than those taken from existing fabrication plans. Work this sheet with sheet #38 of 12.3.

FLOOR BEAM DETAILS
SPAN 7
F.A.P. RT. 315 SECTION 140B-1-4
FULTON AND MASON COUNTIES
STATION 10+646.69

DESIGNED	LSH	DATE	June 26, 1997
CHECKED	JLC TTB	APPROVED	<i>[Signature]</i>
DRAWN	R. Dory	PAIRED	<i>[Signature]</i>
CHECKED	LSH TTB		

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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

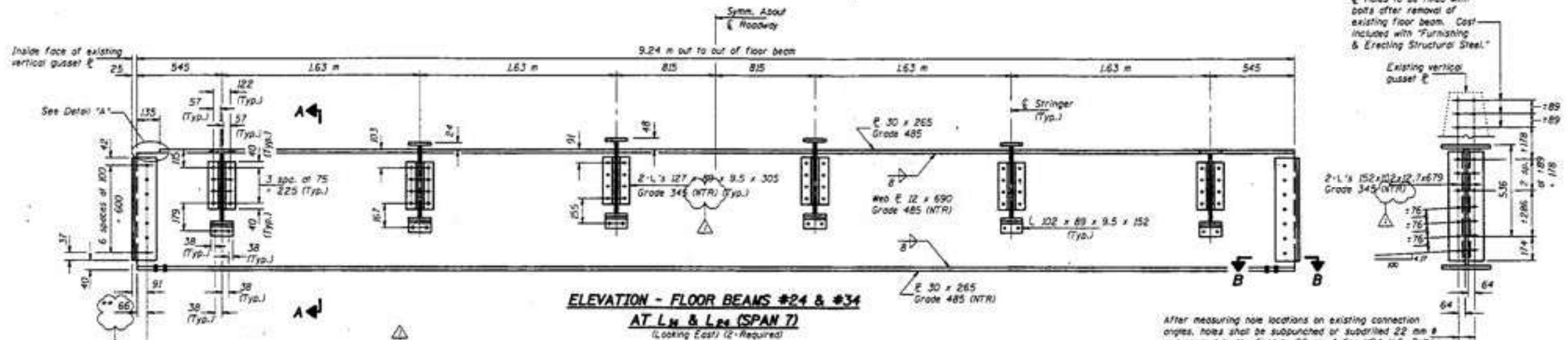
EXISTING 1997 PLANS
S.N. 063-0002 HAVANA BRIDGE OVER ILLINOIS RIVER

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
315	(140B-BR) BP,BRR	FULTON/MASON	163	117
				CONTRACT NO. 68F50
ILLINOIS FED. AID PROJECT				

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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

DATE	REVISION	BY	APP'D	TEST	SHEET NO. 50
F.A.P. 35	MOB-I-4	FULTON & MASON			123 SHEETS
FULTON AND MASON COUNTIES					

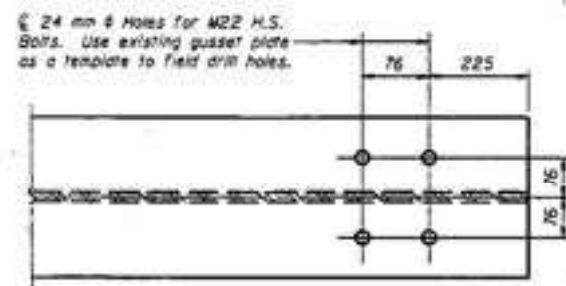


ELEVATION - FLOOR BEAMS #24 & #34
AT L_m & L_m+ (SPAN 7)
(Looking East) (2-Required)

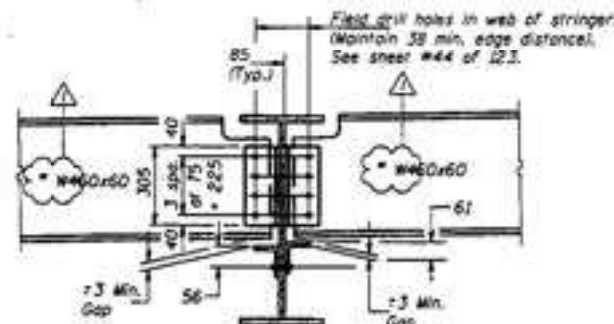
SOUTH END VIEW - L_m
North End View Opposite Hand
NORTH END VIEW - L_m
South End View Opposite Hand

After measuring hole locations on existing connection angles, holes shall be subpunched or subdrilled 22 mm ϕ and reamed in the field to 26 mm ϕ for M24 H.S. Bolts after new structural steel sections are properly fitted into position.

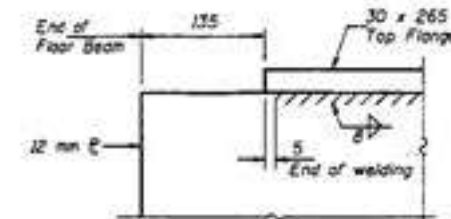
Notes: "NTR" denotes material to which notch Toughness Requirements are applicable. To facilitate field erection, floor beam lengths are 50 (25 each end) shorter than those taken from existing fabrication plans. Work this sheet with sheet #38 of 123.



SECTION B-B
(Typical Each End)



SECTION A-A
Looking North - L_m
Looking South - L_m+



DETAIL "A"

FLOOR BEAM DETAILS
SPAN 7
F.A.P. RT. 315 SECTION MOB-I-4
FULTON AND MASON COUNTIES
STATION 10+646.69

DESIGNED	LSH	DATE	June 26, 1997
CHECKED	JLC TTB	APPROVED	<i>[Signature]</i>
DRAWN	R. Dory	DESIGNED BY	<i>[Signature]</i>
CHECKED	LSH TTB	DESIGNED BY	<i>[Signature]</i>

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PLOT DATE =	CHECKED -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

EXISTING 1997 PLANS
S.N. 063-0002 HAVANA BRIDGE OVER ILLINOIS RIVER

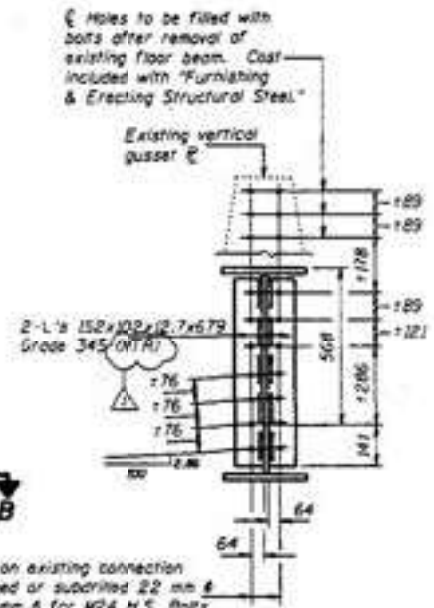
SHEET OF SHEETS

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CONTRACT NO. 68F50				
ILLINOIS FED. AID PROJECT				

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DATE REC.	RECEIVED	BY	DATE	TIME
F.A.P. 15	MOD-3-4	FULTON & WILSON		
FILL THIS OUT FIRST		FILL THIS OUT LAST		

SHEET NO. 51
123 SHEETS

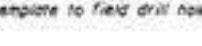


After measuring hole locations on existing connection angles, holes shall be subpunched or subdrilled 22 mm ϕ and reamed in the field to 26 mm ϕ for M24 H.S. Bolts after new structural steel sections are properly fitted into position.

of L.B.
North End View Opposite Pond

of 1.23
South End View Opposite Head

2. Drill 4 holes for #12 rod. Bore. Use existing gusset plate as a template to field drill holes.



The diagram shows a rectangular gusset plate with a width of 76 inches and a height of 143 inches. There are four holes, two on each side, spaced 76 inches apart horizontally and 143 inches apart vertically. The holes are located 76 inches from the left and right edges and 143 inches from the top and bottom edges.

Field drill holes in web of beam 38 min. edge of web. See sheet #44 of I23.

Brg. Assembly For details see sheet #92 of I23.

Dimensions and components shown:

- Top flange plate: E 16 x 300 x 330
- Column flange: E 16 x 184 x 284
- Bottom flange plate: E 16 x 300 x 330
- Clip: Clip 50 x 50
- Bolt: Bolt 16 x 240 x 59
- Nut: Nut 16 x 240 x 330

Looking North of L_{25} (Span 7)
Looking South of L_{23} (Span 7)

Diagram illustrating the connection details of a beam to a column. The connection shows the end of the floor beam (175 mm) and the top flange (30 x 265). The web thickness is 12 mm, and the end of welding is indicated by a 5 mm dimension.

15 Required Each Floor Beam

(5 Required Each Floor Beam)

SPAN 7

F.A.P. RT. 315 SECTION 1408-I-4
FULTON AND MASON COUNTIES
STATION 10+646.69

Revised 7-16-97 STD

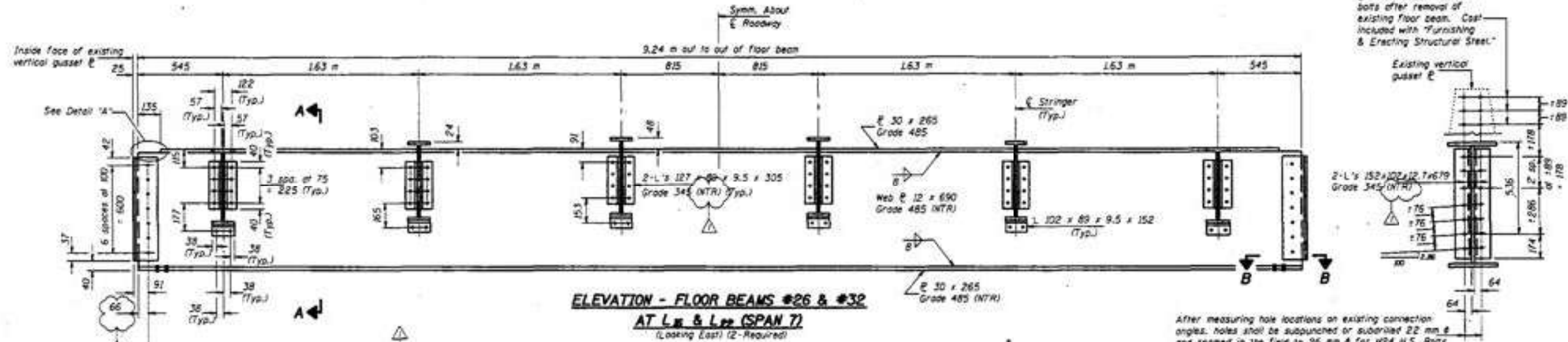
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USER NAME =	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	EXISTING 1997 PLANS S.N. 063-0002 HAVANA BRIDGE OVER ILLINOIS RIVER	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
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PLOT SCALE =	DRAWN -	REVISED -			CONTRACT NO. 68F50					
PLOT DATE =	CHECKED -	REVISED -								
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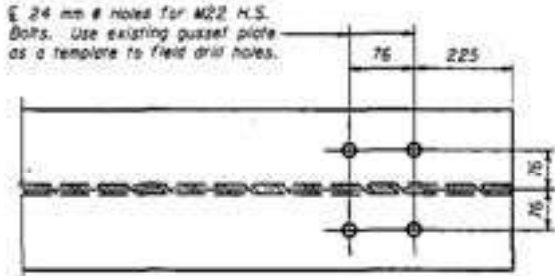
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

DATE	BY	CHKD	APPD	REV	SHEET NO.
F.A.P. 35	MOB-1-4	FULTON & MASON			123 SHEETS
NO. 100-100-1					

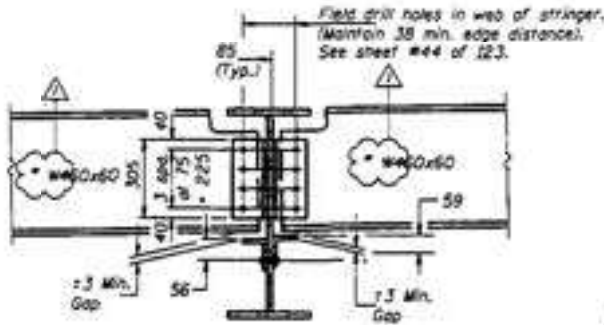


ELEVATION - FLOOR BEAMS #26 & #32
AT L₁ & L₂ (SPAN 7)
(Looking East) (2-Required)

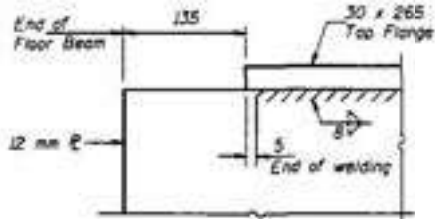
SOUTH END VIEW - L₁
North End View Opposite Hand
NORTH END VIEW - L₂
South End View Opposite Hand



SECTION B-B
(Typical Each End)



SECTION A-A
Looking North - L₁
Looking South - L₂



DETAIL "A"

FLOOR BEAM DETAILS
SPAN 7
F.A.P. RT. 315 SECTION 140B-1-4
FULTON AND MASON COUNTIES
STATION 10+646.69

Notes: "NTR" denotes material to which notch Toughness Requirements are applicable. To facilitate field erection, floor beam lengths are 50 (25 each end) shorter than those taken from existing fabrication plans. Work this sheet with sheet #38 of 123.

Revised 7-16-97 STD

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

EXISTING 1997 PLANS
S.N. 063-0002 HAVANA BRIDGE OVER ILLINOIS RIVER

SHEET OF SHEETS

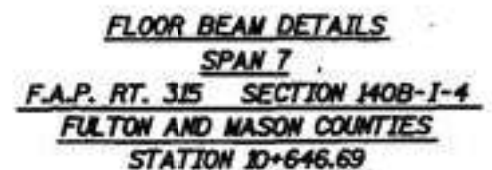
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CONTRACT NO. 68F50				
ILLINOIS FED. AID PROJECT				

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PROJECTS\rad00012\0630002b.dgn Jul. 21, 1997 15:33:12

DESIGNED LSH	USER NAME =	DESIGNED -	REVISED -
CHECKED JLC TTB	CHECKED -	CHECKED -	REVISED -
DRAWN R. Doly	PLOT SCALE =	DRAWN -	REVISED -
CHECKED LSH TTB	PLOT DATE =	CHECKED -	REVISED -

DATE TO: 1-1-80	DATE: 1-1-80	DATE: 1-1-80	DATE: 1-1-80
F.A.R. 1-1-80	1-1-80	1-1-80	1-1-80
1-1-80	1-1-80	1-1-80	1-1-80

1-1-80



SEARCHED	LSH	INDEXED	JLC TTB
SERIALIZED	R. Dery	FILED	LSH TTB

June 26, 1997

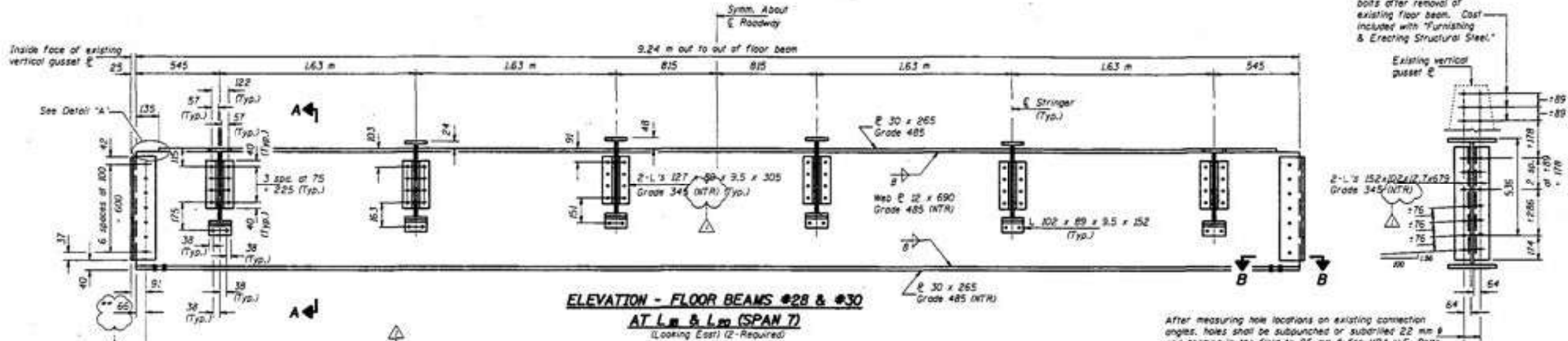
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FOR INFORMATION ONLY

USER NAME =	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	EXISTING 1997 PLANS S.N. 063-0002 HAVANA BRIDGE OVER ILLINOIS RIVER	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
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PLOT SCALE =	DRAWN -	REVISED -			CONTRACT NO. 68F50					
PLOT DATE =	CHECKED -	REVISED -			SHEET OF SHEETS					
					ILLINOIS FED. AID PROJECT					

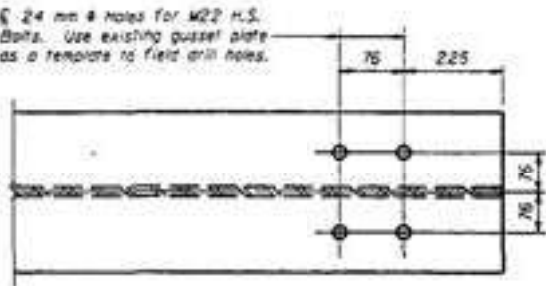
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

DATE	REVISION	BY	APP.	NO.	SHEET NO. 54
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NO. 063-0002	HA	HA	HA	HA	

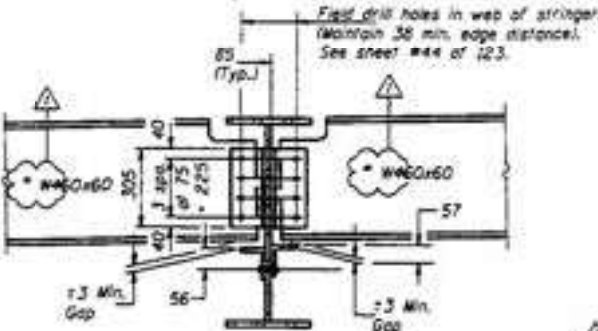


SOUTH END VIEW - Lm
North End View Opposite Hand
NORTH END VIEW - Lm
South End View Opposite Hand

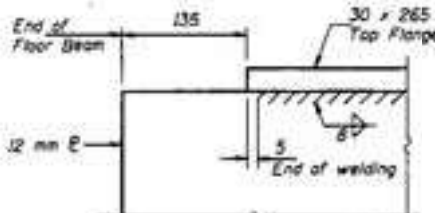
Notes: "NTR" denotes material to which Notch Toughness Requirements are applicable.
To facilitate field erection, floor beam lengths are 50 (25 each end) shorter than those taken from existing fabrication plans.
Work this sheet with sheet #38 of 123.



SECTION B-B
(Typical Each End)



SECTION A-A
Looking North - Lm
Looking South - Lm



DETAIL "A"

FLOOR BEAM DETAILS
SPAN 7
F.A.P. RT. 315 SECTION MOB-I-4
FULTON AND MASON COUNTIES
STATION 10+646.69

Revised 7-16-97 STD

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PLOT SCALE =	CHECKED -	REVISED -
PLOT DATE =	DRAWN -	REVISED -
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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

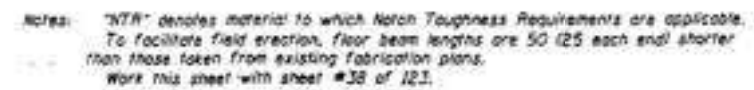
EXISTING 1997 PLANS
S.N. 063-0002 HAVANA BRIDGE OVER ILLINOIS RIVER

SHEET OF SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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CONTRACT NO. 68F50				
ILLINOIS FED. AID PROJECT				

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PROJECT NO.	DISTRICT	CITY	STATE	SHEET NO. 55
F.A.P. 35	MOB-1-4	FULTON & MASON		123 SHEETS
THIS DRAWING IS OF:		DATE AND PROJECT:		



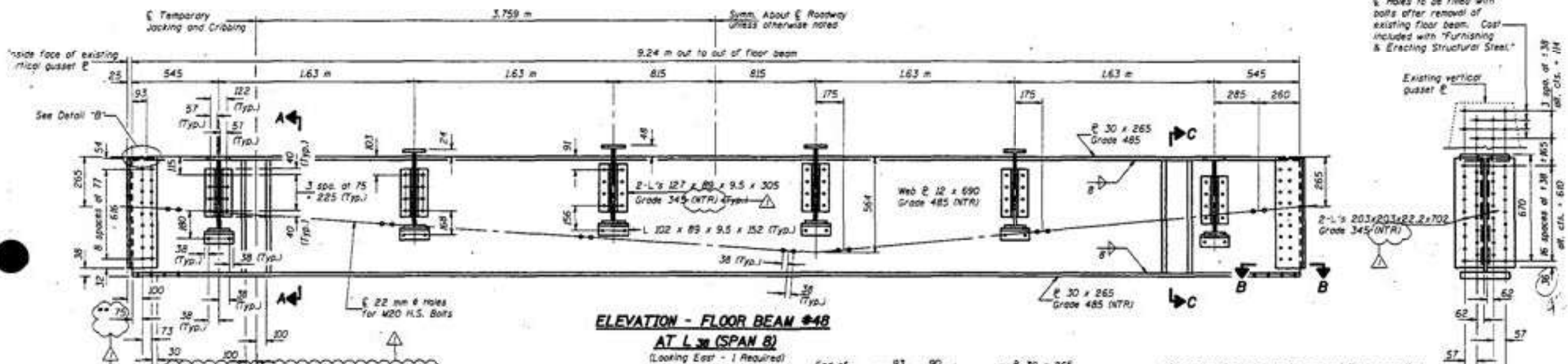
Revised 7-16-97 STD

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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		CONTRACT NO. 68F50		
	ILLINOIS	FED. AID PROJECT		

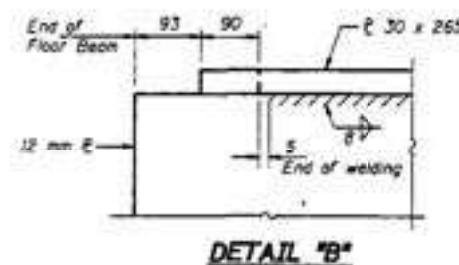
SHEET OF SHEETS

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	CHECKED -	REVISED -
PLOT SCALE =	DRAWN -	REVISED -
PLOT DATE =	CHECKED -	REVISED -

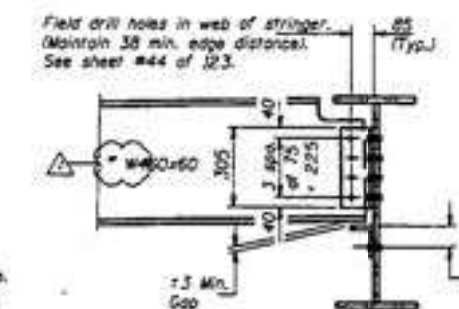
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NO. 101		NO. 101	



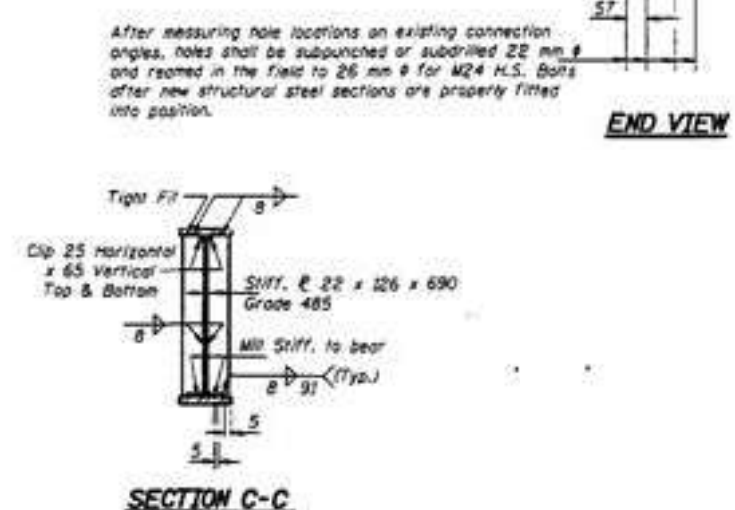
ELEVATION - FLOOR BEAM #48
AT L 30 (SPAN 8)
(Looking East - 1 Required)



DETAIL "B"



SECTION A-A



END VIEW

FLOOR BEAM DETAILS
SPAN 8
F.A.P. RT. 315 SECTION 140B-I-4
FULTON AND MASON COUNTIES
STATION 10+646.69

Revised 7-16-97 STD

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EXISTING 1997 PLANS
S.N. 063-0002 HAVANA BRIDGE OVER ILLINOIS RIVER

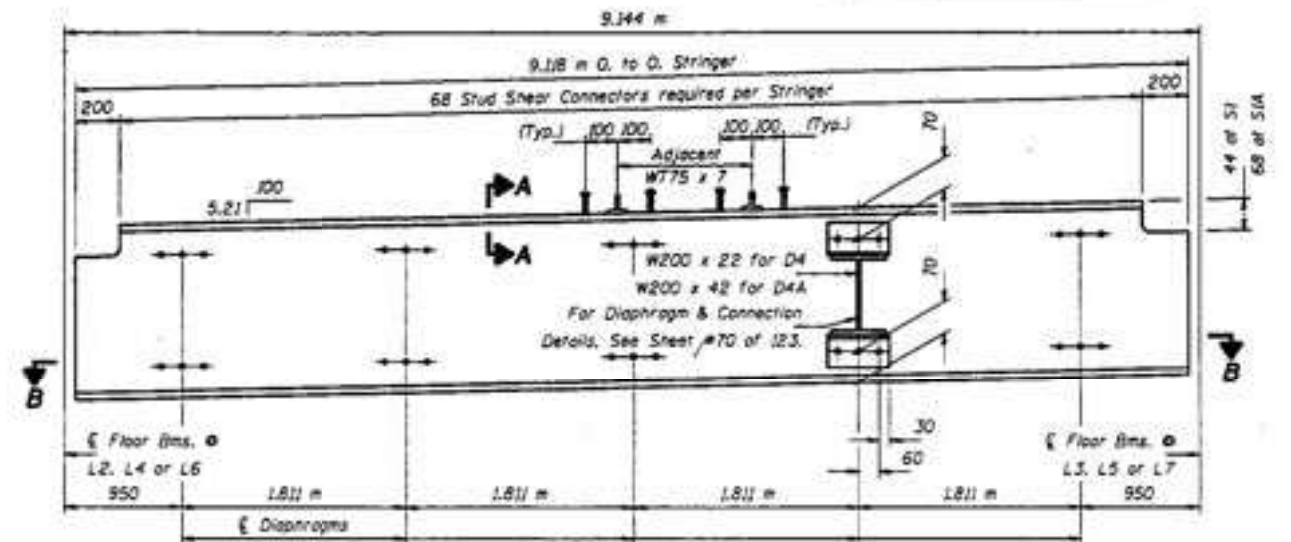
SHEET OF SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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CONTRACT NO. 68F50				
	ILLINOIS	FEED AID PROJECT		

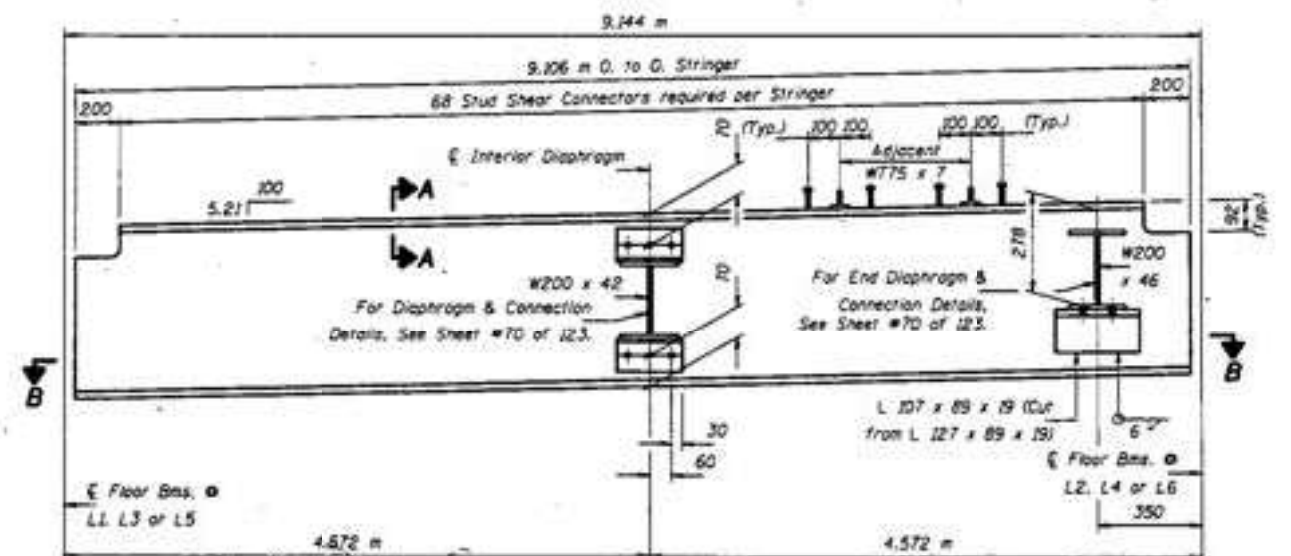
FOR INFORMATION ONLY

ILLINOIS	FED. AID PROJECT
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DATE IN	REVISED	BY	DATE	SHEET NO. 57
F.A.P. 30	MOD-1-4	FULTON & MASON		123 SHEETS
THIS SHEET CONTAINS:				



STRINGER SI & SIA - SPAN #5
W460 x 60 (NTR)
Qty. Required = 6 for SI & 6 for SIA)



STRINGER S3 - SPAN #5
Plans. W460 x 60 (INTR)
(No. Required = 6)

STRINGER DETAILS
F.A.P. RT. 315 SEC. 140B-1-4
FULTON AND MASON COUNTIES
STA. 10+645.69

Revised 7-26-97 STD

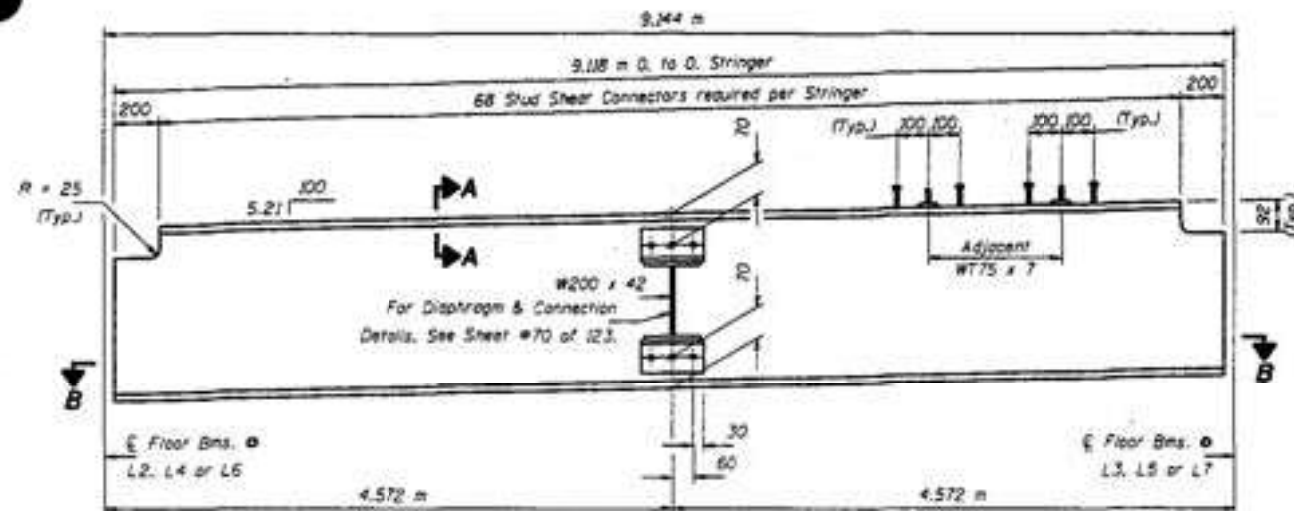
FOR INFORMATION ONLY

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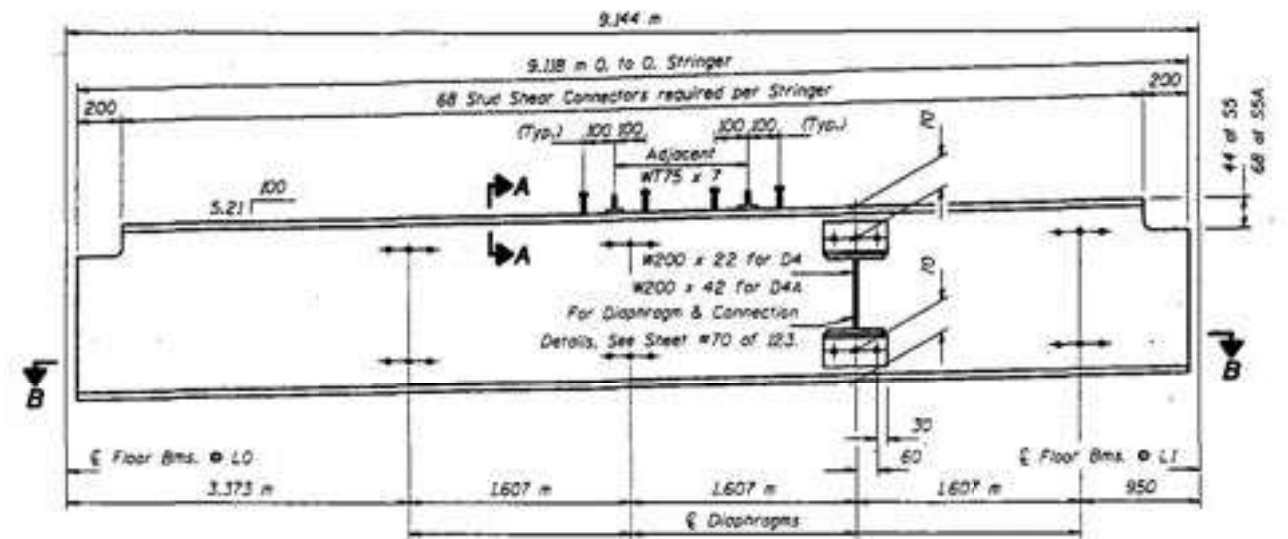
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ILLINOIS	FED. AID PROJECT	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

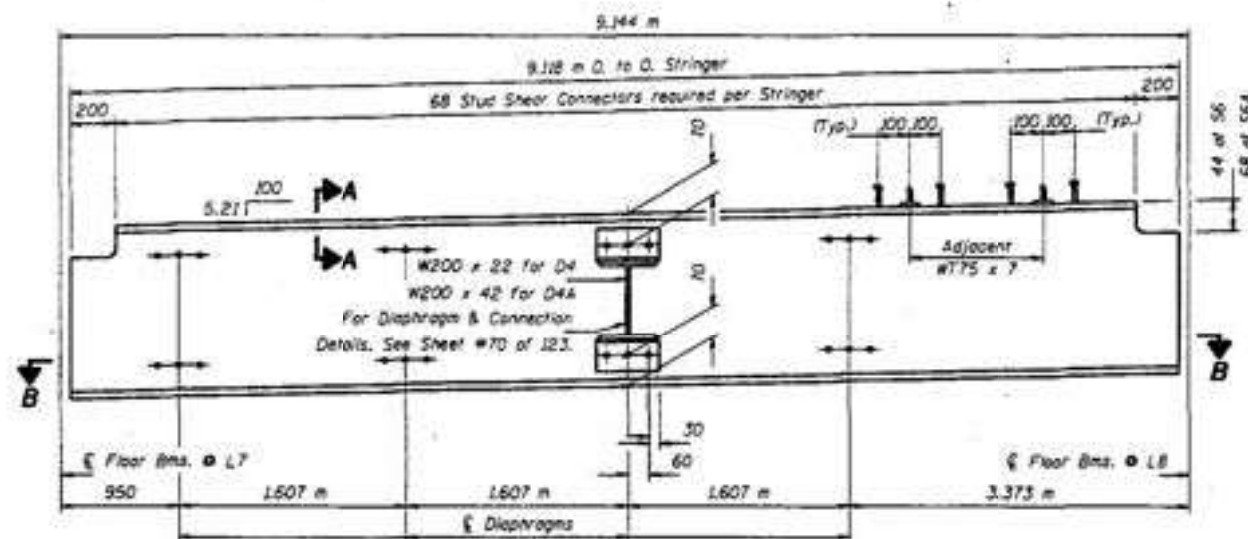
DATE	BY	CHKD	APP'D	SHEET NO.
F.A.P. 315	MOB	FULTON & MASON		123 SHEETS



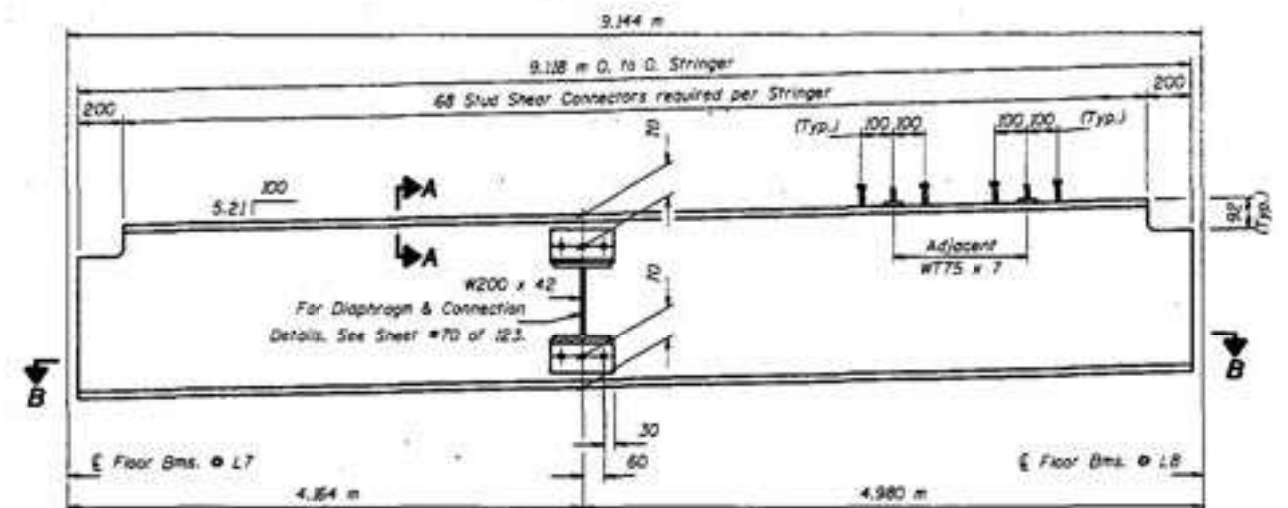
STRINGER S4 - SPAN #5
W450 x 60 (NTR)
(No. Required = 61)



STRINGER S5 & S5A - SPAN #5
W450 x 60 (NTR)
(No. Required = 2 for S5 & 2 for S5A)



STRINGER S6 & S6A - SPAN #5
W450 x 60 (NTR)
(No. Required = 2 for S6 & 2 for S6A)



STRINGER S7 - SPAN #5
W450 x 60 (NTR)
(No. Required = 2)

Notes: For Sections A-A & B-B see sheet #69 of 123.
To facilitate field erection, stringer lengths are shorter than those taken from existing Fabrication Plans.
"NTR" denotes members to which Notch Toughness Requirements are applicable.
Hardened washers shall be required over all 24 mm holes.
All holes in the ends of the Stringer Webs shall be field drilled for end connections. See Floor Beam sheets #40 thru #44 of 123 for details. All other holes are shop drilled.
For Stringer locations see sheet #36 of 123.
Position Stringers S4, S5, S6 & S7 to maintain equal clearances from faces of floor beam webs at both ends.
After grid deck is installed on the Stringer, install stud shear connectors as shown. Place adjacent Stud Shear Connectors at 100 mm on Section A-A, see sheet #69 of 123.
Stringers shall be AASHTO M270M Grade 345.

STRINGER DETAILS
F.A.P. RT. 315 SEC. 140B-I-4
FULTON AND MASON COUNTIES
STA. 10+646.69

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USER NAME =	DESIGNED -	REVISED -
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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

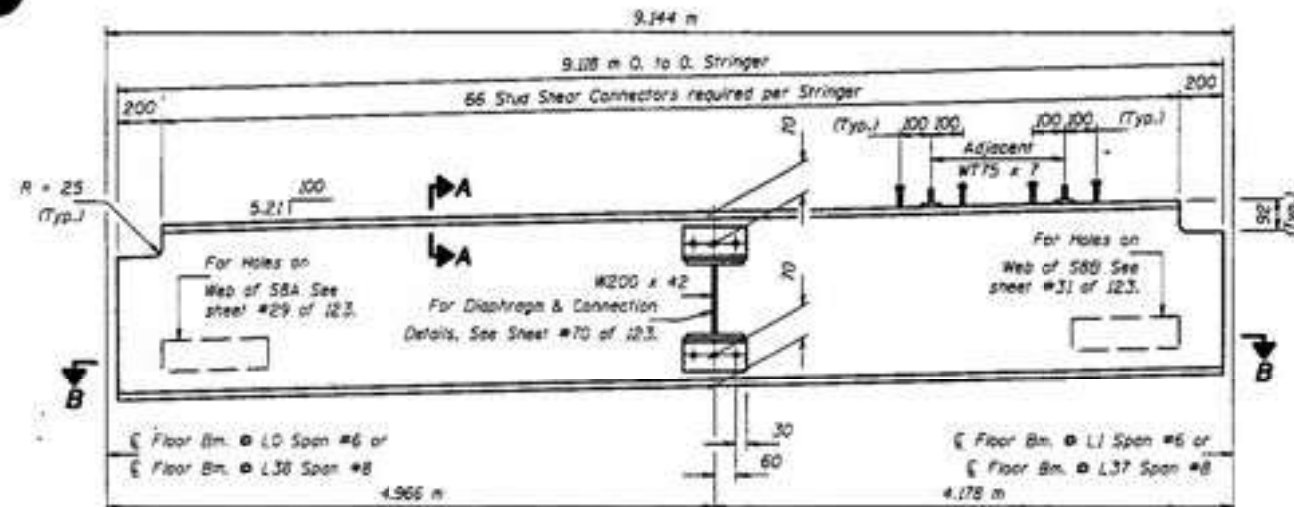
EXISTING 1997 PLANS
S.N. 063-0002 HAVANA BRIDGE OVER ILLINOIS RIVER

SHEET OF SHEETS

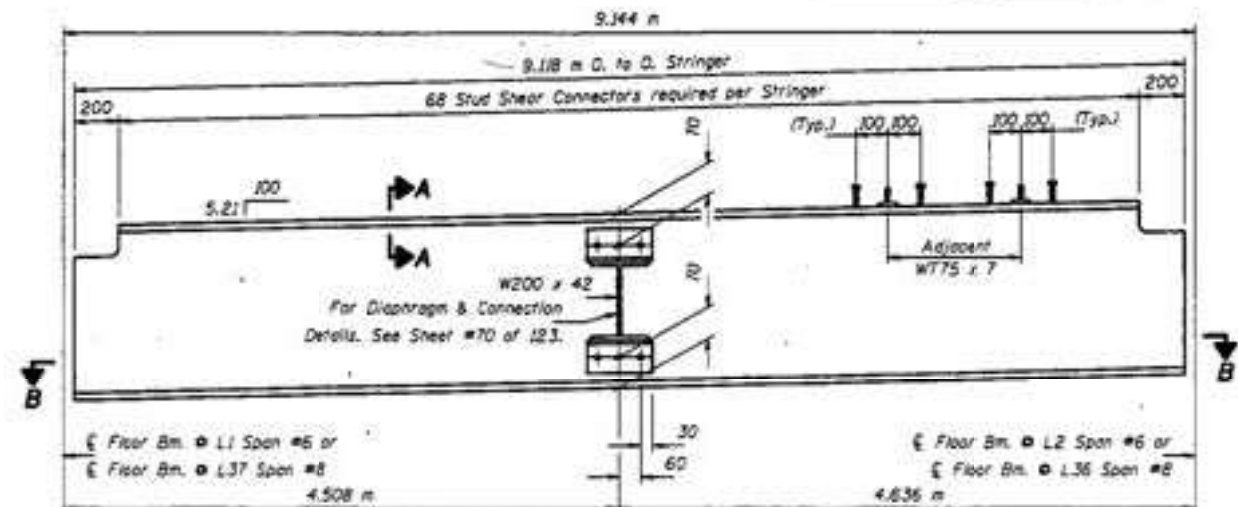
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CONTRACT NO. 68F50				
ILLINOIS FED. AID PROJECT				

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

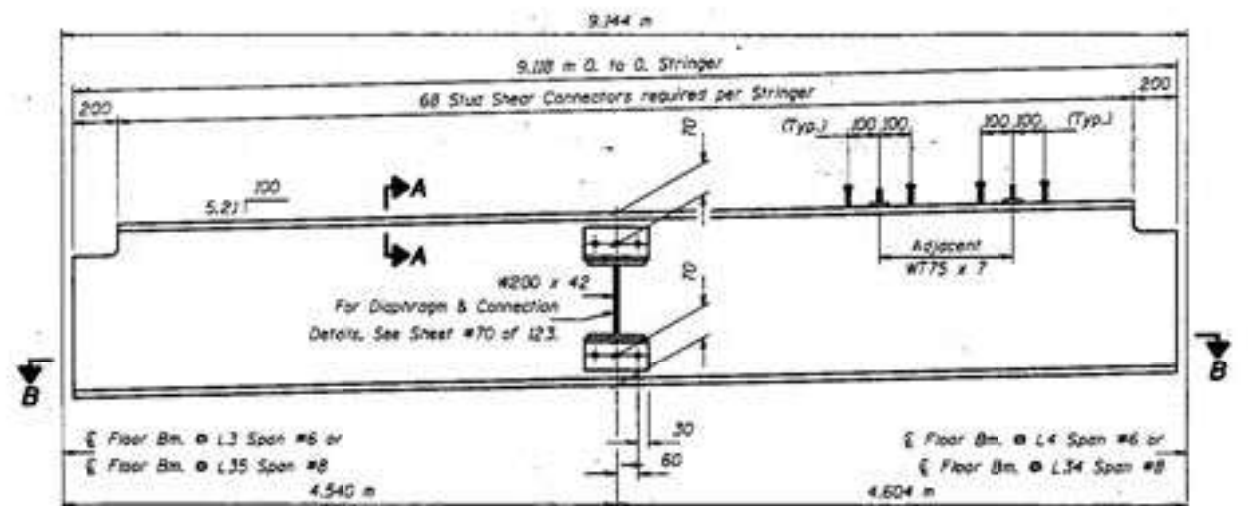
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F.A.P. 35	140B-1-4	FULTON & MASON	123 SHEETS
DATE	DATE	DATE	DATE



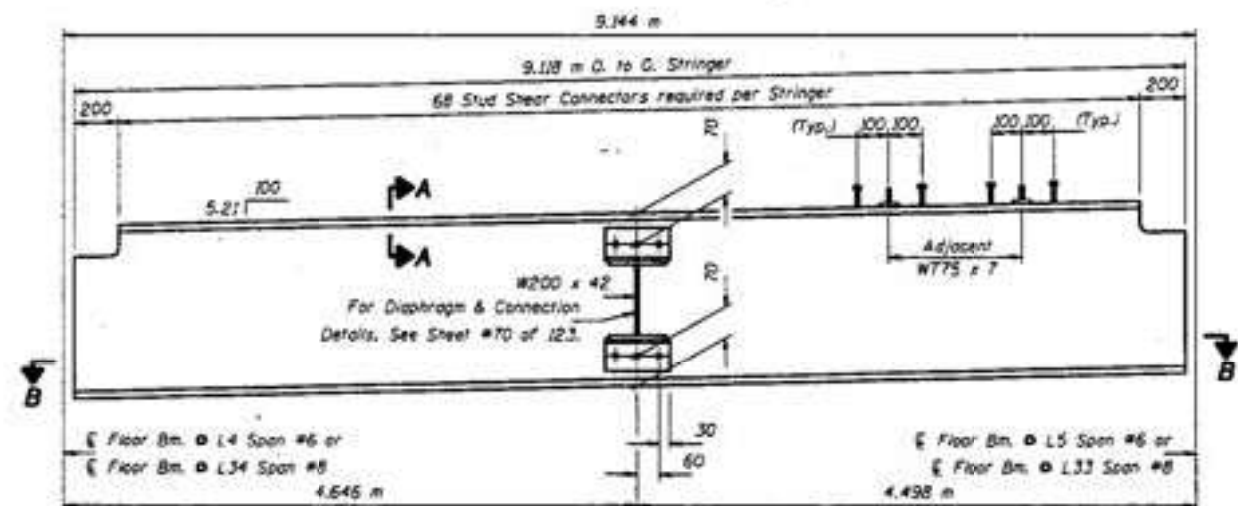
STRINGER S8, S8A & S8B - SPAN #6 & #8
W460 x 60 INTR
(No. Required = 2 for S8, 1 for S8A & 1 for S8B)



STRINGER S9 - SPAN #6 & #8
W460 x 60 INTR
(No. Required = 4)



STRINGER S10 - SPAN #6 & #8
W460 x 60 INTR
(No. Required = 4)



STRINGER S11 - SPAN #6 & #8
W460 x 60 INTR
(No. Required = 4)

Notes: For Sections A-A & B-B see sheet #69 of 123.
To facilitate field erection, stringer lengths are shorter than those taken from existing Fabrication Plans.
"INTR" denotes members to which Hatch Toughness Requirements are applicable.
Hardened washers shall be required over all 24 mm # holes.
All holes in the ends of the Stringer Webs shall be field drilled for end connections. See Floor Beam sheets #45 thru #48 & #56 of 123 for details. All other holes are shop drilled.
For Stringer locations see sheets #37 & #39 of 123.
Position Stringers S8, S9, S10 & S11 to maintain equal clearances from faces of floor beam webs at both ends.
After grid deck is installed on the Stringer, install stud shear connectors as shown. Place adjacent Stud Shear Connectors alternately as shown on Section A-A, see sheet #69 of 123.
Stringers shall be AASHTO M270W Grade 345.

STRINGER DETAILS
F.A.P. RT. 35 SEC. 140B-1-4
FULTON AND MASON COUNTIES
STA. 10+646.69

Revised 7-16-97 STD

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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

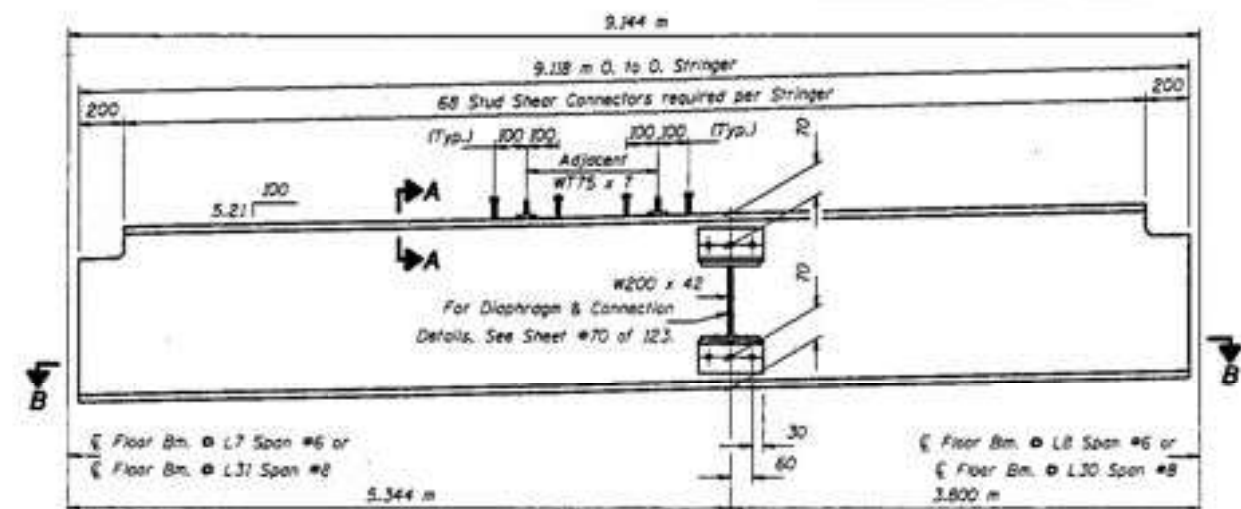
EXISTING 1997 PLANS
S.N. 063-0002 HAVANA BRIDGE OVER ILLINOIS RIVER

SHEET OF SHEETS

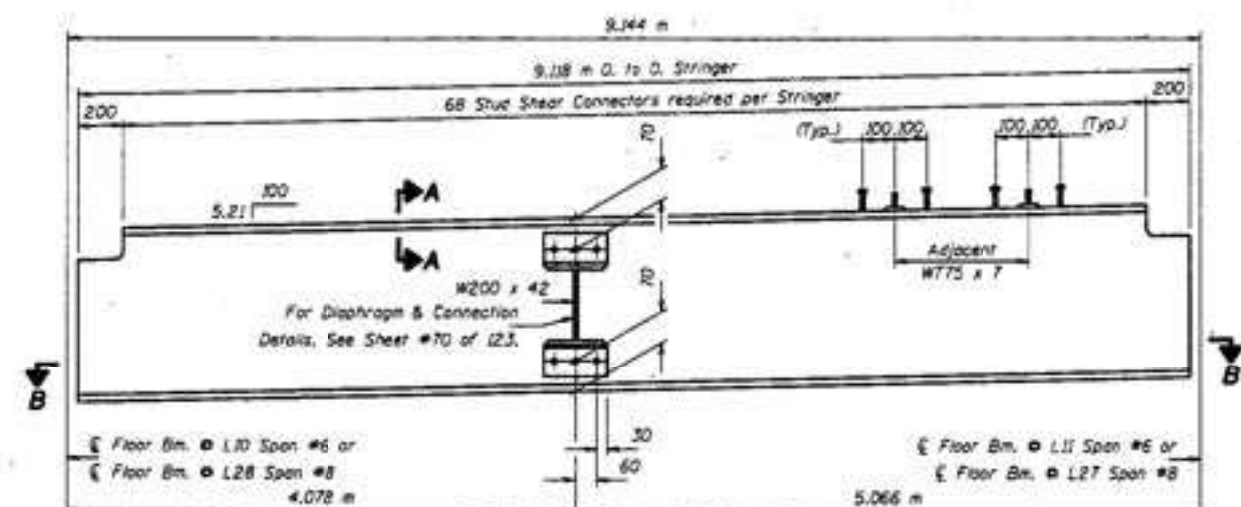
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CONTRACT NO. 68F50				
ILLINOIS FED. AID PROJECT				

DATE: 10/1/80	SECTION: 1000	PROJECT: 1000	DESIGN: 1000	1000
F.A.P. 315	MOD-114	FILTON & SONS		
F.A.P. 315		F.A.P. 315		

SHEET NO. 60
123 SHEETS



STRINGER S13 - SPAN #6 & #8
W460 x 60 (NTR)
(No. Required = 4)



STRINGER S15 - SPAN #6 & #8
W460 x 60 (NTR)
(No. Required = 4)

STRINGER DETAILS
F.A.P. RT. 315 SEC. 140B-1-4
FULTON AND MASON COUNTIES
STA. 10+646.69

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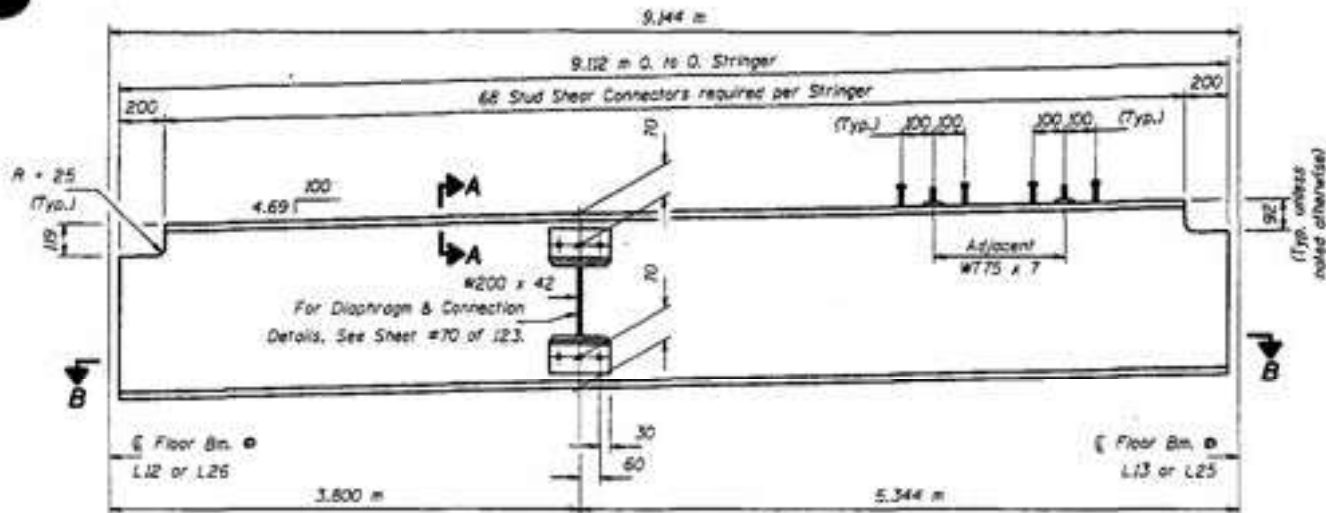
EXISTING 1997 PLANS
S.N. 063-0002 HAVANA BRIDGE OVER ILLINOIS RIVER

SHEET OF SHEETS

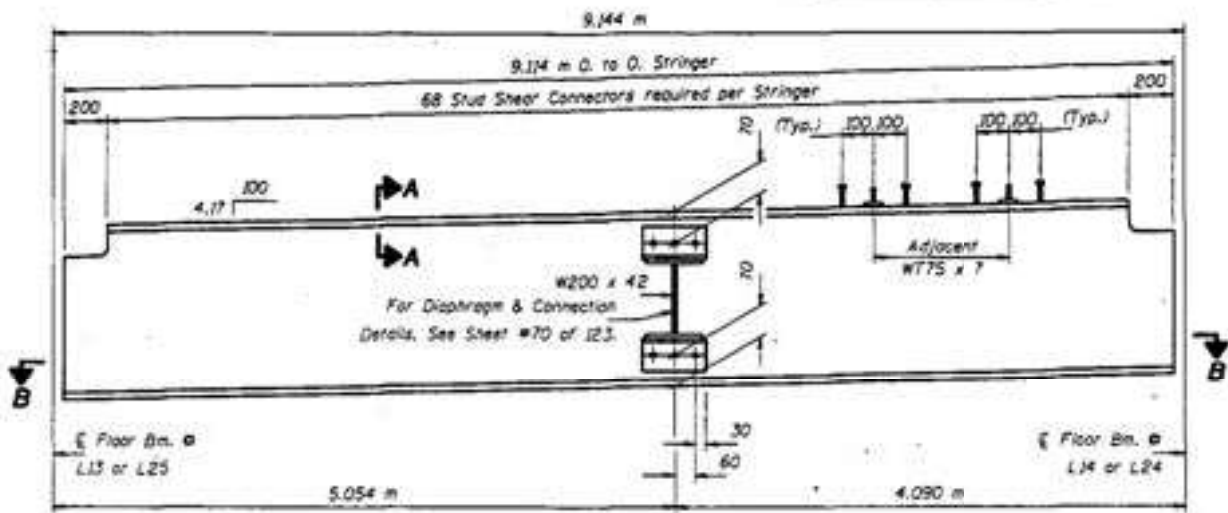
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CONTRACT NO. 68F50				
ILLINOIS EED AID PROJECT				

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

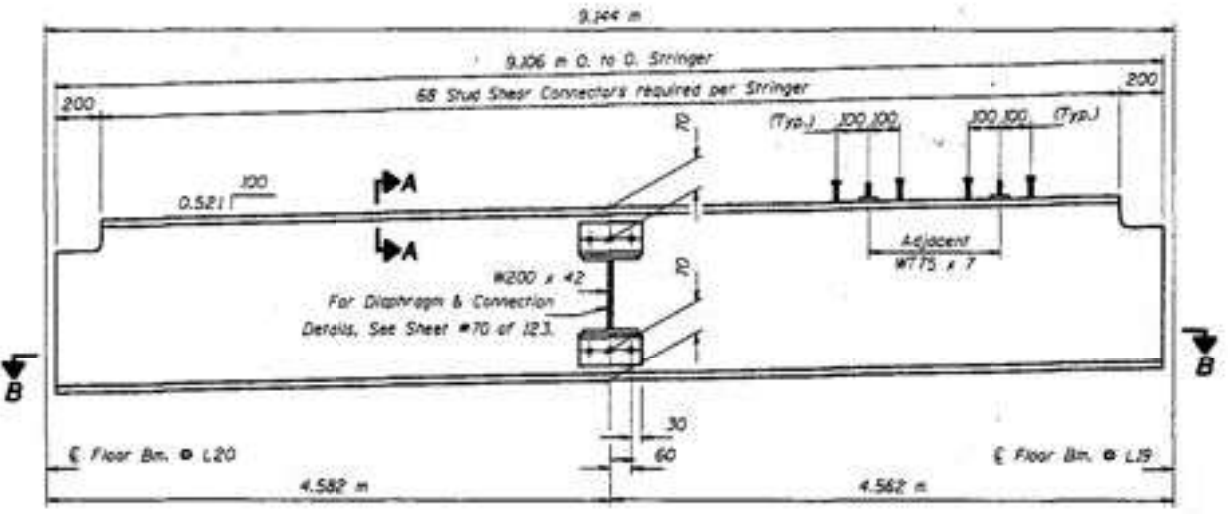
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SHEET NO. 61				
123 SHEETS				



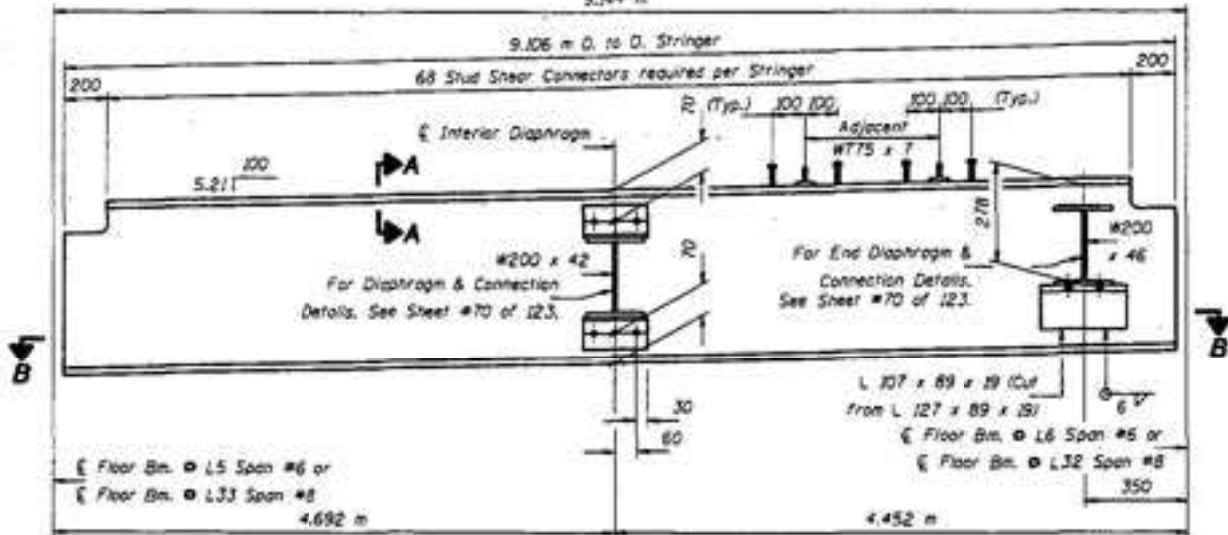
STRINGER S16 - SPAN #7
W460 x 60 (NTR)
(No. Required = 4)



STRINGER S17 - SPAN #7
W460 x 60 (NTR)
(No. Required = 4)



STRINGER S18 - SPAN #7
W460 x 60 (NTR)
(No. Required = 2)



STRINGER S19 - SPAN #6 & #8
W460 x 60 (NTR)
(No. Required = 4)

Notes: For Sections A-A & B-B see sheet #69 of 123.
To facilitate field erection, stringer lengths are shorter than those taken from existing Fabrication Plans.
"NTR" denotes members to which Notch Toughness Requirements are applicable.
Hardened washers shall be required over all 24 mm ϕ holes.
All holes in the ends of the Stringer Webs shall be field drilled for end connections. See Floor Beam sheets #45 thru #55 of 123 for details. All other holes are shop drilled.
For Stringer locations see sheets #37 thru #39 of 123.
Position Stringers S16, S17 & S18 to maintain equal clearances from faces of floor beam webs at both ends.
Position Stringers S19 by placing Stringer end (end which is to have field drilled holes on Stringer Web) to maintain 12 mm clearance from face of Floor Beam Web.
After grid deck is installed on the Stringer, install stud shear connectors as shown. Place adjacent Stud Shear Connectors alternately as shown on Section A-A, see sheet #69 of 123.
Stringers shall be AASHTO M270M Grade 345.

STRINGER DETAILS
F.A.P. RT. 315 SEC. 408-1-4
FULTON AND MASON COUNTIES
STA. 10+646.69

Revised 7-15-97 STD

MODEL: SP-60
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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

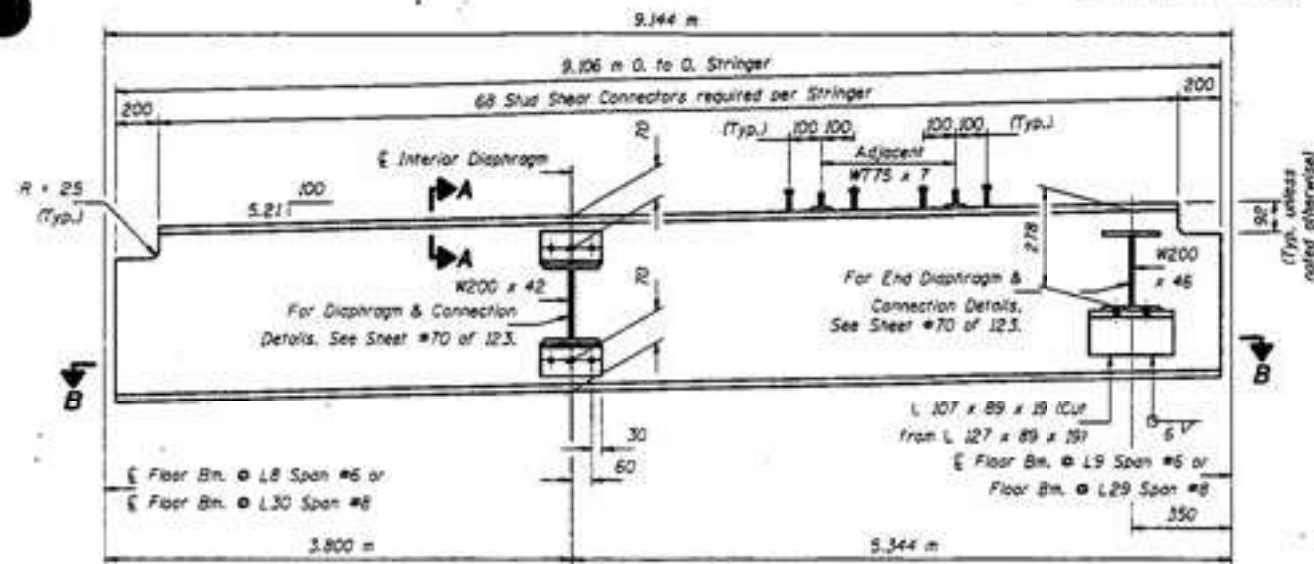
EXISTING 1997 PLANS
S.N. 063-0002 HAVANA BRIDGE OVER ILLINOIS RIVER

SHEET OF SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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CONTRACT NO. 68F50				
ILLINOIS FED. AID PROJECT				

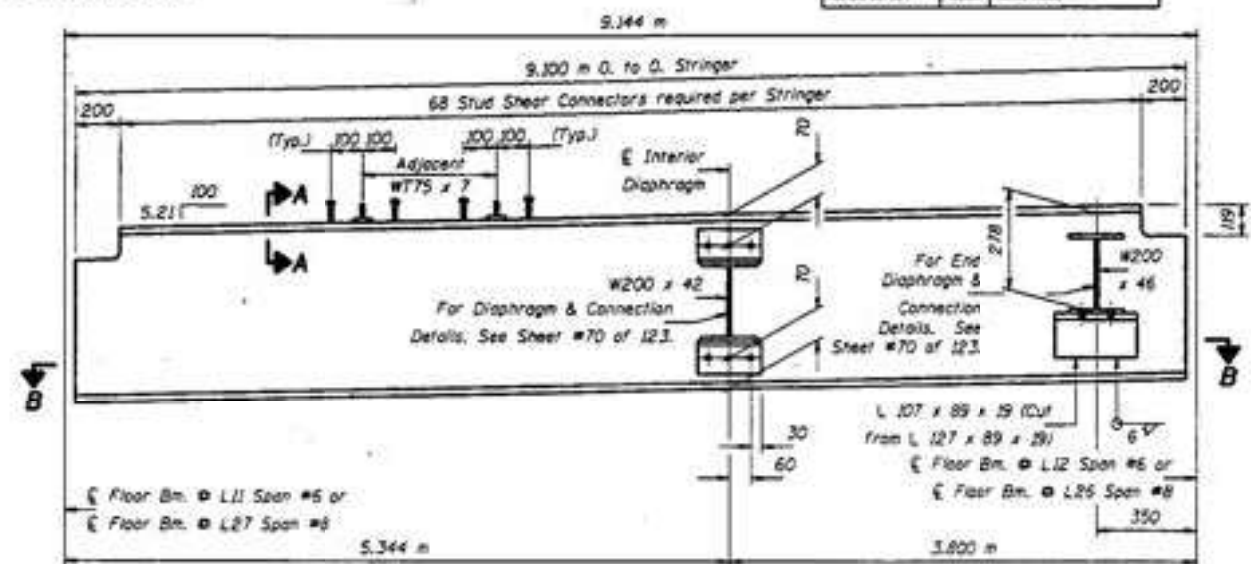
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

DATE	BY	CHKD	APPD	REV	SHEET NO.
F.A.P. 315	MDR-1-4	FULTON & MASON			123 SHEETS
DATE	BY	CHKD	APPD	REV	



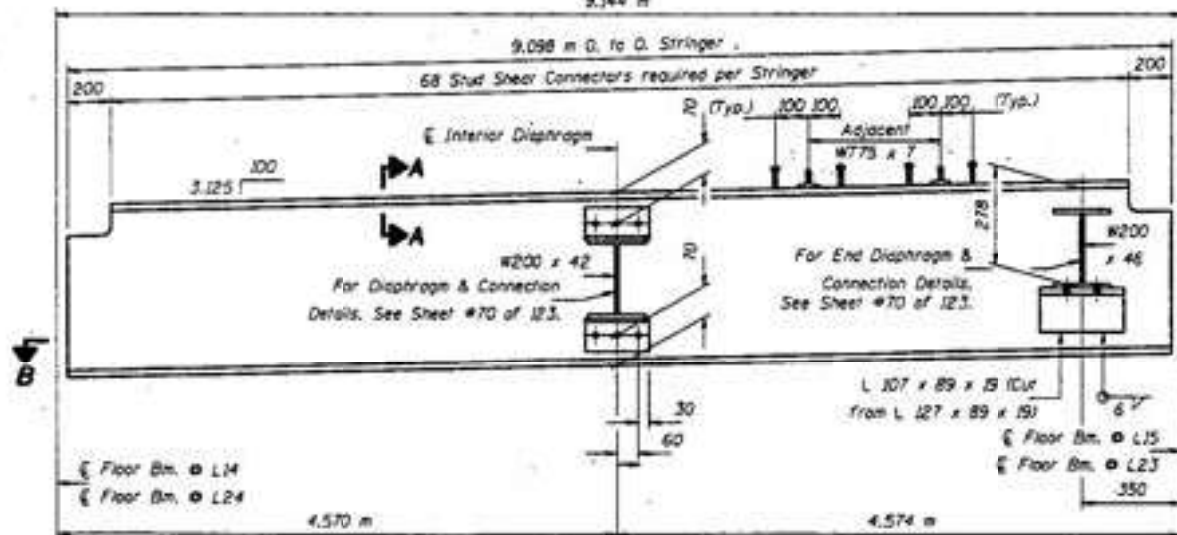
STRINGER S20 - SPAN #6 & #8

W450 x 60 (NTR)
(No. Required = 4)



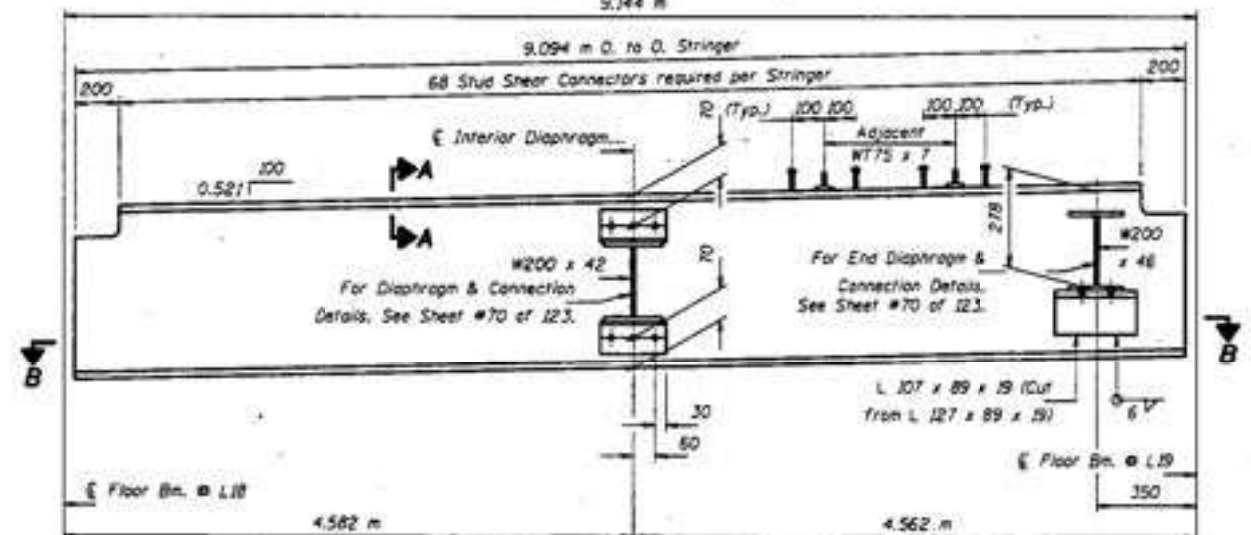
STRINGER S21 - SPAN #6 & #8

W450 x 60 (NTR)
(No. Required = 4)



STRINGER S22 - SPAN #7

W450 x 60 (NTR)
(No. Required = 4)



STRINGER S23 - SPAN #7

W450 x 60 (NTR)
(No. Required = 2)

Notes: For Sections A-A & B-B see sheet #69 of 123.
To facilitate field erection, stringer lengths are shorter than those taken from existing Fabrication Plans.
"NTR" denotes members to which Notch Toughness Requirements are applicable.
Hardened washers shall be required over all 24 mm Ø holes.
All holes in the ends of the Stringer Webs shall be field drilled for end connections. See Floor Beam sheets #45 thru #55 of 123 for details. All other holes are shop drilled.
For Stringer locations see sheets #37 thru #39 of 123.
Position Stringers S20, S21, S22 & S23 by placing Stringer end which is to have field drilled holes on Stringer Web to maintain 12 mm clearance from face of Floor Beam Web.
After grid deck is installed on the Stringer, install stud shear connectors as shown. Place adjacent Stud Shear Connectors alternately as shown on Section A-A, see sheet #69 of 123.
Stringers shall be AASHTO M270W Grade 345.

STRINGER DETAILS
F.A.P. RT. 315 SEC. 140B-1-4
FULTON AND MASON COUNTIES
STA. 10+646.69

Revised 7-16-97 STD

projects\jfs00004\0630002e.dgn Jul. 21, 1997 12:47:06

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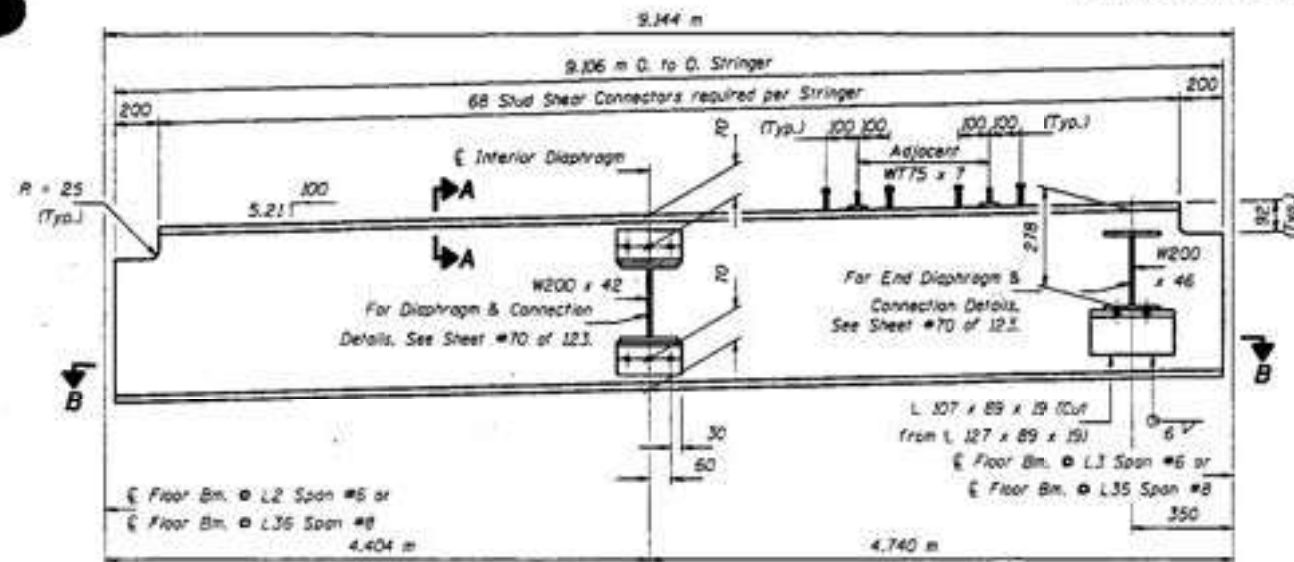
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

EXISTING 1997 PLANS
S.N. 063-0002 HAVANA BRIDGE OVER ILLINOIS RIVER

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
315	(140-B-BR) BP,BRR	FULTON/MASON	163	130
				CONTRACT NO. 68F50
				ILLINOIS FED. AID PROJECT

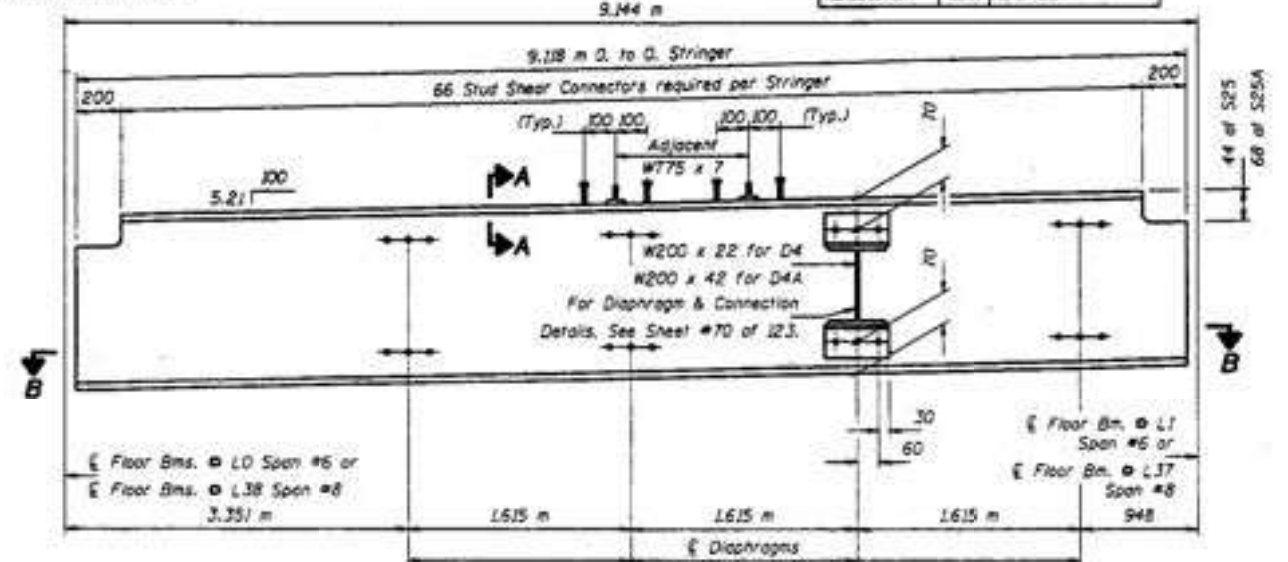
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

DATE	REVISION	BY	APP.	NO.	SHEET NO.
F.A.P. 315	MOB I-4	FULTON & MASON			123 SHEETS
10/1/97					



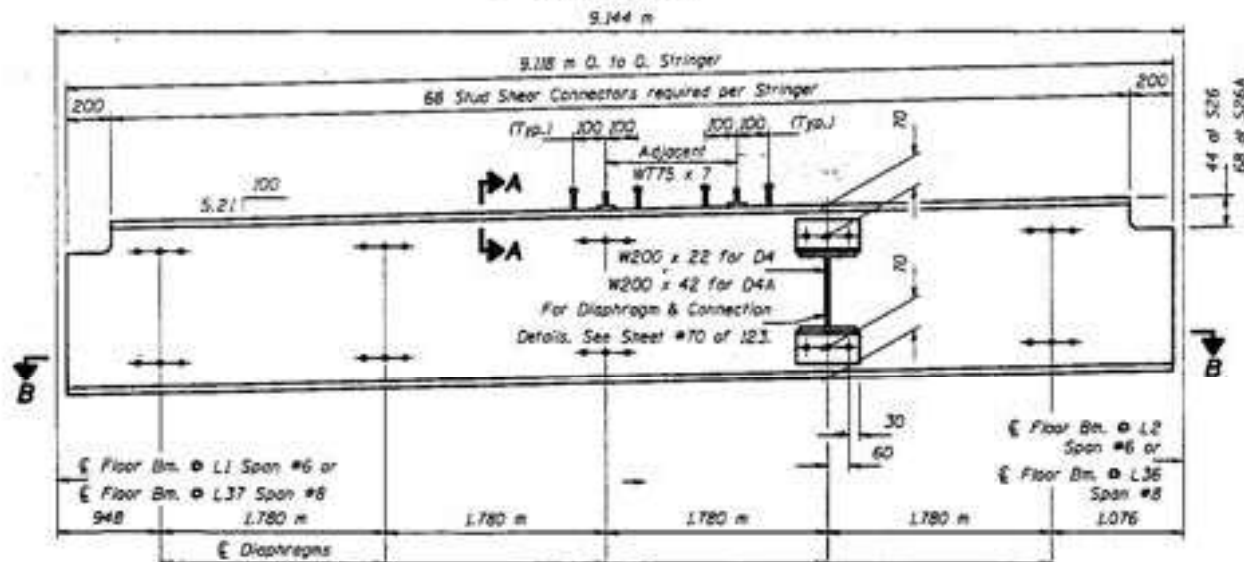
STRINGER S24 - SPAN #6 & #8

W460 x 60 (NTR)
(No. Required = 4)



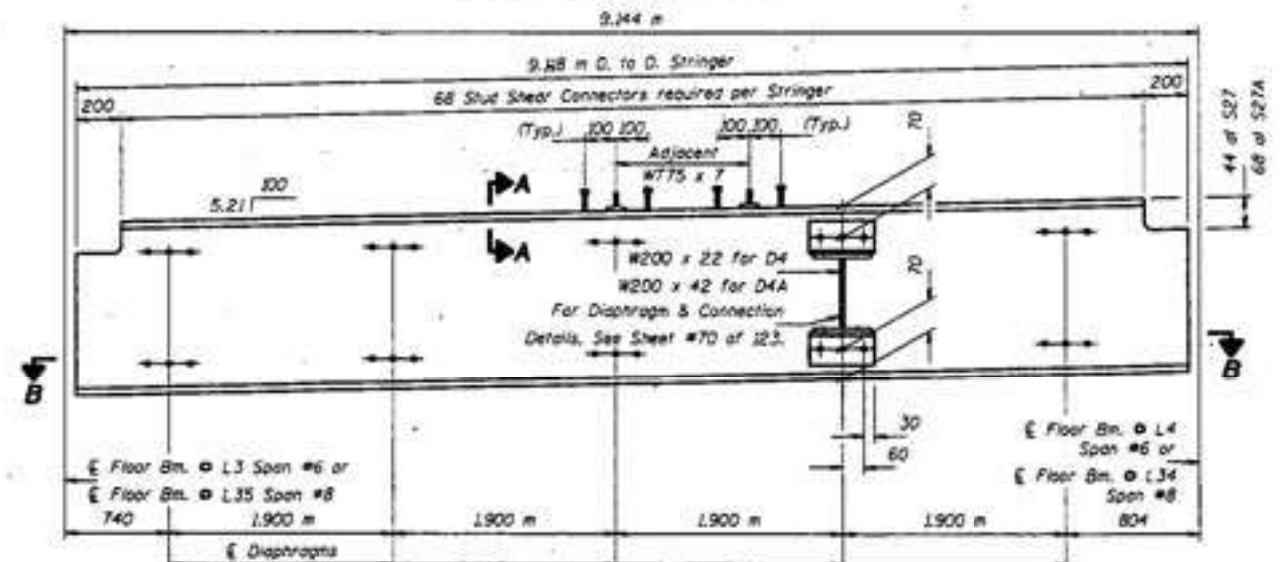
STRINGER S25 & S25A - SPAN #6 & #8

W460 x 60 (NTR)
(No. Required = 4 for S25 & 4 for S25A)



STRINGER S26 & S26A - SPAN #6 & #8

W460 x 60 (NTR)
(No. Required = 4 for S26 & 4 for S26A)



STRINGER S27 & S27A - SPAN #6 & #8

W460 x 60 (NTR)
(No. Required = 4 for S27 & 4 for S27A)

Notes: For Sections A-A & B-B see sheet #69 of 123.
To facilitate field erection, stringer lengths are shorter than those taken from existing Fabrication Plans.
"NTR" denotes members to which Match Toughness Requirements are applicable.
Hardened washers shall be required over all 24 mm holes.
All holes in the ends of the Stringer Webs shall be field drilled for end connections. See Floor Beam sheets #45 thru #48 & #56 of 123 for details. All other holes are shop drilled.
For Stringer locations see sheets #37 & #39 of 123.
Position Stringers S25, S26 & S27 to maintain equal clearances from faces of floor beam webs at both ends.
Position Stringers S24 by placing Stringer and I-beam which is to have field drilled holes on Stringer Web to maintain 12 mm clearance from face of Floor Beam Web.
After grid deck is installed on the Stringer, install stud shear connectors as shown. Place adjacent Stud Shear Connectors adjacent as shown on Section A-A, see sheet #69 of 123.
Stringers shall be AASHTO M270W Grade 345.

STRINGER DETAILS
F.A.P. RT. 315 SEC. MOB-I-4
FULTON AND MASON COUNTIES
STA. 10+646.69

Revised 7-16-97 STD

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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

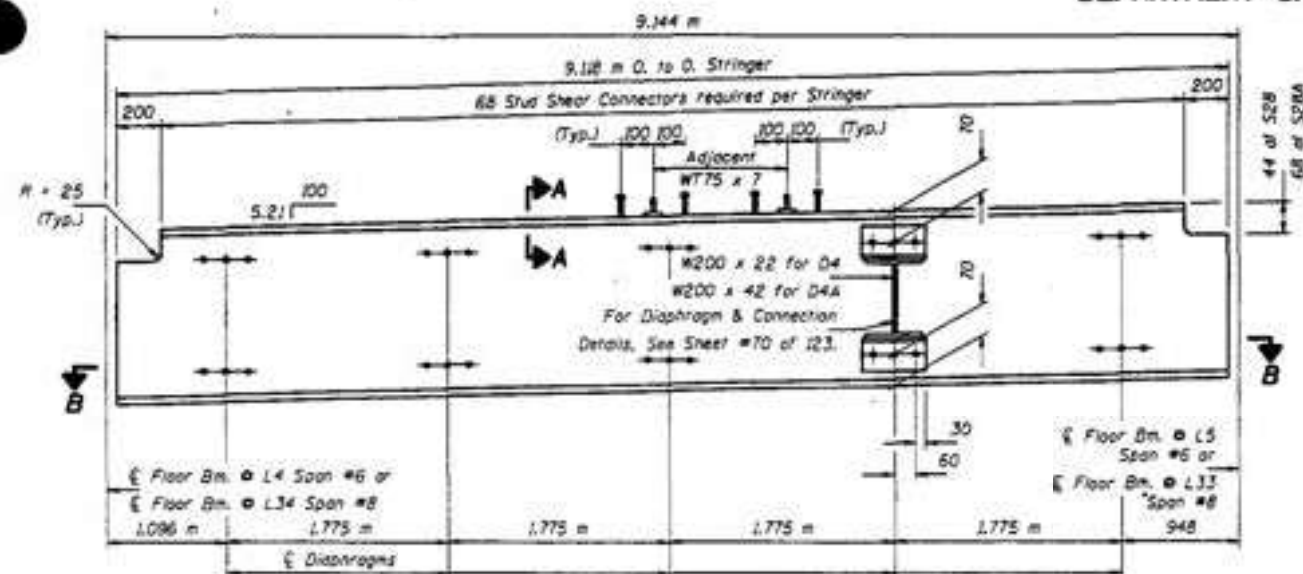
EXISTING 1997 PLANS
S.N. 063-0002 HAVANA BRIDGE OVER ILLINOIS RIVER

SHEET OF SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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CONTRACT NO. 68F50				
ILLINOIS FED. AID PROJECT				

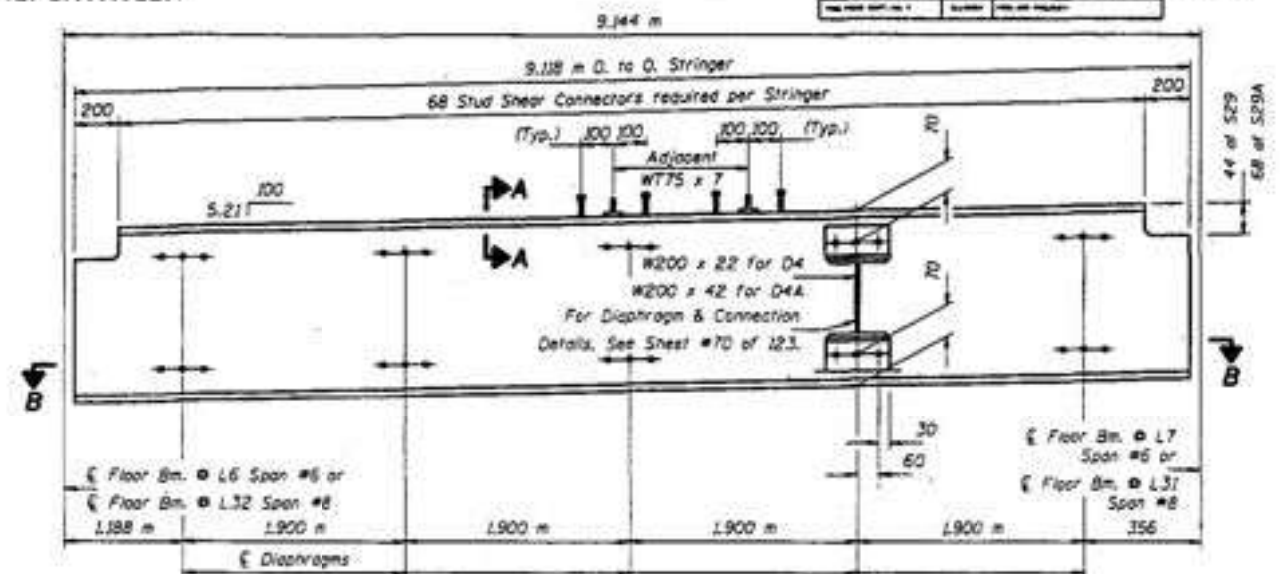
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

DATE	BY	CHKD	APPD	REV	SHEET NO.
F.A.P. 315	JAC	FULTON & MASON			123 SHEETS



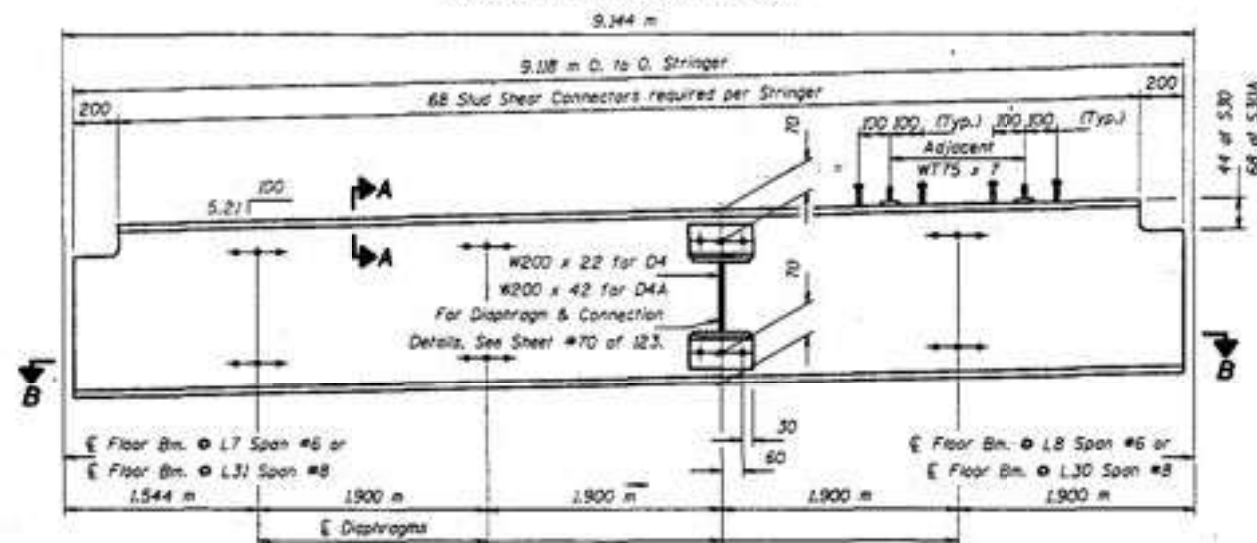
STRINGER S28 & S28A - SPAN #6 & #8

W460 x 60 (NTR)
(No. Required = 4 for S28 & 4 for S28A)



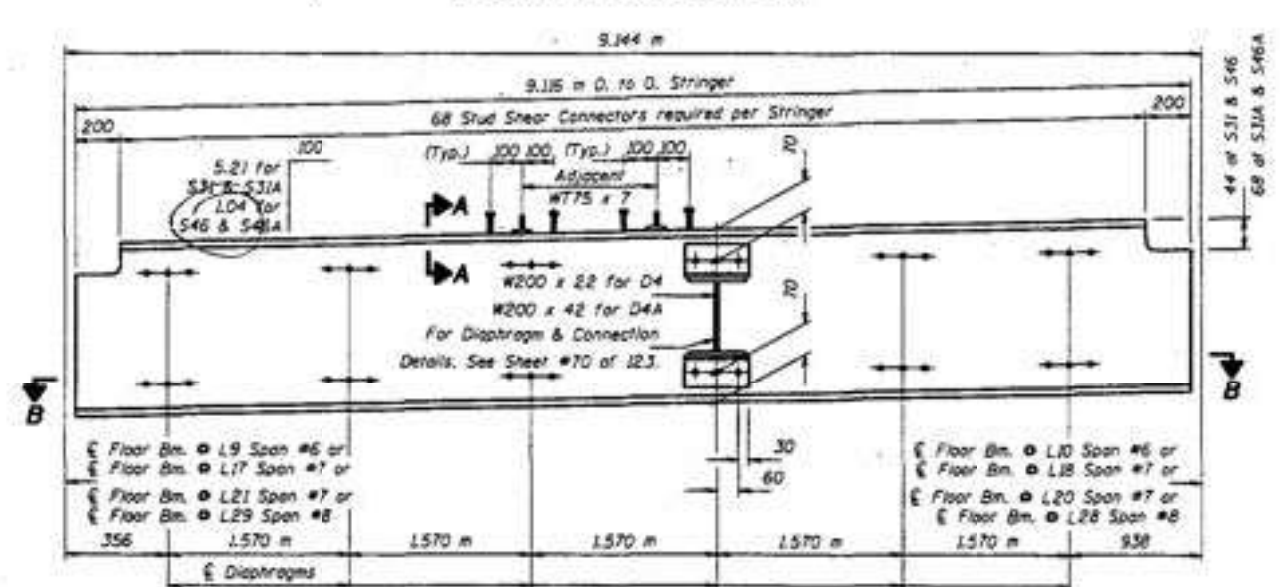
STRINGER S29 & S29A - SPAN #6 & #8

W460 x 60 (NTR)
(No. Required = 4 for S29 & 4 for S29A)



STRINGER S30 & S30A - SPAN #6 & #8

W460 x 60 (NTR)
(No. Required = 4 for S30 & 4 for S30A)



STRINGER S31, S31A, S46 & S46A - SPAN #6, #7 & #8

W460 x 60 (NTR)
(No. Required = 4 for S31 & 4 for S31A)
(No. Required = 4 for S46 & 4 for S46A)

Notes: For Sections A-A & B-B see sheet #69 of 123.
To facilitate field erection, stringer lengths are shorter than those taken from existing Fabrication Plans.
"NTR" denotes members to which Notch Toughness Requirements are applicable.
Hardened washers shall be required over all 24 mm ϕ holes.
All holes in the ends of the Stringer Webs shall be field drilled for end connections. See Floor Beam sheets #45 thru #55 of 123 for details. All other holes are shop drilled.
For Stringer locations see sheets #37 thru #39 of 123.
Position Stringers S28, S29, S30 & S31 to maintain equal clearances from faces of floor beam webs at both ends.
After grid deck is installed on the Stringer, install stud shear connectors as shown. Place adjacent Stud Shear Connectors alternately as shown on Section A-A, see sheet #69 of 123.
Stringers shall be AASHTO M270M Grade 345.

STRINGER DETAILS
F.A.P. RT. 315 SEC. 140B-1-4
FULTON AND MASON COUNTIES
STA. 10+646.69

Revised 7-16-97 STD

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

EXISTING 1997 PLANS
S.N. 063-0002 HAVANA BRIDGE OVER ILLINOIS RIVER

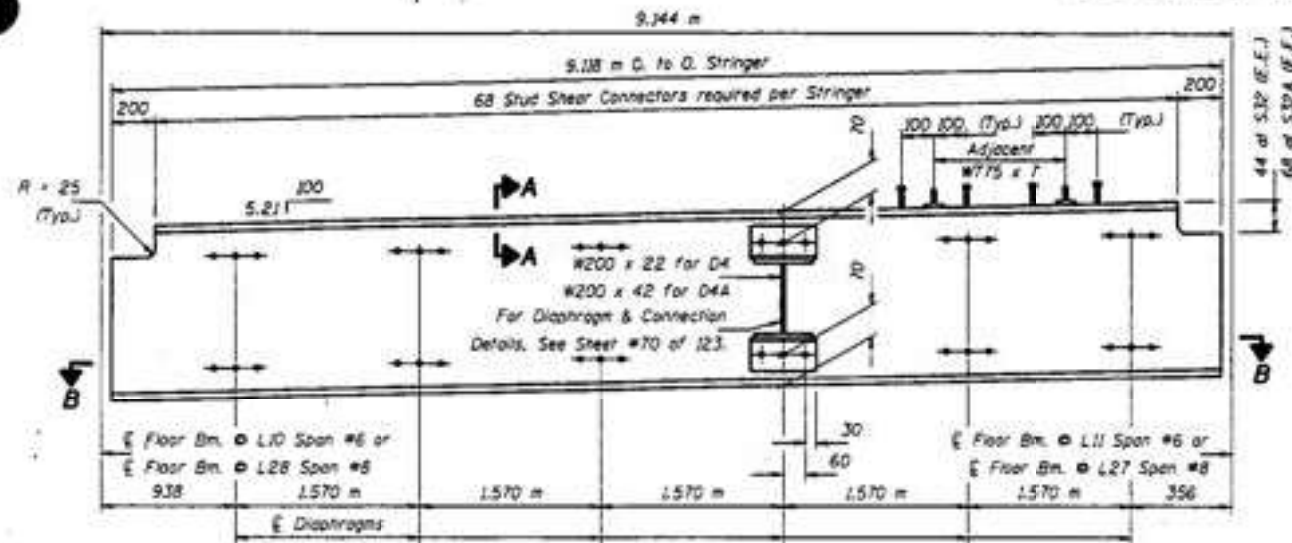
SHEET OF SHEETS

FOR INFORMATION ONLY

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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CONTRACT NO. 68F50				
ILLINOIS FED. AID PROJECT				

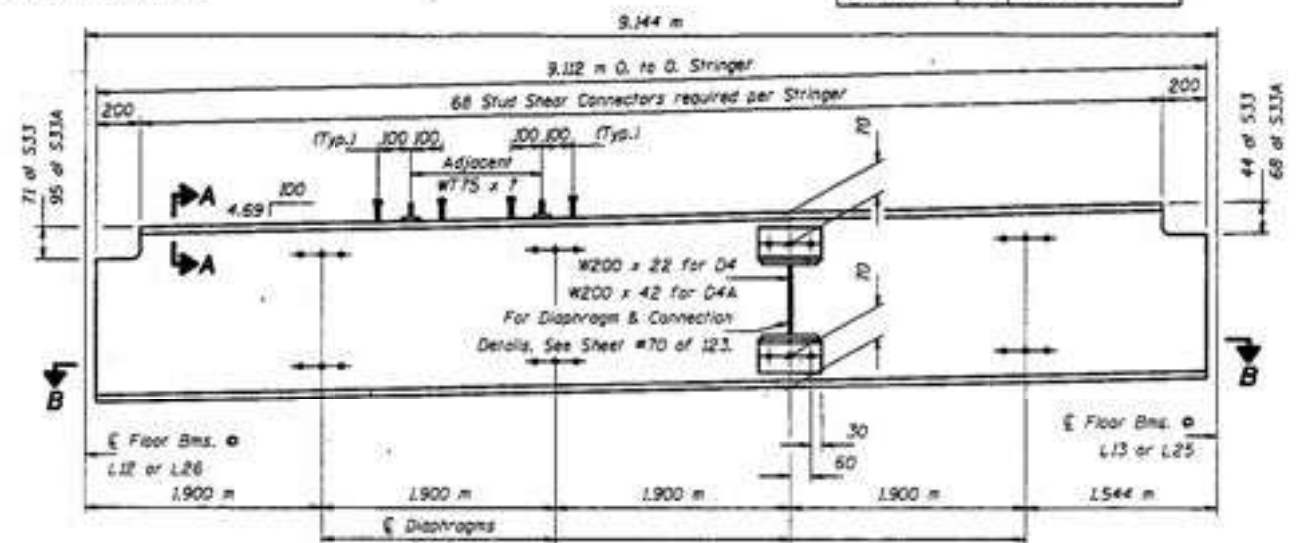
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

DATE	REVISED	BY	DATE	REVISED
F.A.P. 305	1-4	FULTON & MASON		
SHEET NO. 65				
123 SHEETS				



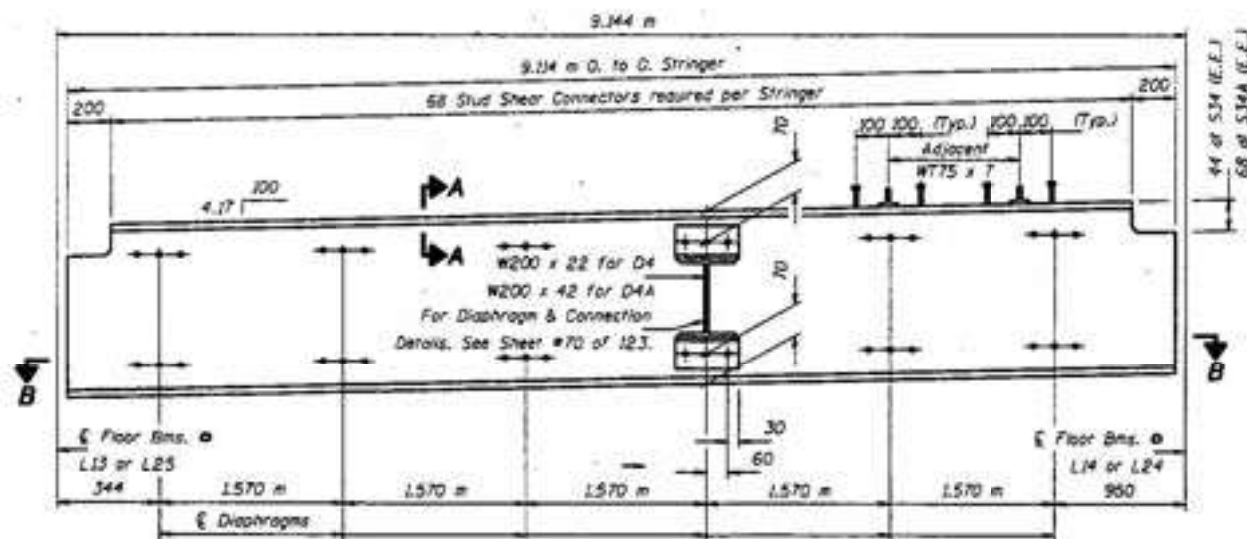
STRINGER S32 & S32A - SPAN #6 & #8

W460 x 60 (NTR)
(No. Required = 4 for S32 & 4 for S32A)



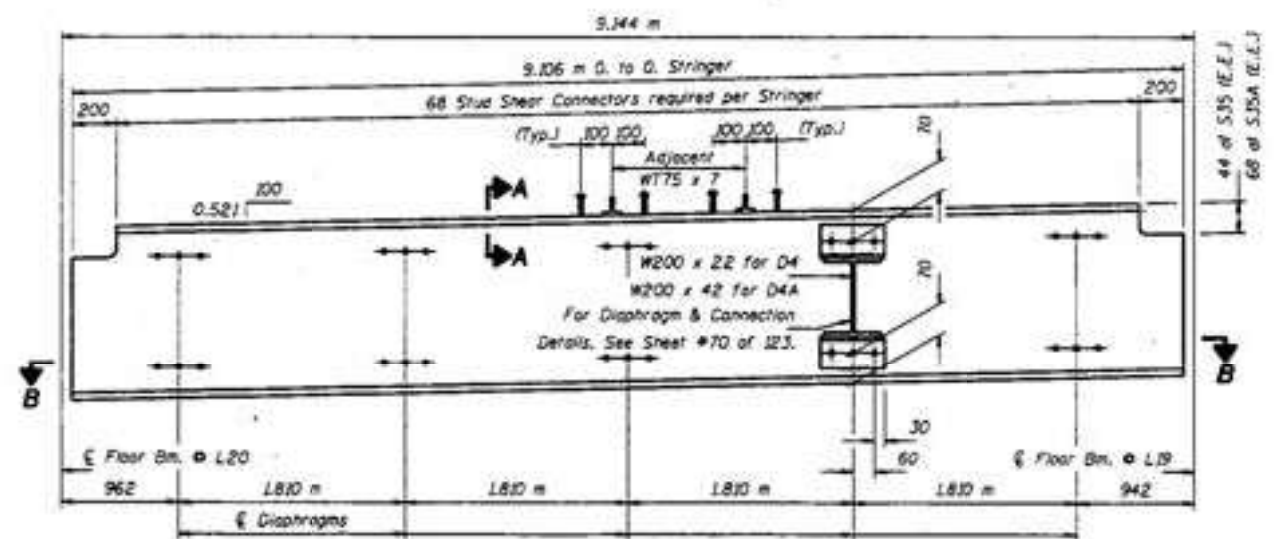
STRINGER S33 & S33A - SPAN #7

W460 x 60 (NTR)
(No. Required = 4 for S33 & 4 for S33A)



STRINGER S34 & S34A - SPAN #7

W460 x 60 (NTR)
(No. Required = 4 for S34 & 4 for S34A)



STRINGER S35 & S35A - SPAN #7

W460 x 60 (NTR)
(No. Required = 2 for S35 & 2 for S35A)

Notes: For Sections A-A & B-B see sheet #69 of 123.
To facilitate field erection, stringer lengths are shorter than those taken from existing Fabrication Plans.
"NTR" denotes members to which Notch Toughness Requirements are applicable.
Hardened washers shall be required over all 24 mm Ø holes.
All holes in the ends of the Stringer Webs shall be field drilled for end connections. See Floor Beam sheets #45 thru #55 of 123 for details. All other holes are shop drilled.
For Stringer locations see sheets #37 thru #39 of 123.
Position Stringers S32, S33, S34 & S35 to maintain equal clearances from faces of floor beam webs at both ends.
After grid deck is installed on the Stringer, install stud shear connectors as shown. Place adjacent Stud Shear Connectors alternately as shown in Section A-A, see sheet #69 of 123.
Stringers shall be AASHTO W270M Grade 345.

STRINGER DETAILS
F.A.P. RT. 315 SEC. 140B-1-4
FULTON AND MASON COUNTIES
STA. 10+646.69

Revised 7-16-97 STD

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PLOT DATE =	CHECKED -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

EXISTING 1997 PLANS
S.N. 063-0002 HAVANA BRIDGE OVER ILLINOIS RIVER

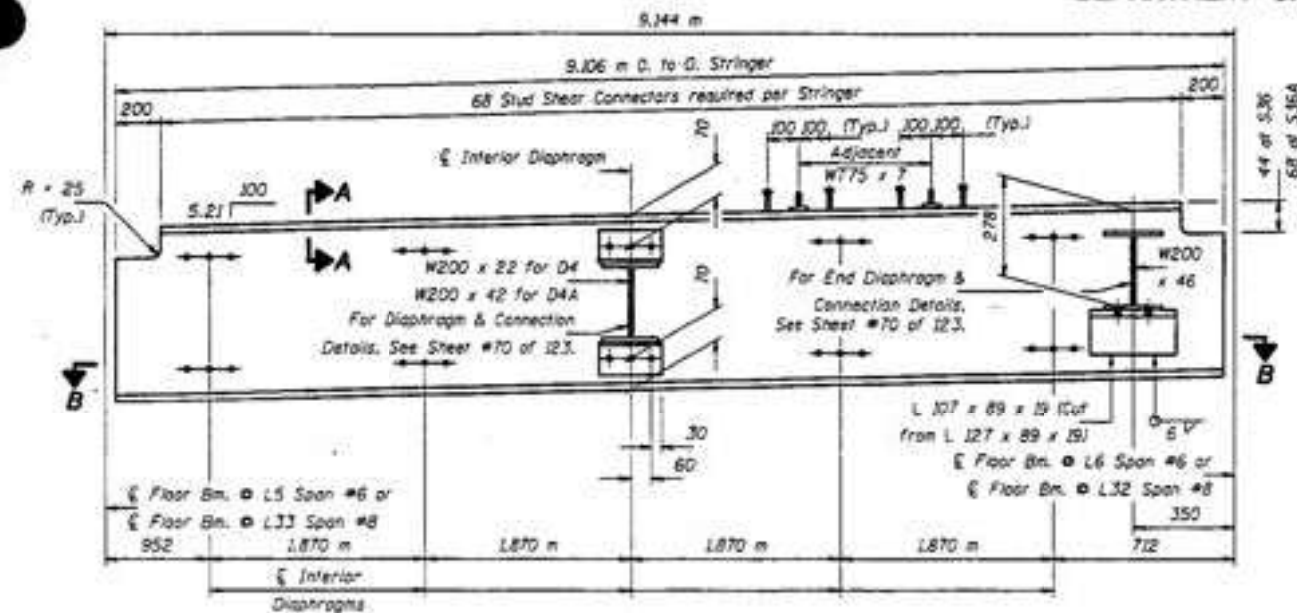
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315	(140-B-BR) BP,BRR	FULTON/MASON	163	133
CONTRACT NO. 68F50				
ILLINOIS FED. AID PROJECT				

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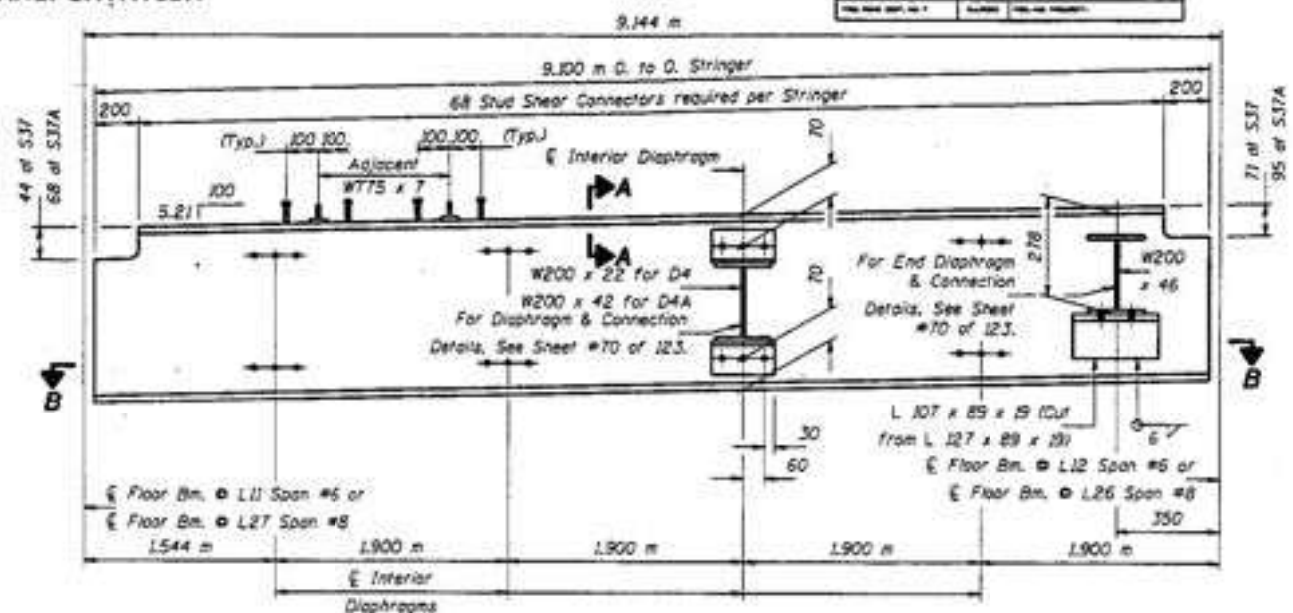
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

DATE	BY	CHKD	APPD	SHEET NO.
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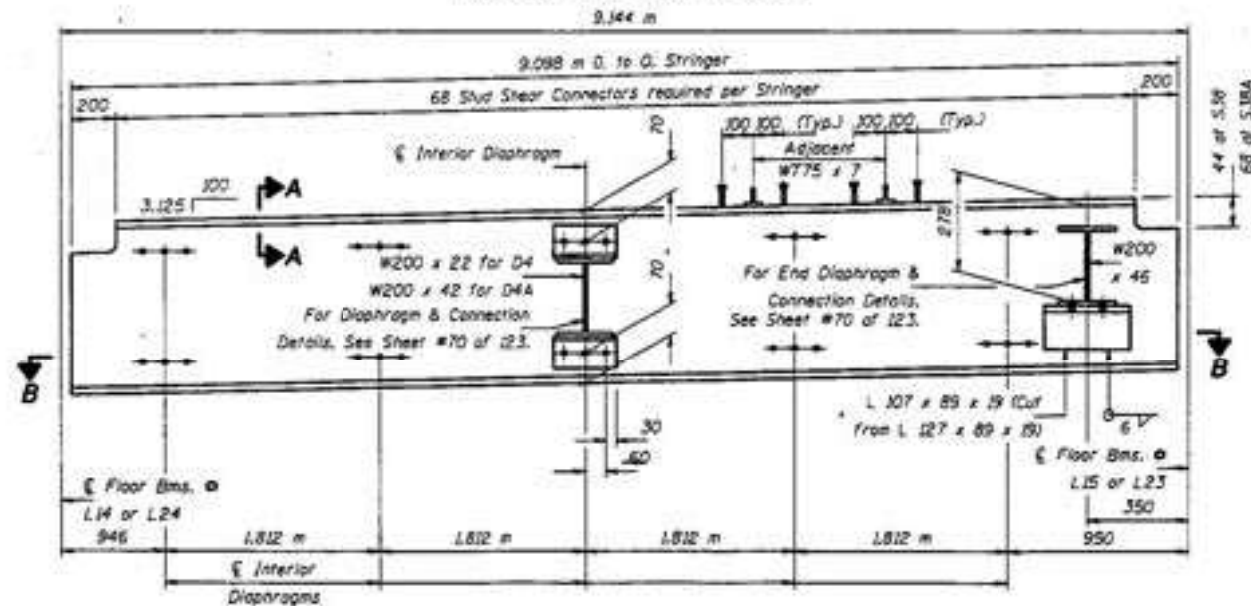
STRINGER S36 & S36A - SPAN #6 & #8

W460 x 60 (NTR)
(No. Required = 4 for S36 & 4 for S36A)



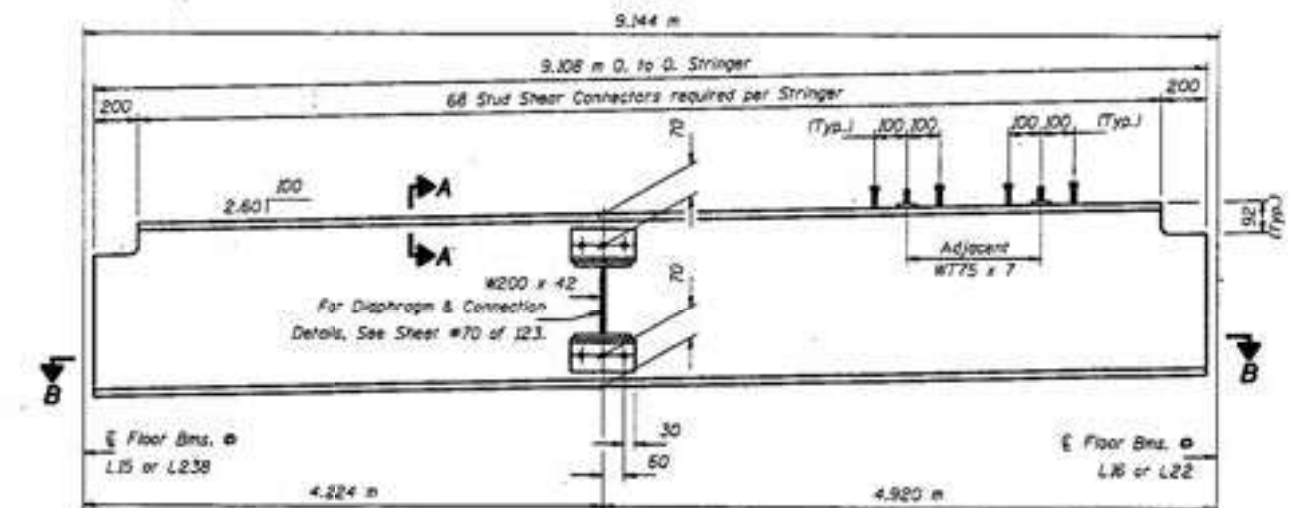
STRINGER S37 & S37A - SPAN #6 & #8

W460 x 60 (NTR)
(No. Required = 4 for S37 & 4 for S37A)



STRINGER S38 & S38A - SPAN #7

W460 x 60 (NTR)
(No. Required = 4 for S38 & 4 for S38A)



STRINGER S39 - SPAN #7

W460 x 60 (NTR)
(No. Required = 4)

Notes: For Sections A-A & B-B see sheet #69 of 123.
To facilitate field erection, stringer lengths are shorter than those taken from existing Fabrication Plans.
"NTR" denotes members to which Notch Toughness Requirements are applicable.
Hardened washers shall be required over all 24 mm holes.
All holes in the ends of the Stringer Webs shall be field drilled for end connections. See Floor Beam sheets #45 thru #55 of 123 for details. All other holes are shop drilled.
For Stringer locations see sheets #37 thru #39 of 123.
Position Stringers S39 to maintain equal clearances from faces of floor beam webs at both ends.
Position Stringers S36, S37 & S38 by placing Stringer end flange which is to have field drilled holes on Stringer Web to maintain 12 mm clearance from face of Floor Beam Web.
After grid deck is installed on the Stringer, install stud shear connectors as shown. Place adjacent Stud Shear Connectors adjacent as shown on Section A-A, see sheet #69 of 123.
Stringers shall be AASHTO M270M Grade 345.

STRINGER DETAILS
F.A.P. RT. 315 SEC. MOB-I-4
FULTON AND MASON COUNTIES
STA. 10+646.69

Revised 7-16-97 STD

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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

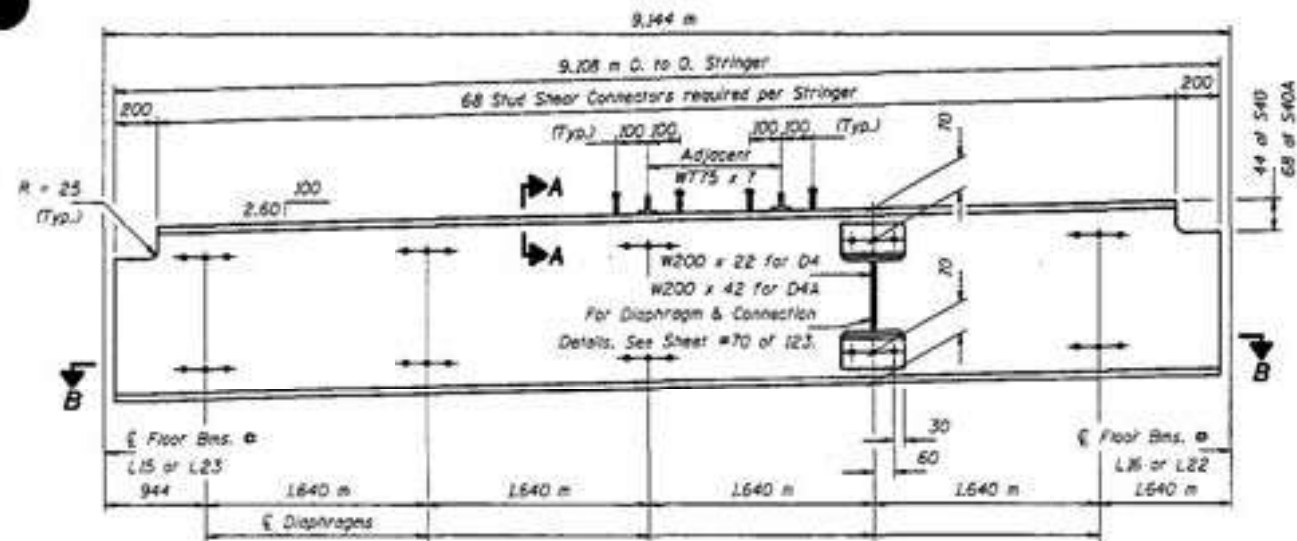
EXISTING 1997 PLANS
S.N. 063-0002 HAVANA BRIDGE OVER ILLINOIS RIVER

SHEET OF SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
315	(140-B-BR) BP,BRR	FULTON/MASON	163	134
CONTRACT NO. 68F50				
ILLINOIS FED. AID PROJECT				

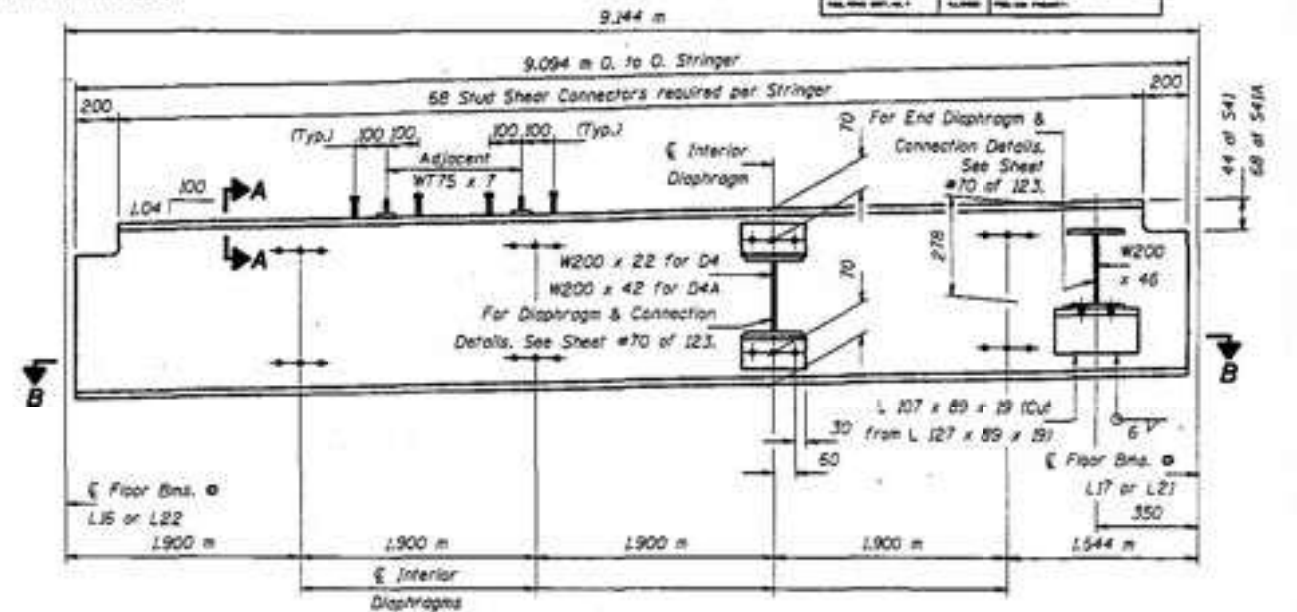
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

DATE	BY	CHKD	APPD	REV	SHEET NO.
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NO. 063-0002	NO. 063-0002	NO. 063-0002	NO. 063-0002	NO. 063-0002	NO. 063-0002



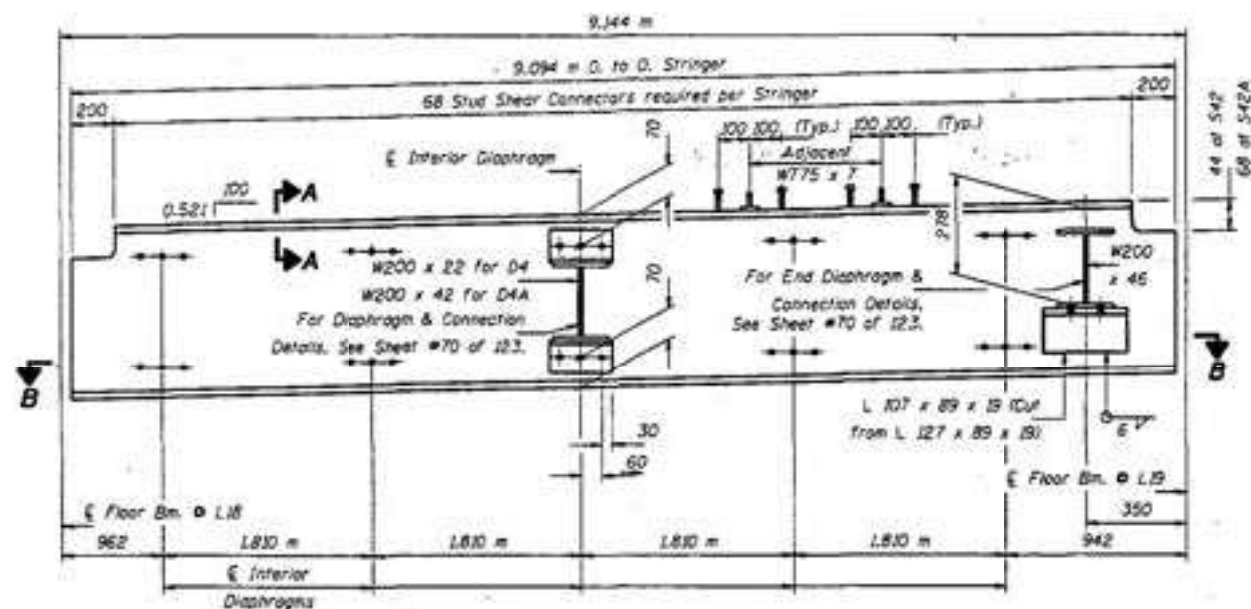
STRINGER S40 & S40A - SPAN #7

W460 x 60 (NTR)
(No. Required = 4 for S40 & 4 for S40A)



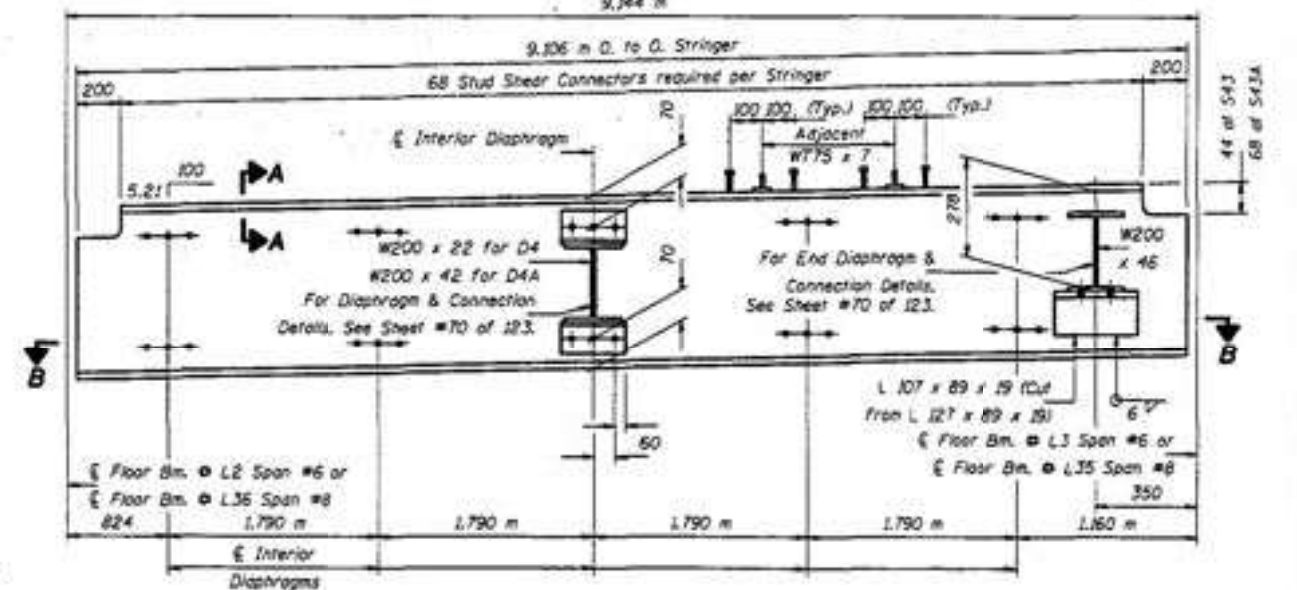
STRINGER S41 & S41A - SPAN #7

W460 x 60 (NTR)
(No. Required = 4 for S41 & 4 for S41A)



STRINGER S42 & S42A - SPAN #7

W460 x 60 (NTR)
(No. Required = 2 for S42 & 2 for S42A)



STRINGER S43 & S43A - SPAN #6 & #8

W460 x 60 (NTR)
(No. Required = 4 for S43 & 4 for S43A)

Notes: For Sections A-A & B-B see sheet #69 of 123.
To facilitate field erection, stringer lengths are shorter than those taken from existing Fabrication Plans.
"NTR" denotes members to which notch Toughness Requirements are applicable.
Hardened washers shall be required over all 24 mm ϕ holes.
All holes in the ends of the Stringer Webs shall be field drilled for end connections. See Floor Beam sheets #45 thru #55 of 123 for details. All other holes are shop drilled.
For Stringer locations see sheets #37 thru #39 of 123.
Position Stringers S40 to maintain equal clearances from faces of floor beam webs at both ends.
Position Stringers S41, S42 & S43 by placing Stringer end flange which is to have field drilled holes on Stringer Web to maintain 12 mm clearance from face of Floor Beam Web.
After grid deck is installed on the Stringer, install stud shear connectors as shown. Place adjacent Stud Shear Connectors directly as shown on Section A-A, see sheet #69 of 123.
Stringers shall be AASHTO M270M Grade 345.

STRINGER DETAILS
F.A.P. RT. 315 SEC. 140B-I-4
FULTON AND MASON COUNTIES
STA. 10+646.69

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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

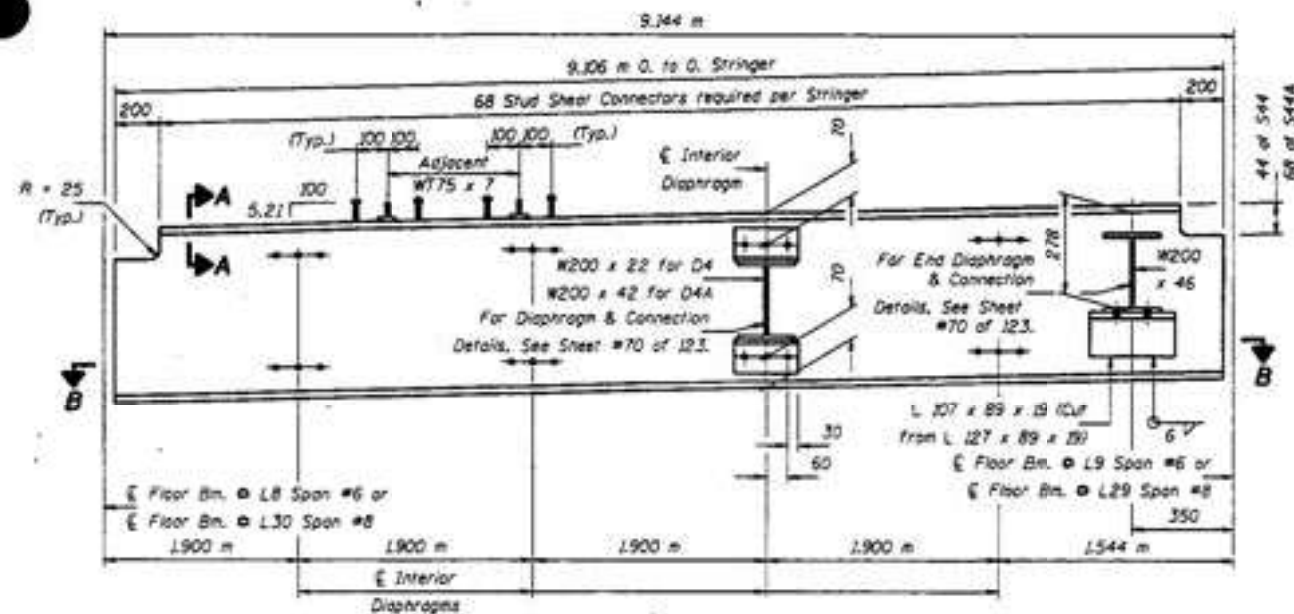
EXISTING 1997 PLANS
S.N. 063-0002 HAVANA BRIDGE OVER ILLINOIS RIVER

SHEET OF SHEETS

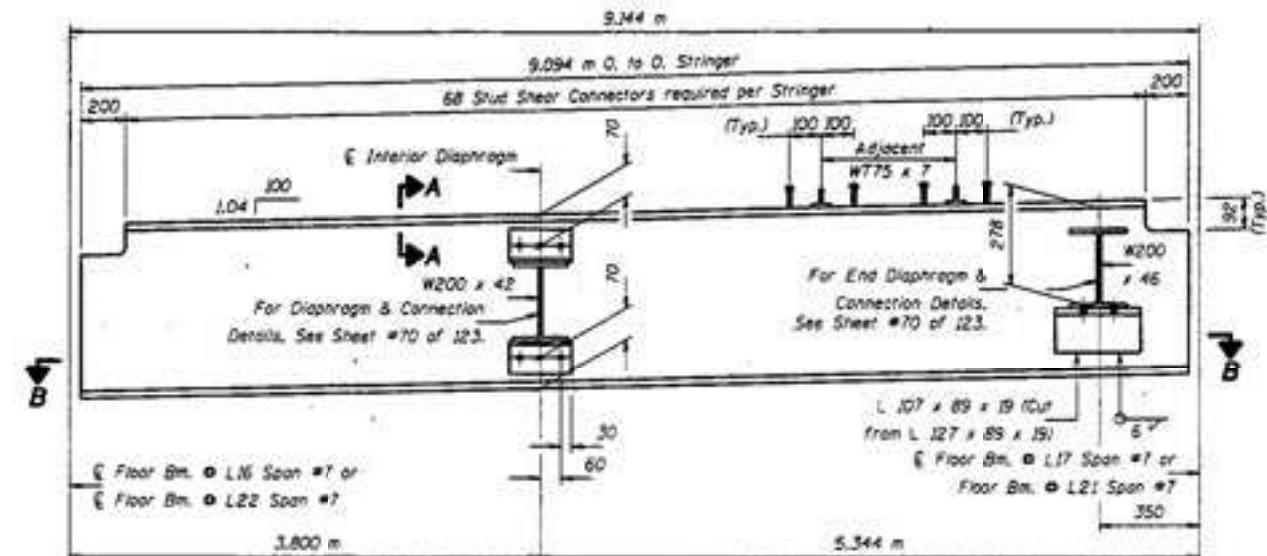
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315	(140-B-BR) BP,BRR	FULTON/MASON	163	135
CONTRACT NO. 68F50				
ILLINOIS FED. AID PROJECT				

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PROJECT NO.	SECTION	SHEET NO.	TOTAL SHEETS
F.A.P. 315	140B-I-4	123	136
FULTON & MASON			



STRINGER S44 & S44A - SPAN #6 & #8
W450 x 60 (NTR)
(No. Required = 4 for S44 & 4 for S44A)



STRINGER S45 - SPAN #7
W450 x 60 (NTR)
(No. Required = 4)

Notes: For Sections A-A & B-B see sheet #69 of 123.
To facilitate field erection, stringer lengths are shorter than those taken from existing Fabrication Plans.
"NTR" denotes members to which Hatch Toughness Requirements are applicable.
Hardened washers shall be required over all 24 mm & holes.
All holes in the ends of the Stringer Webs shall be field drilled for end connections. See Floor Beam sheets #45 thru #55 of 123 for details. All other holes are shop drilled.
For Stringer locations see sheets #37 thru #39 of 123.
Position Stringers S44 & S45 by placing Stringer end (end which is to have field drilled holes on Stringer Web) to maintain 12 mm clearance from face of Floor Beam Web.
After grid deck is installed on the Stringer, install stud shear connectors as shown. Place adjacent Stud Shear Connectors alternately as shown on Section A-A, see sheet #69 of 123.
Stringers shall be AASHTO M270M Grade 345.

STRINGER DETAILS
F.A.P. RT. 315 SEC. 140B-I-4
FULTON AND MASON COUNTIES
STA. 10+646.69

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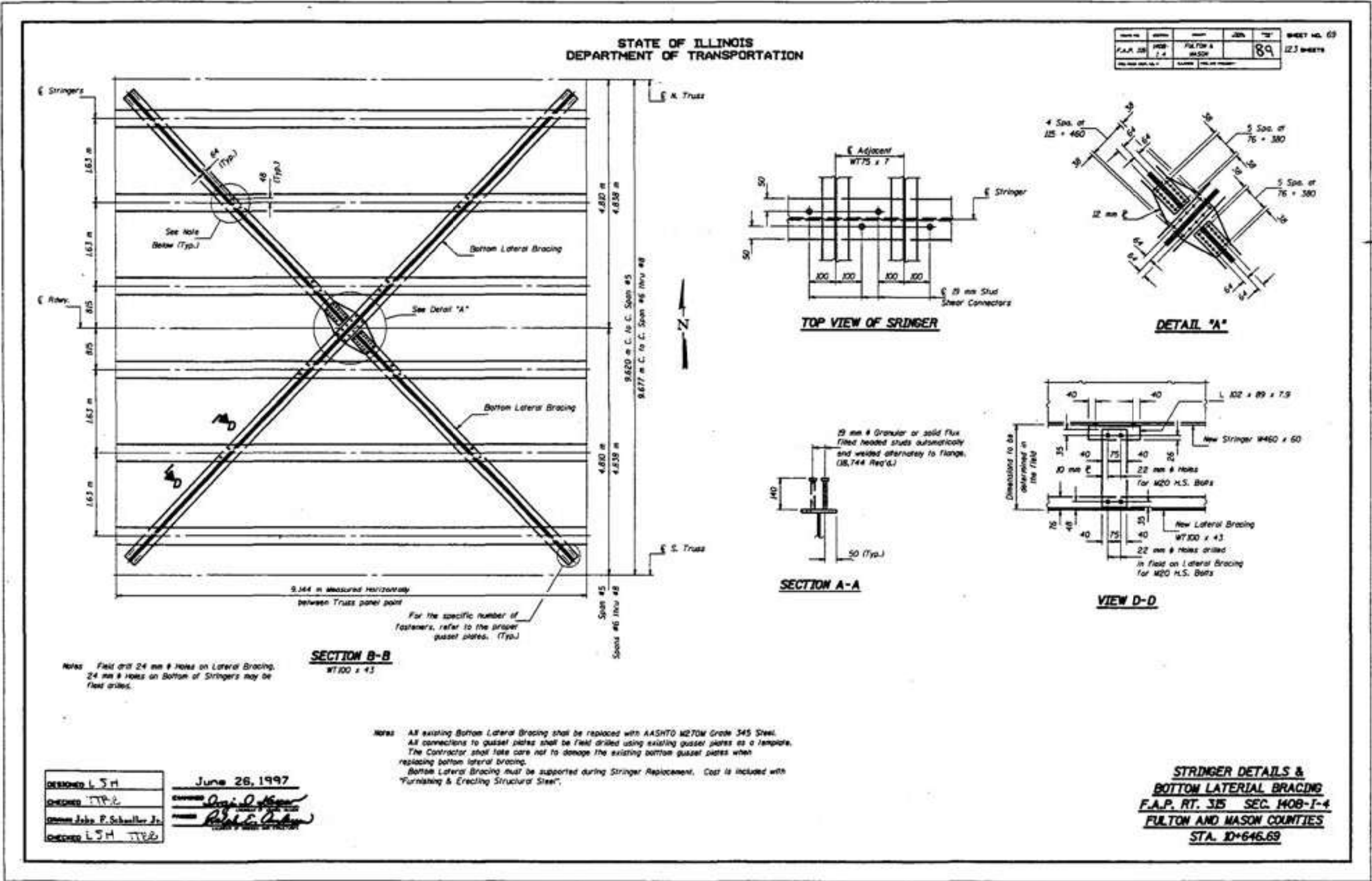
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

EXISTING 1997 PLANS
S.N. 063-0002 HAVANA BRIDGE OVER ILLINOIS RIVER

SHEET OF SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
315	(140-B-BR) BP,BRR	FULTON/MASON	163	136
CONTRACT NO. 68F50				
ILLINOIS FED. AID PROJECT				

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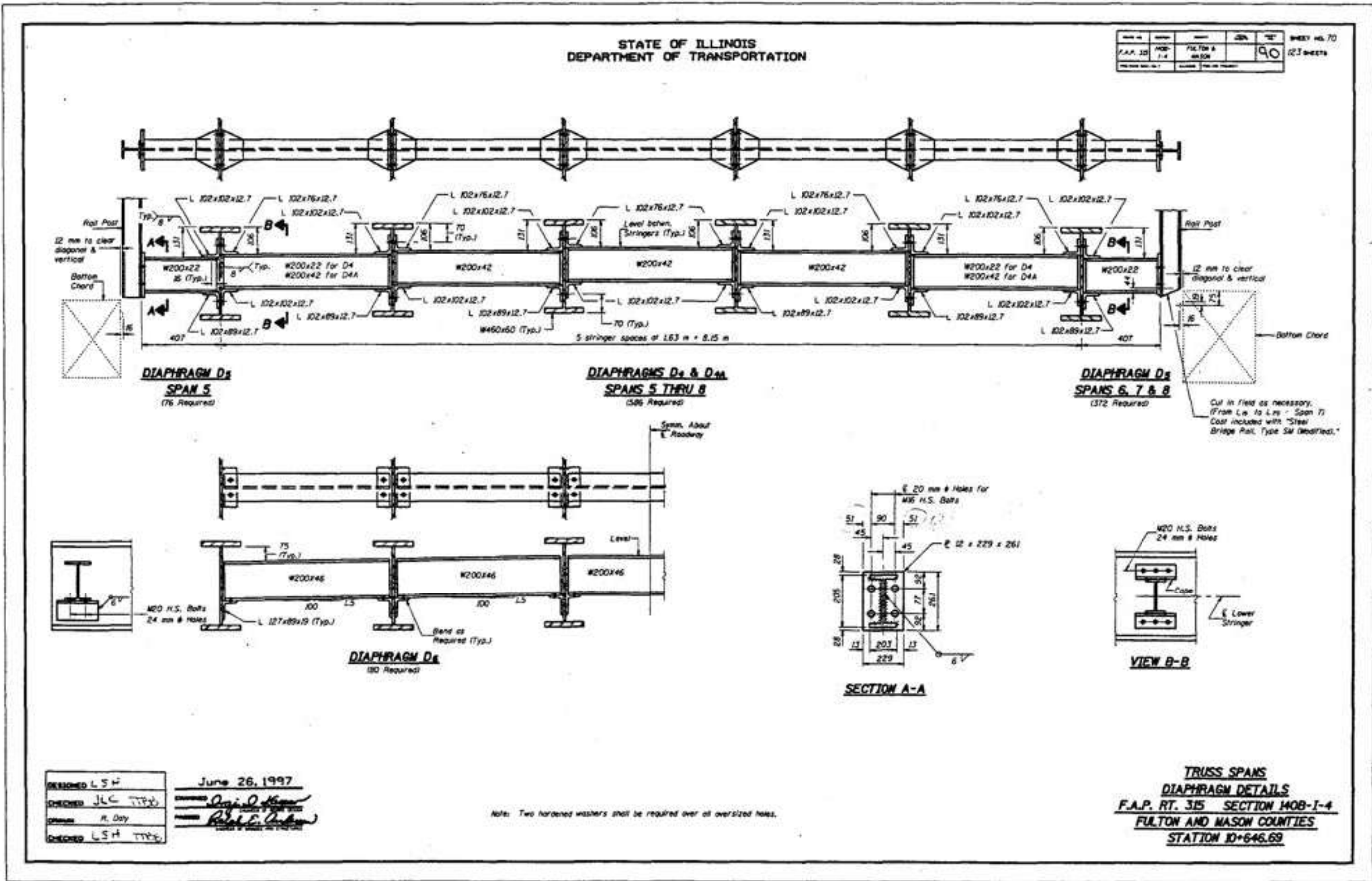
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

EXISTING 1997 PLANS
S.N. 063-0002 HAVANA BRIDGE OVER ILLINOIS RIVER

SHEET OF SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
315	(140-B-BR) BP,BRR	FULTON/MASON	163	137
				CONTRACT NO. 68F50
				ILLINOIS FED. AID PROJECT

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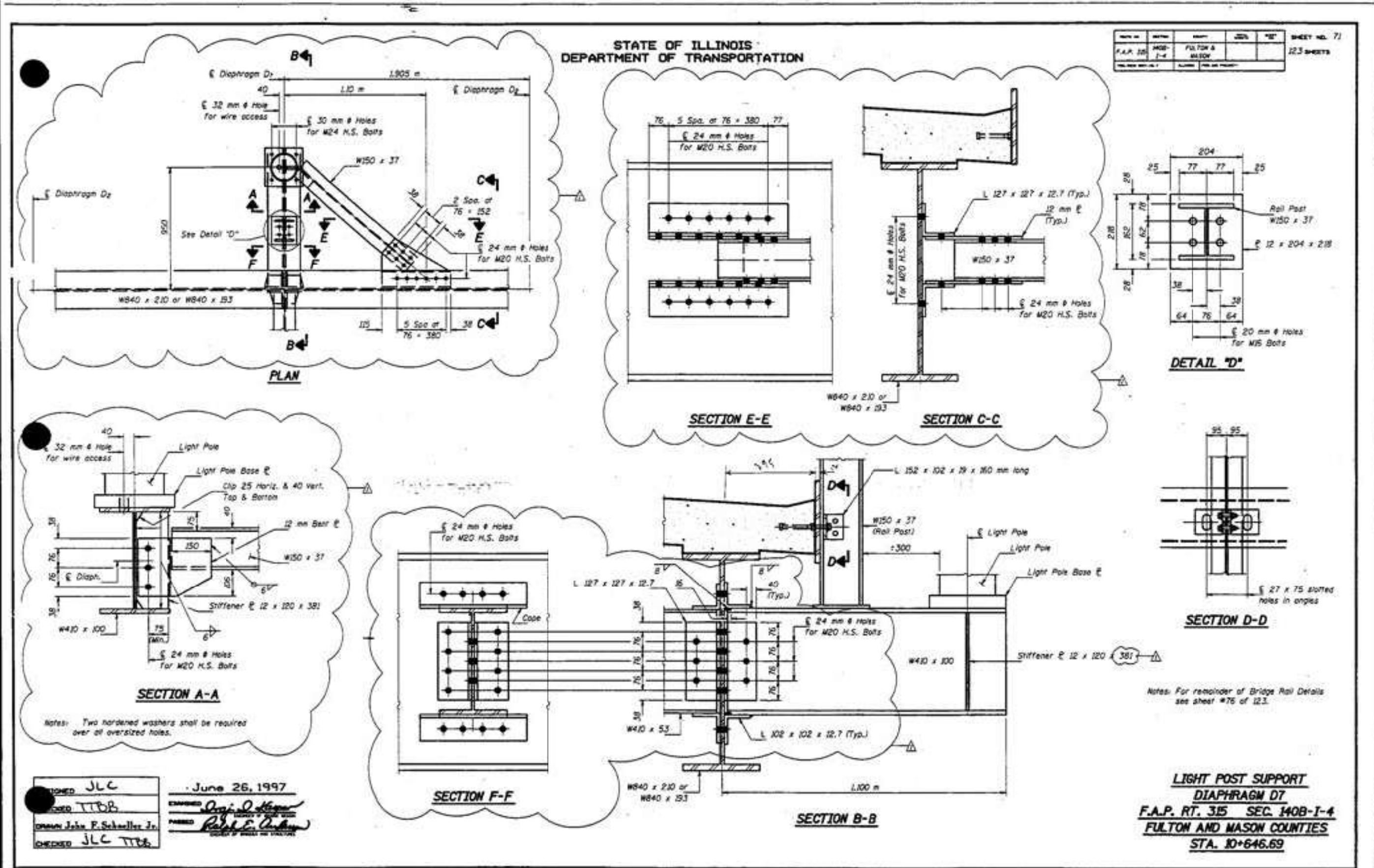
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

EXISTING 1997 PLANS
S.N. 063-0002 HAVANA BRIDGE OVER ILLINOIS RIVER

SHEET OF SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
315	(140-B-BR) BP,BRR	FULTON/MASON	163	138
CONTRACT NO. 68F50				
ILLINOIS FED. AID PROJECT				

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	CHECKED -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

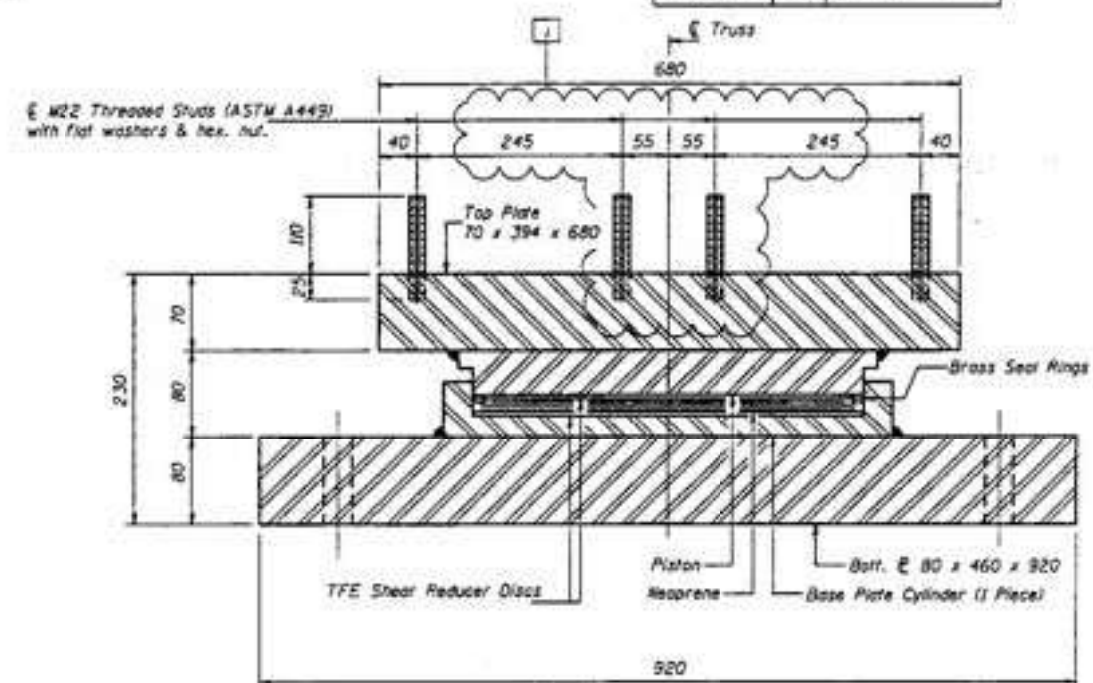
EXISTING 1997 PLANS
S.N. 063-0002 HAVANA BRIDGE OVER ILLINOIS RIVER

SHEET OF SHEETS

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CONTRACT NO. 68F50				
ILLINOIS FED. AID PROJECT				

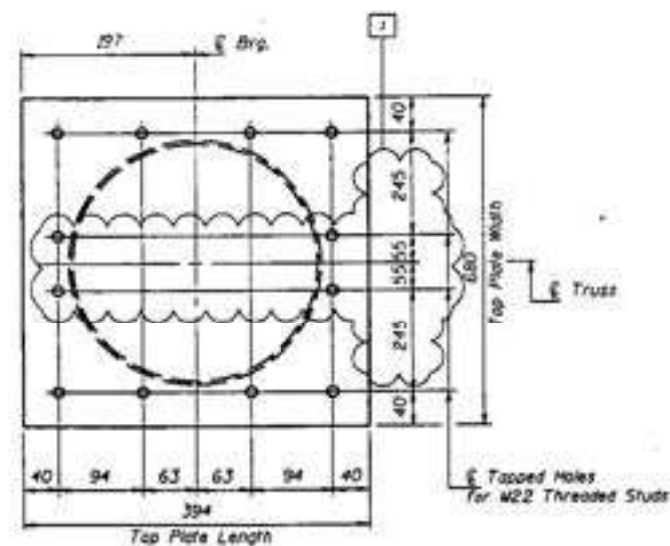
SY. NO.	SECTION	DETAIL	DATE	BY
F.A.R. 35	HOB-1-6	FILTON & ARSON		
PREPARED BY: (SY. NO. 1)		CHECKED BY: (SY. NO. 1)		

SHEET NO. 97
123 SHEETS

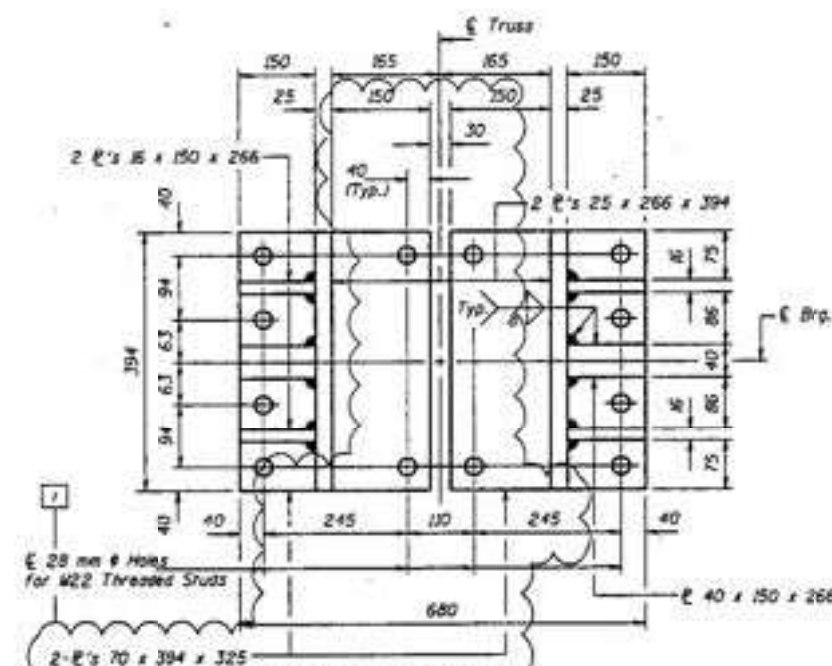


SECTION A-A

FIXED FLOATING BEARING
(2 Required)

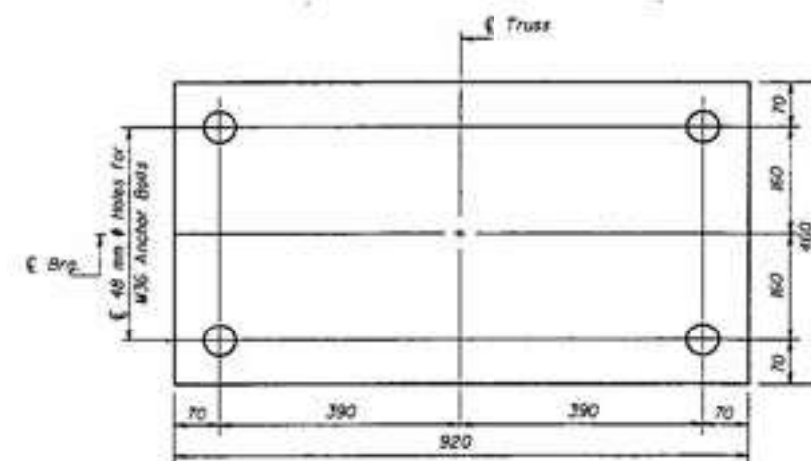


TOP BRG. & PLAN



STEEL BRACKET PLAN

Notes: All pieces of the Bearing Assembly and Steel Bracket shall be AASHTO M270M, Grade 345.
For anchor bolt installation details see sheet #123 of 123.
Provide 2-3 x 460 x 920 adjusting shims per bearing.
Quantity included with "Furnishing & Erecting Structural Steel."
Anchor Bolts may be built into the masonry.
Base plate thickness was determined by using a pad diameter of 368 mm.



BOTTOM BRG. & PLAN

BILL OF MATERIAL

Item	Unit	Total
Floating Bearings, Fixed 1750 kW	Each	2

BEARING DETAILS - PIER #4 (SPAN 5)
F.A.P. RT. 315 SECTION 140B-1-4
FULTON AND MASON COUNTIES
STATION 10+646.69

Revised 11-26-97 STD

DESIGNED	
CHECKED	
DRAWN	R. Doty
CHECKED	

June 26, 1997

EXAMINED By: J. L. Hagan
AGENCY OF ORIGIN SIGN
 PACKED Ralph E. Anderson
DATE OF PACKING AND INITIALS

c:\projects\rad000012\0630002a.dgn Dec. 04, 1997 14:30:28

FOR INFORMATION ONLY

USER NAME =	DESIGNED -	REVISED -
	CHECKED -	REVISED -
PLOT SCALE =	DRAWN -	REVISED -
PLOT DATE =	CHECKED -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

EXISTING 1997 PLANS
S.N. 063-0002 HAVANA BRIDGE OVER ILLINOIS RIVER

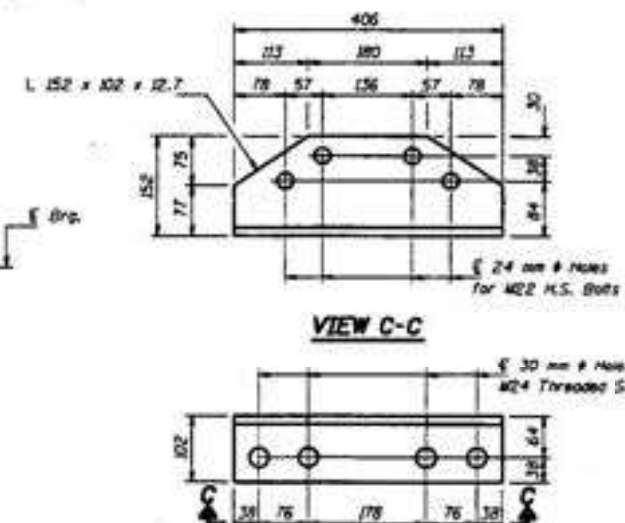
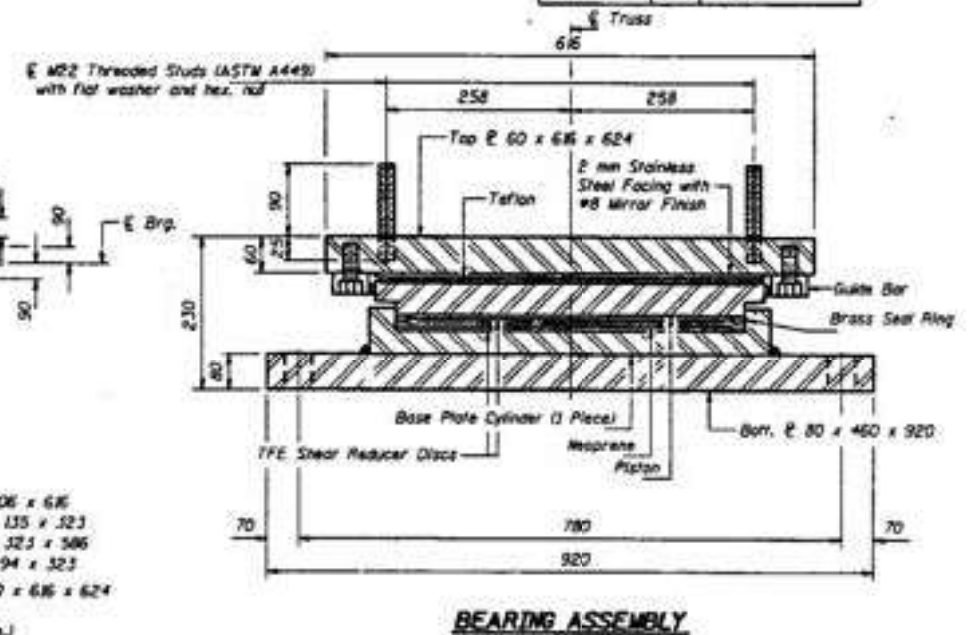
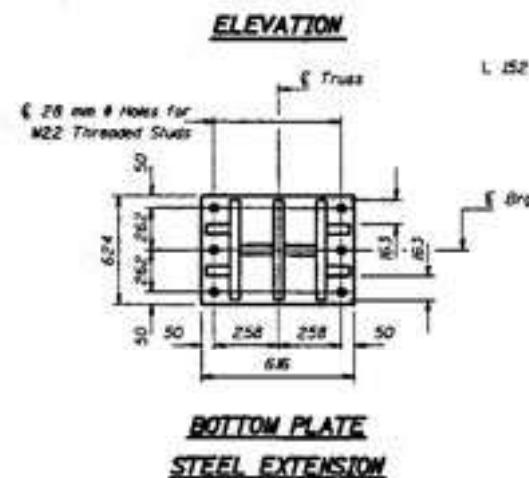
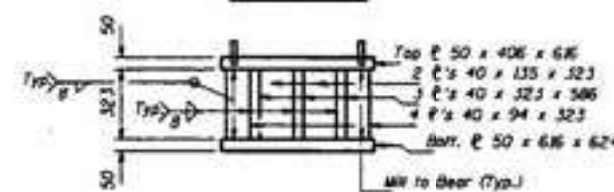
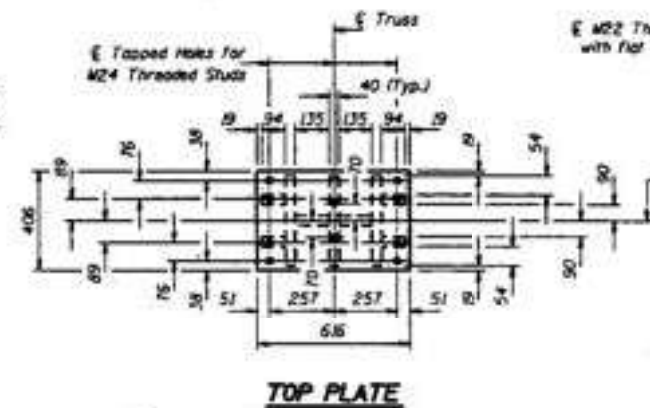
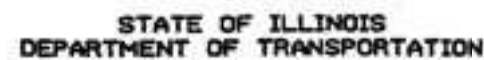
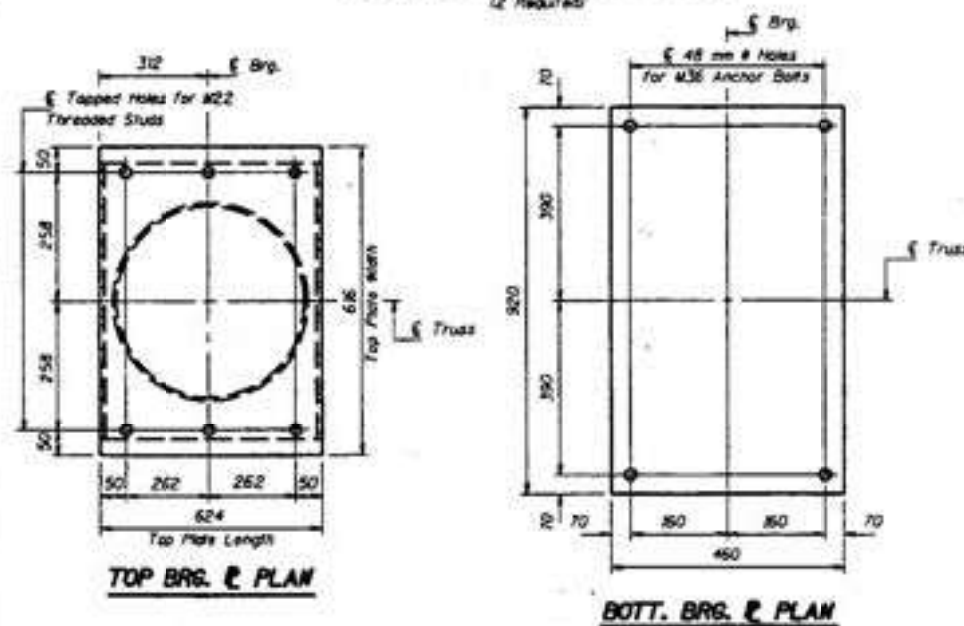
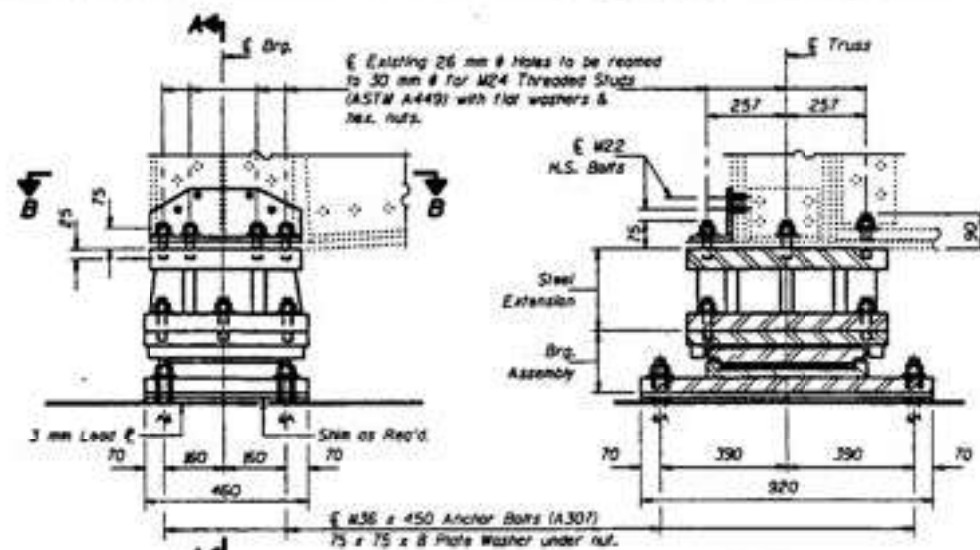
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
315	(140-B-BR) BP,BRR	FULTON/MASON	163	140
CONTRACT NO. 68F50				
ILLINOIS FED. AID PROJECT				

SHEET OF SHEETS

		CONTRACT
ILLINOIS	FED. AID PROJECT	

MODEL: SP-71
FILE NAME: S:\Engineering\Projects\Collins Engineers\2024\0022 Cedar St & Havana Phase II Engineering\400 CAD\405 Design\0630002-XXXXXX-SP-007.dgn





BEARING DATA	
Vertical (kN)	1795
Lateral Load (kN)	229
Expansion Length	237.7 m

Item	Unit	Total
Floating Bearings, Guided Expansion 2000 #	Each	2

BEARING DETAILS - PIER #5 (SPAN 6)
F.A.P. RT. 315 SECTION MOB-I-4
FULTON AND MASON COUNTIES
STATION 10+646.69

Notes: All plates of the Bearing Assembly and Steel Extension shall be AASHTO M270M, Grade 345.
For anchor bolt installation details see sheet #123 of 123.
Provide 2-3 x 460 x 920 adjusting shims per bearing. Quantity included with "Furnishing and Erecting Structural Steel."
Cost of reaming existing holes is included with "Furnishing & Erecting Structural Steel."
Base plate thickness was determined by using a pot diameter of 294 mm.

BELOW 10 °C
(Move bolt. brg. away from fixed brg.)

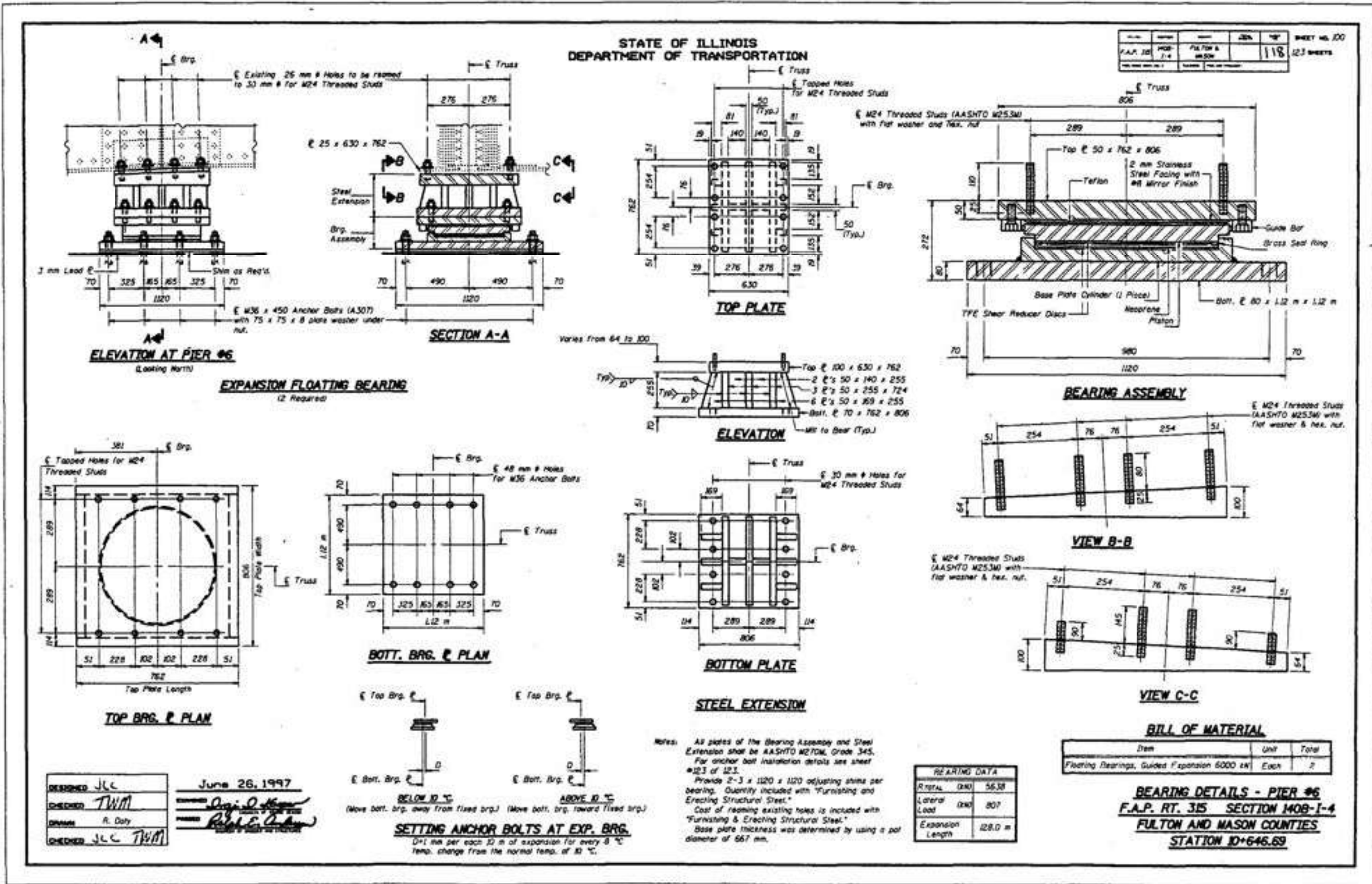
ABOVE 10 °C
(Move bolt. brg. toward fixed brg.)

SETTING ANCHOR BOLTS AT EXP. BRG.
0-1 mm per each 10 m of expansion for every 1 °C temp. change from the normal temp. of 10 °C.

DESIGNED	JLC
CHECKED	TRIM
DRAWN	R. Day
CHECKED	JLC TRIM

June 28, 1997
 EXHIBIT *Original of [illegible]*
 FILED *R. E. [illegible]*

MODEL: SP-74
FILE NAME: S:\Engineering\Projects\Collins Engineers\20240022 Cedar St. & Havana Phase II Engineering\400 CAD\405 Design\0630002-XXXXX-SP-007.dgn



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PLOT DATE =	DRAWN -	REVISED -
	CHECKED -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

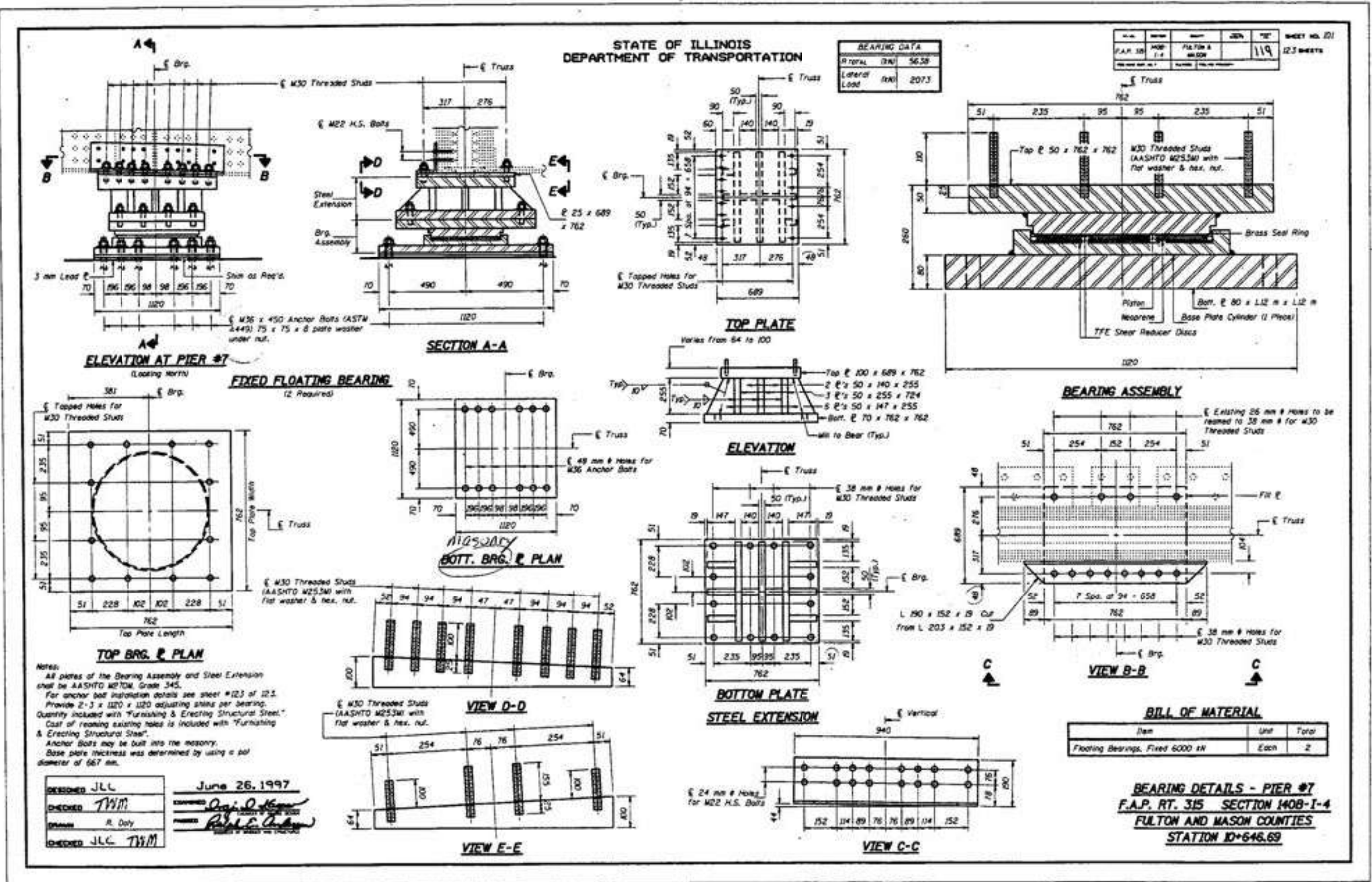
EXISTING 1997 PLANS
S.N. 063-0002 HAVANA BRIDGE OVER ILLINOIS RIVER

SHEET OF SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
315	(140-B-BR) BP,BRR	FULTON/MASON	163	143
CONTRACT NO. 68F50				
ILLINOIS FED. AID PROJECT				

FOR INFORMATION ONLY

MODEL: SP-75
FILE NAME: S:\Engineering\Projects\Collins Engineers\20240022 Cedar St. & Havana Phase II Engineering\400 CAD\405 Design\0630002-XXXXX-SP-007.dgn



FOR INFORMATION ONLY

USER NAME =	DESIGNED -	REVISED -
PLOT SCALE =	CHECKED -	REVISED -
PLOT DATE =	DRAWN -	REVISED -
	CHECKED -	REVISED -

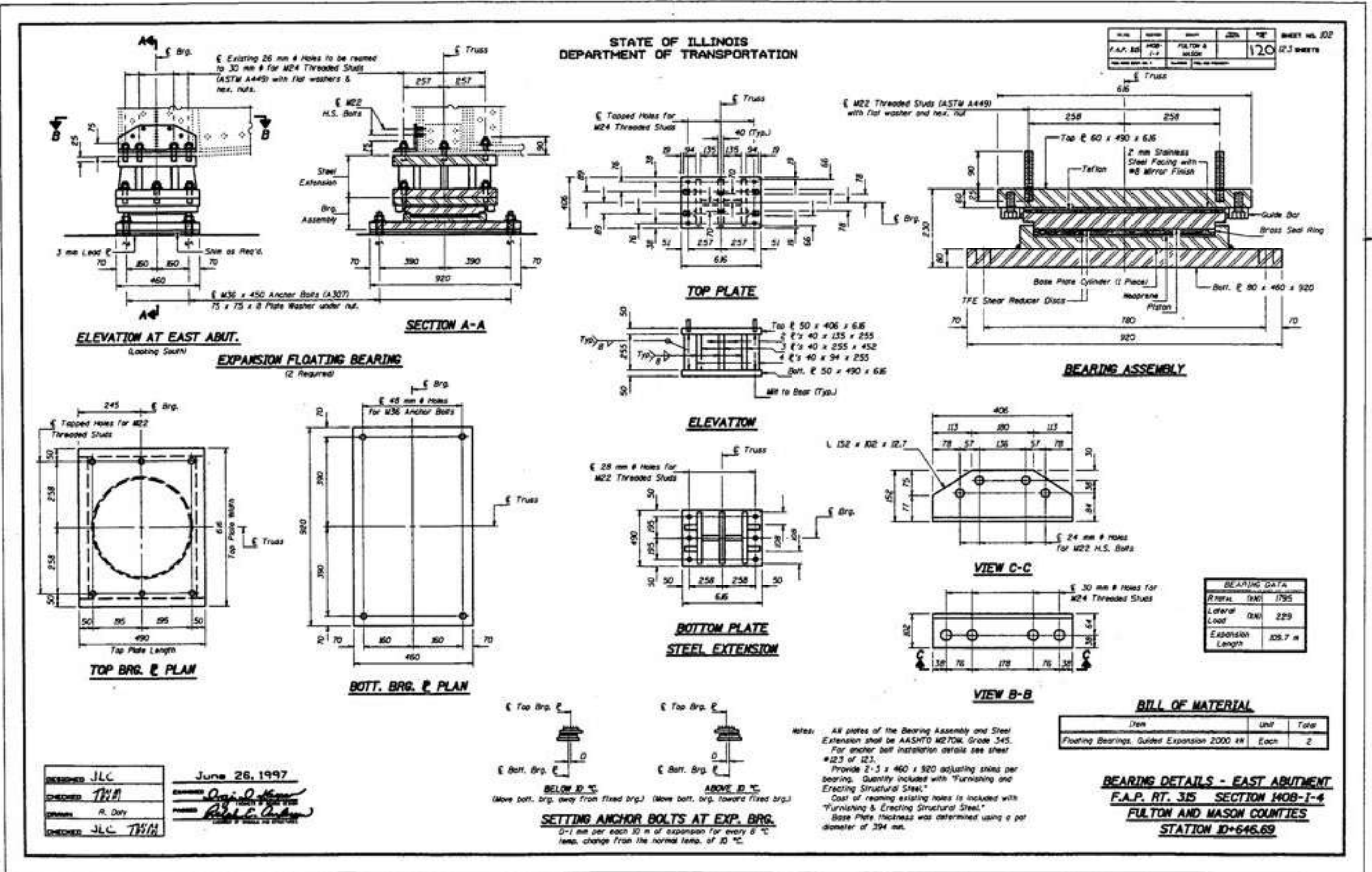
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

EXISTING 1997 PLANS
S.N. 063-0002 HAVANA BRIDGE OVER ILLINOIS RIVER

SHEET OF SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
315	(140-B-BR) BP,BRR	FULTON/MASON	163	144
CONTRACT NO. 68F50				
ILLINOIS FED. AID PROJECT				

MODEL: SP-76
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FOR INFORMATION ONLY

USER NAME =	DESIGNED -	REVISED -
PLOT SCALE =	CHECKED -	REVISED -
PLOT DATE =	DRAWN -	REVISED -
	CHECKED -	REVISED -

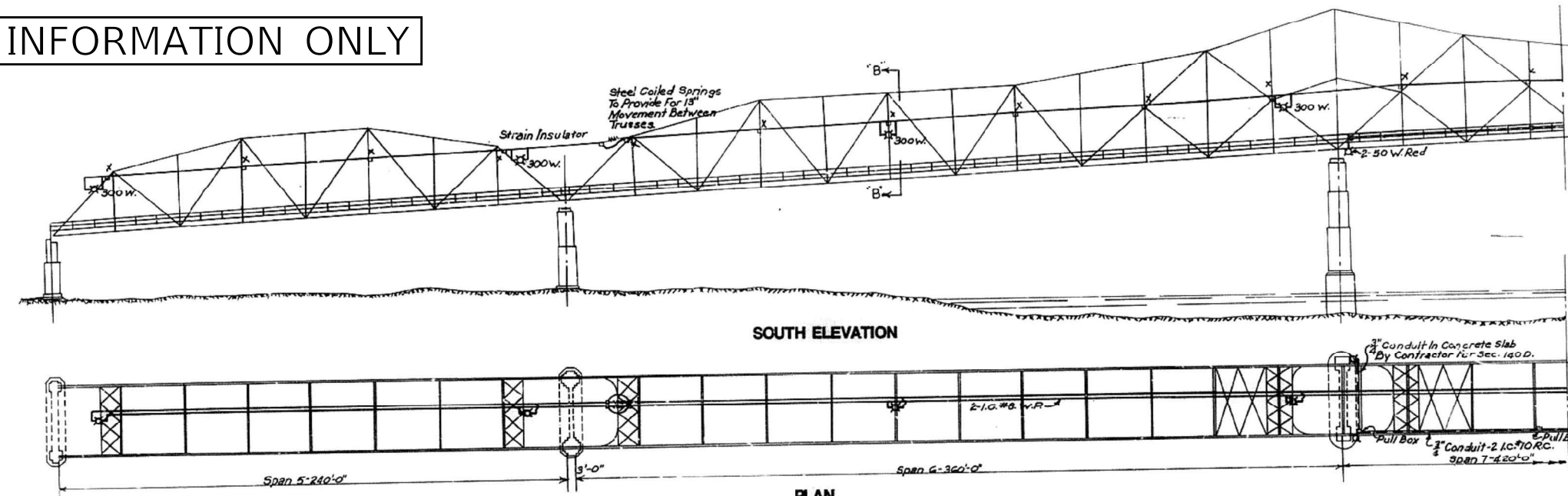
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

EXISTING 1997 PLANS
S.N. 063-0002 HAVANA BRIDGE OVER ILLINOIS RIVER

SHEET OF SHEETS

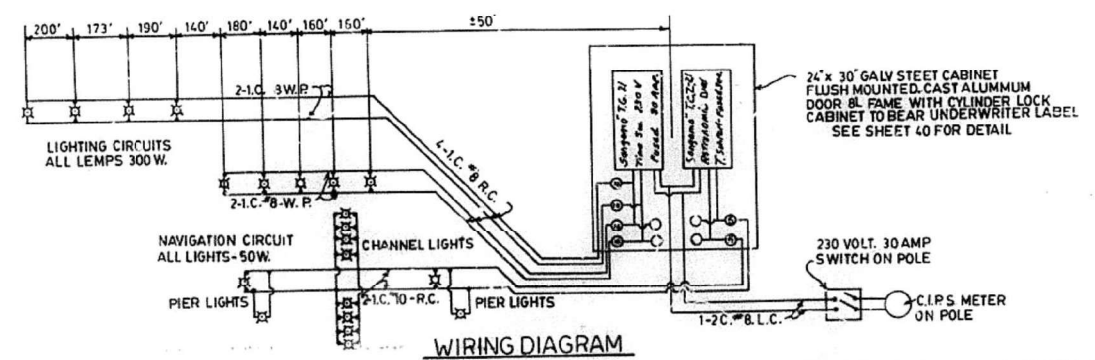
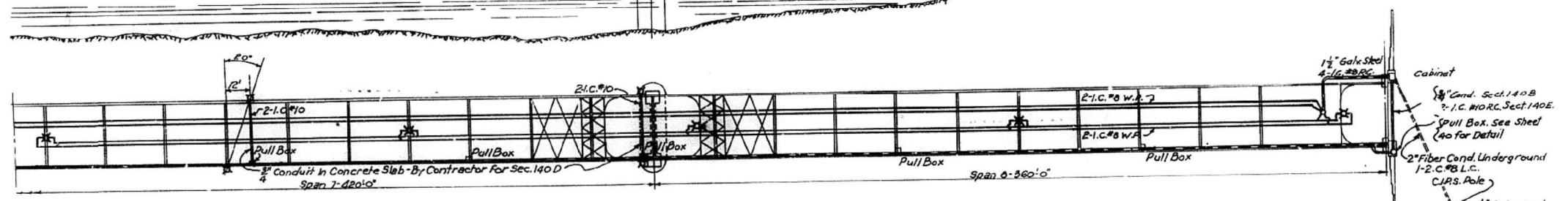
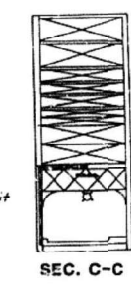
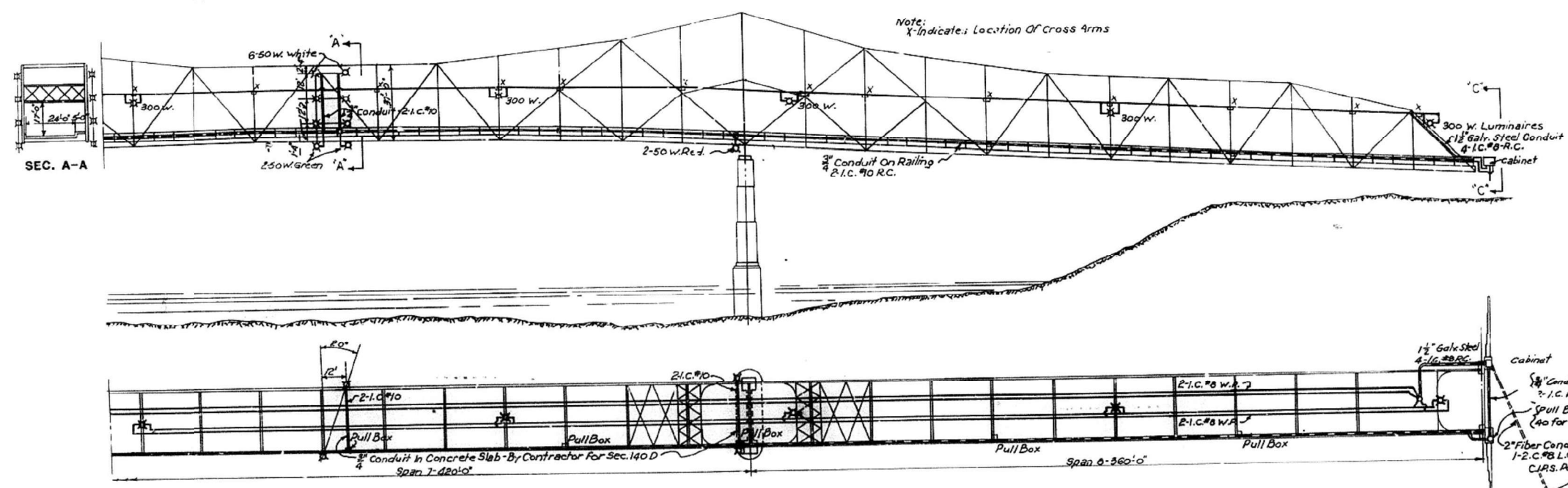
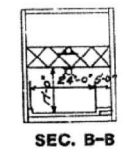
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
315	(140-B-BR) BP,BRR	FULTON/MASON	163	145
CONTRACT NO. 68F50				
ILLINOIS FED. AID PROJECT				

FOR INFORMATION ONLY



6	6
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* F.A. 53
(140 B)HL
FULTON-MASON



EXISTING LIGHTING DETAILS
ILLINOIS RIVER BRIDGE
HAVANA, ILL'NOIS

DISTRICT NO. 4 PEORIA
DESIGNED
DRAWN
CHECKED
DATE
SCALE

LIGHTING SHEET 1 OF 18
NOT TO SCALE

USER NAME = trevor.hanson	DESIGNED -	REVISED -
	DRAWN -	REVISED -
PLOT SCALE = 28.0523 * / in.	CHECKED -	REVISED -
PLOT DATE = 4/15/2025	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

EXISTING LIGHTING PLANS				
SCALE:	SHEET	OF	SHEETS	STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
315	(140-B-BR)BP,BRR	MASON	163	146
CONTRACT NO. 68F50				
ILLINOIS FED. AID PROJECT				

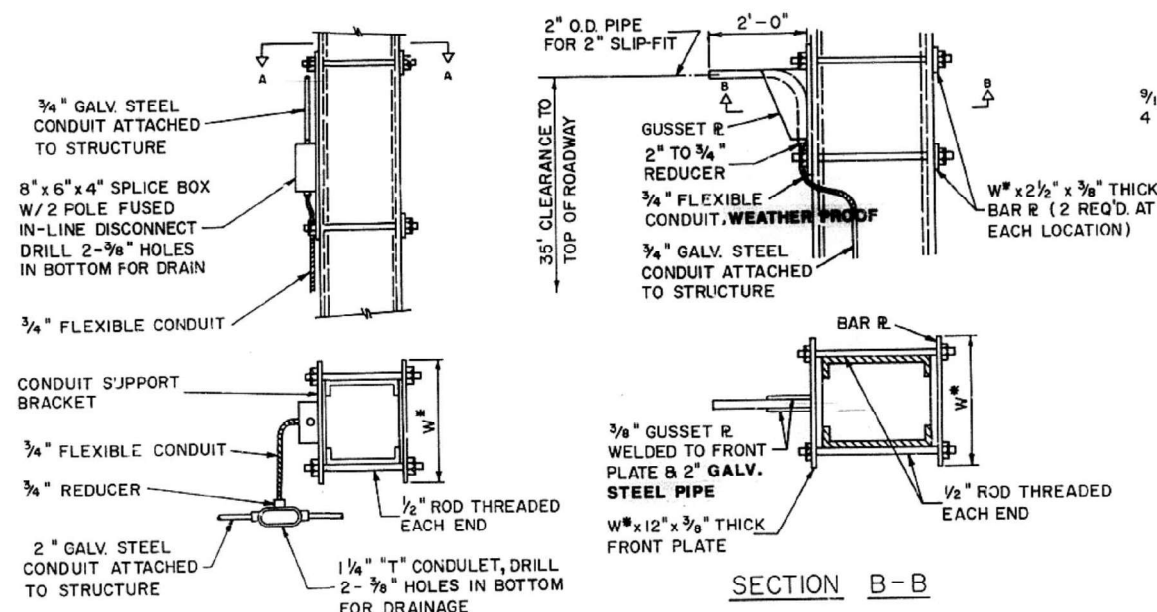
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FOR INFORMATION ONLY

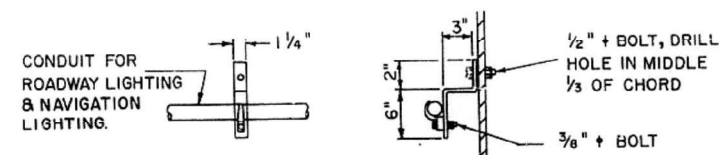
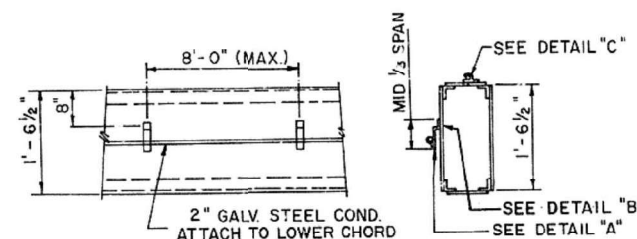
ROUTE	SECTION	COUNTY	TOT. SHTS.	SHEET #
F.A. 53	*		6	4

SHEET #
SHEETS

* (140 B)HL
FULTON-MASON

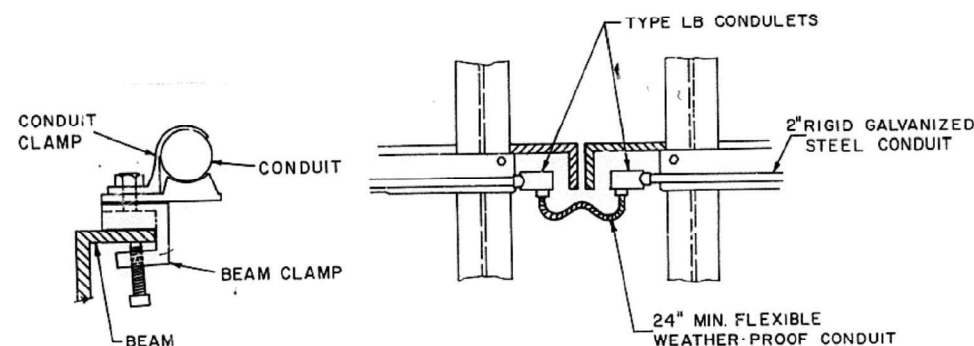


MAST ARM MOUNTING DETAILS



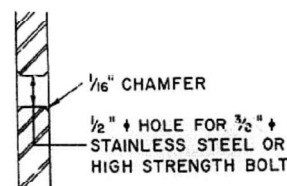
**ALTERNATE
CONDUIT SUPPORT BRACKET**
CONDUIT CLAMPS SHALL BE MALLEABLE IRON. BOLTS, LOCKNUTS, AND WASHERS SHALL BE STAINLESS STEEL. 1/4" STEEL BRACKET SHALL BE HOT-DIPPED GALVANIZED AFTER FABRICATION. LOCATE ON 8'-0" CENTERS.

DETAIL "A"

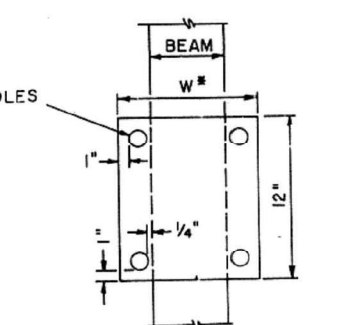


EXPANSION JOINT DETAIL
*USE SAME METHOD TO BYPASS OTHER OBSTRUCTIONS.

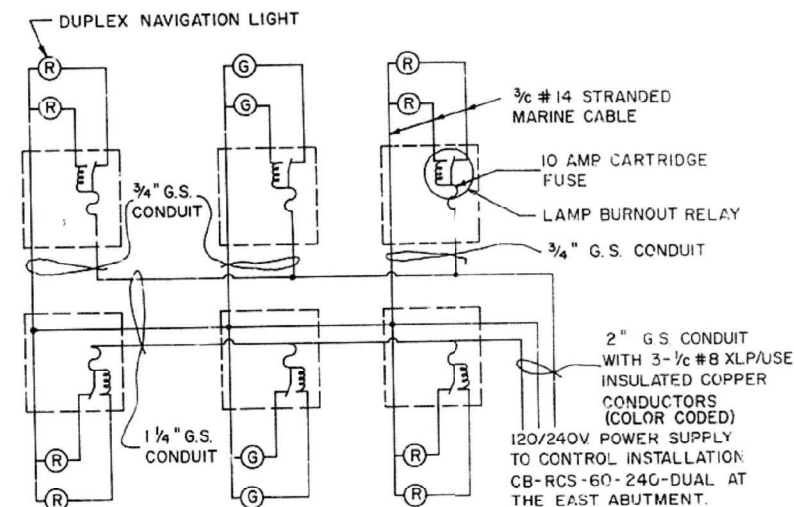
DETAIL "C"



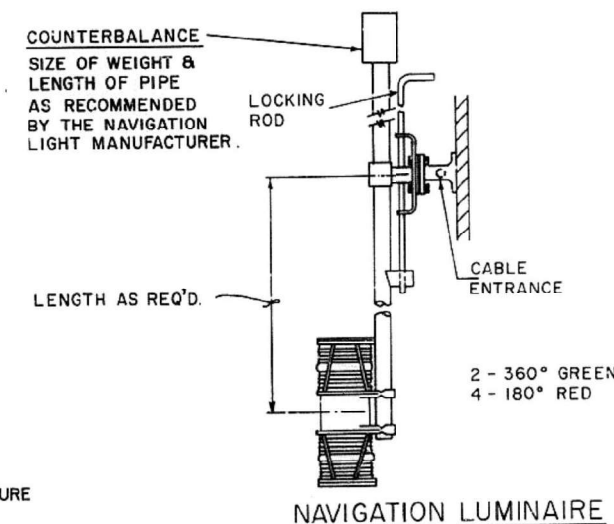
DETAIL "B"



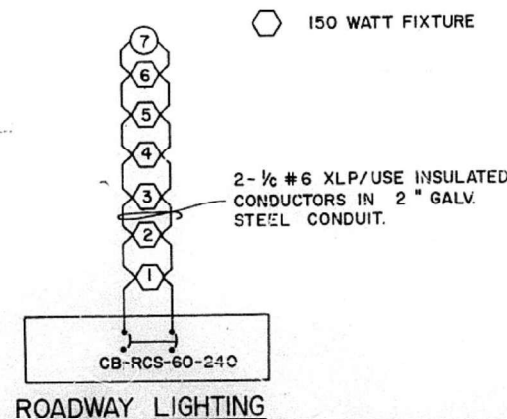
* DIMENSION W = WIDTH OF BEAM + 3 3/8"
FRONT PLATE DETAIL



WIRING DIAGRAM-NAVIGATION LIGHTING



**NOTE: ALL FLEXIBLE CONDUIT
TO BE WEATHER PROOF.**



ROADWAY LIGHTING

DRAWN	MARCH 29, 1983
BY	J. L. PUTNAM
REV.	J.L.P. 1-16-87

BRIDGE LIGHTING DETAILS
F. A. ROUTE 53
SECTION (140 B) HL
FULTON & MASON COUNTIES

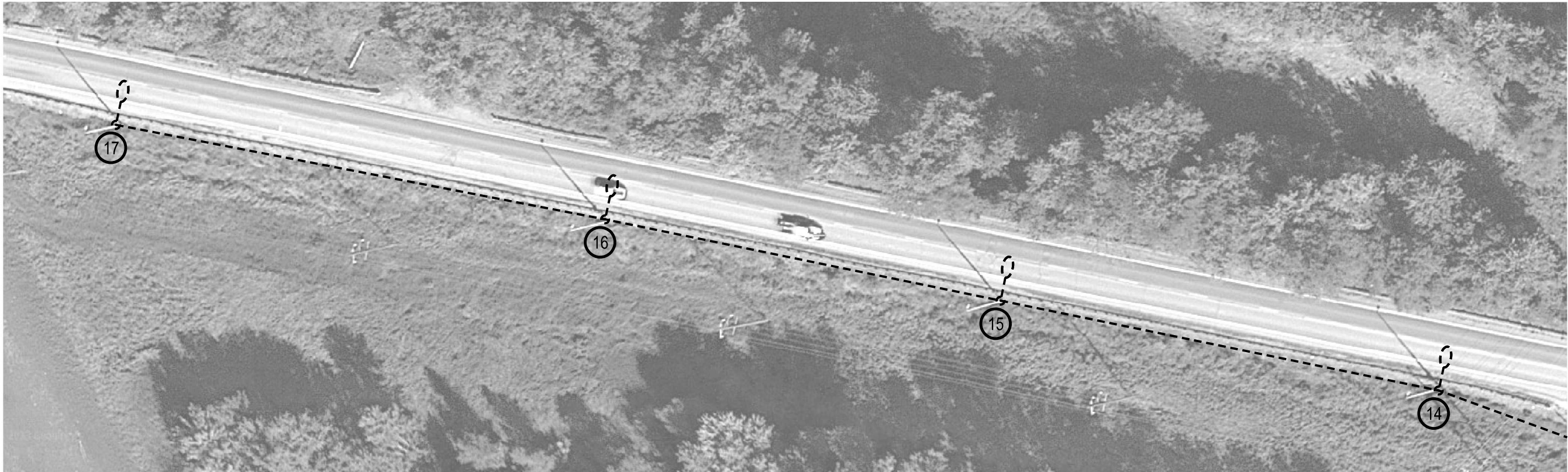
USER NAME = trevor.hanson	DESIGNED -	REVISED -
DRAWN -	REVISOR -	
PLOT SCALE = 28,0523 * / in.	CHECKED -	REVISED -
PLOT DATE = 4/15/2025	DATE -	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

EXISTING LIGHTING PLANS - CONTINUED

SCALE: SHEET OF SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
315	(140-B-BR)BP,BRR	MASON	163	148
CONTRACT NO. 68F50				
ILLINOIS FED. AID PROJECT				



BILL OF MATERIALS		
ITEM DESCRIPTION	UNIT	QTY.
REMOVE EXISTING LIGHTING SYSTEM	L SUM	1.0

"R" INDICATES REMOVAL ITEM

LEGEND	
	EXISTING LUMINAIRE AND LIGHT POLE
	EXISTING LUMINAIRE ATTACHED TO STRUCTURE
	EXISTING JUNCTION BOX ATTACHED TO STRUCTURE
	EXISTING WATERWAY OBSTRUCTION WARNING LUMINAIRE (GREEN 360°)
	EXISTING WATERWAY OBSTRUCTION WARNING LUMINAIRE (RED 180°)
	EXISTING WOOD POLE
	EXISTING LIGHTING CONTROLLER
	EXISTING ELECTRICAL SERVICE
	EXISTING UNIT DUCT
	EXISTING CONDUIT ATTACHED TO STRUCTURE
"R"	REMOVAL ITEM
	EXISTING ROADWAY LUMINAIRE NUMBER
	EXISTING WATERWAY OBSTRUCTION WARNING LUMINAIRE LABEL

REMOVE EXISTING LIGHTING SYSTEM - QTY. 1.0 LUMP SUM
(INCLUDES ALL ITEMS LISTED BELOW)

THE FOLLOWING ITEMS SHALL BE REMOVED AND DISPOSED OF BY THE CONTRACTOR OFF OF THE RIGHT-OF-WAY:

QTY.	ITEM
1.0	LIGHTING CONTROLLER CABINET (BASE MOUNTED)
3.0	ALUMINUM LIGHT POLE, 35 FT. MH, DAVIT ARM
1.0	ELECTRIC SERVICE
2.0	NAVIGATION LUMINAIRE 360 DEGREE GREEN & REFLECTOR
2.0	NAVIGATION LUMINAIRE 180 DEGREE RED & REFLECTOR
ALL	EXISTING NAVIGATION LIGHTING EQUIPMENT
ALL	ELECTRICAL CABLE IN CONDUIT (NOT USED IN PROPOSED PLANS)
ALL	CONDUIT, JUNCTION BOXES, ATTACHMENT BRACKETS (NOT USED IN PROPOSED PLANS)

THE FOLLOWING ITEMS SHALL BE REMOVED AND DELIVERED TO IDOT TRAFFIC BUILDING AT 1025 W. DETWEILLER DR. PEORIA, IL 61615:

QTY.	ITEM
12.0	LED LUMINAIRE

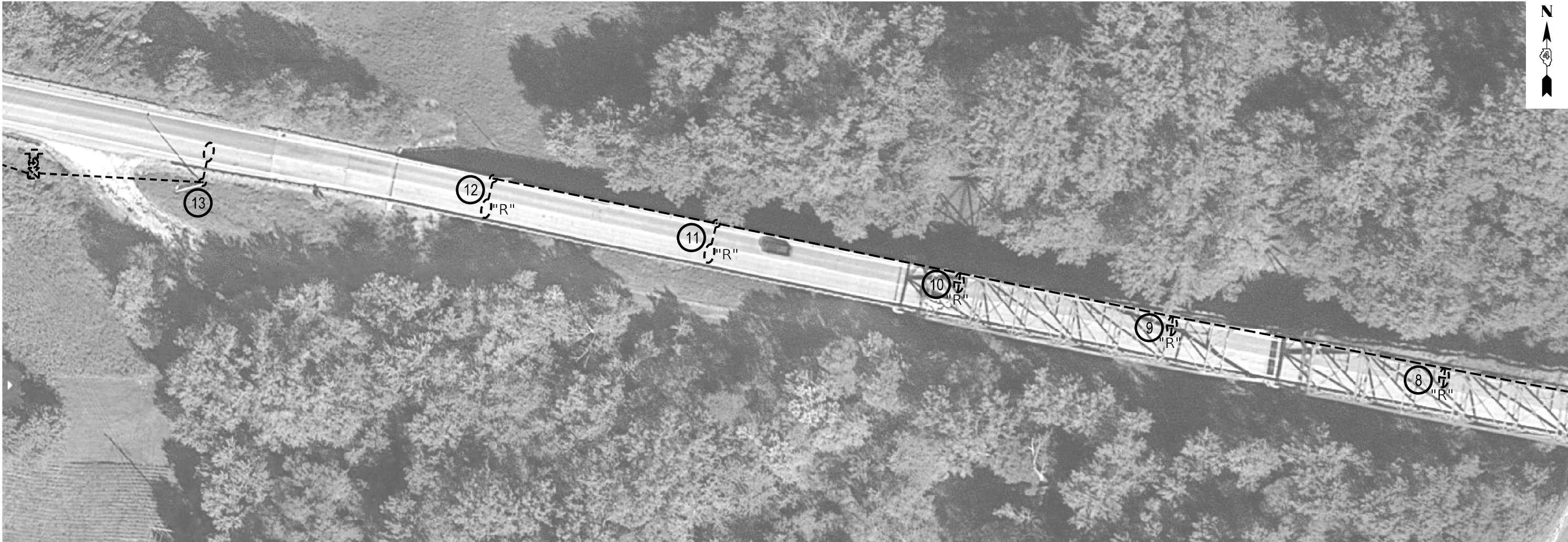
NOTE:
LIGHT POLES 13, 14, 15, 16, & 17 SHALL NOT BE INCLUDED IN THIS PROJECT AND ARE THE RESPONSIBILITY OF THE CITY OF HAVANA.

LIGHTING SHEET 5 OF 18

NOT TO SCALE

MODEL: 310001
FILE: 310001.DWG

USER NAME = \$USERS PLOT SCALE = \$SCALE\$ PLOT DATE = \$DATE\$	DESIGNED - _____	REVISED - _____	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	LIGHTING REMOVAL PLANS		F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	DRAWN - _____	REVISED - _____							163	150
	CHECKED - _____	REVISED - _____				CONTRACT NO.				
	DATE - _____	REVISED - _____				ILLINOIS FED. AID PROJECT				
		SCALE: _____	SHEET _____ OF _____ SHEETS	STA. _____	TO STA. _____					

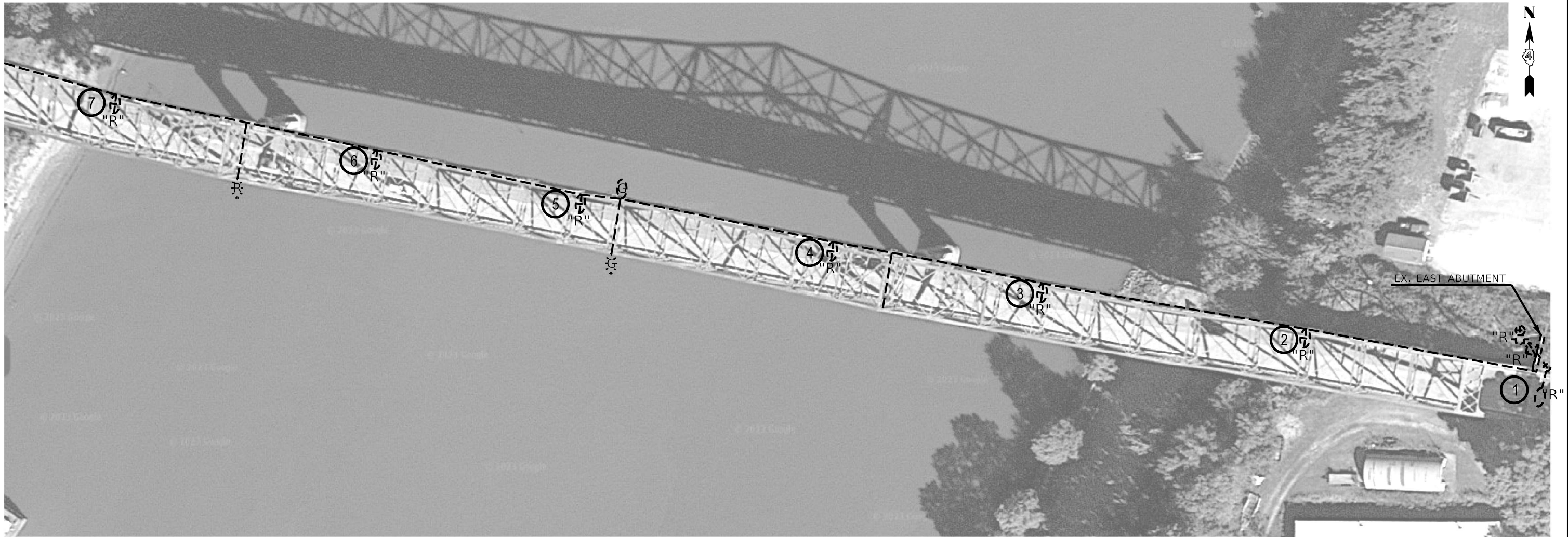


"R" INDICATES REMOVAL ITEM

LEGEND	
	EXISTING LUMINAIRE AND LIGHT POLE
	EXISTING LUMINAIRE ATTACHED TO STRUCTURE
	EXISTING JUNCTION BOX ATTACHED TO STRUCTURE
	EXISTING WATERWAY OBSTRUCTION WARNING LUMINAIRE (GREEN 360°)
	EXISTING WATERWAY OBSTRUCTION WARNING LUMINAIRE (RED 180°)
	EXISTING WOOD POLE
	EXISTING LIGHTING CONTROLLER
	EXISTING ELECTRICAL SERVICE
	EXISTING UNIT DUCT
	EXISTING CONDUIT ATTACHED TO STRUCTURE
"R"	REMOVAL ITEM
	EXISTING ROADWAY LUMINAIRE NUMBER
	EXISTING WATERWAY OBSTRUCTION WARNING LUMINAIRE LABEL

NOTE:
LIGHT POLES 13, 14, 15, 16, & 17 SHALL NOT
BE INCLUDED IN THIS PROJECT AND ARE THE
RESPONSIBILITY OF THE CITY OF HAVANA.

	USER NAME = \$USERS	DESIGNED - _____	REVISED - _____	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	LIGHTING REMOVAL PLANS - CONTINUED	SCALE: _____	SHEET _____ OF _____ SHEETS	STA. _____ TO STA. _____	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	PLOT SCALE = \$SCALE\$	CHECKED - _____	REVISED - _____									163	151
	PLOT DATE = \$DATE\$	DATE - _____	REVISED - _____						CONTRACT NO.				
									ILLINOIS FED. AID PROJECT				



"R" INDICATES REMOVAL ITEM

LEGEND

- EXISTING LUMINAIRE AND LIGHT POLE
- EXISTING LUMINAIRE ATTACHED TO STRUCTURE
- EXISTING JUNCTION BOX ATTACHED TO STRUCTURE
- EXISTING WATERWAY OBSTRUCTION WARNING LUMINAIRE (GREEN 360°)
- EXISTING WATERWAY OBSTRUCTION WARNING LUMINAIRE (RED 180°)
- EXISTING WOOD POLE
- EXISTING LIGHTING CONTROLLER
- EXISTING ELECTRICAL SERVICE
- EXISTING UNIT DUCT
- EXISTING CONDUIT ATTACHED TO STRUCTURE
- "R" REMOVAL ITEM
- EXISTING ROADWAY LUMINAIRE NUMBER
- EXISTING WATERWAY OBSTRUCTION WARNING LUMINAIRE LABEL

MODEL: \\MODEL\NAMES
FILE: \\NAMES\STYLES

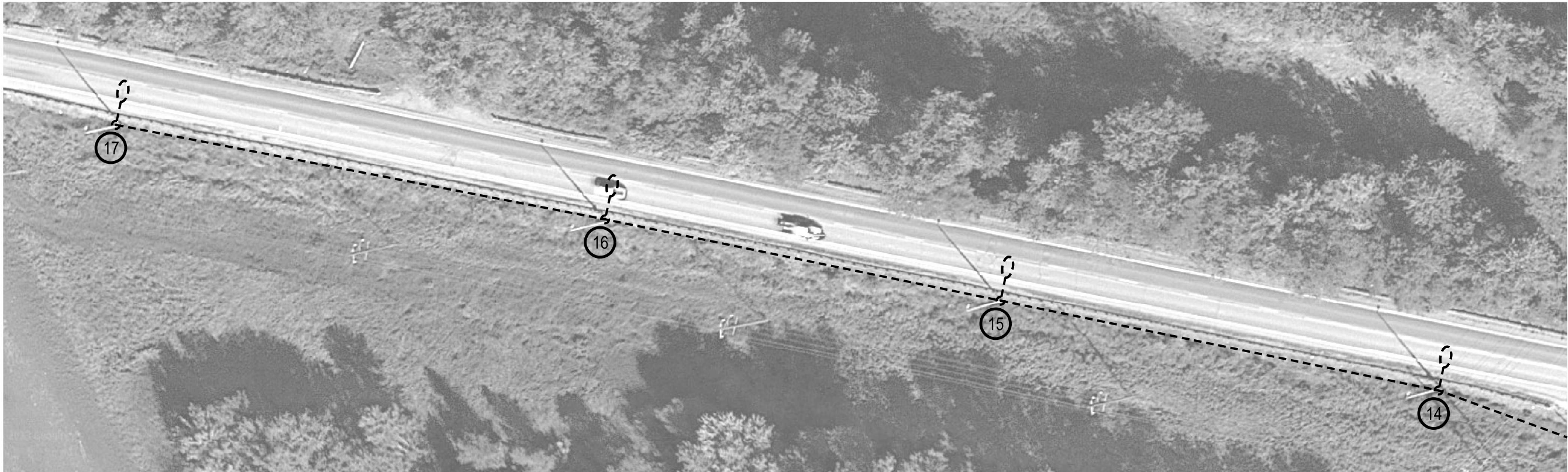
	USER NAME = \$USERS	DESIGNED - _____	REVISED - _____	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	LIGHTING REMOVAL PLANS - CONTINUED		F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	PLOT SCALE = \$SCALE\$	CHECKED - _____	REVISED - _____							163	152
	PLOT DATE = \$DATE\$	DATE - _____	REVISED - _____		SCALE: _____ SHEET _____ OF _____ SHEETS STA. _____ TO STA. _____		CONTRACT NO.				
							ILLINOIS FED. AID PROJECT				

PROPOSED LUMINAIRE SCHEDULE								
LUMINAIRE NO.	TYPE	LOCATION	PROP. LIGHT POLE	FOUNDATION TYPE	MOUNTING HEIGHT (FT.)	LUMINAIRE MT BRKT SPL (QTY.)	LUMINAIRE TYPE (QTY.)	INSTALLATION NOTES
1	ROADWAY	PROP. LIGHT POLE	GALVANIZED STEEL, 35 FT., TENON MOUNT	EX. CONCRETE FOUNDATION	35.0	1.0	LUM LED RDWY G (1.0)	FURNISH AND INSTALL NEW POLE WIRING, FUSES, FUSEHOLDERS, SURGE ARRESTORS, INSTALL ON EX. CONCRETE FOUNDATION
2	ROADWAY	VERTICAL MEMBER	N/A	N/A	30.0		LUM LED RDWY G (1.0)	FURNISH AND INSTALL NEW POLE WIRING, FUSES, FUSEHOLDERS, SURGE ARRESTORS, INSTALL ON EX. BRACKET ARM
3	ROADWAY	VERTICAL MEMBER	N/A	N/A	30.0		LUM LED RDWY G (1.0)	FURNISH AND INSTALL NEW POLE WIRING, FUSES, FUSEHOLDERS, SURGE ARRESTORS, INSTALL ON EX. BRACKET ARM
A	WATERWAY OBSTRUCTION WARNING LIGHT	EX. PIER #7	N/A	N/A	N/A		WWOWL LED 180 D R (1.0)	FURNISH AND INSTALL NEW WATERWAY OBSTRUCTION WARNING LIGHT SYSTEM
B	WATERWAY OBSTRUCTION WARNING LIGHT	EX. PIER #7	N/A	N/A	N/A		WWOWL LED 180 D R (1.0)	FURNISH AND INSTALL NEW WATERWAY OBSTRUCTION WARNING LIGHT SYSTEM
4	ROADWAY	VERTICAL MEMBER	N/A	N/A	30.0		LUM LED RDWY G (1.0)	FURNISH AND INSTALL NEW POLE WIRING, FUSES, FUSEHOLDERS, SURGE ARRESTORS, INSTALL ON EX. BRACKET ARM
C	WATERWAY OBSTRUCTION WARNING LIGHT	STA. 349+30	N/A	N/A	N/A		WWOWL LED 360 D G (1.0)	FURNISH AND INSTALL NEW WATERWAY OBSTRUCTION WARNING LIGHT SYSTEM
D	WATERWAY OBSTRUCTION WARNING LIGHT	STA. 349+30	N/A	N/A	N/A		WWOWL LED 360 D G (1.0)	FURNISH AND INSTALL NEW WATERWAY OBSTRUCTION WARNING LIGHT SYSTEM
5	ROADWAY	VERTICAL MEMBER	N/A	N/A	30.0		LUM LED RDWY G (1.0)	FURNISH AND INSTALL NEW POLE WIRING, FUSES, FUSEHOLDERS, SURGE ARRESTORS, INSTALL ON EX. BRACKET ARM
6	ROADWAY	VERTICAL MEMBER	N/A	N/A	30.0		LUM LED RDWY G (1.0)	FURNISH AND INSTALL NEW POLE WIRING, FUSES, FUSEHOLDERS, SURGE ARRESTORS, INSTALL ON EX. BRACKET ARM
E	WATERWAY OBSTRUCTION WARNING LIGHT	EX. PIER #6	N/A	N/A	N/A		WWOWL LED 180 D R (1.0)	FURNISH AND INSTALL NEW WATERWAY OBSTRUCTION WARNING LIGHT SYSTEM
F	WATERWAY OBSTRUCTION WARNING LIGHT	EX. PIER #6	N/A	N/A	N/A		WWOWL LED 180 D R (1.0)	FURNISH AND INSTALL NEW WATERWAY OBSTRUCTION WARNING LIGHT SYSTEM
9	ROADWAY	VERTICAL MEMBER	N/A	N/A	30.0		LUM LED RDWY G (1.0)	FURNISH AND INSTALL NEW POLE WIRING, FUSES, FUSEHOLDERS, SURGE ARRESTORS, INSTALL ON EX. BRACKET ARM
10	ROADWAY	VERTICAL MEMBER	N/A	N/A	30.0		LUM LED RDWY G (1.0)	FURNISH AND INSTALL NEW POLE WIRING, FUSES, FUSEHOLDERS, SURGE ARRESTORS, INSTALL ON EX. BRACKET ARM
11	ROADWAY	PROP. LIGHT POLE	GALVANIZED STEEL, 35 FT., TENON MOUNT	EX. ANCHOR BOLTS ON STRUCTURE	35.0	1.0	LUM LED RDWY G (1.0)	FURNISH AND INSTALL NEW POLE WIRING, FUSES, FUSEHOLDERS, SURGE ARRESTORS, INSTALL ON EX. STRUCTURE MOUNTED ANCHOR BOLTS
12	ROADWAY	PROP. LIGHT POLE	GALVANIZED STEEL, 35 FT., TENON MOUNT	EX. ANCHOR BOLTS ON STRUCTURE	35.0	1.0	LUM LED RDWY G (1.0)	FURNISH AND INSTALL NEW POLE WIRING, FUSES, FUSEHOLDERS, SURGE ARRESTORS, INSTALL ON EX. STRUCTURE MOUNTED ANCHOR BOLTS
13*	ROADWAY	EX. LIGHT POLE	ALUMINUM, 35 FT., TENON MOUNT	EX. METAL FOUNDATION	35.0		EX. LED	TO BE RE-USED IN PROPOSED PLANS
14*	ROADWAY	EX. LIGHT POLE	ALUMINUM, 35 FT., TENON MOUNT	EX. METAL FOUNDATION	35.0		EX. LED	TO BE RE-USED IN PROPOSED PLANS
15*	ROADWAY	EX. LIGHT POLE	ALUMINUM, 35 FT., TENON MOUNT	EX. METAL FOUNDATION	35.0		EX. LED	TO BE RE-USED IN PROPOSED PLANS
16*	ROADWAY	EX. LIGHT POLE	ALUMINUM, 35 FT., TENON MOUNT	EX. METAL FOUNDATION	35.0		EX. LED	TO BE RE-USED IN PROPOSED PLANS
17*	ROADWAY	EX. LIGHT POLE	ALUMINUM, 35 FT., TENON MOUNT	EX. METAL FOUNDATION	35.0		EX. LED	TO BE RE-USED IN PROPOSED PLANS

* LIGHT POLES 13, 14, 15, 16, 17 SHALL NOT BE INCLUDED IN THIS PROJECT AND ARE THE RESPONSIBILITY OF THE CITY OF HAVANA.

MODEL & MODEL NAMES
FILE NAMES & FILES

	USER NAME = \$USERS	DESIGNED - _____	REVISED - _____	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	PROPOSED LUMINAIRE SCHEDULE			F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	PLOT SCALE = \$SCALES	CHECKED - _____	REVISED - _____					315	(140-B-BR)BP,BRR	MASON	163	153
	PLOT DATE = \$DATES	DATE - _____	REVISED - _____		SCALE: _____ SHEET ____ OF ____ SHEETS STA. _____ TO STA. _____			CONTRACT NO. 68F50				
								ILLINOIS FED. AID PROJECT				



LEGEND

- EXISTING LUMINAIRE AND LIGHT POLE
- EXISTING LUMINAIRE ATTACHED TO STRUCTURE
- EXISTING JUNCTION BOX ATTACHED TO STRUCTURE
- EXISTING WATERWAY OBSTRUCTION WARNING LUMINAIRE (GREEN 360°)
- EXISTING WATERWAY OBSTRUCTION WARNING LUMINAIRE (RED 180°)
- EXISTING WOOD POLE
- EXISTING LIGHTING CONTROLLER
- EXISTING ELECTRICAL SERVICE
- EXISTING UNIT DUCT
- EXISTING CONDUIT ATTACHED TO STRUCTURE
- "R" REMOVAL ITEM
- EXISTING ROADWAY LUMINAIRE NUMBER
- EXISTING WATERWAY OBSTRUCTION WARNING LUMINAIRE LABEL

NOTE:
LIGHT POLES 13, 14, 15, 16, & 17 SHALL NOT
BE INCLUDED IN THIS PROJECT AND ARE THE
RESPONSIBILITY OF THE CITY OF HAVANA.

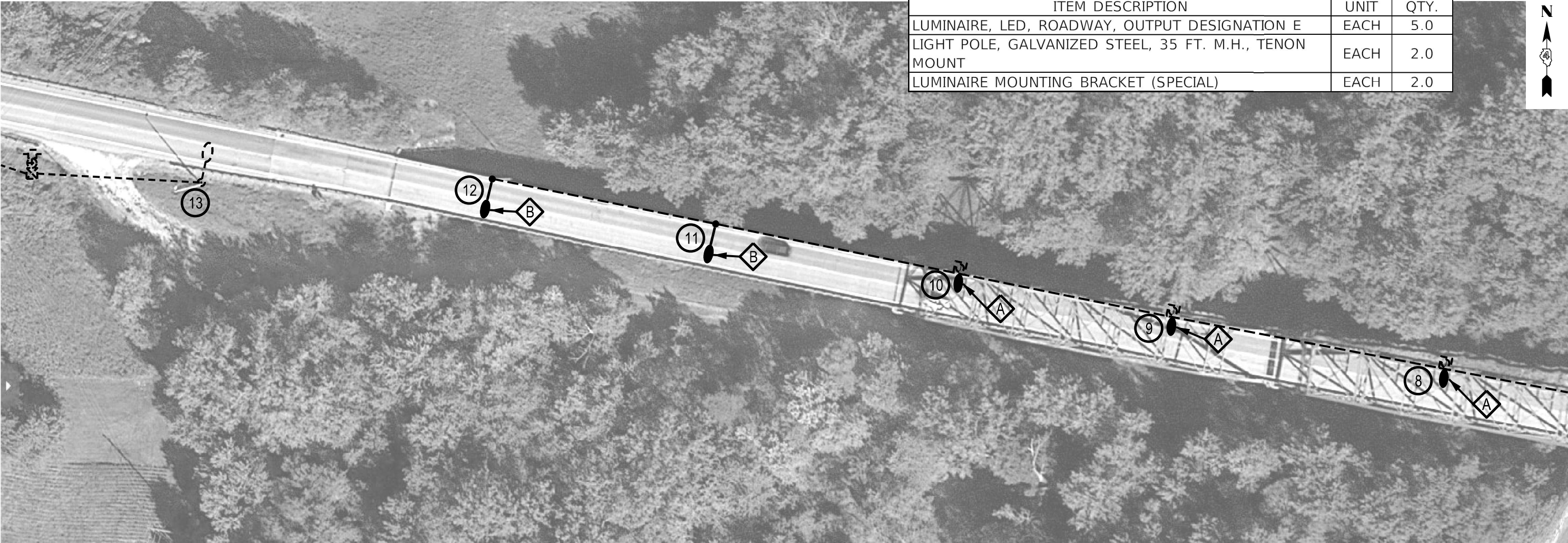
LIGHTING SHEET 9 OF 18

NOT TO SCALE

MODEL: \\MODEL\NAMES
FILE: \\NAMES\STYLES

	USER NAME = \$USERS	DESIGNED - _____	REVISED - _____	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	PROPOSED LIGHTING PLANS			F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	PLOT SCALE = \$SCALE\$	DRAWN - _____	REVISED - _____					315	(140-B-BR)BP,BRR	MASON	163	154
	PLOT DATE = \$DATE\$	CHECKED - _____	REVISED - _____		SCALE: _____ SHEET _____ OF _____ SHEETS STA. _____ TO STA. _____			CONTRACT NO. 68F50				
		DATE - _____	REVISED - _____					ILLINOIS FED. AID PROJECT				

BILL OF MATERIALS		
ITEM DESCRIPTION	UNIT	QTY.
LUMINAIRE, LED, ROADWAY, OUTPUT DESIGNATION E	EACH	5.0
LIGHT POLE, GALVANIZED STEEL, 35 FT. M.H., TENON MOUNT	EACH	2.0
LUMINAIRE MOUNTING BRACKET (SPECIAL)	EACH	2.0



NOTES:

1. THE CONTRACTOR SHALL FURNISH AND INSTALL NEW FUSES, FUSEHOLDER, POLE WIRING, SURGE ARRESTORS, ETC. FOR EACH PROPOSED LED LUMINAIRE. THE COST OF THIS WORK WILL NOT BE PAID FOR SEPARATELY, BUT SHALL BE INCLUDED IN THE BID PRICE OF THE PROPOSED LED LUMINAIRES.

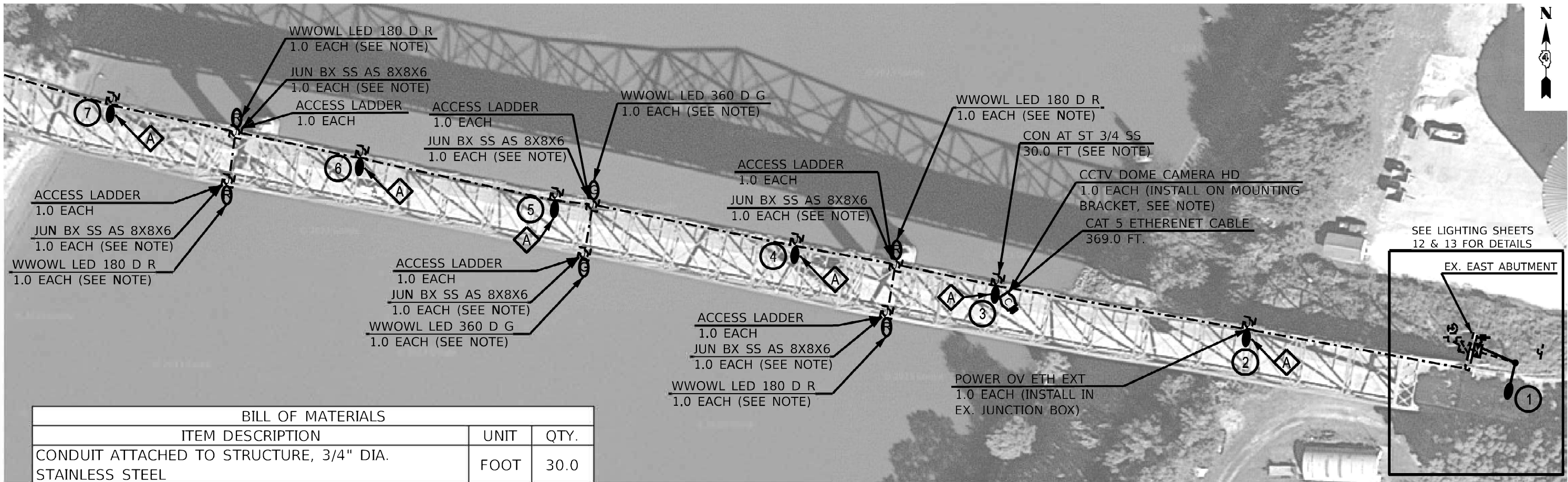
NOTE:

LIGHT POLES 13, 14, 15, 16, & 17 SHALL NOT BE INCLUDED IN THIS PROJECT AND ARE THE RESPONSIBILITY OF THE CITY OF HAVANA.

LEGEND	
	• LUM LED RDWY E (QTY. 1.0) • CONDUIT/JUNCTION BOX REPAIR/RE-ATTACHMENT (AS DIRECTED BY RESIDENT ENGINEER, PER ARTICLE 109.04.)
	• LUM LED RDWY E (QTY. 1.0) • LUMINAIRE MT BRKT SPL (QTY. 1.0) • LT P GS 35MH TEN MT (QTY. 1.0) - INSTALLED ON EX. ANCHOR BOLTS
	• LUM LED RDWY E (QTY. 1.0) • LUMINAIRE MT BRKT SPL (QTY. 1.0) • LT P GS 35MH TEN MT (QTY. 1.0) - INSTALLED ON EX. CONCRETE FOUNDATION

LEGEND			
	PROPOSED LED LUMINAIRE AND LIGHT POLE		PROPOSED CCTV CAMERA DOME, HD
	PROPOSED LED LUMINAIRE ATTACHED TO STRUCTURE		PROPOSED ELECTRICAL SERVICE
	EXISTING JUNCTION BOX ATTACHED TO STRUCTURE		PROPOSED PVC CONDUIT
	PROPOSED JUNCTION BOX ATTACHED TO STRUCTURE		PROPOSED CONDUIT ATTACHED TO STRUCTURE
	PROPOSED WATERWAY OBSTRUCTION WARNING LUMINAIRE (GREEN 360°)		EXISTING UNIT DUCT
	PROPOSED WATERWAY OBSTRUCTION WARNING LUMINAIRE (RED 180°)		EXISTING CONDUIT ATTACHED TO STRUCTURE
	EXISTING WOOD POLE		PROPOSED ROADWAY LUMINAIRE NUMBER
	PROPOSED LIGHTING CONTROLLER		PROPOSED WATERWAY OBSTRUCTION WARNING LUMINAIRE LABEL

	USER NAME = \$USERS	DESIGNED - _____	REVISED - _____	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	PROPOSED LIGHTING PLANS - CONTINUED	SCALE: _____	SHEET _____ OF _____ SHEETS	STA. _____ TO STA. _____	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	PLOT SCALE = \$SCALES	DRAWN - _____	REVISED - _____						315	(140-B-BR)BP,BRR	MASON	163	155
	PLOT DATE = \$DATES	CHECKED - _____	REVISED - _____						CONTRACT NO. 68F50				
		DATE - _____	REVISED - _____						ILLINOIS FED. AID PROJECT				



BILL OF MATERIALS		
ITEM DESCRIPTION	UNIT	QTY.
CONDUIT ATTACHED TO STRUCTURE, 3/4" DIA. STAINLESS STEEL	FOOT	30.0
JUNCTION BOX, STAINLESS STEEL, ATTACHED TO STRUCTURE, 8" X 8" X 6"	EACH	6.0
LUMINAIRE, LED, ROADWAY, OUTPUT DESIGNATION E	EACH	6.0
WATERWAY OBSTRUCTION WARNING LUMINAIRE, LED, 180 DEGREE RED	EACH	4.0
WATERWAY OBSTRUCTION WARNING LUMINAIRE, LED, 360 DEGREE GREEN	EACH	2.0
CLOSED CIRCUIT TELEVISION DOME CAMERA, HD	EACH	1.0
ACCESS LADDER	EACH	6.0
CAT 5 ETHERNET CABLE	FOOT	369.0
POWER OVER ETHERNET EXTENDER	EACH	1.0

LEGEND	
A	LUM LED RDWY E (QTY. 1.0)
	CONDUIT/JUNCTION BOX REPAIR/RE-ATTACHMENT (AS DIRECTED BY RESIDENT ENGINEER, PER ARTICLE 109.04.)
B	LUM LED RDWY E (QTY. 1.0)
	LUMINAIRE MT BRKT SPL (QTY. 1.0)
	LT P GS 35MH TEN MT (QTY. 1.0) - INSTALLED ON EX. ANCHOR BOLTS
C	LUM LED RDWY E (QTY. 1.0)
	LUMINAIRE MT BRKT SPL (QTY. 1.0)
	LT P GS 35MH TEN MT (QTY. 1.0) - INSTALLED ON EX. CONCRETE FOUNDATION

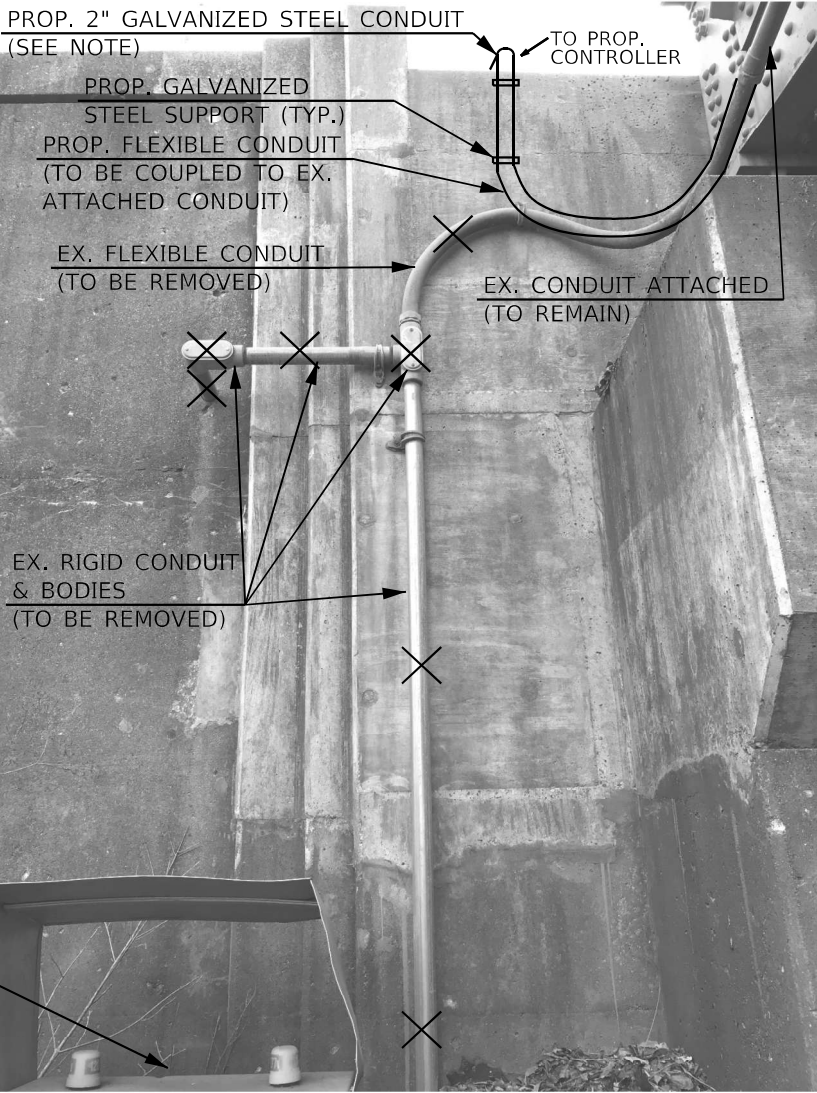
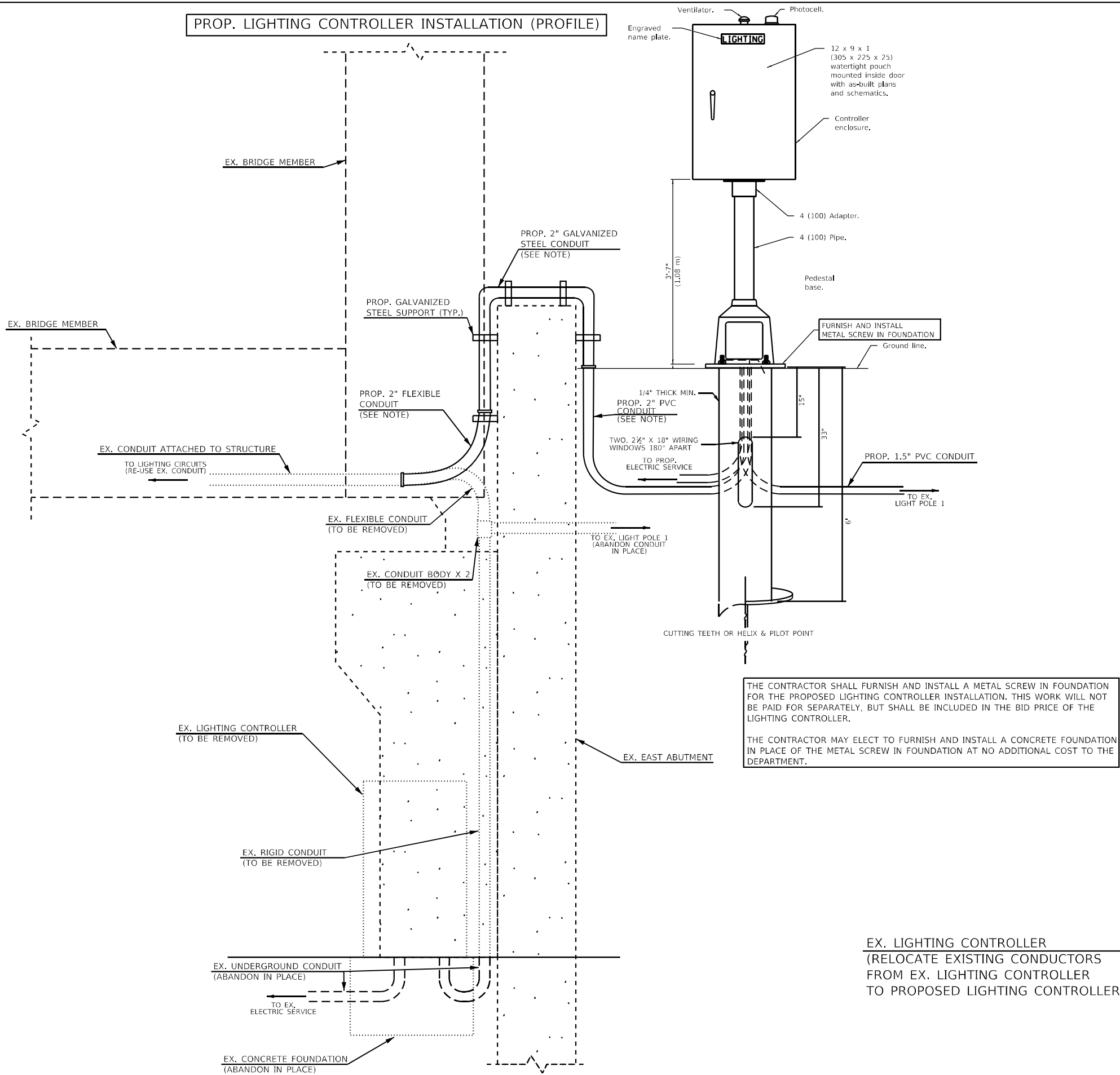
- NOTES:
- THE CONTRACTOR SHALL REMOVE BRUSH AS NEEDED TO INSTALL THE PROPOSED ITEMS. THIS WORK WILL NOT BE PAID FOR SEPARATELY BUT SHALL BE INCLUDED IN THE PROPOSED ITEMS.
 - THE CONTRACTOR SHALL FURNISH AND INSTALL NEW FUSES, FUSEHOLDER, POLE WIRING, SURGE ARRESTORS, ETC. FOR EACH PROPOSED LED LUMINAIRE. THE COST OF THIS WORK WILL NOT BE PAID FOR SEPARATELY, BUT SHALL BE INCLUDED IN THE PRICE OF THE PROPOSED LED LUMINAIRES.
 - THE CONTRACTOR SHALL RELOCATE THE EXISTING HIGHWAY LIGHTING AND WATERWAY OBSTRUCTION WARNING LIGHTING CONDUCTORS FROM THE EXISTING LIGHTING CONTROLLER TO THE PROPOSED LIGHTING CONTROLLER. THIS WORK WILL NOT BE PAID FOR SEPARATELY, BUT SHALL BE INCLUDED IN THE COST OF THE PROPOSED LIGHTING CONTROLLER.
 - THE CONTRACTOR SHALL INSTALL THE PROPOSED WATERWAY OBSTRUCTION WARNING LIGHTING EQUIPMENT AS SHOWN IN THE DETAIL ON LIGHTING SHEET 14. THIS WORK WILL NOT BE PAID FOR SEPARATELY, BUT SHALL BE INCLUDED IN THE COST OF THE PROPOSED WATERWAY OBSTRUCTION WARNING LUMINAIRES.
 - THE CONTRACTOR SHALL FURNISH AND INSTALL 3/4" STAINLESS STEEL CONDUIT FROM THE EX. JUNCTION BOX AT LIGHT 3 TO THE PROP. CCTV DOME CAMERA HD.
 - THE COST OF THE PROPOSED CAMERA MOUNTING BRACKET SHALL BE INCLUDED IN THE COST OF THE PROPOSED CCTV CAMERA DOME, HD.
 - THE CONTRACTOR SHALL FURNISH AND INSTALL THE PROPOSED NAVIGATION LIGHT ACCESS PLATFORM AND ALL ASSOCIATED WORK AS SHOWN ON LIGHTING SHEET 14. THE COST OF THIS WORK WILL NOT BE PAID FOR SEPARATELY, BUT SHALL BE INCLUDED IN THE COST OF THE ACCESS LADDERS.

LEGEND	
	PROPOSED LED LUMINAIRE AND LIGHT POLE
	PROPOSED LED LUMINAIRE ATTACHED TO STRUCTURE
	EXISTING JUNCTION BOX ATTACHED TO STRUCTURE
	PROPOSED JUNCTION BOX ATTACHED TO STRUCTURE
	PROPOSED WATERWAY OBSTRUCTION WARNING LUMINAIRE (GREEN 360°)
	PROPOSED WATERWAY OBSTRUCTION WARNING LUMINAIRE (RED 180°)
	EXISTING WOOD POLE
	PROPOSED LIGHTING CONTROLLER
	PROPOSED CCTV CAMERA DOME, HD
	PROPOSED ELECTRICAL SERVICE
	PROPOSED PVC CONDUIT
	PROPOSED CONDUIT ATTACHED TO STRUCTURE
	EXISTING UNIT DUCT
	EXISTING CONDUIT ATTACHED TO STRUCTURE
	PROPOSED ROADWAY LUMINAIRE NUMBER
	PROPOSED WATERWAY OBSTRUCTION WARNING LUMINAIRE LABEL

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
315	(140-B-BR)BP,BRR	MASON	163	156
CONTRACT NO. 68F50				
ILLINOIS FED. AID PROJECT				

MODEL: Default
FILE NAME: 302ENW1W0RD0005P1.AVIHanson.dgn
68F50 Havana Bridge/Havana Bridge 02-05-24.dgn

PROP. LIGHTING CONTROLLER INSTALLATION (PROFILE)



LIGHTING SHEET 12 OF 18

NOT TO SCALE

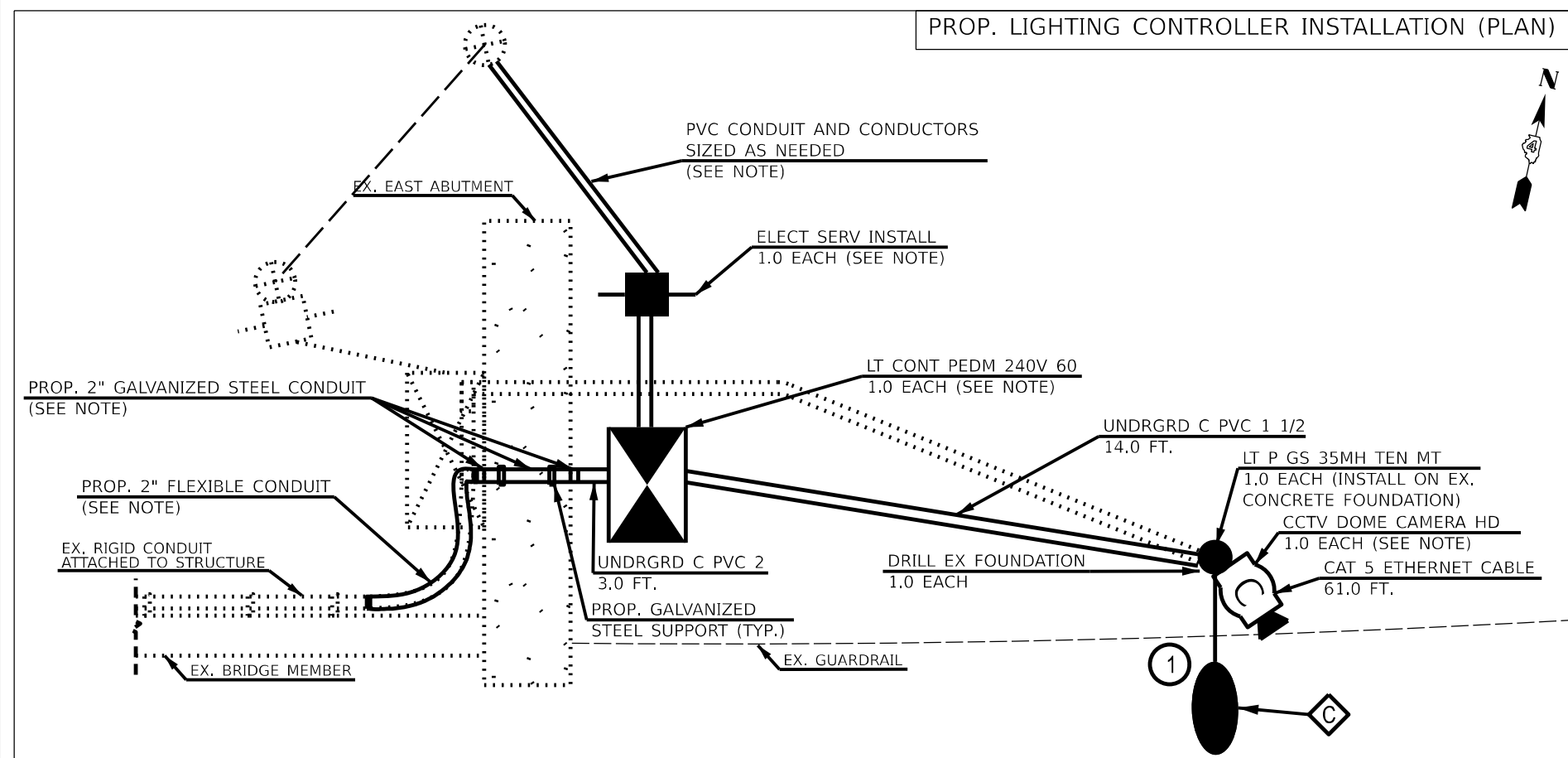
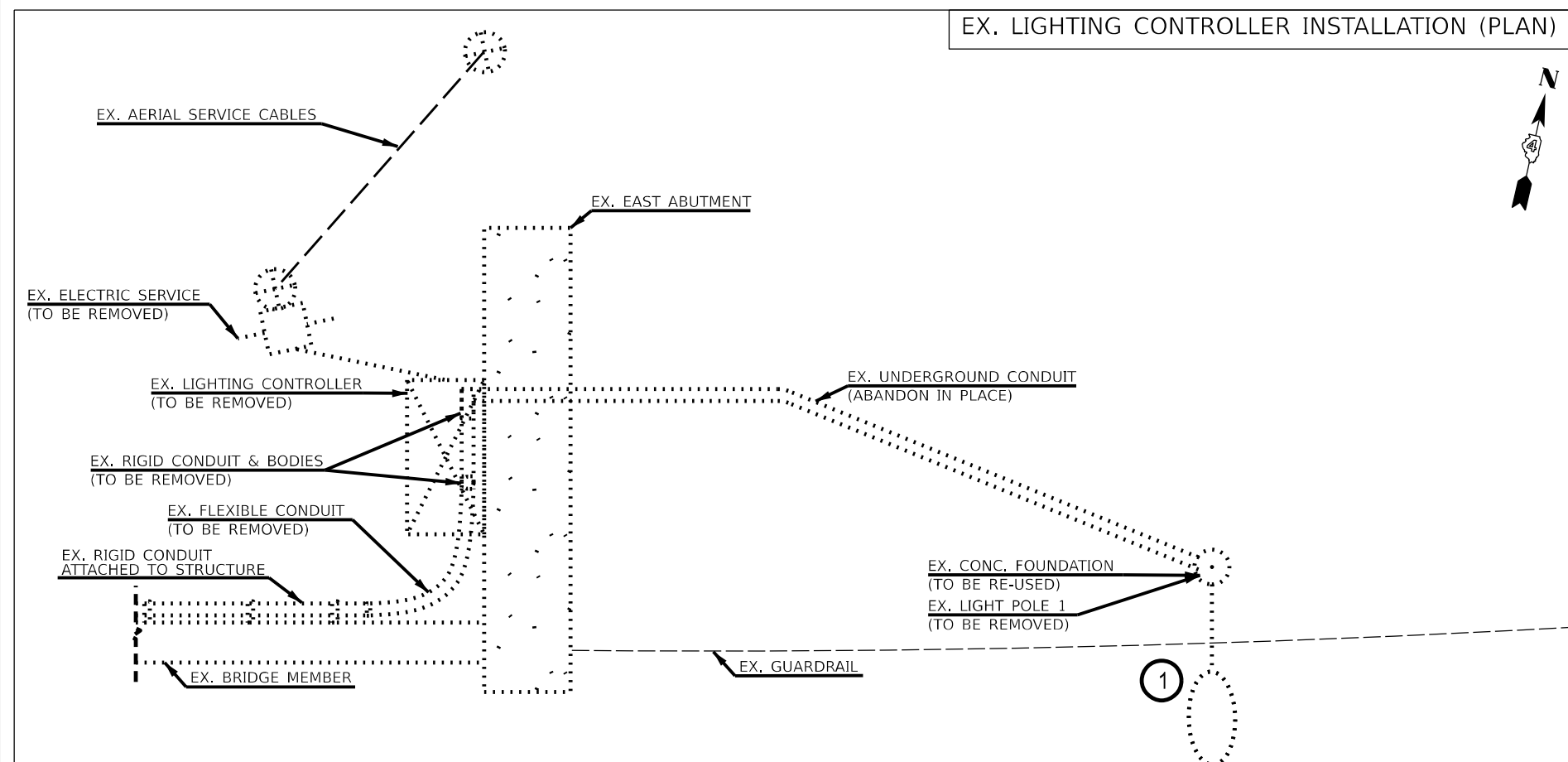
USER NAME = trevor.hanson	DESIGNED -	REVISED -
DRAWN -	REVISED -	
PLOT SCALE = 28,0523 * / in.	CHECKED -	REVISED -
PLOT DATE = 4/15/2025	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PROPOSED LIGHTING CONTROLLER INSTALLATION (PROFILE)

SCALE: SHEET OF SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
315	(140-B-BR)BP,BRR	MASON	163	157
CONTRACT NO. 68F50				
ILLINOIS FED. AID PROJECT				

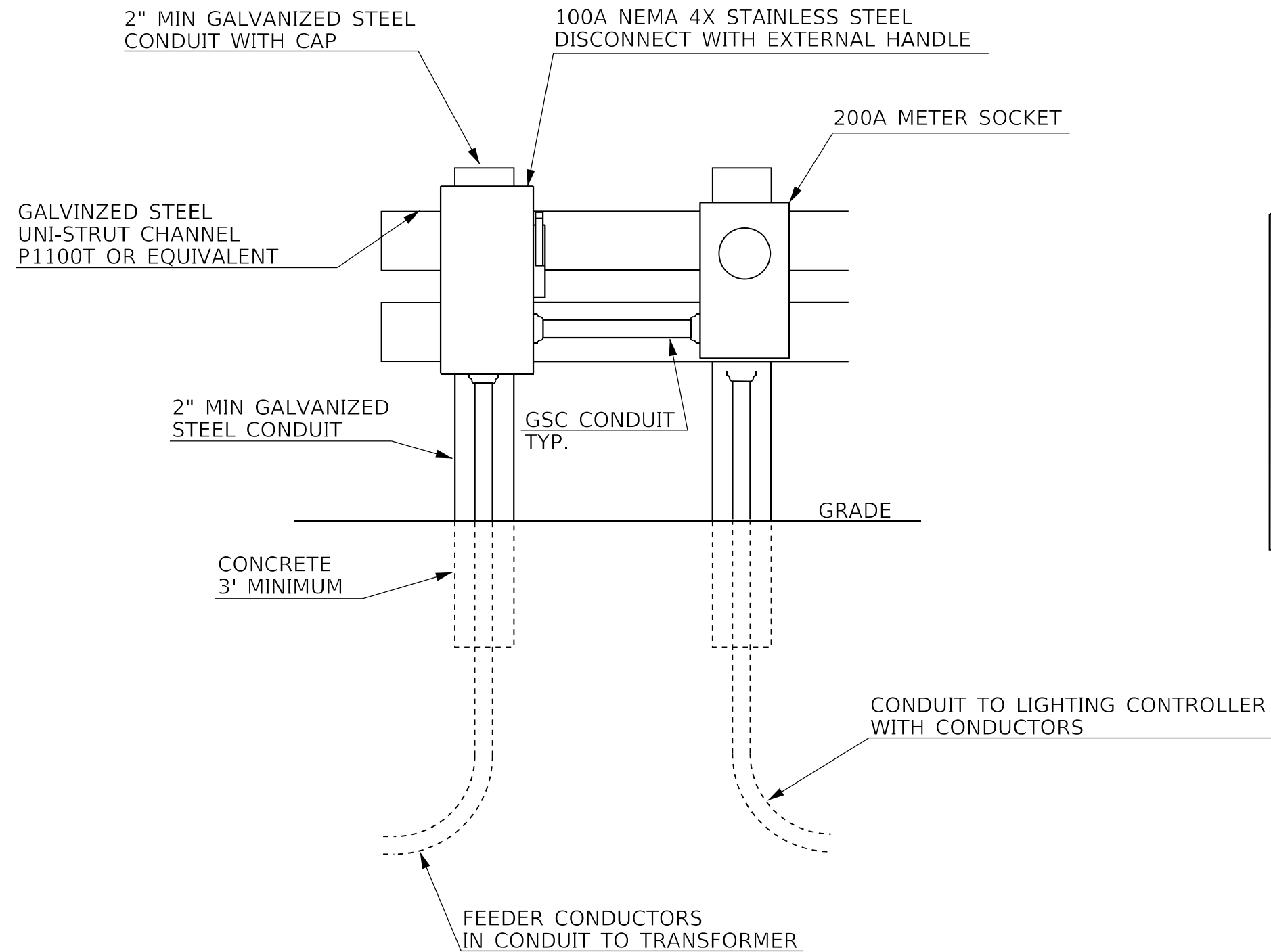


BILL OF MATERIALS		
ITEM DESCRIPTION	UNIT	QTY.
ELECTRIC SERVICE INSTALLATION	EACH	1.0
UNDERGROUND CONDUIT, PVC, 1 1/2" DIA.	FOOT	14.0
UNDERGROUND CONDUIT, PVC, 2" DIA.	FOOT	3.0
ELECTRIC CABLE IN CONDUIT, 600V (XLP-TYPE USE) 1/C NO. 8	FOOT	69.0
LUMINAIRE, LED, ROADWAY, OUTPUT DESIGNATION E	EACH	1.0
LIGHTING CONTROLLER, PEDESTAL MOUNTED, 240VOLT, 60AMP	EACH	1.0
LIGHT POLE, GALVANIZED STEEL, 35 FT. M.H., TENON MOUNT	EACH	1.0
DRILL EXISTING FOUNDATION	EACH	1.0
CLOSED CIRCUIT TELEVISION DOME CAMERA, HD	EACH	1.0
CAT 5 ETHERNET CABLE	FOOT	61.0
LUMINAIRE MOUNTING BRACKET (SPECIAL)	EACH	1.0

NOTES:

1. THE CONTRACTOR SHALL REMOVE BRUSH AS NEEDED TO INSTALL THE PROPOSED ITEMS. THIS WORK WILL NOT BE PAID FOR SEPARATELY BUT SHALL BE INCLUDED IN THE PROPOSED ITEMS.
2. THE CONTRACTOR SHALL FURNISH AND INSTALL NEW FUSES, FUSEHOLDER, POLE WIRING, SURGE ARRESTORS, ETC. FOR EACH PROPOSED LED LUMINAIRE. THE COST OF THIS WORK WILL NOT BE PAID FOR SEPARATELY, BUT SHALL BE INCLUDED IN THE BID PRICE OF THE PROPOSED LED LUMINAIRES.
3. THE CONTRACTOR SHALL RELOCATE THE EXISTING HIGHWAY LIGHTING AND WATERWAY OBSTRUCTION WARNING LIGHTING CONDUCTORS FROM THE EXISTING LIGHTING CONTROLLER TO THE PROPOSED LIGHTING CONTROLLER. THIS WORK WILL NOT BE PAID FOR SEPARATELY, BUT SHALL BE INCLUDED IN THE COST OF THE PROPOSED LIGHTING CONTROLLER.
4. THE COST OF THE PROPOSED CAMERA MOUNTING BRACKET SHALL BE INCLUDED IN THE COST OF THE PROPOSED CCTV DOME CAMERA, HD.
5. THE COST OF THE UNDERGROUND SERVICE CABLE/ CONDUIT FROM THE EXISTING TRANSFORMER TO THE PROPOSED ELECTRICAL SERVICE AND SERVICE CABLE/ CONDUIT FROM THE ELECTRICAL SERVICE TO THE LIGHTING CONTROLLER SHALL BE INCLUDED IN THE COST OF THE PROPOSED ELECTRICAL SERVICE INSTALLATION.
6. THE CONTRACTOR SHALL VERIFY UTILITY COMPANY SERVICE INSTALLATION REQUIREMENTS, THERE WILL BE NO ADDITIONAL COMPENSATION TO ACCOMODATE ADDITIONAL REQUIREMENTS NOT SHOWN IN THE PLANS.
7. THE PROPOSED ELECTRICAL SERVICE INSTALLATION SHALL BE LOCATED WITHIN 10 FT. OF THE PROPOSED LIGHTING CONTROLLER CABINET AND SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE LATEST UTILITY COMPANY REQUIREMENTS.
8. THE CONTRACTOR SHALL FURNISH AND INSTALL ALL RIGID AND FLEXIBLE CONDUIT, CONNECTORS, SUPPORTS, HARDWARE, ETC. AS REQUIRED TO RELOCATE THE EXISTING HIGHWAY LIGHTING AND WATERWAY OBSTRUCTION WARNING LIGHTING CIRCUITS TO THE PROPOSED LIGHTING CONTROLLER. THE COST OF THIS WORK WILL NOT BE PAID FOR SEPARATELY, BUT SHALL BE INCLUDED IN THE COST OF THE PROPOSED LIGHTING CONTROLLER.

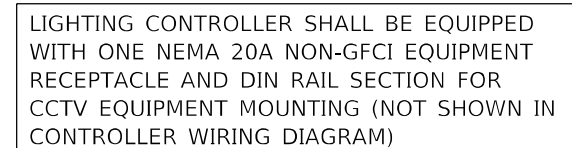
ELECTRIC SERVICE INSTALLATION



- NOTES:
1. THE COST OF THE UNDERGROUND SERVICE CABLE/ CONDUIT FROM THE EXISTING TRANSFORMER TO THE PROPOSED ELECTRICAL SERVICE AND SERVICE CABLE/ CONDUIT FROM THE ELECTRICAL SERVICE TO THE LIGHTING CONTROLLER SHALL BE INCLUDED IN THE COST OF THE PROPOSED ELECTRICAL SERVICE INSTALLATION.
 2. THE CONTRACTOR SHALL VERIFY UTILITY COMPANY SERVICE INSTALLATION REQUIREMENTS, THERE WILL BE NO ADDITIONAL COMPENSATION TO ACCOMODATE ADDITIONAL REQUIREMENTS NOT SHOWN IN THE PLANS.
 3. THE PROPOSED ELECTRICAL SERVICE INSTALLATION SHALL BE LOCATED WITHIN 10 FT. OF THE PROPOSED LIGHTING CONTROLLER CABINET AND SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE LATEST UTILITY COMPANY REQUIREMENTS.

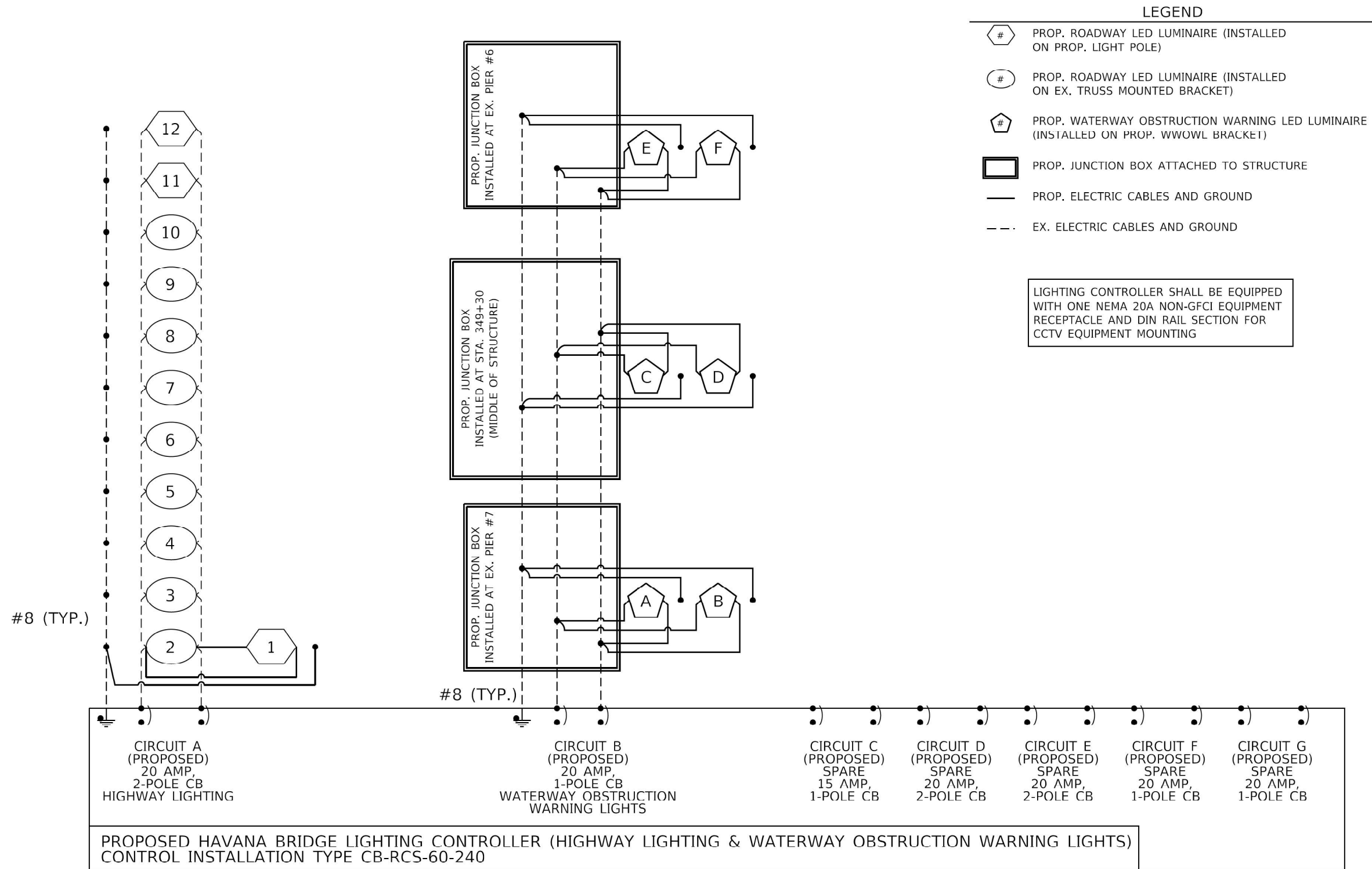
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	USER NAME = trevor.hanson	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	ELECTRIC SERVICE DETAIL			F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	PLOT SCALE = 28,0523 * / in.	DRAWN -	REVISED -					315	(140-B-BR)BP,BRR	MASON	163	160
	PLOT DATE = 4/15/2025	CHECKED -	REVISED -		SCALE: SHEET OF SHEETS STA. TO STA.			CONTRACT NO. 68F50				
		DATE -	REVISED -					ILLINOIS FED. AID PROJECT				



FILE NAME: S:\CADD\PROJECTS\2025\25-07-01\25-07-01.dwg	USER NAME = trevor.hanson	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	LIGHTING CONTROLLER DETAIL					F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
		DRAWN -	REVISED -							315	(140-B-BR)BP,BRR	MASON	163	161
	PLOT SCALE = 28,0523 ' / in.	CHECKED -	REVISED -											
	PLOT DATE = 4/15/2025	DATE -	REVISED -											
	SCALE:					SHEET	OF	SHEETS	STA.	TO STA.				
						ILLINOIS FED. AID PROJECT CONTRACT NO. 68F50								

MODEL Default
FILE NAME: S:\ENR\WV\ORD\ESP\ANN\Hanson\# 68F50 Havana Bridge\Havana Bridge 02-05-24.dgn



LIGHTING SHEET 17 OF 18

NOT TO SCALE

STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	LIGHTING CONTROLLER CIRCUIT DIAGRAM		F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	SCALE: SHEET OF SHEETS STA. TO STA.		315	(140-B-BR)BP,BRR	MASON	163	162
			CONTRACT NO. 68F50				
			ILLINOIS FED. AID PROJECT				
USER NAME = trevor.hanson	DESIGNED -	REVISED -					
PLOT SCALE = 28.0523 ' / in.	DRAWN -	REVISED -					
PLOT DATE = 4/15/2025	CHECKED -	REVISED -					
	DATE -	REVISED -					

Luminaire Performance Table

Project

Date	Contract Number	Section Number	County
01/08/2024	68F50	N/A	MASON
Marked Route Number		Municipality	
US - 136		N/A	

Roadway

Lane Width	#of Lanes	Median Width	I.E.S Surface Classification	0-Zero Value
12	1	N/A	R3	0.07

Structure

Mounting Height	Arm Length	Set Back	Number of Luminares (Highmast & Sign Lighting Only)
35 FT	4 FT	2 FT	N/A

Luminaire

Description	I.E.S. Lateral Distribution	I.E.S. Vertical Distribution	
ROADWAY LUMINAIRE, LED, OUTPUT DESIGNATION E	TYPE III	MEDIUM	
Total Light Loss Factor (LLF)	BUG Rating	Shields	Dimming Protocol
0.7	U = 0	N/A	10V

Layout

Spacing (to Nearest 5 Ft) Configuration (Opposite, Staggered, 1 Sided, or Median)	
150 FT	SINGLE SIDED

Performance

Average Illuminance, E _{AVE} (fc)	Uniformity Ratio, E _{AVE} /E _{MIN}		
0.6	3.0		
Average Luminance, L _{AVE} (cd/m ²)	Uniformity Ratio, L _{AVE} /L _{MIN}	Uniformity Ratio, L _{MAX} /L _{MIN}	Veiling Luminance Ratio, L _v /L _{MIN}
N/A	N/A	N/A	0.3±1

Light Trespass

Distance to ROW (behind pole)	Max. Horizontal Illuminance at ROW, E	Max. Vertical Illuminance at ROW, E
N/A	N/A	N/A

Notes

1. Set Back is from Edge of Pavement (white line) except for sign luminaires when it is vertical and horizontal distance from the sign to the luminaire.
2. Lighting calculations shall be performed with all luminaires oriented toward and perpendicular to roadway.
3. Total Light Loss Factor (LLF) = the product of "Lumen Maintenance" (LLD) = 0.9, "Dirt Depreciation" (LDD) = 0.8, and "Equipment Factors" (EF) = 0.95.
4. Performance requirements shall be the minimum acceptable standards of photometric performance for the luminaire, based on the given conditions above.

CALCULATIONS ARE TO BE PERFORMED IN ONE DIRECTION ONLY.

COMPLIANCE WITH PERFORMANCE CRITERIA SHALL BE HELD TO ONE SIGNIFICATN DIGIT.